

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121220\  
 Data File : VV019591.D  
 Acq On : 13 Dec 2020 06:04  
 Operator : SY/MD  
 Sample : L4928-05 200X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG4M2

Quant Time: Dec 13 07:42:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sun Dec 13 07:40:15 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.62  | 114  | 573049   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.86  | 117  | 510475   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.25 | 152  | 225733   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 150970   | 36.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 73.48%  |
| 7) Chloroethane-d5             | 1.57    | 69    | 141564   | 43.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 87.36%  |
| 11) 1,1-Dichloroethene-d2      | 2.11    | 63    | 233080   | 30.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 61.12%  |
| 21) 2-Butanone-d5              | 3.90    | 46    | 246374   | 110.31   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 110.31% |
| 24) Chloroform-d               | 4.35    | 84    | 343208   | 46.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.68%  |
| 26) 1,2-Dichloroethane-d4      | 5.04    | 65    | 245856   | 50.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.60% |
| 32) Benzene-d6                 | 5.05    | 84    | 648917   | 47.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.32%  |
| 36) 1,2-Dichloropropane-d6     | 6.07    | 67    | 220723   | 51.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 103.50% |
| 41) Toluene-d8                 | 7.32    | 98    | 542650   | 44.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.54%  |
| 43) trans-1,3-Dichloropropene- | 7.62    | 79    | 101023   | 41.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 83.28%  |
| 47) 2-Hexanone-d5              | 8.09    | 63    | 177031   | 105.76   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 105.76% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.22   | 84    | 297263   | 51.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 103.06% |
| 64) 1,2-Dichlorobenzene-d4     | 11.63   | 152   | 204354   | 48.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.86%  |

## Target Compounds

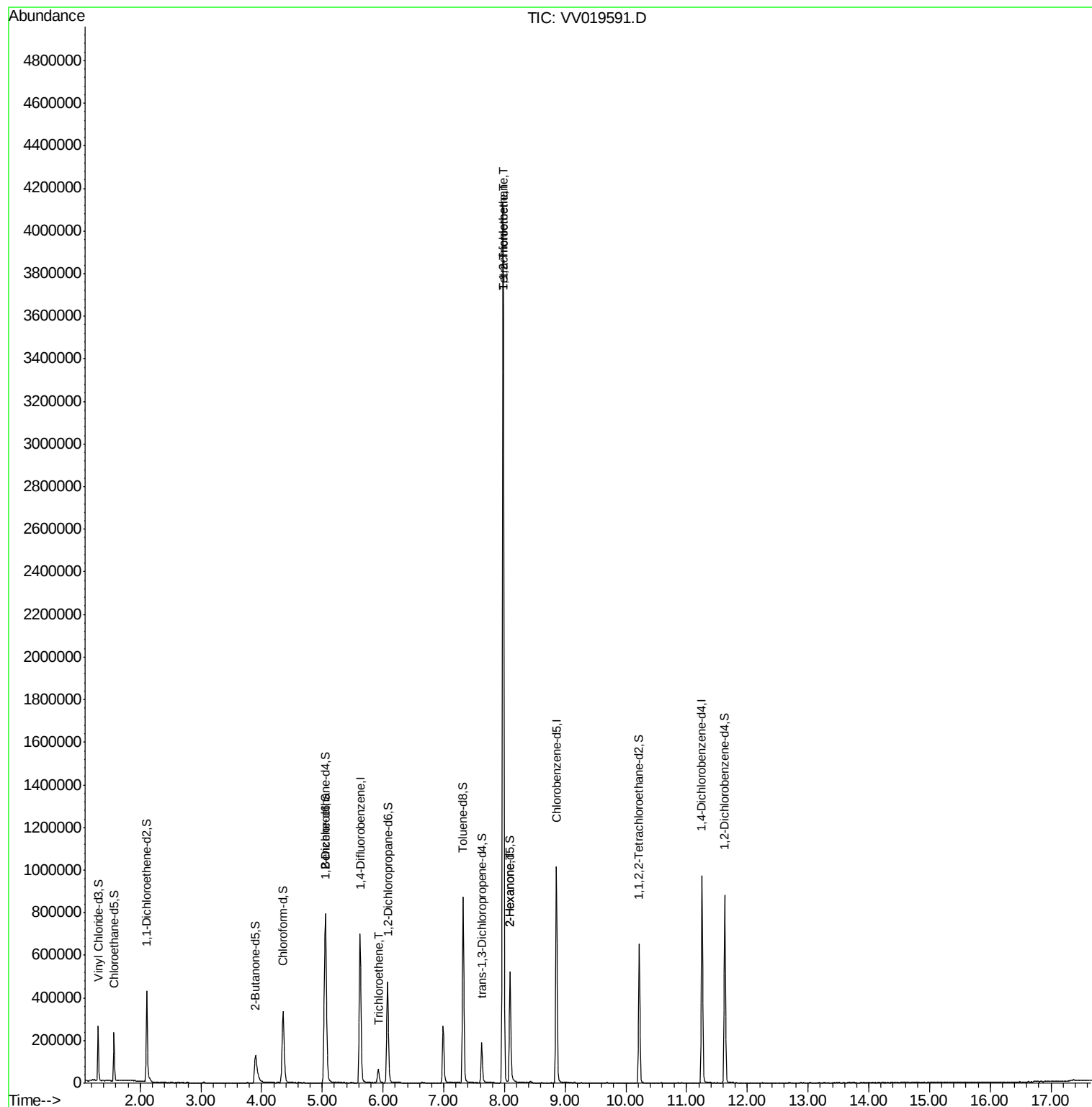
|                           |      |     |        |              | Ovalue |
|---------------------------|------|-----|--------|--------------|--------|
| 34) Trichloroethene       | 5.92 | 95  | 21205  | 5.381 ug/L   | 95     |
| 45) 1,1,2-Trichloroethane | 7.98 | 97  | 8263   | 2.233 ug/L # | 1      |
| 46) Tetrachloroethene     | 7.98 | 164 | 828014 | 303.634 ug/L | 96     |
| 48) 2-Hexanone            | 8.09 | 43  | 21800  | 5.111 ug/L # | 67     |

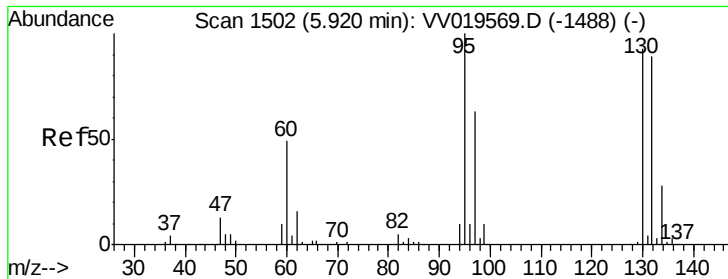
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121220\  
Data File : VV019591.D  
Acq On : 13 Dec 2020 06:04  
Operator : SY/MD  
Sample : L4928-05 200X  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG4M2

Quant Time: Dec 13 07:42:59 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sun Dec 13 07:40:15 2020  
Response via : Initial Calibration





#34

Trichloroethene

Concen: 5.381 ug/L

RT: 5.92 min Scan# 1503

Delta R.T. 0.00 min

Lab File: VV019591.D

Acq: 13 Dec 2020 06:04

Instrument :

MSVOA\_V

ClientSampleId :

BG4M2

Tot Ion: 95 Resp: 21205

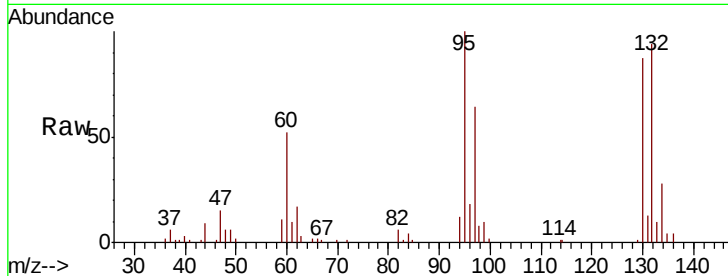
Ion Ratio Lower Upper

95 100

97 63.7 44.4 82.4

132 94.1 64.3 119.3

130 87.4 67.8 125.8

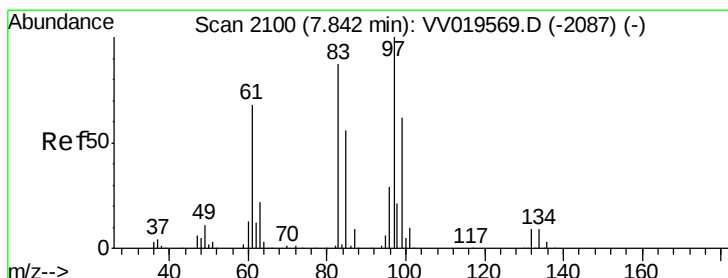
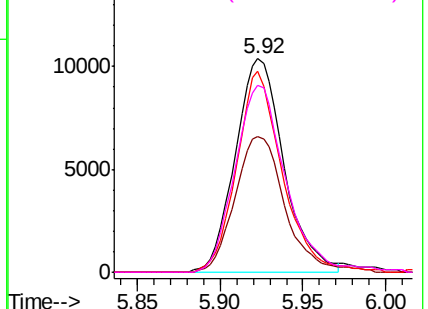
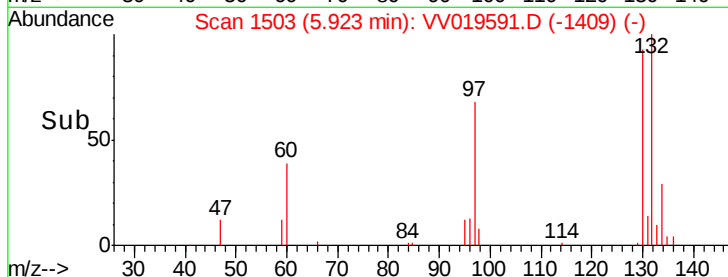


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



#45

1,1,2-Trichloroethane

Concen: 2.233 ug/L

RT: 7.98 min Scan# 2142

Delta R.T. 0.14 min

Lab File: VV019591.D

Acq: 13 Dec 2020 06:04

Tgt Ion: 97 Resp: 8263

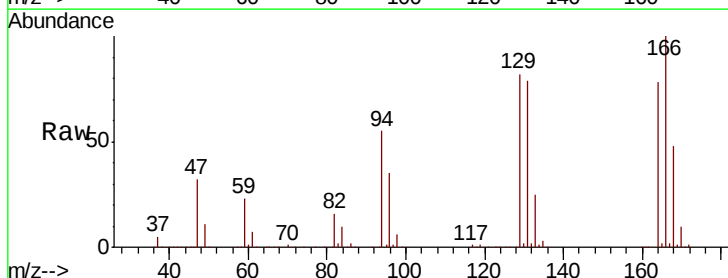
Ion Ratio Lower Upper

97 100

99 18.7 44.1 81.9#

83 265.8 60.0 111.4#

85 38.6 38.6 71.8#

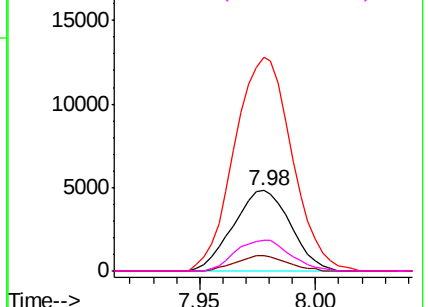
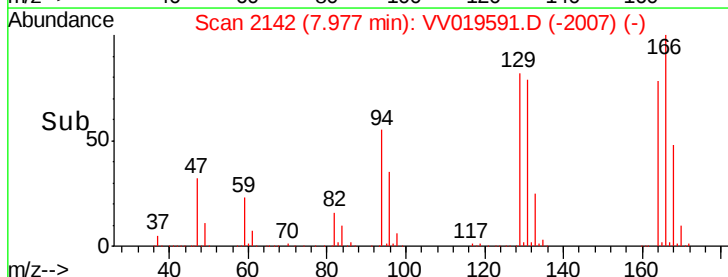


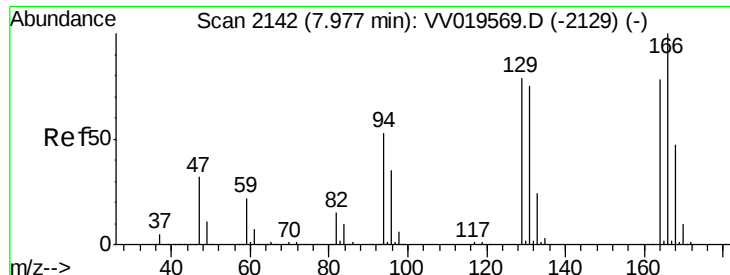
Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0





#46

Tetrachloroethene

Concen: 303.634 ug/L

RT: 7.98 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VV019591.D

Acq: 13 Dec 2020 06:04

Instrument :

MSVOA\_V

ClientSampleId :

BG4M2

Tot Ion:164 Resp: 828014

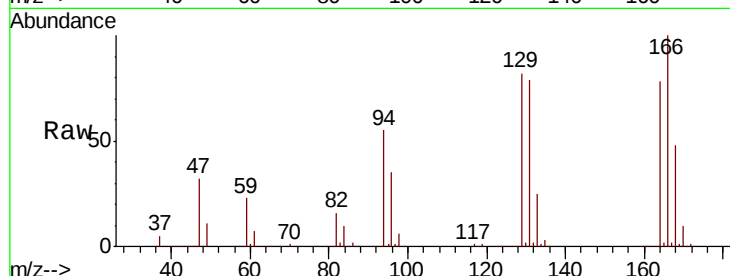
Ion Ratio Lower Upper

164 100

129 104.5 70.6 131.0

131 101.0 68.0 126.4

166 128.0 86.9 161.5

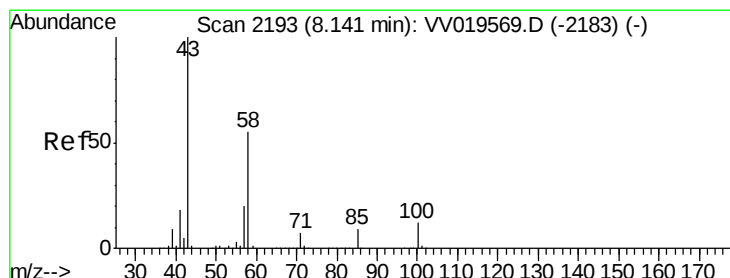
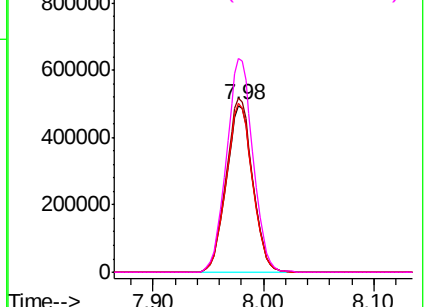
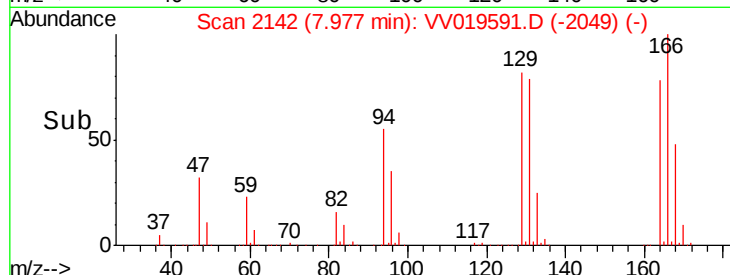


Abundance Ion 164.00 (163.70 to 164.70): V

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



#48

2-Hexanone

Concen: 5.111 ug/L

RT: 8.09 min Scan# 2177

Delta R.T. -0.05 min

Lab File: VV019591.D

Acq: 13 Dec 2020 06:04

Tgt Ion: 43 Resp: 21800

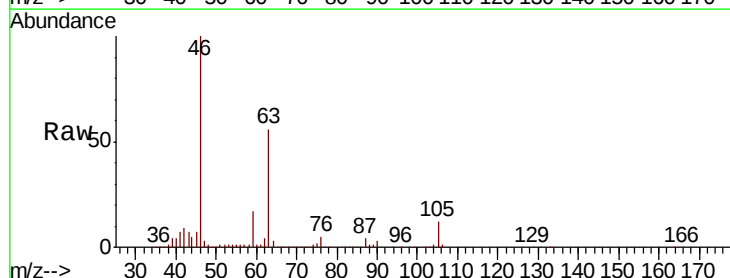
Ion Ratio Lower Upper

43 100

58 24.8 44.4 66.6#

57 22.2 15.7 23.5

100 0.0 9.9 14.9#



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

