

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030916\  
 Data File : BF085304.D  
 Acq On : 9 Mar 2016 17:43  
 Operator : UM/SJ  
 Sample : H1623-07RE  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-34-022516

Quant Time: Mar 09 23:50:07 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 04 00:54:58 2016  
 Response via : Initial Calibration

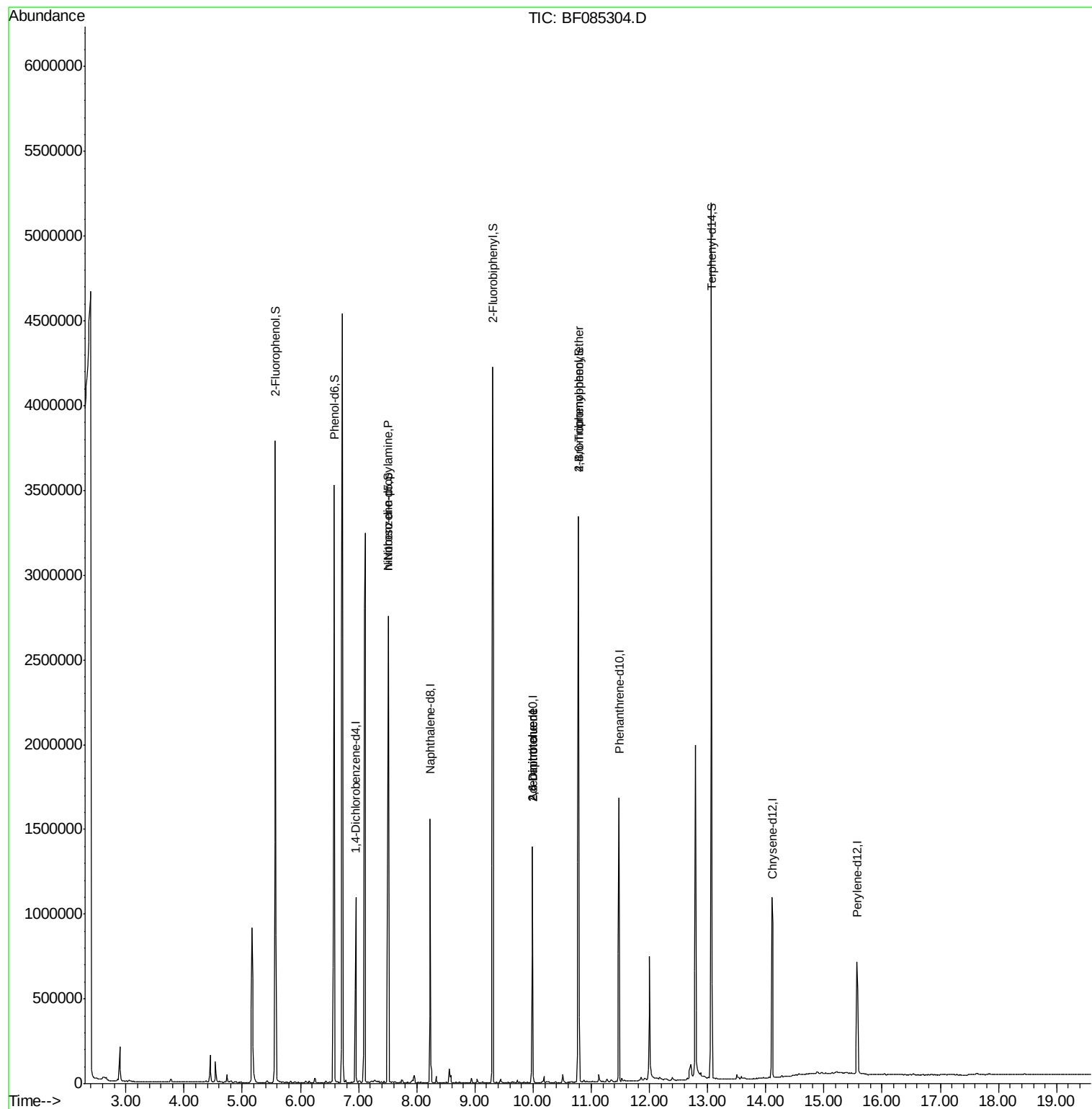
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-----------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.95  | 152  | 193729   | 20.00     | ng    | -0.03     |
| 21) Naphthalene-d8             | 8.23  | 136  | 697808   | 20.00     | ng    | -0.03     |
| 38) Acenaphthene-d10           | 9.99  | 164  | 327321   | 20.00     | ng    | -0.03     |
| 63) Phenanthrene-d10           | 11.48 | 188  | 685474   | 20.00     | ng    | -0.03     |
| 75) Chrysene-d12               | 14.12 | 240  | 516091   | 20.00     | ng    | -0.03     |
| 86) Perylene-d12               | 15.57 | 264  | 335859   | 20.00     | ng    | -0.05     |
| System Monitoring Compounds    |       |      |          |           |       |           |
| 5) 2-Fluorophenol              | 5.57  | 112  | 1299297  | 112.50    | ng    | -0.01     |
| 7) Phenol-d6                   | 6.58  | 99   | 1823971  | 120.54    | ng    | -0.02     |
| 23) Nitrobenzene-d5            | 7.51  | 82   | 1050793  | 80.58     | ng    | -0.03     |
| 41) 2,4,6-Tribromophenol       | 10.78 | 330  | 452118   | 161.43    | ng    | -0.03     |
| 44) 2-Fluorobiphenyl           | 9.30  | 172  | 1946236  | 90.43     | ng    | -0.05     |
| 78) Terphenyl-d14              | 13.06 | 244  | 1806188  | 81.24     | ng    | -0.02     |
| Target Compounds               |       |      |          |           |       |           |
| 9) Benzaldehyde                | 6.49  | 77   | 1252     | Below Cal |       | Qvalue 95 |
| 19) n-Nitroso-di-n-propylamine | 7.51  | 70   | 142104   | 14.41 ng  | #     | 77        |
| 50) 2,6-Dinitrotoluene         | 9.99  | 165  | 42168    | 7.85 ng   | #     | 26        |
| 56) 2,4-Dinitrotoluene         | 9.99  | 165  | 42171    | 6.13 ng   | #     | 22        |
| 66) 4-Bromophenyl-phenylether  | 10.78 | 248  | 31873    | 4.79 ng   | #     | 1         |

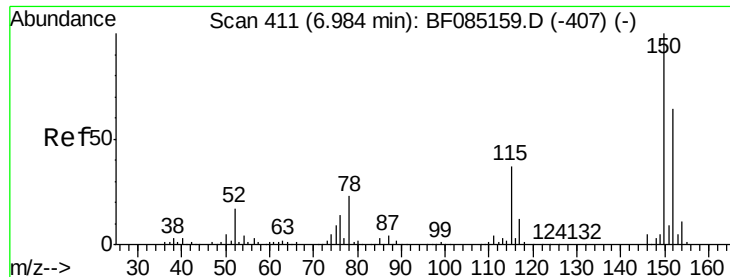
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030916\  
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BNA\_F  
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HSR-WC-34-022516

Quant Time: Mar 09 23:50:07 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 04 00:54:58 2016  
Response via : Initial Calibration

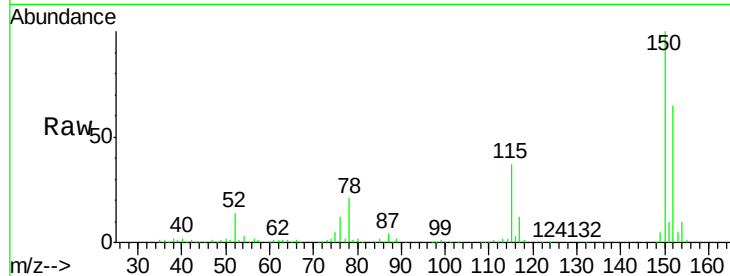




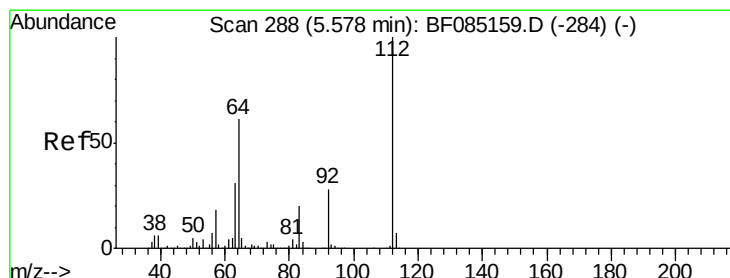
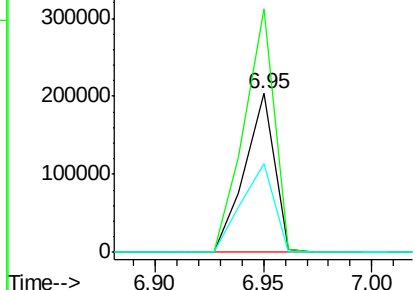
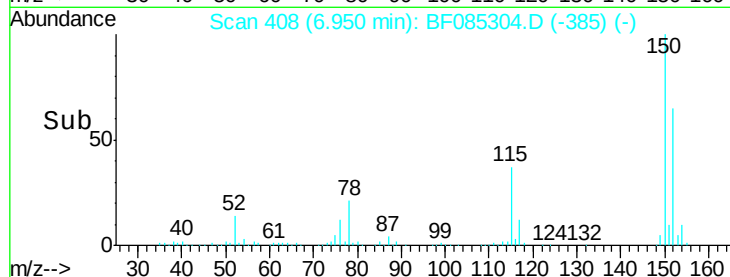
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.95 min Scan# 408  
 Delta R.T. -0.03 min  
 Lab File: BF085304.D  
 Acq: 9 Mar 2016 17:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-34-022516

Tgt Ion:152 Resp: 193729  
 Ion Ratio Lower Upper  
 152 100  
 150 153.1 124.6 186.8  
 115 56.1 46.6 70.0

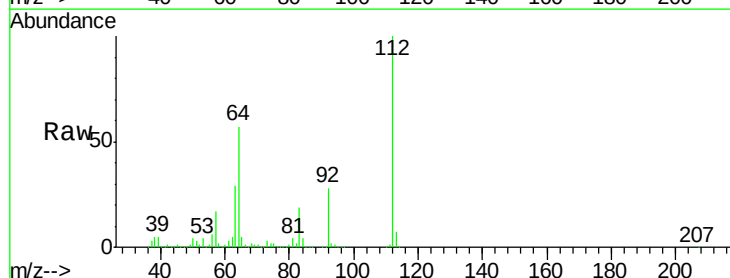


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

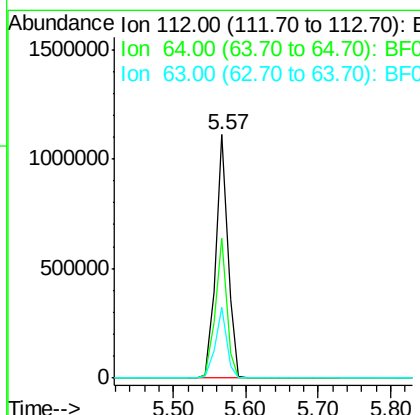
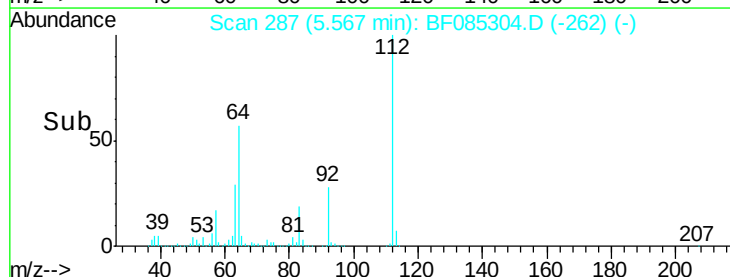


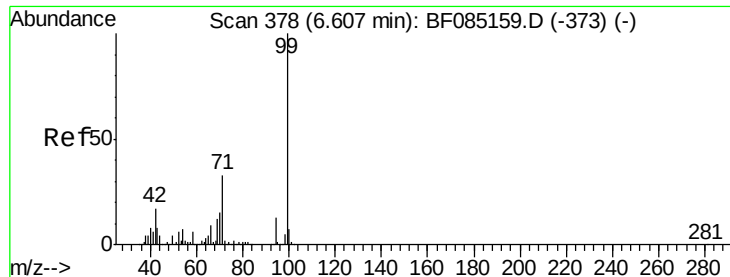
#5  
 2-Fluorophenol  
 Concen: 112.50 ng  
 RT: 5.57 min Scan# 287  
 Delta R.T. -0.01 min  
 Lab File: BF085304.D  
 Acq: 9 Mar 2016 17:43

Tgt Ion:112 Resp: 1299297  
 Ion Ratio Lower Upper  
 112 100  
 64 57.5 49.0 73.4  
 63 29.3 24.8 37.2



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: 120.54 ng

RT: 6.58 min Scan# 376

Delta R.T. -0.02 min

Lab File: BF085304.D

Acq: 9 Mar 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-34-022516

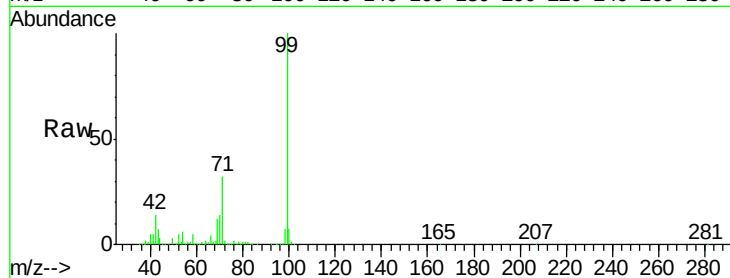
Tgt Ion: 99 Resp: 1823971

Ion Ratio Lower Upper

99 100

42 13.8 13.6 20.4

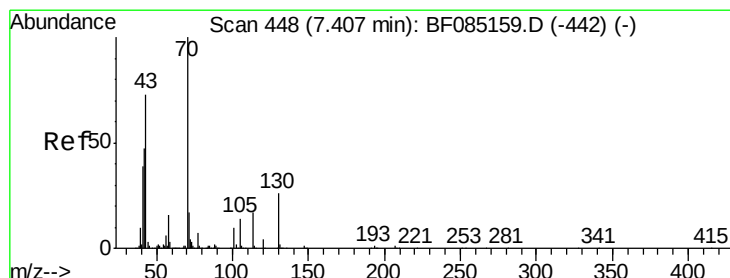
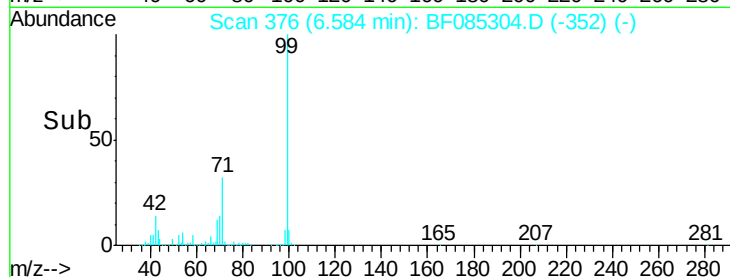
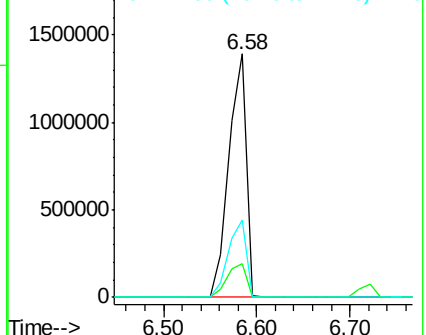
71 31.8 26.7 40.1



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: 14.41 ng

RT: 7.51 min Scan# 457

Delta R.T. 0.10 min

Lab File: BF085304.D

Acq: 9 Mar 2016 17:43

Tgt Ion: 70 Resp: 142104

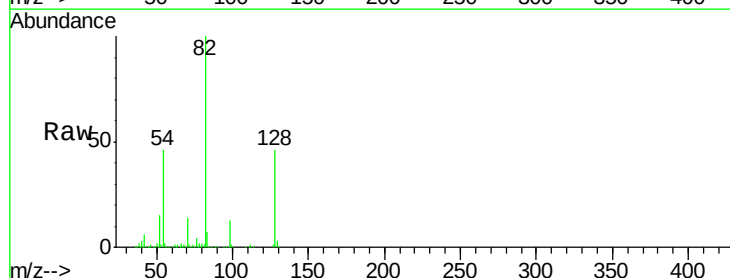
Ion Ratio Lower Upper

70 100

42 41.2 37.7 56.5

101 0.0 8.2 12.4#

130 1.9 20.5 30.7#

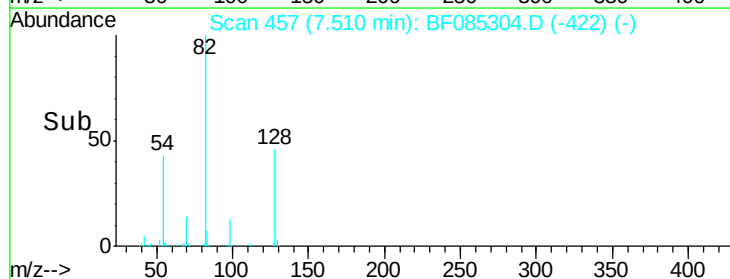
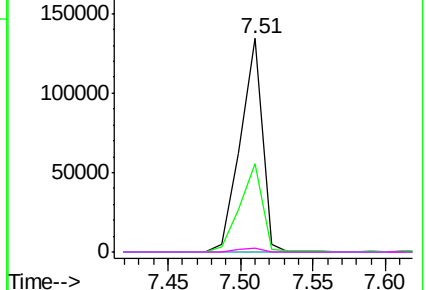


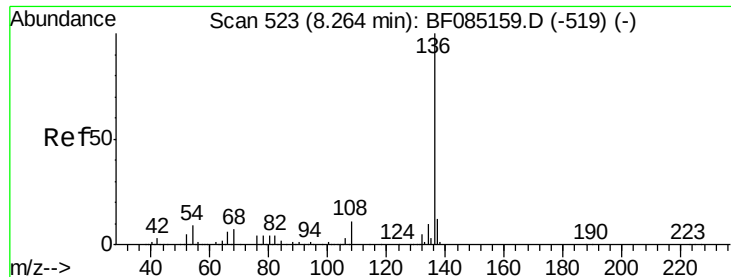
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

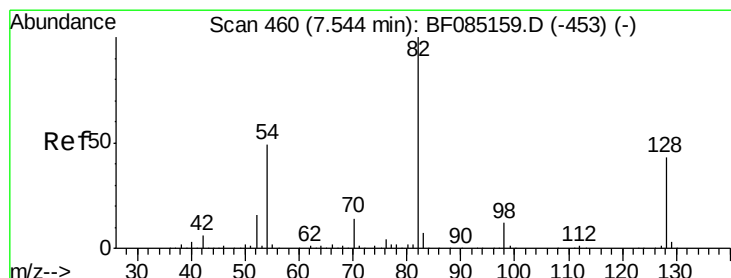
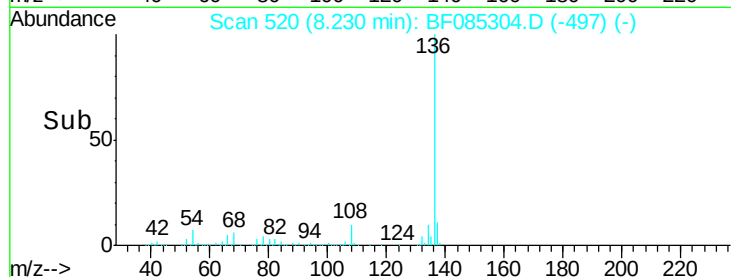
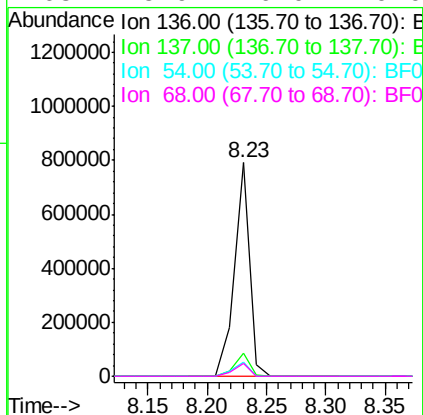
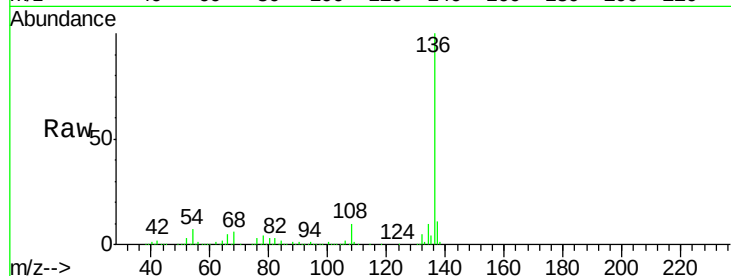




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.23 min Scan# 520  
Delta R.T. -0.03 min  
Lab File: BF085304.D  
Acq: 9 Mar 2016 17:43

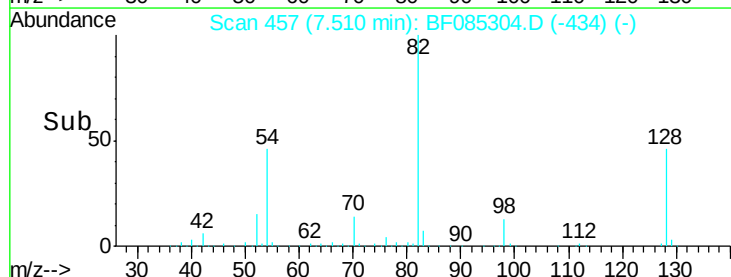
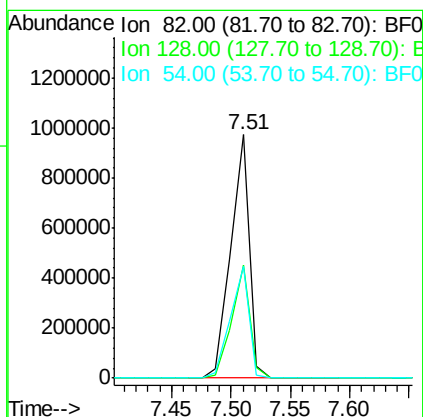
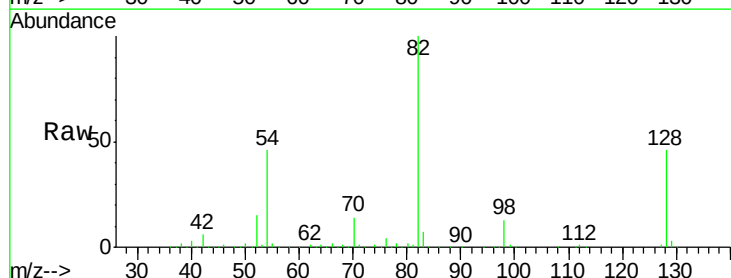
Instrument :  
BNA\_F  
ClientSampleId :  
HSR-WC-34-022516

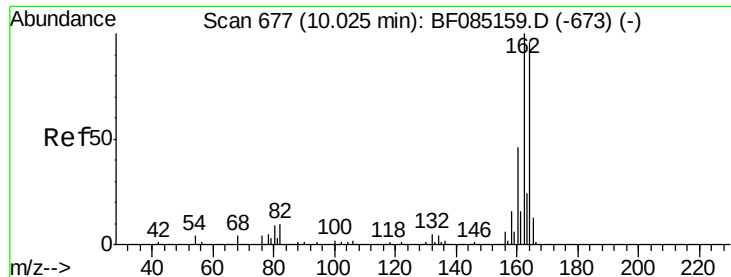
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 697808 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 9.3   | 13.9   |
| 54       | 6.7   | 7.4   | 11.2#  |
| 68       | 5.9   | 6.0   | 9.0#   |



#23  
Nitrobenzene-d5  
Concen: 80.58 ng  
RT: 7.51 min Scan# 457  
Delta R.T. -0.03 min  
Lab File: BF085304.D  
Acq: 9 Mar 2016 17:43

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1050793 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 46.2  | 34.5  | 51.7    |
| 54       | 46.0  | 39.3  | 58.9    |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.99 min Scan# 674

Delta R.T. -0.03 min

Lab File: BF085304.D

Acq: 9 Mar 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-34-022516

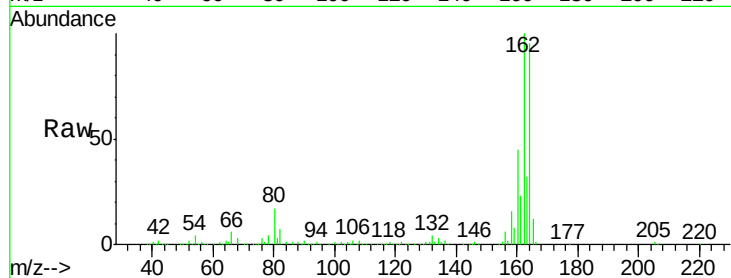
Tgt Ion:164 Resp: 327321

Ion Ratio Lower Upper

164 100

162 105.7 83.3 124.9

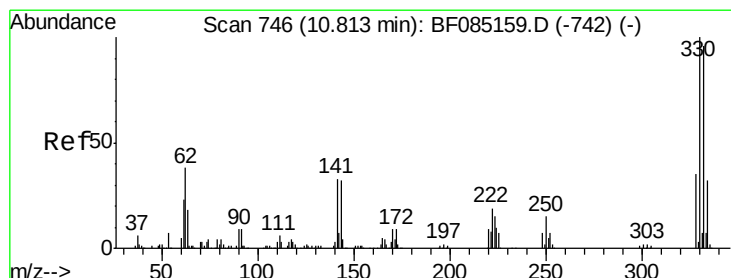
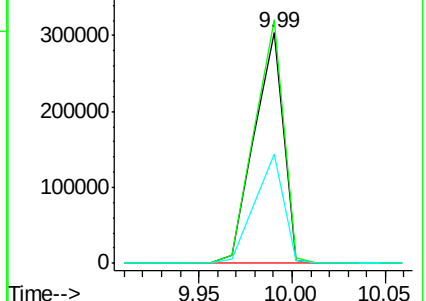
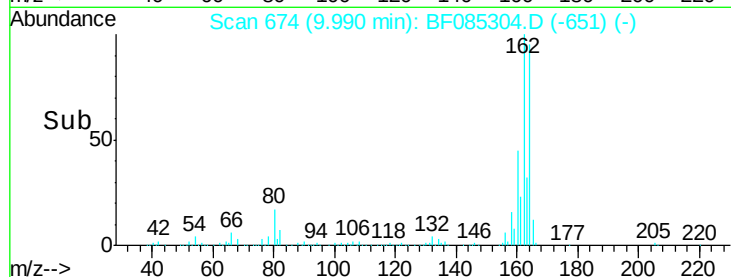
160 47.6 37.9 56.9



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: 161.43 ng

RT: 10.78 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF085304.D

Acq: 9 Mar 2016 17:43

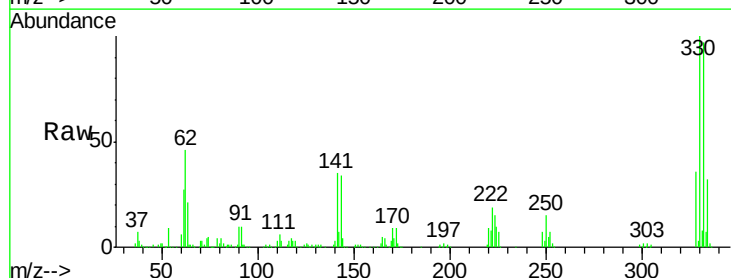
Tgt Ion:330 Resp: 452118

Ion Ratio Lower Upper

330 100

332 97.2 77.1 115.7

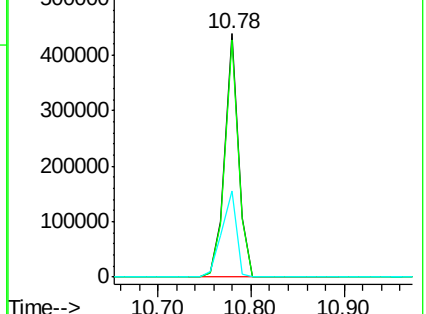
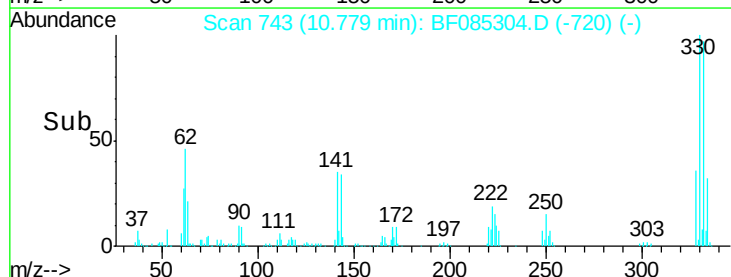
141 37.2 35.0 52.6

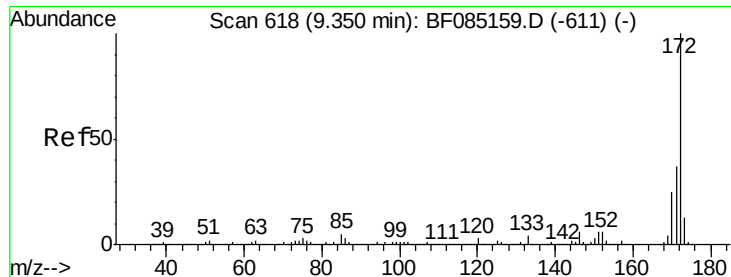


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

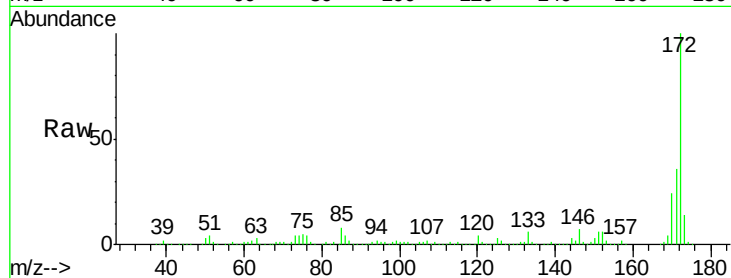




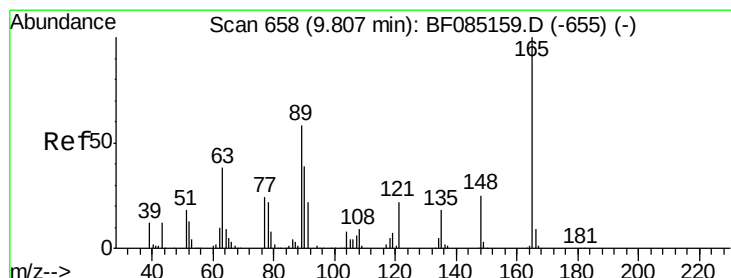
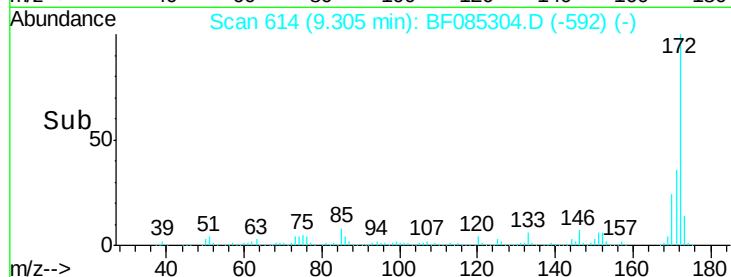
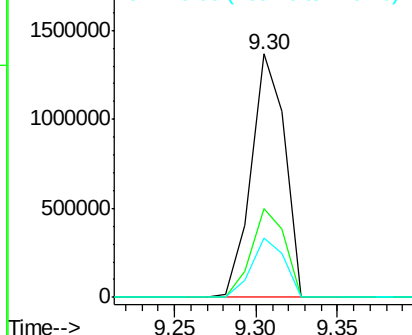
#44  
 2-Fluorobiphenyl  
 Concen: 90.43 ng  
 RT: 9.30 min Scan# 614  
 Delta R.T. -0.05 min  
 Lab File: BF085304.D  
 Acq: 9 Mar 2016 17:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-34-022516

Tgt Ion:172 Resp: 1946236  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.3 43.9  
 170 24.4 20.0 30.0

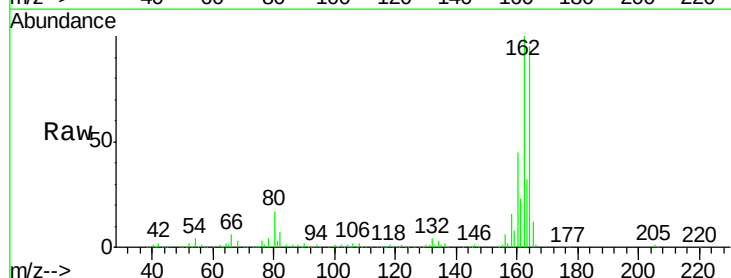


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

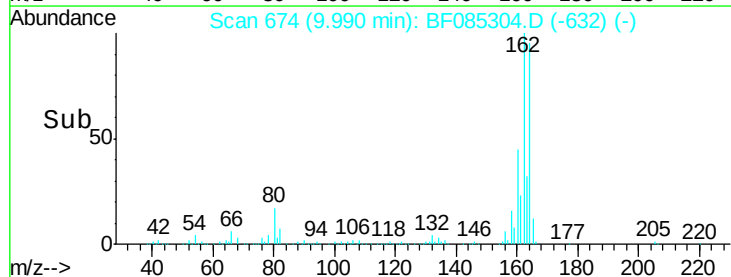
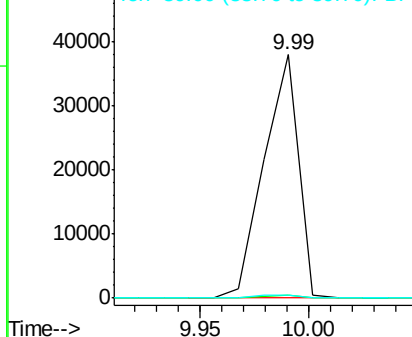


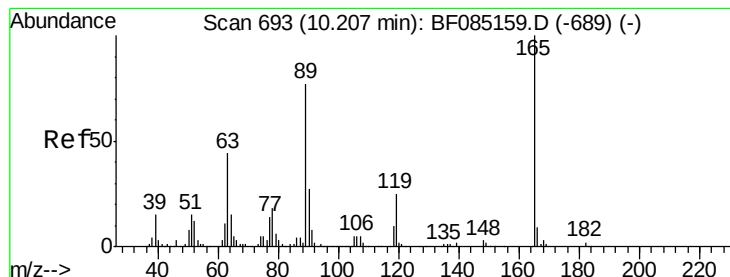
#50  
 2,6-Dinitrotoluene  
 Concen: 7.85 ng  
 RT: 9.99 min Scan# 674  
 Delta R.T. 0.18 min  
 Lab File: BF085304.D  
 Acq: 9 Mar 2016 17:43

Tgt Ion:165 Resp: 42168  
 Ion Ratio Lower Upper  
 165 100  
 63 1.3 41.8 62.8#  
 89 1.5 46.7 70.1#



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: 6.13 ng

RT: 9.99 min Scan# 674

Delta R.T. -0.22 min

Lab File: BF085304.D

Acq: 9 Mar 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-34-022516

Tgt Ion:165 Resp: 42171

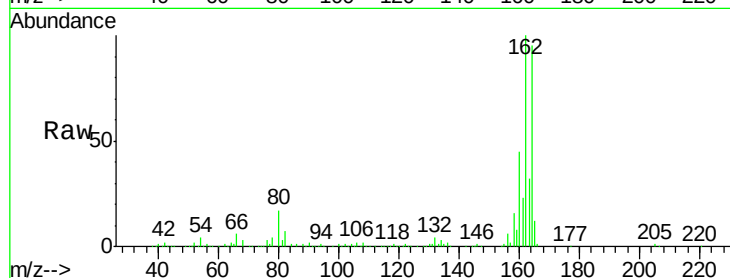
Ion Ratio Lower Upper

165 100

63 1.3 35.4 53.0#

89 1.5 61.9 92.9#

182 0.0 1.9 2.9#

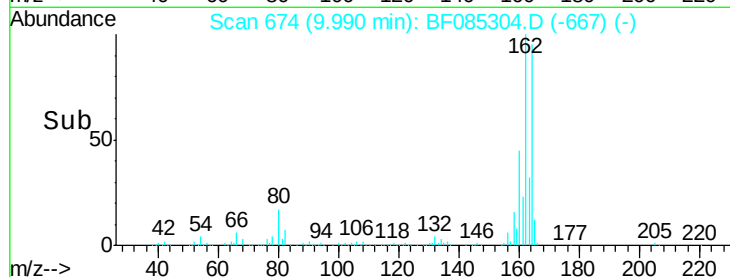


Abundance Ion 165.00 (164.70 to 165.70): E

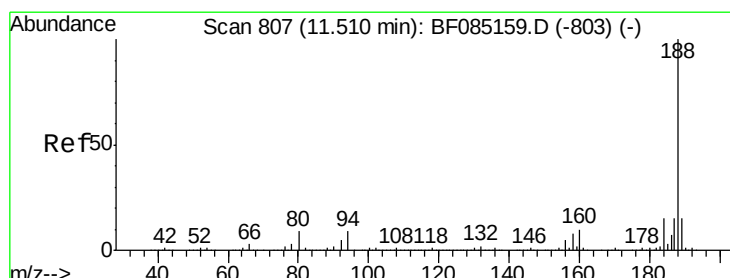
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.48 min Scan# 804

Delta R.T. -0.03 min

Lab File: BF085304.D

Acq: 9 Mar 2016 17:43

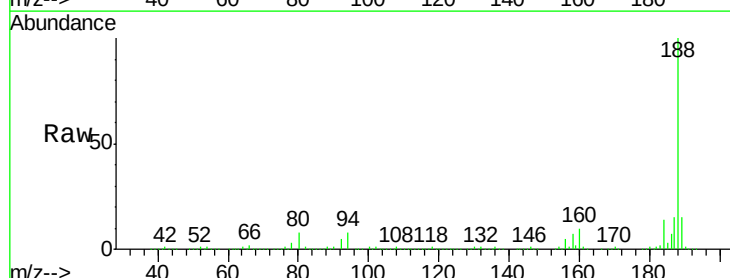
Tgt Ion:188 Resp: 685474

Ion Ratio Lower Upper

188 100

94 7.9 7.0 10.6

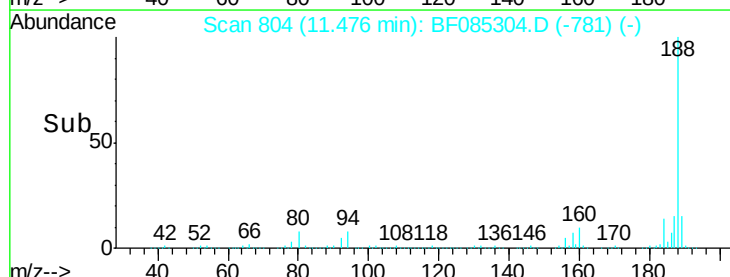
80 8.2 7.4 11.0



Abundance Ion 188.00 (187.70 to 188.70): E

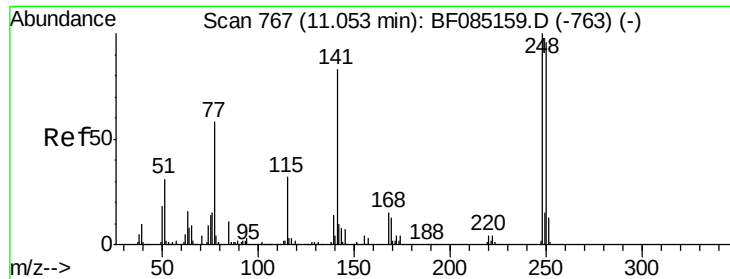
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



Time-->

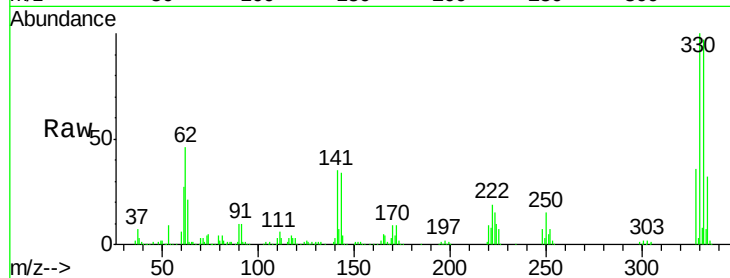




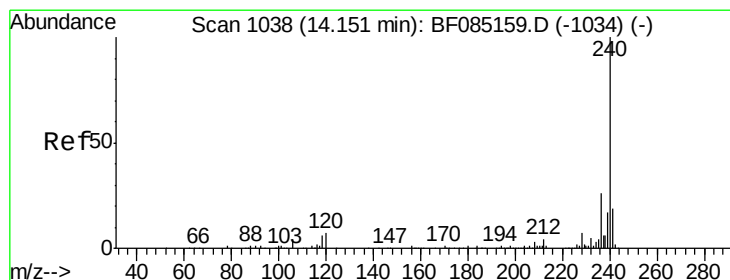
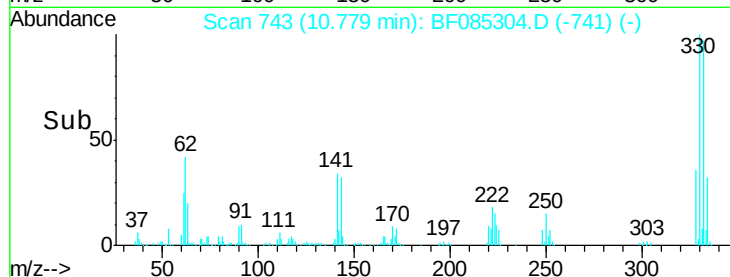
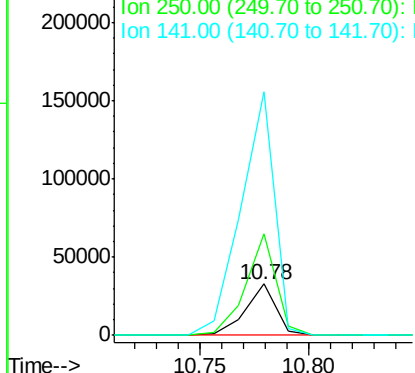
#66  
4-Bromophenyl-phenylether  
Concen: 4.79 ng  
RT: 10.78 min Scan# 743  
Delta R.T. -0.27 min  
Lab File: BF085304.D  
Acq: 9 Mar 2016 17:43

Instrument :  
BNA\_F  
ClientSampleId :  
HSR-WC-34-022516

Tgt Ion:248 Resp: 31873  
Ion Ratio Lower Upper  
248 100  
250 198.0 77.1 115.7#  
141 477.2 66.2 99.2#

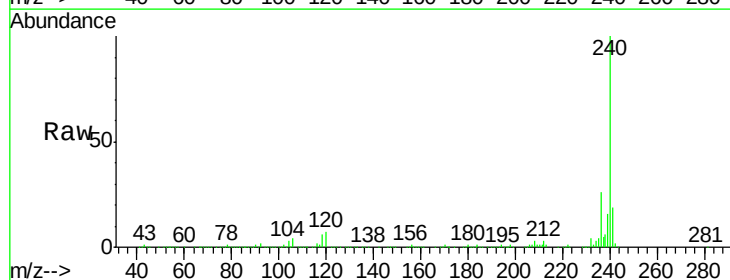


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

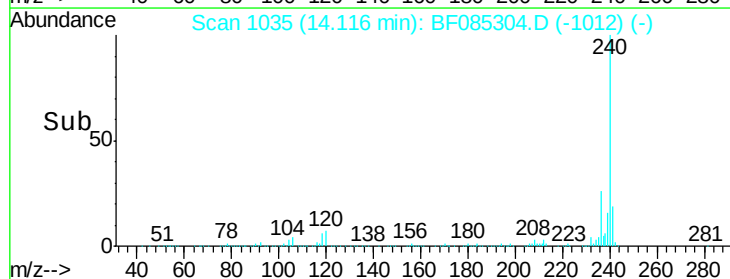
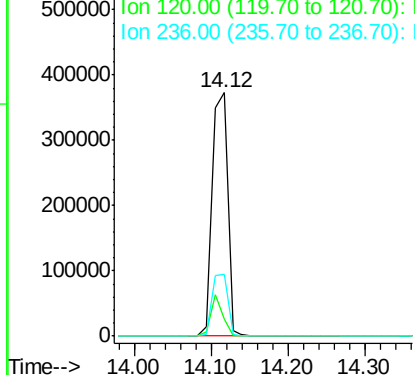


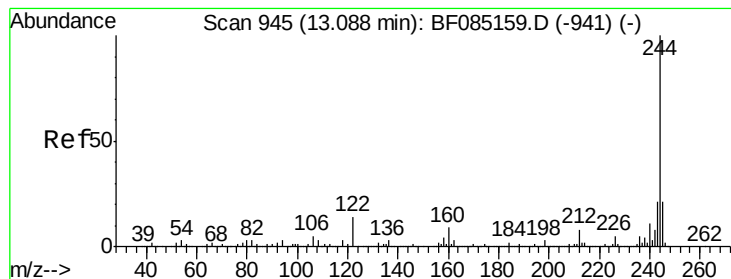
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.12 min Scan# 1035  
Delta R.T. -0.03 min  
Lab File: BF085304.D  
Acq: 9 Mar 2016 17:43

Tgt Ion:240 Resp: 516091  
Ion Ratio Lower Upper  
240 100  
120 7.1 5.3 7.9  
236 25.7 20.7 31.1



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: 81.24 ng

RT: 13.06 min Scan# 943

Delta R.T. -0.02 min

Lab File: BF085304.D

Acq: 9 Mar 2016 17:43

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-34-022516

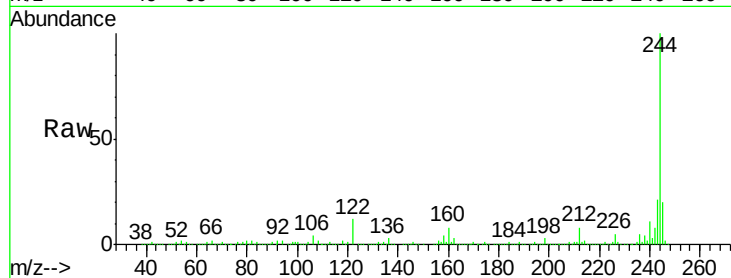
Tgt Ion:244 Resp: 1806188

Ion Ratio Lower Upper

244 100

212 7.8 6.4 9.6

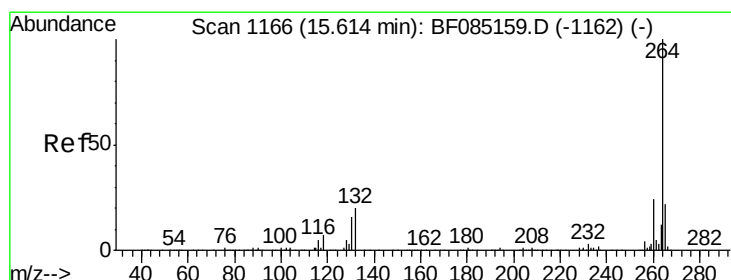
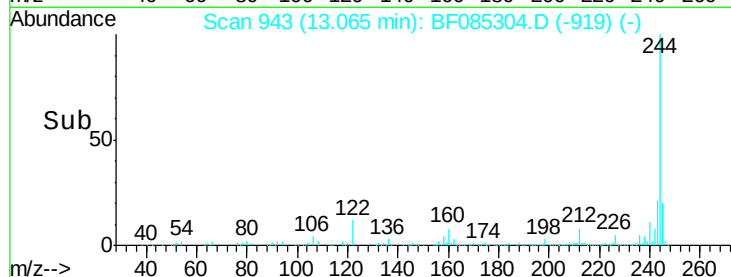
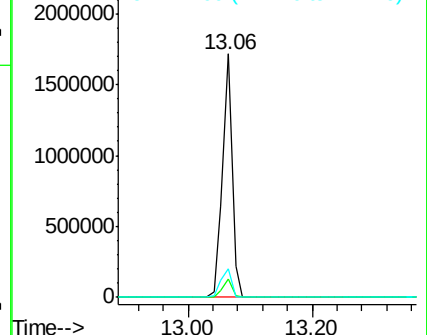
122 11.6 11.4 17.2



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: 15.57 min Scan# 1162

Delta R.T. -0.05 min

Lab File: BF085304.D

Acq: 9 Mar 2016 17:43

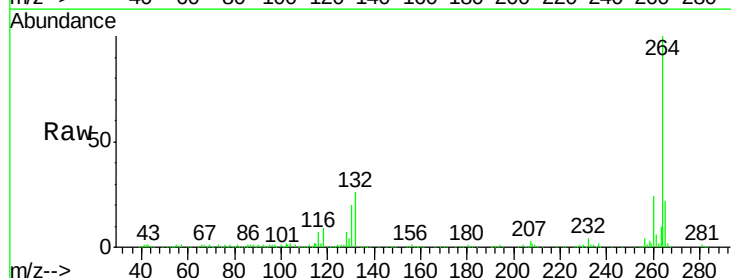
Tgt Ion:264 Resp: 335859

Ion Ratio Lower Upper

264 100

260 23.9 19.2 28.8

265 22.3 17.3 25.9



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

