

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041516\  
 Data File : BF086234.D  
 Acq On : 15 Apr 2016 23:35  
 Operator : UM/SJ  
 Sample : H2402-10  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GW-WASTE-CHARACTERIZATION-

Quant Time: Apr 16 00:30:27 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF041516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 15 15:56:31 2016  
 Response via : Initial Calibration

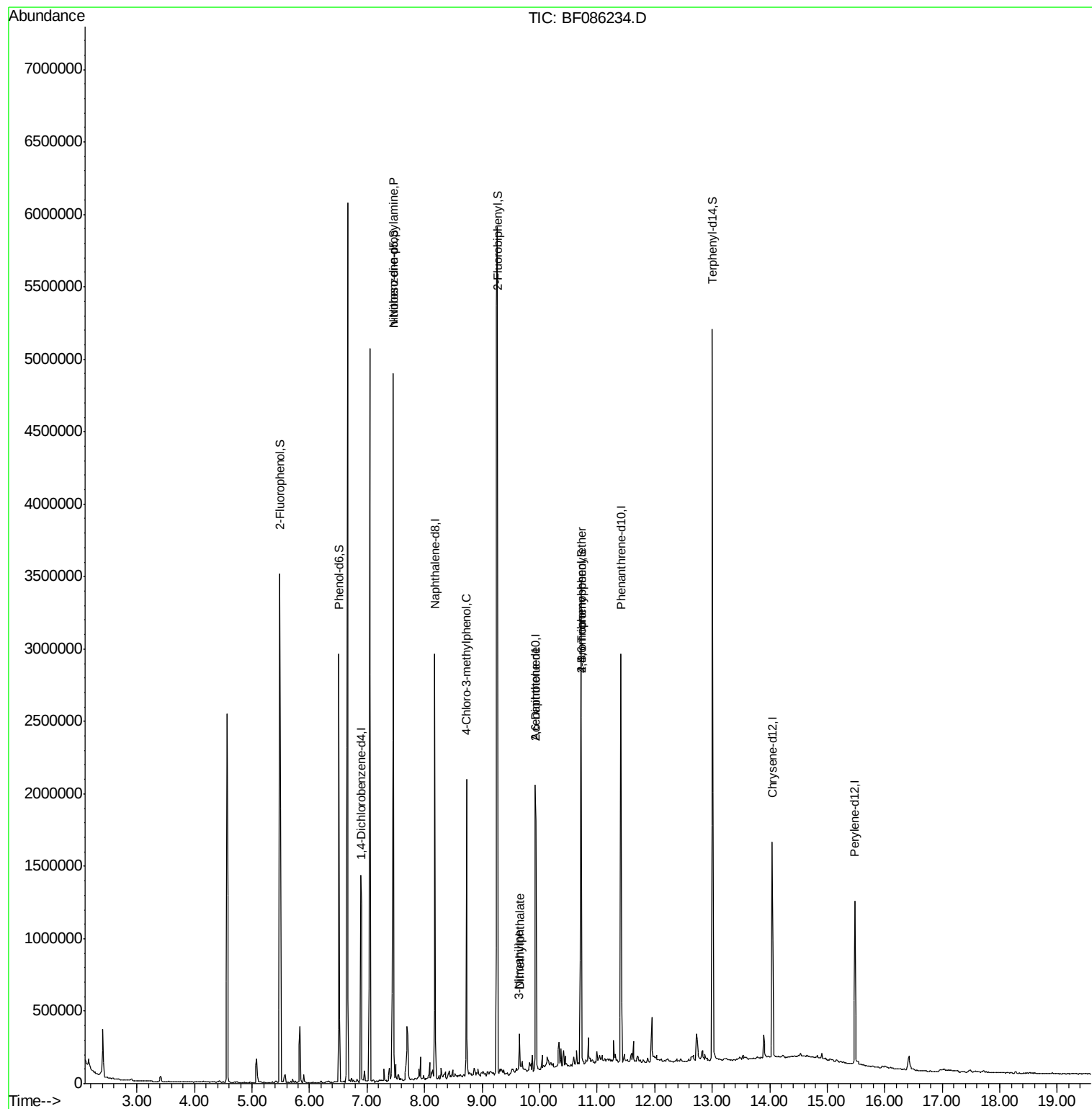
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.90  | 152  | 301705   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.18  | 136  | 1224399  | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.93  | 164  | 540675   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.41 | 188  | 936432   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 14.04 | 240  | 582171   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 15.48 | 264  | 478069   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.48  | 112  | 1233124  | 66.97     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.51  | 99   | 949844   | 41.24     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.46  | 82   | 1756306  | 82.73     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.73 | 330  | 554908   | 127.81    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.26  | 172  | 2689269  | 91.78     | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.00 | 244  | 1858125  | 80.26     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.46  | 70   | 251738   | 17.08     | ng    | # 83     |
| 22) Acetophenone               | 7.30  | 105  | 12869    | Below Cal |       | # 95     |
| 36) 4-Chloro-3-methylphenol    | 8.73  | 107  | 49338    | 2.74      | ng    | # 19     |
| 49) Dimethylphthalate          | 9.65  | 163  | 119647   | 3.04      | ng    | # 97     |
| 50) 2,6-Dinitrotoluene         | 9.93  | 165  | 70289    | 8.08      | ng    | # 33     |
| 52) 3-Nitroaniline             | 9.64  | 138  | 53037    | 5.02      | ng    | # 38     |
| 57) Fluorene                   | 10.48 | 166  | 2845     | Below Cal |       | # 46     |
| 66) 4-Bromophenyl-phenylether  | 10.73 | 248  | 34652    | 3.97      | ng    | # 1      |
| 71) Anthracene                 | 11.48 | 178  | 3776     | Below Cal |       | # 62     |
| 74) Fluoranthene               | 12.62 | 202  | 5139     | Below Cal |       | # 87     |

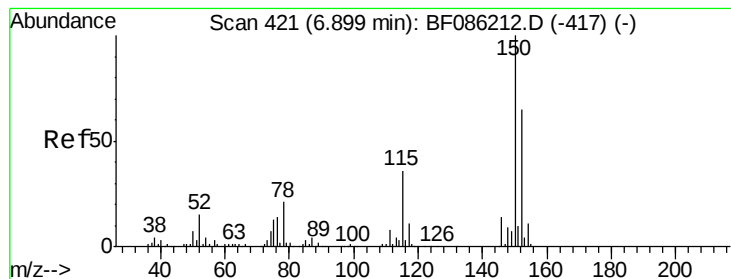
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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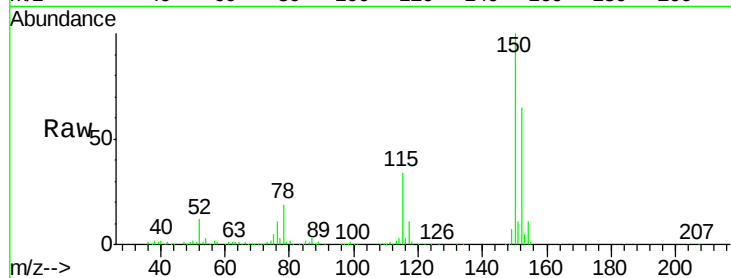




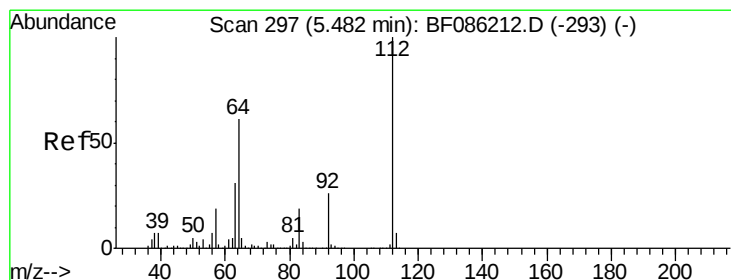
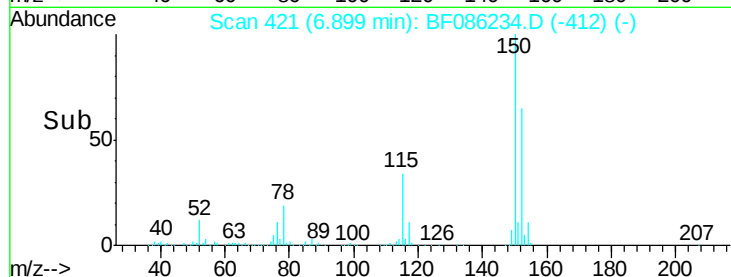
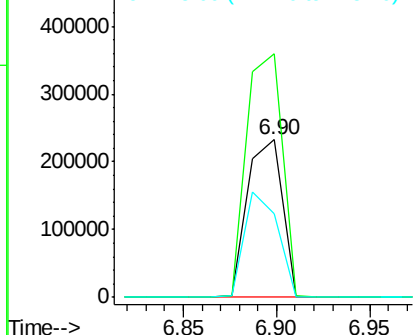
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.90 min Scan# 421  
 Delta R.T. -0.00 min  
 Lab File: BF086234.D  
 Acq: 15 Apr 2016 23:35

Instrument :  
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Tgt Ion:152 Resp: 301705  
 Ion Ratio Lower Upper  
 152 100  
 150 154.3 124.1 186.1  
 115 53.0 43.9 65.9

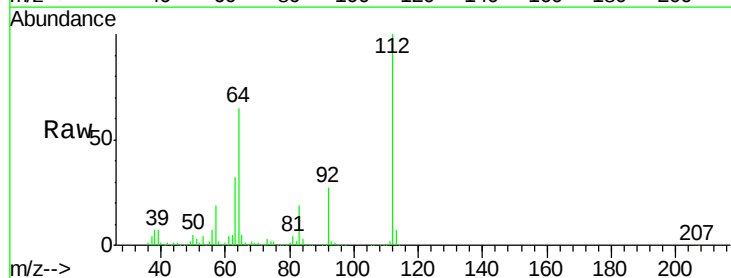


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

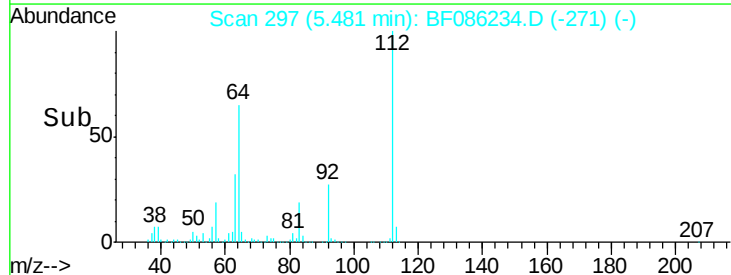
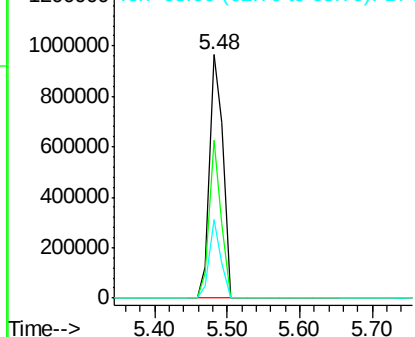


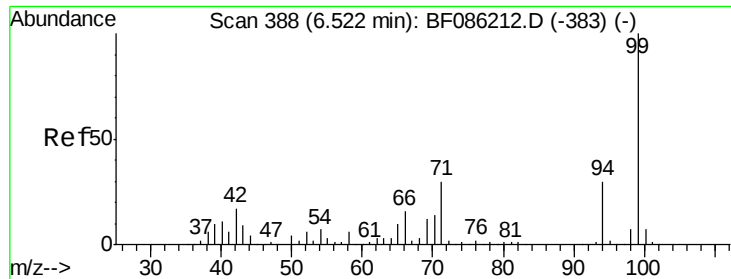
#5  
 2-Fluorophenol  
 Concen: 66.97 ng  
 RT: 5.48 min Scan# 297  
 Delta R.T. 0.00 min  
 Lab File: BF086234.D  
 Acq: 15 Apr 2016 23:35

Tgt Ion:112 Resp: 1233124  
 Ion Ratio Lower Upper  
 112 100  
 64 65.1 48.1 72.1  
 63 32.4 25.5 38.3



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: 41.24 ng

RT: 6.51 min Scan# 387

Delta R.T. -0.01 min

Lab File: BF086234.D

Acq: 15 Apr 2016 23:35

Instrument :

BNA\_F

ClientSampleId :

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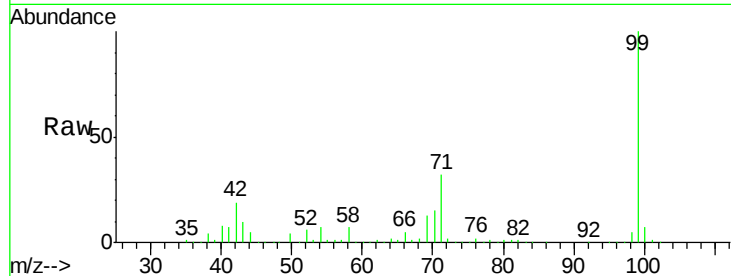
Tgt Ion: 99 Resp: 949844

Ion Ratio Lower Upper

99 100

42 19.4 15.4 23.2

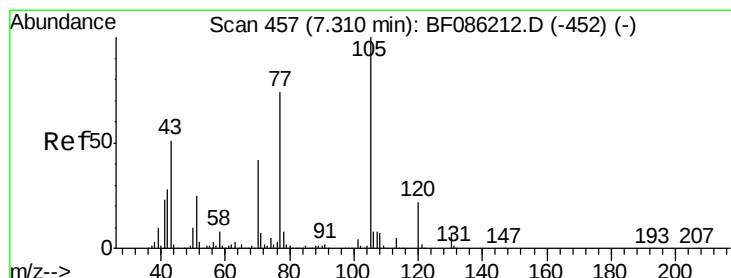
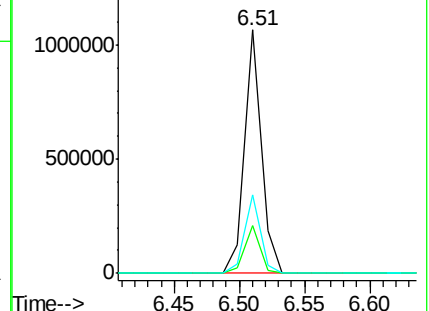
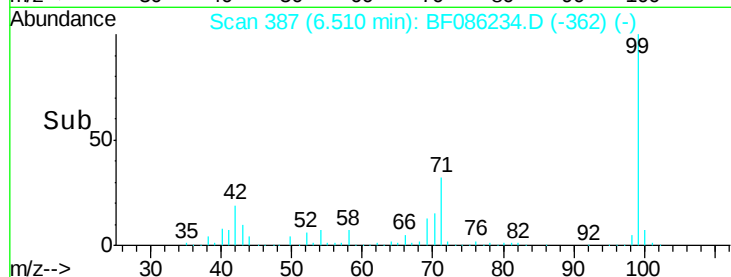
71 32.3 25.6 38.4



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: 17.08 ng

RT: 7.46 min Scan# 470

Delta R.T. 0.15 min

Lab File: BF086234.D

Acq: 15 Apr 2016 23:35

Tgt Ion: 70 Resp: 251738

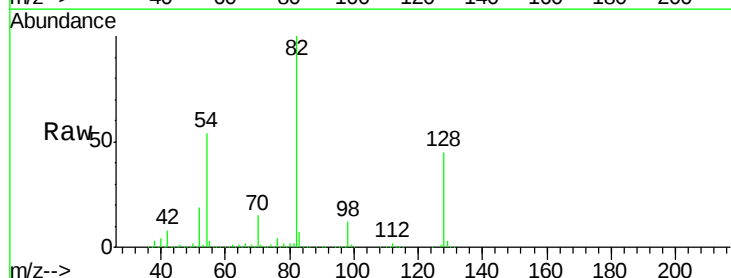
Ion Ratio Lower Upper

70 100

42 52.2 43.0 64.4

101 0.0 8.1 12.1#

130 2.0 20.1 30.1#

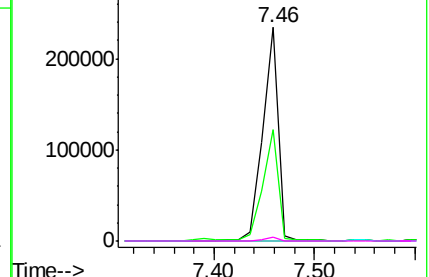
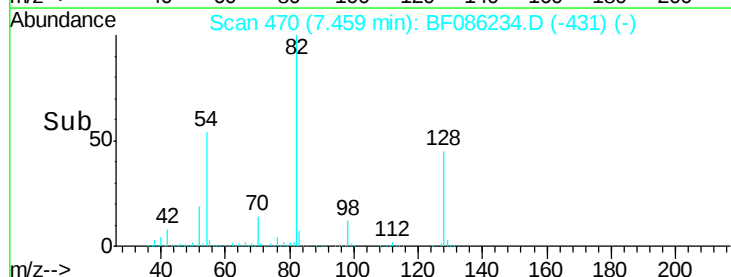


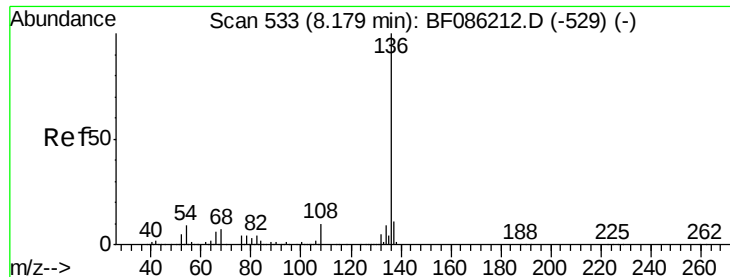
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E

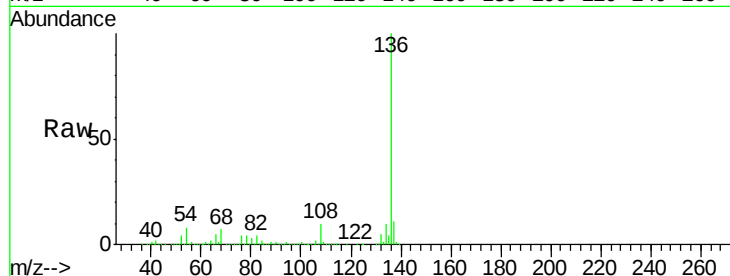




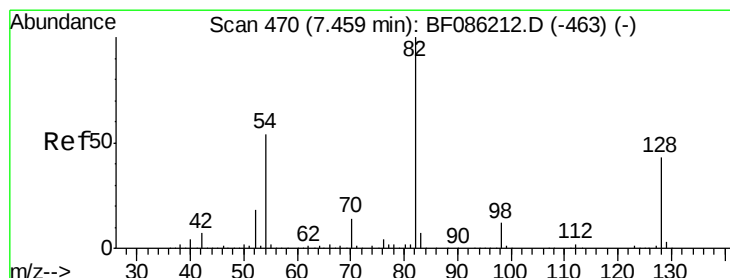
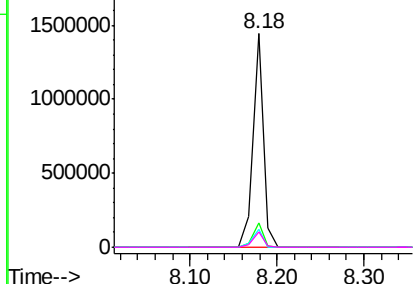
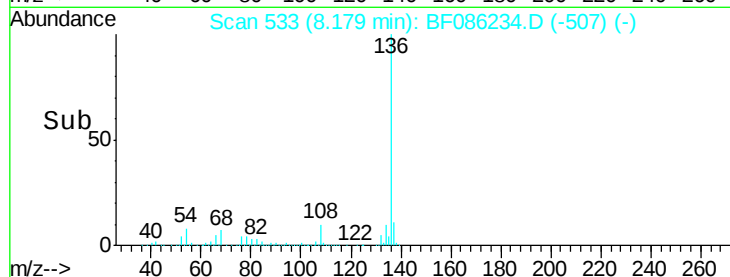
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.18 min Scan# 533  
Delta R.T. -0.00 min  
Lab File: BF086234.D  
Acq: 15 Apr 2016 23:35

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|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 136   | Resp: | 1224399 |
| Ion      | Ratio | Lower | Upper   |
| 136      | 100   |       |         |
| 137      | 11.4  | 9.1   | 13.7    |
| 54       | 8.4   | 7.3   | 10.9    |
| 68       | 6.9   | 5.7   | 8.5     |

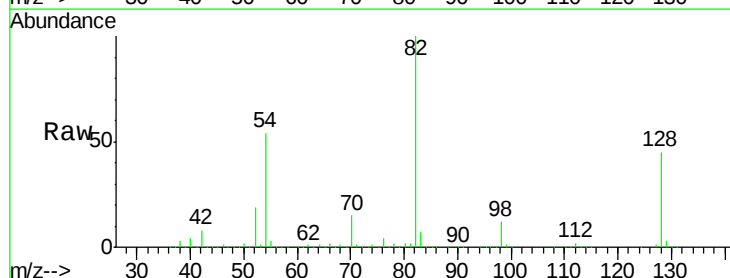


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

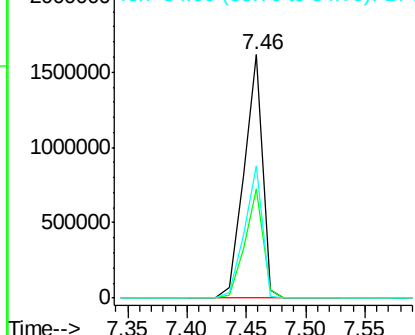
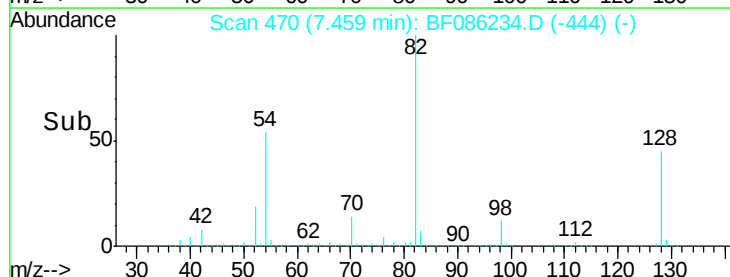


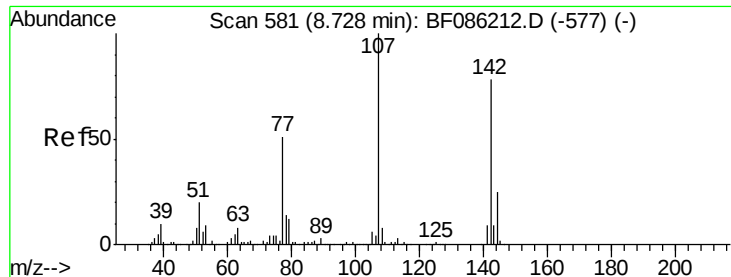
#23  
Nitrobenzene-d5  
Concen: 82.73 ng  
RT: 7.46 min Scan# 470  
Delta R.T. -0.00 min  
Lab File: BF086234.D  
Acq: 15 Apr 2016 23:35

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1756306 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 45.0  | 35.4  | 53.2    |
| 54       | 54.4  | 43.4  | 65.0    |



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

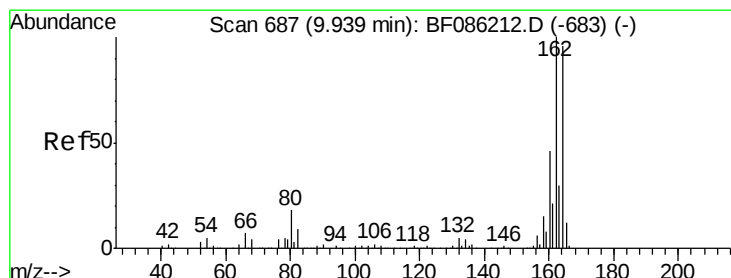
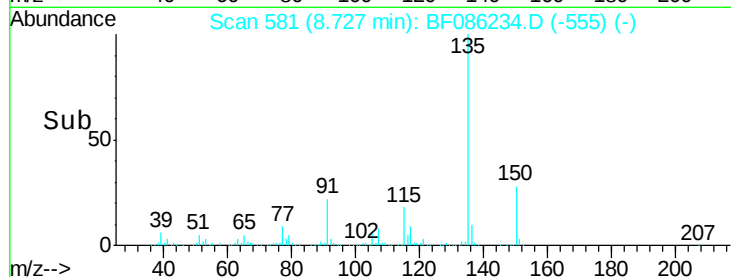
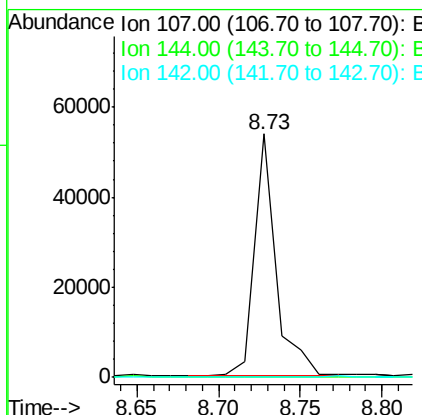
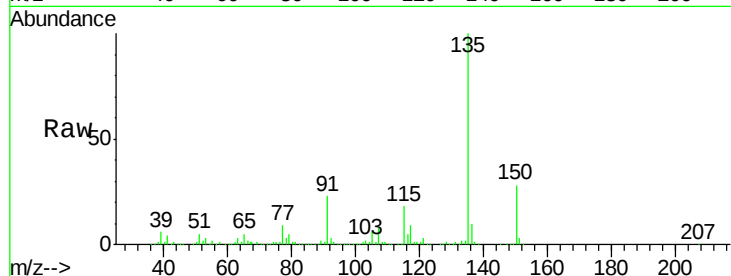




#36  
 4-Chloro-3-methylphenol  
 Concen: 2.74 ng  
 RT: 8.73 min Scan# 581  
 Delta R.T. -0.00 min  
 Lab File: BF086234.D  
 Acq: 15 Apr 2016 23:35

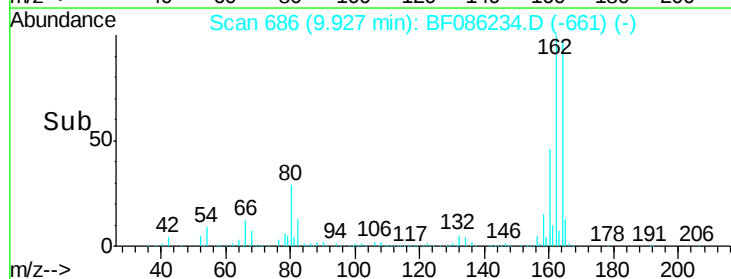
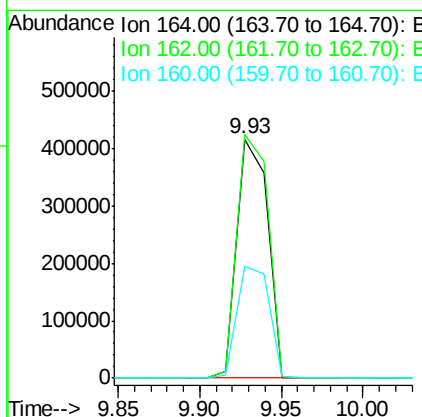
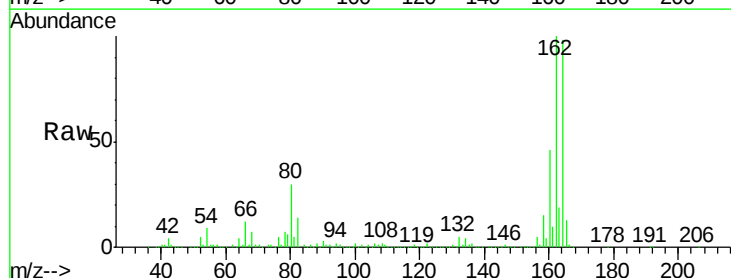
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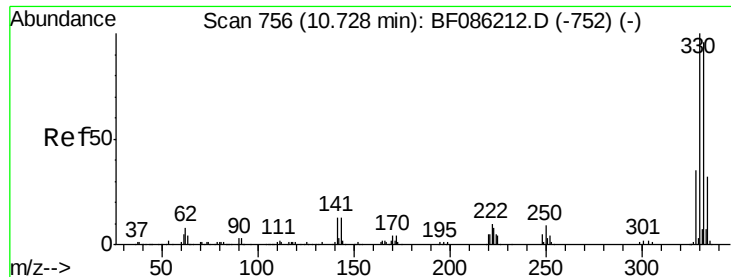
Tgt Ion:107 Resp: 49338  
 Ion Ratio Lower Upper  
 107 100  
 144 0.0 20.7 31.1#  
 142 0.0 64.5 96.7#



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.93 min Scan# 686  
 Delta R.T. -0.01 min  
 Lab File: BF086234.D  
 Acq: 15 Apr 2016 23:35

Tgt Ion:164 Resp: 540675  
 Ion Ratio Lower Upper  
 164 100  
 162 102.0 82.8 124.2  
 160 46.8 38.9 58.3

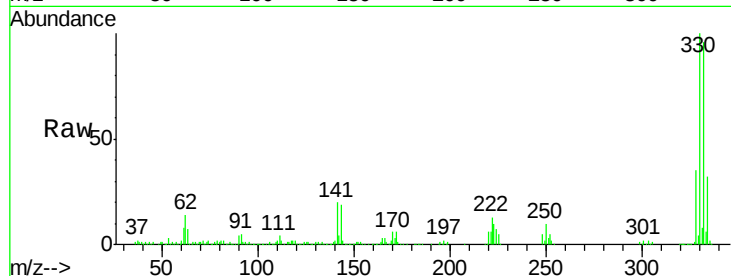




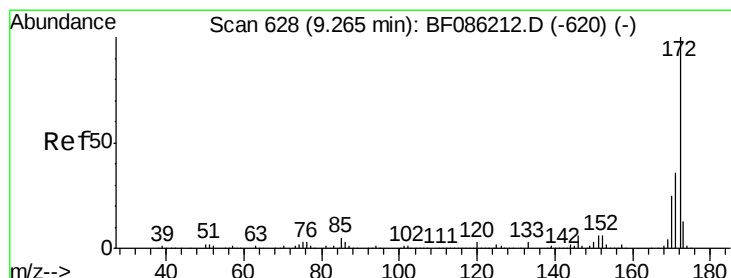
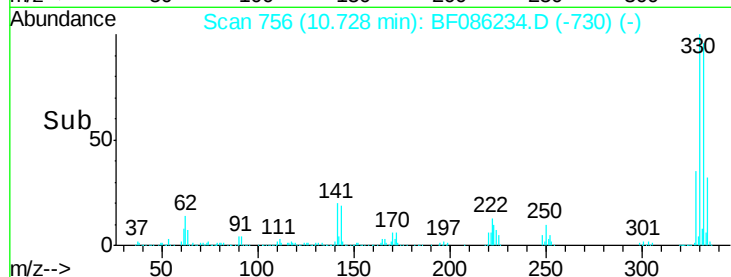
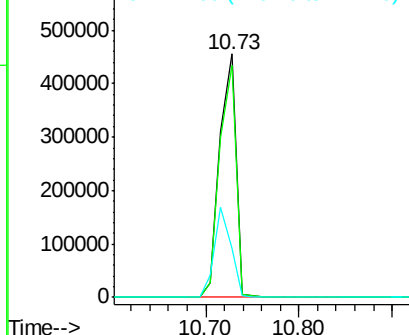
#41  
 2,4,6-Tribromophenol  
 Concen: 127.81 ng  
 RT: 10.73 min Scan# 756  
 Delta R.T. -0.00 min  
 Lab File: BF086234.D  
 Acq: 15 Apr 2016 23:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
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Tgt Ion:330 Resp: 554908  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 78.7 118.1  
 141 37.6 28.6 42.8

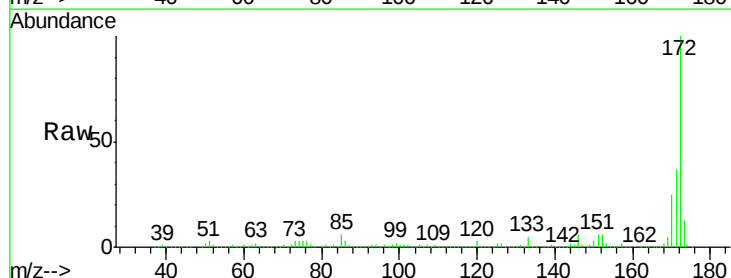


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

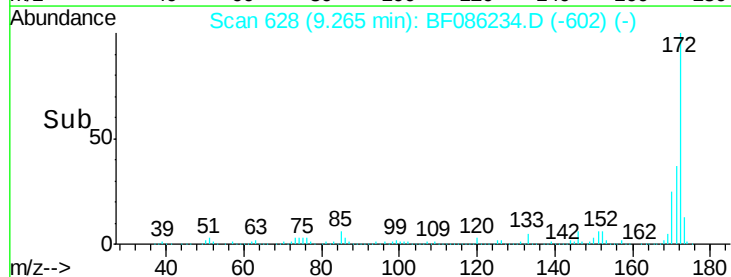
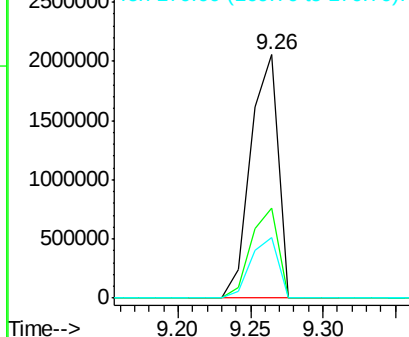


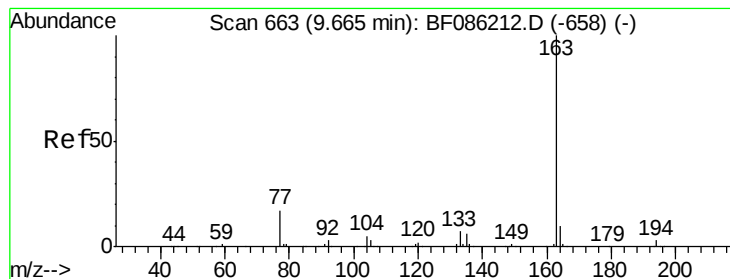
#44  
 2-Fluorobiphenyl  
 Concen: 91.78 ng  
 RT: 9.26 min Scan# 628  
 Delta R.T. 0.00 min  
 Lab File: BF086234.D  
 Acq: 15 Apr 2016 23:35

Tgt Ion:172 Resp: 2689269  
 Ion Ratio Lower Upper  
 172 100  
 171 37.2 29.1 43.7  
 170 25.1 19.9 29.9



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





#49

Dimethylphthalate

Concen: 3.04 ng

RT: 9.65 min Scan# 662

Delta R.T. -0.01 min

Lab File: BF086234.D

Acq: 15 Apr 2016 23:35

Instrument :

BNA\_F

ClientSampleId :

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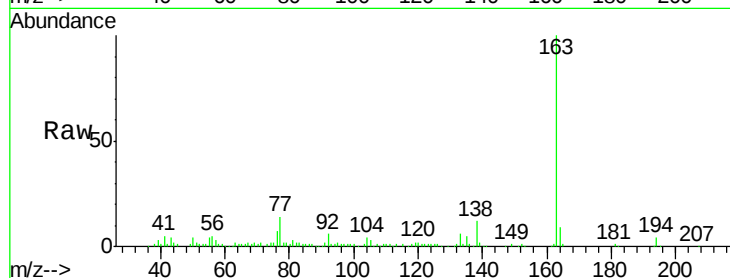
Tgt Ion:163 Resp: 119647

Ion Ratio Lower Upper

163 100

194 3.6 2.8 4.2

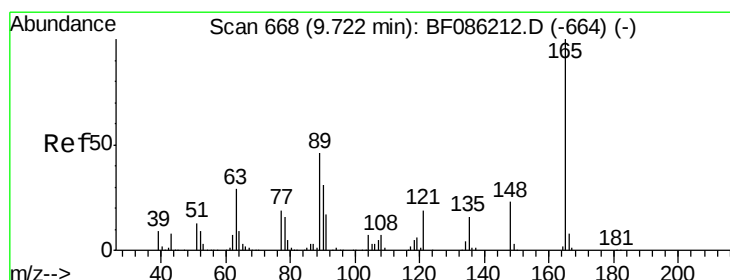
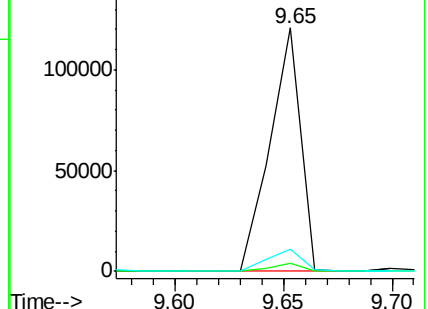
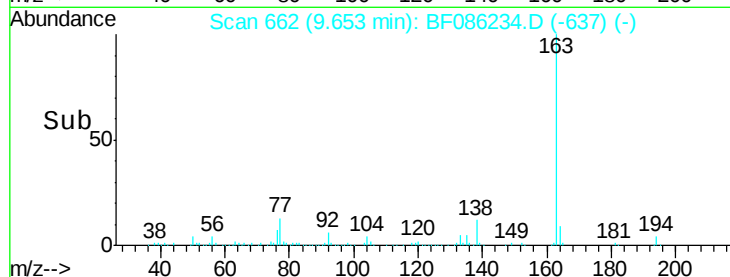
164 9.2 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 8.08 ng

RT: 9.93 min Scan# 686

Delta R.T. 0.21 min

Lab File: BF086234.D

Acq: 15 Apr 2016 23:35

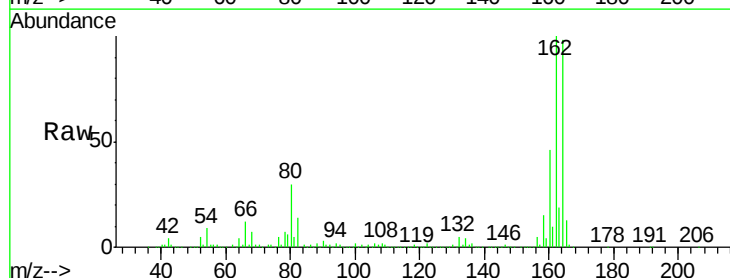
Tgt Ion:165 Resp: 70289

Ion Ratio Lower Upper

165 100

63 1.7 35.1 52.7#

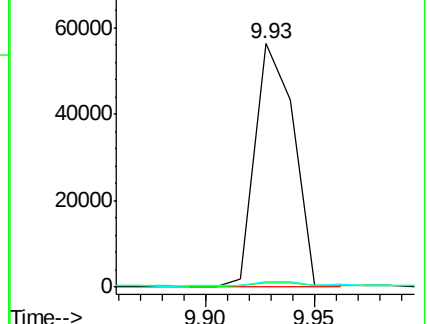
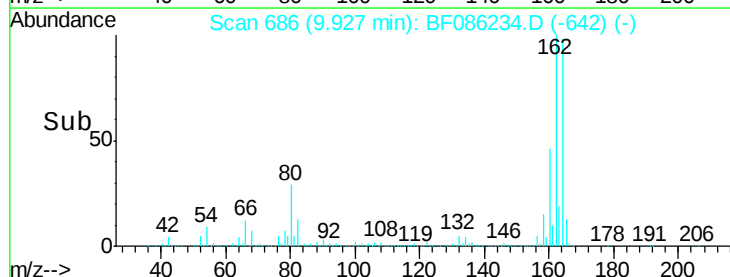
89 2.1 39.8 59.6#

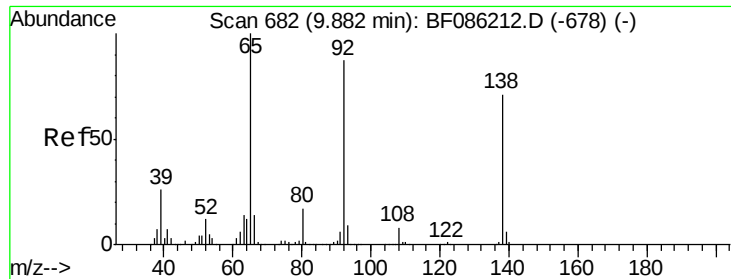


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

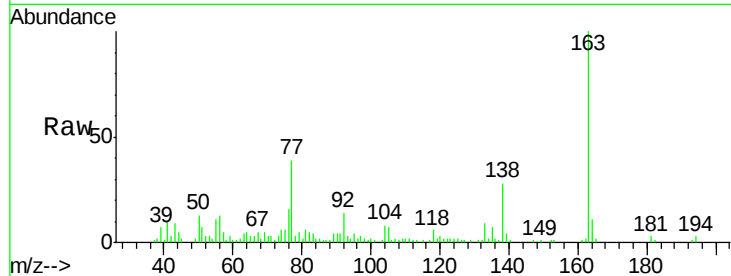




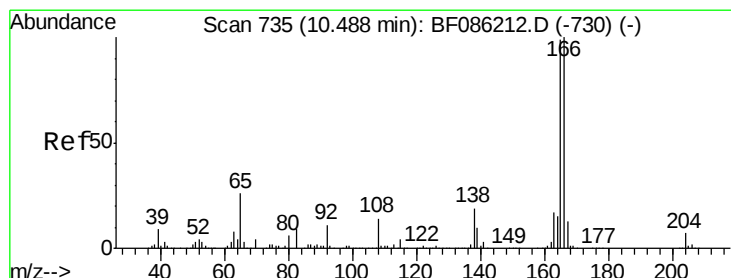
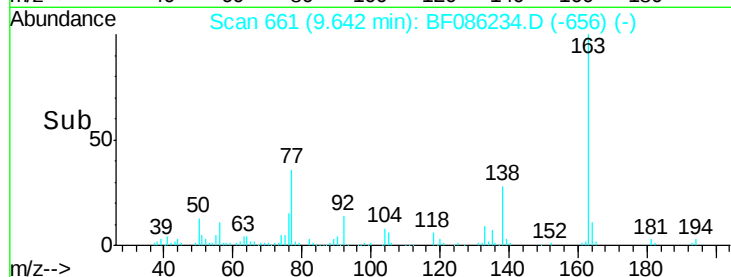
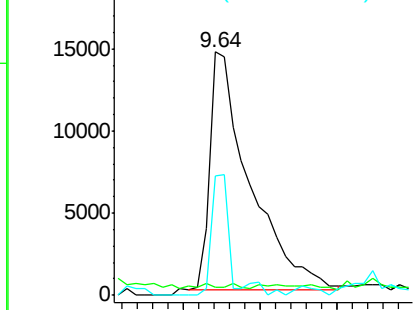
#52  
3-Nitroaniline  
Concen: 5.02 ng  
RT: 9.64 min Scan# 661  
Delta R.T. -0.24 min  
Lab File: BF086234.D  
Acq: 15 Apr 2016 23:35

Instrument :  
BNA\_F  
ClientSampleId :  
GW-WASTE-CHARACTERIZATION-

Tgt Ion:138 Resp: 53037  
Ion Ratio Lower Upper  
138 100  
108 3.6 9.0 13.4#  
92 49.1 99.3 148.9#

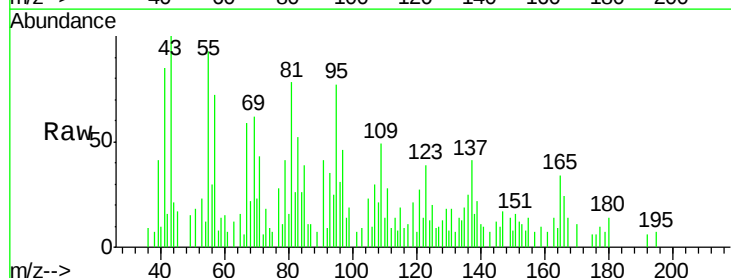


Abundance Ion 138.00 (137.70 to 138.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 92.00 (91.70 to 92.70): BF0

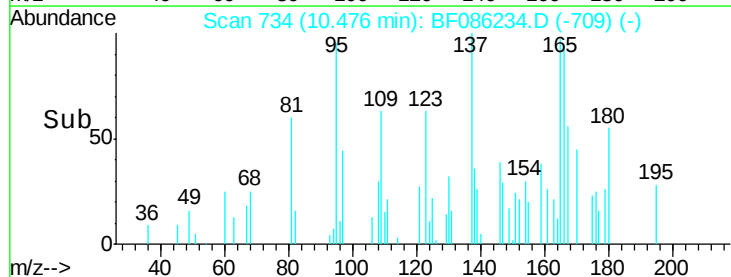
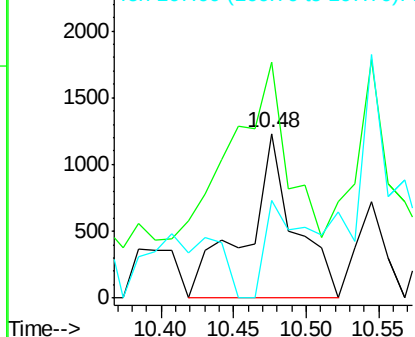


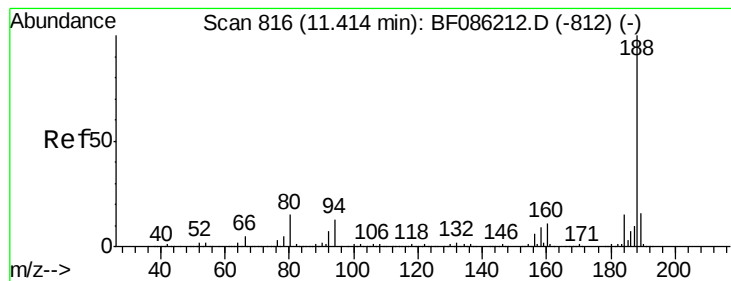
#57  
Fluorene  
Concen: Below Cal  
RT: 10.48 min Scan# 734  
Delta R.T. -0.01 min  
Lab File: BF086234.D  
Acq: 15 Apr 2016 23:35

Tgt Ion:166 Resp: 2845  
Ion Ratio Lower Upper  
166 100  
165 143.7 78.6 117.8#  
167 59.2 10.4 15.6#



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.00 min

Lab File: BF086234.D

Acq: 15 Apr 2016 23:35

Instrument :

BNA\_F

ClientSampleId :

GW-WASTE-CHARACTERIZATION-

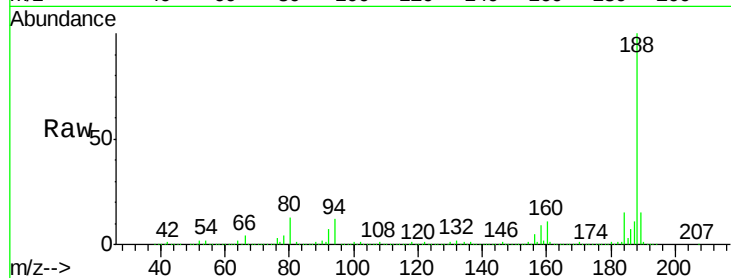
Tgt Ion:188 Resp: 936432

Ion Ratio Lower Upper

188 100

94 12.2 9.8 14.8

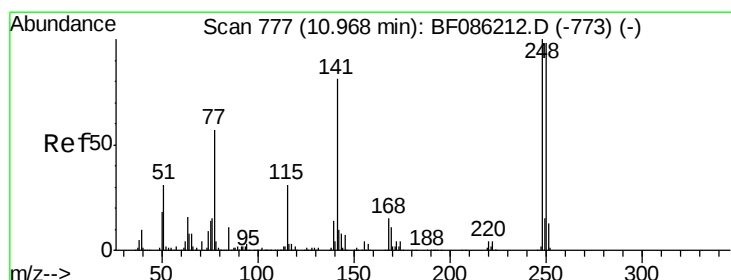
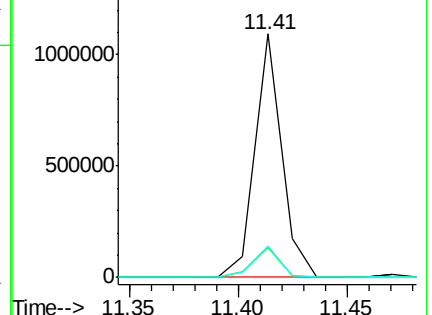
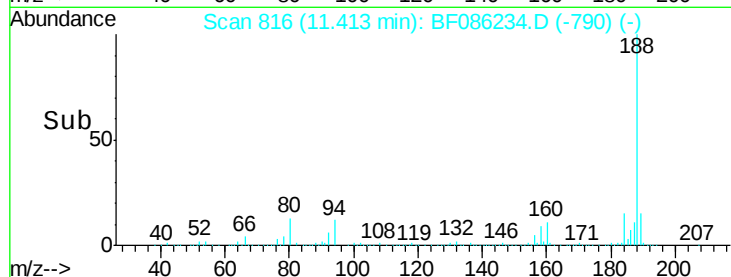
80 13.0 10.5 15.7



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



#66

4-Bromophenyl-phenylether

Concen: 3.97 ng

RT: 10.73 min Scan# 756

Delta R.T. -0.24 min

Lab File: BF086234.D

Acq: 15 Apr 2016 23:35

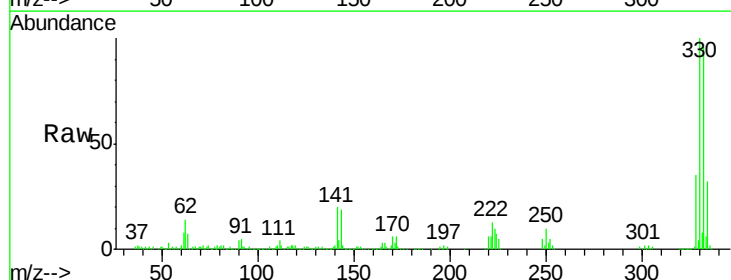
Tgt Ion:248 Resp: 34652

Ion Ratio Lower Upper

248 100

250 195.7 78.6 118.0#

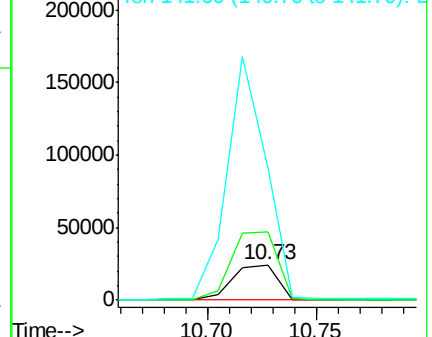
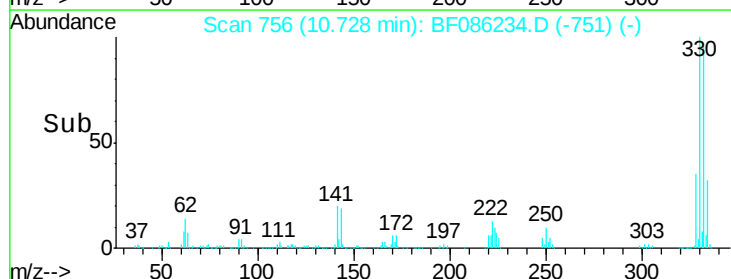
141 377.8 57.9 86.9#

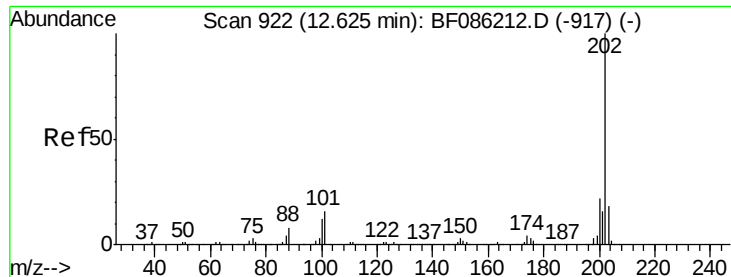


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#74

Fluoranthene

Concen: Below Cal

RT: 12.62 min Scan# 922

Delta R.T. -0.00 min

Lab File: BF086234.D

Acq: 15 Apr 2016 23:35

Instrument :

BNA\_F

ClientSampleId :

GW-WASTE-CHARACTERIZATION-

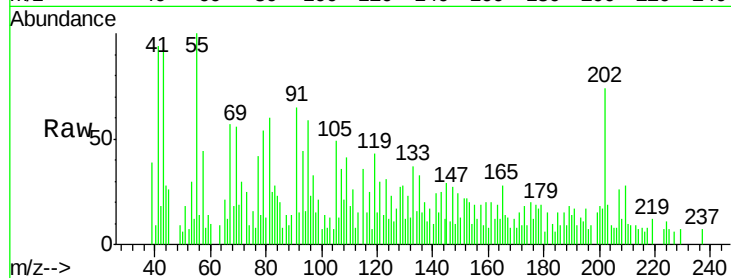
Tgt Ion:202 Resp: 5139

Ion Ratio Lower Upper

202 100

101 18.8 0.0 35.2

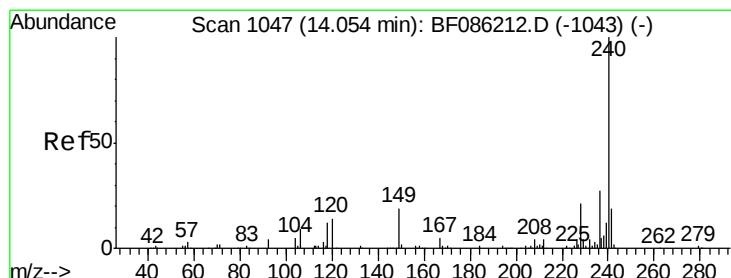
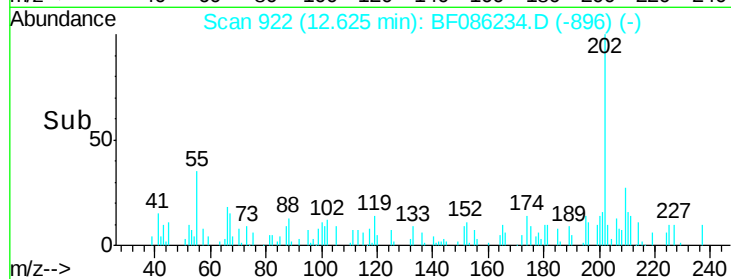
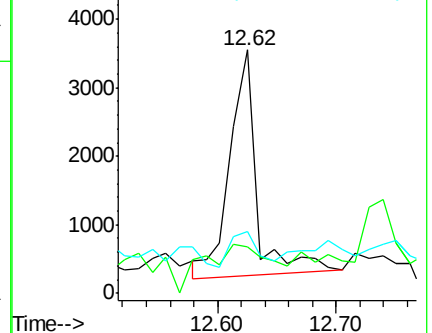
203 25.5 0.0 38.2



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.01 min

Lab File: BF086234.D

Acq: 15 Apr 2016 23:35

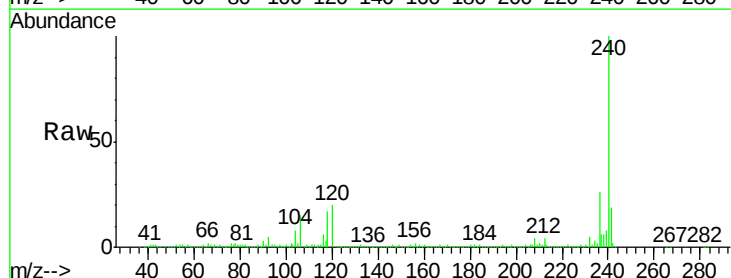
Tgt Ion:240 Resp: 582171

Ion Ratio Lower Upper

240 100

120 19.8 9.3 13.9#

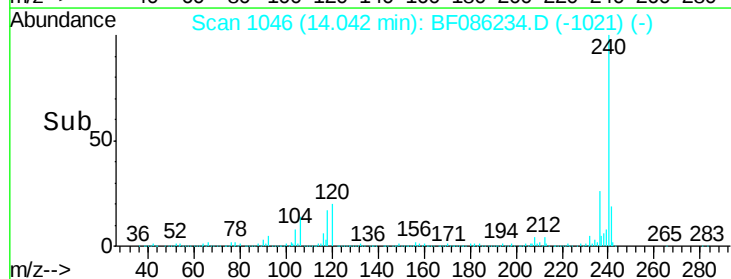
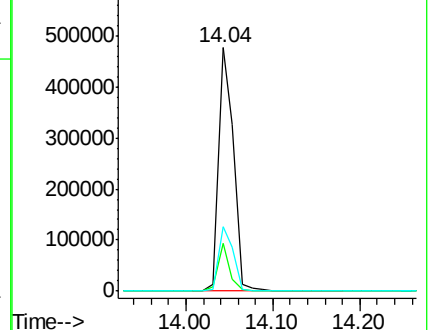
236 26.5 21.1 31.7

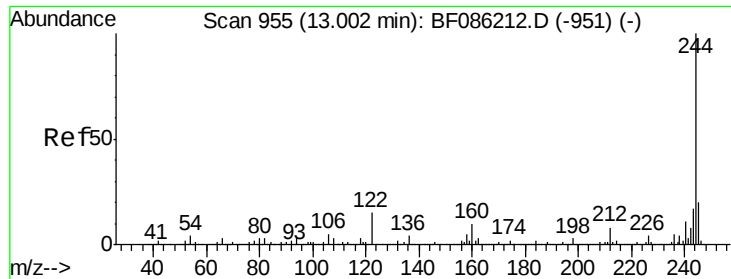


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

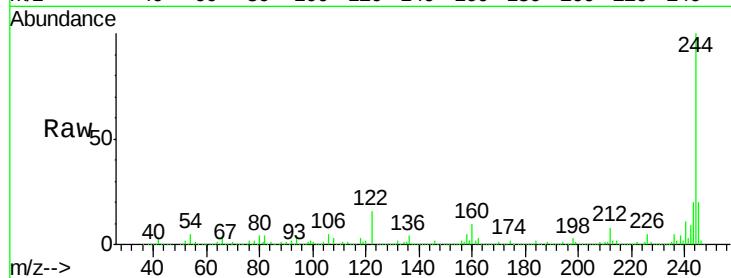




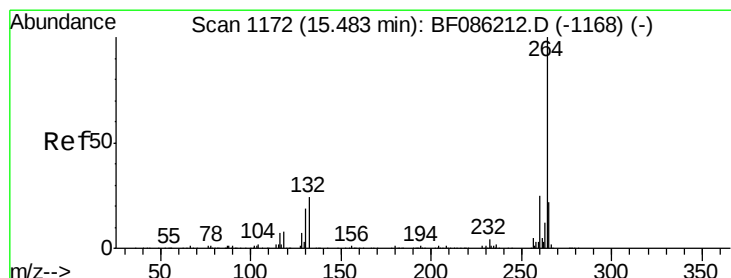
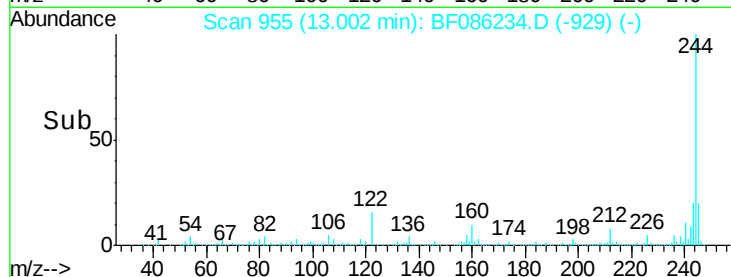
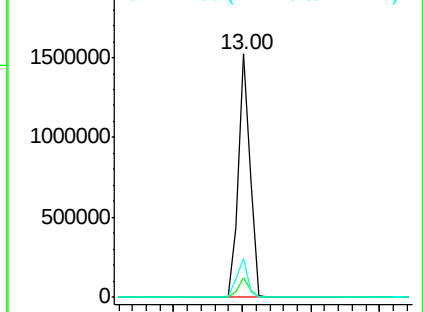
#78  
 Terphenyl-d14  
 Concen: 80.26 ng  
 RT: 13.00 min Scan# 955  
 Delta R.T. 0.00 min  
 Lab File: BF086234.D  
 Acq: 15 Apr 2016 23:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GW-WASTE-CHARACTERIZATION-

Tgt Ion:244 Resp: 1858125  
 Ion Ratio Lower Upper  
 244 100  
 212 8.1 6.4 9.6  
 122 16.1 11.7 17.5

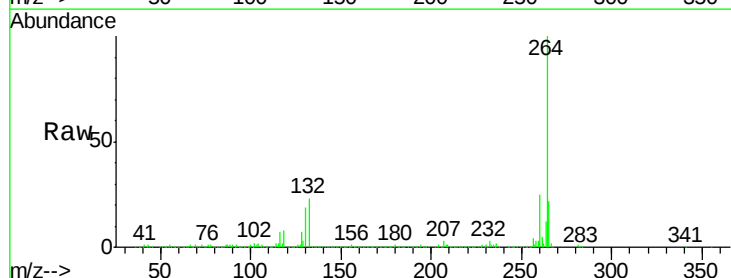


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.48 min Scan# 1172  
 Delta R.T. -0.00 min  
 Lab File: BF086234.D  
 Acq: 15 Apr 2016 23:35

Tgt Ion:264 Resp: 478069  
 Ion Ratio Lower Upper  
 264 100  
 260 24.7 20.0 30.0  
 265 21.5 17.4 26.0



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

