

Data File : VV011047.D  
Acq On : 24 May 2019 02:43  
Operator : SY/MD  
Sample : K3016-15  
Misc : 5.31G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51D2

Manual Integrations  
APPROVED

MMDadoda  
5/28/2019 2:55:08 AM

Quant Time: May 24 09:29:08 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052019S.M  
Quant Title : VOC Analysis  
QLast Update : Fri May 24 09:03:49 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 87535    | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 83391    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 27353    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 17469    | 17.51    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 70.04%   |
| 7) Chloroethane-d5             | 1.56   | 69    | 14513    | 21.48    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 85.92%   |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 26153    | 13.63    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 54.52%   |
| 20) 2-Butanone-d5              | 3.94   | 46    | 34044    | 98.87    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 197.74%# |
| 24) Chloroform-d               | 4.40   | 84    | 60361    | 26.62    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 106.48%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 36663    | 27.44    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 109.76%  |
| 29) Benzene-d6                 | 5.10   | 84    | 109893   | 24.14    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 96.56%   |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 39808    | 27.52    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 110.08%  |
| 37) Toluene-d8                 | 7.36   | 98    | 89186    | 21.07    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 84.28%   |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 14088    | 23.72    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 94.88%   |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 27462    | 101.79   | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 203.58%# |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 48267    | 33.42    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 133.68%# |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 24941    | 22.46    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 89.84%   |

| Target Compounds   |      |    |       |        |      | Qvalue |
|--------------------|------|----|-------|--------|------|--------|
| 13) Acetone        | 2.19 | 43 | 19306 | 58.139 | ug/L | 91     |
| 15) Methyl Acetate | 2.46 | 43 | 9457  | 14.823 | ug/L | 99     |
| 21) 2-Butanone     | 4.04 | 43 | 2596m | 5.713  | ug/L |        |

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

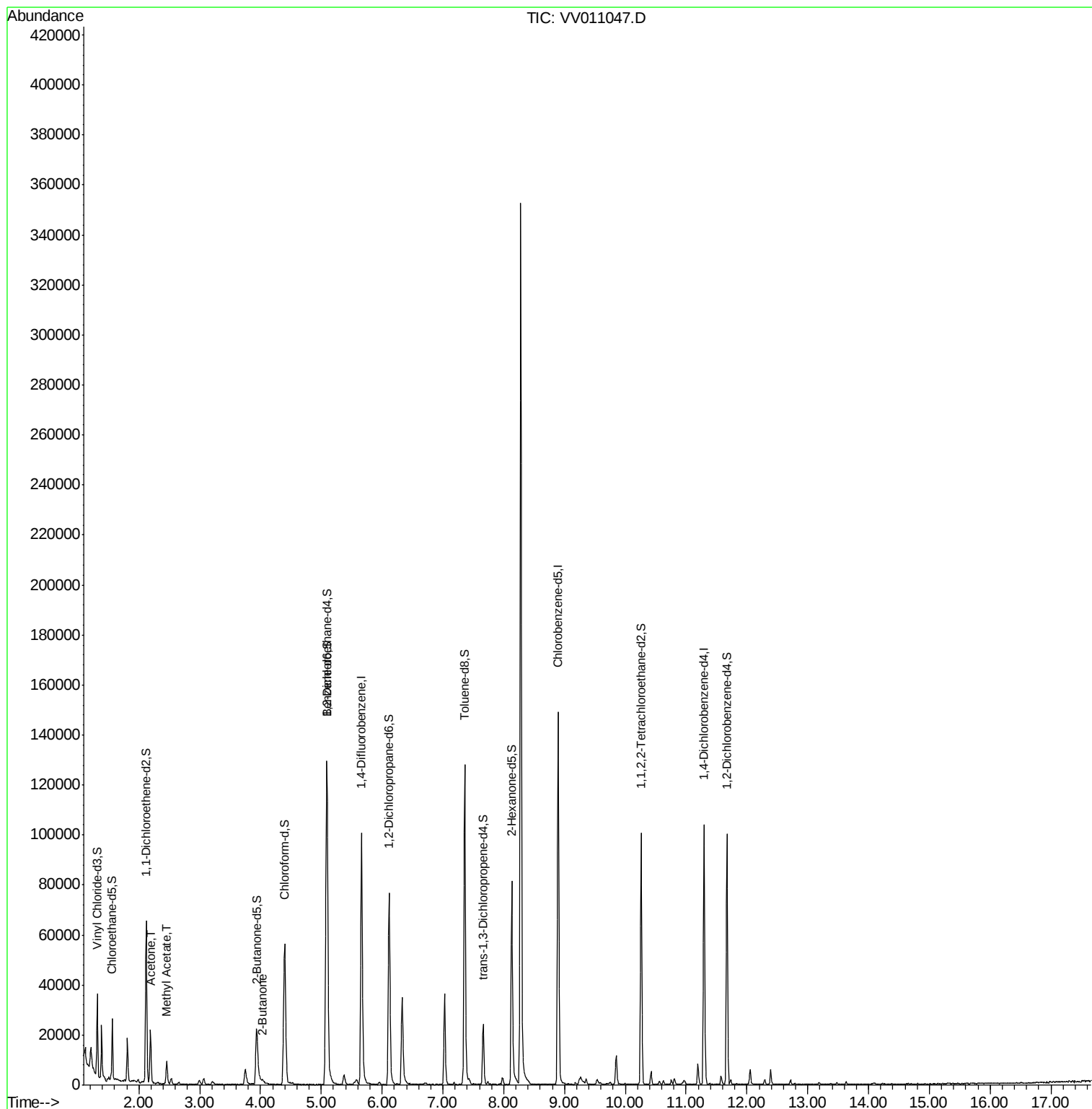
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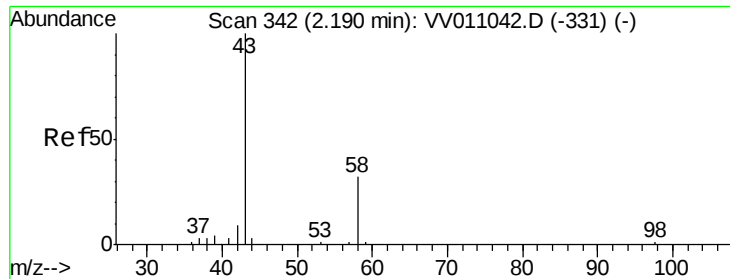
Instrument :  
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Quant Title : VOC Analysis  
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Response via : Initial Calibration





#13

Acetone

Concen: 58.139 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

Lab File: VV011047.D

Acq: 24 May 2019 02:43

Instrument :

MSVOA\_V

ClientSampled :

A51D2

Tgt Ion: 43 Resp: 19306

Ion Ratio Lower Upper

43 100

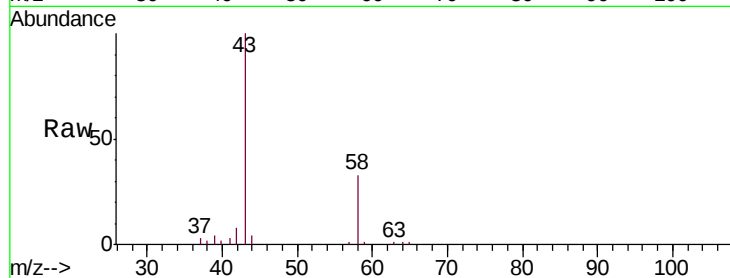
58 35.0 0.0 60.8

Manual Integrations

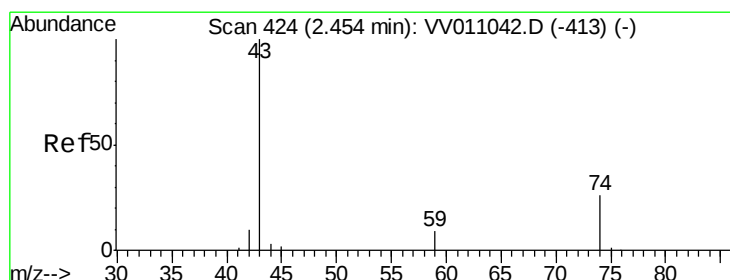
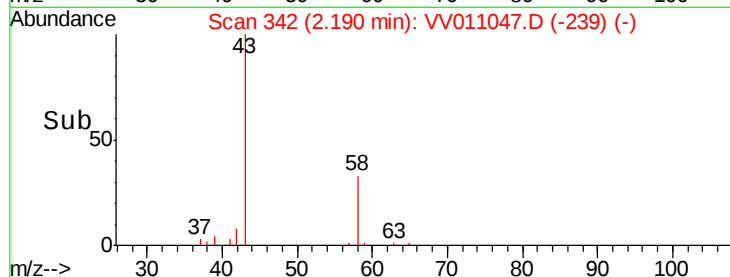
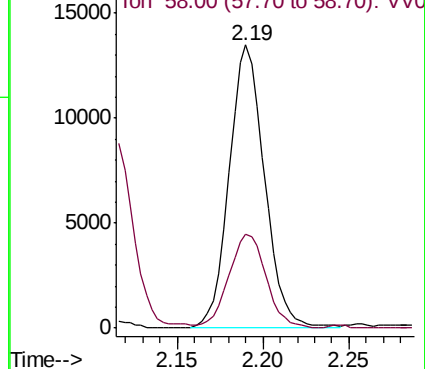
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5/28/2019 2:55:08 AM



Abundance Ion 43.00 (42.70 to 43.70): VV011047.D (-239) (-)



#15

Methyl Acetate

Concen: 14.823 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.01 min

Lab File: VV011047.D

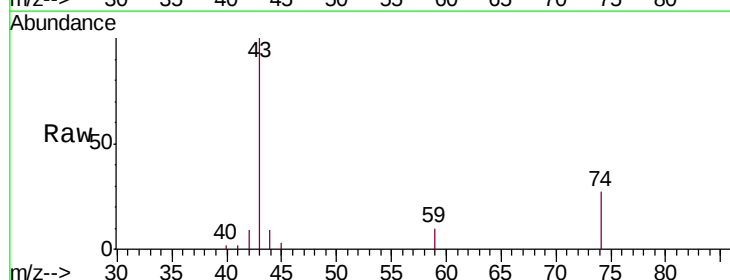
Acq: 24 May 2019 02:43

Tgt Ion: 43 Resp: 9457

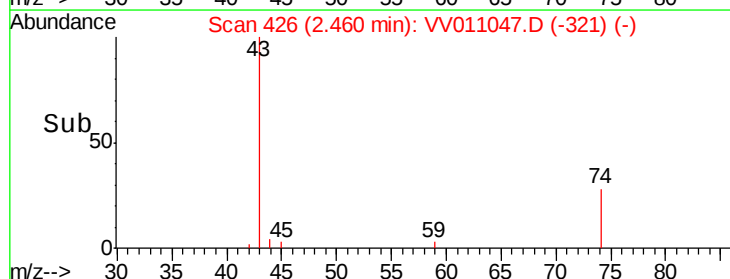
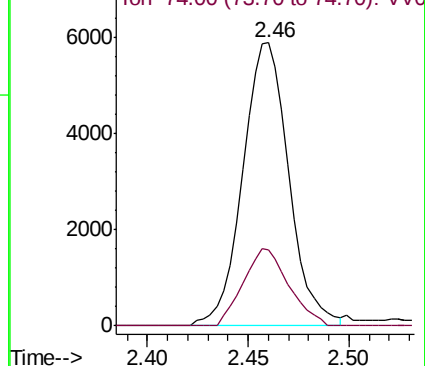
Ion Ratio Lower Upper

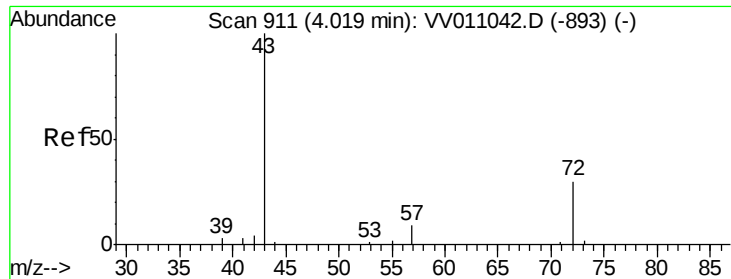
43 100

74 26.7 21.1 31.7



Abundance Ion 43.00 (42.70 to 43.70): VV011047.D (-321) (-)





#21  
 2-Butanone  
 Concen: 5.713 ug/L m  
 RT: 4.04 min Scan# 917  
 Delta R.T. 0.02 min  
 Lab File: VV011047.D  
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Instrument :  
 MSVOA\_V  
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Tgt Ion: 43 Resp: 2596  
 Ion Ratio Lower Upper  
 43 100  
 72 1.8 13.1 39.3#

Manual Integrations  
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