

Data File : VV010081.D  
Acq On : 03 Apr 2019 01:52  
Operator : SY/MD  
Sample : K2148-19  
Misc : 3.49G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF5G6

Quant Time: Apr 03 06:52:19 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Apr 03 06:44:57 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 161455   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 153222   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 53446    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 24059    | 11.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 44.52%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 43654    | 16.26    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 65.04%  |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 56709    | 10.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 41.60%# |
| 20) 2-Butanone-d5              | 3.97   | 46    | 1802     | 2.93     | ug/L | 0.03    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 5.86%#  |
| 24) Chloroform-d               | 4.40   | 84    | 98264    | 24.16    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 96.64%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 73368    | 32.24    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 128.96% |
| 29) Benzene-d6                 | 5.10   | 84    | 180761   | 22.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 91.00%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 68197    | 29.08    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 116.32% |
| 37) Toluene-d8                 | 7.36   | 98    | 158793   | 20.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 82.96%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 5752     | 5.74     | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 22.96%# |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 1725     | 3.67     | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 7.34%#  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 61107    | 26.42    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 105.68% |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 49982    | 24.01    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 96.04%  |

#### Target Compounds

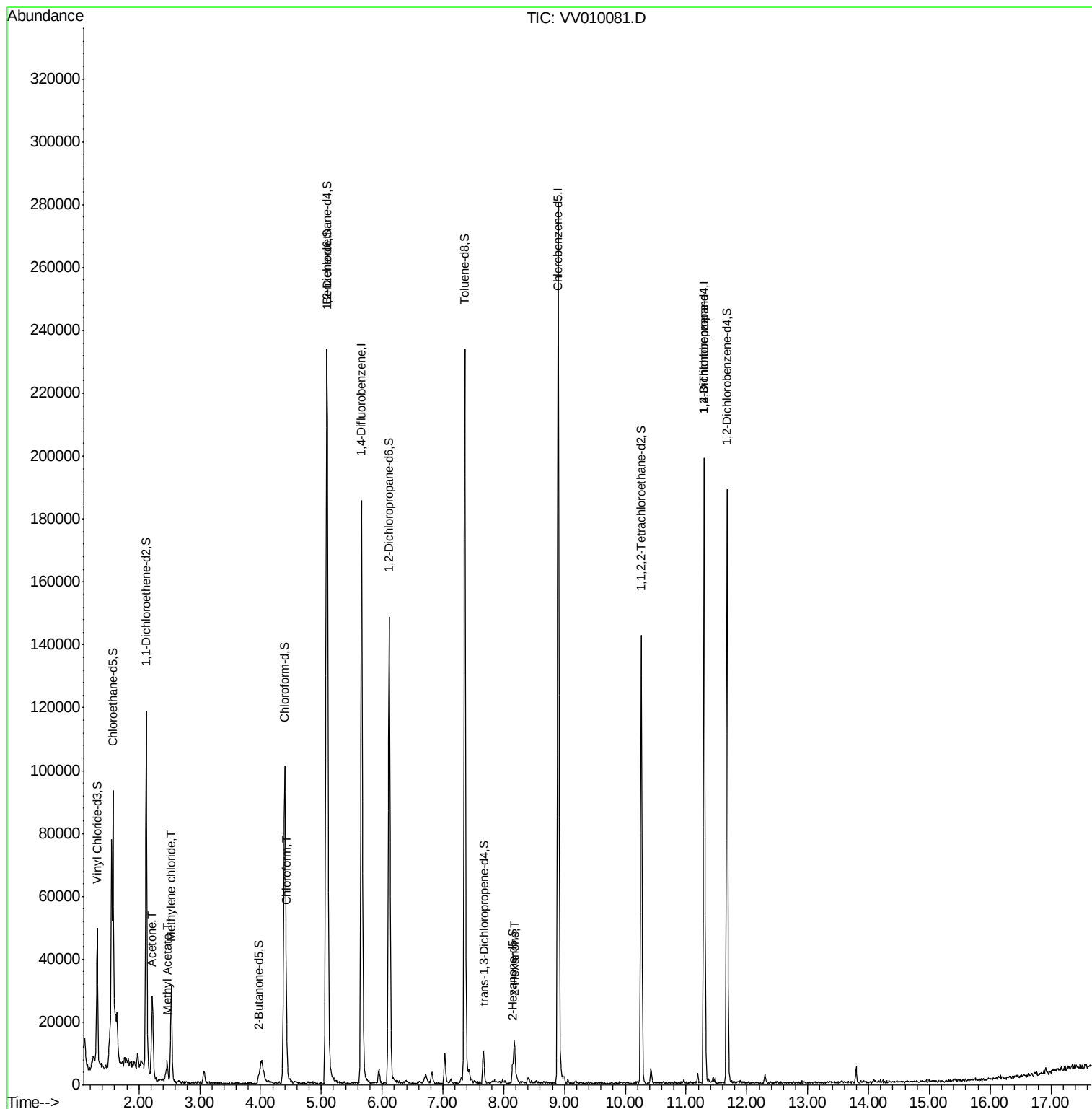
|                            |       |    |       |        |        | Qvalue |
|----------------------------|-------|----|-------|--------|--------|--------|
| 13) Acetone                | 2.21  | 43 | 12817 | 21.077 | ug/L   | 98     |
| 15) Methyl Acetate         | 2.47  | 43 | 6773  | 6.961  | ug/L   | 99     |
| 16) Methylene chloride     | 2.53  | 84 | 11794 | 4.158  | ug/L   | 97     |
| 25) Chloroform             | 4.43  | 83 | 1961  | 0.534  | ug/L # | 1      |
| 49) 2-Hexanone             | 8.17  | 43 | 9087  | 9.082  | ug/L # | 41     |
| 59) 1,2,3-Trichloropropane | 11.30 | 75 | 6745  | 4.363  | ug/L   | 89     |

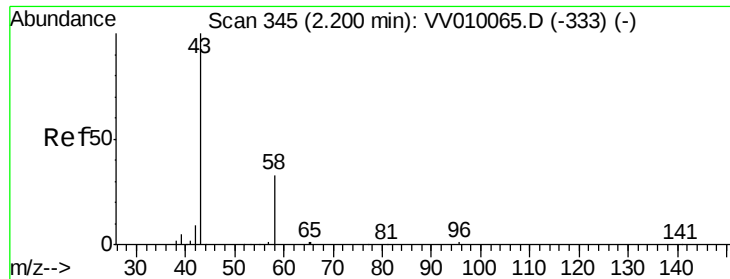
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 21.077 ug/L

RT: 2.21 min Scan# 347

Delta R.T. 0.01 min

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Acq: 03 Apr 2019 01:52

Instrument :

MSVOA\_V

ClientSampleId :

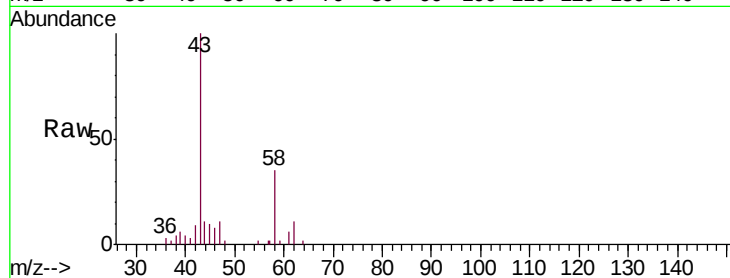
BF5G6

Tgt Ion: 43 Resp: 12817

Ion Ratio Lower Upper

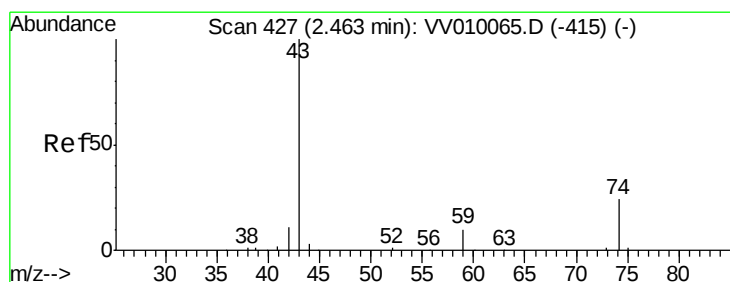
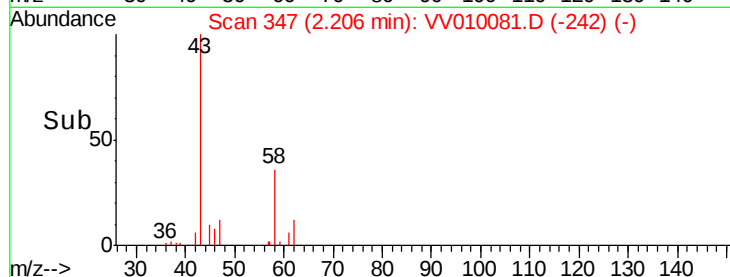
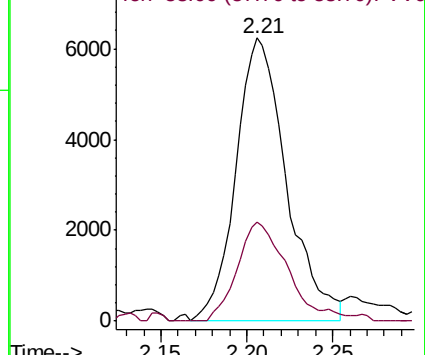
43 100

58 33.4 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#15

Methyl Acetate

Concen: 6.961 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VV010081.D

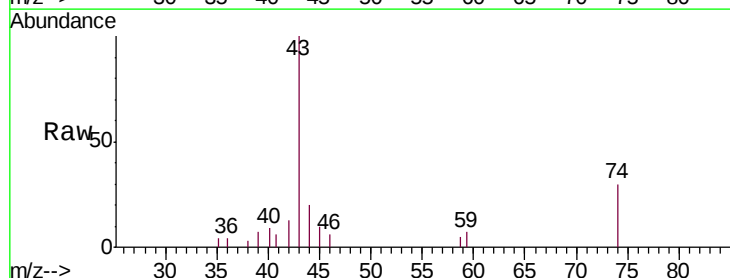
Acq: 03 Apr 2019 01:52

Tgt Ion: 43 Resp: 6773

Ion Ratio Lower Upper

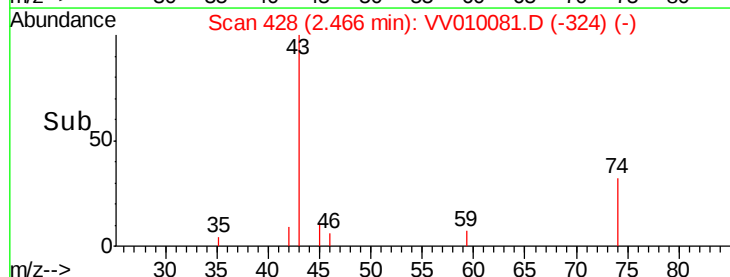
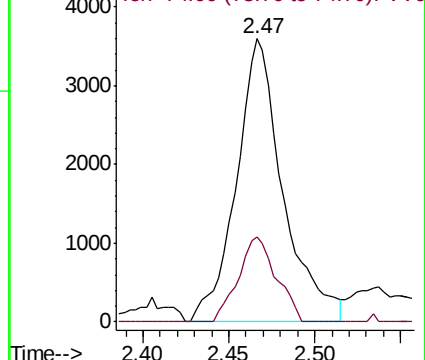
43 100

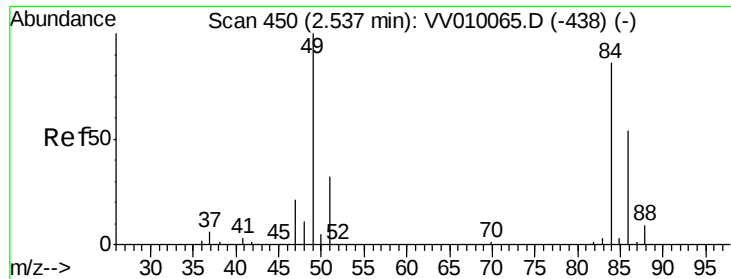
74 24.3 20.0 30.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

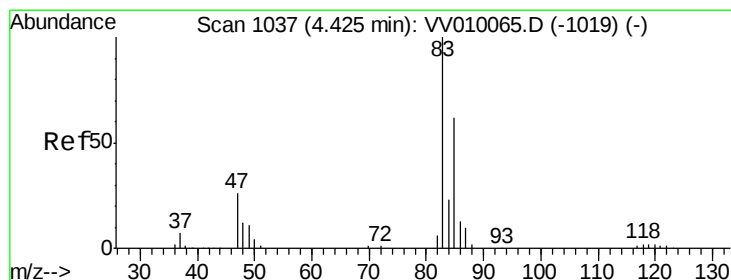
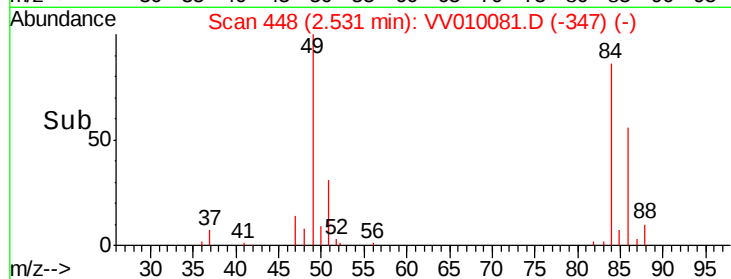
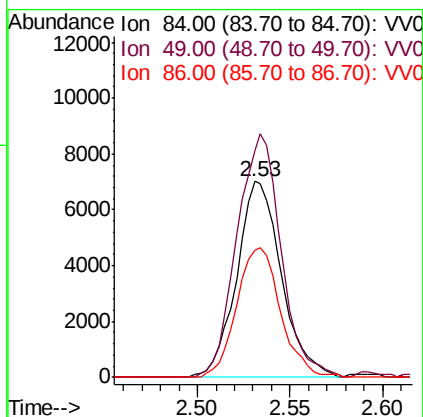
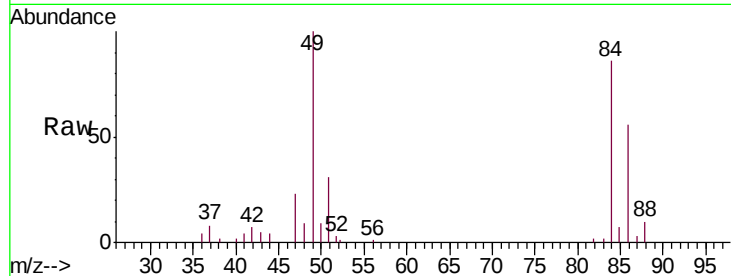




#16  
Methylene chloride  
Concen: 4.158 ug/L  
RT: 2.53 min Scan# 448  
Delta R.T. -0.01 min  
Lab File: VV010081.D  
Acq: 03 Apr 2019 01:52

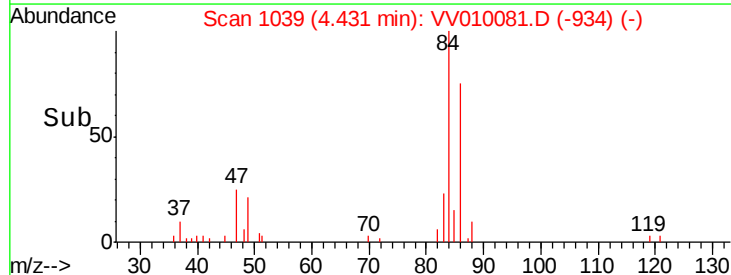
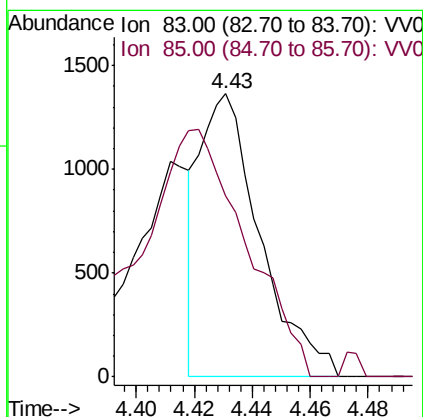
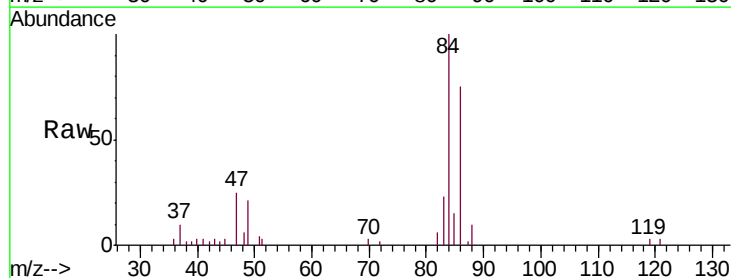
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MSVOA\_V  
ClientSampleId :  
BF5G6

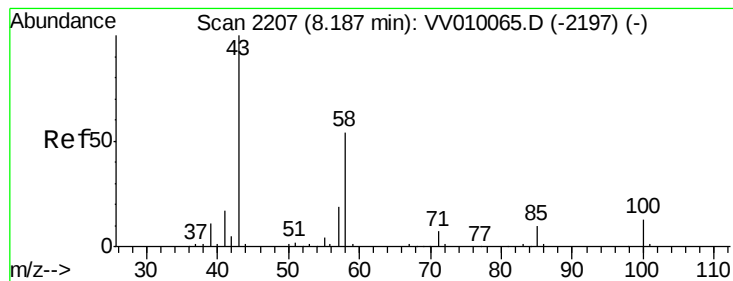
Tgt Ion: 84 Resp: 11794  
Ion Ratio Lower Upper  
84 100  
49 115.9 84.3 156.5  
86 65.2 45.4 84.2



#25  
Chloroform  
Concen: 0.534 ug/L  
RT: 4.43 min Scan# 1039  
Delta R.T. 0.01 min  
Lab File: VV010081.D  
Acq: 03 Apr 2019 01:52

Tgt Ion: 83 Resp: 1961  
Ion Ratio Lower Upper  
83 100  
85 158.4 46.4 86.2#





#49

2-Hexanone

Concen: 9.082 ug/L

RT: 8.17 min Scan# 2203

Delta R.T. -0.01 min

Lab File: VV010081.D

Acq: 03 Apr 2019 01:52

Instrument :

MSVOA\_V

ClientSampleId :

BF5G6

Tgt Ion: 43 Resp: 9087

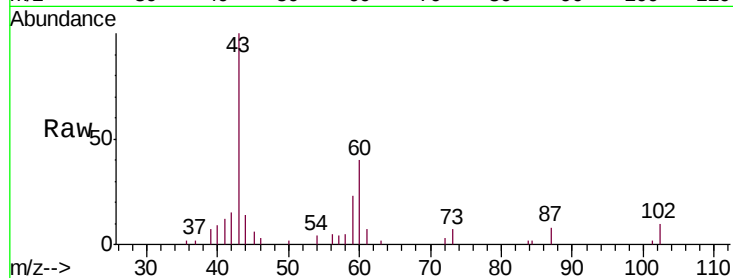
Ion Ratio Lower Upper

43 100

58 2.3 44.3 66.5#

57 2.2 13.8 20.8#

100 0.0 10.6 15.8#

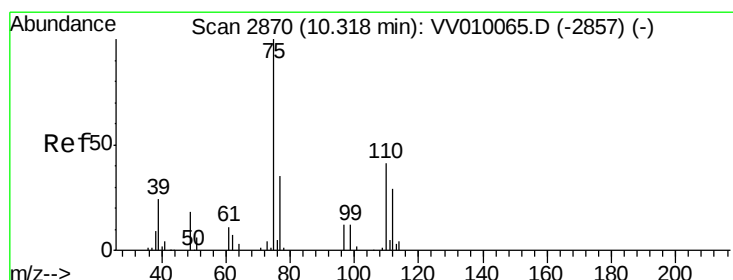
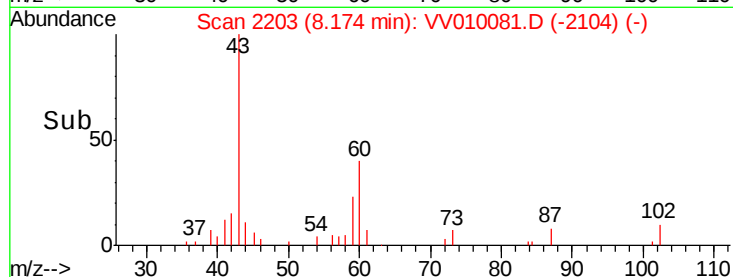
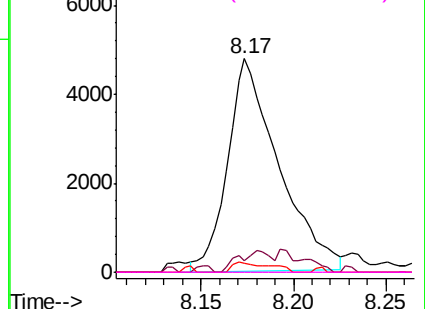


Abundance Ion 43.00 (42.70 to 43.70): VV010065.D (-2197) (-)

Ion 58.00 (57.70 to 58.70): VV010065.D (-2197) (-)

Ion 57.00 (56.70 to 57.70): VV010065.D (-2197) (-)

Ion 100.00 (99.70 to 100.70): VV010065.D (-2197) (-)



#59

1,2,3-Trichloropropane

Concen: 4.363 ug/L

RT: 11.30 min Scan# 3175

Delta R.T. 0.98 min

Lab File: VV010081.D

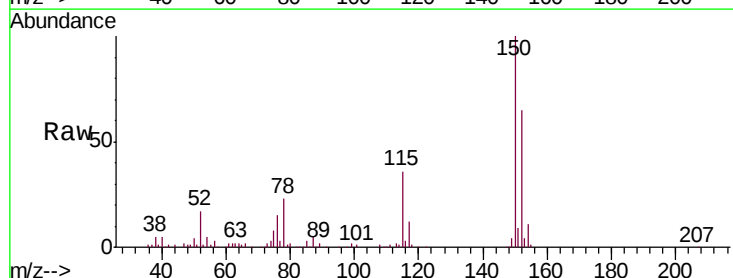
Acq: 03 Apr 2019 01:52

Tgt Ion: 75 Resp: 6745

Ion Ratio Lower Upper

75 100

77 38.5 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV010065.D (-2857) (-)

Ion 77.00 (76.70 to 77.70): VV010065.D (-2857) (-)

