

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW091019\  
 Data File : VW012899.D  
 Acq On : 11 Sep 2019 05:21  
 Operator : SY/VA  
 Sample : K4680-05  
 Misc : 5.92G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T1-3-(1.5)

Quant Time: Sep 11 08:25:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sun Sep 08 05:04:40 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 244487   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 370516   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 298489   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 100564   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 134190   | 49.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.24%  |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 108293   | 49.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.32%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 441541   | 51.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.32% |          |
| 62) 4-Bromofluorobenzene    | 12.61 | 95   | 122674   | 39.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 78.32%  |          |

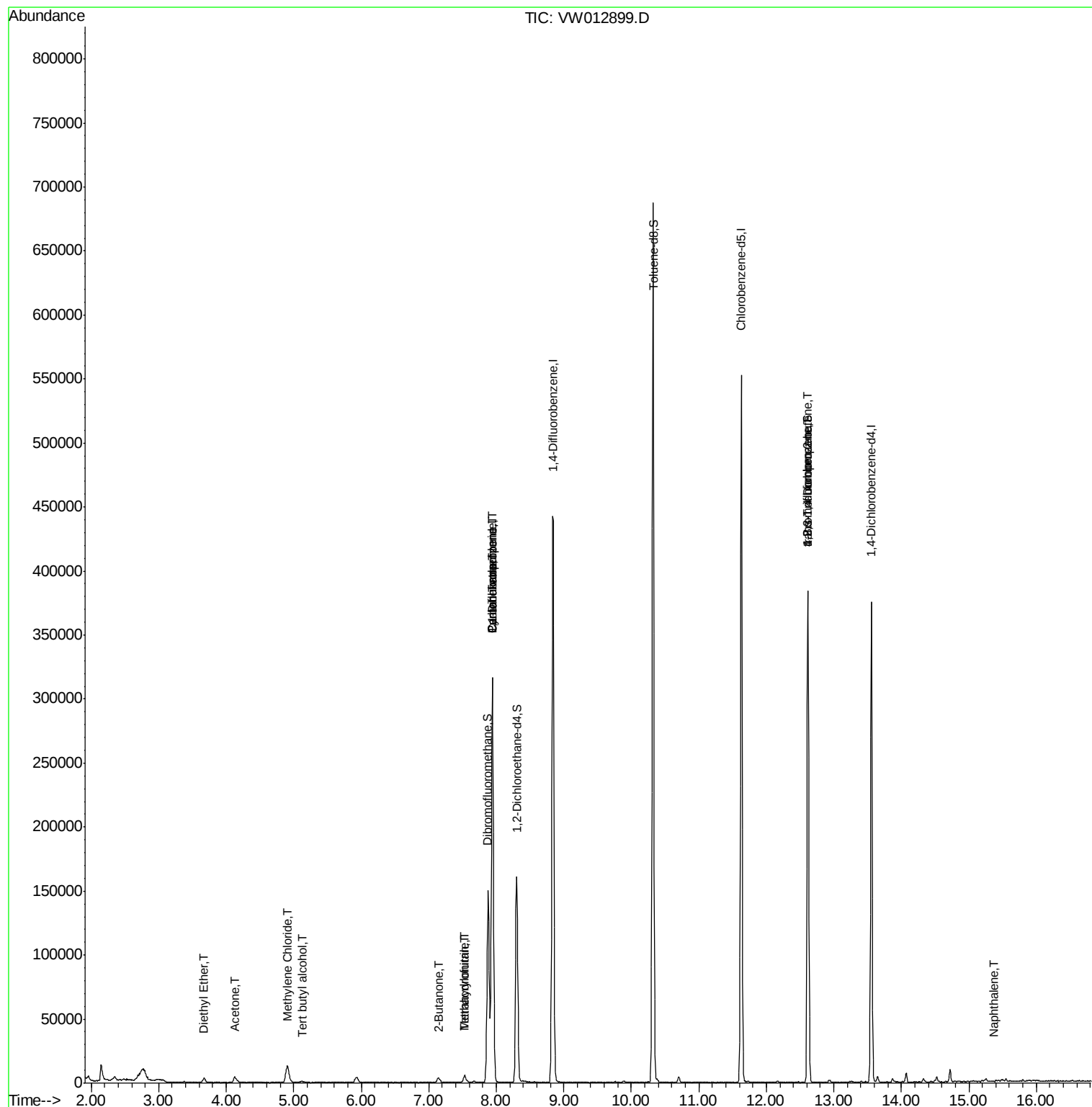
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.67  | 74   | 1831     | 1.598   | ug/l   | 96     |
| 11) Tert butyl alcohol         | 5.13  | 59   | 1054     | 5.043   | ug/l # | 72     |
| 16) Acetone                    | 4.13  | 43   | 9074     | 12.184  | ug/l   | 98     |
| 20) Methylene Chloride         | 4.91  | 84   | 9790     | 4.202   | ug/l   | 98     |
| 25) 2-Butanone                 | 7.14  | 43   | 351      | 19.975  | ug/l # | 53     |
| 29) Tetrahydrofuran            | 7.53  | 42   | 4585     | 7.624   | ug/l # | 90     |
| 31) Cyclohexane                | 7.94  | 56   | 4871     | 1.213   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 17755    | 5.393   | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 23559    | 7.260   | ug/l # | 16     |
| 41) Methacrylonitrile          | 7.53  | 41   | 3234     | 5.932   | ug/l # | 57     |
| 76) 1,2,3-Trichloropropane     | 12.61 | 75   | 64873    | 63.087  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.61 | 75   | 64873    | 133.433 | ug/l # | 6      |
| 95) Naphthalene                | 15.36 | 128  | 57       | 4.451   | ug/l # | 2      |

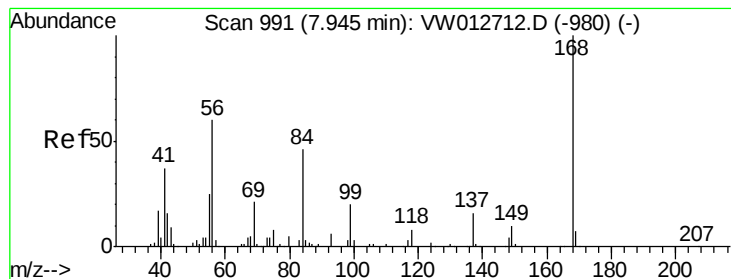
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW091019\  
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Sample : K4680-05  
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ALS Vial : 44 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
T1-3-(1.5)

Quant Time: Sep 11 08:25:07 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
Quant Title : SW846 8260  
QLast Update : Sun Sep 08 05:04:40 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012899.D

Acq: 11 Sep 2019 05:21

Instrument :

MSVOA\_W

ClientSampleId :

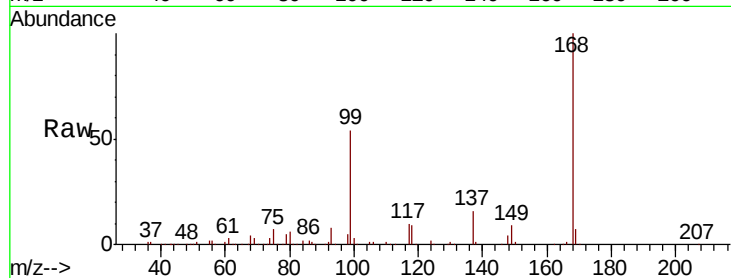
T1-3-(1.5)

Tgt Ion:168 Resp: 244487

Ion Ratio Lower Upper

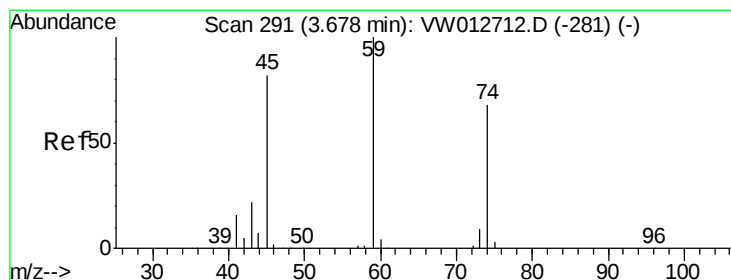
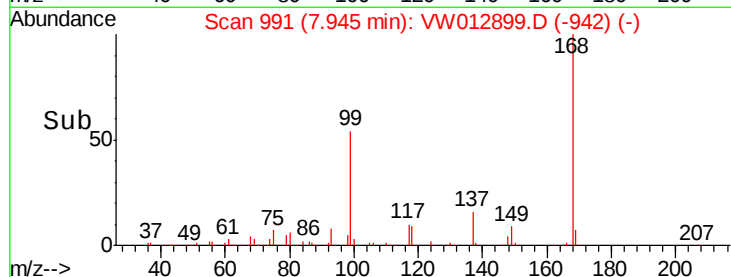
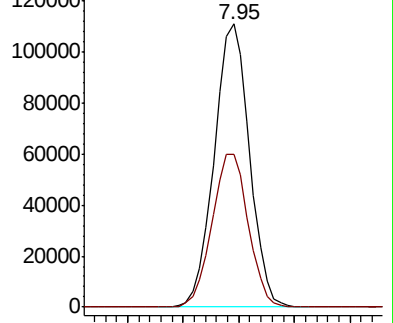
168 100

99 54.2 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.598 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012899.D

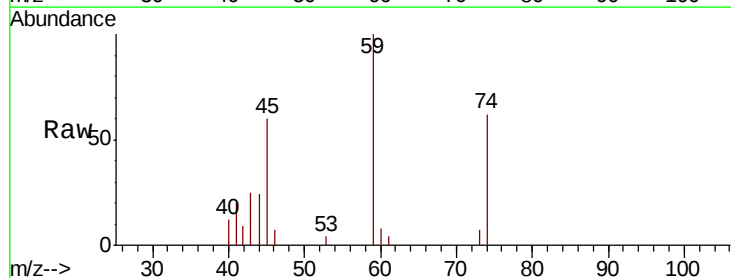
Acq: 11 Sep 2019 05:21

Tgt Ion: 74 Resp: 1831

Ion Ratio Lower Upper

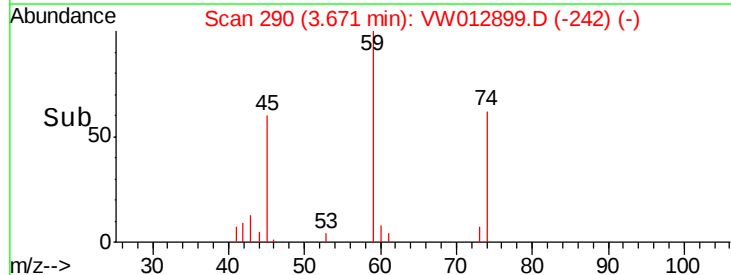
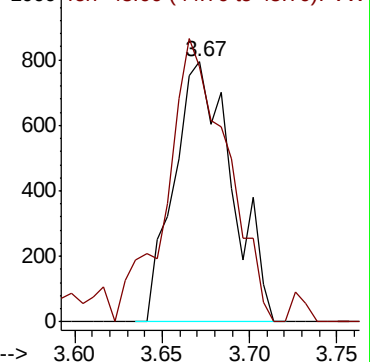
74 100

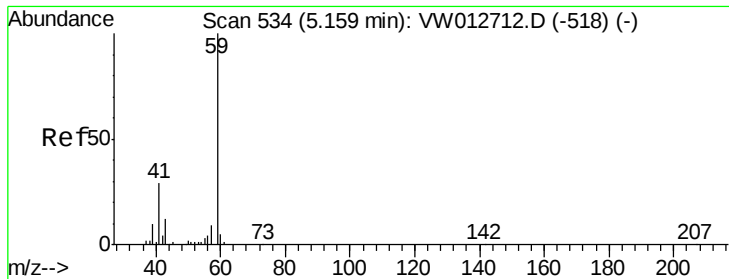
45 113.5 58.8 176.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

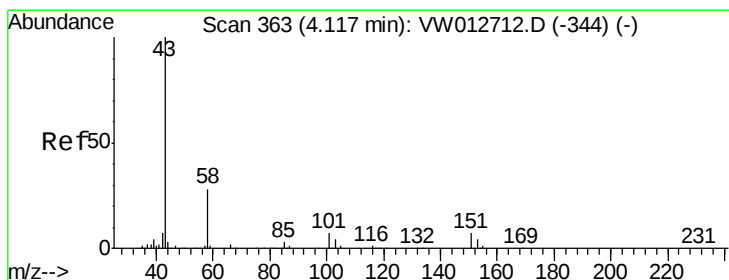
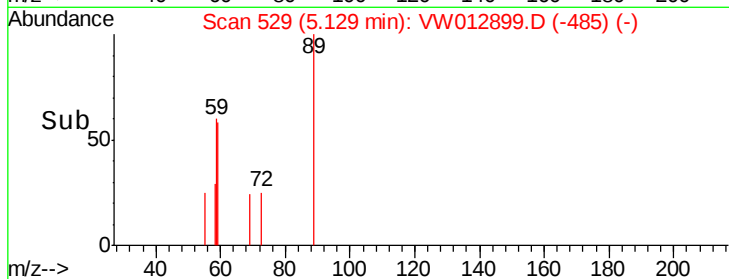
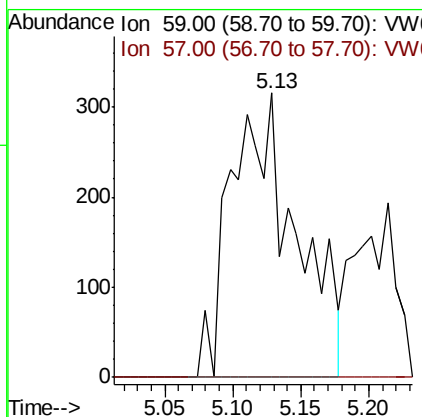
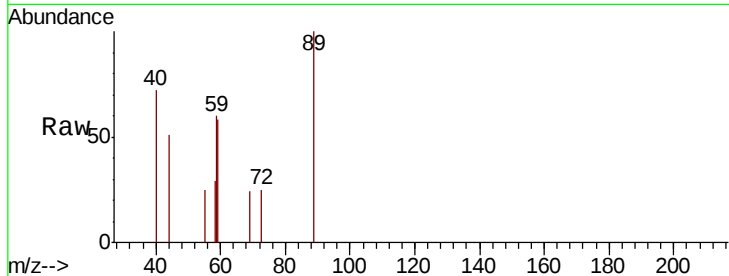




#11  
Tert butyl alcohol  
Concen: 5.043 ug/l  
RT: 5.13 min Scan# 529  
Delta R.T. -0.03 min  
Lab File: VW012899.D  
Acq: 11 Sep 2019 05:21

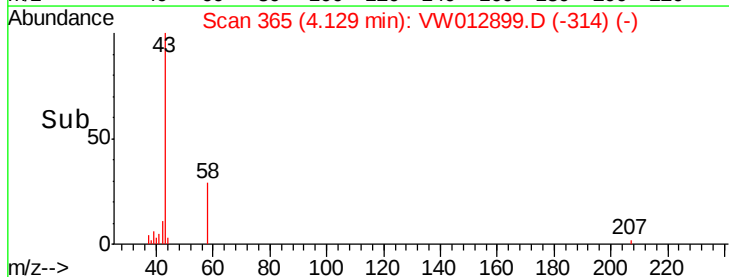
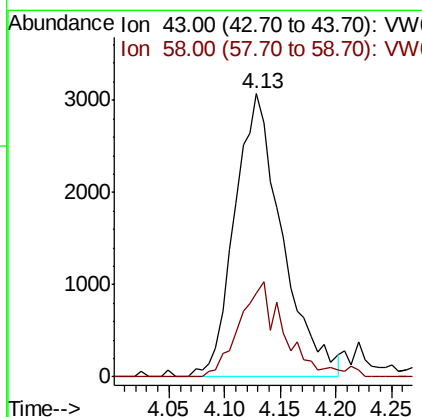
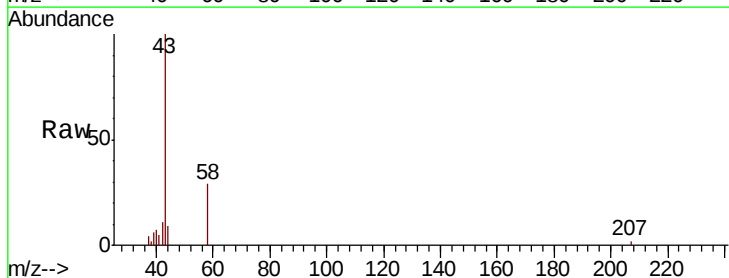
Instrument :  
MSVOA\_W  
ClientSampleId :  
T1-3-(1.5)

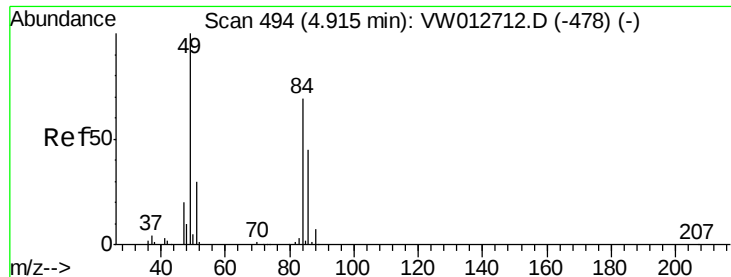
Tgt Ion: 59 Resp: 1054  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#16  
Acetone  
Concen: 12.184 ug/l  
RT: 4.13 min Scan# 365  
Delta R.T. 0.01 min  
Lab File: VW012899.D  
Acq: 11 Sep 2019 05:21

Tgt Ion: 43 Resp: 9074  
Ion Ratio Lower Upper  
43 100  
58 29.4 22.6 33.8

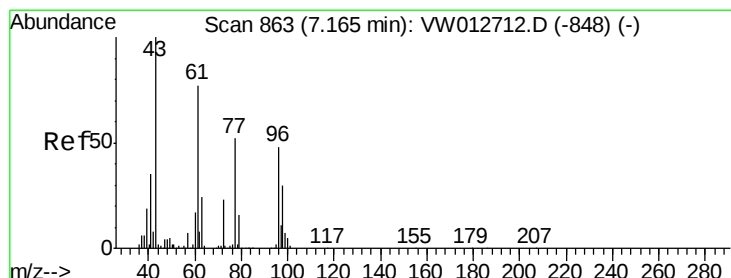
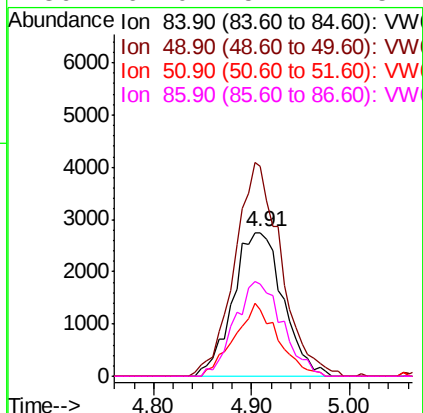
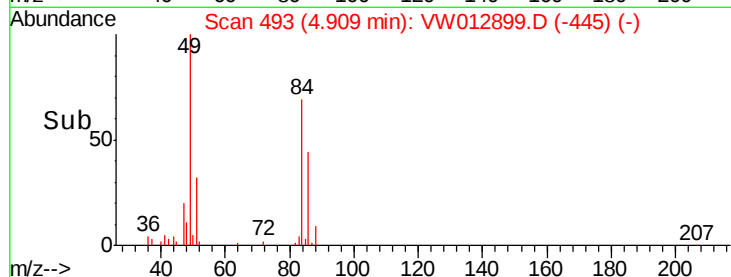
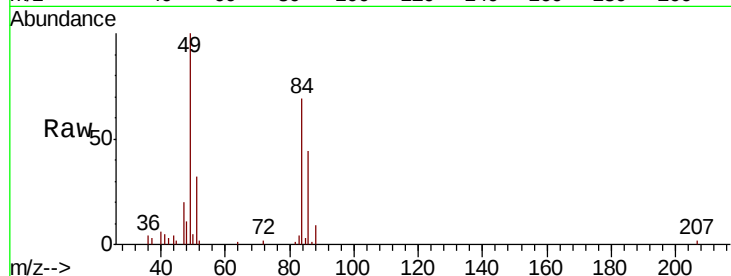




#20  
Methylene Chloride  
Concen: 4.202 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW012899.D  
Acq: 11 Sep 2019 05:21

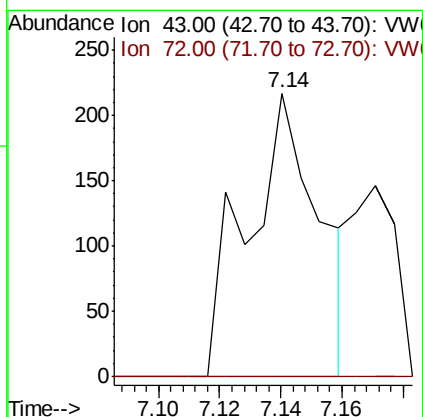
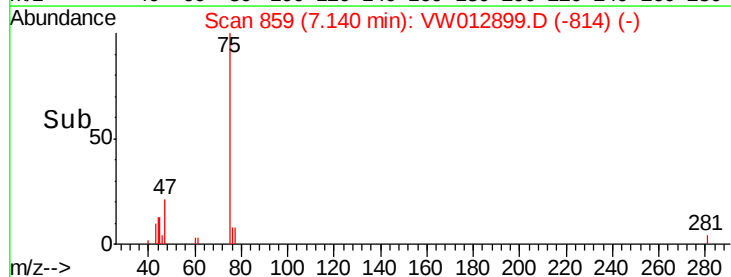
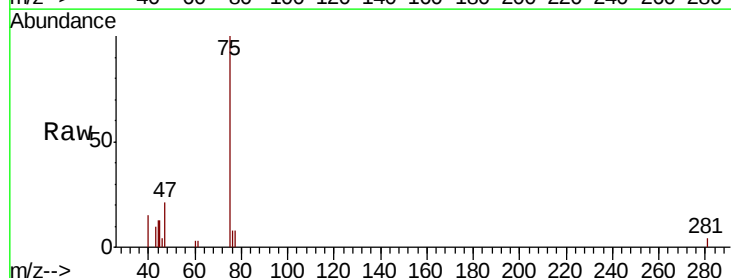
Instrument :  
MSVOA\_W  
ClientSampleId :  
T1-3-(1.5)

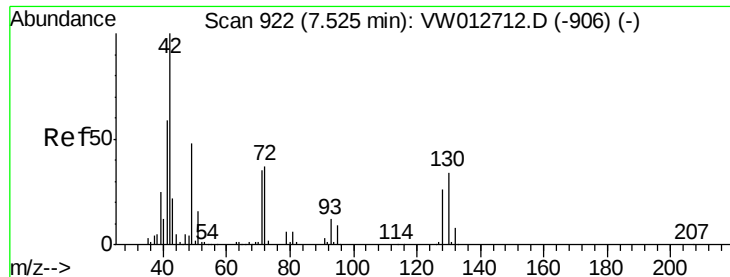
Tgt Ion: 84 Resp: 9790  
Ion Ratio Lower Upper  
84 100  
49 145.9 115.4 173.0  
51 46.1 34.9 52.3  
86 64.0 52.2 78.4



#25  
2-Butanone  
Concen: 19.975 ug/l  
RT: 7.14 min Scan# 859  
Delta R.T. -0.02 min  
Lab File: VW012899.D  
Acq: 11 Sep 2019 05:21

Tgt Ion: 43 Resp: 351  
Ion Ratio Lower Upper  
43 100  
72 0.0 18.0 27.0#

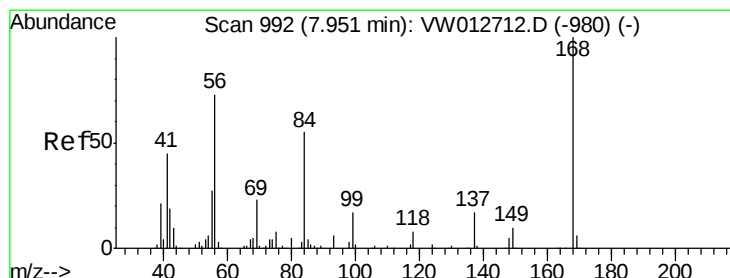
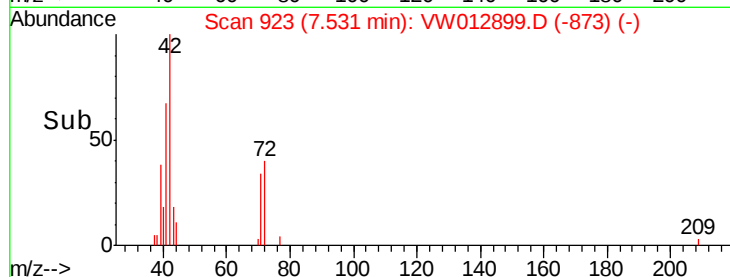
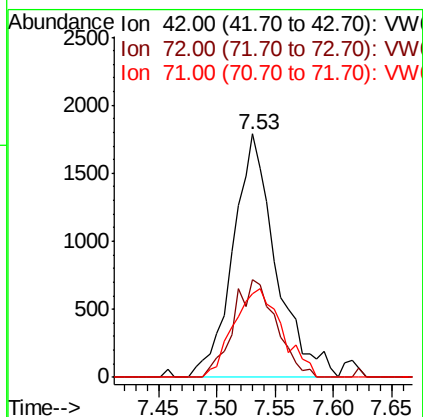
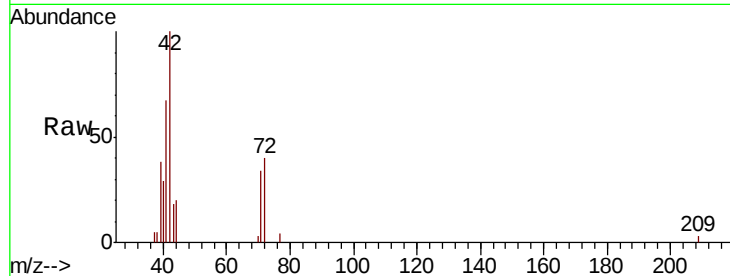




#29  
Tetrahydrofuran  
Concen: 7.624 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. 0.01 min  
Lab File: VW012899.D  
Acq: 11 Sep 2019 05:21

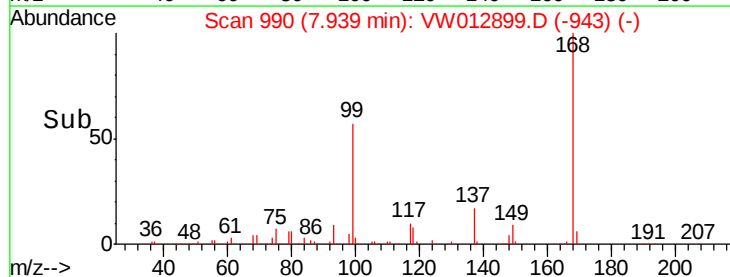
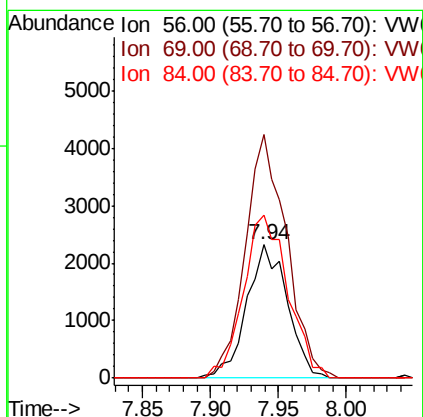
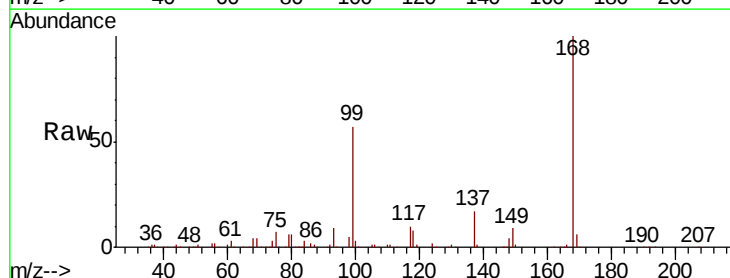
Instrument :  
MSVOA\_W  
ClientSampleId :  
T1-3-(1.5)

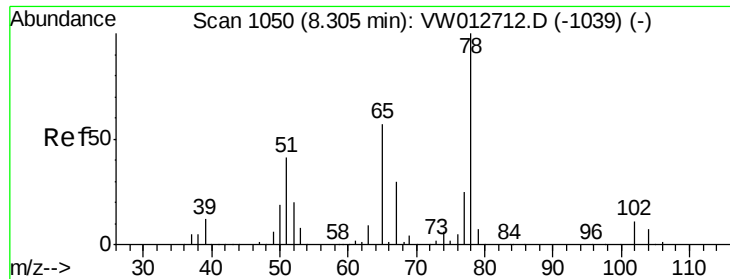
Tgt Ion: 42 Resp: 4585  
Ion Ratio Lower Upper  
42 100  
72 40.0 28.4 42.6  
71 41.1 27.1 40.7#



#31  
Cyclohexane  
Concen: 1.213 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.01 min  
Lab File: VW012899.D  
Acq: 11 Sep 2019 05:21

Tgt Ion: 56 Resp: 4871  
Ion Ratio Lower Upper  
56 100  
69 183.1 25.7 38.5#  
84 123.0 60.4 90.6#

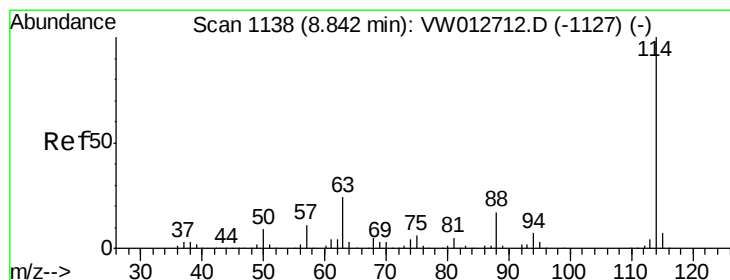
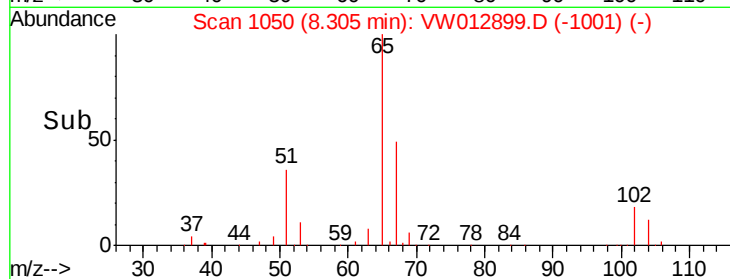
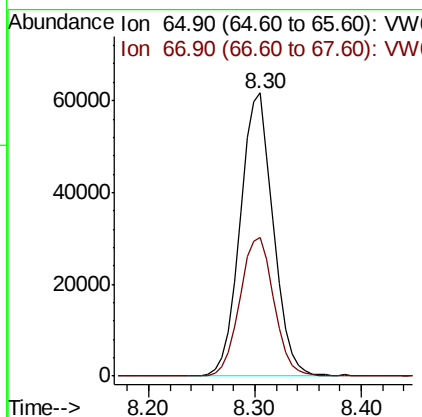
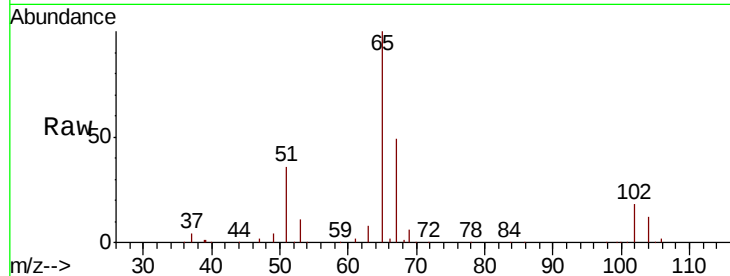




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.123 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW012899.D  
 Acq: 11 Sep 2019 05:21

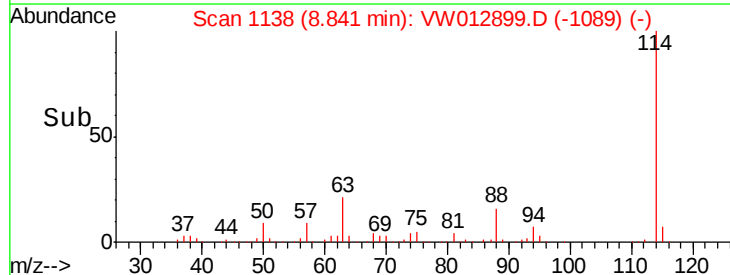
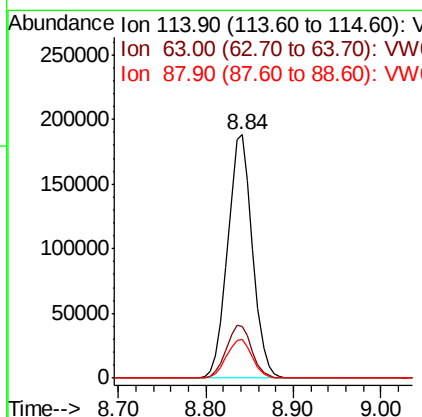
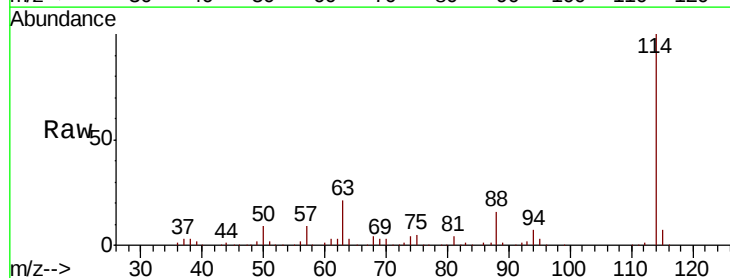
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T1-3-(1.5)

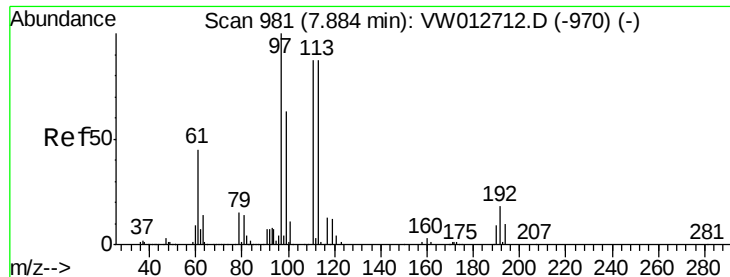
Tgt Ion: 65 Resp: 134190  
 Ion Ratio Lower Upper  
 65 100  
 67 50.7 0.0 101.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012899.D  
 Acq: 11 Sep 2019 05:21

Tgt Ion: 114 Resp: 370516  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 47.2  
 88 15.9 0.0 34.0

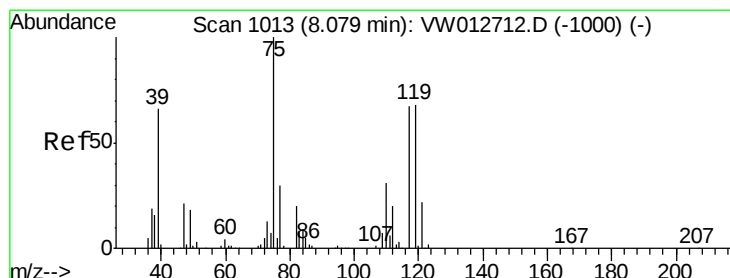
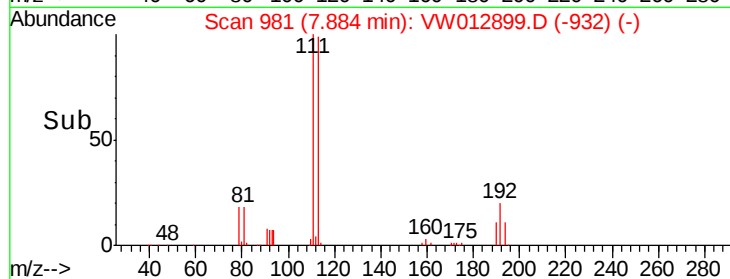
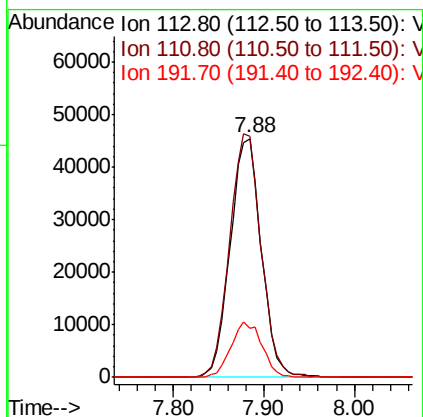
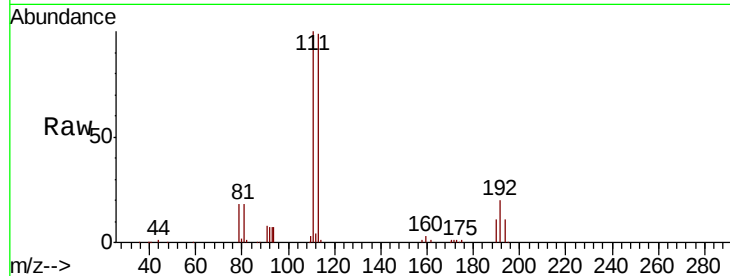




#35  
 Dibromofluoromethane  
 Concen: 49.161 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW012899.D  
 Acq: 11 Sep 2019 05:21

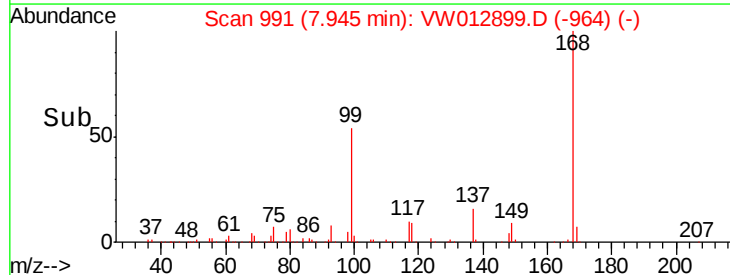
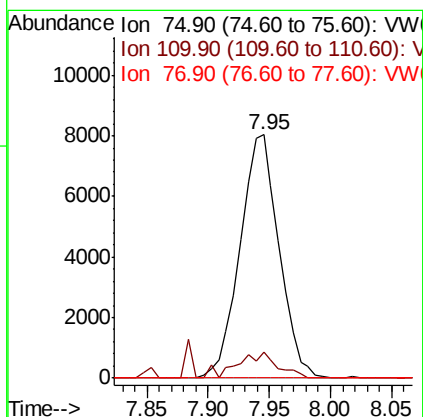
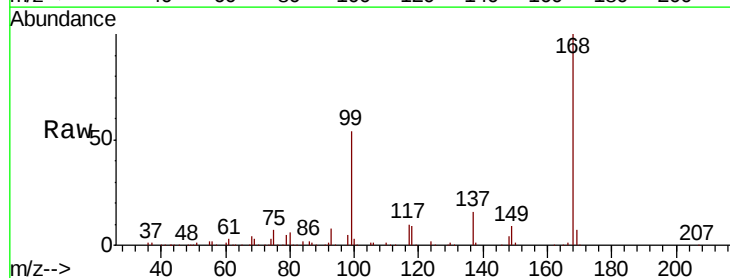
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T1-3-(1.5)

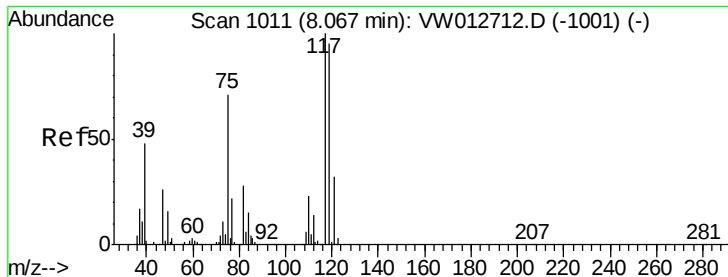
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 80.2  | 120.4 |
| 192     | 23.0  | 17.3  | 25.9  |



#36  
 1,1-Dichloropropene  
 Concen: 5.393 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW012899.D  
 Acq: 11 Sep 2019 05:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.4  | 15.9  | 47.7# |
| 77      | 0.0   | 25.0  | 37.4# |





#38

Carbon Tetrachloride

Concen: 7.260 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012899.D

Acq: 11 Sep 2019 05:21

Instrument :

MSVOA\_W

ClientSampleId :

T1-3-(1.5)

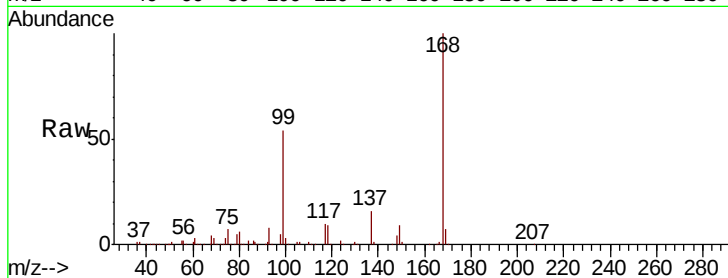
Tgt Ion: 117 Resp: 23559

Ion Ratio Lower Upper

117 100

119 4.6 76.2 114.2#

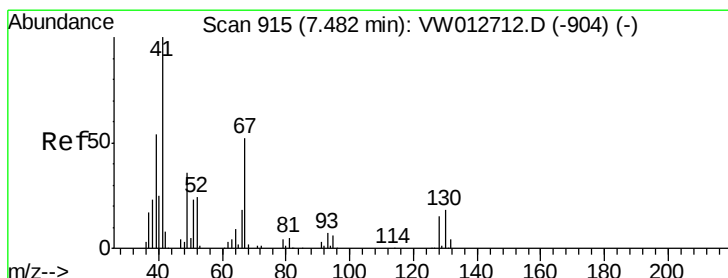
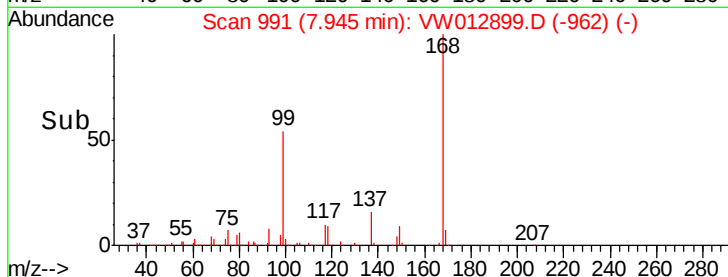
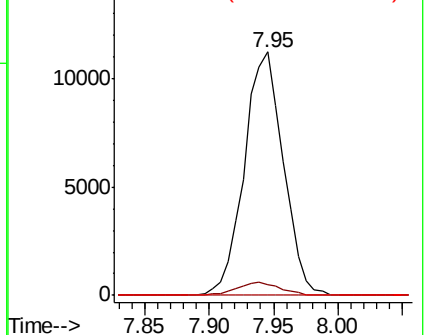
121 0.0 25.4 38.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 5.932 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.05 min

Lab File: VW012899.D

Acq: 11 Sep 2019 05:21

Tgt Ion: 41 Resp: 3234

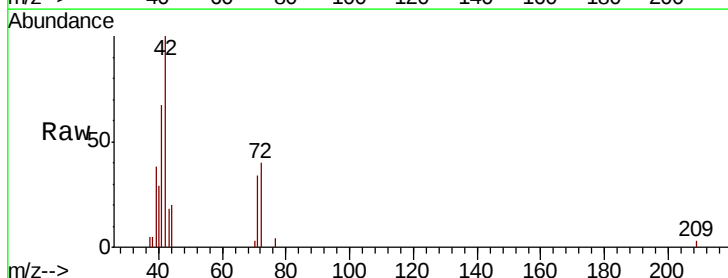
Ion Ratio Lower Upper

41 100

39 54.2 47.5 71.3

67 0.0 45.1 67.7#

52 0.0 20.2 30.2#

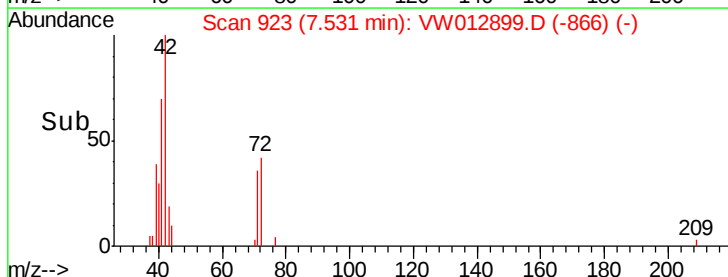
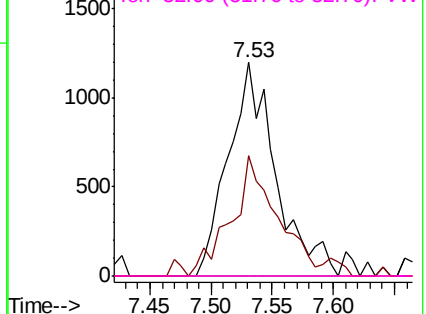


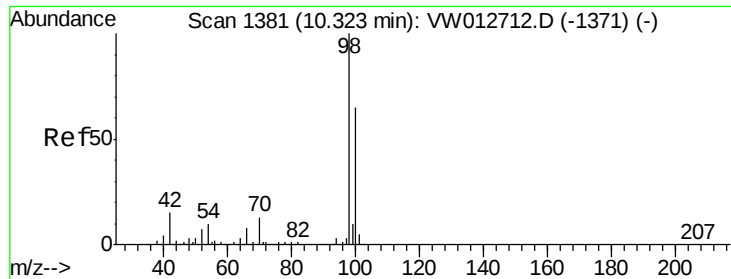
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW





#50

Toluene-d8

Concen: 51.163 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012899.D

Acq: 11 Sep 2019 05:21

Instrument :

MSVOA\_W

ClientSampled :

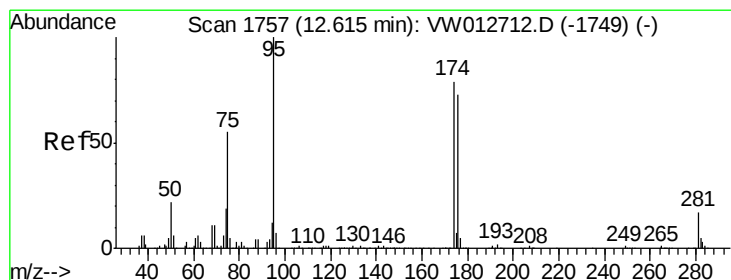
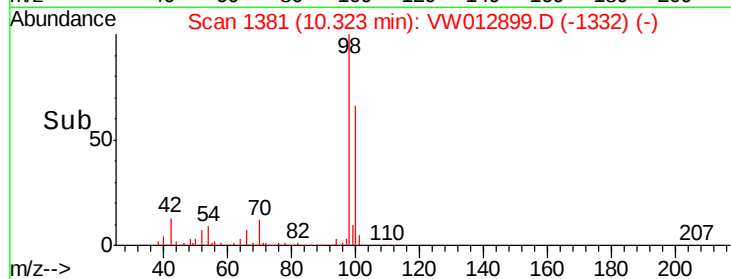
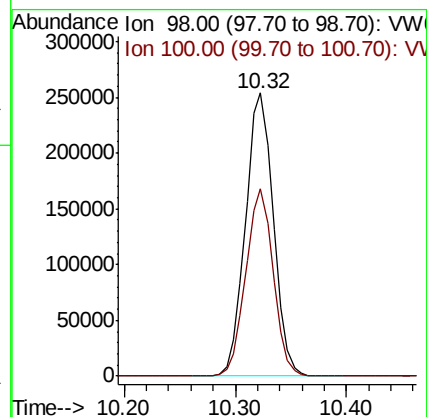
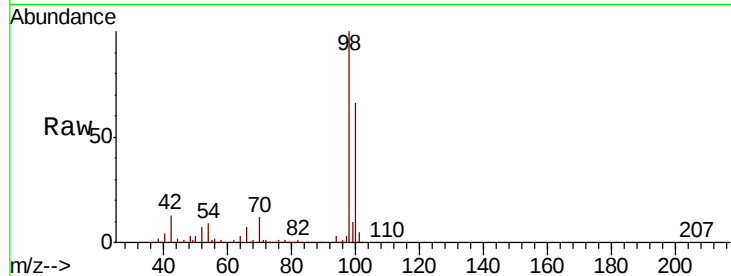
T1-3-(1.5)

Tgt Ion: 98 Resp: 441541

Ion Ratio Lower Upper

98 100

100 65.1 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 39.155 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012899.D

Acq: 11 Sep 2019 05:21

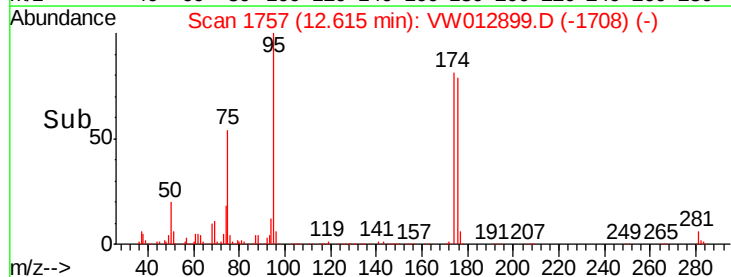
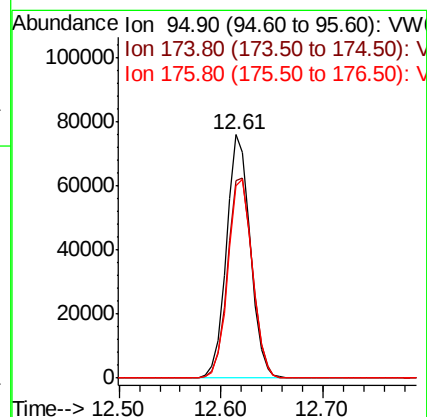
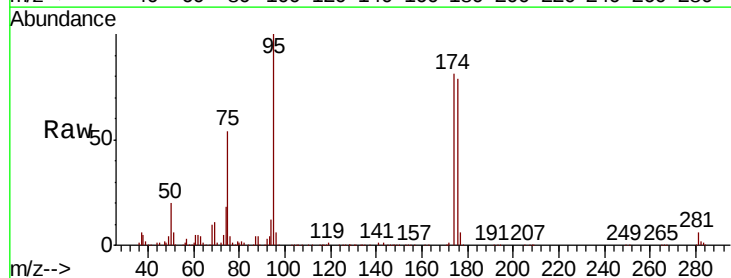
Tgt Ion: 95 Resp: 122674

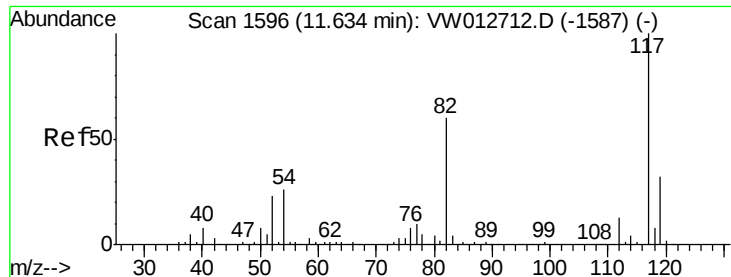
Ion Ratio Lower Upper

95 100

174 85.8 0.0 161.0

176 83.7 0.0 156.4

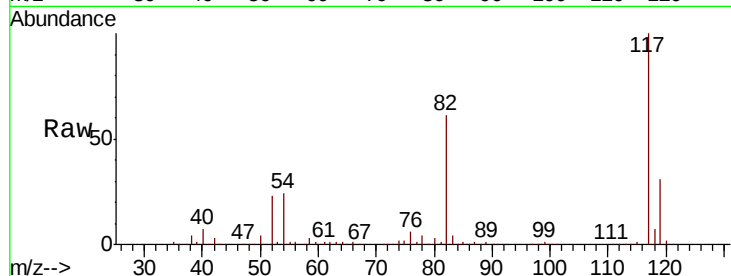




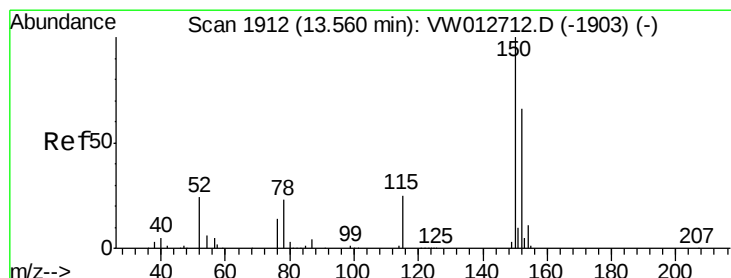
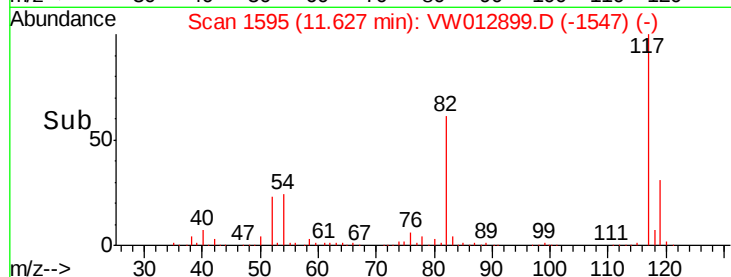
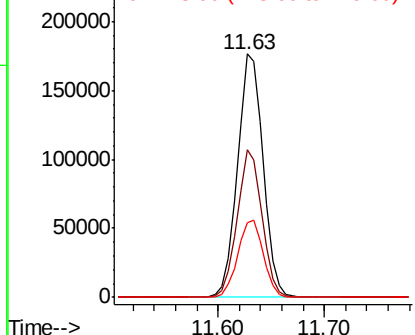
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW012899.D  
Acq: 11 Sep 2019 05:21

Instrument :  
MSVOA\_W  
ClientSampleId :  
T1-3-(1.5)

Tgt Ion:117 Resp: 298489  
Ion Ratio Lower Upper  
117 100  
82 60.6 48.2 72.4  
119 30.9 25.8 38.6

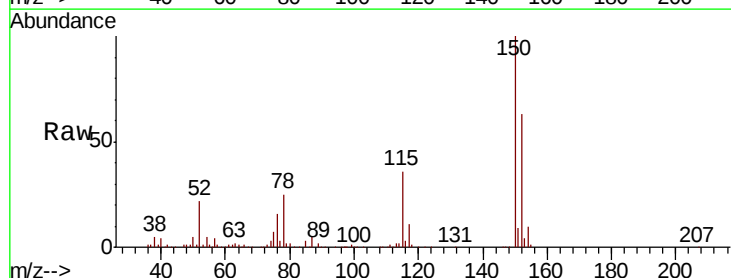


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

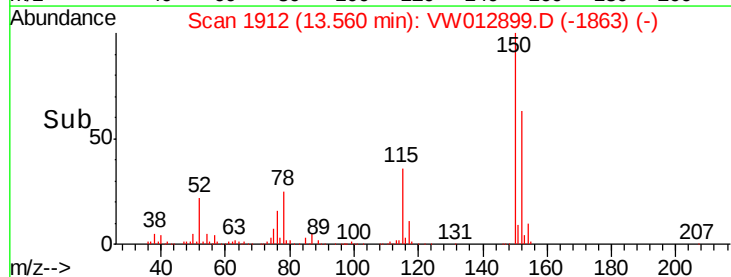
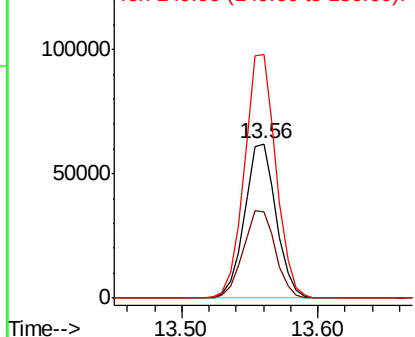


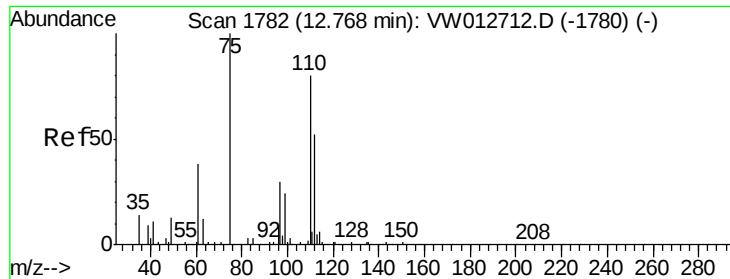
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW012899.D  
Acq: 11 Sep 2019 05:21

Tgt Ion:152 Resp: 100564  
Ion Ratio Lower Upper  
152 100  
115 58.2 30.0 90.1  
150 157.5 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 63.087 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012899.D

Acq: 11 Sep 2019 05:21

Instrument :

MSVOA\_W

ClientSampleId :

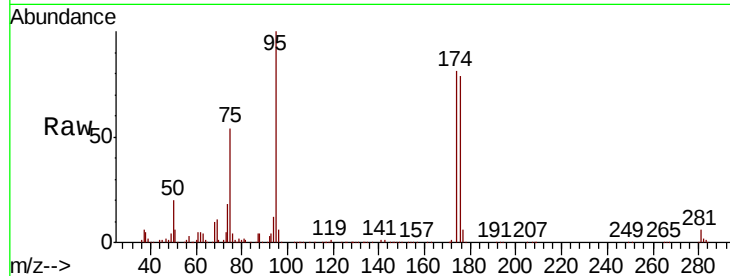
T1-3-(1.5)

Tgt Ion: 75 Resp: 64873

Ion Ratio Lower Upper

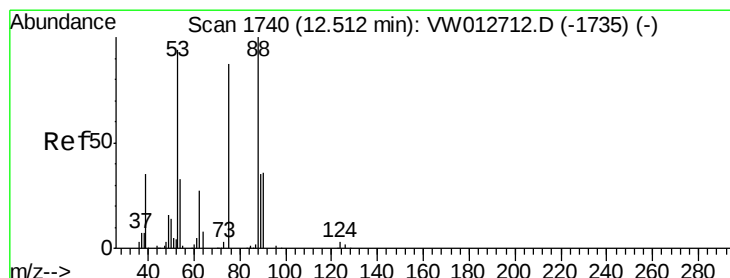
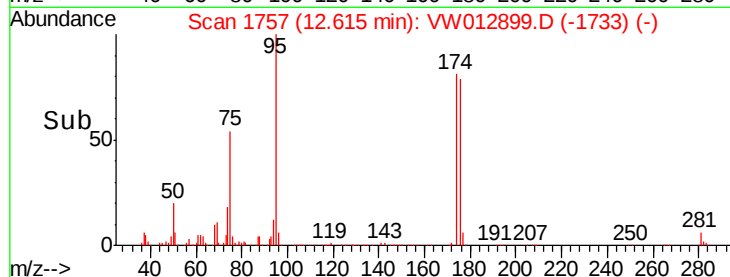
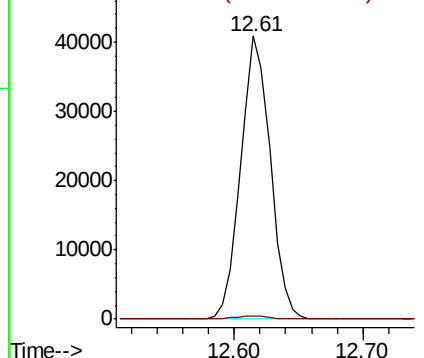
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 133.433 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012899.D

Acq: 11 Sep 2019 05:21

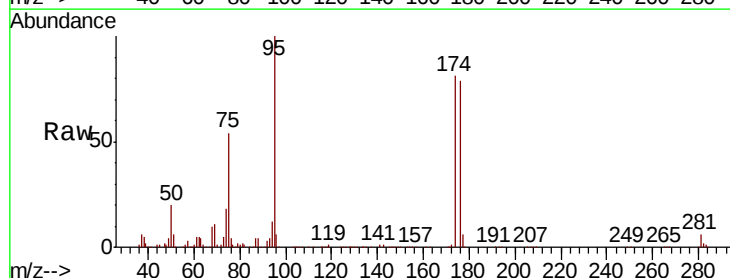
Tgt Ion: 75 Resp: 64873

Ion Ratio Lower Upper

75 100

53 0.0 87.6 131.4#

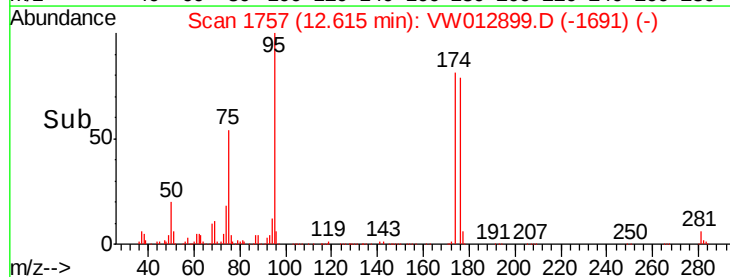
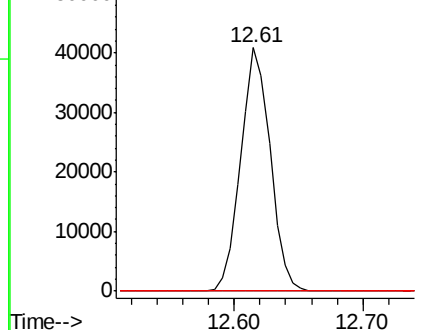
89 0.1 35.5 53.3#

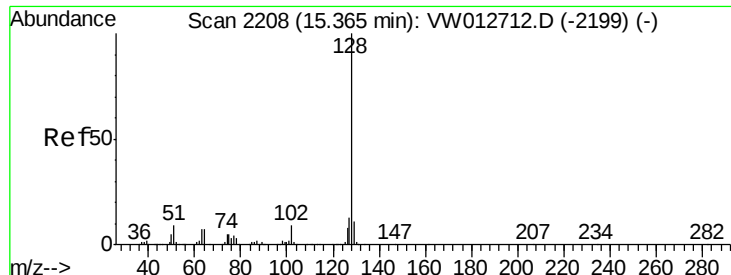


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

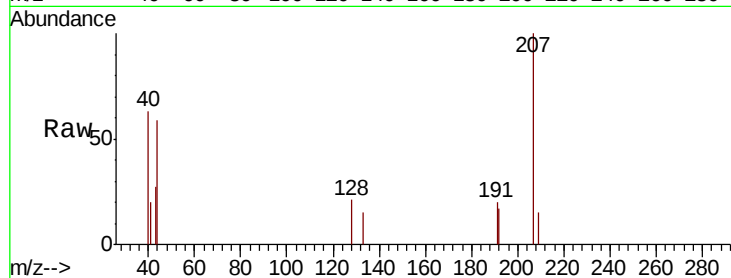




#95  
Naphthalene  
Concen: 4.451 ug/l  
RT: 15.36 min Scan# 2208  
Delta R.T. 0.00 min  
Lab File: VW012899.D  
Acq: 11 Sep 2019 05:21

Instrument :  
MSVOA\_W  
ClientSampleId :  
T1-3-(1.5)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 75.4  | 10.7  | 16.1# |
| 129     | 0.0   | 8.7   | 13.1# |



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

