

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120919\  
 Data File : VU036054.D  
 Acq On : 09 Dec 2019 18:03  
 Operator : JC/MD  
 Sample : K6105-13DL 10X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFE32DL

Quant Time: Dec 10 03:01:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Dec 10 01:47:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 266370   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 286973   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 98380    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 102763   | 4.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 86.60%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 114735   | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 92.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 158947   | 3.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 73.20%  |
| 20) 2-Butanone-d5              | 4.70   | 46    | 224131   | 55.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 110.80% |
| 24) Chloroform-d               | 5.11   | 84    | 173114   | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 94562    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.80%  |
| 32) Benzene-d6                 | 5.77   | 84    | 345880   | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 106744   | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.40%  |
| 41) Toluene-d8                 | 7.93   | 98    | 291734   | 4.35     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 87.00%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 41060    | 4.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 90.00%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 182979   | 55.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 110.78% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79  | 84    | 96316    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 100102   | 5.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 105.80% |

## Target Compounds

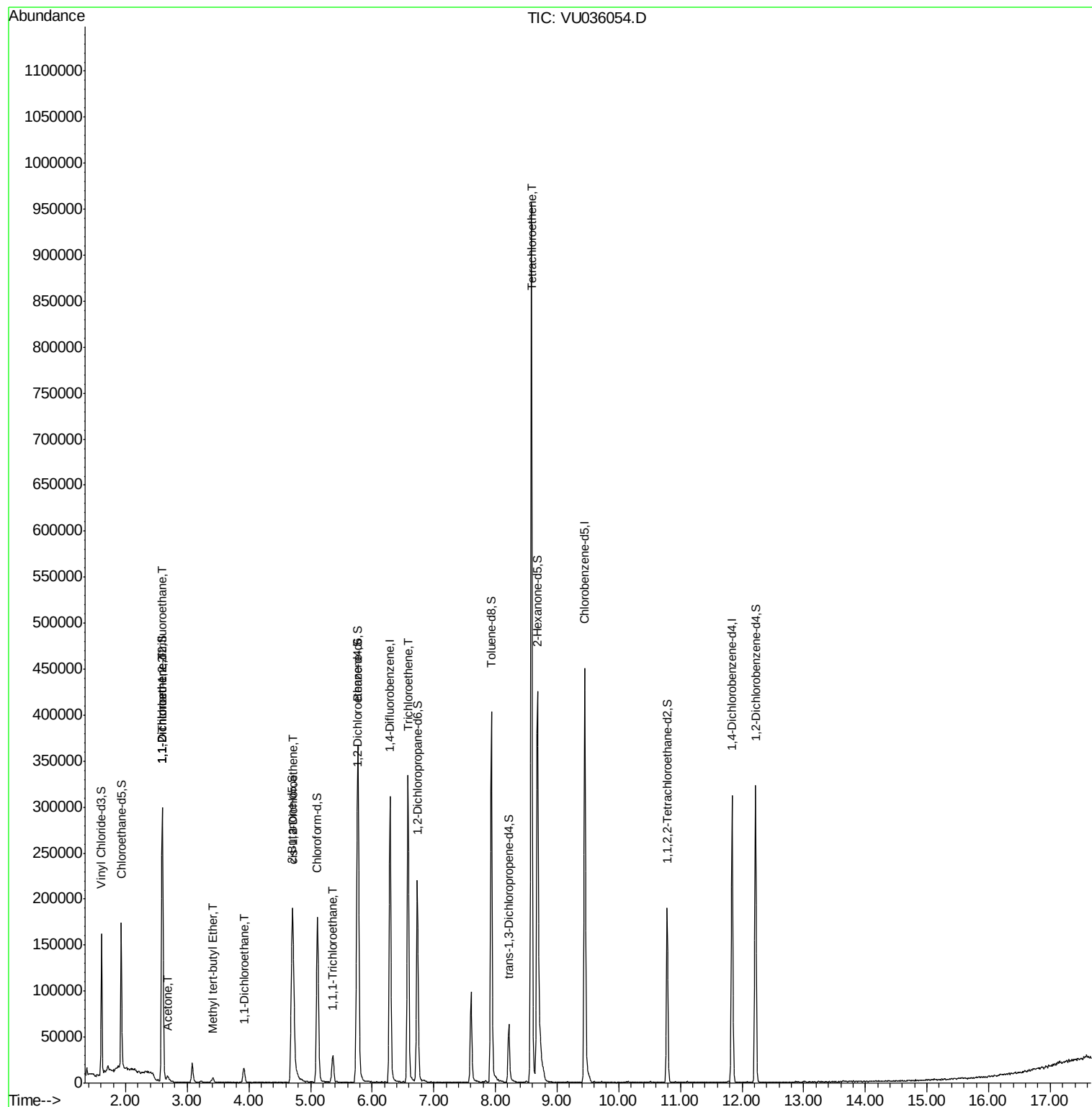
| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101  | 4375     | 0.170  | ug/L # | 80     |
| 12) 1,1-Dichloroethene         | 2.60 | 96   | 39969    | 1.725  | ug/L # | 23     |
| 13) Acetone                    | 2.68 | 43   | 8951     | 1.743  | ug/L   | 91     |
| 17) Methyl tert-butyl Ether    | 3.42 | 73   | 5165     | 0.129  | ug/L # | 91     |
| 19) 1,1-Dichloroethane         | 3.92 | 63   | 17781    | 0.501  | ug/L   | 96     |
| 22) cis-1,2-Dichloroethene     | 4.72 | 96   | 48495    | 2.336  | ug/L   | 98     |
| 29) 1,1,1-Trichloroethane      | 5.37 | 97   | 22267    | 0.688  | ug/L   | 94     |
| 34) Trichloroethene            | 6.58 | 95   | 110313   | 5.297  | ug/L   | 93     |
| 47) Tetrachloroethene          | 8.58 | 164  | 234530   | 11.846 | ug/L   | 98     |

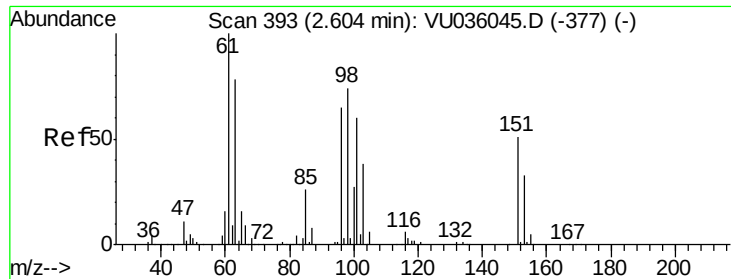
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 10 01:47:47 2019  
Response via : Initial Calibration





#10

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

Concen: 0.170 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU036054.D

Acq: 09 Dec 2019 18:03

Instrument :

MSVOA\_U

ClientSampled :

BFE32DL

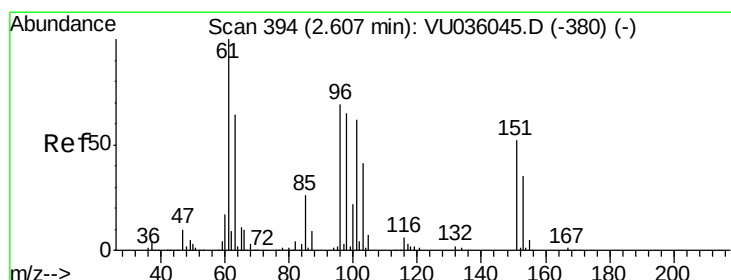
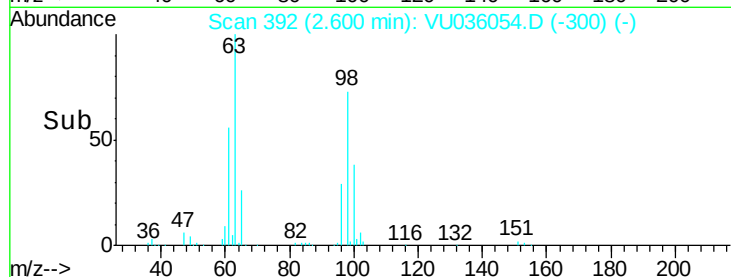
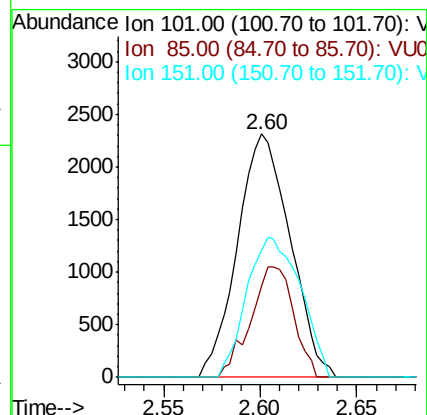
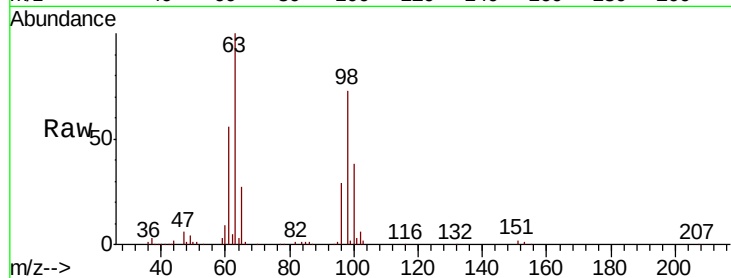
Tot Ion:101 Resp: 4375

Ion Ratio Lower Upper

101 100

85 37.1 33.1 49.7

151 58.9 66.5 99.7#



#12

1,1-Dichloroethene

Concen: 1.725 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036054.D

Acq: 09 Dec 2019 18:03

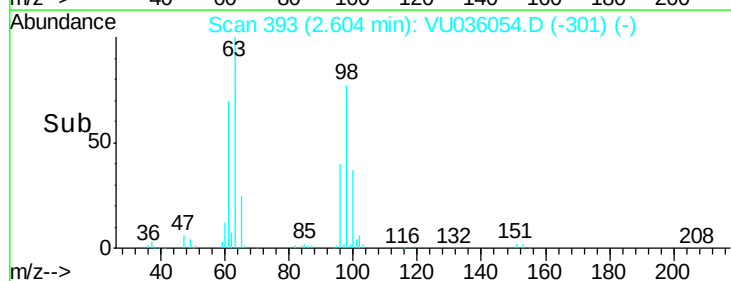
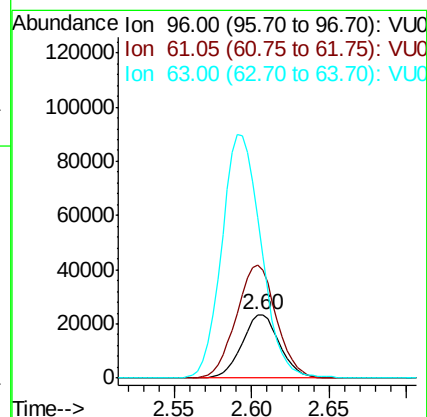
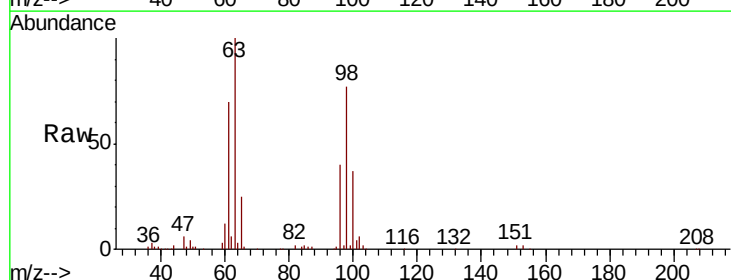
Tgt Ion: 96 Resp: 39969

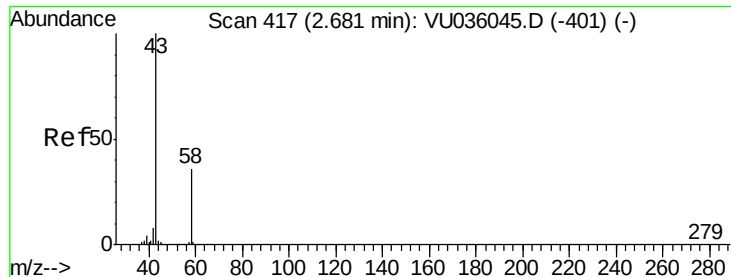
Ion Ratio Lower Upper

96 100

61 176.8 104.3 193.7

63 252.0 65.6 121.8#





#13

Acetone

Concen: 1.743 ug/L

RT: 2.68 min Scan# 417

Delta R.T. -0.00 min

Lab File: VU036054.D

Acq: 09 Dec 2019 18:03

Instrument :

MSVOA\_U

ClientSampleId :

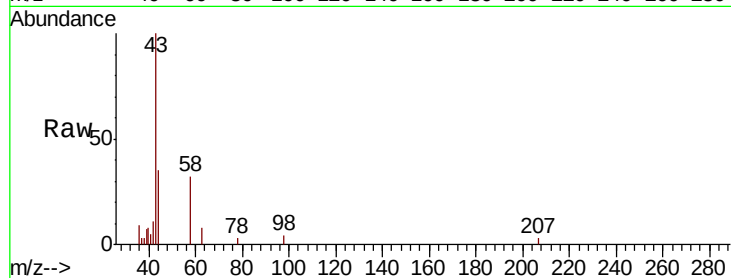
BFE32DL

Tot Ion: 43 Resp: 8951

Ion Ratio Lower Upper

43 100

58 31.5 0.0 74.2



Abundance Ion 43.05 (42.75 to 43.75): VU036045.D (-401) (-)

Ion 58.05 (57.75 to 58.75): VU036045.D (-401) (-)

2.68

4000

3000

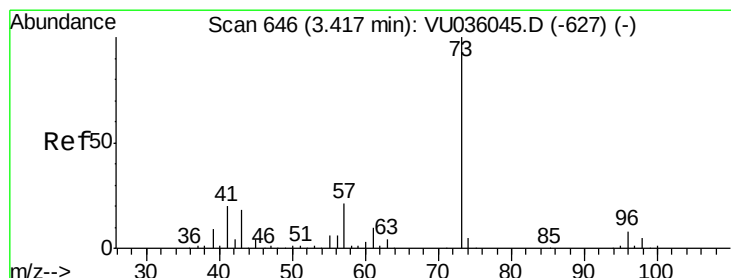
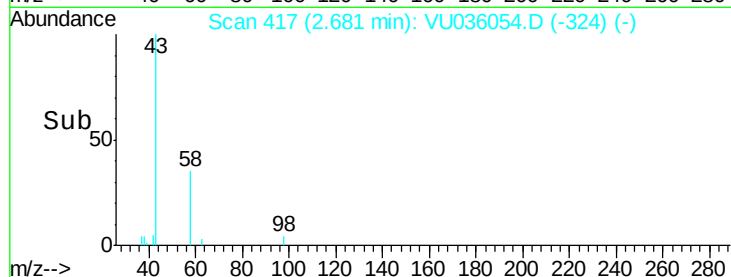
2000

1000

0

Time-->

2.60 2.65 2.70 2.75



#17

Methyl tert-butyl Ether

Concen: 0.129 ug/L

RT: 3.42 min Scan# 647

Delta R.T. 0.00 min

Lab File: VU036054.D

Acq: 09 Dec 2019 18:03

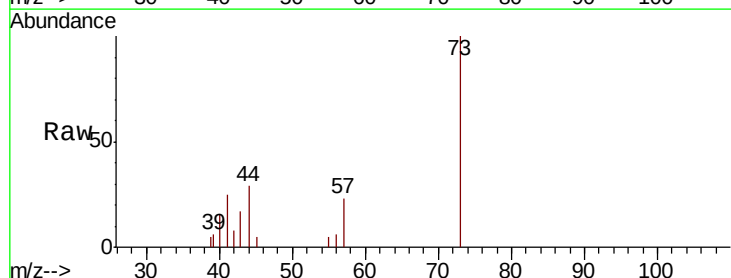
Tgt Ion: 73 Resp: 5165

Ion Ratio Lower Upper

73 100

43 21.8 15.6 23.4

57 16.0 17.4 26.2#



Abundance Ion 73.10 (72.80 to 73.80): VU036045.D (-627) (-)

Ion 43.05 (42.75 to 43.75): VU036045.D (-627) (-)

Ion 57.10 (56.80 to 57.80): VU036045.D (-627) (-)

3.42

3000

2500

2000

1500

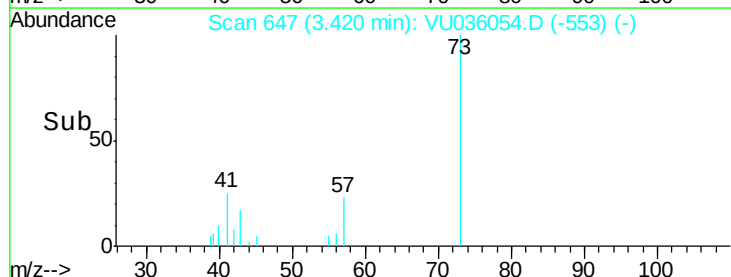
1000

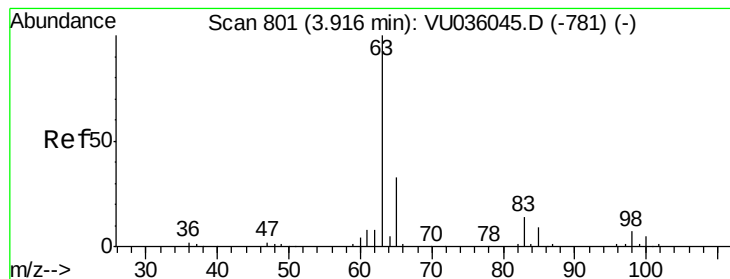
500

0

Time-->

3.35 3.40 3.45 3.50





#19

1,1-Dichloroethane

Concen: 0.501 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036054.D

Acq: 09 Dec 2019 18:03

Instrument :

MSVOA\_U

ClientSampleId :

BFE32DL

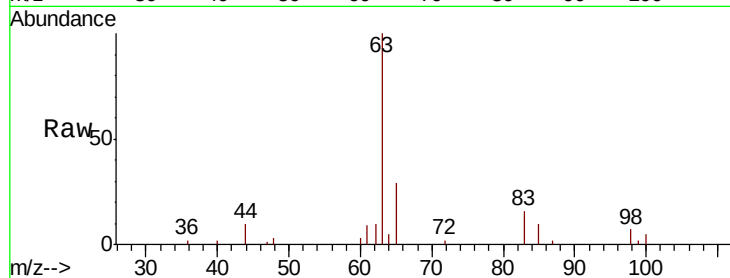
Tot Ion: 63 Resp: 17781

Ion Ratio Lower Upper

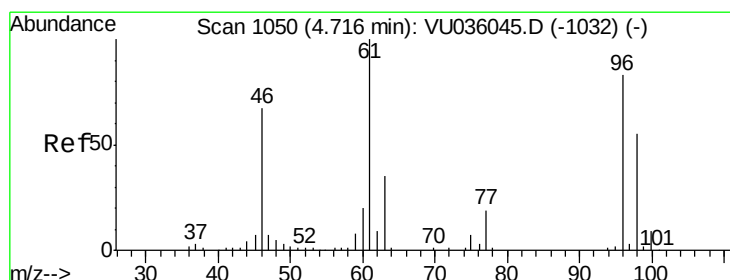
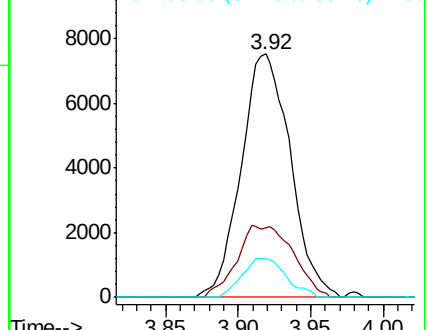
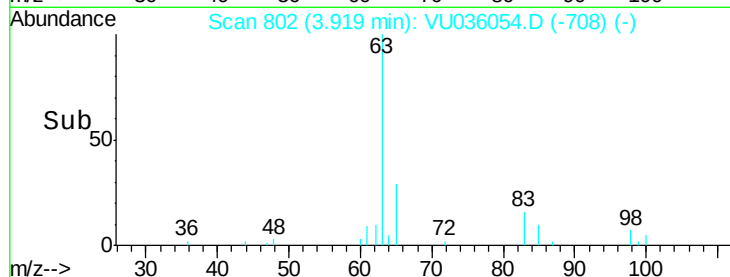
63 100

65 28.6 21.8 40.4

83 15.9 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VU036054.D (-781) (-)



#22

cis-1,2-Dichloroethene

Concen: 2.336 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU036054.D

Acq: 09 Dec 2019 18:03

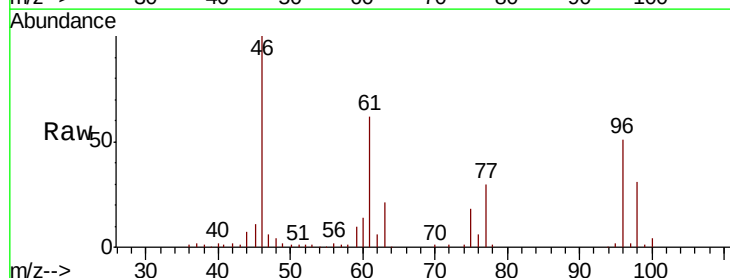
Tgt Ion: 96 Resp: 48495

Ion Ratio Lower Upper

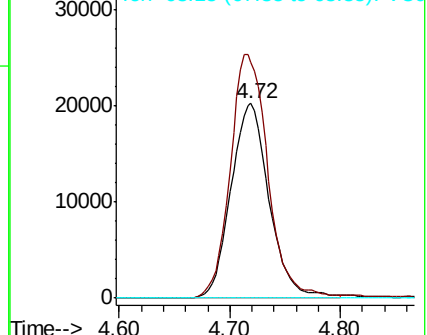
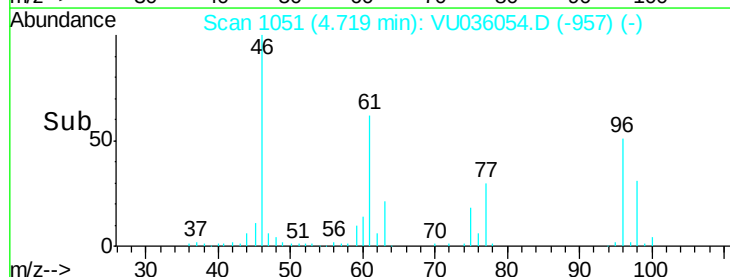
96 100

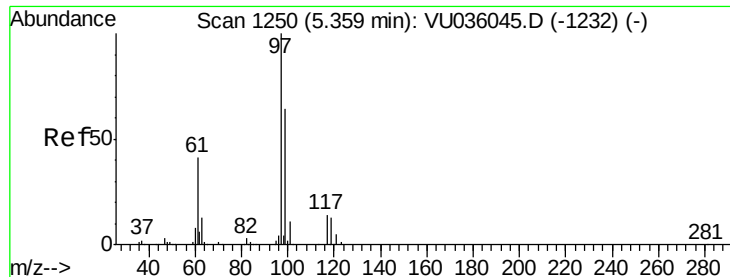
61 121.3 83.0 154.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036054.D (-1032) (-)

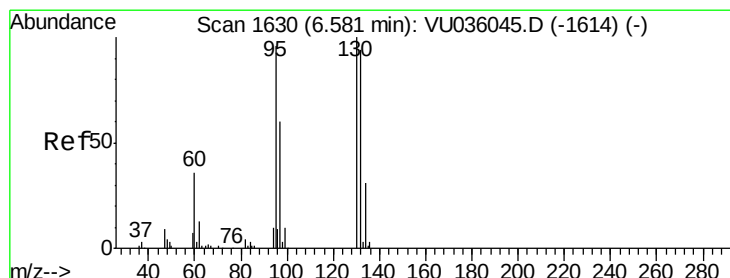
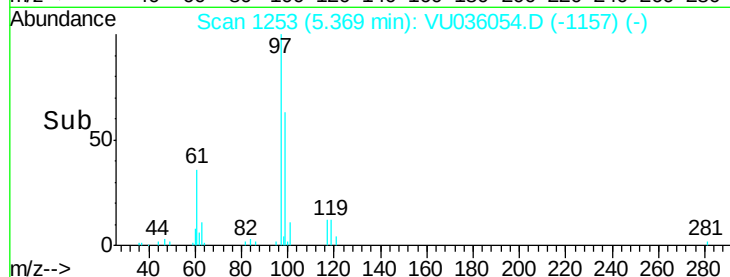
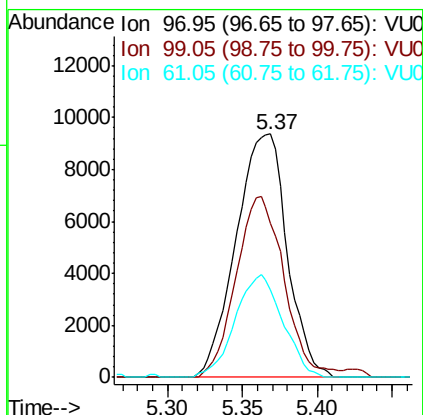
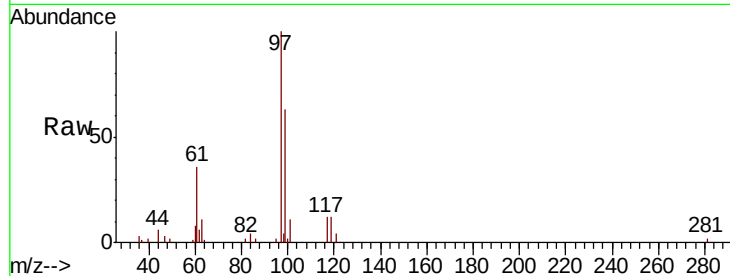




#29  
1,1,1-Trichloroethane  
Concen: 0.688 ug/L  
RT: 5.37 min Scan# 1253  
Delta R.T. 0.01 min  
Lab File: VU036054.D  
Acq: 09 Dec 2019 18:03

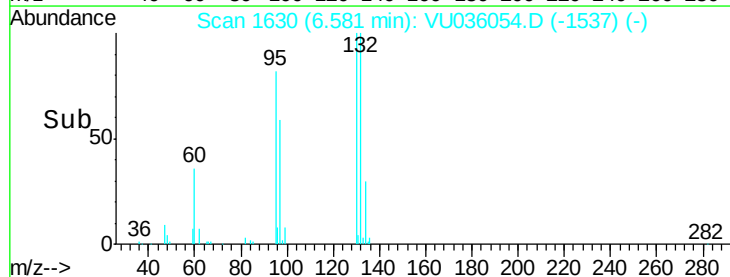
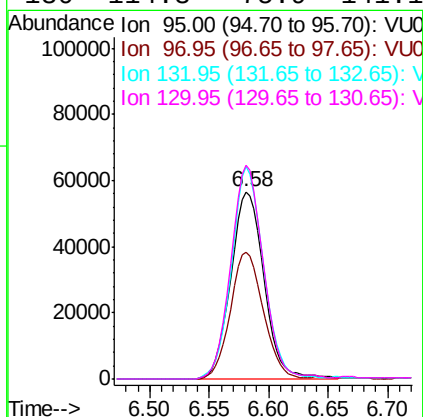
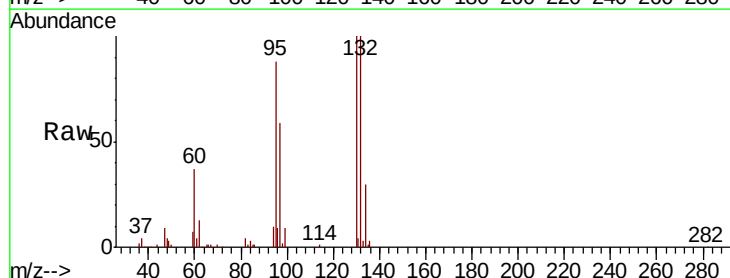
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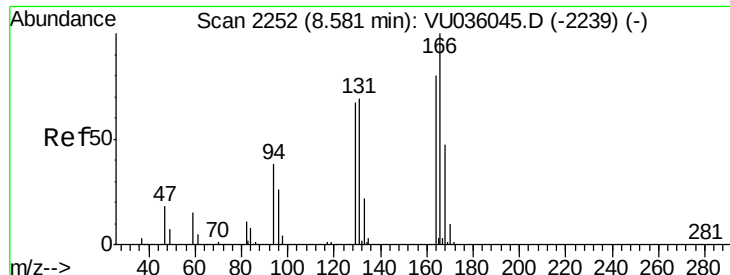
Tot Ion: 97 Resp: 22267  
Ion Ratio Lower Upper  
97 100  
99 70.0 52.2 78.2  
61 39.1 34.7 52.1



#34  
Trichloroethene  
Concen: 5.297 ug/L  
RT: 6.58 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VU036054.D  
Acq: 09 Dec 2019 18:03

Tgt Ion: 95 Resp: 110313  
Ion Ratio Lower Upper  
95 100  
97 67.7 44.4 82.4  
132 113.9 73.4 136.4  
130 114.3 75.9 141.1





#47

Tetrachloroethene

Concen: 11.846 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU036054.D

Acq: 09 Dec 2019 18:03

Instrument :

MSVOA\_U

ClientSampleId :

BFE32DL

Tot Ion:164 Resp: 234530

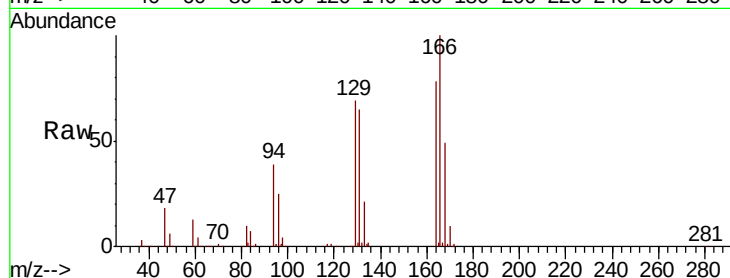
Ion Ratio Lower Upper

164 100

129 89.3 63.1 117.3

131 84.0 61.5 114.1

166 129.0 91.0 169.0



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

