

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092120\  
 Data File : VV018381.D  
 Acq On : 21 Sep 2020 19:23  
 Operator : SY/MD  
 Sample : L4092-03  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFX02

Quant Time: Sep 22 04:38:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Sep 22 04:28:24 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 254957   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 255912   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 121211   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 83714    | 40.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 80.58%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 74456    | 43.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 87.58%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 128053   | 33.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.20%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 110795   | 87.12    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 87.12%  |
| 24) Chloroform-d               | 4.38    | 84    | 167690   | 46.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.04%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 112988   | 48.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.78%  |
| 32) Benzene-d6                 | 5.08    | 84    | 335913   | 45.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.70%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 109910   | 47.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.44%  |
| 41) Toluene-d8                 | 7.34    | 98    | 297472   | 44.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.10%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 51807    | 43.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.60%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 67939    | 77.05    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 77.05%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 121409   | 41.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 83.12%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 127481   | 51.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.42% |

## Target Compounds

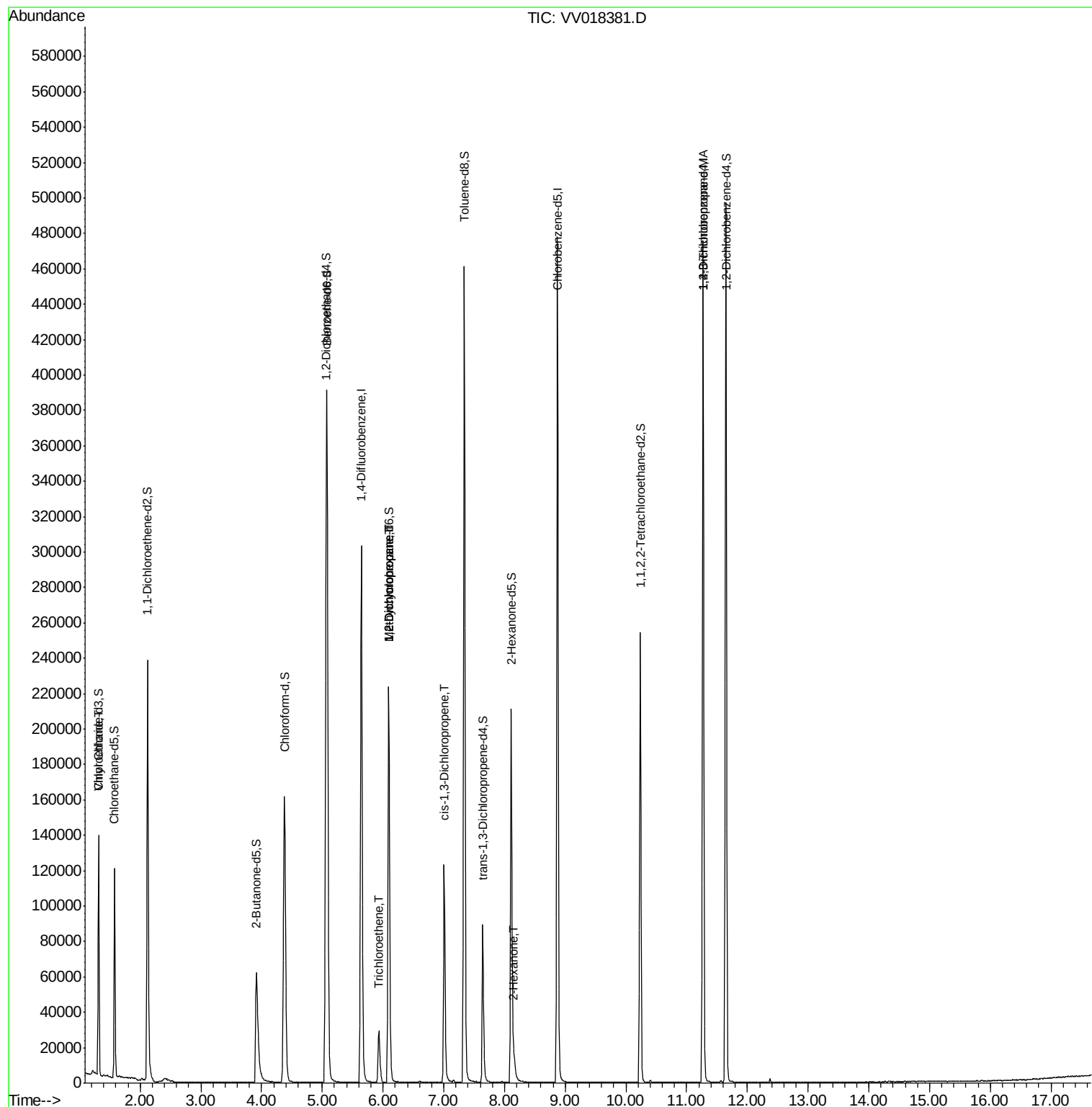
|                             |       |    |       |              | Ovalue |
|-----------------------------|-------|----|-------|--------------|--------|
| 8) Chloroethane             | 1.32  | 64 | 1202  | 0.922 ug/L # | 1      |
| 34) Trichloroethene         | 5.95  | 95 | 3068  | 1.539 ug/L   | 99     |
| 35) Methylcyclohexane       | 6.09  | 83 | 26637 | 8.876 ug/L # | 17     |
| 37) 1,2-Dichloropropane     | 6.10  | 63 | 11607 | 5.986 ug/L # | 87     |
| 39) cis-1,3-Dichloropropene | 7.01  | 75 | 3067  | 1.027 ug/L # | 74     |
| 48) 2-Hexanone              | 8.16  | 43 | 6542  | 3.528 ug/L # | 82     |
| 59) 1,2,3-Trichloropropane  | 11.27 | 75 | 13481 | 5.912 ug/L # | 88     |

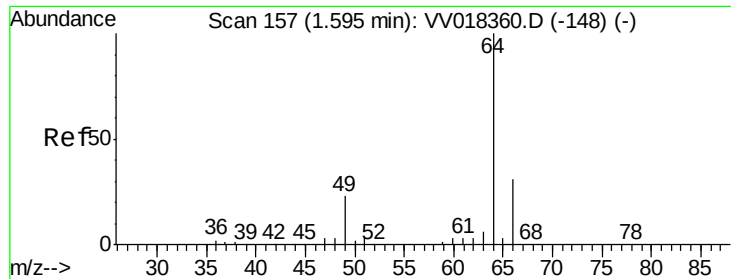
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 25 Sample Multiplier: 1

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Quant Title : VOC Analysis  
QLast Update : Tue Sep 22 04:28:24 2020  
Response via : Initial Calibration

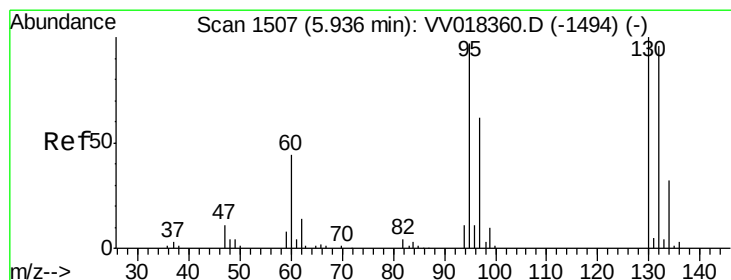
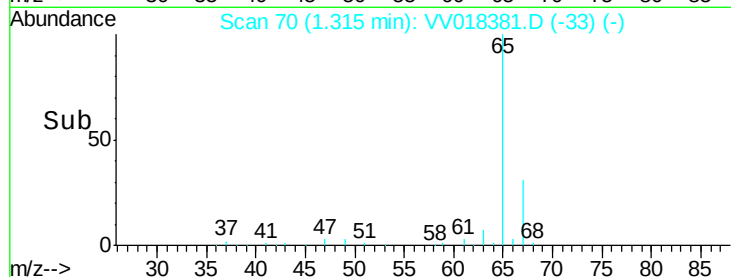
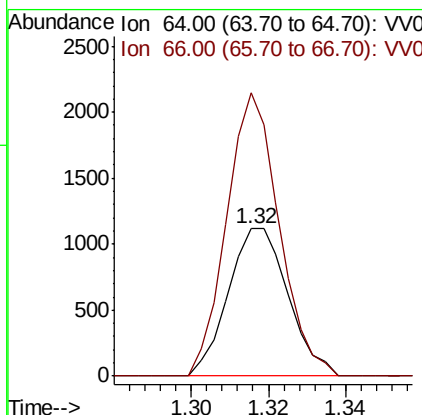
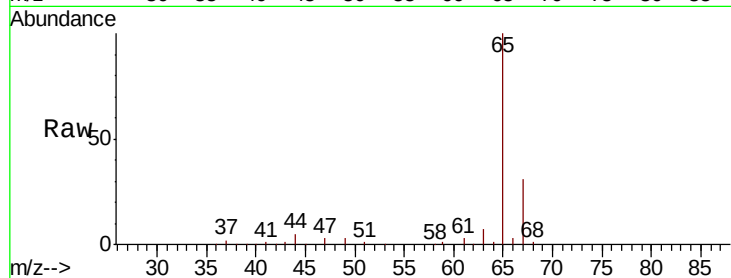




#8  
 Chloroethane  
 Concen: 0.922 ug/L  
 RT: 1.32 min Scan# 70  
 Delta R.T. -0.28 min  
 Lab File: VV018381.D  
 Acq: 21 Sep 2020 19:23

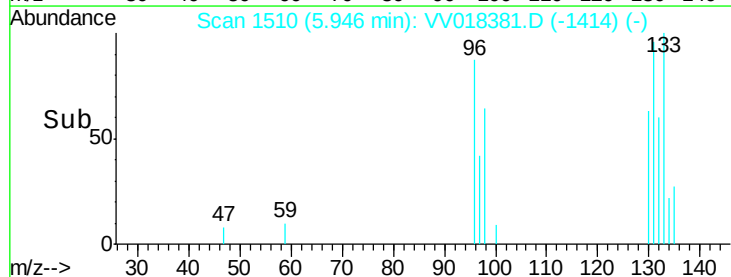
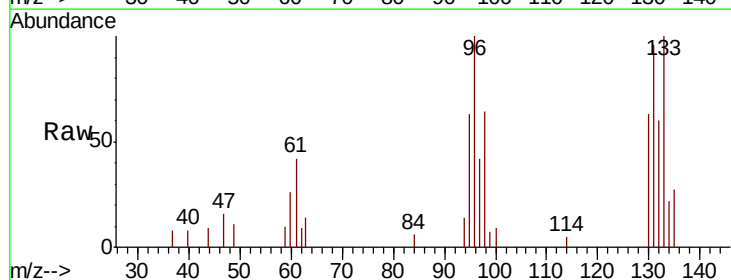
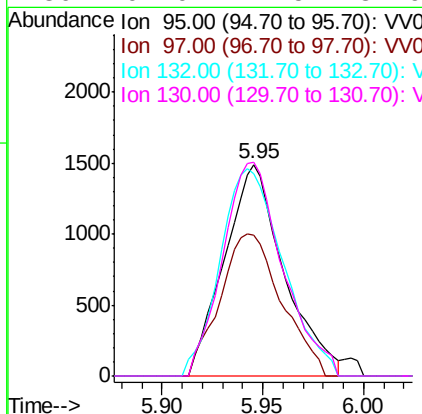
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFX02

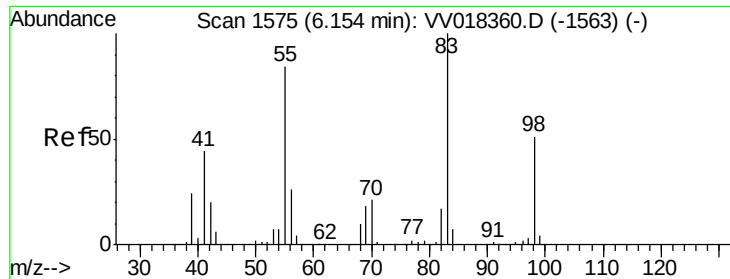
Tot Ion: 64 Resp: 1202  
 Ion Ratio Lower Upper  
 64 100  
 66 191.9 22.5 41.7#



#34  
 Trichloroethene  
 Concen: 1.539 ug/L  
 RT: 5.95 min Scan# 1510  
 Delta R.T. 0.01 min  
 Lab File: VV018381.D  
 Acq: 21 Sep 2020 19:23

Tgt Ion: 95 Resp: 3068  
 Ion Ratio Lower Upper  
 95 100  
 97 66.8 46.3 85.9  
 132 95.7 68.1 126.5  
 130 101.0 71.5 132.9

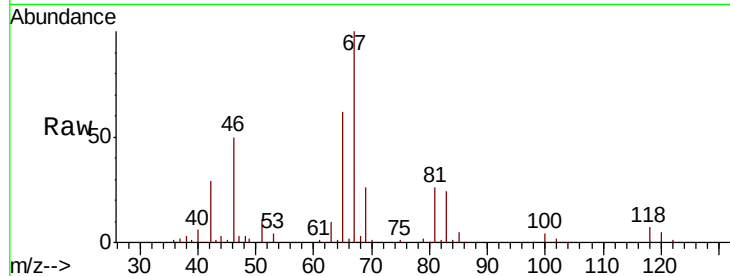




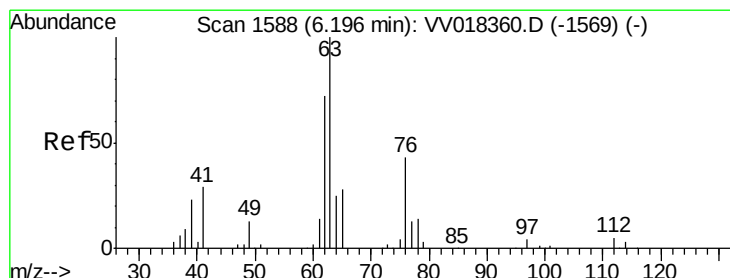
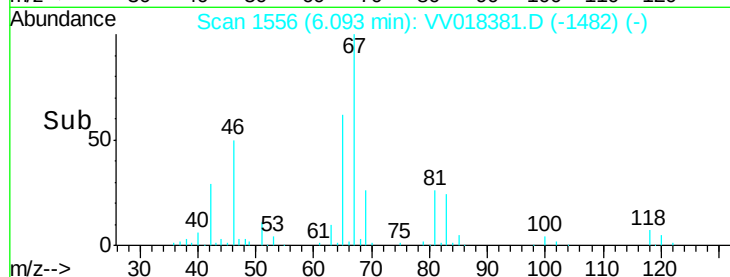
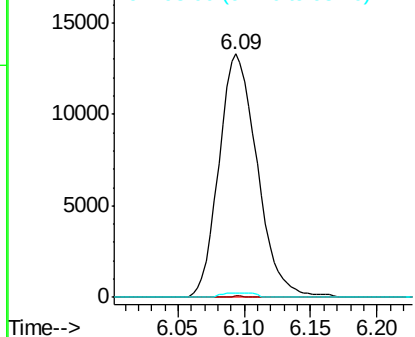
#35  
Methylvlcyclohexane  
Concen: 8.876 ug/L  
RT: 6.09 min Scan# 1556  
Delta R.T. -0.06 min  
Lab File: VV018381.D  
Acq: 21 Sep 2020 19:23

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFX02

Tot Ion: 83 Resp: 26637  
Ion Ratio Lower Upper  
83 100  
55 0.2 63.4 95.2#  
98 0.9 38.8 58.2#

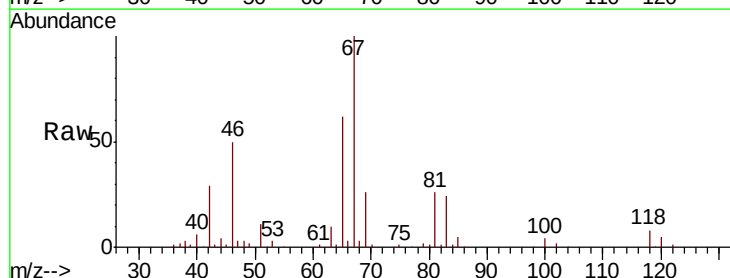


Abundance Ion 83.00 (82.70 to 83.70): VV0  
Ion 55.00 (54.70 to 55.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0

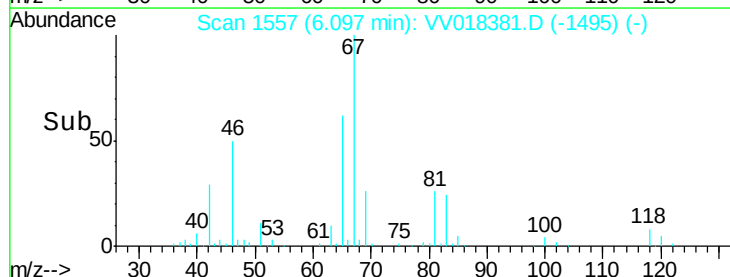
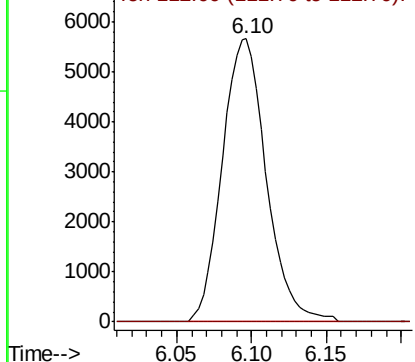


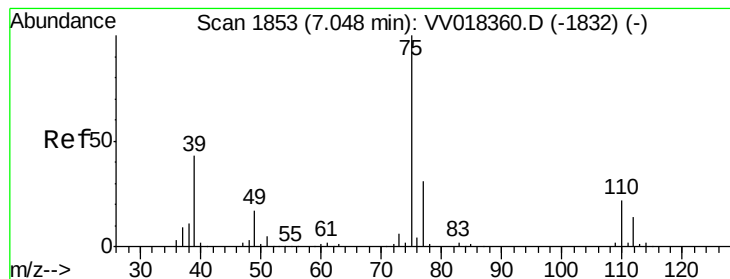
#37  
1,2-Dichloropropane  
Concen: 5.986 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.10 min  
Lab File: VV018381.D  
Acq: 21 Sep 2020 19:23

Tgt Ion: 63 Resp: 11607  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.4 5.2#



Abundance Ion 63.00 (62.70 to 63.70): VV0  
Ion 112.00 (111.70 to 112.70): V





#39

cis-1,3-Dichloropropene

Concen: 1.027 ug/L

RT: 7.01 min Scan# 1840

Delta R.T. -0.04 min

Lab File: VV018381.D

Acq: 21 Sep 2020 19:23

Instrument :

MSVOA\_V

ClientSampleId :

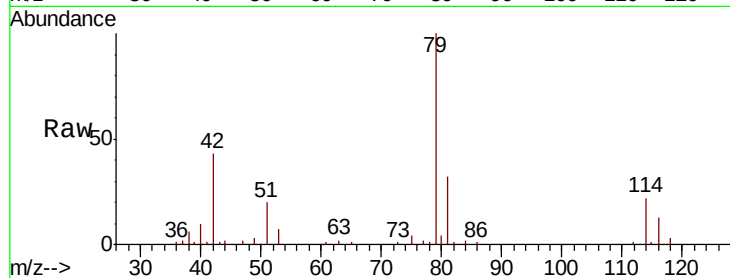
BFX02

Tot Ion: 75 Resp: 3067

Ion Ratio Lower Upper

75 100

77 46.5 22.3 41.3#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.01

1500

1000

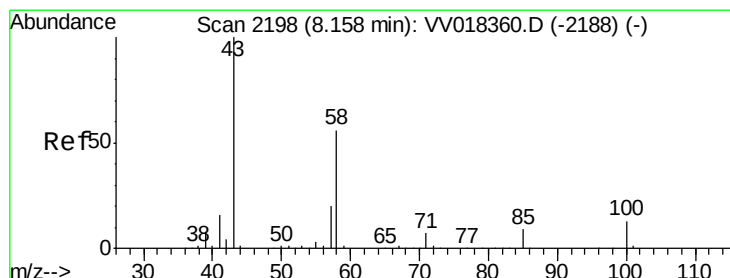
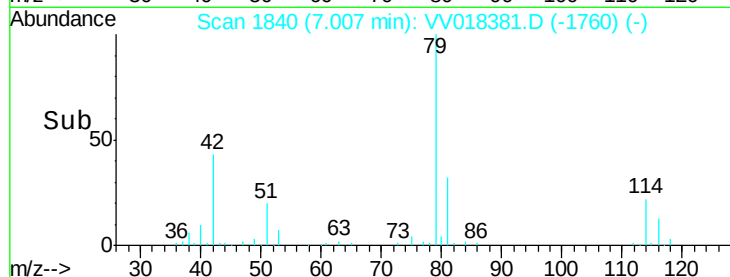
500

0

Time-->

7.00

7.05



#48

2-Hexanone

Concen: 3.528 ug/L

RT: 8.16 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VV018381.D

Acq: 21 Sep 2020 19:23

Tgt Ion: 43 Resp: 6542

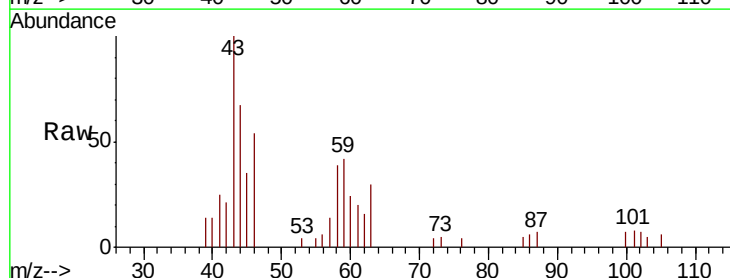
Ion Ratio Lower Upper

43 100

58 44.1 44.8 67.2#

57 10.7 15.8 23.6#

100 2.8 10.2 15.4#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0

8000

6000

4000

2000

0

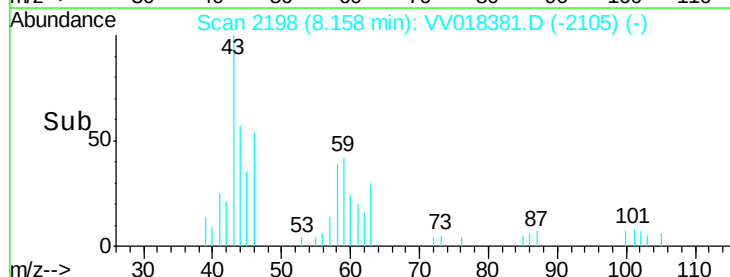
Time-->

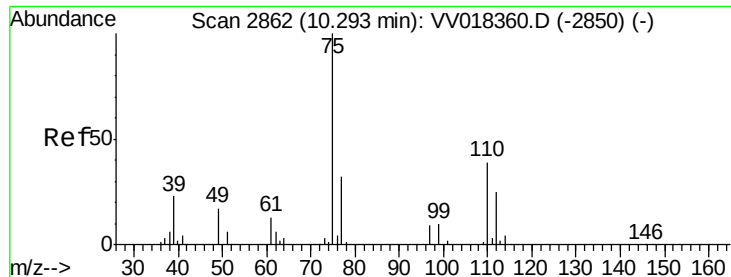
8.10

8.15

8.20

8.25





#59

1,2,3-Trichloropropane

Concen: 5.912 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.98 min

Lab File: VV018381.D

Acq: 21 Sep 2020 19:23

Instrument :

MSVOA\_V

ClientSampleId :

BFX02

Tot Ion: 75 Resp: 13481

Ion Ratio Lower Upper

75 100

77 38.8 25.8 38.6#

