

Data File : VU026873.D  
Acq On : 18 Sep 2018 19:30  
Operator : MD/SY  
Sample : J4896-12DL 10X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C08M5DL

Quant Time: Sep 19 07:39:37 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Sep 19 07:38:56 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 226888   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 214053   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 91138    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 57006    | 33.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 67.92%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 56928    | 39.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 79.26%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 86710    | 27.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 54.60%# |
| 21) 2-Butanone-d5              | 4.18    | 46    | 124563   | 111.84   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 111.84% |
| 24) Chloroform-d               | 4.65    | 84    | 133796   | 42.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.96%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 89102    | 45.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.90%  |
| 32) Benzene-d6                 | 5.34    | 84    | 255603   | 42.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.22%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 89282    | 46.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 92.38%  |
| 41) Toluene-d8                 | 7.57    | 98    | 209475   | 38.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 77.30%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 36449    | 42.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 84.48%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 84250    | 110.91   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 110.91% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 131433   | 48.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.54%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 91485    | 48.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.50%  |

#### Target Compounds

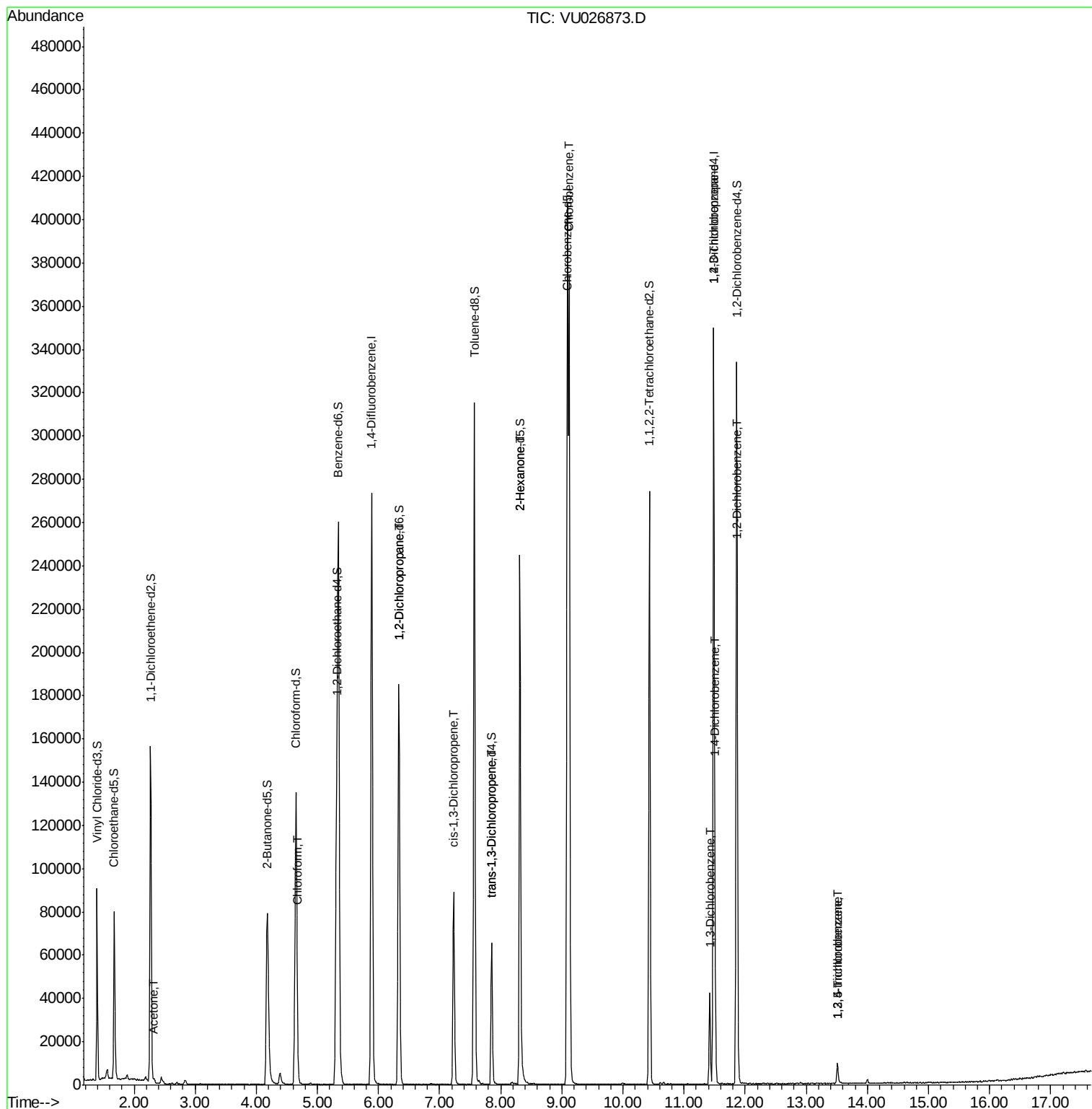
|                               |       |     |        |              | Qvalue |
|-------------------------------|-------|-----|--------|--------------|--------|
| 13) Acetone                   | 2.32  | 43  | 1076   | 0.983 ug/L   | 87     |
| 25) Chloroform                | 4.68  | 83  | 1857   | 0.587 ug/L   | 90     |
| 37) 1,2-Dichloropropane       | 6.33  | 63  | 9259   | 5.079 ug/L # | 86     |
| 39) cis-1,3-Dichloropropene   | 7.23  | 75  | 2031   | 0.789 ug/L # | 65     |
| 44) trans-1,3-Dichloropropene | 7.85  | 75  | 1543   | 0.640 ug/L # | 74     |
| 48) 2-Hexanone                | 8.31  | 43  | 9975   | 5.709 ug/L # | 66     |
| 51) Chlorobenzene             | 9.12  | 112 | 195951 | 43.000 ug/L  | 99     |
| 59) 1,2,3-Trichloropropane    | 11.48 | 75  | 14426  | 6.606 ug/L   | 89     |
| 62) 1,3-Dichlorobenzene       | 11.42 | 146 | 18625  | 6.704 ug/L   | 96     |
| 63) 1,4-Dichlorobenzene       | 11.51 | 146 | 14891  | 4.867 ug/L   | 99     |
| 65) 1,2-Dichlorobenzene       | 11.88 | 146 | 3073   | 0.999 ug/L # | 90     |
| 67) 1,3,5-Trichlorobenzene    | 13.51 | 180 | 4177   | 1.943 ug/L   | 99     |
| 68) 1,2,4-trichlorobenzene    | 13.51 | 180 | 4177   | 2.255 ug/L   | 100    |

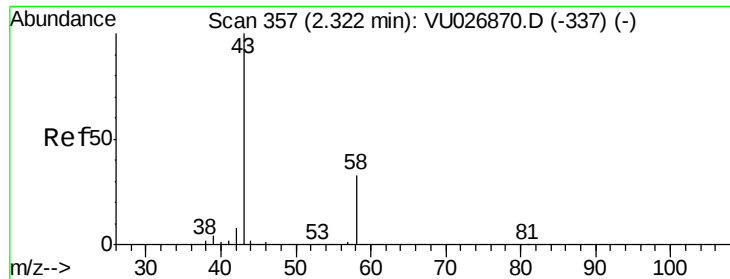
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 0.983 ug/L

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

Lab File: VU026873.D

Acq: 18 Sep 2018 19:30

Instrument :

MSVOA\_U

ClientSampleId :

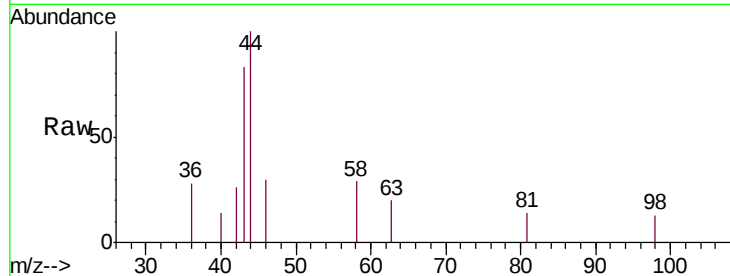
C08M5DL

Tgt Ion: 43 Resp: 1076

Ion Ratio Lower Upper

43 100

58 24.8 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

600

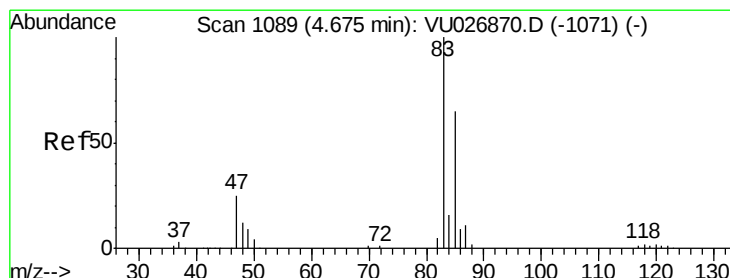
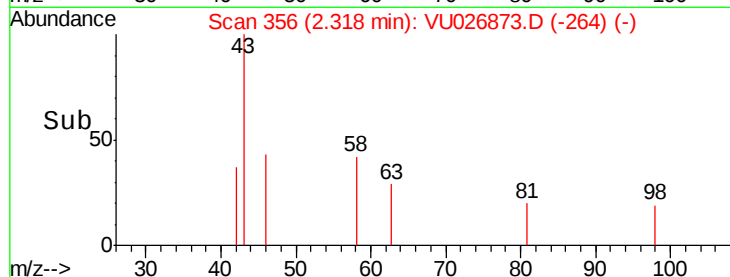
400

200

0

Time-->

2.28 2.30 2.32 2.34 2.36



#25

Chloroform

Concen: 0.587 ug/L

RT: 4.68 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VU026873.D

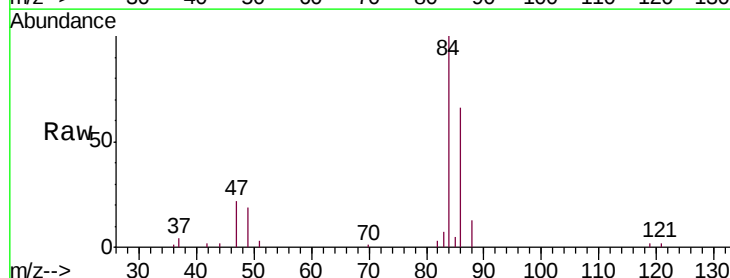
Acq: 18 Sep 2018 19:30

Tgt Ion: 83 Resp: 1857

Ion Ratio Lower Upper

83 100

85 71.2 44.4 82.5



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

4.68

800

600

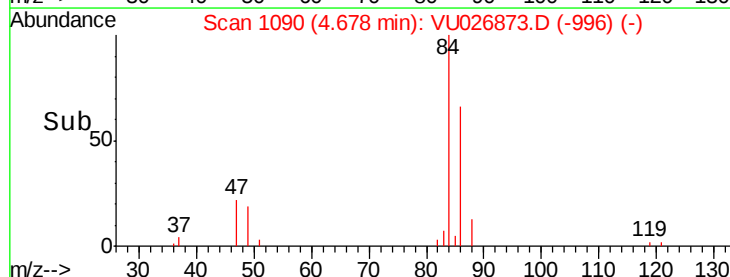
400

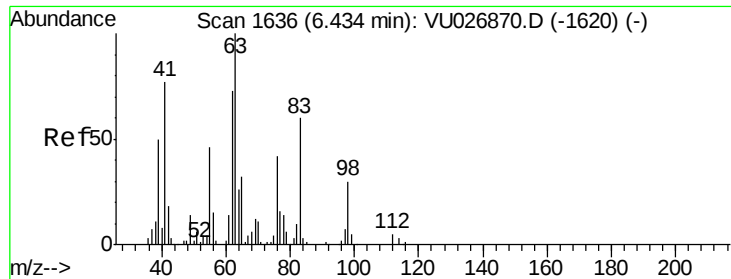
200

0

Time-->

4.60 4.65 4.70





#37

1,2-Dichloropropane

Concen: 5.079 ug/L

RT: 6.33 min Scan# 1604

Delta R.T. -0.10 min

Lab File: VU026873.D

Acq: 18 Sep 2018 19:30

Instrument :

MSVOA\_U

ClientSampleId :

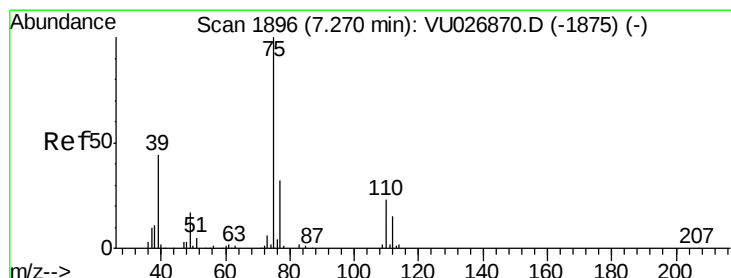
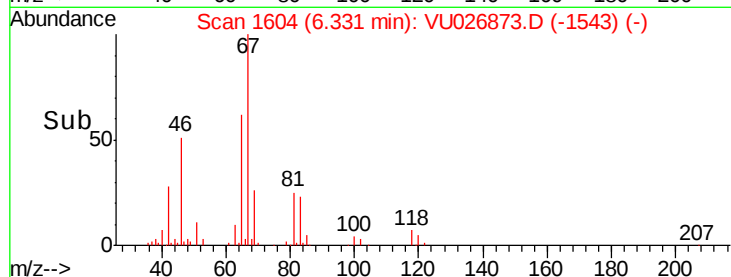
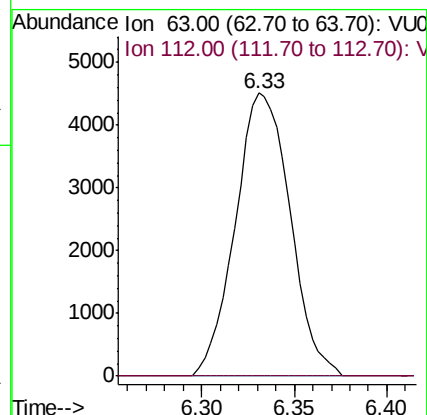
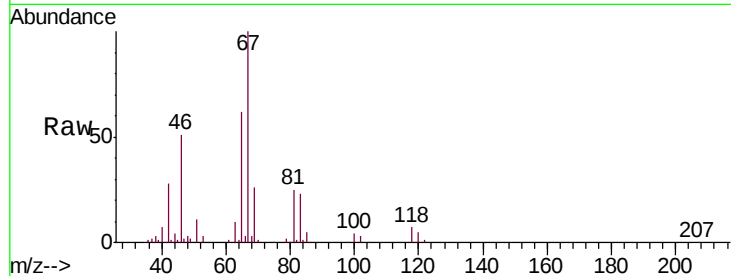
C08M5DL

Tgt Ion: 63 Resp: 9259

Ion Ratio Lower Upper

63 100

112 0.0 3.7 5.5#



#39

cis-1,3-Dichloropropene

Concen: 0.789 ug/L

RT: 7.23 min Scan# 1883

Delta R.T. -0.04 min

Lab File: VU026873.D

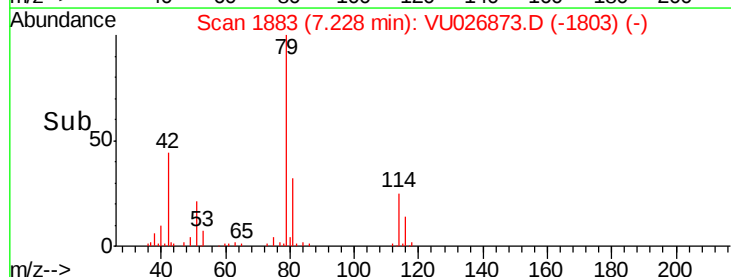
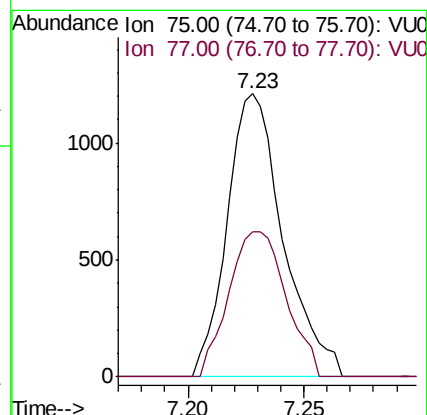
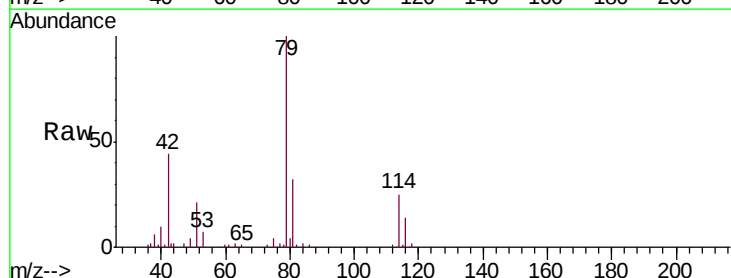
Acq: 18 Sep 2018 19:30

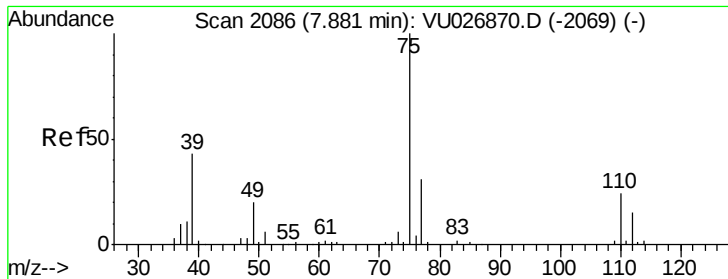
Tgt Ion: 75 Resp: 2031

Ion Ratio Lower Upper

75 100

77 51.2 22.1 41.1#





#44

trans-1,3-Dichloropropene

Concen: 0.640 ug/L

RT: 7.85 min Scan# 2077

Delta R.T. -0.03 min

Lab File: VU026873.D

Acq: 18 Sep 2018 19:30

Instrument :

MSVOA\_U

ClientSampleId :

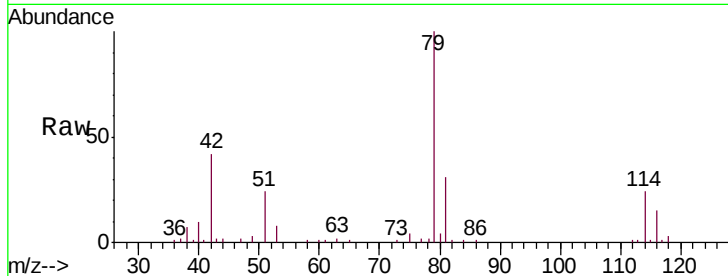
C08M5DL

Tgt Ion: 75 Resp: 1543

Ion Ratio Lower Upper

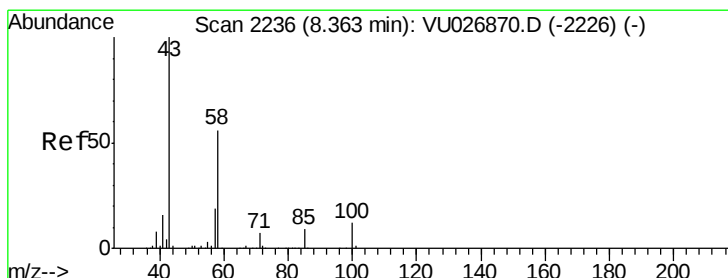
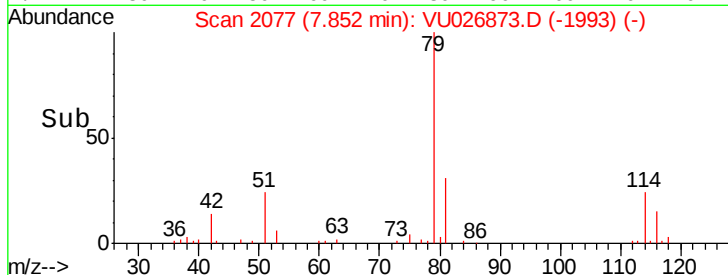
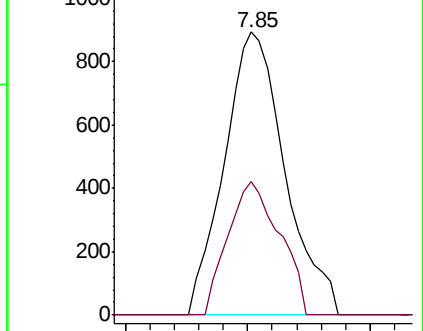
75 100

77 47.1 22.8 42.4#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#48

2-Hexanone

Concen: 5.709 ug/L

RT: 8.31 min Scan# 2221

Delta R.T. -0.05 min

Lab File: VU026873.D

Acq: 18 Sep 2018 19:30

Tgt Ion: 43 Resp: 9975

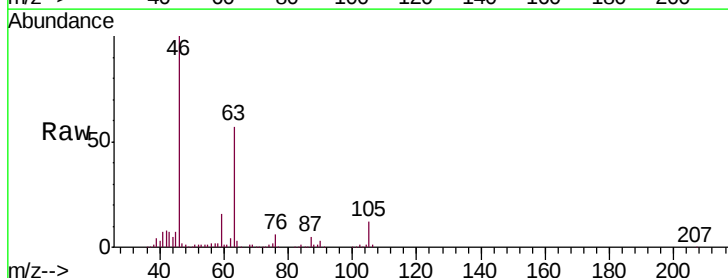
Ion Ratio Lower Upper

43 100

58 28.2 44.9 67.3#

57 30.8 15.4 23.2#

100 1.2 10.2 15.4#

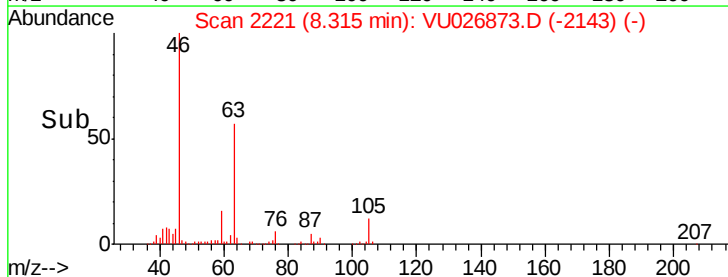
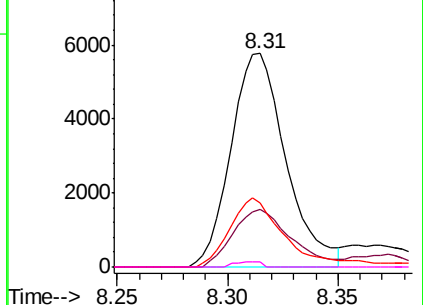


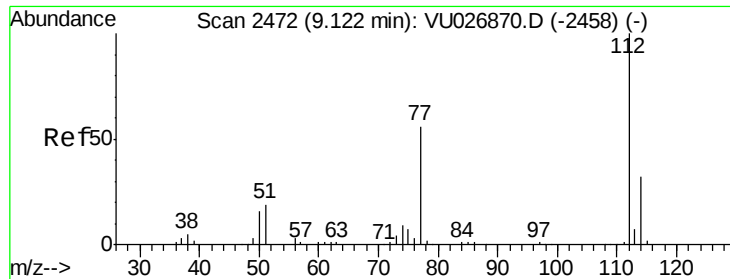
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

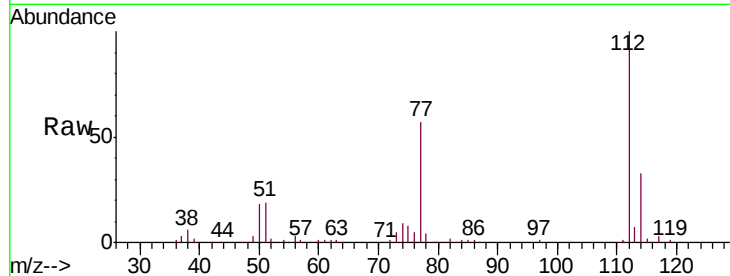




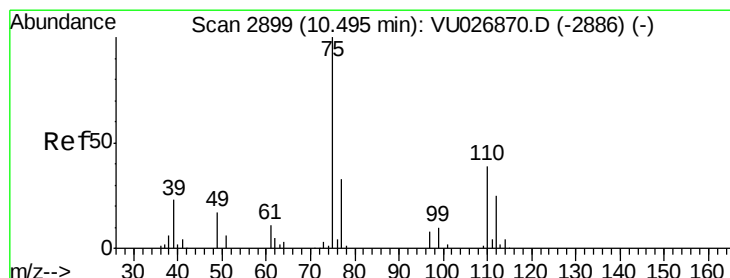
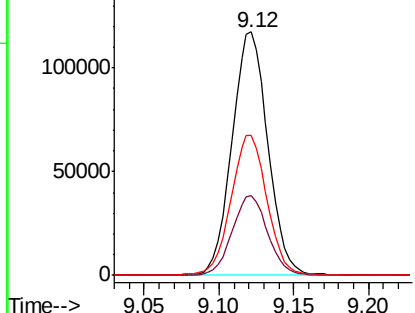
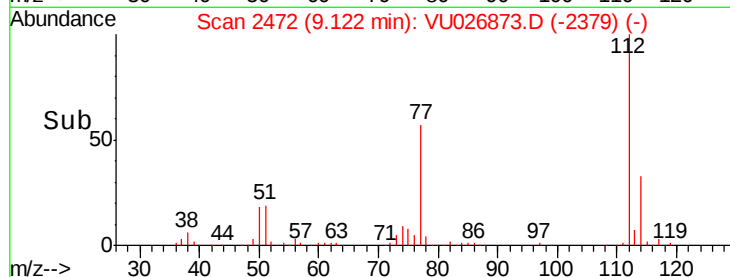
#51  
Chlorobenzene  
Concen: 43.000 ug/L  
RT: 9.12 min Scan# 2472  
Delta R.T. -0.00 min  
Lab File: VU026873.D  
Acq: 18 Sep 2018 19:30

Instrument :  
MSVOA\_U  
ClientSampleId :  
C08M5DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.6  | 22.3  | 41.5  |
| 77      | 57.5  | 45.1  | 67.7  |

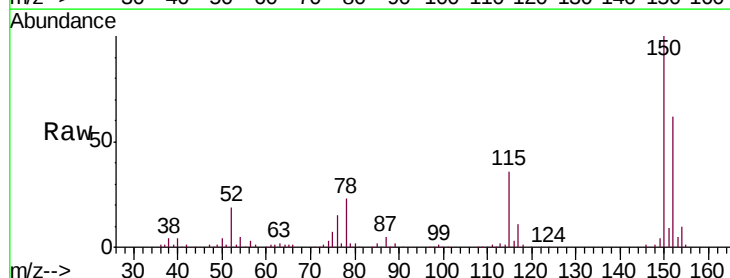


Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): V

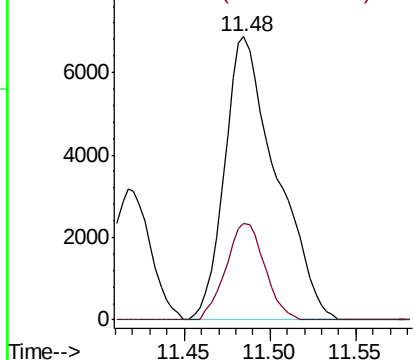
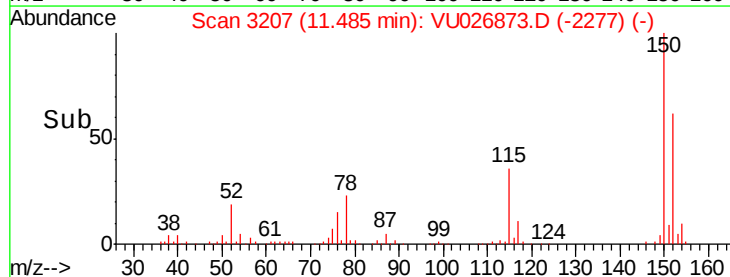


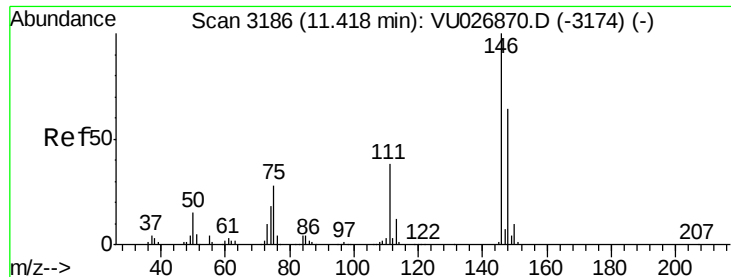
#59  
1,2,3-Trichloropropane  
Concen: 6.606 ug/L  
RT: 11.48 min Scan# 3207  
Delta R.T. 0.99 min  
Lab File: VU026873.D  
Acq: 18 Sep 2018 19:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 25.5  | 25.5  | 38.3  |



Abundance Ion 75.00 (74.70 to 75.70): VU0  
Ion 77.00 (76.70 to 77.70): VU0





#62

1,3-Dichlorobenzene

Concen: 6.704 ug/L

RT: 11.42 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VU026873.D

Acq: 18 Sep 2018 19:30

Instrument :

MSVOA\_U

ClientSampleId :

C08M5DL

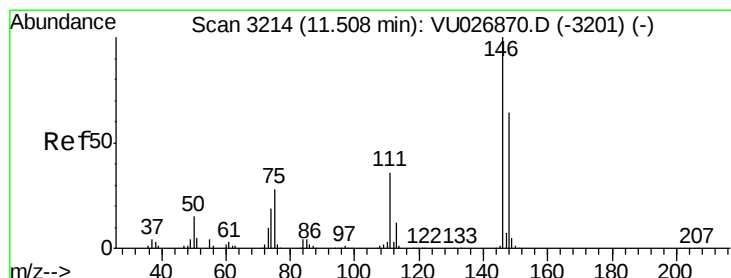
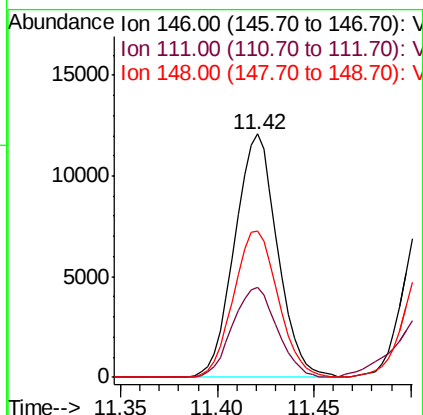
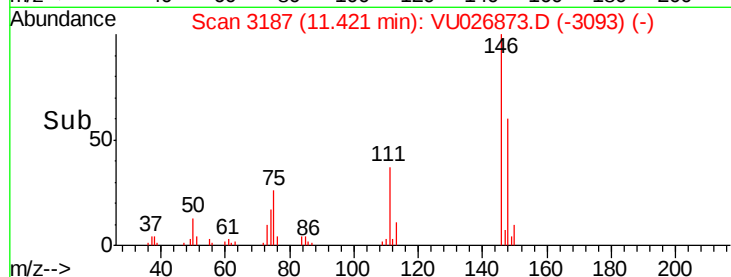
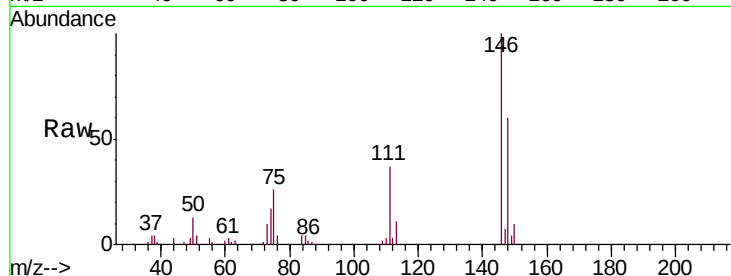
Tgt Ion:146 Resp: 18625

Ion Ratio Lower Upper

146 100

111 36.8 26.7 49.7

148 60.2 44.9 83.5



#63

1,4-Dichlorobenzene

Concen: 4.867 ug/L

RT: 11.51 min Scan# 3215

Delta R.T. 0.00 min

Lab File: VU026873.D

Acq: 18 Sep 2018 19:30

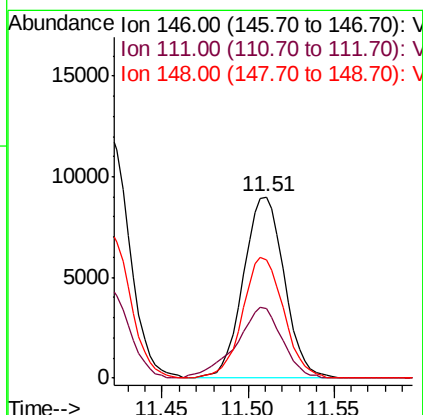
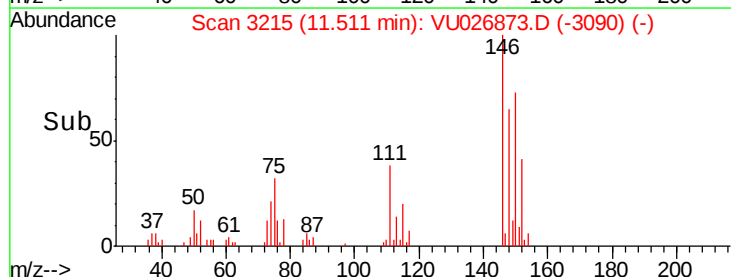
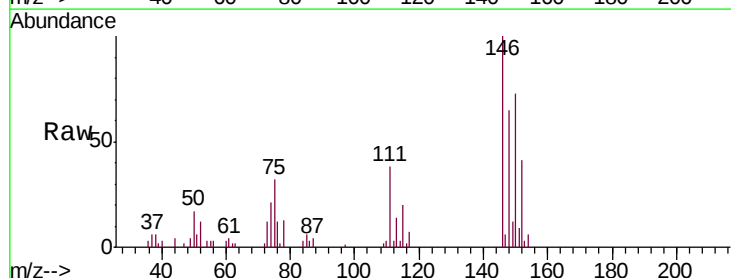
Tgt Ion:146 Resp: 14891

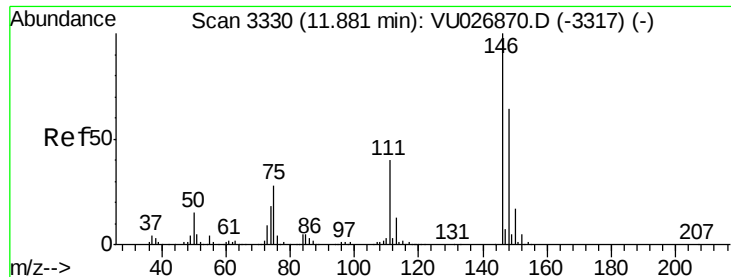
Ion Ratio Lower Upper

146 100

111 38.2 26.0 48.2

148 65.2 45.8 85.2

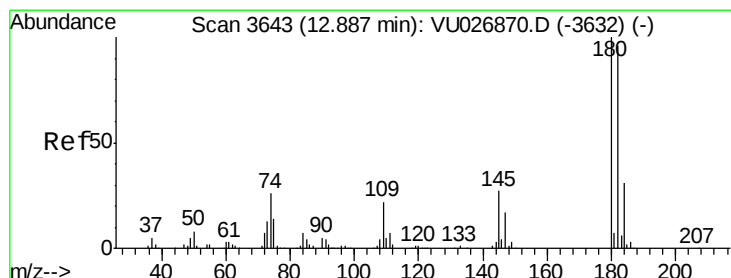
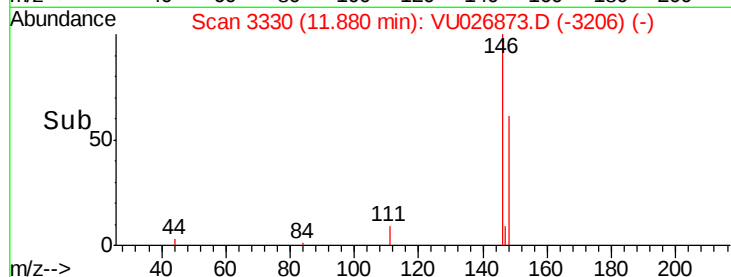
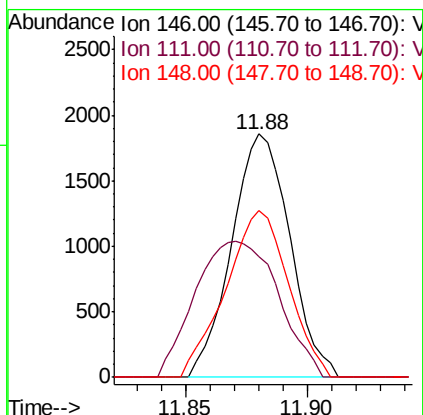
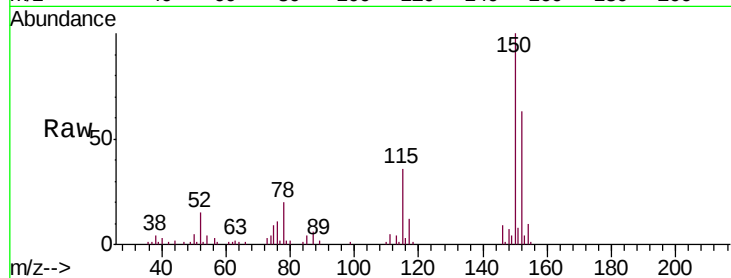




#65  
 1,2-Dichlorobenzene  
 Concen: 0.999 ug/L  
 RT: 11.88 min Scan# 3330  
 Delta R.T. -0.00 min  
 Lab File: VU026873.D  
 Acq: 18 Sep 2018 19:30

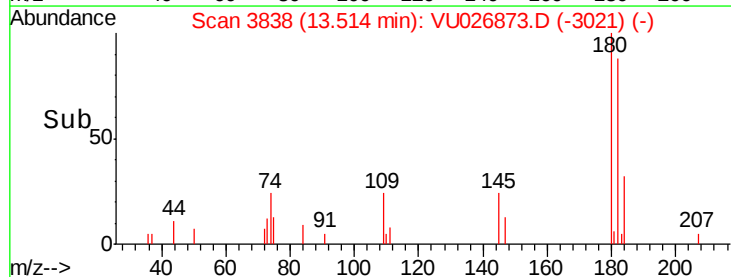
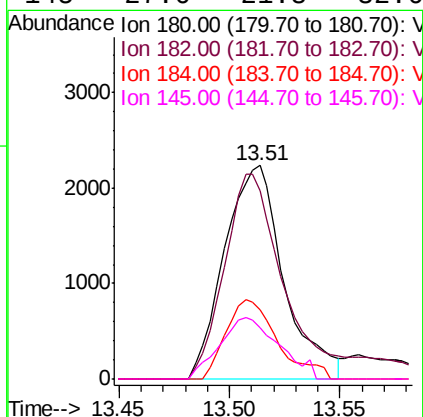
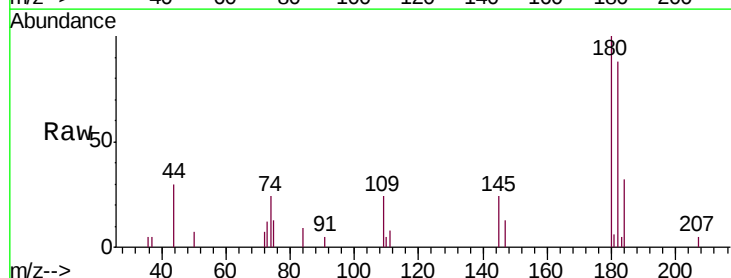
Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 C08M5DL

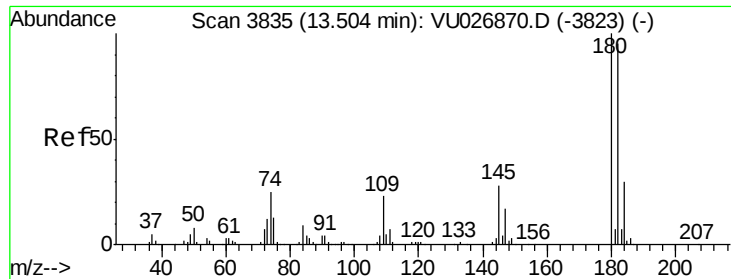
Tgt Ion:146 Resp: 3073  
 Ion Ratio Lower Upper  
 146 100  
 111 49.8 31.4 47.0#  
 148 68.7 51.4 77.2



#67  
 1,3,5-Trichlorobenzene  
 Concen: 1.943 ug/L  
 RT: 13.51 min Scan# 3838  
 Delta R.T. 0.63 min  
 Lab File: VU026873.D  
 Acq: 18 Sep 2018 19:30

Tgt Ion:180 Resp: 4177  
 Ion Ratio Lower Upper  
 180 100  
 182 95.5 76.7 115.1  
 184 31.0 24.2 36.4  
 145 27.6 21.8 32.6

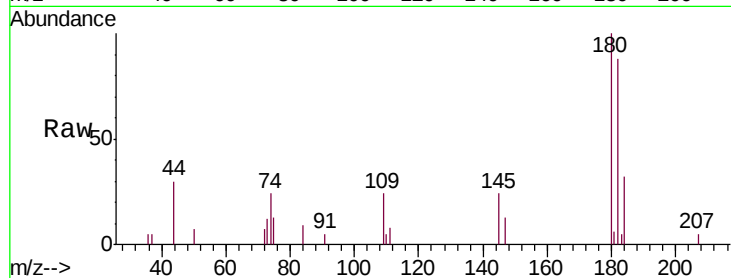




#68  
 1,2,4-trichlorobenzene  
 Concen: 2.255 ug/L  
 RT: 13.51 min Scan# 3838  
 Delta R.T. 0.01 min  
 Lab File: VU026873.D  
 Acq: 18 Sep 2018 19:30

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C08M5DL

Tgt Ion:180 Resp: 4177  
 Ion Ratio Lower Upper  
 180 100  
 182 95.5 76.8 115.2  
 145 27.6 22.2 33.2



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V

