

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW110320\  
 Data File : VW017060.D  
 Acq On : 03 Nov 2020 15:33  
 Operator : SY/VA  
 Sample : L4615-04  
 Misc : 5.74G/10ML/MSVOA W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG476

Manual Integrations  
 APPROVED

MMDadoda  
 11/9/2020 10:02:16 AM

Quant Time: Nov 04 05:16:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 04 04:03:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 531452   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 441953   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 167003   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 124460   | 20.29    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 81.16%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 105196   | 22.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 88.52%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 189787   | 15.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 63.64%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 53793    | 46.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 93.12%  |
| 24) Chloroform-d               | 7.65   | 84    | 267039   | 21.78    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 87.12%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 131211   | 22.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 90.96%  |
| 29) Benzene-d6                 | 8.28   | 84    | 541469   | 23.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 95.40%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 150727   | 24.60    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 98.40%  |
| 37) Toluene-d8                 | 10.33  | 98    | 499445   | 23.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 93.48%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 58211    | 22.38    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 89.52%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 43963    | 51.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 102.18% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 108912   | 23.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 93.32%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 137516   | 23.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 93.72%  |

## Target Compounds

|                            |       |     |          |          | Ovalue |     |
|----------------------------|-------|-----|----------|----------|--------|-----|
| 12) 1,1-Dichloroethene     | 4.05  | 96  | 17539m   | 2.521    | ug/L   |     |
| 13) Acetone                | 4.12  | 43  | 5889     | 7.575    | ug/L   | 96  |
| 16) Methylene chloride     | 4.92  | 84  | 15160    | 2.158    | ug/L   | 96  |
| 22) cis-1,2-Dichloroethene | 7.18  | 96  | 23602    | 3.209    | ug/L   | 99  |
| 34) Benzene                | 8.32  | 78  | 182119   | 7.459    | ug/L   | 100 |
| 35) Trichloroethene        | 9.09  | 95  | 887693   | 131.280  | ug/L   | 99  |
| 43) 4-Methyl-2-pentanone   | 10.22 | 43  | 2309     | 0.893    | ug/L   | 93  |
| 47) Tetrachloroethene      | 10.87 | 164 | 10955586 | 1761.351 | ug/L   | 94  |

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

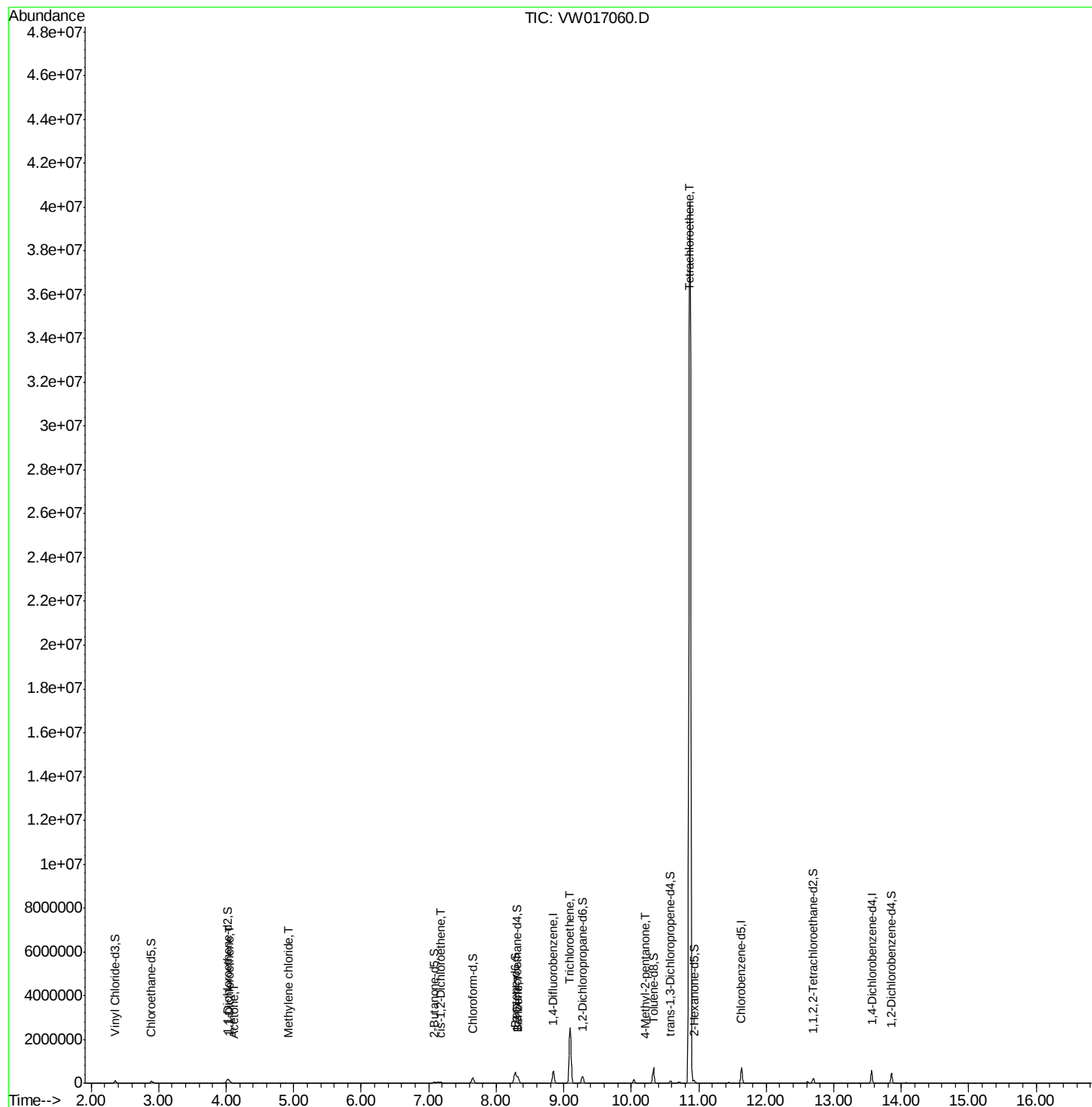
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110320\  
Data File : VW017060.D  
Acq On : 03 Nov 2020 15:33  
Operator : SY/VA  
Sample : L4615-04  
Misc : 5.74G/10ML/MSVOA W/SOIL  
ALS Vial : 11 Sample Multiplier: 1

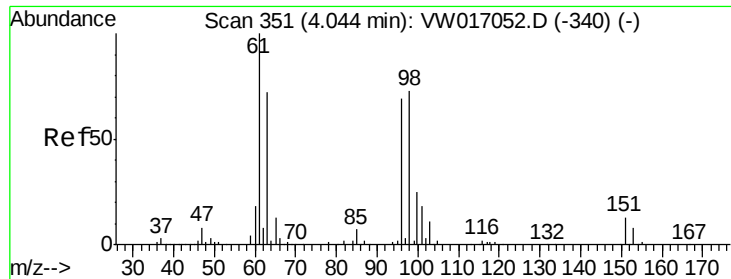
Instrument :  
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ClientSampleId :  
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11/9/2020 10:02:16 AM

Quant Time: Nov 04 05:16:55 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Nov 04 04:03:33 2020  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 2.521 ug/L m

RT: 4.05 min Scan# 352

Delta R.T. 0.01 min

Lab File: VW017060.D

Acq: 03 Nov 2020 15:33

Instrument :

MSVOA\_W

ClientSampled :

BG476

Tot Ion: 96 Resp: 17539

Ion Ratio Lower Upper

96 100

61 173.1 101.4 188.4

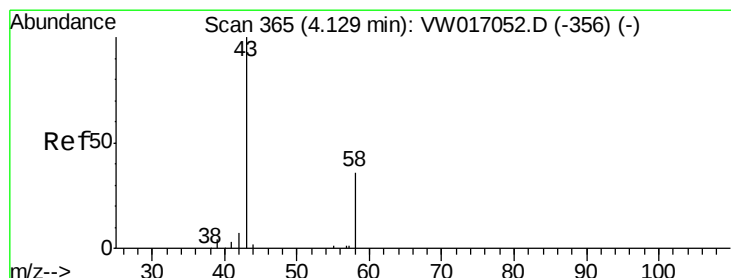
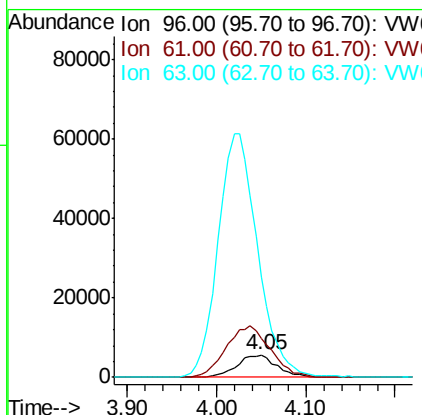
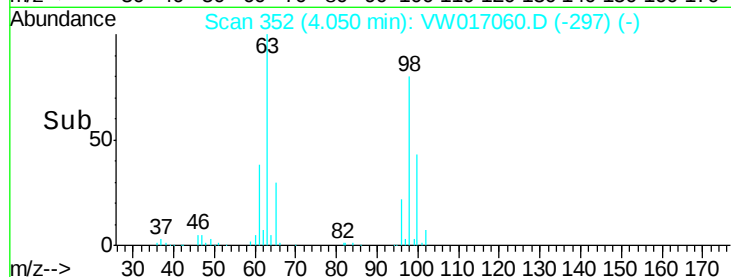
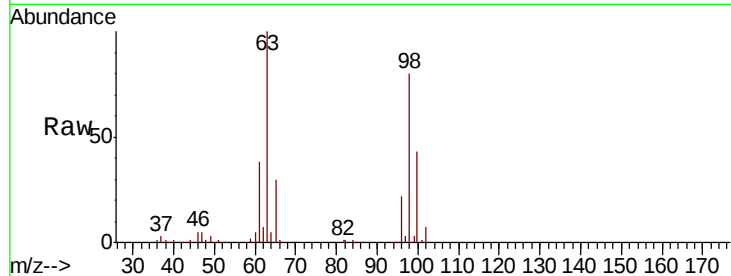
63 454.9 78.5 145.9#

Manual Integrations

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#13

Acetone

Concen: 7.575 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW017060.D

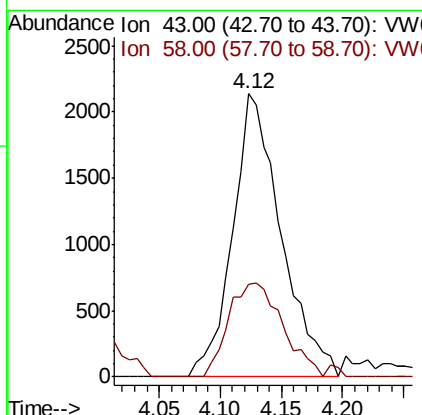
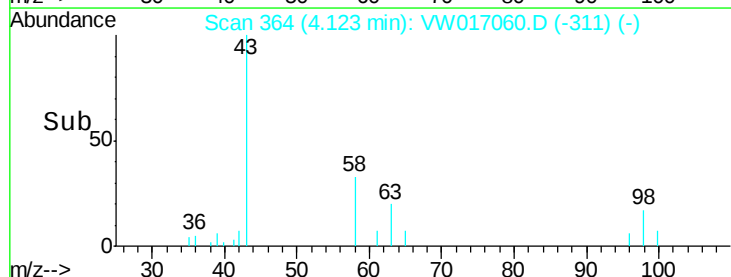
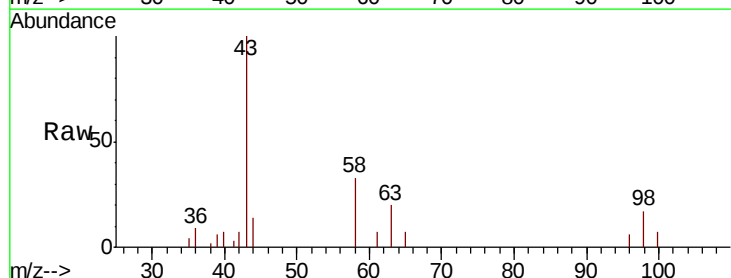
Acq: 03 Nov 2020 15:33

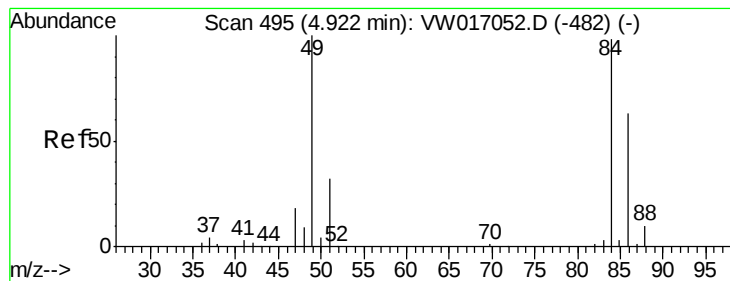
Tgt Ion: 43 Resp: 5889

Ion Ratio Lower Upper

43 100

58 37.0 0.0 69.8





#16

Methvlene chloride

Concen: 2.158 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.00 min

Lab File: VW017060.D

Acq: 03 Nov 2020 15:33

Instrument :

MSVOA\_W

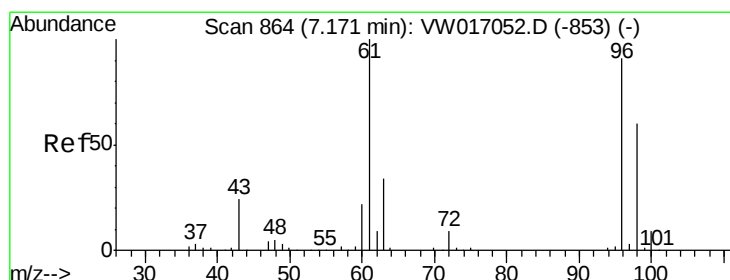
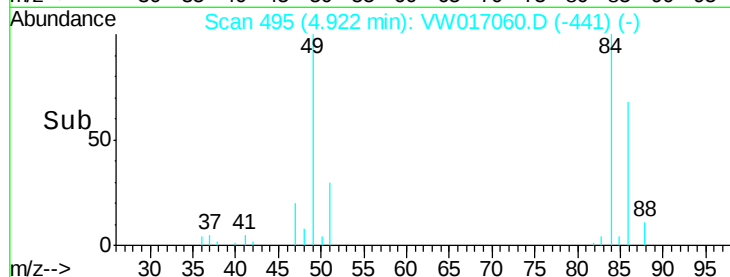
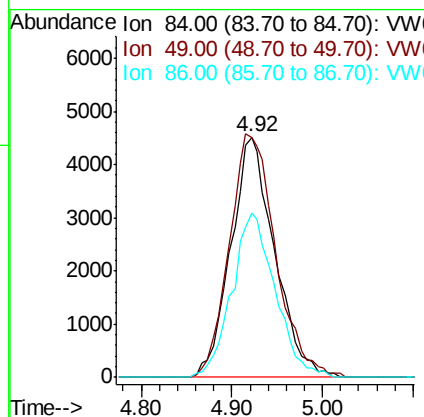
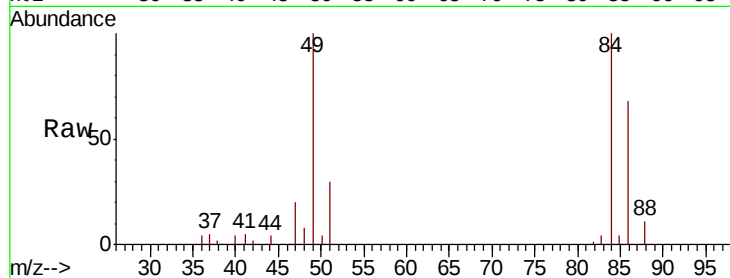
ClientSampled :

BG476

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 15160 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 99.7  | 73.8  | 137.0 |
| 86       | 68.1  | 47.4  | 88.0  |

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#22

cis-1,2-Dichloroethene

Concen: 3.209 ug/L

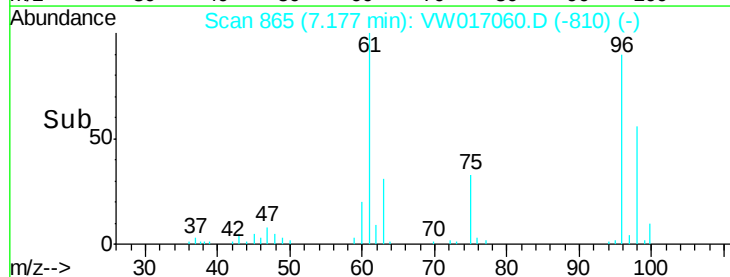
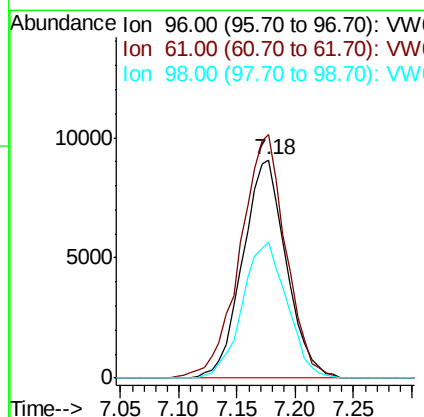
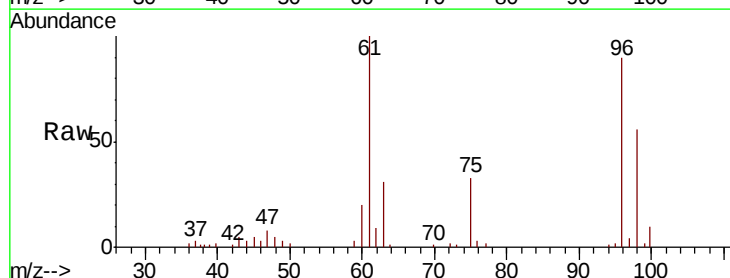
RT: 7.18 min Scan# 865

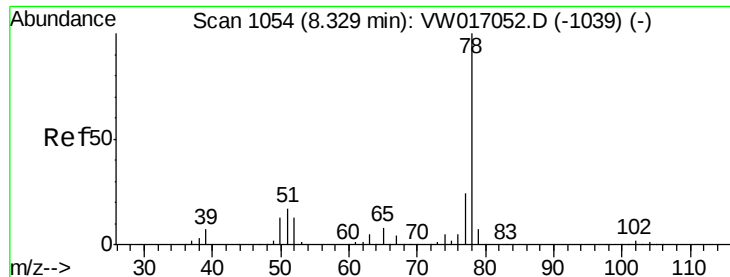
Delta R.T. 0.01 min

Lab File: VW017060.D

Acq: 03 Nov 2020 15:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 23602 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 111.5 | 77.4  | 143.8 |
| 98       | 62.2  | 44.4  | 82.5  |





#34

Benzene

Concen: 7.459 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VW017060.D

Acq: 03 Nov 2020 15:33

Instrument :

MSVOA\_W

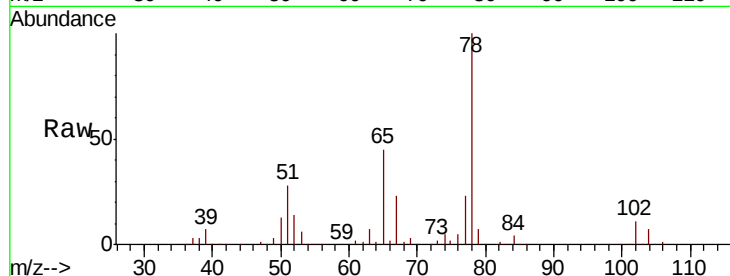
ClientSampleId :

BG476

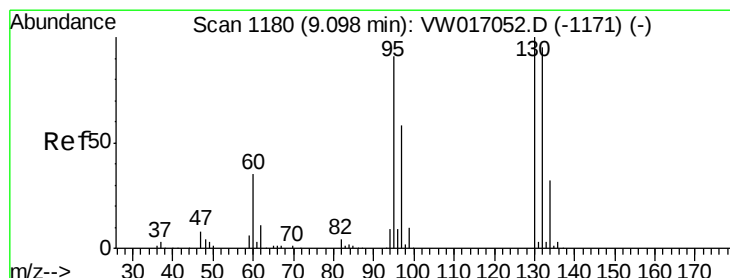
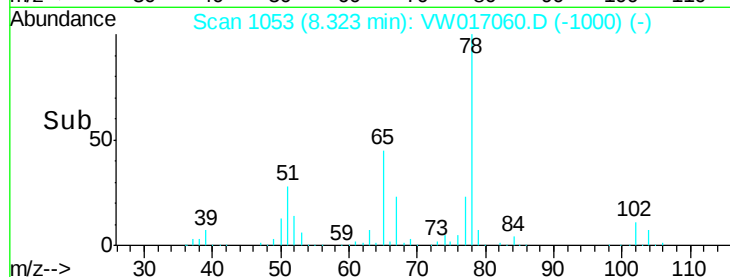
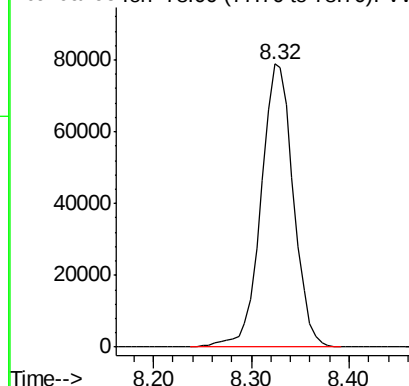
Tgt Ion: 78 Resp: 182119

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Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 131.280 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.01 min

Lab File: VW017060.D

Acq: 03 Nov 2020 15:33

Tgt Ion: 95 Resp: 887693

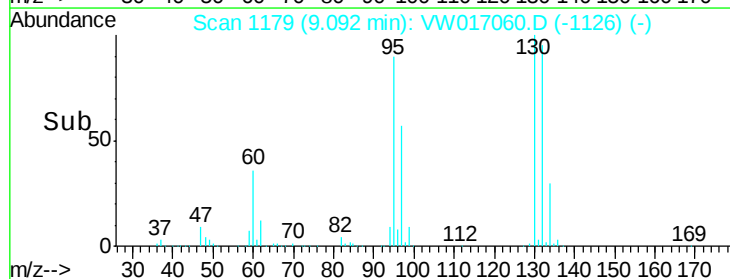
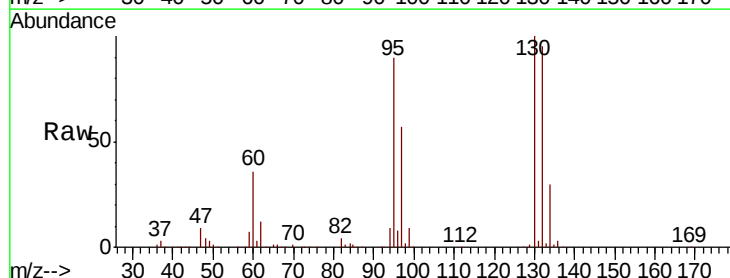
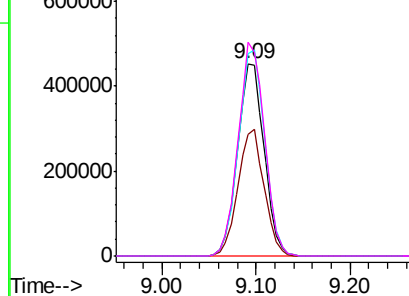
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.0  | 46.0  | 85.4  |
| 132 | 107.1 | 73.9  | 137.3 |
| 130 | 110.5 | 77.6  | 144.2 |

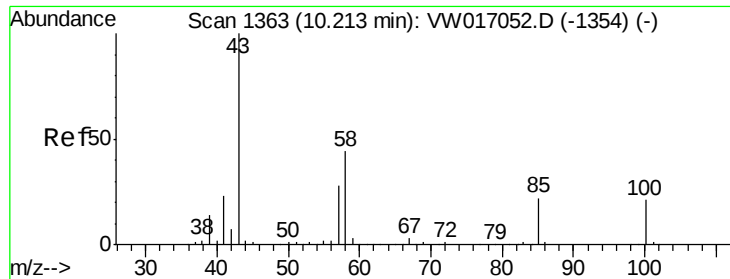
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V





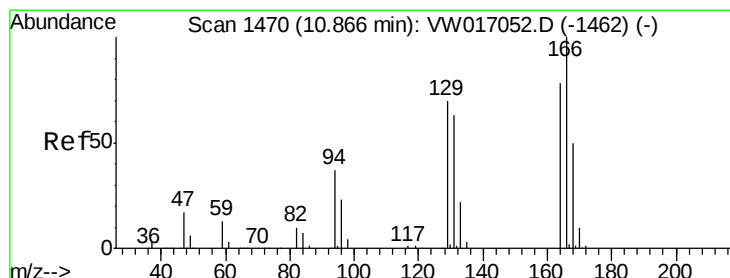
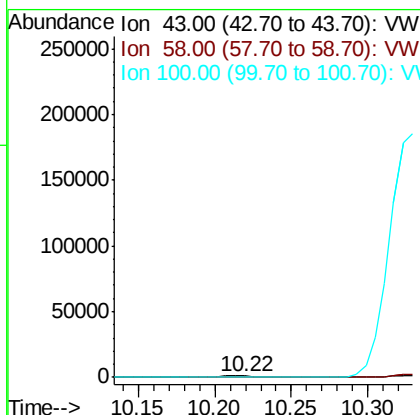
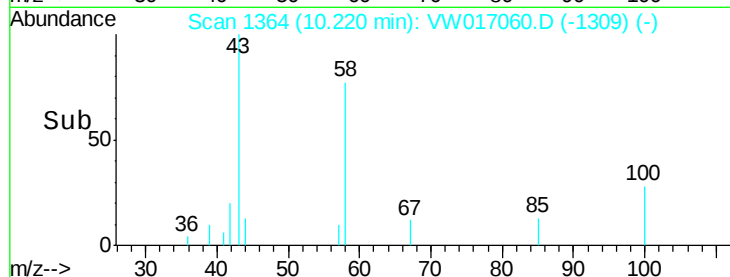
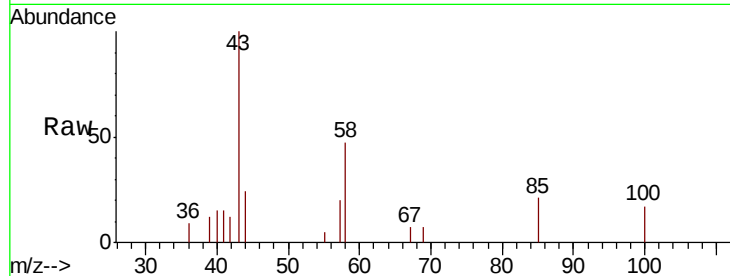
#43  
4-Methyl-2-pentanone  
Concen: 0.893 ug/L  
RT: 10.22 min Scan# 1364  
Delta R.T. 0.01 min  
Lab File: VW017060.D  
Acq: 03 Nov 2020 15:33

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG476

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 37.0  | 34.4  | 51.6  |
| 100     | 20.4  | 16.2  | 24.2  |

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11/9/2020 10:02:16 AM



#47  
Tetrachloroethene  
Concen: 1761.351 ug/L  
RT: 10.87 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VW017060.D  
Acq: 03 Nov 2020 15:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 129     | 91.5  | 64.0  | 119.0 |
| 131     | 91.3  | 61.7  | 114.5 |
| 166     | 120.8 | 94.6  | 175.8 |

