

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU060319\  
 Data File : VU032394.D  
 Acq On : 03 Jun 2019 15:35  
 Operator : JC/SP  
 Sample : VSTD01011  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01011

Quant Time: Jun 04 08:33:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 04 08:29:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 111340   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 105484   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 52818    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.39  | 65  | 105269 | 10.63  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.68  | 69  | 135131 | 11.05  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.27  | 63  | 251446 | 10.49  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 4.19  | 46  | 260758 | 107.58 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.64  | 84  | 165278 | 10.59  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.31  | 65  | 89766  | 10.55  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.33  | 84  | 311828 | 10.94  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.32  | 67  | 100674 | 10.79  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.56  | 98  | 295099 | 10.95  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.85  | 79  | 48331  | 10.91  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.31  | 63  | 219058 | 110.37 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43 | 84  | 84395  | 10.82  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.85 | 152 | 106210 | 10.75  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |              | Qvalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 187858  | 10.229 ug/L  | 100    |
| 3) Chloromethane               | 1.32 | 50  | 195166  | 10.391 ug/L  | 99     |
| 5) Vinyl chloride              | 1.40 | 62  | 209726  | 10.433 ug/L  | 100    |
| 6) Bromomethane                | 1.63 | 94  | 151279  | 10.782 ug/L  | 98     |
| 8) Chloroethane                | 1.69 | 64  | 216768  | 11.096 ug/L  | 99     |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 298852  | 10.416 ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 166972  | 10.619 ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 156703  | 10.702 ug/L  | 98     |
| 13) Acetone                    | 2.33 | 43  | 403577  | 105.177 ug/L | 97     |
| 14) Carbon disulfide           | 2.47 | 76  | 514297  | 10.424 ug/L  | 99     |
| 15) Methyl Acetate             | 2.62 | 43  | 93962   | 10.204 ug/L  | 99     |
| 16) Methylene chloride         | 2.69 | 84  | 172538  | 10.305 ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 3.00 | 73  | 494529  | 10.343 ug/L  | 100    |
| 18) trans-1,2-Dichloroethene   | 2.97 | 96  | 169841  | 10.184 ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 3.43 | 63  | 289109  | 10.420 ug/L  | 98     |
| 21) 2-Butanone                 | 4.28 | 43  | 539613  | 105.405 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 165052  | 10.441 ug/L  | 98     |
| 23) Bromochloromethane         | 4.54 | 128 | 68831   | 10.532 ug/L  | 99     |
| 25) Chloroform                 | 4.67 | 83  | 294126  | 10.260 ug/L  | 99     |
| 27) 1,2-Dichloroethane         | 5.40 | 62  | 207338  | 10.406 ug/L  | 99     |
| 29) 1,1,1-Trichloroethane      | 4.90 | 97  | 263721  | 10.759 ug/L  | 99     |
| 30) Cyclohexane                | 4.98 | 56  | 280246  | 10.448 ug/L  | 98     |
| 31) Carbon tetrachloride       | 5.13 | 117 | 235415  | 10.845 ug/L  | 99     |
| 33) Benzene                    | 5.38 | 78  | 634660  | 10.685 ug/L  | 100    |
| 34) Trichloroethene            | 6.18 | 95  | 170922  | 10.653 ug/L  | 99     |
| 35) Methylcyclohexane          | 6.40 | 83  | 285979  | 10.564 ug/L  | 99     |
| 37) 1,2-Dichloropropane        | 6.43 | 63  | 172181  | 10.731 ug/L  | 100    |
| 38) Bromodichloromethane       | 6.75 | 83  | 228451  | 10.742 ug/L  | 99     |
| 39) cis-1,3-Dichloropropene    | 7.26 | 75  | 279780  | 10.616 ug/L  | 97     |
| 40) 4-Methyl-2-pentanone       | 7.46 | 43  | 1310257 | 107.529 ug/L | 100    |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU060319\  
 Data File : VU032394.D  
 Acq On : 03 Jun 2019 15:35  
 Operator : JC/SP  
 Sample : VSTD01011  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

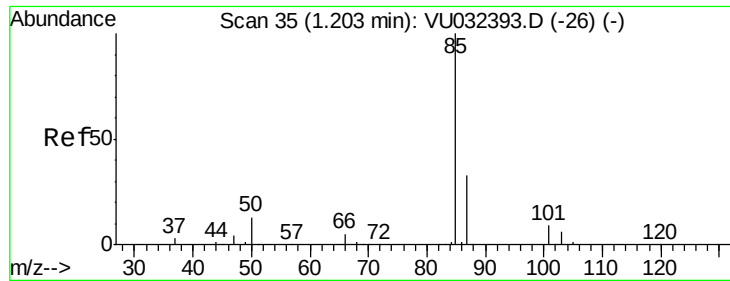
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01011

Quant Time: Jun 04 08:33:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 04 08:29:23 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.63  | 91   | 688466   | 10.599  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 7.87  | 75   | 225621   | 10.569  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.06  | 97   | 119168   | 10.515  | ug/L  | 97       |
| 47) Tetrachloroethene          | 8.22  | 164  | 121699   | 10.877  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.36  | 43   | 959652   | 107.687 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.47  | 129  | 152857   | 10.744  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 121521   | 10.859  | ug/L  | 99       |
| 51) Chlorobenzene              | 9.11  | 112  | 428957   | 10.762  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.24  | 91   | 788610   | 10.689  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.37  | 106  | 290010   | 10.597  | ug/L  | 95       |
| 54) o-Xylene                   | 9.77  | 106  | 289641   | 10.709  | ug/L  | 98       |
| 55) Styrene                    | 9.79  | 104  | 490963   | 10.799  | ug/L  | 100      |
| 56) Isopropylbenzene           | 10.16 | 105  | 762008   | 10.694  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 161615   | 10.819  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 113100   | 10.675  | ug/L  | 99       |
| 61) Bromoform                  | 9.95  | 173  | 89852    | 10.569  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146  | 331681   | 10.367  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 331878   | 10.349  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146  | 316508   | 10.414  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 30671    | 10.250  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 262720   | 10.611  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 232720   | 10.822  | ug/L  | 99       |
| 69) Naphthalene                | 13.74 | 128  | 466859   | 11.036  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 216287   | 10.720  | ug/L  | 100      |

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





#2

Dichlorodifluoromethane

Concen: 10.229 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Instrument :

MSVOA\_U

ClientSampleId :

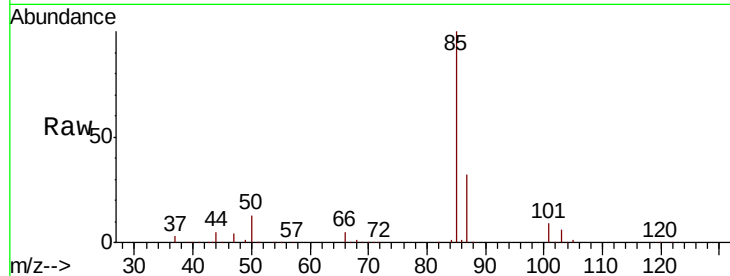
VSTD01011

Tgt Ion: 85 Resp: 187858

Ion Ratio Lower Upper

85 100

87 32.3 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU032393.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU032393.D (-26) (-)

1.20

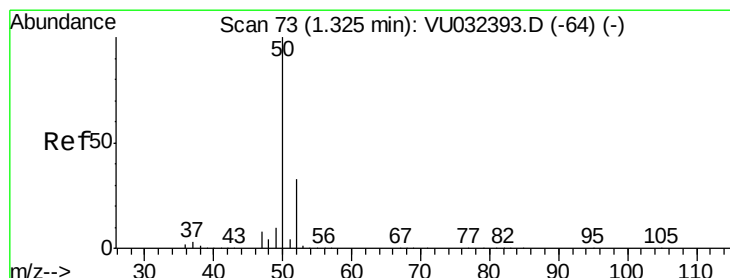
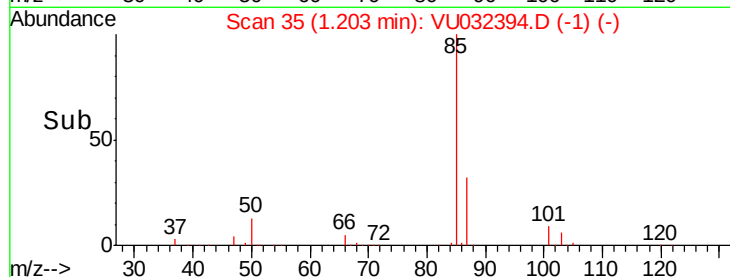
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 10.391 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU032394.D

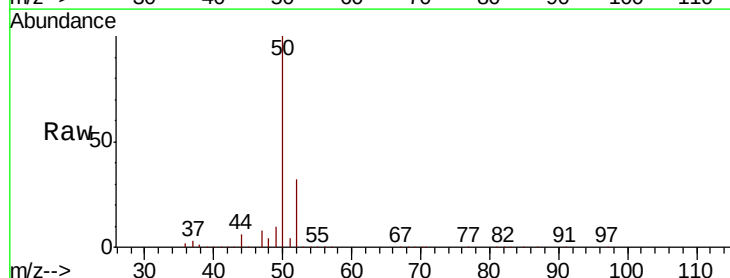
Acq: 03 Jun 2019 15:35

Tgt Ion: 50 Resp: 195166

Ion Ratio Lower Upper

50 100

52 32.2 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VU032393.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU032393.D (-64) (-)

1.32

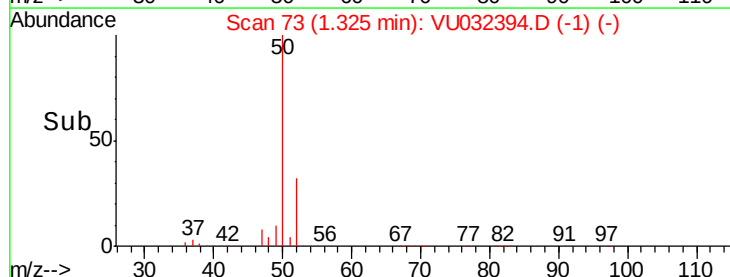
150000

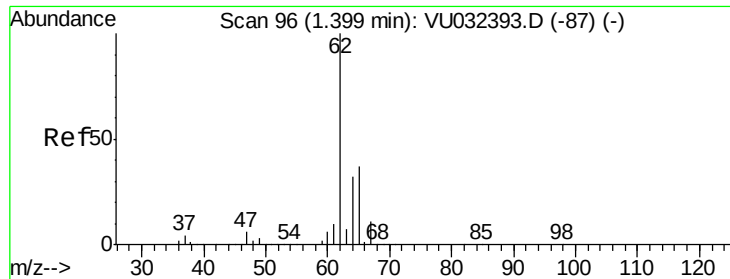
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 10.433 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Instrument :

MSVOA\_U

ClientSampleId :

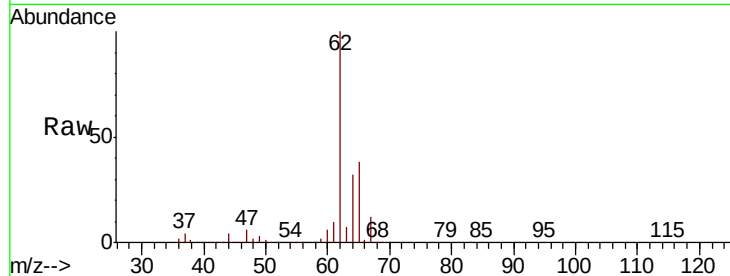
VSTD01011

Tgt Ion: 62 Resp: 209726

Ion Ratio Lower Upper

62 100

64 31.7 22.3 41.3



Abundance Ion 62.00 (61.70 to 62.70): VU032393.D (-87) (-)

Ion 64.10 (63.80 to 64.80): VU032394.D (-3) (-)

1.40

200000

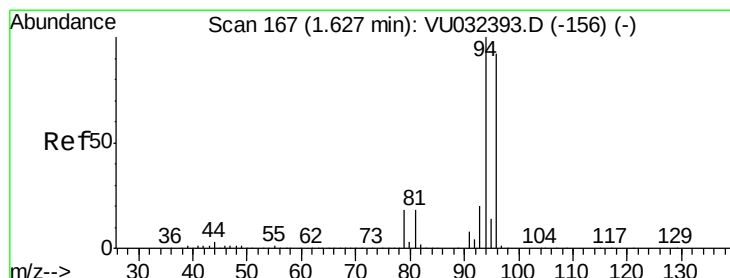
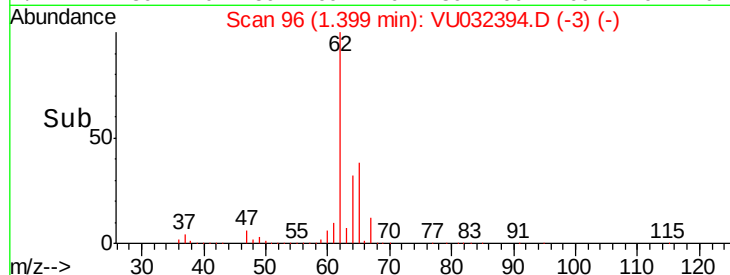
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 10.782 ug/L

RT: 1.63 min Scan# 167

Delta R.T. -0.00 min

Lab File: VU032394.D

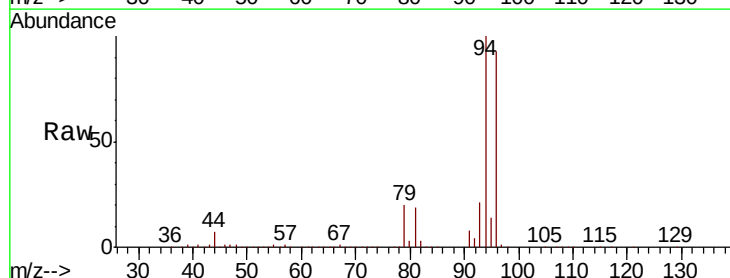
Acq: 03 Jun 2019 15:35

Tgt Ion: 94 Resp: 151279

Ion Ratio Lower Upper

94 100

96 93.4 64.2 119.2



Abundance Ion 94.00 (93.70 to 94.70): VU032393.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU032394.D (-74) (-)

1.63

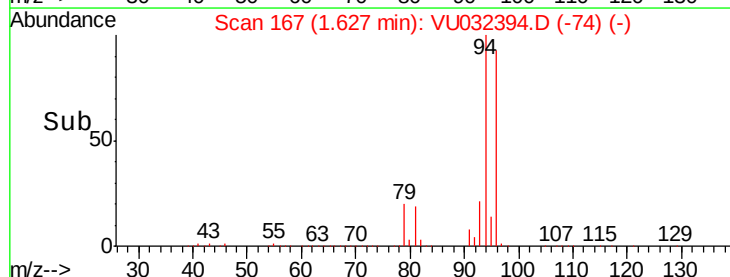
150000

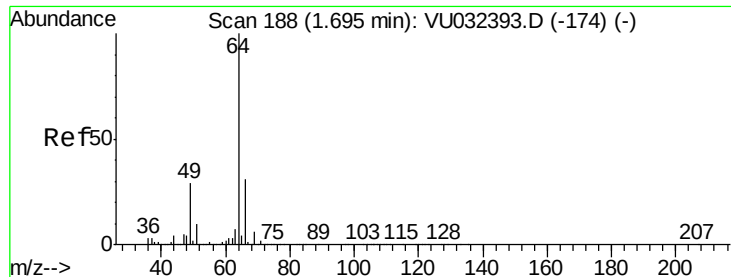
100000

50000

0

Time-->





#8

Chloroethane

Concen: 11.096 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Instrument :

MSVOA\_U

ClientSampleId :

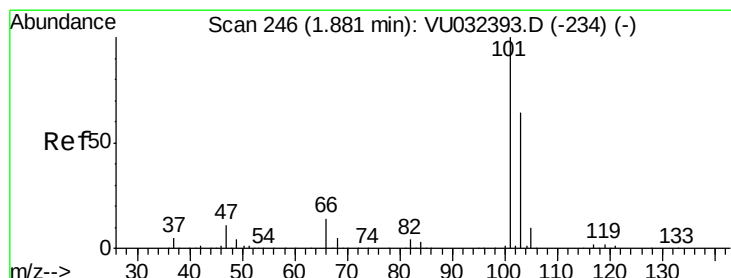
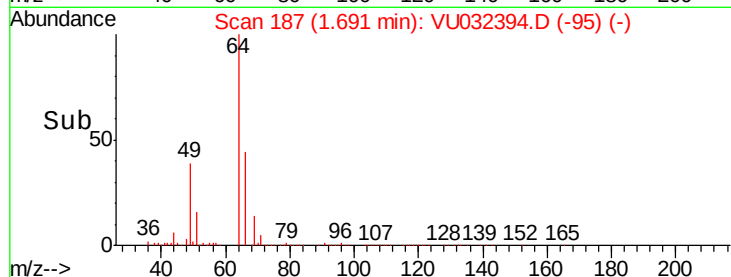
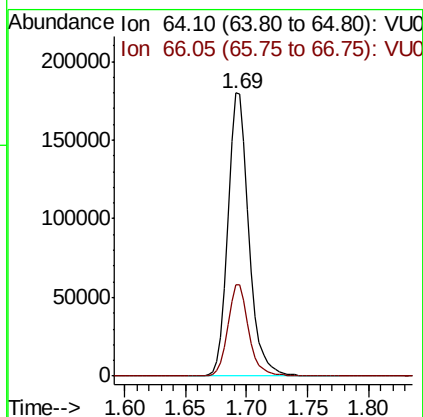
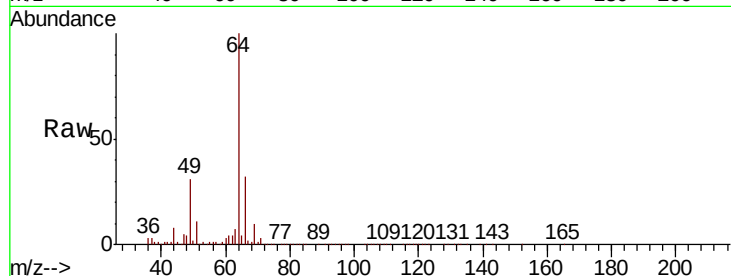
VSTD01011

Tgt Ion: 64 Resp: 216768

Ion Ratio Lower Upper

64 100

66 32.2 22.1 41.1



#9

Trichlorofluoromethane

Concen: 10.416 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU032394.D

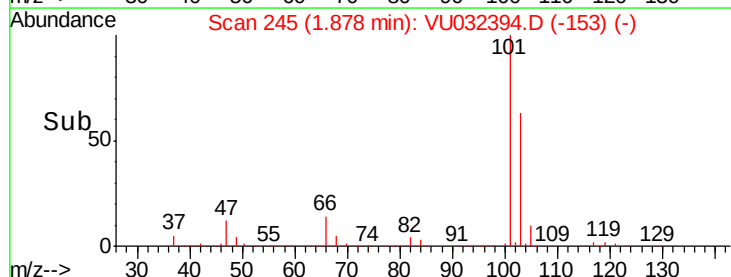
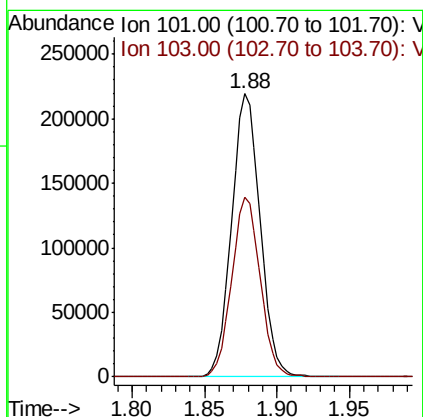
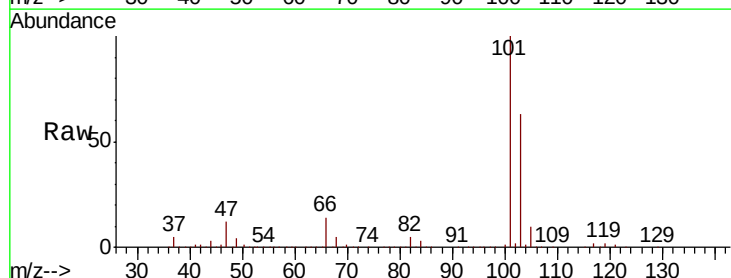
Acq: 03 Jun 2019 15:35

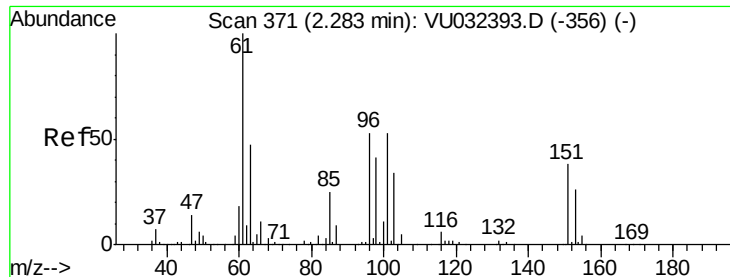
Tgt Ion: 101 Resp: 298852

Ion Ratio Lower Upper

101 100

103 63.5 51.3 76.9





#10

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

Concen: 10.619 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01011

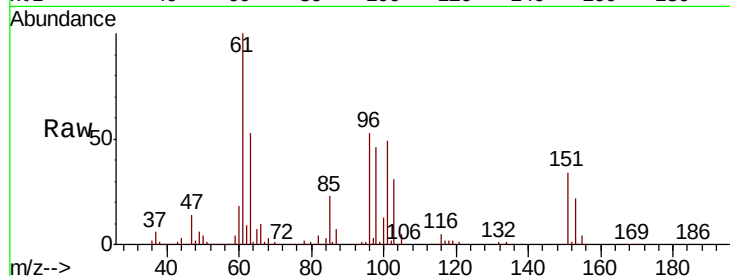
Tgt Ion:101 Resp: 166972

Ion Ratio Lower Upper

101 100

85 47.2 38.0 57.0

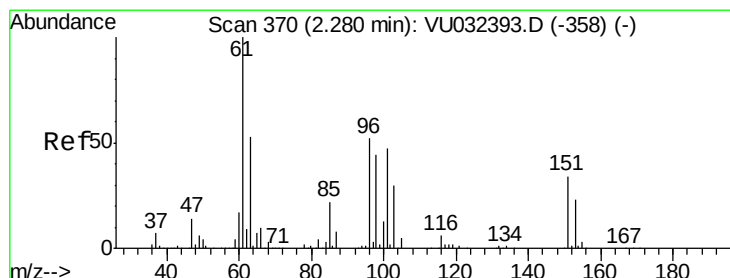
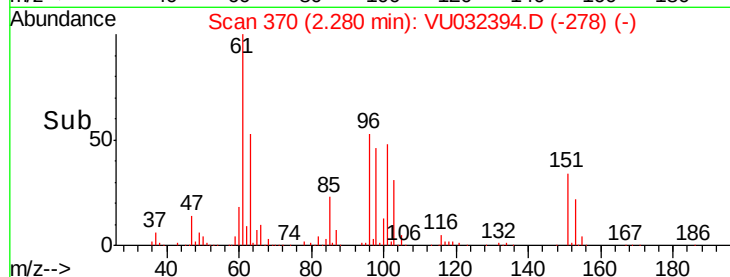
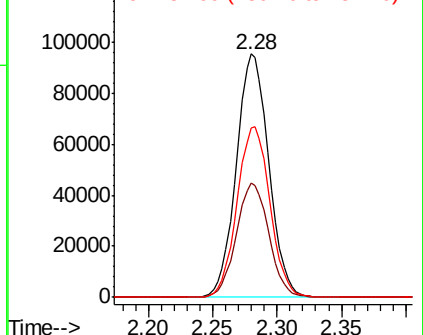
151 71.3 58.1 87.1



Abundance Ion 101.00 (100.70 to 101.70): VU032393.D (-356) (-)

Ion 85.00 (84.70 to 85.70): VU032393.D (-356) (-)

Ion 151.00 (150.70 to 151.70): VU032393.D (-356) (-)



#12

1,1-Dichloroethene

Concen: 10.702 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

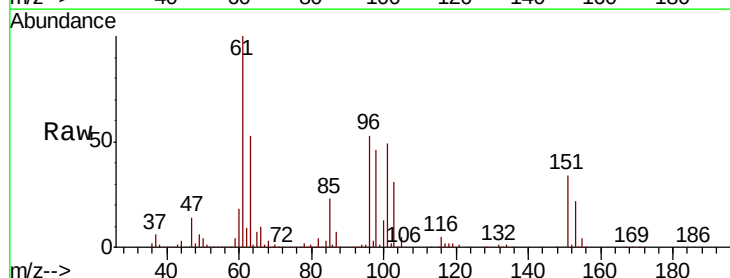
Tgt Ion: 96 Resp: 156703

Ion Ratio Lower Upper

96 100

61 188.8 133.6 248.0

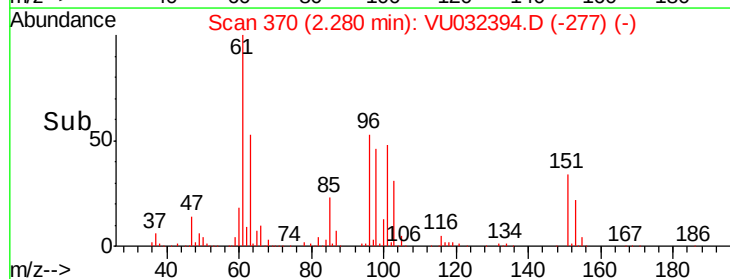
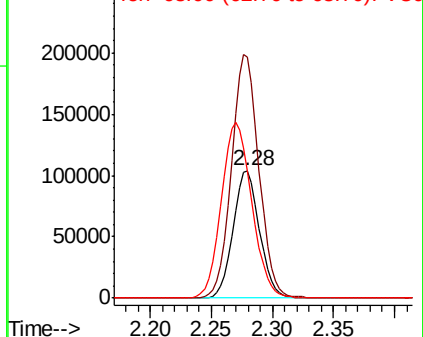
63 99.5 72.4 134.4

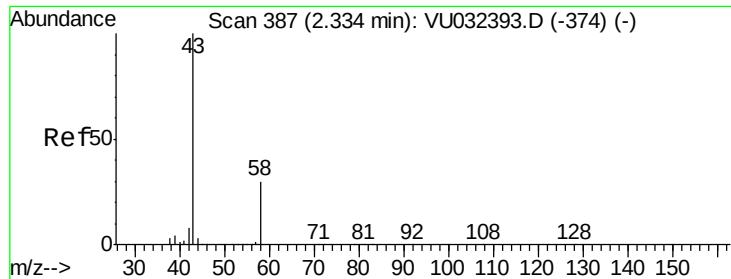


Abundance Ion 96.00 (95.70 to 96.70): VU032393.D (-358) (-)

Ion 61.05 (60.75 to 61.75): VU032393.D (-358) (-)

Ion 63.00 (62.70 to 63.70): VU032393.D (-358) (-)





#13

Acetone

Concen: 105.177 ug/L

RT: 2.33 min Scan# 387

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Instrument :

MSVOA\_U

ClientSampleId :

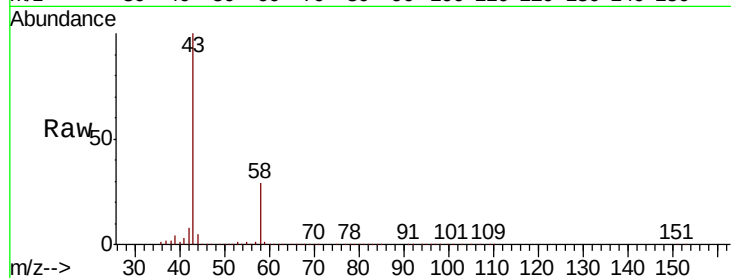
VSTD01011

Tgt Ion: 43 Resp: 403577

Ion Ratio Lower Upper

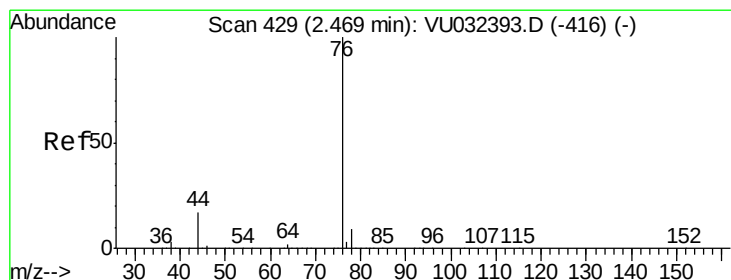
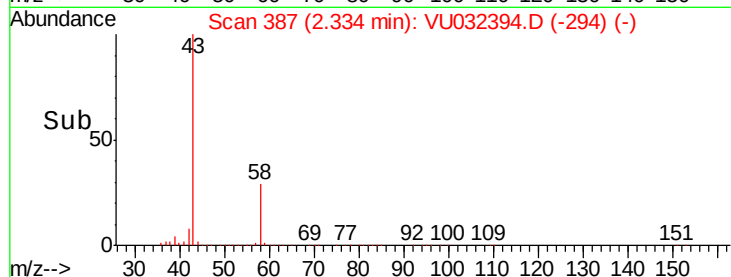
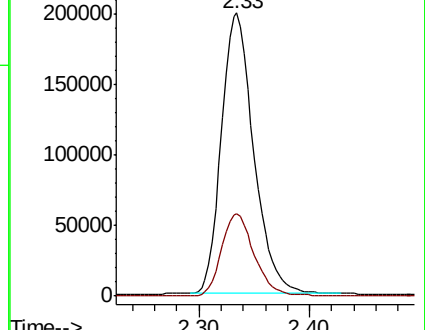
43 100

58 29.2 0.0 62.2



Abundance Ion 43.05 (42.75 to 43.75): VU032393.D (-374) (-)

Ion 58.05 (57.75 to 58.75): VU032393.D (-374) (-)



#14

Carbon disulfide

Concen: 10.424 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU032394.D

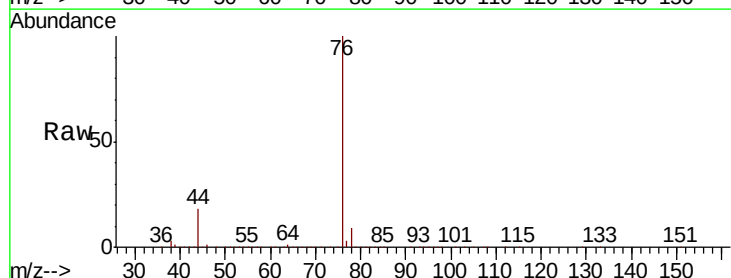
Acq: 03 Jun 2019 15:35

Tgt Ion: 76 Resp: 514297

Ion Ratio Lower Upper

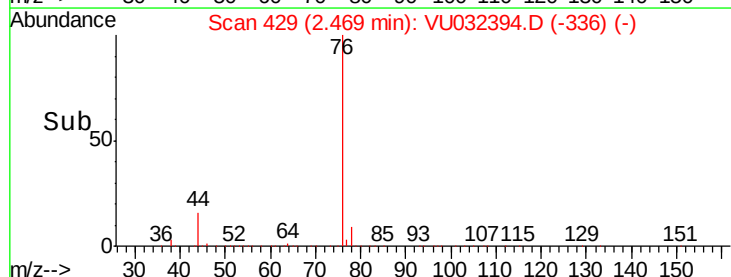
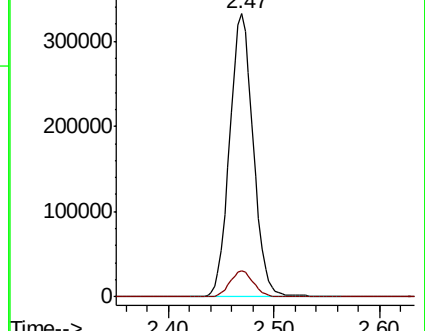
76 100

78 9.2 7.6 11.4

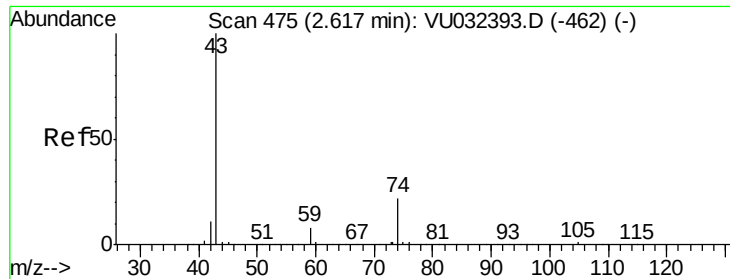


Abundance Ion 76.05 (75.75 to 76.75): VU032393.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU032393.D (-416) (-)



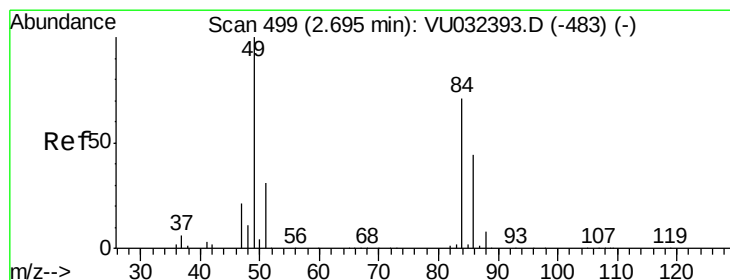
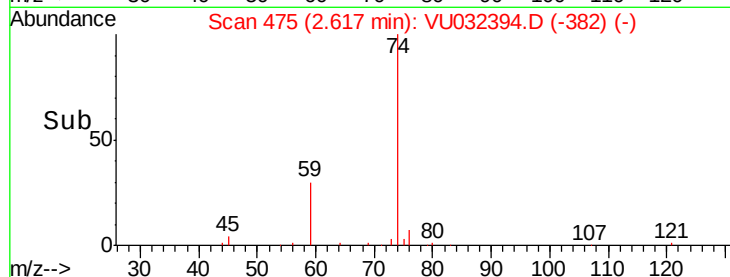
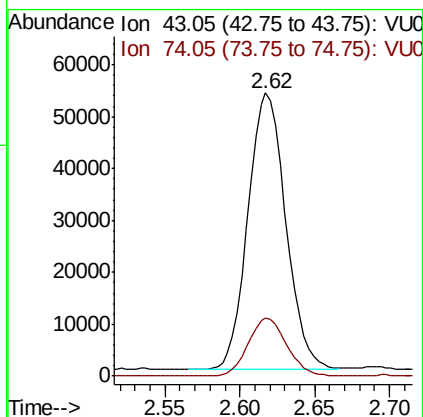
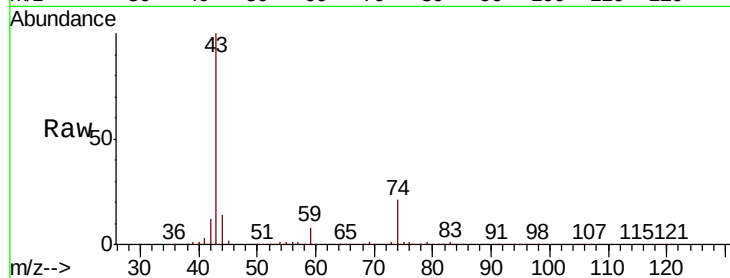




#15  
Methyl Acetate  
Concen: 10.204 ug/L  
RT: 2.62 min Scan# 475  
Delta R.T. -0.00 min  
Lab File: VU032394.D  
Acq: 03 Jun 2019 15:35

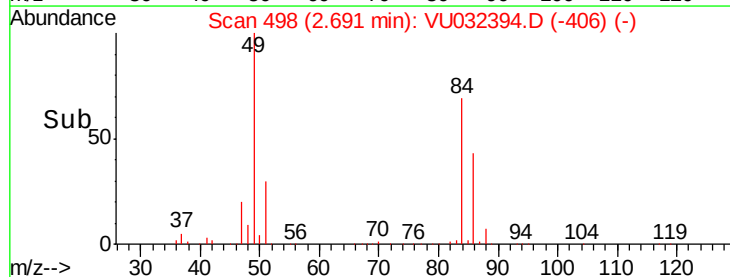
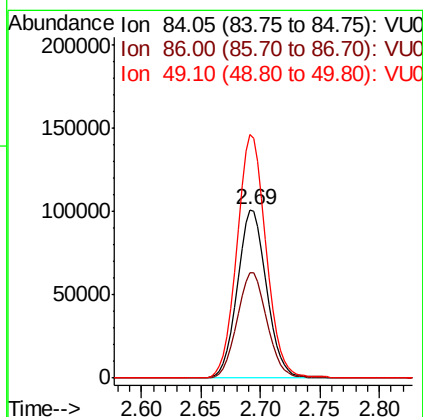
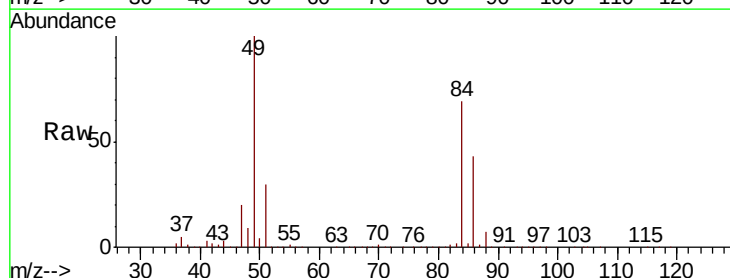
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01011

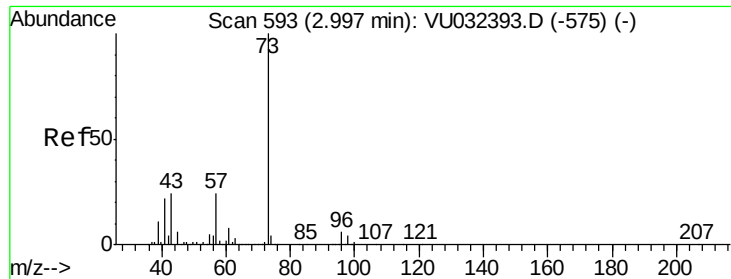
Tgt Ion: 43 Resp: 93962  
Ion Ratio Lower Upper  
43 100  
74 21.6 17.7 26.5



#16  
Methylene chloride  
Concen: 10.305 ug/L  
RT: 2.69 min Scan# 498  
Delta R.T. -0.00 min  
Lab File: VU032394.D  
Acq: 03 Jun 2019 15:35

Tgt Ion: 84 Resp: 172538  
Ion Ratio Lower Upper  
84 100  
86 62.2 43.8 81.4  
49 144.3 98.8 183.6





#17

Methyl tert-butyl Ether

Concen: 10.343 ug/L

RT: 3.00 min Scan# 594

Delta R.T. 0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01011

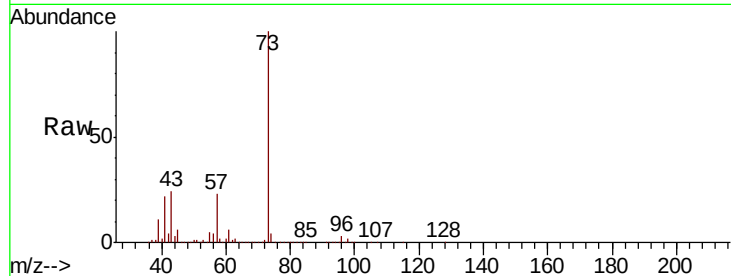
Tgt Ion: 73 Resp: 494529

Ion Ratio Lower Upper

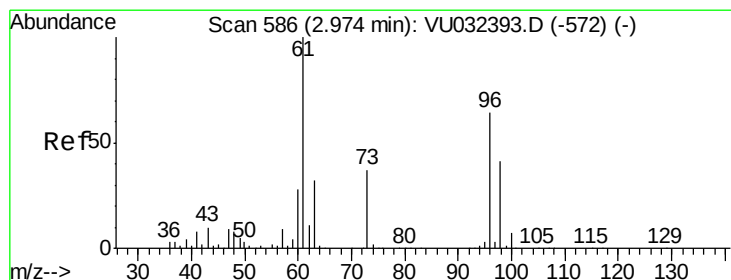
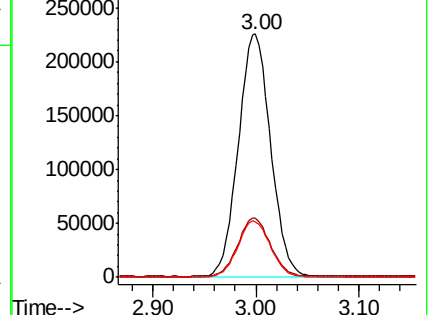
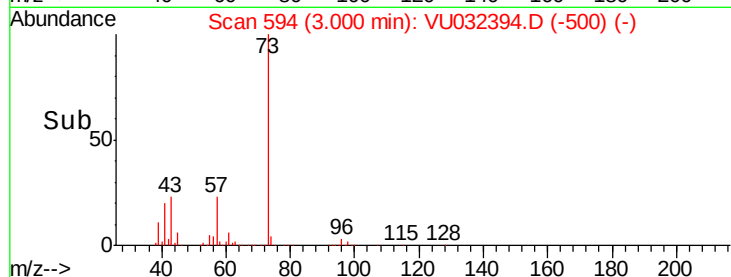
73 100

43 23.9 19.0 28.4

57 23.1 18.6 28.0



Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0



#18

trans-1,2-Dichloroethene

Concen: 10.184 ug/L

RT: 2.97 min Scan# 585

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

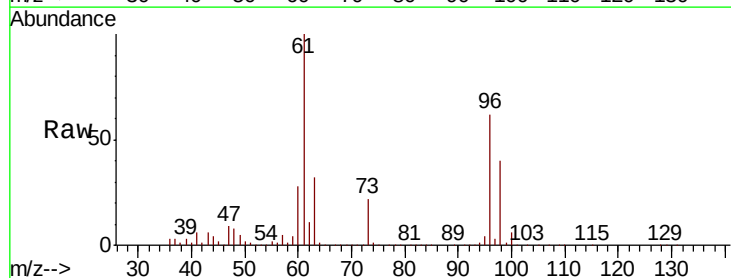
Tgt Ion: 96 Resp: 169841

Ion Ratio Lower Upper

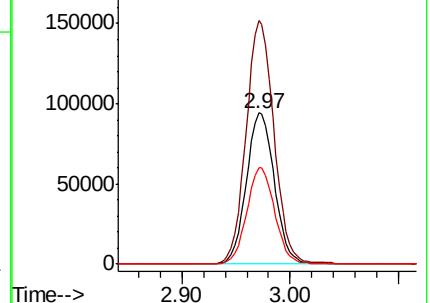
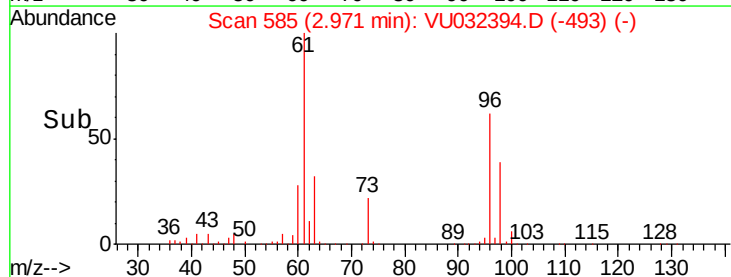
96 100

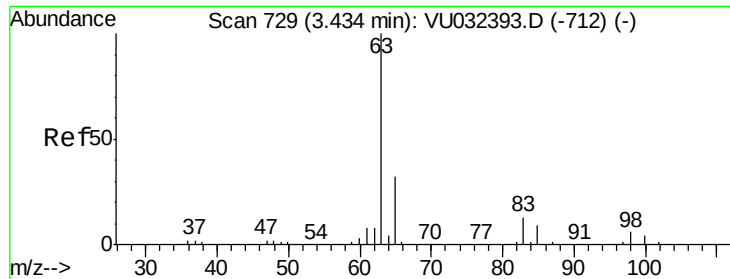
61 161.1 109.1 202.7

98 63.7 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 97.95 (97.65 to 98.65): VU0

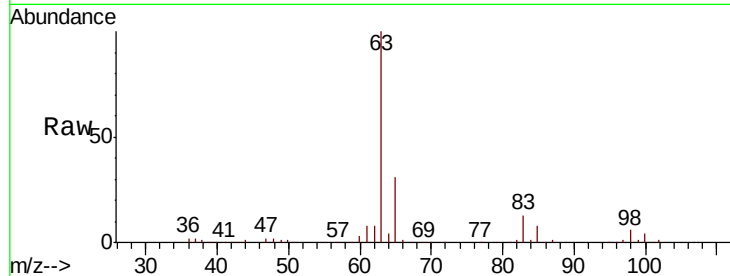




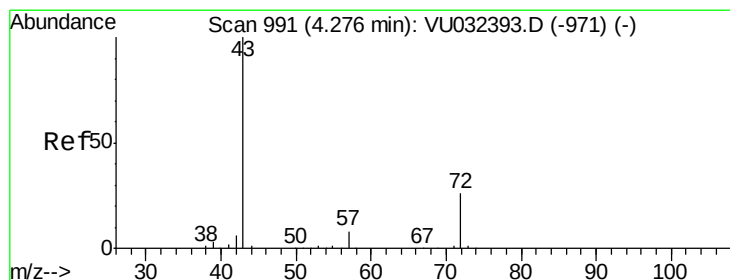
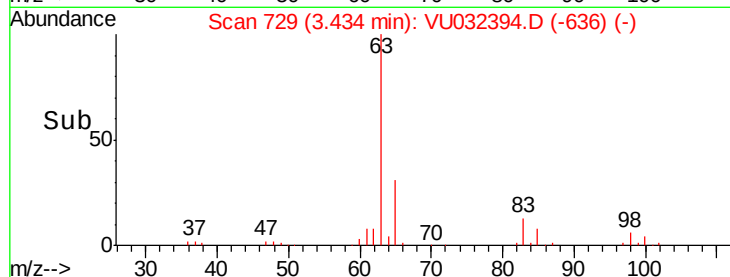
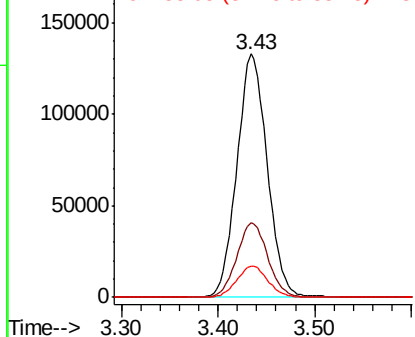
#19  
 1,1-Dichloroethane  
 Concen: 10.420 ug/L  
 RT: 3.43 min Scan# 729  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VSTD01011

Tgt Ion: 63 Resp: 289109  
 Ion Ratio Lower Upper  
 63 100  
 65 30.5 22.5 41.7  
 83 12.9 9.0 16.8

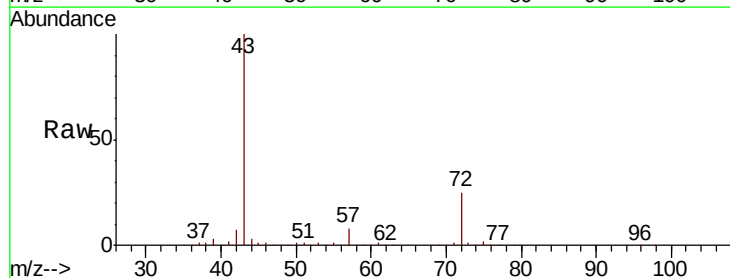


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

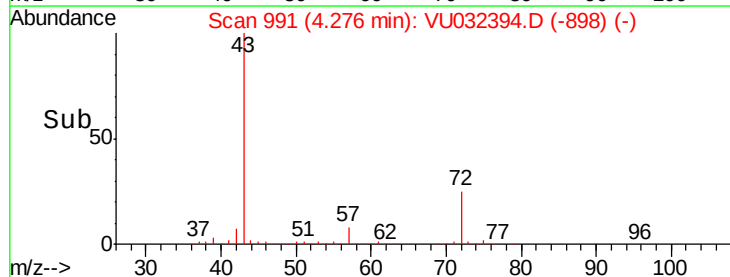
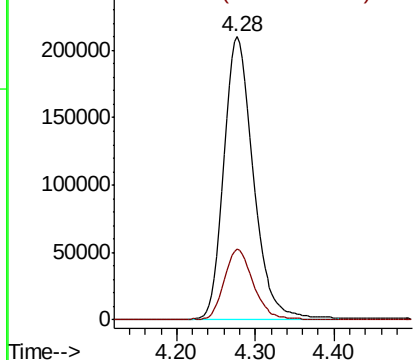


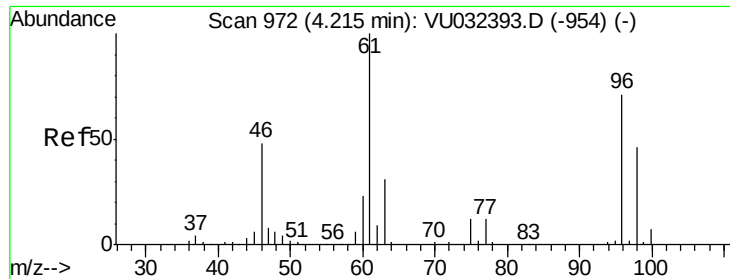
#21  
 2-Butanone  
 Concen: 105.405 ug/L  
 RT: 4.28 min Scan# 991  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

Tgt Ion: 43 Resp: 539613  
 Ion Ratio Lower Upper  
 43 100  
 72 24.5 12.4 37.2



Abundance Ion 43.05 (42.75 to 43.75): VU0  
 Ion 72.10 (71.80 to 72.80): VU0



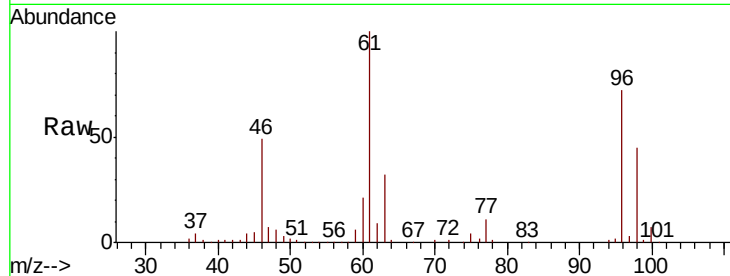


#22

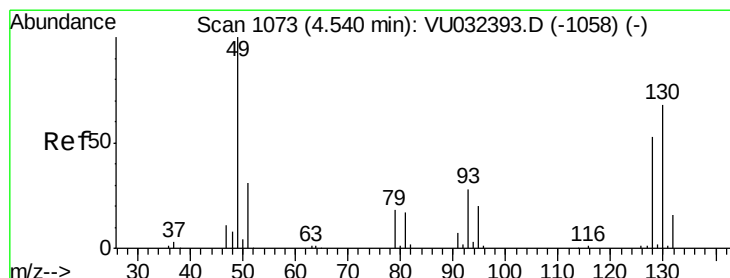
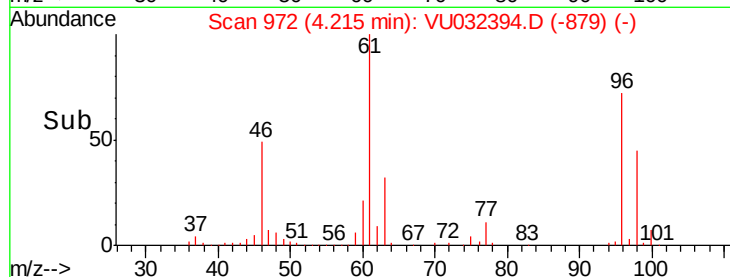
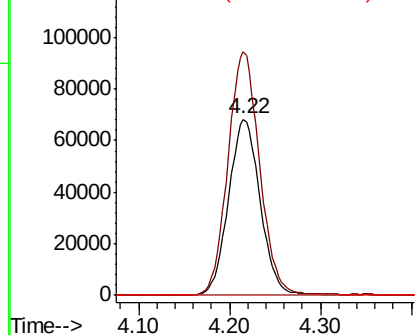
cis-1,2-Dichloroethene  
 Concen: 10.441 ug/L  
 RT: 4.22 min Scan# 972  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01011

Tgt Ion: 96 Resp: 165052  
 Ion Ratio Lower Upper  
 96 100  
 61 138.4 99.0 183.8  
 68 0.0 0.0 0.0



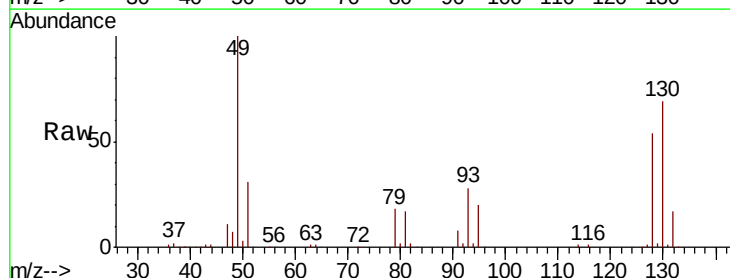
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0



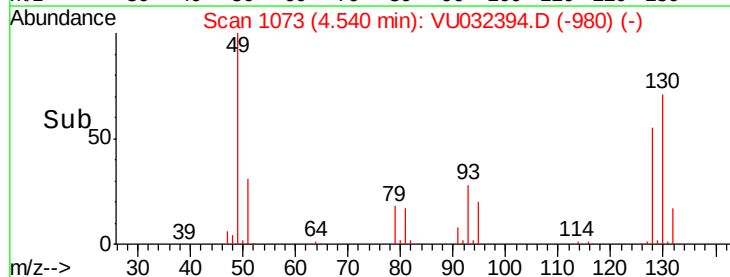
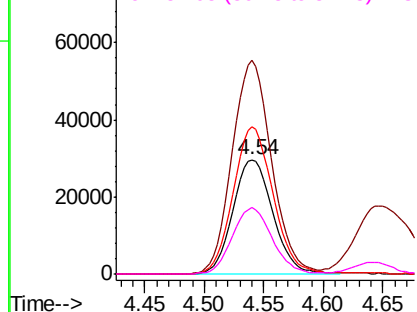
#23

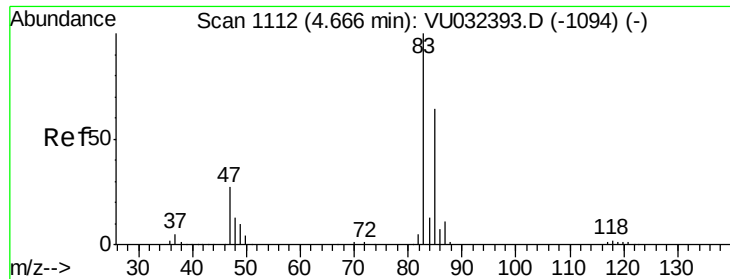
Bromochloromethane  
 Concen: 10.532 ug/L  
 RT: 4.54 min Scan# 1073  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

Tgt Ion: 128 Resp: 68831  
 Ion Ratio Lower Upper  
 128 100  
 49 186.7 131.5 244.3  
 130 129.0 89.7 166.7  
 51 57.9 46.5 69.7



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

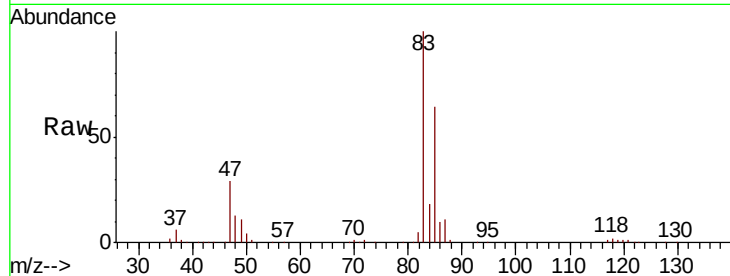




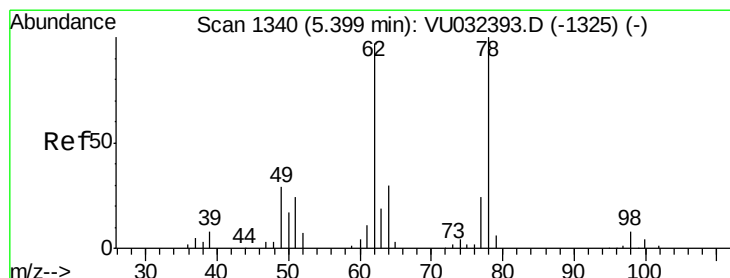
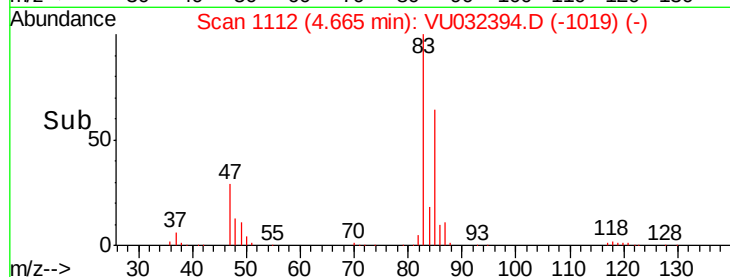
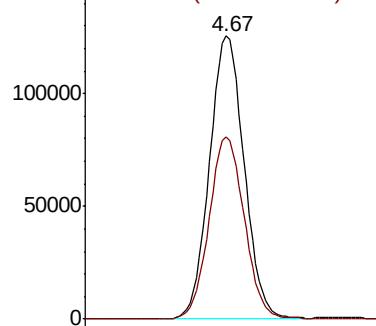
#25  
Chloroform  
Concen: 10.260 ug/L  
RT: 4.67 min Scan# 1112  
Delta R.T. -0.00 min  
Lab File: VU032394.D  
Acq: 03 Jun 2019 15:35

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01011

Tgt Ion: 83 Resp: 294126  
Ion Ratio Lower Upper  
83 100  
85 64.3 45.3 84.1

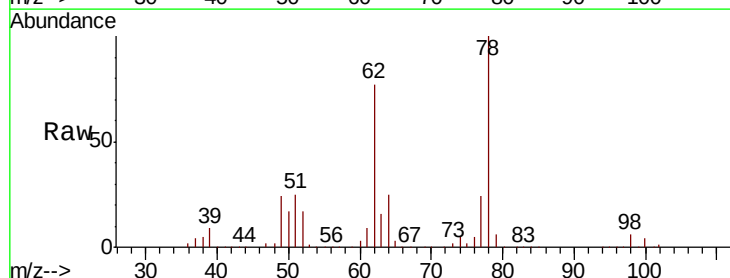


Abundance Ion 83.05 (82.75 to 83.75): VU0  
Ion 85.00 (84.70 to 85.70): VU0

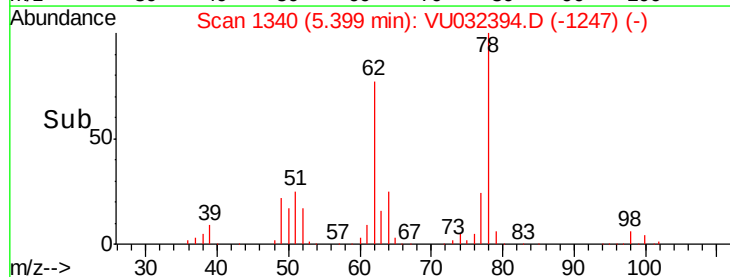
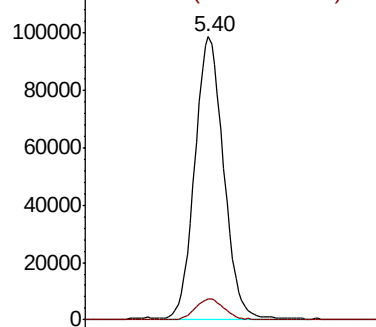


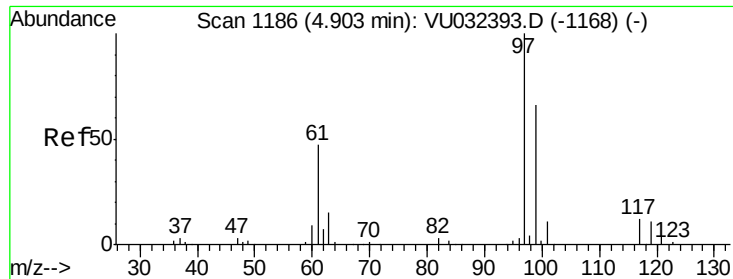
#27  
1,2-Dichloroethane  
Concen: 10.406 ug/L  
RT: 5.40 min Scan# 1340  
Delta R.T. -0.00 min  
Lab File: VU032394.D  
Acq: 03 Jun 2019 15:35

Tgt Ion: 62 Resp: 207338  
Ion Ratio Lower Upper  
62 100  
98 7.4 6.2 9.4



Abundance Ion 62.00 (61.70 to 62.70): VU0  
Ion 98.05 (97.75 to 98.75): VU0

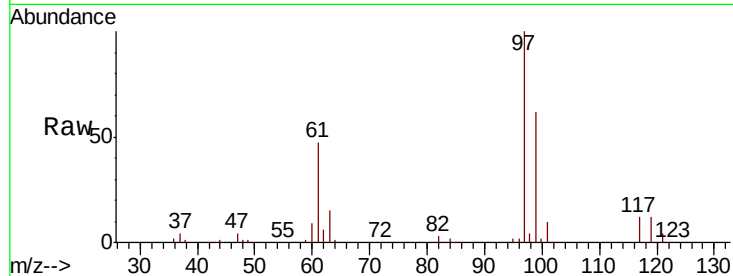




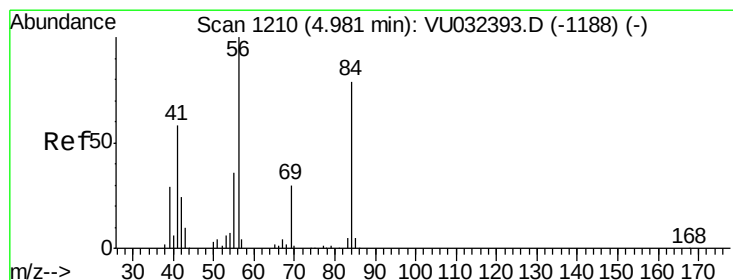
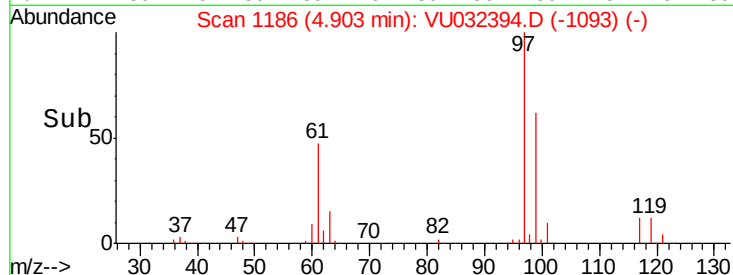
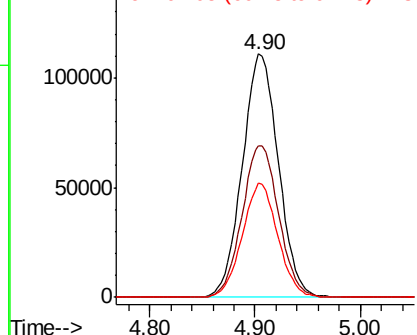
#29  
 1,1,1-Trichloroethane  
 Concen: 10.759 ug/L  
 RT: 4.90 min Scan# 1186  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VSTD01011

Tgt Ion: 97 Resp: 263721  
 Ion Ratio Lower Upper  
 97 100  
 99 63.4 51.6 77.4  
 61 46.2 37.7 56.5

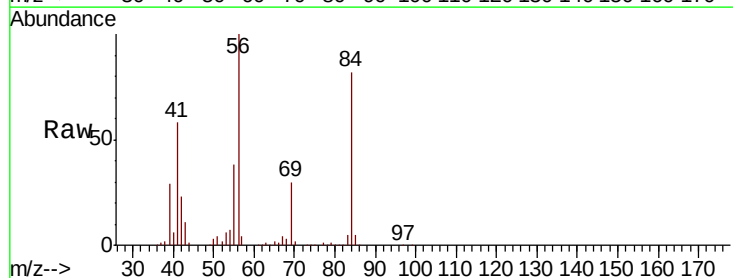


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 61.05 (60.75 to 61.75): VU0

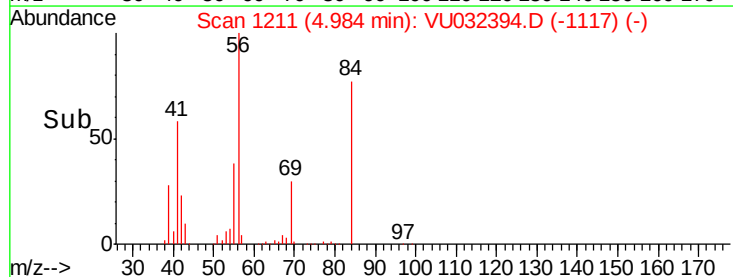
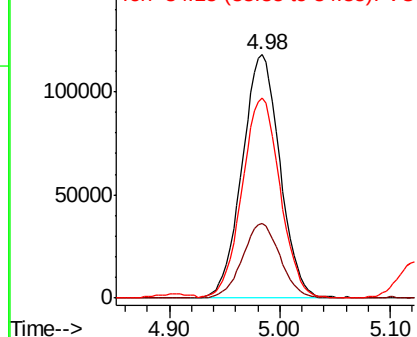


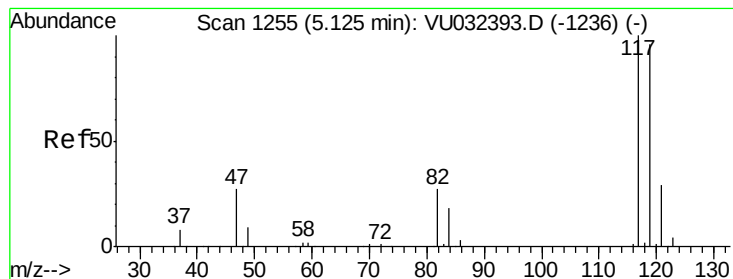
#30  
 Cyclohexane  
 Concen: 10.448 ug/L  
 RT: 4.98 min Scan# 1211  
 Delta R.T. 0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

Tgt Ion: 56 Resp: 280246  
 Ion Ratio Lower Upper  
 56 100  
 69 30.6 24.2 36.4  
 84 82.8 64.3 96.5



Abundance Ion 56.10 (55.80 to 56.80): VU0  
 Ion 69.15 (68.85 to 69.85): VU0  
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 10.845 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Instrument :

MSVOA\_U

ClientSampleId :

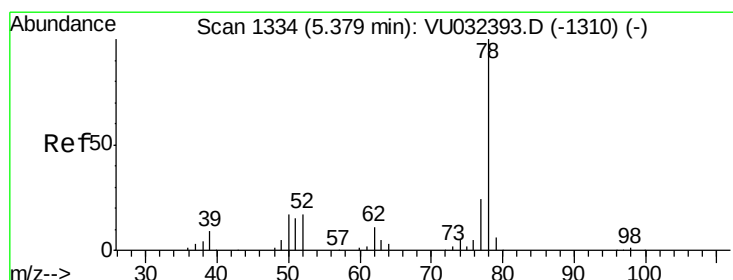
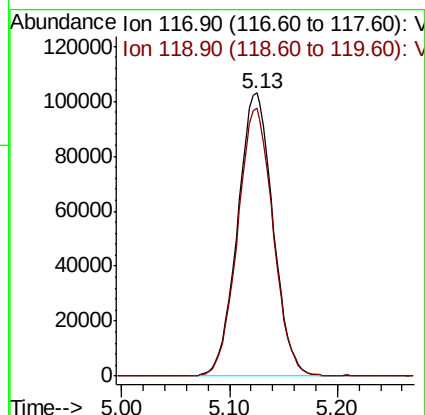
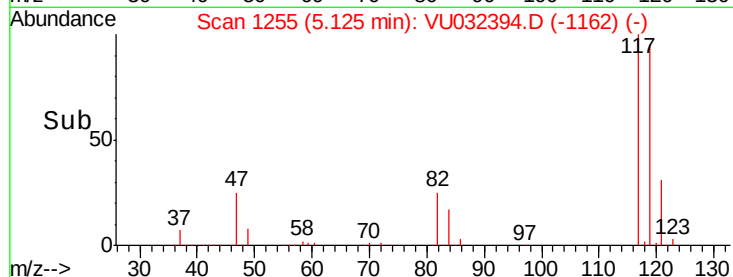
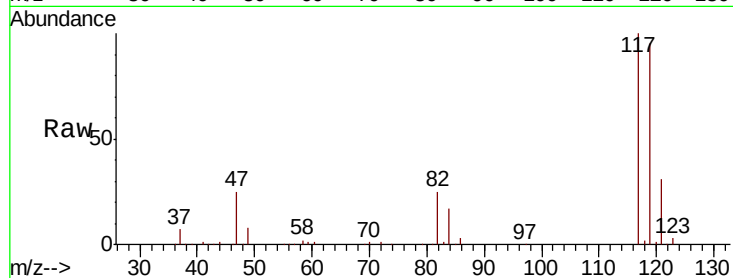
VSTD01011

Tgt Ion:117 Resp: 235415

Ion Ratio Lower Upper

117 100

119 94.8 77.0 115.4



#33

Benzene

Concen: 10.685 ug/L

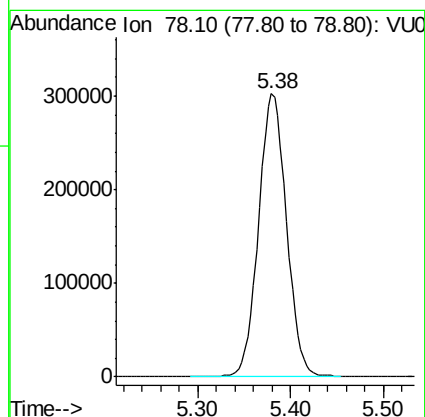
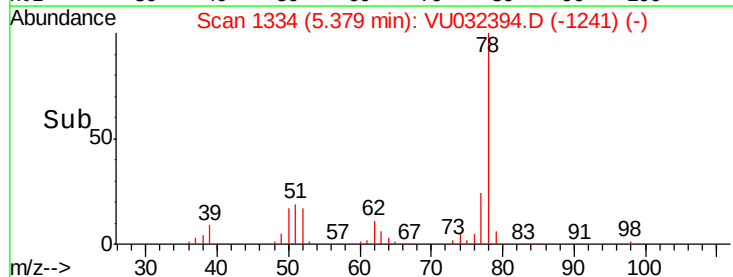
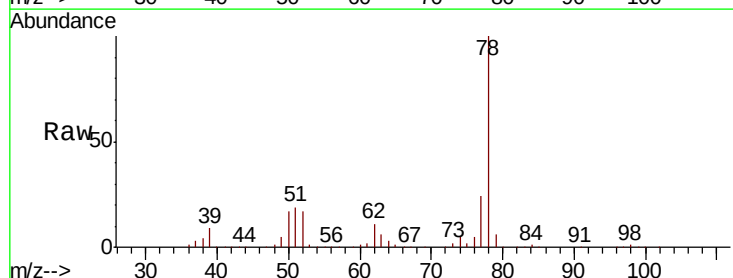
RT: 5.38 min Scan# 1334

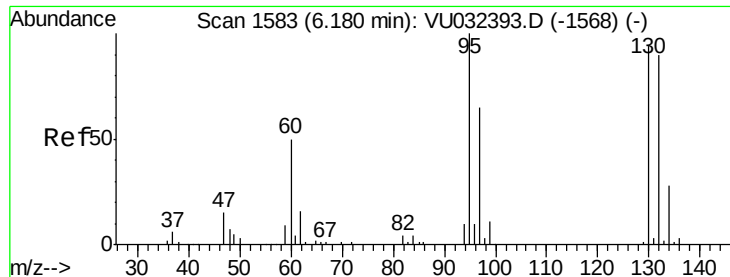
Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Tgt Ion: 78 Resp: 634660





#34

Trichloroethene

Concen: 10.653 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01011

Tgt Ion: 95 Resp: 170922

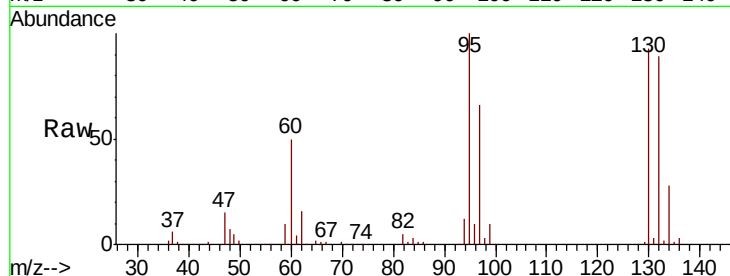
Ion Ratio Lower Upper

95 100

97 65.6 45.8 85.0

132 89.1 63.1 117.1

130 92.7 66.0 122.6

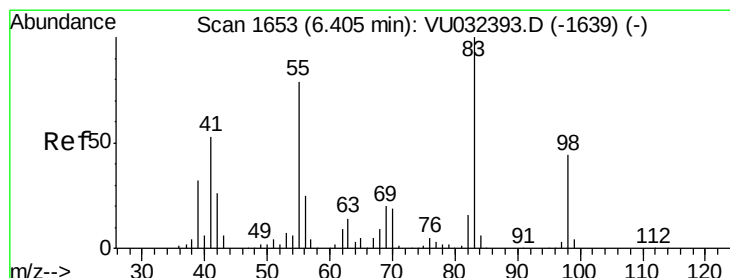
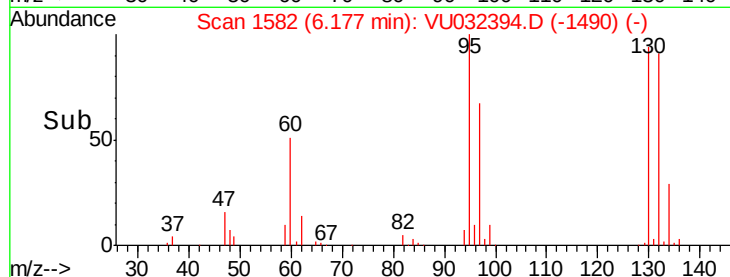
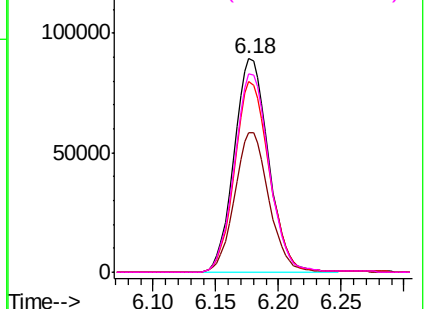


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 10.564 ug/L

RT: 6.40 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

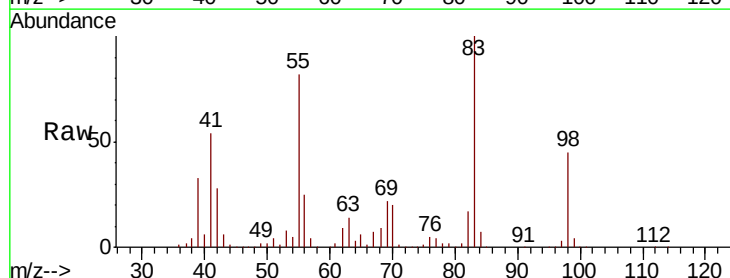
Tgt Ion: 83 Resp: 285979

Ion Ratio Lower Upper

83 100

55 81.7 64.7 97.1

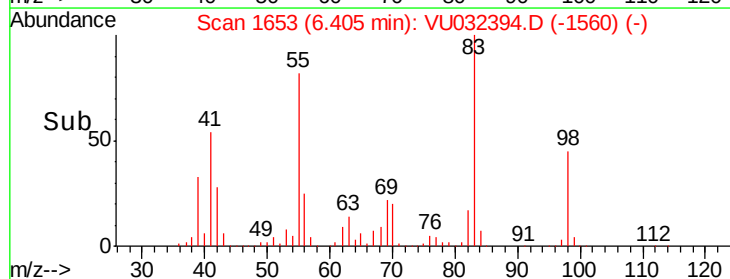
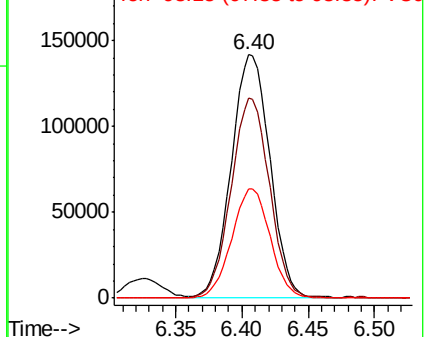
98 44.9 35.9 53.9



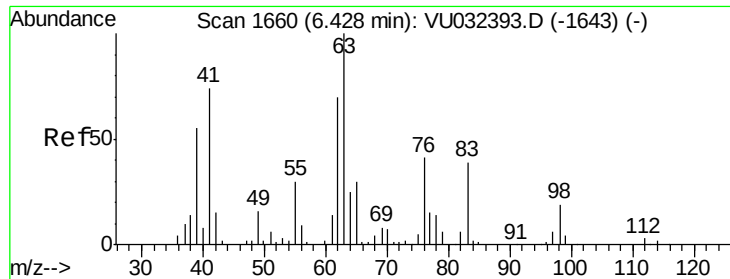
Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0



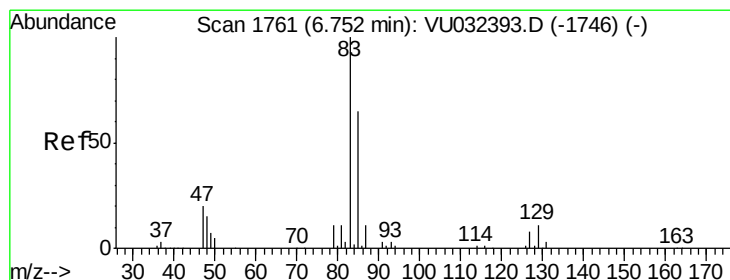
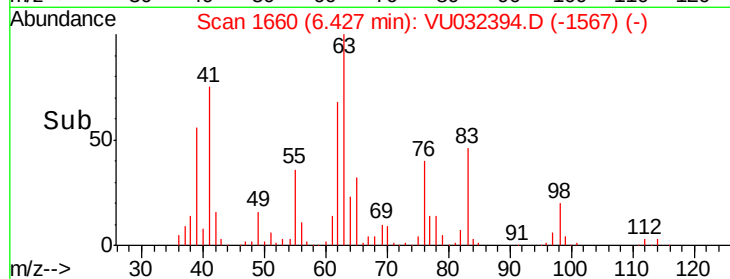
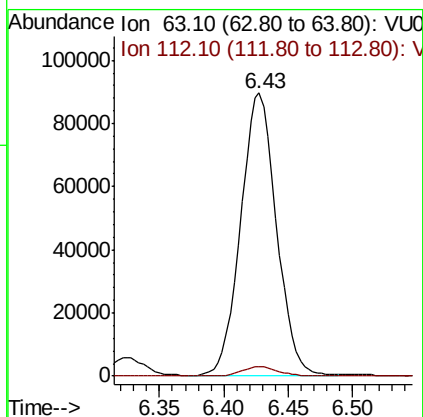
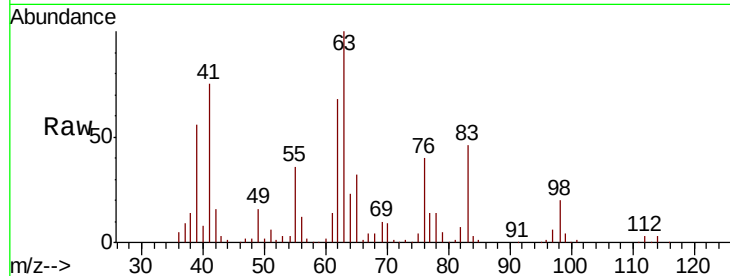




#37  
 1,2-Dichloropropane  
 Concen: 10.731 ug/L  
 RT: 6.43 min Scan# 1660  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

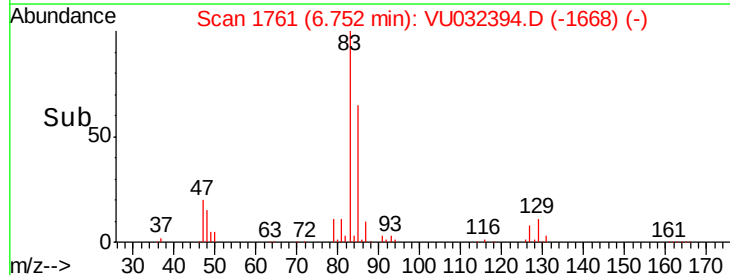
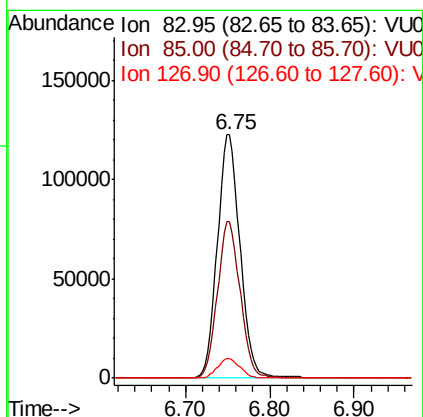
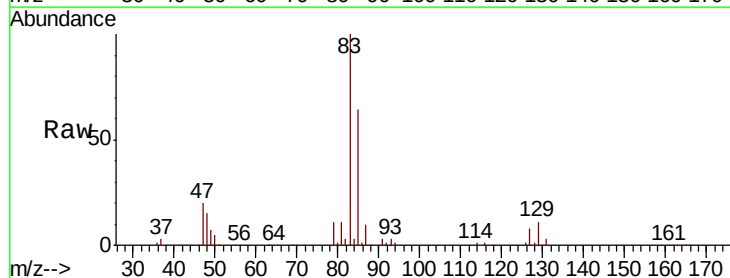
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01011

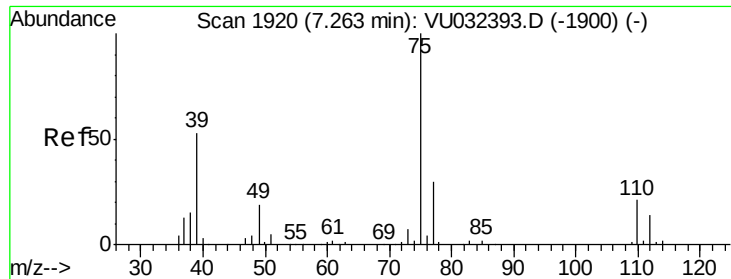
Tgt Ion: 63 Resp: 172181  
 Ion Ratio Lower Upper  
 63 100  
 112 3.4 2.6 4.0



#38  
 Bromodichloromethane  
 Concen: 10.742 ug/L  
 RT: 6.75 min Scan# 1761  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

Tgt Ion: 83 Resp: 228451  
 Ion Ratio Lower Upper  
 83 100  
 85 64.1 45.4 84.4  
 127 8.3 6.5 9.7

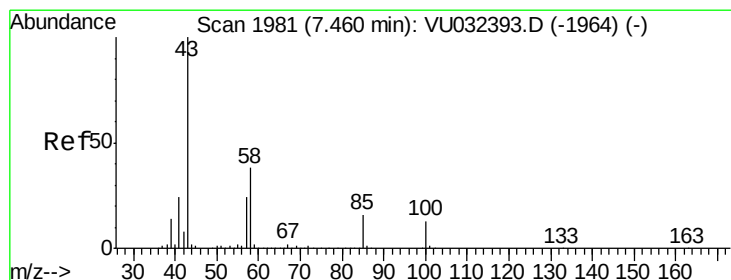
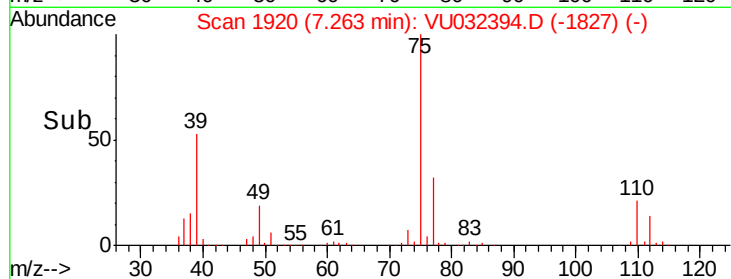
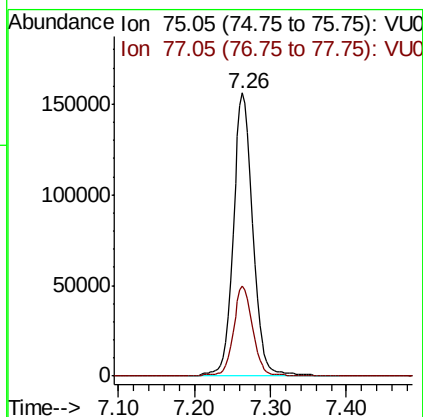
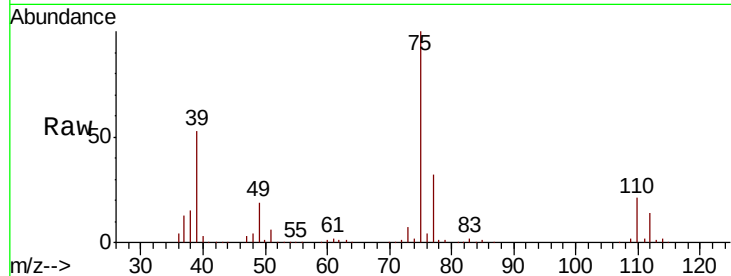




#39  
 cis-1,3-Dichloropropene  
 Concen: 10.616 ug/L  
 RT: 7.26 min Scan# 1920  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

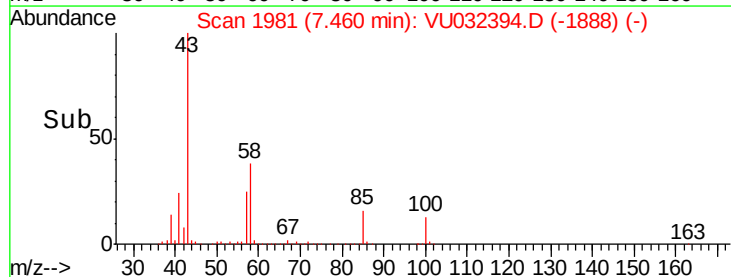
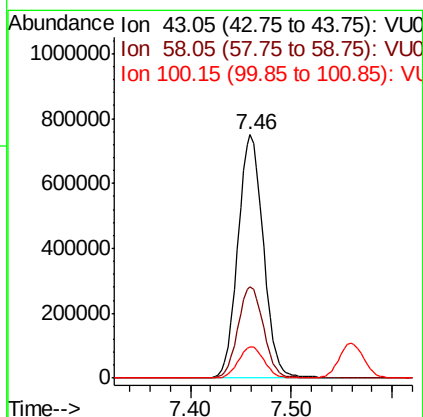
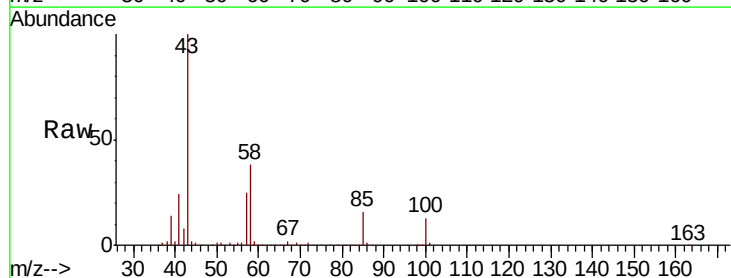
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01011

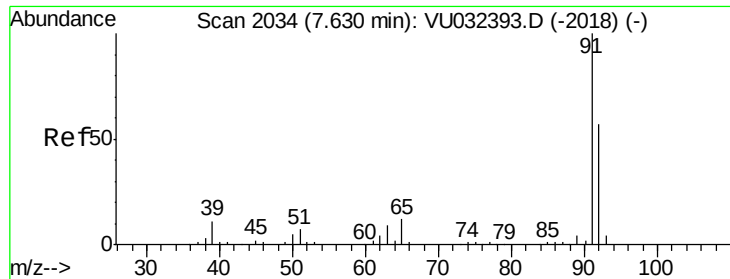
Tgt Ion: 75 Resp: 279780  
 Ion Ratio Lower Upper  
 75 100  
 77 31.8 21.1 39.1



#40  
 4-Methyl-2-pentanone  
 Concen: 107.529 ug/L  
 RT: 7.46 min Scan# 1981  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

Tgt Ion: 43 Resp: 1310257  
 Ion Ratio Lower Upper  
 43 100  
 58 37.8 30.3 45.5  
 100 13.1 10.3 15.5





#42

Toluene

Concen: 10.599 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Instrument :

MSVOA\_U

ClientSampleId :

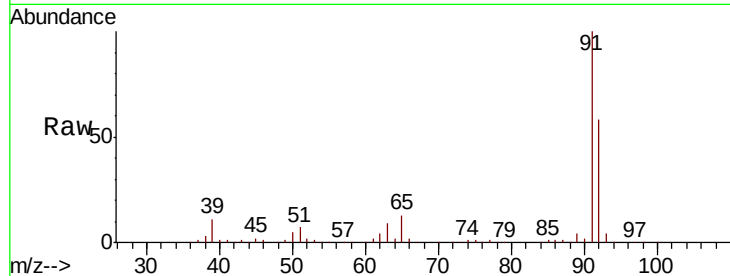
VSTD01011

Tgt Ion: 91 Resp: 688466

Ion Ratio Lower Upper

91 100

92 58.3 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU032393.D (-2018) (-)

Ion 92.15 (91.85 to 92.85): VU032394.D (-1941) (-)

7.63

400000

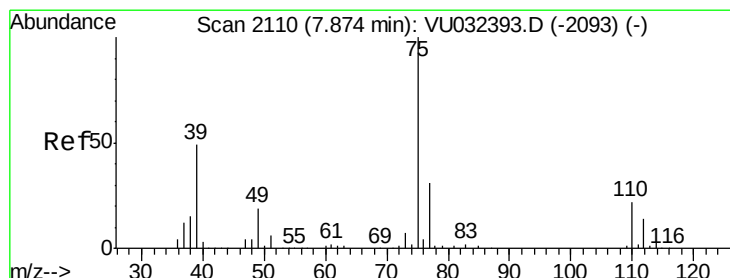
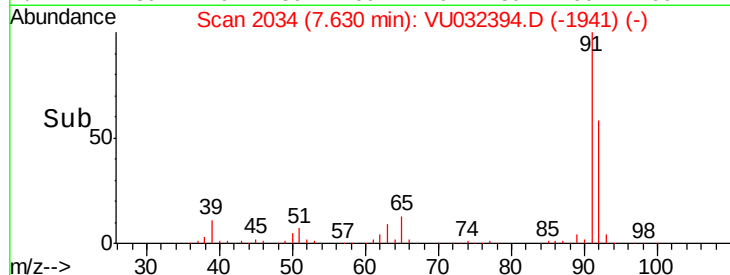
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 10.569 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU032394.D

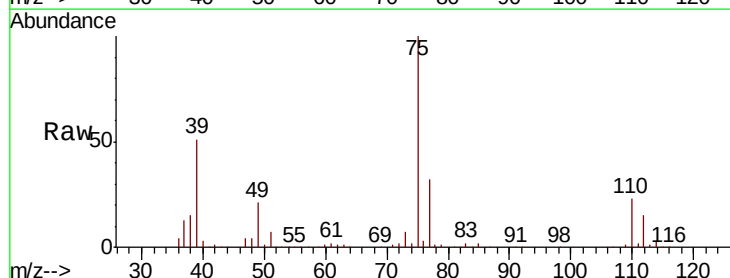
Acq: 03 Jun 2019 15:35

Tgt Ion: 75 Resp: 225621

Ion Ratio Lower Upper

75 100

77 31.9 22.0 40.8



Abundance Ion 75.05 (74.75 to 75.75): VU032393.D (-2093) (-)

Ion 77.05 (76.75 to 77.75): VU032394.D (-2177) (-)

7.87

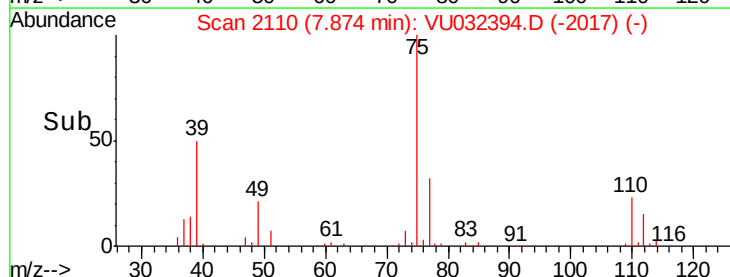
150000

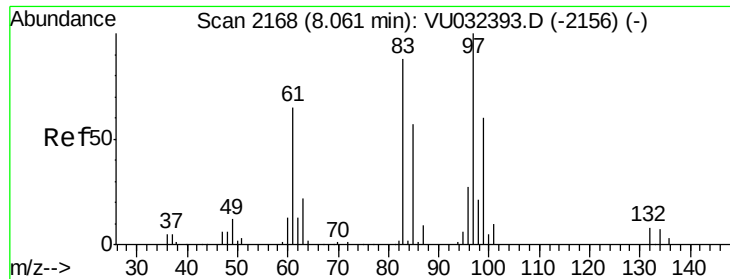
100000

50000

0

Time-->

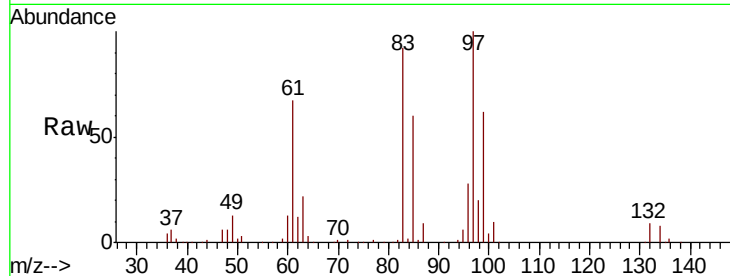




#45  
1,1,2-Trichloroethane  
Concen: 10.515 ug/L  
RT: 8.06 min Scan# 2168  
Delta R.T. -0.00 min  
Lab File: VU032394.D  
Acq: 03 Jun 2019 15:35

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01011

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 119168 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 62.2  | 42.2  | 78.4   |
| 83       | 91.8  | 61.9  | 114.9  |
| 85       | 59.5  | 39.7  | 73.7   |



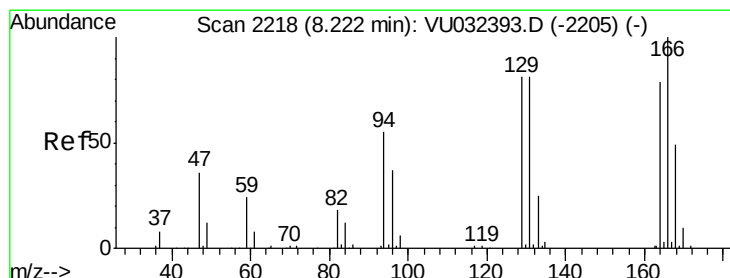
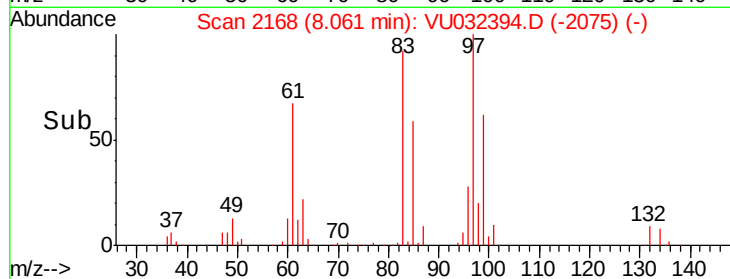
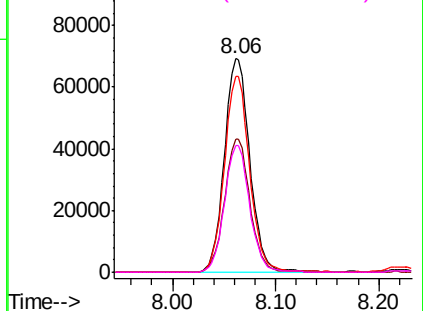
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

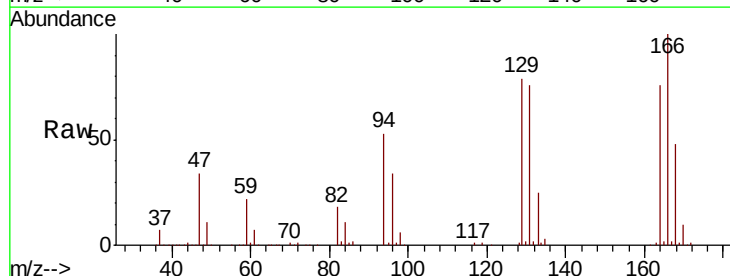
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47  
Tetrachloroethene  
Concen: 10.877 ug/L  
RT: 8.22 min Scan# 2218  
Delta R.T. -0.00 min  
Lab File: VU032394.D  
Acq: 03 Jun 2019 15:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 121699 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 103.1 | 72.1  | 133.9  |
| 131      | 99.0  | 71.9  | 133.5  |
| 166      | 131.1 | 89.0  | 165.4  |



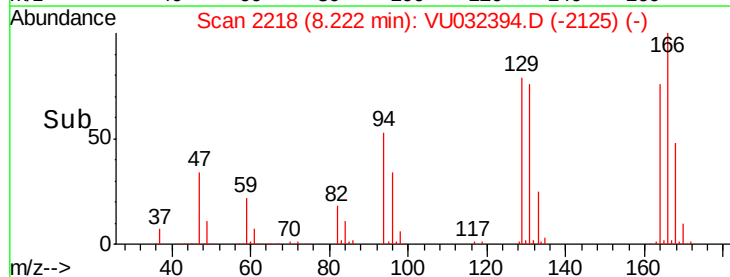
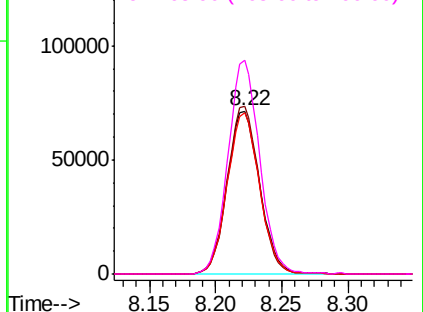
Abundance

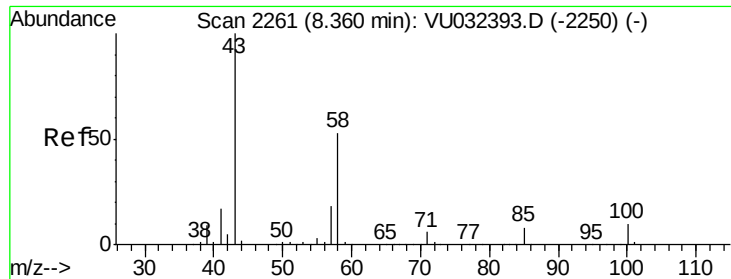
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

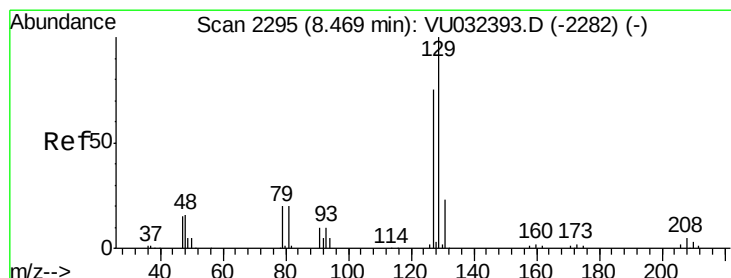
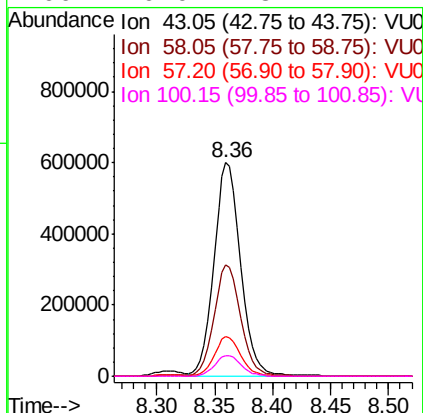
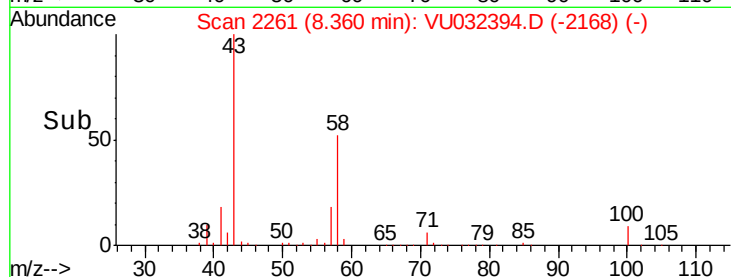
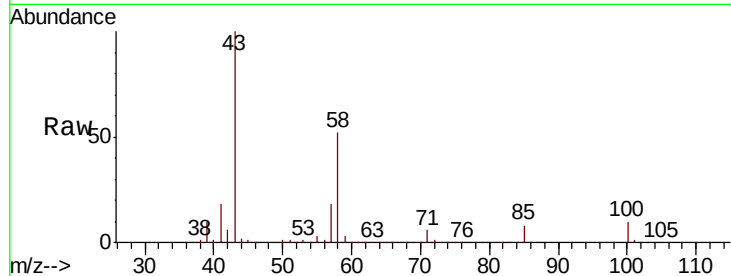




#48  
2-Hexanone  
Concen: 107.687 ug/L  
RT: 8.36 min Scan# 2261  
Delta R.T. -0.00 min  
Lab File: VU032394.D  
Acq: 03 Jun 2019 15:35

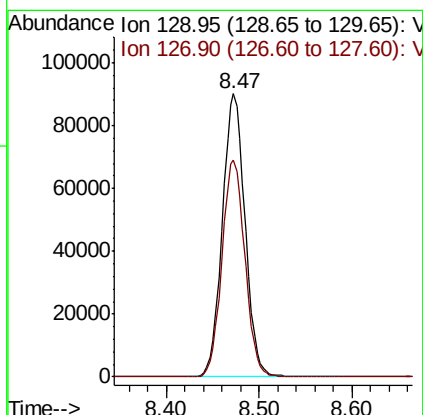
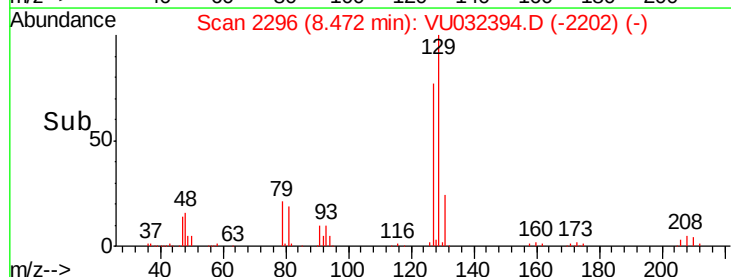
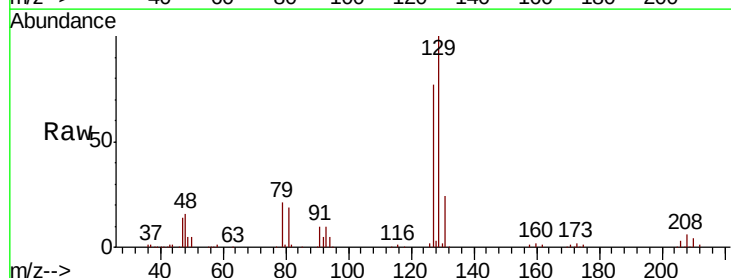
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01011

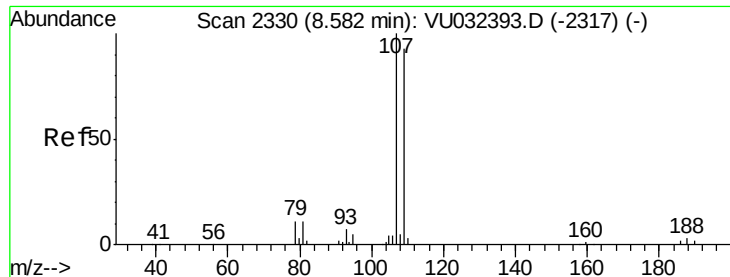
Tgt Ion: 43 Resp: 959652  
Ion Ratio Lower Upper  
43 100  
58 52.2 41.3 61.9  
57 18.3 14.5 21.7  
100 10.0 8.2 12.2



#49  
Dibromochloromethane  
Concen: 10.744 ug/L  
RT: 8.47 min Scan# 2296  
Delta R.T. 0.00 min  
Lab File: VU032394.D  
Acq: 03 Jun 2019 15:35

Tgt Ion: 129 Resp: 152857  
Ion Ratio Lower Upper  
129 100  
127 76.7 52.6 97.8

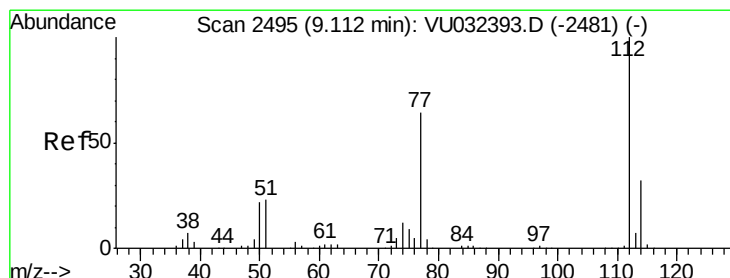
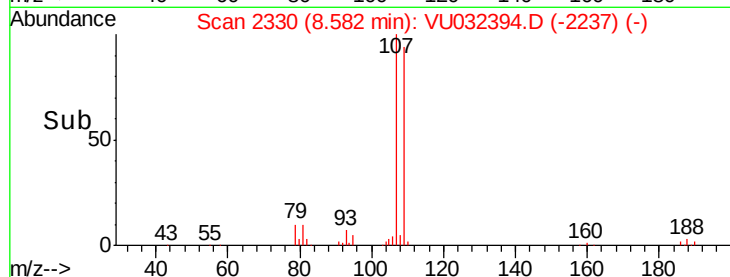
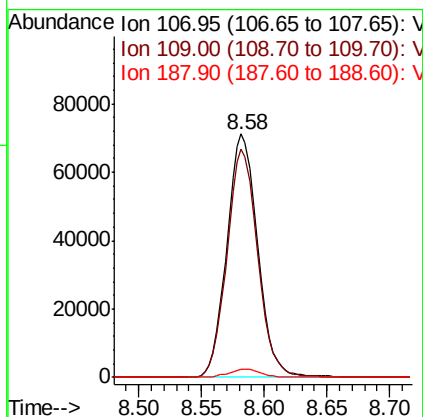
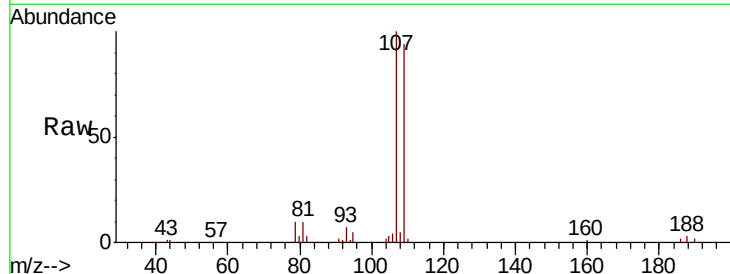




#50  
1,2-Dibromoethane  
Concen: 10.859 ug/L  
RT: 8.58 min Scan# 2330  
Delta R.T. -0.00 min  
Lab File: VU032394.D  
Acq: 03 Jun 2019 15:35

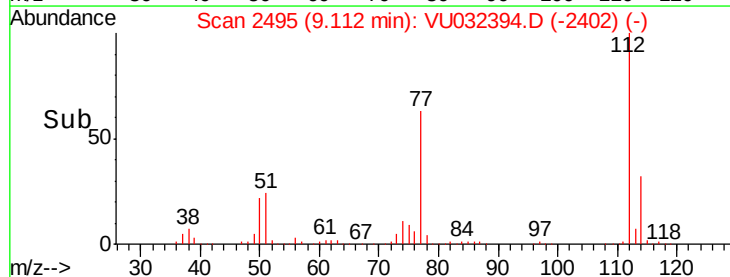
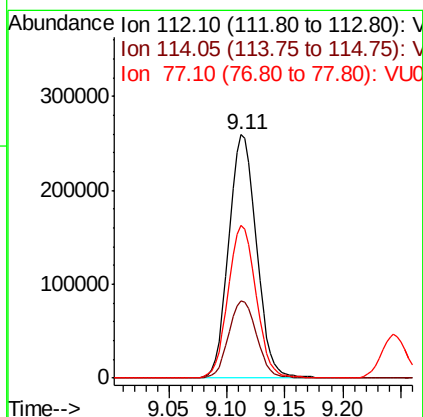
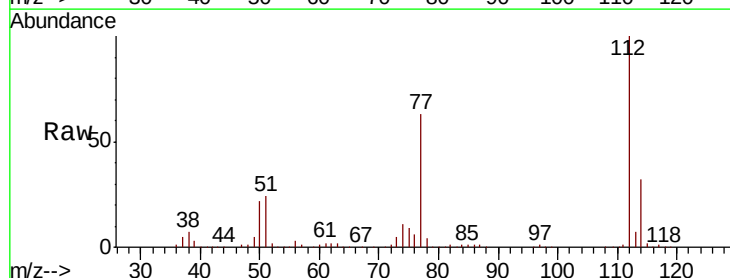
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01011

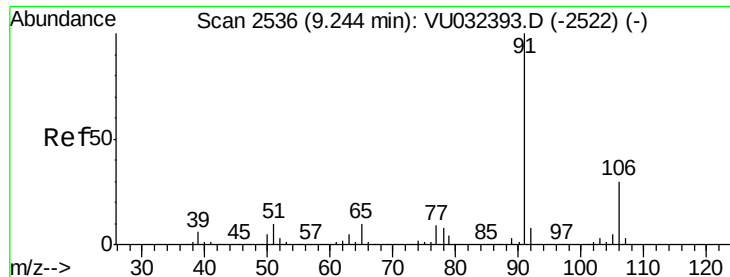
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 93.8  | 65.3  | 121.3 |
| 188     | 3.2   | 2.6   | 3.8   |



#51  
Chlorobenzene  
Concen: 10.762 ug/L  
RT: 9.11 min Scan# 2495  
Delta R.T. -0.00 min  
Lab File: VU032394.D  
Acq: 03 Jun 2019 15:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 31.8  | 22.1  | 41.1  |
| 77      | 62.9  | 51.0  | 76.6  |





#52

Ethylbenzene

Concen: 10.689 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Instrument :

MSVOA\_U

ClientSampled :

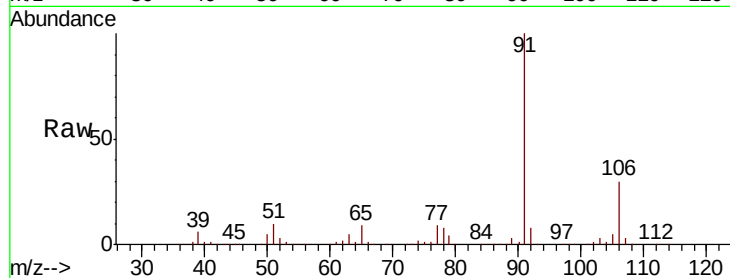
VSTD01011

Tgt Ion: 91 Resp: 788610

Ion Ratio Lower Upper

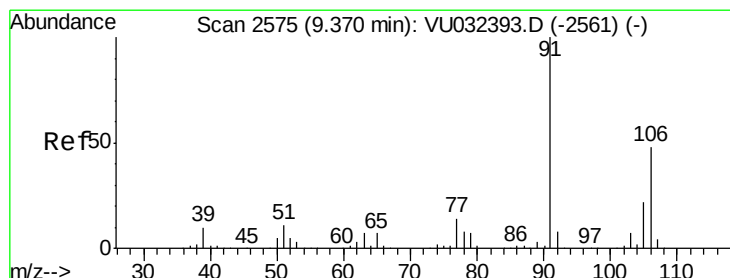
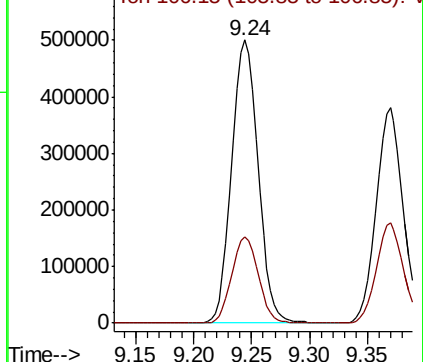
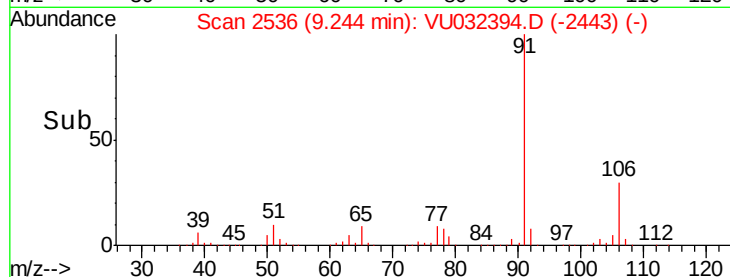
91 100

106 30.5 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU032394.D (-2522) (-)

Ion 106.15 (105.85 to 106.85): VU032394.D (-2443) (-)



#53

m,p-Xylene

Concen: 10.597 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU032394.D

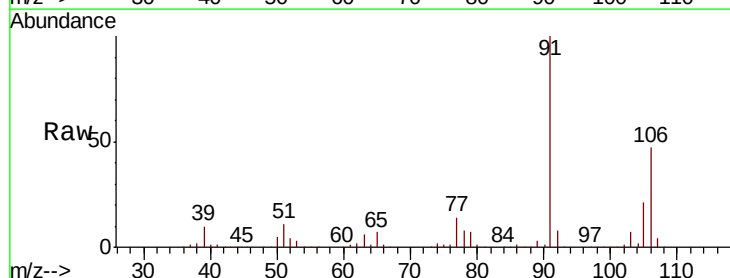
Acq: 03 Jun 2019 15:35

Tgt Ion: 106 Resp: 290010

Ion Ratio Lower Upper

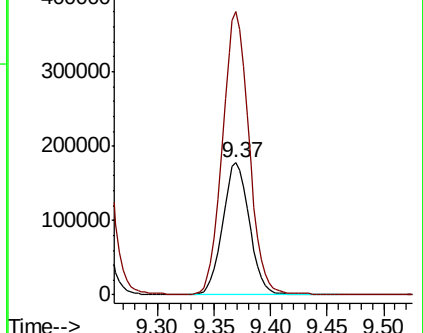
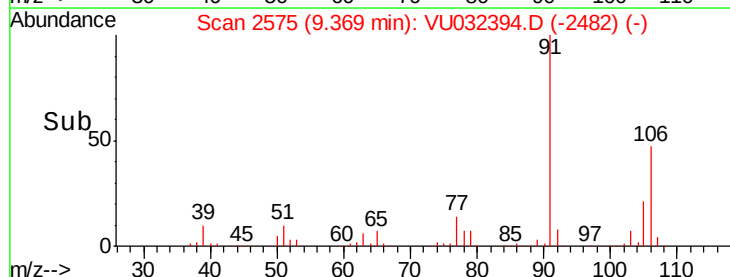
106 100

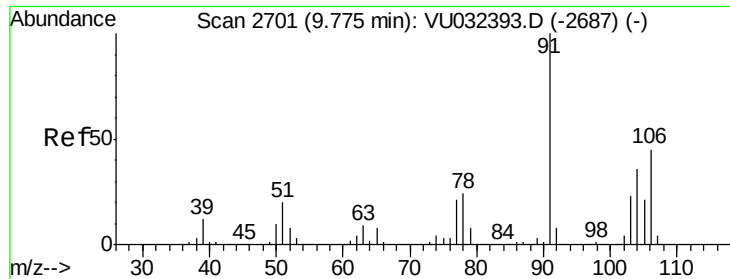
91 214.8 144.8 269.0



Abundance Ion 106.15 (105.85 to 106.85): VU032394.D (-2575) (-)

Ion 91.15 (90.85 to 91.85): VU032394.D (-2482) (-)

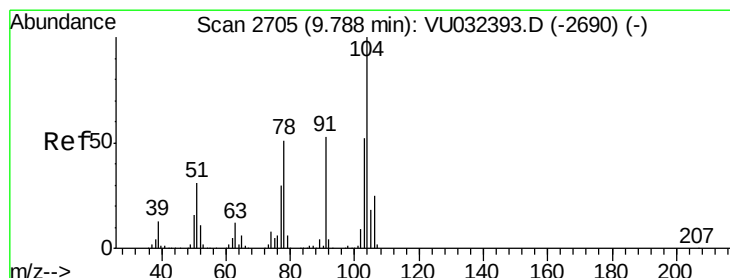
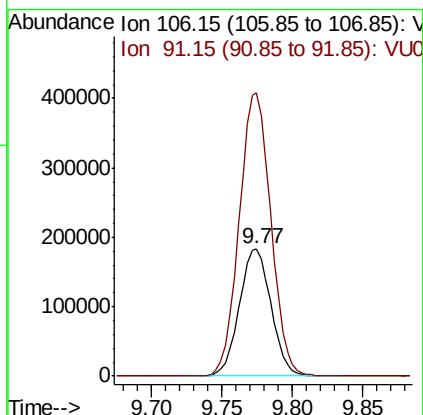
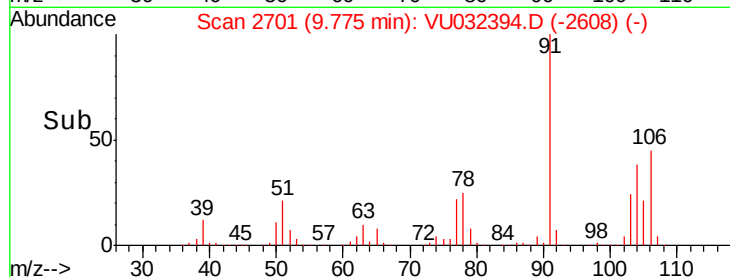
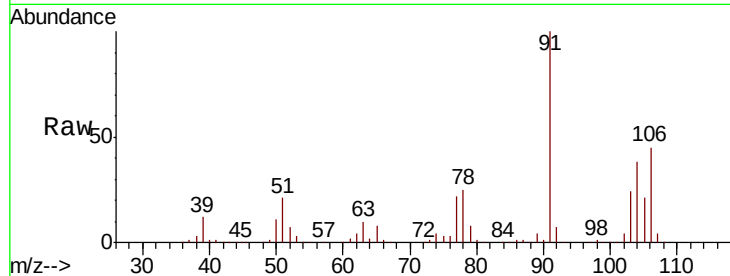




#54  
o-Xylene  
Concen: 10.709 ug/L  
RT: 9.77 min Scan# 2701  
Delta R.T. -0.00 min  
Lab File: VU032394.D  
Acq: 03 Jun 2019 15:35

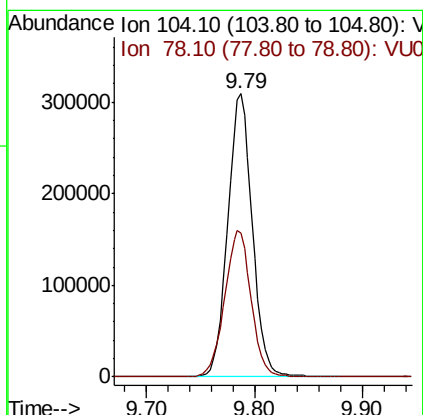
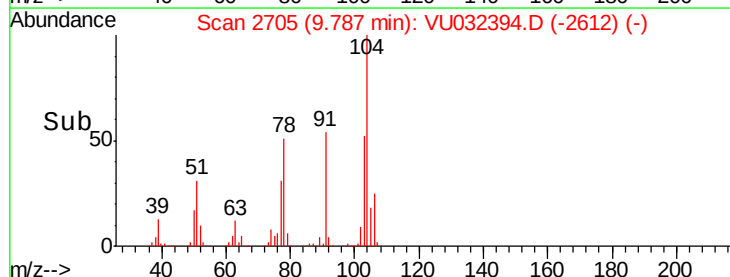
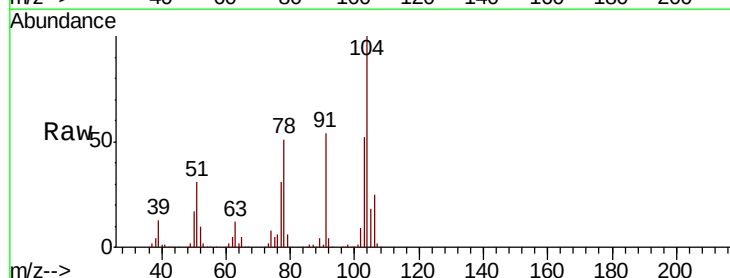
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01011

Tgt Ion:106 Resp: 289641  
Ion Ratio Lower Upper  
106 100  
91 221.5 156.9 291.3

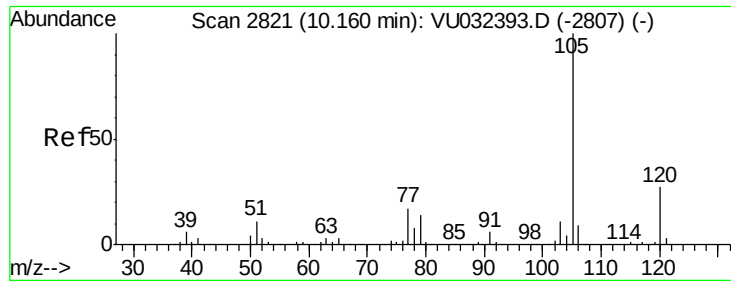


#55  
Styrene  
Concen: 10.799 ug/L  
RT: 9.79 min Scan# 2705  
Delta R.T. -0.00 min  
Lab File: VU032394.D  
Acq: 03 Jun 2019 15:35

Tgt Ion:104 Resp: 490963  
Ion Ratio Lower Upper  
104 100  
78 50.6 35.5 65.9







#56

Isopropylbenzene

Concen: 10.694 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01011

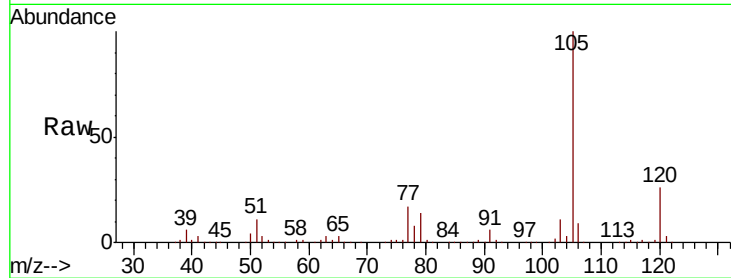
Tgt Ion: 105 Resp: 762008

Ion Ratio Lower Upper

105 100

120 26.5 20.9 31.3

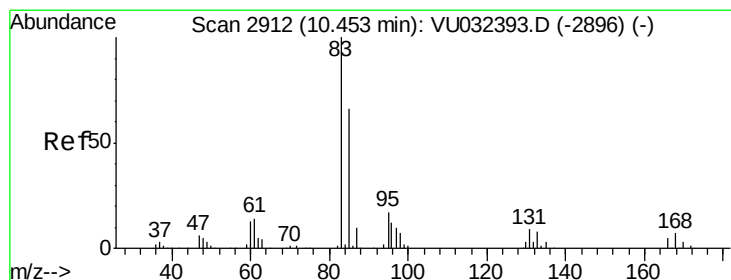
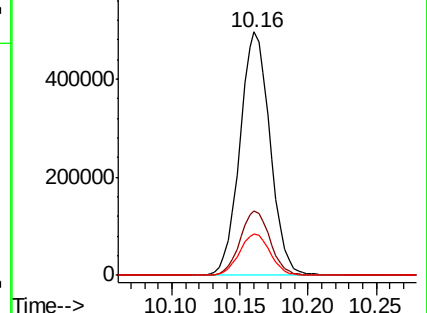
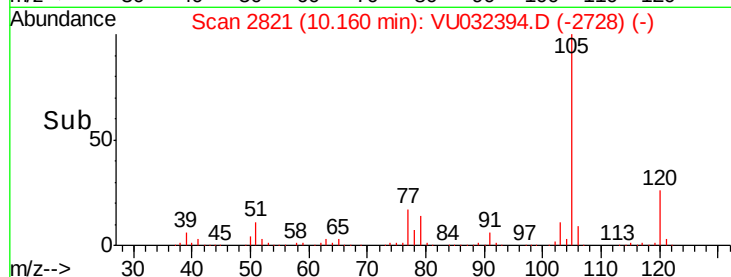
77 17.4 13.4 20.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 10.819 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

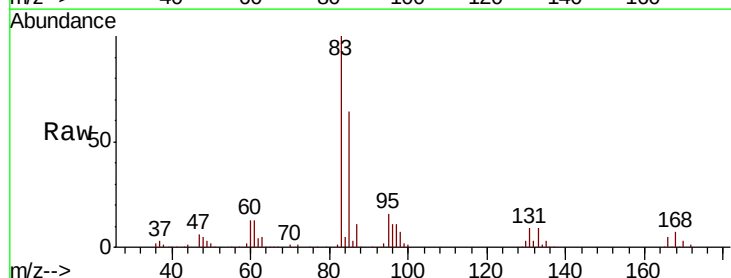
Tgt Ion: 83 Resp: 161615

Ion Ratio Lower Upper

83 100

85 63.9 46.5 86.5

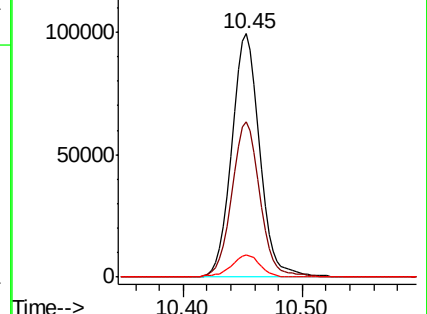
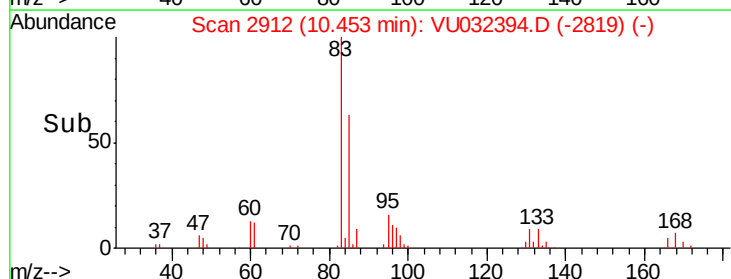
131 9.0 7.4 11.2

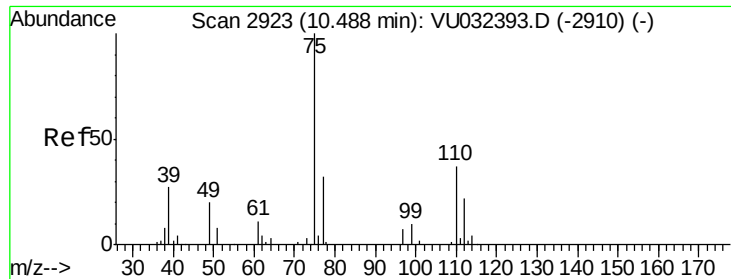


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

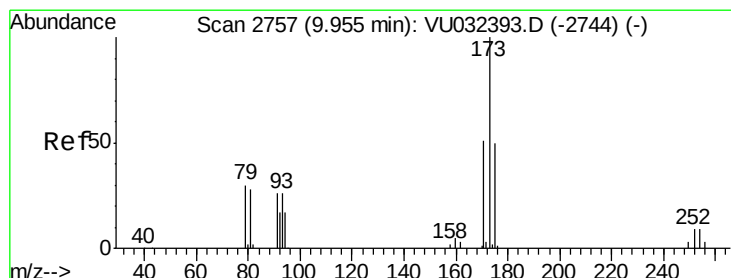
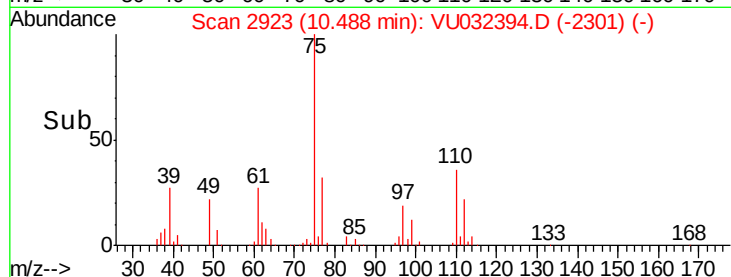
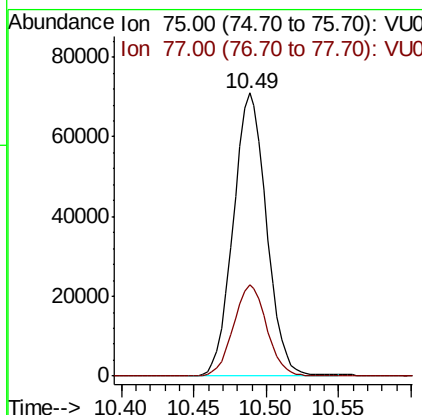
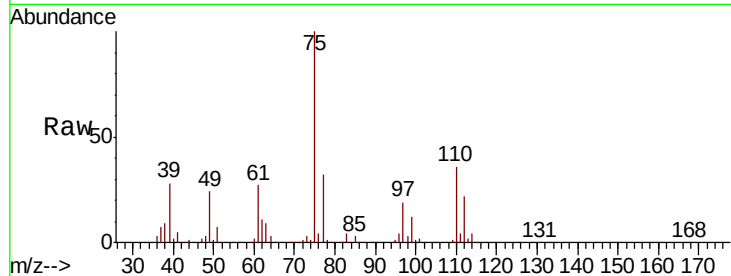




#59  
 1,2,3-Trichloropropane  
 Concen: 10.675 ug/L  
 RT: 10.49 min Scan# 2923  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

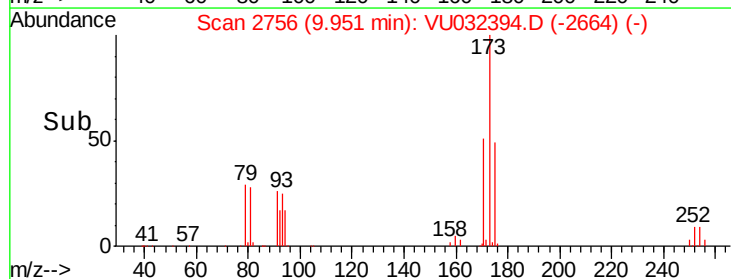
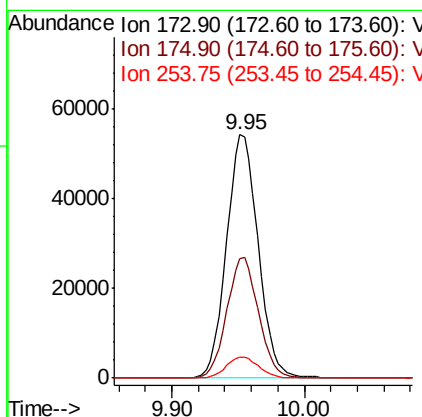
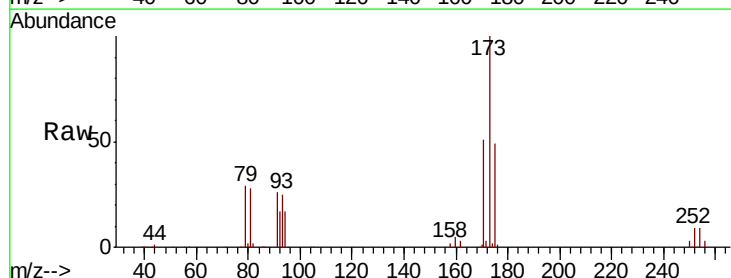
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01011

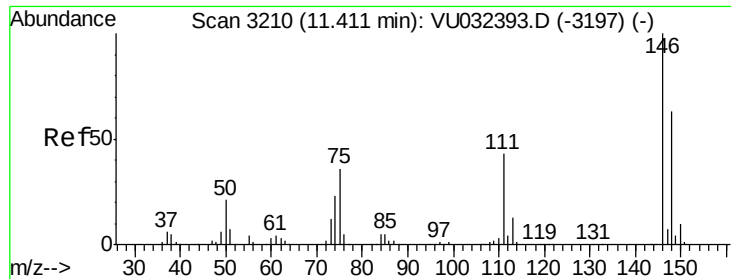
Tgt Ion: 75 Resp: 113100  
 Ion Ratio Lower Upper  
 75 100  
 77 32.2 26.1 39.1



#61  
 Bromoform  
 Concen: 10.569 ug/L  
 RT: 9.95 min Scan# 2756  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

Tgt Ion: 173 Resp: 89852  
 Ion Ratio Lower Upper  
 173 100  
 175 49.5 38.6 58.0  
 254 8.8 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 10.367 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01011

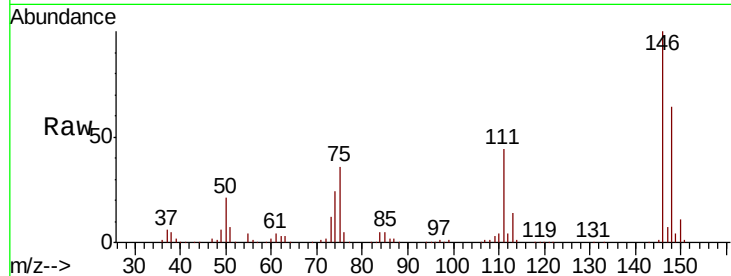
Tgt Ion:146 Resp: 331681

Ion Ratio Lower Upper

146 100

111 44.5 29.8 55.3

148 63.8 44.2 82.0

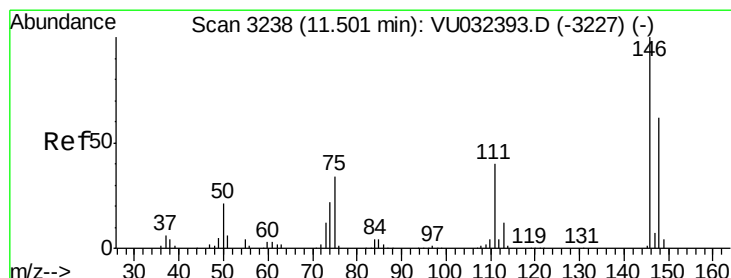
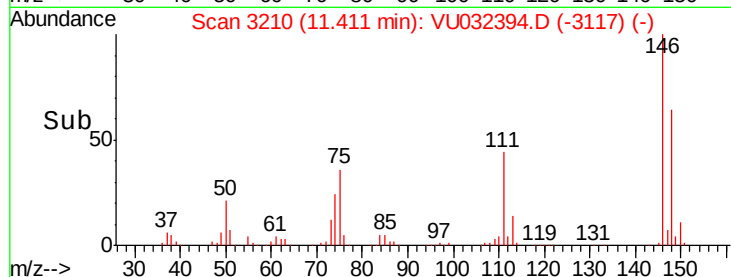
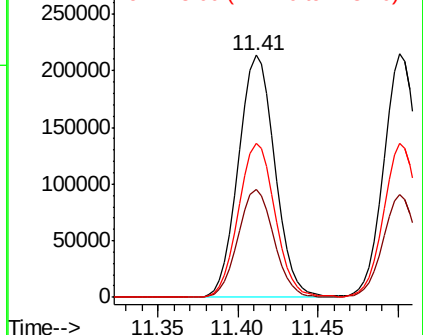


Abundance

Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 10.349 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

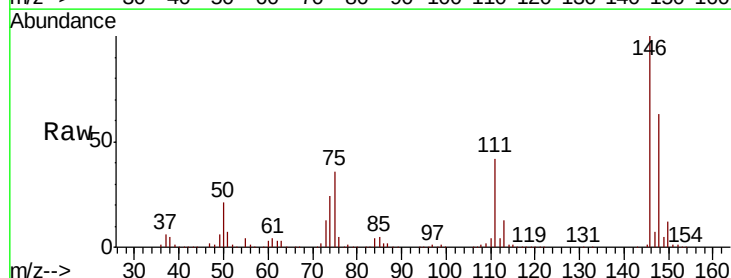
Tgt Ion:146 Resp: 331878

Ion Ratio Lower Upper

146 100

111 42.1 28.6 53.2

148 63.0 43.3 80.3

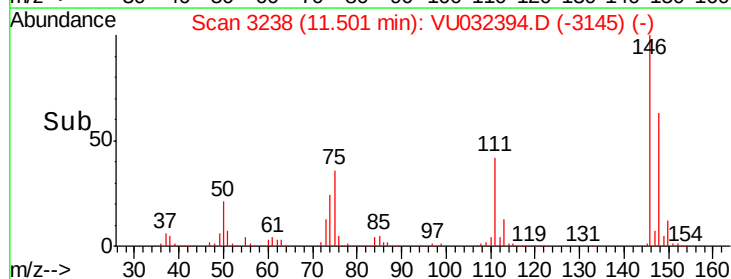
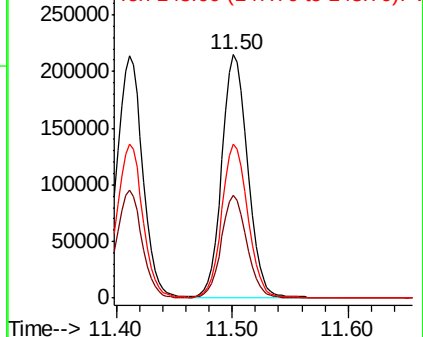


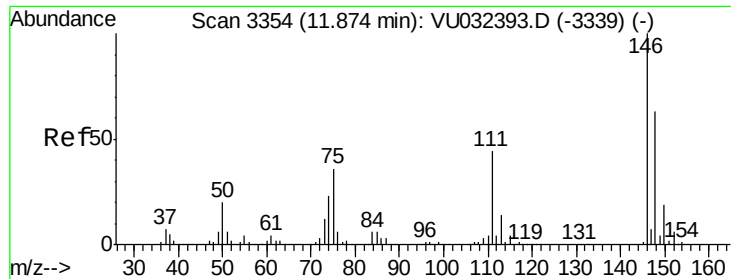
Abundance

Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

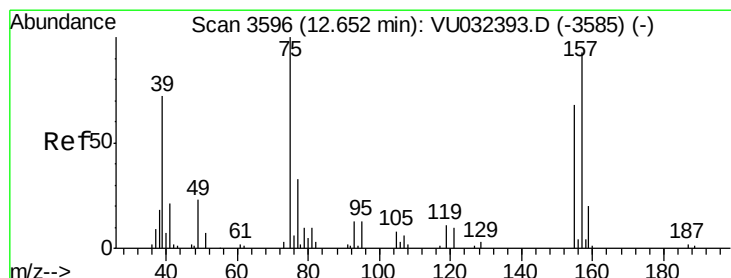
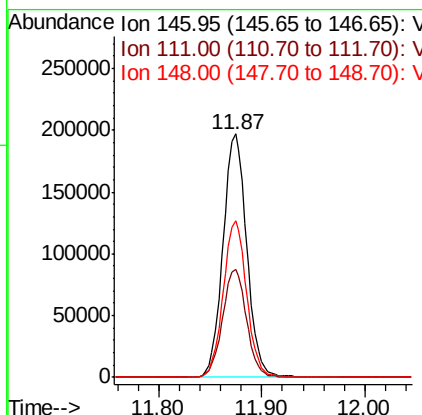
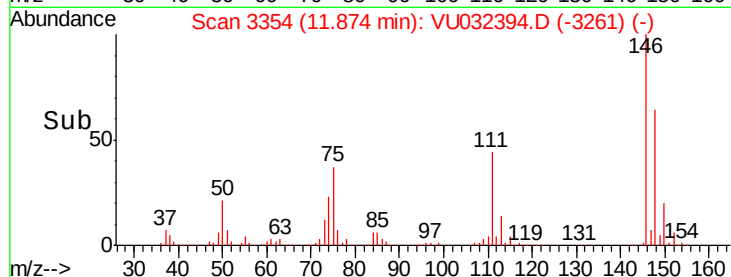
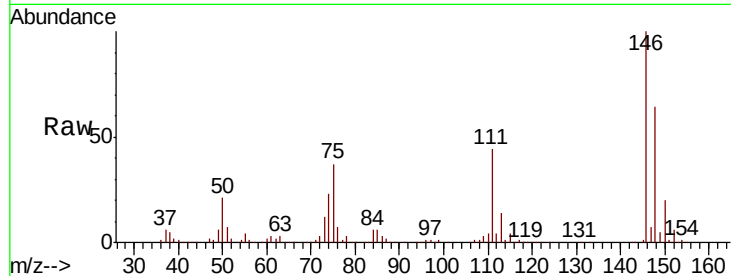




#65  
 1,2-Dichlorobenzene  
 Concen: 10.414 ug/L  
 RT: 11.87 min Scan# 3354  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

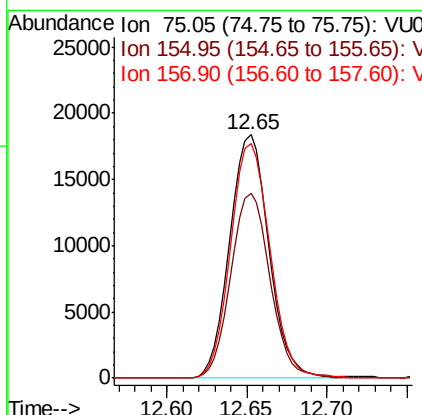
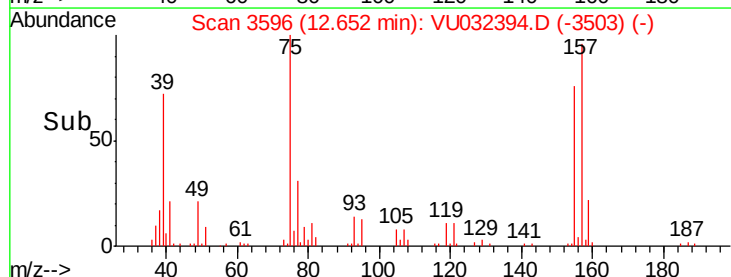
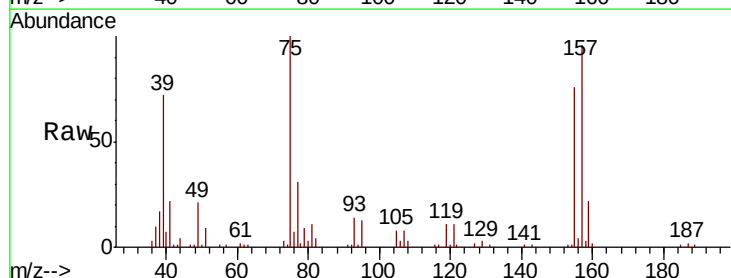
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01011

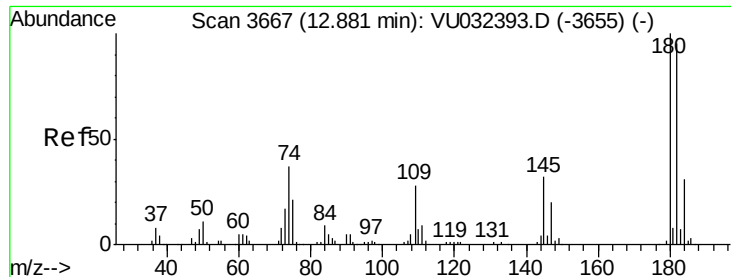
Tgt Ion: 146 Resp: 316508  
 Ion Ratio Lower Upper  
 146 100  
 111 44.3 35.2 52.8  
 148 64.4 50.3 75.5



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 10.250 ug/L  
 RT: 12.65 min Scan# 3596  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

Tgt Ion: 75 Resp: 30671  
 Ion Ratio Lower Upper  
 75 100  
 155 76.0 54.8 82.2  
 157 96.2 74.7 112.1

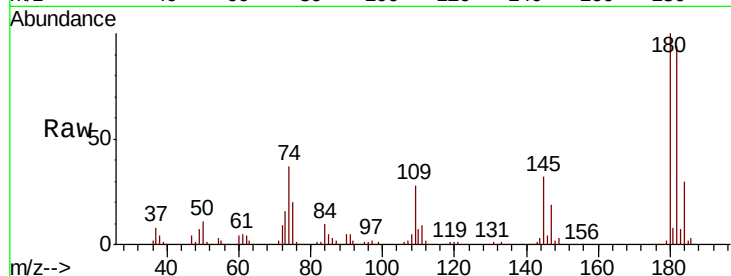




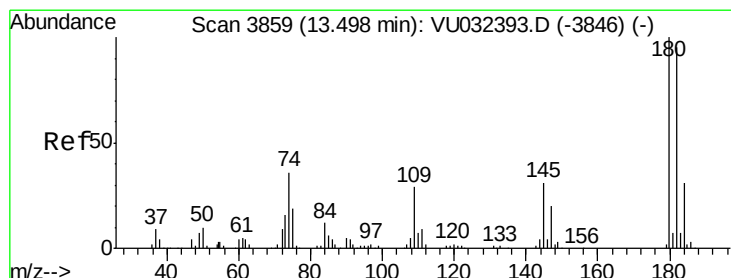
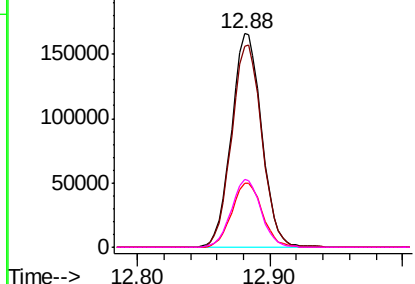
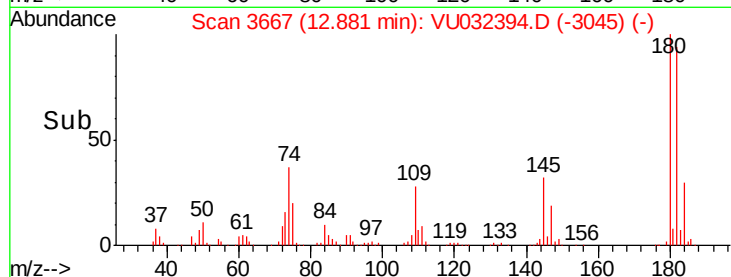
#67  
 1,3,5-Trichlorobenzene  
 Concen: 10.611 ug/L  
 RT: 12.88 min Scan# 3667  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01011

Tgt Ion:180 Resp: 262720  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 76.0 114.0  
 184 30.4 24.5 36.7  
 145 31.2 25.2 37.8

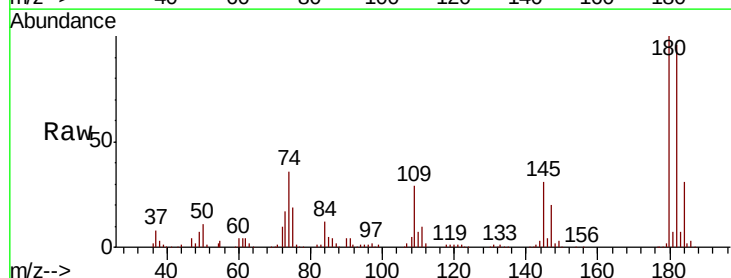


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

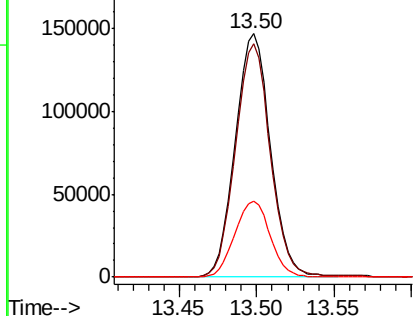
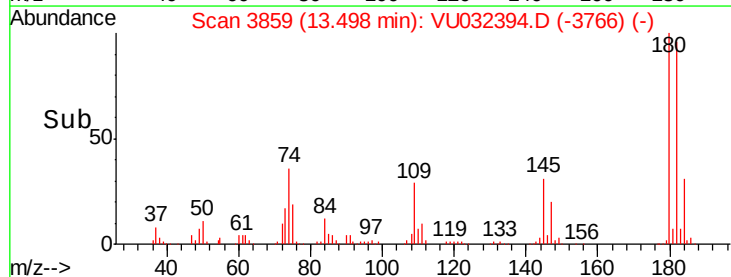


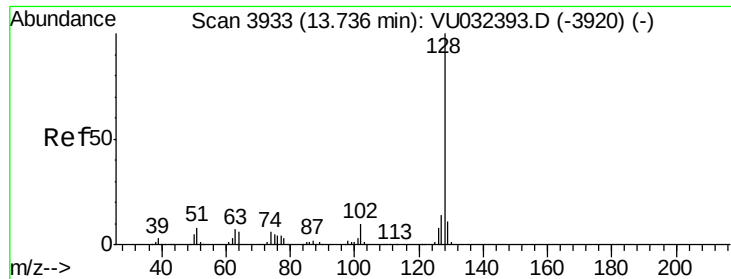
#68  
 1,2,4-trichlorobenzene  
 Concen: 10.822 ug/L  
 RT: 13.50 min Scan# 3859  
 Delta R.T. -0.00 min  
 Lab File: VU032394.D  
 Acq: 03 Jun 2019 15:35

Tgt Ion:180 Resp: 232720  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 77.3 115.9  
 145 31.6 25.0 37.4



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





#69

Naphthalene

Concen: 11.036 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01011

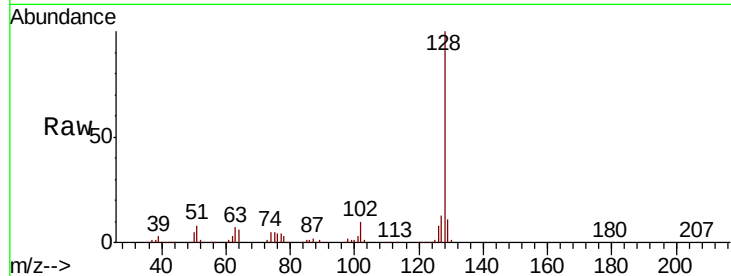
Tgt Ion:128 Resp: 466859

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

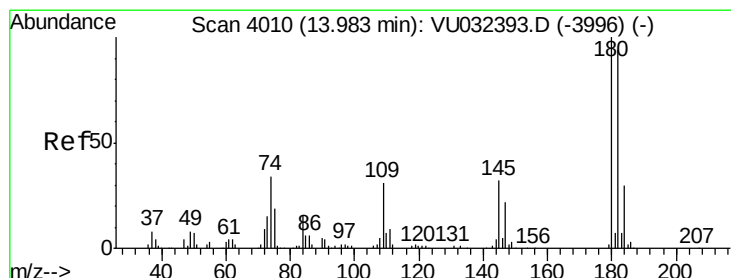
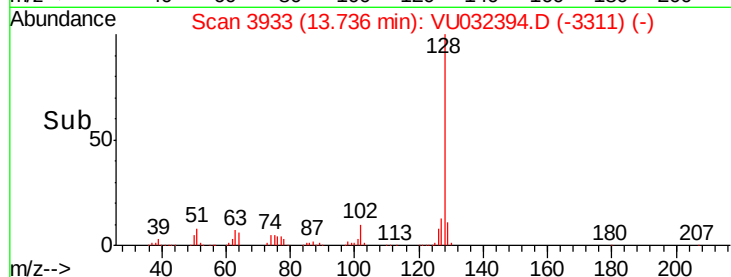
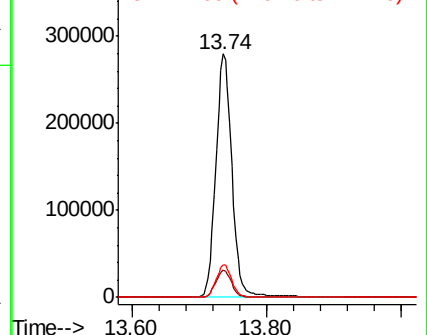
127 13.1 11.0 16.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 10.720 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU032394.D

Acq: 03 Jun 2019 15:35

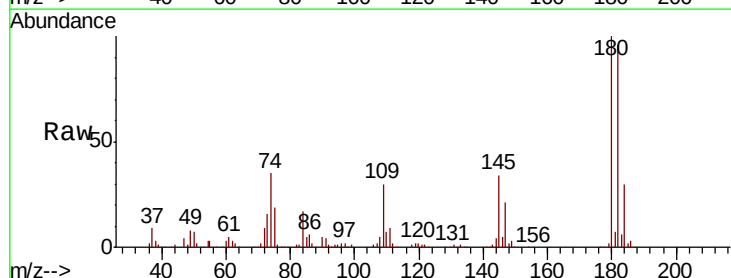
Tgt Ion:180 Resp: 216287

Ion Ratio Lower Upper

180 100

182 95.8 76.6 114.8

145 33.1 26.7 40.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

