

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF091317\  
 Data File : BF098486.D  
 Acq On : 13 Sep 2017 13:28  
 Operator : SJ/JU  
 Sample : I5157-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 13 18:40:20 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 12 02:14:50 2017  
 Response via : Initial Calibration

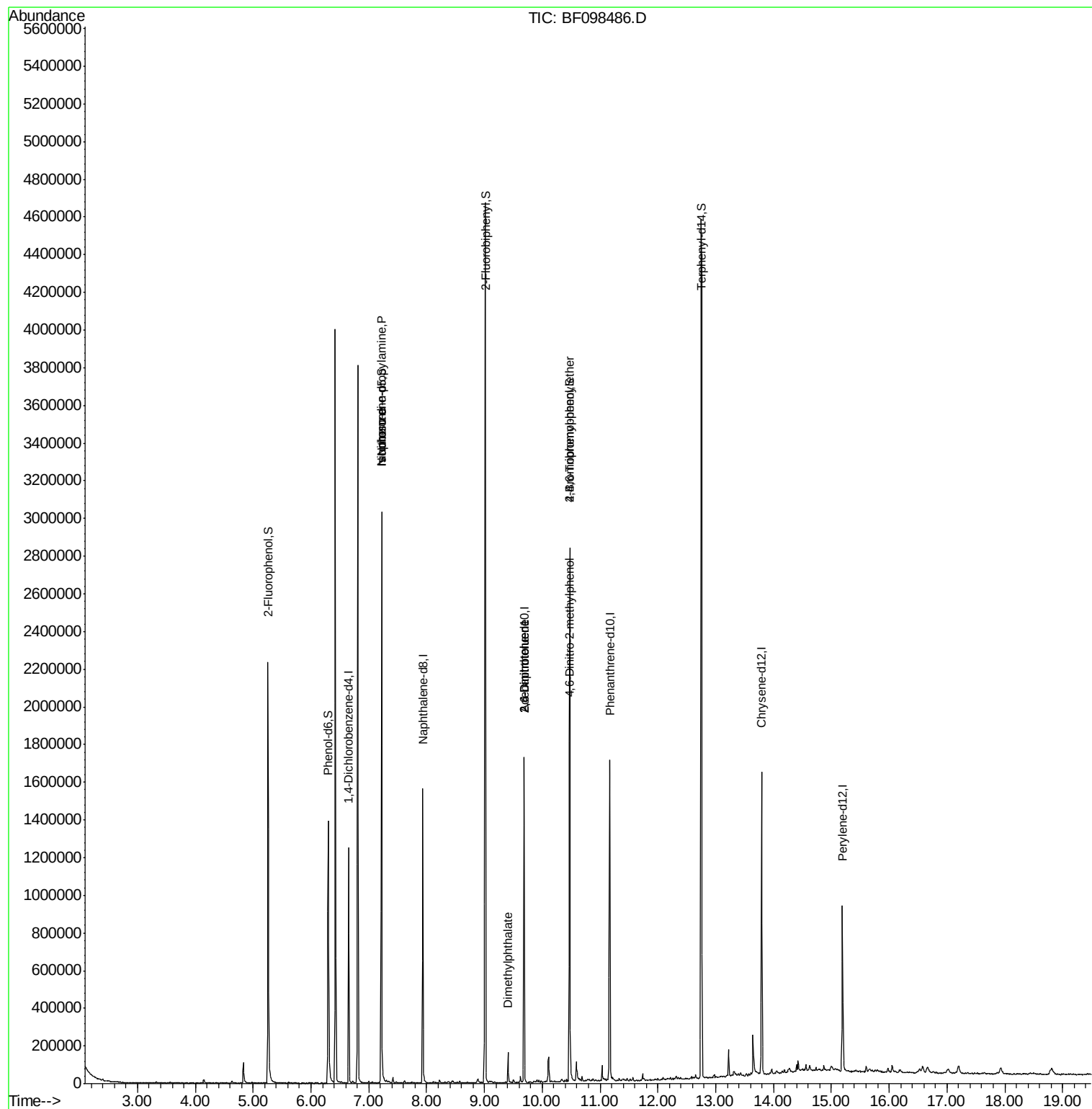
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.65  | 152  | 170427   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 7.93  | 136  | 694209   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.69  | 164  | 313181   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.17 | 188  | 601899   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 13.80 | 240  | 486906   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 15.19 | 264  | 360846   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.26  | 112  | 634932   | 55.08  | ng    | -0.02    |
| 7) Phenol-d6                   | 6.30  | 99   | 481835   | 32.92  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.22  | 82   | 979491   | 78.66  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.47 | 330  | 294833   | 141.05 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.02  | 172  | 1626812  | 88.04  | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.75 | 244  | 1557858  | 69.06  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.22  | 70   | 130536   | 14.180 | ng    | # 79     |
| 25) Isophorone                 | 7.22  | 82   | 968779   | 38.453 | ng    | # 67     |
| 49) Dimethylphthalate          | 9.41  | 163  | 62564    | 2.581  | ng    | # 99     |
| 50) 2,6-Dinitrotoluene         | 9.69  | 165  | 39437    | 7.919  | ng    | # 34     |
| 56) 2,4-Dinitrotoluene         | 9.69  | 165  | 39437    | 6.514  | ng    | # 34     |
| 64) 4,6-Dinitro-2-methylphenol | 10.46 | 198  | 1051     | 5.220  | ng    | # 96     |
| 66) 4-Bromophenyl-phenylether  | 10.47 | 248  | 22277    | 3.900  | ng    | # 1      |

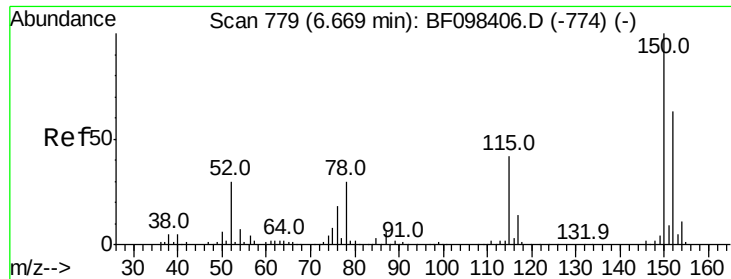
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 13 18:40:20 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M  
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QLast Update : Tue Sep 12 02:14:50 2017  
Response via : Initial Calibration



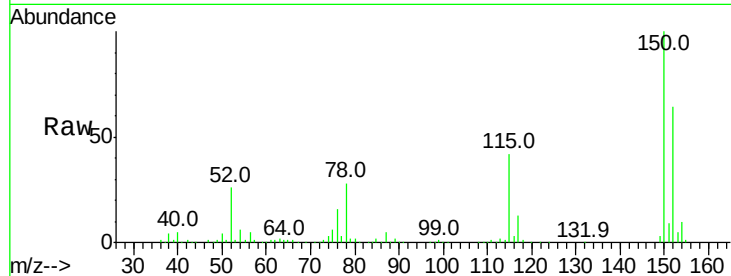


#1

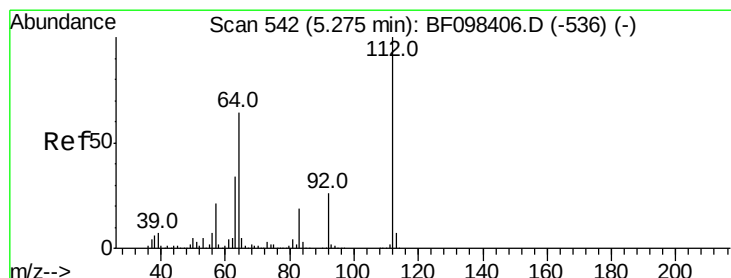
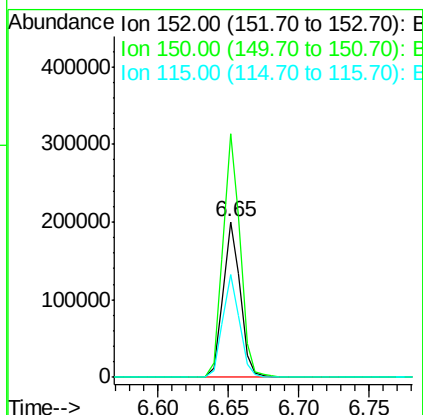
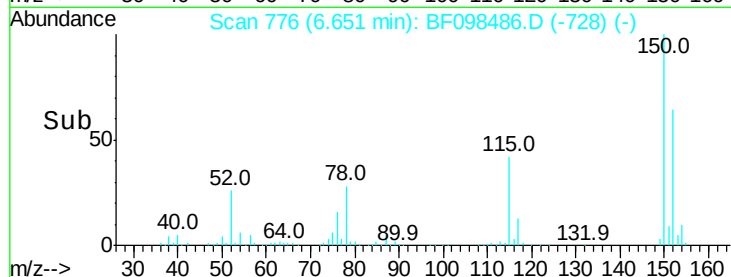
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.65 min Scan# 776  
Delta R.T. -0.02 min  
Lab File: BF098486.D  
Acq: 13 Sep 2017 13:28

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 170427  
Ion Ratio Lower Upper  
152 100  
150 156.2 126.2 189.2  
115 65.6 52.2 78.2



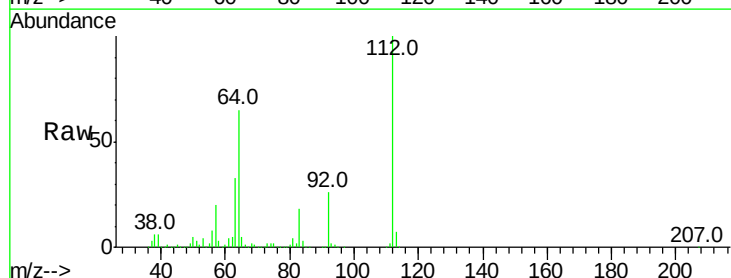
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



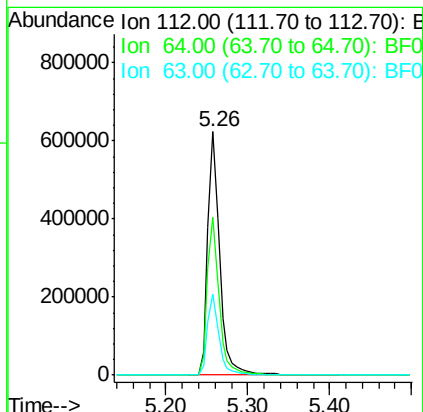
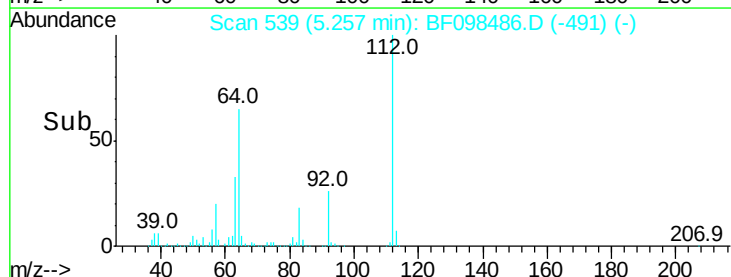
#5

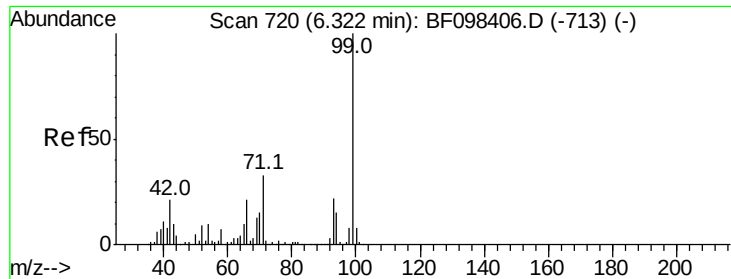
2-Fluorophenol  
Concen: 55.083 ng  
RT: 5.26 min Scan# 539  
Delta R.T. -0.02 min  
Lab File: BF098486.D  
Acq: 13 Sep 2017 13:28

Tgt Ion:112 Resp: 634932  
Ion Ratio Lower Upper  
112 100  
64 64.8 46.0 69.0  
63 33.2 23.4 35.0



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: 32.923 ng

RT: 6.30 min Scan# 716

Delta R.T. -0.02 min

Lab File: BF098486.D

Acq: 13 Sep 2017 13:28

Instrument :

BNA\_F

ClientSampleId :

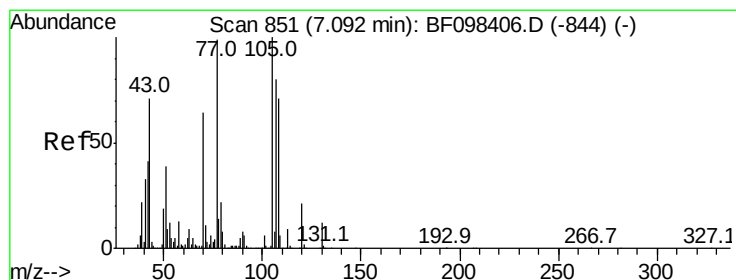
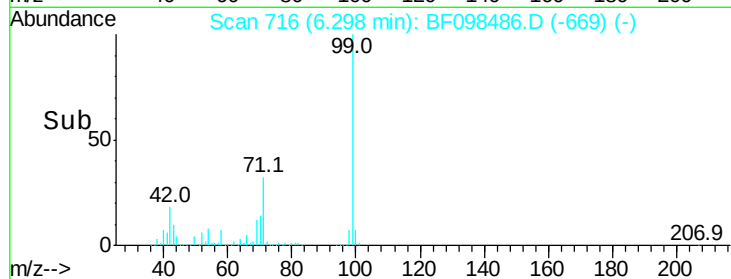
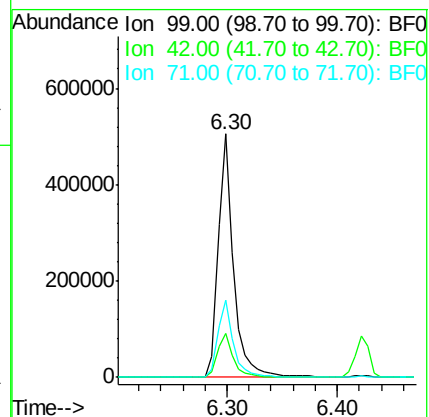
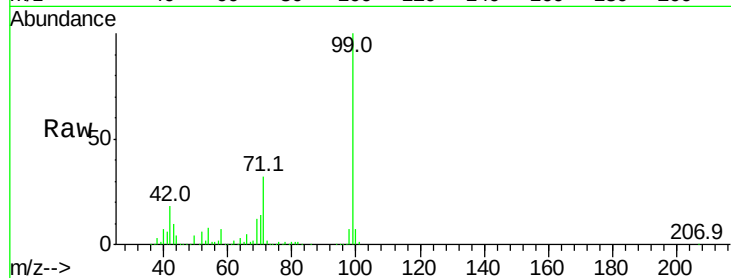
Tot Ion: 99 Resp: 481835

Ion Ratio Lower Upper

99 100

42 18.1 13.5 20.3

71 31.8 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 14.180 ng

RT: 7.22 min Scan# 873

Delta R.T. 0.13 min

Lab File: BF098486.D

Acq: 13 Sep 2017 13:28

Tgt Ion: 70 Resp: 130536

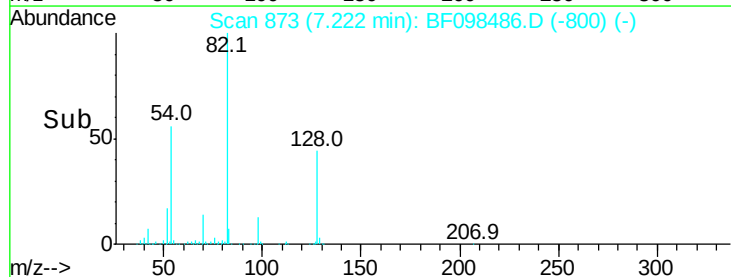
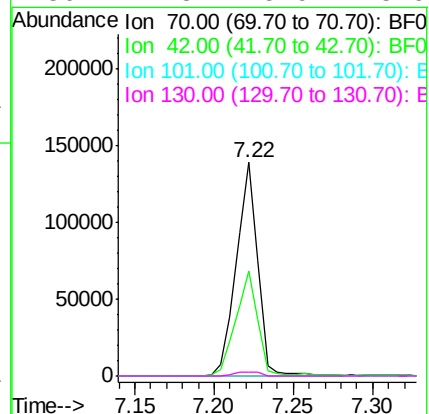
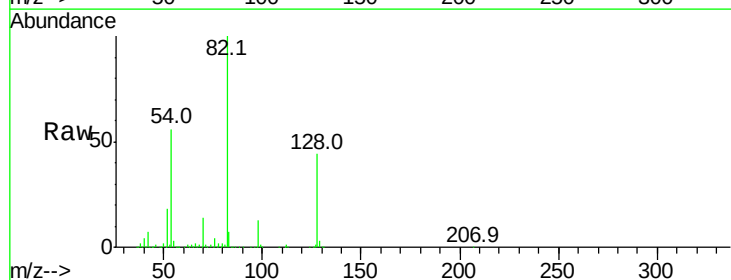
Ion Ratio Lower Upper

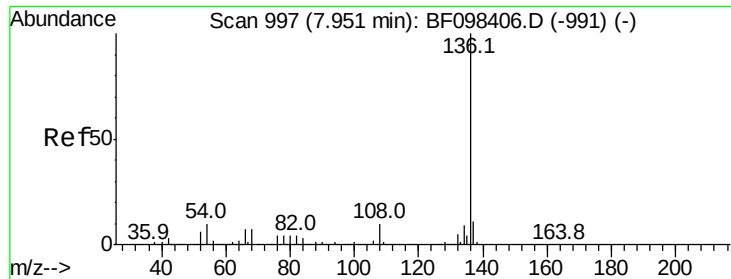
70 100

42 48.9 47.2 70.8

101 0.0 7.2 10.8#

130 1.8 15.9 23.9#

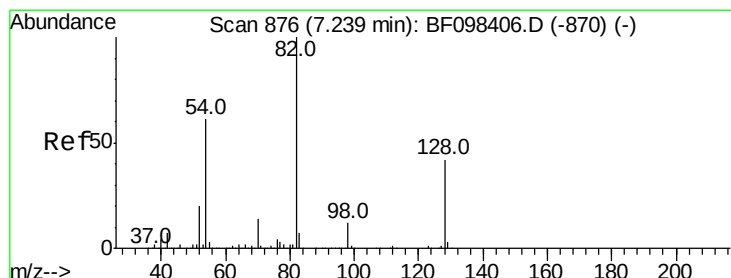
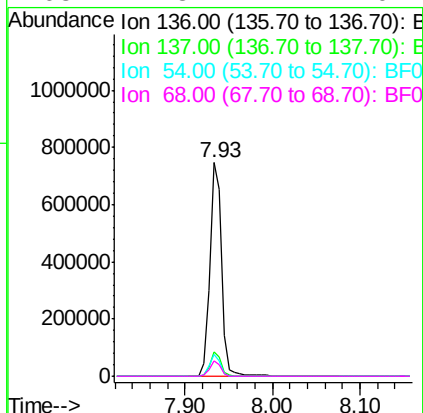
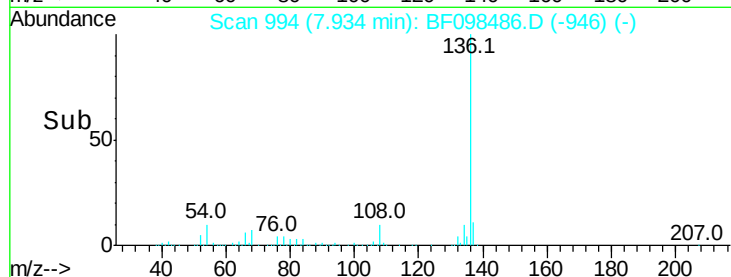
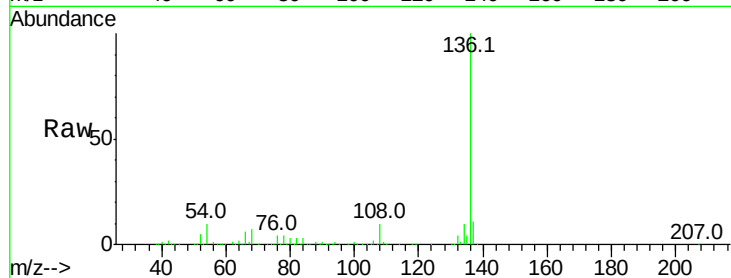




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.93 min Scan# 994  
Delta R.T. -0.02 min  
Lab File: BF098486.D  
Acq: 13 Sep 2017 13:28

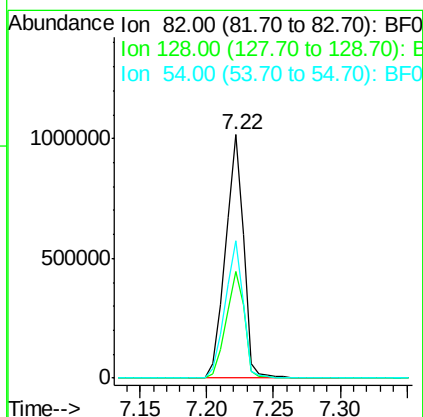
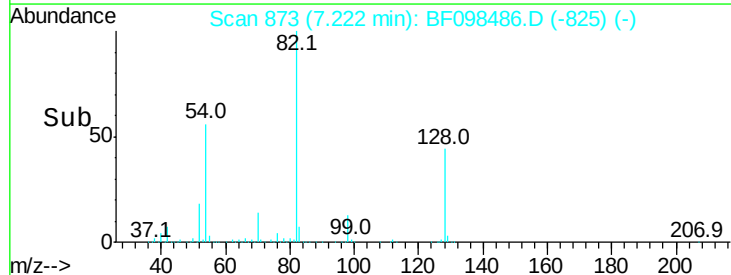
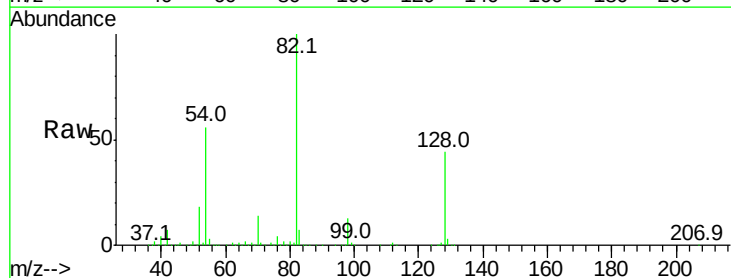
Instrument :  
BNA\_F  
ClientSampled :

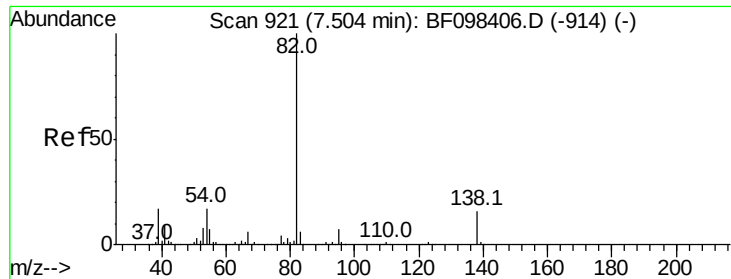
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 694209   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.4  | 8.5 12.7 |
| 54          | 10.3  | 4.9 7.3# |
| 68          | 7.3   | 4.1 6.1# |



#23  
Nitrobenzene-d5  
Concen: 78.660 ng  
RT: 7.22 min Scan# 873  
Delta R.T. -0.02 min  
Lab File: BF098486.D  
Acq: 13 Sep 2017 13:28

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 979491    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 44.0  | 34.0 51.0 |
| 54          | 56.4  | 42.2 63.2 |





#25

Isophorone

Concen: 38.453 ng

RT: 7.22 min Scan# 873

Delta R.T. -0.28 min

Lab File: BF098486.D

Acq: 13 Sep 2017 13:28

Instrument :

BNA\_F

ClientSampleId :

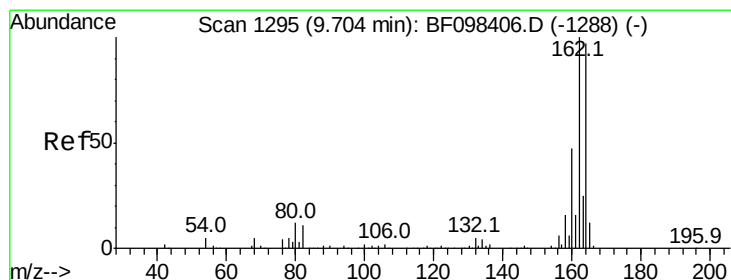
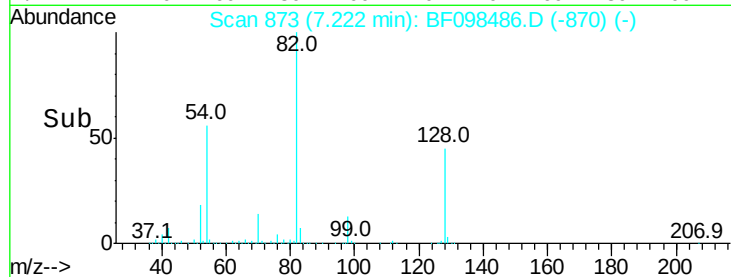
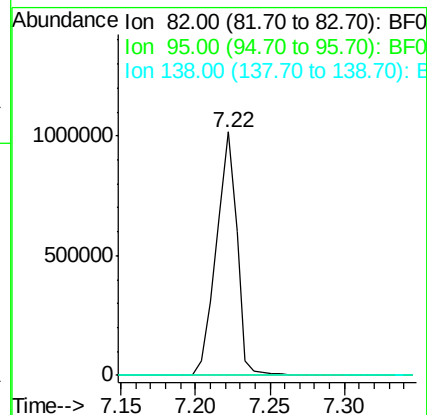
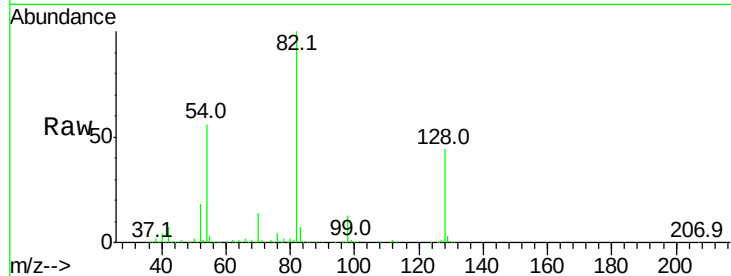
Tot Ion: 82 Resp: 968779

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.69 min Scan# 1292

Delta R.T. -0.02 min

Lab File: BF098486.D

Acq: 13 Sep 2017 13:28

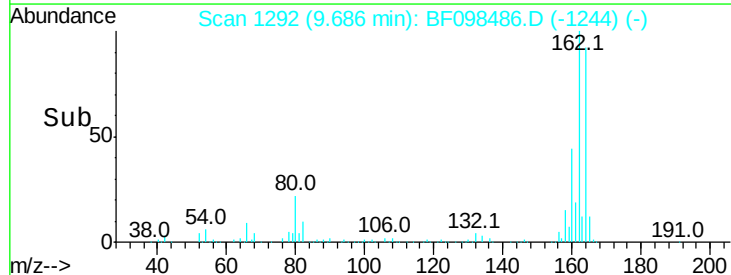
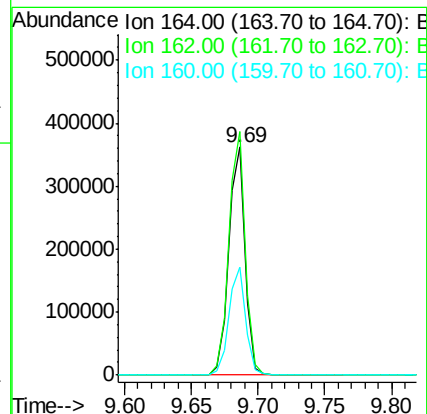
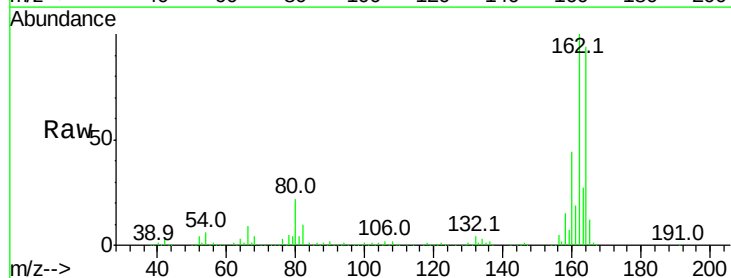
Tgt Ion:164 Resp: 313181

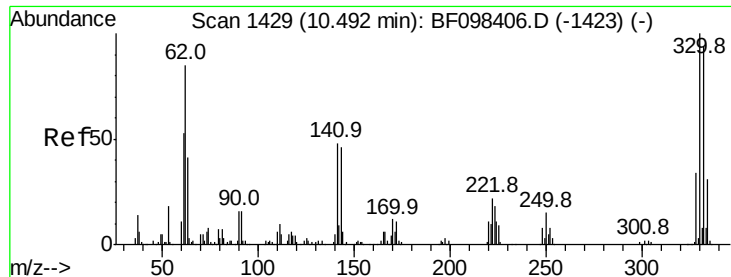
Ion Ratio Lower Upper

164 100

162 106.9 82.6 123.8

160 47.4 36.2 54.2

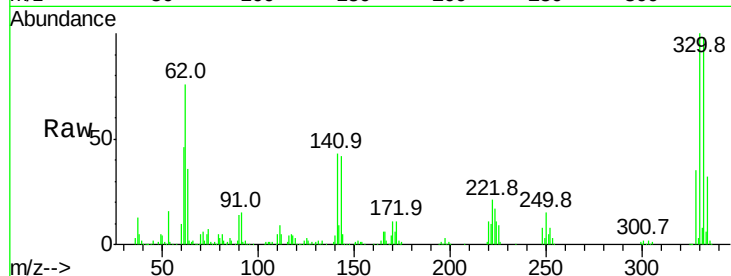




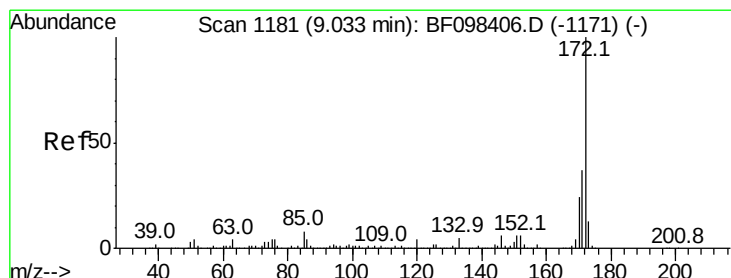
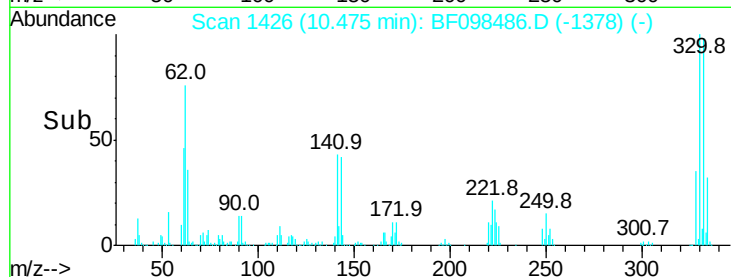
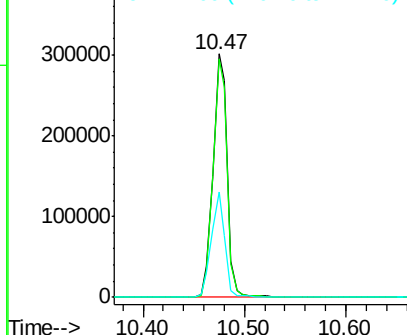
#41  
 2,4,6-Tribromophenol  
 Concen: 141.053 ng  
 RT: 10.47 min Scan# 1426  
 Delta R.T. -0.02 min  
 Lab File: BF098486.D  
 Acq: 13 Sep 2017 13:28

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 294833  
 Ion Ratio Lower Upper  
 330 100  
 332 97.1 76.6 115.0  
 141 41.6 31.4 47.2

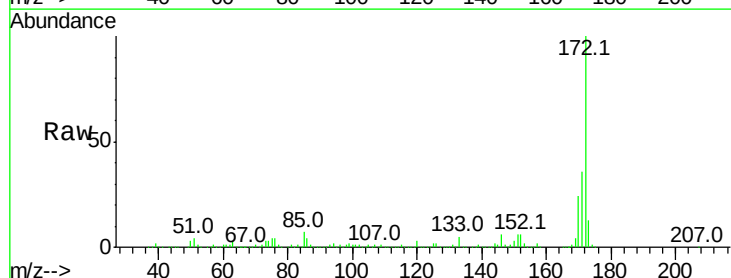


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

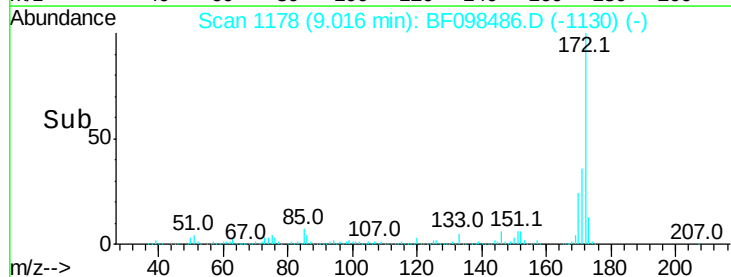
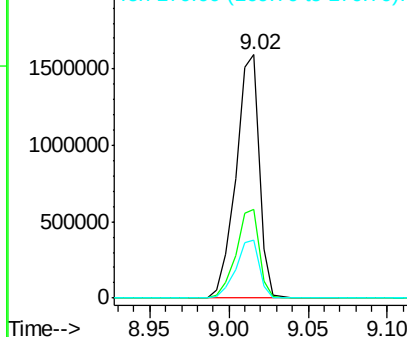


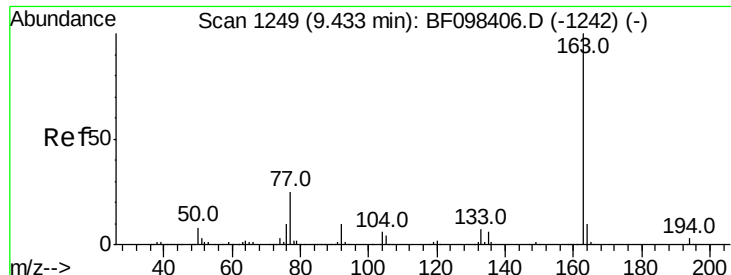
#44  
 2-Fluorobiphenyl  
 Concen: 88.042 ng  
 RT: 9.02 min Scan# 1178  
 Delta R.T. -0.02 min  
 Lab File: BF098486.D  
 Acq: 13 Sep 2017 13:28

Tgt Ion:172 Resp: 1626812  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.6 44.4  
 170 23.9 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





#49

Dimethylphthalate

Concen: 2.581 ng

RT: 9.41 min Scan# 1245

Delta R.T. -0.02 min

Lab File: BF098486.D

Acq: 13 Sep 2017 13:28

Instrument :

BNA\_F

ClientSampled :

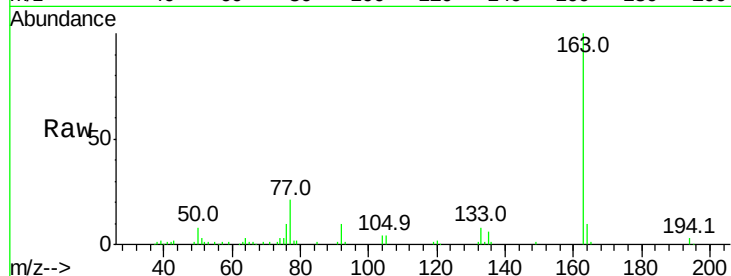
Tot Ion:163 Resp: 62564

Ion Ratio Lower Upper

163 100

194 3.3 2.6 4.0

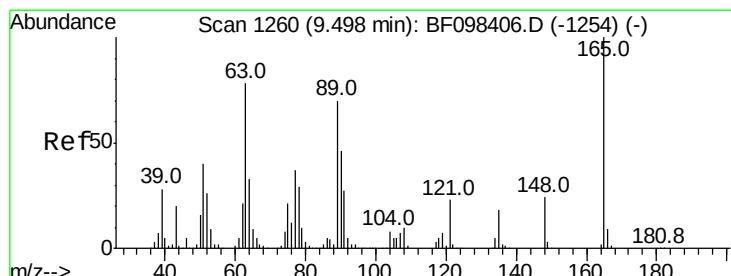
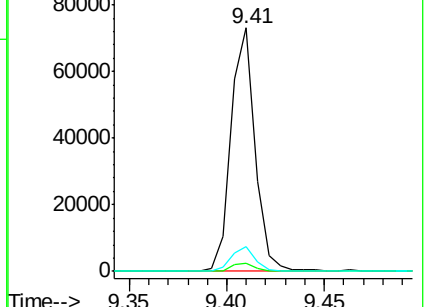
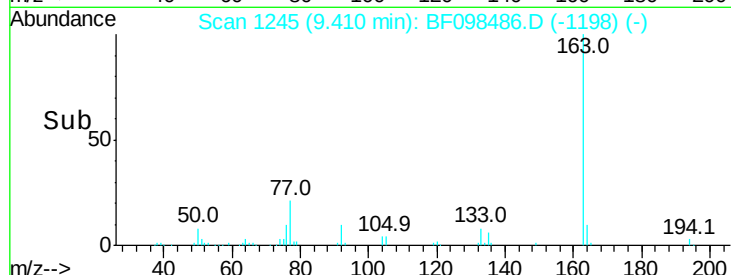
164 10.0 8.4 12.6



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: 7.919 ng

RT: 9.69 min Scan# 1292

Delta R.T. 0.19 min

Lab File: BF098486.D

Acq: 13 Sep 2017 13:28

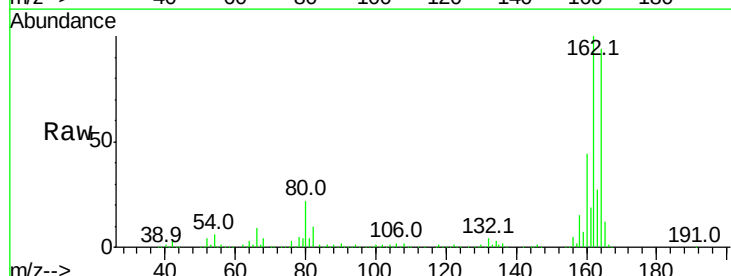
Tgt Ion:165 Resp: 39437

Ion Ratio Lower Upper

165 100

63 2.1 34.3 51.5#

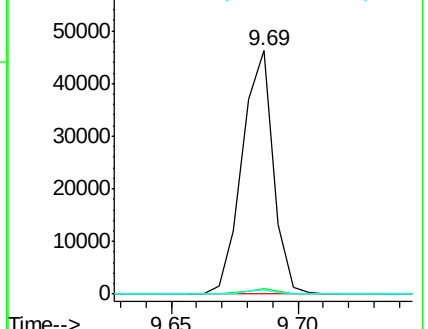
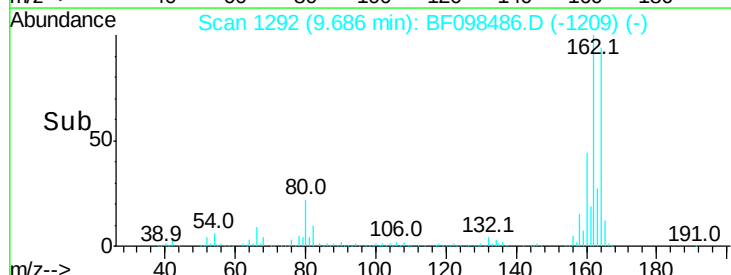
89 1.8 37.1 55.7#



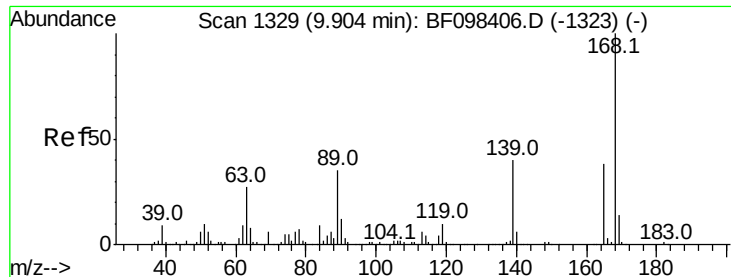
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



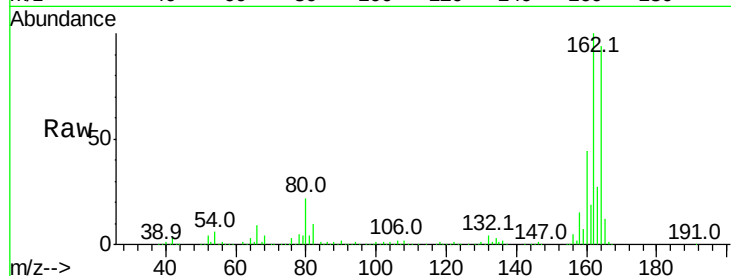




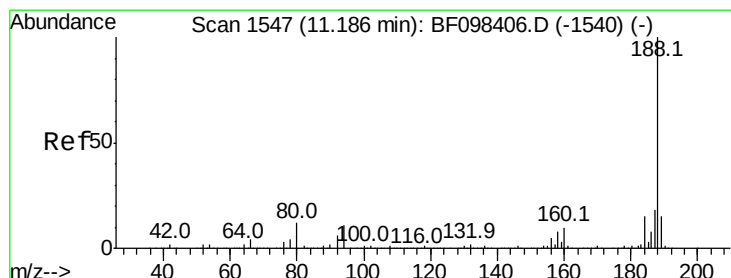
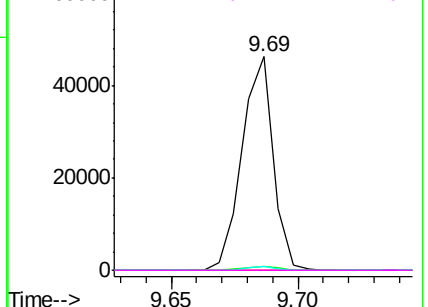
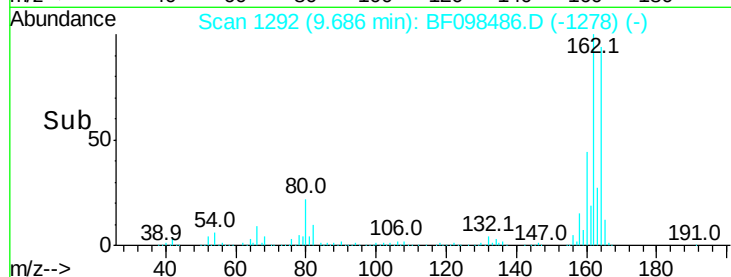
#56  
 2,4-Dinitrotoluene  
 Concen: 6.514 ng  
 RT: 9.69 min Scan# 1292  
 Delta R.T. -0.22 min  
 Lab File: BF098486.D  
 Acq: 13 Sep 2017 13:28

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 39437  
 Ion Ratio Lower Upper  
 165 100  
 63 2.1 25.4 38.0#  
 89 1.8 46.4 69.6#  
 182 0.0 1.8 2.6#

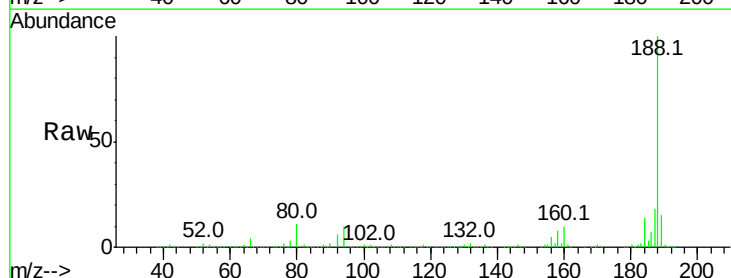


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

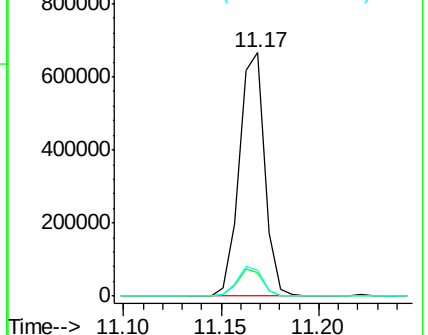
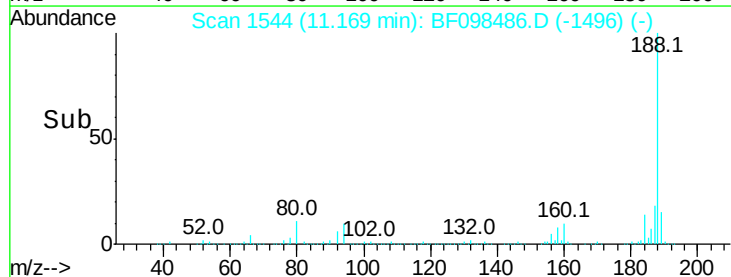


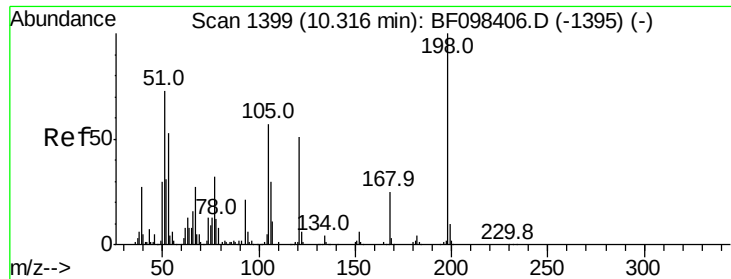
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.17 min Scan# 1544  
 Delta R.T. -0.02 min  
 Lab File: BF098486.D  
 Acq: 13 Sep 2017 13:28

Tgt Ion:188 Resp: 601899  
 Ion Ratio Lower Upper  
 188 100  
 94 9.7 9.4 14.2  
 80 10.9 10.2 15.2



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: 5.220 ng

RT: 10.46 min Scan# 1424

Delta R.T. 0.15 min

Lab File: BF098486.D

Acq: 13 Sep 2017 13:28

Instrument :

BNA\_F

ClientSampled :

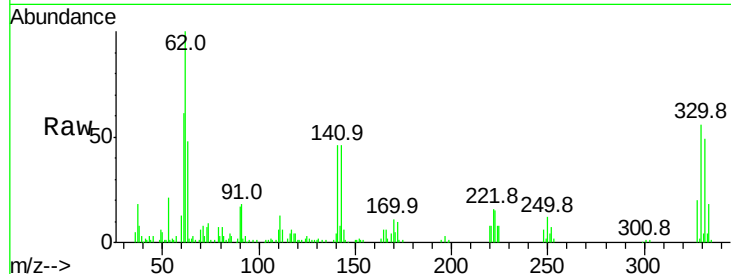
Tot Ion:198 Resp: 1051

Ion Ratio Lower Upper

198 100

51 78.7 53.2 93.2

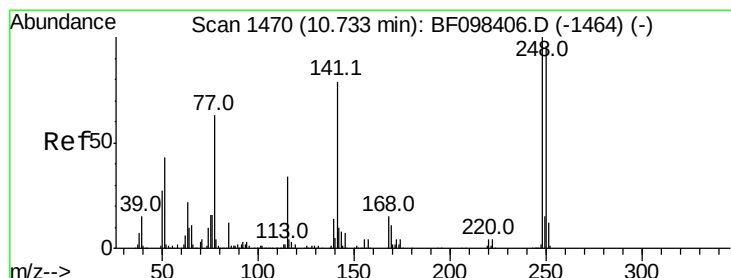
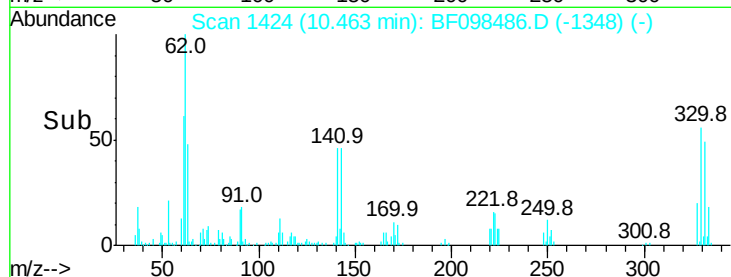
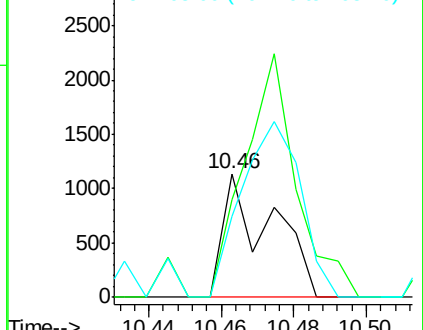
105 65.2 45.8 85.8



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



#66

4-Bromophenyl-phenylether

Concen: 3.900 ng

RT: 10.47 min Scan# 1426

Delta R.T. -0.26 min

Lab File: BF098486.D

Acq: 13 Sep 2017 13:28

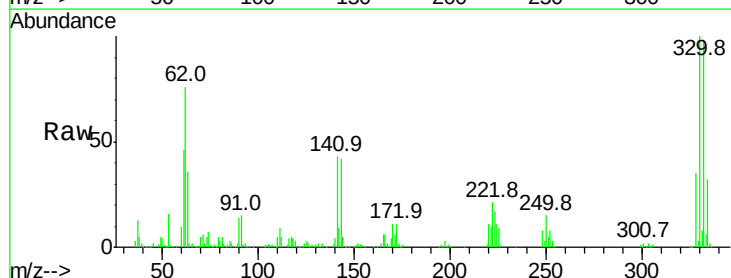
Tgt Ion:248 Resp: 22277

Ion Ratio Lower Upper

248 100

250 183.9 76.8 115.2#

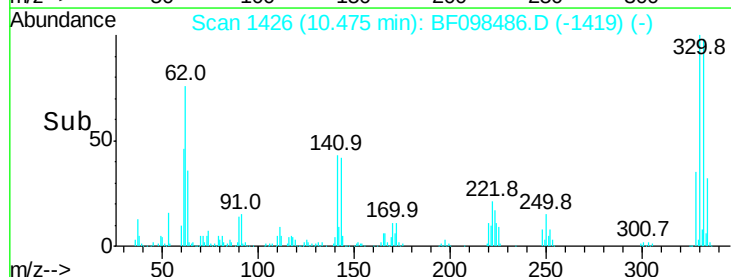
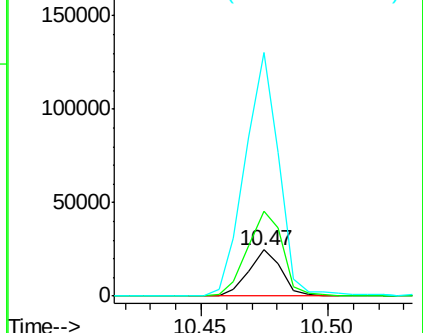
141 527.4 68.6 103.0#

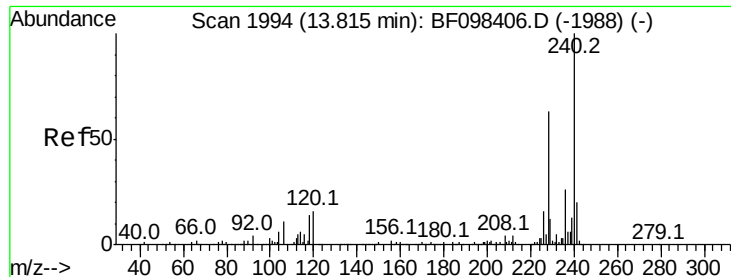


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.80 min Scan# 1991

Delta R.T. -0.02 min

Lab File: BF098486.D

Acq: 13 Sep 2017 13:28

Instrument :

BNA\_F

ClientSampleId :

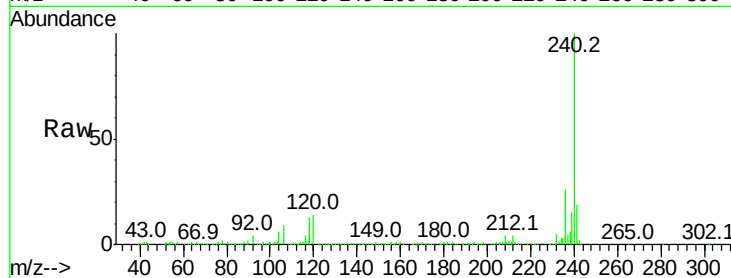
Tot Ion:240 Resp: 486906

Ion Ratio Lower Upper

240 100

120 13.7 5.8 8.8#

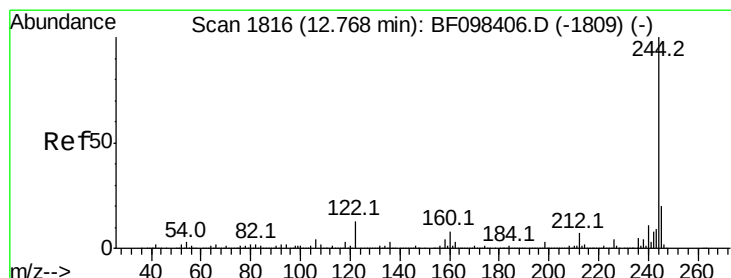
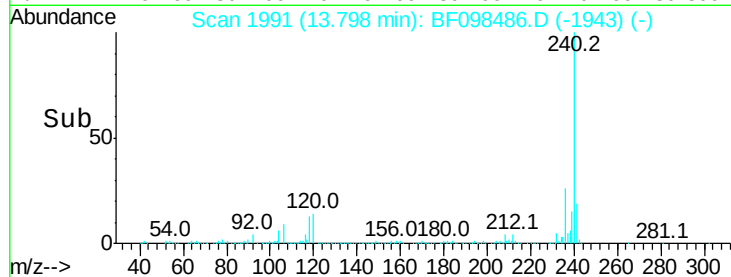
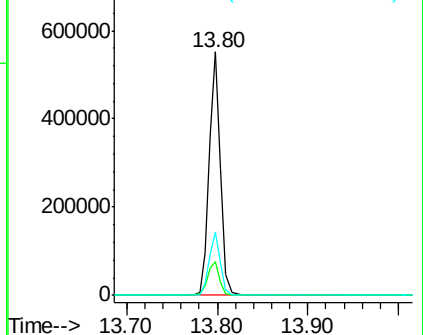
236 26.1 20.5 30.7



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: 69.060 ng

RT: 12.75 min Scan# 1813

Delta R.T. -0.02 min

Lab File: BF098486.D

Acq: 13 Sep 2017 13:28

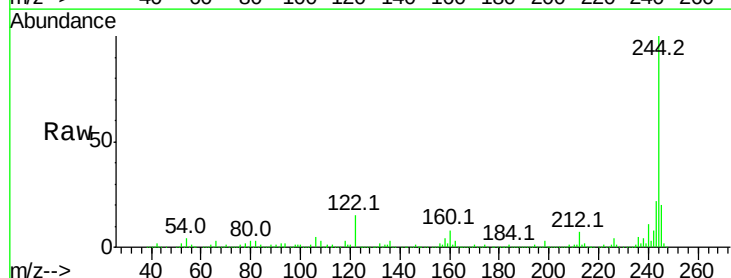
Tgt Ion:244 Resp: 1557858

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

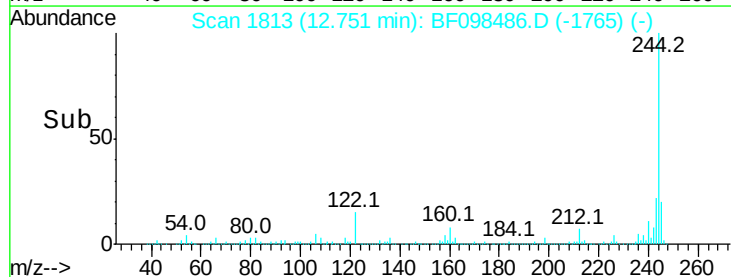
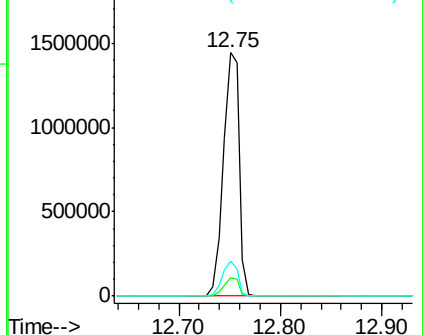
122 14.6 10.3 15.5

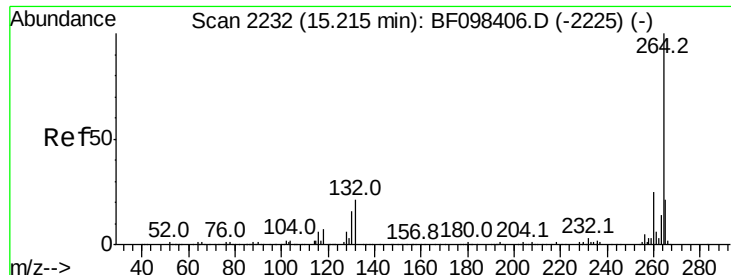


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

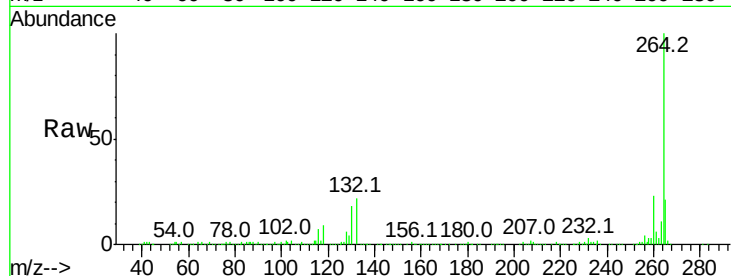




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.19 min Scan# 2228  
Delta R.T. -0.02 min  
Lab File: BF098486.D  
Acq: 13 Sep 2017 13:28

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.5  | 29.3  |
| 265     | 20.7  | 17.2  | 25.8  |



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

