

Data File : VU028219.D  
Acq On : 17 Nov 2018 12:09  
Operator : MD/SY  
Sample : VSTD00115  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00115

Quant Time: Nov 19 01:16:44 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111718WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon Nov 19 01:13:46 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 166003   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 157280   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 69510    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.40  | 65  | 12078 | 0.97  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.68  | 69  | 10499 | 0.97  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.28  | 63  | 24514 | 0.99  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 4.21  | 46  | 42336 | 10.13 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.66  | 84  | 22591 | 0.97  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.31  | 65  | 12993 | 1.01  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.34  | 84  | 43444 | 0.96  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.34  | 67  | 15589 | 0.95  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.57  | 98  | 38754 | 0.96  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.85  | 79  | 4671  | 0.89  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.32  | 63  | 28844 | 9.16  | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43 | 84  | 11375 | 0.96  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.86 | 152 | 12820 | 0.99  | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 14884  | 1.068 ug/L   | 95     |
| 3) Chloromethane               | 1.33 | 50  | 18878  | 1.064 ug/L   | 94     |
| 5) Vinyl chloride              | 1.40 | 62  | 17514  | 1.039 ug/L # | 83     |
| 6) Bromomethane                | 1.63 | 94  | 7811   | 1.027 ug/L   | 99     |
| 8) Chloroethane                | 1.70 | 64  | 10745  | 1.079 ug/L   | 99     |
| 9) Trichlorofluoromethane      | 1.89 | 101 | 20353  | 1.037 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.30 | 101 | 10886  | 1.008 ug/L   | 98     |
| 12) 1,1-Dichloroethene         | 2.29 | 96  | 10868  | 1.063 ug/L   | 99     |
| 13) Acetone                    | 2.34 | 43  | 31905  | 11.097 ug/L  | 100    |
| 14) Carbon disulfide           | 2.48 | 76  | 33721  | 1.051 ug/L   | 100    |
| 15) Methyl Acetate             | 2.62 | 43  | 8647   | 1.135 ug/L   | 96     |
| 16) Methylene chloride         | 2.70 | 84  | 14492  | 1.125 ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 3.01 | 73  | 33801  | 1.101 ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 2.98 | 96  | 11720  | 1.077 ug/L   | 95     |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 27440  | 1.087 ug/L   | 96     |
| 21) 2-Butanone                 | 4.29 | 43  | 49207  | 10.748 ug/L  | 97     |
| 22) cis-1,2-Dichloroethene     | 4.23 | 96  | 13610  | 1.058 ug/L   | 87     |
| 23) Bromochloromethane         | 4.56 | 128 | 5426   | 1.078 ug/L   | 91     |
| 25) Chloroform                 | 4.68 | 83  | 30636  | 1.121 ug/L   | 99     |
| 27) 1,2-Dichloroethane         | 5.41 | 62  | 17130  | 1.097 ug/L   | 96     |
| 29) 1,1,1-Trichloroethane      | 4.91 | 97  | 19251  | 1.086 ug/L   | 97     |
| 30) Cyclohexane                | 4.99 | 56  | 23683  | 1.021 ug/L   | 99     |
| 31) Carbon tetrachloride       | 5.13 | 117 | 15450  | 1.062 ug/L   | 96     |
| 33) Benzene                    | 5.39 | 78  | 55948  | 1.078 ug/L   | 100    |
| 34) Trichloroethene            | 6.19 | 95  | 12837  | 1.010 ug/L   | 94     |
| 35) Methylcyclohexane          | 6.42 | 83  | 18938  | 0.946 ug/L   | 92     |
| 37) 1,2-Dichloropropane        | 6.44 | 63  | 16003  | 1.081 ug/L # | 95     |
| 38) Bromodichloromethane       | 6.76 | 83  | 17337  | 1.074 ug/L   | 98     |
| 39) cis-1,3-Dichloropropene    | 7.27 | 75  | 18385  | 0.980 ug/L   | 100    |
| 40) 4-Methyl-2-pentanone       | 7.47 | 43  | 113573 | 10.728 ug/L  | 98     |

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Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00115

Quant Time: Nov 19 01:16:44 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111718WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon Nov 19 01:13:46 2018  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 42) Toluene                    | 7.64  | 91   | 54227    | 1.031  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 13474    | 0.954  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 10144    | 1.134  | ug/L   | 94       |
| 47) Tetrachloroethene          | 8.23  | 164  | 9363     | 1.062  | ug/L   | 98       |
| 48) 2-Hexanone                 | 8.37  | 43   | 81880    | 10.848 | ug/L   | 96       |
| 49) Dibromochloromethane       | 8.48  | 129  | 9226     | 1.019  | ug/L   | 97       |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 8336     | 1.031  | ug/L   | 98       |
| 51) Chlorobenzene              | 9.12  | 112  | 31957    | 1.055  | ug/L   | 94       |
| 52) Ethylbenzene               | 9.25  | 91   | 57344    | 1.013  | ug/L   | 95       |
| 53) m,p-xylene                 | 9.38  | 106  | 19496    | 0.993  | ug/L   | 93       |
| 54) o-xylene                   | 9.78  | 106  | 19308    | 0.984  | ug/L   | 96       |
| 55) Styrene                    | 9.79  | 104  | 32802    | 0.996  | ug/L   | 97       |
| 56) Isopropylbenzene           | 10.17 | 105  | 52468    | 0.999  | ug/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 12831    | 1.116  | ug/L # | 92       |
| 59) 1,2,3-Trichloropropane     | 10.50 | 75   | 9163     | 1.071  | ug/L   | 98       |
| 61) Bromoform                  | 9.96  | 173  | 4769     | 1.082  | ug/L   | 94       |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 22547    | 1.066  | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 22932    | 1.063  | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 22310    | 1.076  | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 1821     | 1.127  | ug/L # | 86       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 16560    | 1.023  | ug/L   | 95       |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 13055    | 0.966  | ug/L   | 93       |
| 69) Naphthalene                | 13.75 | 128  | 21910    | 0.912  | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 12905    | 1.008  | ug/L   | 99       |

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

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```
ALS Vial      : 3      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
VSTD00115

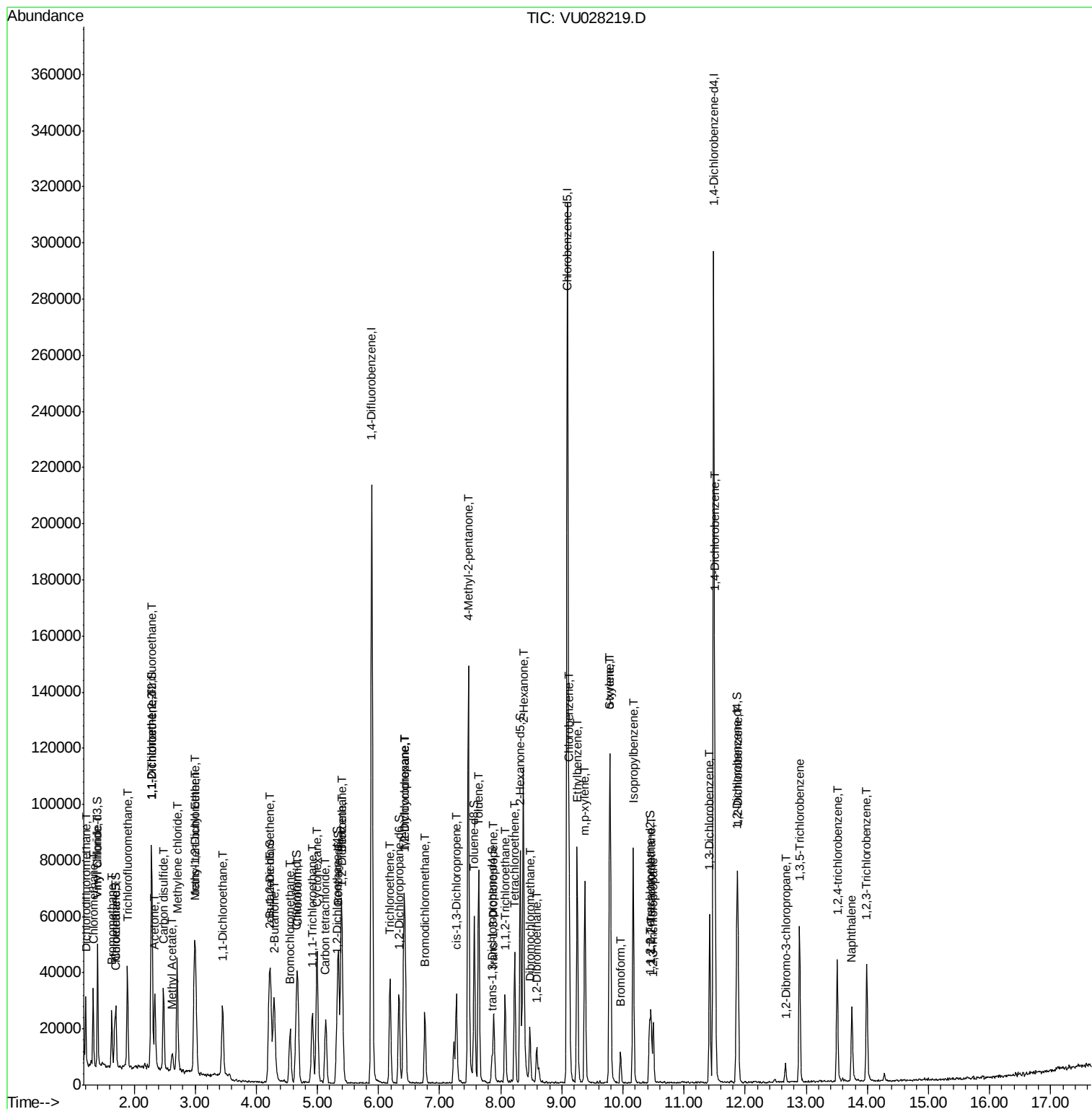
Quant Time: Nov 19 01:16:44 2018

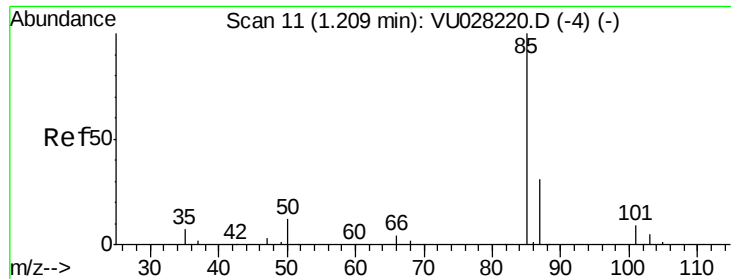
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_U\METHOD\SOMUTR111718WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Mon Nov 19 01:13:46 2018

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.068 ug/L

RT: 1.21 min Scan# 11

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

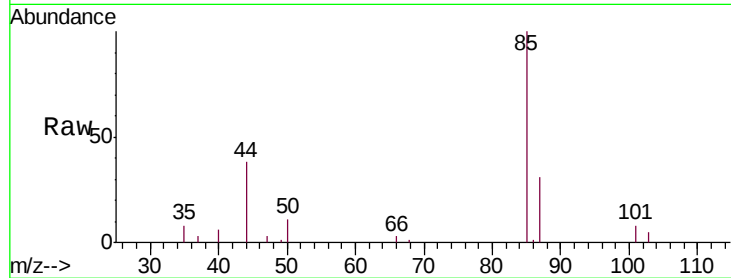
VSTD00115

Tgt Ion: 85 Resp: 14884

Ion Ratio Lower Upper

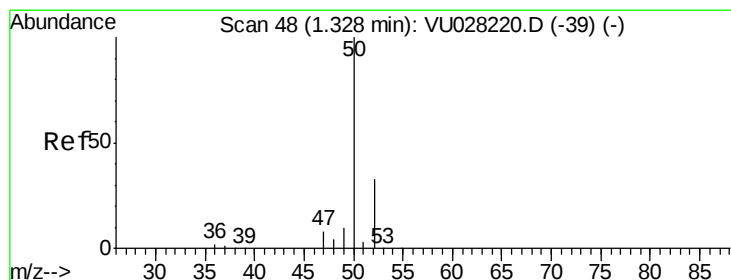
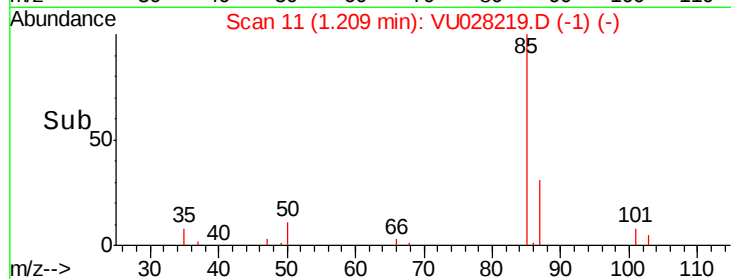
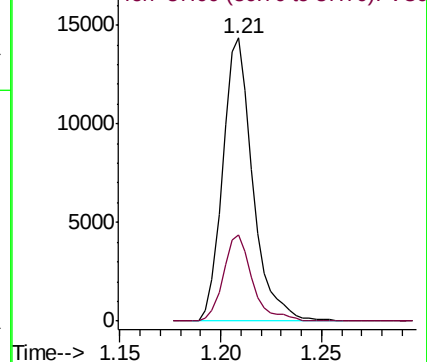
85 100

87 29.4 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 1.064 ug/L

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028219.D

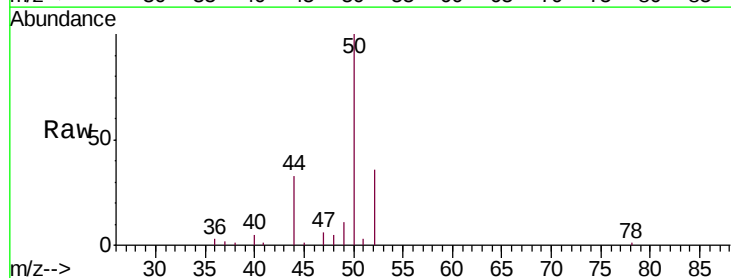
Acq: 17 Nov 2018 12:09

Tgt Ion: 50 Resp: 18878

Ion Ratio Lower Upper

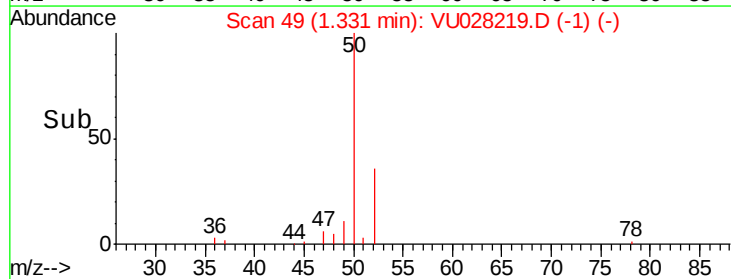
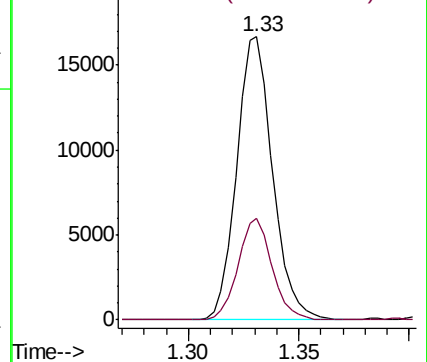
50 100

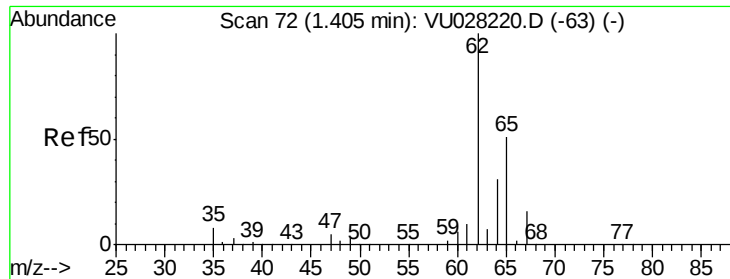
52 35.9 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 1.039 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampled :

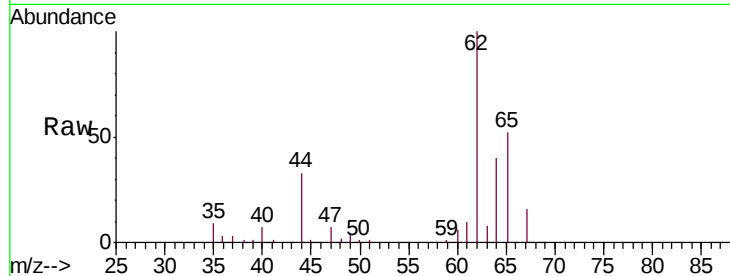
VSTD00115

Tgt Ion: 62 Resp: 17514

Ion Ratio Lower Upper

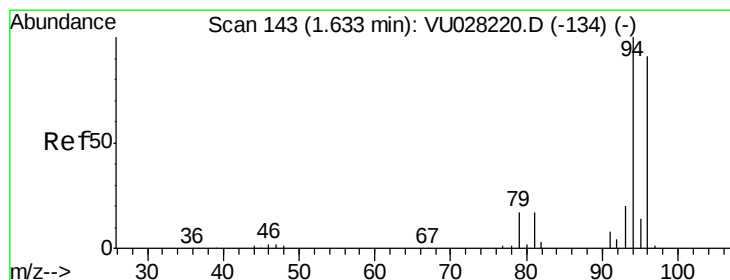
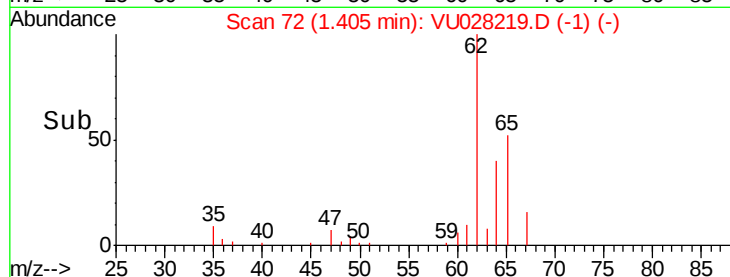
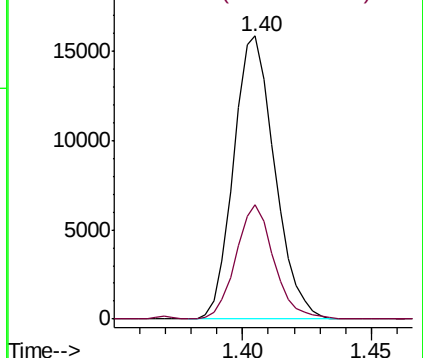
62 100

64 40.4 21.7 40.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 1.027 ug/L

RT: 1.63 min Scan# 143

Delta R.T. -0.00 min

Lab File: VU028219.D

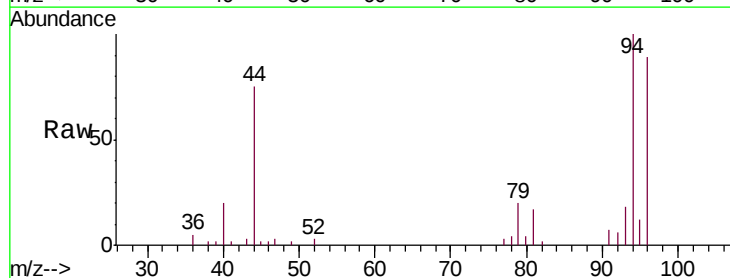
Acq: 17 Nov 2018 12:09

Tgt Ion: 94 Resp: 7811

Ion Ratio Lower Upper

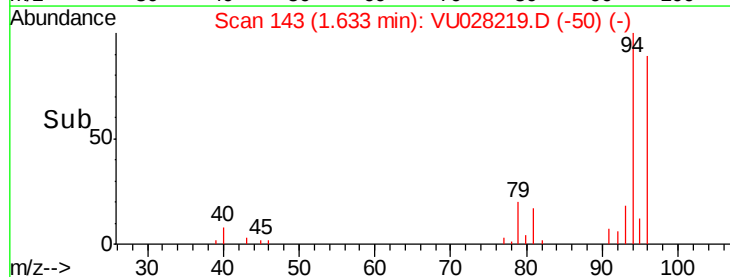
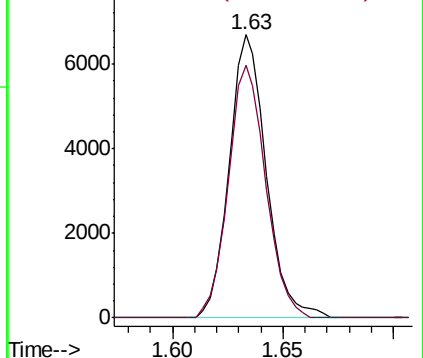
94 100

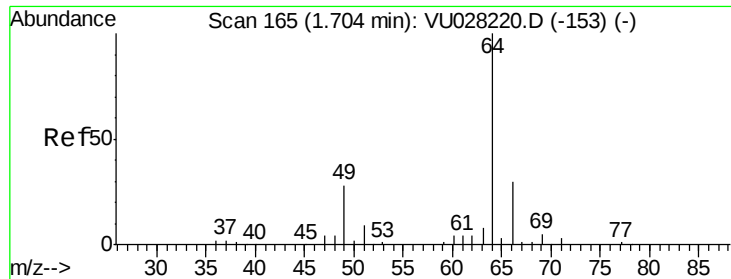
96 89.4 63.6 118.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 1.079 ug/L

RT: 1.70 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

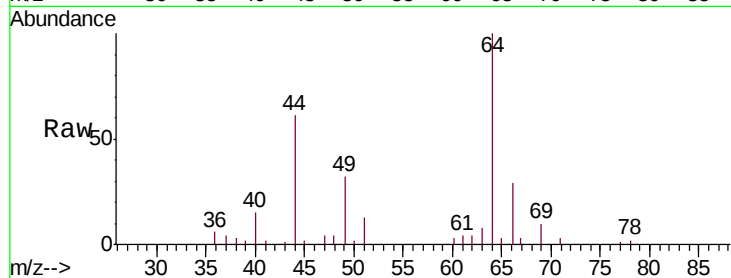
VSTD00115

Tgt Ion: 64 Resp: 10745

Ion Ratio Lower Upper

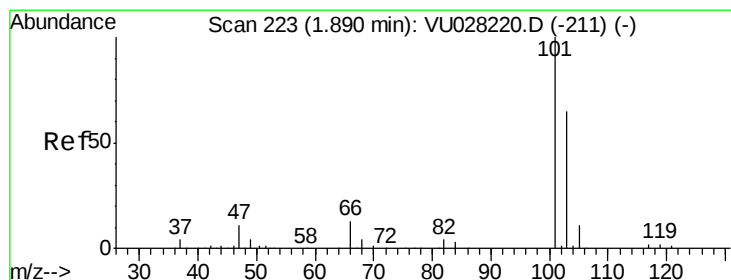
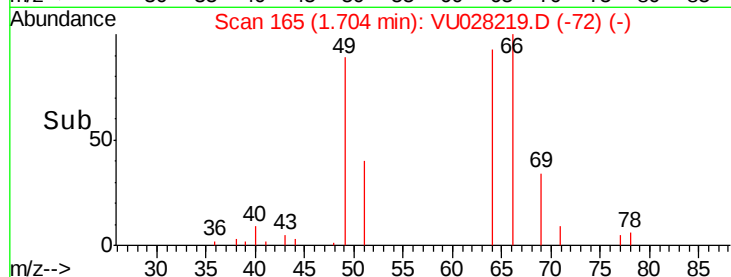
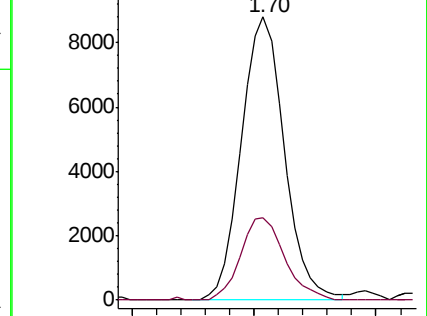
64 100

66 29.2 20.7 38.5



Abundance Ion 64.10 (63.80 to 64.80): VU028220.D (-153) (-)

Ion 66.05 (65.75 to 66.75): VU028220.D (-153) (-)



#9

Trichlorofluoromethane

Concen: 1.037 ug/L

RT: 1.89 min Scan# 223

Delta R.T. -0.00 min

Lab File: VU028219.D

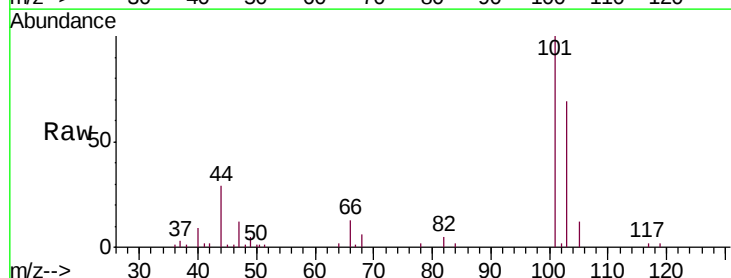
Acq: 17 Nov 2018 12:09

Tgt Ion: 101 Resp: 20353

Ion Ratio Lower Upper

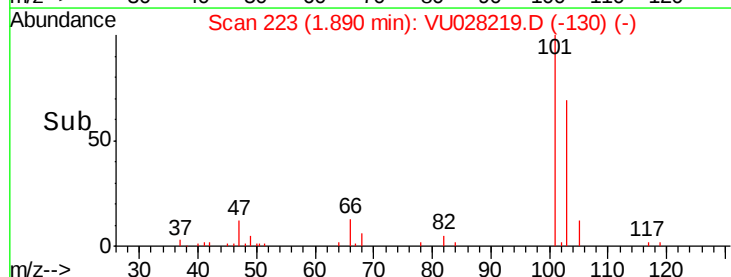
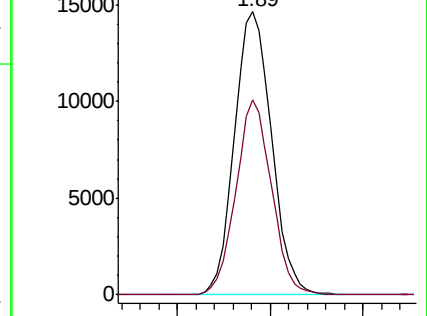
101 100

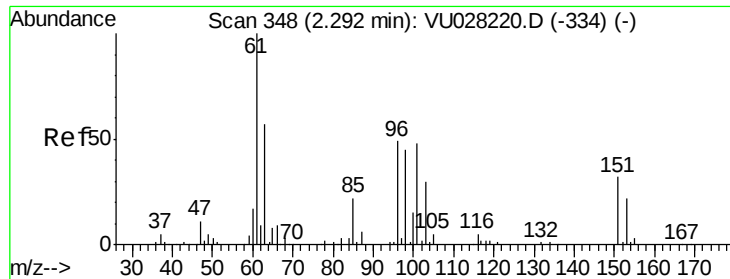
103 66.0 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VU028220.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VU028220.D (-211) (-)





#10

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

Concen: 1.008 ug/L

RT: 2.30 min Scan# 349

Delta R.T. 0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00115

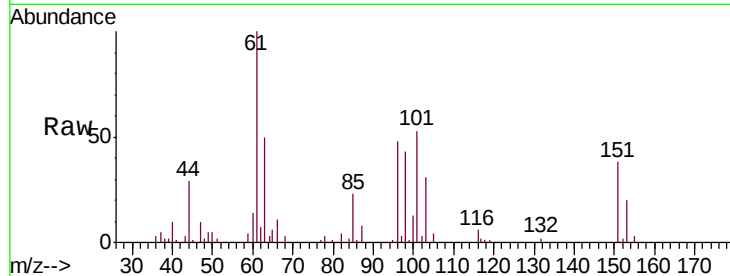
Tgt Ion:101 Resp: 10886

Ion Ratio Lower Upper

101 100

85 47.1 37.4 56.2

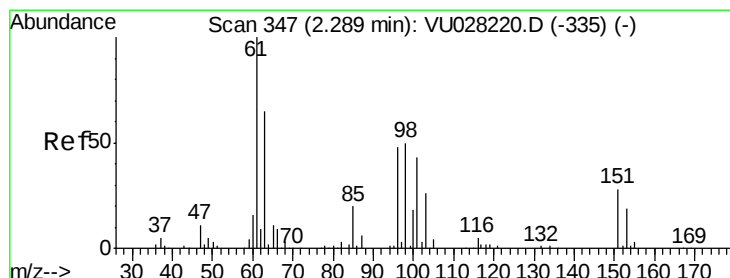
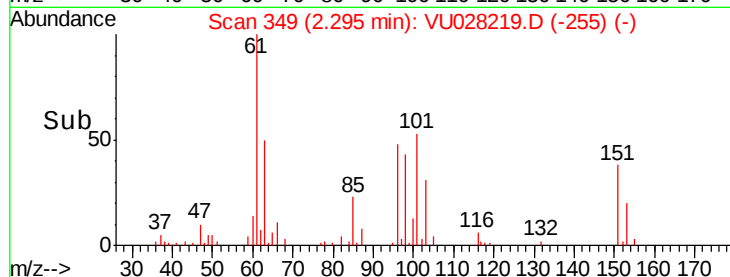
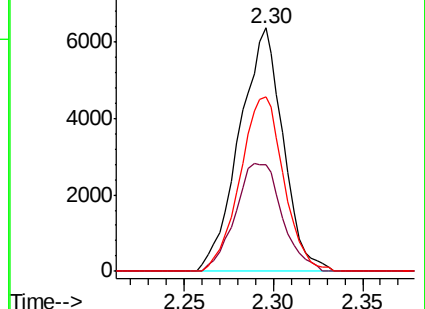
151 71.6 55.0 82.4



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: 1.063 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

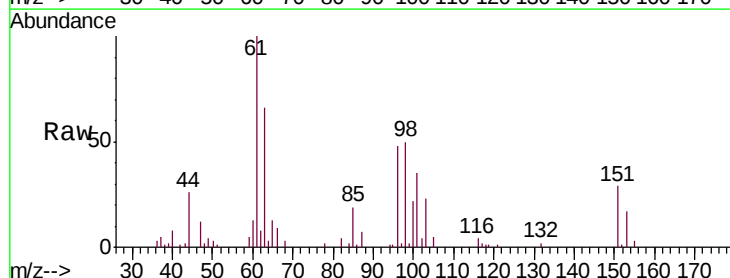
Tgt Ion: 96 Resp: 10868

Ion Ratio Lower Upper

96 100

61 208.3 145.5 270.1

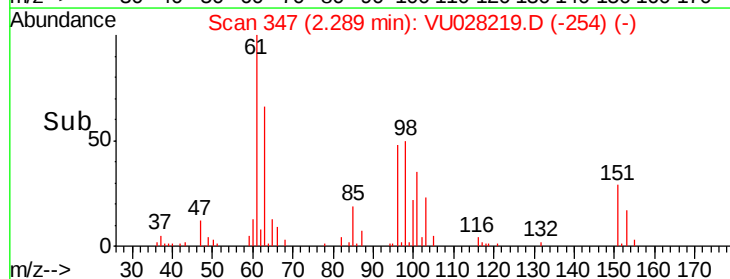
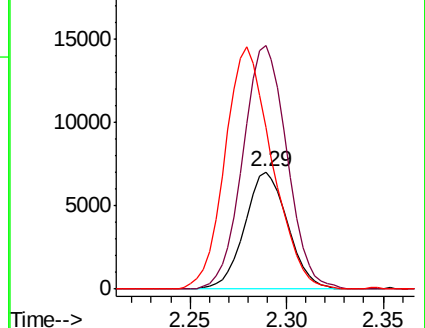
63 138.4 98.6 183.2

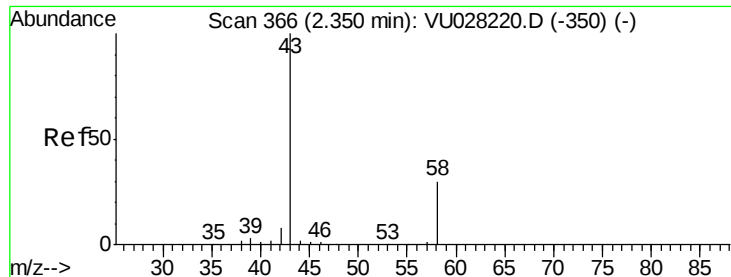


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 11.097 ug/L

RT: 2.34 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

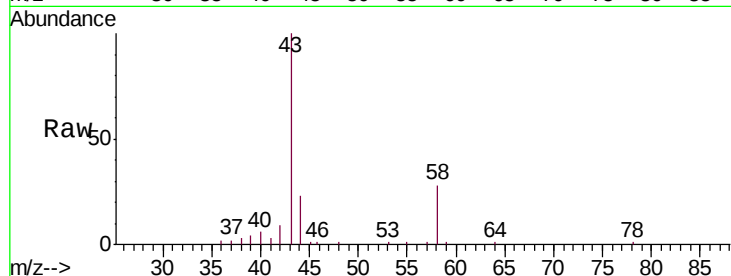
VSTD00115

Tgt Ion: 43 Resp: 31905

Ion Ratio Lower Upper

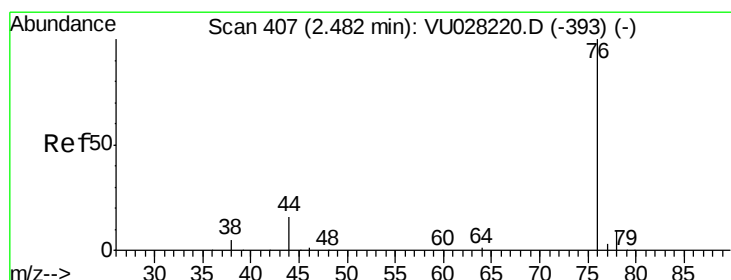
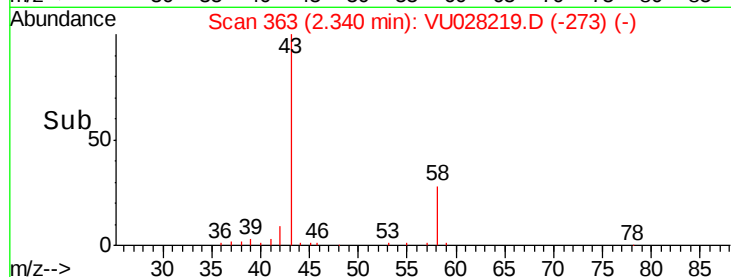
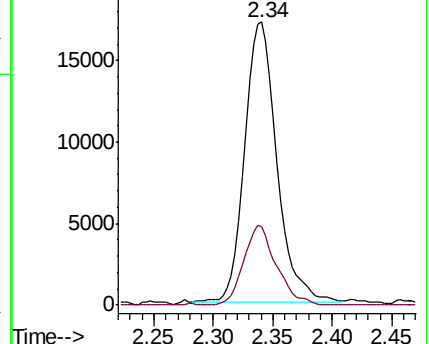
43 100

58 29.3 0.0 58.6



Abundance Ion 43.05 (42.75 to 43.75): VU028219.D (-314) (-)

Ion 58.05 (57.75 to 58.75): VU028219.D (-314) (-)



#14

Carbon disulfide

Concen: 1.051 ug/L

RT: 2.48 min Scan# 407

Delta R.T. -0.00 min

Lab File: VU028219.D

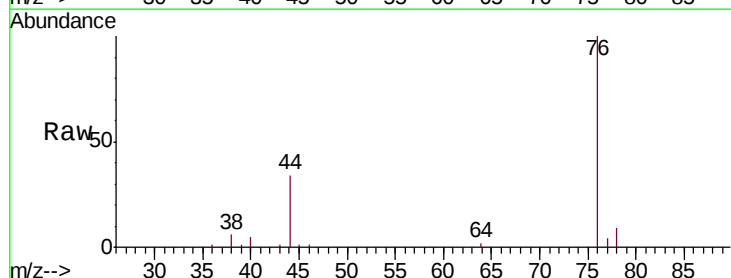
Acq: 17 Nov 2018 12:09

Tgt Ion: 76 Resp: 33721

Ion Ratio Lower Upper

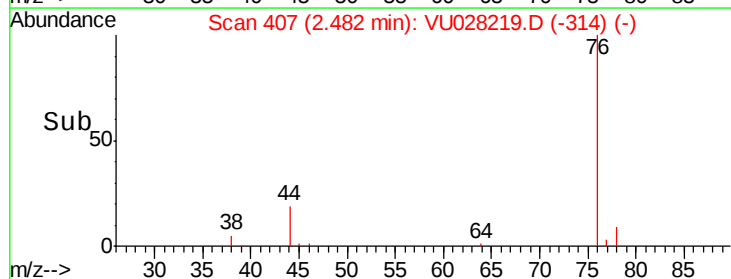
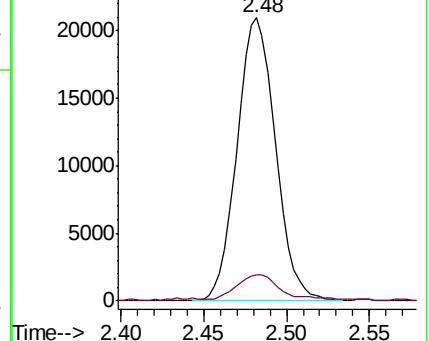
76 100

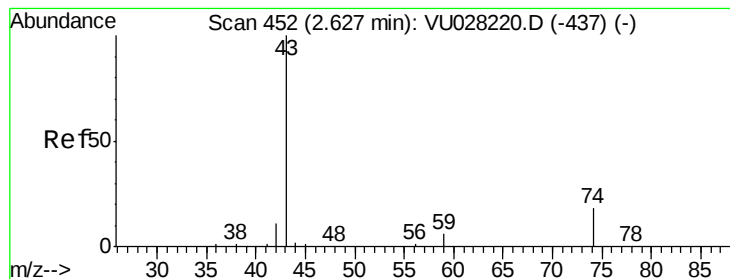
78 9.3 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VU028219.D (-314) (-)

Ion 78.00 (77.70 to 78.70): VU028219.D (-314) (-)





#15

Methyl Acetate

Concen: 1.135 ug/L

RT: 2.62 min Scan# 451

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

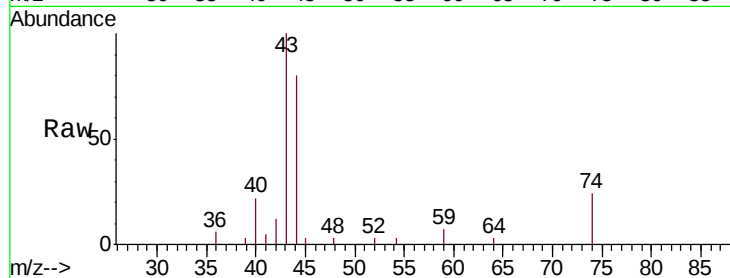
VSTD00115

Tgt Ion: 43 Resp: 8647

Ion Ratio Lower Upper

43 100

74 20.1 14.7 22.1



Abundance Ion 43.05 (42.75 to 43.75): VU028219.D (-359) (-)

Ion 74.05 (73.75 to 74.75): VU028219.D (-359) (-)

2.62

4000

3000

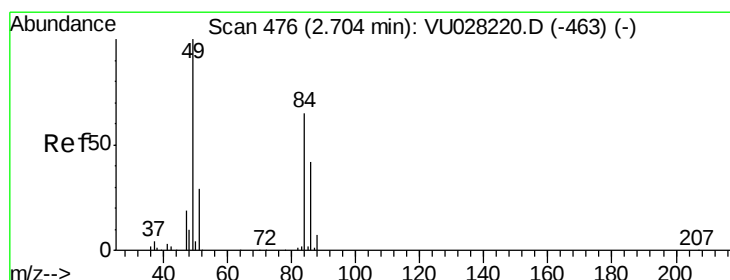
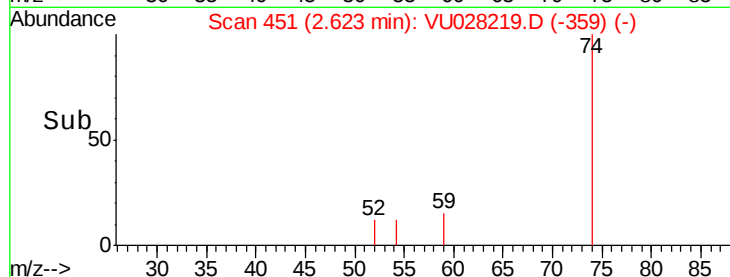
2000

1000

0

Time-->

2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 1.125 ug/L

RT: 2.70 min Scan# 476

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

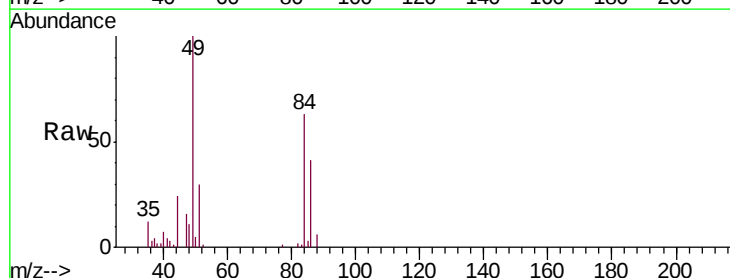
Tgt Ion: 84 Resp: 14492

Ion Ratio Lower Upper

84 100

86 64.8 45.3 84.1

49 158.4 107.9 200.5



Abundance Ion 84.05 (83.75 to 84.75): VU028219.D (-383) (-)

Ion 86.00 (85.70 to 86.70): VU028219.D (-383) (-)

Ion 49.10 (48.80 to 49.80): VU028219.D (-383) (-)

2.70

15000

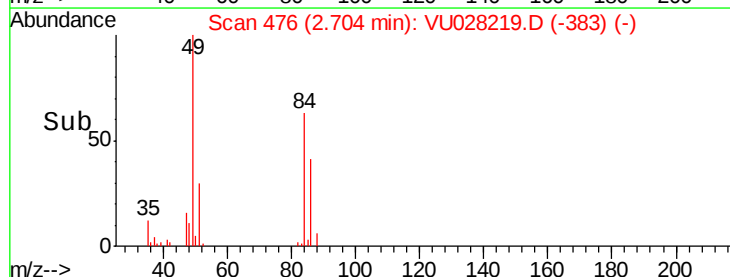
10000

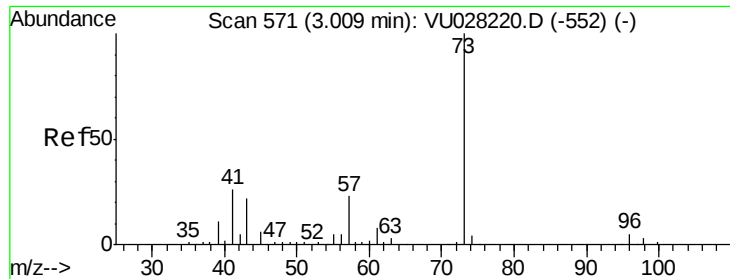
5000

0

Time-->

2.65 2.70 2.75





#17

Methyl tert-butyl Ether

Concen: 1.101 ug/L

RT: 3.01 min Scan# 571

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00115

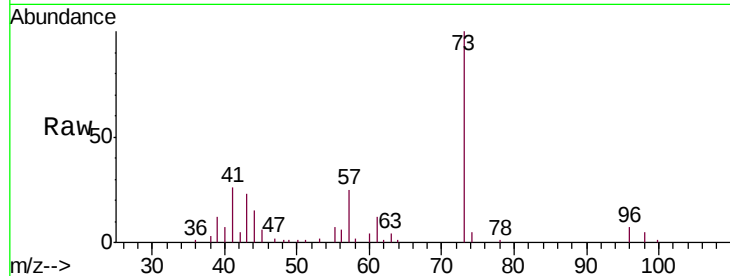
Tgt Ion: 73 Resp: 33801

Ion Ratio Lower Upper

73 100

43 23.6 18.8 28.2

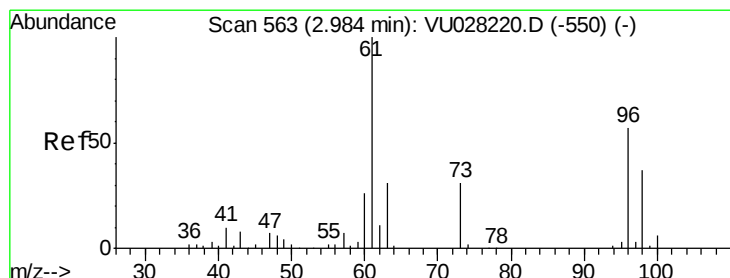
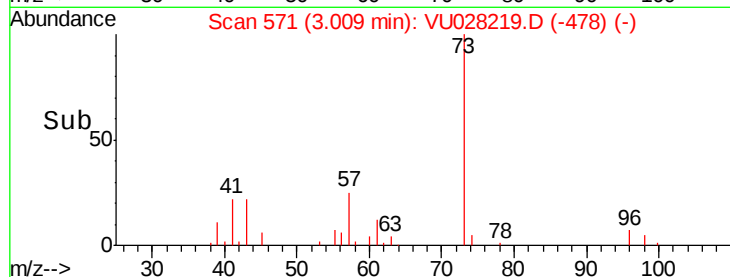
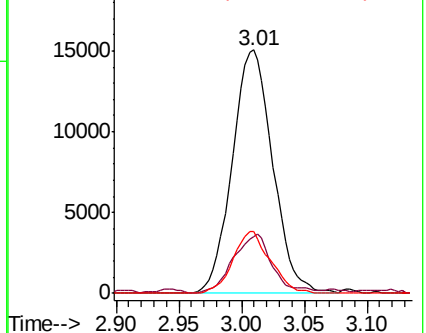
57 23.2 19.2 28.8



Abundance Ion 73.10 (72.80 to 73.80): VU028219.D (-478) (-)

Ion 43.05 (42.75 to 43.75): VU028219.D (-478) (-)

Ion 57.10 (56.80 to 57.80): VU028219.D (-478) (-)



#18

trans-1,2-Dichloroethene

Concen: 1.077 ug/L

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

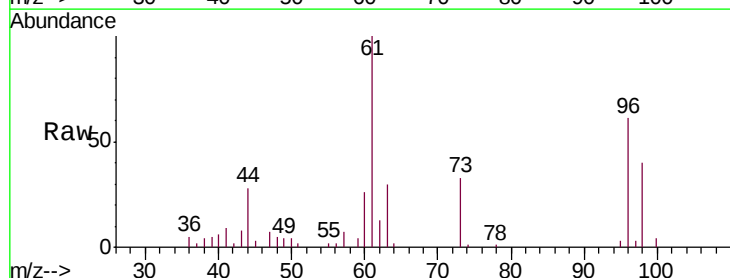
Tgt Ion: 96 Resp: 11720

Ion Ratio Lower Upper

96 100

61 165.3 122.2 227.0

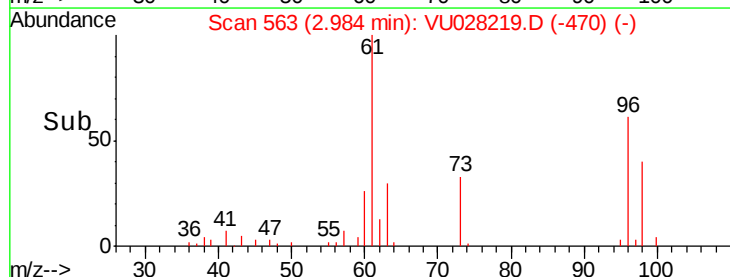
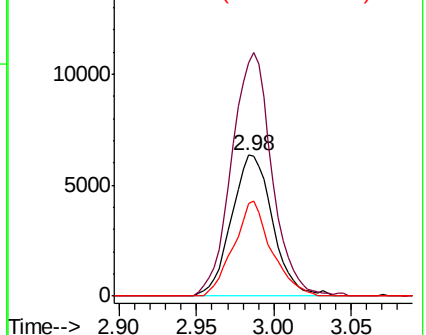
98 65.6 44.9 83.5

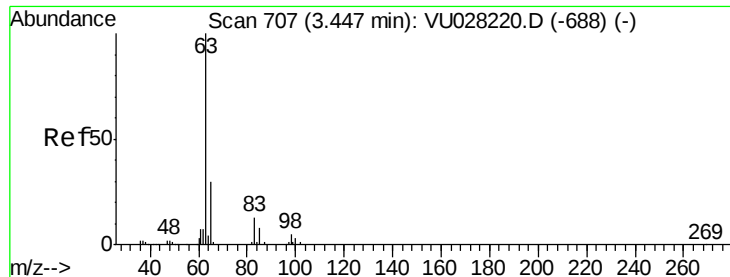


Abundance Ion 96.00 (95.70 to 96.70): VU028219.D (-470) (-)

Ion 61.05 (60.75 to 61.75): VU028219.D (-470) (-)

Ion 97.95 (97.65 to 98.65): VU028219.D (-470) (-)

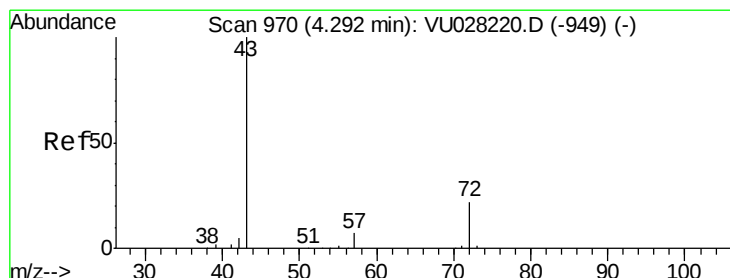
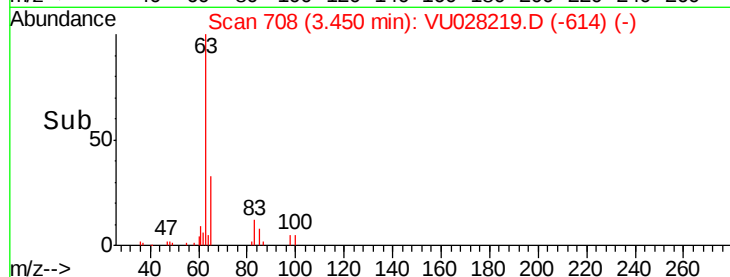
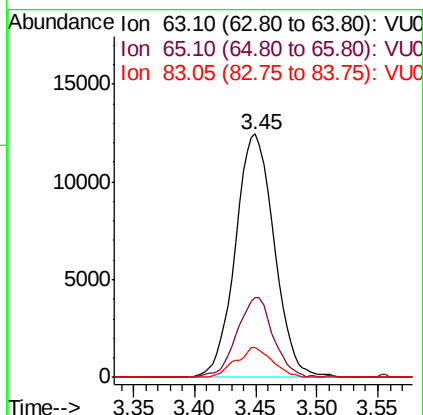
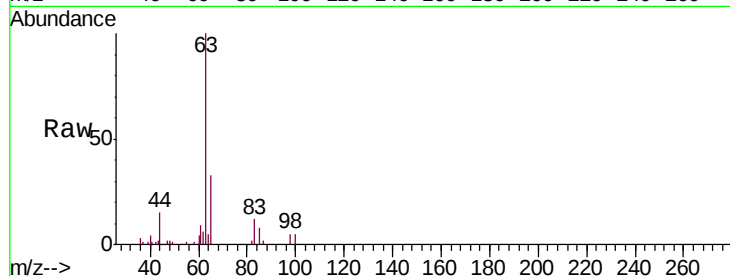




#19  
 1,1-Dichloroethane  
 Concen: 1.087 ug/L  
 RT: 3.45 min Scan# 708  
 Delta R.T. 0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

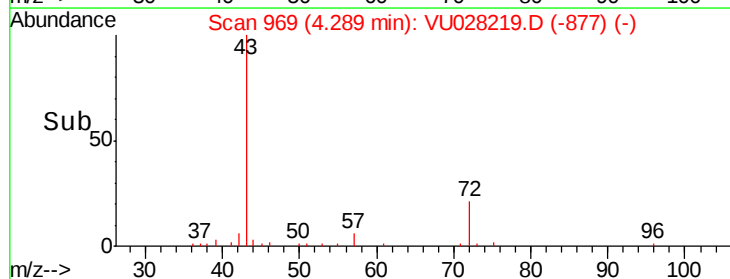
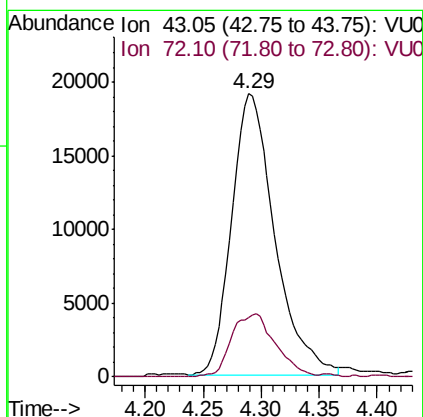
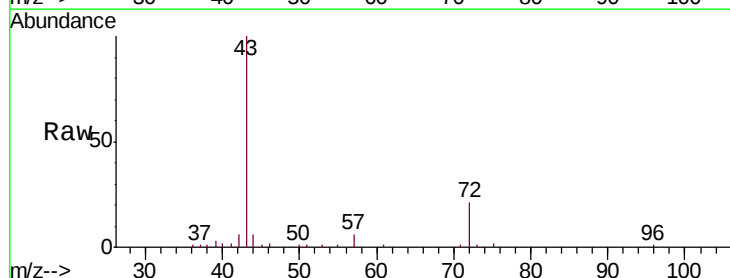
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00115

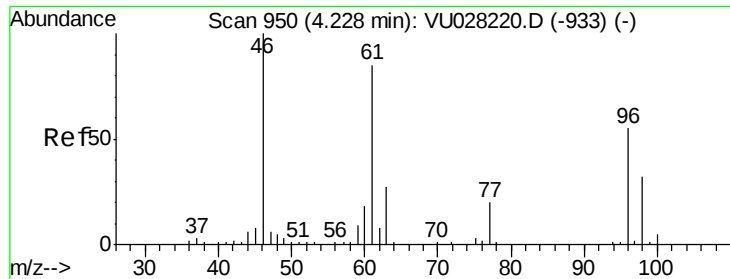
Tgt Ion: 63 Resp: 27440  
 Ion Ratio Lower Upper  
 63 100  
 65 33.0 21.2 39.4  
 83 12.2 8.8 16.4



#21  
 2-Butanone  
 Concen: 10.748 ug/L  
 RT: 4.29 min Scan# 969  
 Delta R.T. -0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

Tgt Ion: 43 Resp: 49207  
 Ion Ratio Lower Upper  
 43 100  
 72 22.9 10.7 32.1



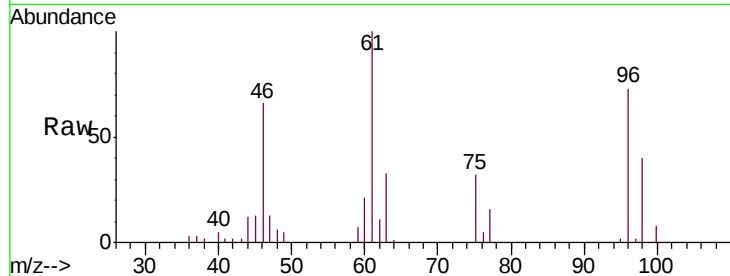


#22

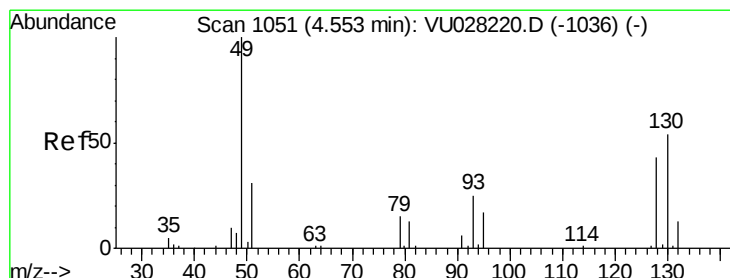
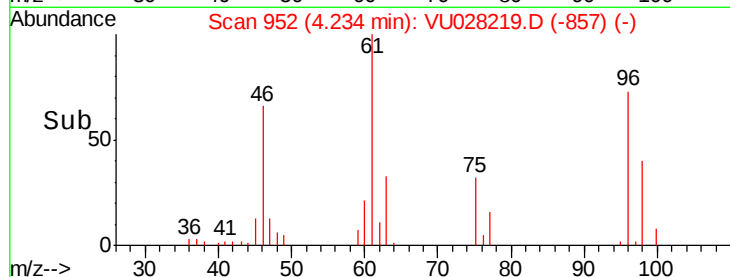
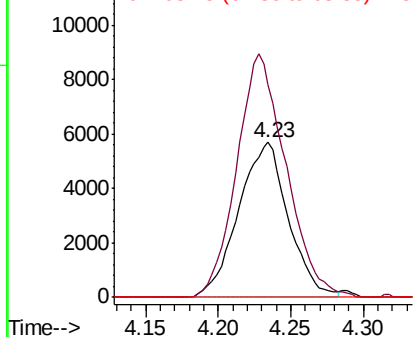
cis-1,2-Dichloroethene  
 Concen: 1.058 ug/L  
 RT: 4.23 min Scan# 952  
 Delta R.T. 0.01 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00115

Tgt Ion: 96 Resp: 13610  
 Ion Ratio Lower Upper  
 96 100  
 61 137.8 108.0 200.6  
 68 0.0 0.0 0.0



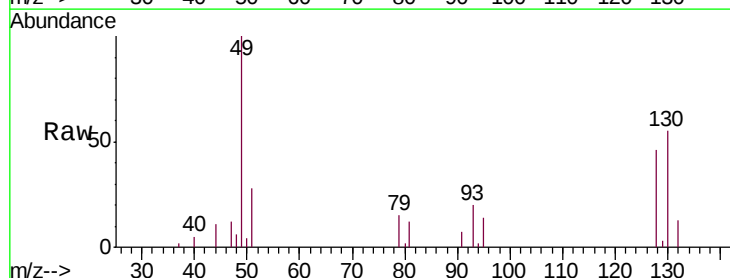
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0



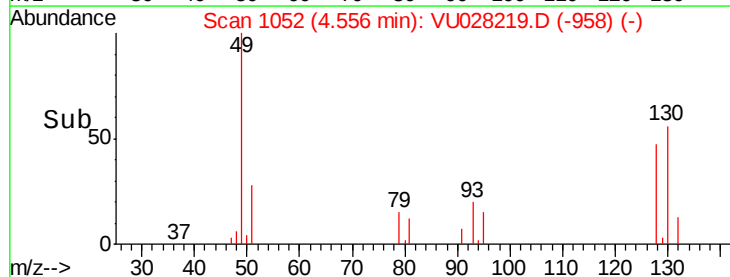
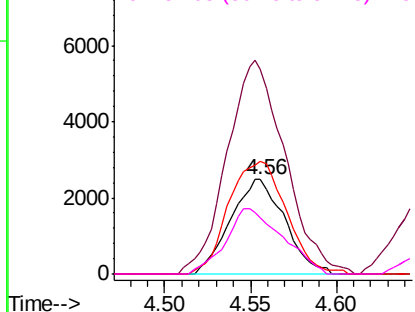
#23

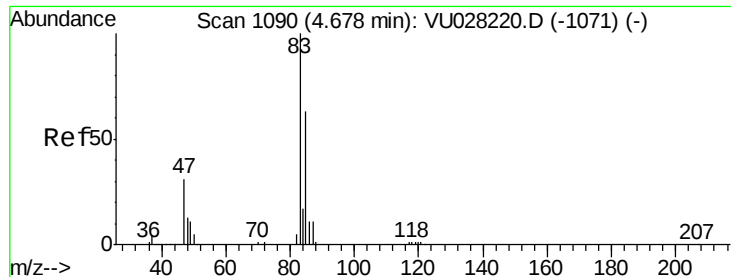
Bromochloromethane  
 Concen: 1.078 ug/L  
 RT: 4.56 min Scan# 1052  
 Delta R.T. 0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

Tgt Ion: 128 Resp: 5426  
 Ion Ratio Lower Upper  
 128 100  
 49 216.9 162.0 300.8  
 130 118.8 87.7 162.9  
 51 59.8 57.6 86.4



Abundance Ion 127.90 (127.60 to 128.60): V  
 Ion 49.10 (48.80 to 49.80): VU0  
 Ion 129.95 (129.65 to 130.65): V  
 Ion 51.05 (50.75 to 51.75): VU0





#25

Chloroform

Concen: 1.121 ug/L

RT: 4.68 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

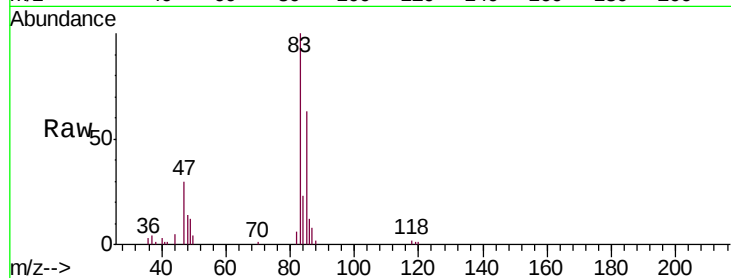
VSTD00115

Tgt Ion: 83 Resp: 30636

Ion Ratio Lower Upper

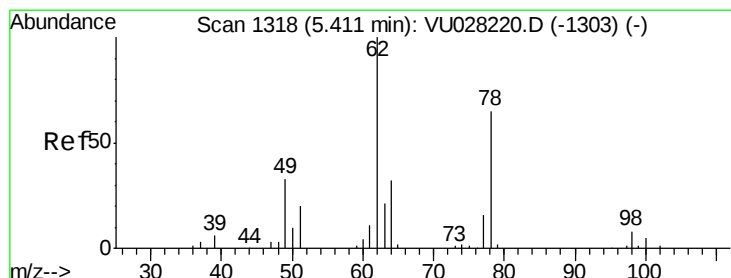
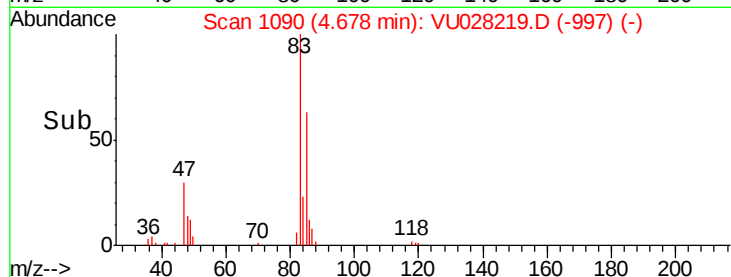
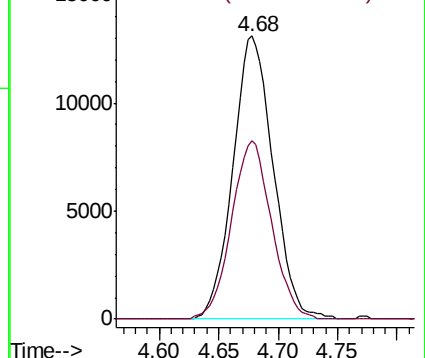
83 100

85 62.9 44.6 82.8



Abundance Ion 83.05 (82.75 to 83.75): VU028219.D (-997) (-)

Ion 85.00 (84.70 to 85.70): VU028219.D (-997) (-)



#27

1,2-Dichloroethane

Concen: 1.097 ug/L

RT: 5.41 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VU028219.D

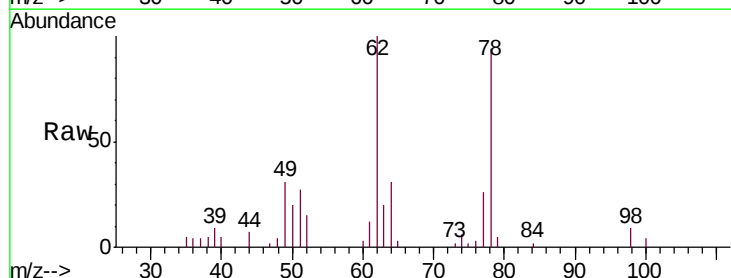
Acq: 17 Nov 2018 12:09

Tgt Ion: 62 Resp: 17130

Ion Ratio Lower Upper

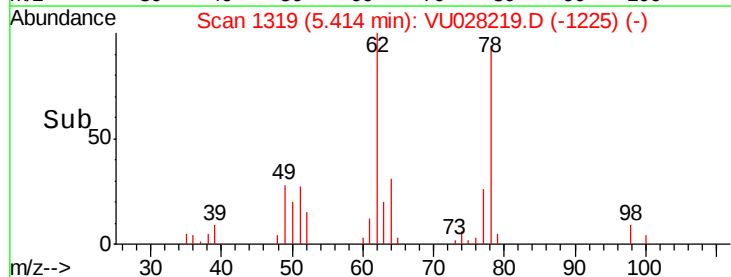
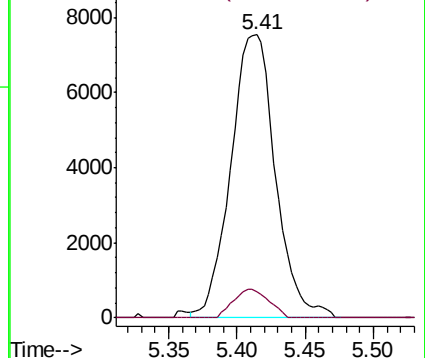
62 100

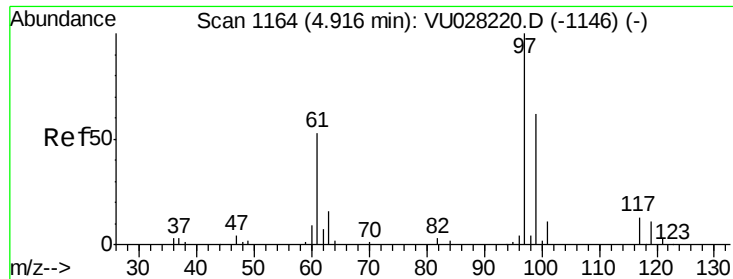
98 9.3 6.2 9.4



Abundance Ion 62.00 (61.70 to 62.70): VU028219.D (-1225) (-)

Ion 98.05 (97.75 to 98.75): VU028219.D (-1225) (-)

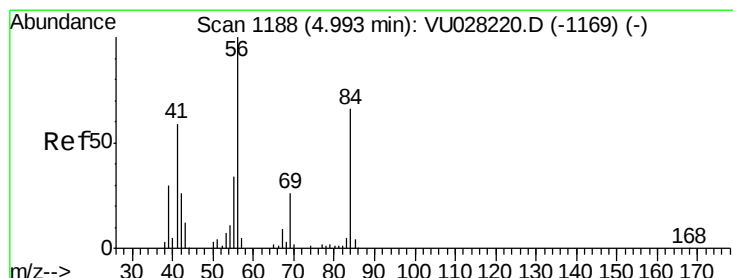
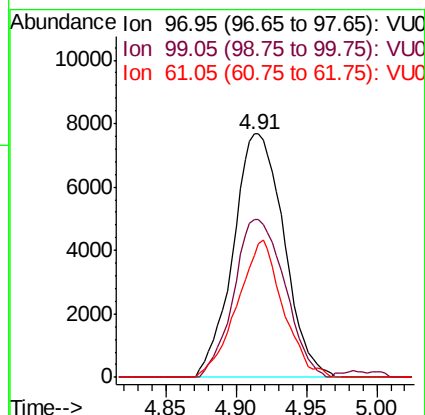
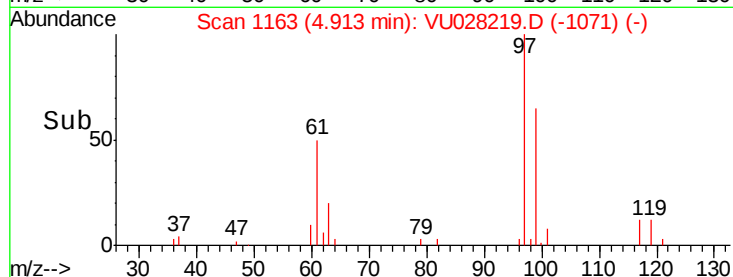
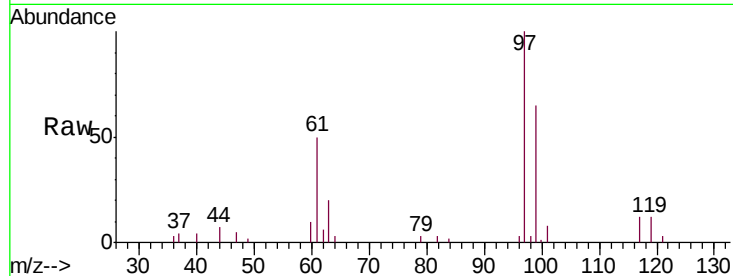




#29  
 1,1,1-Trichloroethane  
 Concen: 1.086 ug/L  
 RT: 4.91 min Scan# 1163  
 Delta R.T. -0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

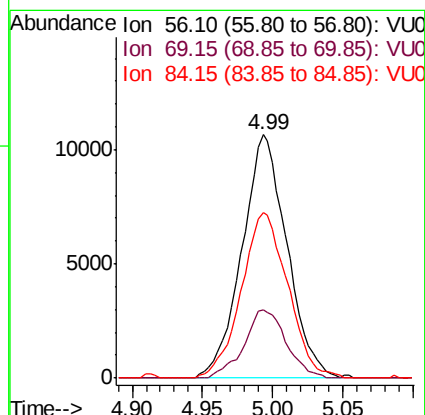
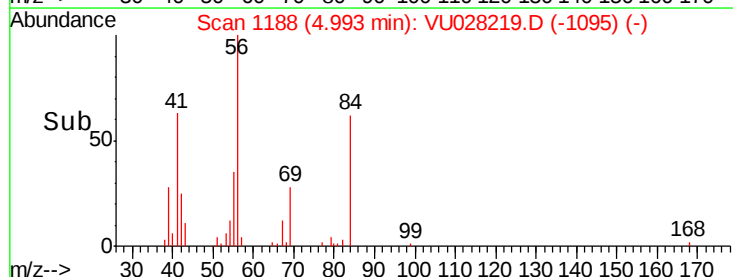
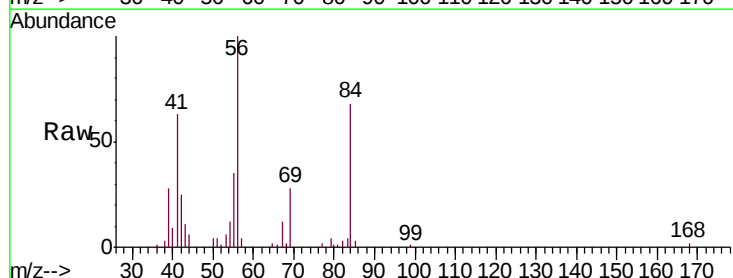
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00115

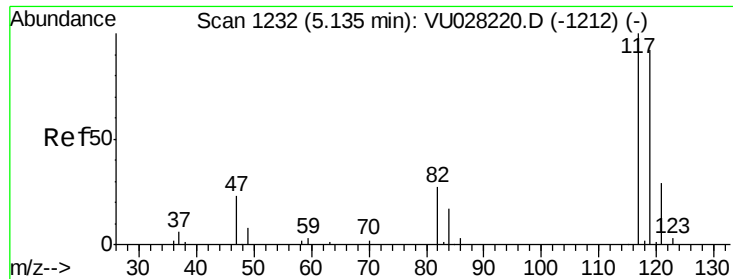
Tgt Ion: 97 Resp: 19251  
 Ion Ratio Lower Upper  
 97 100  
 99 65.2 50.8 76.2  
 61 50.8 42.6 64.0



#30  
 Cyclohexane  
 Concen: 1.021 ug/L  
 RT: 4.99 min Scan# 1188  
 Delta R.T. -0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

Tgt Ion: 56 Resp: 23683  
 Ion Ratio Lower Upper  
 56 100  
 69 26.5 22.0 33.0  
 84 70.4 56.0 84.0

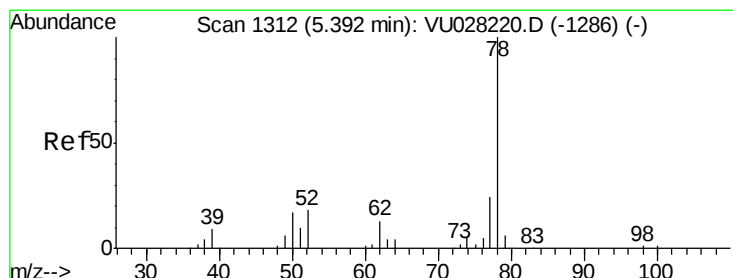
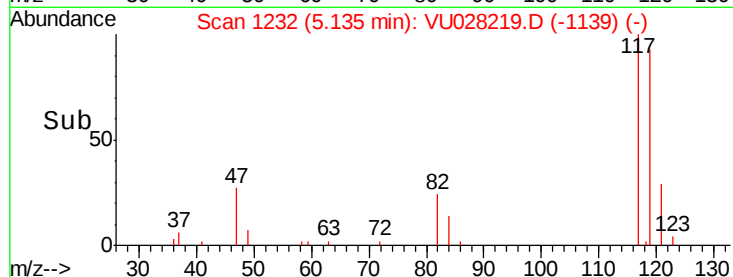
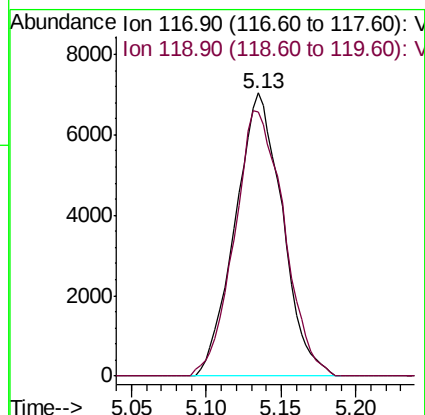
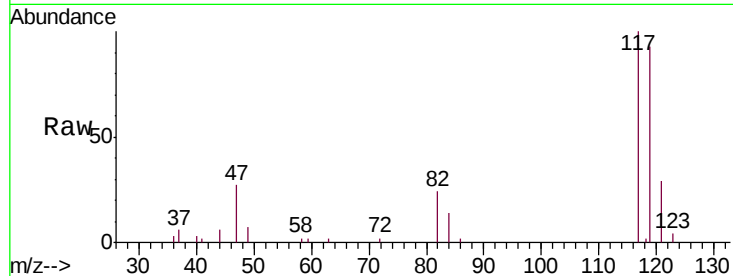




#31  
Carbon tetrachloride  
Concen: 1.062 ug/L  
RT: 5.13 min Scan# 1232  
Delta R.T. -0.00 min  
Lab File: VU028219.D  
Acq: 17 Nov 2018 12:09

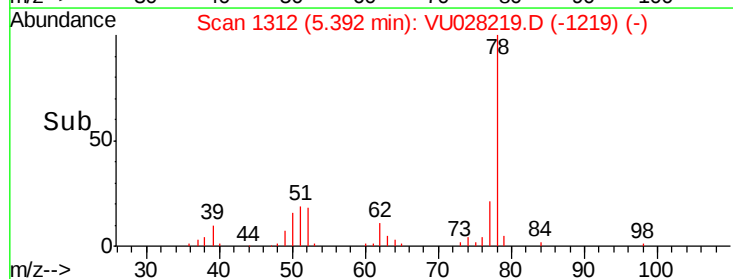
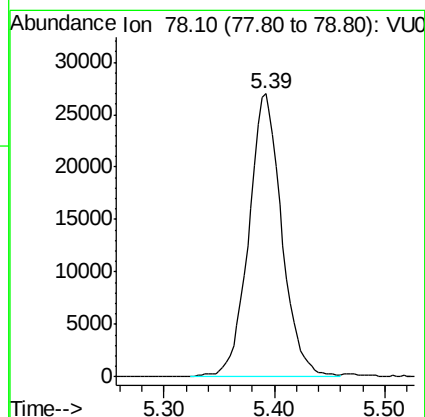
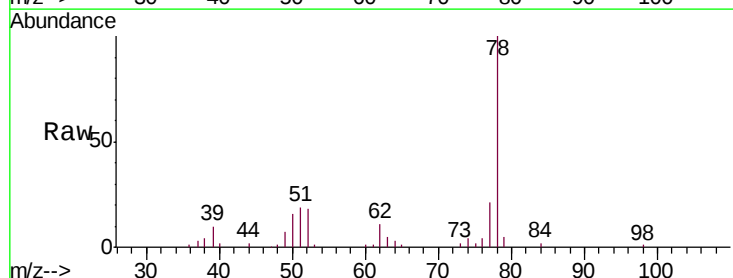
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00115

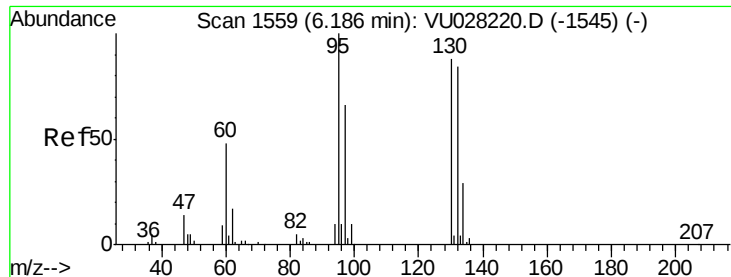
Tgt Ion:117 Resp: 15450  
Ion Ratio Lower Upper  
117 100  
119 98.7 75.6 113.4



#33  
Benzene  
Concen: 1.078 ug/L  
RT: 5.39 min Scan# 1312  
Delta R.T. -0.00 min  
Lab File: VU028219.D  
Acq: 17 Nov 2018 12:09

Tgt Ion: 78 Resp: 55948





#34

Trichloroethene

Concen: 1.010 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00115

Tgt Ion: 95 Resp: 12837

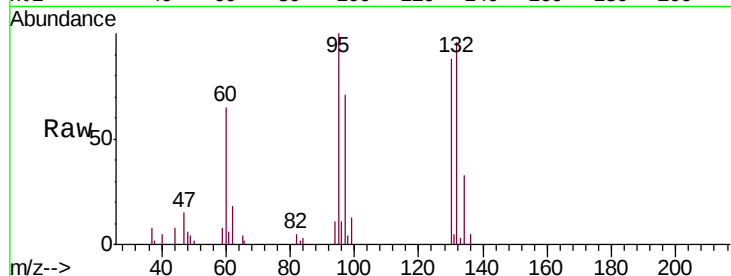
Ion Ratio Lower Upper

95 100

97 70.7 46.5 86.3

132 96.1 58.9 109.3

130 87.9 61.3 113.9



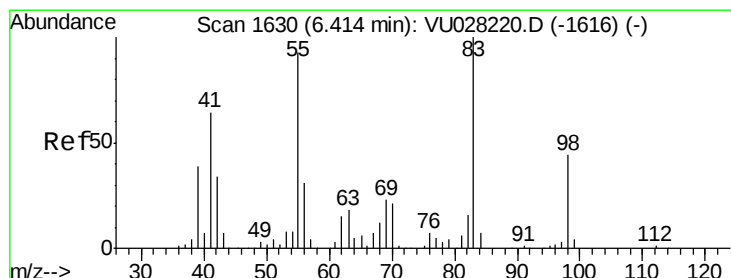
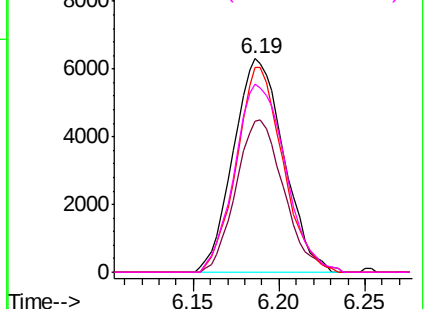
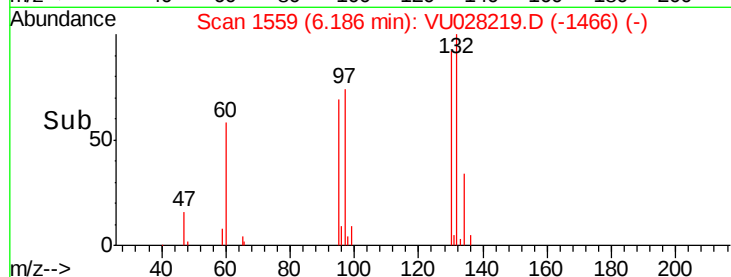
Abundance

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

Methylcyclohexane

Concen: 0.946 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

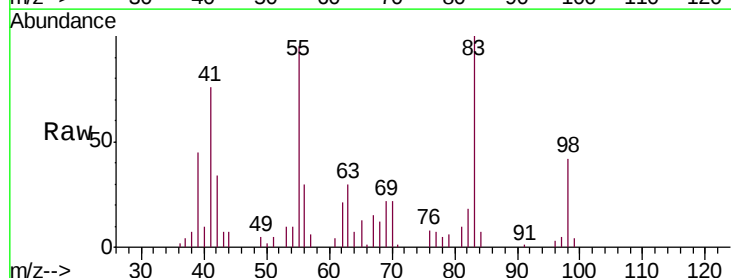
Tgt Ion: 83 Resp: 18938

Ion Ratio Lower Upper

83 100

55 100.4 73.2 109.8

98 44.9 33.4 50.2

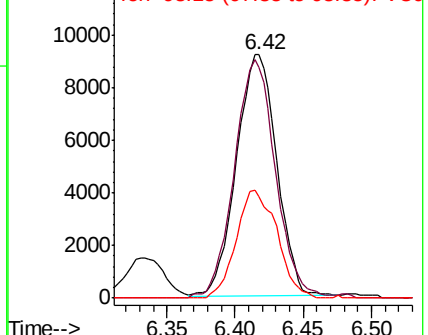
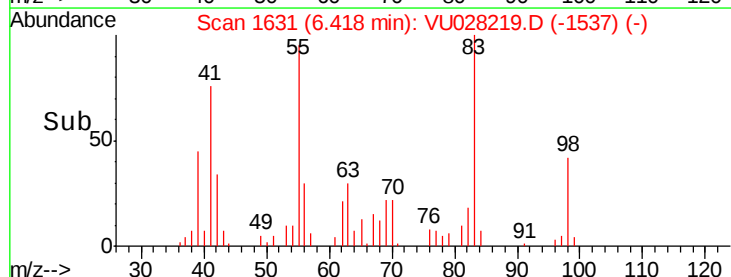


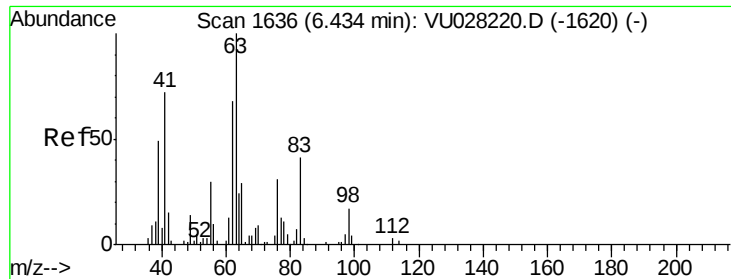
Abundance

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

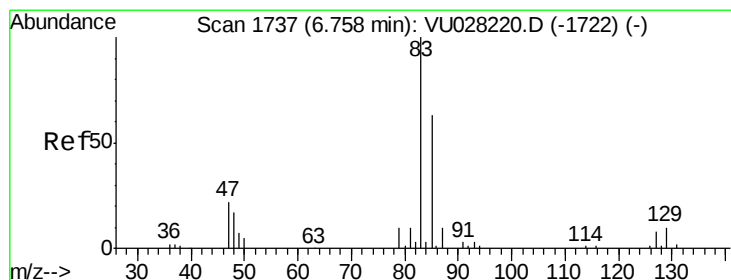
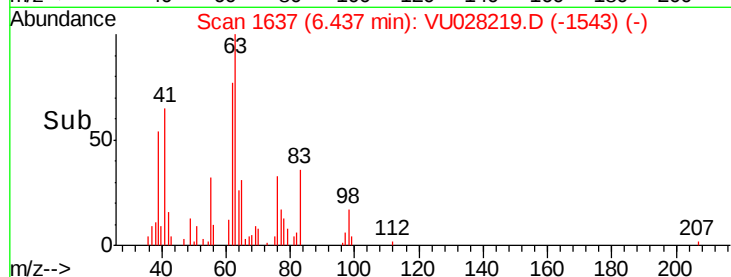
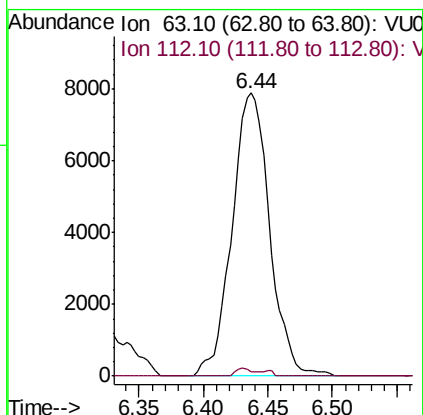
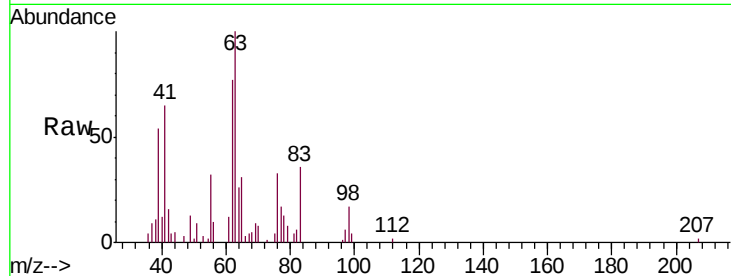




#37  
 1,2-Dichloropropane  
 Concen: 1.081 ug/L  
 RT: 6.44 min Scan# 1637  
 Delta R.T. 0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

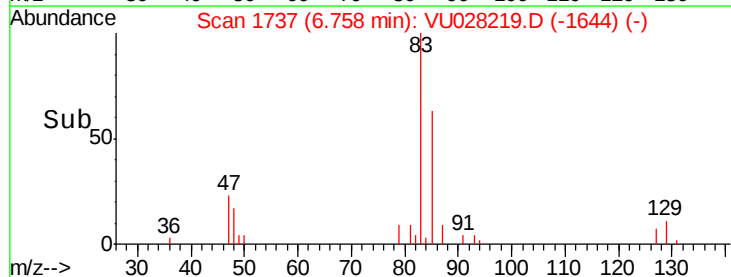
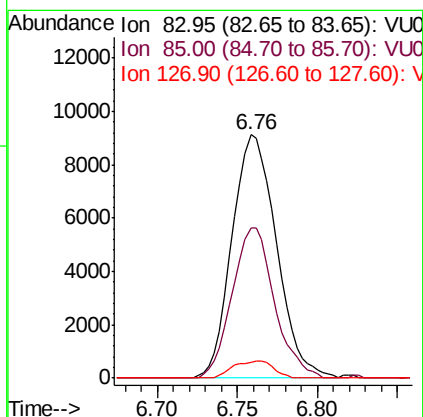
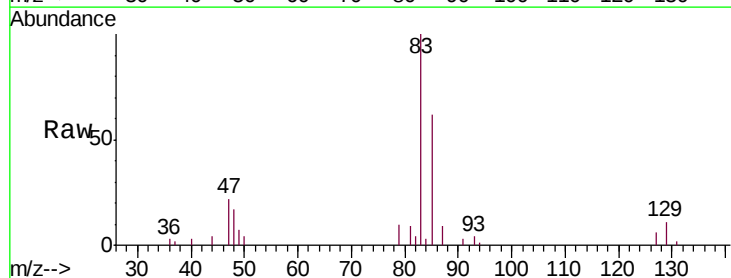
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00115

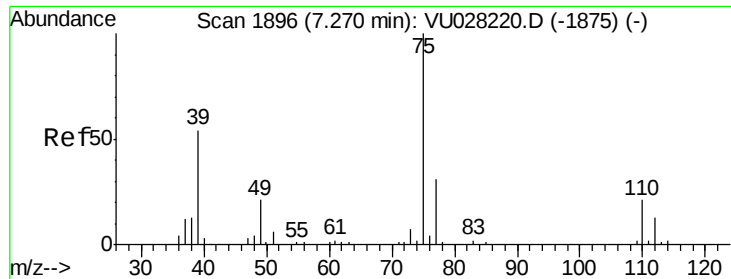
Tgt Ion: 63 Resp: 16003  
 Ion Ratio Lower Upper  
 63 100  
 112 1.2 2.2 3.2#



#38  
 Bromodichloromethane  
 Concen: 1.074 ug/L  
 RT: 6.76 min Scan# 1737  
 Delta R.T. -0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

Tgt Ion: 83 Resp: 17337  
 Ion Ratio Lower Upper  
 83 100  
 85 61.9 44.2 82.0  
 127 6.5 6.2 9.4

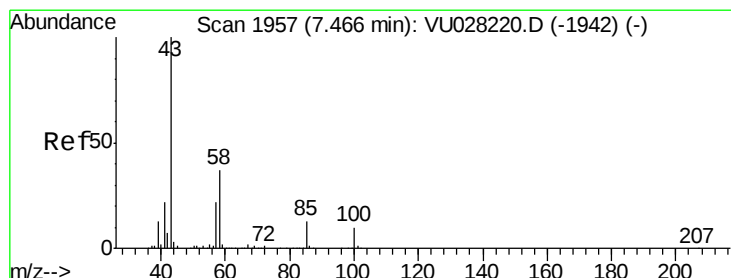
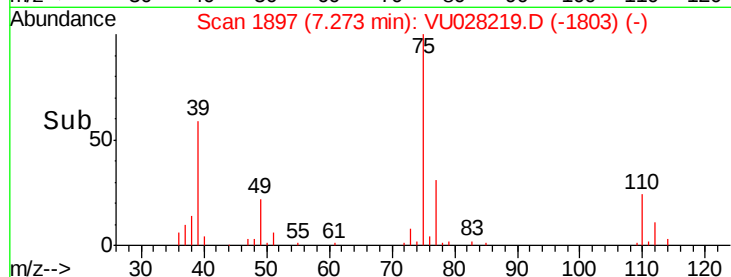
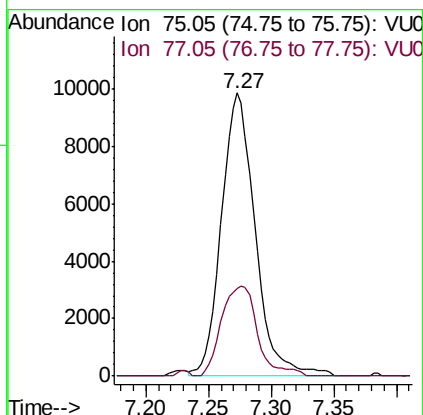
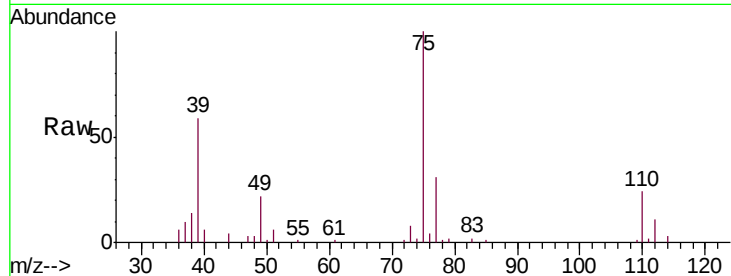




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.980 ug/L  
 RT: 7.27 min Scan# 1897  
 Delta R.T. 0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

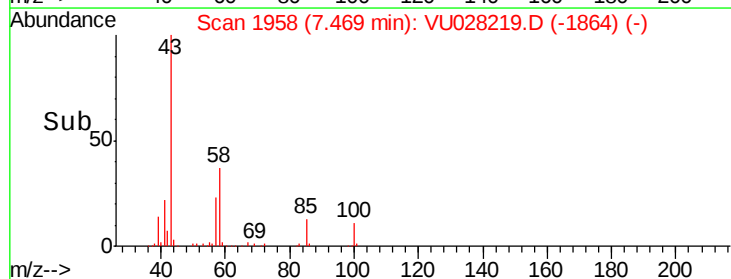
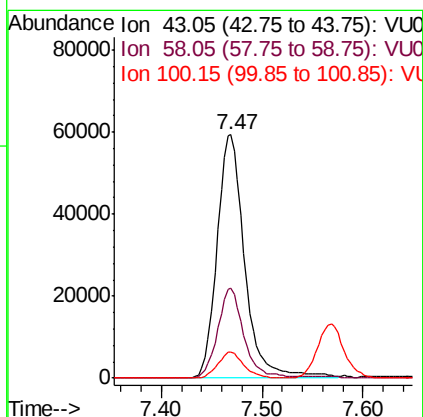
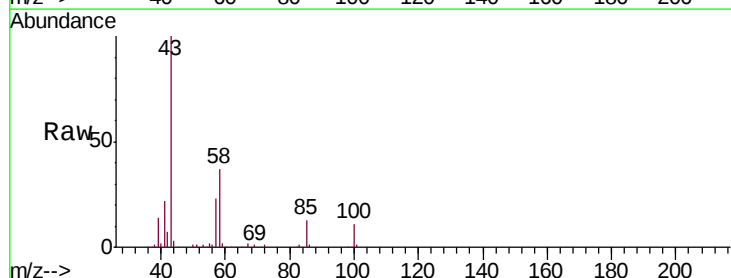
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00115

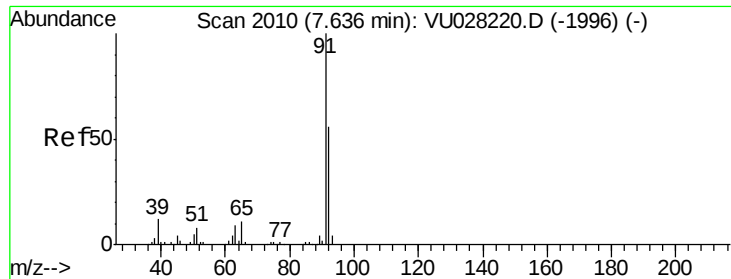
Tgt Ion: 75 Resp: 18385  
 Ion Ratio Lower Upper  
 75 100  
 77 30.8 21.7 40.3



#40  
 4-Methyl-2-pentanone  
 Concen: 10.728 ug/L  
 RT: 7.47 min Scan# 1958  
 Delta R.T. 0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

Tgt Ion: 43 Resp: 113573  
 Ion Ratio Lower Upper  
 43 100  
 58 34.7 28.8 43.2  
 100 10.1 8.0 12.0





#42

Toluene

Concen: 1.031 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

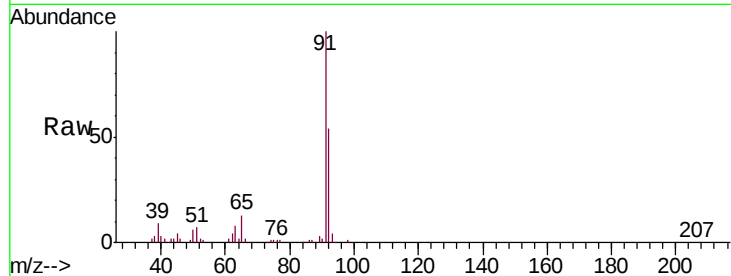
VSTD00115

Tgt Ion: 91 Resp: 54227

Ion Ratio Lower Upper

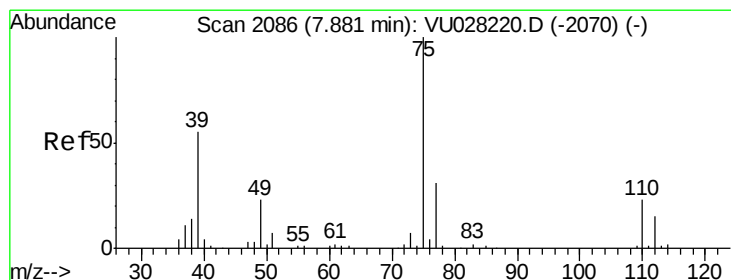
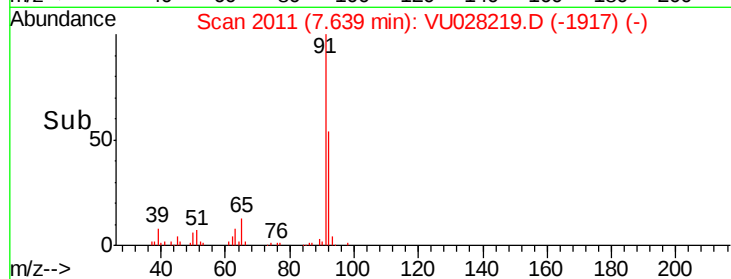
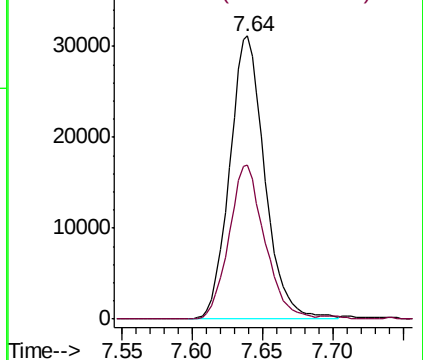
91 100

92 54.4 39.0 72.4



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.954 ug/L

RT: 7.88 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VU028219.D

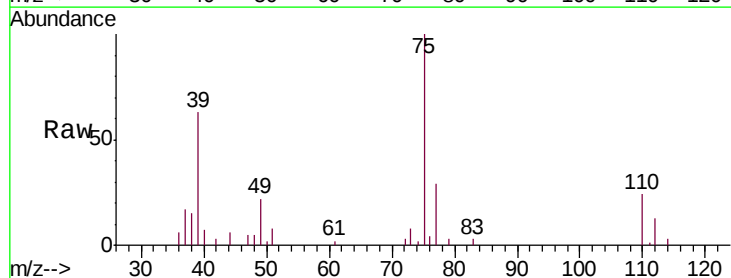
Acq: 17 Nov 2018 12:09

Tgt Ion: 75 Resp: 13474

Ion Ratio Lower Upper

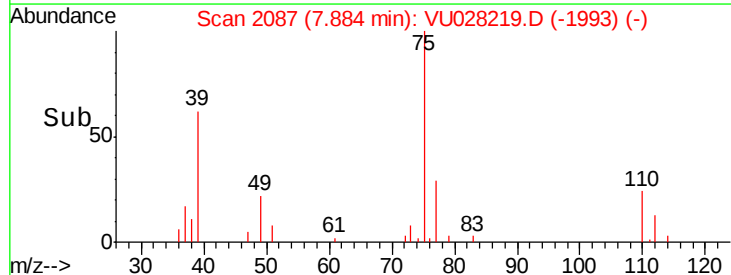
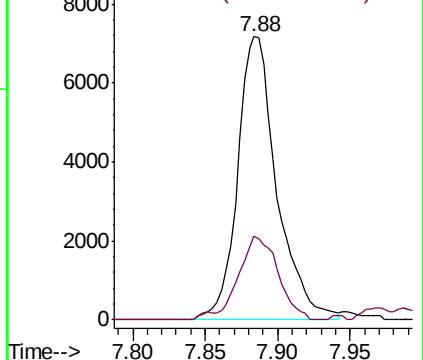
75 100

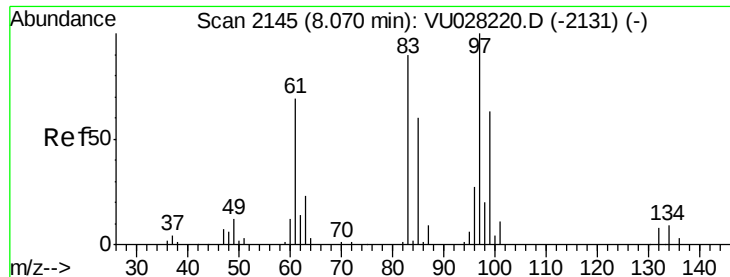
77 29.4 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 1.134 ug/L

RT: 8.07 min Scan# 2145

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00115

Tgt Ion: 97 Resp: 10144

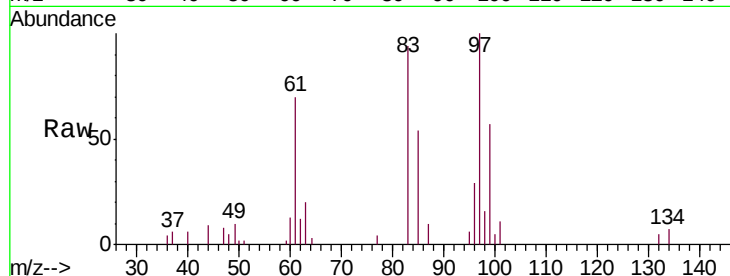
Ion Ratio Lower Upper

97 100

99 57.1 44.2 82.0

83 93.8 63.3 117.5

85 54.4 41.9 77.9

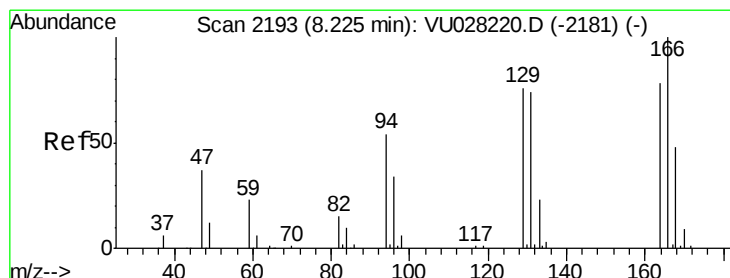
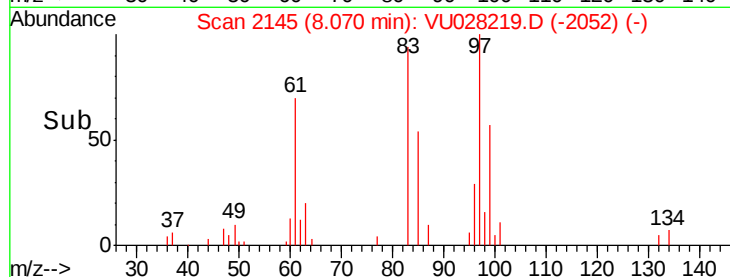
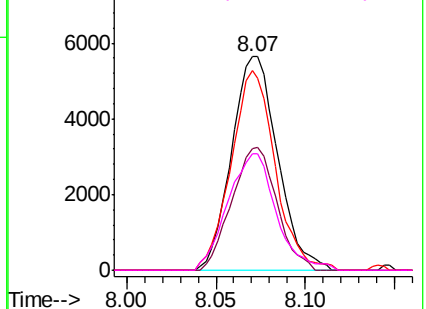


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 1.062 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Tgt Ion: 164 Resp: 9363

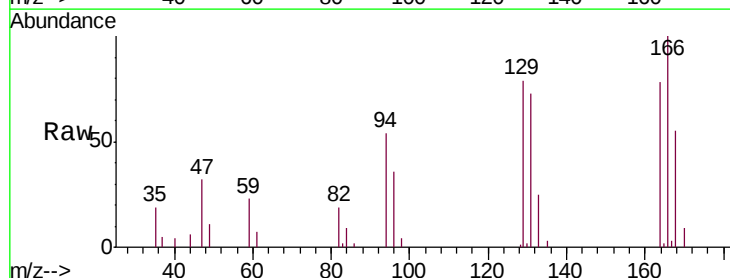
Ion Ratio Lower Upper

164 100

129 100.7 67.6 125.6

131 92.9 66.3 123.1

166 127.6 89.2 165.6

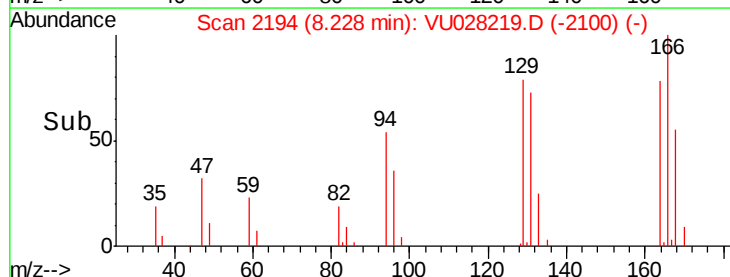
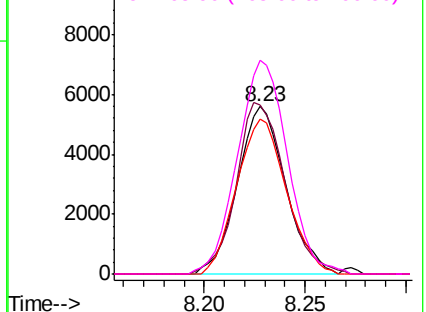


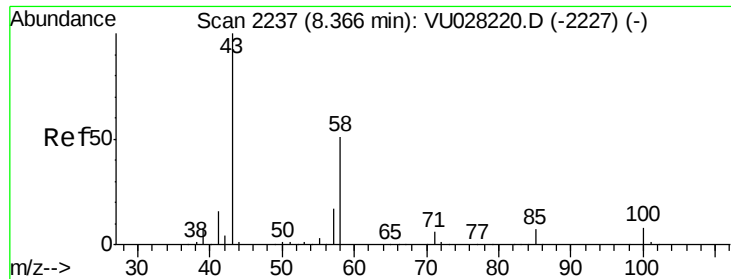
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

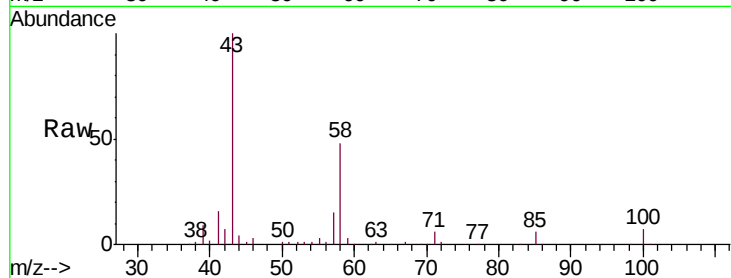




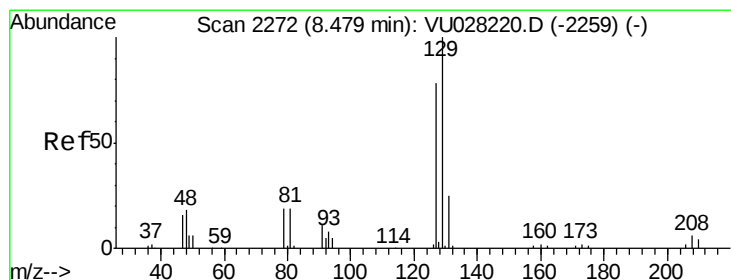
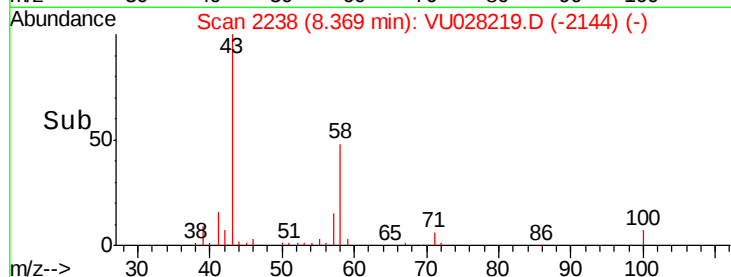
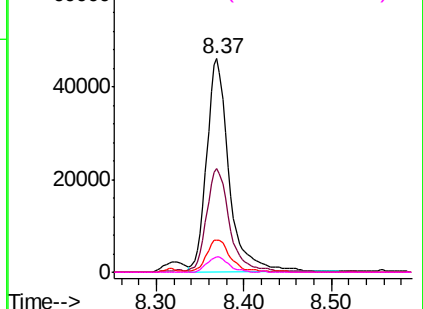
#48  
2-Hexanone  
Concen: 10.848 ug/L  
RT: 8.37 min Scan# 2238  
Delta R.T. 0.00 min  
Lab File: VU028219.D  
Acq: 17 Nov 2018 12:09

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00115

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 81880 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 48.1  | 41.1  | 61.7  |
| 57       | 16.1  | 13.8  | 20.8  |
| 100      | 7.1   | 6.5   | 9.7   |

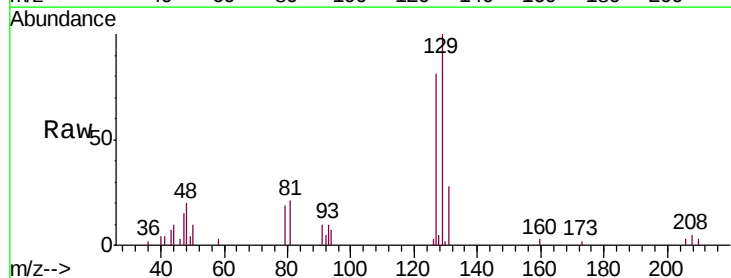


Abundance Ion 43.05 (42.75 to 43.75): VU028219.D (-2144) (-)  
Ion 58.05 (57.75 to 58.75): VU028219.D (-2144) (-)  
Ion 57.20 (56.90 to 57.90): VU028219.D (-2144) (-)  
Ion 100.15 (99.85 to 100.85): VU028219.D (-2144) (-)

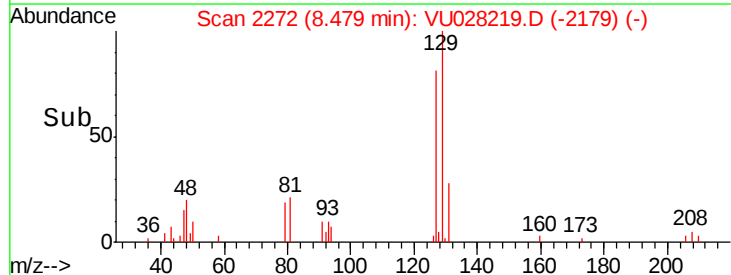
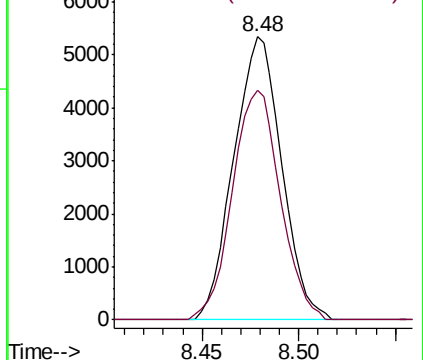


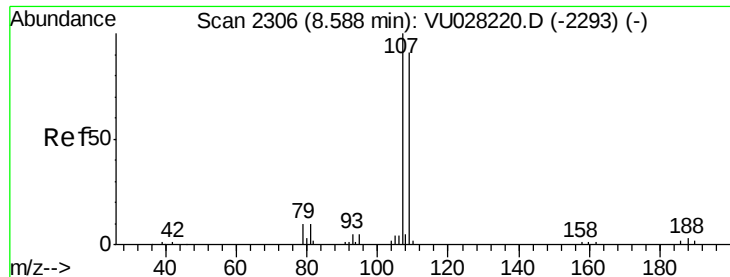
#49  
Dibromochloromethane  
Concen: 1.019 ug/L  
RT: 8.48 min Scan# 2272  
Delta R.T. -0.00 min  
Lab File: VU028219.D  
Acq: 17 Nov 2018 12:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 9226  |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 81.1  | 54.7  | 101.5 |



Abundance Ion 128.95 (128.65 to 129.65): VU028219.D (-2179) (-)  
Ion 126.90 (126.60 to 127.60): VU028219.D (-2179) (-)

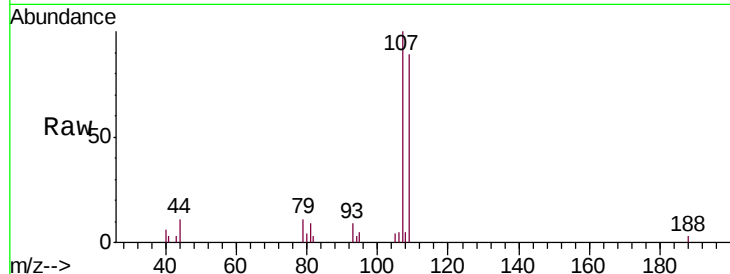




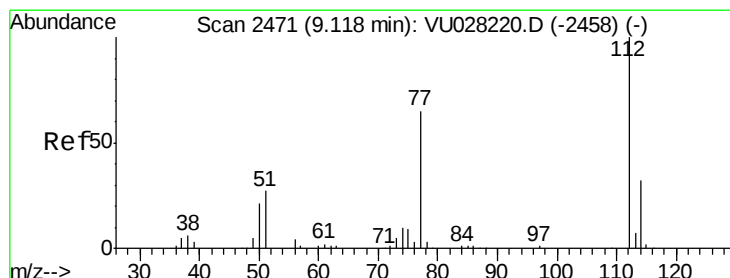
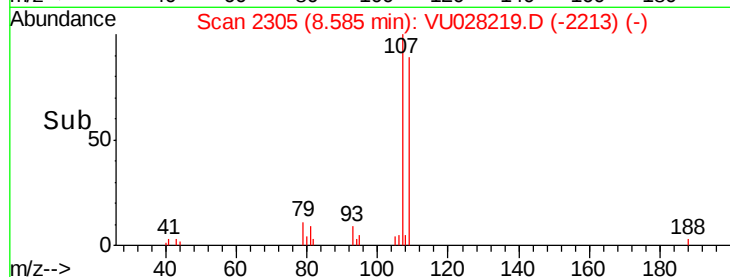
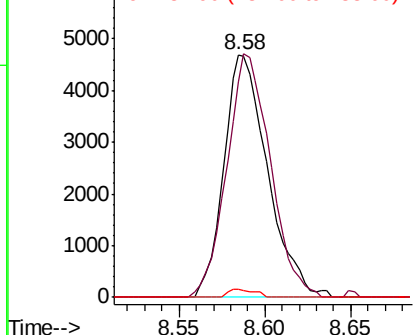
#50  
1,2-Dibromoethane  
Concen: 1.031 ug/L  
RT: 8.58 min Scan# 2305  
Delta R.T. -0.00 min  
Lab File: VU028219.D  
Acq: 17 Nov 2018 12:09

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00115

Tgt Ion:107 Resp: 8336  
Ion Ratio Lower Upper  
107 100  
109 88.9 63.7 118.3  
188 3.2 2.5 3.7

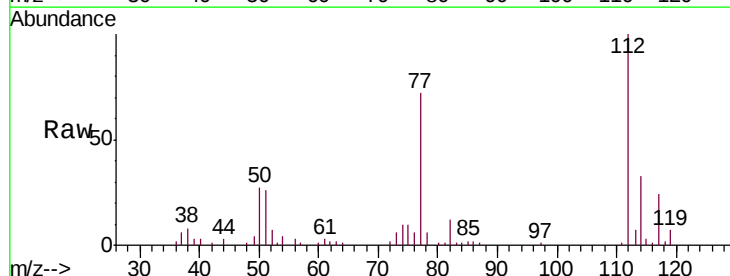


Abundance Ion 106.95 (106.65 to 107.65): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 187.90 (187.60 to 188.60): V

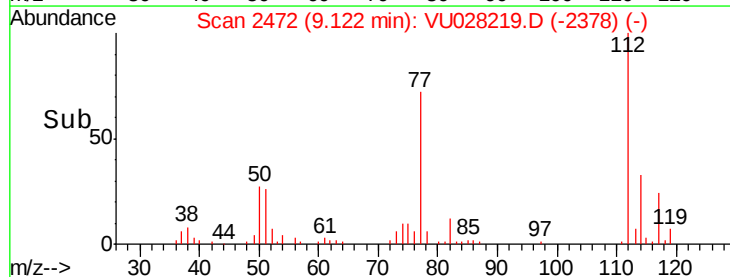
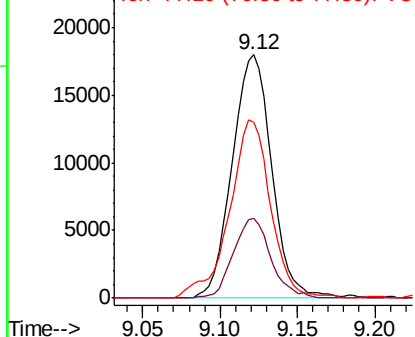


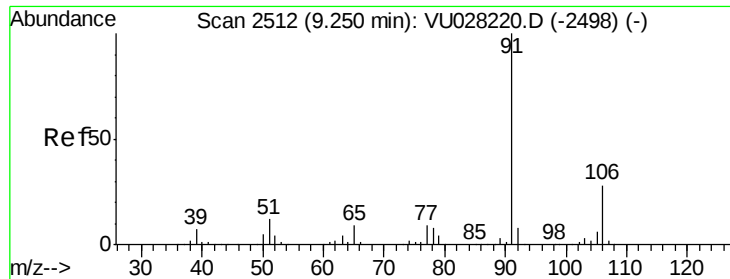
#51  
Chlorobenzene  
Concen: 1.055 ug/L  
RT: 9.12 min Scan# 2472  
Delta R.T. 0.00 min  
Lab File: VU028219.D  
Acq: 17 Nov 2018 12:09

Tgt Ion:112 Resp: 31957  
Ion Ratio Lower Upper  
112 100  
114 32.8 22.3 41.5  
77 72.1 52.4 78.6



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





#52

Ethylbenzene

Concen: 1.013 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

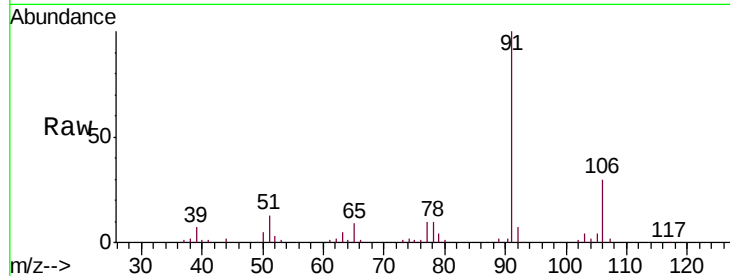
VSTD00115

Tgt Ion: 91 Resp: 57344

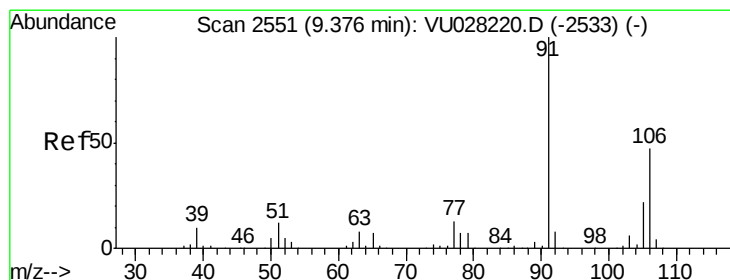
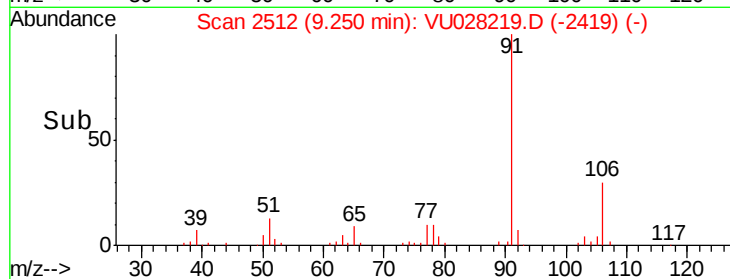
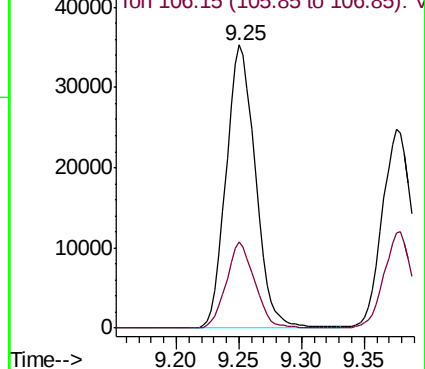
Ion Ratio Lower Upper

91 100

106 30.4 19.3 35.9



Abundance Ion 91.15 (90.85 to 91.85): VU028220.D (-2498) (-)



#53

m,p-xylene

Concen: 0.993 ug/L

RT: 9.38 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VU028219.D

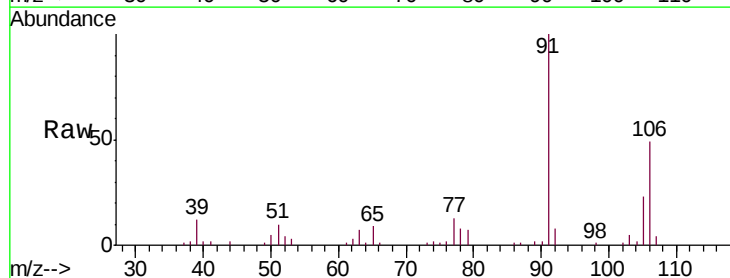
Acq: 17 Nov 2018 12:09

Tgt Ion: 106 Resp: 19496

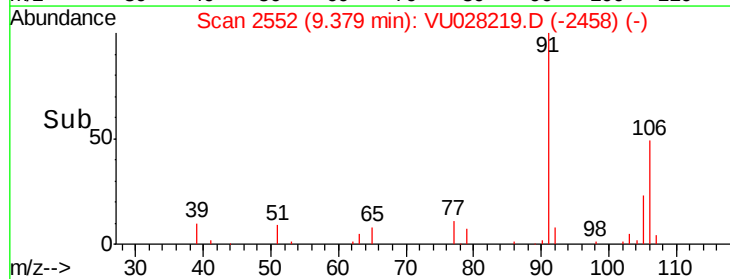
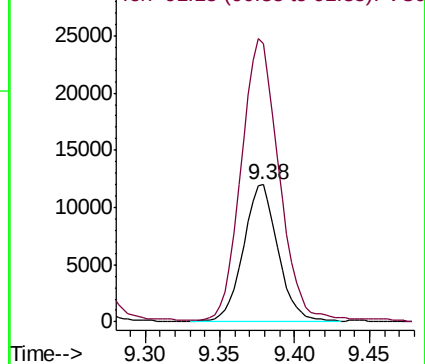
Ion Ratio Lower Upper

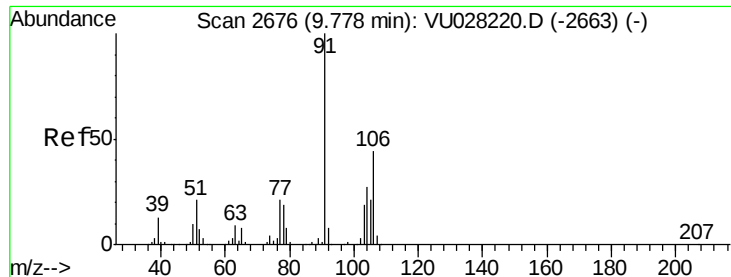
106 100

91 203.4 150.6 279.6



Abundance Ion 106.15 (105.85 to 106.85): VU028220.D (-2533) (-)





#54

o-xylene

Concen: 0.984 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

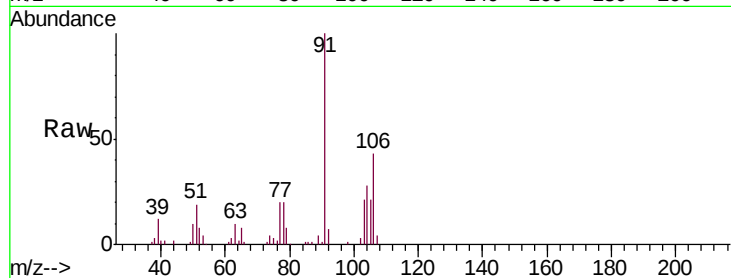
VSTD00115

Tgt Ion:106 Resp: 19308

Ion Ratio Lower Upper

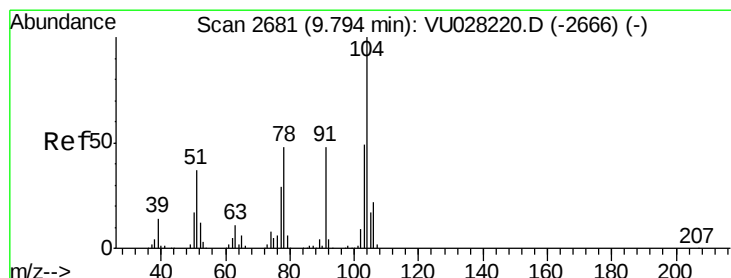
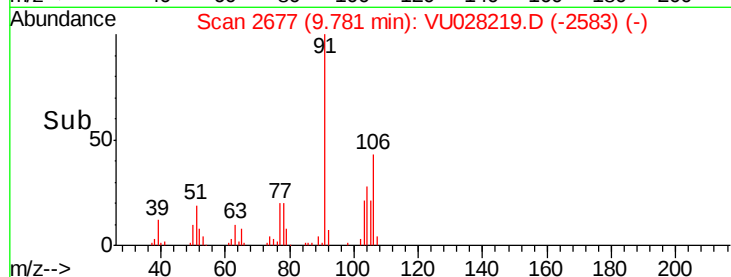
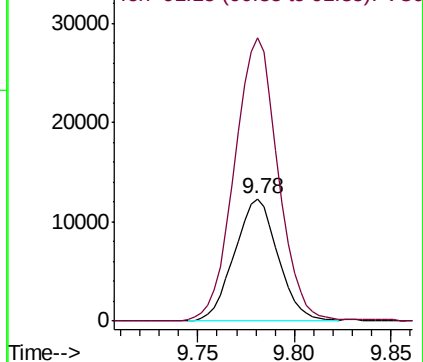
106 100

91 231.5 157.5 292.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.996 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. -0.00 min

Lab File: VU028219.D

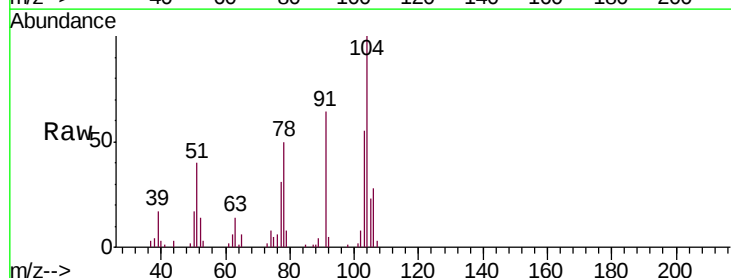
Acq: 17 Nov 2018 12:09

Tgt Ion:104 Resp: 32802

Ion Ratio Lower Upper

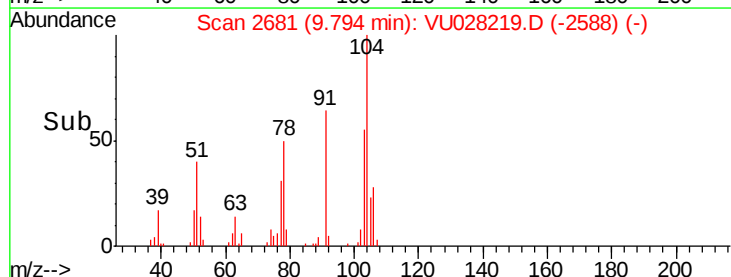
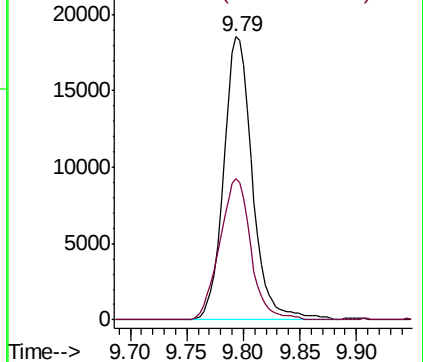
104 100

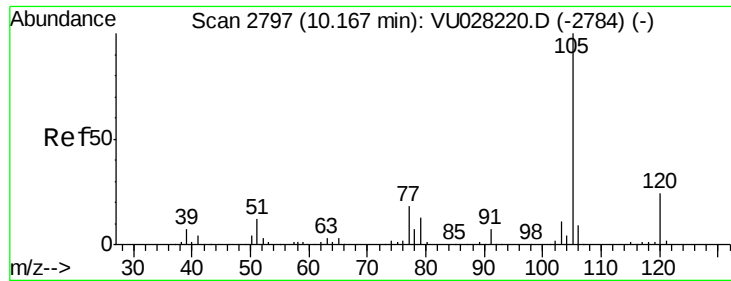
78 49.9 33.4 62.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.999 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00115

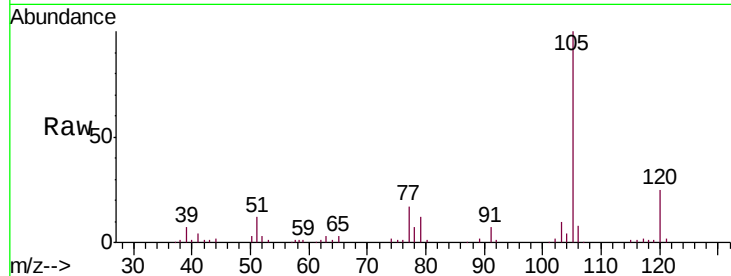
Tgt Ion: 105 Resp: 52468

Ion Ratio Lower Upper

105 100

120 24.2 20.3 30.5

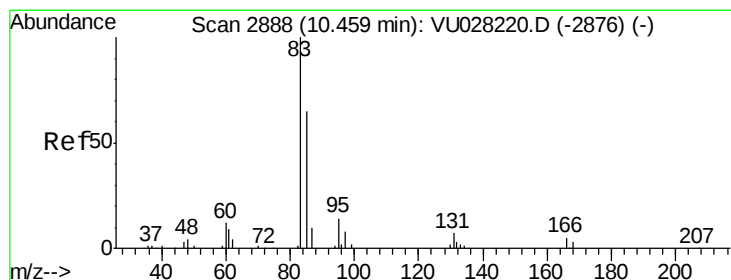
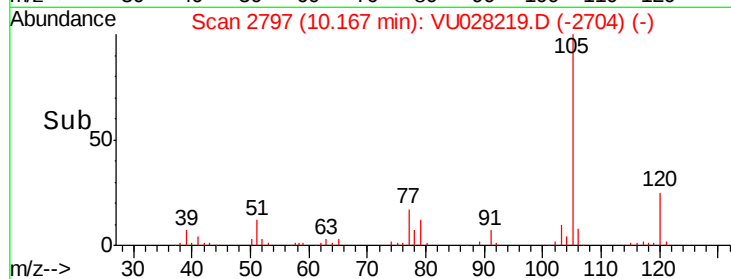
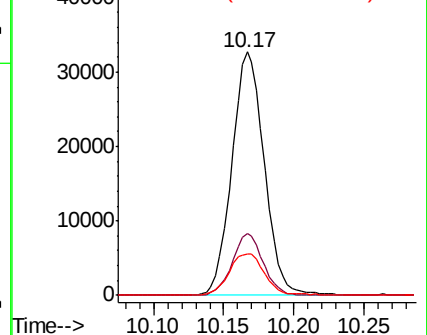
77 18.7 14.5 21.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 1.116 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

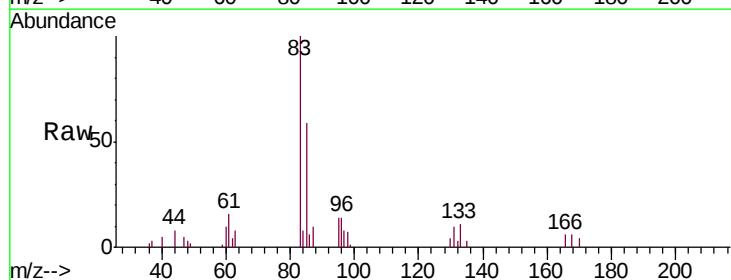
Tgt Ion: 83 Resp: 12831

Ion Ratio Lower Upper

83 100

85 59.2 46.1 85.5

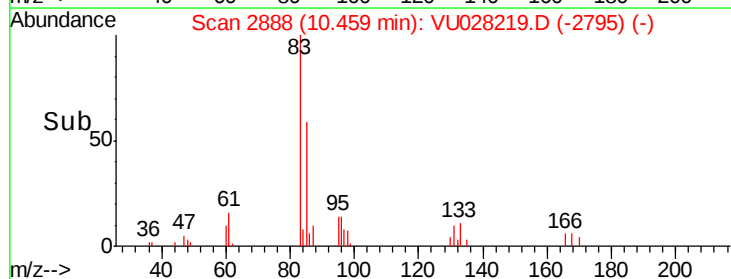
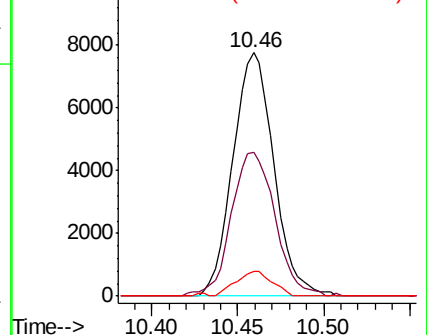
131 10.1 6.2 9.2#

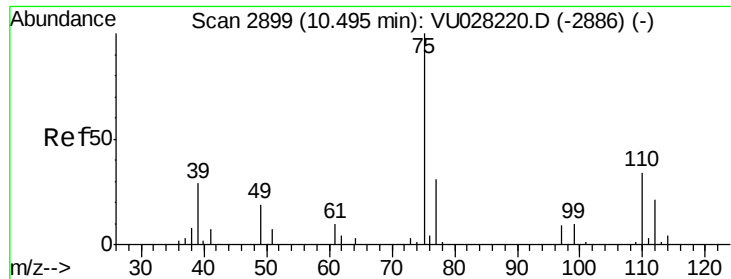


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

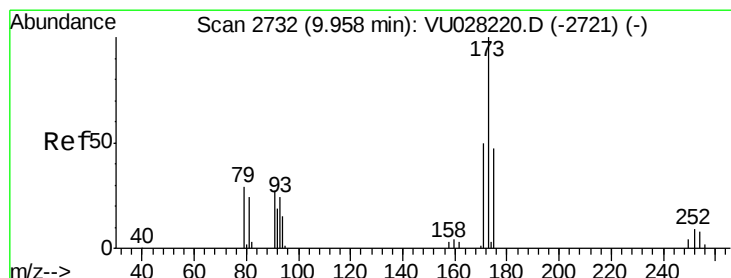
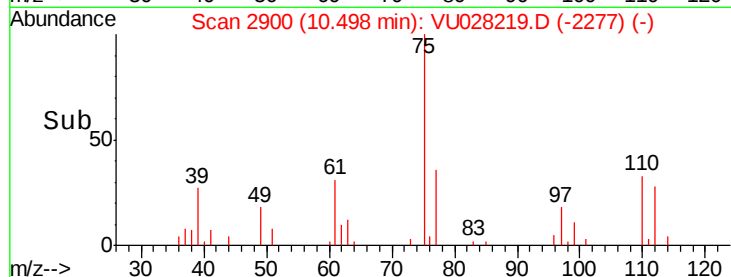
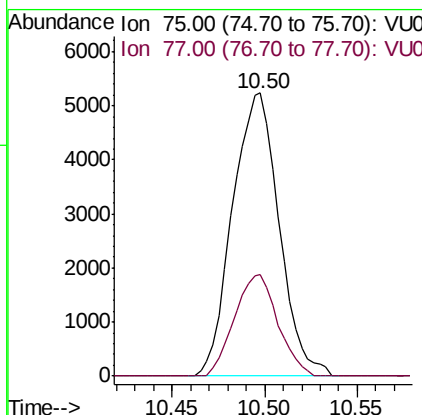
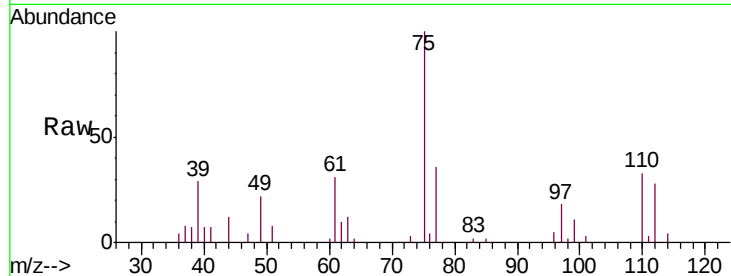




#59  
 1,2,3-Trichloropropane  
 Concen: 1.071 ug/L  
 RT: 10.50 min Scan# 2900  
 Delta R.T. 0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

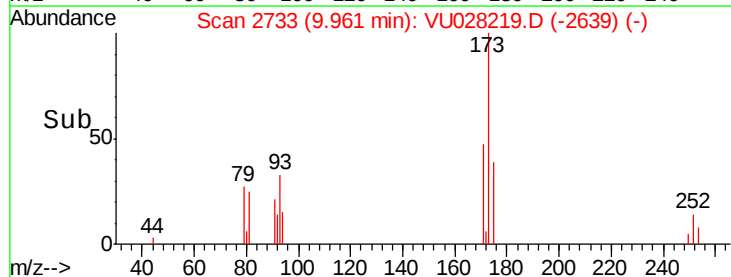
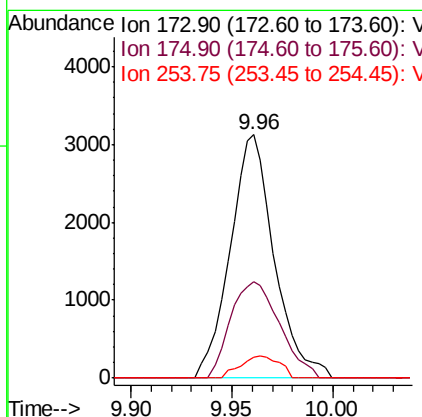
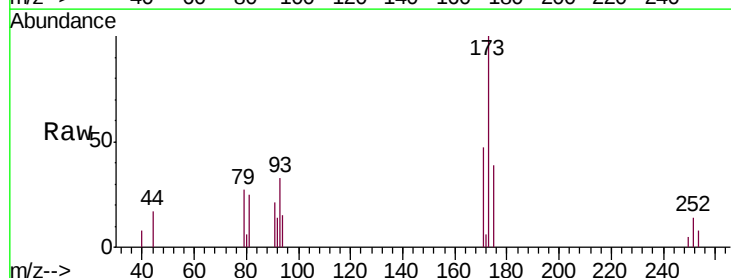
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00115

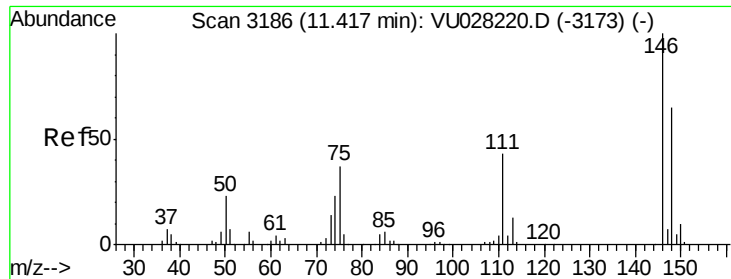
Tgt Ion: 75 Resp: 9163  
 Ion Ratio Lower Upper  
 75 100  
 77 33.2 25.7 38.5



#61  
 Bromoform  
 Concen: 1.082 ug/L  
 RT: 9.96 min Scan# 2733  
 Delta R.T. 0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

Tgt Ion: 173 Resp: 4769  
 Ion Ratio Lower Upper  
 173 100  
 175 44.1 38.7 58.1  
 254 8.0 6.6 10.0

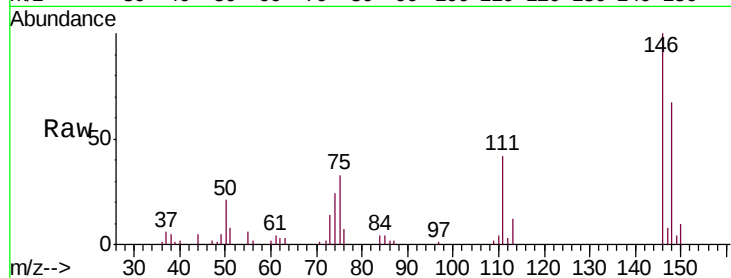




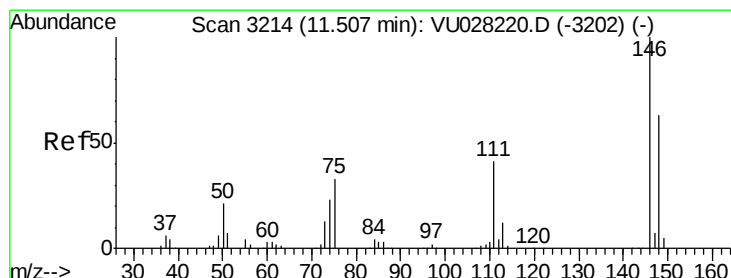
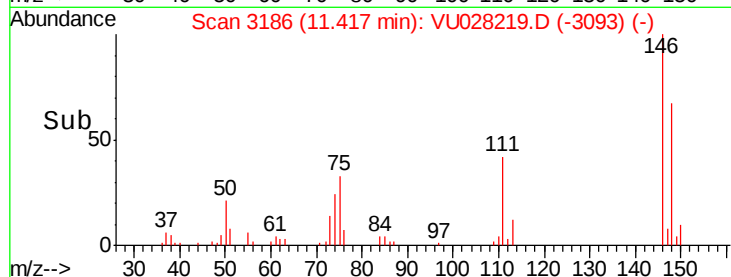
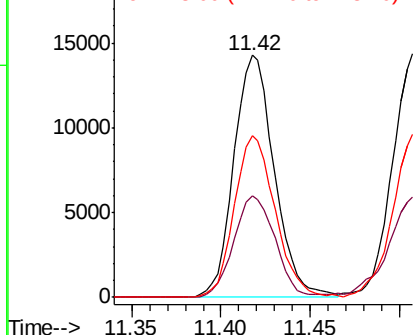
#62  
 1,3-Dichlorobenzene  
 Concen: 1.066 ug/L  
 RT: 11.42 min Scan# 3186  
 Delta R.T. -0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00115

Tgt Ion:146 Resp: 22547  
 Ion Ratio Lower Upper  
 146 100  
 111 41.8 30.4 56.4  
 148 66.8 45.3 84.1

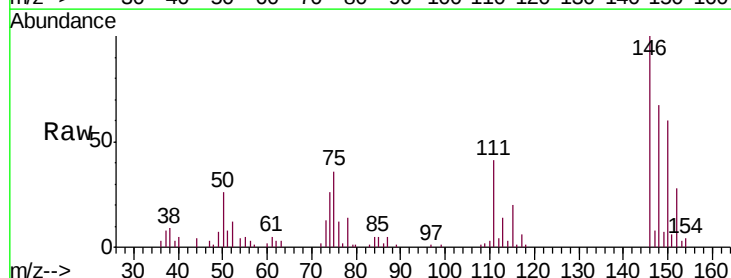


Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

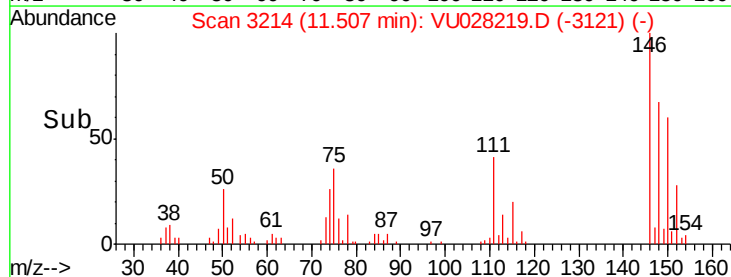
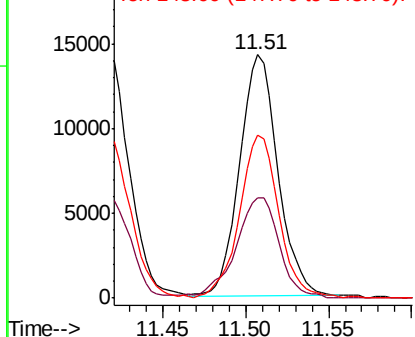


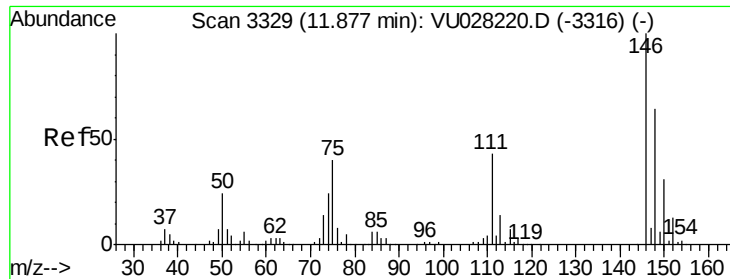
#63  
 1,4-Dichlorobenzene  
 Concen: 1.063 ug/L  
 RT: 11.51 min Scan# 3214  
 Delta R.T. -0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

Tgt Ion:146 Resp: 22932  
 Ion Ratio Lower Upper  
 146 100  
 111 41.4 28.9 53.7  
 148 66.8 44.5 82.7



Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

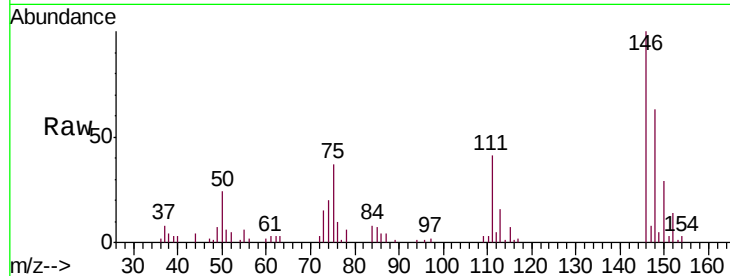




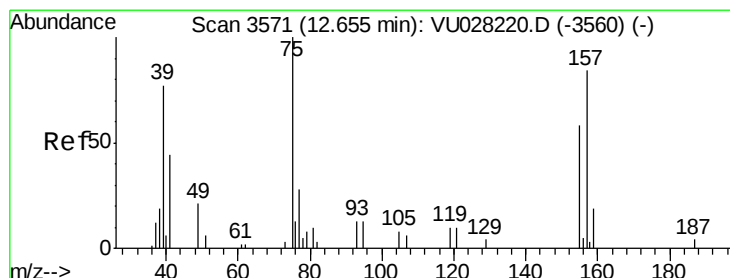
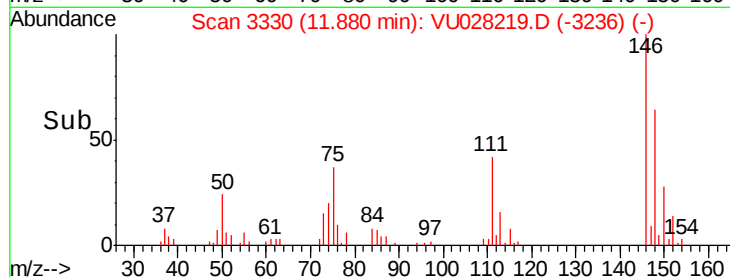
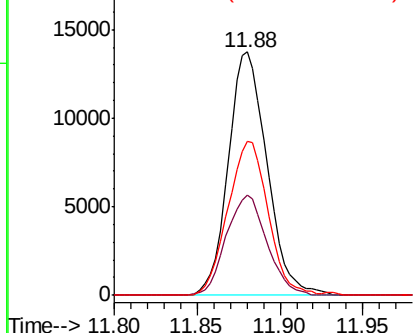
#65  
 1,2-Dichlorobenzene  
 Concen: 1.076 ug/L  
 RT: 11.88 min Scan# 3330  
 Delta R.T. 0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00115

Tgt Ion: 146 Resp: 22310  
 Ion Ratio Lower Upper  
 146 100  
 111 41.3 34.7 52.1  
 148 63.5 51.2 76.8

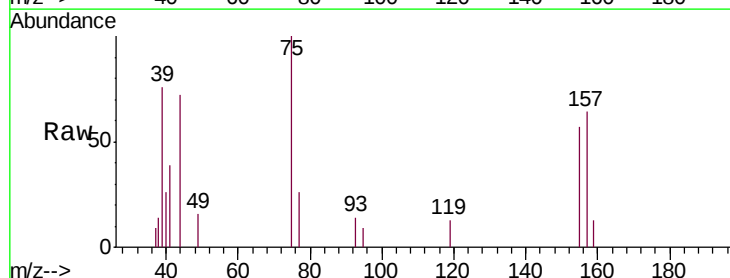


Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

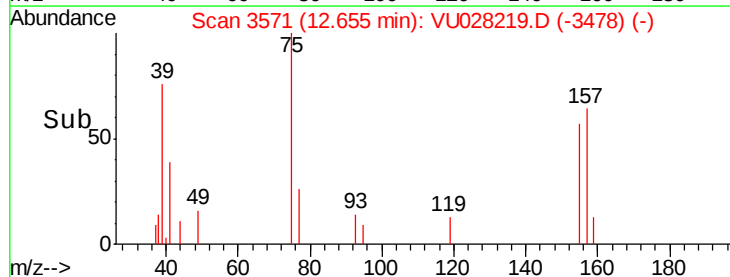
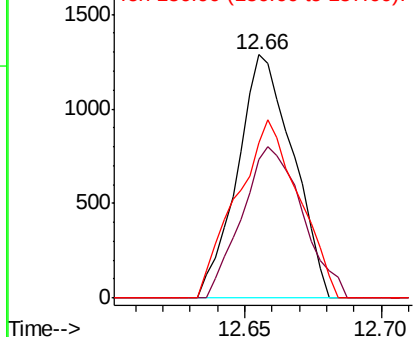


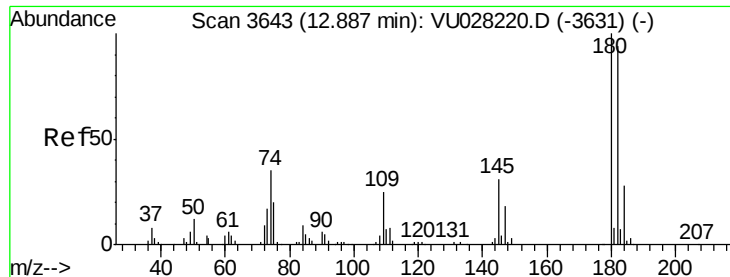
#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 1.127 ug/L  
 RT: 12.66 min Scan# 3571  
 Delta R.T. -0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

Tgt Ion: 75 Resp: 1821  
 Ion Ratio Lower Upper  
 75 100  
 155 56.7 46.1 69.1  
 157 63.9 67.0 100.6#



Abundance Ion 75.05 (74.75 to 75.75): VU0  
 Ion 154.95 (154.65 to 155.65): V  
 Ion 156.90 (156.60 to 157.60): V

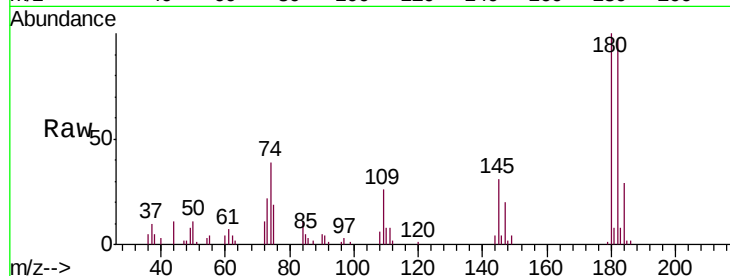




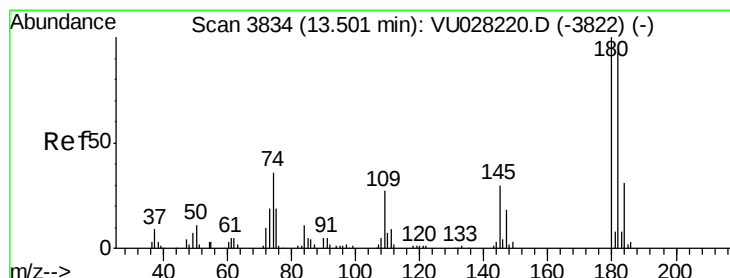
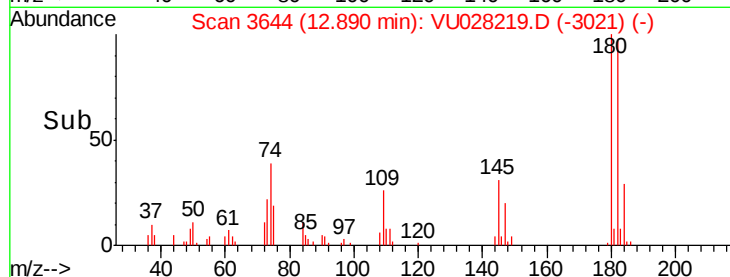
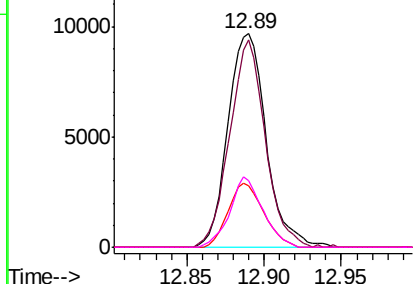
#67  
 1,3,5-Trichlorobenzene  
 Concen: 1.023 ug/L  
 RT: 12.89 min Scan# 3644  
 Delta R.T. 0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00115

| Tgt Ion | Resp  | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 16560 |       |       |
| 182     | 90.3  | 77.5  | 116.3 |
| 184     | 27.9  | 23.7  | 35.5  |
| 145     | 28.4  | 24.2  | 36.4  |

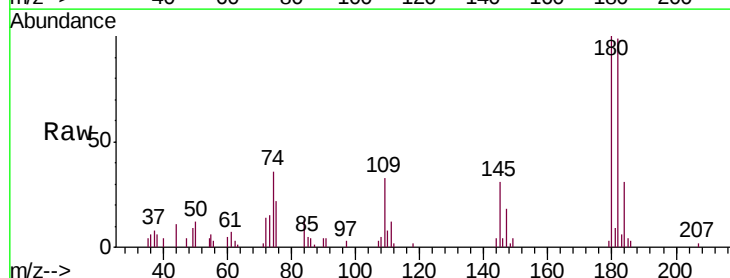


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

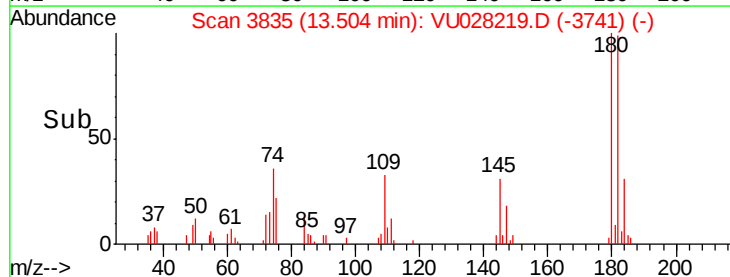
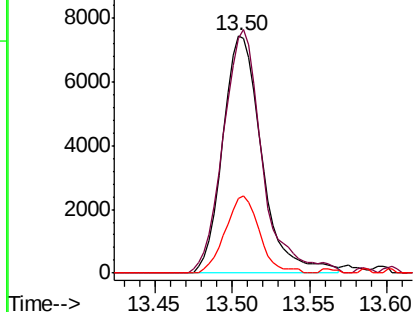


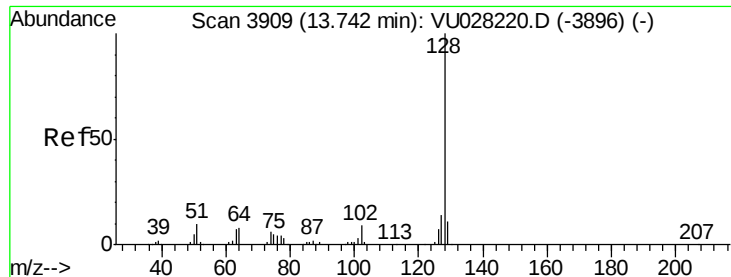
#68  
 1,2,4-trichlorobenzene  
 Concen: 0.966 ug/L  
 RT: 13.50 min Scan# 3835  
 Delta R.T. 0.00 min  
 Lab File: VU028219.D  
 Acq: 17 Nov 2018 12:09

| Tgt Ion | Resp  | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 13055 |       |       |
| 182     | 102.1 | 75.4  | 113.2 |
| 145     | 28.3  | 24.5  | 36.7  |



Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.912 ug/L

RT: 13.75 min Scan# 3910

Delta R.T. 0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00115

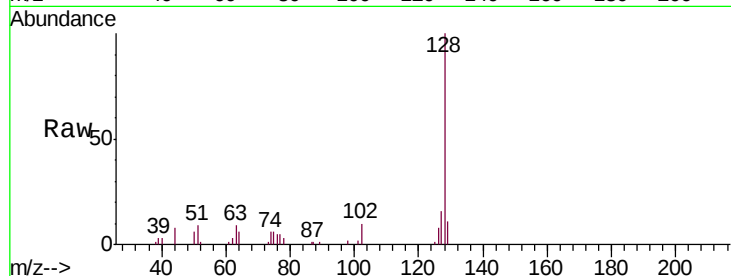
Tgt Ion:128 Resp: 21910

Ion Ratio Lower Upper

128 100

129 10.4 8.6 12.8

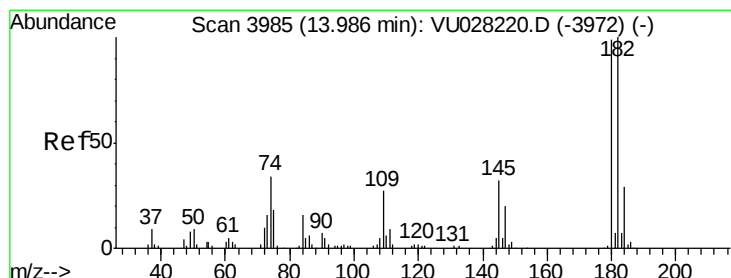
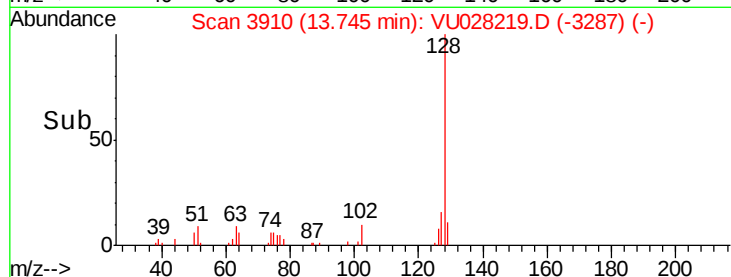
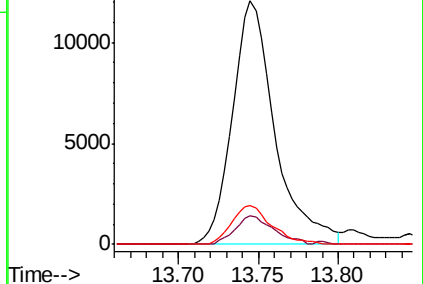
127 14.9 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.008 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU028219.D

Acq: 17 Nov 2018 12:09

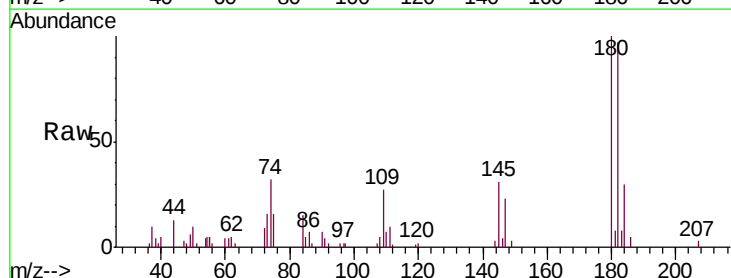
Tgt Ion:180 Resp: 12905

Ion Ratio Lower Upper

180 100

182 96.9 77.0 115.4

145 30.8 25.7 38.5



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

