

Data File : VU034602.D  
Acq On : 17 Sep 2019 06:38  
Operator : JC/SP  
Sample : VSTDCCC050EC  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 50 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05055

Quant Time: Sep 17 07:06:19 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Sep 17 05:01:24 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 251087   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 239337   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 106227   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 58201    | 48.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 96.08%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 50234    | 53.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 107.84% |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 129884   | 52.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 104.80% |
| 21) 2-Butanone-d5              | 4.15    | 46    | 165983   | 121.51   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 121.51% |
| 24) Chloroform-d               | 4.62    | 84    | 152569   | 55.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 110.94% |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 95812    | 57.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 114.20% |
| 32) Benzene-d6                 | 5.32    | 84    | 275385   | 52.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.66% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 105213   | 53.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 107.42% |
| 41) Toluene-d8                 | 7.54    | 98    | 267189   | 52.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.58% |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 47527    | 50.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.72% |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 115823   | 108.99   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 108.99% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 166241   | 54.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 108.62% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 102516   | 54.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 108.20% |

#### Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 84828  | 54.835 ug/L  | 97     |
| 3) Chloromethane               | 1.32 | 50  | 80437  | 50.948 ug/L  | 100    |
| 5) Vinyl chloride              | 1.40 | 62  | 82913  | 53.492 ug/L  | 98     |
| 6) Bromomethane                | 1.62 | 94  | 29201  | 36.039 ug/L  | 96     |
| 8) Chloroethane                | 1.69 | 64  | 50370  | 56.715 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 117451 | 53.550 ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 68318  | 52.274 ug/L  | 96     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 61654  | 51.663 ug/L  | 93     |
| 13) Acetone                    | 2.31 | 43  | 105013 | 85.547 ug/L  | 99     |
| 14) Carbon disulfide           | 2.46 | 76  | 148543 | 50.703 ug/L  | 99     |
| 15) Methyl Acetate             | 2.60 | 43  | 116266 | 57.869 ug/L  | 96     |
| 16) Methylene chloride         | 2.68 | 84  | 82912  | 52.570 ug/L  | 99     |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 67315  | 52.705 ug/L  | 96     |
| 18) Methyl tert-butyl Ether    | 2.98 | 73  | 287167 | 54.307 ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 159410 | 55.438 ug/L  | 99     |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 86846  | 52.505 ug/L  | 99     |
| 22) 2-Butanone                 | 4.23 | 43  | 174347 | 111.645 ug/L | 99     |

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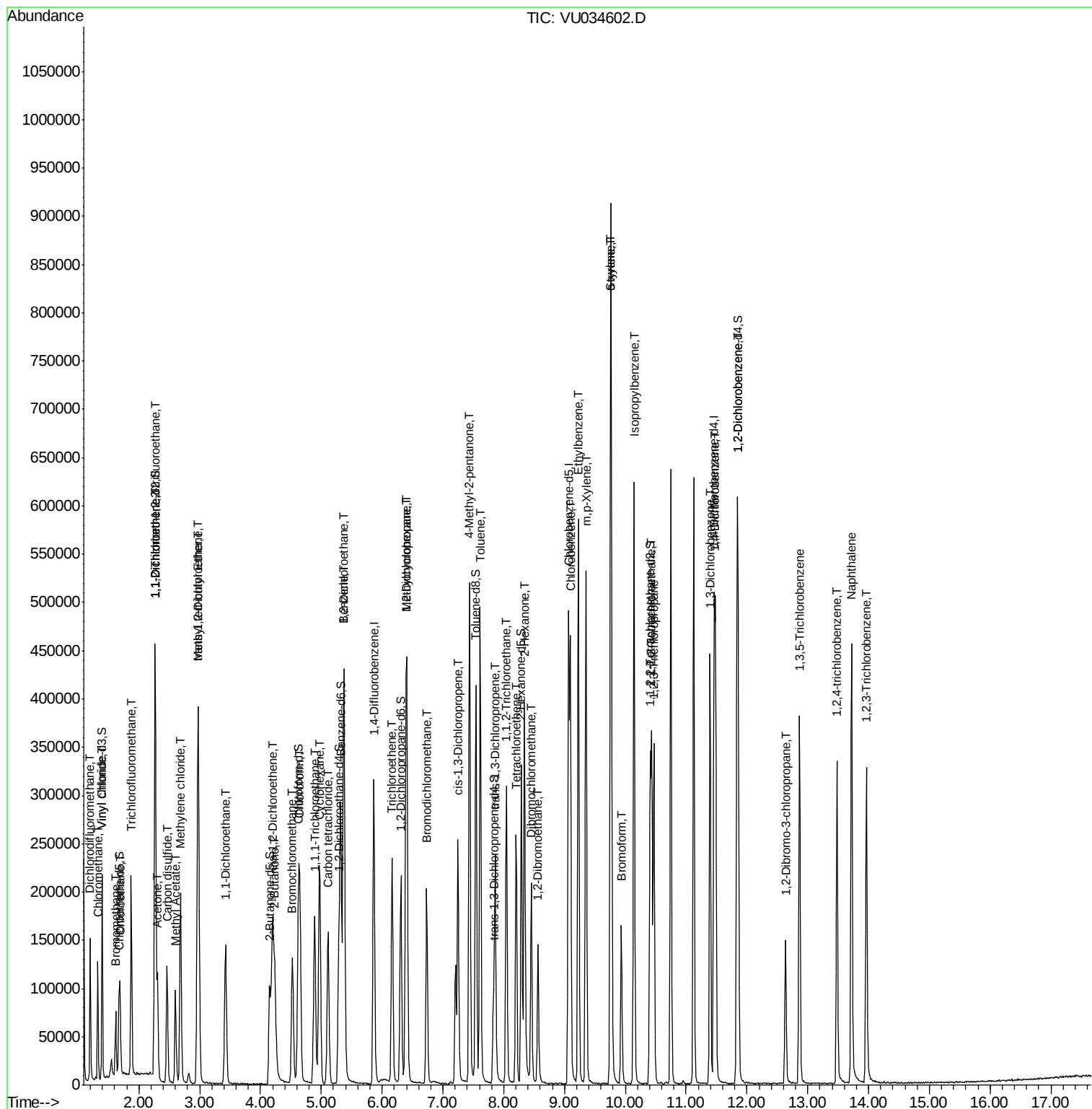
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 4.52  | 128  | 40100    | 51.350  | ug/L  | 96       |
| 25) Chloroform                 | 4.65  | 83   | 162420   | 54.013  | ug/L  | 97       |
| 27) 1,2-Dichloroethane         | 5.38  | 62   | 122998   | 57.768  | ug/L  | 98       |
| 29) Cyclohexane                | 4.97  | 56   | 124865   | 53.516  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane      | 4.89  | 97   | 131114   | 54.822  | ug/L  | 98       |
| 31) Carbon tetrachloride       | 5.11  | 117  | 107992   | 53.486  | ug/L  | 99       |
| 33) Benzene                    | 5.37  | 78   | 330520   | 54.442  | ug/L  | 100      |
| 34) Trichloroethene            | 6.16  | 95   | 80418    | 53.176  | ug/L  | 93       |
| 35) Methylcyclohexane          | 6.39  | 83   | 119368   | 52.065  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 101822   | 55.259  | ug/L  | 98       |
| 38) Bromodichloromethane       | 6.73  | 83   | 129377   | 53.710  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 146820   | 53.034  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.44  | 43   | 364197   | 113.626 | ug/L  | 98       |
| 42) Toluene                    | 7.61  | 91   | 354010   | 54.082  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 128492   | 50.617  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.04  | 97   | 90168    | 53.622  | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.21  | 164  | 50137    | 49.945  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.34  | 43   | 273106   | 113.418 | ug/L  | 95       |
| 49) Dibromochloromethane       | 8.45  | 129  | 97000    | 50.934  | ug/L  | 95       |
| 50) 1,2-Dibromoethane          | 8.56  | 107  | 92903    | 52.858  | ug/L  | 100      |
| 51) Chlorobenzene              | 9.10  | 112  | 224922   | 52.595  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.23  | 91   | 401541   | 53.019  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.35  | 106  | 144061   | 52.908  | ug/L  | 96       |
| 54) o-xylene                   | 9.76  | 106  | 148346   | 53.701  | ug/L  | 93       |
| 55) Styrene                    | 9.77  | 104  | 251661   | 52.928  | ug/L  | 97       |
| 56) Isopropylbenzene           | 10.14 | 105  | 392642   | 52.846  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.43 | 83   | 179013   | 53.534  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.47 | 75   | 135870   | 53.983  | ug/L  | 100      |
| 61) Bromoform                  | 9.94  | 173  | 64677    | 49.444  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.39 | 146  | 163058   | 53.083  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.48 | 146  | 161279   | 51.996  | ug/L  | 96       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 169925   | 54.841  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 39741    | 56.612  | ug/L  | 90       |
| 67) 1,3,5-Trichlorobenzene     | 12.86 | 180  | 101988   | 50.941  | ug/L  | 96       |
| 68) 1,2,4-trichlorobenzene     | 13.48 | 180  | 86665    | 50.672  | ug/L  | 98       |
| 69) Naphthalene                | 13.72 | 128  | 353110   | 55.882  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.96 | 180  | 89200    | 50.944  | ug/L  | 99       |

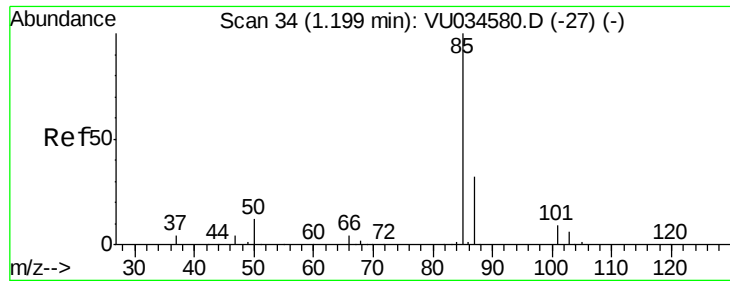
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 54.835 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

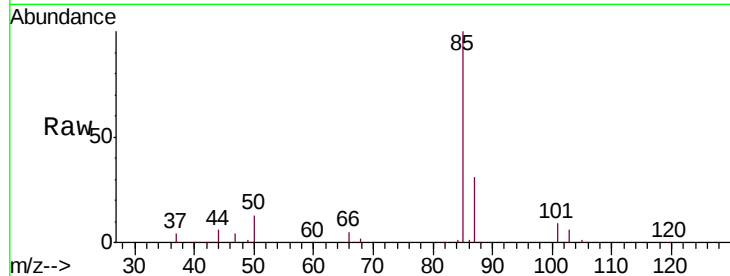
VSTD05055

Tgt Ion: 85 Resp: 84828

Ion Ratio Lower Upper

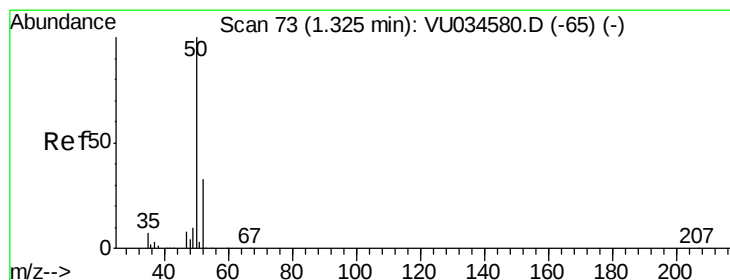
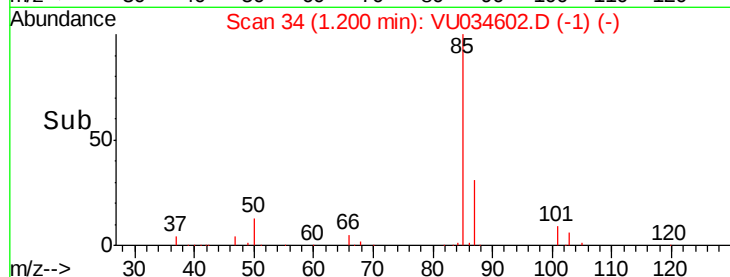
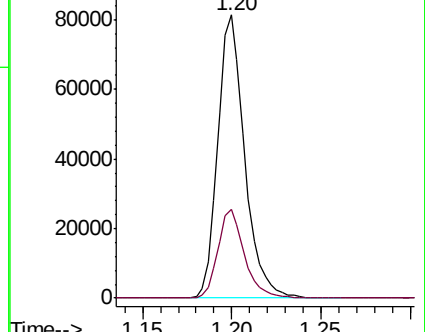
85 100

87 30.9 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU034580.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU034580.D (-27) (-)



#3

Chloromethane

Concen: 50.948 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034602.D

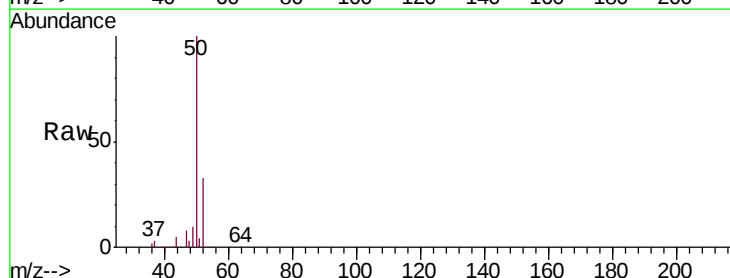
Acq: 17 Sep 2019 06:38

Tgt Ion: 50 Resp: 80437

Ion Ratio Lower Upper

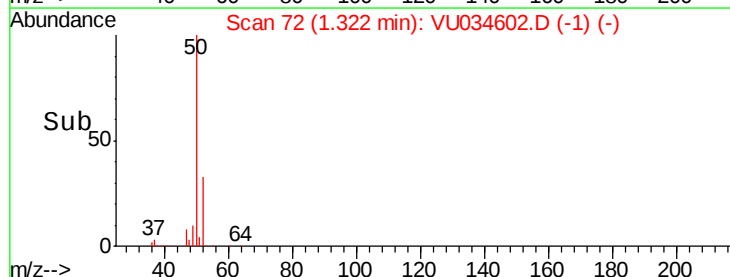
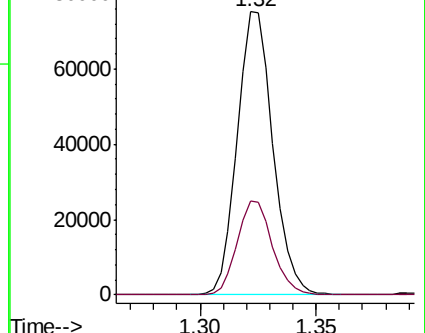
50 100

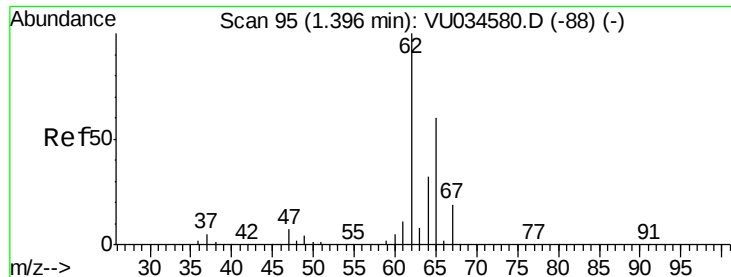
52 33.3 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU034580.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU034580.D (-65) (-)





#5

Vinyl chloride

Concen: 53.492 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

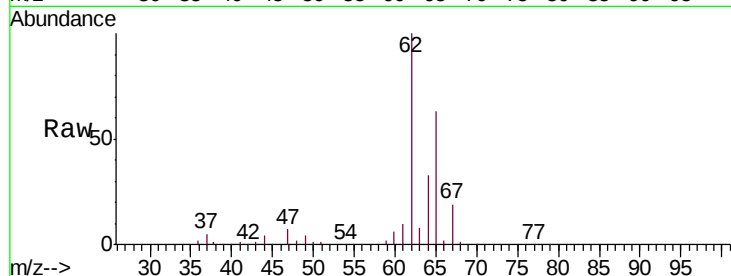
VSTD05055

Tgt Ion: 62 Resp: 82913

Ion Ratio Lower Upper

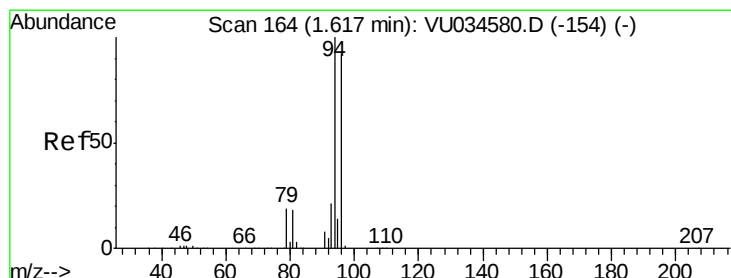
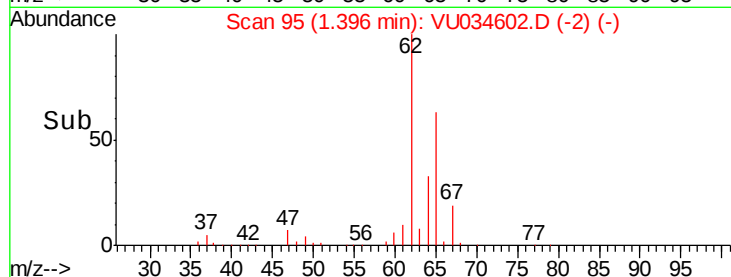
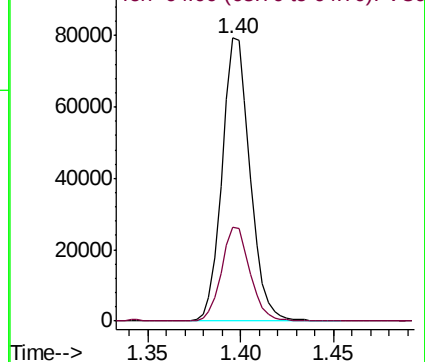
62 100

64 33.3 24.1 44.7



Abundance Ion 62.00 (61.70 to 62.70): VU034580.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU034580.D (-88) (-)



#6

Bromomethane

Concen: 36.039 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU034602.D

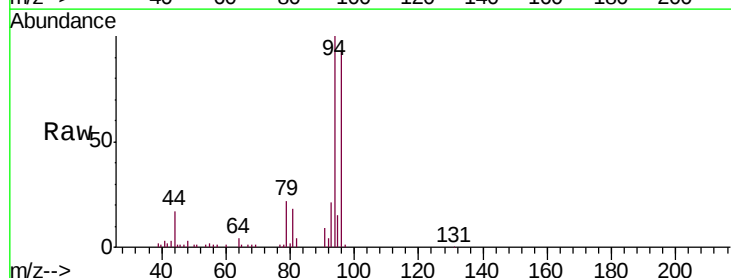
Acq: 17 Sep 2019 06:38

Tgt Ion: 94 Resp: 29201

Ion Ratio Lower Upper

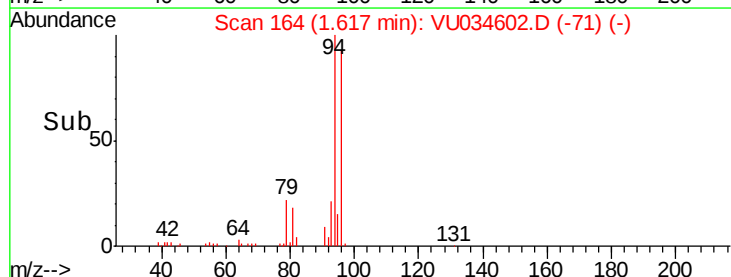
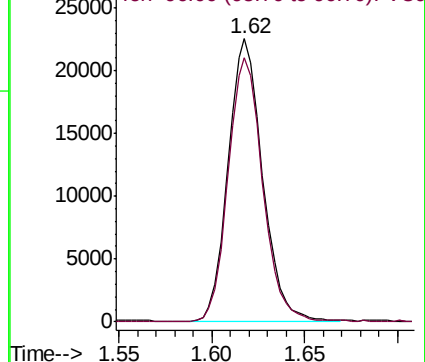
94 100

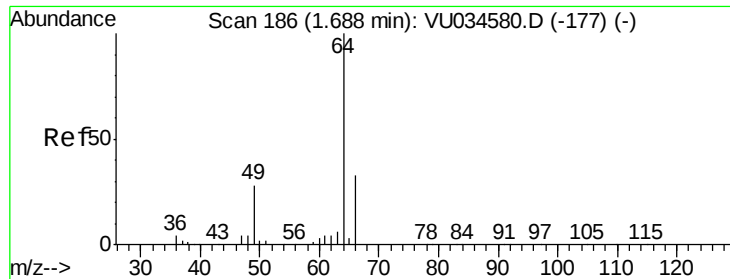
96 93.5 62.9 116.9



Abundance Ion 94.00 (93.70 to 94.70): VU034580.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU034580.D (-154) (-)





#8

Chloroethane

Concen: 56.715 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

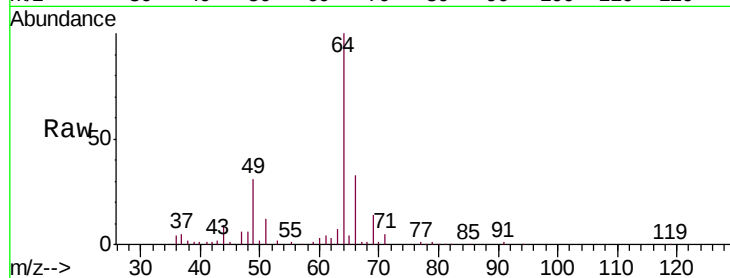
VSTD05055

Tgt Ion: 64 Resp: 50370

Ion Ratio Lower Upper

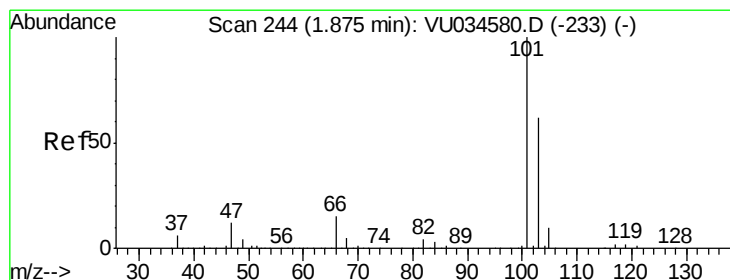
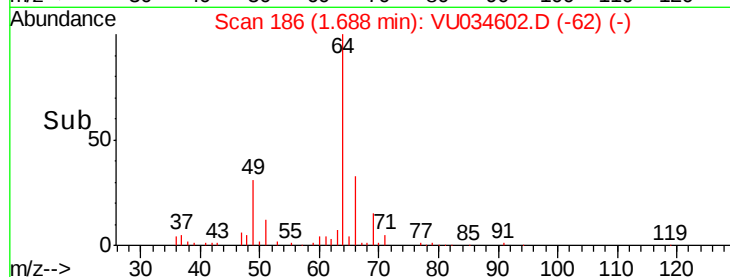
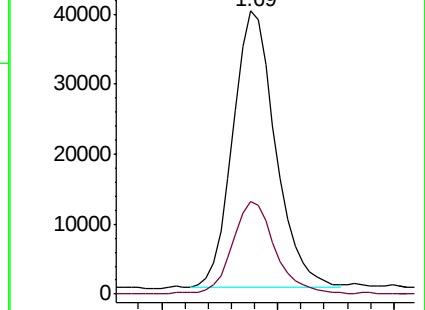
64 100

66 32.7 22.7 42.1



Abundance Ion 64.00 (63.70 to 64.70): VU034602.D (-120) (-)

Ion 66.00 (65.70 to 66.70): VU034602.D (-120) (-)



#9

Trichlorofluoromethane

Concen: 53.550 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU034602.D

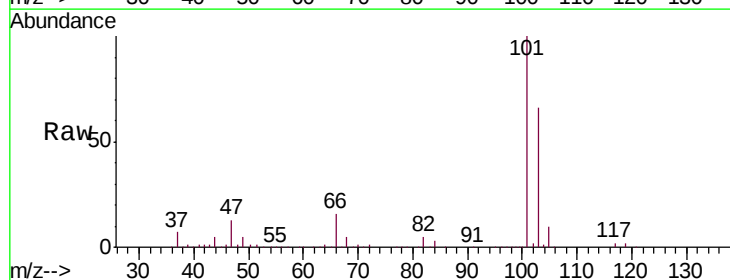
Acq: 17 Sep 2019 06:38

Tgt Ion: 101 Resp: 117451

Ion Ratio Lower Upper

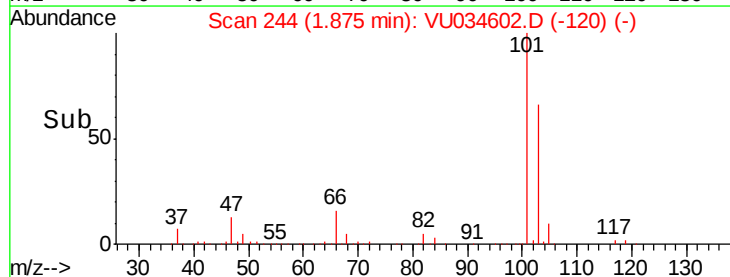
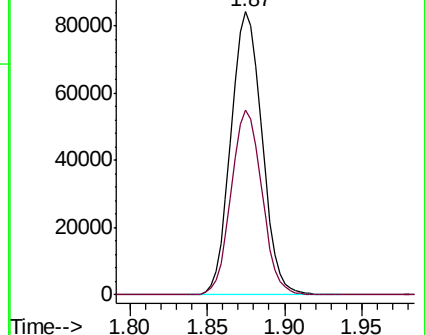
101 100

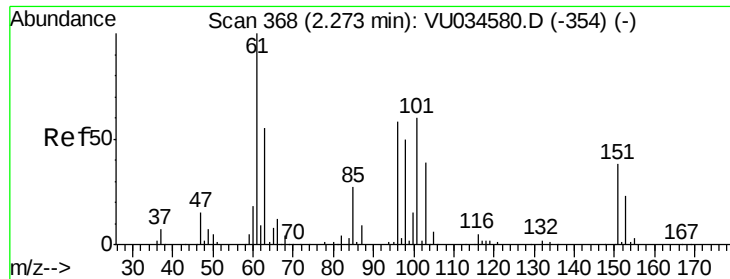
103 64.4 50.7 76.1



Abundance Ion 101.00 (100.70 to 101.70): VU034602.D (-120) (-)

Ion 103.00 (102.70 to 103.70): VU034602.D (-120) (-)





#10

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

Concen: 52.274 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05055

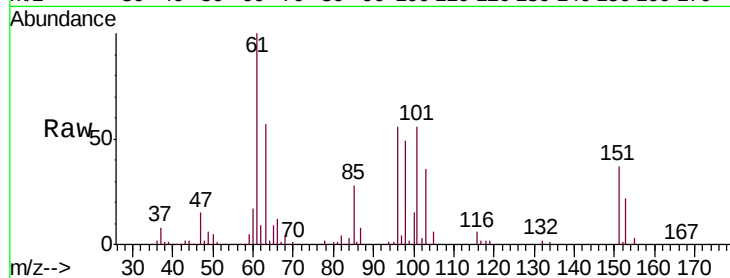
Tgt Ion:101 Resp: 68318

Ion Ratio Lower Upper

101 100

85 47.4 37.0 55.6

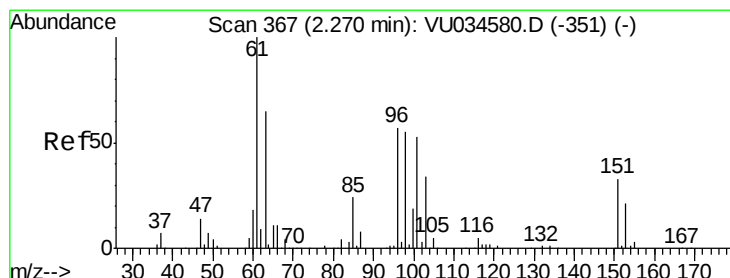
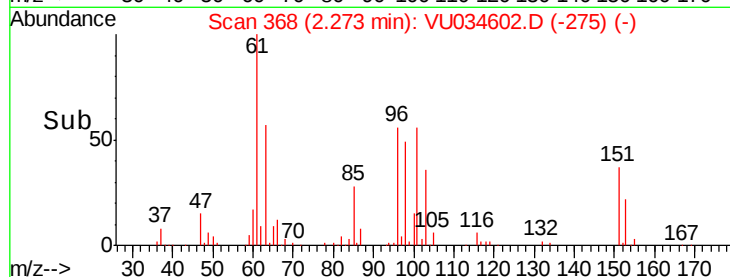
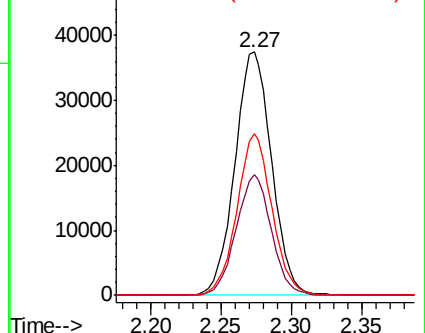
151 63.3 54.1 81.1



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: 51.663 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

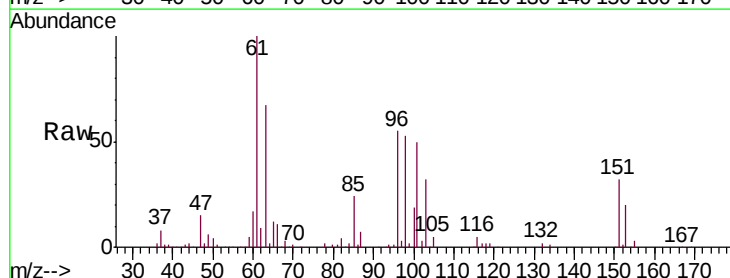
Tgt Ion: 96 Resp: 61654

Ion Ratio Lower Upper

96 100

61 182.8 117.8 218.8

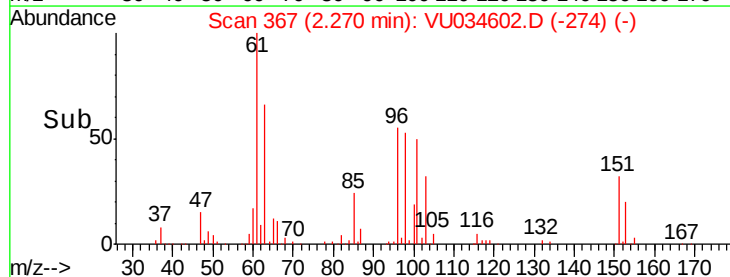
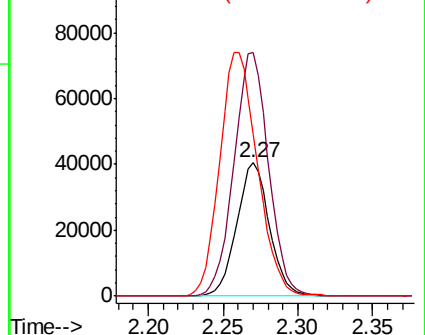
63 121.7 83.8 155.6

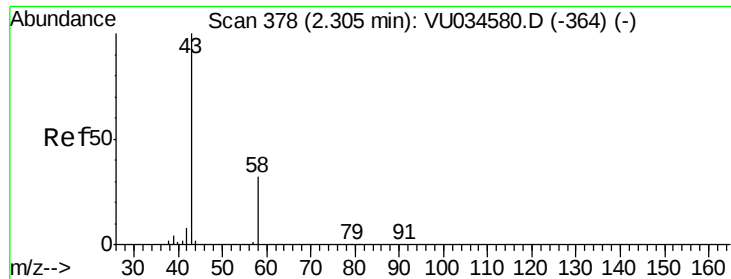


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 85.547 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

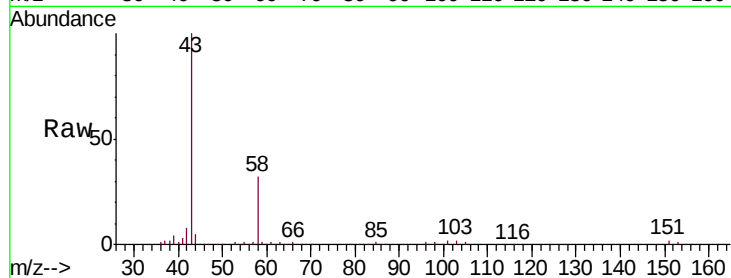
VSTD05055

Tgt Ion: 43 Resp: 105013

Ion Ratio Lower Upper

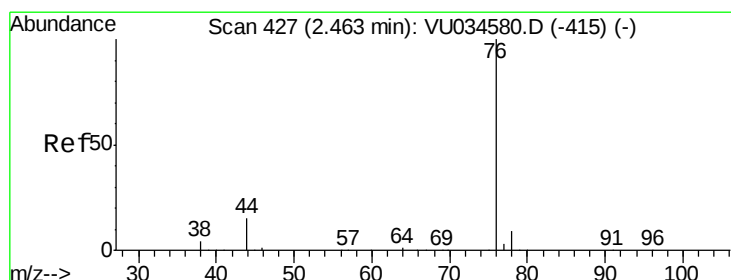
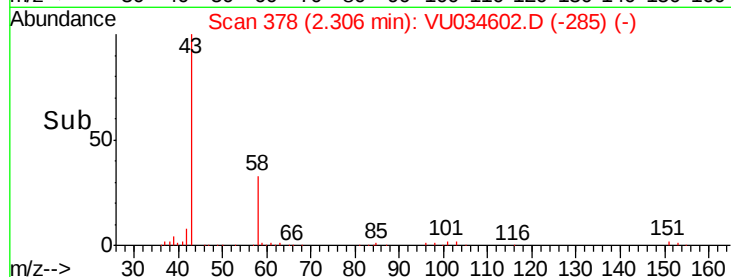
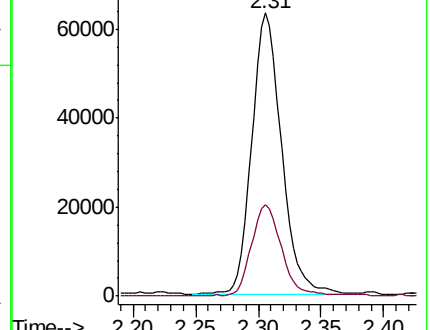
43 100

58 33.0 0.0 65.0



Abundance Ion 43.00 (42.70 to 43.70): VU034580.D (-364) (-)

Ion 58.00 (57.70 to 58.70): VU034580.D (-364) (-)



#14

Carbon disulfide

Concen: 50.703 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034602.D

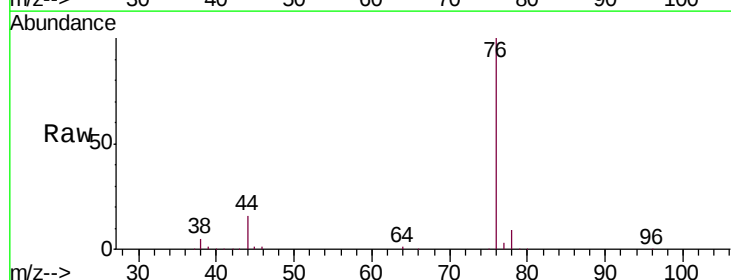
Acq: 17 Sep 2019 06:38

Tgt Ion: 76 Resp: 148543

Ion Ratio Lower Upper

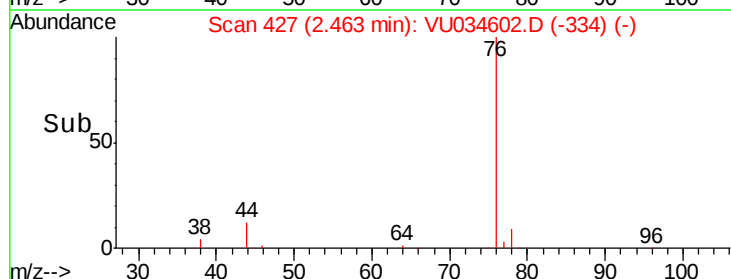
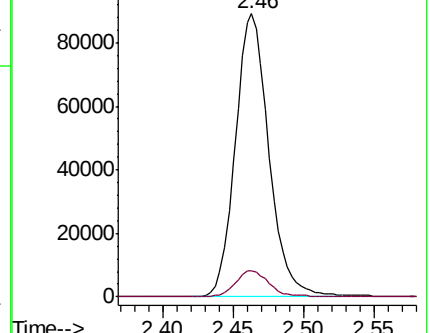
76 100

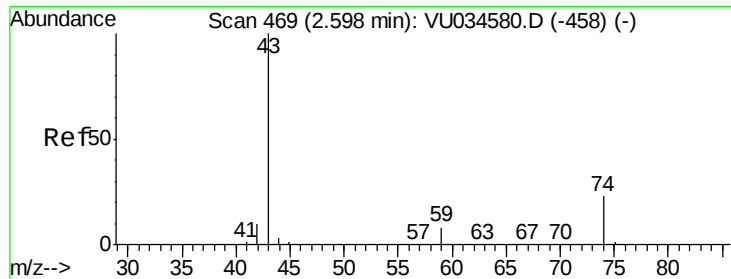
78 9.3 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU034580.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU034580.D (-415) (-)

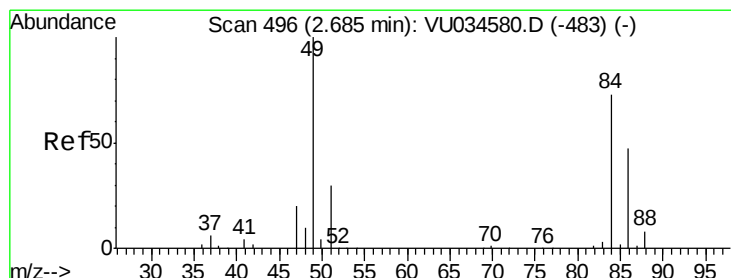
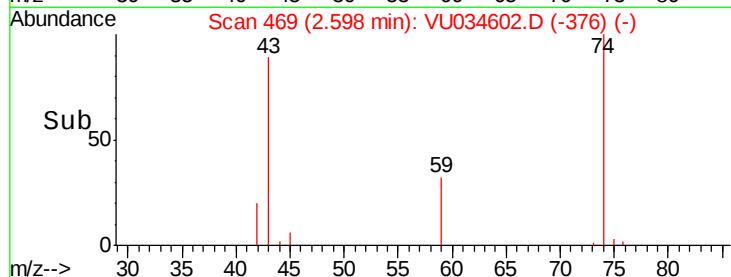
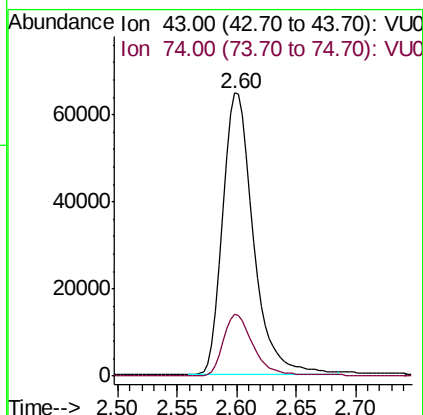
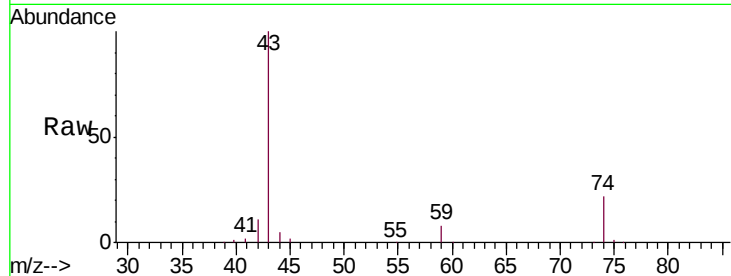




#15  
Methyl Acetate  
Concen: 57.869 ug/L  
RT: 2.60 min Scan# 469  
Delta R.T. 0.00 min  
Lab File: VU034602.D  
Acq: 17 Sep 2019 06:38

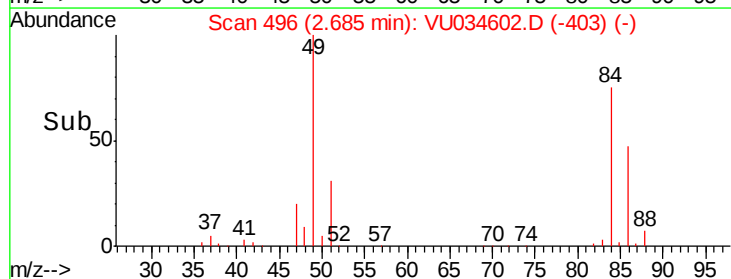
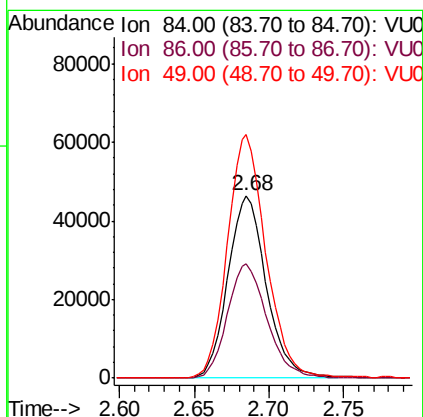
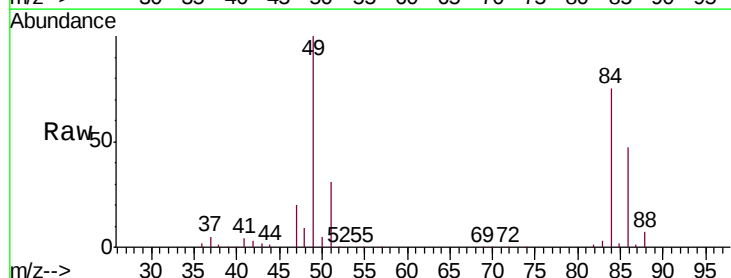
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05055

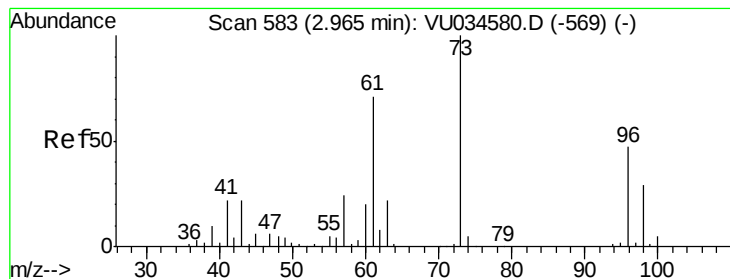
Tgt Ion: 43 Resp: 116266  
Ion Ratio Lower Upper  
43 100  
74 21.3 18.6 28.0



#16  
Methylene chloride  
Concen: 52.570 ug/L  
RT: 2.68 min Scan# 496  
Delta R.T. 0.00 min  
Lab File: VU034602.D  
Acq: 17 Sep 2019 06:38

Tgt Ion: 84 Resp: 82912  
Ion Ratio Lower Upper  
84 100  
86 62.7 45.4 84.4  
49 133.5 93.1 172.9





#17

trans-1,2-Dichloroethene

Concen: 52.705 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05055

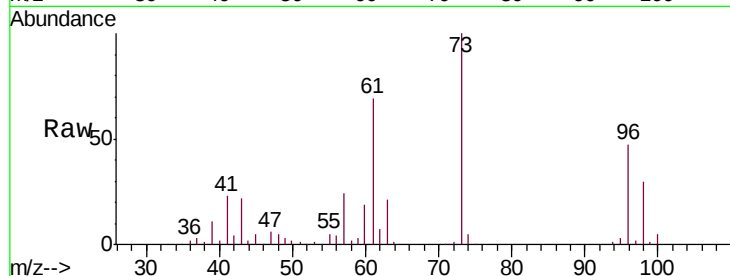
Tgt Ion: 96 Resp: 67315

Ion Ratio Lower Upper

96 100

61 145.5 97.0 180.2

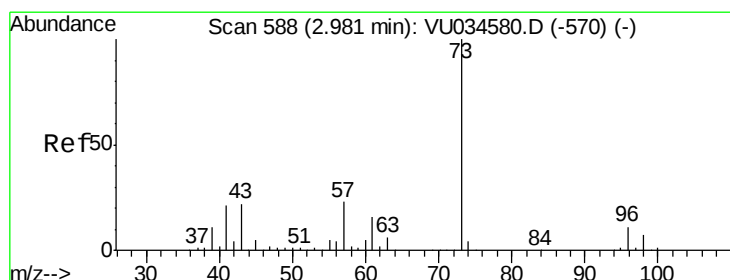
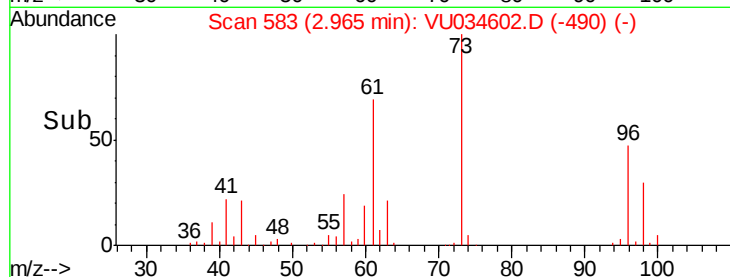
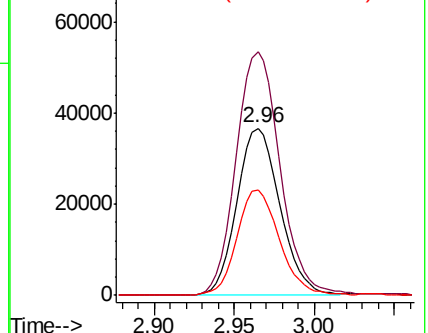
98 62.8 44.1 81.9



Abundance Ion 96.00 (95.70 to 96.70): VU034602.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU034602.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU034602.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 54.307 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

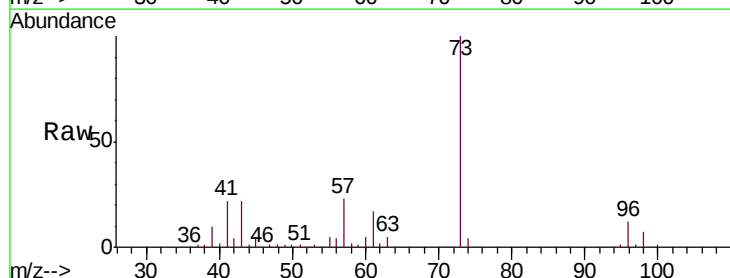
Tgt Ion: 73 Resp: 287167

Ion Ratio Lower Upper

73 100

43 21.4 16.7 25.1

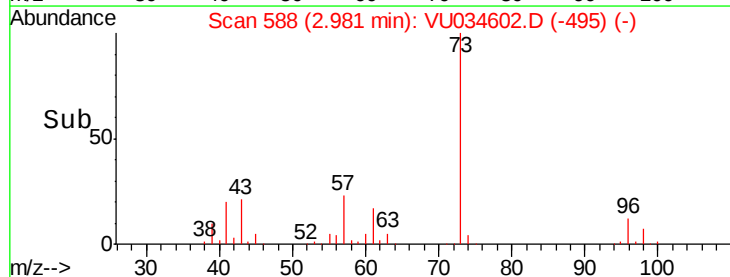
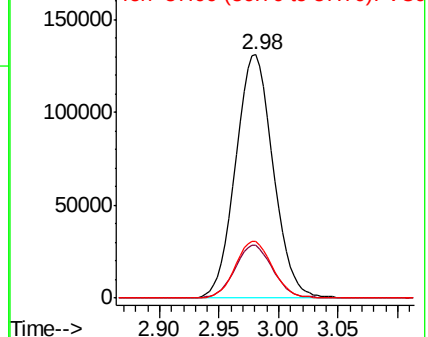
57 23.2 18.6 28.0

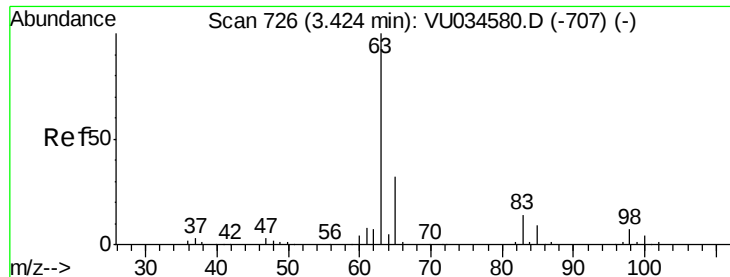


Abundance Ion 73.00 (72.70 to 73.70): VU034602.D (-495) (-)

Ion 43.00 (42.70 to 43.70): VU034602.D (-495) (-)

Ion 57.00 (56.70 to 57.70): VU034602.D (-495) (-)

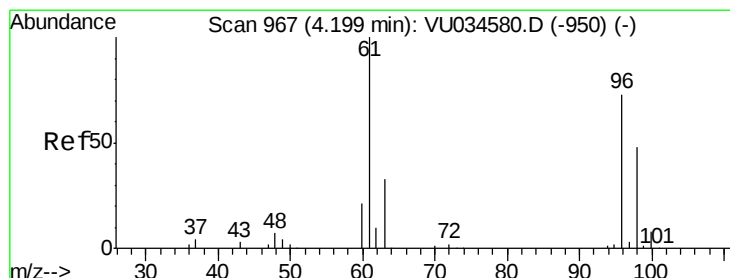
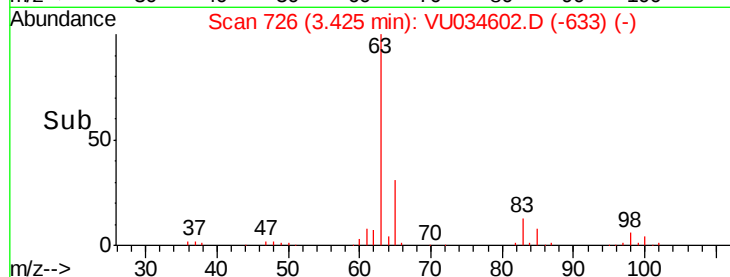
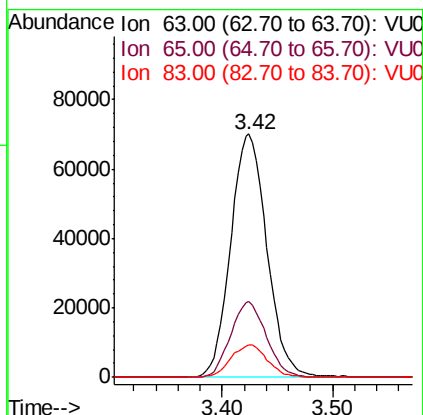
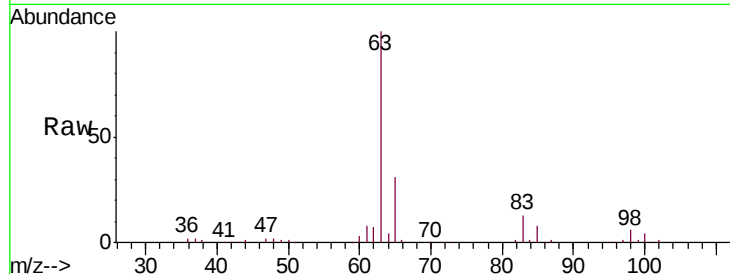




#19  
 1,1-Dichloroethane  
 Concen: 55.438 ug/L  
 RT: 3.42 min Scan# 726  
 Delta R.T. 0.00 min  
 Lab File: VU034602.D  
 Acq: 17 Sep 2019 06:38

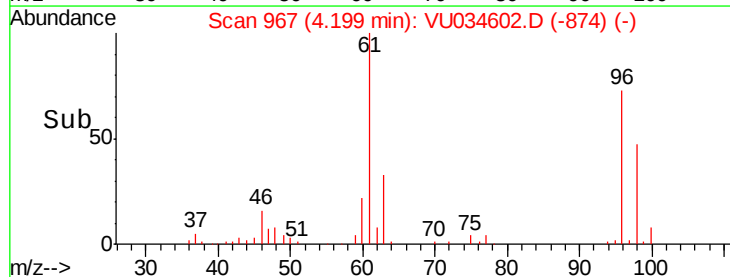
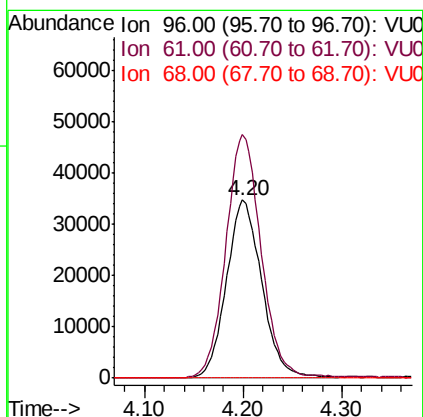
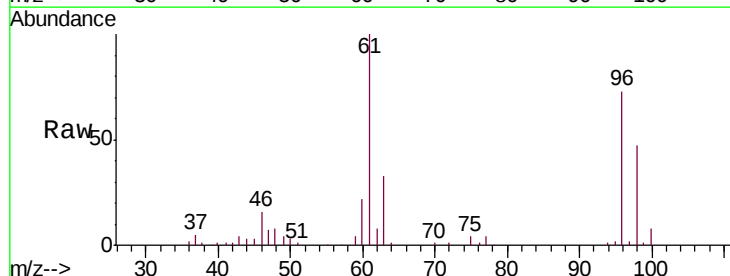
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05055

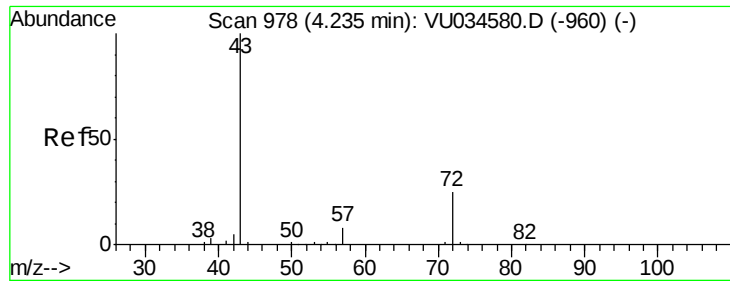
Tgt Ion: 63 Resp: 159410  
 Ion Ratio Lower Upper  
 63 100  
 65 31.3 21.6 40.0  
 83 13.3 9.7 17.9



#20  
 cis-1,2-Dichloroethene  
 Concen: 52.505 ug/L  
 RT: 4.20 min Scan# 967  
 Delta R.T. 0.00 min  
 Lab File: VU034602.D  
 Acq: 17 Sep 2019 06:38

Tgt Ion: 96 Resp: 86846  
 Ion Ratio Lower Upper  
 96 100  
 61 136.8 94.7 175.9  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 111.645 ug/L

RT: 4.23 min Scan# 978

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

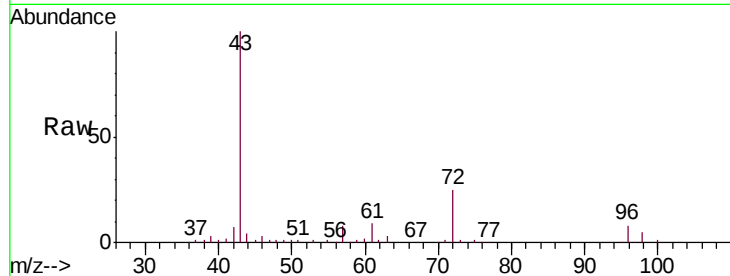
VSTD05055

Tgt Ion: 43 Resp: 174347

Ion Ratio Lower Upper

43 100

72 23.4 12.0 36.1



Abundance Ion 43.00 (42.70 to 43.70): VU034602.D (-978) (-)

Ion 72.00 (71.70 to 72.70): VU034602.D (-978) (-)

4.23

60000

40000

20000

0

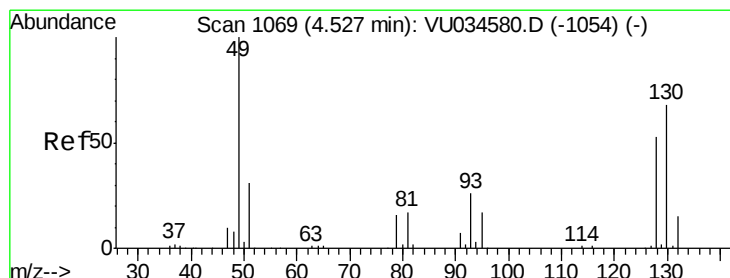
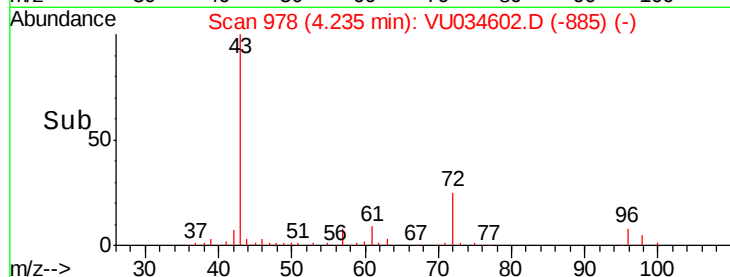
Time-->

4.10

4.20

4.30

4.40



#23

Bromochloromethane

Concen: 51.350 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Tgt Ion: 128 Resp: 40100

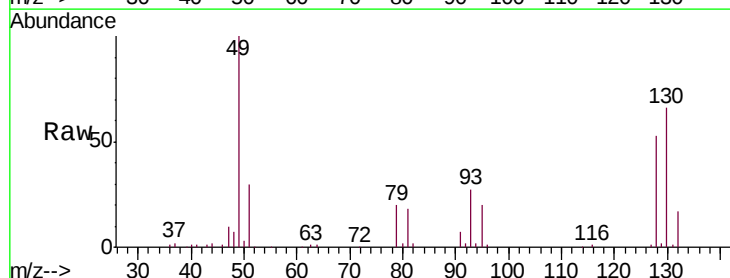
Ion Ratio Lower Upper

128 100

49 189.5 125.6 233.3

130 125.4 89.8 166.8

51 57.0 46.0 69.0



Abundance Ion 128.00 (127.70 to 128.70): VU034602.D (-1068) (-)

Ion 49.00 (48.70 to 49.70): VU034602.D (-1068) (-)

Ion 130.00 (129.70 to 130.70): VU034602.D (-1068) (-)

Ion 51.00 (50.70 to 51.70): VU034602.D (-1068) (-)

50000

40000

30000

20000

10000

0

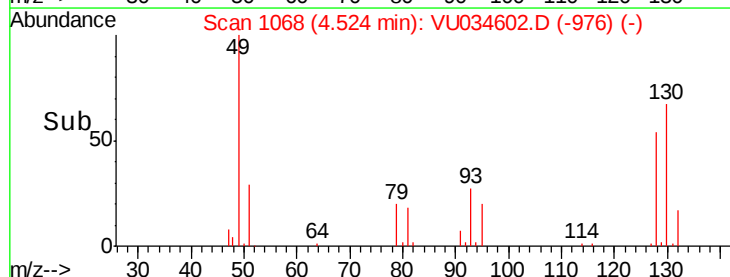
Time-->

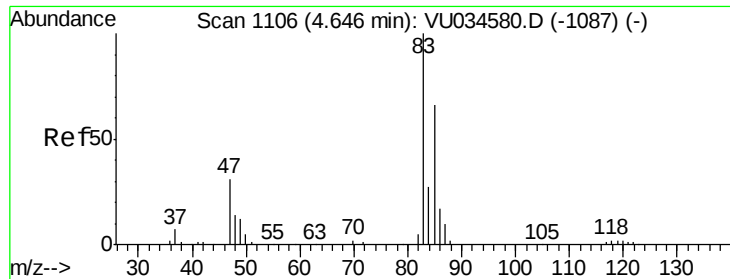
4.45

4.50

4.55

4.60

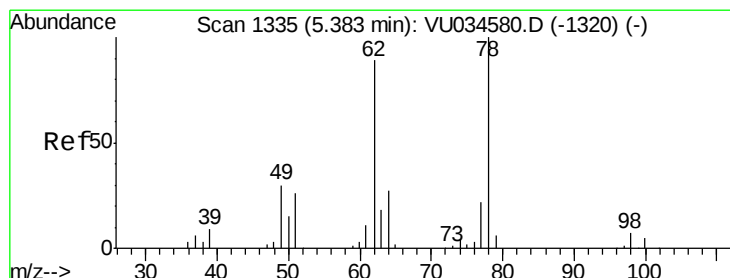
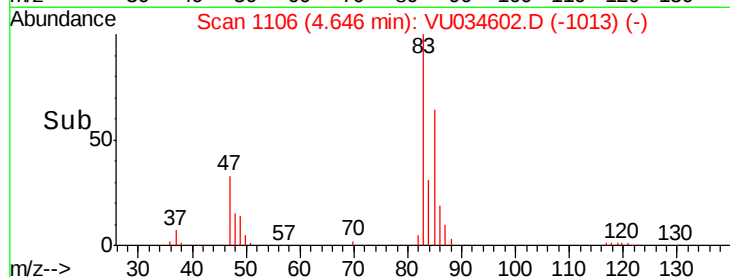
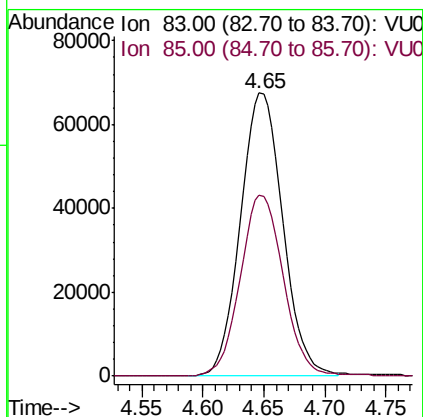
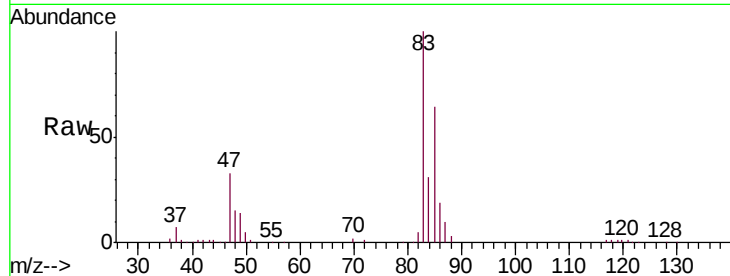




#25  
Chloroform  
Concen: 54.013 ug/L  
RT: 4.65 min Scan# 1106  
Delta R.T. 0.00 min  
Lab File: VU034602.D  
Acq: 17 Sep 2019 06:38

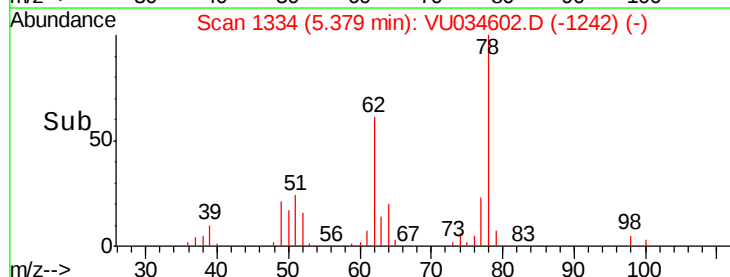
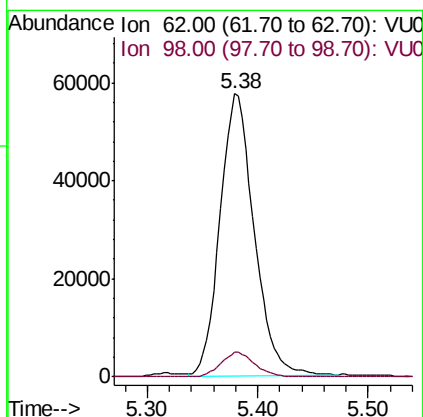
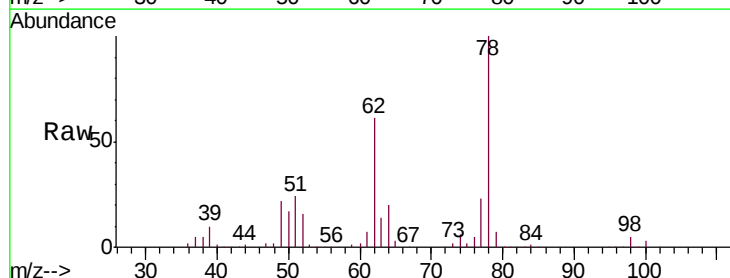
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05055

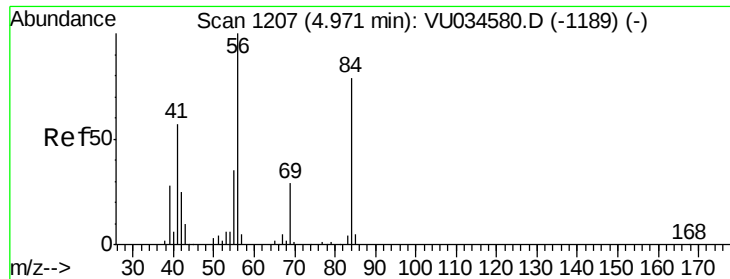
Tgt Ion: 83 Resp: 162420  
Ion Ratio Lower Upper  
83 100  
85 63.8 46.6 86.6



#27  
1,2-Dichloroethane  
Concen: 57.768 ug/L  
RT: 5.38 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VU034602.D  
Acq: 17 Sep 2019 06:38

Tgt Ion: 62 Resp: 122998  
Ion Ratio Lower Upper  
62 100  
98 8.6 7.4 11.0

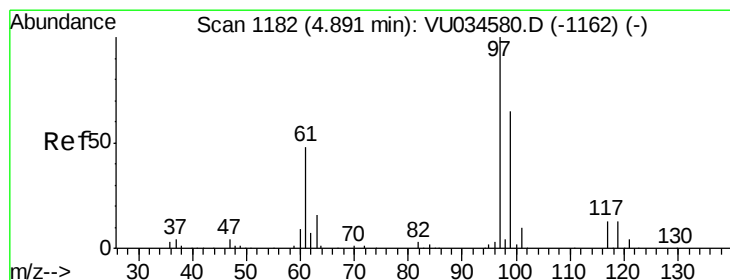
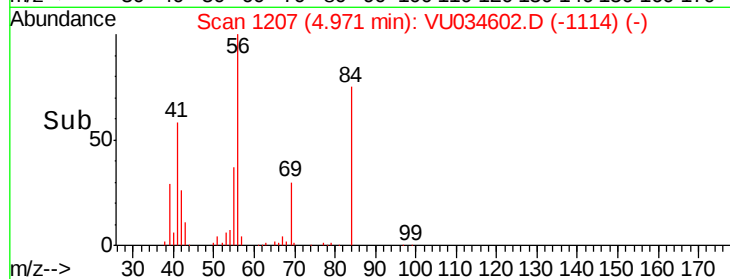
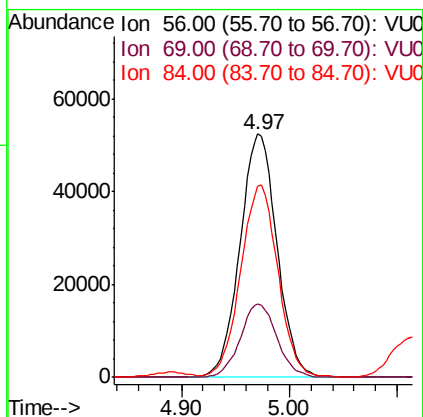
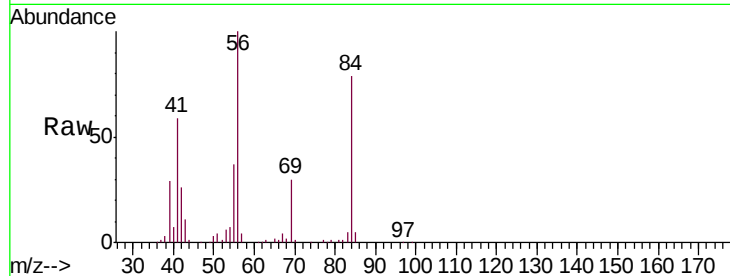




#29  
Cyclohexane  
Concen: 53.516 ug/L  
RT: 4.97 min Scan# 1207  
Delta R.T. 0.00 min  
Lab File: VU034602.D  
Acq: 17 Sep 2019 06:38

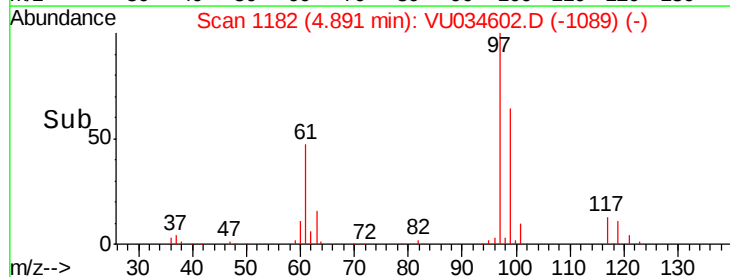
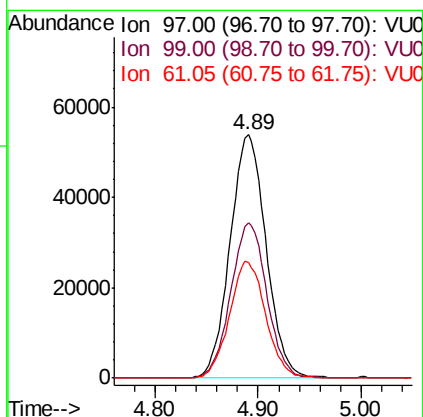
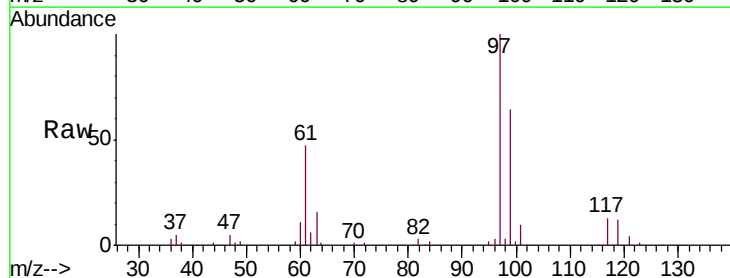
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05055

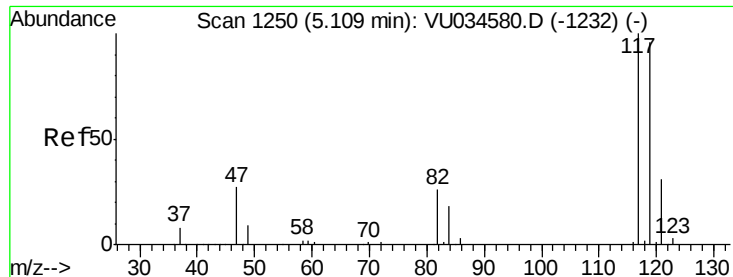
Tgt Ion: 56 Resp: 124865  
Ion Ratio Lower Upper  
56 100  
69 29.9 23.3 34.9  
84 78.3 64.2 96.4



#30  
1,1,1-Trichloroethane  
Concen: 54.822 ug/L  
RT: 4.89 min Scan# 1182  
Delta R.T. 0.00 min  
Lab File: VU034602.D  
Acq: 17 Sep 2019 06:38

Tgt Ion: 97 Resp: 131114  
Ion Ratio Lower Upper  
97 100  
99 63.8 50.7 76.1  
61 48.2 36.9 55.3





#31

Carbon tetrachloride

Concen: 53.486 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

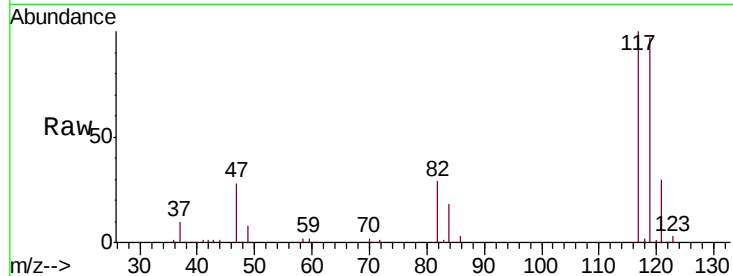
VSTD05055

Tgt Ion:117 Resp: 107992

Ion Ratio Lower Upper

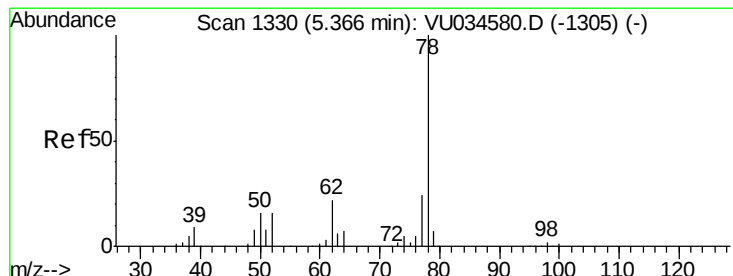
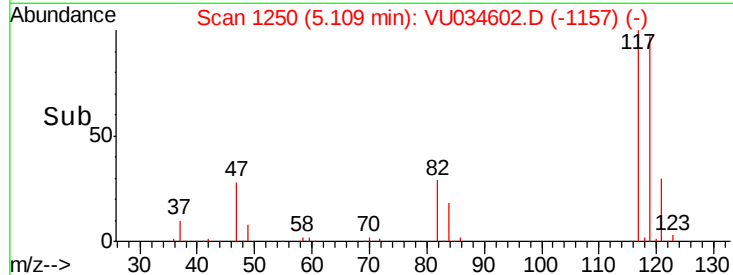
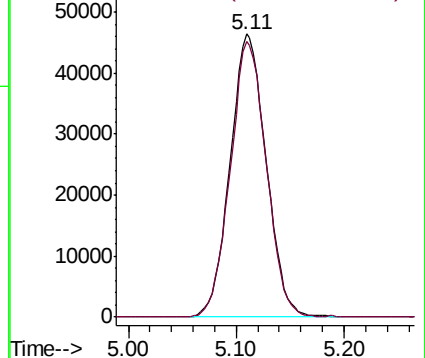
117 100

119 97.0 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 54.442 ug/L

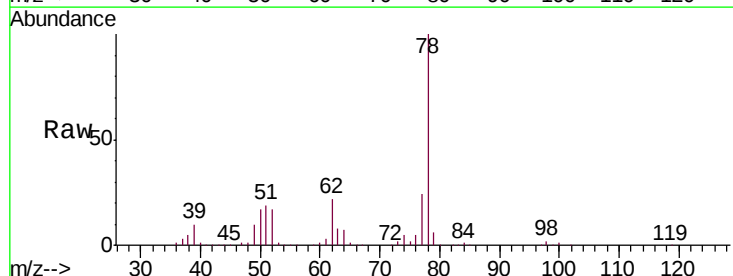
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

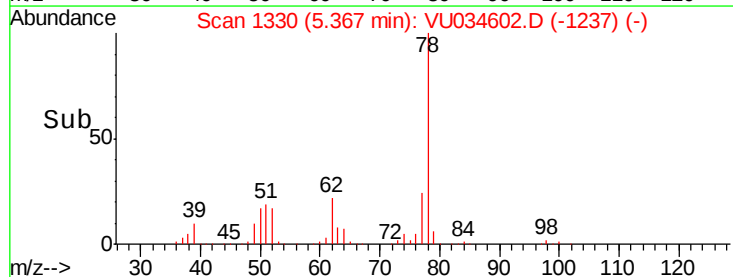
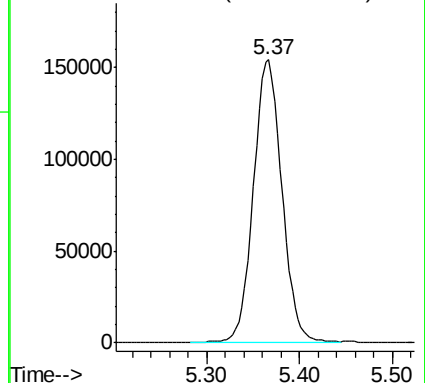
Lab File: VU034602.D

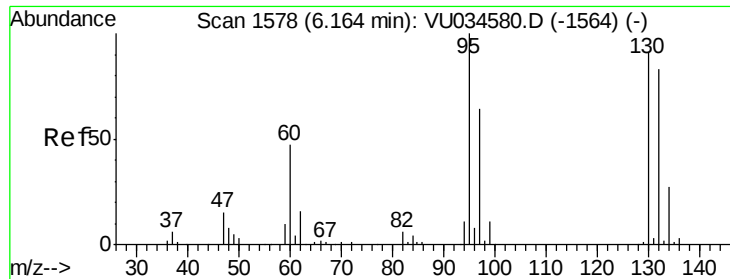
Acq: 17 Sep 2019 06:38

Tgt Ion: 78 Resp: 330520



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 53.176 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05055

Tgt Ion: 95 Resp: 80418

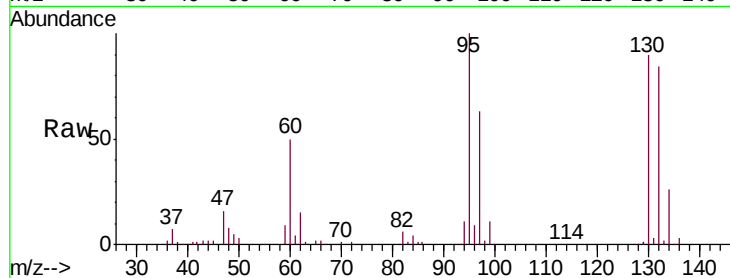
Ion Ratio Lower Upper

95 100

97 62.7 45.4 84.4

132 84.3 65.2 121.0

130 89.9 68.5 127.3

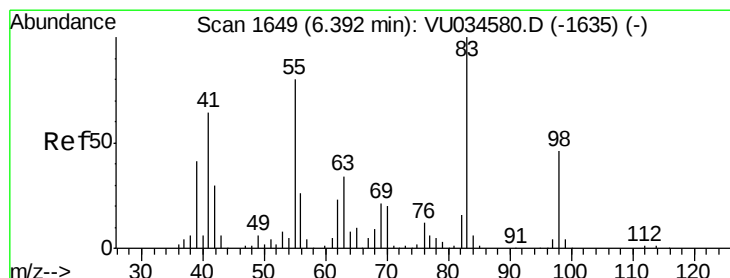
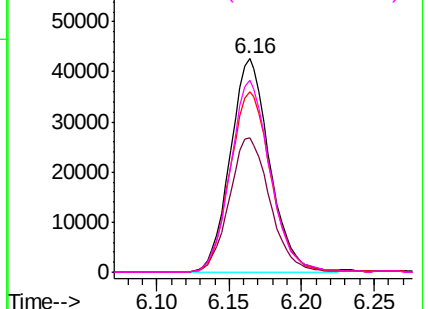
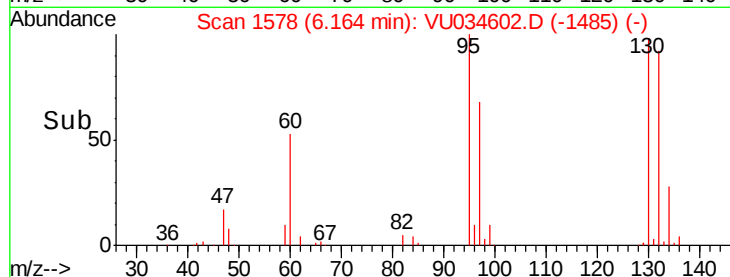


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 52.065 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

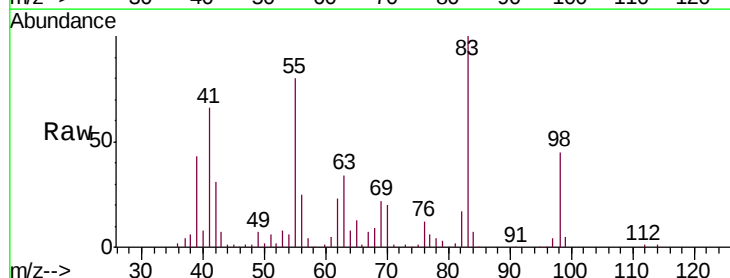
Tgt Ion: 83 Resp: 119368

Ion Ratio Lower Upper

83 100

55 79.4 63.0 94.6

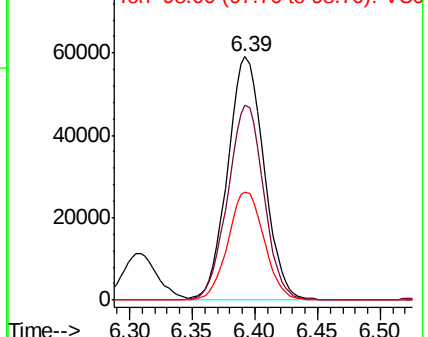
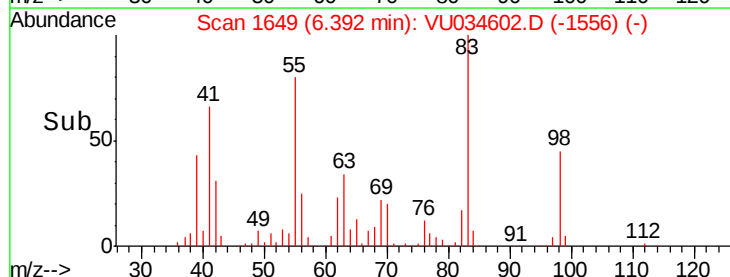
98 44.4 36.2 54.2

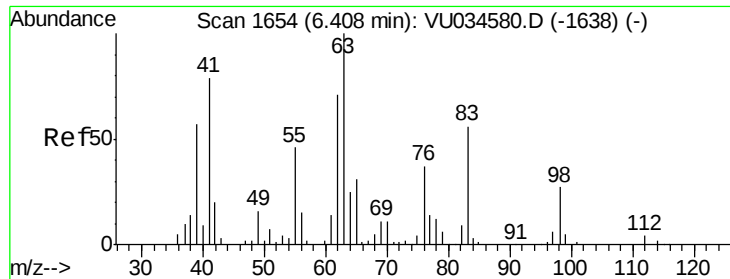


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

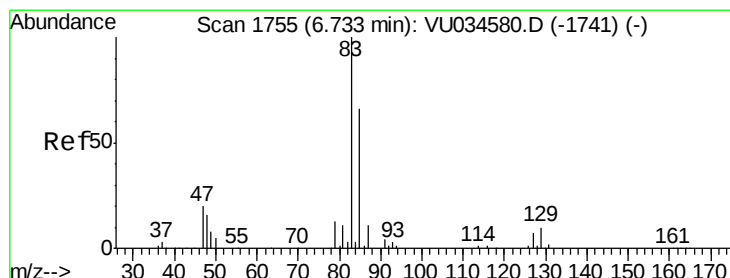
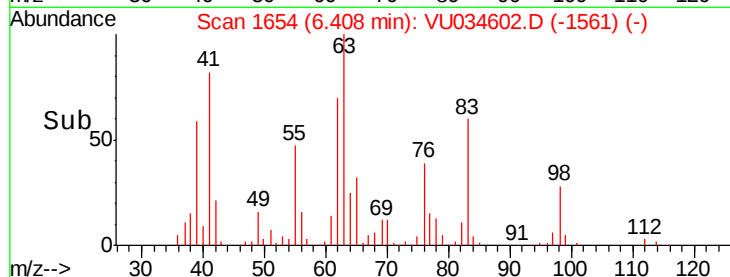
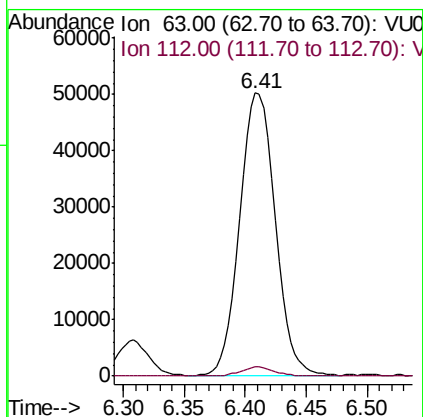
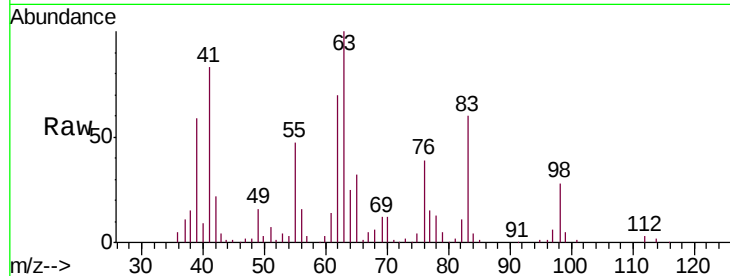




#37  
 1,2-Dichloropropane  
 Concen: 55.259 ug/L  
 RT: 6.41 min Scan# 1654  
 Delta R.T. 0.00 min  
 Lab File: VU034602.D  
 Acq: 17 Sep 2019 06:38

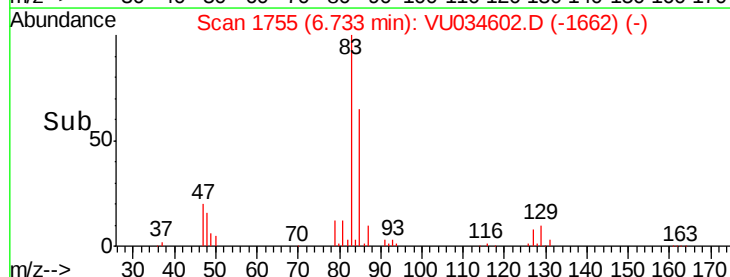
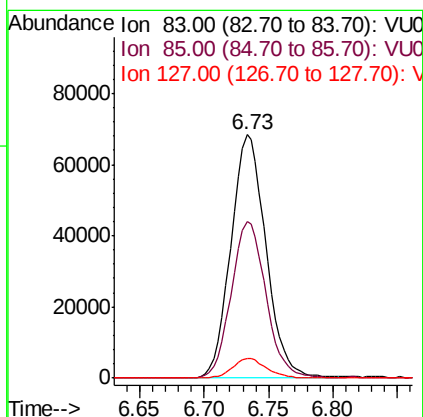
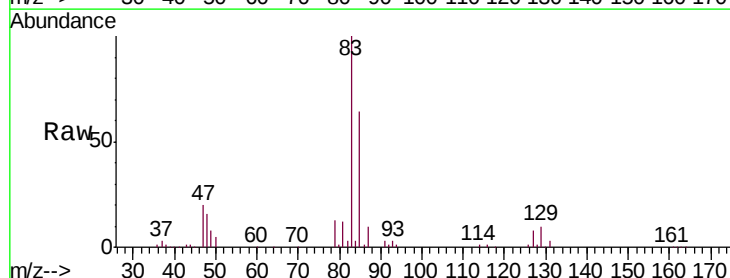
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05055

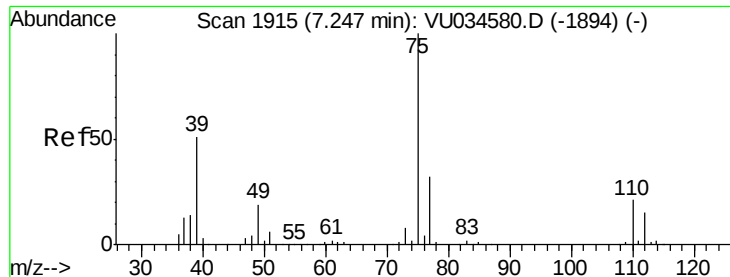
Tgt Ion: 63 Resp: 101822  
 Ion Ratio Lower Upper  
 63 100  
 112 3.1 2.9 4.3



#38  
 Bromodichloromethane  
 Concen: 53.710 ug/L  
 RT: 6.73 min Scan# 1755  
 Delta R.T. 0.00 min  
 Lab File: VU034602.D  
 Acq: 17 Sep 2019 06:38

Tgt Ion: 83 Resp: 129377  
 Ion Ratio Lower Upper  
 83 100  
 85 64.4 46.1 85.7  
 127 8.2 7.0 10.6

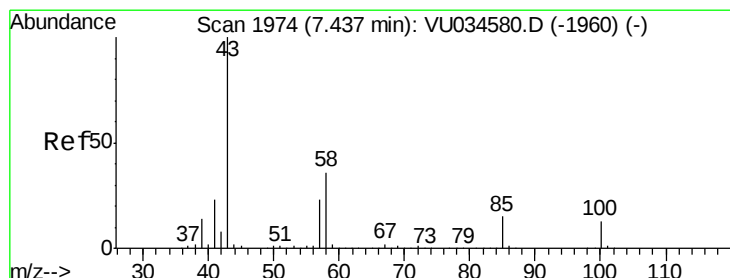
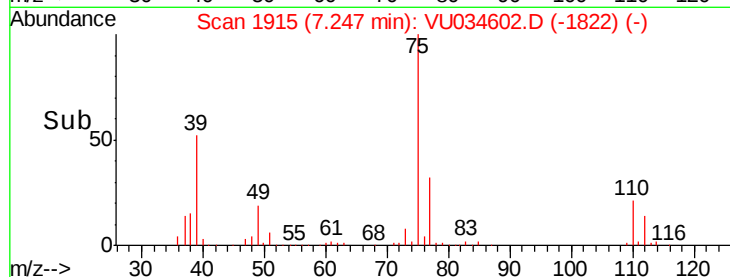
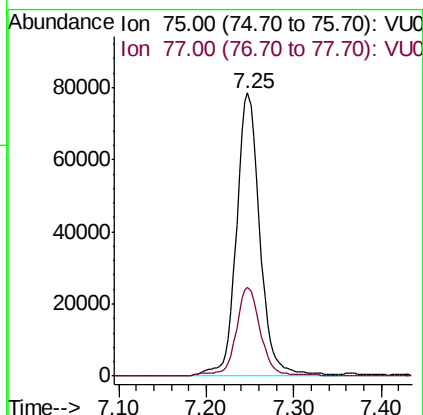
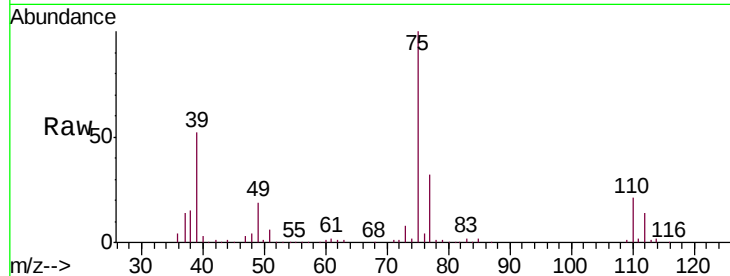




#39  
 cis-1,3-Dichloropropene  
 Concen: 53.034 ug/L  
 RT: 7.25 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VU034602.D  
 Acq: 17 Sep 2019 06:38

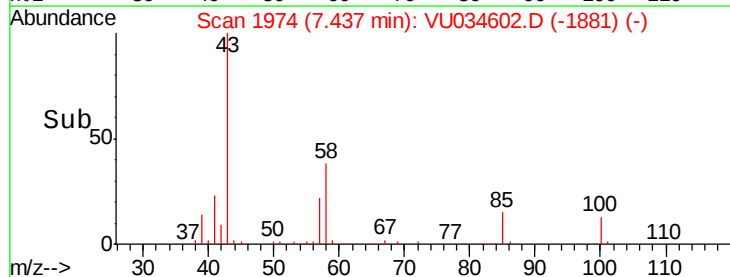
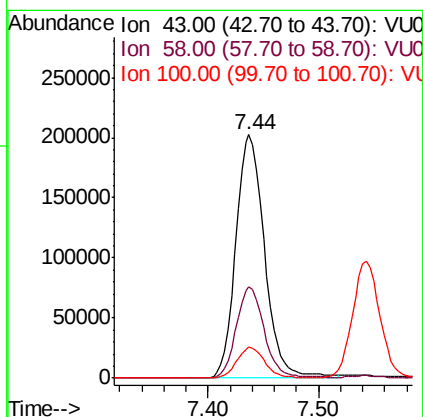
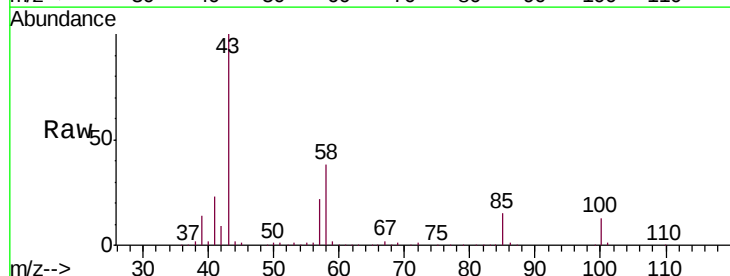
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05055

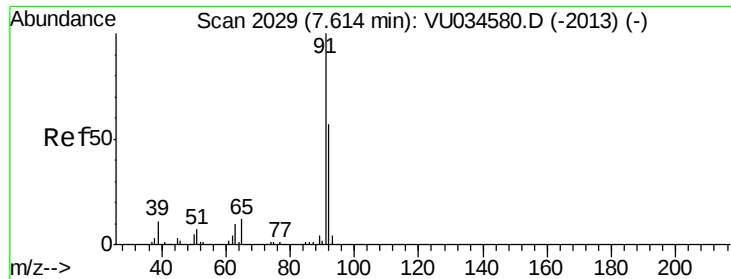
Tgt Ion: 75 Resp: 146820  
 Ion Ratio Lower Upper  
 75 100  
 77 31.5 22.3 41.3



#40  
 4-Methyl-2-pentanone  
 Concen: 113.626 ug/L  
 RT: 7.44 min Scan# 1974  
 Delta R.T. 0.00 min  
 Lab File: VU034602.D  
 Acq: 17 Sep 2019 06:38

Tgt Ion: 43 Resp: 364197  
 Ion Ratio Lower Upper  
 43 100  
 58 36.3 30.4 45.6  
 100 12.3 10.2 15.4





#42

Toluene

Concen: 54.082 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

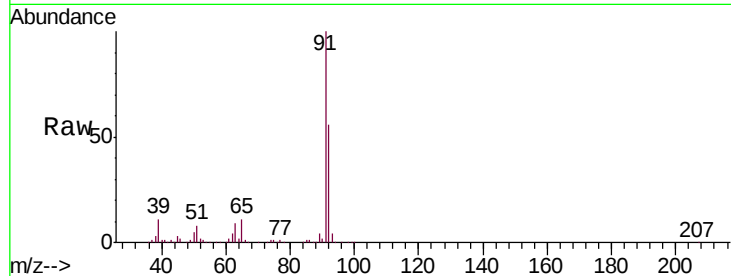
VSTD05055

Tgt Ion: 91 Resp: 354010

Ion Ratio Lower Upper

91 100

92 55.6 38.4 71.4



Abundance Ion 91.00 (90.70 to 91.70): VU034580.D (-2013) (-)

Ion 92.00 (91.70 to 92.70): VU034580.D (-2013) (-)

7.61

200000

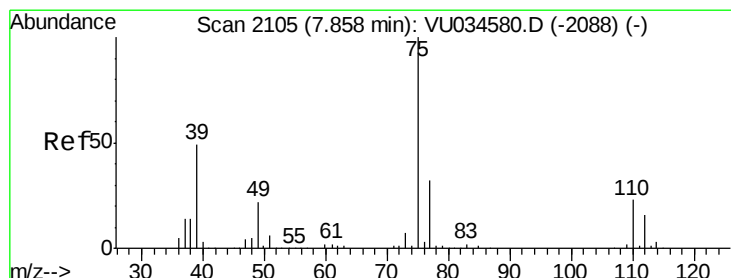
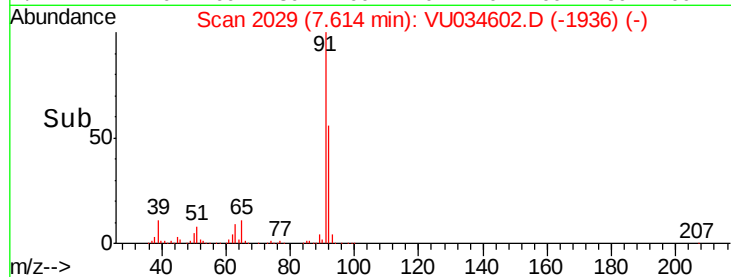
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#44

trans-1,3-Dichloropropene

Concen: 50.617 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VU034602.D

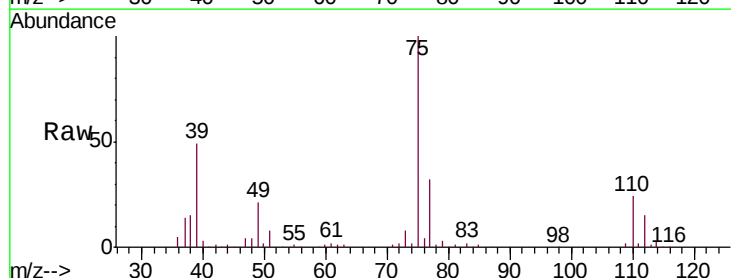
Acq: 17 Sep 2019 06:38

Tgt Ion: 75 Resp: 128492

Ion Ratio Lower Upper

75 100

77 32.1 22.9 42.5



Abundance Ion 75.00 (74.70 to 75.70): VU034580.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU034580.D (-2088) (-)

7.86

80000

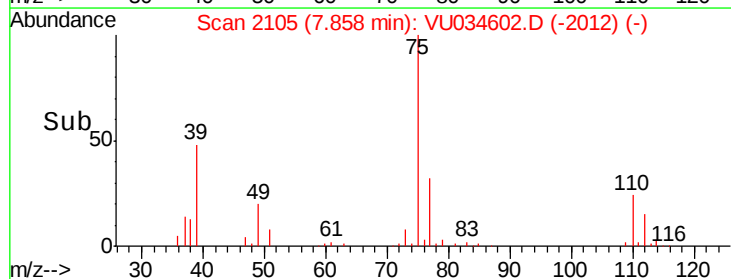
60000

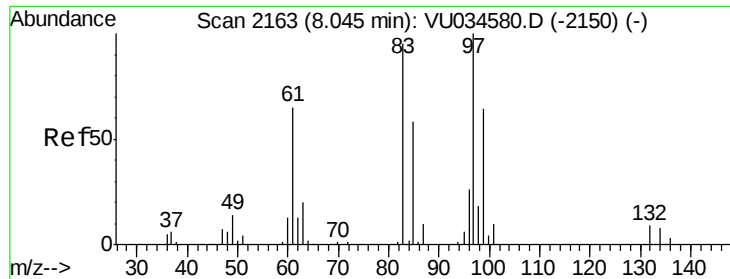
40000

20000

0

Time--> 7.75 7.80 7.85 7.90 7.95

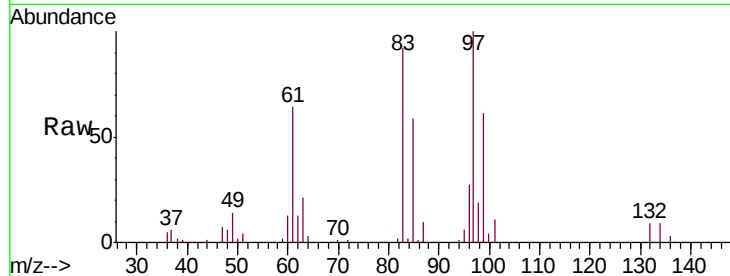




#45  
 1,1,2-Trichloroethane  
 Concen: 53.622 ug/L  
 RT: 8.04 min Scan# 2163  
 Delta R.T. 0.00 min  
 Lab File: VU034602.D  
 Acq: 17 Sep 2019 06:38

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05055

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 90168 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 61.1  | 42.4  | 78.8  |
| 83       | 91.6  | 62.5  | 116.1 |
| 85       | 58.6  | 40.7  | 75.7  |



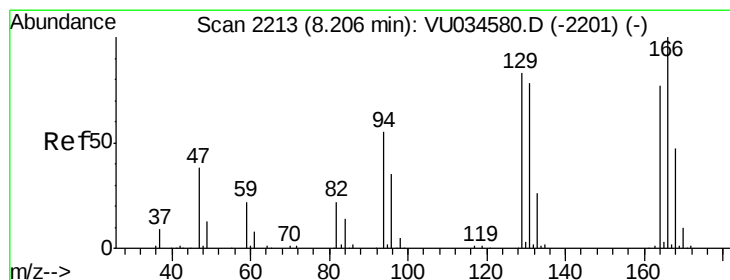
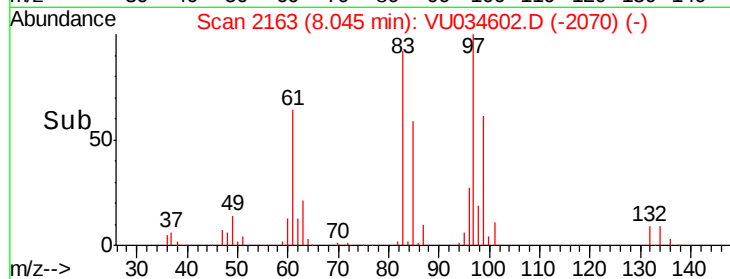
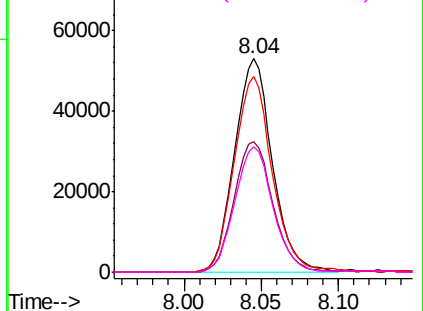
Abundance

Ion 97.00 (96.70 to 97.70): VU034602.D (-2070) (-)

Ion 99.00 (98.70 to 99.70): VU034602.D (-2070) (-)

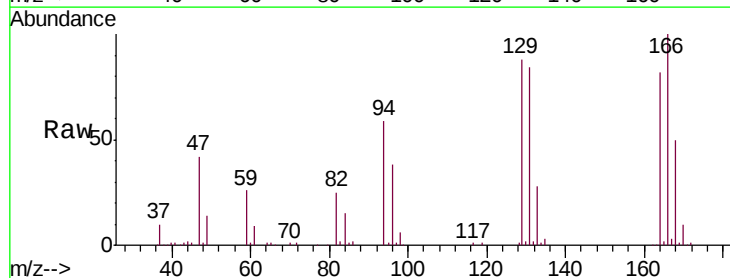
Ion 83.00 (82.70 to 83.70): VU034602.D (-2070) (-)

Ion 85.00 (84.70 to 85.70): VU034602.D (-2070) (-)



#46  
 Tetrachloroethene  
 Concen: 49.945 ug/L  
 RT: 8.21 min Scan# 2213  
 Delta R.T. 0.00 min  
 Lab File: VU034602.D  
 Acq: 17 Sep 2019 06:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 50137 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 106.5 | 74.5  | 138.3 |
| 131      | 101.5 | 70.4  | 130.8 |
| 166      | 121.5 | 91.7  | 170.3 |



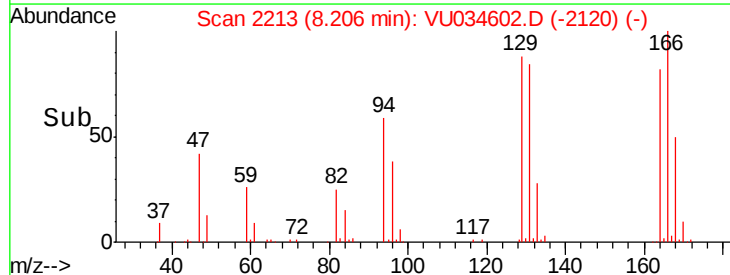
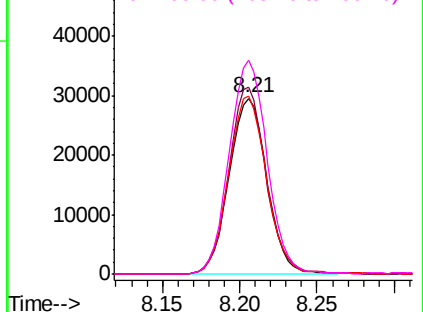
Abundance

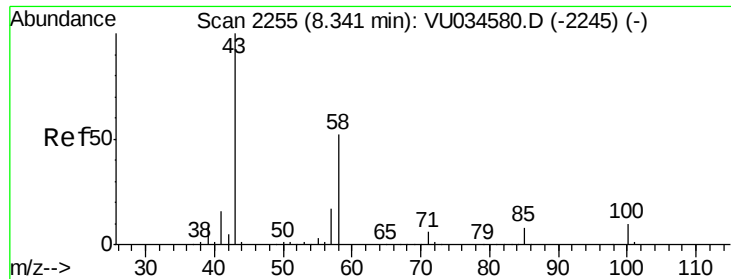
Ion 164.00 (163.70 to 164.70): VU034602.D (-2120) (-)

Ion 129.00 (128.70 to 129.70): VU034602.D (-2120) (-)

Ion 131.00 (130.70 to 131.70): VU034602.D (-2120) (-)

Ion 166.00 (165.70 to 166.70): VU034602.D (-2120) (-)

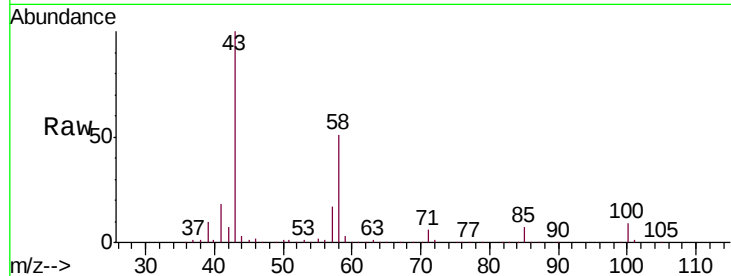




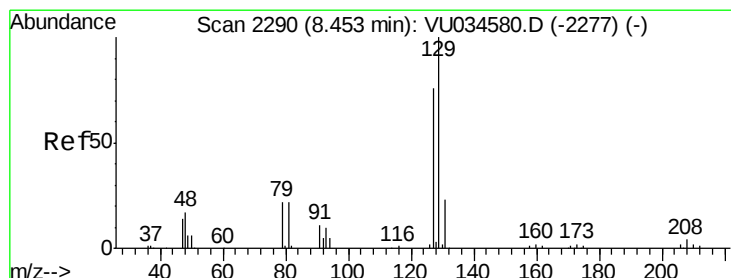
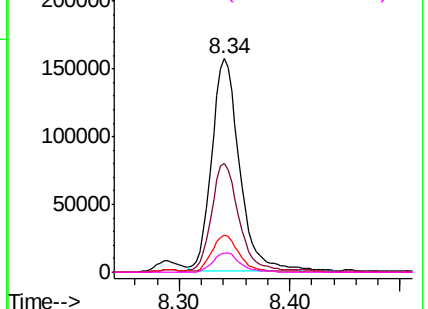
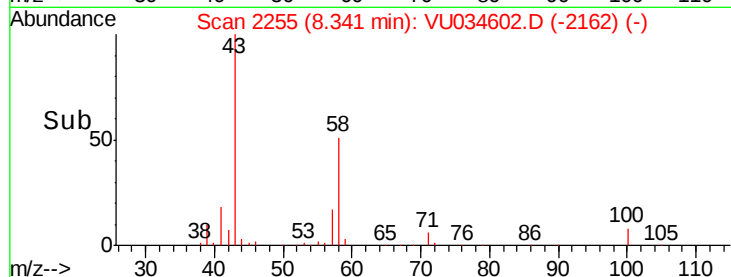
#48  
2-Hexanone  
Concen: 113.418 ug/L  
RT: 8.34 min Scan# 2255  
Delta R.T. 0.00 min  
Lab File: VU034602.D  
Acq: 17 Sep 2019 06:38

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05055

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 273106 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 49.5  | 43.3  | 64.9   |
| 57       | 17.6  | 13.1  | 19.7   |
| 100      | 9.1   | 8.2   | 12.4   |

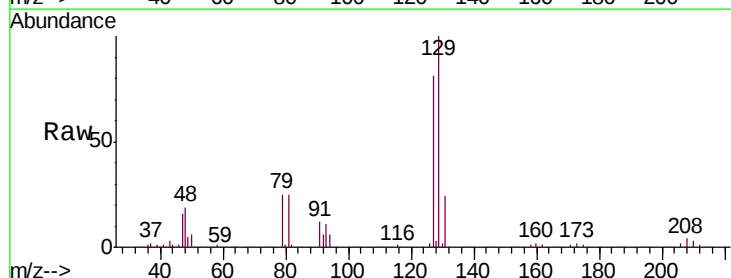


Abundance Ion 43.00 (42.70 to 43.70): VU034602.D (-2162) (-)  
Ion 58.00 (57.70 to 58.70): VU034602.D (-2162) (-)  
Ion 57.00 (56.70 to 57.70): VU034602.D (-2162) (-)  
Ion 100.00 (99.70 to 100.70): VU034602.D (-2162) (-)

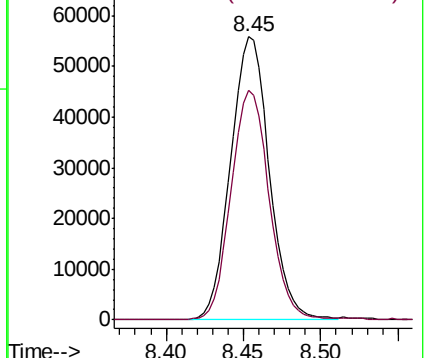
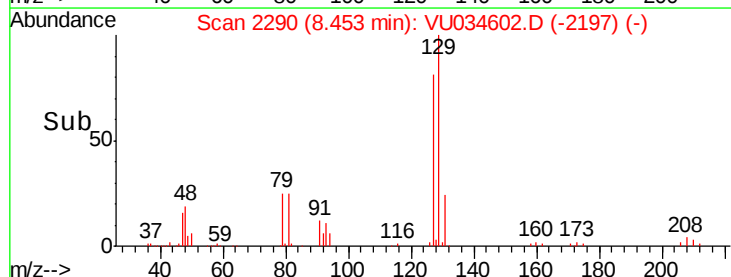


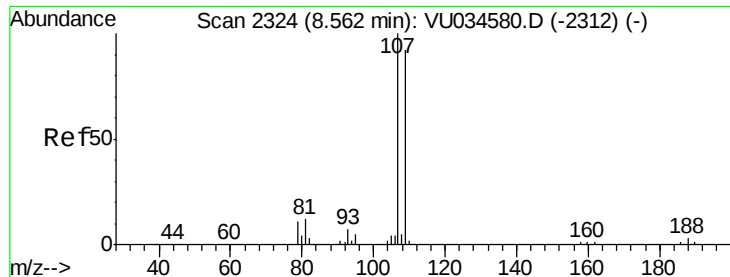
#49  
Dibromochloromethane  
Concen: 50.934 ug/L  
RT: 8.45 min Scan# 2290  
Delta R.T. 0.00 min  
Lab File: VU034602.D  
Acq: 17 Sep 2019 06:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 97000 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 81.1  | 53.5  | 99.5  |



Abundance Ion 129.00 (128.70 to 129.70): VU034602.D (-2197) (-)  
Ion 127.00 (126.70 to 127.70): VU034602.D (-2197) (-)

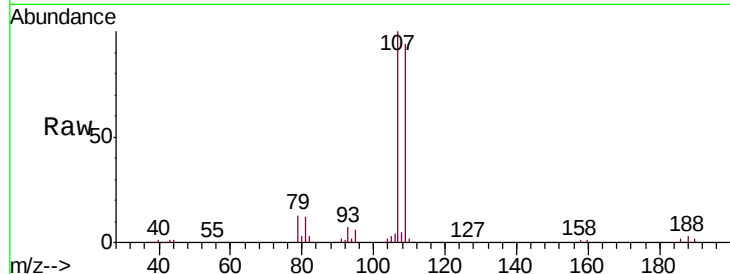




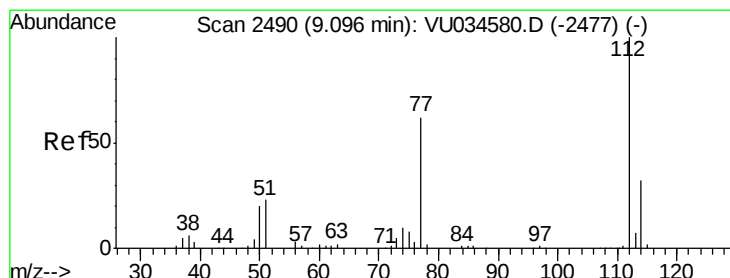
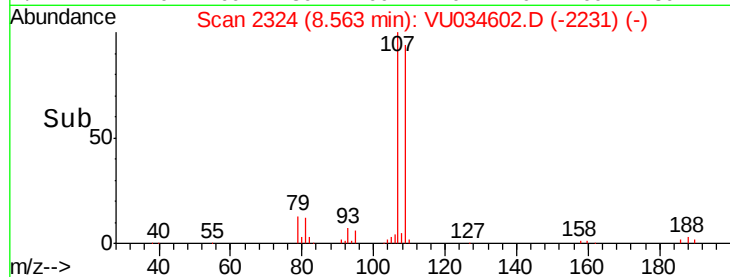
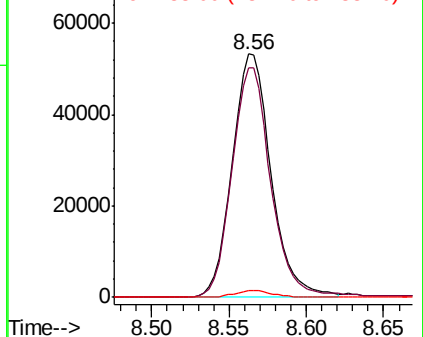
#50  
1,2-Dibromoethane  
Concen: 52.858 ug/L  
RT: 8.56 min Scan# 2324  
Delta R.T. 0.00 min  
Lab File: VU034602.D  
Acq: 17 Sep 2019 06:38

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05055

Tgt Ion:107 Resp: 92903  
Ion Ratio Lower Upper  
107 100  
109 94.2 65.9 122.3  
188 2.7 2.6 3.8

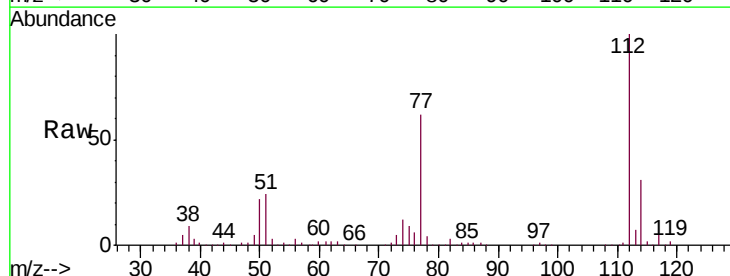


Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V

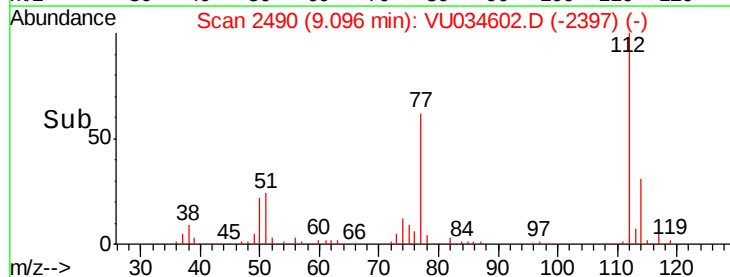
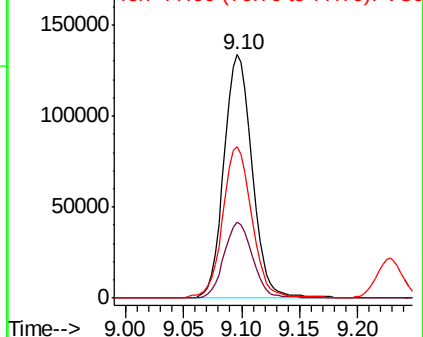


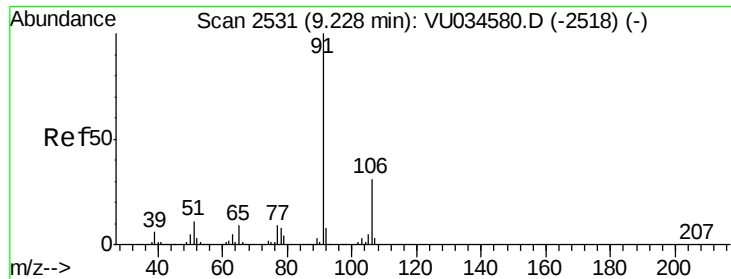
#51  
Chlorobenzene  
Concen: 52.595 ug/L  
RT: 9.10 min Scan# 2490  
Delta R.T. 0.00 min  
Lab File: VU034602.D  
Acq: 17 Sep 2019 06:38

Tgt Ion:112 Resp: 224922  
Ion Ratio Lower Upper  
112 100  
114 31.0 23.0 42.8  
77 62.1 49.0 73.6



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 53.019 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

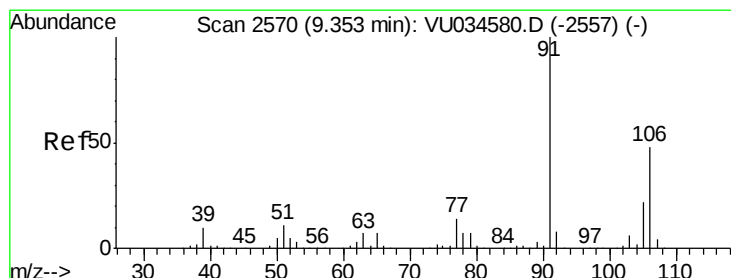
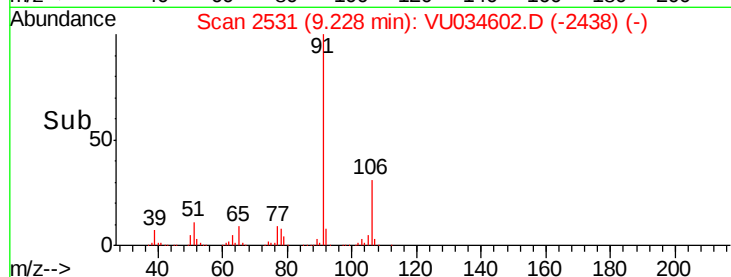
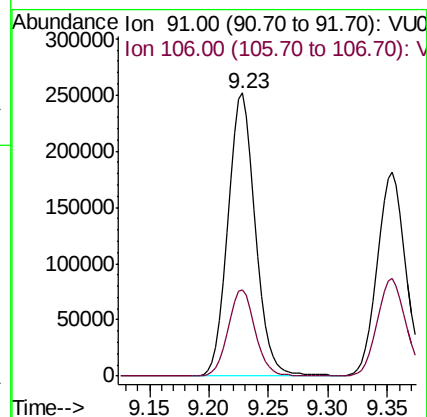
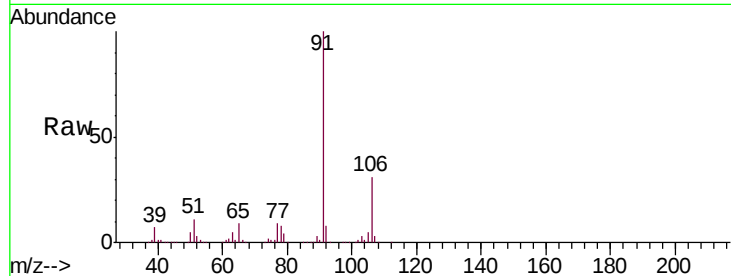
VSTD05055

Tgt Ion: 91 Resp: 401541

Ion Ratio Lower Upper

91 100

106 30.6 21.4 39.8



#53

m,p-Xylene

Concen: 52.908 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU034602.D

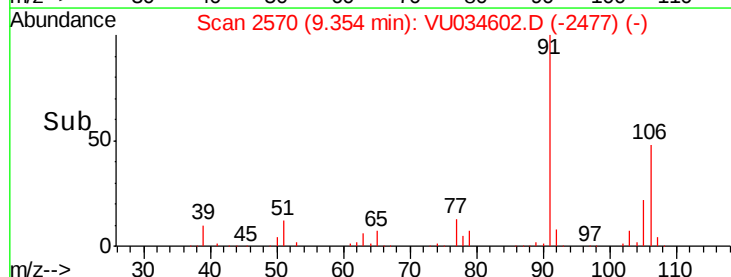
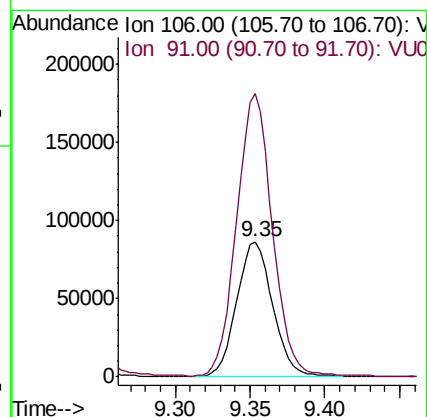
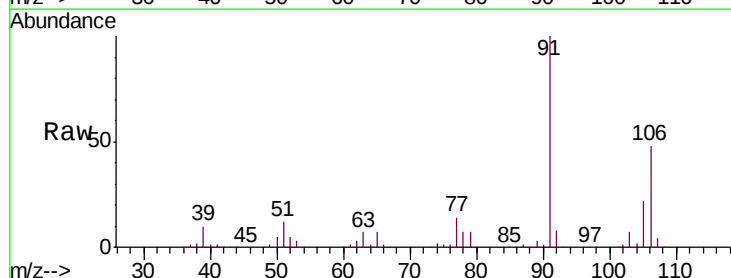
Acq: 17 Sep 2019 06:38

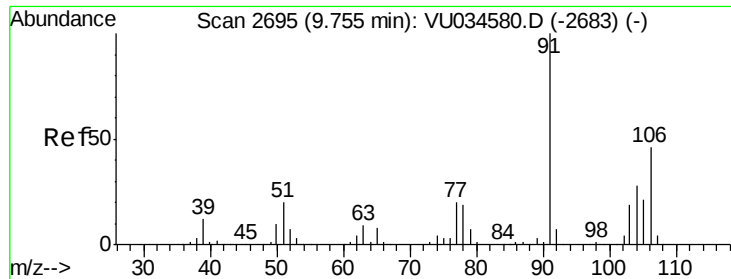
Tgt Ion: 106 Resp: 144061

Ion Ratio Lower Upper

106 100

91 209.1 142.6 264.8

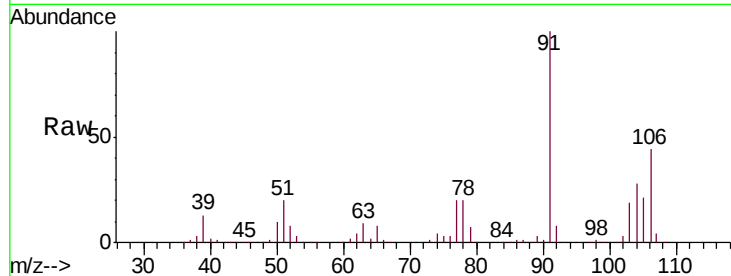




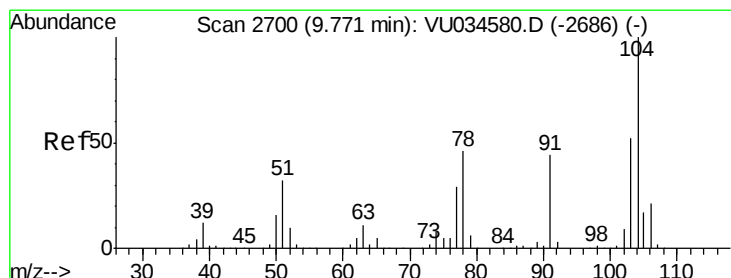
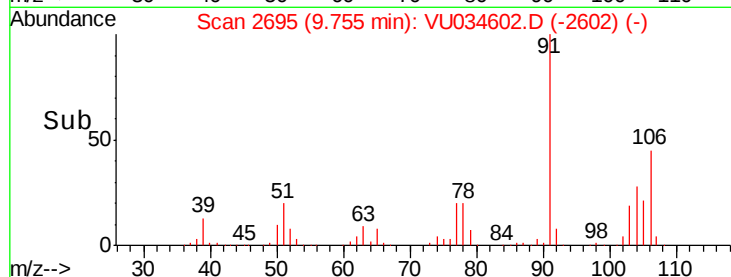
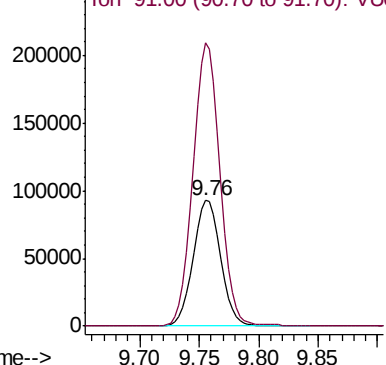
#54  
o-xylene  
Concen: 53.701 ug/L  
RT: 9.76 min Scan# 2695  
Delta R.T. 0.00 min  
Lab File: VU034602.D  
Acq: 17 Sep 2019 06:38

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05055

Tgt Ion:106 Resp: 148346  
Ion Ratio Lower Upper  
106 100  
91 224.8 149.4 277.5

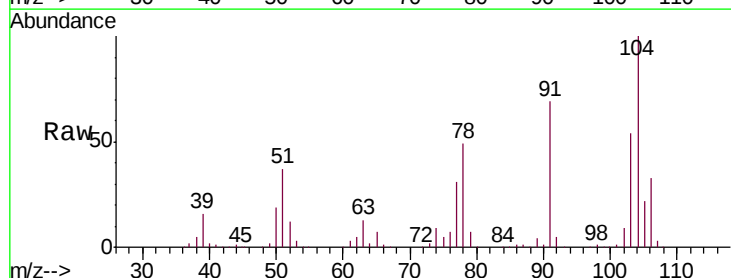


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0

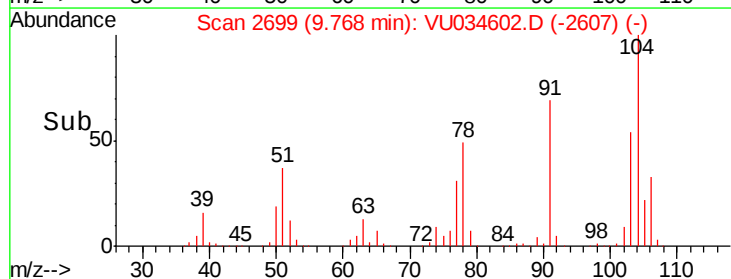
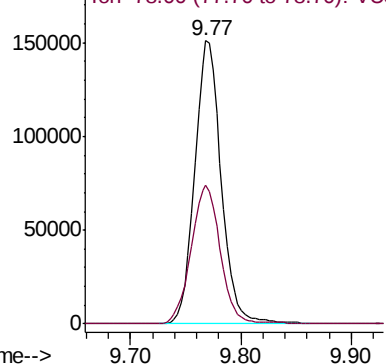


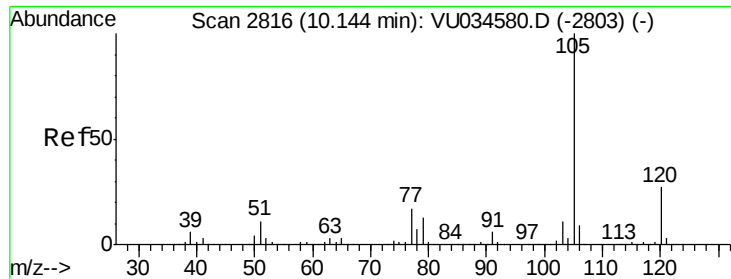
#55  
Styrene  
Concen: 52.928 ug/L  
RT: 9.77 min Scan# 2699  
Delta R.T. -0.00 min  
Lab File: VU034602.D  
Acq: 17 Sep 2019 06:38

Tgt Ion:104 Resp: 251661  
Ion Ratio Lower Upper  
104 100  
78 48.8 32.8 61.0



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





#56

Isopropylbenzene

Concen: 52.846 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05055

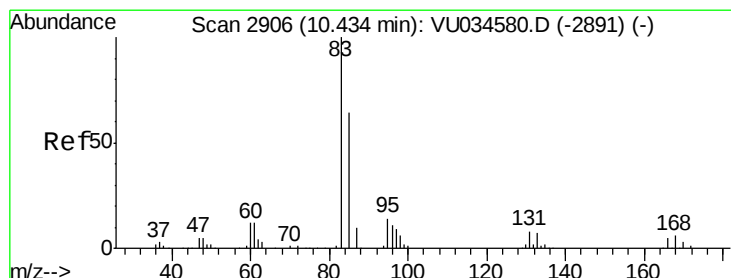
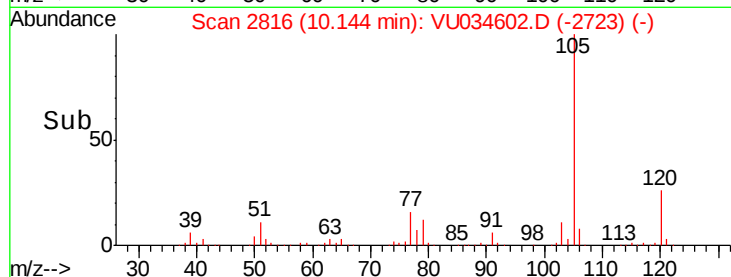
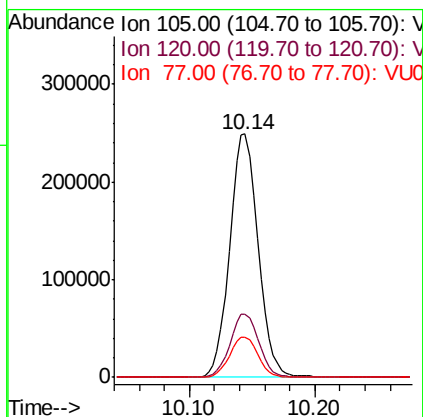
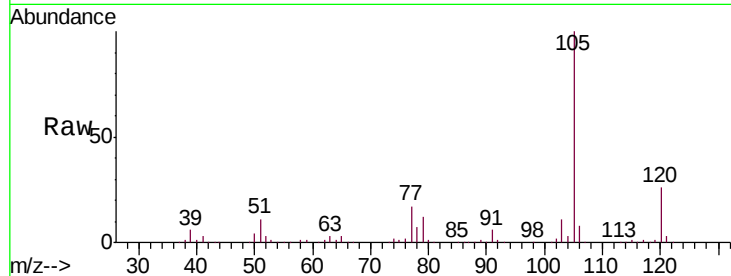
Tgt Ion: 105 Resp: 392642

Ion Ratio Lower Upper

105 100

120 26.3 21.2 31.8

77 16.6 13.5 20.3



#58

1,1,2,2-Tetrachloroethane

Concen: 53.534 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

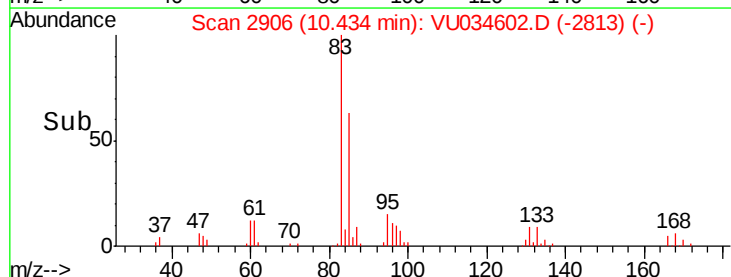
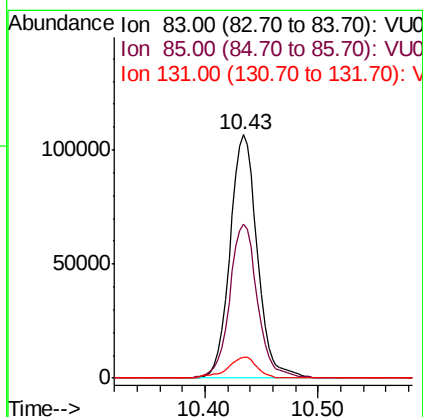
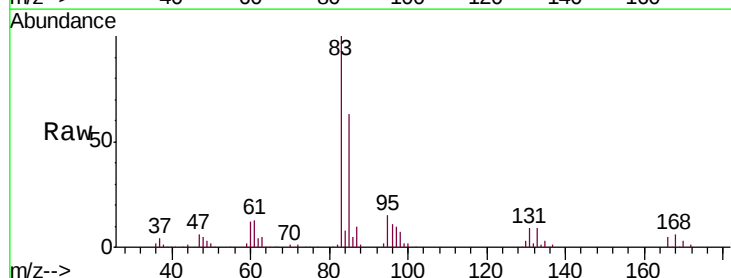
Tgt Ion: 83 Resp: 179013

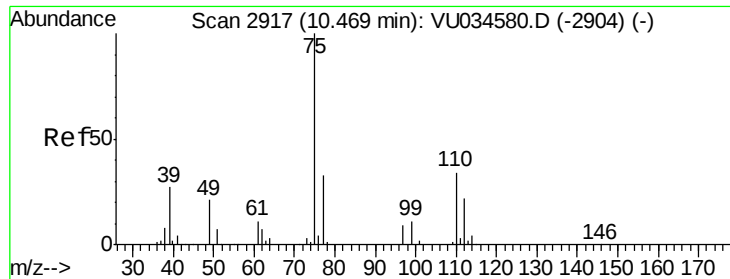
Ion Ratio Lower Upper

83 100

85 63.2 44.5 82.7

131 8.7 6.8 10.2





#59

1,2,3-Trichloropropane

Concen: 53.983 ug/L

RT: 10.47 min Scan# 2917

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

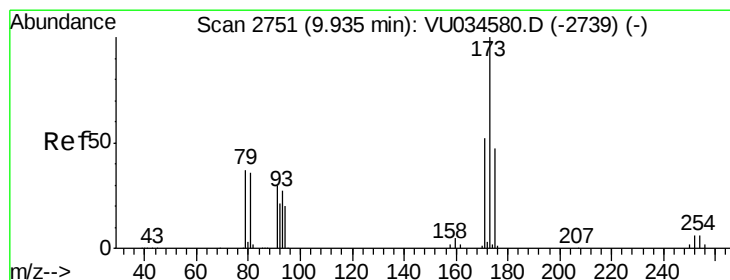
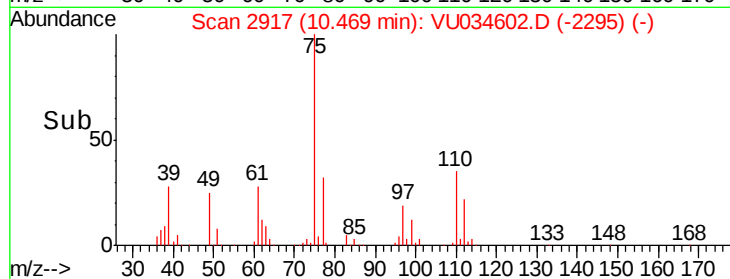
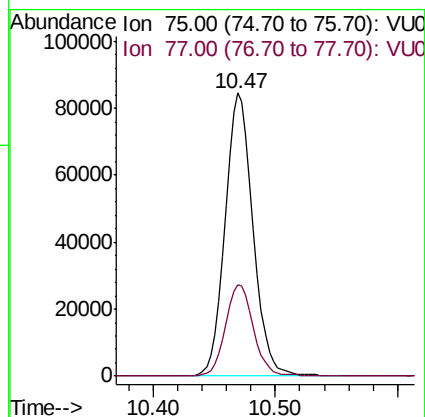
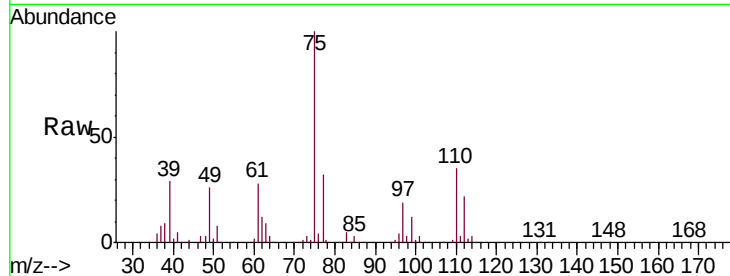
VSTD05055

Tgt Ion: 75 Resp: 135870

Ion Ratio Lower Upper

75 100

77 32.4 26.1 39.1



#61

Bromoform

Concen: 49.444 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

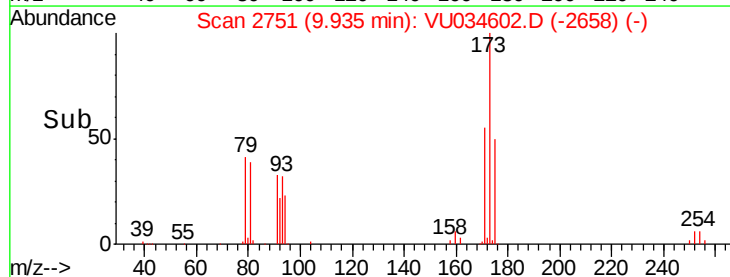
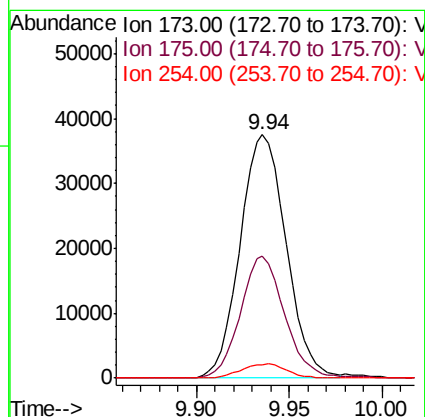
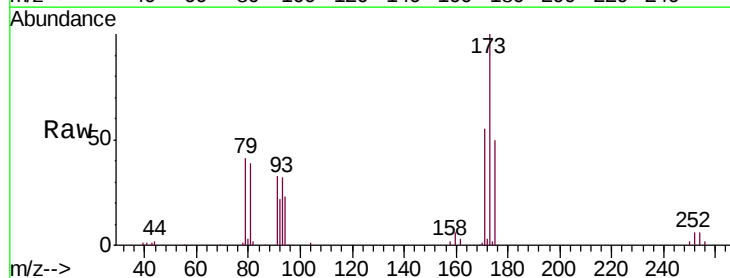
Tgt Ion: 173 Resp: 64677

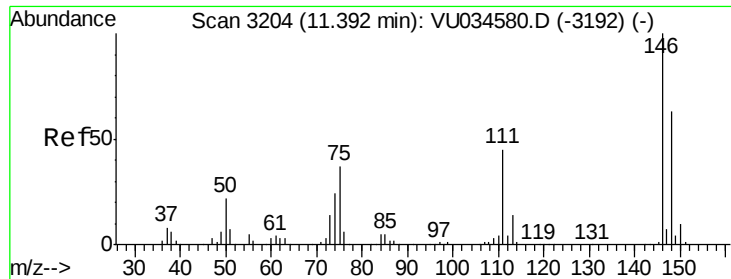
Ion Ratio Lower Upper

173 100

175 48.0 37.6 56.4

254 5.6 4.6 7.0





#62

1,3-Dichlorobenzene

Concen: 53.083 ug/L

RT: 11.39 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05055

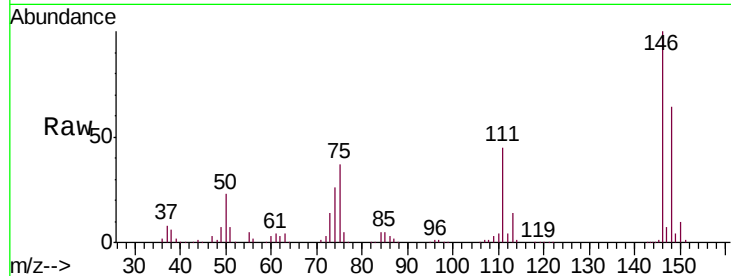
Tgt Ion:146 Resp: 163058

Ion Ratio Lower Upper

146 100

111 44.8 30.2 56.0

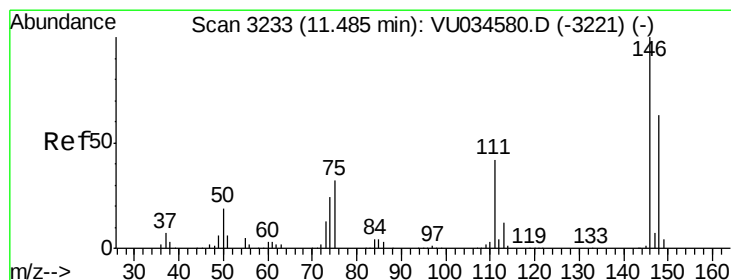
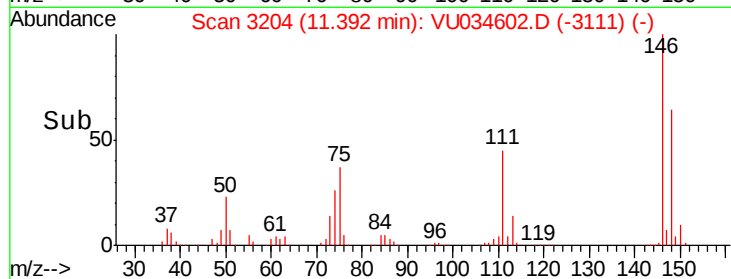
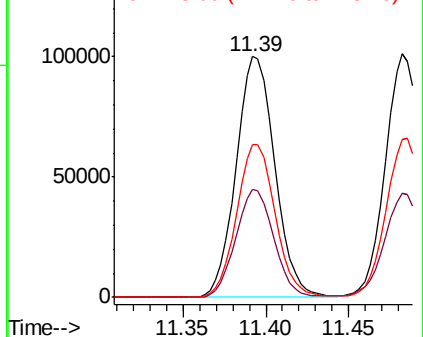
148 63.6 45.5 84.5



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



#63

1,4-Dichlorobenzene

Concen: 51.996 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. -0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

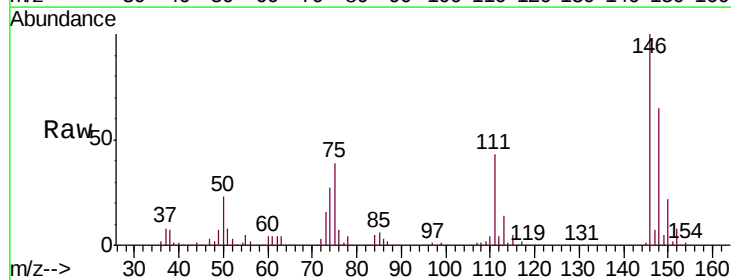
Tgt Ion:146 Resp: 161279

Ion Ratio Lower Upper

146 100

111 42.7 27.6 51.2

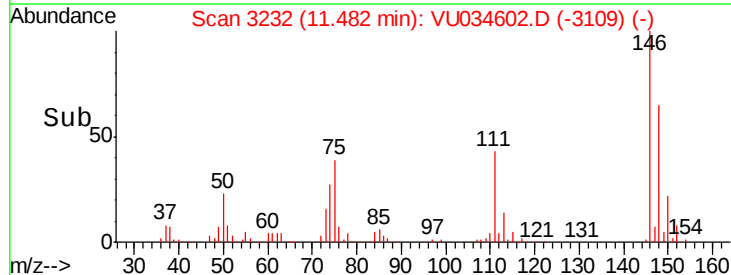
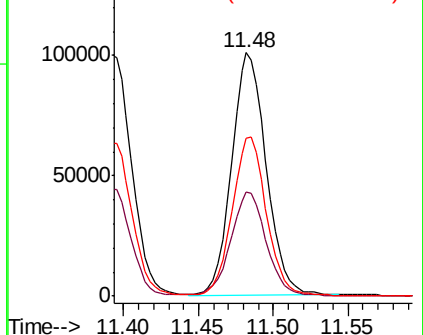
148 65.1 44.0 81.6

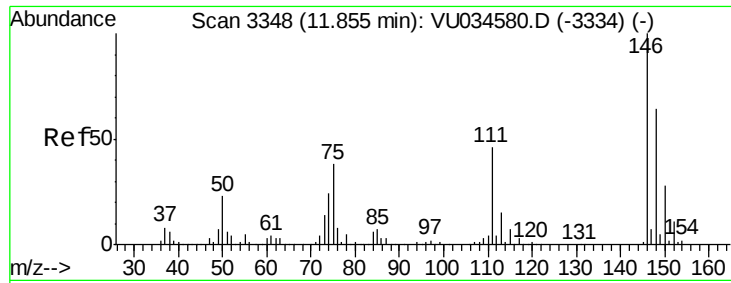


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

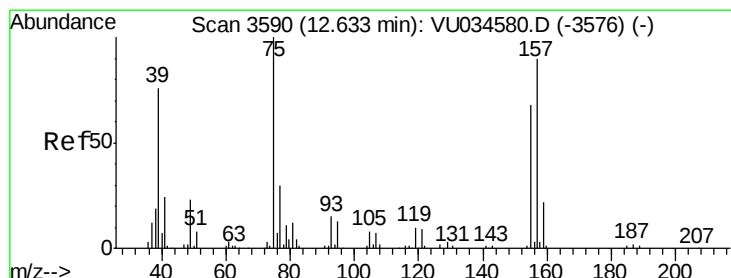
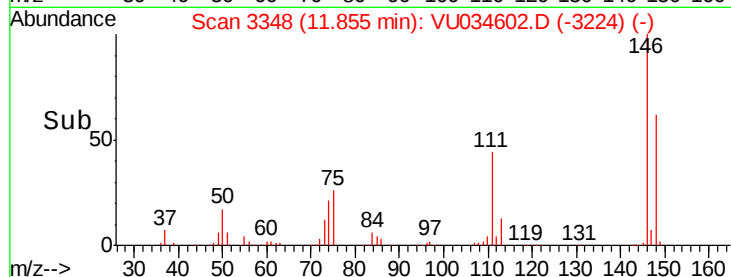
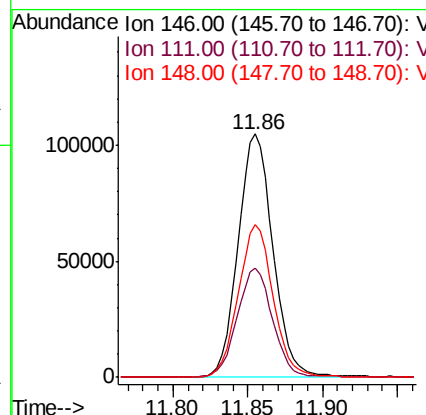
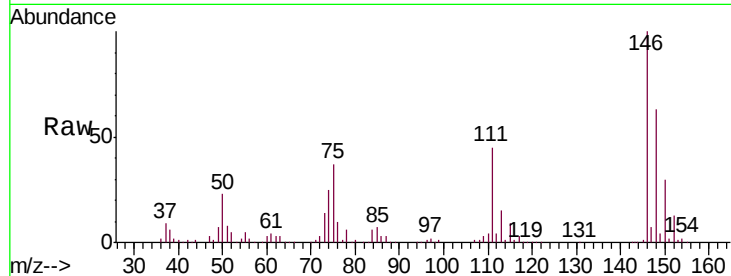




#65  
 1,2-Dichlorobenzene  
 Concen: 54.841 ug/L  
 RT: 11.86 min Scan# 3348  
 Delta R.T. 0.00 min  
 Lab File: VU034602.D  
 Acq: 17 Sep 2019 06:38

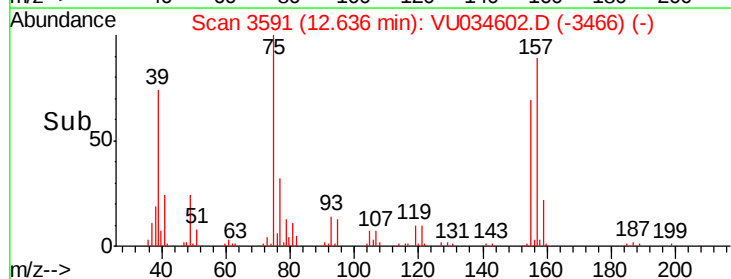
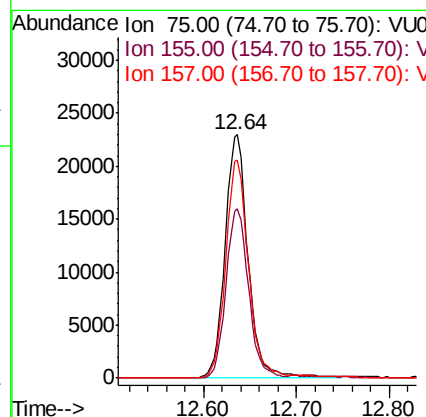
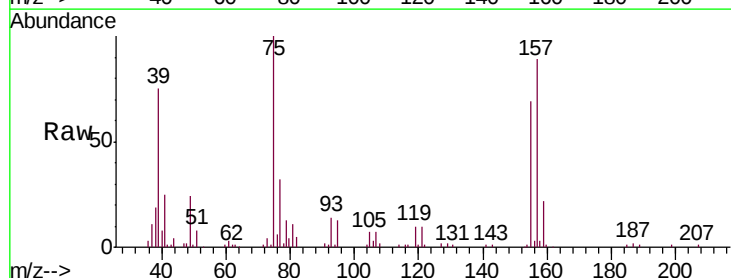
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05055

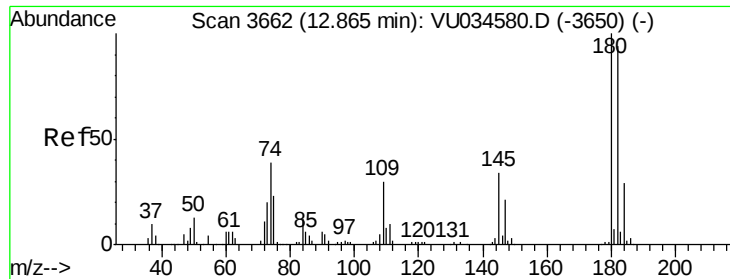
Tgt Ion: 146 Resp: 169925  
 Ion Ratio Lower Upper  
 146 100  
 111 44.8 34.5 51.7  
 148 62.5 50.7 76.1



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 56.612 ug/L  
 RT: 12.64 min Scan# 3591  
 Delta R.T. 0.00 min  
 Lab File: VU034602.D  
 Acq: 17 Sep 2019 06:38

Tgt Ion: 75 Resp: 39741  
 Ion Ratio Lower Upper  
 75 100  
 155 69.5 61.8 92.6  
 157 89.3 80.5 120.7

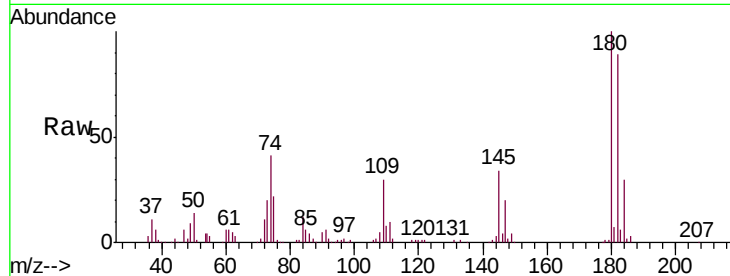




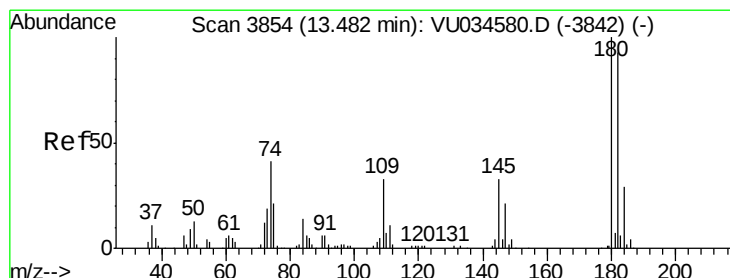
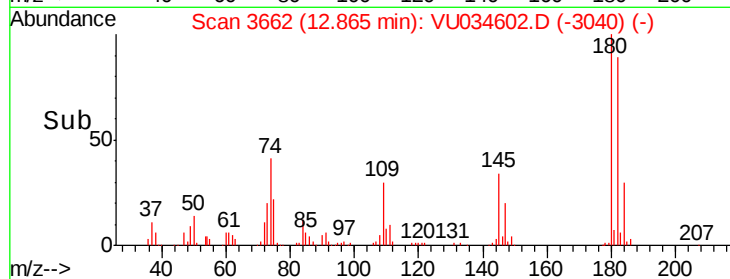
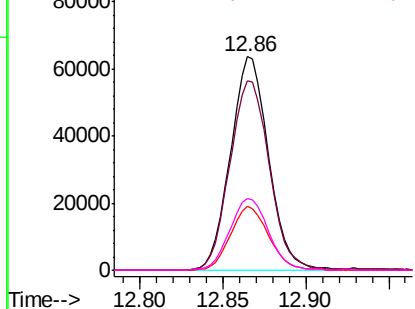
#67  
 1,3,5-Trichlorobenzene  
 Concen: 50.941 ug/L  
 RT: 12.86 min Scan# 3662  
 Delta R.T. 0.00 min  
 Lab File: VU034602.D  
 Acq: 17 Sep 2019 06:38

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05055

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 101988 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 92.4  | 77.9  | 116.9  |
| 184      | 29.9  | 24.2  | 36.4   |
| 145      | 34.0  | 25.8  | 38.6   |

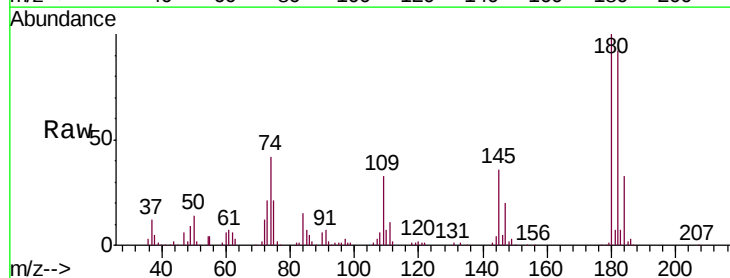


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

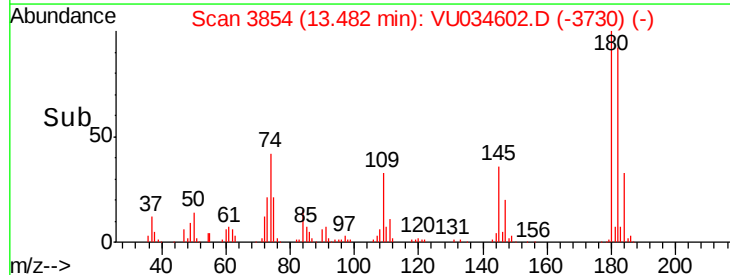
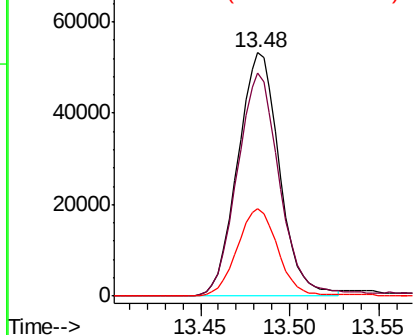


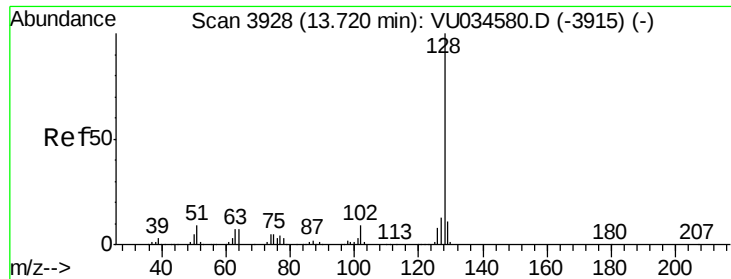
#68  
 1,2,4-trichlorobenzene  
 Concen: 50.672 ug/L  
 RT: 13.48 min Scan# 3854  
 Delta R.T. 0.00 min  
 Lab File: VU034602.D  
 Acq: 17 Sep 2019 06:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 86665 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 93.4  | 75.7  | 113.5 |
| 145      | 34.9  | 25.9  | 38.9  |



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: 55.882 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

Instrument :

MSVOA\_U

ClientSampleId :

VSTD05055

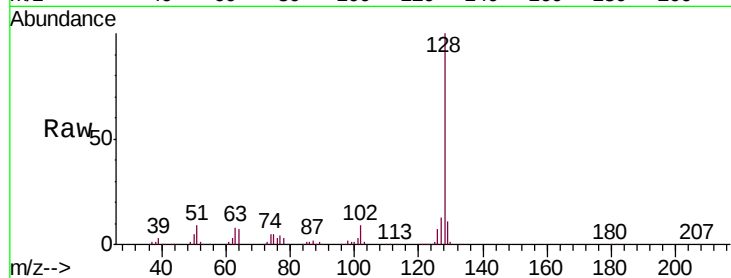
Tgt Ion:128 Resp: 353110

Ion Ratio Lower Upper

128 100

127 13.0 10.0 15.0

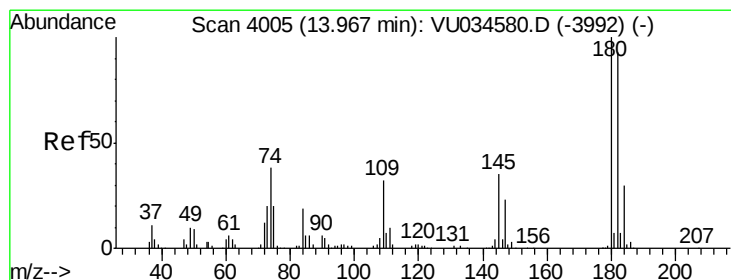
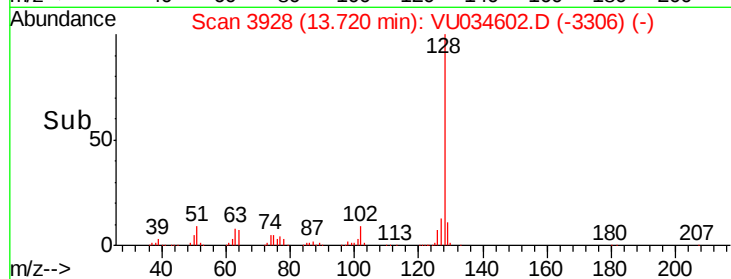
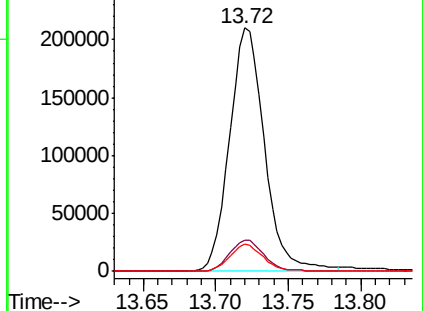
129 10.8 8.6 12.8



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: 50.944 ug/L

RT: 13.96 min Scan# 4004

Delta R.T. -0.00 min

Lab File: VU034602.D

Acq: 17 Sep 2019 06:38

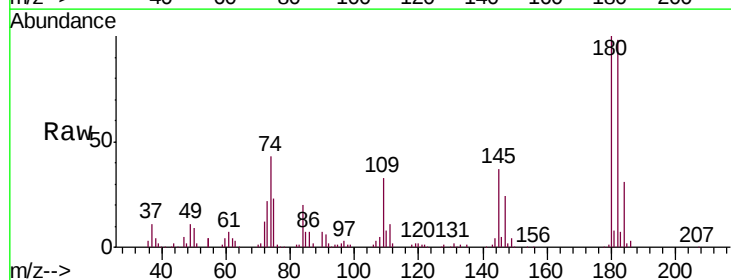
Tgt Ion:180 Resp: 89200

Ion Ratio Lower Upper

180 100

182 96.2 77.1 115.7

145 35.9 27.4 41.0



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

