

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\  
 Data File : VU030737.D  
 Acq On : 05 Apr 2019 12:46  
 Operator : JC/SP  
 Sample : K2276-19DL 4X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF1B9DL

Quant Time: Apr 05 23:46:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 05 23:39:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 462121   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 460654   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 190705   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 198909   | 48.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 96.44%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 159168   | 50.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 101.68% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 282000   | 37.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 75.58%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 337915   | 103.35   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.35% |
| 24) Chloroform-d               | 4.81    | 84    | 439      | 0.07     | ug/L | 0.16    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 0.14%#  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 222276   | 51.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.38% |
| 32) Benzene-d6                 | 5.34    | 84    | 654968   | 48.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 231506   | 50.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.46% |
| 41) Toluene-d8                 | 7.56    | 98    | 569623   | 47.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.58%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 97349    | 46.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.64%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 209222   | 99.33    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.33%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 306391   | 49.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.58%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 193946   | 51.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 103.42% |

## Target Compounds

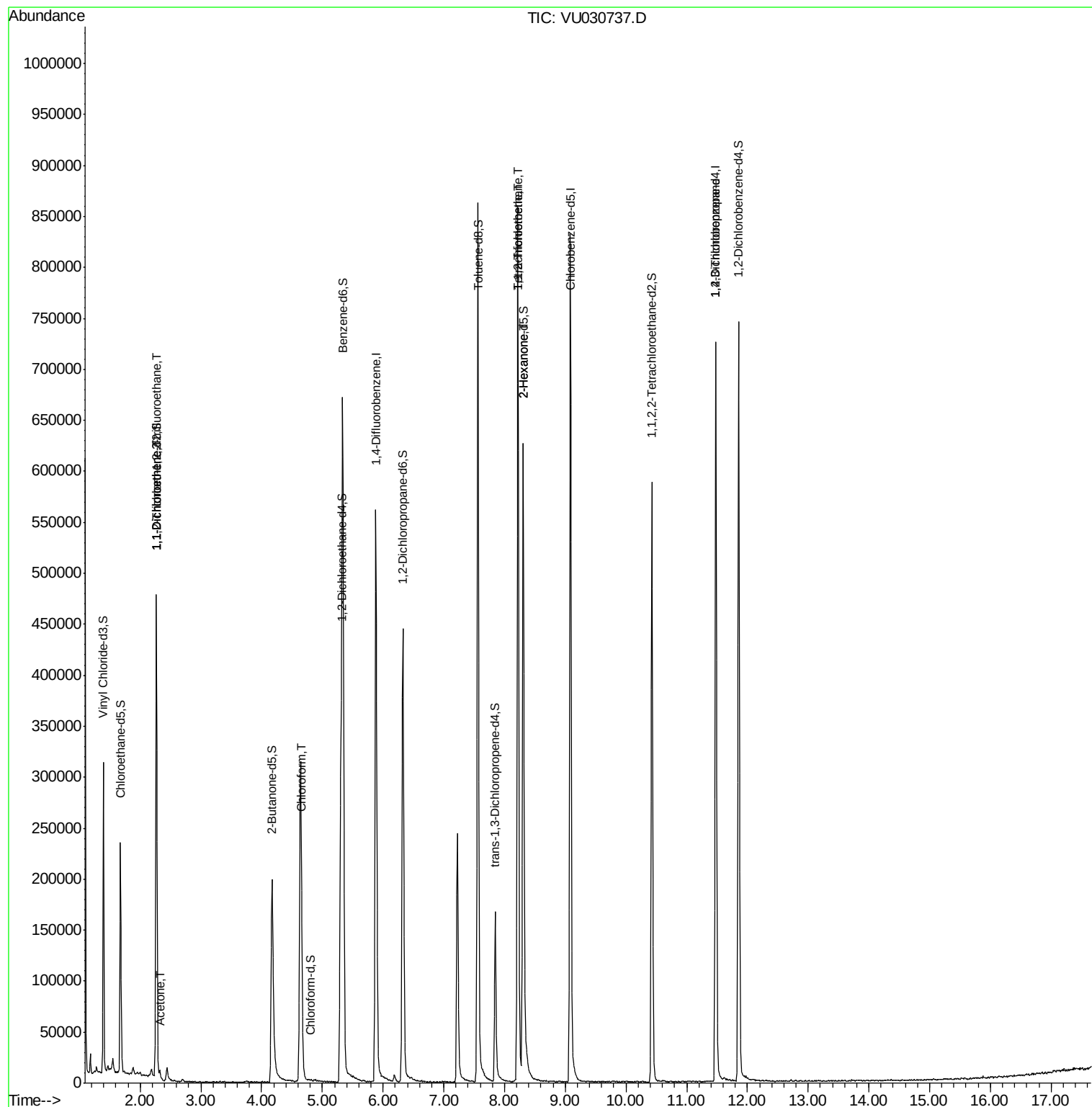
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101  | 2656     | 0.803  | ug/L # | 26     |
| 12) 1,1-Dichloroethene         | 2.27  | 96   | 2047     | 0.641  | ug/L # | 1      |
| 13) Acetone                    | 2.32  | 43   | 5009     | 1.497  | ug/L   | 88     |
| 25) Chloroform                 | 4.67  | 83   | 11639    | 1.654  | ug/L   | 89     |
| 45) 1,1,2-Trichloroethane      | 8.22  | 97   | 1749     | 0.483  | ug/L # | 1      |
| 46) Tetrachloroethene          | 8.22  | 164  | 185869   | 69.146 | ug/L   | 97     |
| 48) 2-Hexanone                 | 8.31  | 43   | 25721    | 4.803  | ug/L # | 70     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75   | 24748    | 4.841  | ug/L   | 96     |

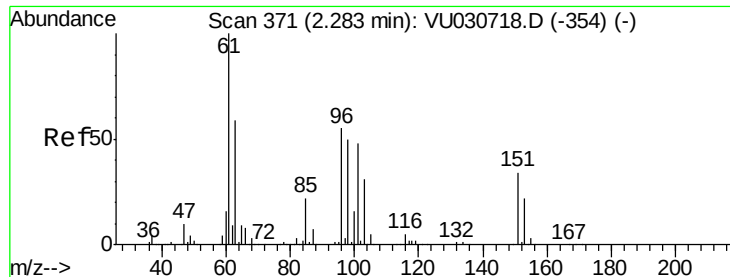
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Apr 05 23:39:17 2019  
Response via : Initial Calibration





#10

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

Concen: 0.803 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.02 min

Lab File: VU030737.D

Acq: 05 Apr 2019 12:46

Instrument :

MSVOA\_U

ClientSampled :

BF1B9DL

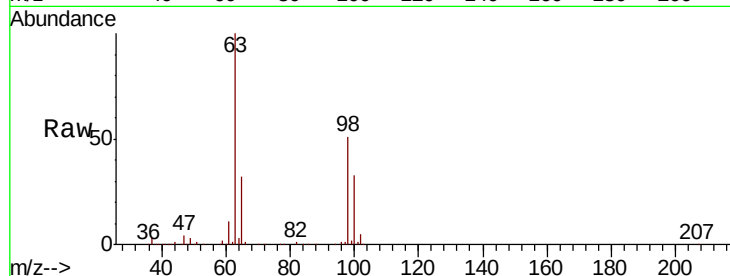
Tot Ion:101 Resp: 2656

Ion Ratio Lower Upper

101 100

85 0.0 36.8 55.2#

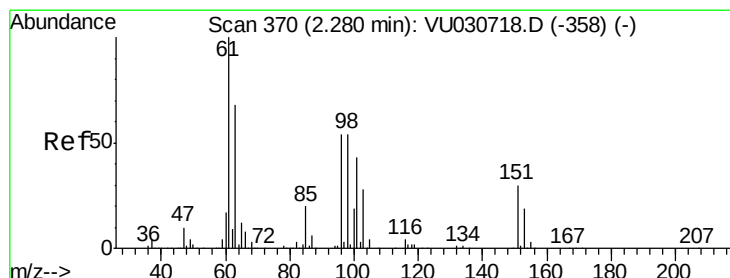
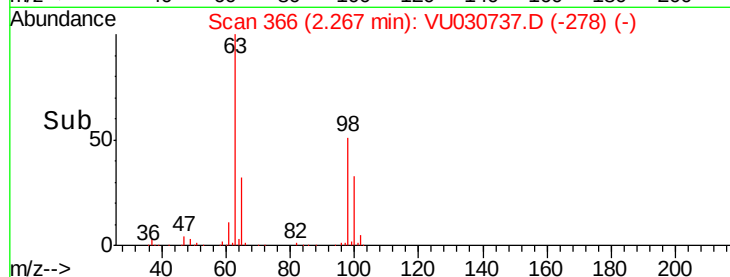
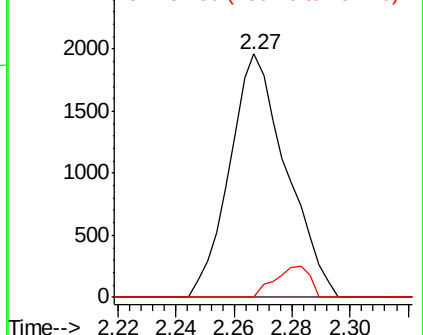
151 7.9 57.4 86.0#



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: 0.641 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU030737.D

Acq: 05 Apr 2019 12:46

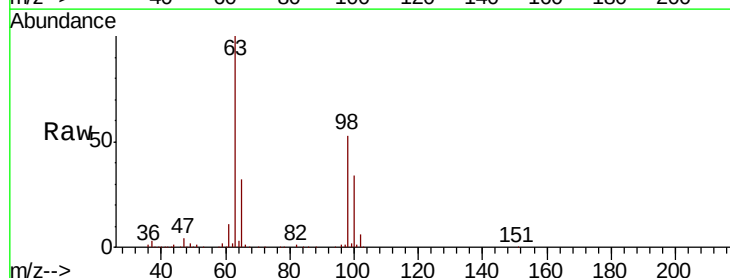
Tgt Ion: 96 Resp: 2047

Ion Ratio Lower Upper

96 100

61 1491.4 132.0 245.2#

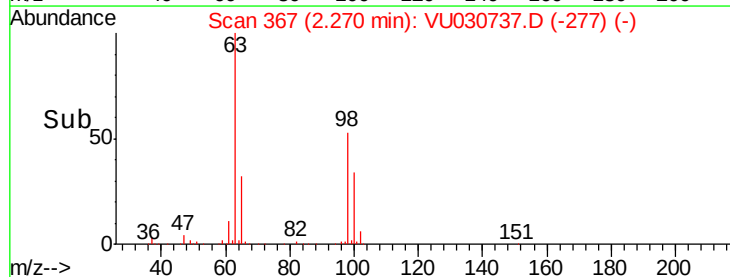
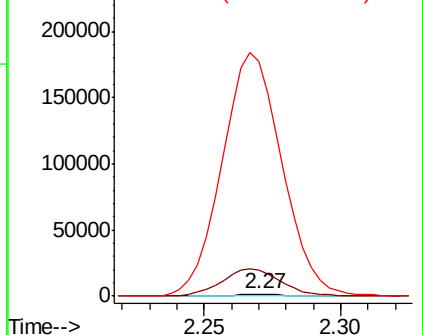
63 13345.4 90.9 168.9#

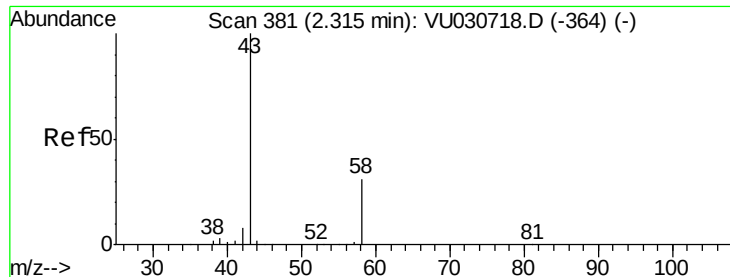


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.497 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU030737.D

Acq: 05 Apr 2019 12:46

Instrument :

MSVOA\_U

ClientSampleId :

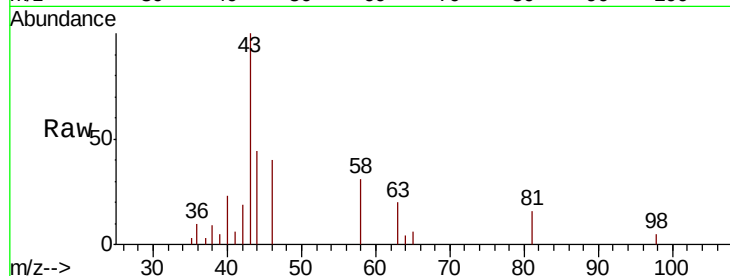
BF1B9DL

Tot Ion: 43 Resp: 5009

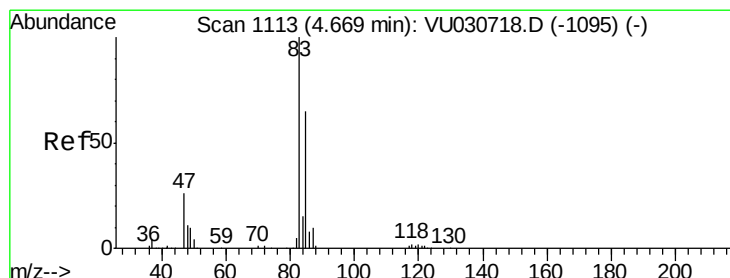
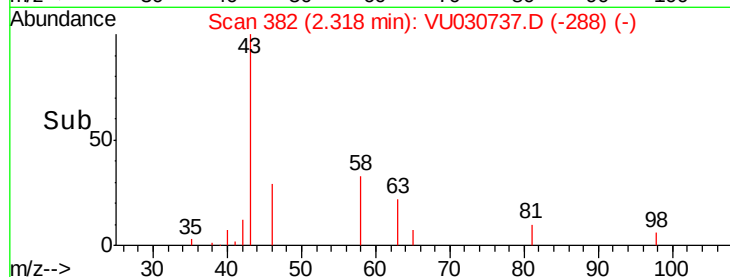
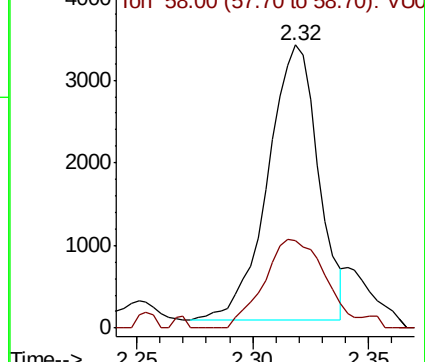
Ion Ratio Lower Upper

43 100

58 38.8 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU030737.D (-364) (-)



#25

Chloroform

Concen: 1.654 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VU030737.D

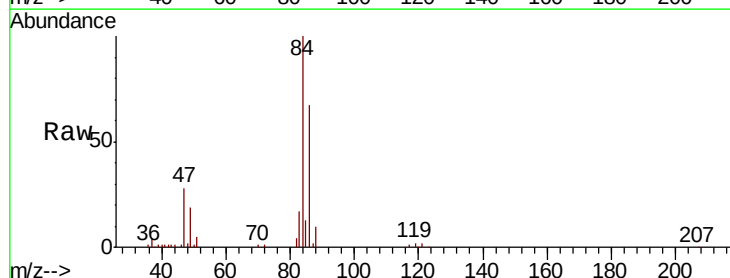
Acq: 05 Apr 2019 12:46

Tgt Ion: 83 Resp: 11639

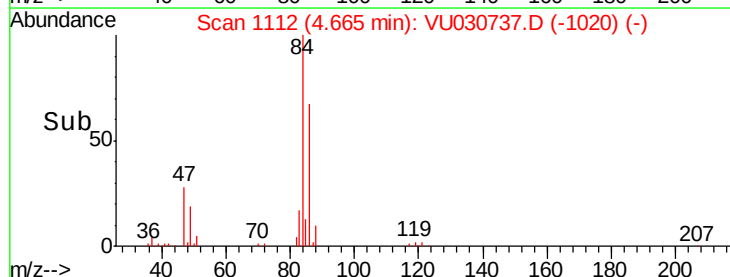
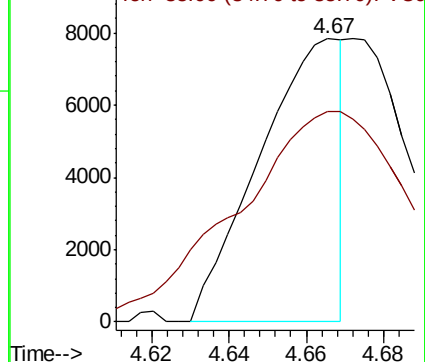
Ion Ratio Lower Upper

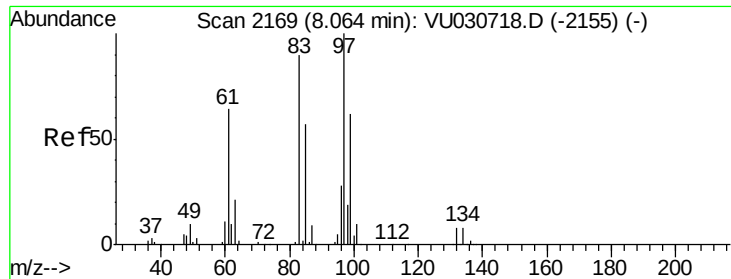
83 100

85 74.4 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VU030737.D (-1020) (-)





#45

1,1,2-Trichloroethane

Concen: 0.483 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.16 min

Lab File: VU030737.D

Acq: 05 Apr 2019 12:46

Instrument :

MSVOA\_U

ClientSampleId :

BF1B9DL

Tot Ion: 97 Resp: 1749

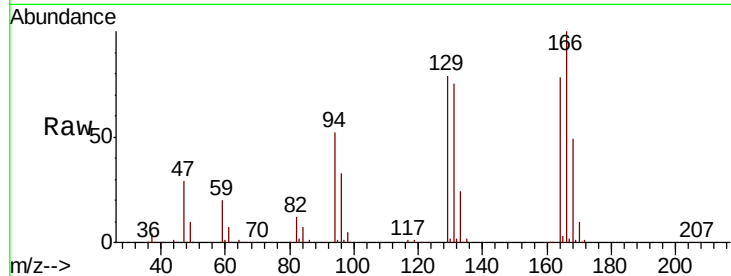
Ion Ratio Lower Upper

97 100

99 17.0 44.0 81.8#

83 265.5 65.3 121.3#

85 23.6 42.5 78.9#

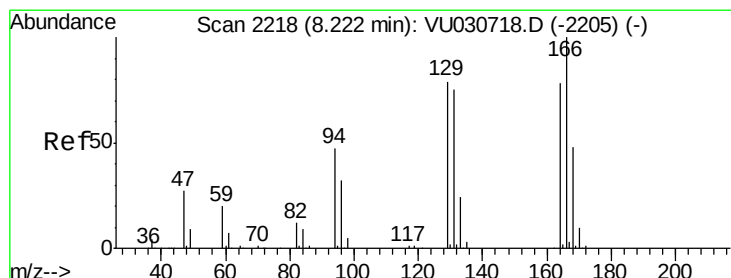
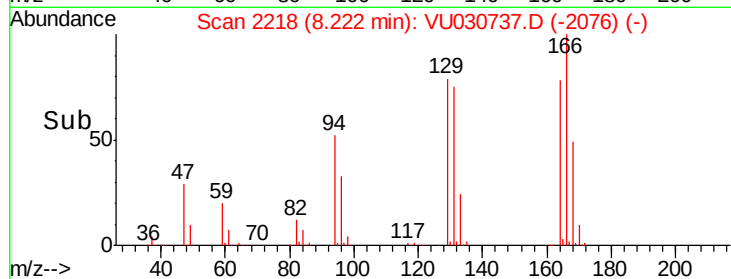
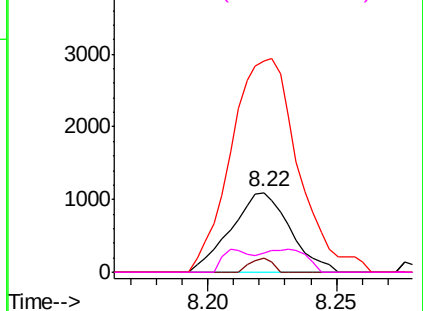


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 69.146 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU030737.D

Acq: 05 Apr 2019 12:46

Tgt Ion:164 Resp: 185869

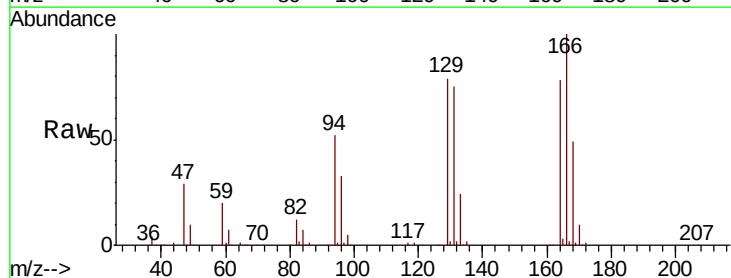
Ion Ratio Lower Upper

164 100

129 101.1 67.4 125.2

131 96.2 65.9 122.5

166 127.9 88.6 164.6

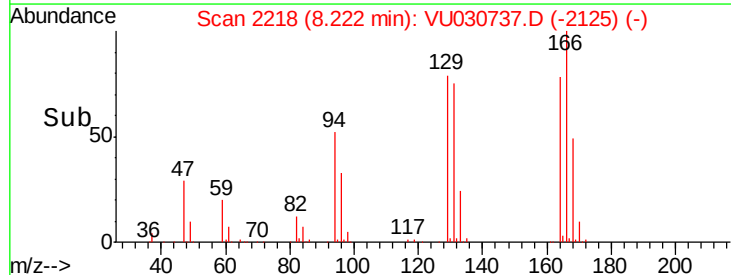
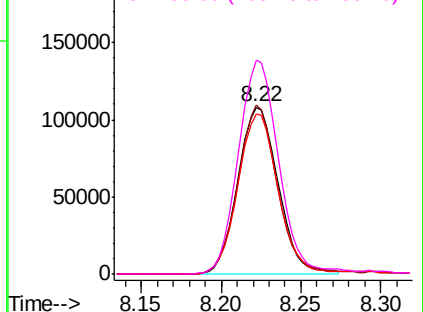


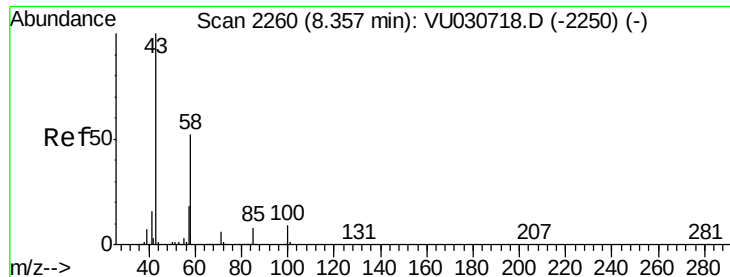
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

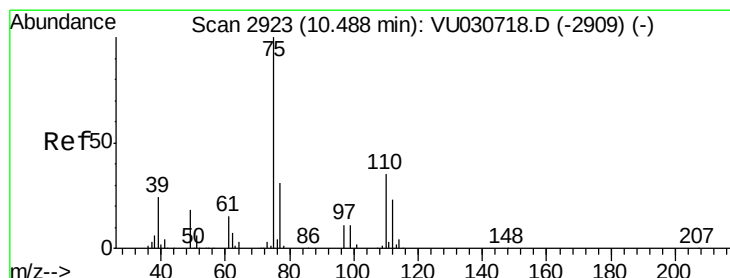
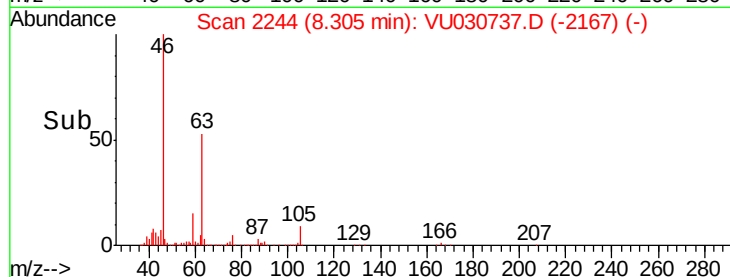
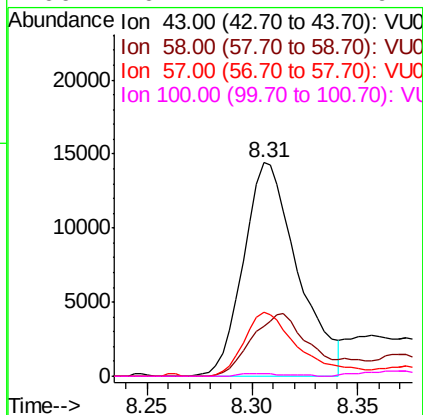
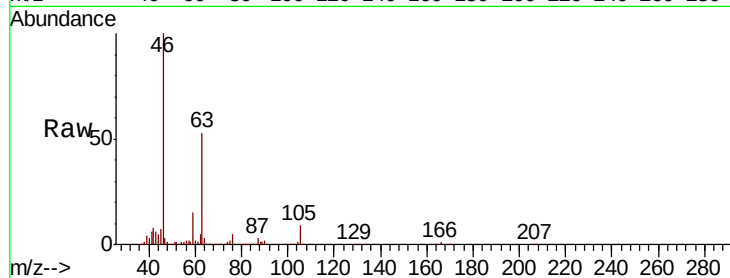




#48  
2-Hexanone  
Concen: 4.803 ug/L  
RT: 8.31 min Scan# 2244  
Delta R.T. -0.05 min  
Lab File: VU030737.D  
Acq: 05 Apr 2019 12:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF1B9DL

Tot Ion: 43 Resp: 25721  
Ion Ratio Lower Upper  
43 100  
58 30.1 41.9 62.9#  
57 30.3 14.3 21.5#  
100 0.2 7.1 10.7#



#59  
1,2,3-Trichloropropane  
Concen: 4.841 ug/L  
RT: 11.48 min Scan# 3231  
Delta R.T. 0.99 min  
Lab File: VU030737.D  
Acq: 05 Apr 2019 12:46

Tgt Ion: 75 Resp: 24748  
Ion Ratio Lower Upper  
75 100  
77 35.1 26.1 39.1

