

Data File : VU030450.D  
Acq On : 26 Mar 2019 17:55  
Operator : JC/SP  
Sample : K2022-12 50X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09C7

Quant Time: Mar 27 06:03:43 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Mar 27 06:00:22 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 451069   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 426960   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 169389   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 174746   | 48.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 96.28%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 145622   | 50.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 101.22% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 249281   | 36.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 72.40%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 347308   | 101.78   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 101.78% |
| 24) Chloroform-d               | 4.64    | 84    | 310049   | 49.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.14%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 209487   | 51.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.38% |
| 32) Benzene-d6                 | 5.34    | 84    | 621690   | 50.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.54% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 220053   | 52.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 105.06% |
| 41) Toluene-d8                 | 7.56    | 98    | 534920   | 48.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.30%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 96279    | 48.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 97.76%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 226224   | 99.65    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.65%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 300059   | 50.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 100.10% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 179402   | 52.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.72% |

#### Target Compounds

|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 1939  | 0.589 ug/L # | 21     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 1952  | 0.605 ug/L # | 1      |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 3904  | 0.748 ug/L   | 85     |
| 48) 2-Hexanone                 | 8.37  | 43  | 5908  | 1.040 ug/L # | 87     |
| 51) Chlorobenzene              | 9.12  | 112 | 47077 | 5.150 ug/L   | 97     |
| 59) 1,2,3-Trichloropropane     | 11.42 | 75  | 2726  | 0.543 ug/L # | 43     |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146 | 8124  | 1.467 ug/L   | 93     |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146 | 41016 | 7.192 ug/L   | 98     |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146 | 29995 | 5.355 ug/L   | 93     |
| 68) 1,2,4-trichlorobenzene     | 13.52 | 180 | 5351  | 1.485 ug/L # | 58     |

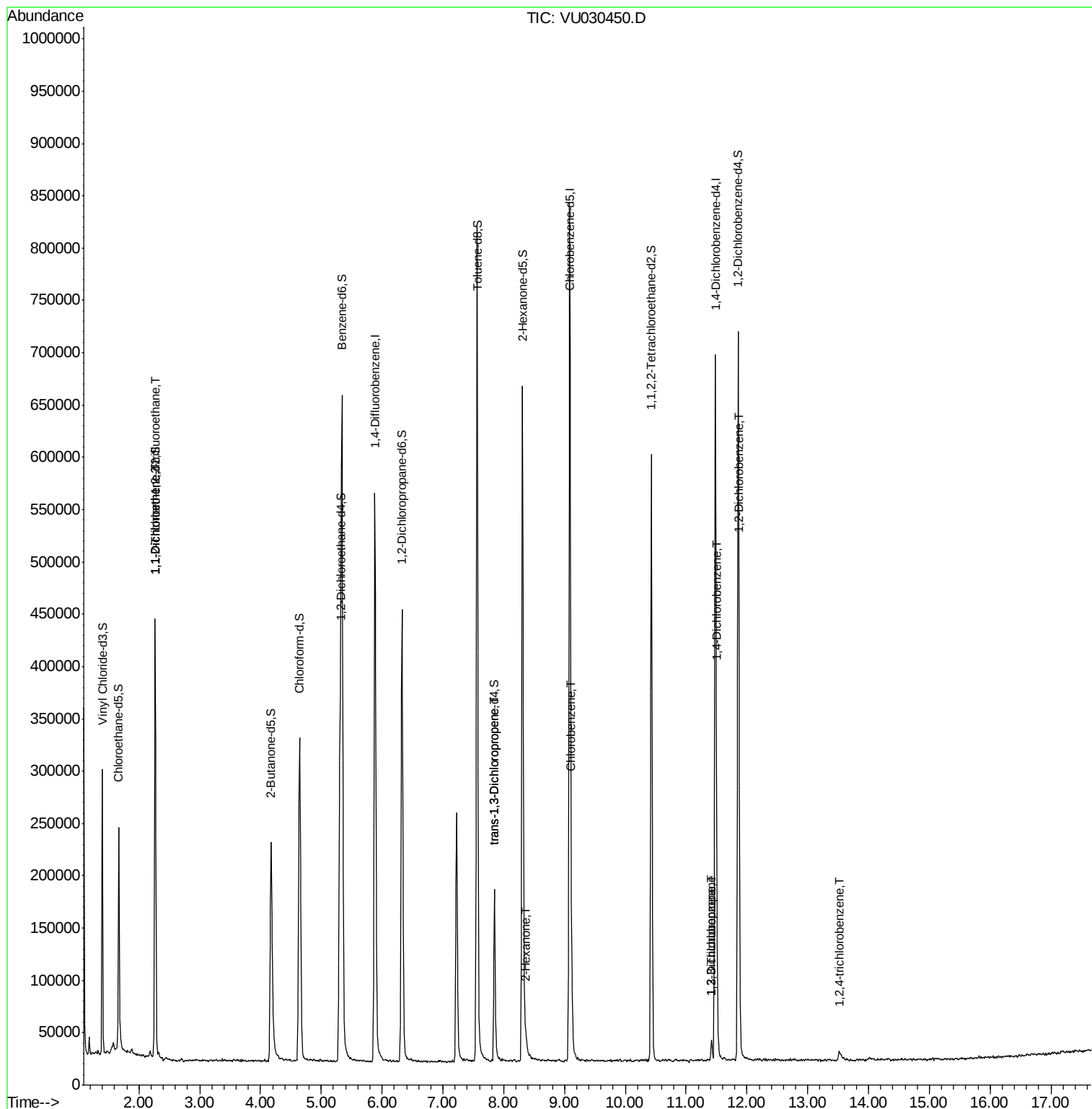
(#) = qualifier out of range (m) = manual integration (+) = signals summed

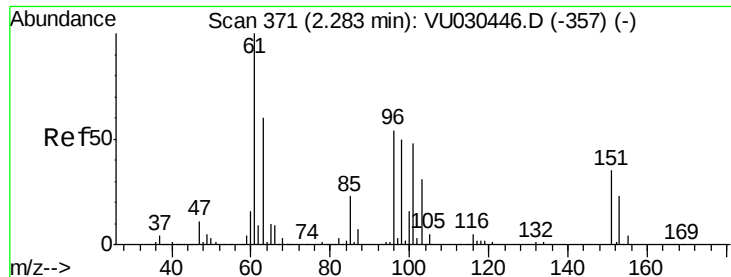
Data File : VU030450.D

```
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Sample       : K2022-12 50X
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ALS Vial     : 24   Sample Multiplier: 1
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MSVOA\_U  
**ClientSampleId :**  
C09C7

Quant Time: Mar 27 06:03:43 2019  
Quant Method : Z:\V\OASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Mar 27 06:00:22 2019  
Response via : Initial Calibration





#10

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

Concen: 0.589 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.02 min

Lab File: VU030450.D

Acq: 26 Mar 2019 17:55

Instrument :

MSVOA\_U

ClientSampleId :

C09C7

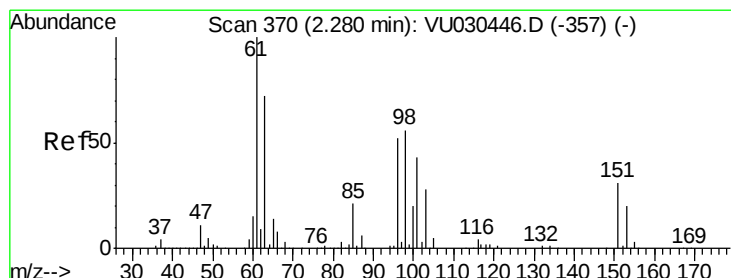
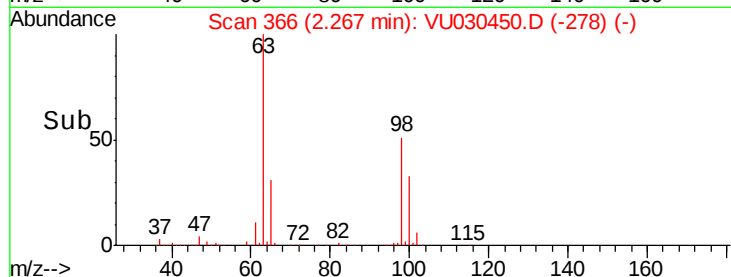
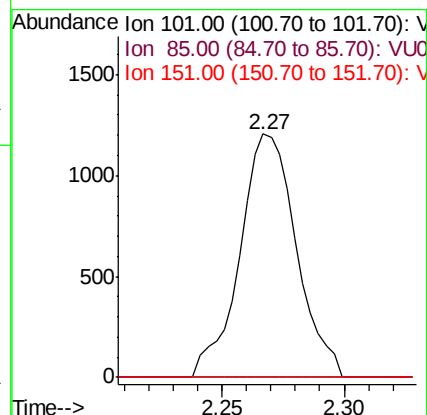
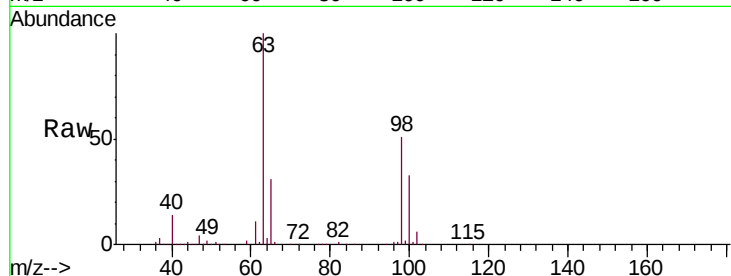
Tgt Ion: 101 Resp: 1939

Ion Ratio Lower Upper

101 100

85 0.0 34.8 52.2#

151 0.0 56.6 85.0#



#12

1,1-Dichloroethene

Concen: 0.605 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU030450.D

Acq: 26 Mar 2019 17:55

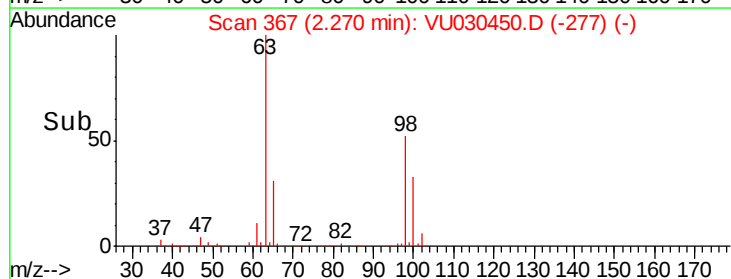
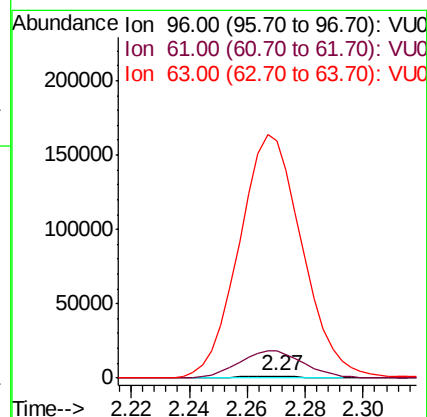
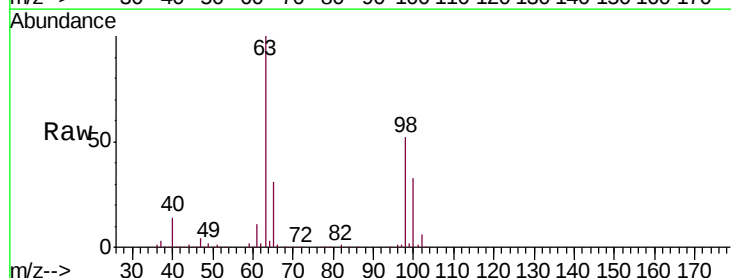
Tgt Ion: 96 Resp: 1952

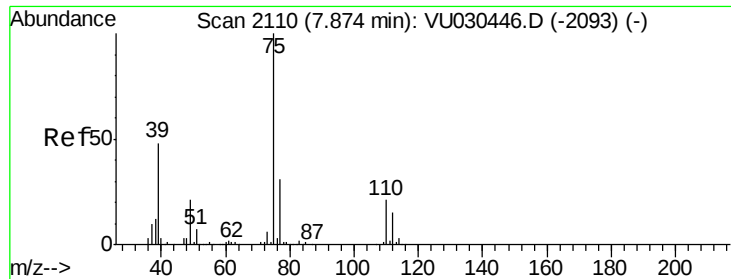
Ion Ratio Lower Upper

96 100

61 1309.5 131.0 243.4#

63 11401.7 92.4 171.6#





#44

trans-1,3-Dichloropropene

Concen: 0.748 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU030450.D

Acq: 26 Mar 2019 17:55

Instrument :

MSVOA\_U

ClientSampled :

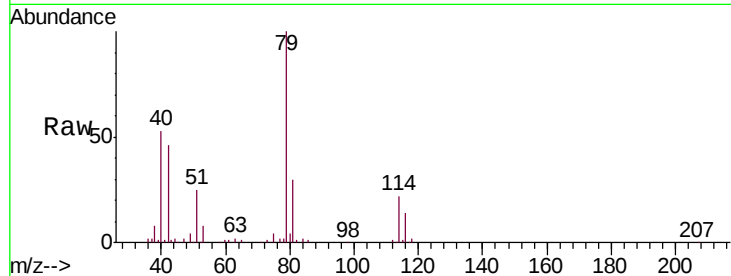
C09C7

Tgt Ion: 75 Resp: 3904

Ion Ratio Lower Upper

75 100

77 39.9 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VU030446.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU030446.D (-2093) (-)

7.85

2500

2000

1500

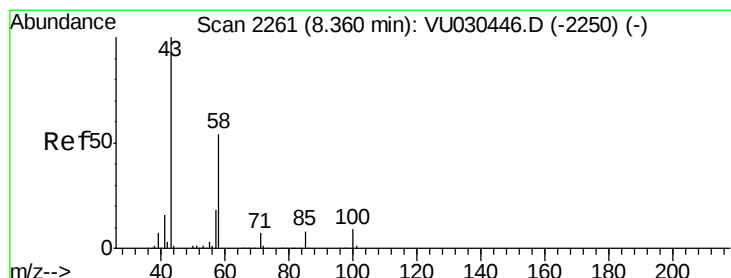
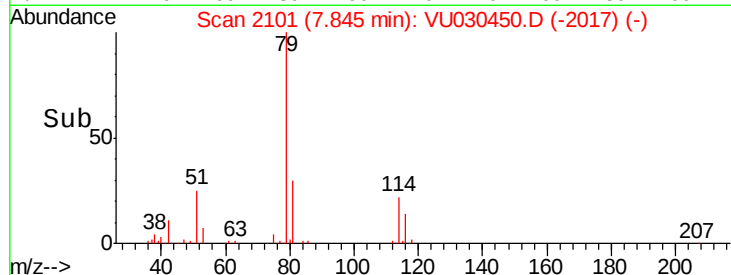
1000

500

0

7.80 7.85 7.90

Time-->



#48

2-Hexanone

Concen: 1.040 ug/L

RT: 8.37 min Scan# 2263

Delta R.T. 0.01 min

Lab File: VU030450.D

Acq: 26 Mar 2019 17:55

Tgt Ion: 43 Resp: 5908

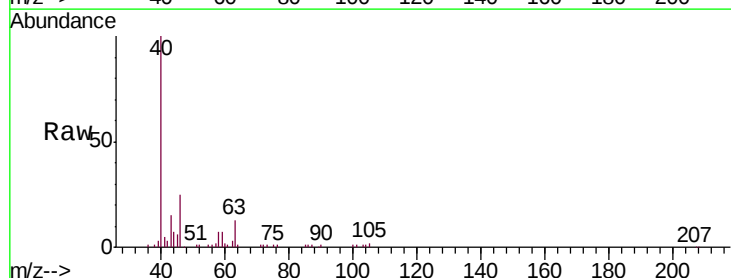
Ion Ratio Lower Upper

43 100

58 41.6 42.5 63.7#

57 19.2 15.0 22.6

100 2.6 7.4 11.2#



Abundance Ion 43.00 (42.70 to 43.70): VU030446.D (-2250) (-)

Ion 58.00 (57.70 to 58.70): VU030446.D (-2250) (-)

Ion 57.00 (56.70 to 57.70): VU030446.D (-2250) (-)

Ion 100.00 (99.70 to 100.70): VU030446.D (-2250) (-)

20000

15000

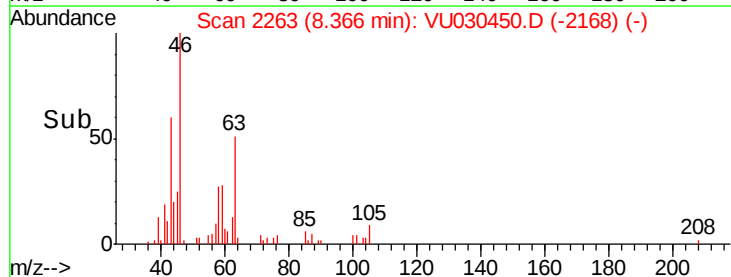
10000

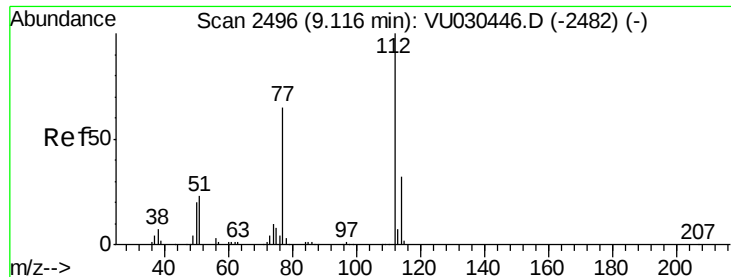
5000

0

8.35 8.37 8.40

Time-->





#51

Chlorobenzene

Concen: 5.150 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU030450.D

Acq: 26 Mar 2019 17:55

Instrument :

MSVOA\_U

ClientSampleId :

C09C7

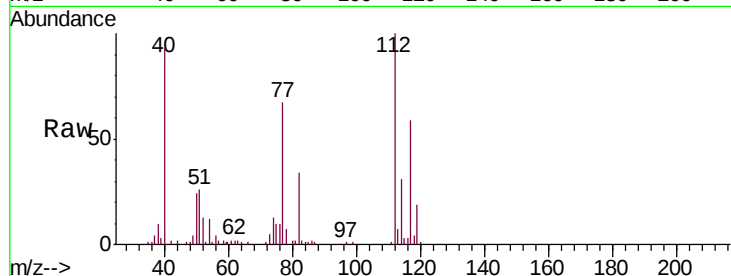
Tgt Ion: 112 Resp: 47077

Ion Ratio Lower Upper

112 100

114 31.1 21.5 39.9

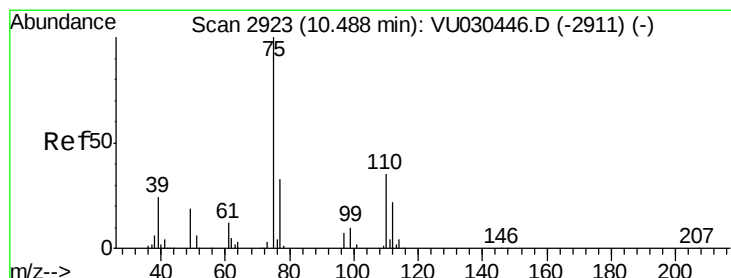
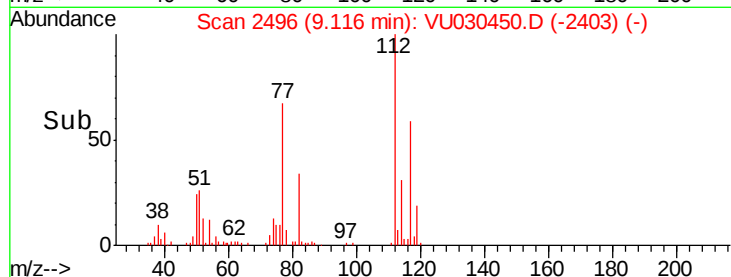
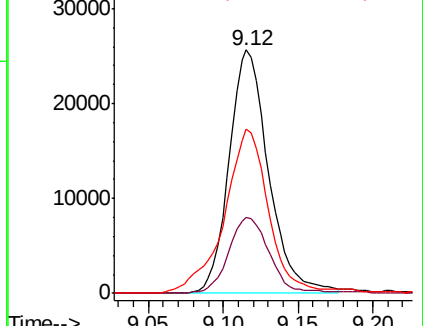
77 67.4 51.4 77.0



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: 0.543 ug/L

RT: 11.42 min Scan# 3212

Delta R.T. 0.93 min

Lab File: VU030450.D

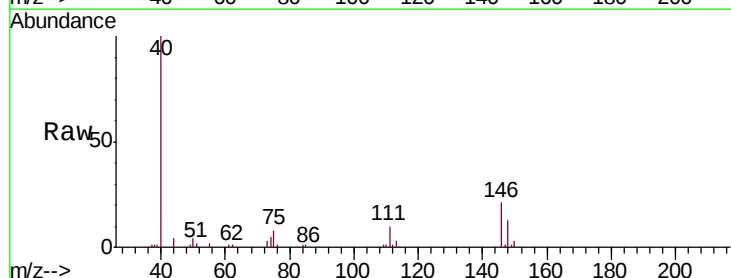
Acq: 26 Mar 2019 17:55

Tgt Ion: 75 Resp: 2726

Ion Ratio Lower Upper

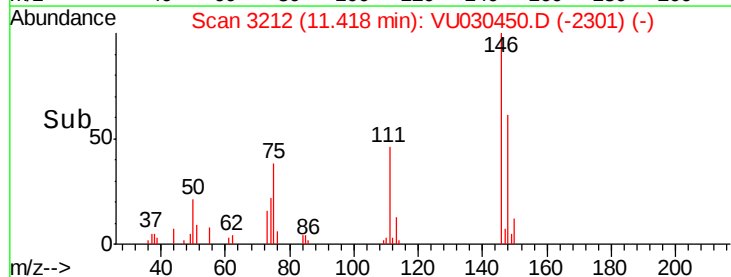
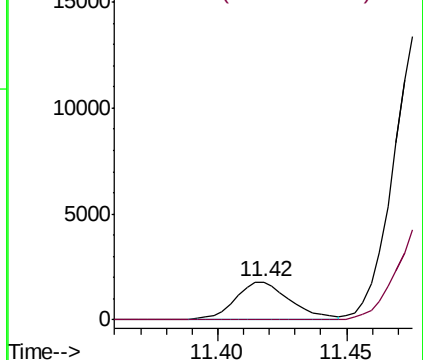
75 100

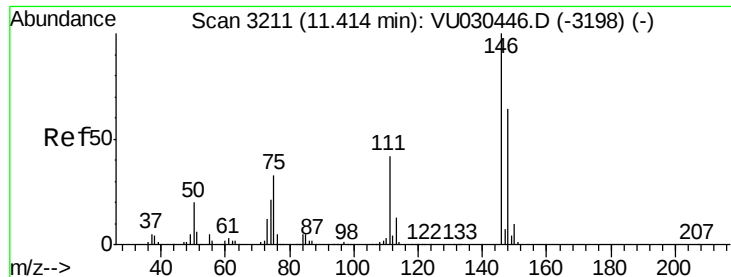
77 0.0 25.4 38.2#



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU





#62

1,3-Dichlorobenzene

Concen: 1.467 ug/L

RT: 11.42 min Scan# 3213

Delta R.T. 0.01 min

Lab File: VU030450.D

Acq: 26 Mar 2019 17:55

Instrument :

MSVOA\_U

ClientSampleId :

C09C7

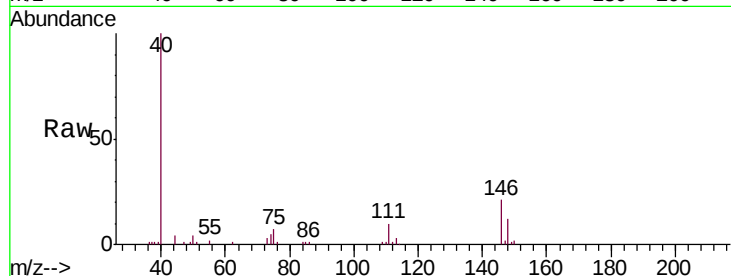
Tgt Ion:146 Resp: 8124

Ion Ratio Lower Upper

146 100

111 45.4 29.2 54.2

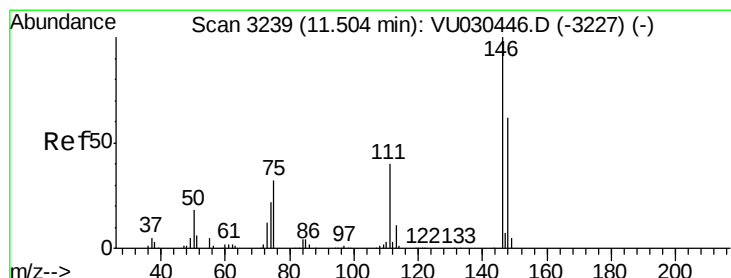
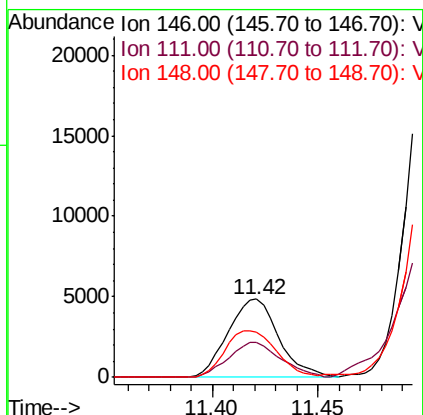
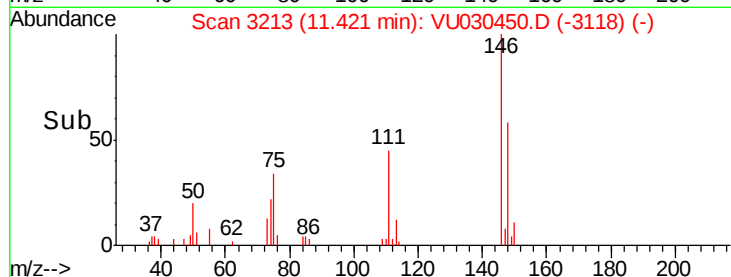
148 57.6 44.4 82.4



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



#63

1,4-Dichlorobenzene

Concen: 7.192 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030450.D

Acq: 26 Mar 2019 17:55

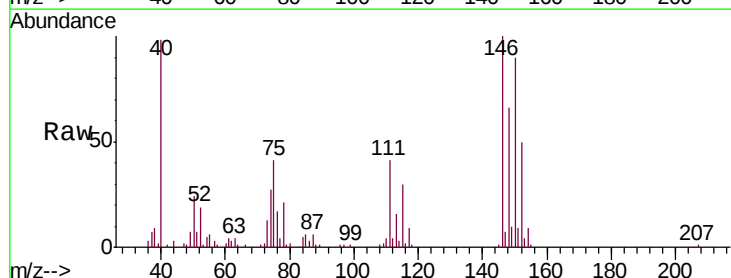
Tgt Ion:146 Resp: 41016

Ion Ratio Lower Upper

146 100

111 40.8 28.7 53.3

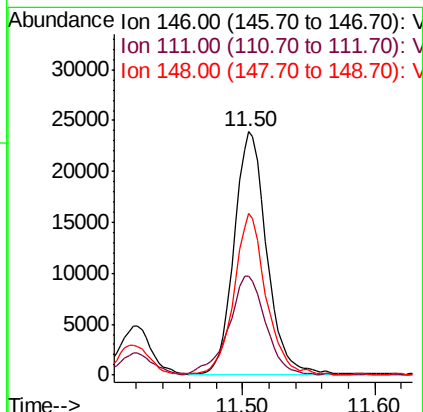
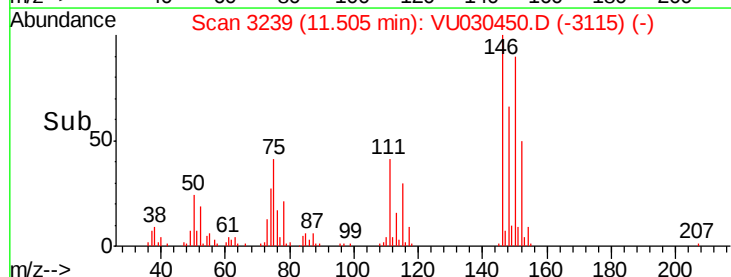
148 66.2 44.3 82.3

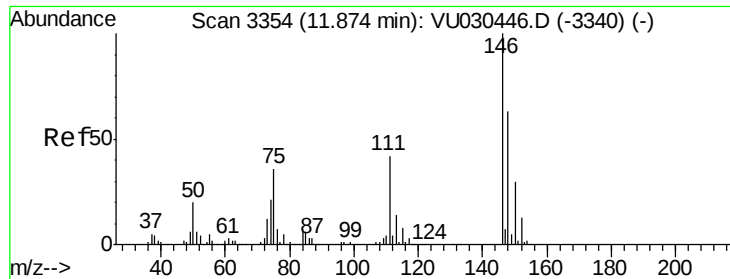


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

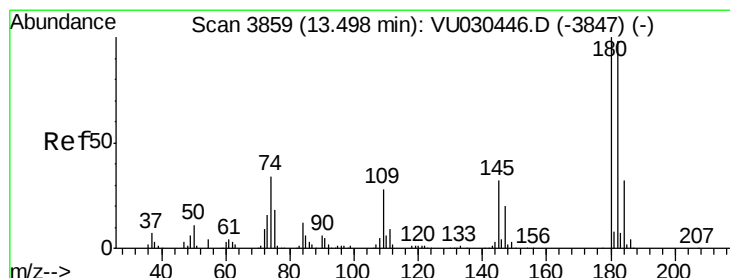
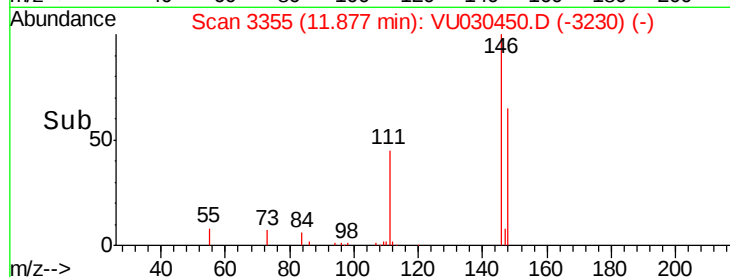
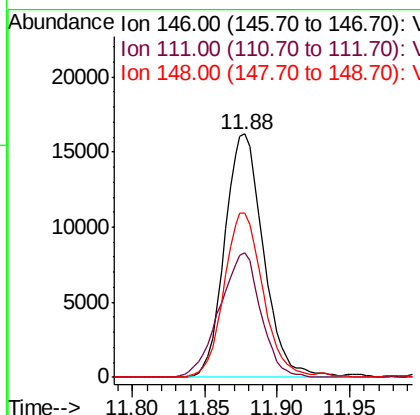
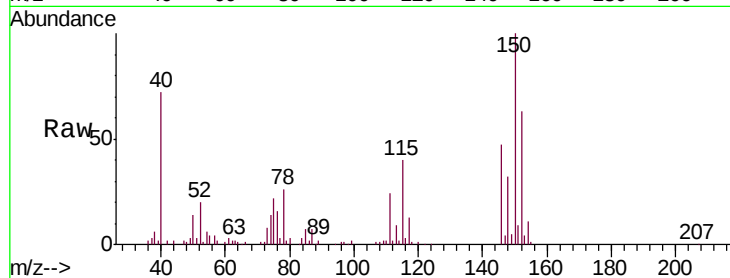




#65  
 1,2-Dichlorobenzene  
 Concen: 5.355 ug/L  
 RT: 11.88 min Scan# 3355  
 Delta R.T. 0.00 min  
 Lab File: VU030450.D  
 Acq: 26 Mar 2019 17:55

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09C7

Tgt Ion:146 Resp: 29995  
 Ion Ratio Lower Upper  
 146 100  
 111 51.4 34.9 52.3  
 148 67.3 51.2 76.8



#68  
 1,2,4-trichlorobenzene  
 Concen: 1.485 ug/L  
 RT: 13.52 min Scan# 3865  
 Delta R.T. 0.02 min  
 Lab File: VU030450.D  
 Acq: 26 Mar 2019 17:55

Tgt Ion:180 Resp: 5351  
 Ion Ratio Lower Upper  
 180 100  
 182 55.3 76.1 114.1#  
 145 6.8 24.5 36.7#

