

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070815\  
 Data File : BF080386.D  
 Acq On : 8 Jul 2015 14:04  
 Operator : TP/UM  
 Sample : G2732-04DL 5X  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SDDL

Quant Time: Jul 09 12:30:40 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 09 01:25:24 2015  
 Response via : Initial Calibration

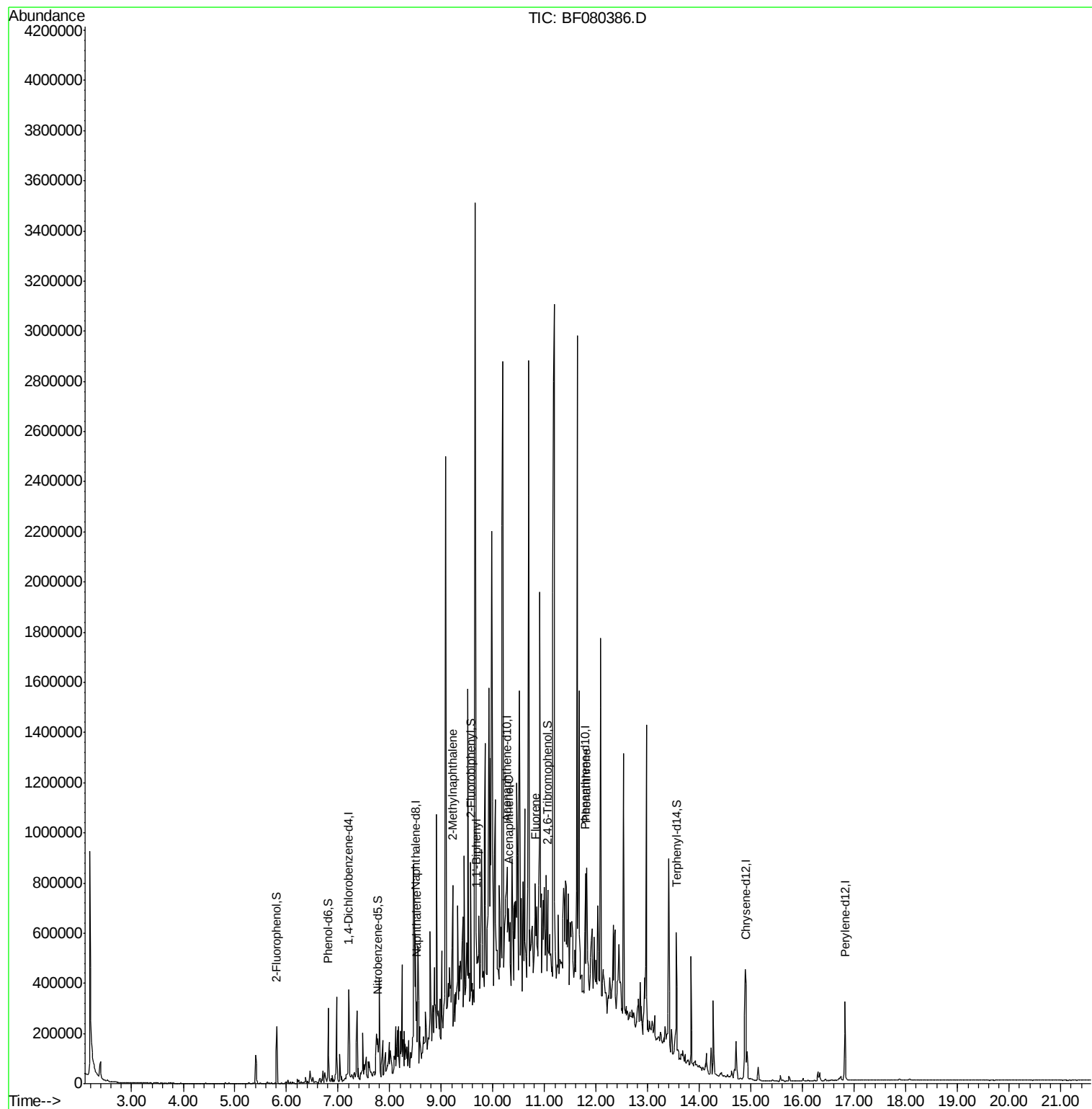
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.21  | 152  | 43294    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.50  | 136  | 171811   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.27 | 164  | 86334    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.79 | 188  | 165065   | 20.00 | ng    | 0.01     |
| 75) Chrysene-d12            | 14.90 | 240  | 205141   | 20.00 | ng    | 0.06     |
| 86) Perylene-d12            | 16.82 | 264  | 169004   | 20.00 | ng    | 0.06     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.81  | 112  | 72800    | 30.80 | ng    | 0.00     |
| 7) Phenol-d6                | 6.81  | 99   | 100621   | 32.11 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.77  | 82   | 57889    | 19.65 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.06 | 330  | 22569    | 24.98 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.57  | 172  | 135348   | 21.16 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.55 | 244  | 209131   | 23.78 | ng    | 0.03     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 31) Naphthalene             | 8.52  | 128  | 45108    | 5.12  | ng    | # 92     |
| 37) 2-Methylnaphthalene     | 9.22  | 142  | 192601   | 34.28 | ng    | 99       |
| 45) 1,1'-Biphenyl           | 9.68  | 154  | 43849    | 5.72  | ng    | 99       |
| 51) Acenaphthene            | 10.30 | 154  | 19570    | 3.36  | ng    | # 50     |
| 57) Fluorene                | 10.82 | 166  | 45275    | 6.35  | ng    | # 89     |
| 70) Phenanthrene            | 11.81 | 178  | 152603   | 15.41 | ng    | 97       |

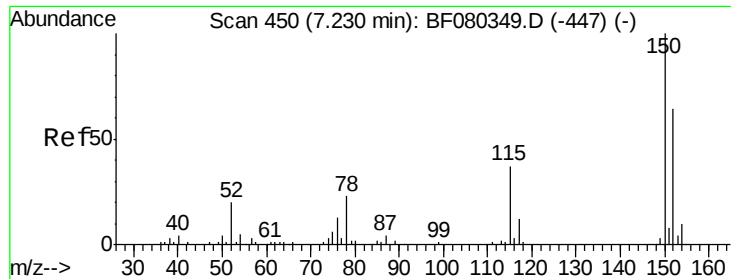
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 09 01:25:24 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.21 min Scan# 448

Delta R.T. -0.00 min

Lab File: BF080386.D

Acq: 8 Jul 2015 14:04

Instrument :

BNA\_F

ClientSampleId :

SDDL

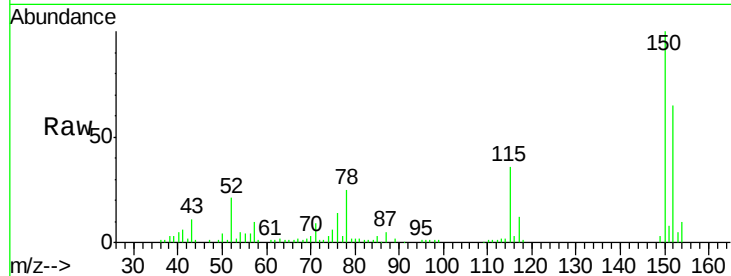
Tgt Ion:152 Resp: 43294

Ion Ratio Lower Upper

152 100

150 154.8 124.7 187.1

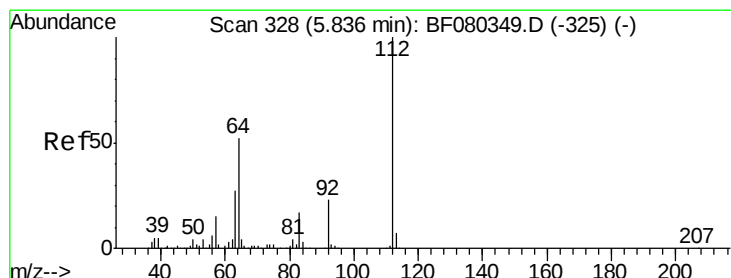
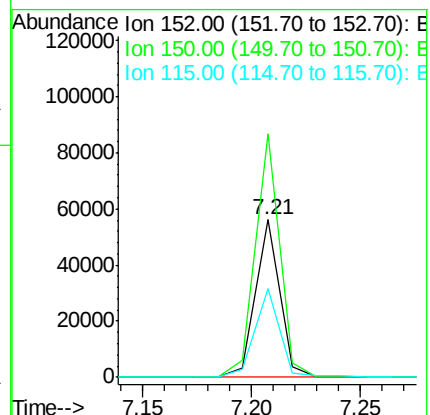
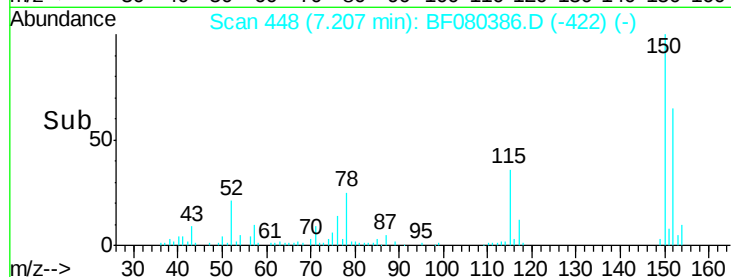
115 56.3 45.7 68.5



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: 30.80 ng

RT: 5.81 min Scan# 326

Delta R.T. -0.00 min

Lab File: BF080386.D

Acq: 8 Jul 2015 14:04

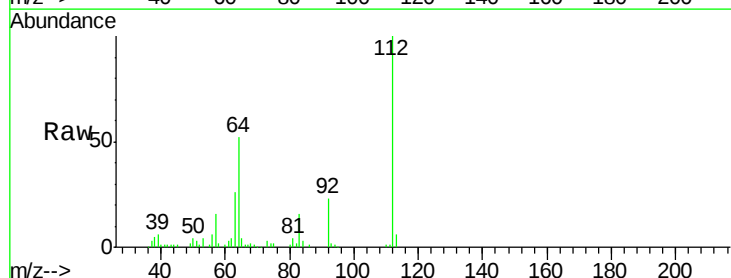
Tgt Ion:112 Resp: 72800

Ion Ratio Lower Upper

112 100

64 51.5 41.8 62.6

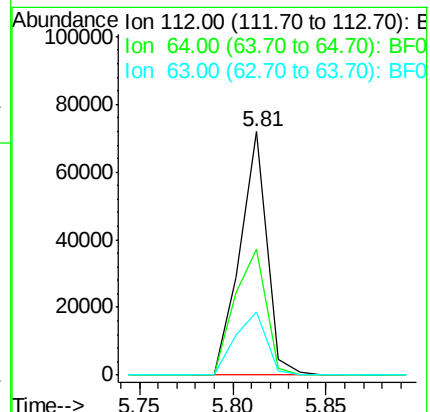
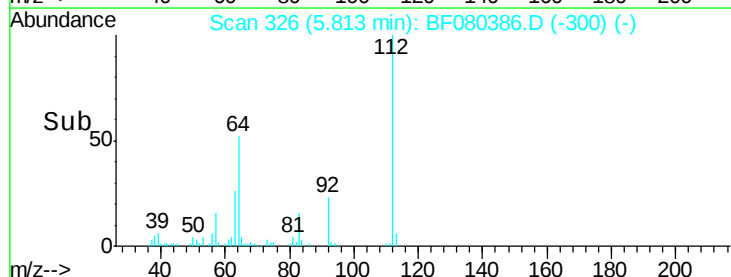
63 25.9 21.5 32.3

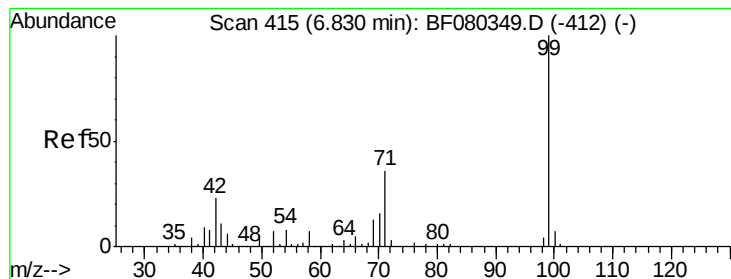


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 32.11 ng

RT: 6.81 min Scan# 413

Delta R.T. -0.01 min

Lab File: BF080386.D

Acq: 8 Jul 2015 14:04

Instrument :

BNA\_F

ClientSampleId :

SDDL

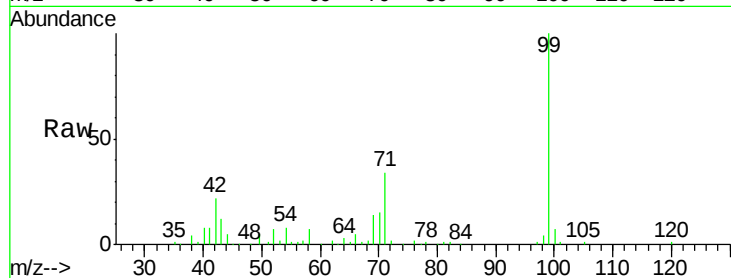
Tgt Ion: 99 Resp: 100621

Ion Ratio Lower Upper

99 100

42 22.2 18.5 27.7

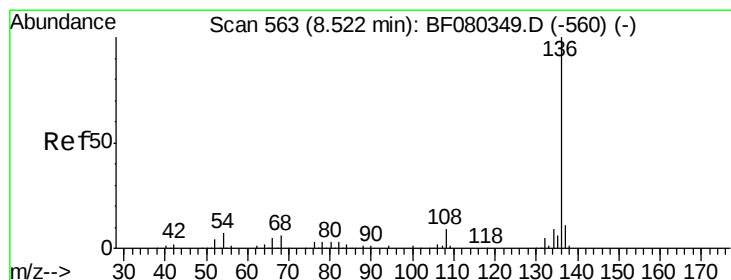
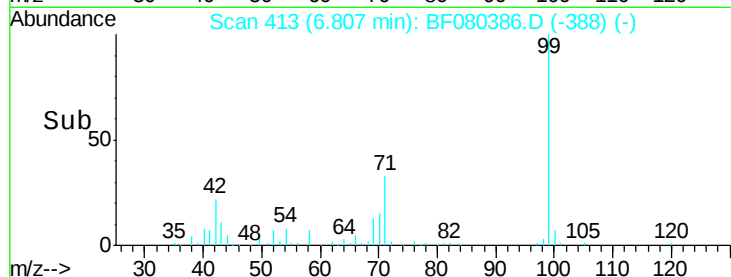
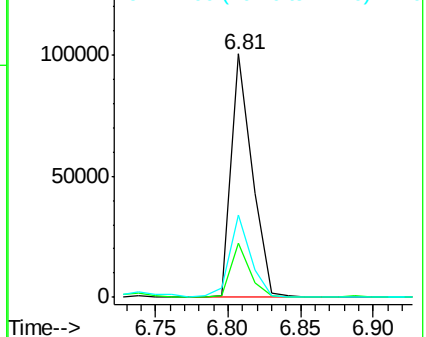
71 33.6 28.5 42.7



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.50 min Scan# 561

Delta R.T. -0.00 min

Lab File: BF080386.D

Acq: 8 Jul 2015 14:04

Tgt Ion: 136 Resp: 171811

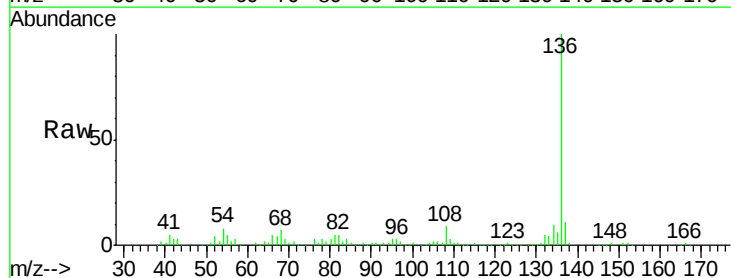
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 7.8 5.8 8.8

68 6.9 4.6 6.8#

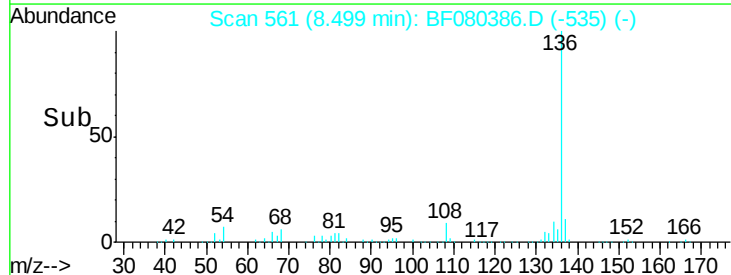
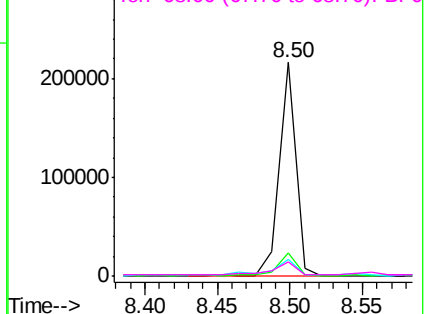


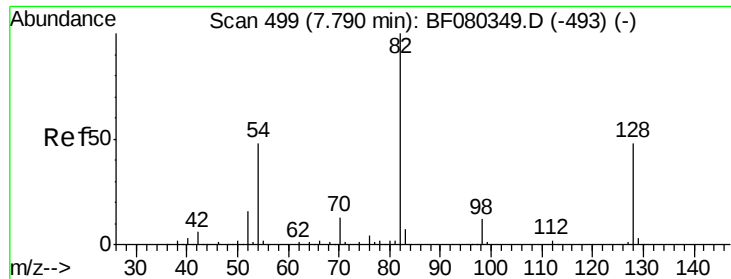
Abundance Ion 136.00 (135.70 to 136.70): E

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

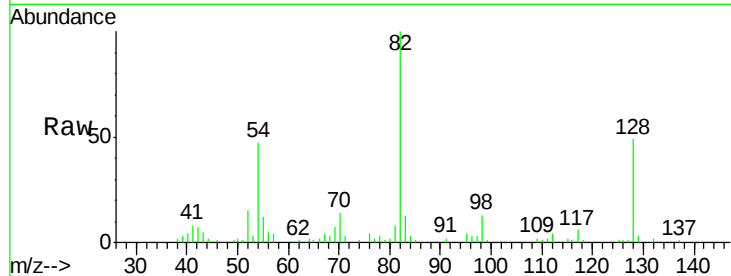




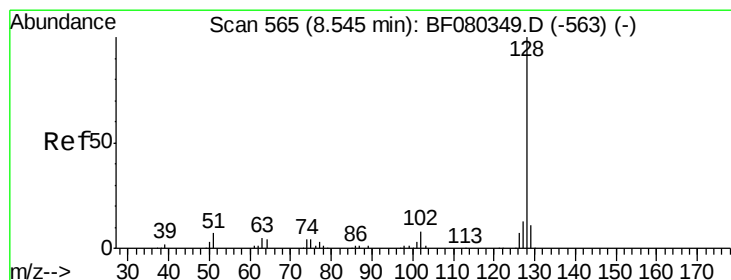
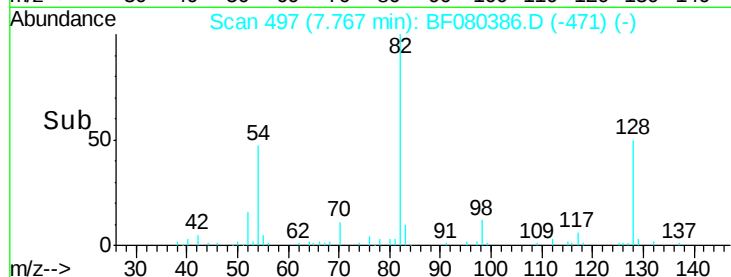
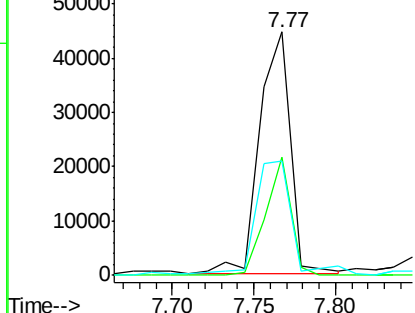
#23  
 Nitrobenzene-d5  
 Concen: 19.65 ng  
 RT: 7.77 min Scan# 497  
 Delta R.T. -0.00 min  
 Lab File: BF080386.D  
 Acq: 8 Jul 2015 14:04

Instrument :  
 BNA\_F  
 ClientSampled :  
 SDDL

Tgt Ion: 82 Resp: 57889  
 Ion Ratio Lower Upper  
 82 100  
 128 48.6 38.4 57.6  
 54 46.9 38.2 57.2

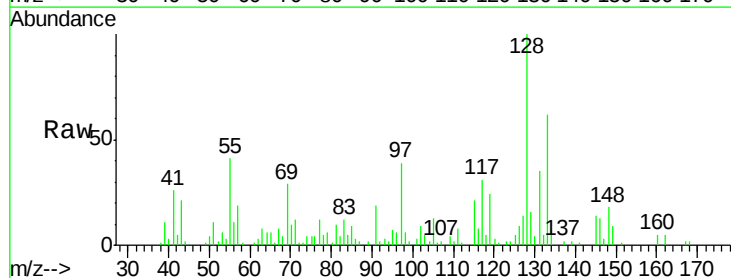


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

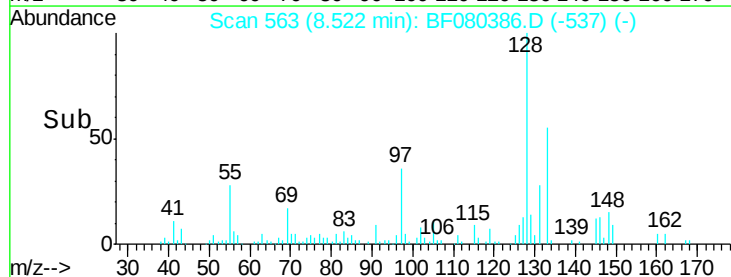
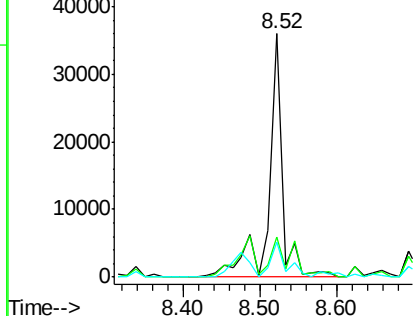


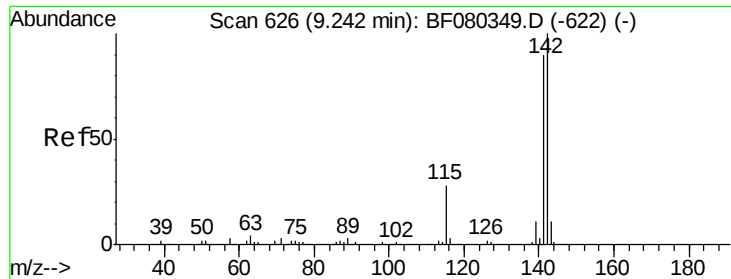
#31  
 Naphthalene  
 Concen: 5.12 ng  
 RT: 8.52 min Scan# 563  
 Delta R.T. -0.00 min  
 Lab File: BF080386.D  
 Acq: 8 Jul 2015 14:04

Tgt Ion: 128 Resp: 45108  
 Ion Ratio Lower Upper  
 128 100  
 129 16.2 8.8 13.2#  
 127 14.1 10.4 15.6



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

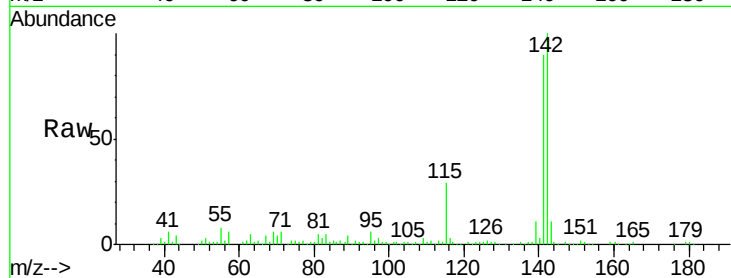




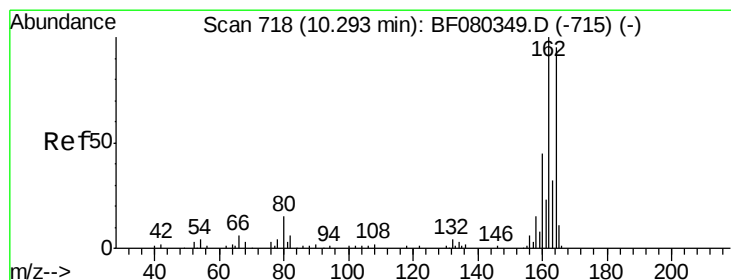
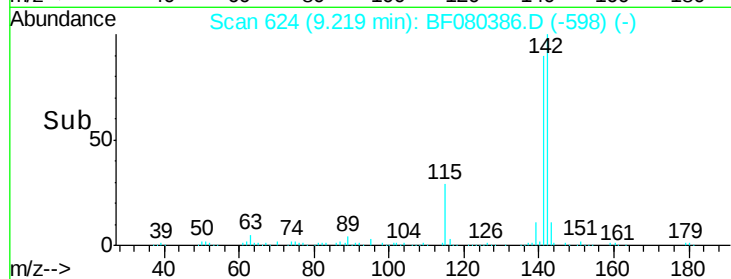
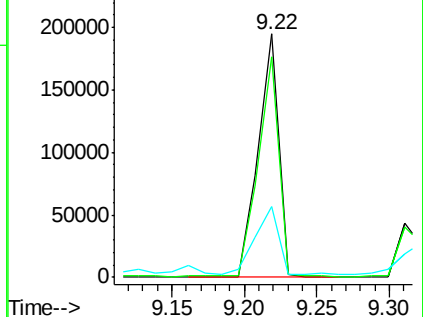
#37  
2-Methylnaphthalene  
Concen: 34.28 ng  
RT: 9.22 min Scan# 624  
Delta R.T. -0.00 min  
Lab File: BF080386.D  
Acq: 8 Jul 2015 14:04

Instrument :  
BNA\_F  
ClientSampleId :  
SDDL

Tgt Ion:142 Resp: 192601  
Ion Ratio Lower Upper  
142 100  
141 90.4 71.8 107.8  
115 29.2 22.6 34.0

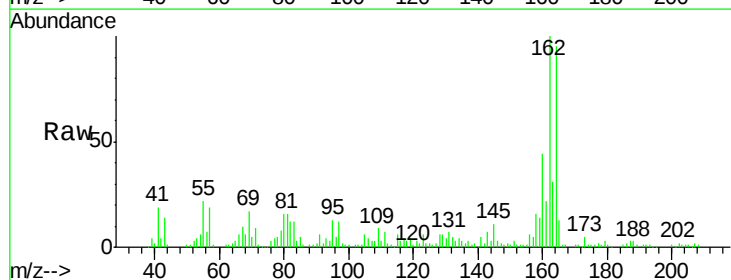


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

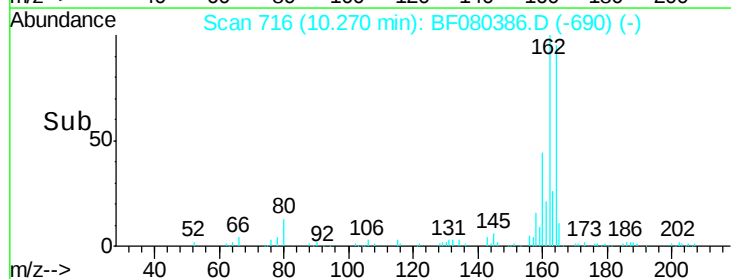
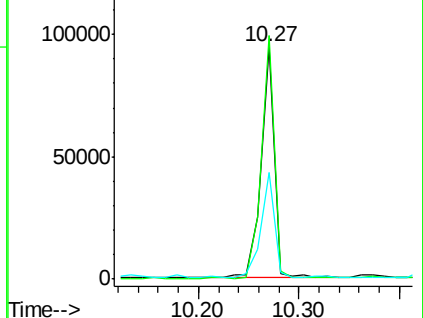


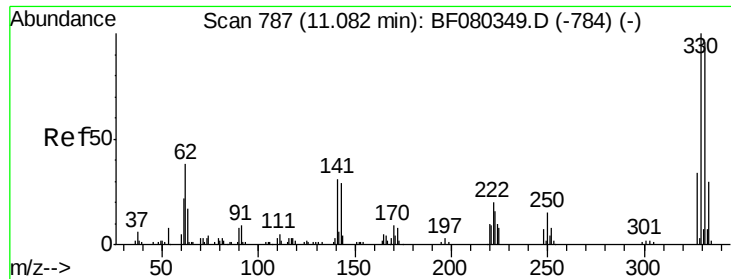
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 10.27 min Scan# 716  
Delta R.T. -0.00 min  
Lab File: BF080386.D  
Acq: 8 Jul 2015 14:04

Tgt Ion:164 Resp: 86334  
Ion Ratio Lower Upper  
164 100  
162 104.8 84.5 126.7  
160 46.1 37.7 56.5



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

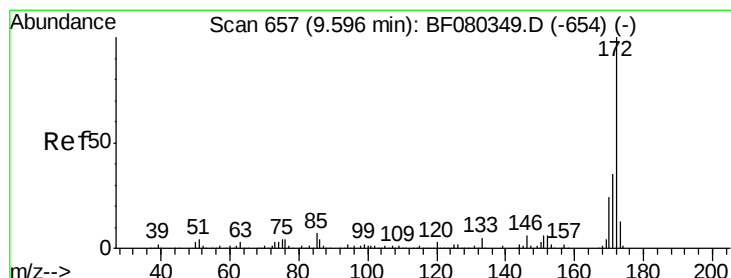
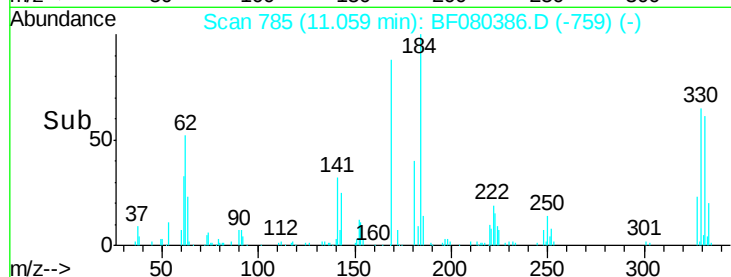
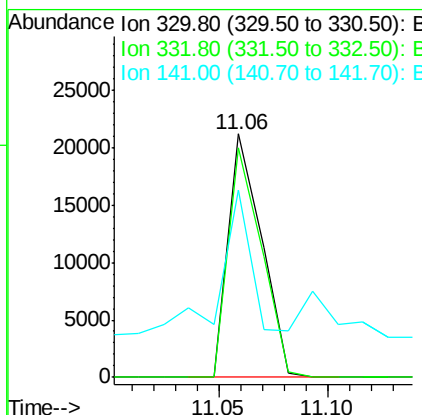
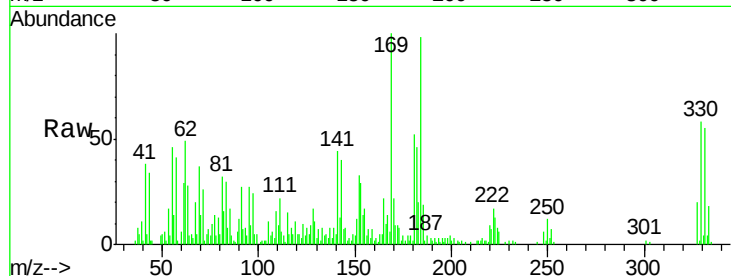




#41  
 2,4,6-Tribromophenol  
 Concen: 24.98 ng  
 RT: 11.06 min Scan# 785  
 Delta R.T. -0.00 min  
 Lab File: BF080386.D  
 Acq: 8 Jul 2015 14:04

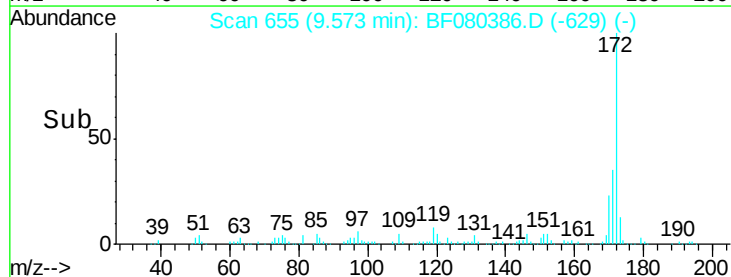
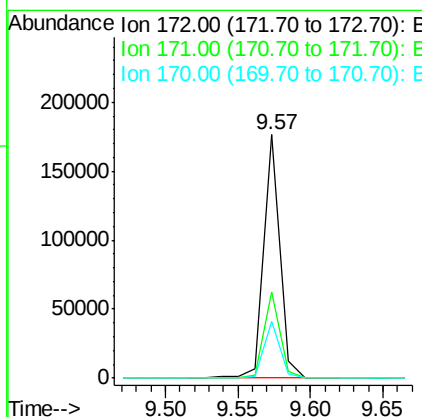
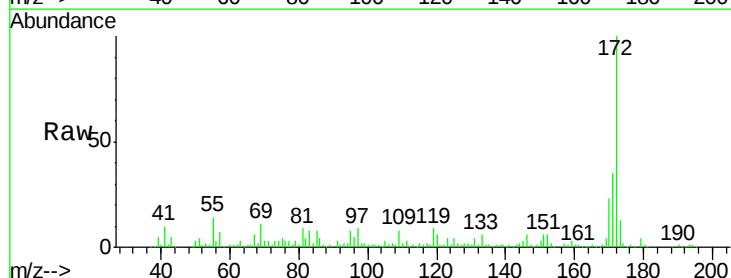
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SDDL

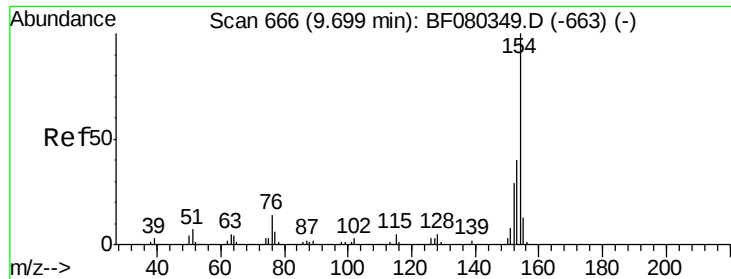
Tgt Ion:330 Resp: 22569  
 Ion Ratio Lower Upper  
 330 100  
 332 94.4 77.0 115.4  
 141 51.3 29.6 44.4#



#44  
 2-Fluorobiphenyl  
 Concen: 21.16 ng  
 RT: 9.57 min Scan# 655  
 Delta R.T. -0.00 min  
 Lab File: BF080386.D  
 Acq: 8 Jul 2015 14:04

Tgt Ion:172 Resp: 135348  
 Ion Ratio Lower Upper  
 172 100  
 171 35.2 28.3 42.5  
 170 23.5 19.1 28.7

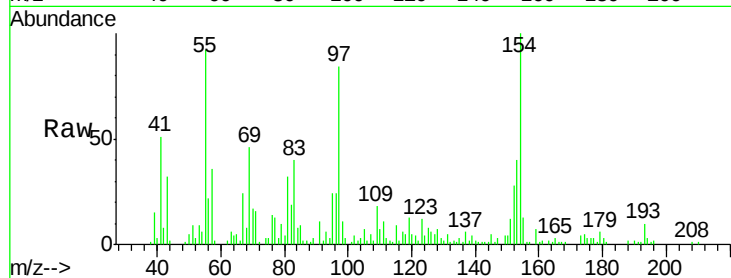




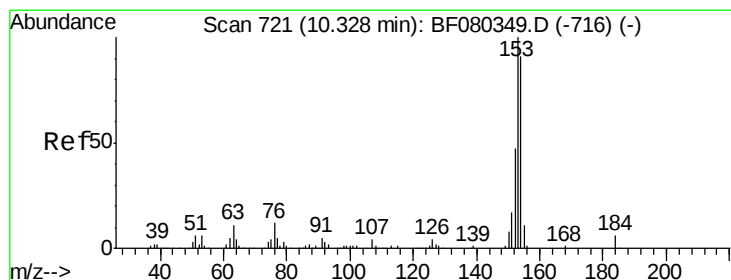
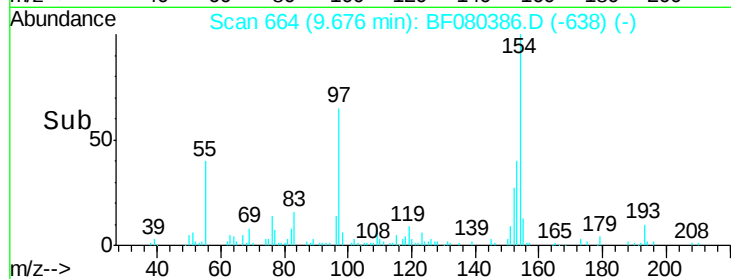
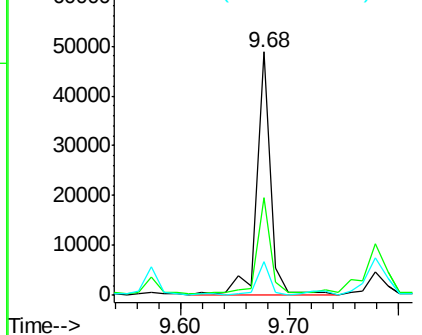
#45  
 1,1'-Biphenyl  
 Concen: 5.72 ng  
 RT: 9.68 min Scan# 664  
 Delta R.T. -0.00 min  
 Lab File: BF080386.D  
 Acq: 8 Jul 2015 14:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SDDL

Tgt Ion:154 Resp: 43849  
 Ion Ratio Lower Upper  
 154 100  
 153 40.4 19.8 59.8  
 76 13.8 0.0 33.6

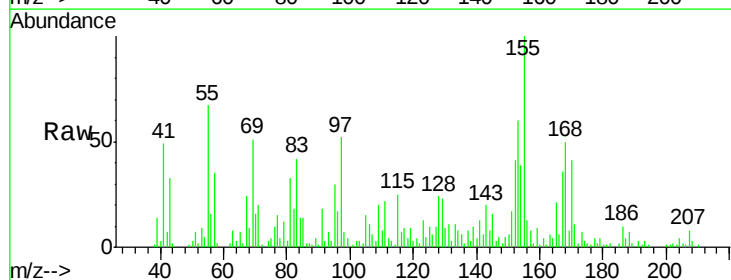


Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): BF0

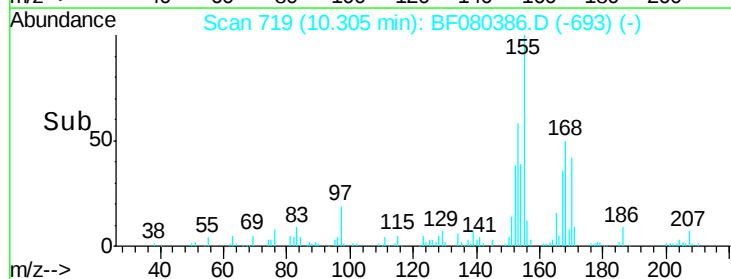
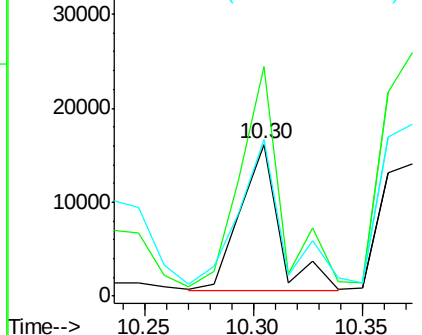


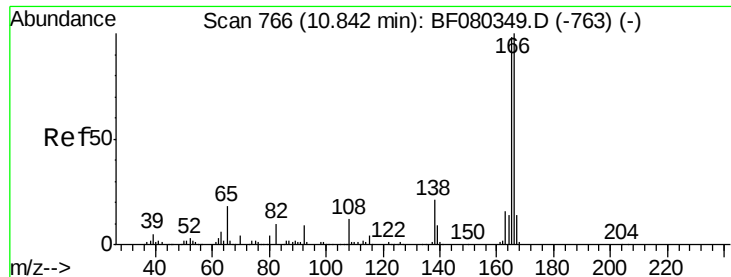
#51  
 Acenaphthene  
 Concen: 3.36 ng  
 RT: 10.30 min Scan# 719  
 Delta R.T. -0.00 min  
 Lab File: BF080386.D  
 Acq: 8 Jul 2015 14:04

Tgt Ion:154 Resp: 19570  
 Ion Ratio Lower Upper  
 154 100  
 153 151.5 88.1 132.1#  
 152 103.5 41.8 62.6#



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

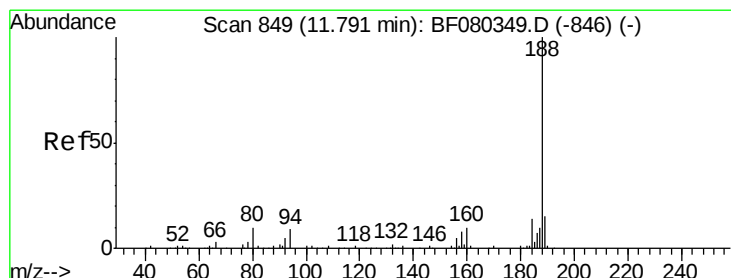
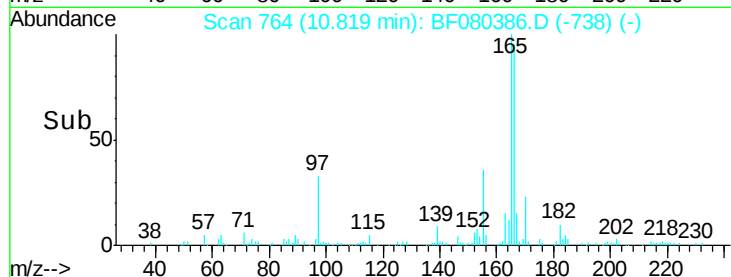
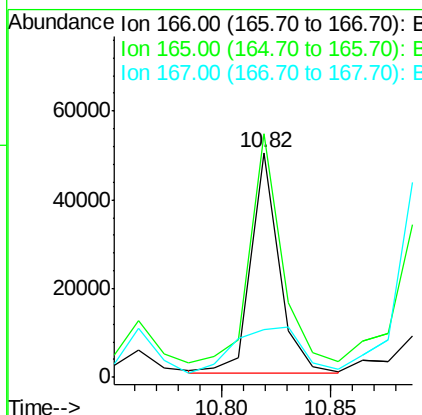
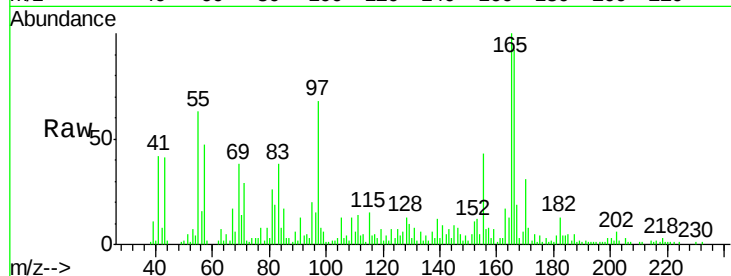




#57  
**Fluorene**  
 Concen: 6.35 ng  
 RT: 10.82 min Scan# 764  
 Delta R.T. -0.00 min  
 Lab File: BF080386.D  
 Acq: 8 Jul 2015 14:04

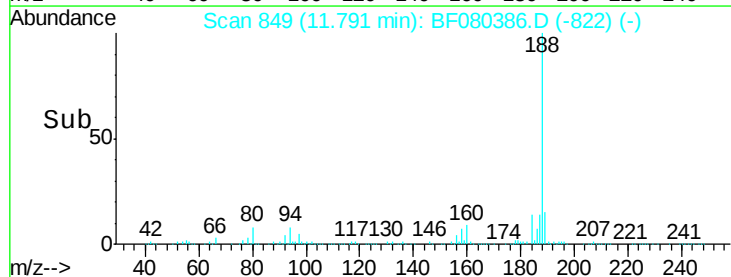
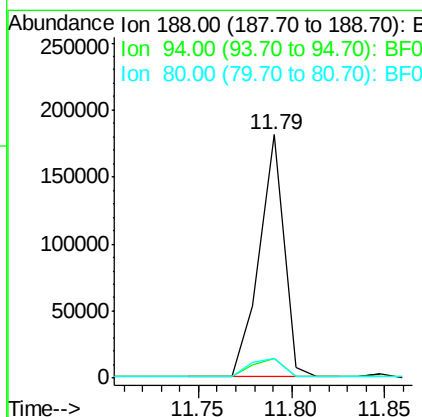
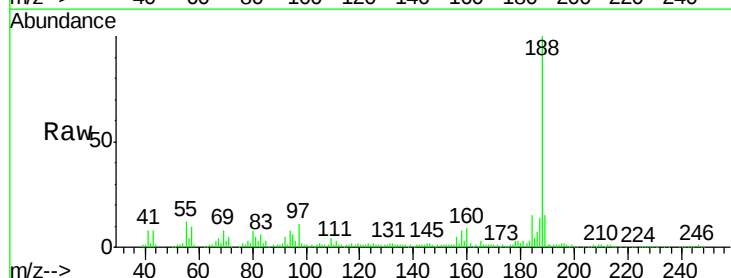
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SDDL

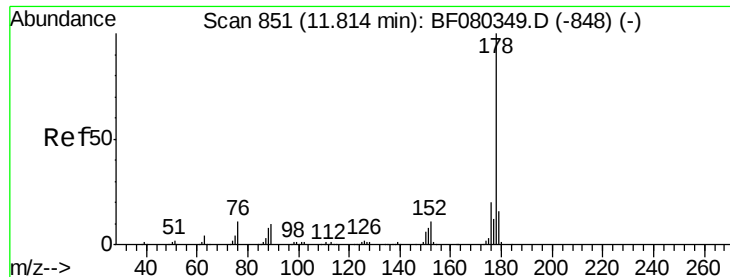
Tgt Ion:166 Resp: 45275  
 Ion Ratio Lower Upper  
 166 100  
 165 108.2 78.6 117.8  
 167 21.1 10.8 16.2#



#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 11.79 min Scan# 849  
 Delta R.T. 0.01 min  
 Lab File: BF080386.D  
 Acq: 8 Jul 2015 14:04

Tgt Ion:188 Resp: 165065  
 Ion Ratio Lower Upper  
 188 100  
 94 8.2 7.5 11.3  
 80 8.3 8.3 12.5#

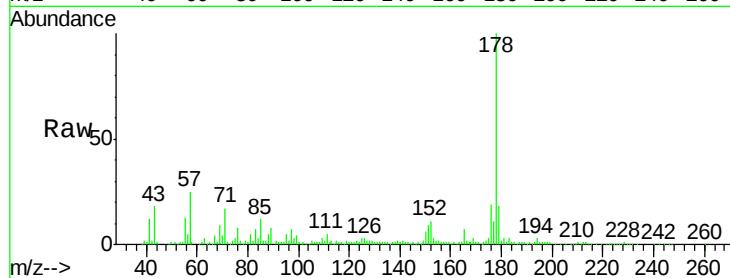




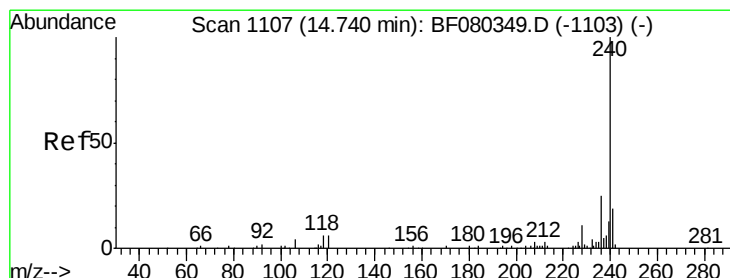
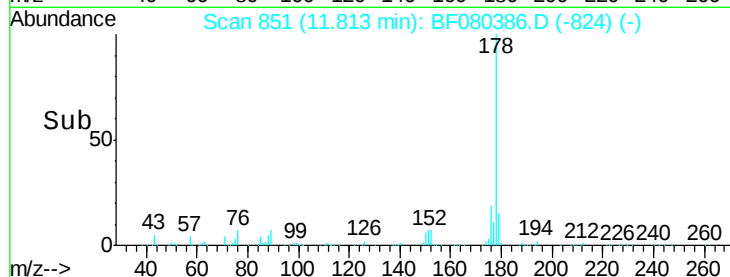
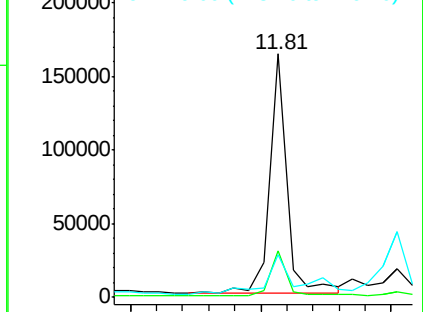
#70  
Phenanthrene  
Concen: 15.41 ng  
RT: 11.81 min Scan# 851  
Delta R.T. 0.01 min  
Lab File: BF080386.D  
Acq: 8 Jul 2015 14:04

Instrument :  
BNA\_F  
ClientSampleId :  
SDDL

Tgt Ion:178 Resp: 152603  
Ion Ratio Lower Upper  
178 100  
176 19.3 16.1 24.1  
179 17.6 12.6 18.8

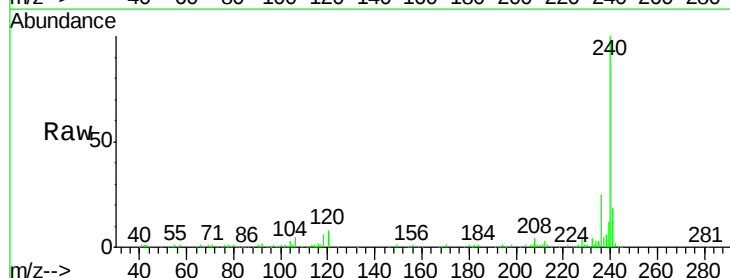


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

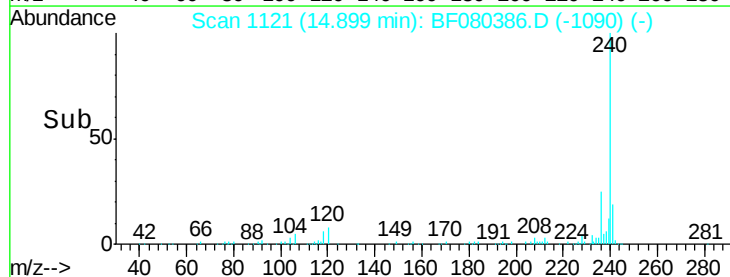
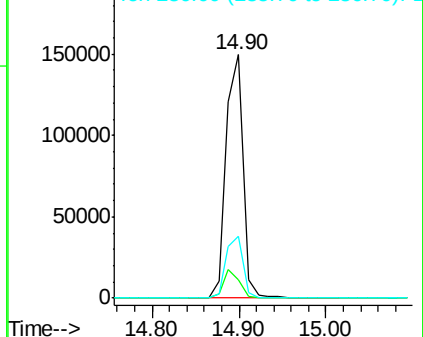


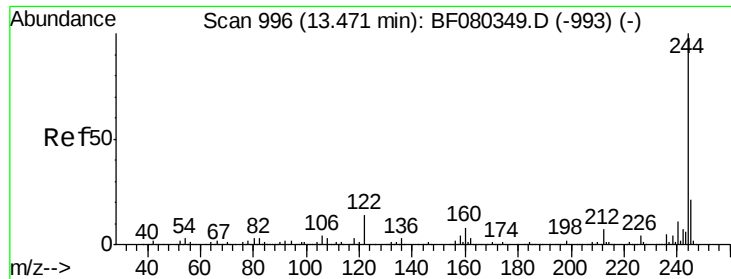
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.90 min Scan# 1121  
Delta R.T. 0.06 min  
Lab File: BF080386.D  
Acq: 8 Jul 2015 14:04

Tgt Ion:240 Resp: 205141  
Ion Ratio Lower Upper  
240 100  
120 7.5 5.1 7.7  
236 25.3 20.4 30.6



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

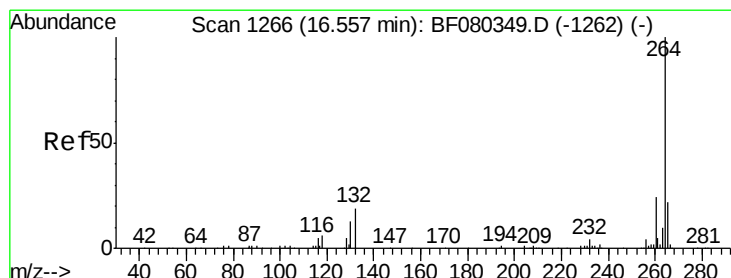
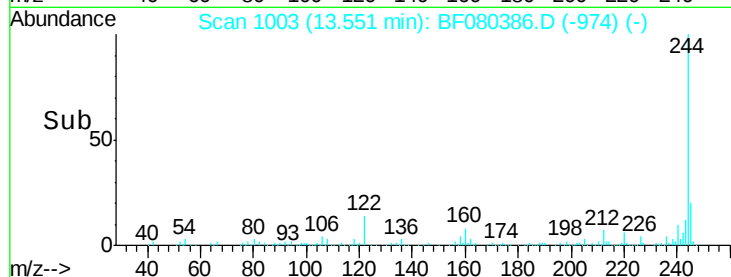
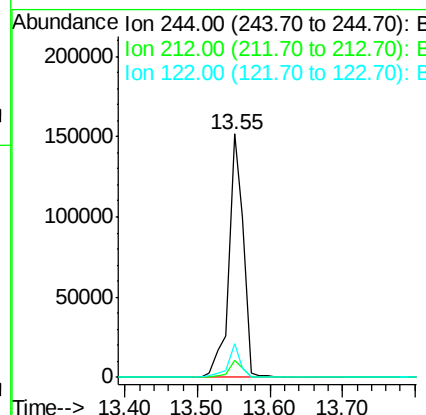
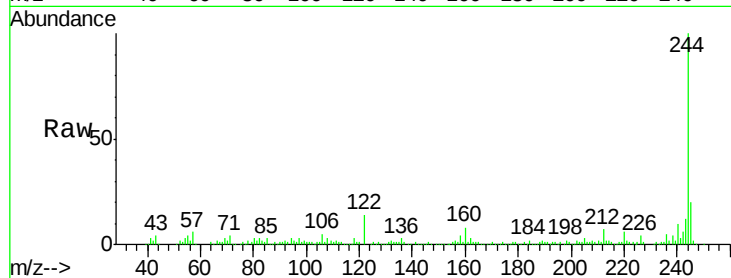




#78  
 Terphenyl-d14  
 Concen: 23.78 ng  
 RT: 13.55 min Scan# 1003  
 Delta R.T. 0.03 min  
 Lab File: BF080386.D  
 Acq: 8 Jul 2015 14:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SDDL

Tgt Ion:244 Resp: 209131  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.8 8.8  
 122 13.7 11.1 16.7



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 16.82 min Scan# 1289  
 Delta R.T. 0.06 min  
 Lab File: BF080386.D  
 Acq: 8 Jul 2015 14:04

Tgt Ion:264 Resp: 169004  
 Ion Ratio Lower Upper  
 264 100  
 260 23.7 19.2 28.8  
 265 21.8 17.6 26.4

