

Data File : VV009992.D  
Acq On : 29 Mar 2019 04:00  
Operator : SY/MD  
Sample : K2120-01  
Misc : 4.26G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF5C4

Quant Time: Mar 29 04:25:33 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM032619S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 29 04:20:29 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 171798   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 135526   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 34635    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 75565    | 21.68    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 86.72%   |
| 7) Chloroethane-d5             | 1.55   | 69    | 96791    | 25.71    | ug/L | -0.02    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 102.84%  |
| 10) 1,1-Dichloroethene-d2      | 2.11   | 63    | 128156   | 13.44    | ug/L | -0.02    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 53.76%   |
| 20) 2-Butanone-d5              | 3.93   | 46    | 8876     | 13.66    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 27.32%   |
| 24) Chloroform-d               | 4.39   | 84    | 79325    | 18.12    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 72.48%   |
| 26) 1,2-Dichloroethane-d4      | 5.07   | 65    | 65635    | 24.92    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 99.68%   |
| 29) Benzene-d6                 | 5.09   | 84    | 222000   | 31.19    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 124.76%  |
| 33) 1,2-Dichloropropane-d6     | 6.11   | 67    | 66089    | 31.74    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 126.96%# |
| 37) Toluene-d8                 | 7.36   | 98    | 183311   | 27.21    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 108.84%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 11028    | 12.95    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 51.80%   |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 6560     | 16.88    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 33.76%   |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 42195    | 20.47    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 81.88%   |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 31738    | 24.07    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 96.28%   |

#### Target Compounds

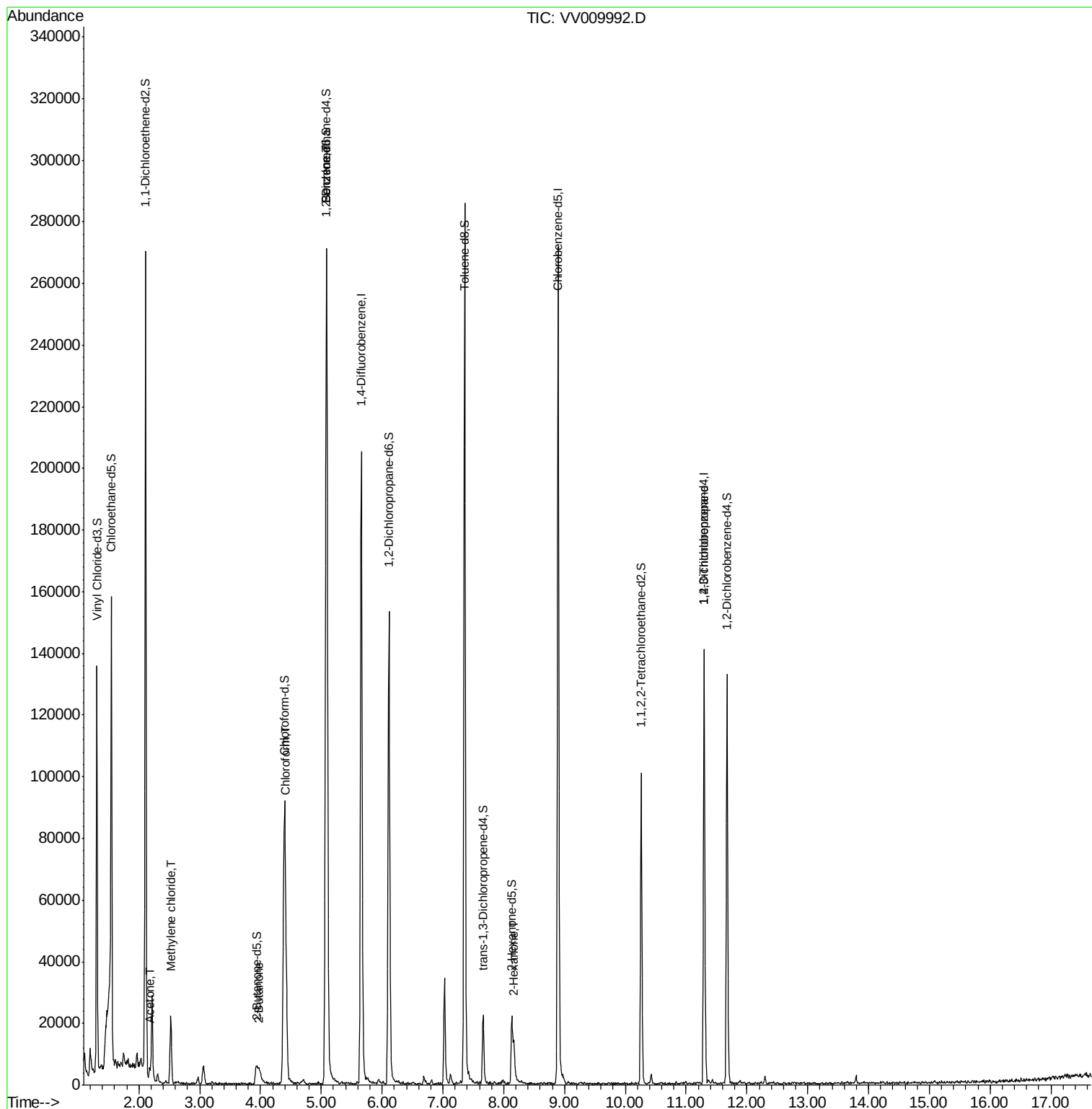
|                            |       |    |       |       |        | Qvalue |
|----------------------------|-------|----|-------|-------|--------|--------|
| 13) Acetone                | 2.18  | 43 | 3124  | 3.176 | ug/L   | 97     |
| 16) Methylene chloride     | 2.52  | 84 | 8538  | 3.018 | ug/L   | 97     |
| 21) 2-Butanone             | 3.98  | 43 | 5901  | 6.736 | ug/L # | 55     |
| 25) Chloroform             | 4.42  | 83 | 30971 | 6.804 | ug/L   | 100    |
| 34) Benzene                | 5.09  | 78 | 1791  | 0.241 | ug/L   | 100    |
| 49) 2-Hexanone             | 8.17  | 43 | 8222  | 9.167 | ug/L # | 45     |
| 59) 1,2,3-Trichloropropane | 11.30 | 75 | 5558  | 3.715 | ug/L   | 95     |

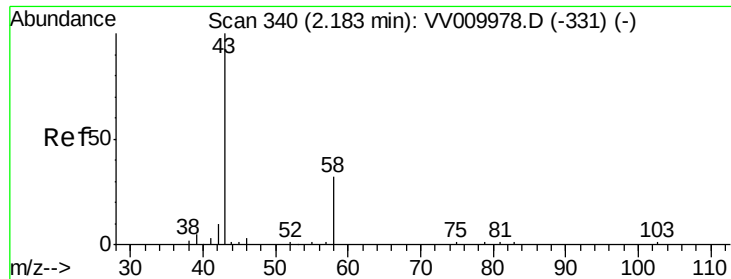
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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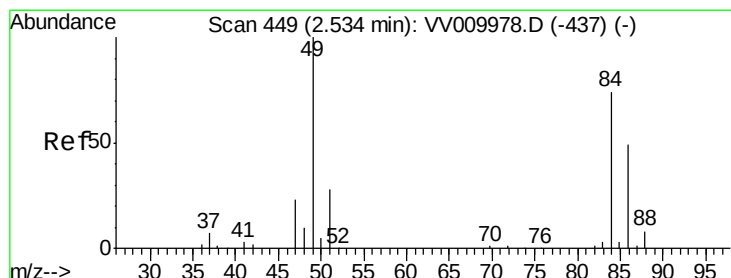
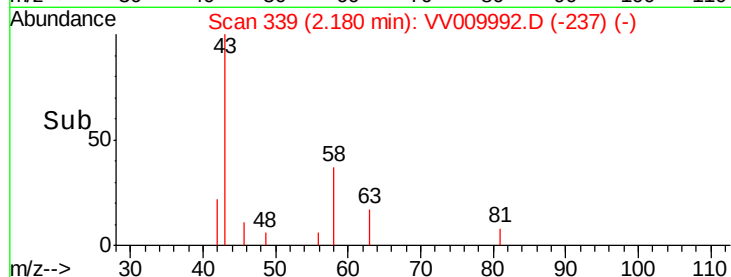
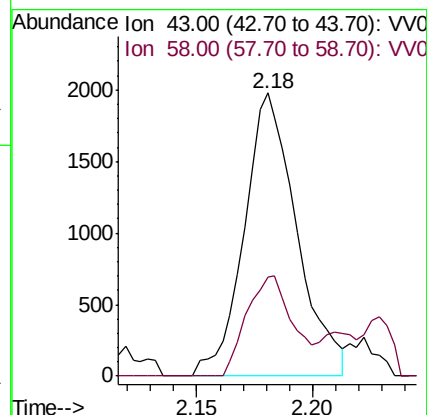
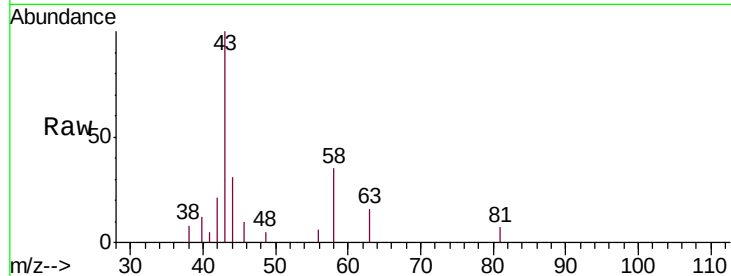




#13  
Acetone  
Concen: 3.176 ug/L  
RT: 2.18 min Scan# 339  
Delta R.T. -0.00 min  
Lab File: VV009992.D  
Acq: 29 Mar 2019 04:00

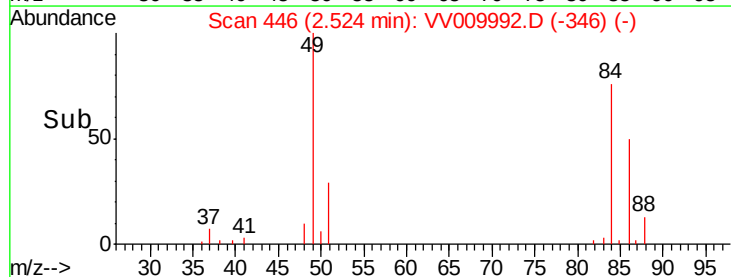
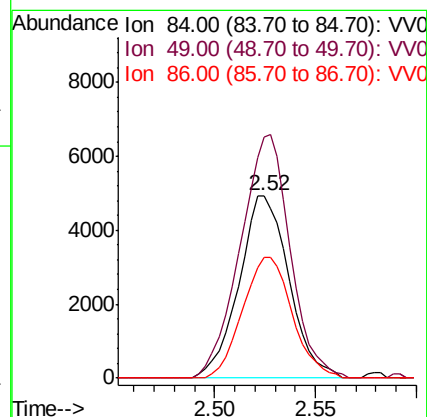
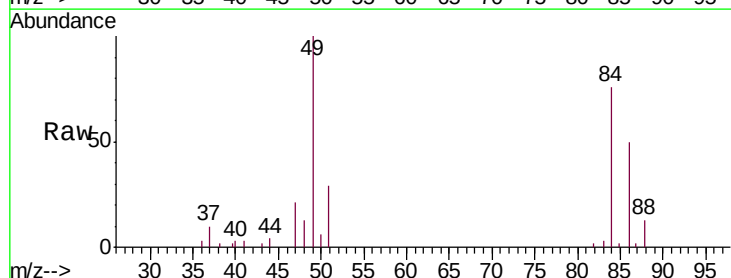
Instrument :  
MSVOA\_V  
ClientSampled :  
BF5C4

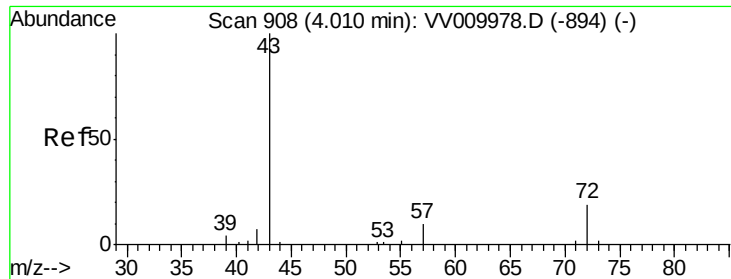
Tgt Ion: 43 Resp: 3124  
Ion Ratio Lower Upper  
43 100  
58 31.1 0.0 59.4



#16  
Methylene chloride  
Concen: 3.018 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. -0.01 min  
Lab File: VV009992.D  
Acq: 29 Mar 2019 04:00

Tgt Ion: 84 Resp: 8538  
Ion Ratio Lower Upper  
84 100  
49 132.4 90.4 167.8  
86 66.3 44.0 81.6

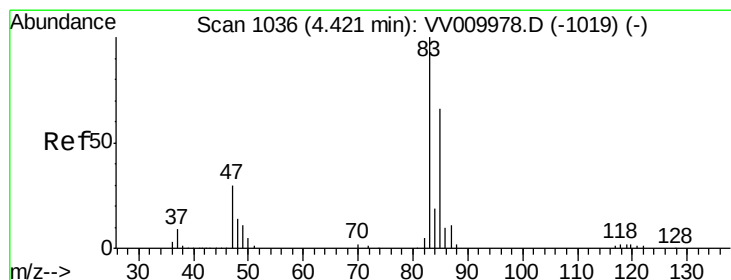
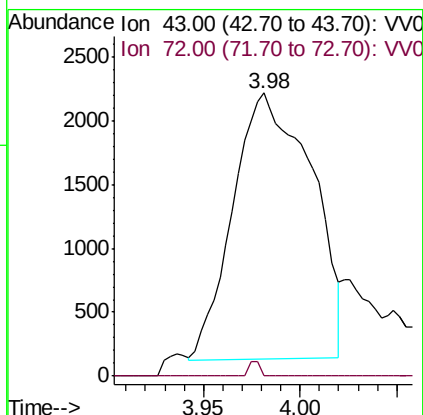
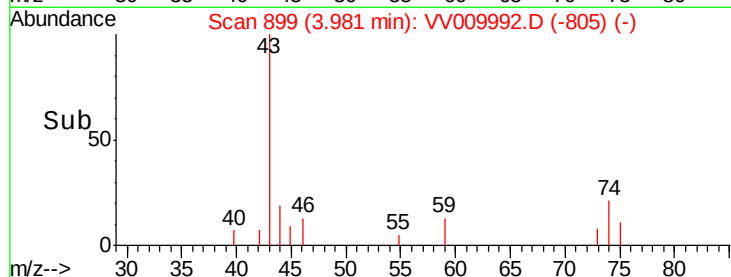
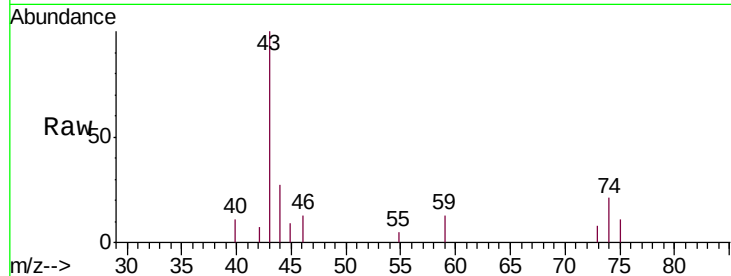




#21  
 2-Butanone  
 Concen: 6.736 ug/L  
 RT: 3.98 min Scan# 899  
 Delta R.T. -0.03 min  
 Lab File: VV009992.D  
 Acq: 29 Mar 2019 04:00

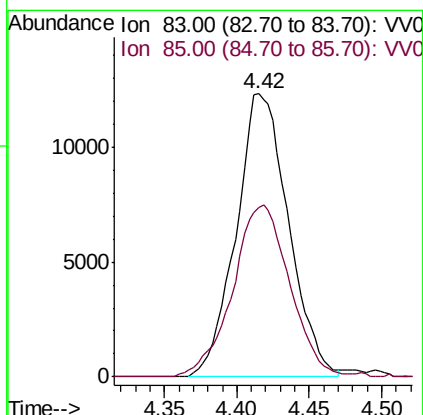
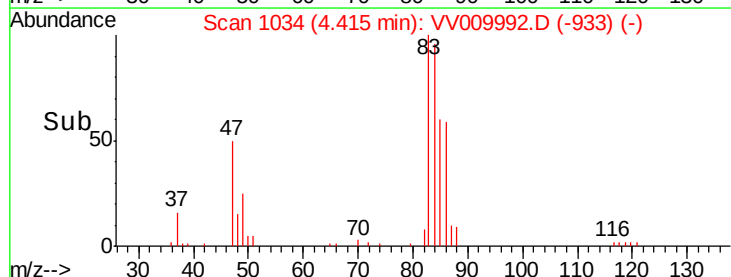
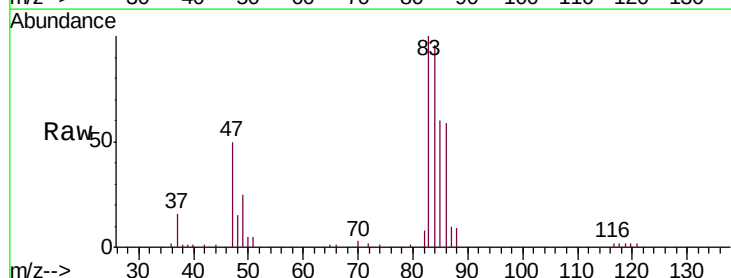
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF5C4

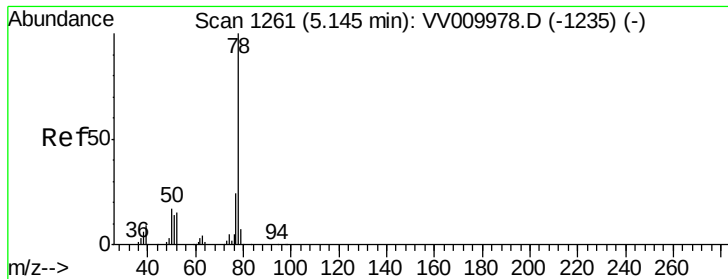
Tgt Ion: 43 Resp: 5901  
 Ion Ratio Lower Upper  
 43 100  
 72 0.7 11.1 33.1#



#25  
 Chloroform  
 Concen: 6.804 ug/L  
 RT: 4.42 min Scan# 1034  
 Delta R.T. -0.01 min  
 Lab File: VV009992.D  
 Acq: 29 Mar 2019 04:00

Tgt Ion: 83 Resp: 30971  
 Ion Ratio Lower Upper  
 83 100  
 85 66.1 46.1 85.7





#34

Benzene

Concen: 0.241 ug/L

RT: 5.09 min Scan# 1243

Delta R.T. -0.06 min

Lab File: VV009992.D

Acq: 29 Mar 2019 04:00

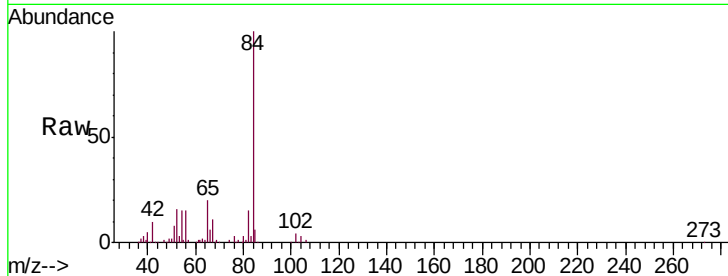
Instrument :

MSVOA\_V

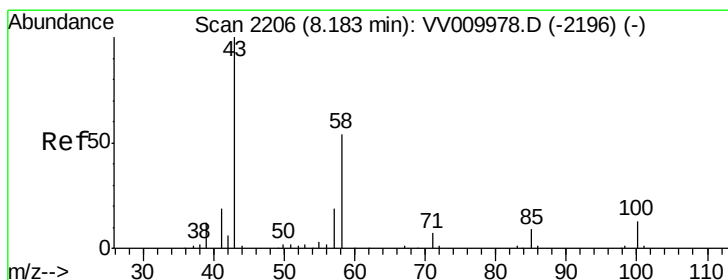
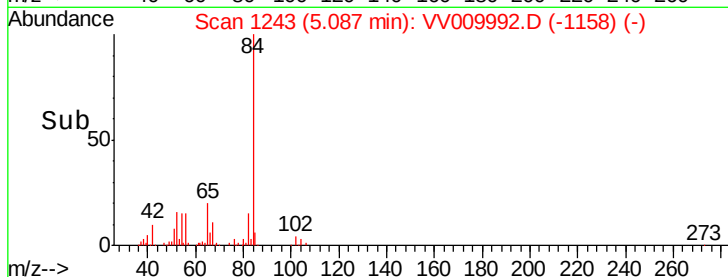
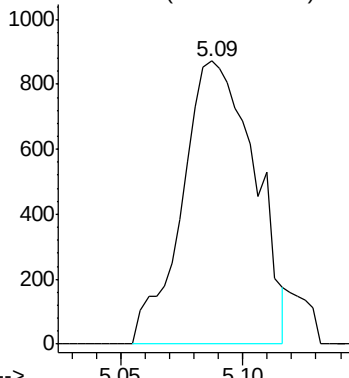
ClientSampleId :

BF5C4

Tgt Ion: 78 Resp: 1791



Abundance Ion 78.00 (77.70 to 78.70): VV0



#49

2-Hexanone

Concen: 9.167 ug/L

RT: 8.17 min Scan# 2201

Delta R.T. -0.02 min

Lab File: VV009992.D

Acq: 29 Mar 2019 04:00

Tgt Ion: 43 Resp: 8222

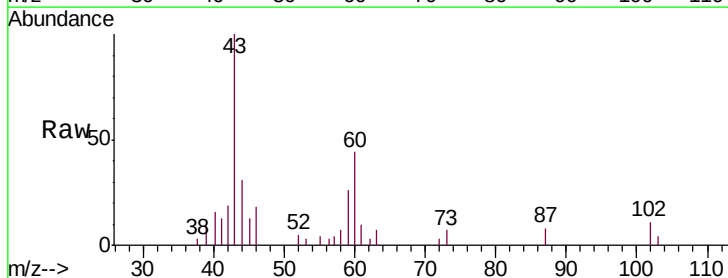
Ion Ratio Lower Upper

43 100

58 5.4 42.0 63.0#

57 0.8 12.9 19.3#

100 0.0 9.1 13.7#

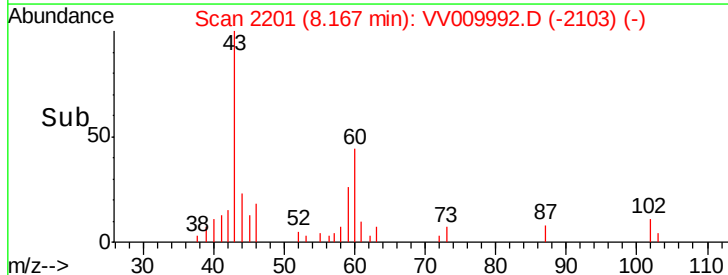
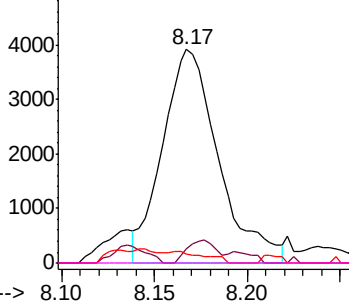


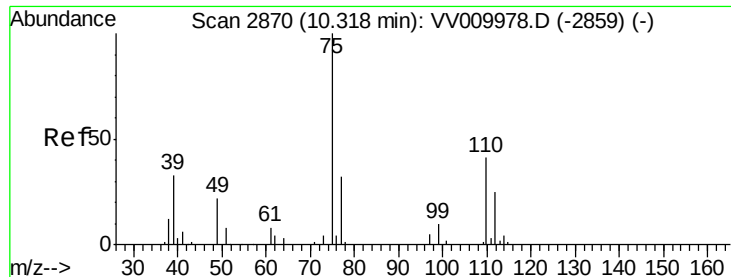
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#59

1,2,3-Trichloropropane

Concen: 3.715 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.98 min

Lab File: VV009992.D

Acq: 29 Mar 2019 04:00

Instrument :

MSVOA\_V

ClientSampleId :

BF5C4

Tgt Ion: 75 Resp: 5558

Ion Ratio Lower Upper

75 100

77 35.3 26.2 39.2

