

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW040723\  
 Data File : VW030445.D  
 Acq On : 07 Apr 2023 16:07  
 Operator : SY/MD  
 Sample : 02194-15  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BHDx2

Quant Time: Apr 10 03:57:35 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR032323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Mon Apr 10 03:52:52 2023  
 Response via : Initial Calibration

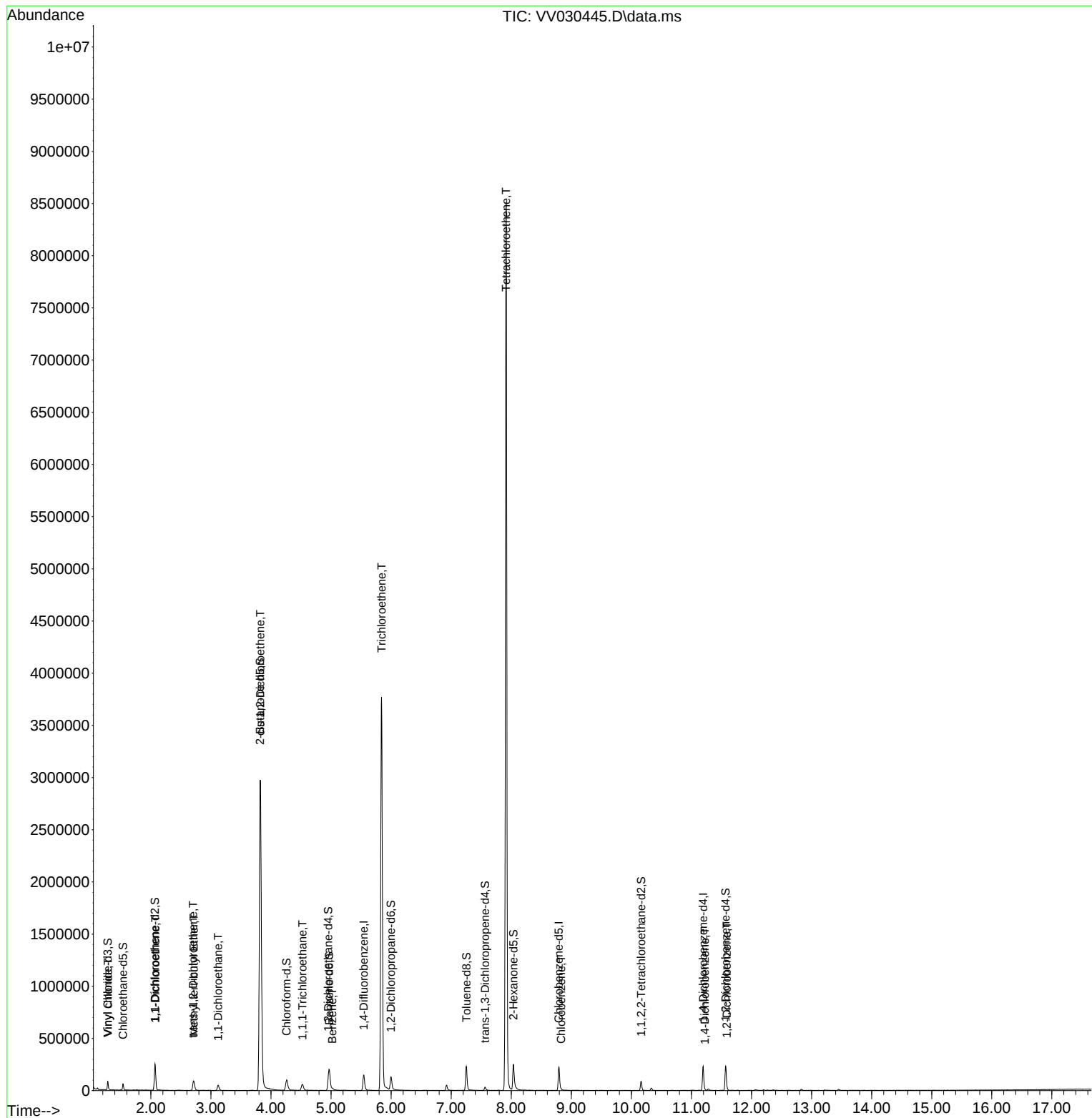
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.545  | 114   | 124645   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.792  | 117   | 123150   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.194 | 152   | 60057    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.281  | 65    | 34942    | 4.233    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 84.600%  |
| 7) Chloroethane-d5            | 1.536  | 69    | 38179    | 4.766    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 95.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.066  | 63    | 93264    | 4.761    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 95.200%  |
| 20) 2-Butanone-d5             | 3.818  | 46    | 122359   | 57.345   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 114.680% |
| 24) Chloroform-d              | 4.259  | 84    | 100176   | 5.014    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 100.200% |
| 26) 1,2-Dichloroethane-d4     | 4.953  | 65    | 51598    | 5.474    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 109.400% |
| 32) Benzene-d6                | 4.969  | 84    | 177513   | 5.115    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 102.400% |
| 36) 1,2-Dichloropropane-d6    | 5.998  | 67    | 58016    | 5.340    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 106.800% |
| 41) Toluene-d8                | 7.252  | 98    | 152911   | 4.798    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 96.000%  |
| 43) trans-1,3-Dichloroprop... | 7.564  | 79    | 18593    | 4.545    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 91.000%  |
| 46) 2-Hexanone-d5             | 8.037  | 63    | 87014    | 52.937   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 105.880% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.162 | 84    | 39518    | 4.615    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 92.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.570 | 152   | 57698    | 5.375    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 107.600% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 5) Vinyl chloride             | 1.285  | 62    | 21856    | 1.499    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.076  | 96    | 45369    | 4.356    | ug/L   | 93       |
| 17) Methyl tert-butyl Ether   | 2.716  | 73    | 77956    | 3.534    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 2.703  | 96    | 5863     | 0.534    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.121  | 63    | 48179    | 2.265    | ug/L   | 95       |
| 22) cis-1,2-Dichloroethene    | 3.822  | 96    | 1549472  | 140.716  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane     | 4.523  | 97    | 47408    | 2.395    | ug/L   | 98       |
| 33) Benzene                   | 5.021  | 78    | 15548    | 0.355    | ug/L   | 100      |
| 34) Trichloroethene           | 5.841  | 95    | 1248186  | 105.807  | ug/L   | 98       |
| 47) Tetrachloroethene         | 7.915  | 164   | 1782304  | 171.190  | ug/L   | 96       |
| 51) Chlorobenzene             | 8.828  | 112   | 6450     | 0.216    | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene       | 11.223 | 146   | 2199     | 0.099    | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 11.587 | 146   | 3211     | 0.161    | ug/L # | 86       |
| -----                         |        |       |          |          |        |          |

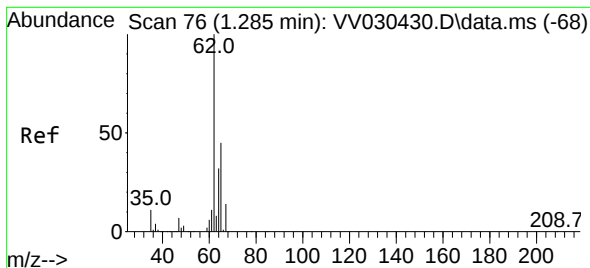
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SFAM1.0  
QLast Update : Mon Apr 10 03:52:52 2023  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.499 ug/L

RT: 1.285 min Scan# 76

Delta R.T. 0.000 min

Lab File: VV030445.D

Acq: 07 Apr 2023 16:07

Instrument :

MSVOA\_V

ClientSampleId :

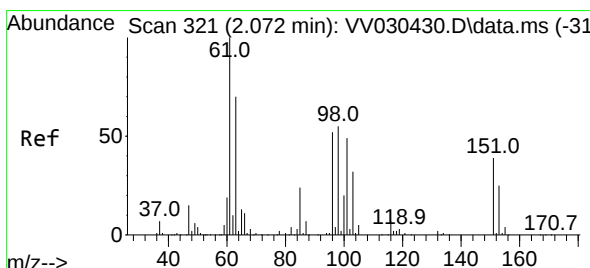
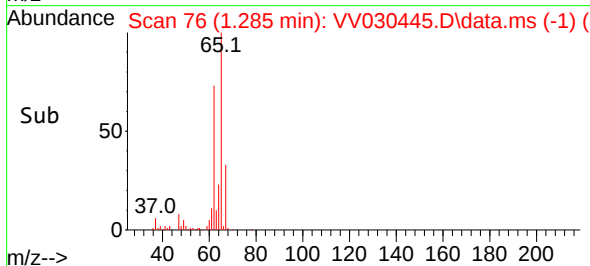
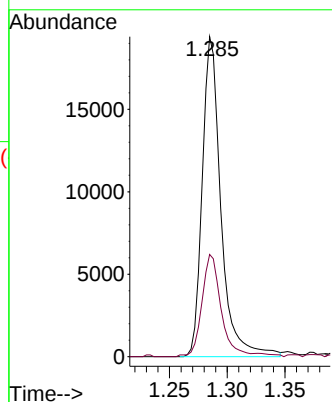
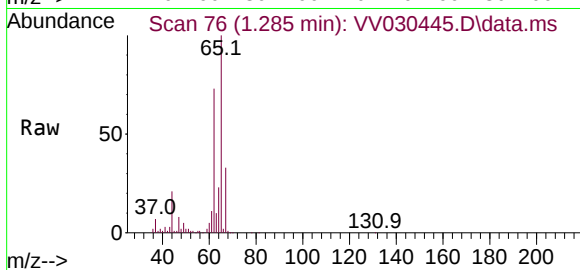
BHDX2

Tgt Ion: 62 Resp: 21856

Ion Ratio Lower Upper

62 100

64 32.0 23.2 43.2



#12

1,1-Dichloroethene

Concen: 4.356 ug/L

RT: 2.076 min Scan# 322

Delta R.T. 0.003 min

Lab File: VV030445.D

Acq: 07 Apr 2023 16:07

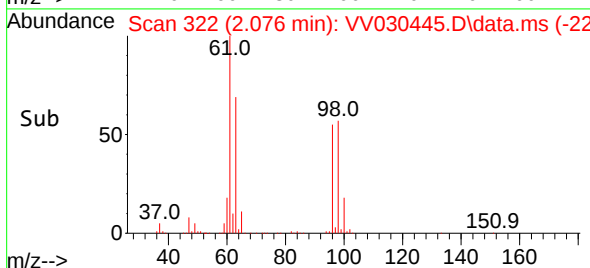
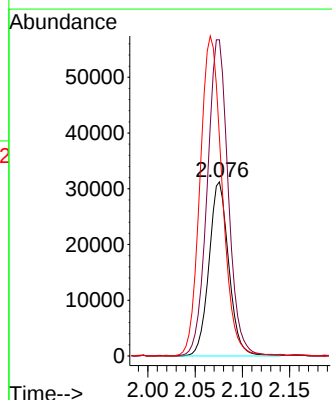
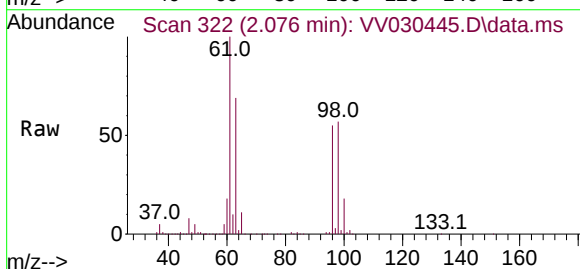
Tgt Ion: 96 Resp: 45369

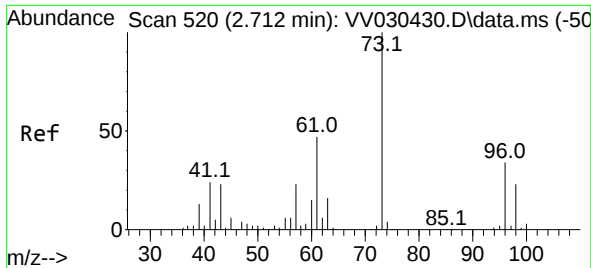
Ion Ratio Lower Upper

96 100

61 181.6 136.3 253.1

63 125.8 92.1 171.1

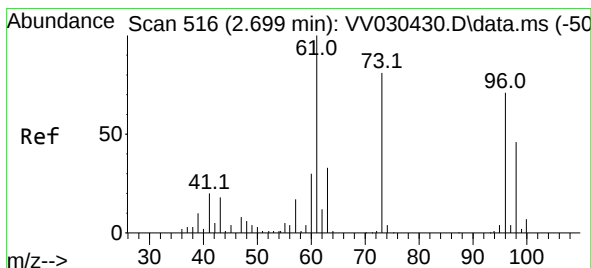
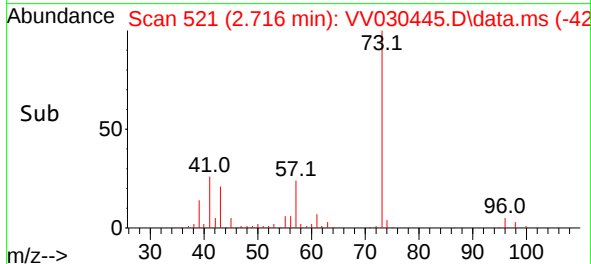
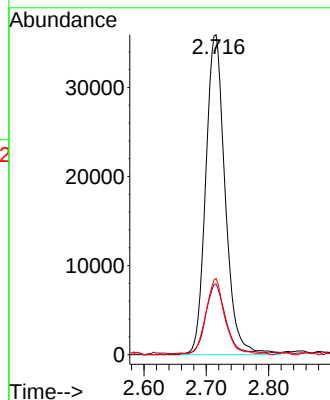
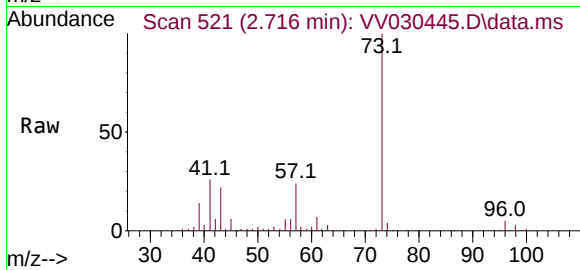




#17  
Methyl tert-butyl Ether  
Concen: 3.534 ug/L  
RT: 2.716 min Scan# 517  
Delta R.T. 0.003 min  
Lab File: VV030445.D  
Acq: 07 Apr 2023 16:07

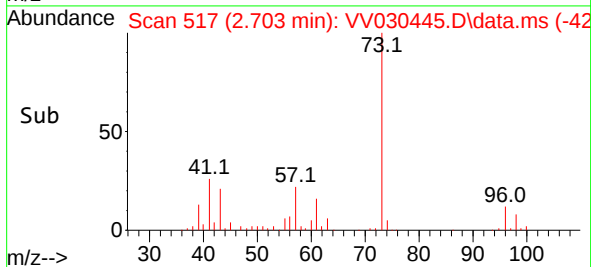
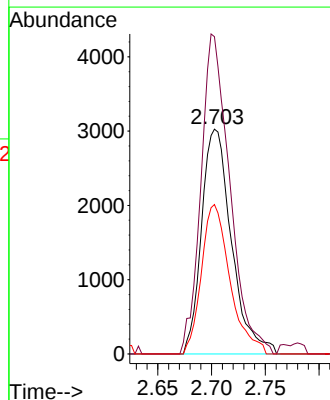
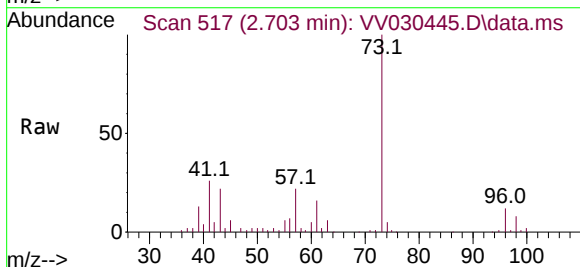
Instrument :  
MSVOA\_V  
ClientSampleId :  
BHDx2

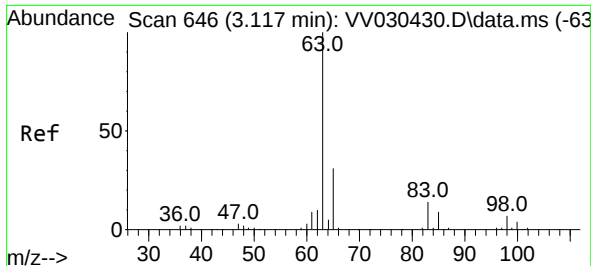
Tgt Ion: 73 Resp: 77956  
Ion Ratio Lower Upper  
73 100  
43 21.5 17.4 26.2  
57 22.3 18.3 27.5



#18  
trans-1,2-Dichloroethene  
Concen: 0.534 ug/L  
RT: 2.703 min Scan# 517  
Delta R.T. 0.003 min  
Lab File: VV030445.D  
Acq: 07 Apr 2023 16:07

Tgt Ion: 96 Resp: 5863  
Ion Ratio Lower Upper  
96 100  
61 141.1 101.7 188.9  
98 66.5 45.8 85.2





#19

1,1-Dichloroethane

Concen: 2.265 ug/L

RT: 3.121 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV030445.D

Acq: 07 Apr 2023 16:07

Instrument :

MSVOA\_V

ClientSampleId :

BHDX2

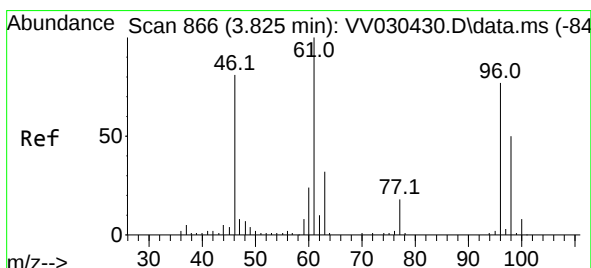
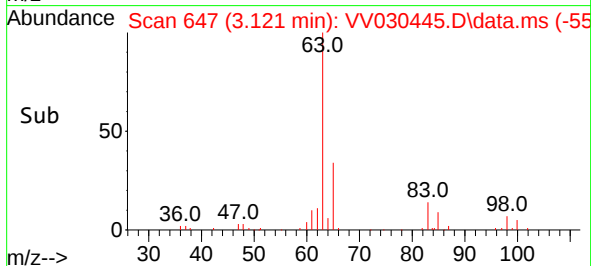
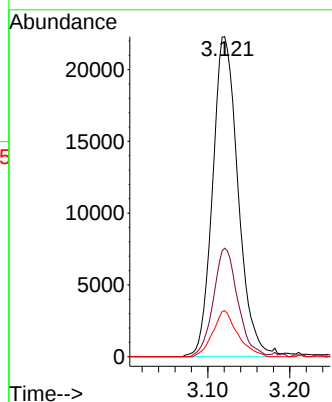
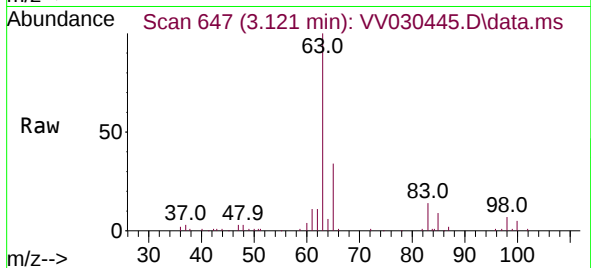
Tgt Ion: 63 Resp: 48179

Ion Ratio Lower Upper

63 100

65 33.9 21.7 40.3

83 14.4 9.1 16.9



#22

cis-1,2-Dichloroethene

Concen: 140.716 ug/L

RT: 3.822 min Scan# 865

Delta R.T. -0.003 min

Lab File: VV030445.D

Acq: 07 Apr 2023 16:07

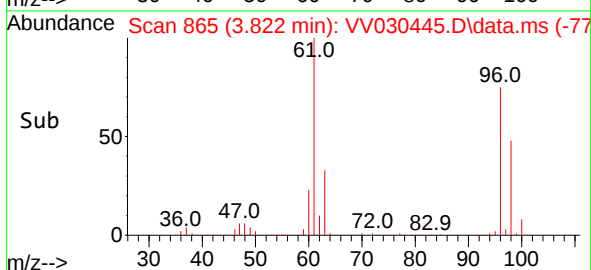
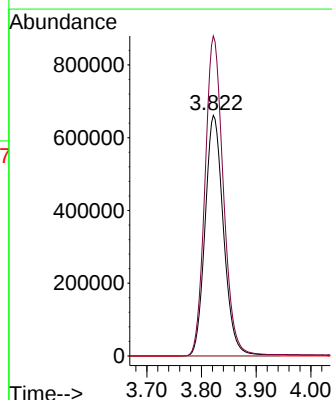
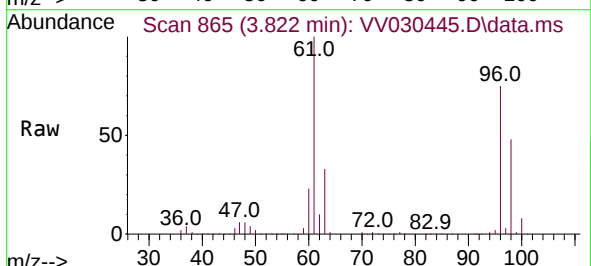
Tgt Ion: 96 Resp: 1549472

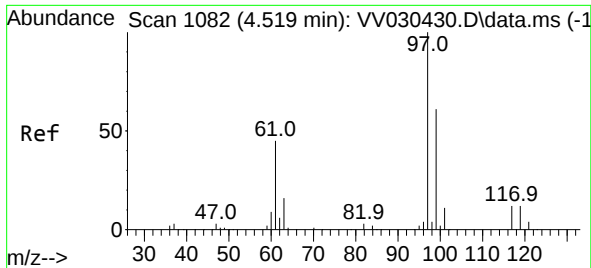
Ion Ratio Lower Upper

96 100

61 133.0 92.0 170.8

68 0.0 0.0 0.0





#29

1,1,1-Trichloroethane

Concen: 2.395 ug/L

RT: 4.523 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV030445.D

Acq: 07 Apr 2023 16:07

Instrument :

MSVOA\_V

ClientSampleId :

BHDX2

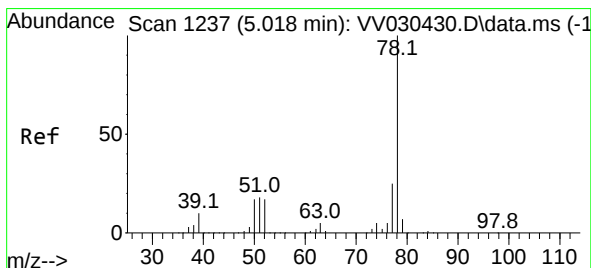
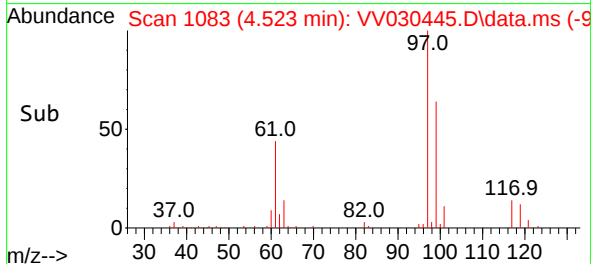
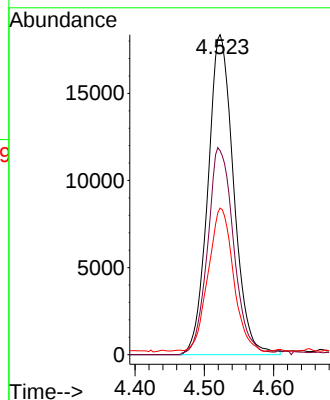
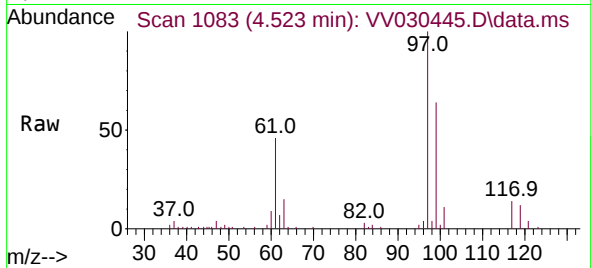
Tgt Ion: 97 Resp: 47408

Ion Ratio Lower Upper

97 100

99 65.6 50.9 76.3

61 43.7 35.9 53.9



#33

Benzene

Concen: 0.355 ug/L

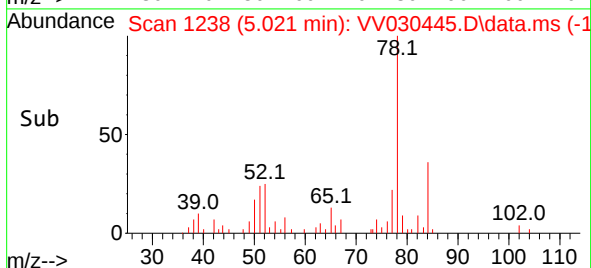
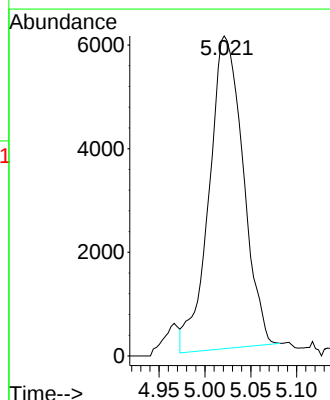
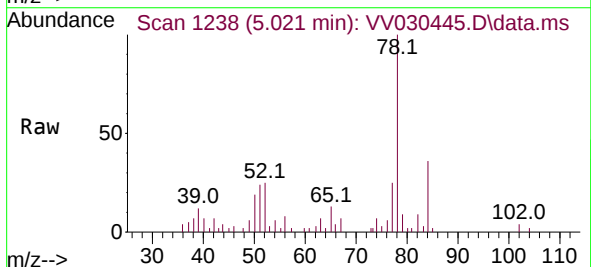
RT: 5.021 min Scan# 1238

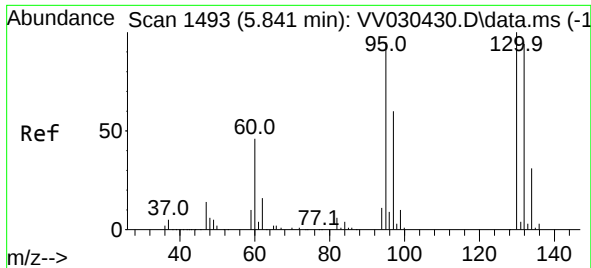
Delta R.T. 0.003 min

Lab File: VV030445.D

Acq: 07 Apr 2023 16:07

Tgt Ion: 78 Resp: 15548

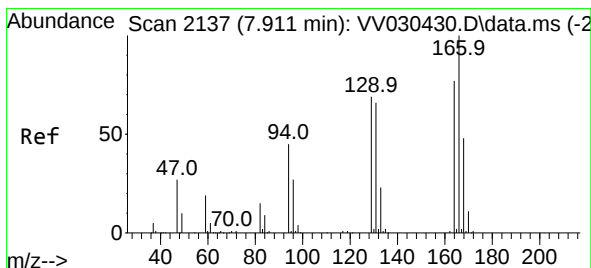
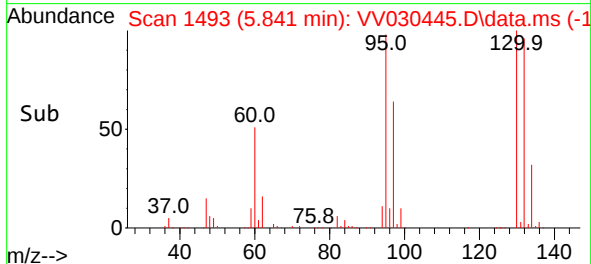
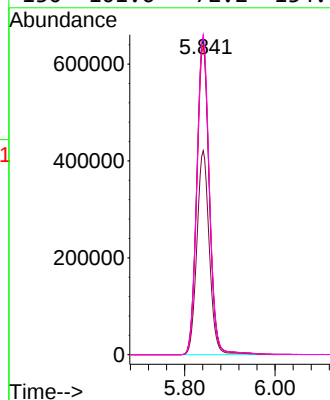
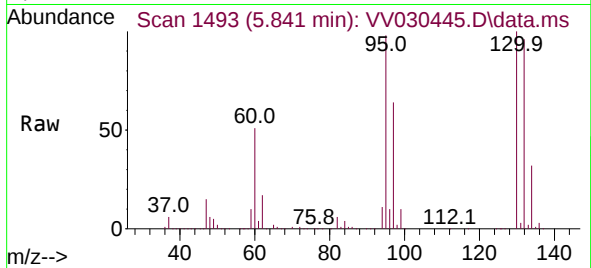




#34  
Trichloroethene  
Concen: 105.807 ug/L  
RT: 5.841 min Scan# 1493  
Delta R.T. 0.000 min  
Lab File: VV030445.D  
Acq: 07 Apr 2023 16:07

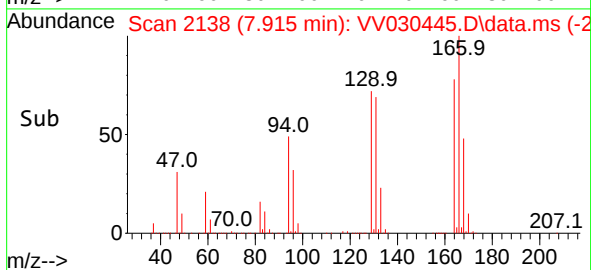
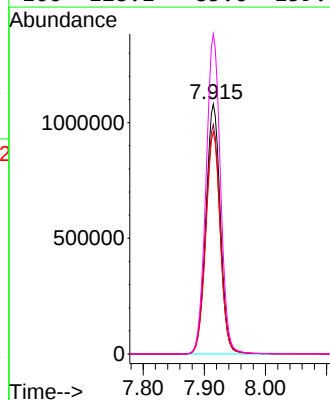
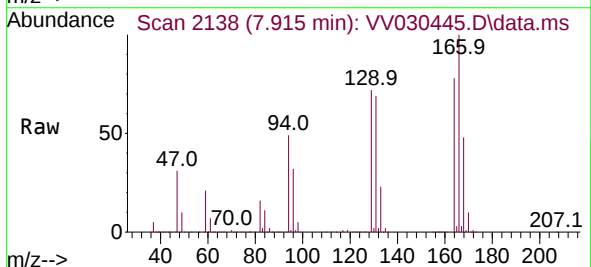
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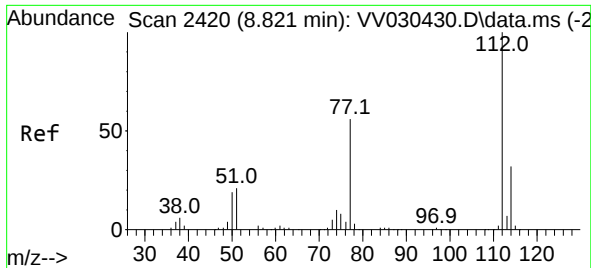
Tgt Ion: 95 Resp: 1248186  
Ion Ratio Lower Upper  
95 100  
97 64.8 44.2 82.2  
132 97.9 69.5 129.1  
130 101.6 72.2 134.0



#47  
Tetrachloroethene  
Concen: 171.190 ug/L  
RT: 7.915 min Scan# 2138  
Delta R.T. 0.003 min  
Lab File: VV030445.D  
Acq: 07 Apr 2023 16:07

Tgt Ion: 164 Resp: 1782304  
Ion Ratio Lower Upper  
164 100  
129 91.8 60.8 112.8  
131 88.9 61.7 114.7  
166 128.1 85.6 159.0

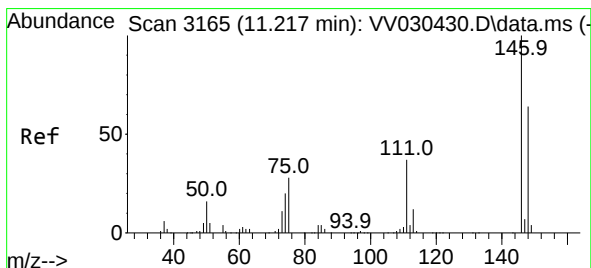
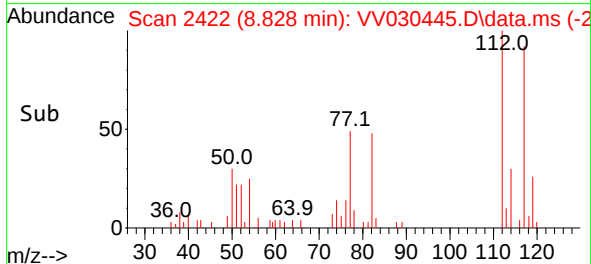
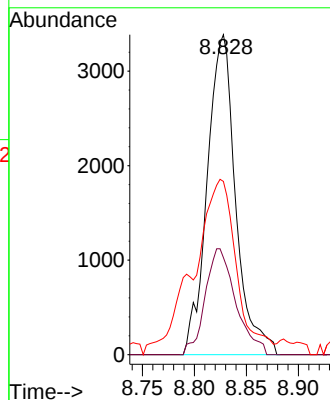
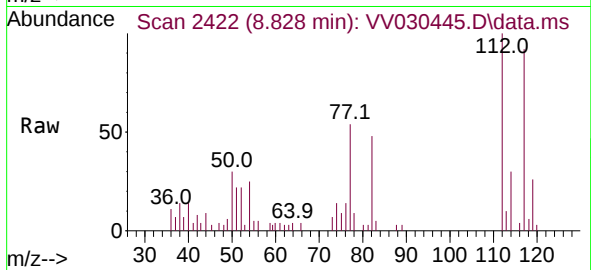




#51  
Chlorobenzene  
Concen: 0.216 ug/L  
RT: 8.828 min Scan# 2420  
Delta R.T. 0.006 min  
Lab File: VV030445.D  
Acq: 07 Apr 2023 16:07

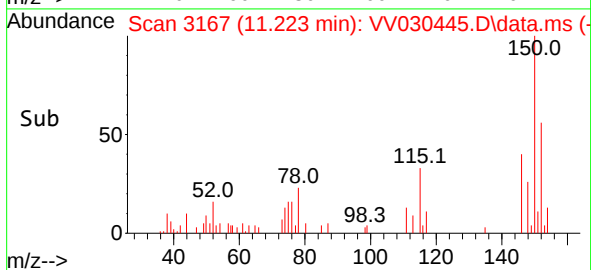
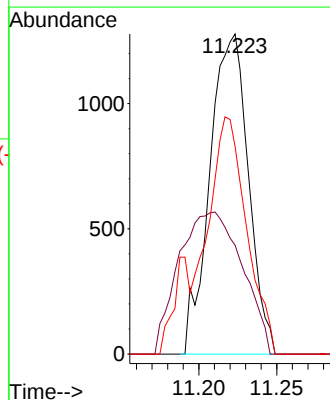
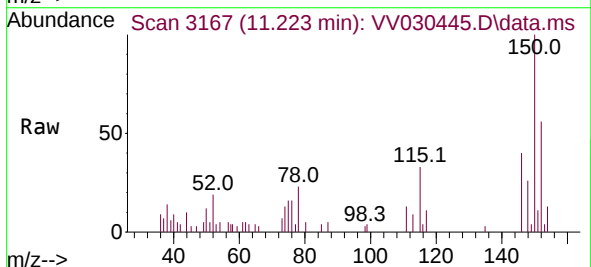
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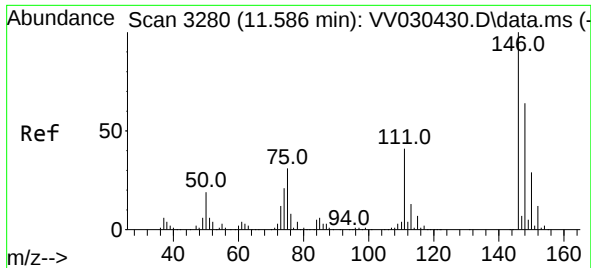
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Ion Ratio Lower Upper  
112 100  
114 30.4 22.4 41.6  
77 54.1 45.9 68.9



#65  
1,4-Dichlorobenzene  
Concen: 0.099 ug/L  
RT: 11.223 min Scan# 3167  
Delta R.T. 0.007 min  
Lab File: VV030445.D  
Acq: 07 Apr 2023 16:07

Tgt Ion:146 Resp: 2199  
Ion Ratio Lower Upper  
146 100  
111 34.0 26.0 48.4  
148 64.9 45.2 84.0





#67

1,2-Dichlorobenzene

Concen: 0.161 ug/L

RT: 11.587 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV030445.D

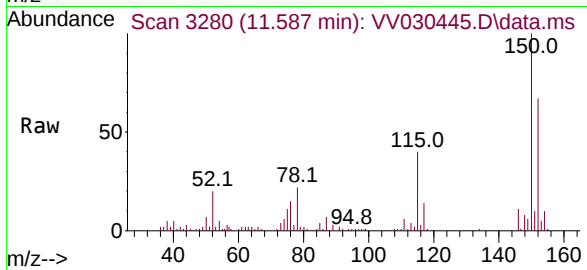
Acq: 07 Apr 2023 16:07

Instrument :

MSVOA\_V

ClientSampleId :

BHDX2



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 3211  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 53.7  | 33.1  | 49.7# |
| 148      | 72.9  | 52.2  | 78.2  |

