

Data File : VW011922.D  
Acq On : 15 Aug 2019 11:24  
Operator : SY/VA  
Sample : K4357-03MSD  
Misc : 3.42G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GANJ6MSD

Quant Time: Aug 16 06:56:42 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM073019S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Aug 16 06:53:44 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 287391   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 217454   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 64076    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 68959    | 17.04    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 68.16%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 58744    | 20.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 80.60%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 175153   | 18.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 75.52%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 95551    | 52.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 104.88% |
| 24) Chloroform-d               | 7.77   | 84    | 113      | 0.01     | ug/L | 0.12    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 0.04%#  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 110138   | 23.58    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 94.32%  |
| 29) Benzene-d6                 | 8.27   | 84    | 316400   | 23.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 92.56%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 112797   | 25.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 102.20% |
| 37) Toluene-d8                 | 10.32  | 98    | 243581   | 20.07    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 80.28%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 44076    | 22.78    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 91.12%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 62319    | 60.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 120.88% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 88423    | 24.12    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 96.48%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 50233    | 20.34    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 81.36%  |

#### Target Compounds

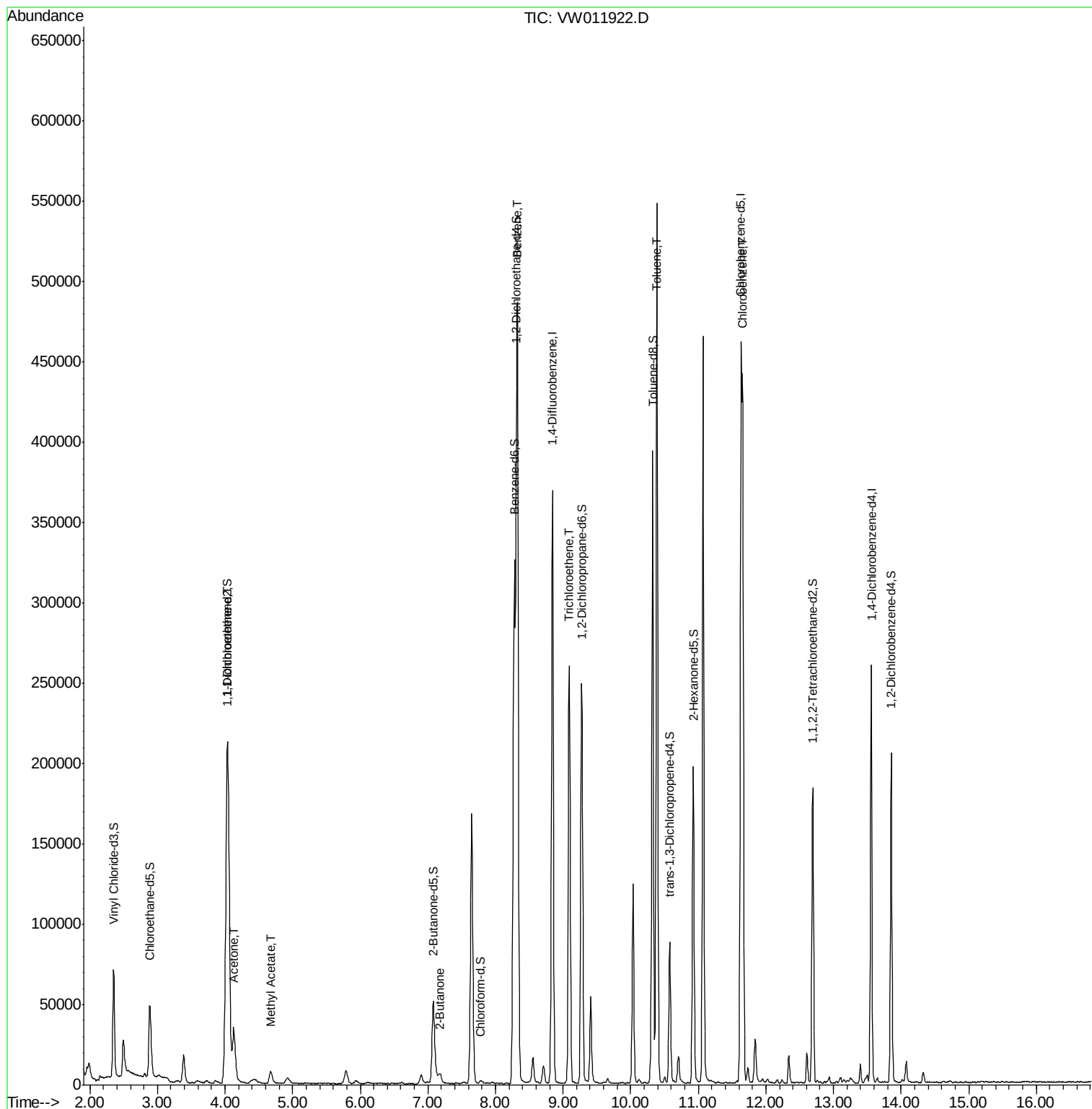
|                        |       |     |        |        |        | Qvalue |
|------------------------|-------|-----|--------|--------|--------|--------|
| 12) 1,1-Dichloroethene | 4.04  | 96  | 87379  | 21.169 | ug/L   | 91     |
| 13) Acetone            | 4.13  | 43  | 58203  | 29.824 | ug/L   | 97     |
| 15) Methyl Acetate     | 4.67  | 43  | 16135  | 5.057  | ug/L # | 88     |
| 21) 2-Butanone         | 7.18  | 43  | 9878   | 4.037  | ug/L   | 98     |
| 34) Benzene            | 8.32  | 78  | 397932 | 26.114 | ug/L   | 100    |
| 35) Trichloroethene    | 9.09  | 95  | 92132  | 23.815 | ug/L   | 99     |
| 44) Toluene            | 10.39 | 91  | 381632 | 24.650 | ug/L   | 100    |
| 52) Chlorobenzene      | 11.66 | 112 | 194466 | 20.819 | ug/L   | 98     |

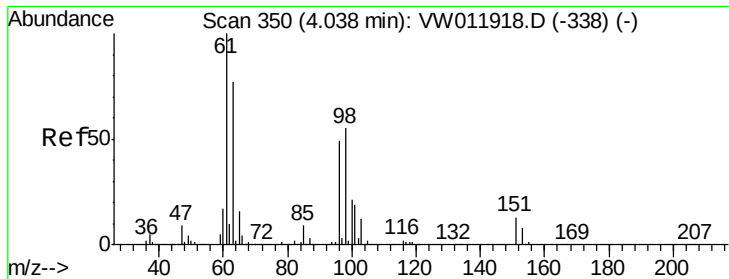
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 21.169 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW011922.D

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Instrument :

MSVOA\_W

ClientSampleId :

GANJ6MSD

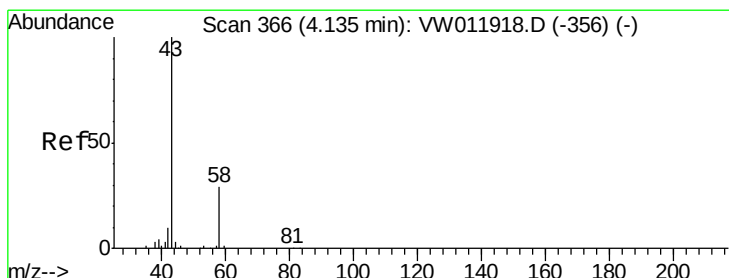
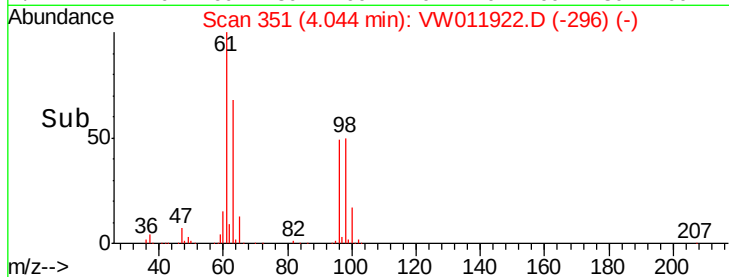
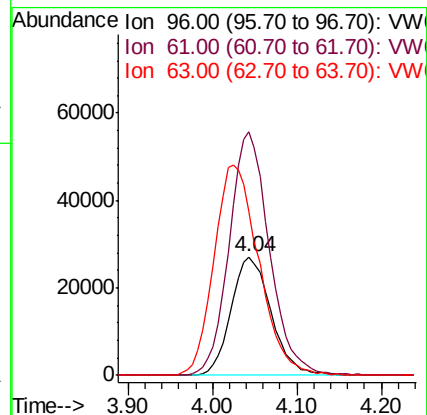
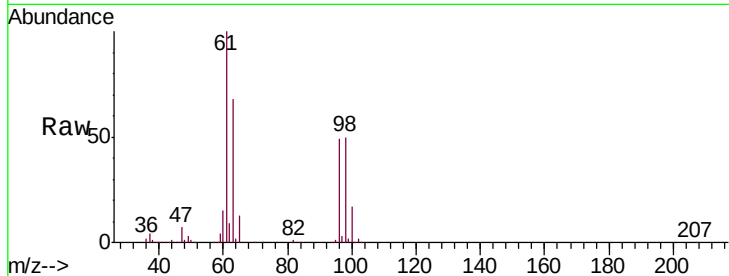
Tgt Ion: 96 Resp: 87379

Ion Ratio Lower Upper

96 100

61 205.5 135.0 250.8

63 139.2 89.2 165.8



#13

Acetone

Concen: 29.824 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW011922.D

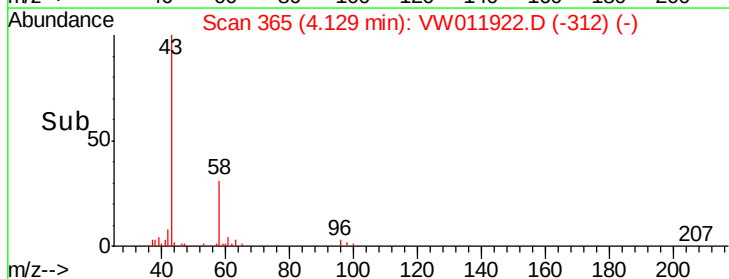
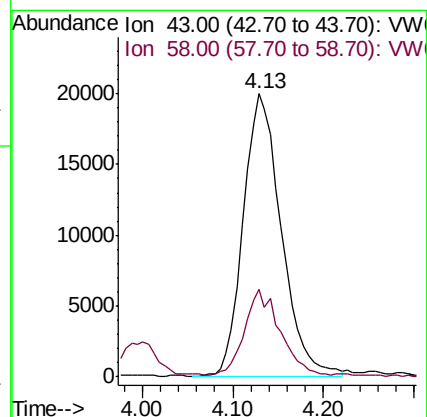
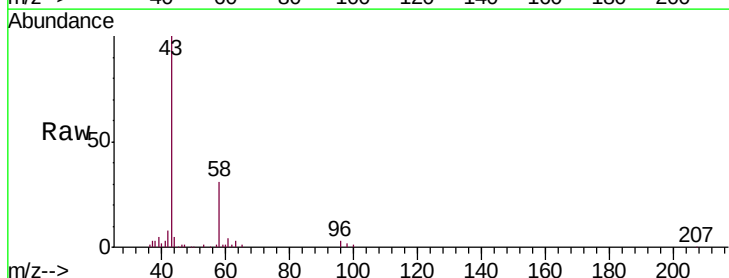
Acq: 15 Aug 2019 11:24

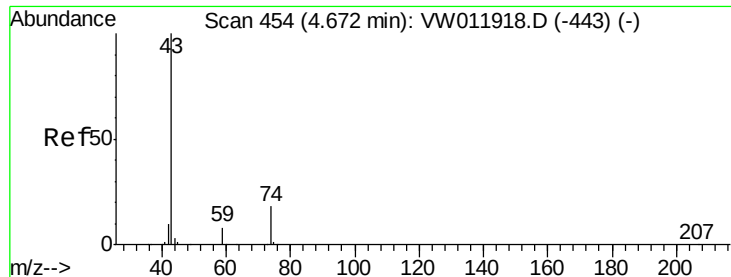
Tgt Ion: 43 Resp: 58203

Ion Ratio Lower Upper

43 100

58 28.3 0.0 53.4

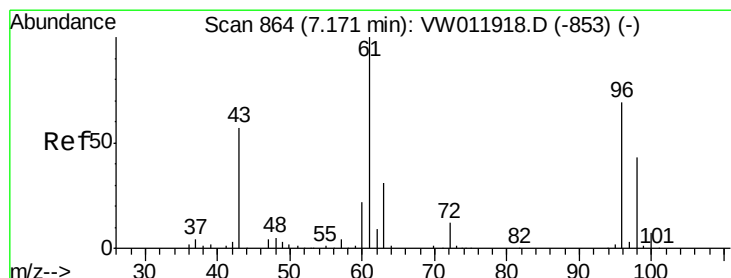
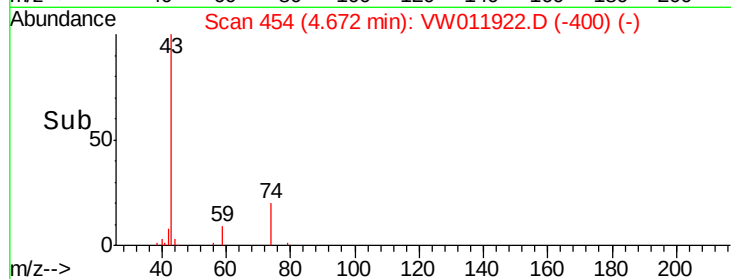
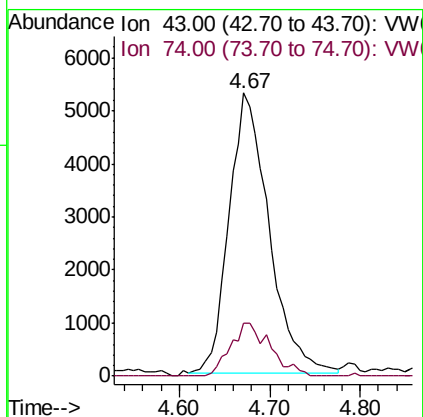
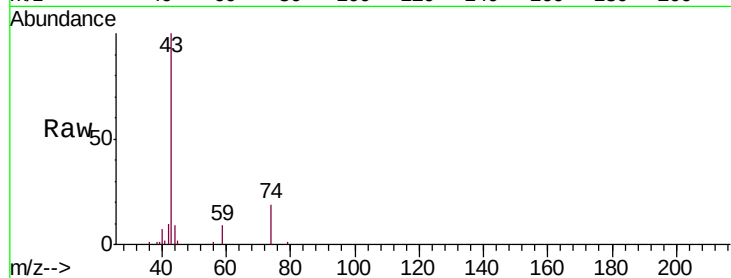




#15  
Methyl Acetate  
Concen: 5.057 ug/L  
RT: 4.67 min Scan# 454  
Delta R.T. -0.00 min  
Lab File: VW011922.D  
Acq: 15 Aug 2019 11:24

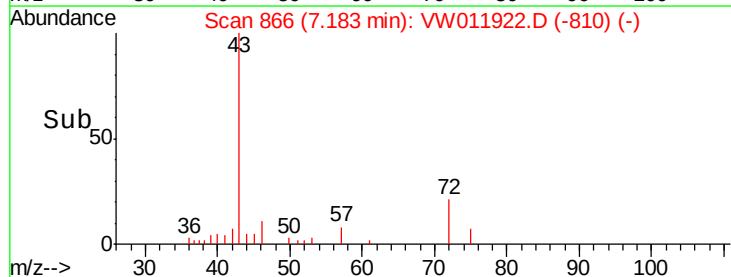
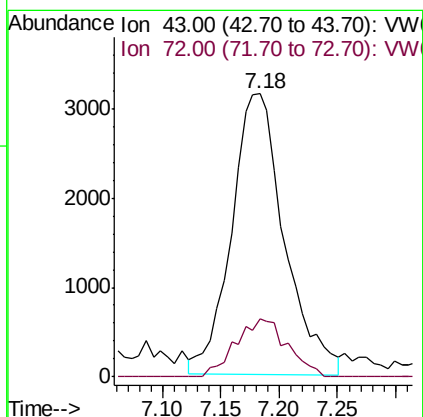
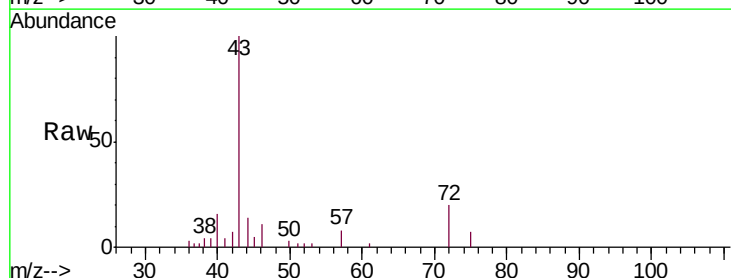
Instrument :  
MSVOA\_W  
ClientSampleId :  
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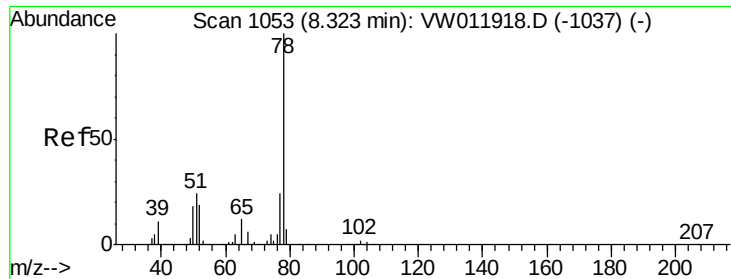
Tgt Ion: 43 Resp: 16135  
Ion Ratio Lower Upper  
43 100  
74 13.2 15.0 22.4#



#21  
2-Butanone  
Concen: 4.037 ug/L  
RT: 7.18 min Scan# 866  
Delta R.T. 0.01 min  
Lab File: VW011922.D  
Acq: 15 Aug 2019 11:24

Tgt Ion: 43 Resp: 9878  
Ion Ratio Lower Upper  
43 100  
72 20.3 10.7 32.1





#34

Benzene

Concen: 26.114 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW011922.D

Acq: 15 Aug 2019 11:24

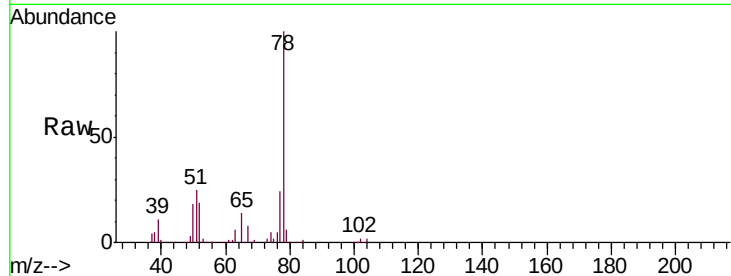
Instrument :

MSVOA\_W

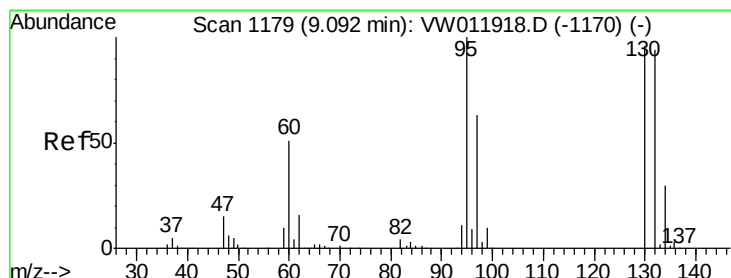
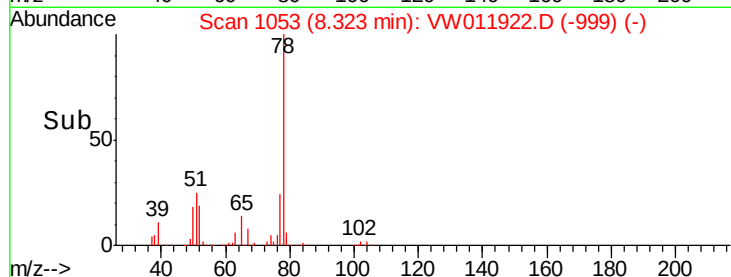
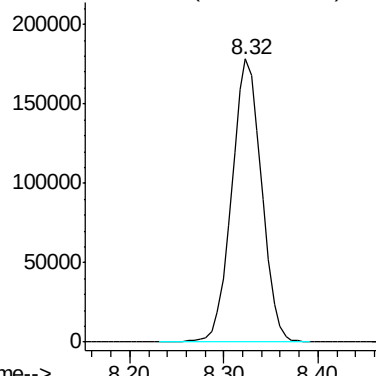
ClientSampleId :

GANJ6MSD

Tgt Ion: 78 Resp: 397932



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 23.815 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW011922.D

Acq: 15 Aug 2019 11:24

Tgt Ion: 95 Resp: 92132

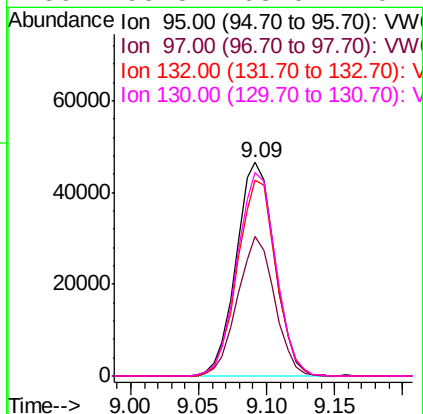
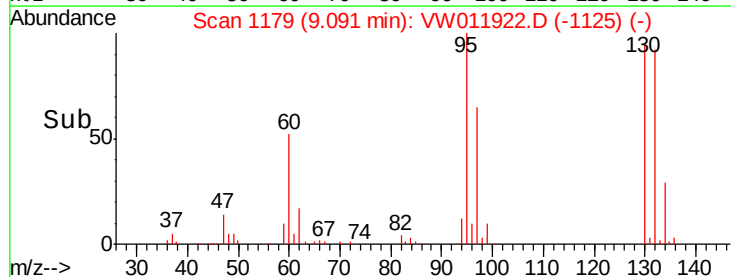
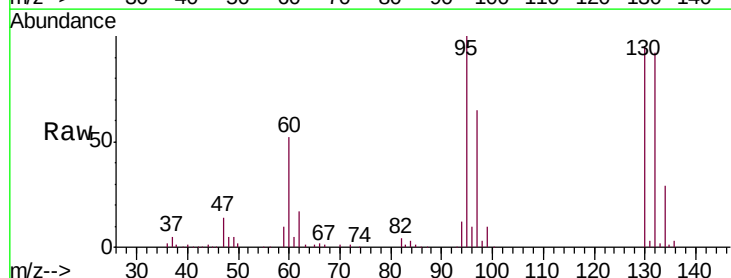
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 63.0  | 44.8  | 83.2  |
| 132 | 91.8  | 65.0  | 120.6 |
| 130 | 95.8  | 68.0  | 126.4 |

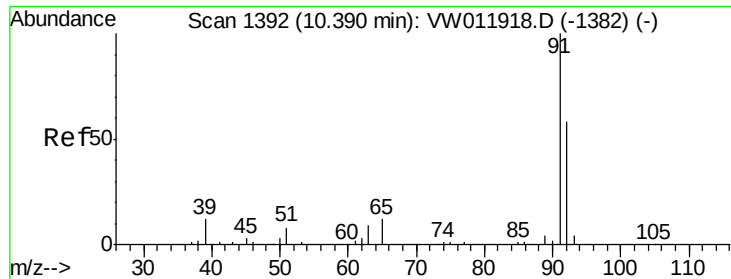
Abundance Ion 95.00 (94.70 to 95.70): VW

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: 24.650 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW011922.D

Acq: 15 Aug 2019 11:24

Instrument :

MSVOA\_W

ClientSampleId :

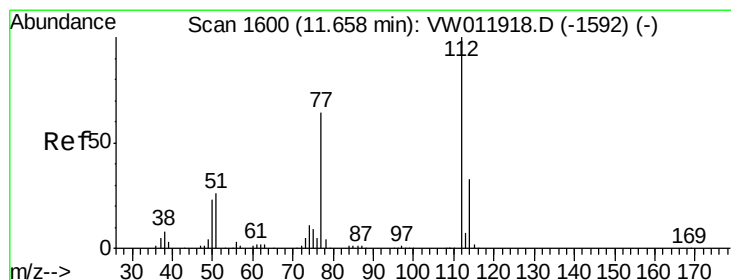
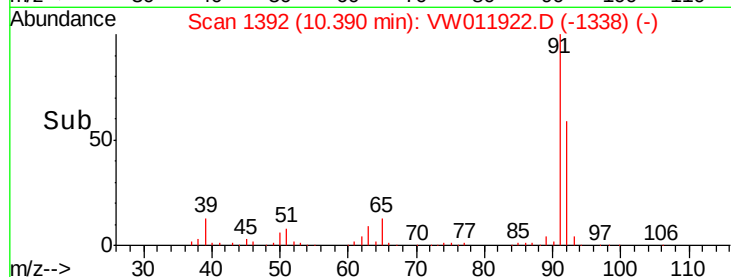
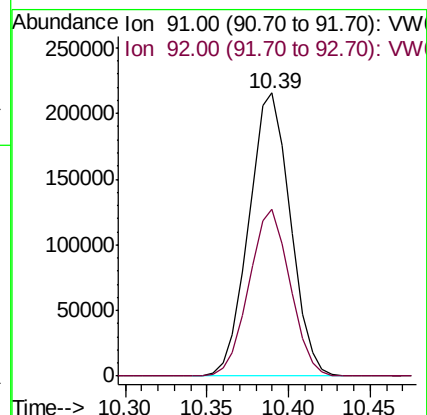
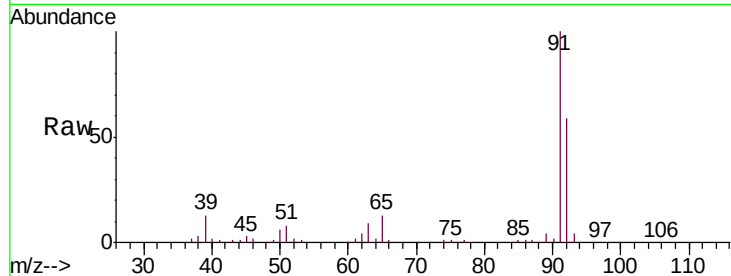
GANJ6MSD

Tgt Ion: 91 Resp: 381632

Ion Ratio Lower Upper

91 100

92 58.8 40.9 76.0



#52

Chlorobenzene

Concen: 20.819 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW011922.D

Acq: 15 Aug 2019 11:24

Tgt Ion: 112 Resp: 194466

Ion Ratio Lower Upper

112 100

77 65.4 51.0 76.4

114 32.7 22.4 41.6

