

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052019\  
 Data File : VU032171.D  
 Acq On : 20 May 2019 21:58  
 Operator : JC/SP  
 Sample : K2889-07  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: May 21 08:41:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR051619WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue May 21 08:29:49 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 353970   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 368774   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 143974   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 96048    | 3.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 64.40%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 89478    | 3.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 70.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 137244   | 2.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 57.80%# |
| 20) 2-Butanone-d5              | 4.19   | 46    | 237081   | 40.50    | ug/L | -0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 81.00%  |
| 24) Chloroform-d               | 4.64   | 84    | 204835   | 3.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 78.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 107961   | 3.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 79.80%  |
| 32) Benzene-d6                 | 5.33   | 84    | 407671   | 3.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 72.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.32   | 67    | 119402   | 3.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 72.60%  |
| 41) Toluene-d8                 | 7.56   | 98    | 324825   | 3.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 65.60%# |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 39705    | 3.35     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 67.00%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 203937   | 38.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 76.30%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 109236   | 4.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 81.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 132384   | 4.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 86.80%  |

## Target Compounds

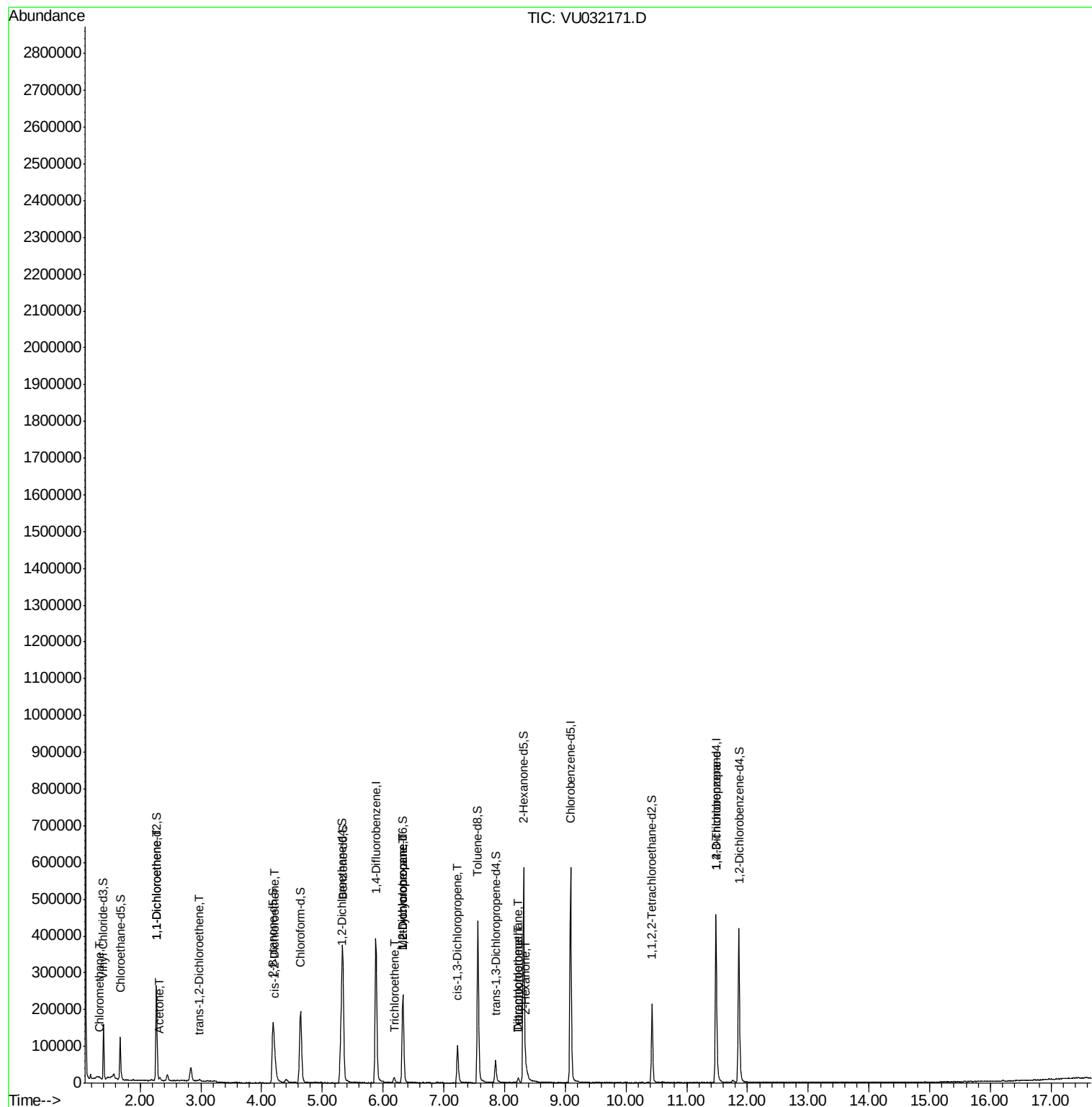
| Target Compounds             | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|------------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane             | 1.33  | 50   | 2507     | 0.147 | ug/L   | 97     |
| 12) 1,1-Dichloroethene       | 2.27  | 96   | 1634     | 0.115 | ug/L # | 1      |
| 13) Acetone                  | 2.32  | 43   | 6645     | 3.458 | ug/L   | 97     |
| 18) trans-1,2-Dichloroethene | 2.98  | 96   | 1889     | 0.124 | ug/L # | 50     |
| 22) cis-1,2-Dichloroethene   | 4.22  | 96   | 20076    | 1.341 | ug/L   | 99     |
| 34) Trichloroethene          | 6.18  | 95   | 4787     | 0.312 | ug/L   | 93     |
| 35) Methylcyclohexane        | 6.32  | 83   | 31199    | 1.411 | ug/L # | 20     |
| 37) 1,2-Dichloropropane      | 6.33  | 63   | 12548    | 0.906 | ug/L # | 91     |
| 39) cis-1,3-Dichloropropene  | 7.23  | 75   | 2781     | 0.145 | ug/L # | 60     |
| 47) Tetrachloroethene        | 8.23  | 164  | 3981     | 0.347 | ug/L   | 81     |
| 48) 2-Hexanone               | 8.36  | 43   | 7448     | 1.496 | ug/L # | 85     |
| 49) Dibromochloromethane     | 8.23  | 129  | 3836     | 0.325 | ug/L # | 10     |
| 59) 1,2,3-Trichloropropane   | 11.48 | 75   | 14497    | 1.649 | ug/L # | 87     |

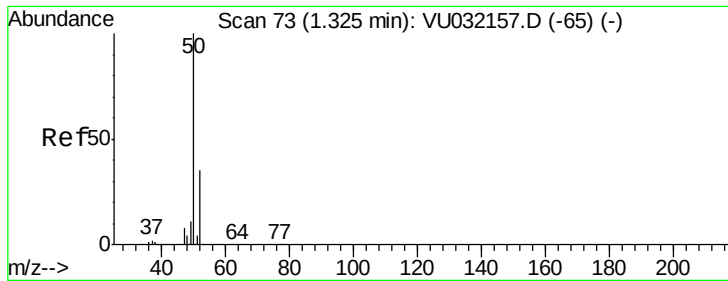
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: May 21 08:41:53 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR051619WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue May 21 08:29:49 2019  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.147 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU032171.D

Acq: 20 May 2019 21:58

Instrument :

MSVOA\_U

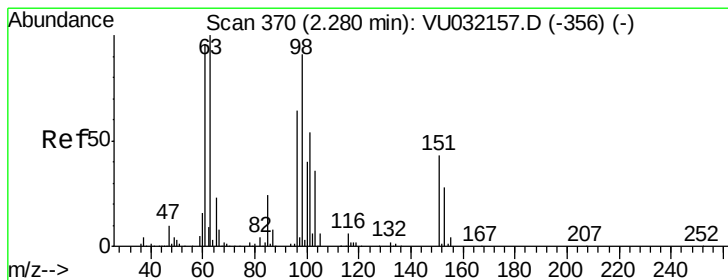
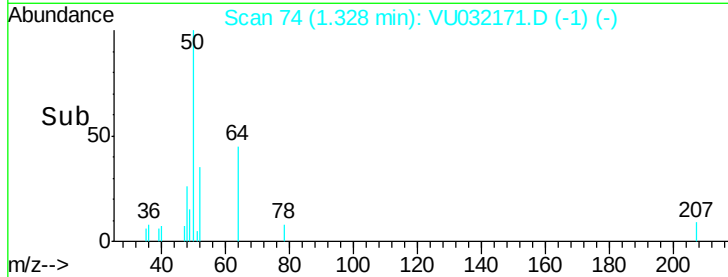
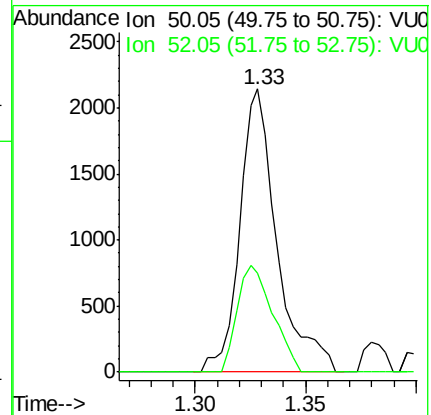
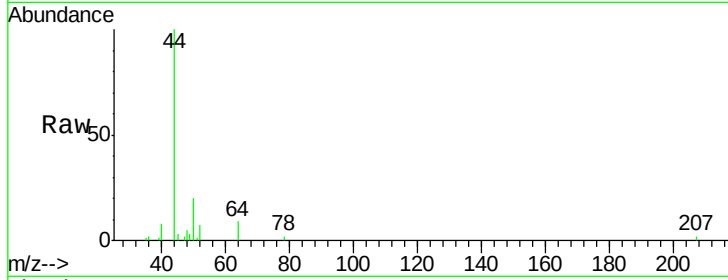
ClientSampled :

Tot Ion: 50 Resp: 2507

Ion Ratio Lower Upper

50 100

52 35.0 23.2 43.0



#12

1,1-Dichloroethene

Concen: 0.115 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032171.D

Acq: 20 May 2019 21:58

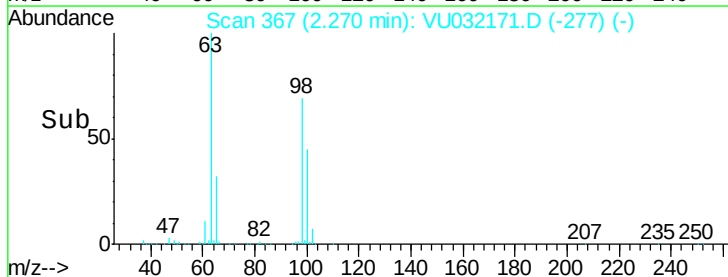
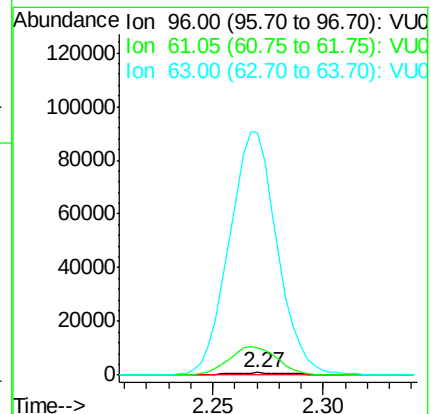
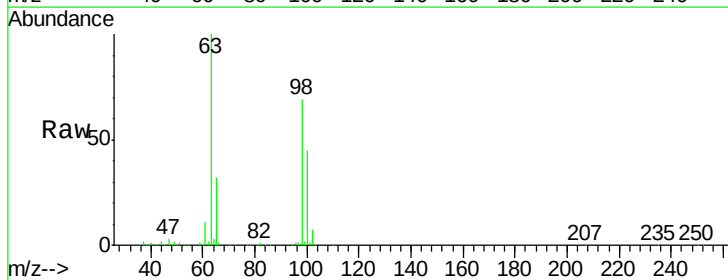
Tgt Ion: 96 Resp: 1634

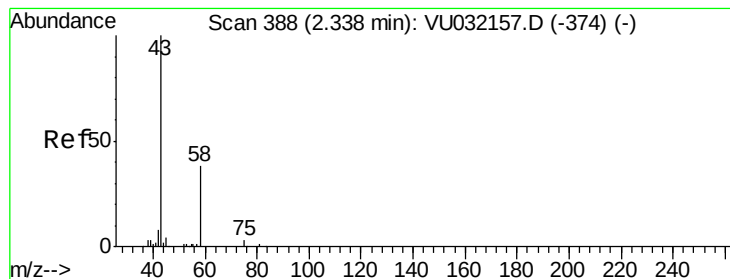
Ion Ratio Lower Upper

96 100

61 1057.1 111.7 207.5#

63 9239.0 152.2 282.6#





#13

Acetone

Concen: 3.458 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.02 min

Lab File: VU032171.D

Acq: 20 May 2019 21:58

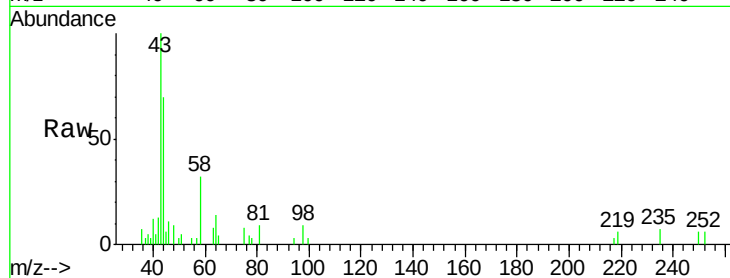
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 6645

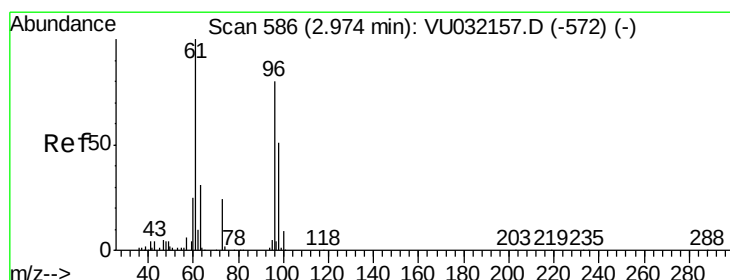
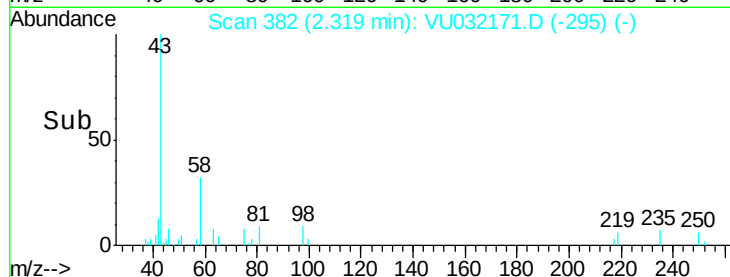
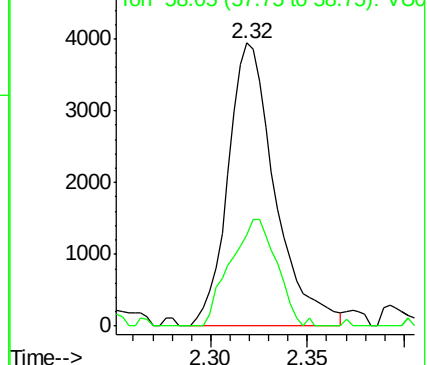
Ion Ratio Lower Upper

43 100

58 37.3 0.0 78.8



Abundance Ion 43.05 (42.75 to 43.75): VU032171.D (-295) (-)



#18

trans-1,2-Dichloroethene

Concen: 0.124 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.01 min

Lab File: VU032171.D

Acq: 20 May 2019 21:58

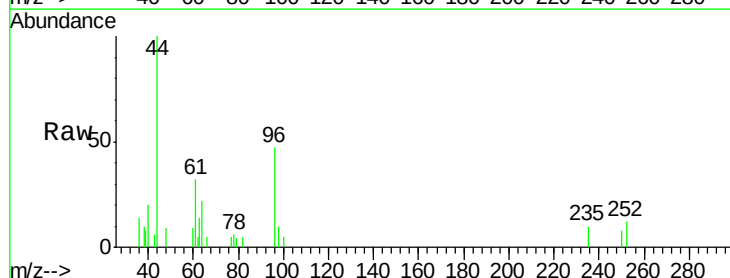
Tgt Ion: 96 Resp: 1889

Ion Ratio Lower Upper

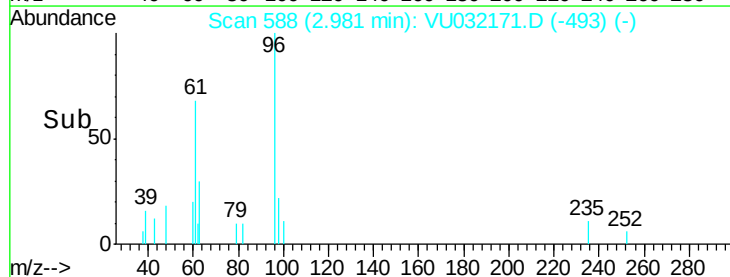
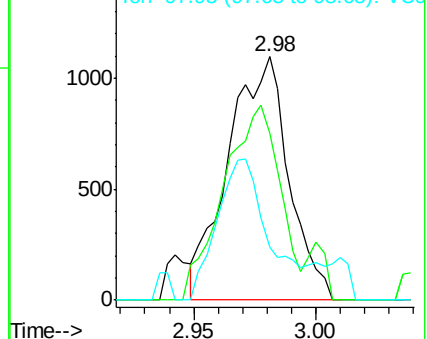
96 100

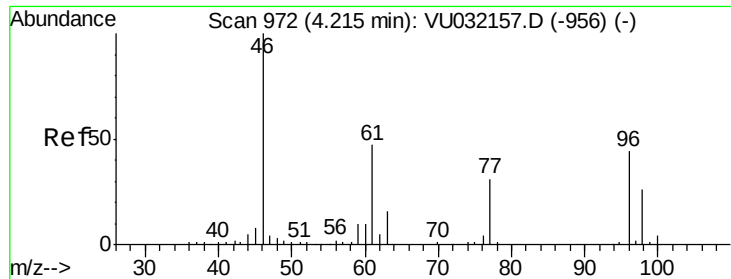
61 68.5 86.5 160.7#

98 21.6 43.5 80.9#



Abundance Ion 96.00 (95.70 to 96.70): VU032171.D (-493) (-)



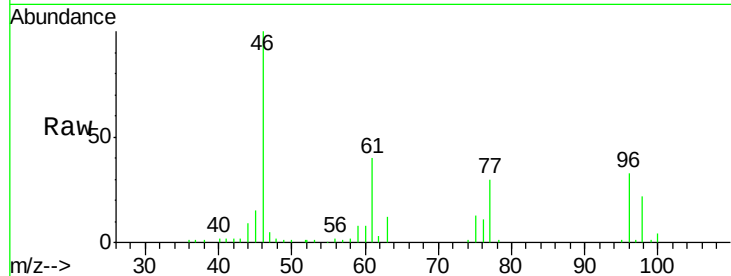


#22

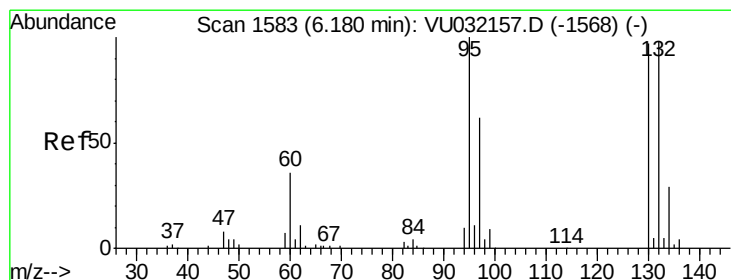
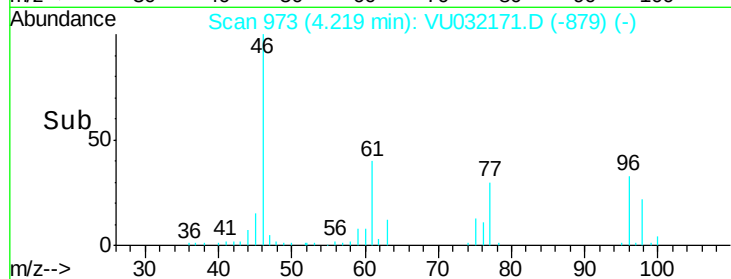
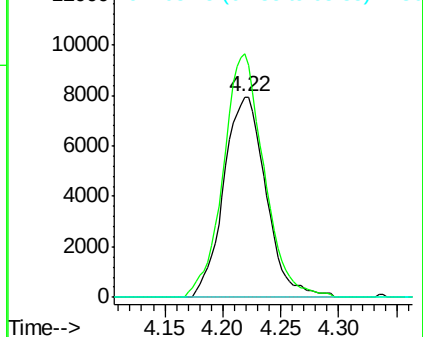
cis-1,2-Dichloroethene  
Concen: 1.341 ug/L  
RT: 4.22 min Scan# 973  
Delta R.T. 0.00 min  
Lab File: VU032171.D  
Acq: 20 May 2019 21:58

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 96 Resp: 20076  
Ion Ratio Lower Upper  
96 100  
61 121.7 85.8 159.4  
68 0.0 0.0 0.0



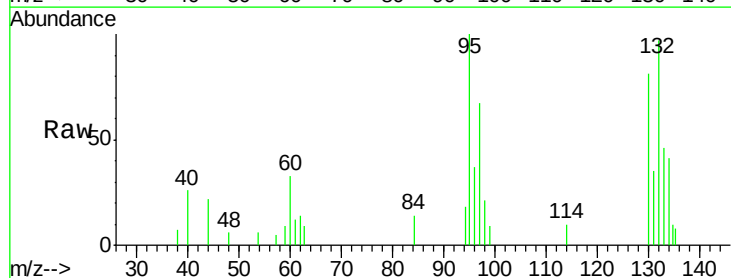
Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 68.15 (67.85 to 68.85): VU0



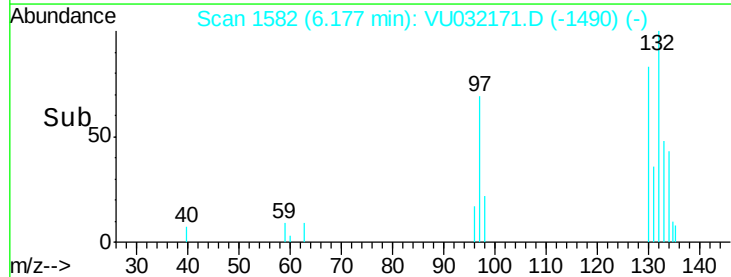
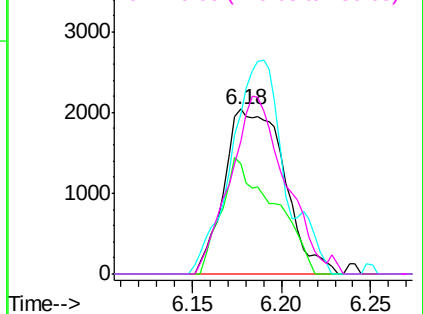
#34

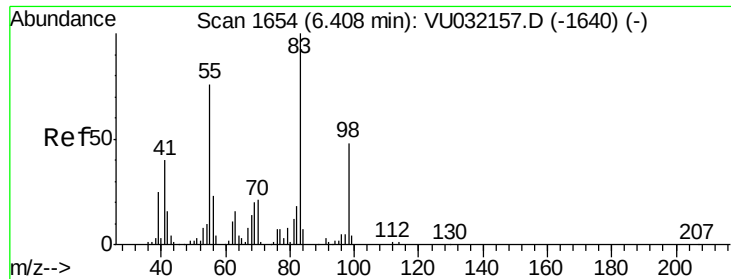
Trichloroethene  
Concen: 0.312 ug/L  
RT: 6.18 min Scan# 1582  
Delta R.T. -0.00 min  
Lab File: VU032171.D  
Acq: 20 May 2019 21:58

Tgt Ion: 95 Resp: 4787  
Ion Ratio Lower Upper  
95 100  
97 67.1 45.2 84.0  
132 96.8 66.1 122.7  
130 80.6 66.7 123.9



Abundance Ion 95.00 (94.70 to 95.70): VU0  
Ion 96.95 (96.65 to 97.65): VU0  
Ion 131.95 (131.65 to 132.65): V  
Ion 129.95 (129.65 to 130.65): V

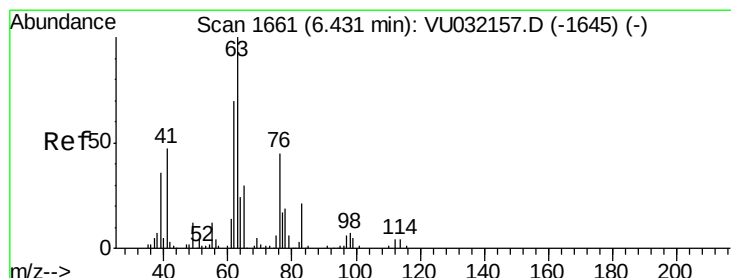
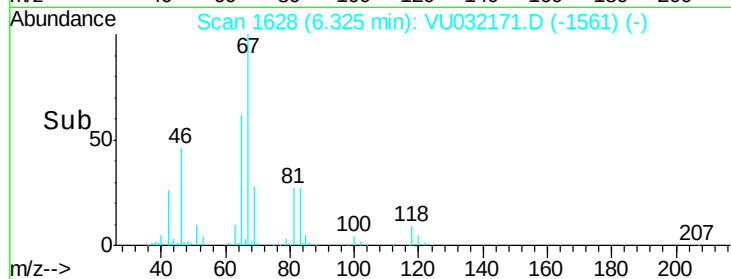
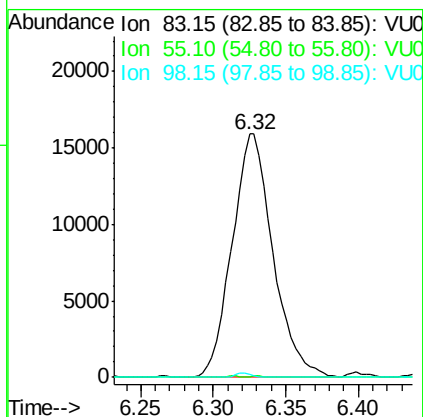
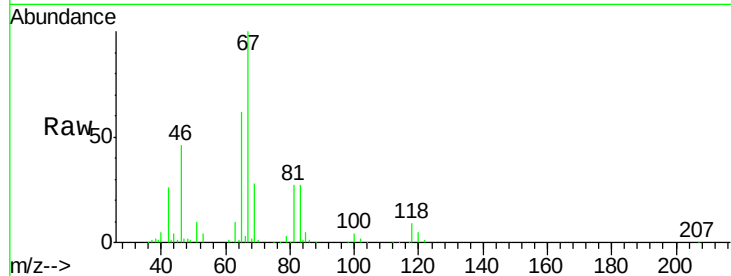




#35  
Methylvlcyclohexane  
Concen: 1.411 ug/L  
RT: 6.32 min Scan# 1628  
Delta R.T. -0.08 min  
Lab File: VU032171.D  
Acq: 20 May 2019 21:58

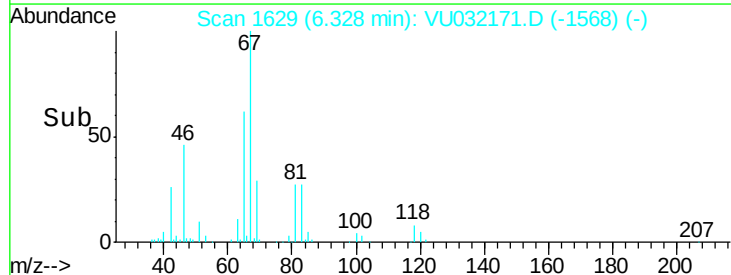
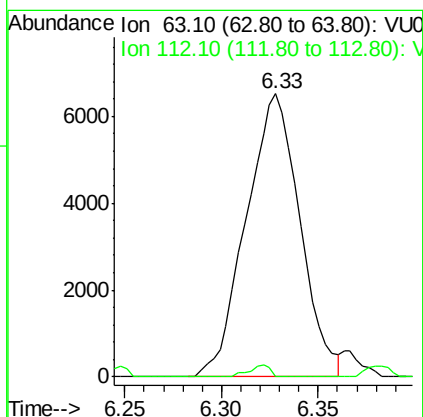
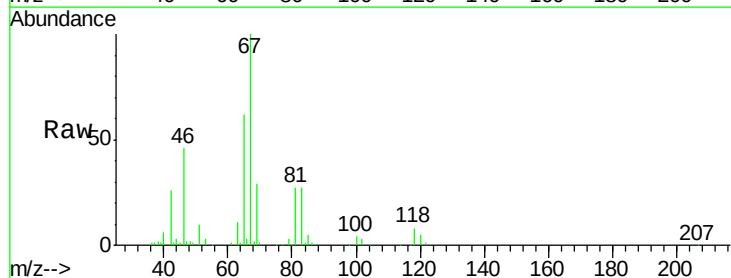
Instrument :  
MSVOA\_U  
ClientSampleId :

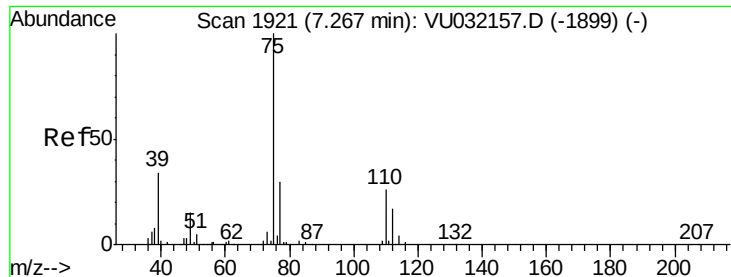
Tot Ion: 83 Resp: 31199  
Ion Ratio Lower Upper  
83 100  
55 0.1 59.7 89.5#  
98 0.7 36.8 55.2#



#37  
1,2-Dichloropropane  
Concen: 0.906 ug/L  
RT: 6.33 min Scan# 1629  
Delta R.T. -0.10 min  
Lab File: VU032171.D  
Acq: 20 May 2019 21:58

Tgt Ion: 63 Resp: 12548  
Ion Ratio Lower Upper  
63 100  
112 1.7 3.8 5.6#



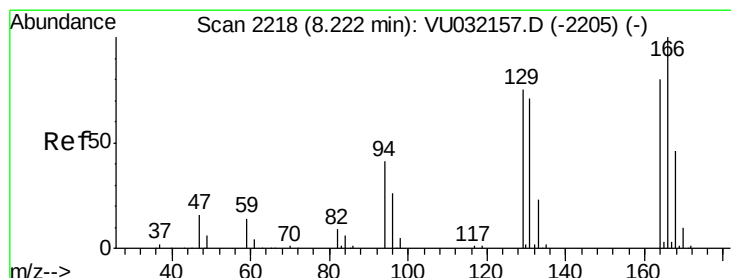
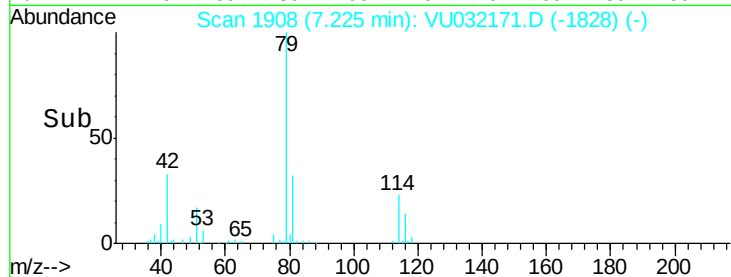
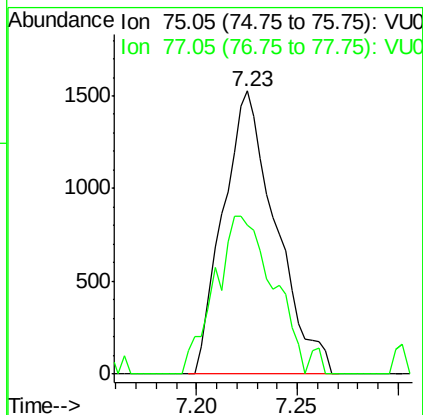
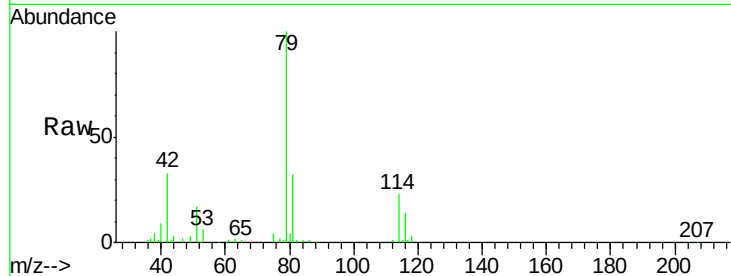


#39

cis-1,3-Dichloropropene  
 Concen: 0.145 ug/L  
 RT: 7.23 min Scan# 1908  
 Delta R.T. -0.04 min  
 Lab File: VU032171.D  
 Acq: 20 May 2019 21:58

Instrument :  
 MSVOA\_U  
 ClientSampleId :

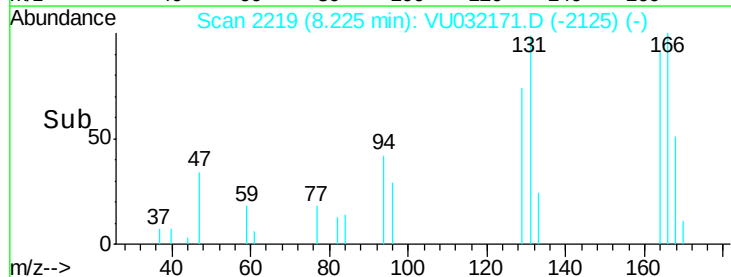
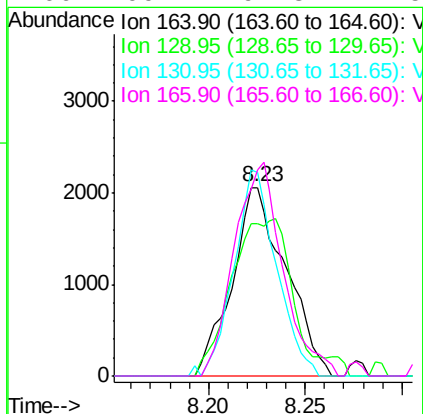
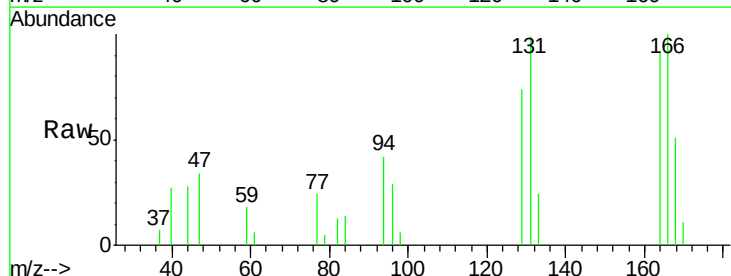
Tot Ion: 75 Resp: 2781  
 Ion Ratio Lower Upper  
 75 100  
 77 52.8 21.7 40.3#

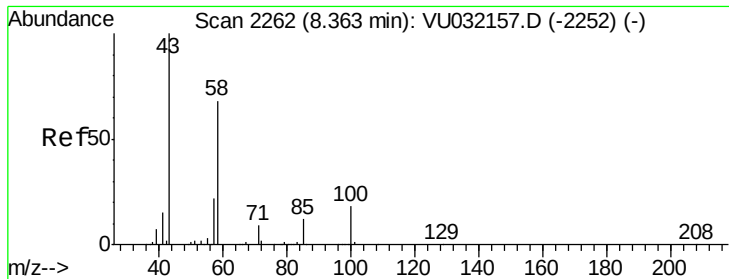


#47

Tetrachloroethene  
 Concen: 0.347 ug/L  
 RT: 8.23 min Scan# 2219  
 Delta R.T. 0.00 min  
 Lab File: VU032171.D  
 Acq: 20 May 2019 21:58

Tgt Ion: 164 Resp: 3981  
 Ion Ratio Lower Upper  
 164 100  
 129 80.8 70.3 130.5  
 131 108.4 64.5 119.9  
 166 109.4 92.3 171.5

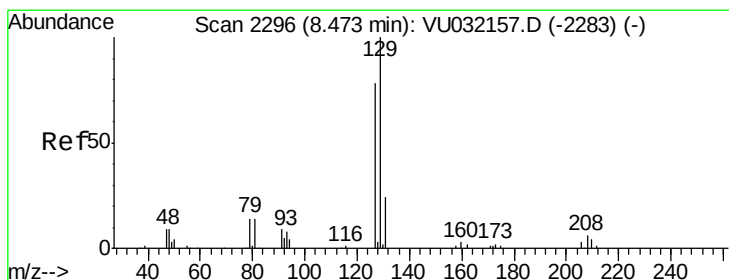
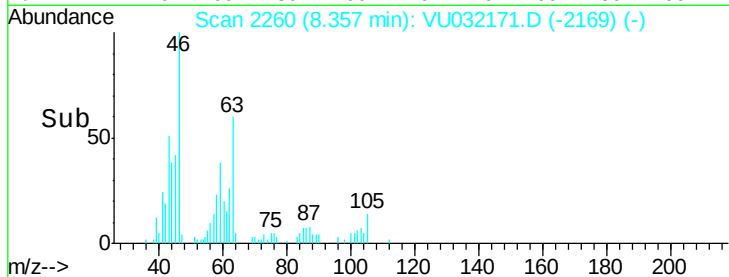
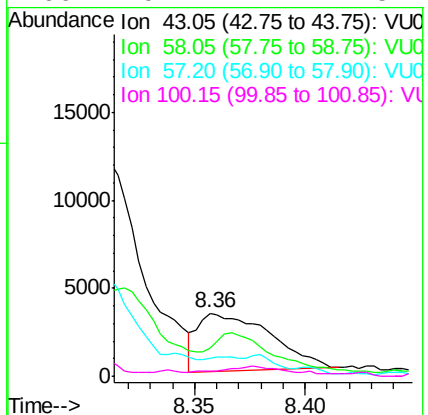
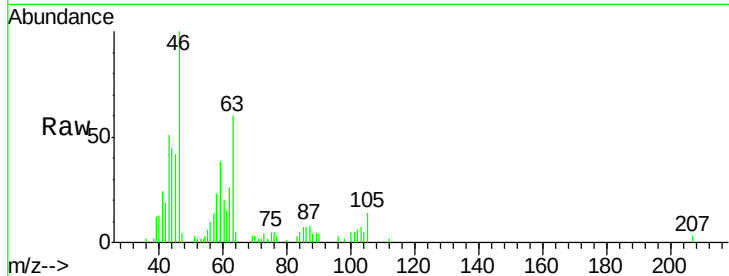




#48  
2-Hexanone  
Concen: 1.496 ug/L  
RT: 8.36 min Scan# 2260  
Delta R.T. -0.01 min  
Lab File: VU032171.D  
Acq: 20 May 2019 21:58

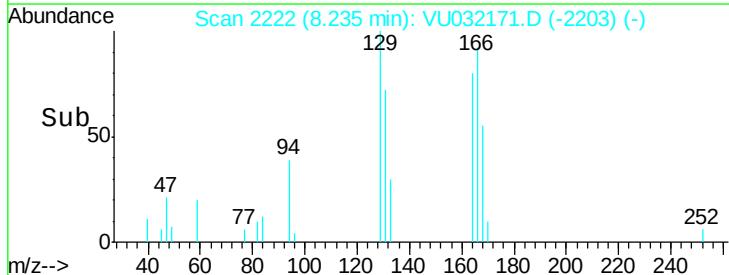
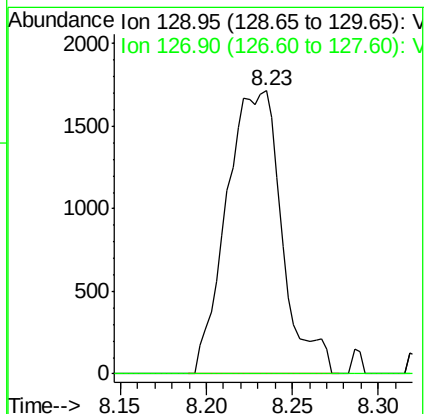
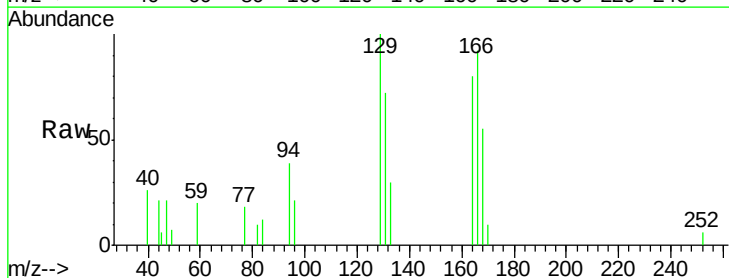
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 7448  
Ion Ratio Lower Upper  
43 100  
58 72.9 51.6 77.4  
57 8.9 18.4 27.6#  
100 9.2 12.2 18.4#

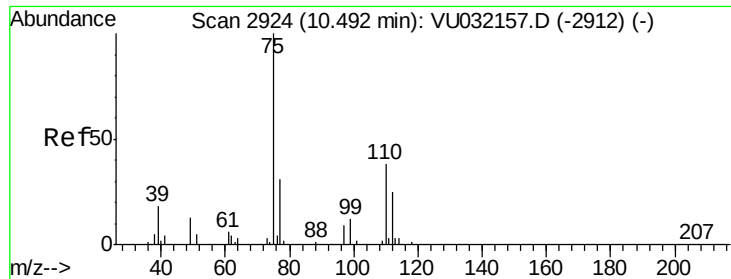


#49  
Dibromochloromethane  
Concen: 0.325 ug/L  
RT: 8.23 min Scan# 2222  
Delta R.T. -0.24 min  
Lab File: VU032171.D  
Acq: 20 May 2019 21:58

Tgt Ion: 129 Resp: 3836  
Ion Ratio Lower Upper  
129 100  
127 0.0 55.2 102.6#







#59

1,2,3-Trichloropropane

Concen: 1.649 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU032171.D

Acq: 20 May 2019 21:58

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 75 Resp: 14497

Ion Ratio Lower Upper

75 100

77 39.9 26.2 39.2#

