

Data File : VU033323.D  
Acq On : 18 Jul 2019 16:44  
Operator : JC/SP  
Sample : K3828-04  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VHBLK01

Quant Time: Jul 19 01:49:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jul 19 01:43:14 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 368249   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 357480   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 178276   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |                |     |            |         |      |      |
|--------------------------------|----------------|-----|------------|---------|------|------|
| 4) Vinyl Chloride-d3           | 1.39           | 65  | 145093     | 52.05   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 60 - 135 |     | Recovery = | 104.10% |      |      |
| 7) Chloroethane-d5             | 1.67           | 69  | 123031     | 51.66   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 130 |     | Recovery = | 103.32% |      |      |
| 11) 1,1-Dichloroethene-d2      | 2.26           | 63  | 208124     | 41.16   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 60 - 125 |     | Recovery = | 82.32%  |      |      |
| 21) 2-Butanone-d5              | 4.15           | 46  | 190799     | 108.02  | ug/L | 0.00 |
| Spiked Amount 100.000          | Range 40 - 130 |     | Recovery = | 108.02% |      |      |
| 24) Chloroform-d               | 4.62           | 84  | 227661     | 48.73   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 97.46%  |      |      |
| 26) 1,2-Dichloroethane-d4      | 5.29           | 65  | 146922     | 49.03   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 98.06%  |      |      |
| 32) Benzene-d6                 | 5.32           | 84  | 479443     | 54.67   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 109.34% |      |      |
| 36) 1,2-Dichloropropane-d6     | 6.31           | 67  | 149538     | 53.23   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 120 |     | Recovery = | 106.46% |      |      |
| 41) Toluene-d8                 | 7.55           | 98  | 440241     | 53.23   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 80 - 120 |     | Recovery = | 106.46% |      |      |
| 43) trans-1,3-Dichloropropene- | 7.83           | 79  | 70919      | 51.48   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 60 - 125 |     | Recovery = | 102.96% |      |      |
| 47) 2-Hexanone-d5              | 8.29           | 63  | 141118     | 111.43  | ug/L | 0.00 |
| Spiked Amount 100.000          | Range 45 - 130 |     | Recovery = | 111.43% |      |      |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41          | 84  | 212374     | 49.95   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 65 - 120 |     | Recovery = | 99.90%  |      |      |
| 64) 1,2-Dichlorobenzene-d4     | 11.84          | 152 | 171454     | 53.93   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 80 - 120 |     | Recovery = | 107.86% |      |      |

#### Target Compounds

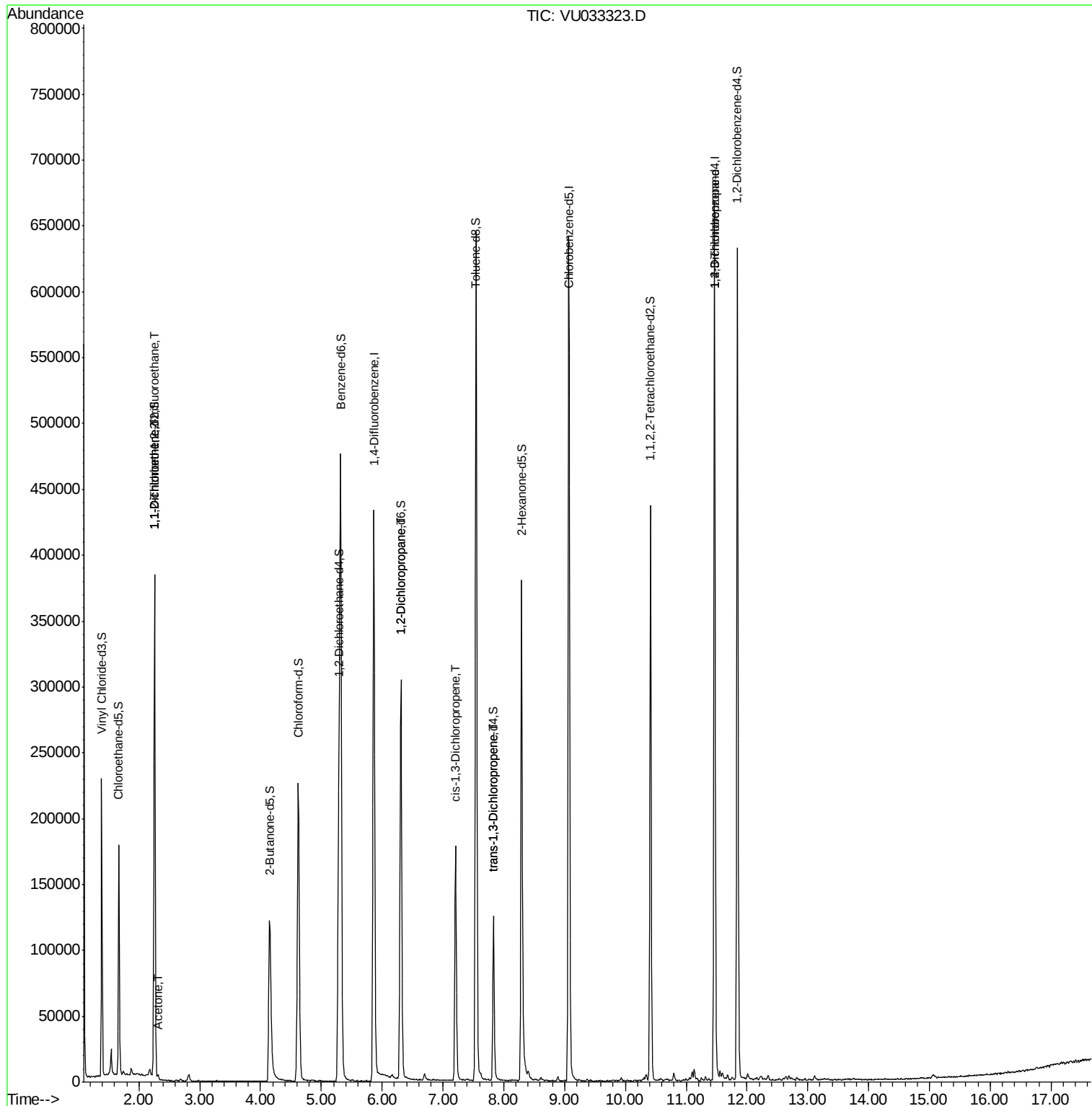
|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.25  | 101 | 1972  | 0.785 ug/L # | 21     |
| 12) 1,1-Dichloroethene         | 2.26  | 96  | 1792  | 0.729 ug/L # | 1      |
| 13) Acetone                    | 2.31  | 43  | 1113  | 0.504 ug/L   | 84     |
| 37) 1,2-Dichloropropane        | 6.31  | 63  | 16196 | 5.729 ug/L # | 88     |
| 39) cis-1,3-Dichloropropene    | 7.21  | 75  | 4191  | 0.967 ug/L # | 66     |
| 44) trans-1,3-Dichloropropene  | 7.83  | 75  | 3177  | 0.813 ug/L # | 82     |
| 59) 1,2,3-Trichloropropane     | 11.47 | 75  | 19855 | 5.394 ug/L # | 87     |

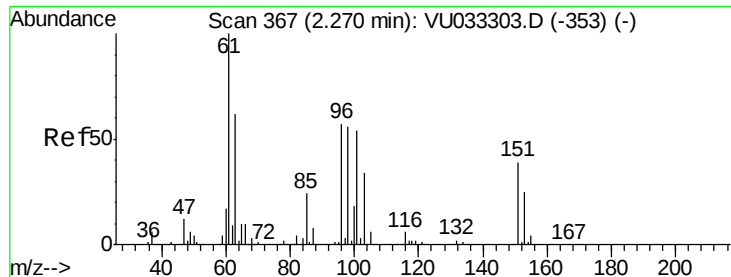
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU033323.D  
Acq On : 18 Jul 2019 16:44  
Operator : JC/SP  
Sample : K3828-04  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VHBLK01

Quant Time: Jul 19 01:49:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jul 19 01:43:14 2019  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.785 ug/L

RT: 2.25 min Scan# 362

Delta R.T. -0.02 min

Lab File: VU033323.D

Acq: 18 Jul 2019 16:44

Instrument :

MSVOA\_U

ClientSampleId :

VHBLK01

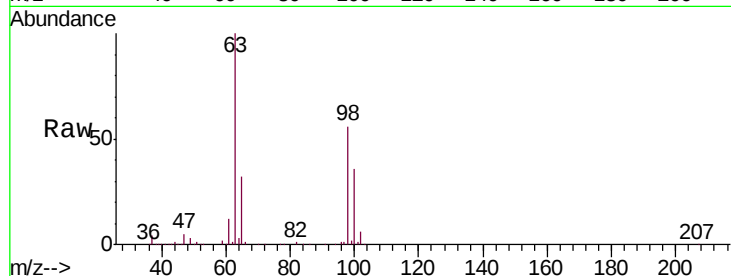
Tgt Ion: 101 Resp: 1972

Ion Ratio Lower Upper

101 100

85 0.0 35.8 53.8#

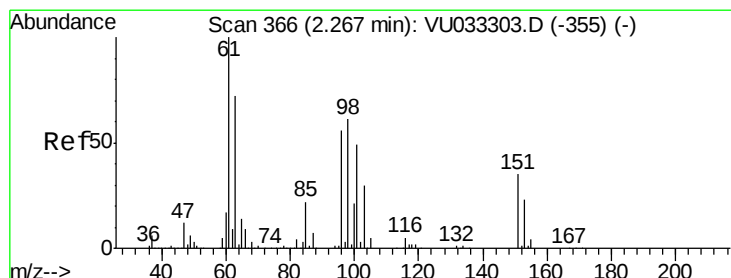
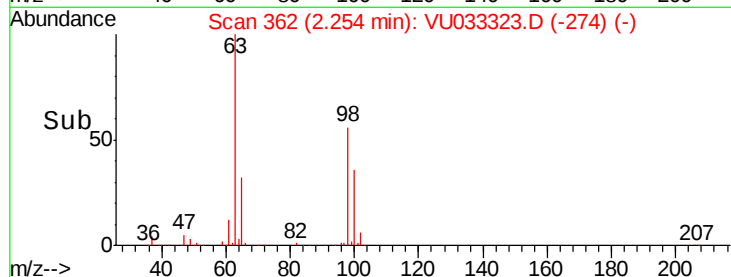
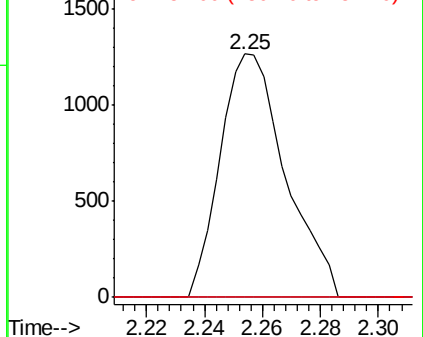
151 0.0 56.7 85.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.729 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU033323.D

Acq: 18 Jul 2019 16:44

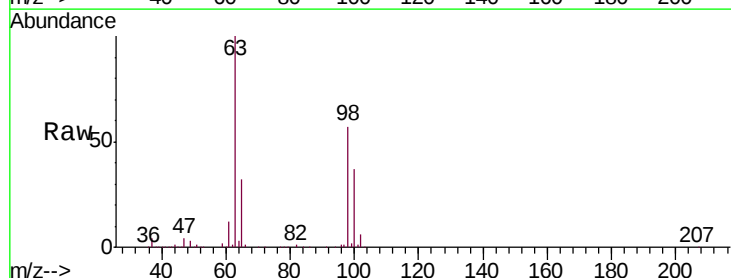
Tgt Ion: 96 Resp: 1792

Ion Ratio Lower Upper

96 100

61 1349.8 126.1 234.1#

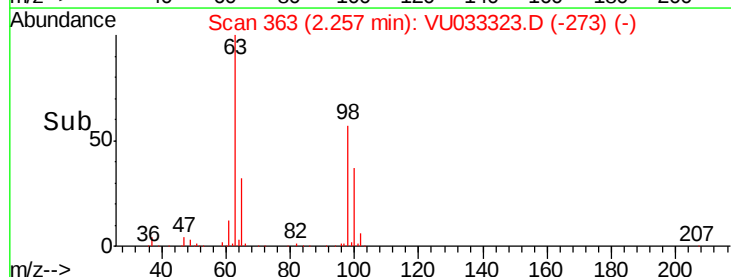
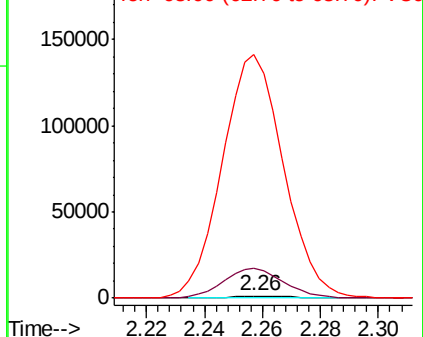
63 11210.2 96.8 179.8#

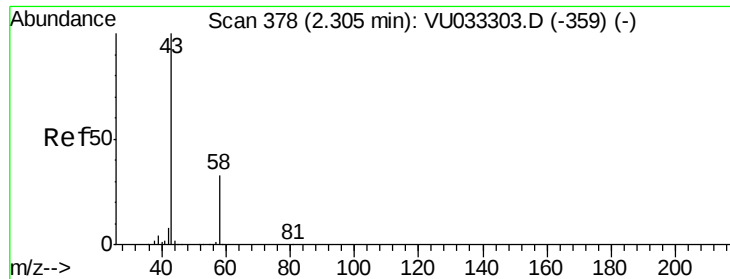


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.504 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU033323.D

Acq: 18 Jul 2019 16:44

Instrument :

MSVOA\_U

ClientSampleId :

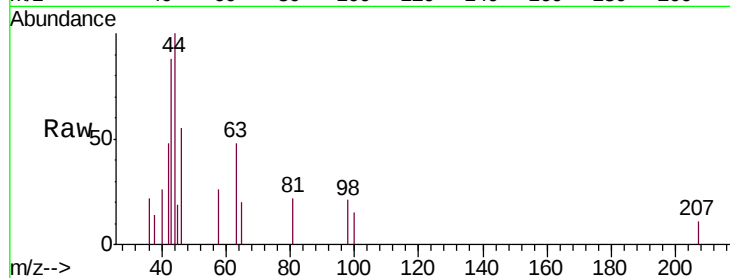
VHBLK01

Tgt Ion: 43 Resp: 1113

Ion Ratio Lower Upper

43 100

58 23.7 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.31

800

600

400

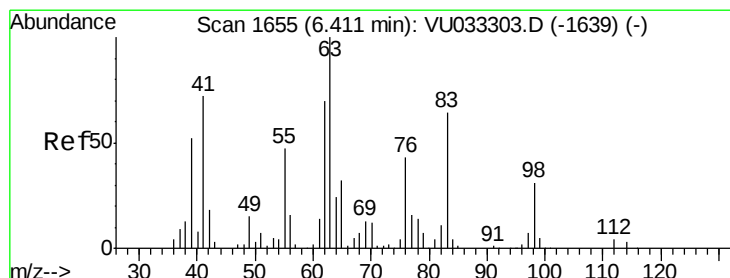
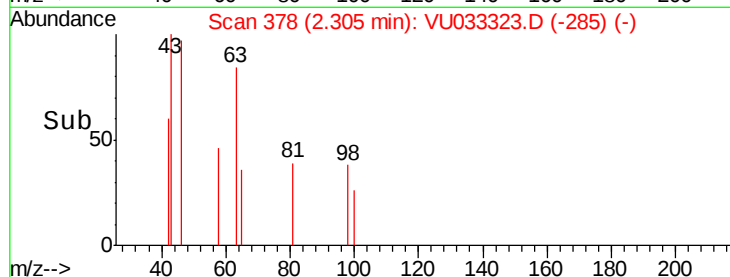
200

0

2.30

2.35

Time-->



#37

1,2-Dichloropropane

Concen: 5.729 ug/L

RT: 6.31 min Scan# 1623

Delta R.T. -0.10 min

Lab File: VU033323.D

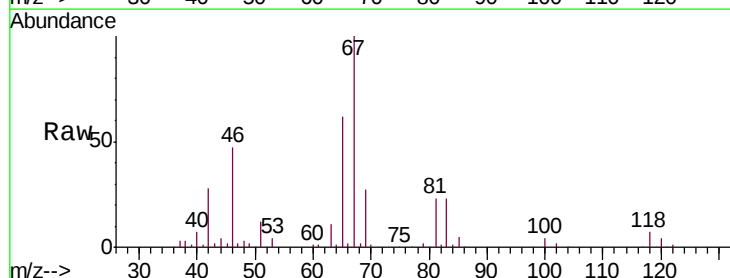
Acq: 18 Jul 2019 16:44

Tgt Ion: 63 Resp: 16196

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V

6.31

8000

6000

4000

2000

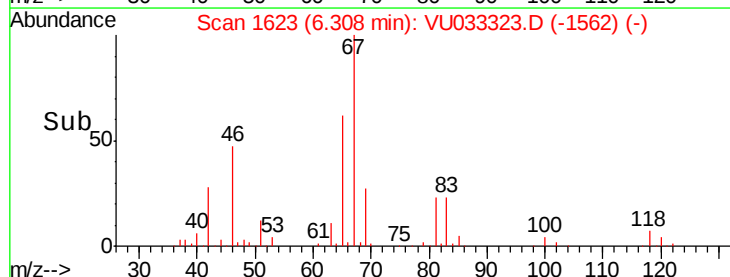
0

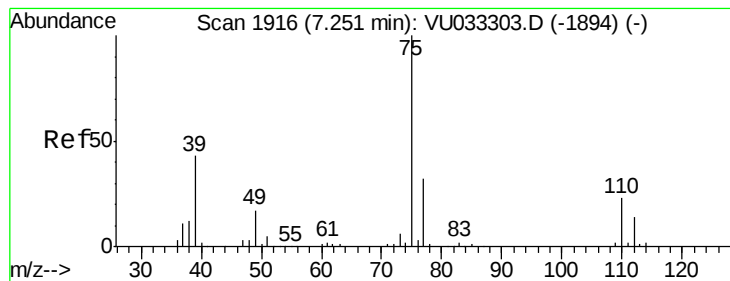
6.25

6.30

6.35

Time-->



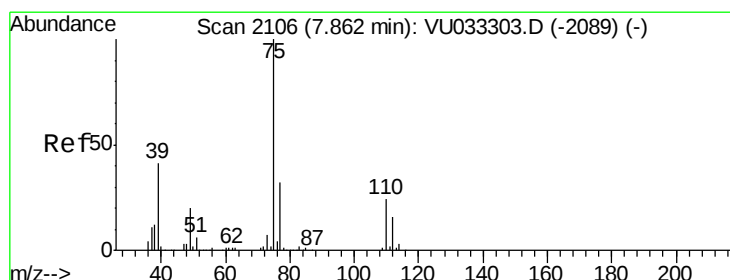
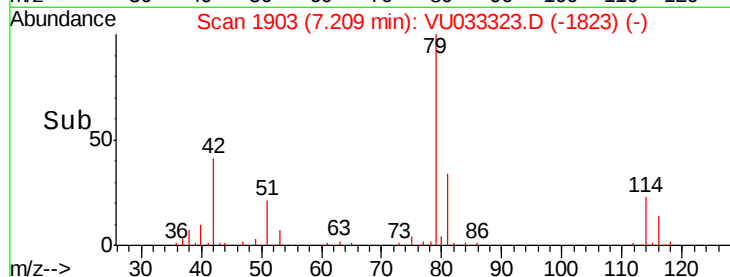
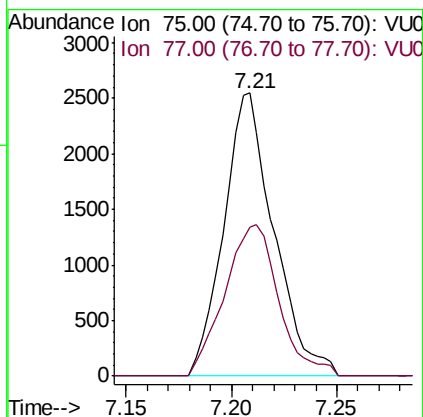
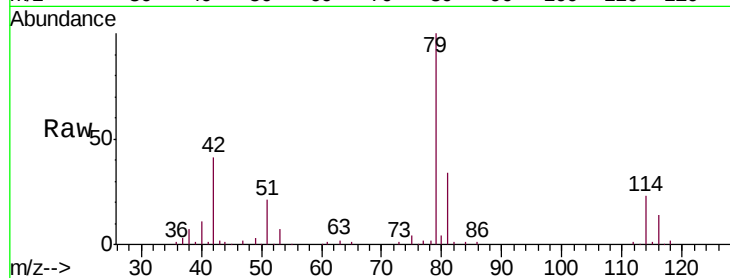


#39

cis-1,3-Dichloropropene  
Concen: 0.967 ug/L  
RT: 7.21 min Scan# 1903  
Delta R.T. -0.04 min  
Lab File: VU033323.D  
Acq: 18 Jul 2019 16:44

Instrument :  
MSVOA\_U  
ClientSampleId :  
VHBLK01

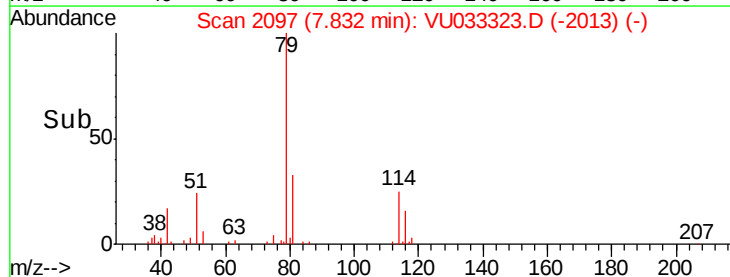
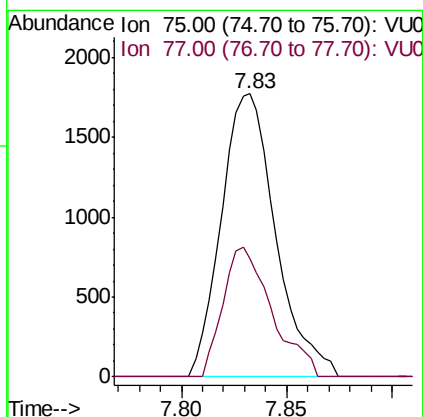
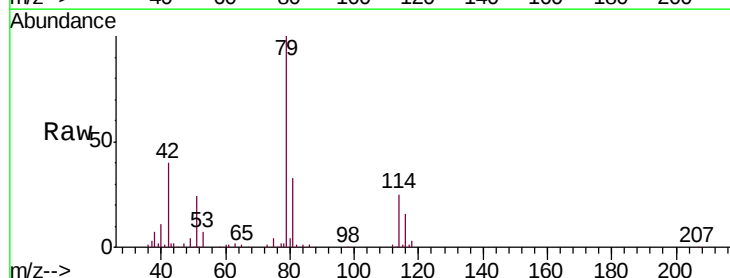
Tgt Ion: 75 Resp: 4191  
Ion Ratio Lower Upper  
75 100  
77 52.4 23.1 42.9#

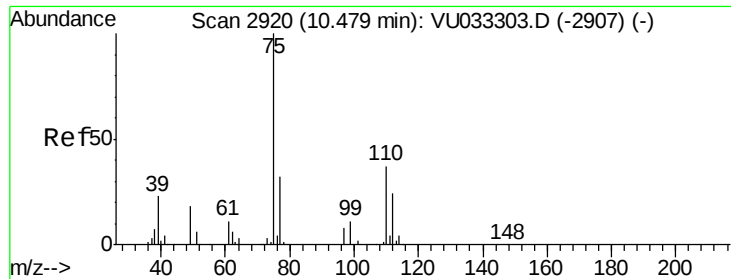


#44

trans-1,3-Dichloropropene  
Concen: 0.813 ug/L  
RT: 7.83 min Scan# 2097  
Delta R.T. -0.03 min  
Lab File: VU033323.D  
Acq: 18 Jul 2019 16:44

Tgt Ion: 75 Resp: 3177  
Ion Ratio Lower Upper  
75 100  
77 41.9 22.4 41.6#





#59

1,2,3-Trichloropropane

Concen: 5.394 ug/L

RT: 11.47 min Scan# 3227

Delta R.T. 0.99 min

Lab File: VU033323.D

Acq: 18 Jul 2019 16:44

Instrument :

MSVOA\_U

ClientSampleId :

VHBLK01

Tgt Ion: 75 Resp: 19855

Ion Ratio Lower Upper

75 100

77 39.9 26.0 39.0#

