

Data File : VU030240.D  
Acq On : 20 Mar 2019 22:04  
Operator : JC/SP  
Sample : K2022-06  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09A3

Quant Time: Mar 22 01:33:32 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 22 01:27:23 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 521431   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 504145   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 237491   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 145677   | 41.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 82.64%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 127355   | 45.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 90.34%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 206928   | 32.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 64.34%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 262026   | 100.17   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 100.17% |
| 24) Chloroform-d               | 4.65    | 84    | 298580   | 46.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.28%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 178659   | 48.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.82%  |
| 32) Benzene-d6                 | 5.34    | 84    | 629402   | 47.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.76%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 202021   | 49.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.30%  |
| 41) Toluene-d8                 | 7.56    | 98    | 558858   | 44.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.48%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 90763    | 45.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.68%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 213589   | 100.20   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 100.20% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 305448   | 48.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.88%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 237109   | 49.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.46%  |

#### Target Compounds

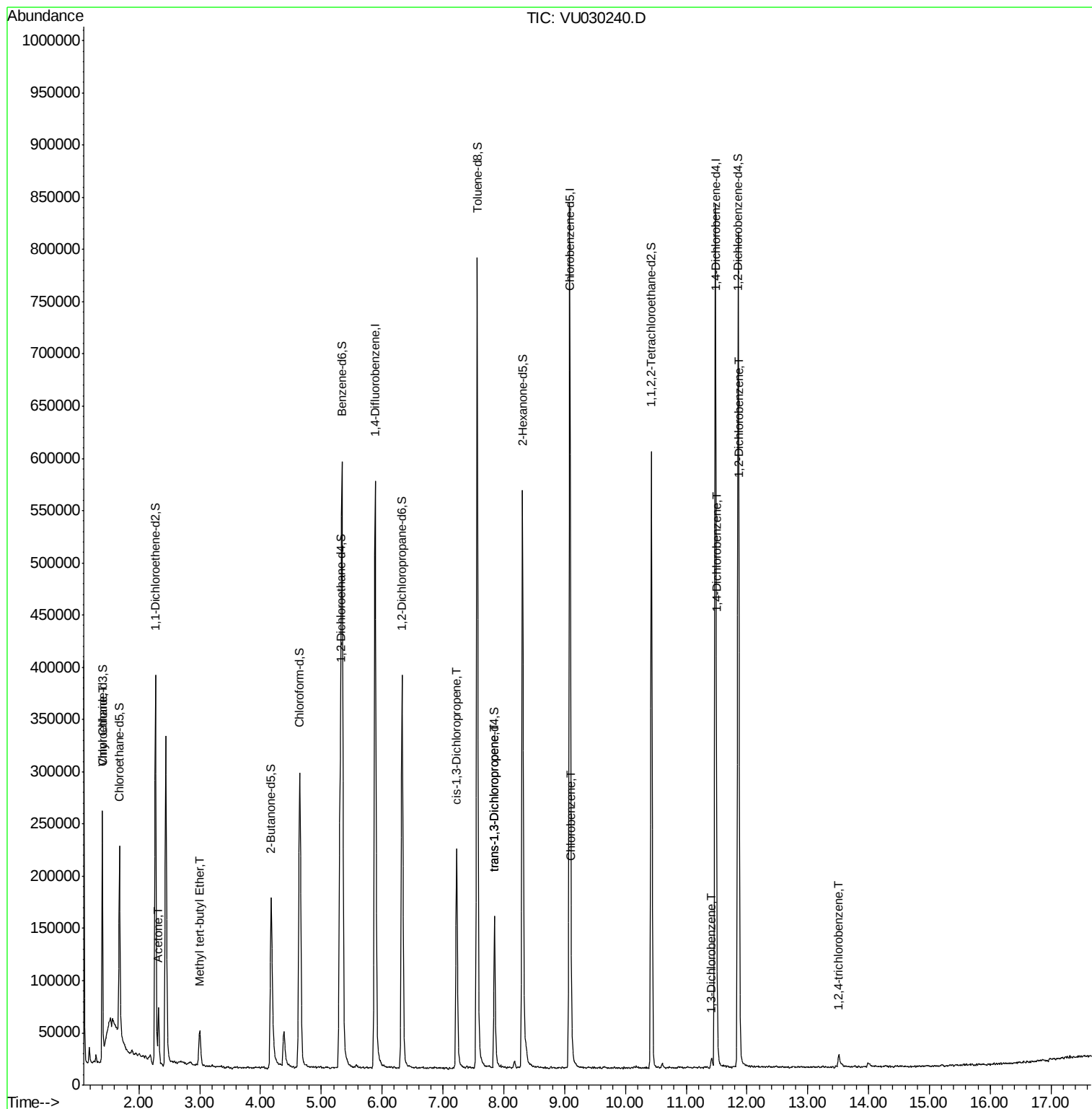
|                               |       |     |       |              | Qvalue |
|-------------------------------|-------|-----|-------|--------------|--------|
| 8) Chloroethane               | 1.41  | 64  | 9744  | 3.633 ug/L   | 91     |
| 13) Acetone                   | 2.32  | 43  | 53862 | 19.706 ug/L  | 98     |
| 18) Methyl tert-butyl Ether   | 3.00  | 73  | 36747 | 3.484 ug/L   | 98     |
| 39) cis-1,3-Dichloropropene   | 7.22  | 75  | 4964  | 0.831 ug/L # | 68     |
| 44) trans-1,3-Dichloropropene | 7.85  | 75  | 3764  | 0.728 ug/L   | 96     |
| 51) Chlorobenzene             | 9.12  | 112 | 11968 | 1.143 ug/L   | 94     |
| 62) 1,3-Dichlorobenzene       | 11.42 | 146 | 5070  | 0.669 ug/L   | 94     |
| 63) 1,4-Dichlorobenzene       | 11.50 | 146 | 28858 | 3.672 ug/L   | 97     |
| 65) 1,2-Dichlorobenzene       | 11.88 | 146 | 22616 | 2.921 ug/L   | 95     |
| 68) 1,2,4-trichlorobenzene    | 13.51 | 180 | 5871  | 1.121 ug/L   | 99     |

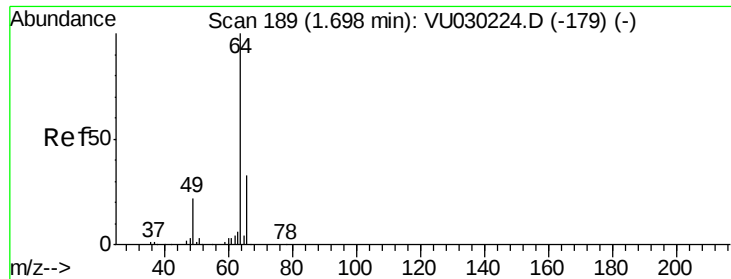
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 22 01:27:23 2019  
Response via : Initial Calibration





#8

Chloroethane

Concen: 3.633 ug/L

RT: 1.41 min Scan# 98

Delta R.T. -0.29 min

Lab File: VU030240.D

Acq: 20 Mar 2019 22:04

Instrument :

MSVOA\_U

ClientSampleId :

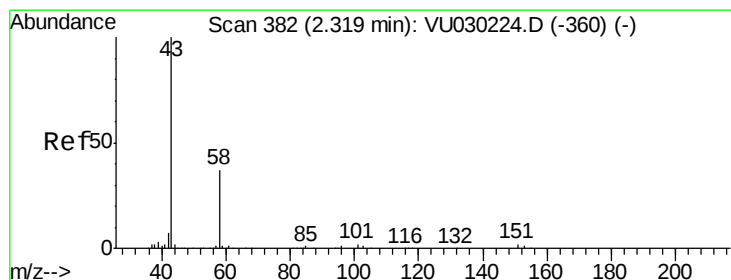
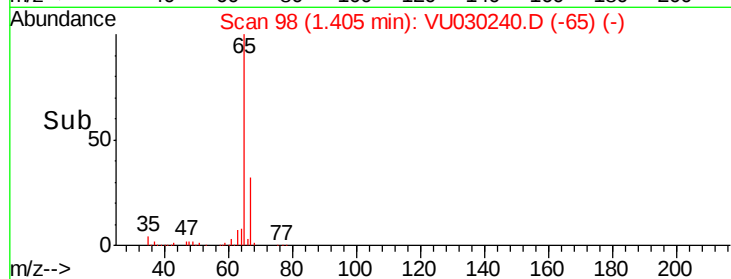
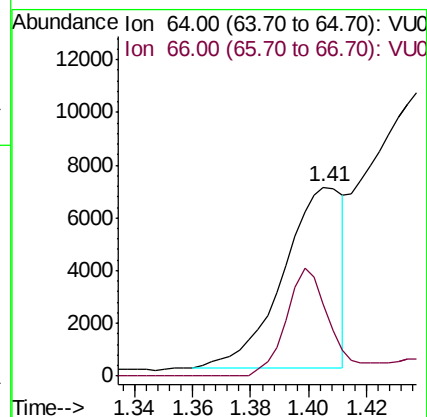
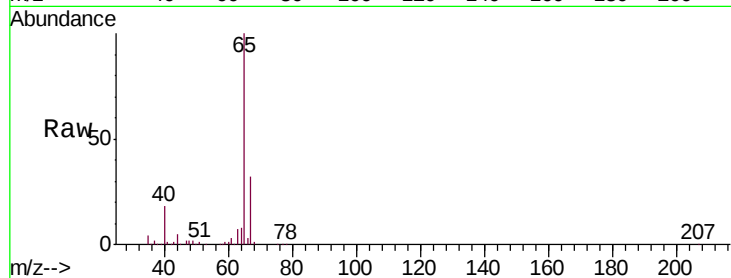
C09A3

Tgt Ion: 64 Resp: 9744

Ion Ratio Lower Upper

64 100

66 38.4 23.2 43.0



#13

Acetone

Concen: 19.706 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030240.D

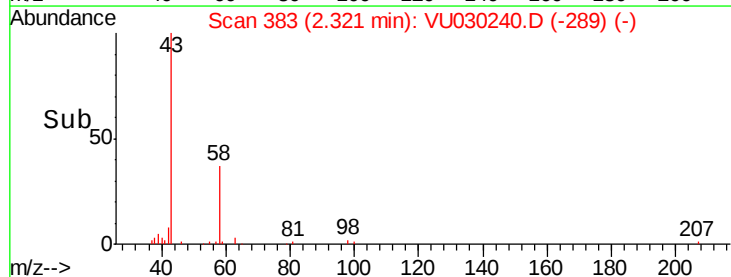
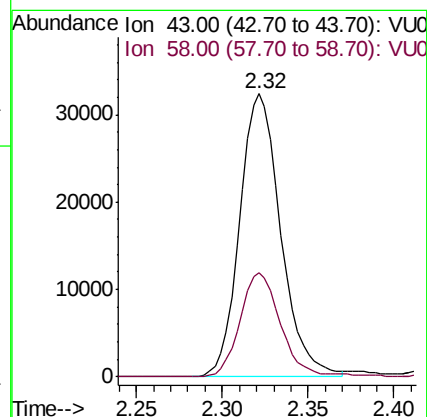
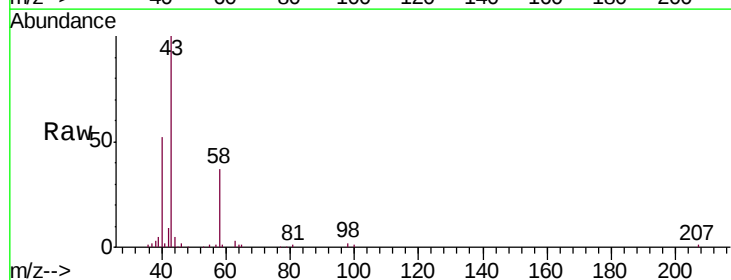
Acq: 20 Mar 2019 22:04

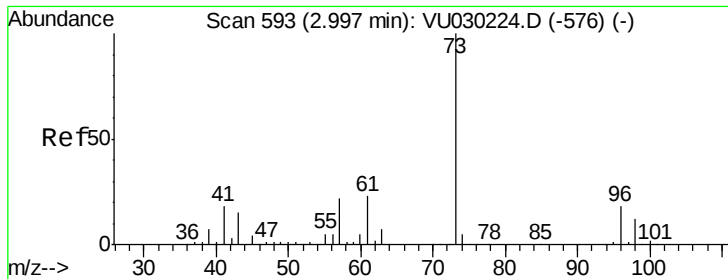
Tgt Ion: 43 Resp: 53862

Ion Ratio Lower Upper

43 100

58 35.7 0.0 73.4



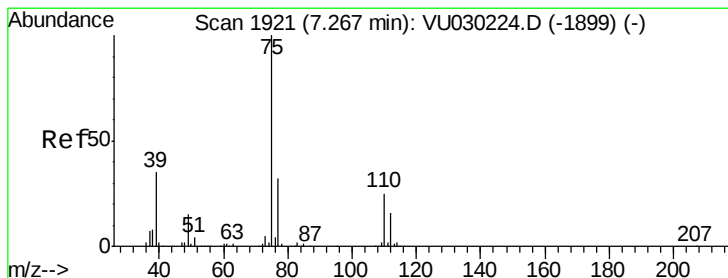
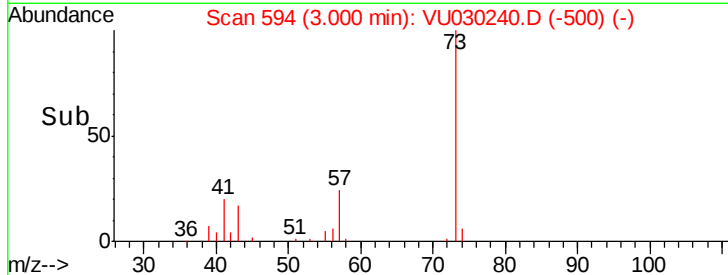
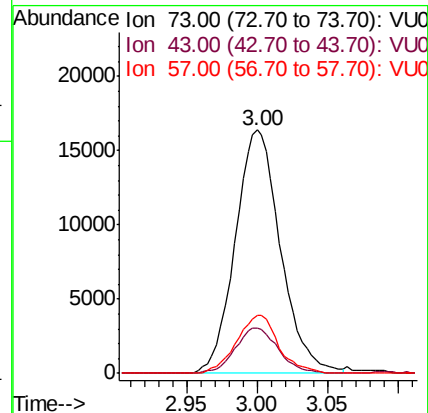
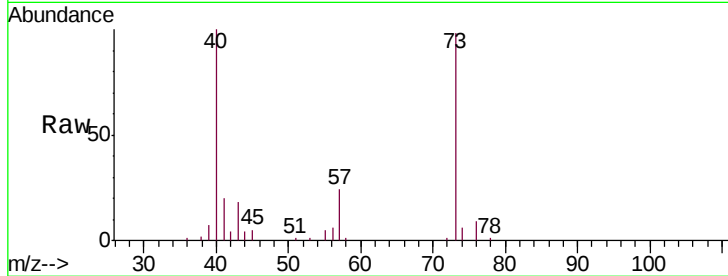


#18

Methyl tert-butyl Ether  
 Concen: 3.484 ug/L  
 RT: 3.00 min Scan# 594  
 Delta R.T. 0.00 min  
 Lab File: VU030240.D  
 Acq: 20 Mar 2019 22:04

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09A3

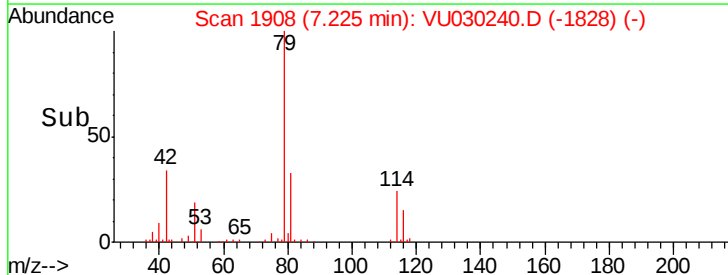
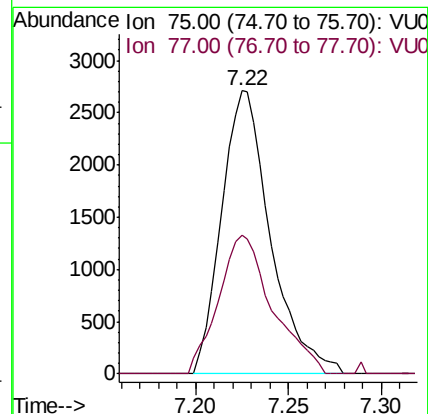
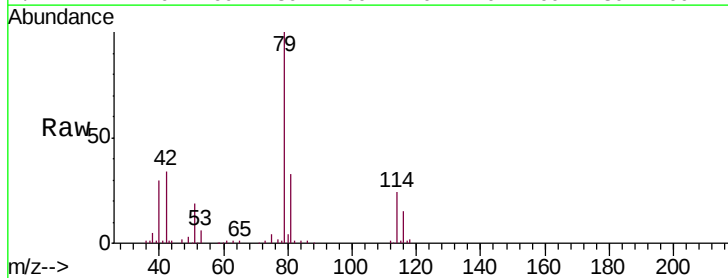
Tgt Ion: 73 Resp: 36747  
 Ion Ratio Lower Upper  
 73 100  
 43 17.7 13.1 19.7  
 57 22.2 17.1 25.7

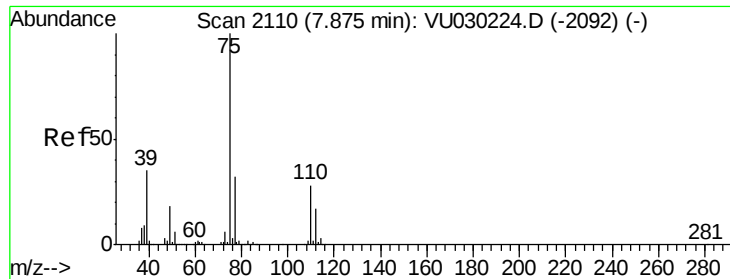


#39

cis-1,3-Dichloropropene  
 Concen: 0.831 ug/L  
 RT: 7.22 min Scan# 1908  
 Delta R.T. -0.04 min  
 Lab File: VU030240.D  
 Acq: 20 Mar 2019 22:04

Tgt Ion: 75 Resp: 4964  
 Ion Ratio Lower Upper  
 75 100  
 77 49.2 22.1 41.1#





#44

trans-1,3-Dichloropropene

Concen: 0.728 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU030240.D

Acq: 20 Mar 2019 22:04

Instrument :

MSVOA\_U

ClientSampleId :

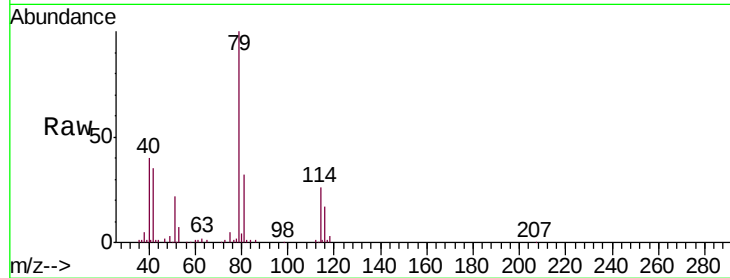
C09A3

Tgt Ion: 75 Resp: 3764

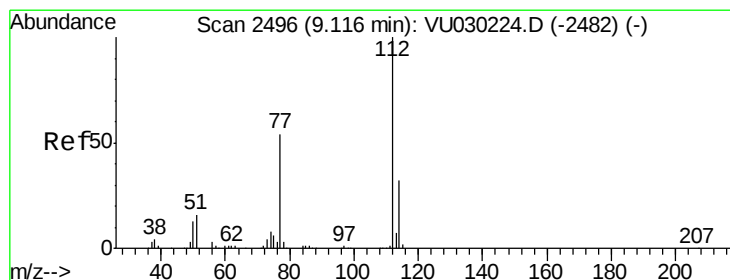
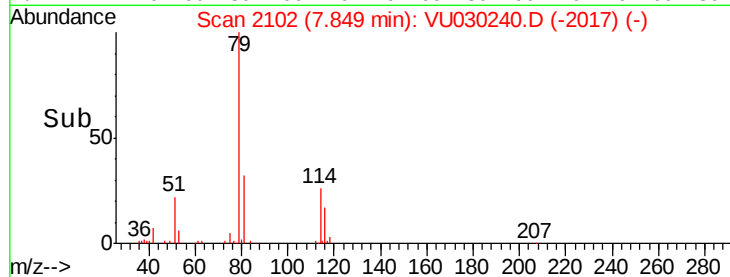
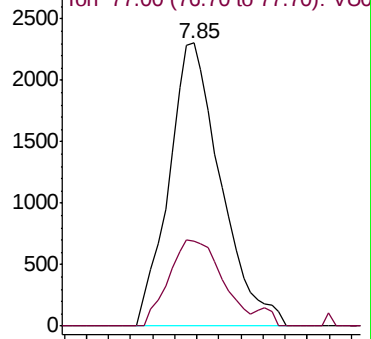
Ion Ratio Lower Upper

75 100

77 30.2 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VU030224.D (-2092) (-)



#51

Chlorobenzene

Concen: 1.143 ug/L

RT: 9.12 min Scan# 2497

Delta R.T. 0.00 min

Lab File: VU030240.D

Acq: 20 Mar 2019 22:04

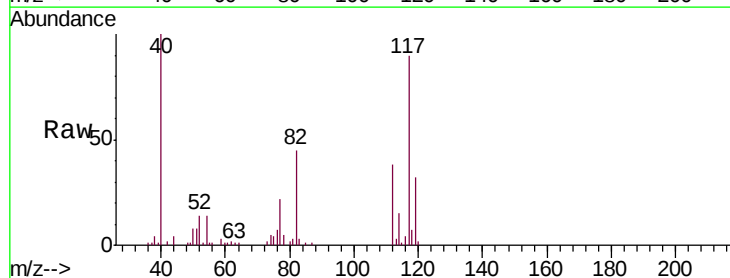
Tgt Ion: 112 Resp: 11968

Ion Ratio Lower Upper

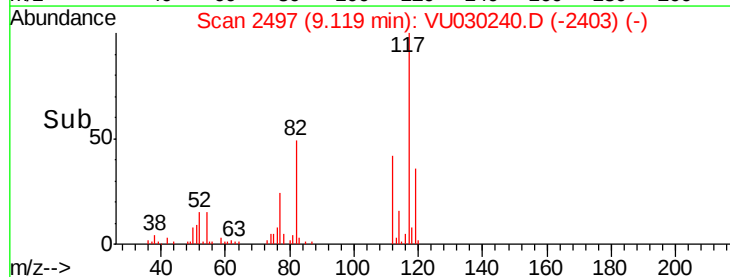
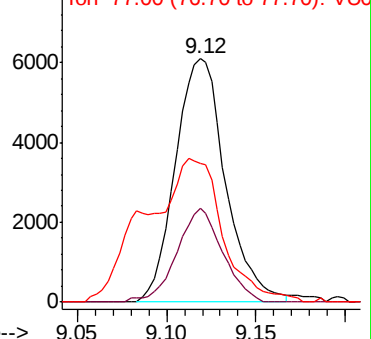
112 100

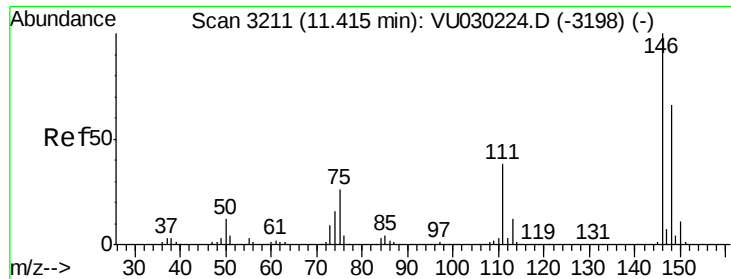
114 38.4 22.5 41.7

77 56.8 43.4 65.0



Abundance Ion 112.00 (111.70 to 112.70): VU030224.D (-2482) (-)

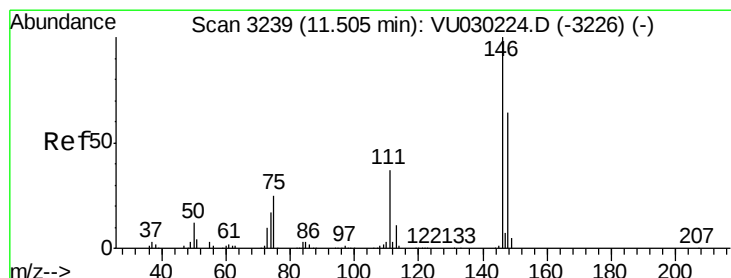
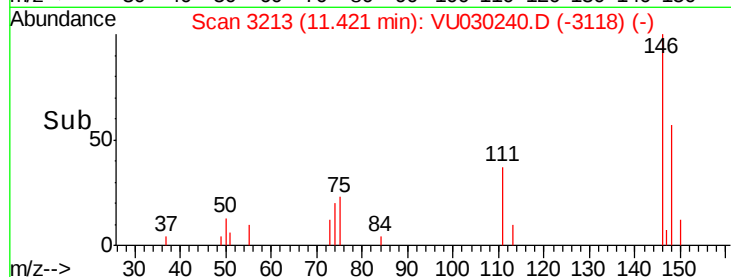
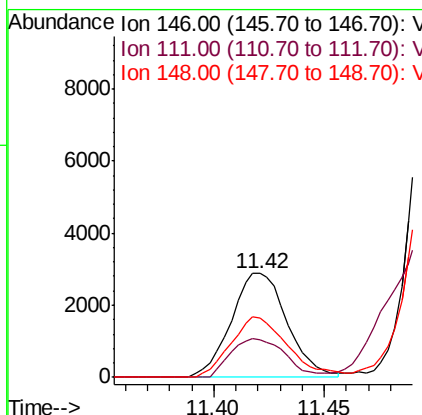
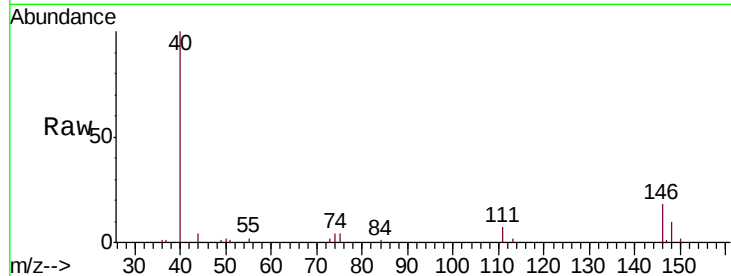




#62  
 1,3-Dichlorobenzene  
 Concen: 0.669 ug/L  
 RT: 11.42 min Scan# 3213  
 Delta R.T. 0.01 min  
 Lab File: VU030240.D  
 Acq: 20 Mar 2019 22:04

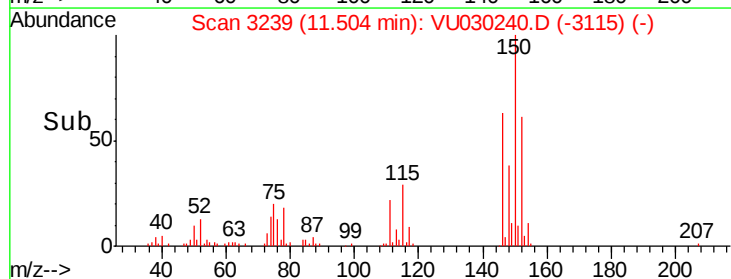
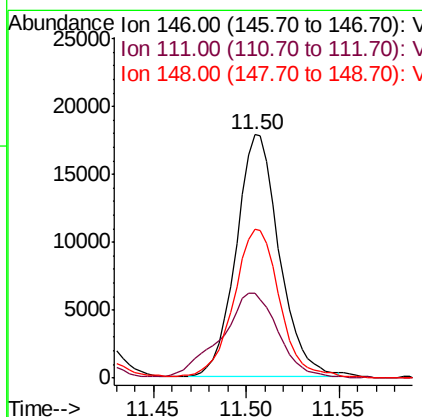
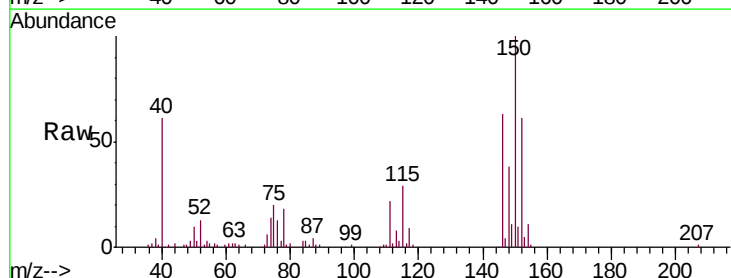
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 C09A3

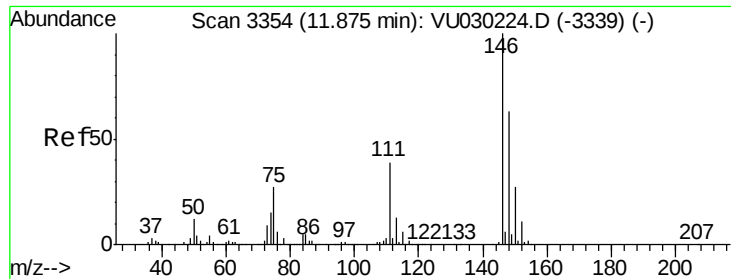
Tgt Ion:146 Resp: 5070  
 Ion Ratio Lower Upper  
 146 100  
 111 36.5 27.2 50.4  
 148 57.1 44.4 82.5



#63  
 1,4-Dichlorobenzene  
 Concen: 3.672 ug/L  
 RT: 11.50 min Scan# 3239  
 Delta R.T. -0.00 min  
 Lab File: VU030240.D  
 Acq: 20 Mar 2019 22:04

Tgt Ion:146 Resp: 28858  
 Ion Ratio Lower Upper  
 146 100  
 111 34.8 25.3 46.9  
 148 60.9 44.7 82.9





#65

1,2-Dichlorobenzene

Concen: 2.921 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU030240.D

Acq: 20 Mar 2019 22:04

Instrument :

MSVOA\_U

ClientSampleId :

C09A3

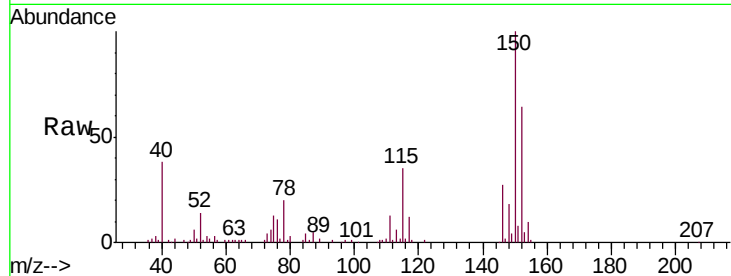
Tgt Ion:146 Resp: 22616

Ion Ratio Lower Upper

146 100

111 46.9 31.7 47.5

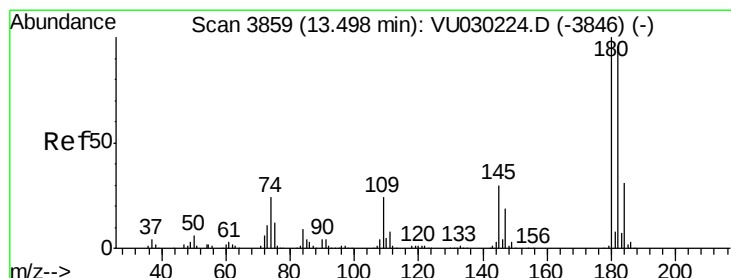
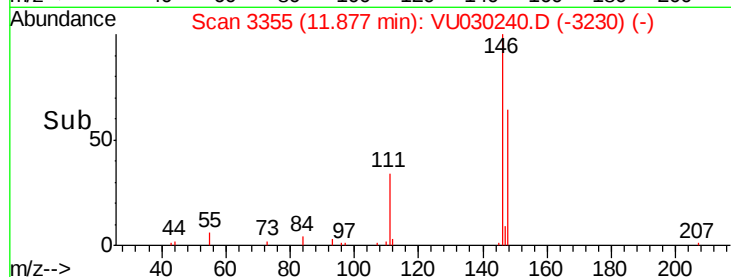
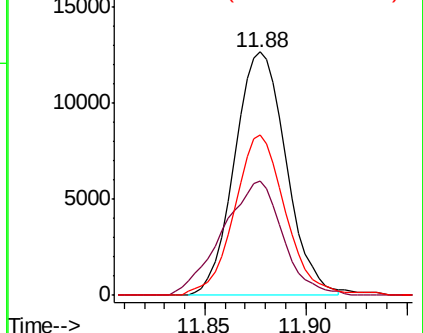
148 66.1 52.0 78.0



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: 1.121 ug/L

RT: 13.51 min Scan# 3863

Delta R.T. 0.01 min

Lab File: VU030240.D

Acq: 20 Mar 2019 22:04

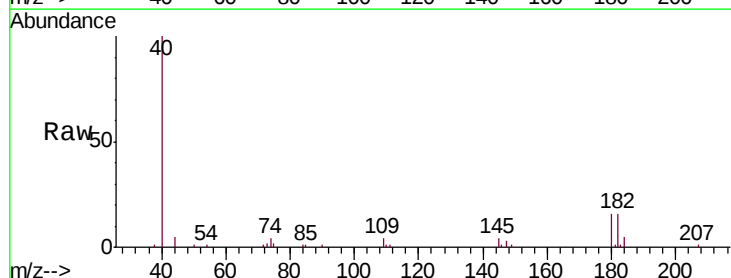
Tgt Ion:180 Resp: 5871

Ion Ratio Lower Upper

180 100

182 95.4 76.4 114.6

145 25.8 22.7 34.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

