

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081817\  
 Data File : BF097843.D  
 Acq On : 18 Aug 2017 20:06  
 Operator : SJ/JU  
 Sample : I4811-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EP-12

Quant Time: Aug 19 00:13:17 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 15 13:25:08 2017  
 Response via : Initial Calibration

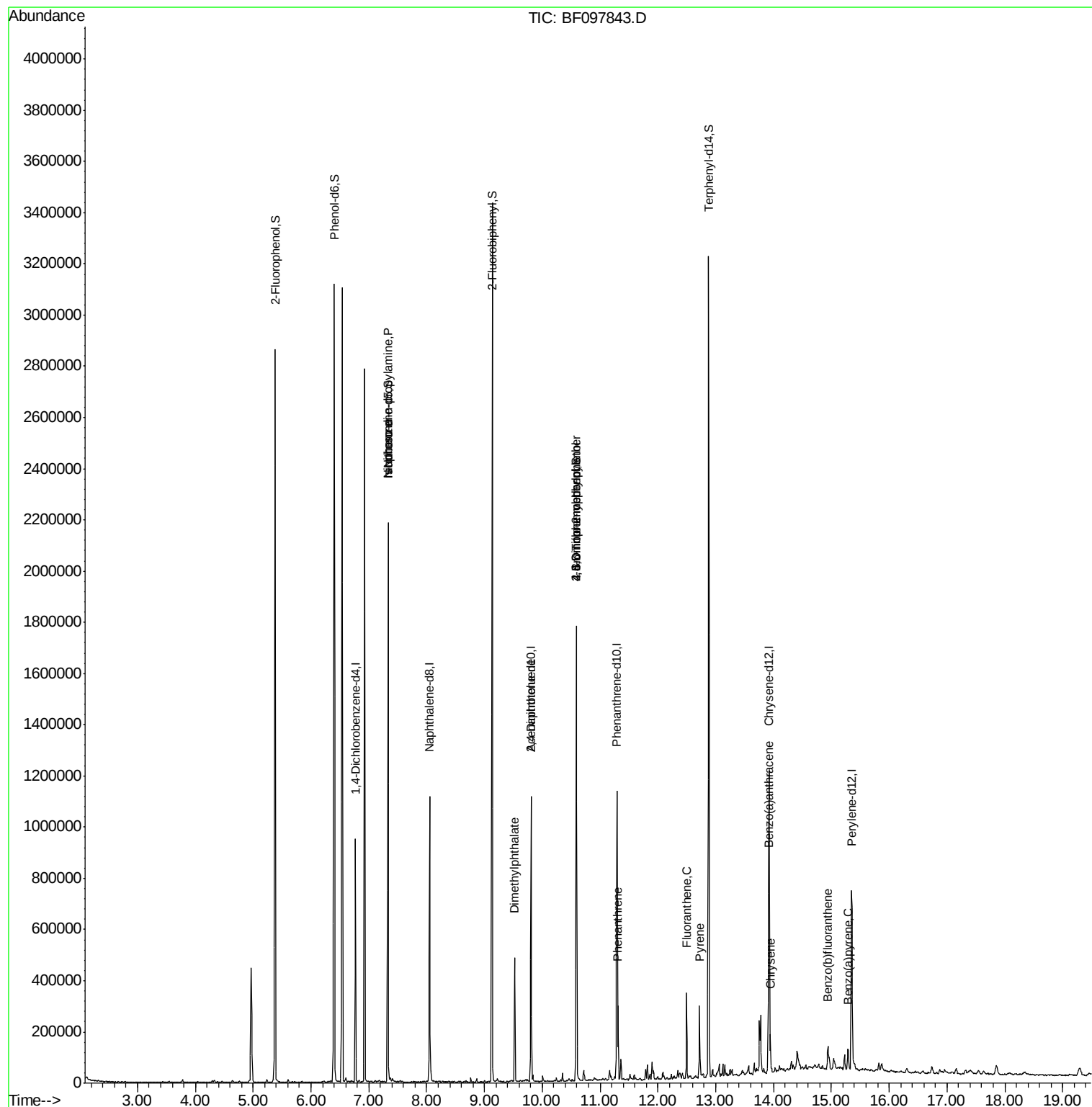
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.77  | 152  | 117730   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.05  | 136  | 468712   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.80  | 164  | 208643   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.29 | 188  | 414686   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 13.92 | 240  | 373592   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 15.35 | 264  | 305836   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.38  | 112  | 829997   | 107.24 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.40  | 99   | 1232101  | 117.16 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.33  | 82   | 775123   | 89.84  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.59 | 330  | 185210   | 102.31 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.13  | 172  | 1086843  | 76.53  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.88 | 244  | 996641   | 55.63  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.33  | 70   | 106580   | 14.80  | ng    | # 74     |
| 25) Isophorone                 | 7.33  | 82   | 775109   | 43.20  | ng    | # 67     |
| 49) Dimethylphthalate          | 9.52  | 163  | 174415   | 11.44  | ng    | 100      |
| 56) 2,4-Dinitrotoluene         | 9.80  | 165  | 26744    | 7.00   | ng    | # 34     |
| 64) 4,6-Dinitro-2-methylphenol | 10.59 | 198  | 481      | 8.52   | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.59 | 248  | 12650    | 2.94   | ng    | # 1      |
| 70) Phenanthrene               | 11.31 | 178  | 93465    | 4.23   | ng    | 99       |
| 74) Fluoranthene               | 12.50 | 202  | 114634   | 4.97   | ng    | 98       |
| 77) Pyrene                     | 12.73 | 202  | 114770   | 3.76   | ng    | 97       |
| 80) Benzo(a)anthracene         | 13.91 | 228  | 52451    | 2.34   | ng    | 99       |
| 82) Chrysene                   | 13.94 | 228  | 50000    | 2.24   | ng    | 98       |
| 87) Benzo(b)fluoranthene       | 14.94 | 252  | 63597    | 3.30   | ng    | 99       |
| 89) Benzo(a)pyrene             | 15.29 | 252  | 37048    | 2.17   | ng    | 98       |

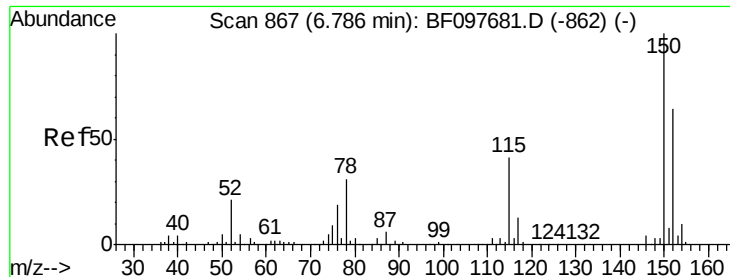
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081817\  
Data File : BF097843.D  
Acq On : 18 Aug 2017 20:06  
Operator : SJ/JU  
Sample : I4811-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EP-12

Quant Time: Aug 19 00:13:17 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 15 13:25:08 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.77 min Scan# 796

Delta R.T. -0.02 min

Lab File: BF097843.D

Acq: 18 Aug 2017 20:06

Instrument :

BNA\_F

ClientSampleId :

EP-12

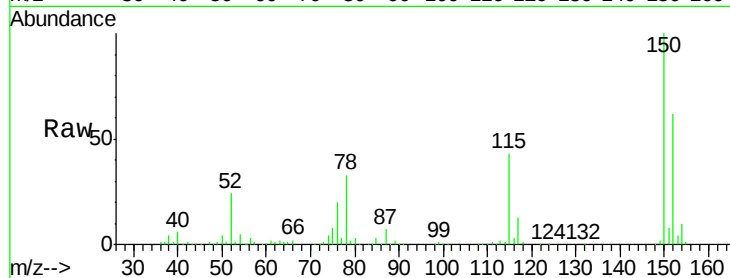
Tot Ion:152 Resp: 117730

Ion Ratio Lower Upper

152 100

150 160.4 126.2 189.2

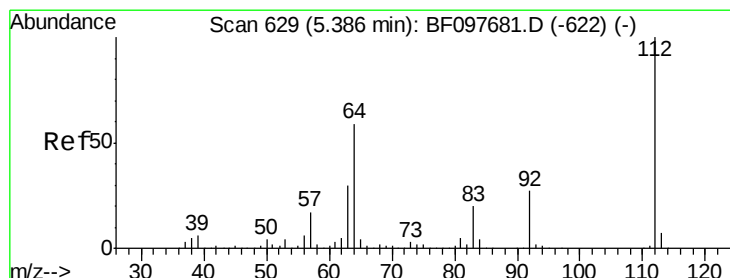
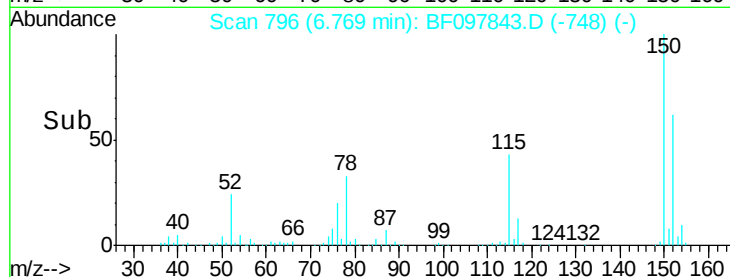
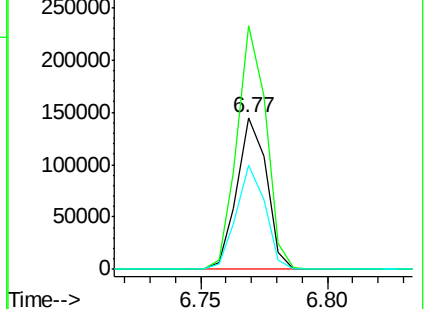
115 68.5 52.2 78.2



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: 107.24 ng

RT: 5.38 min Scan# 560

Delta R.T. -0.01 min

Lab File: BF097843.D

Acq: 18 Aug 2017 20:06

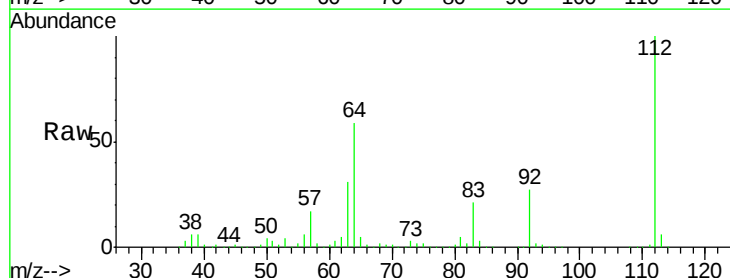
Tgt Ion:112 Resp: 829997

Ion Ratio Lower Upper

112 100

64 58.7 46.0 69.0

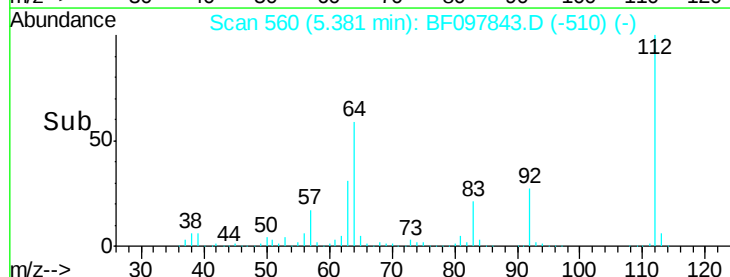
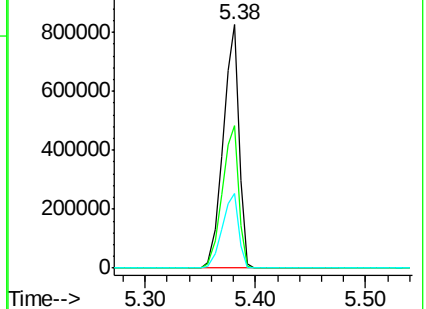
63 30.5 23.4 35.0

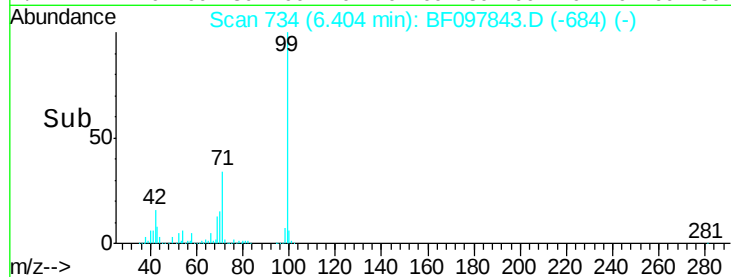
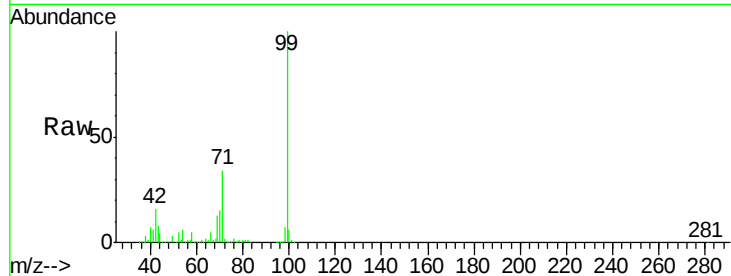
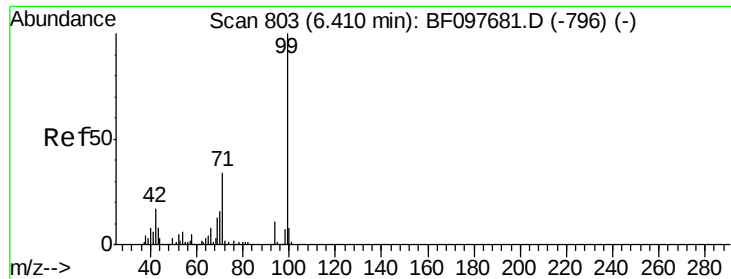


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 117.16 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF097843.D

Acq: 18 Aug 2017 20:06

Instrument :

BNA\_F

ClientSampleId :

EP-12

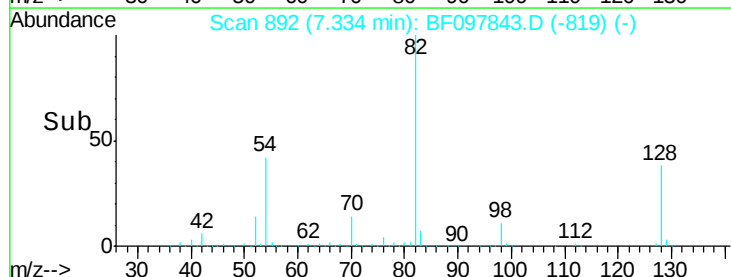
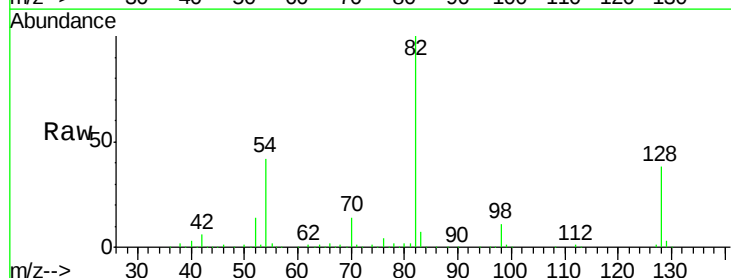
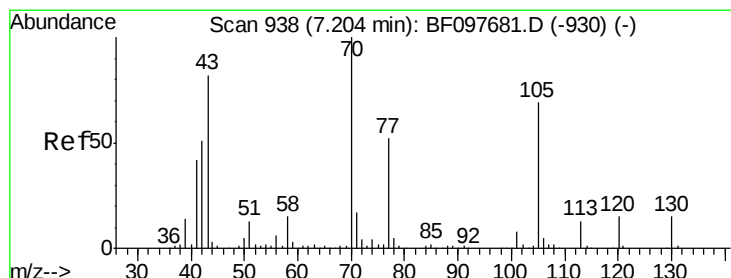
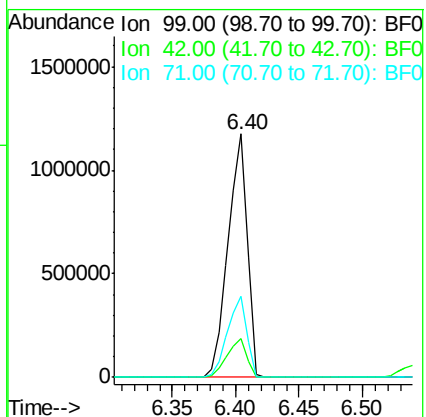
Tot Ion: 99 Resp: 1232101

Ion Ratio Lower Upper

99 100

42 15.7 13.5 20.3

71 33.5 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 14.80 ng

RT: 7.33 min Scan# 892

Delta R.T. 0.13 min

Lab File: BF097843.D

Acq: 18 Aug 2017 20:06

Tgt Ion: 70 Resp: 106580

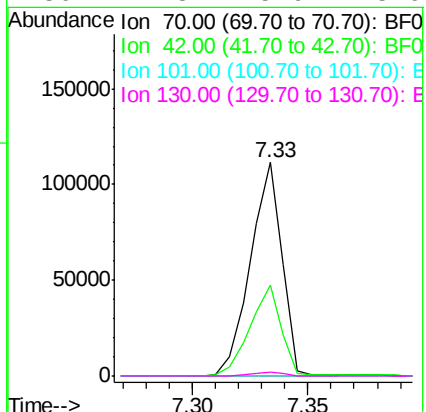
Ion Ratio Lower Upper

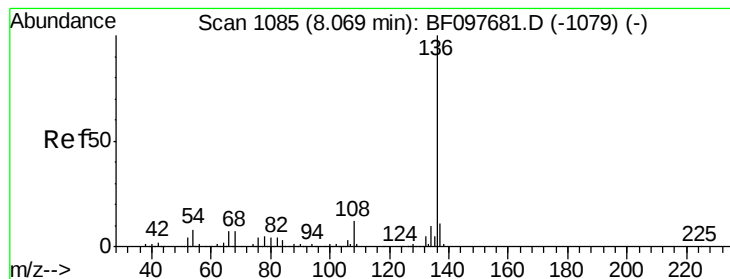
70 100

42 42.3 47.2 70.8#

101 0.0 7.2 10.8#

130 1.8 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.05 min Scan# 1014

Delta R.T. -0.02 min

Lab File: BF097843.D

Acq: 18 Aug 2017 20:06

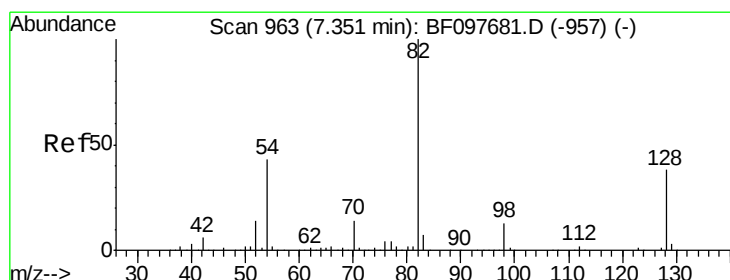
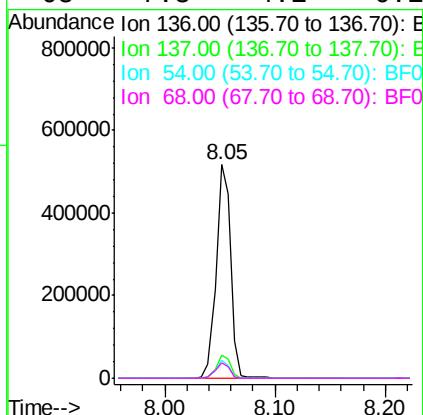
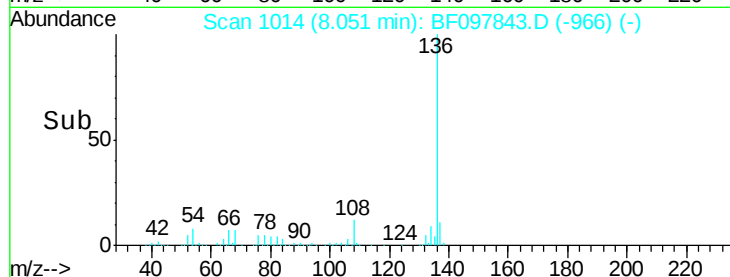
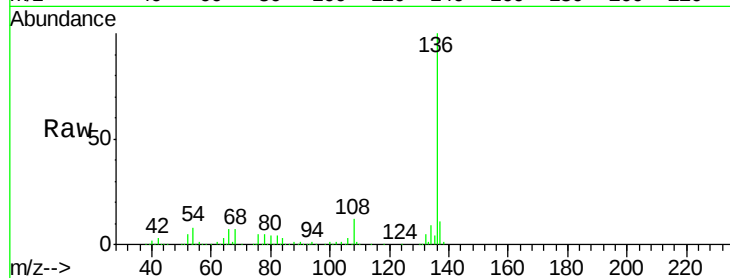
Instrument :

BNA\_F

ClientSampleId :

EP-12

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 468712   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.0  | 8.5 12.7 |
| 54          | 8.2   | 4.9 7.3# |
| 68          | 7.3   | 4.1 6.1# |



#23

Nitrobenzene-d5

Concen: 89.84 ng

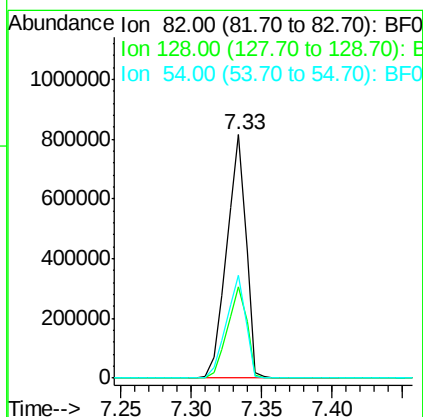
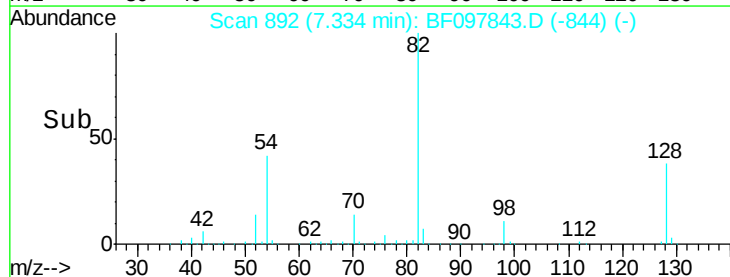
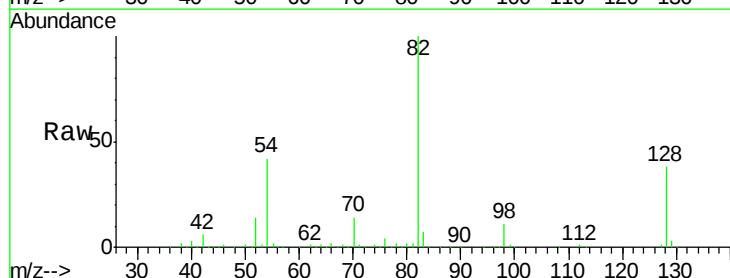
RT: 7.33 min Scan# 892

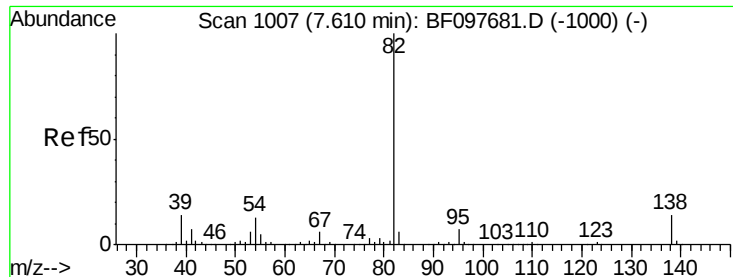
Delta R.T. -0.02 min

Lab File: BF097843.D

Acq: 18 Aug 2017 20:06

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 775123     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 37.5  | 34.0 51.0  |
| 54          | 42.1  | 42.2 63.2# |

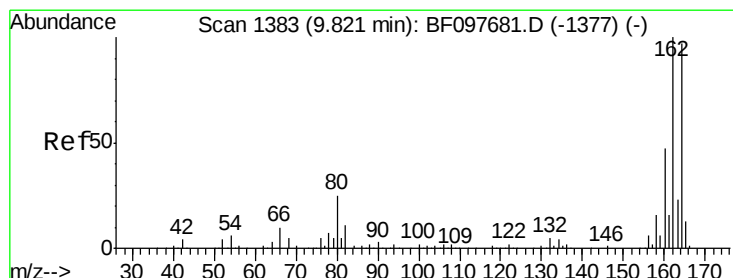
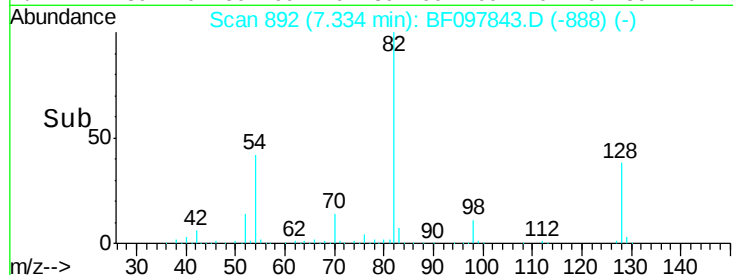
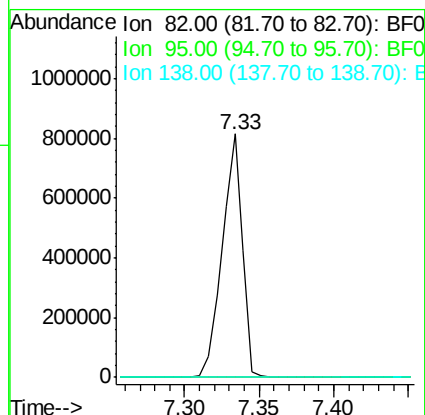
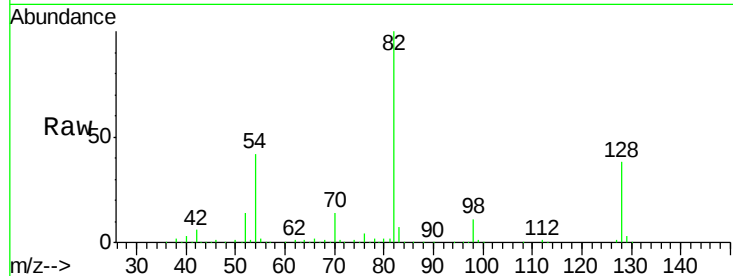




#25  
Isophorone  
Concen: 43.20 ng  
RT: 7.33 min Scan# 892  
Delta R.T. -0.28 min  
Lab File: BF097843.D  
Acq: 18 Aug 2017 20:06

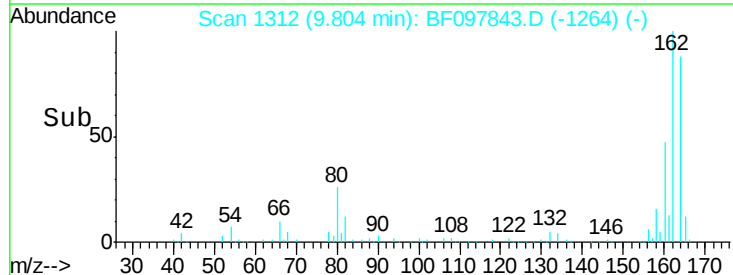
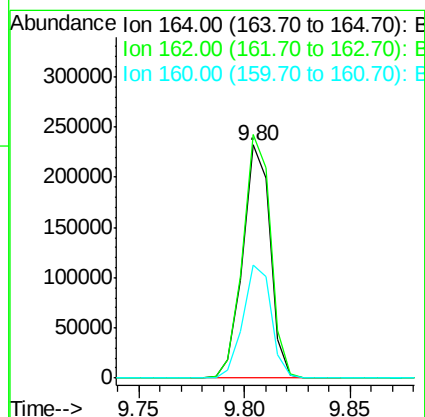
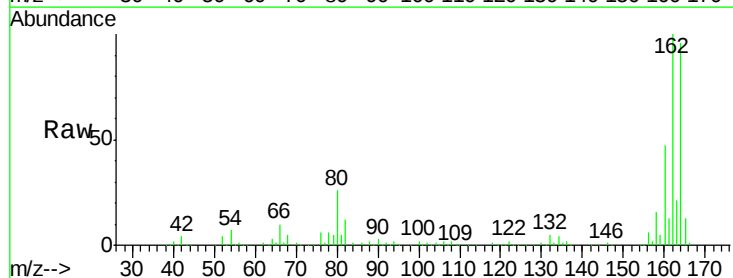
Instrument :  
BNA\_F  
ClientSampleId :  
EP-12

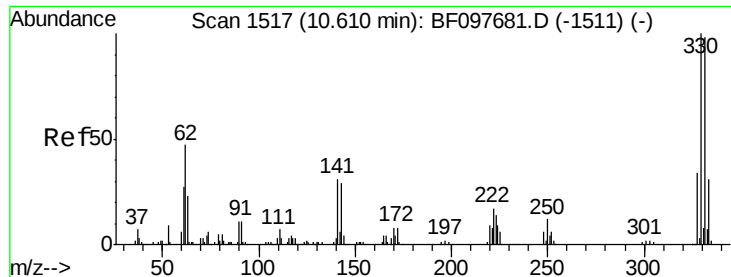
Tot Ion: 82 Resp: 775109  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.3 7.9#  
138 0.0 13.1 19.7#



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.80 min Scan# 1312  
Delta R.T. -0.02 min  
Lab File: BF097843.D  
Acq: 18 Aug 2017 20:06

Tgt Ion: 164 Resp: 208643  
Ion Ratio Lower Upper  
164 100  
162 104.4 82.6 123.8  
160 48.6 36.2 54.2

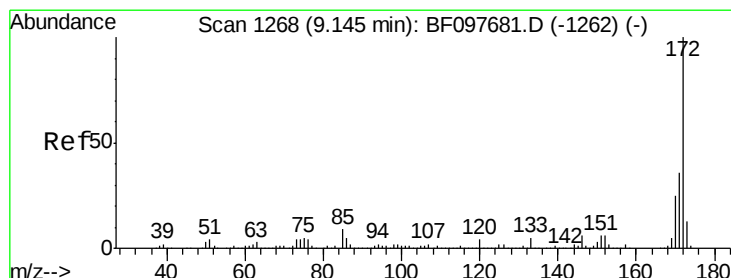
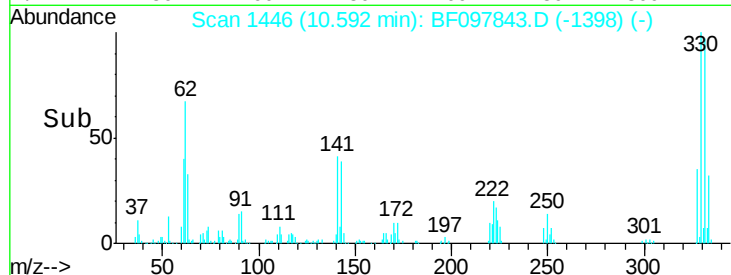
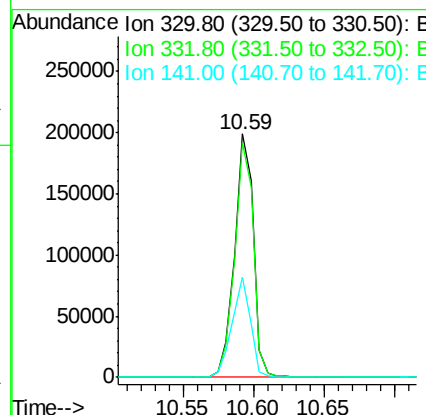
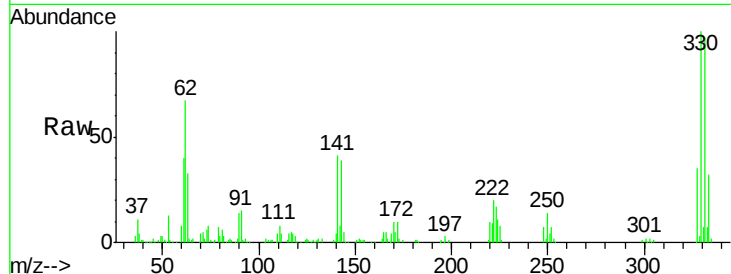




#41  
 2,4,6-Tribromophenol  
 Concen: 102.31 ng  
 RT: 10.59 min Scan# 1446  
 Delta R.T. -0.02 min  
 Lab File: BF097843.D  
 Acq: 18 Aug 2017 20:06

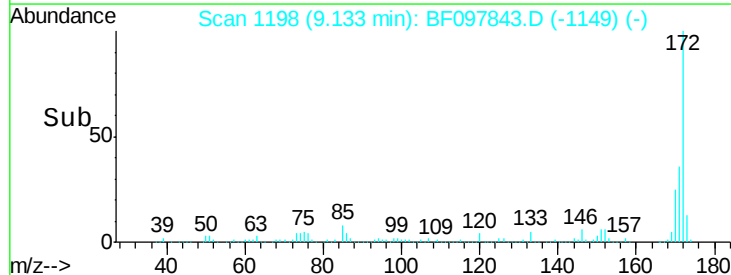
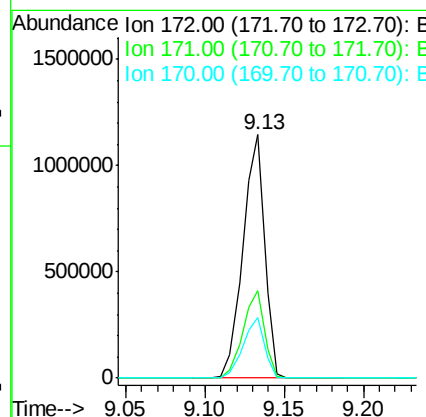
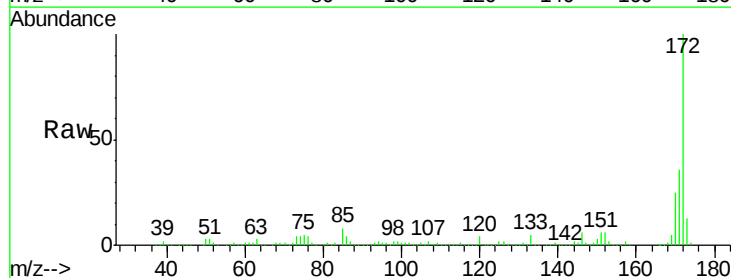
Instrument :  
 BNA\_F  
 ClientSampled :  
 EP-12

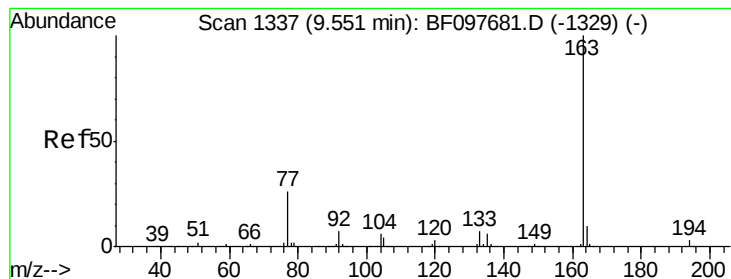
Tot Ion:330 Resp: 185210  
 Ion Ratio Lower Upper  
 330 100  
 332 96.6 76.6 115.0  
 141 41.0 31.4 47.2



#44  
 2-Fluorobiphenyl  
 Concen: 76.53 ng  
 RT: 9.13 min Scan# 1198  
 Delta R.T. -0.01 min  
 Lab File: BF097843.D  
 Acq: 18 Aug 2017 20:06

Tgt Ion:172 Resp: 1086843  
 Ion Ratio Lower Upper  
 172 100  
 171 35.9 29.6 44.4  
 170 24.7 19.8 29.8





#49

Dimethylphthalate

Concen: 11.44 ng

RT: 9.52 min Scan# 1264

Delta R.T. -0.03 min

Lab File: BF097843.D

Acq: 18 Aug 2017 20:06

Instrument :

BNA\_F

ClientSampled :

EP-12

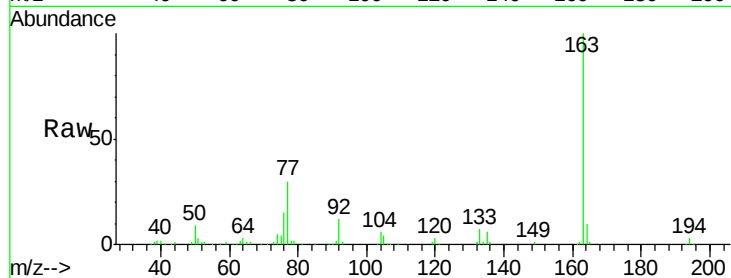
Tot Ion:163 Resp: 174415

Ion Ratio Lower Upper

163 100

194 3.5 2.6 4.0

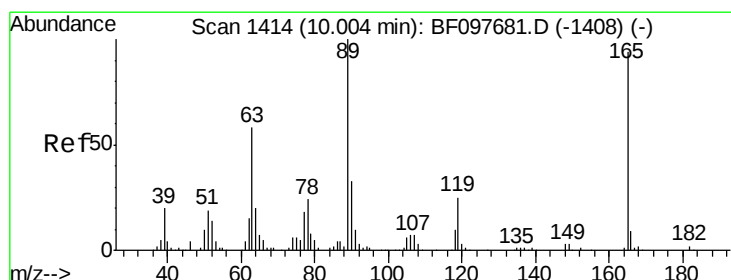
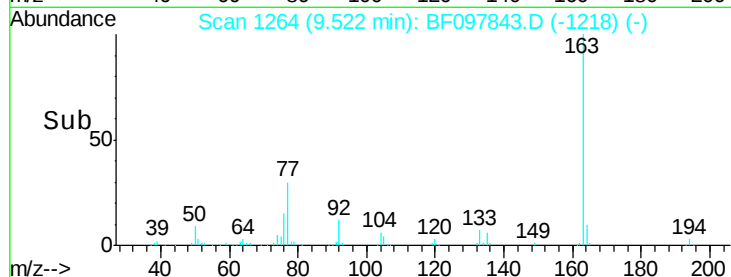
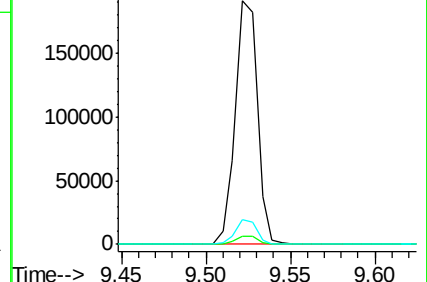
164 10.4 8.4 12.6



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



#56

2,4-Dinitrotoluene

Concen: 7.00 ng

RT: 9.80 min Scan# 1312

Delta R.T. -0.20 min

Lab File: BF097843.D

Acq: 18 Aug 2017 20:06

Tgt Ion:165 Resp: 26744

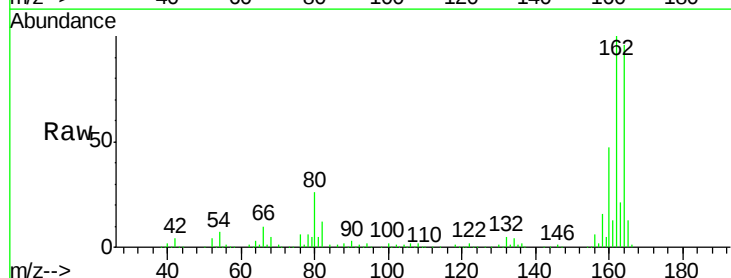
Ion Ratio Lower Upper

165 100

63 1.8 25.4 38.0#

89 2.4 46.4 69.6#

182 0.0 1.8 2.6#

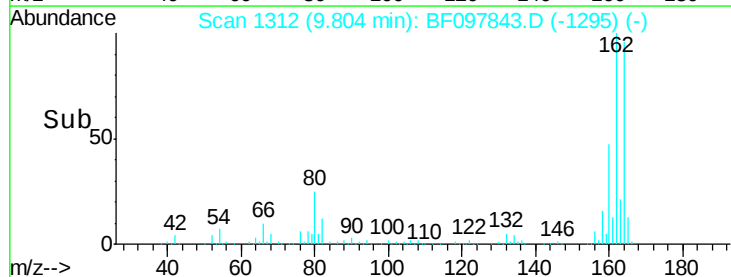
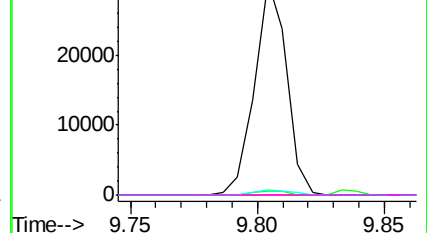


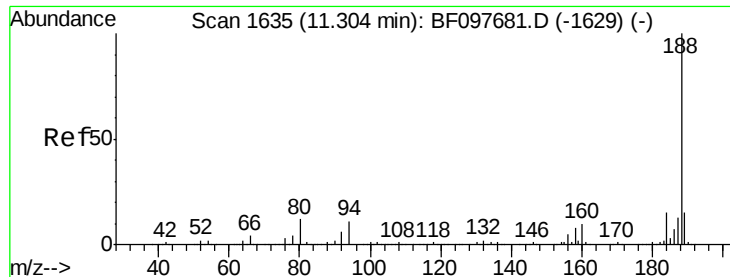
Abundance Ion 165.00 (164.70 to 165.70): E

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

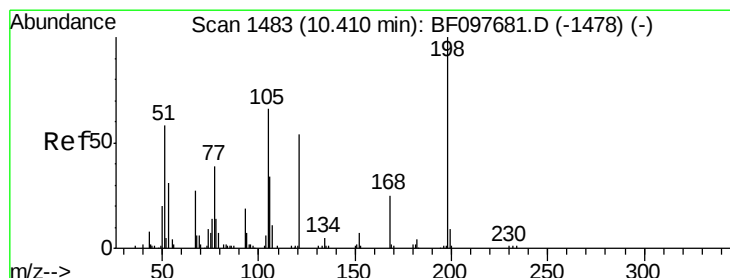
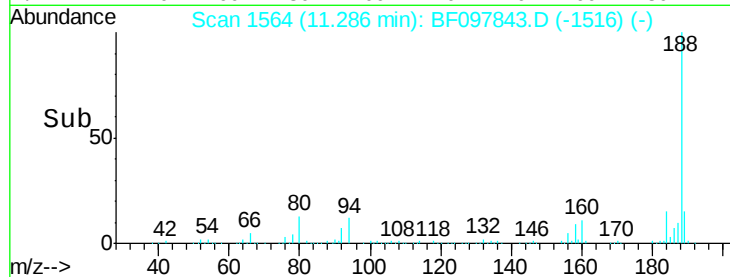
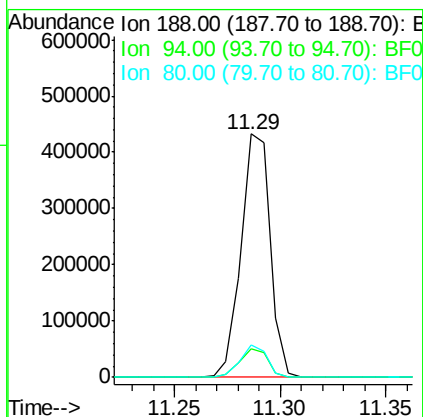
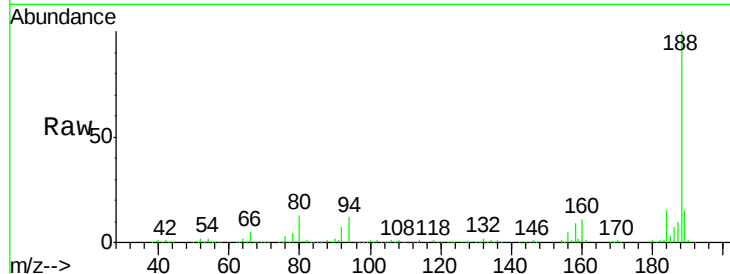




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.29 min Scan# 1564  
Delta R.T. -0.02 min  
Lab File: BF097843.D  
Acq: 18 Aug 2017 20:06

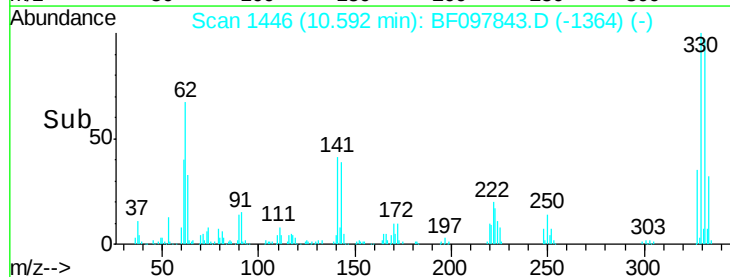
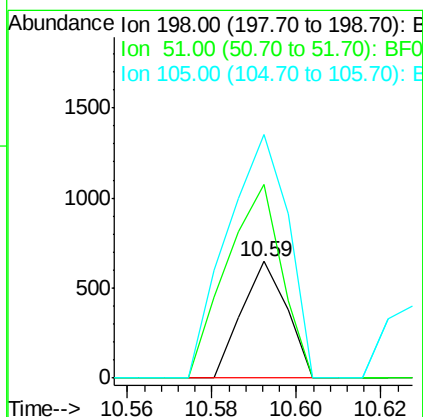
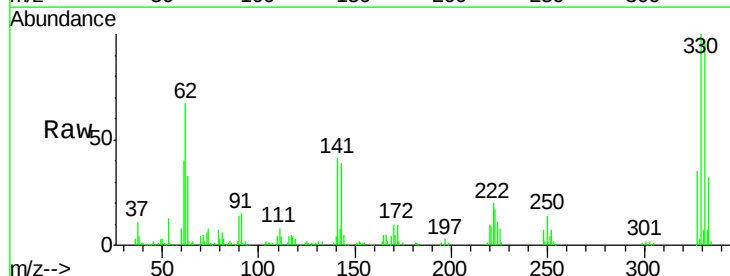
Instrument :  
BNA\_F  
ClientSampled :  
EP-12

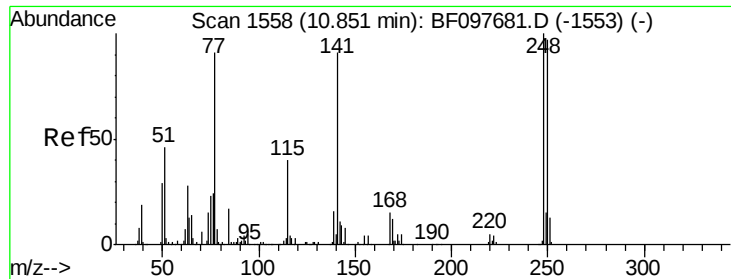
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 12.0  | 9.4   | 14.2  |
| 80      | 13.4  | 10.2  | 15.2  |



#64  
4,6-Dinitro-2-methylphenol  
Concen: 8.52 ng  
RT: 10.59 min Scan# 1446  
Delta R.T. 0.18 min  
Lab File: BF097843.D  
Acq: 18 Aug 2017 20:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 166.5 | 53.2  | 93.2# |
| 105     | 209.0 | 45.8  | 85.8# |

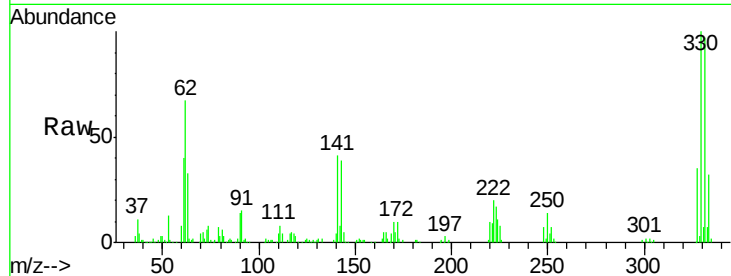




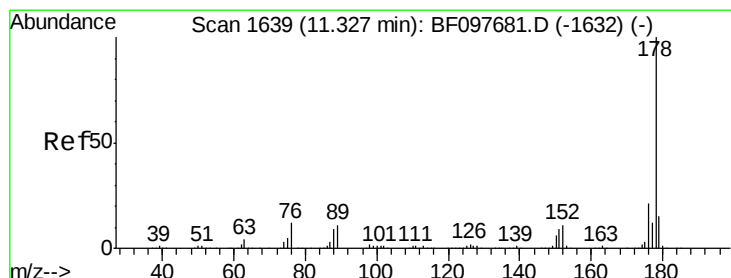
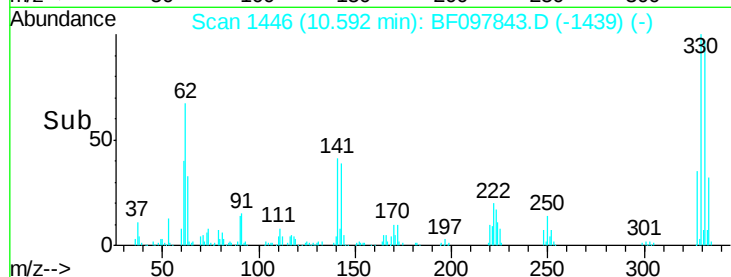
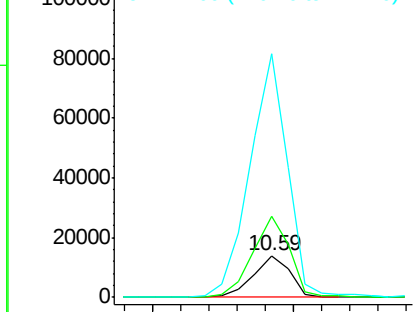
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.94 ng  
 RT: 10.59 min Scan# 1446  
 Delta R.T. -0.26 min  
 Lab File: BF097843.D  
 Acq: 18 Aug 2017 20:06

Instrument :  
 BNA\_F  
 ClientSampled :  
 EP-12

Tot Ion:248 Resp: 12650  
 Ion Ratio Lower Upper  
 248 100  
 250 193.5 76.8 115.2#  
 141 581.1 68.6 103.0#

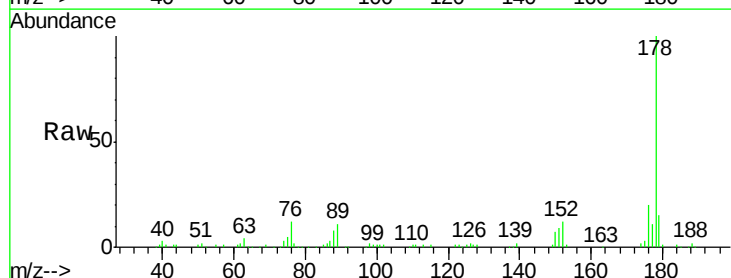


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

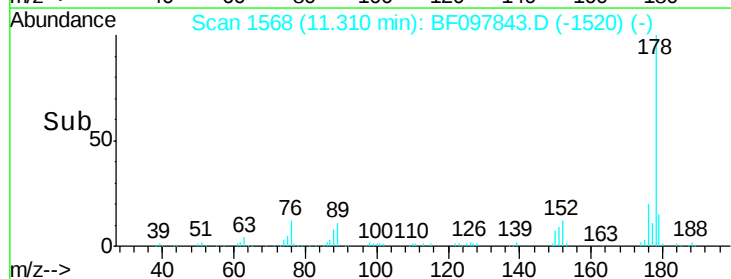
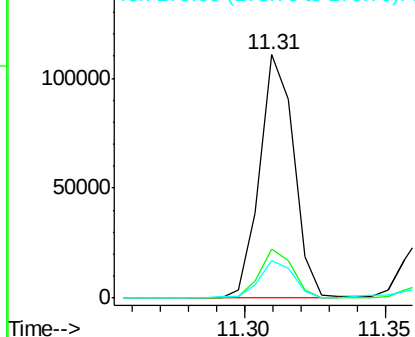


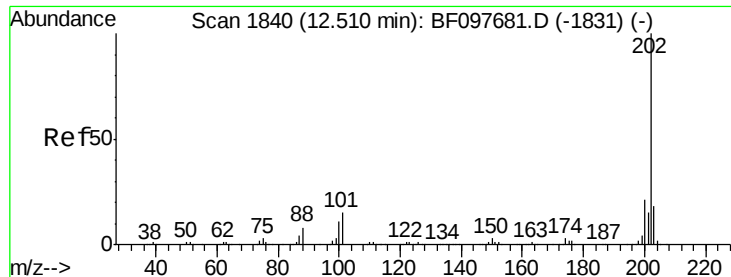
#70  
 Phenanthrene  
 Concen: 4.23 ng  
 RT: 11.31 min Scan# 1568  
 Delta R.T. -0.02 min  
 Lab File: BF097843.D  
 Acq: 18 Aug 2017 20:06

Tgt Ion:178 Resp: 93465  
 Ion Ratio Lower Upper  
 178 100  
 176 20.1 16.2 24.4  
 179 15.3 12.6 19.0



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

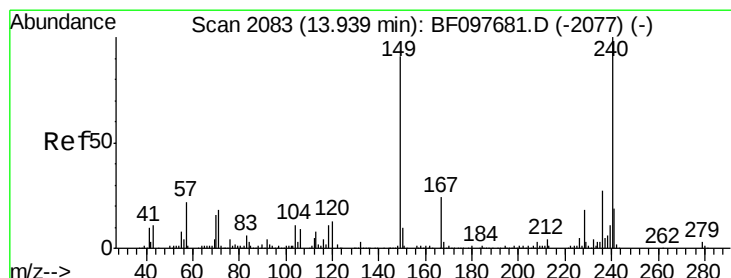
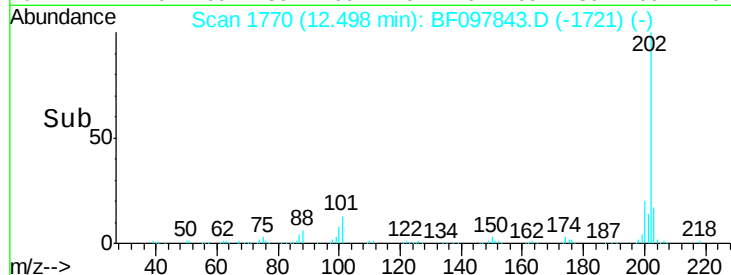
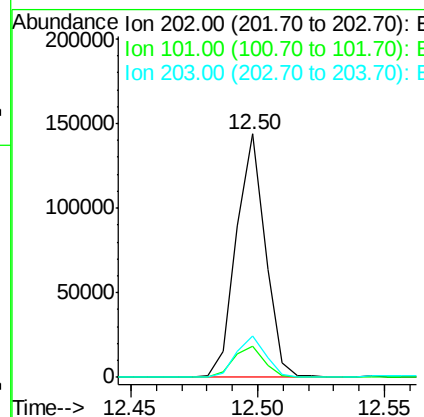
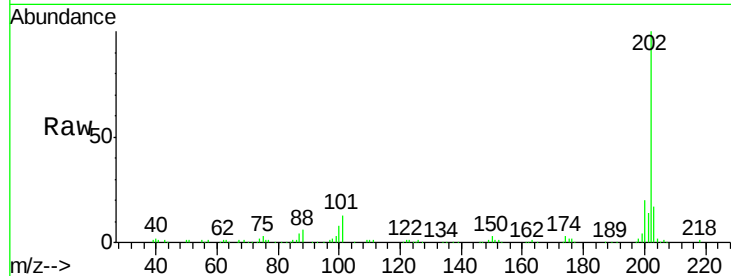




#74  
Fluoranthene  
Concen: 4.97 ng  
RT: 12.50 min Scan# 1770  
Delta R.T. -0.01 min  
Lab File: BF097843.D  
Acq: 18 Aug 2017 20:06

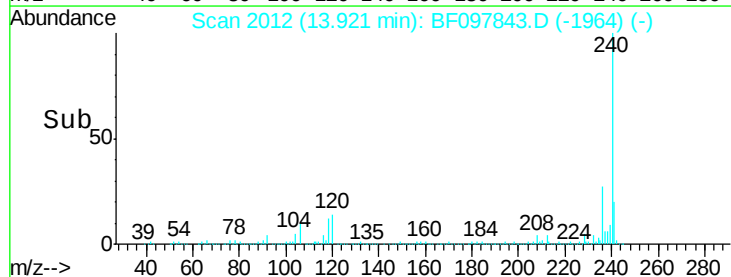
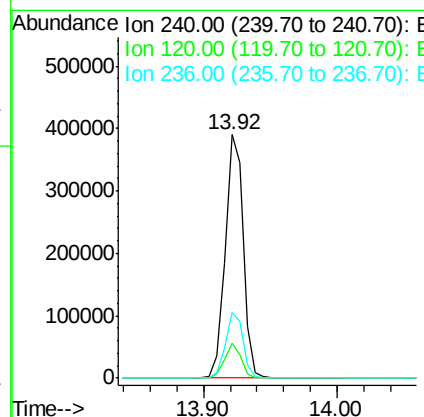
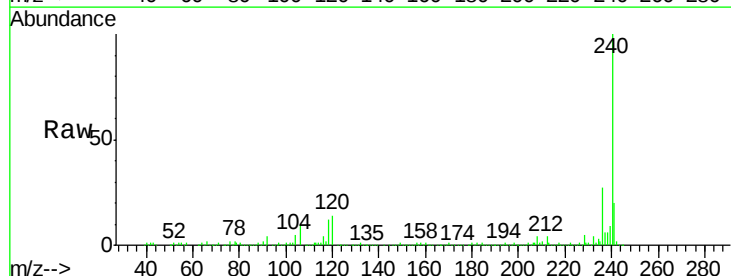
Instrument :  
BNA\_F  
ClientSampleId :  
EP-12

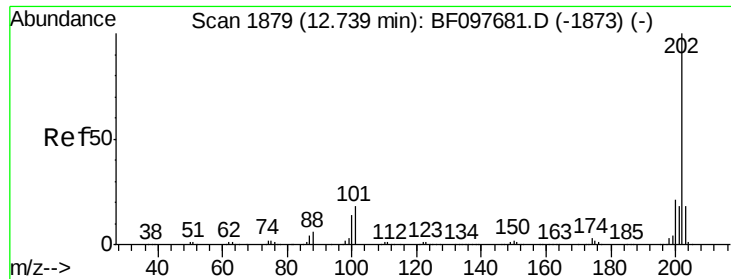
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.8  | 0.0   | 33.2  |
| 203     | 16.9  | 0.0   | 38.1  |



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.92 min Scan# 2012  
Delta R.T. -0.02 min  
Lab File: BF097843.D  
Acq: 18 Aug 2017 20:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 14.1  | 5.8   | 8.8#  |
| 236     | 27.0  | 20.5  | 30.7  |

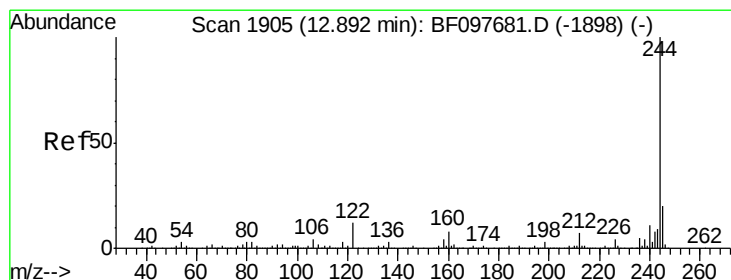
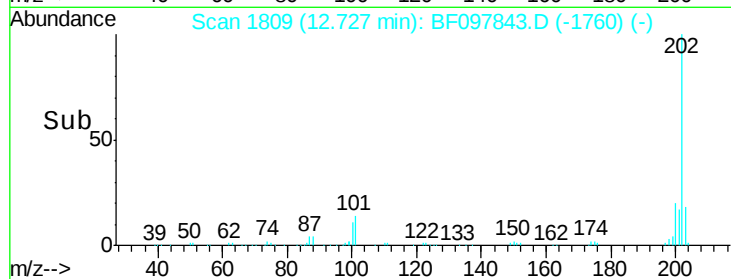
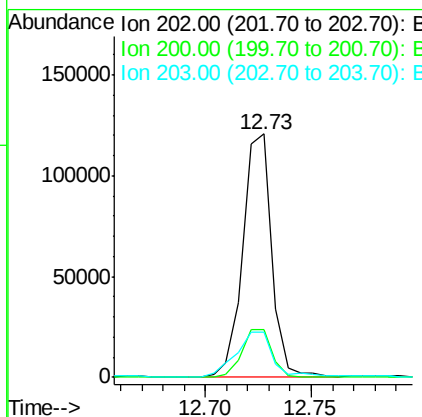
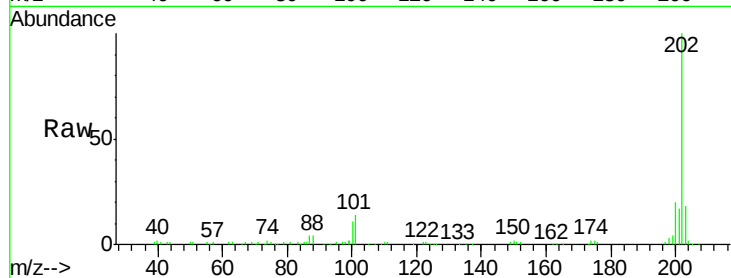




#77  
 Pvrene  
 Concen: 3.76 ng  
 RT: 12.73 min Scan# 1809  
 Delta R.T. -0.01 min  
 Lab File: BF097843.D  
 Acq: 18 Aug 2017 20:06

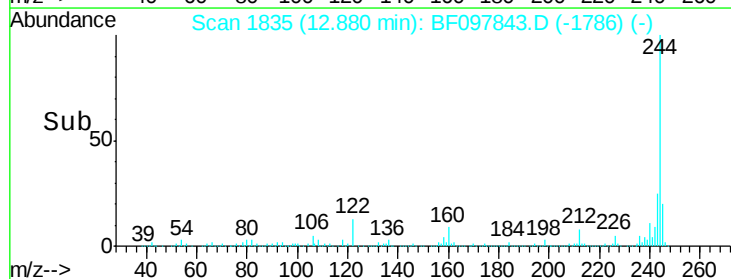
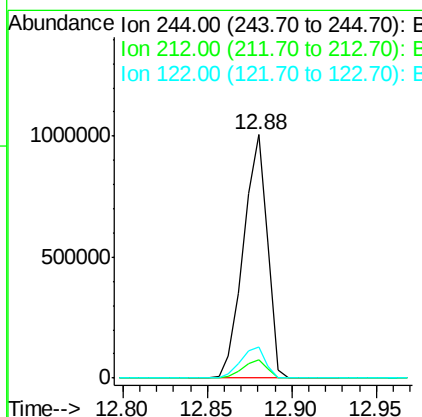
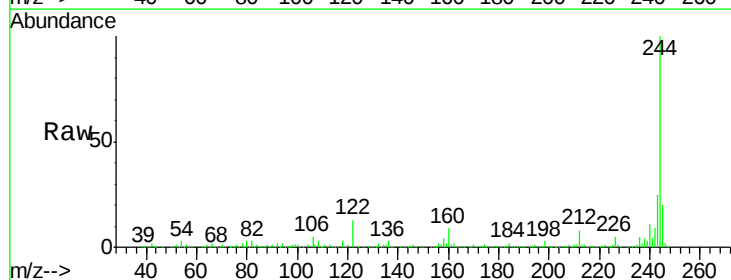
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EP-12

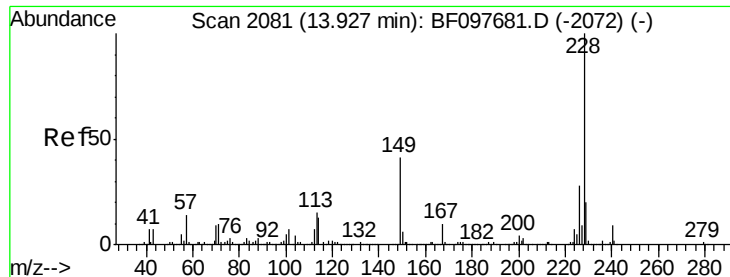
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 114770 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 200      | 19.7  | 17.6  | 26.4   |
| 203      | 18.3  | 14.4  | 21.6   |



#78  
 Terphenyl-d14  
 Concen: 55.63 ng  
 RT: 12.88 min Scan# 1835  
 Delta R.T. -0.01 min  
 Lab File: BF097843.D  
 Acq: 18 Aug 2017 20:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 244   | Resp: | 996641 |
| Ion      | Ratio | Lower | Upper  |
| 244      | 100   |       |        |
| 212      | 7.6   | 6.0   | 9.0    |
| 122      | 12.9  | 10.3  | 15.5   |

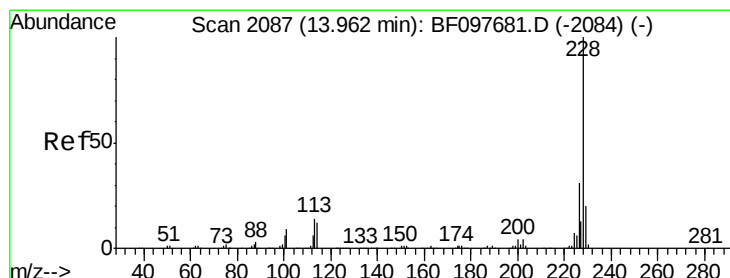
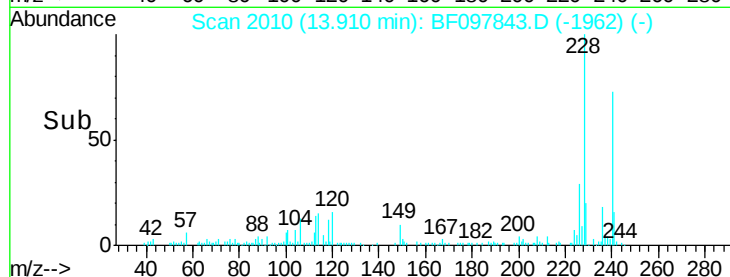
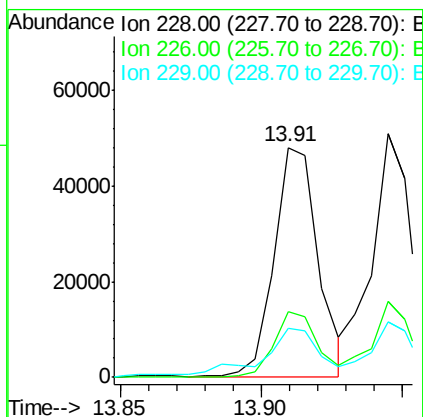
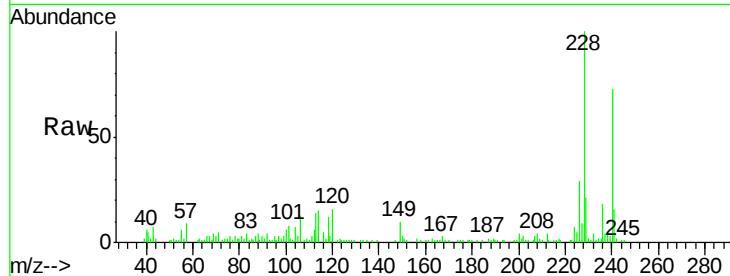




#80  
Benzo(a)anthracene  
Concen: 2.34 ng  
RT: 13.91 min Scan# 2010  
Delta R.T. -0.02 min  
Lab File: BF097843.D  
Acq: 18 Aug 2017 20:06

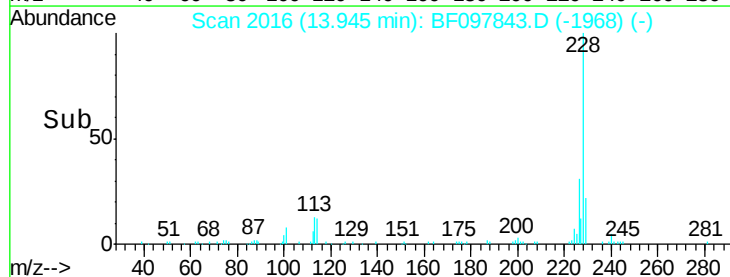
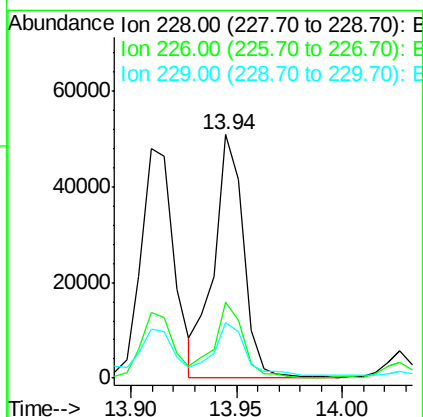
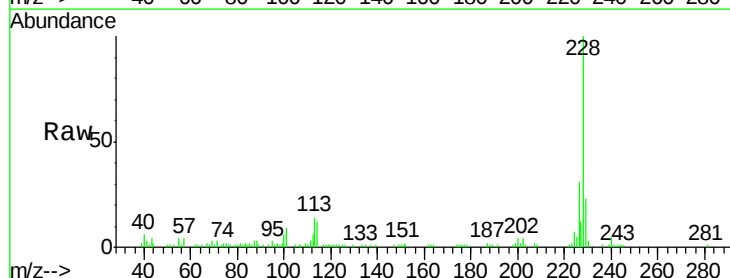
Instrument :  
BNA\_F  
ClientSampleId :  
EP-12

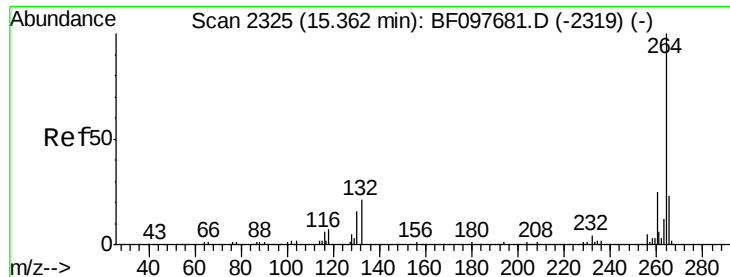
Tot Ion:228 Resp: 52451  
Ion Ratio Lower Upper  
228 100  
226 28.8 22.6 33.8  
229 21.3 16.3 24.5



#82  
Chrysene  
Concen: 2.24 ng  
RT: 13.94 min Scan# 2016  
Delta R.T. -0.02 min  
Lab File: BF097843.D  
Acq: 18 Aug 2017 20:06

Tgt Ion:228 Resp: 50000  
Ion Ratio Lower Upper  
228 100  
226 31.0 24.9 37.3  
229 22.5 15.8 23.6

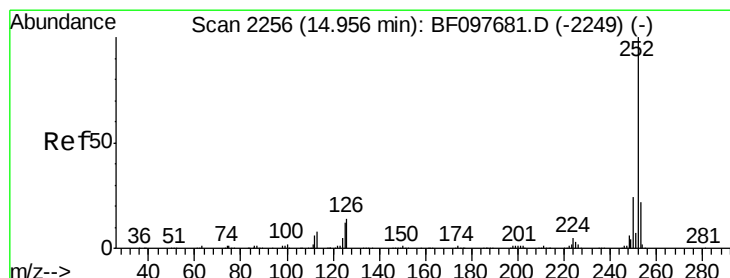
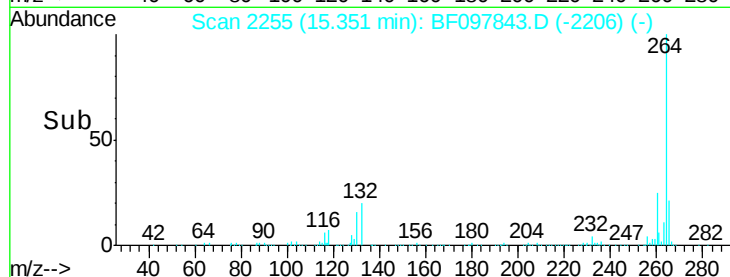
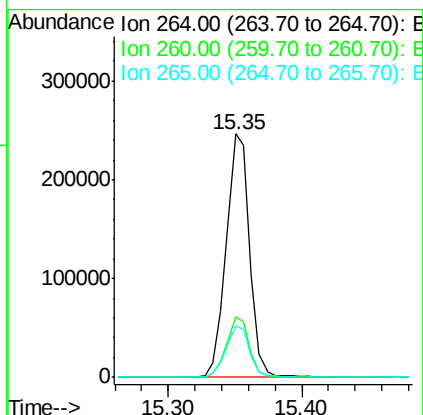
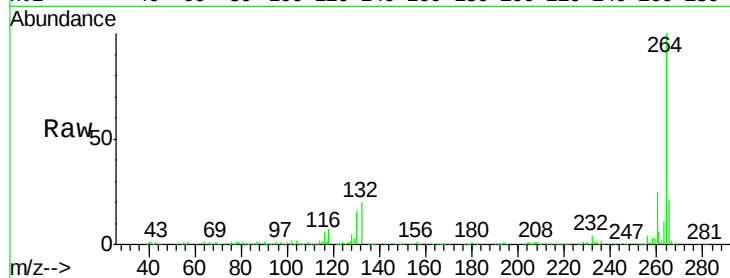




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.35 min Scan# 2255  
Delta R.T. -0.01 min  
Lab File: BF097843.D  
Acq: 18 Aug 2017 20:06

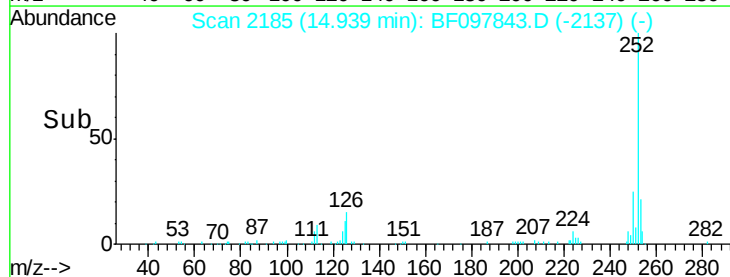
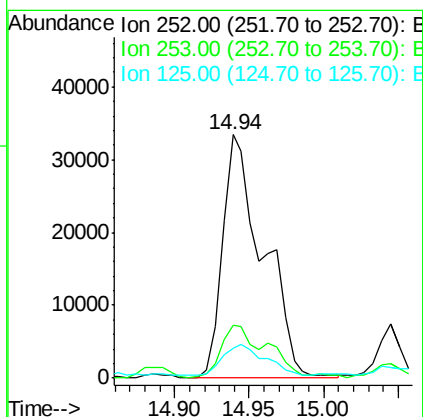
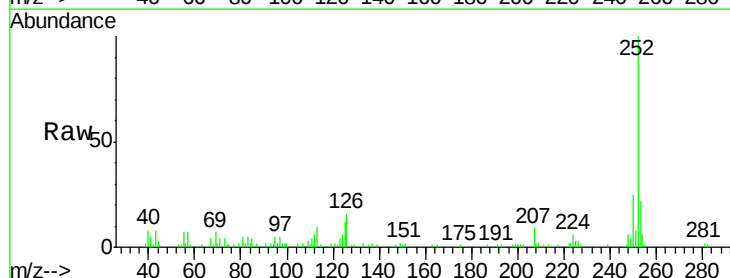
Instrument :  
BNA\_F  
ClientSampleId :  
EP-12

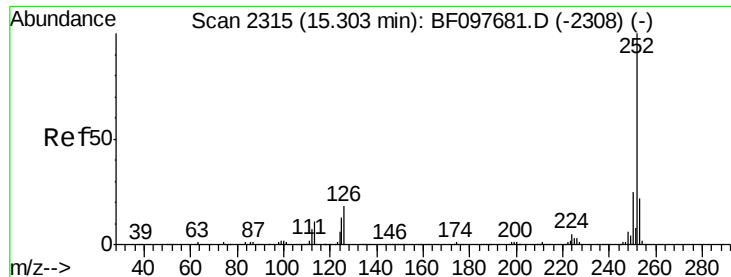
Tot Ion:264 Resp: 305836  
Ion Ratio Lower Upper  
264 100  
260 25.0 19.5 29.3  
265 21.0 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 3.30 ng  
RT: 14.94 min Scan# 2185  
Delta R.T. -0.02 min  
Lab File: BF097843.D  
Acq: 18 Aug 2017 20:06

Tgt Ion:252 Resp: 63597  
Ion Ratio Lower Upper  
252 100  
253 21.9 18.1 27.1  
125 12.2 9.8 14.8





#89

Benzo(a)pyrene

Concen: 2.17 ng

RT: 15.29 min Scan# 2244

Delta R.T. -0.02 min

Lab File: BF097843.D

Acq: 18 Aug 2017 20:06

Instrument :

BNA\_F

ClientSampleId :

EP-12

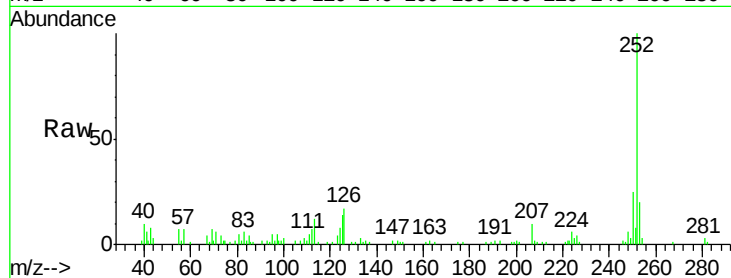
Tot Ion:252 Resp: 37048

Ion Ratio Lower Upper

252 100

253 20.4 17.5 26.3

125 13.8 11.0 16.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

