

Data File : VV008425.D  
Acq On : 26 Oct 2018 12:07  
Operator : SY/MD  
Sample : J5670-04DL 5X  
Misc : 5.0 mL/MSVOA\_V/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
ETBP5DL

Quant Time: Oct 27 04:45:29 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102318WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Oct 27 04:42:32 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 188454   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 170287   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 69199    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 57659    | 55.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 110.52% |
| 7) Chloroethane-d5             | 1.56    | 69    | 42805    | 56.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 113.64% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 75936    | 40.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 80.58%  |
| 21) 2-Butanone-d5              | 3.94    | 46    | 121166   | 106.85   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 106.85% |
| 24) Chloroform-d               | 4.41    | 84    | 134884   | 52.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.82% |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 93688    | 54.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 108.90% |
| 32) Benzene-d6                 | 5.10    | 84    | 276521   | 56.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 113.96% |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 94541    | 56.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 112.26% |
| 41) Toluene-d8                 | 7.36    | 98    | 253371   | 57.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 115.00% |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 45151    | 55.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 110.34% |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 94330    | 107.25   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 107.25% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 121868   | 53.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 106.84% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 81005    | 57.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 114.46% |

#### Target Compounds

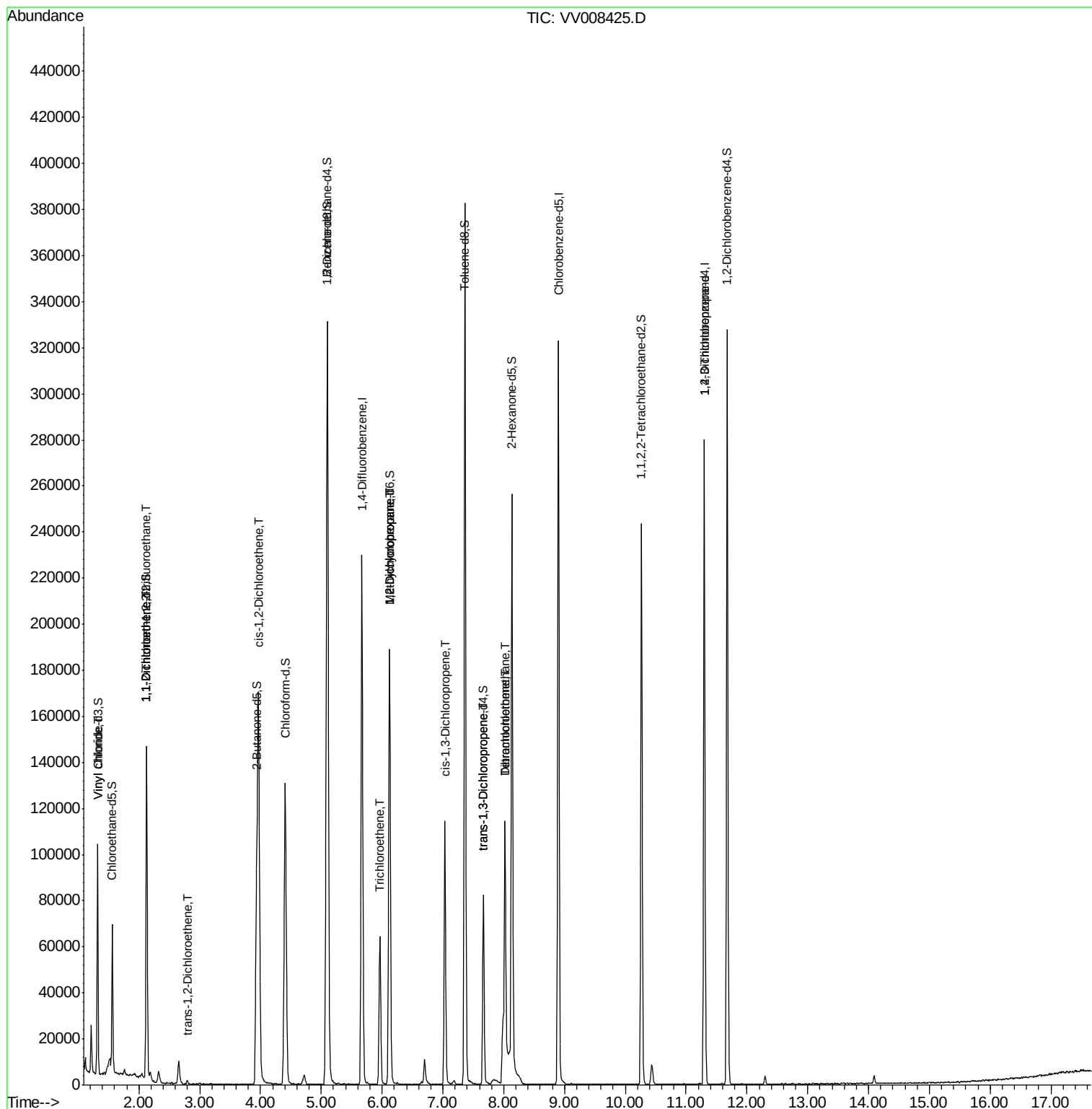
|                                |       |     |       |               | Qvalue |
|--------------------------------|-------|-----|-------|---------------|--------|
| 5) Vinyl chloride              | 1.33  | 62  | 4314  | 3.230 ug/L #  | 69     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13  | 101 | 567   | 0.631 ug/L #  | 20     |
| 12) 1,1-Dichloroethene         | 2.13  | 96  | 851   | 1.006 ug/L #  | 1      |
| 17) trans-1,2-Dichloroethene   | 2.79  | 96  | 580   | 0.450 ug/L    | 88     |
| 20) cis-1,2-Dichloroethene     | 3.97  | 96  | 81262 | 55.340 ug/L   | 96     |
| 34) Trichloroethene            | 5.96  | 95  | 23459 | 16.461 ug/L   | 99     |
| 35) Methylcyclohexane          | 6.12  | 83  | 21307 | 8.794 ug/L #  | 17     |
| 37) 1,2-Dichloropropane        | 6.12  | 63  | 10128 | 6.588 ug/L #  | 89     |
| 39) cis-1,3-Dichloropropene    | 7.04  | 75  | 2650  | 1.096 ug/L #  | 53     |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75  | 1812  | 0.801 ug/L #  | 82     |
| 46) Tetrachloroethene          | 8.02  | 164 | 22136 | 23.827 ug/L   | 98     |
| 49) Dibromochloromethane       | 8.02  | 129 | 22722 | 15.556 ug/L # | 10     |
| 59) 1,2,3-Trichloropropane     | 11.30 | 75  | 9088  | 4.717 ug/L    | 90     |

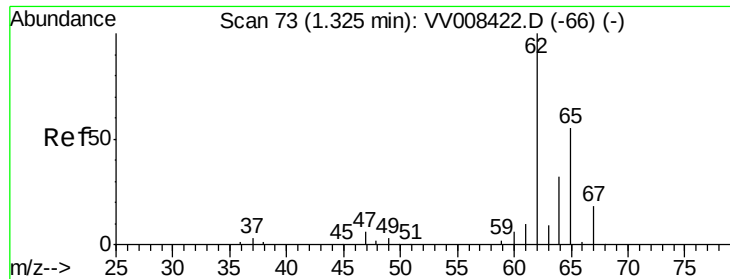
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : J5670-04DL 5X  
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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
ETBP5DL

Quant Time: Oct 27 04:45:29 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102318WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Oct 27 04:42:32 2018  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.230 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008425.D

Acq: 26 Oct 2018 12:07

Instrument :

MSVOA\_V

ClientSampleId :

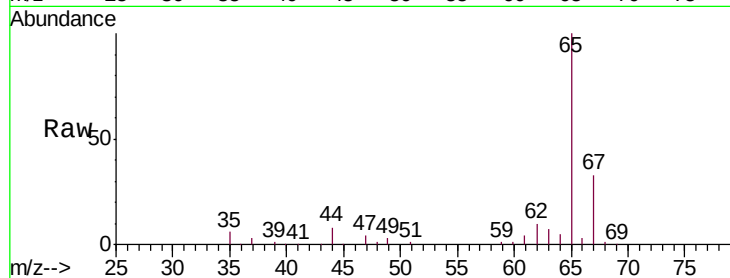
ETBP5DL

Tgt Ion: 62 Resp: 4314

Ion Ratio Lower Upper

62 100

64 53.0 24.4 45.4#



Abundance Ion 62.00 (61.70 to 62.70): VV008422.D (-66) (-)

Ion 64.00 (63.70 to 64.70): VV008422.D (-66) (-)

1.33

4000

3000

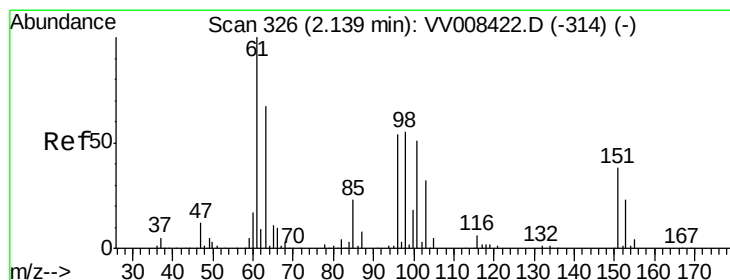
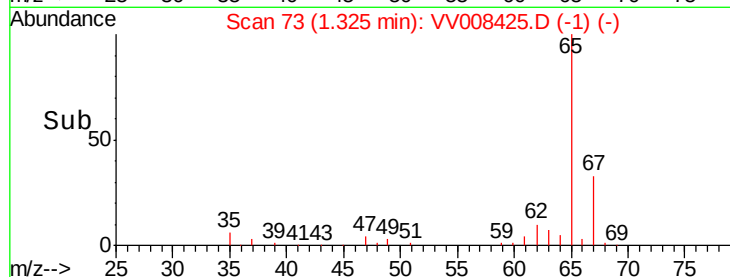
2000

1000

0

1.30 1.32 1.34 1.36

Time-->



#10

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

Concen: 0.631 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV008425.D

Acq: 26 Oct 2018 12:07

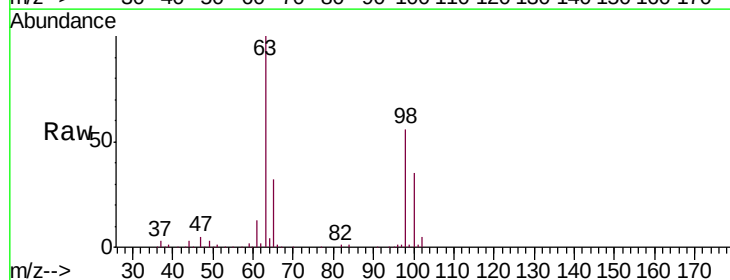
Tgt Ion: 101 Resp: 567

Ion Ratio Lower Upper

101 100

85 0.0 35.6 53.4#

151 0.0 58.1 87.1#



Abundance Ion 101.00 (100.70 to 101.70): VV008422.D (-314) (-)

Ion 85.00 (84.70 to 85.70): VV008422.D (-314) (-)

Ion 151.00 (150.70 to 151.70): VV008422.D (-314) (-)

2.13

600

500

400

300

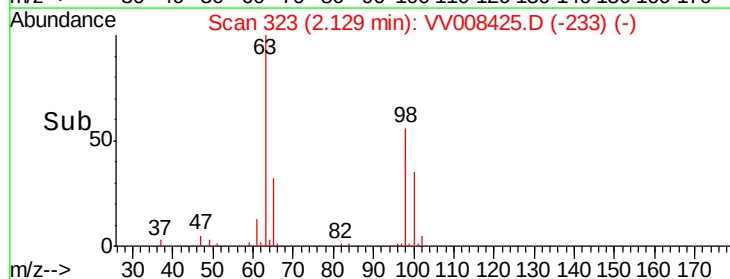
200

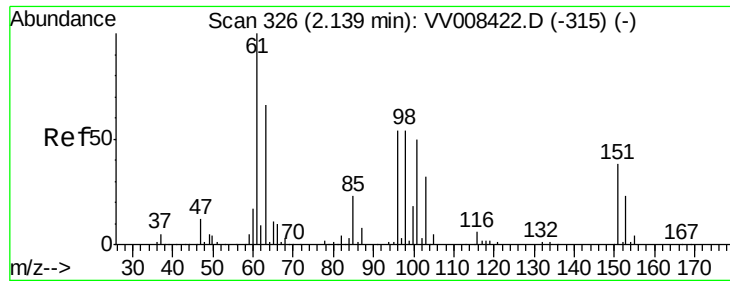
100

0

2.10 2.12 2.14

Time-->

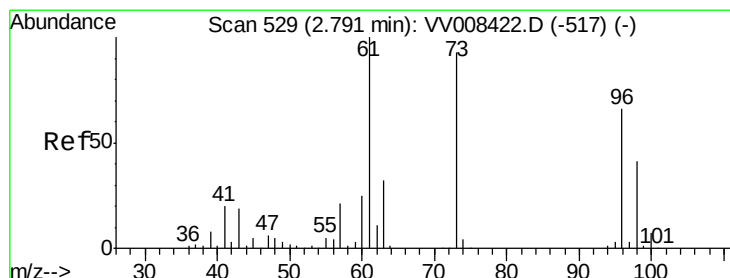
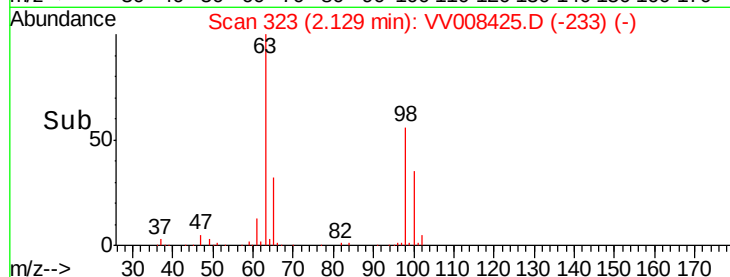
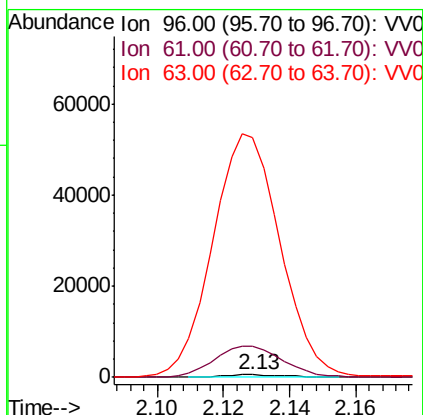
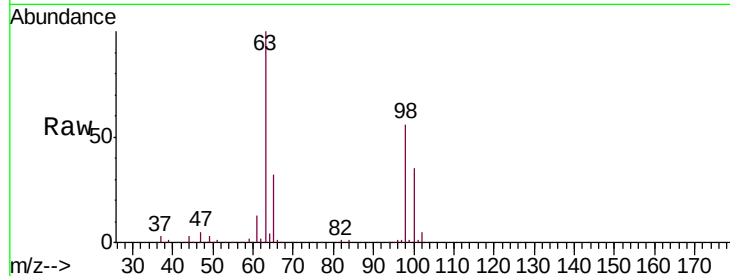




#12  
 1,1-Dichloroethene  
 Concen: 1.006 ug/L  
 RT: 2.13 min Scan# 323  
 Delta R.T. -0.01 min  
 Lab File: VV008425.D  
 Acq: 26 Oct 2018 12:07

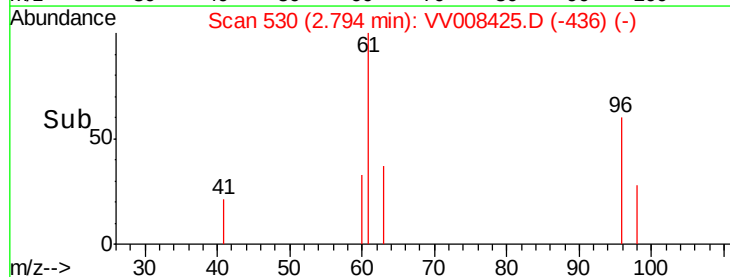
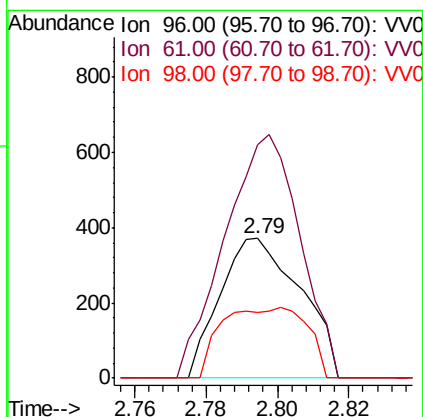
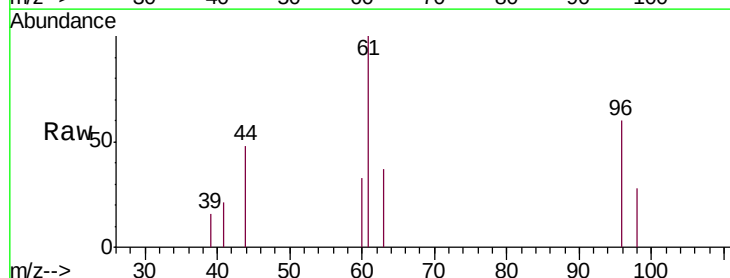
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ETBP5DL

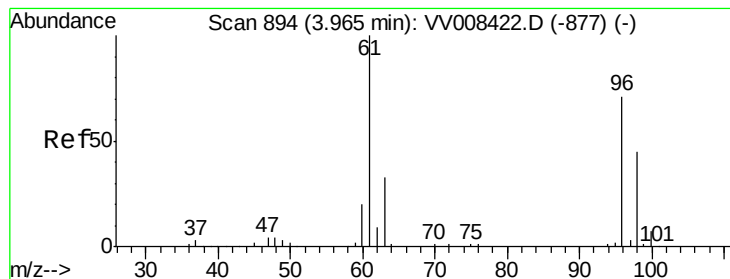
Tgt Ion: 96 Resp: 851  
 Ion Ratio Lower Upper  
 96 100  
 61 1207.4 130.3 242.1#  
 63 9313.5 84.4 156.8#



#17  
 trans-1,2-Dichloroethene  
 Concen: 0.450 ug/L  
 RT: 2.79 min Scan# 530  
 Delta R.T. 0.00 min  
 Lab File: VV008425.D  
 Acq: 26 Oct 2018 12:07

Tgt Ion: 96 Resp: 580  
 Ion Ratio Lower Upper  
 96 100  
 61 167.1 108.6 201.6  
 98 47.4 44.3 82.3



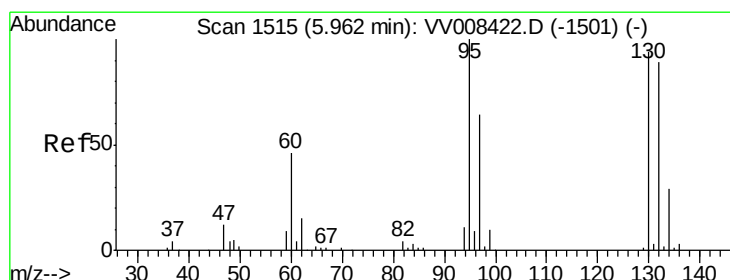
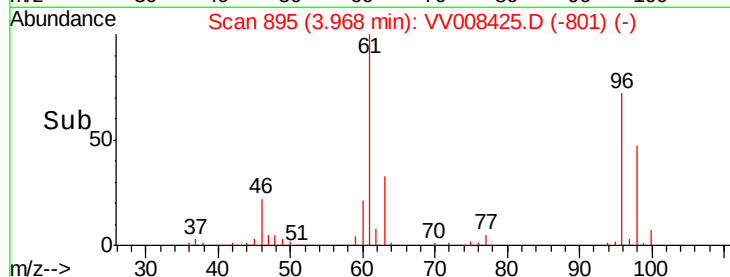
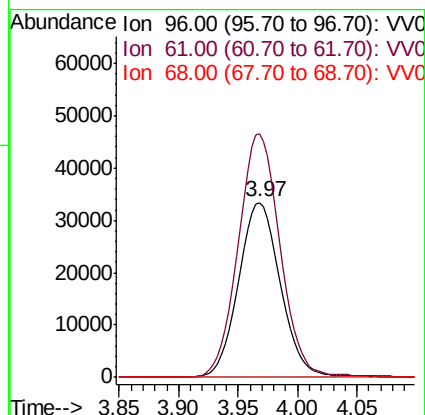
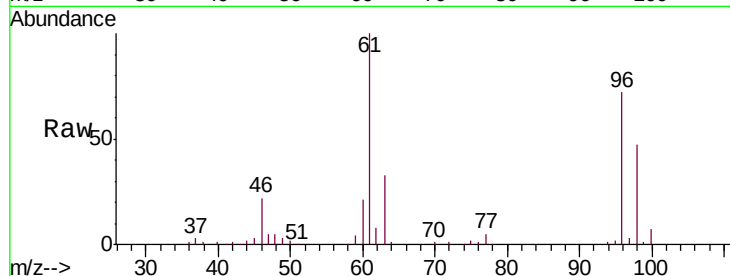


#20

cis-1,2-Dichloroethene  
 Concen: 55.340 ug/L  
 RT: 3.97 min Scan# 895  
 Delta R.T. 0.00 min  
 Lab File: VV008425.D  
 Acq: 26 Oct 2018 12:07

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ETBP5DL

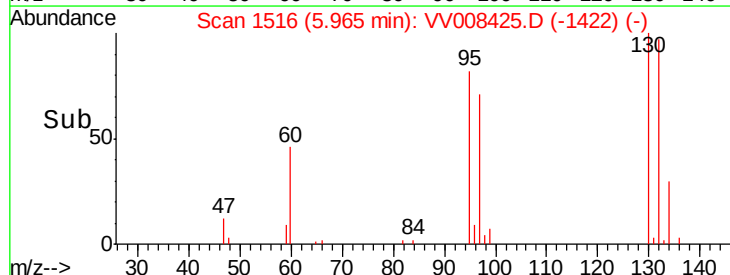
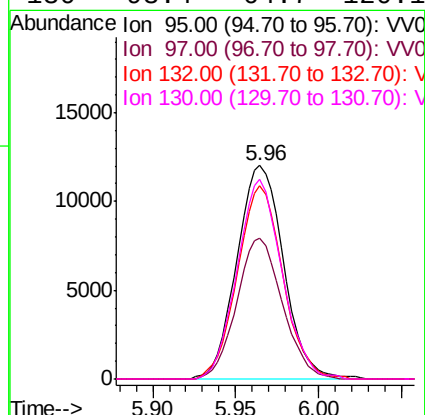
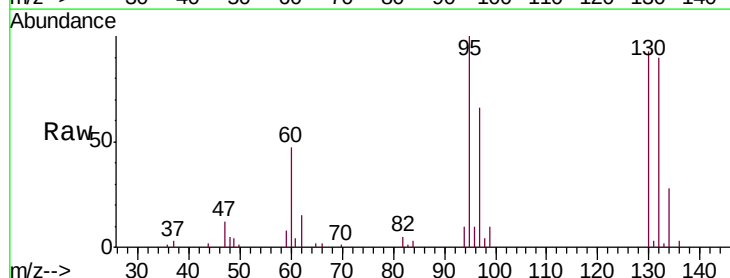
Tgt Ion: 96 Resp: 81262  
 Ion Ratio Lower Upper  
 96 100  
 61 139.3 100.9 187.5  
 68 0.0 0.0 0.0

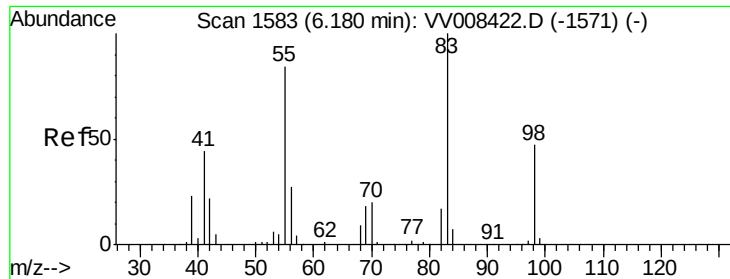


#34

Trichloroethene  
 Concen: 16.461 ug/L  
 RT: 5.96 min Scan# 1516  
 Delta R.T. 0.00 min  
 Lab File: VV008425.D  
 Acq: 26 Oct 2018 12:07

Tgt Ion: 95 Resp: 23459  
 Ion Ratio Lower Upper  
 95 100  
 97 65.8 45.2 84.0  
 132 90.3 63.8 118.6  
 130 93.4 64.7 120.1

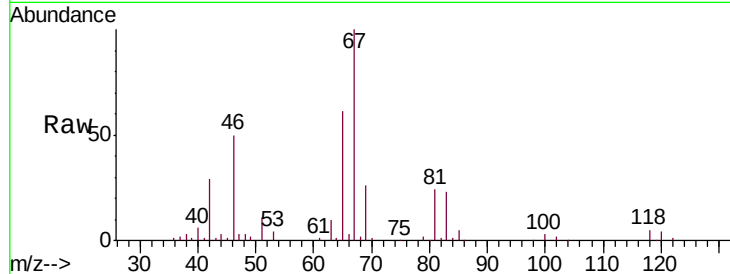




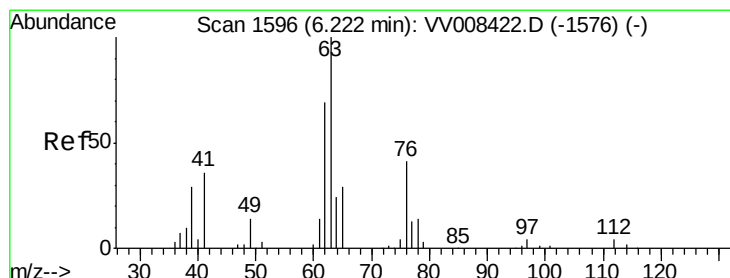
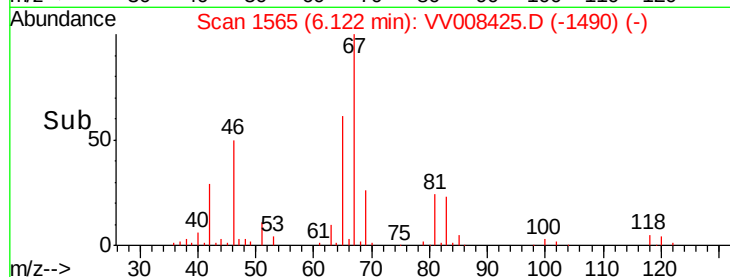
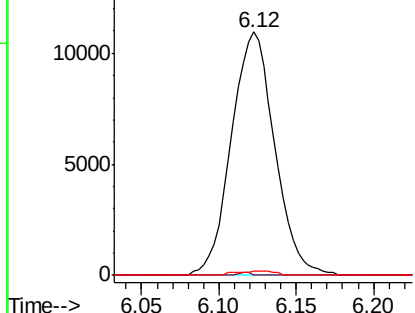
#35  
Methylcyclohexane  
Concen: 8.794 ug/L  
RT: 6.12 min Scan# 1565  
Delta R.T. -0.06 min  
Lab File: VV008425.D  
Acq: 26 Oct 2018 12:07

Instrument :  
MSVOA\_V  
ClientSampleId :  
ETBP5DL

Tgt Ion: 83 Resp: 21307  
Ion Ratio Lower Upper  
83 100  
55 0.3 65.0 97.4#  
98 0.5 36.0 54.0#

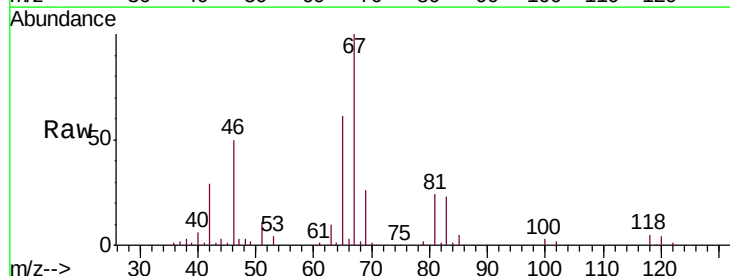


Abundance Ion 83.00 (82.70 to 83.70): VV0  
Ion 55.00 (54.70 to 55.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0

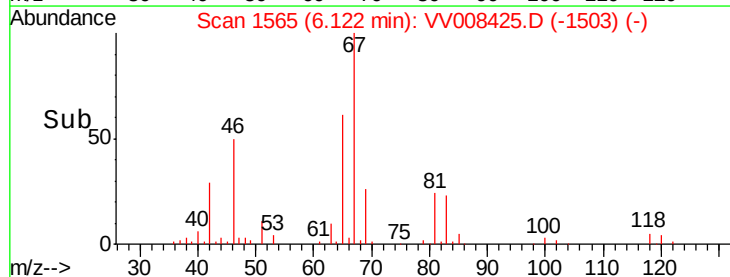
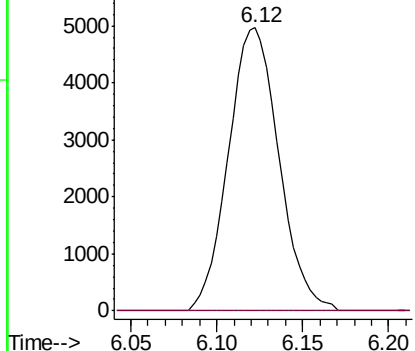


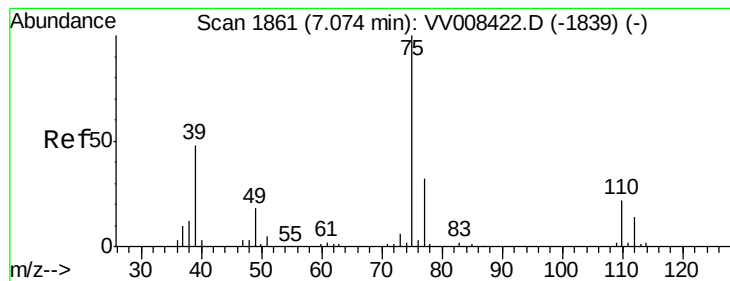
#37  
1,2-Dichloropropane  
Concen: 6.588 ug/L  
RT: 6.12 min Scan# 1565  
Delta R.T. -0.10 min  
Lab File: VV008425.D  
Acq: 26 Oct 2018 12:07

Tgt Ion: 63 Resp: 10128  
Ion Ratio Lower Upper  
63 100  
112 0.0 2.9 4.3#



Abundance Ion 63.00 (62.70 to 63.70): VV0  
Ion 112.00 (111.70 to 112.70): V





#39

cis-1,3-Dichloropropene

Concen: 1.096 ug/L

RT: 7.04 min Scan# 1849

Delta R.T. -0.04 min

Lab File: VV008425.D

Acq: 26 Oct 2018 12:07

Instrument :

MSVOA\_V

ClientSampleId :

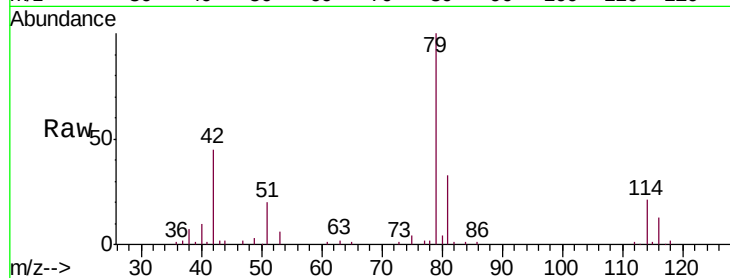
ETBP5DL

Tgt Ion: 75 Resp: 2650

Ion Ratio Lower Upper

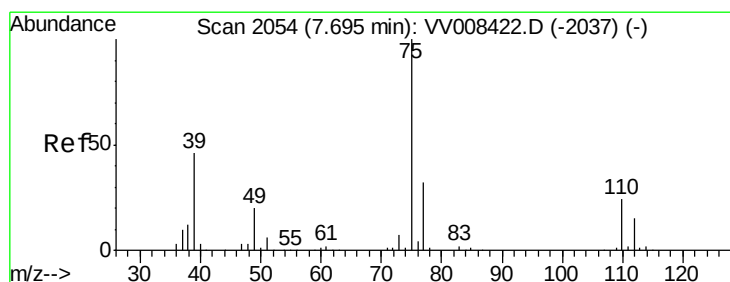
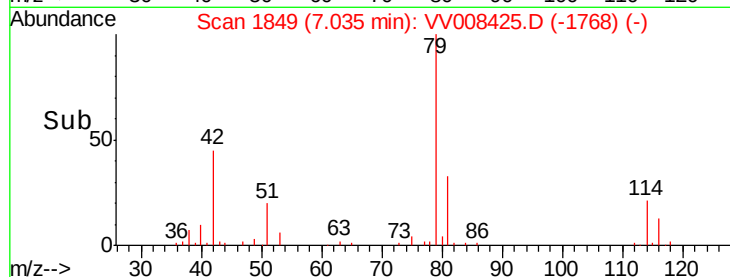
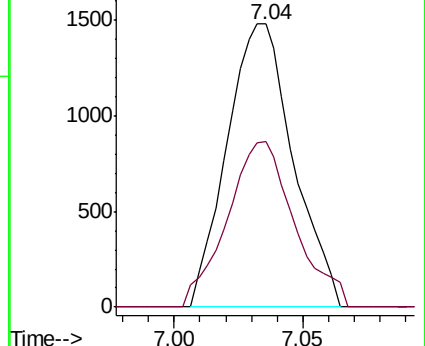
75 100

77 58.5 22.6 42.0#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.801 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.03 min

Lab File: VV008425.D

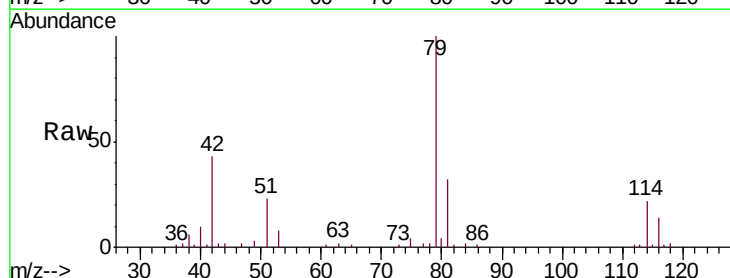
Acq: 26 Oct 2018 12:07

Tgt Ion: 75 Resp: 1812

Ion Ratio Lower Upper

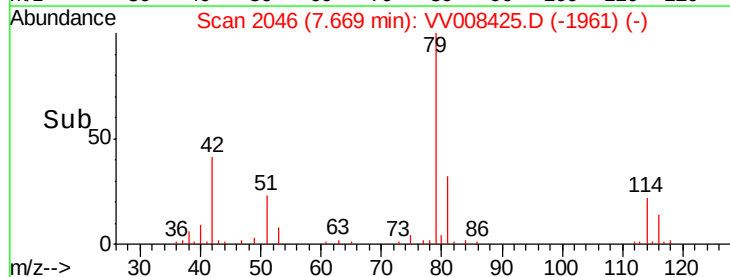
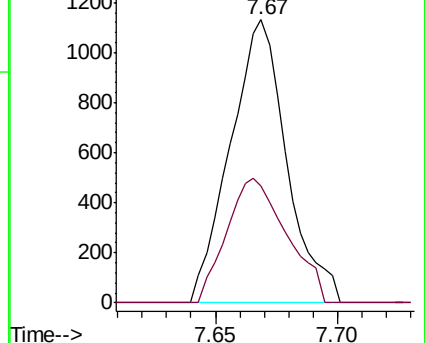
75 100

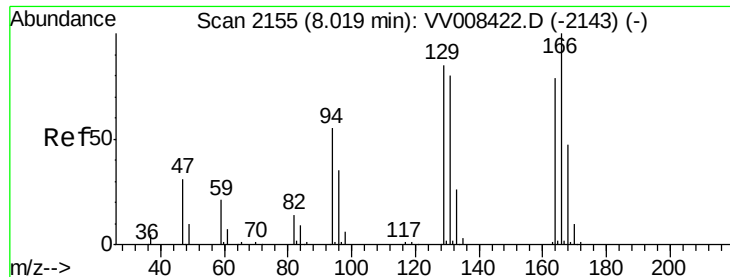
77 41.2 21.8 40.4#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

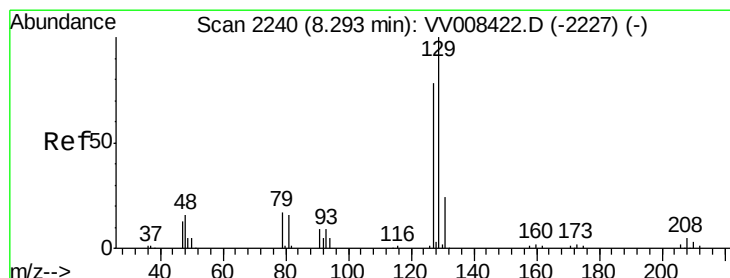
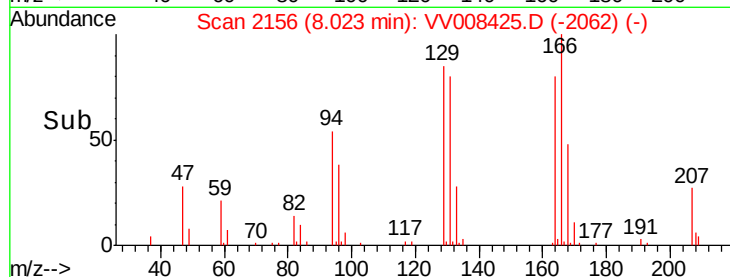
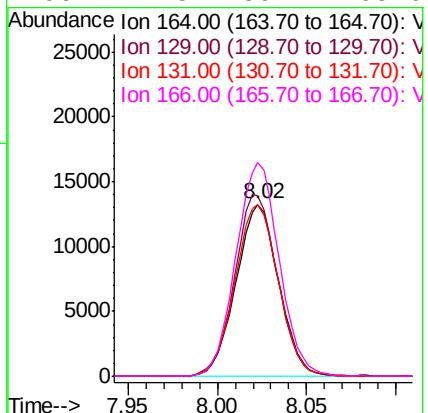
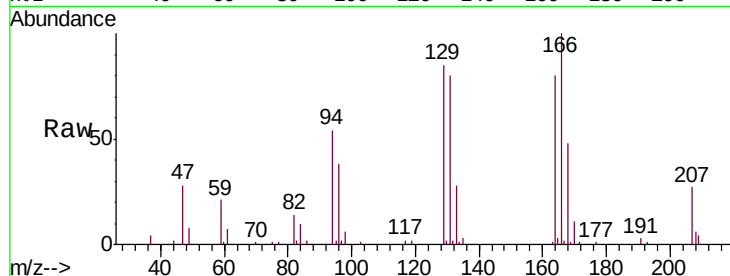




#46  
Tetrachloroethene  
Concen: 23.827 ug/L  
RT: 8.02 min Scan# 2156  
Delta R.T. 0.00 min  
Lab File: VV008425.D  
Acq: 26 Oct 2018 12:07

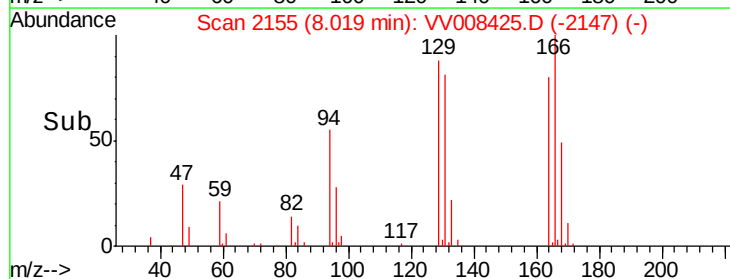
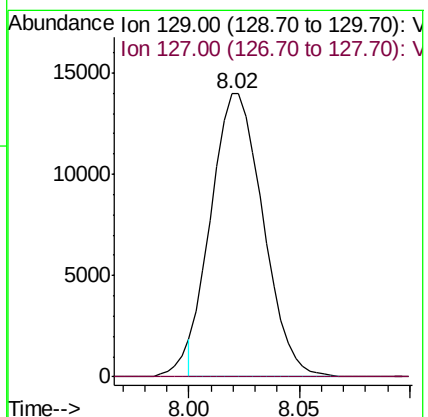
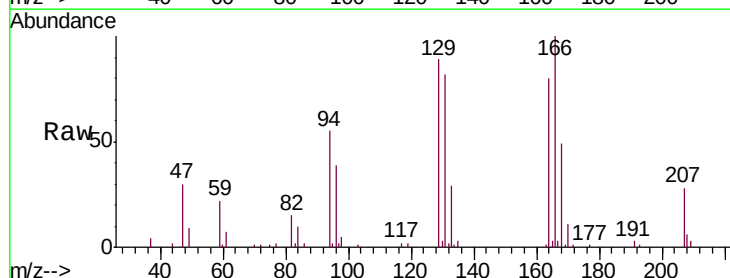
Instrument :  
MSVOA\_V  
ClientSampled :  
ETBP5DL

Tgt Ion:164 Resp: 22136  
Ion Ratio Lower Upper  
164 100  
129 105.5 75.0 139.2  
131 99.7 71.3 132.3  
166 124.5 89.2 165.6

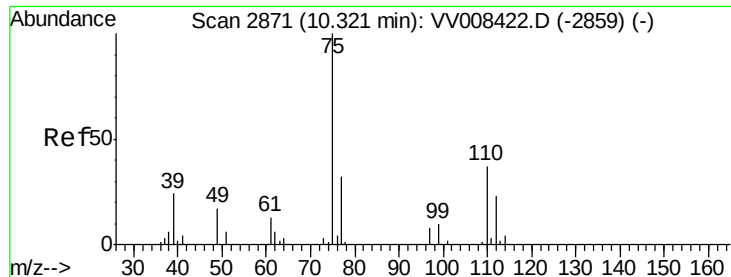


#49  
Dibromochloromethane  
Concen: 15.556 ug/L  
RT: 8.02 min Scan# 2155  
Delta R.T. -0.27 min  
Lab File: VV008425.D  
Acq: 26 Oct 2018 12:07

Tgt Ion:129 Resp: 22722  
Ion Ratio Lower Upper  
129 100  
127 0.0 54.9 101.9#







#59

1,2,3-Trichloropropane

Concen: 4.717 ug/L

RT: 11.30 min Scan# 3175

Delta R.T. 0.98 min

Lab File: VV008425.D

Acq: 26 Oct 2018 12:07

Instrument :

MSVOA\_V

ClientSampleId :

ETBP5DL

Tgt Ion: 75 Resp: 9088

Ion Ratio Lower Upper

75 100

77 38.0 25.8 38.8

