

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U111418\  
 Data File : VU028122.D  
 Acq On : 14 Nov 2018 15:46  
 Operator : MD/SY  
 Sample : J5948-02  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 15 04:29:20 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111418WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Nov 15 04:25:02 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 154623   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 145231   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 66440    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 57854    | 4.51     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 90.20% |
| 7) Chloroethane-d5             | 1.68   | 69    | 46929    | 4.60     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 92.00% |
| 11) 1,1-Dichloroethene-d2      | 2.28   | 63    | 80612    | 3.36     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 67.20% |
| 20) 2-Butanone-d5              | 4.19   | 46    | 182716   | 49.10    | ug/L | -0.02  |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 98.20% |
| 24) Chloroform-d               | 4.65   | 84    | 93652    | 4.59     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.80% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 54128    | 4.75     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.00% |
| 32) Benzene-d6                 | 5.34   | 84    | 198849   | 4.77     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.40% |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 73380    | 4.92     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 98.40% |
| 41) Toluene-d8                 | 7.57   | 98    | 176669   | 4.55     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.00% |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 23504    | 4.42     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 88.40% |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 146359   | 48.17    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 96.34% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 50172    | 4.76     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 60638    | 4.88     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.60% |

## Target Compounds

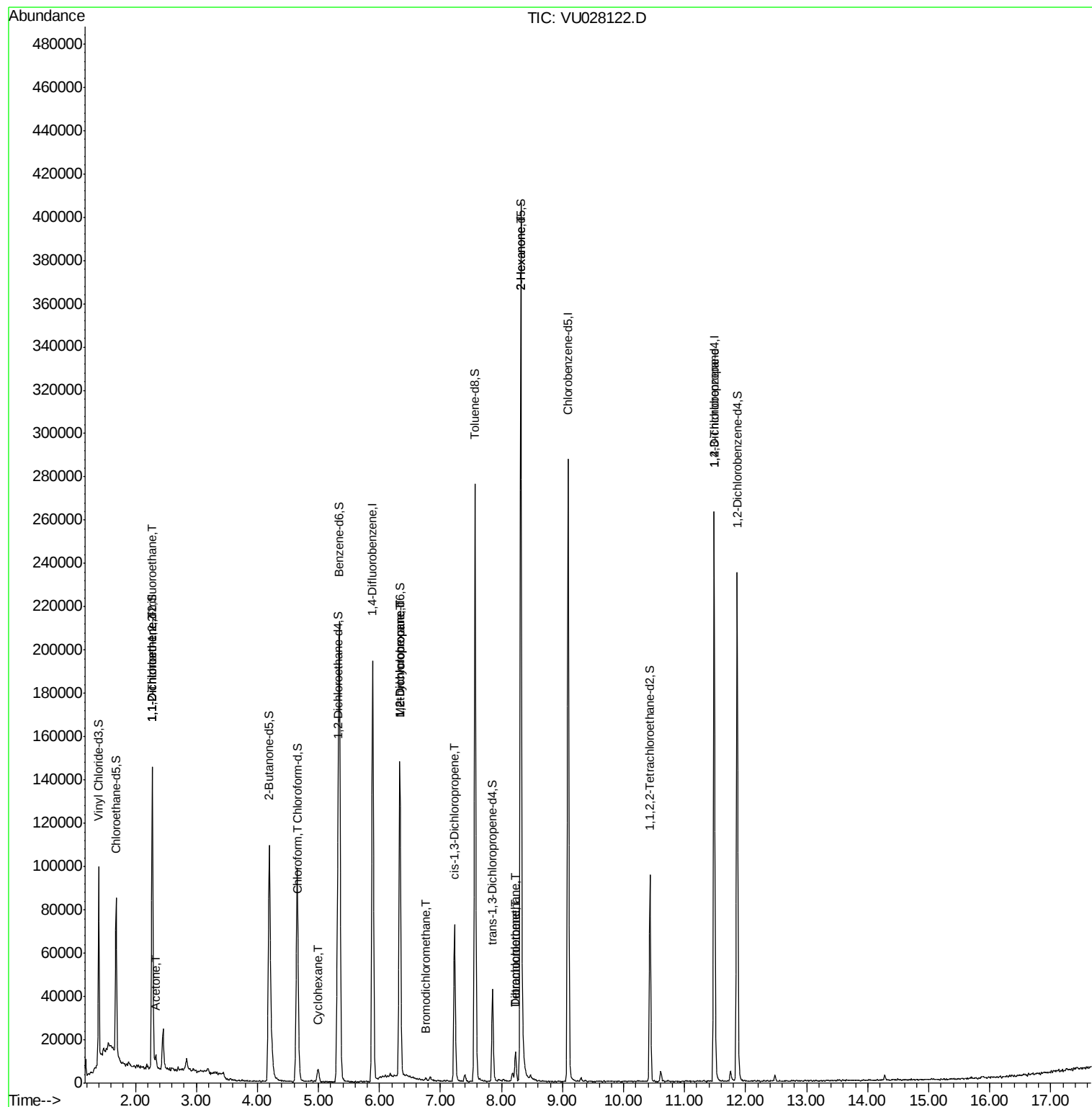
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28  | 101  | 771      | 0.076 | ug/L # | 20     |
| 12) 1,1-Dichloroethene         | 2.29  | 96   | 567      | 0.055 | ug/L # | 1      |
| 13) Acetone                    | 2.32  | 43   | 4084     | 1.629 | ug/L   | 99     |
| 25) Chloroform                 | 4.67  | 83   | 4543     | 0.220 | ug/L   | 94     |
| 30) Cyclohexane                | 4.99  | 56   | 3190     | 0.138 | ug/L # | 88     |
| 35) Methylcyclohexane          | 6.33  | 83   | 14399    | 0.693 | ug/L # | 16     |
| 37) 1,2-Dichloropropane        | 6.33  | 63   | 7299     | 0.539 | ug/L # | 92     |
| 38) Bromodichloromethane       | 6.76  | 83   | 1087     | 0.076 | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene    | 7.23  | 75   | 1679     | 0.092 | ug/L   | 89     |
| 47) Tetrachloroethene          | 8.23  | 164  | 2864     | 0.291 | ug/L   | 90     |
| 48) 2-Hexanone                 | 8.31  | 43   | 18110    | 2.732 | ug/L # | 67     |
| 49) Dibromochloromethane       | 8.23  | 129  | 2518     | 0.290 | ug/L # | 11     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75   | 9471     | 1.246 | ug/L   | 94     |

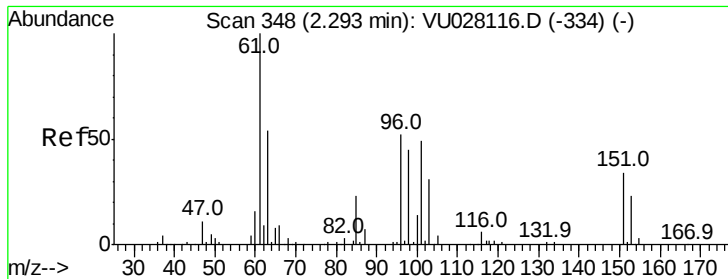
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU111418\  
Data File : VU028122.D  
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Operator : MD/SY  
Sample : J5948-02  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Nov 15 04:29:20 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111418WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Nov 15 04:25:02 2018  
Response via : Initial Calibration





#10

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

Concen: 0.076 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU028122.D

Acq: 14 Nov 2018 15:46

Instrument :

MSVOA\_U

ClientSampleId :

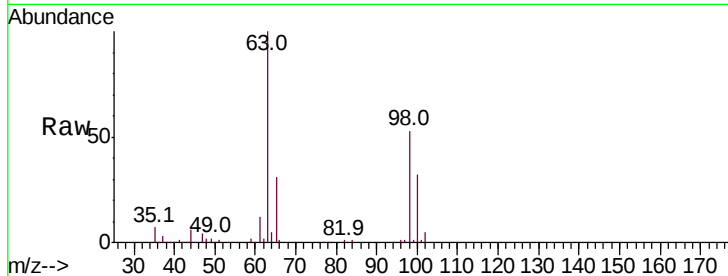
Tot Ion:101 Resp: 771

Ion Ratio Lower Upper

101 100

85 0.0 37.6 56.4#

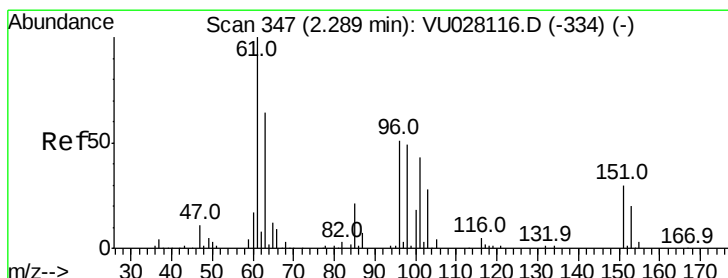
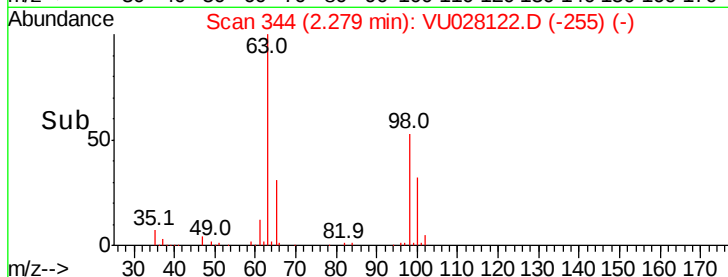
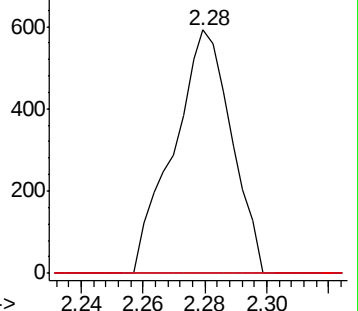
151 0.0 58.2 87.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.055 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028122.D

Acq: 14 Nov 2018 15:46

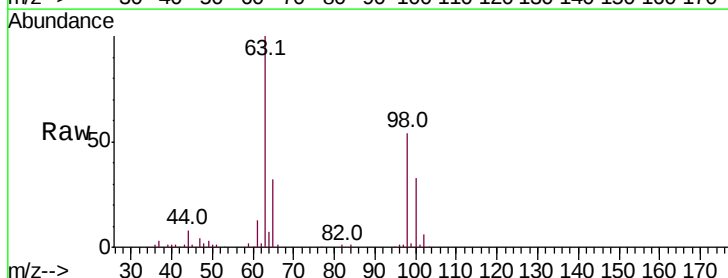
Tgt Ion: 96 Resp: 567

Ion Ratio Lower Upper

96 100

61 1231.4 134.8 250.3#

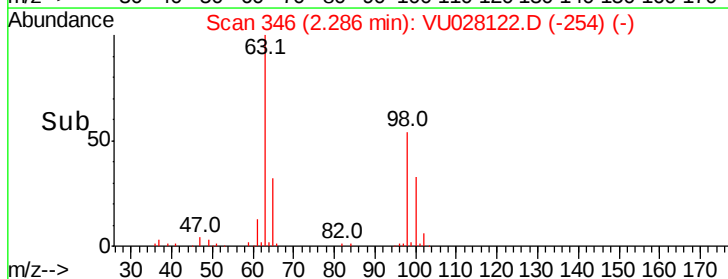
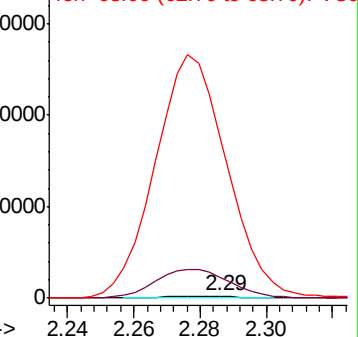
63 9702.7 100.1 185.9#

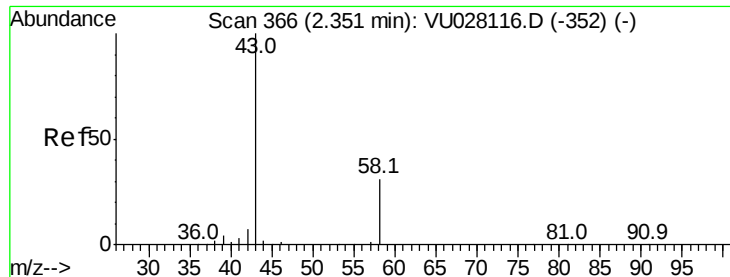


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.629 ug/L

RT: 2.32 min Scan# 358

Delta R.T. -0.03 min

Lab File: VU028122.D

Acq: 14 Nov 2018 15:46

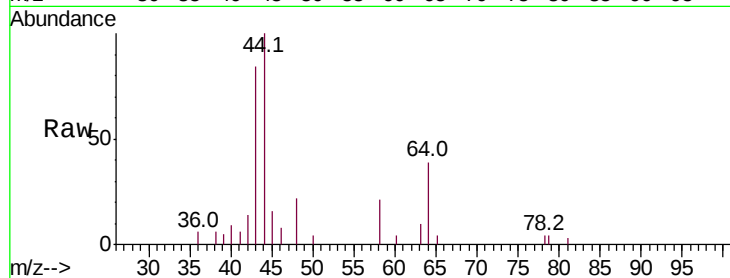
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 43 Resp: 4084

Ion Ratio Lower Upper

43 100

58 30.5 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.32

2500

2000

1500

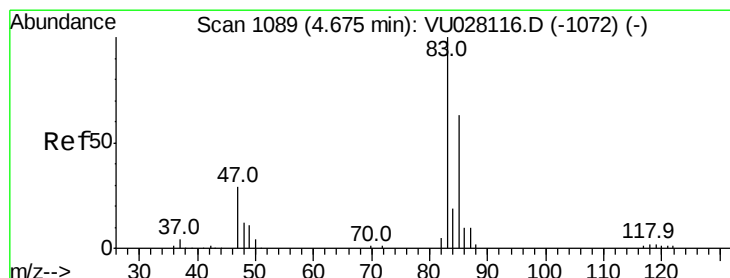
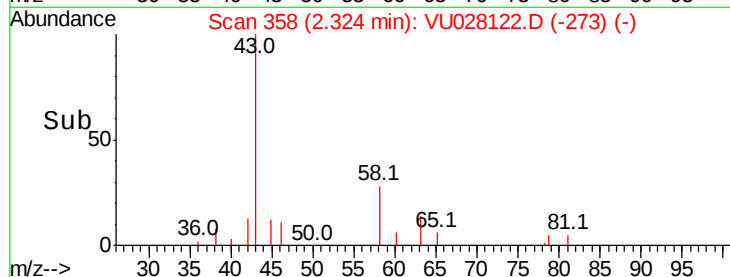
1000

500

0

Time-->

2.30 2.35



#25

Chloroform

Concen: 0.220 ug/L

RT: 4.67 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VU028122.D

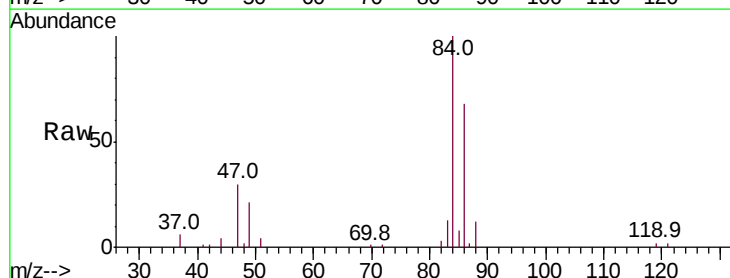
Acq: 14 Nov 2018 15:46

Tgt Ion: 83 Resp: 4543

Ion Ratio Lower Upper

83 100

85 59.9 45.0 83.6



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0

4.67

2000

1500

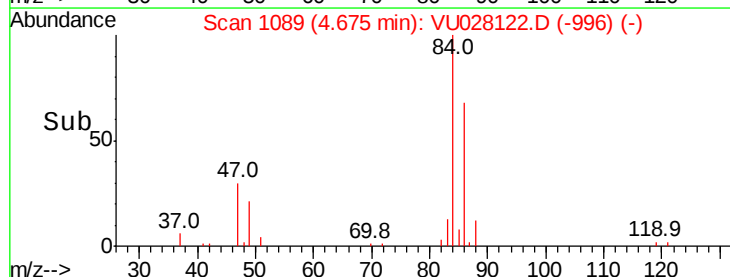
1000

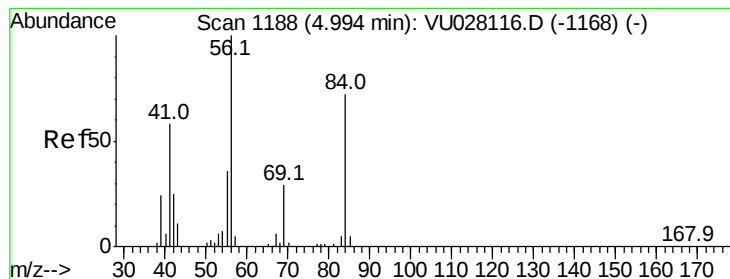
500

0

Time-->

4.60 4.65 4.70 4.75





#30

Cyclohexane

Concen: 0.138 ug/L

RT: 4.99 min Scan# 1187

Delta R.T. -0.00 min

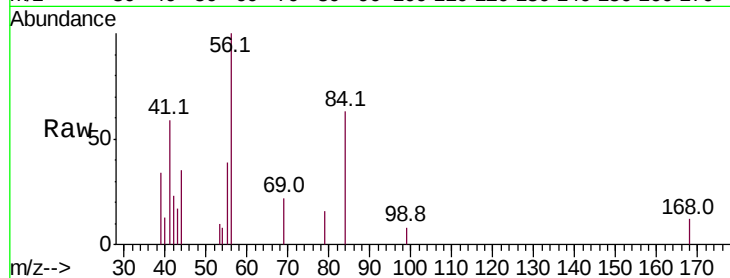
Lab File: VU028122.D

Acq: 14 Nov 2018 15:46

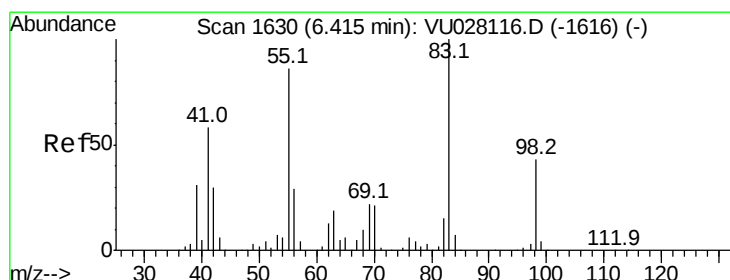
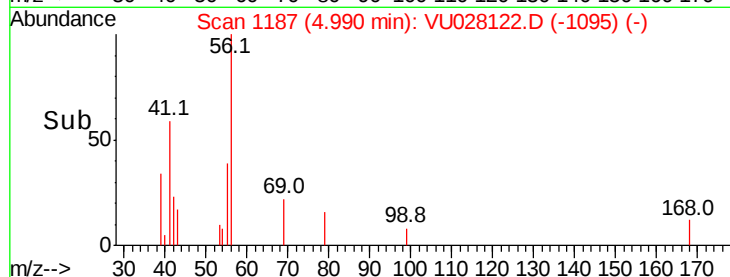
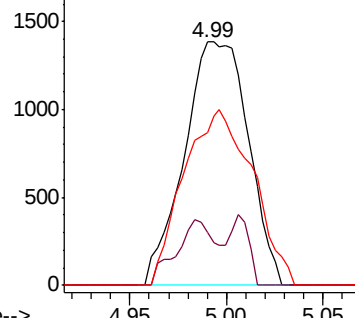
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 56 Resp: 3190

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 15.9  | 22.6  | 33.8# |
| 84  | 77.9  | 57.7  | 86.5  |



Abundance Ion 56.10 (55.80 to 56.80): VU0  
Ion 69.15 (68.85 to 69.85): VU0  
Ion 84.15 (83.85 to 84.85): VU0



#35

Methylcyclohexane

Concen: 0.693 ug/L

RT: 6.33 min Scan# 1605

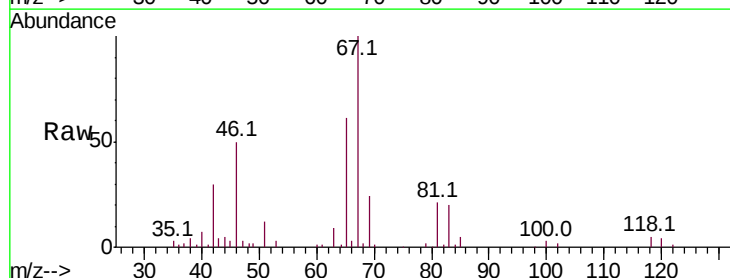
Delta R.T. -0.08 min

Lab File: VU028122.D

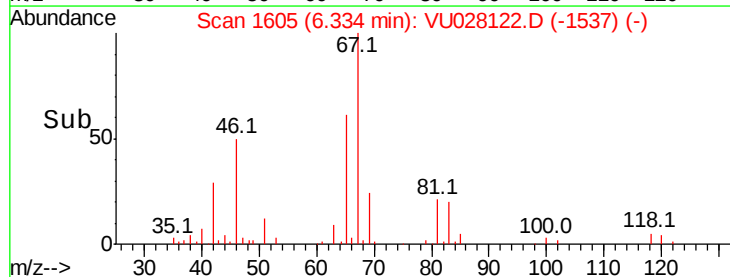
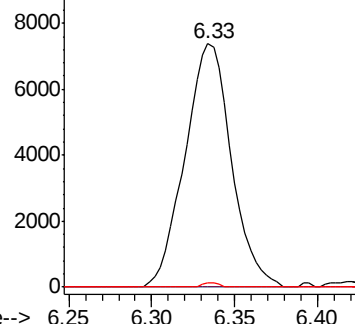
Acq: 14 Nov 2018 15:46

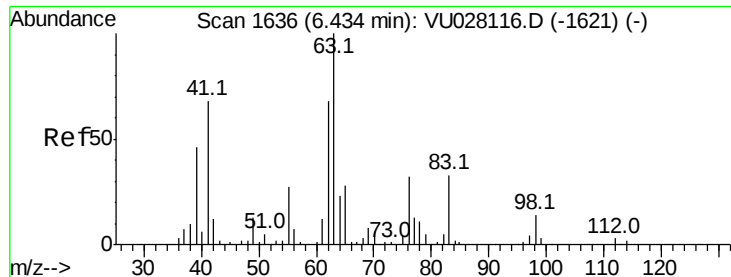
Tgt Ion: 83 Resp: 14399

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 83  | 100   |       |        |
| 55  | 0.0   | 69.0  | 103.4# |
| 98  | 0.6   | 33.3  | 49.9#  |



Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.539 ug/L

RT: 6.33 min Scan# 1604

Delta R.T. -0.10 min

Lab File: VU028122.D

Acq: 14 Nov 2018 15:46

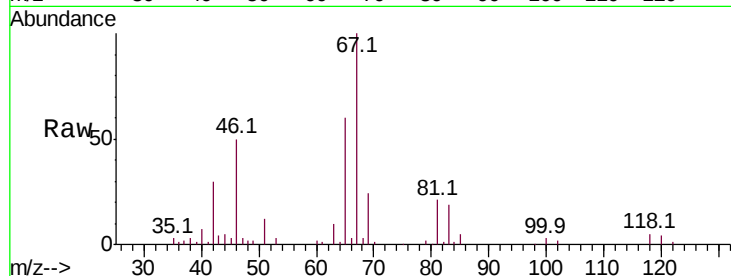
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 63 Resp: 7299

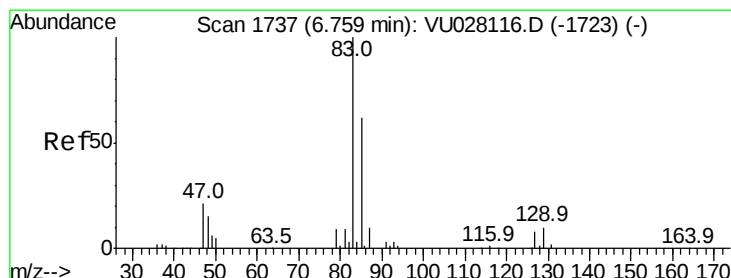
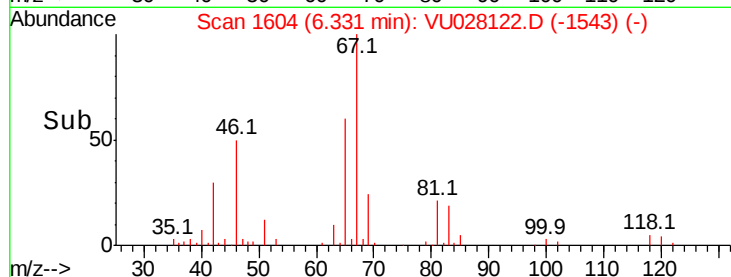
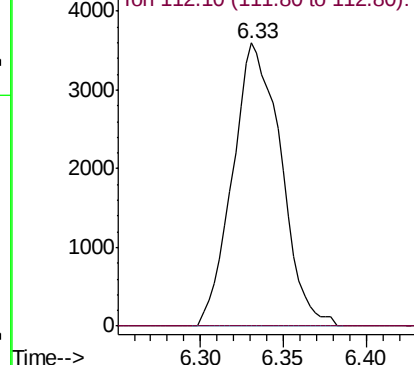
Ion Ratio Lower Upper

63 100

112 0.0 2.2 3.4#



Abundance Ion 63.10 (62.80 to 63.80): VU0  
Ion 112.10 (111.80 to 112.80): V



#38

Bromodichloromethane

Concen: 0.076 ug/L

RT: 6.76 min Scan# 1738

Delta R.T. 0.00 min

Lab File: VU028122.D

Acq: 14 Nov 2018 15:46

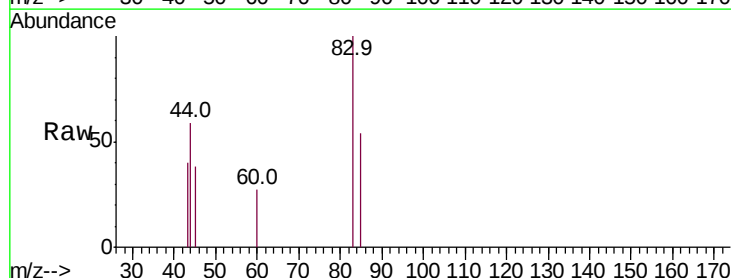
Tgt Ion: 83 Resp: 1087

Ion Ratio Lower Upper

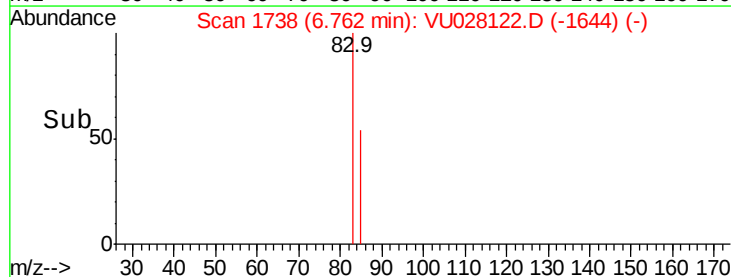
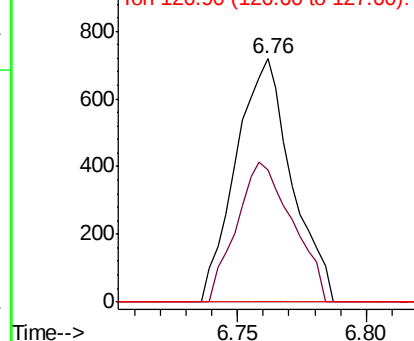
83 100

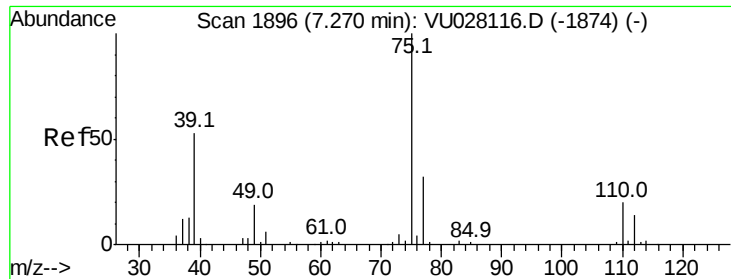
85 54.4 44.5 82.7

127 0.0 6.8 10.2#



Abundance Ion 82.95 (82.65 to 83.65): VU0  
Ion 85.00 (84.70 to 85.70): VU0  
Ion 126.90 (126.60 to 127.60): V



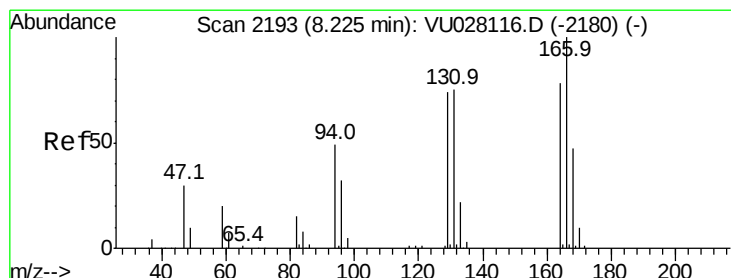
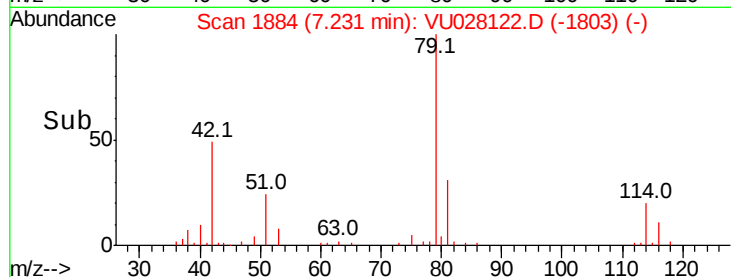
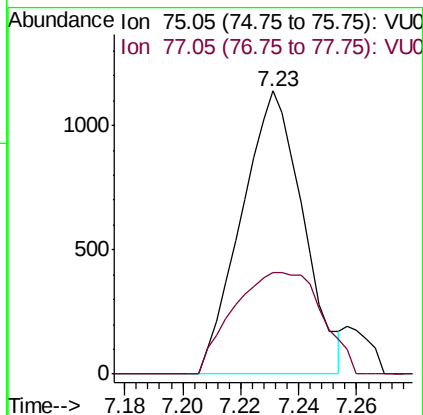
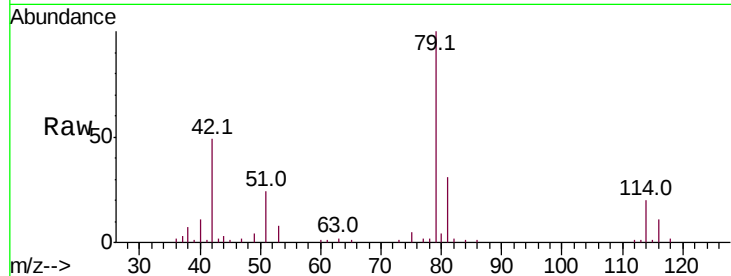


#39

cis-1,3-Dichloropropene  
 Concen: 0.092 ug/L  
 RT: 7.23 min Scan# 1884  
 Delta R.T. -0.04 min  
 Lab File: VU028122.D  
 Acq: 14 Nov 2018 15:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :

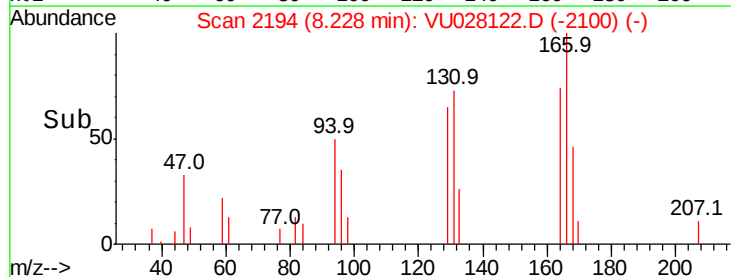
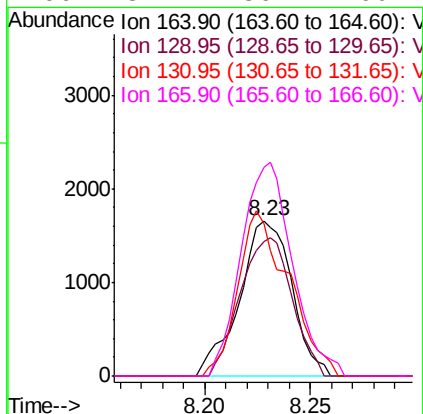
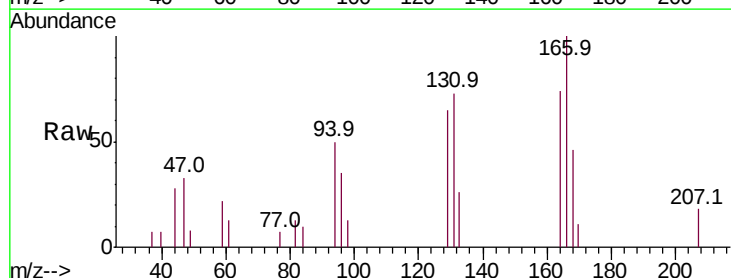
Tot Ion: 75 Resp: 1679  
 Ion Ratio Lower Upper  
 75 100  
 77 36.1 20.9 38.9

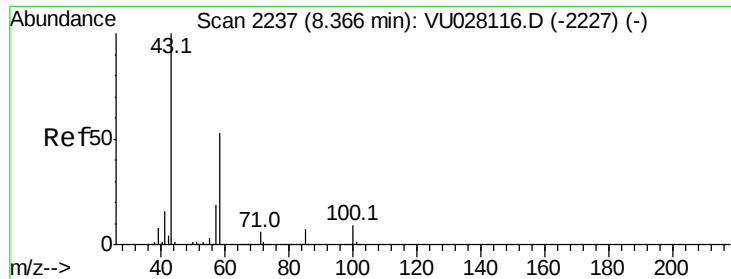


#47

Tetrachloroethene  
 Concen: 0.291 ug/L  
 RT: 8.23 min Scan# 2194  
 Delta R.T. 0.00 min  
 Lab File: VU028122.D  
 Acq: 14 Nov 2018 15:46

Tgt Ion:164 Resp: 2864  
 Ion Ratio Lower Upper  
 164 100  
 129 86.7 69.7 129.4  
 131 98.5 64.0 118.8  
 166 134.4 86.4 160.4

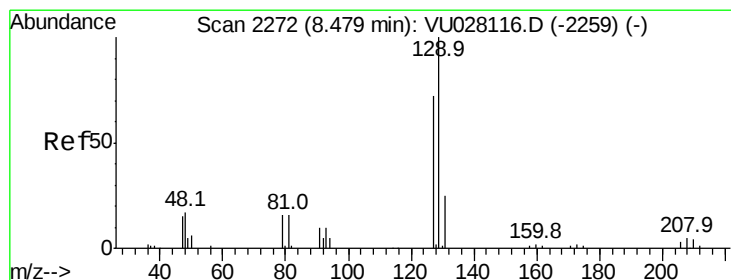
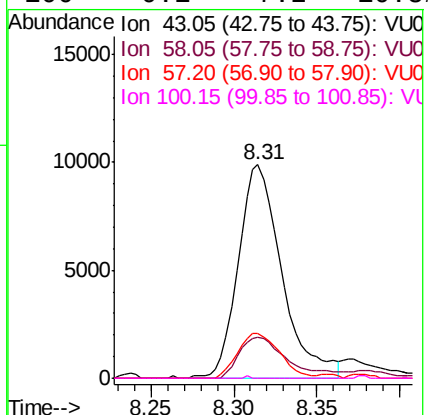
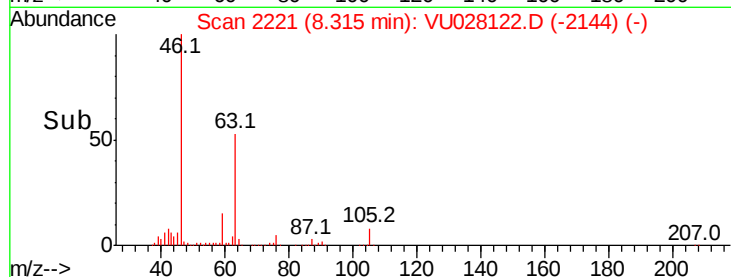
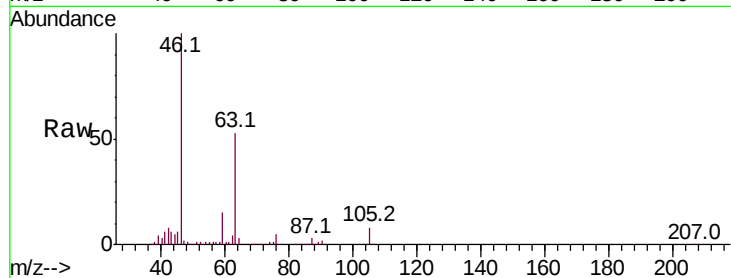




#48  
2-Hexanone  
Concen: 2.732 ug/L  
RT: 8.31 min Scan# 2221  
Delta R.T. -0.05 min  
Lab File: VU028122.D  
Acq: 14 Nov 2018 15:46

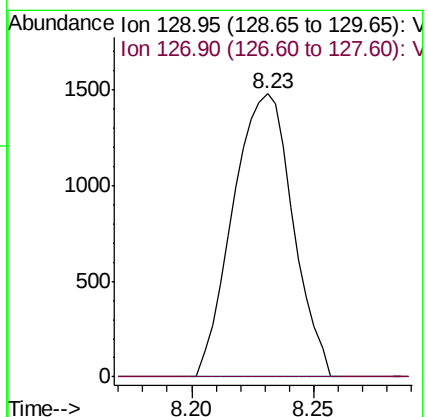
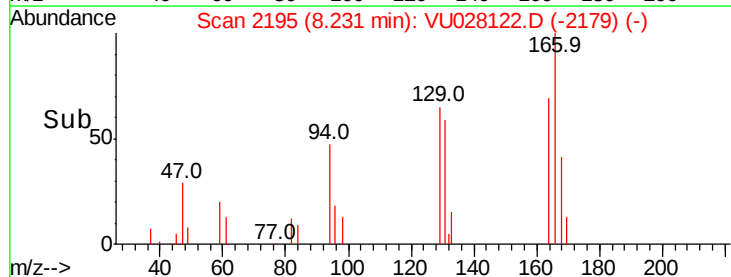
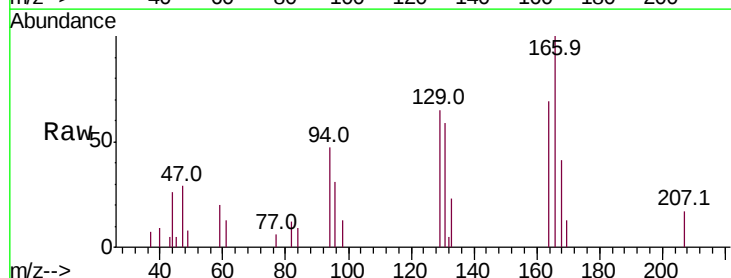
Instrument :  
MSVOA\_U  
ClientSampleId :

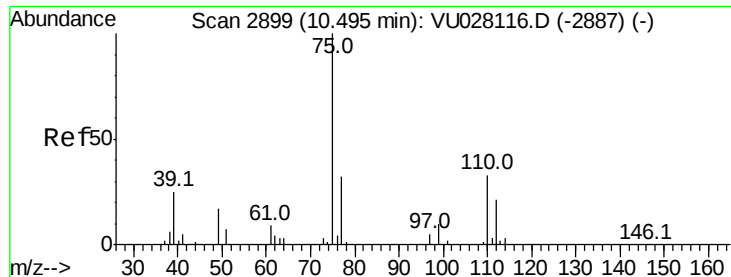
Tot Ion: 43 Resp: 18110  
Ion Ratio Lower Upper  
43 100  
58 21.5 41.7 62.5#  
57 20.2 14.0 21.0  
100 0.1 7.2 10.8#



#49  
Dibromochloromethane  
Concen: 0.290 ug/L  
RT: 8.23 min Scan# 2195  
Delta R.T. -0.25 min  
Lab File: VU028122.D  
Acq: 14 Nov 2018 15:46

Tgt Ion: 129 Resp: 2518  
Ion Ratio Lower Upper  
129 100  
127 0.0 54.1 100.5#





#59

1,2,3-Trichloropropane

Concen: 1.246 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028122.D

Acq: 14 Nov 2018 15:46

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 75 Resp: 9471

Ion Ratio Lower Upper

75 100

77 35.0 25.4 38.0

