

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW071019\  
 Data File : VW011188.D  
 Acq On : 10 Jul 2019 11:43  
 Operator : SY/VA  
 Sample : K3724-03MS  
 Misc : 5.76G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DB8T1MS

Manual Integrations  
 APPROVED

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 7/15/2019 2:54:43 PM

Quant Time: Jul 11 06:50:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jul 11 05:38:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 280228   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 248725   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 112632   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.34   | 65    | 72813    | 17.02    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 68.08% |
| 7) Chloroethane-d5             | 2.89   | 69    | 56241    | 18.73    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 74.92% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 187950   | 20.74    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 82.96% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 73011    | 43.32    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 86.64% |
| 24) Chloroform-d               | 7.65   | 84    | 164919   | 21.47    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 85.88% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 105273   | 22.26    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 89.04% |
| 29) Benzene-d6                 | 8.27   | 84    | 340846   | 22.24    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 88.96% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 114729   | 22.99    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 91.96% |
| 37) Toluene-d8                 | 10.32  | 98    | 298688   | 21.87    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 87.48% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 44067    | 20.77    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 83.08% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 47267    | 41.31    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 82.62% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 91808    | 22.24    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 88.96% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 100470   | 23.24    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 92.96% |

| Target Compounds       | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|------------------------|-------|------|----------|--------|-------|--------|
| 12) 1,1-Dichloroethene | 4.04  | 96   | 91111    | 24.741 | ug/L  | # 76   |
| 13) Acetone            | 4.13  | 43   | 2553m    | 1.551  | ug/L  |        |
| 34) Benzene            | 8.32  | 78   | 419544   | 26.989 | ug/L  | 100    |
| 35) Trichloroethene    | 9.09  | 95   | 107664   | 27.446 | ug/L  | 99     |
| 44) Toluene            | 10.38 | 91   | 434664   | 27.015 | ug/L  | 100    |
| 47) Tetrachloroethene  | 10.86 | 164  | 133479   | 45.023 | ug/L  | 97     |
| 52) Chlorobenzene      | 11.66 | 112  | 261970   | 26.650 | ug/L  | 98     |

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

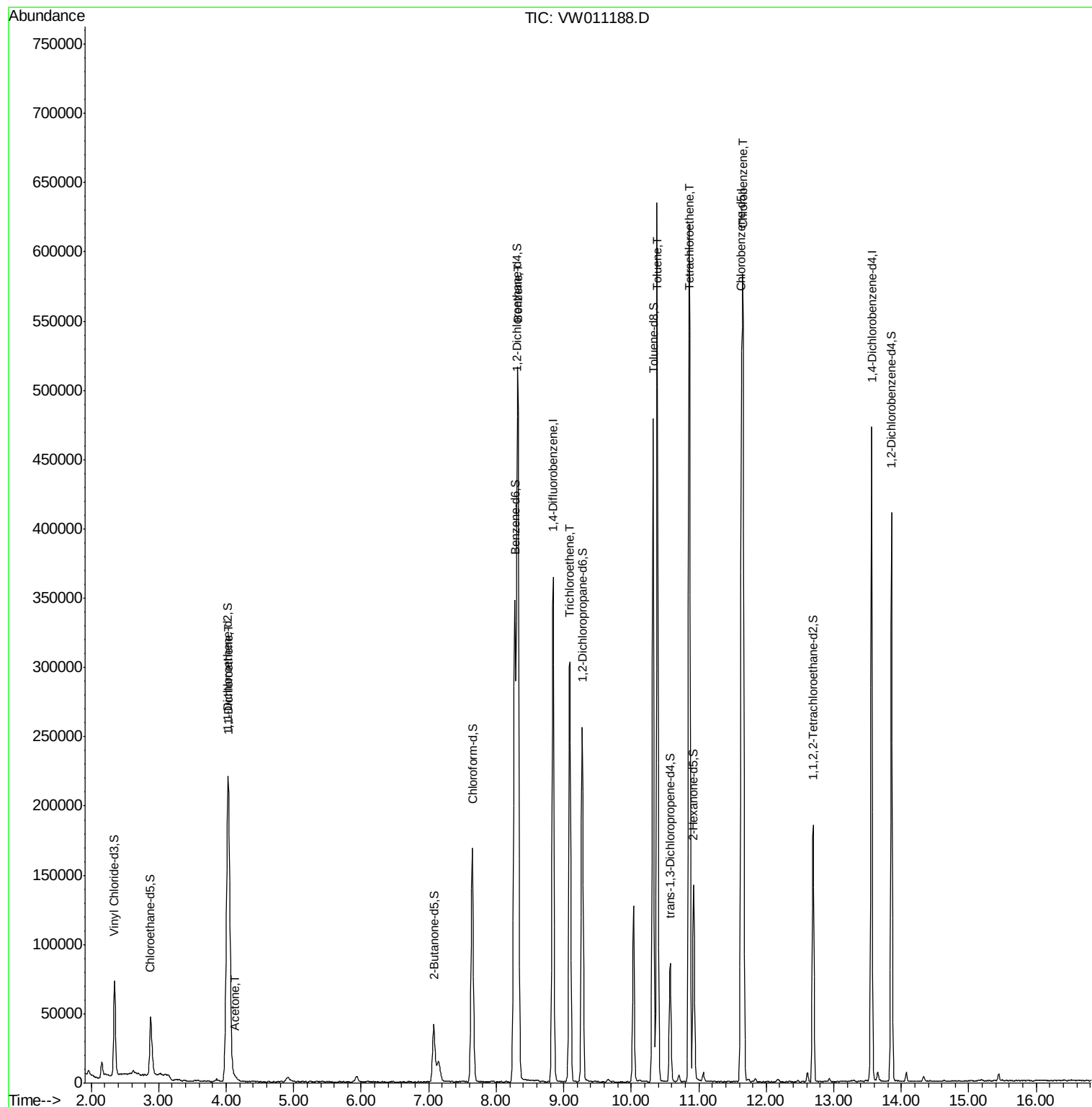
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW071019\  
Data File : VW011188.D  
Acq On : 10 Jul 2019 11:43  
Operator : SY/VA  
Sample : K3724-03MS  
Misc : 5.76G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

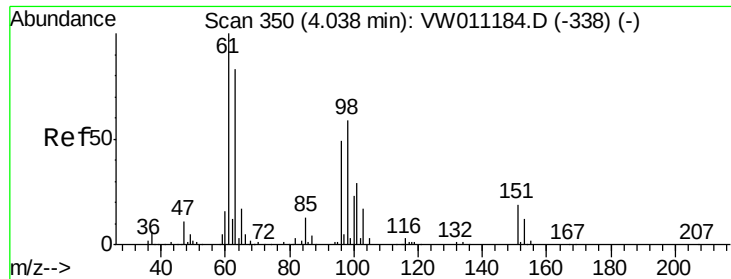
Instrument :  
MSVOA\_W  
ClientSampleId :  
DB8T1MS

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Quant Time: Jul 11 06:50:00 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070219S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Jul 11 05:38:29 2019  
Response via : Initial Calibration





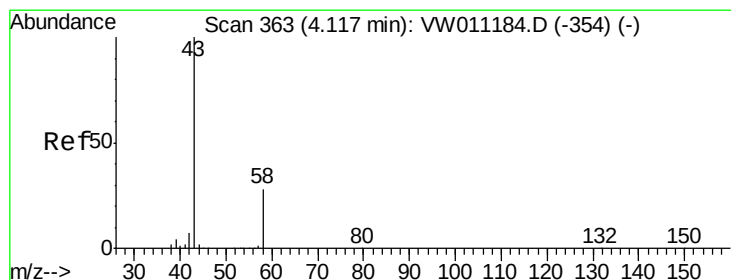
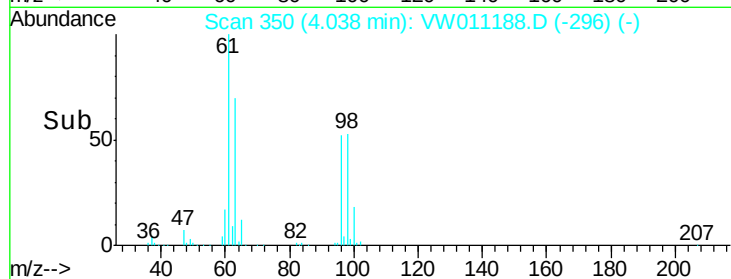
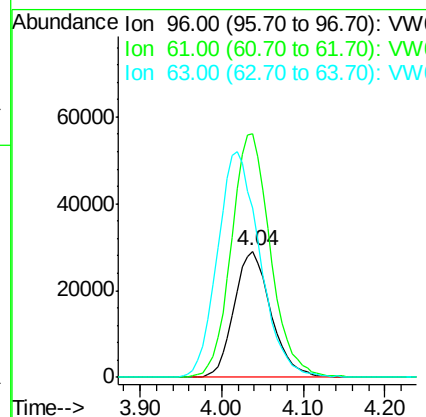
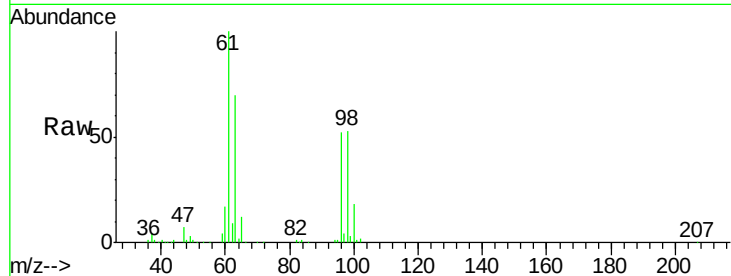
#12  
 1,1-Dichloroethene  
 Concen: 24.741 ug/L  
 RT: 4.04 min Scan# 350  
 Delta R.T. 0.00 min  
 Lab File: VW011188.D  
 Acq: 10 Jul 2019 11:43

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DB8T1MS

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 96      | 100   |       |        |
| 61      | 193.0 | 142.2 | 264.0  |
| 63      | 134.5 | 138.9 | 257.9# |

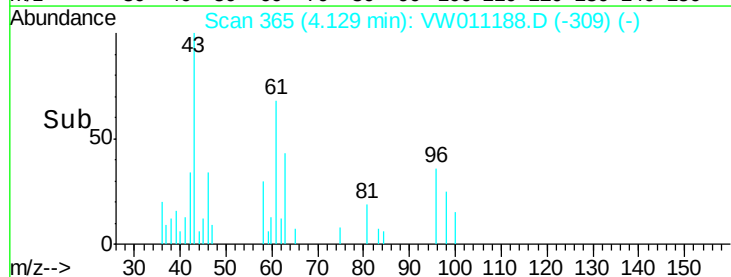
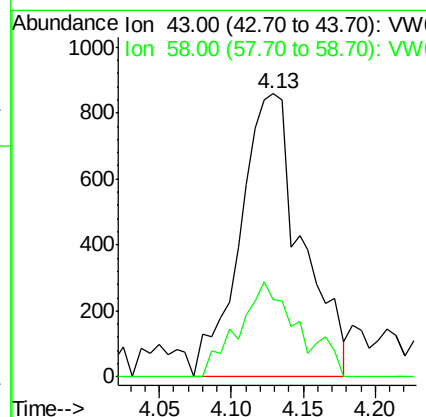
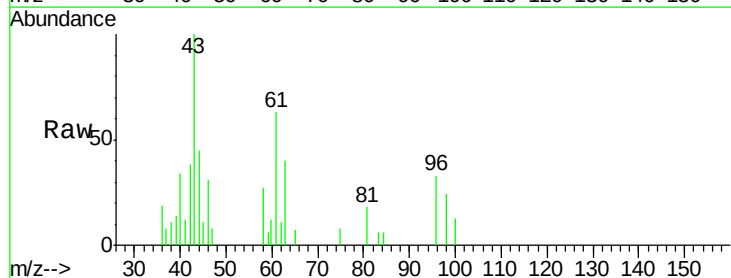
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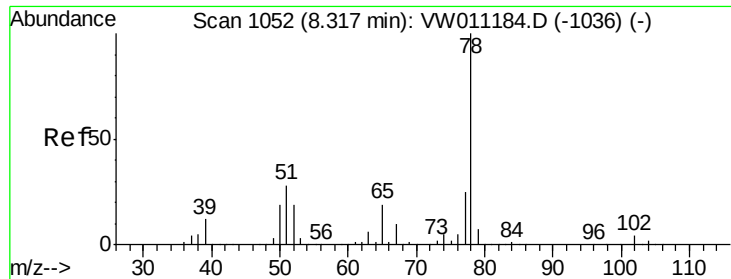
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#13  
 Acetone  
 Concen: 1.551 ug/L m  
 RT: 4.13 min Scan# 365  
 Delta R.T. 0.01 min  
 Lab File: VW011188.D  
 Acq: 10 Jul 2019 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 28.2  | 0.0   | 55.0  |





#34

Benzene

Concen: 26.989 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VW011188.D

Acq: 10 Jul 2019 11:43

Instrument :

MSVOA\_W

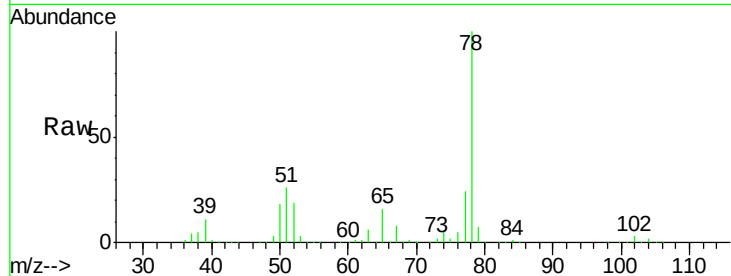
ClientSampleId :

DB8T1MS

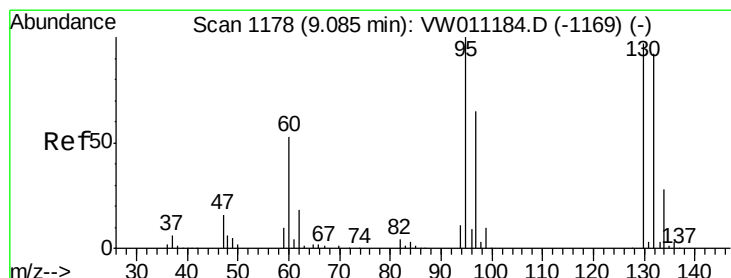
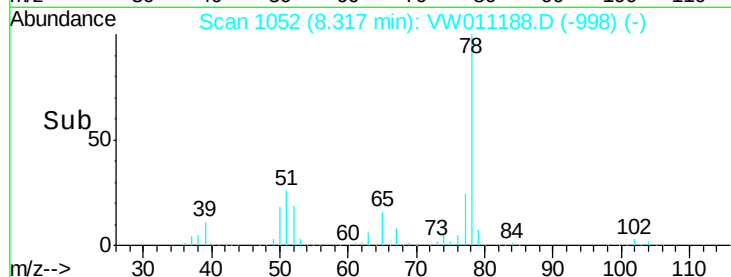
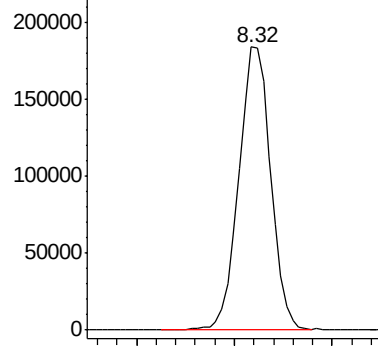
Tgt Ion: 78 Resp: 419544

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Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 27.446 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW011188.D

Acq: 10 Jul 2019 11:43

Tgt Ion: 95 Resp: 107664

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 63.2  | 45.4  | 84.2  |
| 132 | 91.5  | 65.0  | 120.8 |
| 130 | 95.8  | 67.8  | 126.0 |

95 100

97 63.2 45.4 84.2

132 91.5 65.0 120.8

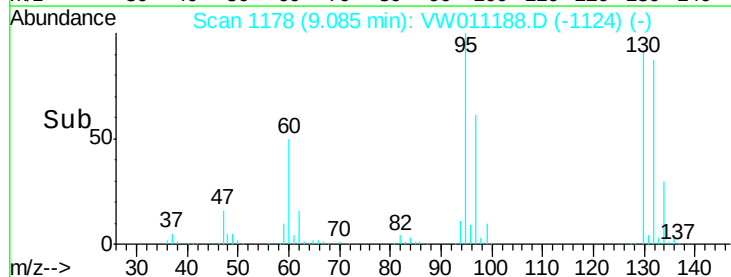
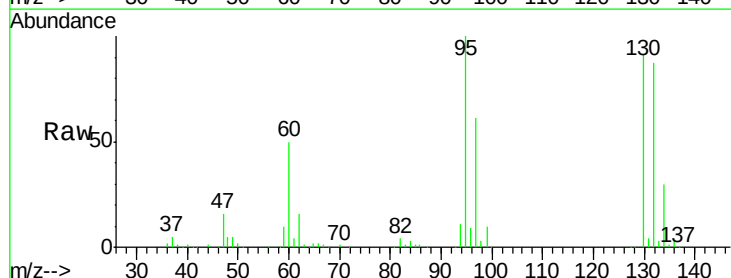
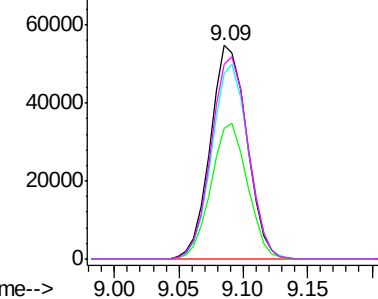
130 95.8 67.8 126.0

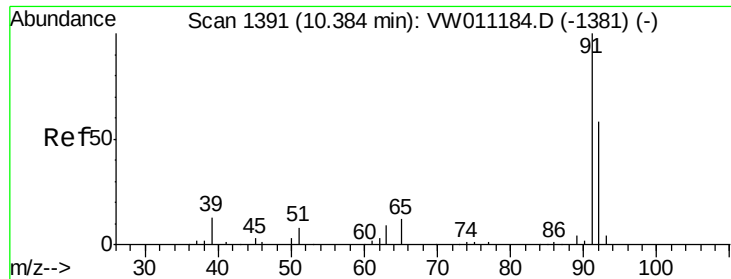
Abundance Ion 95.00 (94.70 to 95.70): VW

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





#44

Toluene

Concen: 27.015 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW011188.D

Acq: 10 Jul 2019 11:43

Instrument :

MSVOA\_W

ClientSampleId :

DB8T1MS

Tgt Ion: 91 Resp: 434664

Ion Ratio Lower Upper

91 100

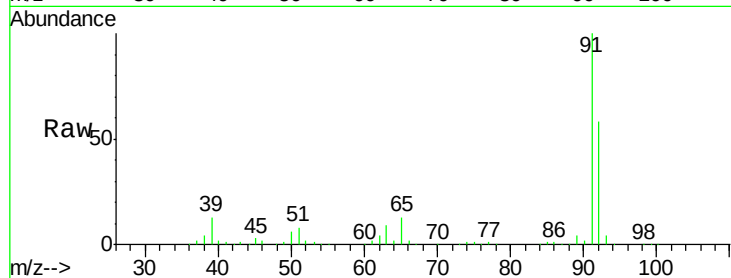
92 58.2 40.8 75.8

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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

10.38

250000

200000

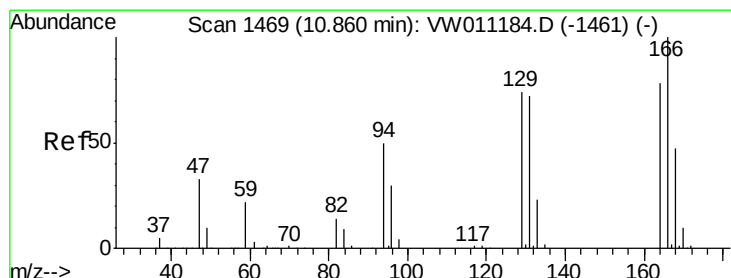
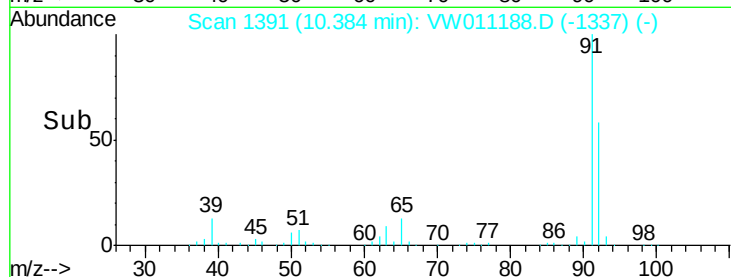
150000

100000

50000

0

Time-->



#47

Tetrachloroethene

Concen: 45.023 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW011188.D

Acq: 10 Jul 2019 11:43

Tgt Ion: 164 Resp: 133479

Ion Ratio Lower Upper

164 100

129 93.5 68.5 127.1

131 88.3 64.8 120.4

166 126.9 87.9 163.3

Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

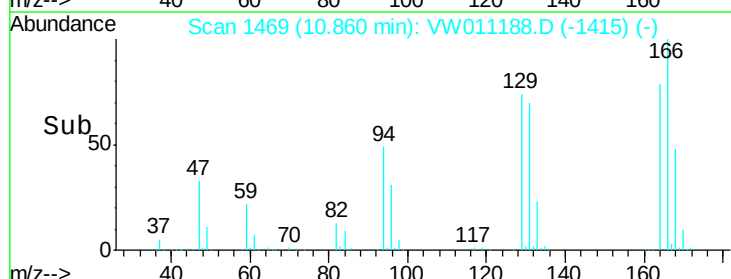
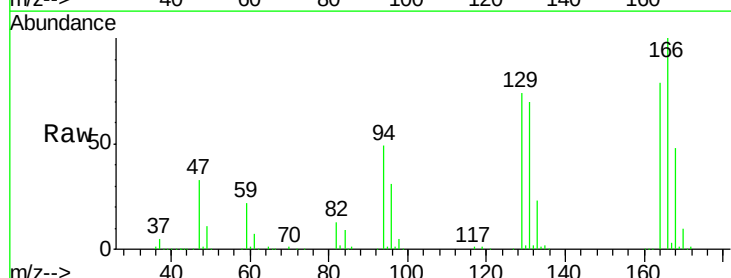
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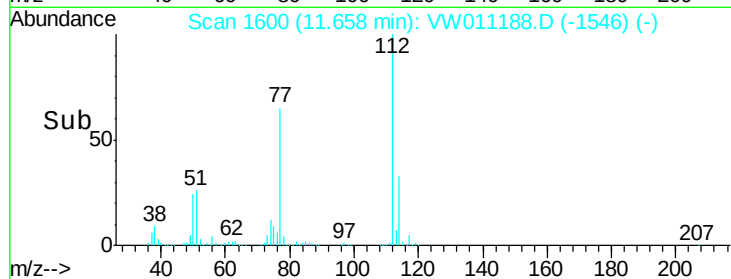
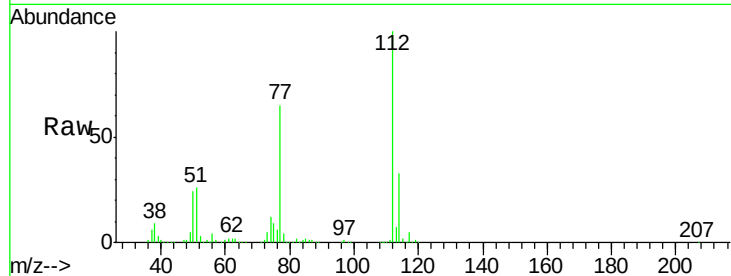
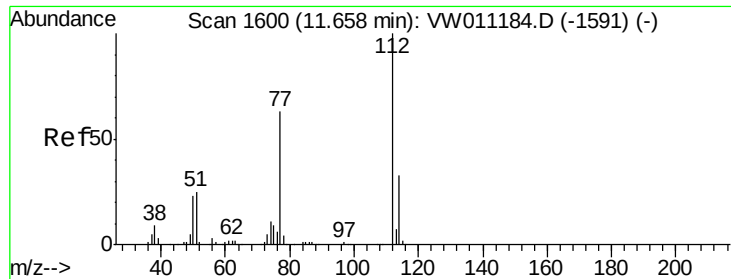
100000

50000

0

Time-->





#52

Chlorobenzene

Concen: 26.650 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW011188.D

Acq: 10 Jul 2019 11:43

Instrument :

MSVOA\_W

ClientSampleId :

DB8T1MS

|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 112   | Resp: | 261970 |
| Ion | Ratio | Lower | Upper |        |
| 112 | 100   |       |       |        |
| 77  | 65.2  | 51.2  | 76.8  |        |
| 114 | 32.7  | 22.0  | 40.8  |        |

Manual Integrations  
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