

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV090619\  
 Data File : VV012609.D  
 Acq On : 06 Sep 2019 20:27  
 Operator : SY/MD  
 Sample : K4703-08  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFD91

Quant Time: Sep 07 02:45:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR090519WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Sep 07 01:06:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 108458   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 113435   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 36016    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 50268    | 4.95     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 99.00%   |
| 7) Chloroethane-d5             | 1.58   | 69    | 56534    | 6.15     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 123.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 76484    | 3.22     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 64.40%   |
| 20) 2-Butanone-d5              | 3.95   | 46    | 164609   | 83.21    | ug/L | -0.02    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 166.42%# |
| 24) Chloroform-d               | 4.40   | 84    | 82416    | 5.34     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 106.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 52411    | 6.50     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 130.00%  |
| 32) Benzene-d6                 | 5.10   | 84    | 141429   | 4.93     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.60%   |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 52985    | 5.75     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 115.00%  |
| 41) Toluene-d8                 | 7.36   | 98    | 108838   | 4.29     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.80%   |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 15499    | 4.79     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 95.80%   |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 87972    | 71.16    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 142.32%# |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 41351    | 6.34     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 126.80%# |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 37090    | 6.17     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 123.40%# |

## Target Compounds

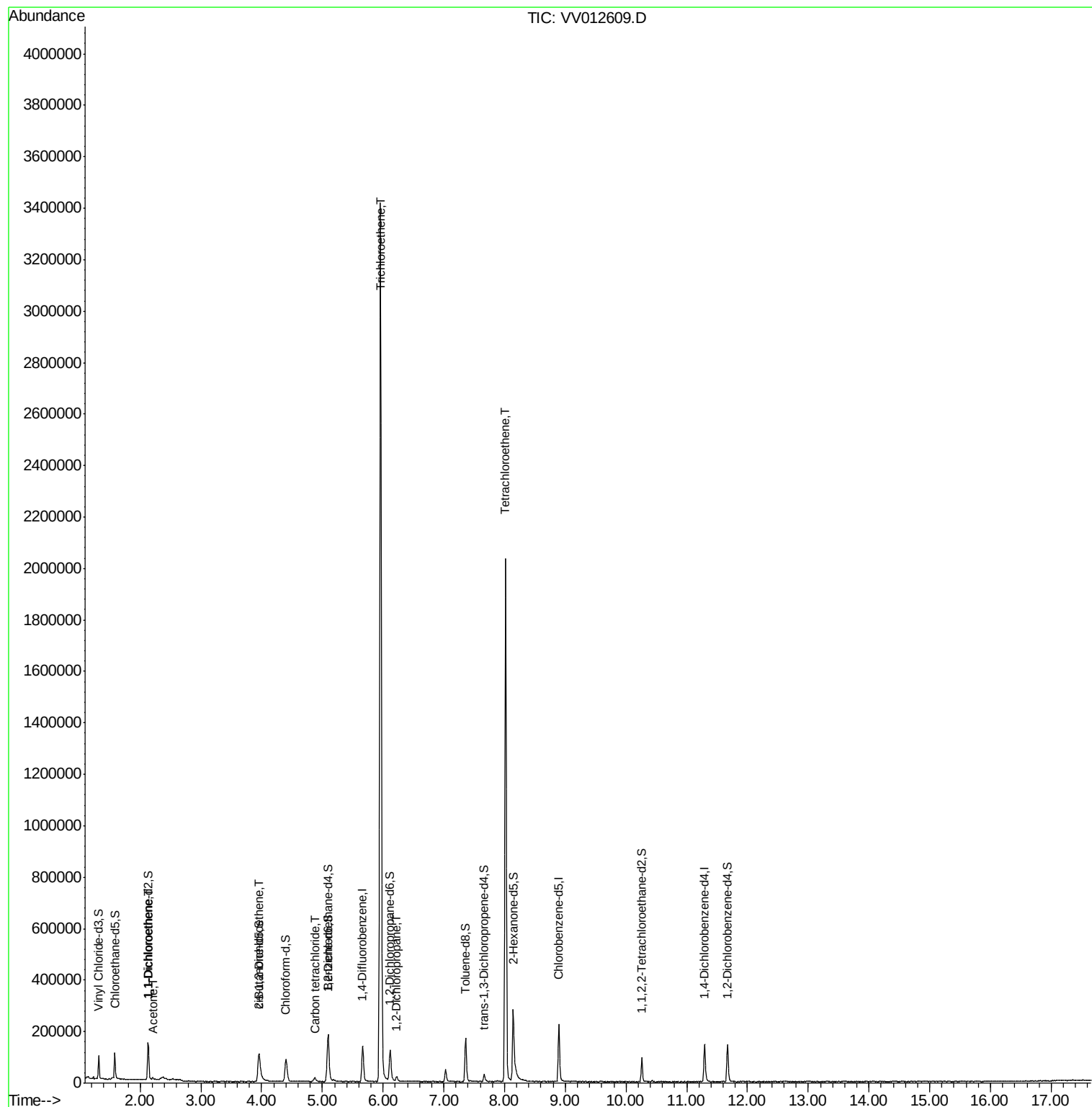
|                            |      |     |         |              | Ovalue |
|----------------------------|------|-----|---------|--------------|--------|
| 12) 1,1-Dichloroethene     | 2.14 | 96  | 5295    | 0.410 ug/L # | 1      |
| 13) Acetone                | 2.21 | 43  | 7578    | 3.158 ug/L   | 82     |
| 22) cis-1,2-Dichloroethene | 3.96 | 96  | 17733   | 1.747 ug/L   | 89     |
| 31) Carbon tetrachloride   | 4.87 | 117 | 10277   | 0.694 ug/L   | 99     |
| 34) Trichloroethene        | 5.96 | 95  | 1118733 | 97.790 ug/L  | 99     |
| 37) 1,2-Dichloropropane    | 6.23 | 63  | 6042    | 0.561 ug/L # | 91     |
| 47) Tetrachloroethene      | 8.02 | 164 | 407105  | 48.817 ug/L  | 98     |

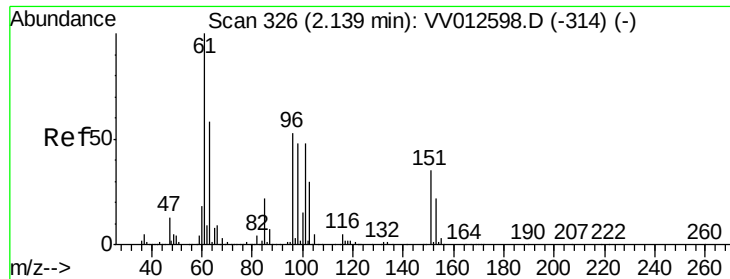
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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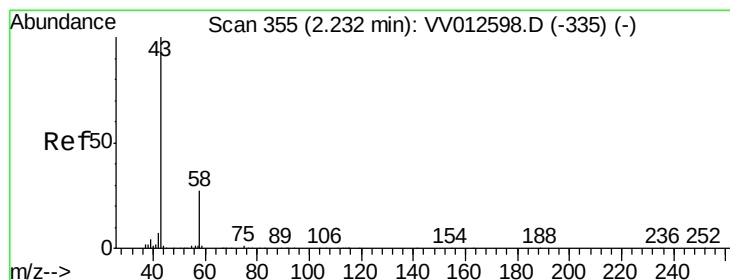
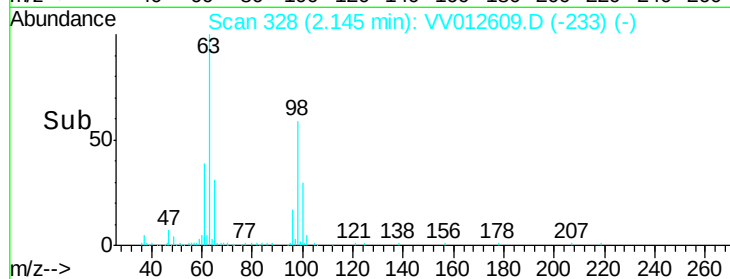
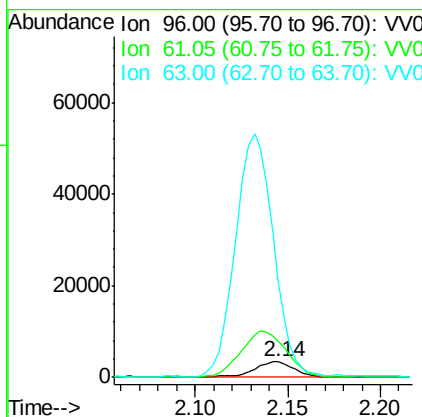
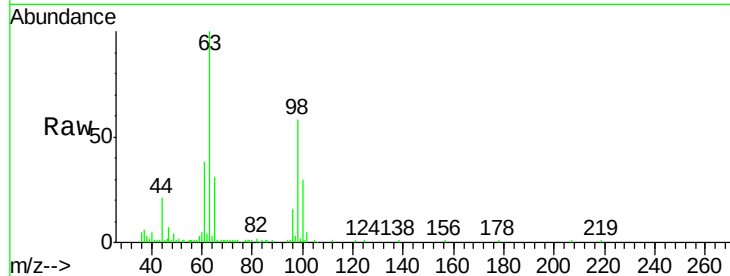




#12  
 1,1-Dichloroethene  
 Concen: 0.410 ug/L  
 RT: 2.14 min Scan# 328  
 Delta R.T. 0.01 min  
 Lab File: VV012609.D  
 Acq: 06 Sep 2019 20:27

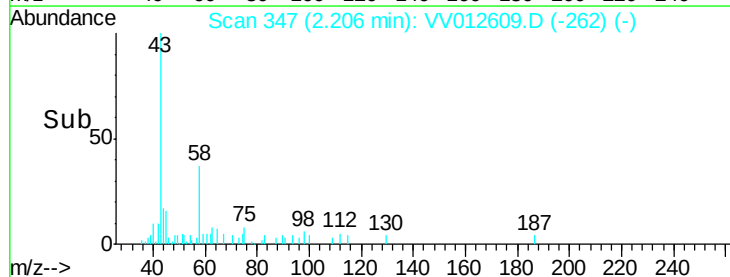
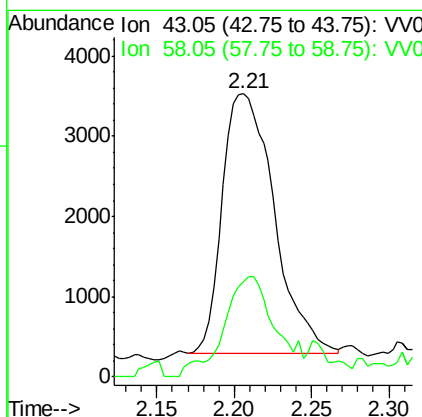
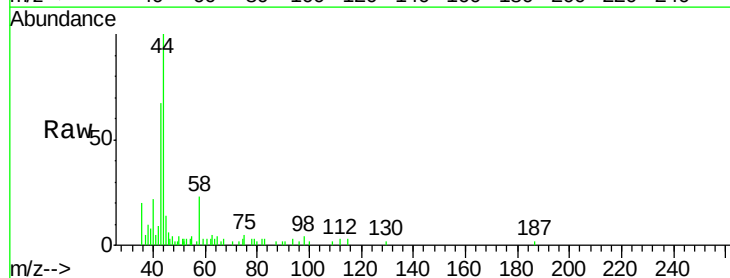
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFD91

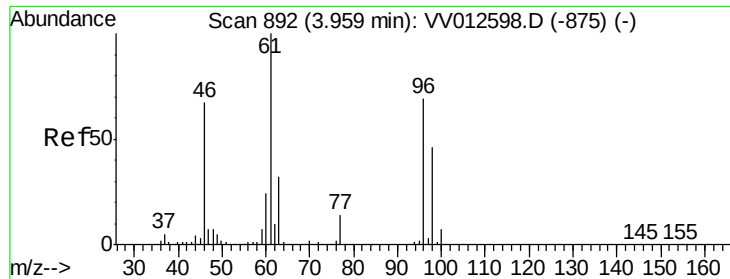
Tot Ion: 96 Resp: 5295  
 Ion Ratio Lower Upper  
 96 100  
 61 233.2 132.7 246.5  
 63 610.7 84.1 156.1#



#13  
 Acetone  
 Concen: 3.158 ug/L  
 RT: 2.21 min Scan# 347  
 Delta R.T. -0.03 min  
 Lab File: VV012609.D  
 Acq: 06 Sep 2019 20:27

Tgt Ion: 43 Resp: 7578  
 Ion Ratio Lower Upper  
 43 100  
 58 38.0 0.0 57.0



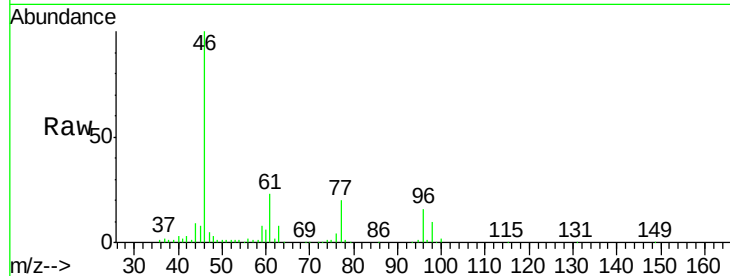


#22

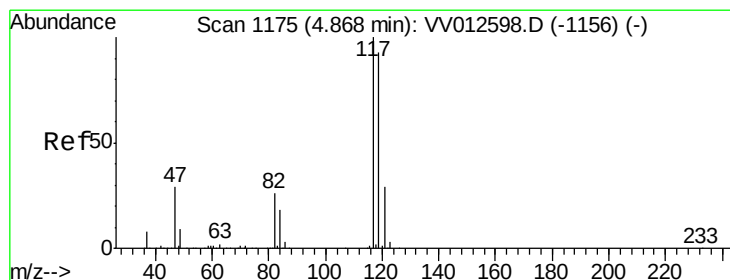
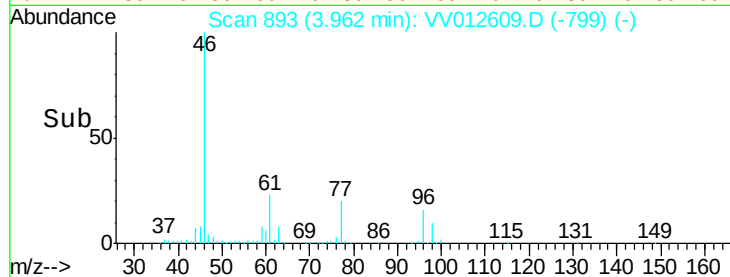
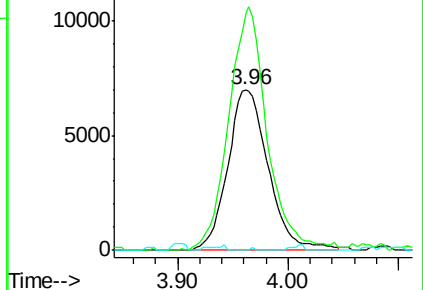
cis-1,2-Dichloroethene  
Concen: 1.747 ug/L  
RT: 3.96 min Scan# 893  
Delta R.T. 0.00 min  
Lab File: VV012609.D  
Acq: 06 Sep 2019 20:27

Instrument :  
MSVOA\_V  
ClientSampled :  
BFD91

Tot Ion: 96 Resp: 17733  
Ion Ratio Lower Upper  
96 100  
61 147.1 93.9 174.5  
68 0.0 0.0 0.0



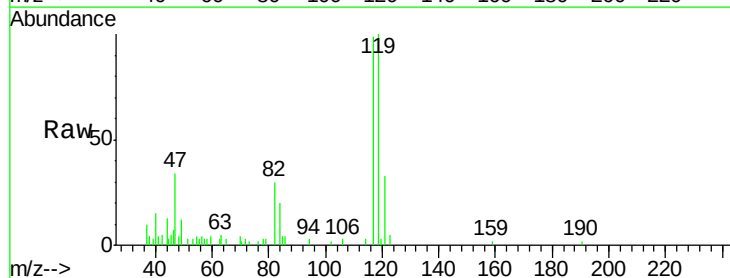
Abundance Ion 96.00 (95.70 to 96.70): VV012598.D (-875) (-)  
Ion 61.05 (60.75 to 61.75): VV012598.D (-875) (-)  
Ion 68.15 (67.85 to 68.85): VV012598.D (-875) (-)



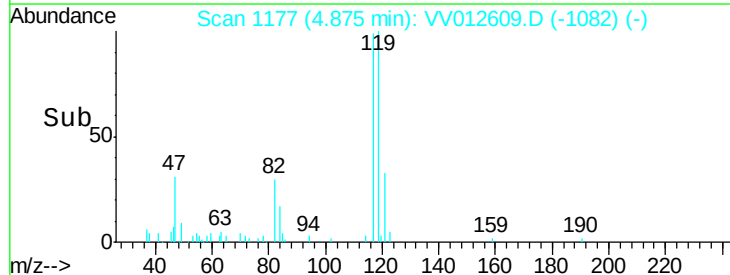
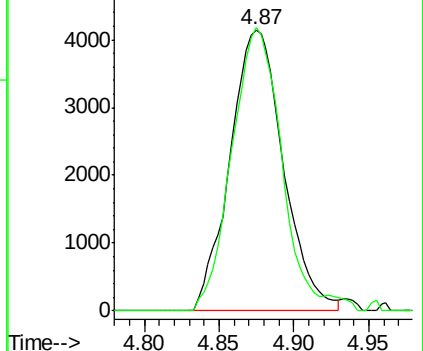
#31

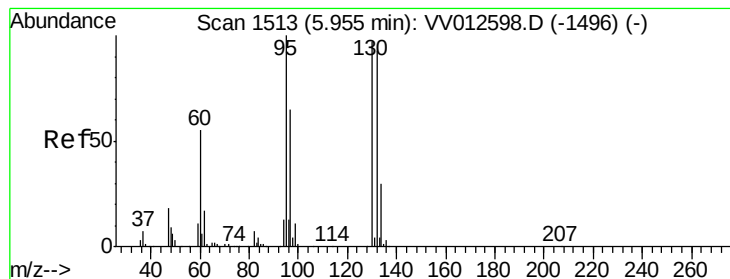
Carbon tetrachloride  
Concen: 0.694 ug/L  
RT: 4.87 min Scan# 1177  
Delta R.T. 0.01 min  
Lab File: VV012609.D  
Acq: 06 Sep 2019 20:27

Tgt Ion: 117 Resp: 10277  
Ion Ratio Lower Upper  
117 100  
119 95.1 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): VV012598.D (-1156) (-)  
Ion 118.90 (118.60 to 119.60): VV012598.D (-1156) (-)





#34

Trichloroethene

Concen: 97.790 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012609.D

Acq: 06 Sep 2019 20:27

Instrument :

MSVOA\_V

ClientSampleId :

BFD91

Tot Ion: 95 Resp: 1118733

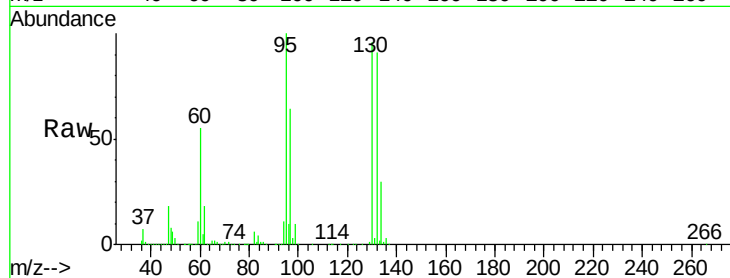
Ion Ratio Lower Upper

95 100

97 64.2 43.9 81.5

132 91.1 64.8 120.4

130 96.0 67.1 124.7

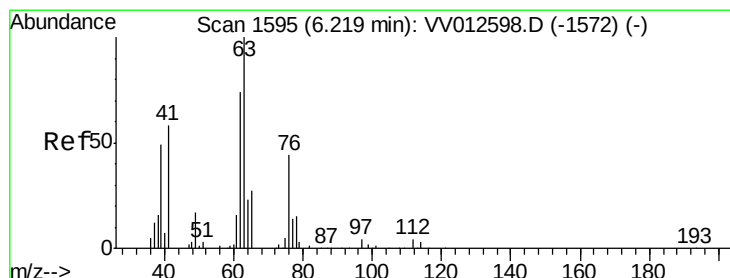
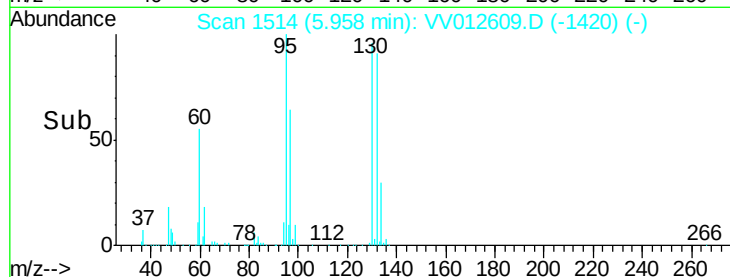
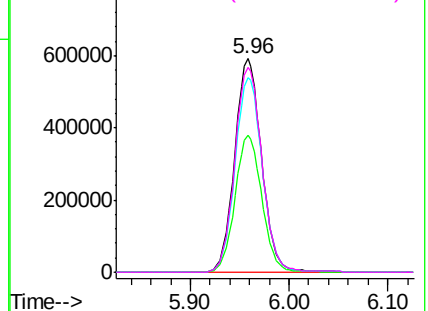


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#37

1,2-Dichloropropane

Concen: 0.561 ug/L

RT: 6.23 min Scan# 1597

Delta R.T. 0.01 min

Lab File: VV012609.D

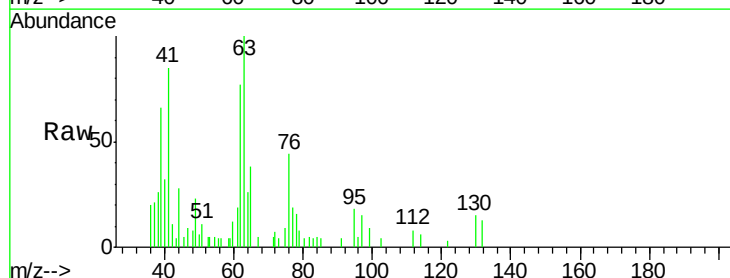
Acq: 06 Sep 2019 20:27

Tgt Ion: 63 Resp: 6042

Ion Ratio Lower Upper

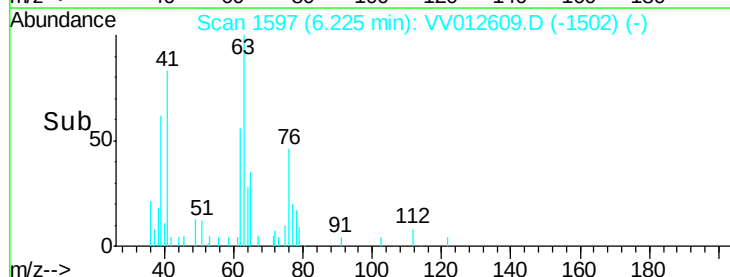
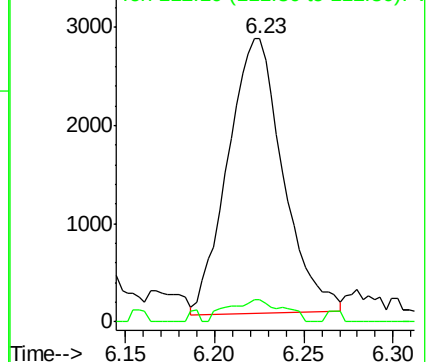
63 100

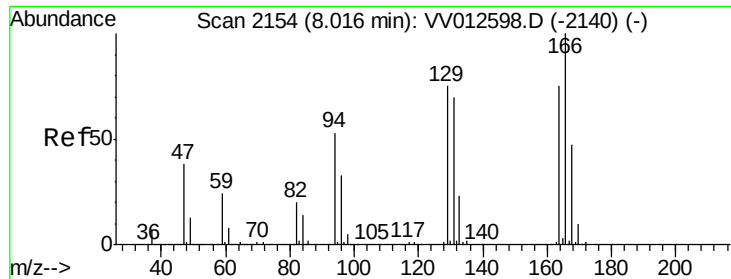
112 8.0 3.9 5.9#



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 112.10 (111.80 to 112.80): V

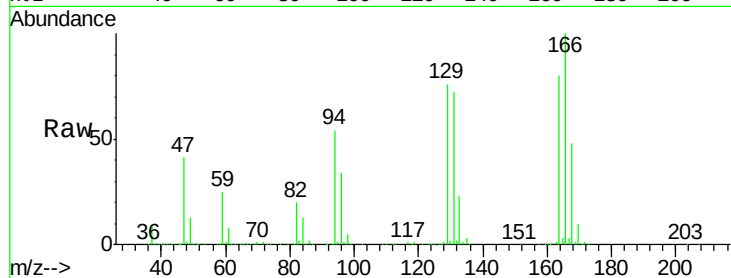




#47  
Tetrachloroethene  
Concen: 48.817 ug/L  
RT: 8.02 min Scan# 2154  
Delta R.T. -0.00 min  
Lab File: VV012609.D  
Acq: 06 Sep 2019 20:27

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFD91

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 129     | 95.6  | 65.0  | 120.6 |
| 131     | 90.1  | 62.0  | 115.2 |
| 166     | 125.2 | 87.0  | 161.6 |



Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

