

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050216\  
 Data File : BF086634.D  
 Acq On : 2 May 2016 23:14  
 Operator : UM/SJ  
 Sample : H2762-13DL 2X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-B4COMPDL

Quant Time: May 03 01:19:39 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF042716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 27 14:20:52 2016  
 Response via : Initial Calibration

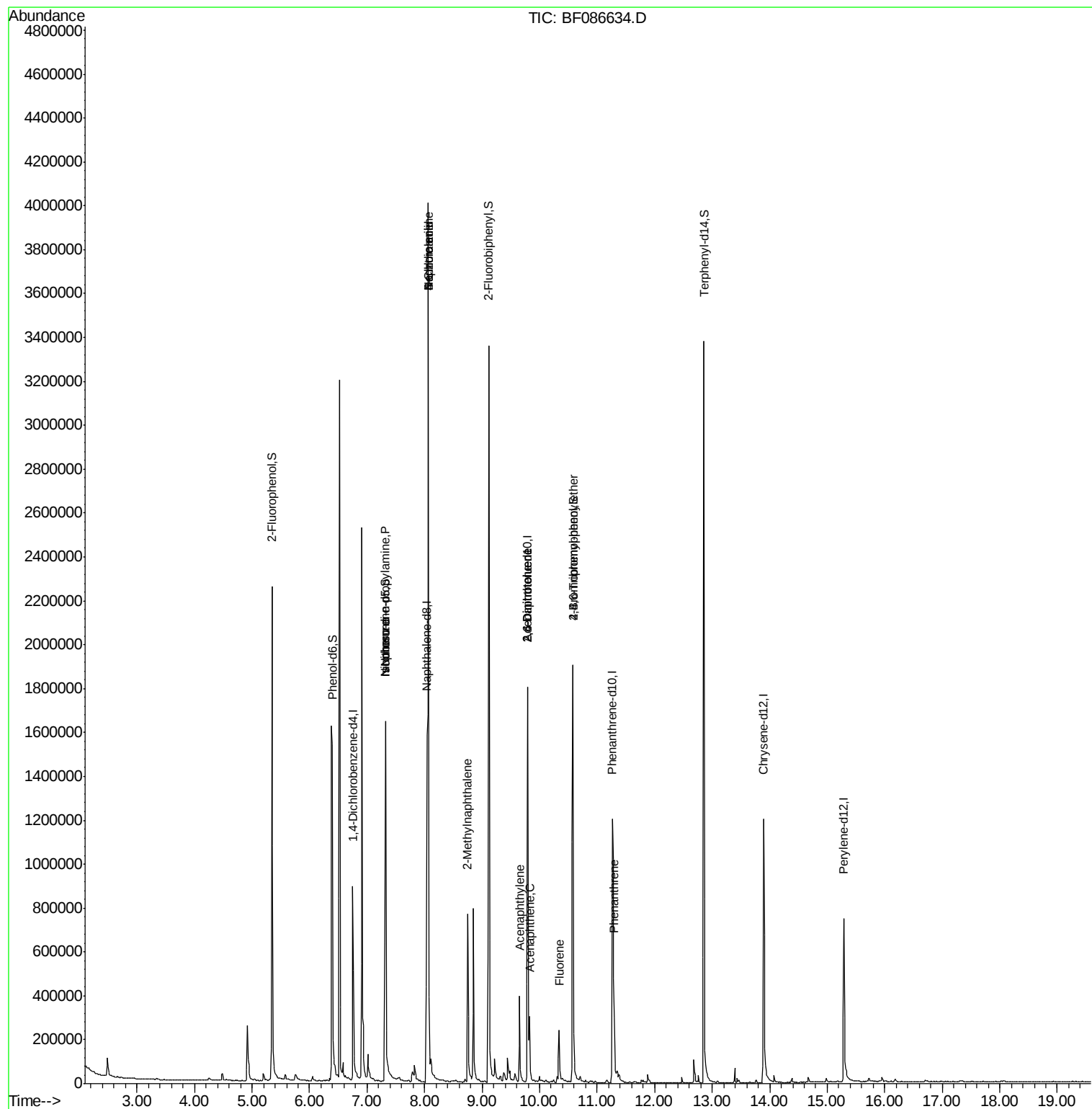
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.75  | 152  | 172174   | 20.00 | ng    | -0.06    |
| 21) Naphthalene-d8             | 8.04  | 136  | 746017   | 20.00 | ng    | -0.06    |
| 38) Acenaphthene-d10           | 9.79  | 164  | 369506   | 20.00 | ng    | -0.06    |
| 63) Phenanthrene-d10           | 11.26 | 188  | 707183   | 20.00 | ng    | -0.06    |
| 75) Chrysene-d12               | 13.89 | 240  | 593651   | 20.00 | ng    | -0.07    |
| 86) Perylene-d12               | 15.29 | 264  | 386784   | 20.00 | ng    | -0.07    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.34  | 112  | 684968   | 68.62 | ng    | -0.04    |
| 7) Phenol-d6                   | 6.40  | 99   | 882927   | 63.38 | ng    | -0.05    |
| 23) Nitrobenzene-d5            | 7.32  | 82   | 662910   | 47.90 | ng    | -0.06    |
| 41) 2,4,6-Tribromophenol       | 10.58 | 330  | 282320   | 72.45 | ng    | -0.06    |
| 44) 2-Fluorobiphenyl           | 9.12  | 172  | 1110746  | 46.57 | ng    | -0.06    |
| 78) Terphenyl-d14              | 12.85 | 244  | 1131201  | 41.98 | ng    | -0.06    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.32  | 70   | 86488    | 9.39  | ng    | # 79     |
| 25) Isophorone                 | 7.32  | 82   | 478129   | 17.95 | ng    | # 68     |
| 31) Naphthalene                | 8.06  | 128  | 1922128  | 50.64 | ng    | # 98     |
| 32) Benzoic acid               | 8.06  | 122  | 4411     | 9.30  | ng    | # 1      |
| 33) 4-Chloroaniline            | 8.06  | 127  | 266143   | 18.72 | ng    | # 35     |
| 37) 2-Methylnaphthalene        | 8.75  | 142  | 256888   | 11.47 | ng    | # 97     |
| 48) Acenaphthylene             | 9.65  | 152  | 200745   | 5.47  | ng    | # 98     |
| 50) 2,6-Dinitrotoluene         | 9.79  | 165  | 47707    | 8.30  | ng    | # 21     |
| 51) Acenaphthene               | 9.82  | 154  | 84918    | 3.60  | ng    | # 98     |
| 56) 2,4-Dinitrotoluene         | 9.79  | 165  | 49720    | 6.79  | ng    | # 16     |
| 57) Fluorene                   | 10.34 | 166  | 105870   | 4.14  | ng    | # 96     |
| 66) 4-Bromophenyl-phenylether  | 10.58 | 248  | 16837    | 2.31  | ng    | # 1      |
| 70) Phenanthrene               | 11.29 | 178  | 188851   | 5.09  | ng    | # 98     |

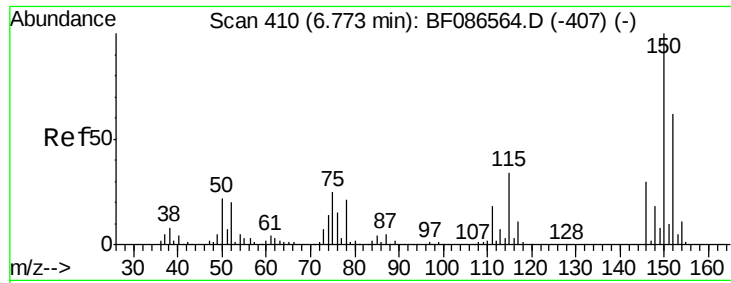
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.75 min Scan# 408

Delta R.T. -0.06 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

Instrument :

BNA\_F

ClientSampleId :

TEC-B4COMPDL

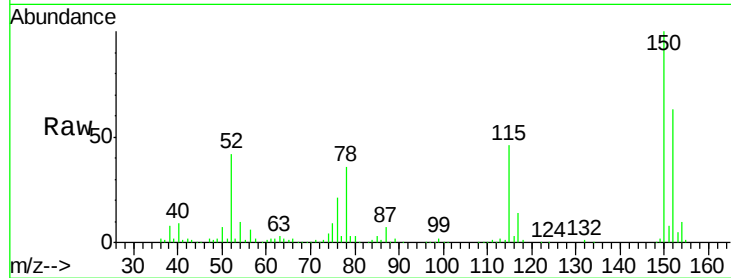
Tgt Ion:152 Resp: 172174

Ion Ratio Lower Upper

152 100

150 159.7 125.8 188.6

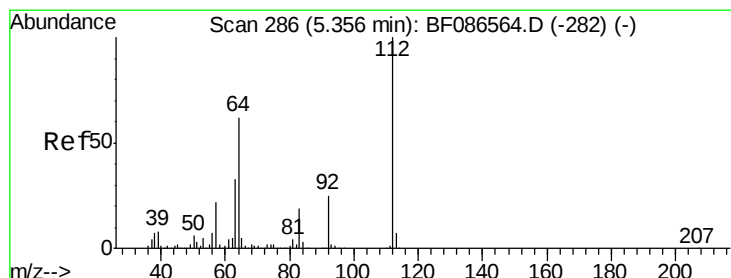
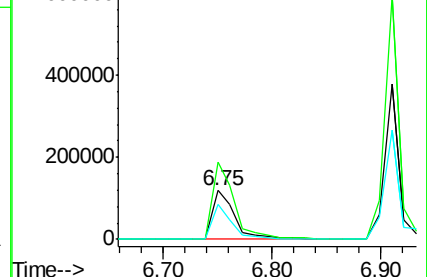
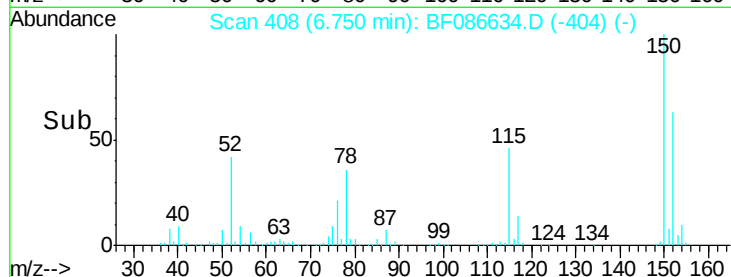
115 73.0 51.5 77.3



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: 68.62 ng

RT: 5.34 min Scan# 285

Delta R.T. -0.04 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

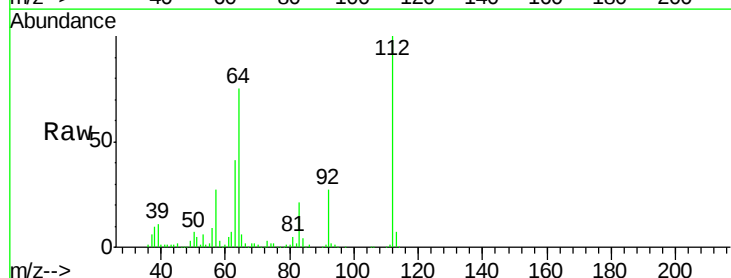
Tgt Ion:112 Resp: 684968

Ion Ratio Lower Upper

112 100

64 75.4 52.1 78.1

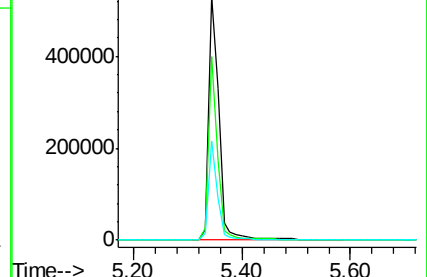
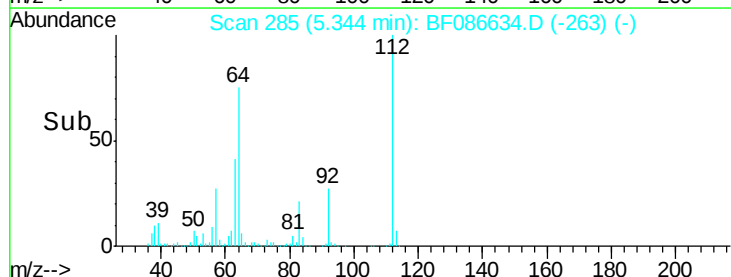
63 40.7 25.7 38.5#



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: 63.38 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.05 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

Instrument :

BNA\_F

ClientSampleId :

TEC-B4COMPDL

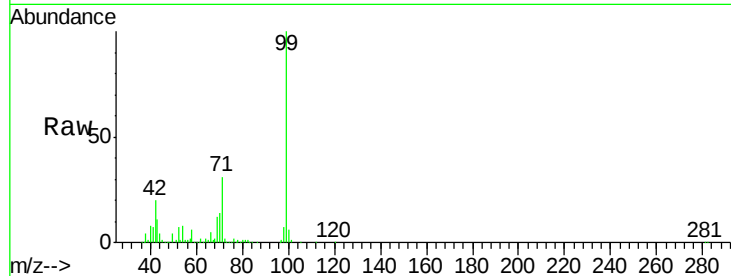
Tgt Ion: 99 Resp: 882927

Ion Ratio Lower Upper

99 100

42 20.2 13.6 20.4

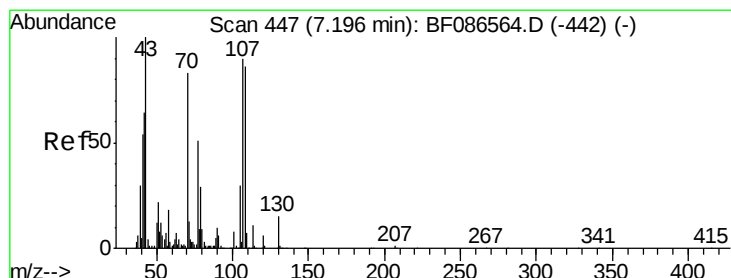
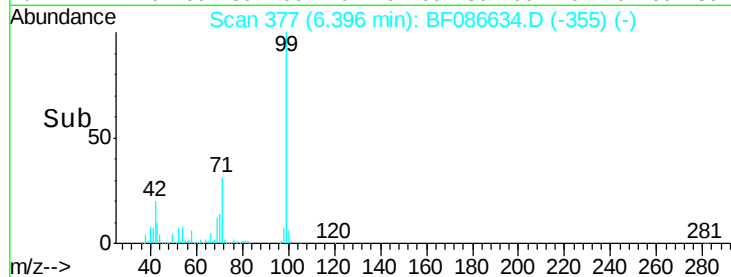
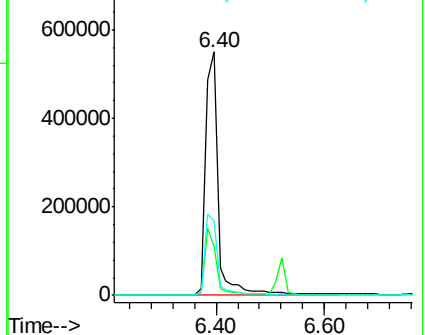
71 30.6 24.6 36.8



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: 9.39 ng

RT: 7.32 min Scan# 458

Delta R.T. 0.09 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

Tgt Ion: 70 Resp: 86488

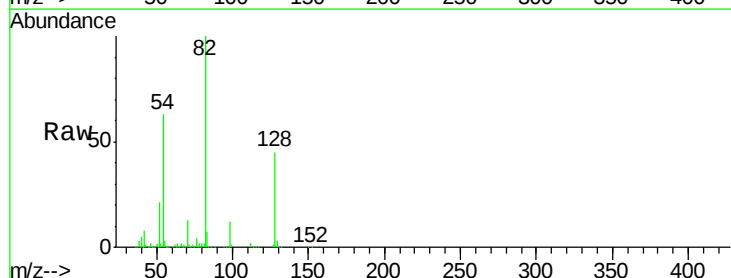
Ion Ratio Lower Upper

70 100

42 61.5 43.1 64.7

101 0.0 8.1 12.1#

130 2.2 18.6 28.0#

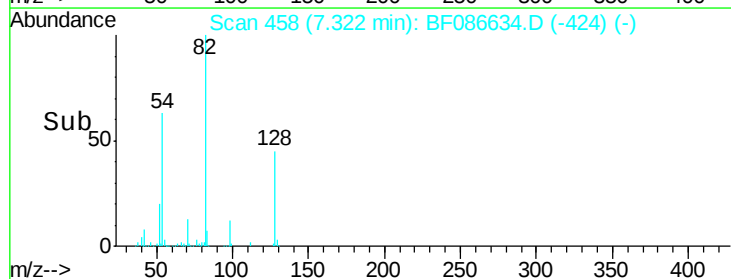
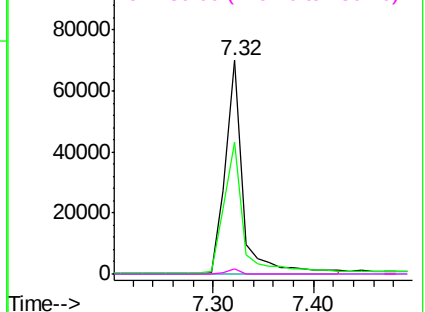


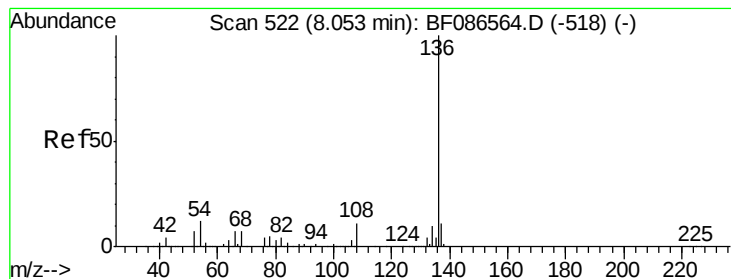
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 8.04 min Scan# 521

Delta R.T. -0.06 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

Instrument :

BNA\_F

ClientSampleId :

TEC-B4COMPDL

Tgt Ion:136 Resp: 746017

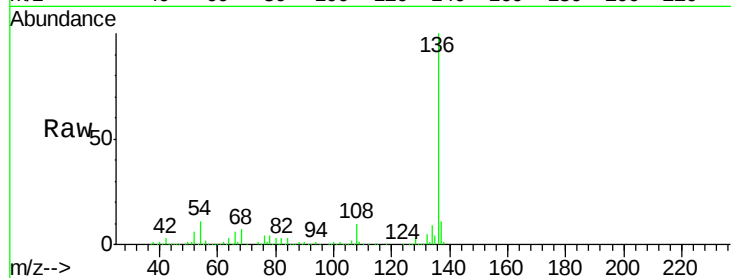
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 11.3 5.0 7.4#

68 6.6 4.4 6.6

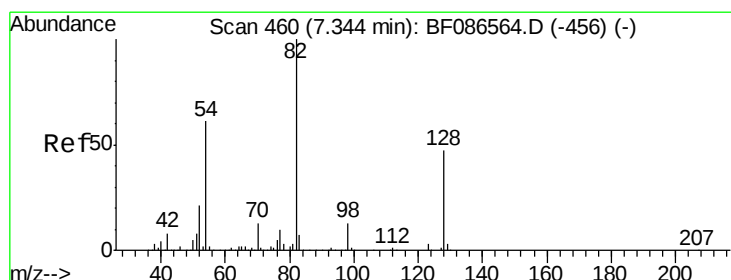
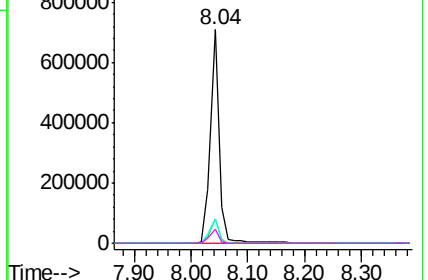
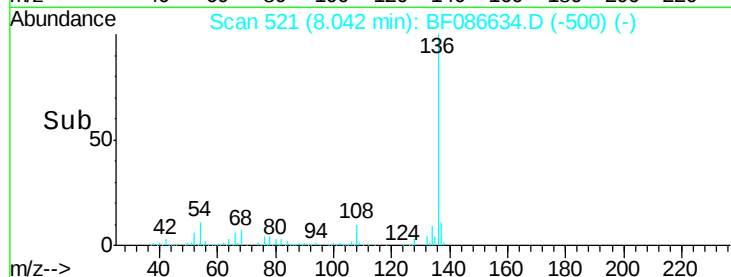


Abundance Ion 136.00 (135.70 to 136.70): E

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: 47.90 ng

RT: 7.32 min Scan# 458

Delta R.T. -0.06 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

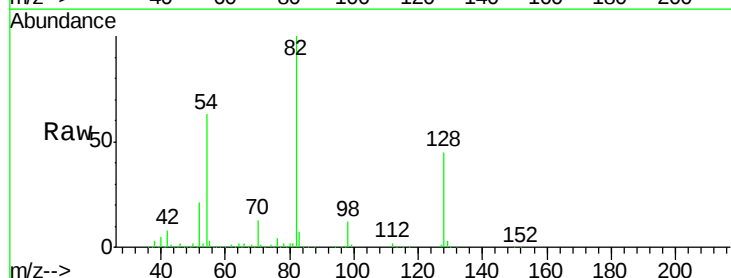
Tgt Ion: 82 Resp: 662910

Ion Ratio Lower Upper

82 100

128 44.8 40.6 61.0

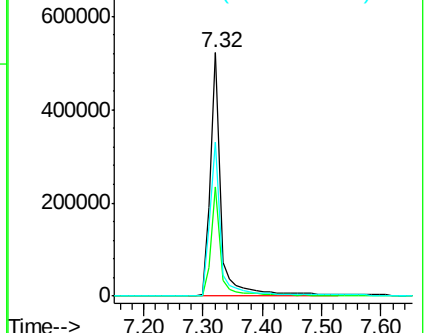
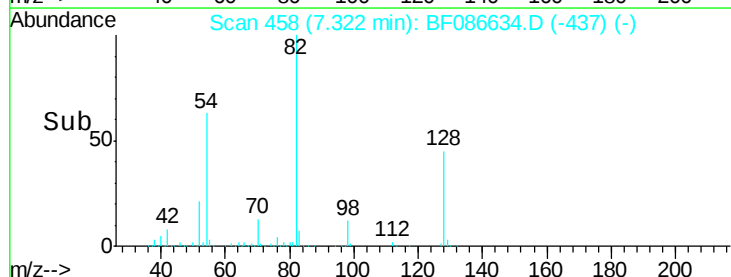
54 63.3 38.1 57.1#

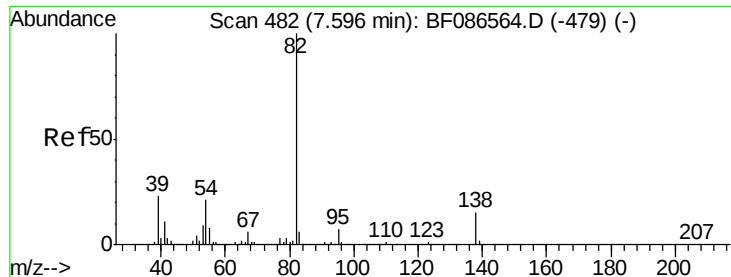


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 17.95 ng

RT: 7.32 min Scan# 458

Delta R.T. -0.32 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

Instrument :

BNA\_F

ClientSampleId :

TEC-B4COMPDL

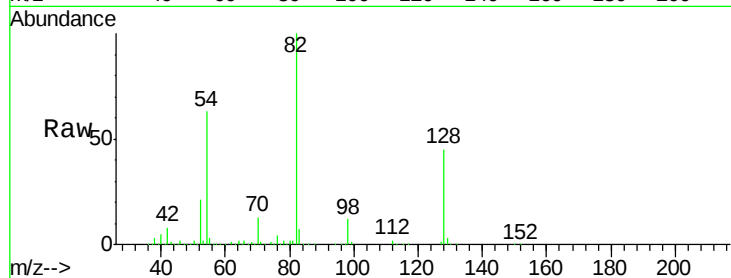
Tgt Ion: 82 Resp: 478129

Ion Ratio Lower Upper

82 100

95 0.0 5.1 7.7#

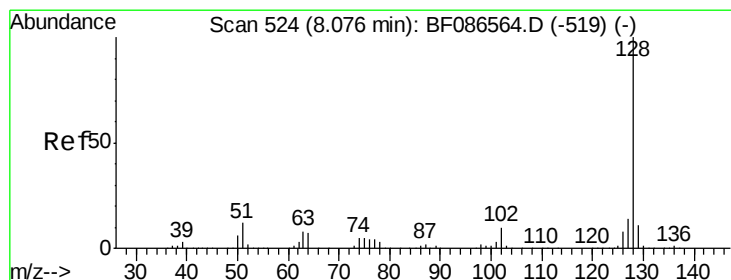
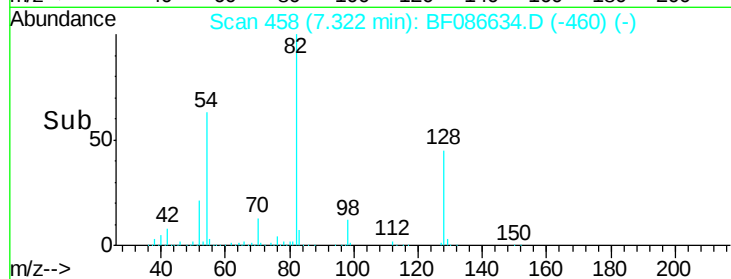
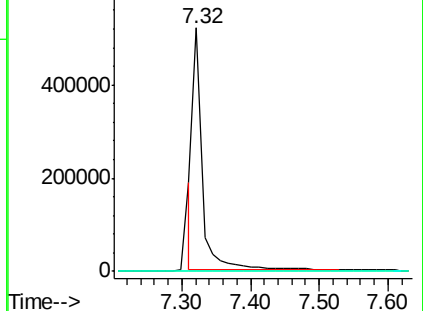
138 0.0 12.4 18.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#31

Naphthalene

Concen: 50.64 ng

RT: 8.06 min Scan# 523

Delta R.T. -0.05 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

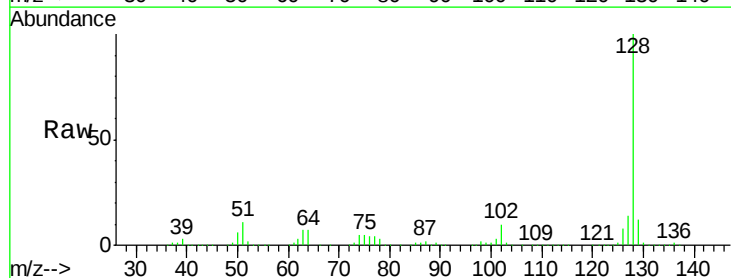
Tgt Ion: 128 Resp: 1922128

Ion Ratio Lower Upper

128 100

129 11.7 8.6 13.0

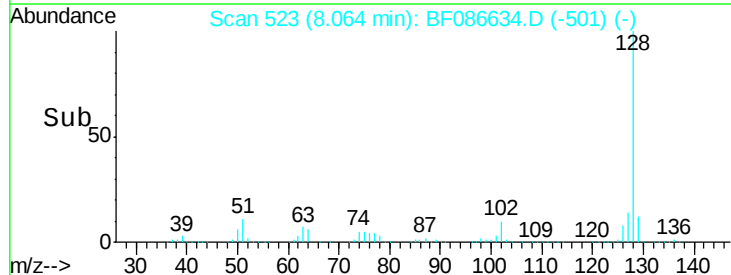
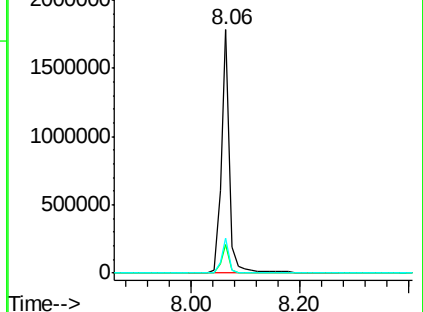
127 14.1 10.8 16.2

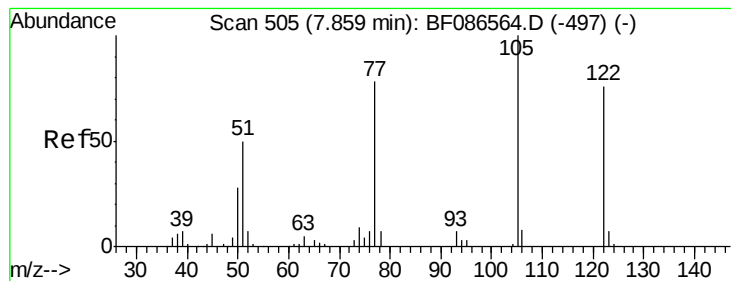


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 9.30 ng

RT: 8.06 min Scan# 523

Delta R.T. 0.17 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

Instrument :

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ClientSampleId :

TEC-B4COMPDL

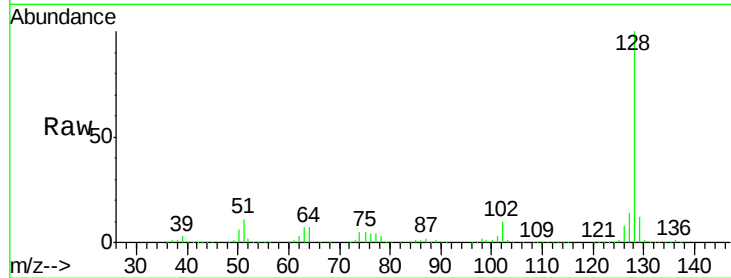
Tgt Ion:122 Resp: 4411

Ion Ratio Lower Upper

122 100

105 0.0 92.6 132.6#

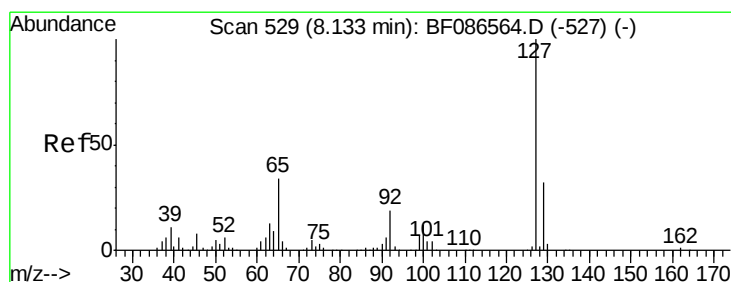
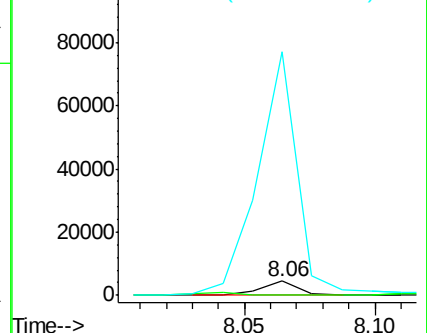
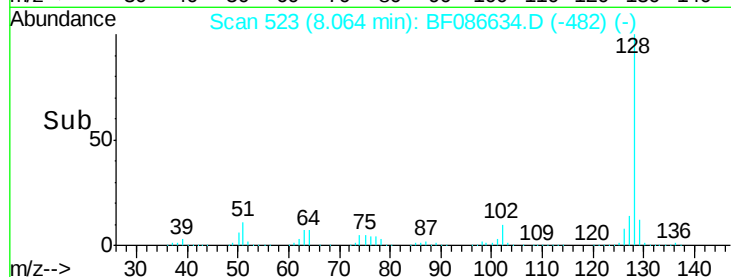
77 1751.8 60.0 100.0#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#33

4-Chloroaniline

Concen: 18.72 ng

RT: 8.06 min Scan# 523

Delta R.T. -0.10 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

Tgt Ion:127 Resp: 266143

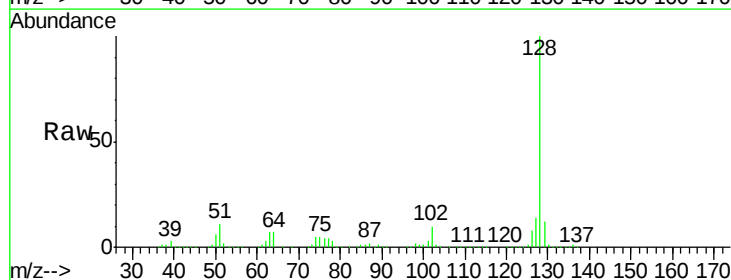
Ion Ratio Lower Upper

127 100

129 82.9 26.2 39.4#

65 0.0 23.0 34.4#

92 0.0 15.1 22.7#

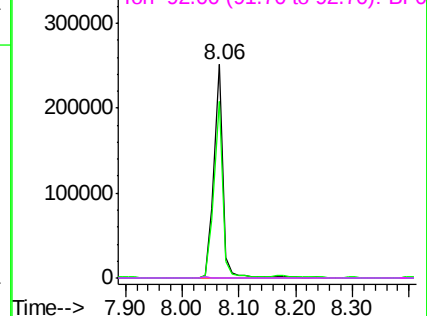
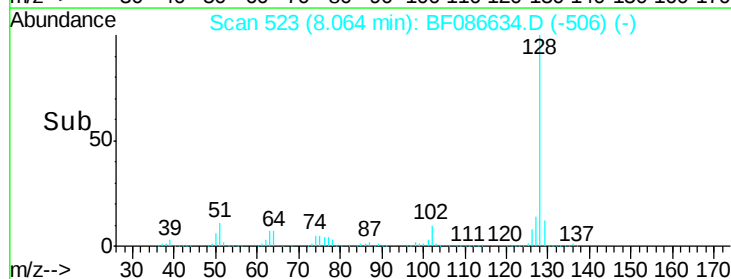


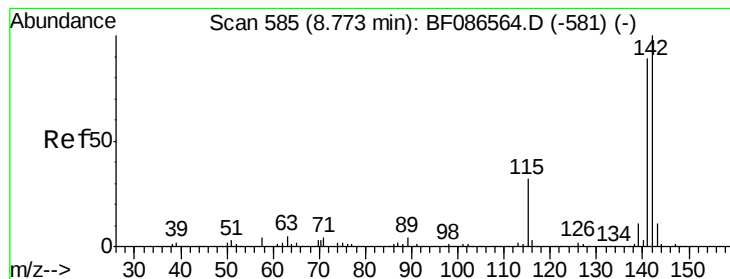
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0





#37

2-Methylnaphthalene

Concen: 11.47 ng

RT: 8.75 min Scan# 583

Delta R.T. -0.06 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

Instrument :

BNA\_F

ClientSampleId :

TEC-B4COMPDL

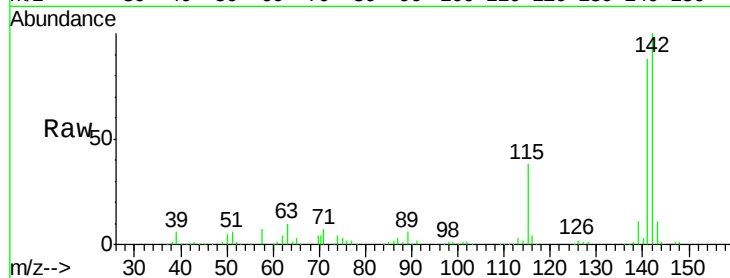
Tgt Ion:142 Resp: 256888

Ion Ratio Lower Upper

142 100

141 88.2 71.0 106.6

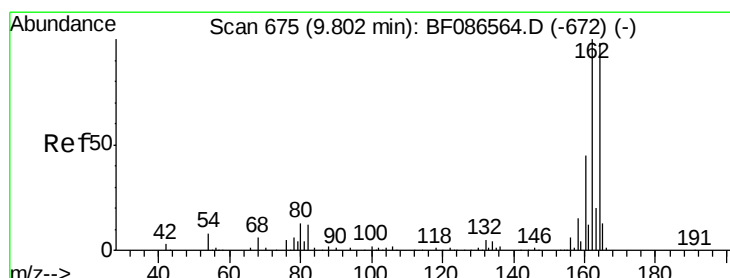
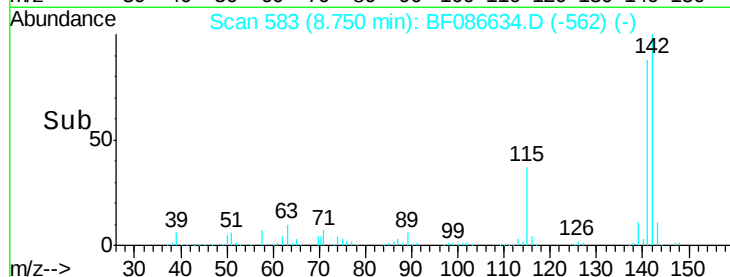
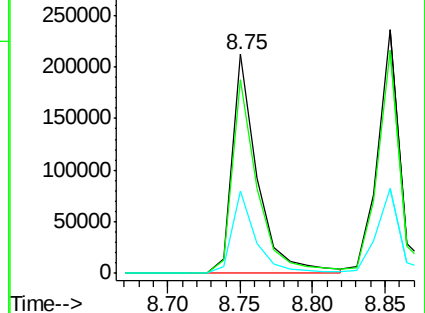
115 37.6 26.6 39.8



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: 9.79 min Scan# 674

Delta R.T. -0.06 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

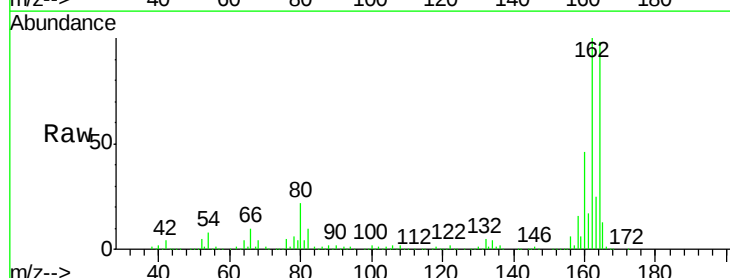
Tgt Ion:164 Resp: 369506

Ion Ratio Lower Upper

164 100

162 102.2 82.8 124.2

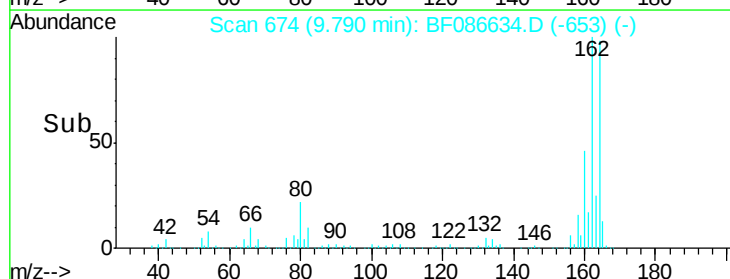
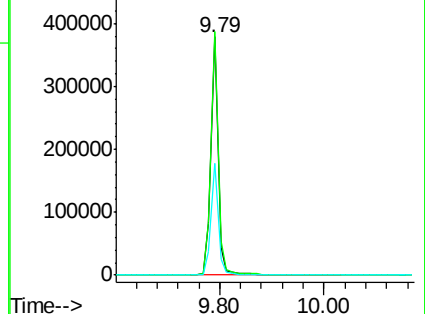
160 47.2 36.9 55.3

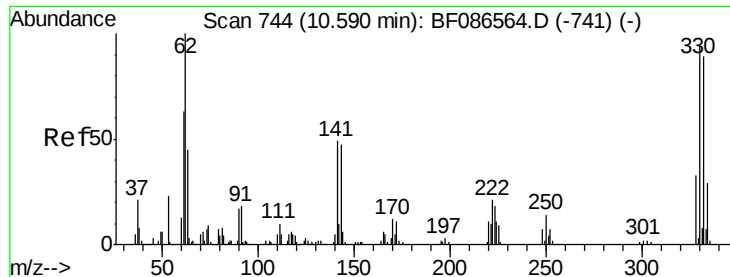


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

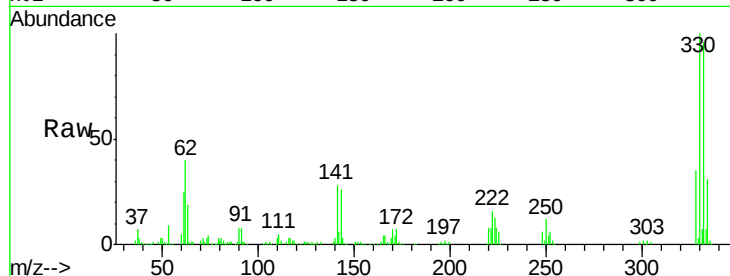




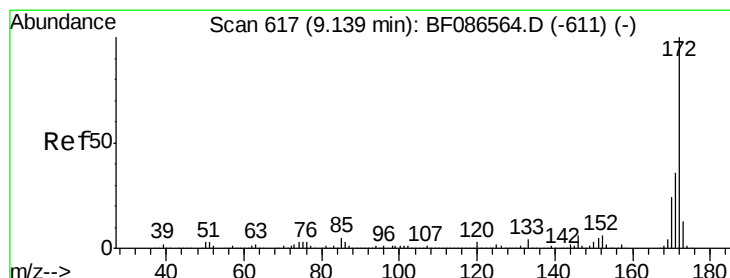
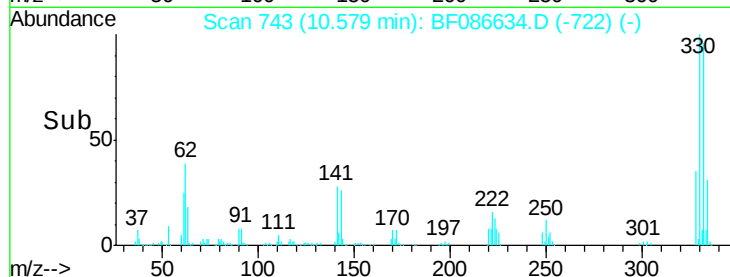
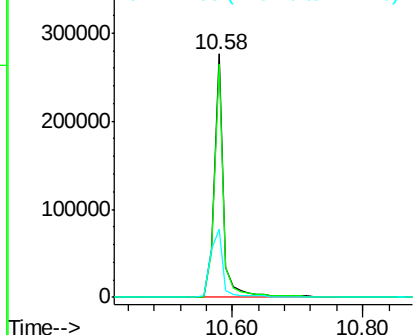
#41  
 2,4,6-Tribromophenol  
 Concen: 72.45 ng  
 RT: 10.58 min Scan# 743  
 Delta R.T. -0.06 min  
 Lab File: BF086634.D  
 Acq: 2 May 2016 23:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-B4COMPDL

Tgt Ion:330 Resp: 282320  
 Ion Ratio Lower Upper  
 330 100  
 332 96.6 79.0 118.4  
 141 37.4 31.2 46.8

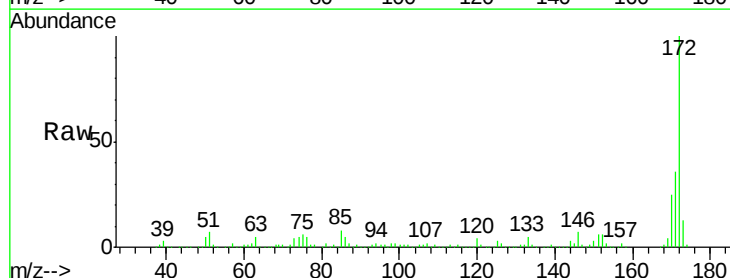


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

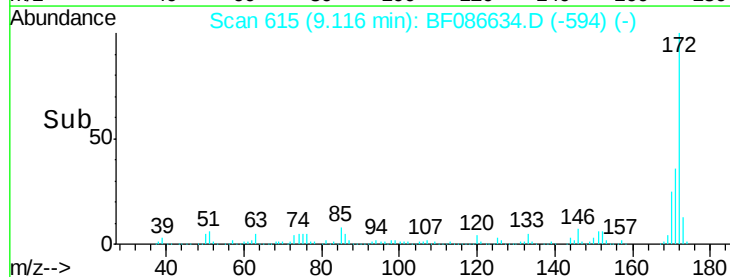
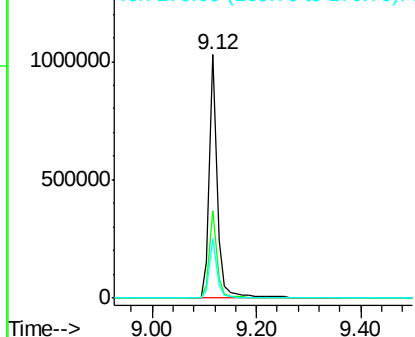


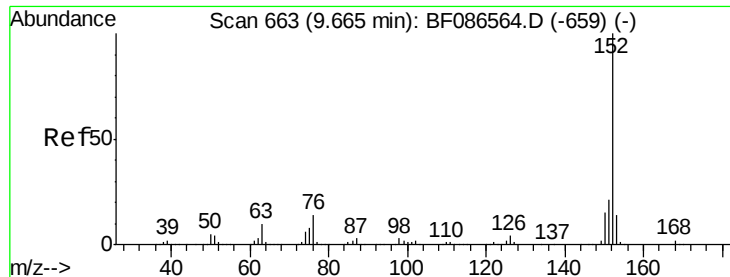
#44  
 2-Fluorobiphenyl  
 Concen: 46.57 ng  
 RT: 9.12 min Scan# 615  
 Delta R.T. -0.06 min  
 Lab File: BF086634.D  
 Acq: 2 May 2016 23:14

Tgt Ion:172 Resp: 1110746  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 29.0 43.6  
 170 24.5 19.8 29.8



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





#48

Acenaphthylene

Concen: 5.47 ng

RT: 9.65 min Scan# 662

Delta R.T. -0.06 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

Instrument :

BNA\_F

ClientSampleId :

TEC-B4COMPDL

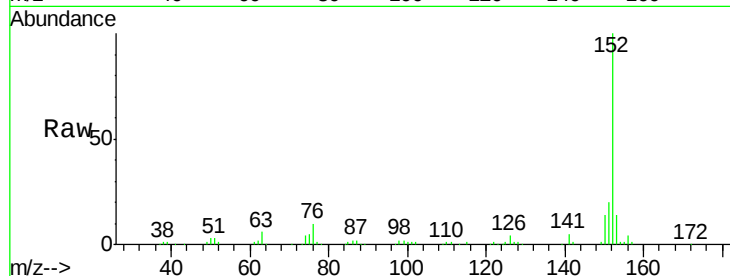
Tgt Ion:152 Resp: 200745

Ion Ratio Lower Upper

152 100

151 19.7 16.8 25.2

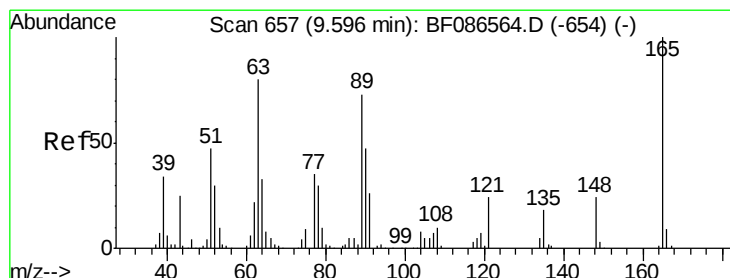
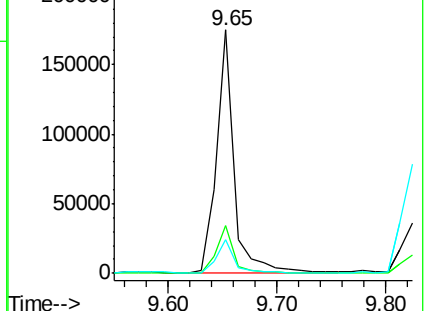
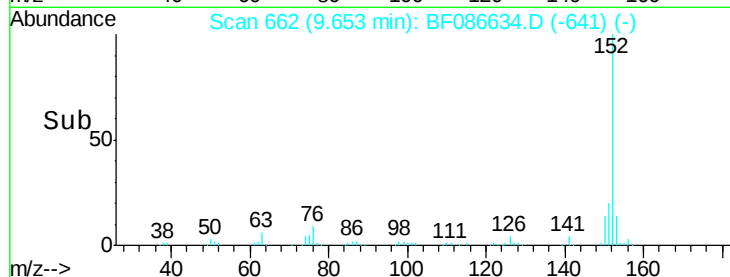
153 14.1 10.9 16.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 8.30 ng

RT: 9.79 min Scan# 674

Delta R.T. 0.15 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

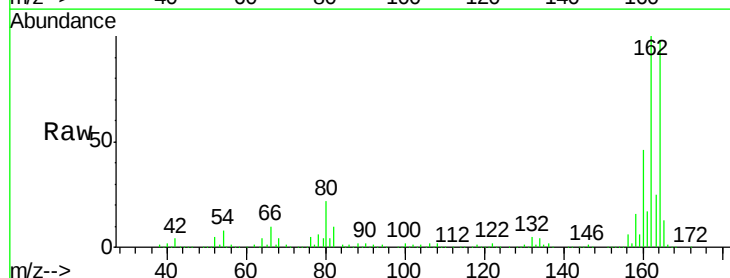
Tgt Ion:165 Resp: 47707

Ion Ratio Lower Upper

165 100

63 2.1 51.8 77.8#

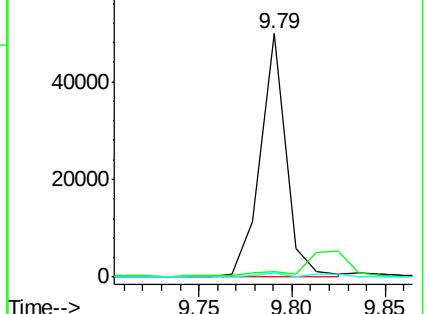
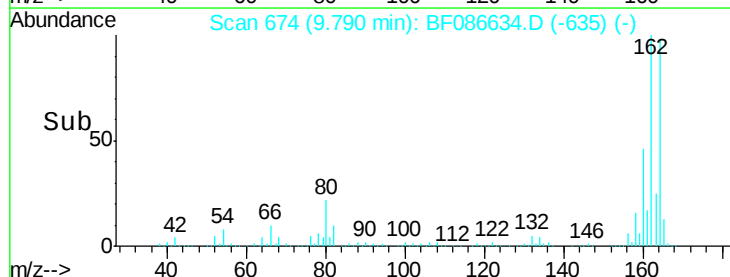
89 1.9 50.7 76.1#

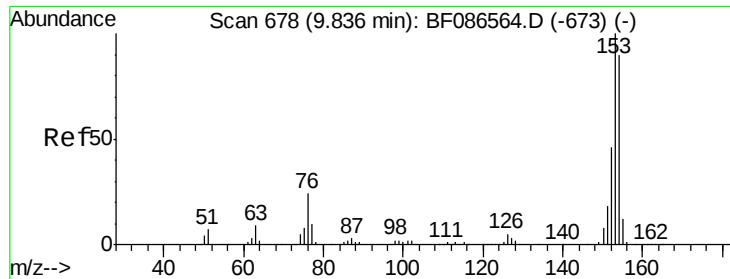


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 3.60 ng

RT: 9.82 min Scan# 677

Delta R.T. -0.06 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

Instrument :

BNA\_F

ClientSampleId :

TEC-B4COMPDL

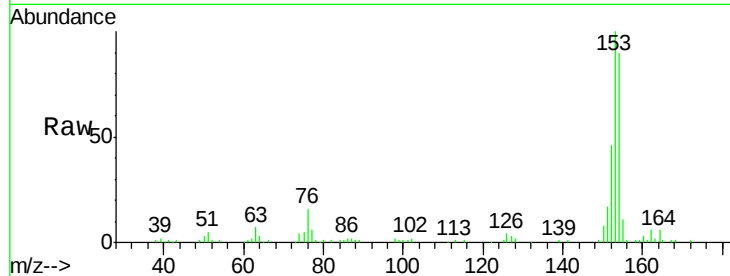
Tgt Ion:154 Resp: 84918

Ion Ratio Lower Upper

154 100

153 111.2 89.8 134.6

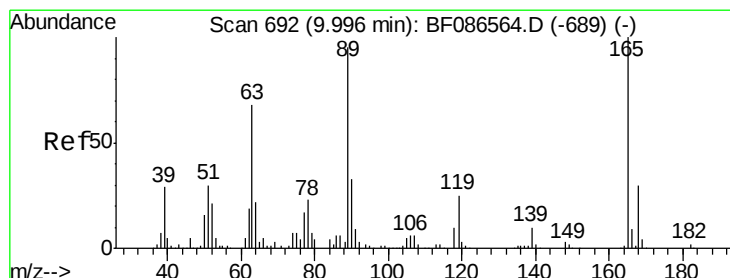
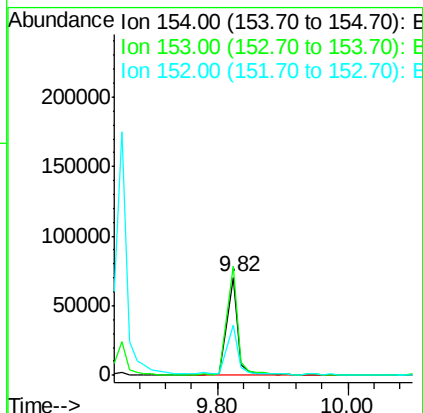
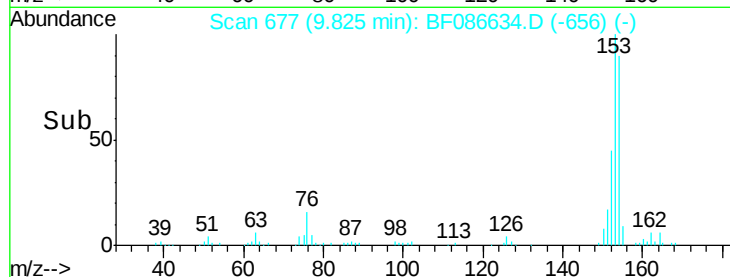
152 51.1 43.4 65.0



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



#56

2,4-Dinitrotoluene

Concen: 6.79 ng

RT: 9.79 min Scan# 674

Delta R.T. -0.25 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

Tgt Ion:165 Resp: 49720

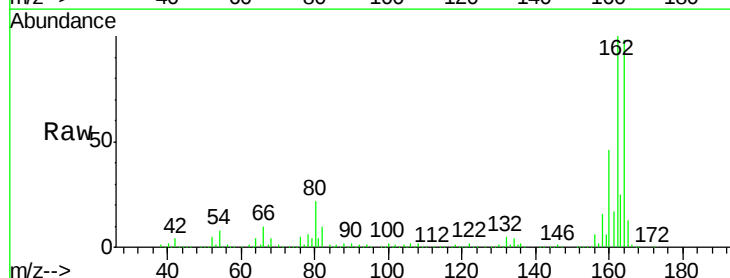
Ion Ratio Lower Upper

165 100

63 2.1 44.3 66.5#

89 1.9 70.0 105.0#

182 0.0 1.8 2.6#

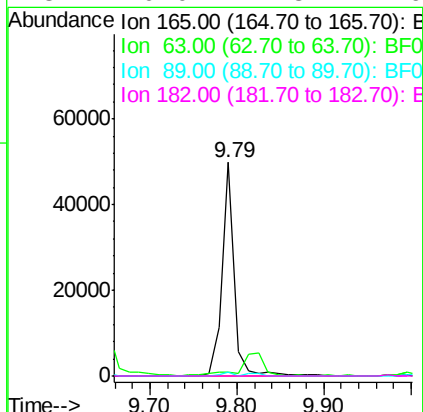
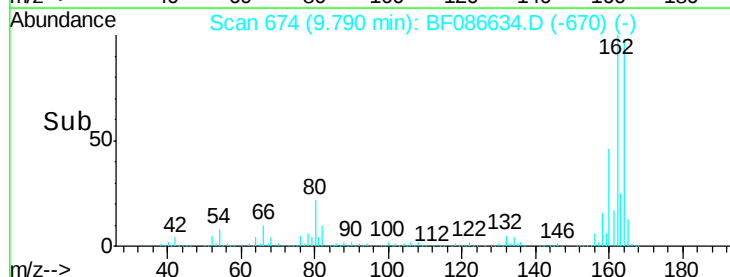


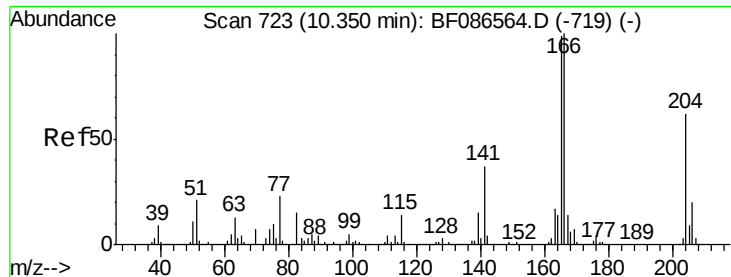
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

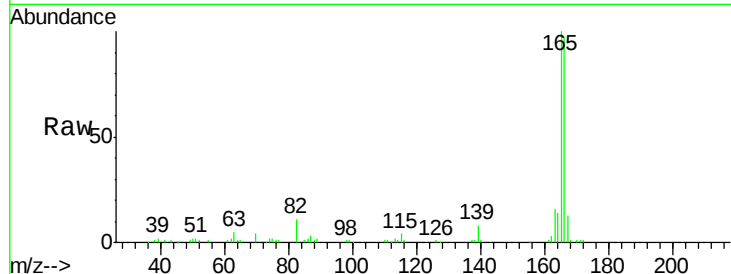




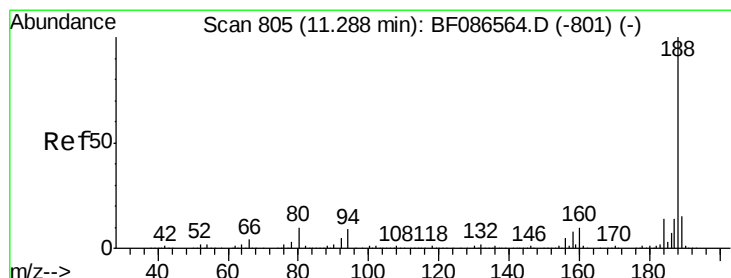
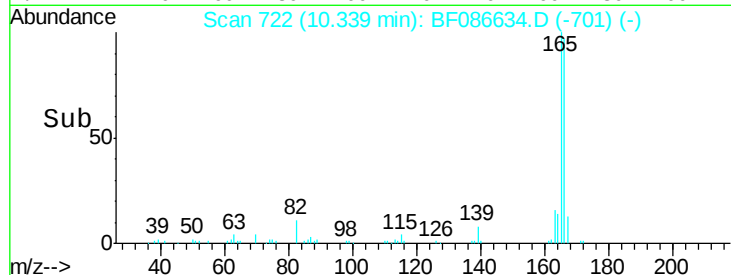
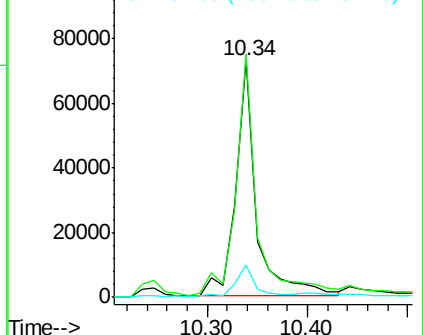
#57  
**Fluorene**  
 Concen: 4.14 ng  
 RT: 10.34 min Scan# 722  
 Delta R.T. -0.06 min  
 Lab File: BF086634.D  
 Acq: 2 May 2016 23:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-B4COMPDL

Tgt Ion:166 Resp: 105870  
 Ion Ratio Lower Upper  
 166 100  
 165 102.7 79.0 118.6  
 167 13.5 10.6 15.8

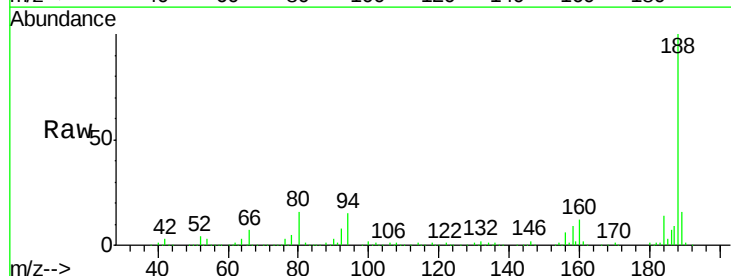


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

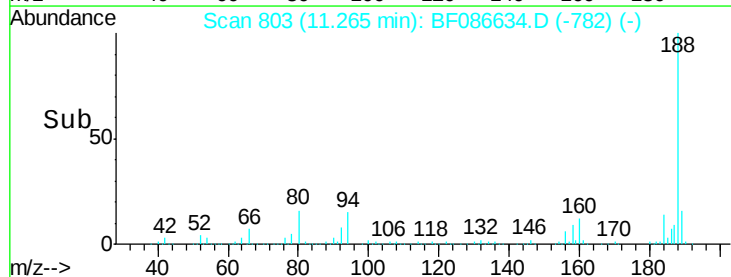
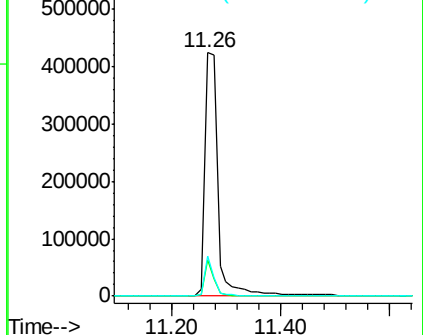


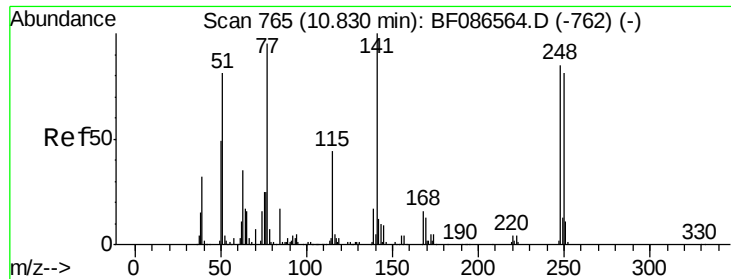
#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 11.26 min Scan# 803  
 Delta R.T. -0.06 min  
 Lab File: BF086634.D  
 Acq: 2 May 2016 23:14

Tgt Ion:188 Resp: 707183  
 Ion Ratio Lower Upper  
 188 100  
 94 15.1 6.8 10.2#  
 80 16.5 7.1 10.7#



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

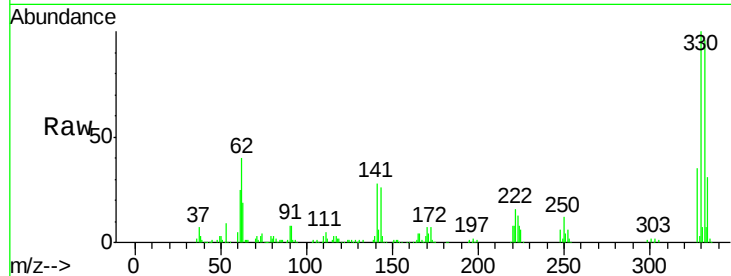




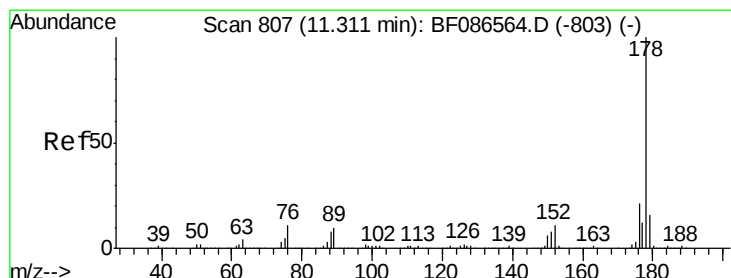
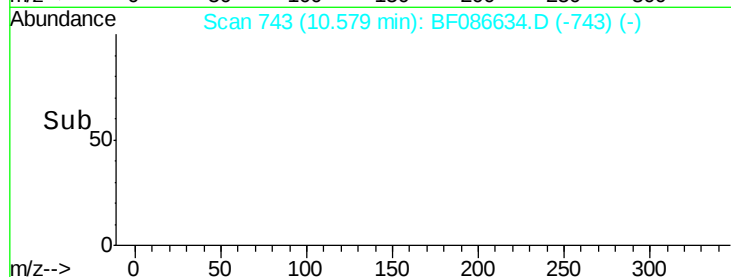
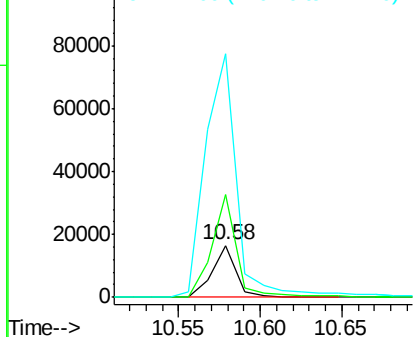
#66  
4-Bromophenyl-phenylether  
Concen: 2.31 ng  
RT: 10.58 min Scan# 743  
Delta R.T. -0.30 min  
Lab File: BF086634.D  
Acq: 2 May 2016 23:14

Instrument :  
BNA\_F  
ClientSampleId :  
TEC-B4COMPDL

Tgt Ion:248 Resp: 16837  
Ion Ratio Lower Upper  
248 100  
250 198.9 78.6 117.8#  
141 471.9 76.0 114.0#

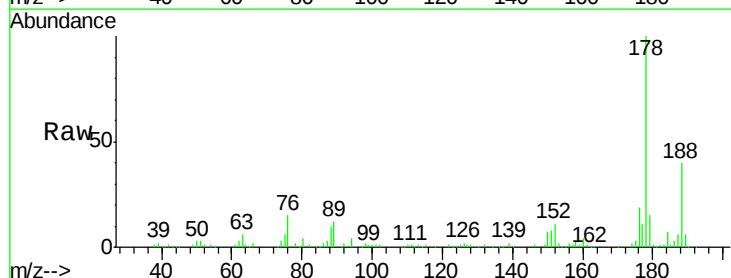


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

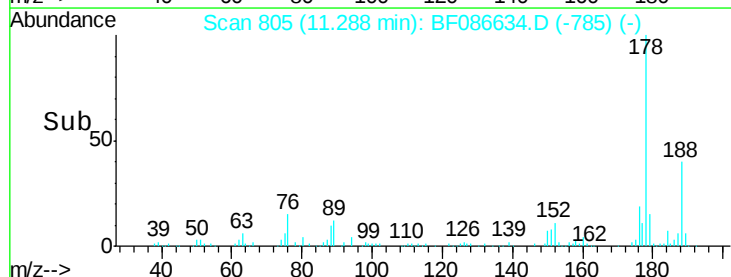
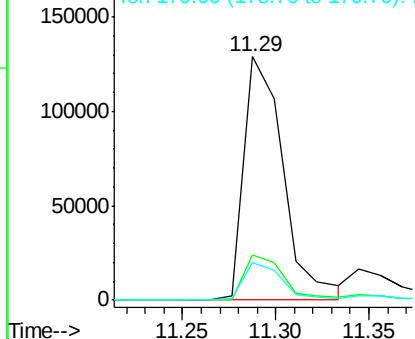


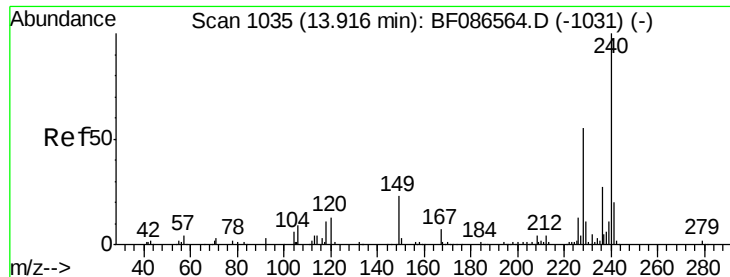
#70  
Phenanthrene  
Concen: 5.09 ng  
RT: 11.29 min Scan# 805  
Delta R.T. -0.07 min  
Lab File: BF086634.D  
Acq: 2 May 2016 23:14

Tgt Ion:178 Resp: 188851  
Ion Ratio Lower Upper  
178 100  
176 18.6 16.0 24.0  
179 15.3 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: 13.89 min Scan# 1033

Delta R.T. -0.07 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

Instrument :

BNA\_F

ClientSampleId :

TEC-B4COMPDL

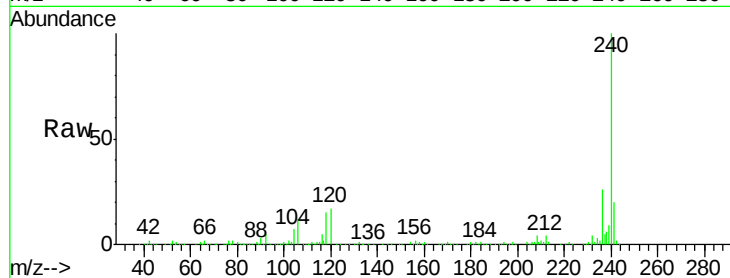
Tgt Ion:240 Resp: 593651

Ion Ratio Lower Upper

240 100

120 17.2 11.2 16.8#

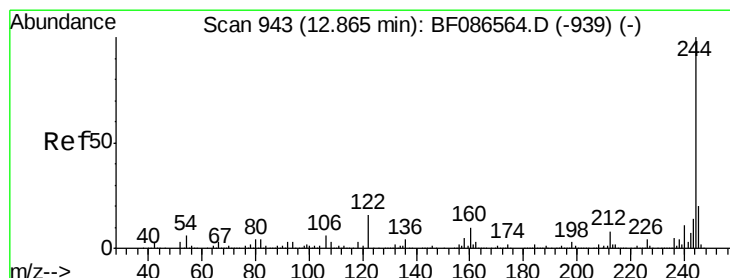
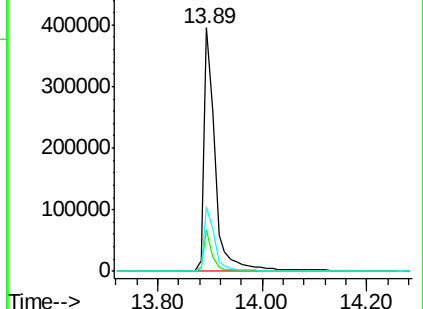
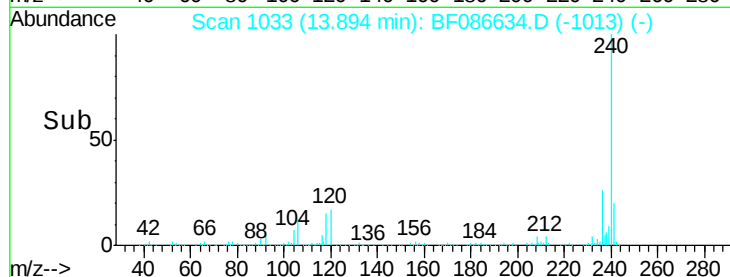
236 26.2 21.2 31.8



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: 41.98 ng

RT: 12.85 min Scan# 942

Delta R.T. -0.06 min

Lab File: BF086634.D

Acq: 2 May 2016 23:14

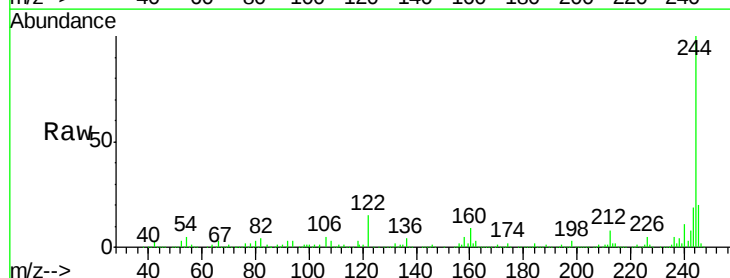
Tgt Ion:244 Resp: 1131201

Ion Ratio Lower Upper

244 100

212 8.0 6.2 9.2

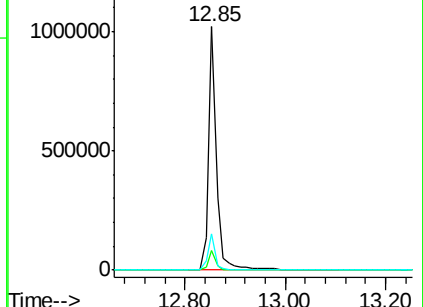
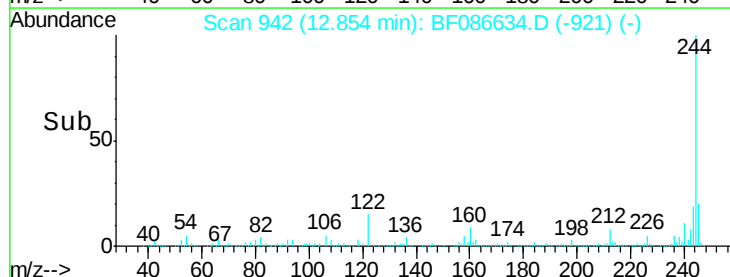
122 14.8 12.0 18.0

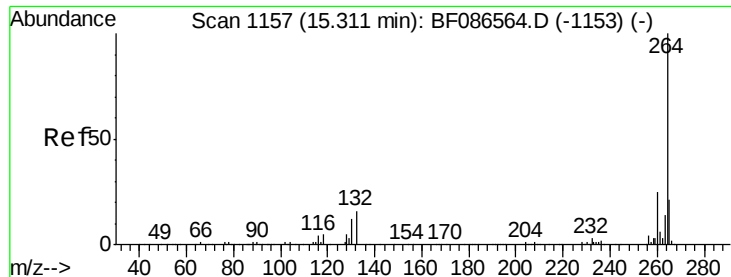


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

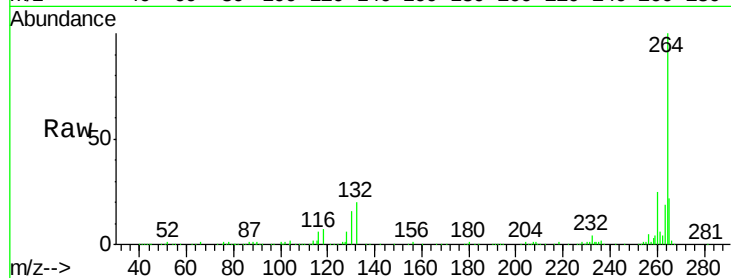




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.29 min Scan# 1155  
Delta R.T. -0.07 min  
Lab File: BF086634.D  
Acq: 2 May 2016 23:14

Instrument :  
BNA\_F  
ClientSampleId :  
TEC-B4COMPDL

Tgt Ion: 264 Resp: 386784  
Ion Ratio Lower Upper  
264 100  
260 24.6 19.5 29.3  
265 21.5 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

