

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV071020\  
 Data File : VV017437.D  
 Acq On : 10 Jul 2020 14:10  
 Operator : SY/MD  
 Sample : L3254-14  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F4A45

Manual Integrations  
 APPROVED

MMDadoda  
 7/13/2020 11:44:08 AM

Quant Time: Jul 11 00:55:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM070820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jul 11 00:23:19 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 229055   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 218956   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 105781   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 55375    | 46.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.88%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 41573    | 49.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 99.26%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 98510    | 36.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 72.98%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 87596    | 107.55   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 107.55% |
| 24) Chloroform-d               | 4.38    | 84    | 142592   | 51.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.40% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 104860   | 55.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 110.78% |
| 32) Benzene-d6                 | 5.08    | 84    | 248027   | 52.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.88% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 70787    | 51.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 103.94% |
| 41) Toluene-d8                 | 7.34    | 98    | 230310   | 50.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.30% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 40625    | 51.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 102.50% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 56818    | 101.65   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 101.65% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 93520    | 48.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 99791    | 56.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 112.84% |

## Target Compounds

|                            |      |     |        |             | Ovalue |
|----------------------------|------|-----|--------|-------------|--------|
| 13) Acetone                | 2.19 | 43  | 8340   | 7.522 ug/L  | 100    |
| 19) 1,1-Dichloroethane     | 3.22 | 63  | 3698   | 1.344 ug/L  | 96     |
| 20) cis-1,2-Dichloroethene | 3.94 | 96  | 56955m | 35.530 ug/L |        |
| 34) Trichloroethene        | 5.94 | 95  | 1982   | 1.153 ug/L  | 80     |
| 46) Tetrachloroethene      | 8.00 | 164 | 5359   | 3.714 ug/L  | 84     |

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

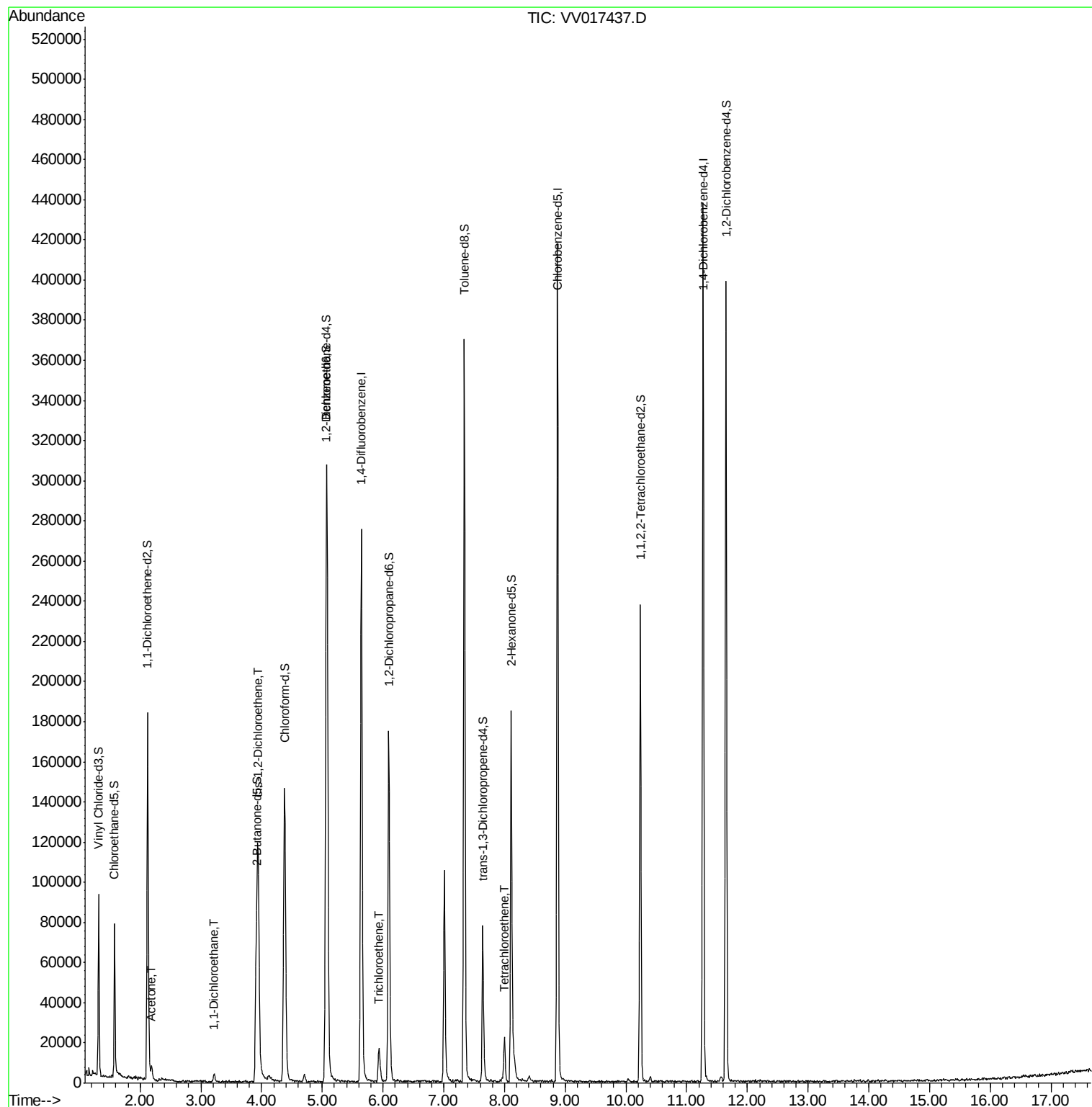
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV071020\  
Data File : VV017437.D  
Acq On : 10 Jul 2020 14:10  
Operator : SY/MD  
Sample : L3254-14  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 10 Sample Multiplier: 1

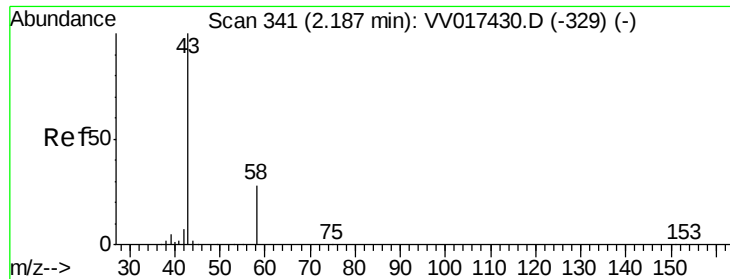
Instrument :  
MSVOA\_V  
ClientSampleId :  
F4A45

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Quant Time: Jul 11 00:55:03 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM070820WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jul 11 00:23:19 2020  
Response via : Initial Calibration





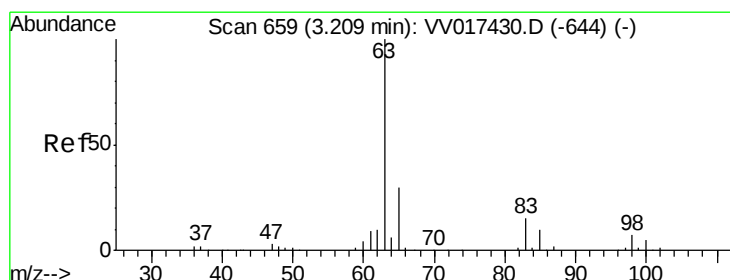
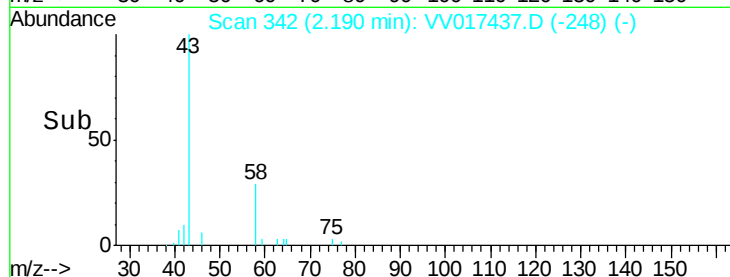
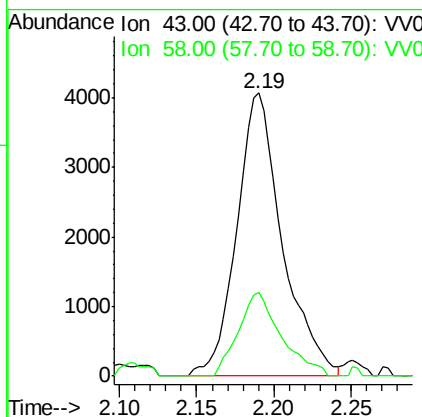
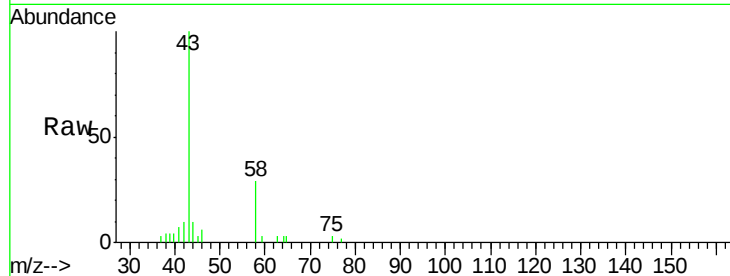
#13  
Acetone  
Concen: 7.522 ug/L  
RT: 2.19 min Scan# 342  
Delta R.T. 0.00 min  
Lab File: VV017437.D  
Acq: 10 Jul 2020 14:10

Instrument :  
MSVOA\_V  
ClientSampled :  
F4A45

| Tot Ion   | 43   | Resp  | 8340  |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 58        | 27.8 | 0.0   | 56.0  |

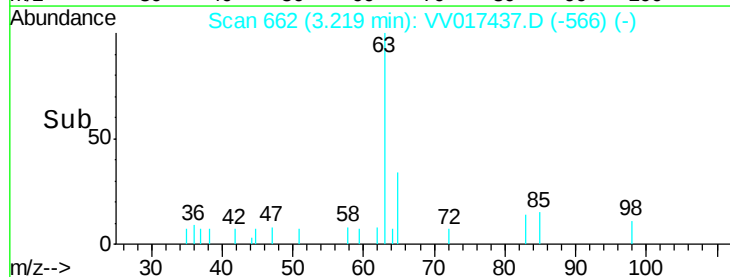
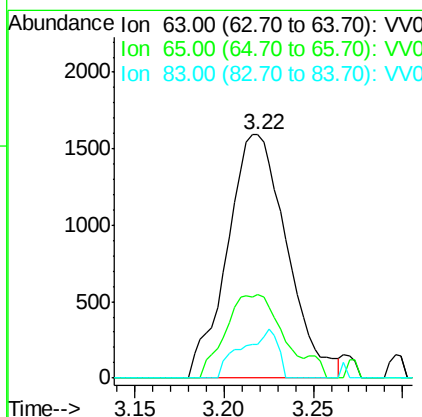
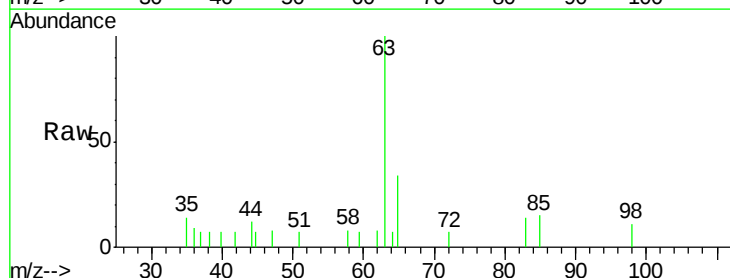
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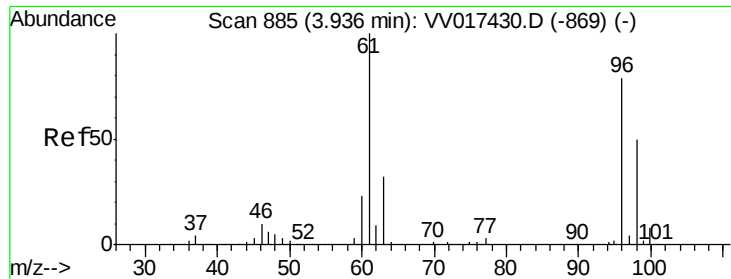
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#19  
1,1-Dichloroethane  
Concen: 1.344 ug/L  
RT: 3.22 min Scan# 662  
Delta R.T. 0.01 min  
Lab File: VV017437.D  
Acq: 10 Jul 2020 14:10

| Tgt Ion   | 63   | Resp  | 3698  |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 65        | 34.3 | 22.1  | 41.1  |
| 83        | 13.9 | 10.1  | 18.9  |





#20

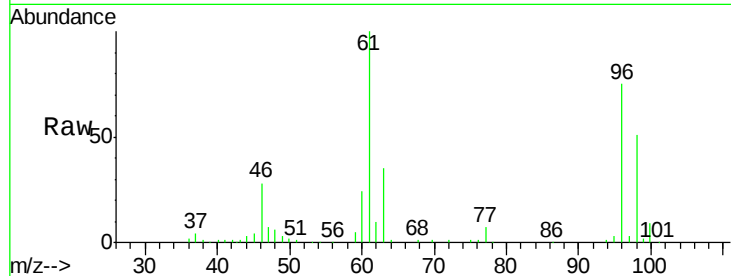
cis-1,2-Dichloroethene  
Concen: 35.530 ug/L m  
RT: 3.94 min Scan# 887  
Delta R.T. 0.01 min  
Lab File: VV017437.D  
Acq: 10 Jul 2020 14:10

Instrument :  
MSVOA\_V  
ClientSampleId :  
F4A45

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 96      | 100   | 56955 |       |       |
| 61      | 132.7 |       | 88.9  | 165.1 |
| 68      | 0.7   |       | 0.0   | 0.0#  |

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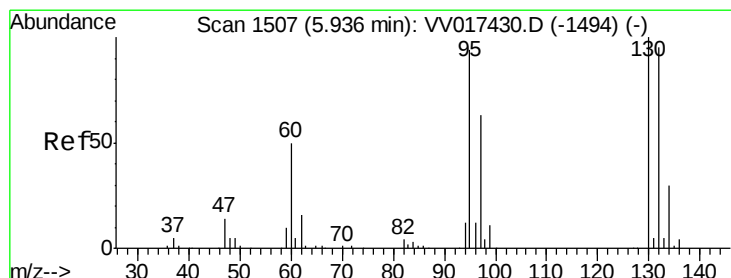
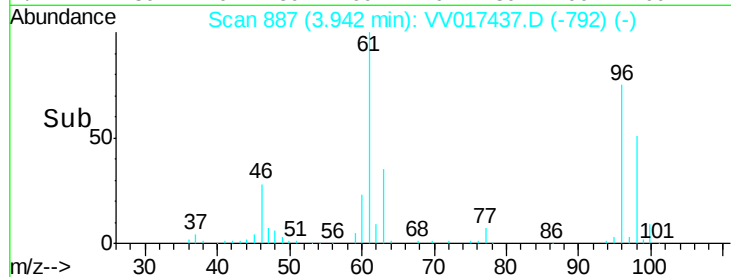
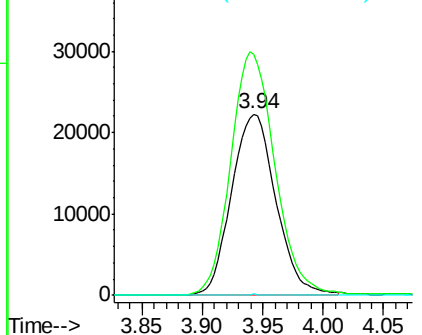


Abundance

Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0



#34

Trichloroethene  
Concen: 1.153 ug/L  
RT: 5.94 min Scan# 1509  
Delta R.T. 0.01 min  
Lab File: VV017437.D  
Acq: 10 Jul 2020 14:10

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 95      | 100   | 1982 |       |       |
| 97      | 48.4  |      | 45.6  | 84.6  |
| 132     | 90.7  |      | 74.1  | 137.5 |
| 130     | 83.3  |      | 75.5  | 140.3 |

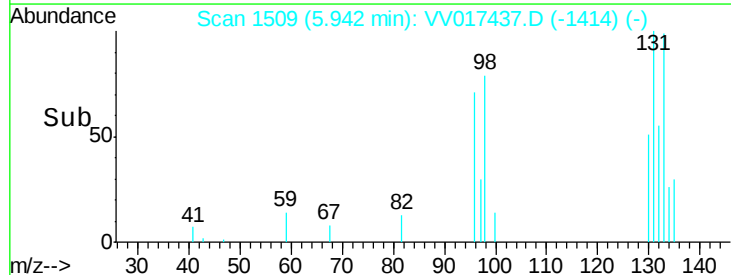
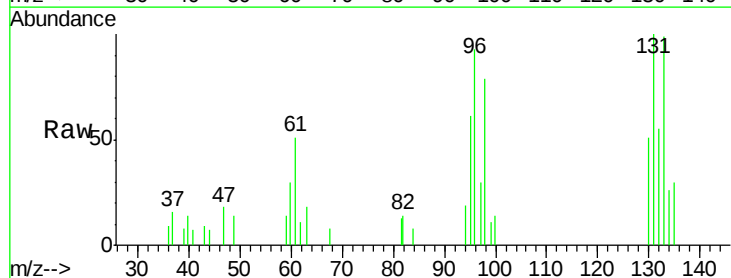
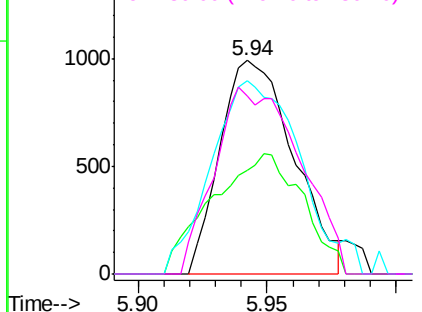
Abundance

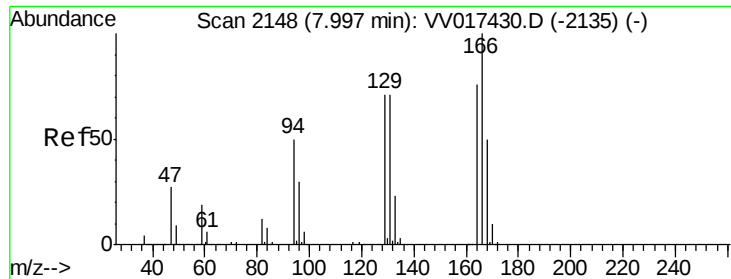
Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

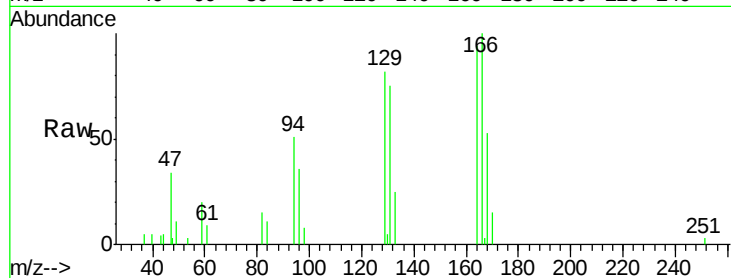
Ion 130.00 (129.70 to 130.70): VV0





#46  
Tetrachloroethene  
Concen: 3.714 ug/L  
RT: 8.00 min Scan# 2148  
Delta R.T. -0.00 min  
Lab File: VV017437.D  
Acq: 10 Jul 2020 14:10

Instrument :  
MSVOA\_V  
ClientSampleId :  
F4A45



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 164   | Resp: | 5359  |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 129       | 88.0  | 66.6  | 123.8 |
| 131       | 80.3  | 65.5  | 121.7 |
| 166       | 106.8 | 93.9  | 174.5 |

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