

Data File : VV013308.D  
Acq On : 23 Oct 2019 20:59  
Operator : SY/MD  
Sample : K5395-17  
Misc : 5.00ML/MSVOA\_V/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0050

Quant Time: Oct 24 04:21:24 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Oct 24 04:17:57 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 1223423  | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 1176953  | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 529602   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 370965   | 45.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 91.48%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 308720   | 49.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 98.64%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 462486   | 38.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 77.94%  |
| 21) 2-Butanone-d5              | 3.95    | 46    | 470054   | 86.50    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 86.50%  |
| 24) Chloroform-d               | 4.40    | 84    | 826042   | 47.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.54%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 503584   | 48.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.06%  |
| 32) Benzene-d6                 | 5.10    | 84    | 1710448  | 47.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 532963   | 47.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.00%  |
| 41) Toluene-d8                 | 7.36    | 98    | 1497378  | 45.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.66%  |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 227503   | 45.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.90%  |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 319420   | 93.99    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.99%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 677458   | 45.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 91.36%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67   | 152   | 624766   | 51.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.82% |

#### Target Compounds

|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13  | 101 | 5165   | 0.803  | ug/L # | 13     |
| 12) 1,1-Dichloroethene         | 2.13  | 96  | 4565   | 0.737  | ug/L # | 1      |
| 13) Acetone                    | 2.21  | 43  | 4439   | 1.105  | ug/L   | 51     |
| 25) Chloroform                 | 4.42  | 83  | 384419 | 24.321 | ug/L   | 97     |
| 27) 1,2-Dichloroethane         | 5.09  | 62  | 9094   | 0.789  | ug/L   | 98     |
| 38) Bromodichloromethane       | 6.55  | 83  | 58306  | 4.917  | ug/L   | 95     |
| 48) 2-Hexanone                 | 8.14  | 43  | 41313  | 4.548  | ug/L # | 86     |
| 49) Dibromochloromethane       | 8.29  | 129 | 9554   | 0.951  | ug/L   | 96     |
| 59) 1,2,3-Trichloropropane     | 11.29 | 75  | 52591  | 4.682  | ug/L   | 93     |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180 | 6972   | 0.541  | ug/L   | 94     |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180 | 8245   | 0.712  | ug/L   | 99     |

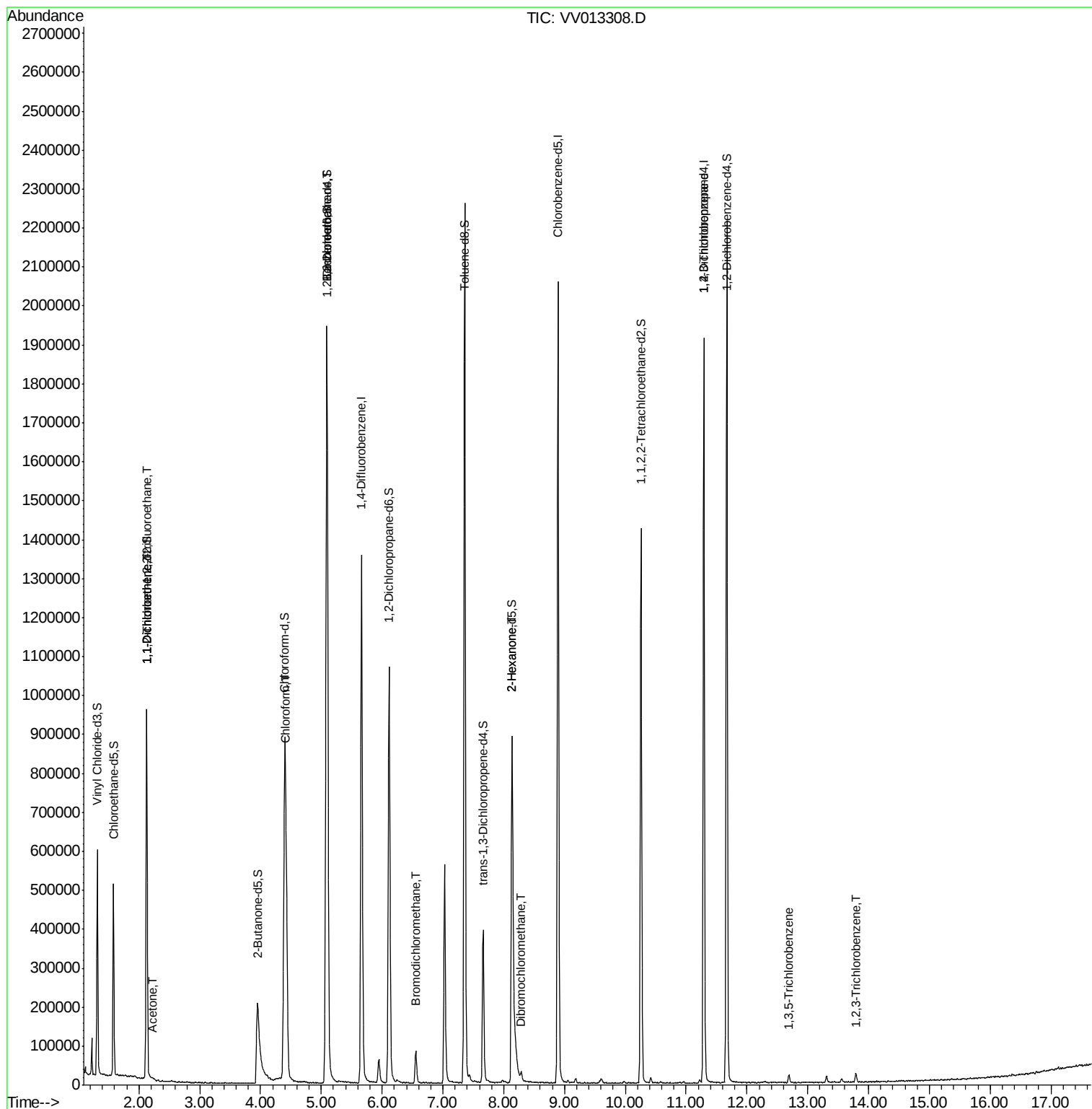
(#) = qualifier out of range (m) = manual integration (+) = signals summed

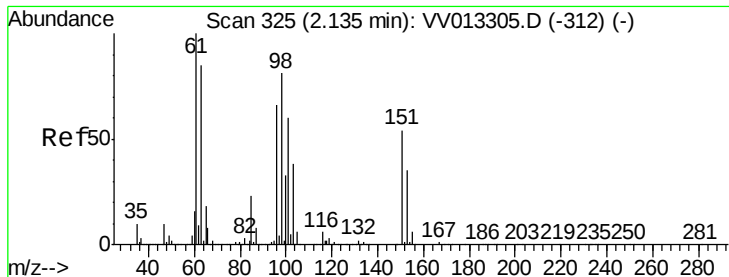
Data File : VV013308.D

```
Acq On       : 23 Oct 2019   20:59
Operator     : SY/MD
Sample       : K5395-17
Misc         : 5.00ML/MSVOA_V/WATER
ALS Vial     : 24      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
C0050

Quant Time: Oct 24 04:21:24 2019  
Quant Method : Z:\V\OASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Oct 24 04:17:57 2019  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.803 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV013308.D

Acq: 23 Oct 2019 20:59

Instrument :

MSVOA\_V

ClientSampleId :

C0050

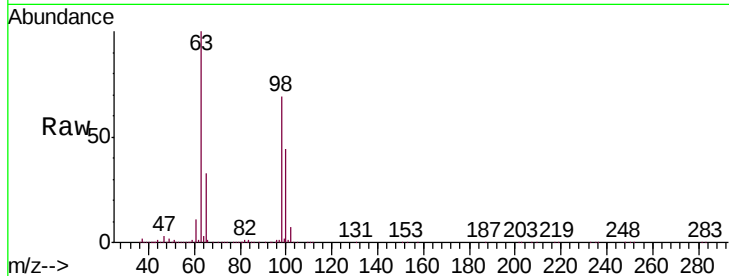
Tgt Ion: 101 Resp: 5165

Ion Ratio Lower Upper

101 100

85 1.2 31.4 47.2#

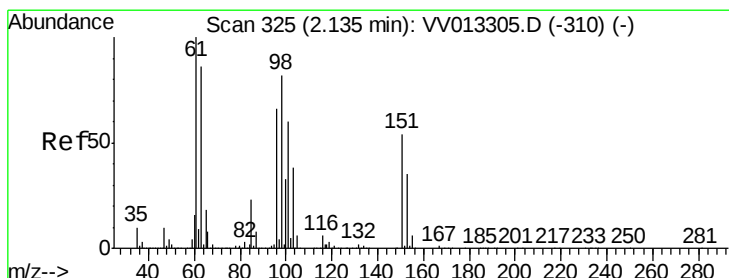
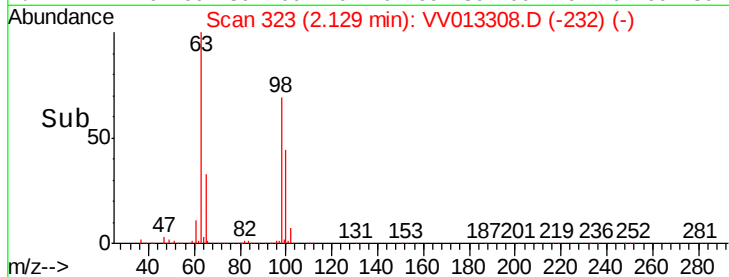
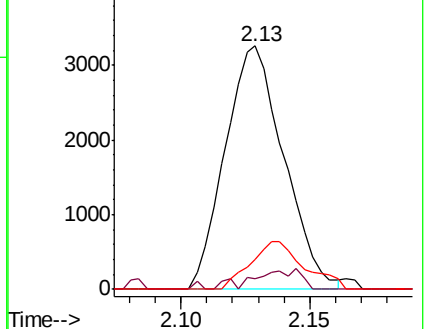
151 0.0 74.6 112.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.737 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV013308.D

Acq: 23 Oct 2019 20:59

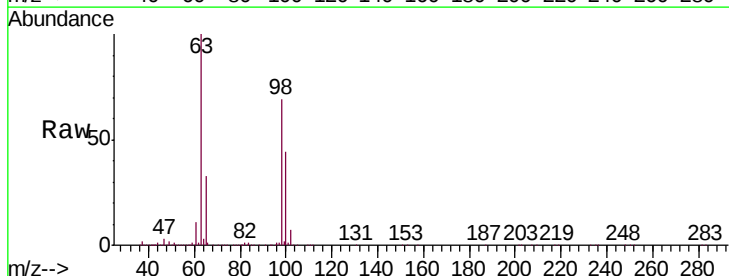
Tgt Ion: 96 Resp: 4565

Ion Ratio Lower Upper

96 100

61 1211.5 103.3 191.8#

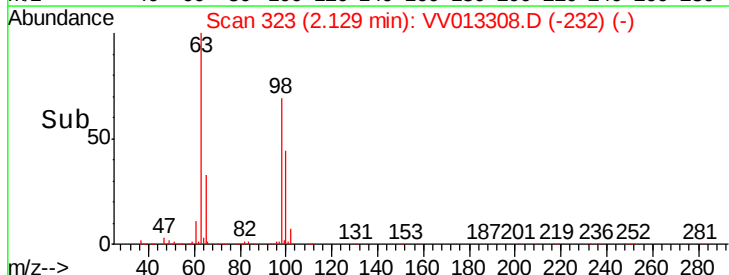
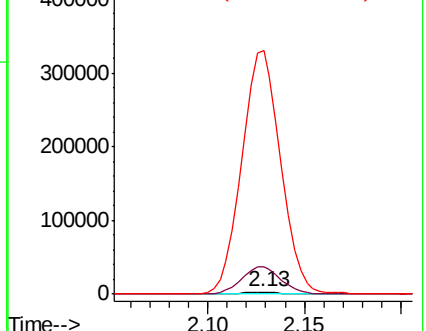
63 10794.2 74.8 138.8#

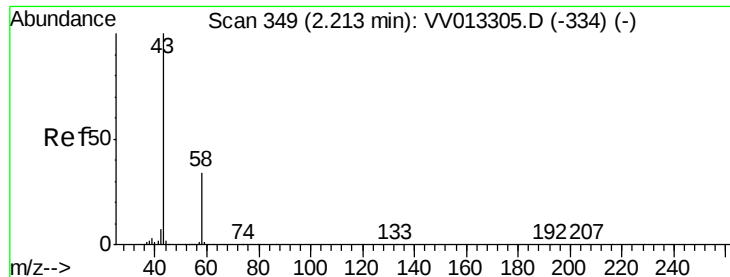


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 1.105 ug/L

RT: 2.21 min Scan# 349

Delta R.T. -0.00 min

Lab File: VV013308.D

Acq: 23 Oct 2019 20:59

Instrument :

MSVOA\_V

ClientSampleId :

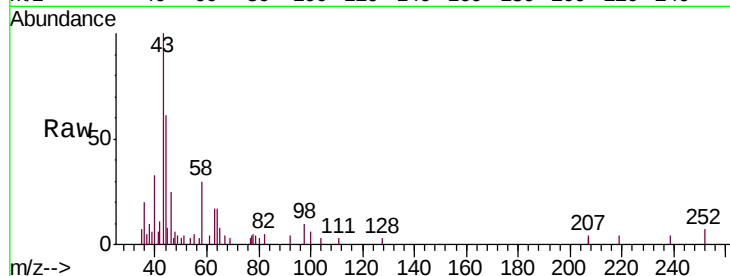
C0050

Tgt Ion: 43 Resp: 4439

Ion Ratio Lower Upper

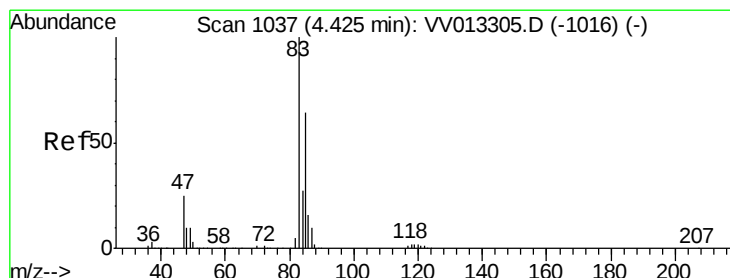
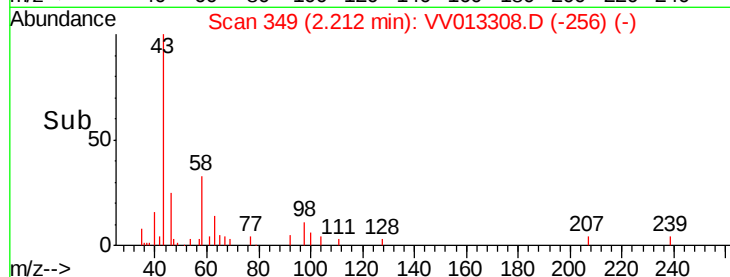
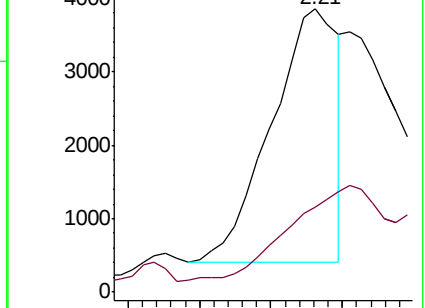
43 100

58 59.6 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VV013305.D (-334) (-)

Ion 58.00 (57.70 to 58.70): VV013305.D (-334) (-)



#25

Chloroform

Concen: 24.321 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VV013308.D

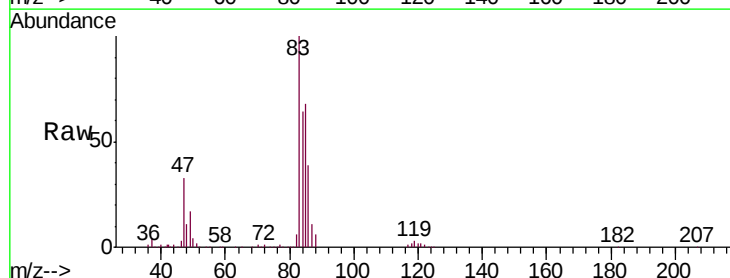
Acq: 23 Oct 2019 20:59

Tgt Ion: 83 Resp: 384419

Ion Ratio Lower Upper

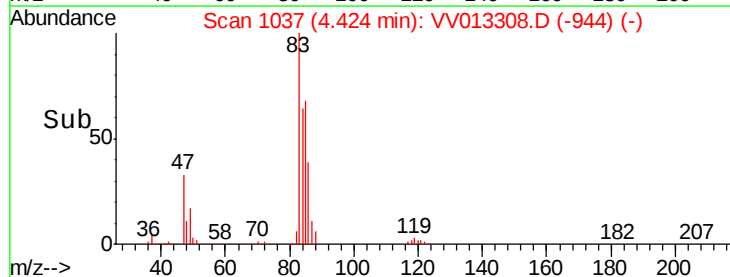
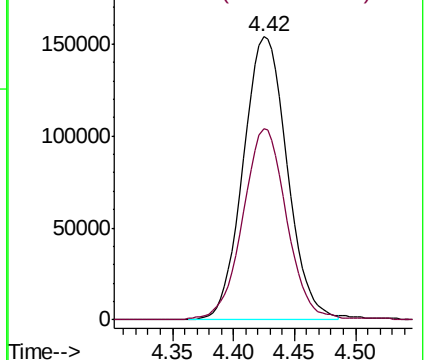
83 100

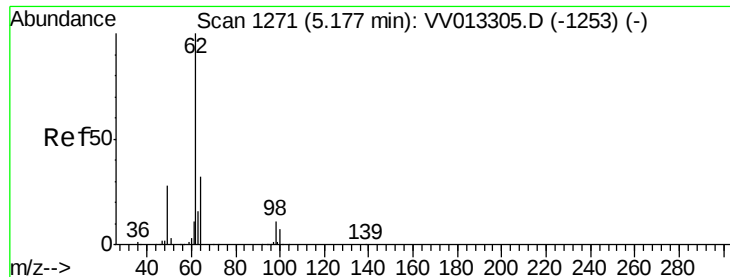
85 67.6 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VV013305.D (-1016) (-)

Ion 85.00 (84.70 to 85.70): VV013305.D (-1016) (-)





#27

1,2-Dichloroethane

Concen: 0.789 ug/L

RT: 5.09 min Scan# 1245

Delta R.T. -0.08 min

Lab File: VV013308.D

Acq: 23 Oct 2019 20:59

Instrument :

MSVOA\_V

ClientSampleId :

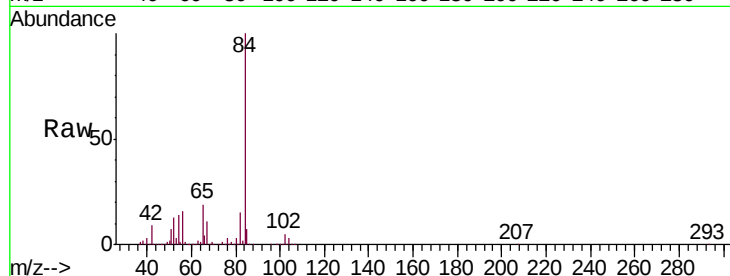
C0050

Tgt Ion: 62 Resp: 9094

Ion Ratio Lower Upper

62 100

98 9.7 8.5 12.7



Abundance Ion 62.00 (61.70 to 62.70): VV013308.D (-1178) (-)

Ion 98.00 (97.70 to 98.70): VV013308.D (-1178) (-)

5.09

4000

3000

2000

1000

0

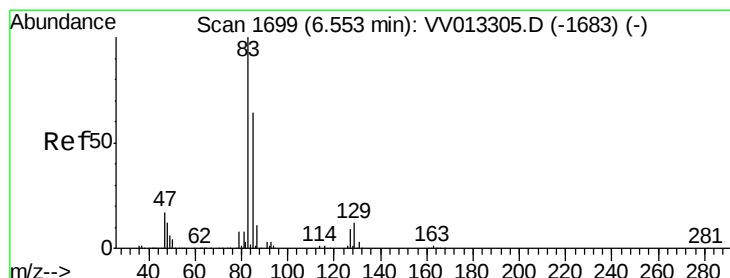
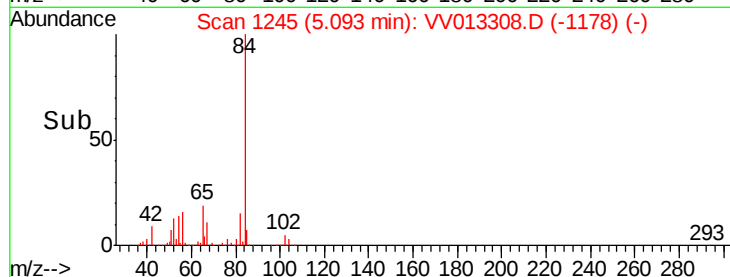
Time-->

5.00

5.05

5.10

5.15



#38

Bromodichloromethane

Concen: 4.917 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV013308.D

Acq: 23 Oct 2019 20:59

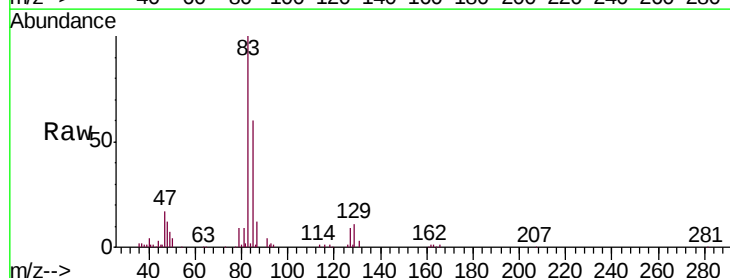
Tgt Ion: 83 Resp: 58306

Ion Ratio Lower Upper

83 100

85 59.5 44.6 82.8

127 9.2 7.4 11.2



Abundance Ion 83.00 (82.70 to 83.70): VV013308.D (-1606) (-)

Ion 85.00 (84.70 to 85.70): VV013308.D (-1606) (-)

Ion 127.00 (126.70 to 127.70): VV013308.D (-1606) (-)

6.55

40000

30000

20000

10000

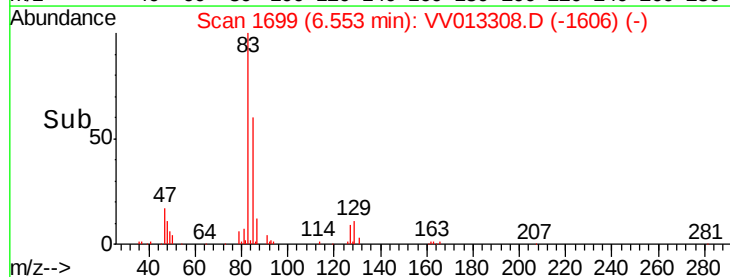
0

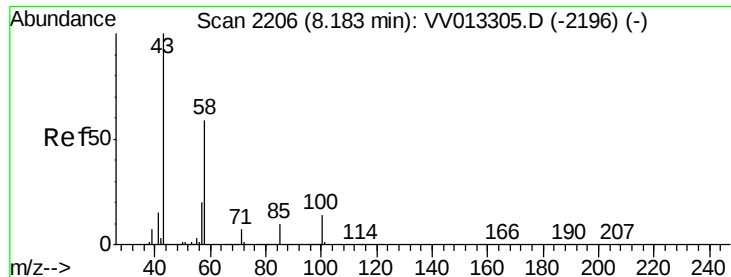
Time-->

6.50

6.55

6.60

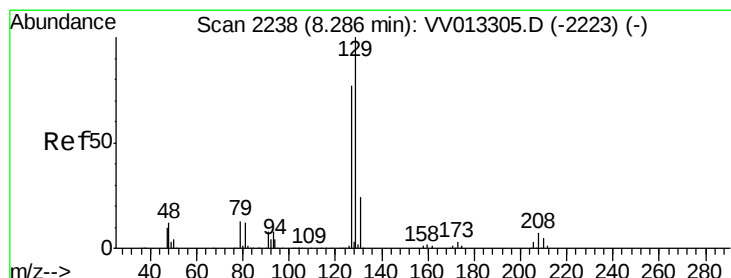
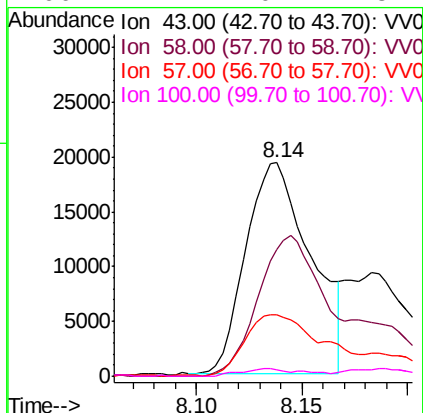
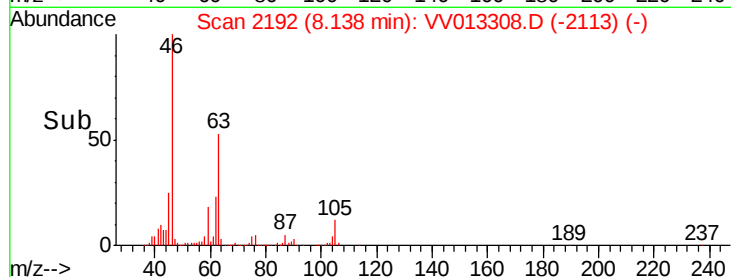
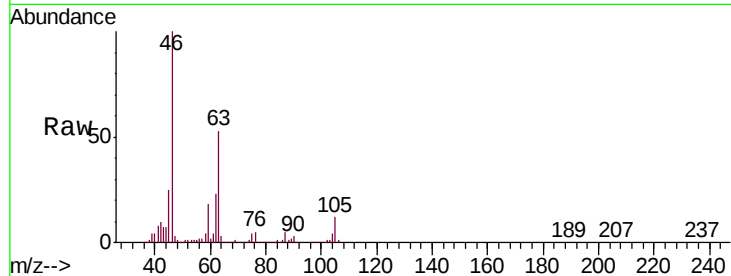




#48  
2-Hexanone  
Concen: 4.548 ug/L  
RT: 8.14 min Scan# 2192  
Delta R.T. -0.05 min  
Lab File: VV013308.D  
Acq: 23 Oct 2019 20:59

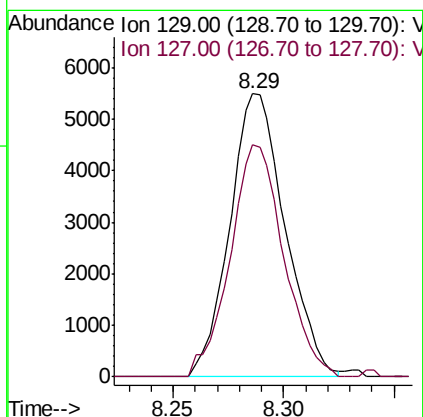
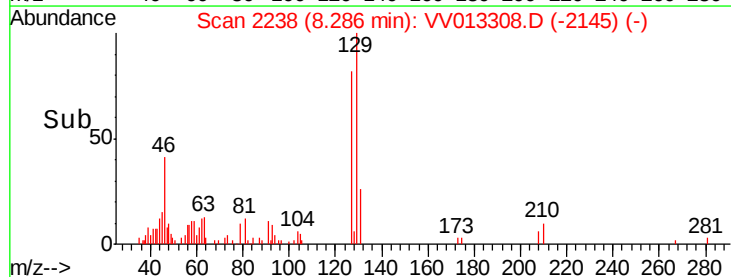
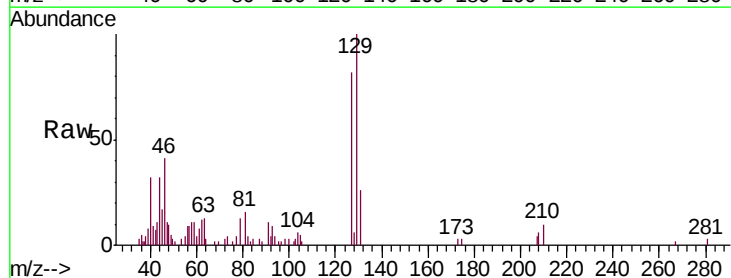
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0050

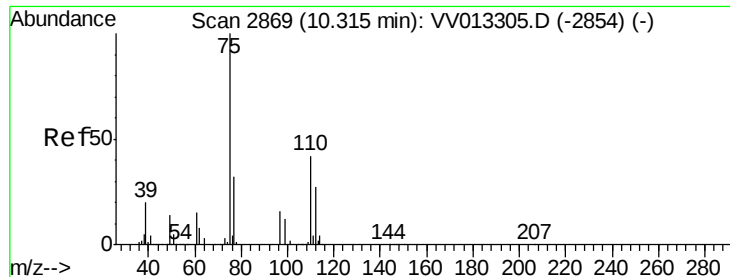
Tgt Ion: 43 Resp: 41313  
Ion Ratio Lower Upper  
43 100  
58 65.7 47.0 70.6  
57 27.5 13.8 20.8#  
100 2.4 10.2 15.4#



#49  
Dibromochloromethane  
Concen: 0.951 ug/L  
RT: 8.29 min Scan# 2238  
Delta R.T. -0.00 min  
Lab File: VV013308.D  
Acq: 23 Oct 2019 20:59

Tgt Ion: 129 Resp: 9554  
Ion Ratio Lower Upper  
129 100  
127 81.8 54.7 101.5





#59

1,2,3-Trichloropropane

Concen: 4.682 ug/L

RT: 11.29 min Scan# 3172

Delta R.T. 0.97 min

Lab File: VV013308.D

Acq: 23 Oct 2019 20:59

Instrument :

MSVOA\_V

ClientSampleId :

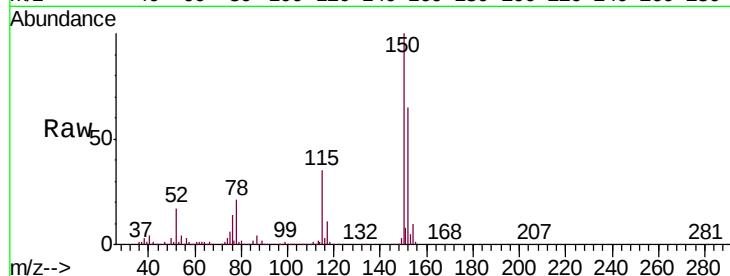
C0050

Tgt Ion: 75 Resp: 52591

Ion Ratio Lower Upper

75 100

77 36.3 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV013308.D (-2247) (-)

Ion 77.00 (76.70 to 77.70): VV013308.D (-2247) (-)

11.29

40000

30000

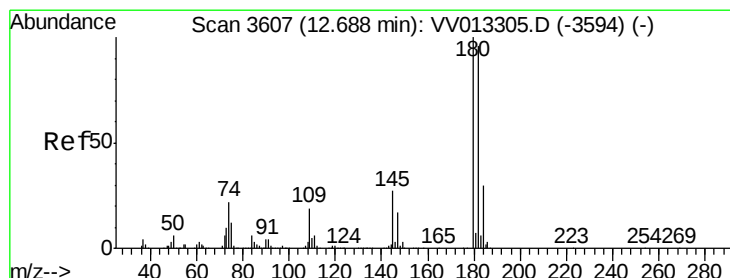
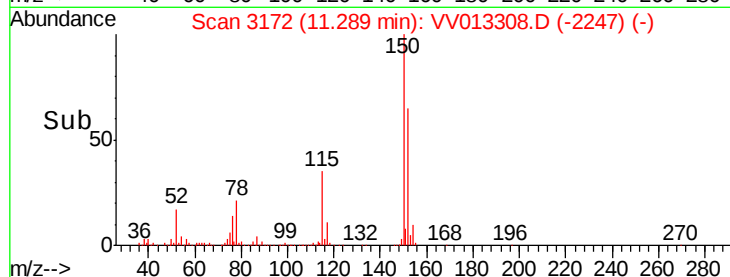
20000

10000

0

Time-->

11.25 11.30 11.35



#67

1,3,5-Trichlorobenzene

Concen: 0.541 ug/L

RT: 12.69 min Scan# 3609

Delta R.T. 0.01 min

Lab File: VV013308.D

Acq: 23 Oct 2019 20:59

Tgt Ion: 180 Resp: 6972

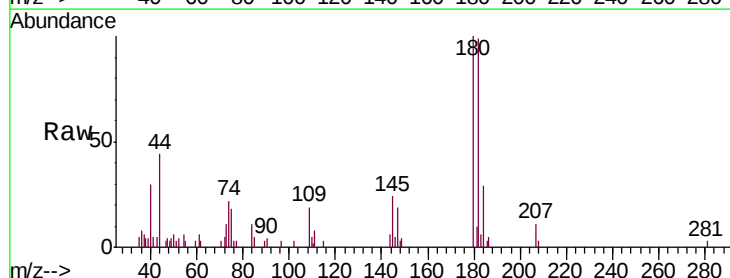
Ion Ratio Lower Upper

180 100

182 102.1 76.3 114.5

184 33.4 24.8 37.2

145 28.1 21.2 31.8



Abundance Ion 180.00 (179.70 to 180.70): VV013308.D (-2985) (-)

Ion 182.00 (181.70 to 182.70): VV013308.D (-2985) (-)

Ion 184.00 (183.70 to 184.70): VV013308.D (-2985) (-)

Ion 145.00 (144.70 to 145.70): VV013308.D (-2985) (-)

12.69

6000

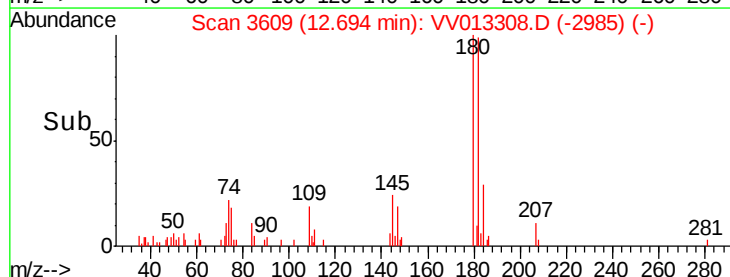
4000

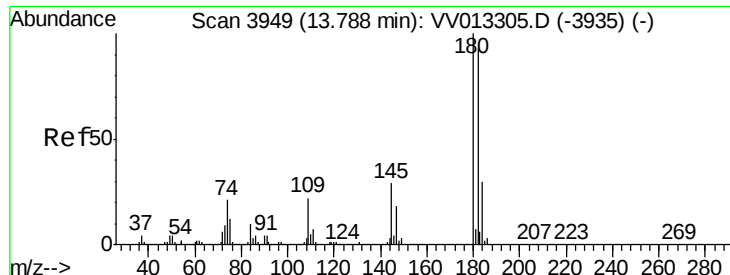
2000

0

Time-->

12.65 12.70





#70  
 1,2,3-Trichlorobenzene  
 Concen: 0.712 ug/L  
 RT: 13.79 min Scan# 3951  
 Delta R.T. 0.01 min  
 Lab File: VV013308.D  
 Acq: 23 Oct 2019 20:59

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0050

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.4  | 77.0  | 115.6 |
| 145     | 29.1  | 23.4  | 35.2  |

