

Data Path : Z:\HPCHEM1\BNA F\Data\BF012015\  
 Data File : BF076976.D  
 Acq On : 20 Jan 2015 23:04  
 Operator : IZ / TP  
 Sample : G1109-13  
 Misc : W  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 21 01:35:02 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF011415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 21 01:04:46 2015  
 Response via : Initial Calibration

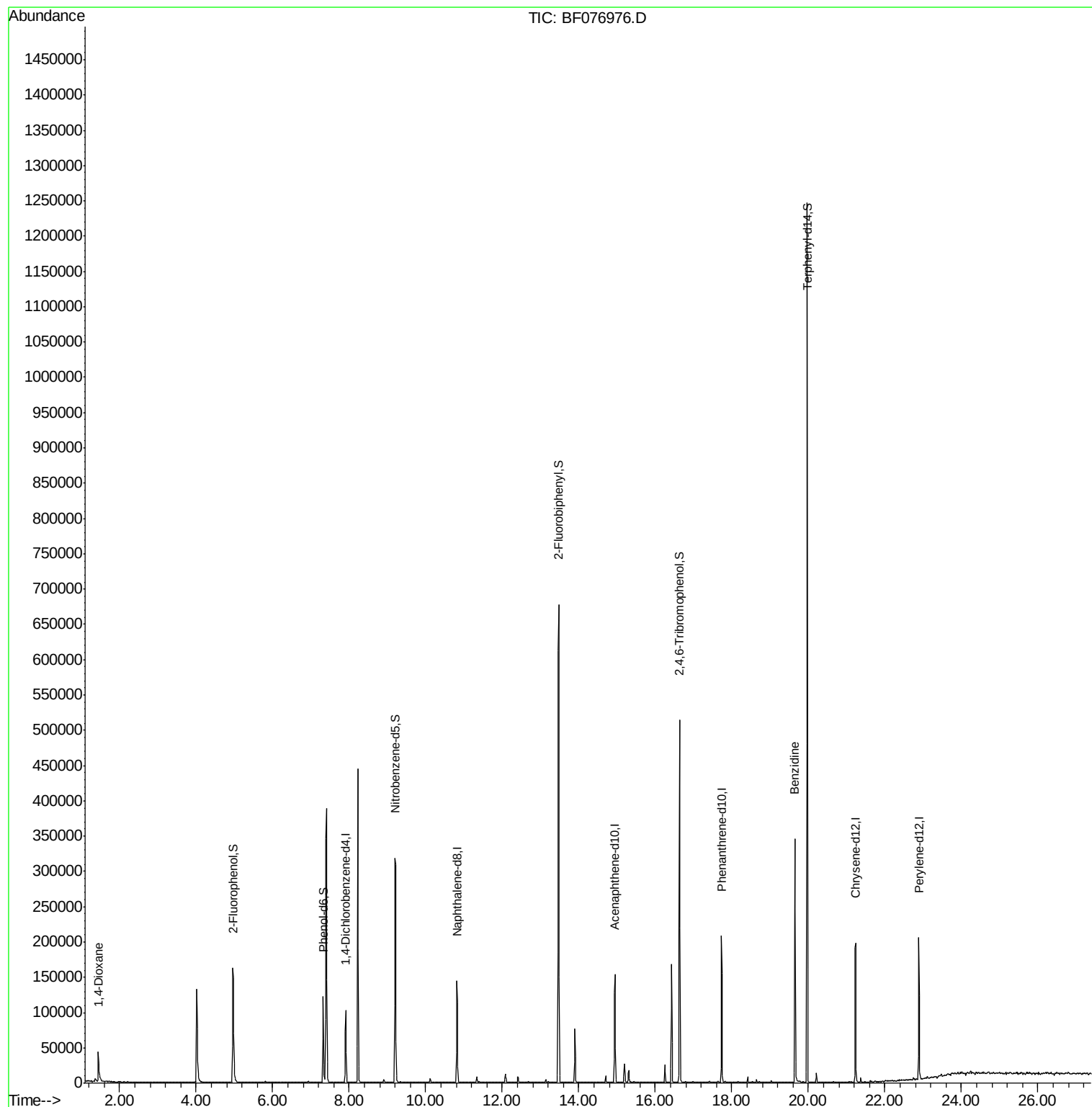
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|-----------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 7.91  | 152  | 27473    | 20.00     | ng    | 0.00        |
| 21) Naphthalene-d8          | 10.81 | 136  | 115704   | 20.00     | ng    | -0.01       |
| 38) Acenaphthene-d10        | 14.95 | 164  | 64167    | 20.00     | ng    | 0.00        |
| 63) Phenanthrene-d10        | 17.73 | 188  | 110566   | 20.00     | ng    | 0.00        |
| 75) Chrysene-d12            | 21.24 | 240  | 108504   | 20.00     | ng    | 0.00        |
| 86) Perylene-d12            | 22.88 | 264  | 97401    | 20.00     | ng    | 0.01        |
| System Monitoring Compounds |       |      |          |           |       |             |
| 5) 2-Fluorophenol           | 4.97  | 112  | 92366    | 55.28     | ng    | 0.01        |
| 7) Phenol-d6                | 7.32  | 99   | 74535    | 35.36     | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 9.20  | 82   | 190097   | 91.02     | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol    | 16.63 | 330  | 71306    | 136.90    | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 13.48 | 172  | 390279   | 92.56     | ng    | 0.00        |
| 78) Terphenyl-d14           | 19.97 | 244  | 441466   | 93.67     | ng    | 0.00        |
| Target Compounds            |       |      |          |           |       |             |
| 2) 1,4-Dioxane              | 1.44  | 88   | 1519     | 2.12      | ng    | Qvalue # 12 |
| 9) Benzaldehyde             | 6.94  | 77   | 604      | Below Cal |       | 90          |
| 76) Benzidine               | 19.65 | 184  | 188647   | 54.33     | ng    | 99          |

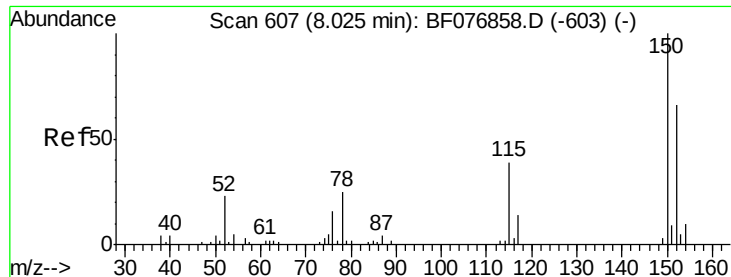
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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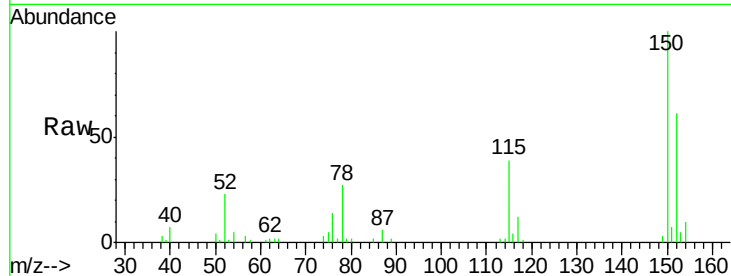


#1

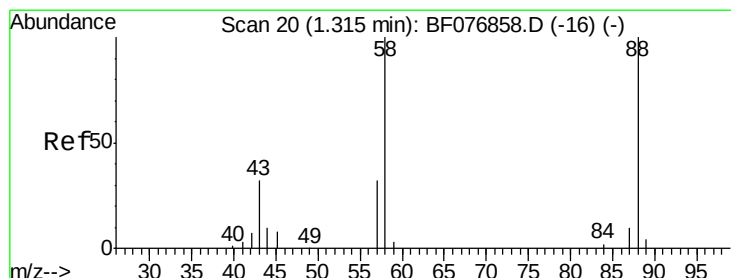
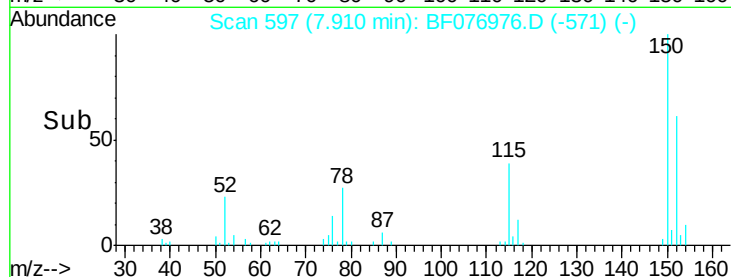
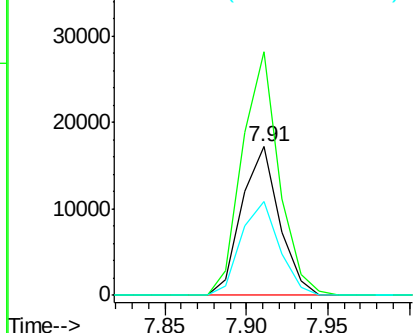
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.91 min Scan# 597  
Delta R.T. -0.00 min  
Lab File: BF076976.D  
Acq: 20 Jan 2015 23:04

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 27473  
Ion Ratio Lower Upper  
152 100  
150 163.9 121.7 182.5  
115 63.1 47.0 70.6



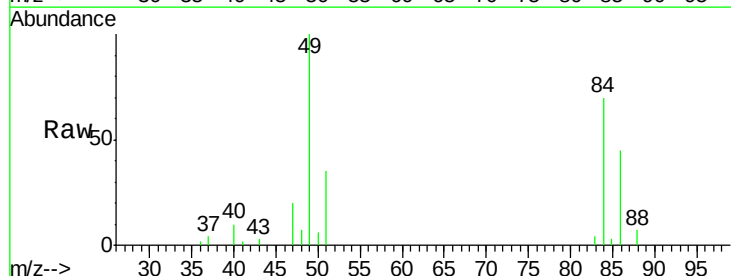
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



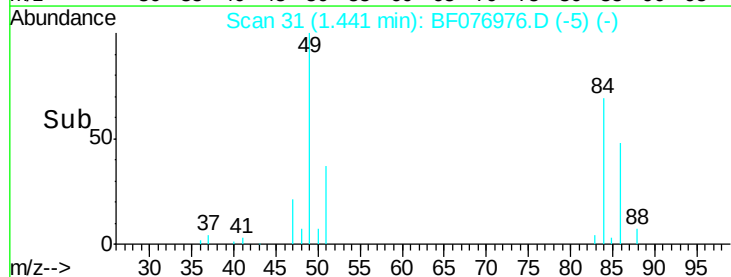
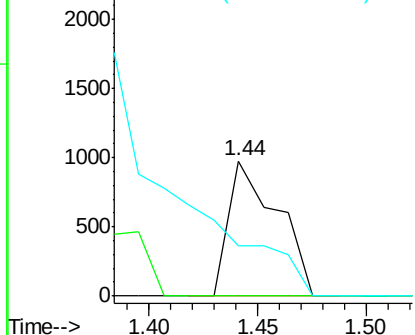
#2

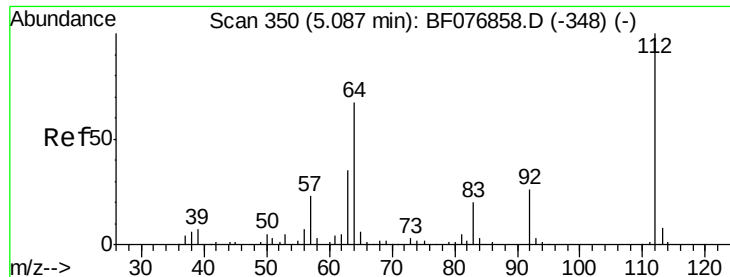
1,4-Dioxane  
Concen: 2.12 ng  
RT: 1.44 min Scan# 31  
Delta R.T. 0.19 min  
Lab File: BF076976.D  
Acq: 20 Jan 2015 23:04

Tgt Ion: 88 Resp: 1519  
Ion Ratio Lower Upper  
88 100  
58 0.0 77.0 115.4#  
43 0.0 25.6 38.4#



Abundance Ion 88.00 (87.70 to 88.70): BF0  
Ion 58.00 (57.70 to 58.70): BF0  
Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 55.28 ng

RT: 4.97 min Scan# 340

Delta R.T. 0.01 min

Lab File: BF076976.D

Acq: 20 Jan 2015 23:04

Instrument :

BNA\_F

ClientSampled :

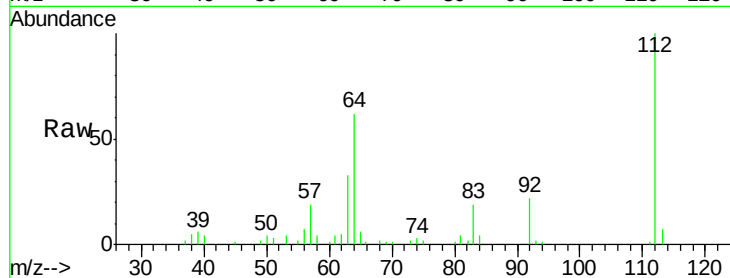
Tot Ion: 112 Resp: 92366

Ion Ratio Lower Upper

112 100

64 61.8 54.2 81.4

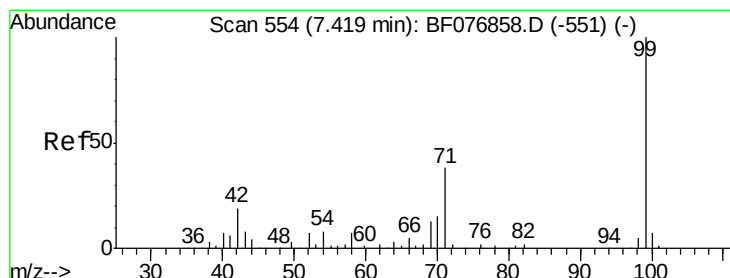
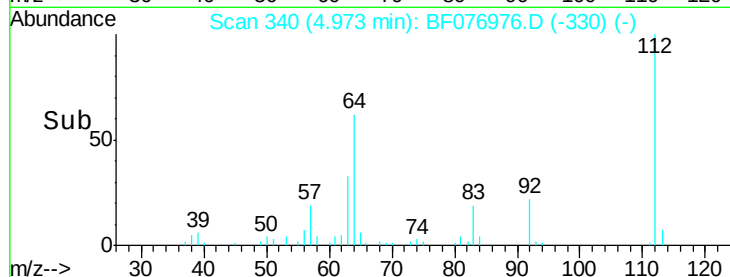
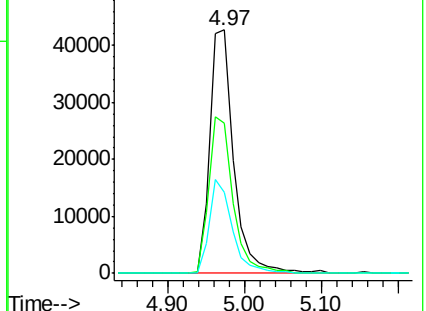
63 33.2 28.4 42.6



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: 35.36 ng

RT: 7.32 min Scan# 545

Delta R.T. -0.00 min

Lab File: BF076976.D

Acq: 20 Jan 2015 23:04

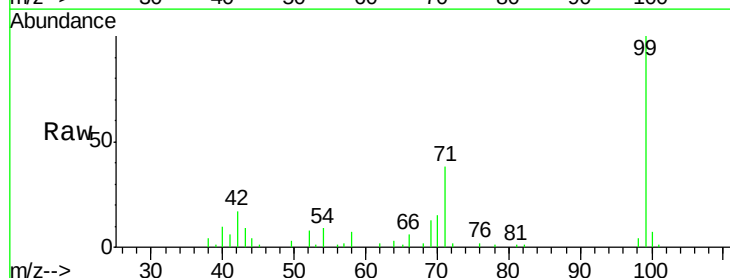
Tgt Ion: 99 Resp: 74535

Ion Ratio Lower Upper

99 100

42 17.5 15.0 22.4

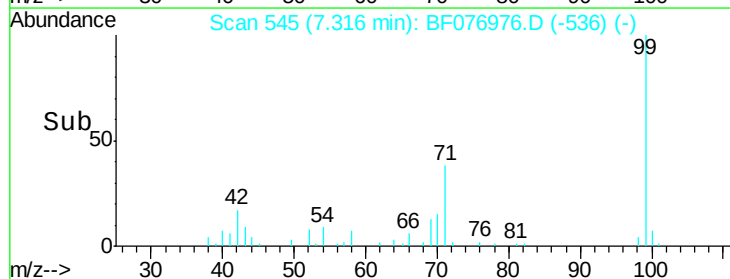
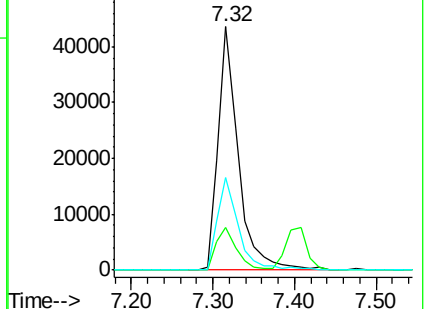
71 37.9 30.5 45.7

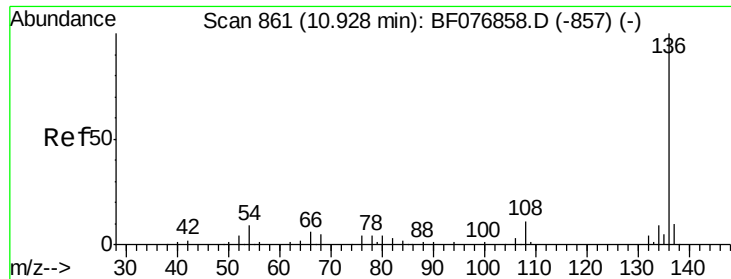


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

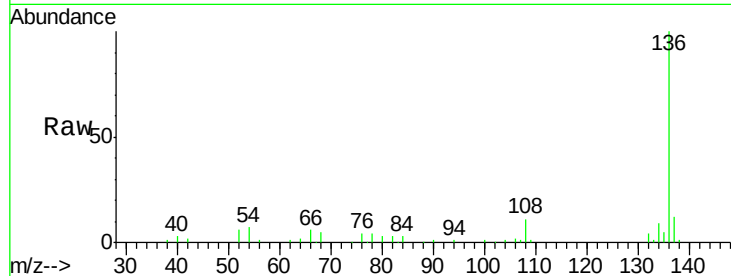




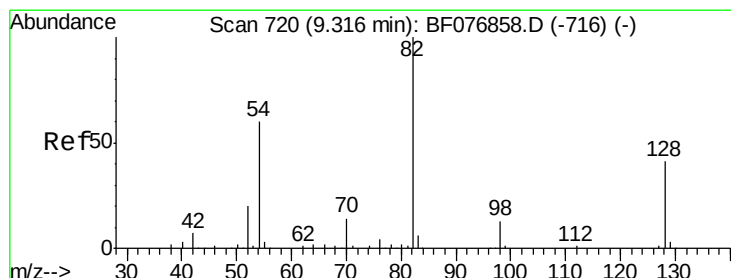
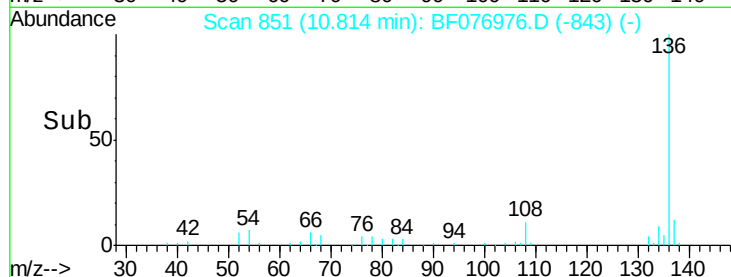
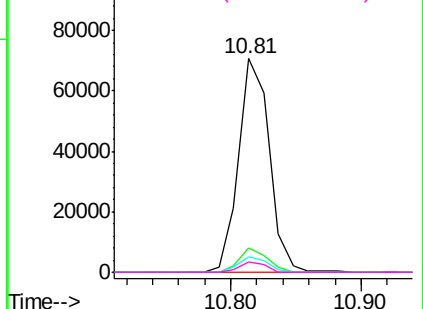
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.81 min Scan# 851  
Delta R.T. -0.01 min  
Lab File: BF076976.D  
Acq: 20 Jan 2015 23:04

Instrument :  
BNA\_F  
ClientSampled :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 115704      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.7  | 8.1 12.1    |
| 54          | 7.4   | 7.0 10.4    |
| 68          | 4.7   | 3.7 5.5     |

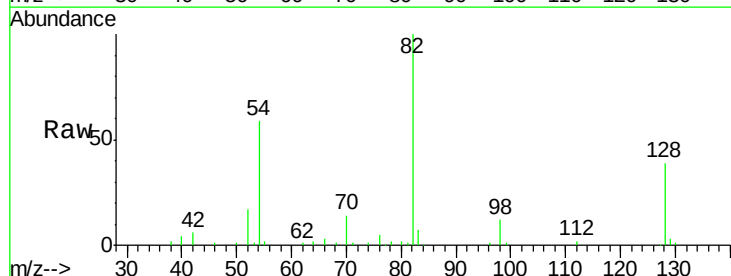


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

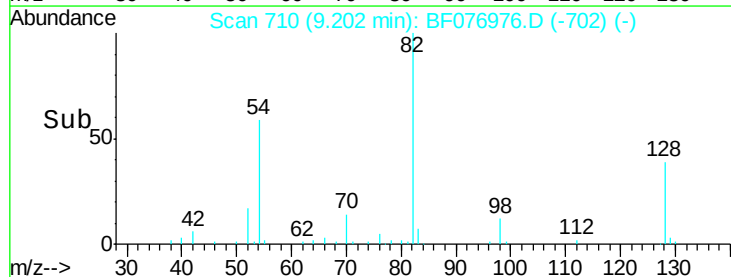
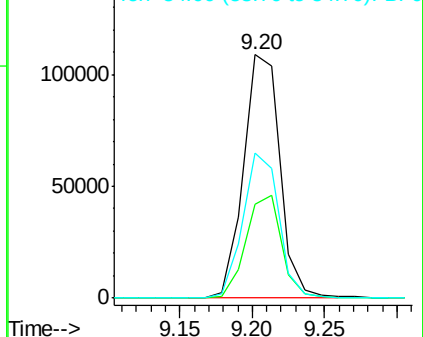


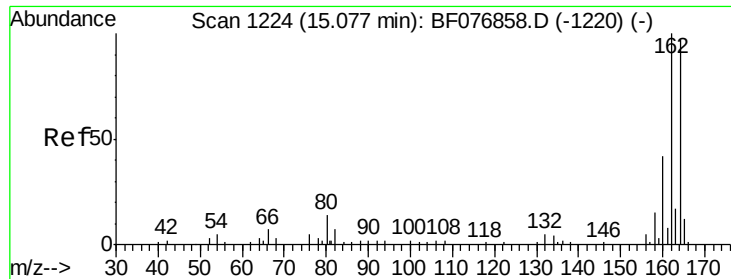
#23  
Nitrobenzene-d5  
Concen: 91.02 ng  
RT: 9.20 min Scan# 710  
Delta R.T. -0.01 min  
Lab File: BF076976.D  
Acq: 20 Jan 2015 23:04

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 190097      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 38.7  | 33.1 49.7   |
| 54          | 59.5  | 48.3 72.5   |



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

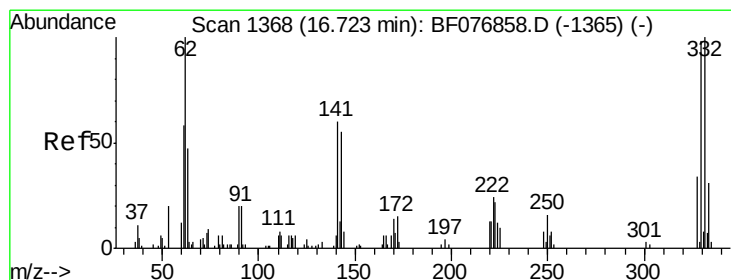
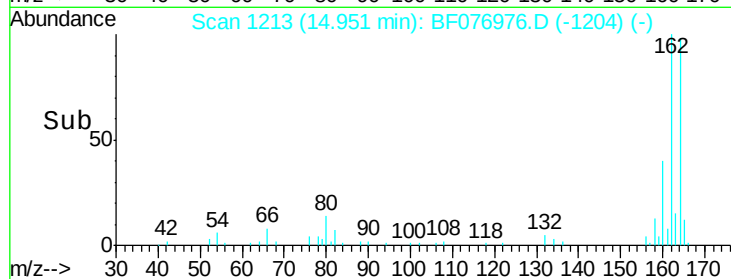
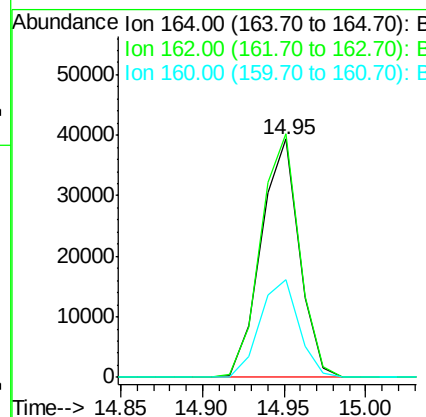
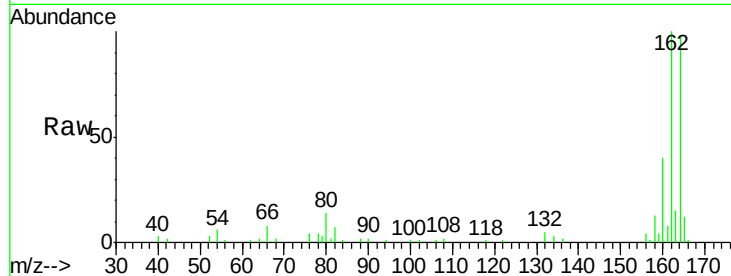




#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.95 min Scan# 1213  
 Delta R.T. -0.00 min  
 Lab File: BF076976.D  
 Acq: 20 Jan 2015 23:04

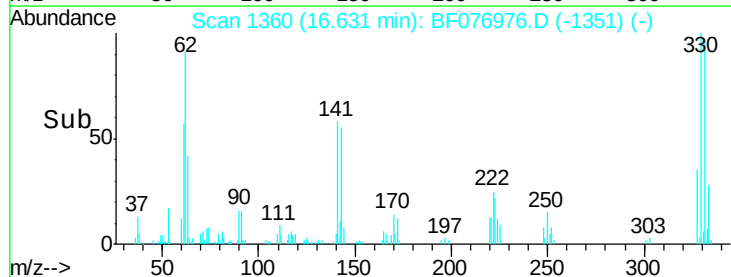
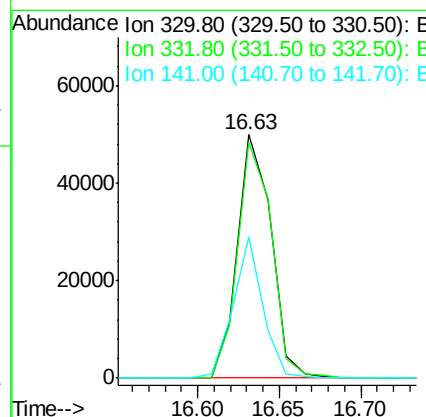
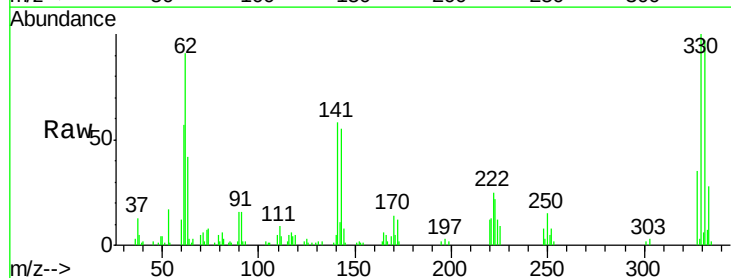
Instrument :  
 BNA\_F  
 ClientSampleId :

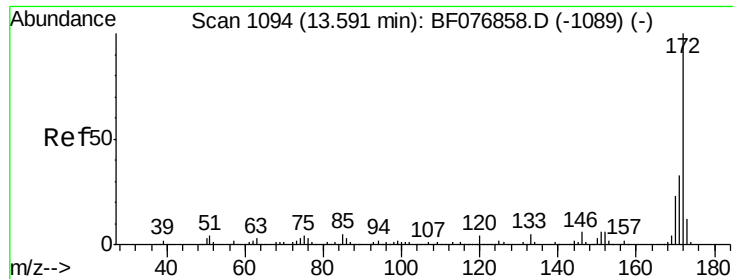
Tot Ion:164 Resp: 64167  
 Ion Ratio Lower Upper  
 164 100  
 162 102.1 82.4 123.6  
 160 41.2 34.8 52.2



#41  
 2,4,6-Tribromophenol  
 Concen: 136.90 ng  
 RT: 16.63 min Scan# 1360  
 Delta R.T. -0.00 min  
 Lab File: BF076976.D  
 Acq: 20 Jan 2015 23:04

Tgt Ion:330 Resp: 71306  
 Ion Ratio Lower Upper  
 330 100  
 332 97.7 77.8 116.6  
 141 50.8 38.5 57.7

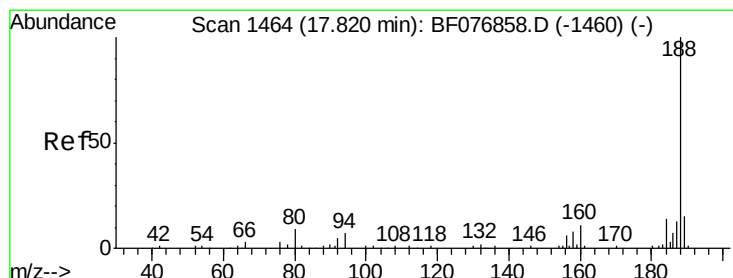
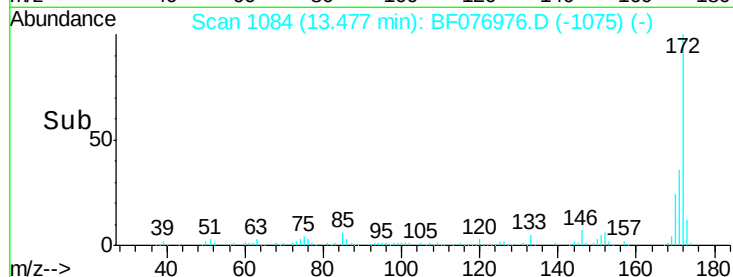
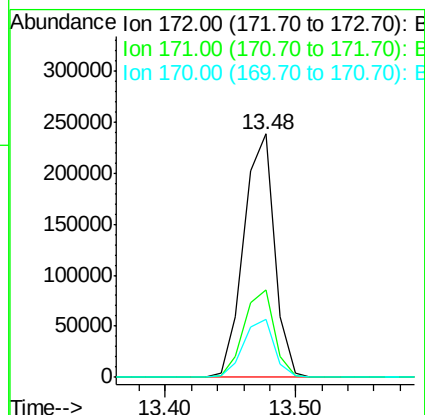
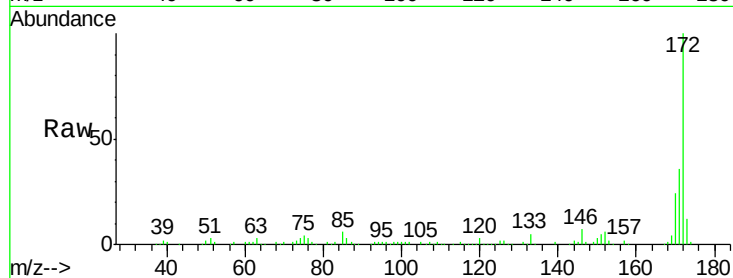




#44  
2-Fluorobiphenyl  
Concen: 92.56 ng  
RT: 13.48 min Scan# 1084  
Delta R.T. -0.00 min  
Lab File: BF076976.D  
Acq: 20 Jan 2015 23:04

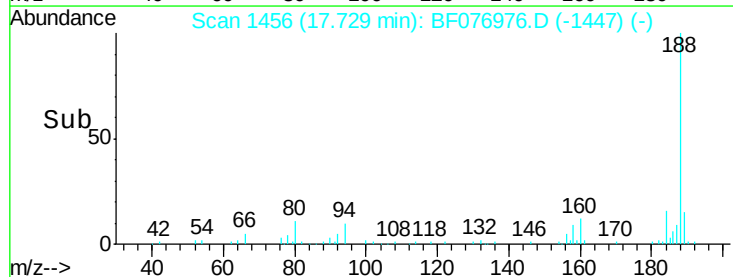
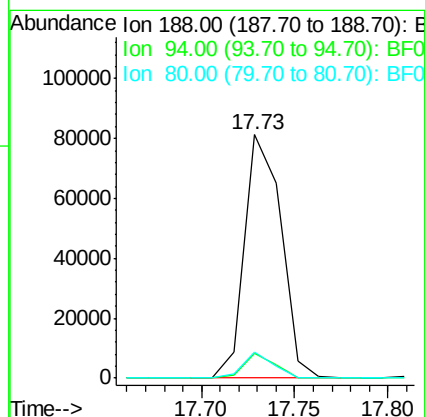
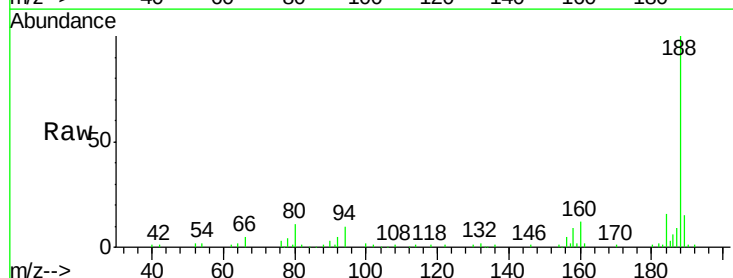
Instrument :  
BNA\_F  
ClientSampleId :

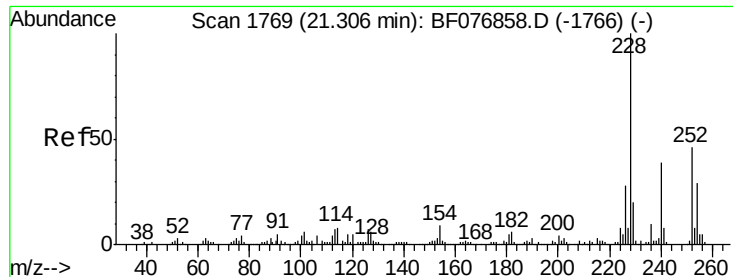
Tot Ion:172 Resp: 390279  
Ion Ratio Lower Upper  
172 100  
171 35.8 26.6 40.0  
170 23.9 18.0 27.0



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.73 min Scan# 1456  
Delta R.T. -0.00 min  
Lab File: BF076976.D  
Acq: 20 Jan 2015 23:04

Tgt Ion:188 Resp: 110566  
Ion Ratio Lower Upper  
188 100  
94 10.2 6.0 9.0#  
80 10.7 6.9 10.3#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.24 min Scan# 1763

Delta R.T. -0.00 min

Lab File: BF076976.D

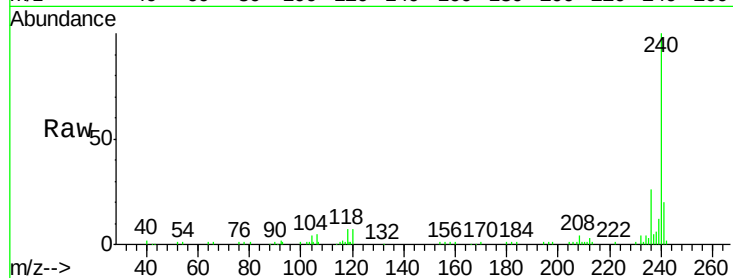
Acq: 20 Jan 2015 23:04

Instrument :

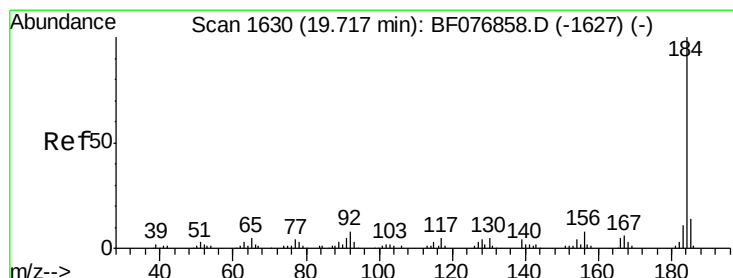
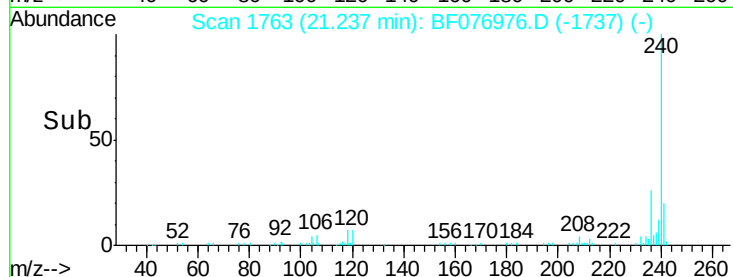
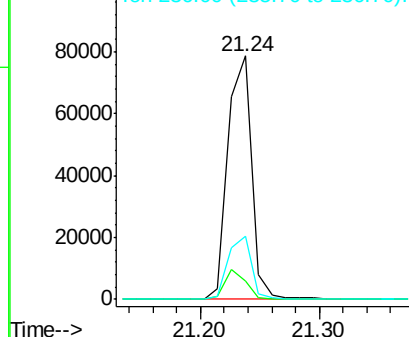
BNA\_F

ClientSampleId :

Tot Ion:240 Resp: 108504  
 Ion Ratio Lower Upper  
 240 100  
 120 7.4 10.4 15.6#  
 236 25.9 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



#76

Benzidine

Concen: 54.33 ng

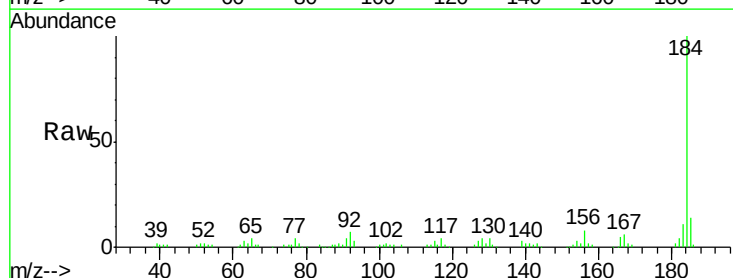
RT: 19.65 min Scan# 1624

Delta R.T. -0.00 min

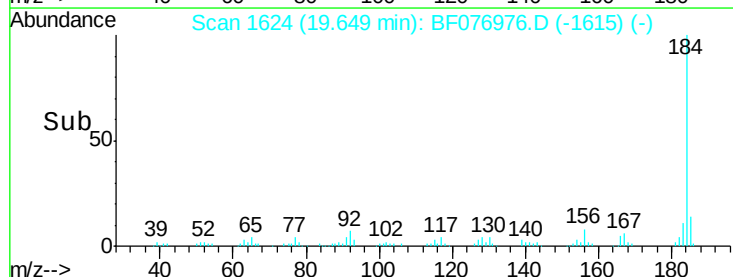
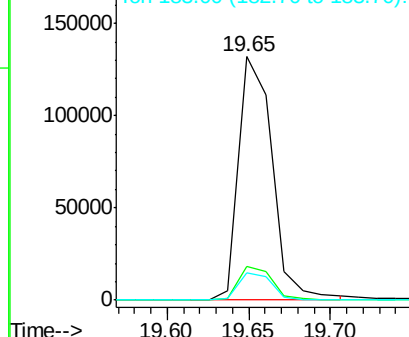
Lab File: BF076976.D

Acq: 20 Jan 2015 23:04

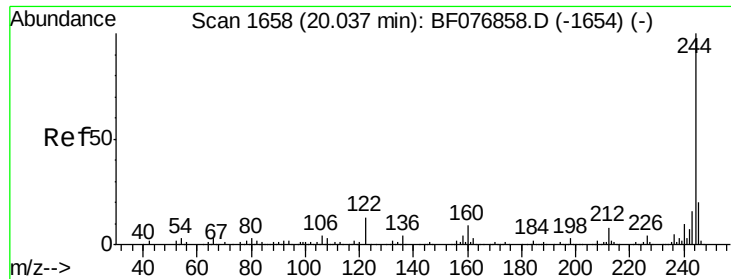
Tgt Ion:184 Resp: 188647  
 Ion Ratio Lower Upper  
 184 100  
 185 13.9 11.4 17.2  
 183 11.3 9.0 13.6



Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 185.00 (184.70 to 185.70): E  
 Ion 183.00 (182.70 to 183.70): E







#78

Terphenyl-d14

Concen: 93.67 ng

RT: 19.97 min Scan# 1652

Delta R.T. -0.00 min

Lab File: BF076976.D

Acq: 20 Jan 2015 23:04

Instrument :

BNA\_F

ClientSampleId :

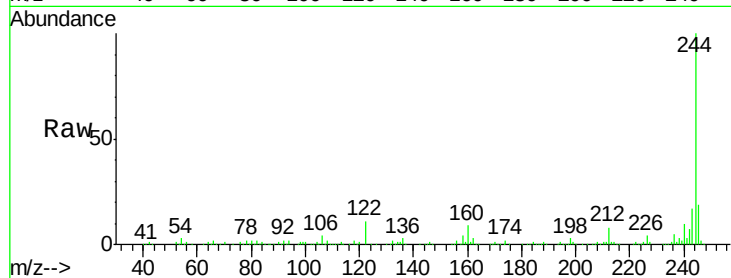
Tot Ion:244 Resp: 441466

Ion Ratio Lower Upper

244 100

212 7.7 6.3 9.5

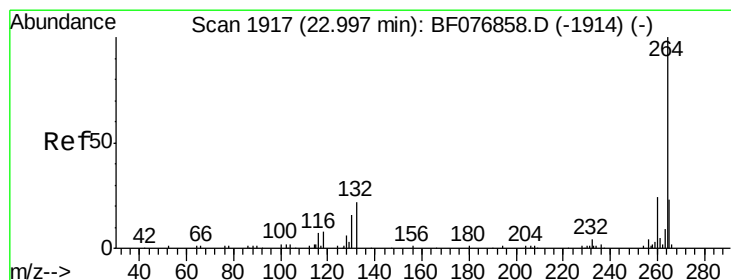
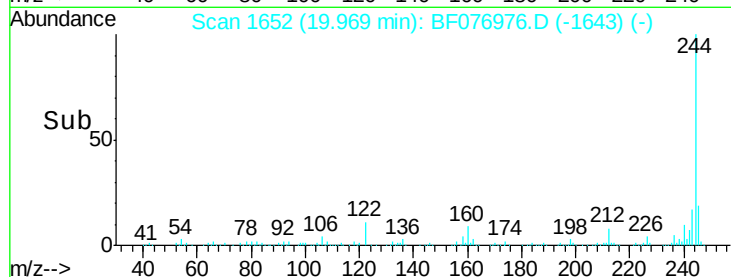
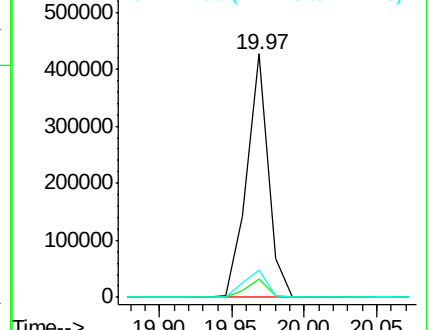
122 11.3 10.1 15.1



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: 22.88 min Scan# 1907

Delta R.T. 0.01 min

Lab File: BF076976.D

Acq: 20 Jan 2015 23:04

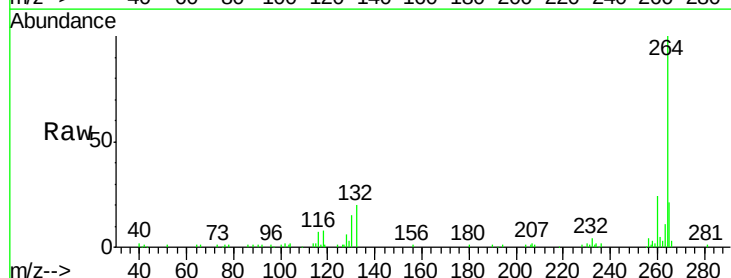
Tgt Ion:264 Resp: 97401

Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.4

265 21.2 18.1 27.1



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

