

Data Path : Z:\HPCHEM1\BNA F\Data\BF021216\  
 Data File : BF085048.D  
 Acq On : 12 Feb 2016 8:21  
 Operator : SJ/IZ  
 Sample : H1373-01DL 100X  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 12 09:47:41 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 10 13:28:51 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.60  | 152  | 137774   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 7.90  | 136  | 604334   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.64  | 164  | 279954   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.12 | 188  | 466070   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 13.75 | 240  | 293704   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.11 | 264  | 276590   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.22  | 112  | 3241     | 0.37  | ng    | 0.02     |
| 7) Phenol-d6                | 6.28  | 99   | 2836     | 0.26  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.18  | 82   | 9981     | 0.93  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.44 | 330  | 394      | 0.13  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 8.97  | 172  | 22357    | -1.00 | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.71 | 244  | 11157    | 0.86  | ng    | -0.02    |

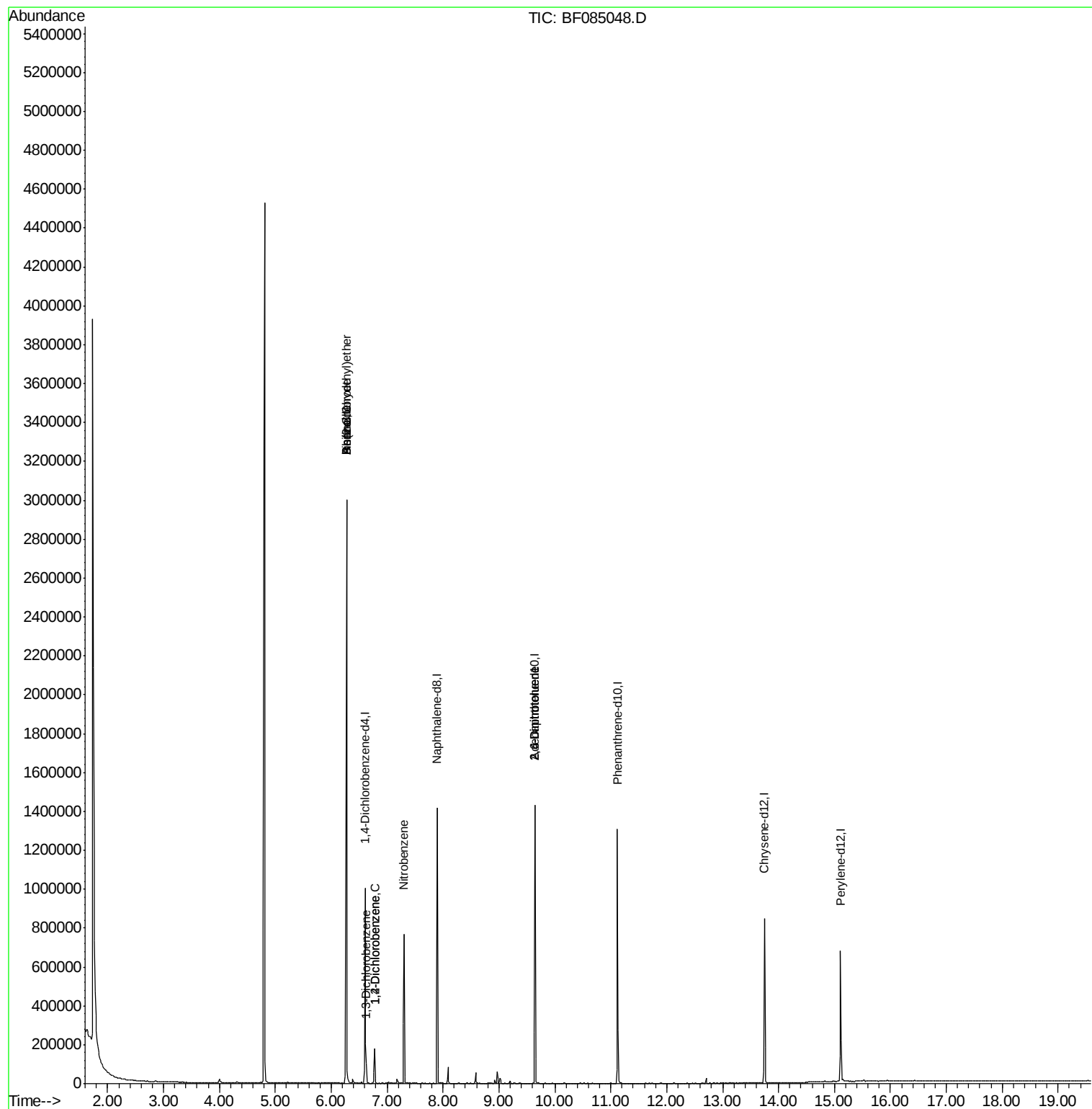
| Target Compounds            | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-----------------------------|------|------|----------|--------|-------|--------|
| 6) Aniline                  | 6.27 | 93   | 1169253  | 87.14  | ng    | # 79   |
| 9) Benzaldehyde             | 6.27 | 77   | 14015    | 2.16   | ng    | # 1    |
| 10) Phenol                  | 6.27 | 94   | 84021    | 6.84   | ng    | # 1    |
| 11) bis(2-Chloroethyl)ether | 6.27 | 93   | 1169253  | 122.06 | ng    | # 30   |
| 12) 1,3-Dichlorobenzene     | 6.63 | 146  | 27840    | 2.63   | ng    | 97     |
| 13) 1,4-Dichlorobenzene     | 6.78 | 146  | 39494    | 3.73   | ng    | 96     |
| 14) 1,2-Dichlorobenzene     | 6.78 | 146  | 39494    | 4.01   | ng    | 99     |
| 24) Nitrobenzene            | 7.30 | 77   | 187204   | 16.30  | ng    | # 40   |
| 50) 2,6-Dinitrotoluene      | 9.64 | 165  | 34924    | 7.50   | ng    | # 37   |
| 56) 2,4-Dinitrotoluene      | 9.64 | 165  | 34924    | 5.88   | ng    | # 21   |

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

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QLast Update : Wed Feb 10 13:28:51 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.60 min Scan# 439

Delta R.T. -0.02 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

Instrument :

BNA\_F

ClientSampleId :

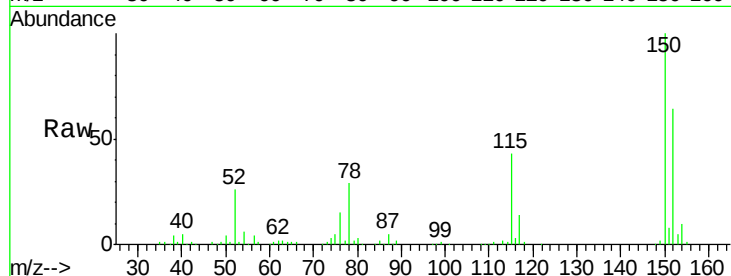
Tot Ion:152 Resp: 137774

Ion Ratio Lower Upper

152 100

150 156.2 123.0 184.4

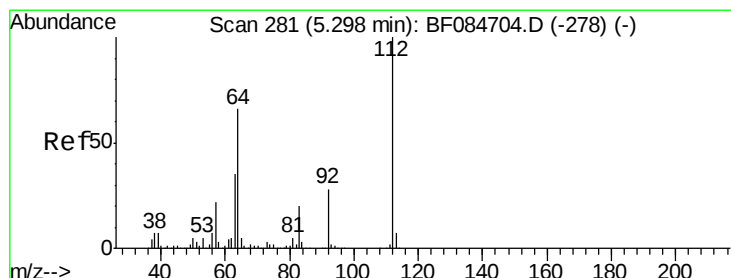
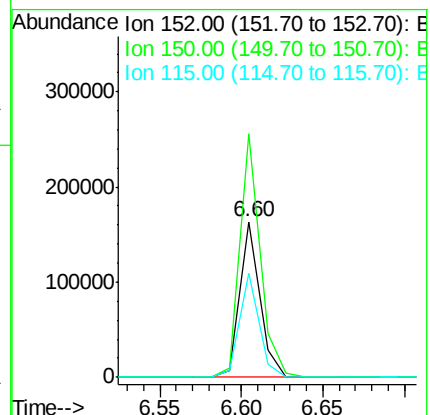
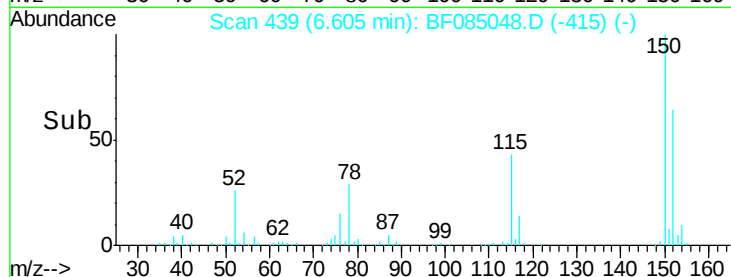
115 66.9 51.4 77.2



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: 0.37 ng

RT: 5.22 min Scan# 318

Delta R.T. 0.02 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

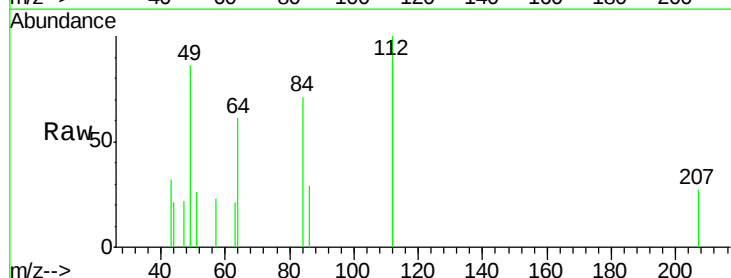
Tgt Ion:112 Resp: 3241

Ion Ratio Lower Upper

112 100

64 61.2 36.6 55.0#

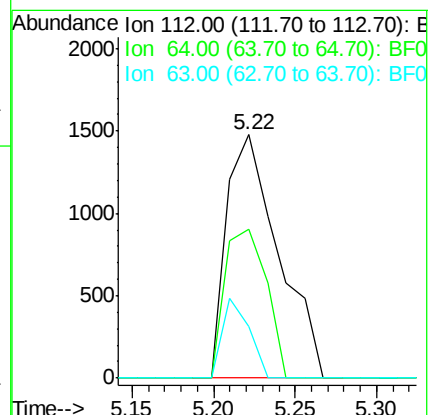
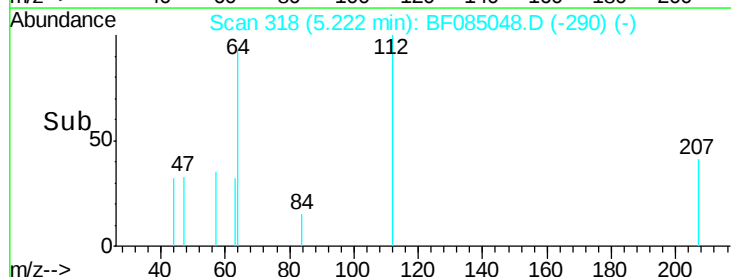
63 21.3 19.4 29.0

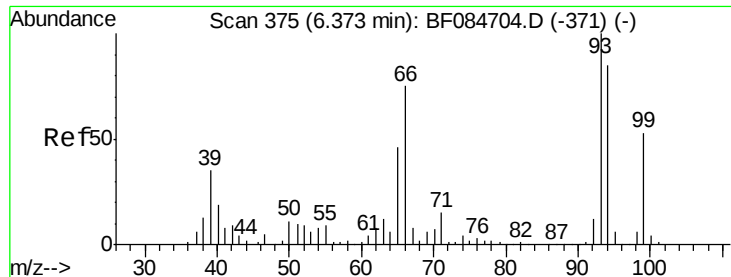


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#6

Aniline

Concen: 87.14 ng

RT: 6.27 min Scan# 410

Delta R.T. -0.02 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

Instrument :

BNA\_F

ClientSampleId :

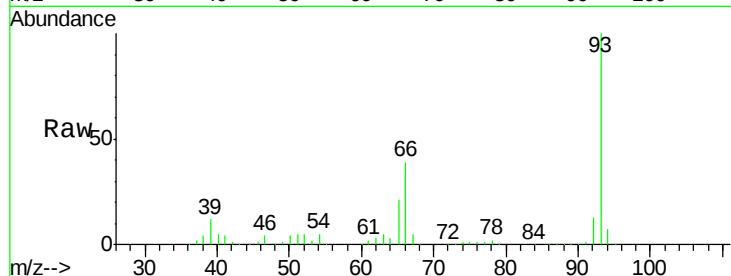
Tot Ion: 93 Resp: 1169253

Ion Ratio Lower Upper

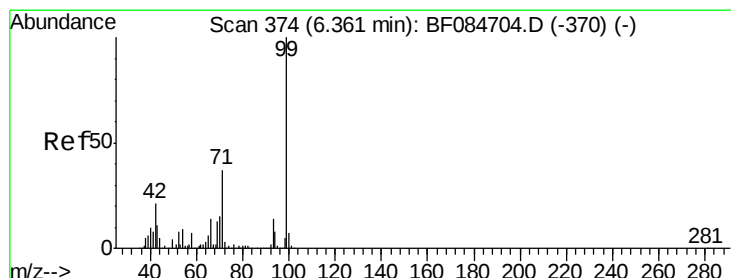
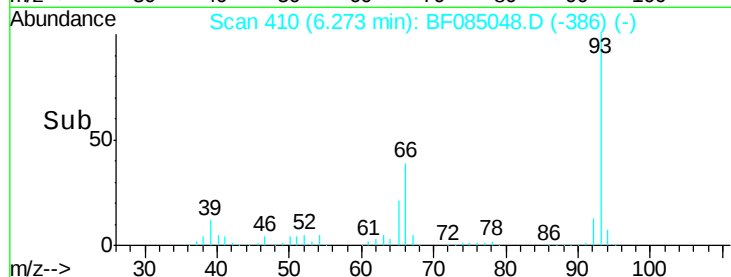
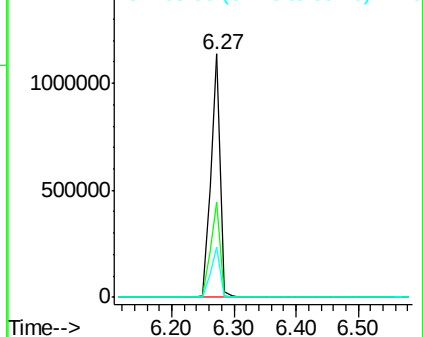
93 100

66 38.8 44.9 67.3#

65 20.5 23.7 35.5#



Abundance Ion 93.00 (92.70 to 93.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0



#7

Phenol-d6

Concen: 0.26 ng

RT: 6.28 min Scan# 411

Delta R.T. 0.00 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

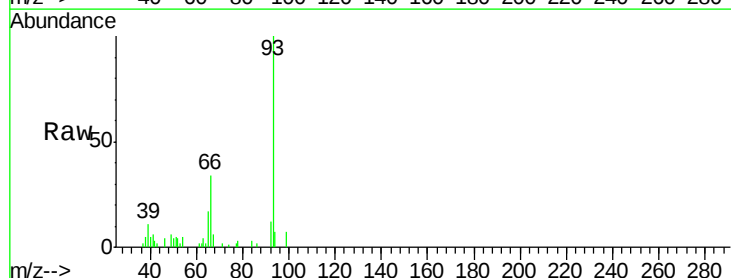
Tgt Ion: 99 Resp: 2836

Ion Ratio Lower Upper

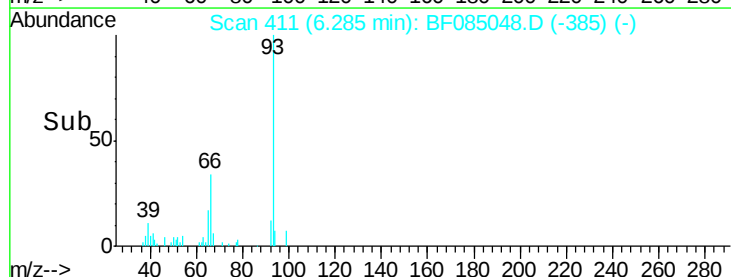
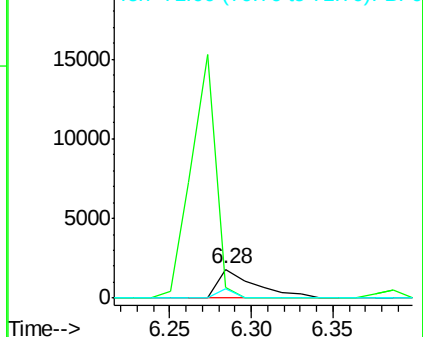
99 100

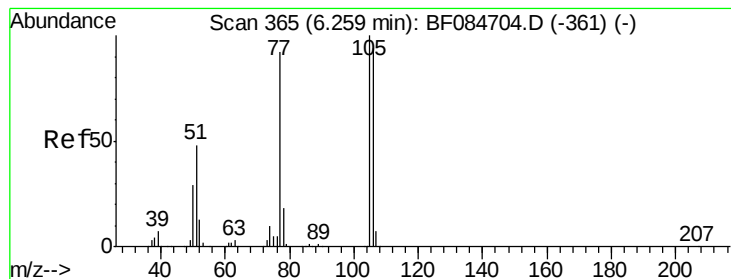
42 39.0 12.8 19.2#

71 34.0 30.9 46.3



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





#9

Benzaldehyd

Concen: 2.16 ng

RT: 6.27 min Scan# 410

Delta R.T. 0.10 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

Instrument :

BNA\_F

ClientSampleId :

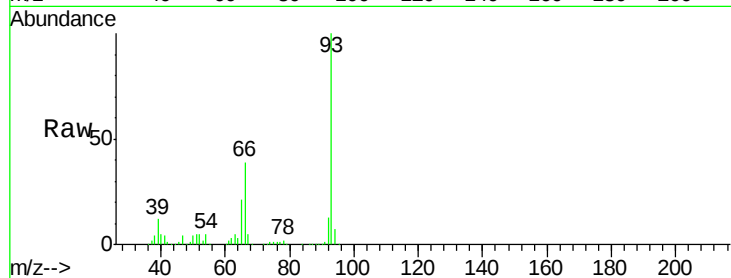
Tot Ion: 77 Resp: 14015

Ion Ratio Lower Upper

77 100

105 0.0 83.0 123.0#

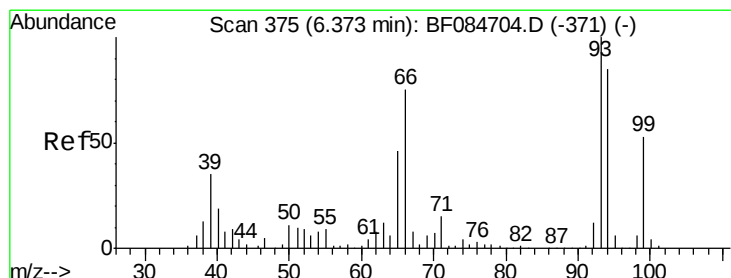
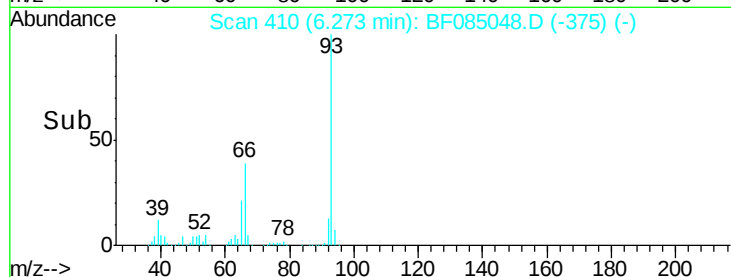
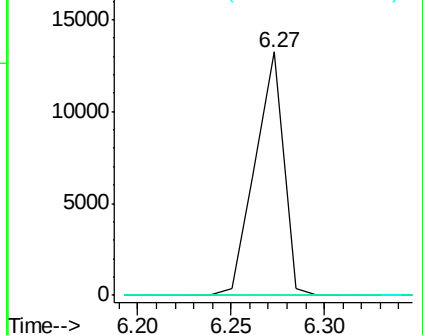
106 0.0 74.6 114.6#



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): BF0

Ion 106.00 (105.70 to 106.70): BF0



#10

Phenol

Concen: 6.84 ng

RT: 6.27 min Scan# 410

Delta R.T. -0.02 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

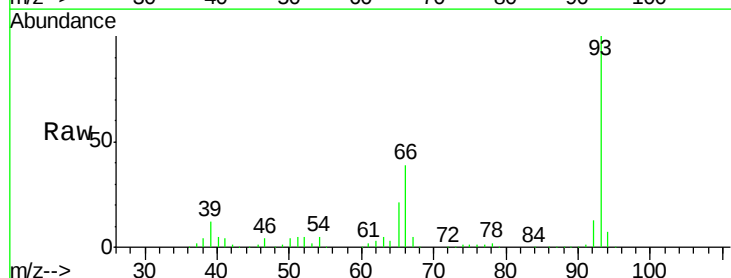
Tgt Ion: 94 Resp: 84021

Ion Ratio Lower Upper

94 100

65 287.5 12.9 52.9#

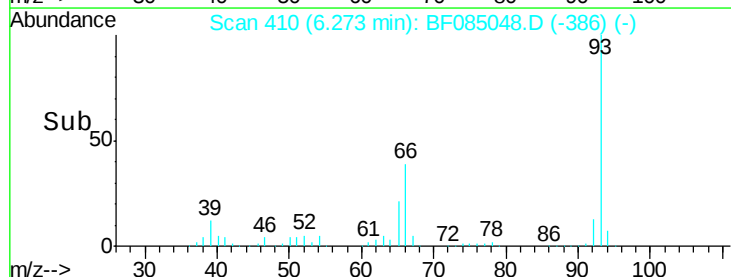
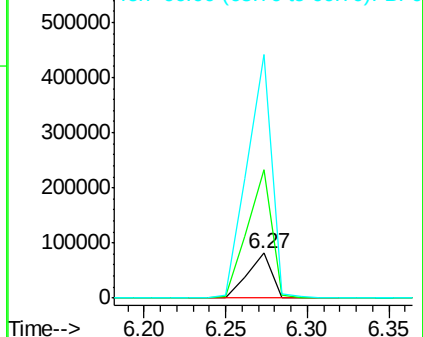
66 544.2 32.7 72.7#

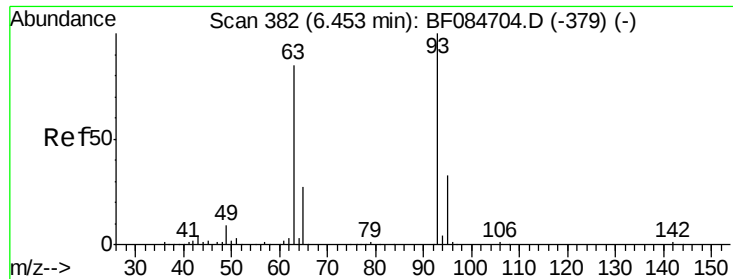


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#11

bis(2-Chloroethyl)ether

Concen: 122.06 ng

RT: 6.27 min Scan# 410

Delta R.T. -0.10 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

Instrument :

BNA\_F

ClientSampleId :

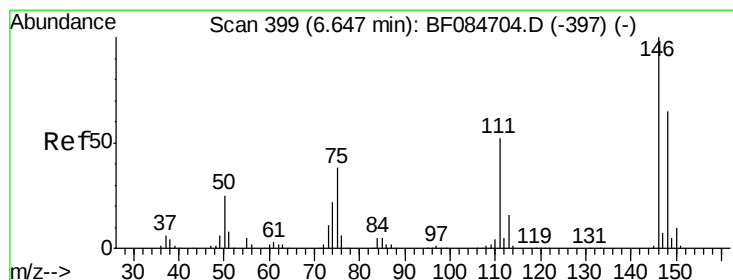
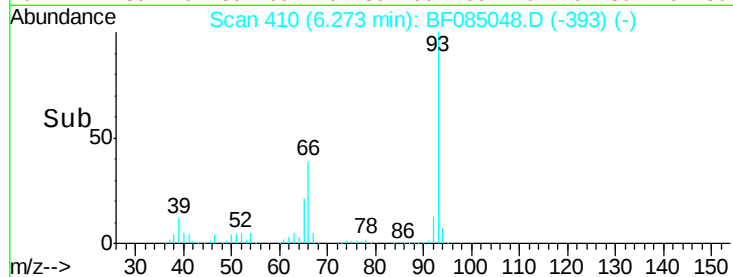
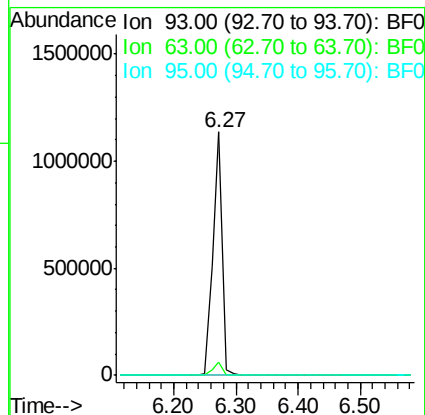
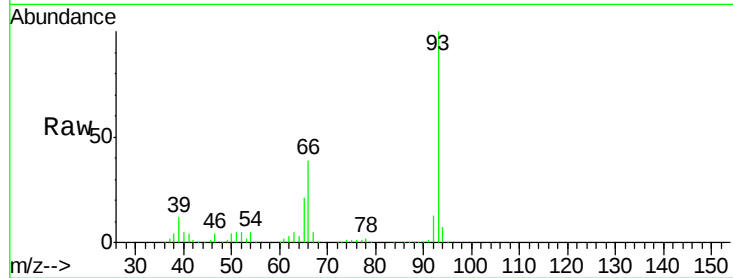
Tot Ion: 93 Resp: 1169253

Ion Ratio Lower Upper

93 100

63 5.5 45.9 85.9#

95 0.2 12.3 52.3#



#12

1,3-Dichlorobenzene

Concen: 2.63 ng

RT: 6.63 min Scan# 441

Delta R.T. 0.07 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

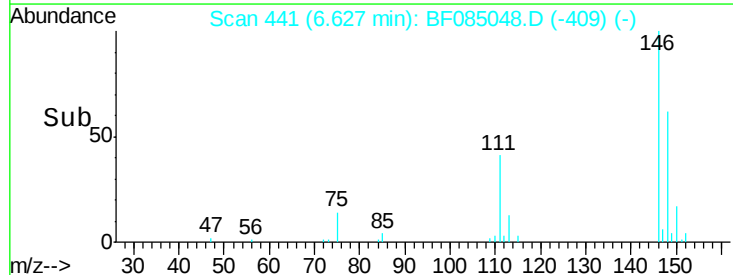
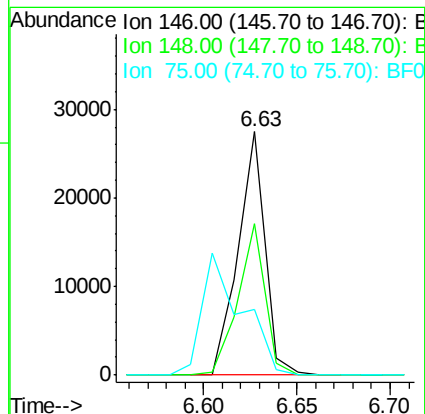
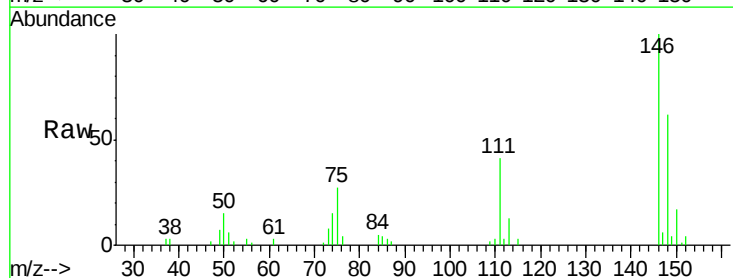
Tgt Ion:146 Resp: 27840

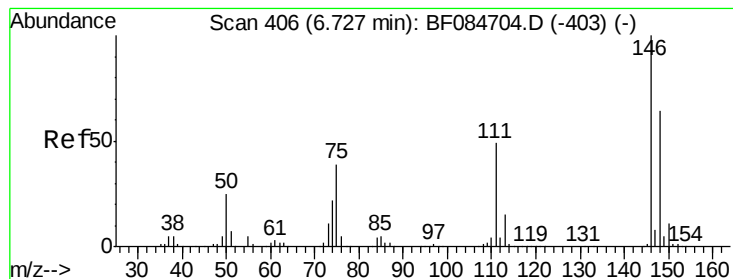
Ion Ratio Lower Upper

146 100

148 62.1 51.9 77.9

75 26.9 20.5 30.7





#13

1,4-Dichlorobenzene

Concen: 3.73 ng

RT: 6.78 min Scan# 454

Delta R.T. 0.14 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

Instrument :

BNA\_F

ClientSampleId :

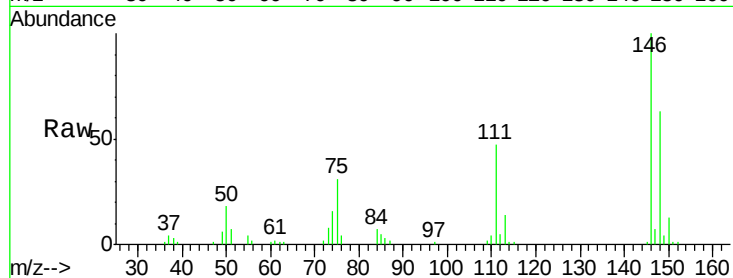
Tot Ion:146 Resp: 39494

Ion Ratio Lower Upper

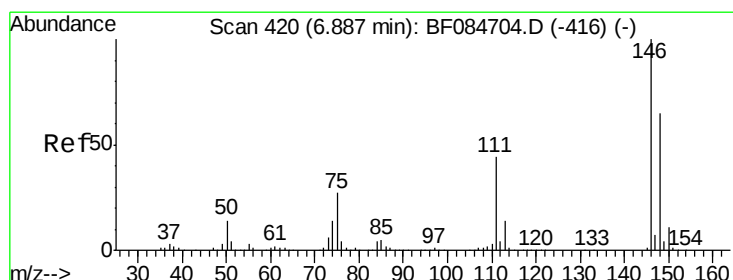
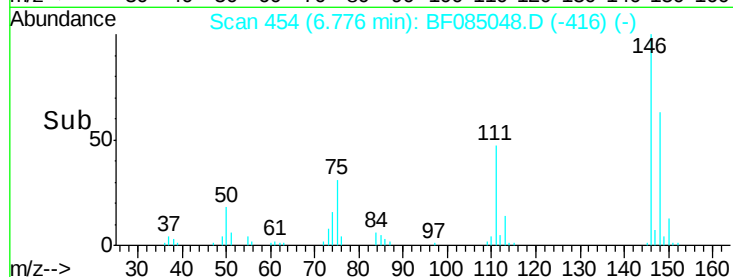
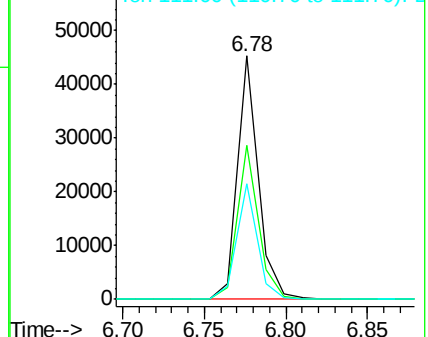
146 100

148 63.4 51.9 77.9

111 47.4 41.6 62.4



Abundance Ion 146.00 (145.70 to 146.70): E  
Ion 148.00 (147.70 to 148.70): E  
Ion 111.00 (110.70 to 111.70): E



#14

1,2-Dichlorobenzene

Concen: 4.01 ng

RT: 6.78 min Scan# 454

Delta R.T. -0.02 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

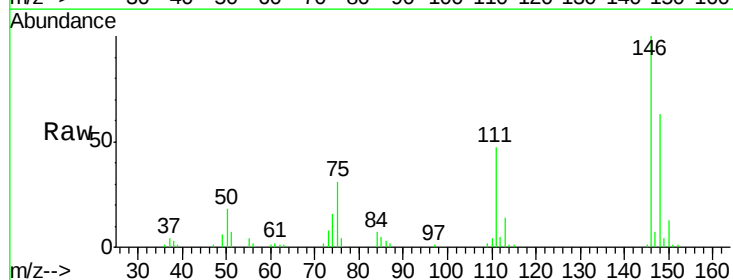
Tgt Ion:146 Resp: 39494

Ion Ratio Lower Upper

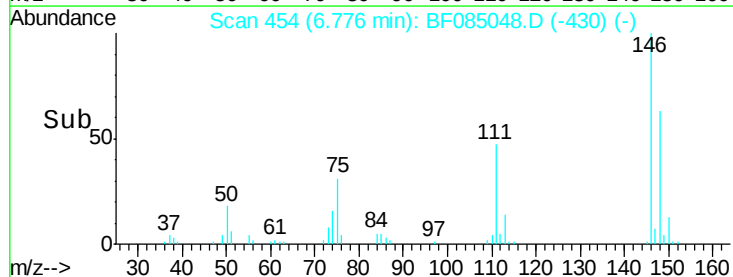
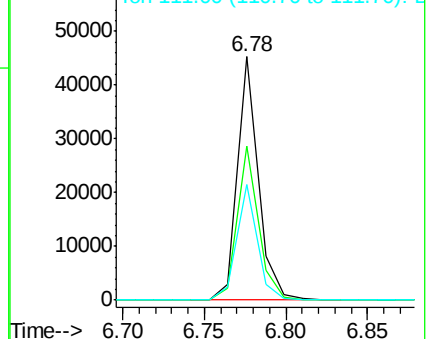
146 100

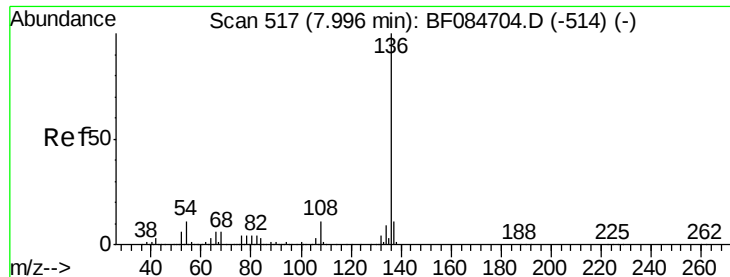
148 63.4 51.6 77.4

111 47.4 38.0 57.0



Abundance Ion 146.00 (145.70 to 146.70): E  
Ion 148.00 (147.70 to 148.70): E  
Ion 111.00 (110.70 to 111.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.90 min Scan# 552

Delta R.T. -0.02 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 604334

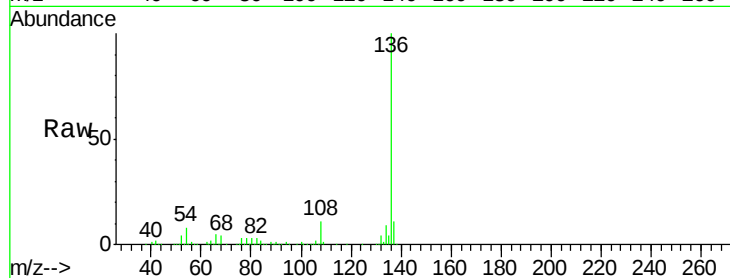
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 8.0 5.8 8.8

68 4.4 4.2 6.2

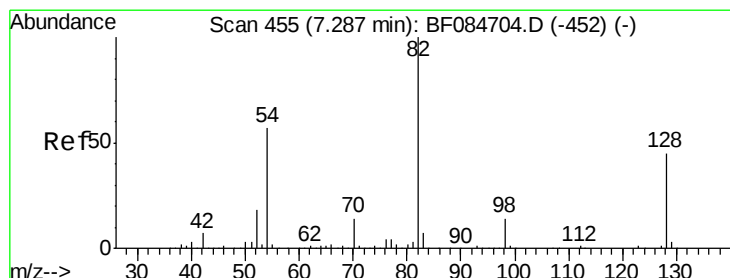
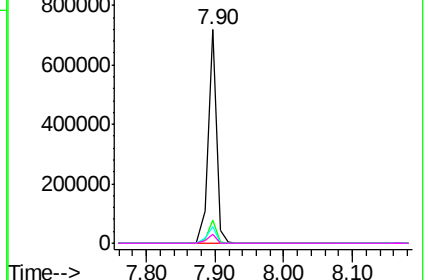
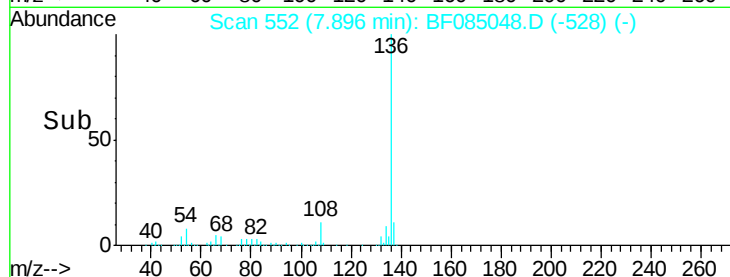


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.93 ng

RT: 7.18 min Scan# 489

Delta R.T. -0.02 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

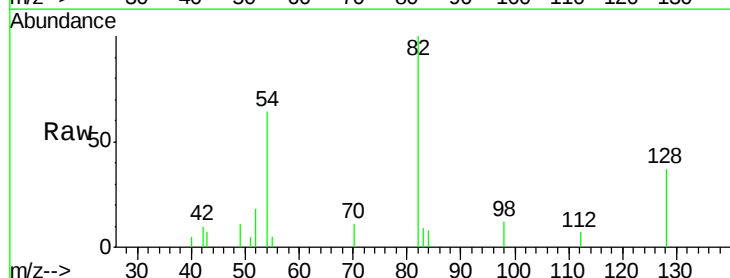
Tgt Ion: 82 Resp: 9981

Ion Ratio Lower Upper

82 100

128 37.1 34.6 51.8

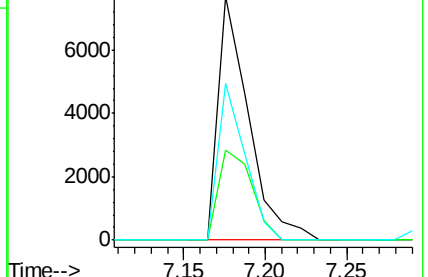
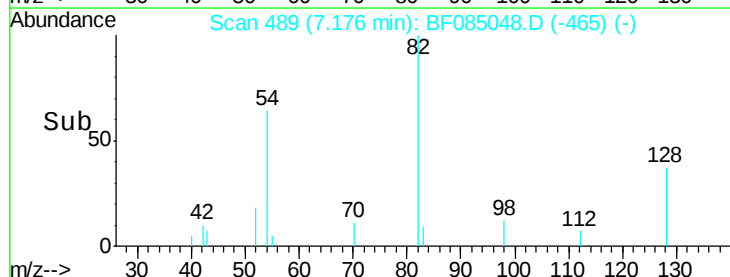
54 64.5 38.4 57.6#

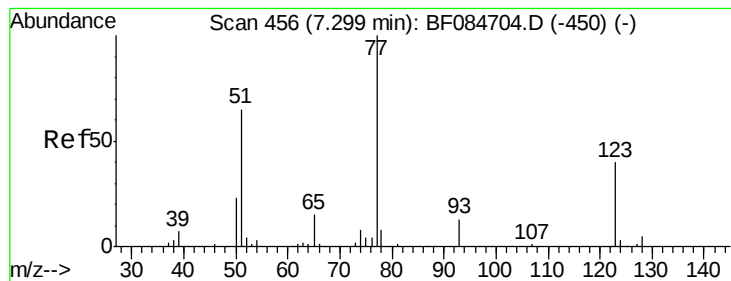


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#24

Nitrobenzene

Concen: 16.30 ng

RT: 7.30 min Scan# 500

Delta R.T. 0.08 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

Instrument :

BNA\_F

ClientSampled :

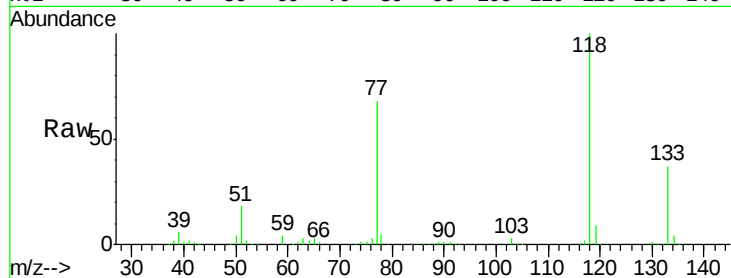
Tot Ion: 77 Resp: 187204

Ion Ratio Lower Upper

77 100

123 0.0 37.4 56.2#

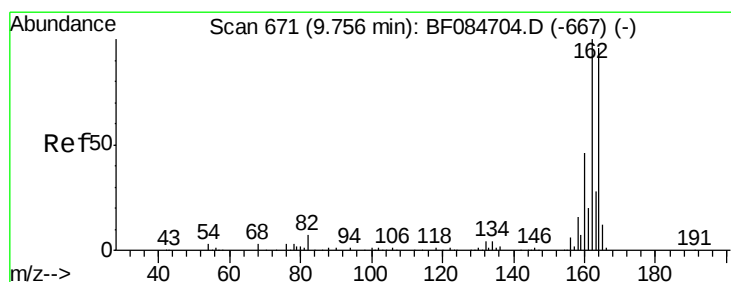
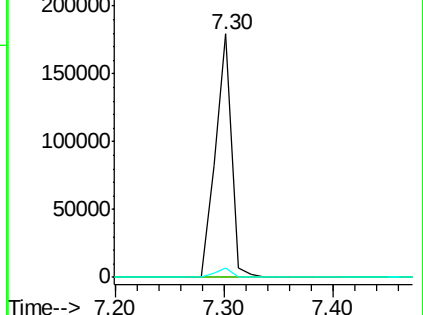
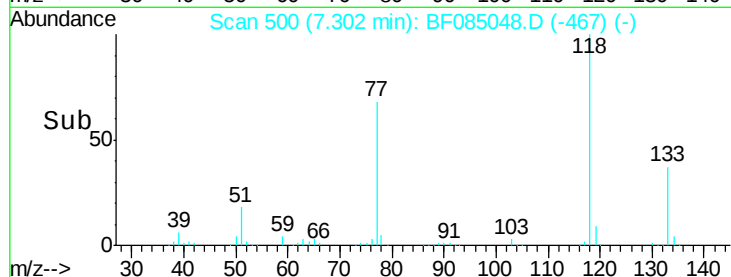
65 3.7 10.9 16.3#



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 123.00 (122.70 to 123.70): E

Ion 65.00 (64.70 to 65.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.64 min Scan# 705

Delta R.T. -0.02 min

Lab File: BF085048.D

Acq: 12 Feb 2016 8:21

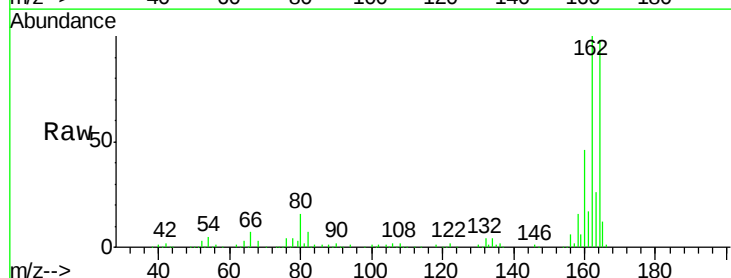
Tgt Ion:164 Resp: 279954

Ion Ratio Lower Upper

164 100

162 101.8 85.1 127.7

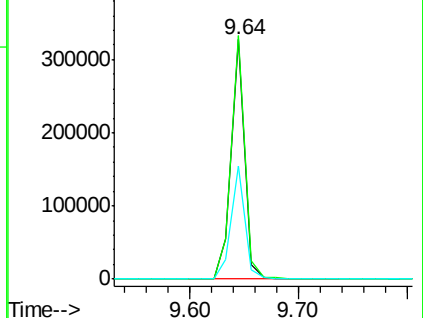
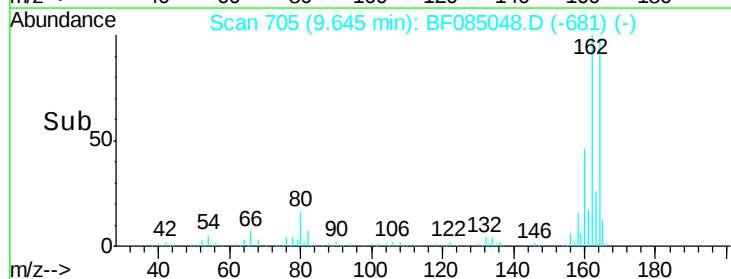
160 47.2 37.5 56.3

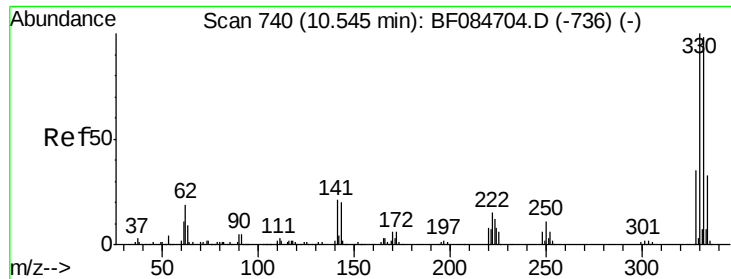


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

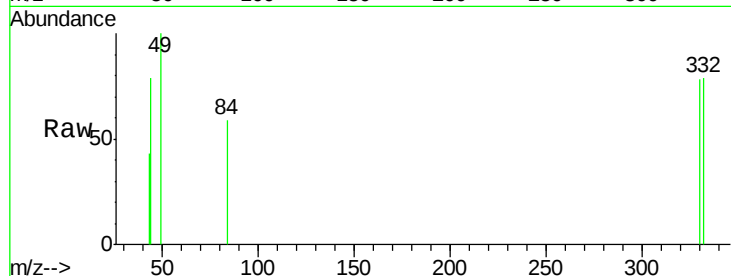




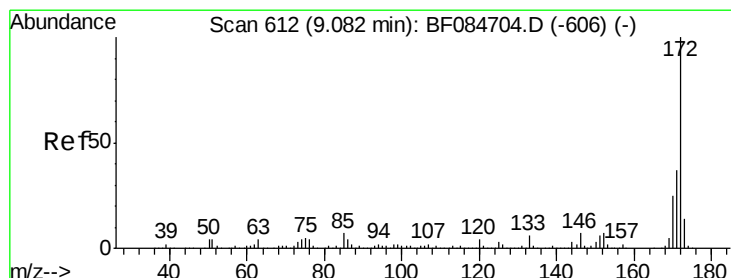
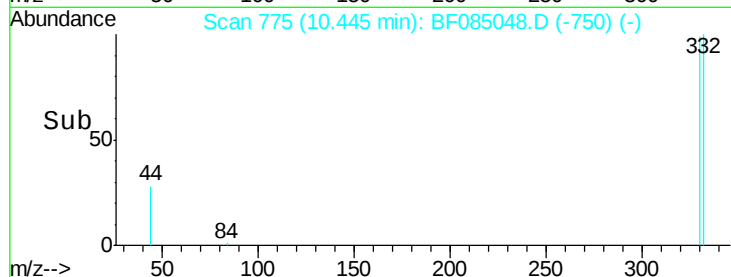
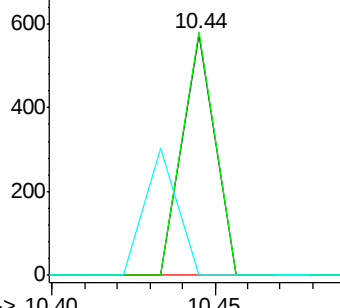
#41  
 2,4,6-Tribromophenol  
 Concen: 0.13 ng  
 RT: 10.44 min Scan# 775  
 Delta R.T. -0.01 min  
 Lab File: BF085048.D  
 Acq: 12 Feb 2016 8:21

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 394  
 Ion Ratio Lower Upper  
 330 100  
 332 101.0 76.6 114.8  
 141 52.5 27.8 41.6#

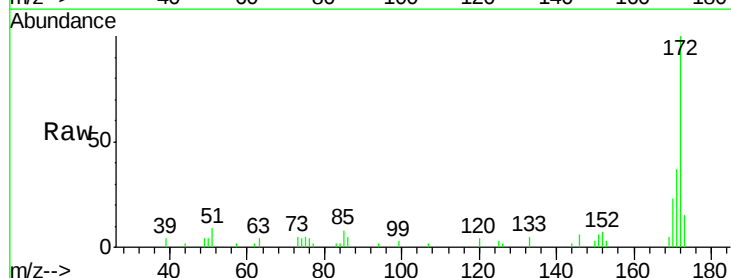


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

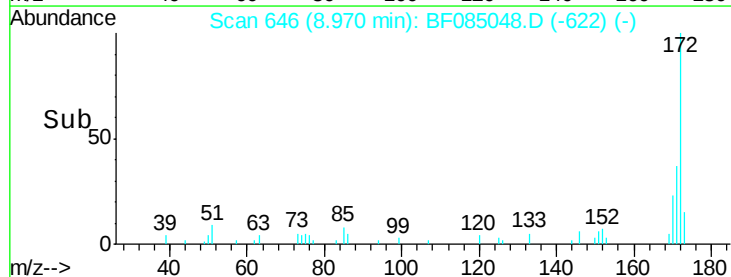
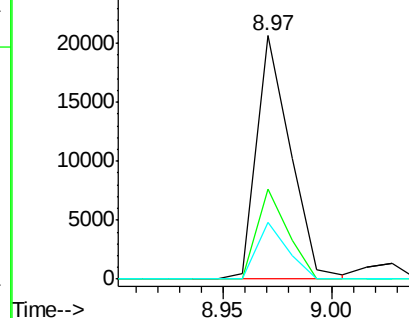


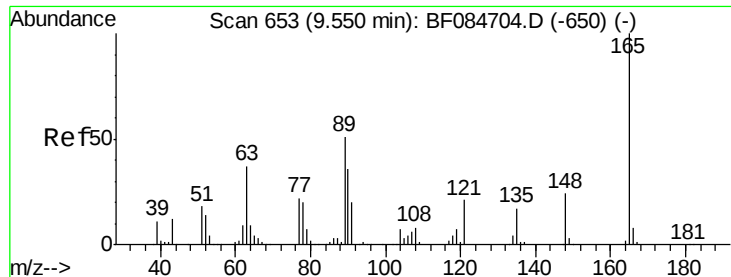
#44  
 2-Fluorobiphenyl  
 Concen: -1.00 ng  
 RT: 8.97 min Scan# 646  
 Delta R.T. -0.02 min  
 Lab File: BF085048.D  
 Acq: 12 Feb 2016 8:21

Tgt Ion:172 Resp: 22357  
 Ion Ratio Lower Upper  
 172 100  
 171 37.2 28.9 43.3  
 170 23.4 18.6 27.8



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

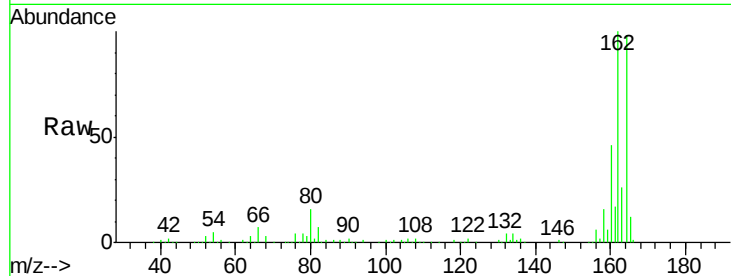




#50  
 2,6-Dinitrotoluene  
 Concen: 7.50 ng  
 RT: 9.64 min Scan# 705  
 Delta R.T. 0.17 min  
 Lab File: BF085048.D  
 Acq: 12 Feb 2016 8:21

Instrument :  
 BNA\_F  
 ClientSampleId :

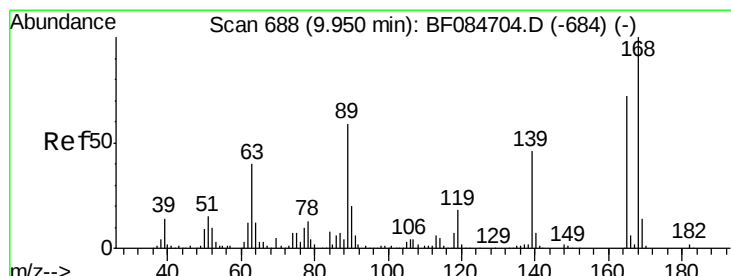
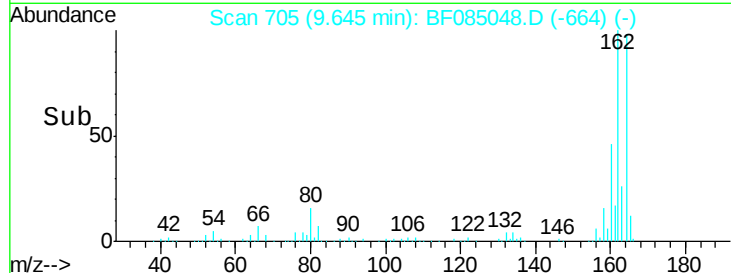
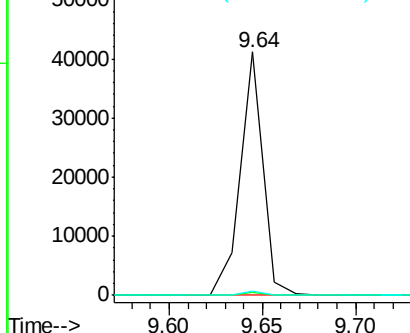
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 28.8  | 43.2# |
| 89      | 1.8   | 35.1  | 52.7# |



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: 5.88 ng  
 RT: 9.64 min Scan# 705  
 Delta R.T. -0.23 min  
 Lab File: BF085048.D  
 Acq: 12 Feb 2016 8:21

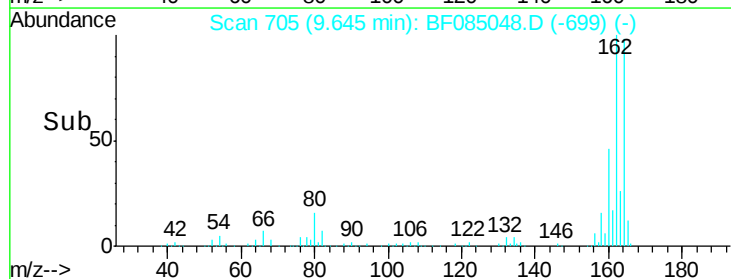
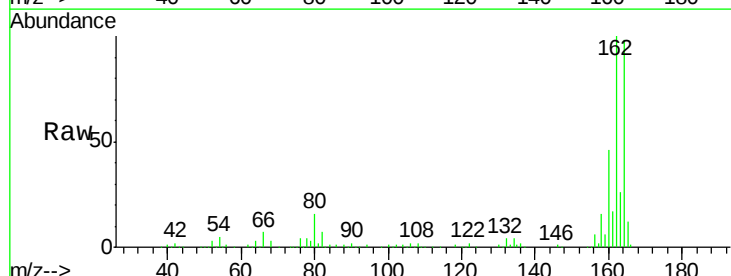
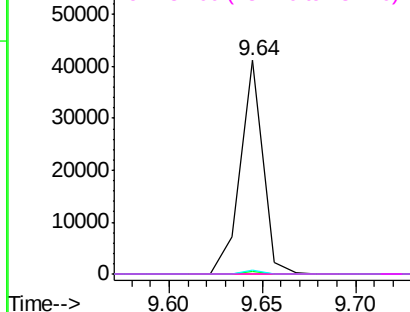
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 36.7  | 55.1# |
| 89      | 1.8   | 61.9  | 92.9# |
| 182     | 0.0   | 2.0   | 3.0#  |

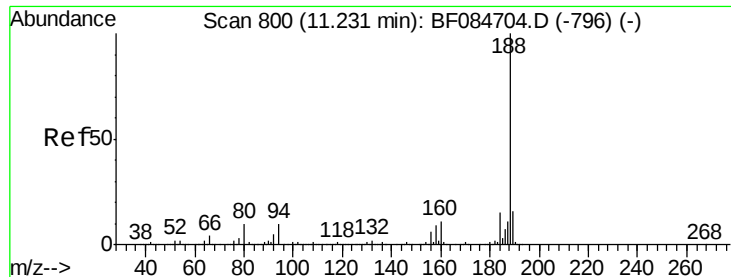
Abundance Ion 165.00 (164.70 to 165.70): E

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

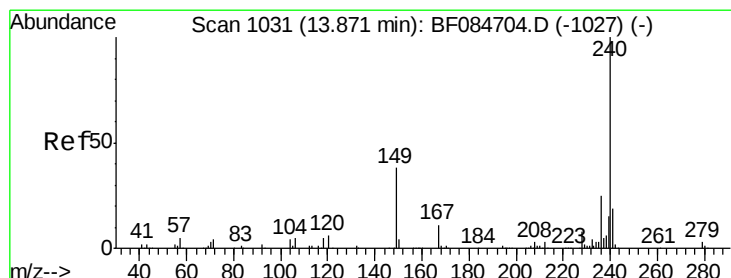
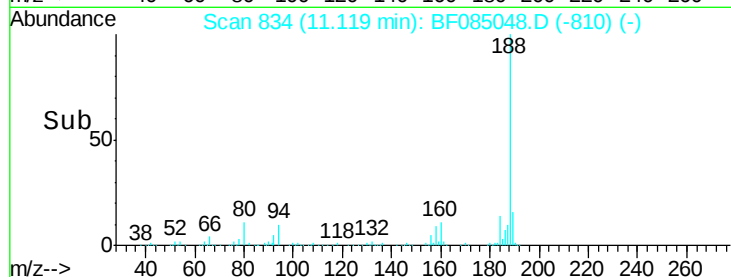
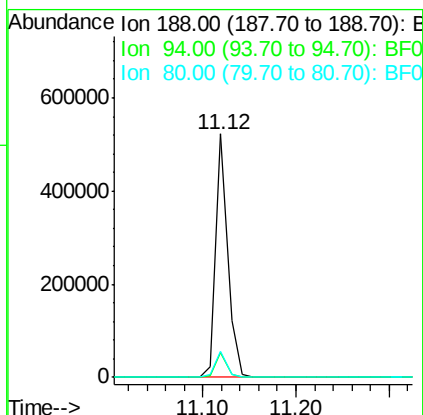
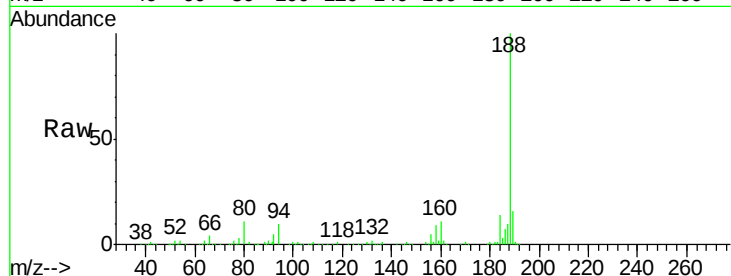




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.12 min Scan# 834  
Delta R.T. -0.02 min  
Lab File: BF085048.D  
Acq: 12 Feb 2016 8:21

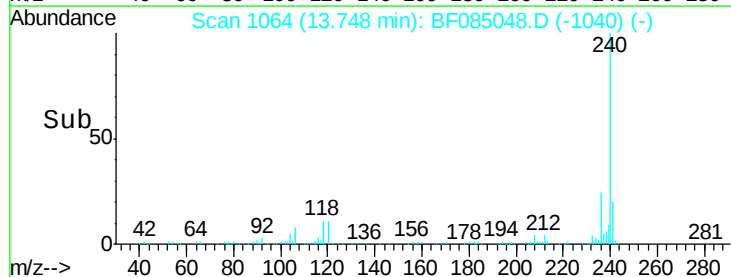
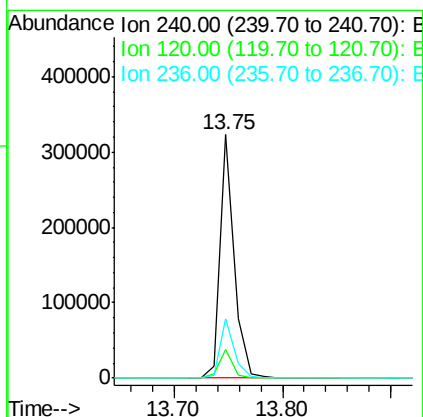
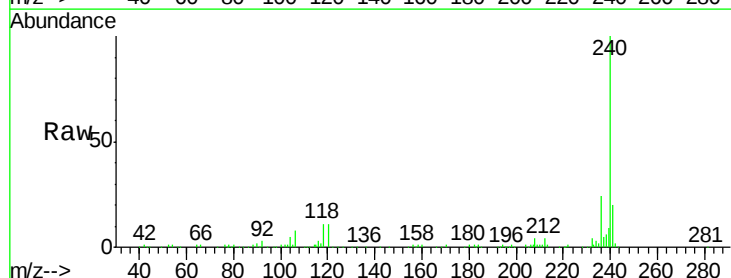
Instrument :  
BNA\_F  
ClientSampleId :

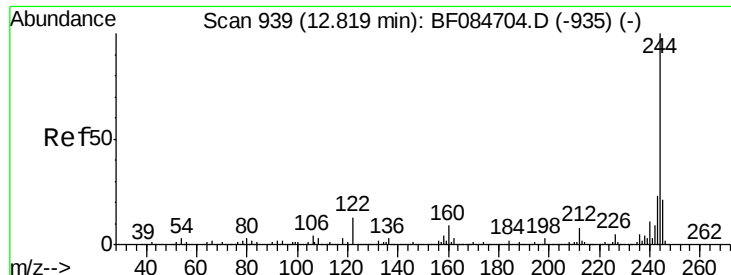
Tot Ion:188 Resp: 466070  
Ion Ratio Lower Upper  
188 100  
94 10.0 9.0 13.4  
80 10.6 9.6 14.4



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.75 min Scan# 1064  
Delta R.T. -0.02 min  
Lab File: BF085048.D  
Acq: 12 Feb 2016 8:21

Tgt Ion:240 Resp: 293704  
Ion Ratio Lower Upper  
240 100  
120 11.5 9.5 14.3  
236 24.4 20.6 31.0

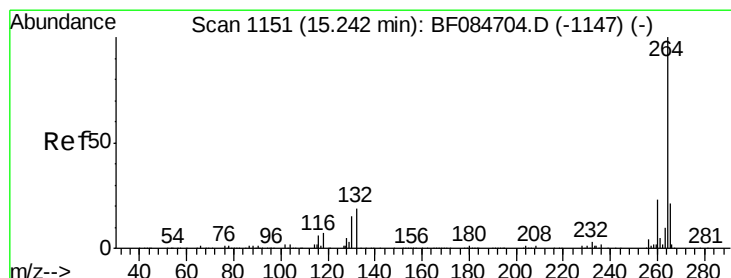
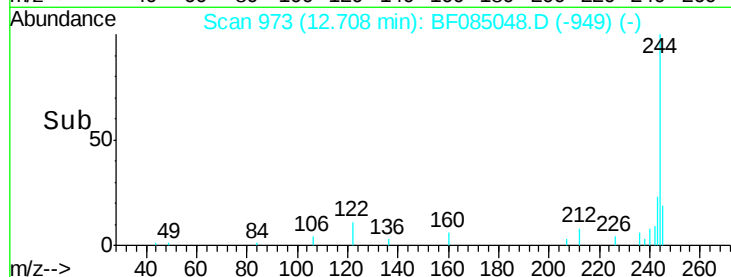
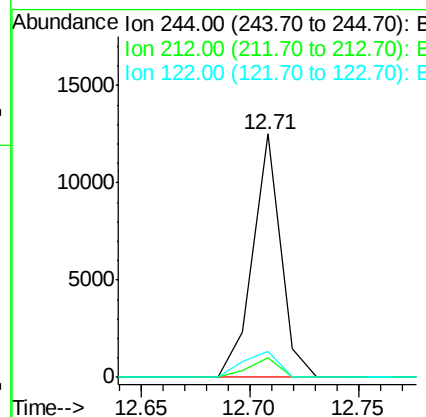
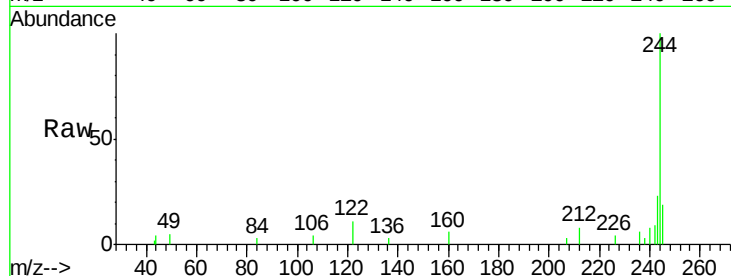




#78  
 Terphenyl-d14  
 Concen: 0.86 ng  
 RT: 12.71 min Scan# 973  
 Delta R.T. -0.02 min  
 Lab File: BF085048.D  
 Acq: 12 Feb 2016 8:21

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 11157  
 Ion Ratio Lower Upper  
 244 100  
 212 8.2 5.7 8.5  
 122 10.5 7.4 11.0



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.11 min Scan# 1183  
 Delta R.T. -0.02 min  
 Lab File: BF085048.D  
 Acq: 12 Feb 2016 8:21

Tgt Ion:264 Resp: 276590  
 Ion Ratio Lower Upper  
 264 100  
 260 23.6 19.4 29.2  
 265 21.8 17.8 26.6

