

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\  
 Data File : BF097254.D  
 Acq On : 2 Aug 2017 5:09  
 Operator : SJ/JU  
 Sample : I4471-18 5X  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-L6-NSW

Manual Integrations  
 APPROVED

Sohil  
 8/2/2017 7:15:41 PM

Quant Time: Aug 02 07:11:47 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   | 6.46  | 152  | 85652    | 20.00 | ng    | -0.04       |
| 21) Naphthalene-d8          | 7.75  | 136  | 334665   | 20.00 | ng    | -0.04       |
| 38) Acenaphthene-d10        | 9.49  | 164  | 120263   | 20.00 | ng    | -0.04       |
| 63) Phenanthrene-d10        | 10.96 | 188  | 180709   | 20.00 | ng    | -0.04       |
| 75) Chrysene-d12            | 13.59 | 240  | 196946   | 20.00 | ng    | -0.04       |
| 86) Perylene-d12            | 14.93 | 264  | 143138   | 20.00 | ng    | -0.04       |
| System Monitoring Compounds |       |      |          |       |       |             |
| 5) 2-Fluorophenol           | 5.07  | 112  | 131682   | 23.18 | ng    | -0.03       |
| 7) Phenol-d6                | 6.13  | 99   | 160709   | 24.78 | ng    | -0.04       |
| 23) Nitrobenzene-d5         | 7.03  | 82   | 89627    | 15.71 | ng    | -0.05       |
| 41) 2,4,6-Tribromophenol    | 10.28 | 330  | 20445    | 21.52 | ng    | -0.04       |
| 44) 2-Fluorobiphenyl        | 8.82  | 172  | 101746   | 14.36 | ng    | -0.05       |
| 78) Terphenyl-d14           | 12.55 | 244  | 67875    | 7.03  | ng    | -0.04       |
| Target Compounds            |       |      |          |       |       |             |
| 49) Dimethylphthalate       | 9.23  | 163  | 19140    | 2.096 | ng    | Qvalue # 96 |
| 70) Phenanthrene            | 10.99 | 178  | 45314    | 4.680 | ng    | 95          |
| 74) Fluoranthene            | 12.17 | 202  | 49724    | 5.242 | ng    | 99          |
| 77) Pyrene                  | 12.39 | 202  | 54297    | 3.368 | ng    | 98          |

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

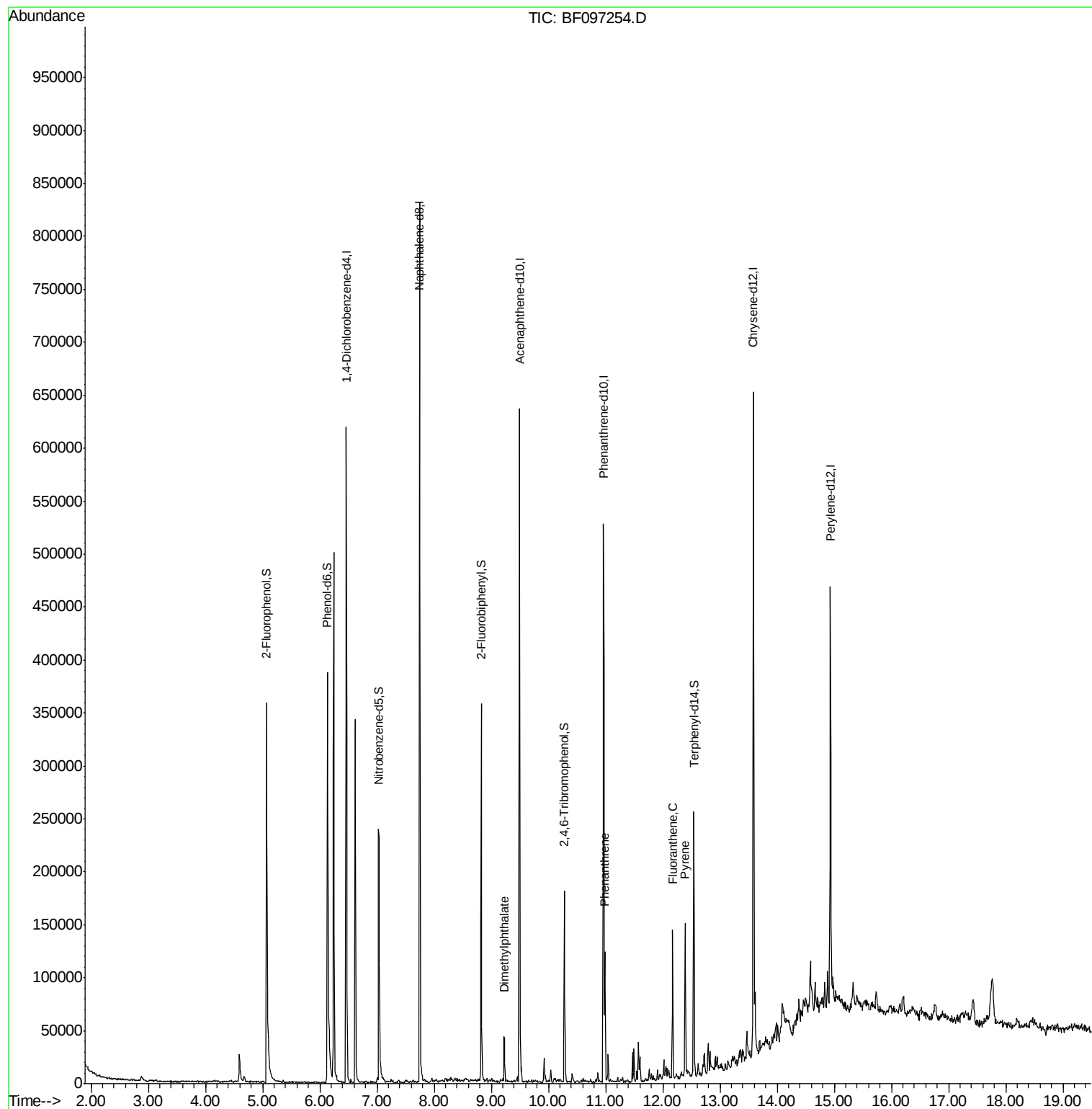
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\  
Data File : BF097254.D  
Acq On : 2 Aug 2017 5:09  
Operator : SJ/JU  
Sample : I4471-18 5X  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

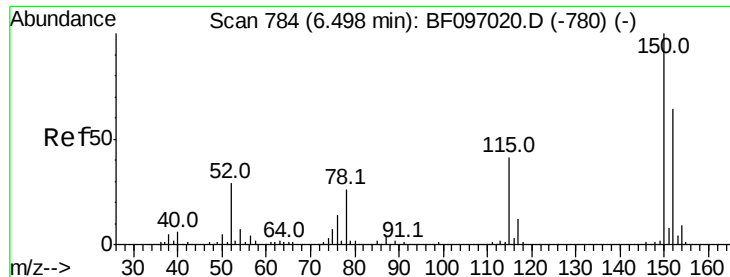
Instrument :  
BNA\_F  
ClientSampleId :  
E2-L6-NSW

Manual Integrations  
APPROVED

Sohil  
8/2/2017 7:15:41 PM

Quant Time: Aug 02 07:11:47 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





#1

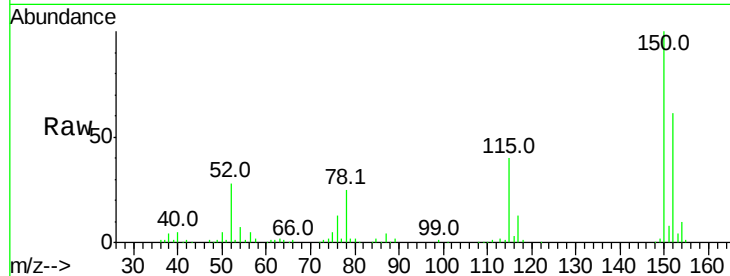
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.46 min Scan# 778  
Delta R.T. -0.04 min  
Lab File: BF097254.D  
Acq: 2 Aug 2017 5:09

Instrument :  
BNA\_F  
ClientSampleId :  
E2-L6-NSW

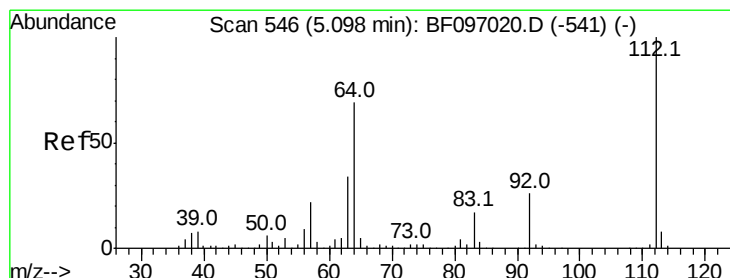
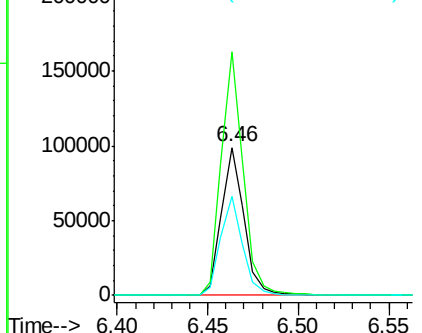
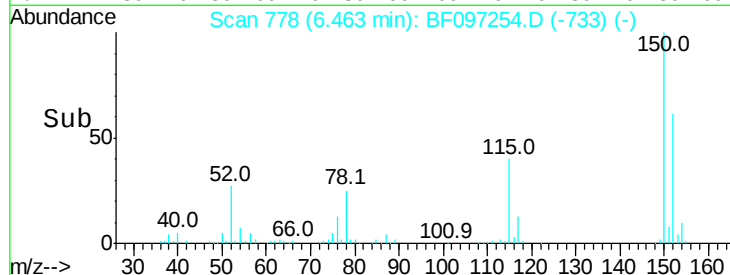
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 164.6 | 126.2 | 189.2 |
| 115     | 66.6  | 52.2  | 78.2  |

Manual Integrations  
APPROVED

Sohil  
8/2/2017 7:15:41 PM



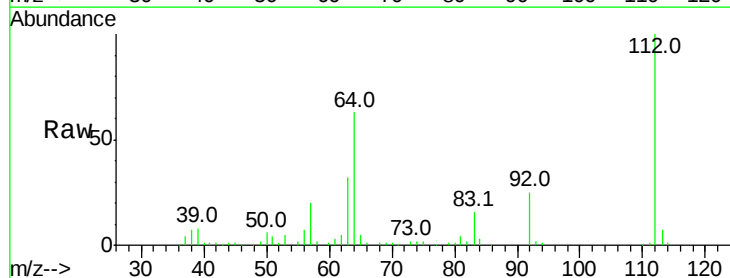
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



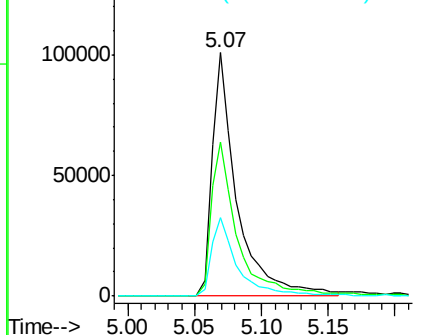
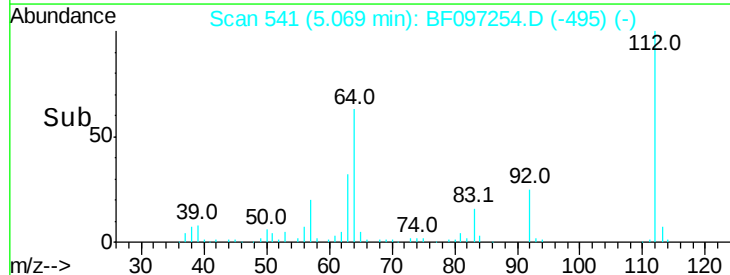
#5

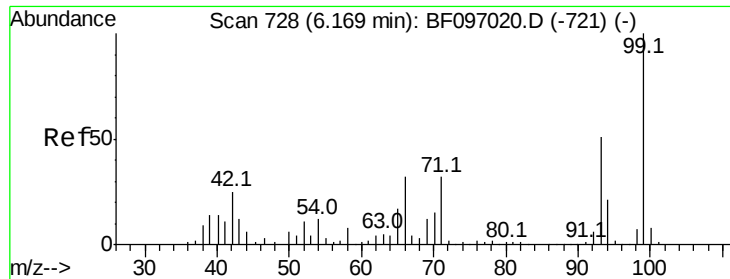
2-Fluorophenol  
Concen: 23.176 ng  
RT: 5.07 min Scan# 541  
Delta R.T. -0.03 min  
Lab File: BF097254.D  
Acq: 2 Aug 2017 5:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.5  | 46.0  | 69.0  |
| 63      | 32.1  | 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: 24.776 ng

RT: 6.13 min Scan# 722

Delta R.T. -0.04 min

Lab File: BF097254.D

Acq: 2 Aug 2017 5:09

Instrument :

BNA\_F

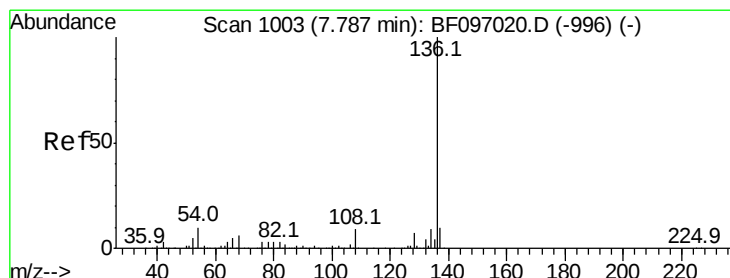
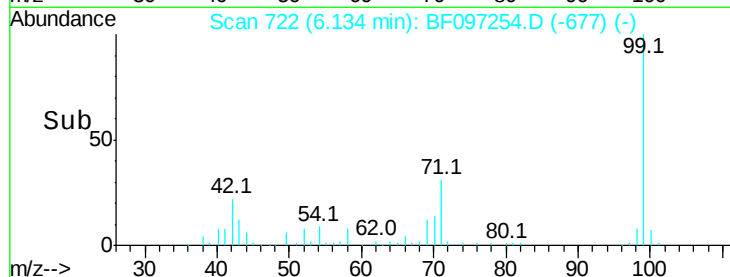
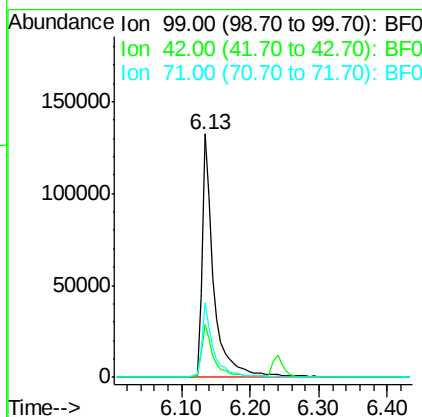
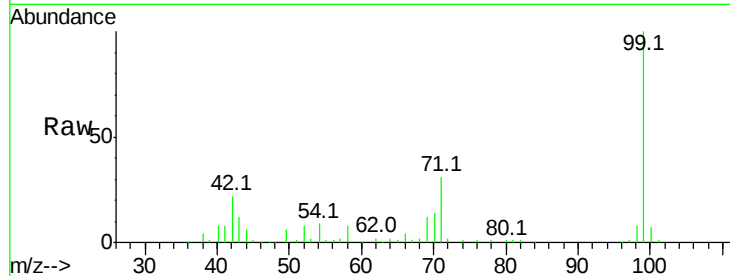
ClientSampled :

E2-L6-NSW

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 160709 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 21.9  | 13.5  | 20.3#  |
| 71        | 30.9  | 24.5  | 36.7   |

Manual Integrations  
APPROVED

Sohil  
8/2/2017 7:15:41 PM



#21

Naphthalene-d8

Concen: 20.000 ng

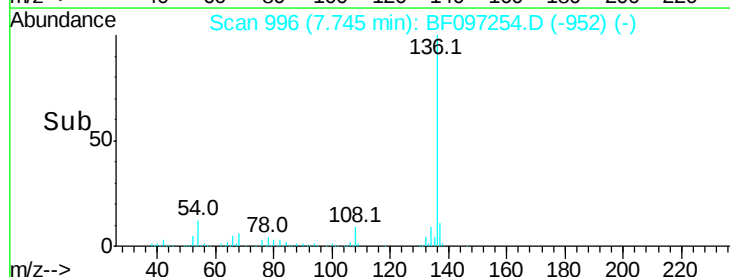
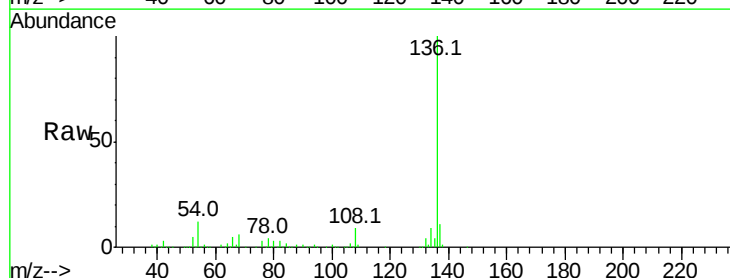
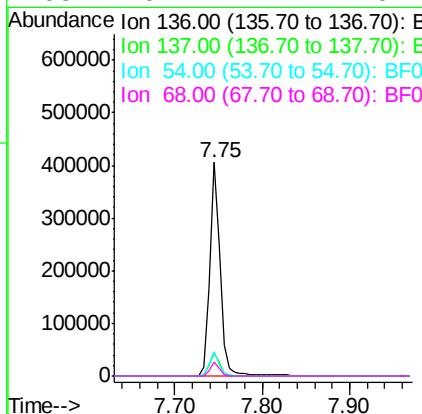
RT: 7.75 min Scan# 996

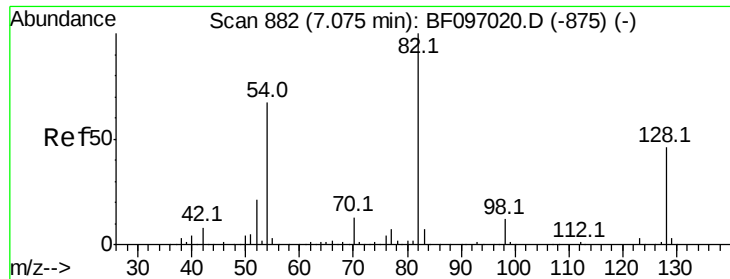
Delta R.T. -0.04 min

Lab File: BF097254.D

Acq: 2 Aug 2017 5:09

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 334665 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 8.5   | 12.7   |
| 54        | 11.7  | 4.9   | 7.3#   |
| 68        | 6.4   | 4.1   | 6.1#   |





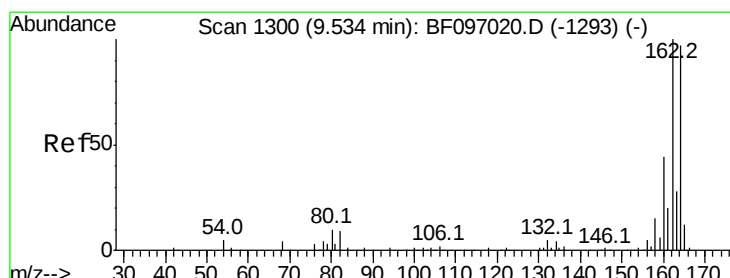
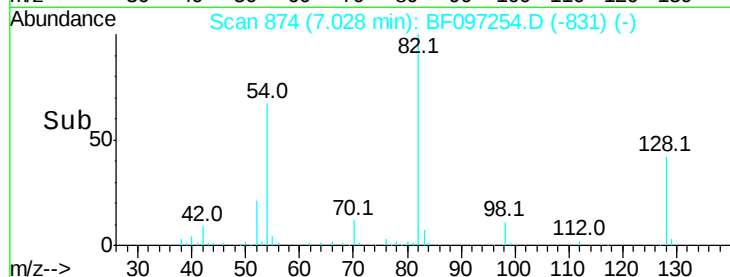
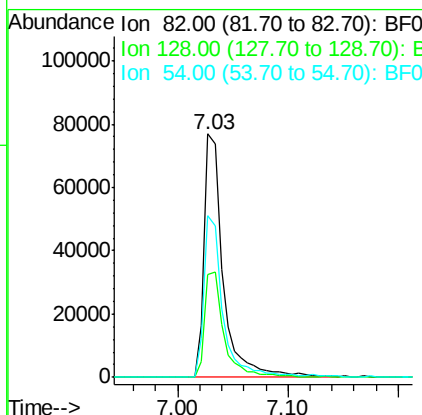
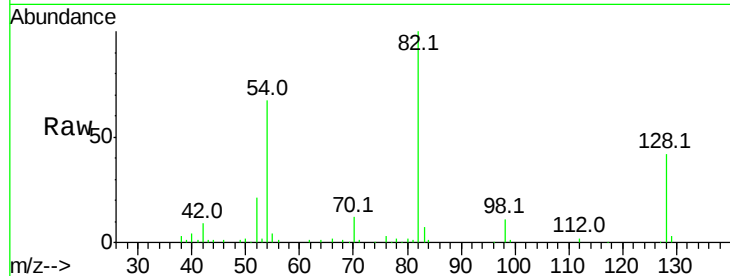
#23  
 Nitrobenzene-d5  
 Concen: 15.711 ng  
 RT: 7.03 min Scan# 874  
 Delta R.T. -0.05 min  
 Lab File: BF097254.D  
 Acq: 2 Aug 2017 5:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-L6-NSW

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 42.4  | 34.0 | 51.0  |       |
| 54      | 66.6  | 42.2 | 63.2  |       |

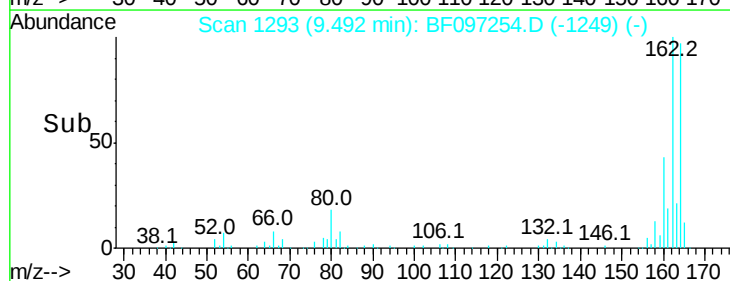
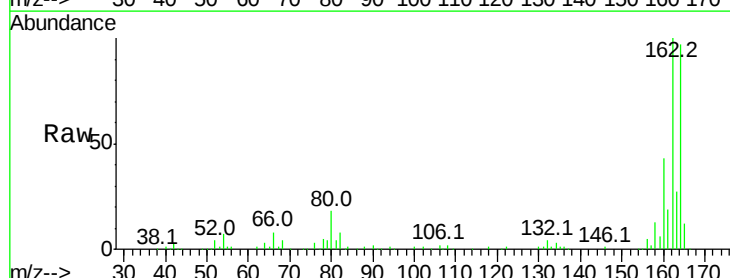
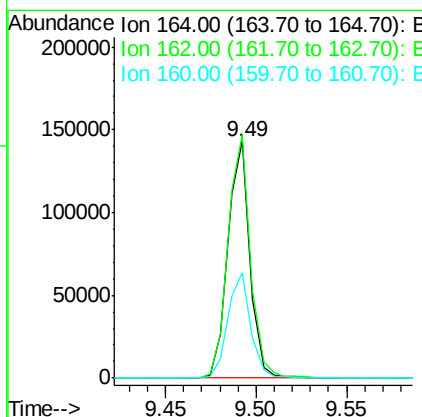
Manual Integrations  
 APPROVED

Sohil  
 8/2/2017 7:15:41 PM



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.49 min Scan# 1293  
 Delta R.T. -0.04 min  
 Lab File: BF097254.D  
 Acq: 2 Aug 2017 5:09

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 102.9 | 82.6 | 123.8 |       |
| 160     | 44.7  | 36.2 | 54.2  |       |





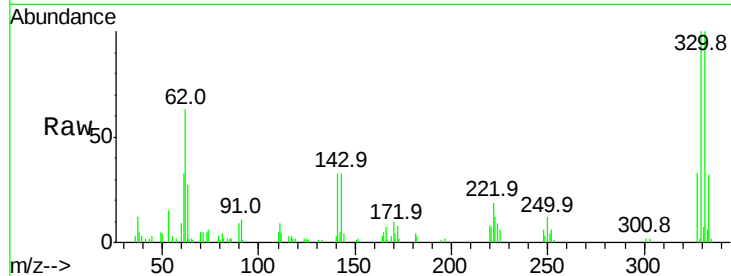
#41  
 2,4,6-Tribromophenol  
 Concen: 21.517 ng  
 RT: 10.28 min Scan# 1427  
 Delta R.T. -0.04 min  
 Lab File: BF097254.D  
 Acq: 2 Aug 2017 5:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-L6-NSW

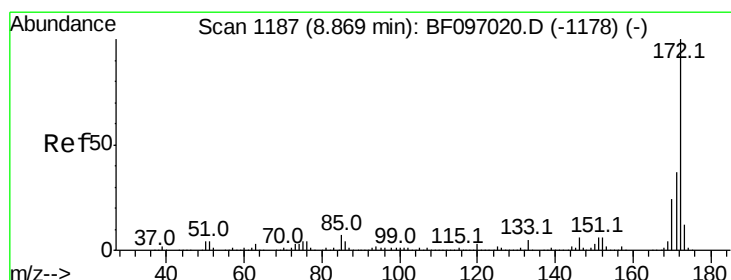
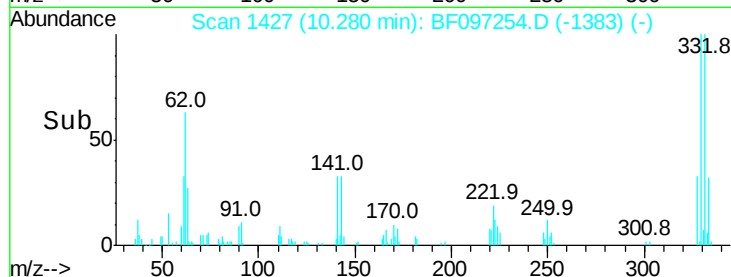
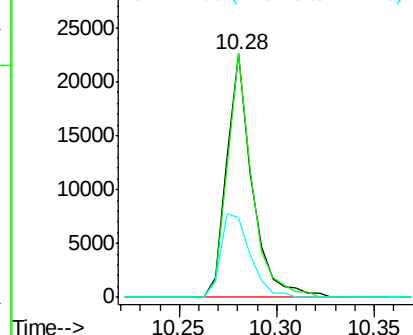
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.9  | 76.6  | 115.0 |
| 141     | 40.0  | 31.4  | 47.2  |

Manual Integrations  
 APPROVED

Sohil  
 8/2/2017 7:15:41 PM

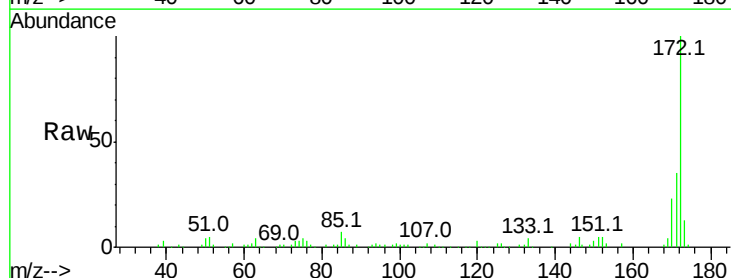


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

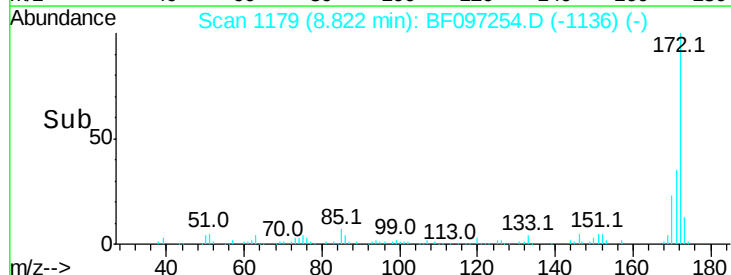
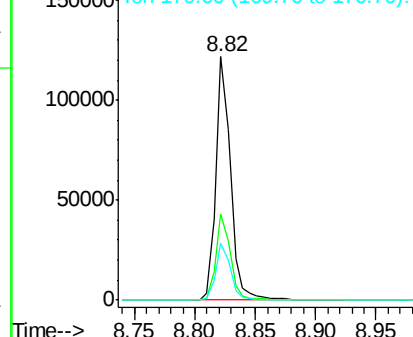


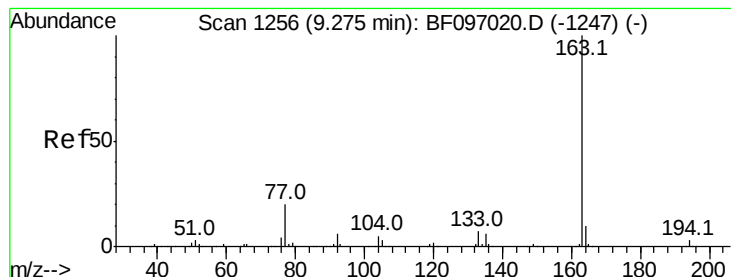
#44  
 2-Fluorobiphenyl  
 Concen: 14.358 ng  
 RT: 8.82 min Scan# 1179  
 Delta R.T. -0.05 min  
 Lab File: BF097254.D  
 Acq: 2 Aug 2017 5:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.2  | 29.6  | 44.4  |
| 170     | 23.3  | 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: 2.096 ng

RT: 9.23 min Scan# 1248

Delta R.T. -0.05 min

Lab File: BF097254.D

Acq: 2 Aug 2017 5:09

Instrument :

BNA\_F

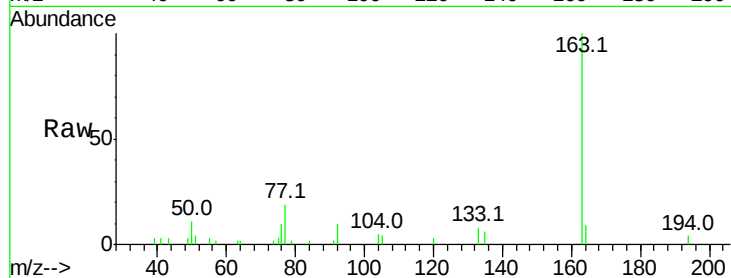
ClientSampled :

E2-L6-NSW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.2   | 2.6   | 4.0#  |
| 164     | 8.9   | 8.4   | 12.6  |

Manual Integrations  
APPROVED

Sohil  
8/2/2017 7:15:41 PM

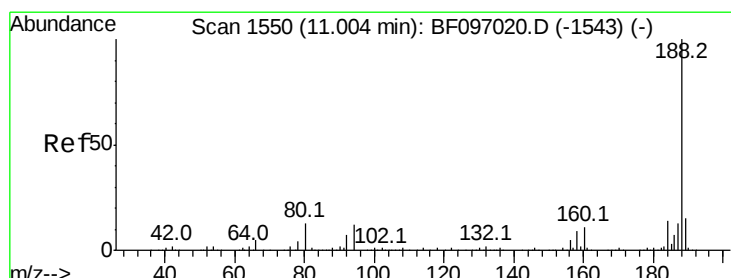
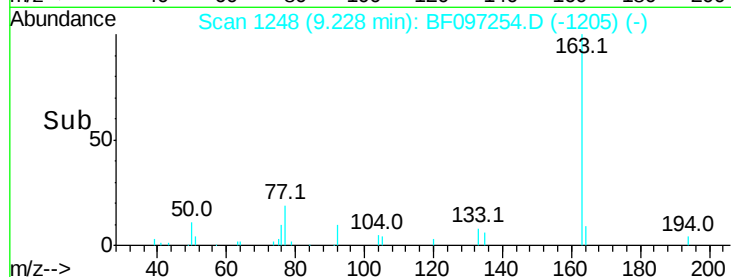
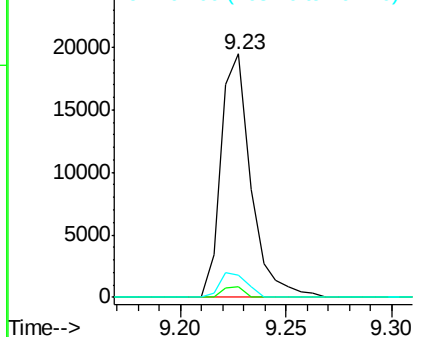


Abundance

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



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 10.96 min Scan# 1543

Delta R.T. -0.04 min

Lab File: BF097254.D

Acq: 2 Aug 2017 5:09

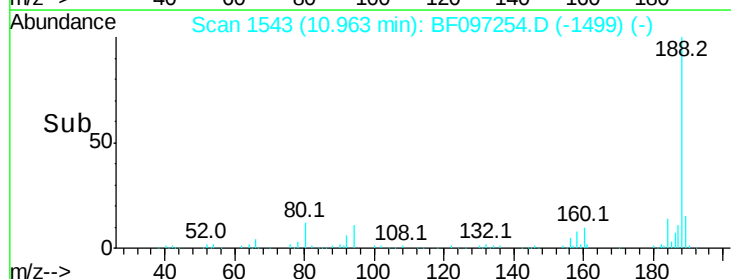
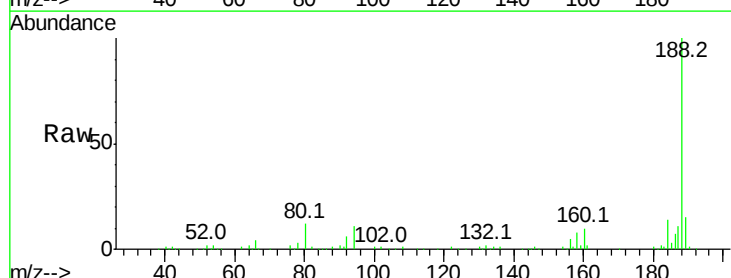
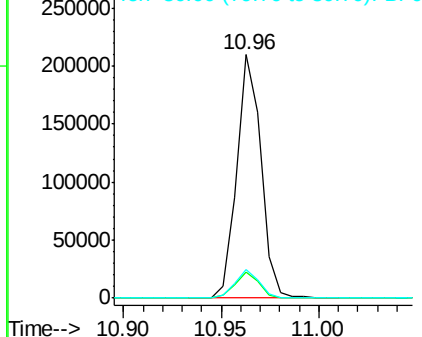
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.9  | 9.4   | 14.2  |
| 80      | 12.0  | 10.2  | 15.2  |

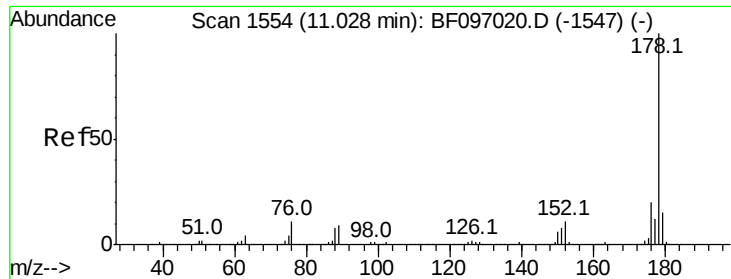
Abundance

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





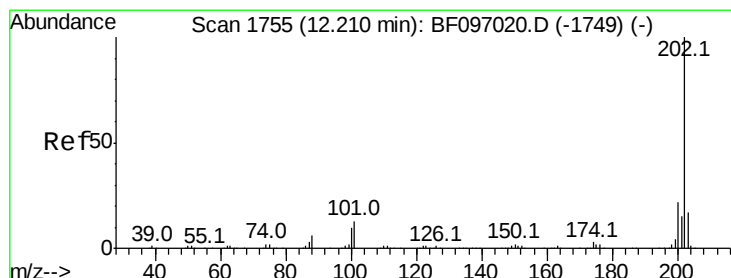
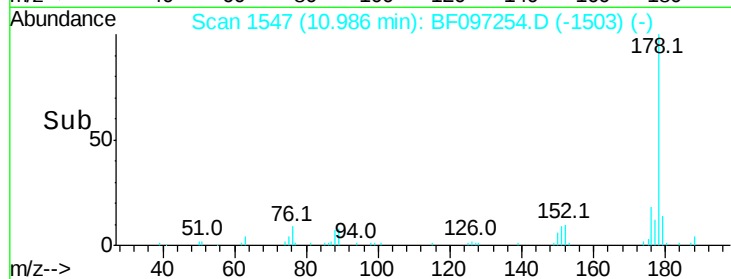
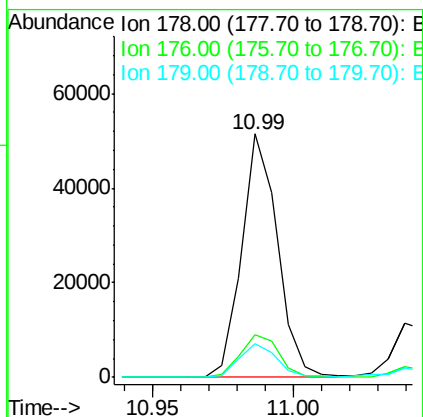
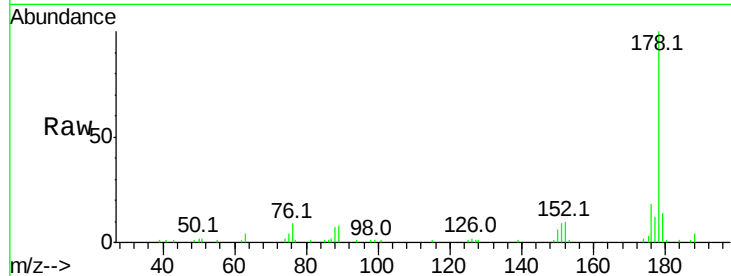
#70  
Phenanthrene  
Concen: 4.680 ng  
RT: 10.99 min Scan# 1547  
Delta R.T. -0.04 min  
Lab File: BF097254.D  
Acq: 2 Aug 2017 5:09

Instrument :  
BNA\_F  
ClientSampleId :  
E2-L6-NSW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.7  | 16.2  | 24.4  |
| 179     | 14.0  | 12.6  | 19.0  |

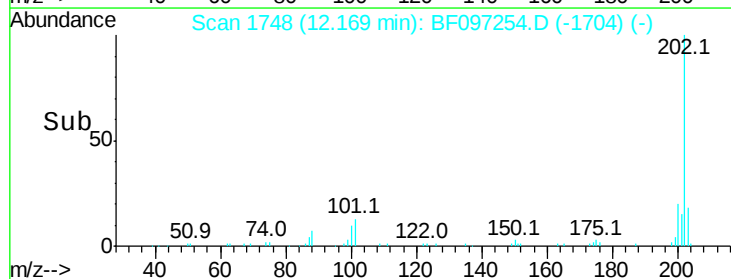
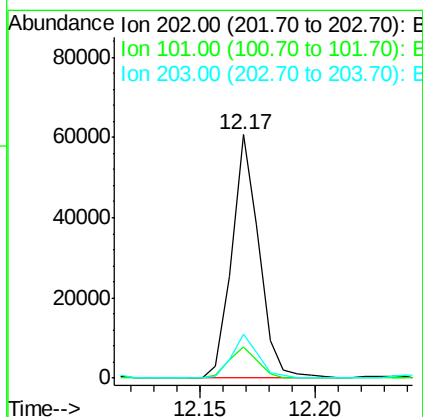
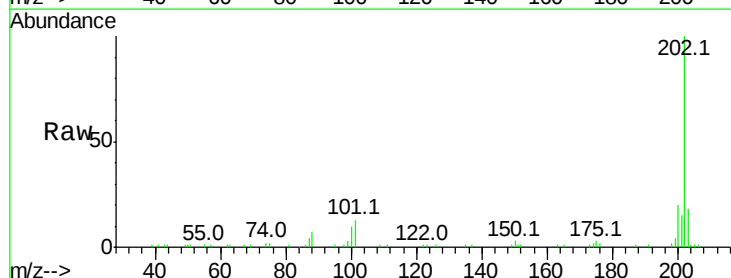
Manual Integrations  
APPROVED

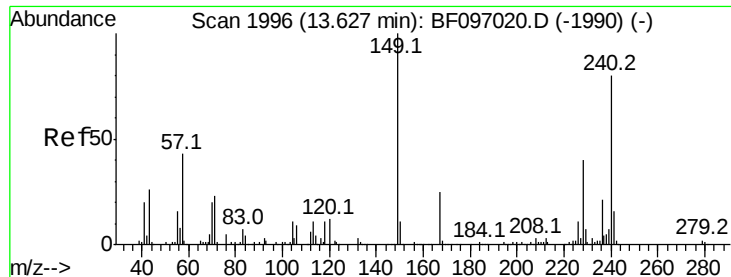
Sohil  
8/2/2017 7:15:41 PM



#74  
Fluoranthene  
Concen: 5.242 ng  
RT: 12.17 min Scan# 1748  
Delta R.T. -0.04 min  
Lab File: BF097254.D  
Acq: 2 Aug 2017 5:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.6  | 0.0   | 33.2  |
| 203     | 17.9  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.59 min Scan# 1989

Delta R.T. -0.04 min

Lab File: BF097254.D

Acq: 2 Aug 2017 5:09

Instrument :

BNA\_F

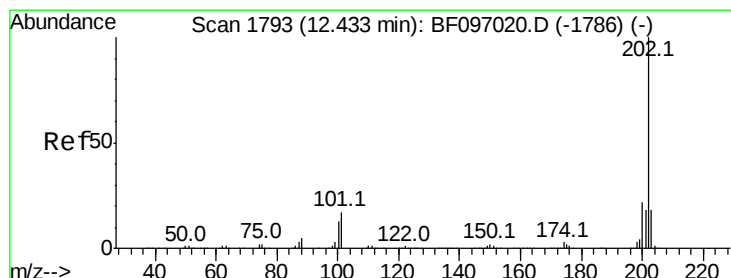
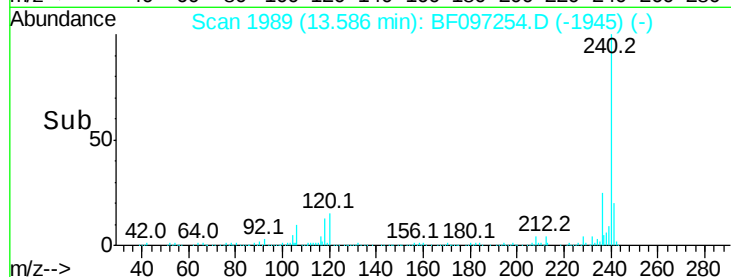
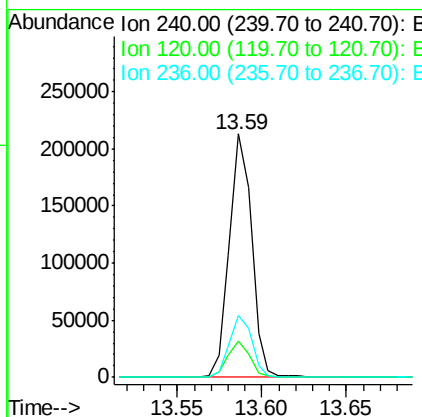
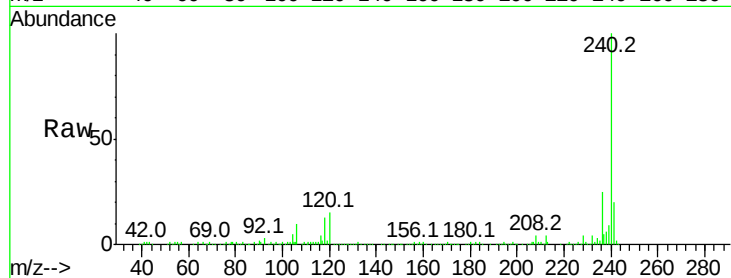
ClientSampled :

E2-L6-NSW

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 196946 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 15.1  | 5.8   | 8.8#   |
| 236       | 25.4  | 20.5  | 30.7   |

Manual Integrations  
APPROVED

Sohil  
8/2/2017 7:15:41 PM



#77

Pyrene

Concen: 3.368 ng

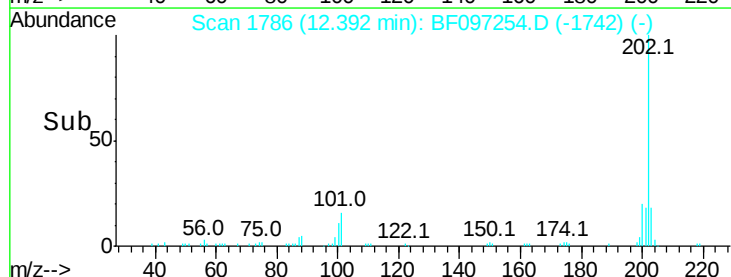
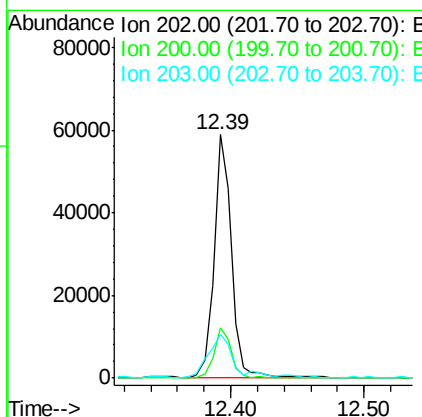
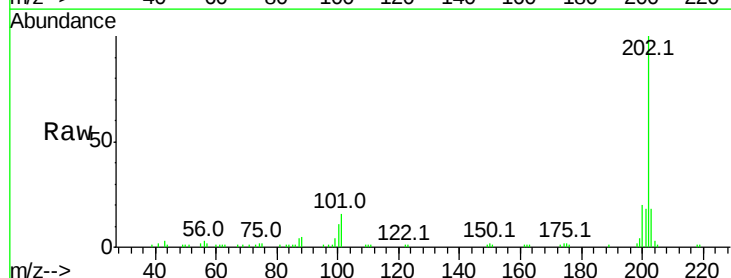
RT: 12.39 min Scan# 1786

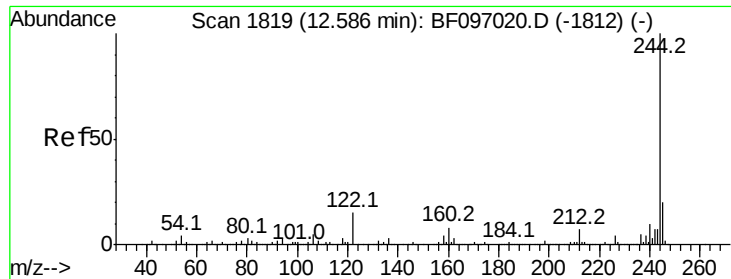
Delta R.T. -0.04 min

Lab File: BF097254.D

Acq: 2 Aug 2017 5:09

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 54297 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.5  | 17.6  | 26.4  |
| 203       | 18.0  | 14.4  | 21.6  |





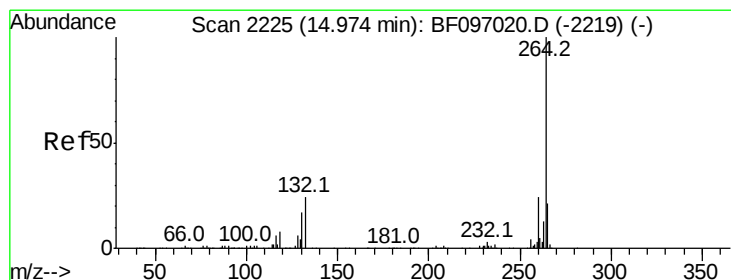
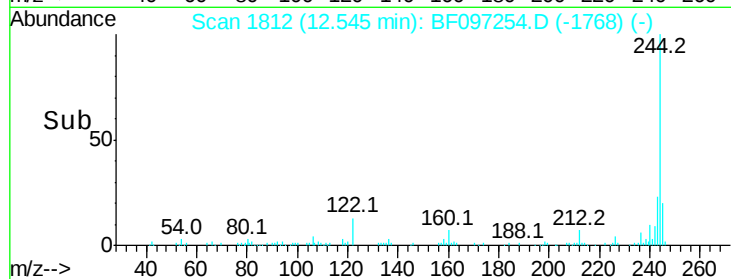
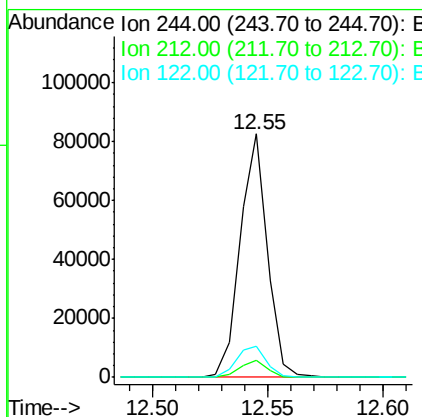
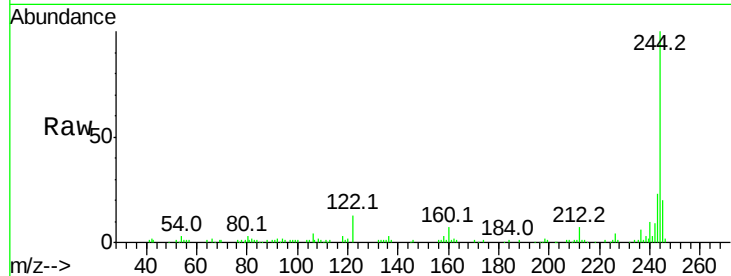
#78  
 Terphenyl-d14  
 Concen: 7.027 ng  
 RT: 12.55 min Scan# 1812  
 Delta R.T. -0.04 min  
 Lab File: BF097254.D  
 Acq: 2 Aug 2017 5:09

Instrument :  
 BNA\_F  
 ClientSampled :  
 E2-L6-NSW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 6.0   | 9.0   |
| 122     | 12.6  | 10.3  | 15.5  |

Manual Integrations  
 APPROVED

Sohil  
 8/2/2017 7:15:41 PM



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 14.93 min Scan# 2218  
 Delta R.T. -0.04 min  
 Lab File: BF097254.D  
 Acq: 2 Aug 2017 5:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.1  | 19.5  | 29.3  |
| 265     | 20.6  | 17.2  | 25.8  |

