

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121715\  
 Data File : BF083867.D  
 Acq On : 17 Dec 2015 4:57  
 Operator : UM/SJ  
 Sample : G4775-16  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMPOSITE-A-20150872

Quant Time: Dec 17 06:13:04 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 14 01:30:12 2015  
 Response via : Initial Calibration

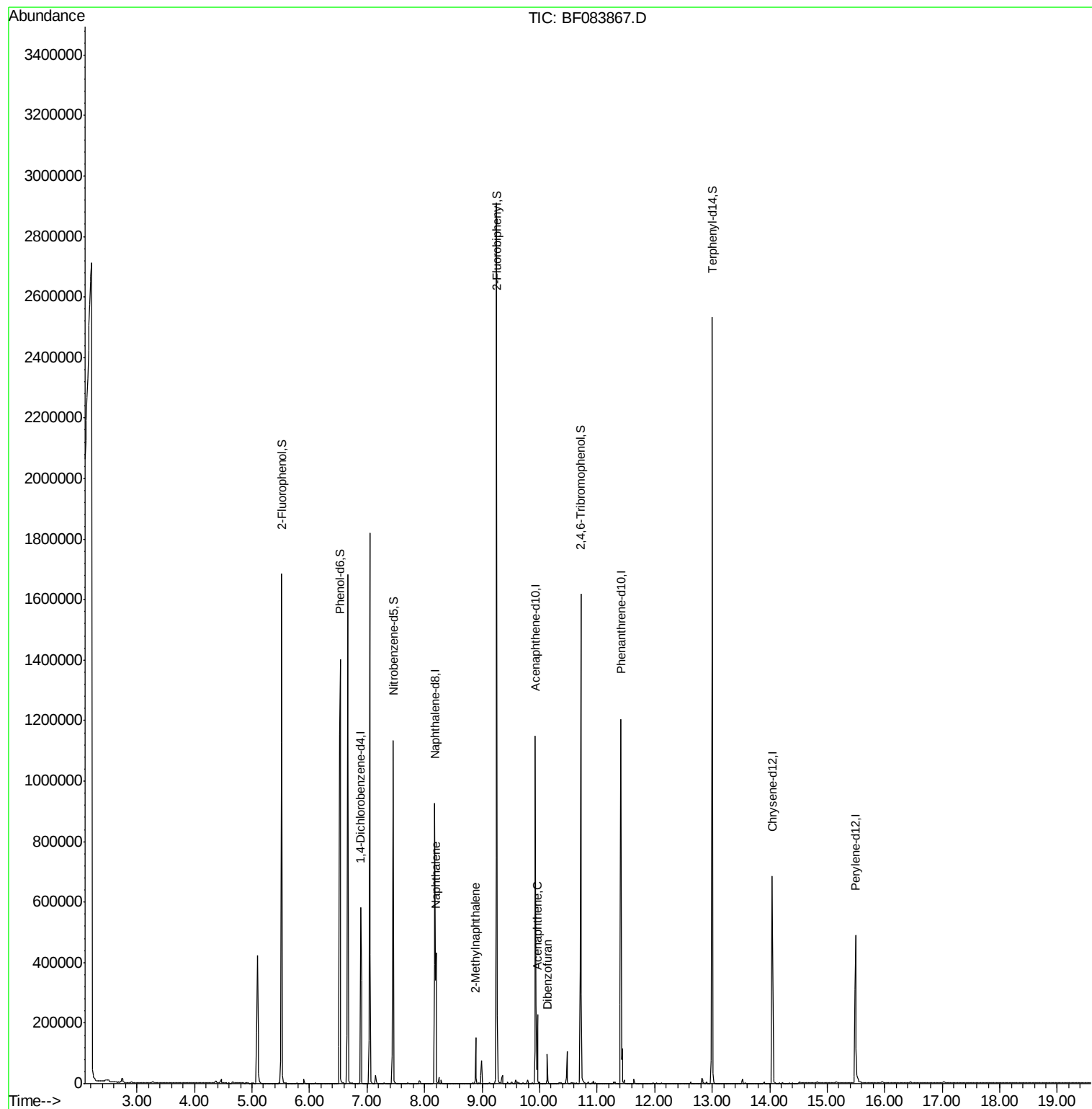
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.89  | 152  | 108893   | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8          | 8.18  | 136  | 473469   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10        | 9.93  | 164  | 224319   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10        | 11.41 | 188  | 416962   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12            | 14.04 | 240  | 270708   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12            | 15.49 | 264  | 253691   | 20.00 | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.52  | 112  | 608782   | 90.19 | ng    | -0.01    |
| 7) Phenol-d6                | 6.53  | 99   | 722747   | 84.55 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.46  | 82   | 520097   | 61.46 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.72 | 330  | 202301   | 88.50 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 9.25  | 172  | 898777   | 52.72 | ng    | -0.03    |
| 78) Terphenyl-d14           | 13.00 | 244  | 923712   | 73.40 | ng    | -0.02    |
| Target Compounds            |       |      |          |       |       |          |
| 31) Naphthalene             | 8.20  | 128  | 272470   | 11.04 | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.89  | 142  | 40707    | 2.63  | ng    | 98       |
| 51) Acenaphthene            | 9.96  | 154  | 49937    | 3.35  | ng    | 99       |
| 54) Dibenzofuran            | 10.13 | 168  | 39666    | 2.01  | ng    | 98       |

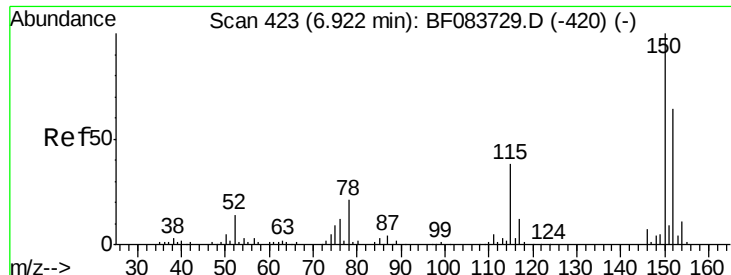
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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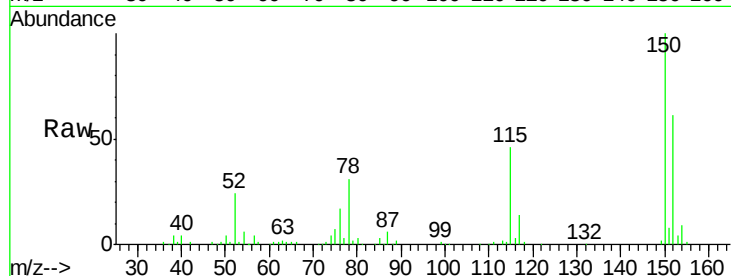


#1

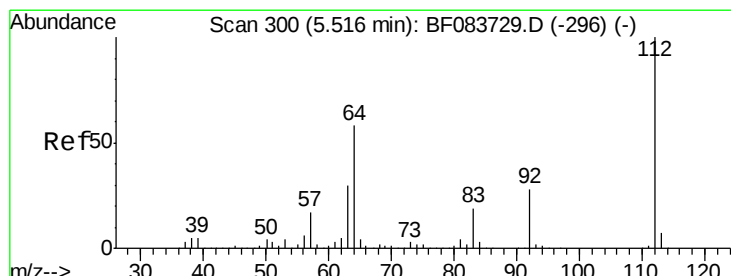
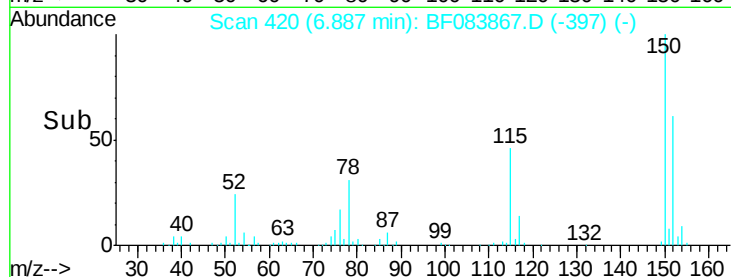
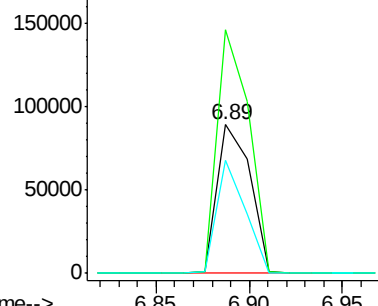
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.89 min Scan# 420  
Delta R.T. -0.03 min  
Lab File: BF083867.D  
Acq: 17 Dec 2015 4:57

Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSITE-A-20150872

Tot Ion:152 Resp: 108893  
Ion Ratio Lower Upper  
152 100  
150 164.2 126.5 189.7  
115 76.0 52.3 78.5



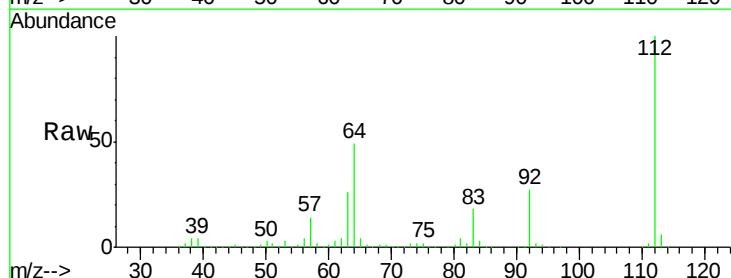
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



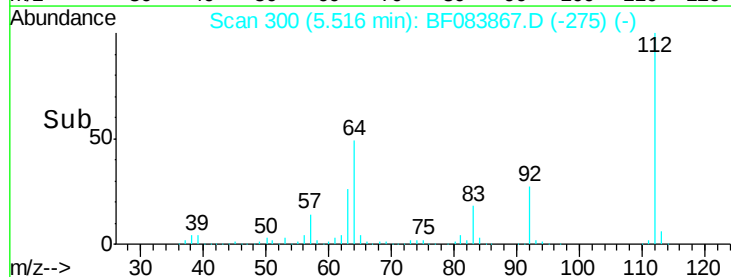
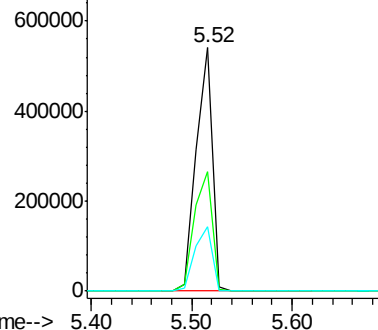
#5

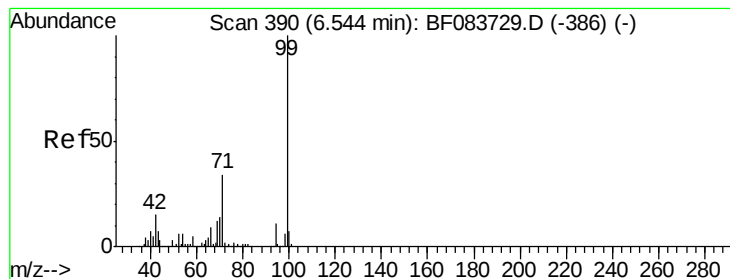
2-Fluorophenol  
Concen: 90.19 ng  
RT: 5.52 min Scan# 300  
Delta R.T. -0.01 min  
Lab File: BF083867.D  
Acq: 17 Dec 2015 4:57

Tgt Ion:112 Resp: 608782  
Ion Ratio Lower Upper  
112 100  
64 49.2 50.5 75.7#  
63 26.3 25.8 38.6



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: 84.55 ng

RT: 6.53 min Scan# 389

Delta R.T. -0.01 min

Lab File: BF083867.D

Acq: 17 Dec 2015 4:57

Instrument :

BNA\_F

ClientSampleId :

COMPOSITE-A-20150872

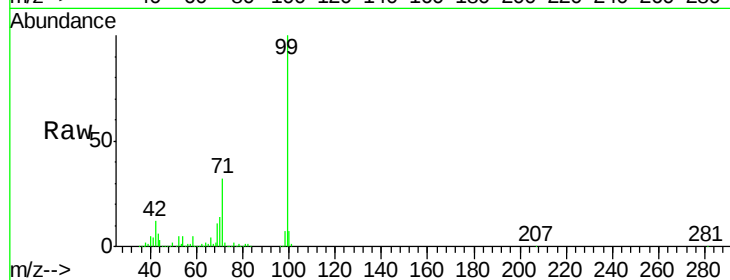
Tot Ion: 99 Resp: 722747

Ion Ratio Lower Upper

99 100

42 11.7 17.3 25.9#

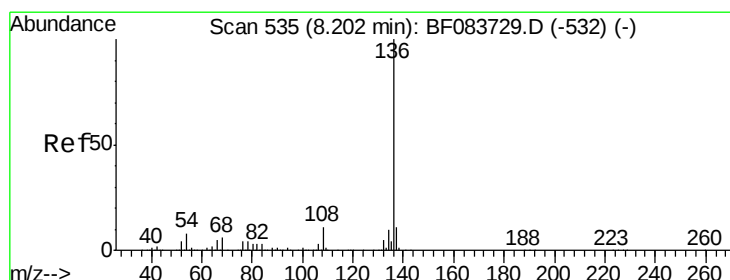
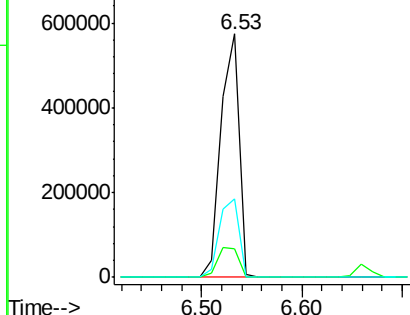
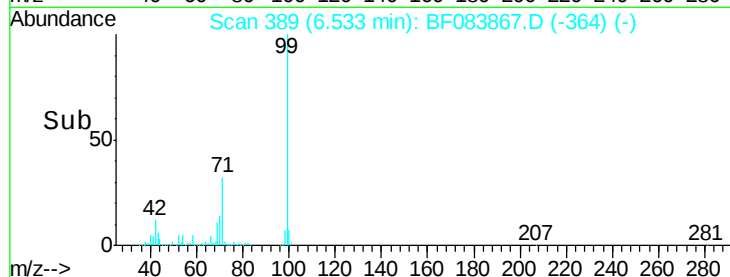
71 32.2 26.6 40.0



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: 8.18 min Scan# 533

Delta R.T. -0.03 min

Lab File: BF083867.D

Acq: 17 Dec 2015 4:57

Tgt Ion: 136 Resp: 473469

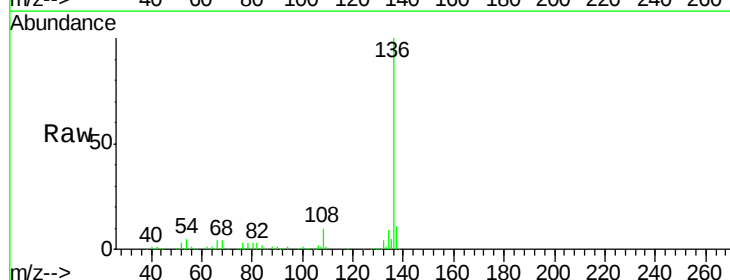
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 5.3 7.8 11.6#

68 4.4 5.7 8.5#

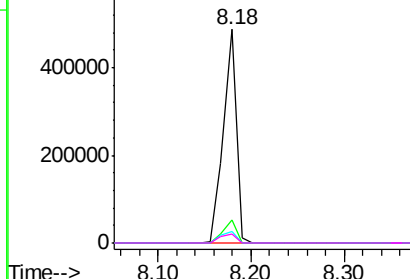
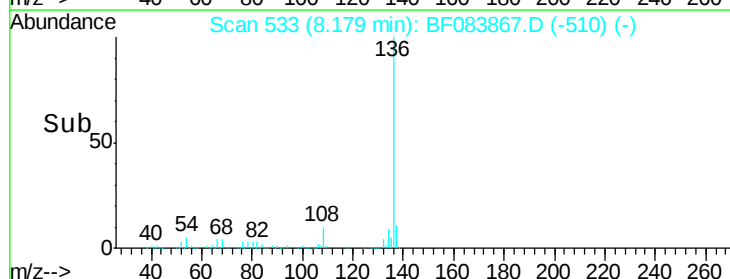


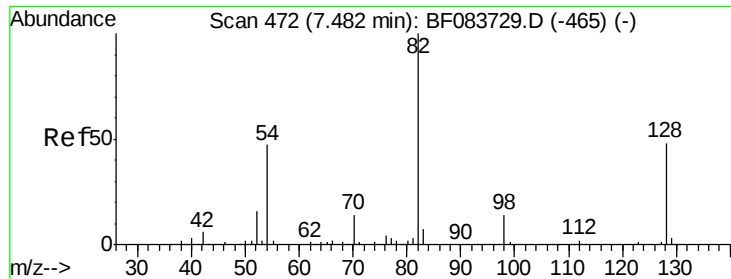
Abundance Ion 136.00 (135.70 to 136.70): E

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

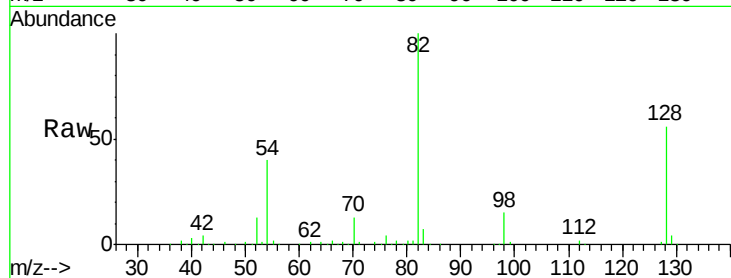




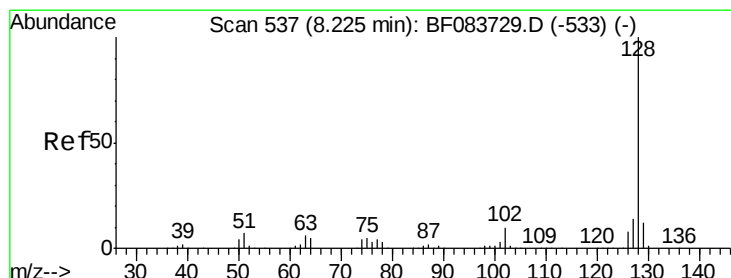
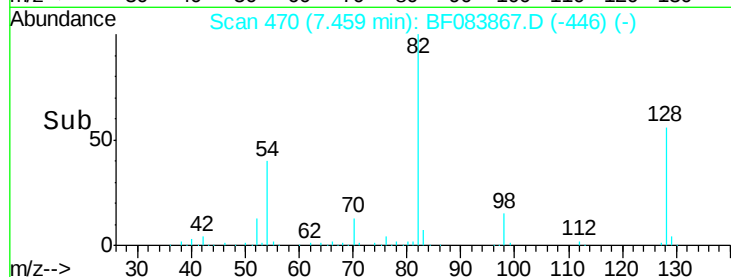
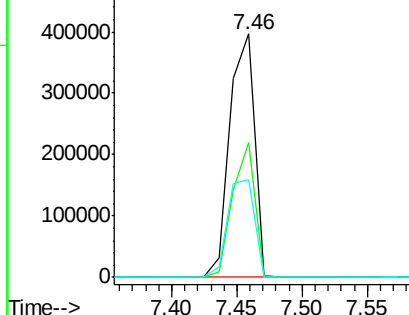
#23  
Nitrobenzene-d5  
Concen: 61.46 ng  
RT: 7.46 min Scan# 470  
Delta R.T. -0.02 min  
Lab File: BF083867.D  
Acq: 17 Dec 2015 4:57

Instrument :  
BNA\_F  
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COMPOSITE-A-20150872

Tot Ion: 82 Resp: 520097  
Ion Ratio Lower Upper  
82 100  
128 55.6 30.7 46.1#  
54 39.9 42.5 63.7#

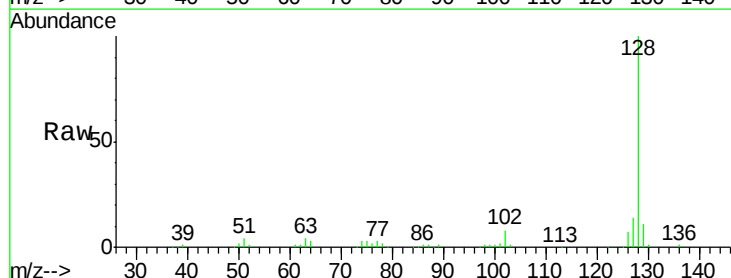


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0

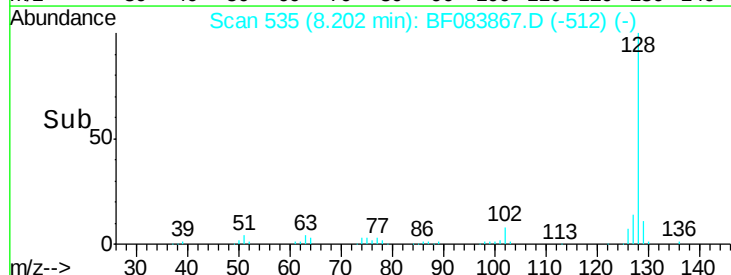
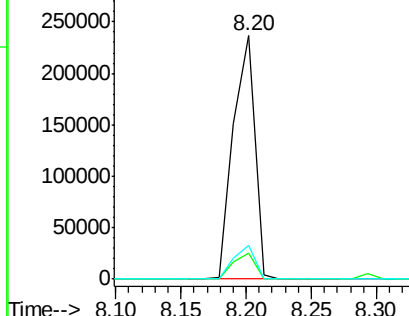


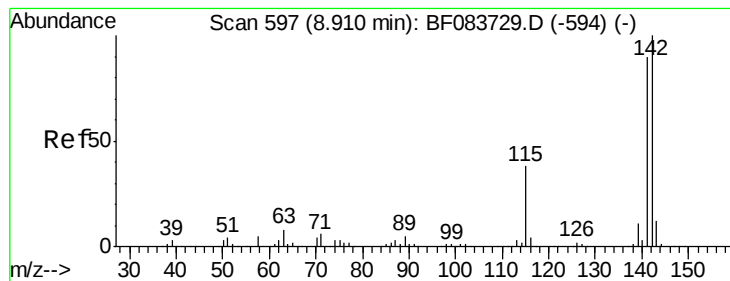
#31  
Naphthalene  
Concen: 11.04 ng  
RT: 8.20 min Scan# 535  
Delta R.T. -0.03 min  
Lab File: BF083867.D  
Acq: 17 Dec 2015 4:57

Tgt Ion: 128 Resp: 272470  
Ion Ratio Lower Upper  
128 100  
129 10.9 8.6 13.0  
127 13.6 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

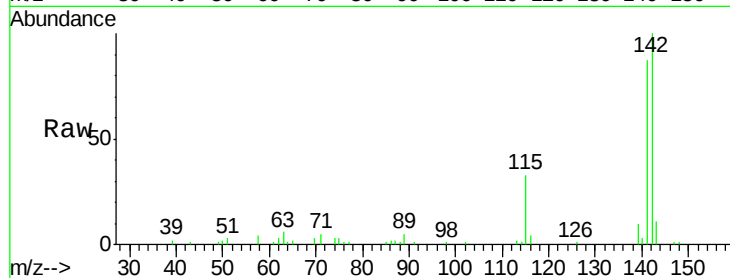




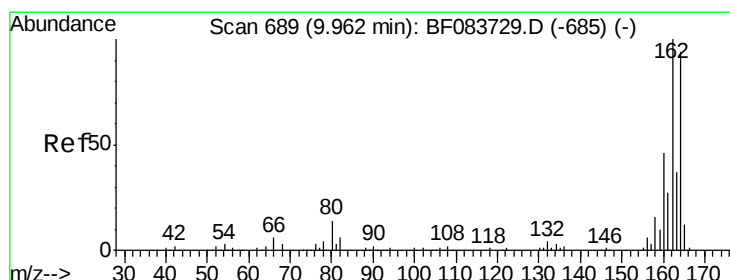
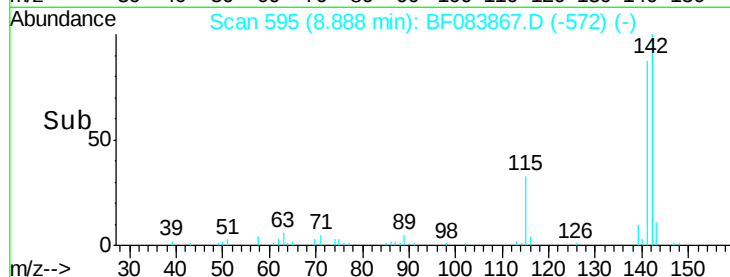
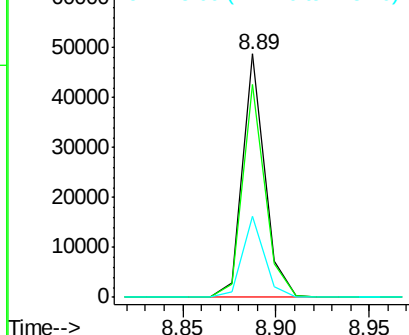
#37  
 2-Methylnaphthalene  
 Concen: 2.63 ng  
 RT: 8.89 min Scan# 595  
 Delta R.T. -0.03 min  
 Lab File: BF083867.D  
 Acq: 17 Dec 2015 4:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMPOSITE-A-20150872

Tot Ion:142 Resp: 40707  
 Ion Ratio Lower Upper  
 142 100  
 141 87.3 70.3 105.5  
 115 33.5 29.2 43.8

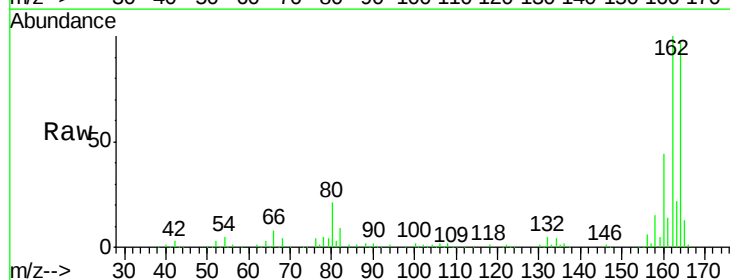


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

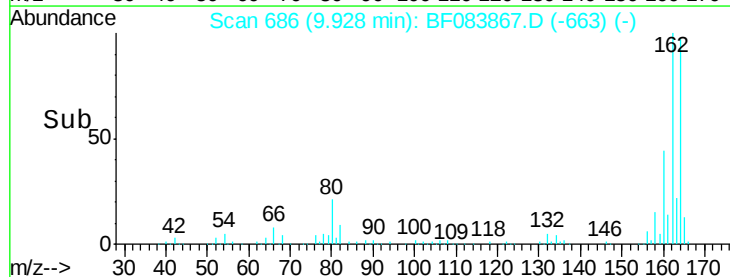
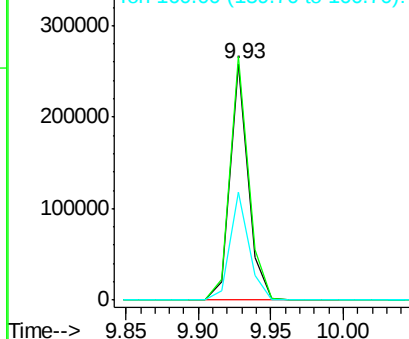


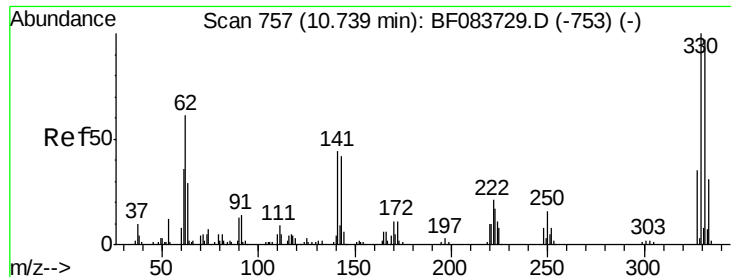
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.93 min Scan# 686  
 Delta R.T. -0.03 min  
 Lab File: BF083867.D  
 Acq: 17 Dec 2015 4:57

Tgt Ion:164 Resp: 224319  
 Ion Ratio Lower Upper  
 164 100  
 162 102.9 78.8 118.2  
 160 45.7 33.4 50.2



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

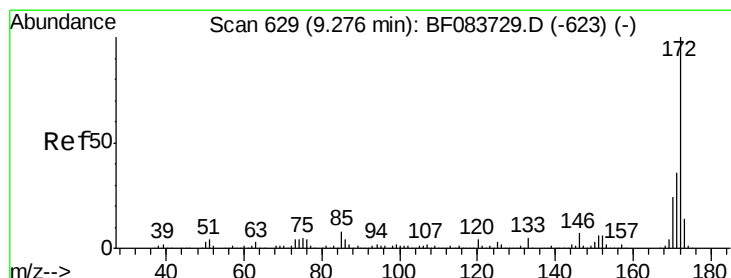
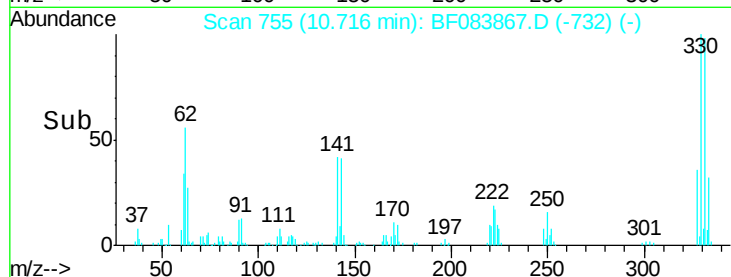
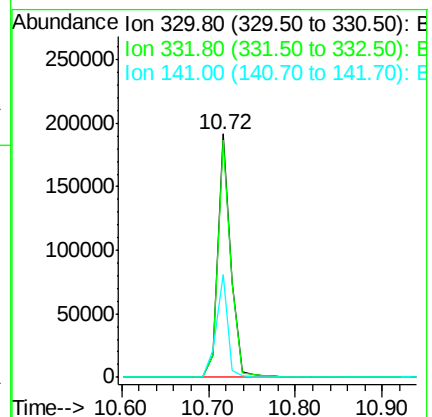
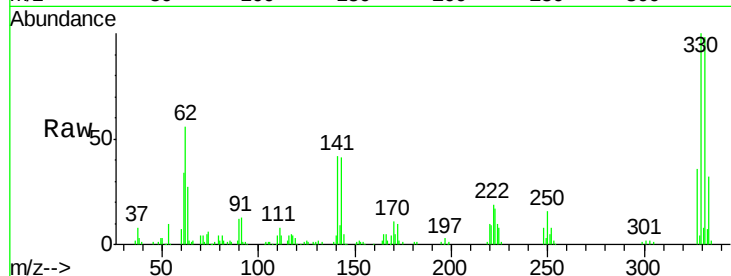




#41  
 2,4,6-Tribromophenol  
 Concen: 88.50 ng  
 RT: 10.72 min Scan# 755  
 Delta R.T. -0.03 min  
 Lab File: BF083867.D  
 Acq: 17 Dec 2015 4:57

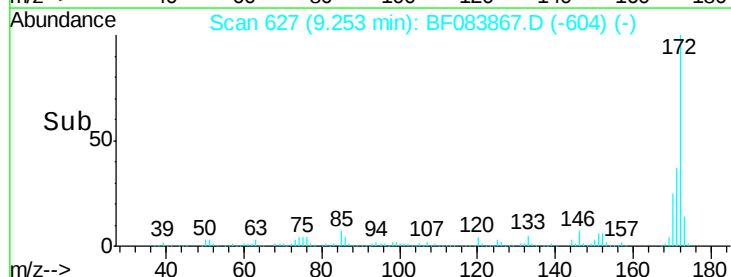
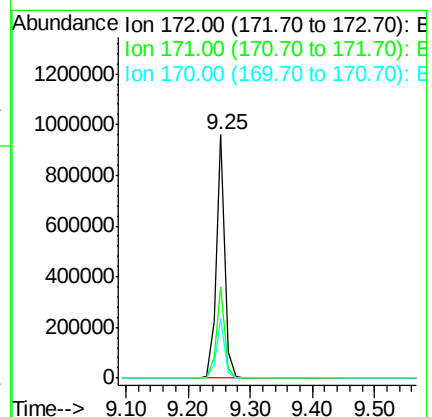
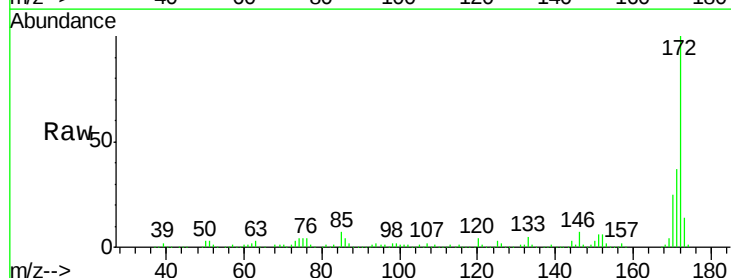
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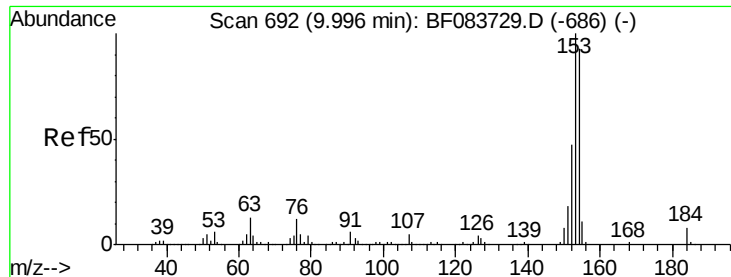
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.8  | 0.0   | 0.0#  |
| 141     | 37.4  | 0.0   | 0.0#  |



#44  
 2-Fluorobiphenyl  
 Concen: 52.72 ng  
 RT: 9.25 min Scan# 627  
 Delta R.T. -0.03 min  
 Lab File: BF083867.D  
 Acq: 17 Dec 2015 4:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.4  | 28.6  | 42.8  |
| 170     | 24.6  | 19.4  | 29.0  |





#51

Acenaphthene

Concen: 3.35 ng

RT: 9.96 min Scan# 689

Delta R.T. -0.03 min

Lab File: BF083867.D

Acq: 17 Dec 2015 4:57

Instrument :

BNA\_F

ClientSampleId :

COMPOSITE-A-20150872

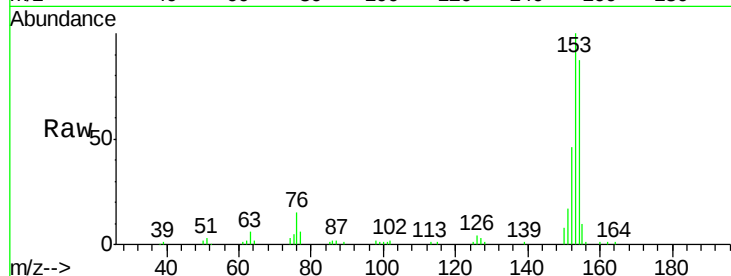
Tot Ion:154 Resp: 49937

Ion Ratio Lower Upper

154 100

153 114.8 91.4 137.0

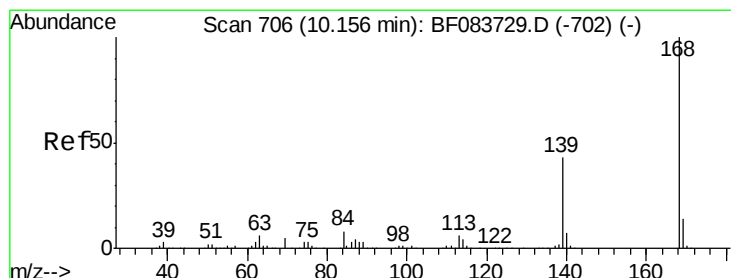
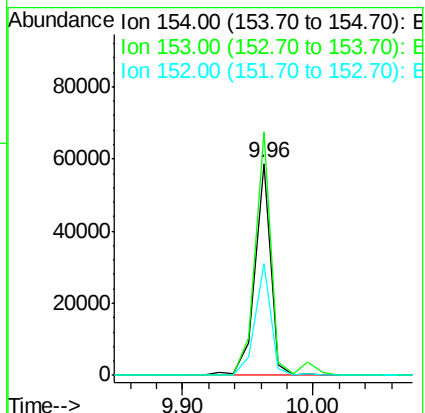
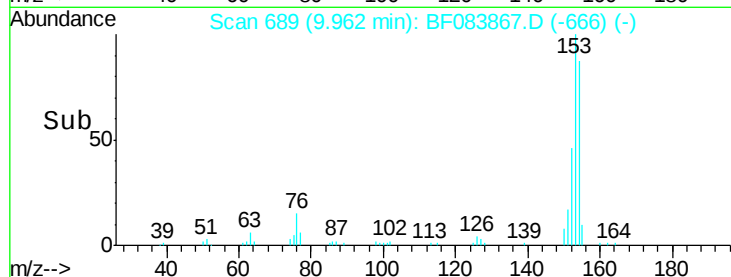
152 52.7 43.4 65.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.01 ng

RT: 10.13 min Scan# 704

Delta R.T. -0.03 min

Lab File: BF083867.D

Acq: 17 Dec 2015 4:57

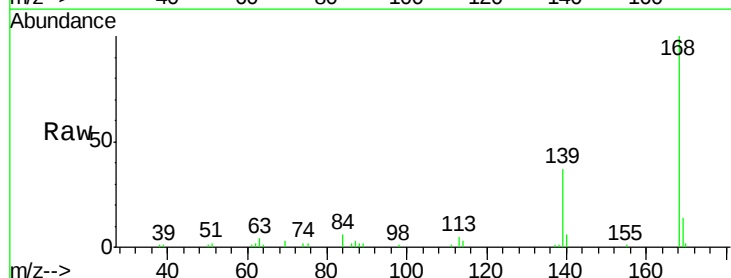
Tgt Ion:168 Resp: 39666

Ion Ratio Lower Upper

168 100

139 36.6 28.0 42.0

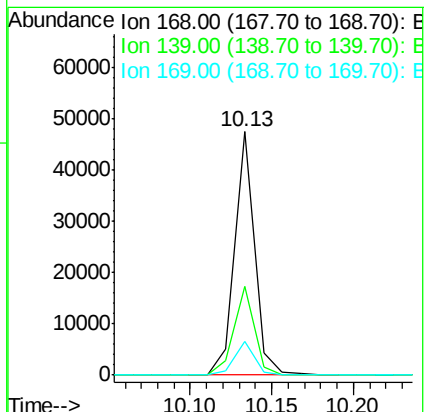
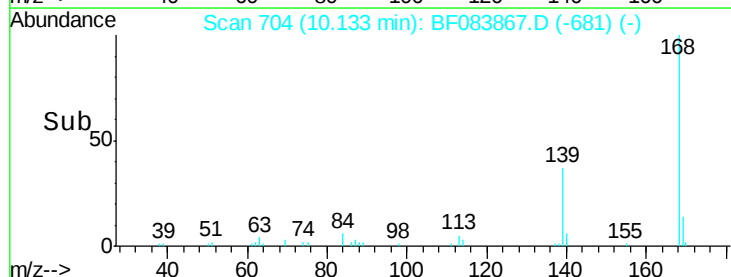
169 13.7 10.8 16.2

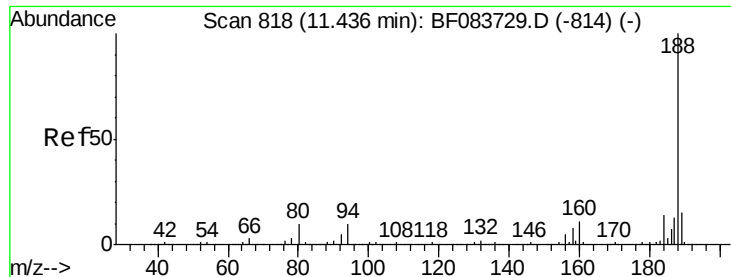


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

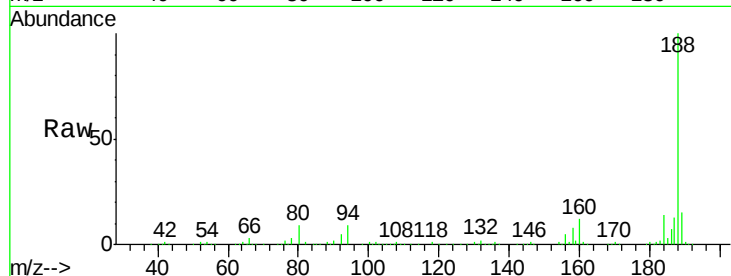




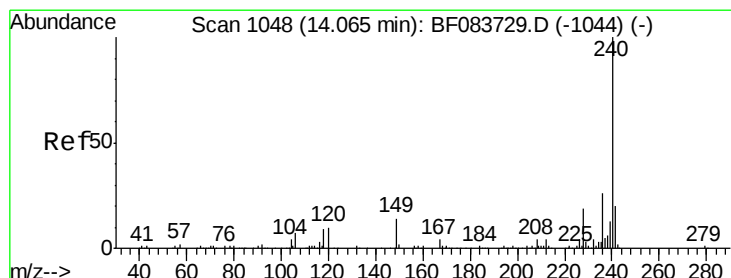
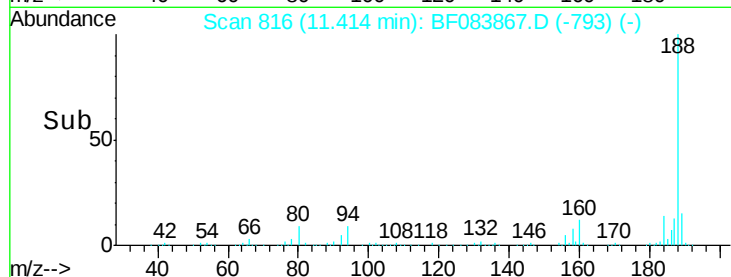
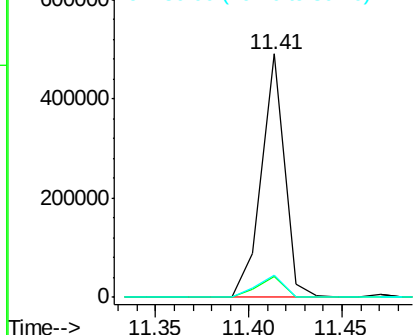
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.41 min Scan# 816  
Delta R.T. -0.03 min  
Lab File: BF083867.D  
Acq: 17 Dec 2015 4:57

Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSITE-A-20150872

Tot Ion:188 Resp: 416962  
Ion Ratio Lower Upper  
188 100  
94 8.8 9.4 14.2#  
80 9.3 10.6 16.0#

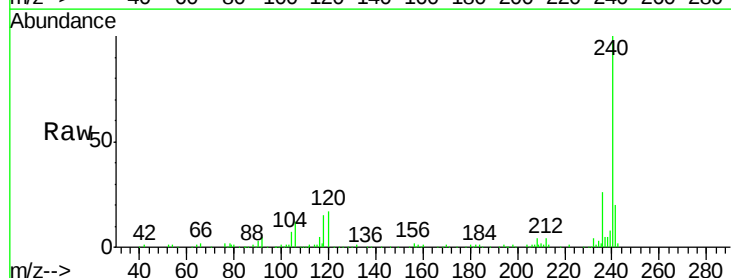


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

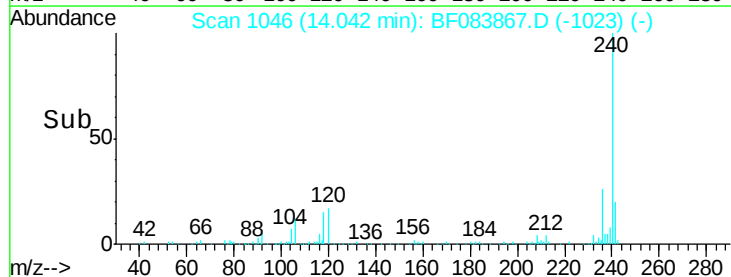
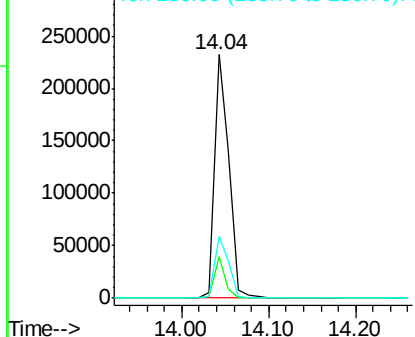


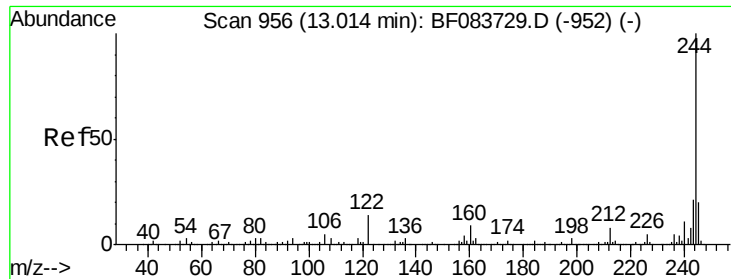
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.04 min Scan# 1046  
Delta R.T. -0.03 min  
Lab File: BF083867.D  
Acq: 17 Dec 2015 4:57

Tgt Ion:240 Resp: 270708  
Ion Ratio Lower Upper  
240 100  
120 17.2 8.1 12.1#  
236 25.5 20.8 31.2



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

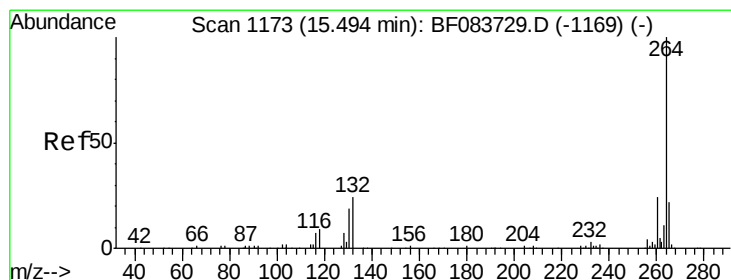
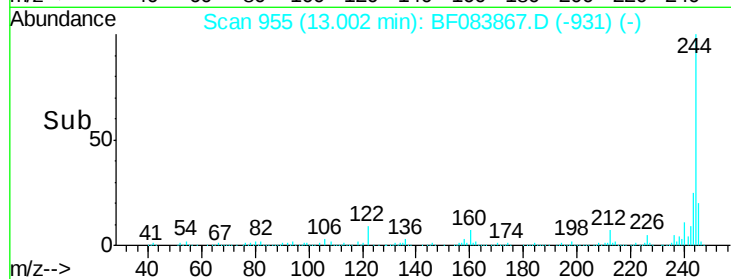
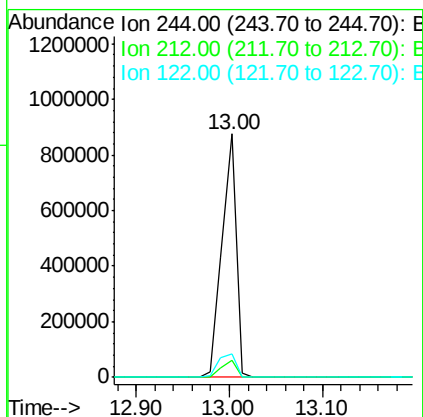
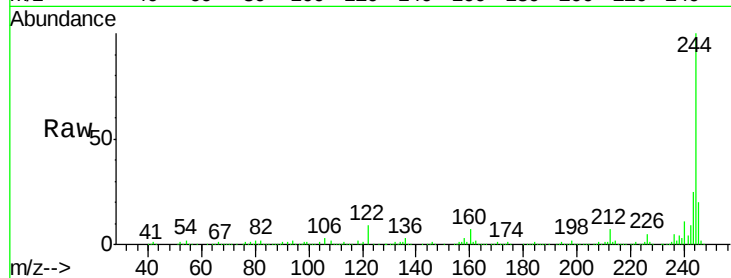




#78  
 Terphenyl-d14  
 Concen: 73.40 ng  
 RT: 13.00 min Scan# 955  
 Delta R.T. -0.02 min  
 Lab File: BF083867.D  
 Acq: 17 Dec 2015 4:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMPOSITE-A-20150872

Tot Ion:244 Resp: 923712  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 6.1 9.1  
 122 9.5 11.0 16.6#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.49 min Scan# 1173  
 Delta R.T. -0.01 min  
 Lab File: BF083867.D  
 Acq: 17 Dec 2015 4:57

Tgt Ion:264 Resp: 253691  
 Ion Ratio Lower Upper  
 264 100  
 260 23.5 19.4 29.0  
 265 21.1 17.8 26.6

