

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW110320\  
 Data File : VW017054.D  
 Acq On : 03 Nov 2020 12:33  
 Operator : SY/VA  
 Sample : L4615-09  
 Misc : 5.56G/10ML/MSVOA W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG481

Manual Integrations  
 APPROVED

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

Quant Time: Nov 04 04:41:17 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  | 552586   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 470273   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 210699   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 140752   | 22.07    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 88.28% |
| 7) Chloroethane-d5             | 2.90   | 69    | 116939   | 23.66    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.64% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 214174   | 17.26    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 69.04% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 42458    | 35.34    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 70.68% |
| 24) Chloroform-d               | 7.65   | 84    | 283948   | 22.28    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 89.12% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 125119   | 20.86    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 83.44% |
| 29) Benzene-d6                 | 8.27   | 84    | 592548   | 24.53    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 98.12% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 159561   | 24.47    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 97.88% |
| 37) Toluene-d8                 | 10.32  | 98    | 554108   | 24.36    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 97.44% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 58934    | 21.30    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 85.20% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 33958    | 37.09    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 74.18% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 95217    | 19.17    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 76.68% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 168828   | 22.80    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 91.20% |

## Target Compounds

|                            |       |     |         |          | Ovalue |    |
|----------------------------|-------|-----|---------|----------|--------|----|
| 13) Acetone                | 4.15  | 43  | 2111m   | 2.611    | ug/L   |    |
| 14) Carbon disulfide       | 4.39  | 76  | 18516   | 0.844    | ug/L   | 98 |
| 16) Methylene chloride     | 4.92  | 84  | 10275   | 1.406    | ug/L   | 98 |
| 22) cis-1,2-Dichloroethene | 7.18  | 96  | 7018    | 0.918    | ug/L   | 85 |
| 34) Benzene                | 8.33  | 78  | 40548m  | 1.561    | ug/L   |    |
| 35) Trichloroethene        | 9.09  | 95  | 405726  | 56.389   | ug/L   | 99 |
| 43) 4-Methyl-2-pentanone   | 10.21 | 43  | 2840    | 1.033    | ug/L # | 90 |
| 47) Tetrachloroethene      | 10.87 | 164 | 7366442 | 1112.997 | ug/L   | 91 |

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

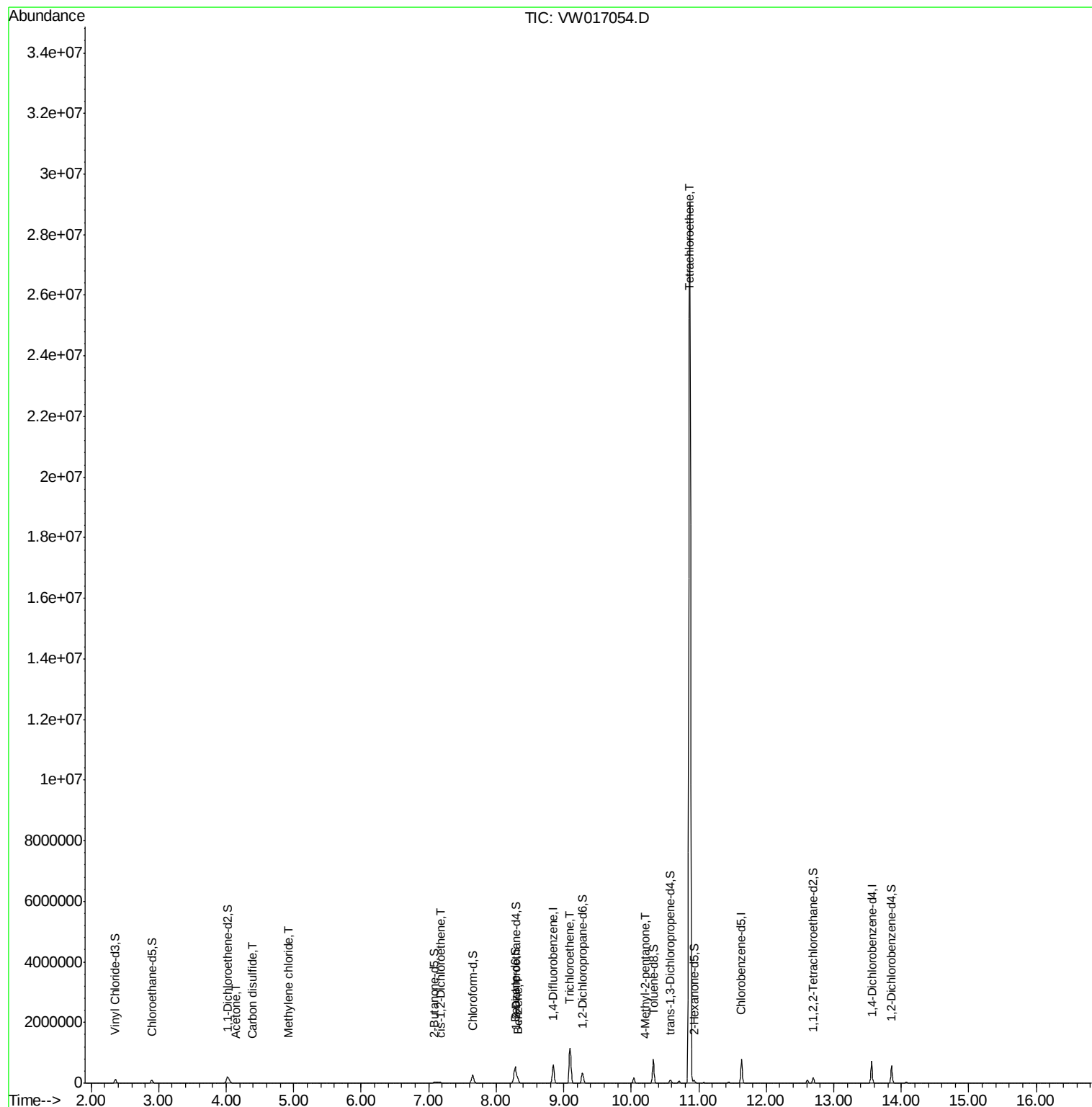
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW110320\  
Data File : VW017054.D  
Acq On : 03 Nov 2020 12:33  
Operator : SY/VA  
Sample : L4615-09  
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ALS Vial : 5 Sample Multiplier: 1

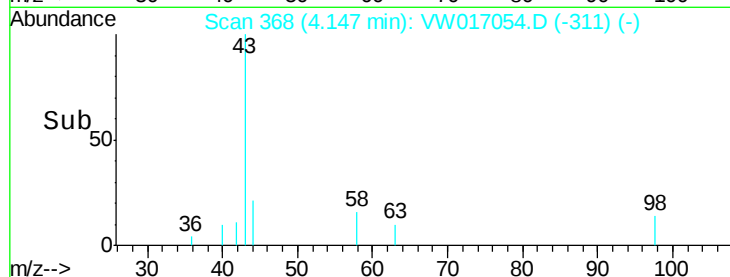
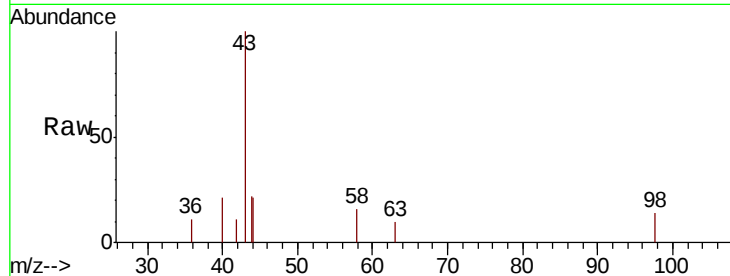
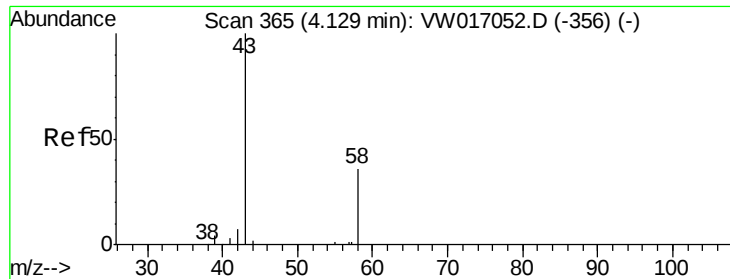
Instrument :  
MSVOA\_W  
ClientSampleId :  
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11/9/2020 10:02:02 AM

Quant Time: Nov 04 04:41:17 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





#13

Acetone

Concen: 2.611 ug/L m

RT: 4.15 min Scan# 368

Delta R.T. 0.02 min

Lab File: VW017054.D

Acq: 03 Nov 2020 12:33

Tot Ion: 43 Resp: 2111

Ion Ratio Lower Upper

43 100

58 20.3 0.0 69.8

Instrument :

MSVOA\_W

ClientSampled :

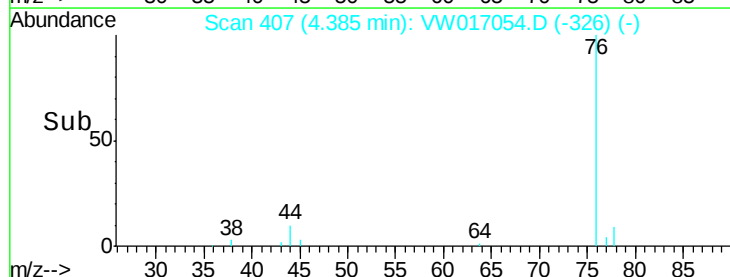
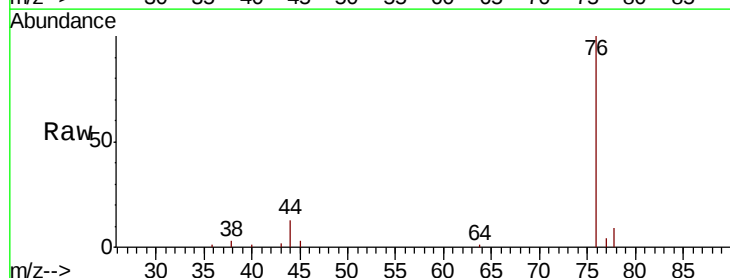
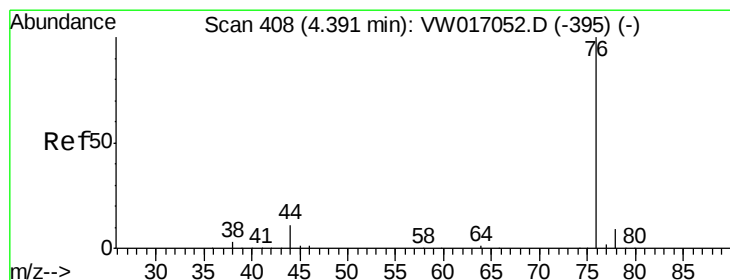
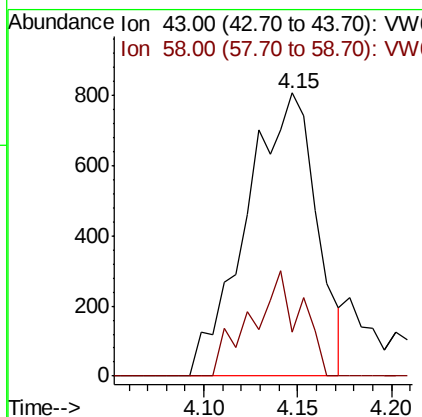
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#14

Carbon disulfide

Concen: 0.844 ug/L

RT: 4.39 min Scan# 407

Delta R.T. -0.01 min

Lab File: VW017054.D

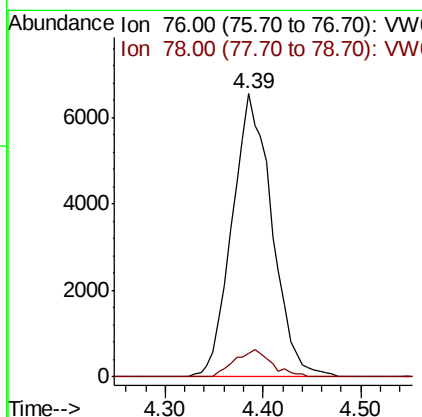
Acq: 03 Nov 2020 12:33

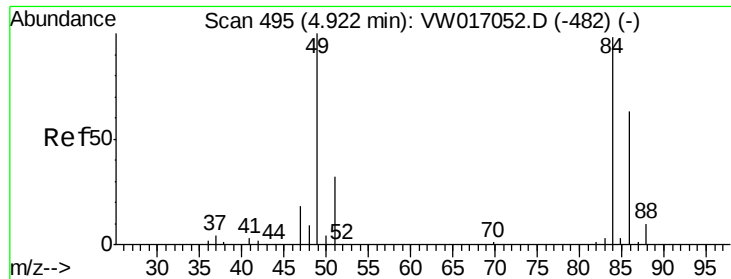
Tgt Ion: 76 Resp: 18516

Ion Ratio Lower Upper

76 100

78 8.5 7.3 10.9





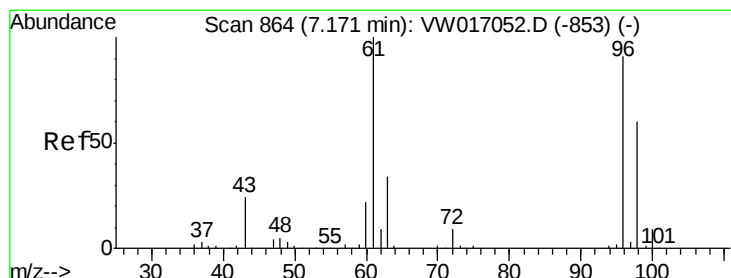
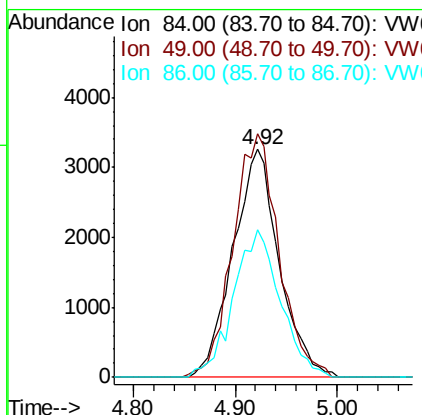
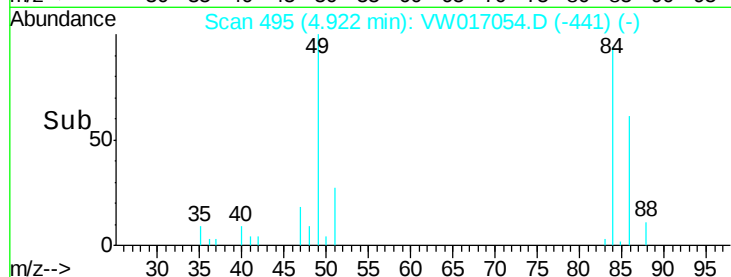
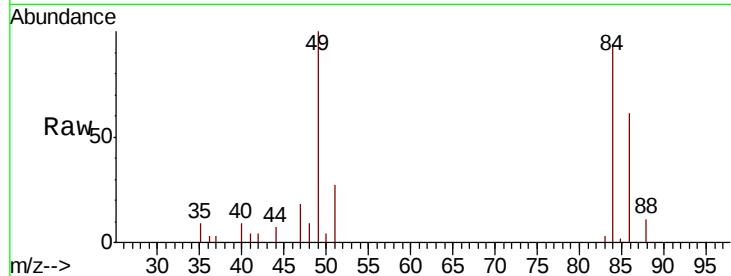
#16  
Methylene chloride  
Concen: 1.406 ug/L  
RT: 4.92 min Scan# 495  
Delta R.T. 0.00 min  
Lab File: VW017054.D  
Acq: 03 Nov 2020 12:33

Instrument :  
MSVOA\_W  
ClientSampled :  
BG481

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 106.9 | 73.8  | 137.0 |
| 86      | 64.7  | 47.4  | 88.0  |

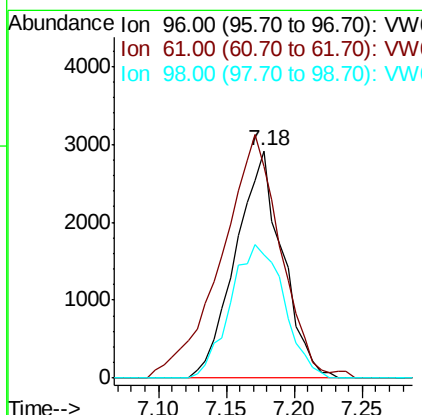
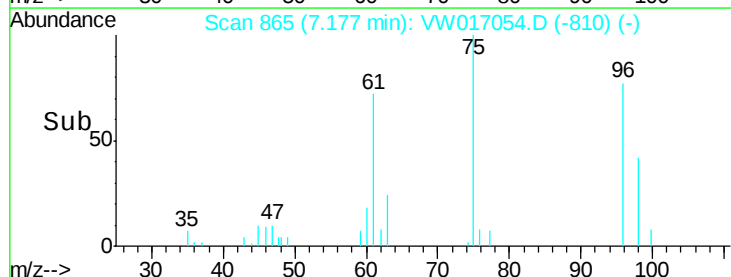
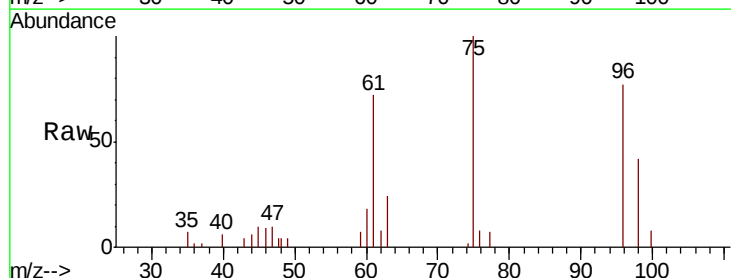
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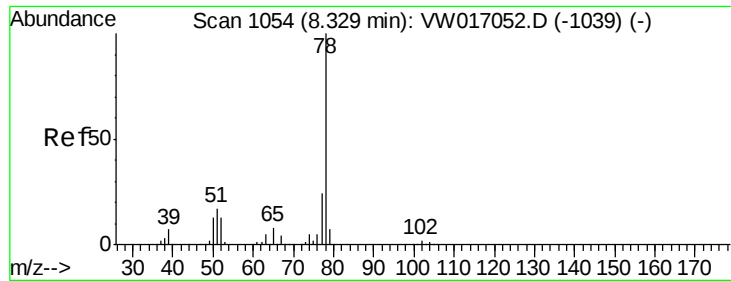
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11/9/2020 10:02:02 AM



#22  
cis-1,2-Dichloroethene  
Concen: 0.918 ug/L  
RT: 7.18 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VW017054.D  
Acq: 03 Nov 2020 12:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 93.1  | 77.4  | 143.8 |
| 98      | 54.1  | 44.4  | 82.5  |





#34

Benzene

Concen: 1.561 ug/L m

RT: 8.33 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VW017054.D

Acq: 03 Nov 2020 12:33

Instrument :

MSVOA\_W

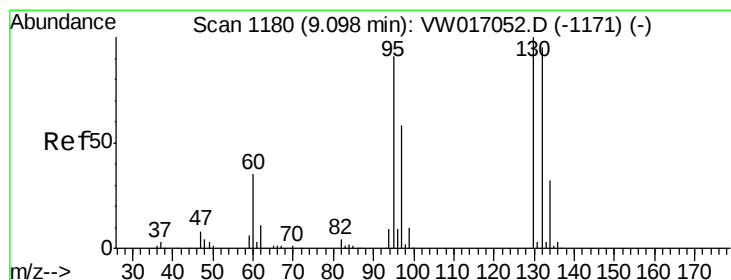
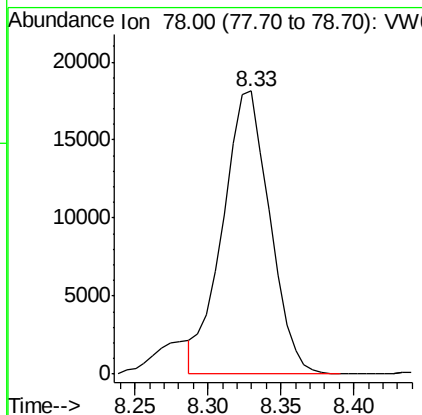
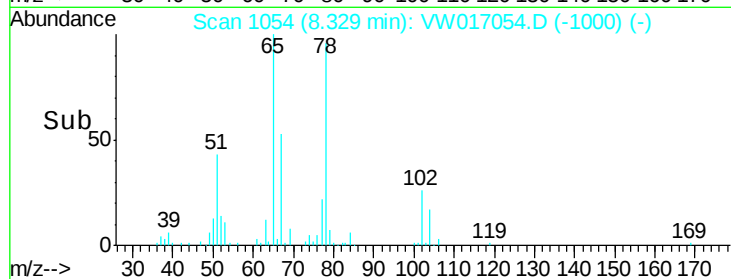
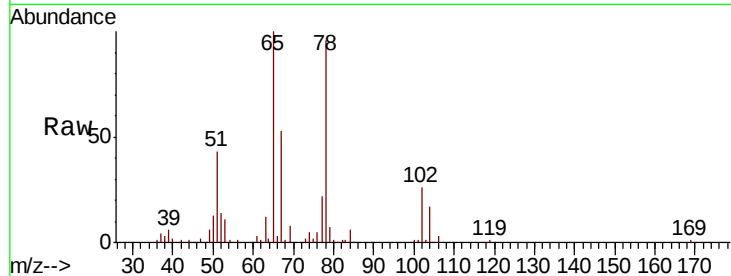
ClientSampleId :

BG481

Tgt Ion: 78 Resp: 40548

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#35

Trichloroethene

Concen: 56.389 ug/L

RT: 9.09 min Scan# 1179

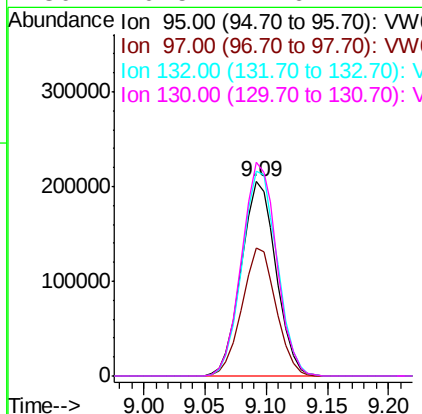
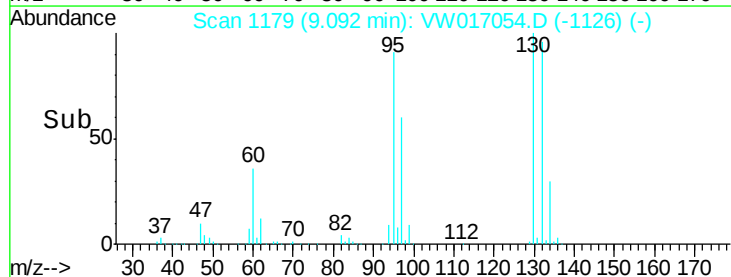
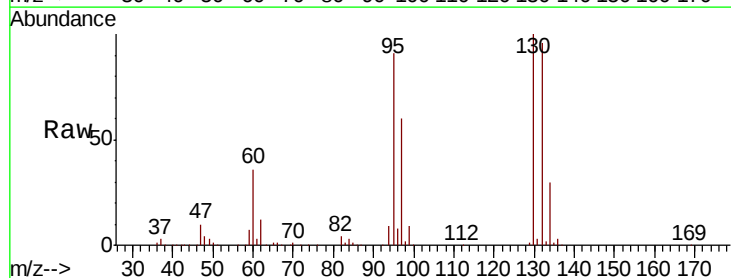
Delta R.T. -0.01 min

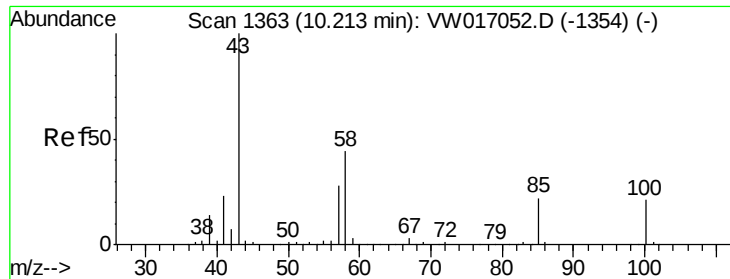
Lab File: VW017054.D

Acq: 03 Nov 2020 12:33

Tgt Ion: 95 Resp: 405726

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.7  | 46.0  | 85.4  |
| 132 | 106.6 | 73.9  | 137.3 |
| 130 | 110.5 | 77.6  | 144.2 |





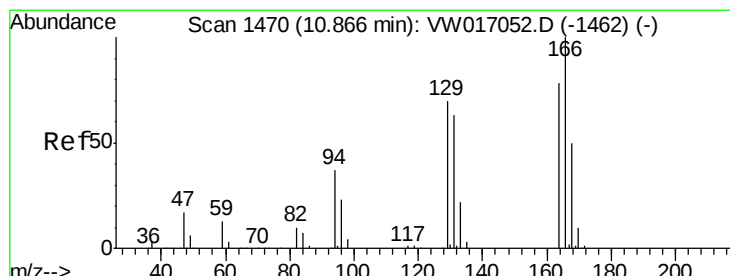
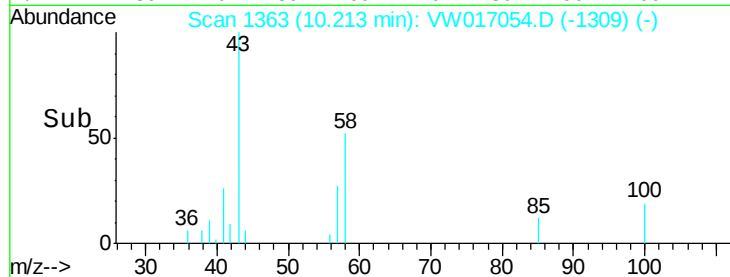
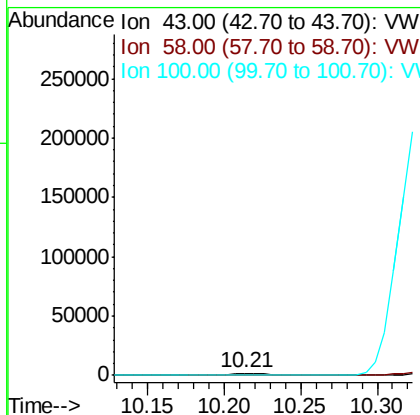
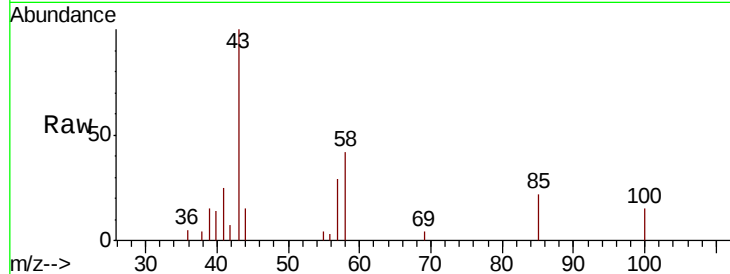
#43  
4-Methyl-2-pentanone  
Concen: 1.033 ug/L  
RT: 10.21 min Scan# 1363  
Delta R.T. 0.00 min  
Lab File: VW017054.D  
Acq: 03 Nov 2020 12:33

Instrument :  
MSVOA\_W  
ClientSampled :  
BG481

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 40.4  | 34.4  | 51.6  |
| 100     | 9.3   | 16.2  | 24.2  |

Manual Integrations  
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#47  
Tetrachloroethene  
Concen: 1112.997 ug/L  
RT: 10.87 min Scan# 1471  
Delta R.T. 0.01 min  
Lab File: VW017054.D  
Acq: 03 Nov 2020 12:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 129     | 87.5  | 64.0  | 119.0 |
| 131     | 84.1  | 61.7  | 114.5 |
| 166     | 116.1 | 94.6  | 175.8 |

