

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042920\  
 Data File : VV015805.D  
 Acq On : 29 Apr 2020 20:10  
 Operator : SY/MD  
 Sample : L2421-09  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Apr 30 01:43:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Apr 30 01:35:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 121845   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 120561   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 55899    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 37341    | 5.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 117.20% |
| 7) Chloroethane-d5             | 1.57   | 69    | 33483    | 5.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 109.20% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 54276    | 3.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 77.80%  |
| 20) 2-Butanone-d5              | 3.95   | 46    | 95371    | 46.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.30%  |
| 24) Chloroform-d               | 4.38   | 84    | 64803    | 4.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 41370    | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.60%  |
| 32) Benzene-d6                 | 5.07   | 84    | 136536   | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 42967    | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.40%  |
| 41) Toluene-d8                 | 7.34   | 98    | 121640   | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.00%  |
| 43) trans-1,3-Dichloropropene- | 7.65   | 79    | 13098    | 3.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 73.60%  |
| 46) 2-Hexanone-d5              | 8.12   | 63    | 67287    | 38.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 77.62%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 28636    | 4.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 83.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 44614    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.00%  |

## Target Compounds

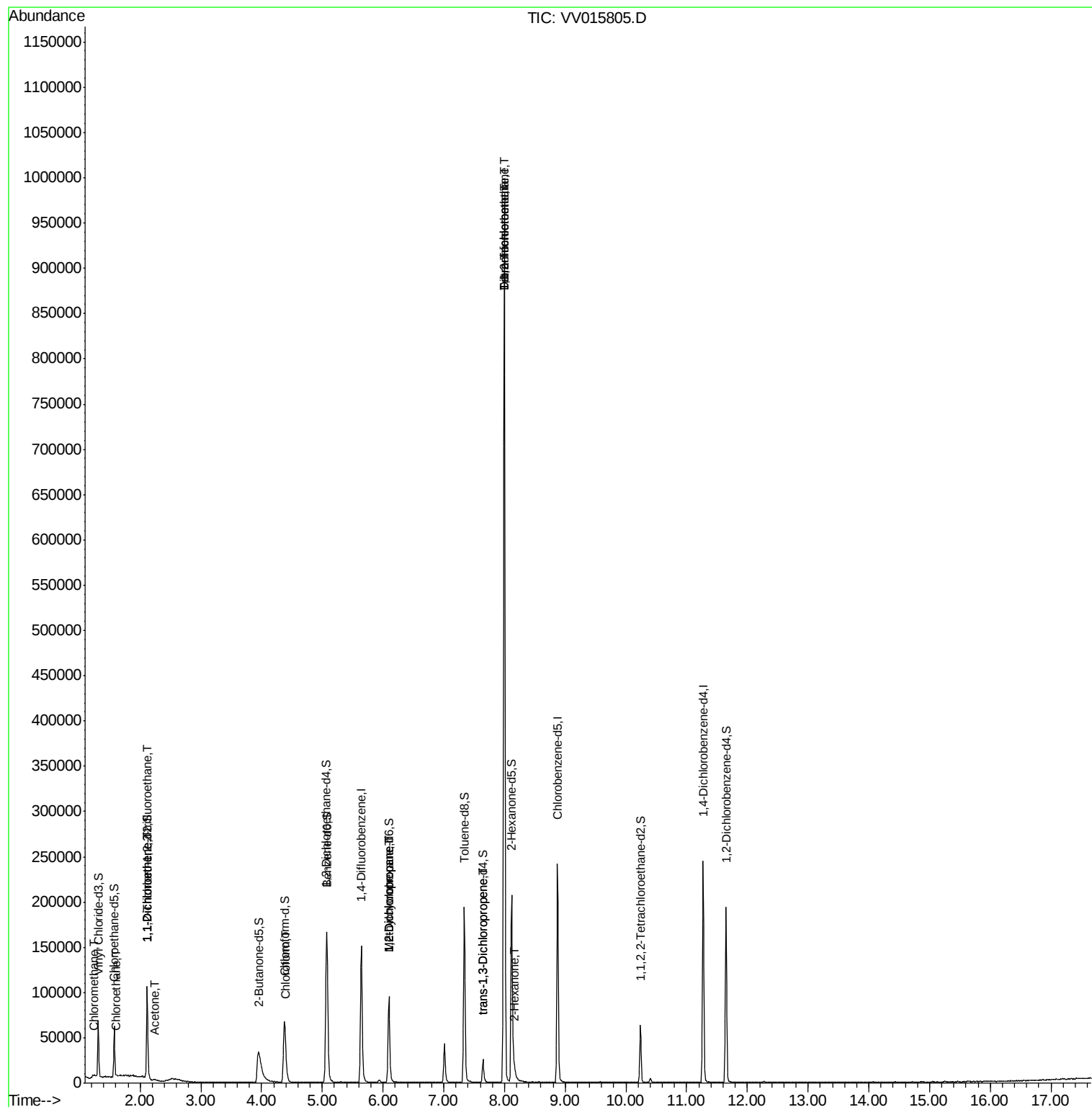
| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.24 | 50   | 734      | 0.081  | ug/L   | 95     |
| 8) Chloroethane                | 1.62 | 64   | 1723     | 0.272  | ug/L   | 87     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12 | 101  | 658      | 0.086  | ug/L # | 23     |
| 12) 1,1-Dichloroethene         | 2.12 | 96   | 704      | 0.099  | ug/L # | 1      |
| 13) Acetone                    | 2.23 | 43   | 2596     | 1.829  | ug/L   | 49     |
| 25) Chloroform                 | 4.41 | 83   | 11656    | 0.704  | ug/L   | 97     |
| 35) Methylcyclohexane          | 6.10 | 83   | 10506    | 0.720  | ug/L # | 16     |
| 37) 1,2-Dichloropropane        | 6.09 | 63   | 5473     | 0.625  | ug/L # | 86     |
| 44) trans-1,3-Dichloropropene  | 7.65 | 75   | 788      | 0.077  | ug/L   | 97     |
| 45) 1,1,2-Trichloroethane      | 7.99 | 97   | 2007     | 0.336  | ug/L # | 2      |
| 47) Tetrachloroethene          | 8.00 | 164  | 193198   | 28.207 | ug/L   | 98     |
| 48) 2-Hexanone                 | 8.17 | 43   | 6271     | 1.548  | ug/L # | 88     |
| 49) Dibromochloromethane       | 8.00 | 129  | 187103   | 30.296 | ug/L # | 12     |

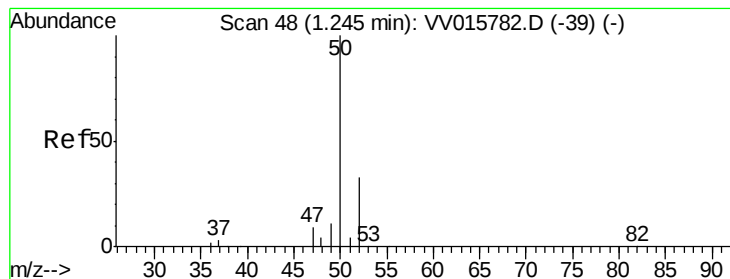
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042920\  
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ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Apr 30 01:43:28 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Apr 30 01:35:08 2020  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.081 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.00 min

Lab File: VV015805.D

Acq: 29 Apr 2020 20:10

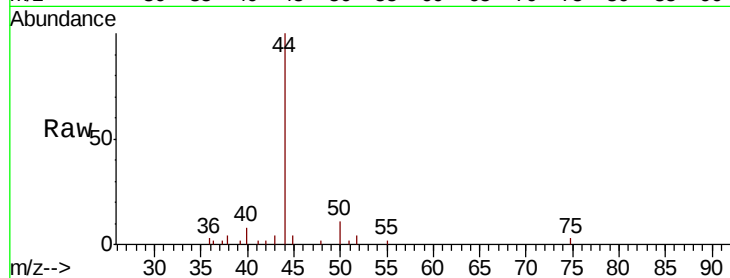
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 50 Resp: 734

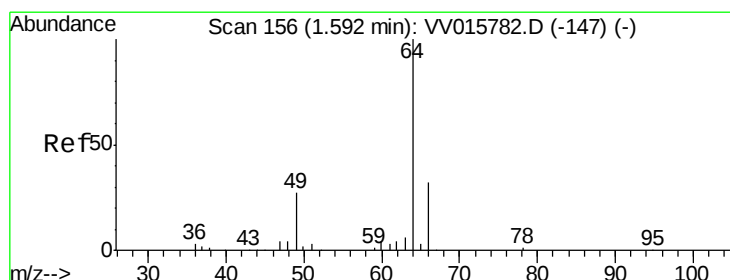
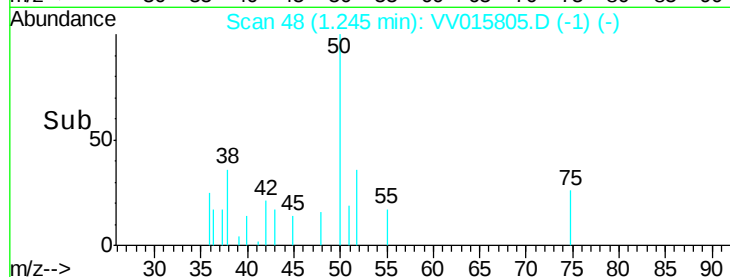
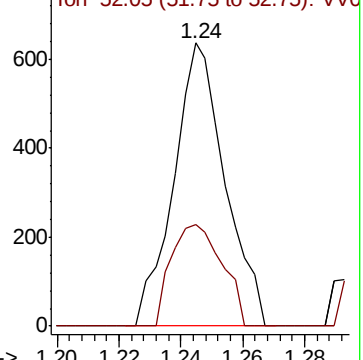
Ion Ratio Lower Upper

50 100

52 35.8 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VV015805.D (-1) (-)



#8

Chloroethane

Concen: 0.272 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.03 min

Lab File: VV015805.D

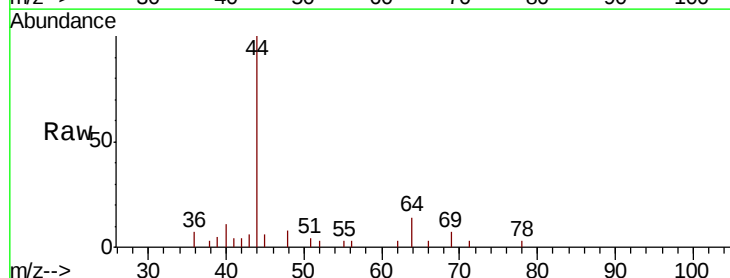
Acq: 29 Apr 2020 20:10

Tgt Ion: 64 Resp: 1723

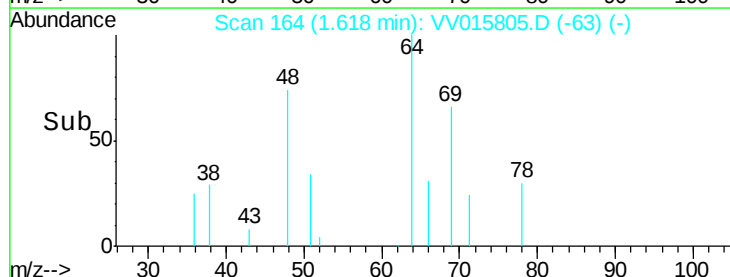
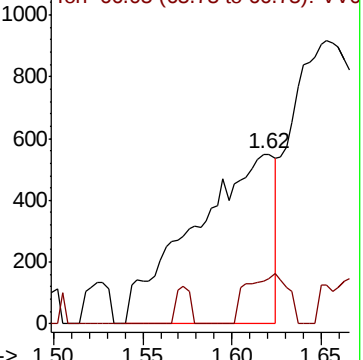
Ion Ratio Lower Upper

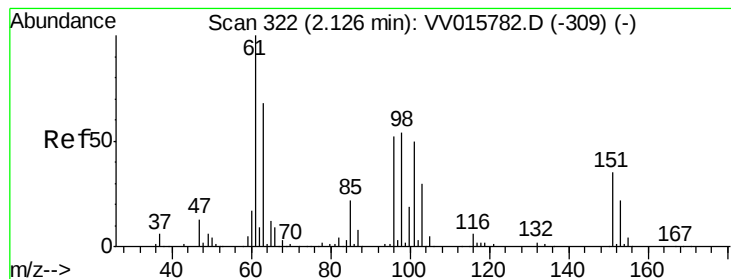
64 100

66 24.9 22.3 41.5



Abundance Ion 64.10 (63.80 to 64.80): VV015805.D (-63) (-)





#10

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

Concen: 0.086 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV015805.D

Acq: 29 Apr 2020 20:10

Instrument :

MSVOA\_V

ClientSampled :

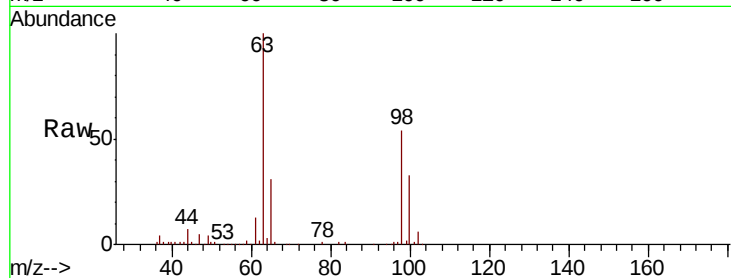
Tot Ion:101 Resp: 658

Ion Ratio Lower Upper

101 100

85 3.0 36.1 54.1#

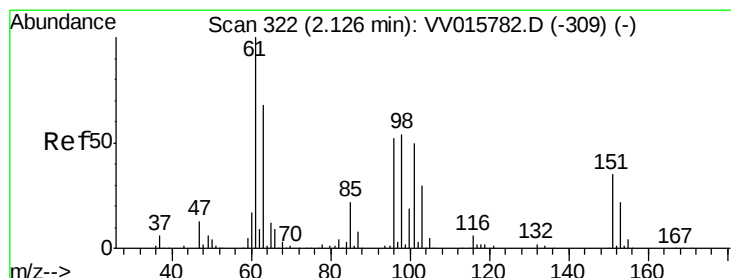
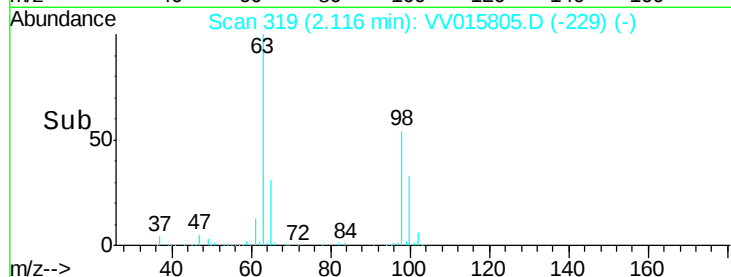
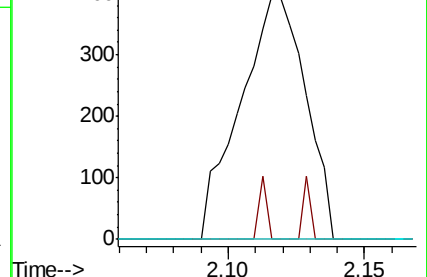
151 0.0 55.2 82.8#



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: 0.099 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV015805.D

Acq: 29 Apr 2020 20:10

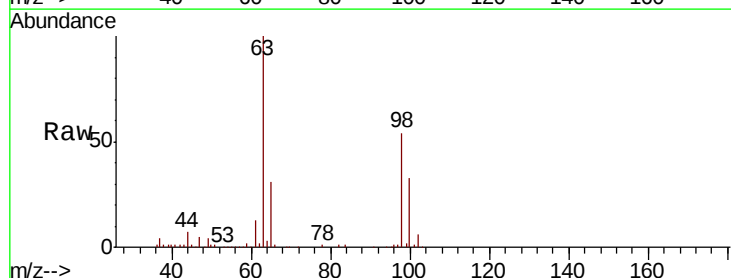
Tgt Ion: 96 Resp: 704

Ion Ratio Lower Upper

96 100

61 1082.1 130.1 241.7#

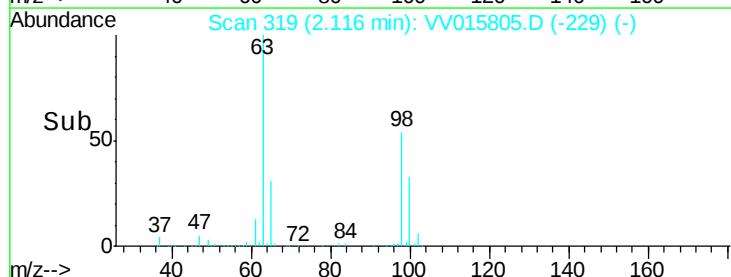
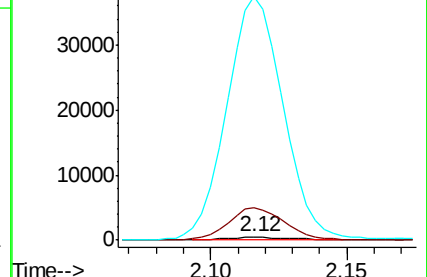
63 8194.3 91.4 169.8#

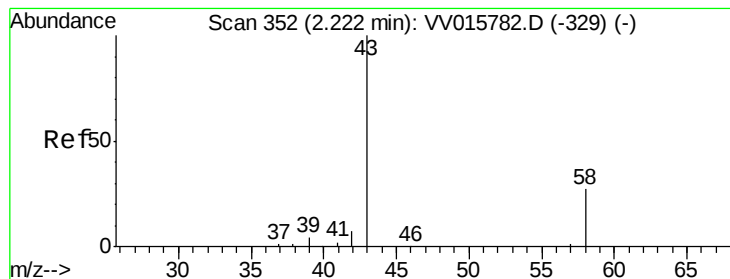


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 1.829 ug/L

RT: 2.23 min Scan# 356

Delta R.T. 0.01 min

Lab File: VV015805.D

Acq: 29 Apr 2020 20:10

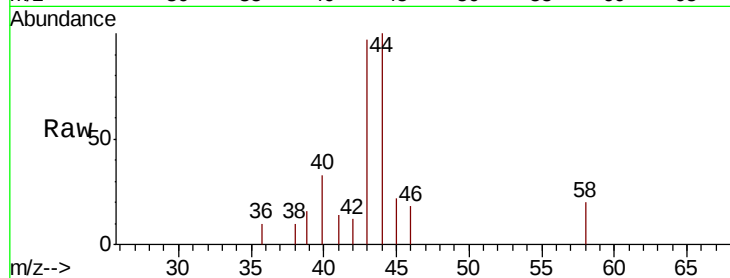
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 2596

Ion Ratio Lower Upper

43 100

58 1.7 0.0 57.6



Abundance Ion 43.05 (42.75 to 43.75): VV015782.D (-329) (-)

Ion 58.05 (57.75 to 58.75): VV015782.D (-329) (-)

2.23

1200

1000

800

600

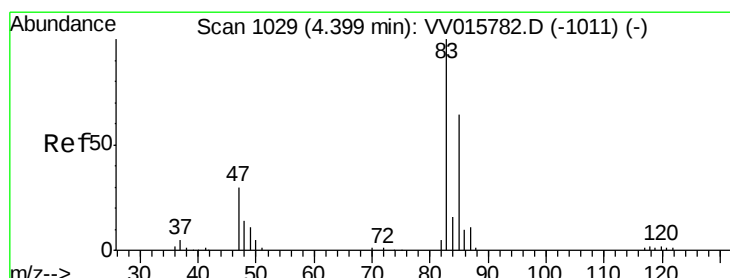
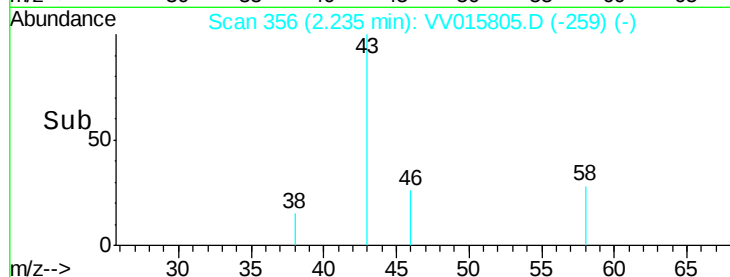
400

200

0

Time-->

2.15 2.20 2.25



#25

Chloroform

Concen: 0.704 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VV015805.D

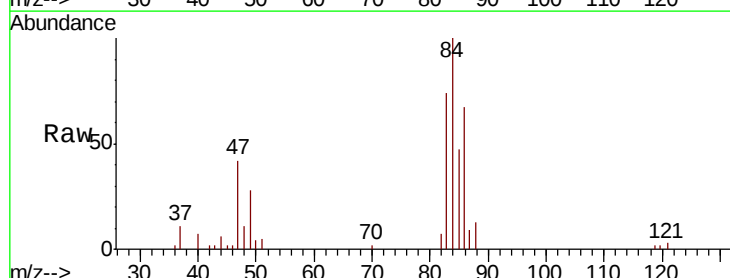
Acq: 29 Apr 2020 20:10

Tgt Ion: 83 Resp: 11656

Ion Ratio Lower Upper

83 100

85 63.2 46.1 85.5



Abundance Ion 83.05 (82.75 to 83.75): VV015782.D (-1011) (-)

Ion 85.00 (84.70 to 85.70): VV015782.D (-1011) (-)

4.41

5000

4000

3000

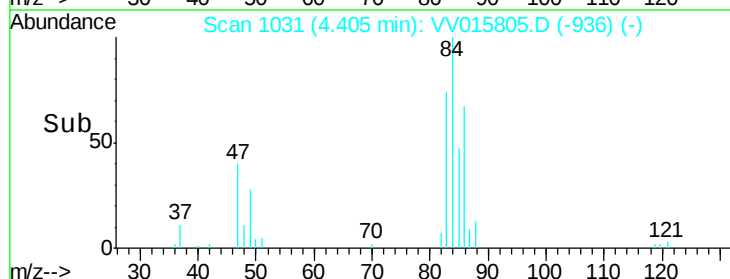
2000

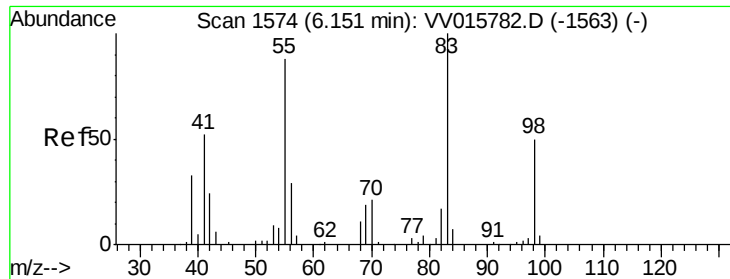
1000

0

Time-->

4.30 4.35 4.40 4.45 4.50

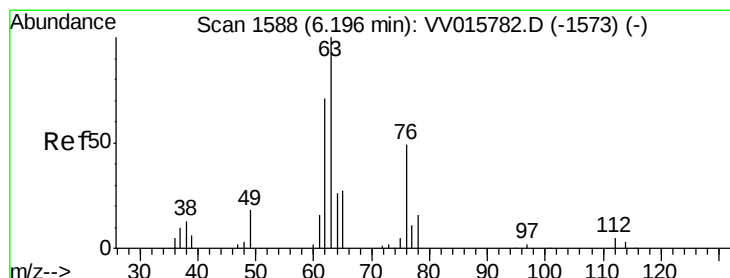
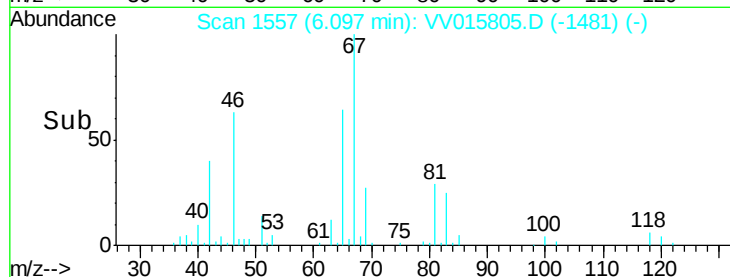
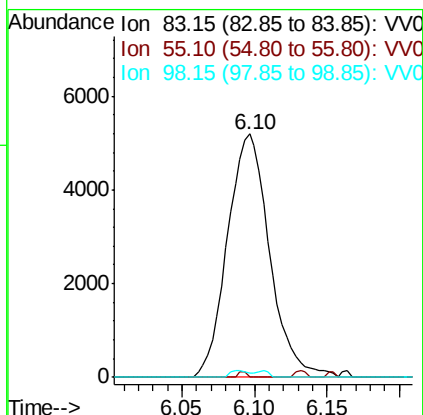
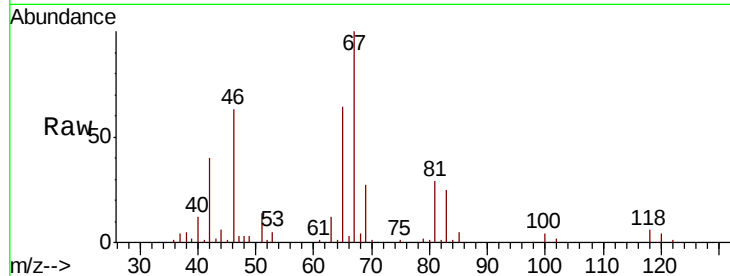




#35  
Methvlcvclohexane  
Concen: 0.720 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.05 min  
Lab File: VV015805.D  
Acq: 29 Apr 2020 20:10

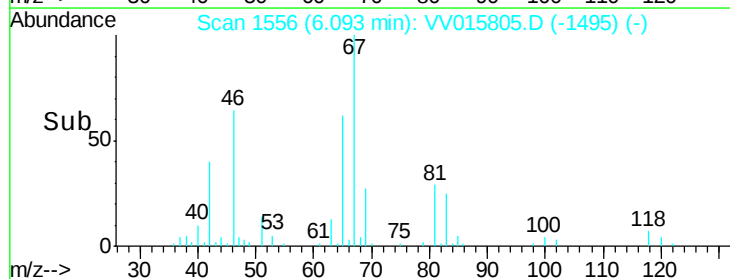
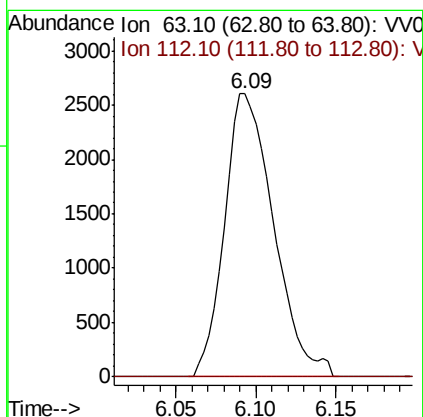
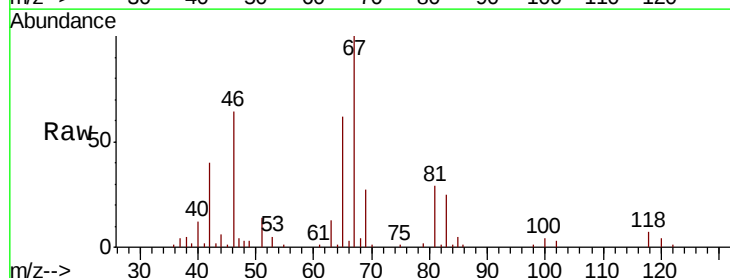
Instrument :  
MSVOA\_V  
ClientSampleId :

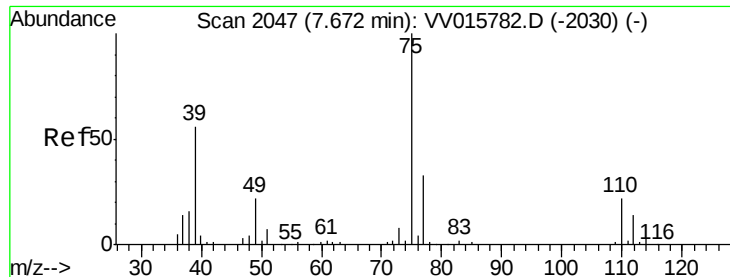
Tot Ion: 83 Resp: 10506  
Ion Ratio Lower Upper  
83 100  
55 0.4 66.6 99.8#  
98 1.2 39.5 59.3#



#37  
1,2-Dichloropropane  
Concen: 0.625 ug/L  
RT: 6.09 min Scan# 1556  
Delta R.T. -0.10 min  
Lab File: VV015805.D  
Acq: 29 Apr 2020 20:10

Tgt Ion: 63 Resp: 5473  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.6 5.4#





#44

trans-1,3-Dichloropropene

Concen: 0.077 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV015805.D

Acq: 29 Apr 2020 20:10

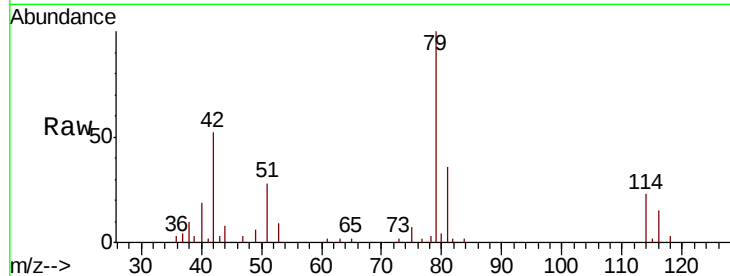
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 75 Resp: 788

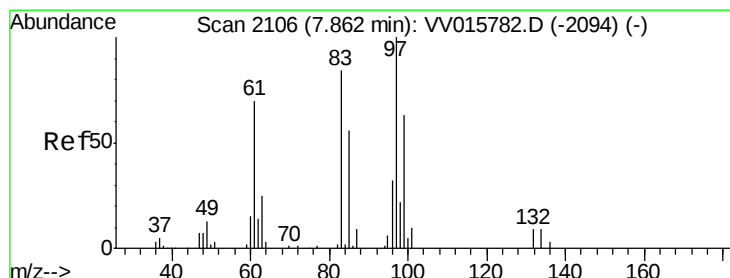
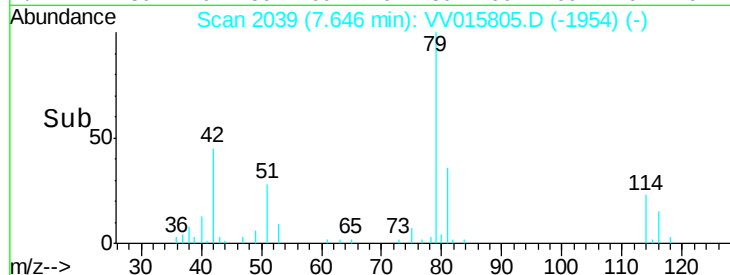
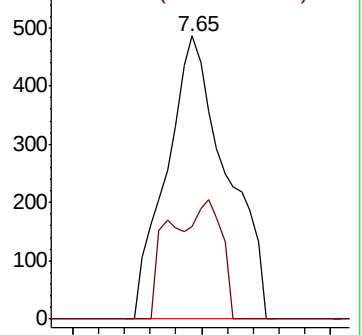
Ion Ratio Lower Upper

75 100

77 32.7 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VV015782.D (-2030) (-)



#45

1,1,2-Trichloroethane

Concen: 0.336 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. 0.13 min

Lab File: VV015805.D

Acq: 29 Apr 2020 20:10

Tgt Ion: 97 Resp: 2007

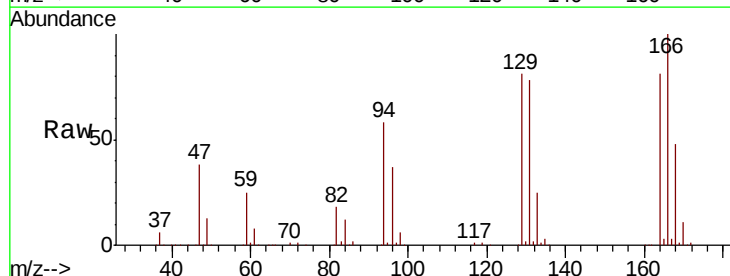
Ion Ratio Lower Upper

97 100

99 23.2 45.4 84.4#

83 260.3 61.3 113.9#

85 46.4 38.4 71.4

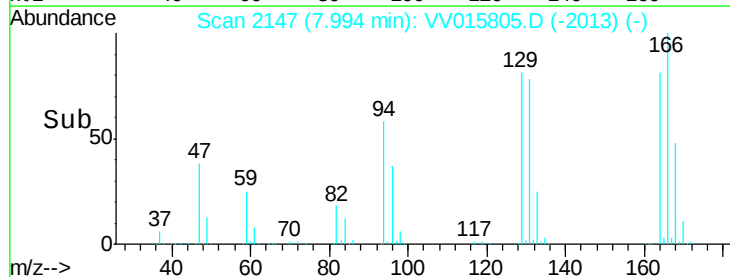
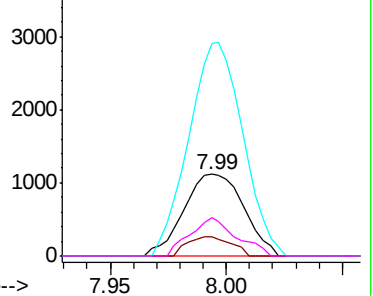


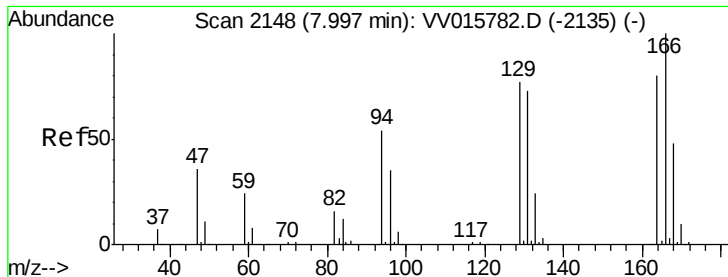
Abundance Ion 96.95 (96.65 to 97.65): VV015782.D (-2094) (-)

Ion 99.05 (98.75 to 99.75): VV015782.D (-2094) (-)

Ion 82.95 (82.65 to 83.65): VV015782.D (-2094) (-)

Ion 85.00 (84.70 to 85.70): VV015782.D (-2094) (-)

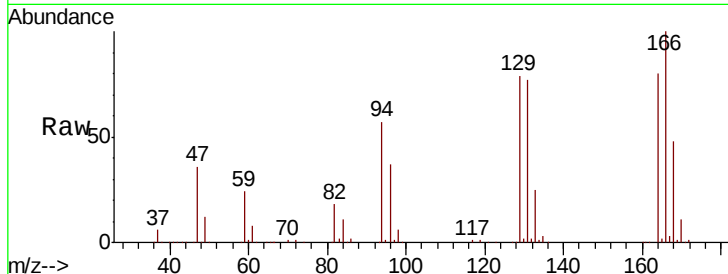




#47  
Tetrachloroethene  
Concen: 28.207 ug/L  
RT: 8.00 min Scan# 2148  
Delta R.T. -0.00 min  
Lab File: VV015805.D  
Acq: 29 Apr 2020 20:10

Instrument :  
MSVOA\_V  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 129     | 99.0  | 66.7  | 123.9 |
| 131     | 95.8  | 66.6  | 123.6 |
| 166     | 124.7 | 85.3  | 158.5 |



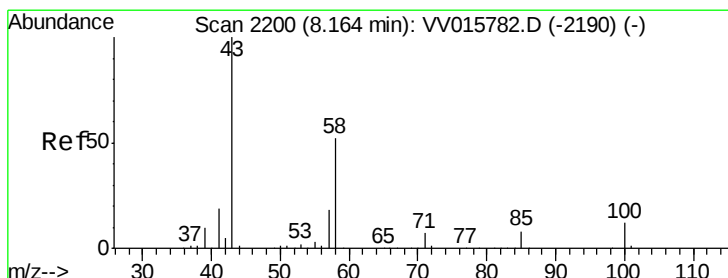
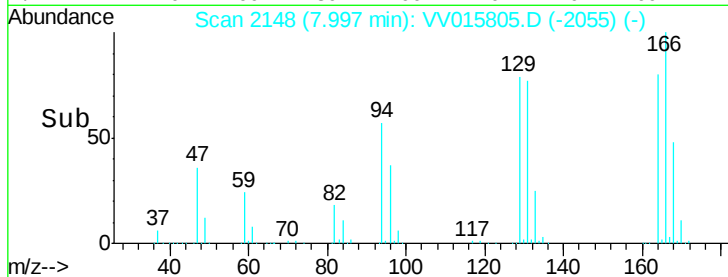
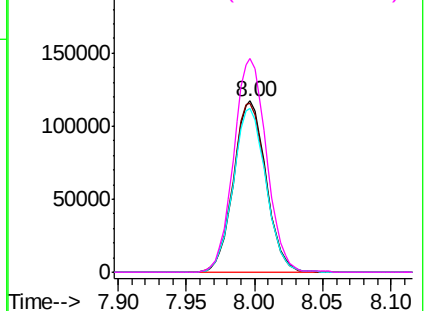
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

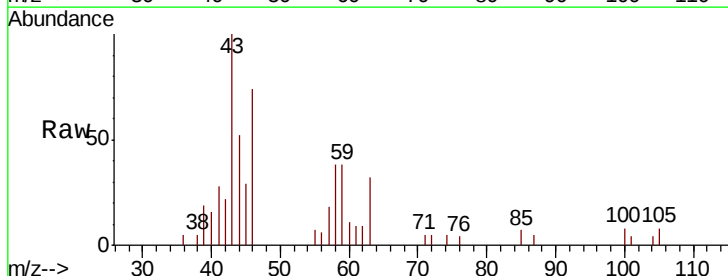
Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48  
2-Hexanone  
Concen: 1.548 ug/L  
RT: 8.17 min Scan# 2203  
Delta R.T. 0.01 min  
Lab File: VV015805.D  
Acq: 29 Apr 2020 20:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 41.0  | 41.1  | 61.7# |
| 57      | 17.2  | 15.0  | 22.4  |
| 100     | 5.3   | 9.0   | 13.4# |



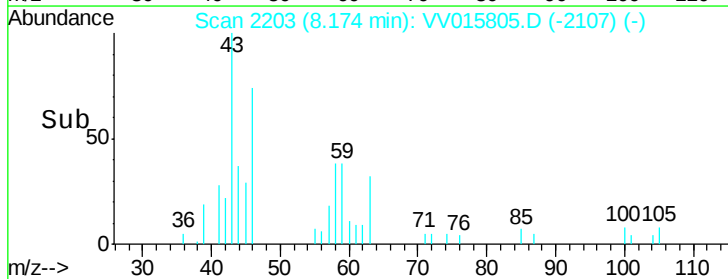
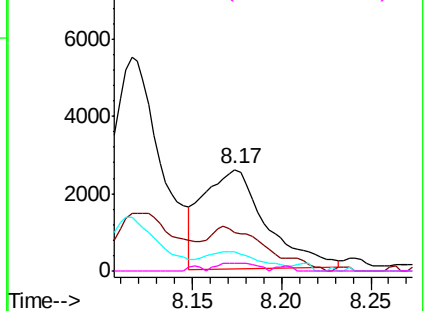
Abundance

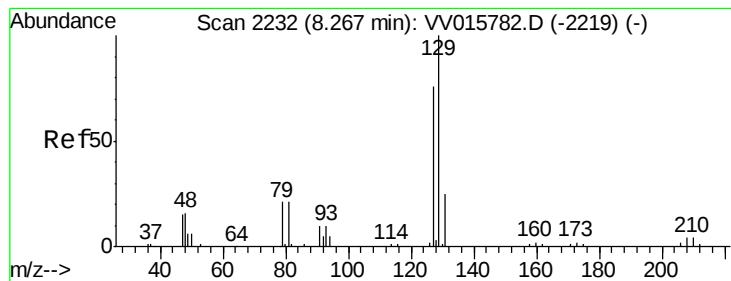
Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0





#49

Dibromochloromethane

Concen: 30.296 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.27 min

Lab File: VV015805.D

Acq: 29 Apr 2020 20:10

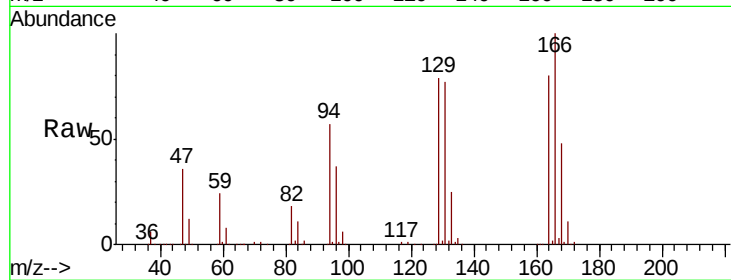
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:129 Resp: 187103

Ion Ratio Lower Upper

129 100

127 0.1 52.6 97.8#



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V

