

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV040419\  
 Data File : VV010119.D  
 Acq On : 04 Apr 2019 19:35  
 Operator : SY/MD  
 Sample : K2215-10  
 Misc : 5.08G/10mL/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF2N9

Quant Time: Apr 05 01:31:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 05 01:26:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 242142   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 229928   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 104658   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 59268    | 18.28    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 73.12% |
| 7) Chloroethane-d5             | 1.58   | 69    | 56969    | 14.15    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 56.60% |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 126596   | 15.48    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 61.92% |
| 20) 2-Butanone-d5              | 3.93   | 46    | 31449    | 34.09    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 68.18% |
| 24) Chloroform-d               | 4.40   | 84    | 121773   | 19.96    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 79.84% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 73828    | 21.63    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 86.52% |
| 29) Benzene-d6                 | 5.10   | 84    | 279021   | 23.40    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 93.60% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 82007    | 23.30    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 93.20% |
| 37) Toluene-d8                 | 7.36   | 98    | 256439   | 22.32    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 89.28% |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 27633    | 18.37    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 73.48% |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 23466    | 33.25    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 66.50% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 66134    | 19.06    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 76.24% |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 92290    | 22.64    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 90.56% |

## Target Compounds

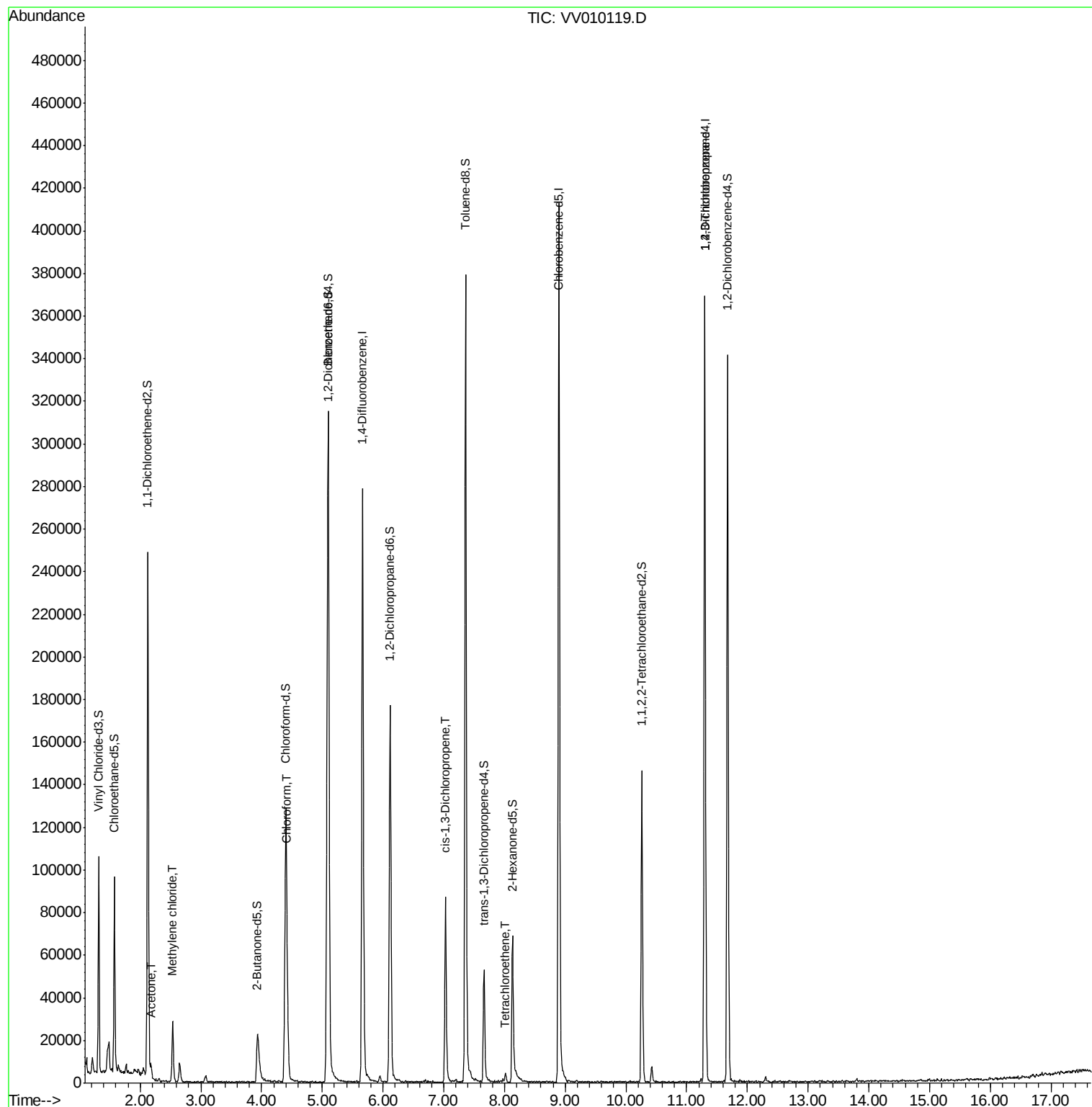
|                             |       |     |       |              | Qvalue |
|-----------------------------|-------|-----|-------|--------------|--------|
| 13) Acetone                 | 2.19  | 43  | 2310  | 2.533 ug/L   | 88     |
| 16) Methylene chloride      | 2.54  | 84  | 11887 | 2.794 ug/L   | 99     |
| 25) Chloroform              | 4.42  | 83  | 15059 | 2.735 ug/L   | 94     |
| 42) cis-1,3-Dichloropropene | 7.03  | 75  | 2913  | 0.708 ug/L # | 69     |
| 47) Tetrachloroethene       | 8.02  | 164 | 899   | 0.332 ug/L # | 53     |
| 59) 1,2,3-Trichloropropane  | 11.30 | 75  | 13964 | 6.019 ug/L   | 93     |

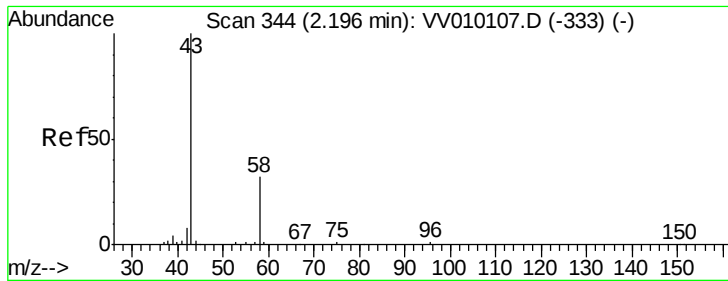
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Apr 05 01:26:41 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 2.533 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.01 min

Lab File: VV010119.D

Acq: 04 Apr 2019 19:35

Instrument :

MSVOA\_V

ClientSampleId :

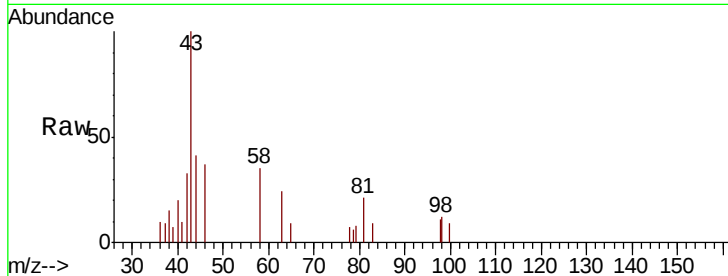
BF2N9

Tgt Ion: 43 Resp: 2310

Ion Ratio Lower Upper

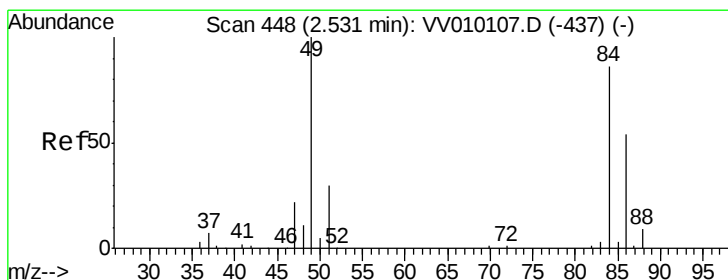
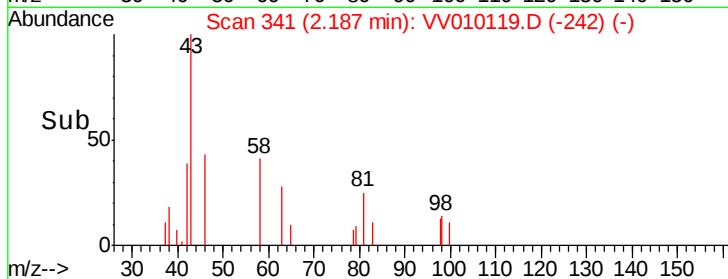
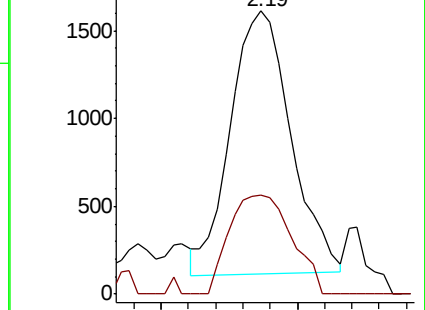
43 100

58 38.9 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV010107.D (-333) (-)

Ion 58.00 (57.70 to 58.70): VV010107.D (-333) (-)



#16

Methylene chloride

Concen: 2.794 ug/L

RT: 2.54 min Scan# 450

Delta R.T. -0.00 min

Lab File: VV010119.D

Acq: 04 Apr 2019 19:35

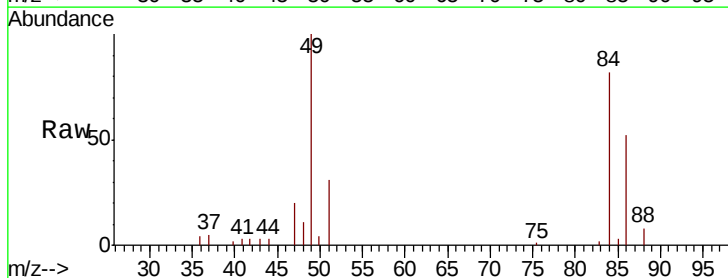
Tgt Ion: 84 Resp: 11887

Ion Ratio Lower Upper

84 100

49 121.4 84.3 156.5

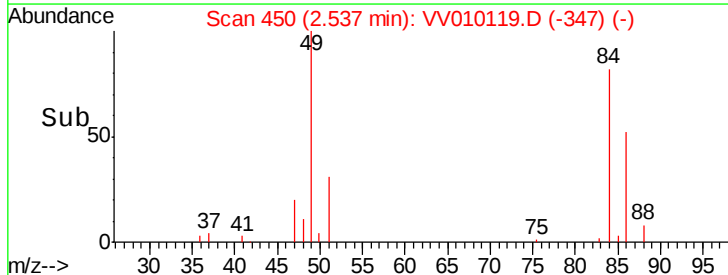
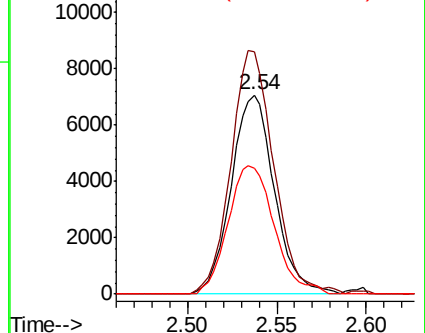
86 63.4 45.4 84.2

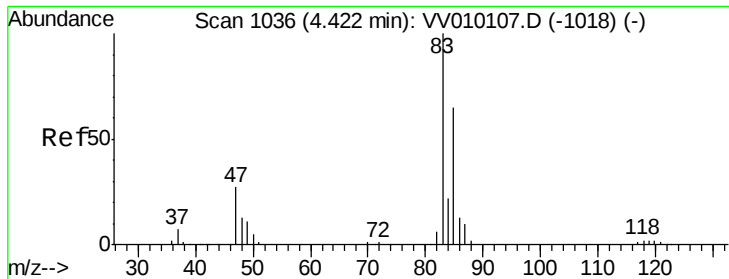


Abundance Ion 84.00 (83.70 to 84.70): VV010107.D (-437) (-)

Ion 49.00 (48.70 to 49.70): VV010107.D (-437) (-)

Ion 86.00 (85.70 to 86.70): VV010107.D (-437) (-)

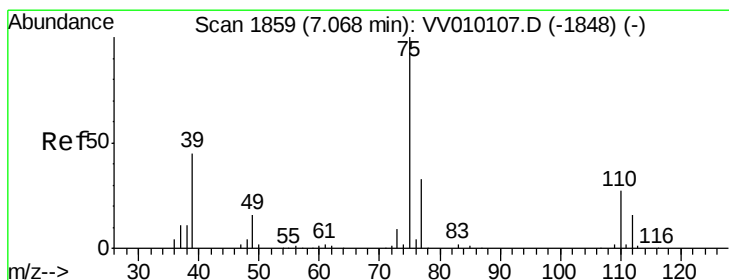
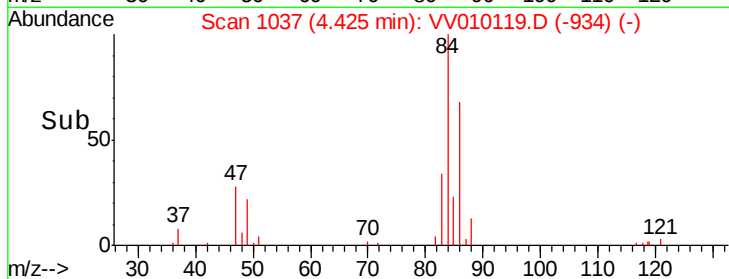
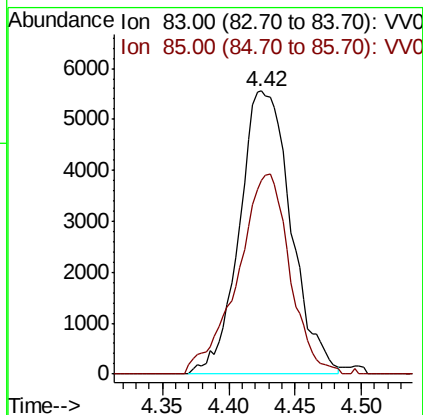
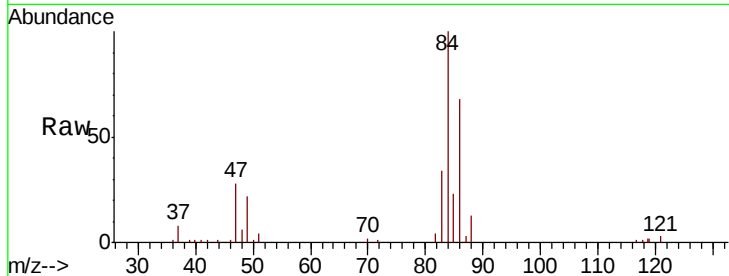




#25  
Chloroform  
Concen: 2.735 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. -0.00 min  
Lab File: VV010119.D  
Acq: 04 Apr 2019 19:35

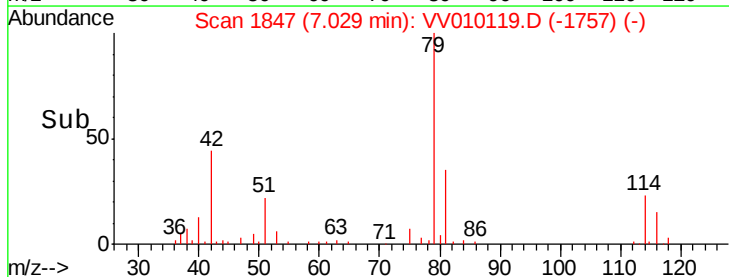
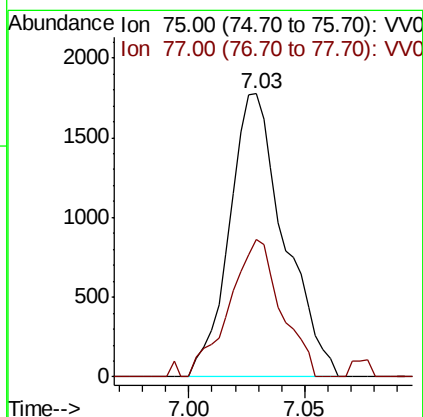
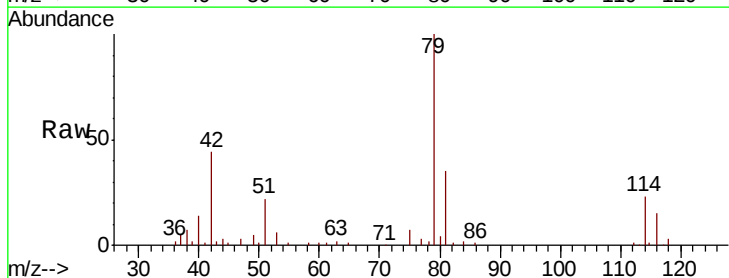
Instrument :  
MSVOA\_V  
ClientSampleId :  
BF2N9

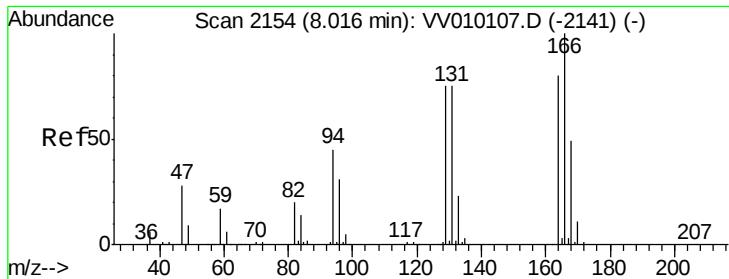
Tgt Ion: 83 Resp: 15059  
Ion Ratio Lower Upper  
83 100  
85 71.2 46.4 86.2



#42  
cis-1,3-Dichloropropene  
Concen: 0.708 ug/L  
RT: 7.03 min Scan# 1847  
Delta R.T. -0.04 min  
Lab File: VV010119.D  
Acq: 04 Apr 2019 19:35

Tgt Ion: 75 Resp: 2913  
Ion Ratio Lower Upper  
75 100  
77 48.6 22.1 41.1#





#47

Tetrachloroethene

Concen: 0.332 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.00 min

Lab File: VV010119.D

Acq: 04 Apr 2019 19:35

Instrument :

MSVOA\_V

ClientSampled :

BF2N9

Tgt Ion:164 Resp: 899

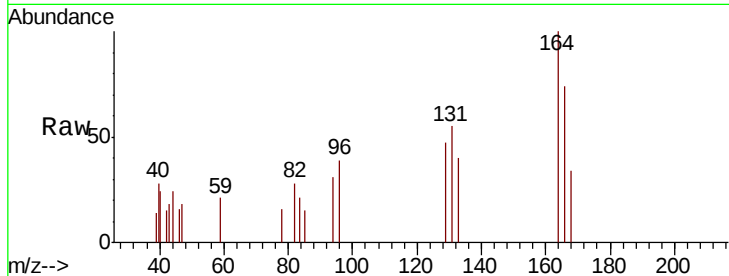
Ion Ratio Lower Upper

164 100

129 47.1 67.8 125.8#

131 55.1 65.2 121.0#

166 74.0 93.8 174.2#



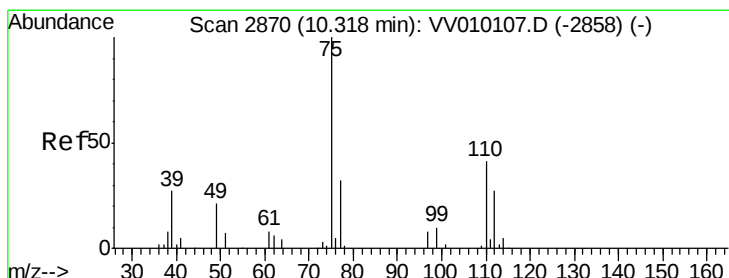
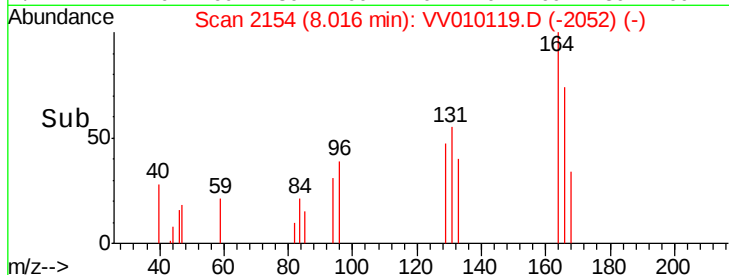
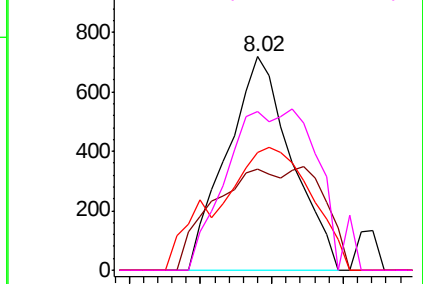
Abundance

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



#59

1,2,3-Trichloropropane

Concen: 6.019 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.98 min

Lab File: VV010119.D

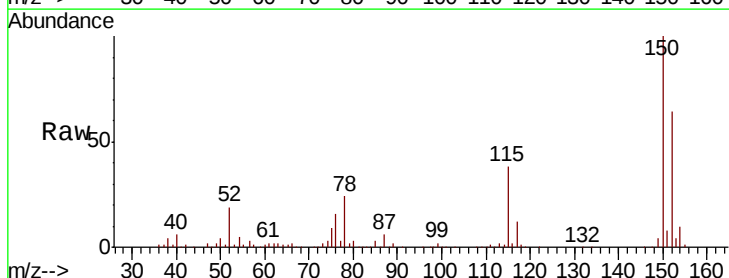
Acq: 04 Apr 2019 19:35

Tgt Ion: 75 Resp: 13964

Ion Ratio Lower Upper

75 100

77 36.1 25.8 38.8



Abundance

Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

