

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050216\  
 Data File : BF086626.D  
 Acq On : 2 May 2016 19:22  
 Operator : UM/SJ  
 Sample : H2716-13  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-4-CS-2(8-16FTBGS)

Quant Time: May 03 01:46:22 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 27 14:20:52 2016  
 Response via : Initial Calibration

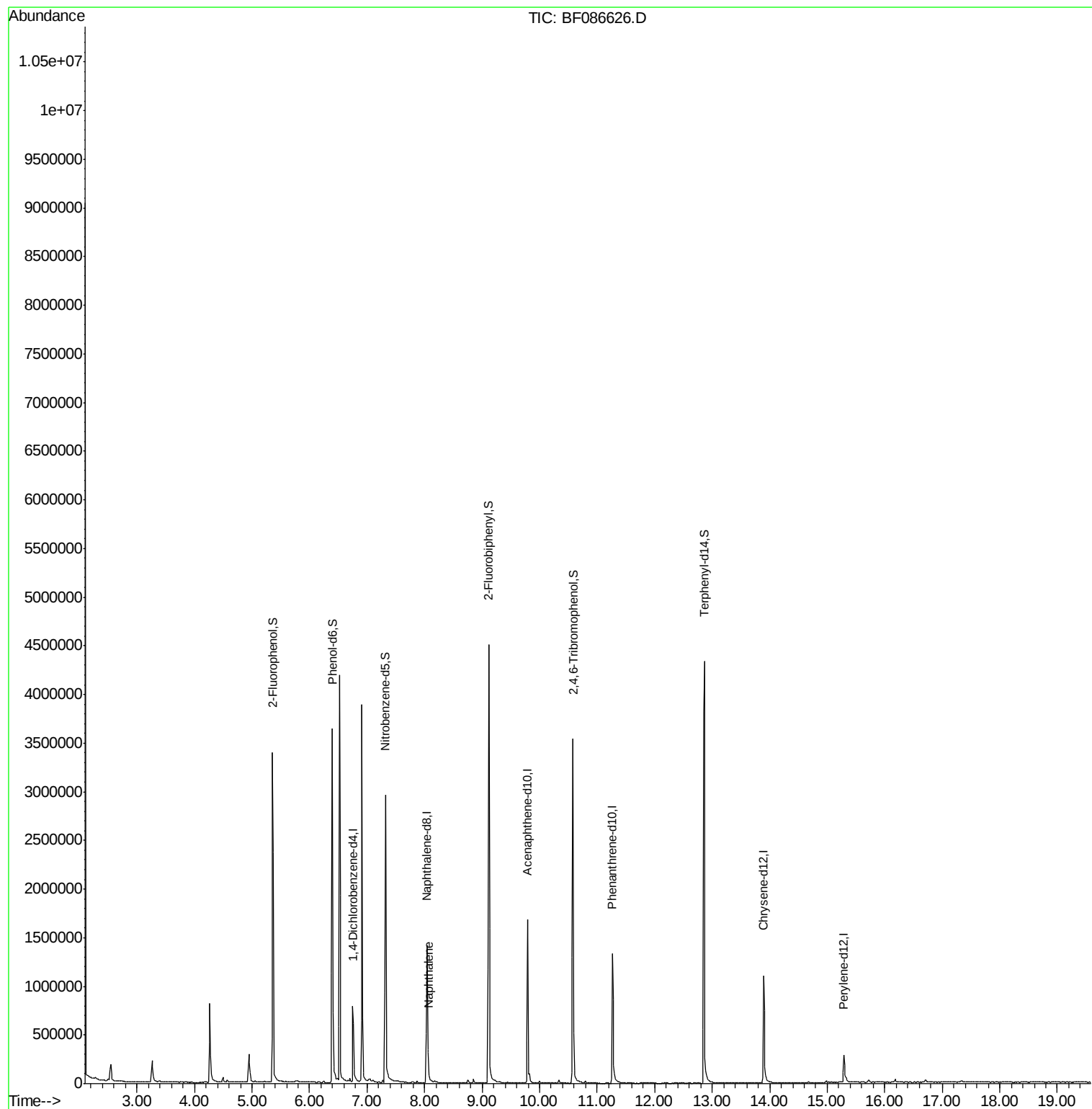
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.75  | 152  | 170596   | 20.00  | ng    | -0.06        |
| 21) Naphthalene-d8          | 8.04  | 136  | 744973   | 20.00  | ng    | -0.06        |
| 38) Acenaphthene-d10        | 9.79  | 164  | 333716   | 20.00  | ng    | -0.06        |
| 63) Phenanthrene-d10        | 11.26 | 188  | 705425   | 20.00  | ng    | -0.06        |
| 75) Chrysene-d12            | 13.89 | 240  | 549138   | 20.00  | ng    | -0.07        |
| 86) Perylene-d12            | 15.29 | 264  | 89271    | 20.00  | ng    | -0.07        |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 5.36  | 112  | 1181972  | 119.51 | ng    | -0.03        |
| 7) Phenol-d6                | 6.40  | 99   | 1315564  | 95.30  | ng    | -0.05        |
| 23) Nitrobenzene-d5         | 7.32  | 82   | 1085403  | 78.53  | ng    | -0.06        |
| 41) 2,4,6-Tribromophenol    | 10.58 | 330  | 452200   | 128.49 | ng    | -0.06        |
| 44) 2-Fluorobiphenyl        | 9.12  | 172  | 1733739  | 92.68  | ng    | -0.06        |
| 78) Terphenyl-d14           | 12.86 | 244  | 2077058  | 83.33  | ng    | -0.05        |
| Target Compounds            |       |      |          |        |       |              |
| 31) Naphthalene             | 8.06  | 128  | 170638   | 4.50   | ng    | Qvalue<br>99 |

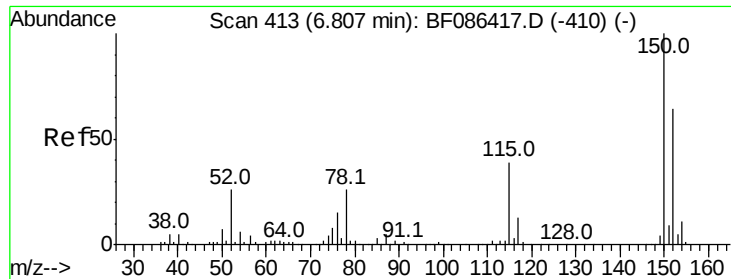
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050216\  
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Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
26WARD-4-CS-2(8-16FTBGS)

Quant Time: May 03 01:46:22 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 27 14:20:52 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.75 min Scan# 408

Delta R.T. -0.06 min

Lab File: BF086626.D

Acq: 2 May 2016 19:22

Instrument :

BNA\_F

ClientSampleId :

26WARD-4-CS-2(8-16FTBGS)

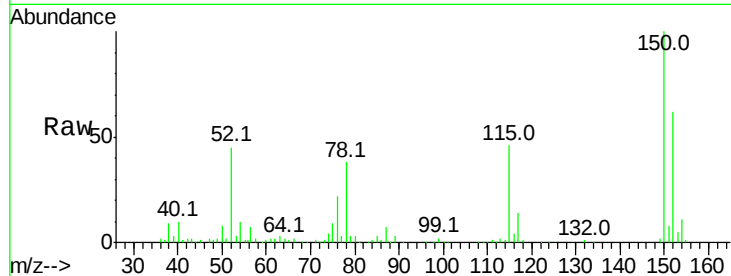
Tot Ion:152 Resp: 170596

Ion Ratio Lower Upper

152 100

150 160.2 125.8 188.6

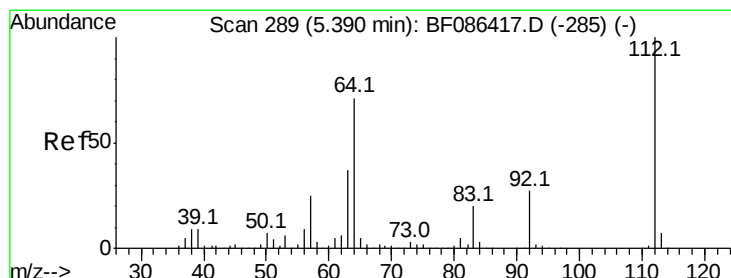
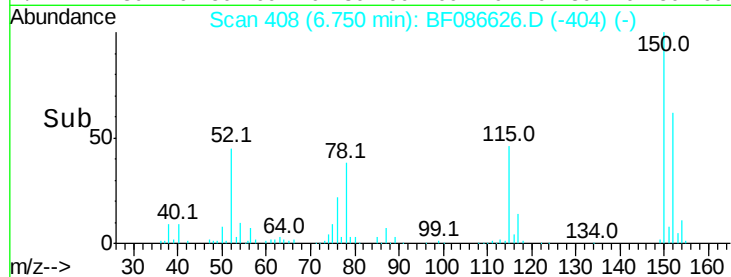
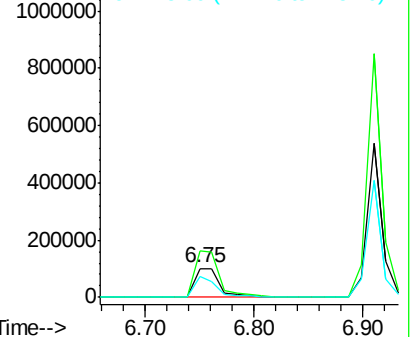
115 74.0 51.5 77.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 119.51 ng

RT: 5.36 min Scan# 286

Delta R.T. -0.03 min

Lab File: BF086626.D

Acq: 2 May 2016 19:22

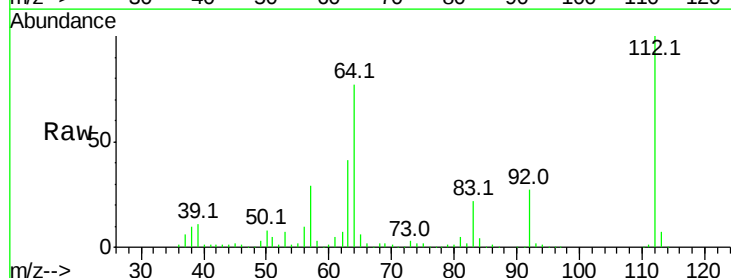
Tgt Ion:112 Resp: 1181972

Ion Ratio Lower Upper

112 100

64 76.6 52.1 78.1

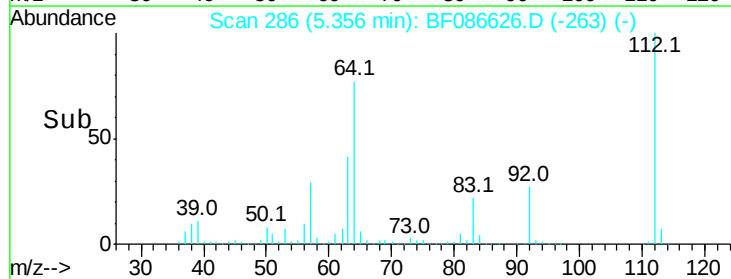
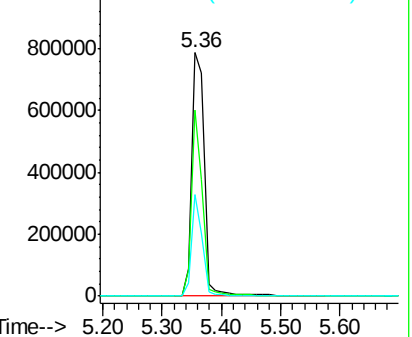
63 41.5 25.7 38.5#

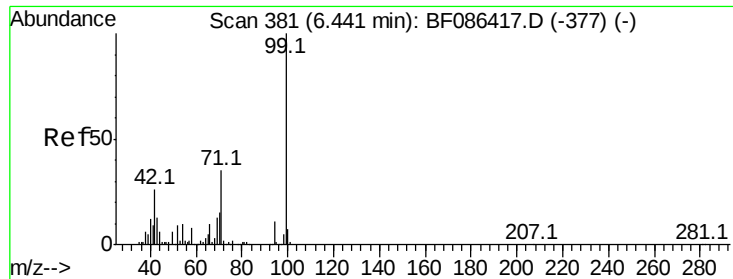


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 95.30 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.05 min

Lab File: BF086626.D

Acq: 2 May 2016 19:22

Instrument :

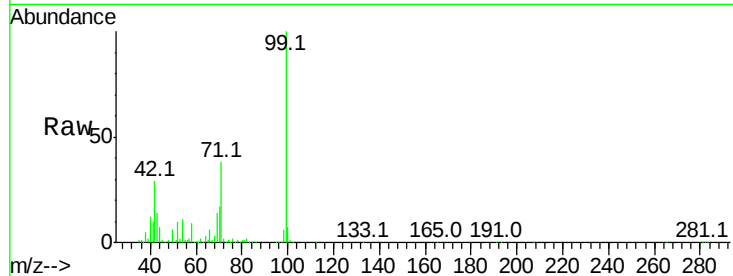
BNA\_F

ClientSampleId :

26WARD-4-CS-2(8-16FTBGS)

Tot Ion: 99 Resp: 1315564

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 29.1  | 13.6  | 20.4# |
| 71  | 37.8  | 24.6  | 36.8# |

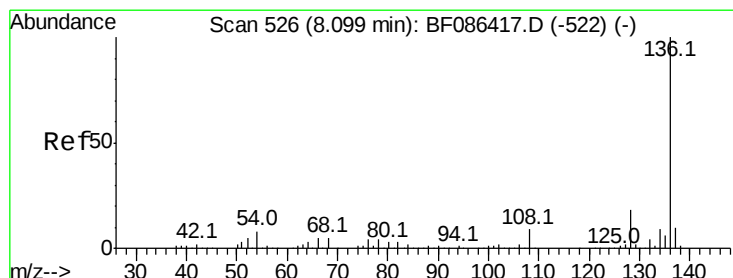
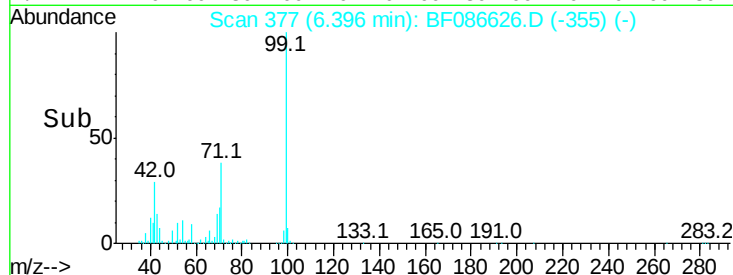
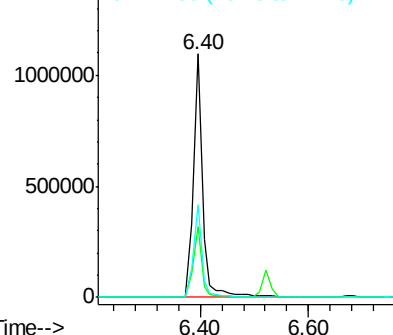


Abundance

Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.04 min Scan# 521

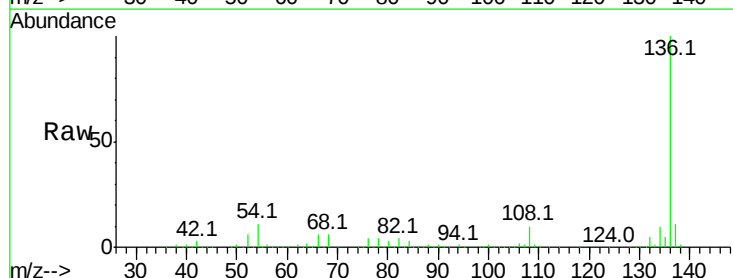
Delta R.T. -0.06 min

Lab File: BF086626.D

Acq: 2 May 2016 19:22

Tgt Ion: 136 Resp: 744973

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.8  | 8.8   | 13.2  |
| 54  | 10.6  | 5.0   | 7.4#  |
| 68  | 6.3   | 4.4   | 6.6   |



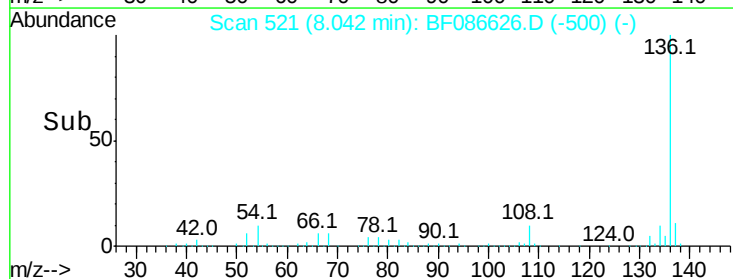
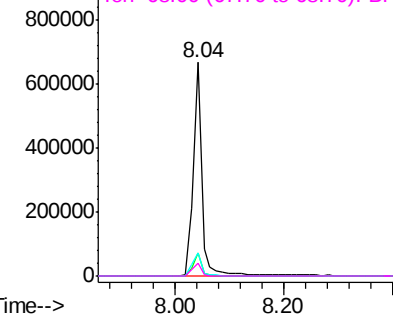
Abundance

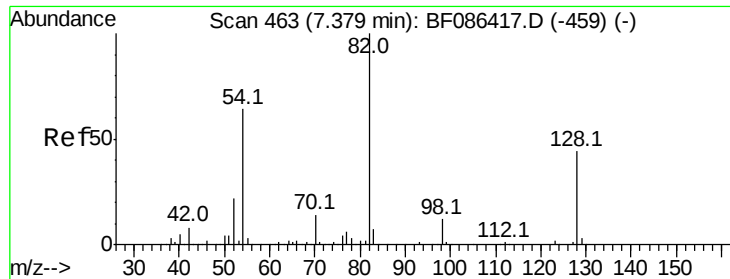
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

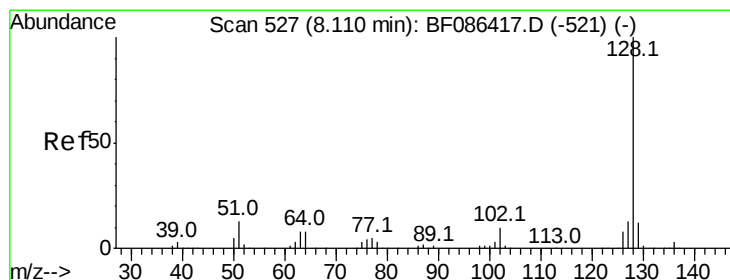
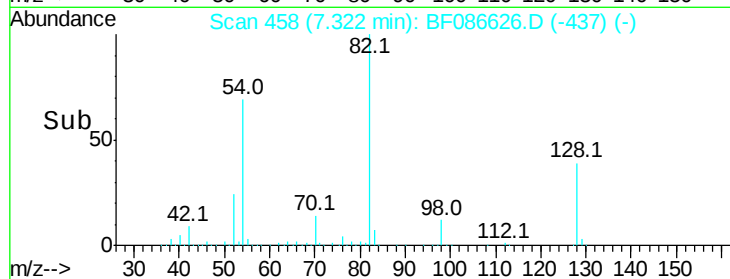
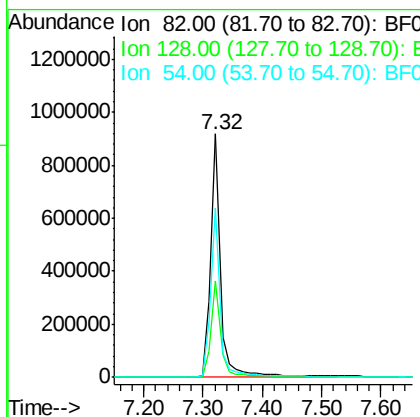
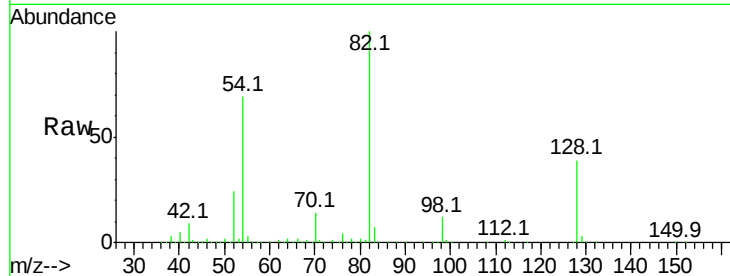




#23  
Nitrobenzene-d5  
Concen: 78.53 ng  
RT: 7.32 min Scan# 458  
Delta R.T. -0.06 min  
Lab File: BF086626.D  
Acq: 2 May 2016 19:22

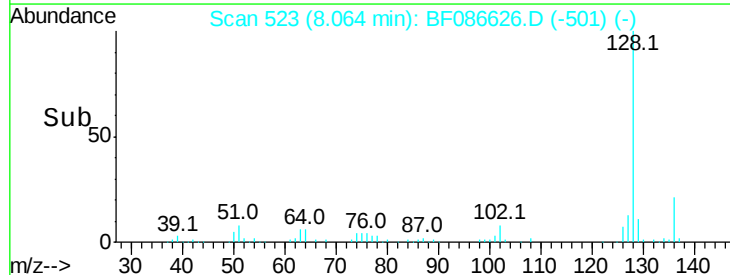
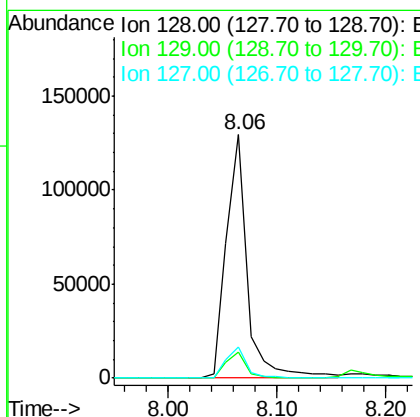
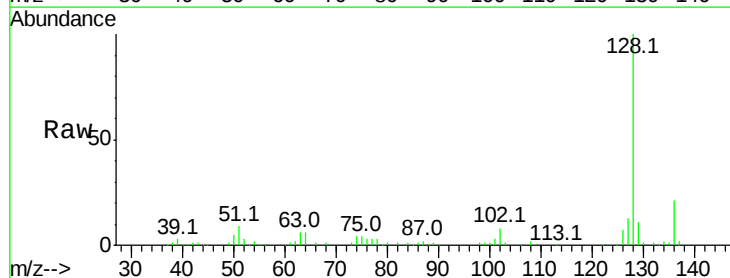
Instrument :  
BNA\_F  
ClientSampleId :  
26WARD-4-CS-2(8-16FTBGS)

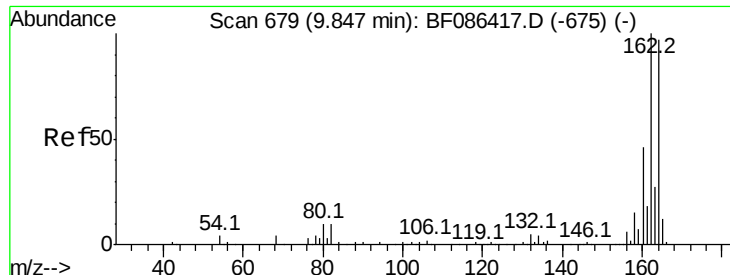
Tot Ion: 82 Resp: 1085403  
Ion Ratio Lower Upper  
82 100  
128 39.5 40.6 61.0#  
54 69.4 38.1 57.1#



#31  
Naphthalene  
Concen: 4.50 ng  
RT: 8.06 min Scan# 523  
Delta R.T. -0.05 min  
Lab File: BF086626.D  
Acq: 2 May 2016 19:22

Tgt Ion: 128 Resp: 170638  
Ion Ratio Lower Upper  
128 100  
129 10.5 8.6 13.0  
127 12.8 10.8 16.2

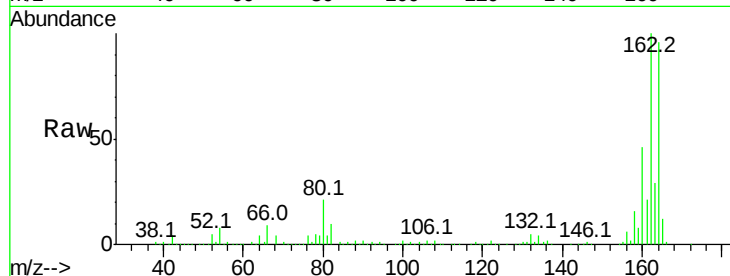




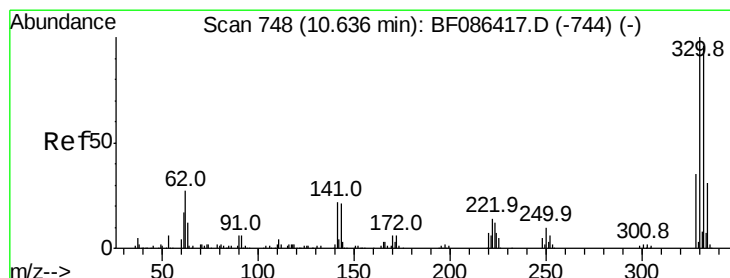
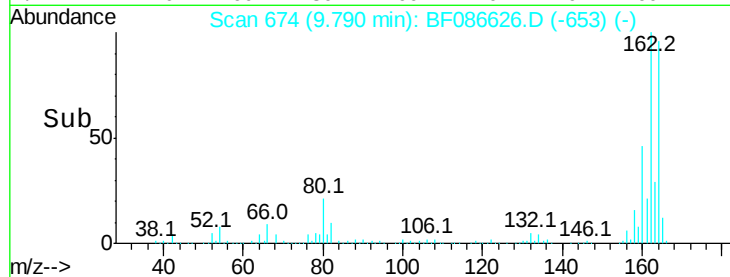
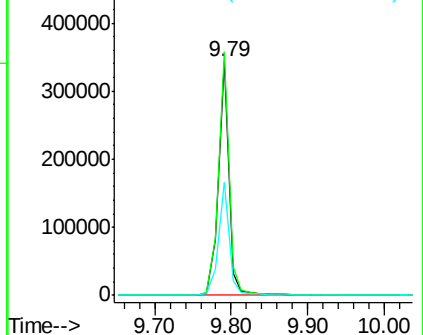
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.79 min Scan# 674  
Delta R.T. -0.06 min  
Lab File: BF086626.D  
Acq: 2 May 2016 19:22

Instrument :  
BNA\_F  
ClientSampleId :  
26WARD-4-CS-2(8-16FTBGS)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.3 | 82.8  | 124.2 |
| 160     | 48.2  | 36.9  | 55.3  |

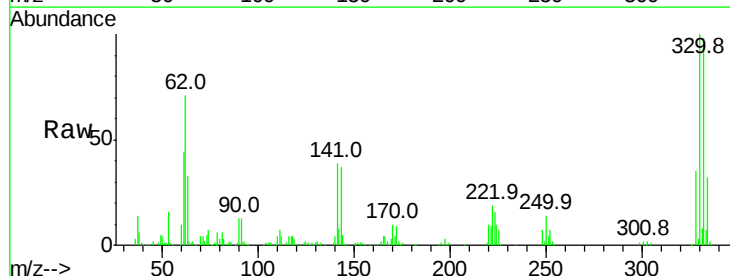


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

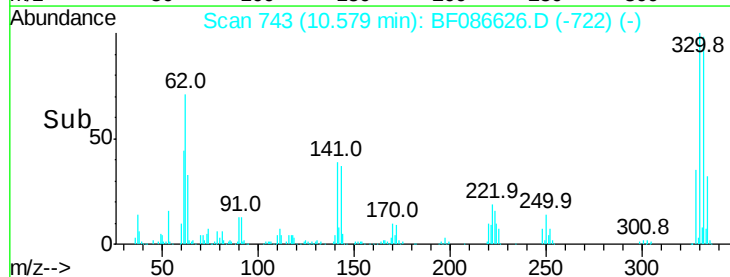
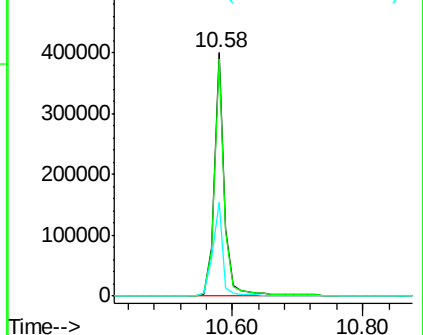


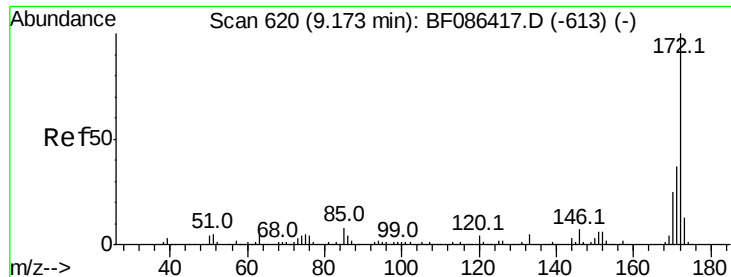
#41  
2,4,6-Tribromophenol  
Concen: 128.49 ng  
RT: 10.58 min Scan# 743  
Delta R.T. -0.06 min  
Lab File: BF086626.D  
Acq: 2 May 2016 19:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.8  | 79.0  | 118.4 |
| 141     | 38.9  | 31.2  | 46.8  |



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E



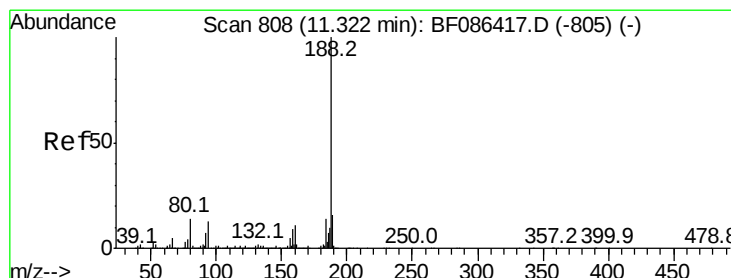
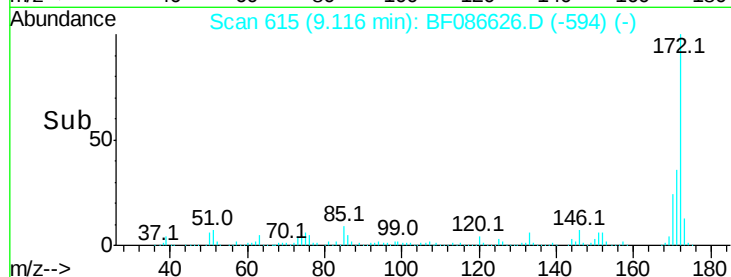
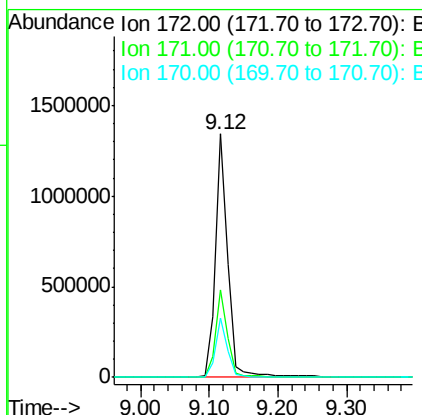
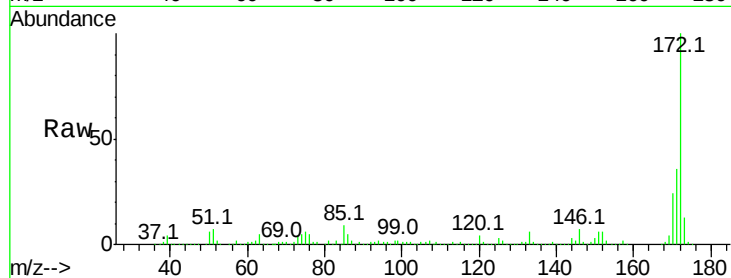


#44  
 2-Fluorobiphenyl  
 Concen: 92.68 ng  
 RT: 9.12 min Scan# 615  
 Delta R.T. -0.06 min  
 Lab File: BF086626.D  
 Acq: 2 May 2016 19:22

Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-4-CS-2(8-16FTBGS)

Tot Ion:172 Resp: 1733739  

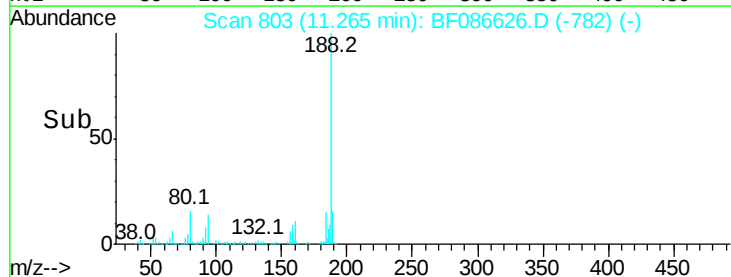
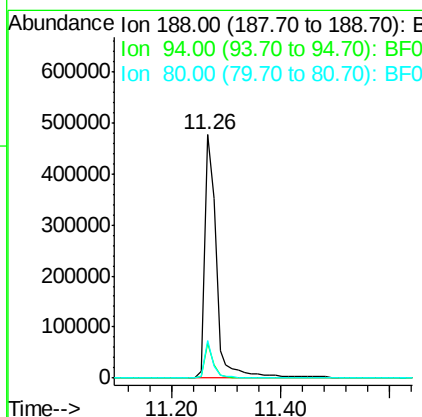
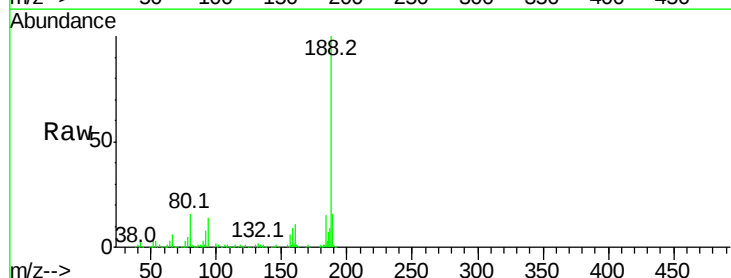
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.1  | 29.0  | 43.6  |
| 170 | 24.4  | 19.8  | 29.8  |

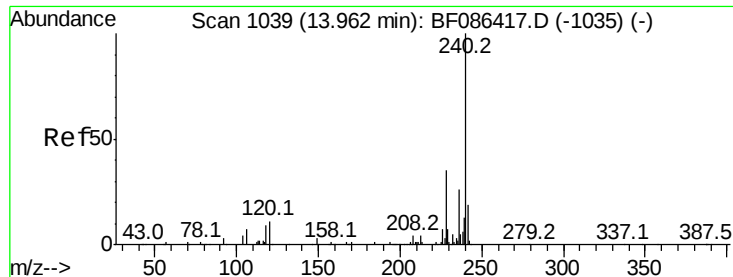


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.26 min Scan# 803  
 Delta R.T. -0.06 min  
 Lab File: BF086626.D  
 Acq: 2 May 2016 19:22

Tgt Ion:188 Resp: 705425  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 14.4  | 6.8   | 10.2# |
| 80  | 15.6  | 7.1   | 10.7# |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 1033

Delta R.T. -0.07 min

Lab File: BF086626.D

Acq: 2 May 2016 19:22

Instrument :

BNA\_F

ClientSampleId :

26WARD-4-CS-2(8-16FTBGS)

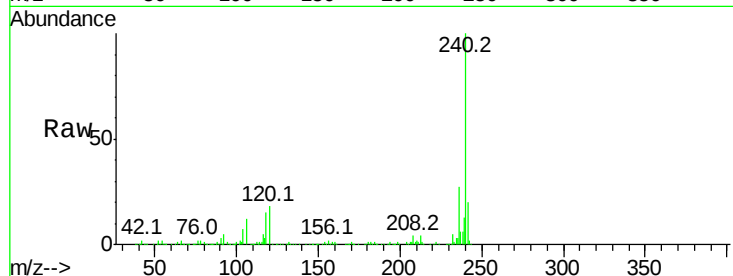
Tot Ion:240 Resp: 549138

Ion Ratio Lower Upper

240 100

120 18.1 11.2 16.8#

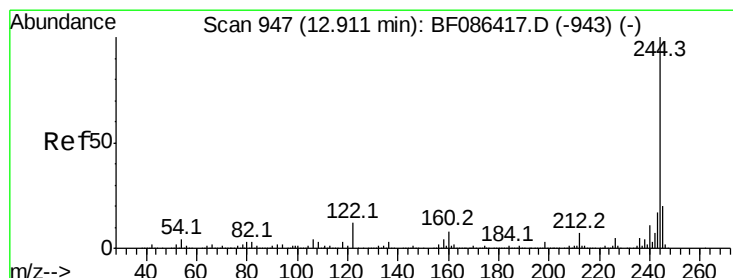
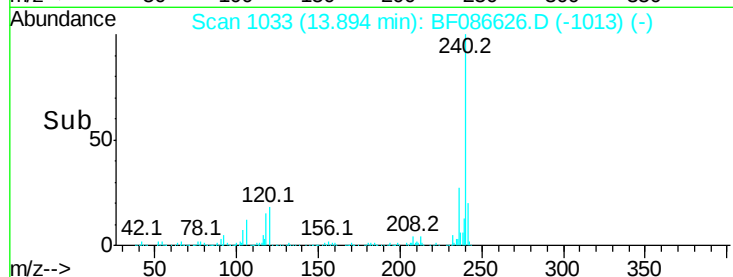
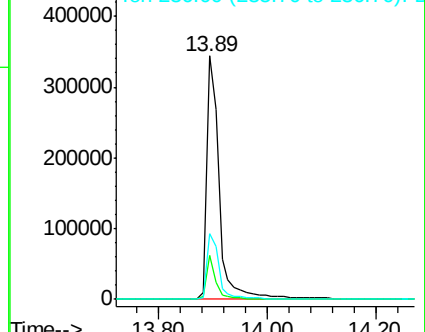
236 27.0 21.2 31.8



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Terphenyl-d14

Concen: 83.33 ng

RT: 12.86 min Scan# 943

Delta R.T. -0.05 min

Lab File: BF086626.D

Acq: 2 May 2016 19:22

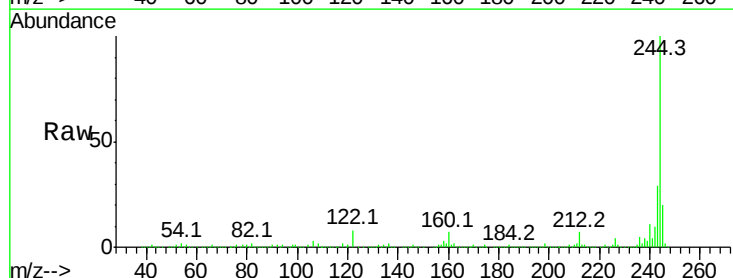
Tgt Ion:244 Resp: 2077058

Ion Ratio Lower Upper

244 100

212 7.1 6.2 9.2

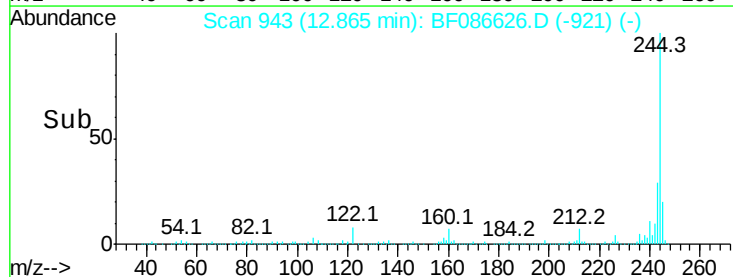
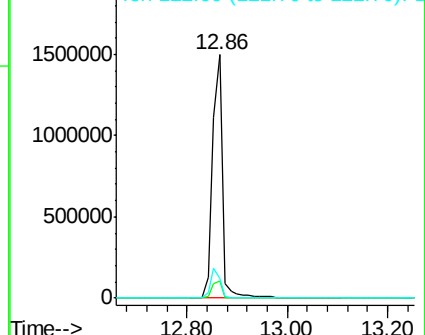
122 8.3 12.0 18.0#

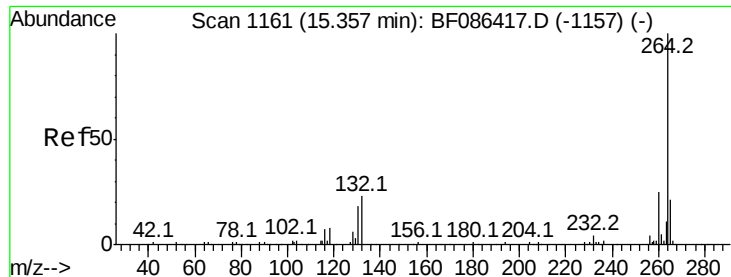


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

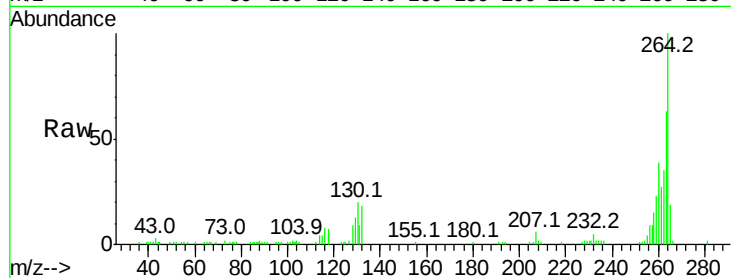




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.29 min Scan# 1155  
Delta R.T. -0.07 min  
Lab File: BF086626.D  
Acq: 2 May 2016 19:22

Instrument :  
BNA\_F  
ClientSampleId :  
26WARD-4-CS-2(8-16FTBGS)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 39.4  | 19.5  | 29.3  |
| 265     | 19.5  | 17.3  | 25.9  |



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

