

Data File : VW006943.D  
Acq On : 19 Nov 2018 14:13  
Operator : SY/AP  
Sample : J5979-06  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
ETO67

Quant Time: Nov 20 06:22:02 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111418S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Nov 20 06:18:45 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 151877   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 124160   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 40898    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 33870    | 25.12    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 100.48% |
| 7) Chloroethane-d5             | 2.89   | 69    | 26385    | 26.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 107.72% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 67528    | 18.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 75.00%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 16814    | 22.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 45.26%  |
| 24) Chloroform-d               | 7.65   | 84    | 85117    | 25.32    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 101.28% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 54168    | 28.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 114.16% |
| 29) Benzene-d6                 | 8.27   | 84    | 177224   | 27.31    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 109.24% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 55496    | 27.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 111.72% |
| 37) Toluene-d8                 | 10.32  | 98    | 166809   | 25.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 100.36% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 17522    | 20.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 82.12%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 15134    | 30.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 61.14%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 41675    | 24.24    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 96.96%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 36928    | 23.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 95.36%  |

#### Target Compounds

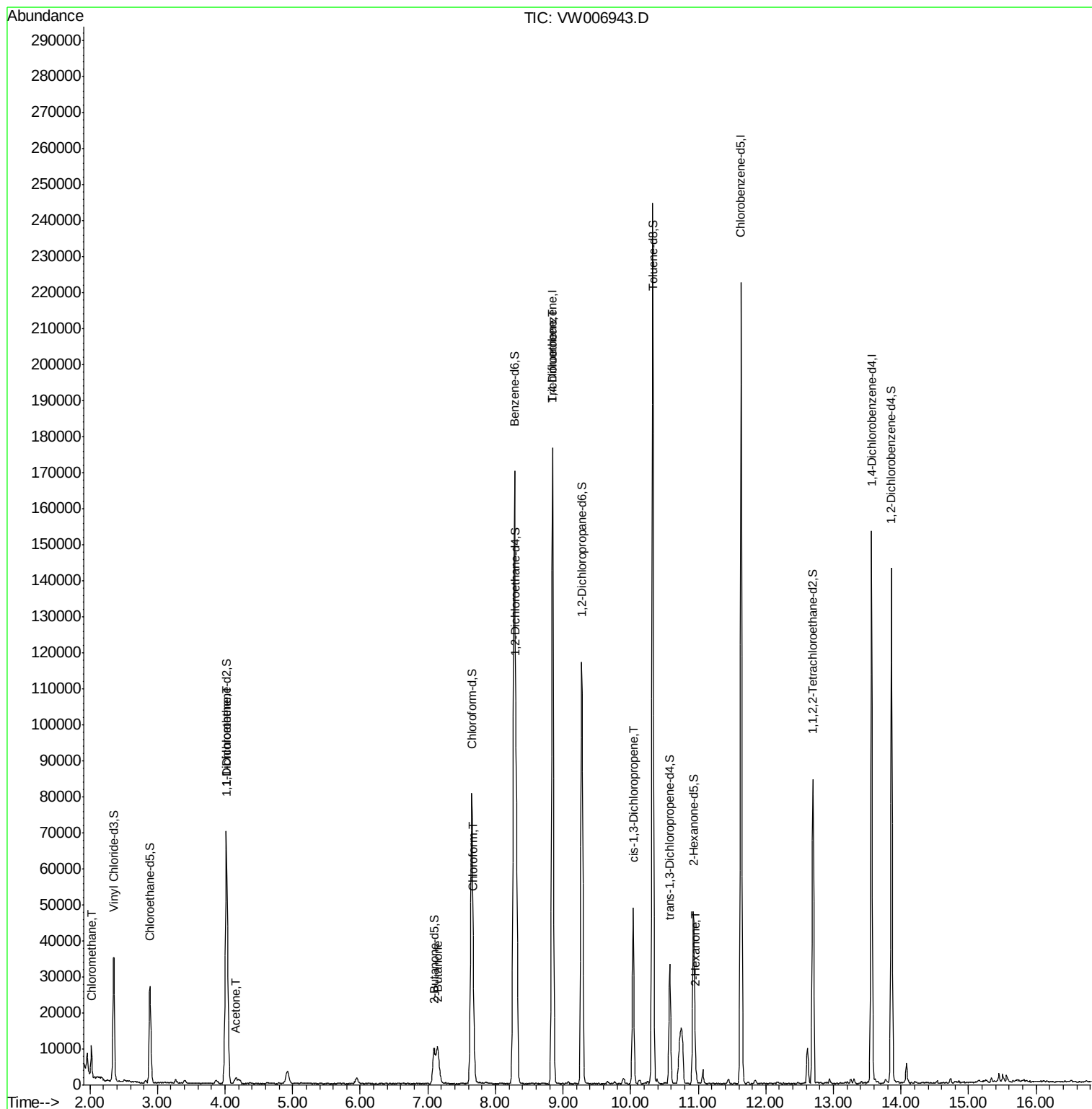
|                             |       |    |      |              | Qvalue |
|-----------------------------|-------|----|------|--------------|--------|
| 3) Chloromethane            | 2.02  | 50 | 534  | 0.323 ug/L # | 75     |
| 12) 1,1-Dichloroethene      | 4.03  | 96 | 541  | 0.312 ug/L # | 1      |
| 13) Acetone                 | 4.15  | 43 | 1344 | 2.807 ug/L   | 67     |
| 21) 2-Butanone              | 7.15  | 43 | 5773 | 6.989 ug/L # | 51     |
| 25) Chloroform              | 7.68  | 83 | 5786 | 1.548 ug/L   | 82     |
| 35) Trichloroethene         | 8.84  | 95 | 4757 | 2.515 ug/L # | 6      |
| 42) cis-1,3-Dichloropropene | 10.04 | 75 | 1205 | 0.467 ug/L   | 93     |
| 49) 2-Hexanone              | 10.96 | 43 | 5485 | 5.527 ug/L # | 39     |

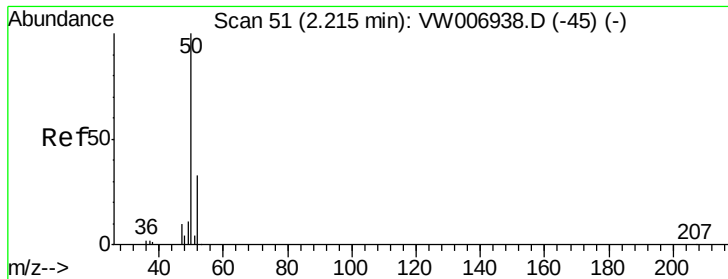
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.323 ug/L

RT: 2.02 min Scan# 19

Delta R.T. -0.20 min

Lab File: VW006943.D

Acq: 19 Nov 2018 14:13

Instrument :

MSVOA\_W

ClientSampled :

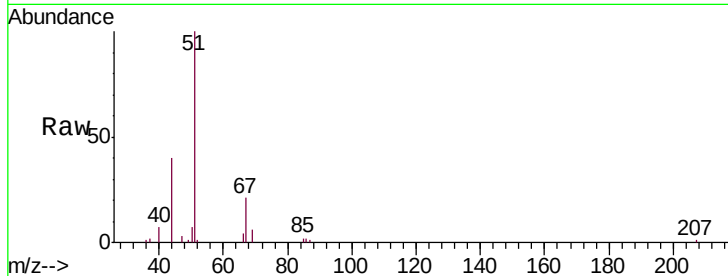
ETO67

Tgt Ion: 50 Resp: 534

Ion Ratio Lower Upper

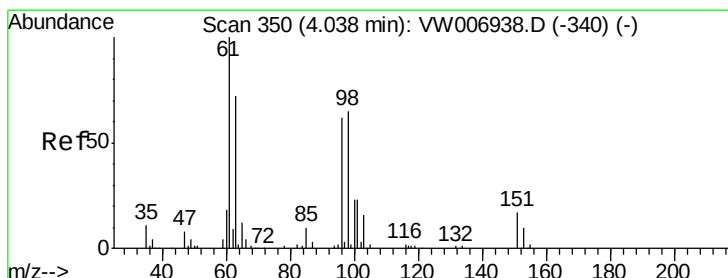
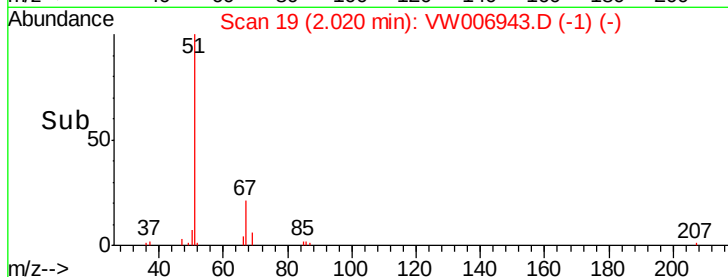
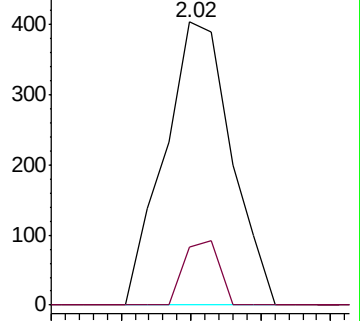
50 100

52 20.3 24.4 45.4#



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW



#12

1,1-Dichloroethene

Concen: 0.312 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW006943.D

Acq: 19 Nov 2018 14:13

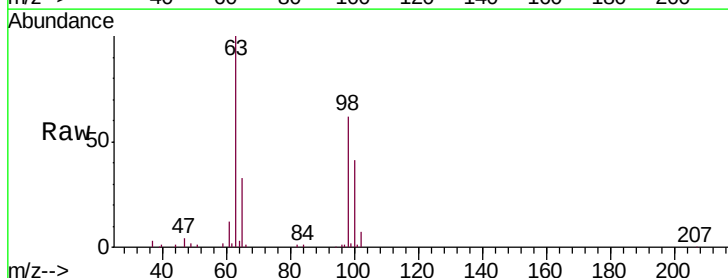
Tgt Ion: 96 Resp: 541

Ion Ratio Lower Upper

96 100

61 843.6 116.3 215.9#

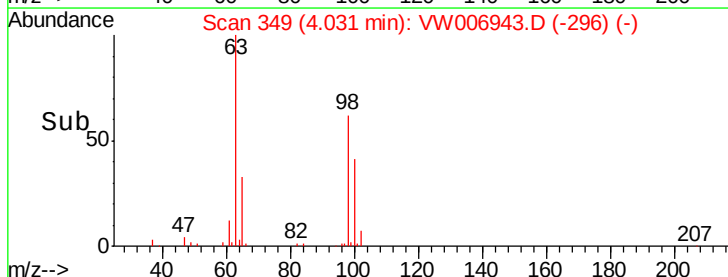
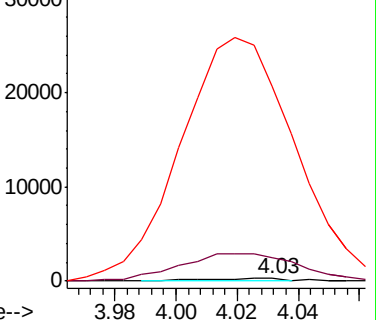
63 7186.2 73.4 136.4#

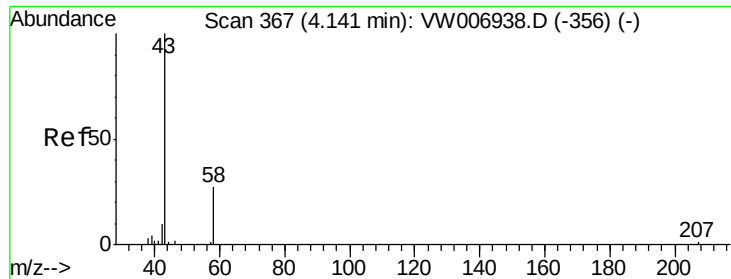


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 2.807 ug/L

RT: 4.15 min Scan# 369

Delta R.T. 0.01 min

Lab File: VW006943.D

Acq: 19 Nov 2018 14:13

Instrument :

MSVOA\_W

ClientSampled :

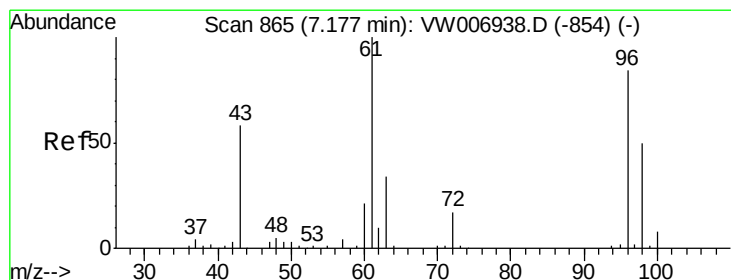
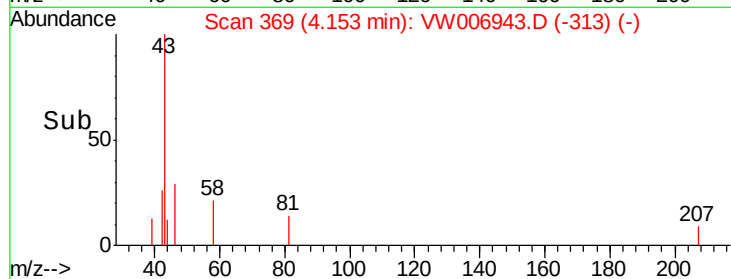
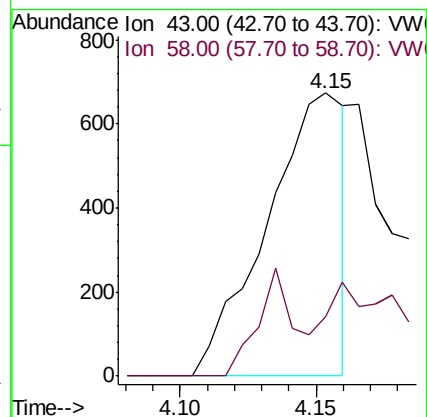
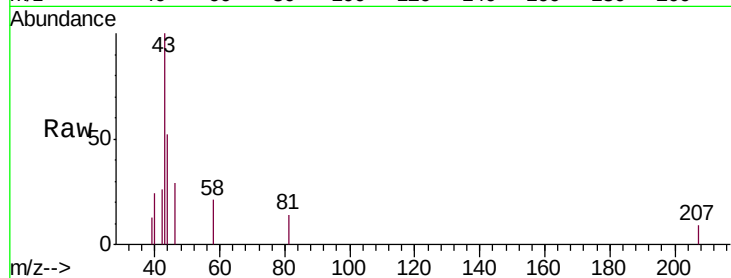
ETO67

Tgt Ion: 43 Resp: 1344

Ion Ratio Lower Upper

43 100

58 14.4 0.0 65.6



#21

2-Butanone

Concen: 6.989 ug/L

RT: 7.15 min Scan# 860

Delta R.T. -0.03 min

Lab File: VW006943.D

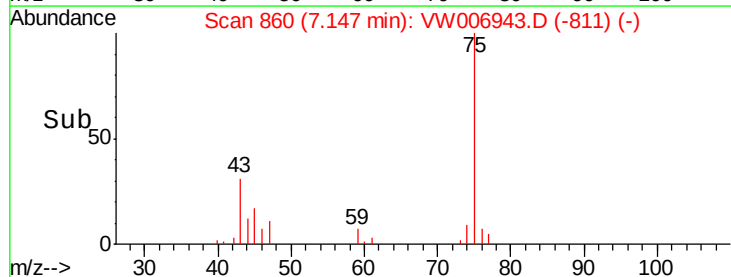
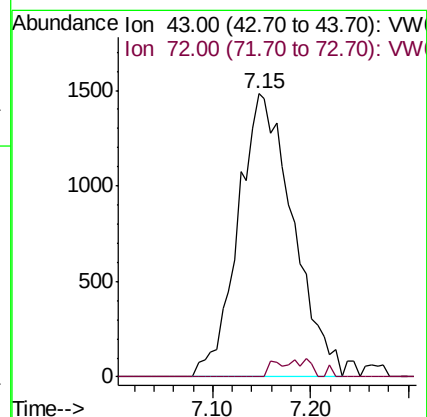
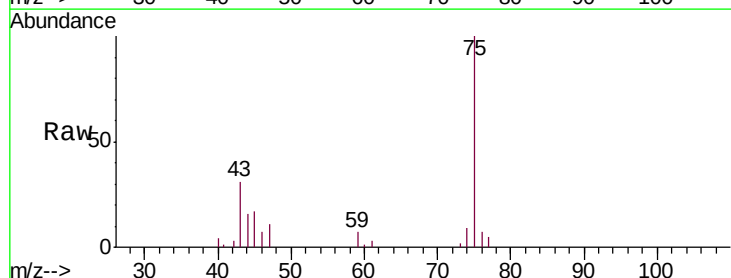
Acq: 19 Nov 2018 14:13

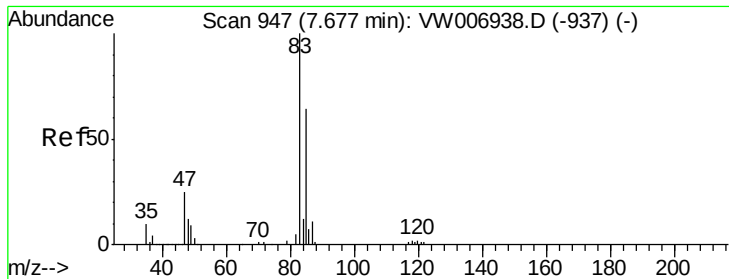
Tgt Ion: 43 Resp: 5773

Ion Ratio Lower Upper

43 100

72 1.4 13.5 40.5#

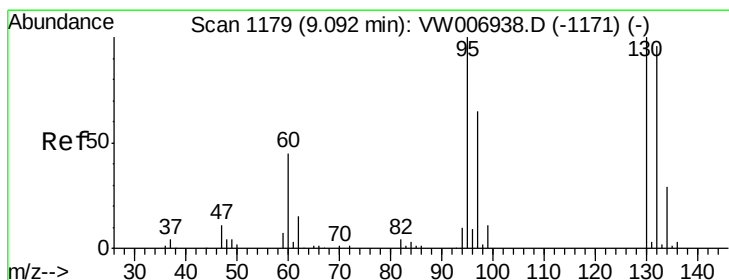
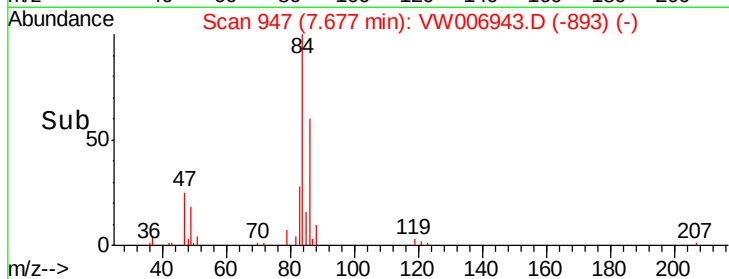
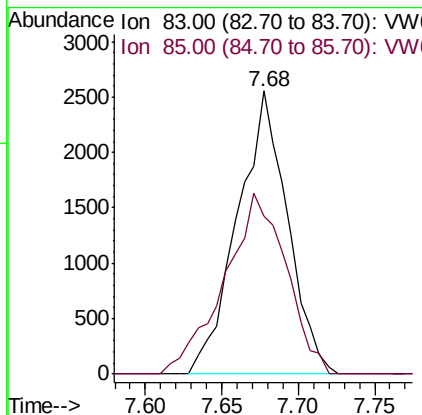
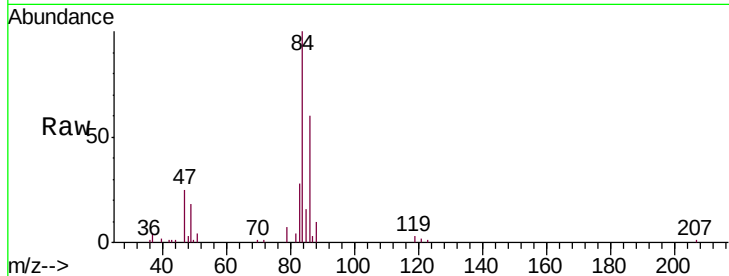




#25  
Chloroform  
Concen: 1.548 ug/L  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
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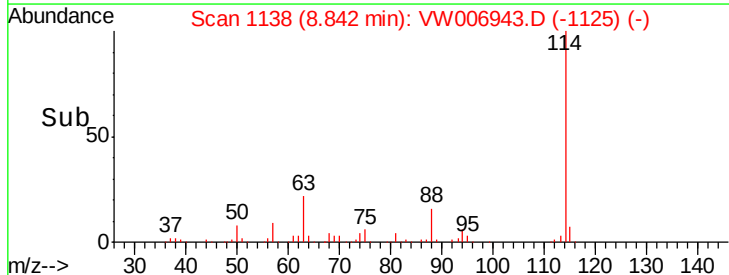
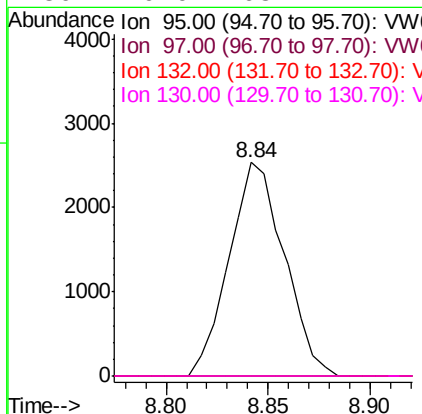
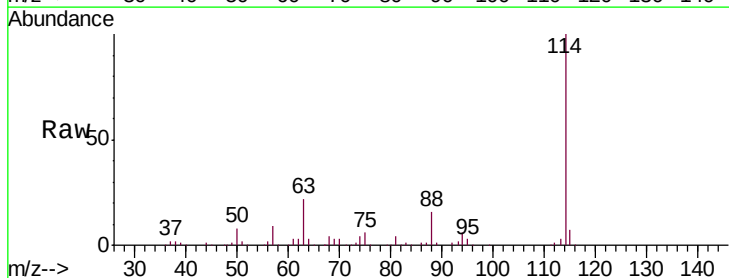
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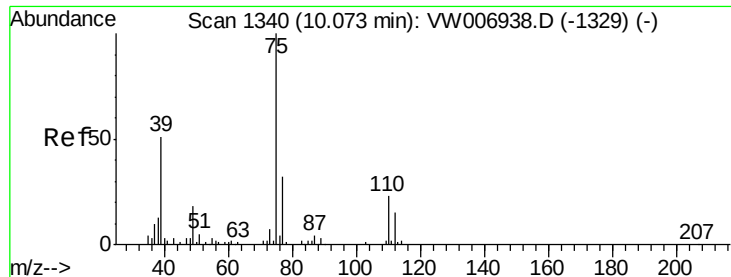
Tgt Ion: 83 Resp: 5786  
Ion Ratio Lower Upper  
83 100  
85 79.1 45.4 84.2



#35  
Trichloroethene  
Concen: 2.515 ug/L  
RT: 8.84 min Scan# 1138  
Delta R.T. -0.25 min  
Lab File: VW006943.D  
Acq: 19 Nov 2018 14:13

Tgt Ion: 95 Resp: 4757  
Ion Ratio Lower Upper  
95 100  
97 0.0 45.1 83.9#  
132 0.0 65.7 121.9#  
130 0.0 68.7 127.7#





#42

cis-1,3-Dichloropropene

Concen: 0.467 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW006943.D

Acq: 19 Nov 2018 14:13

Instrument :

MSVOA\_W

ClientSampleId :

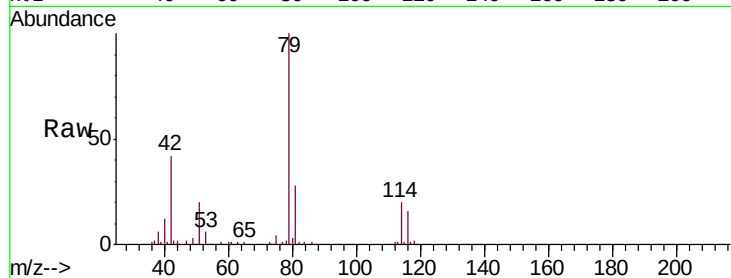
ETO67

Tgt Ion: 75 Resp: 1205

Ion Ratio Lower Upper

75 100

77 35.3 21.9 40.7



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.04

600

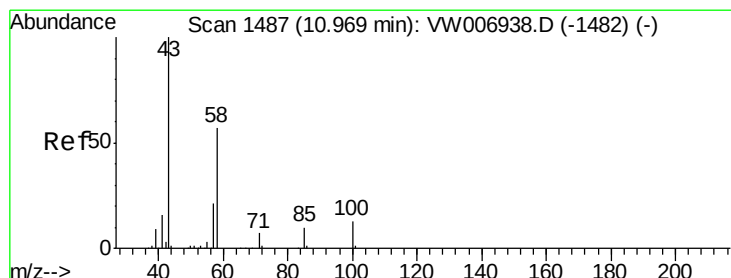
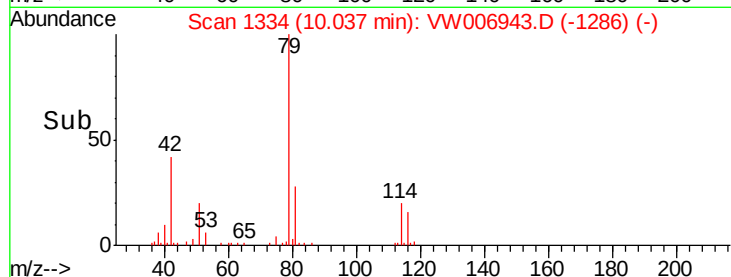
400

200

0

10.00 10.05

Time-->



#49

2-Hexanone

Concen: 5.527 ug/L

RT: 10.96 min Scan# 1485

Delta R.T. -0.01 min

Lab File: VW006943.D

Acq: 19 Nov 2018 14:13

Tgt Ion: 43 Resp: 5485

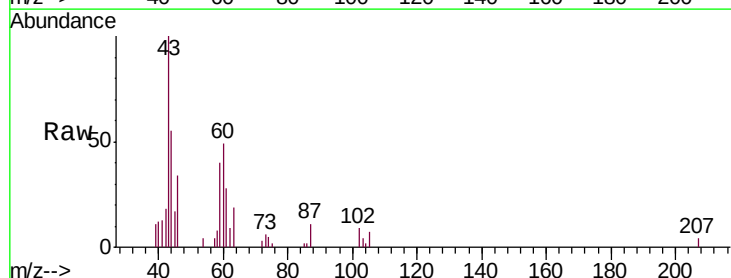
Ion Ratio Lower Upper

43 100

58 1.7 44.6 67.0#

57 0.0 16.0 24.0#

100 0.0 9.7 14.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.96

3000

2000

1000

0

10.85 10.90 10.95 11.00

Time-->

