

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV122018\  
 Data File : VV009103.D  
 Acq On : 21 Dec 2018 00:39  
 Operator : SY/MD  
 Sample : J6468-14  
 Misc : 6.38 G/10ML/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0JH0

Manual Integrations  
 APPROVED

MMDadoda  
 12/26/2018 10:04:42 AM

Quant Time: Dec 21 02:07:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM120618S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 21 01:30:11 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 226776   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 193150   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 72356    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 39441    | 16.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 67.24%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 43460    | 25.07    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 100.28% |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 80556    | 13.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 54.92%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 30488    | 35.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 71.36%  |
| 24) Chloroform-d               | 4.40   | 84    | 126225   | 23.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 92.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 76487    | 25.71    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 102.84% |
| 29) Benzene-d6                 | 5.10   | 84    | 244674   | 22.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 90.72%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 78470    | 25.98    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 103.92% |
| 37) Toluene-d8                 | 7.36   | 98    | 218165   | 21.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 87.40%  |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 31104    | 23.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 93.76%  |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 20152    | 36.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 72.84%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 55408    | 21.87    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 87.48%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 63158    | 23.26    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 93.04%  |

## Target Compounds

| Target Compounds           | R.T. | QIon | Response | Conc    | Units | Qvalue |
|----------------------------|------|------|----------|---------|-------|--------|
| 13) Acetone                | 2.20 | 43   | 3125m    | 2.482   | ug/L  |        |
| 16) Methylene chloride     | 2.54 | 84   | 6710     | 1.757   | ug/L  | 94     |
| 22) cis-1,2-Dichloroethene | 3.96 | 96   | 23493    | 7.133   | ug/L  | 94     |
| 35) Trichloroethene        | 5.96 | 95   | 483268   | 138.520 | ug/L  | 100    |
| 47) Tetrachloroethene      | 8.02 | 164  | 98239    | 34.625  | ug/L  | 98     |

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

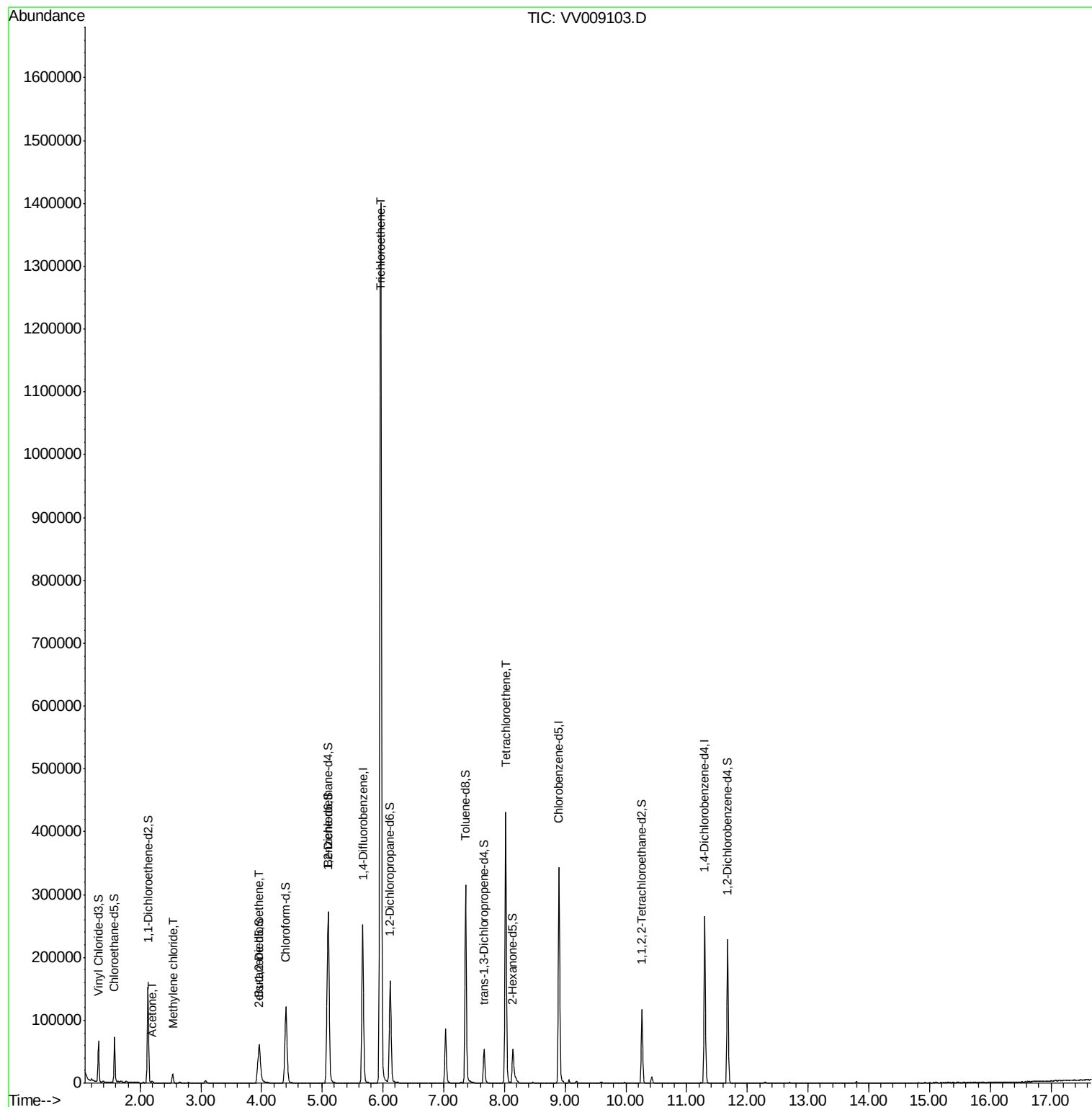
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV122018\  
Data File : VV009103.D  
Acq On : 21 Dec 2018 00:39  
Operator : SY/MD  
Sample : J6468-14  
Misc : 6.38 G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

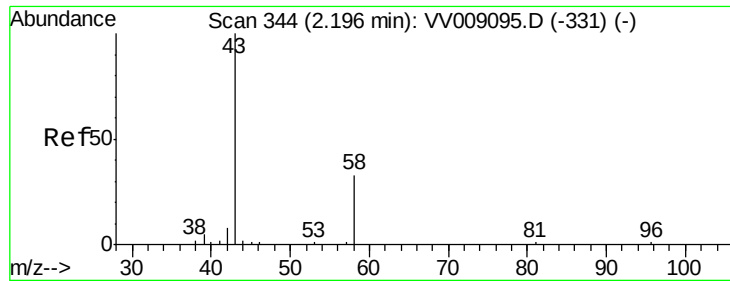
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0JH0

Manual Integrations  
APPROVED

MMDadoda  
12/26/2018 10:04:42 AM

Quant Time: Dec 21 02:07:22 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM120618S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 21 01:30:11 2018  
Response via : Initial Calibration





#13

Acetone

Concen: 2.482 ug/L m

RT: 2.20 min Scan# 345

Delta R.T. 0.00 min

Lab File: VV009103.D

Acq: 21 Dec 2018 00:39

Instrument :

MSVOA\_V

ClientSampleId :

C0JH0

Tgt Ion: 43 Resp: 3125

Ion Ratio Lower Upper

43 100

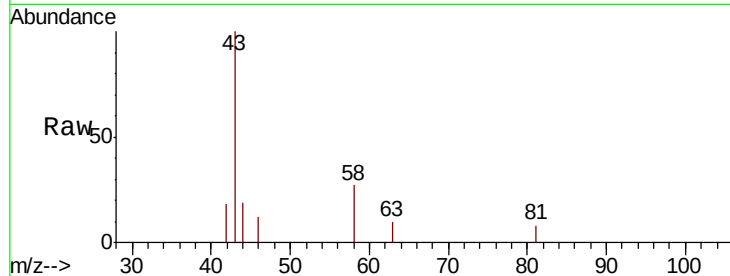
58 26.8 0.0 65.4

Manual Integrations

APPROVED

MMDadoda

12/26/2018 10:04:42 AM



Abundance Ion 43.00 (42.70 to 43.70): VV009103.D (-345) (-)

Ion 58.00 (57.70 to 58.70): VV009103.D (-345) (-)

2.20

1500

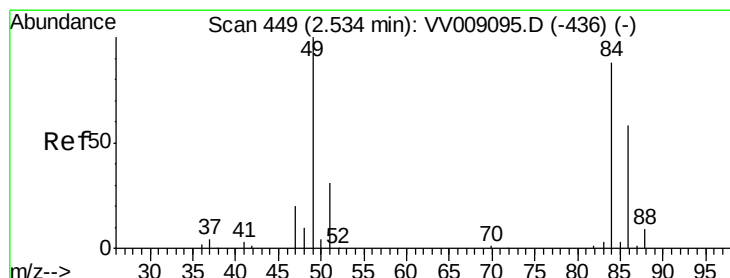
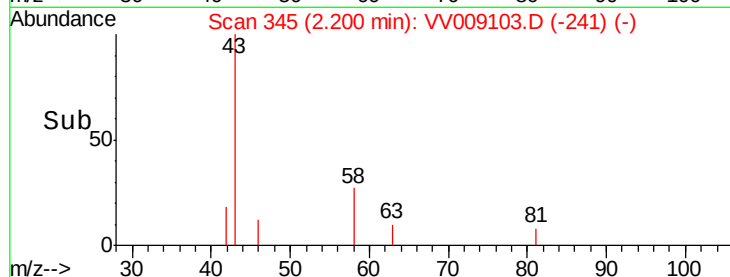
1000

500

0

2.15 2.20 2.25

Time-->



#16

Methylene chloride

Concen: 1.757 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV009103.D

Acq: 21 Dec 2018 00:39

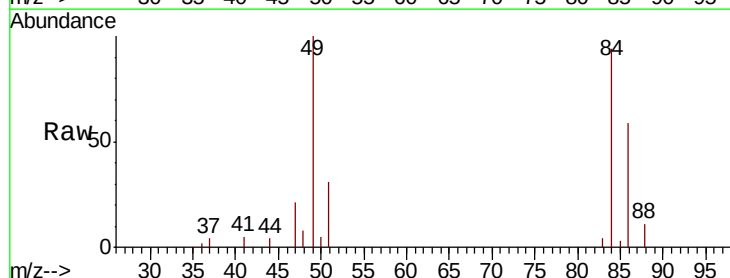
Tgt Ion: 84 Resp: 6710

Ion Ratio Lower Upper

84 100

49 106.1 80.5 149.5

86 62.5 45.5 84.5



Abundance Ion 84.00 (83.70 to 84.70): VV009103.D (-346) (-)

Ion 49.00 (48.70 to 49.70): VV009103.D (-346) (-)

Ion 86.00 (85.70 to 86.70): VV009103.D (-346) (-)

2.54

6000

5000

4000

3000

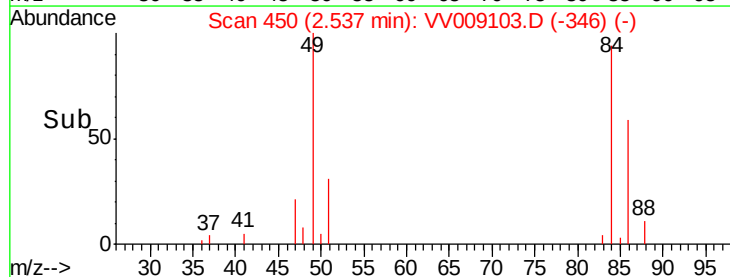
2000

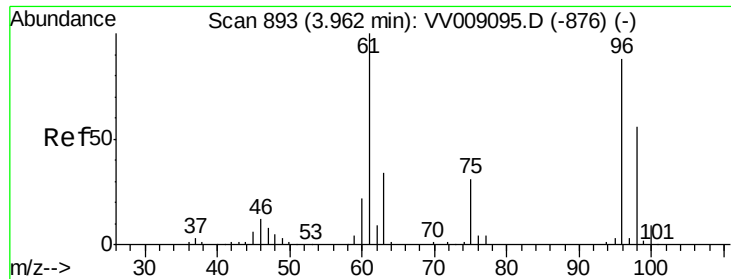
1000

0

2.50 2.55

Time-->





#22

cis-1,2-Dichloroethene

Concen: 7.133 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV009103.D

Acq: 21 Dec 2018 00:39

Instrument :

MSVOA\_V

ClientSampleId :

C0JH0

Tgt Ion: 96 Resp: 23493

Ion Ratio Lower Upper

96 100

61 132.4 86.2 160.0

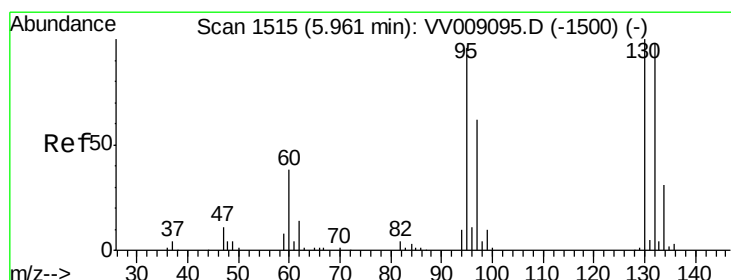
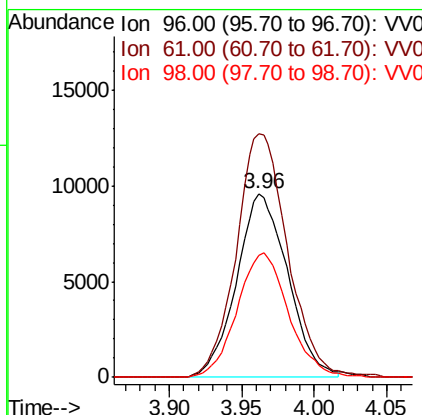
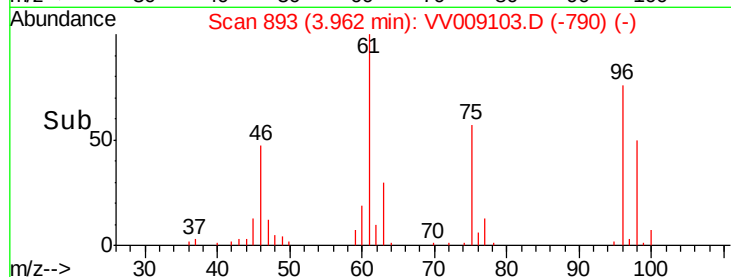
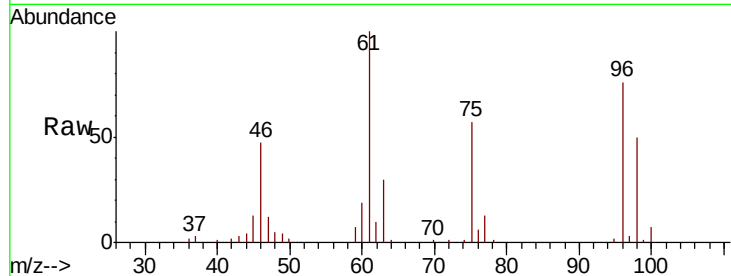
98 66.5 45.6 84.6

Manual Integrations

APPROVED

MMDadoda

12/26/2018 10:04:42 AM



#35

Trichloroethene

Concen: 138.520 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV009103.D

Acq: 21 Dec 2018 00:39

Tgt Ion: 95 Resp: 483268

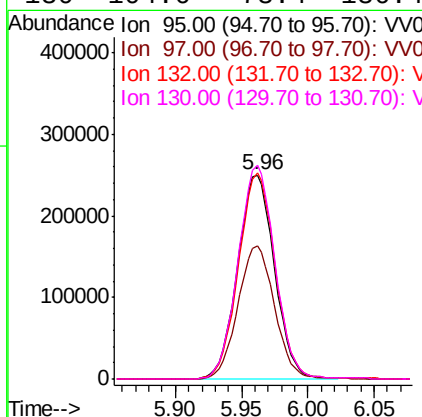
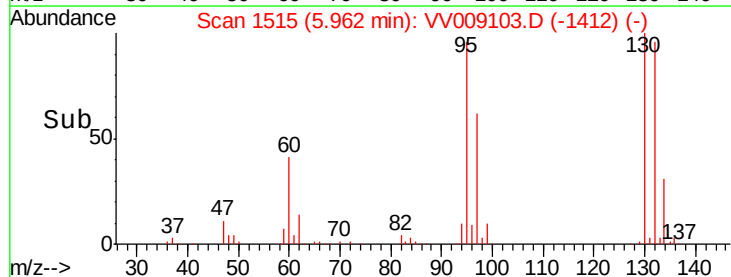
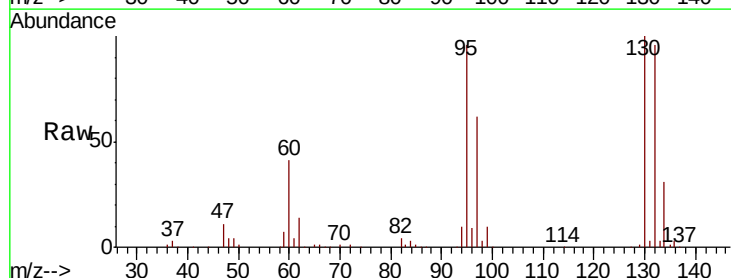
Ion Ratio Lower Upper

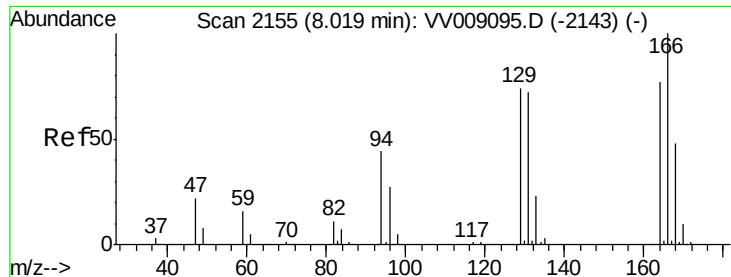
95 100

97 65.2 45.3 84.1

132 100.6 70.0 130.0

130 104.6 73.4 136.4





#47

Tetrachloroethene

Concen: 34.625 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV009103.D

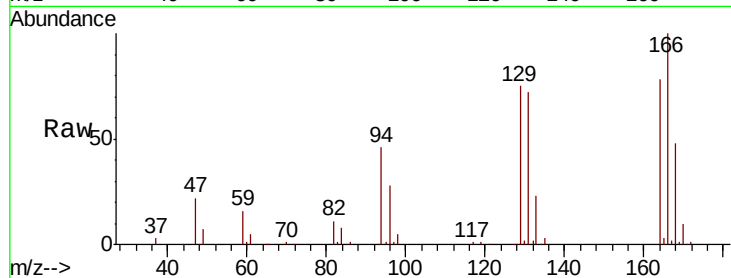
Acq: 21 Dec 2018 00:39

Instrument :

MSVOA\_V

ClientSampleId :

C0JH0



Tgt Ion:164 Resp: 98239

Ion Ratio Lower Upper

164 100

129 96.6 64.6 120.0

131 91.8 64.5 119.7

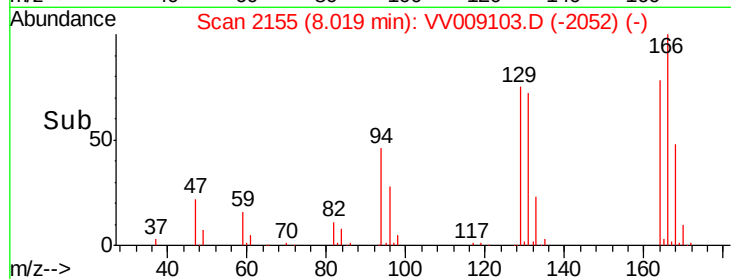
166 128.1 88.7 164.7

Manual Integrations

APPROVED

MMDadoda

12/26/2018 10:04:42 AM



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

