

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV041119\  
 Data File : VV010250.D  
 Acq On : 11 Apr 2019 17:57  
 Operator : SY/MD  
 Sample : K2255-20  
 Misc : 6.00G/10mL/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFC21

Quant Time: Apr 12 01:29:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 12 01:24:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 492      | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 946      | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.32 | 152  | 194      | 25.00 | ug/L  | 0.02     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 1198     | 211.53   | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 846.12%# |
| 7) Chloroethane-d5             | 1.59   | 69    | 1005     | 206.48   | ug/L | 0.02     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 825.92%# |
| 10) 1,1-Dichloroethene-d2      | 2.15   | 63    | 1771     | 122.85   | ug/L | 0.02     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 491.40%# |
| 20) 2-Butanone-d5              | 3.98   | 46    | 45       | 31.40    | ug/L | 0.05     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 62.80%   |
| 24) Chloroform-d               | 4.41   | 84    | 963      | 85.71    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 342.84%# |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 535      | 83.60    | ug/L | 0.01     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 334.40%# |
| 29) Benzene-d6                 | 5.11   | 84    | 1882     | 41.26    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 165.04%# |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 219      | 16.14    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 64.56%#  |
| 37) Toluene-d8                 | 7.37   | 98    | 977      | 21.96    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 87.84%   |
| 38) trans-1,3-Dichloropropene- | 7.68   | 79    | 70       | 12.37    | ug/L | 0.02     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 49.48%   |
| 39) 2-Hexanone-d5              | 0.00   | 63    | 0        | 0.00     | ug/L |          |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 0.00%#   |
| 48) 1,1,2,2-Tetrachloroethane- | 10.28  | 84    | 503      | 41.31    | ug/L | 0.02     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 165.24%# |
| 61) 1,2-Dichlorobenzene-d4     | 11.69  | 152   | 181      | 25.26    | ug/L | 0.02     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 101.04%  |

## Target Compounds

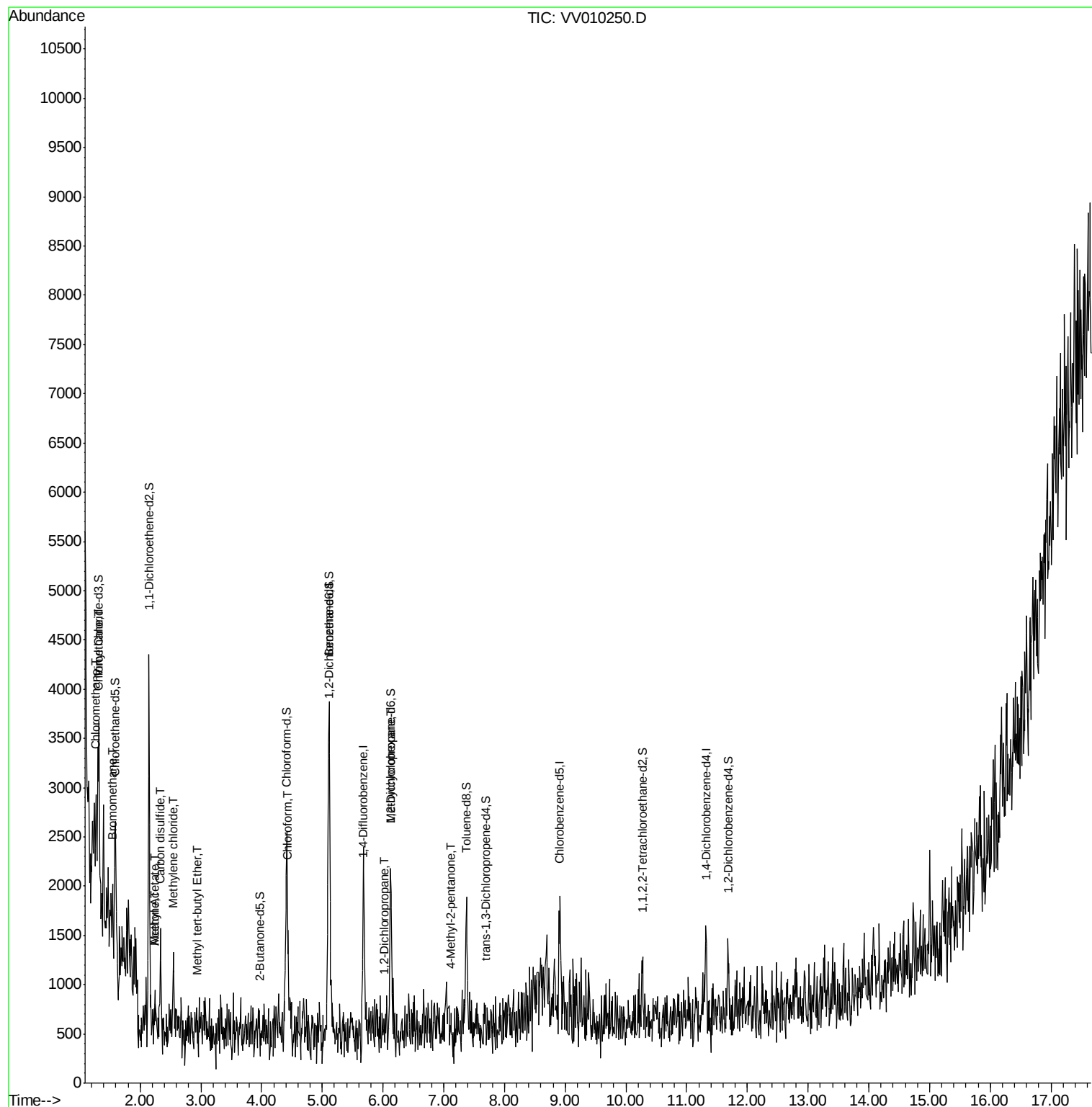
|                             |      |    |     |               | Qvalue |
|-----------------------------|------|----|-----|---------------|--------|
| 3) Chloromethane            | 1.26 | 50 | 132 | 20.403 ug/L # | 43     |
| 6) Bromomethane             | 1.55 | 94 | 134 | 23.765 ug/L # | 3      |
| 8) Chloroethane             | 1.30 | 64 | 65  | 14.983 ug/L # | 42     |
| 13) Acetone                 | 2.24 | 43 | 83  | 54.201 ug/L   | 62     |
| 14) Carbon disulfide        | 2.34 | 76 | 763 | 48.673 ug/L # | 63     |
| 15) Methyl Acetate          | 2.24 | 43 | 83  | 30.432 ug/L # | 51     |
| 16) Methylene chloride      | 2.55 | 84 | 265 | 27.503 ug/L # | 56     |
| 17) Methyl tert-butyl Ether | 2.95 | 73 | 45  | 3.204 ug/L #  | 35     |
| 25) Chloroform              | 4.43 | 83 | 130 | 10.787 ug/L # | 18     |
| 36) Methylcyclohexane       | 6.13 | 83 | 97  | 4.685 ug/L #  | 20     |
| 40) 1,2-Dichloropropane     | 6.02 | 63 | 41  | 3.494 ug/L #  | 85     |
| 43) 4-Methyl-2-pentanone    | 7.12 | 43 | 42  | 5.530 ug/L #  | 1      |

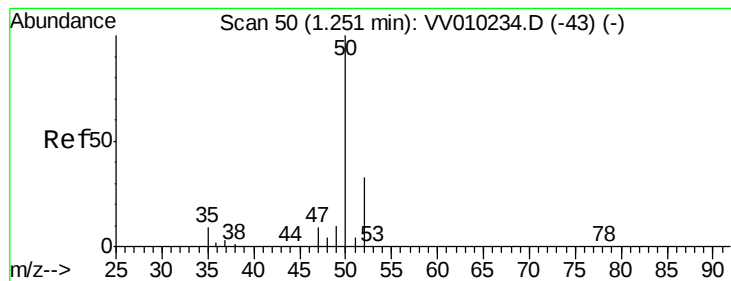
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV041119\  
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Operator : SY/MD  
Sample : K2255-20  
Misc : 6.00G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFC21

Quant Time: Apr 12 01:29:08 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041019S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Apr 12 01:24:48 2019  
Response via : Initial Calibration





#3

Chloromethane

Concen: 20.403 ug/L

RT: 1.26 min Scan# 53

Delta R.T. 0.01 min

Lab File: VV010250.D

Acq: 11 Apr 2019 17:57

Instrument :

MSVOA\_V

ClientSampleId :

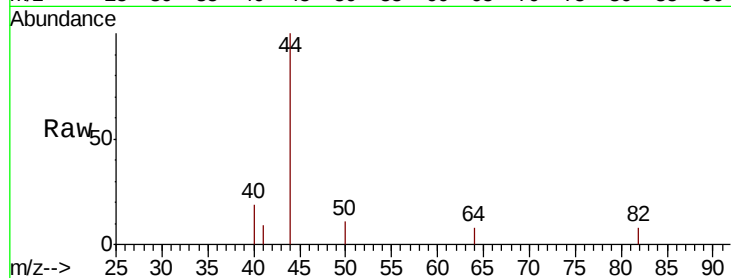
BFC21

Tgt Ion: 50 Resp: 132

Ion Ratio Lower Upper

50 100

52 0.0 22.4 41.6#



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

1.26

150

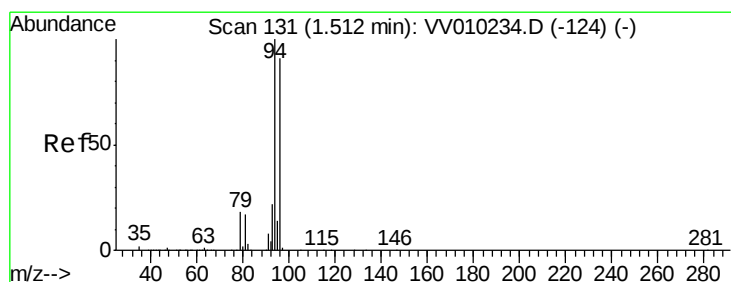
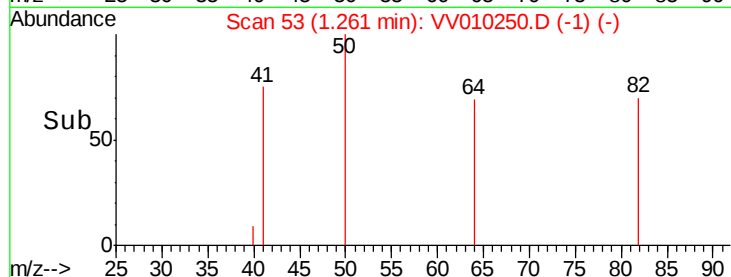
100

50

0

1.25 1.26 1.27

Time-->



#6

Bromomethane

Concen: 23.765 ug/L

RT: 1.55 min Scan# 143

Delta R.T. 0.04 min

Lab File: VV010250.D

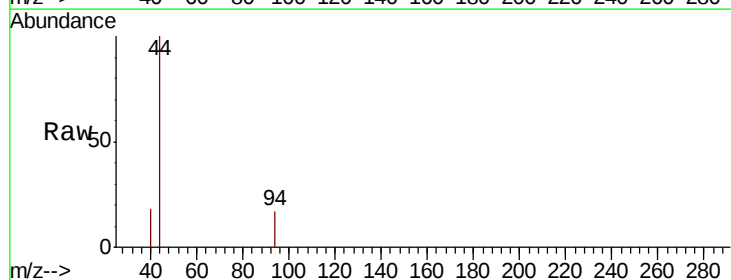
Acq: 11 Apr 2019 17:57

Tgt Ion: 94 Resp: 134

Ion Ratio Lower Upper

94 100

96 0.0 9.4 179.0#



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.55

250

200

150

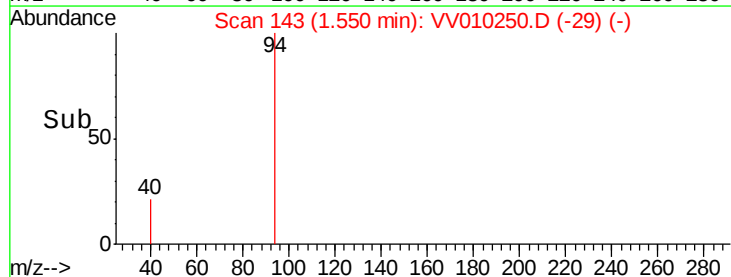
100

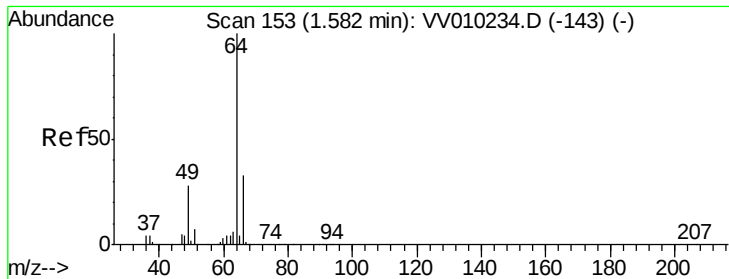
50

0

1.54 1.55 1.56

Time-->





#8

Chloroethane

Concen: 14.983 ug/L

RT: 1.30 min Scan# 66

Delta R.T. -0.29 min

Lab File: VV010250.D

Acq: 11 Apr 2019 17:57

Instrument :

MSVOA\_V

ClientSampled :

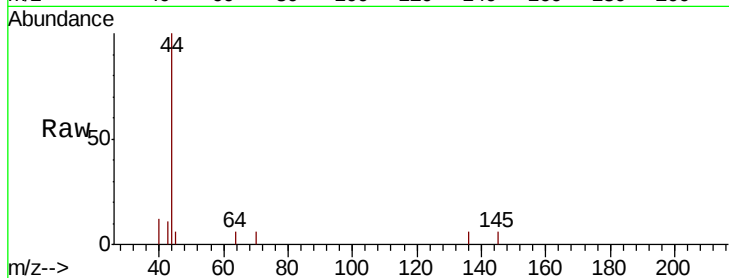
BFC21

Tgt Ion: 64 Resp: 65

Ion Ratio Lower Upper

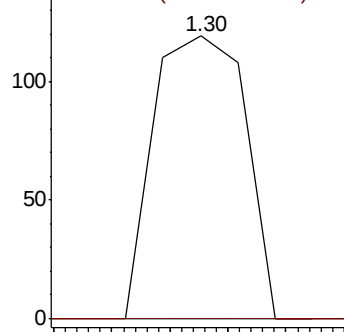
64 100

66 0.0 22.8 42.4#

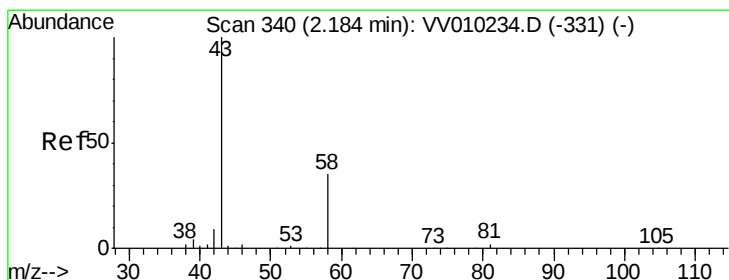
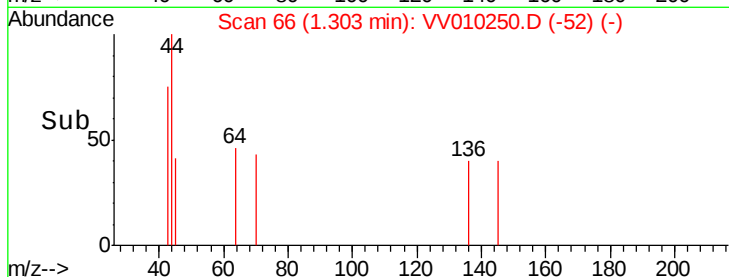


Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0



Time-->



#13

Acetone

Concen: 54.201 ug/L

RT: 2.24 min Scan# 357

Delta R.T. 0.05 min

Lab File: VV010250.D

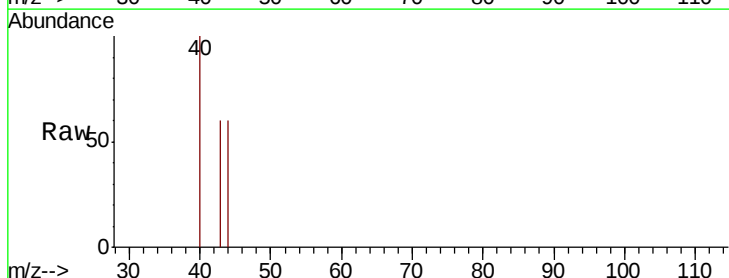
Acq: 11 Apr 2019 17:57

Tgt Ion: 43 Resp: 83

Ion Ratio Lower Upper

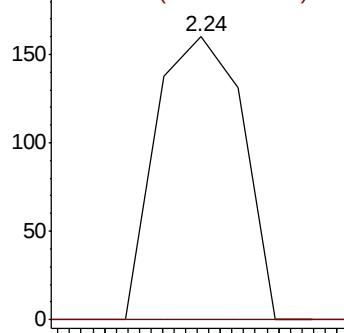
43 100

58 51.8 0.0 61.6

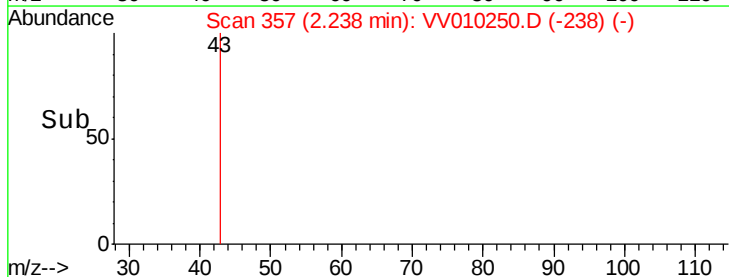


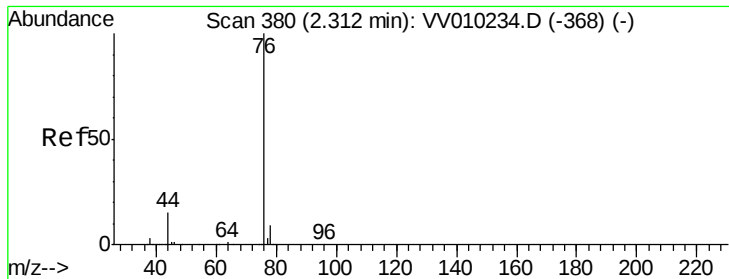
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



Time-->





#14

Carbon disulfide

Concen: 48.673 ug/L

RT: 2.34 min Scan# 388

Delta R.T. 0.02 min

Lab File: VV010250.D

Acq: 11 Apr 2019 17:57

Instrument :

MSVOA\_V

ClientSampleId :

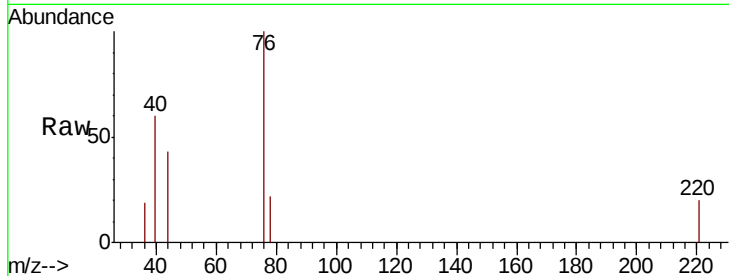
BFC21

Tgt Ion: 76 Resp: 763

Ion Ratio Lower Upper

76 100

78 22.1 7.0 10.4#



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.34

600

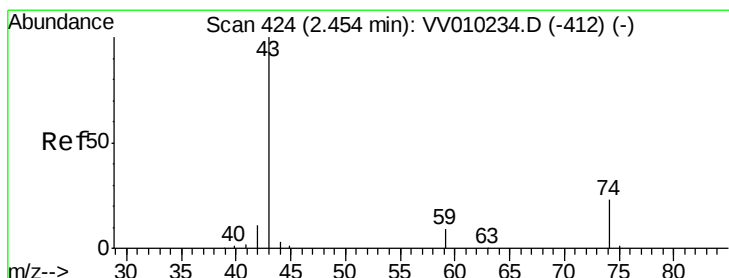
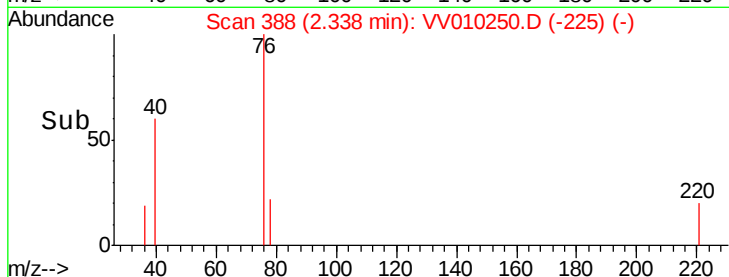
400

200

0

2.30 2.32 2.34 2.36

Time-->



#15

Methyl Acetate

Concen: 30.432 ug/L

RT: 2.24 min Scan# 357

Delta R.T. -0.22 min

Lab File: VV010250.D

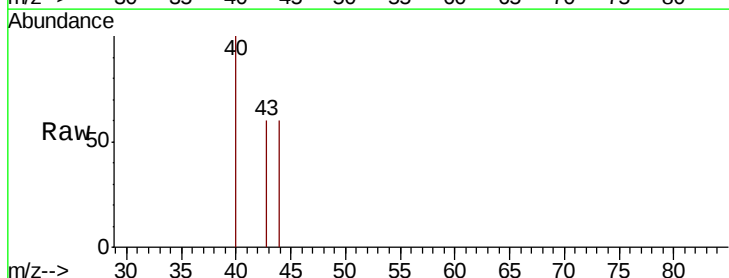
Acq: 11 Apr 2019 17:57

Tgt Ion: 43 Resp: 83

Ion Ratio Lower Upper

43 100

74 0.0 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

2.24

150

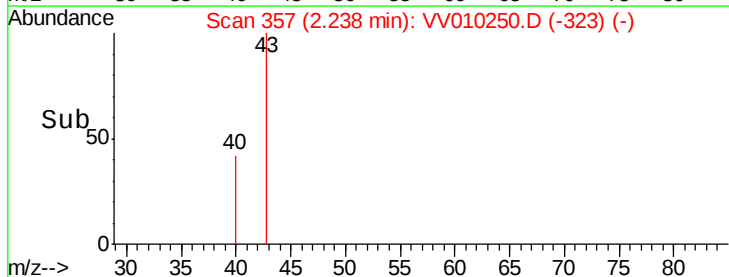
100

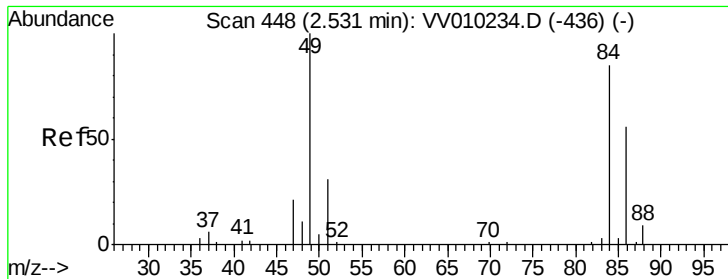
50

0

2.23 2.23 2.24 2.25

Time-->

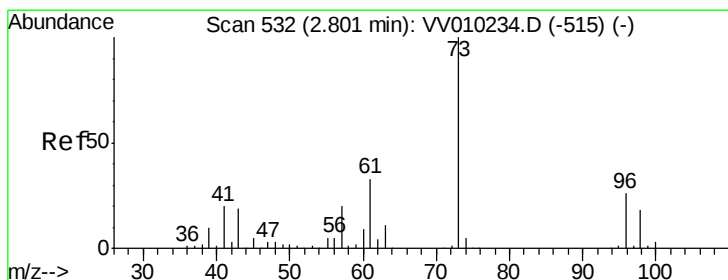
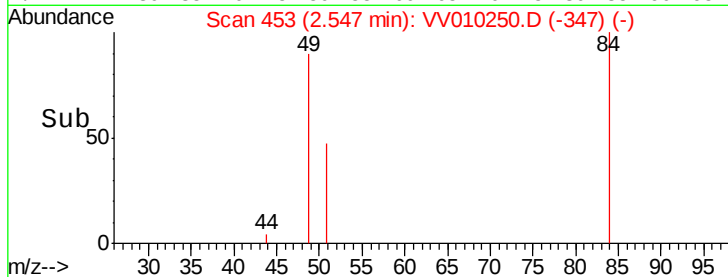
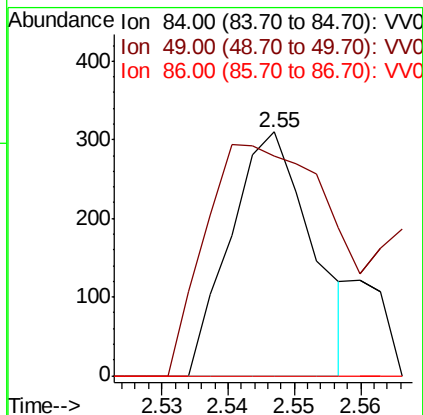
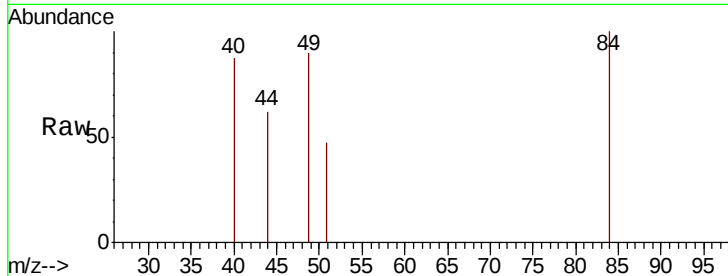




#16  
Methylene chloride  
Concen: 27.503 ug/L  
RT: 2.55 min Scan# 453  
Delta R.T. 0.01 min  
Lab File: VV010250.D  
Acq: 11 Apr 2019 17:57

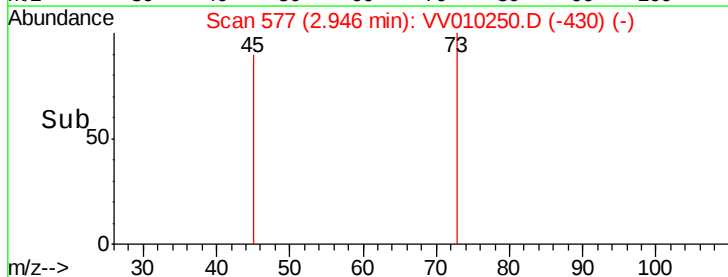
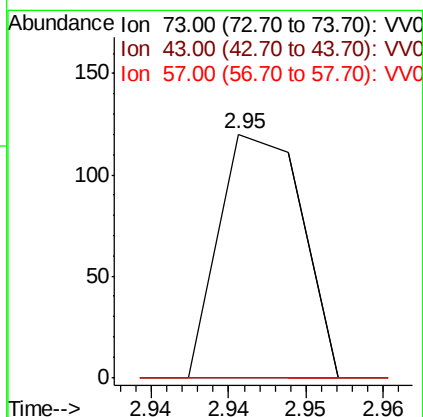
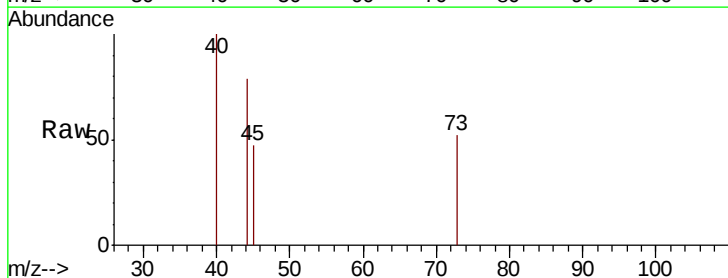
Instrument :  
MSVOA\_V  
ClientSampled :  
BFC21

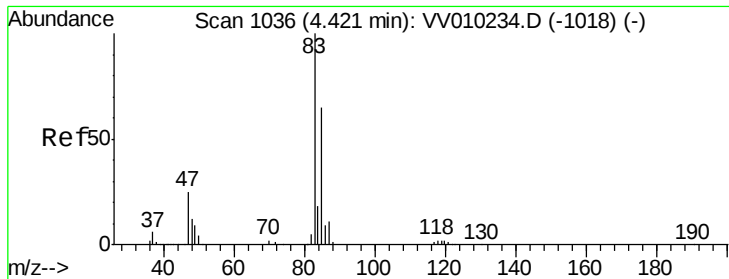
Tgt Ion: 84 Resp: 265  
Ion Ratio Lower Upper  
84 100  
49 90.0 79.9 148.5  
86 0.0 44.5 82.7#



#17  
Methyl tert-butyl Ether  
Concen: 3.204 ug/L  
RT: 2.95 min Scan# 577  
Delta R.T. 0.14 min  
Lab File: VV010250.D  
Acq: 11 Apr 2019 17:57

Tgt Ion: 73 Resp: 45  
Ion Ratio Lower Upper  
73 100  
43 60.0 16.0 24.0#  
57 0.0 16.6 24.8#





#25

Chloroform

Concen: 10.787 ug/L

RT: 4.43 min Scan# 1040

Delta R.T. 0.01 min

Lab File: VV010250.D

Acq: 11 Apr 2019 17:57

Instrument :

MSVOA\_V

ClientSampled :

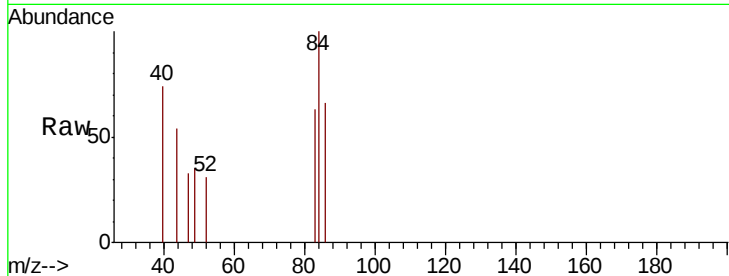
BFC21

Tgt Ion: 83 Resp: 130

Ion Ratio Lower Upper

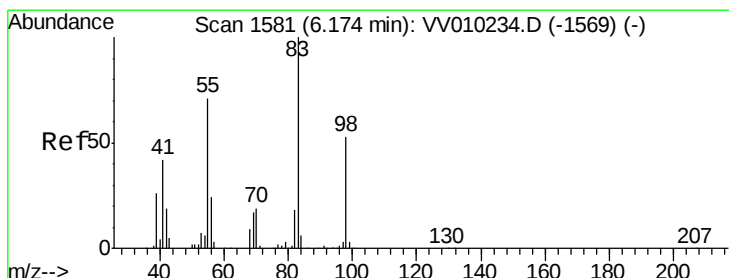
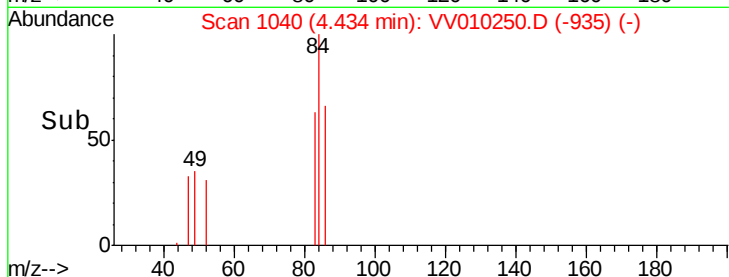
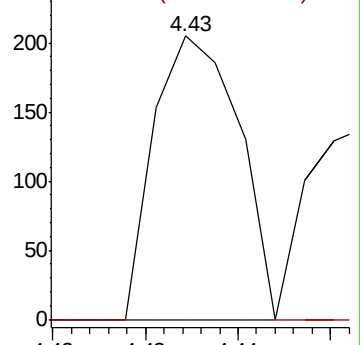
83 100

85 0.0 45.4 84.2#



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#36

Methylcyclohexane

Concen: 4.685 ug/L

RT: 6.13 min Scan# 1568

Delta R.T. -0.04 min

Lab File: VV010250.D

Acq: 11 Apr 2019 17:57

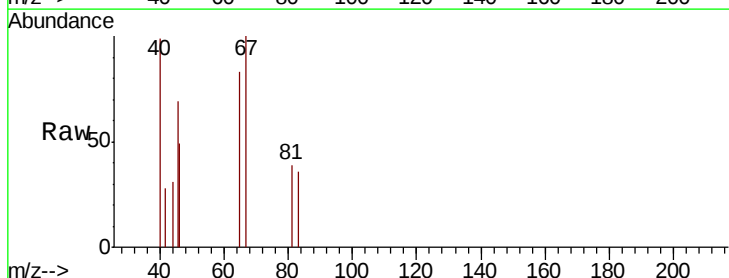
Tgt Ion: 83 Resp: 97

Ion Ratio Lower Upper

83 100

55 0.0 55.7 83.5#

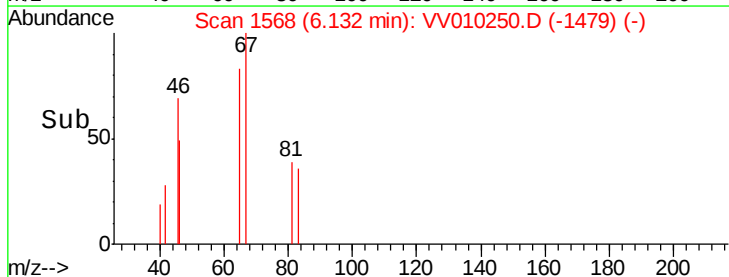
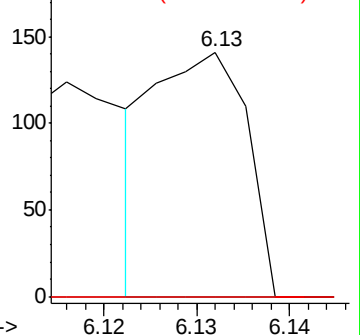
98 0.0 39.4 59.2#

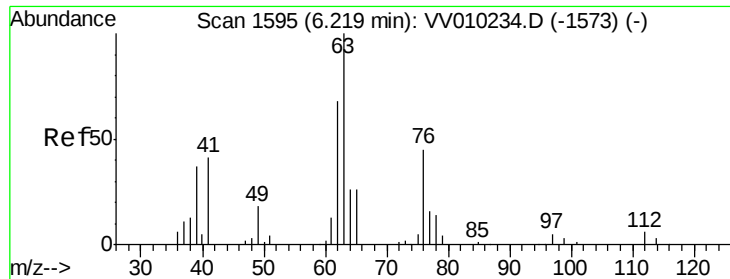


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

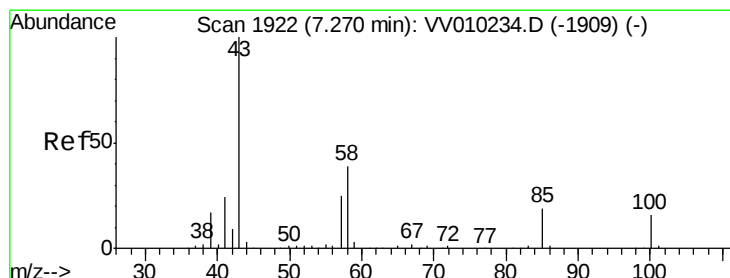
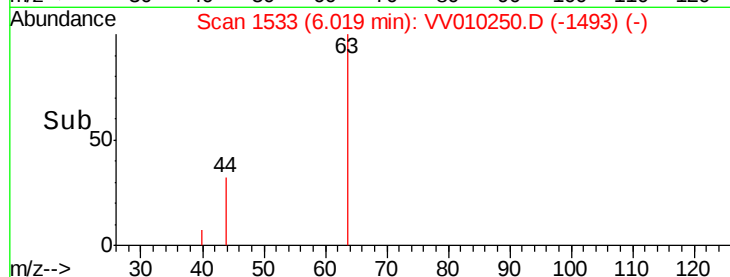
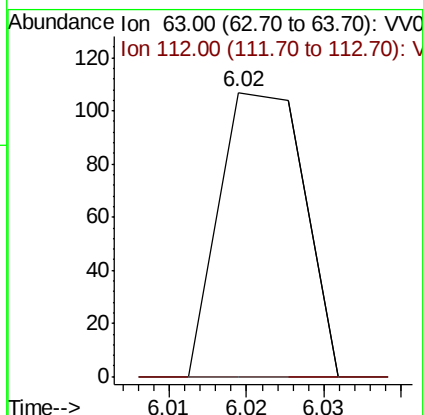
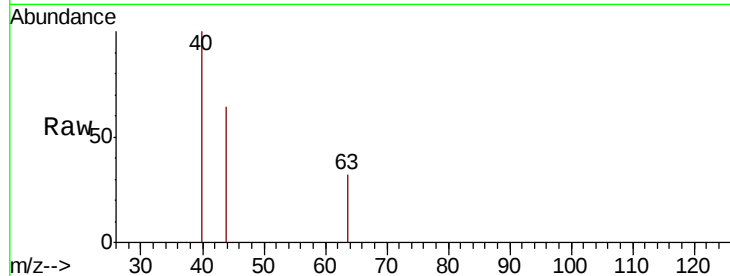




#40  
 1,2-Dichloropropane  
 Concen: 3.494 ug/L  
 RT: 6.02 min Scan# 1533  
 Delta R.T. -0.20 min  
 Lab File: VV010250.D  
 Acq: 11 Apr 2019 17:57

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 BFC21

Tgt Ion: 63 Resp: 41  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 4.0 6.0#



#43  
 4-Methyl-2-pentanone  
 Concen: 5.530 ug/L  
 RT: 7.12 min Scan# 1876  
 Delta R.T. -0.15 min  
 Lab File: VV010250.D  
 Acq: 11 Apr 2019 17:57

Tgt Ion: 43 Resp: 42  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 30.4 45.6#  
 100 264.3 13.5 20.3#

