

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120319\  
 Data File : VU035957.D  
 Acq On : 03 Dec 2019 19:09  
 Operator : JC/SP  
 Sample : K6105-06  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFE26

Quant Time: Dec 04 05:33:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Dec 04 03:35:54 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 328794   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 353133   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 117689   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 166068   | 4.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 88.60%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 134730   | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 89.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 188346   | 3.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 70.00%  |
| 20) 2-Butanone-d5              | 4.70   | 46    | 364931   | 54.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 109.96% |
| 24) Chloroform-d               | 5.11   | 84    | 230225   | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 130721   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.00%  |
| 32) Benzene-d6                 | 5.77   | 84    | 457589   | 4.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 153474   | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.60%  |
| 41) Toluene-d8                 | 7.93   | 98    | 380151   | 3.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 79.00%  |
| 43) trans-1,3-Dichloropropene- | 8.22   | 79    | 56147    | 4.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 82.20%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 270883   | 50.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.70% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 132527   | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 93.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 118384   | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.40%  |

## Target Compounds

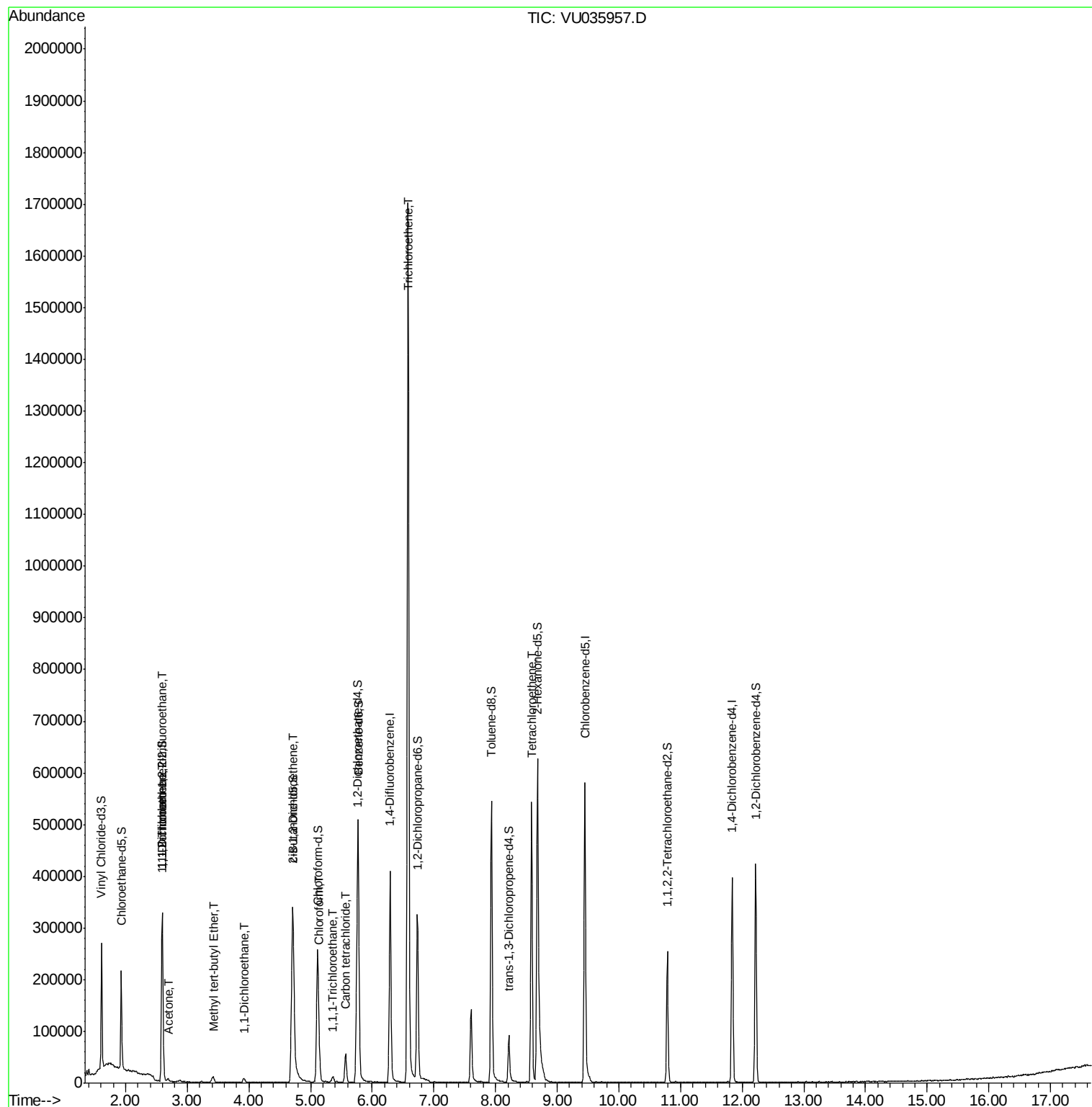
| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101  | 4390     | 0.174  | ug/L # | 79     |
| 12) 1,1-Dichloroethene         | 2.61 | 96   | 20756    | 0.881  | ug/L # | 1      |
| 13) Acetone                    | 2.68 | 43   | 6084     | 1.014  | ug/L   | 68     |
| 17) Methyl tert-butyl Ether    | 3.42 | 73   | 12339    | 0.224  | ug/L # | 89     |
| 19) 1,1-Dichloroethane         | 3.92 | 63   | 10562    | 0.217  | ug/L   | 95     |
| 22) cis-1,2-Dichloroethene     | 4.72 | 96   | 99214    | 3.764  | ug/L   | 95     |
| 25) Chloroform                 | 5.14 | 83   | 47389    | 0.963  | ug/L   | 97     |
| 29) 1,1,1-Trichloroethane      | 5.37 | 97   | 7255     | 0.170  | ug/L # | 77     |
| 31) Carbon tetrachloride       | 5.57 | 117  | 36957    | 0.976  | ug/L   | 98     |
| 34) Trichloroethene            | 6.58 | 95   | 597263   | 21.268 | ug/L   | 99     |
| 47) Tetrachloroethene          | 8.58 | 164  | 125459   | 5.497  | ug/L   | 96     |

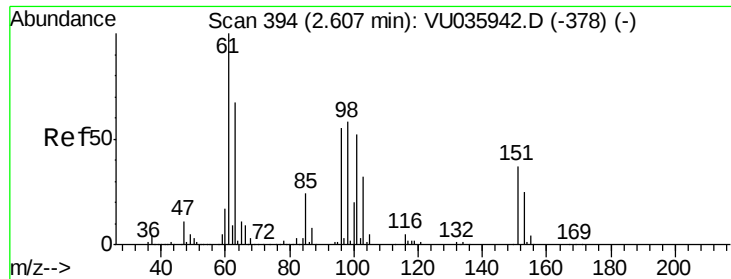
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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Quant Time: Dec 04 05:33:03 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120319WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Dec 04 03:35:54 2019  
Response via : Initial Calibration





#10

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

Concen: 0.174 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.01 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

Instrument :

MSVOA\_U

ClientSampleId :

BFE26

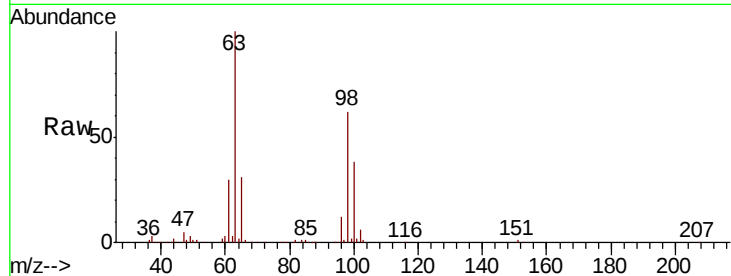
Tot Ion:101 Resp: 4390

Ion Ratio Lower Upper

101 100

85 31.1 35.5 53.3#

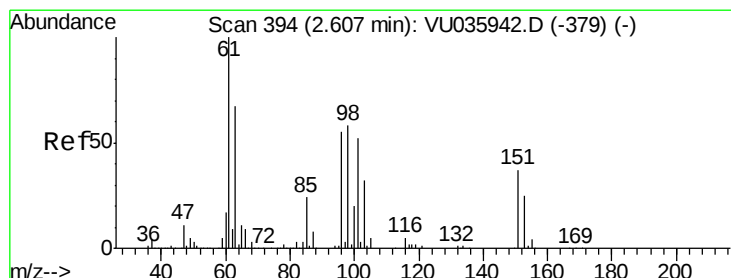
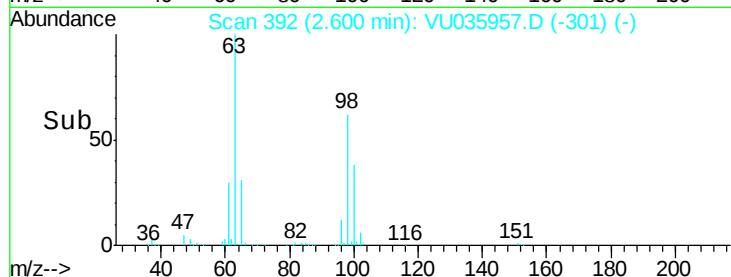
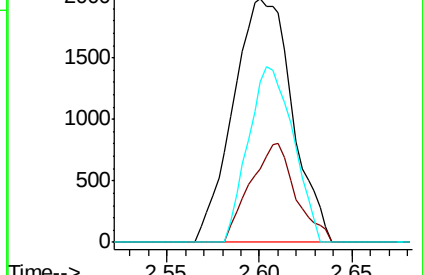
151 54.7 57.5 86.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.881 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

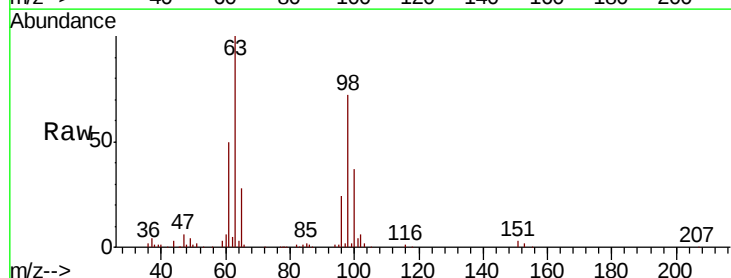
Tgt Ion: 96 Resp: 20756

Ion Ratio Lower Upper

96 100

61 211.6 127.1 236.1

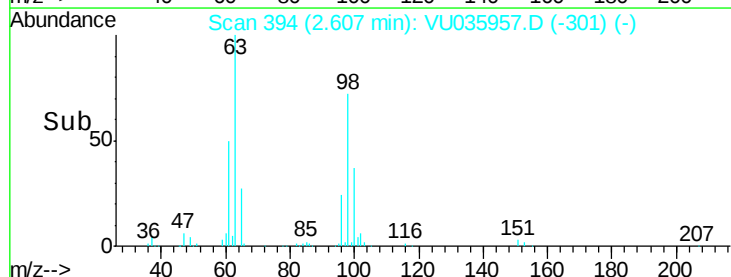
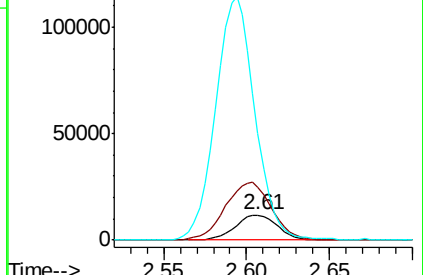
63 421.1 86.0 159.8#

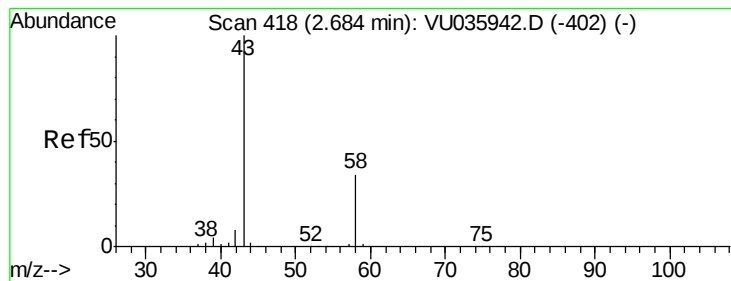


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.014 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.00 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

Instrument :

MSVOA\_U

ClientSampleId :

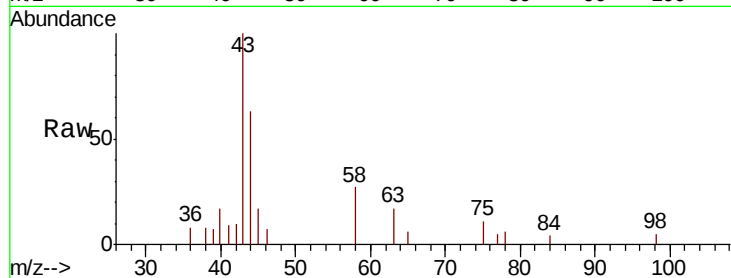
BFE26

Tot Ion: 43 Resp: 6084

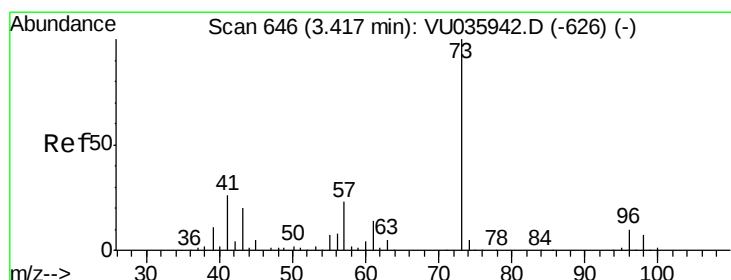
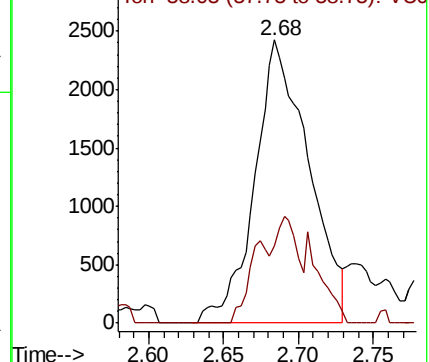
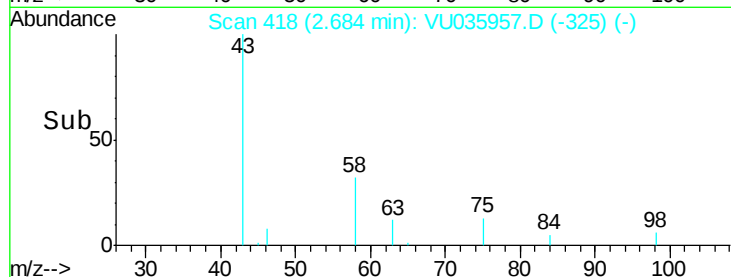
Ion Ratio Lower Upper

43 100

58 15.8 0.0 68.6



Abundance Ion 43.05 (42.75 to 43.75): VU035957.D (-325) (-)



#17

Methyl tert-butyl Ether

Concen: 0.224 ug/L

RT: 3.42 min Scan# 648

Delta R.T. 0.01 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

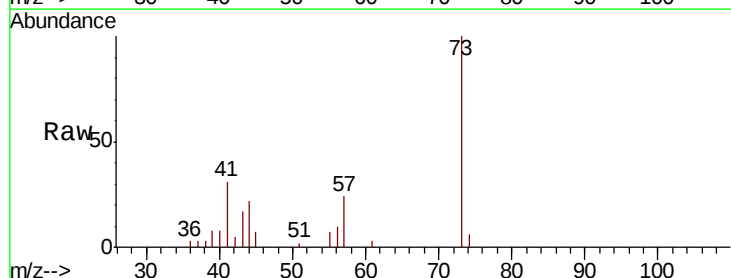
Tgt Ion: 73 Resp: 12339

Ion Ratio Lower Upper

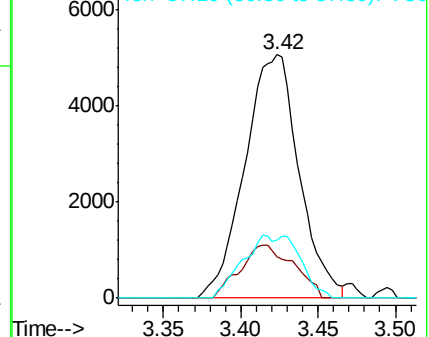
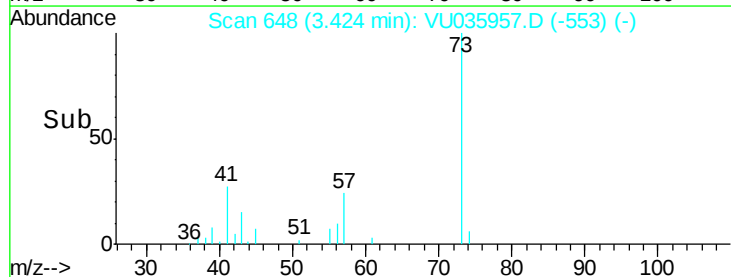
73 100

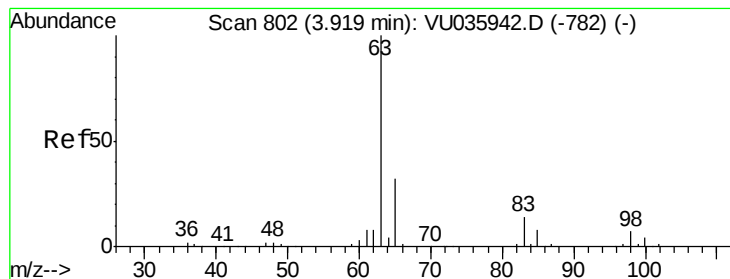
43 21.6 15.9 23.9

57 14.8 18.8 28.2#



Abundance Ion 73.10 (72.80 to 73.80): VU035957.D (-553) (-)





#19

1,1-Dichloroethane

Concen: 0.217 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.00 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

Instrument :

MSVOA\_U

ClientSampled :

BFE26

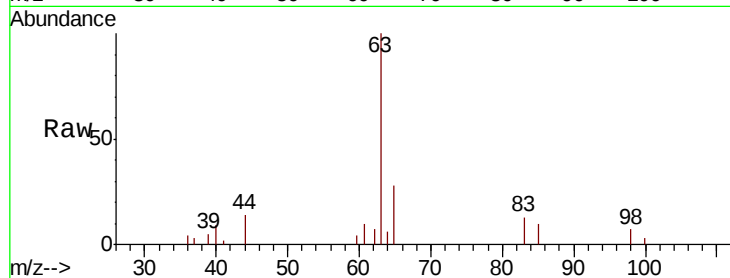
Tot Ion: 63 Resp: 10562

Ion Ratio Lower Upper

63 100

65 28.1 22.4 41.6

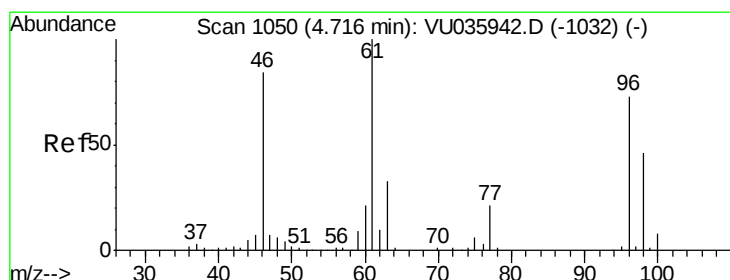
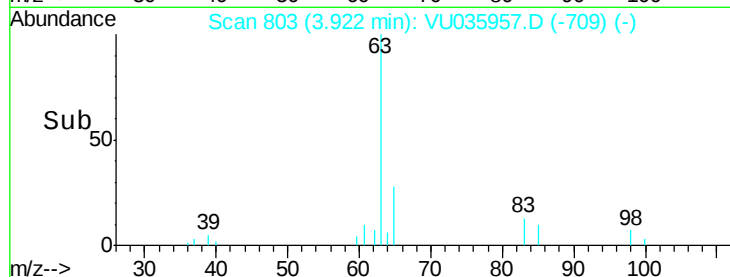
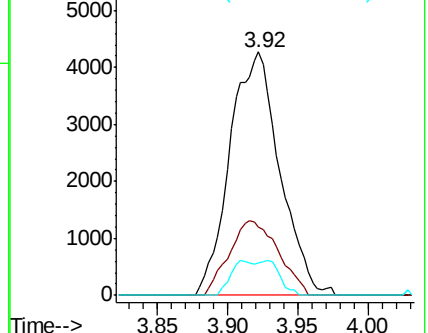
83 13.4 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VU035957.D (-709) (-)

Ion 65.10 (64.80 to 65.80): VU035957.D (-709) (-)

Ion 83.05 (82.75 to 83.75): VU035957.D (-709) (-)



#22

cis-1,2-Dichloroethene

Concen: 3.764 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU035957.D

Acq: 03 Dec 2019 19:09

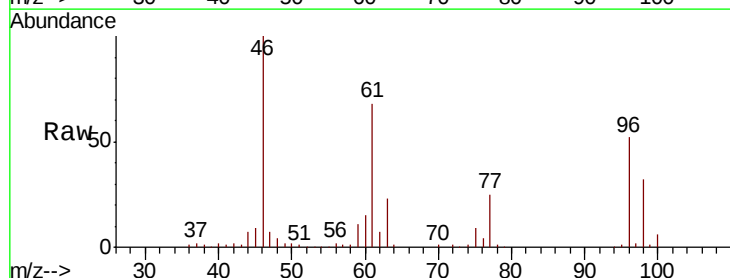
Tgt Ion: 96 Resp: 99214

Ion Ratio Lower Upper

96 100

61 130.5 95.7 177.7

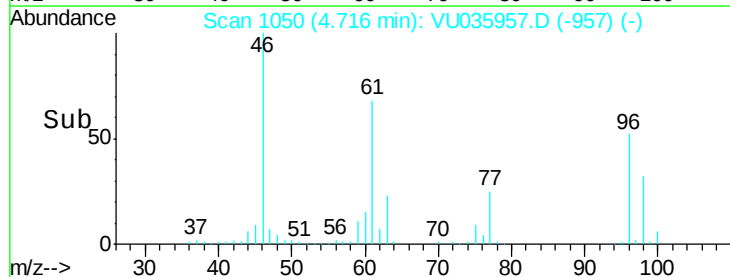
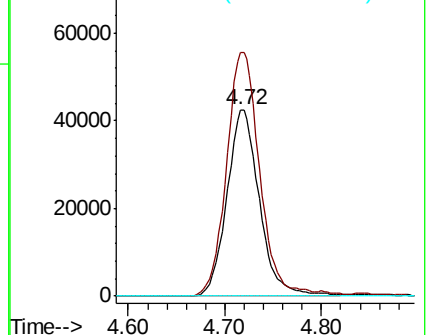
68 0.0 0.0 0.0

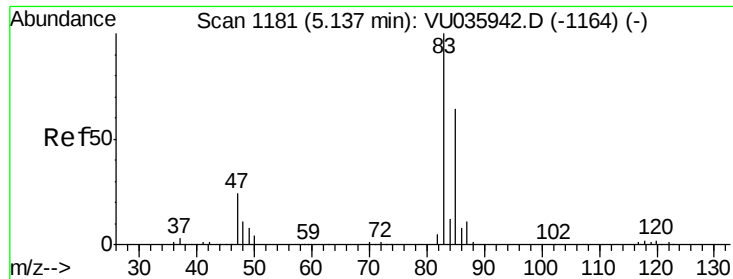


Abundance Ion 96.00 (95.70 to 96.70): VU035957.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU035957.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU035957.D (-957) (-)

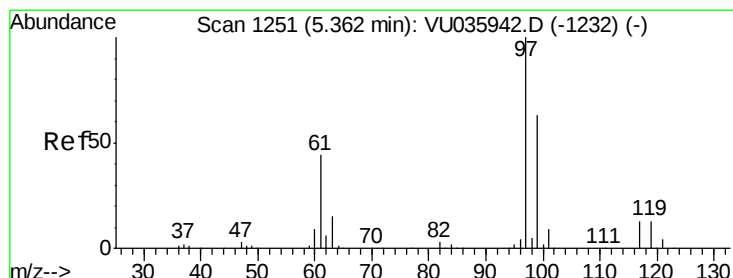
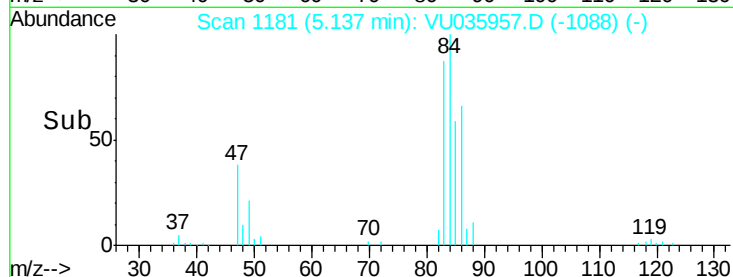
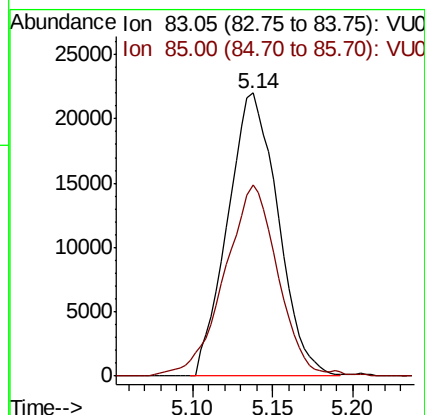
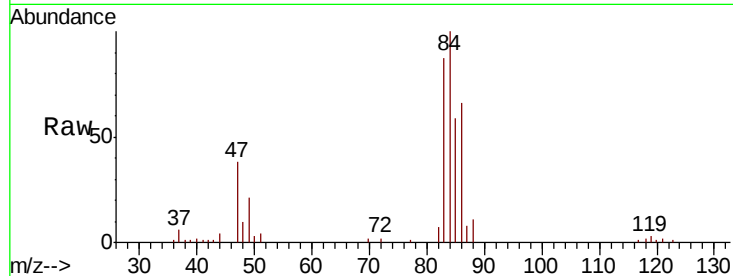




#25  
Chloroform  
Concen: 0.963 ug/L  
RT: 5.14 min Scan# 1181  
Delta R.T. 0.00 min  
Lab File: VU035957.D  
Acq: 03 Dec 2019 19:09

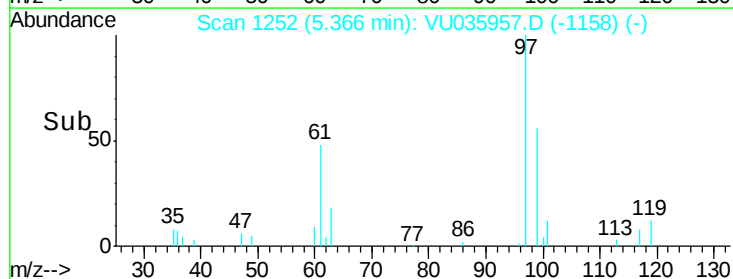
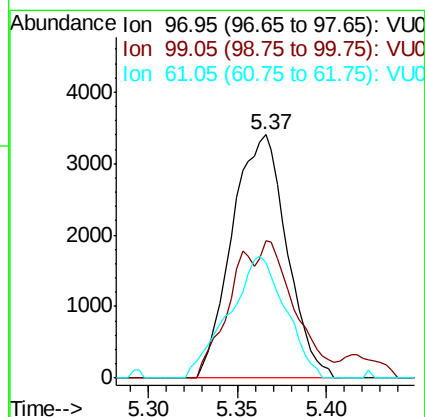
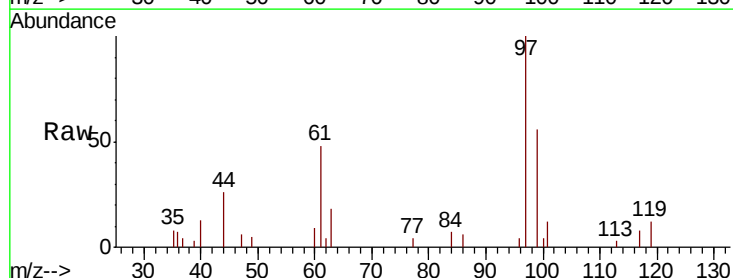
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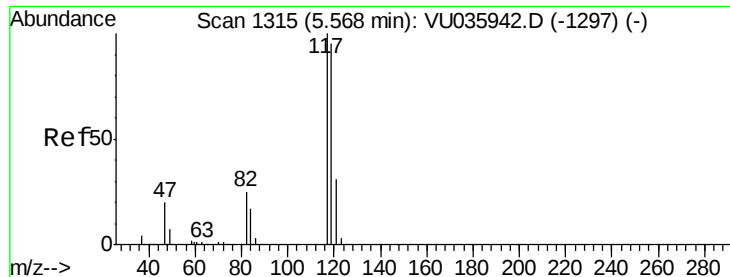
Tot Ion: 83 Resp: 47389  
Ion Ratio Lower Upper  
83 100  
85 67.4 45.4 84.2



#29  
1,1,1-Trichloroethane  
Concen: 0.170 ug/L  
RT: 5.37 min Scan# 1252  
Delta R.T. 0.00 min  
Lab File: VU035957.D  
Acq: 03 Dec 2019 19:09

Tgt Ion: 97 Resp: 7255  
Ion Ratio Lower Upper  
97 100  
99 37.4 51.8 77.8#  
61 51.8 37.6 56.4

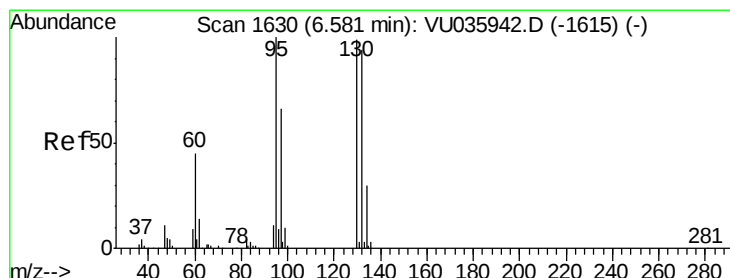
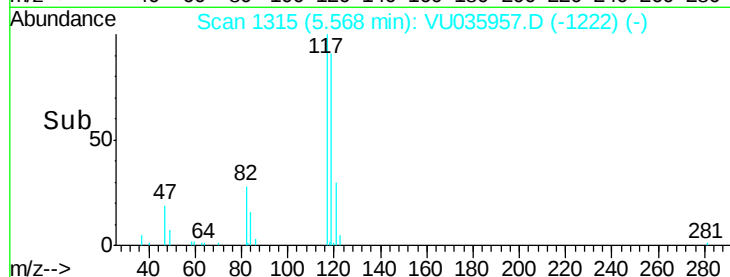
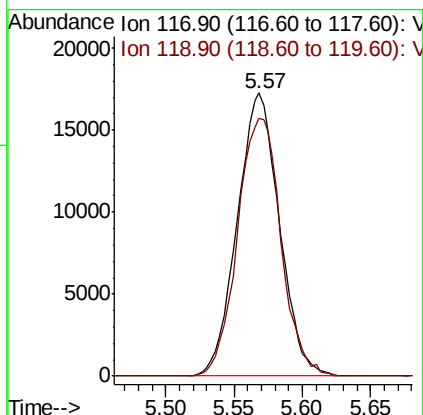
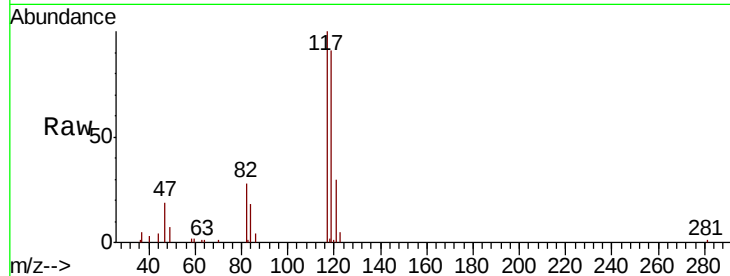




#31  
Carbon tetrachloride  
Concen: 0.976 ug/L  
RT: 5.57 min Scan# 1315  
Delta R.T. 0.00 min  
Lab File: VU035957.D  
Acq: 03 Dec 2019 19:09

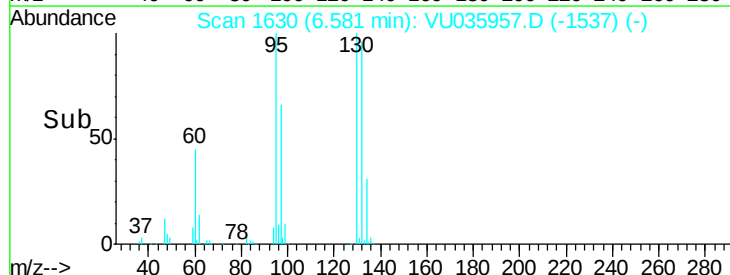
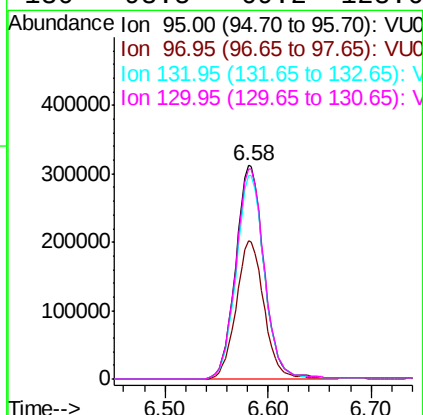
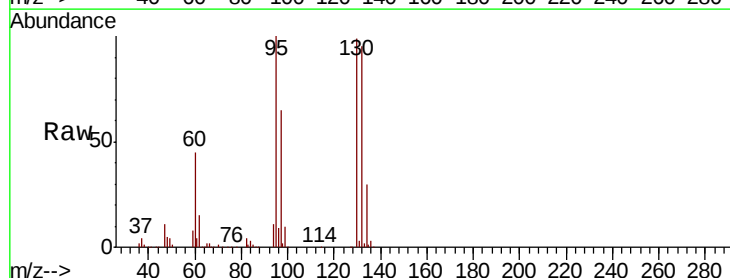
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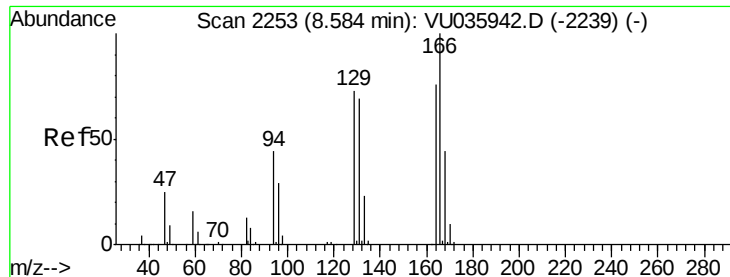
Tot Ion:117 Resp: 36957  
Ion Ratio Lower Upper  
117 100  
119 93.9 76.9 115.3



#34  
Trichloroethene  
Concen: 21.268 ug/L  
RT: 6.58 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VU035957.D  
Acq: 03 Dec 2019 19:09

Tgt Ion: 95 Resp: 597263  
Ion Ratio Lower Upper  
95 100  
97 64.8 46.3 85.9  
132 95.1 65.7 122.1  
130 98.5 69.2 128.6





#47

Tetrachloroethene

Concen: 5.497 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU035957.D

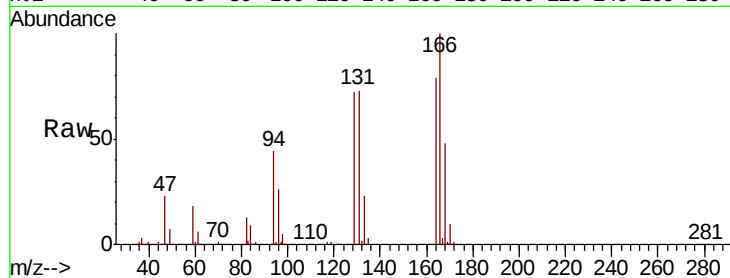
Acq: 03 Dec 2019 19:09

Instrument :

MSVOA\_U

ClientSampleId :

BFE26



Tot Ion:164 Resp: 125459

Ion Ratio Lower Upper

164 100

129 91.1 67.9 126.1

131 92.9 64.1 119.1

166 126.6 92.6 172.0

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

