

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062216\  
 Data File : BF088287.D  
 Acq On : 23 Jun 2016 10:50  
 Operator : UM/SJ  
 Sample : H3084-06  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 23 13:53:00 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 22 14:55:14 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.60  | 152  | 22330    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.90  | 136  | 85936    | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.63  | 164  | 37915    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.12 | 188  | 56297    | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.75 | 240  | 53109    | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.12 | 264  | 38142    | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.21  | 112  | 19968    | 15.29 | ng    | 0.03     |
| 7) Phenol-d6                | 6.28  | 99   | 16991    | 10.73 | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 7.18  | 82   | 26386    | 17.93 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.43 | 330  | 11635    | 29.06 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 8.98  | 172  | 13835    | 0.21  | ng    | 0.01     |
| 78) Terphenyl-d14           | 12.70 | 244  | 44686    | 19.15 | ng    | 0.00     |

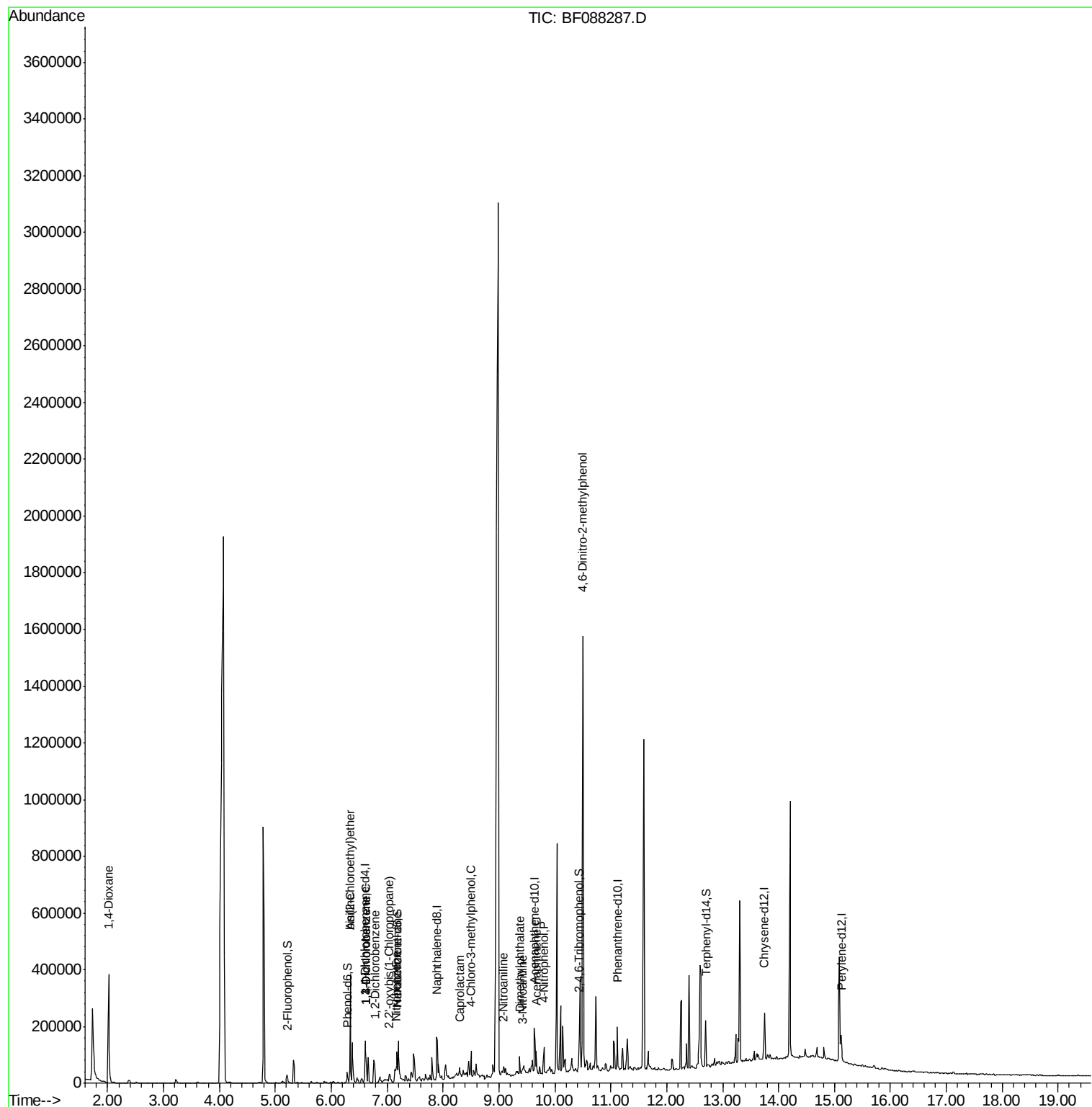
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 2.02  | 88   | 204944   | 322.90 | ng    | # 42   |
| 6) Aniline                     | 6.34  | 93   | 106520   | 47.28  | ng    | # 56   |
| 11) bis(2-Chloroethyl)ether    | 6.34  | 93   | 106520   | 76.74  | ng    | # 86   |
| 12) 1,3-Dichlorobenzene        | 6.62  | 146  | 34858    | 21.01  | ng    | # 96   |
| 13) 1,4-Dichlorobenzene        | 6.62  | 146  | 34858    | 20.86  | ng    | # 95   |
| 14) 1,2-Dichlorobenzene        | 6.78  | 146  | 17022    | 11.20  | ng    | # 95   |
| 16) 2,2'-oxybis(1-Chloropropan | 7.04  | 45   | 10575    | 5.64   | ng    | # 76   |
| 18) Hexachloroethane           | 7.18  | 117  | 3660     | 6.17   | ng    | # 12   |
| 24) Nitrobenzene               | 7.16  | 77   | 4105     | 2.88   | ng    | # 31   |
| 35) Caprolactam                | 8.30  | 113  | 2041     | 5.25   | ng    | # 15   |
| 36) 4-Chloro-3-methylphenol    | 8.50  | 107  | 14077    | 11.21  | ng    | # 19   |
| 45) 1,1'-Biphenyl              | 9.05  | 154  | 2209     | Below  | Cal   | # 43   |
| 47) 2-Nitroaniline             | 9.08  | 65   | 1470     | 2.03   | ng    | # 5    |
| 49) Dimethylphthalate          | 9.37  | 163  | 24543    | 8.94   | ng    | # 98   |
| 51) Acenaphthene               | 9.67  | 154  | 16590    | 6.81   | ng    | # 96   |
| 52) 3-Nitroaniline             | 9.43  | 138  | 32310    | 44.52  | ng    | # 1    |
| 55) 4-Nitrophenol              | 9.80  | 139  | 1455     | 2.58   | ng    | # 1    |
| 57) Fluorene                   | 10.18 | 166  | 10707    | Below  | Cal   | # 97   |
| 64) 4,6-Dinitro-2-methylphenol | 10.50 | 198  | 87182    | 239.04 | ng    | # 24   |

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

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 Misc :  
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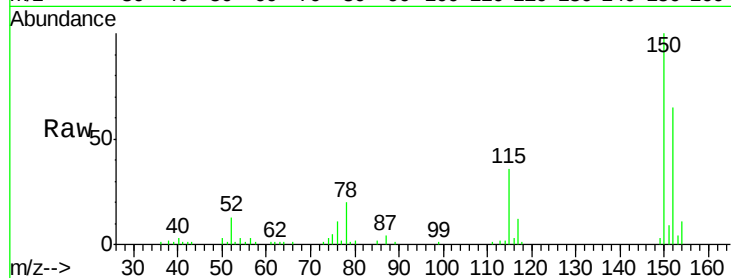




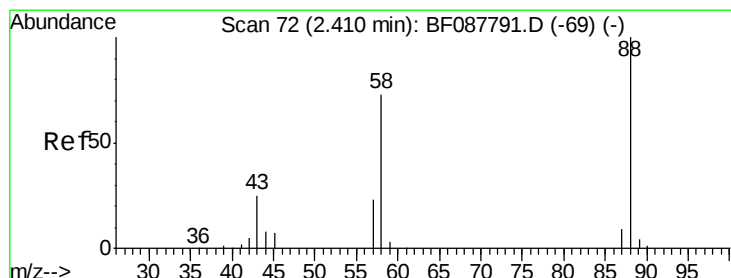
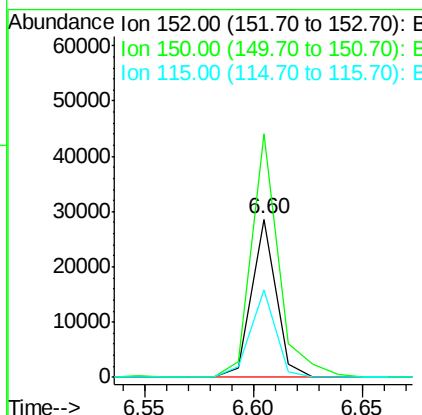
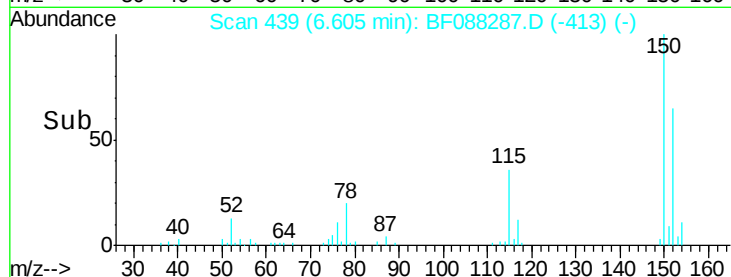
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.60 min Scan# 439  
 Delta R.T. 0.00 min  
 Lab File: BF088287.D  
 Acq: 23 Jun 2016 10:50

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:152 Resp: 22330  
 Ion Ratio Lower Upper  
 152 100  
 150 154.2 123.8 185.6  
 115 55.6 39.6 59.4

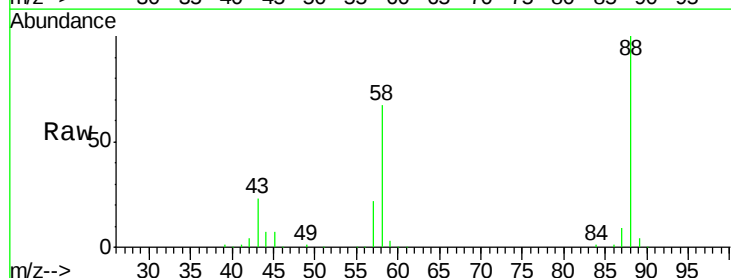


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

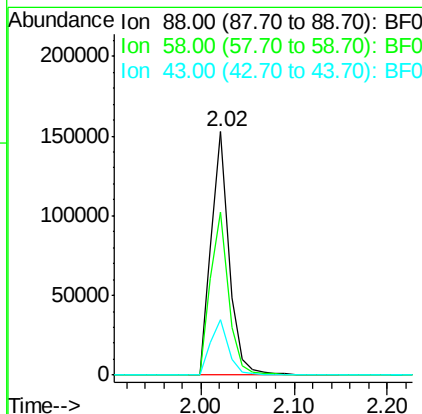
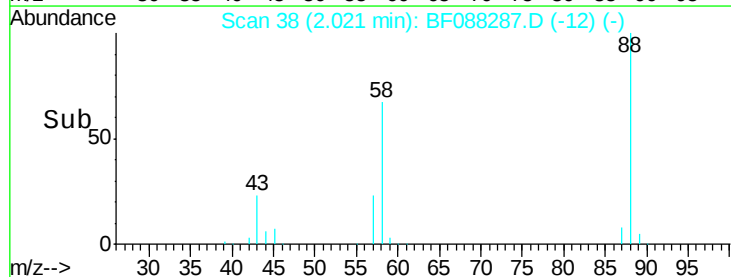


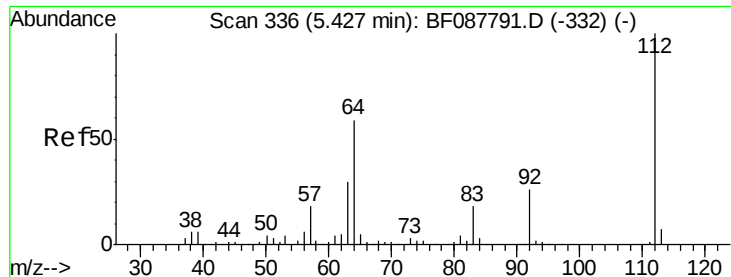
#2  
 1,4-Dioxane  
 Concen: 322.90 ng  
 RT: 2.02 min Scan# 38  
 Delta R.T. 0.00 min  
 Lab File: BF088287.D  
 Acq: 23 Jun 2016 10:50

Tgt Ion: 88 Resp: 204944  
 Ion Ratio Lower Upper  
 88 100  
 58 68.0 0.0 0.0#  
 43 23.4 3.4 5.2#



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: 15.29 ng

RT: 5.21 min Scan# 317

Delta R.T. 0.03 min

Lab File: BF088287.D

Acq: 23 Jun 2016 10:50

Instrument :

BNA\_F

ClientSampleId :

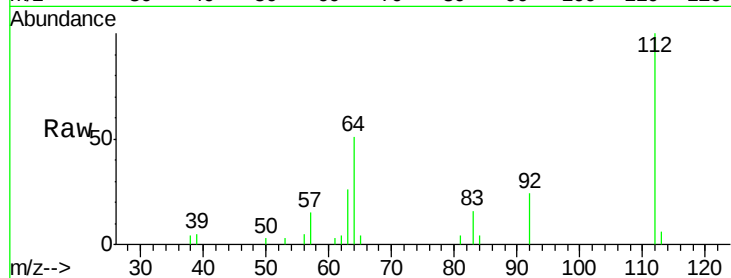
Tot Ion:112 Resp: 19968

Ion Ratio Lower Upper

112 100

64 50.5 42.2 63.2

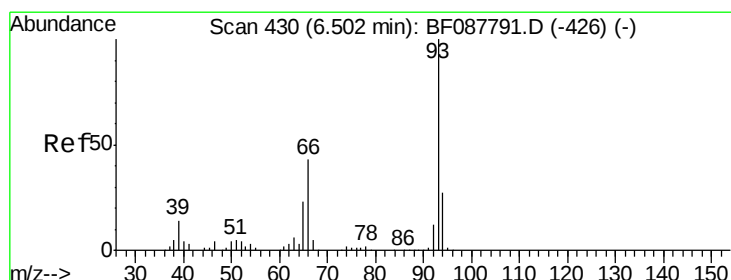
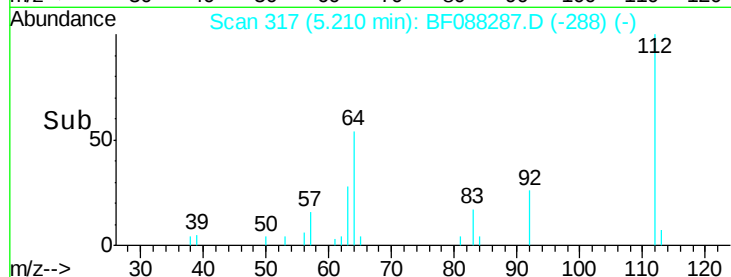
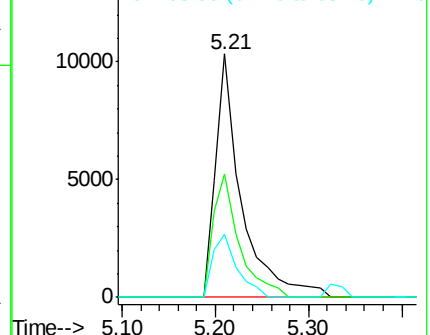
63 26.1 21.8 32.8



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: 47.28 ng

RT: 6.34 min Scan# 416

Delta R.T. 0.07 min

Lab File: BF088287.D

Acq: 23 Jun 2016 10:50

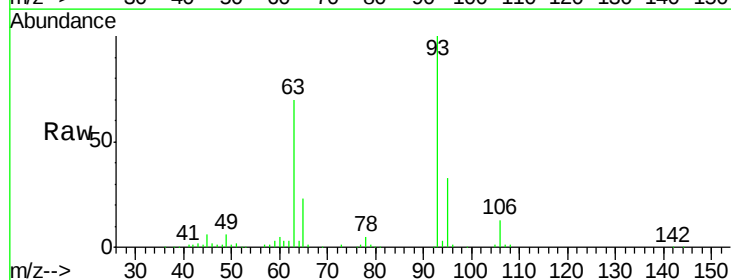
Tgt Ion: 93 Resp: 106520

Ion Ratio Lower Upper

93 100

66 0.5 29.8 44.8#

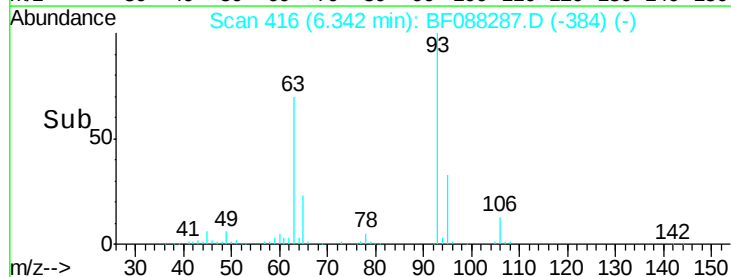
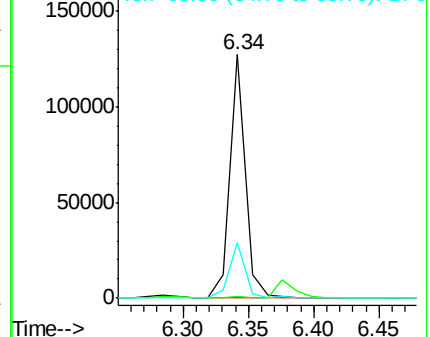
65 22.6 14.9 22.3#

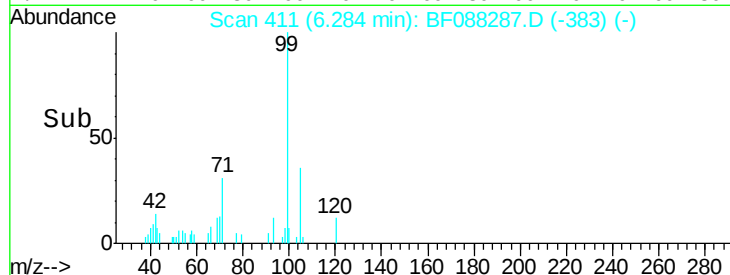
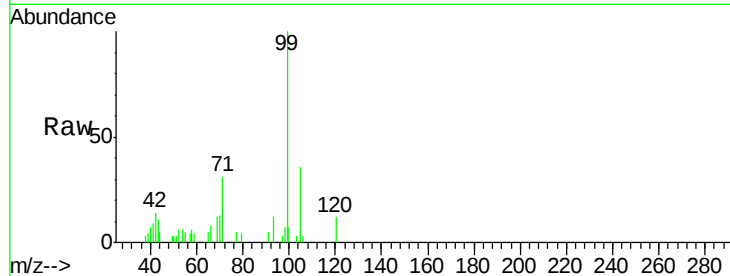
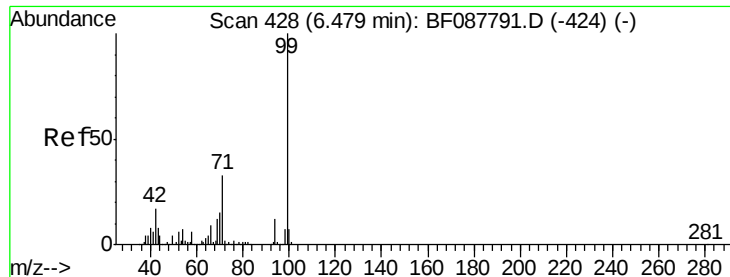


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 10.73 ng

RT: 6.28 min Scan# 411

Delta R.T. 0.02 min

Lab File: BF088287.D

Acq: 23 Jun 2016 10:50

Instrument :

BNA\_F

ClientSampleId :

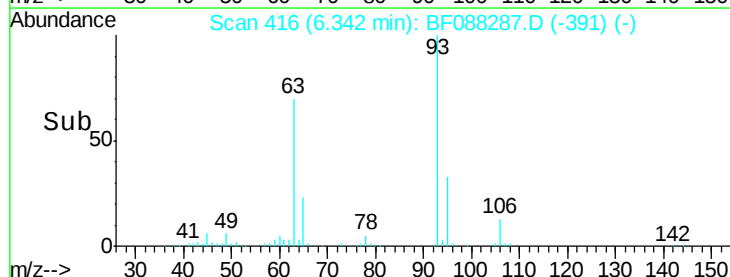
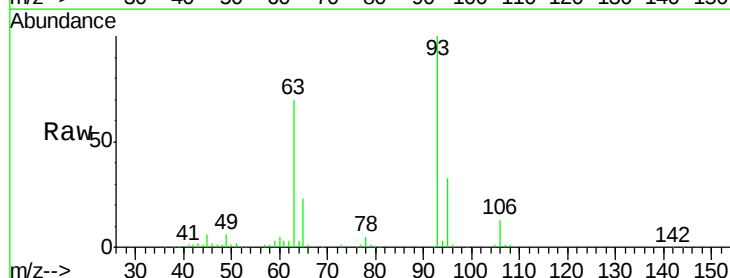
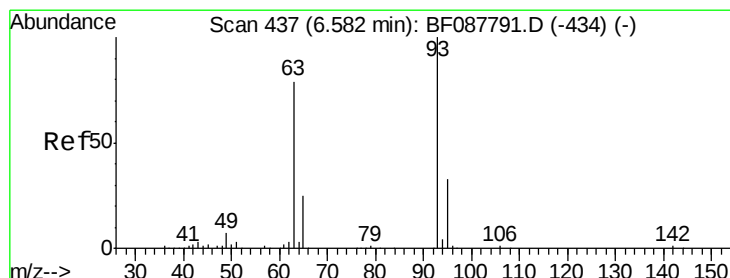
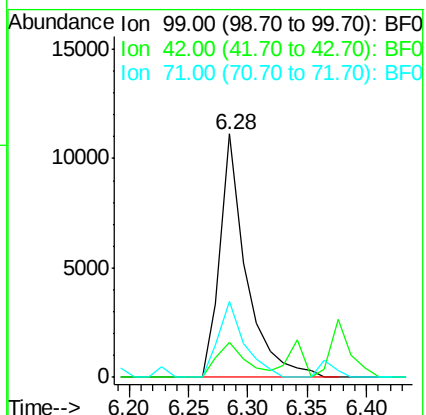
Tot Ion: 99 Resp: 16991

Ion Ratio Lower Upper

99 100

42 14.2 12.2 18.2

71 31.1 23.4 35.0



#11

bis(2-Chloroethyl)ether

Concen: 76.74 ng

RT: 6.34 min Scan# 416

Delta R.T. -0.01 min

Lab File: BF088287.D

Acq: 23 Jun 2016 10:50

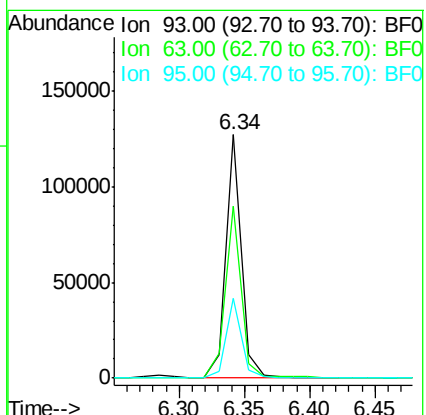
Tgt Ion: 93 Resp: 106520

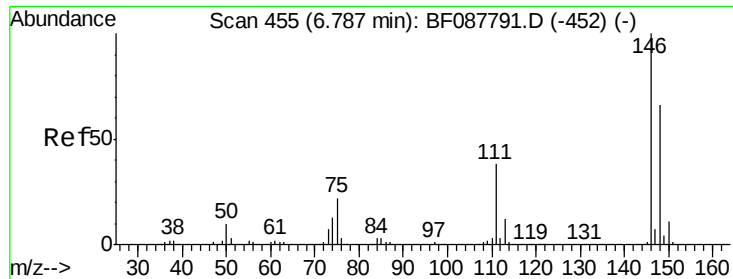
Ion Ratio Lower Upper

93 100

63 70.4 67.6 107.6

95 32.7 12.5 52.5





#12

1,3-Dichlorobenzene

Concen: 21.01 ng

RT: 6.62 min Scan# 440

Delta R.T. 0.08 min

Lab File: BF088287.D

Acq: 23 Jun 2016 10:50

Instrument :

BNA\_F

ClientSampleId :

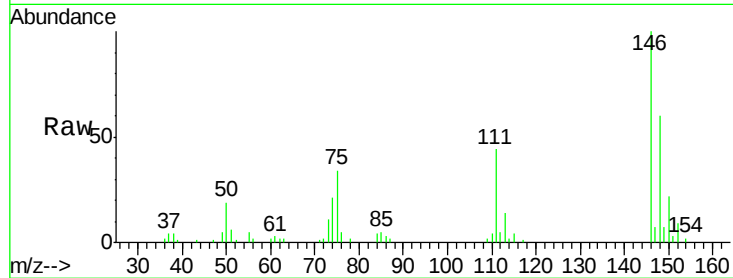
Tot Ion:146 Resp: 34858

Ion Ratio Lower Upper

146 100

148 60.1 50.9 76.3

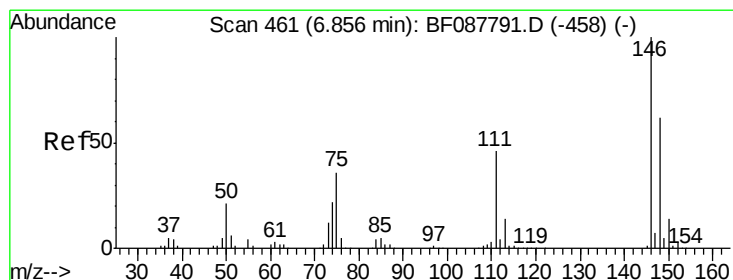
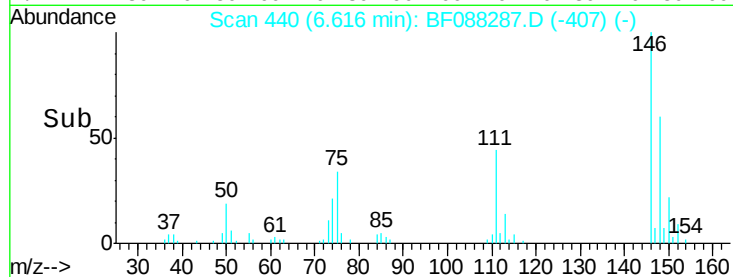
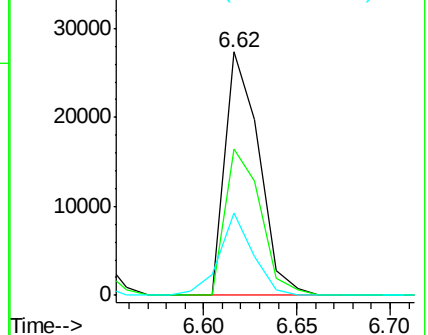
75 33.8 25.6 38.4



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0



#13

1,4-Dichlorobenzene

Concen: 20.86 ng

RT: 6.62 min Scan# 440

Delta R.T. 0.00 min

Lab File: BF088287.D

Acq: 23 Jun 2016 10:50

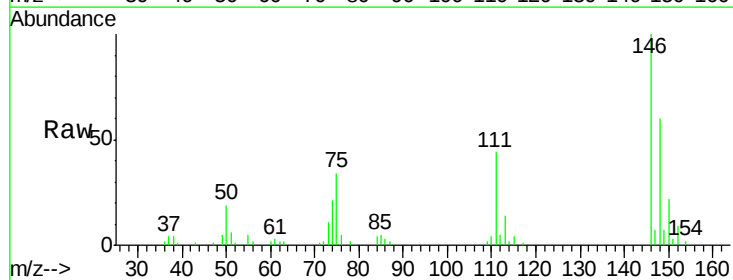
Tgt Ion:146 Resp: 34858

Ion Ratio Lower Upper

146 100

148 60.1 52.0 78.0

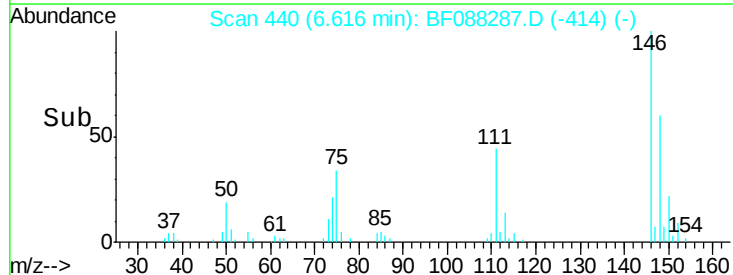
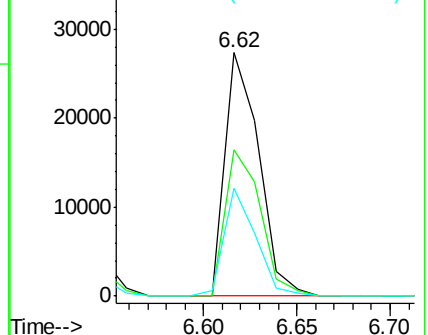
111 44.3 33.8 50.8

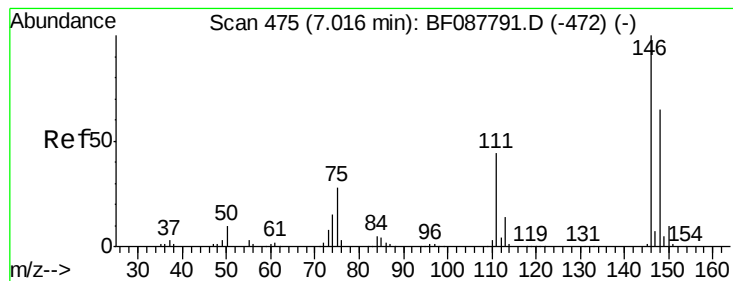


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E

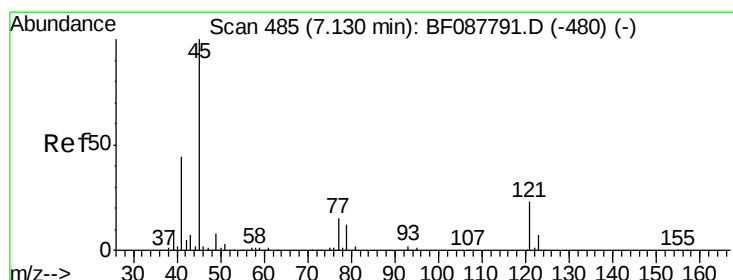
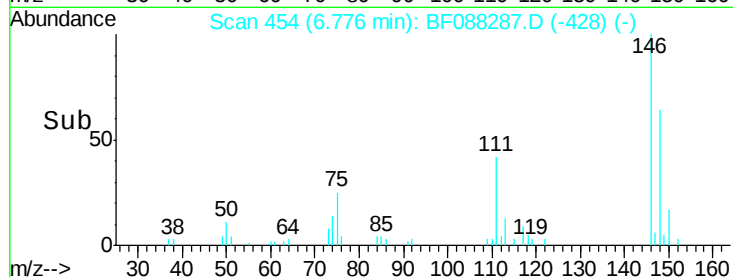
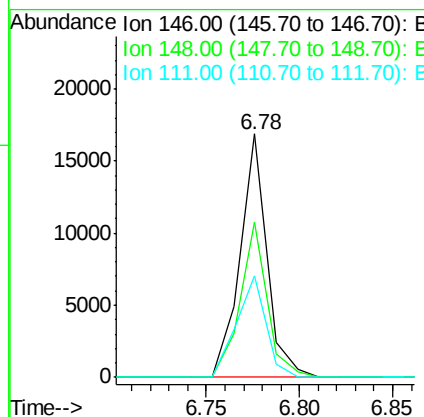
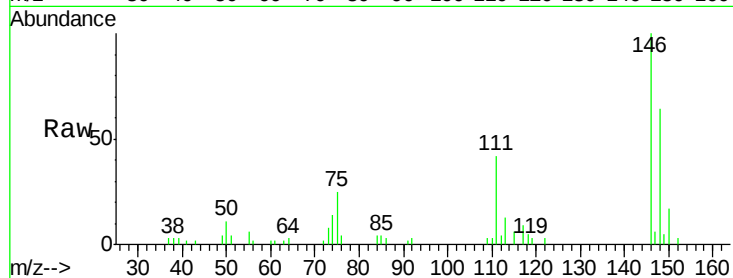




#14  
 1,2-Dichlorobenzene  
 Concen: 11.20 ng  
 RT: 6.78 min Scan# 454  
 Delta R.T. 0.00 min  
 Lab File: BF088287.D  
 Acq: 23 Jun 2016 10:50

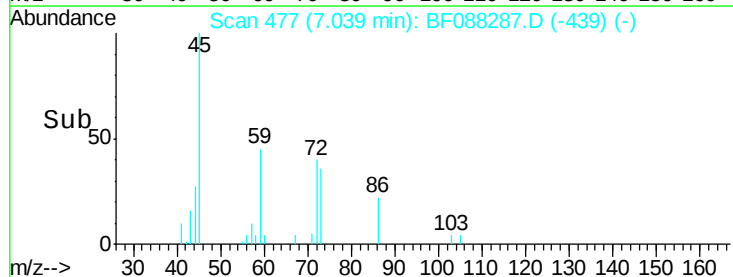
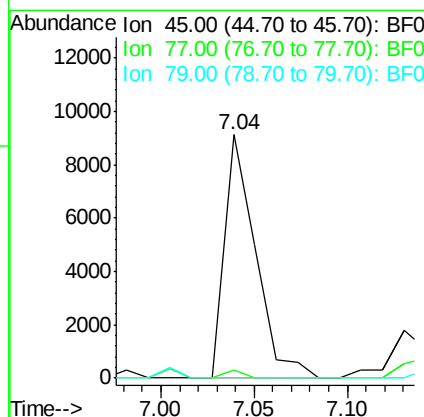
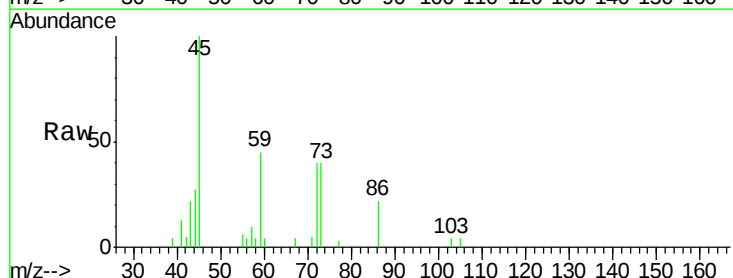
Instrument :  
 BNA\_F  
 ClientSampled :

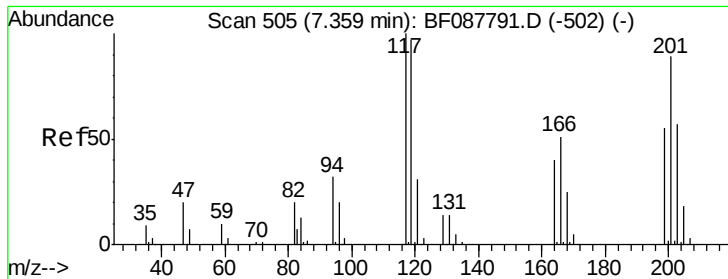
Tot Ion:146 Resp: 17022  
 Ion Ratio Lower Upper  
 146 100  
 148 63.8 52.3 78.5  
 111 41.7 28.7 43.1



#16  
 2,2'-oxybis(1-chloropropane)  
 Concen: 5.64 ng  
 RT: 7.04 min Scan# 477  
 Delta R.T. 0.14 min  
 Lab File: BF088287.D  
 Acq: 23 Jun 2016 10:50

Tgt Ion: 45 Resp: 10575  
 Ion Ratio Lower Upper  
 45 100  
 77 3.5 0.0 32.5  
 79 0.0 0.0 29.5

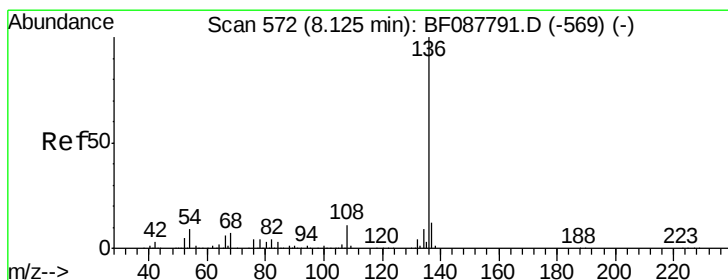
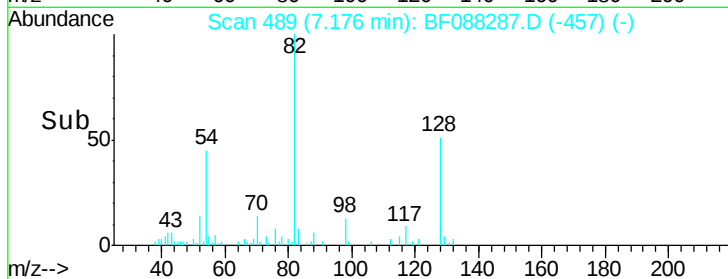
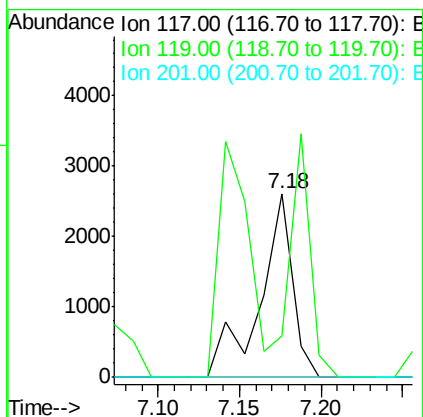
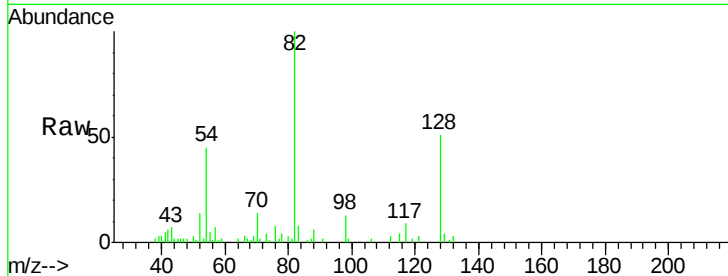




#18  
Hexachloroethane  
Concen: 6.17 ng  
RT: 7.18 min Scan# 489  
Delta R.T. 0.07 min  
Lab File: BF088287.D  
Acq: 23 Jun 2016 10:50

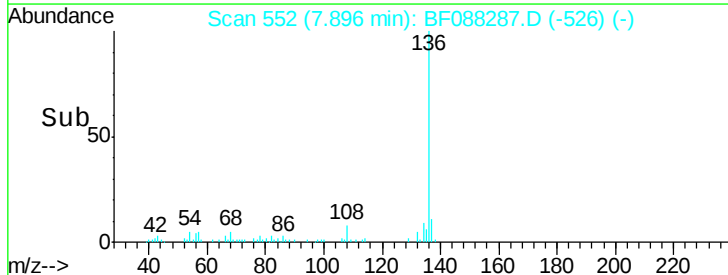
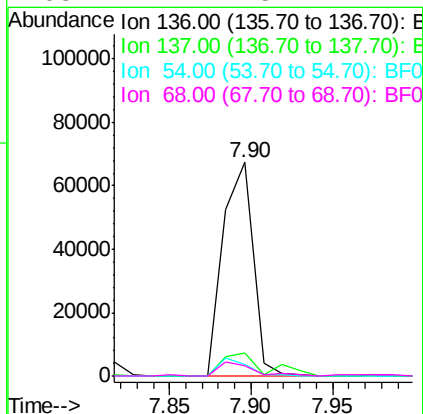
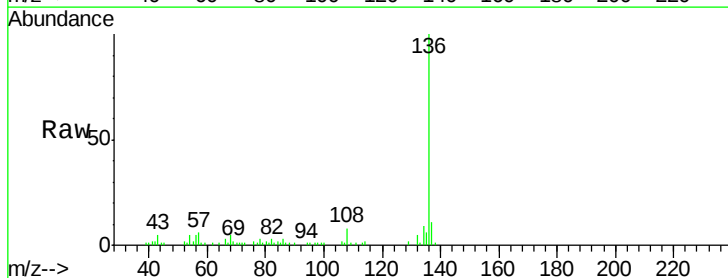
Instrument :  
BNA\_F  
ClientSampleId :

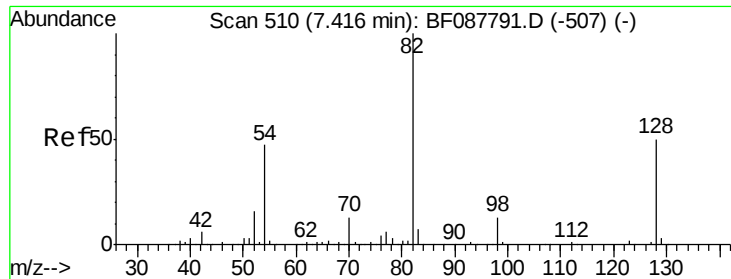
Tot Ion:117 Resp: 3660  
Ion Ratio Lower Upper  
117 100  
119 22.7 77.4 116.2#  
201 0.0 80.4 120.6#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.90 min Scan# 552  
Delta R.T. 0.00 min  
Lab File: BF088287.D  
Acq: 23 Jun 2016 10:50

Tgt Ion:136 Resp: 85936  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.1 13.7  
54 5.4 6.6 10.0#  
68 4.7 5.1 7.7#

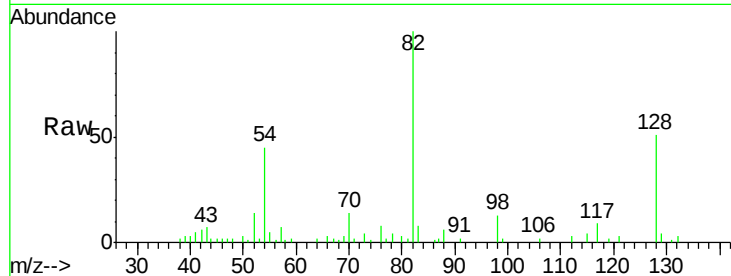




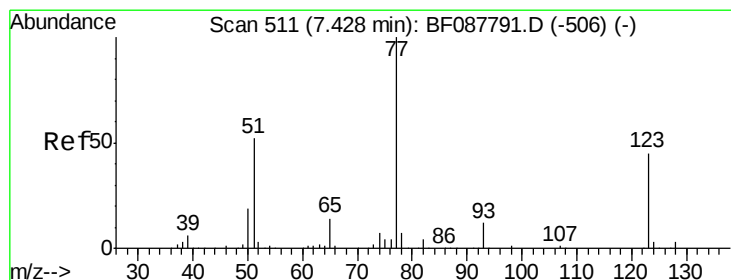
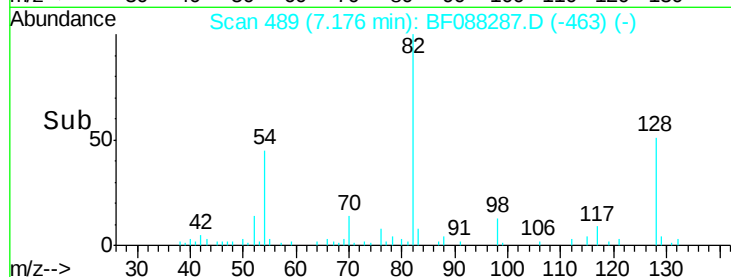
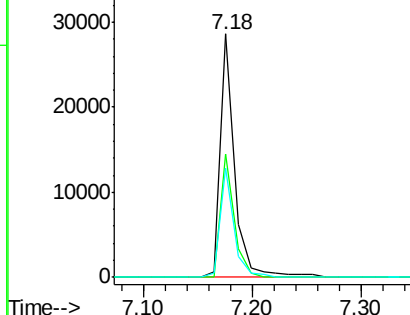
#23  
 Nitrobenzene-d5  
 Concen: 17.93 ng  
 RT: 7.18 min Scan# 489  
 Delta R.T. 0.00 min  
 Lab File: BF088287.D  
 Acq: 23 Jun 2016 10:50

Instrument :  
 BNA\_F  
 ClientSampleID :

Tot Ion: 82 Resp: 26386  
 Ion Ratio Lower Upper  
 82 100  
 128 50.9 35.9 53.9  
 54 45.0 40.9 61.3

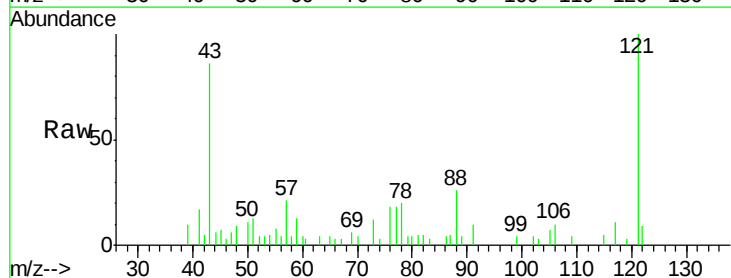


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

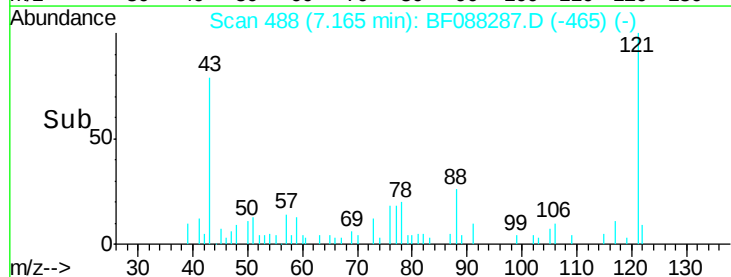
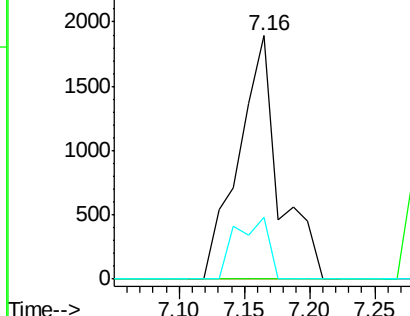


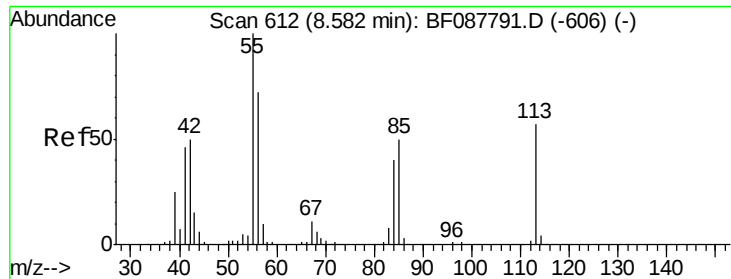
#24  
 Nitrobenzene  
 Concen: 2.88 ng  
 RT: 7.16 min Scan# 488  
 Delta R.T. -0.03 min  
 Lab File: BF088287.D  
 Acq: 23 Jun 2016 10:50

Tgt Ion: 77 Resp: 4105  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 45.0 67.4#  
 65 25.2 10.2 15.2#



Abundance Ion 77.00 (76.70 to 77.70): BF0  
 Ion 123.00 (122.70 to 123.70): BF0  
 Ion 65.00 (64.70 to 65.70): BF0

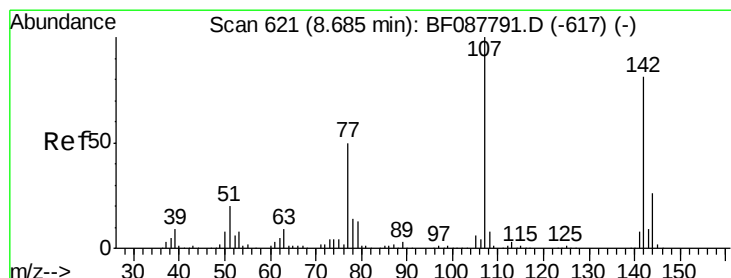
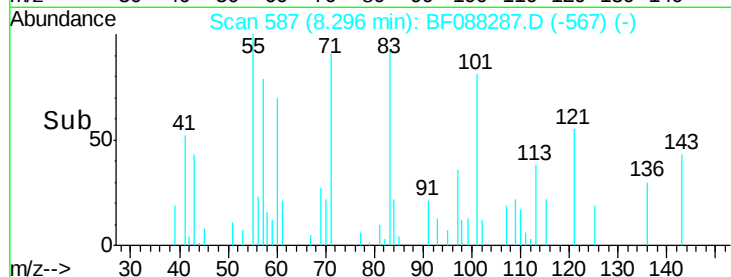
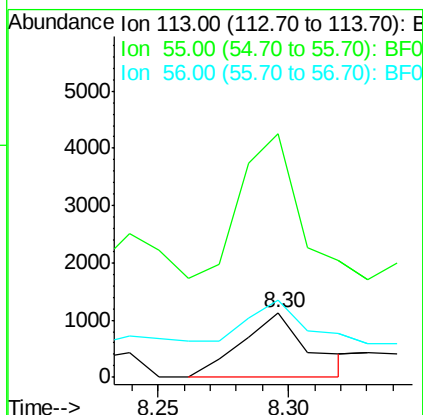
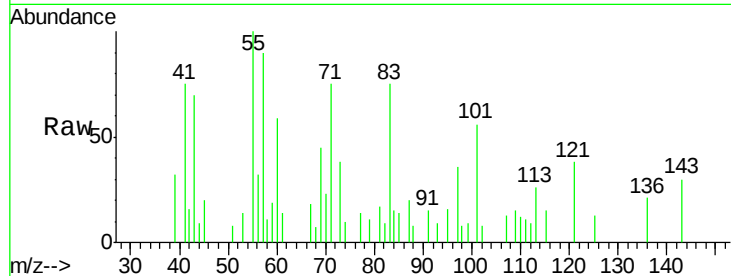




#35  
 Caprolactam  
 Concen: 5.25 ng  
 RT: 8.30 min Scan# 587  
 Delta R.T. -0.07 min  
 Lab File: BF088287.D  
 Acq: 23 Jun 2016 10:50

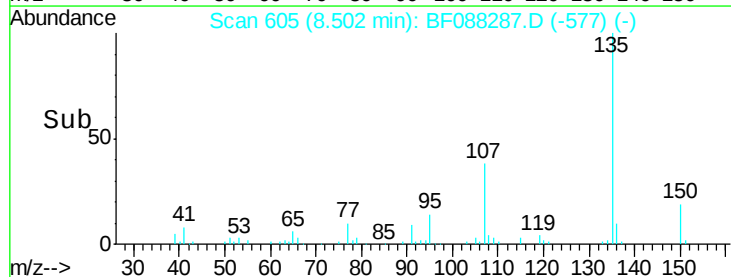
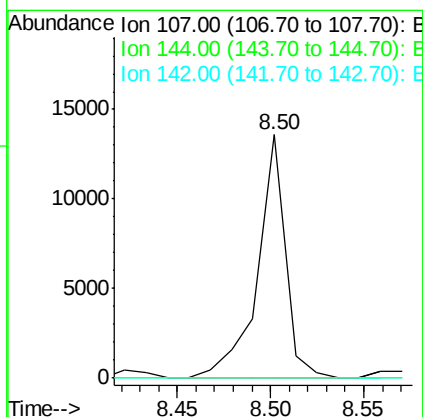
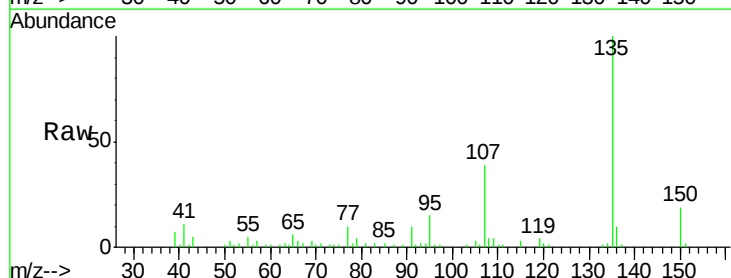
Instrument :  
 BNA\_F  
 ClientSampleId :

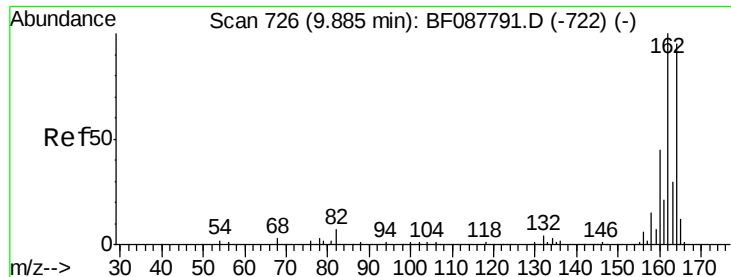
Tot Ion:113 Resp: 2041  
 Ion Ratio Lower Upper  
 113 100  
 55 377.4 158.6 198.6#  
 56 119.2 110.6 150.6



#36  
 4-Chloro-3-methylphenol  
 Concen: 11.21 ng  
 RT: 8.50 min Scan# 605  
 Delta R.T. 0.02 min  
 Lab File: BF088287.D  
 Acq: 23 Jun 2016 10:50

Tgt Ion:107 Resp: 14077  
 Ion Ratio Lower Upper  
 107 100  
 144 0.0 20.8 31.2#  
 142 0.0 63.4 95.2#

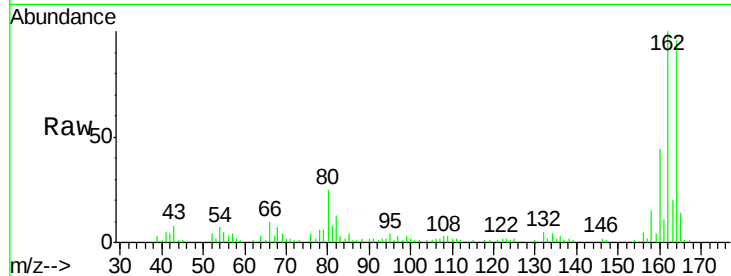




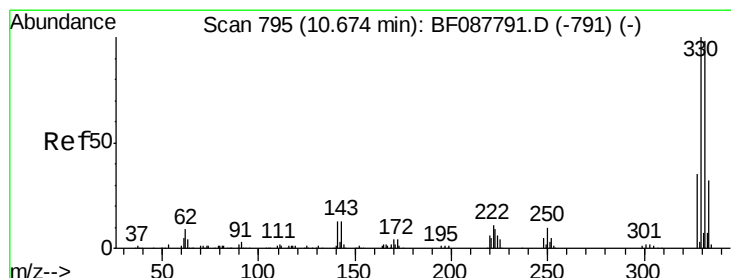
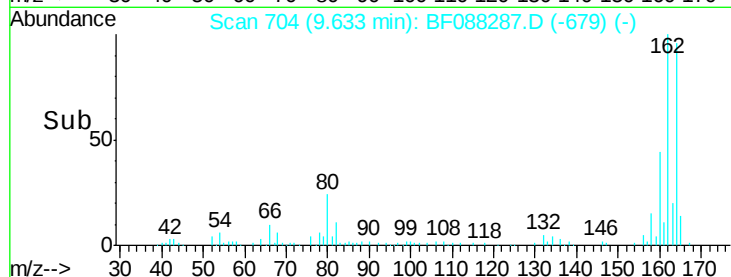
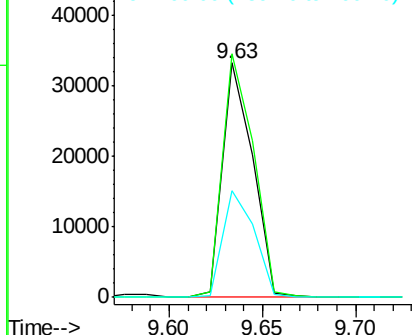
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.63 min Scan# 704  
Delta R.T. -0.01 min  
Lab File: BF088287.D  
Acq: 23 Jun 2016 10:50

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 37915  
Ion Ratio Lower Upper  
164 100  
162 103.9 85.4 128.2  
160 45.6 39.5 59.3

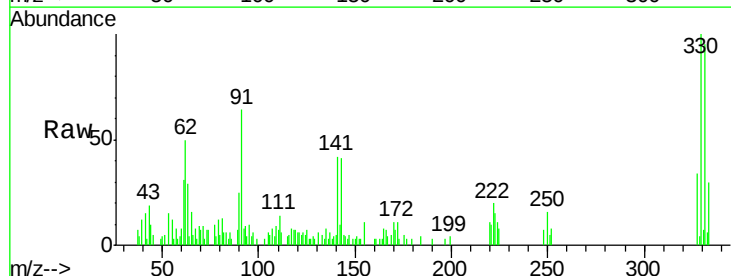


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

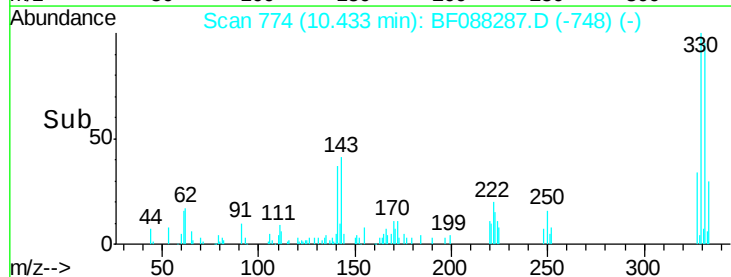
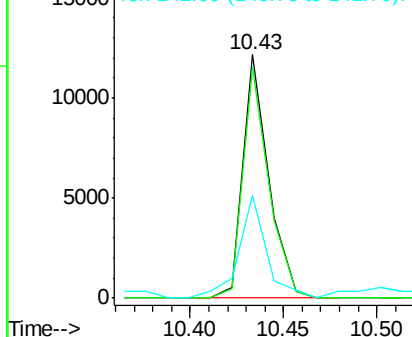


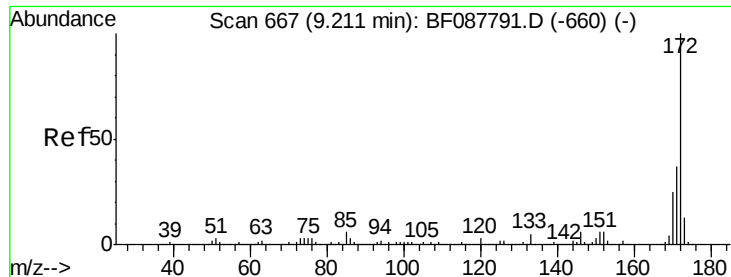
#41  
2,4,6-Tribromophenol  
Concen: 29.06 ng  
RT: 10.43 min Scan# 774  
Delta R.T. 0.00 min  
Lab File: BF088287.D  
Acq: 23 Jun 2016 10:50

Tgt Ion:330 Resp: 11635  
Ion Ratio Lower Upper  
330 100  
332 95.7 0.0 0.0#  
141 45.6 0.0 0.0#



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

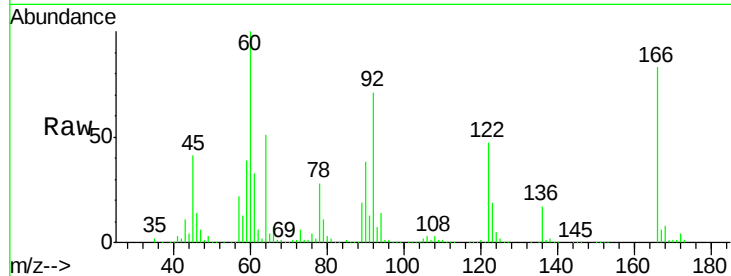




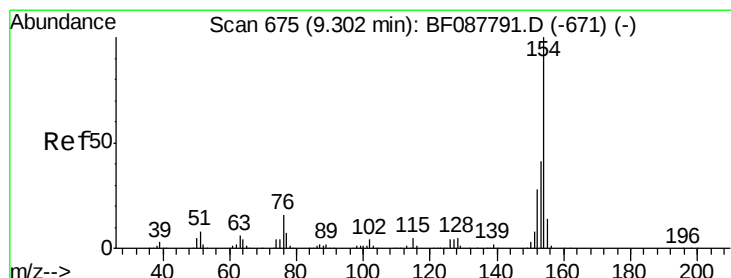
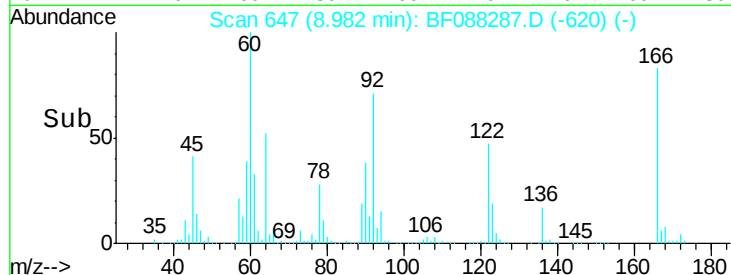
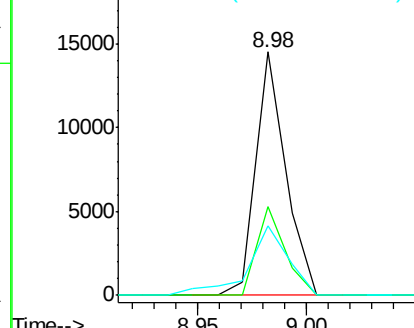
#44  
2-Fluorobiphenyl  
Concen: 0.21 na  
RT: 8.98 min Scan# 647  
Delta R.T. 0.01 min  
Lab File: BF088287.D  
Acq: 23 Jun 2016 10:50

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 13835  
Ion Ratio Lower Upper  
172 100  
171 36.5 28.6 43.0  
170 28.4 19.2 28.8

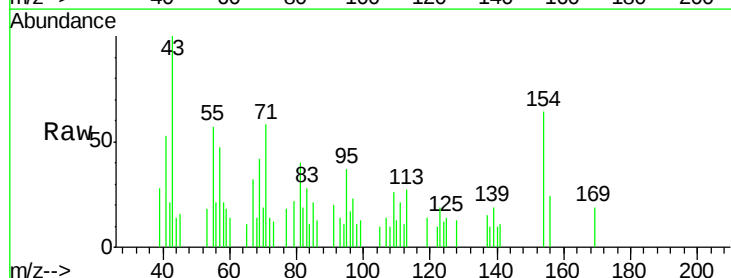


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

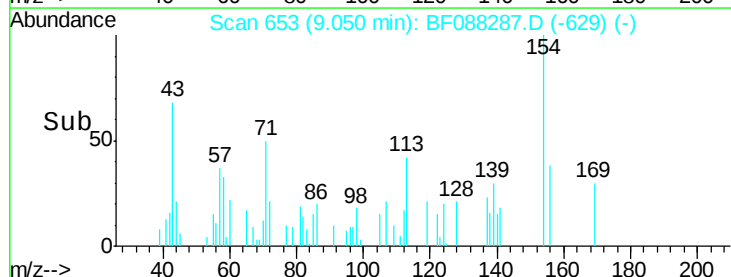
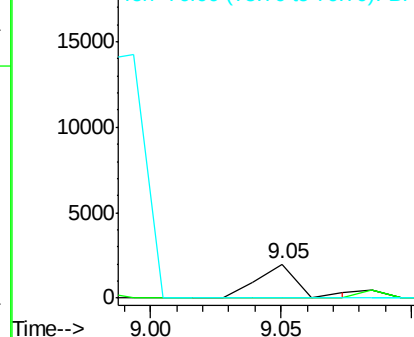


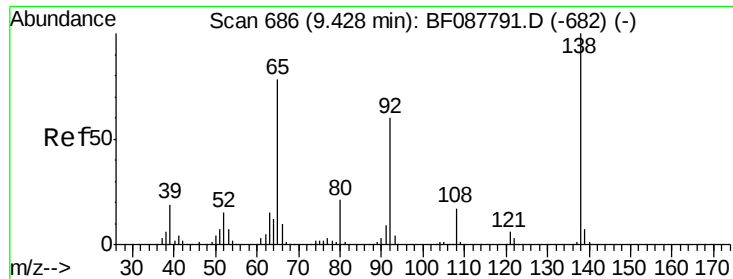
#45  
1,1'-Biphenyl  
Concen: Below Cal  
RT: 9.05 min Scan# 653  
Delta R.T. -0.02 min  
Lab File: BF088287.D  
Acq: 23 Jun 2016 10:50

Tgt Ion:154 Resp: 2209  
Ion Ratio Lower Upper  
154 100  
153 0.0 20.6 60.6#  
76 0.0 0.0 35.1



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BF0

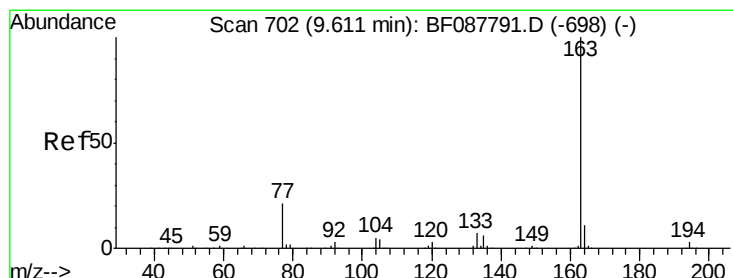
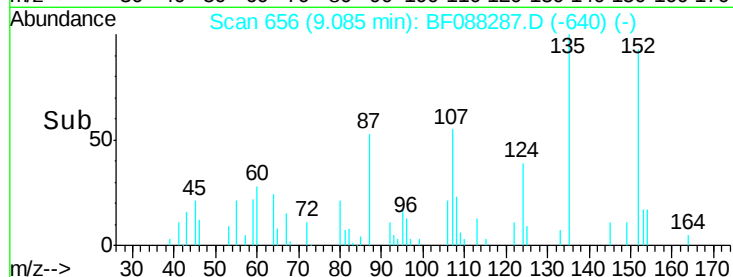
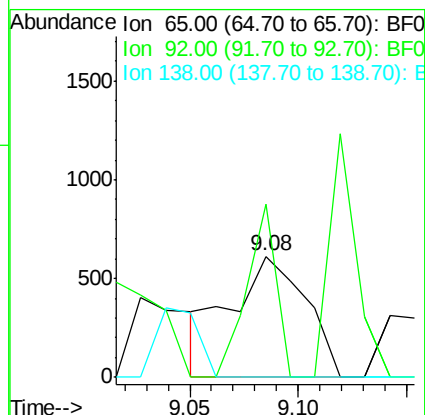
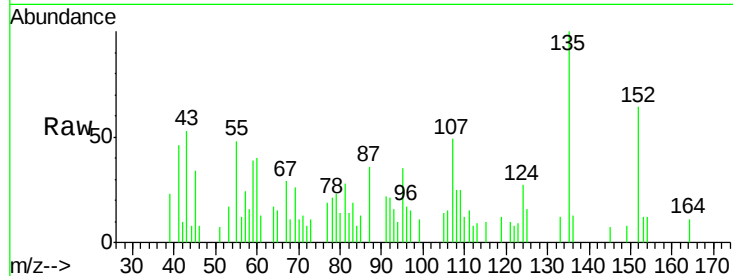




#47  
2-Nitroaniline  
Concen: 2.03 ng  
RT: 9.08 min Scan# 656  
Delta R.T. -0.11 min  
Lab File: BF088287.D  
Acq: 23 Jun 2016 10:50

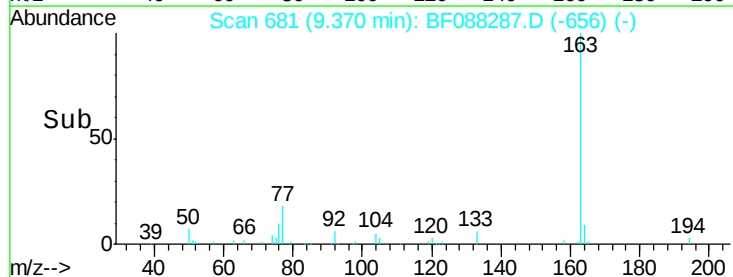
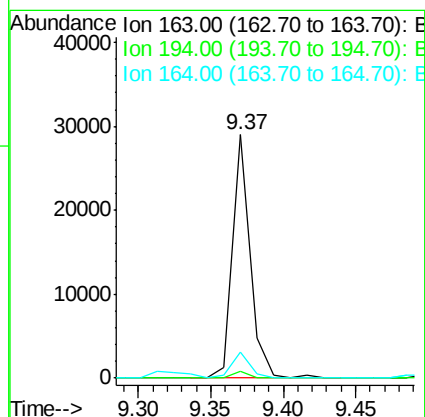
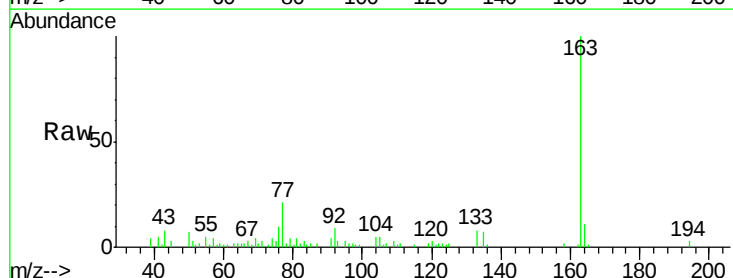
Instrument :  
BNA\_F  
ClientSampleId :

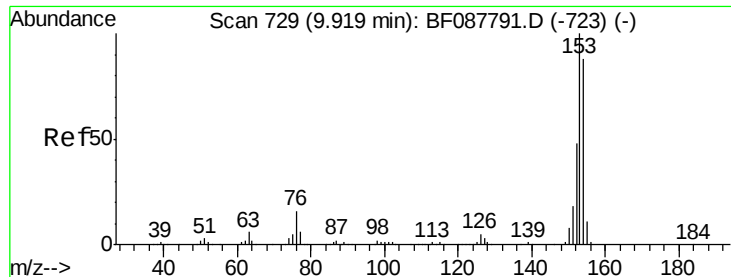
Tot Ion: 65 Resp: 1470  
Ion Ratio Lower Upper  
65 100  
92 142.3 54.6 82.0#  
138 0.0 77.0 115.4#



#49  
Dimethylphthalate  
Concen: 8.94 ng  
RT: 9.37 min Scan# 681  
Delta R.T. -0.01 min  
Lab File: BF088287.D  
Acq: 23 Jun 2016 10:50

Tgt Ion:163 Resp: 24543  
Ion Ratio Lower Upper  
163 100  
194 2.7 2.8 4.2#  
164 10.9 8.3 12.5





#51

Acenaphthene

Concen: 6.81 ng

RT: 9.67 min Scan# 707

Delta R.T. -0.01 min

Lab File: BF088287.D

Acq: 23 Jun 2016 10:50

Instrument :

BNA\_F

ClientSampleId :

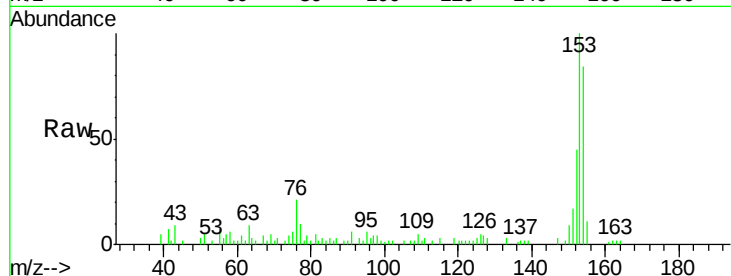
Tot Ion:154 Resp: 16590

Ion Ratio Lower Upper

154 100

153 118.6 89.5 134.3

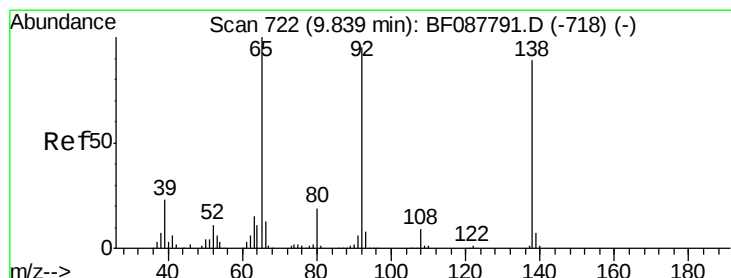
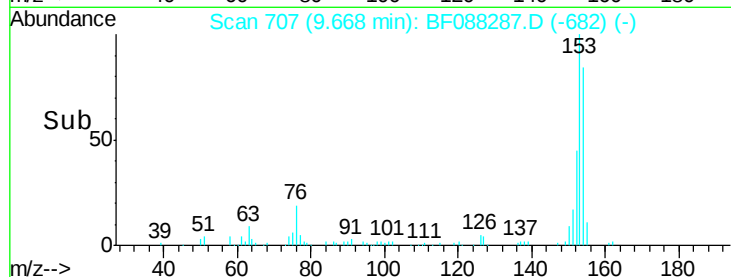
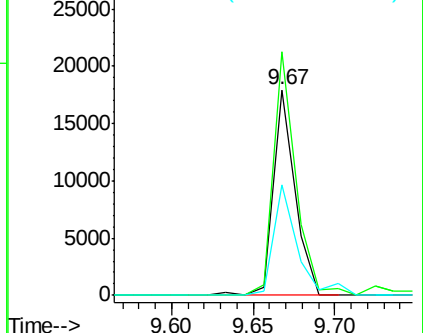
152 53.5 42.7 64.1



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



#52

3-Nitroaniline

Concen: 44.52 ng

RT: 9.43 min Scan# 686

Delta R.T. -0.18 min

Lab File: BF088287.D

Acq: 23 Jun 2016 10:50

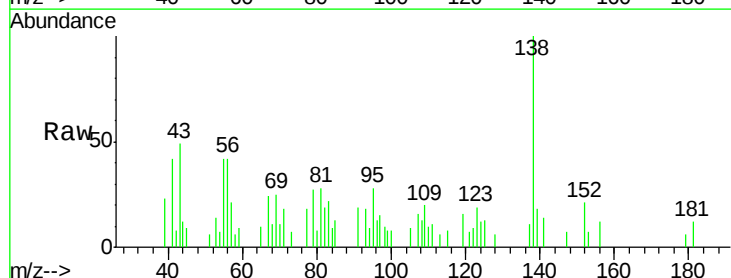
Tgt Ion:138 Resp: 32310

Ion Ratio Lower Upper

138 100

108 13.1 8.5 12.7#

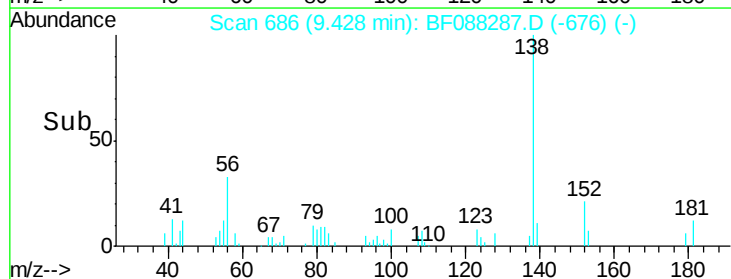
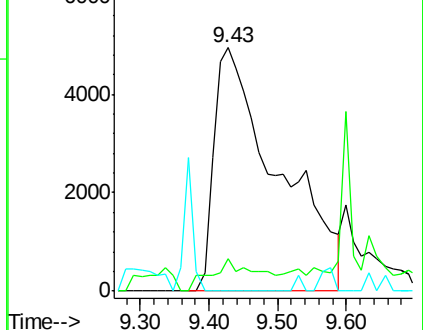
92 0.0 95.7 143.5#

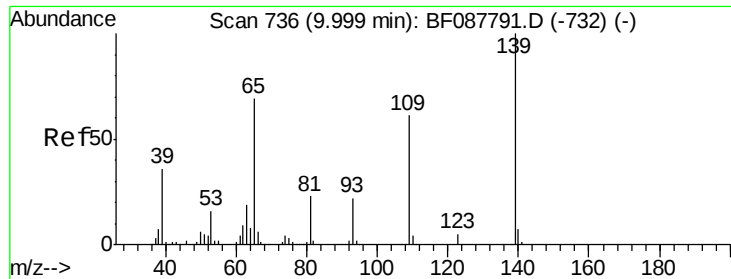


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0





#55

4-Nitrophenol

Concen: 2.58 ng

RT: 9.80 min Scan# 719

Delta R.T. 0.00 min

Lab File: BF088287.D

Acq: 23 Jun 2016 10:50

Instrument :

BNA\_F

ClientSampled :

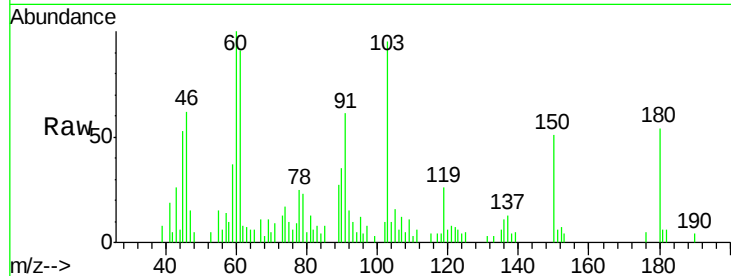
Tot Ion:139 Resp: 1455

Ion Ratio Lower Upper

139 100

109 239.7 48.9 88.9#

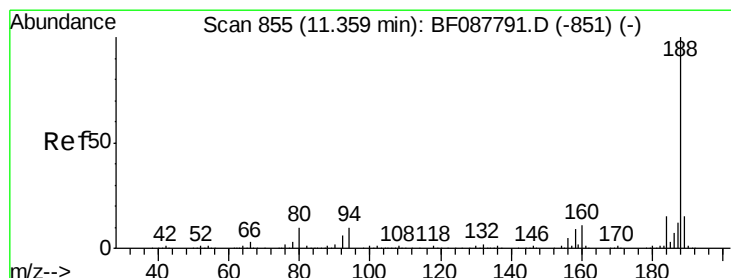
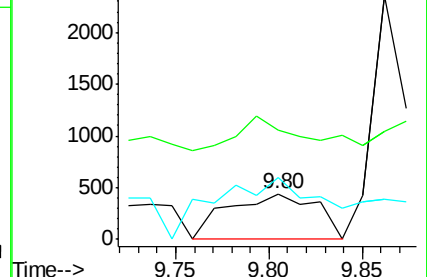
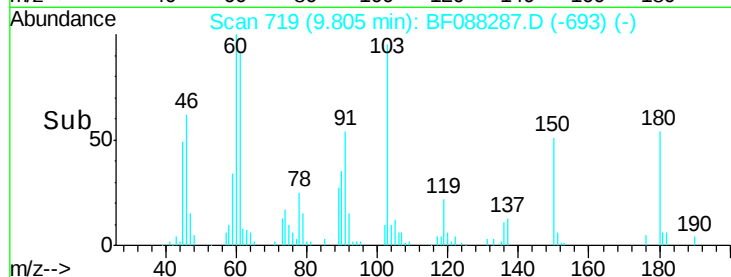
65 134.5 84.9 124.9#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.12 min Scan# 834

Delta R.T. 0.00 min

Lab File: BF088287.D

Acq: 23 Jun 2016 10:50

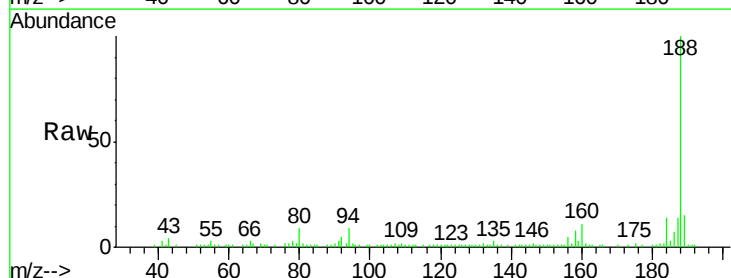
Tgt Ion:188 Resp: 56297

Ion Ratio Lower Upper

188 100

94 8.5 9.0 13.6#

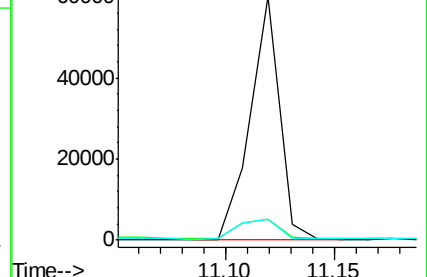
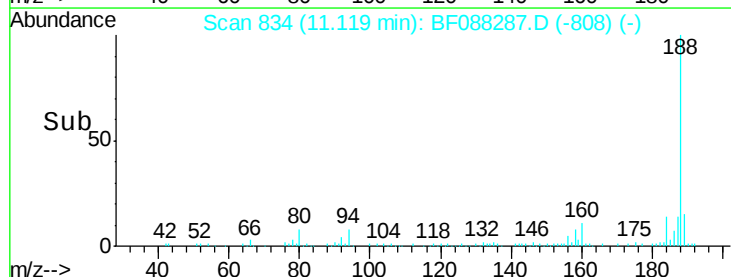
80 8.5 10.0 15.0#

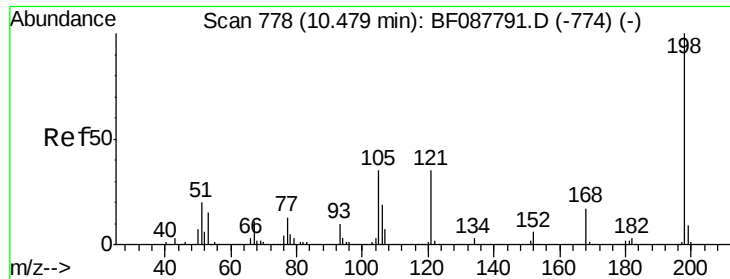


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 239.04 ng

RT: 10.50 min Scan# 780

Delta R.T. 0.24 min

Lab File: BF088287.D

Acq: 23 Jun 2016 10:50

Instrument :

BNA\_F

ClientSampleId :

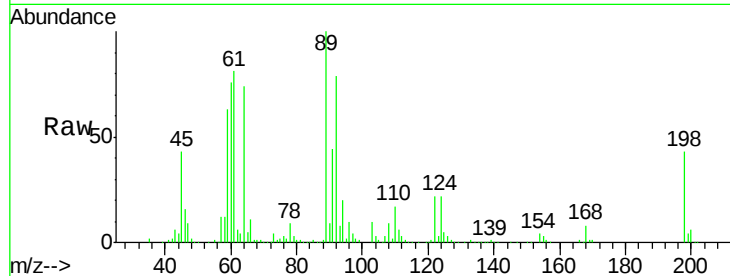
Tot Ion:198 Resp: 87182

Ion Ratio Lower Upper

198 100

51 0.0 39.6 79.6#

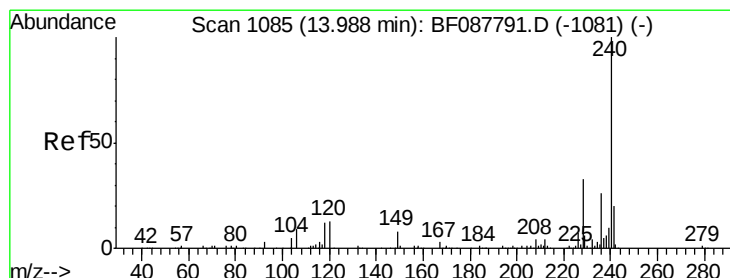
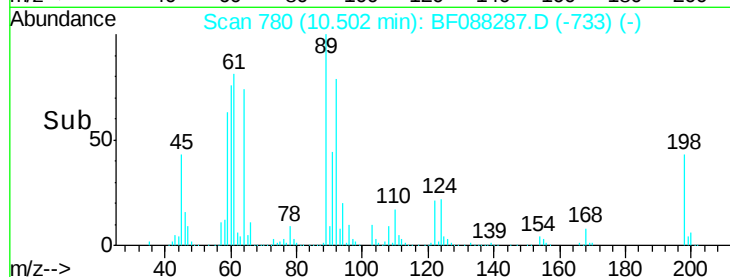
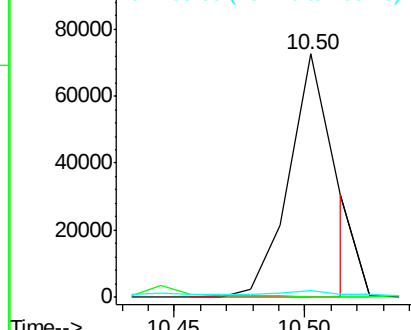
105 2.6 36.6 76.6#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.75 min Scan# 1064

Delta R.T. 0.00 min

Lab File: BF088287.D

Acq: 23 Jun 2016 10:50

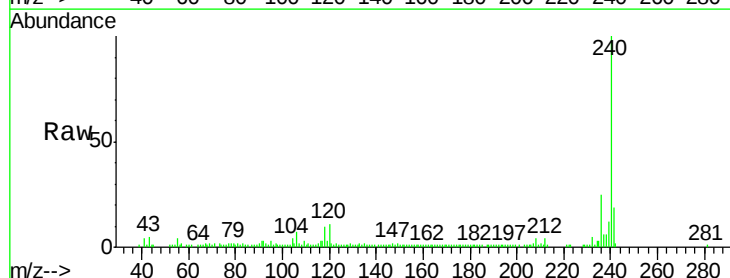
Tgt Ion:240 Resp: 53109

Ion Ratio Lower Upper

240 100

120 11.4 6.8 10.2#

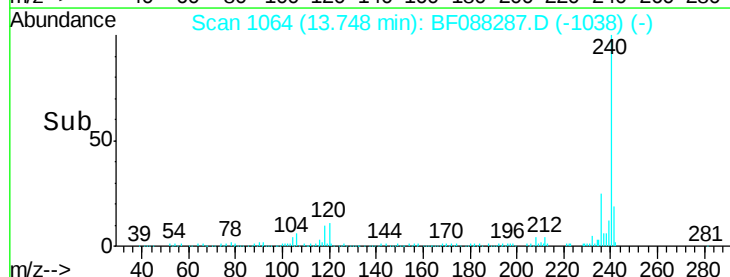
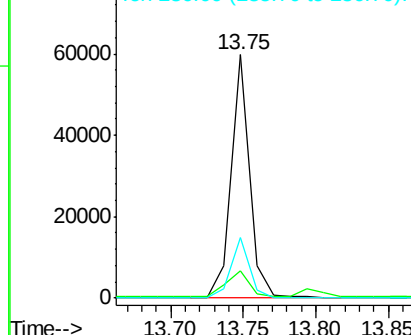
236 24.9 20.2 30.2

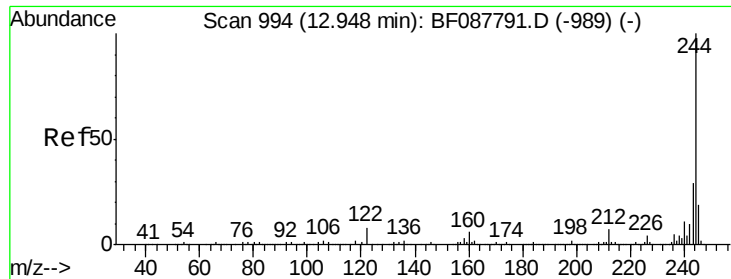


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

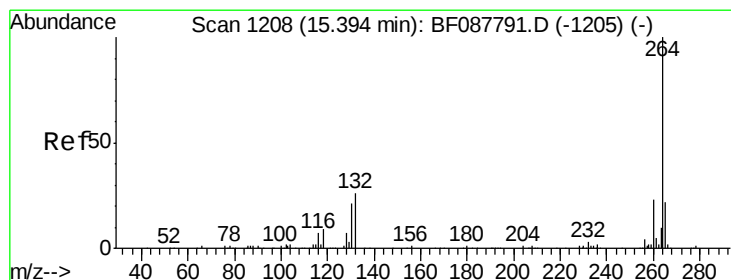
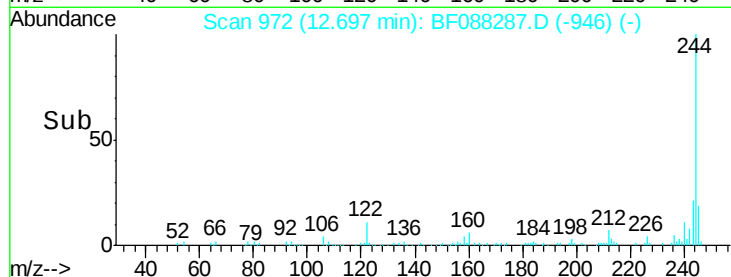
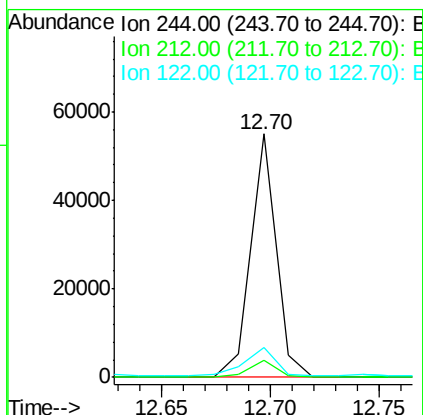
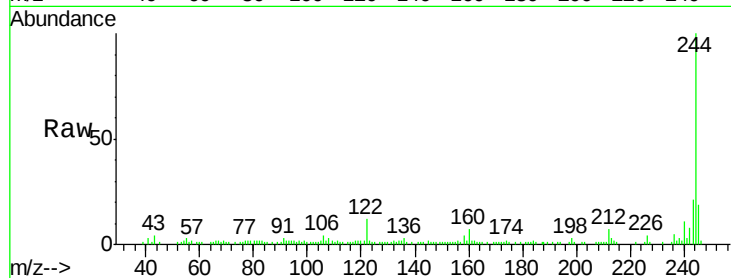




#78  
 Terphenyl-d14  
 Concen: 19.15 ng  
 RT: 12.70 min Scan# 972  
 Delta R.T. 0.00 min  
 Lab File: BF088287.D  
 Acq: 23 Jun 2016 10:50

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 44686  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 6.0 9.0  
 122 12.0 11.2 16.8



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.12 min Scan# 1184  
 Delta R.T. 0.01 min  
 Lab File: BF088287.D  
 Acq: 23 Jun 2016 10:50

Tgt Ion:264 Resp: 38142  
 Ion Ratio Lower Upper  
 264 100  
 260 23.7 19.2 28.8  
 265 22.8 16.9 25.3

