

Data Path : Z:\HPCHEM1\BNA F\Data\BF063016\  
 Data File : BF088535.D  
 Acq On : 30 Jun 2016 18:04  
 Operator : UM/SJ  
 Sample : PB91573BL  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 30 20:15:35 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 30 18:01:55 2016  
 Response via : Initial Calibration

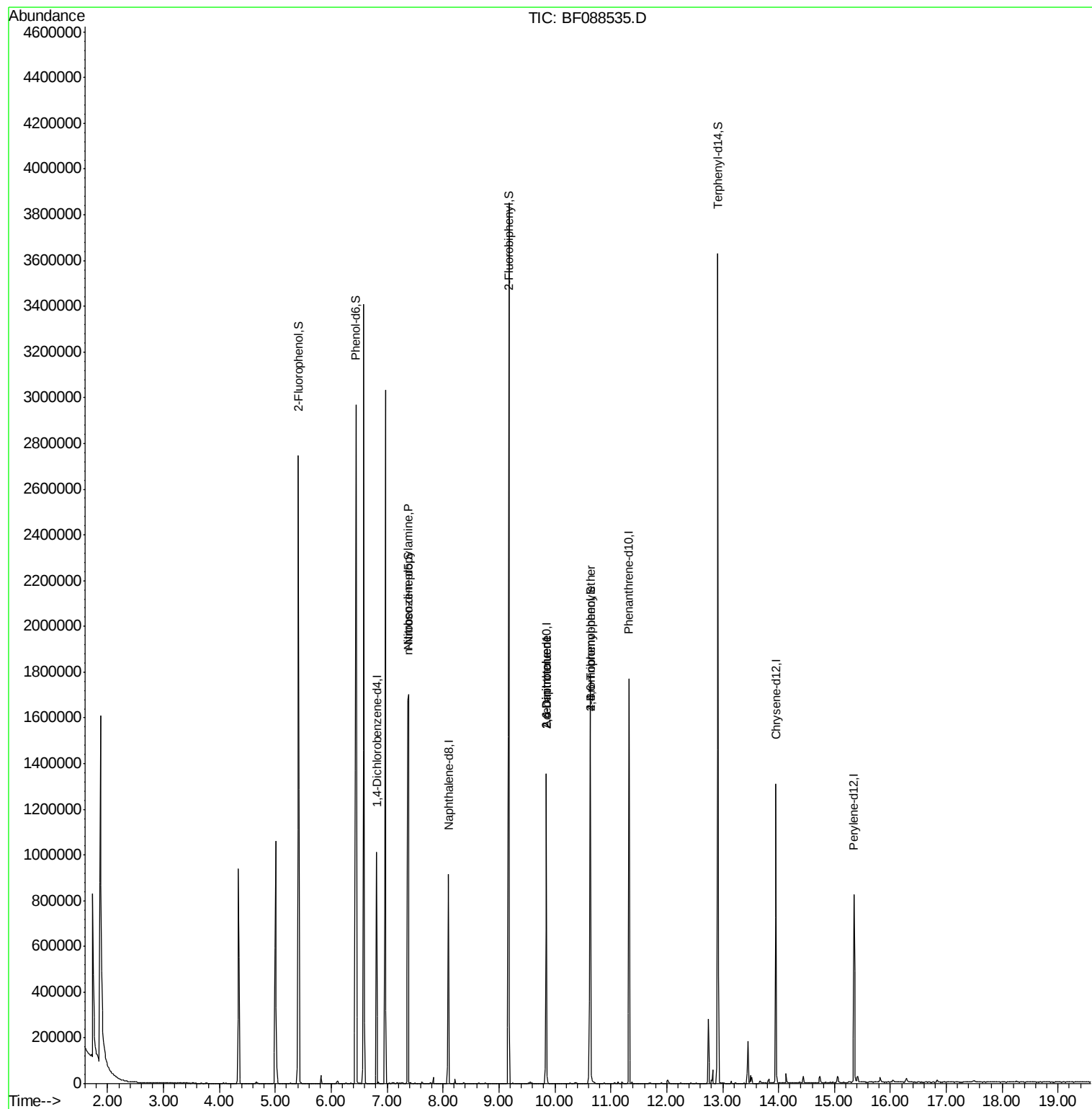
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.81  | 152  | 145393   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.10  | 136  | 625009   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.85  | 164  | 301965   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.32 | 188  | 562513   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.95 | 240  | 505684   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.35 | 264  | 384544   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 1041630  | 107.37 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.44  | 99   | 1198021  | 95.57  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.38  | 82   | 940662   | 78.87  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.64 | 330  | 322626   | 115.06 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.18  | 172  | 1282146  | 67.07  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.91 | 244  | 1190051  | 52.42  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 125086   | 14.86  | ng    | # 75     |
| 50) 2,6-Dinitrotoluene         | 9.85  | 165  | 38673    | 8.11   | ng    | # 40     |
| 56) 2,4-Dinitrotoluene         | 9.85  | 165  | 38675    | 6.20   | ng    | # 38     |
| 66) 4-Bromophenyl-phenylether  | 10.64 | 248  | 20781    | 3.67   | ng    | # 1      |

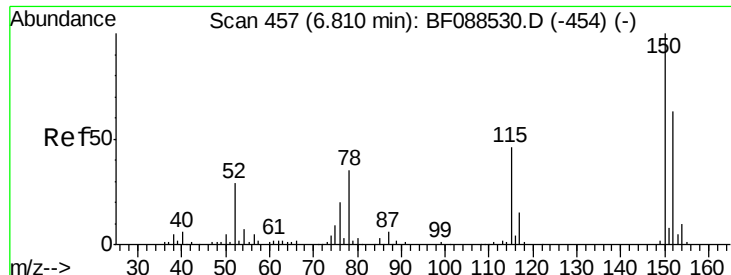
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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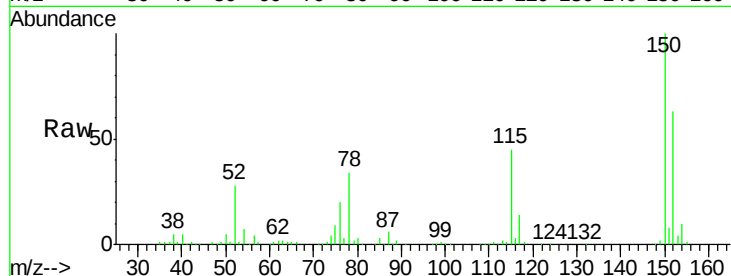


#1

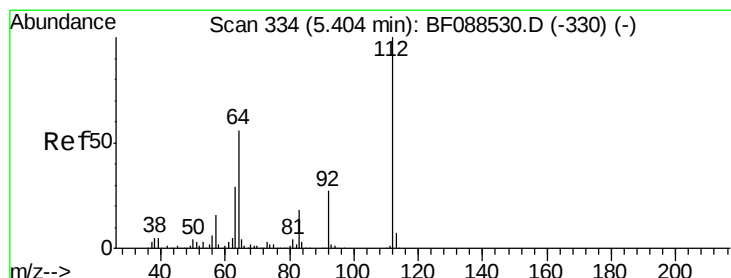
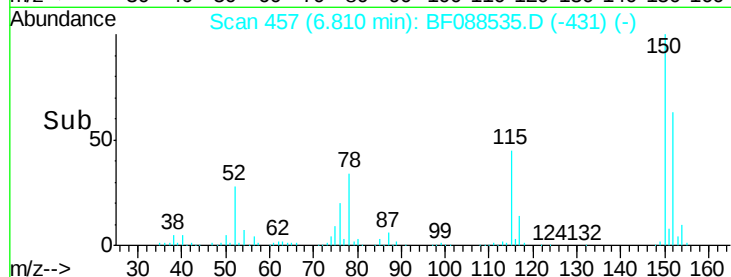
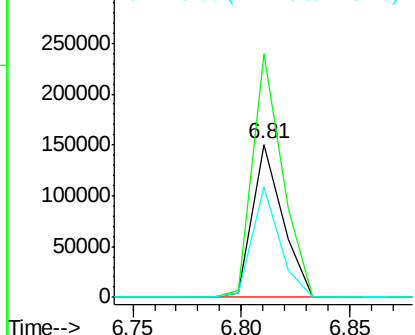
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.81 min Scan# 457  
Delta R.T. -0.00 min  
Lab File: BF088535.D  
Acq: 30 Jun 2016 18:04

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 145393  
Ion Ratio Lower Upper  
152 100  
150 158.9 123.8 185.6  
115 71.9 39.6 59.4#



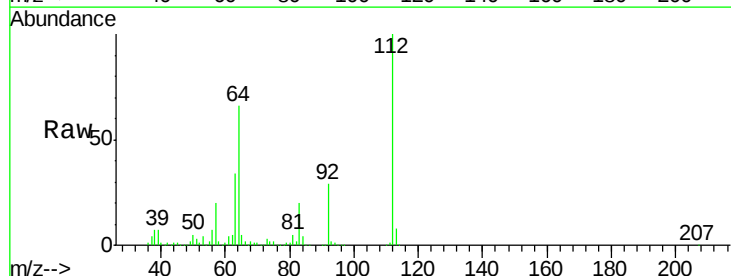
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



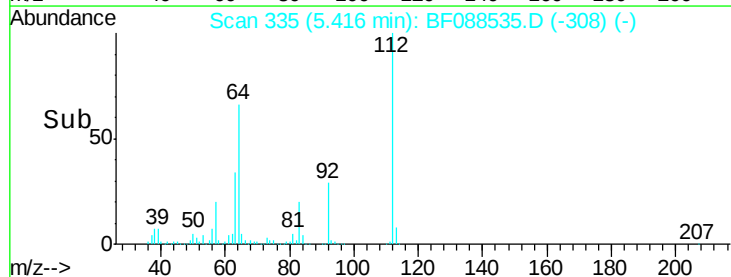
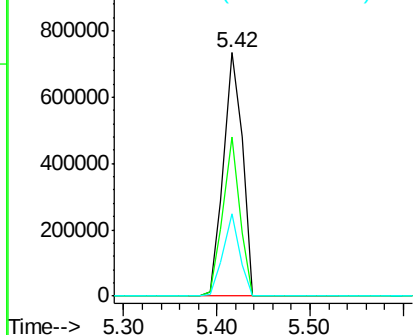
#5

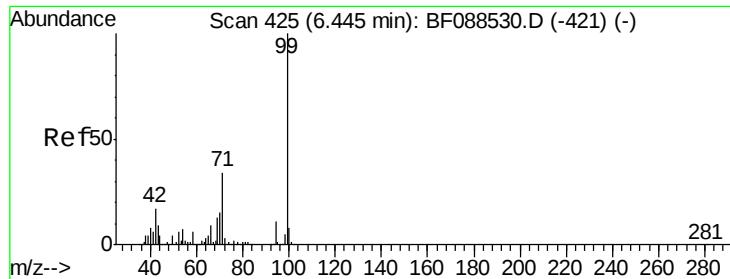
2-Fluorophenol  
Concen: 107.37 ng  
RT: 5.42 min Scan# 335  
Delta R.T. 0.01 min  
Lab File: BF088535.D  
Acq: 30 Jun 2016 18:04

Tgt Ion:112 Resp: 1041630  
Ion Ratio Lower Upper  
112 100  
64 65.6 42.2 63.2#  
63 33.9 21.8 32.8#



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: 95.57 ng

RT: 6.44 min Scan# 425

Delta R.T. -0.00 min

Lab File: BF088535.D

Acq: 30 Jun 2016 18:04

Instrument :

BNA\_F

ClientSampleId :

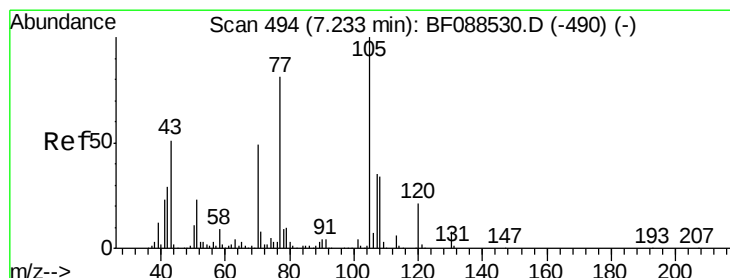
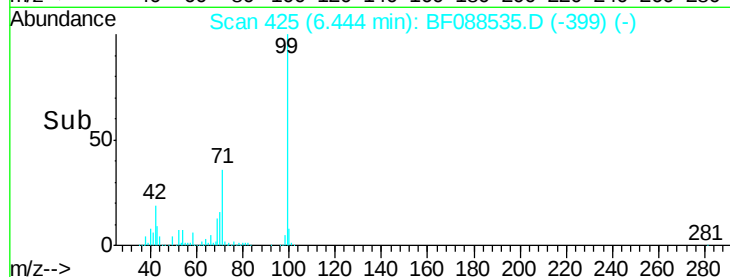
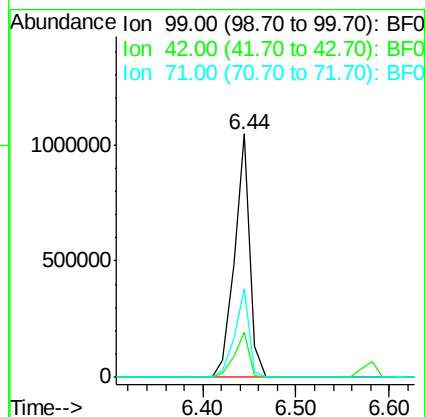
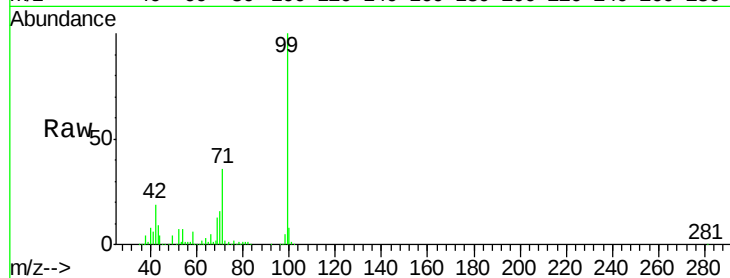
Tot Ion: 99 Resp: 1198021

Ion Ratio Lower Upper

99 100

42 18.7 12.2 18.2#

71 36.3 23.4 35.0#



#19

n-Nitroso-di-n-propylamine

Concen: 14.86 ng

RT: 7.37 min Scan# 506

Delta R.T. 0.14 min

Lab File: BF088535.D

Acq: 30 Jun 2016 18:04

Tgt Ion: 70 Resp: 125086

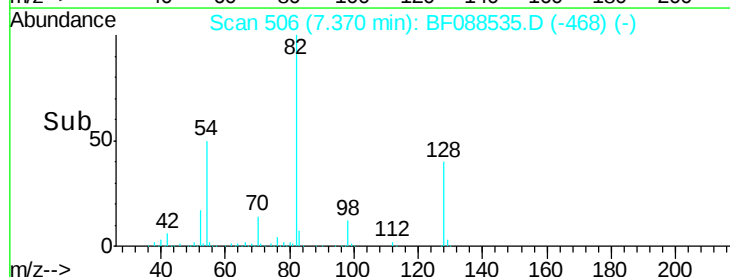
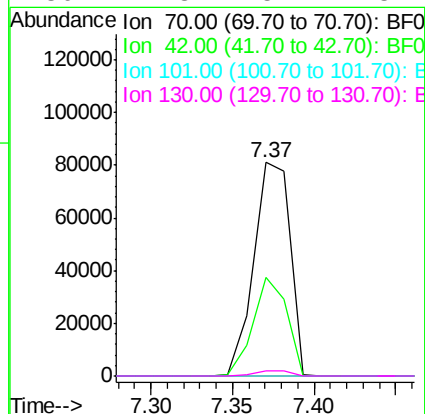
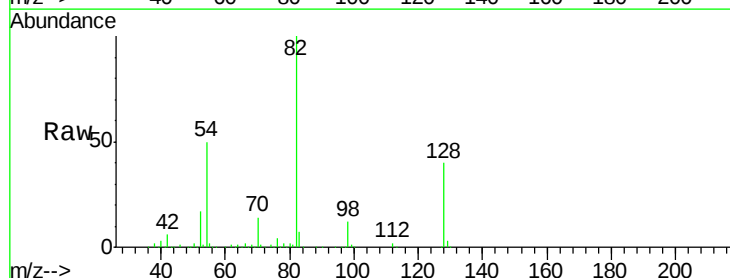
Ion Ratio Lower Upper

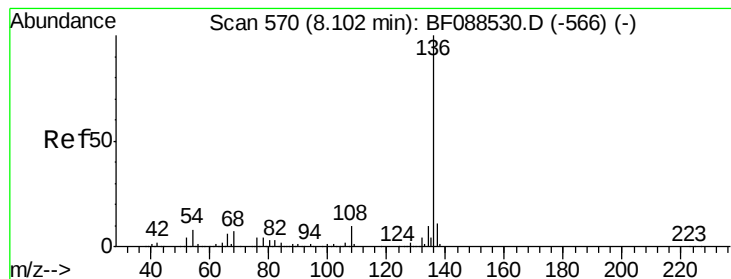
70 100

42 46.0 49.6 74.4#

101 0.0 7.1 10.7#

130 2.3 15.4 23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 570

Delta R.T. -0.00 min

Lab File: BF088535.D

Acq: 30 Jun 2016 18:04

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 625009

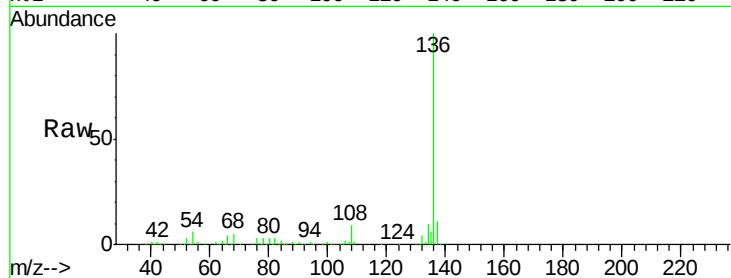
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 5.9 6.6 10.0#

68 5.3 5.1 7.7

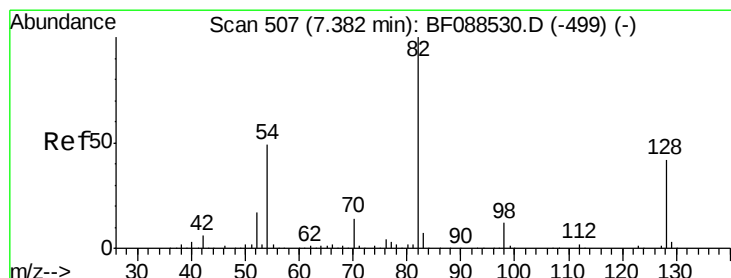
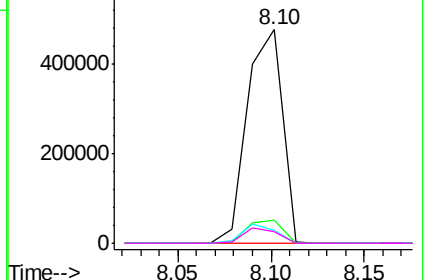
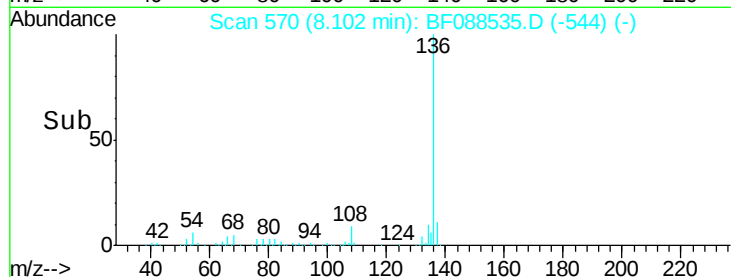


Abundance Ion 136.00 (135.70 to 136.70): E

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: 78.87 ng

RT: 7.38 min Scan# 507

Delta R.T. -0.00 min

Lab File: BF088535.D

Acq: 30 Jun 2016 18:04

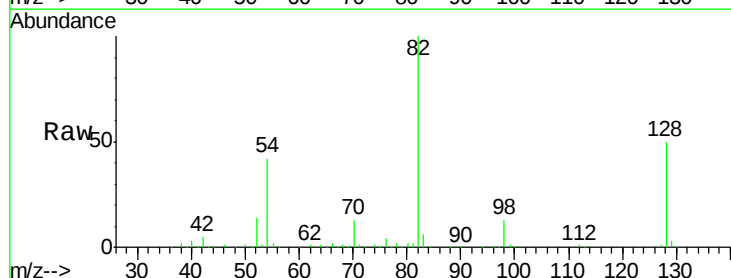
Tgt Ion: 82 Resp: 940662

Ion Ratio Lower Upper

82 100

128 50.0 35.9 53.9

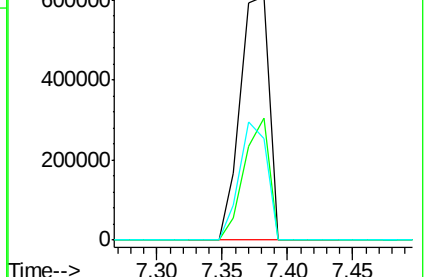
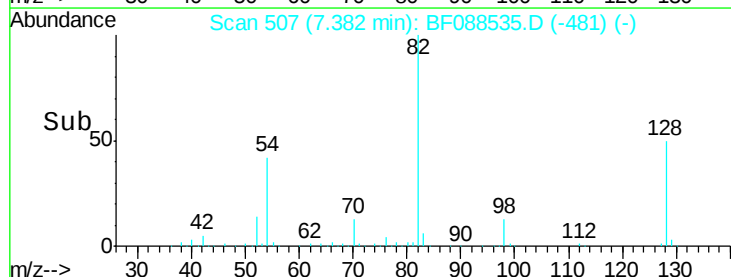
54 41.8 40.9 61.3

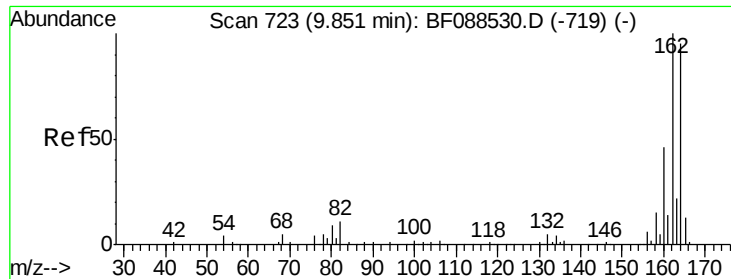


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 9.85 min Scan# 723

Delta R.T. -0.00 min

Lab File: BF088535.D

Acq: 30 Jun 2016 18:04

Instrument :

BNA\_F

ClientSampleId :

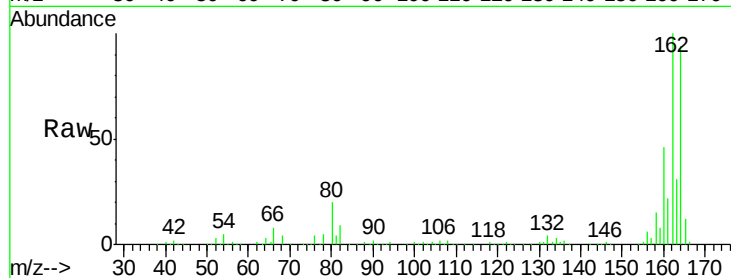
Tot Ion:164 Resp: 301965

Ion Ratio Lower Upper

164 100

162 106.1 85.4 128.2

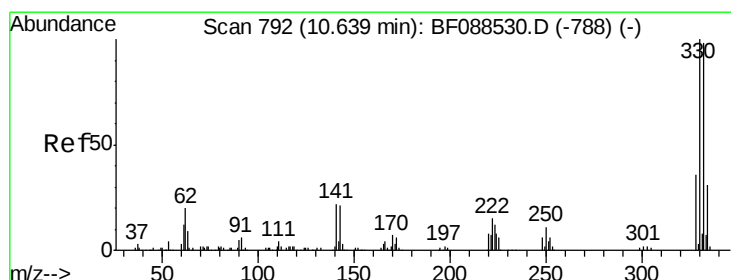
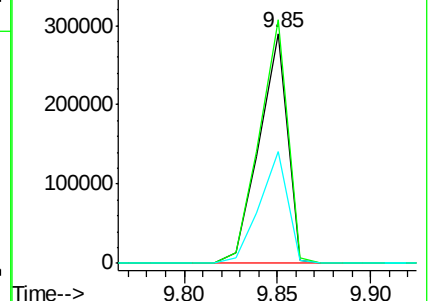
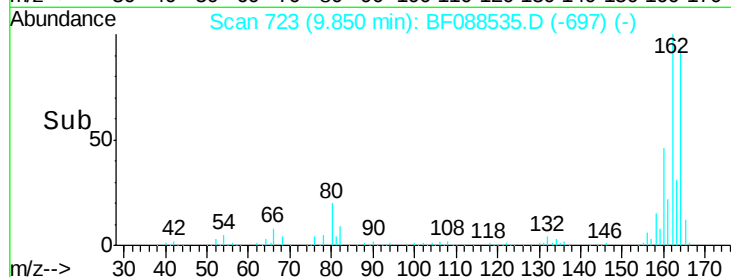
160 48.7 39.5 59.3



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: 115.06 ng

RT: 10.64 min Scan# 792

Delta R.T. -0.00 min

Lab File: BF088535.D

Acq: 30 Jun 2016 18:04

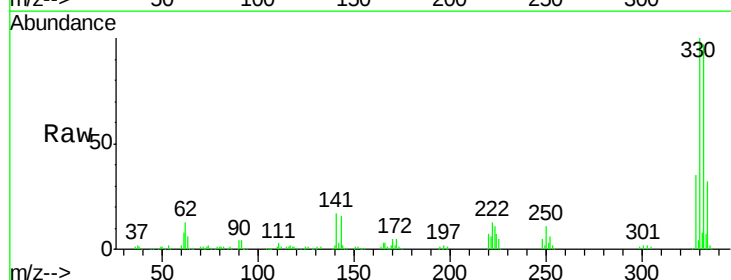
Tgt Ion:330 Resp: 322626

Ion Ratio Lower Upper

330 100

332 95.4 0.0 0.0#

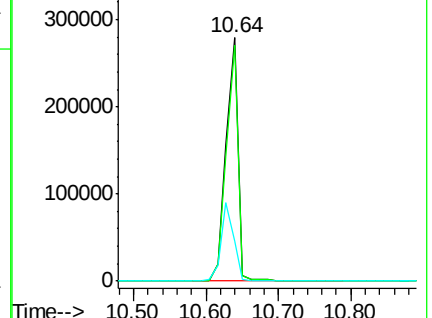
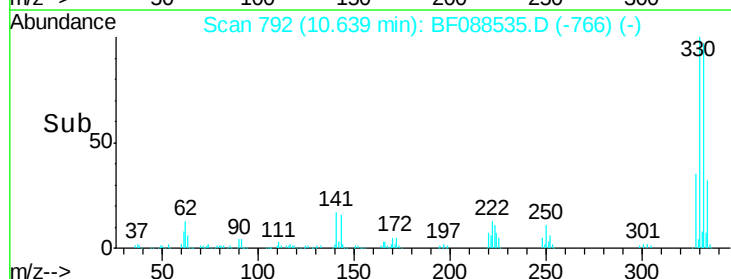
141 34.3 0.0 0.0#

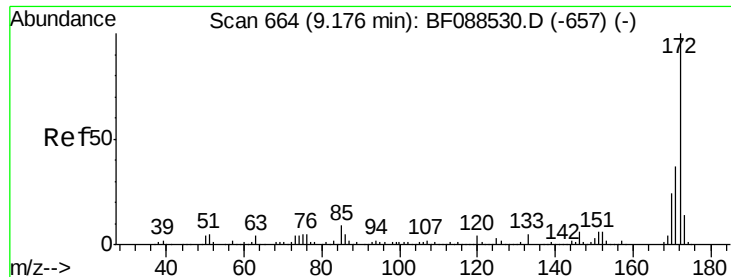


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

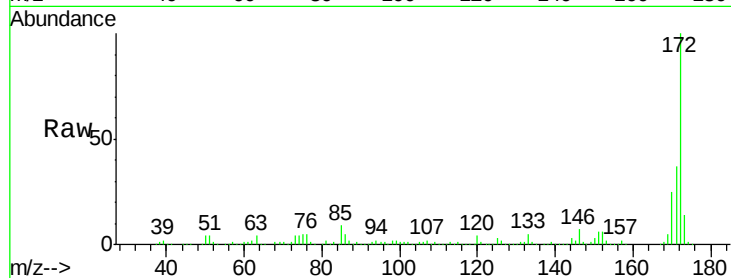




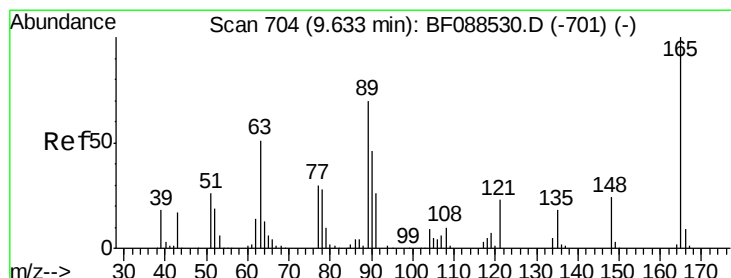
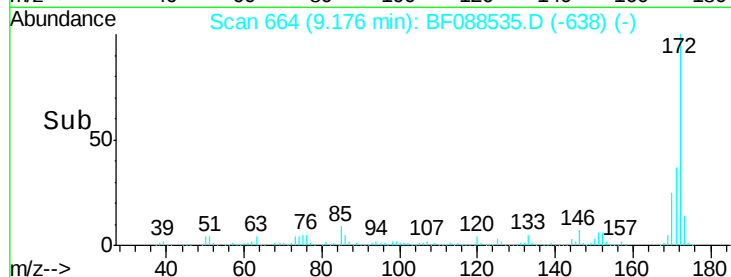
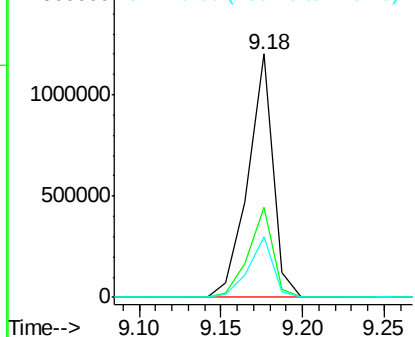
#44  
2-Fluorobiphenyl  
Concen: 67.07 ng  
RT: 9.18 min Scan# 664  
Delta R.T. -0.00 min  
Lab File: BF088535.D  
Acq: 30 Jun 2016 18:04

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1282146  
Ion Ratio Lower Upper  
172 100  
171 36.9 28.6 43.0  
170 25.0 19.2 28.8

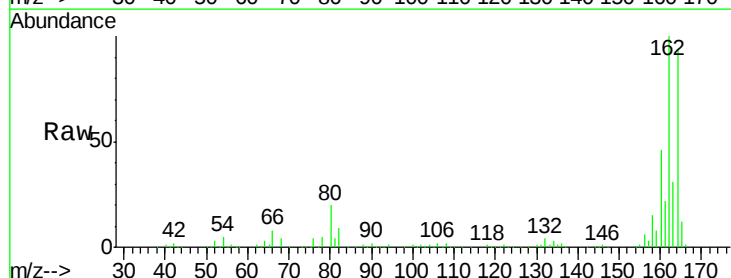


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

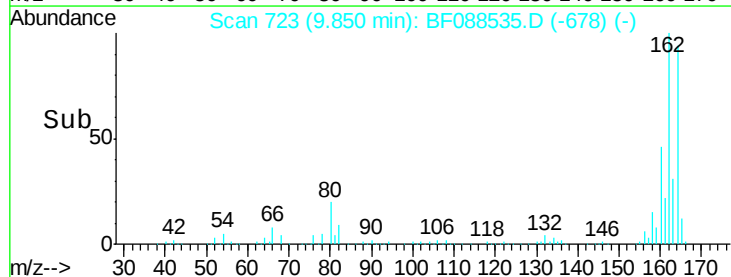
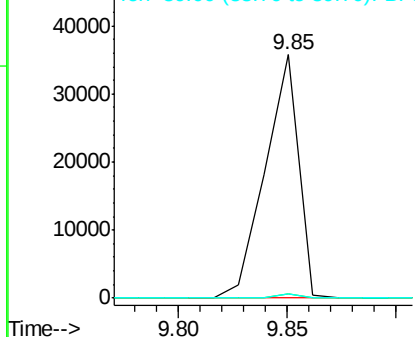


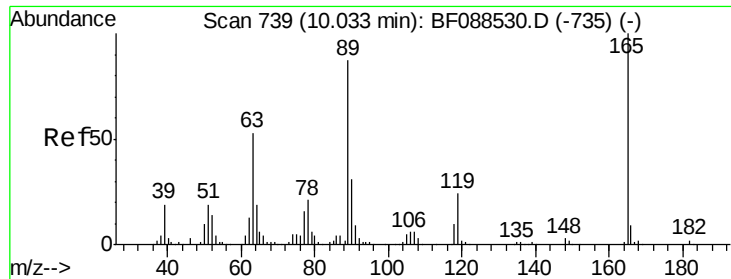
#50  
2,6-Dinitrotoluene  
Concen: 8.11 ng  
RT: 9.85 min Scan# 723  
Delta R.T. 0.22 min  
Lab File: BF088535.D  
Acq: 30 Jun 2016 18:04

Tgt Ion:165 Resp: 38673  
Ion Ratio Lower Upper  
165 100  
63 1.5 28.1 42.1#  
89 1.7 32.2 48.2#



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

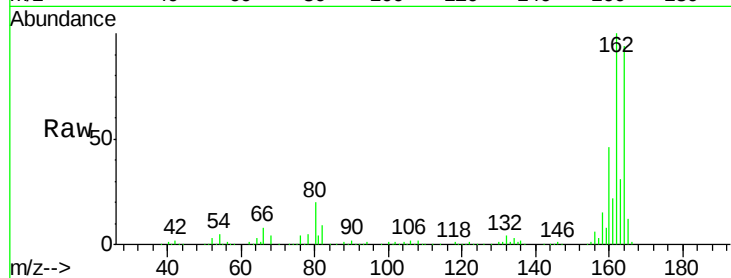




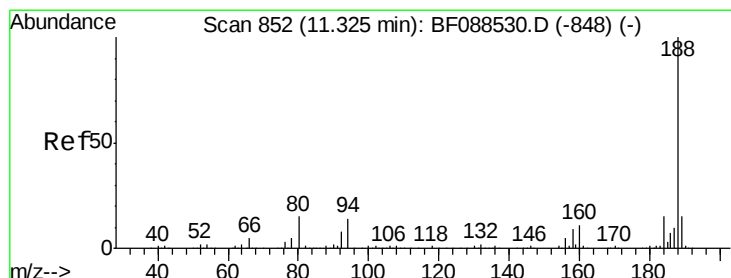
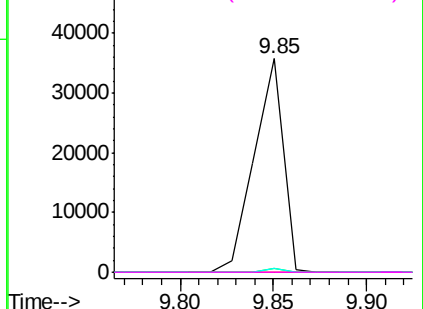
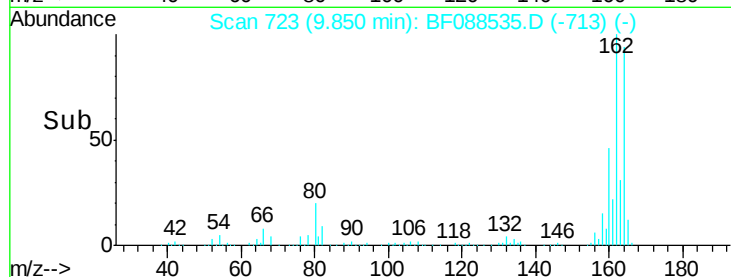
#56  
 2,4-Dinitrotoluene  
 Concen: 6.20 ng  
 RT: 9.85 min Scan# 723  
 Delta R.T. -0.18 min  
 Lab File: BF088535.D  
 Acq: 30 Jun 2016 18:04

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 38675  
 Ion Ratio Lower Upper  
 165 100  
 63 1.5 22.0 33.0#  
 89 1.7 41.1 61.7#  
 182 0.0 2.0 3.0#

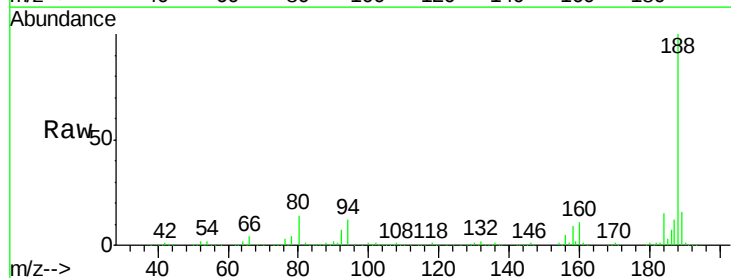


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

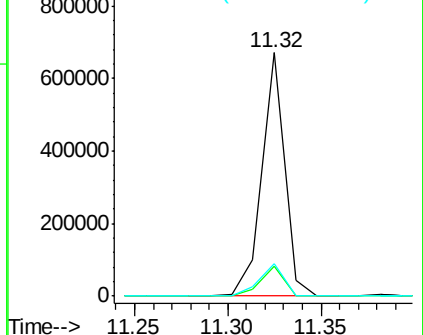
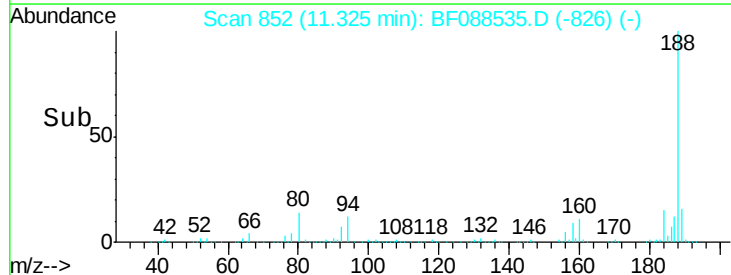


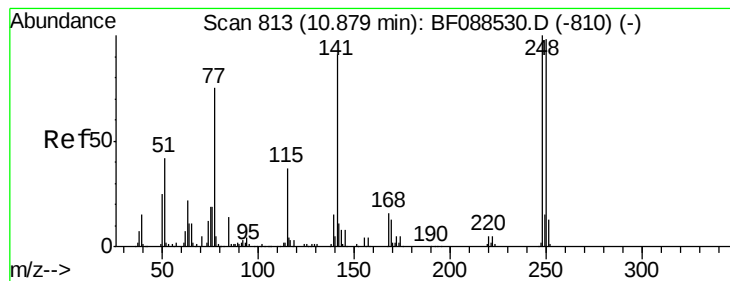
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.32 min Scan# 852  
 Delta R.T. -0.00 min  
 Lab File: BF088535.D  
 Acq: 30 Jun 2016 18:04

Tgt Ion:188 Resp: 562513  
 Ion Ratio Lower Upper  
 188 100  
 94 12.3 9.0 13.6  
 80 13.5 10.0 15.0



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





#66

4-Bromophenyl-phenylether

Concen: 3.67 ng

RT: 10.64 min Scan# 792

Delta R.T. -0.24 min

Lab File: BF088535.D

Acq: 30 Jun 2016 18:04

Instrument :

BNA\_F

ClientSampleId :

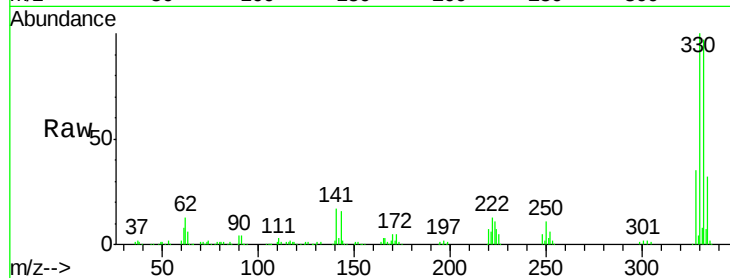
Tot Ion:248 Resp: 20781

Ion Ratio Lower Upper

248 100

250 200.2 77.1 115.7#

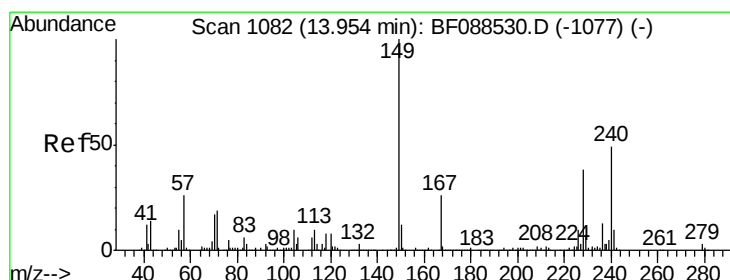
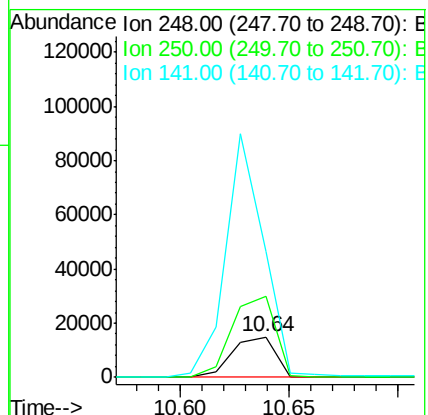
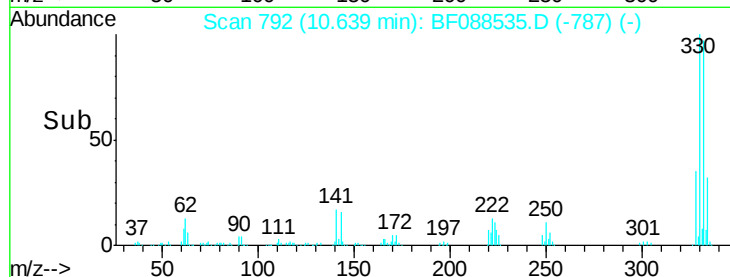
141 309.0 50.6 76.0#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.95 min Scan# 1082

Delta R.T. -0.00 min

Lab File: BF088535.D

Acq: 30 Jun 2016 18:04

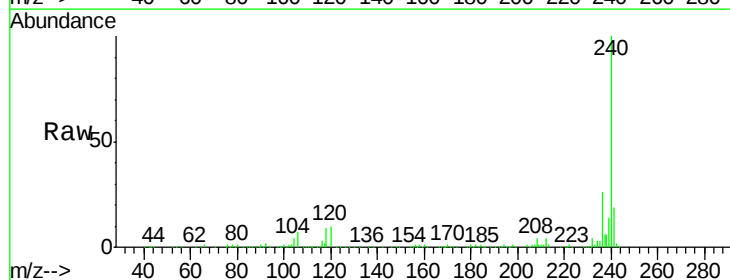
Tgt Ion:240 Resp: 505684

Ion Ratio Lower Upper

240 100

120 10.1 6.8 10.2

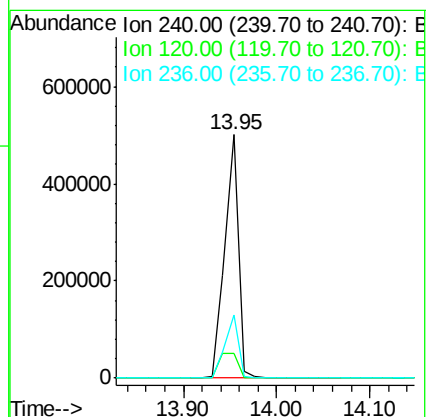
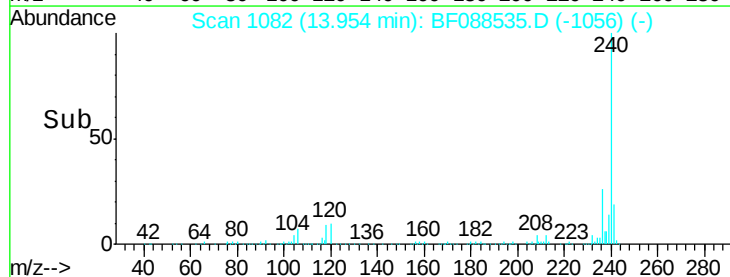
236 26.1 20.2 30.2

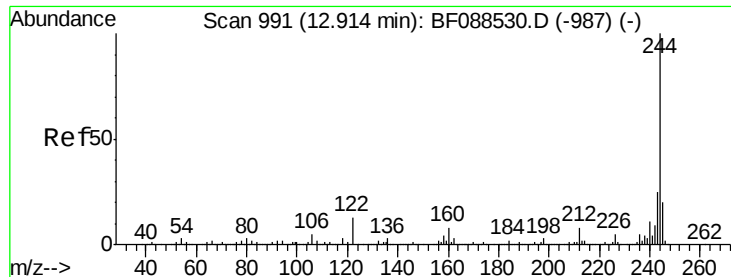


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 52.42 ng

RT: 12.91 min Scan# 991

Delta R.T. -0.00 min

Lab File: BF088535.D

Acq: 30 Jun 2016 18:04

Instrument :

BNA\_F

ClientSampled :

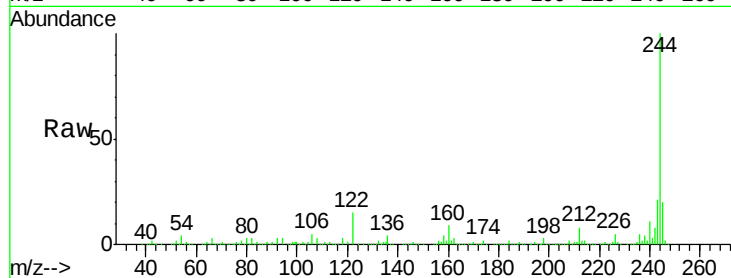
Tot Ion:244 Resp: 1190051

Ion Ratio Lower Upper

244 100

212 8.1 6.0 9.0

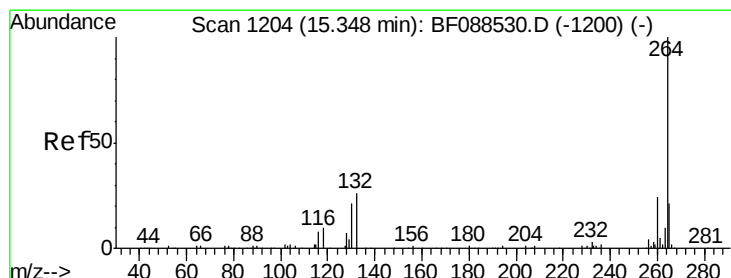
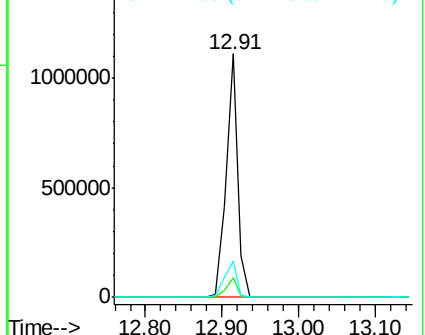
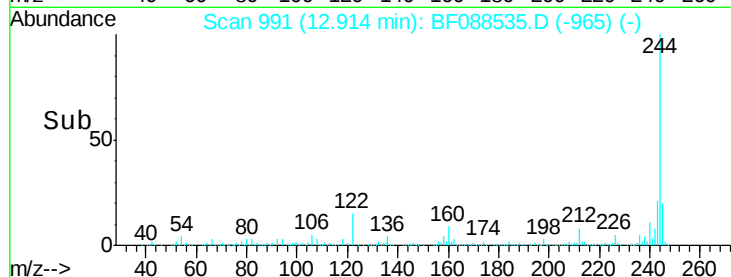
122 14.8 11.2 16.8



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: 15.35 min Scan# 1204

Delta R.T. -0.00 min

Lab File: BF088535.D

Acq: 30 Jun 2016 18:04

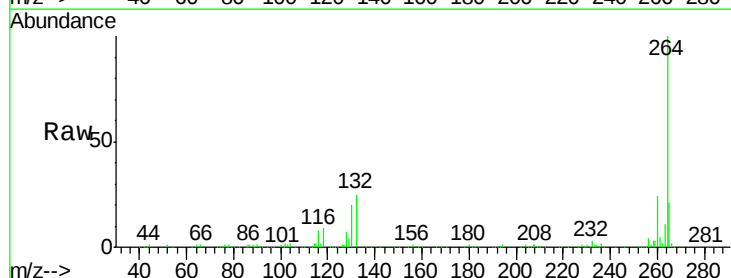
Tgt Ion:264 Resp: 384544

Ion Ratio Lower Upper

264 100

260 23.9 19.2 28.8

265 21.3 16.9 25.3



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

