

Data File : VU028818.D  
Acq On : 20 Dec 2018 12:41  
Operator : MD/SY  
Sample : J6487-04  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9H19

Quant Time: Dec 21 03:55:31 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 21 03:50:07 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 182014   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 170820   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 69689    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 68333    | 46.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 93.66%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 54370    | 48.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.48%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 88306    | 35.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 71.98%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 108195   | 105.83   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.83% |
| 24) Chloroform-d               | 4.65    | 84    | 111071   | 48.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.82%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 70862    | 50.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.20% |
| 32) Benzene-d6                 | 5.34    | 84    | 240119   | 49.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.52%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 85274    | 52.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 104.02% |
| 41) Toluene-d8                 | 7.56    | 98    | 214235   | 48.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.98%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 37276    | 50.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.48% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 83503    | 107.24   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 107.24% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 114214   | 50.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 100.44% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 76108    | 54.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 108.00% |

#### Target Compounds

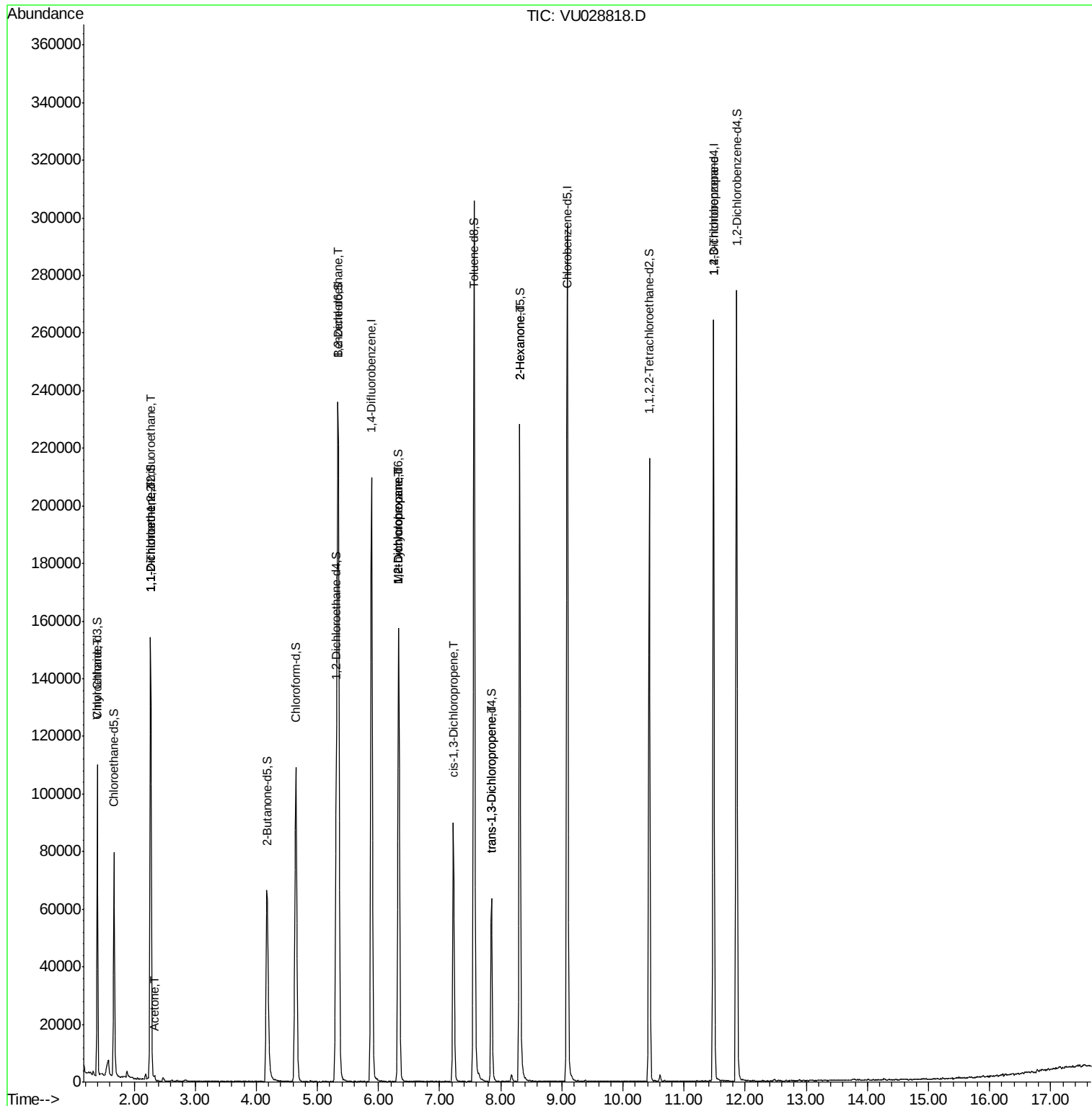
|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 8) Chloroethane                | 1.40  | 64  | 937   | 0.921 ug/L # | 1      |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 777   | 0.659 ug/L # | 20     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 719   | 0.616 ug/L # | 1      |
| 13) Acetone                    | 2.32  | 43  | 844   | 0.810 ug/L   | 86     |
| 27) 1,2-Dichloroethane         | 5.33  | 62  | 1197  | 0.689 ug/L # | 74     |
| 35) Methylcyclohexane          | 6.33  | 83  | 17816 | 8.147 ug/L # | 18     |
| 37) 1,2-Dichloropropane        | 6.33  | 63  | 8000  | 5.262 ug/L # | 90     |
| 39) cis-1,3-Dichloropropene    | 7.23  | 75  | 1967  | 0.908 ug/L # | 73     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 1369  | 0.709 ug/L # | 80     |
| 48) 2-Hexanone                 | 8.31  | 43  | 8999  | 5.366 ug/L # | 65     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 8859  | 4.883 ug/L   | 100    |

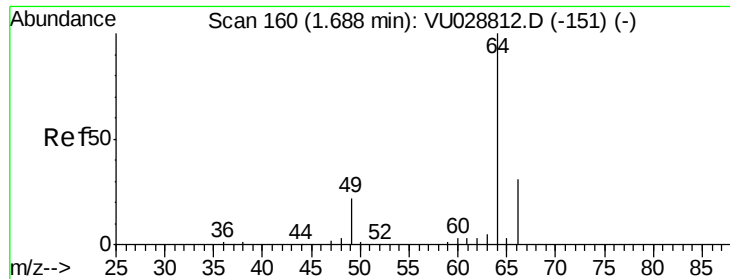
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 21 03:50:07 2018  
Response via : Initial Calibration





#8

Chloroethane

Concen: 0.921 ug/L

RT: 1.40 min Scan# 70

Delta R.T. -0.29 min

Lab File: VU028818.D

Acq: 20 Dec 2018 12:41

Instrument :

MSVOA\_U

ClientSampleId :

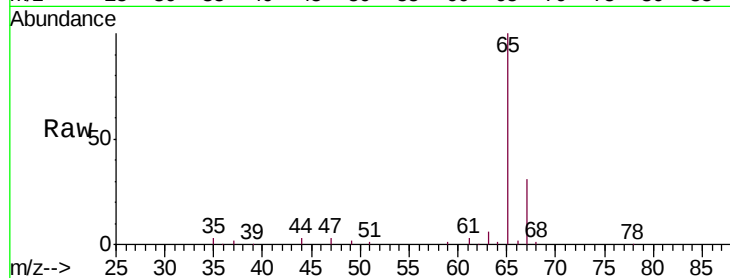
F9H19

Tgt Ion: 64 Resp: 937

Ion Ratio Lower Upper

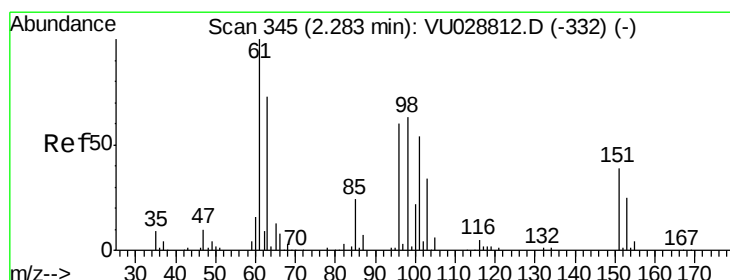
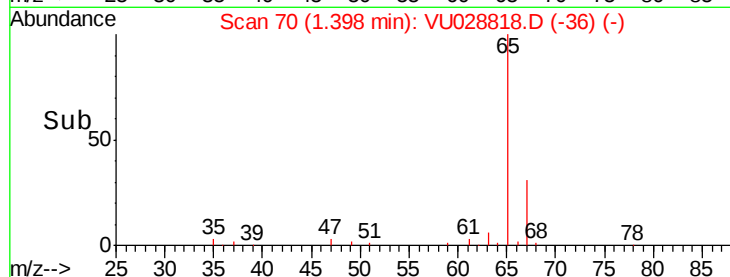
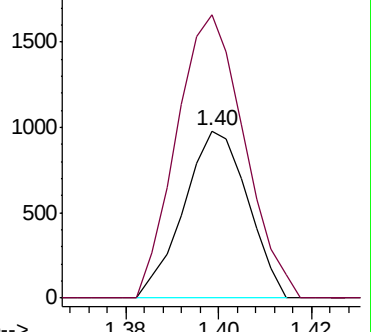
64 100

66 169.4 21.5 39.9#



Abundance Ion 64.00 (63.70 to 64.70): VU028818.D (-151) (-)

Ion 66.00 (65.70 to 66.70): VU028818.D (-151) (-)



#10

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

Concen: 0.659 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU028818.D

Acq: 20 Dec 2018 12:41

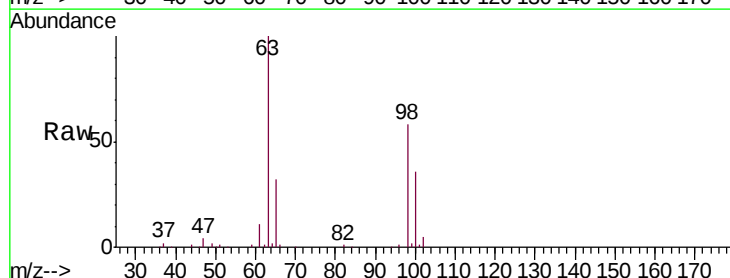
Tgt Ion: 101 Resp: 777

Ion Ratio Lower Upper

101 100

85 0.0 33.8 50.6#

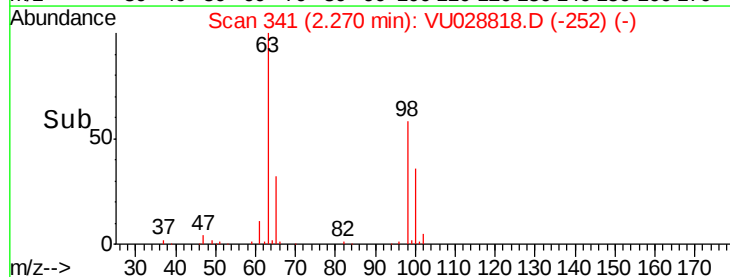
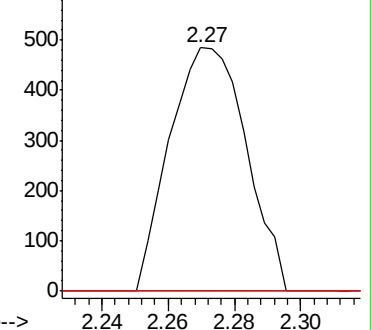
151 0.0 59.4 89.0#

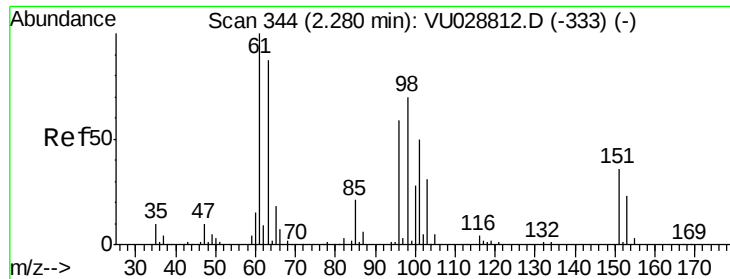


Abundance Ion 101.00 (100.70 to 101.70): VU028818.D (-332) (-)

Ion 85.00 (84.70 to 85.70): VU028818.D (-332) (-)

Ion 151.00 (150.70 to 151.70): VU028818.D (-332) (-)

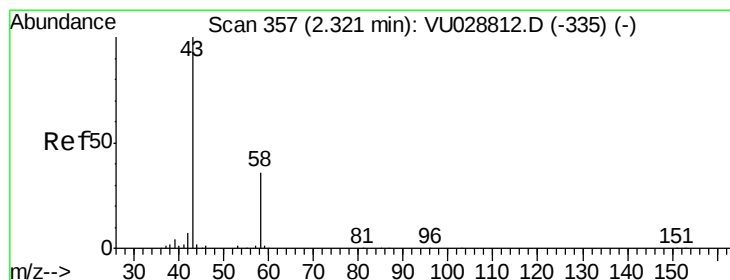
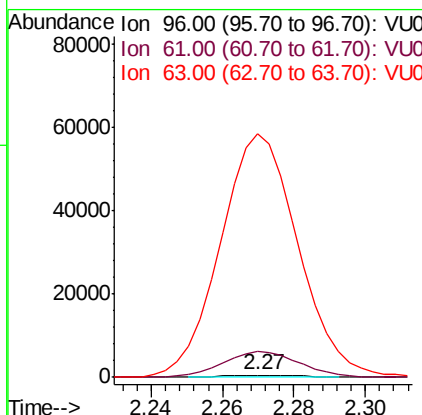
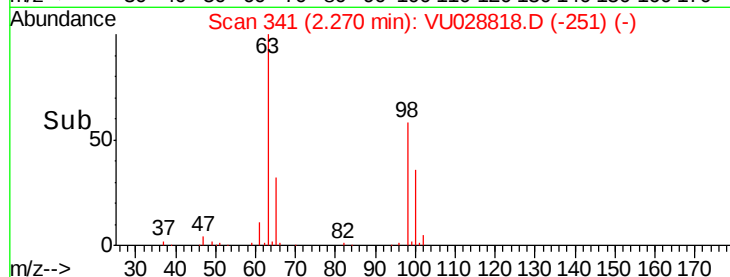
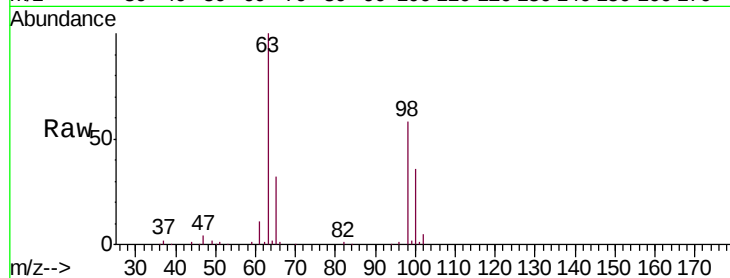




#12  
 1,1-Dichloroethene  
 Concen: 0.616 ug/L  
 RT: 2.27 min Scan# 341  
 Delta R.T. -0.01 min  
 Lab File: VU028818.D  
 Acq: 20 Dec 2018 12:41

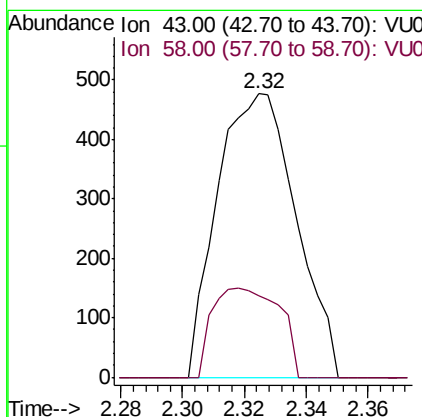
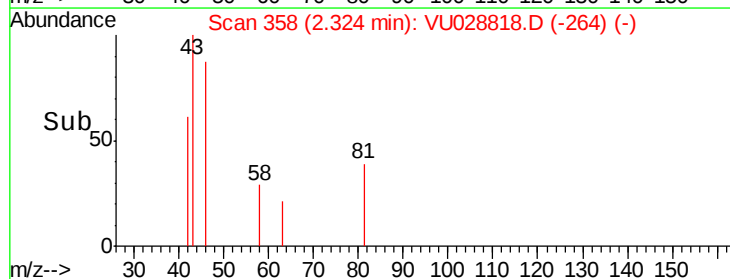
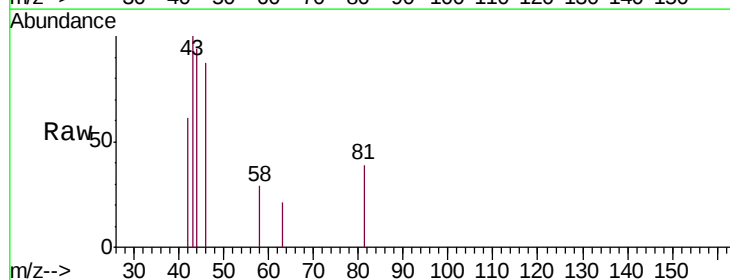
Instrument :  
 MSVOA\_U  
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 F9H19

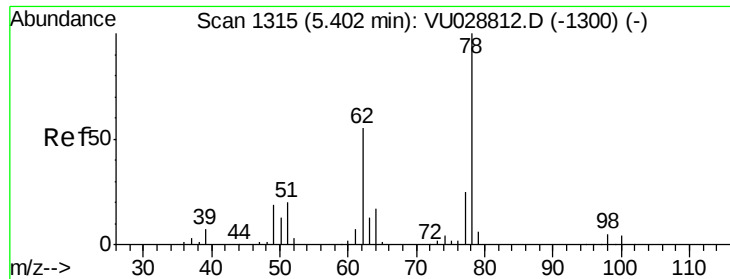
Tgt Ion: 96 Resp: 719  
 Ion Ratio Lower Upper  
 96 100  
 61 1320.3 119.3 221.5#  
 63 12457.1 107.4 199.6#



#13  
 Acetone  
 Concen: 0.810 ug/L  
 RT: 2.32 min Scan# 358  
 Delta R.T. 0.00 min  
 Lab File: VU028818.D  
 Acq: 20 Dec 2018 12:41

Tgt Ion: 43 Resp: 844  
 Ion Ratio Lower Upper  
 43 100  
 58 26.8 0.0 70.2

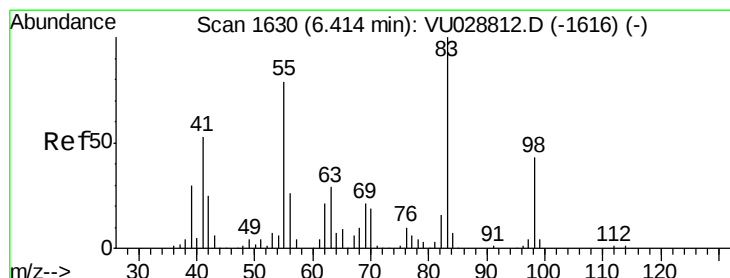
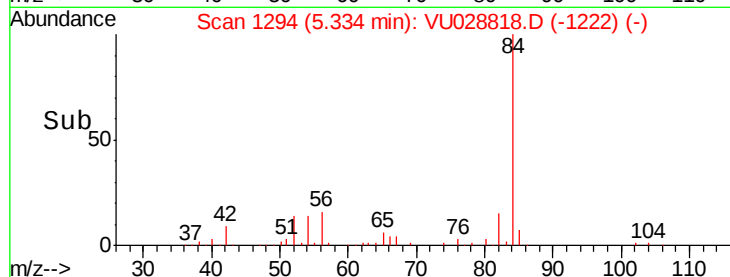
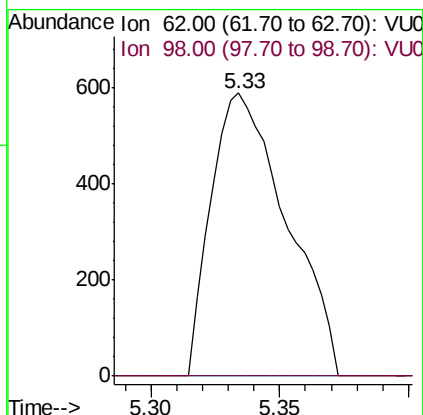
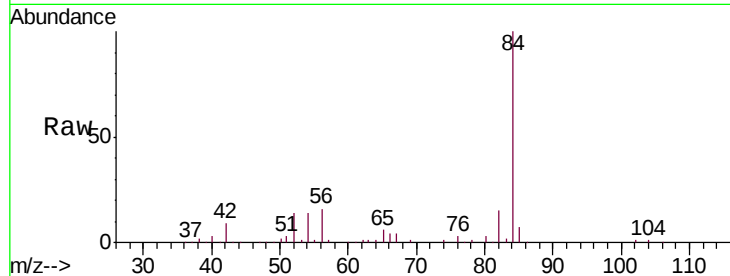




#27  
 1,2-Dichloroethane  
 Concen: 0.689 ug/L  
 RT: 5.33 min Scan# 1294  
 Delta R.T. -0.07 min  
 Lab File: VU028818.D  
 Acq: 20 Dec 2018 12:41

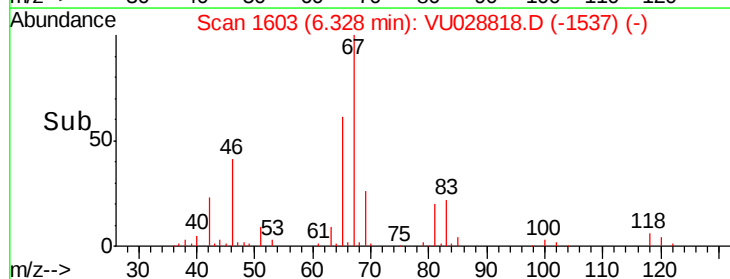
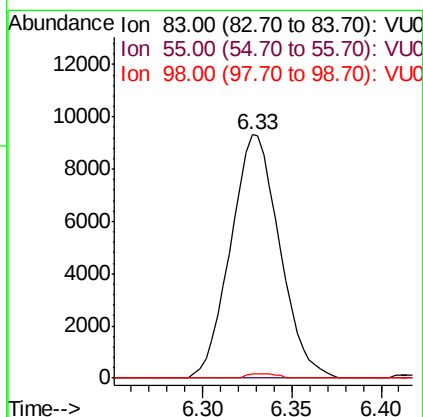
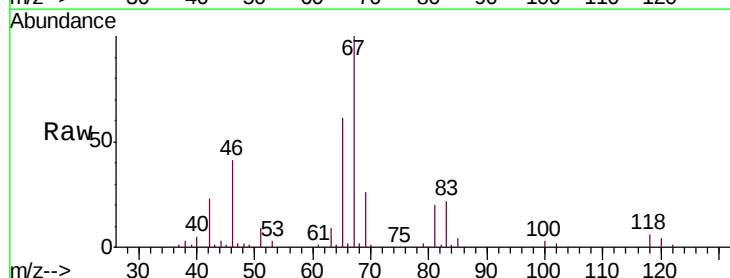
Instrument :  
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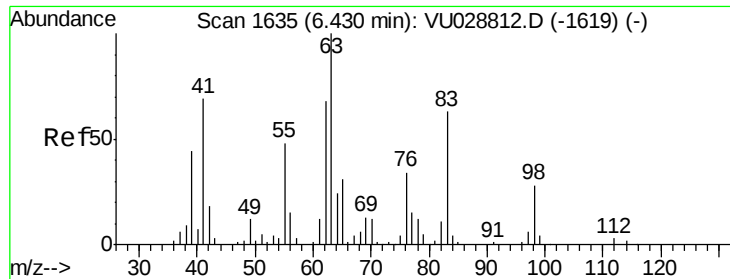
Tgt Ion: 62 Resp: 1197  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 7.5 11.3#



#35  
 Methylcyclohexane  
 Concen: 8.147 ug/L  
 RT: 6.33 min Scan# 1603  
 Delta R.T. -0.09 min  
 Lab File: VU028818.D  
 Acq: 20 Dec 2018 12:41

Tgt Ion: 83 Resp: 17816  
 Ion Ratio Lower Upper  
 83 100  
 55 0.0 63.7 95.5#  
 98 1.1 35.6 53.4#

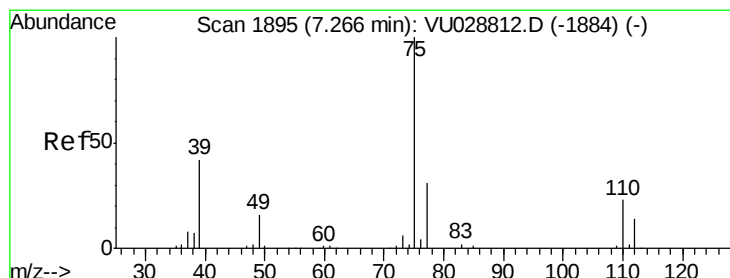
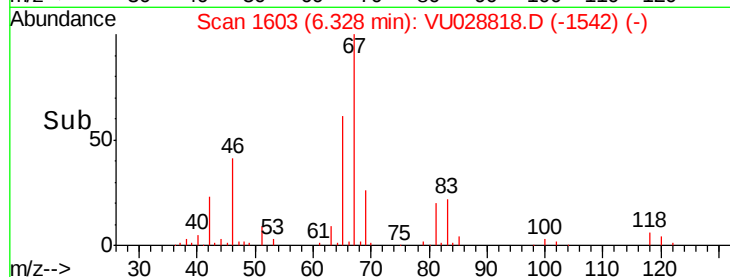
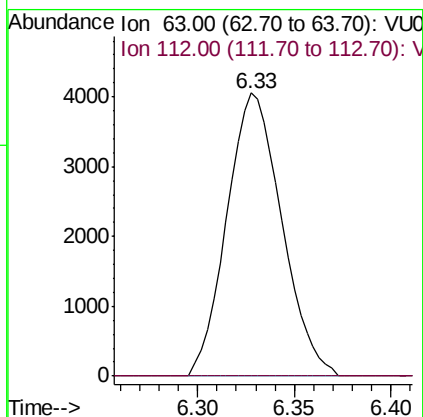
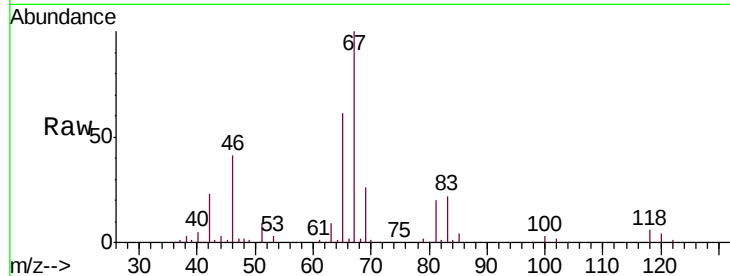




#37  
 1,2-Dichloropropane  
 Concen: 5.262 ug/L  
 RT: 6.33 min Scan# 1603  
 Delta R.T. -0.10 min  
 Lab File: VU028818.D  
 Acq: 20 Dec 2018 12:41

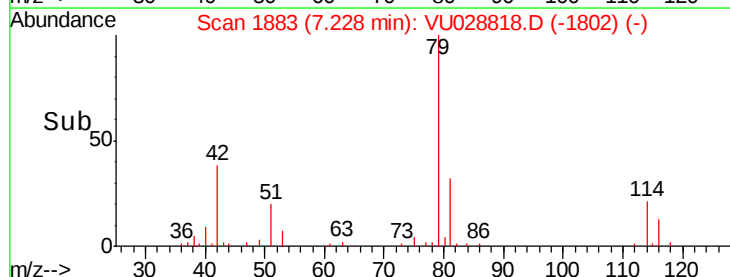
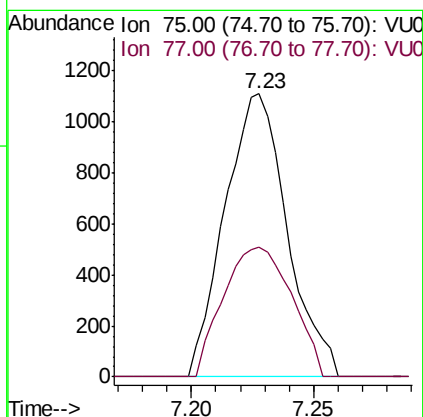
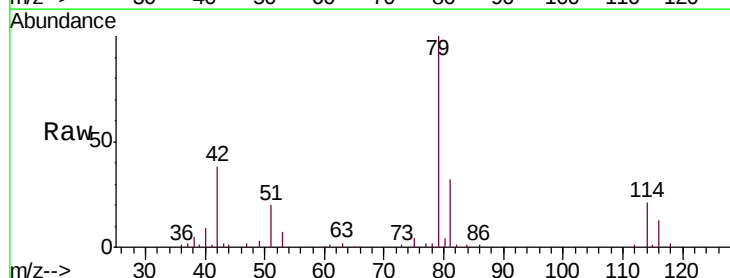
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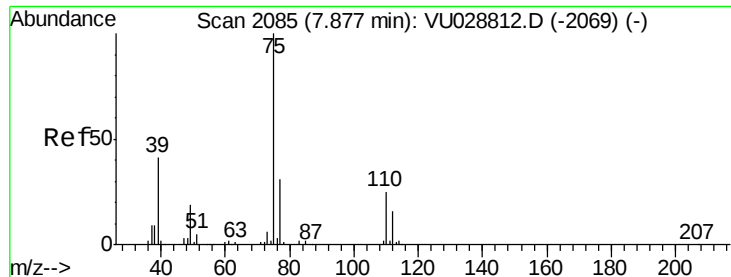
Tgt Ion: 63 Resp: 8000  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 2.7 4.1#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.908 ug/L  
 RT: 7.23 min Scan# 1883  
 Delta R.T. -0.04 min  
 Lab File: VU028818.D  
 Acq: 20 Dec 2018 12:41

Tgt Ion: 75 Resp: 1967  
 Ion Ratio Lower Upper  
 75 100  
 77 45.9 21.8 40.6#





#44

trans-1,3-Dichloropropene

Concen: 0.709 ug/L

RT: 7.85 min Scan# 2076

Delta R.T. -0.03 min

Lab File: VU028818.D

Acq: 20 Dec 2018 12:41

Instrument :

MSVOA\_U

ClientSampleId :

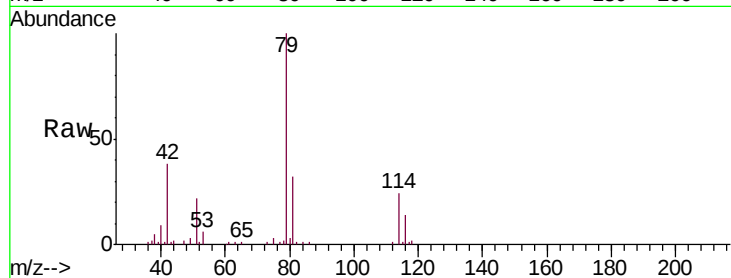
F9H19

Tgt Ion: 75 Resp: 1369

Ion Ratio Lower Upper

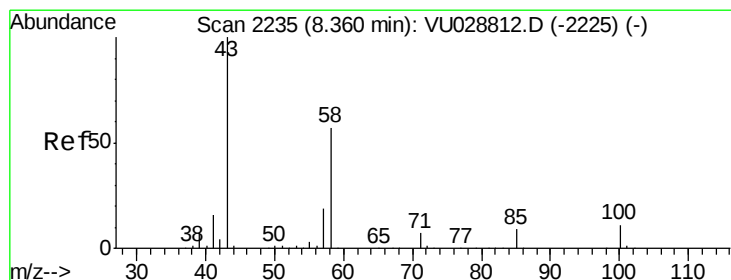
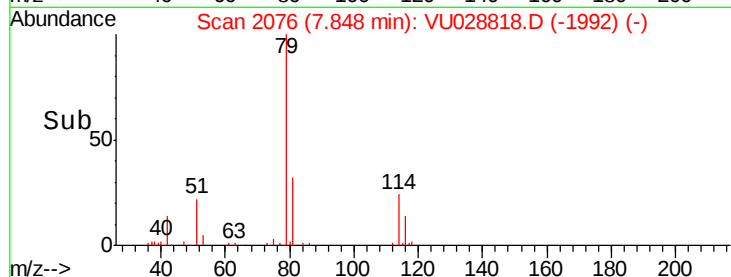
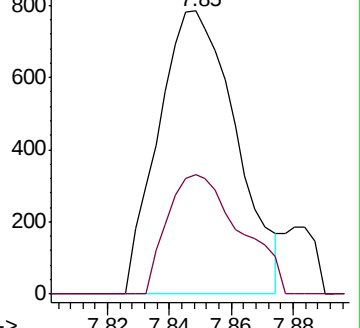
75 100

77 42.1 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#48

2-Hexanone

Concen: 5.366 ug/L

RT: 8.31 min Scan# 2219

Delta R.T. -0.05 min

Lab File: VU028818.D

Acq: 20 Dec 2018 12:41

Tgt Ion: 43 Resp: 8999

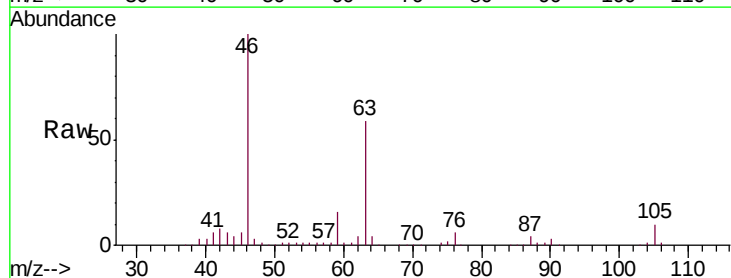
Ion Ratio Lower Upper

43 100

58 24.2 45.9 68.9#

57 22.6 15.0 22.4#

100 0.0 8.7 13.1#

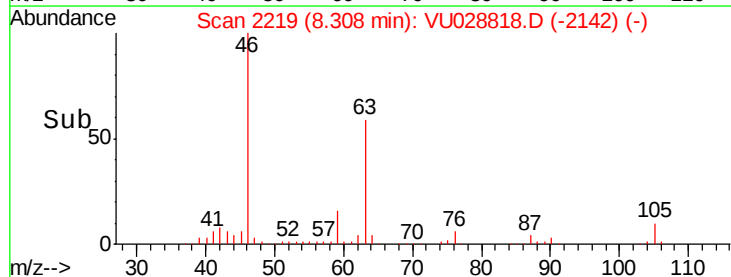
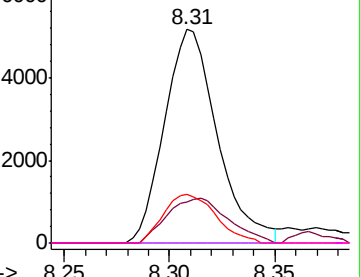


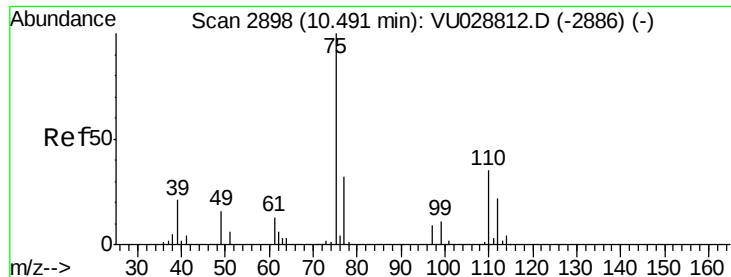
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#59

1,2,3-Trichloropropane

Concen: 4.883 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028818.D

Acq: 20 Dec 2018 12:41

Instrument :

MSVOA\_U

ClientSampleId :

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Tgt Ion: 75 Resp: 8859

Ion Ratio Lower Upper

75 100

77 32.1 25.5 38.3

