

Data Path : Z:\HPCHEM1\BNA F\DATA\BF090217\  
 Data File : BF098265.D  
 Acq On : 3 Sep 2017 00:16  
 Operator : SJ/JU  
 Sample : I5073-08 5X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 04 07:30:00 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 21 15:59:04 2017  
 Response via : Initial Calibration

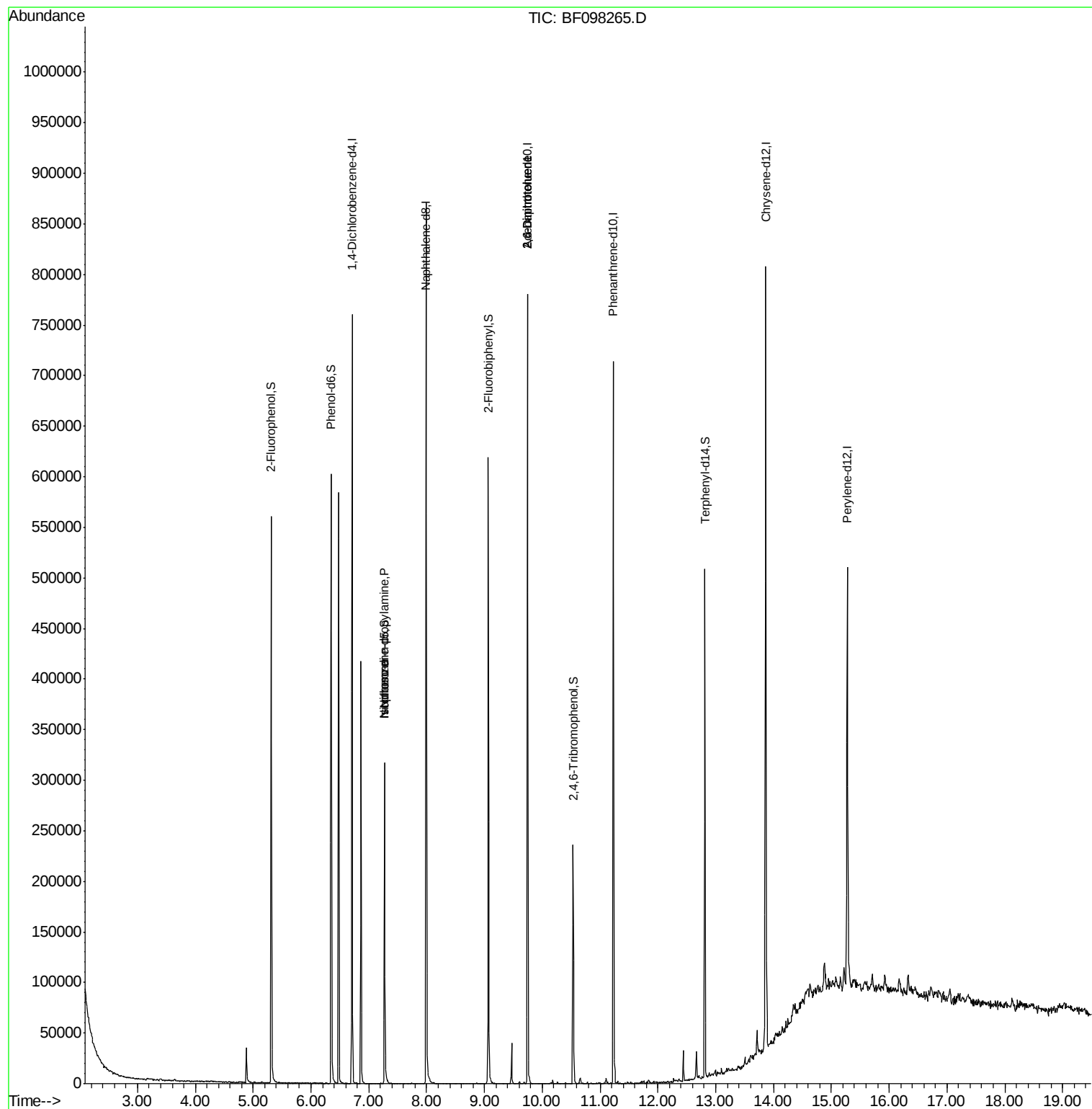
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.71  | 152  | 100032   | 20.00 | ng    | -0.04    |
| 21) Naphthalene-d8             | 7.99  | 136  | 366431   | 20.00 | ng    | -0.04    |
| 38) Acenaphthene-d10           | 9.75  | 164  | 138551   | 20.00 | ng    | -0.04    |
| 63) Phenanthrene-d10           | 11.23 | 188  | 239927   | 20.00 | ng    | -0.04    |
| 75) Chrysene-d12               | 13.86 | 240  | 229624   | 20.00 | ng    | -0.04    |
| 86) Perylene-d12               | 15.28 | 264  | 179779   | 20.00 | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.31  | 112  | 155485   | 23.64 | ng    | -0.04    |
| 7) Phenol-d6                   | 6.35  | 99   | 210102   | 23.51 | ng    | -0.04    |
| 23) Nitrobenzene-d5            | 7.27  | 82   | 114709   | 17.01 | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 10.53 | 330  | 24428    | 20.32 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl           | 9.07  | 172  | 178385   | 18.92 | ng    | -0.04    |
| 78) Terphenyl-d14              | 12.81 | 244  | 133201   | 12.10 | ng    | -0.04    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.27  | 70   | 13817    | 2.259 | ng    | # 72     |
| 25) Isophorone                 | 7.27  | 82   | 114149   | 8.139 | ng    | # 67     |
| 50) 2,6-Dinitrotoluene         | 9.75  | 165  | 17631    | 8.721 | ng    | # 33     |
| 56) 2,4-Dinitrotoluene         | 9.75  | 165  | 17631    | 6.950 | ng    | # 32     |

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 21 15:59:04 2017  
Response via : Initial Calibration



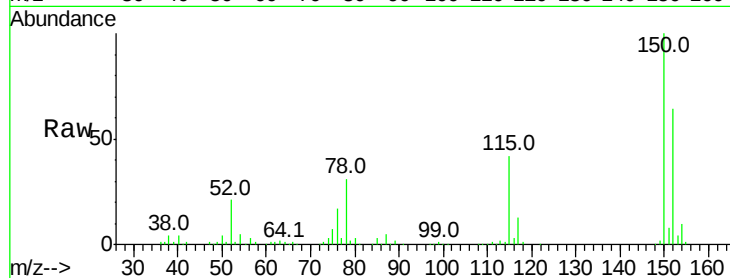


#1

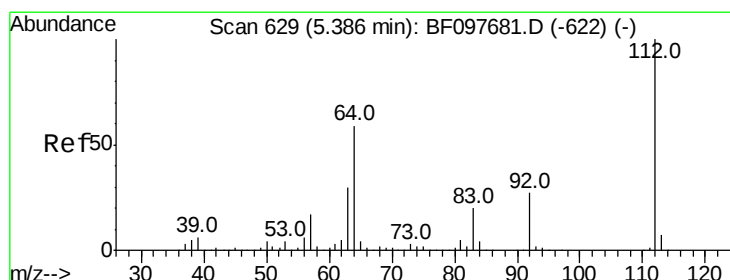
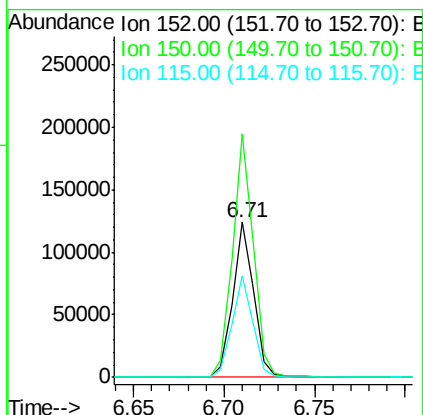
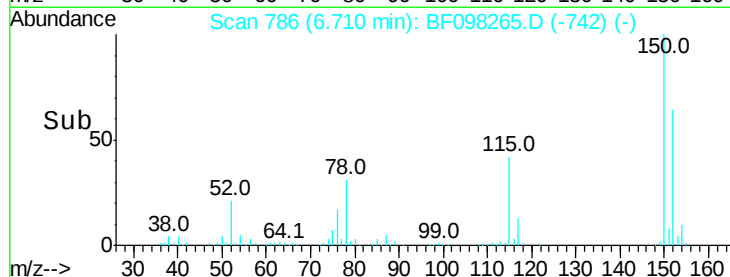
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.71 min Scan# 786  
 Delta R.T. -0.04 min  
 Lab File: BF098265.D  
 Acq: 3 Sep 2017 00:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 100032  
 Ion Ratio Lower Upper  
 152 100  
 150 156.9 126.2 189.2  
 115 65.5 52.2 78.2



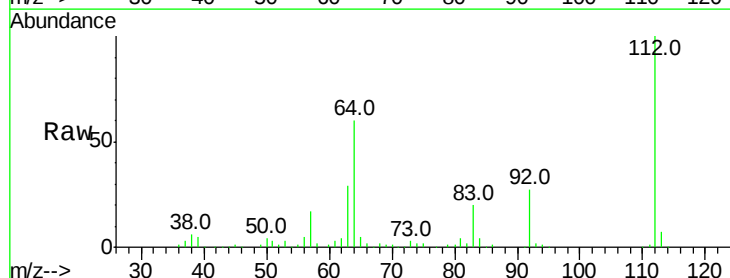
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



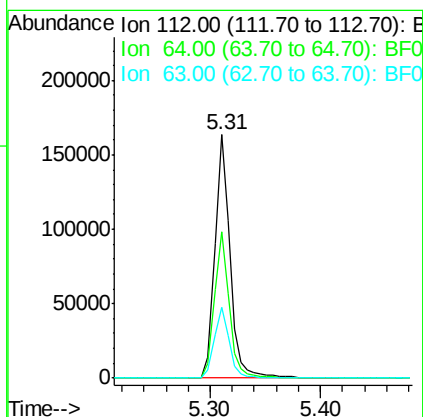
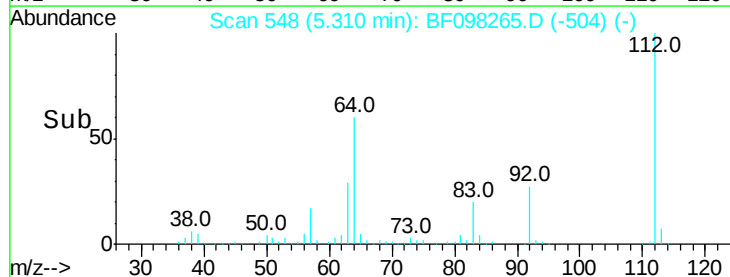
#5

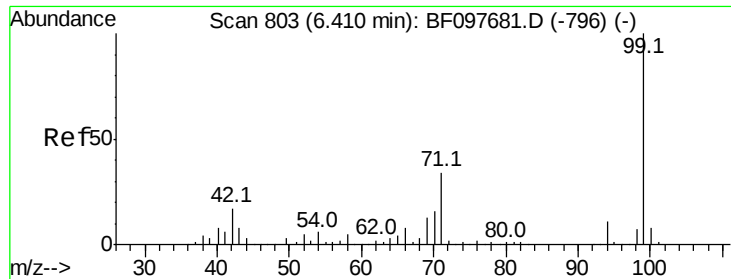
2-Fluorophenol  
 Concen: 23.643 ng  
 RT: 5.31 min Scan# 548  
 Delta R.T. -0.04 min  
 Lab File: BF098265.D  
 Acq: 3 Sep 2017 00:16

Tgt Ion:112 Resp: 155485  
 Ion Ratio Lower Upper  
 112 100  
 64 60.0 46.0 69.0  
 63 29.3 23.4 35.0



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: 23.513 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.04 min

Lab File: BF098265.D

Acq: 3 Sep 2017 00:16

Instrument :

BNA\_F

ClientSampled :

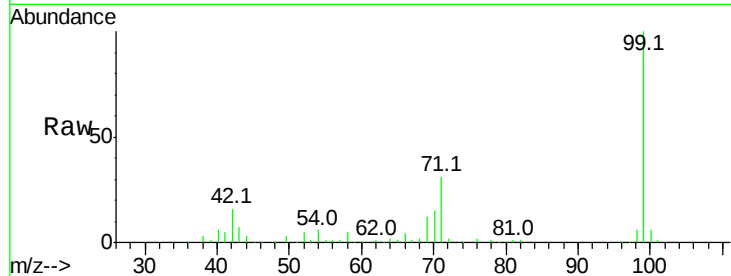
Tot Ion: 99 Resp: 210102

Ion Ratio Lower Upper

99 100

42 15.6 13.5 20.3

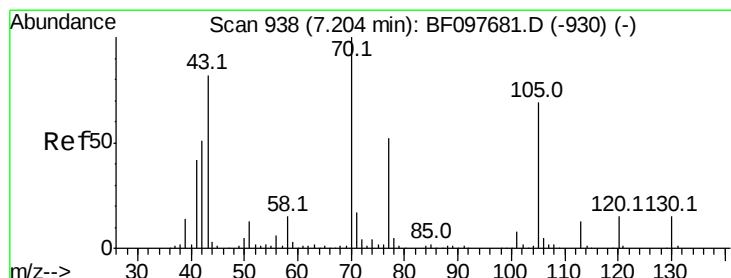
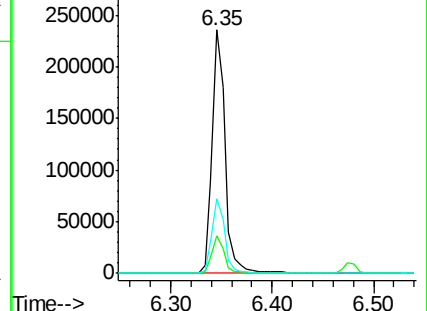
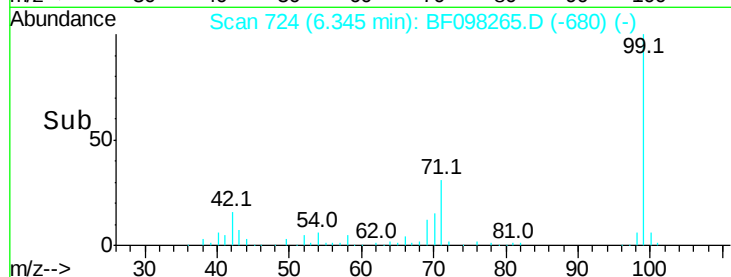
71 30.8 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.259 ng

RT: 7.27 min Scan# 882

Delta R.T. 0.10 min

Lab File: BF098265.D

Acq: 3 Sep 2017 00:16

Tgt Ion: 70 Resp: 13817

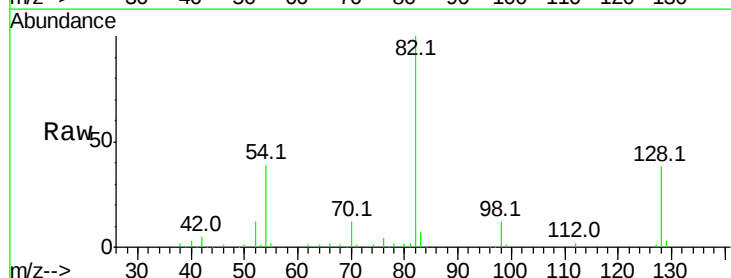
Ion Ratio Lower Upper

70 100

42 41.3 47.2 70.8#

101 0.0 7.2 10.8#

130 0.0 15.9 23.9#

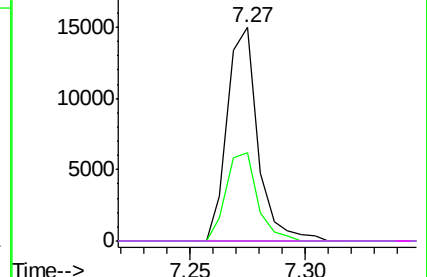
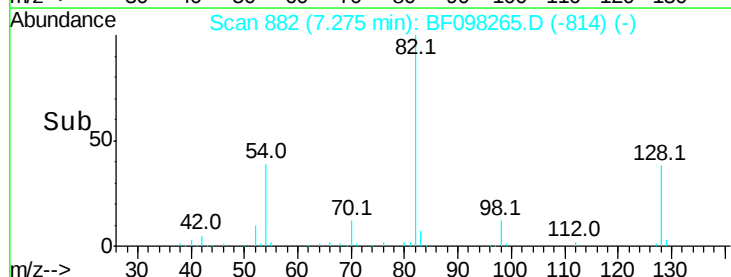


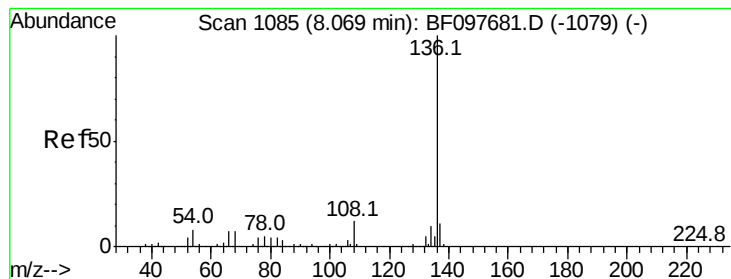
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.99 min Scan# 1004

Delta R.T. -0.04 min

Lab File: BF098265.D

Acq: 3 Sep 2017 00:16

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 366431

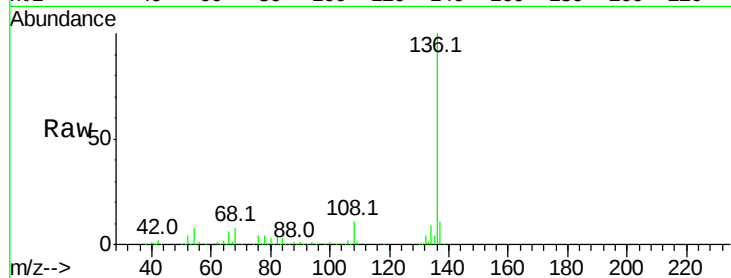
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 7.8 4.9 7.3#

68 7.9 4.1 6.1#

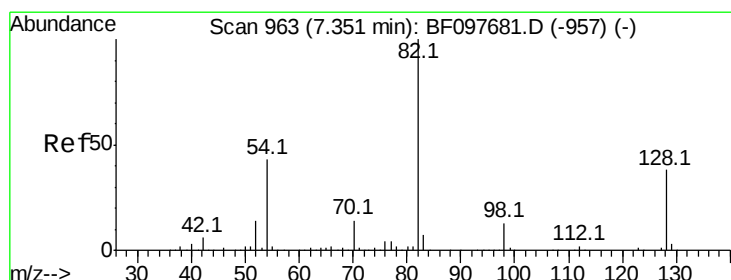
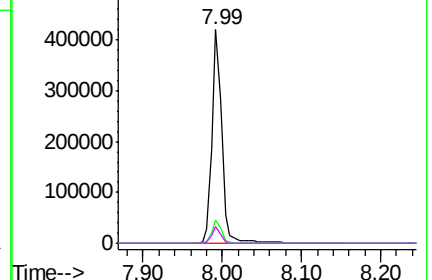
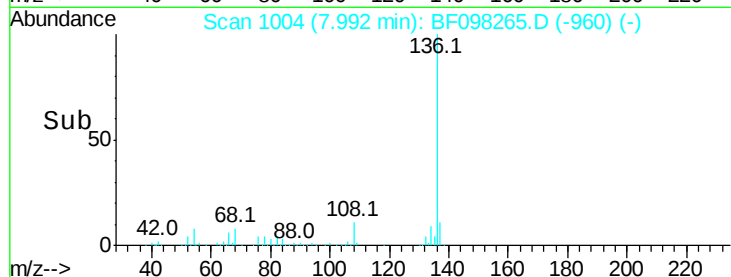


Abundance Ion 136.00 (135.70 to 136.70): E

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: 17.006 ng

RT: 7.27 min Scan# 882

Delta R.T. -0.05 min

Lab File: BF098265.D

Acq: 3 Sep 2017 00:16

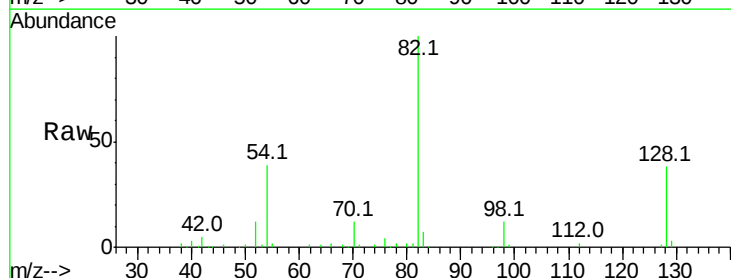
Tgt Ion: 82 Resp: 114709

Ion Ratio Lower Upper

82 100

128 38.0 34.0 51.0

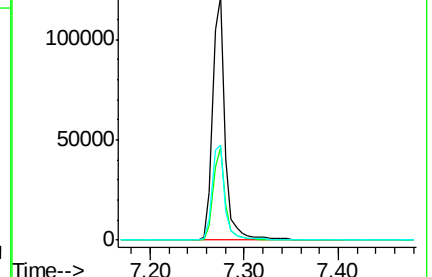
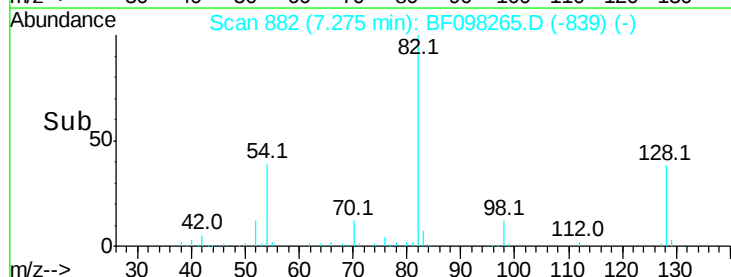
54 39.2 42.2 63.2#

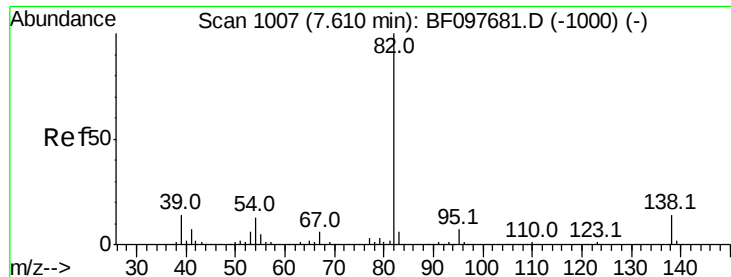


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 8.139 ng

RT: 7.27 min Scan# 882

Delta R.T. -0.31 min

Lab File: BF098265.D

Acq: 3 Sep 2017 00:16

Instrument :

BNA\_F

ClientSampleId :

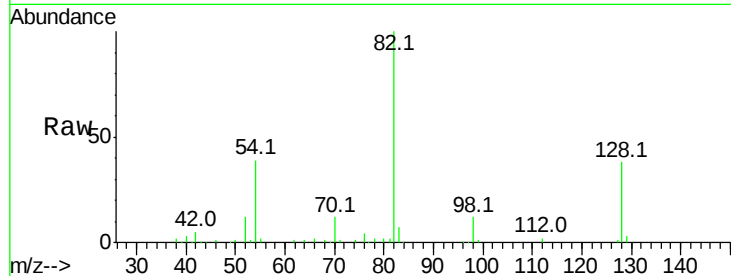
Tot Ion: 82 Resp: 114149

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

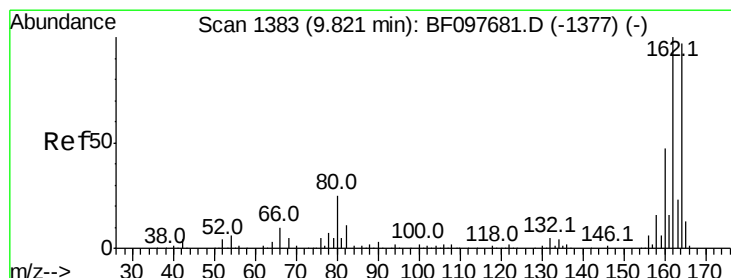
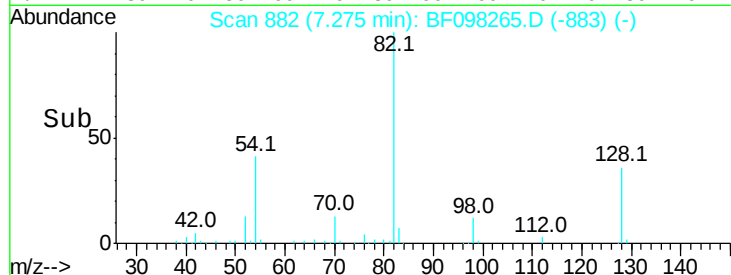
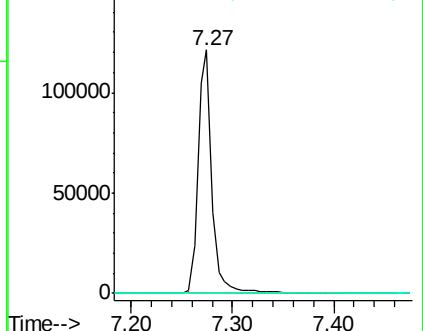
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.04 min

Lab File: BF098265.D

Acq: 3 Sep 2017 00:16

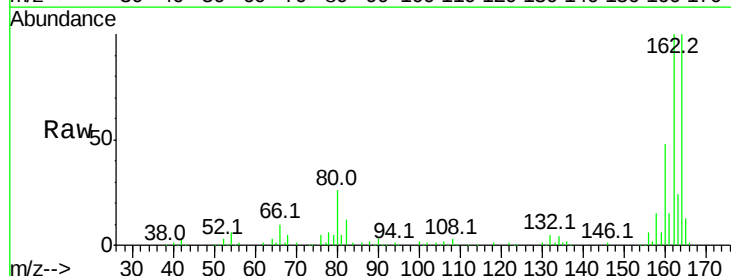
Tgt Ion:164 Resp: 138551

Ion Ratio Lower Upper

164 100

162 99.9 82.6 123.8

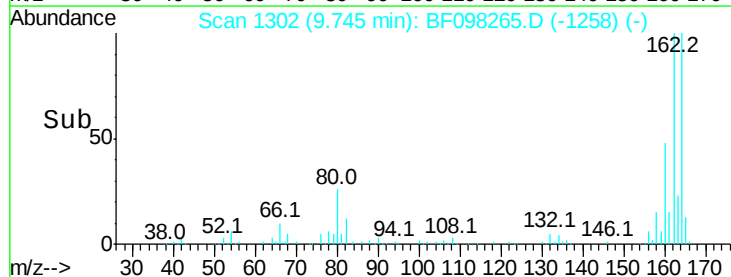
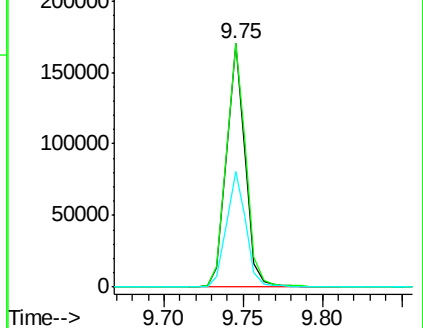
160 47.6 36.2 54.2



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

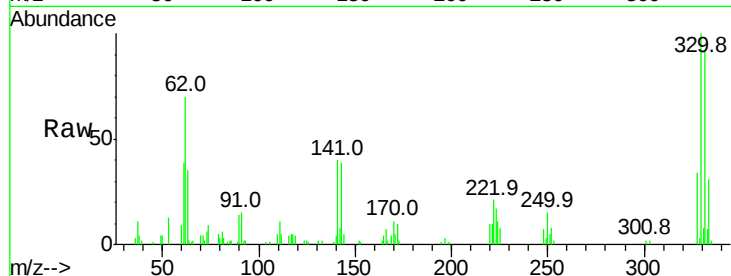




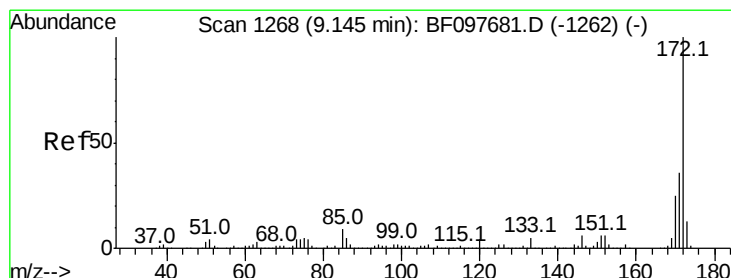
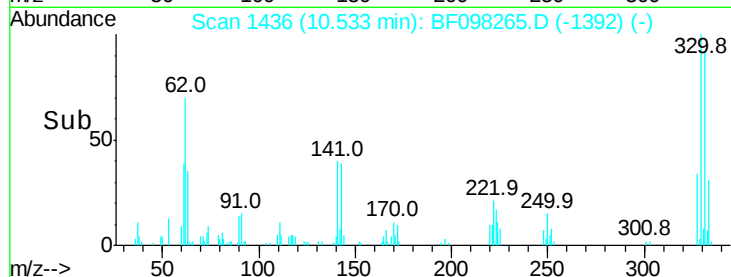
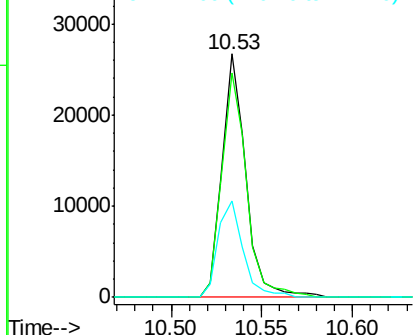
#41  
 2,4,6-Tribromophenol  
 Concen: 20.320 ng  
 RT: 10.53 min Scan# 1436  
 Delta R.T. -0.04 min  
 Lab File: BF098265.D  
 Acq: 3 Sep 2017 00:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 24428  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 76.6 115.0  
 141 41.8 31.4 47.2

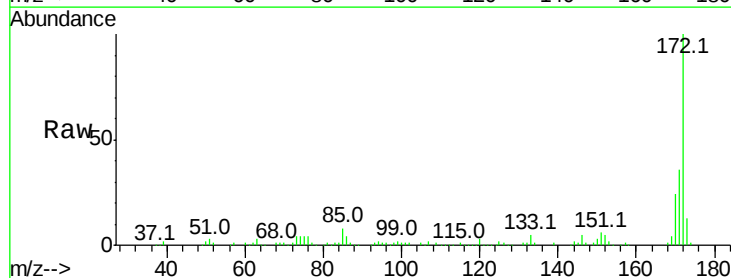


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

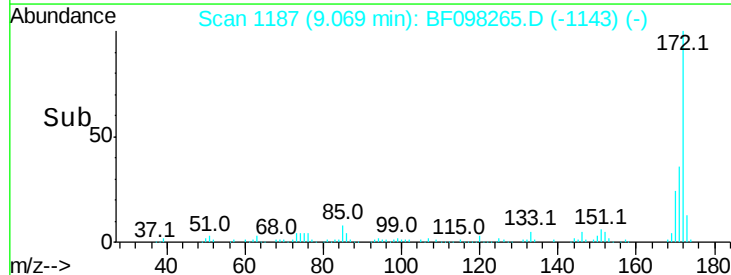
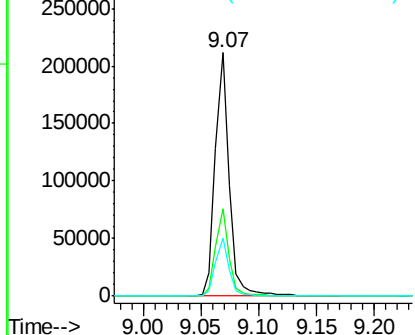


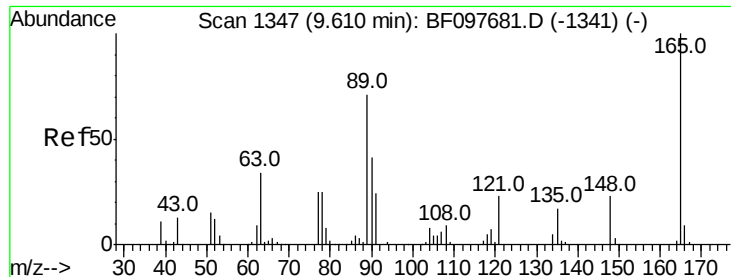
#44  
 2-Fluorobiphenyl  
 Concen: 18.916 ng  
 RT: 9.07 min Scan# 1187  
 Delta R.T. -0.04 min  
 Lab File: BF098265.D  
 Acq: 3 Sep 2017 00:16

Tgt Ion:172 Resp: 178385  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 29.6 44.4  
 170 23.9 19.8 29.8



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

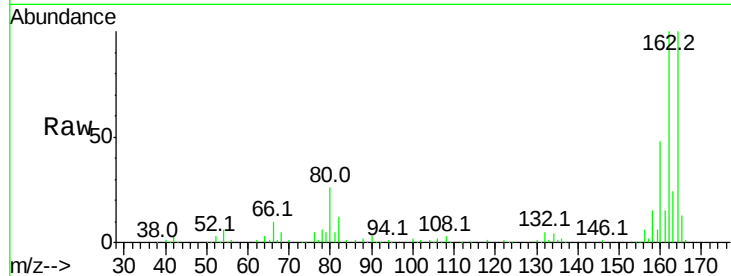




#50  
 2,6-Dinitrotoluene  
 Concen: 8.721 ng  
 RT: 9.75 min Scan# 1302  
 Delta R.T. 0.17 min  
 Lab File: BF098265.D  
 Acq: 3 Sep 2017 00:16

Instrument :  
 BNA\_F  
 ClientSampleId :

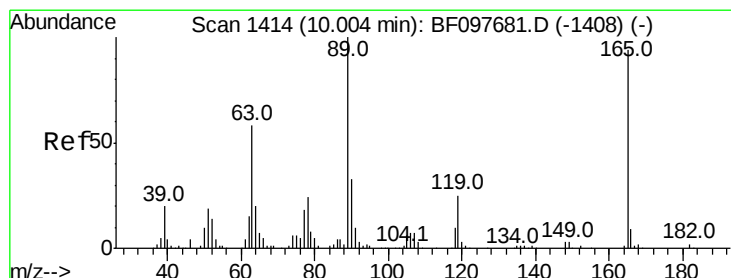
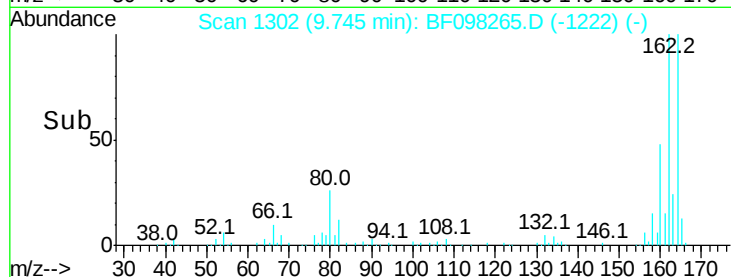
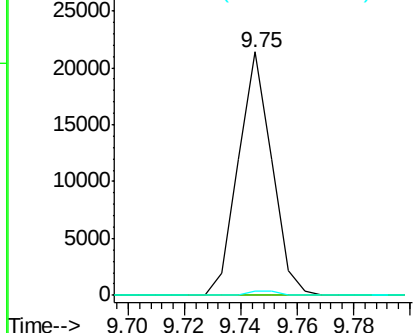
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 34.3  | 51.5# |
| 89      | 1.5   | 37.1  | 55.7# |



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56  
 2,4-Dinitrotoluene  
 Concen: 6.950 ng  
 RT: 9.75 min Scan# 1302  
 Delta R.T. -0.23 min  
 Lab File: BF098265.D  
 Acq: 3 Sep 2017 00:16

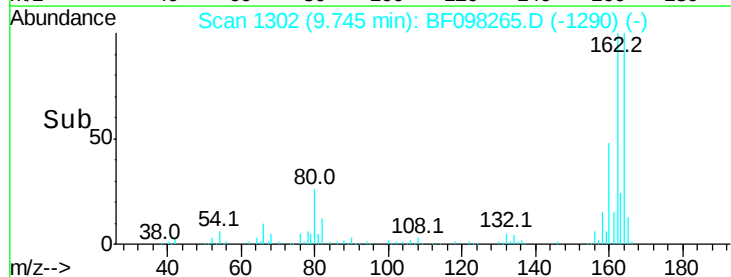
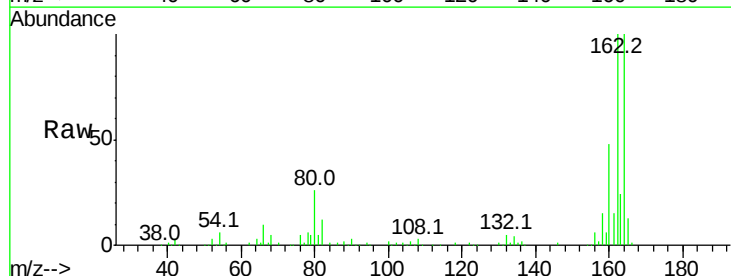
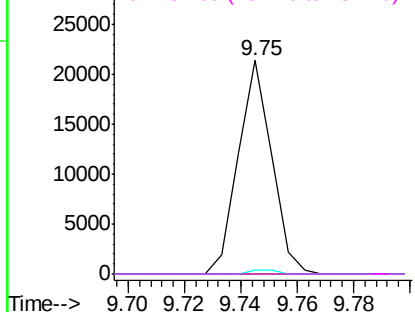
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 25.4  | 38.0# |
| 89      | 1.5   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

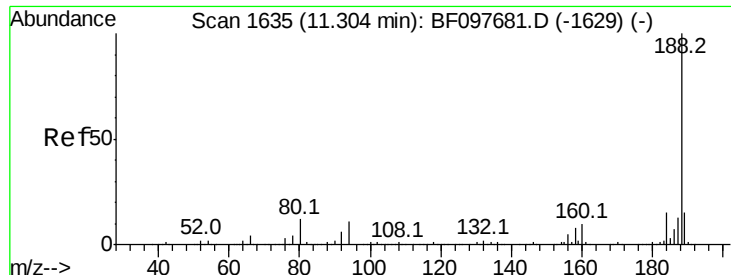
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.23 min Scan# 1554

Delta R.T. -0.04 min

Lab File: BF098265.D

Acq: 3 Sep 2017 00:16

Instrument :

BNA\_F

ClientSampleId :

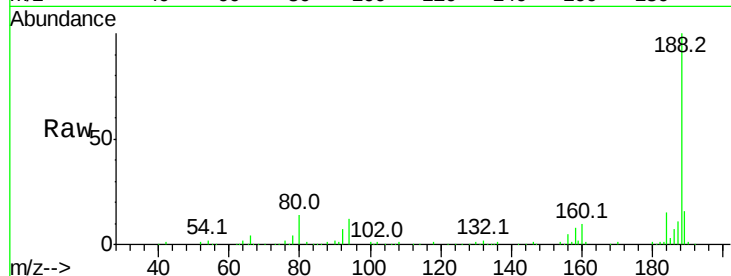
Tot Ion:188 Resp: 239927

Ion Ratio Lower Upper

188 100

94 11.9 9.4 14.2

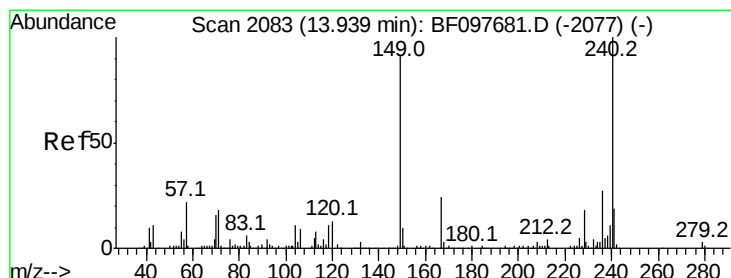
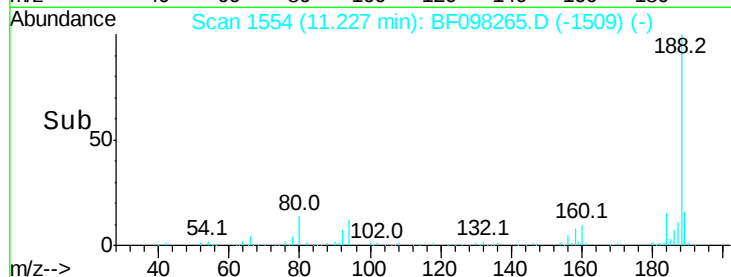
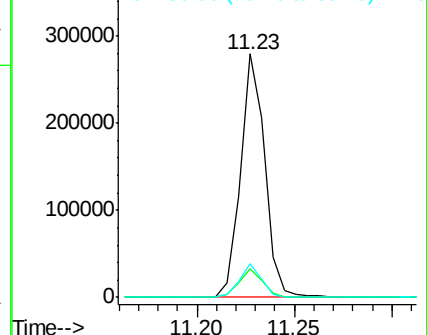
80 13.8 10.2 15.2



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.04 min

Lab File: BF098265.D

Acq: 3 Sep 2017 00:16

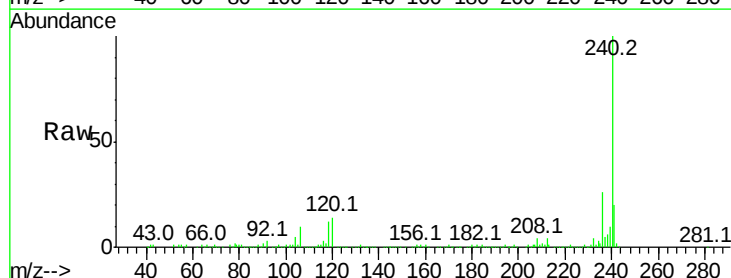
Tgt Ion:240 Resp: 229624

Ion Ratio Lower Upper

240 100

120 14.4 5.8 8.8#

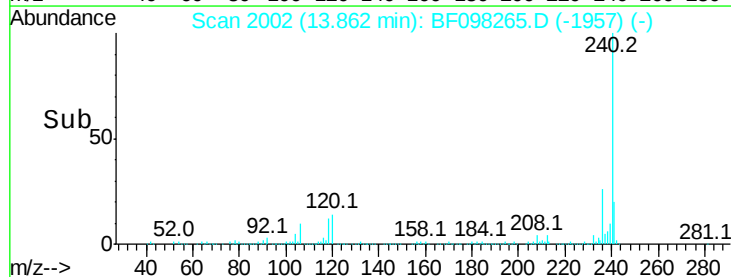
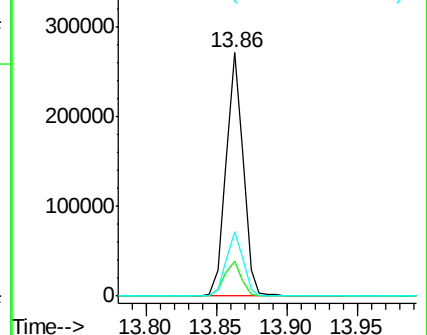
236 26.5 20.5 30.7

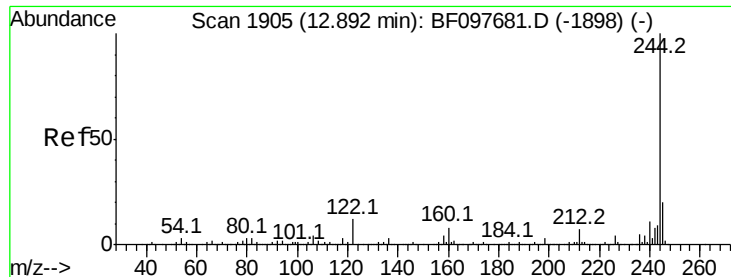


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 12.097 ng

RT: 12.81 min Scan# 1823

Delta R.T. -0.04 min

Lab File: BF098265.D

Acq: 3 Sep 2017 00:16

Instrument :

BNA\_F

ClientSampleId :

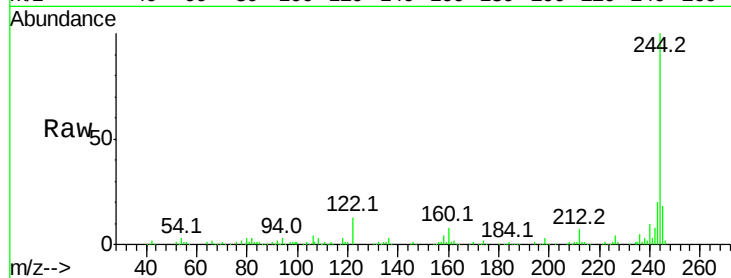
Tot Ion:244 Resp: 133201

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

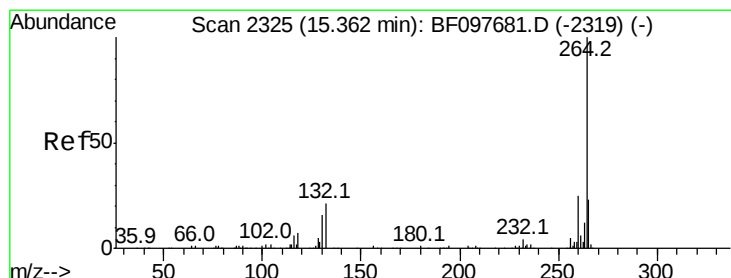
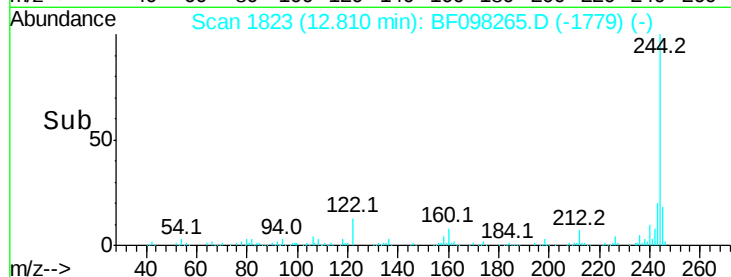
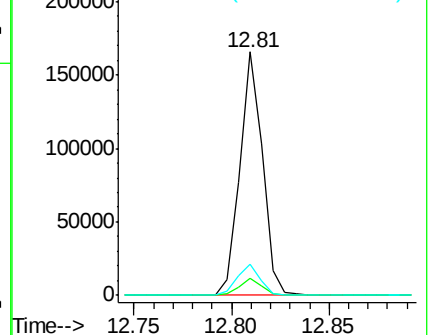
122 13.0 10.3 15.5



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: 20.000 ng

RT: 15.28 min Scan# 2243

Delta R.T. -0.03 min

Lab File: BF098265.D

Acq: 3 Sep 2017 00:16

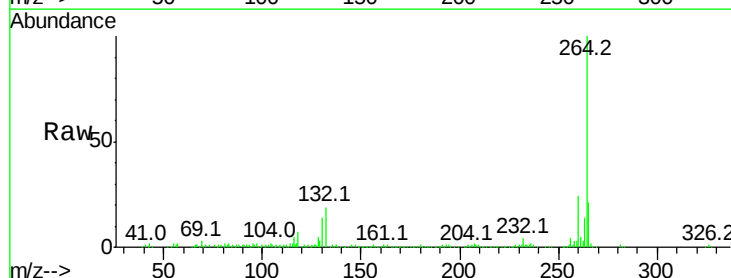
Tgt Ion:264 Resp: 179779

Ion Ratio Lower Upper

264 100

260 24.2 19.5 29.3

265 21.1 17.2 25.8



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

