

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102615\  
 Data File : BF082539.D  
 Acq On : 27 Oct 2015 8:57  
 Operator : UM/IZ  
 Sample : G4119-17RE  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB15-08-15.5-16RE

Quant Time: Oct 27 15:27:20 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 27 02:43:58 2015  
 Response via : Initial Calibration

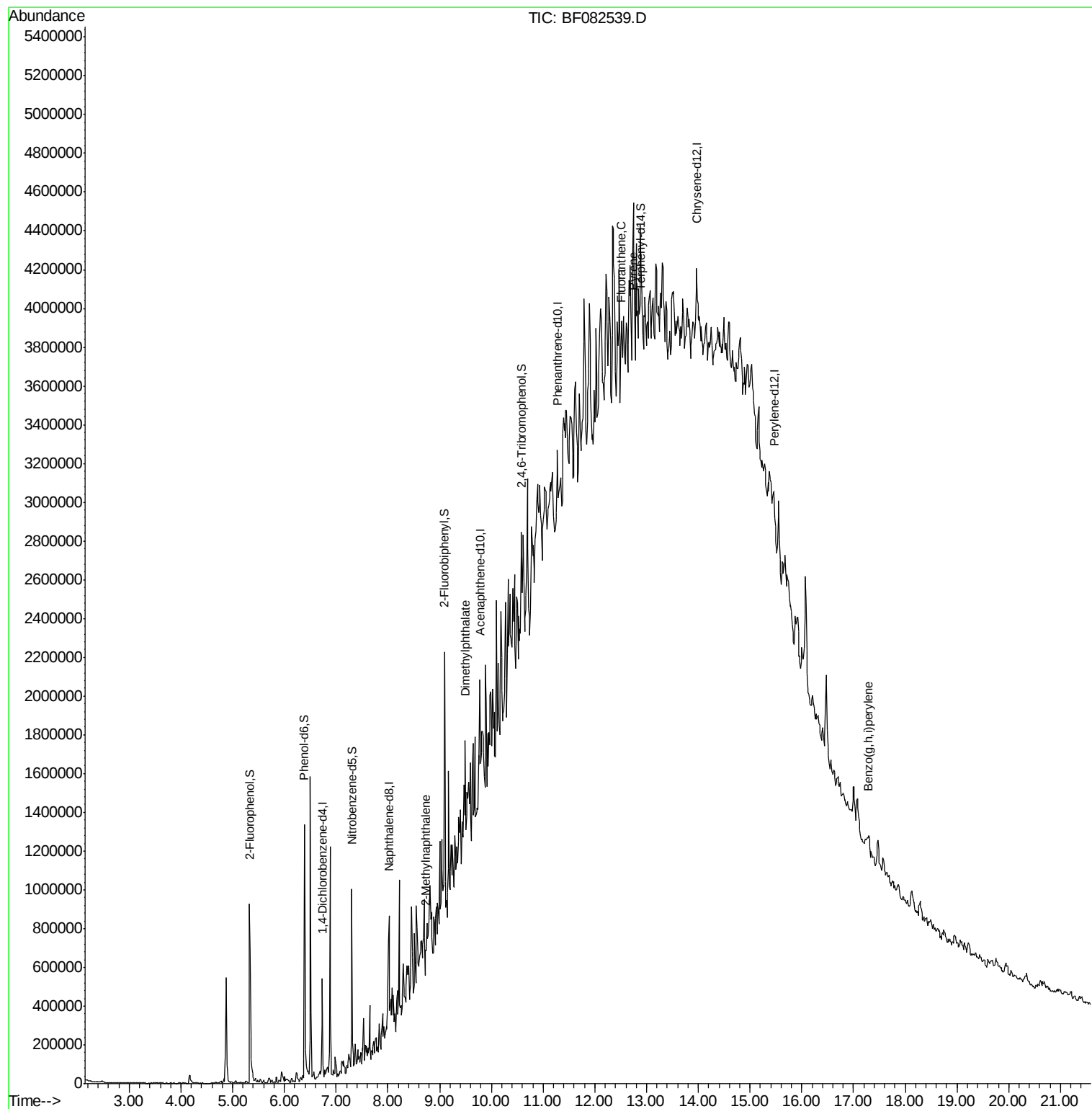
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.73  | 152  | 92825    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.02  | 136  | 328228   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.78  | 164  | 127091   | 20.00 | ng    | 0.01     |
| 63) Phenanthrene-d10        | 11.28 | 188  | 212331   | 20.00 | ng    | 0.02     |
| 75) Chrysene-d12            | 13.97 | 240  | 198552   | 20.00 | ng    | 0.06     |
| 86) Perylene-d12            | 15.46 | 264  | 144188   | 20.00 | ng    | 0.13     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.33  | 112  | 425100   | 90.41 | ng    | 0.01     |
| 7) Phenol-d6                | 6.39  | 99   | 519906   | 84.83 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.30  | 82   | 271426   | 53.35 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.58 | 330  | 71806    | 75.45 | ng    | 0.01     |
| 44) 2-Fluorobiphenyl        | 9.10  | 172  | 436986   | 54.68 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.88 | 244  | 329849   | 47.86 | ng    | 0.03     |
| Target Compounds            |       |      |          |       |       |          |
| 37) 2-Methylnaphthalene     | 8.73  | 142  | 21003    | 2.07  | ng    | # 89     |
| 49) Dimethylphthalate       | 9.50  | 163  | 128060   | 14.48 | ng    | # 98     |
| 74) Fluoranthene            | 12.50 | 202  | 154429   | 13.77 | ng    | 71       |
| 77) Pyrene                  | 12.74 | 202  | 501168   | 41.04 | ng    | # 92     |
| 91) Benzo(g,h,i)perylene    | 17.29 | 276  | 41230    | 6.71  | ng    | # 59     |

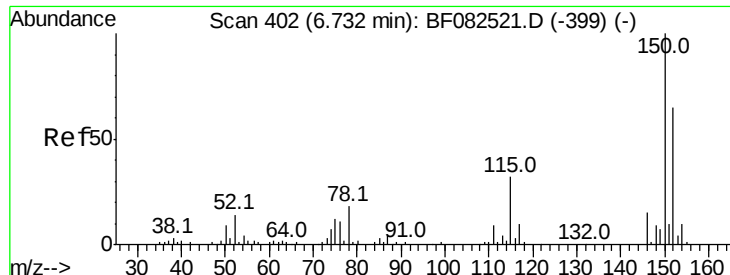
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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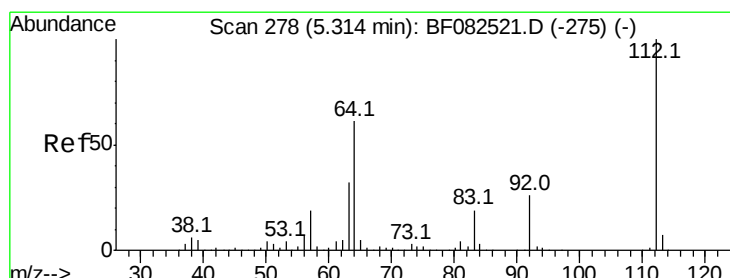
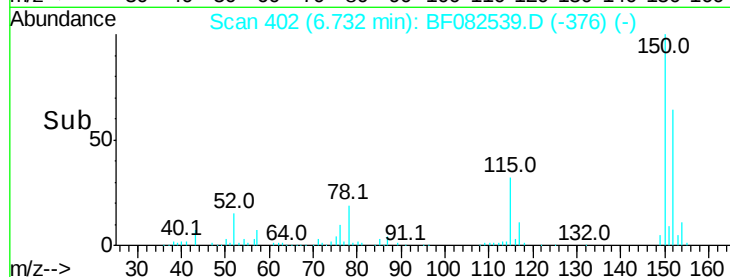
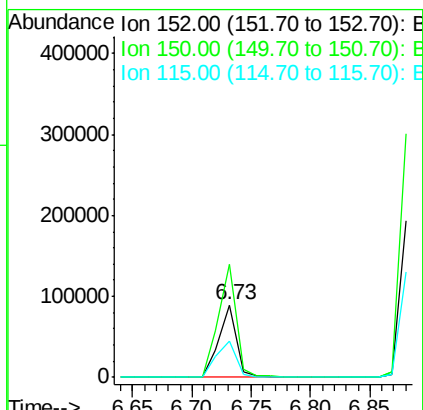
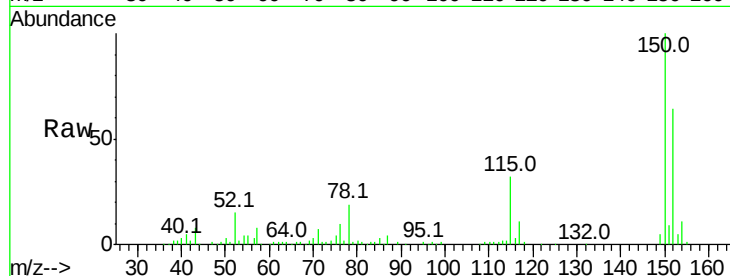


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.73 min Scan# 402  
 Delta R.T. 0.00 min  
 Lab File: BF082539.D  
 Acq: 27 Oct 2015 8:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB15-08-15.5-16RE

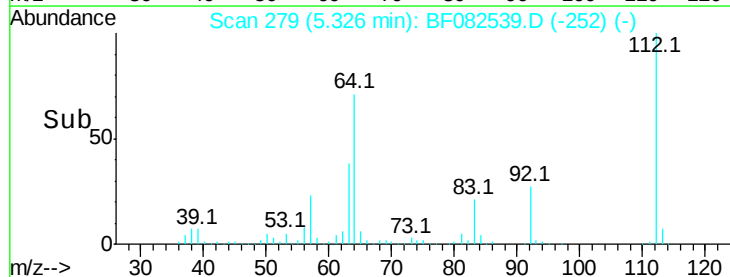
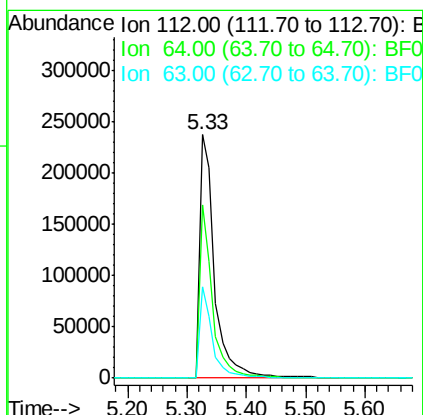
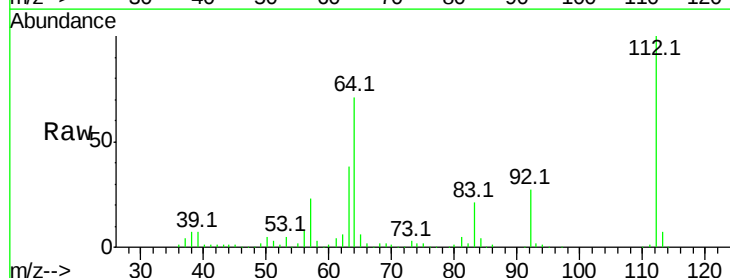
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.2 | 123.4 | 185.0 |
| 115     | 50.2  | 39.0  | 58.4  |

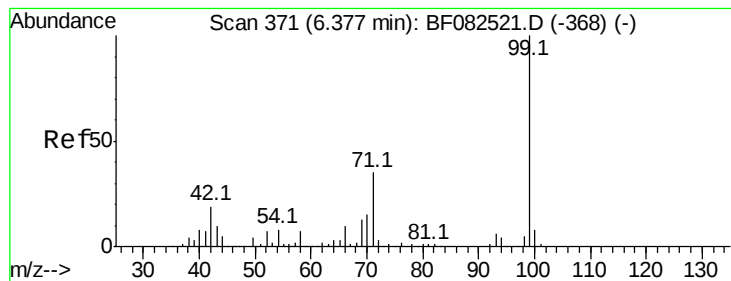


#5

2-Fluorophenol  
 Concen: 90.41 ng  
 RT: 5.33 min Scan# 279  
 Delta R.T. 0.01 min  
 Lab File: BF082539.D  
 Acq: 27 Oct 2015 8:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 71.3  | 49.0  | 73.4  |
| 63      | 37.7  | 25.8  | 38.6  |





#7

Phenol-d6

Concen: 84.83 ng

RT: 6.39 min Scan# 372

Delta R.T. 0.01 min

Lab File: BF082539.D

Acq: 27 Oct 2015 8:57

Instrument :

BNA\_F

ClientSampleId :

SB15-08-15.5-16RE

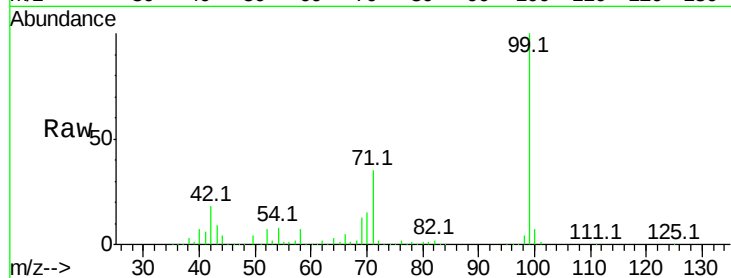
Tot Ion: 99 Resp: 519906

Ion Ratio Lower Upper

99 100

42 18.3 15.1 22.7

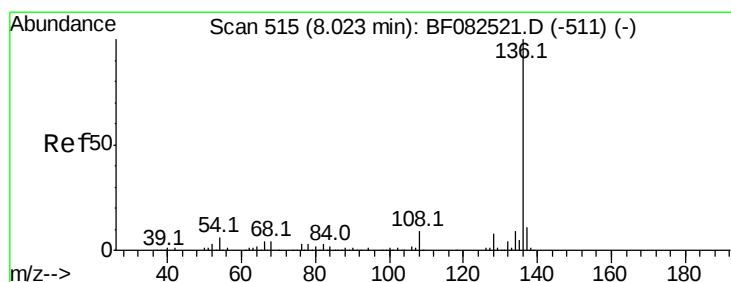
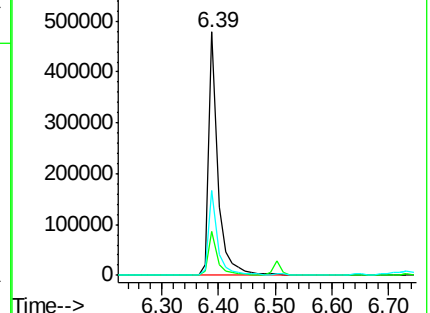
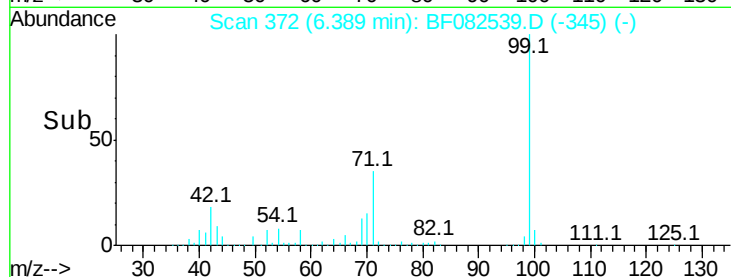
71 35.1 28.2 42.2



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: 8.02 min Scan# 515

Delta R.T. -0.00 min

Lab File: BF082539.D

Acq: 27 Oct 2015 8:57

Tgt Ion: 136 Resp: 328228

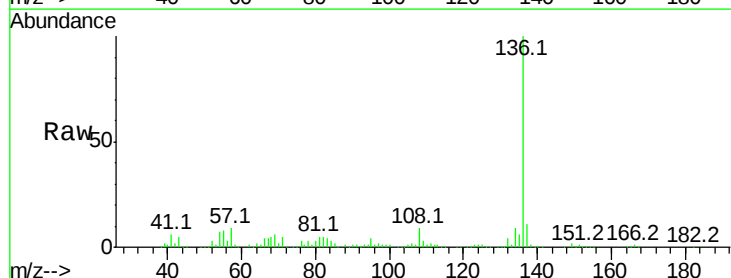
Ion Ratio Lower Upper

136 100

137 11.2 8.6 13.0

54 6.6 4.6 7.0

68 4.7 3.2 4.8

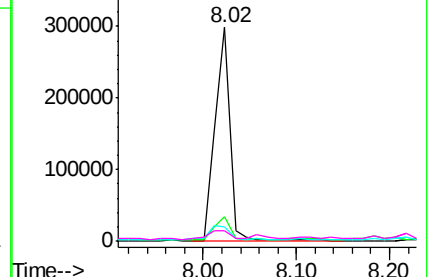
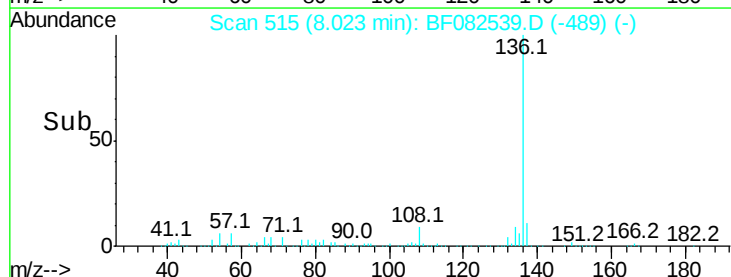


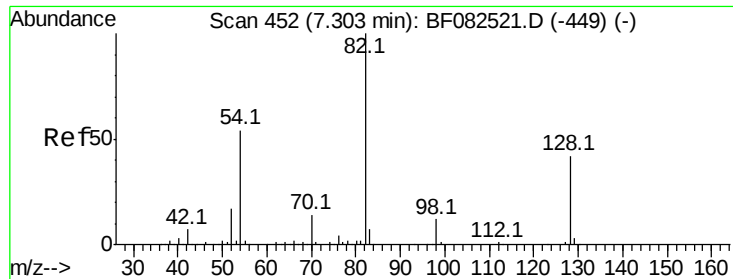
Abundance Ion 136.00 (135.70 to 136.70): E

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

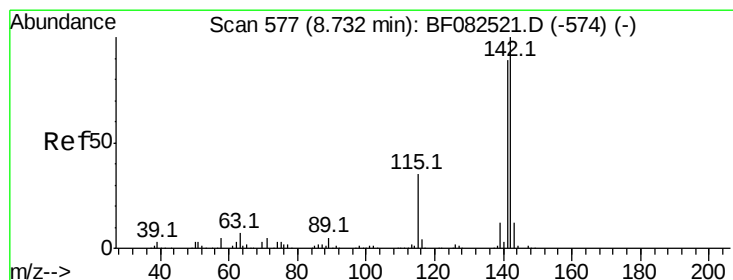
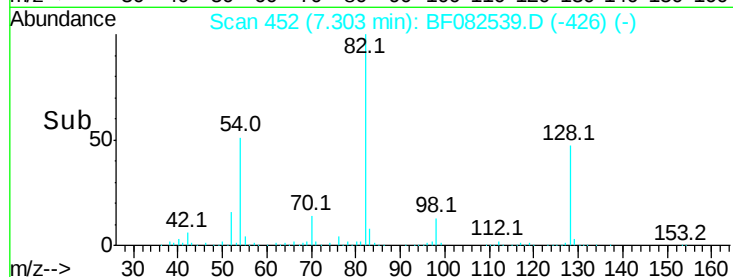
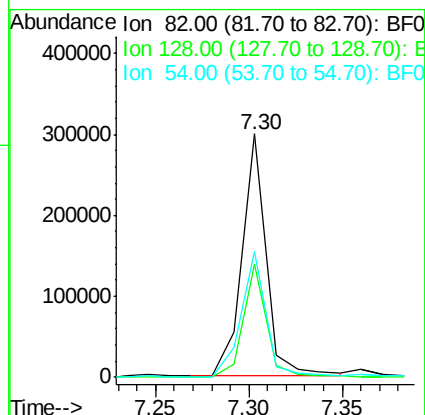
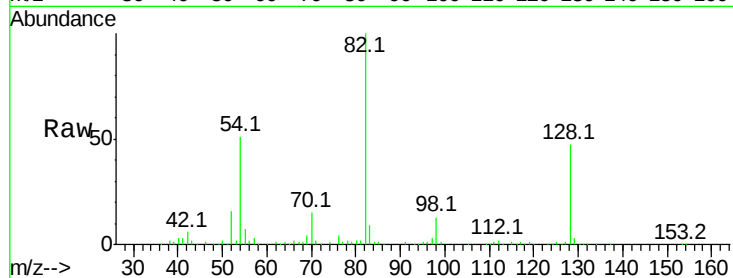




#23  
 Nitrobenzene-d5  
 Concen: 53.35 ng  
 RT: 7.30 min Scan# 452  
 Delta R.T. 0.00 min  
 Lab File: BF082539.D  
 Acq: 27 Oct 2015 8:57

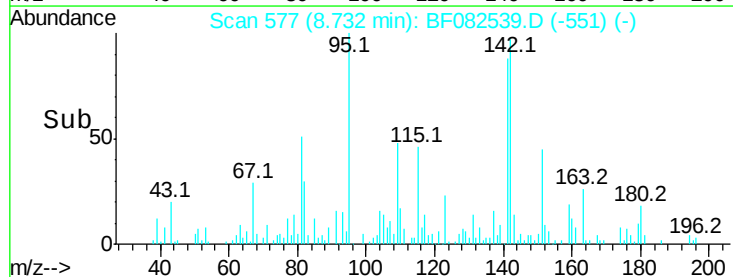
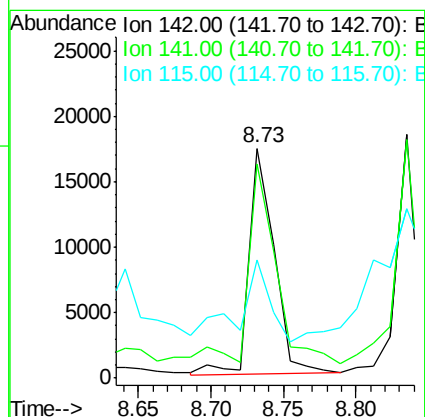
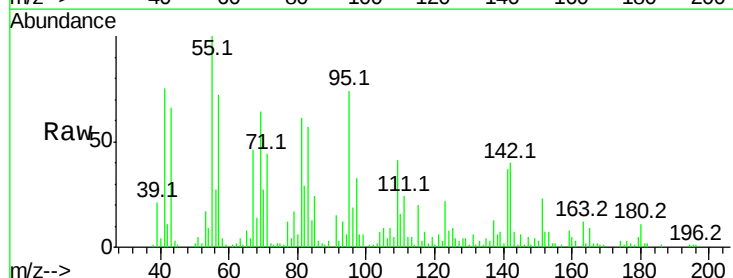
Instrument :  
 BNA\_F  
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 SB15-08-15.5-16RE

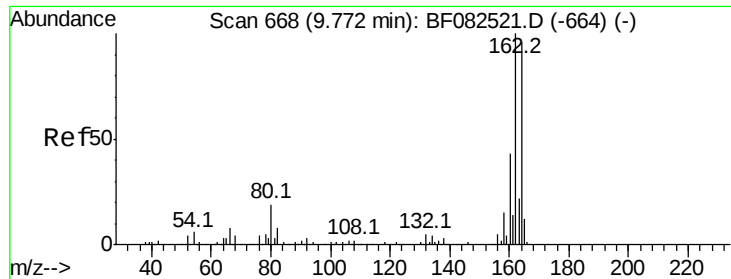
| Tot Ion   | 82    | Resp  | 271426 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 46.6  | 33.4  | 50.0   |
| 54        | 51.5  | 43.5  | 65.3   |



#37  
 2-Methylnaphthalene  
 Concen: 2.07 ng  
 RT: 8.73 min Scan# 577  
 Delta R.T. 0.00 min  
 Lab File: BF082539.D  
 Acq: 27 Oct 2015 8:57

| Tgt Ion   | 142   | Resp  | 21003 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 93.4  | 71.0  | 106.6 |
| 115       | 51.3  | 28.0  | 42.0# |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.78 min Scan# 669

Delta R.T. 0.01 min

Lab File: BF082539.D

Acq: 27 Oct 2015 8:57

Instrument :

BNA\_F

ClientSampleId :

SB15-08-15.5-16RE

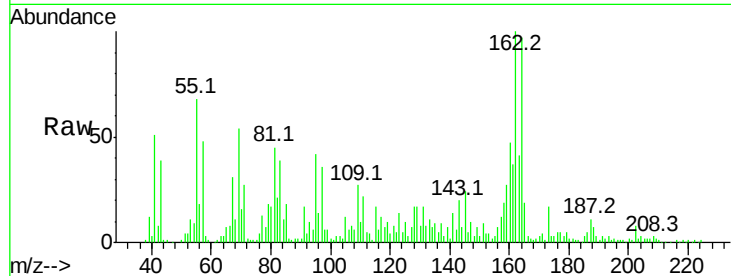
Tot Ion:164 Resp: 127091

Ion Ratio Lower Upper

164 100

162 103.5 83.6 125.4

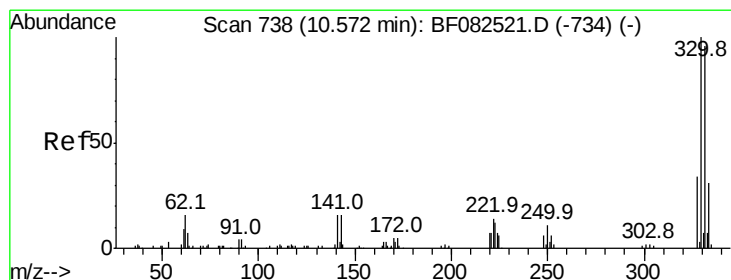
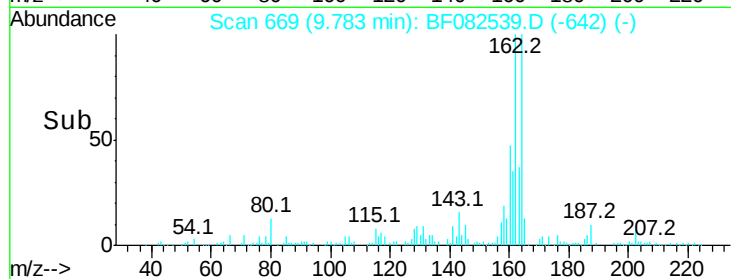
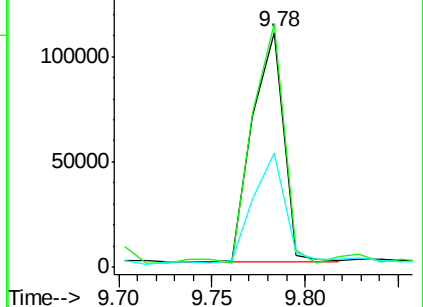
160 48.5 36.0 54.0



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: 75.45 ng

RT: 10.58 min Scan# 739

Delta R.T. 0.01 min

Lab File: BF082539.D

Acq: 27 Oct 2015 8:57

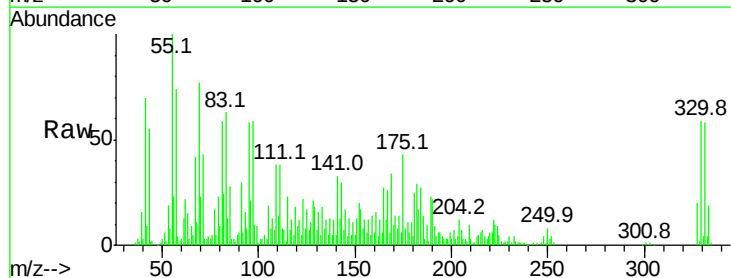
Tgt Ion:330 Resp: 71806

Ion Ratio Lower Upper

330 100

332 96.9 77.4 116.0

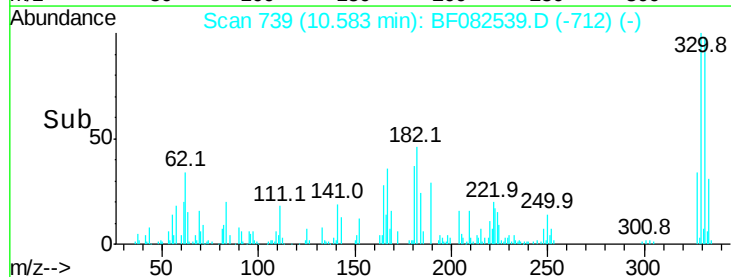
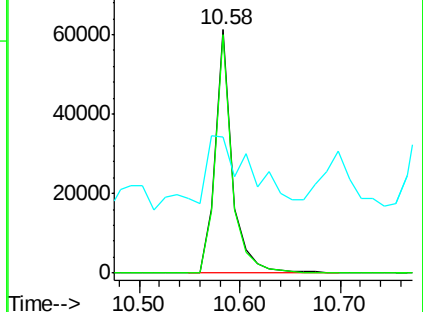
141 91.7 32.5 48.7#

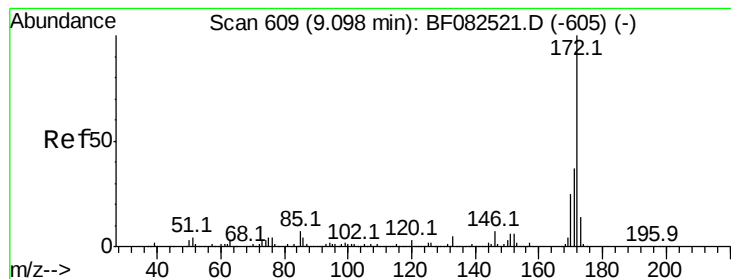


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 54.68 ng

RT: 9.10 min Scan# 609

Delta R.T. 0.00 min

Lab File: BF082539.D

Acq: 27 Oct 2015 8:57

Instrument :

BNA\_F

ClientSampleId :

SB15-08-15.5-16RE

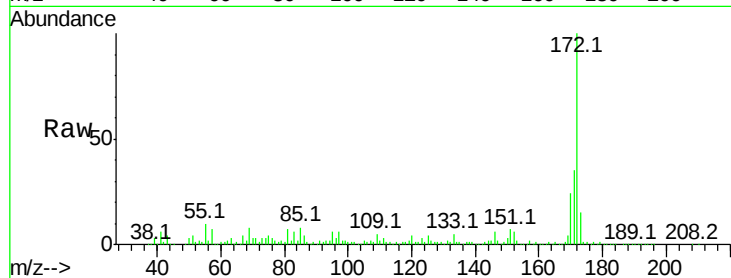
Tot Ion:172 Resp: 436986

Ion Ratio Lower Upper

172 100

171 35.5 29.3 43.9

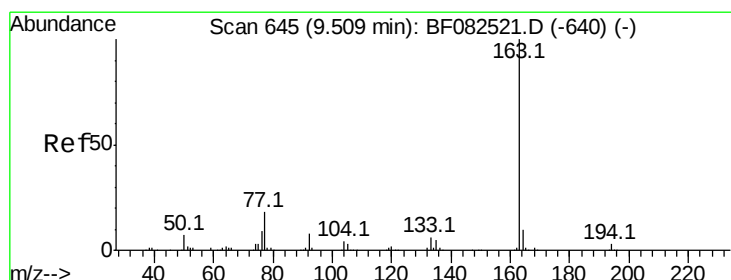
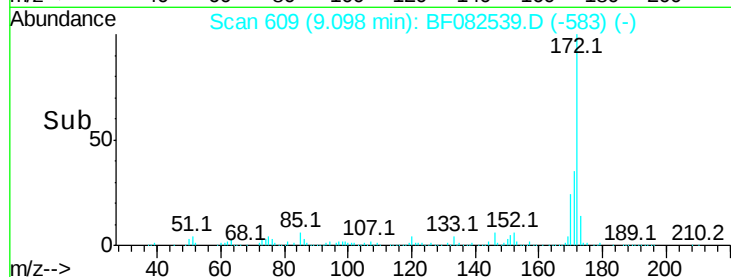
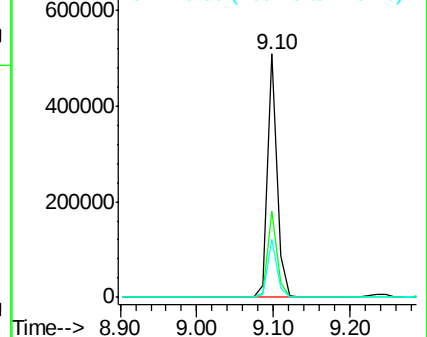
170 24.0 19.8 29.6



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49

Dimethylphthalate

Concen: 14.48 ng

RT: 9.50 min Scan# 644

Delta R.T. -0.01 min

Lab File: BF082539.D

Acq: 27 Oct 2015 8:57

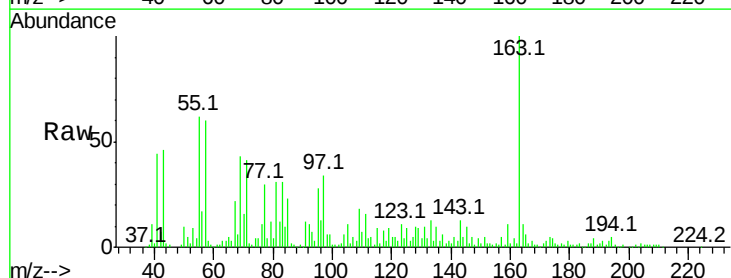
Tgt Ion:163 Resp: 128060

Ion Ratio Lower Upper

163 100

194 4.7 2.8 4.2#

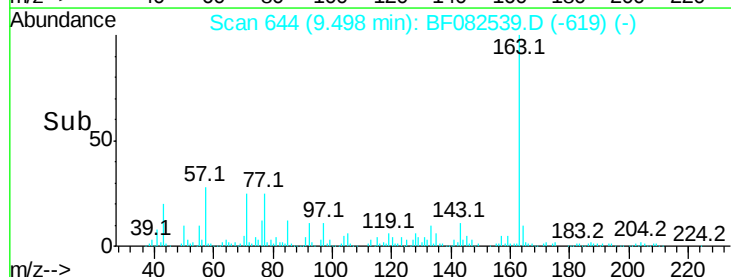
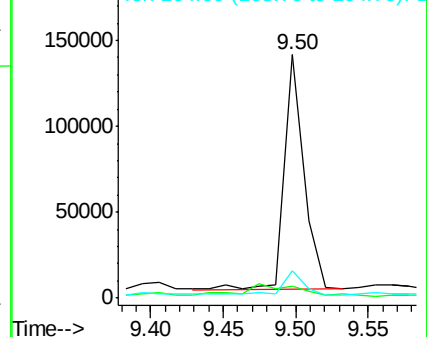
164 11.1 8.2 12.4

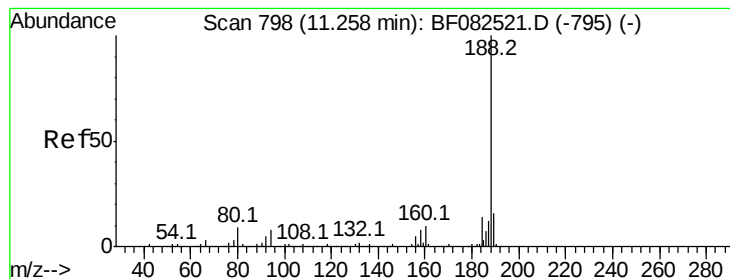


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.28 min Scan# 800

Delta R.T. 0.02 min

Lab File: BF082539.D

Acq: 27 Oct 2015 8:57

Instrument :

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ClientSampleId :

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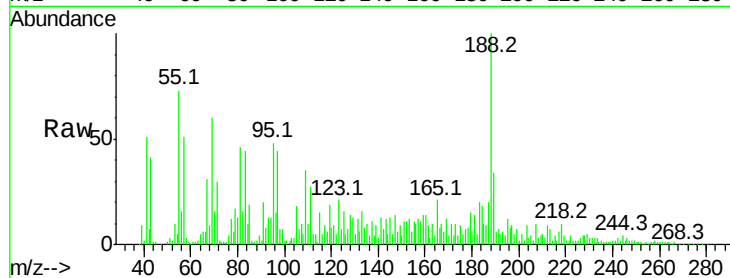
Tot Ion:188 Resp: 212331

Ion Ratio Lower Upper

188 100

94 13.3 6.4 9.6#

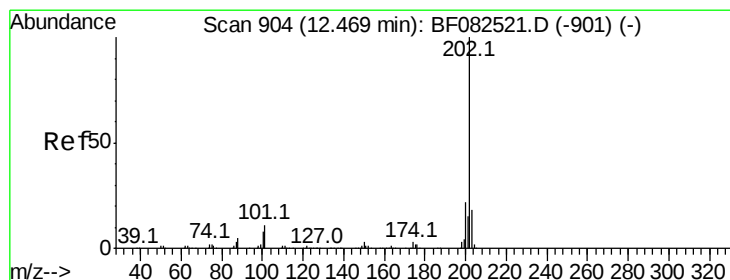
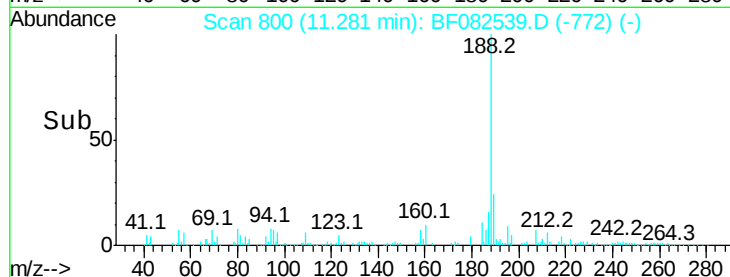
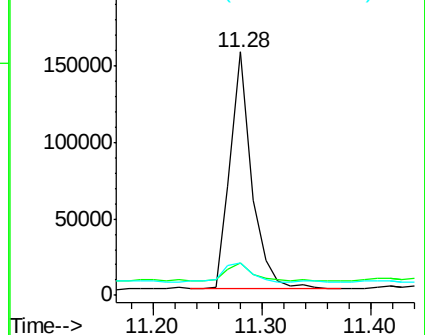
80 13.5 7.0 10.6#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#74

Fluoranthene

Concen: 13.77 ng

RT: 12.50 min Scan# 907

Delta R.T. 0.03 min

Lab File: BF082539.D

Acq: 27 Oct 2015 8:57

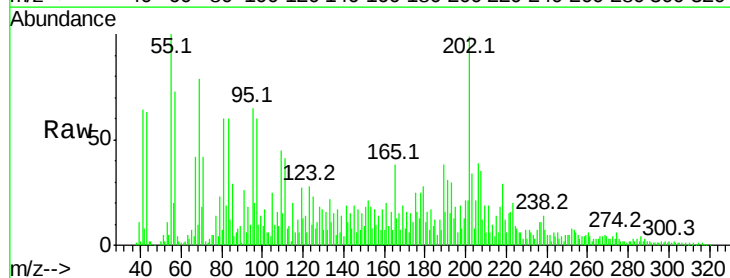
Tgt Ion:202 Resp: 154429

Ion Ratio Lower Upper

202 100

101 16.8 0.0 31.2

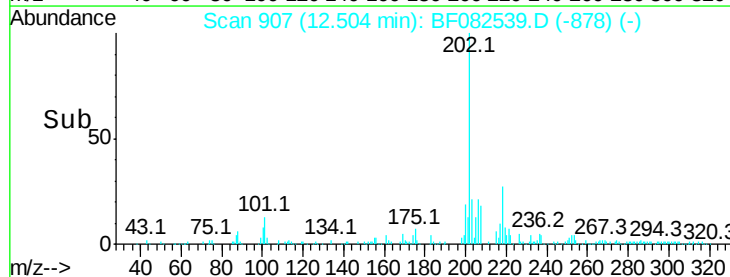
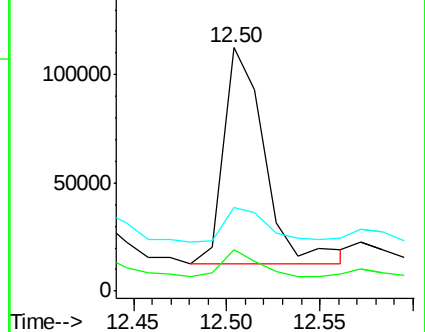
203 34.5 0.0 38.1

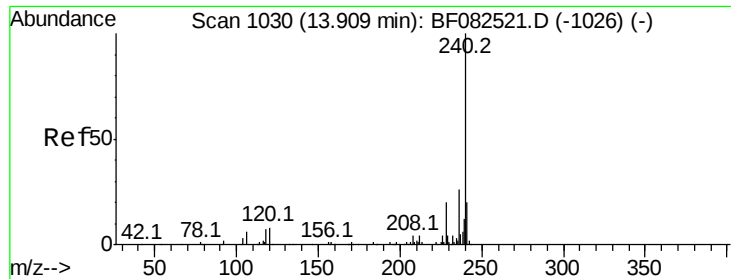


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.97 min Scan# 1035

Delta R.T. 0.06 min

Lab File: BF082539.D

Acq: 27 Oct 2015 8:57

Instrument :

BNA\_F

ClientSampleId :

SB15-08-15.5-16RE

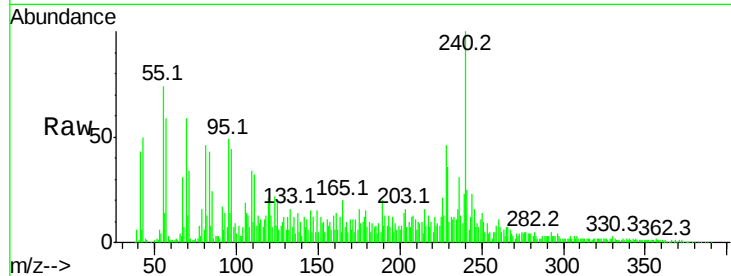
Tot Ion:240 Resp: 198552

Ion Ratio Lower Upper

240 100

120 19.0 6.5 9.7#

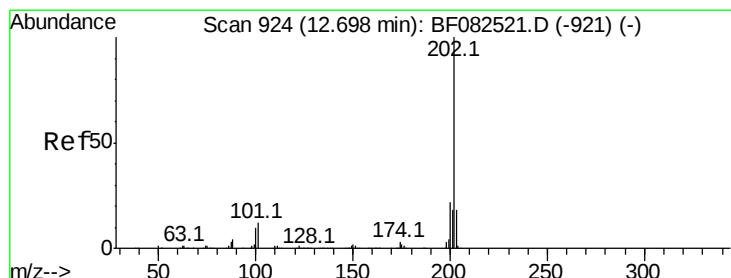
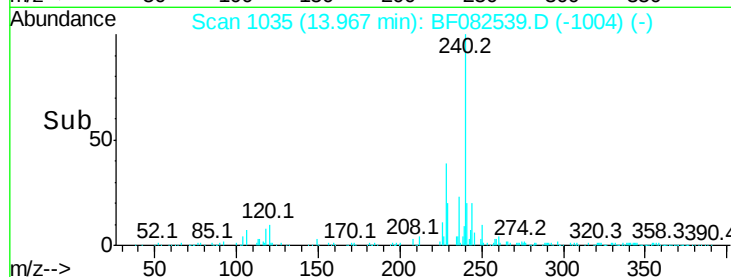
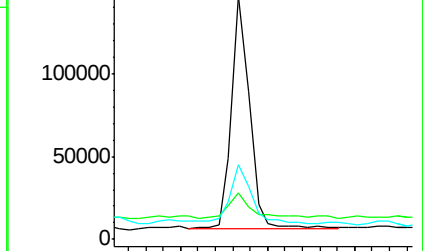
236 30.8 20.5 30.7#



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



#77

Pyrene

Concen: 41.04 ng

RT: 12.74 min Scan# 928

Delta R.T. 0.05 min

Lab File: BF082539.D

Acq: 27 Oct 2015 8:57

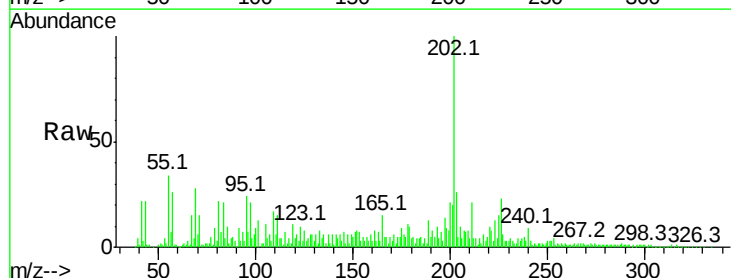
Tgt Ion:202 Resp: 501168

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

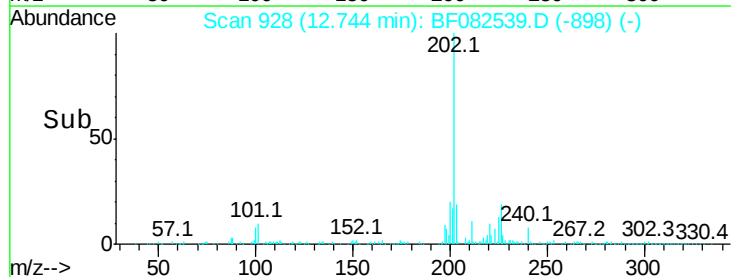
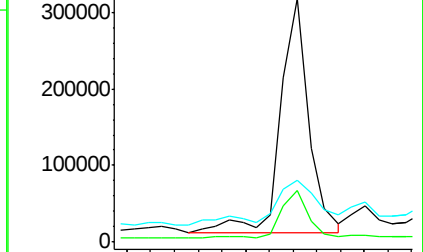
203 25.7 14.6 22.0#

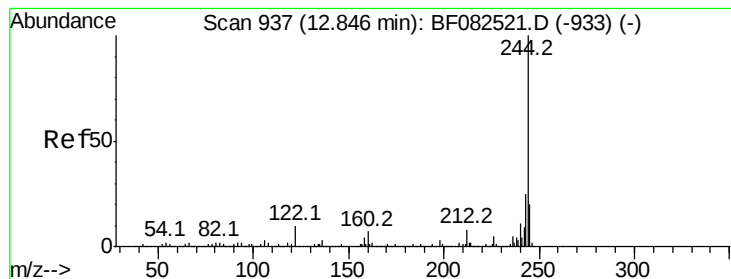


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 47.86 ng

RT: 12.88 min Scan# 940

Delta R.T. 0.03 min

Lab File: BF082539.D

Acq: 27 Oct 2015 8:57

Instrument :

BNA\_F

ClientSampleId :

SB15-08-15.5-16RE

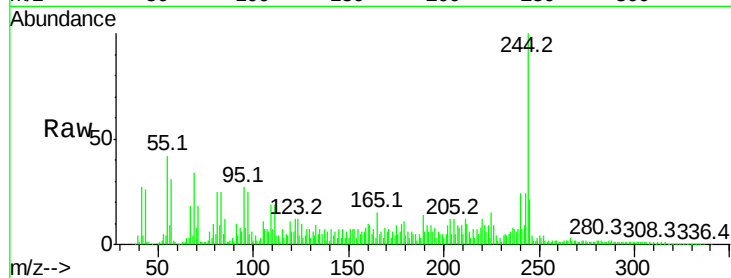
Tot Ion:244 Resp: 329849

Ion Ratio Lower Upper

244 100

212 10.0 6.4 9.6#

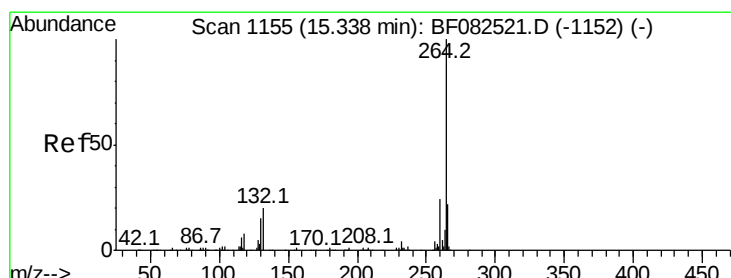
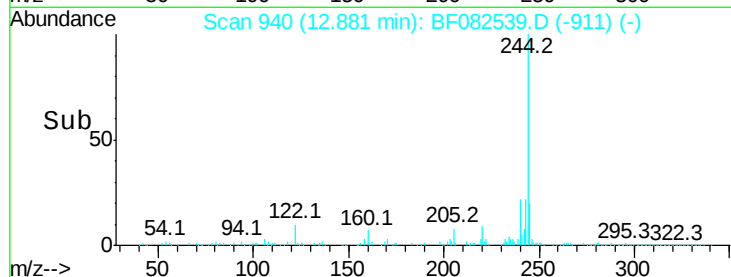
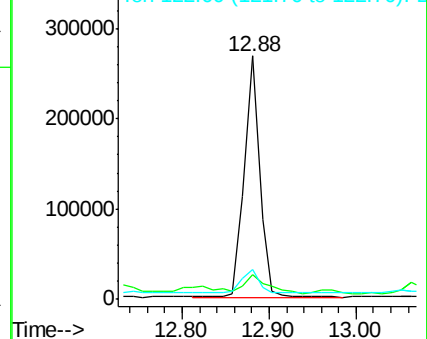
122 12.3 8.1 12.1#



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

RT: 15.46 min Scan# 1166

Delta R.T. 0.13 min

Lab File: BF082539.D

Acq: 27 Oct 2015 8:57

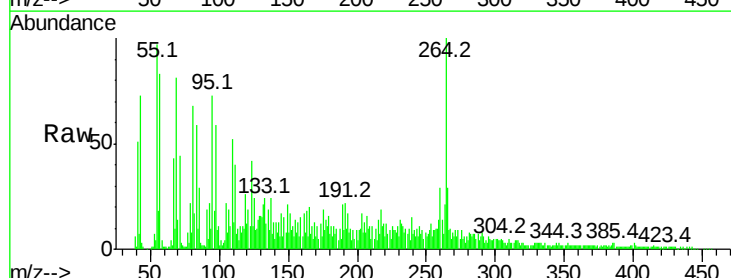
Tgt Ion:264 Resp: 144188

Ion Ratio Lower Upper

264 100

260 29.1 19.0 28.6#

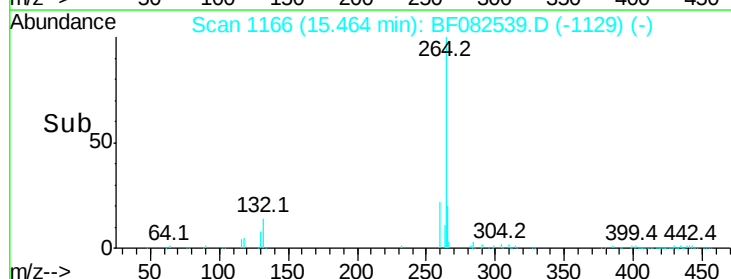
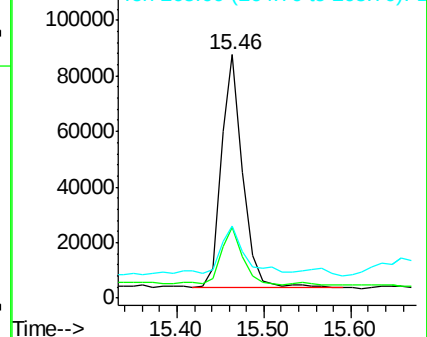
265 29.4 17.8 26.6#

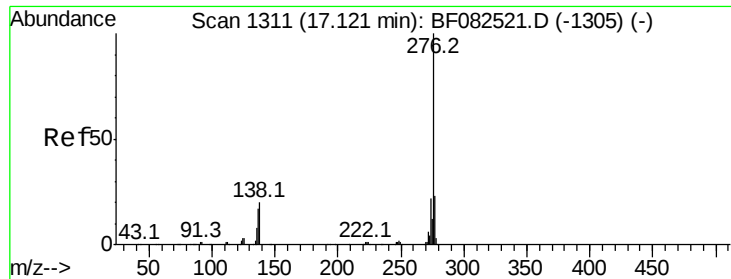


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#91

Benzo(a,h,i)perylene

Concen: 6.71 ng

RT: 17.29 min Scan# 1326

Delta R.T. 0.17 min

Lab File: BF082539.D

Acq: 27 Oct 2015 8:57

Instrument :

BNA\_F

ClientSampleId :

SB15-08-15.5-16RE

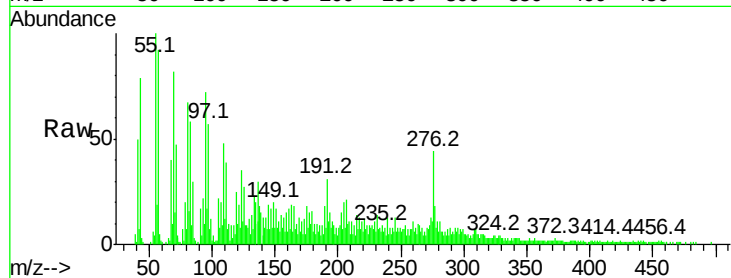
Tot Ion:276 Resp: 41230

Ion Ratio Lower Upper

276 100

277 40.0 18.3 27.5#

138 41.6 16.0 24.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

