

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW012121\  
 Data File : VW020121.D  
 Acq On : 21 Jan 2021 22:02  
 Operator : SY/MD  
 Sample : M1181-15  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F1E34

Manual Integrations  
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 1/26/2021 10:28:35 AM

Quant Time: Jan 22 06:47:17 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SOMVLM012121WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jan 22 06:43:18 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) 1,4-Difluorobenzene        | 5.621          | 114  | 410404     | 50.00   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.855          | 117  | 450437     | 50.00   | ug/L   | 0.00     |
| 60) 1,4-Dichlorobenzene-d4    | 11.257         | 152  | 177221     | 50.00   | ug/L   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 4) Vinyl Chloride-d3          | 1.309          | 65   | 170843     | 56.13   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 112.26% |        |          |
| 7) Chloroethane-d5            | 1.570          | 69   | 134899     | 52.94   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 105.88% |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.110          | 63   | 245934     | 40.45   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 80.90%  |        |          |
| 21) 2-Butanone-d5             | 3.907          | 46   | 239977     | 114.96  | ug/L   | 0.02     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 114.96% |        |          |
| 24) Chloroform-d              | 4.354          | 84   | 266407     | 46.72   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 93.44%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.036          | 65   | 208978     | 52.88   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 105.76% |        |          |
| 32) Benzene-d6                | 5.055          | 84   | 573603     | 46.24   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 92.48%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.074          | 67   | 176003     | 44.94   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 89.88%  |        |          |
| 41) Toluene-d8                | 7.318          | 98   | 550904     | 47.74   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 95.48%  |        |          |
| 43) trans-1,3-Dichloroprop... | 7.624          | 79   | 87913      | 45.88   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 91.76%  |        |          |
| 47) 2-Hexanone-d5             | 8.090          | 63   | 142548     | 87.57   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 87.57%  |        |          |
| 57) 1,1,2,2-Tetrachloroeth... | 10.222         | 84   | 211161     | 39.39   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 78.78%  |        |          |
| 64) 1,2-Dichlorobenzene-d4    | 11.633         | 152  | 178407     | 53.57   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 107.14% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         |        | Qvalue   |
| 5) Vinyl chloride             | 1.312          | 62   | 1547131    | 435.16  | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.123          | 96   | 25917      | 9.29    | ug/L # | 1        |
| 17) trans-1,2-Dichloroethene  | 2.766          | 96   | 97396      | 35.16   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 2.772          | 73   | 63512      | 7.08    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.203          | 63   | 4530       | 0.86    | ug/L   | 100      |
| 20) cis-1,2-Dichloroethene    | 3.910          | 96   | 24226376m  | 8158.66 | ug/L   |          |
| 33) Benzene                   | 5.113          | 78   | 39194      | 2.90    | ug/L   | 100      |
| 34) Trichloroethene           | 5.920          | 95   | 3565442    | 931.62  | ug/L   | 98       |
| 42) Toluene                   | 7.396          | 91   | 44236      | 3.08    | ug/L   | 99       |
| 46) Tetrachloroethene         | 7.981          | 164  | 2823347    | 988.30  | ug/L   | 98       |
| 51) Chlorobenzene             | 8.888          | 112  | 8991       | 0.95    | ug/L   | 97       |
| -----                         |                |      |            |         |        |          |

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

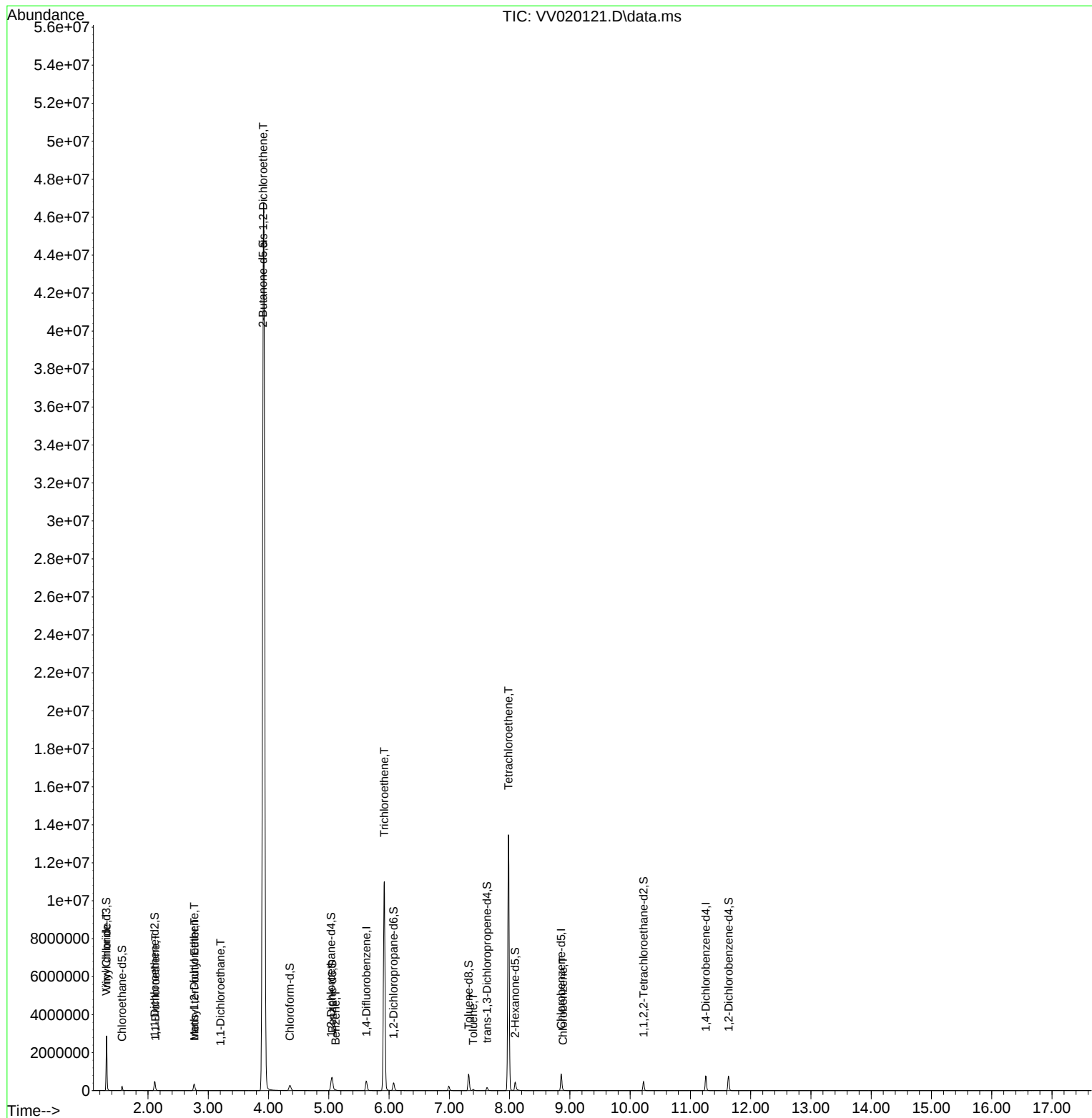
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV012121\  
Data File : VV020121.D  
Acq On : 21 Jan 2021 22:02  
Operator : SY/MD  
Sample : M1181-15  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 1 Sample Multiplier: 1

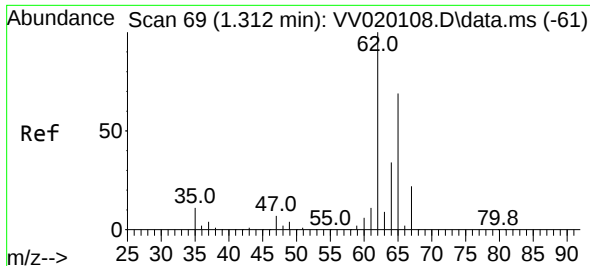
Instrument :  
MSVOA\_V  
ClientSampleId :  
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Quant Time: Jan 22 06:47:17 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SOMVLM012121WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jan 22 06:43:18 2021  
Response via : Initial Calibration





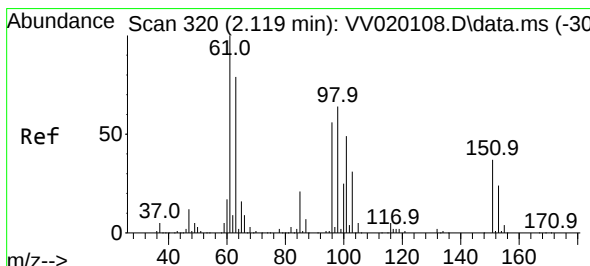
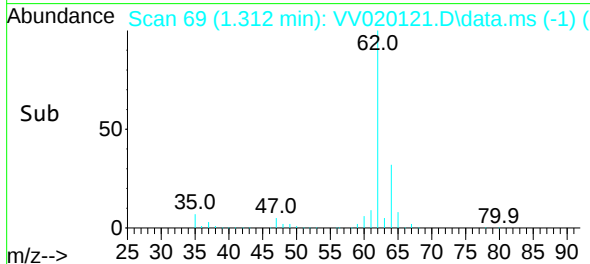
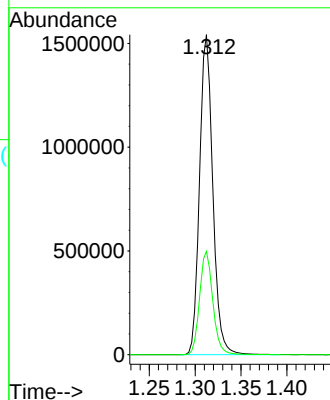
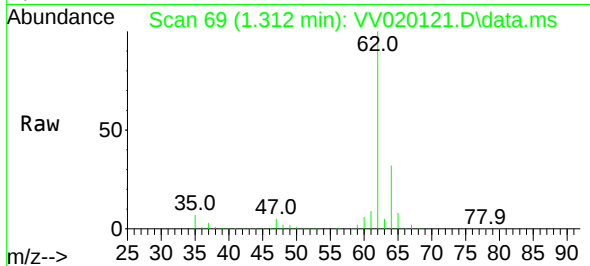
#5  
 Vinyl chloride  
 Concen: 435.16 ug/L  
 RT: 1.312 min Scan# 69  
 Delta R.T. 0.000 min  
 Lab File: VV020121.D  
 Acq: 21 Jan 2021 22:02

Tgt Ion: 62 Resp: 1547131  
 Ion Ratio Lower Upper  
 62 100  
 64 32.3 23.0 42.6

Instrument :  
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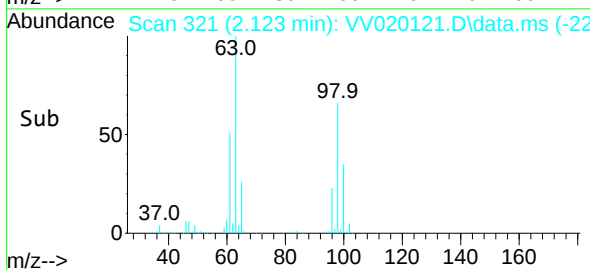
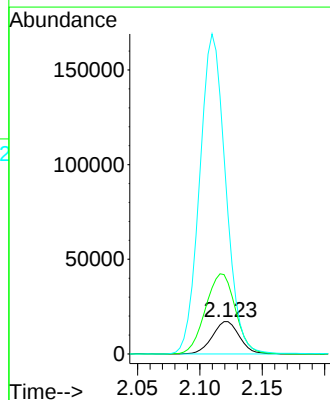
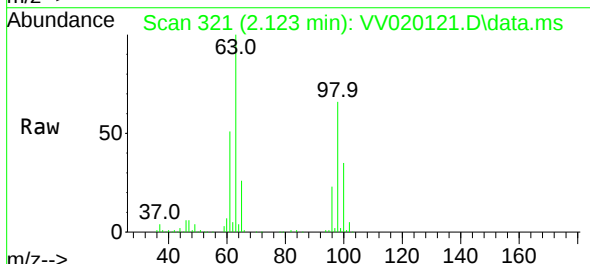
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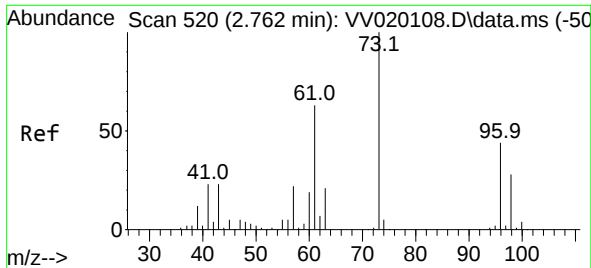
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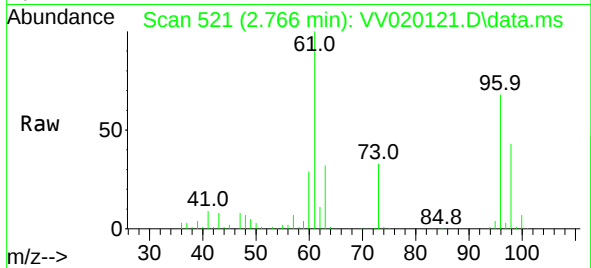
#12  
 1,1-Dichloroethene  
 Concen: 9.29 ug/L  
 RT: 2.123 min Scan# 321  
 Delta R.T. 0.003 min  
 Lab File: VV020121.D  
 Acq: 21 Jan 2021 22:02

Tgt Ion: 96 Resp: 25917  
 Ion Ratio Lower Upper  
 96 100  
 61 219.9 134.9 250.5  
 63 429.7 117.6 218.4#

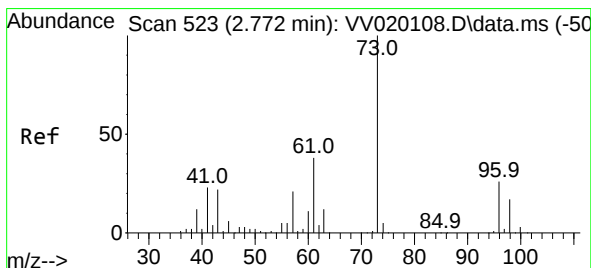
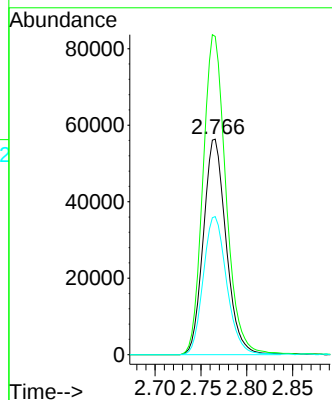
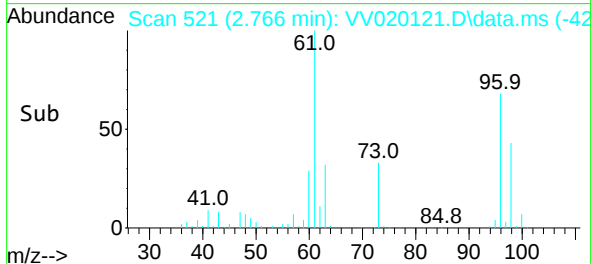




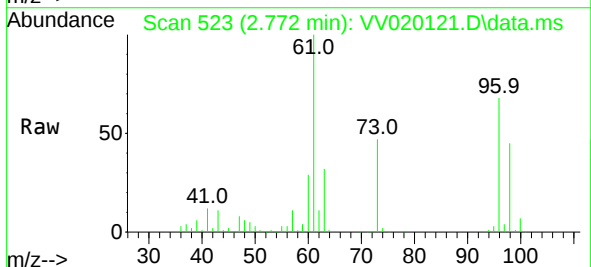
#17  
trans-1,2-Dichloroethene  
Concen: 35.16 ug/L  
RT: 2.766 min Scan# 521  
Delta R.T. 0.003 min  
Lab File: VV020121.D  
Acq: 21 Jan 2021 22:02



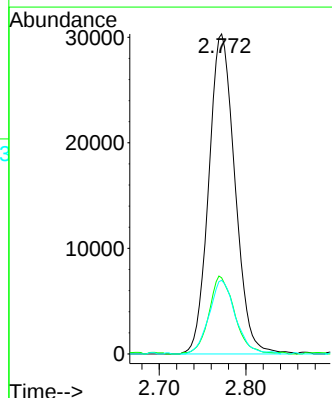
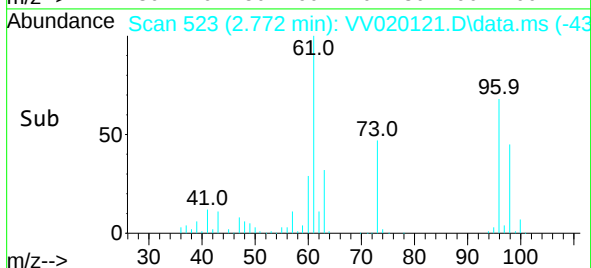
Tgt Ion: 96 Resp: 97396  
Ion Ratio Lower Upper  
96 100  
61 147.7 103.1 191.5  
98 64.1 43.1 80.1



#18  
Methyl tert-butyl Ether  
Concen: 7.08 ug/L  
RT: 2.772 min Scan# 523  
Delta R.T. 0.000 min  
Lab File: VV020121.D  
Acq: 21 Jan 2021 22:02



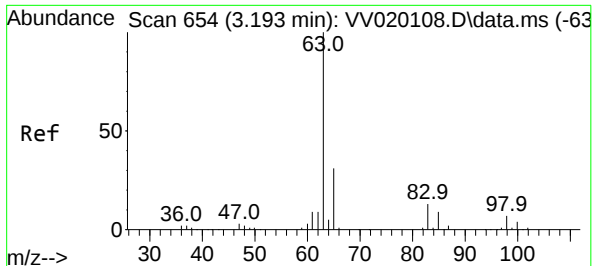
Tgt Ion: 73 Resp: 63512  
Ion Ratio Lower Upper  
73 100  
43 23.8 17.3 25.9  
57 23.1 17.9 26.9



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#19

1,1-Dichloroethane

Concen: 0.86 ug/L

RT: 3.203 min Scan# 657

Delta R.T. 0.010 min

Lab File: VV020121.D

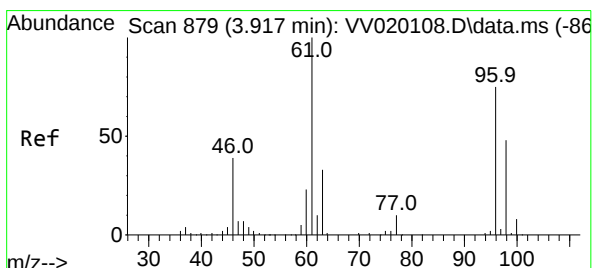
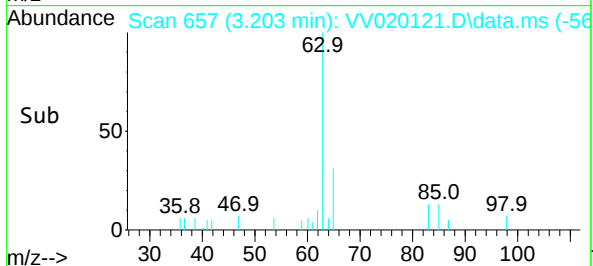
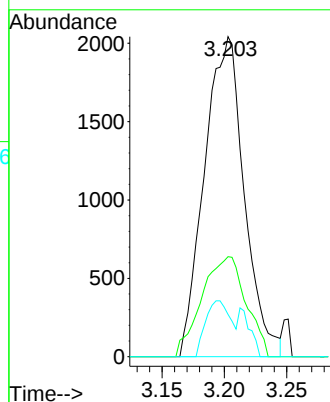
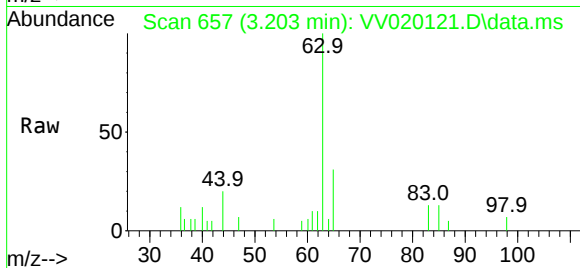
Acq: 21 Jan 2021 22:02

|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 4530  |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 65 31.2     | 21.9 40.7   |
| 83 13.2     | 9.5 17.7    |

Instrument :  
MSVOA\_V  
ClientSampled :  
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#20

cis-1,2-Dichloroethene

Concen: 8158.66 ug/L m

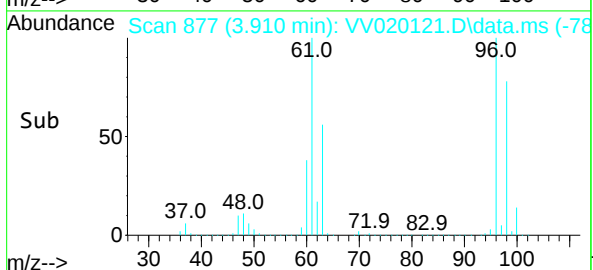
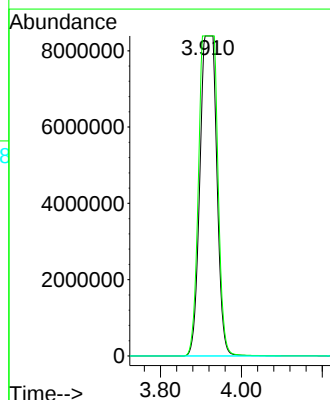
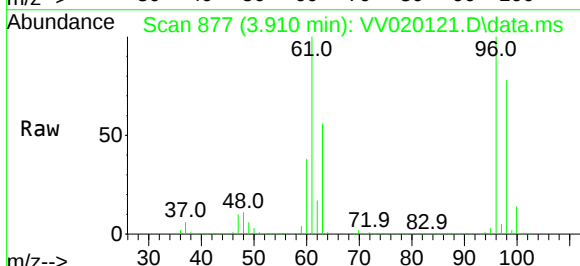
RT: 3.910 min Scan# 877

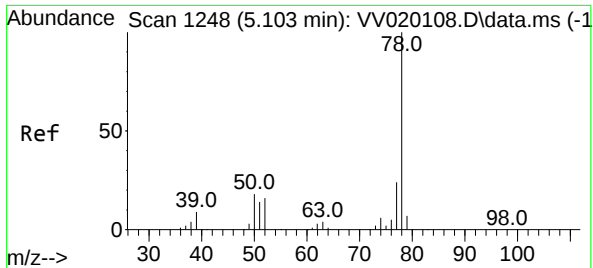
Delta R.T. -0.006 min

Lab File: VV020121.D

Acq: 21 Jan 2021 22:02

|             |                |
|-------------|----------------|
| Tgt Ion: 96 | Resp: 24226376 |
| Ion Ratio   | Lower Upper    |
| 96 100      |                |
| 61 100.0    | 96.9 179.9     |
| 68 0.0      | 0.0 0.0        |





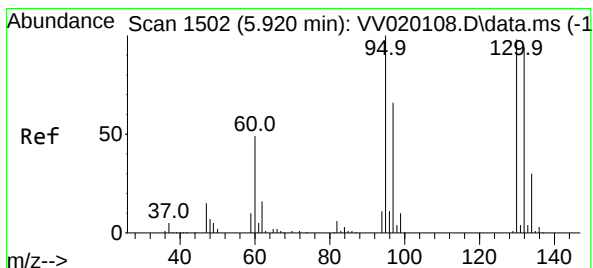
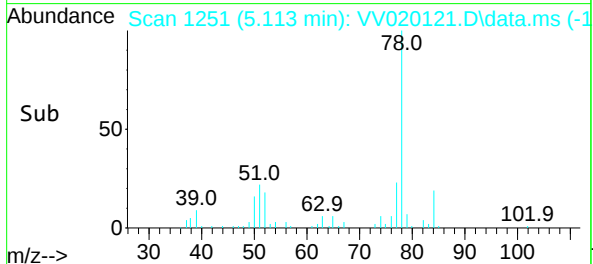
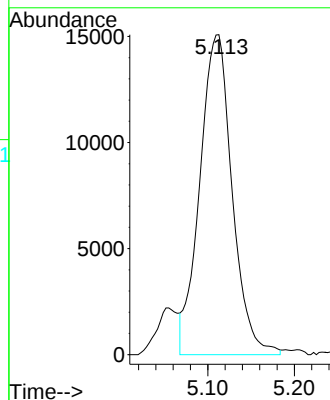
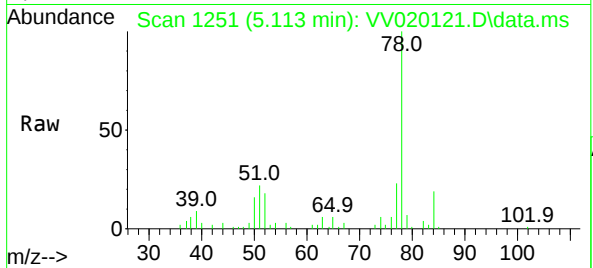
#33  
Benzene  
Concen: 2.90 ug/L  
RT: 5.113 min Scan# 1251  
Delta R.T. 0.010 min  
Lab File: VV020121.D  
Acq: 21 Jan 2021 22:02

Tgt Ion: 78 Resp: 39194

Instrument :  
MSVOA\_V  
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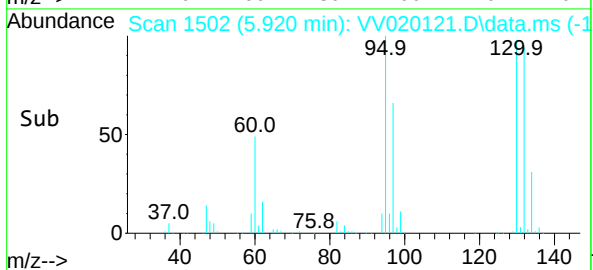
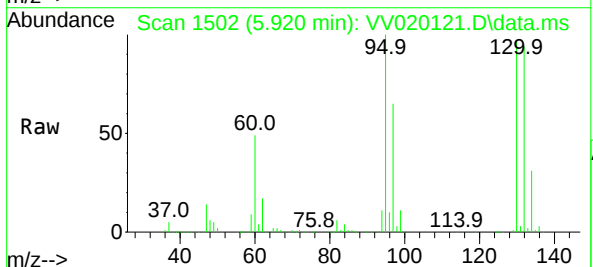
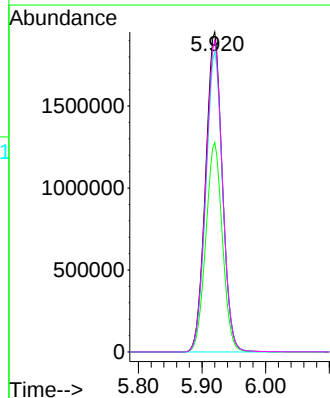
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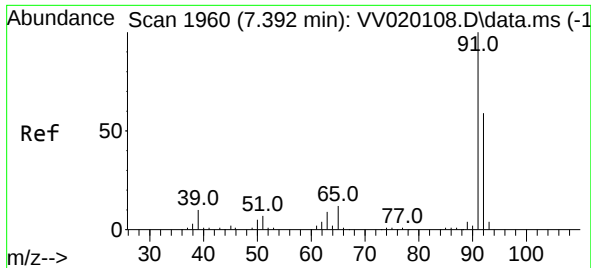


#34  
Trichloroethene  
Concen: 931.62 ug/L  
RT: 5.920 min Scan# 1502  
Delta R.T. 0.000 min  
Lab File: VV020121.D  
Acq: 21 Jan 2021 22:02

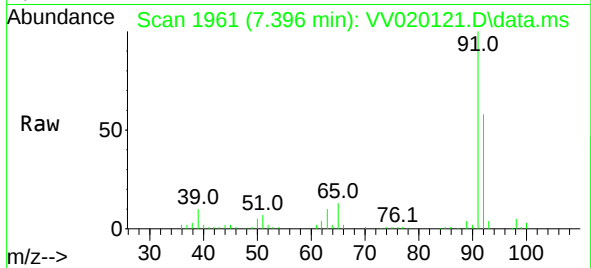
Tgt Ion: 95 Resp: 3565442

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.4  | 44.5  | 82.7  |
| 132 | 93.9  | 63.4  | 117.8 |
| 130 | 97.4  | 67.1  | 124.5 |

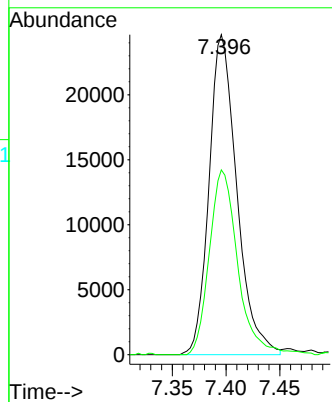
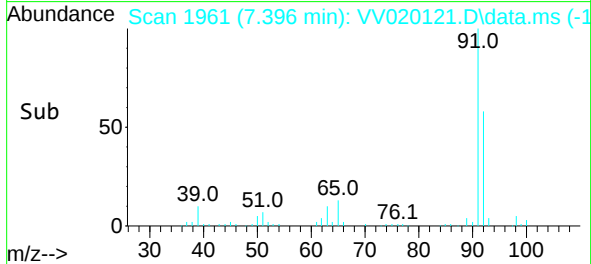




#42  
Toluene  
Concen: 3.08 ug/L  
RT: 7.396 min Scan# 1961  
Delta R.T. 0.003 min  
Lab File: VV020121.D  
Acq: 21 Jan 2021 22:02



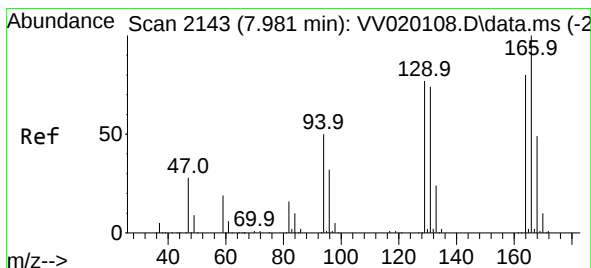
Tgt Ion: 91 Resp: 44236  
Ion Ratio Lower Upper  
91 100  
92 57.8 40.7 75.7



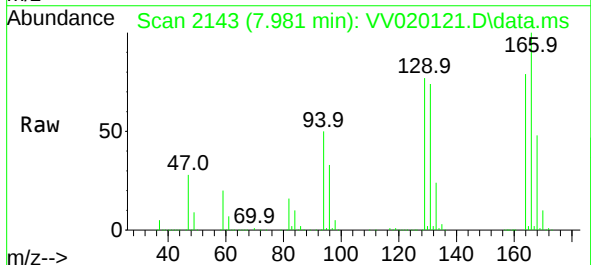
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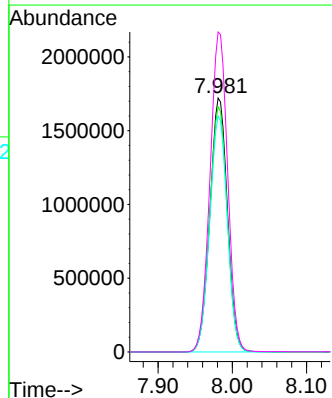
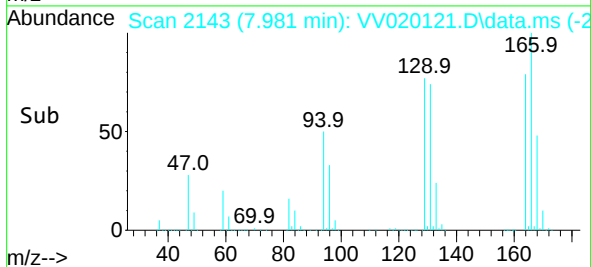
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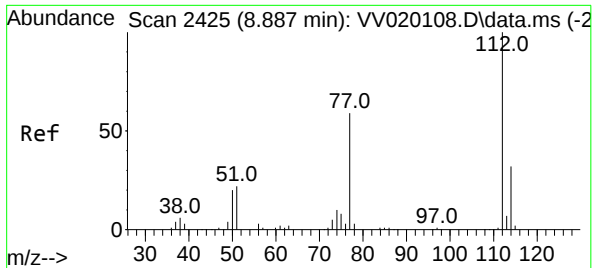


#46  
Tetrachloroethene  
Concen: 988.30 ug/L  
RT: 7.981 min Scan# 2143  
Delta R.T. 0.000 min  
Lab File: VV020121.D  
Acq: 21 Jan 2021 22:02

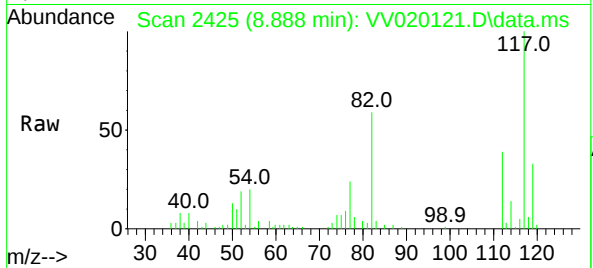


Tgt Ion: 164 Resp: 2823347  
Ion Ratio Lower Upper  
164 100  
129 96.6 70.6 131.0  
131 92.9 66.8 124.0  
166 126.0 88.2 163.8

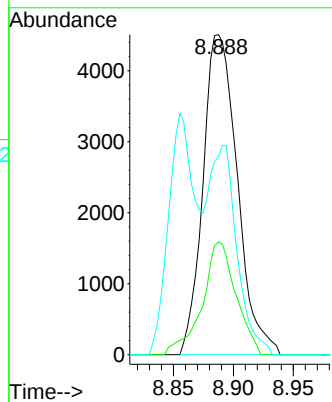
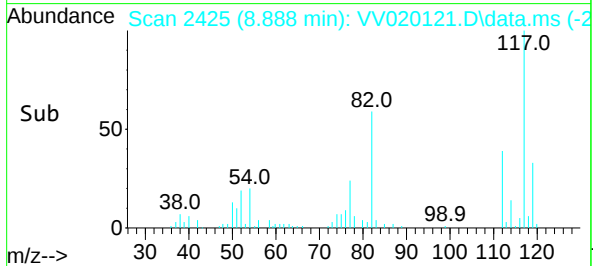




#51  
Chlorobenzene  
Concen: 0.95 ug/L  
RT: 8.888 min Scan# 2425  
Delta R.T. 0.000 min  
Lab File: VV020121.D  
Acq: 21 Jan 2021 22:02



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 8991 |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 114       | 35.2  | 22.2  | 41.2 |
| 77        | 61.8  | 49.0  | 73.6 |



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