

Data File : VR025774.D  
Acq On : 20 Sep 2018 13:06  
Operator : SY/MD  
Sample : VSTD02013  
Misc : 25mL/MSVOA\_R/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02013

Quant Time: Sep 20 14:03:48 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR092018WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Sep 20 12:33:47 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 616323   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.28 | 117  | 489043   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.23 | 152  | 185529   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 2.17  | 65  | 503419  | 18.78  | ug/L | 0.01 |
| 7) Chloroethane-d5             | 2.62  | 69  | 426867  | 19.46  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 3.62  | 63  | 1374804 | 18.76  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 6.58  | 46  | 1040069 | 384.50 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.20  | 84  | 1477809 | 24.11  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 7.90  | 65  | 625388  | 30.09  | ug/L | 0.00 |
| 32) Benzene-d6                 | 7.85  | 84  | 2475487 | 18.73  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 8.90  | 67  | 734710  | 20.63  | ug/L | 0.00 |
| 41) Toluene-d8                 | 9.97  | 98  | 2051167 | 16.24  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 10.24 | 79  | 268363  | 30.53  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 10.59 | 63  | 846011  | 321.81 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36 | 84  | 349697  | 22.45  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 13.52 | 152 | 498020  | 18.94  | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |         |         |        | Qvalue |
|--------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.83 | 85  | 1436781 | 45.715  | ug/L   | 98     |
| 3) Chloromethane               | 2.02 | 50  | 1232099 | 31.935  | ug/L   | 98     |
| 5) Vinyl chloride              | 2.17 | 62  | 1188600 | 30.996  | ug/L   | 94     |
| 6) Bromomethane                | 2.52 | 94  | 610307  | 22.234  | ug/L   | 97     |
| 8) Chloroethane                | 2.65 | 64  | 646555  | 28.713  | ug/L   | 99     |
| 9) Trichlorofluoromethane      | 2.93 | 101 | 625833  | 8.853   | ug/L # | 33     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.68 | 101 | 860435  | 22.586  | ug/L   | 97     |
| 12) 1,1-Dichloroethene         | 3.63 | 96  | 908839  | 22.604  | ug/L   | 99     |
| 13) Acetone                    | 3.70 | 43  | 548754  | 301.037 | ug/L   | 96     |
| 14) Carbon disulfide           | 3.93 | 76  | 3133289 | 33.028  | ug/L   | 99     |
| 15) Methyl Acetate             | 4.19 | 43  | 205263  | 31.584  | ug/L # | 89     |
| 16) Methylene chloride         | 4.40 | 84  | 793722  | 22.296  | ug/L   | 100    |
| 17) Methyl tert-butyl Ether    | 4.89 | 73  | 1901090 | 38.434  | ug/L   | 100    |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96  | 1184674 | 24.107  | ug/L   | 97     |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 2379569 | 31.404  | ug/L   | 99     |
| 21) 2-Butanone                 | 6.69 | 43  | 1383432 | 359.617 | ug/L   | 97     |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96  | 1162489 | 27.190  | ug/L # | 98     |
| 23) Bromochloromethane         | 7.05 | 128 | 323056  | 22.026  | ug/L   | 97     |
| 25) Chloroform                 | 7.23 | 83  | 2165223 | 31.275  | ug/L   | 100    |
| 27) 1,2-Dichloroethane         | 7.99 | 62  | 1127801 | 41.283  | ug/L   | 98     |
| 29) 1,1,1-Trichloroethane      | 7.43 | 97  | 2083079 | 42.760  | ug/L   | 100    |
| 30) Cyclohexane                | 7.52 | 56  | 2339944 | 39.972  | ug/L   | 100    |
| 31) Carbon tetrachloride       | 7.63 | 117 | 1822441 | 38.593  | ug/L   | 100    |
| 33) Benzene                    | 7.91 | 78  | 4707071 | 27.016  | ug/L   | 100    |
| 34) Trichloroethene            | 8.71 | 95  | 1317657 | 31.203  | ug/L   | 98     |
| 35) Methylcyclohexane          | 8.95 | 83  | 2203349 | 33.807  | ug/L   | 99     |
| 37) 1,2-Dichloropropane        | 9.00 | 63  | 1050393 | 26.742  | ug/L   | 99     |
| 38) Bromodichloromethane       | 9.28 | 83  | 1322493 | 37.492  | ug/L   | 99     |
| 39) cis-1,3-Dichloropropene    | 9.72 | 75  | 1464311 | 36.456  | ug/L   | 98     |
| 40) 4-Methyl-2-pentanone       | 9.87 | 43  | 3585065 | 369.237 | ug/L   | 98     |

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Sep 20 12:33:47 2018  
Response via : Initial Calibration

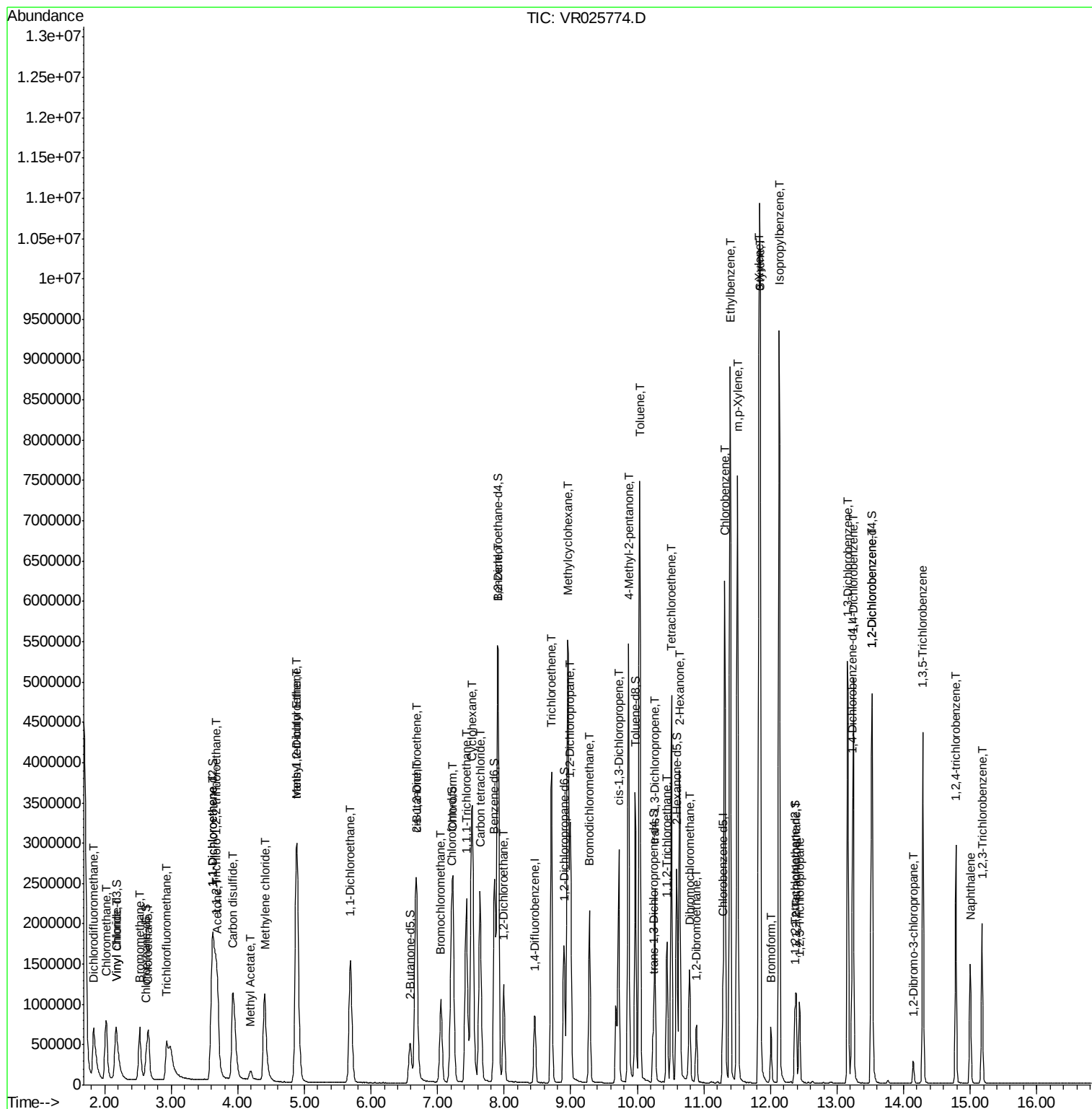
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 42) Toluene                    | 10.04 | 91   | 4738683  | 26.571  | ug/L   | 94       |
| 44) trans-1,3-Dichloropropene  | 10.26 | 75   | 1104373  | 39.092  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane      | 10.45 | 97   | 461082   | 25.060  | ug/L   | 97       |
| 47) Tetrachloroethene          | 10.51 | 164  | 826260   | 23.893  | ug/L   | 95       |
| 48) 2-Hexanone                 | 10.63 | 43   | 2436167  | 357.771 | ug/L   | 99       |
| 49) Dibromochloromethane       | 10.79 | 129  | 604781   | 30.860  | ug/L   | 94       |
| 50) 1,2-Dibromoethane          | 10.89 | 107  | 425875   | 29.138  | ug/L # | 98       |
| 51) Chlorobenzene              | 11.32 | 112  | 2634954  | 23.504  | ug/L   | 98       |
| 52) Ethylbenzene               | 11.39 | 91   | 5366580  | 27.928  | ug/L   | 92       |
| 53) m,p-Xylene                 | 11.50 | 106  | 2135939  | 27.624  | ug/L   | 90       |
| 54) o-Xylene                   | 11.83 | 106  | 1976283  | 29.011  | ug/L   | 85       |
| 55) Styrene                    | 11.84 | 104  | 3074035  | 28.023  | ug/L   | 99       |
| 56) Isopropylbenzene           | 12.13 | 105  | 5089914  | 29.986  | ug/L   | 97       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.39 | 83   | 453108   | 25.286  | ug/L   | 100      |
| 59) 1,2,3-Trichloropropane     | 12.43 | 75   | 365263   | 30.306  | ug/L   | 100      |
| 61) Bromoform                  | 12.01 | 173  | 256351   | 32.293  | ug/L   | 97       |
| 62) 1,3-Dichlorobenzene        | 13.16 | 146  | 1682894  | 29.038  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene        | 13.24 | 146  | 1596853  | 24.226  | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 13.53 | 146  | 1268050  | 25.362  | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.14 | 75   | 71963    | 48.945  | ug/L # | 93       |
| 67) 1,3,5-Trichlorobenzene     | 14.29 | 180  | 999934   | 29.021  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 14.78 | 180  | 661209   | 31.287  | ug/L   | 99       |
| 69) Naphthalene                | 15.00 | 128  | 982035   | 41.539  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.18 | 180  | 460028   | 27.499  | ug/L   | 99       |

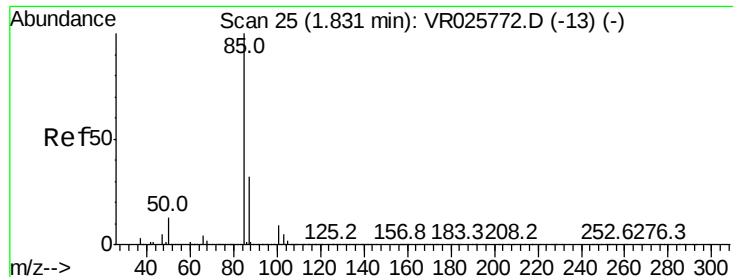
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 45.715 ug/L

RT: 1.83 min Scan# 25

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampleId :

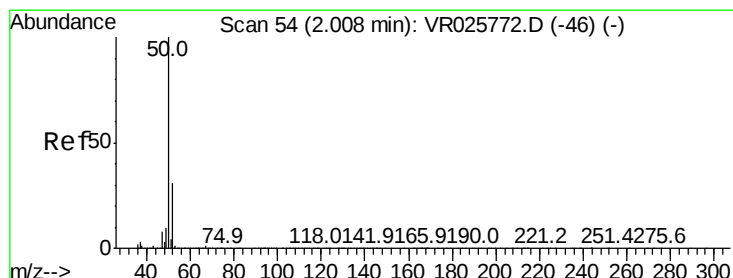
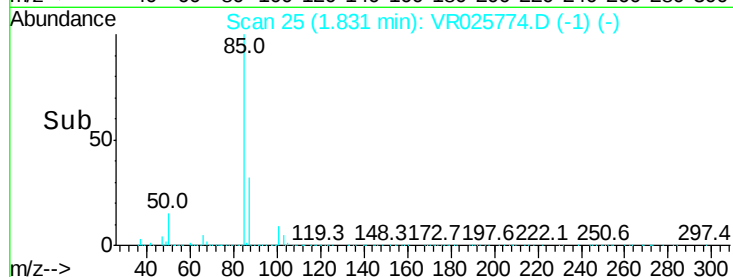
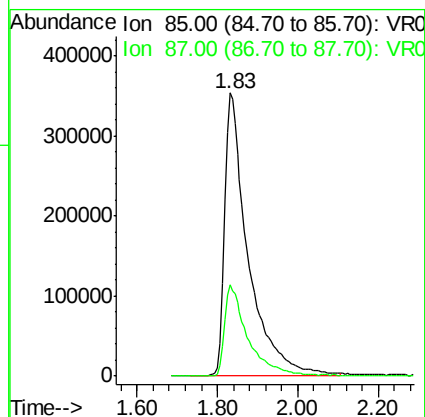
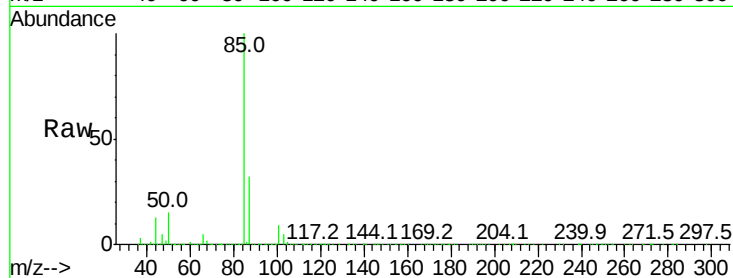
VSTD02013

Tgt Ion: 85 Resp: 1436781

Ion Ratio Lower Upper

85 100

87 31.8 26.4 39.6



#3

Chloromethane

Concen: 31.935 ug/L

RT: 2.02 min Scan# 56

Delta R.T. 0.01 min

Lab File: VR025774.D

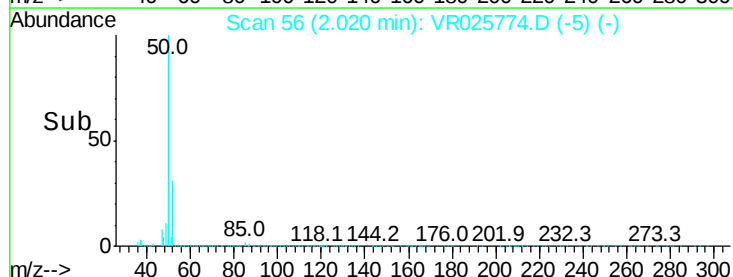
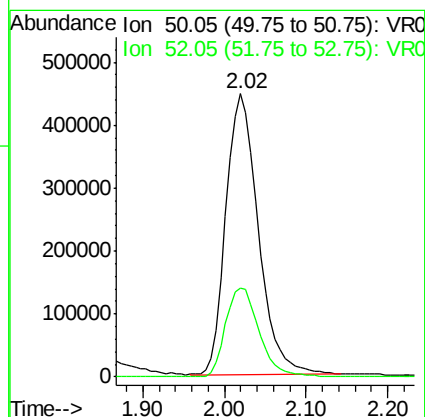
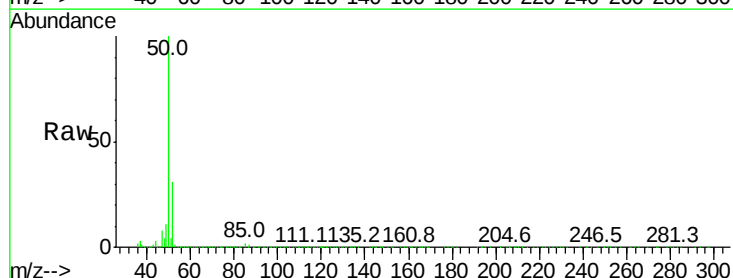
Acq: 20 Sep 2018 13:06

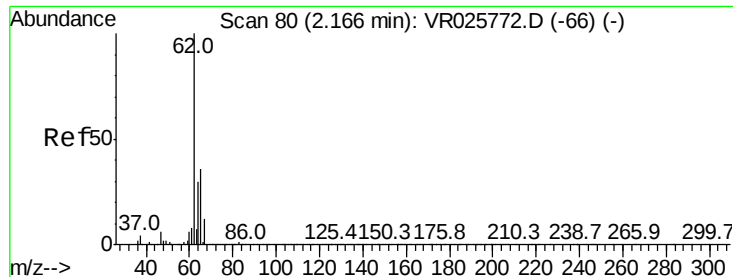
Tgt Ion: 50 Resp: 1232099

Ion Ratio Lower Upper

50 100

52 31.5 21.3 39.6





#5

Vinyl chloride

Concen: 30.996 ug/L

RT: 2.17 min Scan# 81

Delta R.T. 0.01 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampleId :

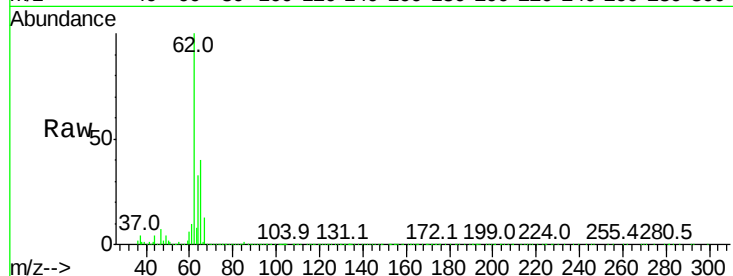
VSTD02013

Tgt Ion: 62 Resp: 1188600

Ion Ratio Lower Upper

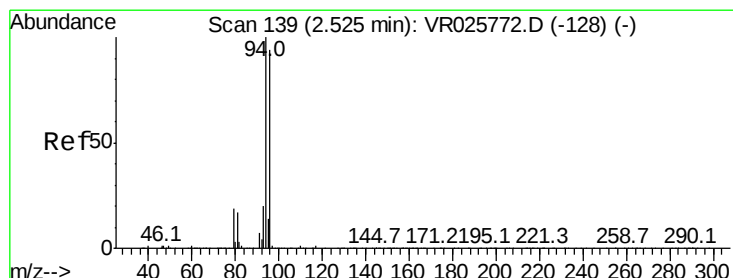
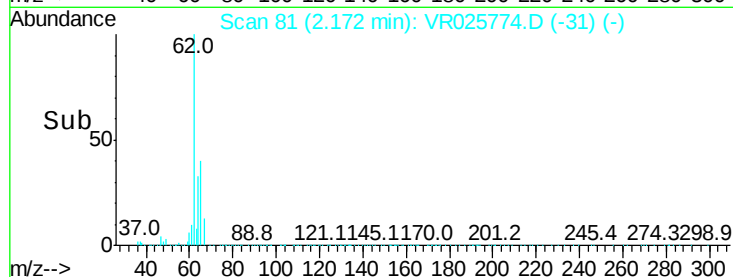
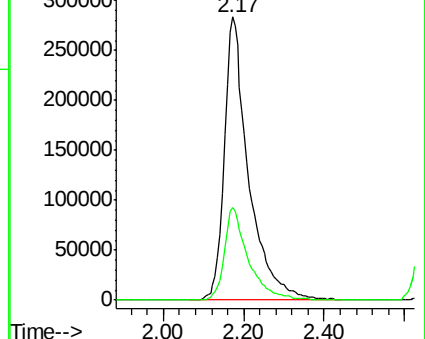
62 100

64 32.9 20.9 38.9



Abundance Ion 62.00 (61.70 to 62.70): VR0

Ion 64.10 (63.80 to 64.80): VR0



#6

Bromomethane

Concen: 22.234 ug/L

RT: 2.52 min Scan# 139

Delta R.T. -0.00 min

Lab File: VR025774.D

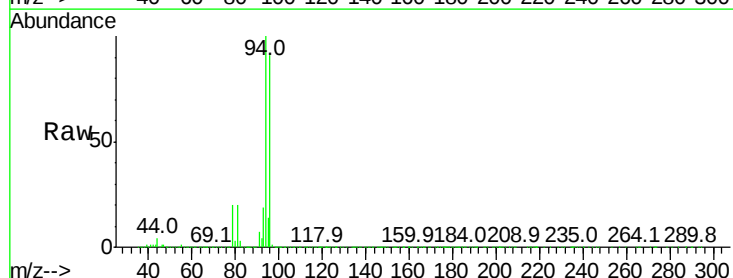
Acq: 20 Sep 2018 13:06

Tgt Ion: 94 Resp: 610307

Ion Ratio Lower Upper

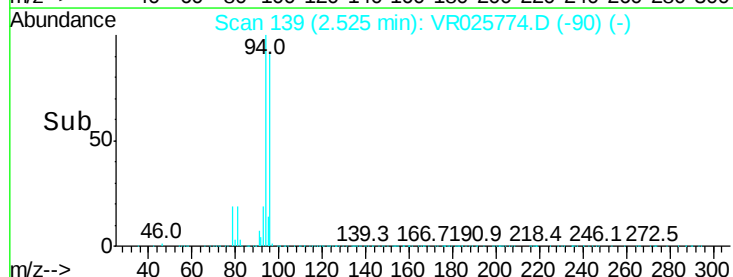
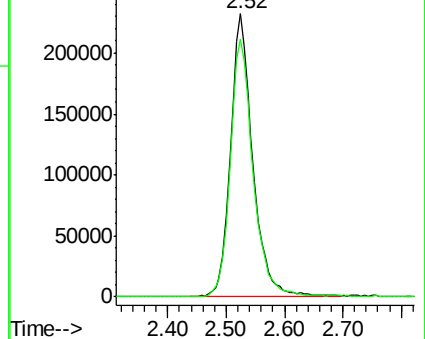
94 100

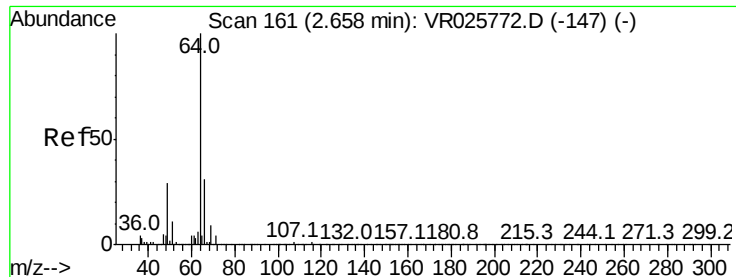
96 91.2 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VR0

Ion 96.00 (95.70 to 96.70): VR0





#8

Chloroethane

Concen: 28.713 ug/L

RT: 2.65 min Scan# 160

Delta R.T. -0.01 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampled :

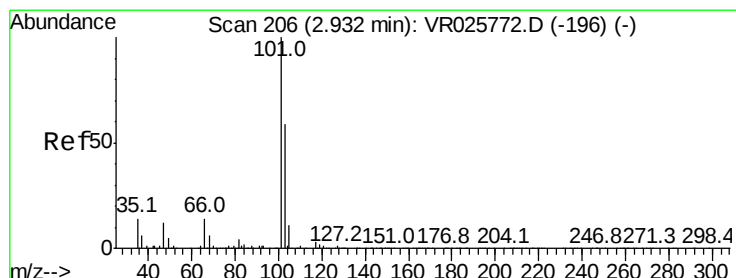
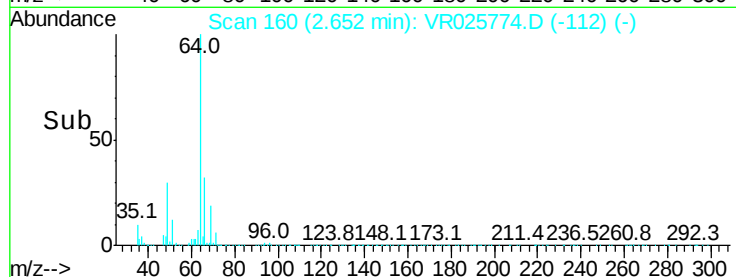
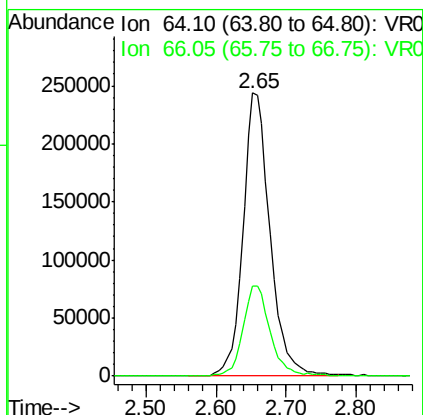
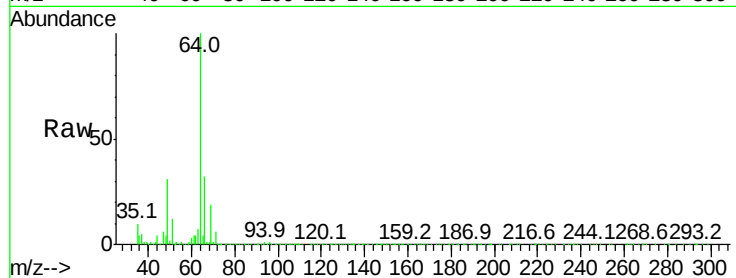
VSTD02013

Tgt Ion: 64 Resp: 646555

Ion Ratio Lower Upper

64 100

66 31.9 21.9 40.7



#9

Trichlorofluoromethane

Concen: 8.853 ug/L

RT: 2.93 min Scan# 206

Delta R.T. -0.00 min

Lab File: VR025774.D

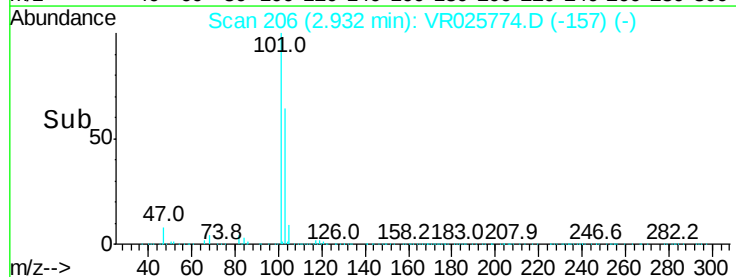
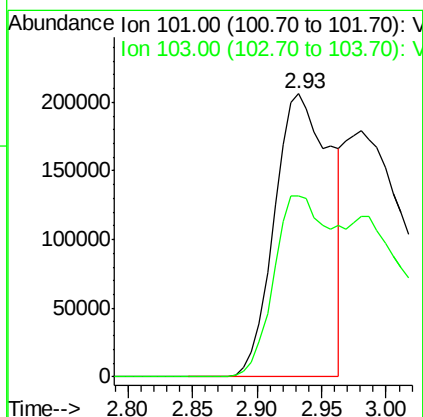
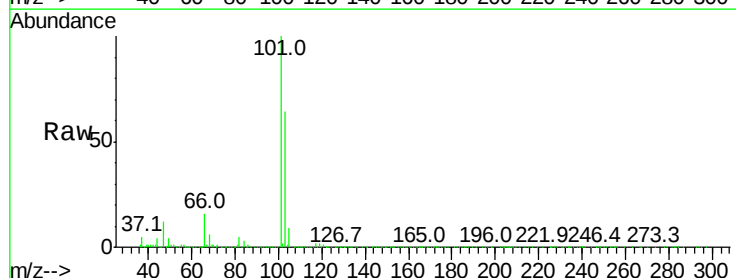
Acq: 20 Sep 2018 13:06

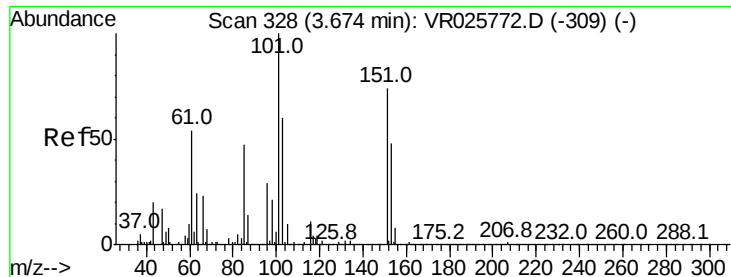
Tgt Ion: 101 Resp: 625833

Ion Ratio Lower Upper

101 100

103 59.0 20.2 30.2#





#10

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

Concen: 22.586 ug/L

RT: 3.68 min Scan# 329

Delta R.T. 0.01 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampled :

VSTD02013

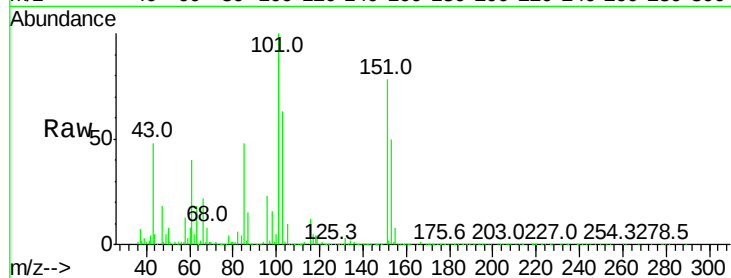
Tgt Ion: 101 Resp: 860435

Ion Ratio Lower Upper

101 100

85 49.0 37.6 56.4

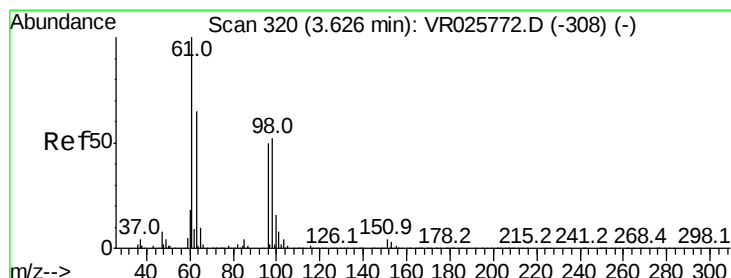
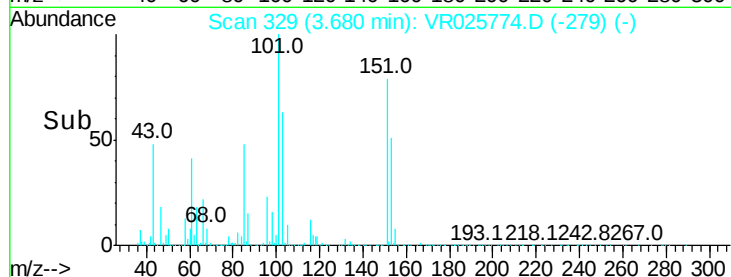
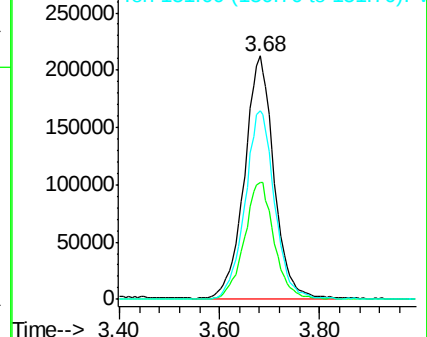
151 78.3 60.9 91.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VR0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 22.604 ug/L

RT: 3.63 min Scan# 320

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

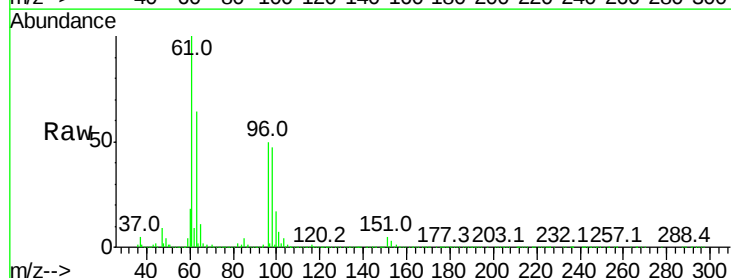
Tgt Ion: 96 Resp: 908839

Ion Ratio Lower Upper

96 100

61 200.1 138.7 257.7

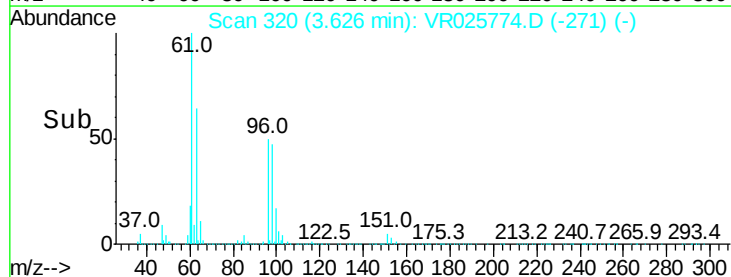
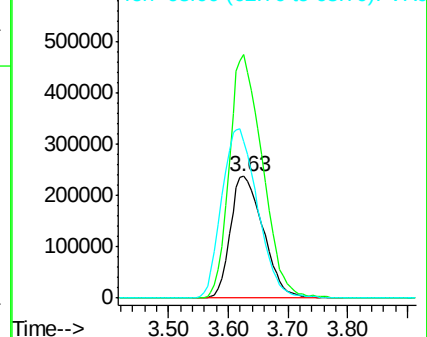
63 128.4 90.9 168.7

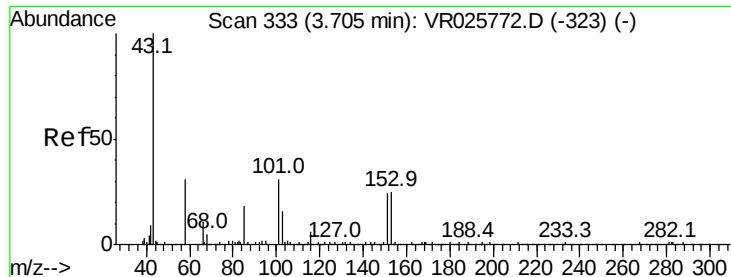


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0

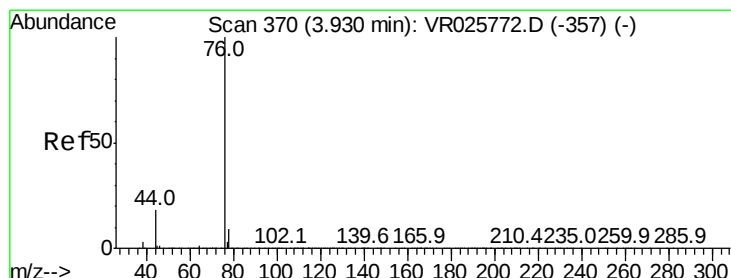
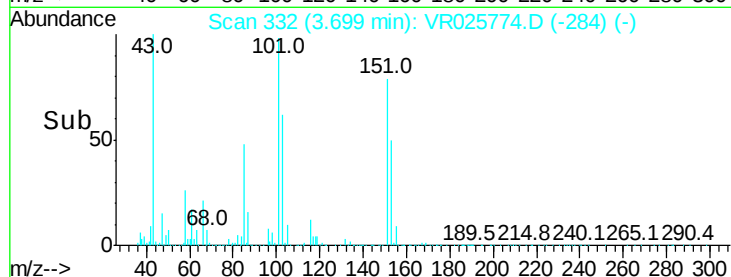
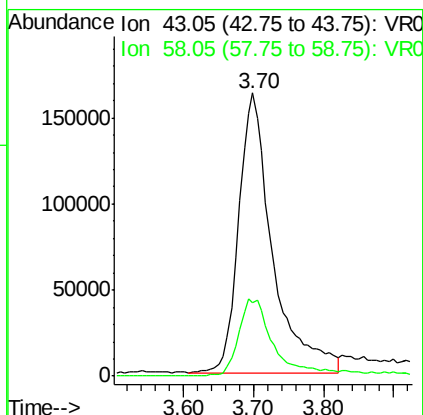
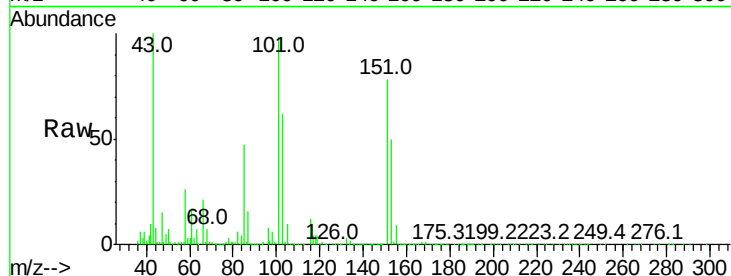




#13  
Acetone  
Concen: 301.037 ug/L  
RT: 3.70 min Scan# 332  
Delta R.T. -0.01 min  
Lab File: VR025774.D  
Acq: 20 Sep 2018 13:06

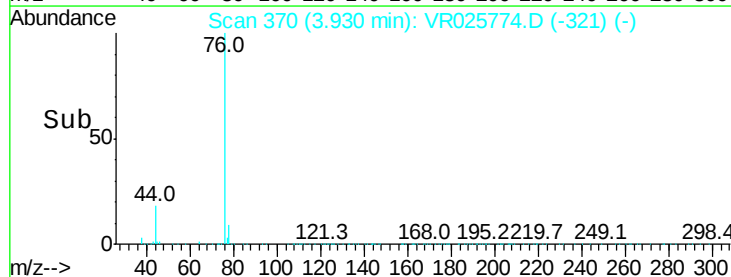
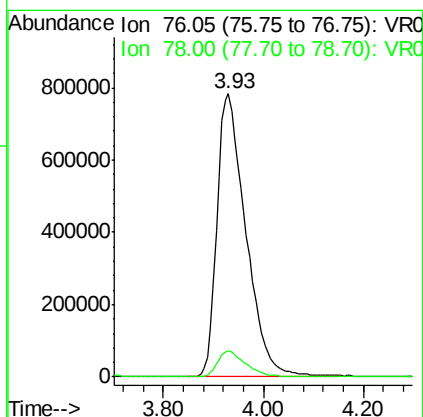
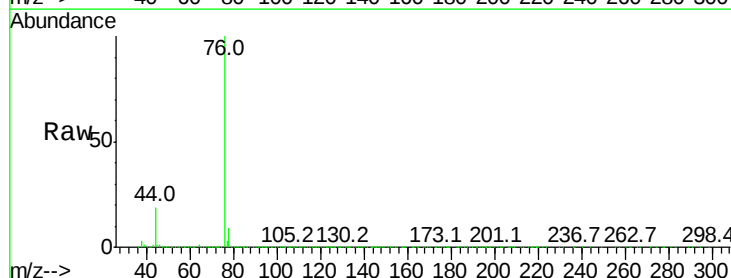
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02013

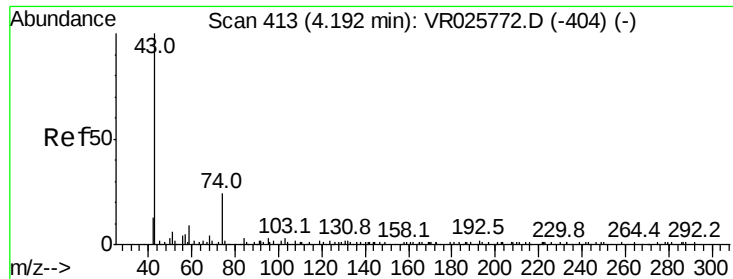
Tgt Ion: 43 Resp: 548754  
Ion Ratio Lower Upper  
43 100  
58 29.5 0.0 63.0



#14  
Carbon disulfide  
Concen: 33.028 ug/L  
RT: 3.93 min Scan# 370  
Delta R.T. -0.00 min  
Lab File: VR025774.D  
Acq: 20 Sep 2018 13:06

Tgt Ion: 76 Resp: 3133289  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.6 11.4

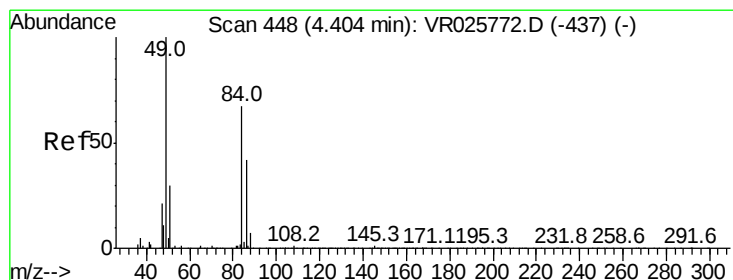
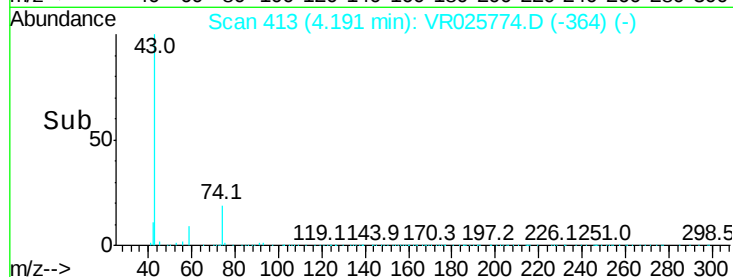
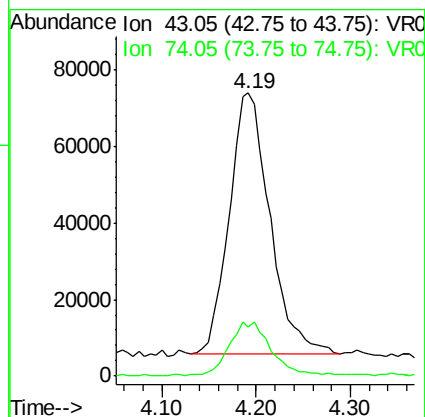
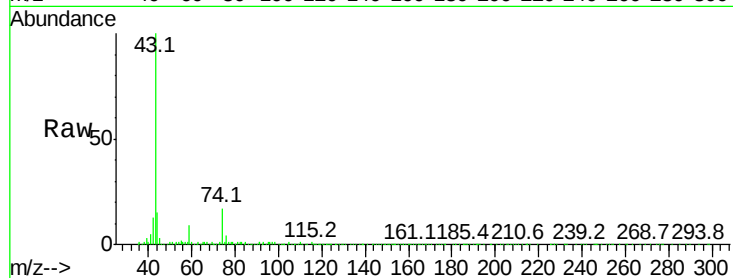




#15  
Methyl Acetate  
Concen: 31.584 ug/L  
RT: 4.19 min Scan# 413  
Delta R.T. -0.00 min  
Lab File: VR025774.D  
Acq: 20 Sep 2018 13:06

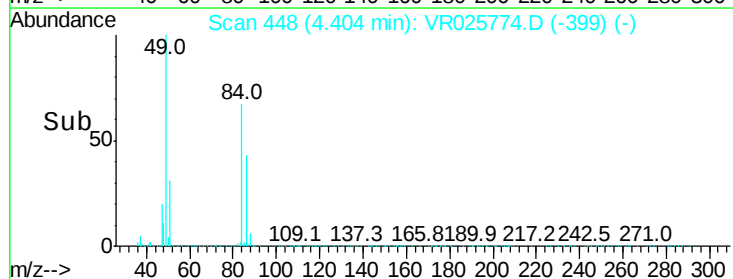
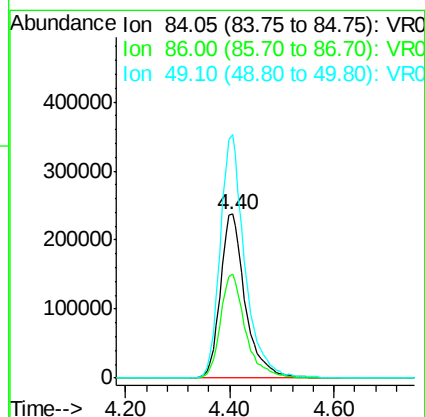
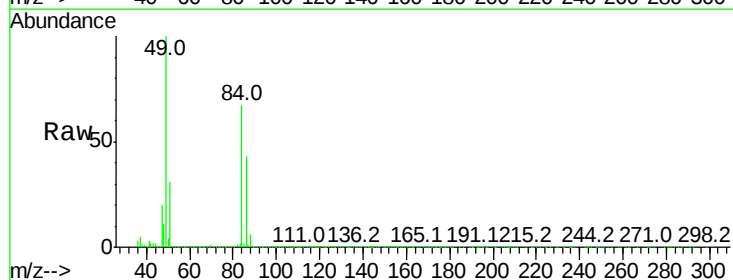
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02013

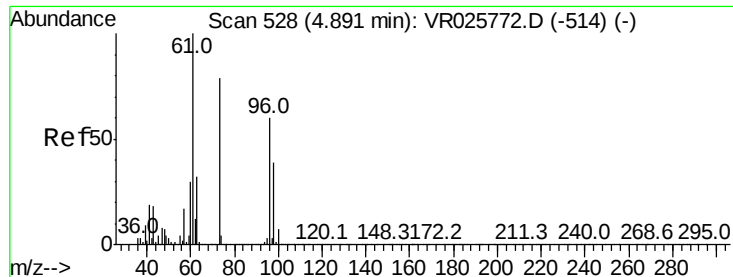
Tgt Ion: 43 Resp: 205263  
Ion Ratio Lower Upper  
43 100  
74 20.9 21.1 31.7#



#16  
Methylene chloride  
Concen: 22.296 ug/L  
RT: 4.40 min Scan# 448  
Delta R.T. -0.00 min  
Lab File: VR025774.D  
Acq: 20 Sep 2018 13:06

Tgt Ion: 84 Resp: 793722  
Ion Ratio Lower Upper  
84 100  
86 63.6 44.2 82.0  
49 148.3 103.9 192.9

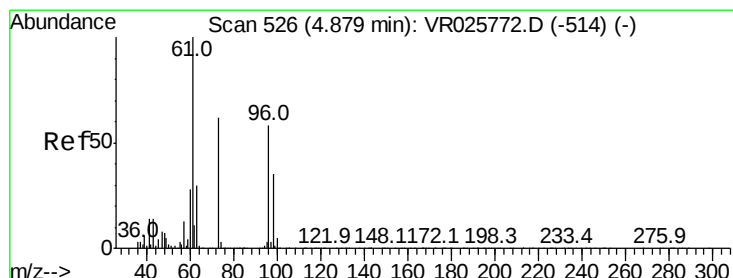
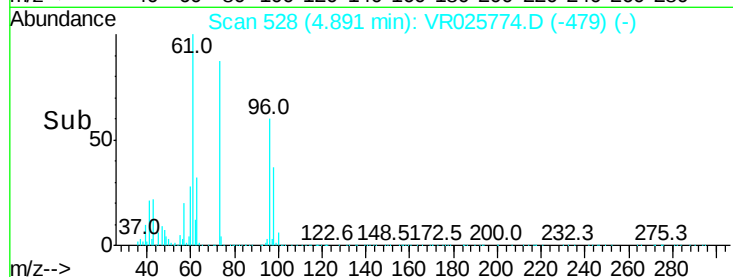
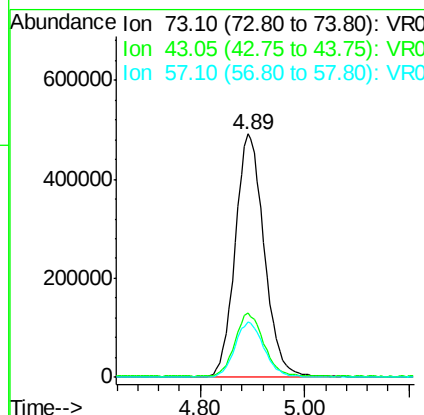
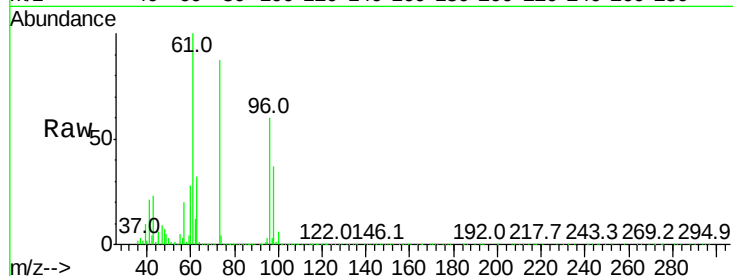




#17  
Methyl tert-butyl Ether  
Concen: 38.434 ug/L  
RT: 4.89 min Scan# 528  
Delta R.T. -0.00 min  
Lab File: VR025774.D  
Acq: 20 Sep 2018 13:06

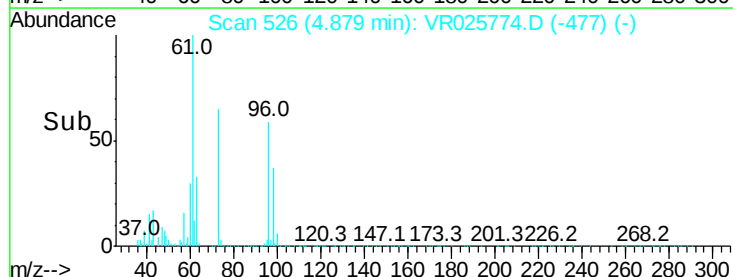
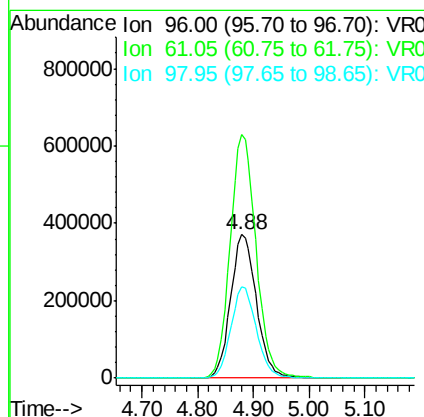
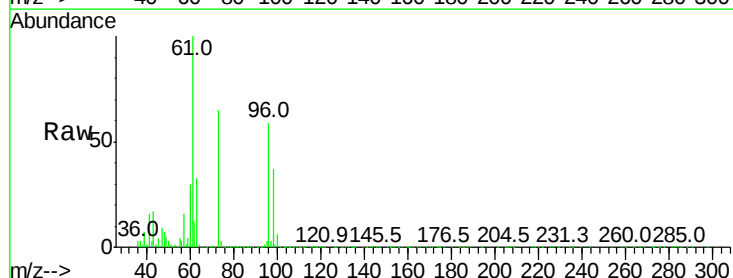
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02013

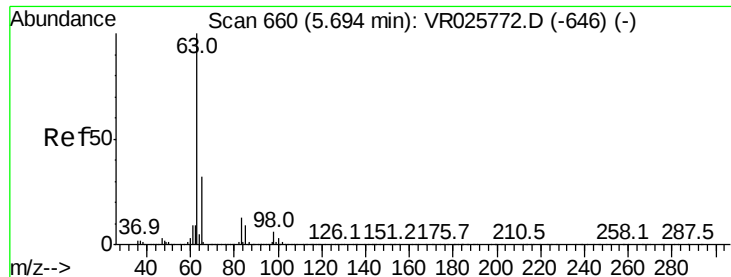
Tgt Ion: 73 Resp: 1901090  
Ion Ratio Lower Upper  
73 100  
43 25.6 20.4 30.6  
57 22.4 17.8 26.6



#18  
trans-1,2-Dichloroethene  
Concen: 24.107 ug/L  
RT: 4.88 min Scan# 526  
Delta R.T. -0.00 min  
Lab File: VR025774.D  
Acq: 20 Sep 2018 13:06

Tgt Ion: 96 Resp: 1184674  
Ion Ratio Lower Upper  
96 100  
61 169.6 121.4 225.6  
98 63.5 42.7 79.3



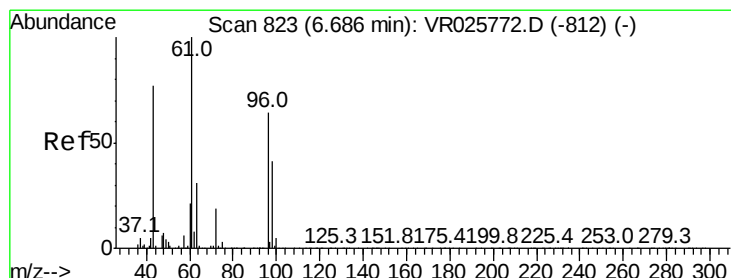
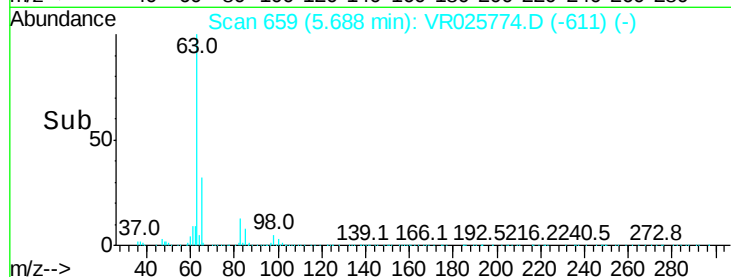
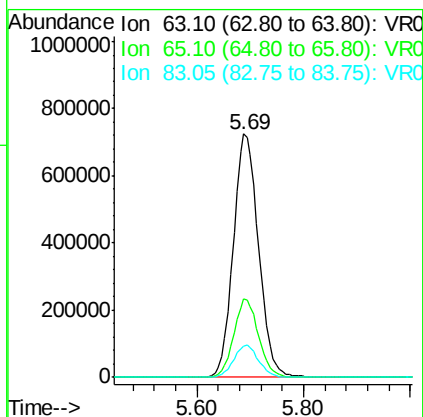
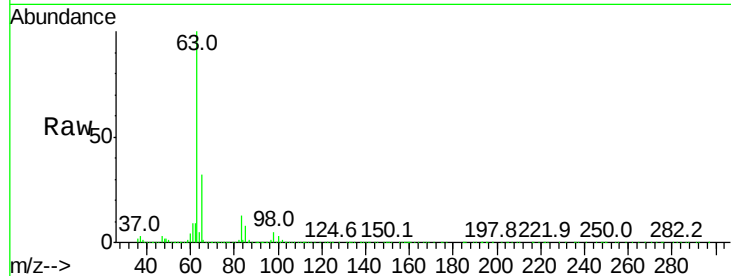


#19  
 1,1-Dichloroethane  
 Concen: 31.404 ug/L  
 RT: 5.69 min Scan# 659  
 Delta R.T. -0.01 min  
 Lab File: VR025774.D  
 Acq: 20 Sep 2018 13:06

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD02013

Tgt Ion: 63 Resp: 2379569

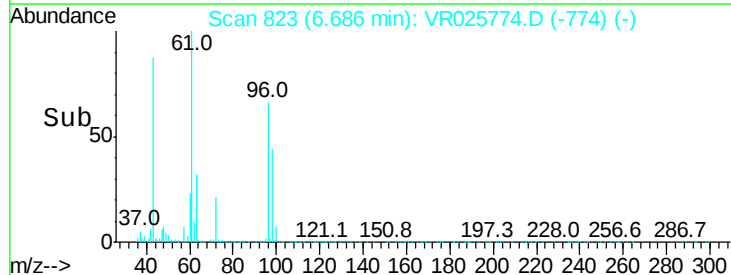
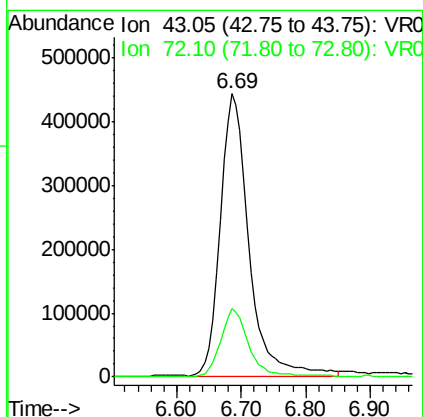
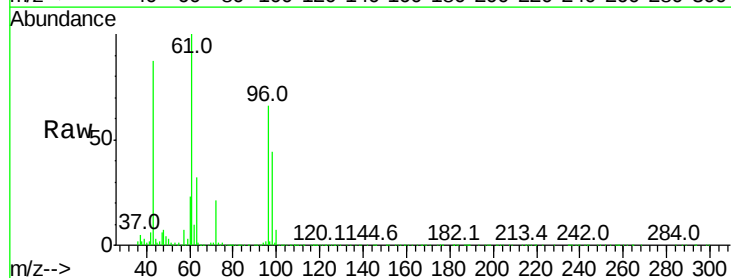
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 32.2  | 22.7  | 42.1  |
| 83  | 12.7  | 9.3   | 17.3  |

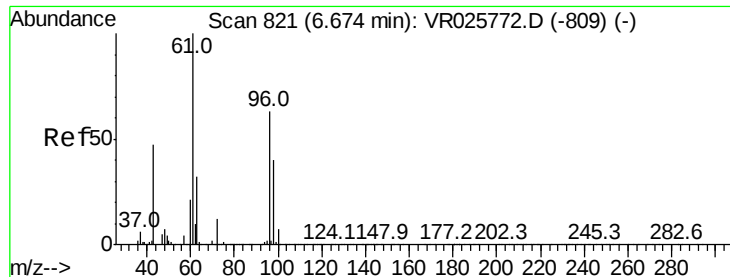


#21  
 2-Butanone  
 Concen: 359.617 ug/L  
 RT: 6.69 min Scan# 823  
 Delta R.T. -0.00 min  
 Lab File: VR025774.D  
 Acq: 20 Sep 2018 13:06

Tgt Ion: 43 Resp: 1383432

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 23.4  | 12.4  | 37.0  |



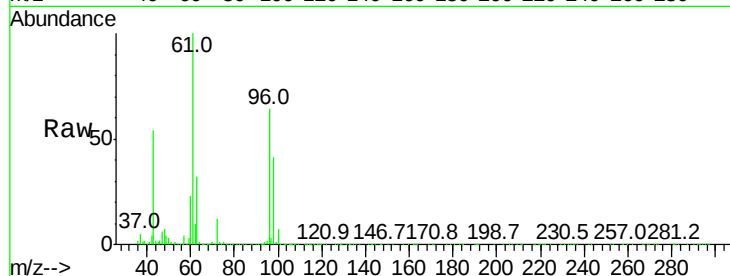


#22

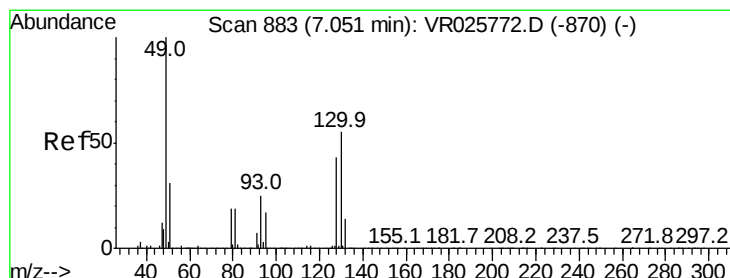
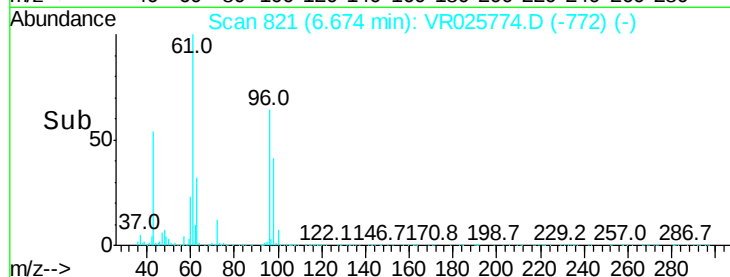
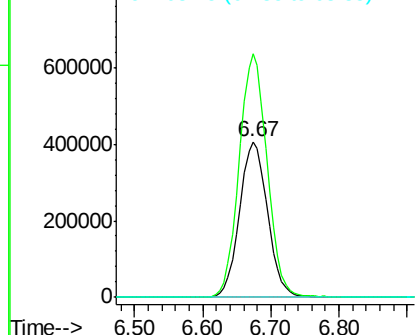
cis-1,2-Dichloroethene  
Concen: 27.190 ug/L  
RT: 6.67 min Scan# 821  
Delta R.T. -0.00 min  
Lab File: VR025774.D  
Acq: 20 Sep 2018 13:06

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02013

Tgt Ion: 96 Resp: 1162489  
Ion Ratio Lower Upper  
96 100  
61 156.1 110.8 205.8  
68 0.0 0.1 0.1#



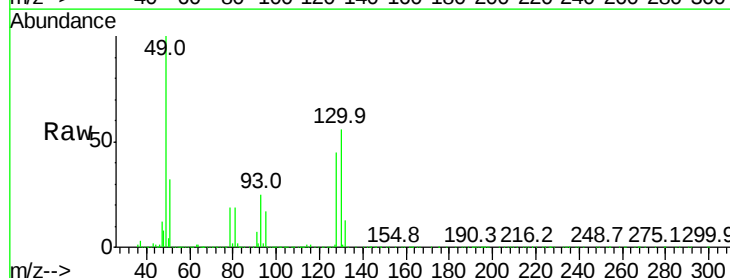
Abundance Ion 96.00 (95.70 to 96.70): VR0  
Ion 61.05 (60.75 to 61.75): VR0  
Ion 68.15 (67.85 to 68.85): VR0



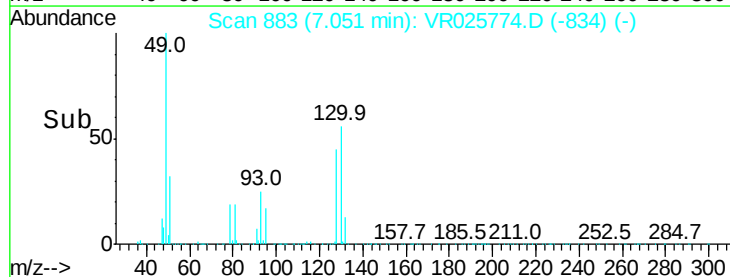
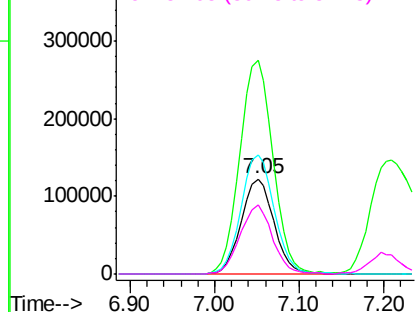
#23

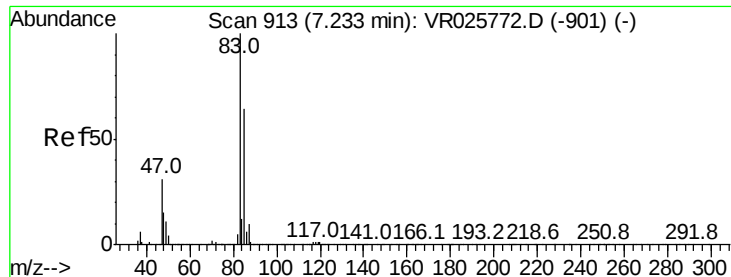
Bromochloromethane  
Concen: 22.026 ug/L  
RT: 7.05 min Scan# 883  
Delta R.T. -0.00 min  
Lab File: VR025774.D  
Acq: 20 Sep 2018 13:06

Tgt Ion: 128 Resp: 323056  
Ion Ratio Lower Upper  
128 100  
49 224.4 161.5 299.9  
130 125.1 89.5 166.1  
51 72.8 58.4 87.6



Abundance Ion 127.90 (127.60 to 128.60): V  
Ion 49.10 (48.80 to 49.80): VR0  
Ion 129.95 (129.65 to 130.65): V  
Ion 51.05 (50.75 to 51.75): VR0





#25

Chloroform

Concen: 31.275 ug/L

RT: 7.23 min Scan# 913

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampleId :

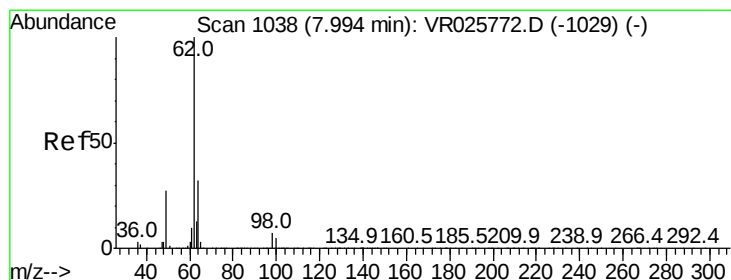
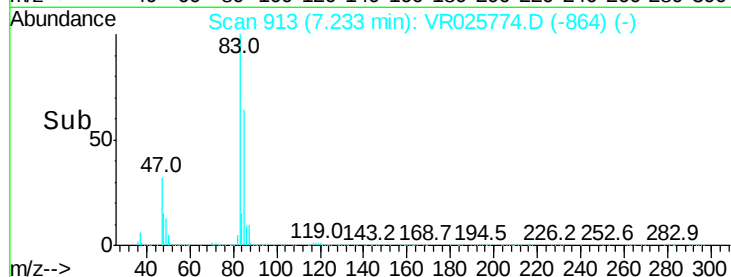
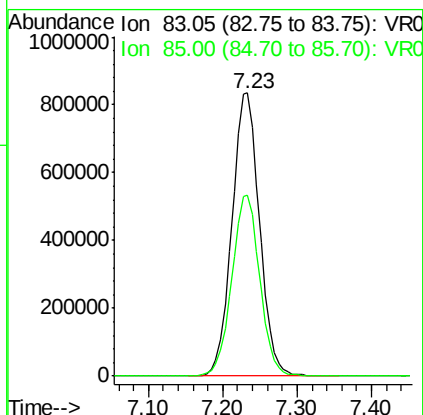
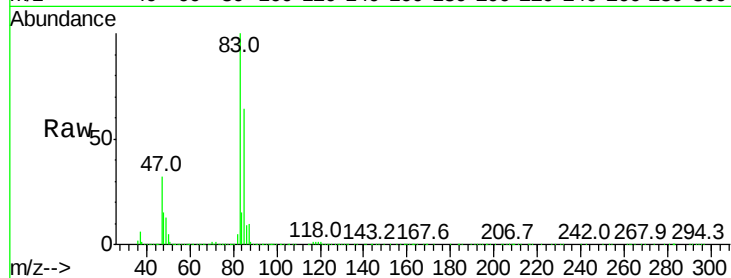
VSTD02013

Tgt Ion: 83 Resp: 2165223

Ion Ratio Lower Upper

83 100

85 64.0 44.8 83.2



#27

1,2-Dichloroethane

Concen: 41.283 ug/L

RT: 7.99 min Scan# 1038

Delta R.T. -0.00 min

Lab File: VR025774.D

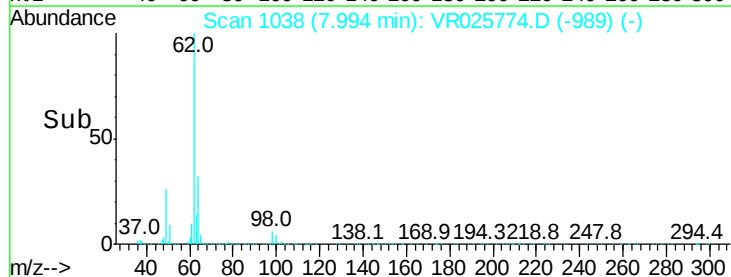
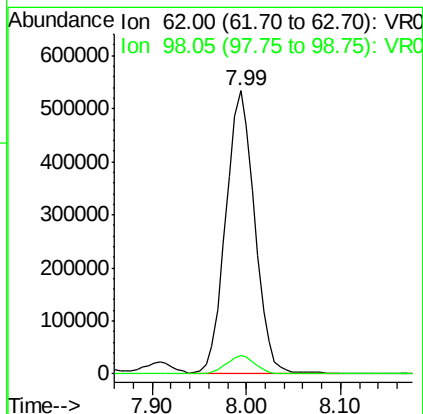
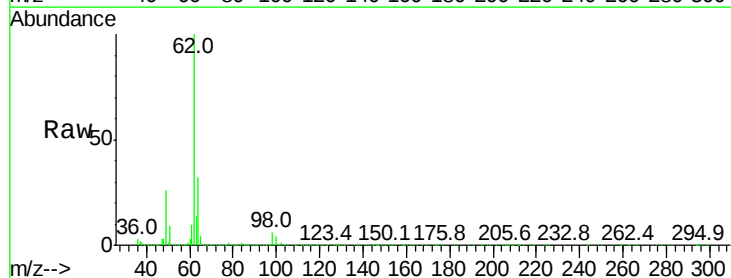
Acq: 20 Sep 2018 13:06

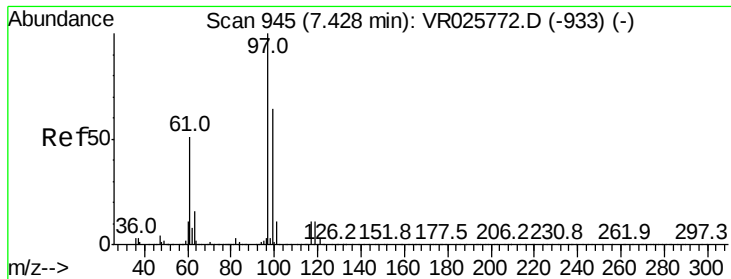
Tgt Ion: 62 Resp: 1127801

Ion Ratio Lower Upper

62 100

98 6.3 5.5 8.3



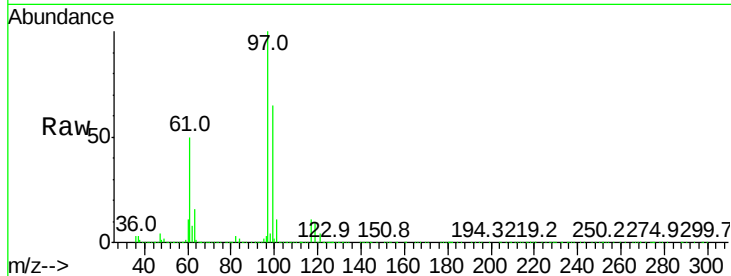


#29  
 1,1,1-Trichloroethane  
 Concen: 42.760 ug/L  
 RT: 7.43 min Scan# 946  
 Delta R.T. 0.01 min  
 Lab File: VR025774.D  
 Acq: 20 Sep 2018 13:06

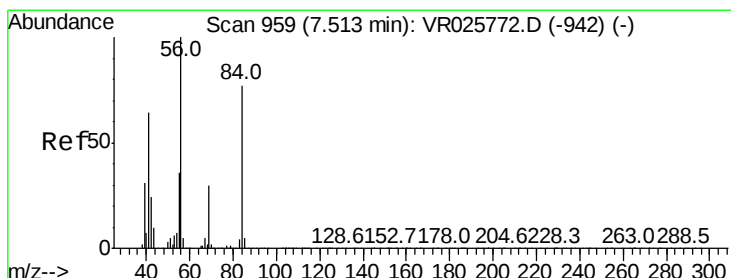
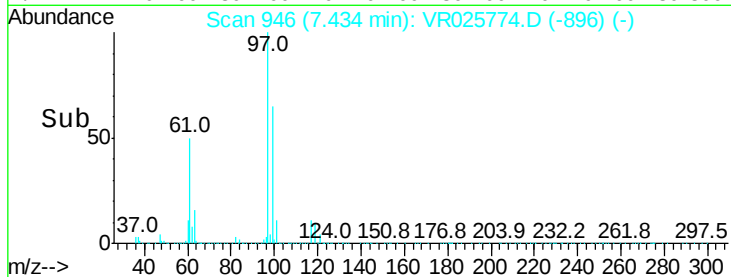
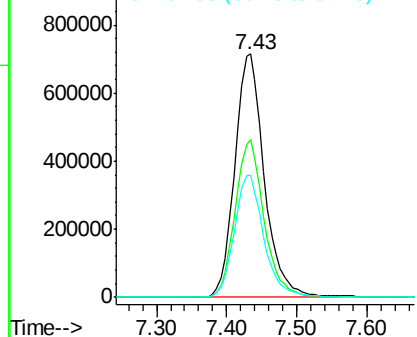
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD02013

Tgt Ion: 97 Resp: 2083079

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 64.1  | 51.0  | 76.6  |
| 61  | 50.3  | 40.4  | 60.6  |



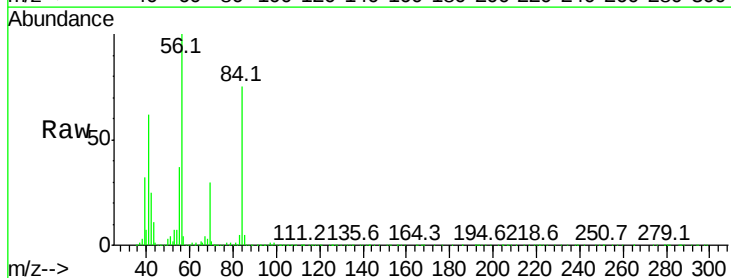
Abundance Ion 96.95 (96.65 to 97.65): VR0  
 Ion 99.05 (98.75 to 99.75): VR0  
 Ion 61.05 (60.75 to 61.75): VR0



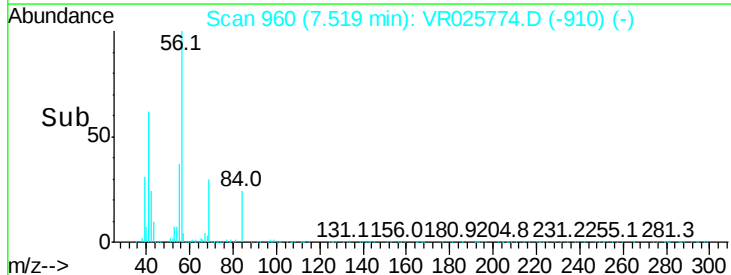
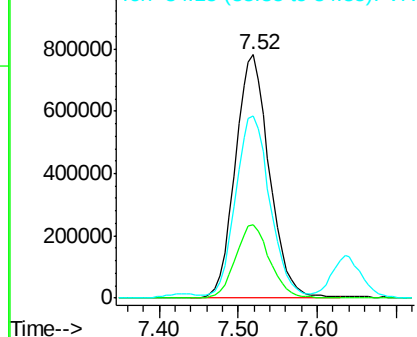
#30  
 Cyclohexane  
 Concen: 39.972 ug/L  
 RT: 7.52 min Scan# 960  
 Delta R.T. 0.01 min  
 Lab File: VR025774.D  
 Acq: 20 Sep 2018 13:06

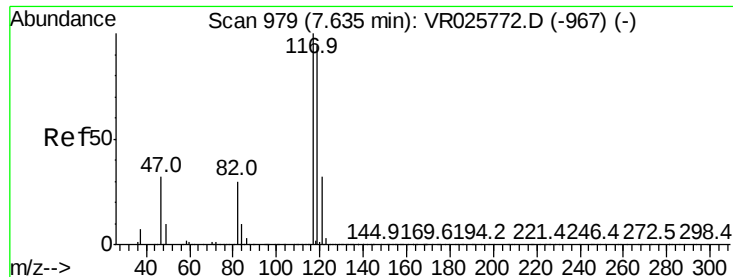
Tgt Ion: 56 Resp: 2339944

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 30.2  | 24.0  | 36.0  |
| 84  | 75.5  | 60.2  | 90.4  |



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: 38.593 ug/L

RT: 7.63 min Scan# 979

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampleId :

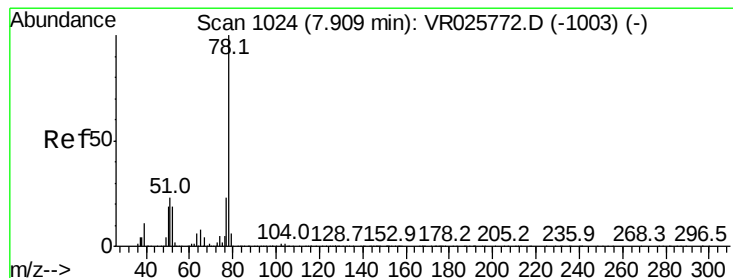
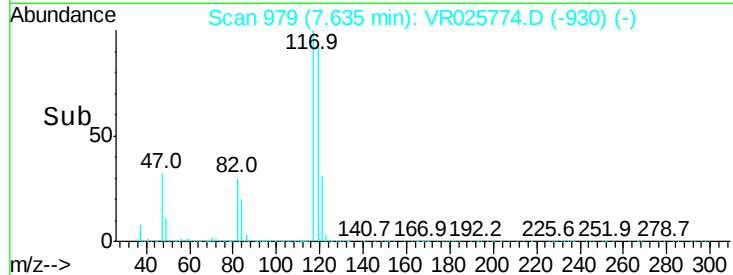
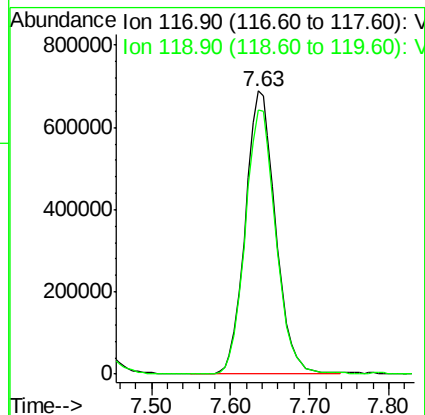
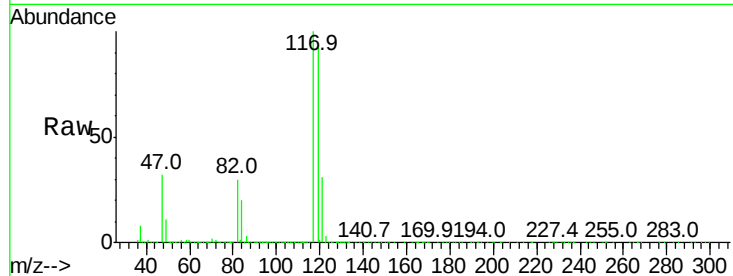
VSTD02013

Tgt Ion:117 Resp: 1822441

Ion Ratio Lower Upper

117 100

119 95.1 76.5 114.7



#33

Benzene

Concen: 27.016 ug/L

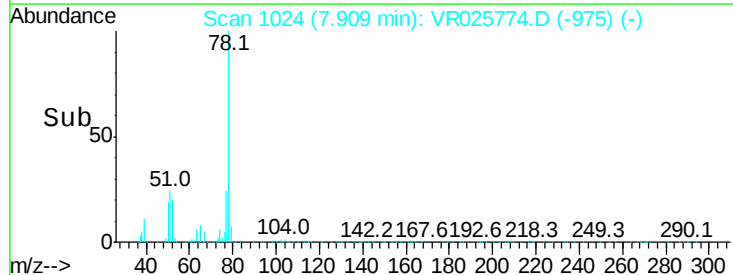
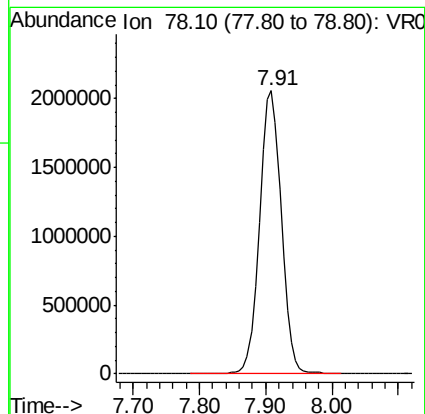
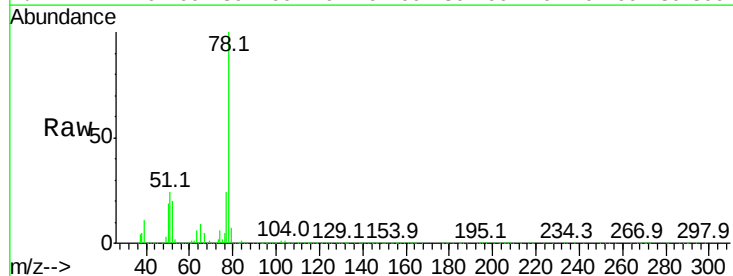
RT: 7.91 min Scan# 1024

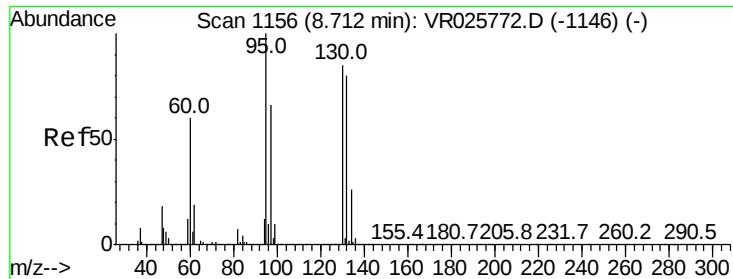
Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Tgt Ion: 78 Resp: 4707071

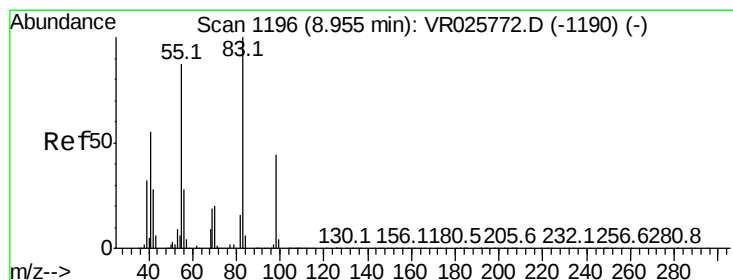
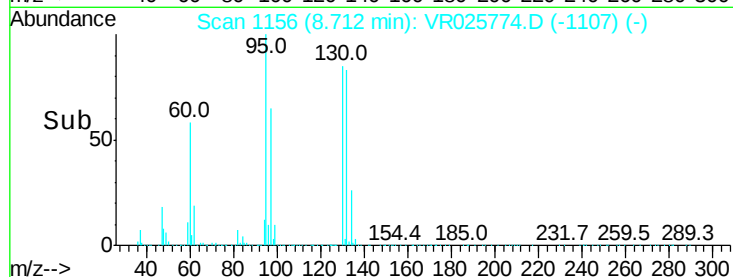
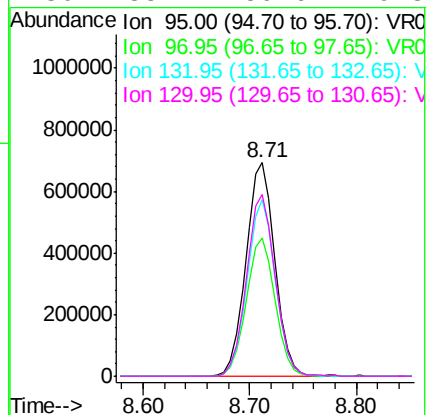
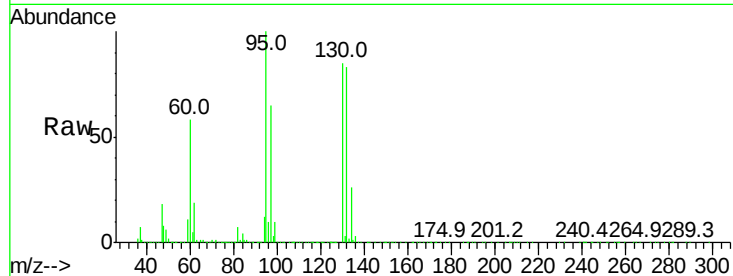




#34  
 Trichloroethene  
 Concen: 31.203 ug/L  
 RT: 8.71 min Scan# 1156  
 Delta R.T. -0.00 min  
 Lab File: VR025774.D  
 Acq: 20 Sep 2018 13:06

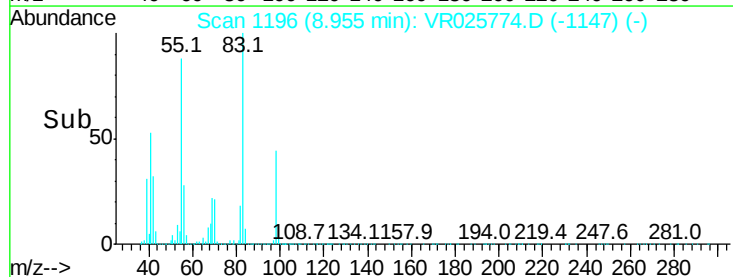
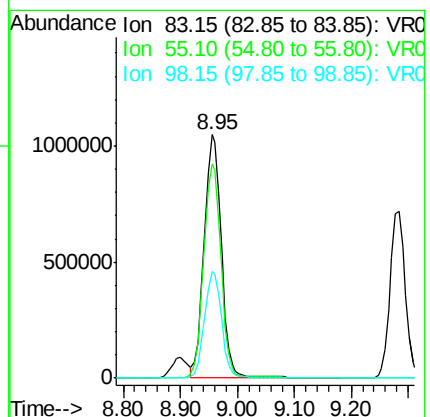
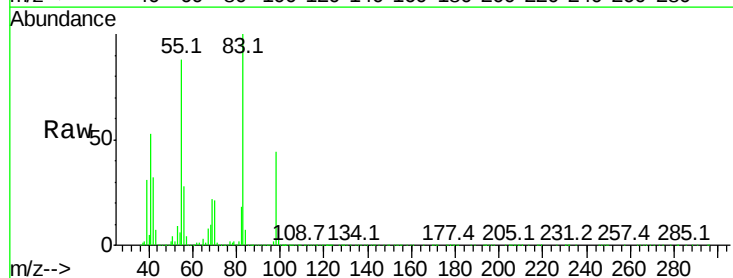
Instrument :  
 MSVOA\_R  
 ClientSampled :  
 VSTD02013

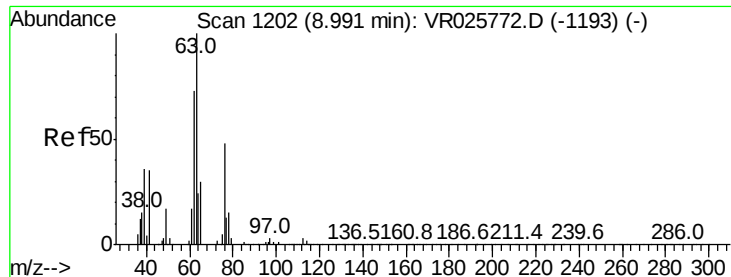
Tgt Ion: 95 Resp: 1317657  
 Ion Ratio Lower Upper  
 95 100  
 97 64.9 46.2 85.8  
 132 82.9 56.0 104.0  
 130 85.1 59.6 110.8



#35  
 Methylcyclohexane  
 Concen: 33.807 ug/L  
 RT: 8.95 min Scan# 1196  
 Delta R.T. -0.00 min  
 Lab File: VR025774.D  
 Acq: 20 Sep 2018 13:06

Tgt Ion: 83 Resp: 2203349  
 Ion Ratio Lower Upper  
 83 100  
 55 88.9 70.3 105.5  
 98 43.4 34.4 51.6





#37

1,2-Dichloropropane

Concen: 26.742 ug/L

RT: 9.00 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampleId :

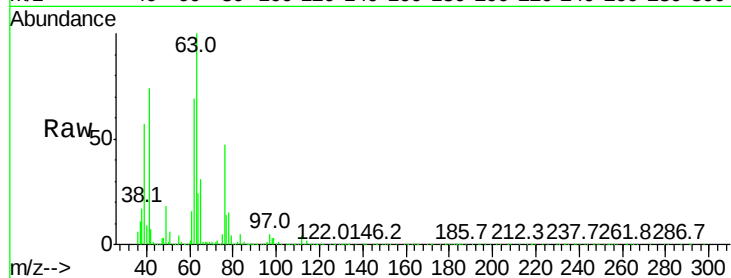
VSTD02013

Tgt Ion: 63 Resp: 1050393

Ion Ratio Lower Upper

63 100

112 3.5 3.0 4.6



Abundance Ion 63.10 (62.80 to 63.80): VR0

Ion 112.10 (111.80 to 112.80): V

9.00

600000

500000

400000

300000

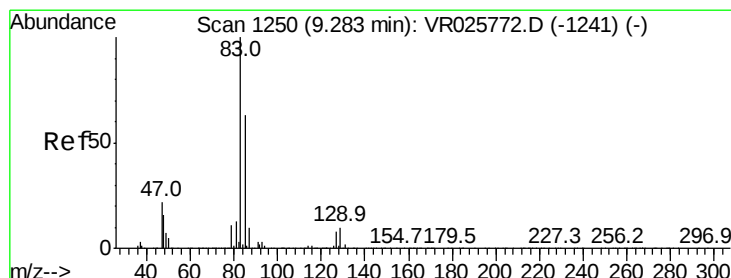
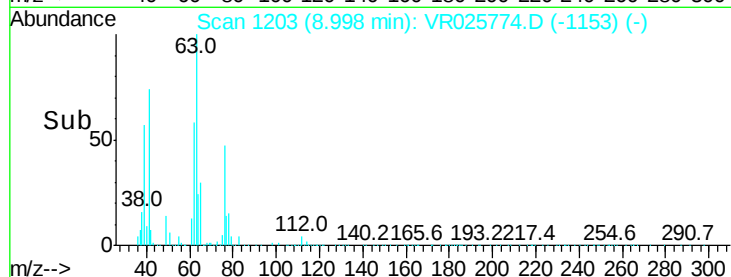
200000

100000

0

8.90 9.00 9.10

Time-->



#38

Bromodichloromethane

Concen: 37.492 ug/L

RT: 9.28 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

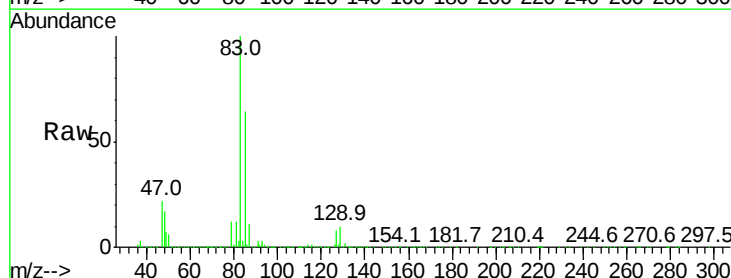
Tgt Ion: 83 Resp: 1322493

Ion Ratio Lower Upper

83 100

85 64.1 44.2 82.0

127 7.9 6.0 9.0



Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 126.90 (126.60 to 127.60): V

9.28

1000000

800000

600000

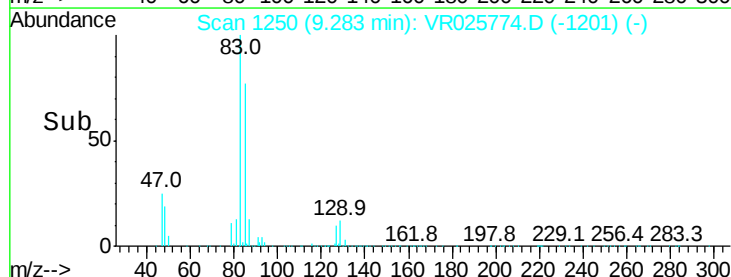
400000

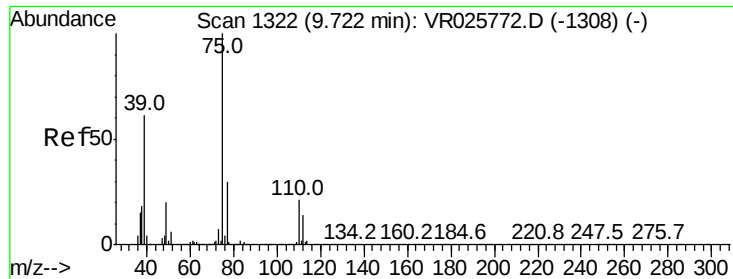
200000

0

9.20 9.30 9.40

Time-->





#39

cis-1,3-Dichloropropene

Concen: 36.456 ug/L

RT: 9.72 min Scan# 1322

Delta R.T. -0.00 min

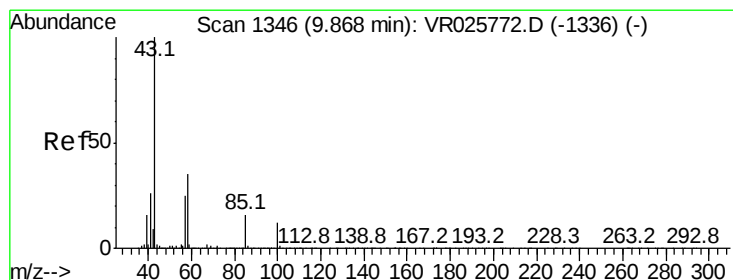
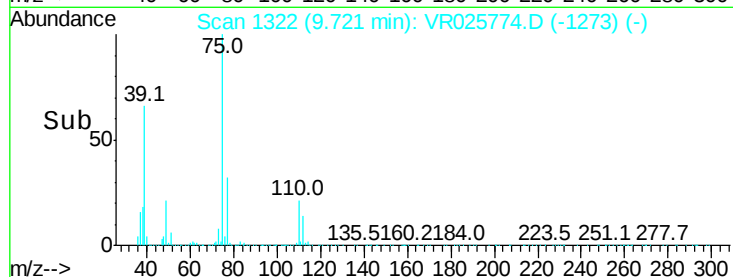
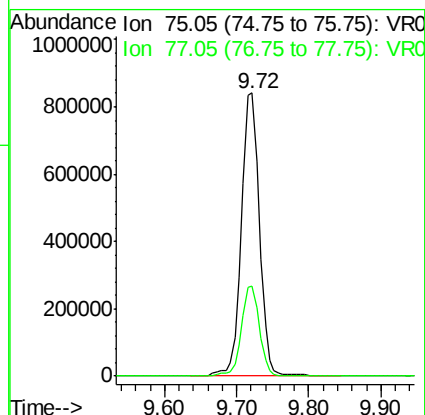
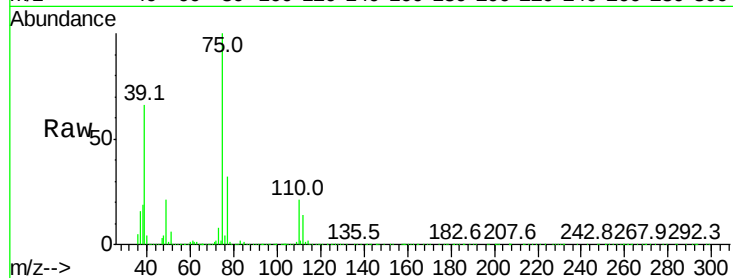
Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02013

Tgt Ion: 75 Resp: 1464311

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 31.6  | 21.2  | 39.4  |



#40

4-Methyl-2-pentanone

Concen: 369.237 ug/L

RT: 9.87 min Scan# 1346

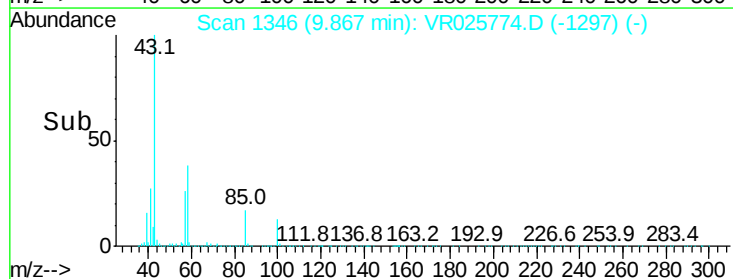
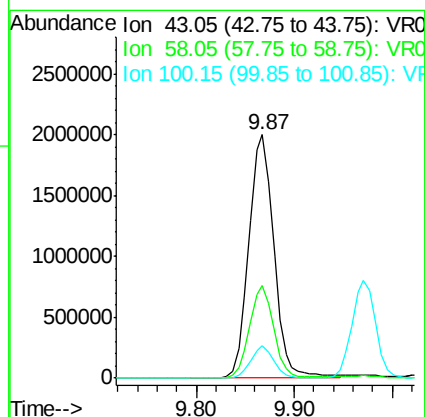
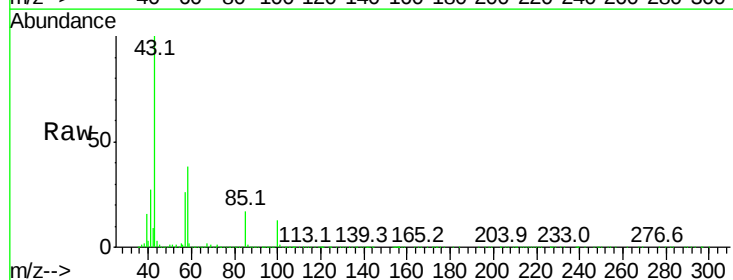
Delta R.T. -0.00 min

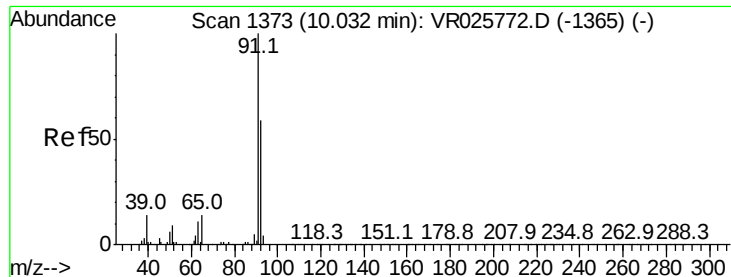
Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Tgt Ion: 43 Resp: 3585065

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 36.6  | 28.3  | 42.5  |
| 100 | 12.1  | 9.3   | 13.9  |





#42

Toluene

Concen: 26.571 ug/L

RT: 10.04 min Scan# 1374

Delta R.T. 0.01 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampleId :

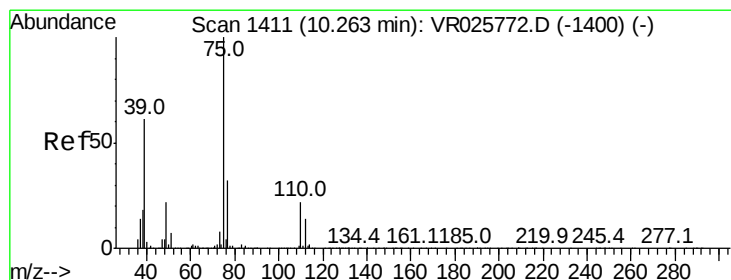
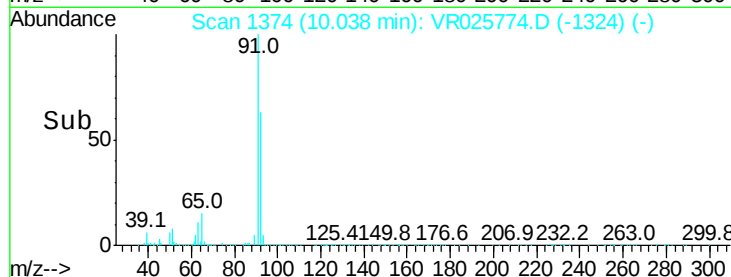
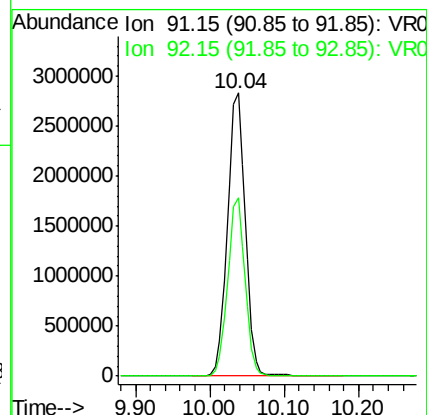
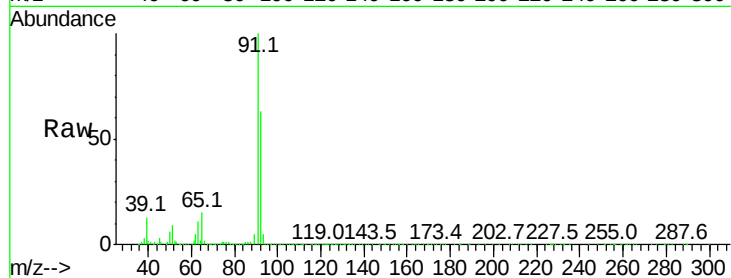
VSTD02013

Tgt Ion: 91 Resp: 4738683

Ion Ratio Lower Upper

91 100

92 62.9 41.1 76.3



#44

trans-1,3-Dichloropropene

Concen: 39.092 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. -0.00 min

Lab File: VR025774.D

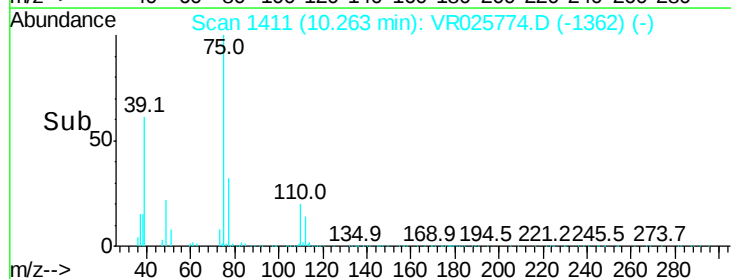
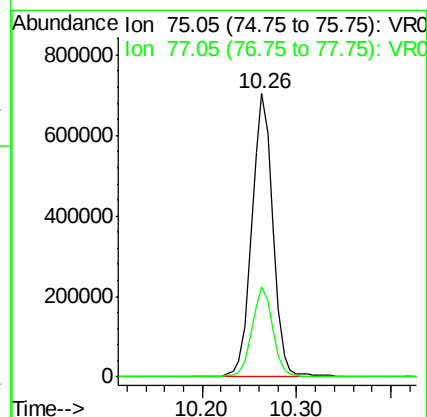
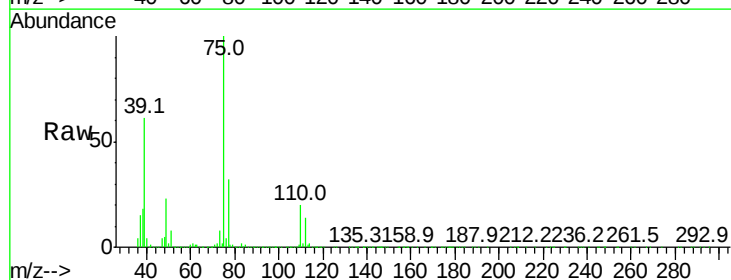
Acq: 20 Sep 2018 13:06

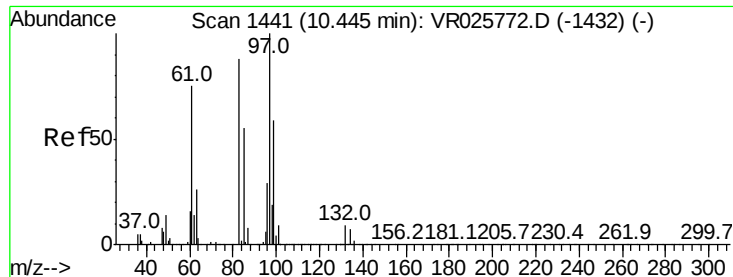
Tgt Ion: 75 Resp: 1104373

Ion Ratio Lower Upper

75 100

77 31.9 22.6 42.0





#45

1,1,2-Trichloroethane

Concen: 25.060 ug/L

RT: 10.45 min Scan# 1441

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampleId :

VSTD02013

Tgt Ion: 97 Resp: 461082

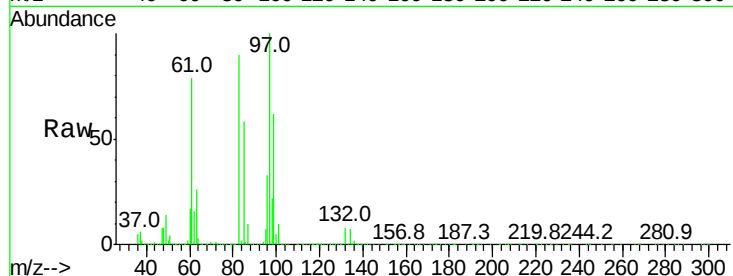
Ion Ratio Lower Upper

97 100

99 62.5 41.2 76.4

83 89.7 61.3 113.9

85 57.7 38.9 72.2

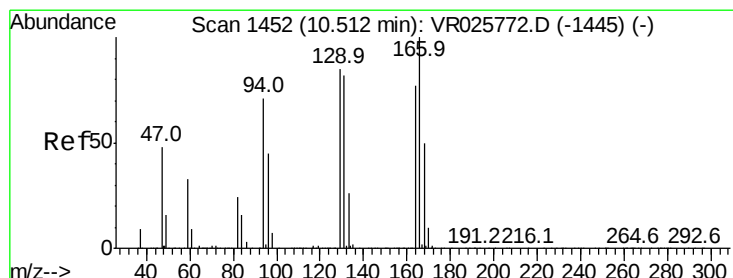
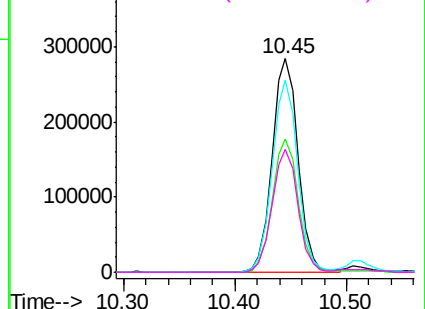
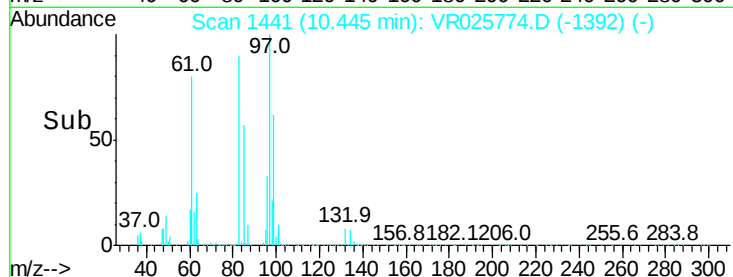


Abundance Ion 96.95 (96.65 to 97.65): VR0

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: 23.893 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Tgt Ion: 164 Resp: 826260

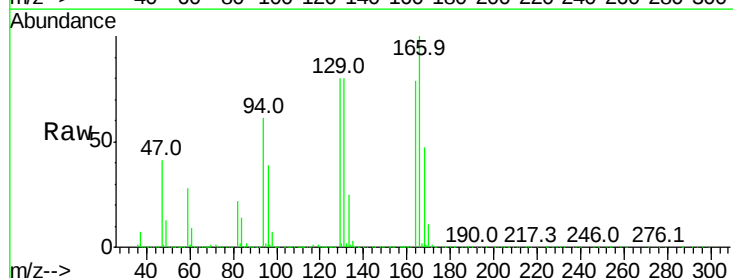
Ion Ratio Lower Upper

164 100

129 102.4 77.5 143.9

131 101.3 74.3 138.1

166 127.3 91.1 169.1

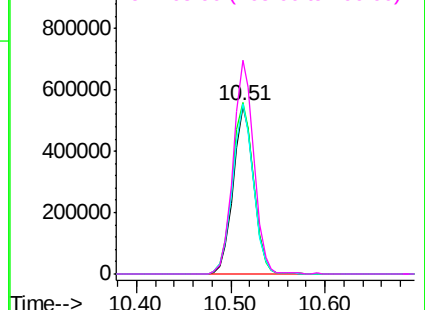
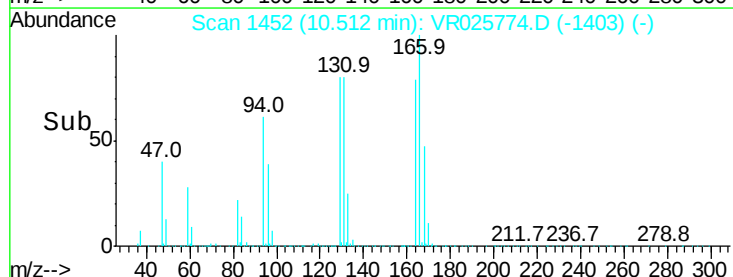


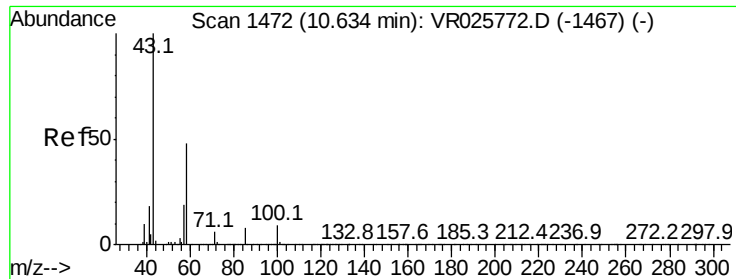
Abundance Ion 163.90 (163.60 to 164.60): V

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



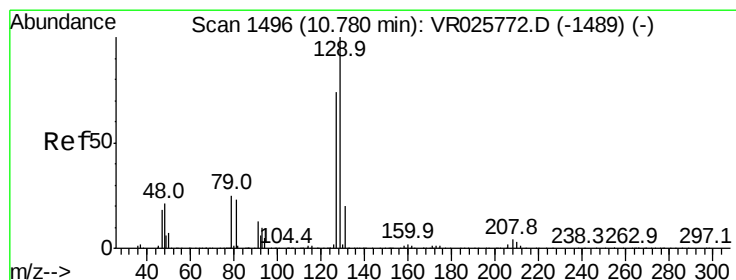
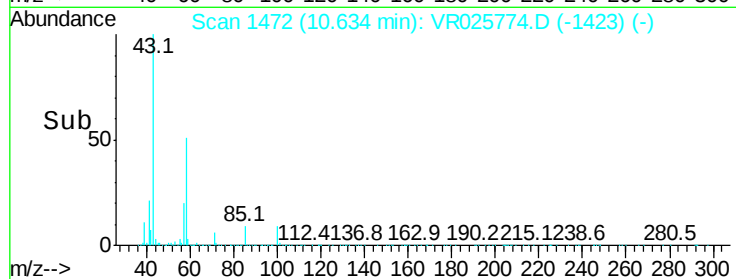
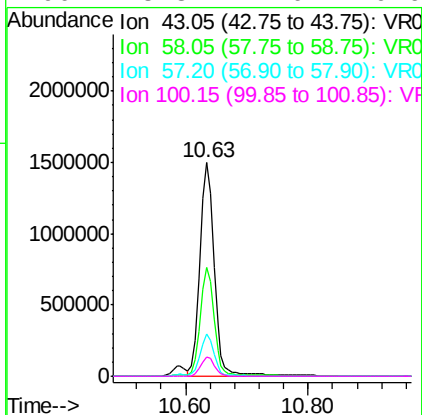
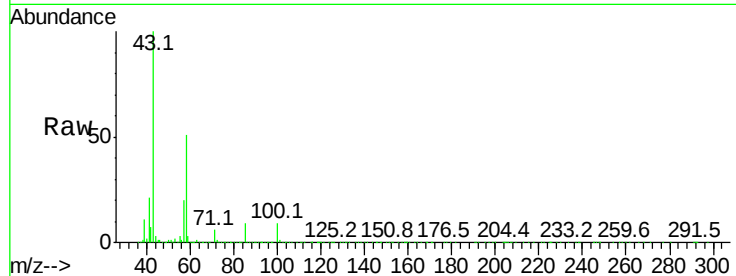


#48  
2-Hexanone  
Concen: 357.771 ug/L  
RT: 10.63 min Scan# 1472  
Delta R.T. -0.00 min  
Lab File: VR025774.D  
Acq: 20 Sep 2018 13:06

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02013

Tgt Ion: 43 Resp: 2436167

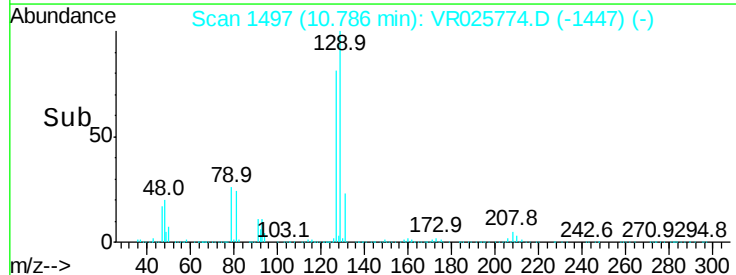
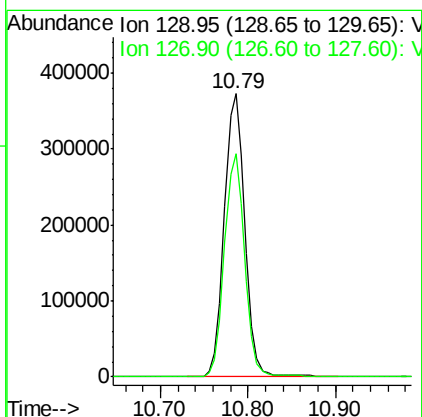
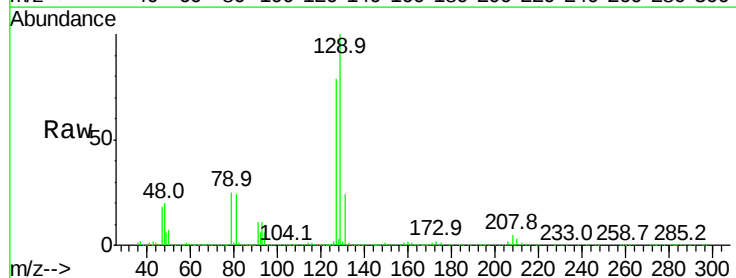
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 50.5  | 39.9  | 59.9  |
| 57  | 18.7  | 14.3  | 21.5  |
| 100 | 8.8   | 7.0   | 10.6  |

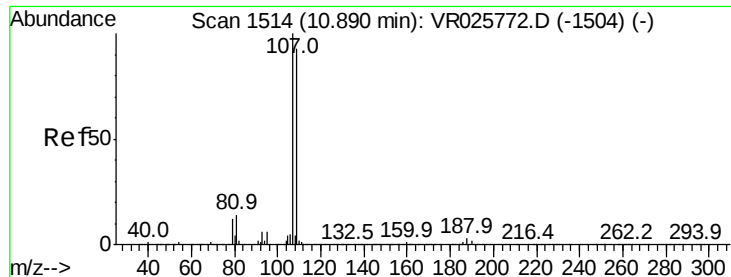


#49  
Dibromochloromethane  
Concen: 30.860 ug/L  
RT: 10.79 min Scan# 1497  
Delta R.T. 0.01 min  
Lab File: VR025774.D  
Acq: 20 Sep 2018 13:06

Tgt Ion: 129 Resp: 604781

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.9  | 51.9  | 96.5  |





#50

1,2-Dibromoethane

Concen: 29.138 ug/L

RT: 10.89 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

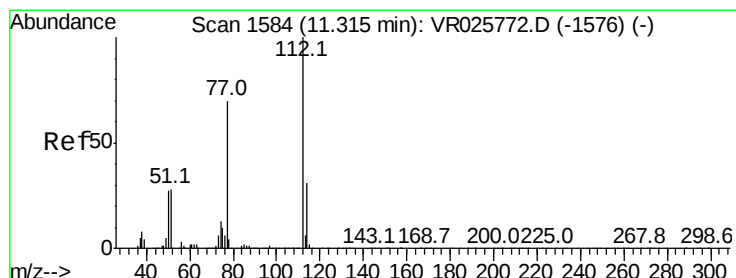
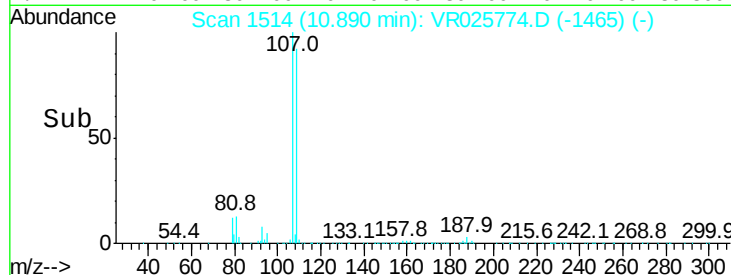
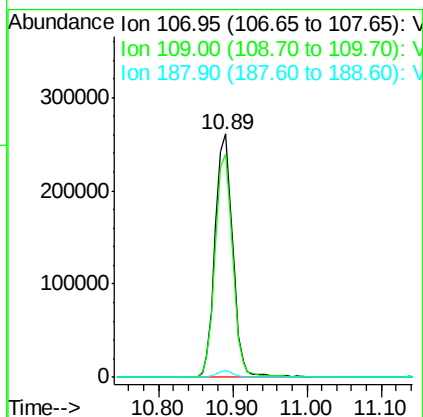
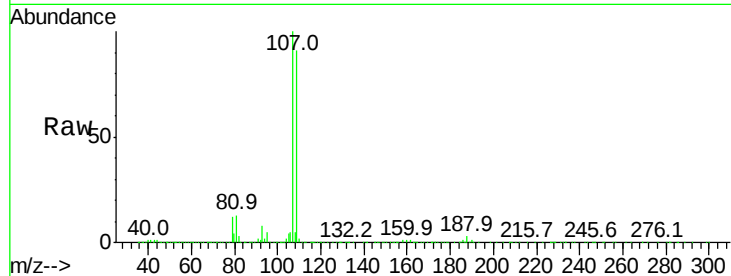
Instrument :

MSVOA\_R

ClientSampleId :

VSTD02013

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 425875 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 109      | 91.5  | 65.3  | 121.3  |
| 188      | 3.0   | 2.0   | 3.0#   |



#51

Chlorobenzene

Concen: 23.504 ug/L

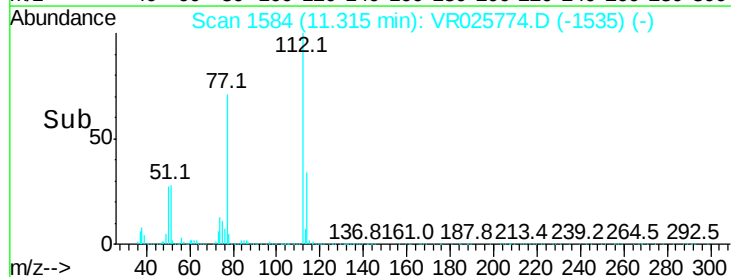
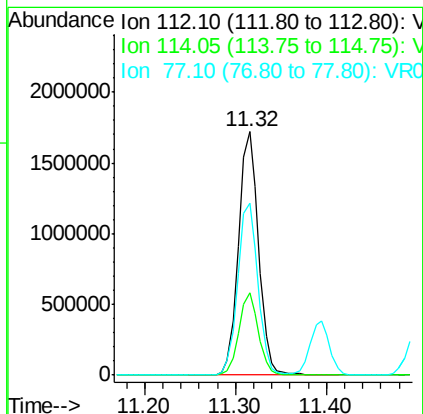
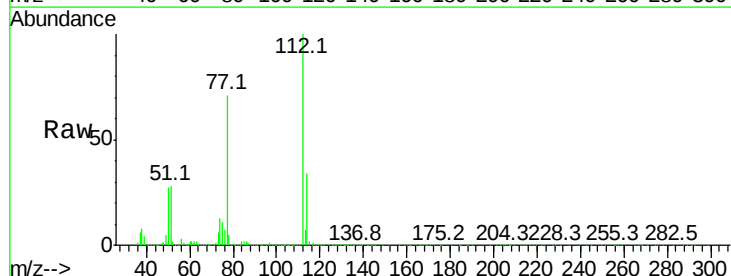
RT: 11.32 min Scan# 1584

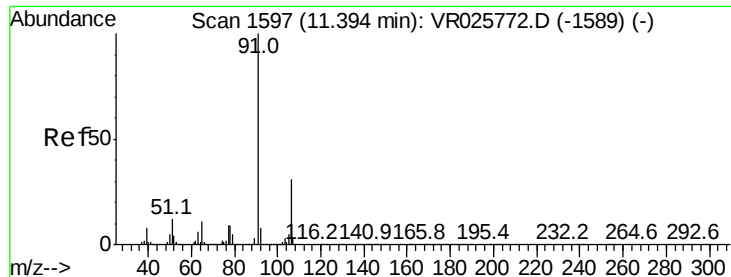
Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 112   | Resp: | 2634954 |
| Ion      | Ratio | Lower | Upper   |
| 112      | 100   |       |         |
| 114      | 33.9  | 22.0  | 41.0    |
| 77       | 70.8  | 56.3  | 84.5    |





#52

Ethylbenzene

Concen: 27.928 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampleId :

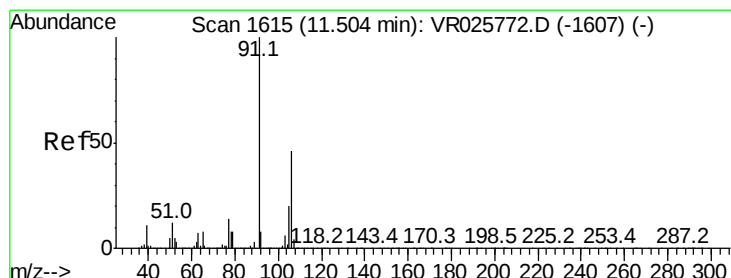
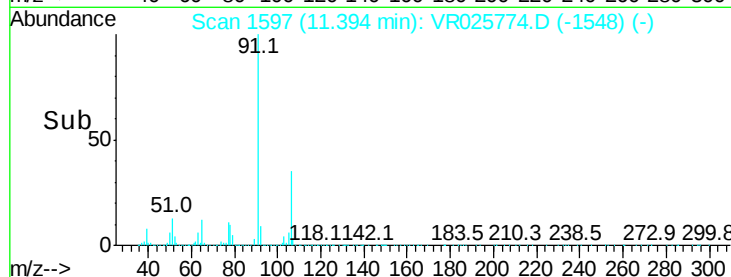
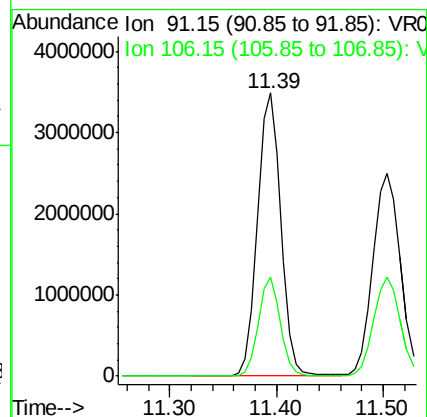
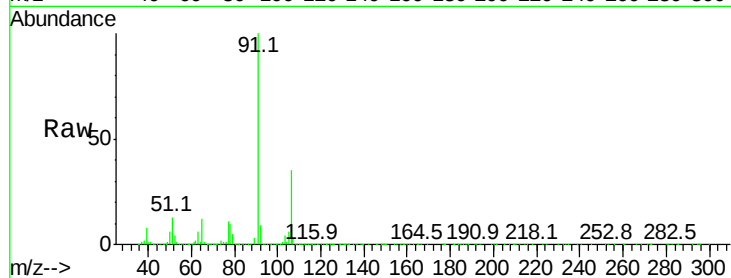
VSTD02013

Tgt Ion: 91 Resp: 5366580

Ion Ratio Lower Upper

91 100

106 35.0 21.4 39.8



#53

m,p-Xylene

Concen: 27.624 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VR025774.D

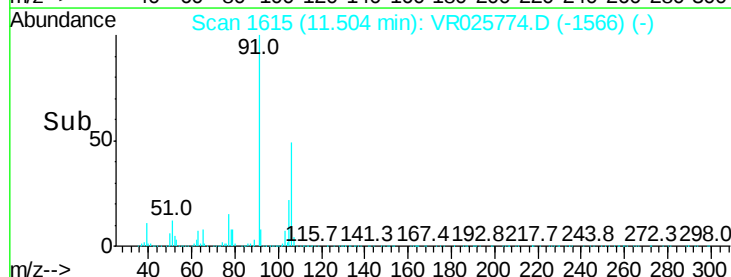
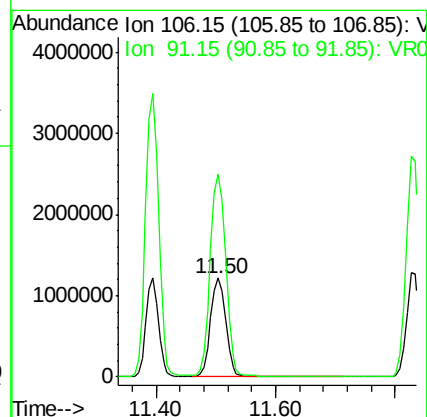
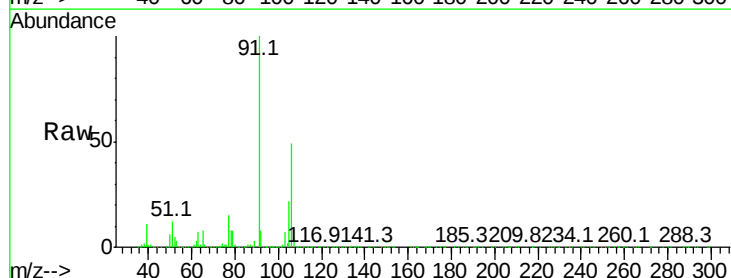
Acq: 20 Sep 2018 13:06

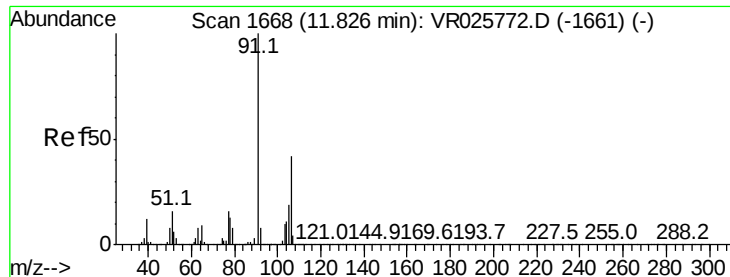
Tgt Ion: 106 Resp: 2135939

Ion Ratio Lower Upper

106 100

91 204.4 154.3 286.5

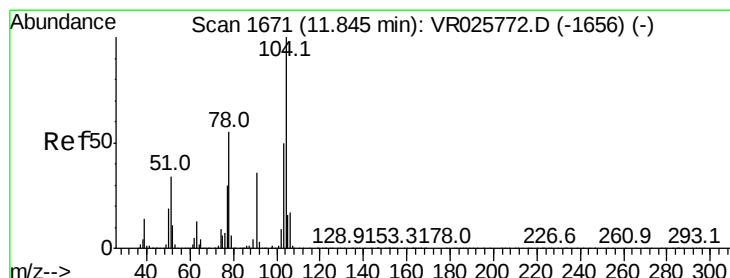
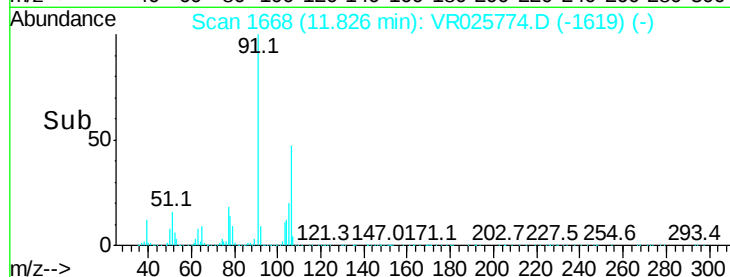
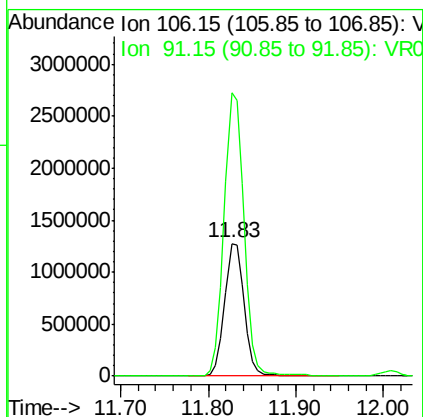
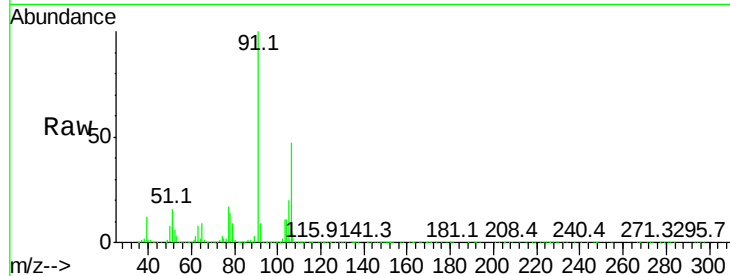




#54  
o-Xylene  
Concen: 29.011 ug/L  
RT: 11.83 min Scan# 1668  
Delta R.T. -0.00 min  
Lab File: VR025774.D  
Acq: 20 Sep 2018 13:06

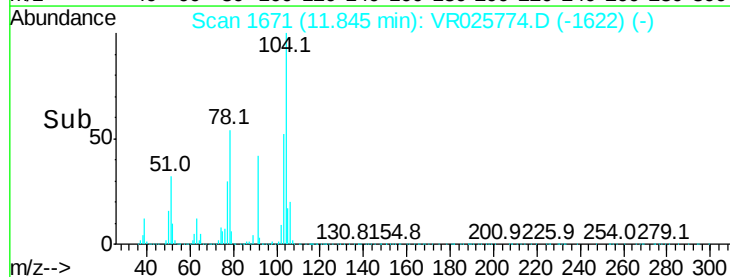
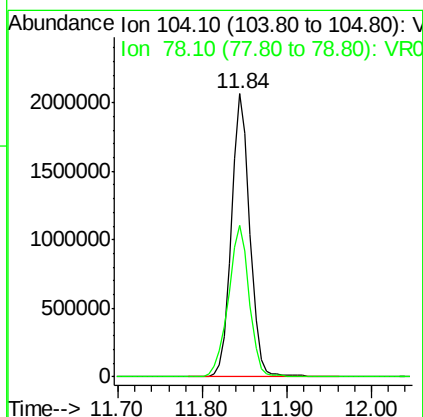
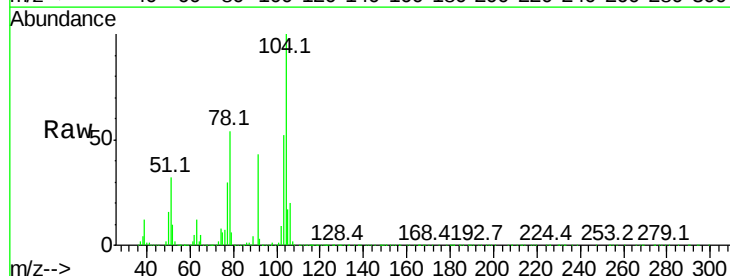
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD02013

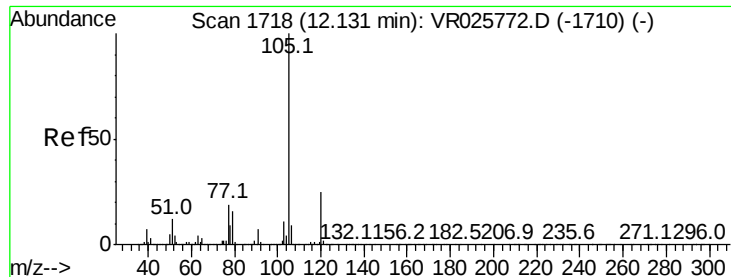
Tgt Ion:106 Resp: 1976283  
Ion Ratio Lower Upper  
106 100  
91 213.1 167.1 310.3



#55  
Styrene  
Concen: 28.023 ug/L  
RT: 11.84 min Scan# 1671  
Delta R.T. -0.00 min  
Lab File: VR025774.D  
Acq: 20 Sep 2018 13:06

Tgt Ion:104 Resp: 3074035  
Ion Ratio Lower Upper  
104 100  
78 53.7 38.1 70.9





#56

Isopropylbenzene

Concen: 29.986 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampleId :

VSTD02013

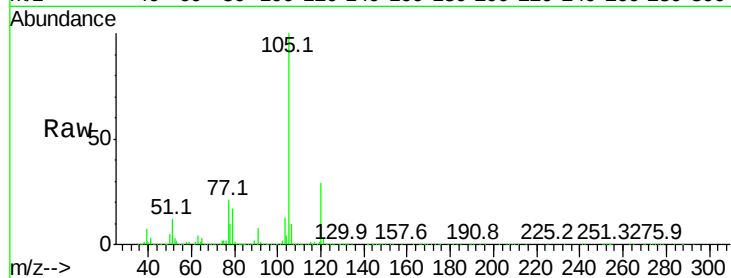
Tgt Ion:105 Resp: 5089914

Ion Ratio Lower Upper

105 100

120 27.6 20.1 30.1

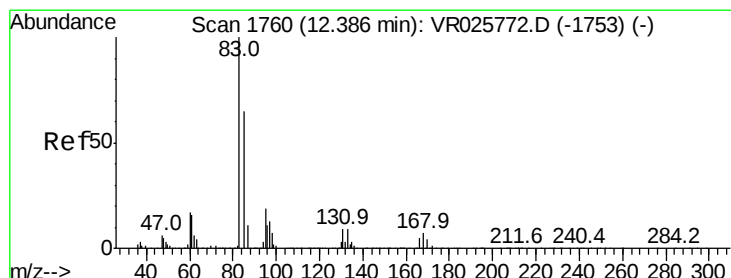
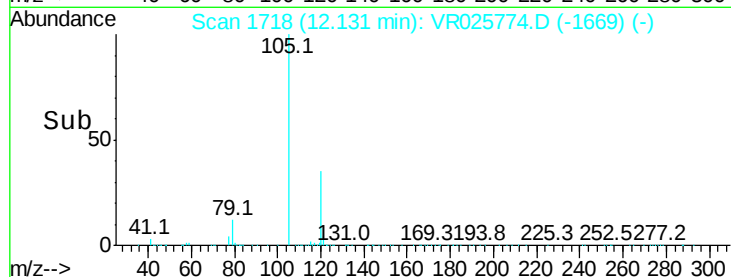
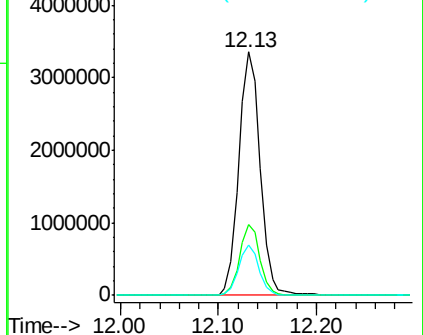
77 19.7 15.3 22.9



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: 25.286 ug/L

RT: 12.39 min Scan# 1760

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

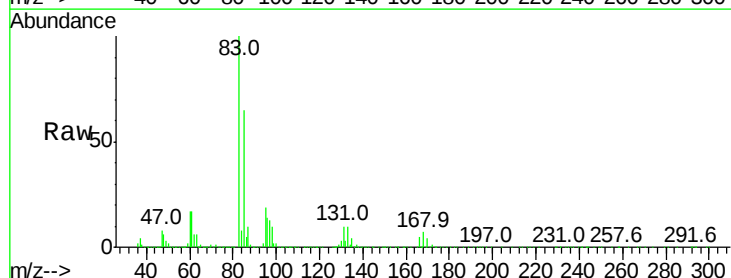
Tgt Ion: 83 Resp: 453108

Ion Ratio Lower Upper

83 100

85 65.0 45.4 84.4

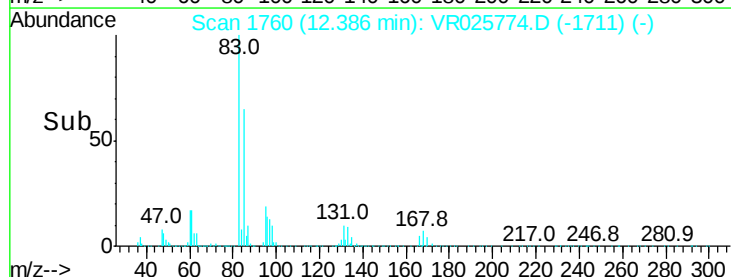
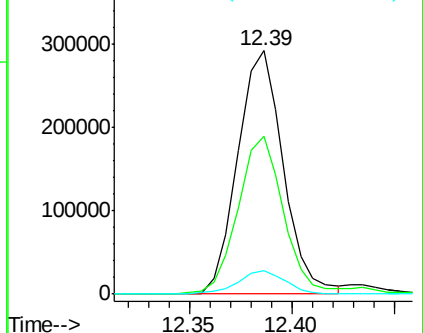
131 9.8 7.5 11.3

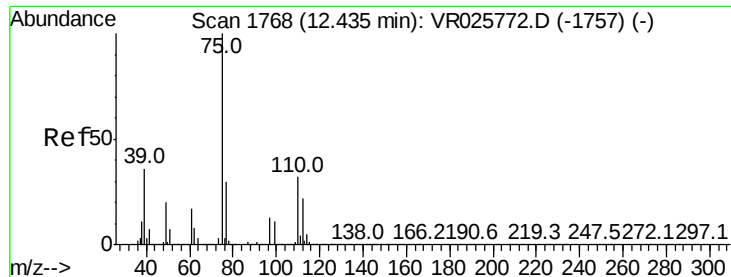


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 30.306 ug/L

RT: 12.43 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampled :

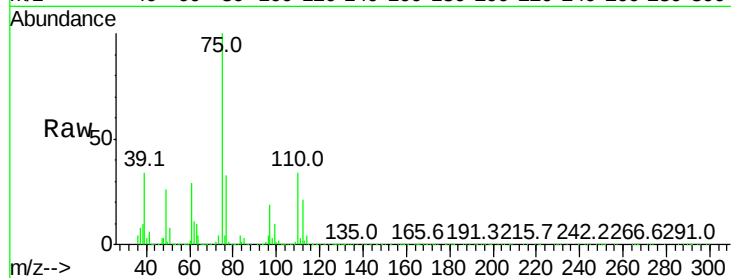
VSTD02013

Tgt Ion: 75 Resp: 365263

Ion Ratio Lower Upper

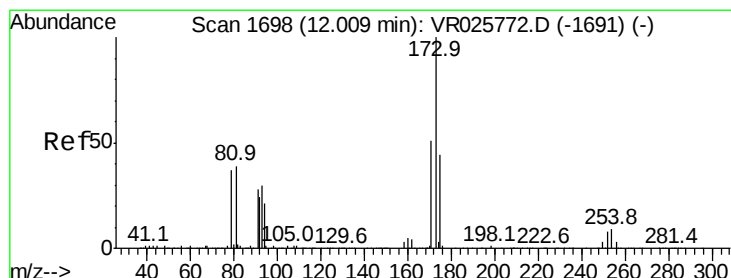
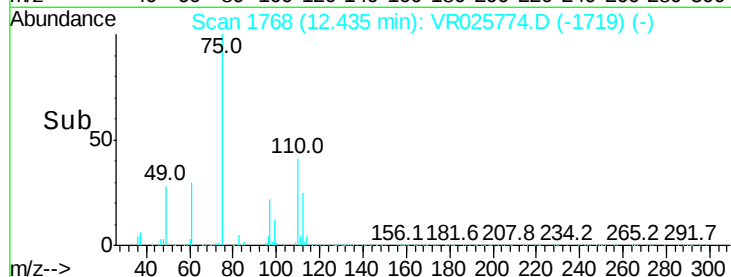
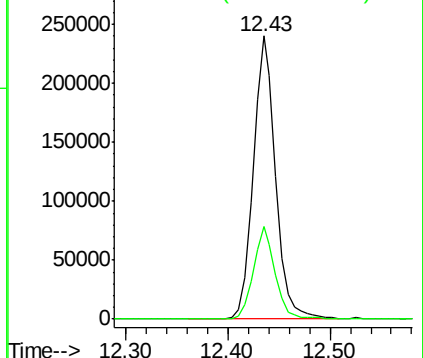
75 100

77 32.1 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VR0

Ion 77.00 (76.70 to 77.70): VR0



#61

Bromoform

Concen: 32.293 ug/L

RT: 12.01 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

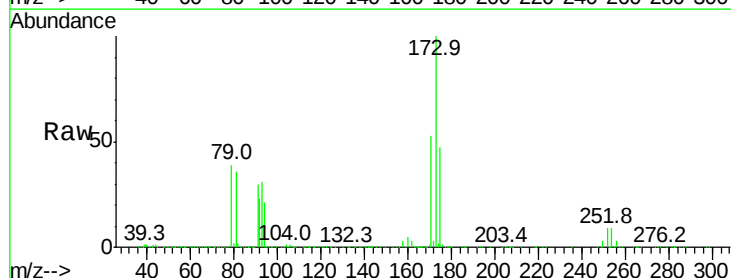
Tgt Ion: 173 Resp: 256351

Ion Ratio Lower Upper

173 100

175 47.7 39.9 59.9

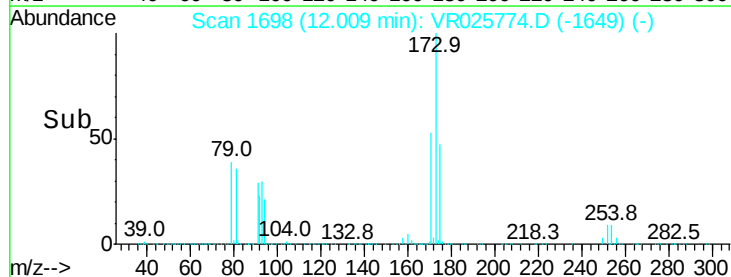
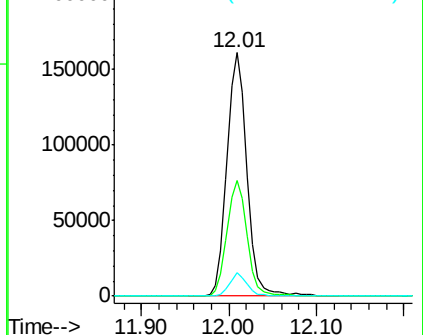
254 8.3 6.6 9.8

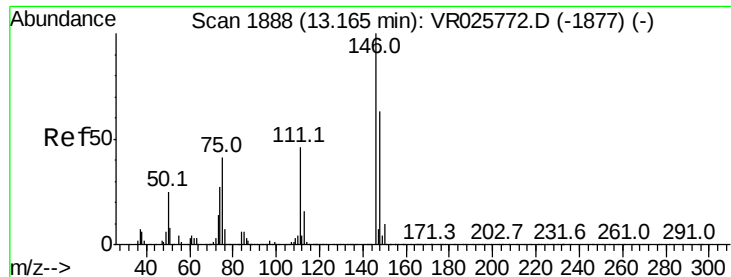


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V





#62

1,3-Dichlorobenzene

Concen: 29.038 ug/L

RT: 13.16 min Scan# 1887

Delta R.T. -0.01 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampled :

VSTD02013

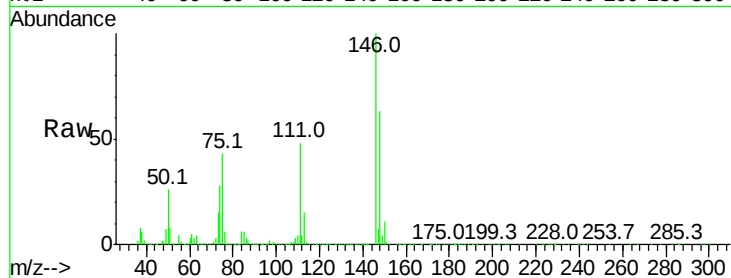
Tgt Ion:146 Resp: 1682894

Ion Ratio Lower Upper

146 100

111 48.1 32.1 59.5

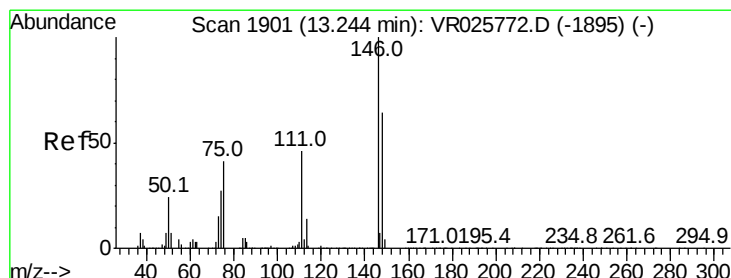
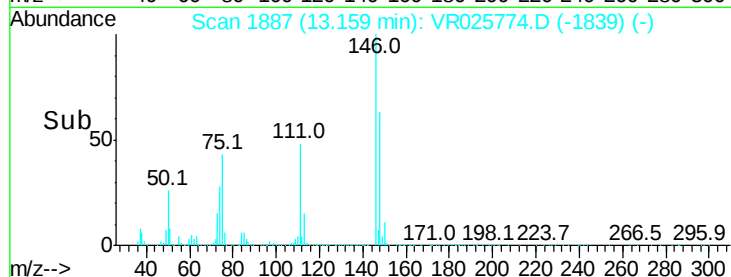
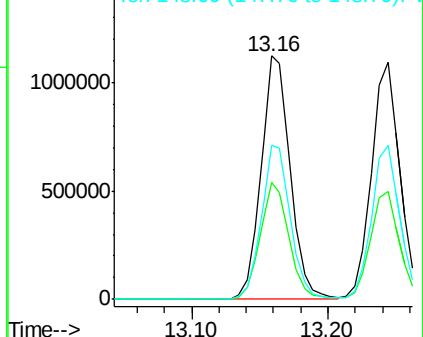
148 63.2 44.3 82.3



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



#63

1,4-Dichlorobenzene

Concen: 24.226 ug/L

RT: 13.24 min Scan# 1901

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

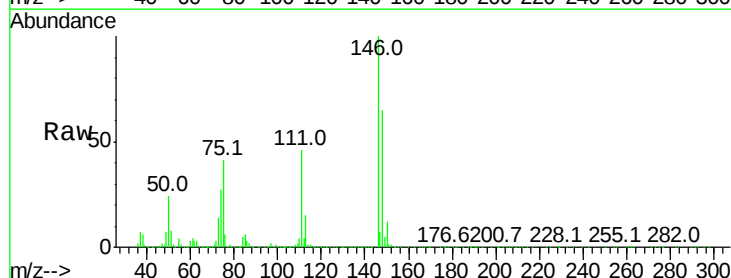
Tgt Ion:146 Resp: 1596853

Ion Ratio Lower Upper

146 100

111 45.6 32.3 60.1

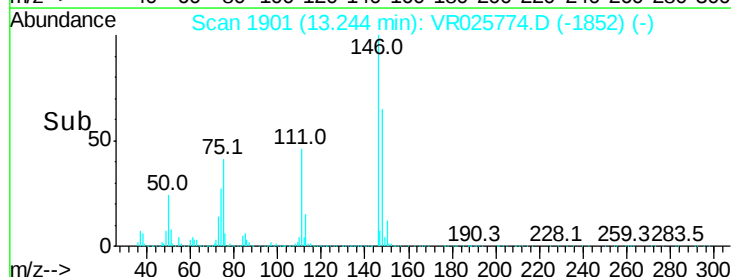
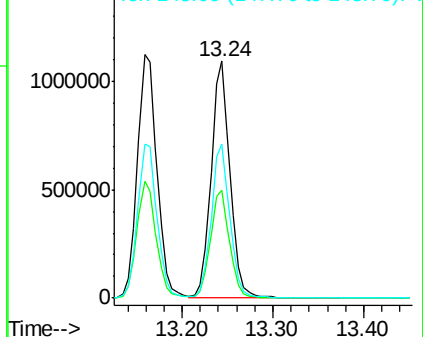
148 65.1 44.6 82.8

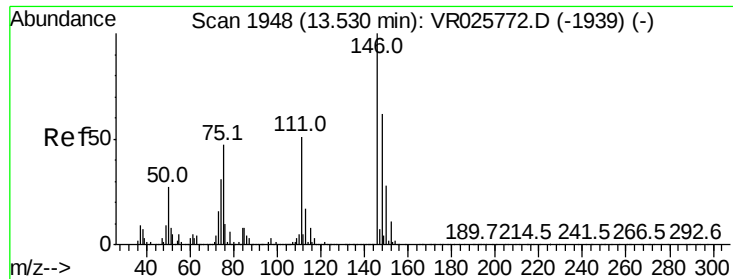


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 25.362 ug/L

RT: 13.53 min Scan# 1948

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampleId :

VSTD02013

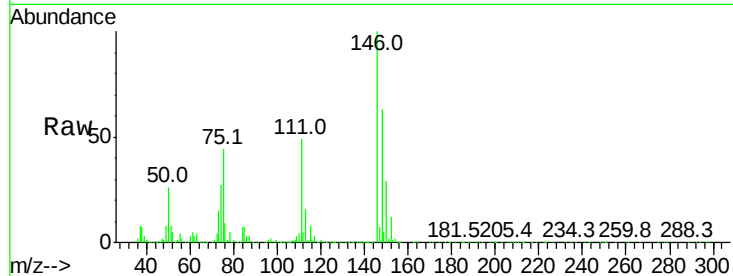
Tgt Ion:146 Resp: 1268050

Ion Ratio Lower Upper

146 100

111 49.0 40.5 60.7

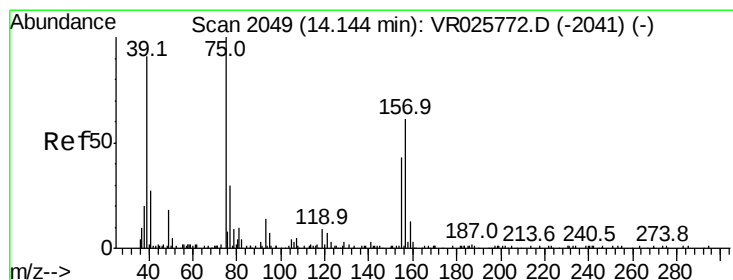
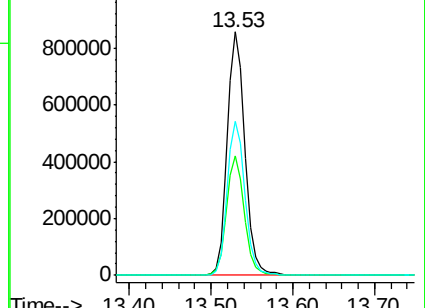
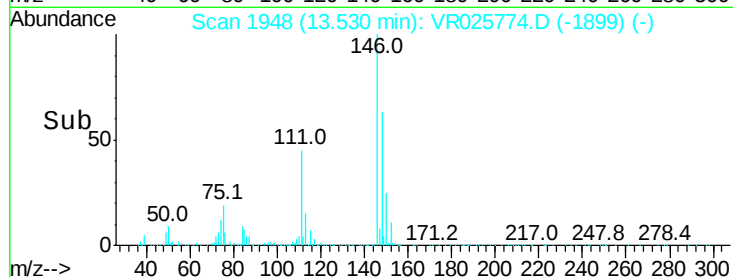
148 63.1 49.7 74.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 48.945 ug/L

RT: 14.14 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

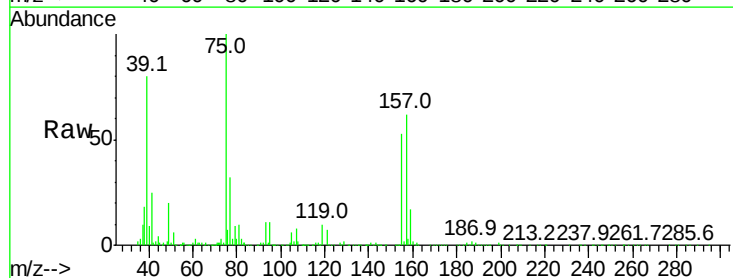
Tgt Ion: 75 Resp: 71963

Ion Ratio Lower Upper

75 100

155 52.8 34.1 51.1#

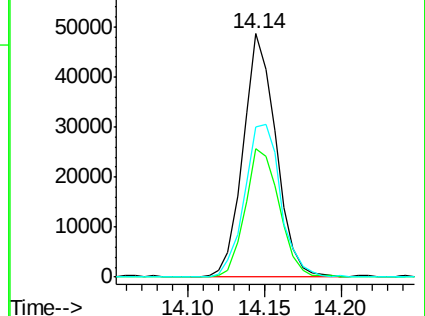
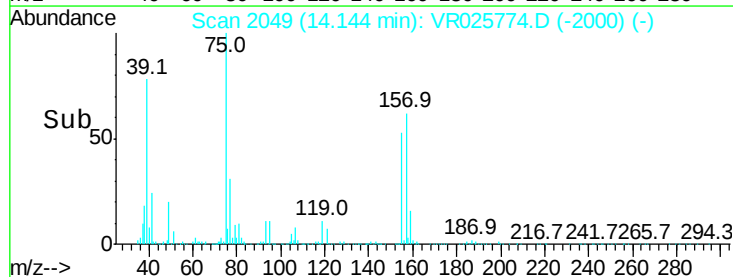
157 61.6 49.1 73.7

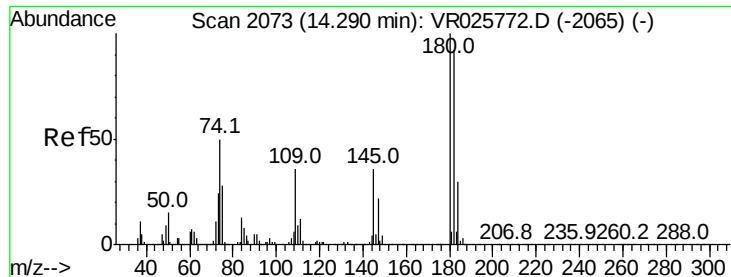


Abundance Ion 75.05 (74.75 to 75.75): VR0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

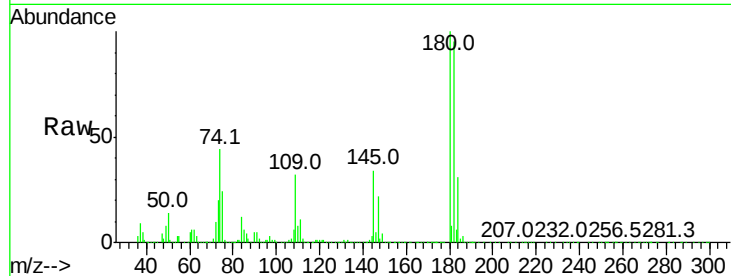




#67  
 1,3,5-Trichlorobenzene  
 Concen: 29.021 ug/L  
 RT: 14.29 min Scan# 2073  
 Delta R.T. -0.00 min  
 Lab File: VR025774.D  
 Acq: 20 Sep 2018 13:06

Instrument :  
 MSVOA\_R  
 ClientSampled :  
 VSTD02013

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.3  | 75.7  | 113.5 |
| 184     | 30.4  | 24.8  | 37.2  |
| 145     | 35.0  | 28.5  | 42.7  |

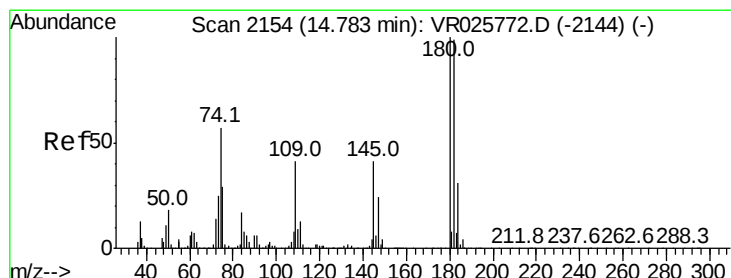
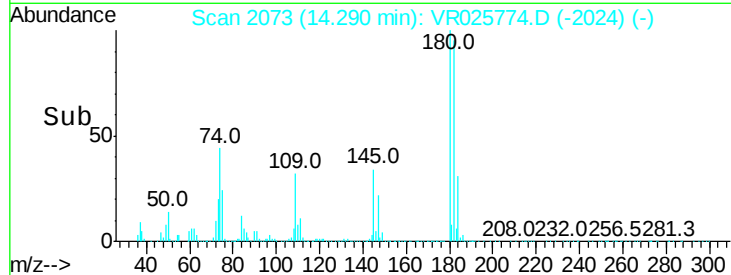
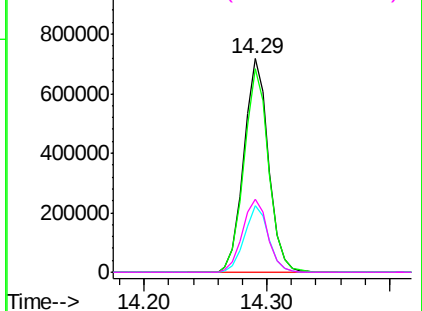


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

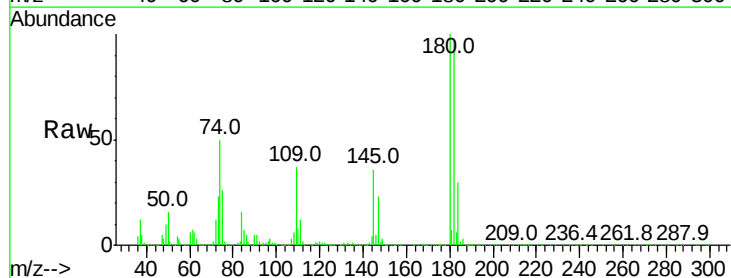
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 31.287 ug/L  
 RT: 14.78 min Scan# 2154  
 Delta R.T. -0.00 min  
 Lab File: VR025774.D  
 Acq: 20 Sep 2018 13:06

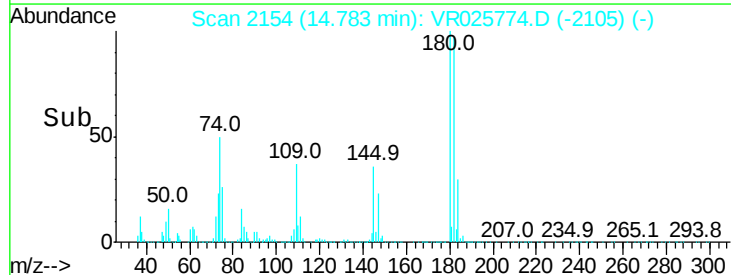
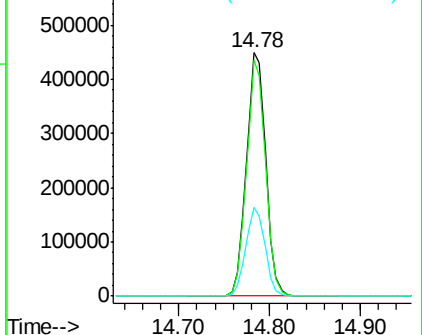
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.0  | 76.2  | 114.2 |
| 145     | 36.2  | 30.2  | 45.2  |

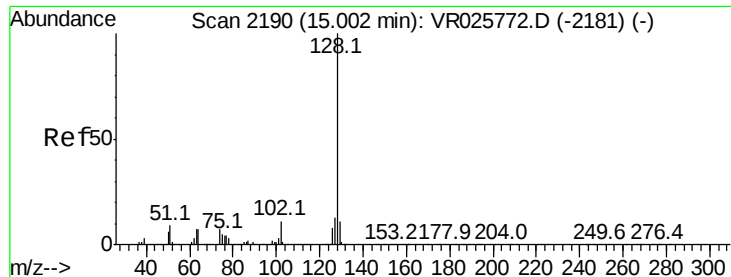


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 41.539 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

Instrument :

MSVOA\_R

ClientSampleId :

VSTD02013

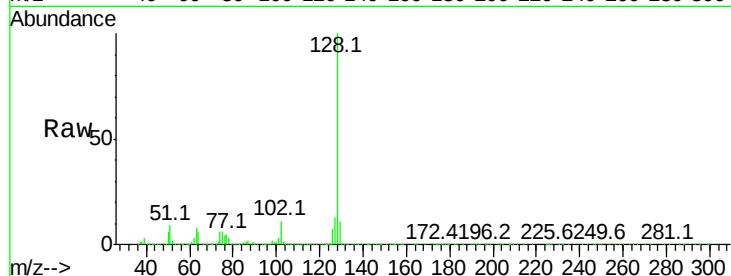
Tgt Ion:128 Resp: 982035

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

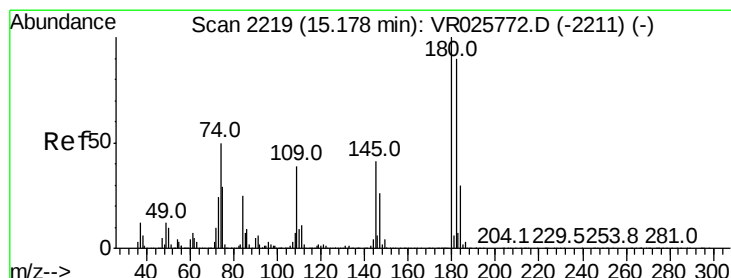
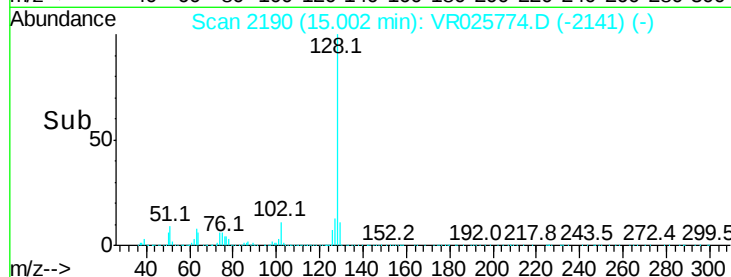
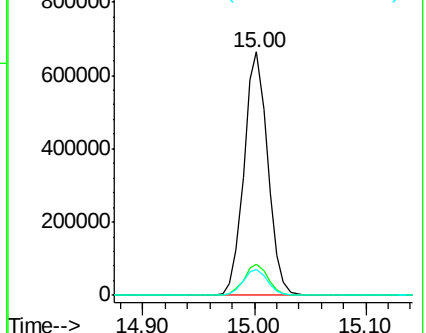
129 11.0 9.1 13.7



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: 27.499 ug/L

RT: 15.18 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VR025774.D

Acq: 20 Sep 2018 13:06

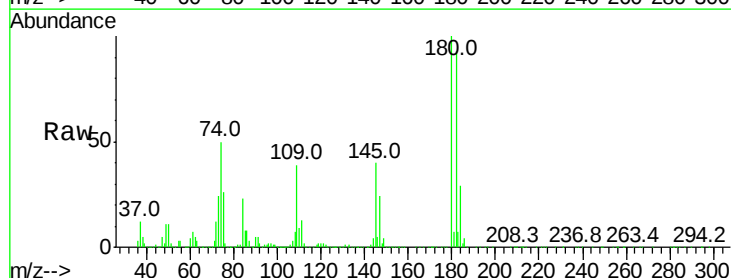
Tgt Ion:180 Resp: 460028

Ion Ratio Lower Upper

180 100

182 94.1 75.7 113.5

145 39.2 31.8 47.8



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

