

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR092818\  
 Data File : VR025906.D  
 Acq On : 28 Sep 2018 18:03  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :

Quant Time: Sep 29 05:16:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR092718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Sep 29 05:14:56 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 524528   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.28 | 117  | 456236   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 169037   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.17   | 65    | 168489   | 4.07     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 81.40% |
| 7) Chloroethane-d5             | 2.63   | 69    | 149203   | 4.41     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 88.20% |
| 11) 1,1-Dichloroethene-d2      | 3.64   | 63    | 394775   | 4.06     | ug/L | 0.02   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 81.20% |
| 20) 2-Butanone-d5              | 6.59   | 46    | 229555   | 49.78    | ug/L | 0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.56% |
| 24) Chloroform-d               | 7.20   | 84    | 318768   | 4.43     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.60% |
| 26) 1,2-Dichloroethane-d4      | 7.90   | 65    | 139051   | 4.49     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.80% |
| 32) Benzene-d6                 | 7.85   | 84    | 609769   | 4.02     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 80.40% |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 173163   | 4.23     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 84.60% |
| 41) Toluene-d8                 | 9.97   | 98    | 563583   | 3.95     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 79.00% |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 39303    | 4.23     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 84.60% |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 176140   | 49.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.46% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 75440    | 4.54     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 90.80% |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 116209   | 4.29     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 85.80% |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.84 | 85  | 130987 | 4.108  | ug/L 95   |
| 3) Chloromethane               | 2.01 | 50  | 198615 | 4.381  | ug/L 94   |
| 5) Vinyl chloride              | 2.17 | 62  | 188149 | 4.170  | ug/L 93   |
| 6) Bromomethane                | 2.52 | 94  | 125188 | 4.444  | ug/L 99   |
| 8) Chloroethane                | 2.66 | 64  | 121883 | 4.747  | ug/L 96   |
| 9) Trichlorofluoromethane      | 2.94 | 101 | 100131 | 1.598  | ug/L # 15 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.69 | 101 | 176441 | 4.607  | ug/L 96   |
| 12) 1,1-Dichloroethene         | 3.65 | 96  | 183669 | 4.639  | ug/L 83   |
| 13) Acetone                    | 3.70 | 43  | 154035 | 46.087 | ug/L 99   |
| 14) Carbon disulfide           | 3.95 | 76  | 463948 | 4.840  | ug/L 97   |
| 15) Methyl Acetate             | 4.19 | 43  | 40732  | 4.395  | ug/L 100  |
| 16) Methylene chloride         | 4.40 | 84  | 159310 | 4.375  | ug/L 95   |
| 17) Methyl tert-butyl Ether    | 4.89 | 73  | 193886 | 4.422  | ug/L 99   |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96  | 151210 | 4.617  | ug/L 80   |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 282129 | 4.351  | ug/L 95   |
| 21) 2-Butanone                 | 6.69 | 43  | 207743 | 45.191 | ug/L 98   |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96  | 143706 | 4.361  | ug/L # 99 |

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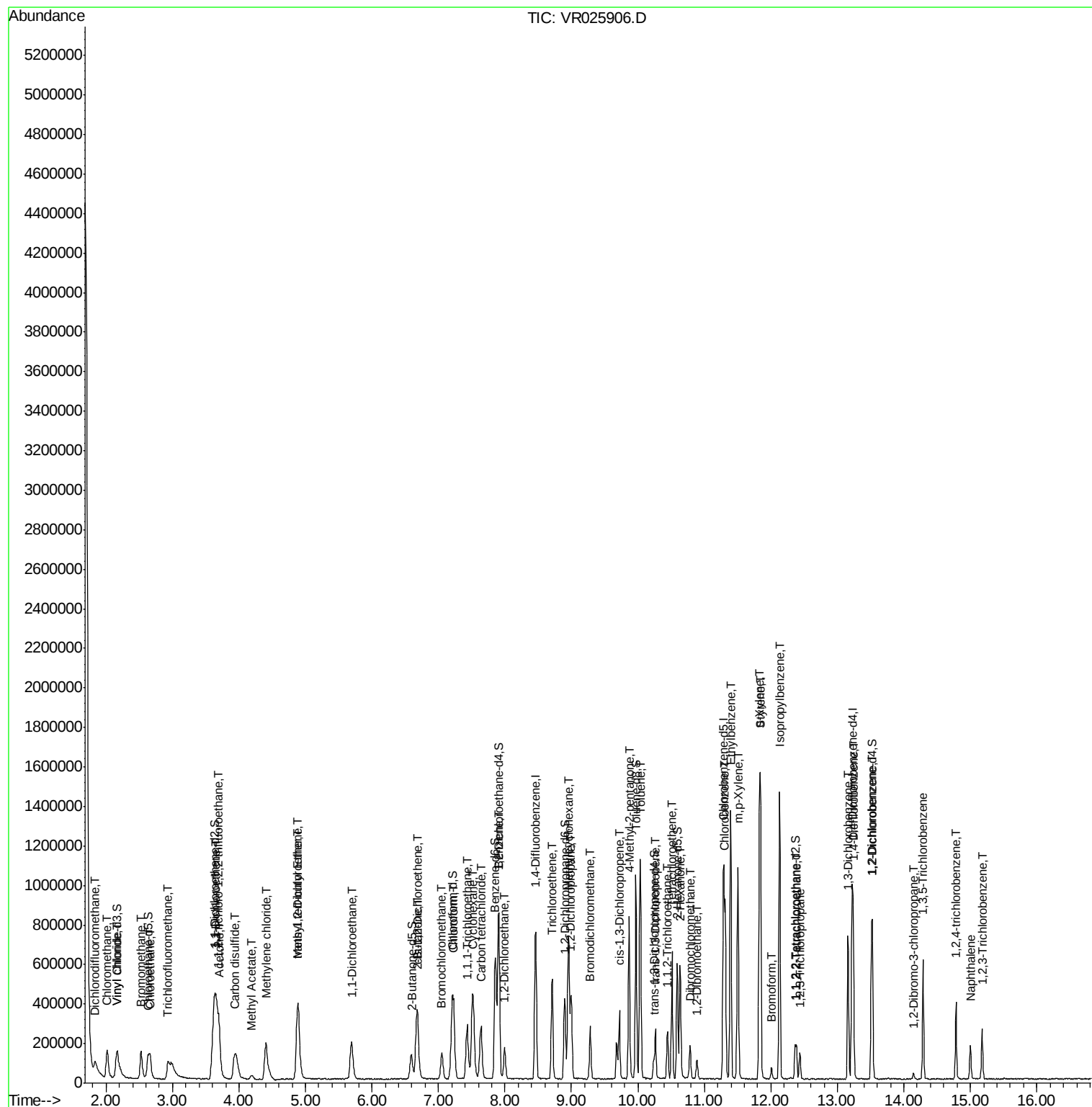
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 23) Bromochloromethane         | 7.06  | 128  | 39566    | 4.426  | ug/L   | 88       |
| 25) Chloroform                 | 7.23  | 83   | 279553   | 4.428  | ug/L   | 100      |
| 27) 1,2-Dichloroethane         | 7.99  | 62   | 141144   | 4.480  | ug/L # | 95       |
| 29) 1,1,1-Trichloroethane      | 7.43  | 97   | 227972   | 4.443  | ug/L   | 98       |
| 30) Cyclohexane                | 7.52  | 56   | 272716   | 4.254  | ug/L   | 97       |
| 31) Carbon tetrachloride       | 7.63  | 117  | 201169   | 4.528  | ug/L   | 98       |
| 33) Benzene                    | 7.91  | 78   | 667203   | 4.360  | ug/L   | 100      |
| 34) Trichloroethene            | 8.71  | 95   | 168754   | 4.185  | ug/L   | 92       |
| 35) Methylcyclohexane          | 8.95  | 83   | 269413   | 4.444  | ug/L   | 97       |
| 37) 1,2-Dichloropropane        | 9.00  | 63   | 142136   | 4.330  | ug/L   | 99       |
| 38) Bromodichloromethane       | 9.28  | 83   | 157216   | 4.439  | ug/L   | 91       |
| 39) cis-1,3-Dichloropropene    | 9.72  | 75   | 169573   | 4.607  | ug/L   | 95       |
| 40) 4-Methyl-2-pentanone       | 9.87  | 43   | 522225   | 45.240 | ug/L   | 97       |
| 42) Toluene                    | 10.04 | 91   | 702113   | 4.415  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 10.26 | 75   | 111727   | 4.649  | ug/L   | 92       |
| 45) 1,1,2-Trichloroethane      | 10.45 | 97   | 64030    | 4.312  | ug/L   | 95       |
| 47) Tetrachloroethene          | 10.51 | 164  | 105812   | 4.259  | ug/L   | 94       |
| 48) 2-Hexanone                 | 10.63 | 43   | 339612   | 44.935 | ug/L   | 99       |
| 49) Dibromochloromethane       | 10.79 | 129  | 68692    | 4.558  | ug/L   | 98       |
| 50) 1,2-Dibromoethane          | 10.89 | 107  | 52986    | 4.522  | ug/L   | 90       |
| 51) Chlorobenzene              | 11.32 | 112  | 376222   | 4.460  | ug/L   | 94       |
| 52) Ethylbenzene               | 11.39 | 91   | 818118   | 4.508  | ug/L   | 98       |
| 53) m,p-Xylene                 | 11.50 | 106  | 293295   | 4.539  | ug/L   | 87       |
| 54) o-Xylene                   | 11.83 | 106  | 267719   | 4.451  | ug/L   | 99       |
| 55) Styrene                    | 11.84 | 104  | 418910   | 4.475  | ug/L   | 93       |
| 56) Isopropylbenzene           | 12.13 | 105  | 761762   | 4.592  | ug/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.39 | 83   | 59462    | 4.156  | ug/L   | 88       |
| 59) 1,2,3-Trichloropropane     | 12.43 | 75   | 46152    | 4.334  | ug/L   | 96       |
| 61) Bromoform                  | 12.01 | 173  | 22496    | 4.402  | ug/L   | 100      |
| 62) 1,3-Dichlorobenzene        | 13.16 | 146  | 212027   | 4.292  | ug/L   | 94       |
| 63) 1,4-Dichlorobenzene        | 13.24 | 146  | 218551   | 4.324  | ug/L   | 95       |
| 65) 1,2-Dichlorobenzene        | 13.53 | 146  | 166946   | 4.206  | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 14.14 | 75   | 6972     | 4.177  | ug/L # | 75       |
| 67) 1,3,5-Trichlorobenzene     | 14.29 | 180  | 133892   | 4.550  | ug/L   | 93       |
| 68) 1,2,4-trichlorobenzene     | 14.78 | 180  | 80370    | 4.284  | ug/L   | 98       |
| 69) Naphthalene                | 15.00 | 128  | 103691   | 4.331  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.18 | 180  | 56120    | 4.312  | ug/L   | 96       |
| -----                          |       |      |          |        |        |          |

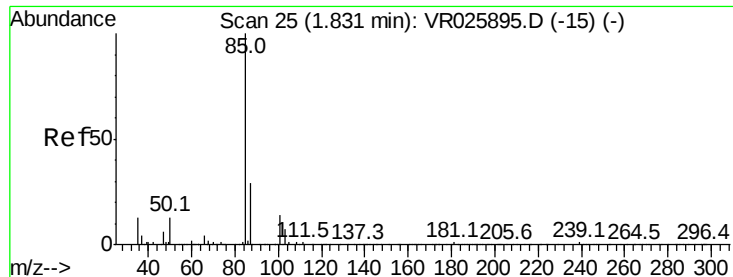
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.108 ug/L

RT: 1.84 min Scan# 26

Delta R.T. 0.01 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

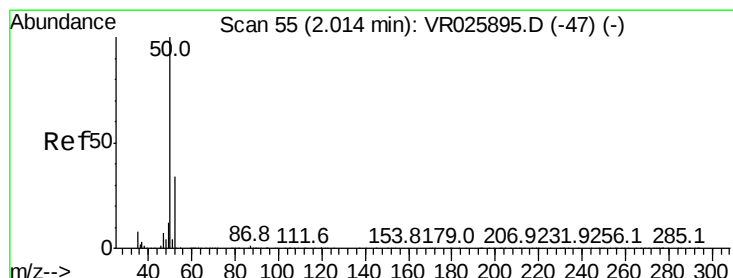
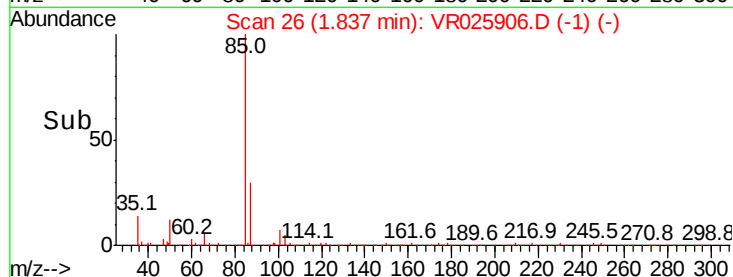
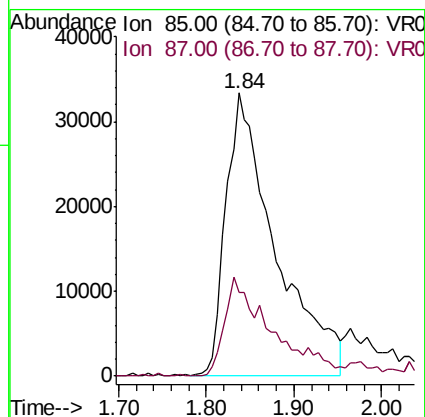
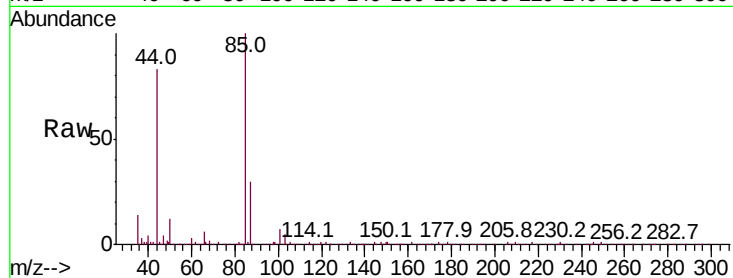
Instrument :  
MSVOA\_R  
ClientSampleId :

Tot Ion: 85 Resp: 130987

Ion Ratio Lower Upper

85 100

87 28.7 25.1 37.7



#3

Chloromethane

Concen: 4.381 ug/L

RT: 2.01 min Scan# 55

Delta R.T. -0.00 min

Lab File: VR025906.D

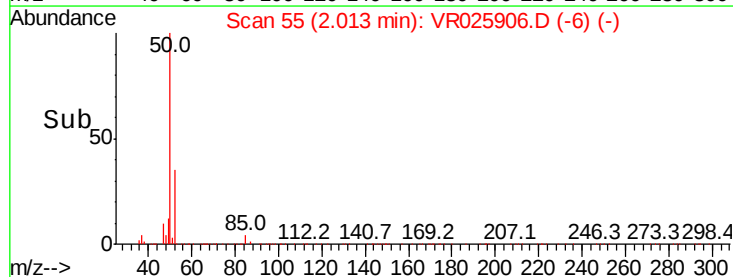
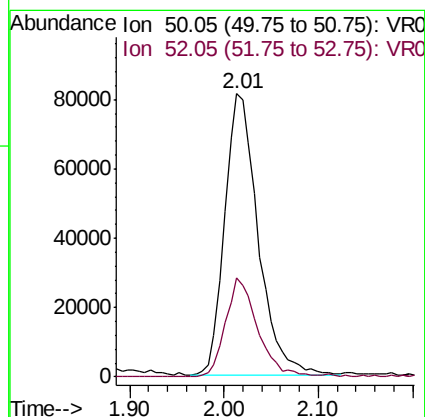
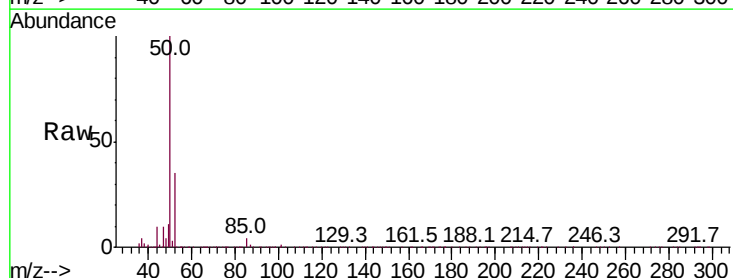
Acq: 28 Sep 2018 18:03

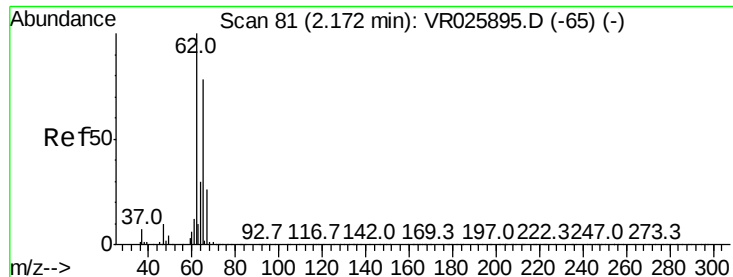
Tgt Ion: 50 Resp: 198615

Ion Ratio Lower Upper

50 100

52 34.9 22.1 41.1





#5

Vinyl chloride

Concen: 4.170 ug/L

RT: 2.17 min Scan# 81

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

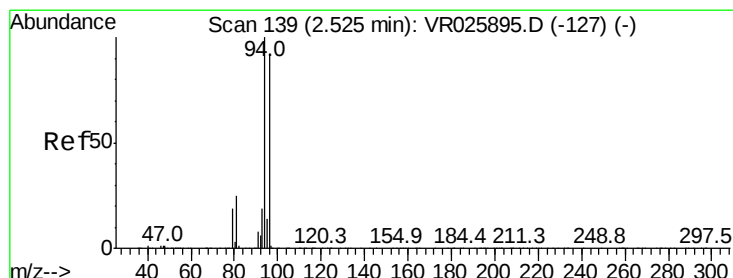
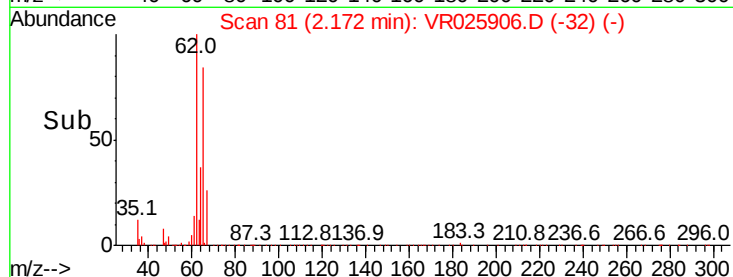
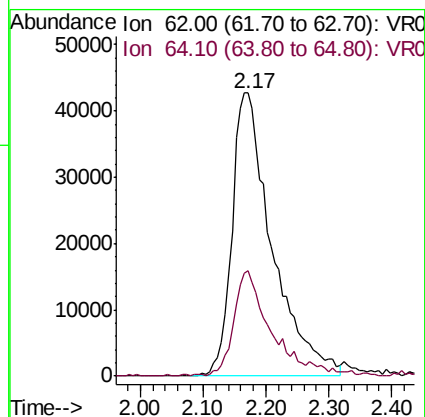
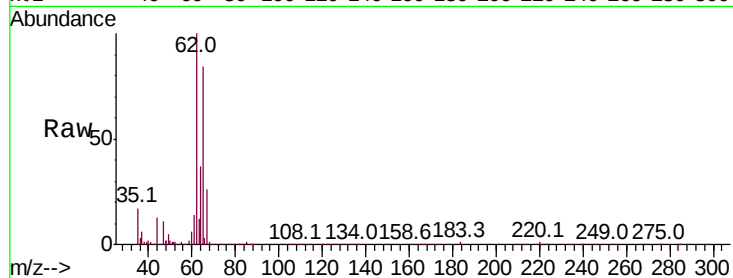
ClientSampled :

Tot Ion: 62 Resp: 188149

Ion Ratio Lower Upper

62 100

64 37.3 23.5 43.7



#6

Bromomethane

Concen: 4.444 ug/L

RT: 2.52 min Scan# 139

Delta R.T. -0.00 min

Lab File: VR025906.D

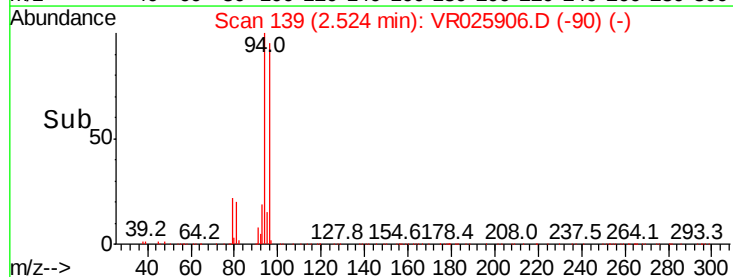
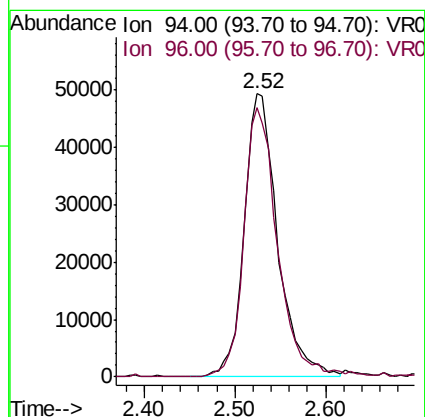
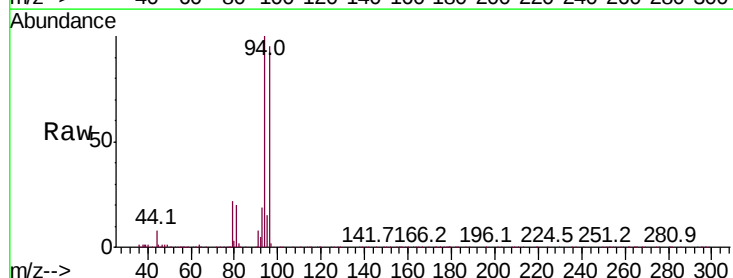
Acq: 28 Sep 2018 18:03

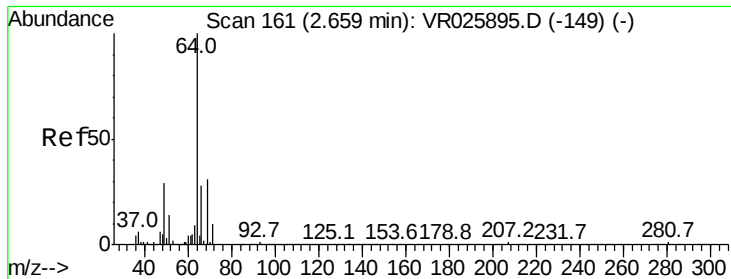
Tgt Ion: 94 Resp: 125188

Ion Ratio Lower Upper

94 100

96 95.1 66.1 122.8





#8

Chloroethane

Concen: 4.747 ug/L

RT: 2.66 min Scan# 162

Delta R.T. 0.01 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

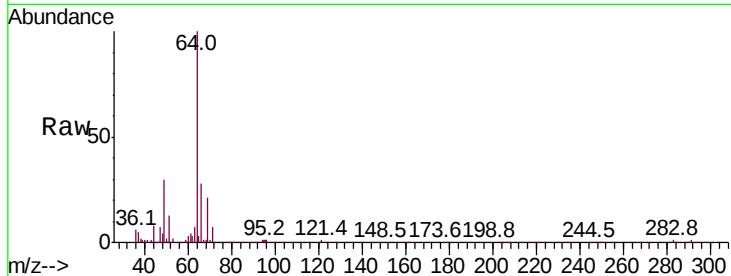
ClientSampleId :

Tot Ion: 64 Resp: 121883

Ion Ratio Lower Upper

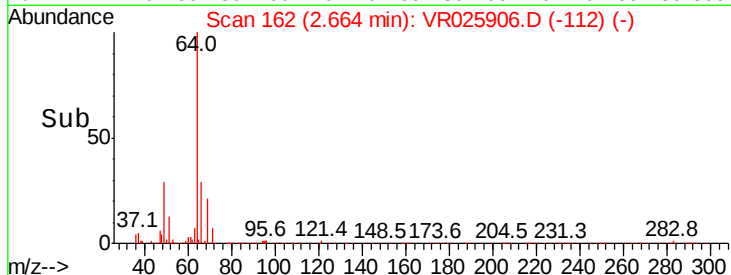
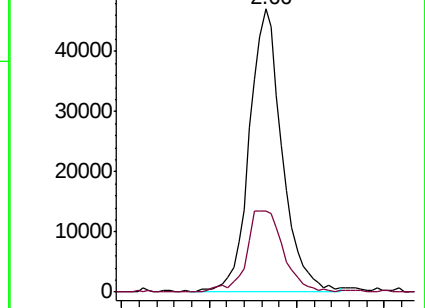
64 100

66 28.5 21.3 39.5

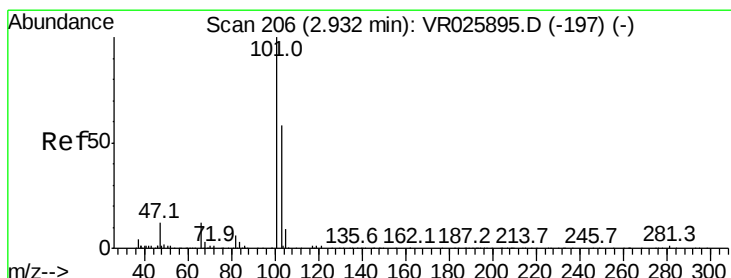


Abundance Ion 64.10 (63.80 to 64.80): VR0

Ion 66.05 (65.75 to 66.75): VR0



Time-->



#9

Trichlorofluoromethane

Concen: 1.598 ug/L

RT: 2.94 min Scan# 207

Delta R.T. 0.01 min

Lab File: VR025906.D

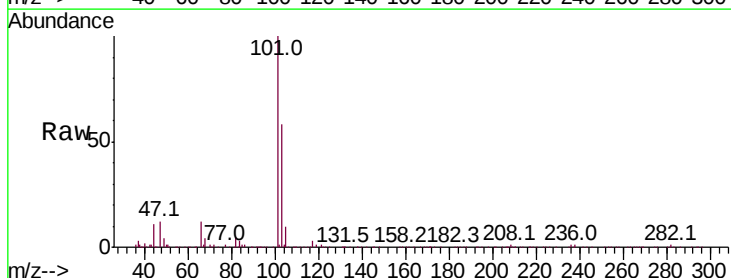
Acq: 28 Sep 2018 18:03

Tgt Ion: 101 Resp: 100131

Ion Ratio Lower Upper

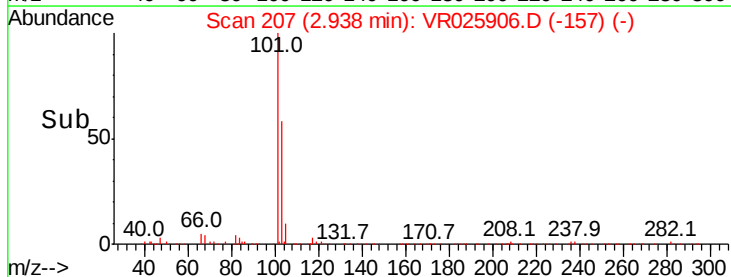
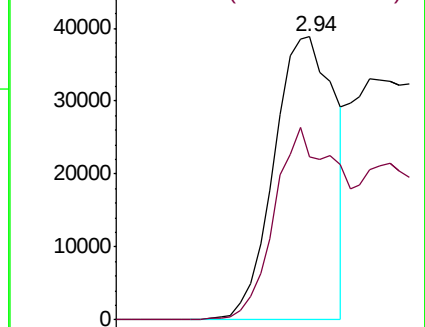
101 100

103 72.2 22.1 33.1#

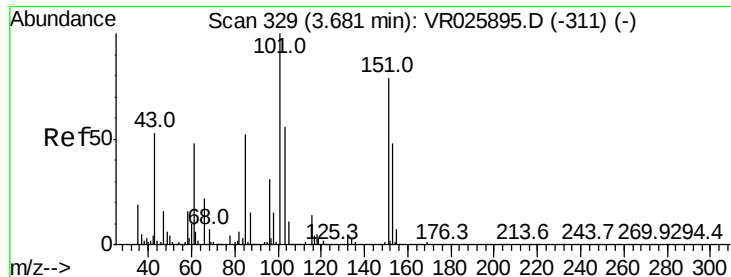


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->



#10

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

Concen: 4.607 ug/L

RT: 3.69 min Scan# 331

Delta R.T. 0.01 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

ClientSampleId :

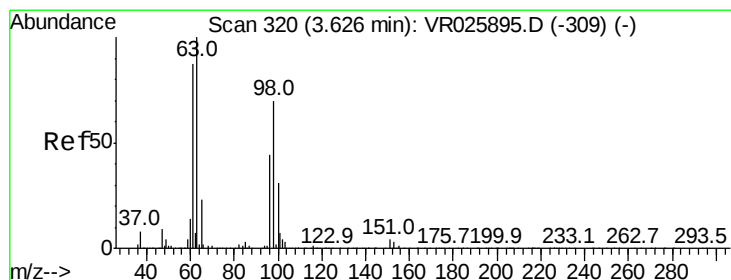
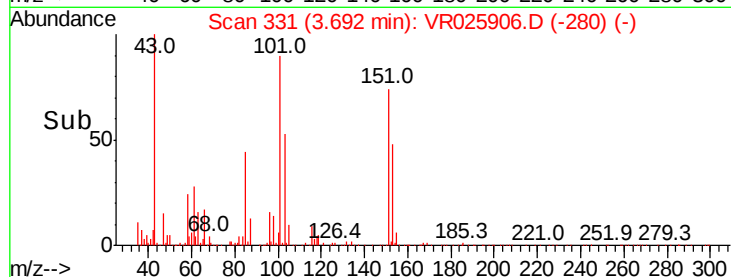
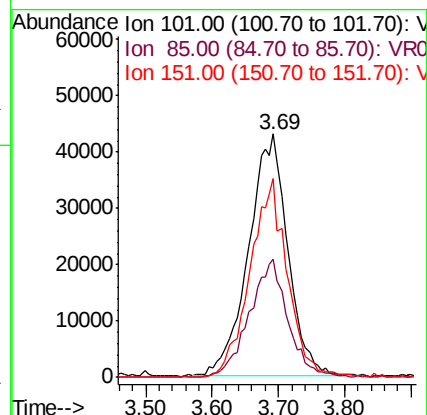
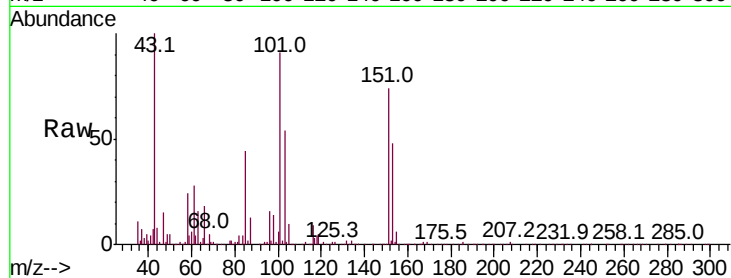
Tot Ion:101 Resp: 176441

Ion Ratio Lower Upper

101 100

85 47.7 38.2 57.4

151 77.8 58.4 87.6



#12

1,1-Dichloroethene

Concen: 4.639 ug/L

RT: 3.65 min Scan# 324

Delta R.T. 0.02 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

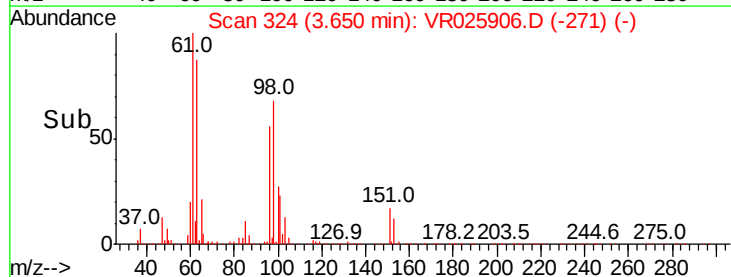
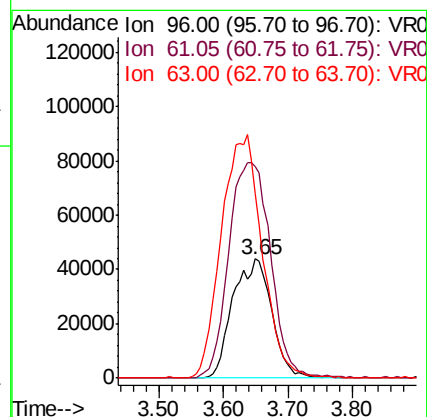
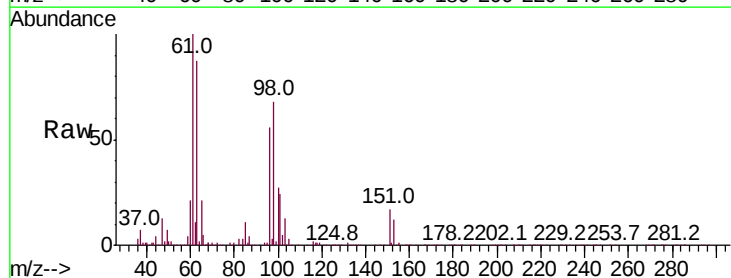
Tgt Ion: 96 Resp: 183669

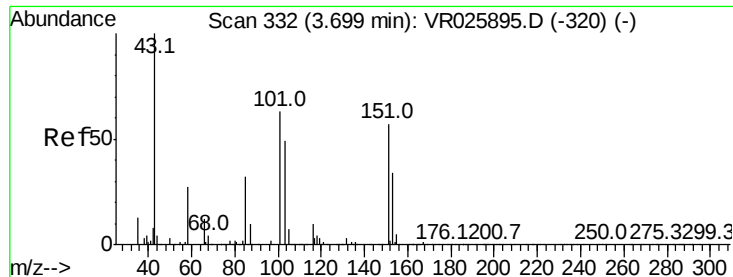
Ion Ratio Lower Upper

96 100

61 178.5 145.0 269.4

63 155.7 123.8 230.0





#13

Acetone

Concen: 46.087 ug/L

RT: 3.70 min Scan# 333

Delta R.T. 0.01 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

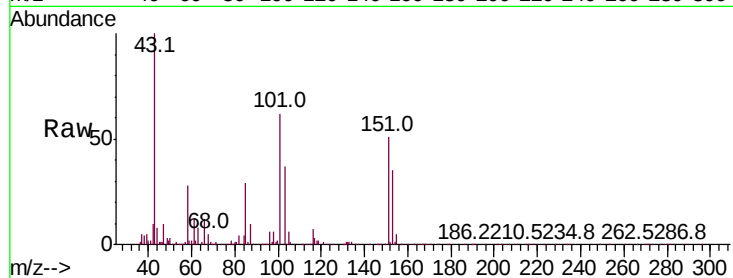
Instrument :  
MSVOA\_R  
ClientSampleId :

Tot Ion: 43 Resp: 154035

Ion Ratio Lower Upper

43 100

58 26.0 0.0 51.4



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0

60000

50000

40000

30000

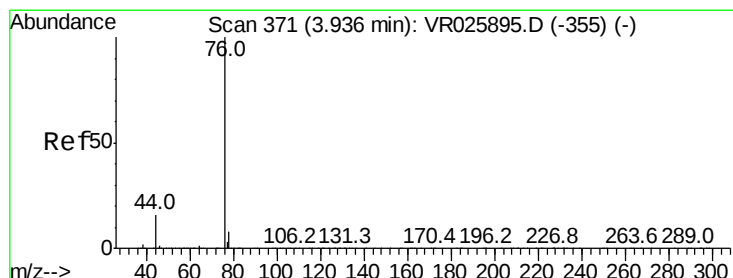
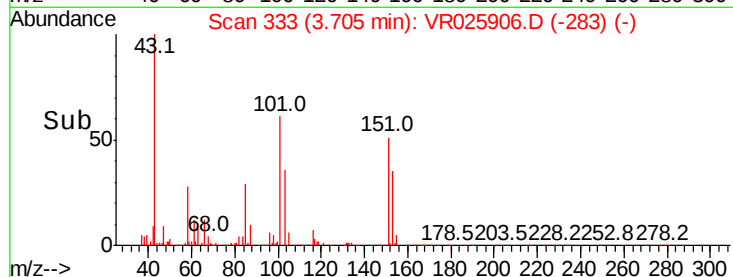
20000

10000

0

Time-->

3.60 3.70 3.80



#14

Carbon disulfide

Concen: 4.840 ug/L

RT: 3.95 min Scan# 373

Delta R.T. 0.01 min

Lab File: VR025906.D

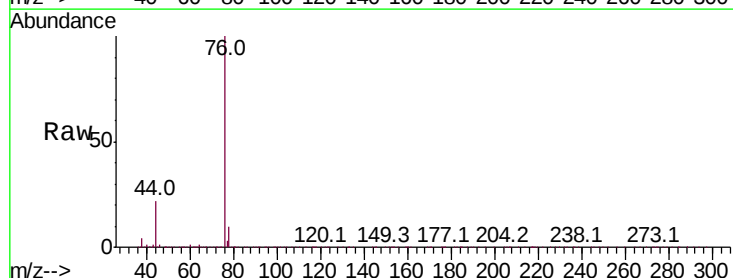
Acq: 28 Sep 2018 18:03

Tgt Ion: 76 Resp: 463948

Ion Ratio Lower Upper

76 100

78 9.8 7.0 10.6



Abundance Ion 76.05 (75.75 to 76.75): VR0

Ion 78.00 (77.70 to 78.70): VR0

100000

80000

60000

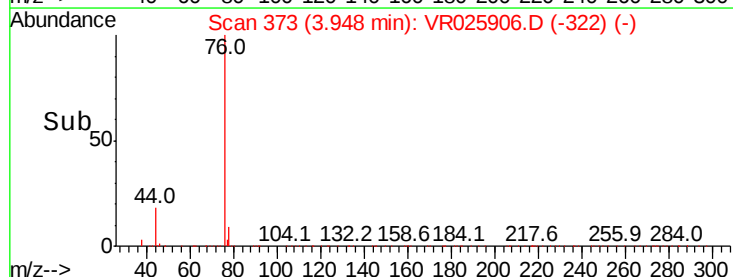
40000

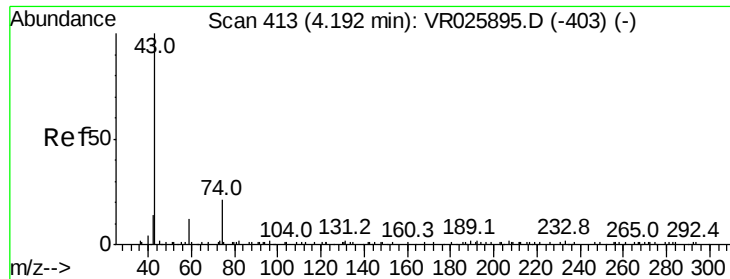
20000

0

Time-->

3.80 3.90 4.00 4.10

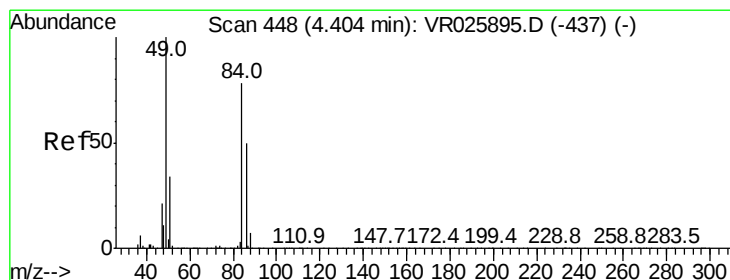
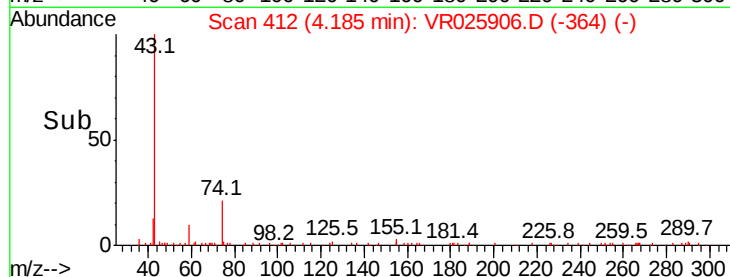
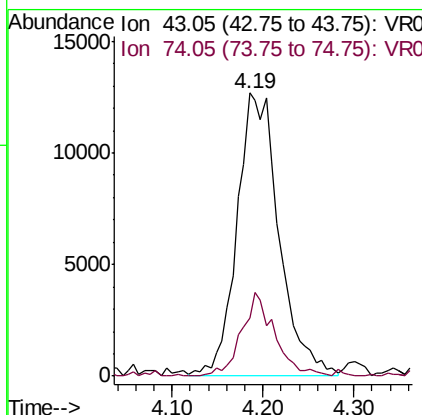
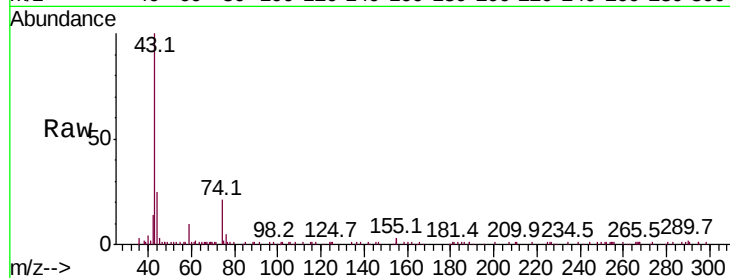




#15  
Methyl Acetate  
Concen: 4.395 ug/L  
RT: 4.19 min Scan# 412  
Delta R.T. -0.01 min  
Lab File: VR025906.D  
Acq: 28 Sep 2018 18:03

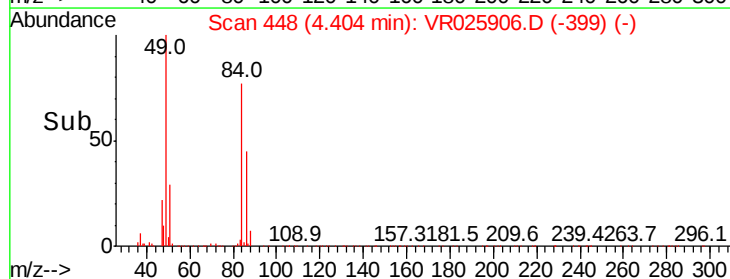
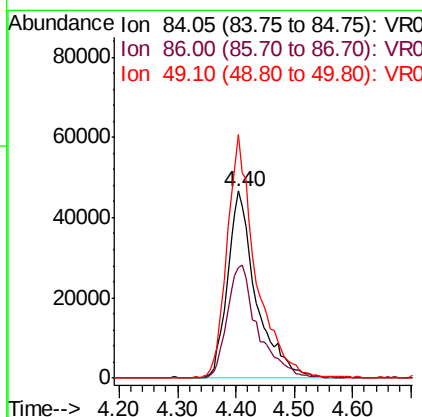
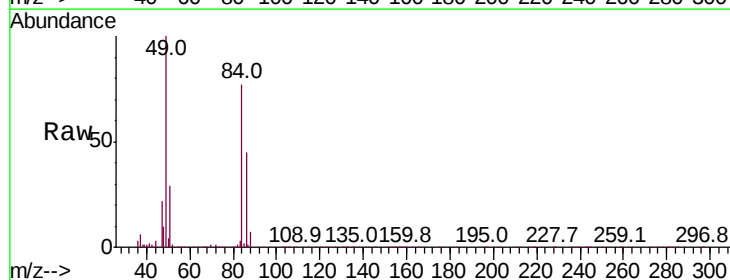
Instrument :  
MSVOA\_R  
ClientSampleID :

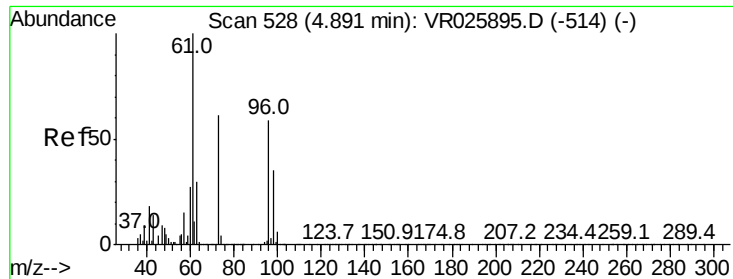
Tot Ion: 43 Resp: 40732  
Ion Ratio Lower Upper  
43 100  
74 23.5 19.0 28.4



#16  
Methylene chloride  
Concen: 4.375 ug/L  
RT: 4.40 min Scan# 448  
Delta R.T. -0.00 min  
Lab File: VR025906.D  
Acq: 28 Sep 2018 18:03

Tgt Ion: 84 Resp: 159310  
Ion Ratio Lower Upper  
84 100  
86 59.1 43.1 80.1  
49 130.1 95.5 177.3



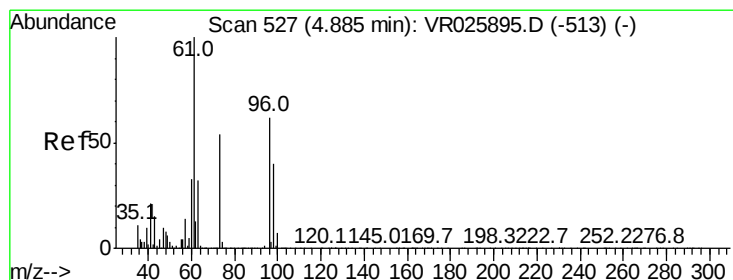
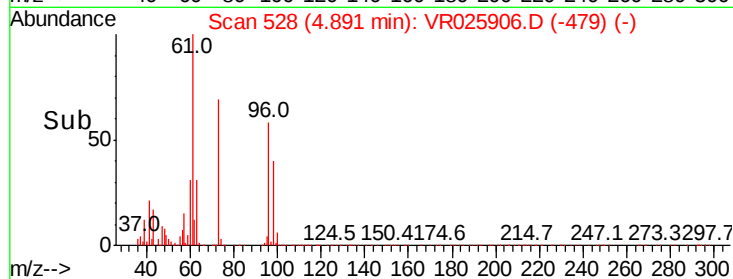
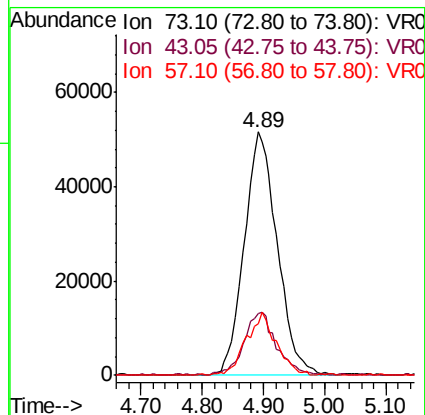
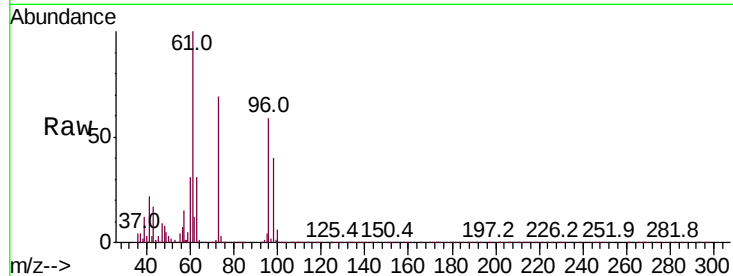


#17

Methvl tert-butvl Ether  
 Concen: 4.422 ug/L  
 RT: 4.89 min Scan# 528  
 Delta R.T. -0.00 min  
 Lab File: VR025906.D  
 Acq: 28 Sep 2018 18:03

Instrument :  
 MSVOA\_R  
 ClientSampled :

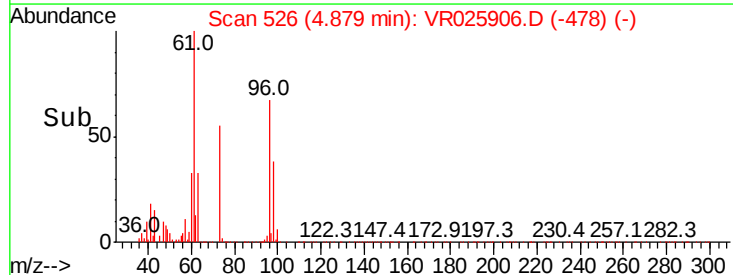
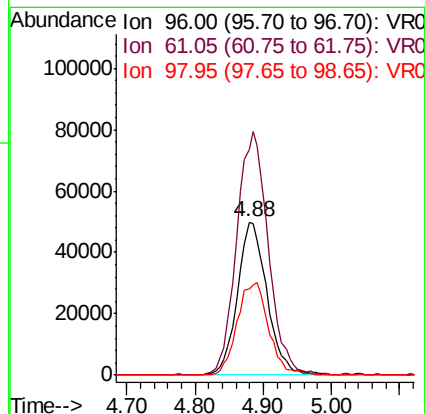
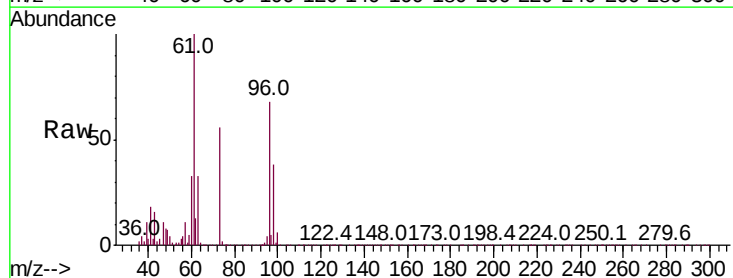
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 73    | Resp: | 193886 |
| Ion      | Ratio | Lower | Upper  |
| 73       | 100   |       |        |
| 43       | 25.2  | 19.8  | 29.8   |
| 57       | 23.1  | 17.9  | 26.9   |

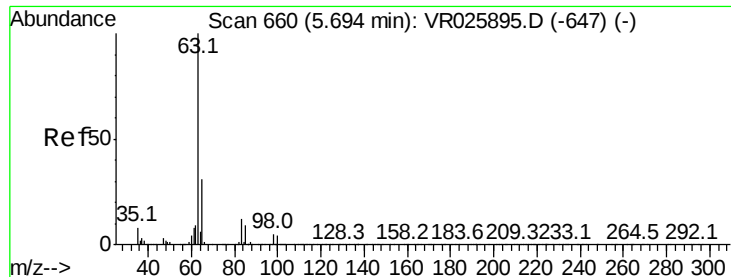


#18

trans-1,2-Dichloroethene  
 Concen: 4.617 ug/L  
 RT: 4.88 min Scan# 526  
 Delta R.T. -0.01 min  
 Lab File: VR025906.D  
 Acq: 28 Sep 2018 18:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 151210 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 147.9 | 127.4 | 236.6  |
| 98       | 56.2  | 43.8  | 81.3   |

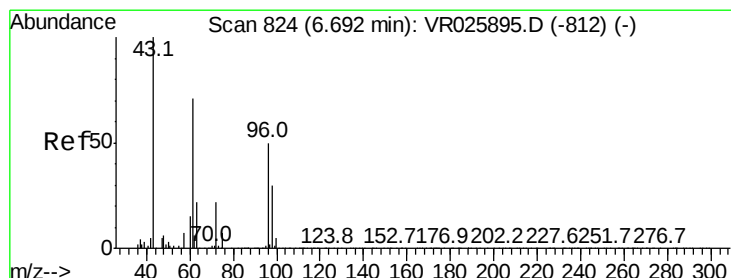
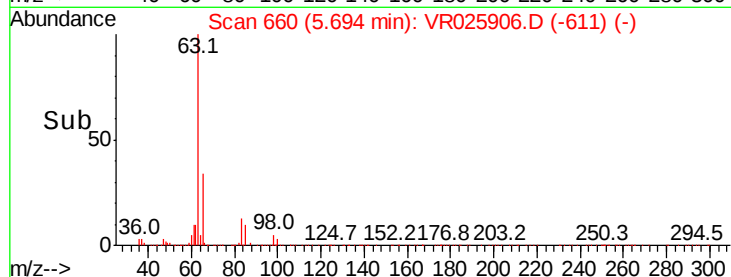
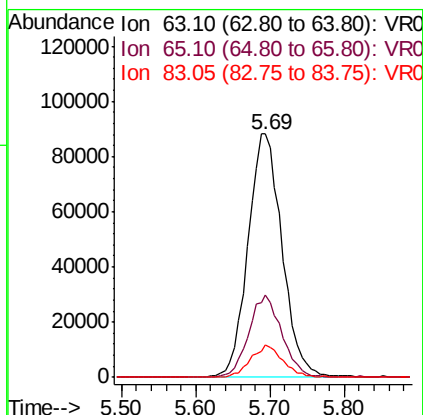
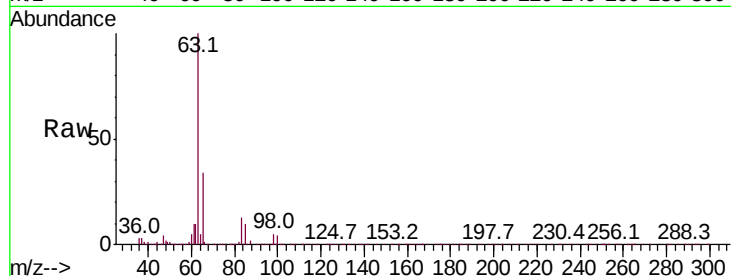




#19  
 1,1-Dichloroethane  
 Concen: 4.351 ug/L  
 RT: 5.69 min Scan# 660  
 Delta R.T. -0.00 min  
 Lab File: VR025906.D  
 Acq: 28 Sep 2018 18:03

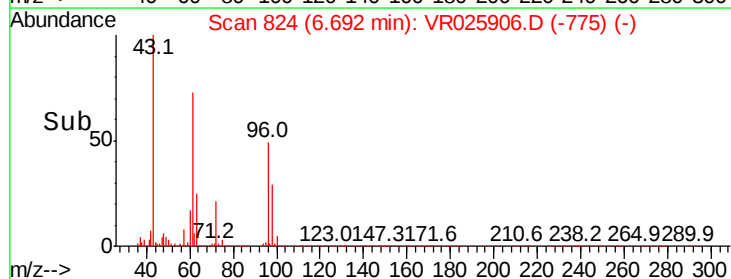
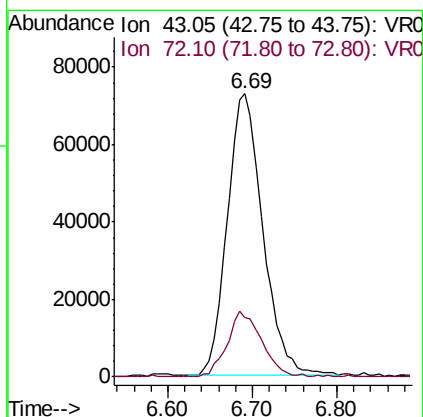
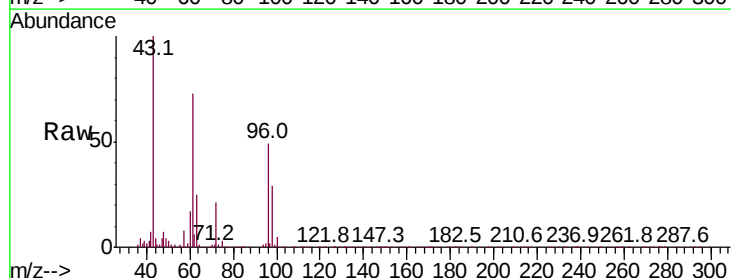
Instrument :  
 MSVOA\_R  
 ClientSampleId :

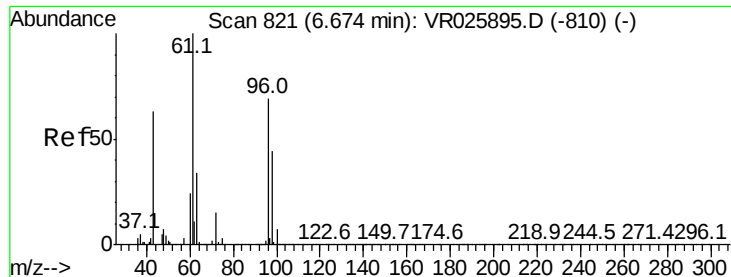
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 33.6  | 21.1  | 39.1  |
| 83      | 13.4  | 8.9   | 16.5  |



#21  
 2-Butanone  
 Concen: 45.191 ug/L  
 RT: 6.69 min Scan# 824  
 Delta R.T. -0.00 min  
 Lab File: VR025906.D  
 Acq: 28 Sep 2018 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 22.9  | 11.9  | 35.7  |



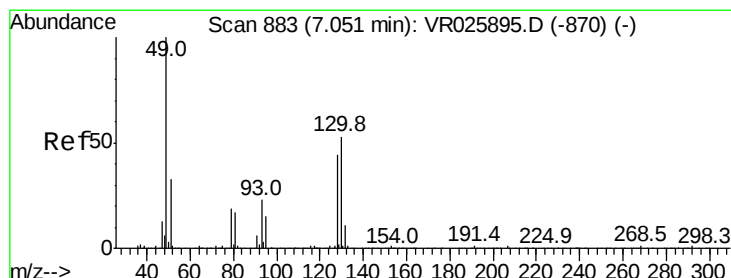
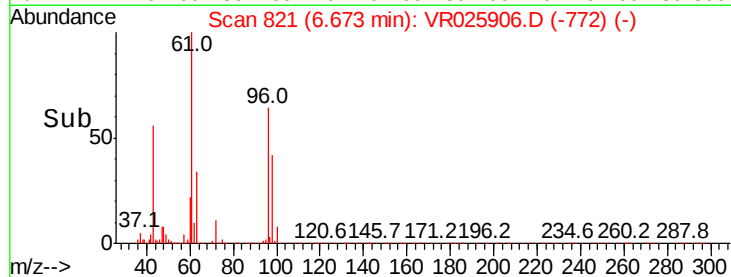
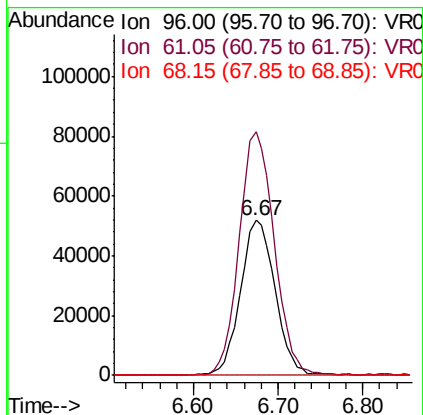
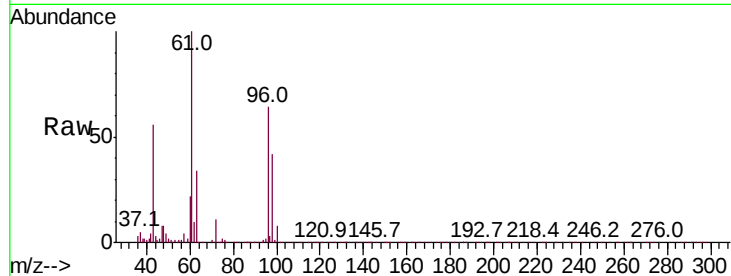


#22

cis-1,2-Dichloroethene  
Concen: 4.361 ug/L  
RT: 6.67 min Scan# 821  
Delta R.T. -0.00 min  
Lab File: VR025906.D  
Acq: 28 Sep 2018 18:03

Instrument :  
MSVOA\_R  
ClientSampled :

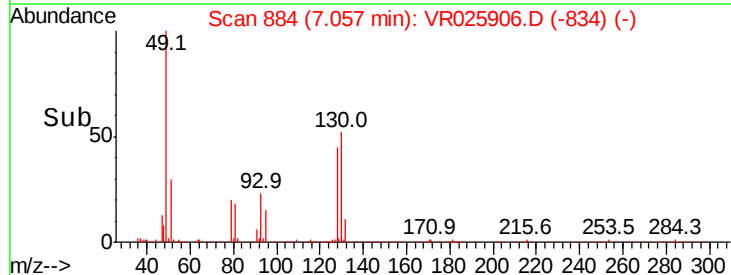
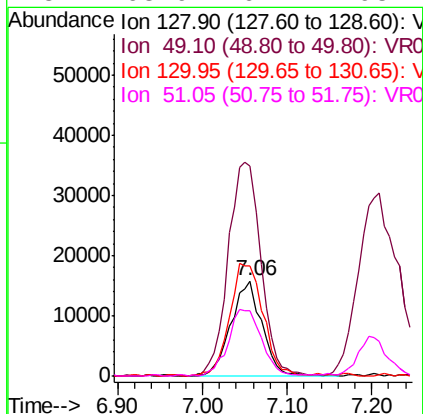
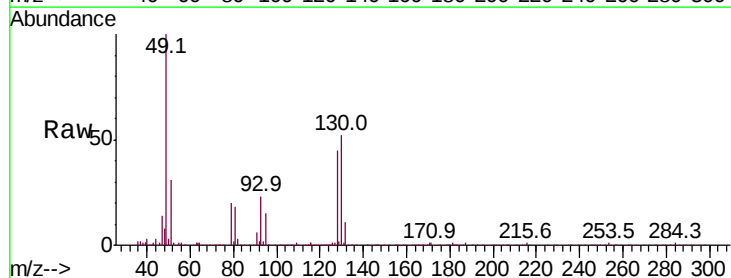
Tot Ion: 96 Resp: 143706  
Ion Ratio Lower Upper  
96 100  
61 157.1 108.7 201.9  
68 0.0 0.1 0.1#

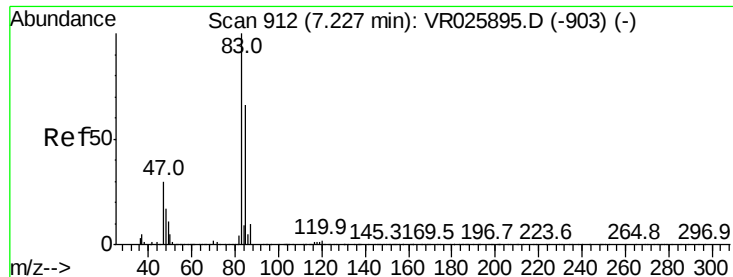


#23

Bromochloromethane  
Concen: 4.426 ug/L  
RT: 7.06 min Scan# 884  
Delta R.T. 0.01 min  
Lab File: VR025906.D  
Acq: 28 Sep 2018 18:03

Tgt Ion: 128 Resp: 39566  
Ion Ratio Lower Upper  
128 100  
49 221.6 175.0 325.0  
130 116.3 85.6 159.0  
51 68.9 62.2 93.2

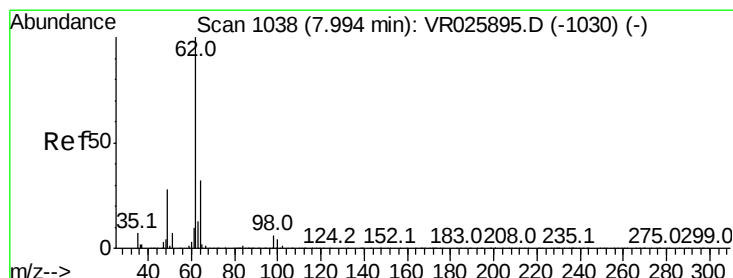
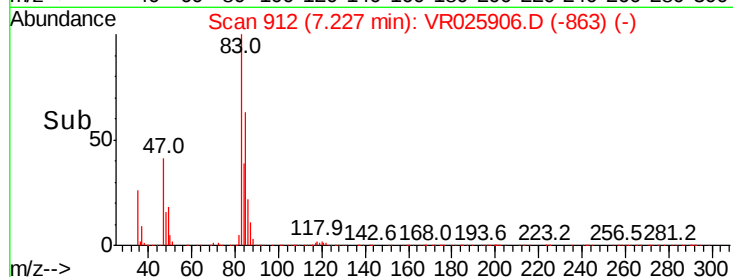
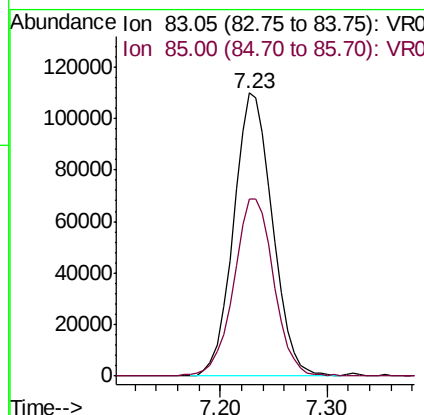
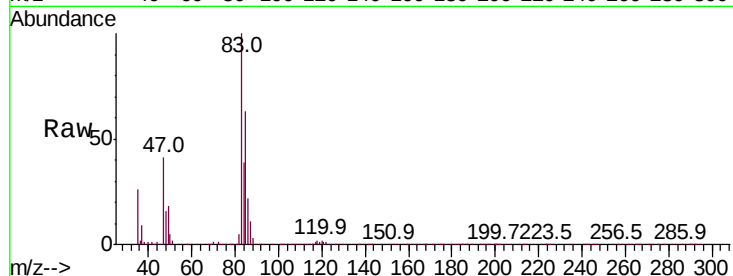




#25  
Chloroform  
Concen: 4.428 ug/L  
RT: 7.23 min Scan# 912  
Delta R.T. -0.00 min  
Lab File: VR025906.D  
Acq: 28 Sep 2018 18:03

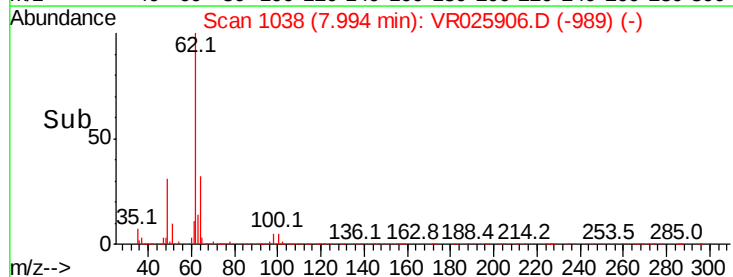
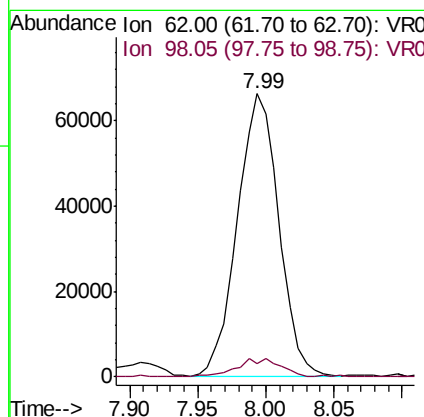
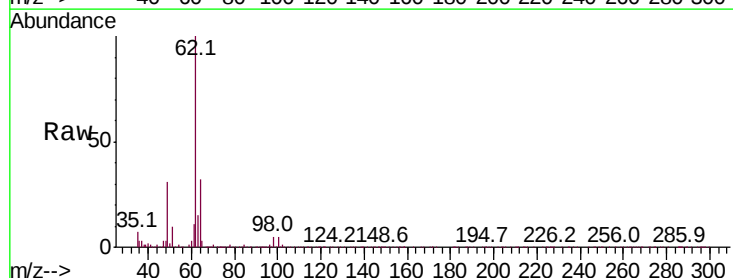
Instrument :  
MSVOA\_R  
ClientSampleId :

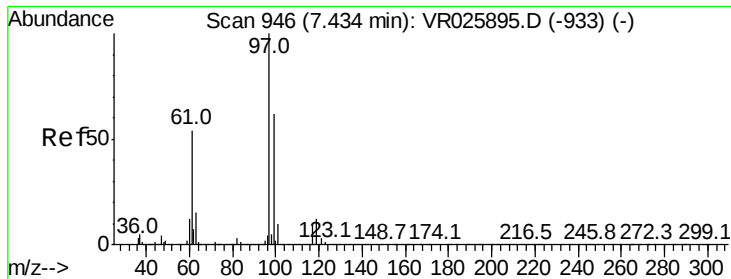
Tot Ion: 83 Resp: 279553  
Ion Ratio Lower Upper  
83 100  
85 62.8 43.8 81.4



#27  
1,2-Dichloroethane  
Concen: 4.480 ug/L  
RT: 7.99 min Scan# 1038  
Delta R.T. -0.00 min  
Lab File: VR025906.D  
Acq: 28 Sep 2018 18:03

Tgt Ion: 62 Resp: 141144  
Ion Ratio Lower Upper  
62 100  
98 4.9 5.2 7.8#





#29

1,1,1-Trichloroethane

Concen: 4.443 ug/L

RT: 7.43 min Scan# 946

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

ClientSampled :

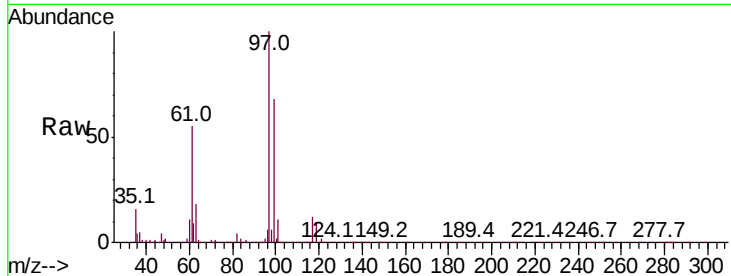
Tot Ion: 97 Resp: 227972

Ion Ratio Lower Upper

97 100

99 63.4 51.0 76.6

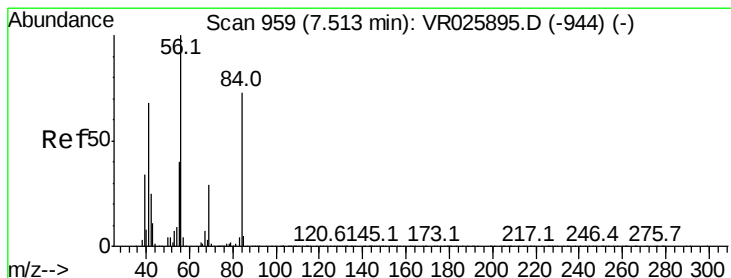
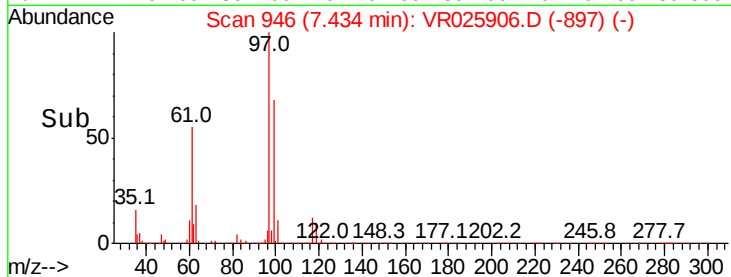
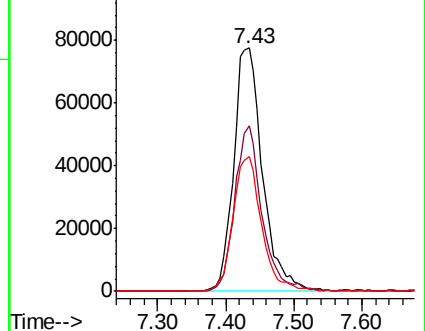
61 54.7 41.6 62.4



Abundance Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 61.05 (60.75 to 61.75): VR0



#30

Cyclohexane

Concen: 4.254 ug/L

RT: 7.52 min Scan# 960

Delta R.T. 0.01 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

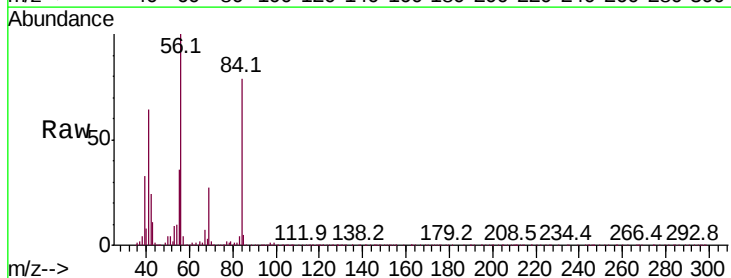
Tgt Ion: 56 Resp: 272716

Ion Ratio Lower Upper

56 100

69 29.4 24.8 37.2

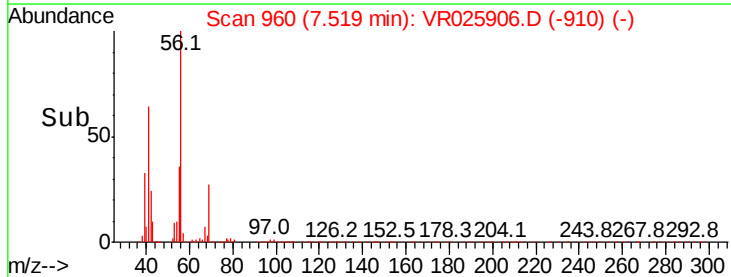
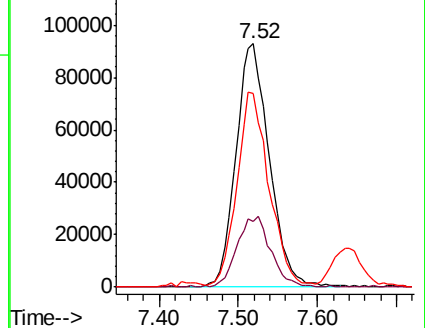
84 77.1 59.8 89.8

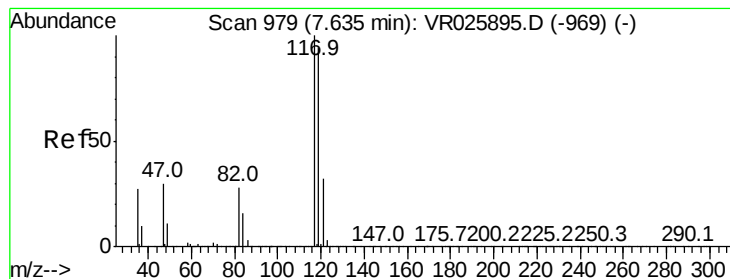


Abundance Ion 56.10 (55.80 to 56.80): VR0

Ion 69.15 (68.85 to 69.85): VR0

Ion 84.15 (83.85 to 84.85): VR0





#31

Carbon tetrachloride

Concen: 4.528 ug/L

RT: 7.63 min Scan# 979

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

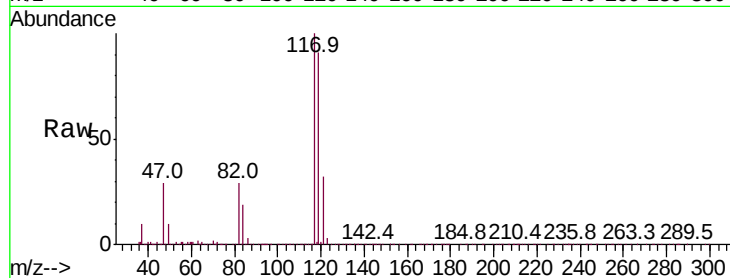
ClientSampleId :

Tot Ion:117 Resp: 201169

Ion Ratio Lower Upper

117 100

119 96.3 75.6 113.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

7.63

80000

60000

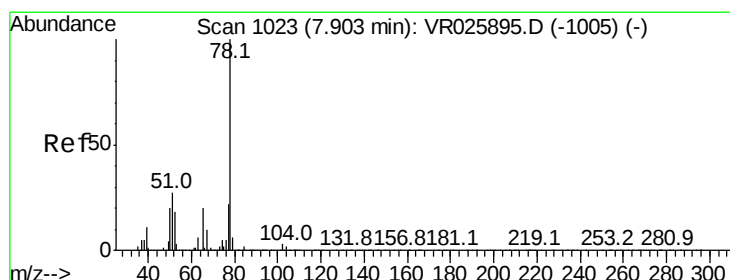
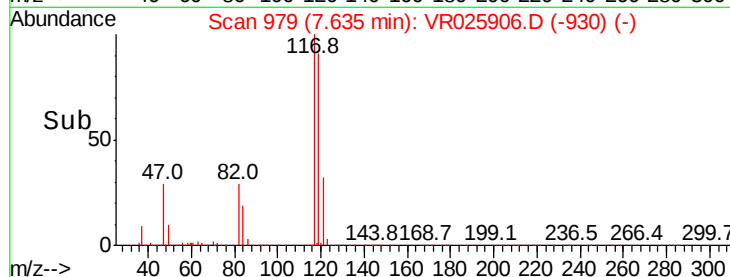
40000

20000

0

7.50 7.60 7.70 7.80

Time-->



#33

Benzene

Concen: 4.360 ug/L

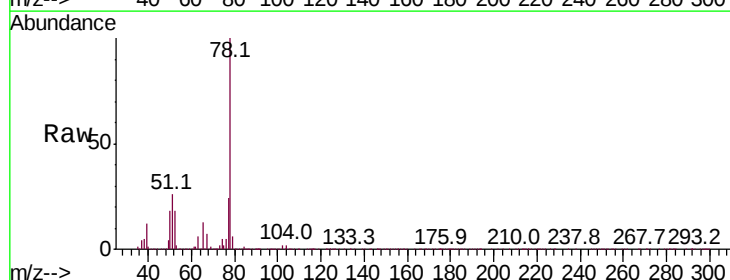
RT: 7.91 min Scan# 1024

Delta R.T. 0.01 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Tgt Ion: 78 Resp: 667203



Abundance Ion 78.10 (77.80 to 78.80): VR0

7.91

300000

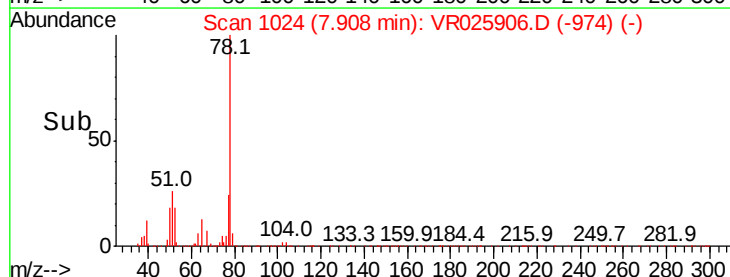
200000

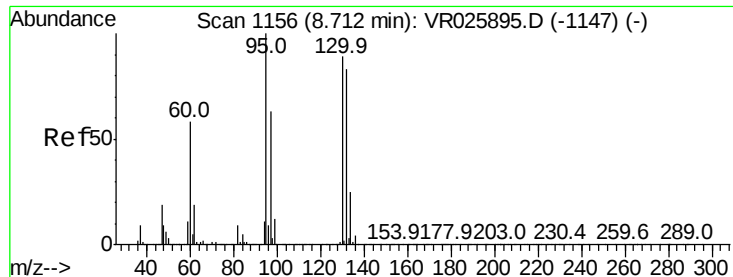
100000

0

7.80 7.90 8.00

Time-->





#34

Trichloroethene

Concen: 4.185 ug/L

RT: 8.71 min Scan# 1156

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

ClientSampleId :

Tot Ion: 95 Resp: 168754

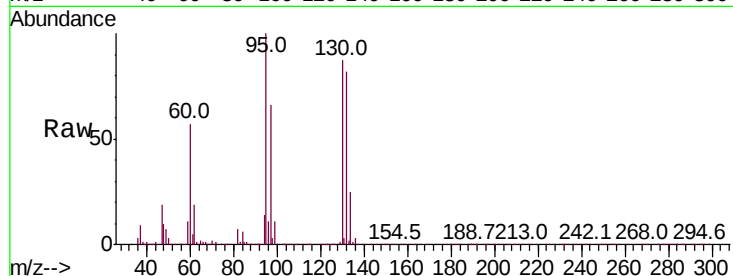
Ion Ratio Lower Upper

95 100

97 66.2 43.9 81.5

132 82.1 53.3 98.9

130 87.0 53.8 99.8

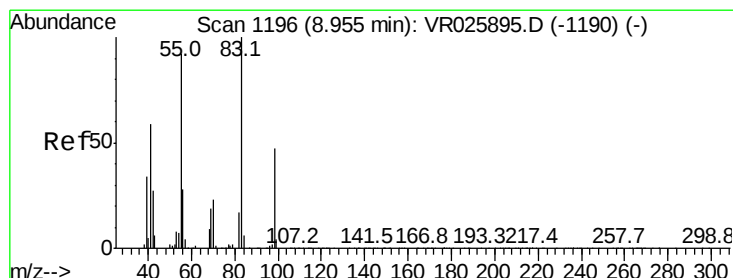
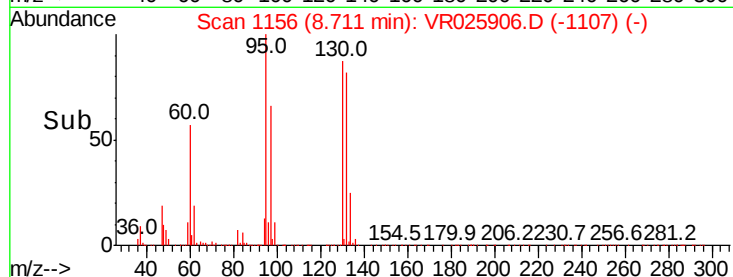
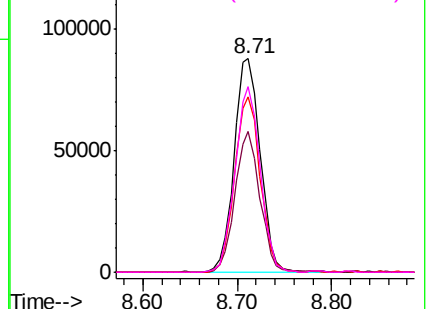


Abundance Ion 95.00 (94.70 to 95.70): VR0

Ion 96.95 (96.65 to 97.65): VR0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.444 ug/L

RT: 8.95 min Scan# 1196

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

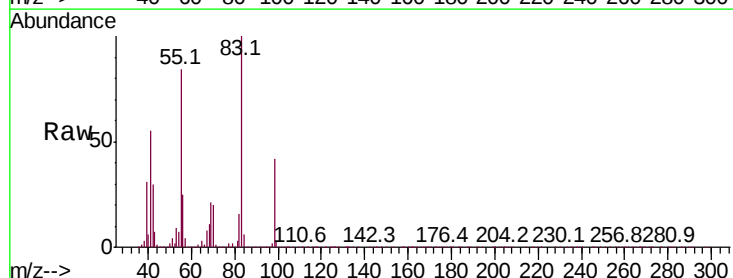
Tgt Ion: 83 Resp: 269413

Ion Ratio Lower Upper

83 100

55 86.3 71.8 107.6

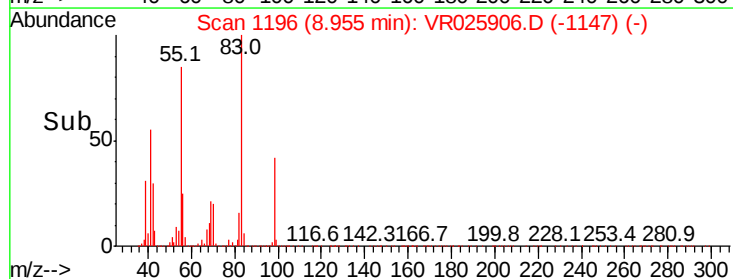
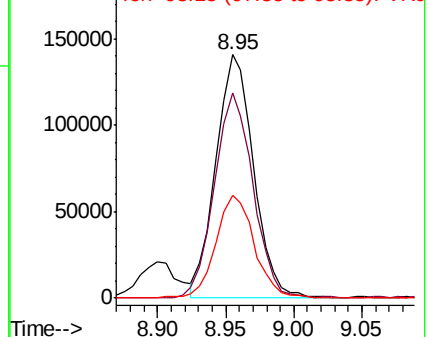
98 43.5 34.2 51.4

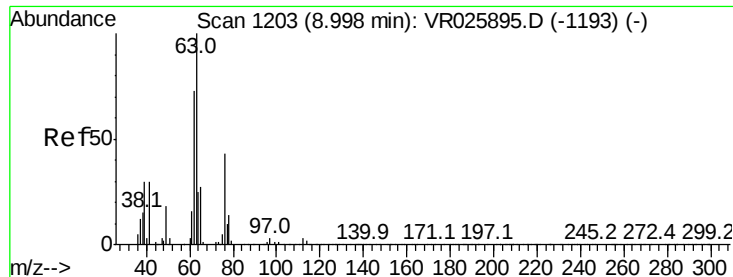


Abundance Ion 83.15 (82.85 to 83.85): VR0

Ion 55.10 (54.80 to 55.80): VR0

Ion 98.15 (97.85 to 98.85): VR0

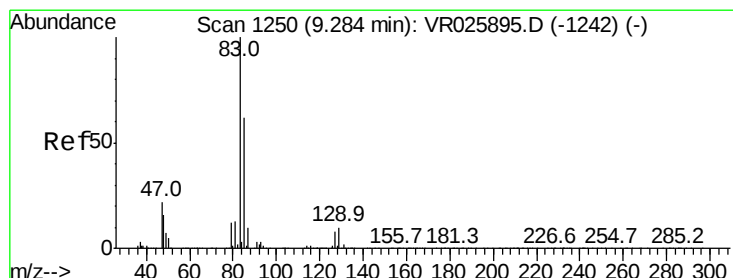
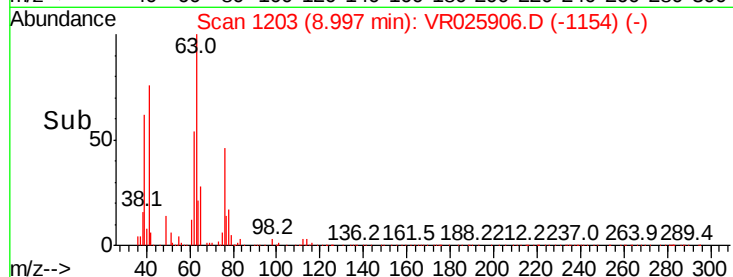
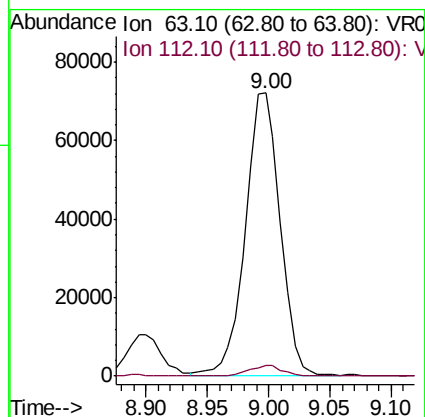
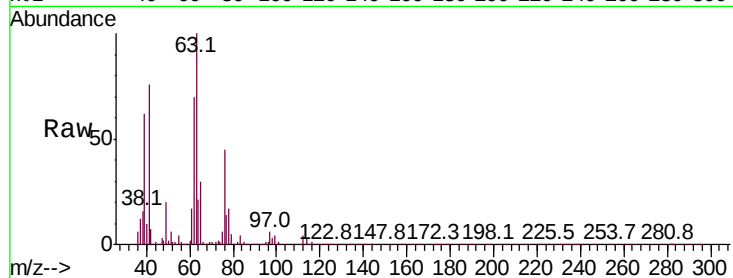




#37  
 1,2-Dichloropropane  
 Concen: 4.330 ug/L  
 RT: 9.00 min Scan# 1203  
 Delta R.T. -0.00 min  
 Lab File: VR025906.D  
 Acq: 28 Sep 2018 18:03

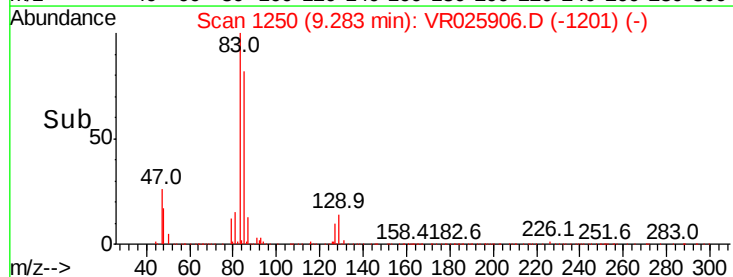
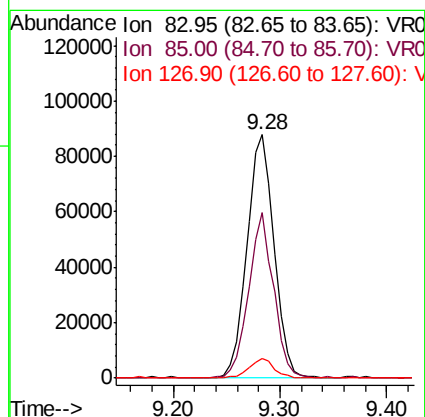
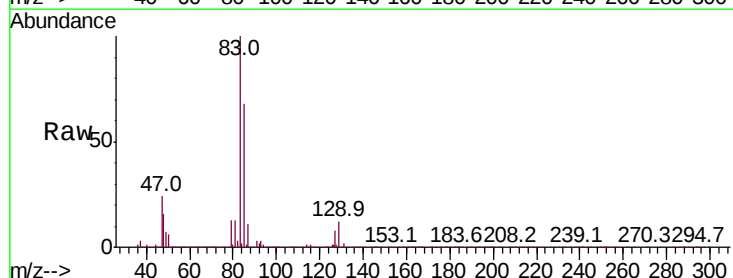
Instrument :  
 MSVOA\_R  
 ClientSampleId :

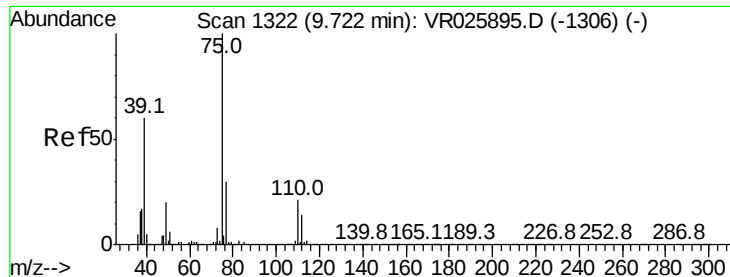
Tot Ion: 63 Resp: 142136  
 Ion Ratio Lower Upper  
 63 100  
 112 3.6 2.5 3.7



#38  
 Bromodichloromethane  
 Concen: 4.439 ug/L  
 RT: 9.28 min Scan# 1250  
 Delta R.T. -0.00 min  
 Lab File: VR025906.D  
 Acq: 28 Sep 2018 18:03

Tgt Ion: 83 Resp: 157216  
 Ion Ratio Lower Upper  
 83 100  
 85 68.1 42.8 79.4  
 127 8.1 5.6 8.4



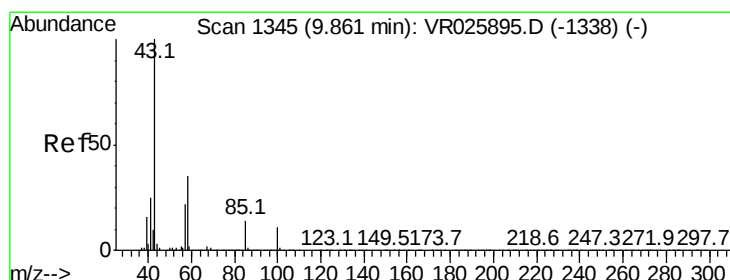
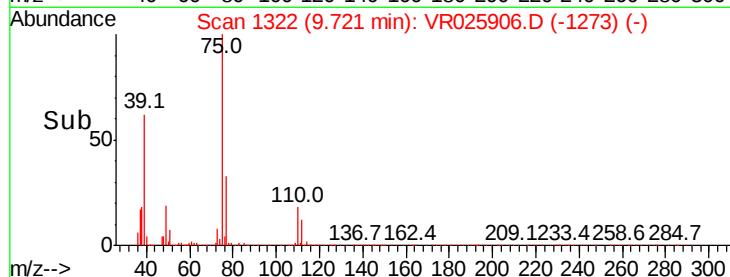
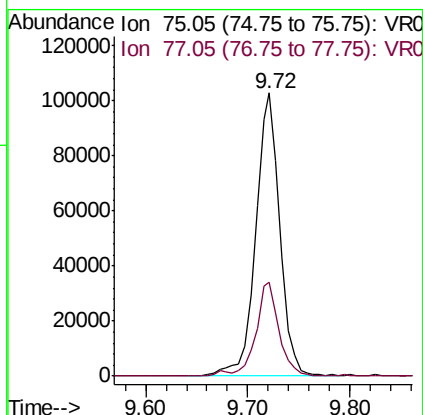
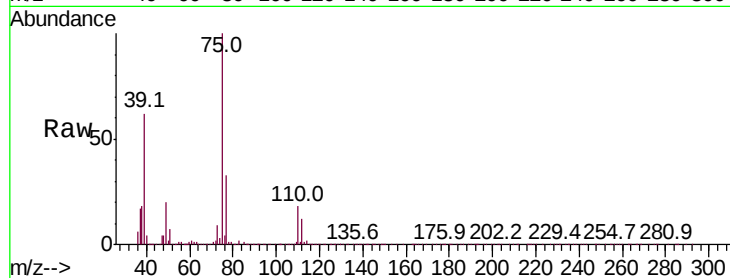


#39

cis-1,3-Dichloropropene  
Concen: 4.607 ug/L  
RT: 9.72 min Scan# 1322  
Delta R.T. -0.00 min  
Lab File: VR025906.D  
Acq: 28 Sep 2018 18:03

Instrument :  
MSVOA\_R  
ClientSampled :

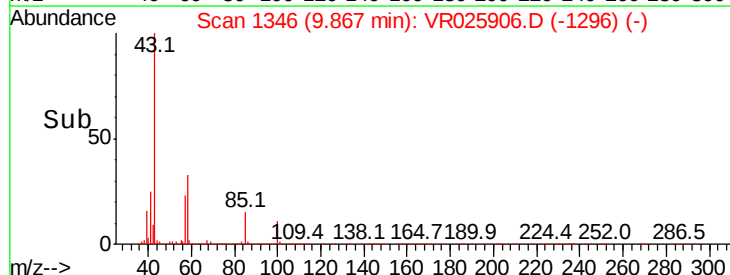
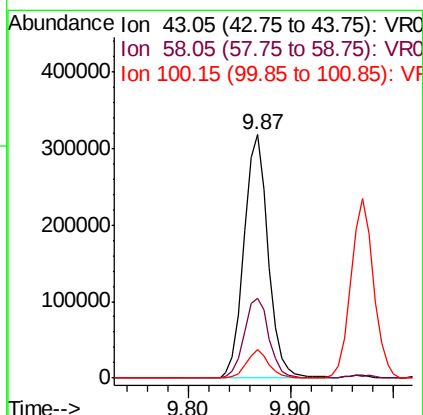
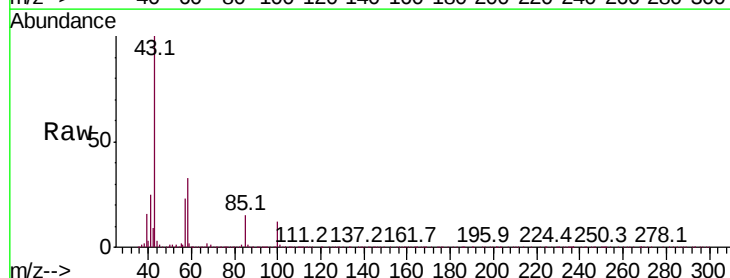
Tot Ion: 75 Resp: 169573  
Ion Ratio Lower Upper  
75 100  
77 33.2 21.5 39.9

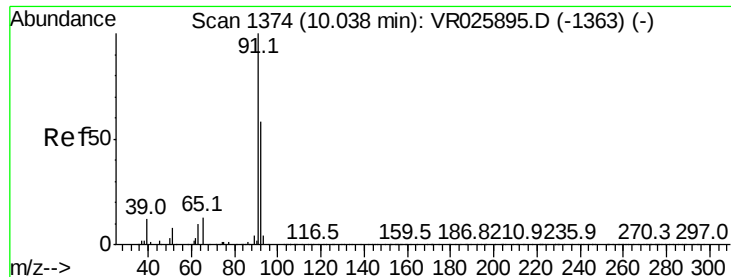


#40

4-Methyl-2-pentanone  
Concen: 45.240 ug/L  
RT: 9.87 min Scan# 1346  
Delta R.T. 0.01 min  
Lab File: VR025906.D  
Acq: 28 Sep 2018 18:03

Tgt Ion: 43 Resp: 522225  
Ion Ratio Lower Upper  
43 100  
58 33.9 28.6 43.0  
100 10.7 9.0 13.4





#42

Toluene

Concen: 4.415 ug/L

RT: 10.04 min Scan# 1374

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

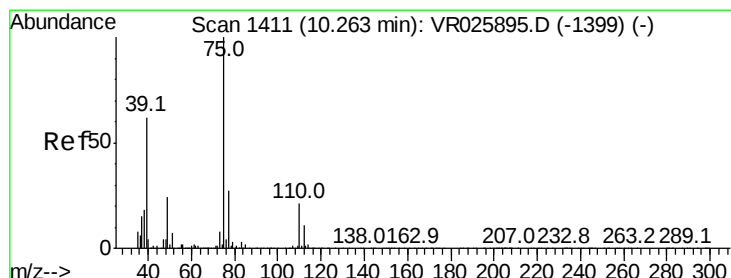
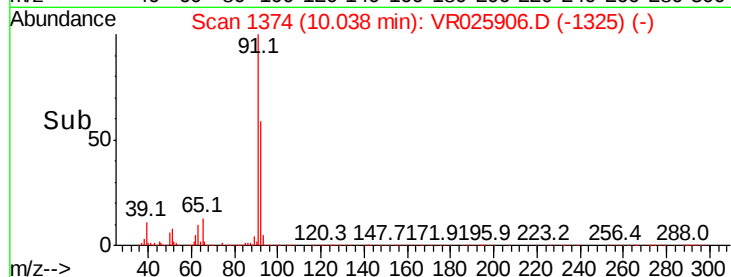
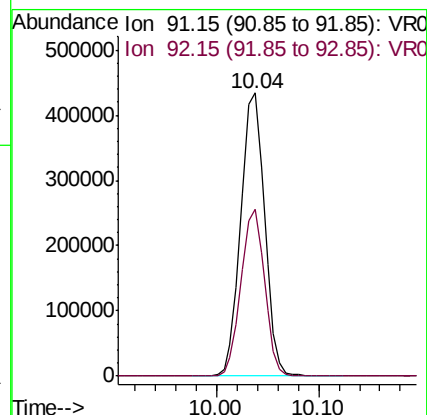
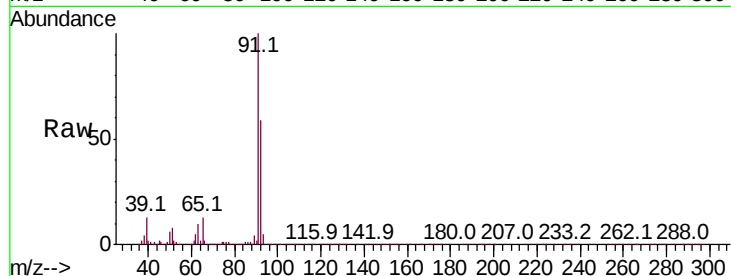
ClientSampled :

Tot Ion: 91 Resp: 702113

Ion Ratio Lower Upper

91 100

92 58.8 41.8 77.6



#44

trans-1,3-Dichloropropene

Concen: 4.649 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. -0.00 min

Lab File: VR025906.D

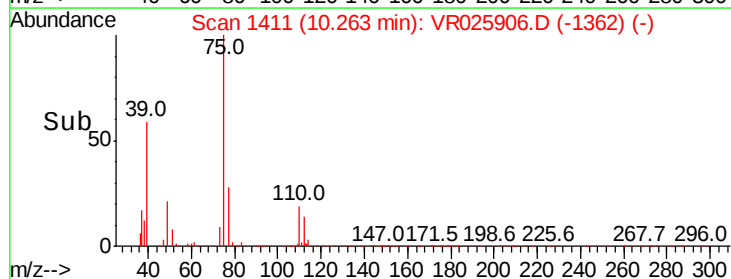
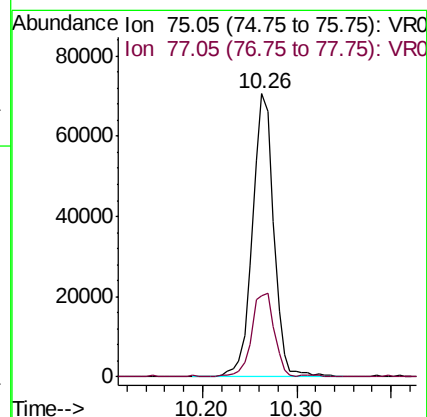
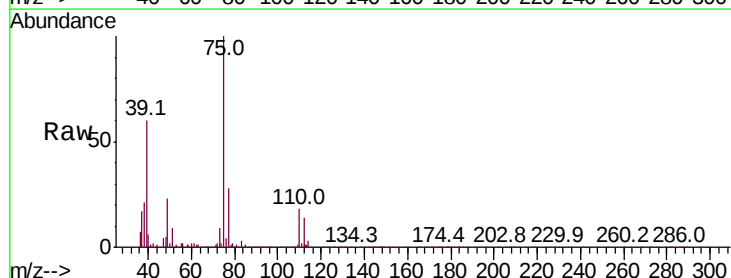
Acq: 28 Sep 2018 18:03

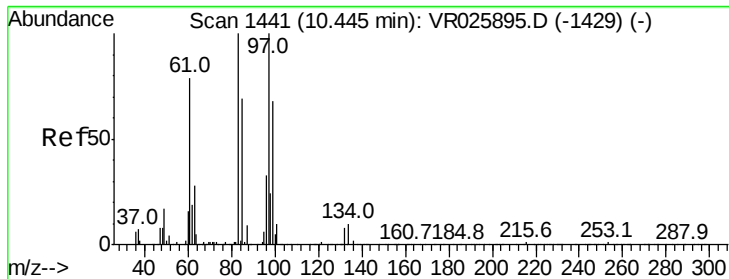
Tgt Ion: 75 Resp: 111727

Ion Ratio Lower Upper

75 100

77 28.5 23.0 42.8





#45

1,1,2-Trichloroethane

Concen: 4.312 ug/L

RT: 10.45 min Scan# 1441

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

ClientSampleId :

Tot Ion: 97 Resp: 64030

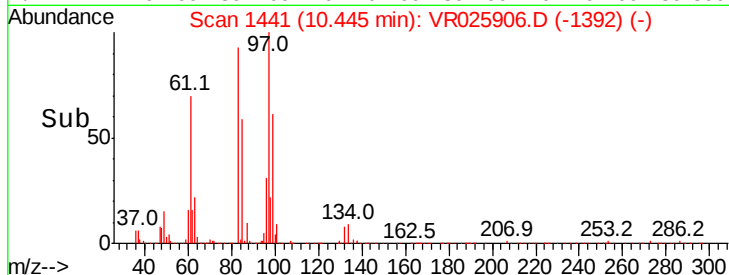
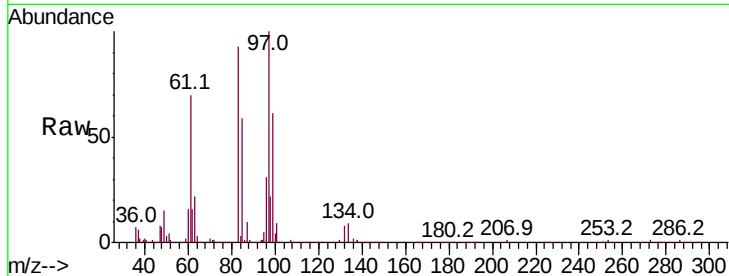
Ion Ratio Lower Upper

97 100

99 60.9 39.6 73.6

83 92.9 62.2 115.6

85 58.7 39.1 72.7

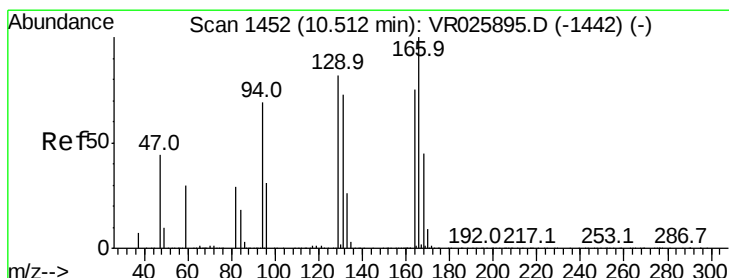
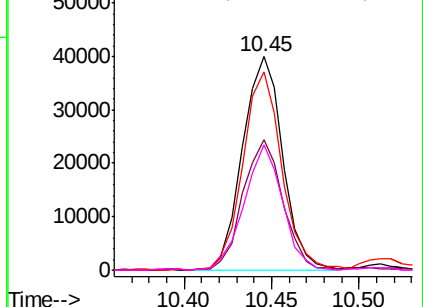


Abundance Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0



#47

Tetrachloroethene

Concen: 4.259 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Tgt Ion: 164 Resp: 105812

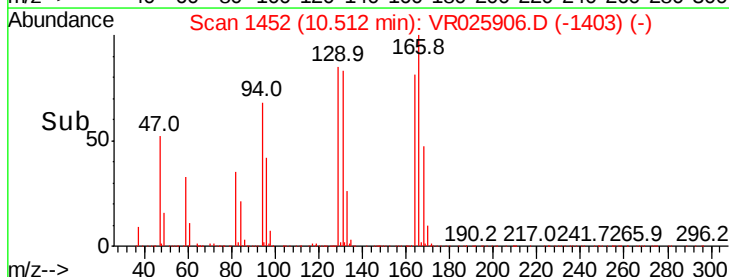
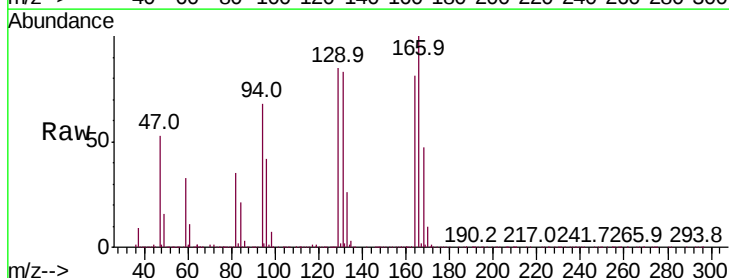
Ion Ratio Lower Upper

164 100

129 106.1 80.8 150.2

131 103.3 74.5 138.3

166 124.2 92.5 171.7

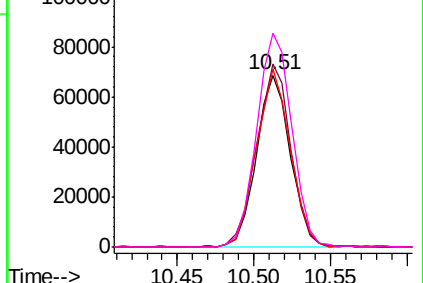


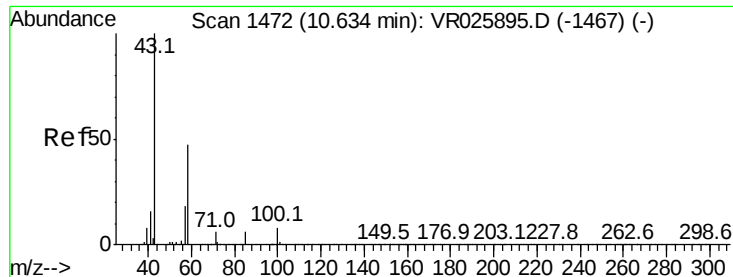
Abundance Ion 163.90 (163.60 to 164.60): V

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

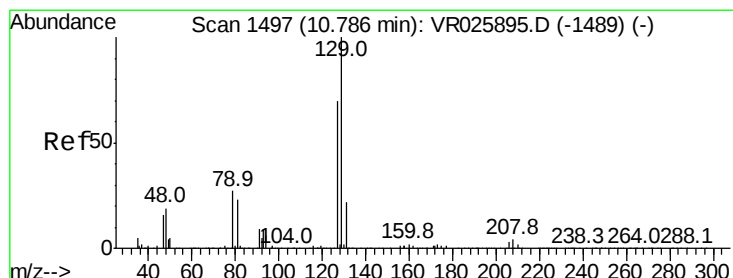
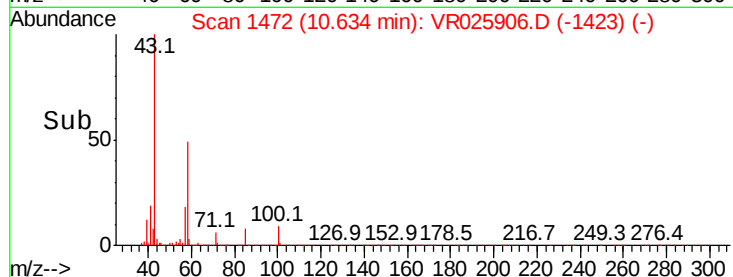
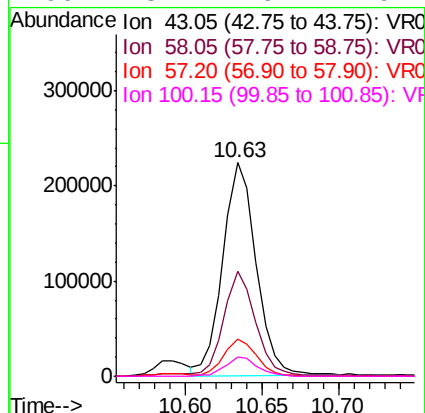
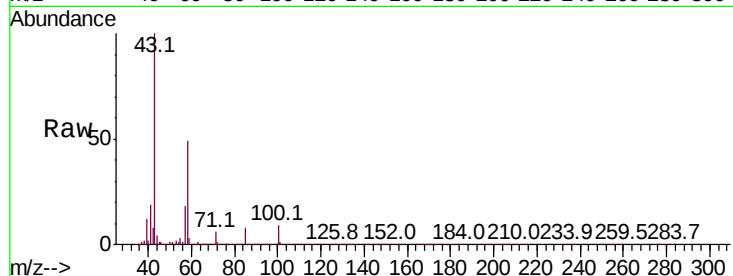




#48  
2-Hexanone  
Concen: 44.935 ug/L  
RT: 10.63 min Scan# 1472  
Delta R.T. -0.00 min  
Lab File: VR025906.D  
Acq: 28 Sep 2018 18:03

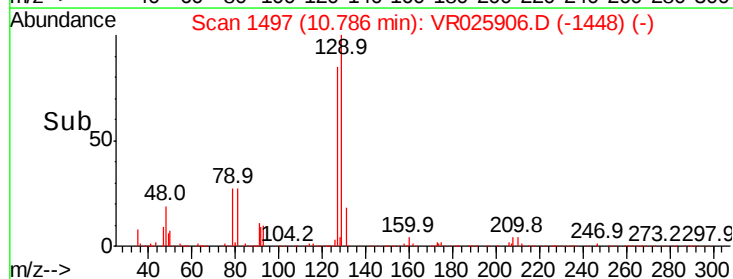
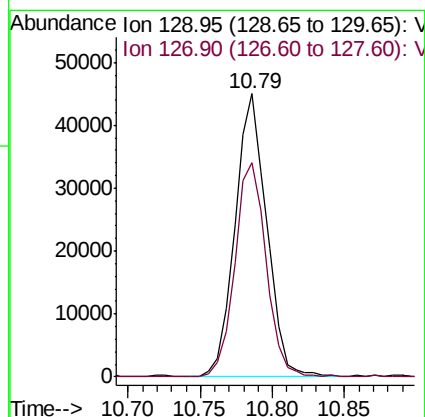
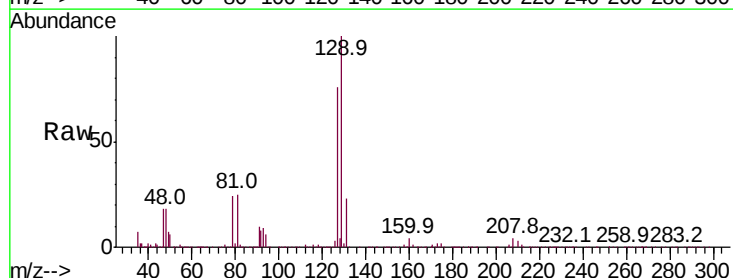
Instrument :  
MSVOA\_R  
ClientSampleId :

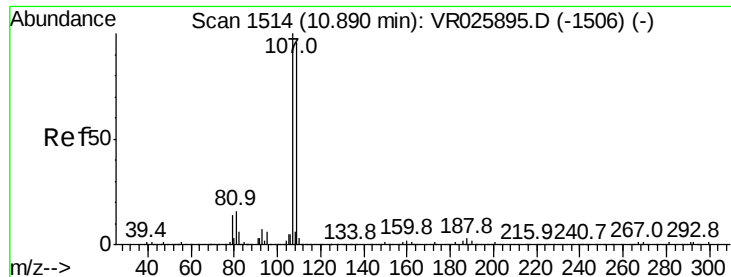
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 339612 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 48.9  | 39.5  | 59.3   |
| 57       | 16.8  | 14.6  | 21.8   |
| 100      | 8.7   | 6.7   | 10.1   |



#49  
Dibromochloromethane  
Concen: 4.558 ug/L  
RT: 10.79 min Scan# 1497  
Delta R.T. -0.00 min  
Lab File: VR025906.D  
Acq: 28 Sep 2018 18:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 68692 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 75.6  | 54.1  | 100.5 |

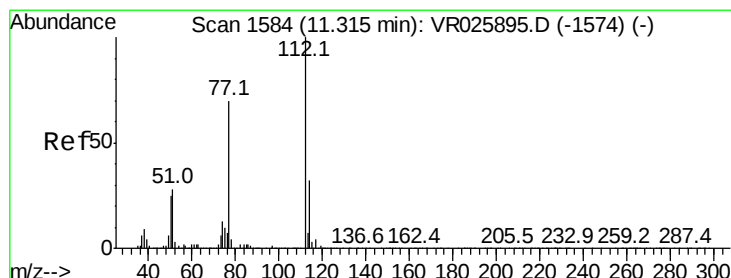
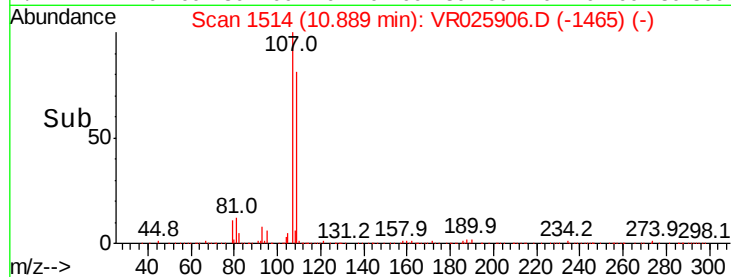
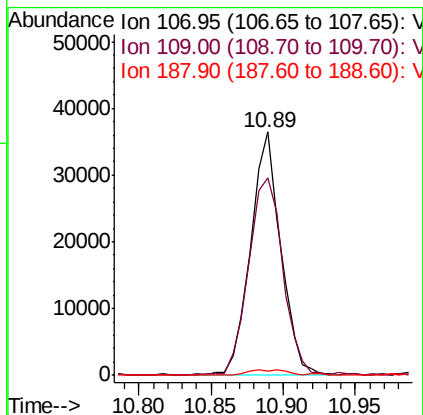
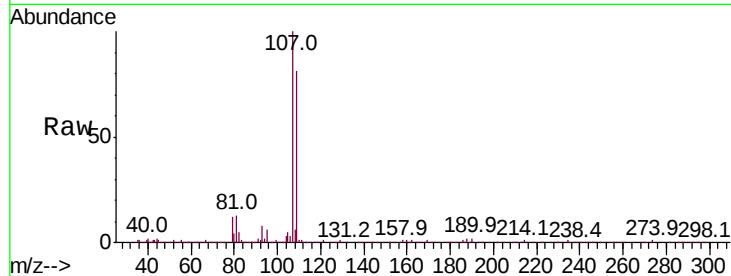




#50  
 1,2-Dibromoethane  
 Concen: 4.522 ug/L  
 RT: 10.89 min Scan# 1514  
 Delta R.T. -0.00 min  
 Lab File: VR025906.D  
 Acq: 28 Sep 2018 18:03

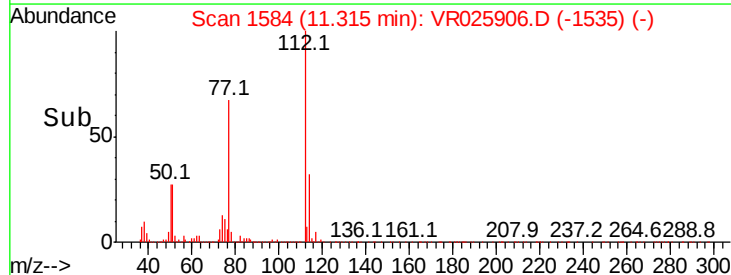
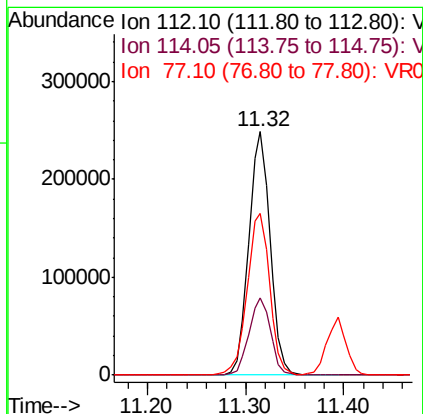
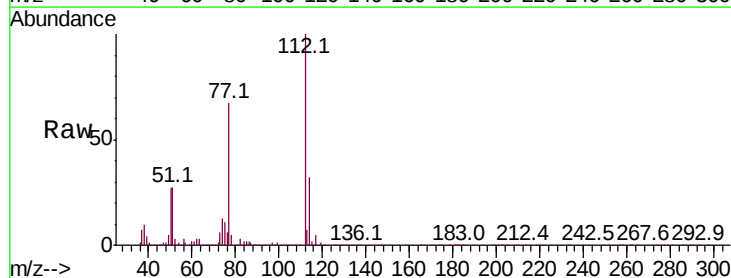
Instrument :  
 MSVOA\_R  
 ClientSampled :

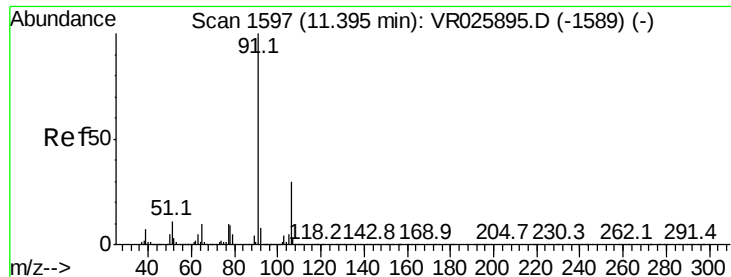
Tot Ion:107 Resp: 52986  
 Ion Ratio Lower Upper  
 107 100  
 109 80.9 63.5 117.9  
 188 2.1 1.7 2.5



#51  
 Chlorobenzene  
 Concen: 4.460 ug/L  
 RT: 11.32 min Scan# 1584  
 Delta R.T. -0.00 min  
 Lab File: VR025906.D  
 Acq: 28 Sep 2018 18:03

Tgt Ion:112 Resp: 376222  
 Ion Ratio Lower Upper  
 112 100  
 114 31.6 22.7 42.3  
 77 66.5 58.5 87.7





#52

Ethylbenzene

Concen: 4.508 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

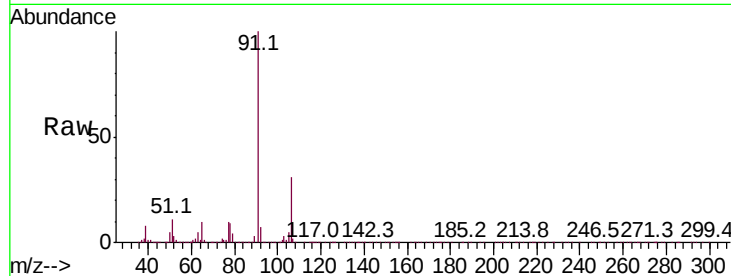
ClientSampleId :

Tot Ion: 91 Resp: 818118

Ion Ratio Lower Upper

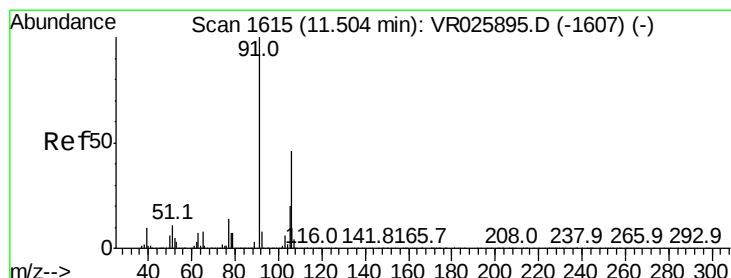
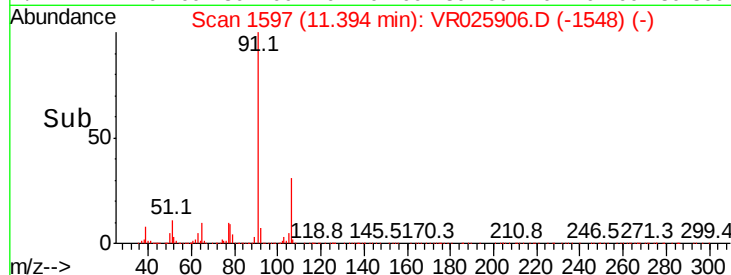
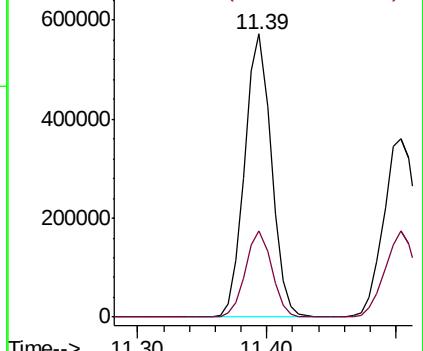
91 100

106 30.7 20.6 38.4



Abundance Ion 91.15 (90.85 to 91.85): VR0

Ion 106.15 (105.85 to 106.85): V



#53

m,p-Xylene

Concen: 4.539 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VR025906.D

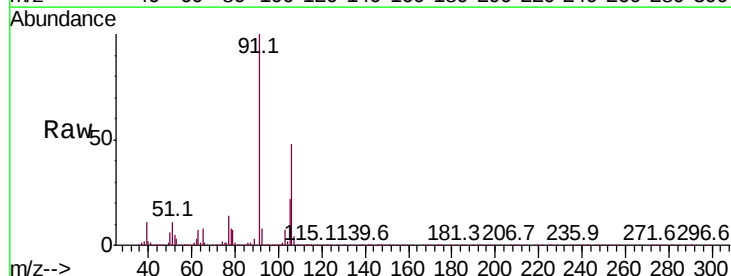
Acq: 28 Sep 2018 18:03

Tgt Ion: 106 Resp: 293295

Ion Ratio Lower Upper

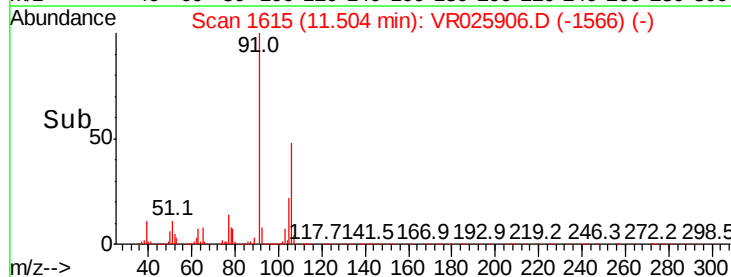
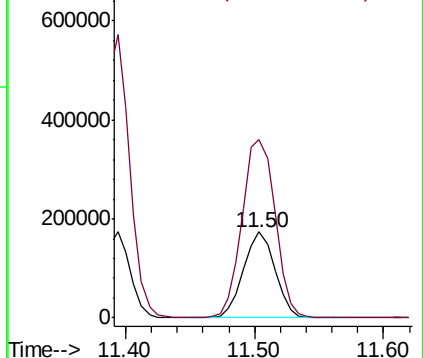
106 100

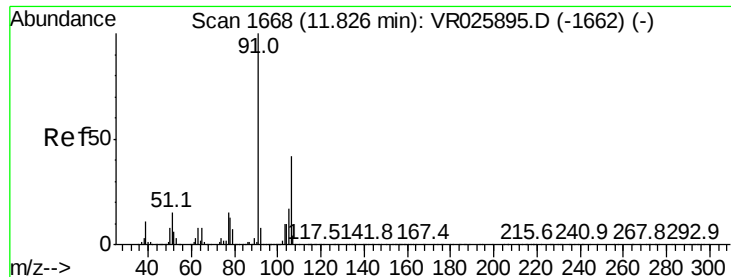
91 207.1 159.7 296.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0

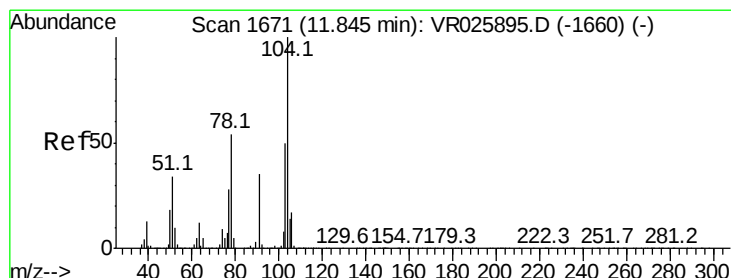
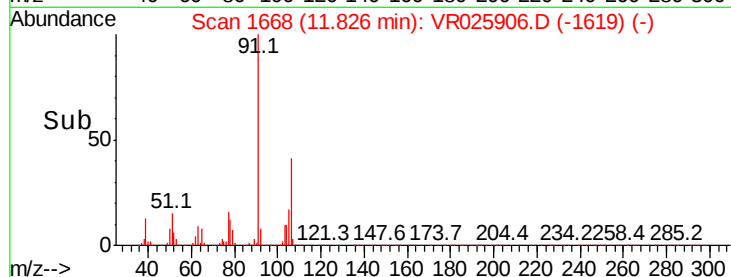
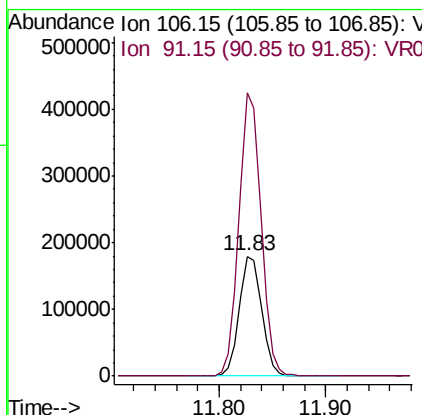
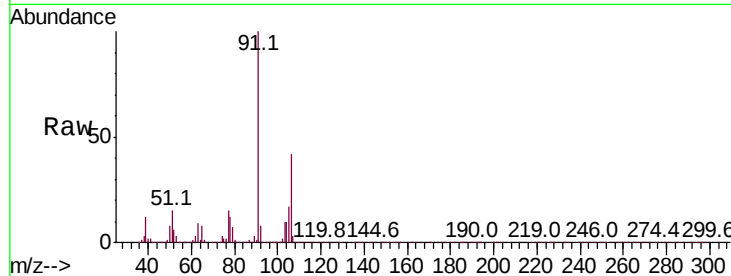




#54  
o-Xylene  
Concen: 4.451 ug/L  
RT: 11.83 min Scan# 1668  
Delta R.T. -0.00 min  
Lab File: VR025906.D  
Acq: 28 Sep 2018 18:03

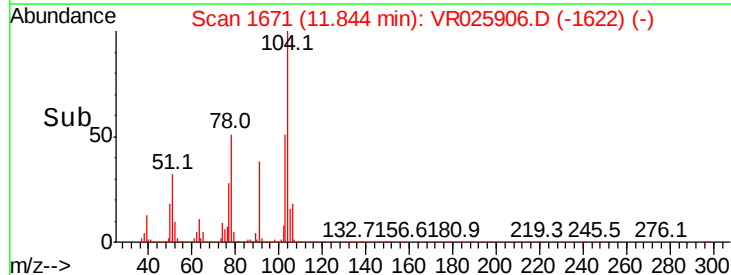
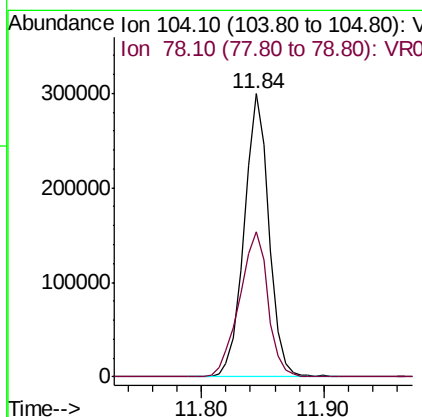
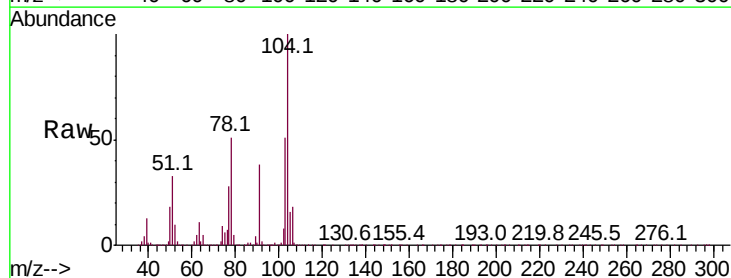
Instrument :  
MSVOA\_R  
ClientSampleId :

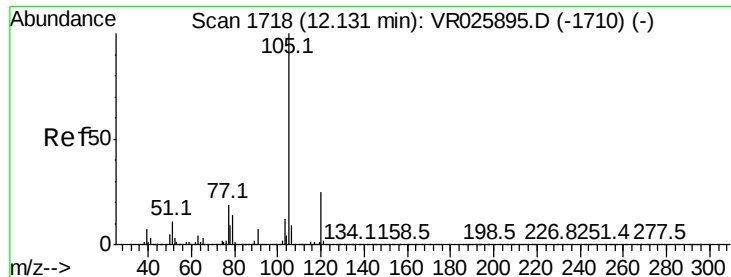
Tot Ion:106 Resp: 267719  
Ion Ratio Lower Upper  
106 100  
91 236.1 164.5 305.5



#55  
Styrene  
Concen: 4.475 ug/L  
RT: 11.84 min Scan# 1671  
Delta R.T. -0.00 min  
Lab File: VR025906.D  
Acq: 28 Sep 2018 18:03

Tgt Ion:104 Resp: 418910  
Ion Ratio Lower Upper  
104 100  
78 51.3 39.3 72.9





#56

Isopropylbenzene

Concen: 4.592 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

ClientSampled :

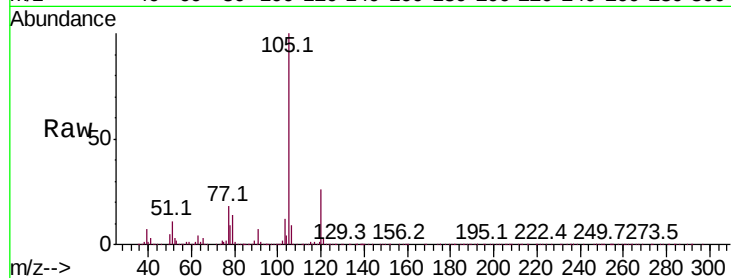
Tot Ion: 105 Resp: 761762

Ion Ratio Lower Upper

105 100

120 25.6 19.8 29.8

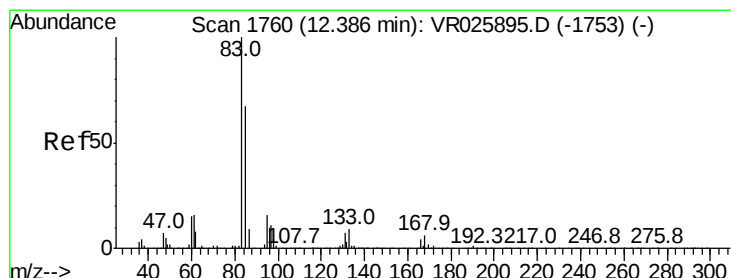
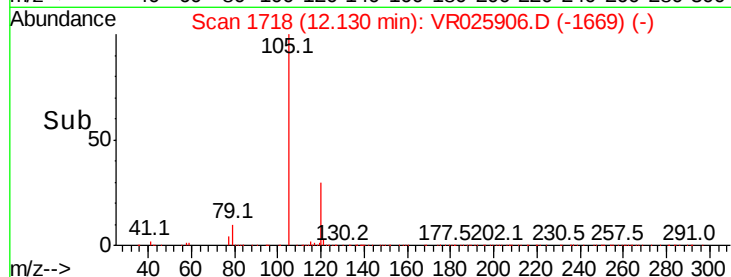
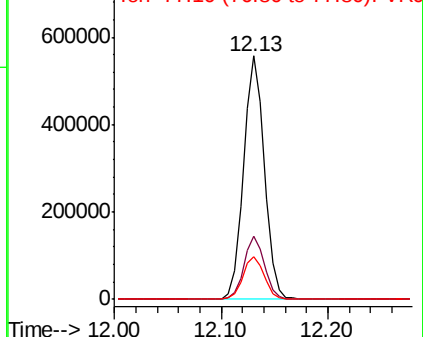
77 17.8 15.5 23.3



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): VR0



#58

1,1,2,2-Tetrachloroethane

Concen: 4.156 ug/L

RT: 12.39 min Scan# 1760

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

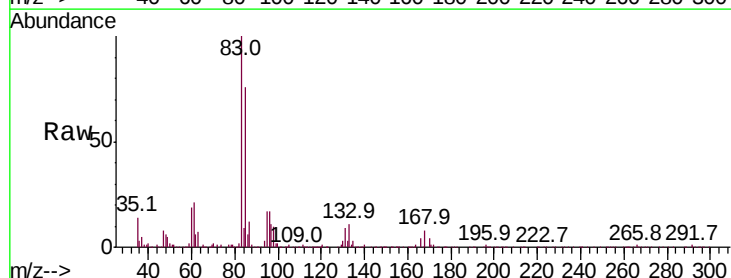
Tgt Ion: 83 Resp: 59462

Ion Ratio Lower Upper

83 100

85 75.5 45.8 85.0

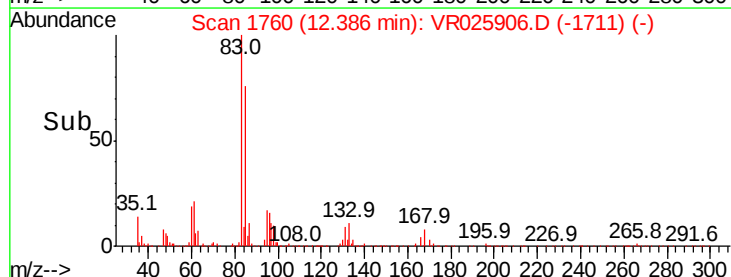
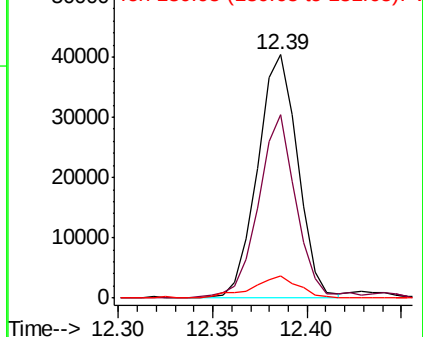
131 8.8 6.6 9.8

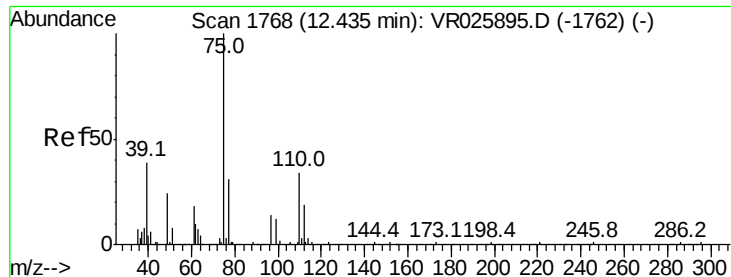


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.334 ug/L

RT: 12.43 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

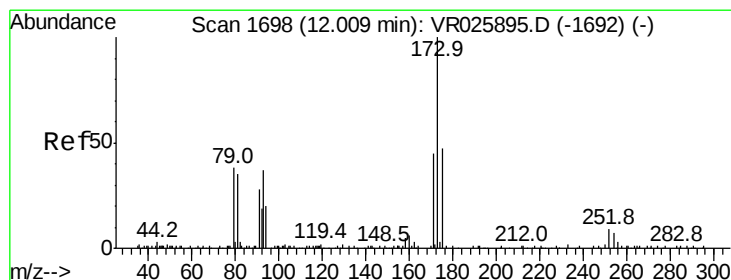
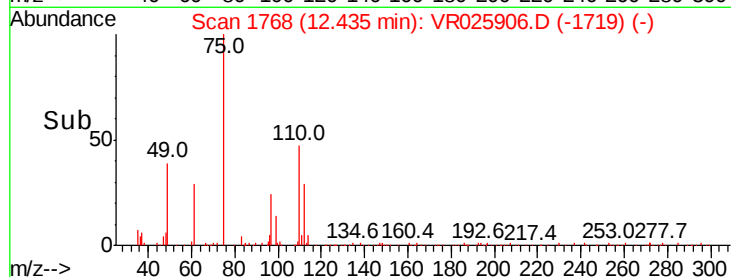
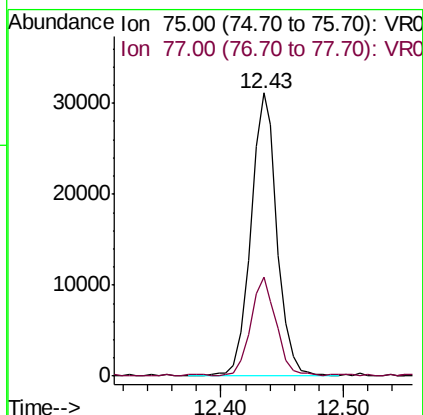
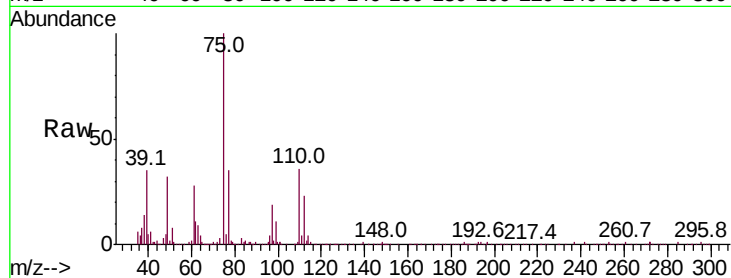
ClientSampleId :

Tot Ion: 75 Resp: 46152

Ion Ratio Lower Upper

75 100

77 34.5 25.8 38.6



#61

Bromoform

Concen: 4.402 ug/L

RT: 12.01 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

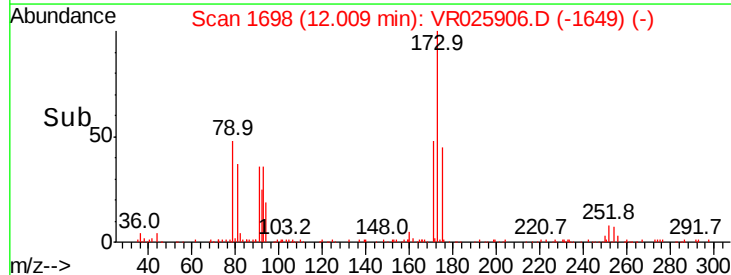
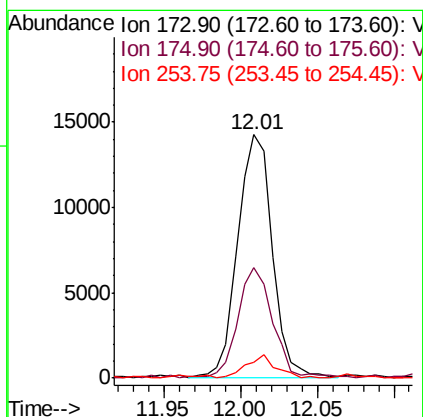
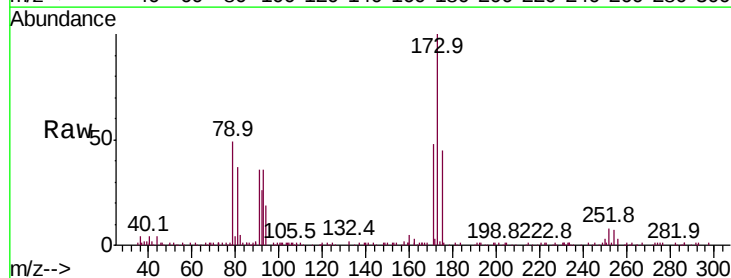
Tgt Ion: 173 Resp: 22496

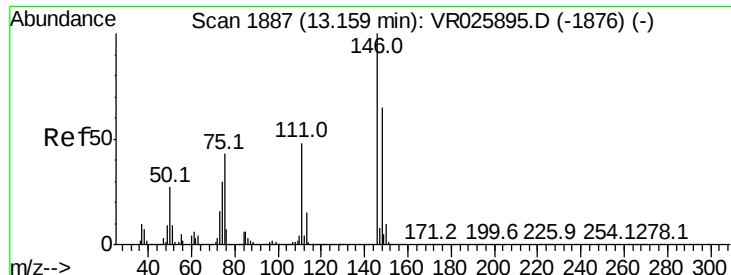
Ion Ratio Lower Upper

173 100

175 46.0 36.9 55.3

254 8.2 6.6 10.0





#62

1,3-Dichlorobenzene

Concen: 4.292 ug/L

RT: 13.16 min Scan# 1887

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

ClientSampleId :

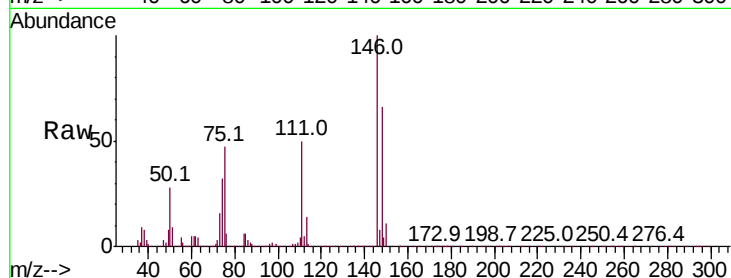
Tot Ion:146 Resp: 212027

Ion Ratio Lower Upper

146 100

111 49.8 36.6 68.0

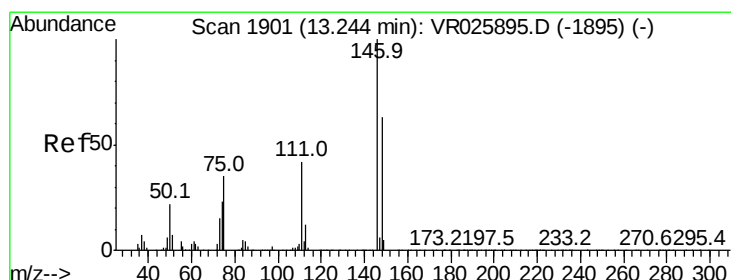
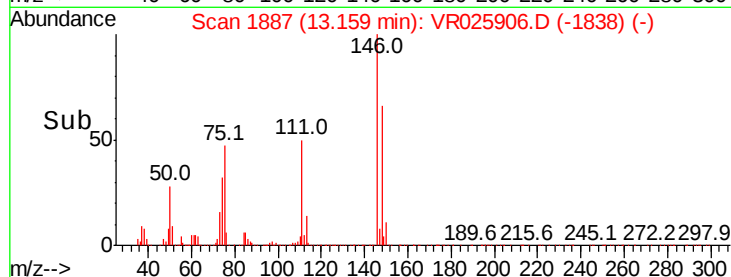
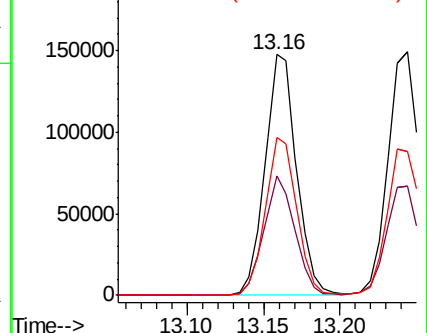
148 65.7 41.9 77.7



Abundance Ion 145.95 (145.65 to 146.65): V

200000 Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.324 ug/L

RT: 13.24 min Scan# 1901

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

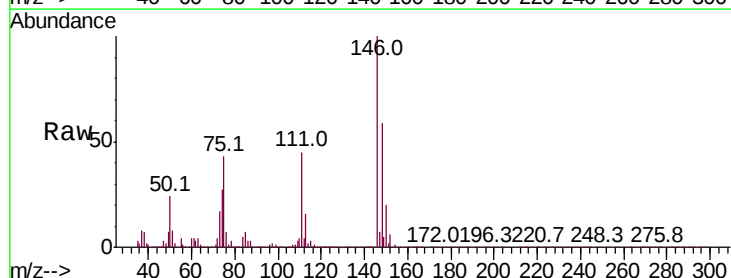
Tgt Ion:146 Resp: 218551

Ion Ratio Lower Upper

146 100

111 45.1 32.9 61.1

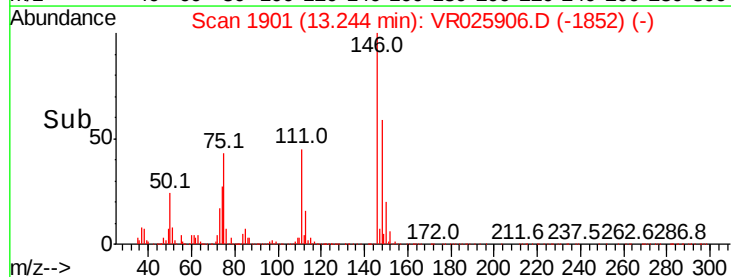
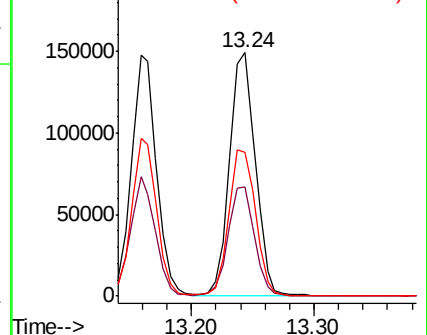
148 59.3 45.5 84.5

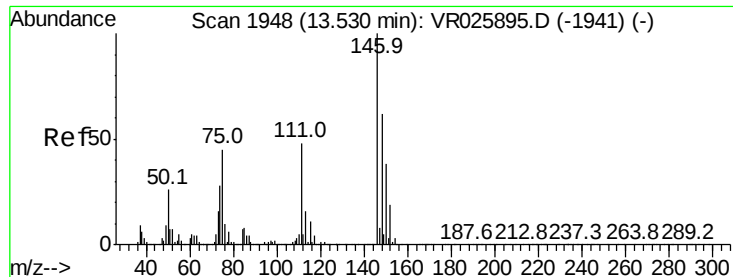


Abundance Ion 145.95 (145.65 to 146.65): V

200000 Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.206 ug/L

RT: 13.53 min Scan# 1948

Delta R.T. -0.00 min

Lab File: VR025906.D

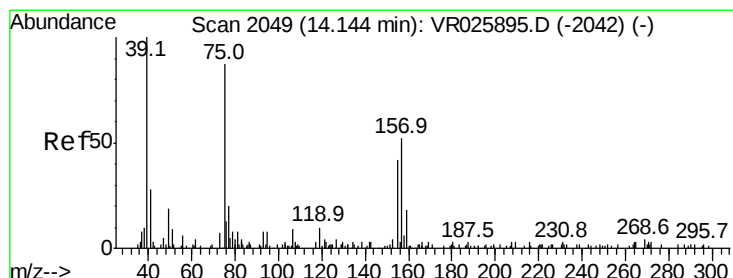
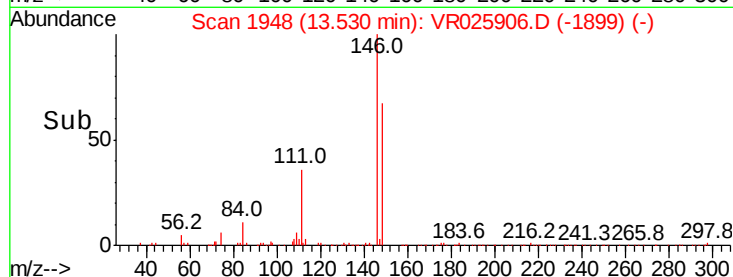
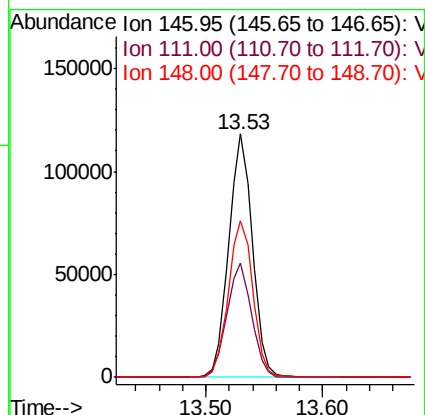
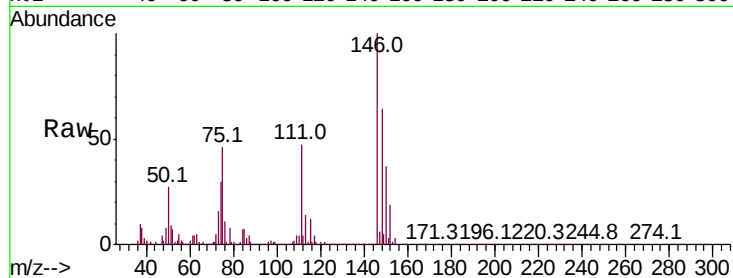
Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 146   | Resp: | 166946 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 47.1  | 39.4  | 59.0   |
| 148      | 64.3  | 53.5  | 80.3   |



#66

1,2-Dibromo-3-chloropropane

Concen: 4.177 ug/L

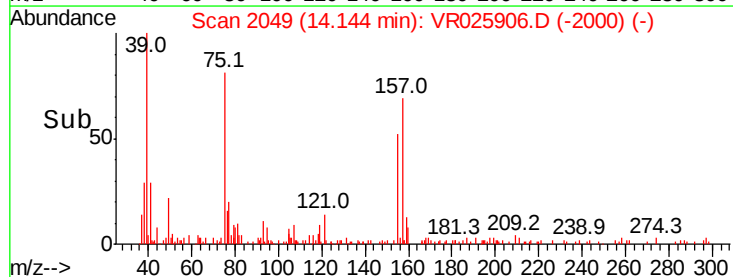
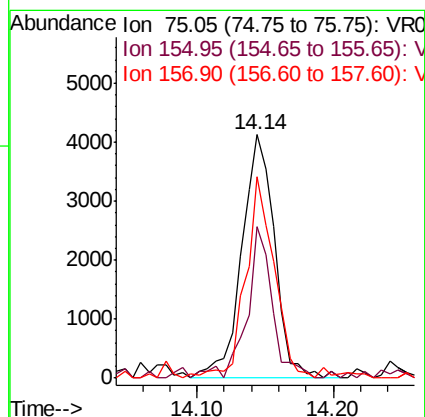
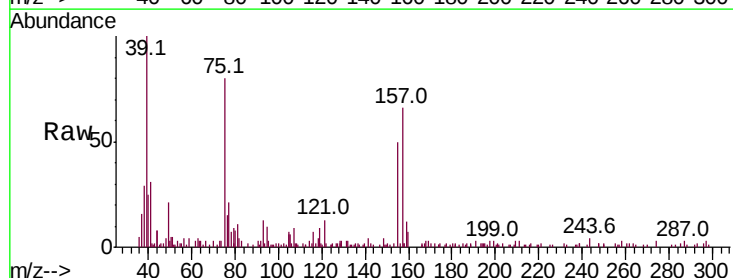
RT: 14.14 min Scan# 2049

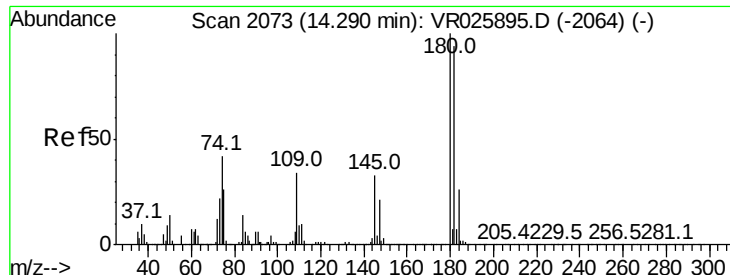
Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 6972  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 155      | 62.3  | 37.8  | 56.6# |
| 157      | 82.7  | 49.7  | 74.5# |

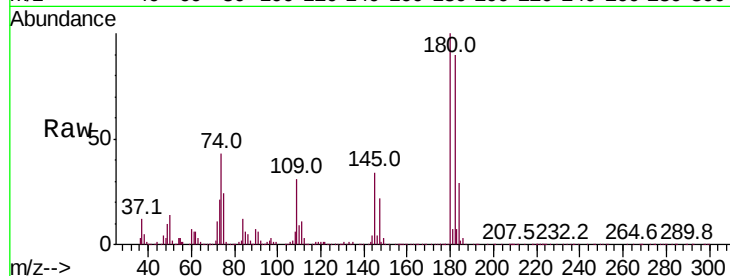




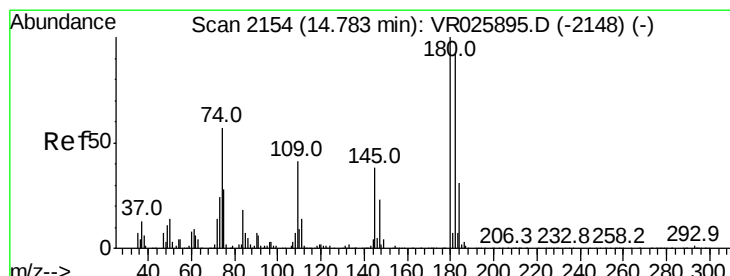
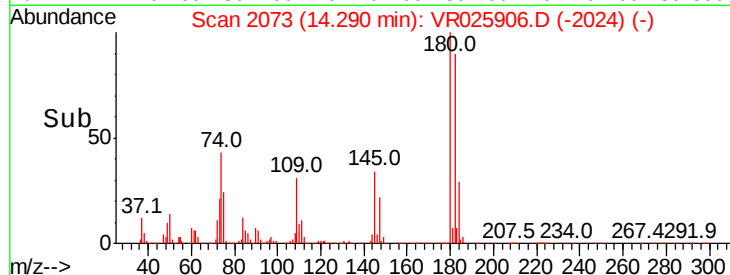
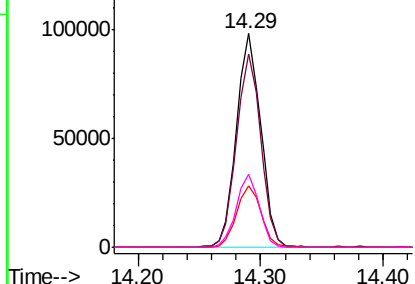
#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.550 ug/L  
 RT: 14.29 min Scan# 2073  
 Delta R.T. -0.00 min  
 Lab File: VR025906.D  
 Acq: 28 Sep 2018 18:03

Instrument :  
 MSVOA\_R  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 180   | Resp: | 133892 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 90.4  | 77.2  | 115.8  |
| 184      | 28.9  | 24.5  | 36.7   |
| 145      | 32.3  | 31.1  | 46.7   |

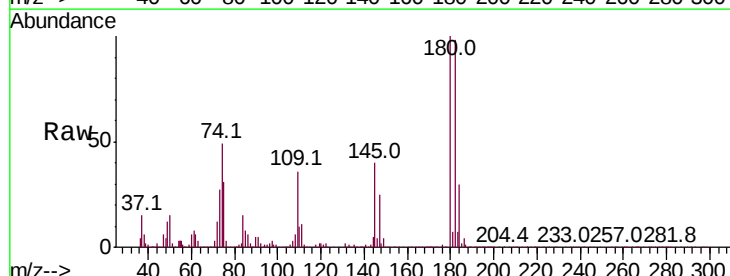


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

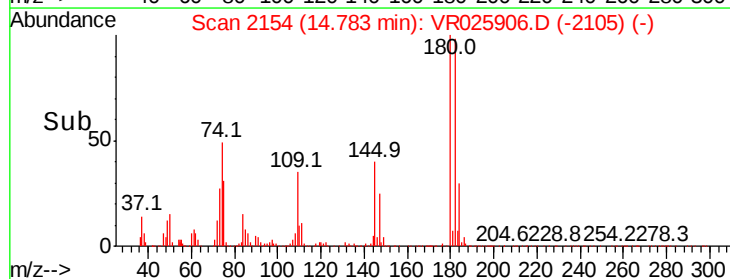
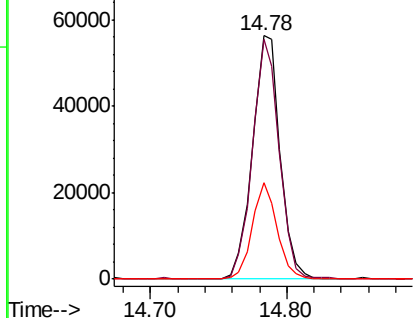


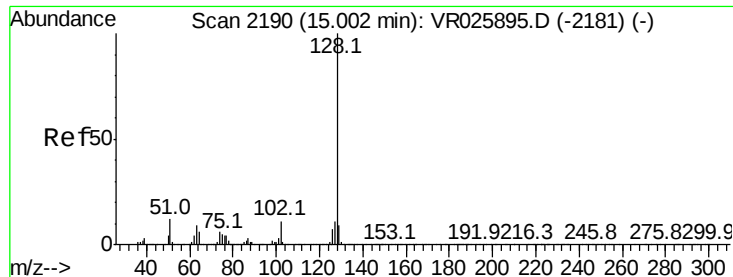
#68  
 1,2,4-trichlorobenzene  
 Concen: 4.284 ug/L  
 RT: 14.78 min Scan# 2154  
 Delta R.T. -0.00 min  
 Lab File: VR025906.D  
 Acq: 28 Sep 2018 18:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 80370 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 95.2  | 75.2  | 112.8 |
| 145      | 35.8  | 30.5  | 45.7  |



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





#69

Naphthalene

Concen: 4.331 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

Instrument :

MSVOA\_R

ClientSampleId :

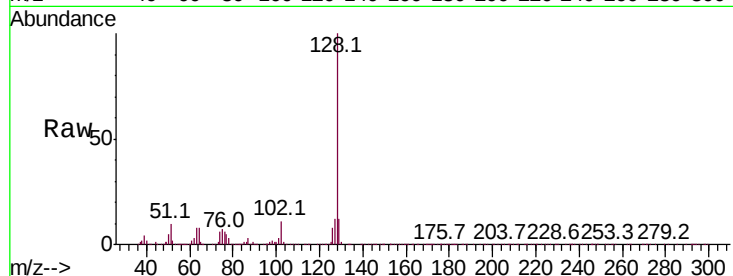
Tot Ion:128 Resp: 103691

Ion Ratio Lower Upper

128 100

127 12.2 10.5 15.7

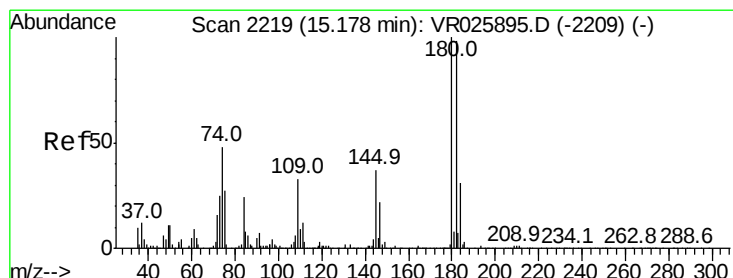
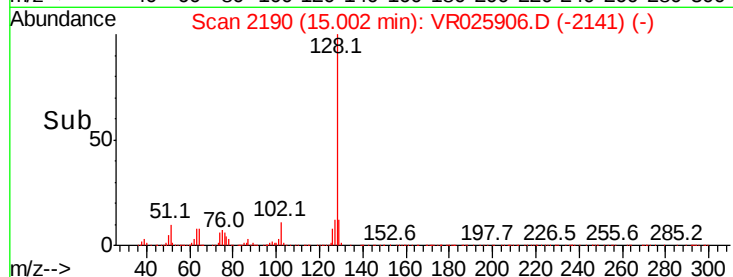
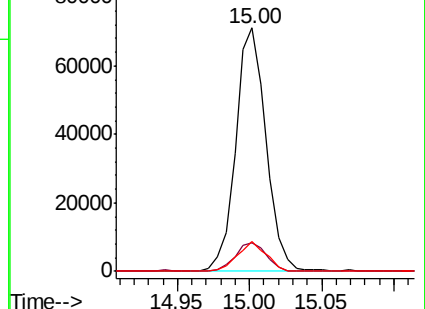
129 11.7 9.4 14.2



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: 4.312 ug/L

RT: 15.18 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VR025906.D

Acq: 28 Sep 2018 18:03

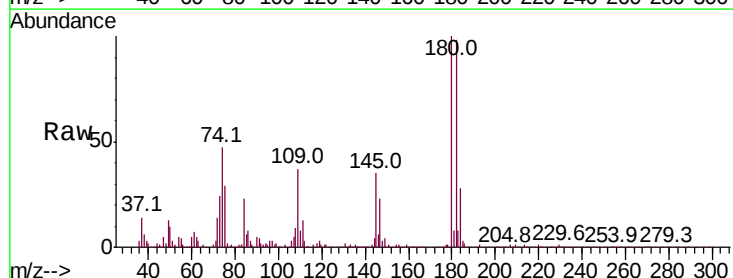
Tgt Ion:180 Resp: 56120

Ion Ratio Lower Upper

180 100

182 97.3 74.7 112.1

145 37.2 31.3 46.9



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

