

Data File : VU035081.D  
Acq On : 11 Oct 2019 11:35  
Operator : JC/SP  
Sample : K5310-06  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
IW-2-001-02

Quant Time: Oct 12 01:53:03 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 12 01:49:52 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 156369   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 160144   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 69475    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 37647    | 4.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 81.40%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 37598    | 4.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 55188    | 2.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 56.60%# |
| 20) 2-Butanone-d5              | 4.19   | 46    | 173318   | 63.67    | ug/L | 0.03    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 127.34% |
| 24) Chloroform-d               | 4.62   | 84    | 92675    | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 107.20% |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 52235    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.00% |
| 32) Benzene-d6                 | 5.31   | 84    | 168868   | 4.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 63849    | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.80% |
| 41) Toluene-d8                 | 7.55   | 98    | 141568   | 3.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 78.00%  |
| 43) trans-1,3-Dichloropropene- | 7.84   | 79    | 19366    | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 85.80%  |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 125554   | 58.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 116.86% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 59433    | 5.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 112.40% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 61798    | 5.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 105.40% |

#### Target Compounds

|                              |       |     |        |              | Qvalue |
|------------------------------|-------|-----|--------|--------------|--------|
| 3) Chloromethane             | 1.32  | 50  | 2068   | 0.132 ug/L   | 94     |
| 5) Vinyl chloride            | 1.40  | 62  | 144955 | 9.414 ug/L   | 99     |
| 8) Chloroethane              | 1.56  | 64  | 86951  | 9.415 ug/L # | 50     |
| 13) Acetone                  | 2.34  | 43  | 7649   | 3.431 ug/L # | 1      |
| 14) Carbon disulfide         | 2.59  | 76  | 62452  | 1.868 ug/L   | 100    |
| 18) trans-1,2-Dichloroethene | 2.96  | 96  | 158747 | 14.761 ug/L  | 91     |
| 22) cis-1,2-Dichloroethene   | 4.20  | 96  | 11218  | 0.935 ug/L   | 87     |
| 34) Trichloroethene          | 6.17  | 95  | 7917   | 0.636 ug/L   | 98     |
| 35) Methylcyclohexane        | 6.31  | 83  | 13812  | 0.685 ug/L # | 20     |
| 37) 1,2-Dichloropropane      | 6.31  | 63  | 7217   | 0.555 ug/L # | 94     |
| 42) Toluene                  | 7.62  | 91  | 13247  | 0.263 ug/L   | 97     |
| 47) Tetrachloroethene        | 8.21  | 164 | 3773   | 0.375 ug/L   | 93     |
| 48) 2-Hexanone               | 8.30  | 43  | 14956  | 2.663 ug/L # | 70     |
| 49) Dibromochloromethane     | 8.21  | 129 | 3935   | 0.394 ug/L # | 12     |
| 51) Chlorobenzene            | 9.10  | 112 | 68720  | 2.106 ug/L   | 97     |
| 59) 1,2,3-Trichloropropane   | 11.46 | 75  | 10143  | 1.204 ug/L   | 98     |
| 62) 1,3-Dichlorobenzene      | 11.40 | 146 | 2410   | 0.113 ug/L   | 80     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU101219\  
Quantitation Report (Not Reviewed)

Data File : VU035081.D  
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MSVOA\_U  
ClientSampleId :  
IW-2-001-02

Quant Time: Oct 12 01:53:03 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 12 01:49:52 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

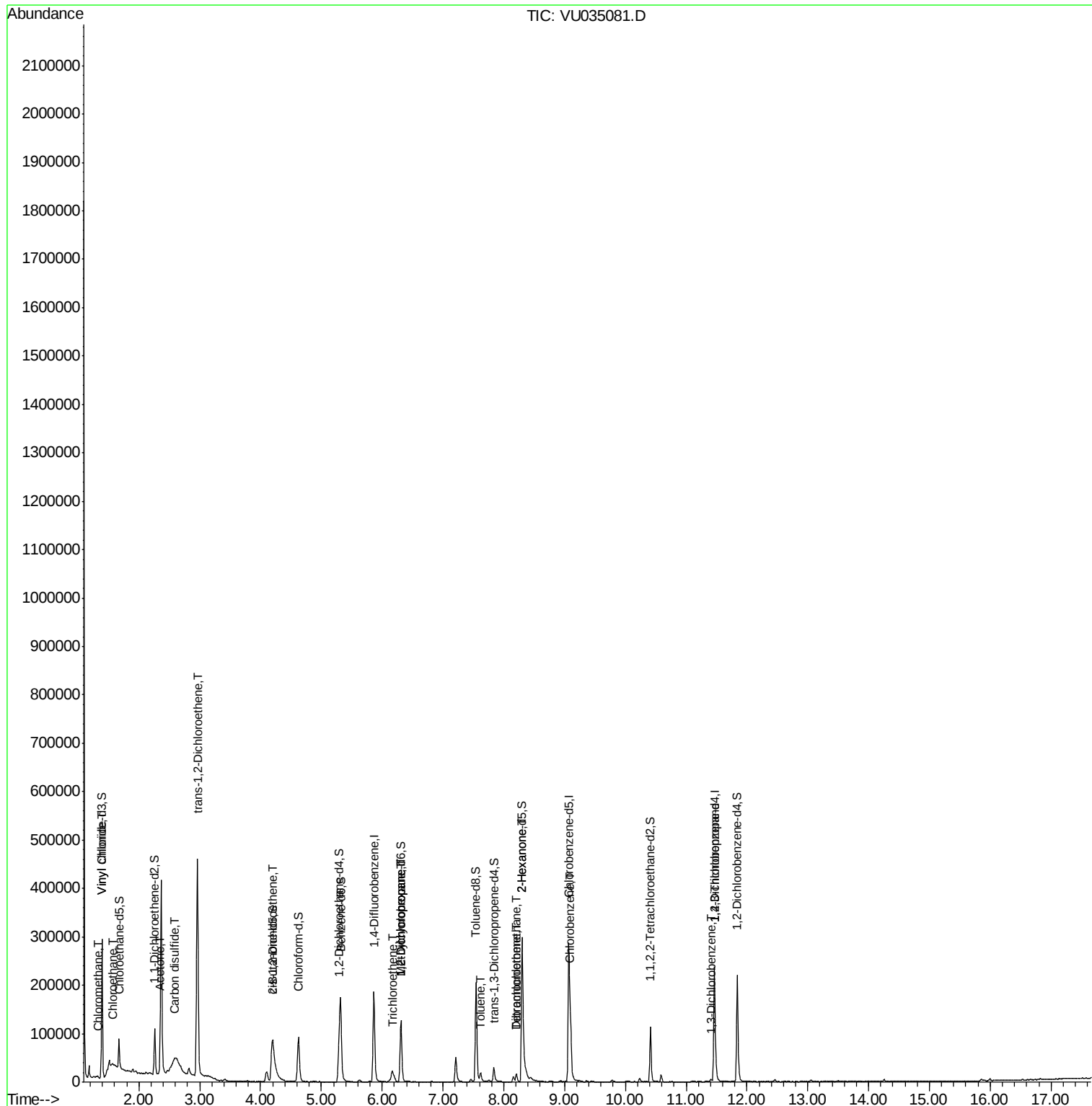
|       |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|
| ----- |  |  |  |  |  |  |
| ----- |  |  |  |  |  |  |

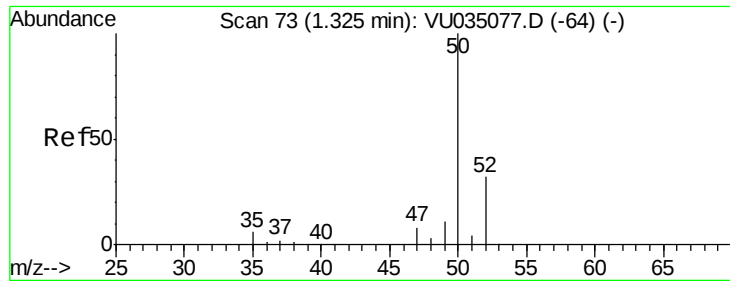
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.132 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU035081.D

Acq: 11 Oct 2019 11:35

Instrument :

MSVOA\_U

ClientSampleId :

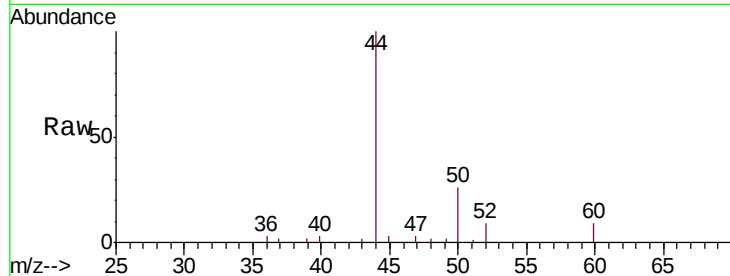
IW-2-001-02

Tgt Ion: 50 Resp: 2068

Ion Ratio Lower Upper

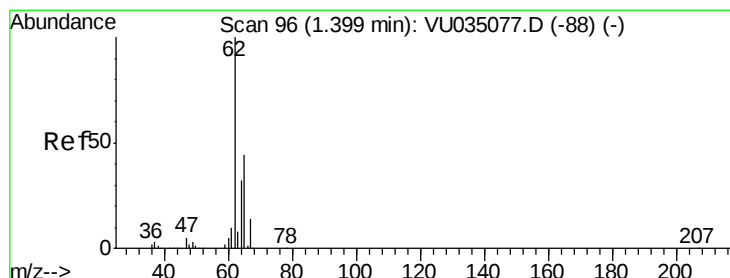
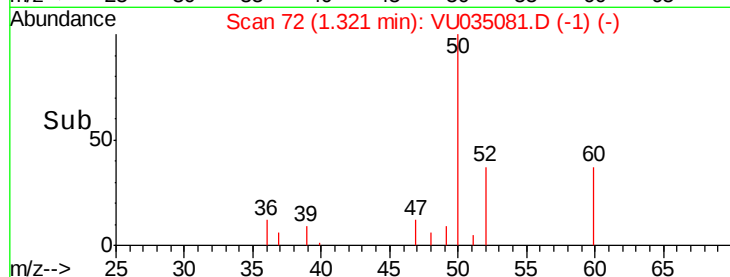
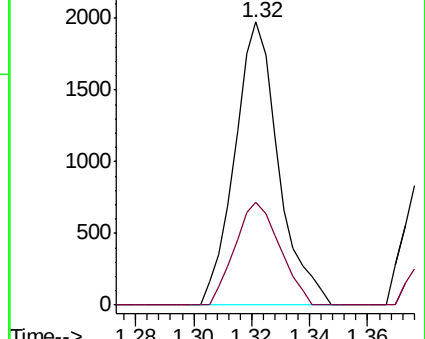
50 100

52 36.5 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU035081.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU035081.D (-1) (-)



#5

Vinyl chloride

Concen: 9.414 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU035081.D

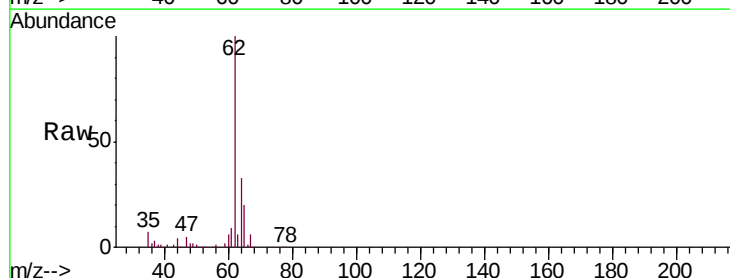
Acq: 11 Oct 2019 11:35

Tgt Ion: 62 Resp: 144955

Ion Ratio Lower Upper

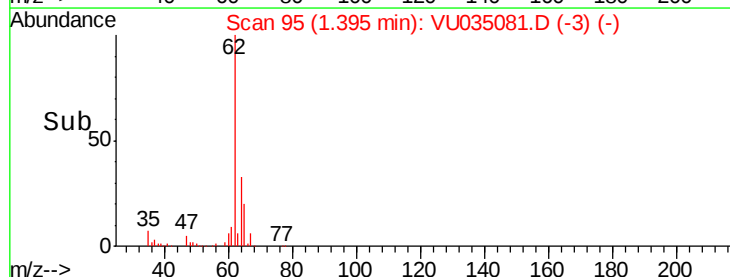
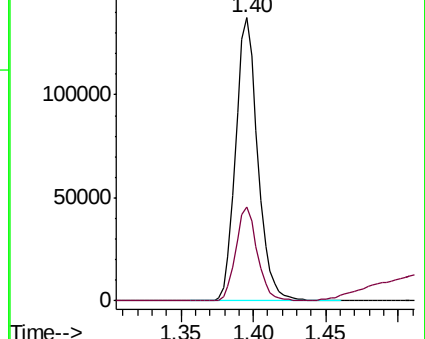
62 100

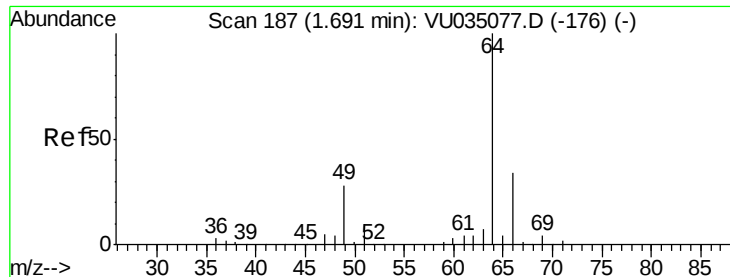
64 33.1 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU035081.D (-3) (-)

Ion 64.10 (63.80 to 64.80): VU035081.D (-3) (-)

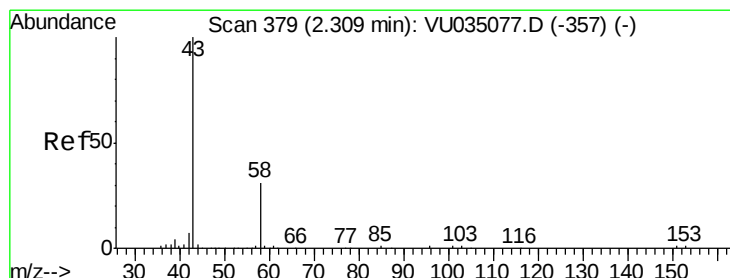
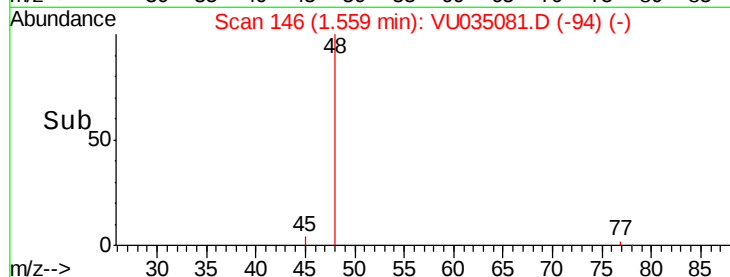
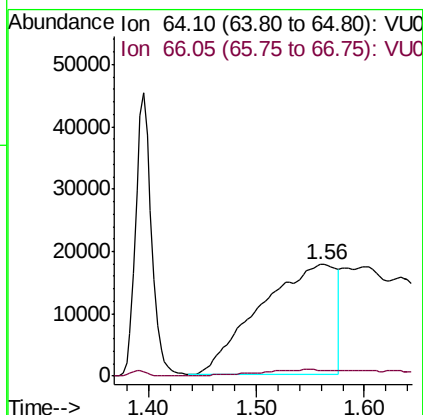
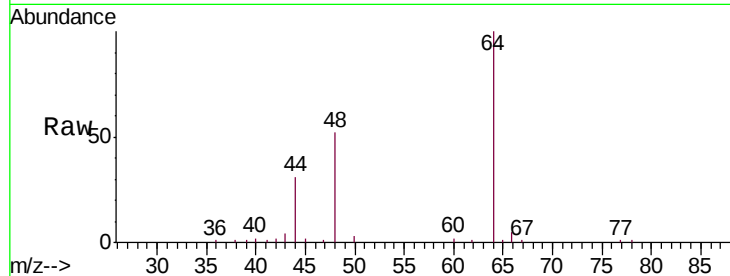




#8  
Chloroethane  
Concen: 9.415 ug/L  
RT: 1.56 min Scan# 146  
Delta R.T. -0.13 min  
Lab File: VU035081.D  
Acq: 11 Oct 2019 11:35

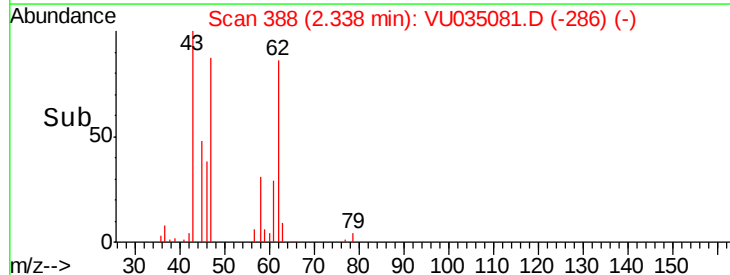
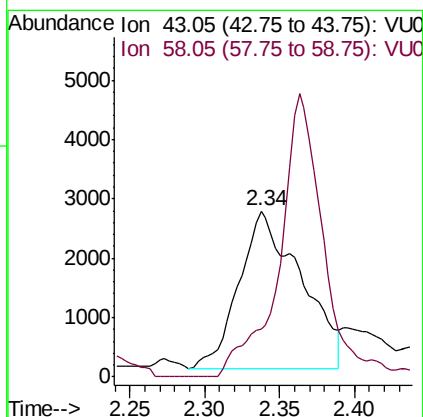
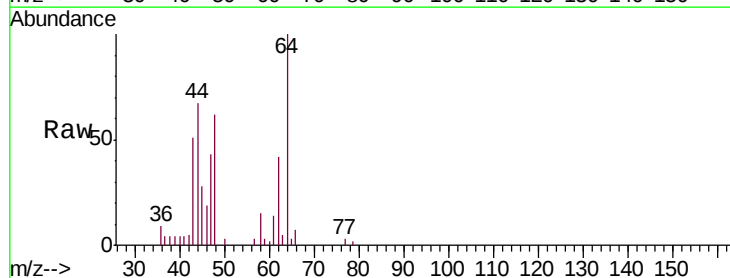
Instrument :  
MSVOA\_U  
ClientSampleId :  
IW-2-001-02

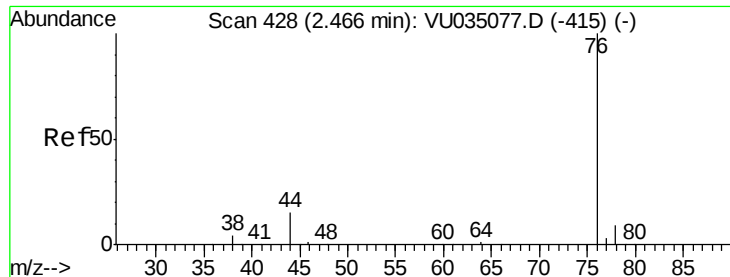
Tgt Ion: 64 Resp: 86951  
Ion Ratio Lower Upper  
64 100  
66 4.7 23.2 43.2#



#13  
Acetone  
Concen: 3.431 ug/L  
RT: 2.34 min Scan# 388  
Delta R.T. 0.03 min  
Lab File: VU035081.D  
Acq: 11 Oct 2019 11:35

Tgt Ion: 43 Resp: 7649  
Ion Ratio Lower Upper  
43 100  
58 125.9 0.0 66.6#





#14

Carbon disulfide

Concen: 1.868 ug/L

RT: 2.59 min Scan# 465

Delta R.T. 0.12 min

Lab File: VU035081.D

Acq: 11 Oct 2019 11:35

Instrument :

MSVOA\_U

ClientSampleId :

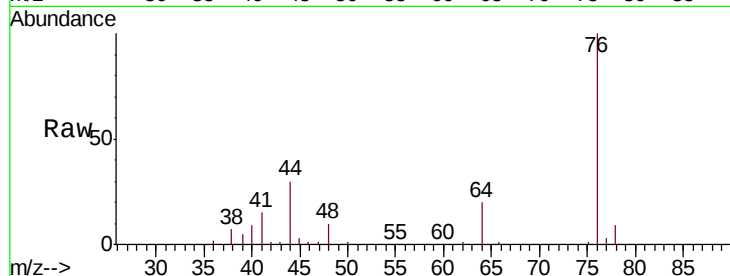
IW-2-001-02

Tgt Ion: 76 Resp: 62452

Ion Ratio Lower Upper

76 100

78 8.8 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU035077.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU035077.D (-415) (-)

25000

20000

15000

10000

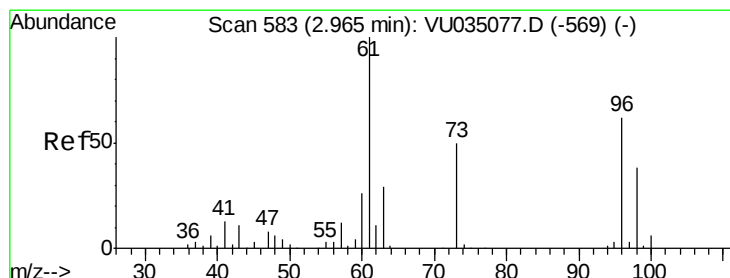
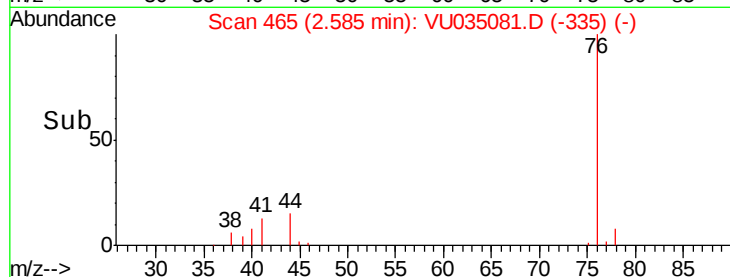
5000

0

Time-->

2.45 2.50 2.55 2.60

2.59



#18

trans-1,2-Dichloroethene

Concen: 14.761 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU035081.D

Acq: 11 Oct 2019 11:35

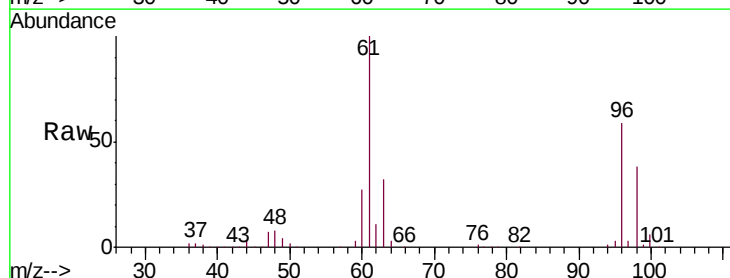
Tgt Ion: 96 Resp: 158747

Ion Ratio Lower Upper

96 100

61 169.2 107.1 198.9

98 64.4 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VU035077.D (-569) (-)

Ion 61.05 (60.75 to 61.75): VU035077.D (-569) (-)

Ion 97.95 (97.65 to 98.65): VU035077.D (-569) (-)

200000

150000

100000

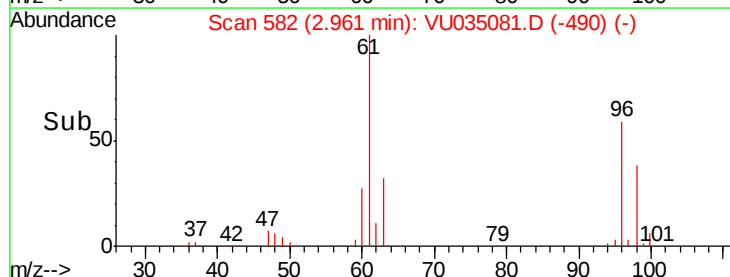
50000

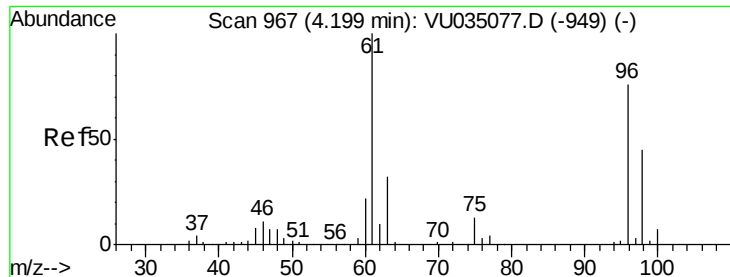
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Time-->

2.90 2.95 3.00 3.05

2.96



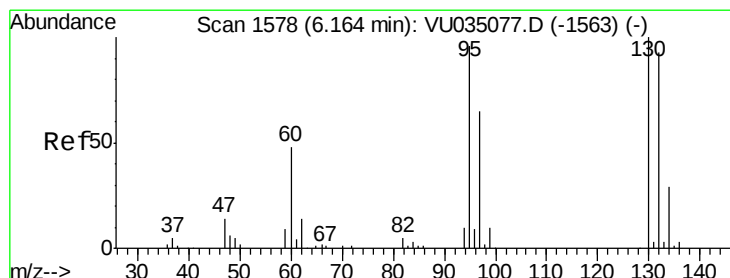
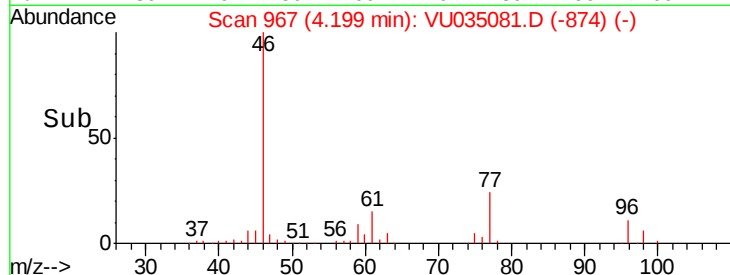
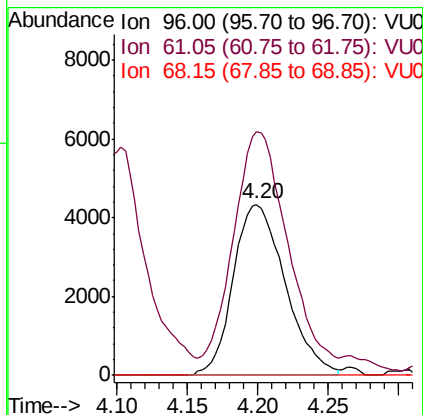
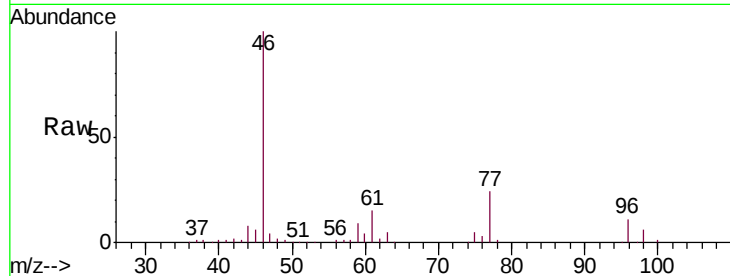


#22

cis-1,2-Dichloroethene  
Concen: 0.935 ug/L  
RT: 4.20 min Scan# 967  
Delta R.T. -0.00 min  
Lab File: VU035081.D  
Acq: 11 Oct 2019 11:35

Instrument :  
MSVOA\_U  
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IW-2-001-02

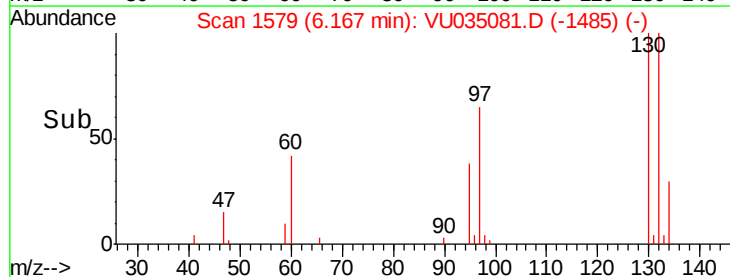
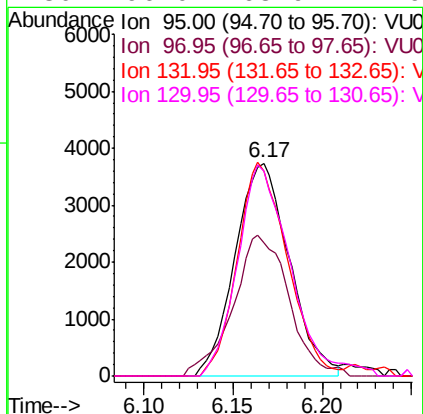
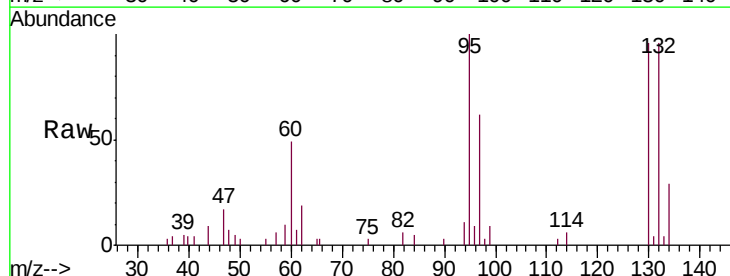
Tgt Ion: 96 Resp: 11218  
Ion Ratio Lower Upper  
96 100  
61 142.6 89.2 165.6  
68 0.0 0.0 0.0

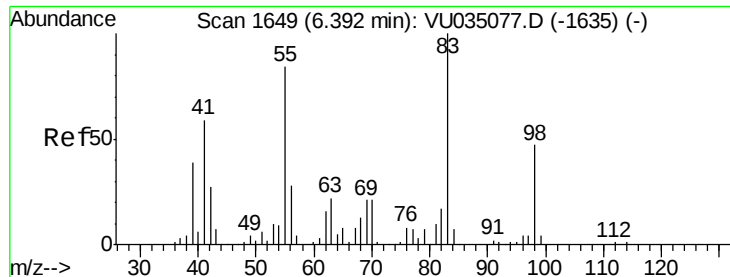


#34

Trichloroethene  
Concen: 0.636 ug/L  
RT: 6.17 min Scan# 1579  
Delta R.T. 0.00 min  
Lab File: VU035081.D  
Acq: 11 Oct 2019 11:35

Tgt Ion: 95 Resp: 7917  
Ion Ratio Lower Upper  
95 100  
97 62.4 44.5 82.7  
132 96.4 66.6 123.8  
130 96.0 68.9 127.9

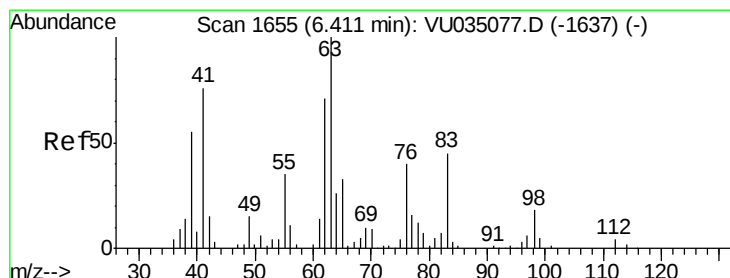
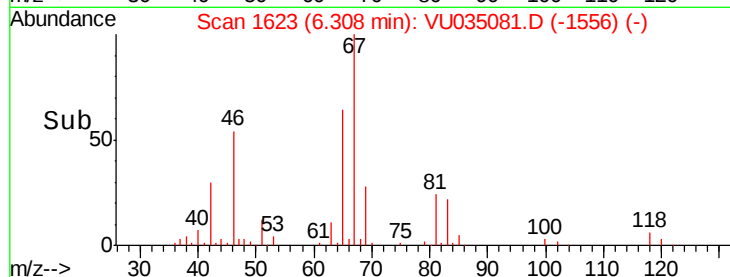
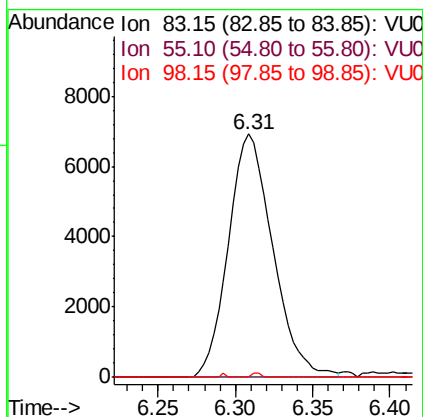
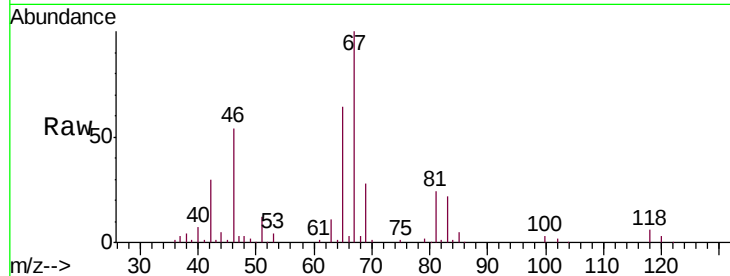




#35  
Methylcyclohexane  
Concen: 0.685 ug/L  
RT: 6.31 min Scan# 1623  
Delta R.T. -0.08 min  
Lab File: VU035081.D  
Acq: 11 Oct 2019 11:35

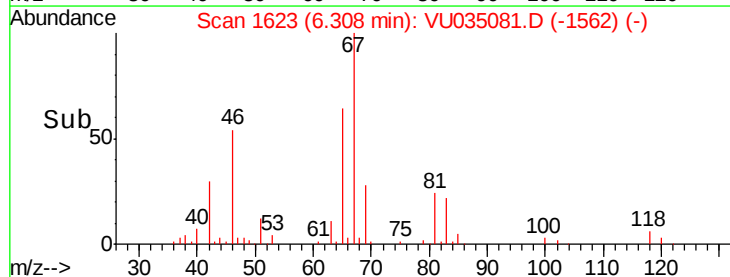
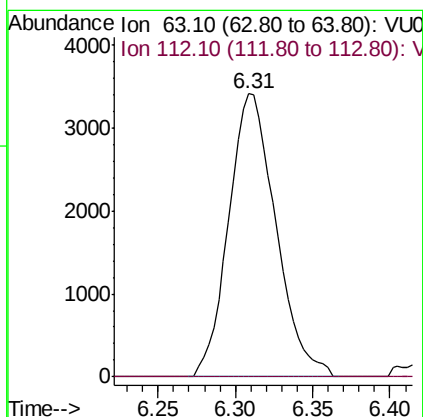
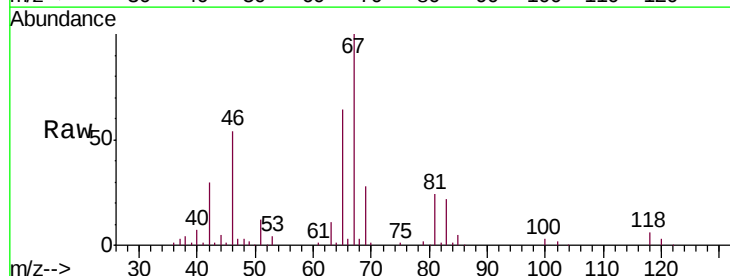
Instrument :  
MSVOA\_U  
ClientSampleId :  
IW-2-001-02

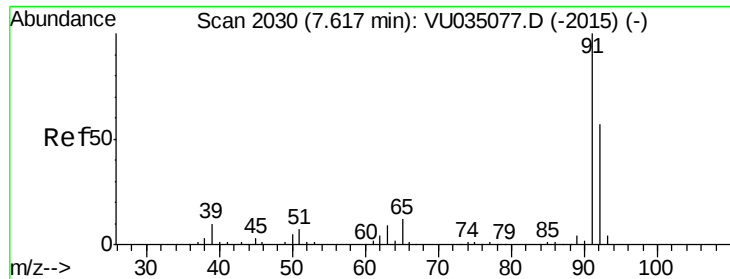
Tgt Ion: 83 Resp: 13812  
Ion Ratio Lower Upper  
83 100  
55 2.5 62.6 94.0#  
98 0.3 36.2 54.2#



#37  
1,2-Dichloropropane  
Concen: 0.555 ug/L  
RT: 6.31 min Scan# 1623  
Delta R.T. -0.10 min  
Lab File: VU035081.D  
Acq: 11 Oct 2019 11:35

Tgt Ion: 63 Resp: 7217  
Ion Ratio Lower Upper  
63 100  
112 5.8 3.1 4.7#





#42

Toluene

Concen: 0.263 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU035081.D

Acq: 11 Oct 2019 11:35

Instrument :

MSVOA\_U

ClientSampleId :

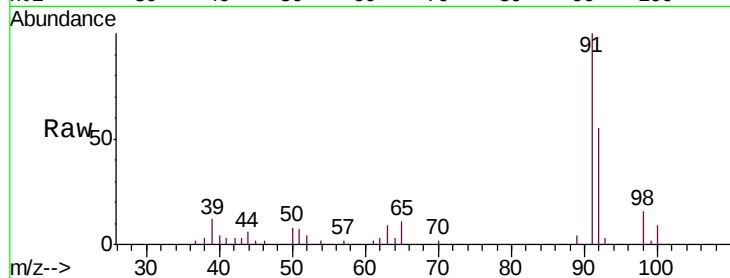
IW-2-001-02

Tgt Ion: 91 Resp: 13247

Ion Ratio Lower Upper

91 100

92 54.5 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU035077.D (-2015) (-)

Ion 92.15 (91.85 to 92.85): VU035077.D (-2015) (-)

7.62

8000

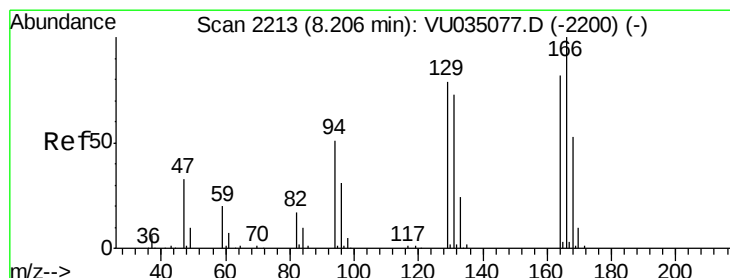
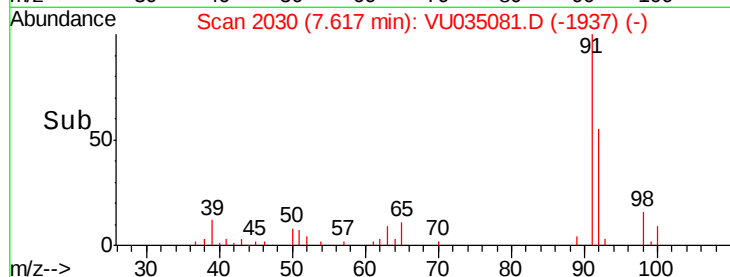
6000

4000

2000

0

Time-->



#47

Tetrachloroethene

Concen: 0.375 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU035081.D

Acq: 11 Oct 2019 11:35

Tgt Ion: 164 Resp: 3773

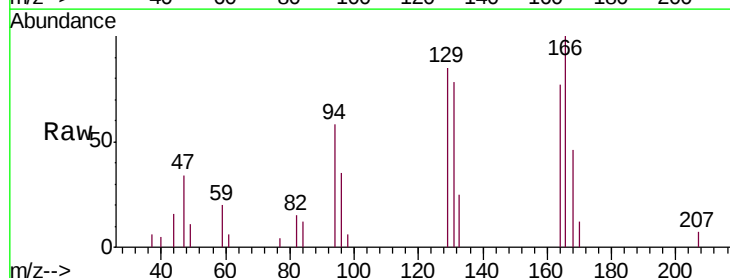
Ion Ratio Lower Upper

164 100

129 111.6 68.5 127.1

131 102.2 67.3 124.9

166 130.6 93.1 172.9



Abundance Ion 163.90 (163.60 to 164.60): VU035077.D (-2200) (-)

Ion 128.95 (128.65 to 129.65): VU035077.D (-2200) (-)

Ion 130.95 (130.65 to 131.65): VU035077.D (-2200) (-)

Ion 165.90 (165.60 to 166.60): VU035077.D (-2200) (-)

4000

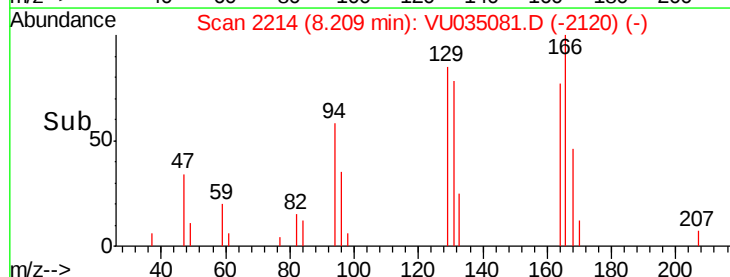
3000

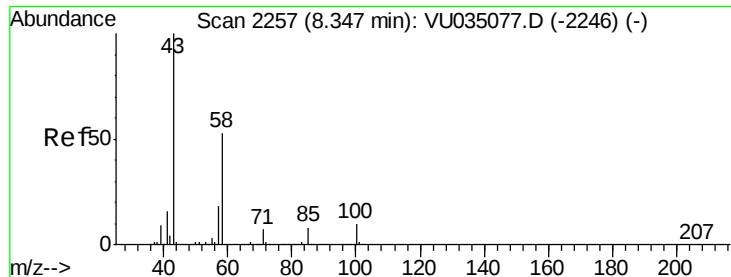
2000

1000

0

Time-->

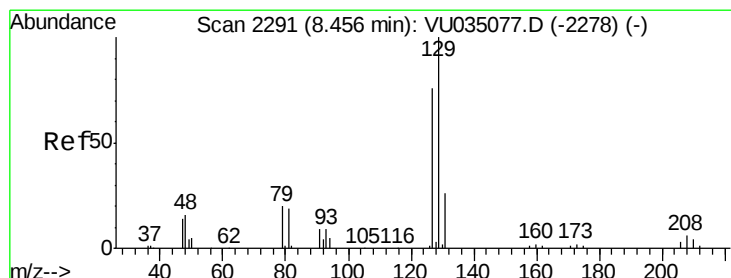
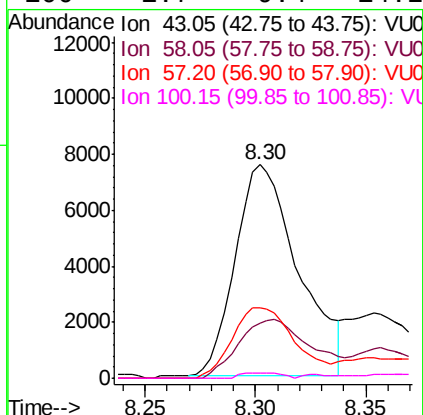
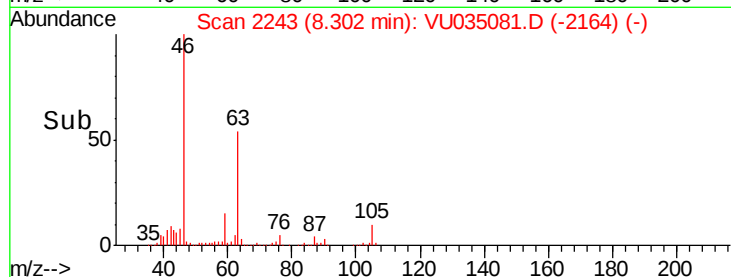
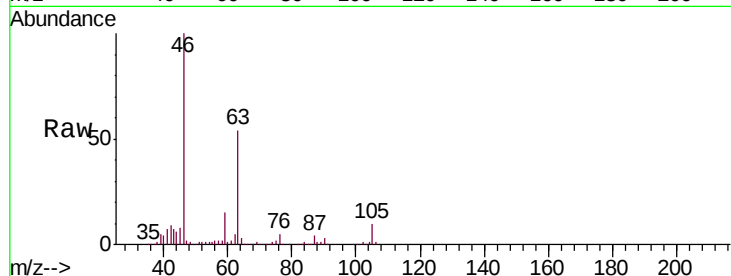




#48  
2-Hexanone  
Concen: 2.663 ug/L  
RT: 8.30 min Scan# 2243  
Delta R.T. -0.05 min  
Lab File: VU035081.D  
Acq: 11 Oct 2019 11:35

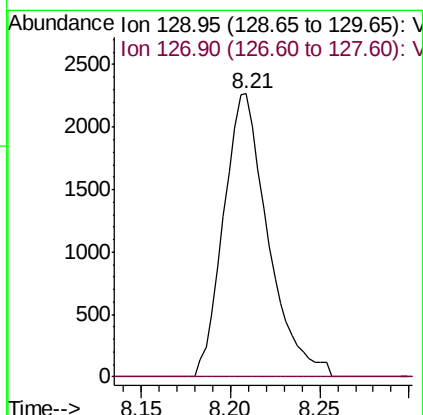
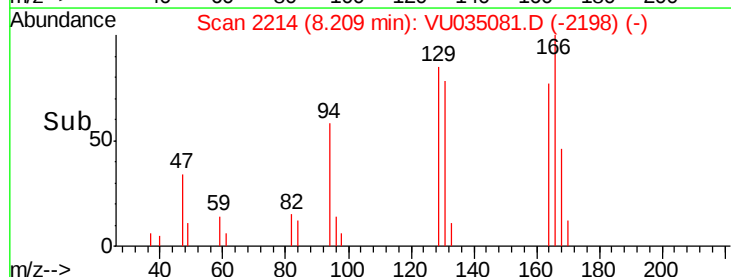
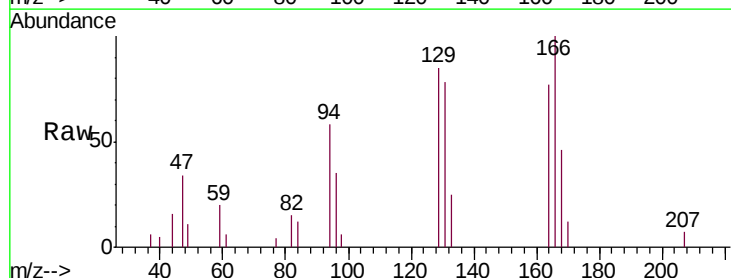
Instrument :  
MSVOA\_U  
ClientSampleId :  
IW-2-001-02

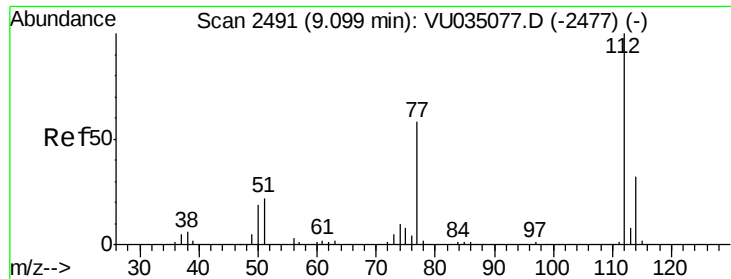
Tgt Ion: 43 Resp: 14956  
Ion Ratio Lower Upper  
43 100  
58 32.4 44.1 66.1#  
57 33.4 15.8 23.8#  
100 1.7 9.4 14.2#



#49  
Dibromochloromethane  
Concen: 0.394 ug/L  
RT: 8.21 min Scan# 2214  
Delta R.T. -0.25 min  
Lab File: VU035081.D  
Acq: 11 Oct 2019 11:35

Tgt Ion: 129 Resp: 3935  
Ion Ratio Lower Upper  
129 100  
127 0.0 51.9 96.5#

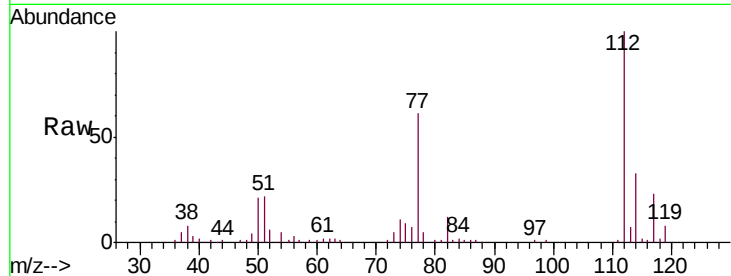




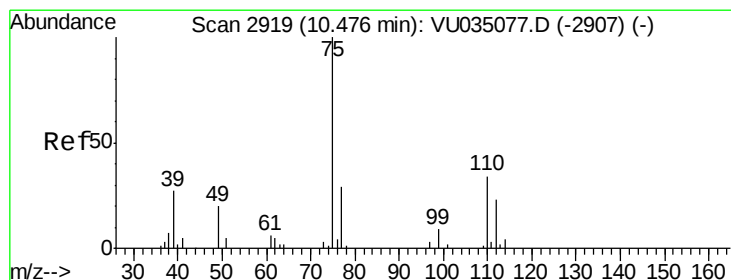
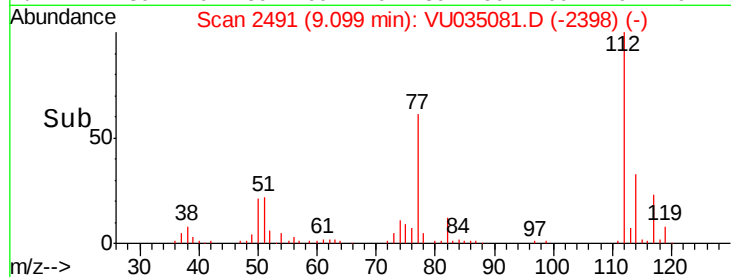
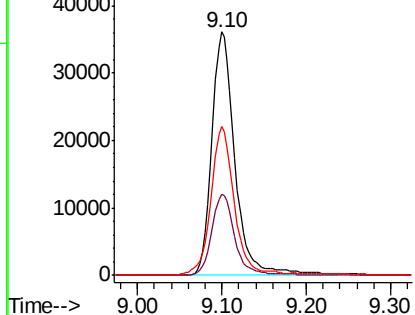
#51  
Chlorobenzene  
Concen: 2.106 ug/L  
RT: 9.10 min Scan# 2491  
Delta R.T. -0.00 min  
Lab File: VU035081.D  
Acq: 11 Oct 2019 11:35

Instrument :  
MSVOA\_U  
ClientSampleId :  
IW-2-001-02

Tgt Ion: 112 Resp: 68720  
Ion Ratio Lower Upper  
112 100  
114 33.3 22.1 41.1  
77 61.2 46.9 70.3

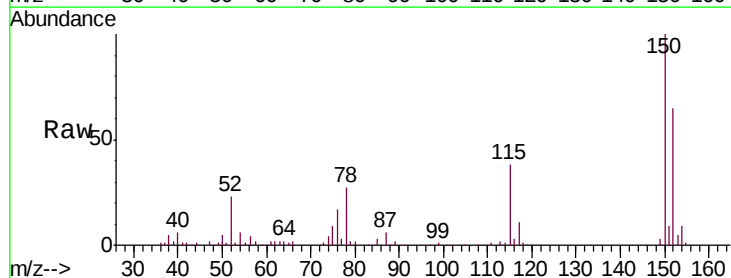


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 114.05 (113.75 to 114.75): V  
Ion 77.10 (76.80 to 77.80): V

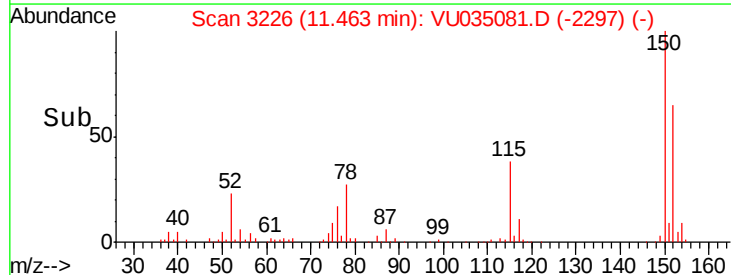
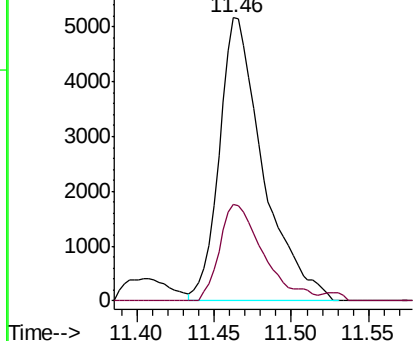


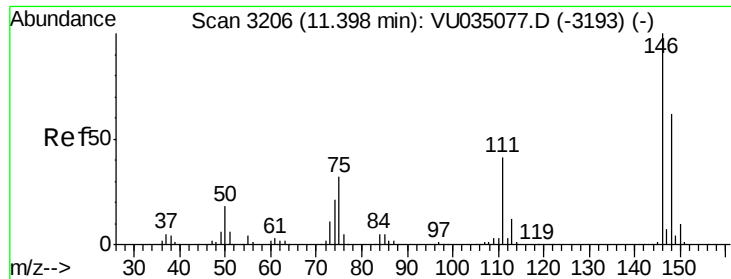
#59  
1,2,3-Trichloropropane  
Concen: 1.204 ug/L  
RT: 11.46 min Scan# 3226  
Delta R.T. 0.99 min  
Lab File: VU035081.D  
Acq: 11 Oct 2019 11:35

Tgt Ion: 75 Resp: 10143  
Ion Ratio Lower Upper  
75 100  
77 34.1 26.5 39.7



Abundance Ion 75.00 (74.70 to 75.70): VU0  
Ion 77.00 (76.70 to 77.70): VU0





#62

1,3-Dichlorobenzene

Concen: 0.113 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU035081.D

Acq: 11 Oct 2019 11:35

Instrument :

MSVOA\_U

ClientSampleId :

IW-2-001-02

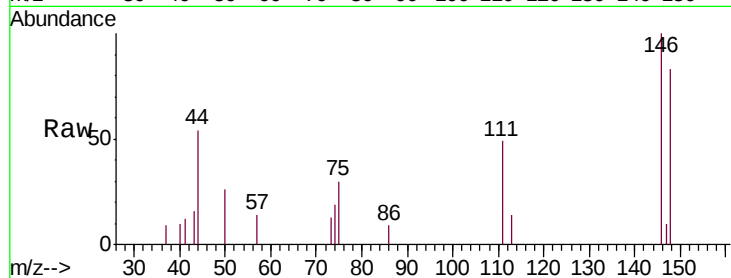
Tgt Ion:146 Resp: 2410

Ion Ratio Lower Upper

146 100

111 49.4 28.6 53.2

148 83.2 45.0 83.6



Abundance Ion 145.95 (145.65 to 146.65): V

2000 Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

