

Data File : VV010918.D  
Acq On : 16 May 2019 02:25  
Operator : SY/MD  
Sample : K2788-13  
Misc : 5.00G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51A3

Quant Time: May 16 09:15:21 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM051319S.M  
Quant Title : VOC Analysis  
QLast Update : Thu May 16 08:09:42 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 135427   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 136978   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 52327    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 33482    | 19.41    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 77.64%   |
| 7) Chloroethane-d5             | 1.56   | 69    | 27149    | 24.14    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 96.56%   |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 49694    | 15.22    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 60.88%   |
| 20) 2-Butanone-d5              | 3.93   | 46    | 36658    | 67.53    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 135.06%# |
| 24) Chloroform-d               | 4.39   | 84    | 86997    | 22.25    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 89.00%   |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 54771    | 24.64    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 98.56%   |
| 29) Benzene-d6                 | 5.09   | 84    | 168307   | 22.20    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 88.80%   |
| 33) 1,2-Dichloropropane-d6     | 6.11   | 67    | 59976    | 24.79    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 99.16%   |
| 37) Toluene-d8                 | 7.36   | 98    | 145521   | 19.97    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 79.88%   |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 22281    | 21.12    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 84.48%   |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 27694    | 60.42    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 120.84%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 58792    | 26.21    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 104.84%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 50329    | 23.03    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 92.12%   |

#### Target Compounds

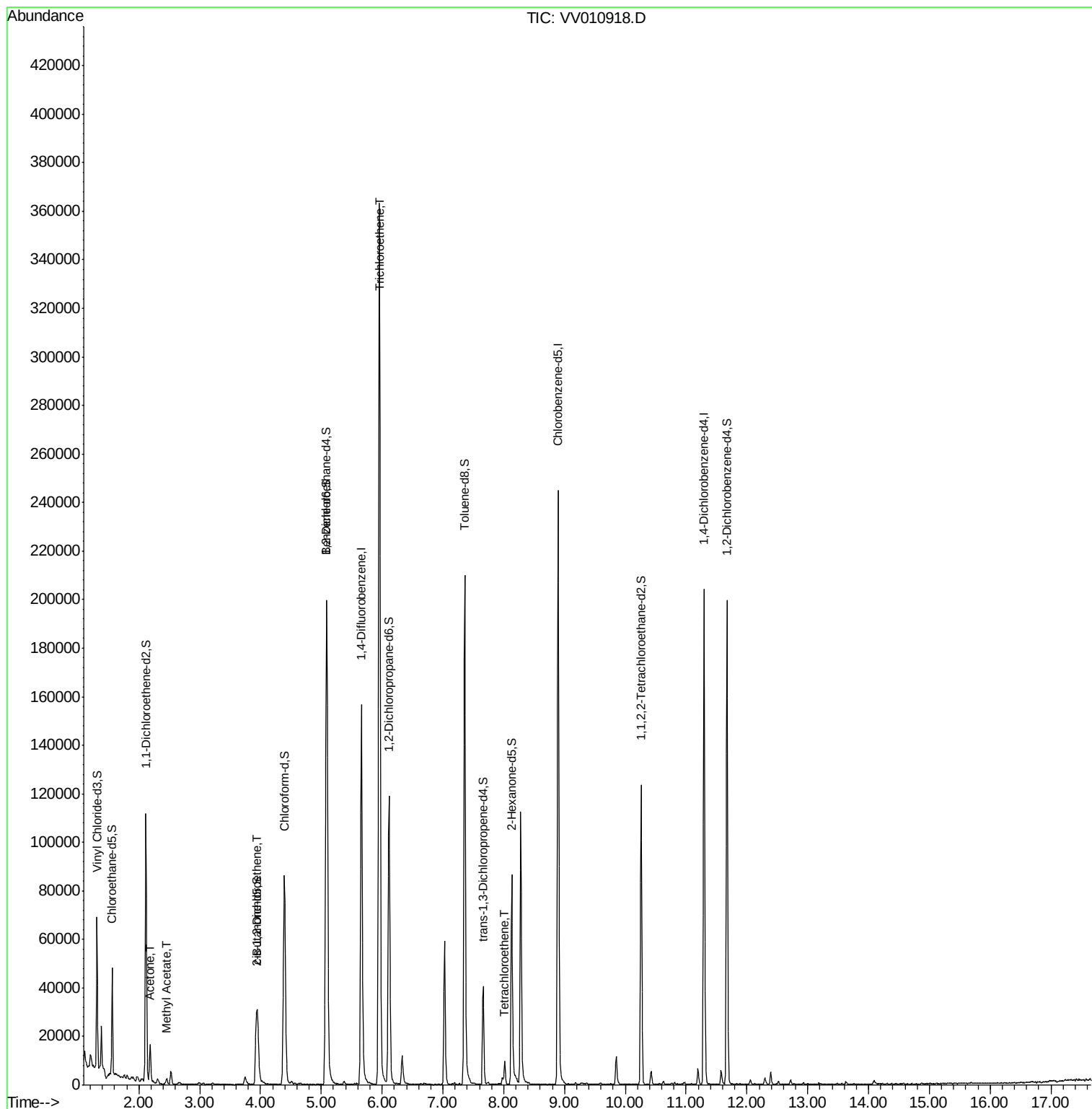
|                            |      |     |        |             | Qvalue |
|----------------------------|------|-----|--------|-------------|--------|
| 13) Acetone                | 2.18 | 43  | 13754  | 24.876 ug/L | 96     |
| 15) Methyl Acetate         | 2.45 | 43  | 2694   | 2.339 ug/L  | 94     |
| 22) cis-1,2-Dichloroethene | 3.96 | 96  | 10279  | 4.725 ug/L  | 92     |
| 35) Trichloroethene        | 5.95 | 95  | 126386 | 61.079 ug/L | 98     |
| 47) Tetrachloroethene      | 8.02 | 164 | 1962   | 1.283 ug/L  | 94     |

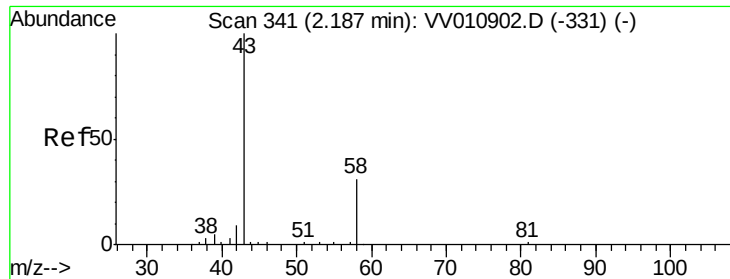
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 24.876 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV010918.D

Acq: 16 May 2019 02:25

Instrument :

MSVOA\_V

ClientSampled :

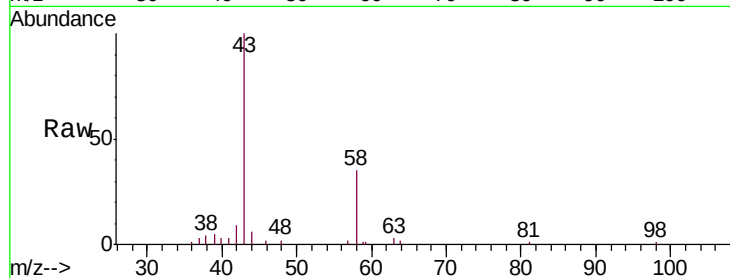
A51A3

Tgt Ion: 43 Resp: 13754

Ion Ratio Lower Upper

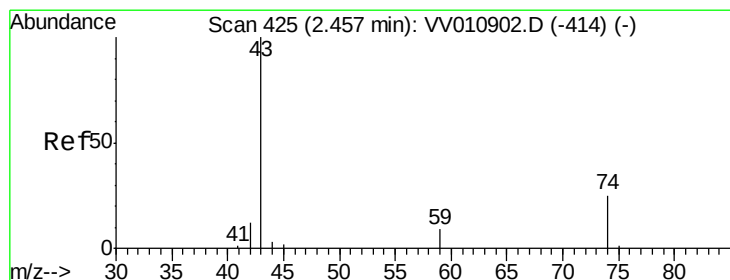
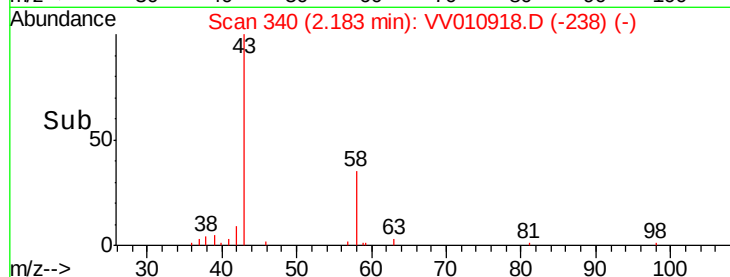
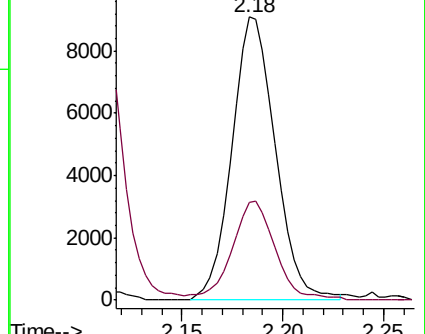
43 100

58 32.2 0.0 69.2



Abundance Ion 43.00 (42.70 to 43.70): VV010918.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV010918.D (-331) (-)



#15

Methyl Acetate

Concen: 2.339 ug/L

RT: 2.45 min Scan# 424

Delta R.T. -0.00 min

Lab File: VV010918.D

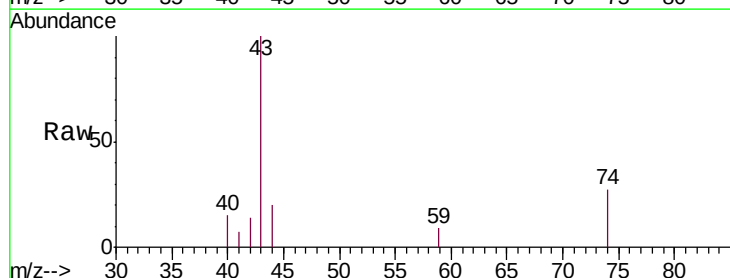
Acq: 16 May 2019 02:25

Tgt Ion: 43 Resp: 2694

Ion Ratio Lower Upper

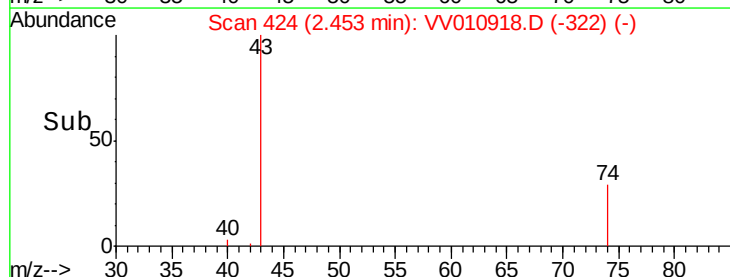
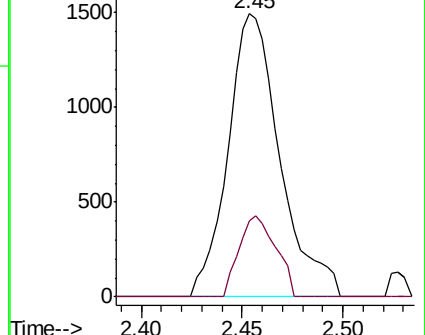
43 100

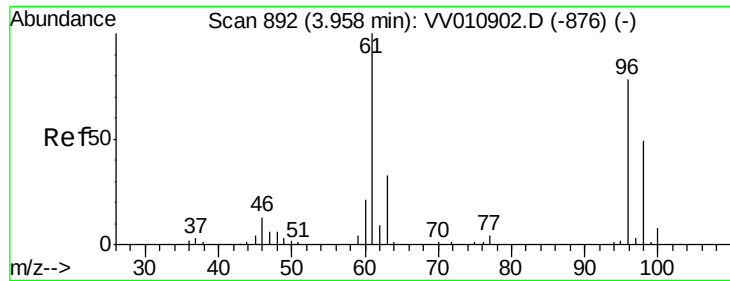
74 20.3 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VV010918.D (-414) (-)

Ion 74.00 (73.70 to 74.70): VV010918.D (-414) (-)



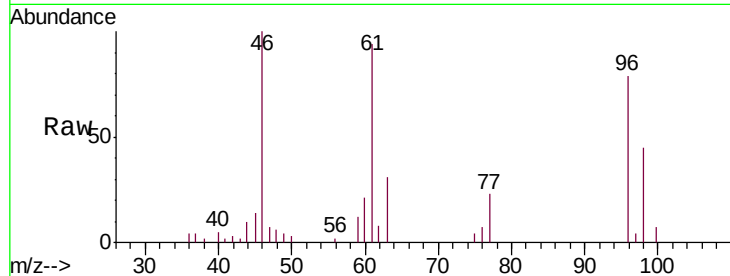


#22

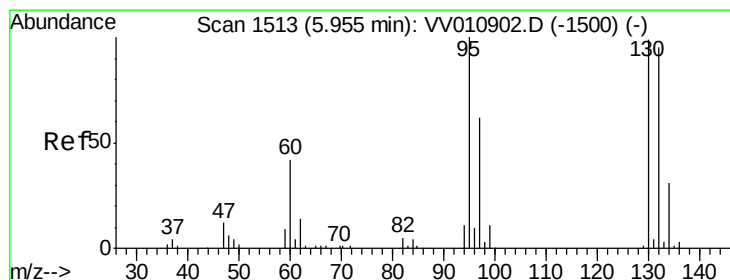
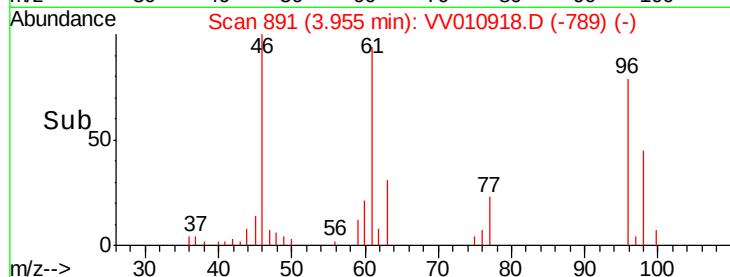
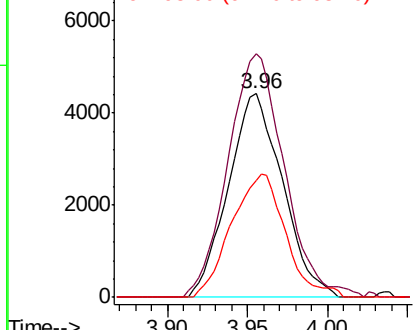
cis-1,2-Dichloroethene  
Concen: 4.725 ug/L  
RT: 3.96 min Scan# 891  
Delta R.T. -0.00 min  
Lab File: VV010918.D  
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Instrument :  
MSVOA\_V  
ClientSampleId :  
A51A3

Tgt Ion: 96 Resp: 10279  
Ion Ratio Lower Upper  
96 100  
61 119.6 90.2 167.6  
98 57.1 44.2 82.0



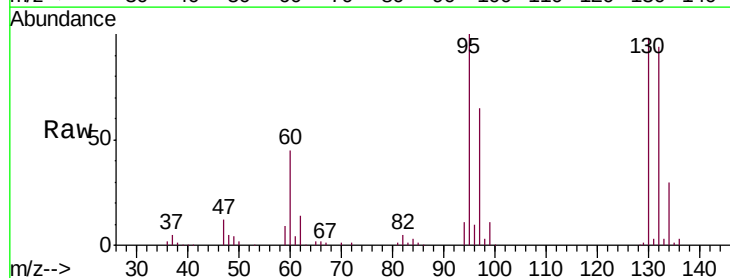
Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.00 (60.70 to 61.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0



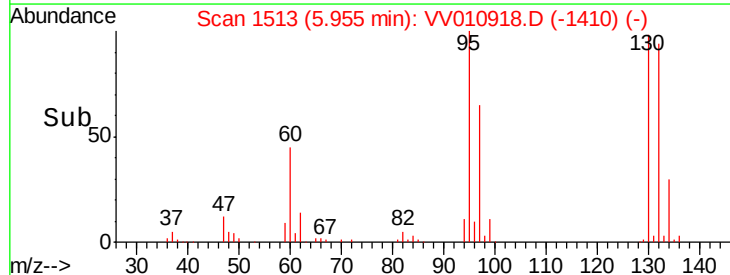
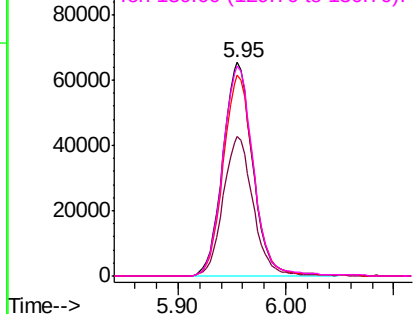
#35

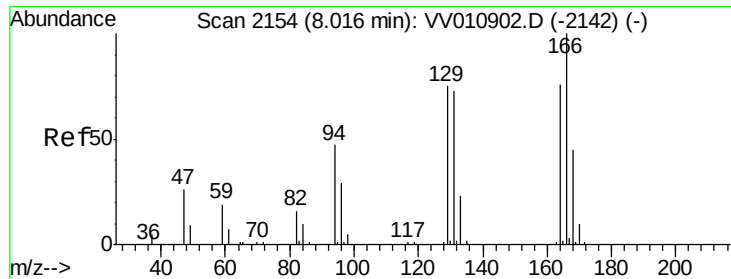
Trichloroethene  
Concen: 61.079 ug/L  
RT: 5.95 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VV010918.D  
Acq: 16 May 2019 02:25

Tgt Ion: 95 Resp: 126386  
Ion Ratio Lower Upper  
95 100  
97 65.0 46.0 85.4  
132 94.6 67.4 125.2  
130 99.5 68.5 127.1



Abundance Ion 95.00 (94.70 to 95.70): VV0  
Ion 97.00 (96.70 to 97.70): VV0  
Ion 132.00 (131.70 to 132.70): VV0  
Ion 130.00 (129.70 to 130.70): VV0





#47

Tetrachloroethene

Concen: 1.283 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV010918.D

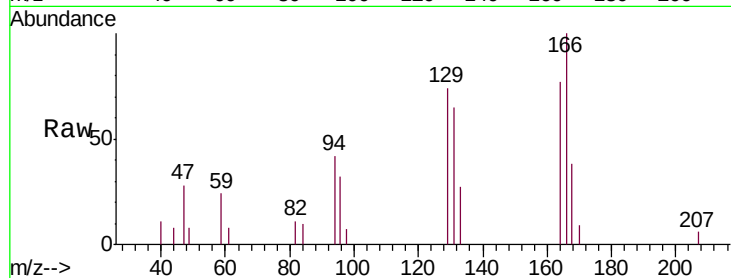
Acq: 16 May 2019 02:25

Instrument :

MSVOA\_V

ClientSampleId :

A51A3



Tgt Ion:164 Resp: 1962

Ion Ratio Lower Upper

164 100

129 96.6 67.6 125.6

131 85.1 65.1 120.9

166 130.5 84.8 157.6

