

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102119\  
 Data File : VU035324.D  
 Acq On : 21 Oct 2019 14:39  
 Operator : JC/SP  
 Sample : K5344-03  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Oct 21 15:25:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM101919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Oct 21 05:38:49 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 669264   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 636440   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 245890   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.62    | 65    | 255794   | 44.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 88.86%  |
| 7) Chloroethane-d5             | 1.93    | 69    | 228787   | 47.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 94.70%  |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 339032   | 35.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 71.38%  |
| 21) 2-Butanone-d5              | 4.70    | 46    | 395920   | 103.74   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.74% |
| 24) Chloroform-d               | 5.11    | 84    | 428192   | 46.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.04%  |
| 26) 1,2-Dichloroethane-d4      | 5.75    | 65    | 301369   | 49.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.82%  |
| 32) Benzene-d6                 | 5.77    | 84    | 912550   | 49.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.44%  |
| 36) 1,2-Dichloropropane-d6     | 6.74    | 67    | 299329   | 51.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 102.06% |
| 41) Toluene-d8                 | 7.93    | 98    | 844588   | 48.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.44%  |
| 43) trans-1,3-Dichloropropene- | 8.21    | 79    | 149224   | 49.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 98.24%  |
| 47) 2-Hexanone-d5              | 8.68    | 63    | 275996   | 105.91   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 105.91% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79   | 84    | 410772   | 47.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 94.24%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22   | 152   | 267512   | 46.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.86%  |

## Target Compounds

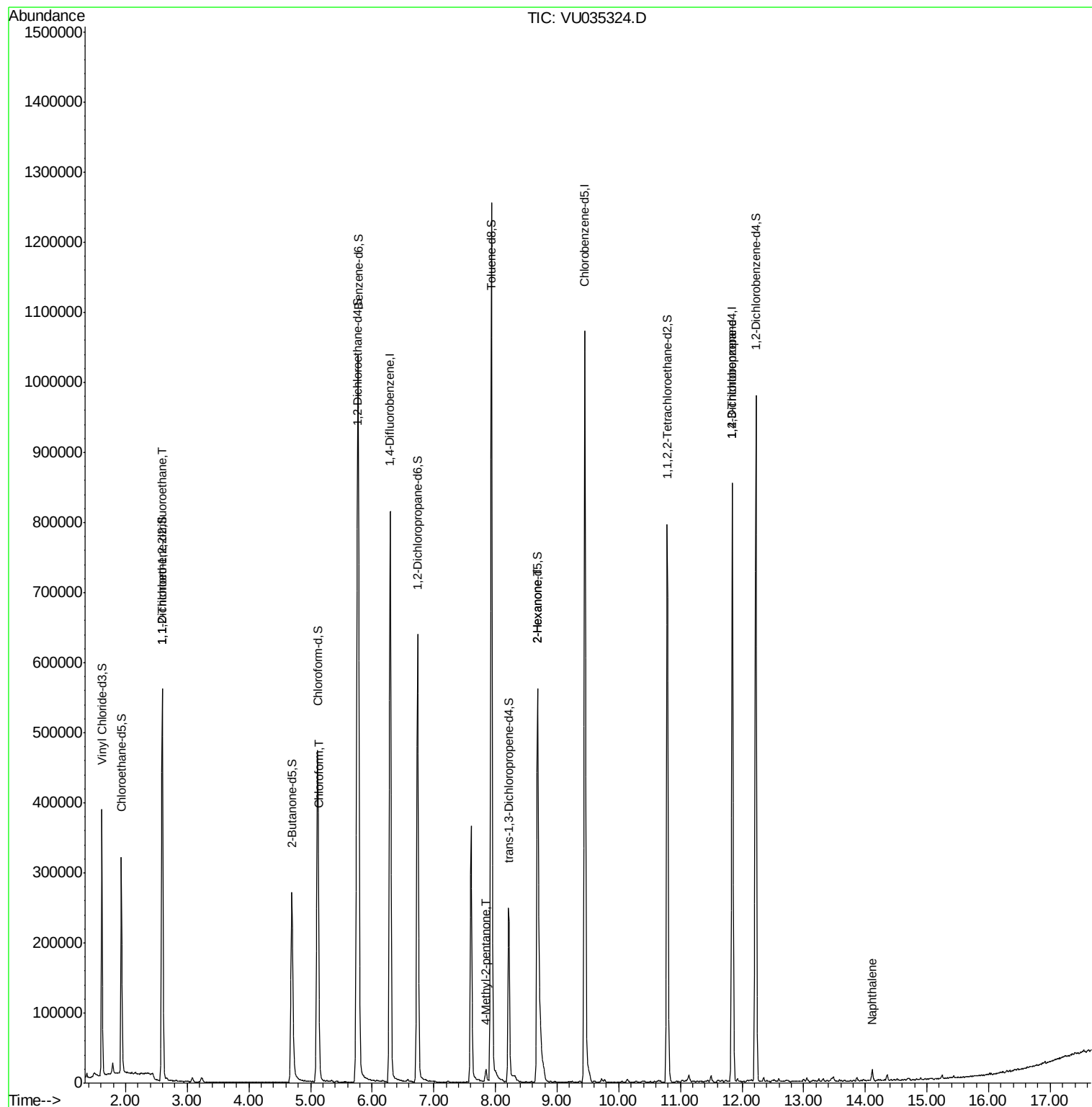
|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60  | 101 | 3111  | 0.736 ug/L # | 22     |
| 25) Chloroform                 | 5.14  | 83  | 20135 | 2.330 ug/L   | 97     |
| 40) 4-Methyl-2-pentanone       | 7.84  | 43  | 13063 | 1.898 ug/L   | 98     |
| 48) 2-Hexanone                 | 8.68  | 43  | 26993 | 4.610 ug/L # | 70     |
| 59) 1,2,3-Trichloropropane     | 11.84 | 75  | 29176 | 4.598 ug/L   | 92     |
| 69) Naphthalene                | 14.11 | 128 | 13124 | 1.618 ug/L   | 97     |

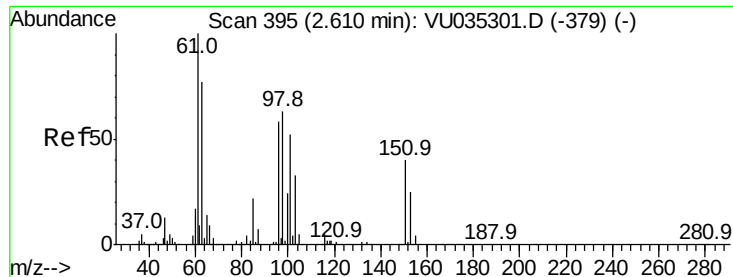
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU102119\  
Data File : VU035324.D  
Acq On : 21 Oct 2019 14:39  
Operator : JC/SP  
Sample : K5344-03  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Oct 21 15:25:28 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM101919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Oct 21 05:38:49 2019  
Response via : Initial Calibration





#10

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

Concen: 0.736 ug/L

RT: 2.60 min Scan# 391

Delta R.T. -0.01 min

Lab File: VU035324.D

Acq: 21 Oct 2019 14:39

Instrument :

MSVOA\_U

ClientSampleId :

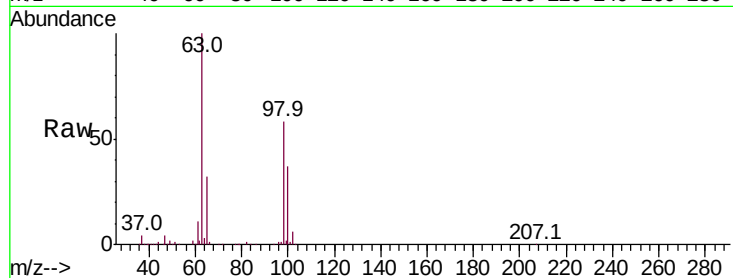
Tot Ion:101 Resp: 3111

Ion Ratio Lower Upper

101 100

85 0.0 33.7 50.5#

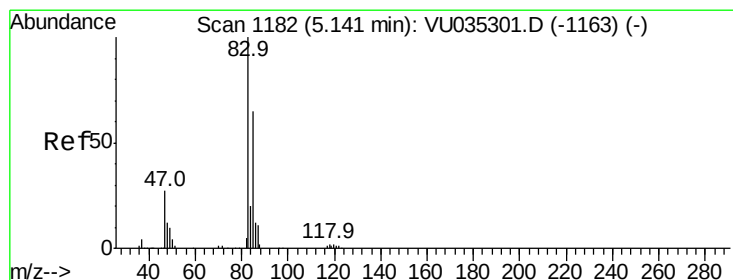
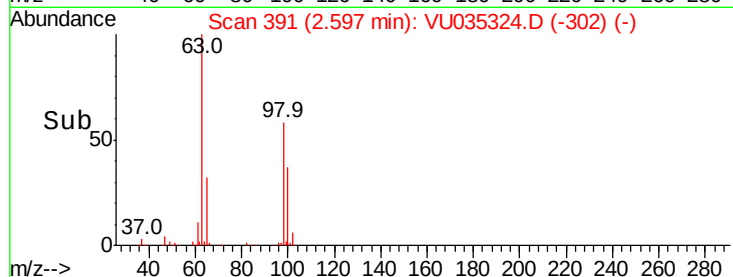
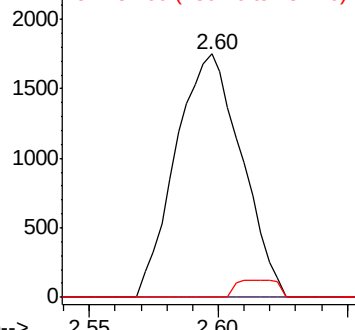
151 2.9 60.3 90.5#



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



#25

Chloroform

Concen: 2.330 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VU035324.D

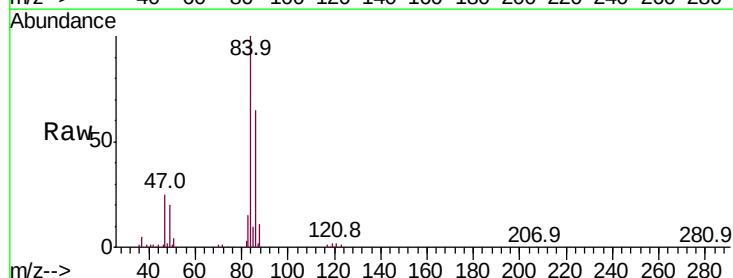
Acq: 21 Oct 2019 14:39

Tgt Ion: 83 Resp: 20135

Ion Ratio Lower Upper

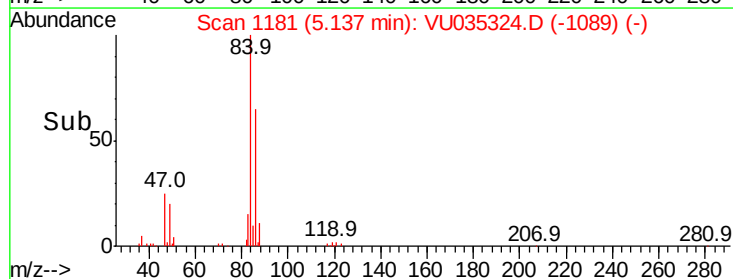
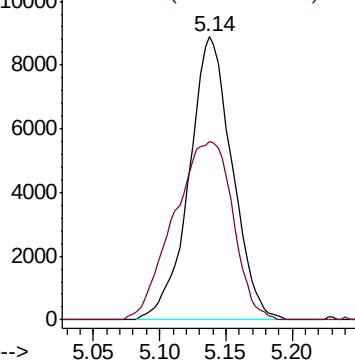
83 100

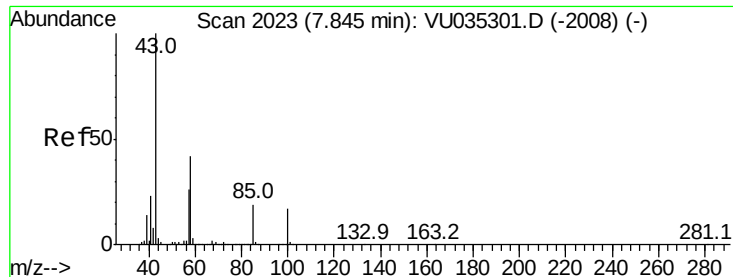
85 62.8 45.5 84.5



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

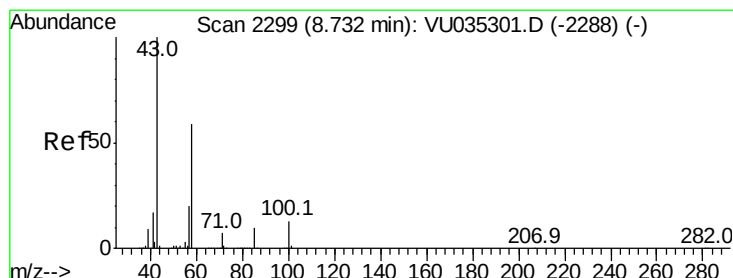
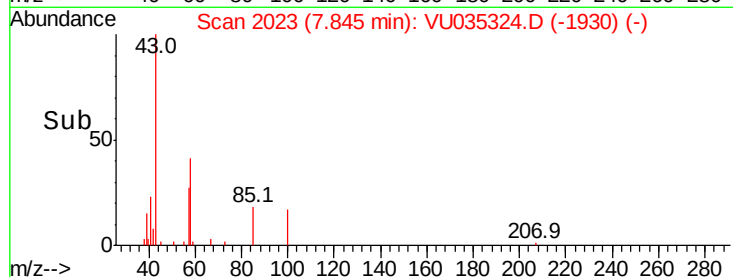
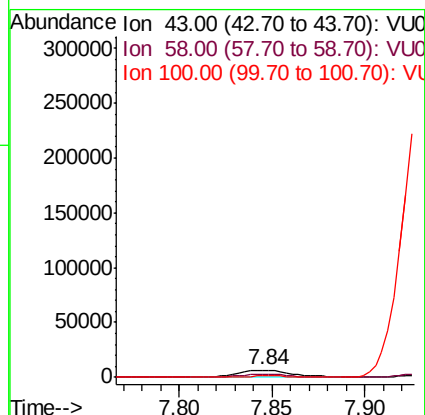
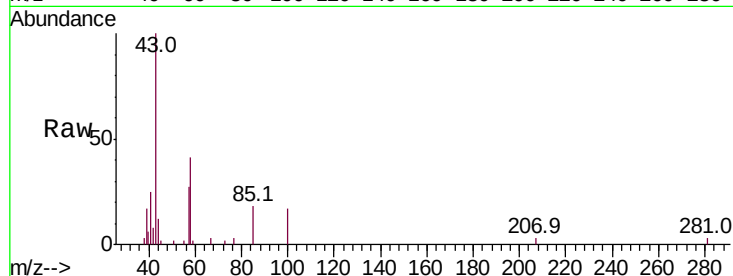




#40  
4-Methyl-2-pentanone  
Concen: 1.898 ug/L  
RT: 7.84 min Scan# 2023  
Delta R.T. -0.00 min  
Lab File: VU035324.D  
Acq: 21 Oct 2019 14:39

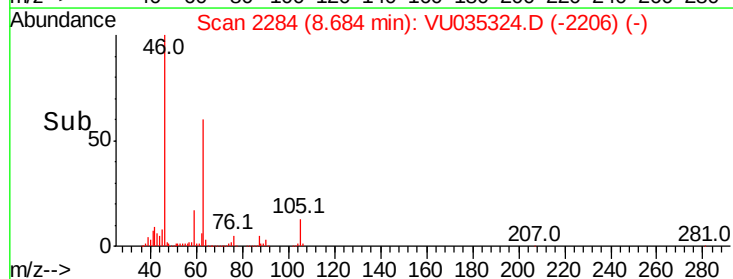
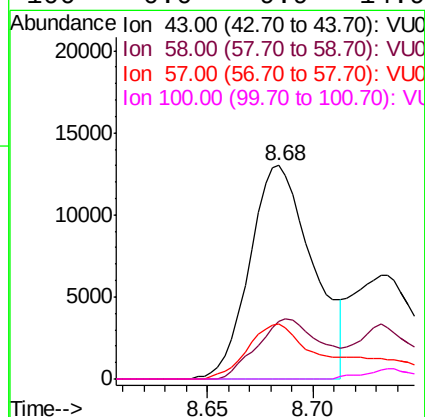
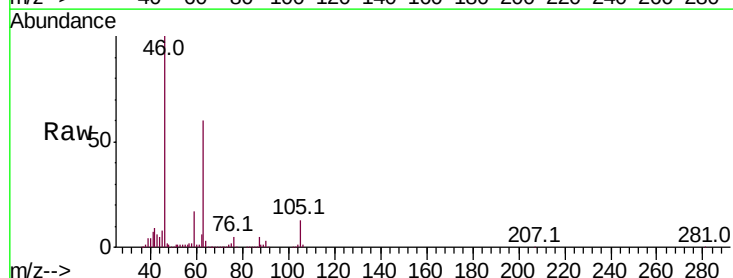
Instrument :  
MSVOA\_U  
ClientSampleId :

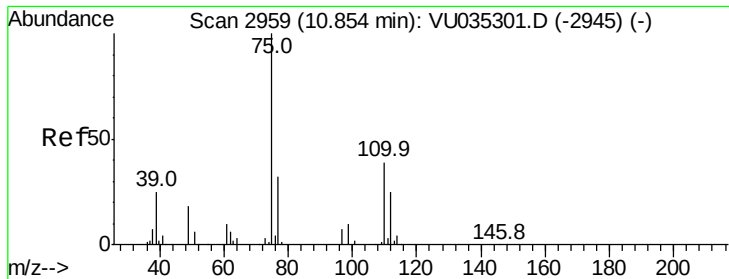
Tot Ion: 43 Resp: 13063  
Ion Ratio Lower Upper  
43 100  
58 42.6 33.1 49.7  
100 16.7 13.2 19.8



#48  
2-Hexanone  
Concen: 4.610 ug/L  
RT: 8.68 min Scan# 2284  
Delta R.T. -0.05 min  
Lab File: VU035324.D  
Acq: 21 Oct 2019 14:39

Tgt Ion: 43 Resp: 26993  
Ion Ratio Lower Upper  
43 100  
58 28.8 42.7 64.1#  
57 25.7 14.8 22.2#  
100 0.0 9.9 14.9#





#59

1,2,3-Trichloropropane

Concen: 4.598 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU035324.D

Acq: 21 Oct 2019 14:39

Instrument :

MSVOA\_U

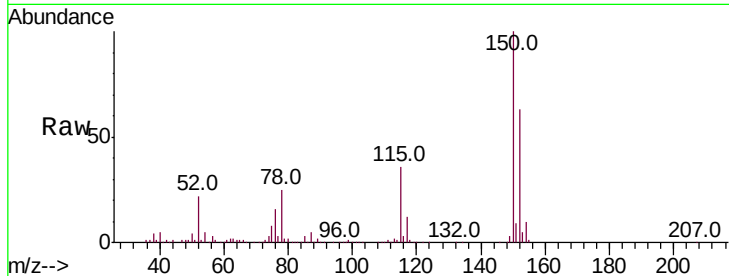
ClientSampleId :

Tot Ion: 75 Resp: 29176

Ion Ratio Lower Upper

75 100

77 37.3 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU035324.D (-2337) (-)

Ion 77.00 (76.70 to 77.70): VU035324.D (-2337) (-)

11.84

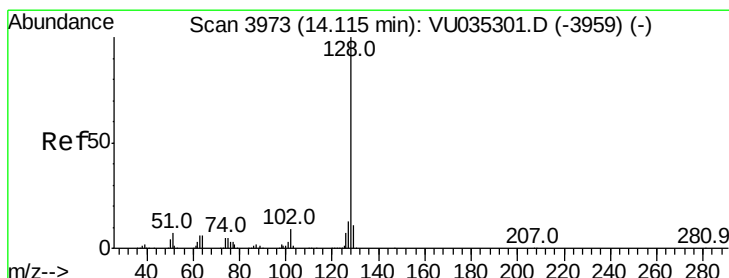
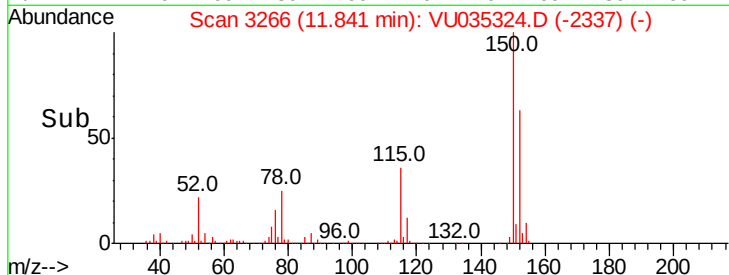
15000

10000

5000

0

Time-->



#69

Naphthalene

Concen: 1.618 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU035324.D

Acq: 21 Oct 2019 14:39

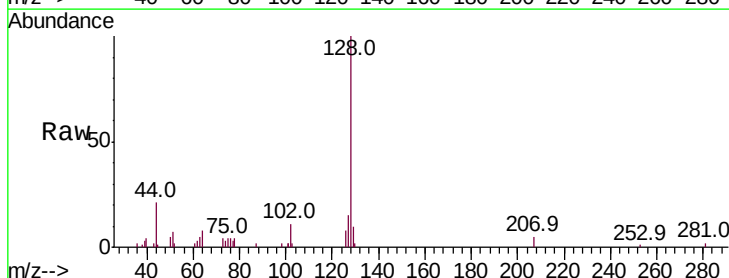
Tgt Ion: 128 Resp: 13124

Ion Ratio Lower Upper

128 100

127 13.8 10.2 15.4

129 9.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): VU035324.D (-3351) (-)

Ion 127.00 (126.70 to 127.70): VU035324.D (-3351) (-)

Ion 129.00 (128.70 to 129.70): VU035324.D (-3351) (-)

14.11

10000

8000

6000

4000

2000

0

Time-->

