

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032619\  
 Data File : VW009488.D  
 Acq On : 27 Mar 2019 02:49  
 Operator : SY/VA  
 Sample : K2068-08  
 Misc : 5.71G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFC98

Manual Integrations  
 APPROVED

MMDadoda  
 3/30/2019 12:37:39 PM

Quant Time: Mar 27 09:20:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 27 08:01:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 240471   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 236834   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 96748    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 47894    | 16.67    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 66.68%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 56415    | 16.78    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 67.12%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 83396    | 13.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 53.72%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 61695    | 51.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 103.82% |
| 24) Chloroform-d               | 7.64   | 84    | 155442   | 23.69    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 94.76%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 99304    | 25.12    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 100.48% |
| 29) Benzene-d6                 | 8.27   | 84    | 250961   | 19.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 76.84%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 89372    | 22.78    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 91.12%  |
| 37) Toluene-d8                 | 10.32  | 98    | 210073   | 17.39    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 69.56%  |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 34539    | 17.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 70.12%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 38239    | 40.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 80.50%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 93783    | 24.27    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.08%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 81214    | 21.89    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 87.56%  |

| Target Compounds       |      |    |        |             | Ovalue |
|------------------------|------|----|--------|-------------|--------|
| 13) Acetone            | 4.12 | 43 | 13458  | 13.809 ug/L | 94     |
| 16) Methylene chloride | 4.92 | 84 | 11461m | 3.268 ug/L  |        |
| 21) 2-Butanone         | 7.18 | 43 | 3781m  | 2.810 ug/L  |        |

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

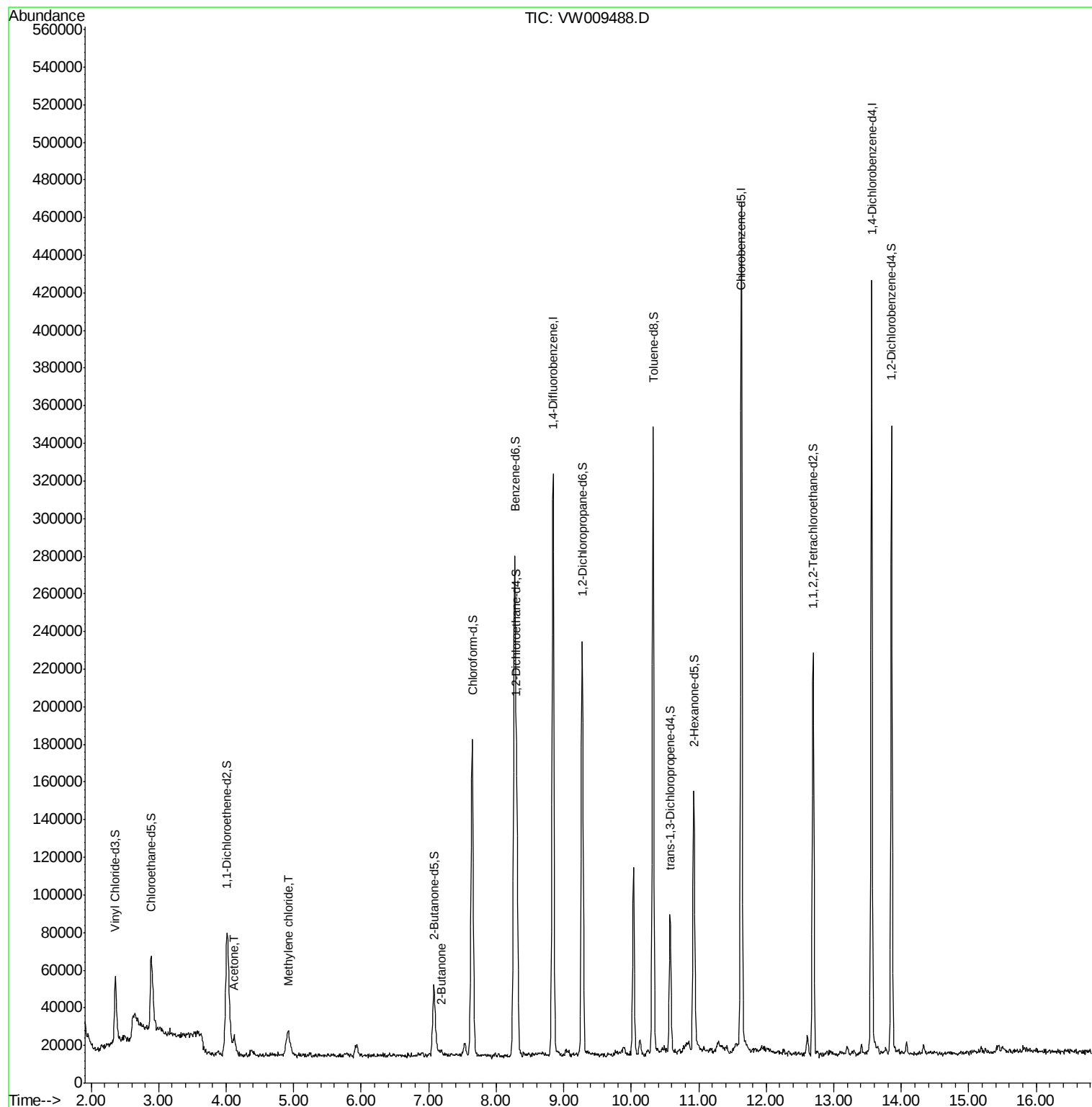
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032619\  
Data File : VW009488.D  
Acq On : 27 Mar 2019 02:49  
Operator : SY/VA  
Sample : K2068-08  
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ALS Vial : 1 Sample Multiplier: 1

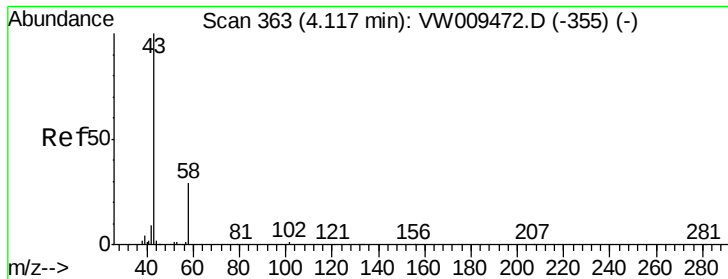
Instrument :  
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ClientSampleId :  
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Quant Time: Mar 27 09:20:23 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Mar 27 08:01:36 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 13.809 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW009488.D

Acq: 27 Mar 2019 02:49

Instrument :

MSVOA\_W

ClientSampled :

BFC98

Tot Ion: 43 Resp: 13458

Ion Ratio Lower Upper

43 100

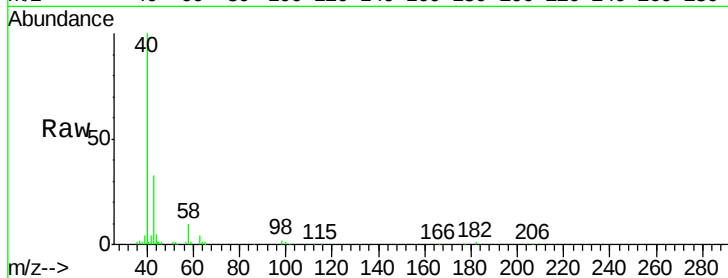
58 24.8 0.0 56.2

Manual Integrations

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3/30/2019 12:37:39 PM



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

5000

4000

3000

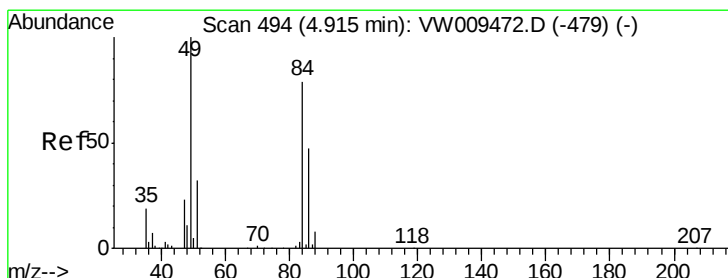
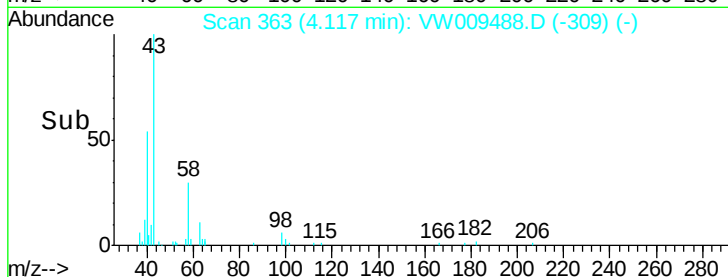
2000

1000

0

Time-->

4.05 4.10 4.15 4.20



#16

Methylene chloride

Concen: 3.268 ug/L m

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW009488.D

Acq: 27 Mar 2019 02:49

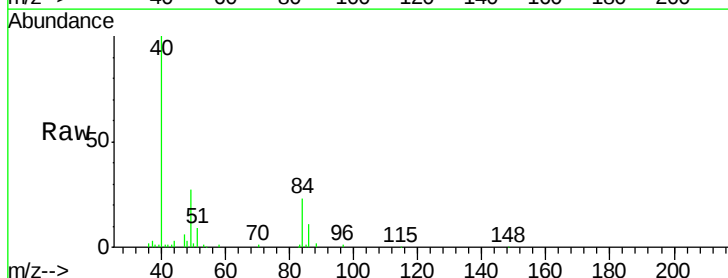
Tgt Ion: 84 Resp: 11461

Ion Ratio Lower Upper

84 100

49 114.1 96.0 178.2

86 45.1 44.4 82.5



Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW

5000

4000

3000

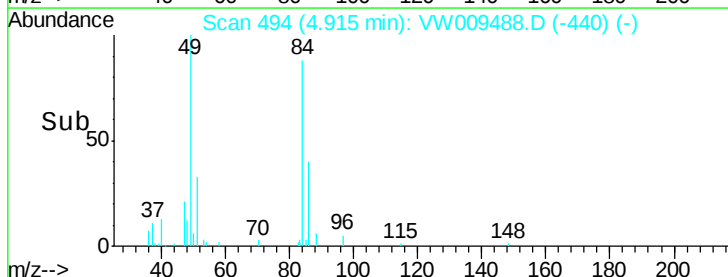
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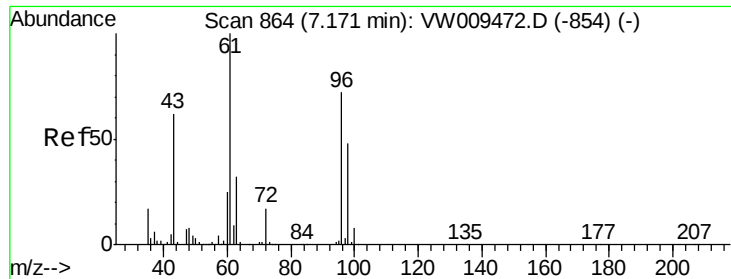
1000

0

Time-->

4.80 4.90 5.00 5.10





#21  
 2-Butanone  
 Concen: 2.810 ug/L m  
 RT: 7.18 min Scan# 866  
 Delta R.T. 0.01 min  
 Lab File: VW009488.D  
 Acq: 27 Mar 2019 02:49

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 ClientSampleID :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 3.4   | 13.1  | 39.1# |

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