

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032525\  
 Data File : VX045435.D  
 Acq On : 25 Mar 2025 13:12  
 Operator : JC/MD  
 Sample : Q1608-10DL 4X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DUP08-20250318DL

Quant Time: Mar 26 01:36:35 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022825W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 28 06:45:16 2025  
 Response via : Initial Calibration

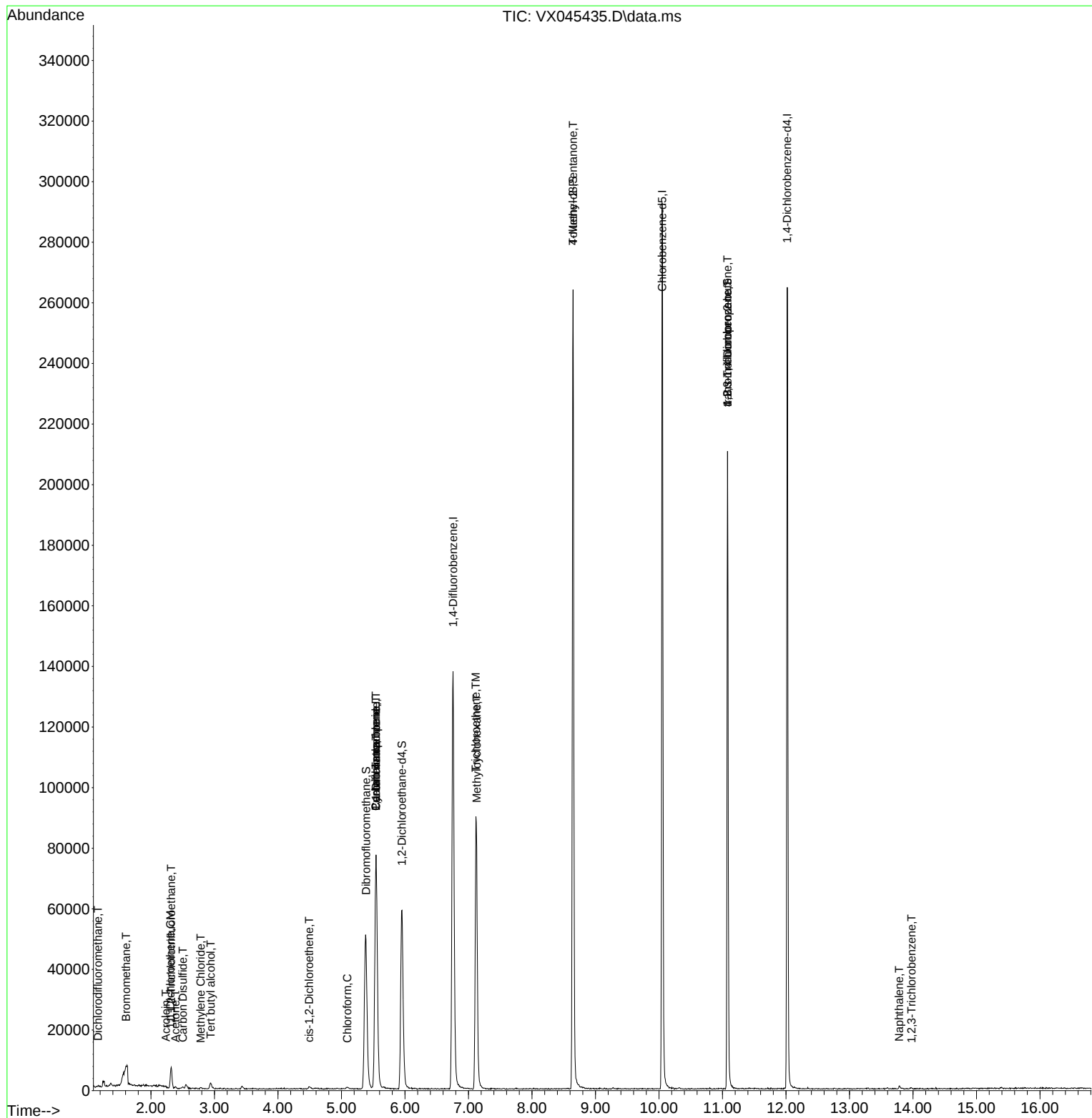
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 5.544  | 168            | 66948    | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114            | 133107   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.049 | 117            | 120920   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152            | 49927    | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65             | 58279    | 54.727     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 125 | Recovery | = 109.460% |        |          |
| 35) Dibromofluoromethane      | 5.385  | 113            | 43017    | 48.331     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 96.660%  |        |          |
| 50) Toluene-d8                | 8.647  | 98             | 154249   | 47.803     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 86 - 113 | Recovery | = 95.600%  |        |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95             | 53940    | 50.447     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 77 - 121 | Recovery | = 100.900% |        |          |
| Target Compounds              |        |                |          |            |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.167  | 85             | 314      | 0.373      | ug/l   | 97       |
| 5) Bromomethane               | 1.605  | 94             | 163      | 0.405      | ug/l # | 3        |
| 9) 1,1,2-Trichlorotrifluo...  | 2.319  | 101            | 2331     | 2.996      | ug/l   | 97       |
| 11) Tert butyl alcohol        | 2.941  | 59             | 1296     | 6.425      | ug/l # | 73       |
| 12) 1,1-Dichloroethene        | 2.307  | 96             | 581      | 0.706      | ug/l # | 76       |
| 13) Acrolein                  | 2.233  | 56             | 125      | 0.536      | ug/l # | 73       |
| 16) Acetone                   | 2.386  | 43             | 470      | 0.951      | ug/l # | 81       |
| 17) Carbon Disulfide          | 2.502  | 76             | 628      | 0.287      | ug/l # | 77       |
| 20) Methylene Chloride        | 2.782  | 84             | 216      | 0.221      | ug/l # | 46       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96             | 386      | 0.385      | ug/l   | 92       |
| 30) Chloroform                | 5.093  | 83             | 564      | 0.340      | ug/l   | 95       |
| 31) Cyclohexane               | 5.544  | 56             | 2155     | 1.487      | ug/l # | 32       |
| 36) 1,1-Dichloropropene       | 5.544  | 75             | 6584     | 5.394      | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.544  | 117            | 7839     | 6.326      | ug/l # | 15       |
| 39) Methylcyclohexane         | 7.129  | 83             | 459      | 0.314      | ug/l # | 1        |
| 44) Trichloroethene           | 7.117  | 130            | 33559    | 37.080     | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43             | 850      | 0.544      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75             | 31171    | 26.824     | ug/l # | 36       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75             | 31171    | 91.797     | ug/l # | 6        |
| 95) Naphthalene               | 13.780 | 128            | 1247     | 0.346      | ug/l # | 87       |
| 96) 1,2,3-Trichlorobenzene    | 13.975 | 180            | 274      | 0.277      | ug/l # | 80       |

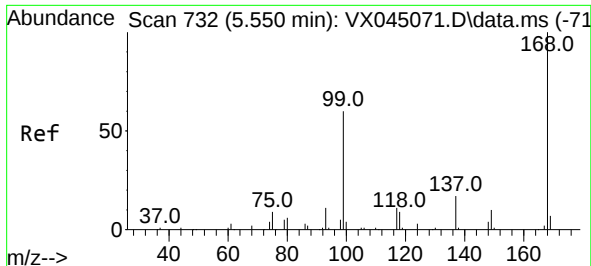
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Feb 28 06:45:16 2025  
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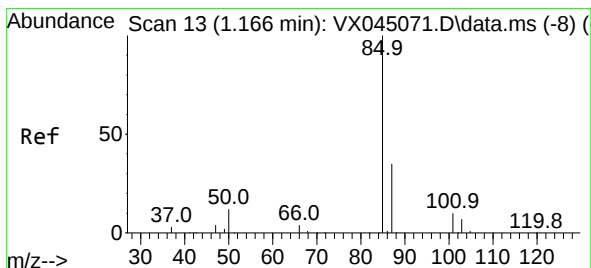
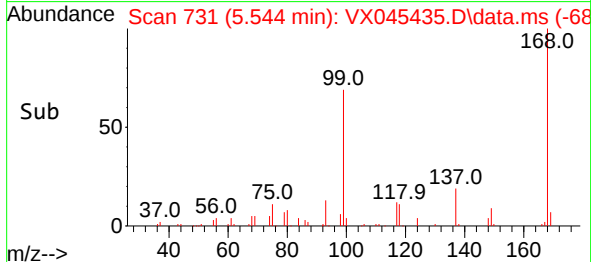
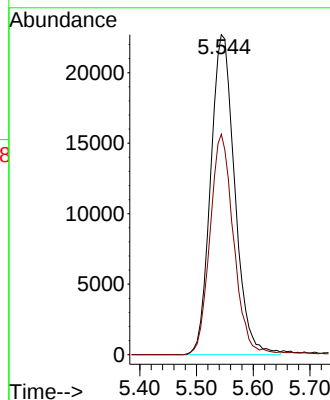
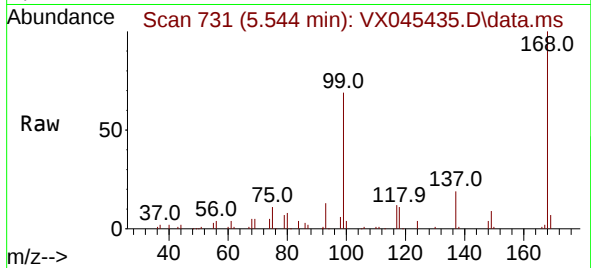




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

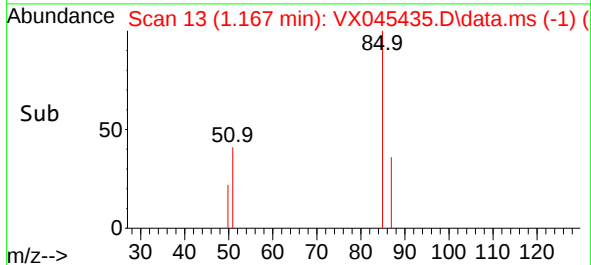
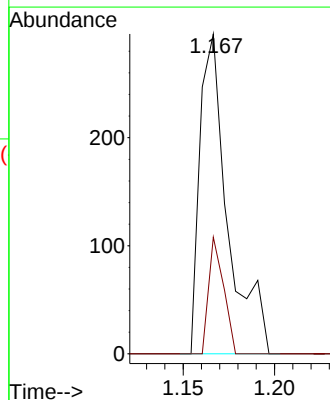
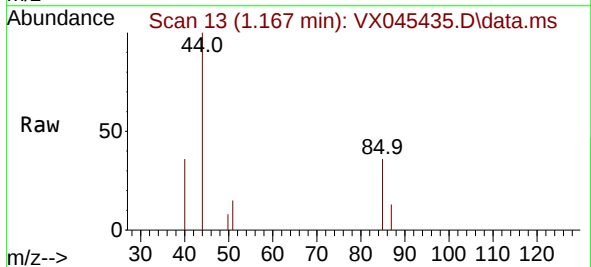
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP08-20250318DL

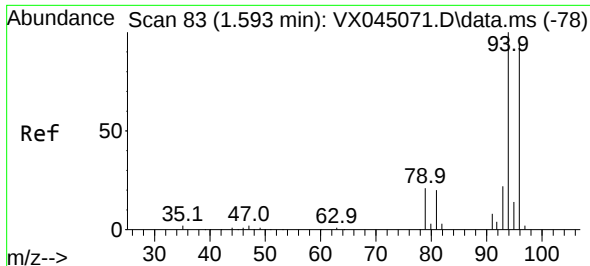
Tgt Ion:168 Resp: 66948  
Ion Ratio Lower Upper  
168 100  
99 68.9 48.2 72.4



#2  
Dichlorodifluoromethane  
Concen: 0.373 ug/l  
RT: 1.167 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

Tgt Ion: 85 Resp: 314  
Ion Ratio Lower Upper  
85 100  
87 36.5 17.4 52.3

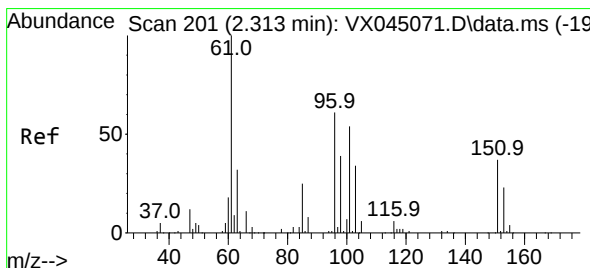
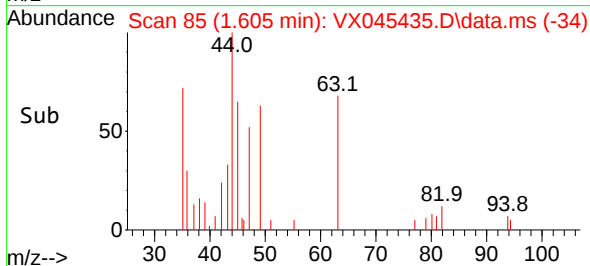
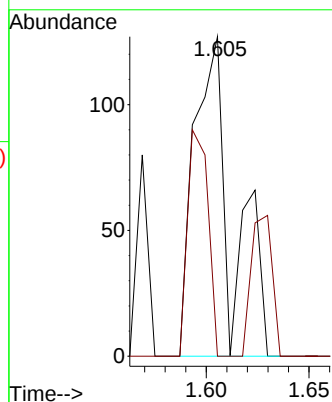
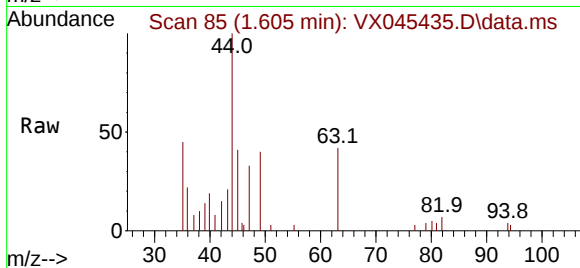




#5  
Bromomethane  
Concen: 0.405 ug/l  
RT: 1.605 min Scan# 81  
Delta R.T. 0.012 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

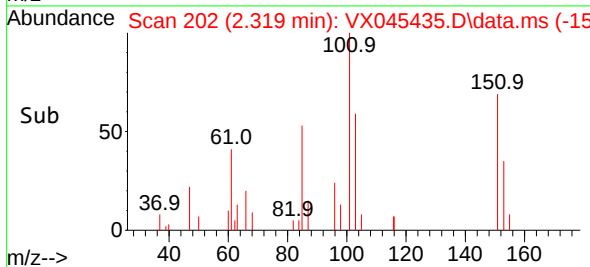
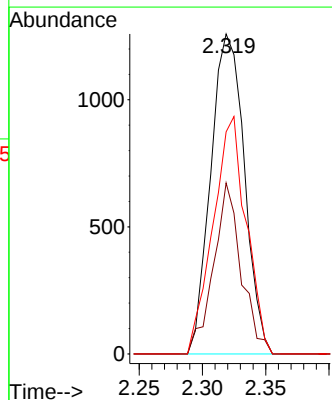
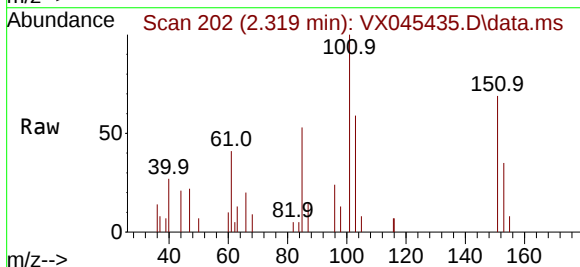
Instrument :  
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ClientSampleId :  
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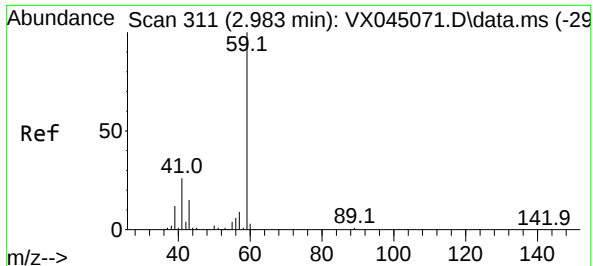
Tgt Ion: 94 Resp: 163  
Ion Ratio Lower Upper  
94 100  
96 0.0 75.0 112.4#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 2.996 ug/l  
RT: 2.319 min Scan# 202  
Delta R.T. 0.006 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

Tgt Ion: 101 Resp: 2331  
Ion Ratio Lower Upper  
101 100  
85 44.0 36.2 54.4  
151 73.2 56.4 84.6

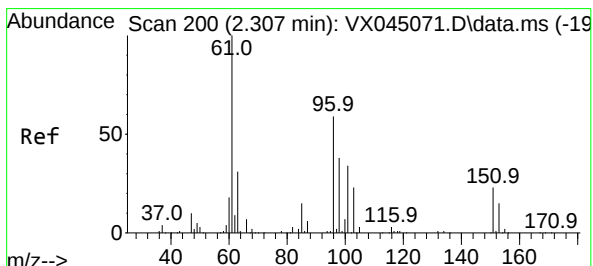
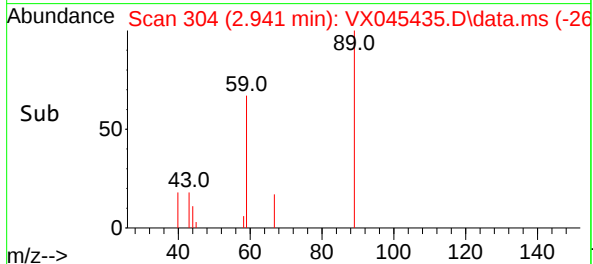
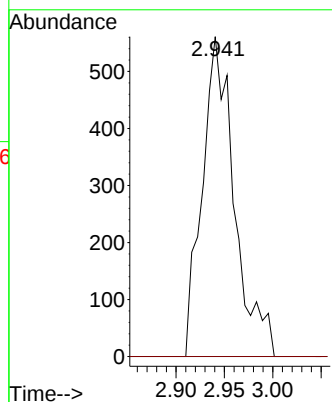
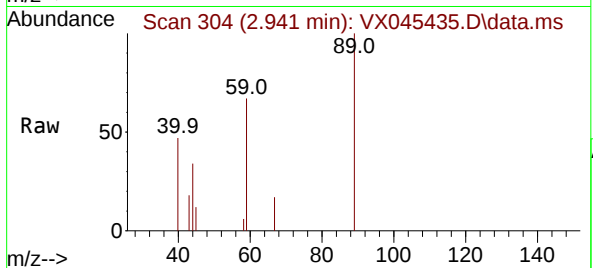




#11  
Tert butyl alcohol  
Concen: 6.425 ug/l  
RT: 2.941 min Scan# 304  
Delta R.T. -0.043 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

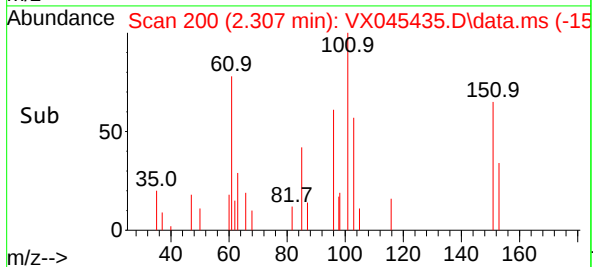
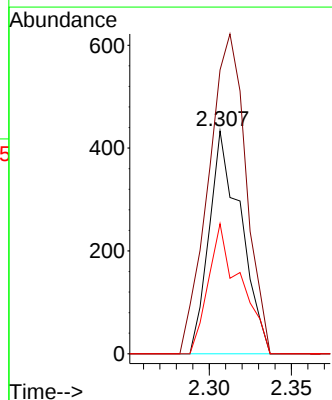
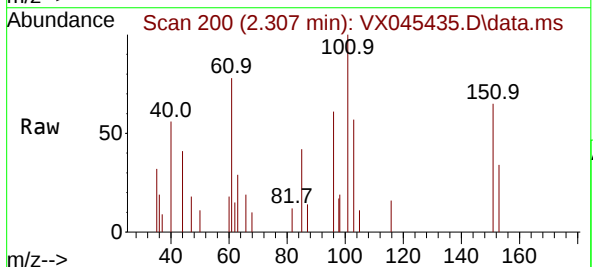
Instrument :  
MSVOA\_X  
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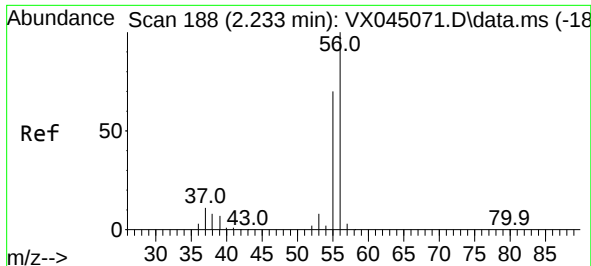
Tgt Ion: 59 Resp: 1296  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#



#12  
1,1-Dichloroethene  
Concen: 0.706 ug/l  
RT: 2.307 min Scan# 200  
Delta R.T. 0.000 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

Tgt Ion: 96 Resp: 581  
Ion Ratio Lower Upper  
96 100  
61 127.5 134.6 202.0#  
98 58.4 51.0 76.6

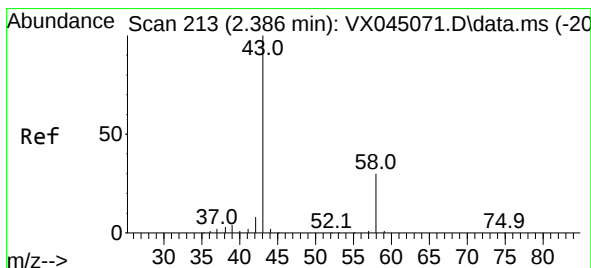
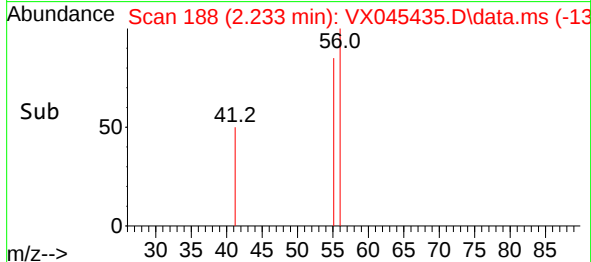
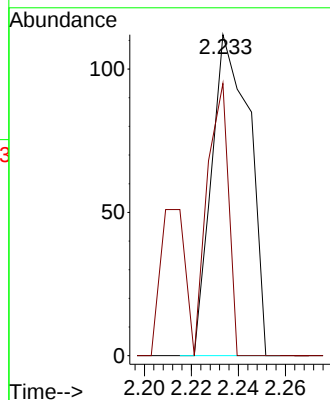
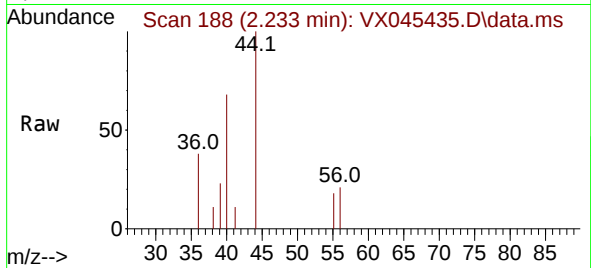




#13  
Acrolein  
Concen: 0.536 ug/l  
RT: 2.233 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

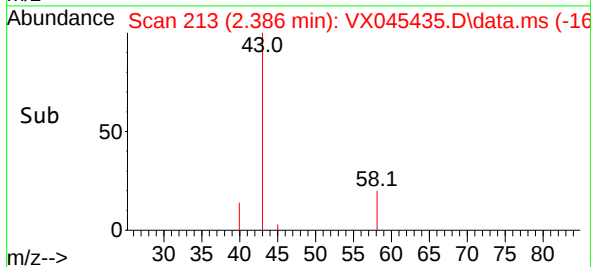
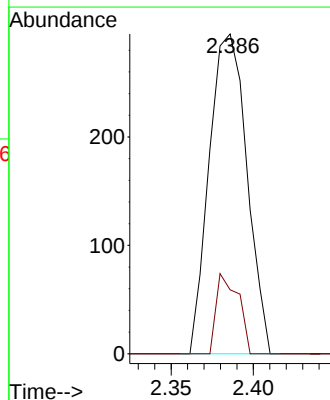
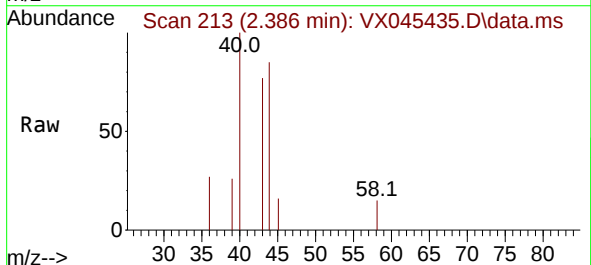
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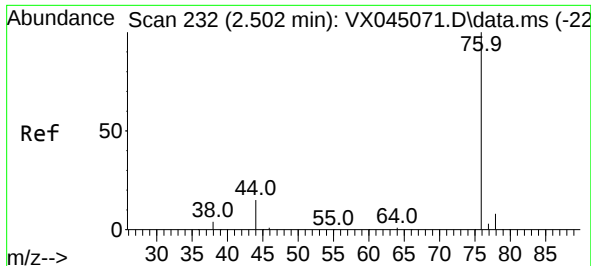
Tgt Ion: 56 Resp: 125  
Ion Ratio Lower Upper  
56 100  
55 48.0 56.2 84.4#



#16  
Acetone  
Concen: 0.951 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. 0.000 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

Tgt Ion: 43 Resp: 470  
Ion Ratio Lower Upper  
43 100  
58 20.0 24.2 36.4#





#17

Carbon Disulfide

Concen: 0.287 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX045435.D

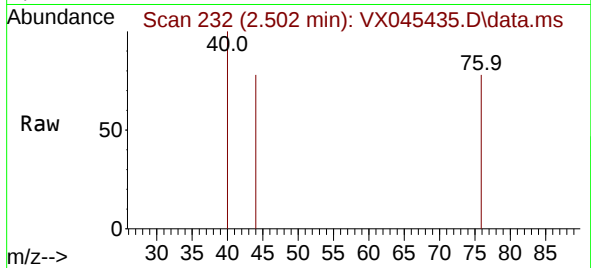
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Instrument :

MSVOA\_X

ClientSampleId :

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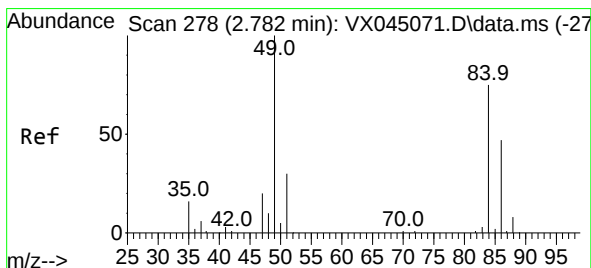
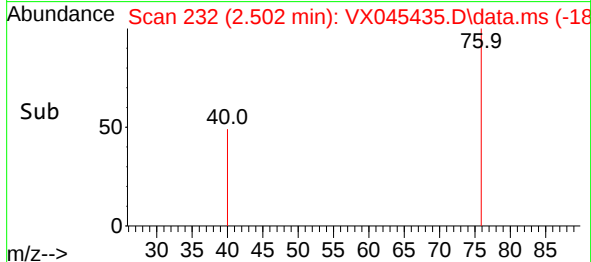
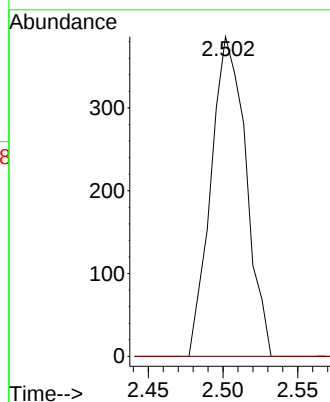


Tgt Ion: 76 Resp: 628

Ion Ratio Lower Upper

76 100

78 0.0 6.6 9.8#



#20

Methylene Chloride

Concen: 0.221 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045435.D

Acq: 25 Mar 2025 13:12

Tgt Ion: 84 Resp: 216

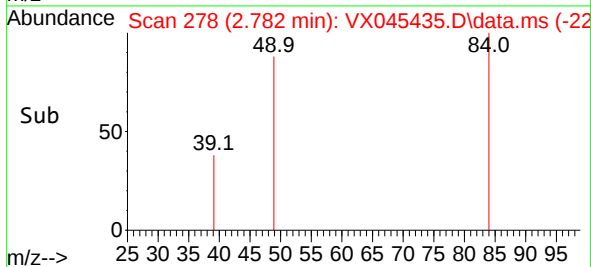
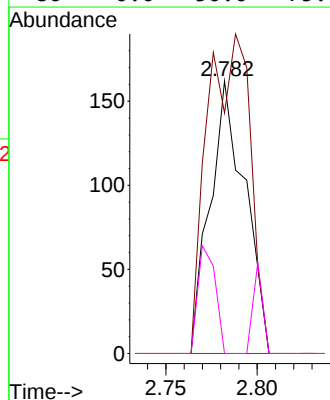
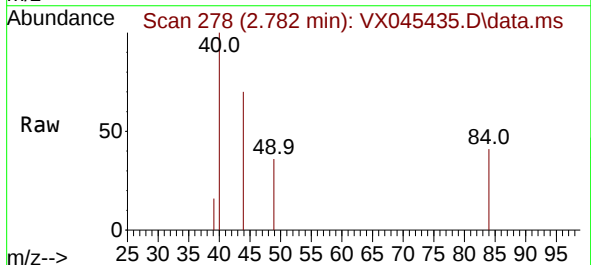
Ion Ratio Lower Upper

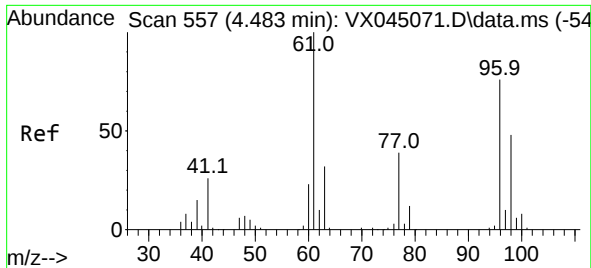
84 100

49 88.3 106.5 159.7#

51 0.0 32.1 48.1#

86 0.0 50.0 75.0#

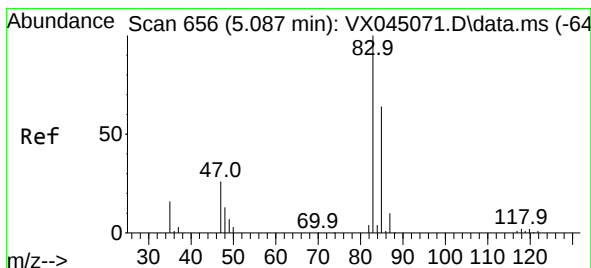
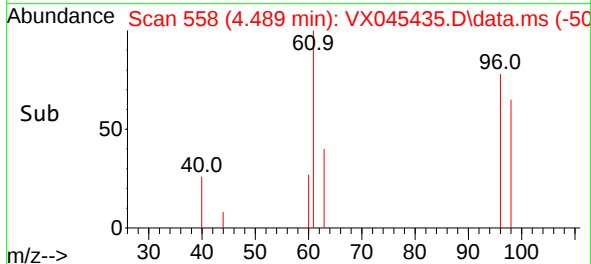
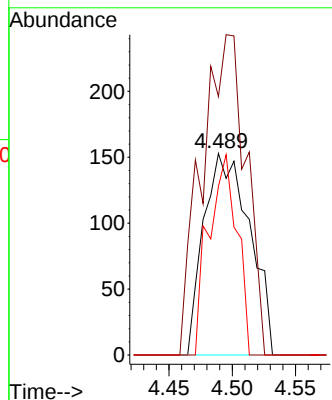
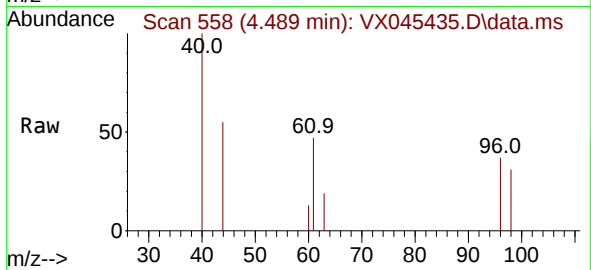




#27  
 cis-1,2-Dichloroethene  
 Concen: 0.385 ug/l  
 RT: 4.489 min Scan# 51  
 Delta R.T. 0.006 min  
 Lab File: VX045435.D  
 Acq: 25 Mar 2025 13:12

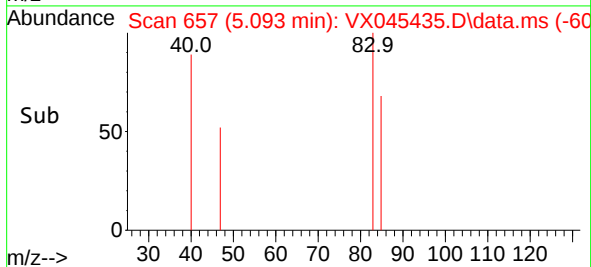
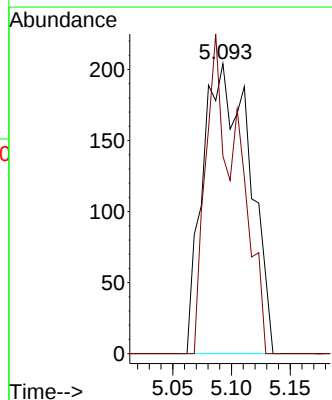
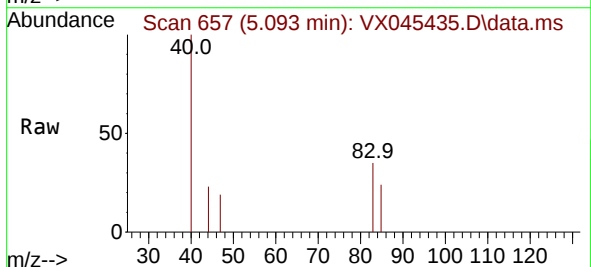
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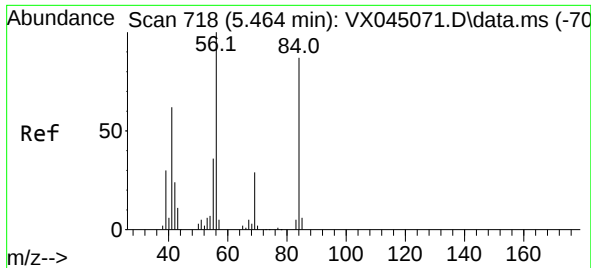
Tgt Ion: 96 Resp: 386  
 Ion Ratio Lower Upper  
 96 100  
 61 153.4 0.0 283.2  
 98 61.7 0.0 128.0



#30  
 Chloroform  
 Concen: 0.340 ug/l  
 RT: 5.093 min Scan# 657  
 Delta R.T. 0.006 min  
 Lab File: VX045435.D  
 Acq: 25 Mar 2025 13:12

Tgt Ion: 83 Resp: 564  
 Ion Ratio Lower Upper  
 83 100  
 85 68.1 51.4 77.2

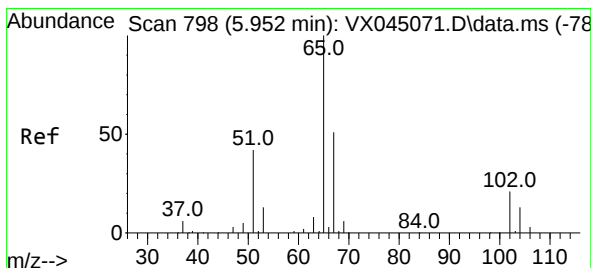
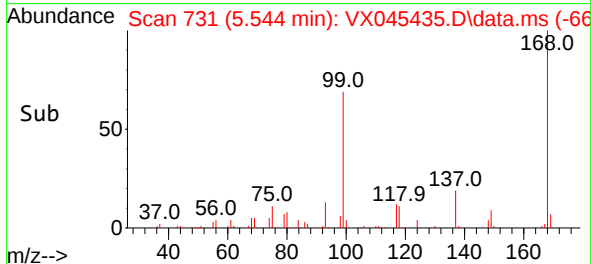
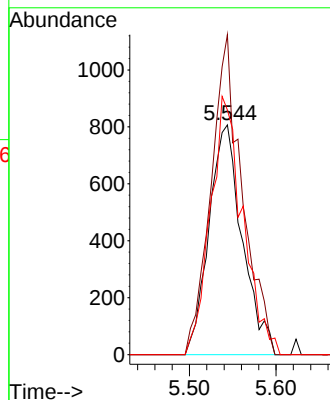
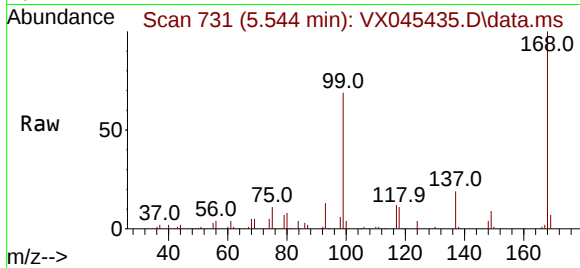




#31  
Cyclohexane  
Concen: 1.487 ug/l  
RT: 5.544 min Scan# 718  
Delta R.T. 0.079 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

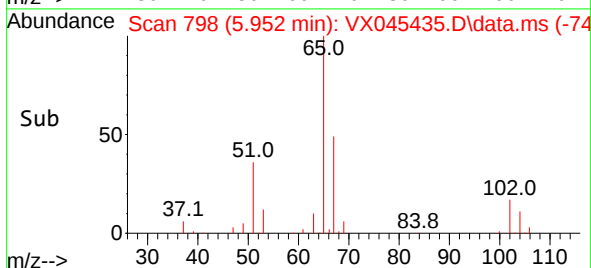
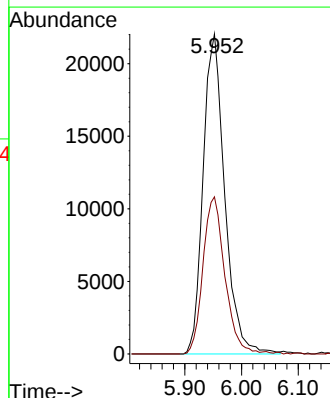
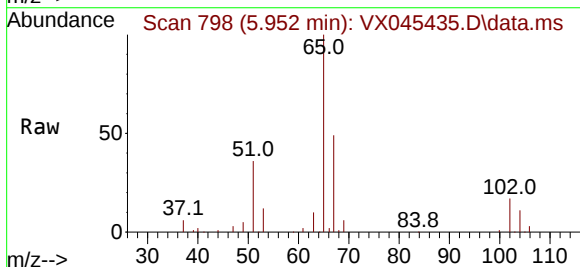
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP08-20250318DL

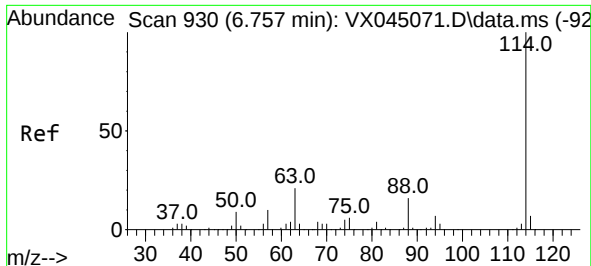
Tgt Ion: 56 Resp: 2155  
Ion Ratio Lower Upper  
56 100  
69 139.3 23.4 35.2#  
84 106.4 69.4 104.2#



#33  
1,2-Dichloroethane-d4  
Concen: 54.727 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

Tgt Ion: 65 Resp: 58279  
Ion Ratio Lower Upper  
65 100  
67 49.8 0.0 106.2

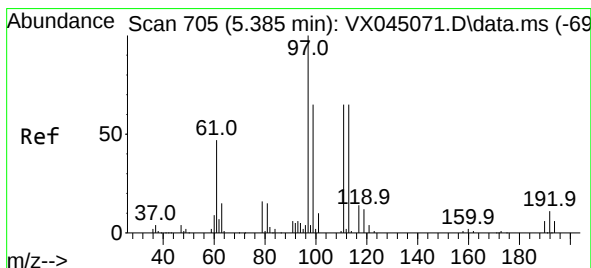
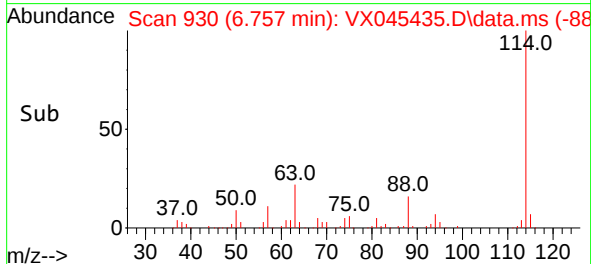
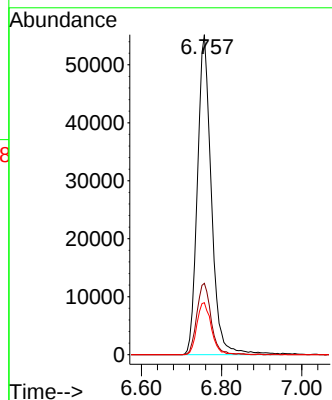
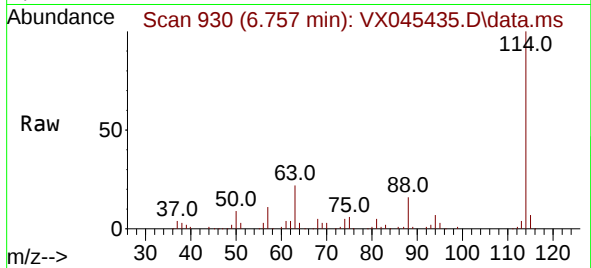




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

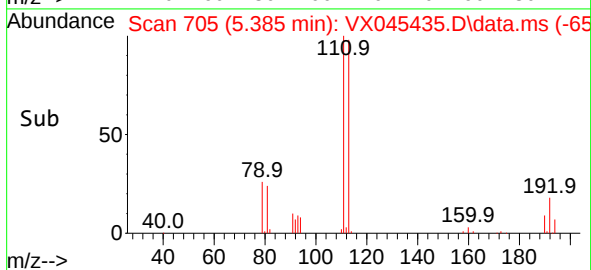
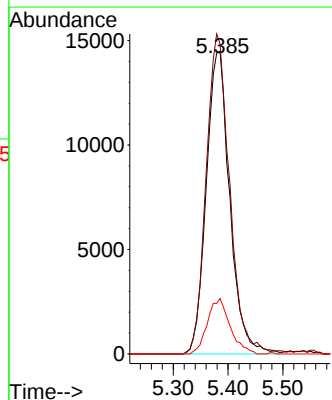
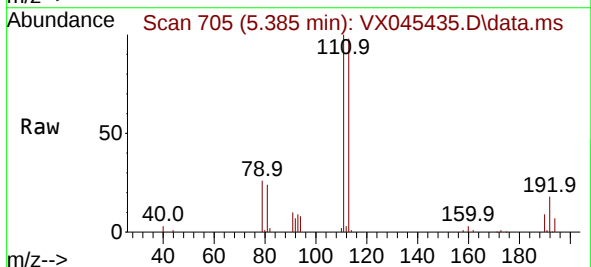
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ClientSampleId :  
DUP08-20250318DL

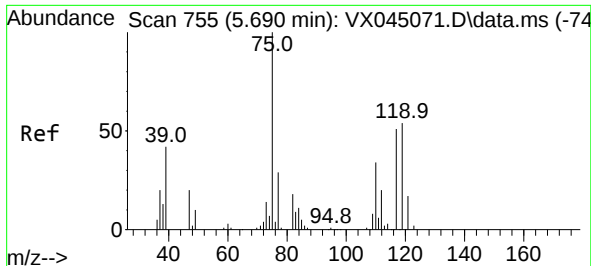
Tgt Ion:114 Resp: 133107  
Ion Ratio Lower Upper  
114 100  
63 22.3 0.0 41.8  
88 16.2 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 48.331 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

Tgt Ion:113 Resp: 43017  
Ion Ratio Lower Upper  
113 100  
111 105.3 81.8 122.6  
192 17.7 14.3 21.5

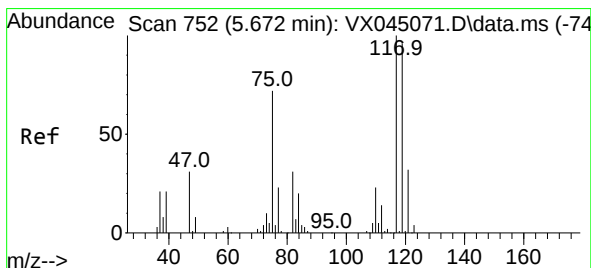
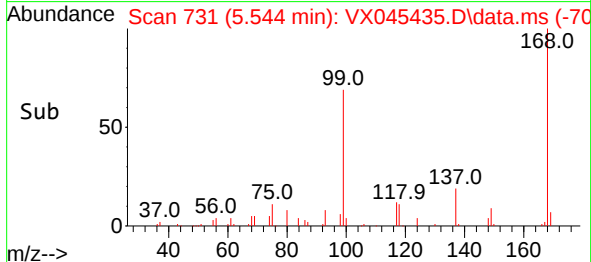
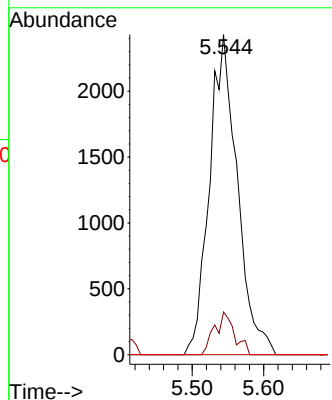
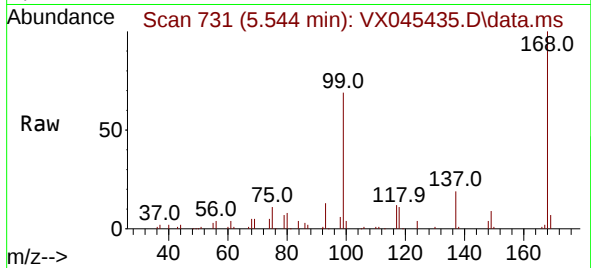




#36  
1,1-Dichloropropene  
Concen: 5.394 ug/l  
RT: 5.544 min Scan# 711  
Delta R.T. -0.146 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

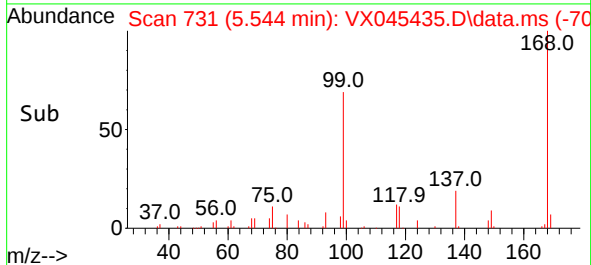
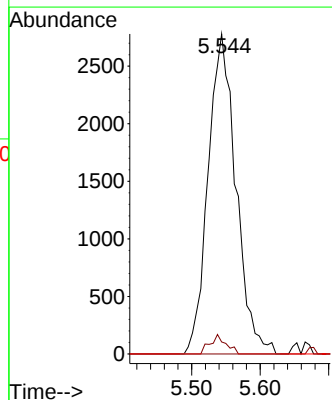
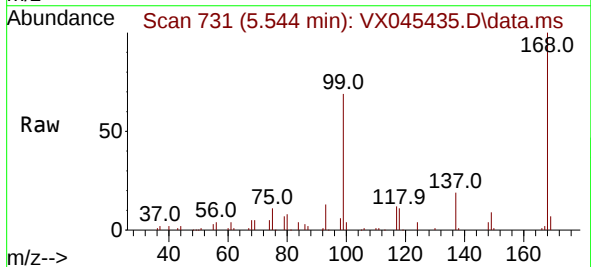
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP08-20250318DL

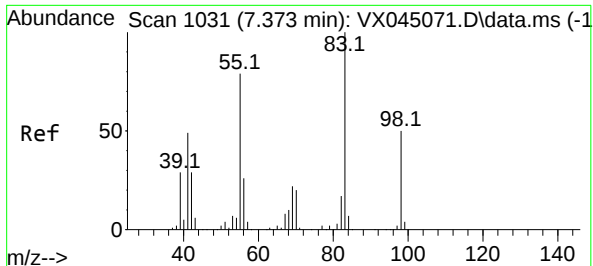
Tgt Ion: 75 Resp: 6584  
Ion Ratio Lower Upper  
75 100  
110 9.5 16.9 50.6#  
77 0.0 24.5 36.7#



#38  
Carbon Tetrachloride  
Concen: 6.326 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.128 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

Tgt Ion: 117 Resp: 7839  
Ion Ratio Lower Upper  
117 100  
119 3.8 76.7 115.1#  
121 0.0 25.5 38.3#

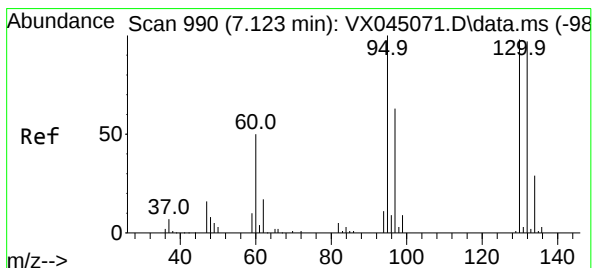
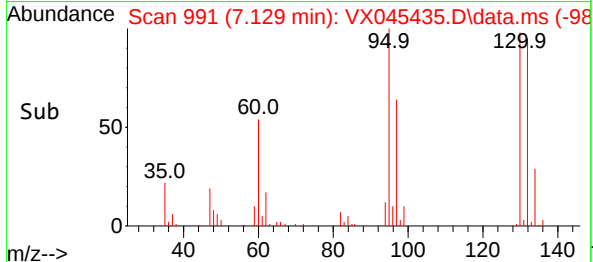
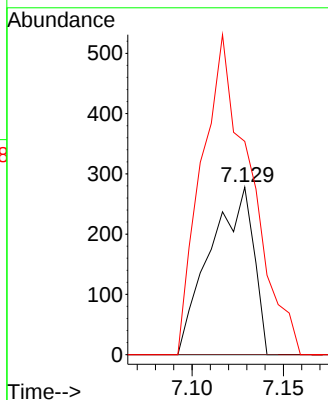
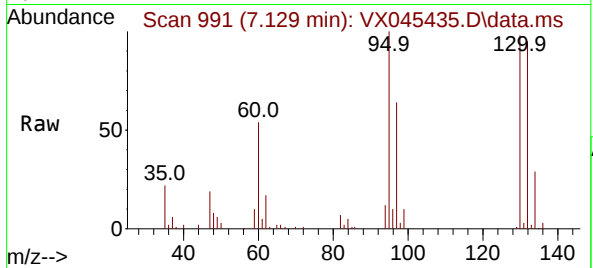




#39  
Methylcyclohexane  
Concen: 0.314 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.244 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

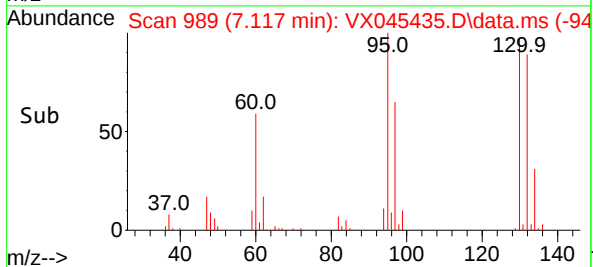
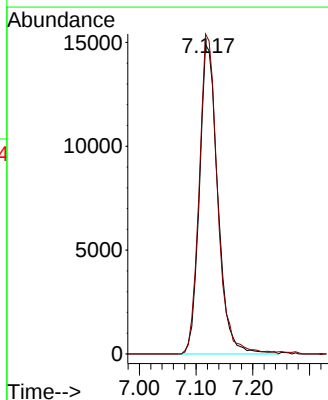
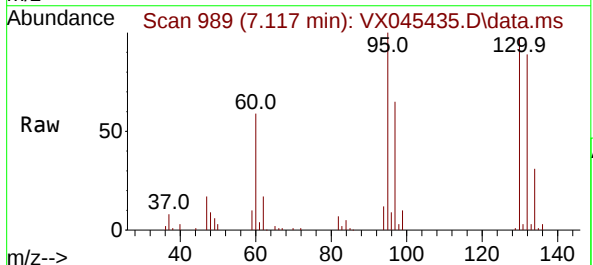
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP08-20250318DL

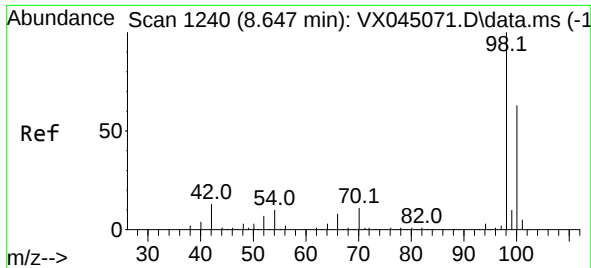
Tgt Ion: 83 Resp: 459  
Ion Ratio Lower Upper  
83 100  
55 0.0 63.0 94.4#  
98 127.3 39.7 59.5#



#44  
Trichloroethene  
Concen: 37.080 ug/l  
RT: 7.117 min Scan# 989  
Delta R.T. -0.006 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

Tgt Ion:130 Resp: 33559  
Ion Ratio Lower Upper  
130 100  
95 103.5 0.0 205.0

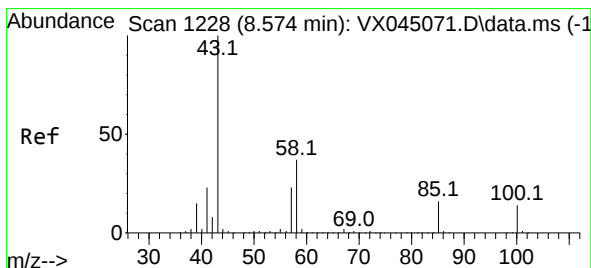
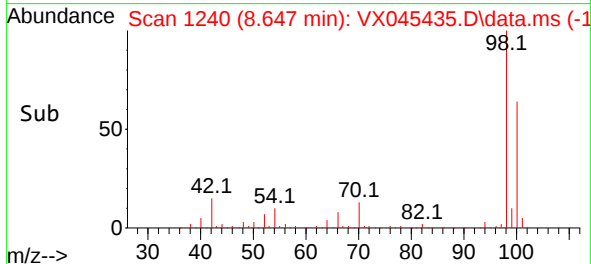
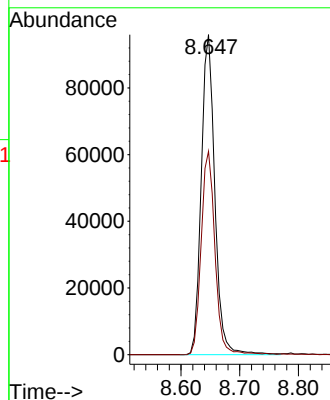
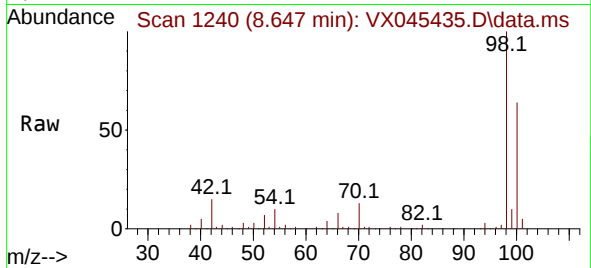




#50  
Toluene-d8  
Concen: 47.803 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

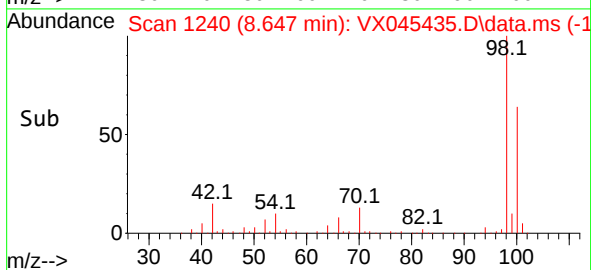
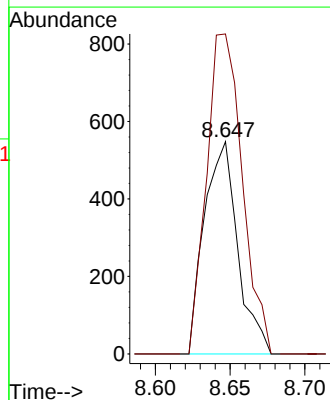
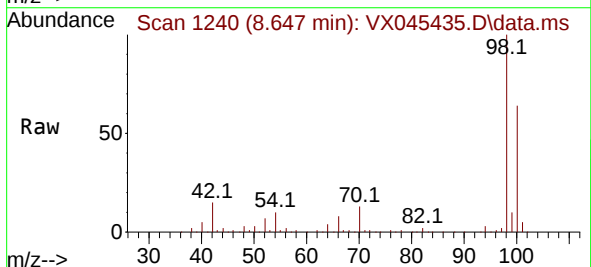
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP08-20250318DL

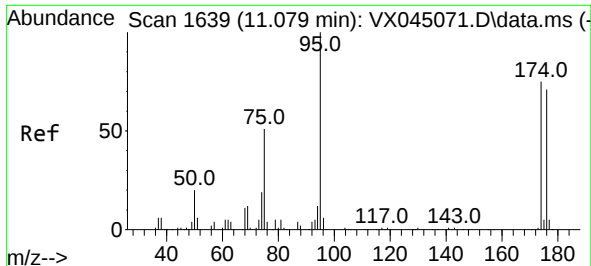
Tgt Ion: 98 Resp: 154249  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.544 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.073 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

Tgt Ion: 43 Resp: 850  
Ion Ratio Lower Upper  
43 100  
58 161.8 29.2 43.8#

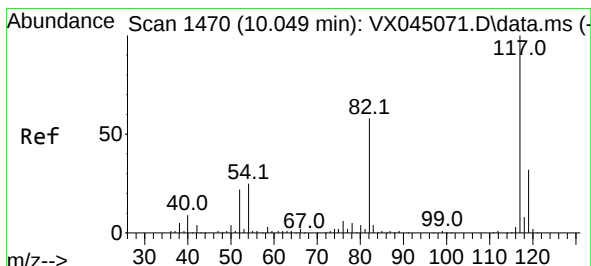
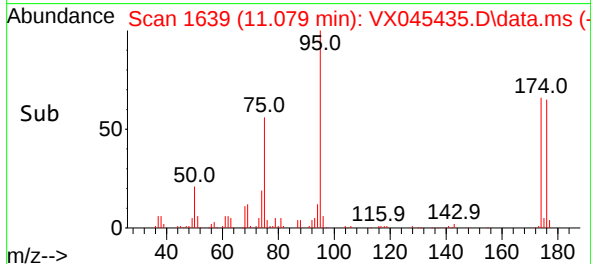
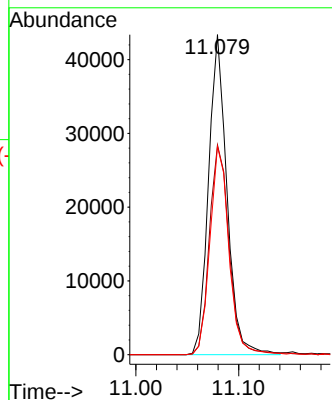
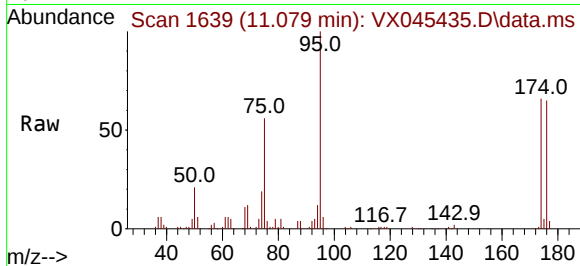




#62  
4-Bromofluorobenzene  
Concen: 50.447 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

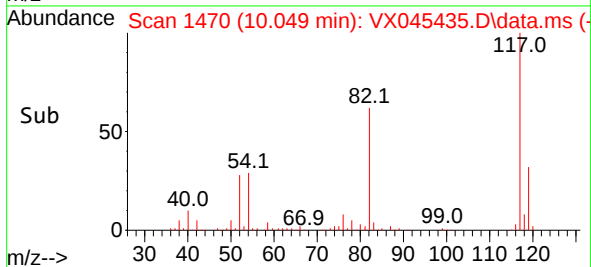
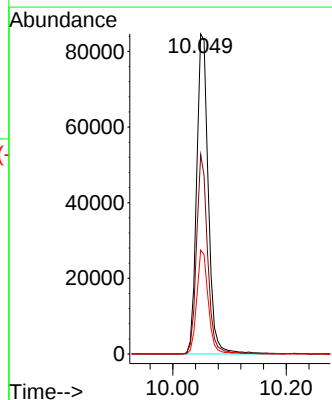
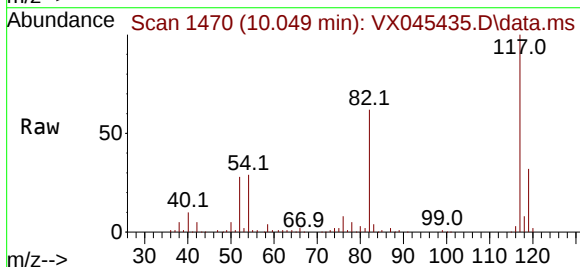
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP08-20250318DL

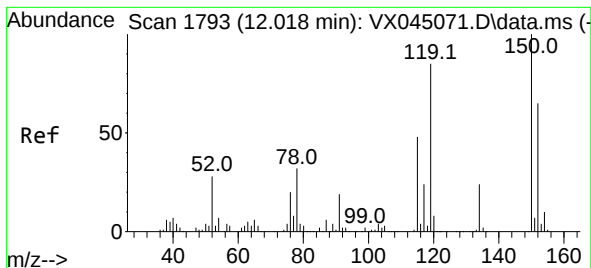
Tgt Ion: 95 Resp: 53940  
Ion Ratio Lower Upper  
95 100  
174 70.6 0.0 148.2  
176 67.5 0.0 141.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. 0.000 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

Tgt Ion: 117 Resp: 120920  
Ion Ratio Lower Upper  
117 100  
82 62.3 46.3 69.5  
119 32.5 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045435.D

Acq: 25 Mar 2025 13:12

Instrument :

MSVOA\_X

ClientSampleId :

DUP08-20250318DL

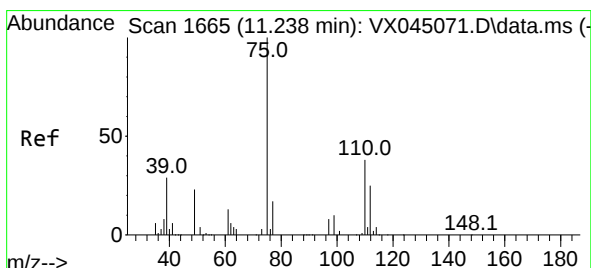
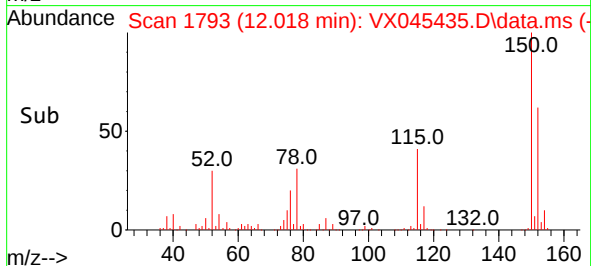
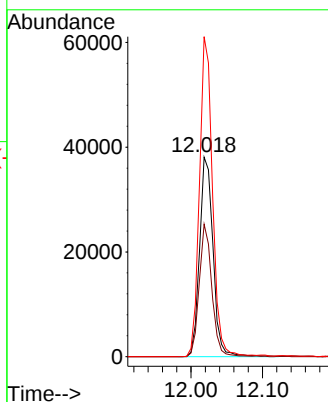
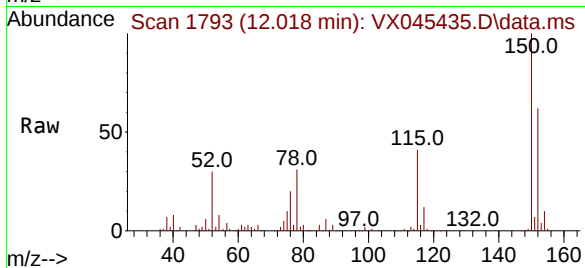
Tgt Ion:152 Resp: 49927

Ion Ratio Lower Upper

152 100

115 62.2 44.2 132.6

150 155.6 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 26.824 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX045435.D

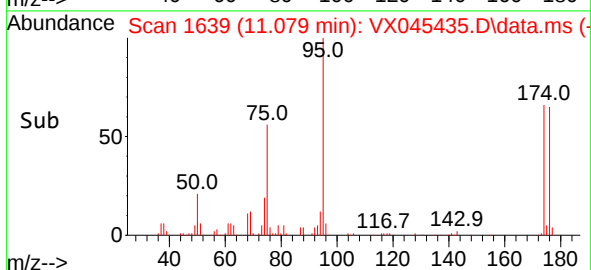
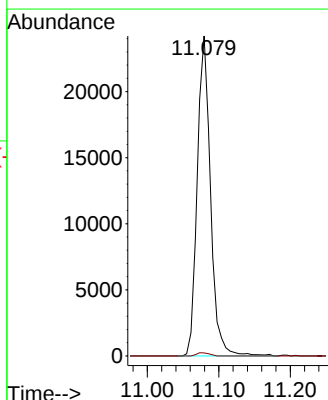
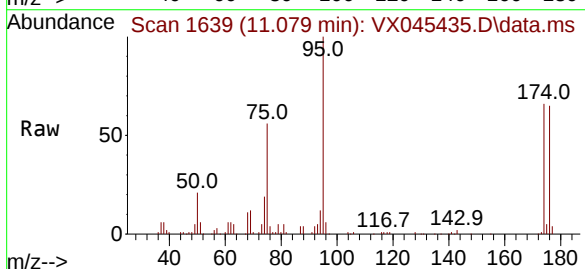
Acq: 25 Mar 2025 13:12

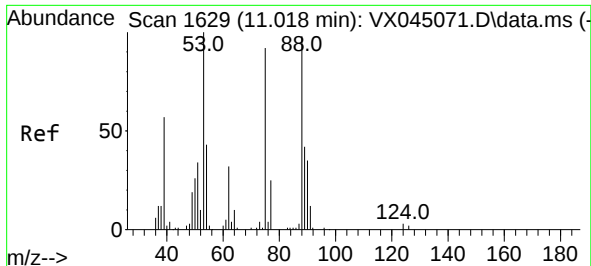
Tgt Ion: 75 Resp: 31171

Ion Ratio Lower Upper

75 100

77 1.0 20.7 62.1#

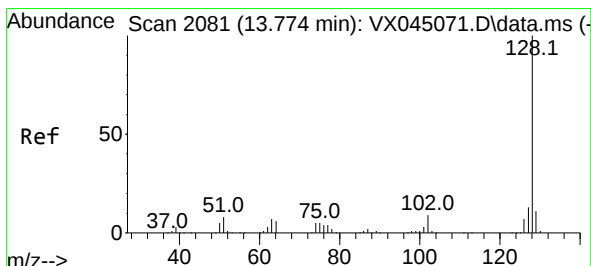
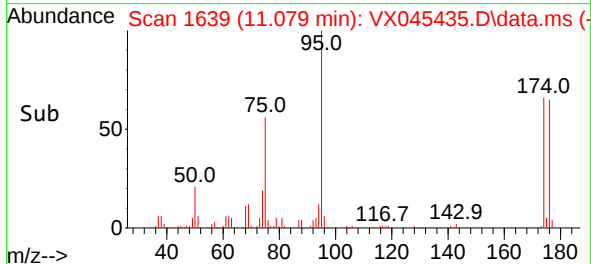
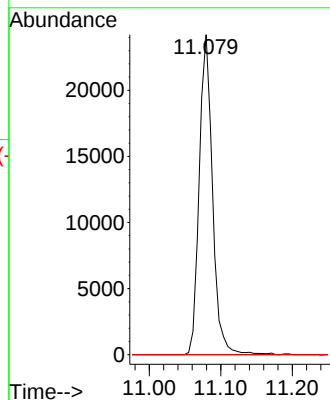
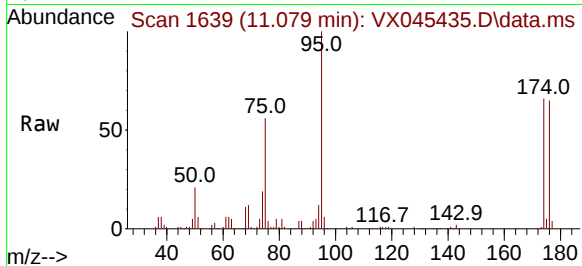




#81  
trans-1,4-Dichloro-2-butene  
Concen: 91.797 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

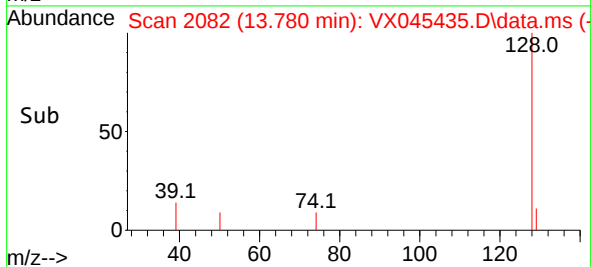
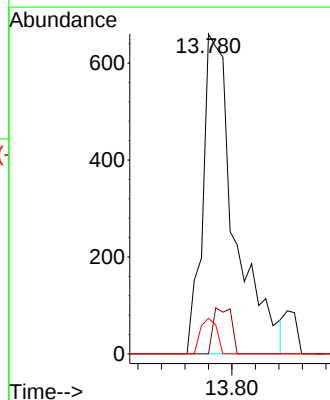
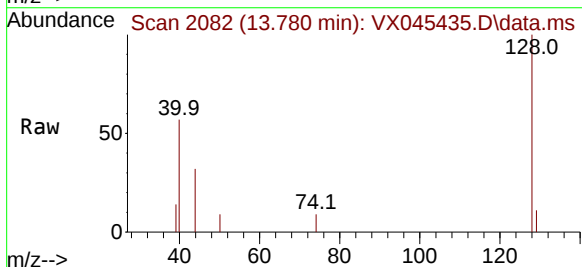
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DUP08-20250318DL

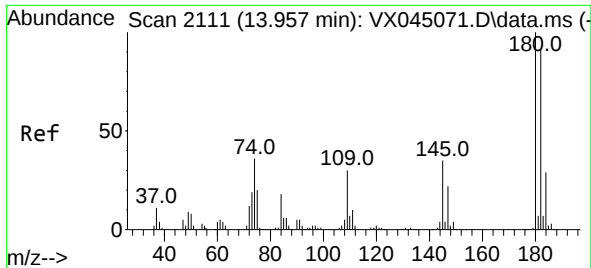
Tgt Ion: 75 Resp: 31171  
Ion Ratio Lower Upper  
75 100  
53 0.0 88.5 132.7#  
89 0.0 36.2 54.4#



#95  
Naphthalene  
Concen: 0.346 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.006 min  
Lab File: VX045435.D  
Acq: 25 Mar 2025 13:12

Tgt Ion:128 Resp: 1247  
Ion Ratio Lower Upper  
128 100  
127 8.0 10.3 15.5#  
129 5.6 8.7 13.1#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.277 ug/l  
 RT: 13.975 min Scan# 2111  
 Delta R.T. 0.018 min  
 Lab File: VX045435.D  
 Acq: 25 Mar 2025 13:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DUP08-20250318DL

Tgt Ion:180 Resp: 274  
 Ion Ratio Lower Upper  
 180 100  
 182 89.4 47.5 142.6  
 145 0.0 17.0 50.9#

