

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122316\  
 Data File : BF091932.D  
 Acq On : 23 Dec 2016 19:06  
 Operator : UM/SJ  
 Sample : H6238-13  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PIT-003-COMP

Quant Time: Dec 23 23:00:24 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 21 16:17:51 2016  
 Response via : Initial Calibration

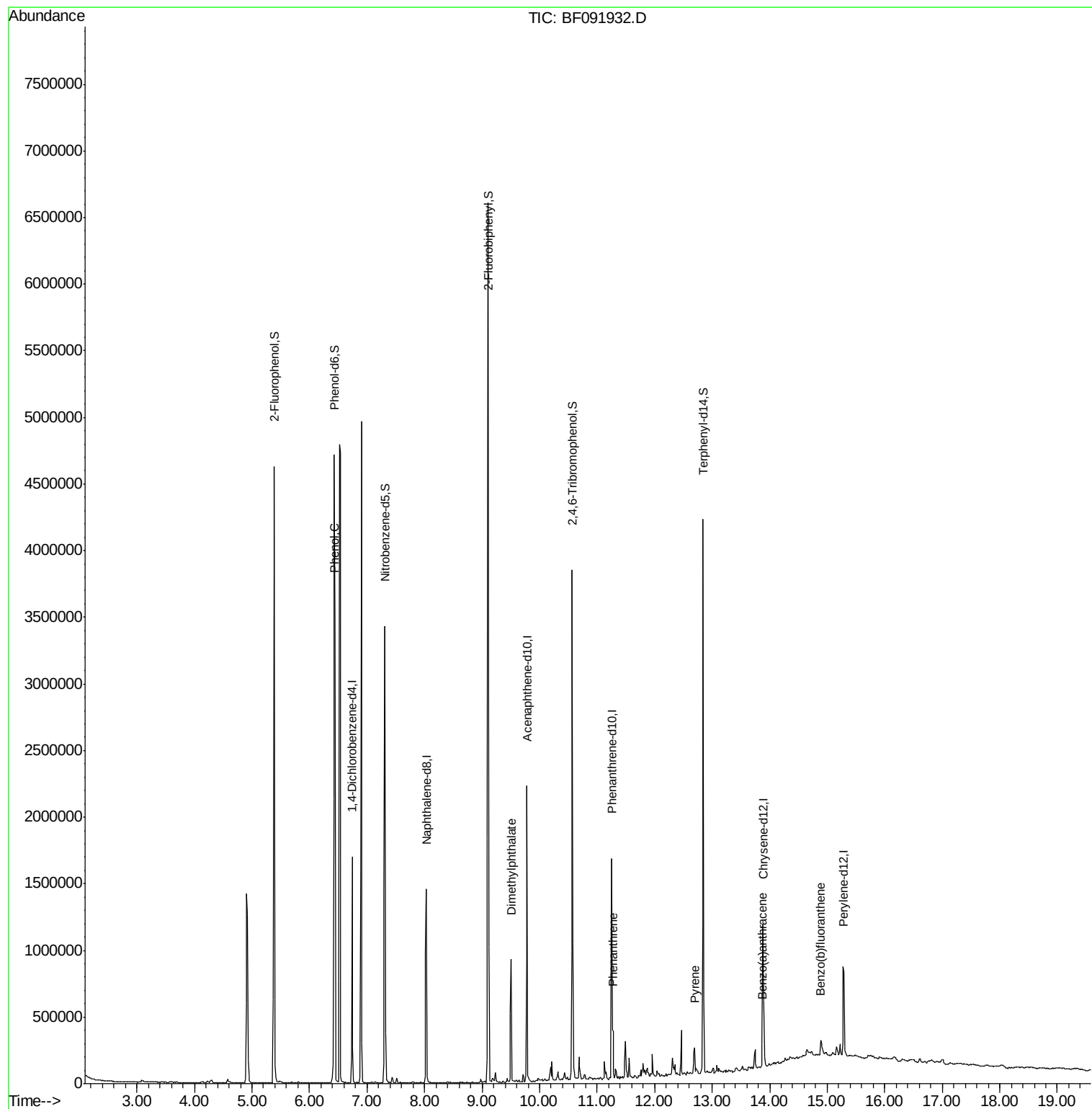
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.74  | 152  | 246517   | 20.00  | ng    | -0.01       |
| 21) Naphthalene-d8          | 8.03  | 136  | 882505   | 20.00  | ng    | -0.01       |
| 38) Acenaphthene-d10        | 9.78  | 164  | 524585   | 20.00  | ng    | -0.01       |
| 63) Phenanthrene-d10        | 11.25 | 188  | 591561   | 20.00  | ng    | -0.01       |
| 75) Chrysene-d12            | 13.88 | 240  | 397791   | 20.00  | ng    | -0.02       |
| 86) Perylene-d12            | 15.29 | 264  | 391527   | 20.00  | ng    | -0.01       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.39  | 112  | 1809122  | 122.54 | ng    | 0.05        |
| 7) Phenol-d6                | 6.43  | 99   | 2521970  | 139.91 | ng    | 0.02        |
| 23) Nitrobenzene-d5         | 7.31  | 82   | 1316959  | 82.98  | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol    | 10.57 | 330  | 509835   | 117.44 | ng    | -0.01       |
| 44) 2-Fluorobiphenyl        | 9.10  | 172  | 2169235  | 84.68  | ng    | -0.01       |
| 78) Terphenyl-d14           | 12.84 | 244  | 1306320  | 79.64  | ng    | -0.01       |
| Target Compounds            |       |      |          |        |       |             |
| 10) Phenol                  | 6.44  | 94   | 104682   | 5.10   | ng    | Qvalue # 77 |
| 49) Dimethylphthalate       | 9.50  | 163  | 473618   | 14.12  | ng    | 99          |
| 70) Phenanthrene            | 11.28 | 178  | 123311   | 3.84   | ng    | 98          |
| 77) Pyrene                  | 12.69 | 202  | 106516   | 3.65   | ng    | 96          |
| 80) Benzo(a)anthracene      | 13.87 | 228  | 58551    | 2.61   | ng    | 98          |
| 87) Benzo(b)fluoranthene    | 14.89 | 252  | 53509m   | 2.20   | ng    |             |

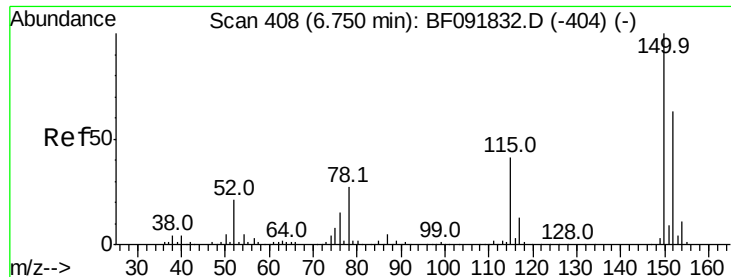
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.74 min Scan# 407

Delta R.T. -0.01 min

Lab File: BF091932.D

Acq: 23 Dec 2016 19:06

Instrument :

BNA\_F

ClientSampleId :

PIT-003-COMP

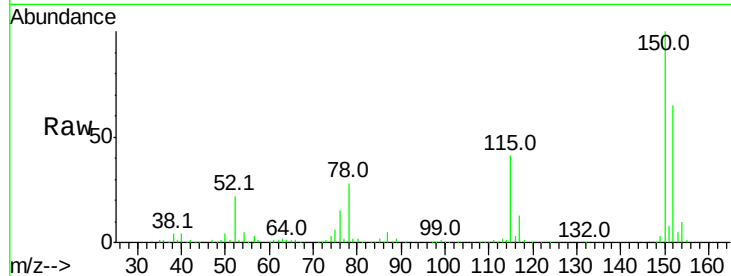
Tot Ion:152 Resp: 246517

Ion Ratio Lower Upper

152 100

150 154.3 124.9 187.3

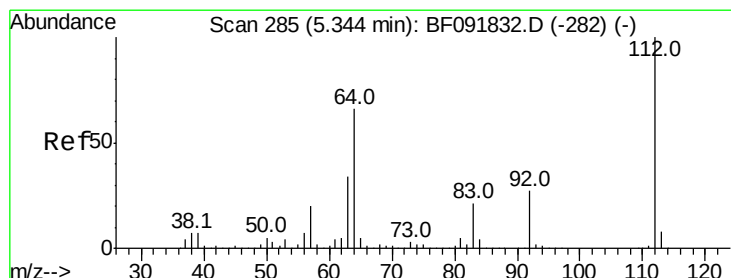
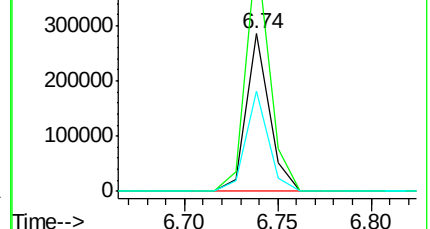
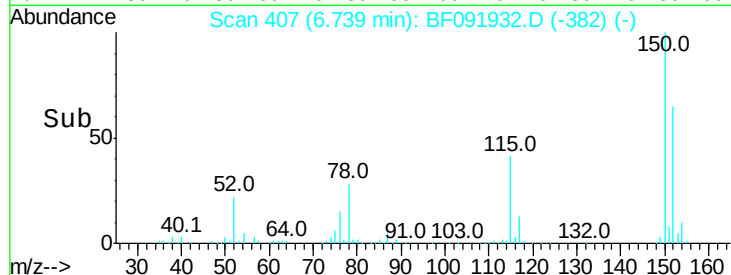
115 63.3 46.0 69.0



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: 122.54 ng

RT: 5.39 min Scan# 289

Delta R.T. 0.05 min

Lab File: BF091932.D

Acq: 23 Dec 2016 19:06

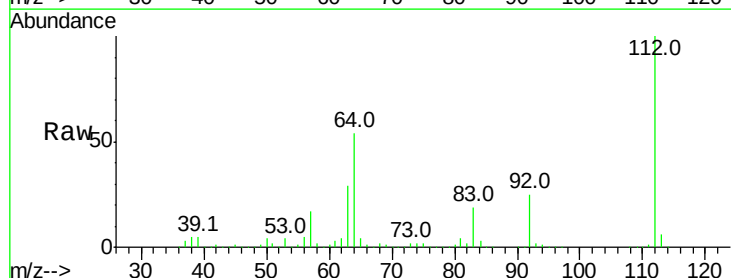
Tgt Ion:112 Resp: 1809122

Ion Ratio Lower Upper

112 100

64 54.2 46.1 69.1

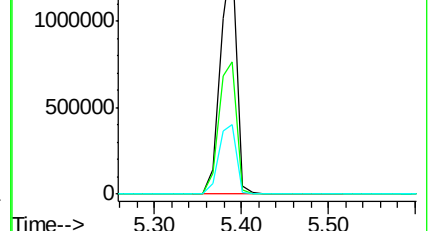
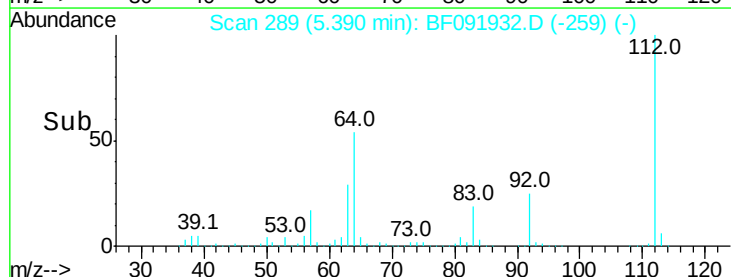
63 28.8 23.8 35.6

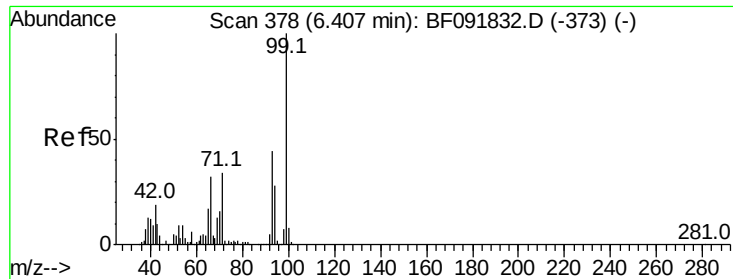


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 139.91 ng

RT: 6.43 min Scan# 380

Delta R.T. 0.02 min

Lab File: BF091932.D

Acq: 23 Dec 2016 19:06

Instrument :

BNA\_F

ClientSampleId :

PIT-003-COMP

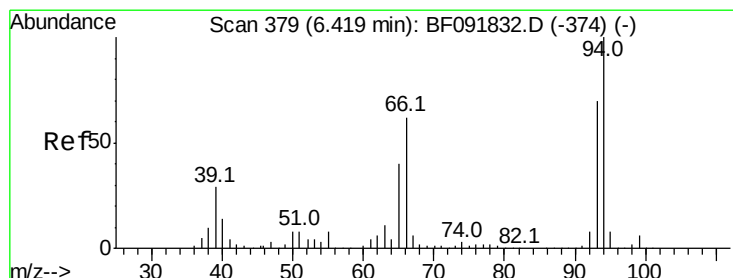
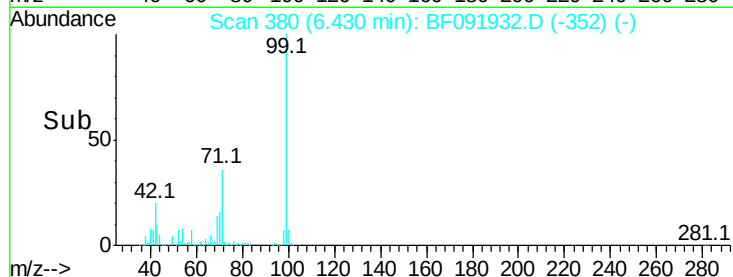
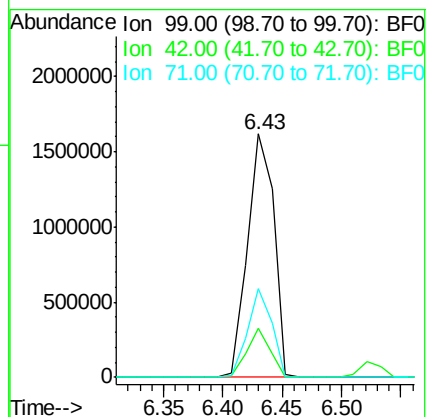
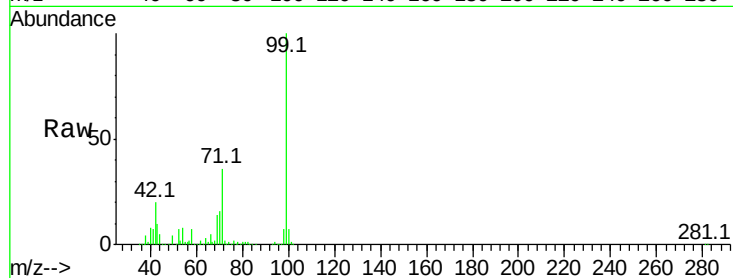
Tot Ion: 99 Resp: 2521970

Ion Ratio Lower Upper

99 100

42 20.1 15.6 23.4

71 36.2 27.5 41.3



#10

Phenol

Concen: 5.10 ng

RT: 6.44 min Scan# 381

Delta R.T. 0.02 min

Lab File: BF091932.D

Acq: 23 Dec 2016 19:06

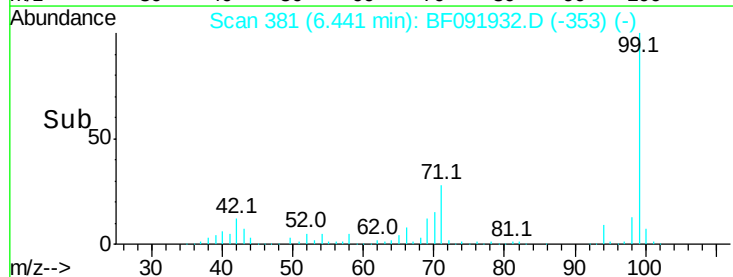
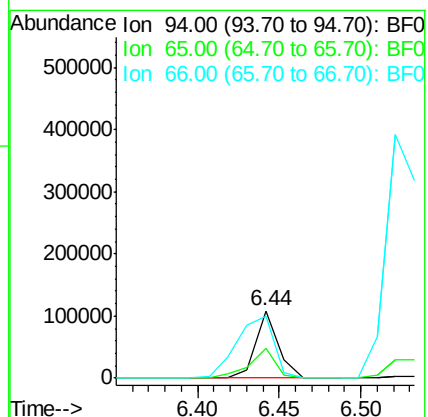
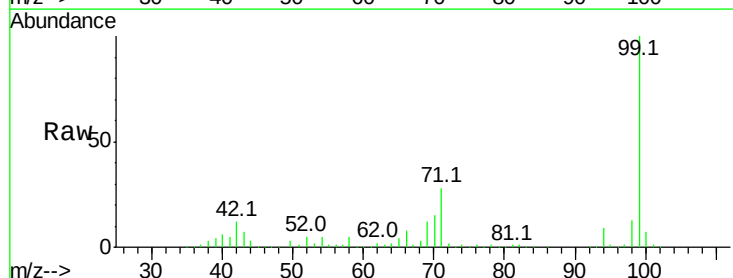
Tgt Ion: 94 Resp: 104682

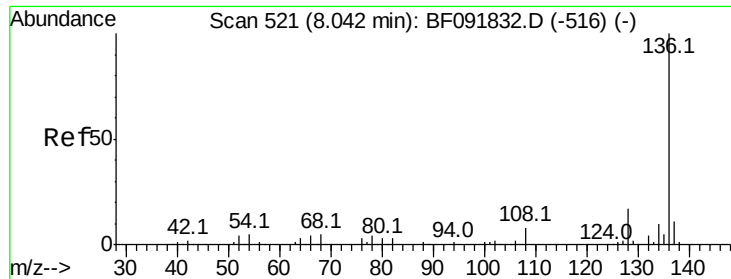
Ion Ratio Lower Upper

94 100

65 43.9 21.4 61.4

66 91.4 44.0 84.0#

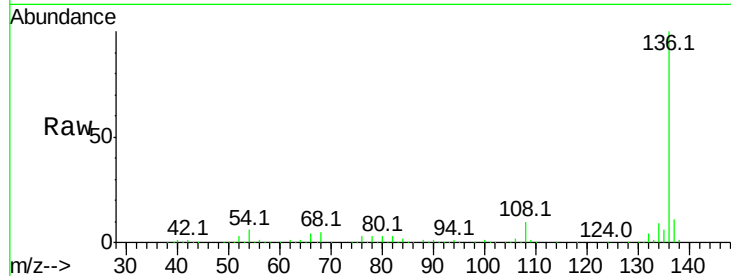




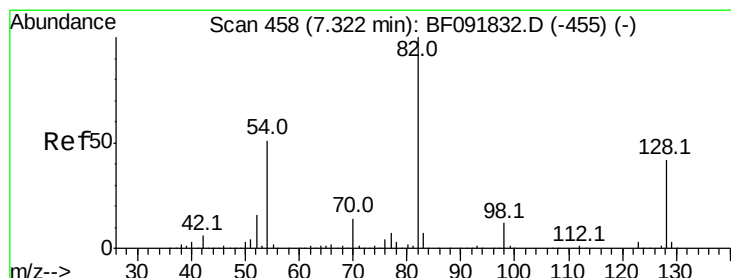
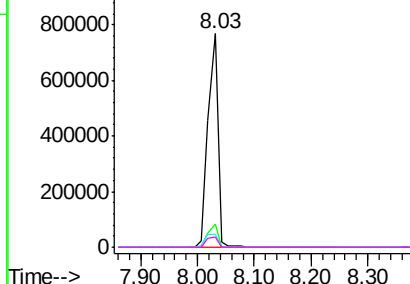
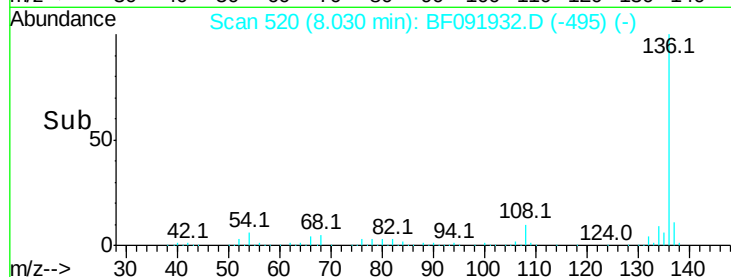
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.03 min Scan# 520  
Delta R.T. -0.01 min  
Lab File: BF091932.D  
Acq: 23 Dec 2016 19:06

Instrument :  
BNA\_F  
ClientSampleId :  
PIT-003-COMP

|             |       |        |  |
|-------------|-------|--------|--|
| Tot Ion:136 | Resp: | 882505 |  |
| Ion Ratio   | Lower | Upper  |  |
| 136 100     |       |        |  |
| 137 10.8    | 8.4   | 12.6   |  |
| 54 5.9      | 4.5   | 6.7    |  |
| 68 4.7      | 3.6   | 5.4    |  |

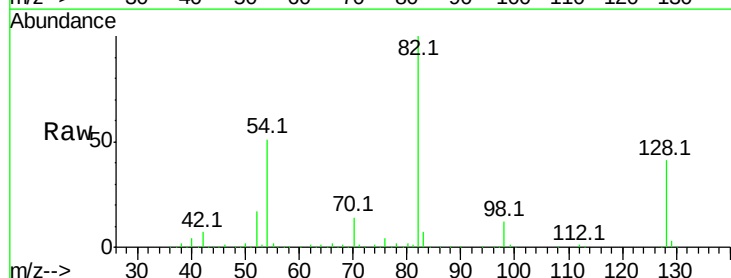


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

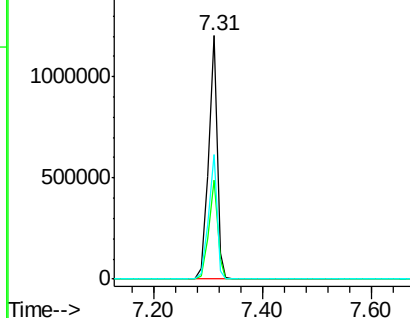
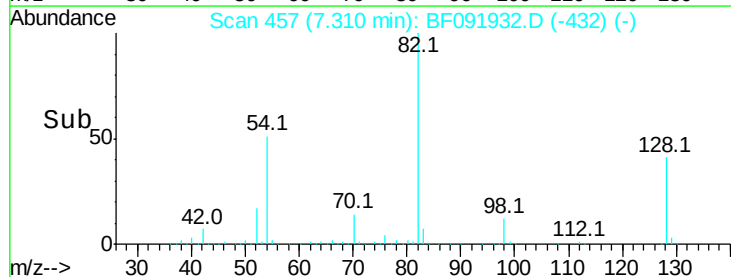


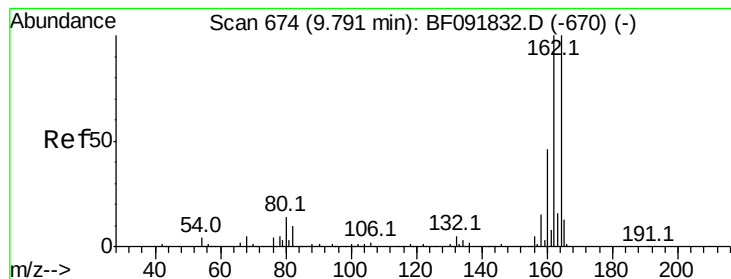
#23  
Nitrobenzene-d5  
Concen: 82.98 ng  
RT: 7.31 min Scan# 457  
Delta R.T. -0.01 min  
Lab File: BF091932.D  
Acq: 23 Dec 2016 19:06

|             |               |
|-------------|---------------|
| Tgt Ion: 82 | Resp: 1316959 |
| Ion Ratio   | Lower Upper   |
| 82 100      |               |
| 128 40.6    | 34.6 52.0     |
| 54 51.3     | 39.5 59.3     |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.78 min Scan# 673

Delta R.T. -0.01 min

Lab File: BF091932.D

Acq: 23 Dec 2016 19:06

Instrument :

BNA\_F

ClientSampleId :

PIT-003-COMP

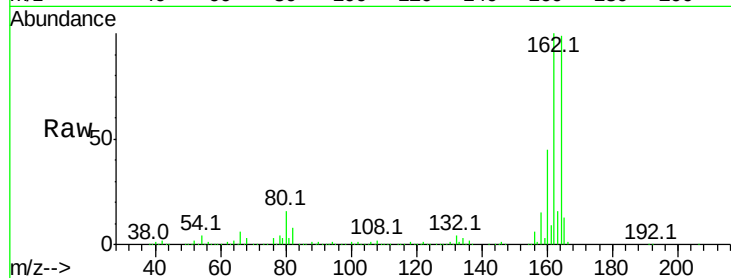
Tot Ion:164 Resp: 524585

Ion Ratio Lower Upper

164 100

162 100.5 80.2 120.2

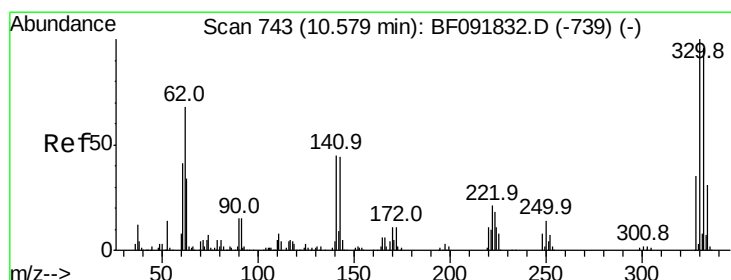
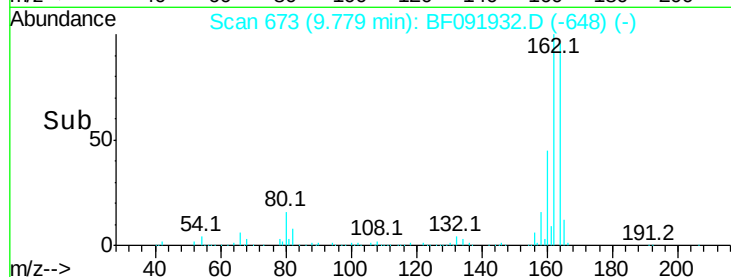
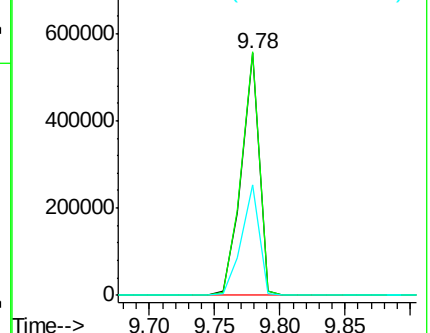
160 45.6 36.9 55.3



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: 117.44 ng

RT: 10.57 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF091932.D

Acq: 23 Dec 2016 19:06

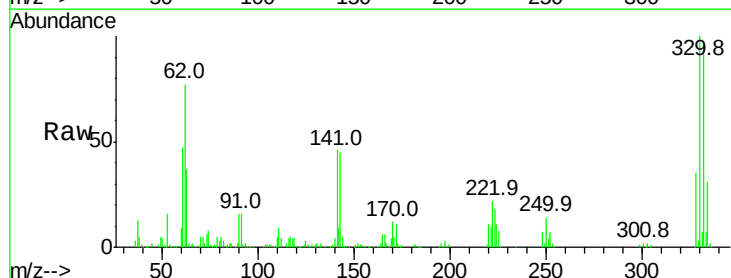
Tgt Ion:330 Resp: 509835

Ion Ratio Lower Upper

330 100

332 96.8 77.4 116.2

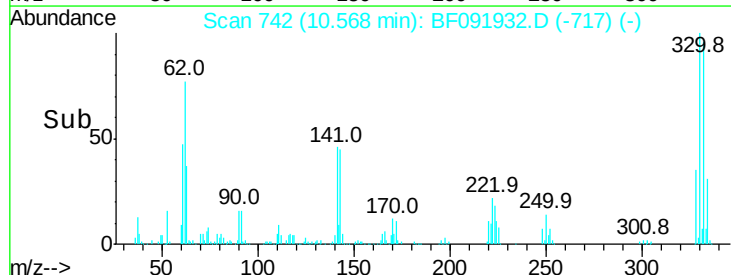
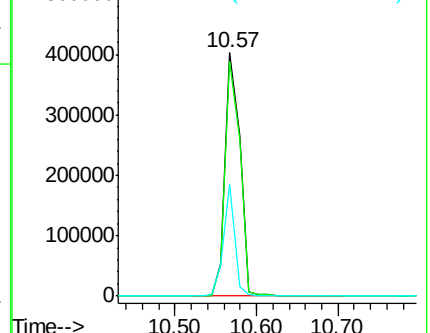
141 35.2 34.1 51.1

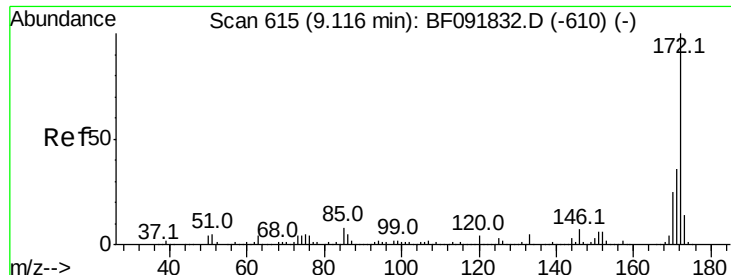


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



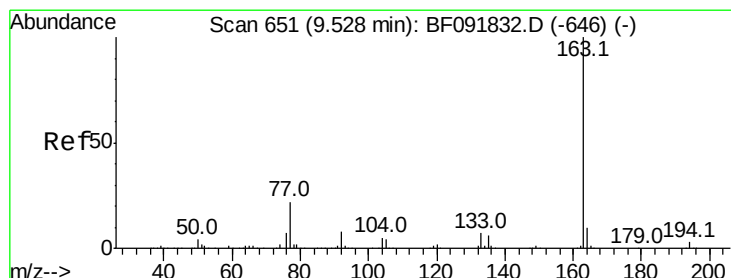
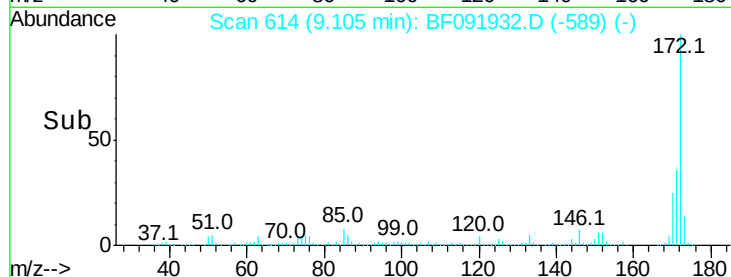
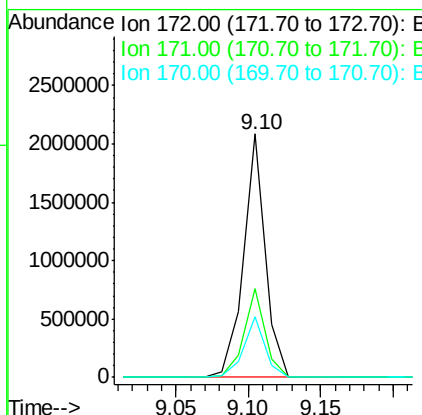
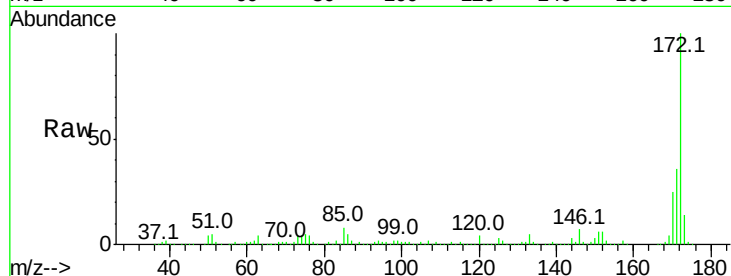


#44  
 2-Fluorobiphenyl  
 Concen: 84.68 ng  
 RT: 9.10 min Scan# 614  
 Delta R.T. -0.01 min  
 Lab File: BF091932.D  
 Acq: 23 Dec 2016 19:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PIT-003-COMP

Tot Ion:172 Resp: 2169235  

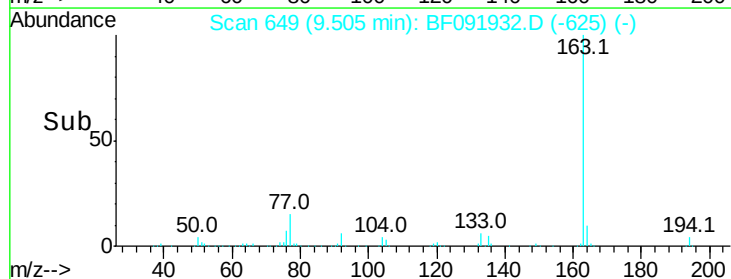
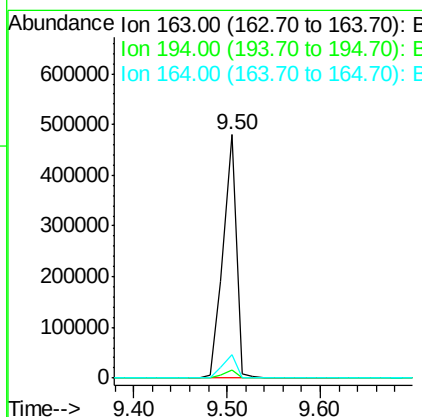
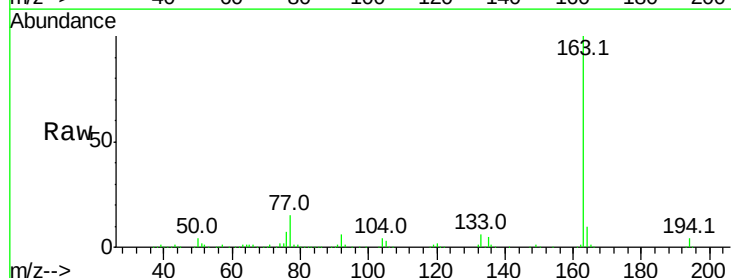
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.5  | 29.4  | 44.0  |
| 170 | 24.8  | 20.2  | 30.4  |

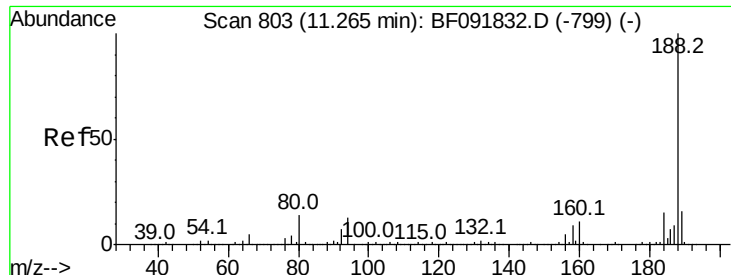


#49  
 Dimethylphthalate  
 Concen: 14.12 ng  
 RT: 9.50 min Scan# 649  
 Delta R.T. -0.02 min  
 Lab File: BF091932.D  
 Acq: 23 Dec 2016 19:06

Tgt Ion:163 Resp: 473618  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 3.5   | 3.0   | 4.4   |
| 164 | 9.8   | 8.0   | 12.0  |

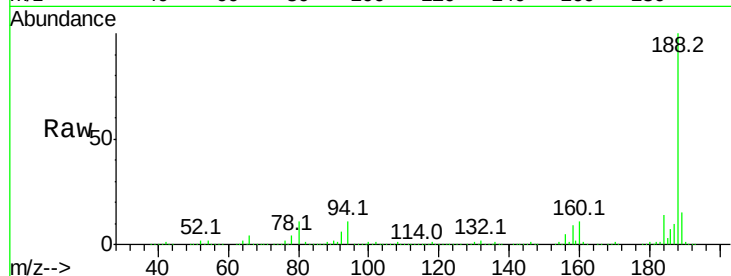




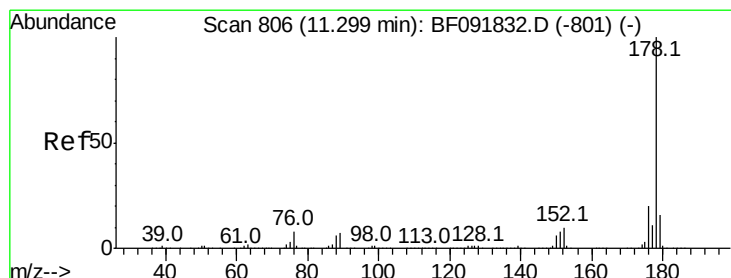
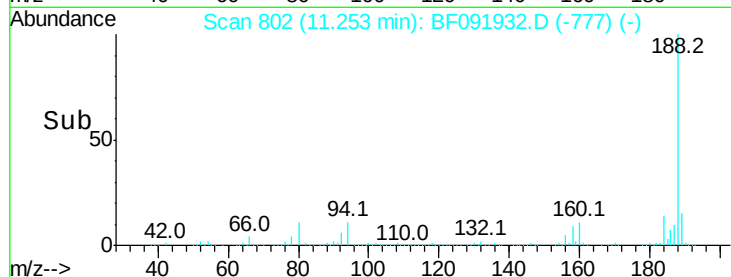
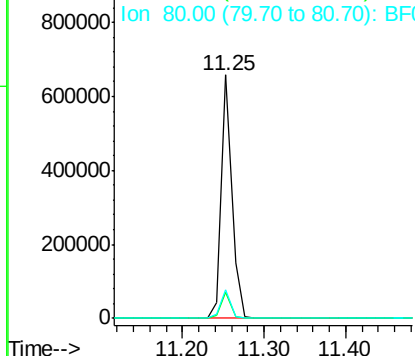
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.25 min Scan# 802  
Delta R.T. -0.01 min  
Lab File: BF091932.D  
Acq: 23 Dec 2016 19:06

Instrument :  
BNA\_F  
ClientSampleId :  
PIT-003-COMP

Tot Ion:188 Resp: 591561  
Ion Ratio Lower Upper  
188 100  
94 10.6 10.0 15.0  
80 11.5 11.2 16.8

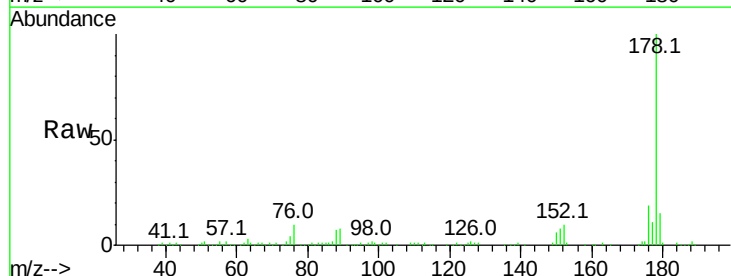


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

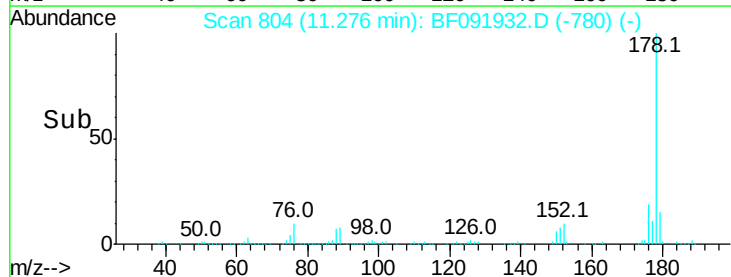
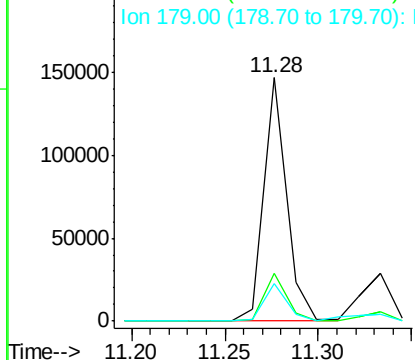


#70  
Phenanthrene  
Concen: 3.84 ng  
RT: 11.28 min Scan# 804  
Delta R.T. -0.02 min  
Lab File: BF091932.D  
Acq: 23 Dec 2016 19:06

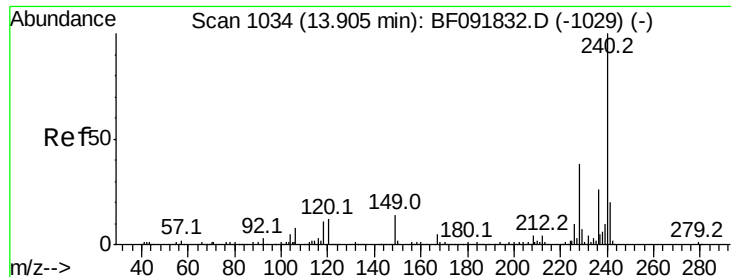
Tgt Ion:178 Resp: 123311  
Ion Ratio Lower Upper  
178 100  
176 19.4 16.6 25.0  
179 15.4 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E







#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.88 min Scan# 1032

Delta R.T. -0.02 min

Lab File: BF091932.D

Acq: 23 Dec 2016 19:06

Instrument :

BNA\_F

ClientSampleId :

PIT-003-COMP

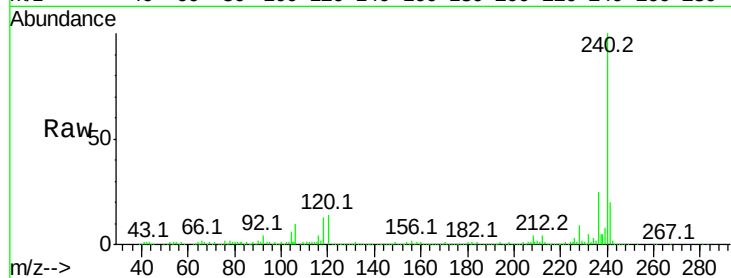
Tot Ion:240 Resp: 397791

Ion Ratio Lower Upper

240 100

120 14.1 12.9 19.3

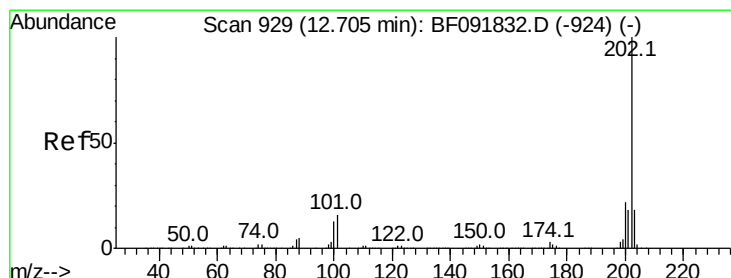
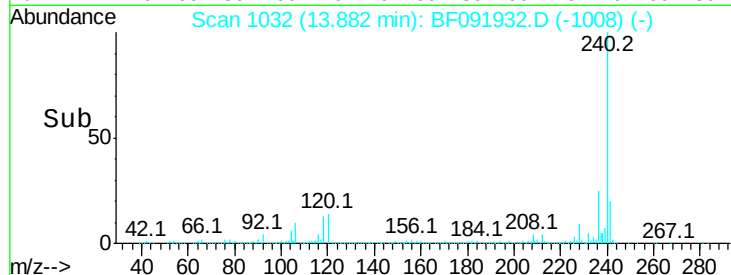
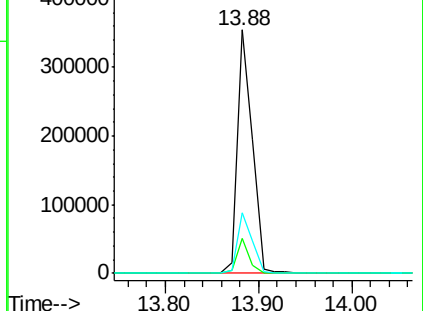
236 25.0 20.9 31.3



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: 3.65 ng

RT: 12.69 min Scan# 928

Delta R.T. -0.01 min

Lab File: BF091932.D

Acq: 23 Dec 2016 19:06

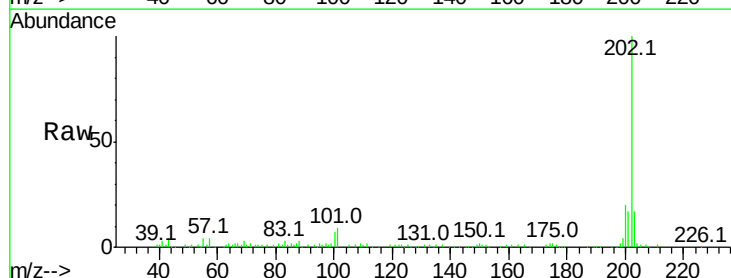
Tgt Ion:202 Resp: 106516

Ion Ratio Lower Upper

202 100

200 20.2 17.7 26.5

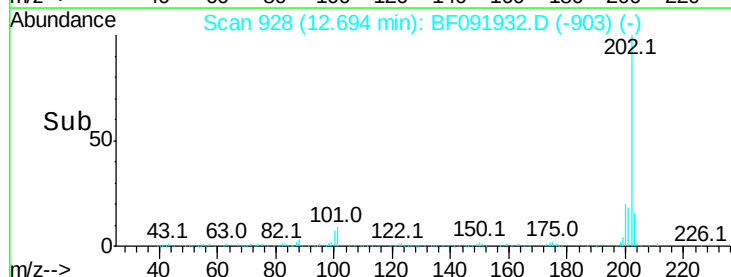
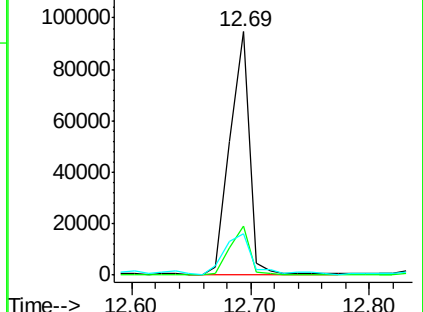
203 17.0 14.7 22.1

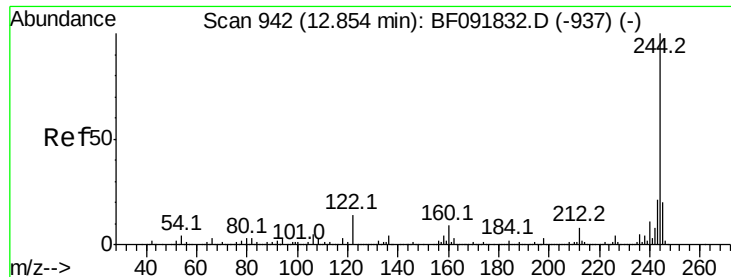


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 79.64 ng

RT: 12.84 min Scan# 941

Delta R.T. -0.01 min

Lab File: BF091932.D

Acq: 23 Dec 2016 19:06

Instrument :

BNA\_F

ClientSampleId :

PIT-003-COMP

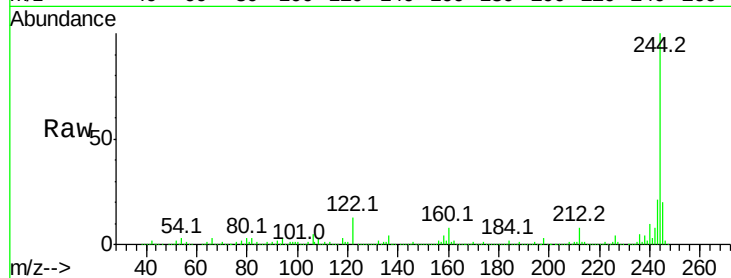
Tot Ion:244 Resp: 1306320

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

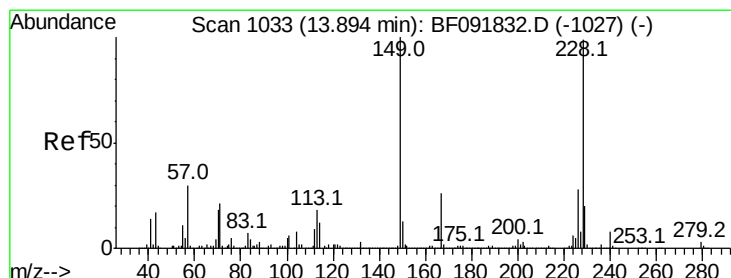
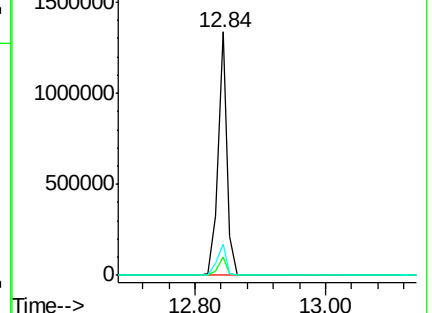
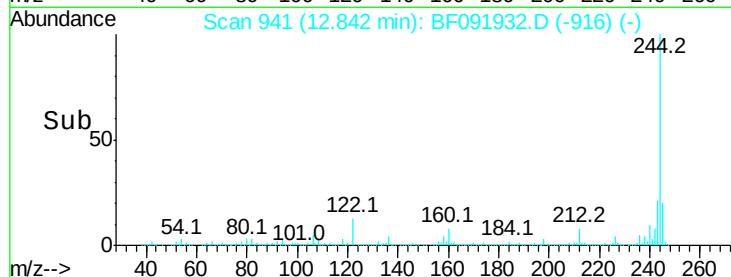
122 13.0 11.4 17.2



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



#80

Benzo(a)anthracene

Concen: 2.61 ng

RT: 13.87 min Scan# 1031

Delta R.T. -0.02 min

Lab File: BF091932.D

Acq: 23 Dec 2016 19:06

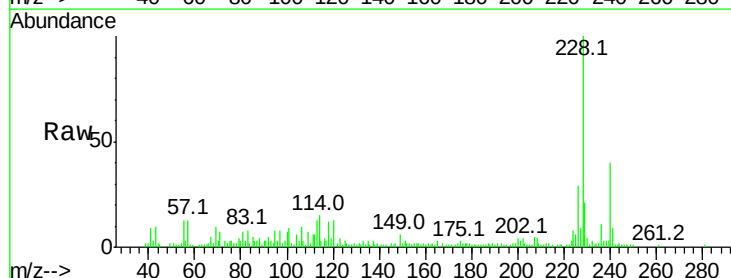
Tgt Ion:228 Resp: 58551

Ion Ratio Lower Upper

228 100

226 29.2 22.4 33.6

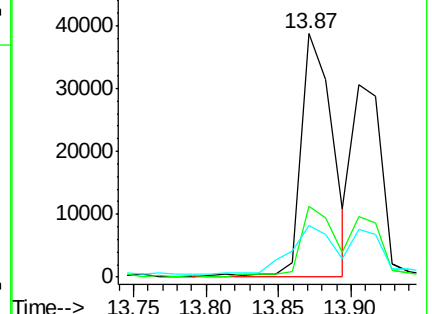
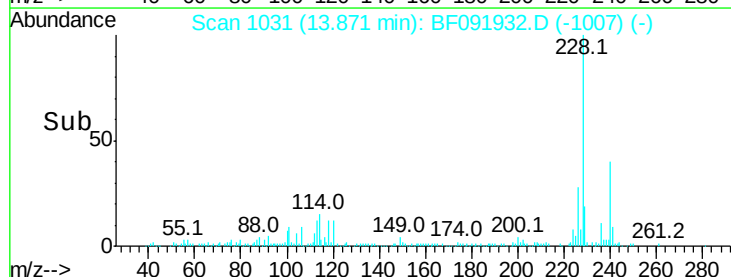
229 21.0 16.2 24.4

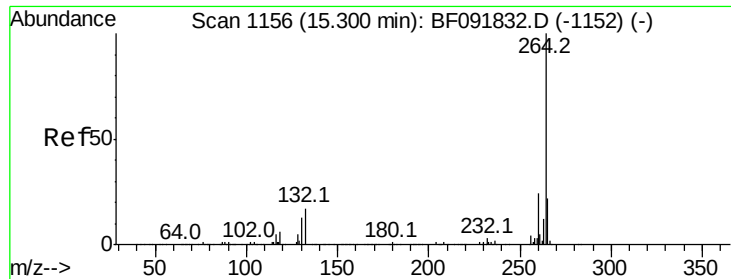


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

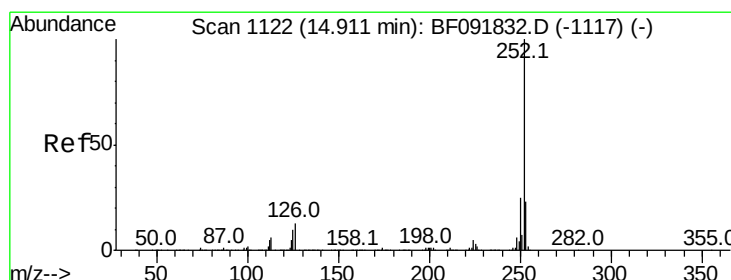
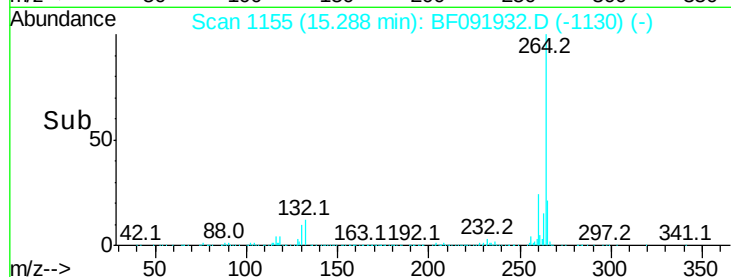
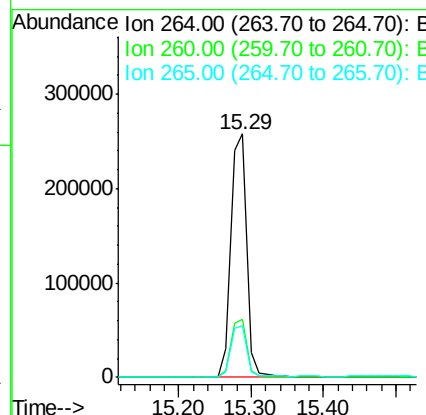
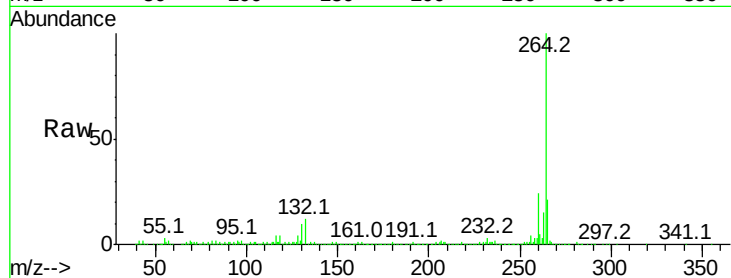




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.29 min Scan# 1155  
Delta R.T. -0.01 min  
Lab File: BF091932.D  
Acq: 23 Dec 2016 19:06

Instrument :  
BNA\_F  
ClientSampleId :  
PIT-003-COMP

Tot Ion:264 Resp: 391527  
Ion Ratio Lower Upper  
264 100  
260 24.0 19.2 28.8  
265 21.4 17.4 26.0



#87  
Benzo(b)fluoranthene  
Concen: 2.20 ng m  
RT: 14.89 min Scan# 1120  
Delta R.T. -0.02 min  
Lab File: BF091932.D  
Acq: 23 Dec 2016 19:06

Tgt Ion:252 Resp: 53509  
Ion Ratio Lower Upper  
252 100  
253 23.3 18.2 27.4  
125 17.1 9.8 14.6#

