

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121920\  
 Data File : VV019729.D  
 Acq On : 19 Dec 2020 11:26  
 Operator : SY/MD  
 Sample : L5099-04DL 8X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG4P9DL

Manual Integrations  
 APPROVED

SAM  
 12/21/2020 5:35:37 PM

Quant Time: Dec 21 04:00:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Dec 21 03:36:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.62  | 114  | 686089   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.86  | 117  | 616328   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.25 | 152  | 276624   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 202132   | 41.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 82.18%  |
| 7) Chloroethane-d5             | 1.57    | 69    | 180323   | 46.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.94%  |
| 11) 1,1-Dichloroethene-d2      | 2.11    | 63    | 288086   | 31.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 63.10%  |
| 21) 2-Butanone-d5              | 3.88    | 46    | 334863   | 125.23   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 125.23% |
| 24) Chloroform-d               | 4.35    | 84    | 428712   | 48.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.70%  |
| 26) 1,2-Dichloroethane-d4      | 5.03    | 65    | 309027   | 53.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 106.66% |
| 32) Benzene-d6                 | 5.05    | 84    | 820736   | 49.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.86%  |
| 36) 1,2-Dichloropropane-d6     | 6.07    | 67    | 275739   | 53.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 107.10% |
| 41) Toluene-d8                 | 7.32    | 98    | 663188   | 44.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.62%  |
| 43) trans-1,3-Dichloropropene- | 7.62    | 79    | 126958   | 43.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 86.70%  |
| 47) 2-Hexanone-d5              | 8.09    | 63    | 222180   | 109.94   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 109.94% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.22   | 84    | 344745   | 49.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 99.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.63   | 152   | 251163   | 48.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.14%  |

## Target Compounds

|                             |      |     |        |              | Ovalue |
|-----------------------------|------|-----|--------|--------------|--------|
| 13) Acetone                 | 2.17 | 43  | 10457  | 4.590 ug/L   | 96     |
| 18) Methyl tert-butyl Ether | 2.77 | 73  | 48815  | 3.118 ug/L # | 89     |
| 20) cis-1,2-Dichloroethene  | 3.92 | 96  | 4117m  | 0.836 ug/L   |        |
| 34) Trichloroethene         | 5.92 | 95  | 113671 | 23.889 ug/L  | 98     |
| 46) Tetrachloroethene       | 7.98 | 164 | 276609 | 84.012 ug/L  | 100    |

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

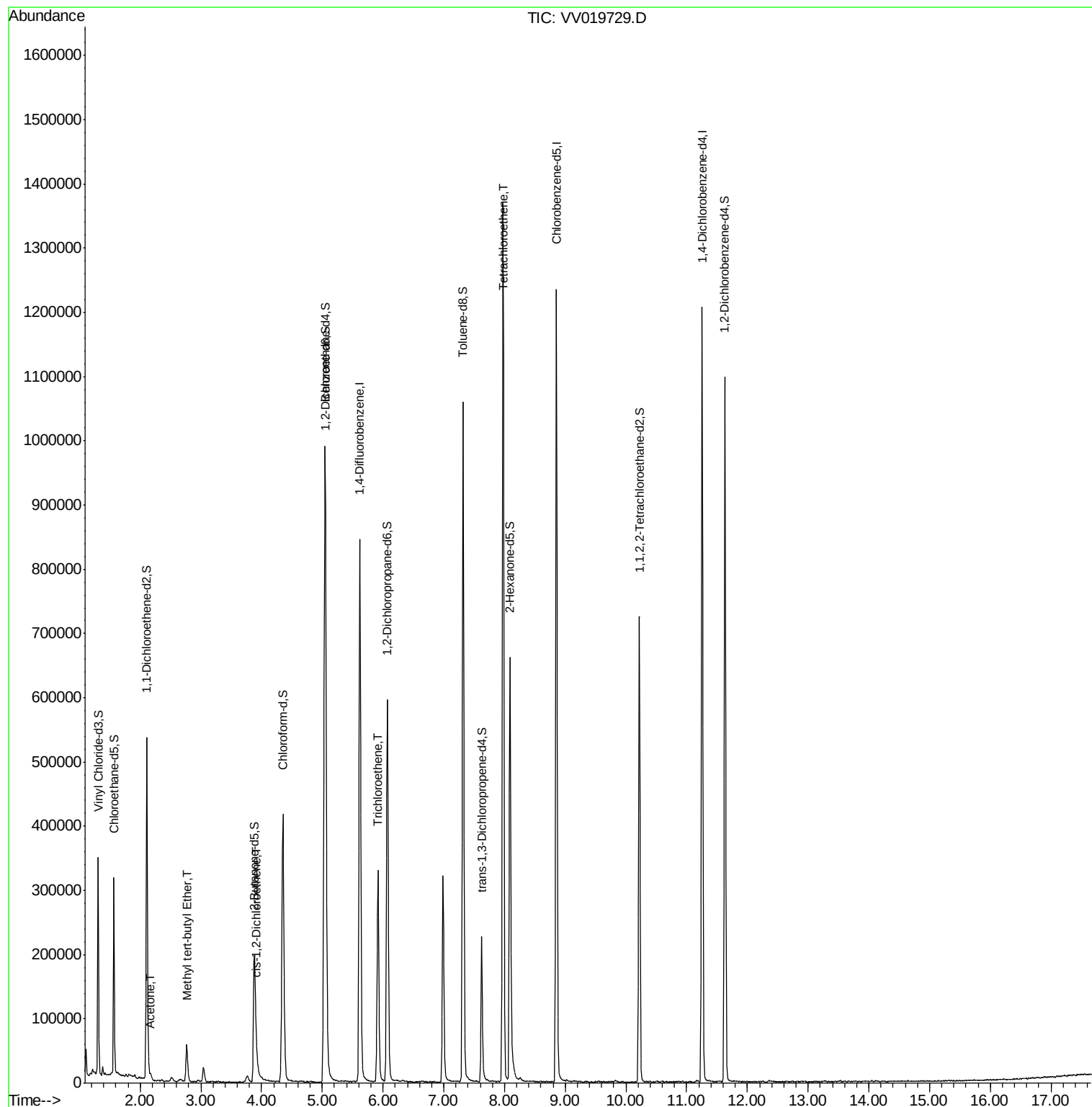
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV121920\  
Data File : VV019729.D  
Acq On : 19 Dec 2020 11:26  
Operator : SY/MD  
Sample : L5099-04DL 8X  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

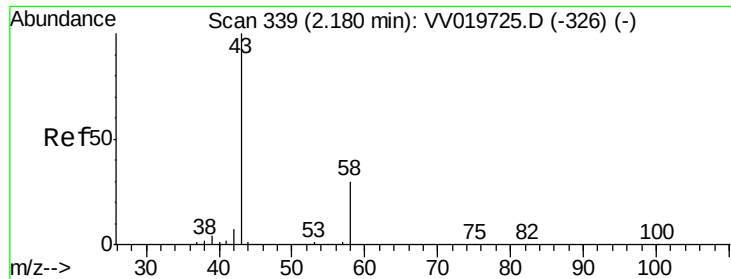
Instrument :  
MSVOA\_V  
ClientSampleId :  
BG4P9DL

Manual Integrations  
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Quant Time: Dec 21 04:00:45 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Dec 21 03:36:59 2020  
Response via : Initial Calibration





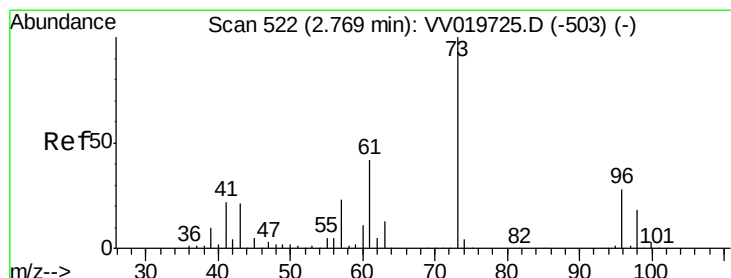
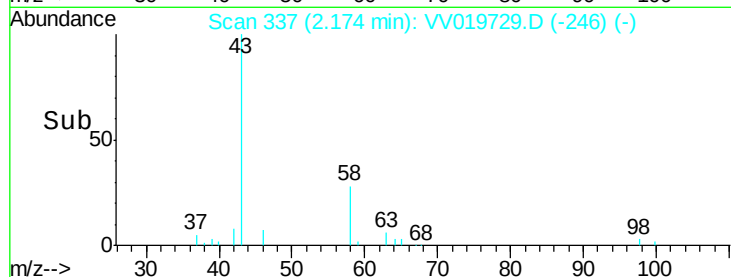
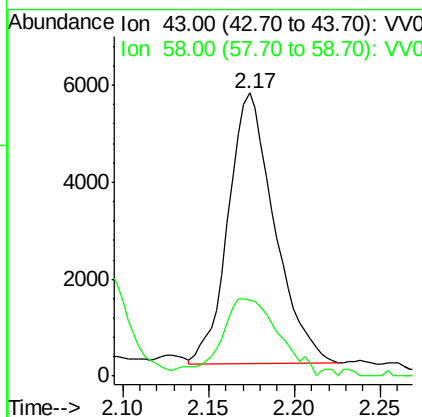
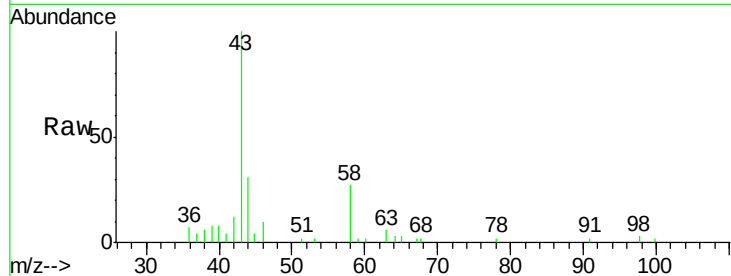
#13  
Acetone  
Concen: 4.590 ug/L  
RT: 2.17 min Scan# 337  
Delta R.T. -0.01 min  
Lab File: VV019729.D  
Acq: 19 Dec 2020 11:26

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG4P9DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 33.2  | 0.0   | 61.6  |

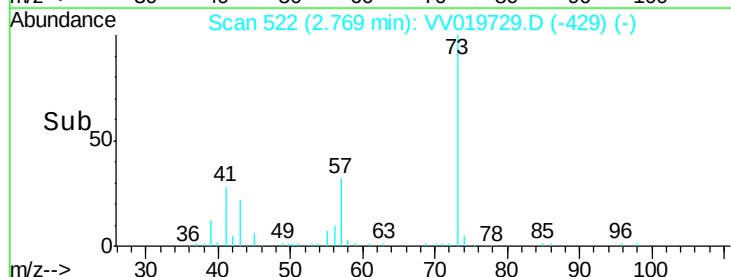
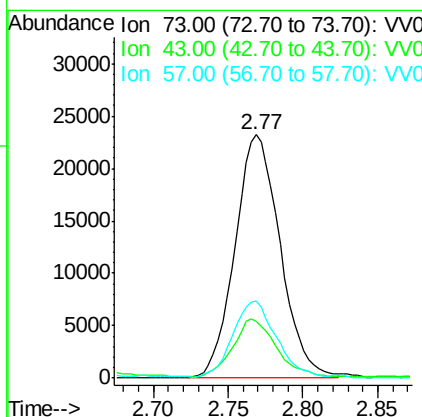
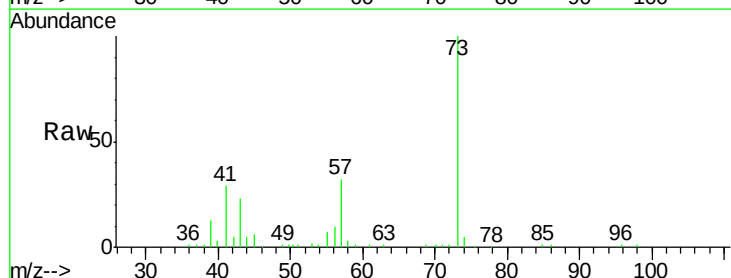
Manual Integrations  
APPROVED

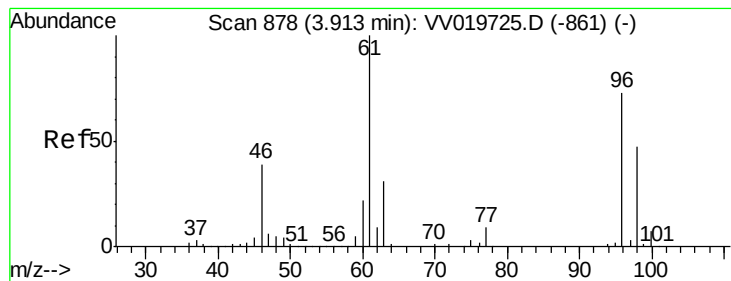
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#18  
Methyl tert-butyl Ether  
Concen: 3.118 ug/L  
RT: 2.77 min Scan# 522  
Delta R.T. -0.00 min  
Lab File: VV019729.D  
Acq: 19 Dec 2020 11:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 22.8  | 17.3  | 25.9  |
| 57      | 31.0  | 17.5  | 26.3  |





#20

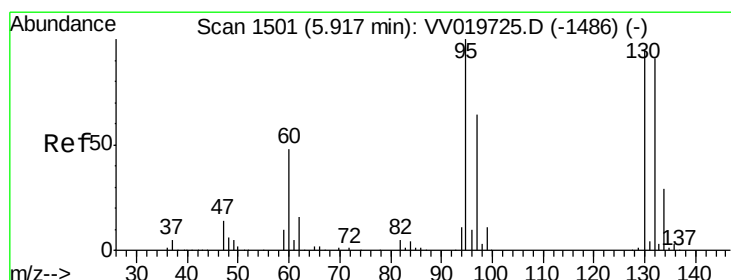
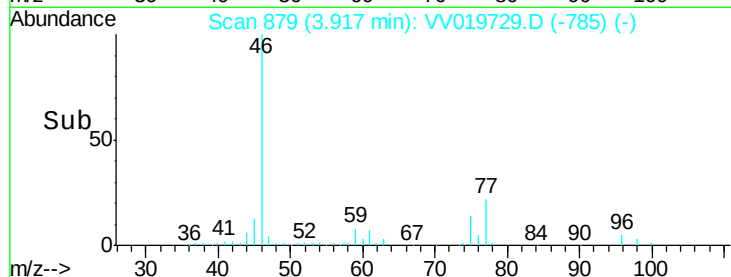
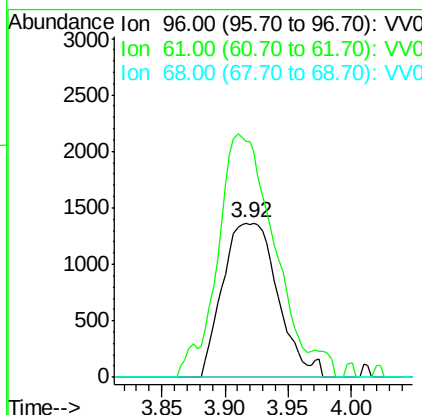
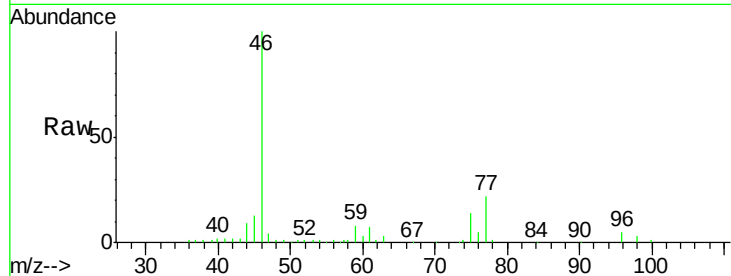
cis-1,2-Dichloroethene  
 Concen: 0.836 ug/L m  
 RT: 3.92 min Scan# 879  
 Delta R.T. 0.00 min  
 Lab File: VV019729.D  
 Acq: 19 Dec 2020 11:26

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG4P9DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 153.0 | 94.1  | 174.8 |
| 68      | 0.0   | 0.1   | 0.1#  |

Manual Integrations  
 APPROVED

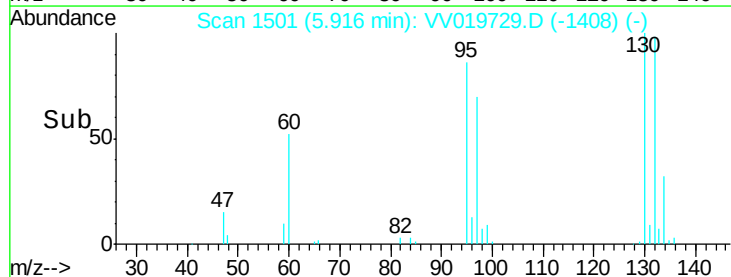
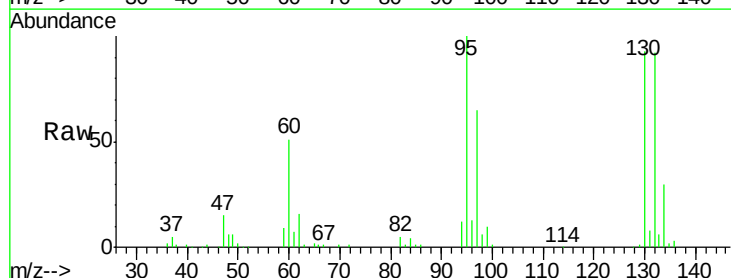
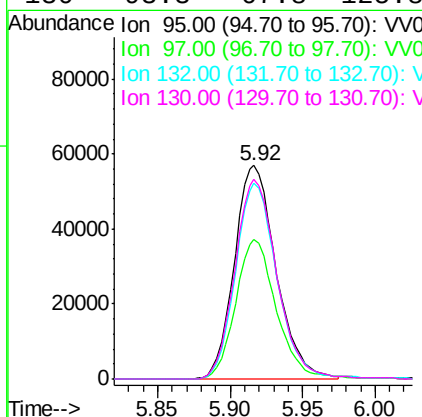
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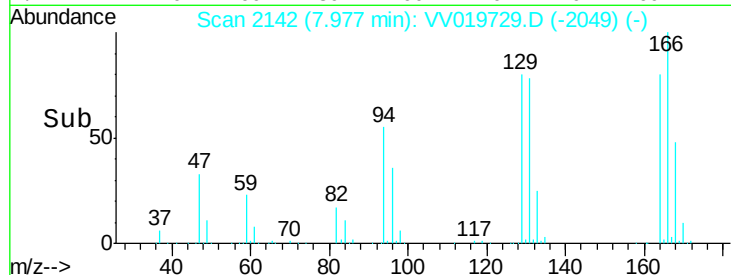
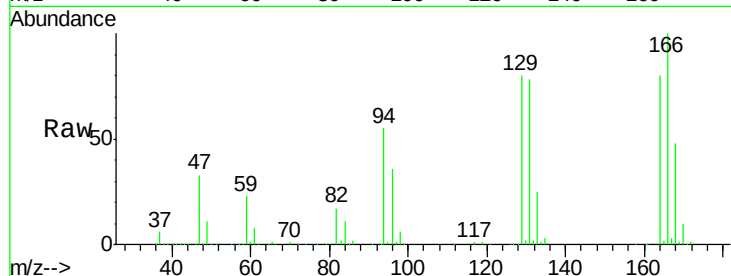
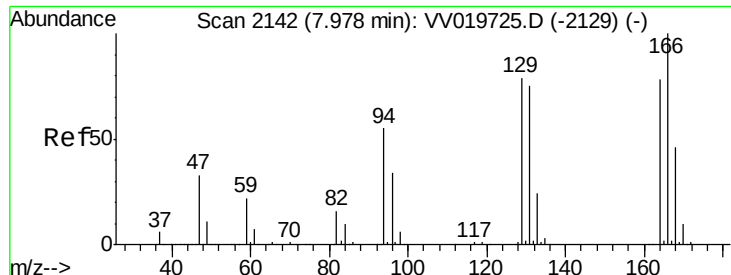


#34

Trichloroethene  
 Concen: 23.889 ug/L  
 RT: 5.92 min Scan# 1501  
 Delta R.T. -0.00 min  
 Lab File: VV019729.D  
 Acq: 19 Dec 2020 11:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 65.2  | 44.4  | 82.4  |
| 132     | 91.6  | 64.3  | 119.3 |
| 130     | 93.3  | 67.8  | 125.8 |





#46

Tetrachloroethene

Concen: 84.012 ug/L

RT: 7.98 min Scan# 2142

Delta R.T. -0.00 min

Lab File: VV019729.D

Acq: 19 Dec 2020 11:26

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 276609 |       |       |
| 129     | 100.2 |        | 70.6  | 131.0 |
| 131     | 96.7  |        | 68.0  | 126.4 |
| 166     | 124.5 |        | 86.9  | 161.5 |

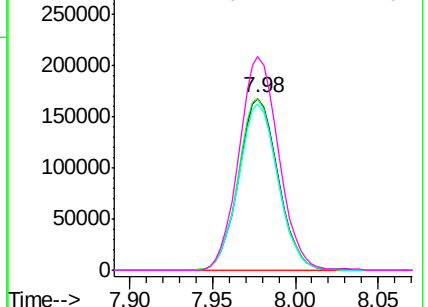
Abundance

Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



Instrument :  
MSVOA\_V  
ClientSampleId :  
BG4P9DL

Manual Integrations  
APPROVED

SAM  
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