

Data File : VV009652.D  
Acq On : 13 Mar 2019 22:42  
Operator : SY/MD  
Sample : K1794-15  
Misc : 4.54G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF5P2

Quant Time: Mar 14 07:42:25 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM031319S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 14 07:37:27 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 40881    | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 42163    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 13109    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 3302     | 6.32     | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 25.28%#  |
| 7) Chloroethane-d5             | 1.57   | 69    | 7245     | 11.23    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 44.92%   |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 10236    | 7.24     | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 28.96%#  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 159      | 1.16     | ug/L | 0.05     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 2.32%#   |
| 24) Chloroform-d               | 4.40   | 84    | 29606    | 28.41    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 113.64%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 26353    | 44.69    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 178.76%# |
| 29) Benzene-d6                 | 5.10   | 84    | 49552    | 22.41    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 89.64%   |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 23151    | 35.82    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 143.28%# |
| 37) Toluene-d8                 | 7.36   | 98    | 43859    | 20.50    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 82.00%   |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 1849     | 6.23     | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 24.92%#  |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 688      | 5.78     | ug/L | 0.01     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 11.56%#  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 23617    | 38.60    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 154.40%# |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 13480    | 26.55    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 106.20%  |

#### Target Compounds

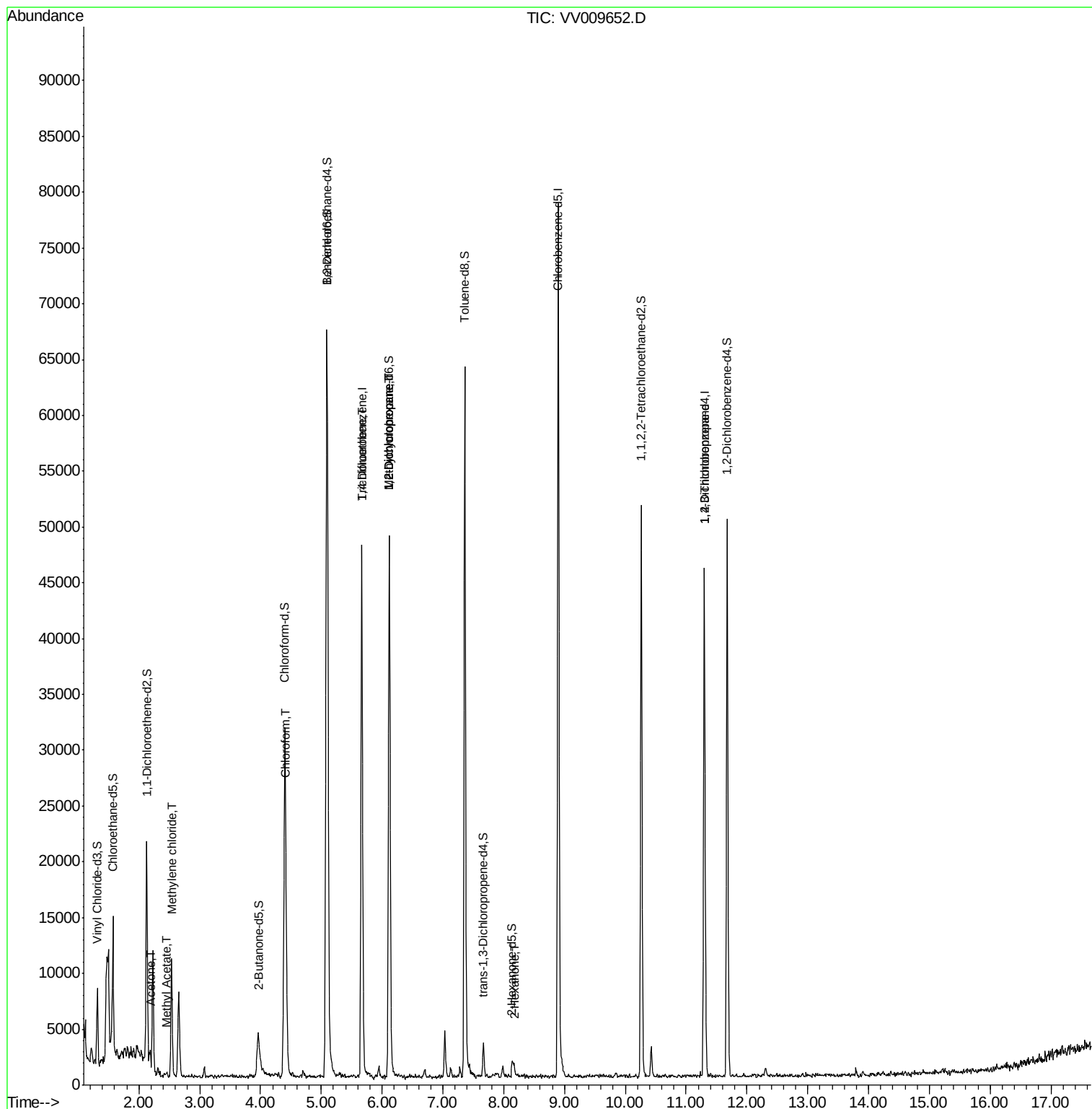
|                            |       |    |      |              | Qvalue |
|----------------------------|-------|----|------|--------------|--------|
| 13) Acetone                | 2.19  | 43 | 1564 | 9.475 ug/L   | 95     |
| 15) Methyl Acetate         | 2.45  | 43 | 126  | 0.523 ug/L # | 51     |
| 16) Methylene chloride     | 2.54  | 84 | 4239 | 7.123 ug/L   | 95     |
| 25) Chloroform             | 4.42  | 83 | 1635 | 1.539 ug/L # | 37     |
| 35) Trichloroethene        | 5.67  | 95 | 931  | 1.403 ug/L # | 5      |
| 36) Methylcyclohexane      | 6.12  | 83 | 5102 | 4.629 ug/L # | 21     |
| 40) 1,2-Dichloropropane    | 6.12  | 63 | 2461 | 4.238 ug/L # | 88     |
| 49) 2-Hexanone             | 8.18  | 43 | 702  | 2.354 ug/L # | 37     |
| 59) 1,2,3-Trichloropropane | 11.30 | 75 | 2162 | 4.787 ug/L   | 91     |

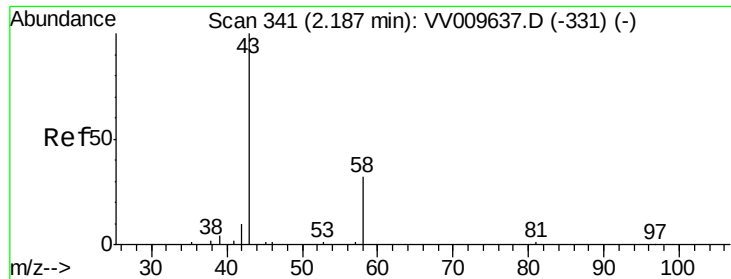
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VV009652.D  
Acq On : 13 Mar 2019 22:42  
Operator : SY/MD  
Sample : K1794-15  
Misc : 4.54G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF5P2

Quant Time: Mar 14 07:42:25 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM031319S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 14 07:37:27 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 9.475 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV009652.D

Acq: 13 Mar 2019 22:42

Instrument :

MSVOA\_V

ClientSampled :

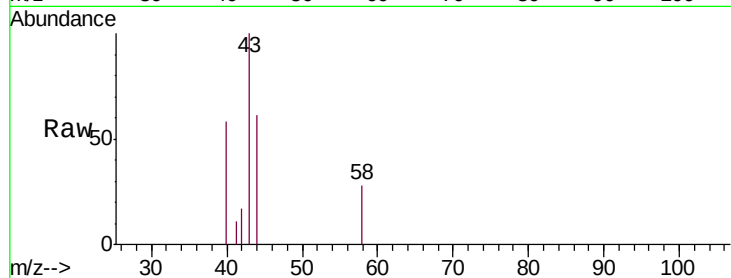
BF5P2

Tgt Ion: 43 Resp: 1564

Ion Ratio Lower Upper

43 100

58 29.5 0.0 64.8



Abundance Ion 43.00 (42.70 to 43.70): VV009637.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV009637.D (-331) (-)

2.19

1200

1000

800

600

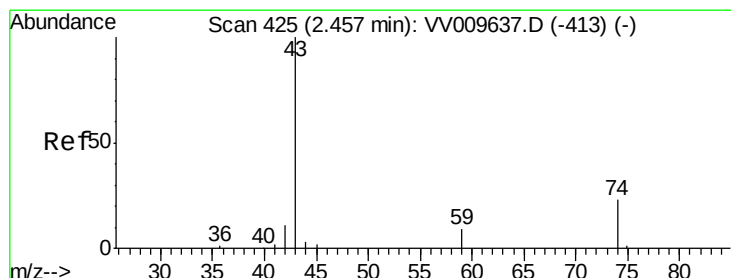
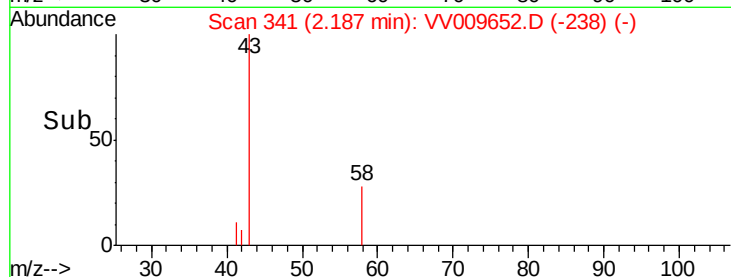
400

200

0

2.15 2.20 2.25

Time-->



#15

Methyl Acetate

Concen: 0.523 ug/L

RT: 2.45 min Scan# 425

Delta R.T. -0.01 min

Lab File: VV009652.D

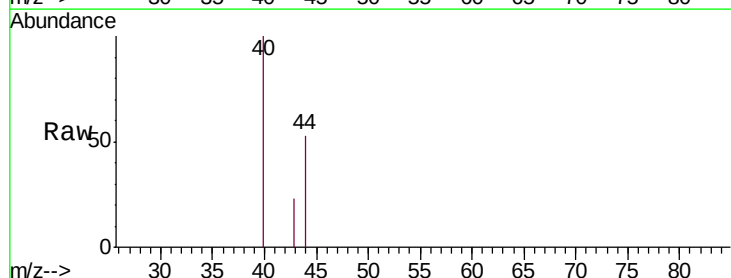
Acq: 13 Mar 2019 22:42

Tgt Ion: 43 Resp: 126

Ion Ratio Lower Upper

43 100

74 0.0 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VV009637.D (-413) (-)

Ion 74.00 (73.70 to 74.70): VV009637.D (-413) (-)

2.45

200

150

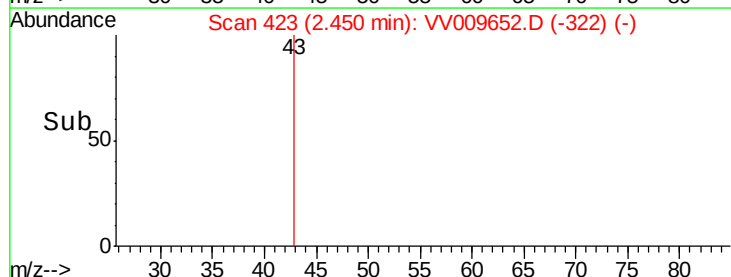
100

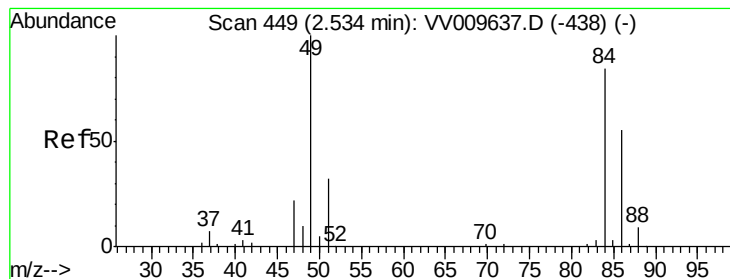
50

0

2.44 2.45 2.46

Time-->





#16

Methylene chloride

Concen: 7.123 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV009652.D

Acq: 13 Mar 2019 22:42

Instrument :

MSVOA\_V

ClientSampleId :

BF5P2

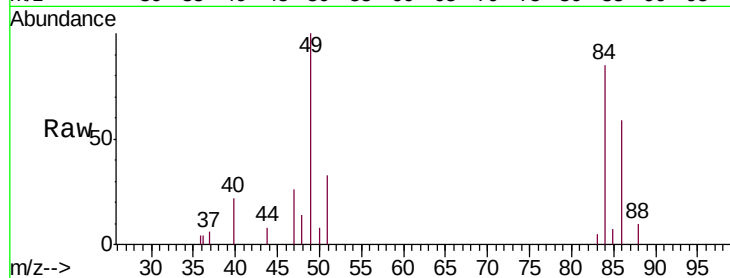
Tgt Ion: 84 Resp: 4239

Ion Ratio Lower Upper

84 100

49 117.3 86.1 159.9

86 69.0 45.2 84.0

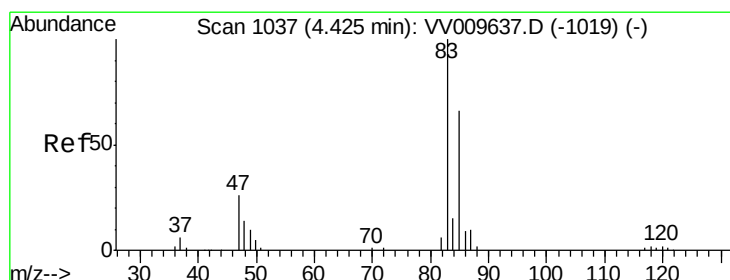
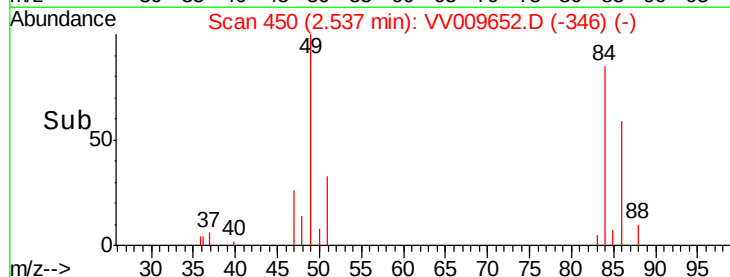


Abundance Ion 84.00 (83.70 to 84.70): VV009637.D (-438) (-)

Ion 49.00 (48.70 to 49.70): VV009637.D (-438) (-)

Ion 86.00 (85.70 to 86.70): VV009637.D (-438) (-)

Time-->



#25

Chloroform

Concen: 1.539 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VV009652.D

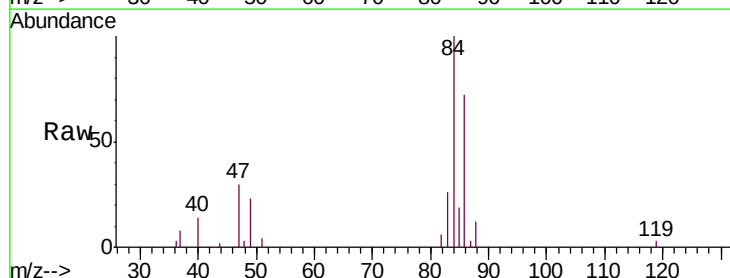
Acq: 13 Mar 2019 22:42

Tgt Ion: 83 Resp: 1635

Ion Ratio Lower Upper

83 100

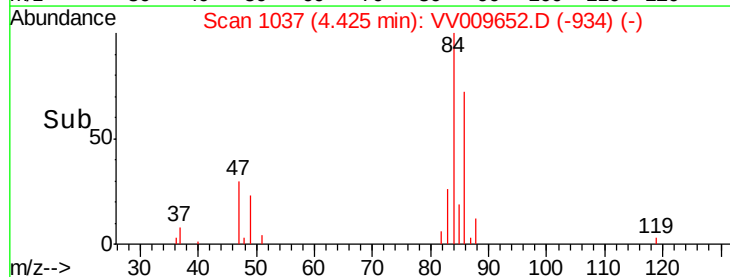
85 116.3 46.4 86.2#

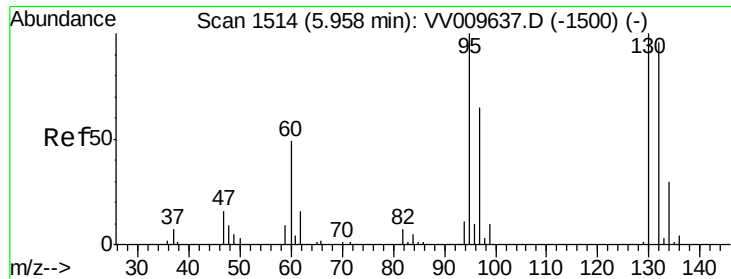


Abundance Ion 83.00 (82.70 to 83.70): VV009637.D (-1019) (-)

Ion 85.00 (84.70 to 85.70): VV009637.D (-1019) (-)

Time-->





#35

Trichloroethene

Concen: 1.403 ug/L

RT: 5.67 min Scan# 1423

Delta R.T. -0.29 min

Lab File: VV009652.D

Acq: 13 Mar 2019 22:42

Instrument :

MSVOA\_V

ClientSampled :

BF5P2

Tgt Ion: 95 Resp: 931

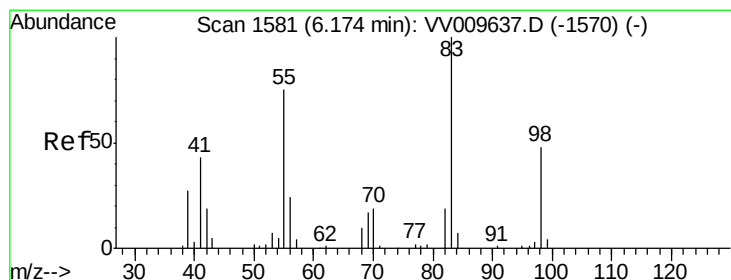
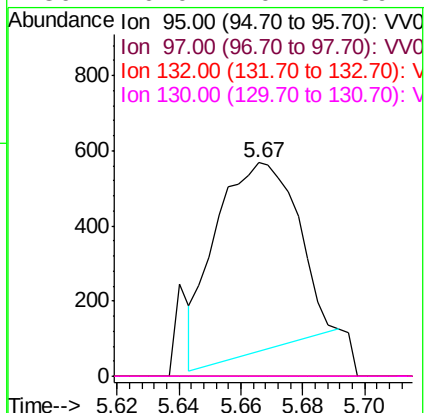
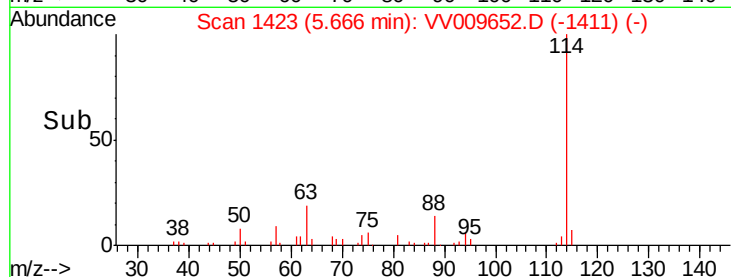
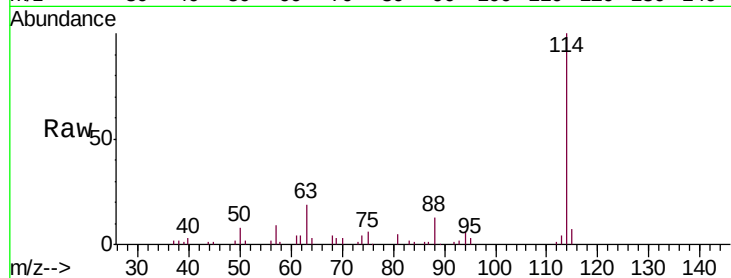
Ion Ratio Lower Upper

95 100

97 0.0 44.9 83.5#

132 0.0 66.4 123.2#

130 0.0 70.2 130.4#



#36

Methylcyclohexane

Concen: 4.629 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.06 min

Lab File: VV009652.D

Acq: 13 Mar 2019 22:42

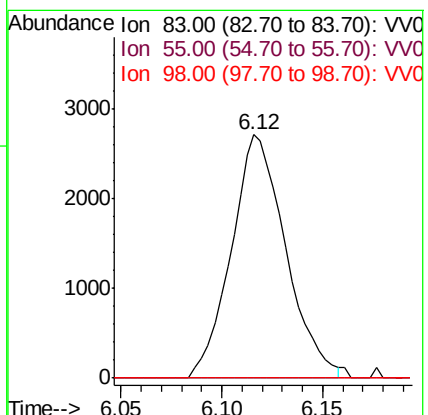
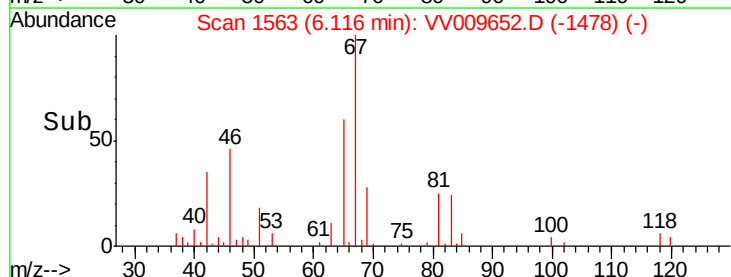
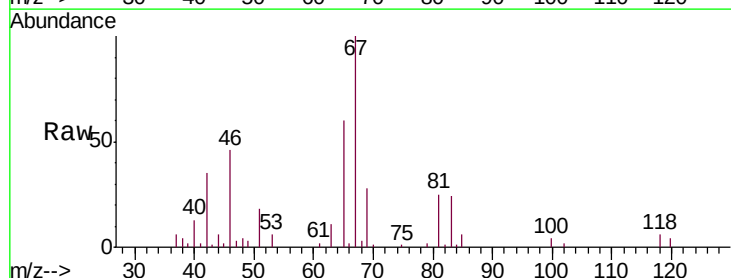
Tgt Ion: 83 Resp: 5102

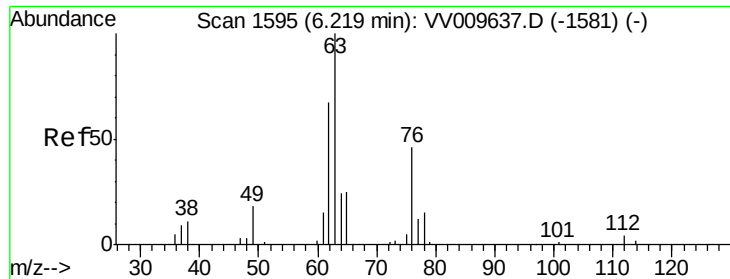
Ion Ratio Lower Upper

83 100

55 0.0 57.4 86.0#

98 1.0 37.1 55.7#

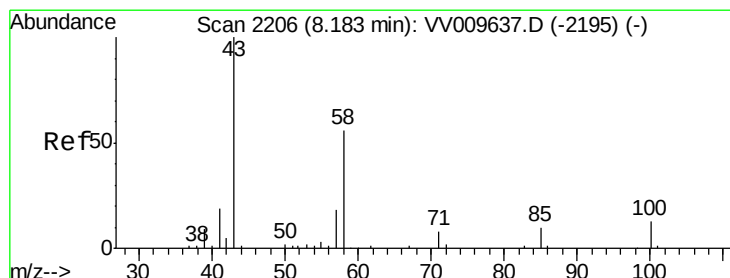
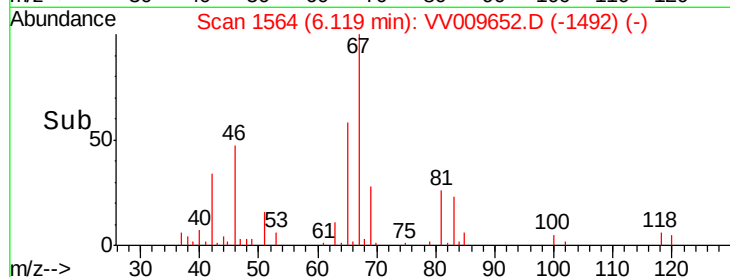
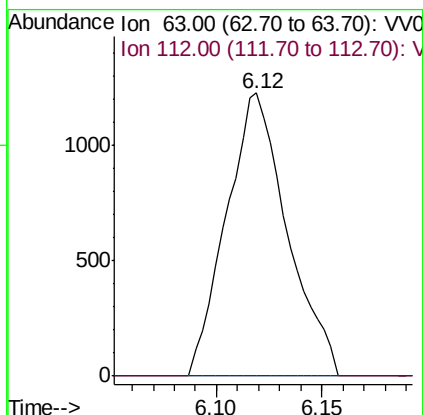
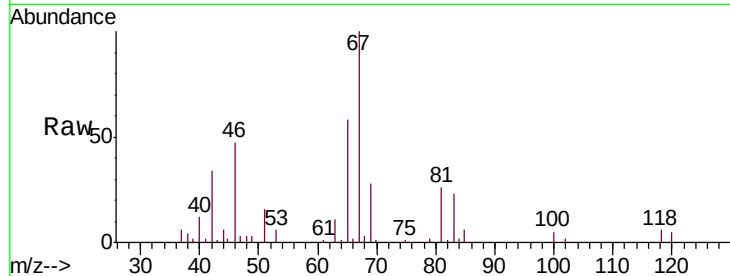




#40  
 1,2-Dichloropropane  
 Concen: 4.238 ug/L  
 RT: 6.12 min Scan# 1564  
 Delta R.T. -0.10 min  
 Lab File: VV009652.D  
 Acq: 13 Mar 2019 22:42

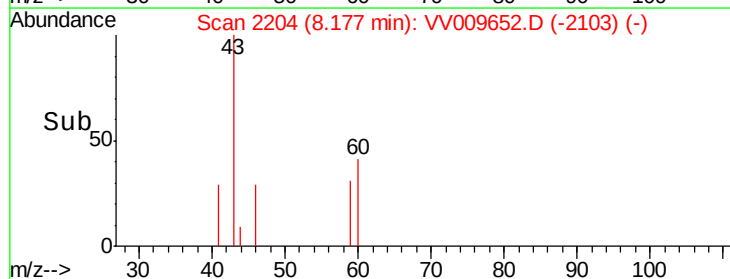
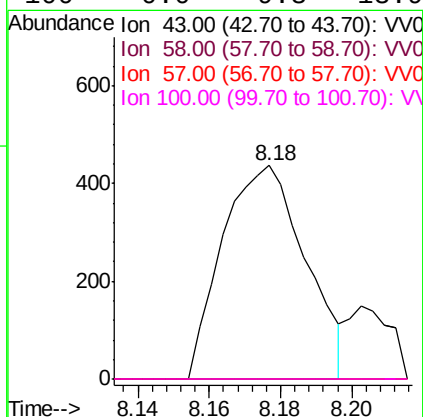
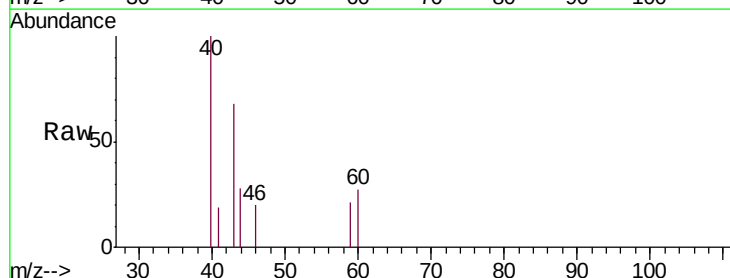
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 BF5P2

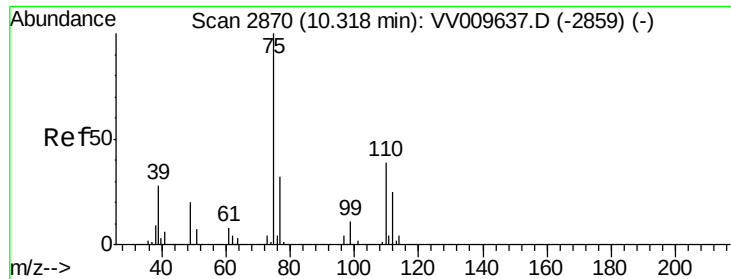
Tgt Ion: 63 Resp: 2461  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.2 4.8#



#49  
 2-Hexanone  
 Concen: 2.354 ug/L  
 RT: 8.18 min Scan# 2204  
 Delta R.T. -0.01 min  
 Lab File: VV009652.D  
 Acq: 13 Mar 2019 22:42

Tgt Ion: 43 Resp: 702  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 44.9 67.3#  
 57 0.0 14.5 21.7#  
 100 0.0 9.3 13.9#





#59  
 1,2,3-Trichloropropane  
 Concen: 4.787 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. 0.98 min  
 Lab File: VV009652.D  
 Acq: 13 Mar 2019 22:42

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF5P2

Tgt Ion: 75 Resp: 2162  
 Ion Ratio Lower Upper  
 75 100  
 77 36.5 25.3 37.9

