

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\  
 Data File : BF097144.D  
 Acq On : 28 Jul 2017 10:29  
 Operator : SJ/JU  
 Sample : I4444-07 10X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-02-072517-C

Quant Time: Jul 28 13:19:49 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

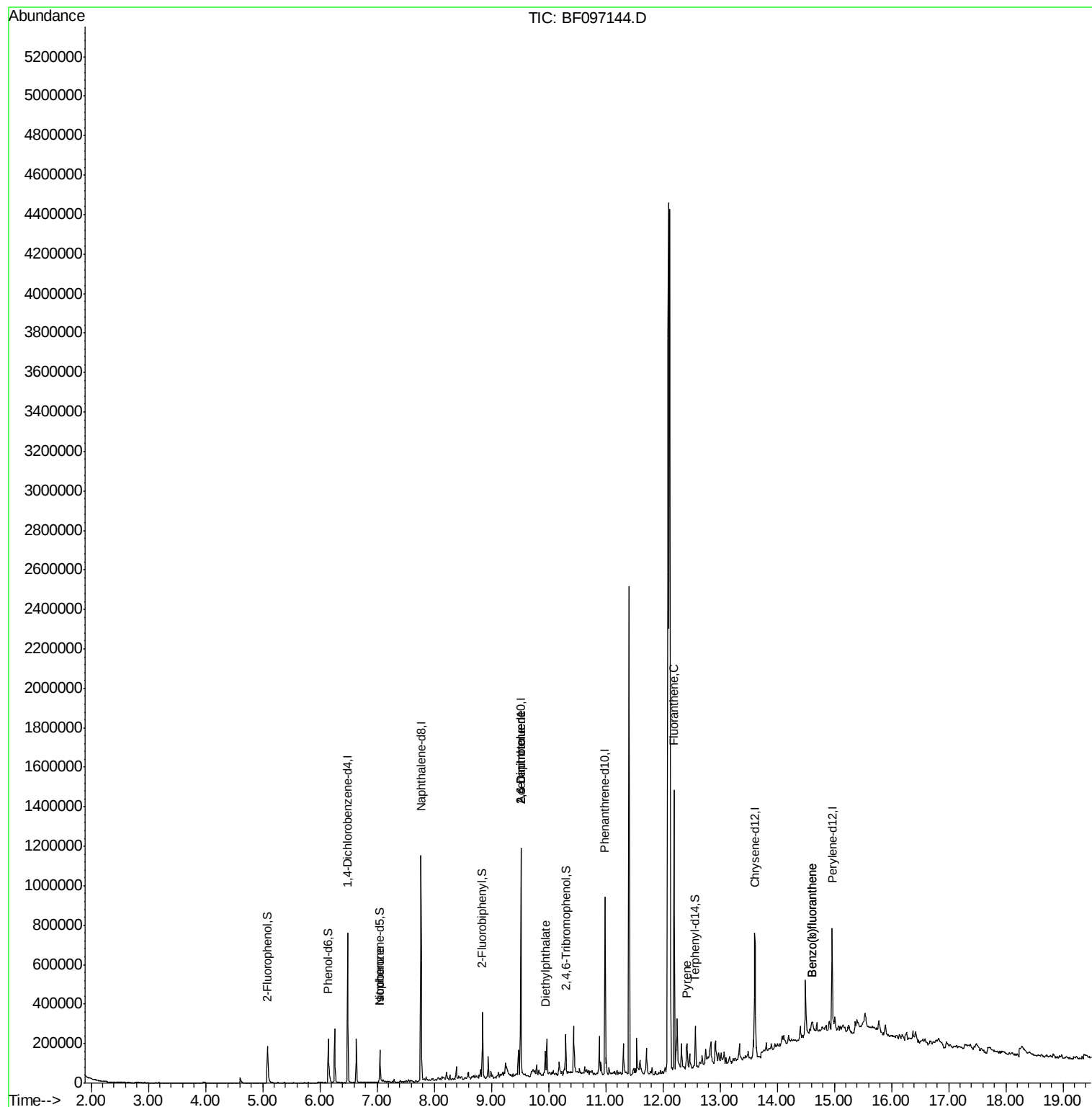
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.49  | 152  | 114991   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 7.77  | 136  | 478838   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.52  | 164  | 204144   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10        | 10.99 | 188  | 329338   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12            | 13.61 | 240  | 217094   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12            | 14.96 | 264  | 199153   | 20.00 | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.08  | 112  | 68844    | 9.03  | ng    | -0.02    |
| 7) Phenol-d6                | 6.15  | 99   | 91127    | 10.46 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.05  | 82   | 50273    | 6.16  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.30 | 330  | 16993    | 10.54 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 8.85  | 172  | 91450    | 7.60  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.57 | 244  | 60856    | 5.72  | ng    | -0.02    |
| Target Compounds            |       |      |          |       |       |          |
| 25) Isophorone              | 7.05  | 82   | 50273    | 3.145 | ng    | # 67     |
| 50) 2,6-Dinitrotoluene      | 9.52  | 165  | 26912    | 8.185 | ng    | # 34     |
| 56) 2,4-Dinitrotoluene      | 9.52  | 165  | 26912    | 7.120 | ng    | # 34     |
| 59) Diethylphthalate        | 9.95  | 149  | 40800    | 2.869 | ng    | 99       |
| 74) Fluoranthene            | 12.19 | 202  | 40360    | 2.335 | ng    | 82       |
| 77) Pyrene                  | 12.42 | 202  | 47575    | 2.677 | ng    | 99       |
| 87) Benzo(b)fluoranthene    | 14.60 | 252  | 25705    | 2.147 | ng    | # 79     |
| 88) Benzo(k)fluoranthene    | 14.60 | 252  | 25705    | 2.253 | ng    | # 83     |

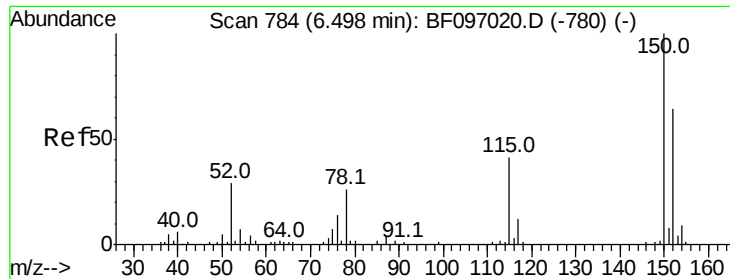
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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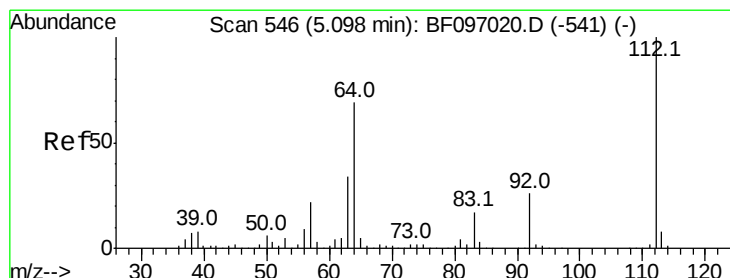
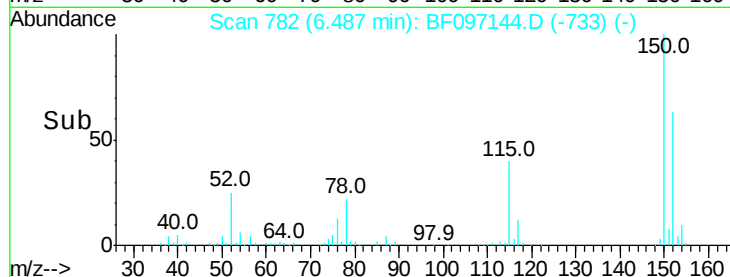
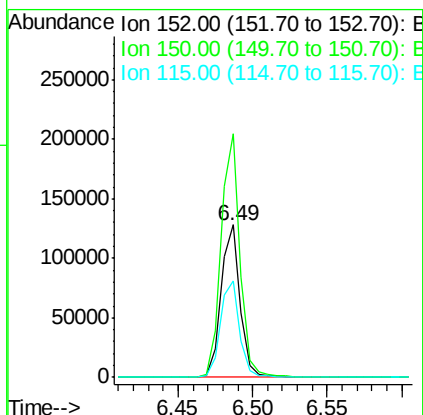
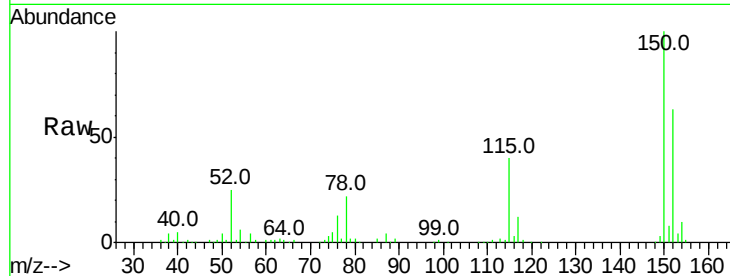


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.49 min Scan# 782  
Delta R.T. -0.01 min  
Lab File: BF097144.D  
Acq: 28 Jul 2017 10:29

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-072517-C

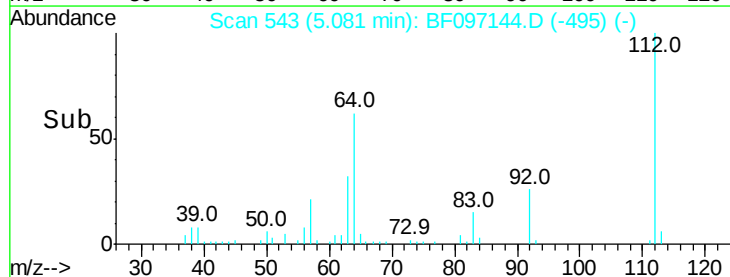
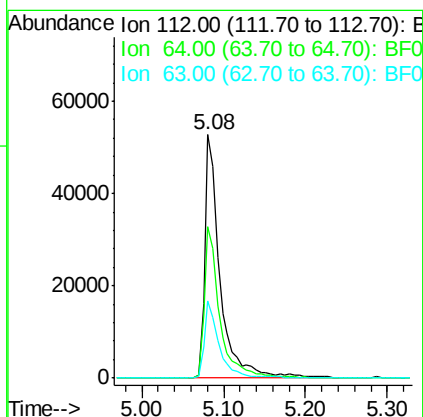
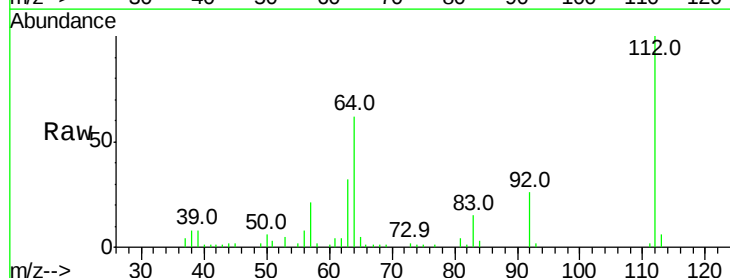
Tot Ion:152 Resp: 114991  
Ion Ratio Lower Upper  
152 100  
150 159.4 126.2 189.2  
115 63.6 52.2 78.2

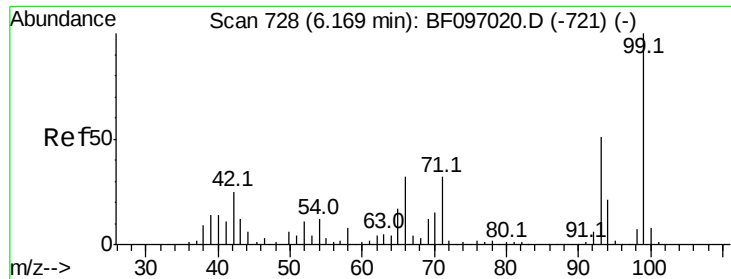


#5

2-Fluorophenol  
Concen: 9.025 ng  
RT: 5.08 min Scan# 543  
Delta R.T. -0.02 min  
Lab File: BF097144.D  
Acq: 28 Jul 2017 10:29

Tgt Ion:112 Resp: 68844  
Ion Ratio Lower Upper  
112 100  
64 62.1 46.0 69.0  
63 31.7 23.4 35.0





#7

Phenol-d6

Concen: 10.464 ng

RT: 6.15 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF097144.D

Acq: 28 Jul 2017 10:29

Instrument :

BNA\_F

ClientSampleId :

EO-02-072517-C

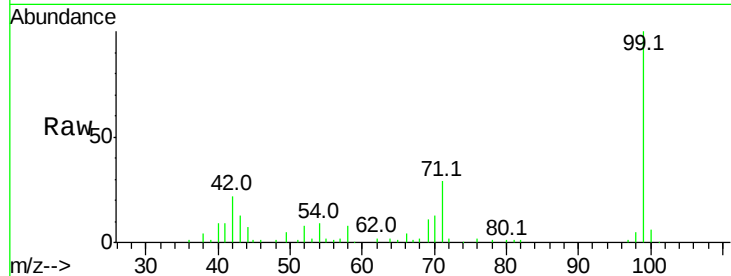
Tot Ion: 99 Resp: 91127

Ion Ratio Lower Upper

99 100

42 22.0 13.5 20.3#

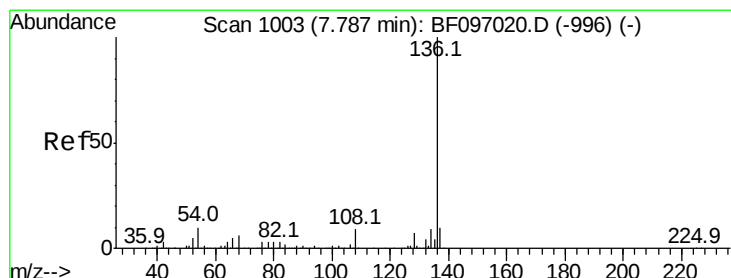
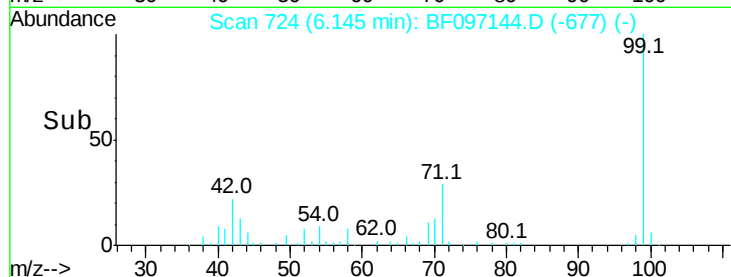
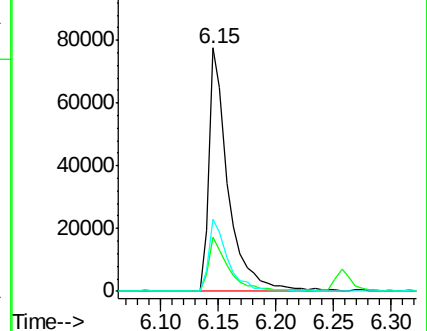
71 29.4 24.5 36.7



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.77 min Scan# 1000

Delta R.T. -0.02 min

Lab File: BF097144.D

Acq: 28 Jul 2017 10:29

Tgt Ion:136 Resp: 478838

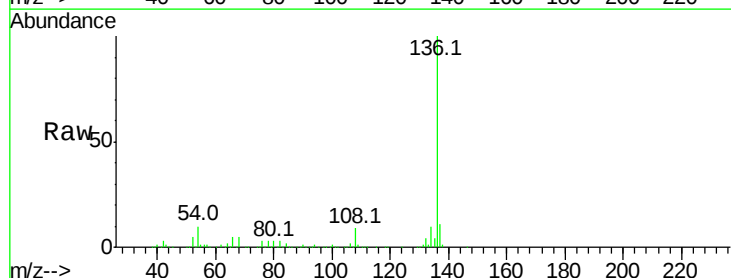
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 10.0 4.9 7.3#

68 5.3 4.1 6.1

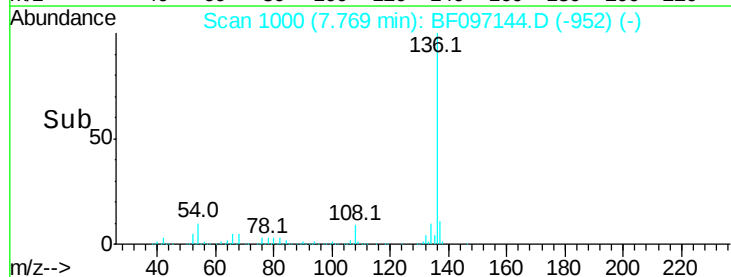
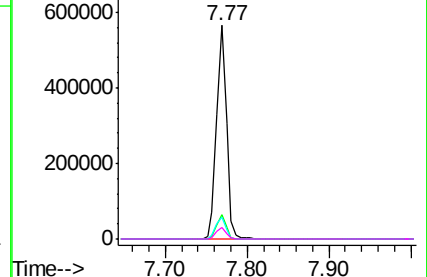


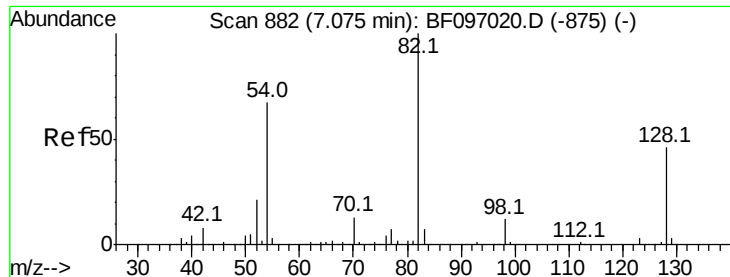
Abundance Ion 136.00 (135.70 to 136.70): E

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: 6.159 ng

RT: 7.05 min Scan# 878

Delta R.T. -0.02 min

Lab File: BF097144.D

Acq: 28 Jul 2017 10:29

Instrument :

BNA\_F

ClientSampleId :

EO-02-072517-C

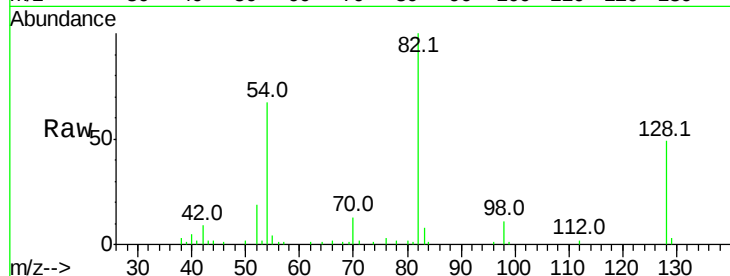
Tot Ion: 82 Resp: 50273

Ion Ratio Lower Upper

82 100

128 48.9 34.0 51.0

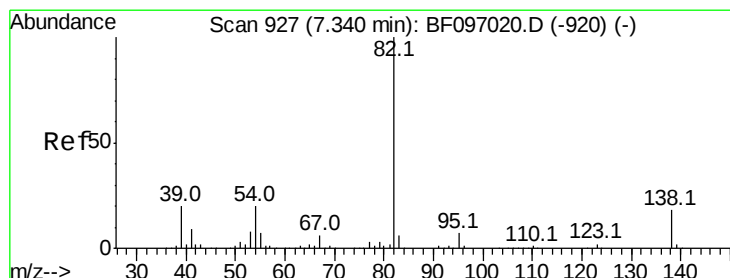
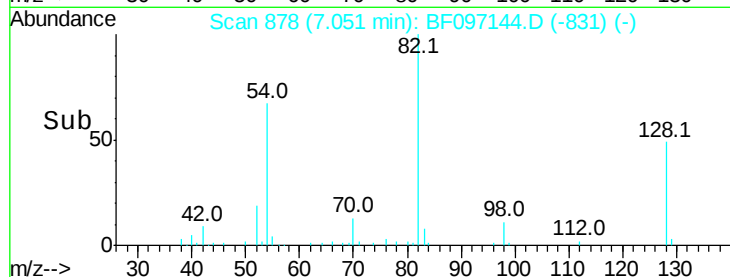
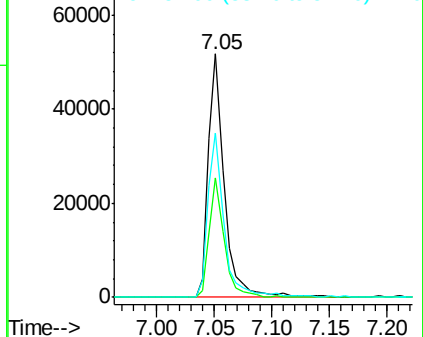
54 67.5 42.2 63.2#



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



#25

Isophorone

Concen: 3.145 ng

RT: 7.05 min Scan# 878

Delta R.T. -0.29 min

Lab File: BF097144.D

Acq: 28 Jul 2017 10:29

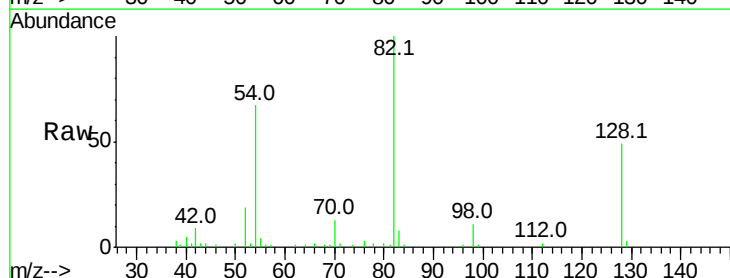
Tgt Ion: 82 Resp: 50273

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

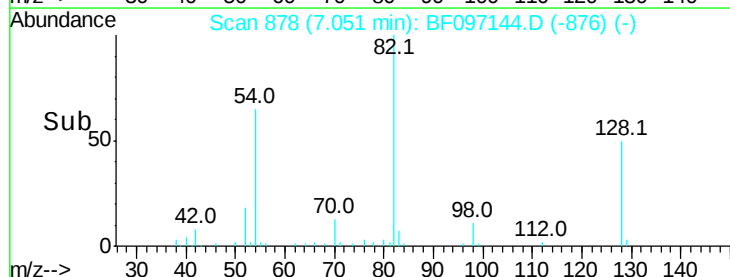
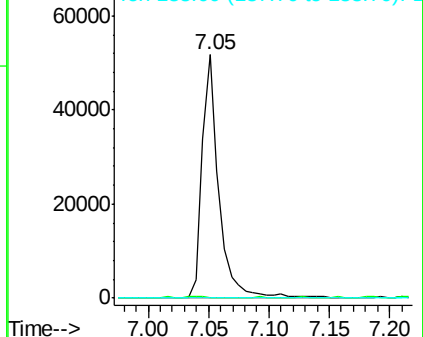
138 0.0 13.1 19.7#

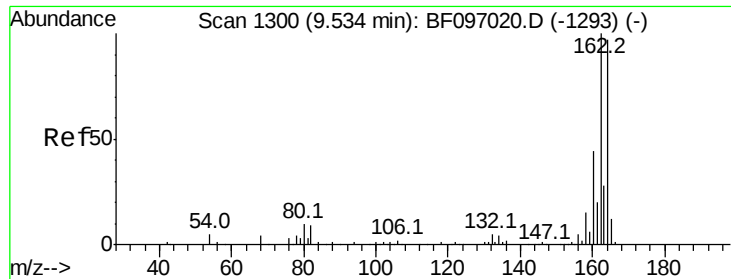


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

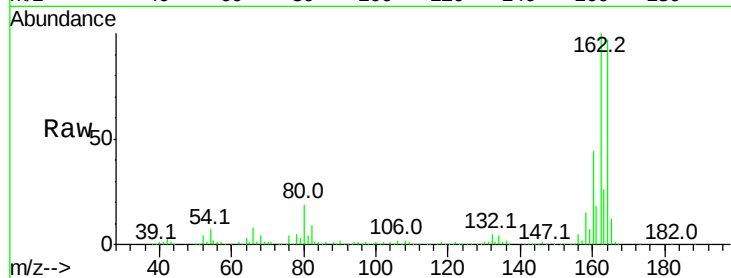




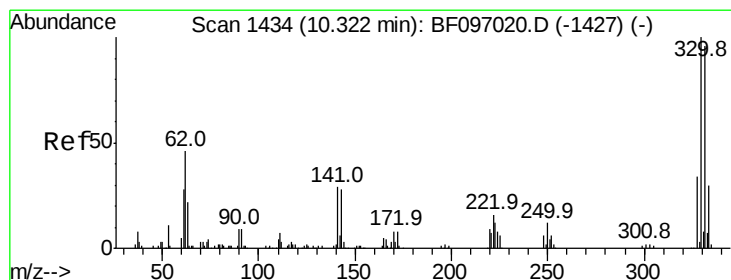
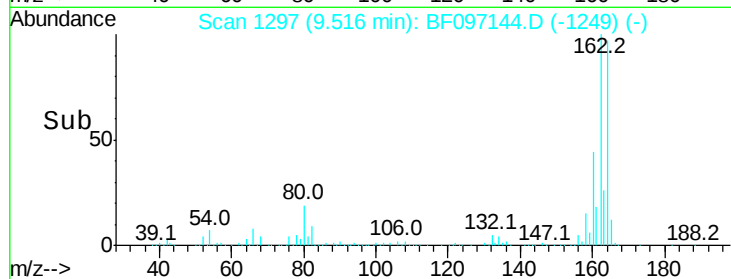
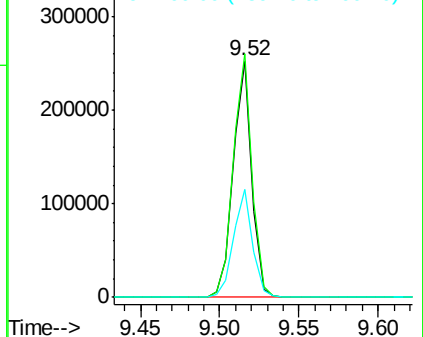
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.52 min Scan# 1297  
 Delta R.T. -0.02 min  
 Lab File: BF097144.D  
 Acq: 28 Jul 2017 10:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-02-072517-C

Tot Ion:164 Resp: 204144  
 Ion Ratio Lower Upper  
 164 100  
 162 103.0 82.6 123.8  
 160 45.5 36.2 54.2

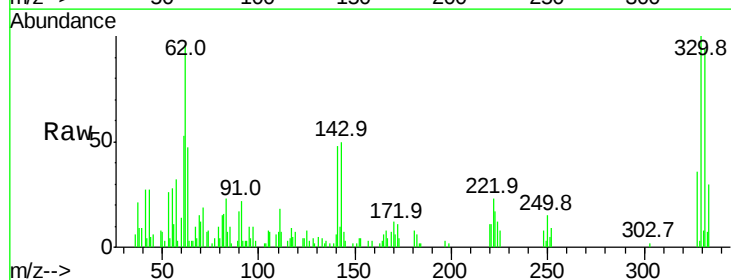


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

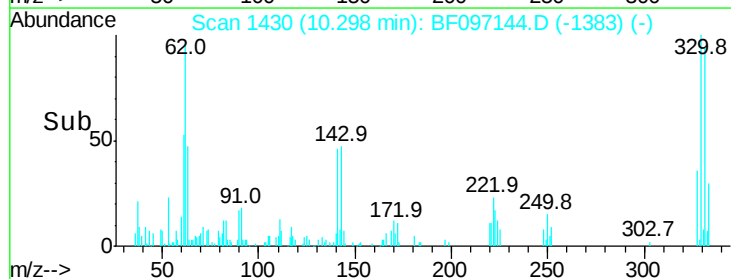
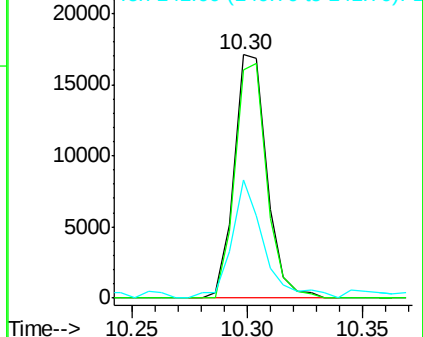


#41  
 2,4,6-Tribromophenol  
 Concen: 10.535 ng  
 RT: 10.30 min Scan# 1430  
 Delta R.T. -0.02 min  
 Lab File: BF097144.D  
 Acq: 28 Jul 2017 10:29

Tgt Ion:330 Resp: 16993  
 Ion Ratio Lower Upper  
 330 100  
 332 93.7 76.6 115.0  
 141 46.7 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

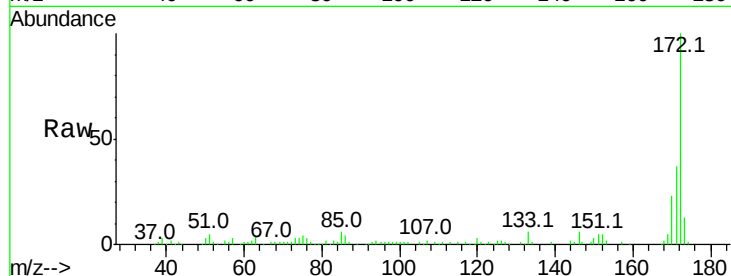




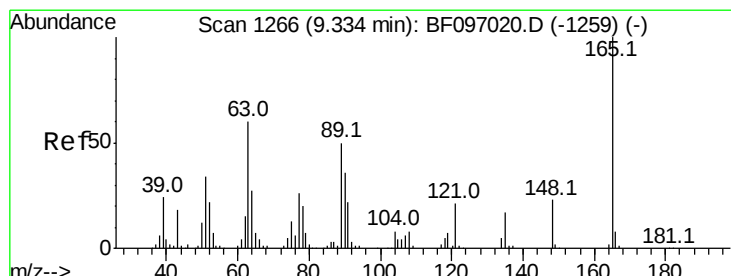
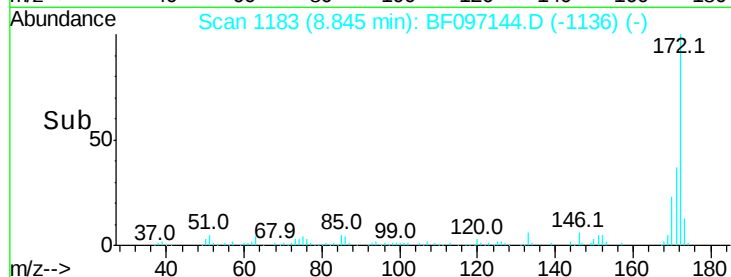
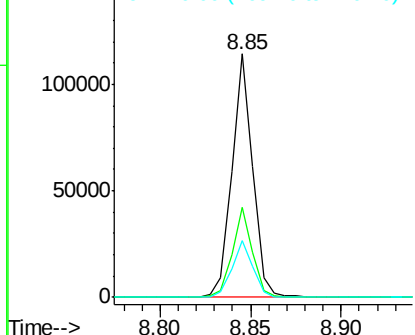
#44  
 2-Fluorobiphenyl  
 Concen: 7.602 ng  
 RT: 8.85 min Scan# 1183  
 Delta R.T. -0.02 min  
 Lab File: BF097144.D  
 Acq: 28 Jul 2017 10:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-02-072517-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 29.6  | 44.4  |
| 170     | 23.5  | 19.8  | 29.8  |

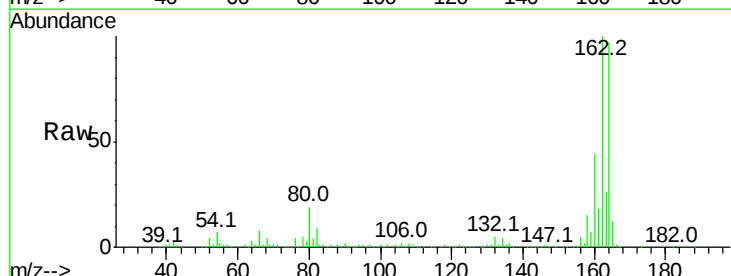


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

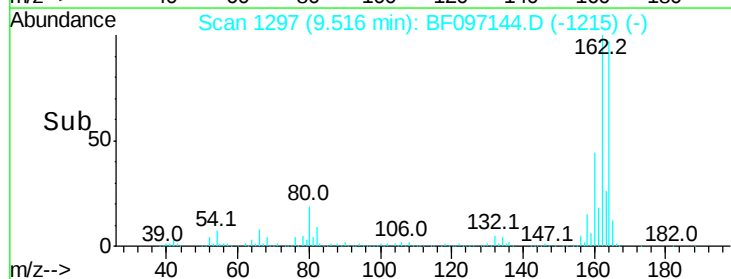
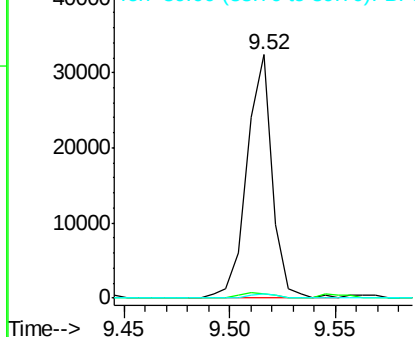


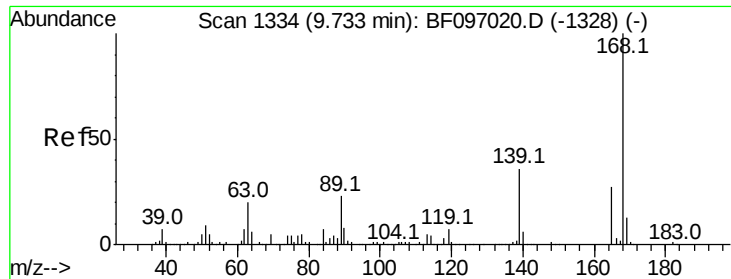
#50  
 2,6-Dinitrotoluene  
 Concen: 8.185 ng  
 RT: 9.52 min Scan# 1297  
 Delta R.T. 0.18 min  
 Lab File: BF097144.D  
 Acq: 28 Jul 2017 10:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 34.3  | 51.5# |
| 89      | 1.9   | 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

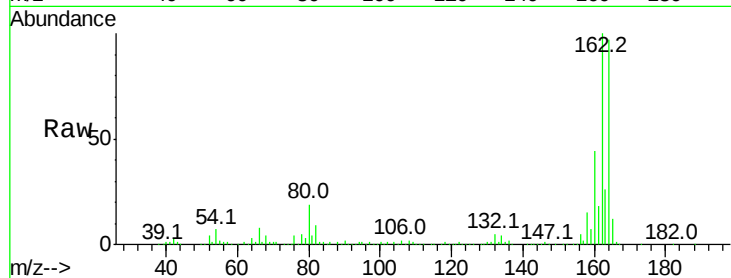




#56  
2,4-Dinitrotoluene  
Concen: 7.120 ng  
RT: 9.52 min Scan# 1297  
Delta R.T. -0.22 min  
Lab File: BF097144.D  
Acq: 28 Jul 2017 10:29

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-072517-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 25.4  | 38.0# |
| 89      | 1.9   | 46.4  | 69.6# |
| 182     | 1.7   | 1.8   | 2.6#  |

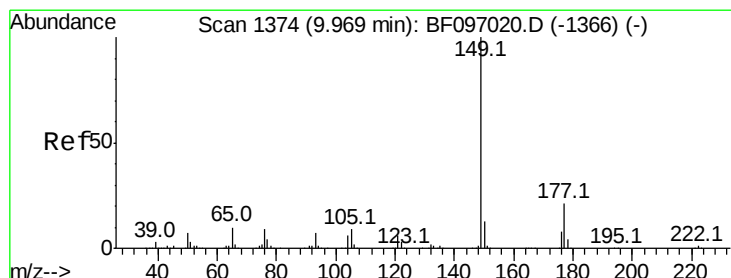
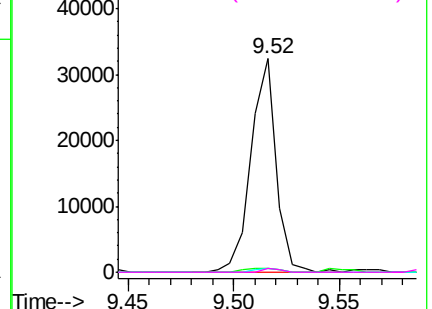
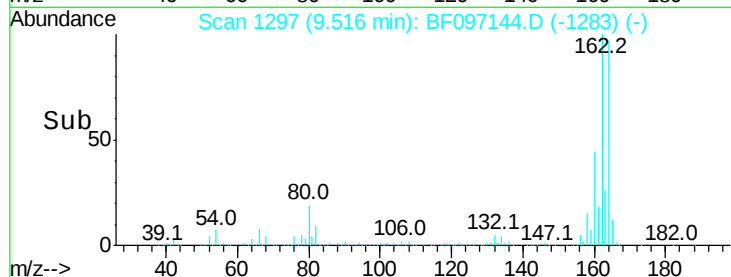


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

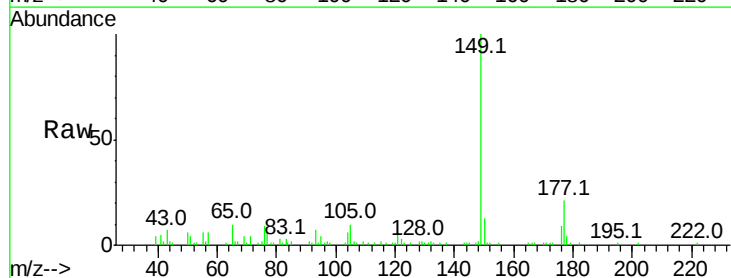
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#59  
Diethylphthalate  
Concen: 2.869 ng  
RT: 9.95 min Scan# 1370  
Delta R.T. -0.02 min  
Lab File: BF097144.D  
Acq: 28 Jul 2017 10:29

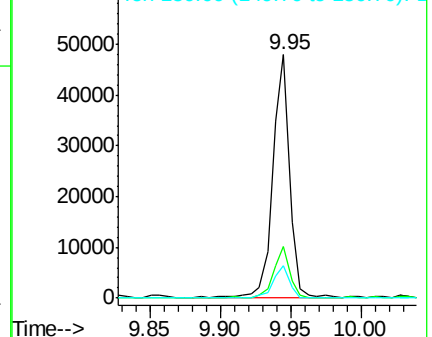
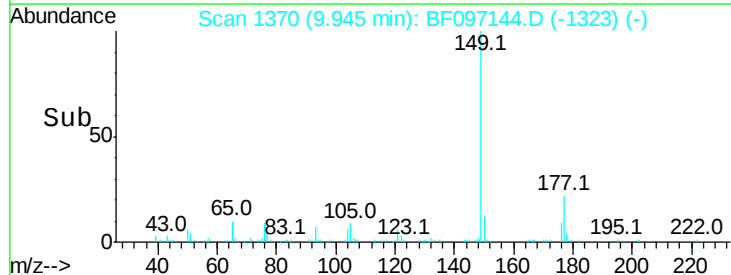
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 21.4  | 16.7  | 25.1  |
| 150     | 13.3  | 10.2  | 15.2  |

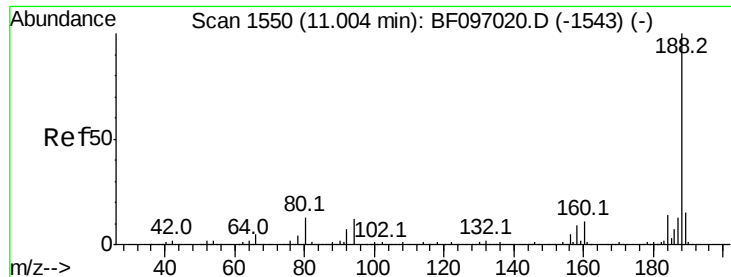


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E

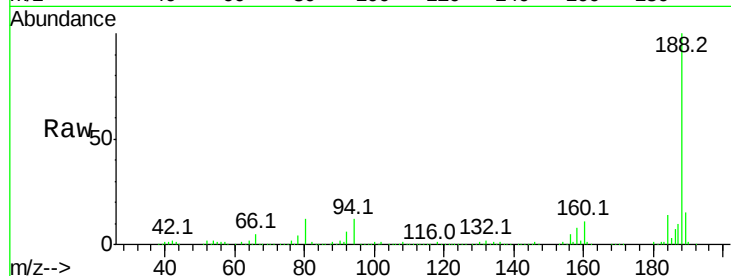




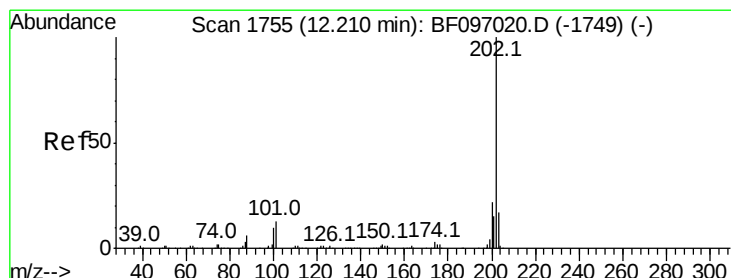
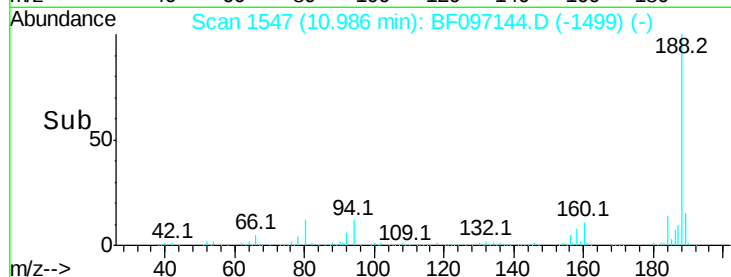
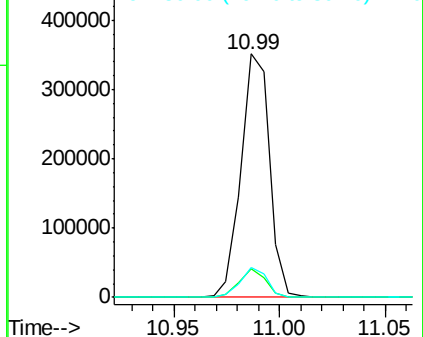
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 10.99 min Scan# 1547  
Delta R.T. -0.02 min  
Lab File: BF097144.D  
Acq: 28 Jul 2017 10:29

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-072517-C

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

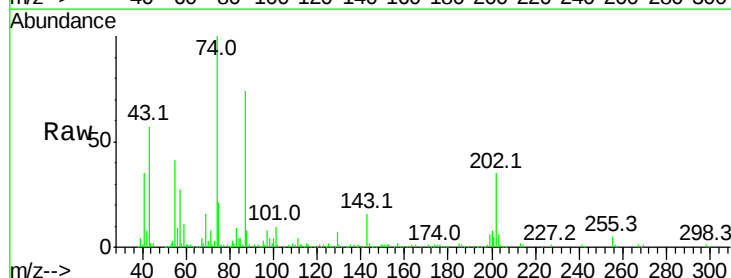


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

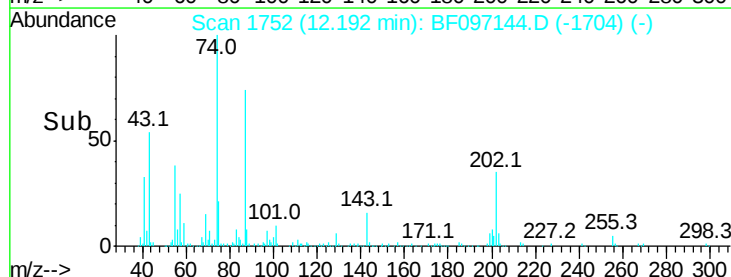
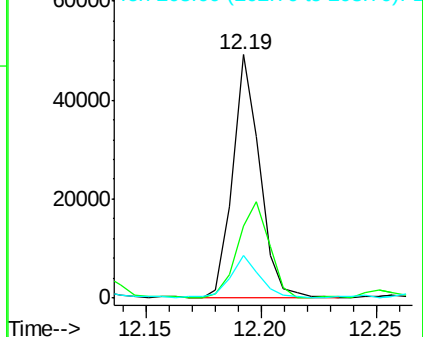


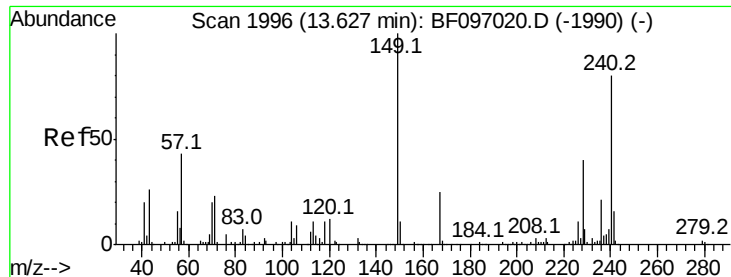
#74  
Fluoranthene  
Concen: 2.335 ng  
RT: 12.19 min Scan# 1752  
Delta R.T. -0.02 min  
Lab File: BF097144.D  
Acq: 28 Jul 2017 10:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 29.5  | 0.0   | 33.2  |
| 203     | 17.4  | 0.0   | 38.1  |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.61 min Scan# 1993

Delta R.T. -0.02 min

Lab File: BF097144.D

Acq: 28 Jul 2017 10:29

Instrument :

BNA\_F

ClientSampleId :

EO-02-072517-C

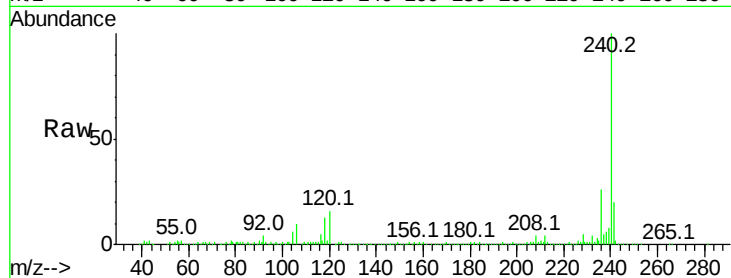
Tot Ion:240 Resp: 217094

Ion Ratio Lower Upper

240 100

120 16.0 5.8 8.8#

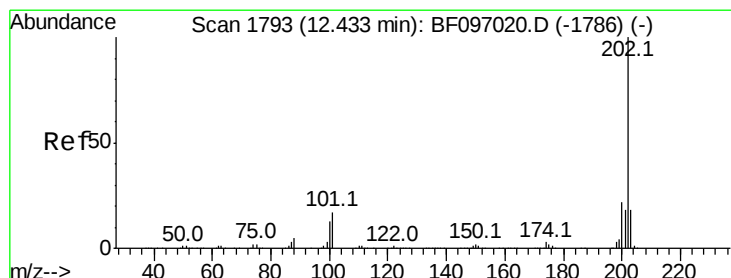
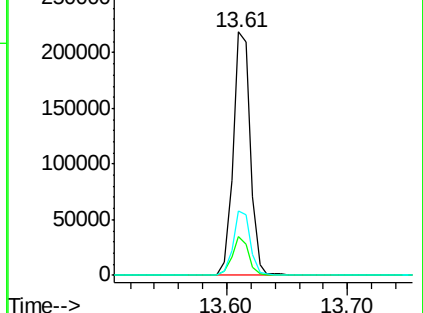
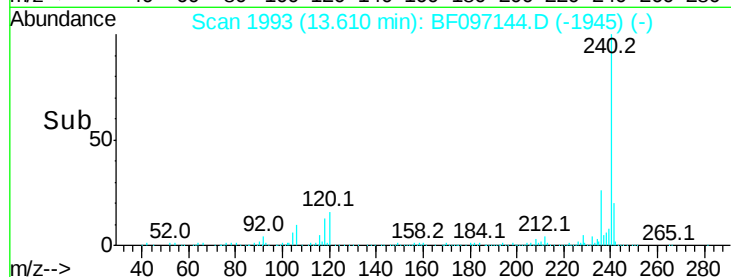
236 26.3 20.5 30.7



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



#77

Pyrene

Concen: 2.677 ng

RT: 12.42 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF097144.D

Acq: 28 Jul 2017 10:29

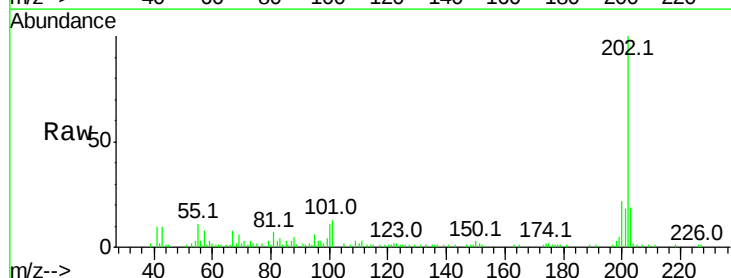
Tgt Ion:202 Resp: 47575

Ion Ratio Lower Upper

202 100

200 22.1 17.6 26.4

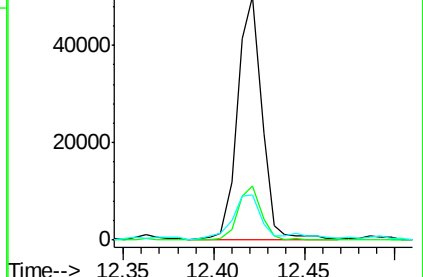
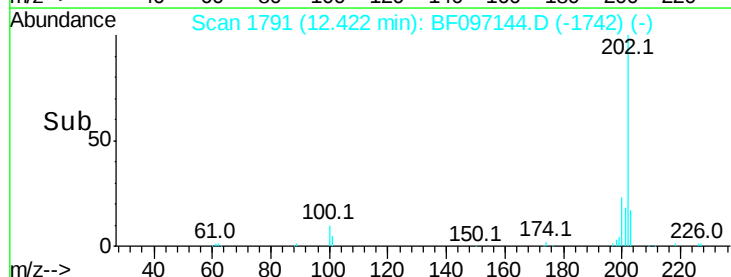
203 18.6 14.4 21.6

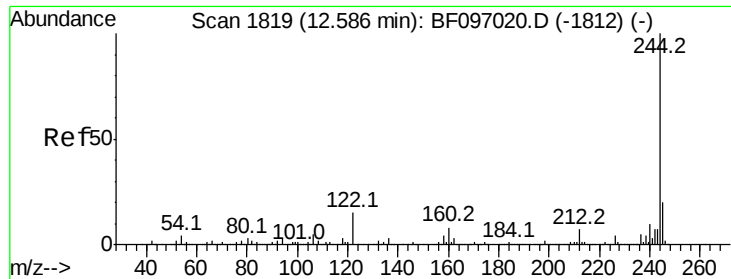


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 5.715 ng

RT: 12.57 min Scan# 1816

Delta R.T. -0.02 min

Lab File: BF097144.D

Acq: 28 Jul 2017 10:29

Instrument :

BNA\_F

ClientSampleId :

EO-02-072517-C

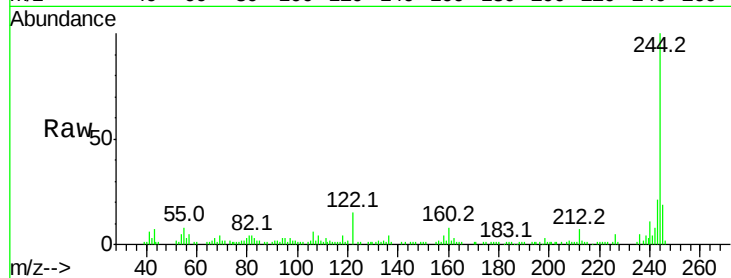
Tot Ion:244 Resp: 60856

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

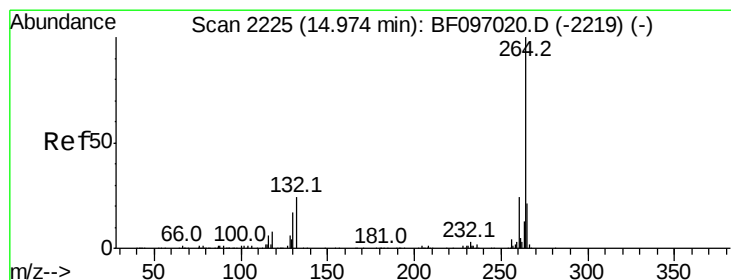
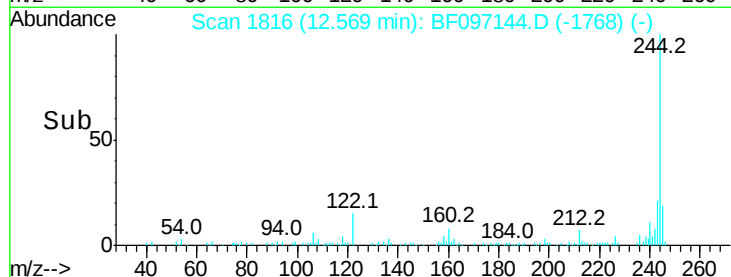
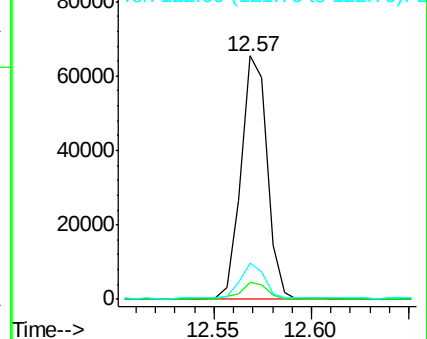
122 15.2 10.3 15.5



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

Perylene-d12

Concen: 20.000 ng

RT: 14.96 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BF097144.D

Acq: 28 Jul 2017 10:29

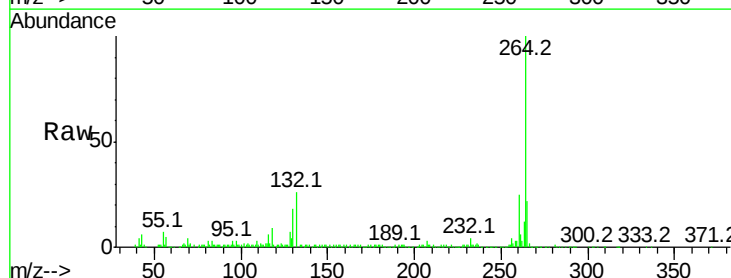
Tgt Ion:264 Resp: 199153

Ion Ratio Lower Upper

264 100

260 24.7 19.5 29.3

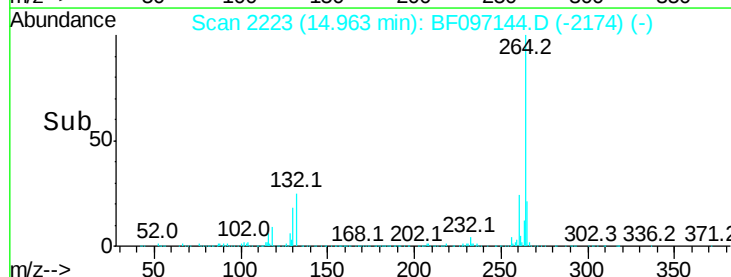
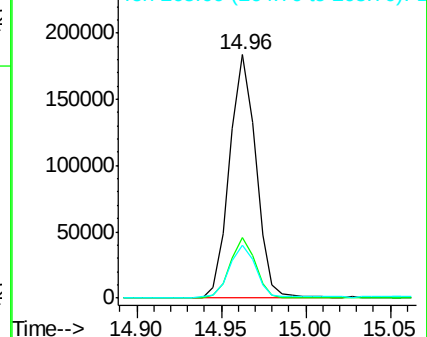
265 21.5 17.2 25.8

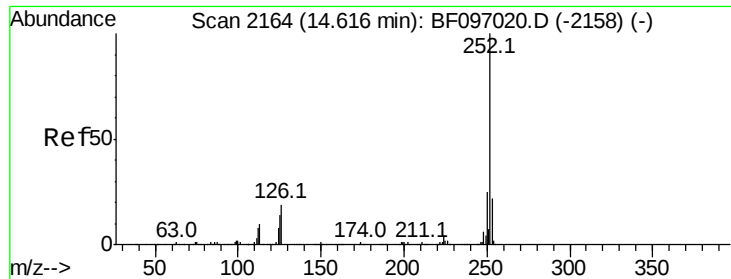


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

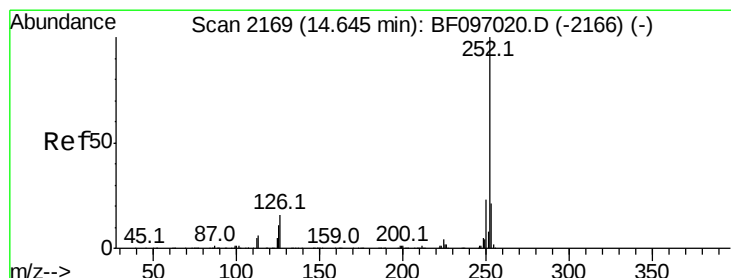
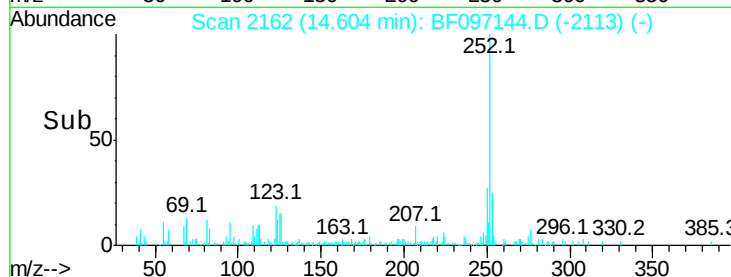
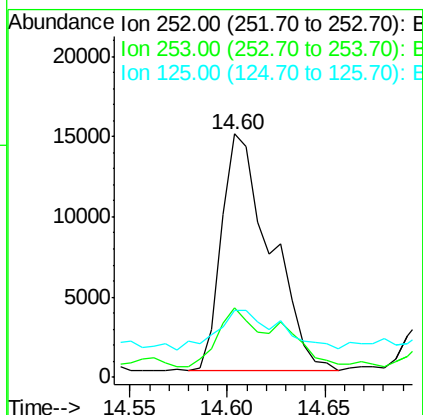
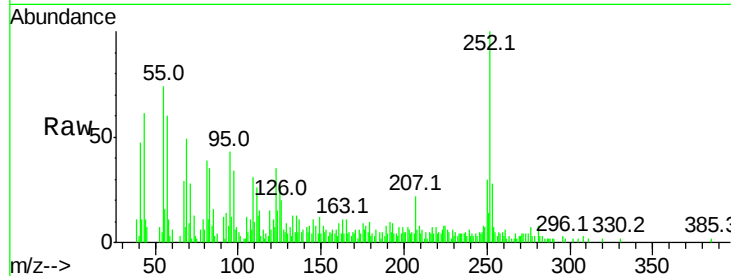




#87  
Benzo(b)fluoranthene  
Concen: 2.147 ng  
RT: 14.60 min Scan# 2162  
Delta R.T. -0.01 min  
Lab File: BF097144.D  
Acq: 28 Jul 2017 10:29

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-072517-C

Tot Ion:252 Resp: 25705  
Ion Ratio Lower Upper  
252 100  
253 28.4 18.1 27.1#  
125 27.3 9.8 14.8#



#88  
Benzo(k)fluoranthene  
Concen: 2.253 ng  
RT: 14.60 min Scan# 2162  
Delta R.T. -0.04 min  
Lab File: BF097144.D  
Acq: 28 Jul 2017 10:29

Tgt Ion:252 Resp: 25705  
Ion Ratio Lower Upper  
252 100  
253 28.4 18.4 27.6#  
125 27.3 13.1 19.7#

