

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111920\  
 Data File : VU041353.D  
 Acq On : 19 Nov 2020 19:12  
 Operator : SY/MD  
 Sample : L4790-18  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4419

Quant Time: Nov 20 05:59:56 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Nov 20 05:56:10 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 57337    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 59188    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 23805    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 14703    | 3.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 69.80%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 14151    | 3.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 78.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 23977    | 2.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 55.00%# |
| 20) 2-Butanone-d5              | 4.66   | 46    | 94800    | 54.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 109.02% |
| 24) Chloroform-d               | 5.08   | 84    | 42816    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 27814    | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.40%  |
| 32) Benzene-d6                 | 5.74   | 84    | 67872    | 4.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 85.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 25240    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.80%  |
| 41) Toluene-d8                 | 7.91   | 98    | 49414    | 3.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 65.80%# |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 9491     | 4.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 80.20%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 62978    | 49.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.64%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 25487    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 23207    | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.00% |

## Target Compounds

|                               |      |    |        |               | Ovalue |
|-------------------------------|------|----|--------|---------------|--------|
| 3) Chloromethane              | 1.52 | 50 | 381    | 0.075 ug/L #  | 43     |
| 5) Vinyl chloride             | 1.61 | 62 | 68979  | 13.858 ug/L # | 81     |
| 8) Chloroethane               | 2.00 | 64 | 1107   | 0.335 ug/L #  | 51     |
| 13) Acetone                   | 2.67 | 43 | 1236   | 1.071 ug/L    | 100    |
| 14) Carbon disulfide          | 2.81 | 76 | 1312   | 0.119 ug/L #  | 74     |
| 17) Methyl tert-butyl Ether   | 3.38 | 73 | 122494 | 11.988 ug/L   | 100    |
| 18) trans-1,2-Dichloroethene  | 3.37 | 96 | 21932  | 6.033 ug/L    | 97     |
| 19) 1,1-Dichloroethane        | 3.88 | 63 | 7320   | 0.901 ug/L    | 94     |
| 22) cis-1,2-Dichloroethene    | 4.68 | 96 | 5697   | 1.388 ug/L    | 93     |
| 27) 1,2-Dichloroethane        | 5.75 | 62 | 225    | 0.036 ug/L #  | 74     |
| 33) Benzene                   | 5.79 | 78 | 6193   | 0.386 ug/L    | 100    |
| 34) Trichloroethene           | 6.55 | 95 | 307    | 0.071 ug/L #  | 77     |
| 35) Methylcyclohexane         | 6.70 | 83 | 5907   | 1.026 ug/L #  | 13     |
| 37) 1,2-Dichloropropane       | 6.70 | 63 | 2943   | 0.628 ug/L #  | 86     |
| 39) cis-1,3-Dichloropropene   | 7.57 | 75 | 623    | 0.095 ug/L #  | 63     |
| 42) Toluene                   | 7.98 | 91 | 4108   | 0.240 ug/L    | 97     |
| 44) trans-1,3-Dichloropropene | 8.19 | 75 | 436    | 0.070 ug/L    | 87     |

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Operator : SY/MD  
Sample : L4790-18  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 41 Sample Multiplier: 1

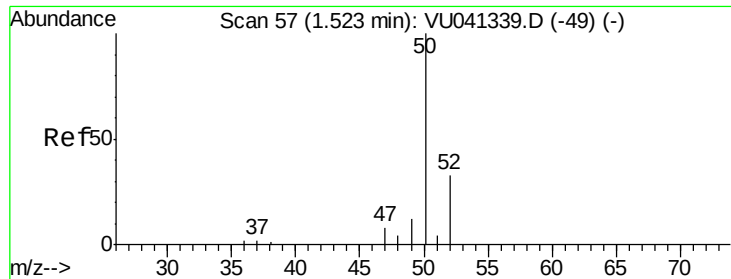
Instrument :  
MSVOA\_U  
ClientSampleId :  
H4419

Quant Time: Nov 20 05:59:56 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Nov 20 05:56:10 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon  | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|-------|----------|-------|--------|----------|
| -----                      | ----- | ----- | -----    | ----- | -----  | -----    |
| 59) 1,2,3-Trichloropropane | 11.81 | 75    | 3204     | 0.867 | ug/L # | 88       |
| -----                      | ----- | ----- | -----    | ----- | -----  | -----    |

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





#3

Chloromethane

Concen: 0.075 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU041353.D

Acq: 19 Nov 2020 19:12

Instrument :

MSVOA\_U

ClientSampleId :

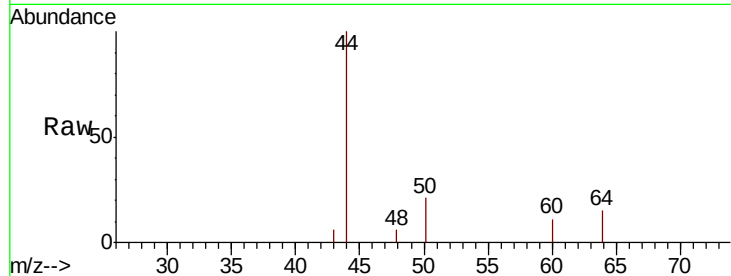
H4419

Tot Ion: 50 Resp: 381

Ion Ratio Lower Upper

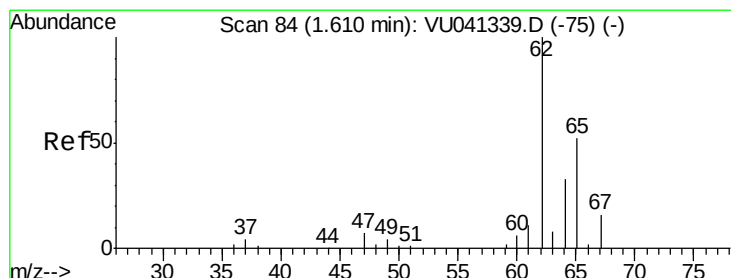
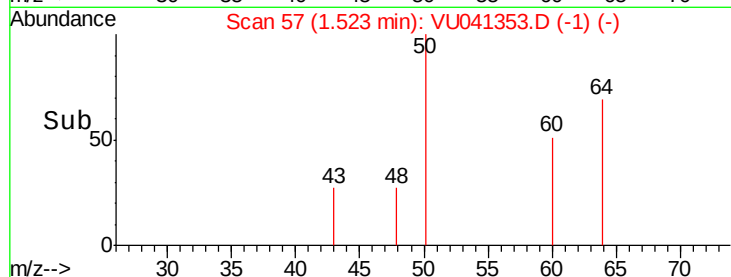
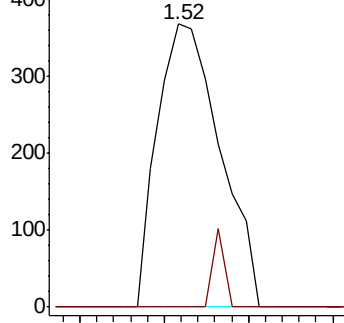
50 100

52 0.0 22.4 41.6#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 13.858 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041353.D

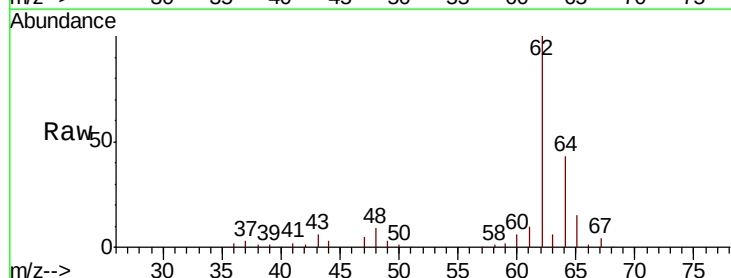
Acq: 19 Nov 2020 19:12

Tgt Ion: 62 Resp: 68979

Ion Ratio Lower Upper

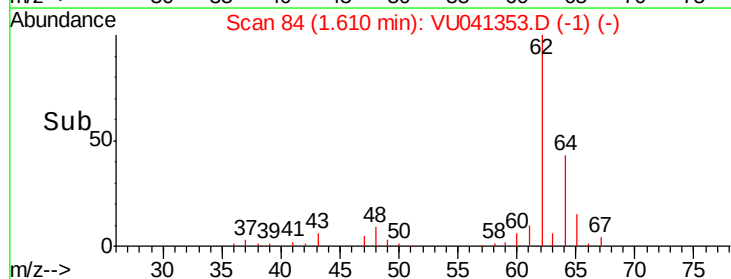
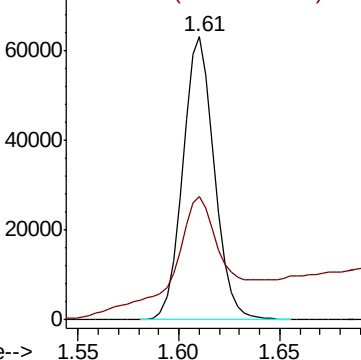
62 100

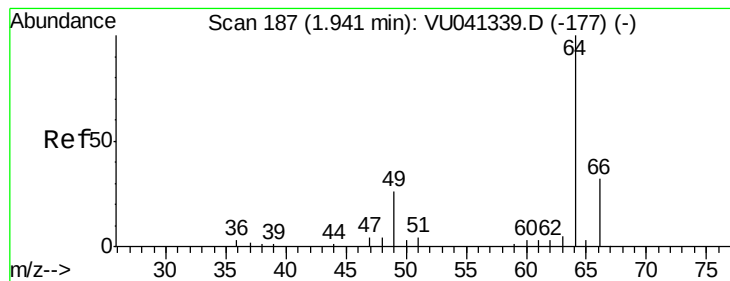
64 43.4 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.335 ug/L

RT: 2.00 min Scan# 206

Delta R.T. 0.06 min

Lab File: VU041353.D

Acq: 19 Nov 2020 19:12

Instrument :

MSVOA\_U

ClientSampleId :

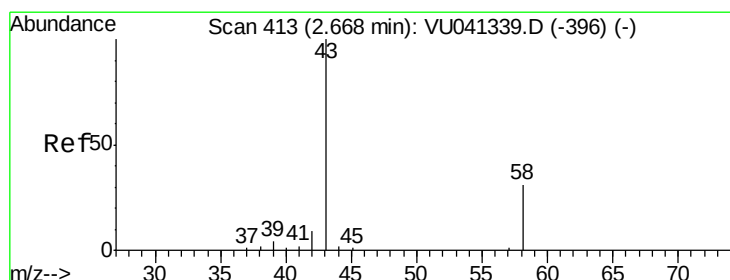
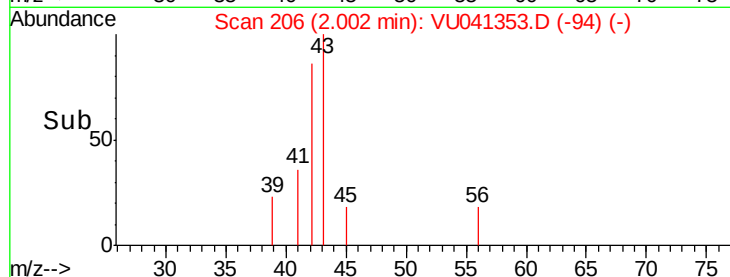
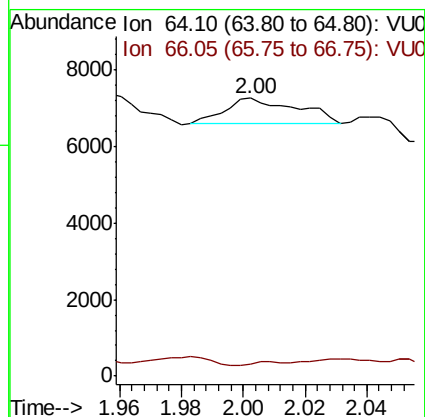
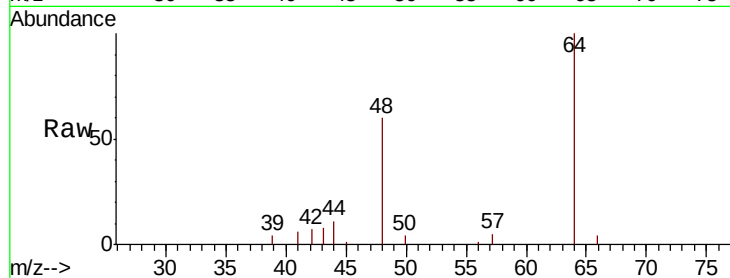
H4419

Tot Ion: 64 Resp: 1107

Ion Ratio Lower Upper

64 100

66 4.4 22.3 41.5#



#13

Acetone

Concen: 1.071 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.00 min

Lab File: VU041353.D

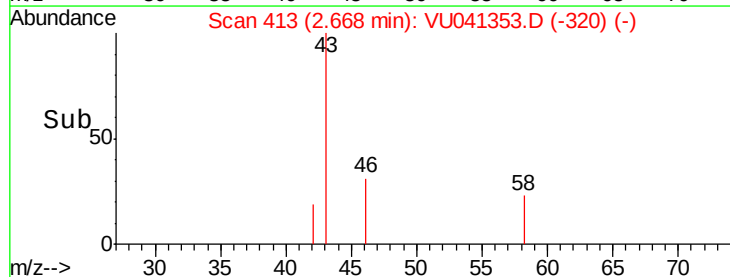
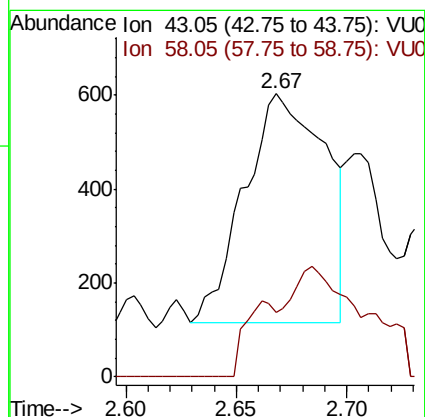
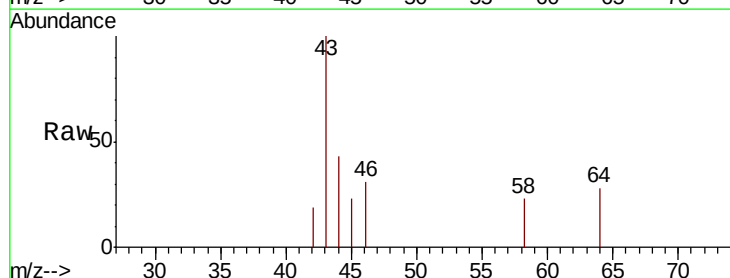
Acq: 19 Nov 2020 19:12

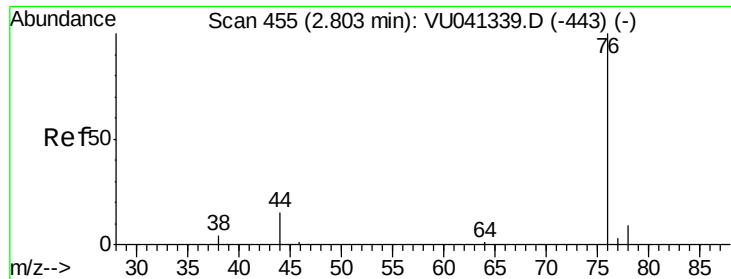
Tgt Ion: 43 Resp: 1236

Ion Ratio Lower Upper

43 100

58 12.8 0.0 25.4

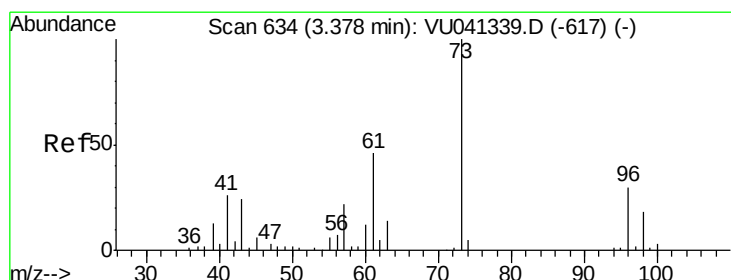
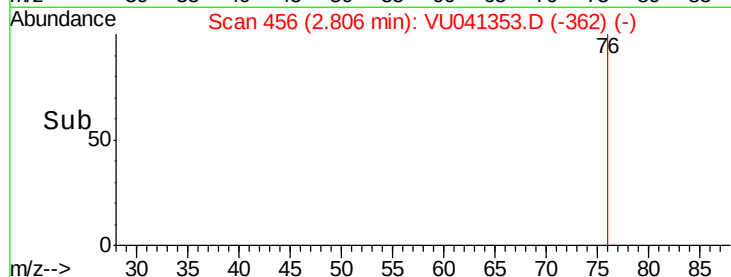
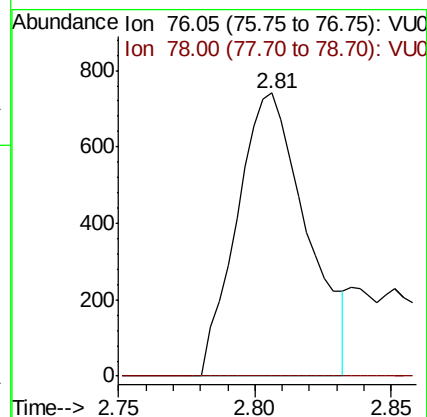
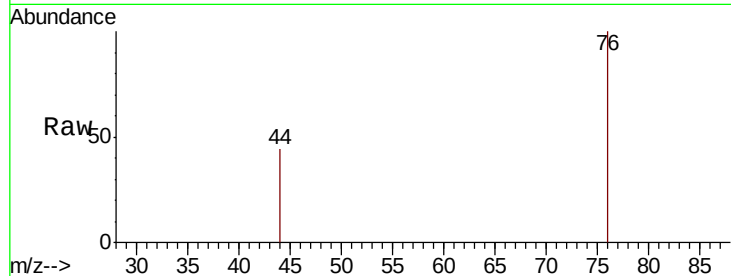




#14  
Carbon disulfide  
Concen: 0.119 ug/L  
RT: 2.81 min Scan# 456  
Delta R.T. 0.00 min  
Lab File: VU041353.D  
Acq: 19 Nov 2020 19:12

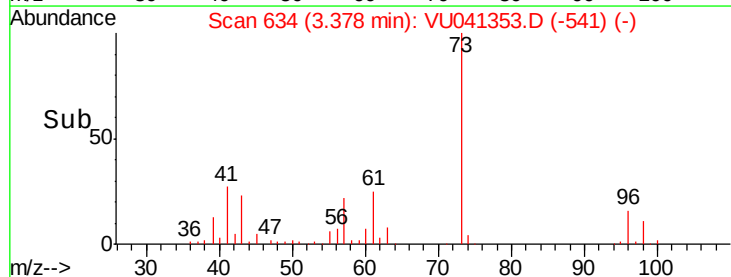
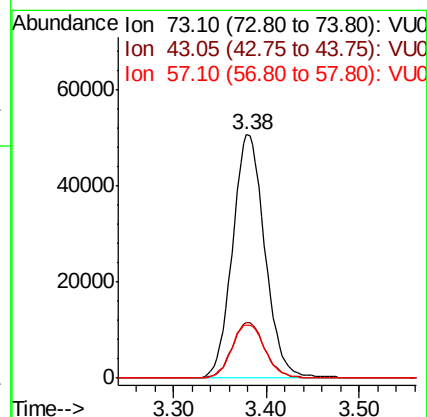
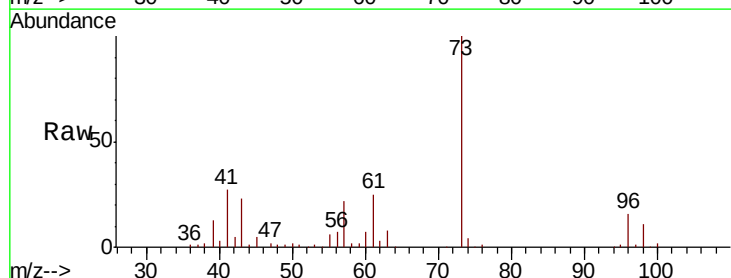
Instrument :  
MSVOA\_U  
ClientSampleId :  
H4419

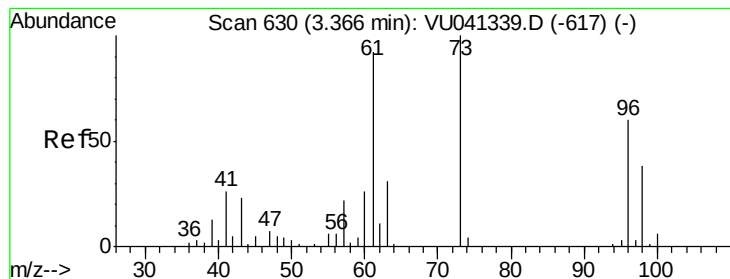
Tot Ion: 76 Resp: 1312  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.5 11.3#



#17  
Methyl tert-butyl Ether  
Concen: 11.988 ug/L  
RT: 3.38 min Scan# 634  
Delta R.T. 0.00 min  
Lab File: VU041353.D  
Acq: 19 Nov 2020 19:12

Tgt Ion: 73 Resp: 122494  
Ion Ratio Lower Upper  
73 100  
43 23.1 18.5 27.7  
57 22.6 18.4 27.6





#18

trans-1,2-Dichloroethene

Concen: 6.033 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU041353.D

Acq: 19 Nov 2020 19:12

Instrument :

MSVOA\_U

ClientSampleId :

H4419

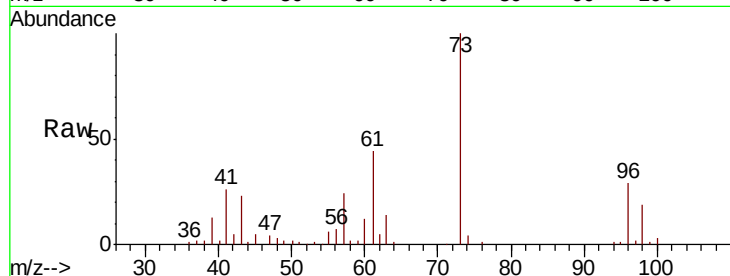
Tot Ion: 96 Resp: 21932

Ion Ratio Lower Upper

96 100

61 153.9 110.9 205.9

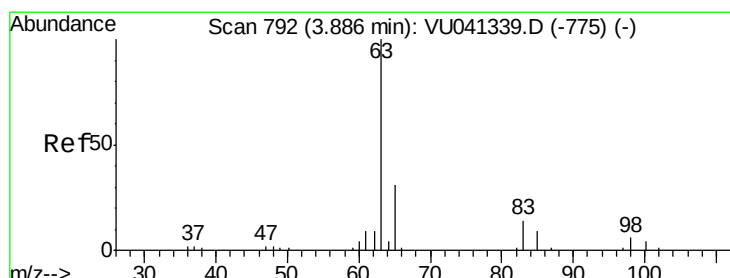
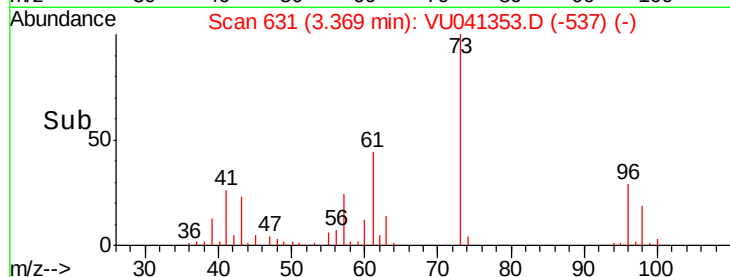
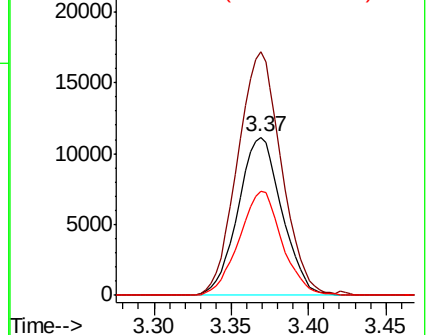
98 66.1 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0



#19

1,1-Dichloroethane

Concen: 0.901 ug/L

RT: 3.88 min Scan# 791

Delta R.T. -0.00 min

Lab File: VU041353.D

Acq: 19 Nov 2020 19:12

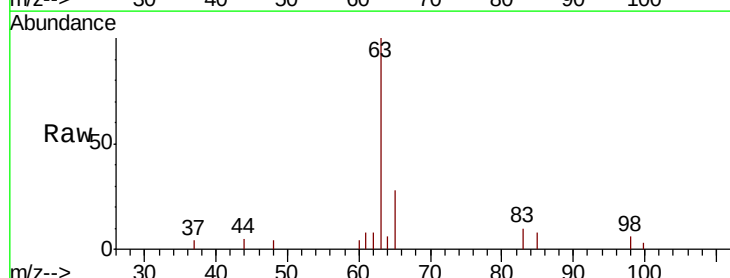
Tgt Ion: 63 Resp: 7320

Ion Ratio Lower Upper

63 100

65 27.5 21.3 39.6

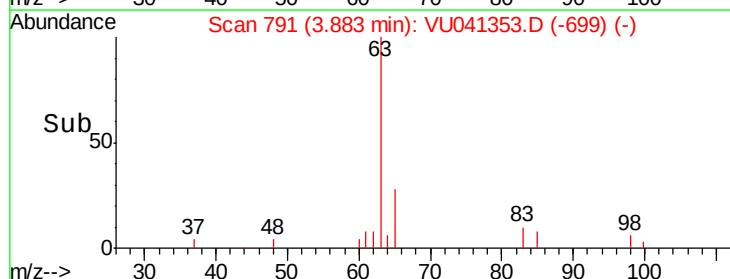
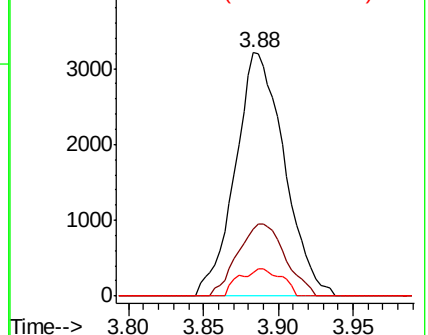
83 9.7 8.8 16.3

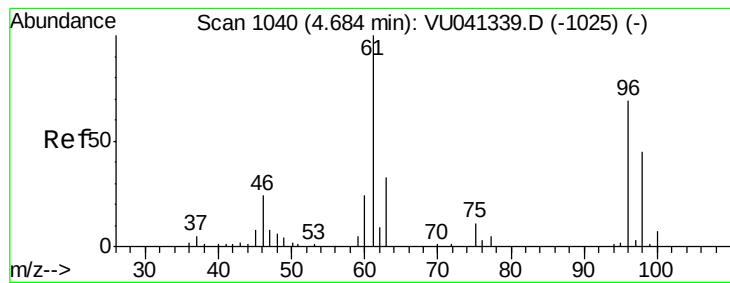


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 1.388 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041353.D

Acq: 19 Nov 2020 19:12

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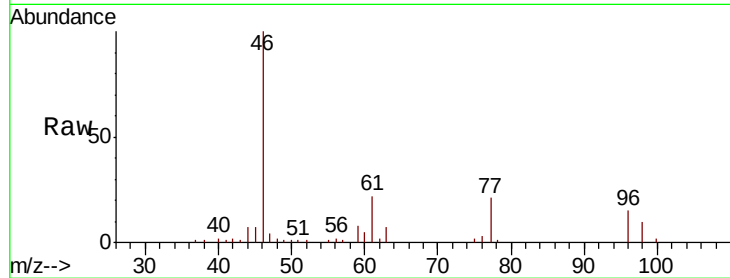
Tot Ion: 96 Resp: 5697

Ion Ratio Lower Upper

96 100

61 147.2 97.2 180.4

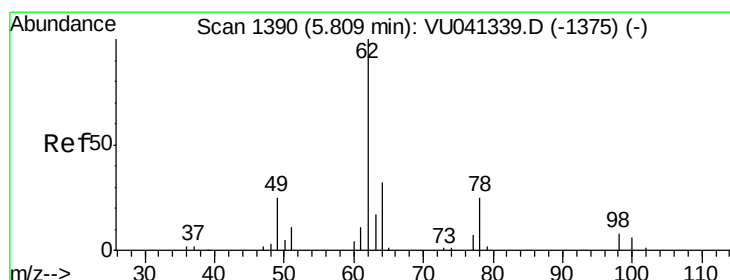
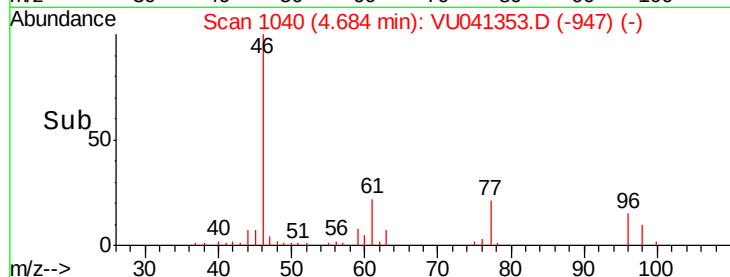
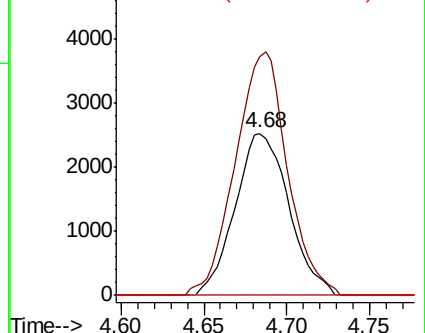
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#27

1,2-Dichloroethane

Concen: 0.036 ug/L

RT: 5.75 min Scan# 1371

Delta R.T. -0.06 min

Lab File: VU041353.D

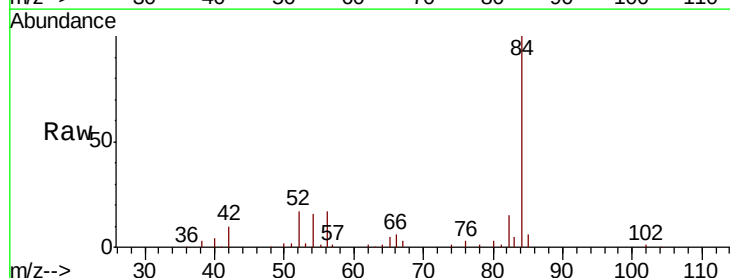
Acq: 19 Nov 2020 19:12

Tgt Ion: 62 Resp: 225

Ion Ratio Lower Upper

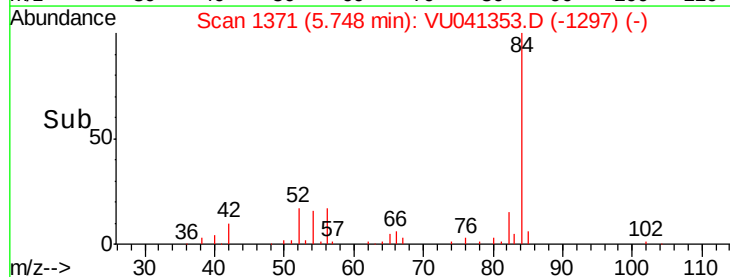
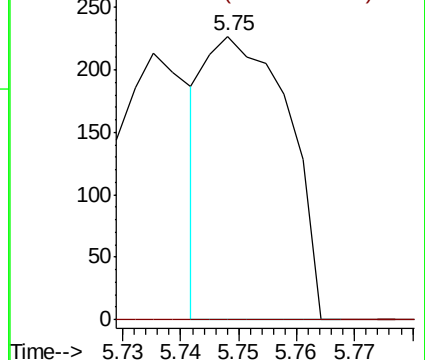
62 100

98 0.0 7.6 11.4#

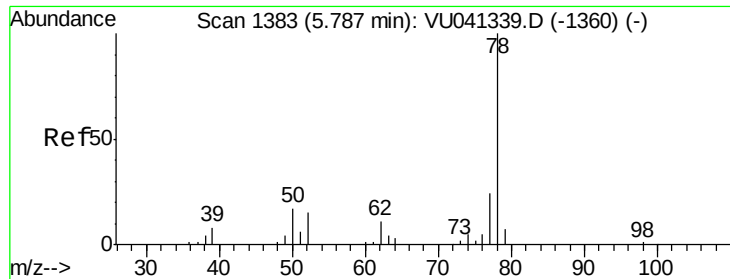


Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0



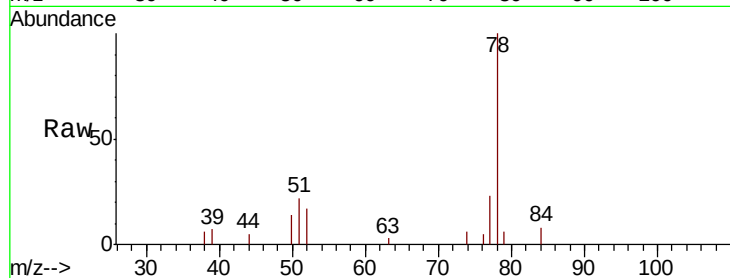




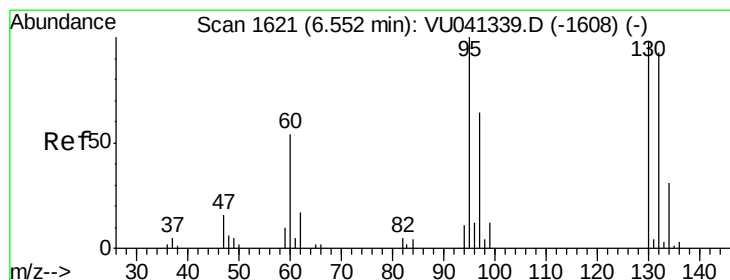
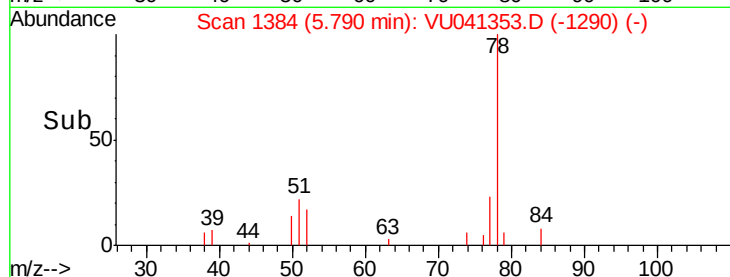
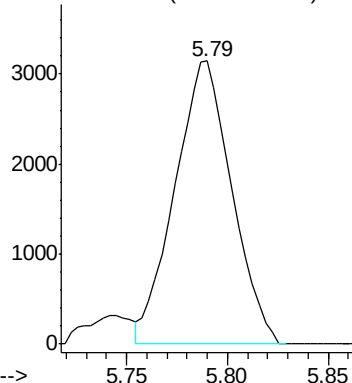
#33  
Benzene  
Concen: 0.386 ug/L  
RT: 5.79 min Scan# 1384  
Delta R.T. 0.00 min  
Lab File: VU041353.D  
Acq: 19 Nov 2020 19:12

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4419

Tgt Ion: 78 Resp: 6193



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34  
Trichloroethene  
Concen: 0.071 ug/L  
RT: 6.55 min Scan# 1620  
Delta R.T. -0.00 min  
Lab File: VU041353.D  
Acq: 19 Nov 2020 19:12

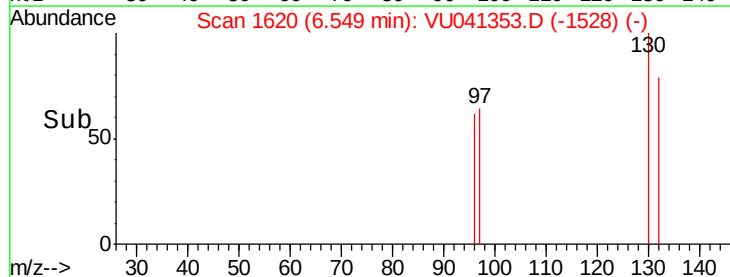
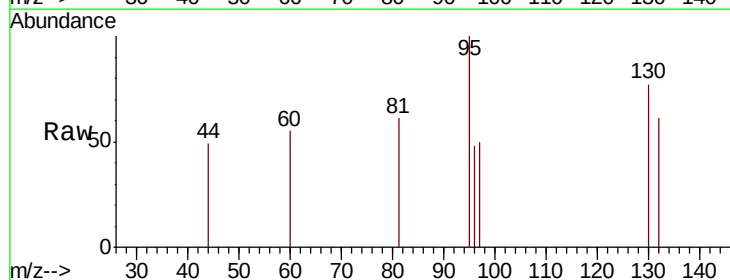
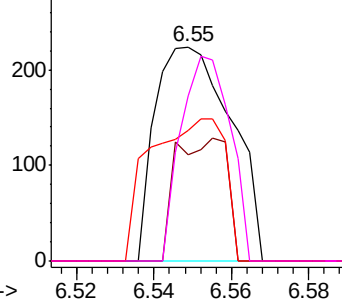
Tgt Ion: 95 Resp: 307  
Ion Ratio Lower Upper  
95 100  
97 49.6 45.6 84.6  
132 60.7 64.8 120.4#  
130 77.2 64.8 120.4

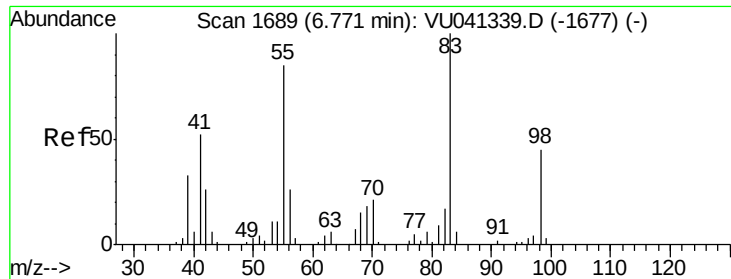
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

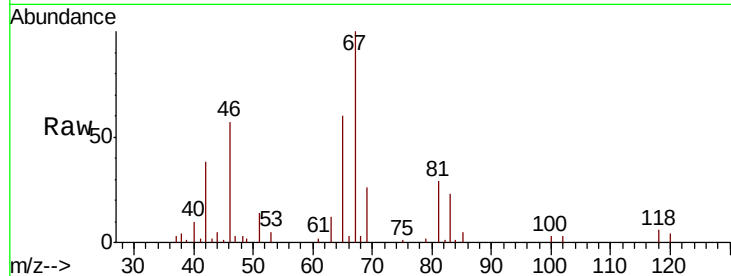




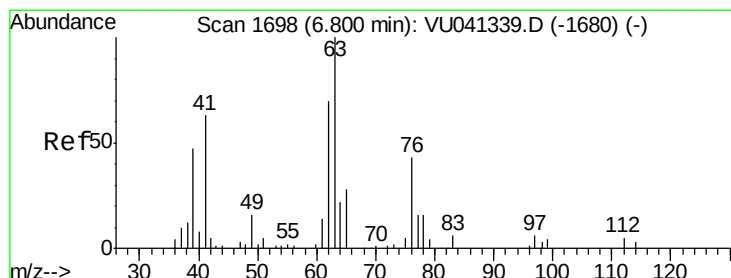
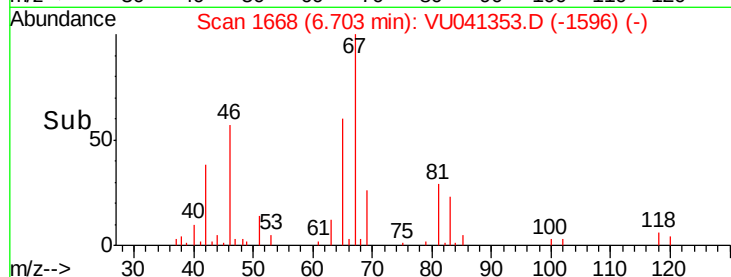
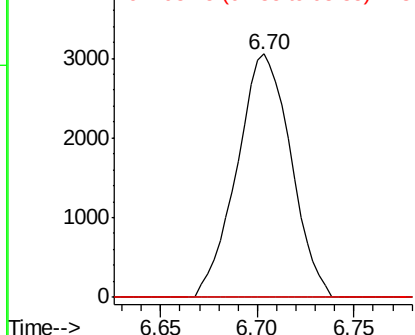
#35  
Methylvlcyclohexane  
Concen: 1.026 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.07 min  
Lab File: VU041353.D  
Acq: 19 Nov 2020 19:12

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4419

Tot Ion: 83 Resp: 5907  
Ion Ratio Lower Upper  
83 100  
55 0.0 72.0 108.0#  
98 0.0 36.6 55.0#

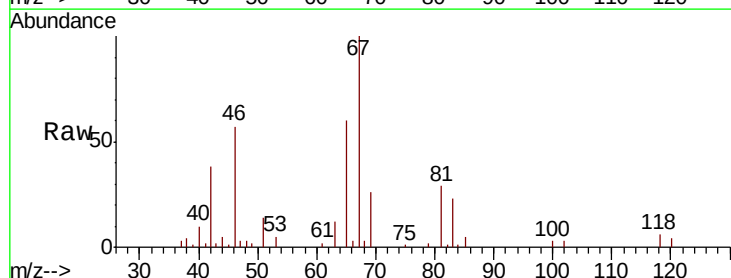


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

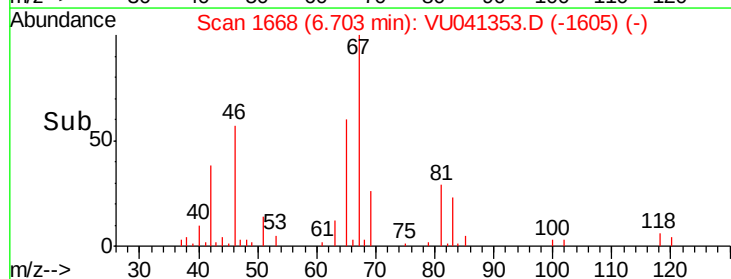
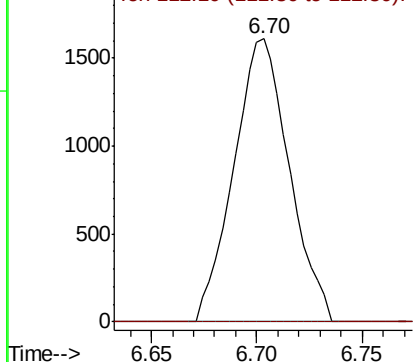


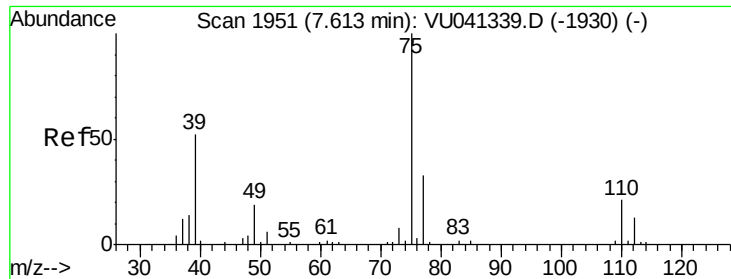
#37  
1,2-Dichloropropane  
Concen: 0.628 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.10 min  
Lab File: VU041353.D  
Acq: 19 Nov 2020 19:12

Tgt Ion: 63 Resp: 2943  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.6 5.4#



Abundance Ion 63.10 (62.80 to 63.80): VU0  
Ion 112.10 (111.80 to 112.80): V

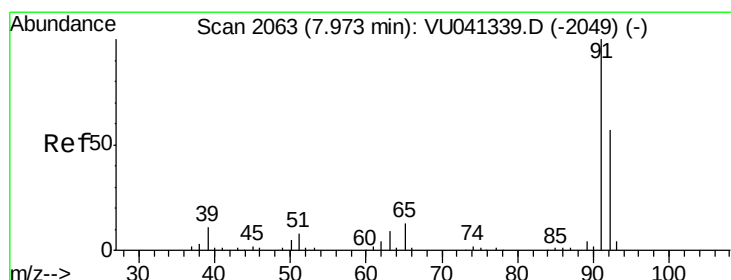
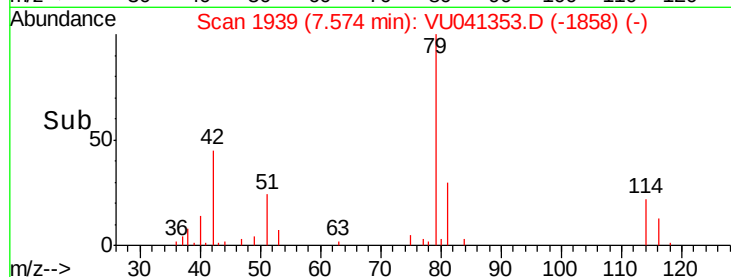
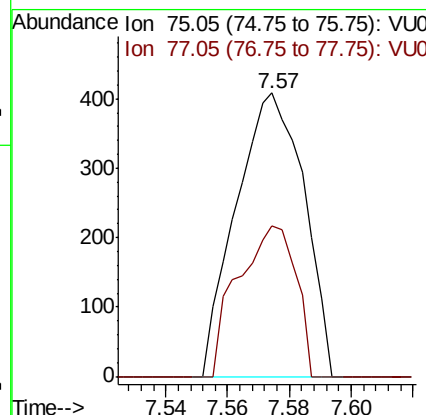
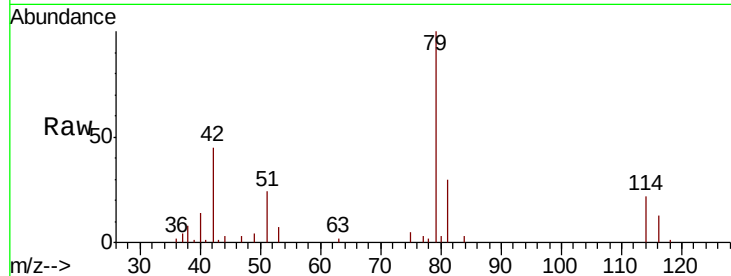




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.095 ug/L  
 RT: 7.57 min Scan# 1939  
 Delta R.T. -0.04 min  
 Lab File: VU041353.D  
 Acq: 19 Nov 2020 19:12

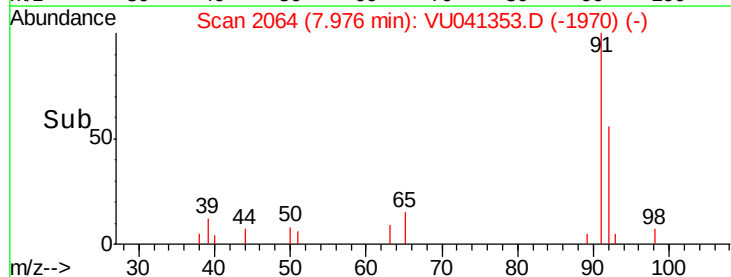
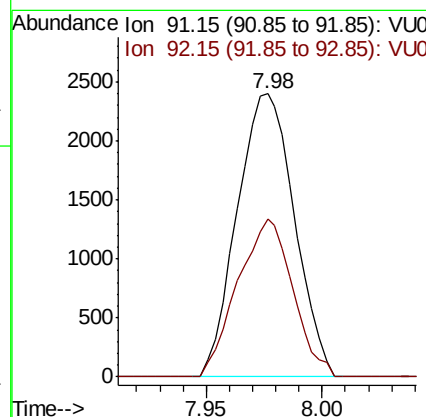
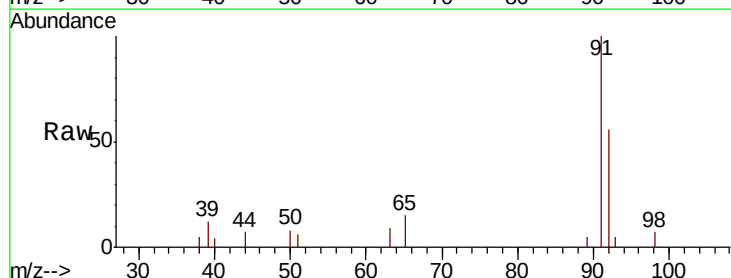
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4419

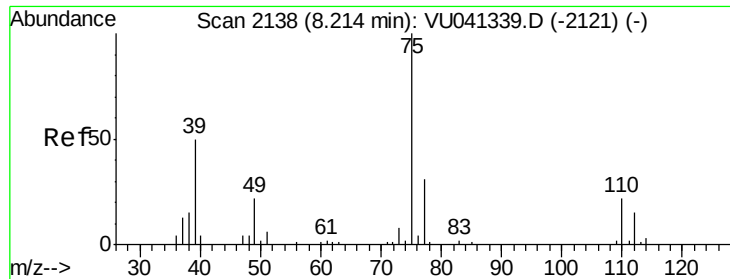
Tot Ion: 75 Resp: 623  
 Ion Ratio Lower Upper  
 75 100  
 77 53.2 22.7 42.3#



#42  
 Toluene  
 Concen: 0.240 ug/L  
 RT: 7.98 min Scan# 2064  
 Delta R.T. 0.00 min  
 Lab File: VU041353.D  
 Acq: 19 Nov 2020 19:12

Tgt Ion: 91 Resp: 4108  
 Ion Ratio Lower Upper  
 91 100  
 92 56.0 40.6 75.4





#44

trans-1,3-Dichloropropene

Concen: 0.070 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU041353.D

Acq: 19 Nov 2020 19:12

Instrument :

MSVOA\_U

ClientSampleId :

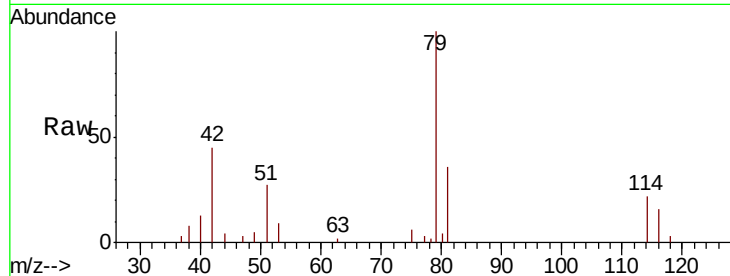
H4419

Tot Ion: 75 Resp: 436

Ion Ratio Lower Upper

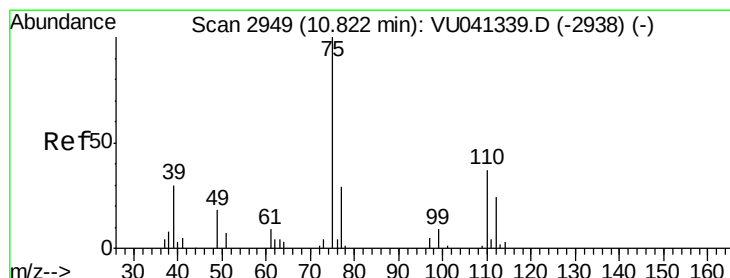
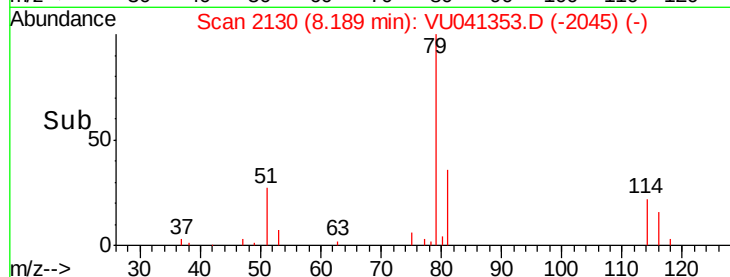
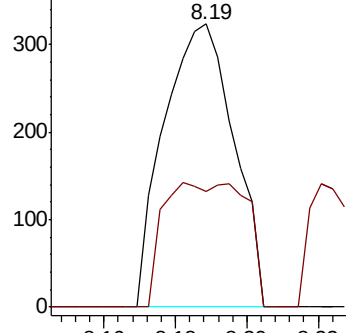
75 100

77 40.9 23.3 43.3



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#59

1,2,3-Trichloropropane

Concen: 0.867 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041353.D

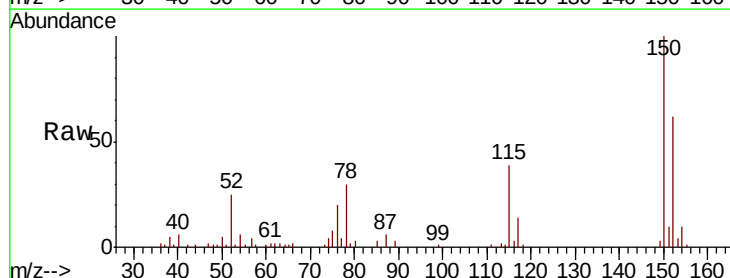
Acq: 19 Nov 2020 19:12

Tgt Ion: 75 Resp: 3204

Ion Ratio Lower Upper

75 100

77 38.9 25.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

