

Data File : VU030475.D  
Acq On : 27 Mar 2019 11:58  
Operator : JC/SP  
Sample : K2022-14  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09D3

Quant Time: Mar 28 01:29:34 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 28 01:25:46 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 400132   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 377452   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 148943   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 159082   | 49.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 98.80%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 137965   | 54.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 108.10% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 238377   | 39.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 78.04%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 344875   | 113.93   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 113.93% |
| 24) Chloroform-d               | 4.64    | 84    | 310426   | 55.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 111.90% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 209670   | 57.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 115.50% |
| 32) Benzene-d6                 | 5.34    | 84    | 616856   | 56.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 113.98% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 222163   | 59.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 119.98% |
| 41) Toluene-d8                 | 7.56    | 98    | 524166   | 53.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.84% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 96462    | 55.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 110.78% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 213520   | 106.39   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 106.39% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 301536   | 56.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 113.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 176059   | 58.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 117.98% |

#### Target Compounds

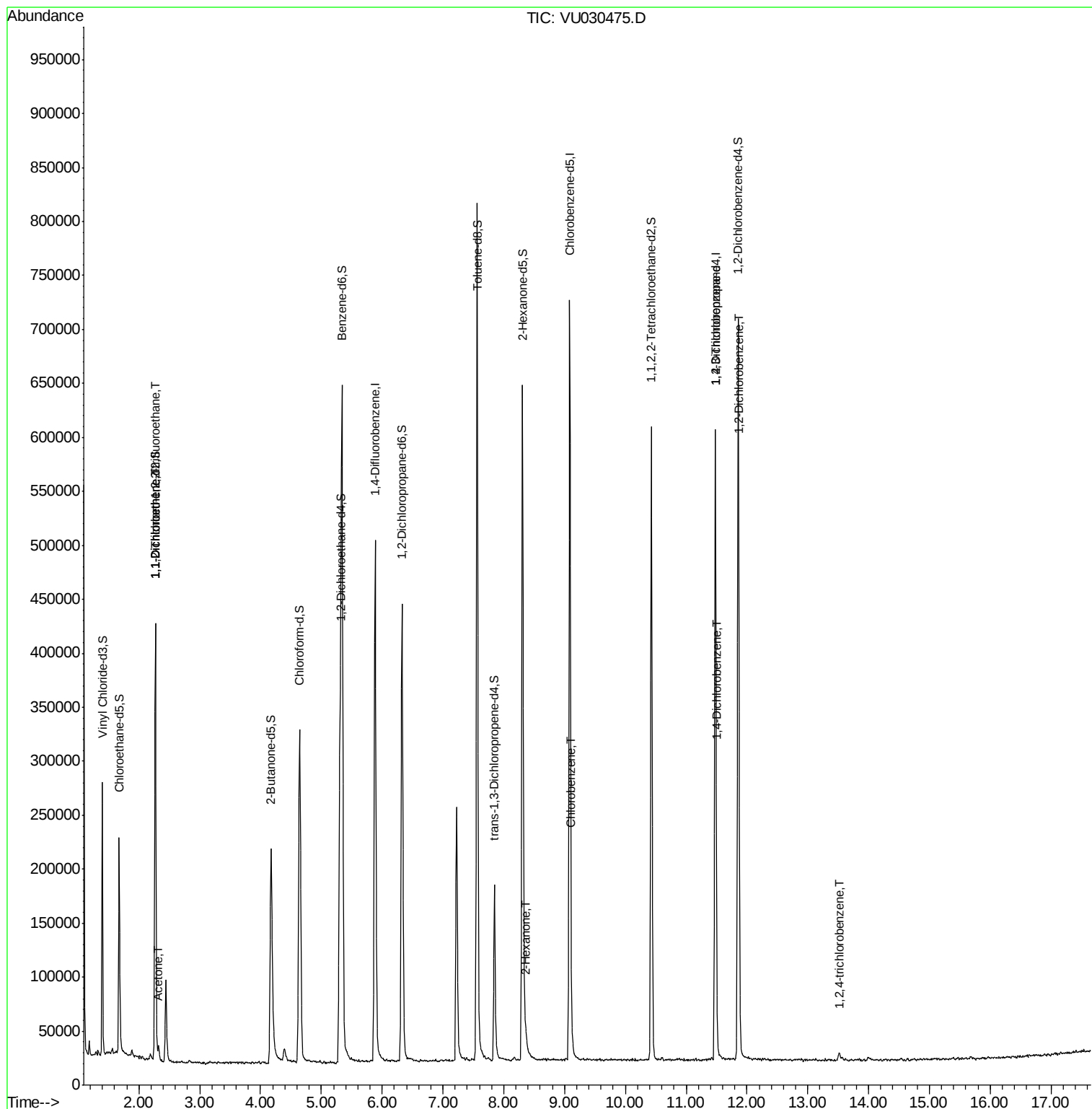
|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 1915  | 0.656 ug/L # | 21     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 1683  | 0.588 ug/L # | 1      |
| 13) Acetone                    | 2.32  | 43  | 10856 | 3.546 ug/L   | 96     |
| 48) 2-Hexanone                 | 8.36  | 43  | 8166  | 1.627 ug/L # | 73     |
| 51) Chlorobenzene              | 9.12  | 112 | 7276  | 0.900 ug/L   | 97     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 21790 | 4.910 ug/L   | 97     |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146 | 4927  | 0.983 ug/L   | 88     |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146 | 15399 | 3.127 ug/L   | 95     |
| 68) 1,2,4-trichlorobenzene     | 13.51 | 180 | 1260  | 0.398 ug/L # | 1      |

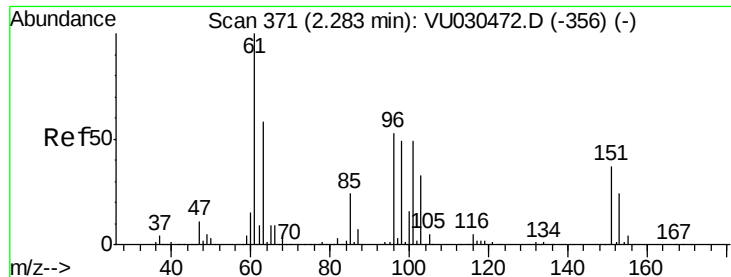
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#10

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

Concen: 0.656 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU030475.D

Acq: 27 Mar 2019 11:58

Instrument :

MSVOA\_U

ClientSampleId :

C09D3

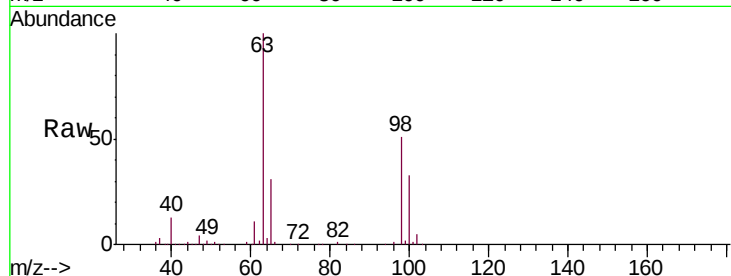
Tgt Ion: 101 Resp: 1915

Ion Ratio Lower Upper

101 100

85 0.0 34.8 52.2#

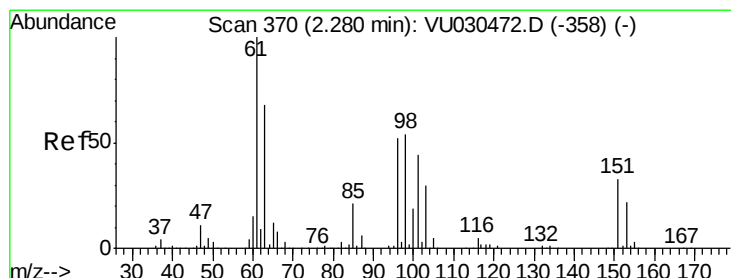
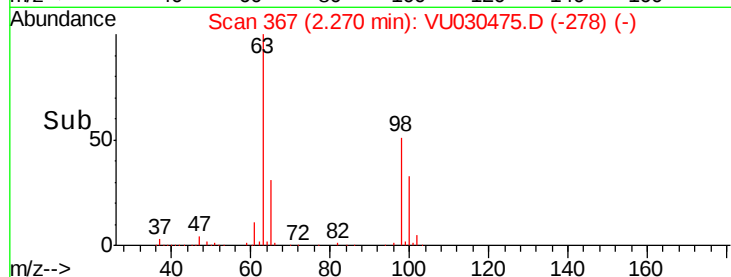
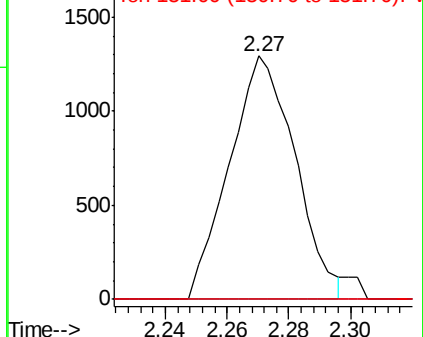
151 0.0 56.6 85.0#



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: 0.588 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU030475.D

Acq: 27 Mar 2019 11:58

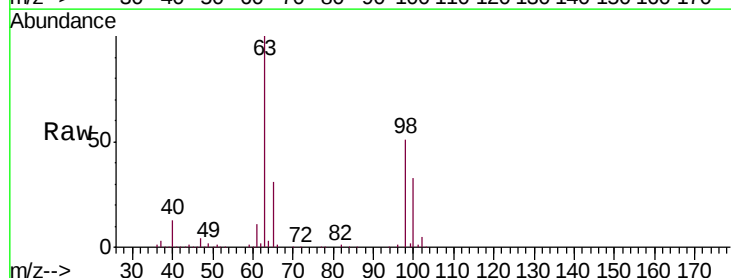
Tgt Ion: 96 Resp: 1683

Ion Ratio Lower Upper

96 100

61 1668.6 131.0 243.4#

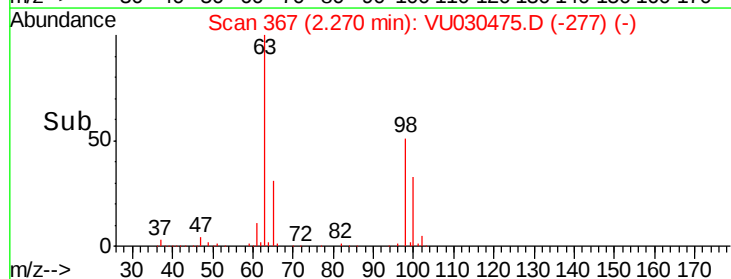
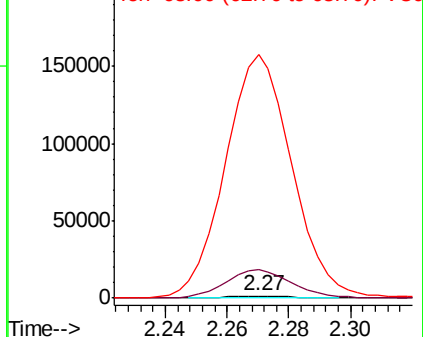
63 14522.4 92.4 171.6#

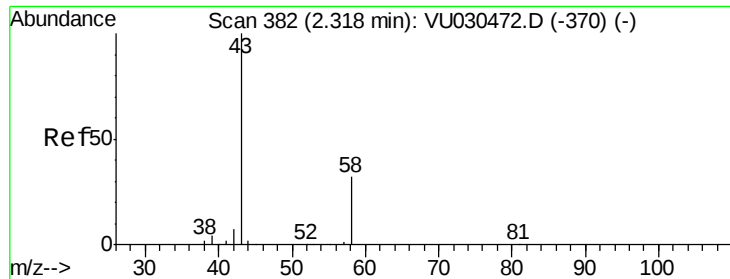


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 3.546 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030475.D

Acq: 27 Mar 2019 11:58

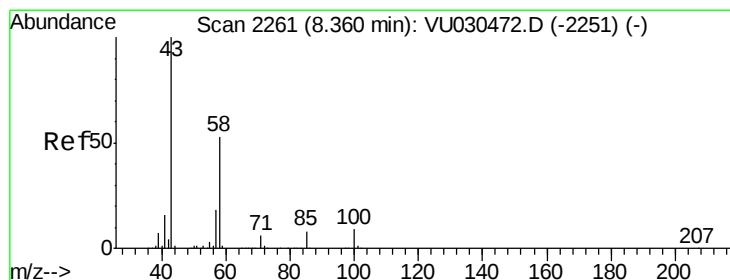
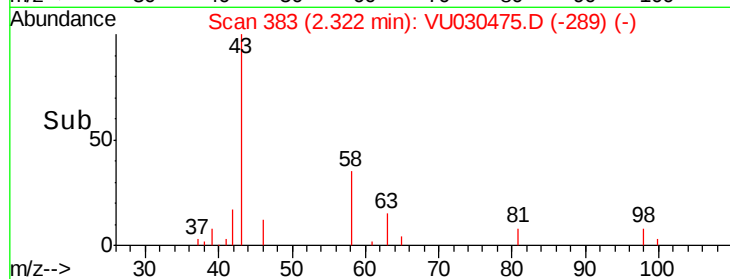
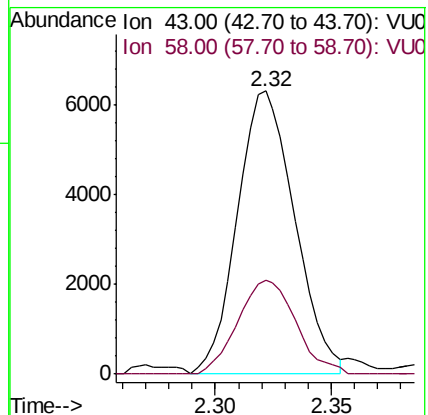
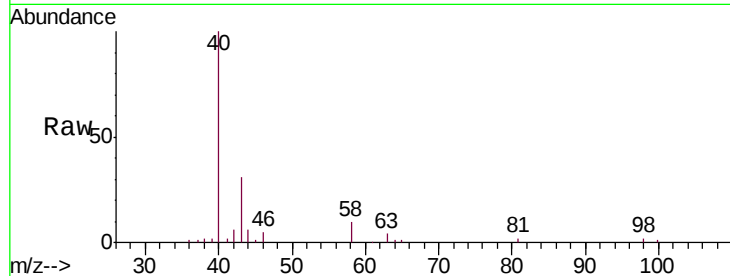
Instrument :  
MSVOA\_U  
ClientSampleId :  
C09D3

Tgt Ion: 43 Resp: 10856

Ion Ratio Lower Upper

43 100

58 33.6 0.0 62.8



#48

2-Hexanone

Concen: 1.627 ug/L

RT: 8.36 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VU030475.D

Acq: 27 Mar 2019 11:58

Tgt Ion: 43 Resp: 8166

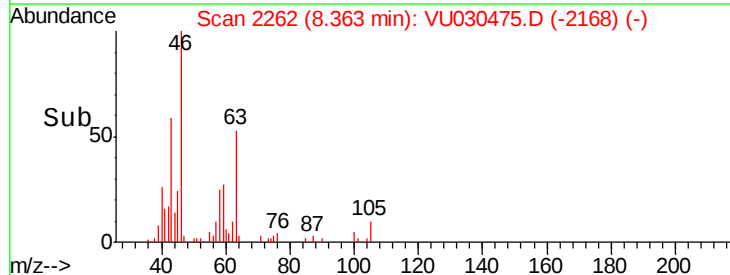
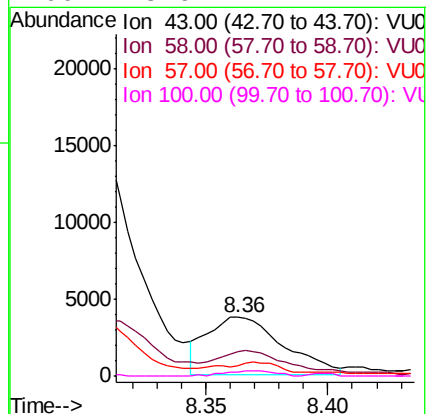
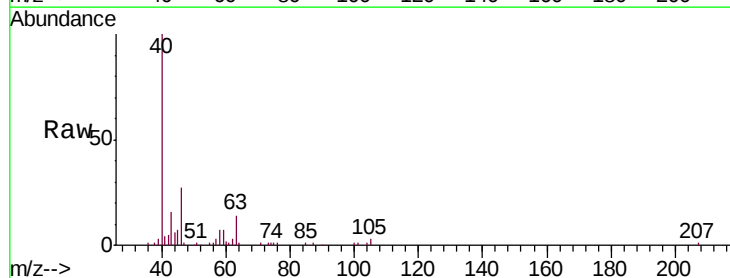
Ion Ratio Lower Upper

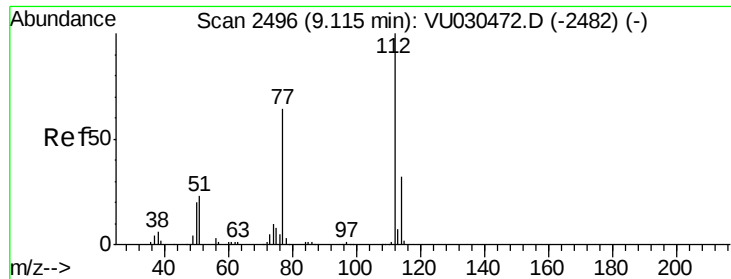
43 100

58 28.3 42.5 63.7#

57 13.2 15.0 22.6#

100 5.6 7.4 11.2#





#51

Chlorobenzene

Concen: 0.900 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU030475.D

Acq: 27 Mar 2019 11:58

Instrument :

MSVOA\_U

ClientSampleId :

C09D3

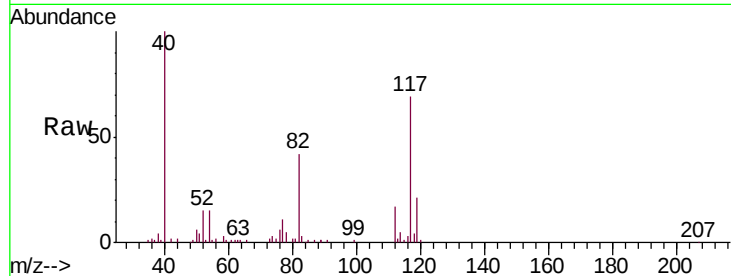
Tgt Ion:112 Resp: 7276

Ion Ratio Lower Upper

112 100

114 32.0 21.5 39.9

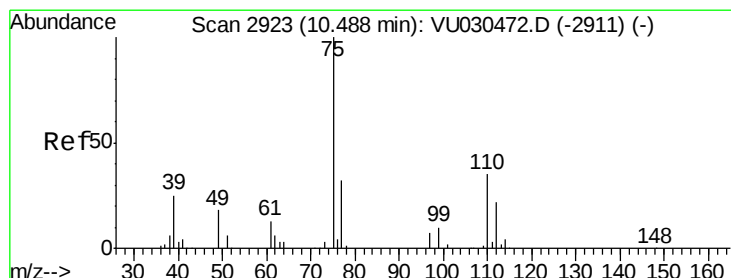
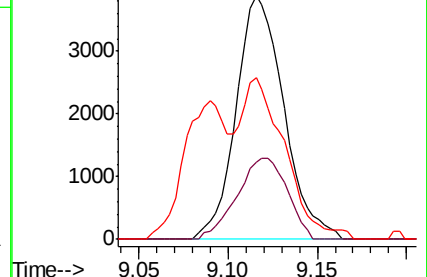
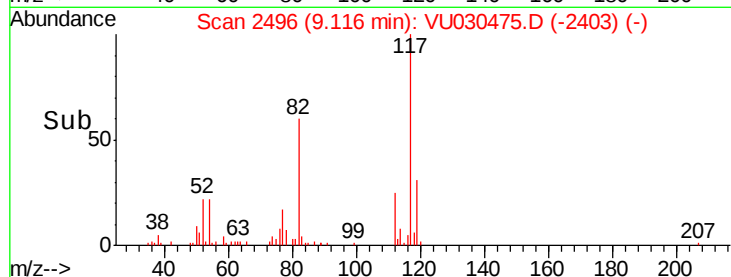
77 66.6 51.4 77.0



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU



#59

1,2,3-Trichloropropane

Concen: 4.910 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU030475.D

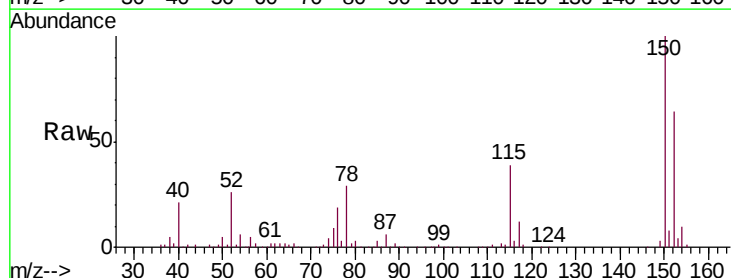
Acq: 27 Mar 2019 11:58

Tgt Ion: 75 Resp: 21790

Ion Ratio Lower Upper

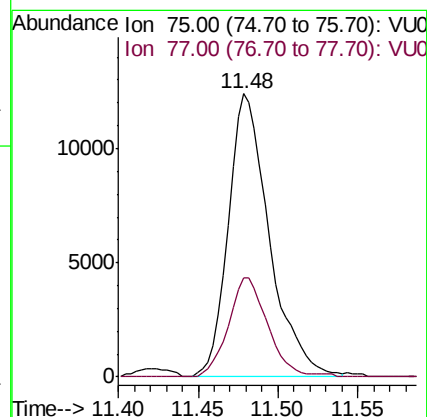
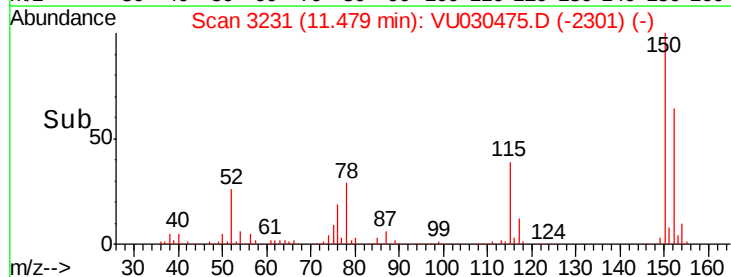
75 100

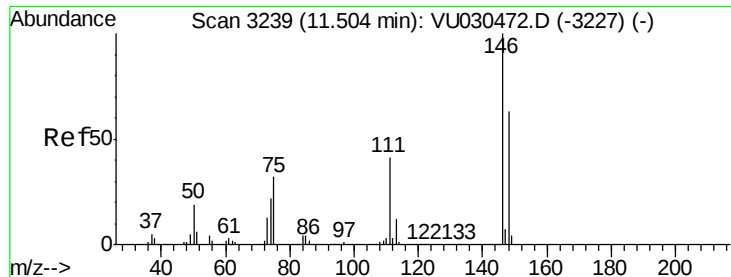
77 33.4 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU

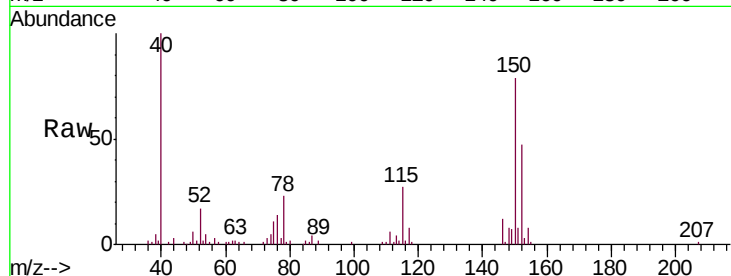




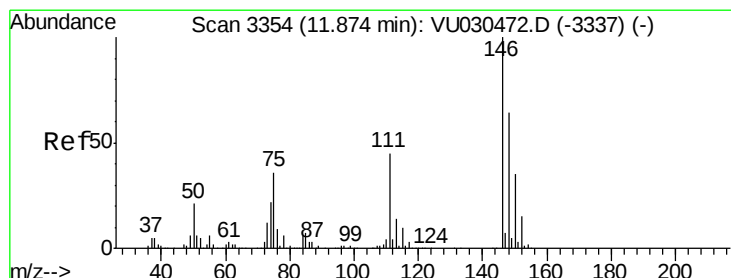
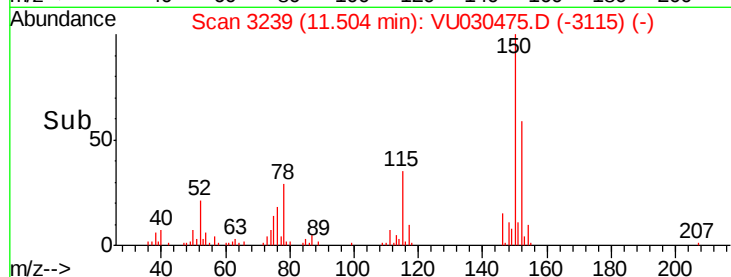
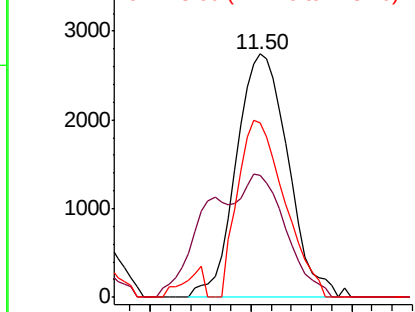
#63  
 1,4-Dichlorobenzene  
 Concen: 0.983 ug/L  
 RT: 11.50 min Scan# 3239  
 Delta R.T. 0.00 min  
 Lab File: VU030475.D  
 Acq: 27 Mar 2019 11:58

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09D3

Tgt Ion:146 Resp: 4927  
 Ion Ratio Lower Upper  
 146 100  
 111 50.1 28.7 53.3  
 148 71.9 44.3 82.3

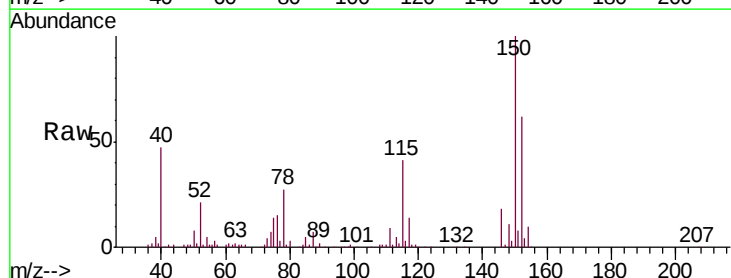


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

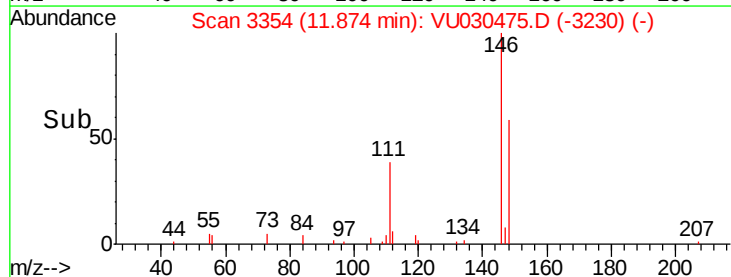
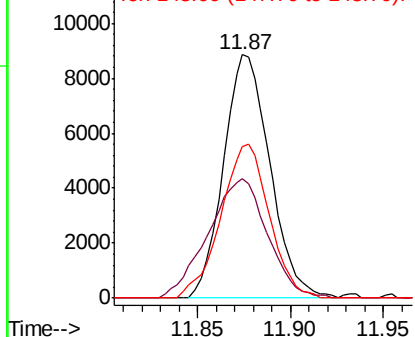


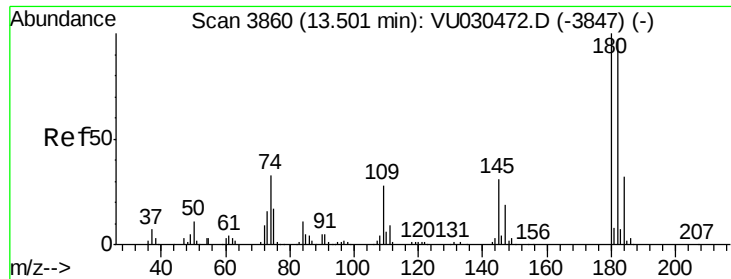
#65  
 1,2-Dichlorobenzene  
 Concen: 3.127 ug/L  
 RT: 11.87 min Scan# 3354  
 Delta R.T. 0.00 min  
 Lab File: VU030475.D  
 Acq: 27 Mar 2019 11:58

Tgt Ion:146 Resp: 15399  
 Ion Ratio Lower Upper  
 146 100  
 111 49.2 34.9 52.3  
 148 62.3 51.2 76.8



Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V





#68  
 1,2,4-trichlorobenzene  
 Concen: 0.398 ug/L  
 RT: 13.51 min Scan# 3862  
 Delta R.T. 0.01 min  
 Lab File: VU030475.D  
 Acq: 27 Mar 2019 11:58

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09D3

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 328.7 | 76.1  | 114.1# |
| 145     | 101.7 | 24.5  | 36.7#  |

