

Data File : VU027650.D  
Acq On : 13 Oct 2018 01:50  
Operator : MD/SY  
Sample : VSTDCCC050EC  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05047

Quant Time: Oct 13 04:12:29 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM100518WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Oct 13 04:07:45 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 176159   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 167338   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 78684    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 64059    | 46.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.42%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 51317    | 48.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.10%  |
| 11) 1,1-Dichloroethene-d2      | 2.28    | 63    | 125227   | 48.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.30%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 105103   | 93.91    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 93.91%  |
| 24) Chloroform-d               | 4.65    | 84    | 111215   | 50.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.32% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 74559    | 47.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.96%  |
| 32) Benzene-d6                 | 5.34    | 84    | 222350   | 46.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.72%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 76370    | 46.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 92.98%  |
| 41) Toluene-d8                 | 7.57    | 98    | 193879   | 45.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.46%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 32844    | 41.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.98%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 71168    | 85.78    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 85.78%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 100153   | 46.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.24%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 69304    | 45.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.04%  |

#### Target Compounds

|                                |      |     |        |         | Qvalue  |
|--------------------------------|------|-----|--------|---------|---------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 89765  | 51.384  | ug/L 98 |
| 3) Chloromethane               | 1.33 | 50  | 108043 | 53.823  | ug/L 98 |
| 5) Vinyl chloride              | 1.40 | 62  | 101448 | 51.718  | ug/L 98 |
| 6) Bromomethane                | 1.62 | 94  | 46285  | 53.995  | ug/L 97 |
| 8) Chloroethane                | 1.70 | 64  | 59407  | 50.536  | ug/L 99 |
| 9) Trichlorofluoromethane      | 1.89 | 101 | 108550 | 55.285  | ug/L 99 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 60687  | 52.062  | ug/L 99 |
| 12) 1,1-Dichloroethene         | 2.29 | 96  | 56874  | 49.981  | ug/L 91 |
| 13) Acetone                    | 2.32 | 43  | 88584  | 96.504  | ug/L 98 |
| 14) Carbon disulfide           | 2.48 | 76  | 193766 | 46.357  | ug/L 99 |
| 15) Methyl Acetate             | 2.62 | 43  | 101900 | 55.398  | ug/L 99 |
| 16) Methylene chloride         | 2.70 | 84  | 73992  | 53.537  | ug/L 96 |
| 17) trans-1,2-Dichloroethene   | 2.99 | 96  | 61952  | 49.164  | ug/L 95 |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 222519 | 53.110  | ug/L 99 |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 142368 | 54.716  | ug/L 99 |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96  | 71462  | 51.123  | ug/L 98 |
| 22) 2-Butanone                 | 4.26 | 43  | 138566 | 105.454 | ug/L 97 |

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Quant Title : VOC Analysis  
QLast Update : Sat Oct 13 04:07:45 2018  
Response via : Initial Calibration

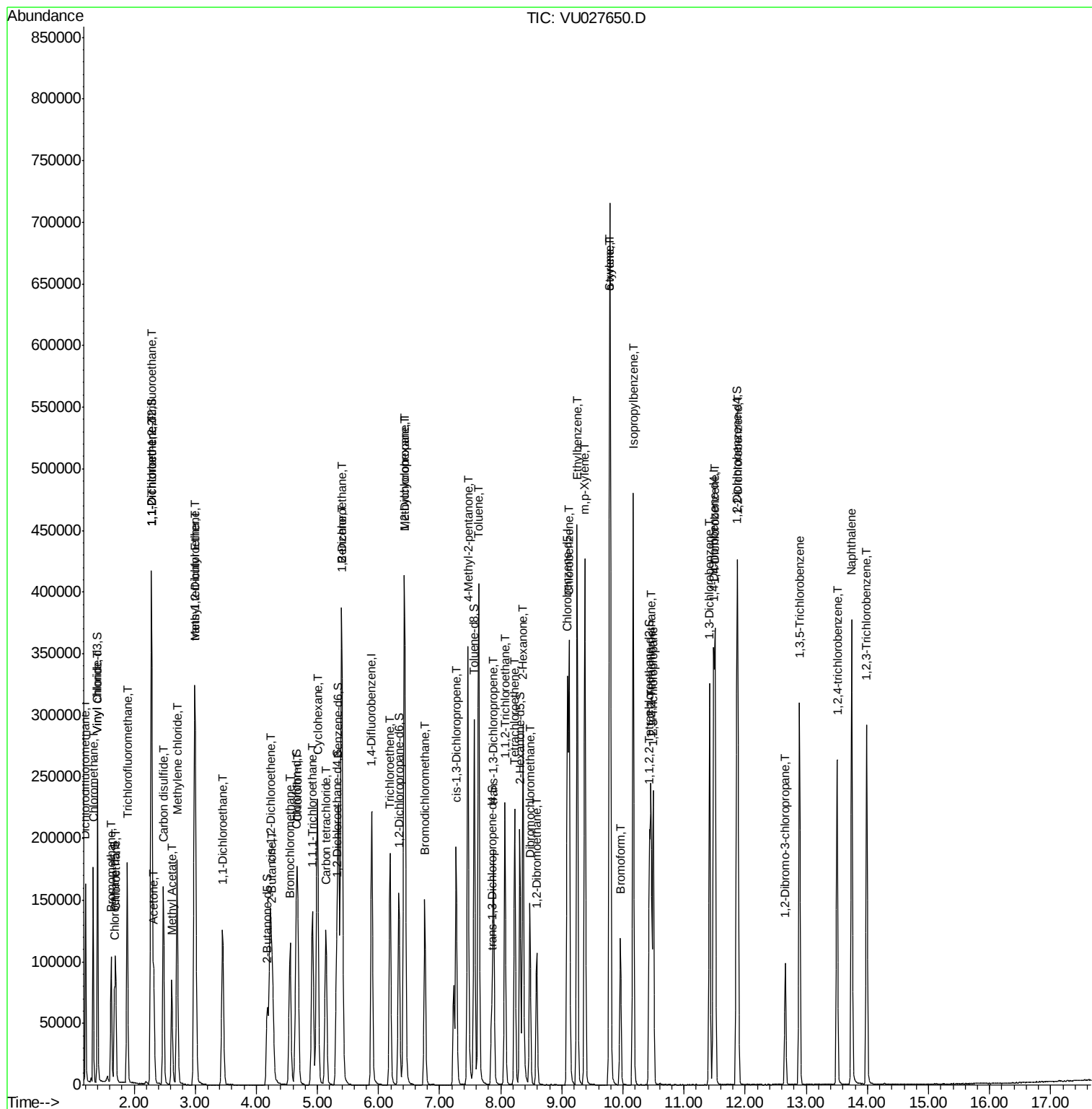
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 4.55  | 128  | 34298    | 53.804  | ug/L  | 97       |
| 25) Chloroform                 | 4.68  | 83   | 133594   | 53.150  | ug/L  | 97       |
| 27) 1,2-Dichloroethane         | 5.41  | 62   | 112380   | 55.671  | ug/L  | 99       |
| 29) Cyclohexane                | 5.00  | 56   | 127619   | 50.280  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane      | 4.92  | 97   | 108577   | 54.230  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.14  | 117  | 91584    | 54.384  | ug/L  | 99       |
| 33) Benzene                    | 5.39  | 78   | 292655   | 53.220  | ug/L  | 100      |
| 34) Trichloroethene            | 6.19  | 95   | 66518    | 50.299  | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.42  | 83   | 111381   | 48.473  | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.43  | 63   | 86493    | 54.290  | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.76  | 83   | 98414    | 54.360  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.27  | 75   | 113836   | 48.627  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 255764   | 109.629 | ug/L  | 98       |
| 42) Toluene                    | 7.64  | 91   | 292201   | 52.959  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 106507   | 49.015  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 68752    | 53.758  | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.23  | 164  | 49267    | 50.127  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.36  | 43   | 197905   | 107.430 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.48  | 129  | 73498    | 55.115  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 70358    | 51.855  | ug/L  | 99       |
| 51) Chlorobenzene              | 9.12  | 112  | 177221   | 50.806  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.25  | 91   | 313571   | 51.184  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.38  | 106  | 114828   | 51.210  | ug/L  | 97       |
| 54) o-xylene                   | 9.78  | 106  | 113107   | 52.360  | ug/L  | 99       |
| 55) Styrene                    | 9.79  | 104  | 197092   | 53.280  | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.17 | 105  | 295504   | 52.199  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 120399   | 53.730  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 98524    | 54.623  | ug/L  | 99       |
| 61) Bromoform                  | 9.96  | 173  | 51032    | 57.080  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 122294   | 49.939  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 128197   | 50.186  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 132700   | 53.231  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 25131    | 54.381  | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 89411    | 47.257  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 77282    | 44.416  | ug/L  | 99       |
| 69) Naphthalene                | 13.74 | 128  | 274828   | 51.225  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 86722    | 49.013  | ug/L  | 98       |

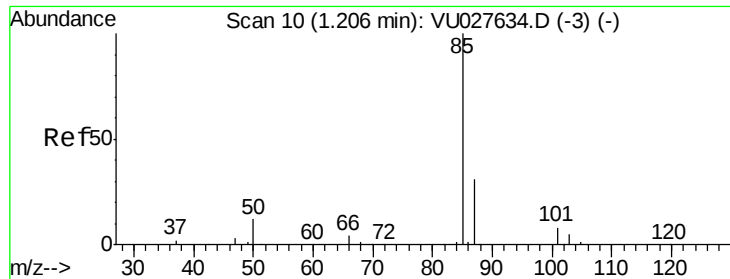
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 51.384 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Instrument :

MSVOA\_U

ClientSampleId :

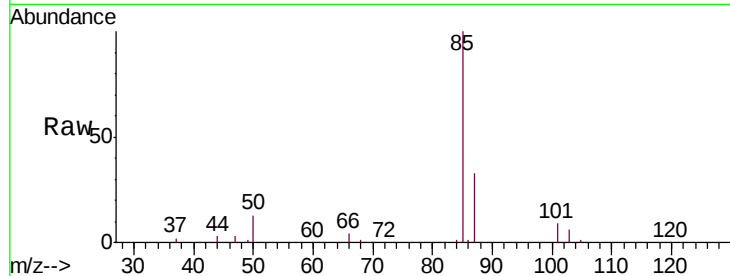
VSTD05047

Tgt Ion: 85 Resp: 89765

Ion Ratio Lower Upper

85 100

87 32.9 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU027634.D (-3) (-)

Ion 87.00 (86.70 to 87.70): VU027634.D (-3) (-)

1.21

100000

80000

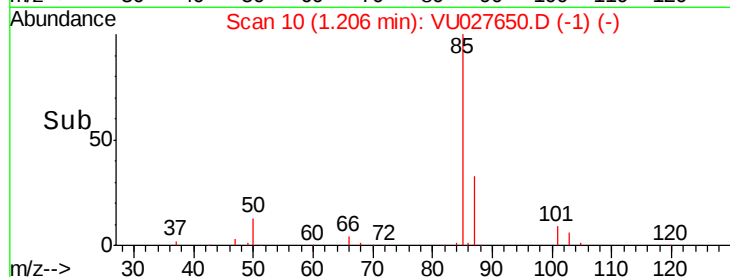
60000

40000

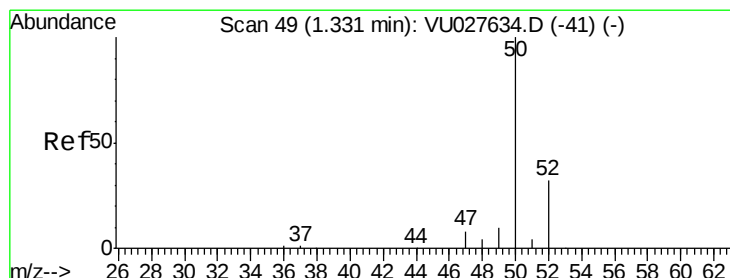
20000

0

Time-->



Time-->



#3

Chloromethane

Concen: 53.823 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU027650.D

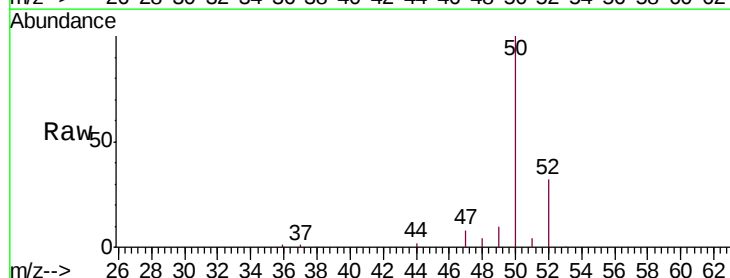
Acq: 13 Oct 2018 01:50

Tgt Ion: 50 Resp: 108043

Ion Ratio Lower Upper

50 100

52 31.7 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU027634.D (-41) (-)

Ion 52.00 (51.70 to 52.70): VU027634.D (-41) (-)

1.33

120000

100000

80000

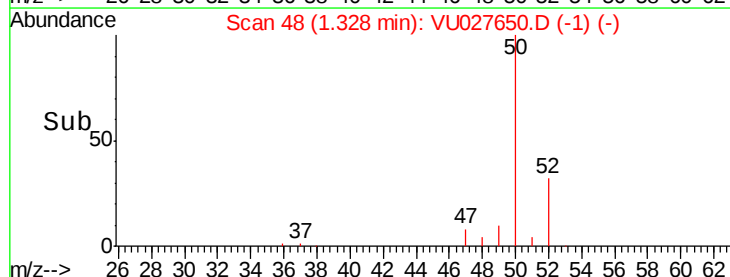
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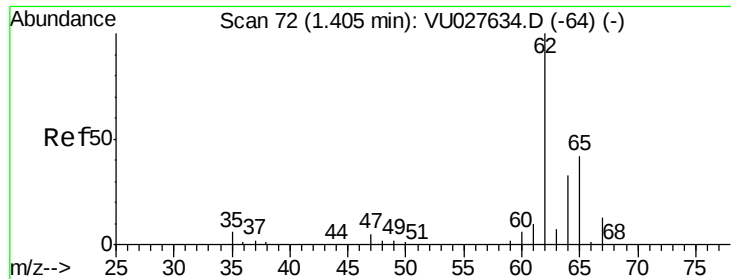
20000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 51.718 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Instrument :

MSVOA\_U

ClientSampleId :

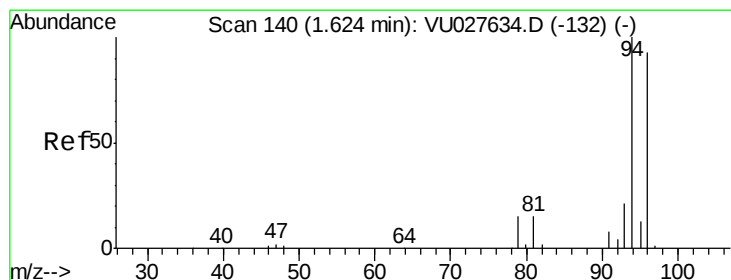
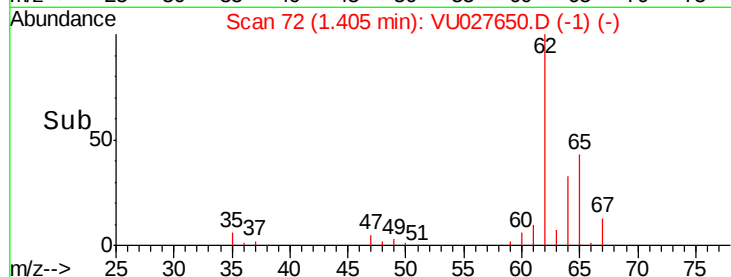
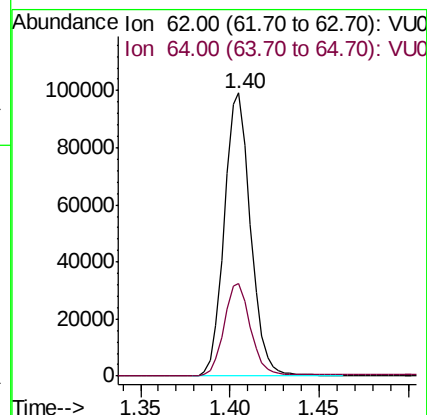
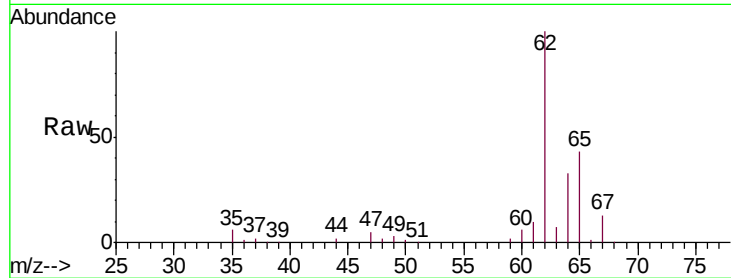
VSTD05047

Tgt Ion: 62 Resp: 101448

Ion Ratio Lower Upper

62 100

64 32.6 23.5 43.7



#6

Bromomethane

Concen: 53.995 ug/L

RT: 1.62 min Scan# 140

Delta R.T. 0.00 min

Lab File: VU027650.D

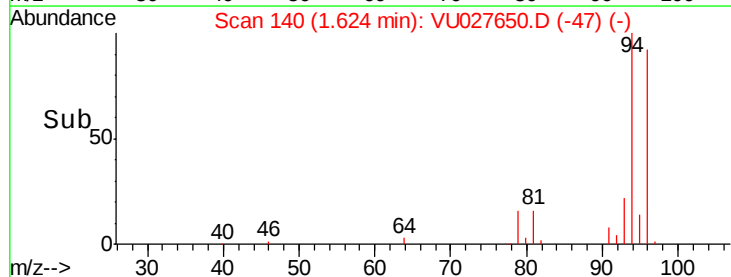
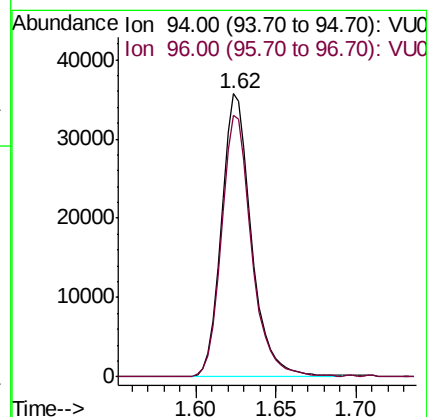
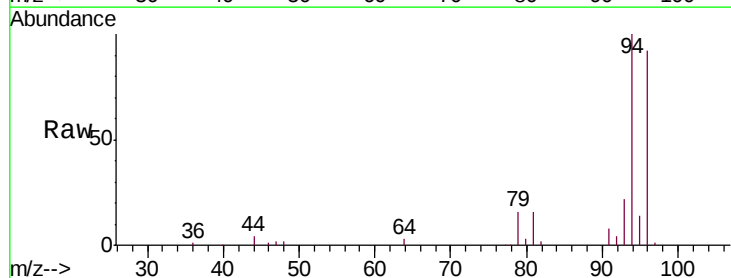
Acq: 13 Oct 2018 01:50

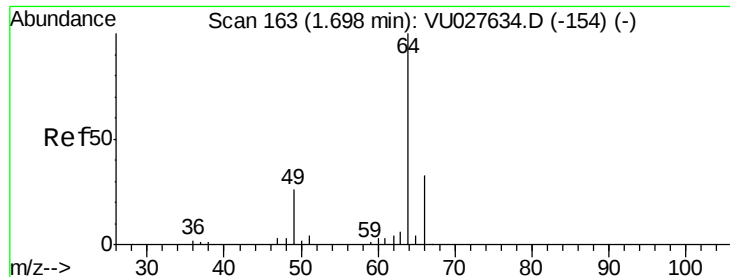
Tgt Ion: 94 Resp: 46285

Ion Ratio Lower Upper

94 100

96 92.4 66.6 123.8





#8

Chloroethane

Concen: 50.536 ug/L

RT: 1.70 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Instrument :

MSVOA\_U

ClientSampleId :

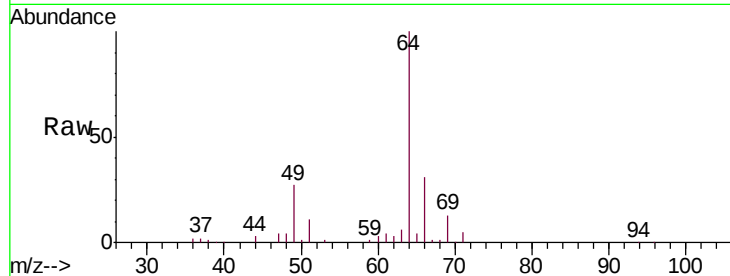
VSTD05047

Tgt Ion: 64 Resp: 59407

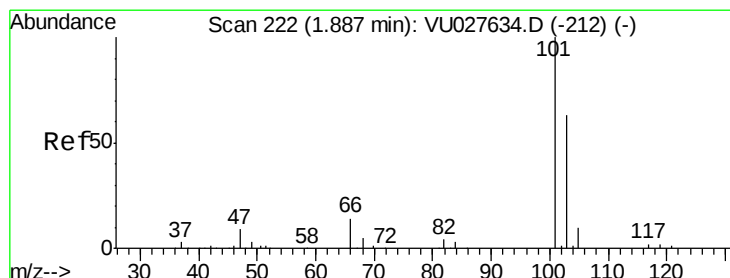
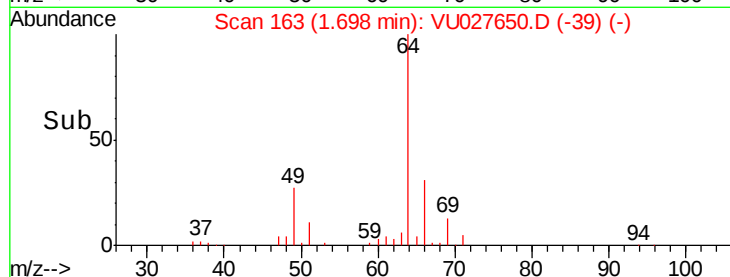
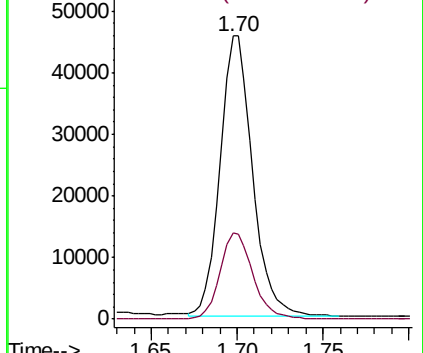
Ion Ratio Lower Upper

64 100

66 30.7 22.0 40.8



Abundance Ion 64.00 (63.70 to 64.70): VU027634.D (-154) (-)



#9

Trichlorofluoromethane

Concen: 55.285 ug/L

RT: 1.89 min Scan# 222

Delta R.T. 0.00 min

Lab File: VU027650.D

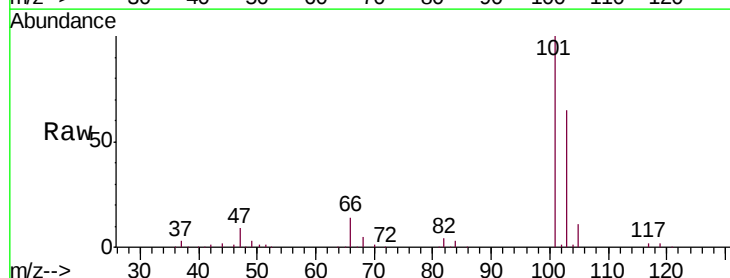
Acq: 13 Oct 2018 01:50

Tgt Ion: 101 Resp: 108550

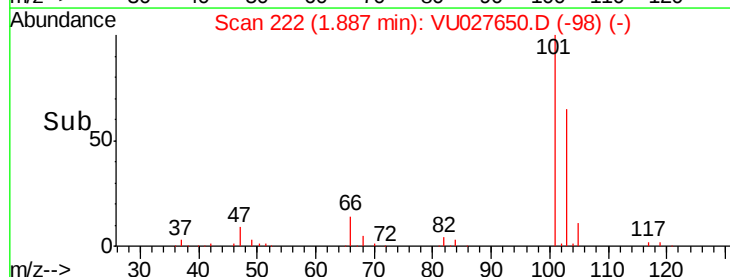
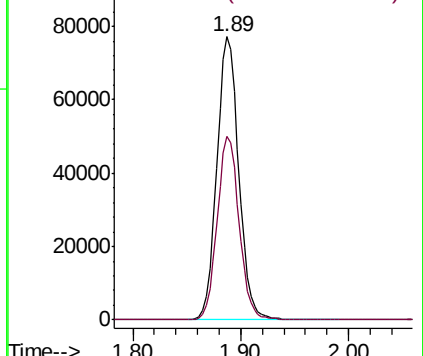
Ion Ratio Lower Upper

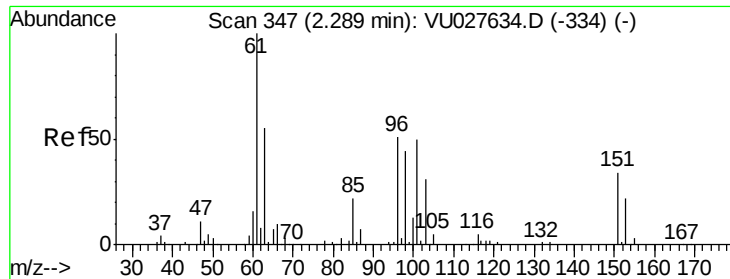
101 100

103 65.0 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): VU027634.D (-212) (-)





#10

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

Concen: 52.062 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU027650.D

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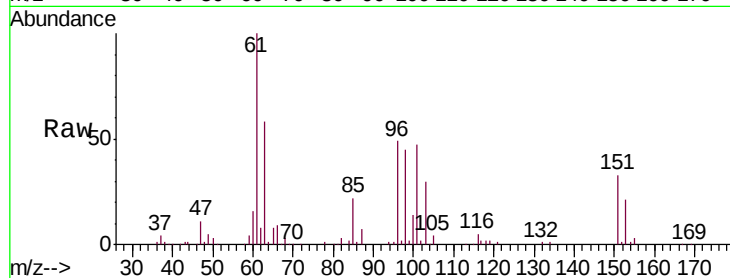
Tgt Ion:101 Resp: 60687

Ion Ratio Lower Upper

101 100

85 46.3 35.9 53.9

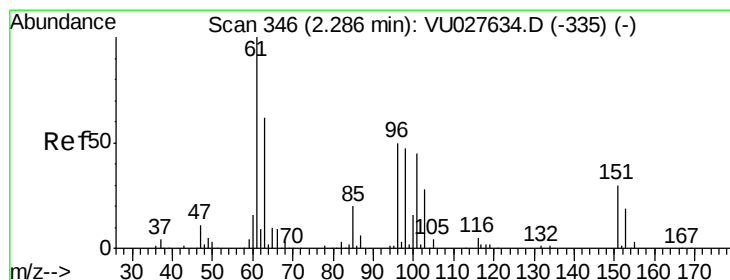
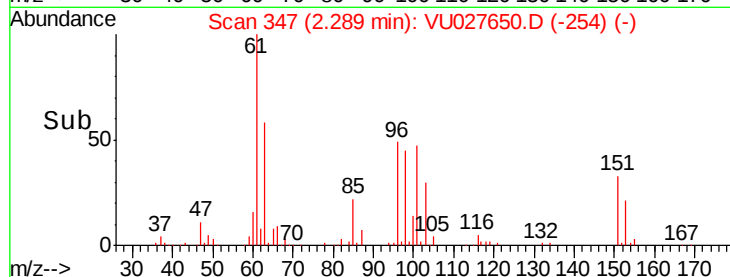
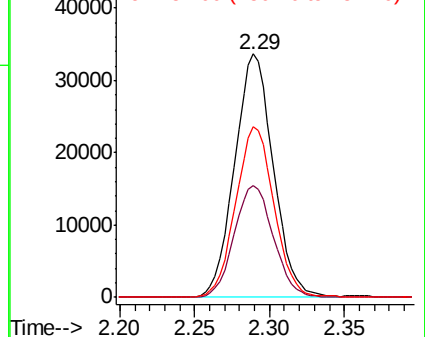
151 69.4 55.7 83.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 49.981 ug/L

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

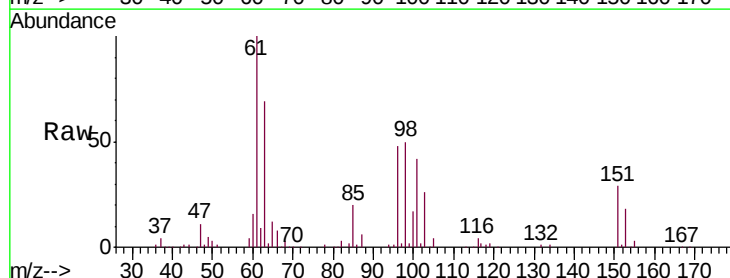
Tgt Ion: 96 Resp: 56874

Ion Ratio Lower Upper

96 100

61 208.1 135.2 251.0

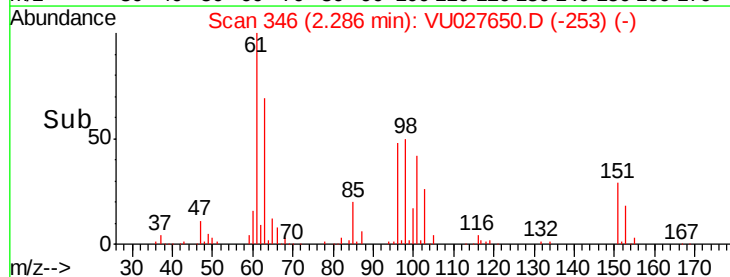
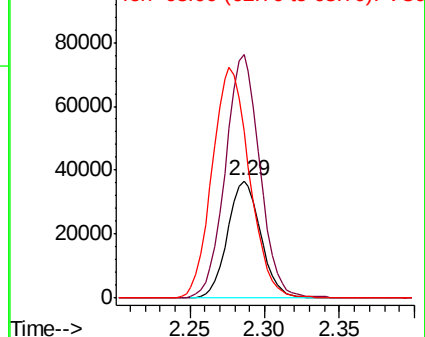
63 142.6 94.3 175.1

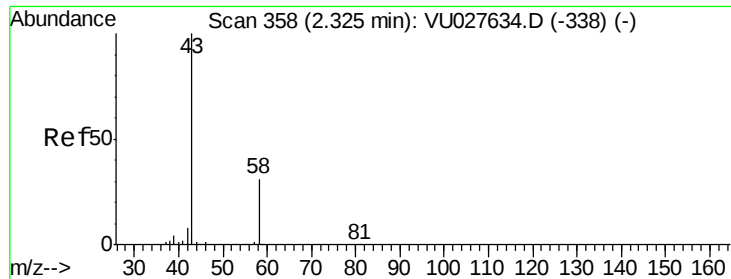


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 96.504 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

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Acq: 13 Oct 2018 01:50

Instrument :

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ClientSampleId :

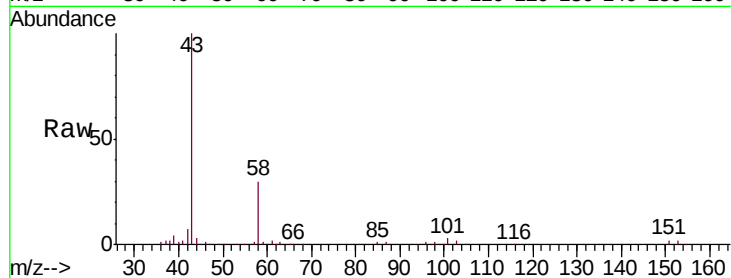
VSTD05047

Tgt Ion: 43 Resp: 88584

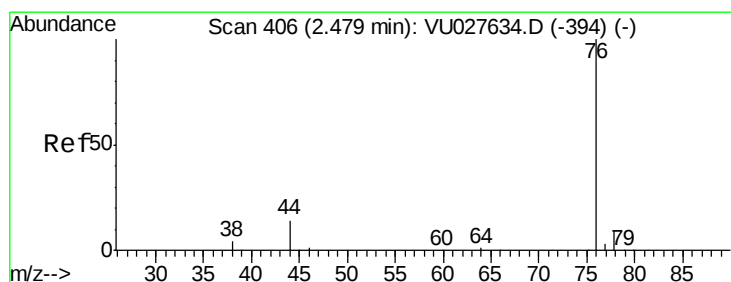
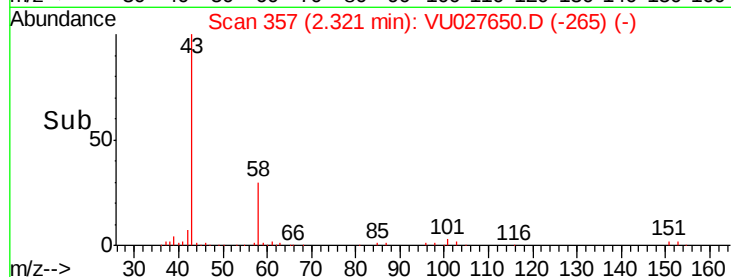
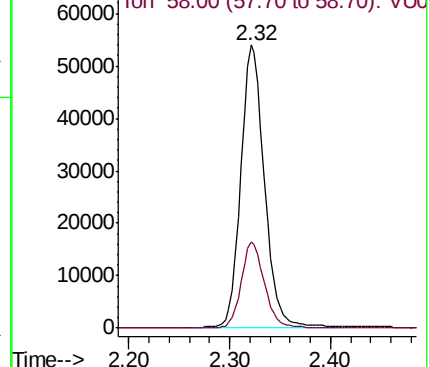
Ion Ratio Lower Upper

43 100

58 29.5 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VU027634.D (-338) (-)



#14

Carbon disulfide

Concen: 46.357 ug/L

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027650.D

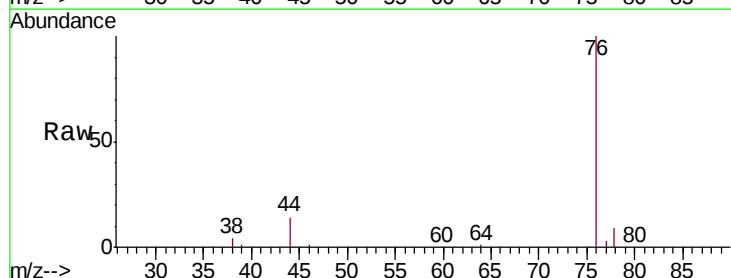
Acq: 13 Oct 2018 01:50

Tgt Ion: 76 Resp: 193766

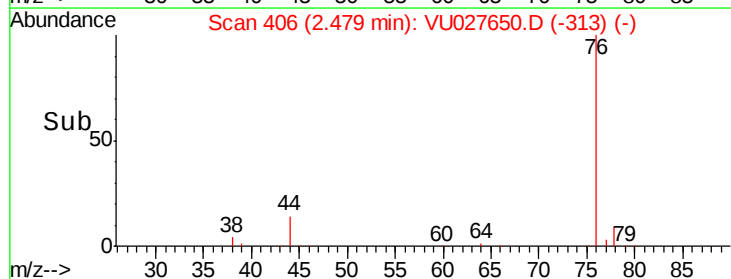
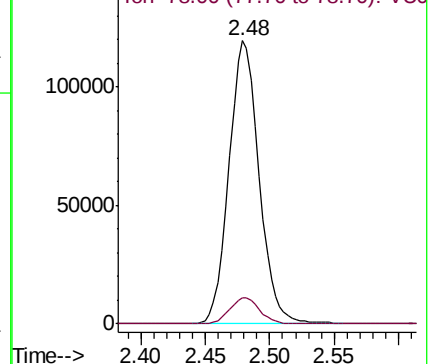
Ion Ratio Lower Upper

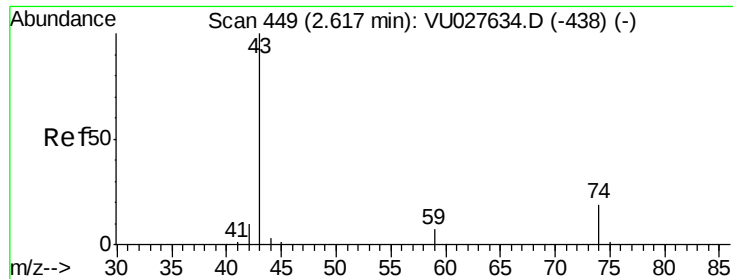
76 100

78 9.0 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU027634.D (-394) (-)

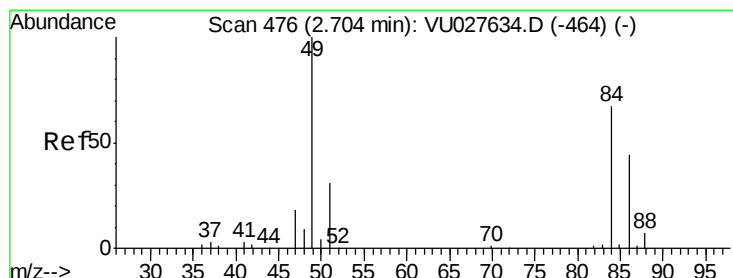
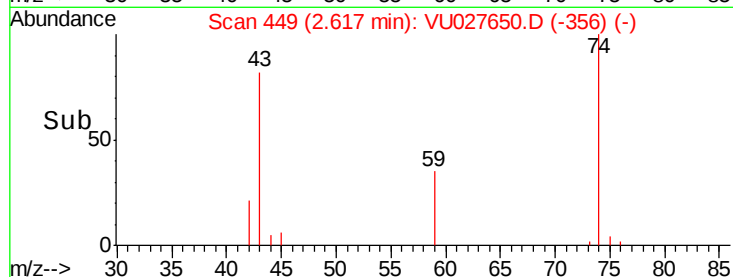
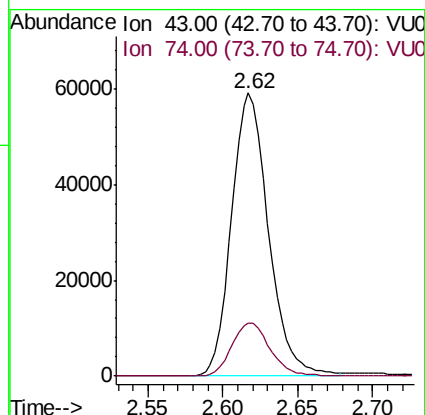
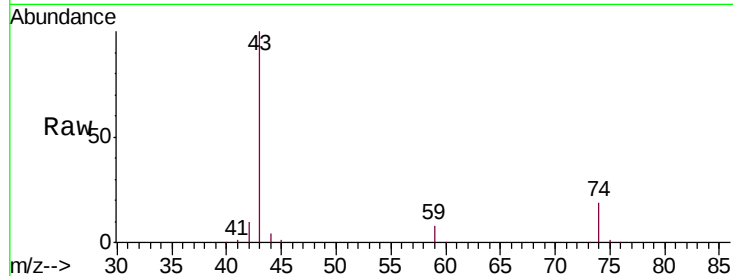




#15  
Methyl Acetate  
Concen: 55.398 ug/L  
RT: 2.62 min Scan# 449  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

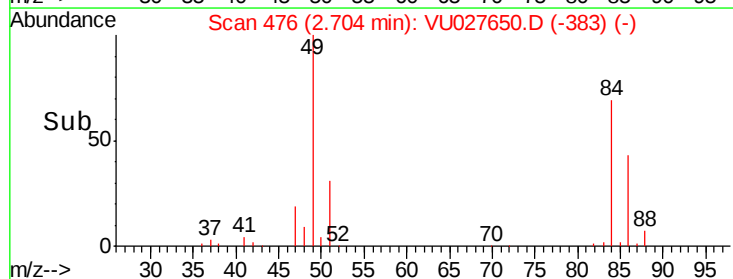
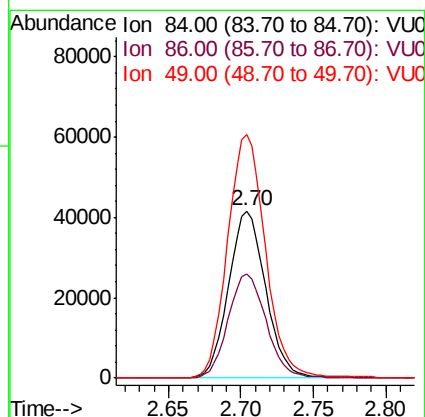
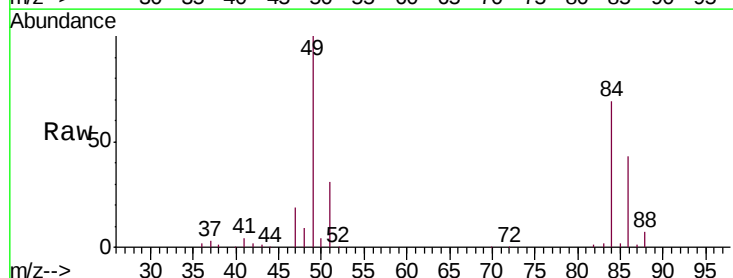
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05047

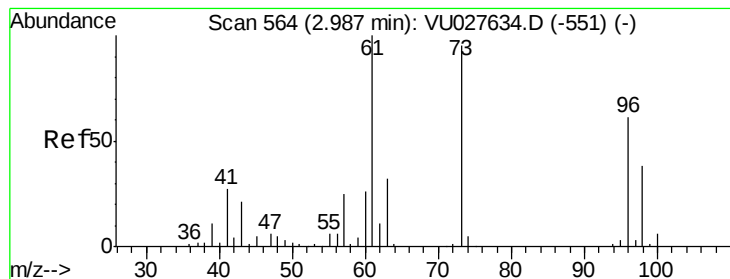
Tgt Ion: 43 Resp: 101900  
Ion Ratio Lower Upper  
43 100  
74 19.4 16.0 24.0



#16  
Methylene chloride  
Concen: 53.537 ug/L  
RT: 2.70 min Scan# 476  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

Tgt Ion: 84 Resp: 73992  
Ion Ratio Lower Upper  
84 100  
86 62.3 44.6 82.8  
49 145.7 98.3 182.5





#17

trans-1,2-Dichloroethene

Concen: 49.164 ug/L

RT: 2.99 min Scan# 564

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05047

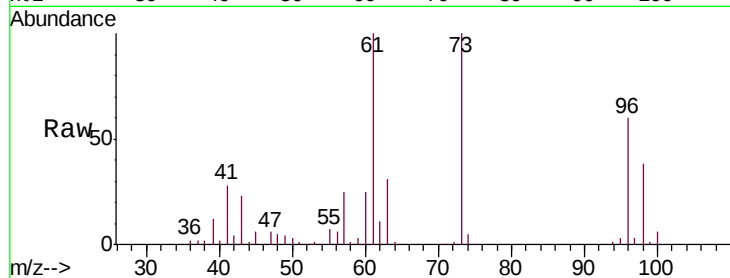
Tgt Ion: 96 Resp: 61952

Ion Ratio Lower Upper

96 100

61 167.1 110.9 205.9

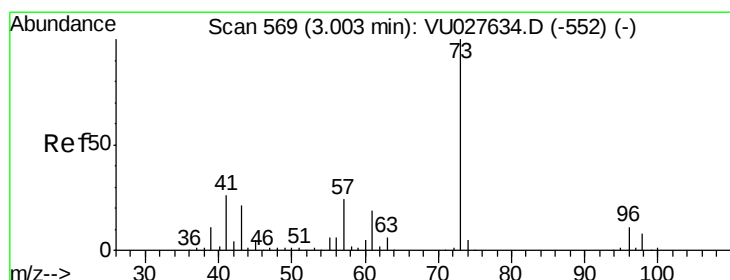
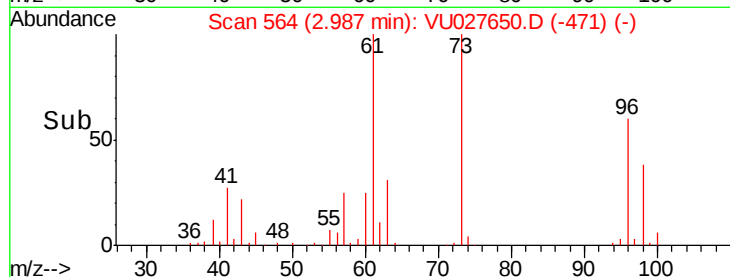
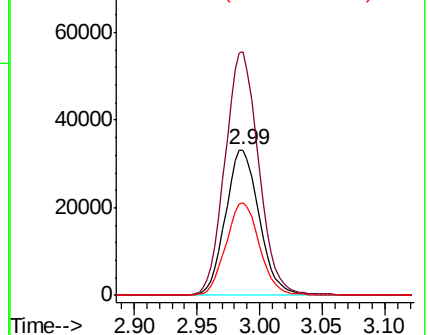
98 64.0 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 53.110 ug/L

RT: 3.00 min Scan# 569

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

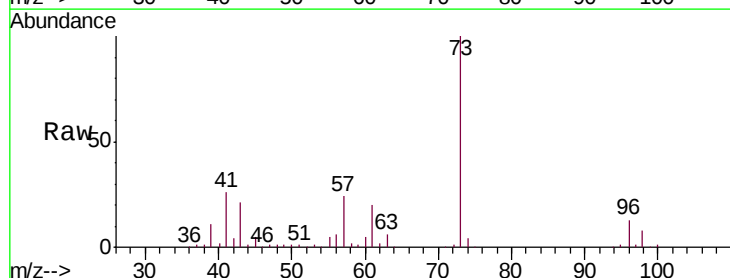
Tgt Ion: 73 Resp: 222519

Ion Ratio Lower Upper

73 100

43 21.5 16.5 24.7

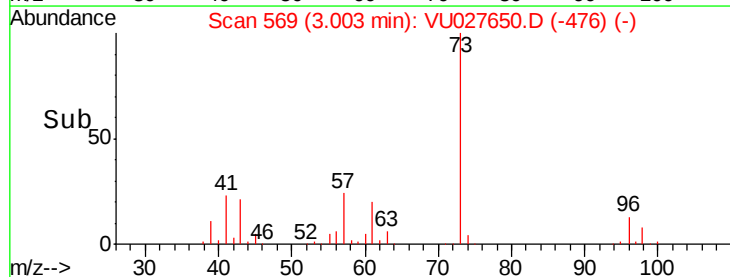
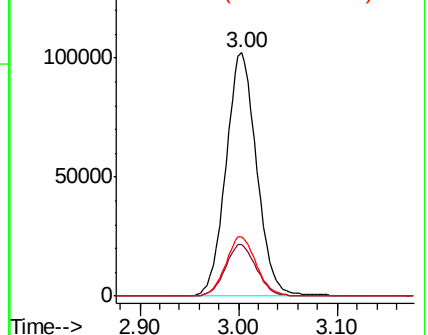
57 24.2 19.4 29.0

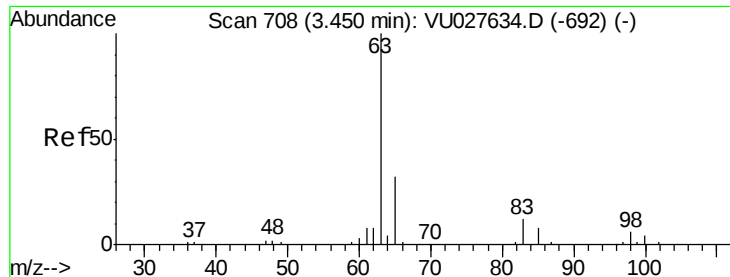


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

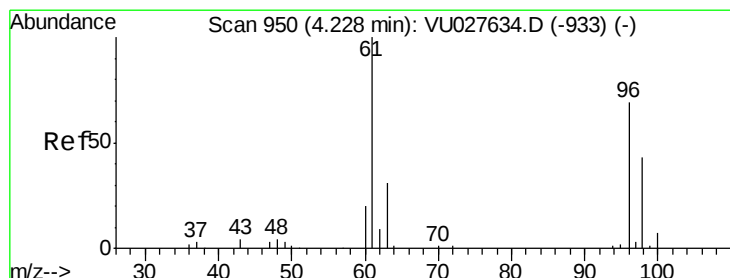
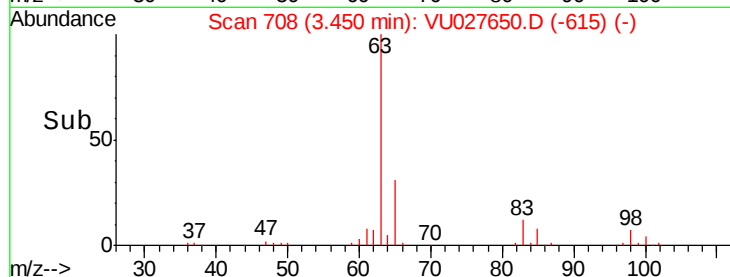
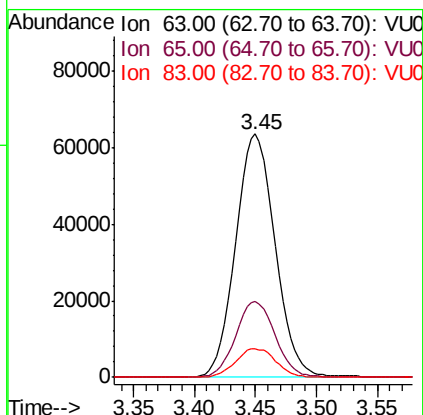
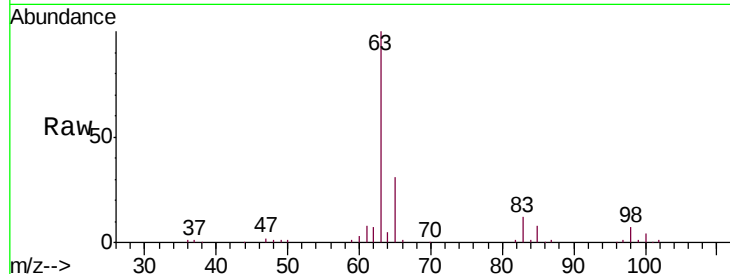




#19  
 1,1-Dichloroethane  
 Concen: 54.716 ug/L  
 RT: 3.45 min Scan# 708  
 Delta R.T. 0.00 min  
 Lab File: VU027650.D  
 Acq: 13 Oct 2018 01:50

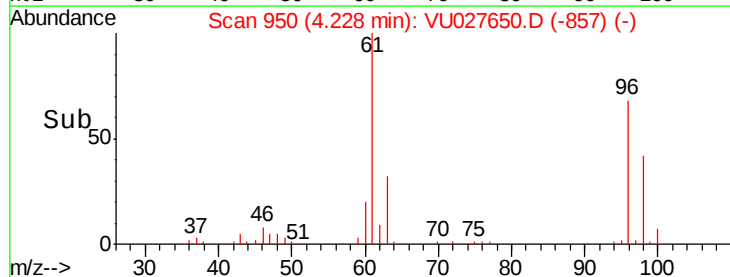
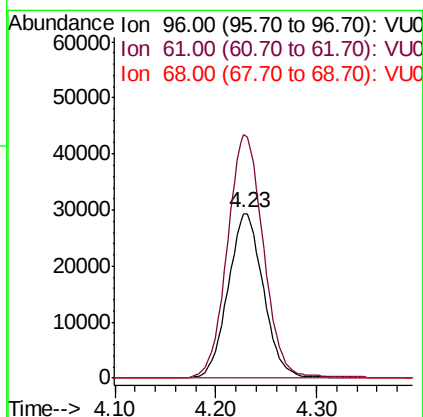
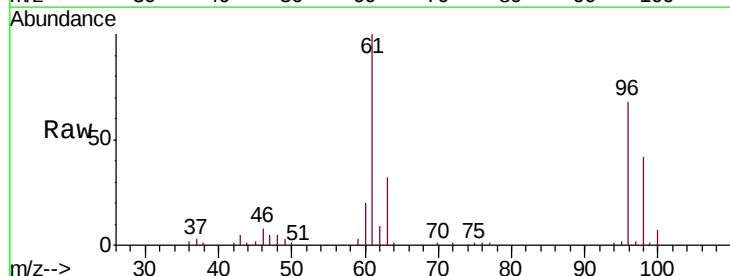
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05047

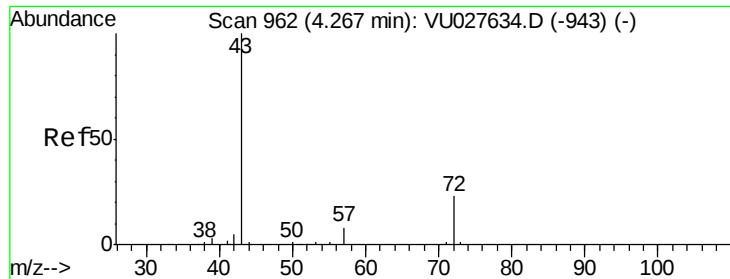
Tgt Ion: 63 Resp: 142368  
 Ion Ratio Lower Upper  
 63 100  
 65 31.0 22.3 41.3  
 83 11.6 8.4 15.6



#20  
 cis-1,2-Dichloroethene  
 Concen: 51.123 ug/L  
 RT: 4.23 min Scan# 950  
 Delta R.T. 0.00 min  
 Lab File: VU027650.D  
 Acq: 13 Oct 2018 01:50

Tgt Ion: 96 Resp: 71462  
 Ion Ratio Lower Upper  
 96 100  
 61 147.7 102.0 189.4  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 105.454 ug/L

RT: 4.26 min Scan# 961

Delta R.T. -0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Instrument :

MSVOA\_U

ClientSampleId :

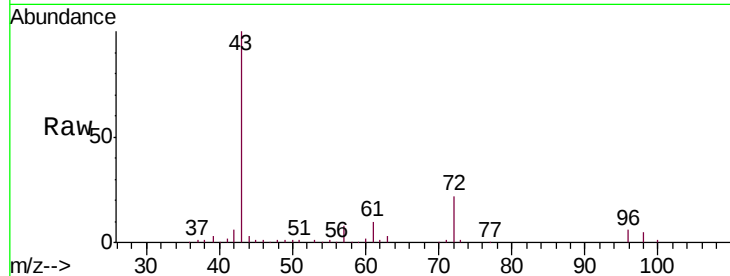
VSTD05047

Tgt Ion: 43 Resp: 138566

Ion Ratio Lower Upper

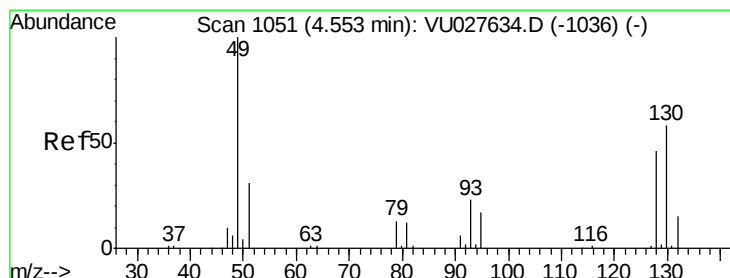
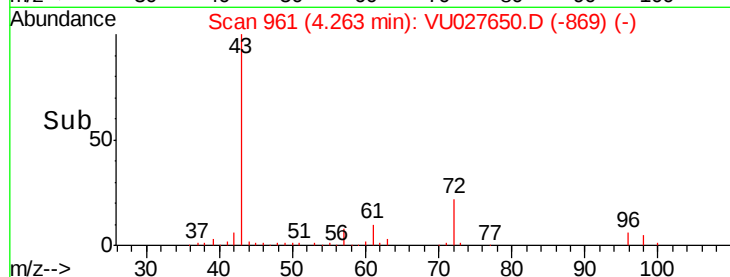
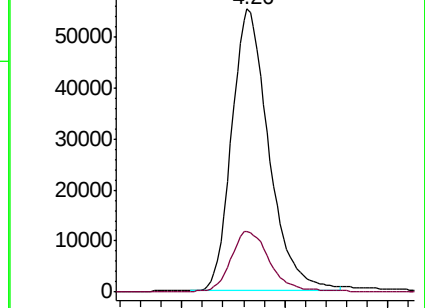
43 100

72 22.3 11.9 35.5



Abundance Ion 43.00 (42.70 to 43.70): VU027634.D (-943) (-)

Ion 72.00 (71.70 to 72.70): VU027634.D (-943) (-)



#23

Bromochloromethane

Concen: 53.804 ug/L

RT: 4.55 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Tgt Ion:128 Resp: 34298

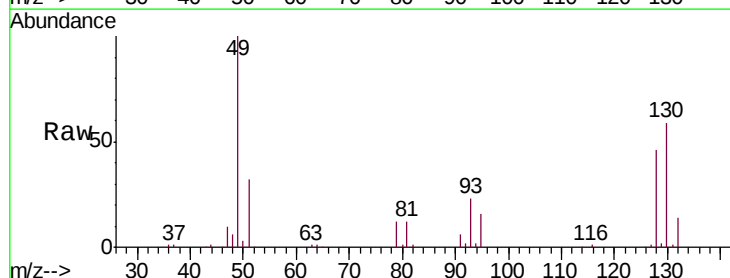
Ion Ratio Lower Upper

128 100

49 216.4 146.9 272.7

130 127.3 89.2 165.6

51 69.6 52.2 78.4

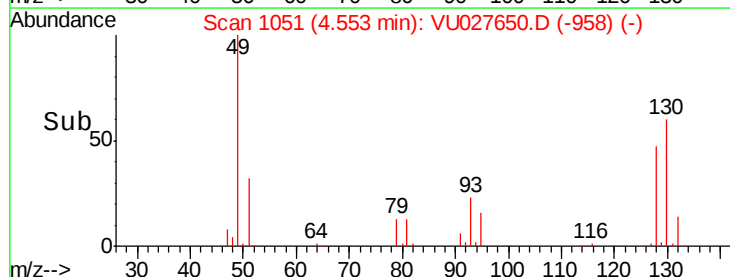
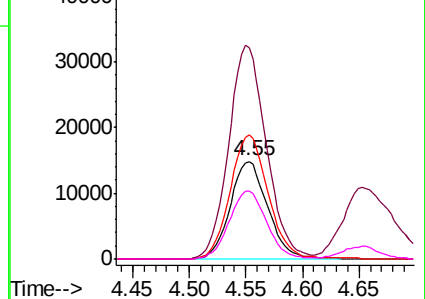


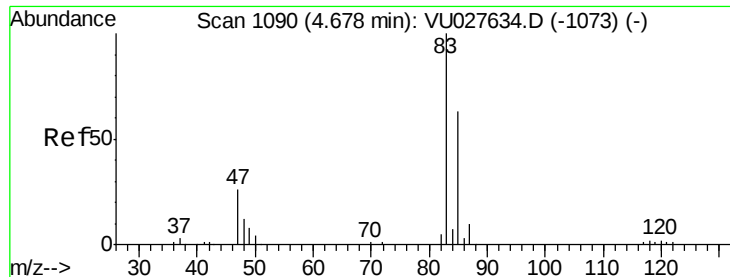
Abundance Ion 128.00 (127.70 to 128.70): VU027634.D (-1036) (-)

Ion 49.00 (48.70 to 49.70): VU027634.D (-1036) (-)

Ion 130.00 (129.70 to 130.70): VU027634.D (-1036) (-)

Ion 51.00 (50.70 to 51.70): VU027634.D (-1036) (-)

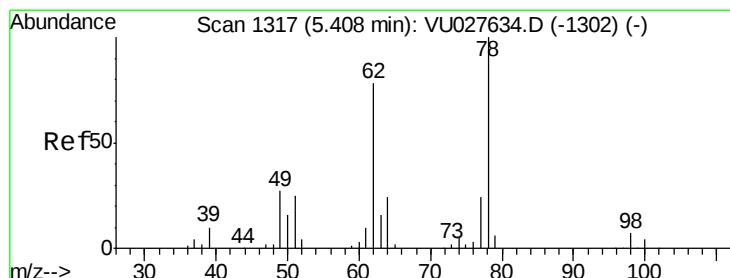
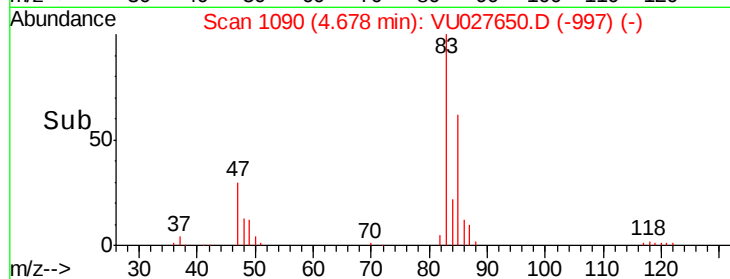
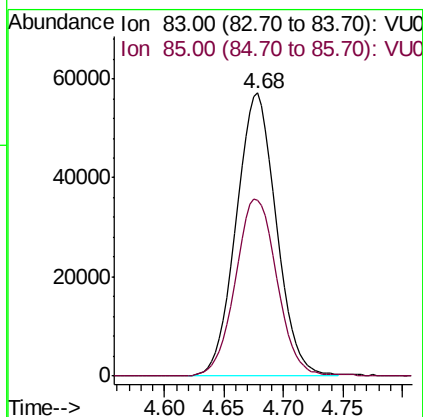
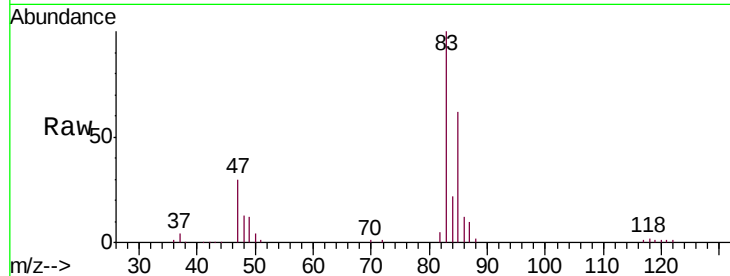




#25  
Chloroform  
Concen: 53.150 ug/L  
RT: 4.68 min Scan# 1090  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

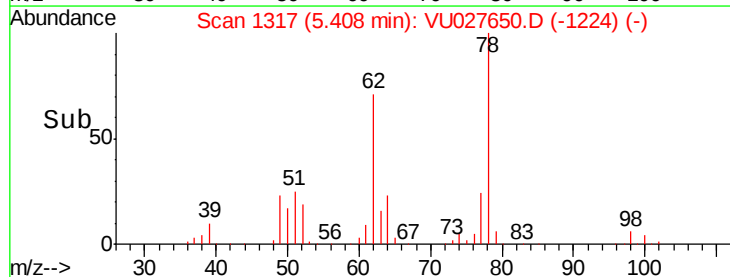
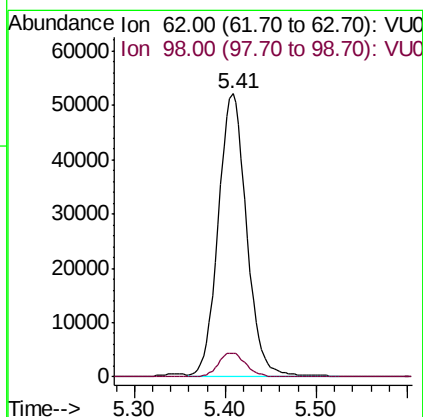
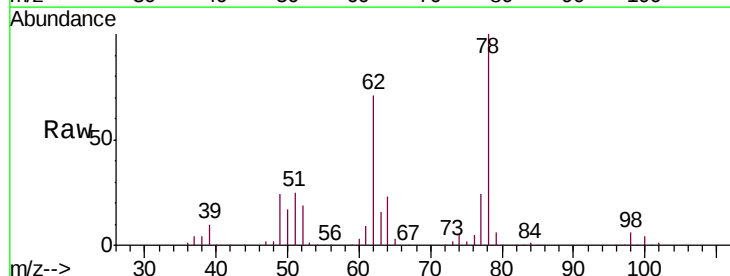
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05047

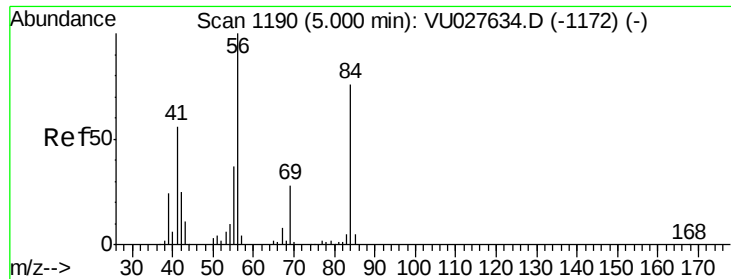
Tgt Ion: 83 Resp: 133594  
Ion Ratio Lower Upper  
83 100  
85 62.1 45.0 83.6



#27  
1,2-Dichloroethane  
Concen: 55.671 ug/L  
RT: 5.41 min Scan# 1317  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

Tgt Ion: 62 Resp: 112380  
Ion Ratio Lower Upper  
62 100  
98 8.5 7.1 10.7

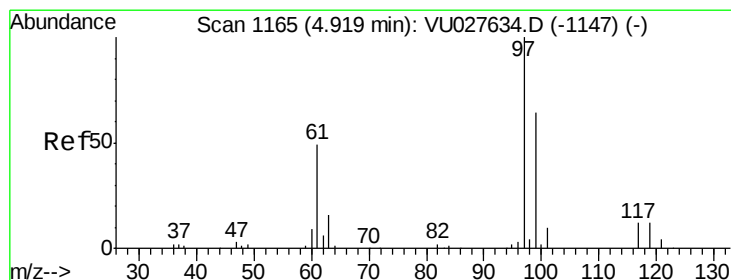
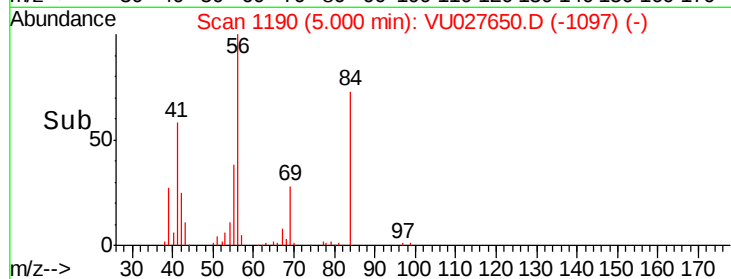
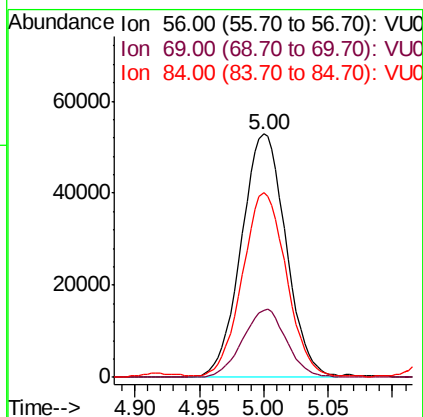
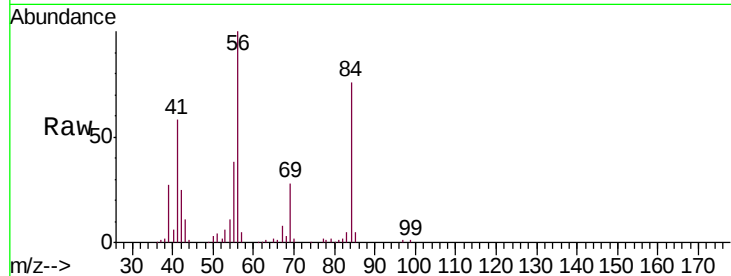




#29  
Cyclohexane  
Concen: 50.280 ug/L  
RT: 5.00 min Scan# 1190  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

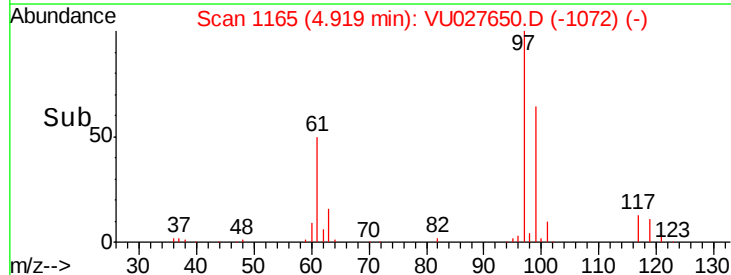
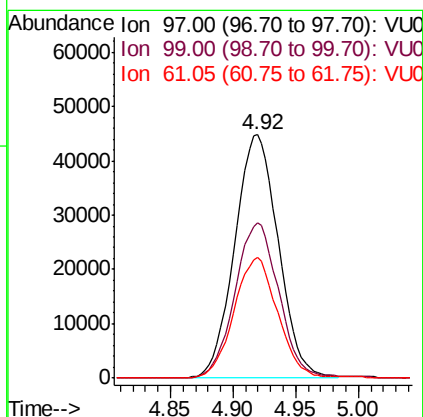
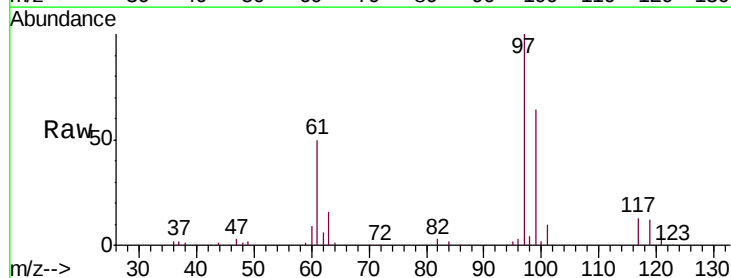
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05047

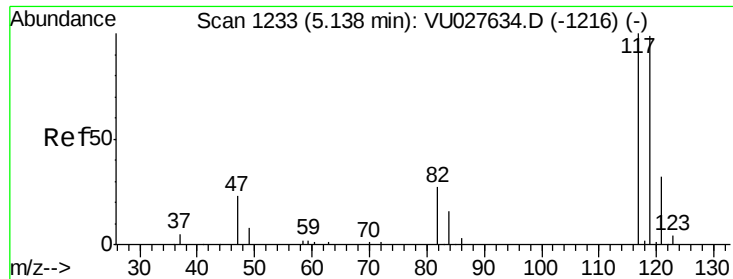
Tgt Ion: 56 Resp: 127619  
Ion Ratio Lower Upper  
56 100  
69 27.4 22.5 33.7  
84 75.2 60.9 91.3



#30  
1,1,1-Trichloroethane  
Concen: 54.230 ug/L  
RT: 4.92 min Scan# 1165  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

Tgt Ion: 97 Resp: 108577  
Ion Ratio Lower Upper  
97 100  
99 64.1 50.9 76.3  
61 49.5 38.2 57.4

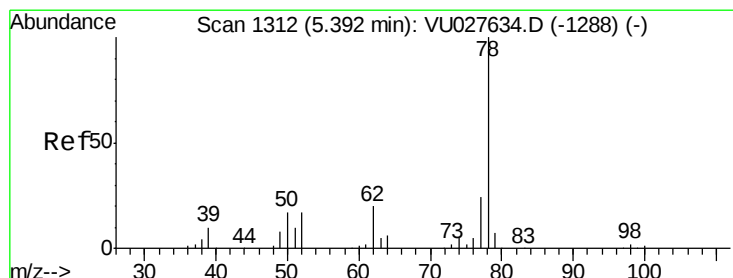
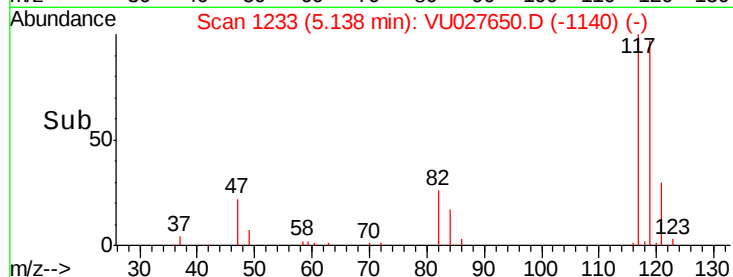
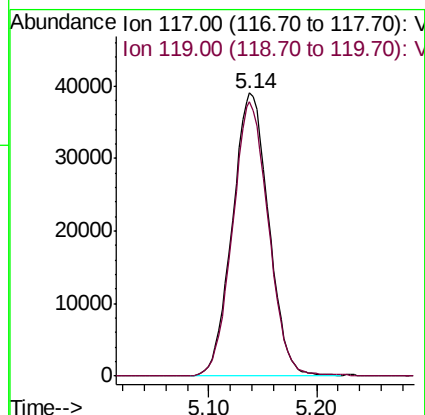
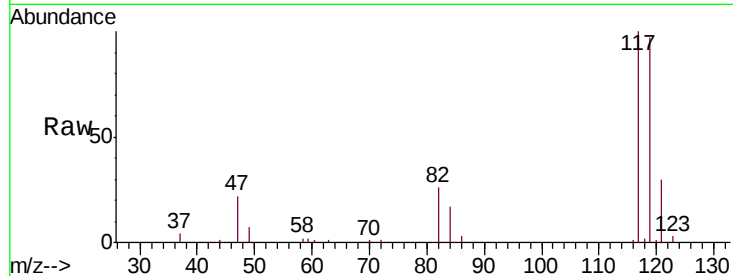




#31  
Carbon tetrachloride  
Concen: 54.384 ug/L  
RT: 5.14 min Scan# 1233  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

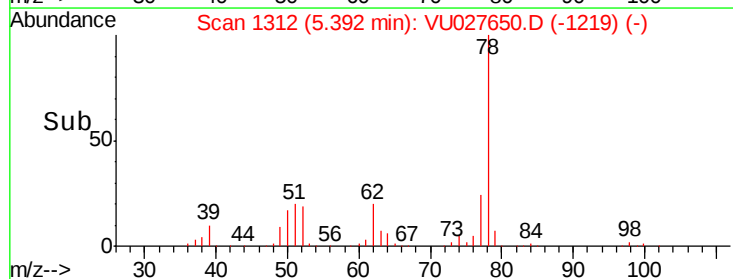
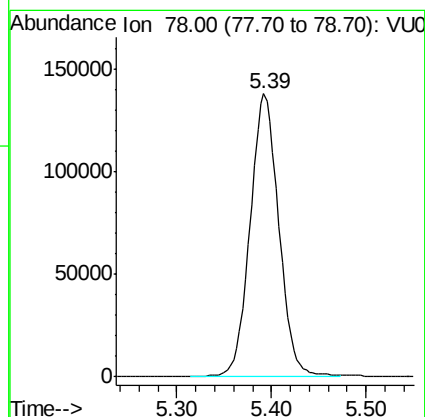
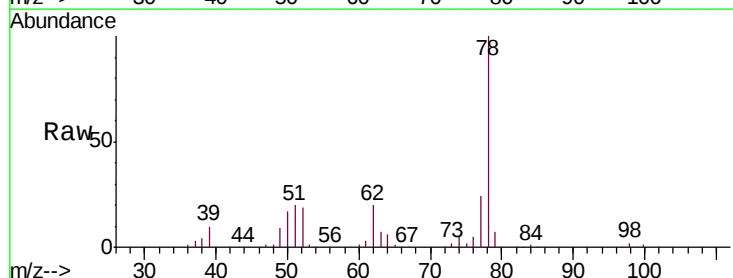
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05047

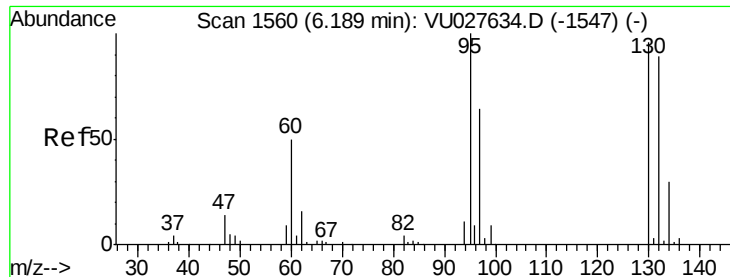
Tgt Ion:117 Resp: 91584  
Ion Ratio Lower Upper  
117 100  
119 95.5 76.8 115.2



#33  
Benzene  
Concen: 53.220 ug/L  
RT: 5.39 min Scan# 1312  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

Tgt Ion: 78 Resp: 292655





#34

Trichloroethene

Concen: 50.299 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05047

Tgt Ion: 95 Resp: 66518

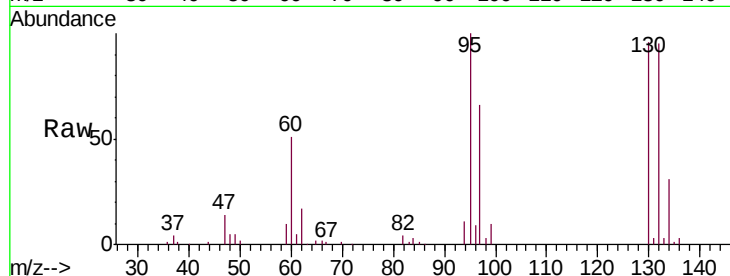
Ion Ratio Lower Upper

95 100

97 66.4 44.9 83.3

132 94.9 64.8 120.4

130 96.1 67.1 124.7

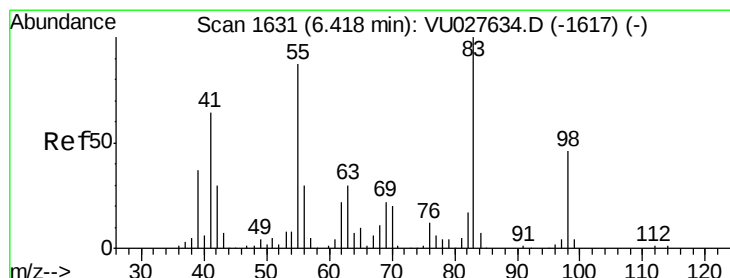
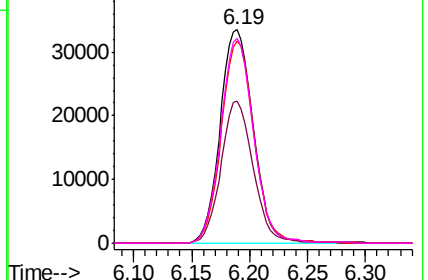
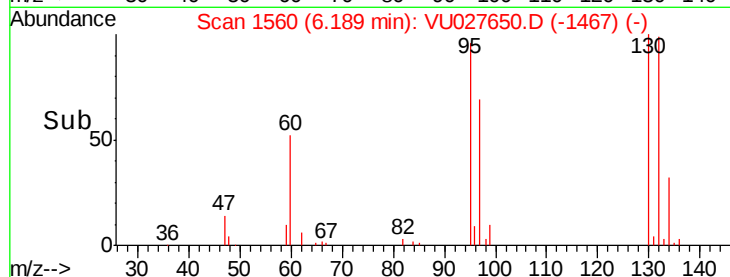


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 48.473 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

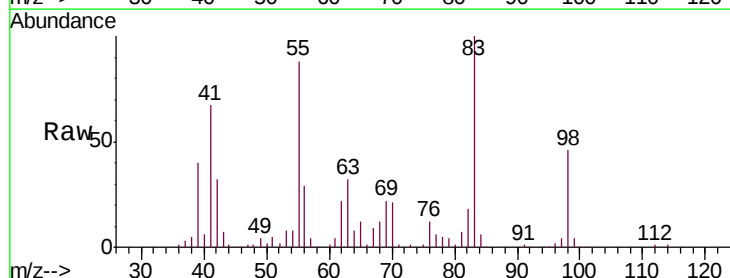
Tgt Ion: 83 Resp: 111381

Ion Ratio Lower Upper

83 100

55 90.3 69.9 104.9

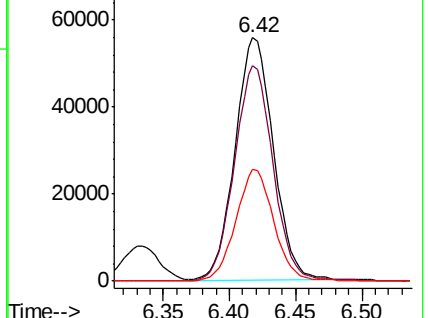
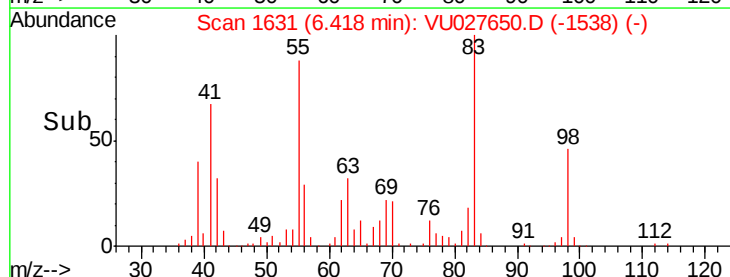
98 45.9 37.1 55.7

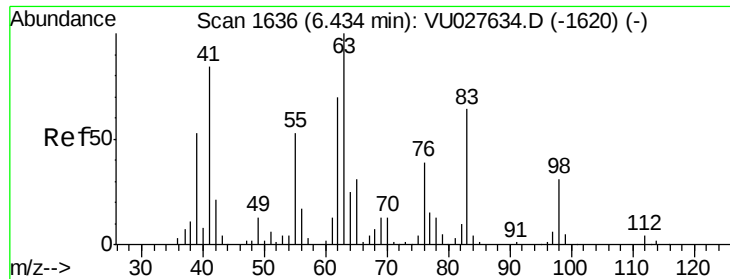


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

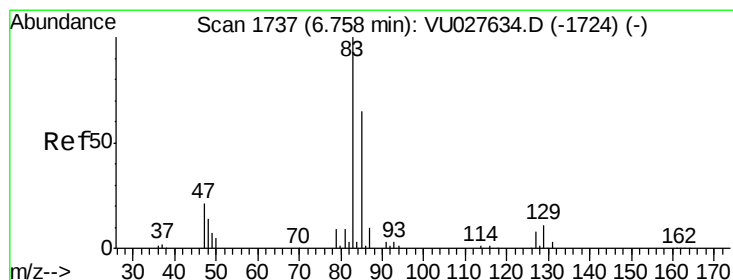
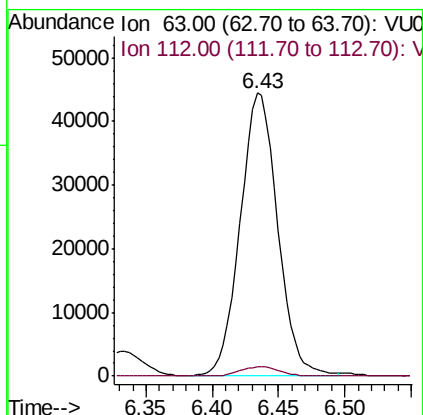
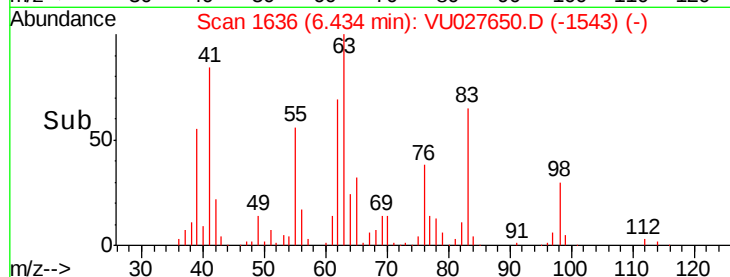
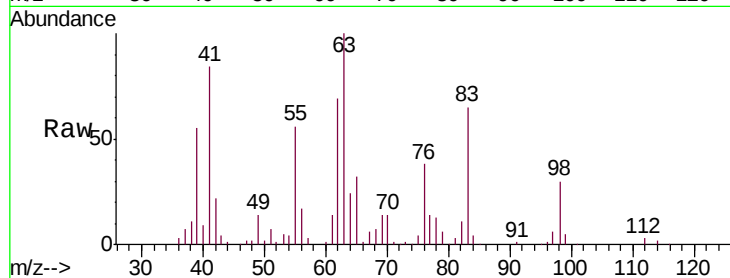




#37  
 1,2-Dichloropropane  
 Concen: 54.290 ug/L  
 RT: 6.43 min Scan# 1636  
 Delta R.T. 0.00 min  
 Lab File: VU027650.D  
 Acq: 13 Oct 2018 01:50

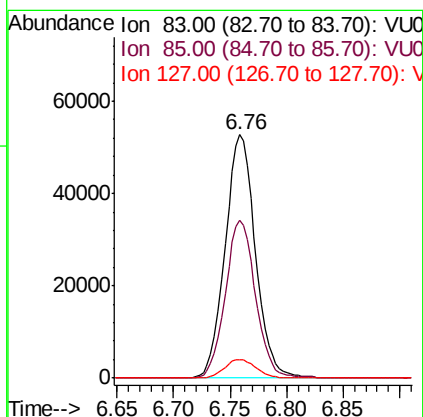
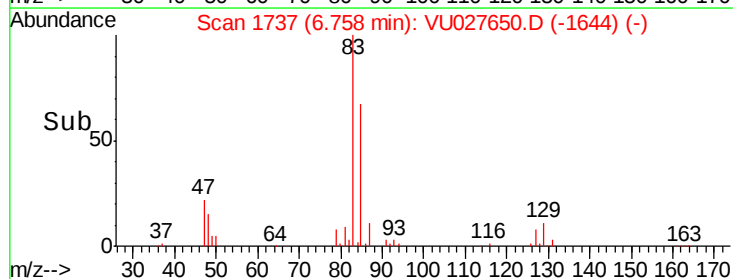
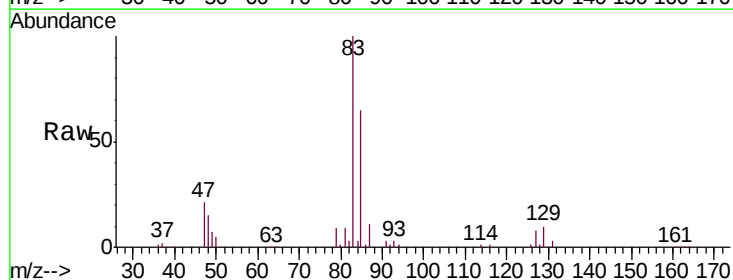
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05047

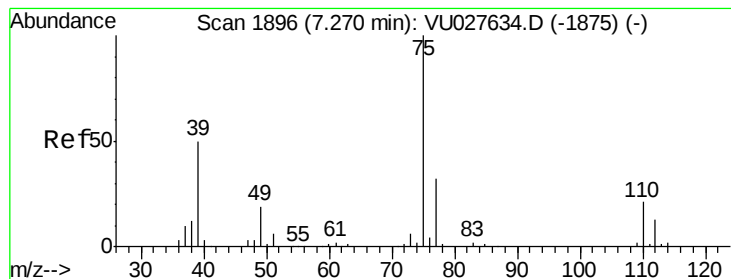
Tgt Ion: 63 Resp: 86493  
 Ion Ratio Lower Upper  
 63 100  
 112 3.6 2.9 4.3



#38  
 Bromodichloromethane  
 Concen: 54.360 ug/L  
 RT: 6.76 min Scan# 1737  
 Delta R.T. 0.00 min  
 Lab File: VU027650.D  
 Acq: 13 Oct 2018 01:50

Tgt Ion: 83 Resp: 98414  
 Ion Ratio Lower Upper  
 83 100  
 85 64.8 45.1 83.7  
 127 7.7 6.3 9.5



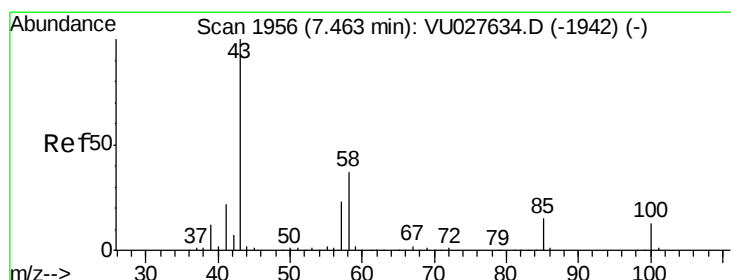
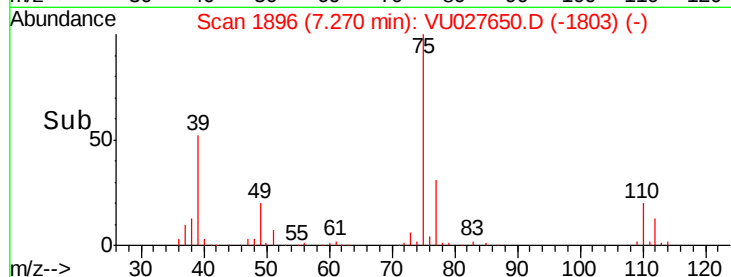
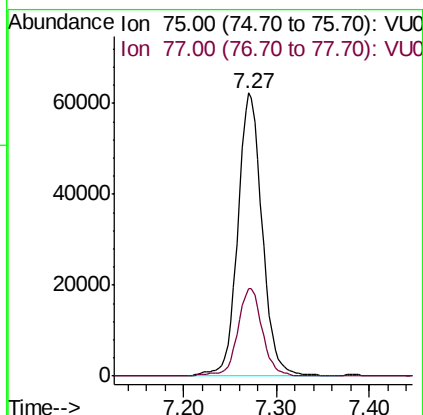
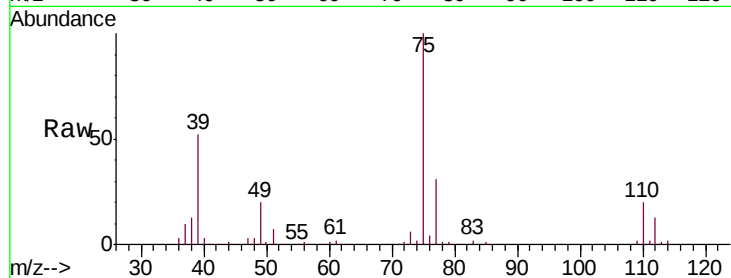


#39

cis-1,3-Dichloropropene  
Concen: 48.627 ug/L  
RT: 7.27 min Scan# 1896  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05047

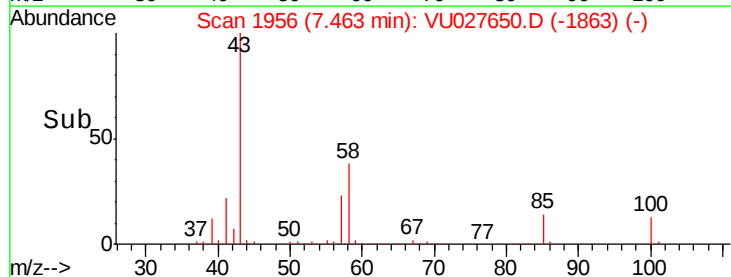
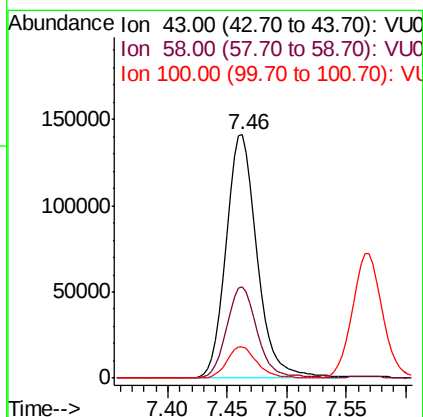
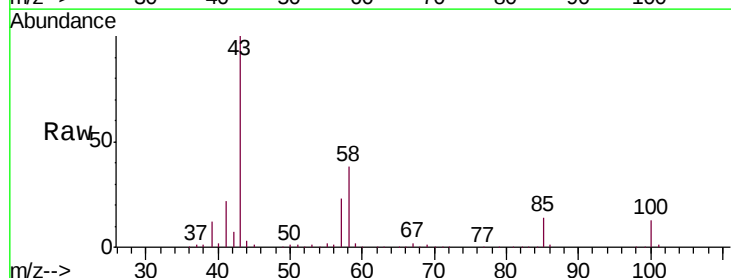
Tgt Ion: 75 Resp: 113836  
Ion Ratio Lower Upper  
75 100  
77 30.9 22.1 41.1

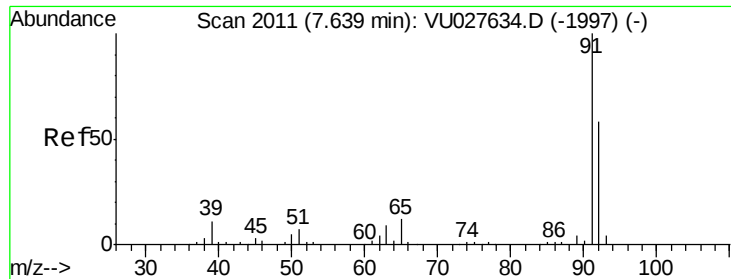


#40

4-Methyl-2-pentanone  
Concen: 109.629 ug/L  
RT: 7.46 min Scan# 1956  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

Tgt Ion: 43 Resp: 255764  
Ion Ratio Lower Upper  
43 100  
58 37.3 30.7 46.1  
100 12.6 10.2 15.4





#42

Toluene

Concen: 52.959 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Instrument :

MSVOA\_U

ClientSampleId :

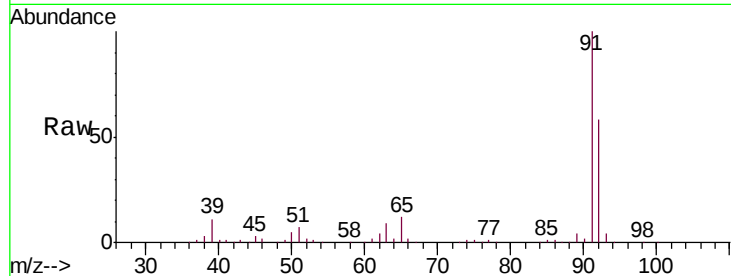
VSTD05047

Tgt Ion: 91 Resp: 292201

Ion Ratio Lower Upper

91 100

92 58.5 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU027634.D (-1997) (-)

Ion 92.00 (91.70 to 92.70): VU027634.D (-1997) (-)

7.64

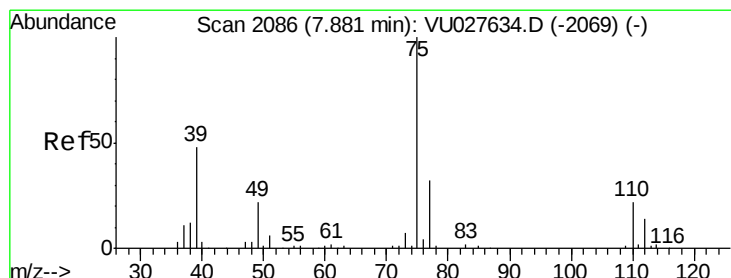
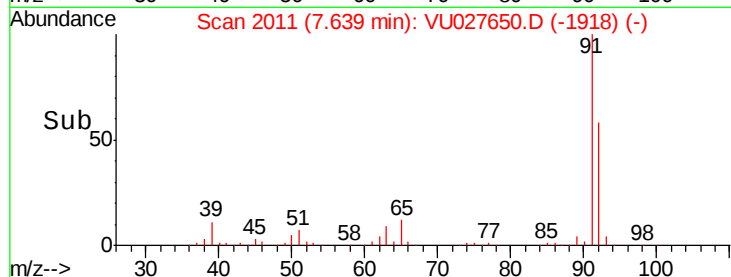
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 49.015 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU027650.D

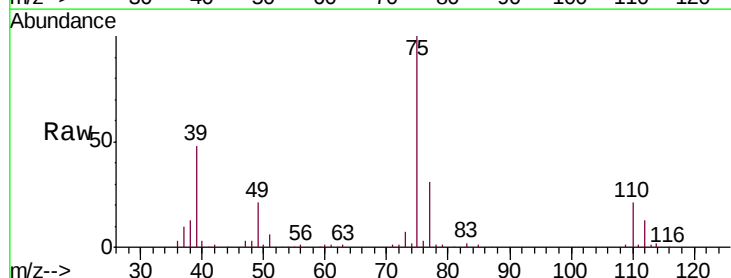
Acq: 13 Oct 2018 01:50

Tgt Ion: 75 Resp: 106507

Ion Ratio Lower Upper

75 100

77 30.5 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU027634.D (-2069) (-)

Ion 77.00 (76.70 to 77.70): VU027634.D (-2069) (-)

7.88

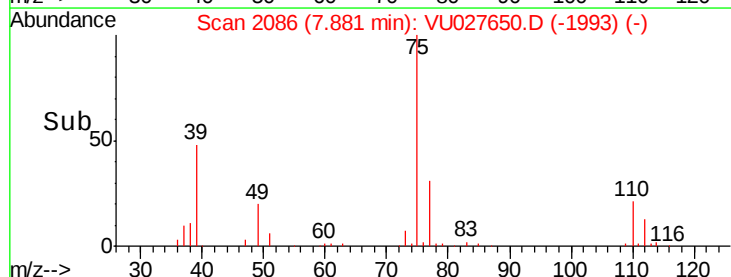
60000

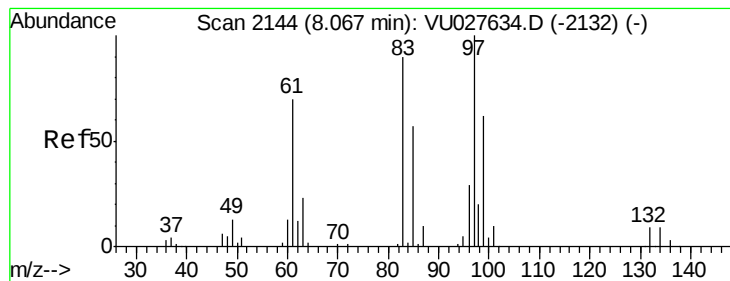
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 53.758 ug/L

RT: 8.07 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05047

Tgt Ion: 97 Resp: 68752

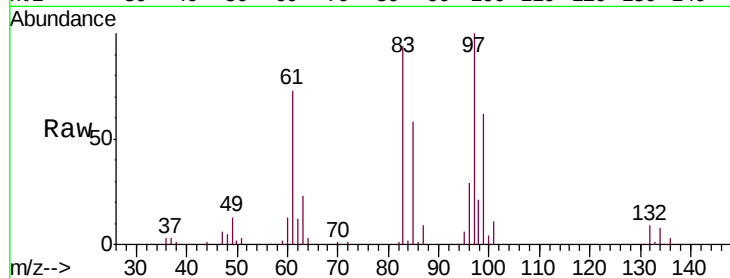
Ion Ratio Lower Upper

97 100

99 62.0 43.2 80.2

83 94.0 64.3 119.5

85 58.3 41.0 76.2

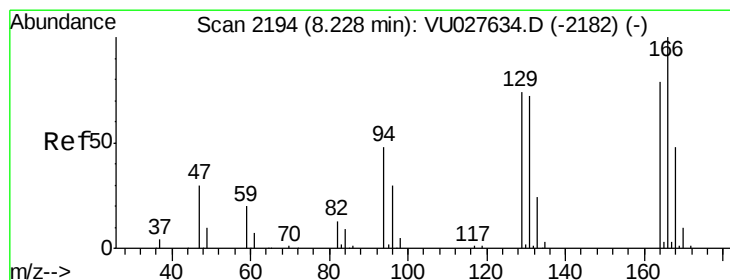
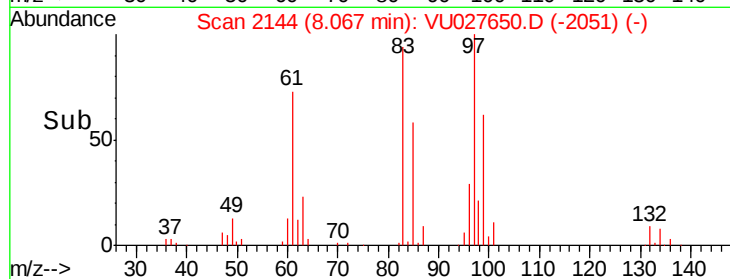
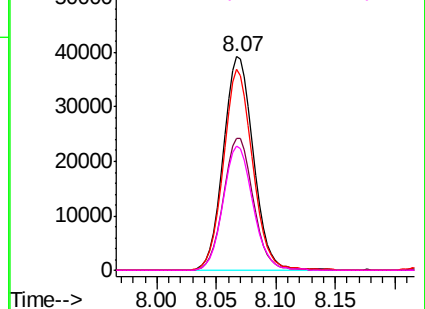


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 50.127 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Tgt Ion: 164 Resp: 49267

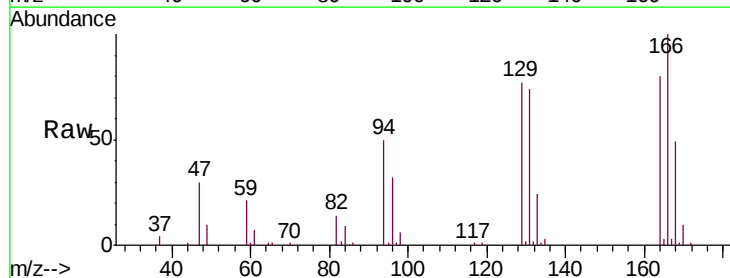
Ion Ratio Lower Upper

164 100

129 95.7 67.0 124.4

131 91.9 65.1 120.9

166 125.0 90.4 167.8

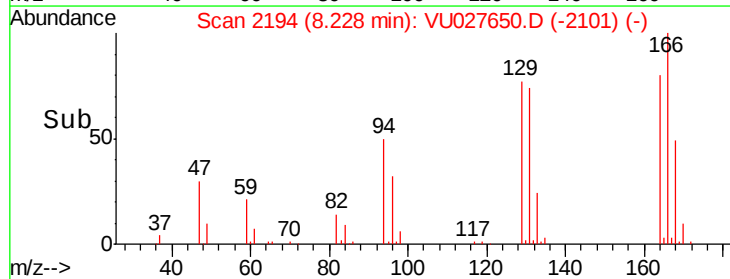
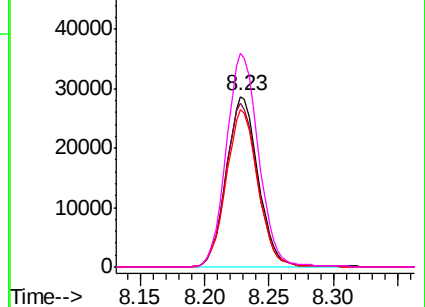


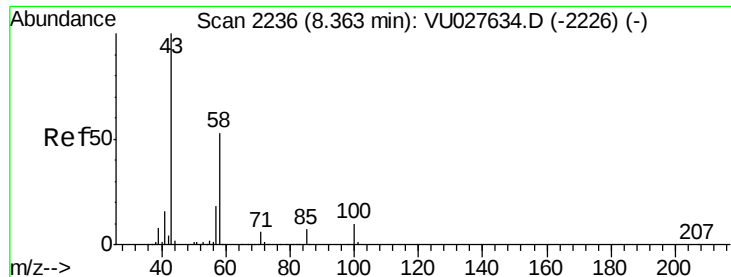
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

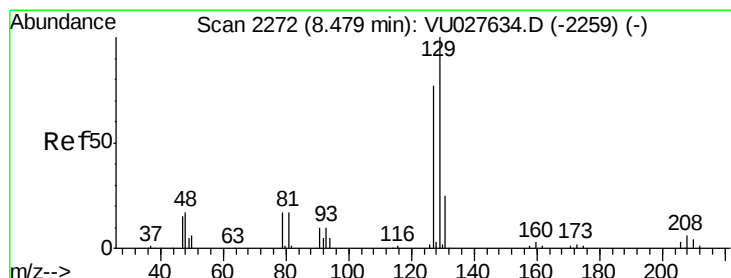
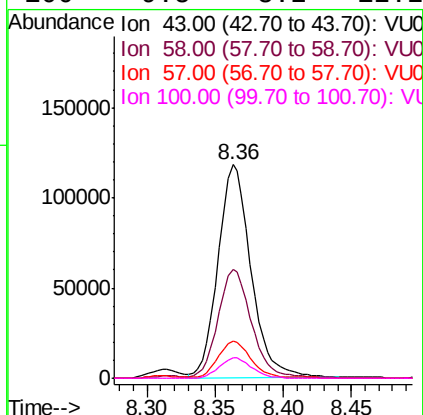
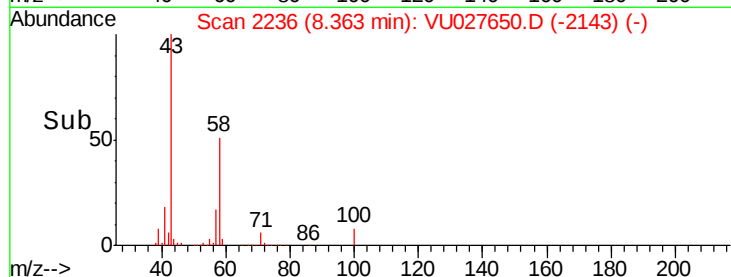
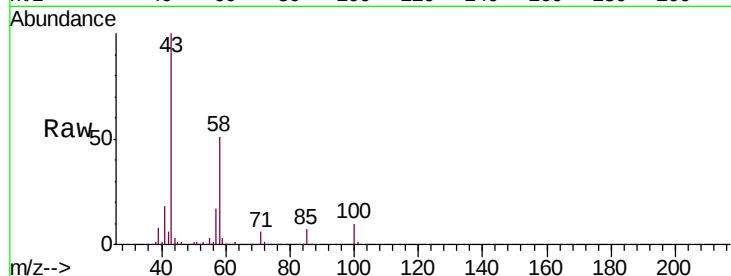




#48  
2-Hexanone  
Concen: 107.430 ug/L  
RT: 8.36 min Scan# 2236  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

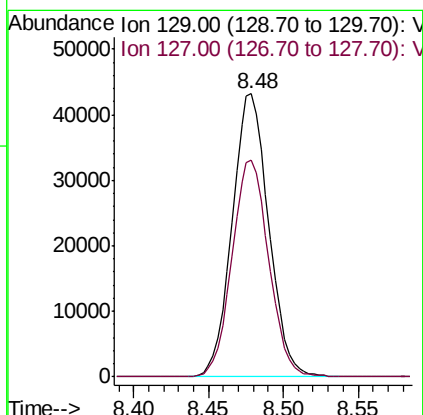
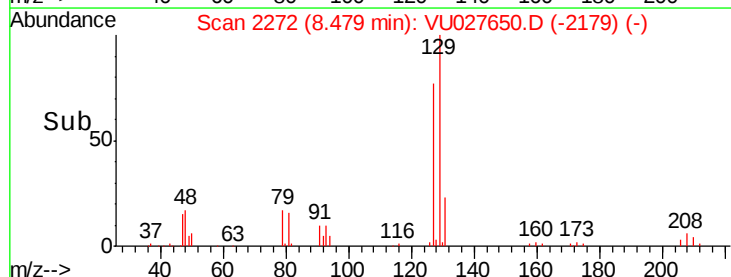
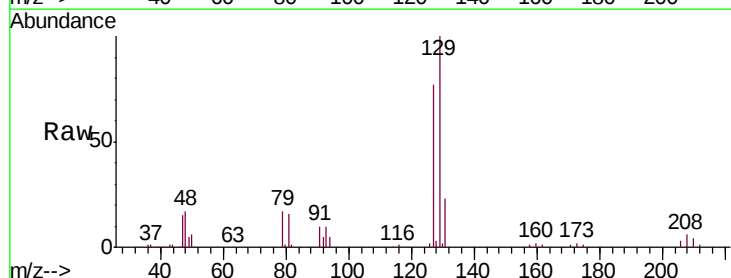
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05047

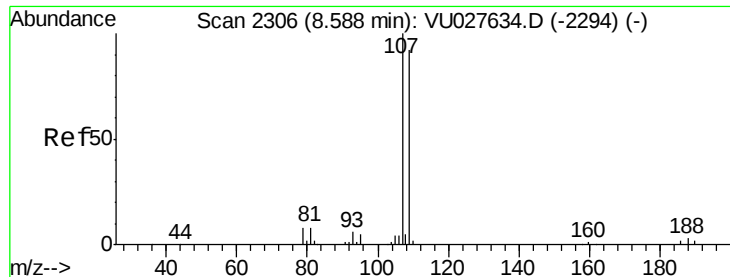
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 197905 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 51.8  | 42.7  | 64.1   |
| 57       | 18.0  | 14.5  | 21.7   |
| 100      | 9.5   | 8.2   | 12.2   |



#49  
Dibromochloromethane  
Concen: 55.115 ug/L  
RT: 8.48 min Scan# 2272  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 73498 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 76.7  | 52.7  | 97.9  |

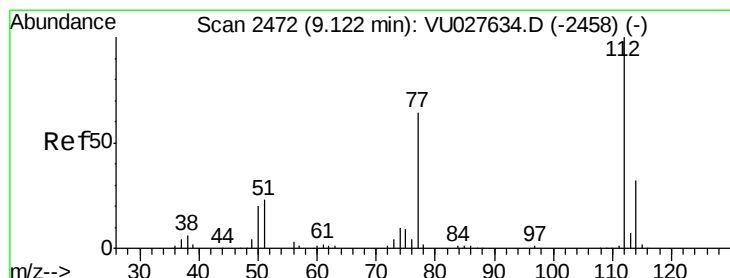
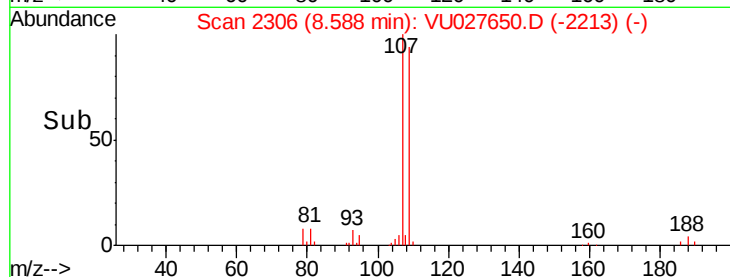
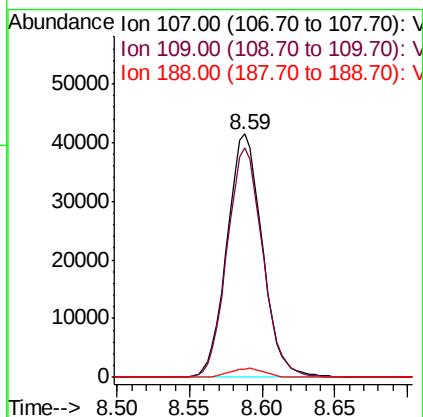
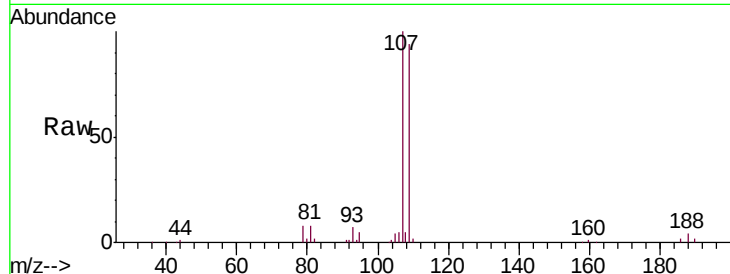




#50  
1,2-Dibromoethane  
Concen: 51.855 ug/L  
RT: 8.59 min Scan# 2306  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

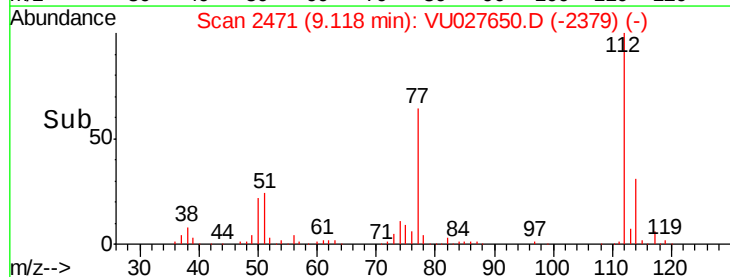
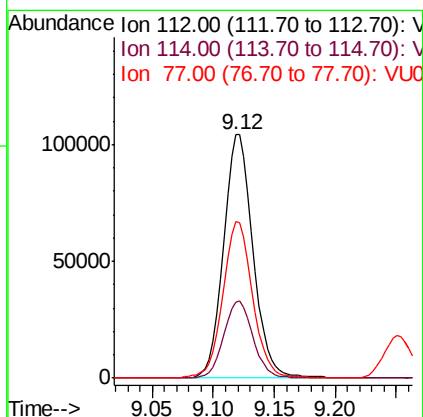
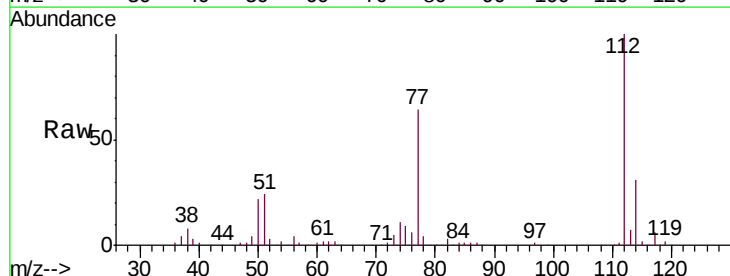
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05047

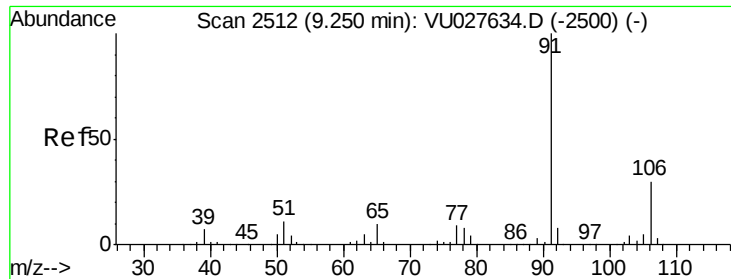
Tgt Ion:107 Resp: 70358  
Ion Ratio Lower Upper  
107 100  
109 94.4 65.5 121.6  
188 3.5 3.0 4.6



#51  
Chlorobenzene  
Concen: 50.806 ug/L  
RT: 9.12 min Scan# 2471  
Delta R.T. -0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

Tgt Ion:112 Resp: 177221  
Ion Ratio Lower Upper  
112 100  
114 31.1 22.3 41.5  
77 64.3 51.7 77.5





#52

Ethylbenzene

Concen: 51.184 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Instrument :

MSVOA\_U

ClientSampleId :

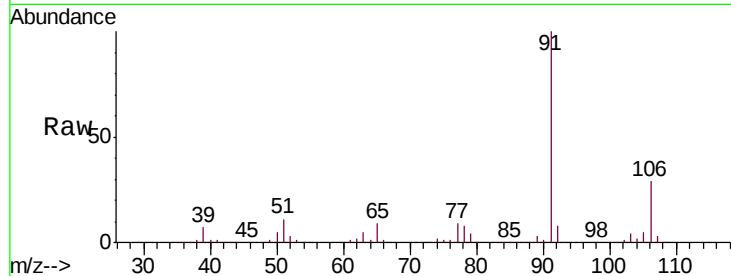
VSTD05047

Tgt Ion: 91 Resp: 313571

Ion Ratio Lower Upper

91 100

106 28.7 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VU027634.D (-2500) (-)

Ion 106.00 (105.70 to 106.70): VU027634.D (-2500) (-)

200000

150000

100000

50000

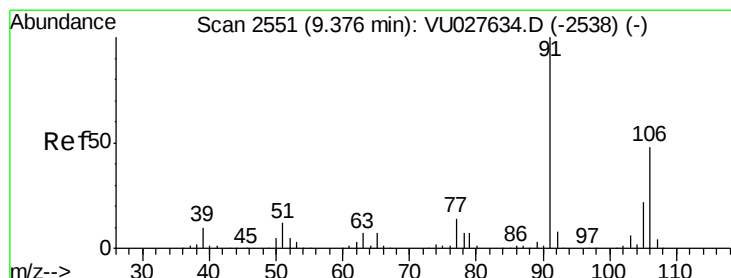
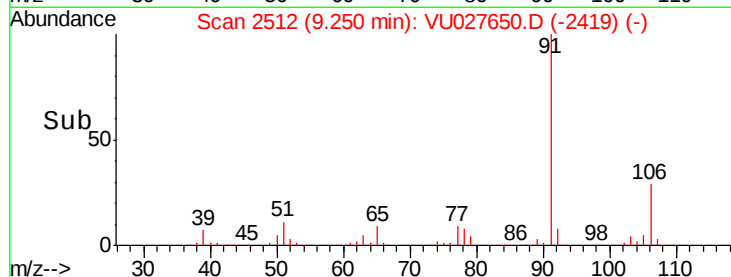
0

9.25

9.30

9.35

Time-->



#53

m,p-Xylene

Concen: 51.210 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU027650.D

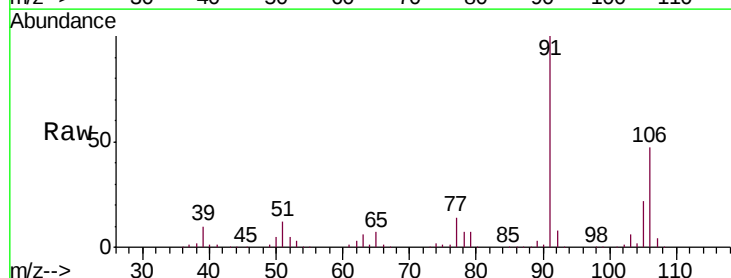
Acq: 13 Oct 2018 01:50

Tgt Ion: 106 Resp: 114828

Ion Ratio Lower Upper

106 100

91 212.1 145.0 269.4



Abundance Ion 106.00 (105.70 to 106.70): VU027634.D (-2538) (-)

Ion 91.00 (90.70 to 91.70): VU027634.D (-2538) (-)

150000

100000

50000

0

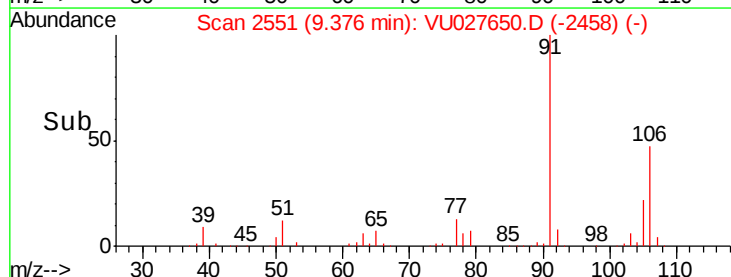
9.38

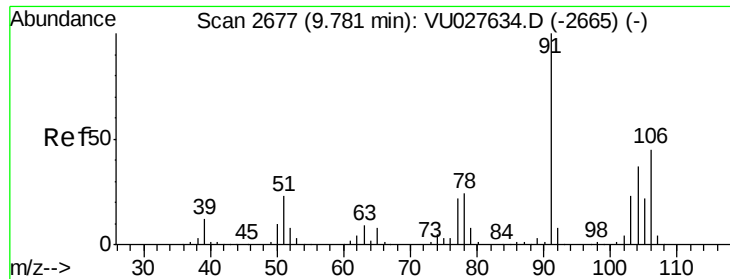
9.40

9.45

9.50

Time-->

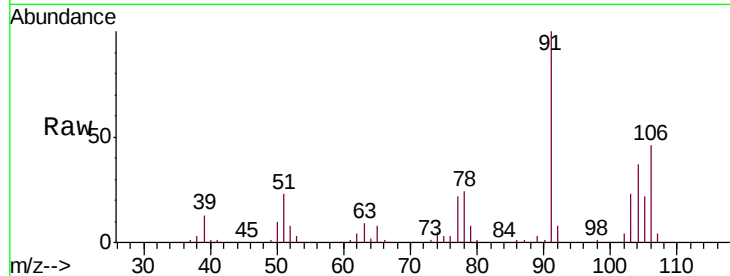




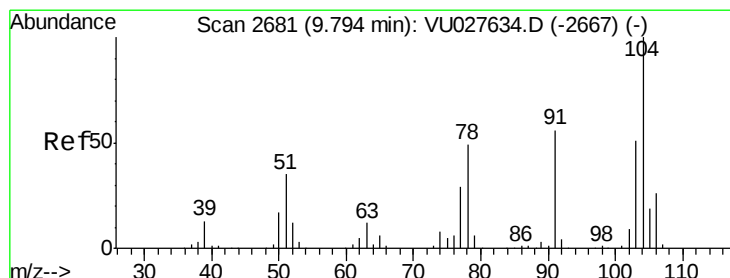
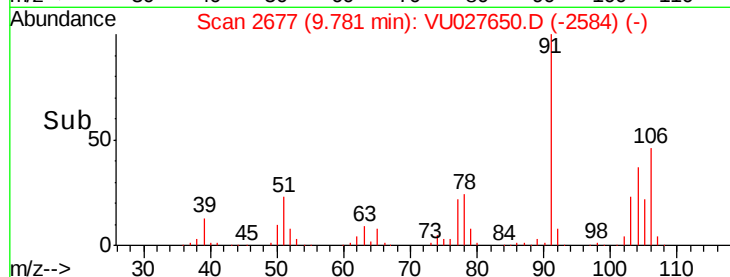
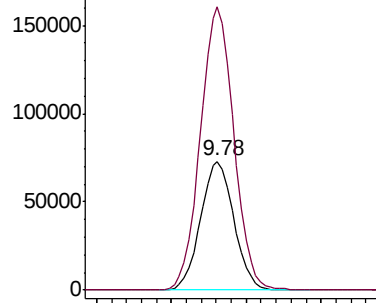
#54  
o-xylene  
Concen: 52.360 ug/L  
RT: 9.78 min Scan# 2677  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05047

Tgt Ion:106 Resp: 113107  
Ion Ratio Lower Upper  
106 100  
91 219.5 154.8 287.4

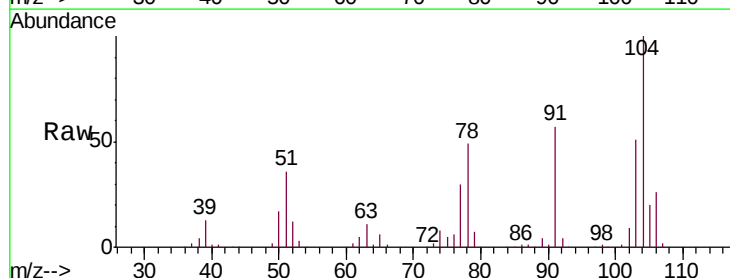


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0

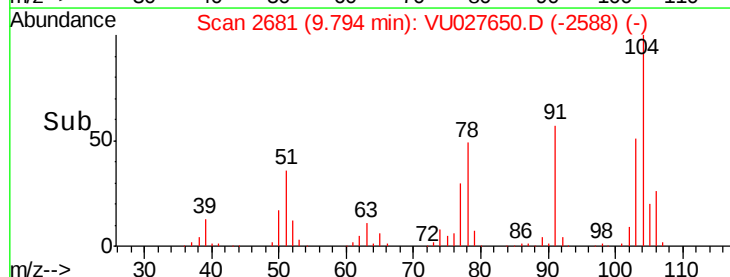
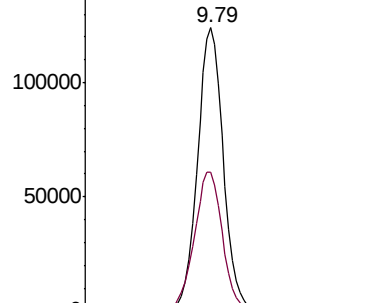


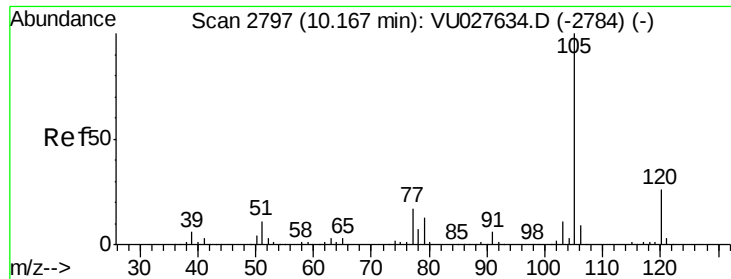
#55  
Styrene  
Concen: 53.280 ug/L  
RT: 9.79 min Scan# 2681  
Delta R.T. 0.00 min  
Lab File: VU027650.D  
Acq: 13 Oct 2018 01:50

Tgt Ion:104 Resp: 197092  
Ion Ratio Lower Upper  
104 100  
78 48.9 33.6 62.4



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.199 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05047

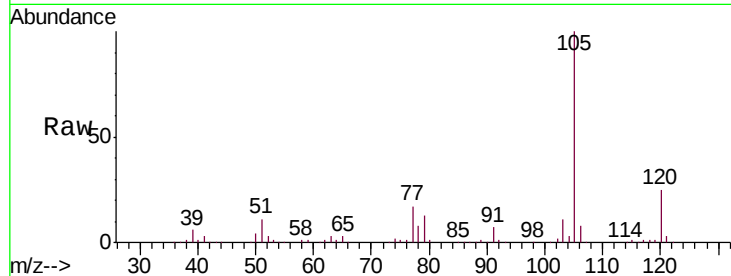
Tgt Ion: 105 Resp: 295504

Ion Ratio Lower Upper

105 100

120 25.0 20.6 30.8

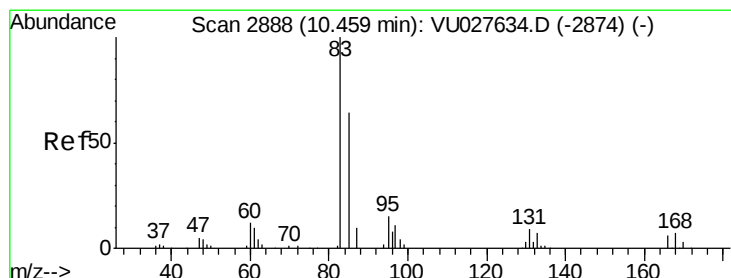
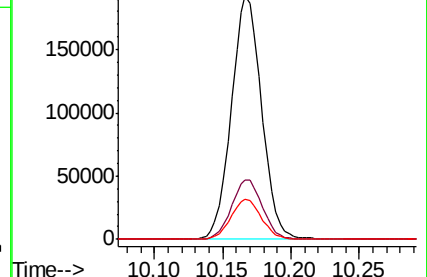
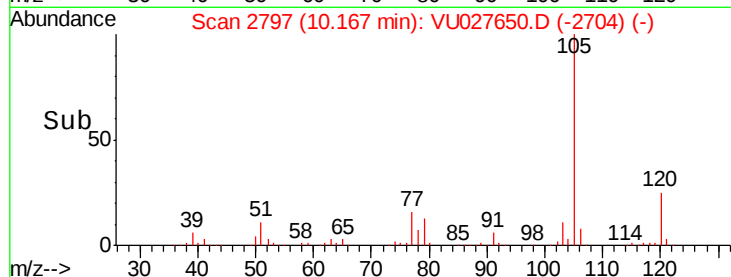
77 16.7 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 53.730 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

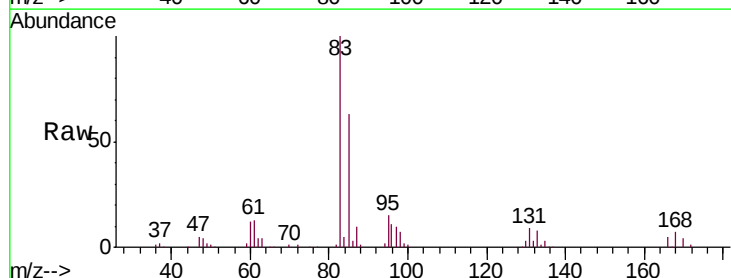
Tgt Ion: 83 Resp: 120399

Ion Ratio Lower Upper

83 100

85 62.7 45.2 84.0

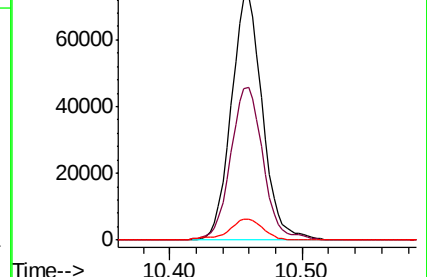
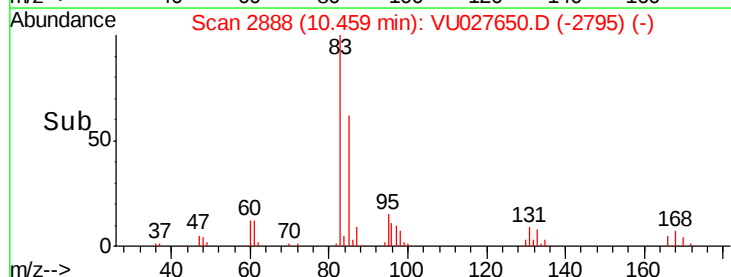
131 8.7 6.7 10.1

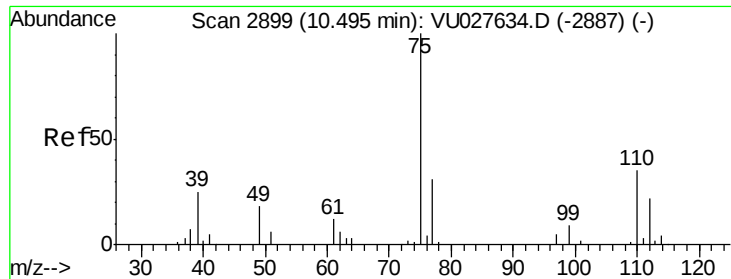


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

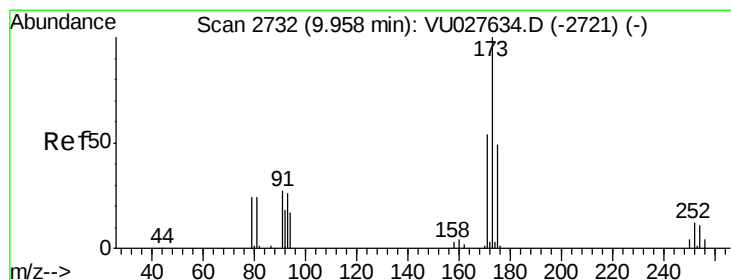
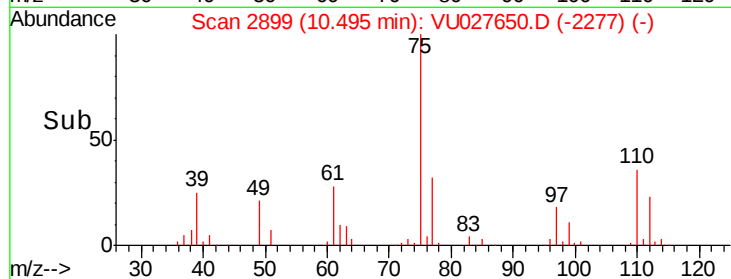
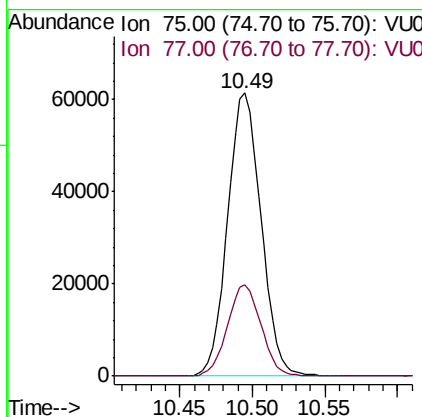
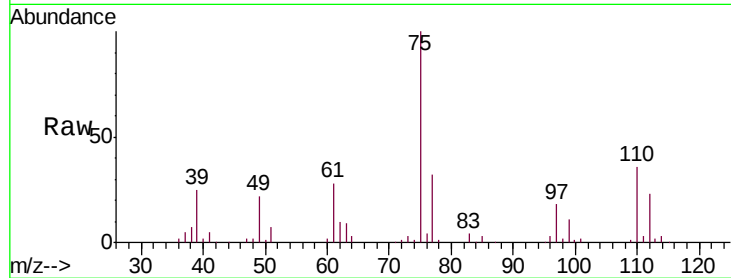




#59  
 1,2,3-Trichloropropane  
 Concen: 54.623 ug/L  
 RT: 10.49 min Scan# 2899  
 Delta R.T. 0.00 min  
 Lab File: VU027650.D  
 Acq: 13 Oct 2018 01:50

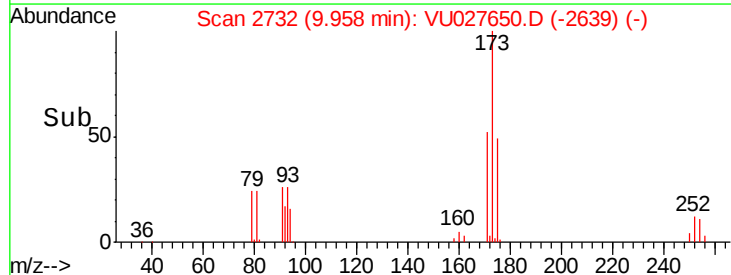
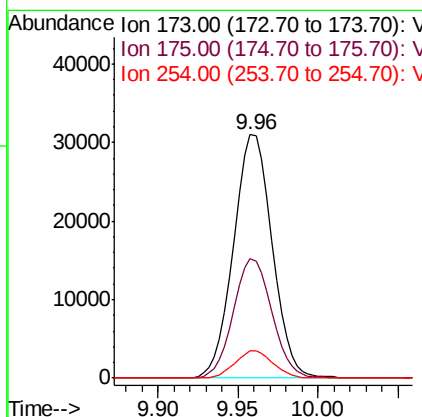
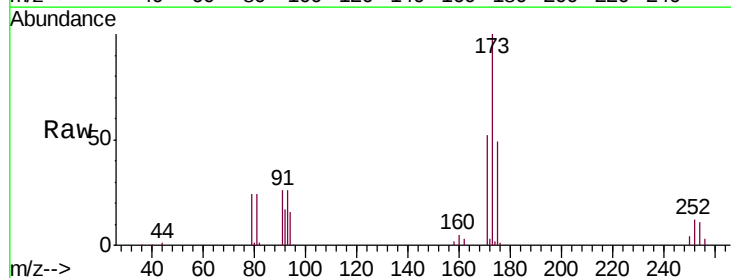
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05047

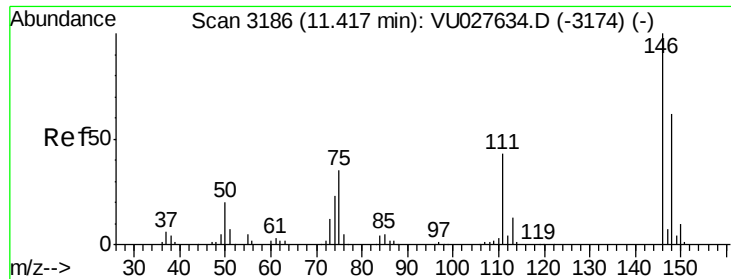
Tgt Ion: 75 Resp: 98524  
 Ion Ratio Lower Upper  
 75 100  
 77 32.5 25.7 38.5



#61  
 Bromoform  
 Concen: 57.080 ug/L  
 RT: 9.96 min Scan# 2732  
 Delta R.T. 0.00 min  
 Lab File: VU027650.D  
 Acq: 13 Oct 2018 01:50

Tgt Ion: 173 Resp: 51032  
 Ion Ratio Lower Upper  
 173 100  
 175 48.9 39.0 58.4  
 254 11.1 8.3 12.5





#62

1,3-Dichlorobenzene

Concen: 49.939 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05047

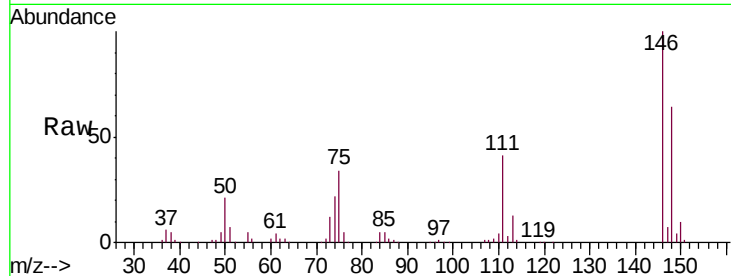
Tgt Ion:146 Resp: 122294

Ion Ratio Lower Upper

146 100

111 41.3 29.0 53.8

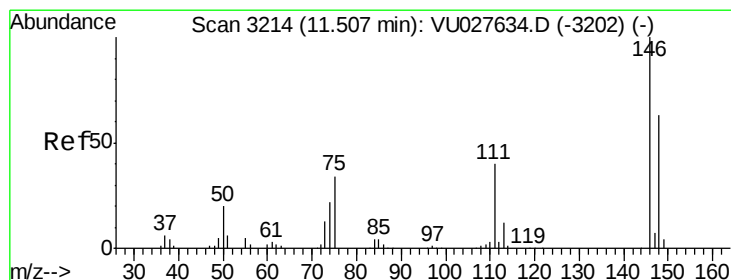
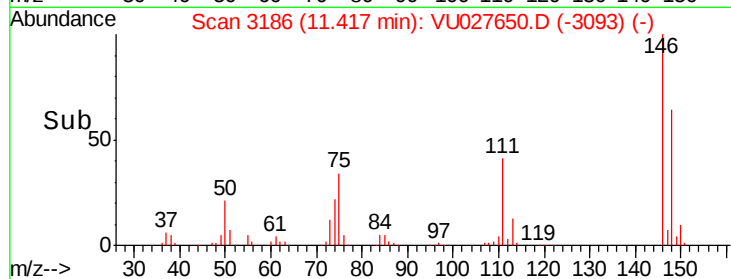
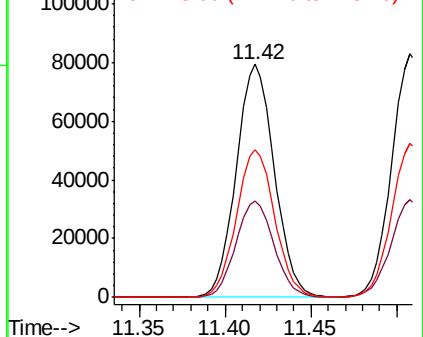
148 63.6 45.4 84.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.186 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

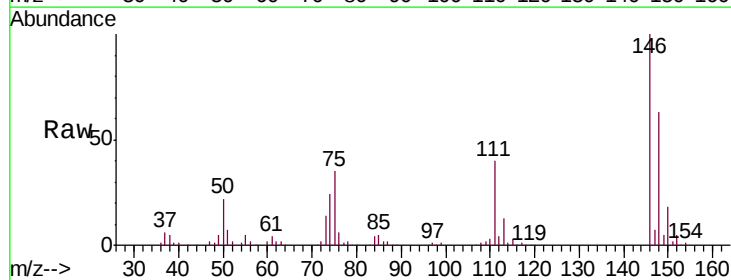
Tgt Ion:146 Resp: 128197

Ion Ratio Lower Upper

146 100

111 40.3 28.1 52.1

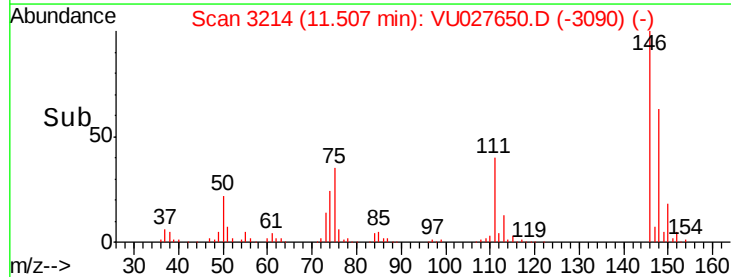
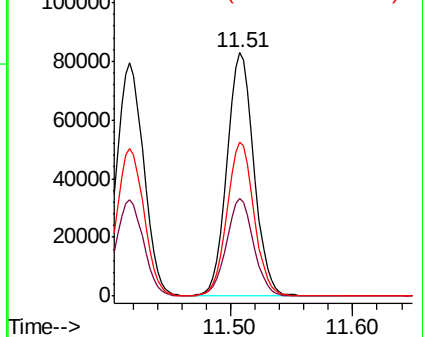
148 63.1 44.4 82.5

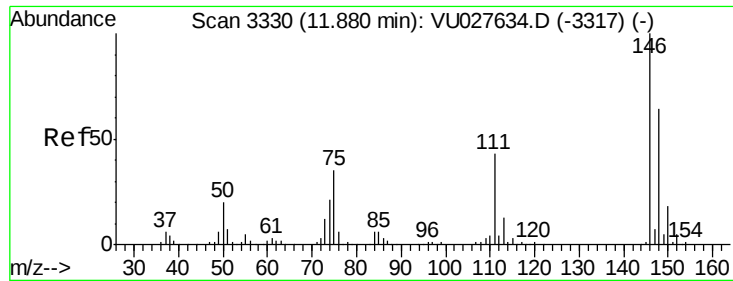


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

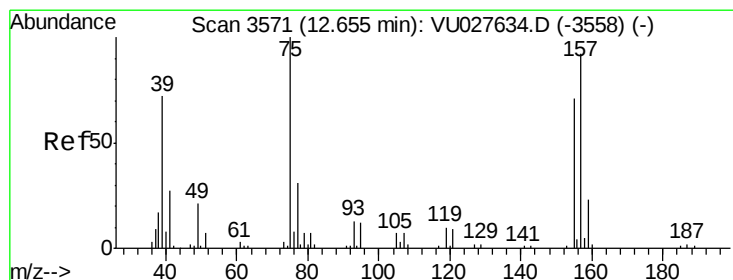
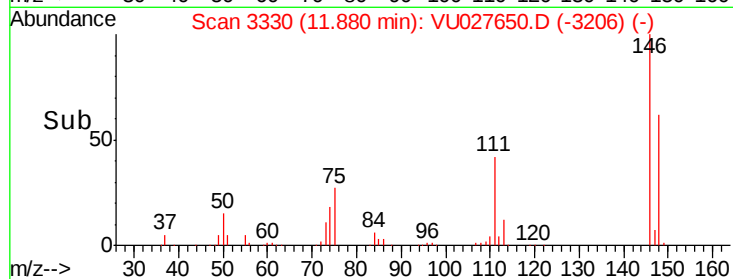
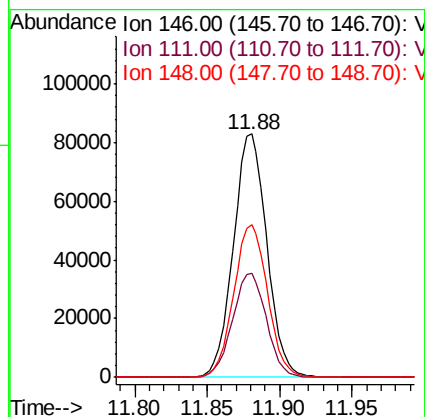
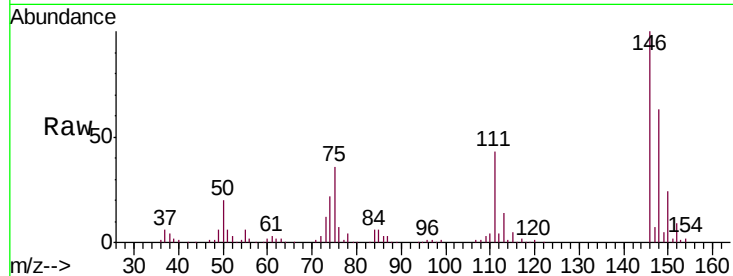




#65  
 1,2-Dichlorobenzene  
 Concen: 53.231 ug/L  
 RT: 11.88 min Scan# 3330  
 Delta R.T. 0.00 min  
 Lab File: VU027650.D  
 Acq: 13 Oct 2018 01:50

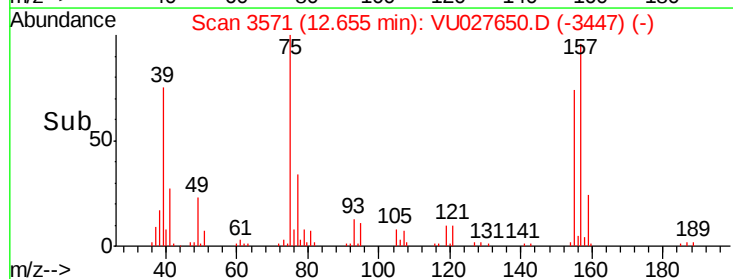
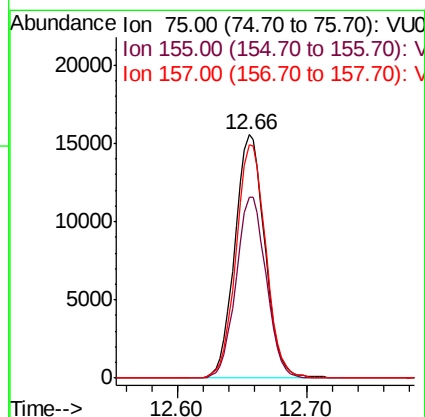
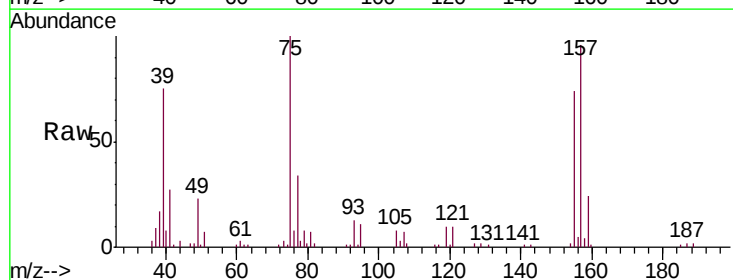
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05047

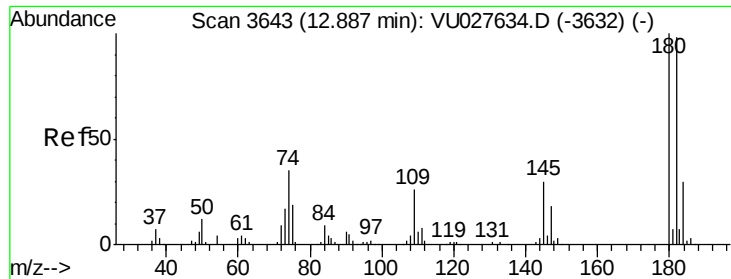
Tgt Ion: 146 Resp: 132700  
 Ion Ratio Lower Upper  
 146 100  
 111 42.5 34.9 52.3  
 148 62.7 51.6 77.4



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 54.381 ug/L  
 RT: 12.66 min Scan# 3571  
 Delta R.T. 0.00 min  
 Lab File: VU027650.D  
 Acq: 13 Oct 2018 01:50

Tgt Ion: 75 Resp: 25131  
 Ion Ratio Lower Upper  
 75 100  
 155 74.2 61.0 91.6  
 157 96.0 77.8 116.8

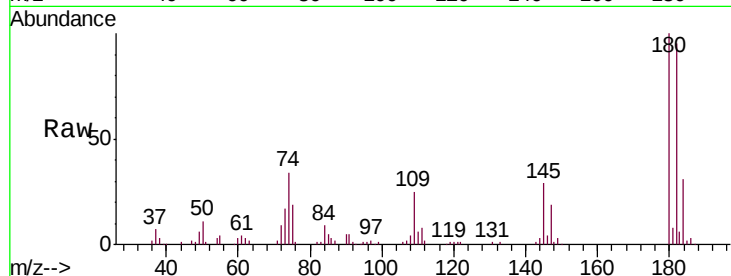




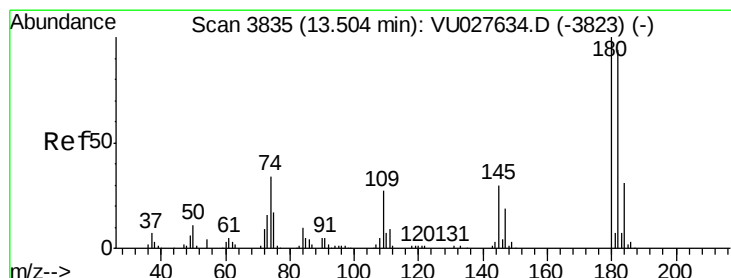
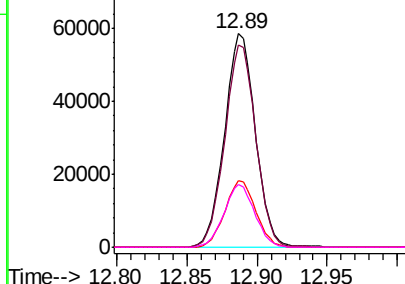
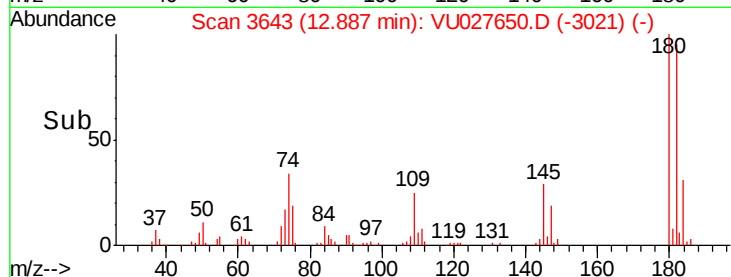
#67  
 1,3,5-Trichlorobenzene  
 Concen: 47.257 ug/L  
 RT: 12.89 min Scan# 3643  
 Delta R.T. 0.00 min  
 Lab File: VU027650.D  
 Acq: 13 Oct 2018 01:50

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05047

Tgt Ion:180 Resp: 89411  
 Ion Ratio Lower Upper  
 180 100  
 182 95.2 76.7 115.1  
 184 31.2 24.5 36.7  
 145 29.1 23.8 35.8

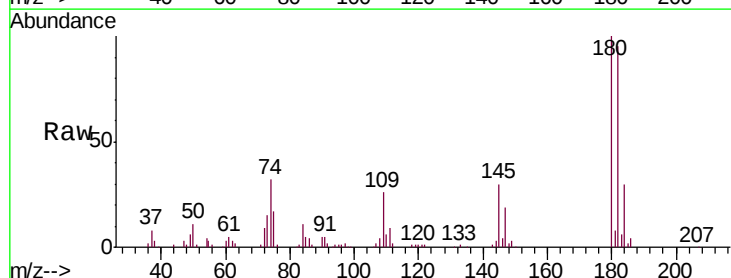


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

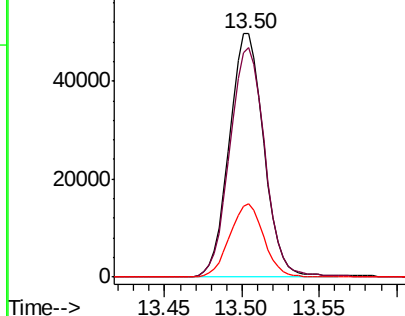
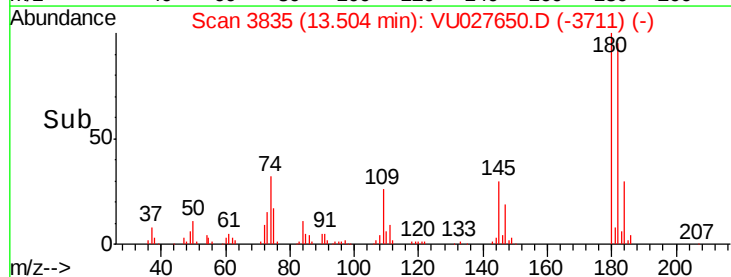


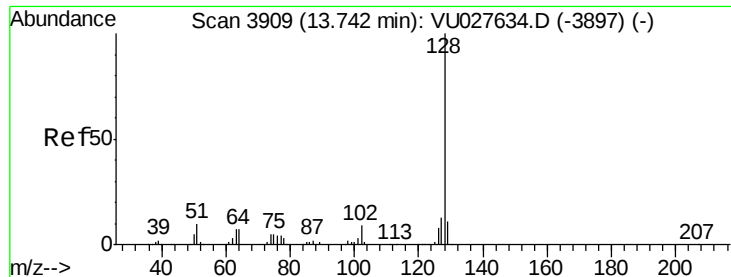
#68  
 1,2,4-trichlorobenzene  
 Concen: 44.416 ug/L  
 RT: 13.50 min Scan# 3835  
 Delta R.T. 0.00 min  
 Lab File: VU027650.D  
 Acq: 13 Oct 2018 01:50

Tgt Ion:180 Resp: 77282  
 Ion Ratio Lower Upper  
 180 100  
 182 95.7 76.3 114.5  
 145 29.5 24.2 36.2



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





#69

Naphthalene

Concen: 51.225 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05047

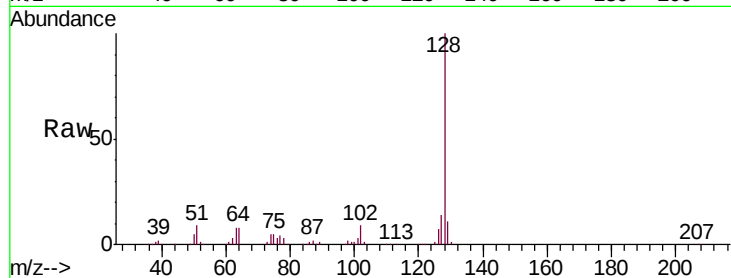
Tgt Ion:128 Resp: 274828

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

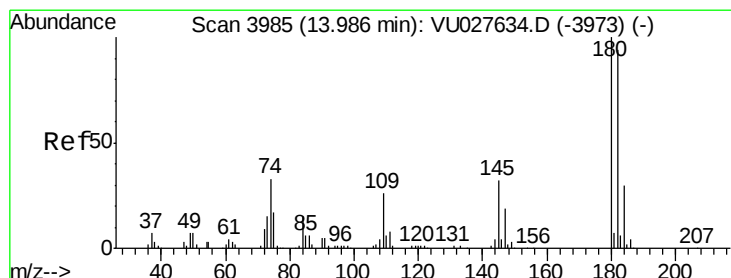
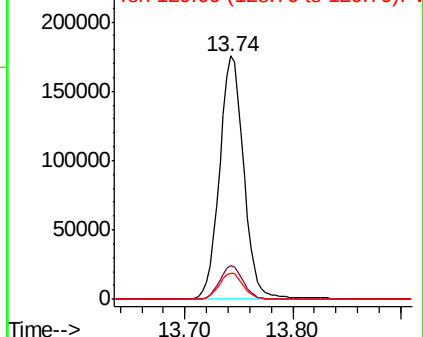
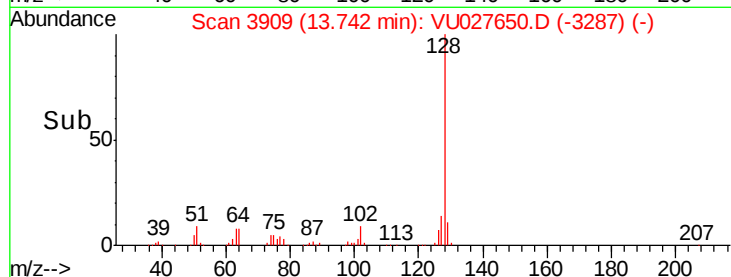
129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 49.013 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU027650.D

Acq: 13 Oct 2018 01:50

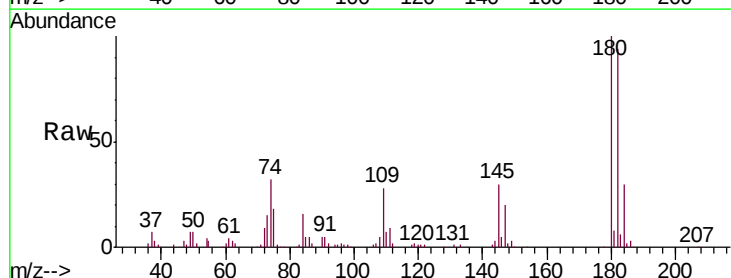
Tgt Ion:180 Resp: 86722

Ion Ratio Lower Upper

180 100

182 95.0 77.4 116.0

145 30.8 25.5 38.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

