

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082720\  
 Data File : VW016390.D  
 Acq On : 27 Aug 2020 15:02  
 Operator : SY/VA  
 Sample : L3800-05  
 Misc : 6.01G/10ML/MSVOA W/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG3H5

Manual Integrations  
 APPROVED

MMDadoda  
 8/28/2020 3:18:26 PM

Quant Time: Aug 28 08:59:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM082420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 28 08:08:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 281095   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 237357   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 96316    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 47835    | 15.94    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 63.76%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 42085    | 18.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 73.88%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 98765    | 13.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 55.40%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 37369    | 43.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 87.56%  |
| 24) Chloroform-d               | 7.65   | 84    | 161758   | 22.07    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 88.28%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 86055    | 22.79    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 91.16%  |
| 29) Benzene-d6                 | 8.27   | 84    | 302293   | 22.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 91.24%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 88968    | 24.26    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 97.04%  |
| 37) Toluene-d8                 | 10.32  | 98    | 272615   | 21.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 87.24%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 38295    | 21.64    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 86.56%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 32446    | 55.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 110.46% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 72972    | 23.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 95.64%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 81743    | 22.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 88.52%  |

## Target Compounds

|                            |       |     |         |               | Ovalue |
|----------------------------|-------|-----|---------|---------------|--------|
| 5) Vinyl chloride          | 2.36  | 62  | 11081   | 3.374 ug/L    | 88     |
| 16) Methylene chloride     | 4.91  | 84  | 17115m  | 3.294 ug/L    |        |
| 22) cis-1,2-Dichloroethene | 7.16  | 96  | 367213  | 89.073 ug/L   | 98     |
| 35) Trichloroethene        | 9.09  | 95  | 238659  | 61.912 ug/L   | 98     |
| 47) Tetrachloroethene      | 10.87 | 164 | 3807850 | 1252.669 ug/L | 94     |

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

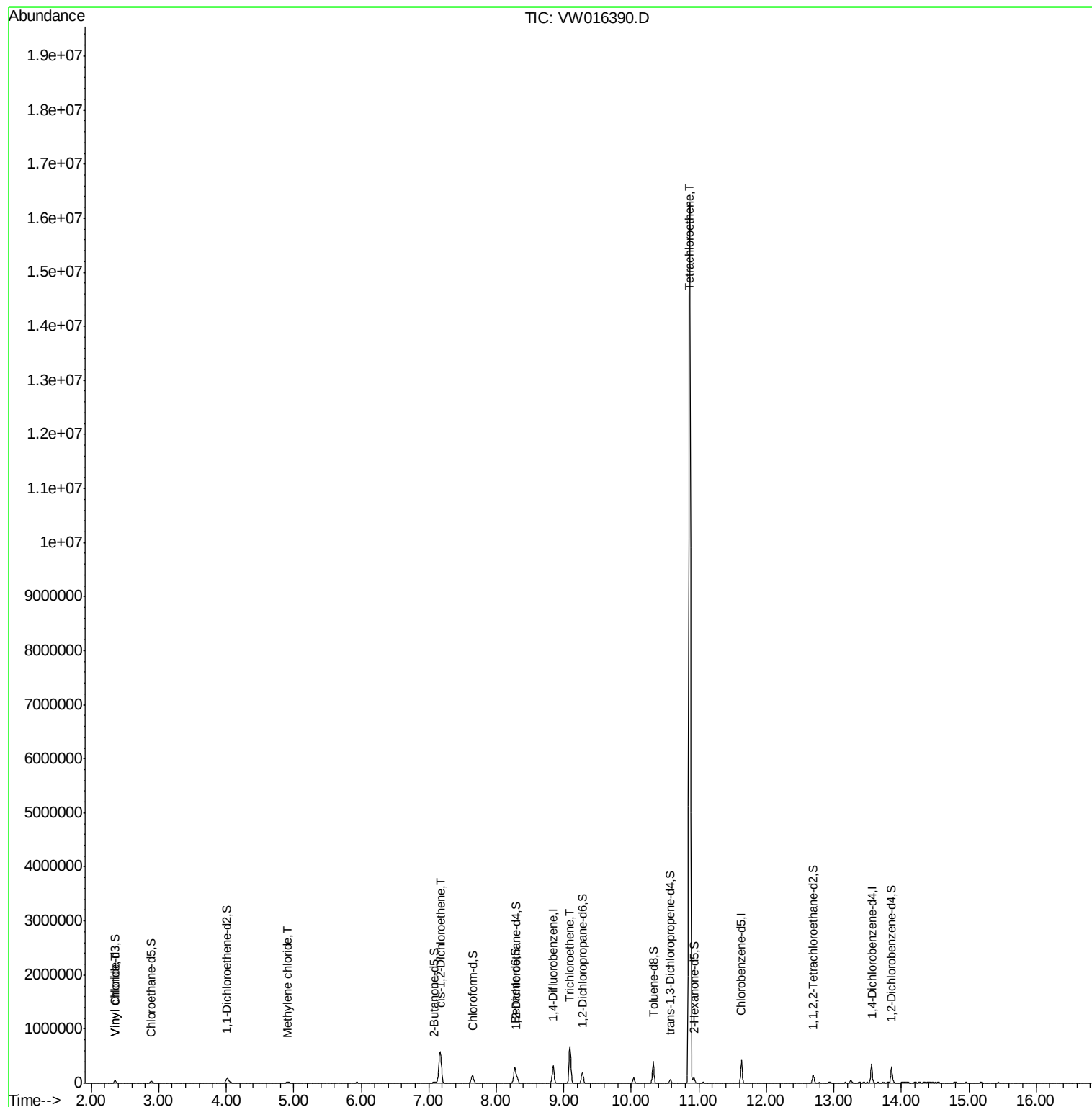
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082720\  
Data File : VW016390.D  
Acq On : 27 Aug 2020 15:02  
Operator : SY/VA  
Sample : L3800-05  
Misc : 6.01G/10ML/MSVOA W/SOIL  
ALS Vial : 14 Sample Multiplier: 1

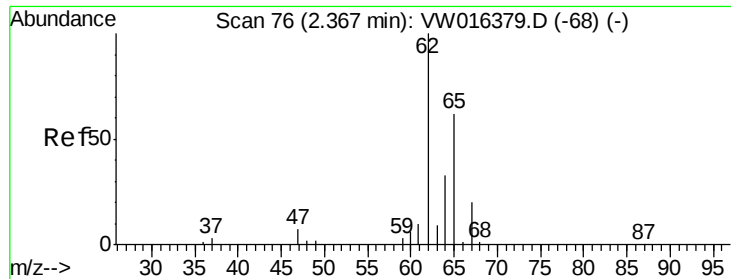
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3H5

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Quant Time: Aug 28 08:59:45 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM082420S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Aug 28 08:08:30 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.374 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW016390.D

Acq: 27 Aug 2020 15:02

Instrument :

MSVOA\_W

ClientSampleId :

BG3H5

Tot Ion: 62 Resp: 11081

Ion Ratio Lower Upper

62 100

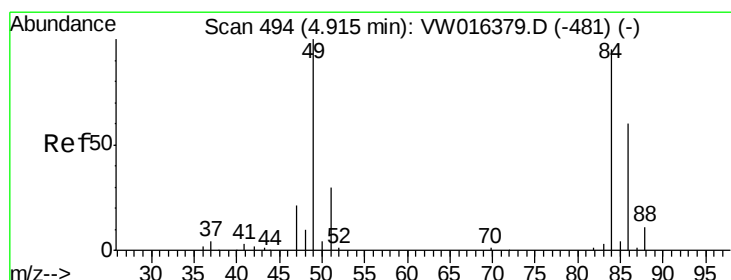
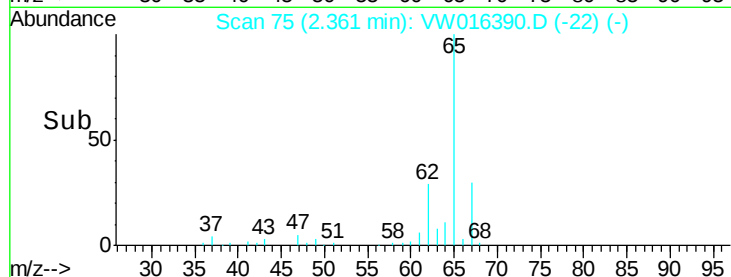
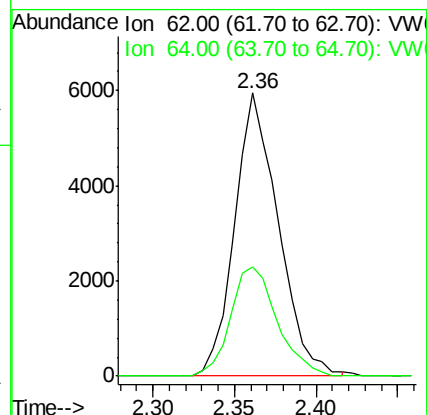
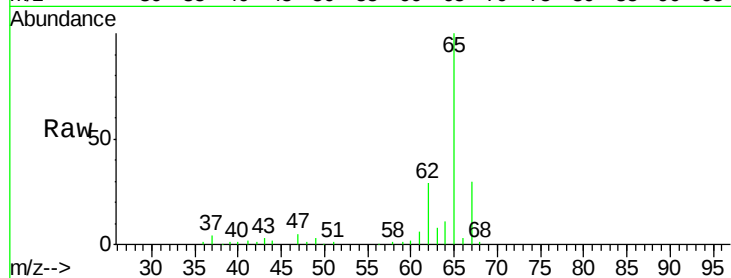
64 38.4 22.0 41.0

Manual Integrations

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#16

Methylene chloride

Concen: 3.294 ug/L m

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW016390.D

Acq: 27 Aug 2020 15:02

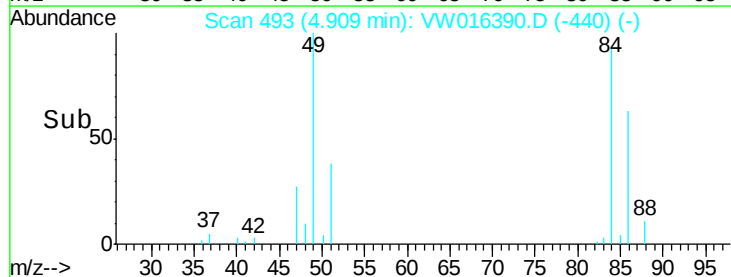
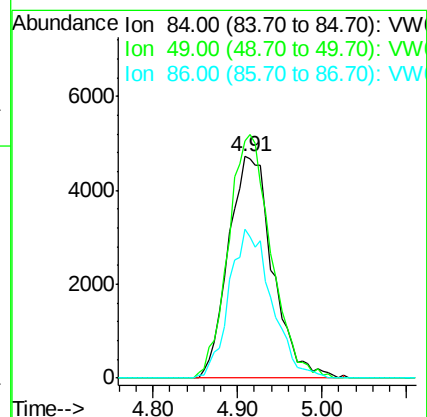
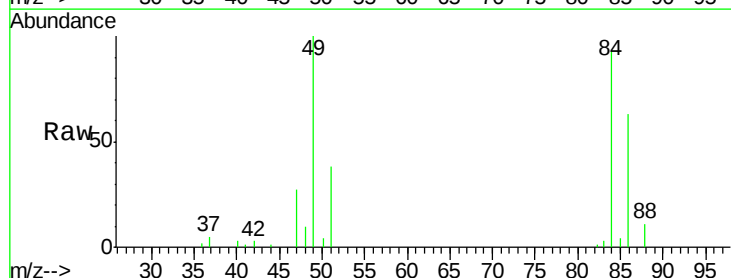
Tgt Ion: 84 Resp: 17115

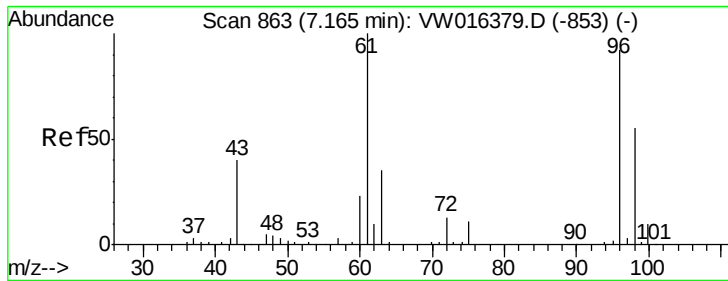
Ion Ratio Lower Upper

84 100

49 107.2 75.3 139.9

86 67.5 43.3 80.3





#22

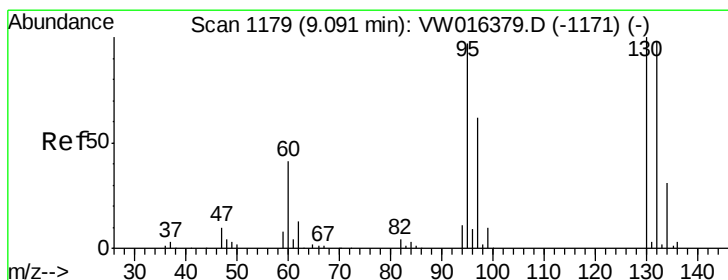
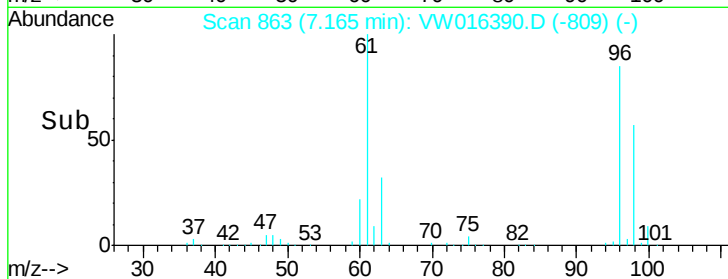
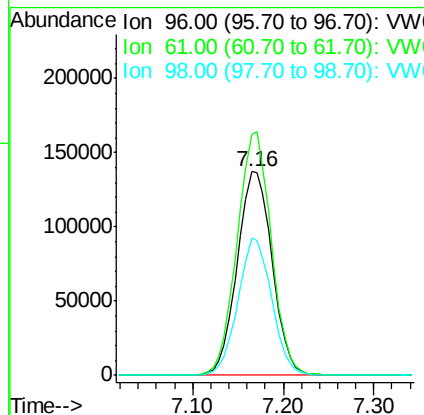
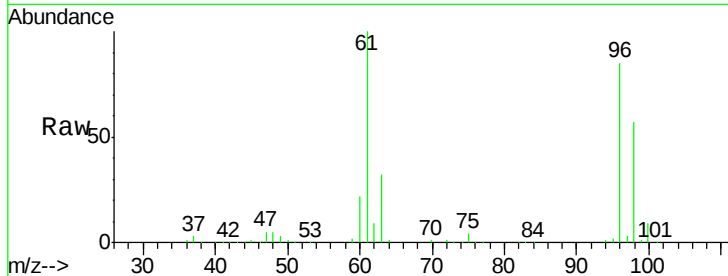
cis-1,2-Dichloroethene  
Concen: 89.073 ug/L  
RT: 7.16 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VW016390.D  
Acq: 27 Aug 2020 15:02

Instrument :  
MSVOA\_W  
ClientSampled :  
BG3H5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 118.3 | 84.9  | 157.7 |
| 98      | 67.6  | 46.8  | 86.8  |

Manual Integrations  
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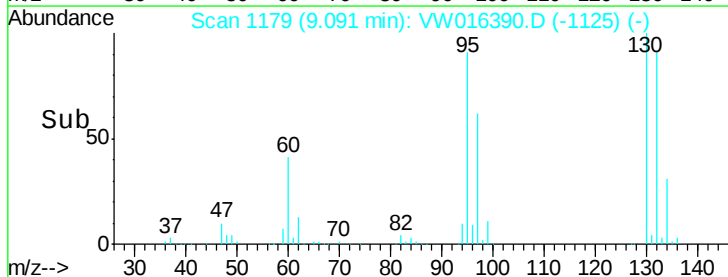
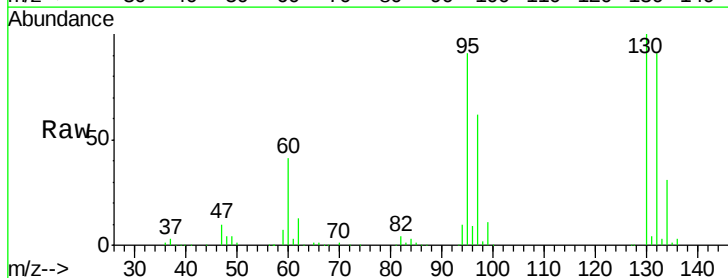
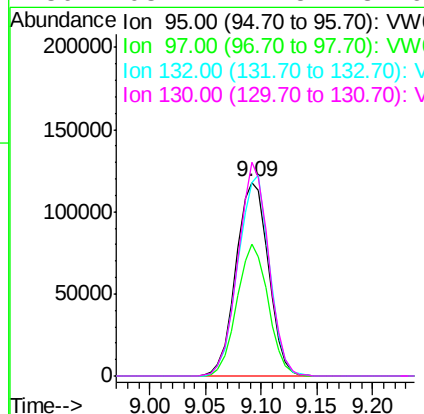
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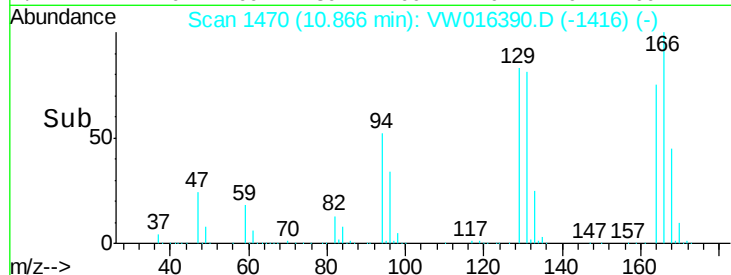
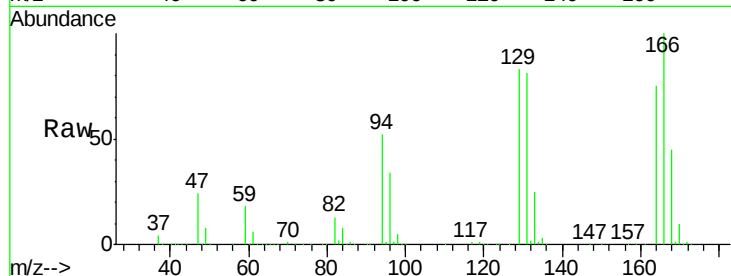
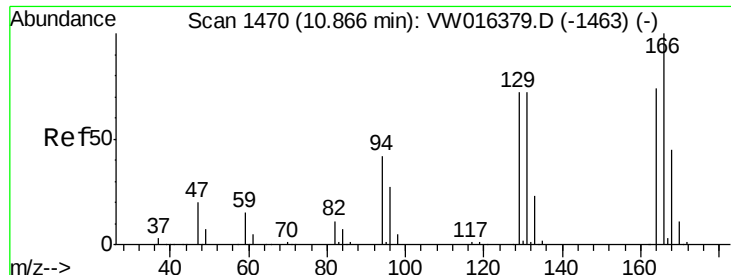


#35

Trichloroethene  
Concen: 61.912 ug/L  
RT: 9.09 min Scan# 1179  
Delta R.T. -0.00 min  
Lab File: VW016390.D  
Acq: 27 Aug 2020 15:02

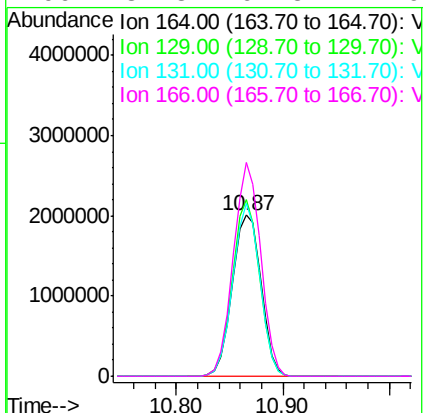
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 65.5  | 44.9  | 83.5  |
| 132     | 99.9  | 68.2  | 126.6 |
| 130     | 103.4 | 71.5  | 132.9 |





#47  
Tetrachloroethene  
Concen: 1252.669 ug/L  
RT: 10.87 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VW016390.D  
Acq: 27 Aug 2020 15:02

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 164   | Resp: | 3807850 |
| Ion      | Ratio | Lower | Upper   |
| 164      | 100   |       |         |
| 129      | 110.1 | 71.5  | 132.7   |
| 131      | 107.5 | 67.4  | 125.2   |
| 166      | 132.8 | 92.5  | 171.9   |



Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3H5

Manual Integrations  
APPROVED

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