

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE101217\  
 Data File : BE094316.D  
 Acq On : 12 Oct 2017 17:08  
 Operator : SJ/JU  
 Sample : PB103176BL  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 50

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB103176BL

Quant Time: Oct 13 16:36:02 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE100617.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 06 15:16:13 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.92  | 152  | 82998    | 20.00 | ng    | 0.01     |
| 7) Naphthalene-d8         | 10.71 | 136  | 423044   | 20.00 | ng    | 0.02     |
| 13) Acenaphthene-d10      | 14.53 | 164  | 224471   | 20.00 | ng    | 0.02     |
| 19) Phenanthrene-d10      | 17.24 | 188  | 326362   | 20.00 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.43 | 240  | 476524   | 20.00 | ng    | 0.02     |
| 34) Perylene-d12          | 23.96 | 264  | 469436   | 20.00 | ng    | 0.04     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 4) 2-Fluorophenol           | 5.51  | 112  | 726739   | 131.38 | ng    | 0.01     |
| 5) Phenol-d6                | 7.11  | 99   | 1072537  | 133.74 | ng    | 0.02     |
| 8) Nitrobenzene-d5          | 9.06  | 82   | 678614   | 96.33  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.29 | 152  | 30       | 0.00   | ng    | 0.02     |
| 14) 2,4,6-Tribromophenol    | 16.03 | 330  | 202233   | 103.62 | ng    | 0.03     |
| 15) 2-Fluorobiphenyl        | 13.15 | 172  | 1327570  | 86.32  | ng    | 0.02     |
| 25) Fluoranthene-d10        | 19.30 | 212  | 88       | 0.00   | ng    | 0.03     |
| 29) Terphenyl-d14           | 19.87 | 244  | 1450593  | 80.60  | ng    | 0.01     |

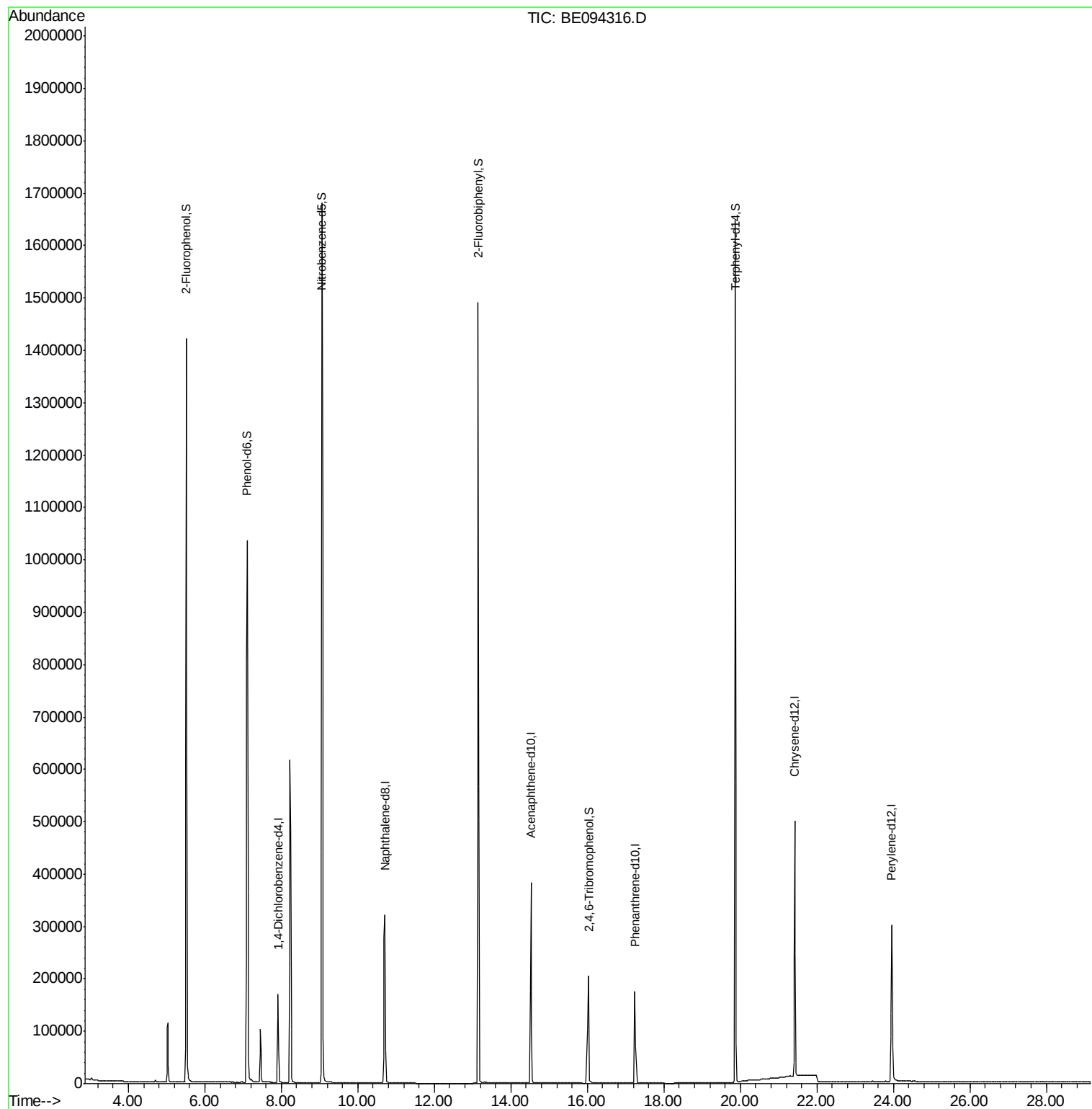
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

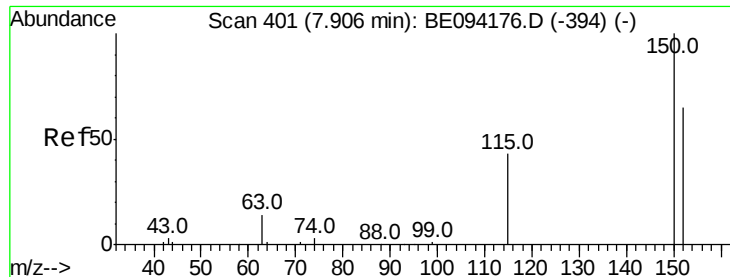
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE101217\  
Data File : BE094316.D  
Acq On : 12 Oct 2017 17:08  
Operator : SJ/JU  
Sample : PB103176BL  
Misc :  
ALS Vial : 7 Sample Multiplier: 50

Instrument :  
BNA\_E  
ClientSampleId :  
PB103176BL

Quant Time: Oct 13 16:36:02 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE100617.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 06 15:16:13 2017  
Response via : Initial Calibration



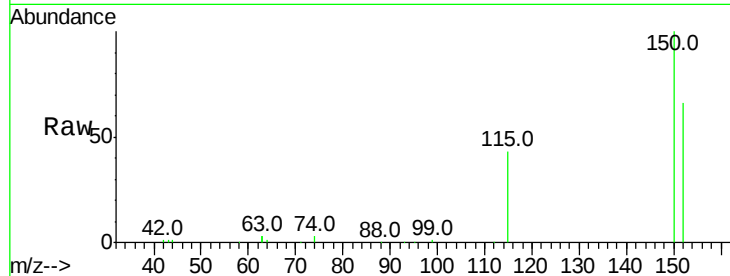


#1

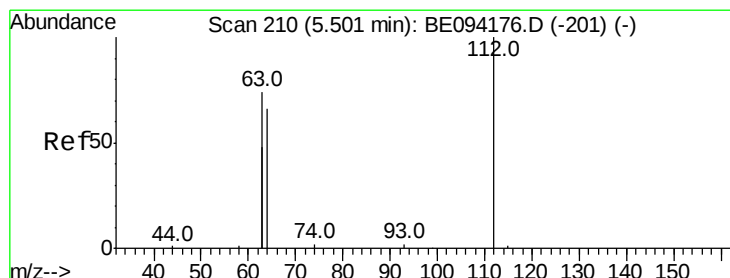
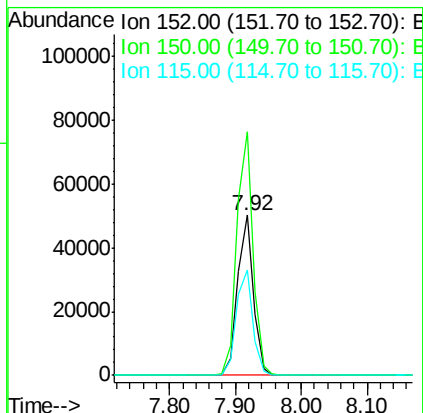
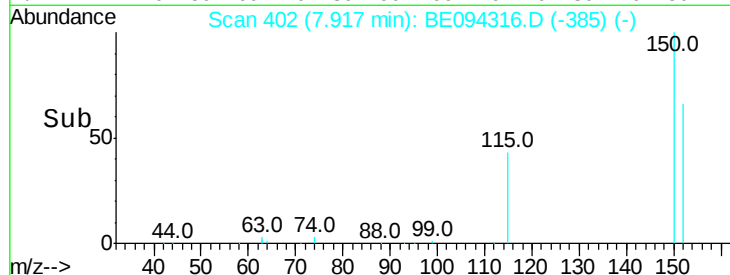
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.92 min Scan# 402  
Delta R.T. 0.01 min  
Lab File: BE094316.D  
Acq: 12 Oct 2017 17:08

Instrument :  
BNA\_E  
ClientSampleId :  
PB103176BL

Tot Ion:152 Resp: 82998  
Ion Ratio Lower Upper  
152 100  
150 152.0 117.2 175.8  
115 65.7 57.0 85.6



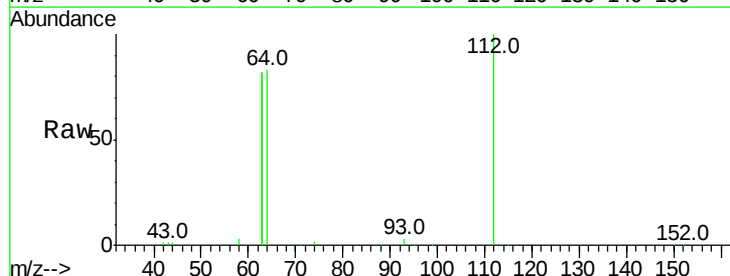
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



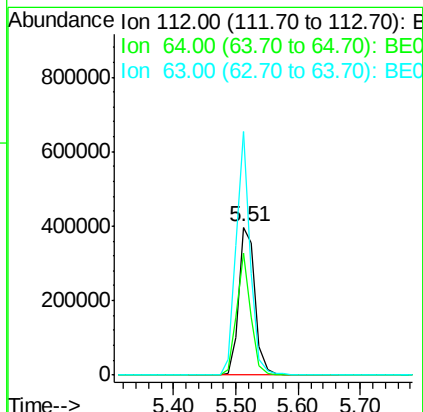
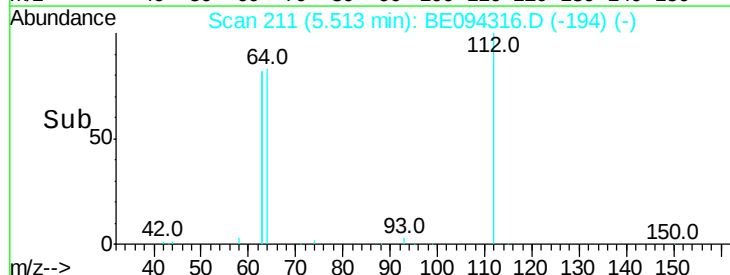
#4

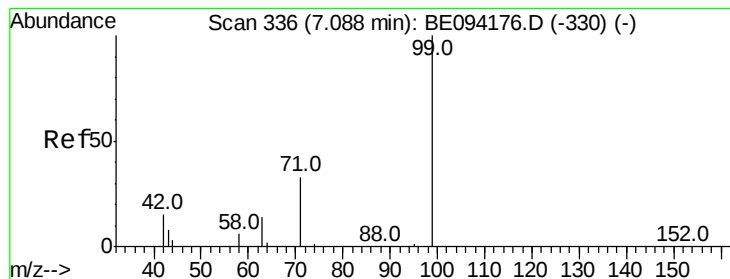
2-Fluorophenol  
Concen: 131.377 ng  
RT: 5.51 min Scan# 211  
Delta R.T. 0.01 min  
Lab File: BE094316.D  
Acq: 12 Oct 2017 17:08

Tgt Ion:112 Resp: 726739  
Ion Ratio Lower Upper  
112 100  
64 72.1 60.1 90.1  
63 143.9 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BE0  
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 133.743 ng

RT: 7.11 min Scan# 338

Delta R.T. 0.02 min

Lab File: BE094316.D

Acq: 12 Oct 2017 17:08

Instrument :

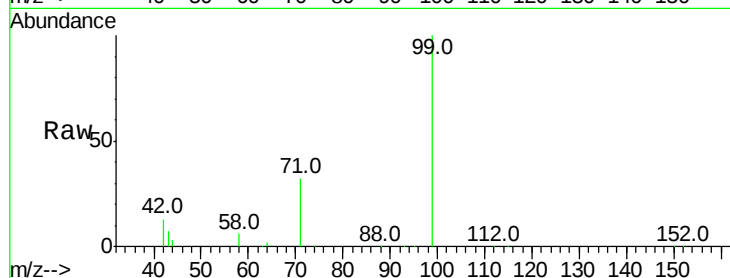
BNA\_E

ClientSampleId :

PB103176BL

Tot Ion: 99 Resp: 1072537

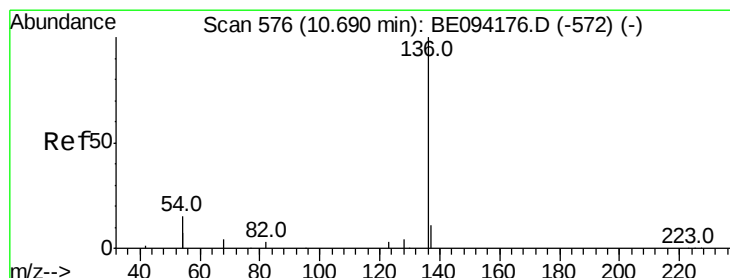
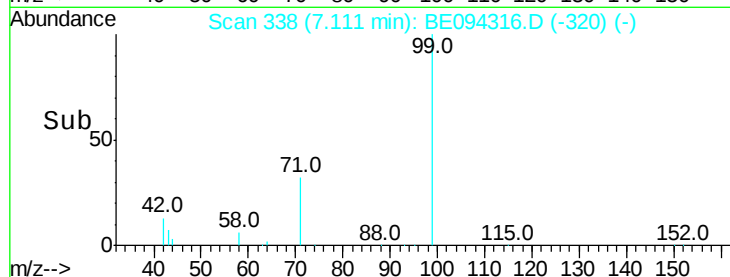
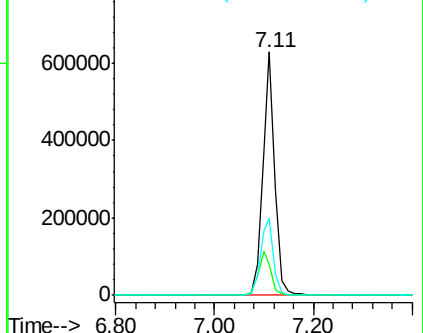
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.4  | 20.2  | 30.2# |
| 71  | 34.2  | 28.4  | 42.6  |



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 20.000 ng

RT: 10.71 min Scan# 577

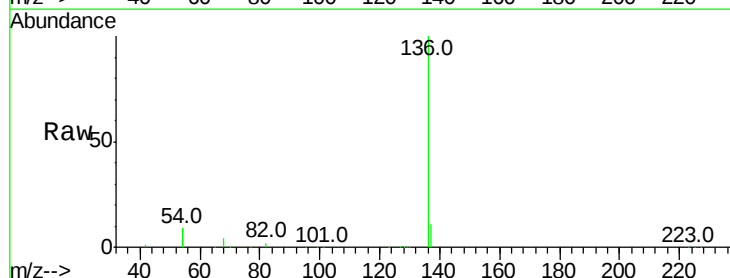
Delta R.T. 0.02 min

Lab File: BE094316.D

Acq: 12 Oct 2017 17:08

Tgt Ion: 136 Resp: 423044

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.1  | 9.5   | 14.3  |
| 54  | 18.5  | 29.1  | 43.7# |
| 68  | 4.0   | 6.2   | 9.2#  |

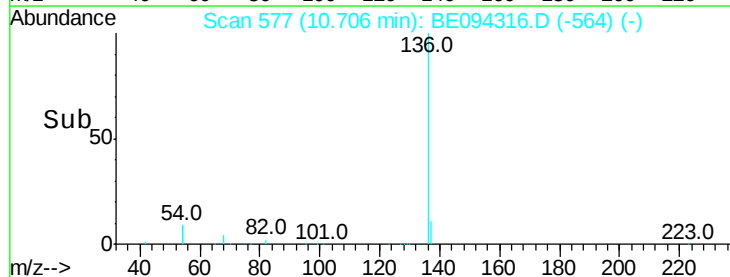
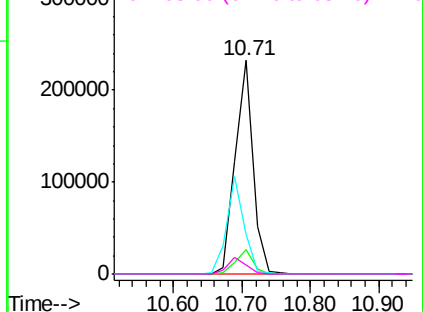


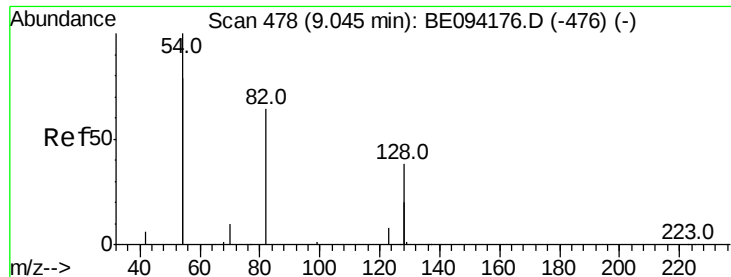
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 96.334 ng

RT: 9.06 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE094316.D

Acq: 12 Oct 2017 17:08

Instrument :

BNA\_E

ClientSampleId :

PB103176BL

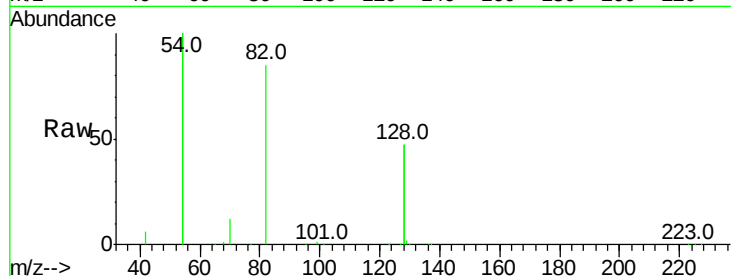
Tot Ion: 82 Resp: 678614

Ion Ratio Lower Upper

82 100

128 110.8 150.0 225.0#

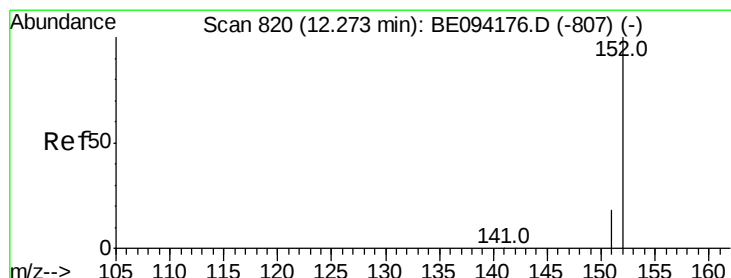
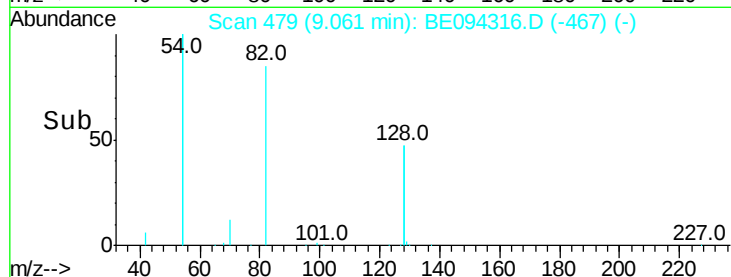
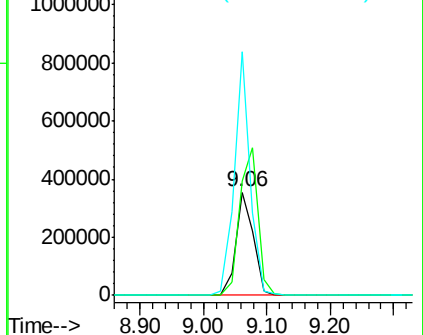
54 235.3 154.2 231.4#



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#11

2-Methylnaphthalene-d10

Concen: 0.002 ng

RT: 12.29 min Scan# 825

Delta R.T. 0.02 min

Lab File: BE094316.D

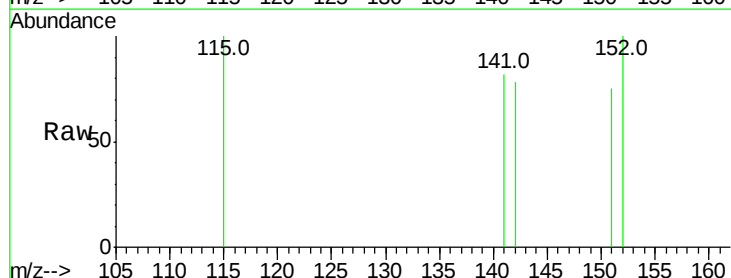
Acq: 12 Oct 2017 17:08

Tgt Ion: 152 Resp: 30

Ion Ratio Lower Upper

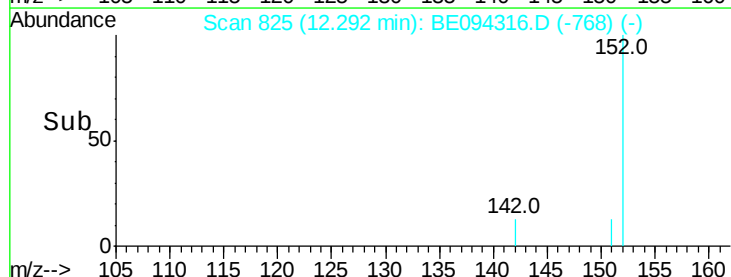
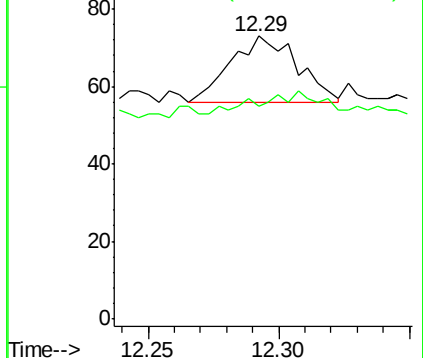
152 100

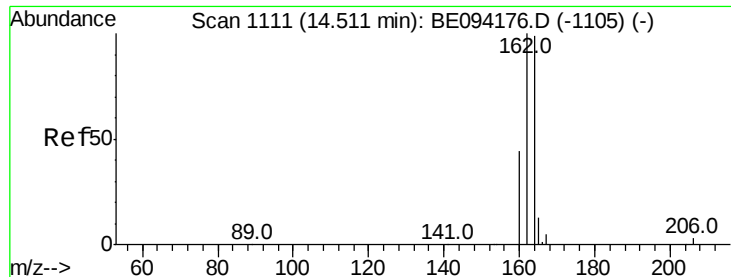
151 13.3 15.4 23.0#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

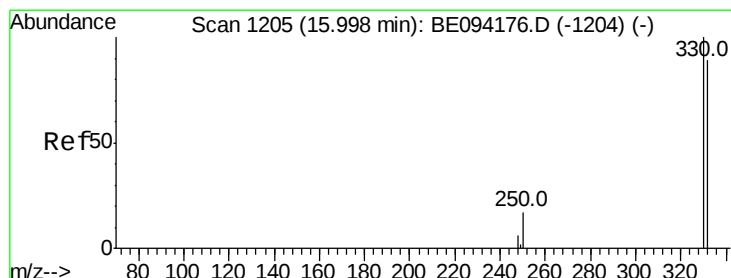
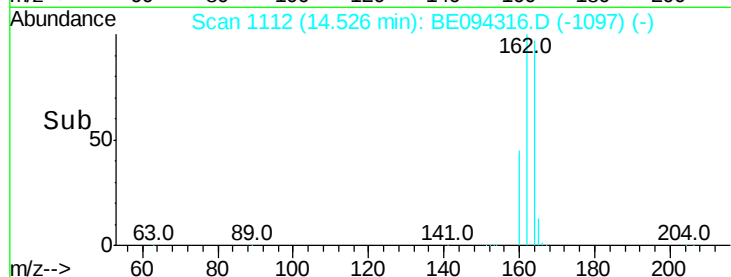
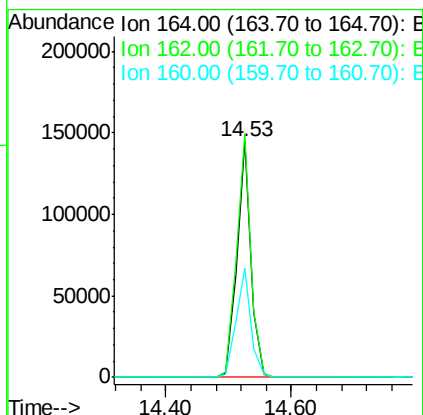
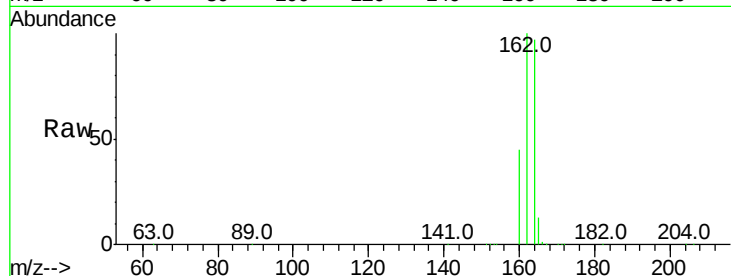




#13  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.53 min Scan# 1112  
 Delta R.T. 0.02 min  
 Lab File: BE094316.D  
 Acq: 12 Oct 2017 17:08

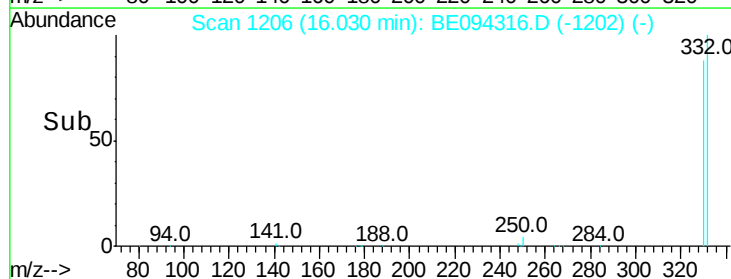
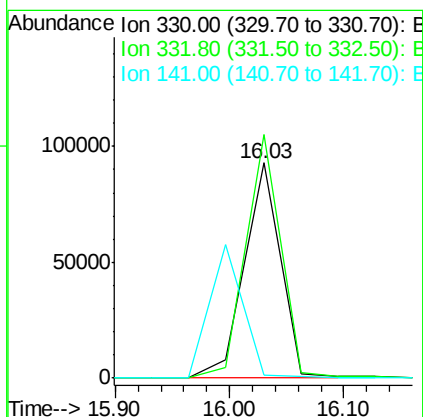
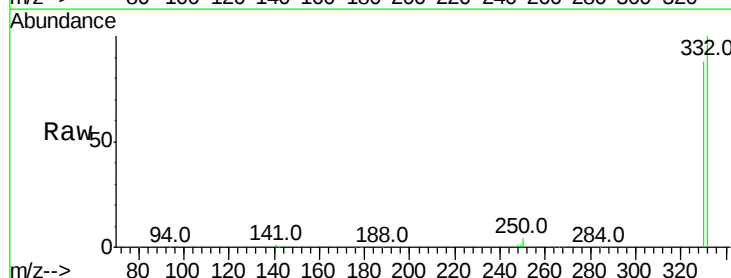
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB103176BL

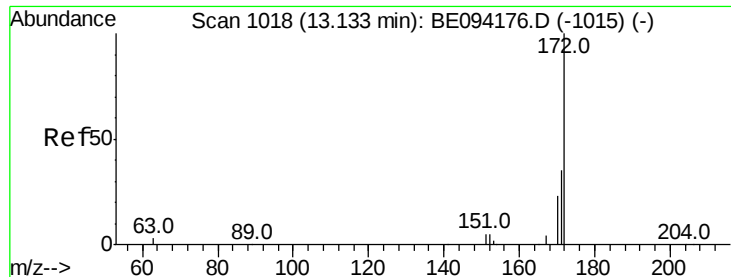
Tot Ion:164 Resp: 224471  
 Ion Ratio Lower Upper  
 164 100  
 162 103.2 83.1 124.7  
 160 46.4 37.1 55.7



#14  
 2,4,6-Tribromophenol  
 Concen: 103.621 ng  
 RT: 16.03 min Scan# 1206  
 Delta R.T. 0.03 min  
 Lab File: BE094316.D  
 Acq: 12 Oct 2017 17:08

Tgt Ion:330 Resp: 202233  
 Ion Ratio Lower Upper  
 330 100  
 332 108.7 152.7 229.1#  
 141 0.0 33.7 50.5#

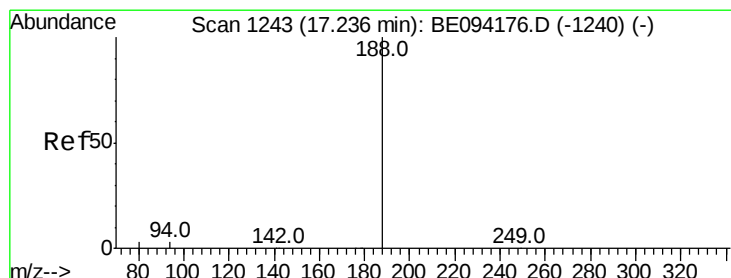
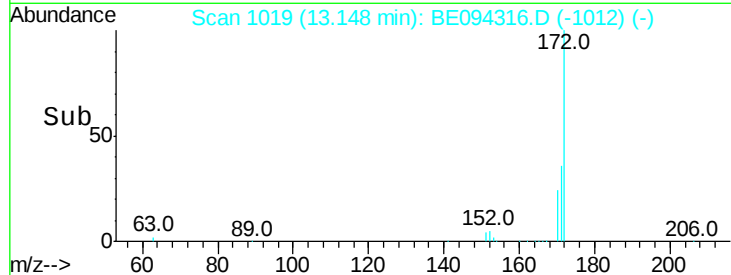
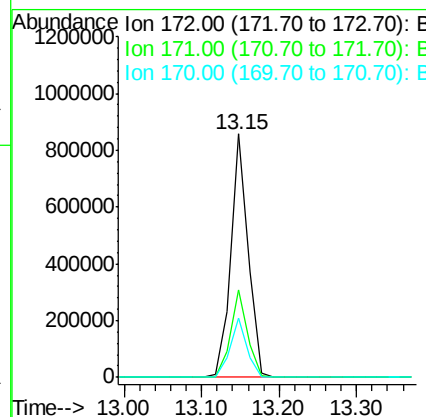
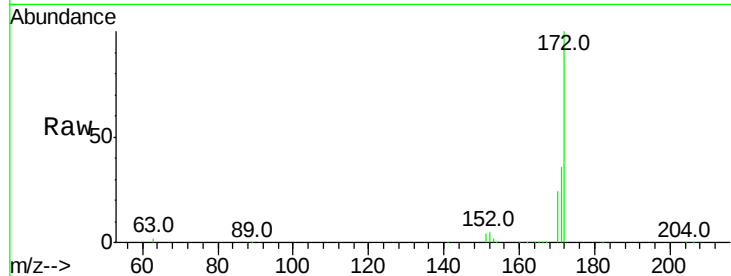




#15  
2-Fluorobiphenyl  
Concen: 86.322 ng  
RT: 13.15 min Scan# 1019  
Delta R.T. 0.02 min  
Lab File: BE094316.D  
Acq: 12 Oct 2017 17:08

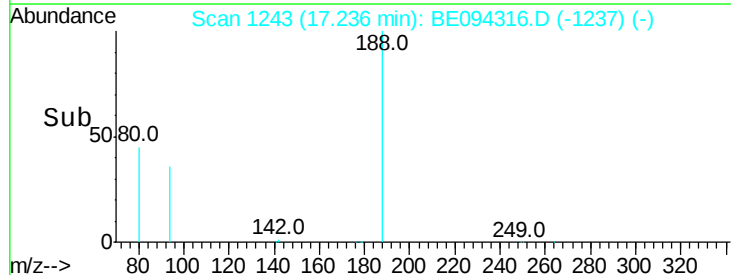
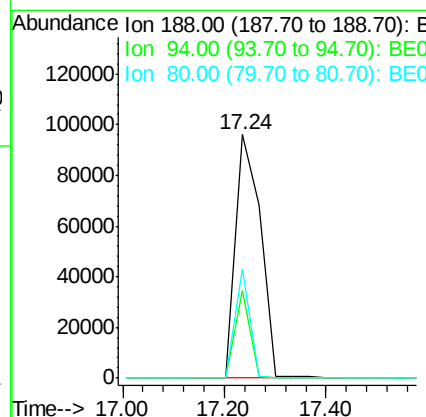
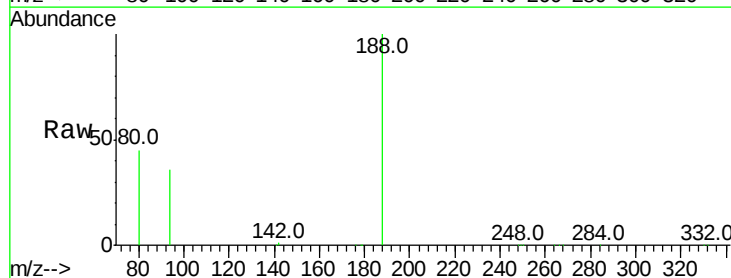
Instrument :  
BNA\_E  
ClientSampleId :  
PB103176BL

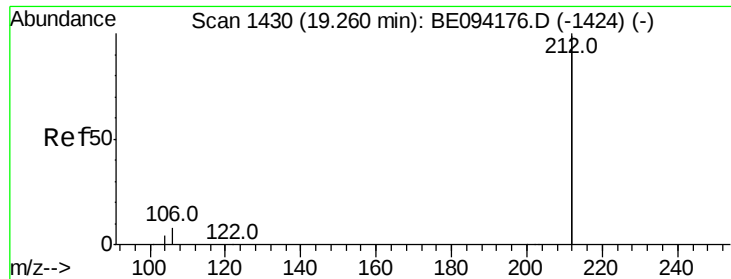
Tot Ion:172 Resp: 1327570  
Ion Ratio Lower Upper  
172 100  
171 36.1 29.9 44.9  
170 24.2 21.8 32.8



#19  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.24 min Scan# 1243  
Delta R.T. 0.00 min  
Lab File: BE094316.D  
Acq: 12 Oct 2017 17:08

Tgt Ion:188 Resp: 326362  
Ion Ratio Lower Upper  
188 100  
94 36.1 3.9 5.9#  
80 44.9 3.6 5.4#





#25

Fluoranthene-d10

Concen: 0.001 ng

RT: 19.30 min Scan# 1435

Delta R.T. 0.03 min

Lab File: BE094316.D

Acq: 12 Oct 2017 17:08

Instrument :

BNA\_E

ClientSampleId :

PB103176BL

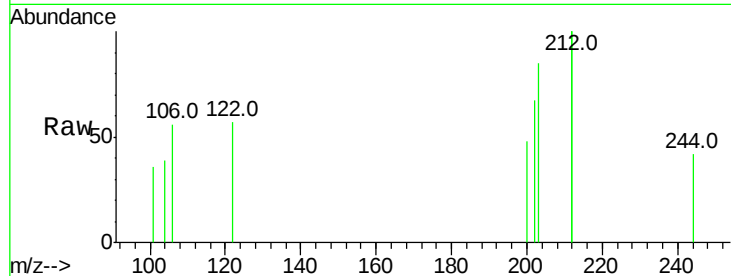
Tot Ion:212 Resp: 88

Ion Ratio Lower Upper

212 100

106 0.0 2.8 4.2#

104 13.6 1.6 2.4#



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

600

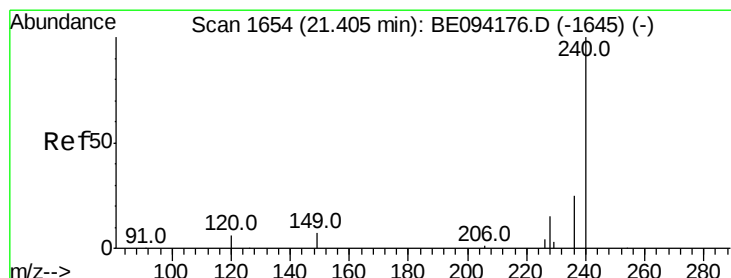
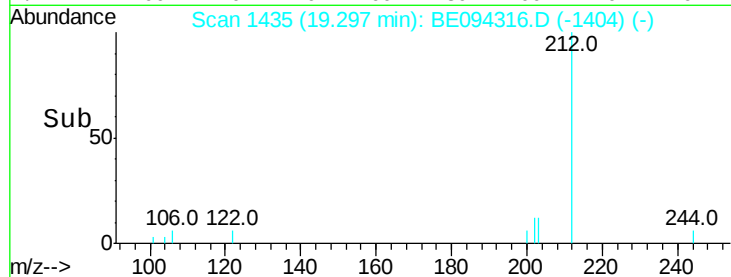
400

200

0

19.25 19.30

Time-->



#27

Chrysene-d12

Concen: 20.000 ng

RT: 21.43 min Scan# 1656

Delta R.T. 0.02 min

Lab File: BE094316.D

Acq: 12 Oct 2017 17:08

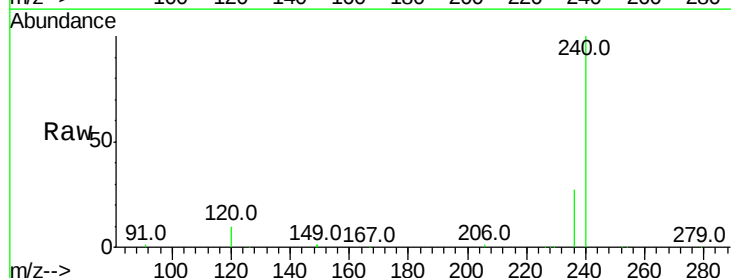
Tgt Ion:240 Resp: 476524

Ion Ratio Lower Upper

240 100

120 9.9 5.5 8.3#

236 27.3 20.7 31.1



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

400000

300000

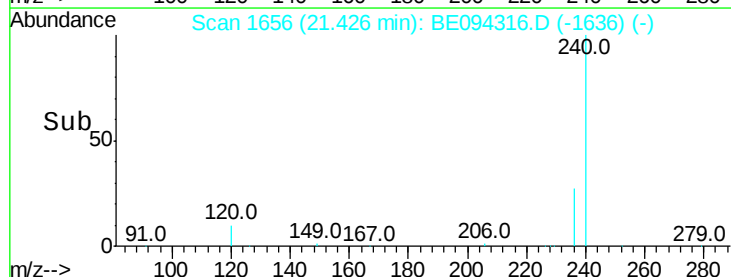
200000

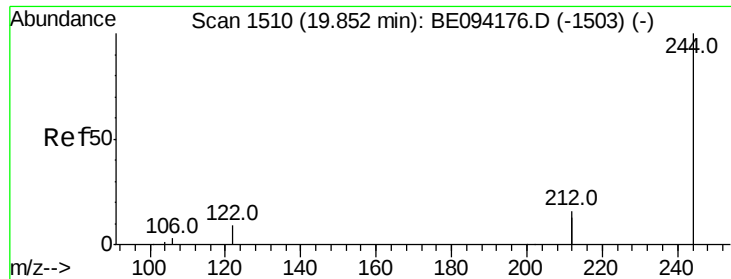
100000

0

21.40 21.43 21.46

Time-->





#29

Terphenyl-d14

Concen: 80.600 ng

RT: 19.87 min Scan# 1512

Delta R.T. 0.01 min

Lab File: BE094316.D

Acq: 12 Oct 2017 17:08

Instrument :

BNA\_E

ClientSampleId :

PB103176BL

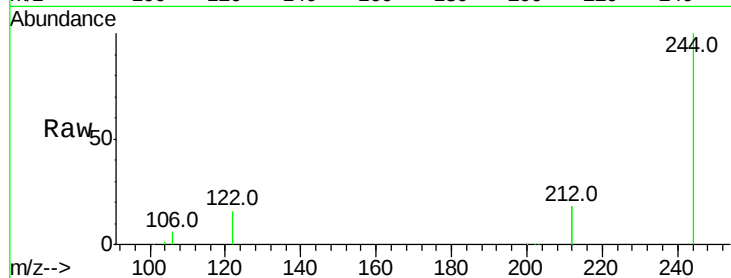
Tot Ion:244 Resp: 1450593

Ion Ratio Lower Upper

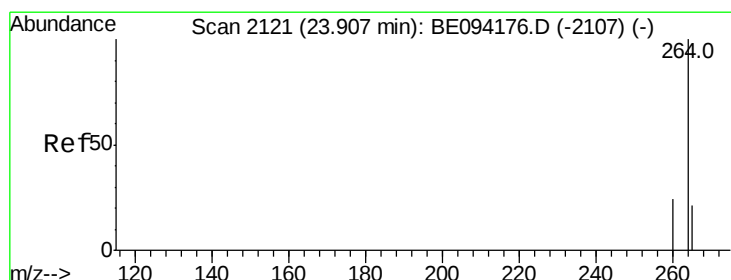
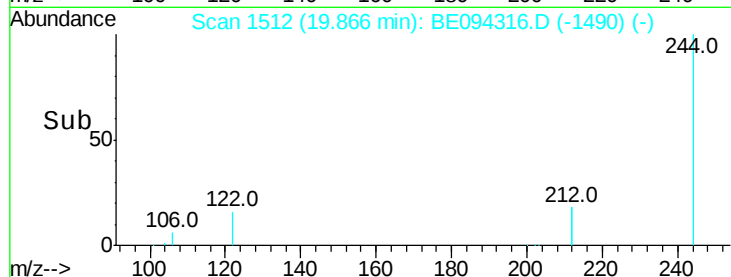
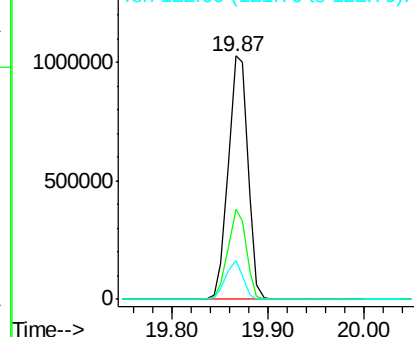
244 100

212 36.9 25.4 38.0

122 15.8 8.1 12.1#



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



#34

Perylene-d12

Concen: 20.000 ng

RT: 23.96 min Scan# 2132

Delta R.T. 0.04 min

Lab File: BE094316.D

Acq: 12 Oct 2017 17:08

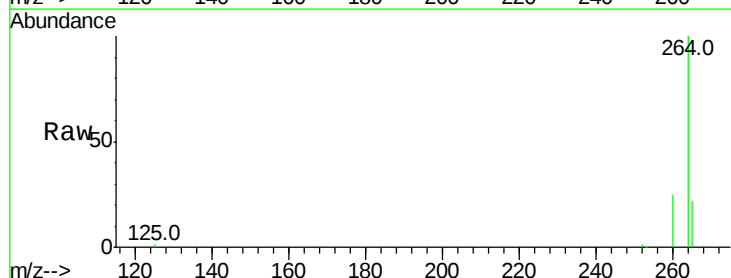
Tgt Ion:264 Resp: 469436

Ion Ratio Lower Upper

264 100

260 24.8 20.5 30.7

265 21.9 22.8 34.2#



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

