

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061215\  
 Data File : BF079959.D  
 Acq On : 13 Jun 2015 5:21  
 Operator : TP/IZ  
 Sample : G2522-18  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-15

Manual Integrations  
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apatel  
 6/15/2015 1:00:10 PM

Quant Time: Jun 15 01:04:33 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF061115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 12 22:57:49 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.38  | 152  | 41055    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.67  | 136  | 162940   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.44 | 164  | 84270    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.94 | 188  | 190395   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12            | 14.81 | 240  | 209534m  | 20.00  | ng    | -0.33    |
| 86) Perylene-d12            | 16.66 | 264  | 198935m  | 20.00  | ng    | -0.43    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.99  | 112  | 180648   | 80.68  | ng    | 0.00     |
| 7) Phenol-d6                | 6.97  | 99   | 152680   | 50.05  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.93  | 82   | 290832   | 117.77 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.23 | 330  | 121594   | 142.96 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.75  | 172  | 672258   | 111.71 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.59 | 244  | 867435m  | 95.44  | ng    | -0.18    |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 8.70  | 128  | 565380   | 63.48  | ng    | 99       |
| 48) Acenaphthylene          | 10.30 | 152  | 23779    | 2.43   | ng    | 99       |

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

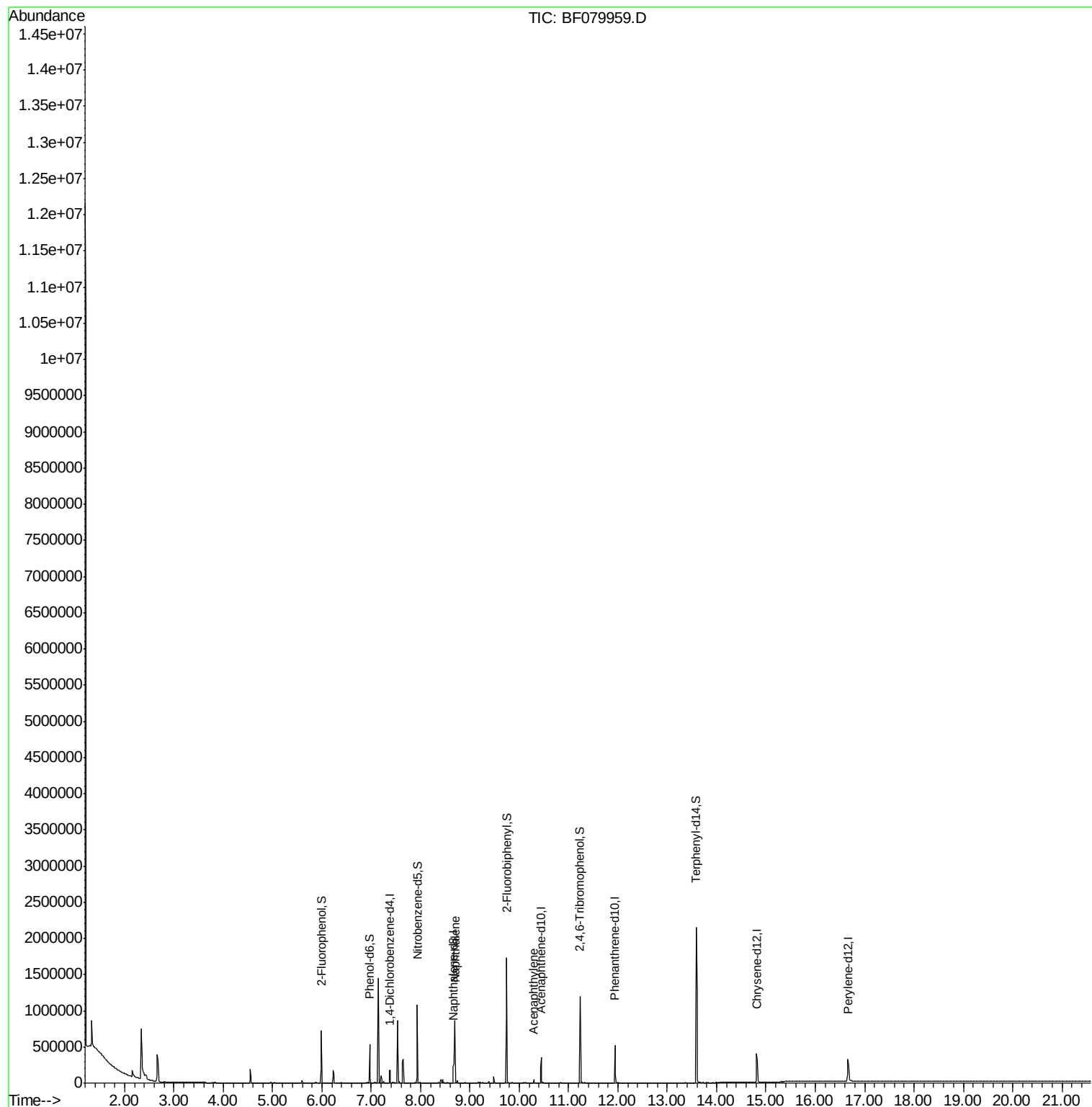
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061215\  
Data File : BF079959.D  
Acq On : 13 Jun 2015 5:21  
Operator : TP/IZ  
Sample : G2522-18  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

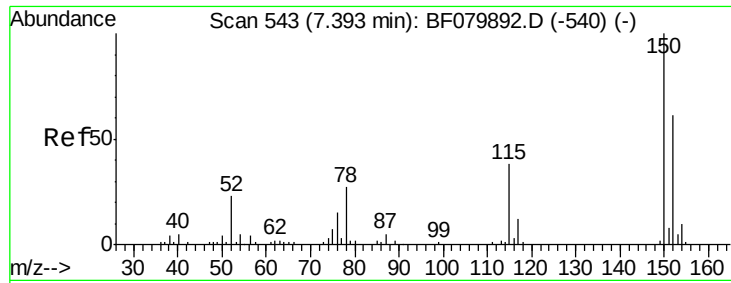
Instrument :  
BNA\_F  
ClientSampleId :  
MW-15

Quant Time: Jun 15 01:04:33 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF061115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 12 22:57:49 2015  
Response via : Initial Calibration

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#1

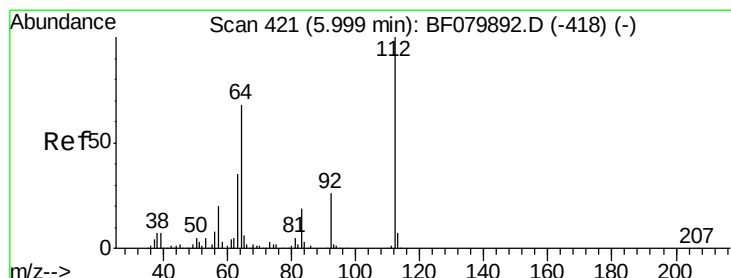
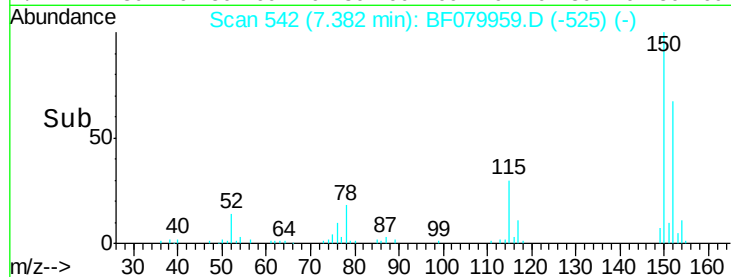
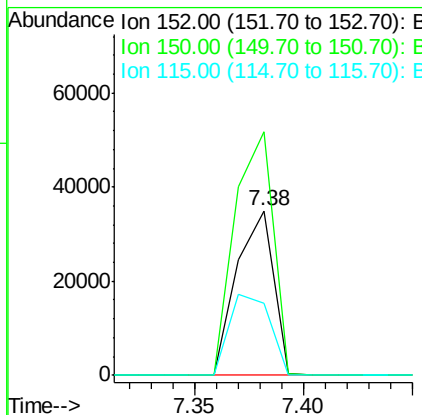
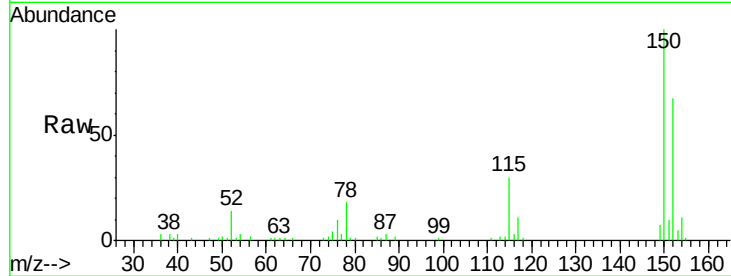
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.38 min Scan# 542  
Delta R.T. 0.00 min  
Lab File: BF079959.D  
Acq: 13 Jun 2015 5:21

Instrument :  
BNA\_F  
ClientSampleId :  
MW-15

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 152     | 100   | 41055 |       |       |
| 150     | 148.2 | 131.0 | 196.4 |       |
| 115     | 44.2  | 49.8  | 74.6  |       |

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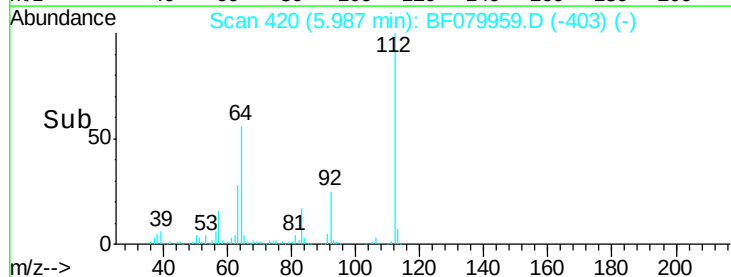
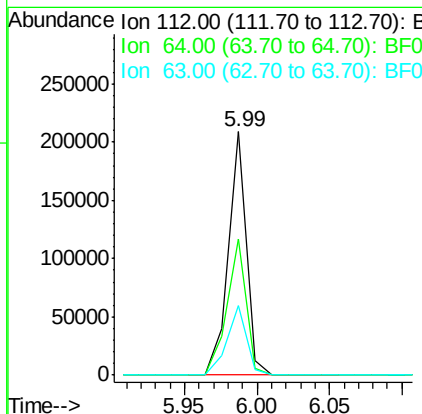
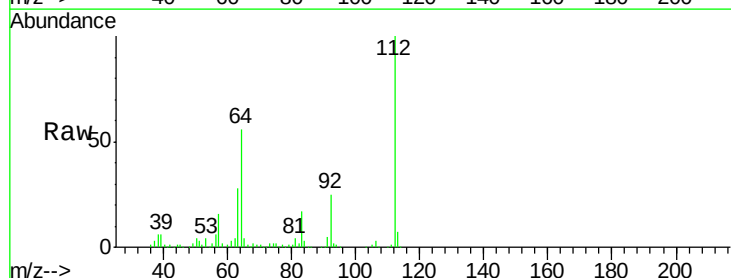
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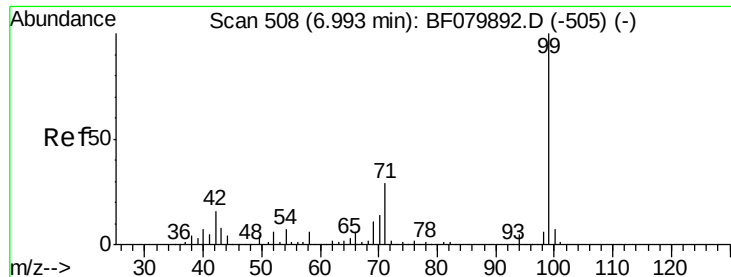


#5

2-Fluorophenol  
Concen: 80.68 ng  
RT: 5.99 min Scan# 420  
Delta R.T. 0.00 min  
Lab File: BF079959.D  
Acq: 13 Jun 2015 5:21

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 112     | 100   | 180648 |       |       |
| 64      | 56.2  | 54.5   | 81.7  |       |
| 63      | 28.4  | 27.9   | 41.9  |       |





#7

Phenol-d6

Concen: 50.05 ng

RT: 6.97 min Scan# 506

Delta R.T. 0.00 min

Lab File: BF079959.D

Acq: 13 Jun 2015 5:21

Instrument :

BNA\_F

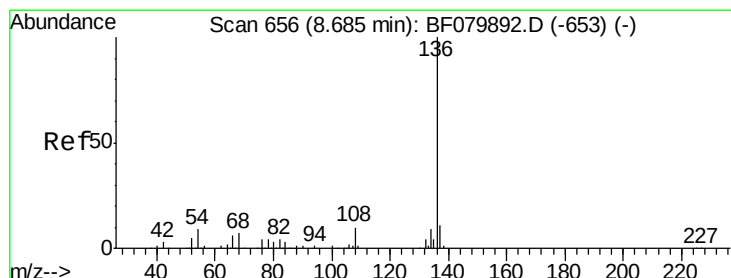
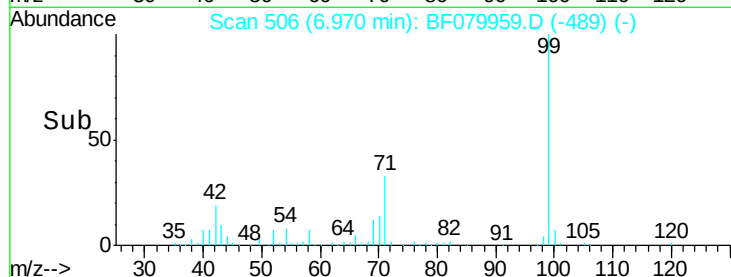
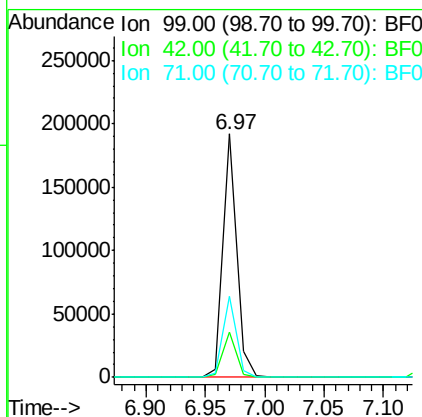
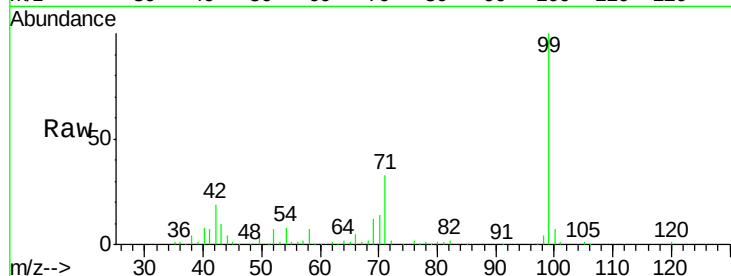
ClientSampled :

MW-15

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 152680 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 18.6  | 12.9  | 19.3   |
| 71       | 33.1  | 23.4  | 35.2   |

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#21

Naphthalene-d8

Concen: 20.00 ng

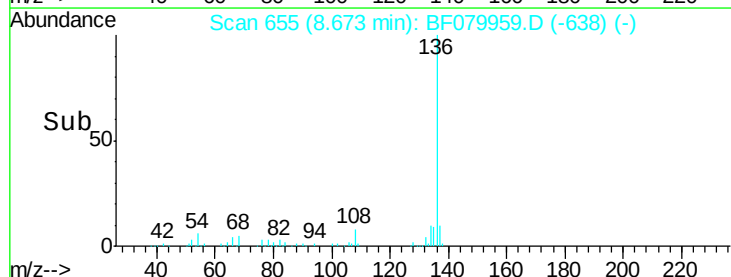
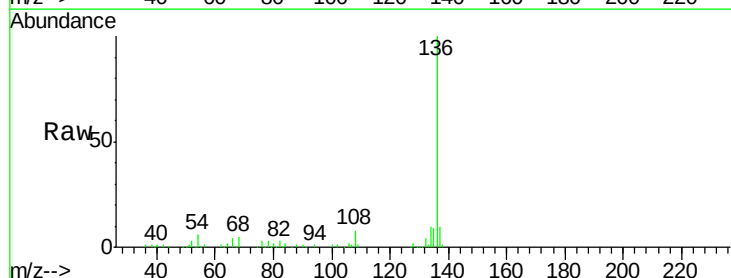
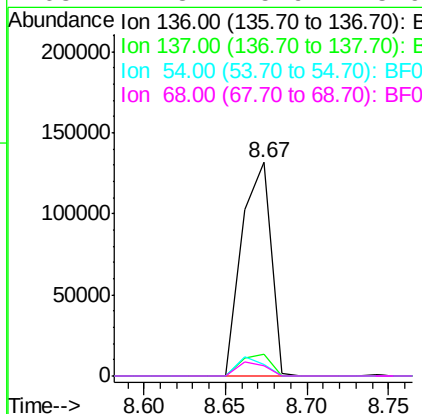
RT: 8.67 min Scan# 655

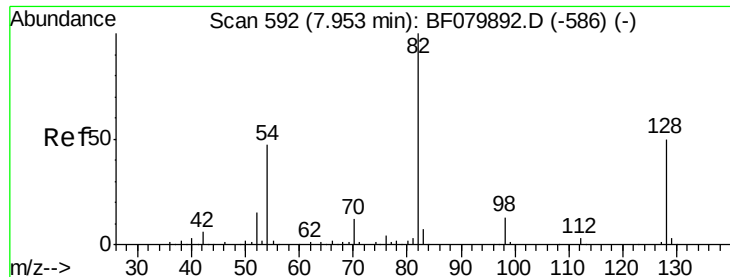
Delta R.T. 0.00 min

Lab File: BF079959.D

Acq: 13 Jun 2015 5:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 162940 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.3  | 8.7   | 13.1   |
| 54       | 5.6   | 7.3   | 10.9#  |
| 68       | 4.8   | 5.9   | 8.9#   |





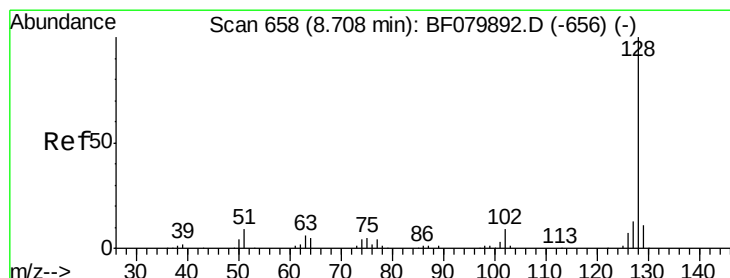
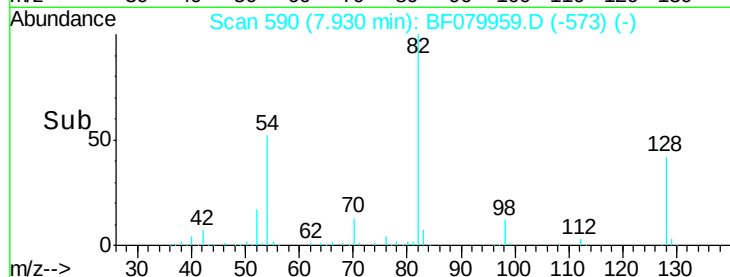
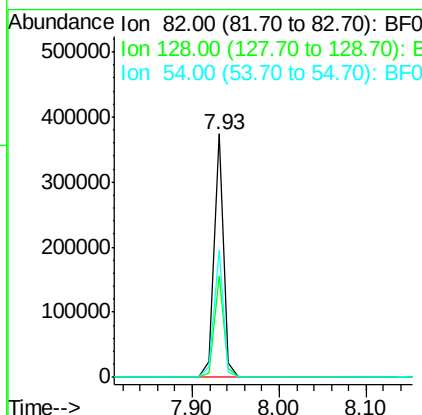
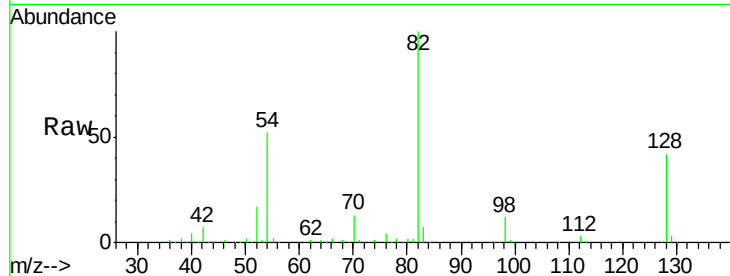
#23  
 Nitrobenzene-d5  
 Concen: 117.77 ng  
 RT: 7.93 min Scan# 590  
 Delta R.T. 0.00 min  
 Lab File: BF079959.D  
 Acq: 13 Jun 2015 5:21

Instrument :  
 BNA\_F  
 ClientSampled :  
 MW-15

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 82      | 100   |            |       |
| 128     | 41.7  | 40.3       | 60.5  |
| 54      | 52.0  | 38.0       | 57.0  |

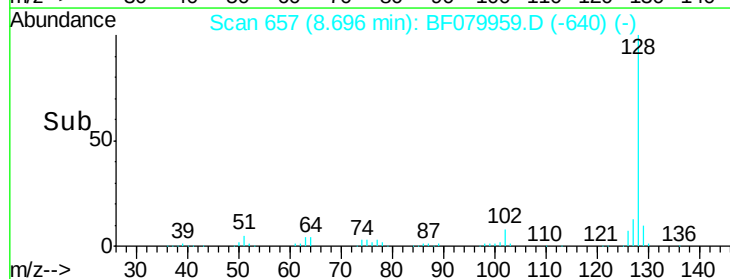
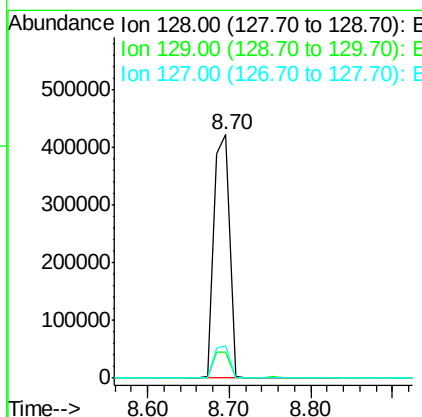
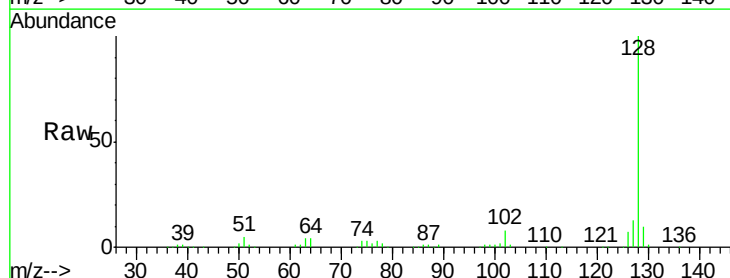
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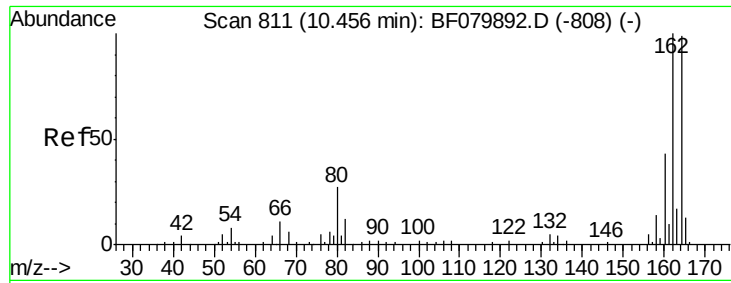
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#31  
 Naphthalene  
 Concen: 63.48 ng  
 RT: 8.70 min Scan# 657  
 Delta R.T. 0.00 min  
 Lab File: BF079959.D  
 Acq: 13 Jun 2015 5:21

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 128     | 100   |            |       |
| 129     | 10.5  | 8.8        | 13.2  |
| 127     | 13.2  | 10.5       | 15.7  |





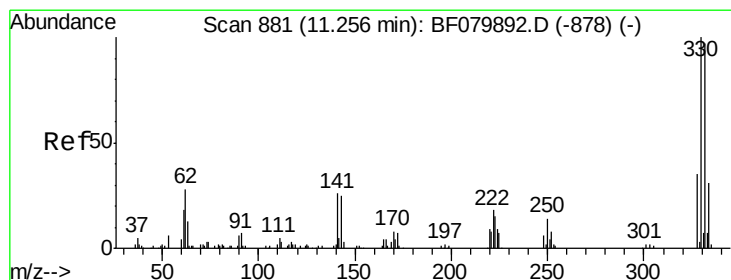
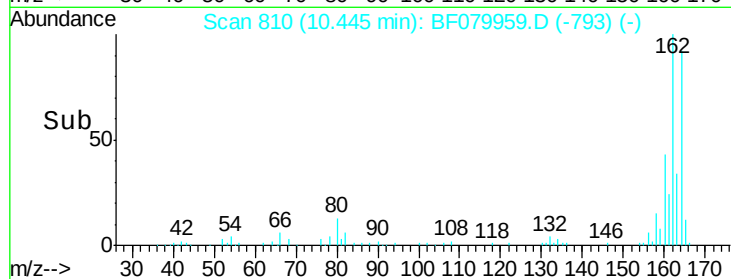
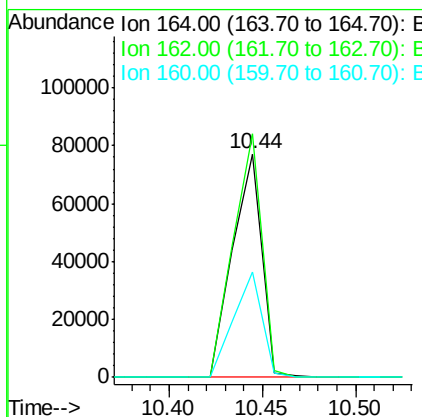
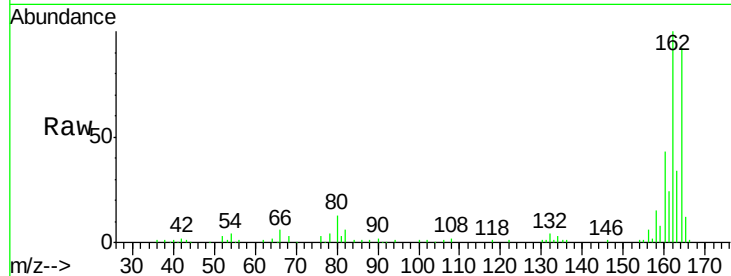
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.44 min Scan# 810  
 Delta R.T. 0.00 min  
 Lab File: BF079959.D  
 Acq: 13 Jun 2015 5:21

Instrument :  
 BNA\_F  
 ClientSampled :  
 MW-15

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 164     | 100   | 84270 |       |       |
| 162     | 109.1 | 80.7  | 121.1 |       |
| 160     | 46.9  | 34.6  | 51.8  |       |

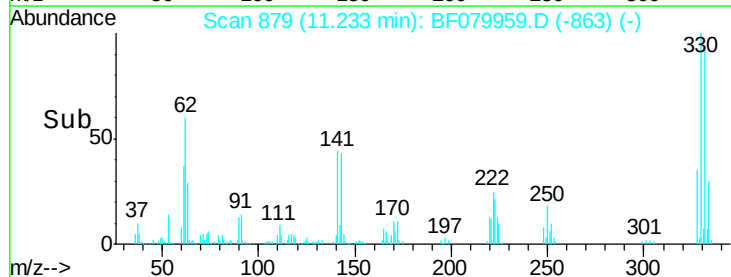
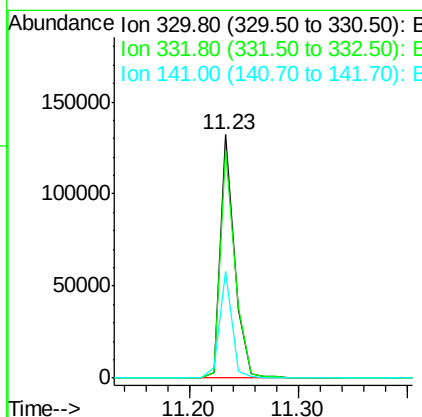
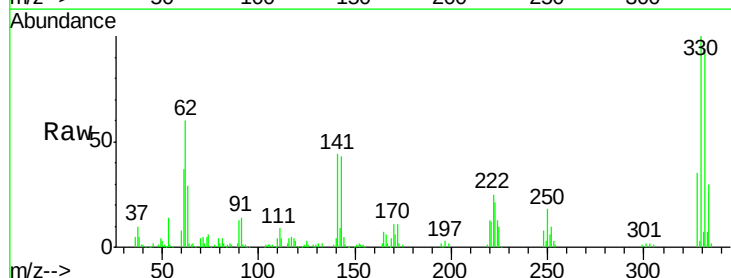
Manual Integrations  
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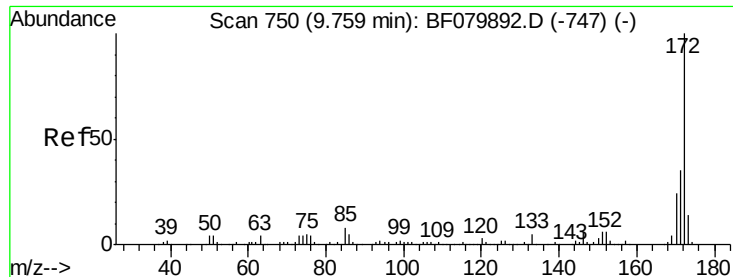
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#41  
 2,4,6-Tribromophenol  
 Concen: 142.96 ng  
 RT: 11.23 min Scan# 879  
 Delta R.T. -0.01 min  
 Lab File: BF079959.D  
 Acq: 13 Jun 2015 5:21

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 121594 |       |       |
| 332     | 95.9  | 77.3   | 115.9 |       |
| 141     | 38.6  | 26.8   | 40.2  |       |





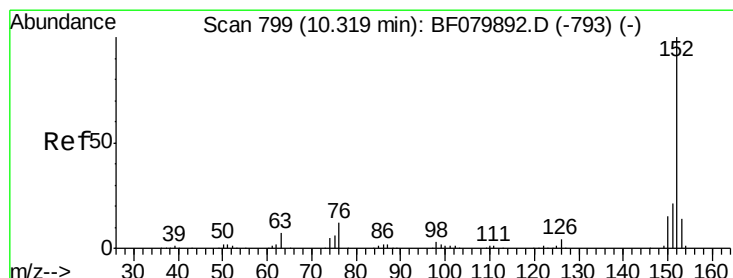
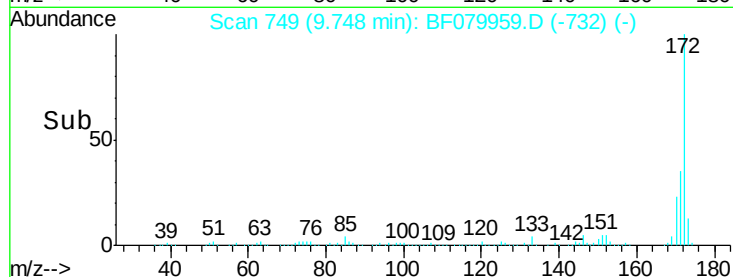
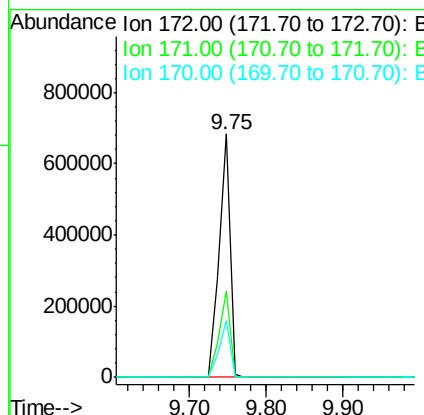
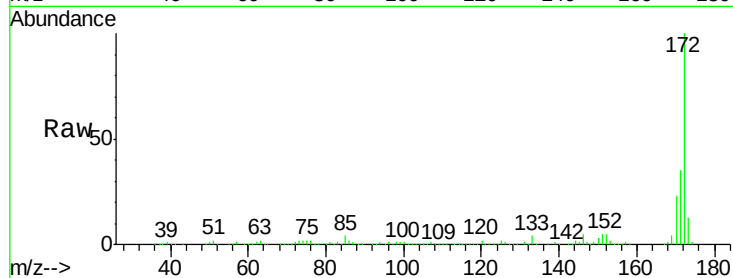
#44  
 2-Fluorobiphenyl  
 Concen: 111.71 ng  
 RT: 9.75 min Scan# 749  
 Delta R.T. 0.00 min  
 Lab File: BF079959.D  
 Acq: 13 Jun 2015 5:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 672258 |       |       |
| 171     | 35.5  | 28.3   | 42.5  |       |
| 170     | 23.5  | 19.0   | 28.4  |       |

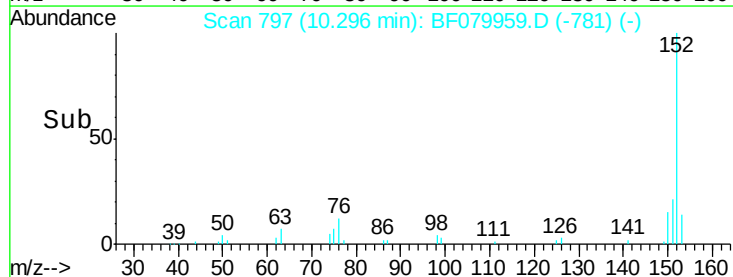
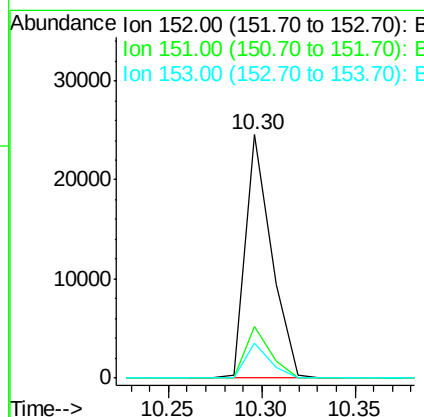
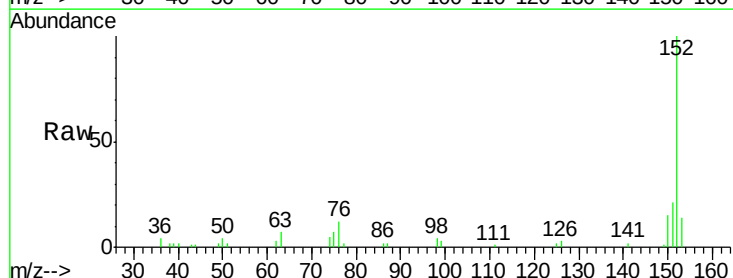
Manual Integrations  
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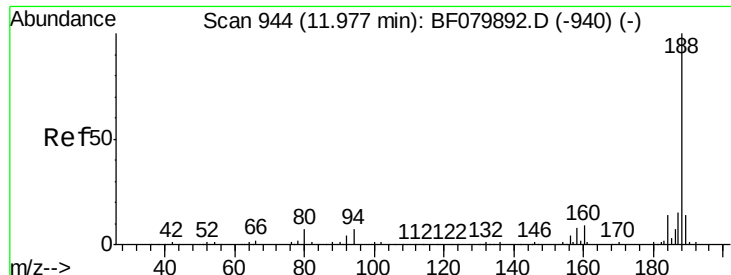
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#48  
 Acenaphthylene  
 Concen: 2.43 ng  
 RT: 10.30 min Scan# 797  
 Delta R.T. -0.01 min  
 Lab File: BF079959.D  
 Acq: 13 Jun 2015 5:21

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 152     | 100   | 23779 |       |       |
| 151     | 21.1  | 16.8  | 25.2  |       |
| 153     | 14.4  | 10.8  | 16.2  |       |





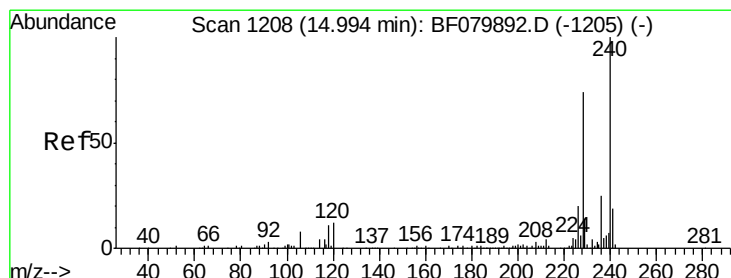
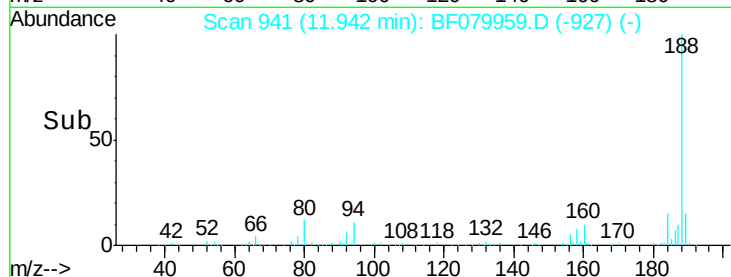
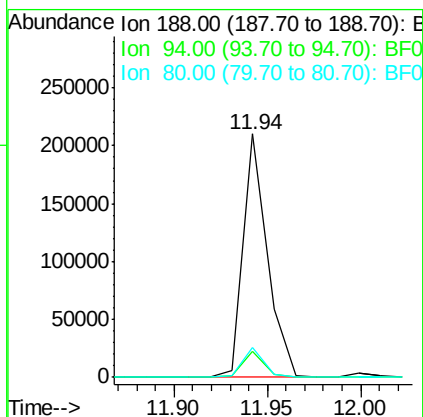
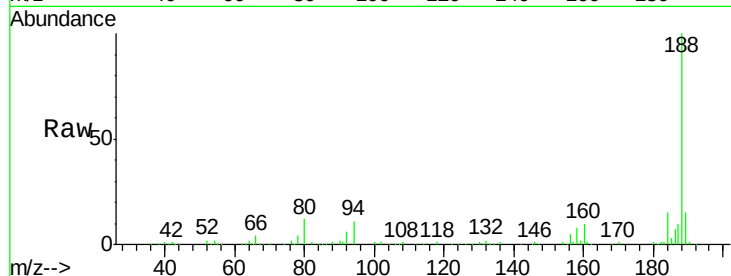
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.94 min Scan# 941  
Delta R.T. -0.03 min  
Lab File: BF079959.D  
Acq: 13 Jun 2015 5:21

Instrument :  
BNA\_F  
ClientSampled :  
MW-15

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 10.8  | 5.8        | 8.8#       |
| 80      | 12.4  | 5.9        | 8.9#       |

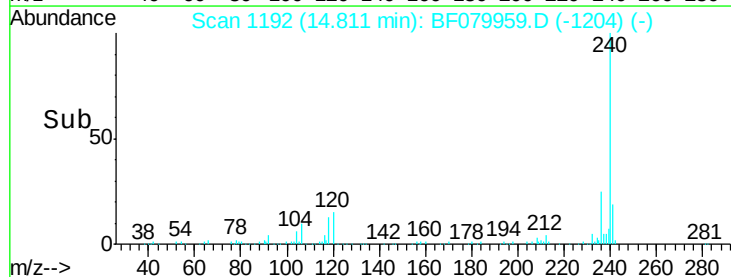
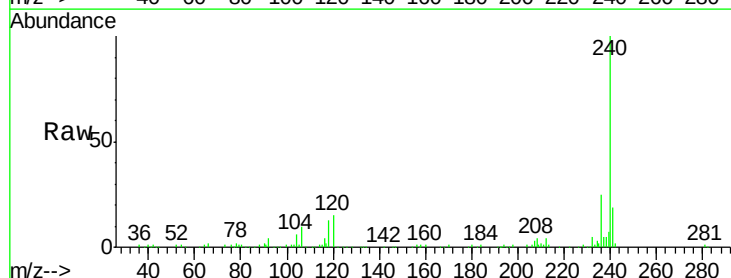
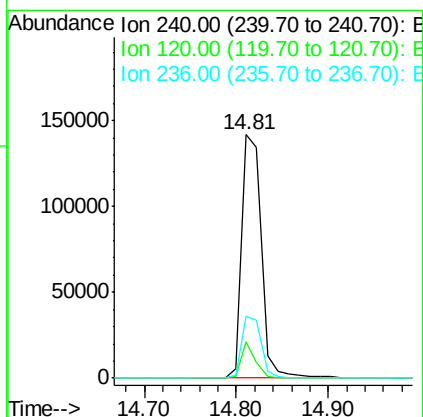
Manual Integrations  
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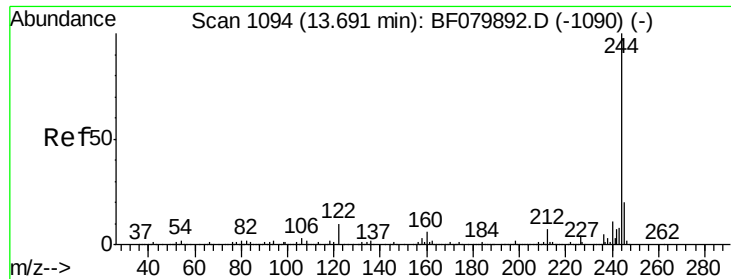


#75  
Chrysene-d12  
Concen: 20.00 ng m  
RT: 14.81 min Scan# 1192  
Delta R.T. -0.33 min  
Lab File: BF079959.D  
Acq: 13 Jun 2015 5:21

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 240     | 100   |            |            |
| 120     | 14.7  | 9.4        | 14.2#      |
| 236     | 25.5  | 19.6       | 29.4       |







#78

Terphenyl-d14

Concen: 95.44 ng m

RT: 13.59 min Scan# 1085

Delta R.T. -0.18 min

Lab File: BF079959.D

Acq: 13 Jun 2015 5:21

Instrument :

BNA\_F

ClientSampleId :

MW-15

Tgt Ion:244 Resp: 867435

Ion Ratio Lower Upper

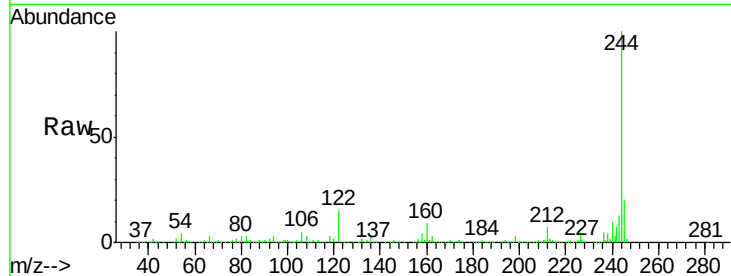
244 100

212 7.5 5.4 8.2

122 15.1 7.8 11.8#

Manual Integrations  
APPROVED

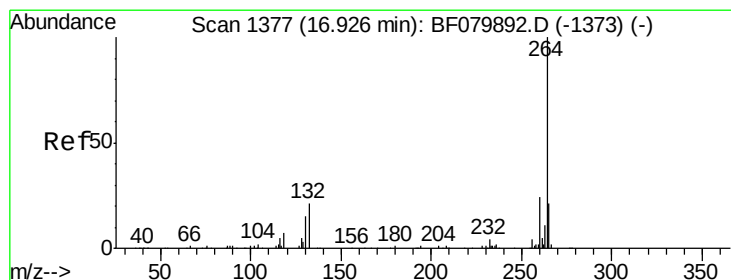
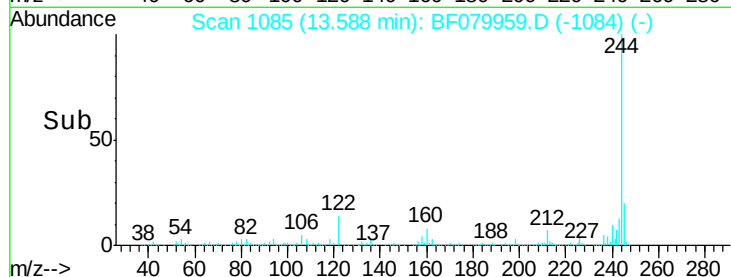
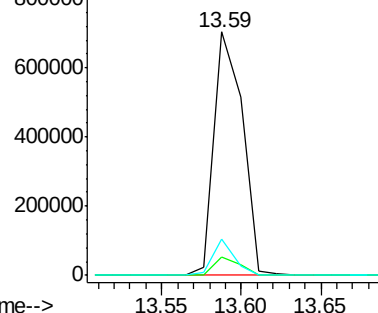
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.00 ng m

RT: 16.66 min Scan# 1354

Delta R.T. -0.43 min

Lab File: BF079959.D

Acq: 13 Jun 2015 5:21

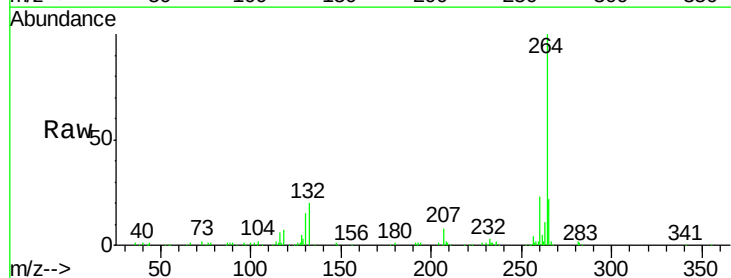
Tgt Ion:264 Resp: 198935

Ion Ratio Lower Upper

264 100

260 23.0 19.3 28.9

265 22.1 17.0 25.6



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

