

Data File : VV009402.D  
Acq On : 27 Feb 2019 16:58  
Operator : SY/MD  
Sample : K1626-09  
Misc : 5.81G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF668

Quant Time: Feb 28 04:36:50 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM022619S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Feb 28 04:32:57 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 158336   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 142249   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 51939    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 41862    | 21.01    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 84.04%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 69023    | 26.65    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 106.60% |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 87866    | 16.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 66.72%  |
| 20) 2-Butanone-d5              | 3.95   | 46    | 30379    | 50.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.24% |
| 24) Chloroform-d               | 4.41   | 84    | 100416   | 26.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 104.60% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 60667    | 28.56    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 114.24% |
| 29) Benzene-d6                 | 5.29   | 84    | 168      | 0.02     | ug/L | 0.19    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 0.08%#  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 64901    | 29.29    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 117.16% |
| 37) Toluene-d8                 | 7.36   | 98    | 186774   | 25.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 103.00% |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 24251    | 21.89    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 87.56%  |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 24635    | 52.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 105.06% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 53747    | 24.83    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 99.32%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 48483    | 25.20    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 100.80% |

#### Target Compounds

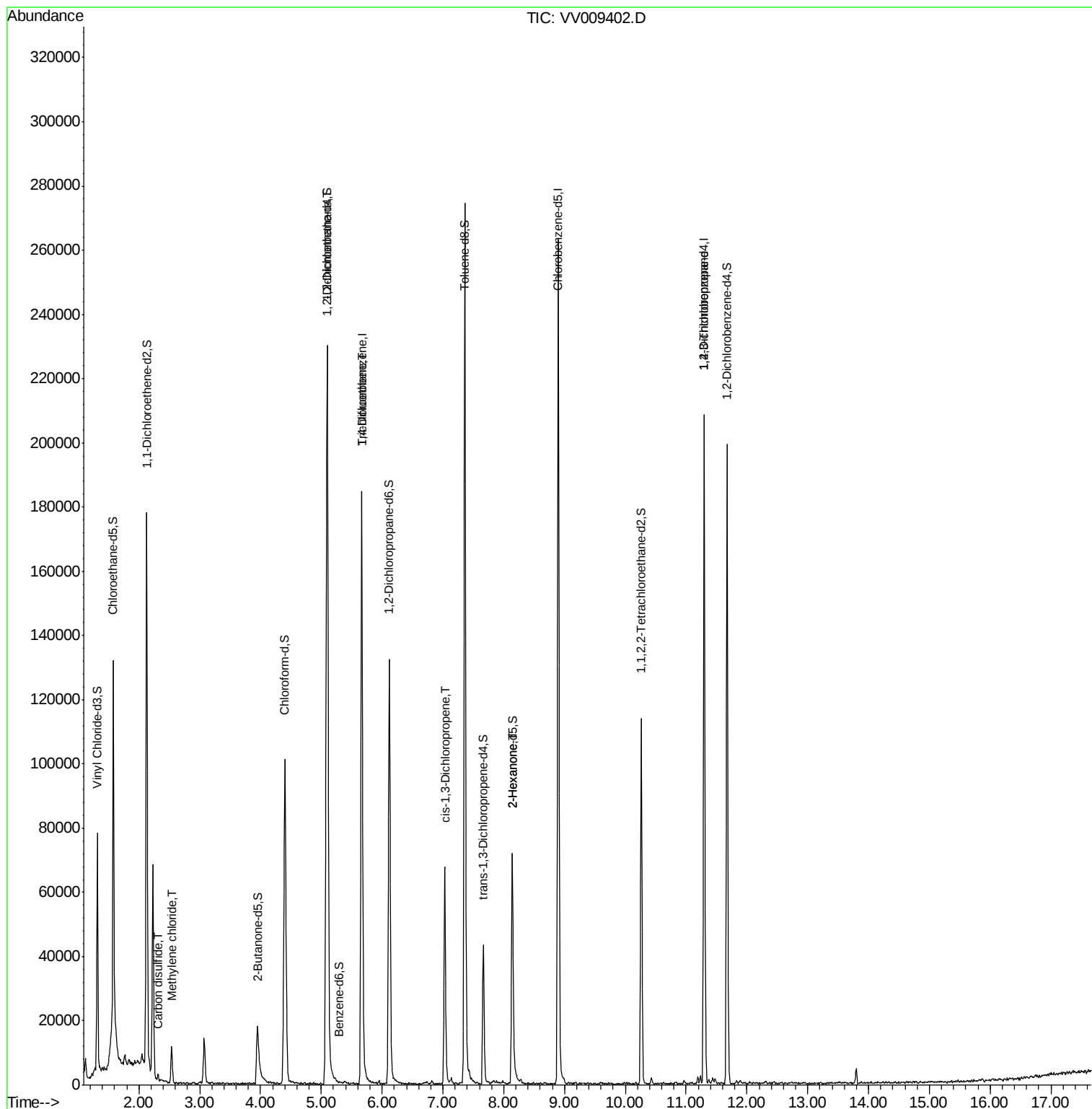
|                             |       |    |      |              | Qvalue |
|-----------------------------|-------|----|------|--------------|--------|
| 14) Carbon disulfide        | 2.32  | 76 | 2472 | 0.418 ug/L   | 100    |
| 16) Methylene chloride      | 2.54  | 84 | 5048 | 2.354 ug/L   | 94     |
| 27) 1,2-Dichloroethane      | 5.10  | 62 | 1161 | 0.439 ug/L # | 77     |
| 35) Trichloroethene         | 5.67  | 95 | 5140 | 2.341 ug/L # | 6      |
| 42) cis-1,3-Dichloropropene | 7.04  | 75 | 1800 | 0.575 ug/L # | 61     |
| 49) 2-Hexanone              | 8.14  | 43 | 3810 | 3.239 ug/L # | 79     |
| 59) 1,2,3-Trichloropropane  | 11.30 | 75 | 8136 | 5.162 ug/L   | 96     |

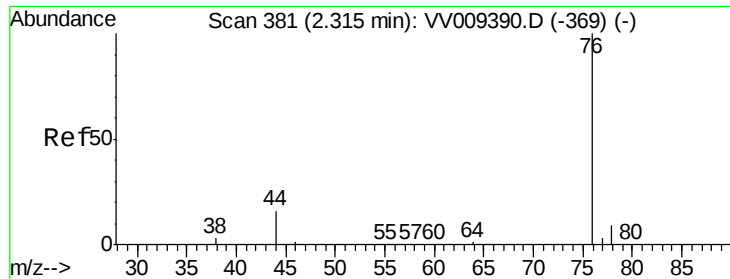
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#14

Carbon disulfide

Concen: 0.418 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

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Acq: 27 Feb 2019 16:58

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MSVOA\_V

ClientSampleId :

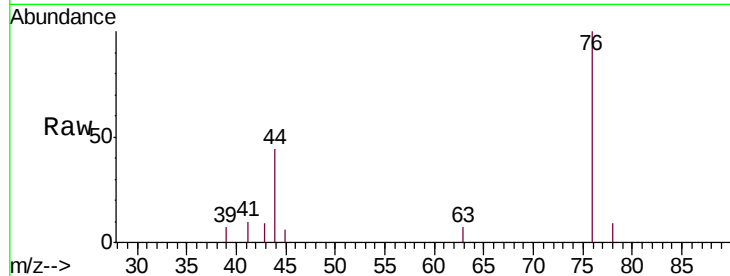
BF668

Tgt Ion: 76 Resp: 2472

Ion Ratio Lower Upper

76 100

78 9.3 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV009390.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV009390.D (-369) (-)

2.32

1500

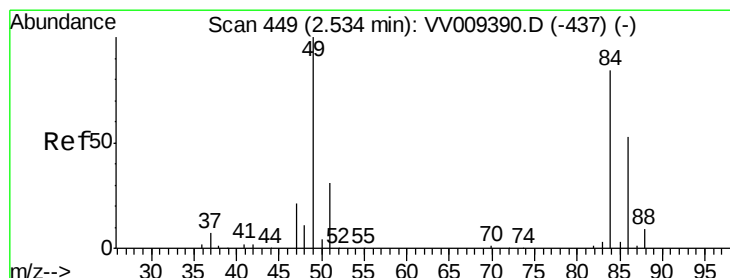
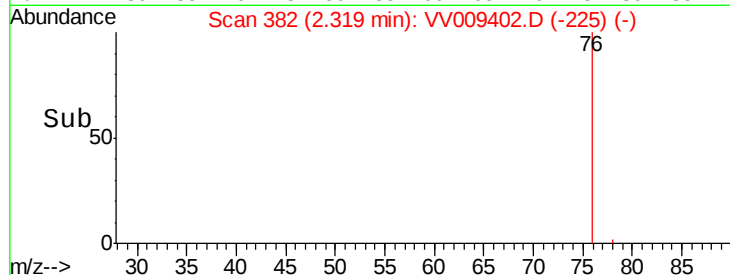
1000

500

0

2.28 2.30 2.32 2.34 2.36

Time-->



#16

Methylene chloride

Concen: 2.354 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV009402.D

Acq: 27 Feb 2019 16:58

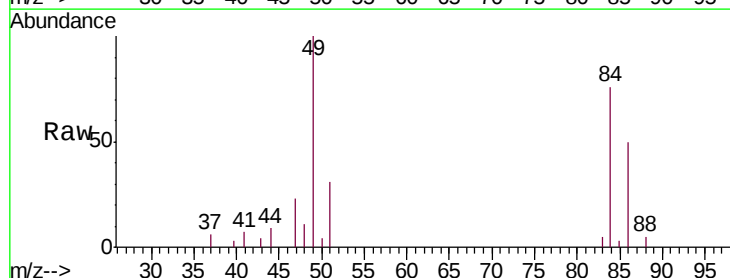
Tgt Ion: 84 Resp: 5048

Ion Ratio Lower Upper

84 100

49 131.4 84.6 157.0

86 65.2 46.1 85.7



Abundance Ion 84.00 (83.70 to 84.70): VV009390.D (-437) (-)

Ion 49.00 (48.70 to 49.70): VV009390.D (-437) (-)

Ion 86.00 (85.70 to 86.70): VV009390.D (-437) (-)

2.54

4000

3000

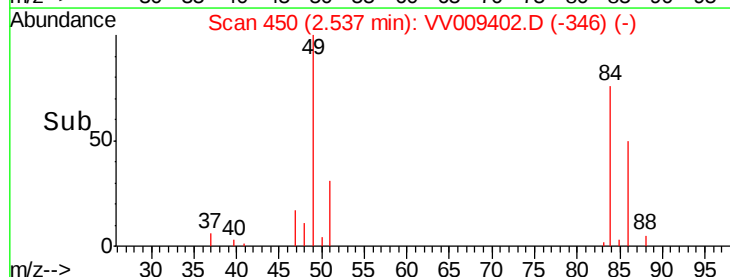
2000

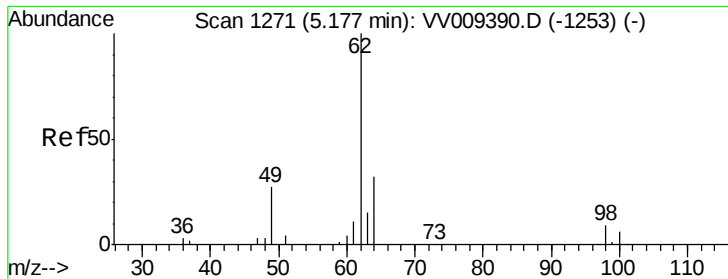
1000

0

2.50 2.55 2.60

Time-->





#27

1,2-Dichloroethane

Concen: 0.439 ug/L

RT: 5.10 min Scan# 1248

Delta R.T. -0.07 min

Lab File: VV009402.D

Acq: 27 Feb 2019 16:58

Instrument :

MSVOA\_V

ClientSampleId :

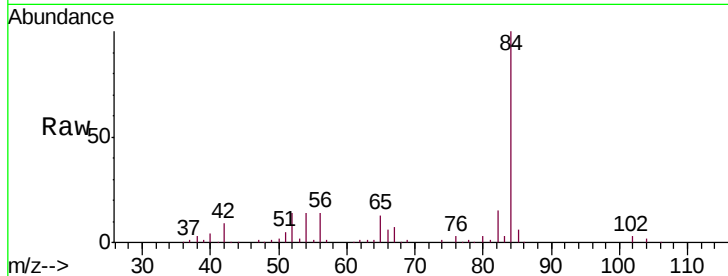
BF668

Tgt Ion: 62 Resp: 1161

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



Abundance Ion 62.00 (61.70 to 62.70): VV009390.D (-1253) (-)

Ion 98.00 (97.70 to 98.70): VV009390.D (-1253) (-)

5.10

600

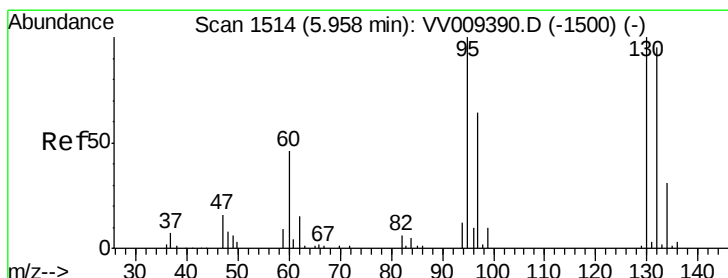
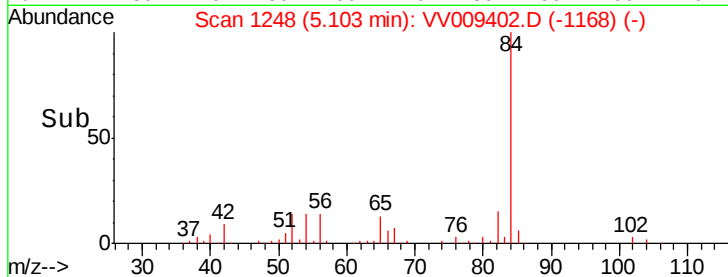
400

200

0

5.06 5.08 5.10 5.12 5.14

Time-->



#35

Trichloroethene

Concen: 2.341 ug/L

RT: 5.67 min Scan# 1423

Delta R.T. -0.29 min

Lab File: VV009402.D

Acq: 27 Feb 2019 16:58

Tgt Ion: 95 Resp: 5140

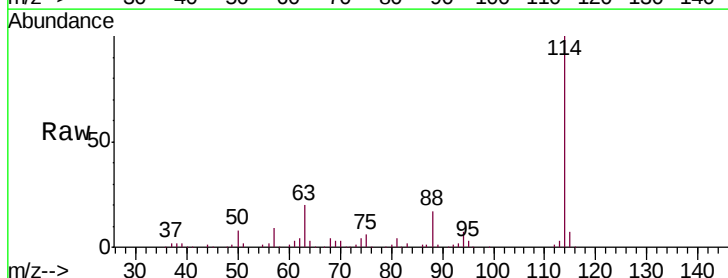
Ion Ratio Lower Upper

95 100

97 0.0 44.3 82.3#

132 0.0 64.4 119.6#

130 0.0 69.4 128.8#



Abundance Ion 95.00 (94.70 to 95.70): VV009390.D (-1500) (-)

Ion 97.00 (96.70 to 97.70): VV009390.D (-1500) (-)

Ion 132.00 (131.70 to 132.70): VV009390.D (-1500) (-)

Ion 130.00 (129.70 to 130.70): VV009390.D (-1500) (-)

5.67

4000

3000

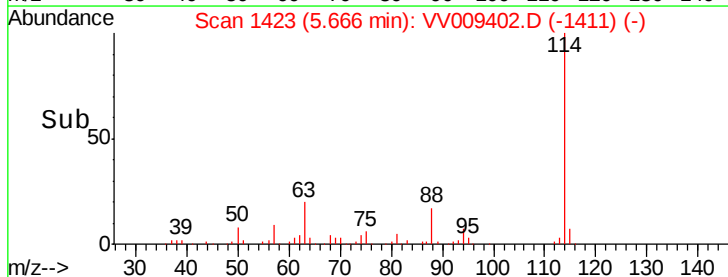
2000

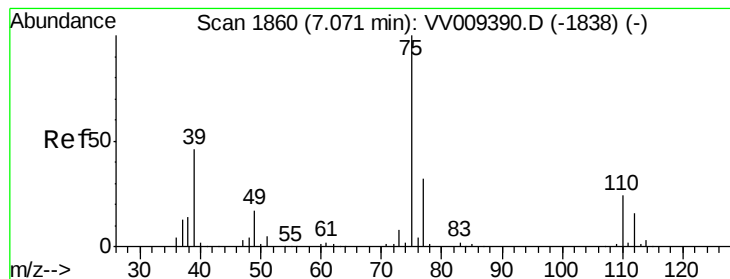
1000

0

5.60 5.65 5.70

Time-->



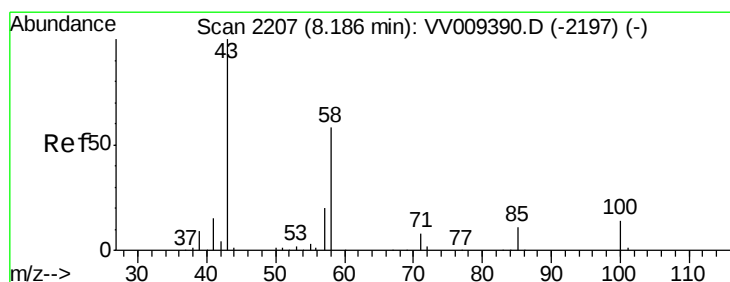
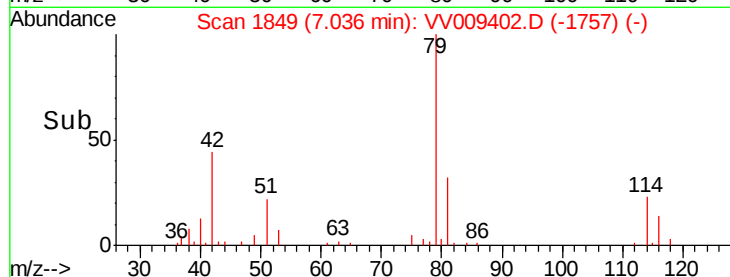
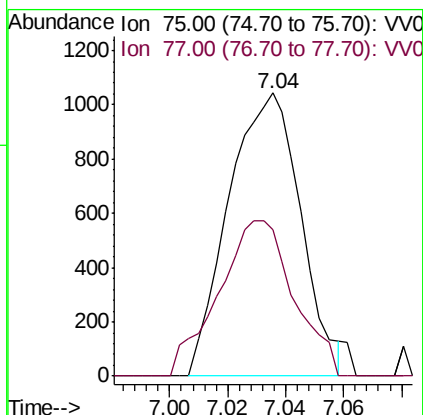
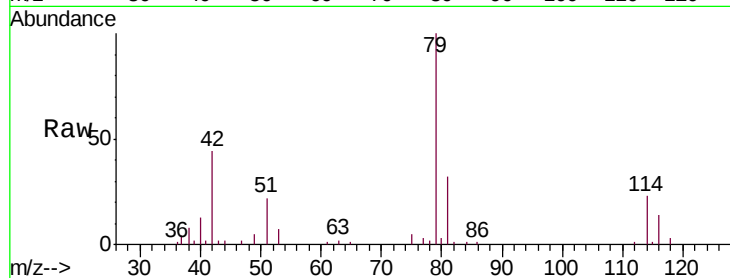


#42

cis-1,3-Dichloropropene  
Concen: 0.575 ug/L  
RT: 7.04 min Scan# 1849  
Delta R.T. -0.04 min  
Lab File: VV009402.D  
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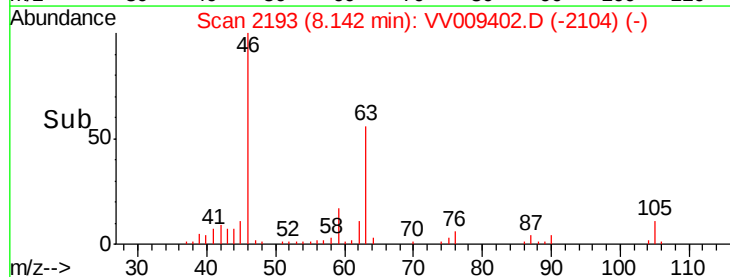
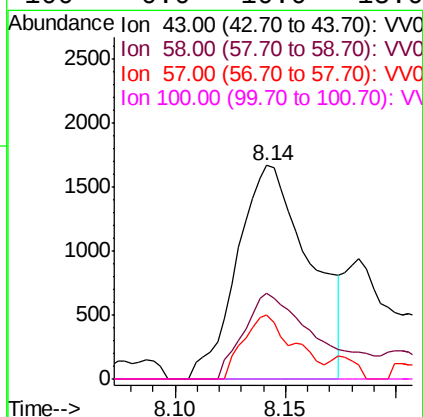
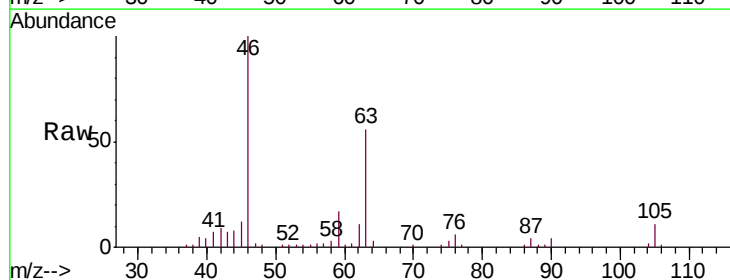
Tgt Ion: 75 Resp: 1800  
Ion Ratio Lower Upper  
75 100  
77 51.7 21.4 39.8#

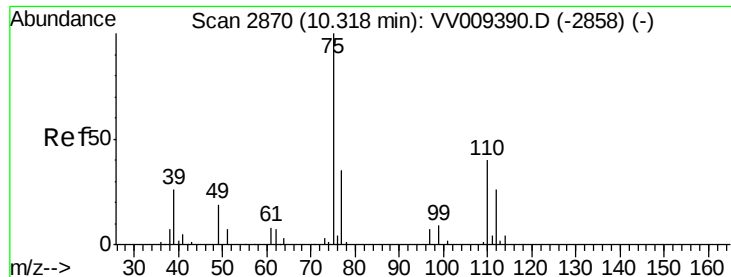


#49

2-Hexanone  
Concen: 3.239 ug/L  
RT: 8.14 min Scan# 2193  
Delta R.T. -0.04 min  
Lab File: VV009402.D  
Acq: 27 Feb 2019 16:58

Tgt Ion: 43 Resp: 3810  
Ion Ratio Lower Upper  
43 100  
58 40.7 46.3 69.5#  
57 16.0 15.8 23.6  
100 0.0 10.0 15.0#





#59

1,2,3-Trichloropropane

Concen: 5.162 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.98 min

Lab File: VV009402.D

Acq: 27 Feb 2019 16:58

Instrument :

MSVOA\_V

ClientSampleId :

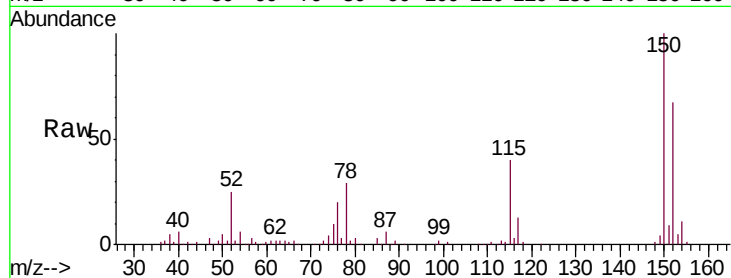
BF668

Tgt Ion: 75 Resp: 8136

Ion Ratio Lower Upper

75 100

77 34.5 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

