

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072619\  
 Data File : VU033450.D  
 Acq On : 26 Jul 2019 14:01  
 Operator : JC/SP  
 Sample : K3976-15  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0CA3

Quant Time: Jul 27 04:11:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jul 27 01:57:42 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 257879   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 262697   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 112695   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 99512    | 50.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 101.96% |
| 7) Chloroethane-d5             | 1.67    | 69    | 90400    | 54.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 108.42% |
| 11) 1,1-Dichloroethene-d2      | 2.25    | 63    | 144094   | 40.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 81.38%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 136870   | 110.65   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 110.65% |
| 24) Chloroform-d               | 4.62    | 84    | 166093   | 50.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.54% |
| 26) 1,2-Dichloroethane-d4      | 5.28    | 65    | 116250   | 55.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 110.80% |
| 32) Benzene-d6                 | 5.32    | 84    | 344081   | 53.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 106.78% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 111637   | 54.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 108.16% |
| 41) Toluene-d8                 | 7.55    | 98    | 307098   | 50.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.06% |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 49148    | 48.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 97.10%  |
| 47) 2-Hexanone-d5              | 8.30    | 63    | 94640    | 101.69   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 101.69% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 169077   | 54.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 108.22% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 117452   | 58.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 116.88% |

## Target Compounds

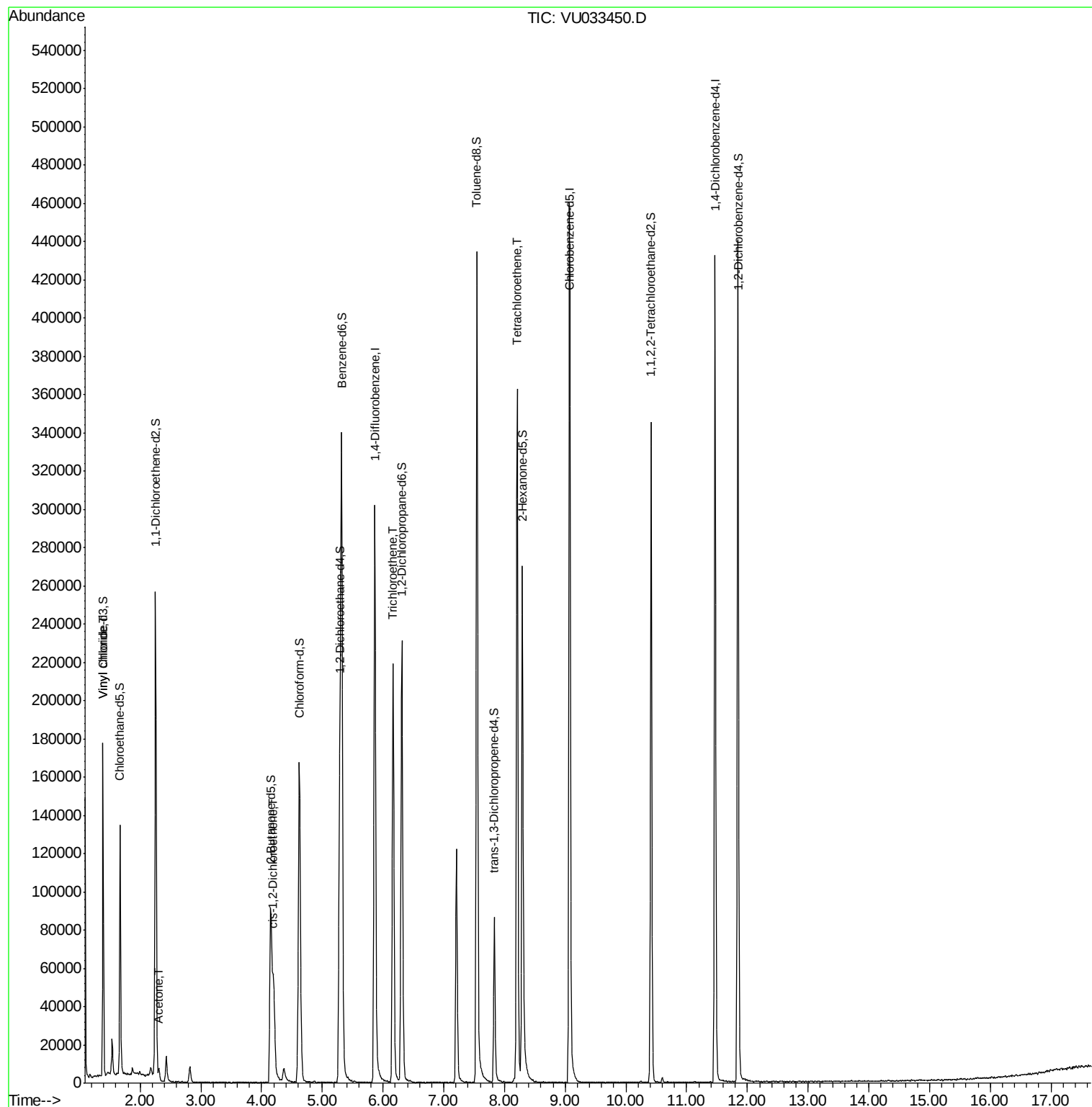
|                            |      |     |       |             | Ovalue |
|----------------------------|------|-----|-------|-------------|--------|
| 5) Vinyl chloride          | 1.40 | 62  | 9111  | 3.131 ug/L  | # 76   |
| 13) Acetone                | 2.31 | 43  | 5364  | 3.471 ug/L  | 97     |
| 20) cis-1,2-Dichloroethene | 4.20 | 96  | 24482 | 12.201 ug/L | 98     |
| 34) Trichloroethene        | 6.16 | 95  | 76563 | 38.214 ug/L | 98     |
| 46) Tetrachloroethene      | 8.21 | 164 | 81320 | 52.430 ug/L | 99     |

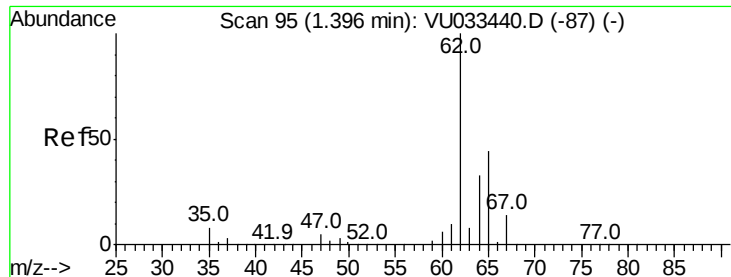
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jul 27 01:57:42 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.131 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033450.D

Acq: 26 Jul 2019 14:01

Instrument :

MSVOA\_U

ClientSampleId :

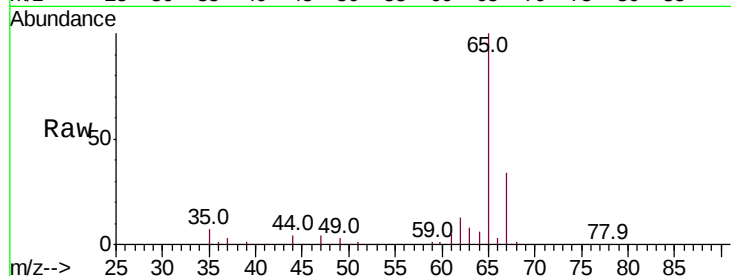
C0CA3

Tot Ion: 62 Resp: 9111

Ion Ratio Lower Upper

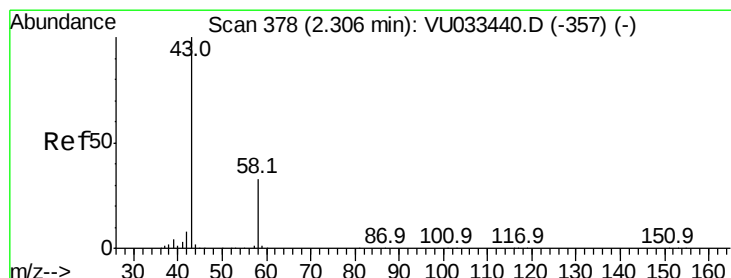
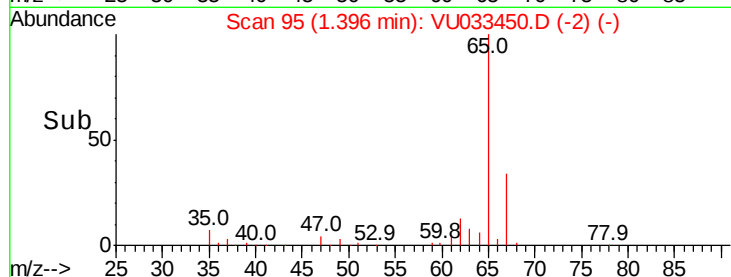
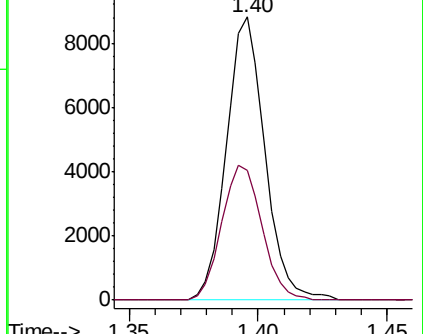
62 100

64 46.1 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VU033440.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033440.D (-87) (-)



#13

Acetone

Concen: 3.471 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU033450.D

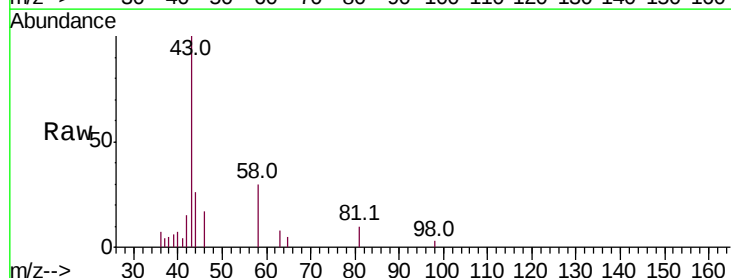
Acq: 26 Jul 2019 14:01

Tgt Ion: 43 Resp: 5364

Ion Ratio Lower Upper

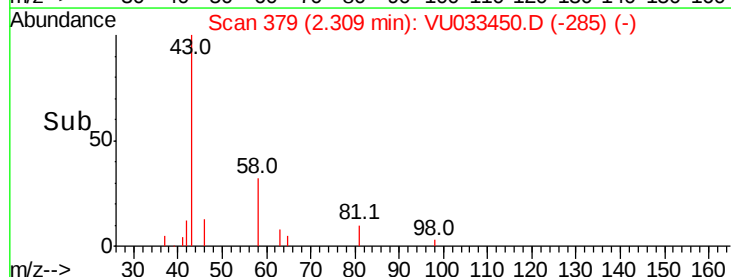
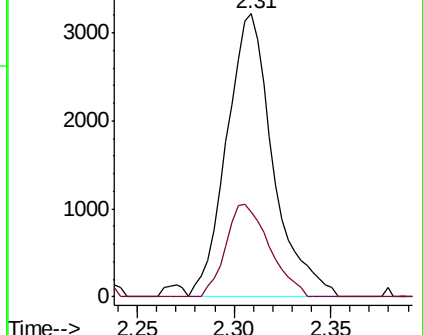
43 100

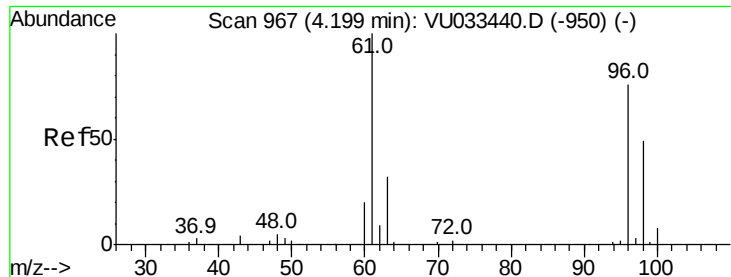
58 30.8 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033440.D (-357) (-)

Ion 58.00 (57.70 to 58.70): VU033440.D (-357) (-)





#20

cis-1,2-Dichloroethene

Concen: 12.201 ug/L

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU033450.D

Acq: 26 Jul 2019 14:01

Instrument :

MSVOA\_U

ClientSampleId :

C0CA3

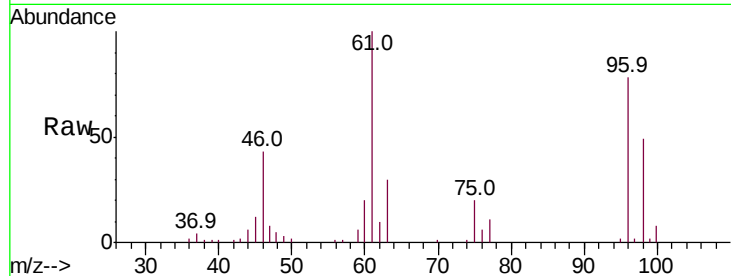
Tot Ion: 96 Resp: 24482

Ion Ratio Lower Upper

96 100

61 127.7 91.1 169.1

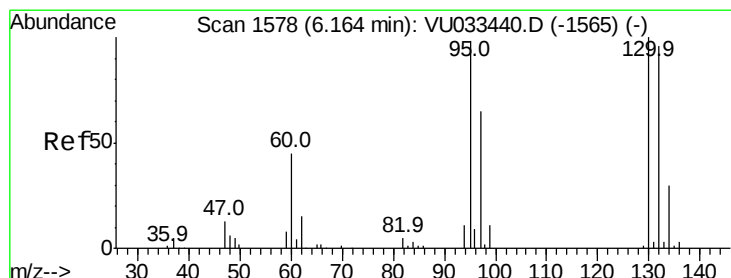
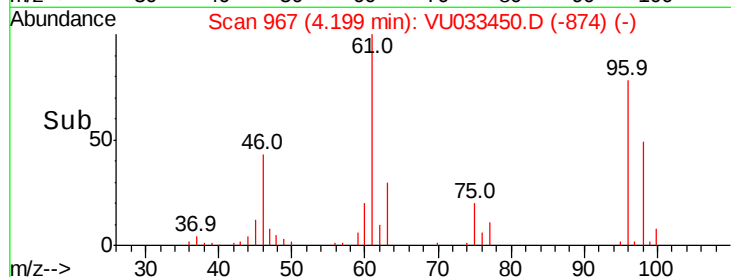
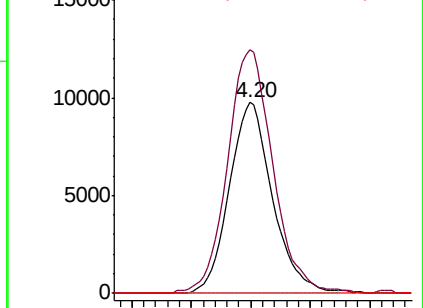
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU033440.D (-950) (-)

Ion 61.00 (60.70 to 61.70): VU033440.D (-950) (-)

Ion 68.00 (67.70 to 68.70): VU033440.D (-950) (-)



#34

Trichloroethene

Concen: 38.214 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033450.D

Acq: 26 Jul 2019 14:01

Tgt Ion: 95 Resp: 76563

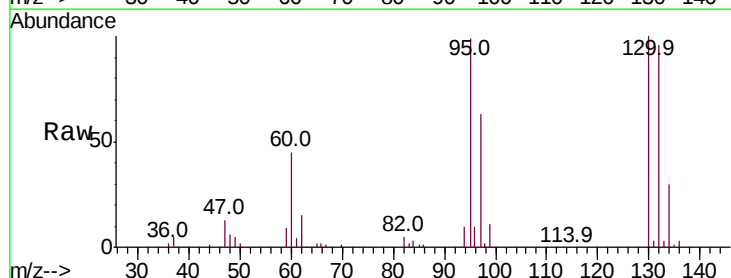
Ion Ratio Lower Upper

95 100

97 63.8 43.8 81.4

132 96.4 65.5 121.6

130 100.7 69.7 129.5

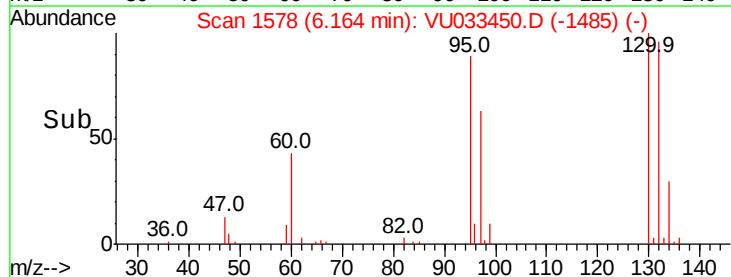
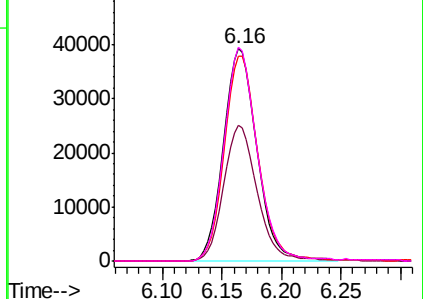


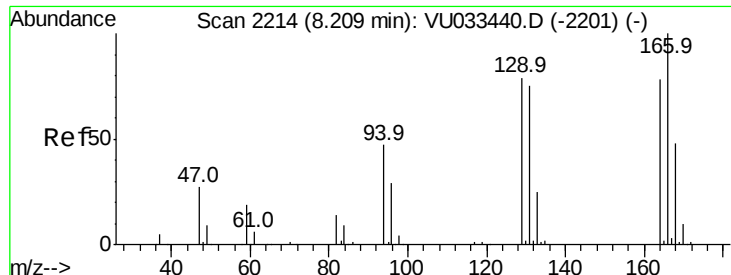
Abundance Ion 95.00 (94.70 to 95.70): VU033440.D (-1565) (-)

Ion 97.00 (96.70 to 97.70): VU033440.D (-1565) (-)

Ion 132.00 (131.70 to 132.70): VU033440.D (-1565) (-)

Ion 130.00 (129.70 to 130.70): VU033440.D (-1565) (-)





#46

Tetrachloroethene

Concen: 52.430 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033450.D

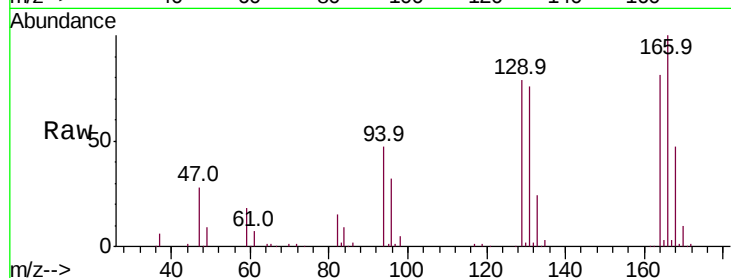
Acq: 26 Jul 2019 14:01

Instrument :

MSVOA\_U

ClientSampleId :

C0CA3



Tot Ion:164 Resp: 81320

Ion Ratio Lower Upper

164 100

129 98.2 69.6 129.2

131 94.3 65.7 122.1

166 124.0 88.5 164.4

Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

