

Data Path : Z:\HPCHEM1\BNA E\DATA\BE120117\  
 Data File : BE094909.D  
 Acq On : 1 Dec 2017 17:38  
 Operator : SJ/JU  
 Sample : PB104512BL  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB104512BL

Quant Time: Dec 02 00:36:19 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE113017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 01 13:33:28 2017  
 Response via : Initial Calibration

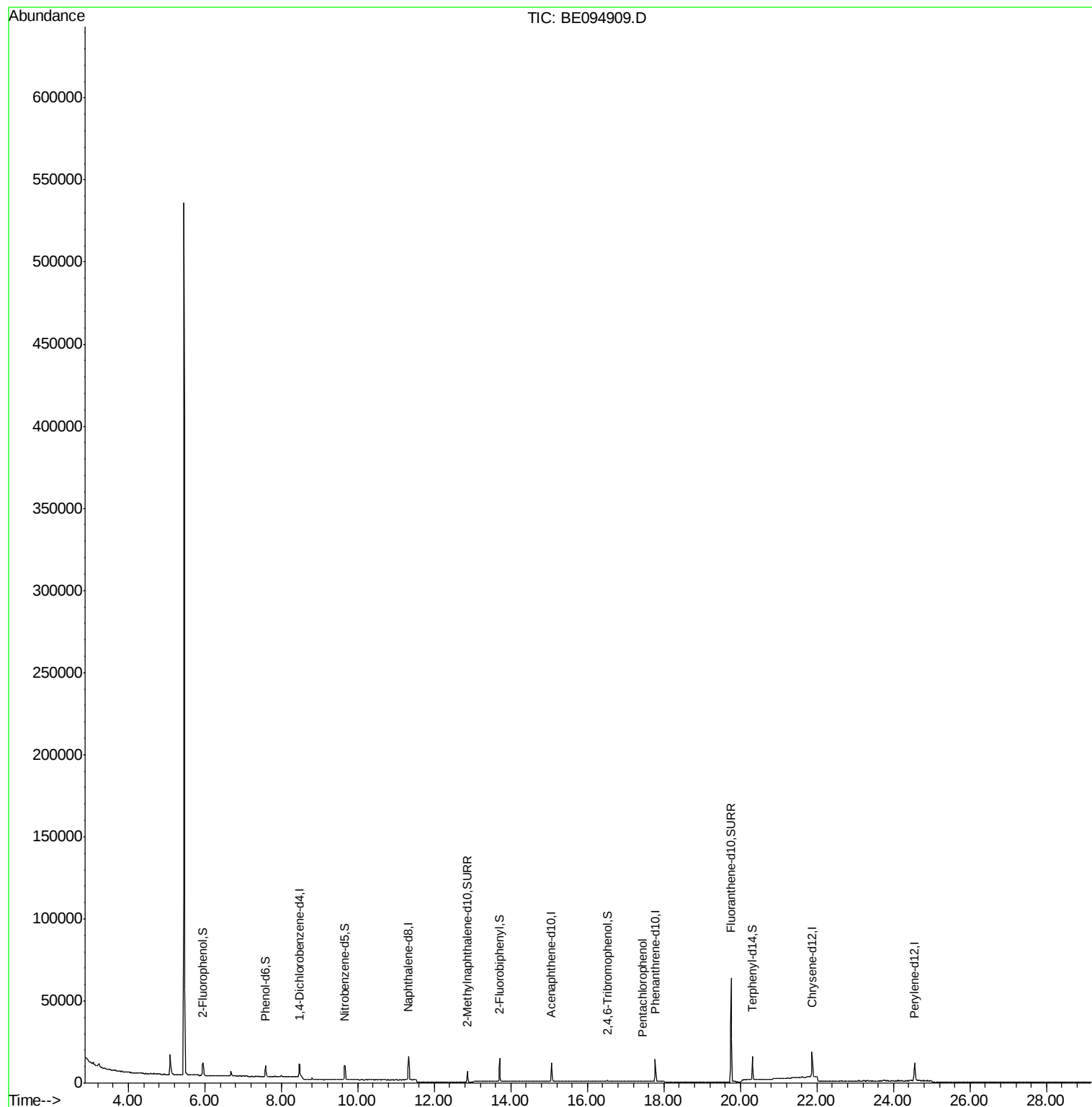
| Internal Standards          | R.T.  | QIon | Response | Conc | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.48  | 152  | 7898     | 0.40 | ng    | 0.00         |
| 7) Naphthalene-d8           | 11.33 | 136  | 15321    | 0.40 | ng    | 0.00         |
| 13) Acenaphthene-d10        | 15.06 | 164  | 7506     | 0.40 | ng    | -0.02        |
| 19) Phenanthrene-d10        | 17.77 | 188  | 17643    | 0.40 | ng    | 0.00         |
| 27) Chrysene-d12            | 21.87 | 240  | 18973    | 0.40 | ng    | -0.01        |
| 34) Perylene-d12            | 24.56 | 264  | 17147    | 0.40 | ng    | -0.01        |
| System Monitoring Compounds |       |      |          |      |       |              |
| 4) 2-Fluorophenol           | 5.95  | 112  | 4126     | 0.33 | ng    | 0.00         |
| 5) Phenol-d6                | 7.59  | 99   | 5914     | 0.32 | ng    | 0.00         |
| 8) Nitrobenzene-d5          | 9.66  | 82   | 4172     | 0.46 | ng    | 0.00         |
| 11) 2-Methylnaphthalene-d10 | 12.87 | 152  | 8651     | 0.35 | ng    | 0.00         |
| 14) 2,4,6-Tribromophenol    | 16.53 | 330  | 430      | 0.32 | ng    | 0.00         |
| 15) 2-Fluorobiphenyl        | 13.71 | 172  | 12781    | 0.40 | ng    | 0.00         |
| 25) Fluoranthene-d10        | 19.75 | 212  | 83539    | 0.35 | ng    | 0.00         |
| 29) Terphenyl-d14           | 20.31 | 244  | 15645    | 0.45 | ng    | -0.01        |
| Target Compounds            |       |      |          |      |       |              |
| 22) Pentachlorophenol       | 17.44 | 266  | 3        | 0.13 | ng    | Qvalue<br>98 |

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

Data Path : Z:\HPCHEM1\BNA E\DATA\BE120117\  
Data File : BE094909.D  
Acq On : 1 Dec 2017 17:38  
Operator : SJ/JU  
Sample : PB104512BL  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
PB104512BL

Quant Time: Dec 02 00:36:19 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 01 13:33:28 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 8.48 min Scan# 447

Delta R.T. -0.00 min

Lab File: BE094909.D

Acq: 1 Dec 2017 17:38

Instrument :

BNA\_E

ClientSampleId :

PB104512BL

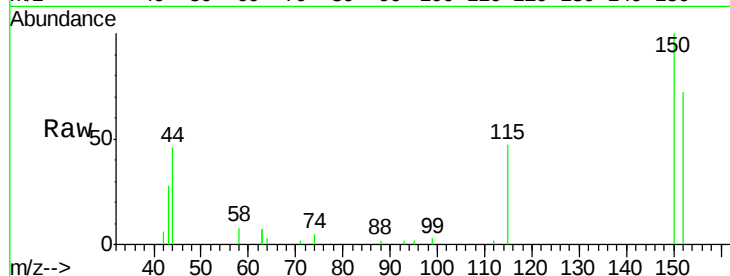
Tot Ion:152 Resp: 7898

Ion Ratio Lower Upper

152 100

150 138.3 117.2 175.8

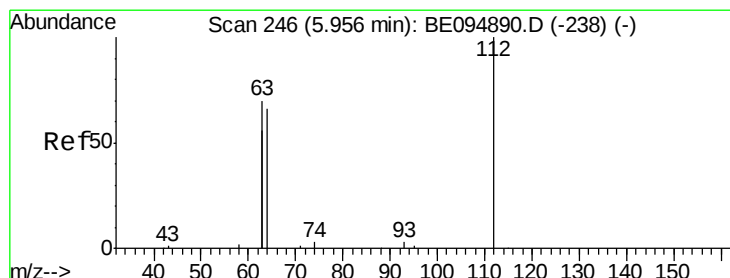
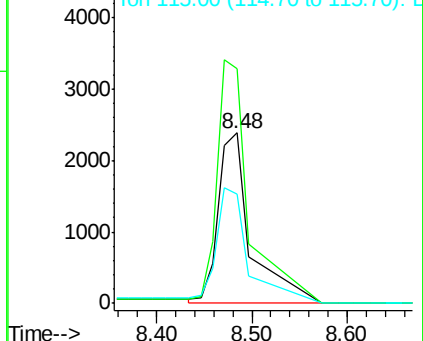
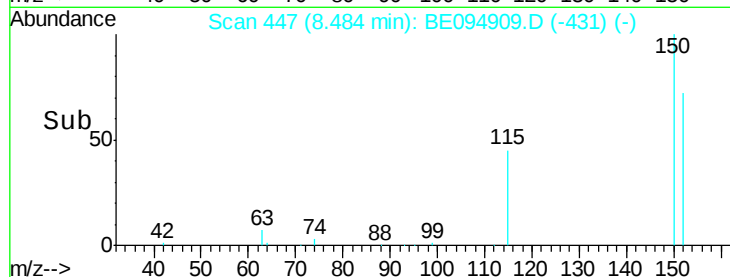
115 64.4 57.0 85.6



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: 0.33 ng

RT: 5.95 min Scan# 246

Delta R.T. -0.00 min

Lab File: BE094909.D

Acq: 1 Dec 2017 17:38

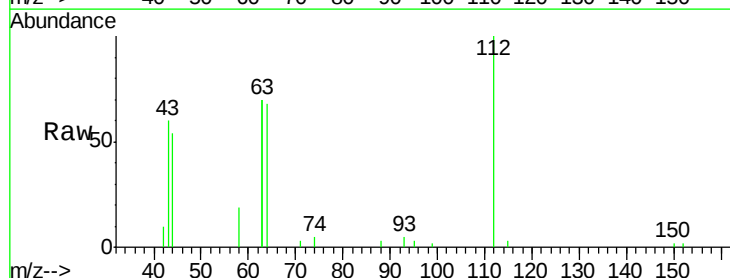
Tgt Ion:112 Resp: 4126

Ion Ratio Lower Upper

112 100

64 76.1 60.1 90.1

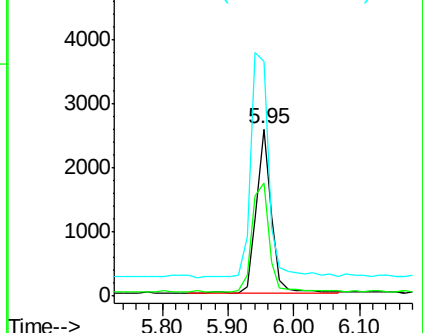
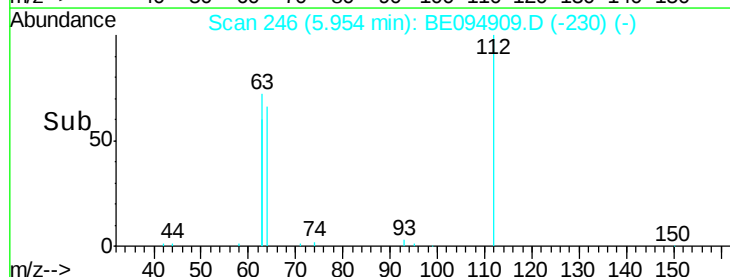
63 159.6 116.8 175.2

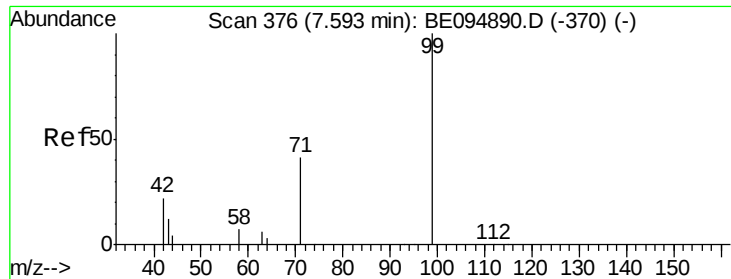


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.32 ng

RT: 7.59 min Scan# 376

Delta R.T. -0.00 min

Lab File: BE094909.D

Acq: 1 Dec 2017 17:38

Instrument :

BNA\_E

ClientSampleId :

PB104512BL

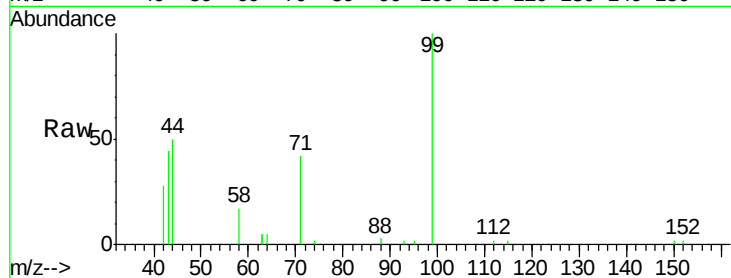
Tot Ion: 99 Resp: 5914

Ion Ratio Lower Upper

99 100

42 25.9 20.2 30.2

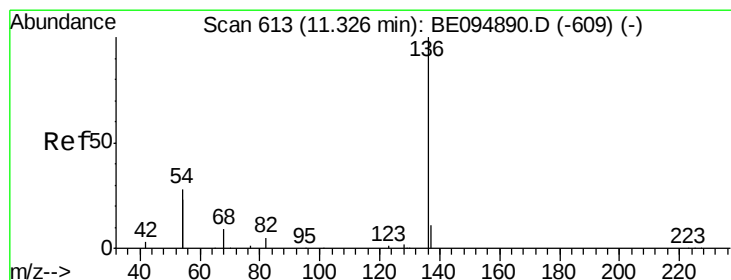
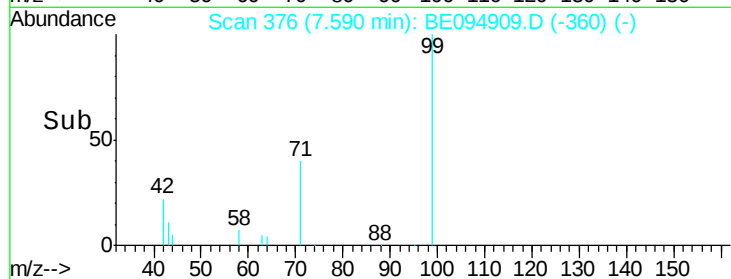
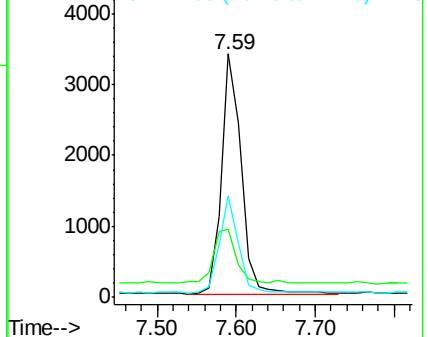
71 38.4 28.4 42.6



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: 0.40 ng

RT: 11.33 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE094909.D

Acq: 1 Dec 2017 17:38

Tgt Ion: 136 Resp: 15321

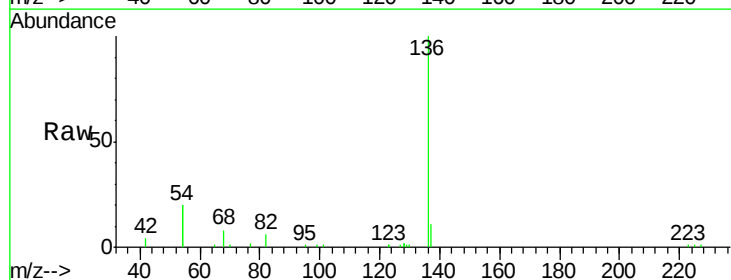
Ion Ratio Lower Upper

136 100

137 11.1 9.5 14.3

54 39.1 29.1 43.7

68 8.2 6.2 9.2

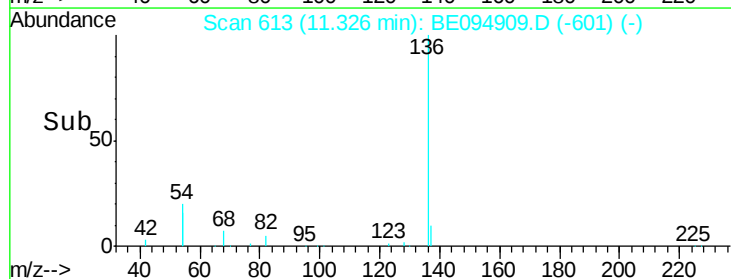
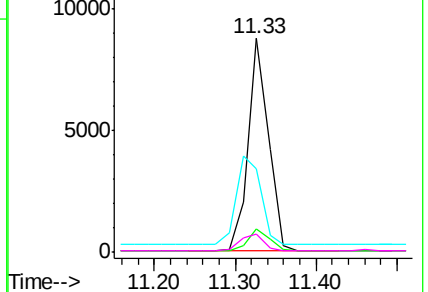


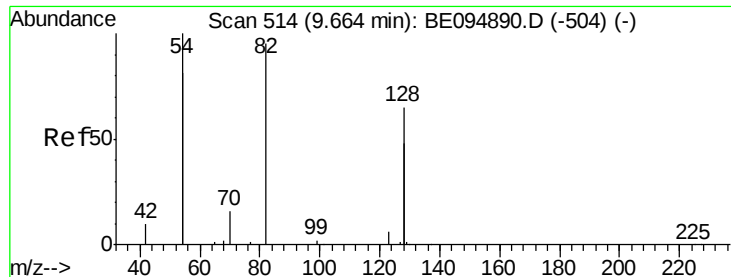
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.46 ng

RT: 9.66 min Scan# 514

Delta R.T. 0.00 min

Lab File: BE094909.D

Acq: 1 Dec 2017 17:38

Instrument :

BNA\_E

ClientSampleId :

PB104512BL

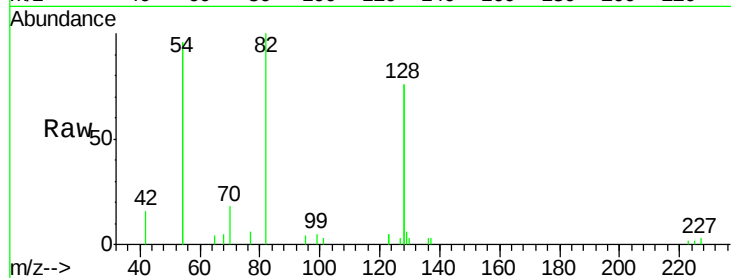
Tot Ion: 82 Resp: 4172

Ion Ratio Lower Upper

82 100

128 152.4 150.0 225.0

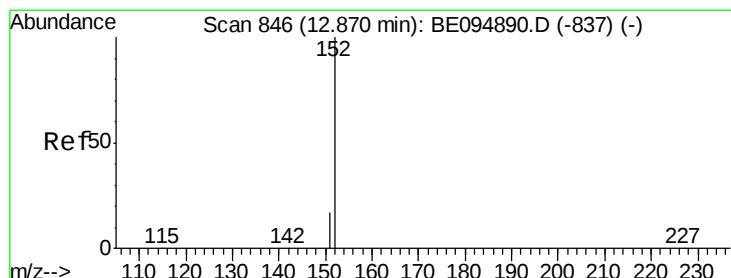
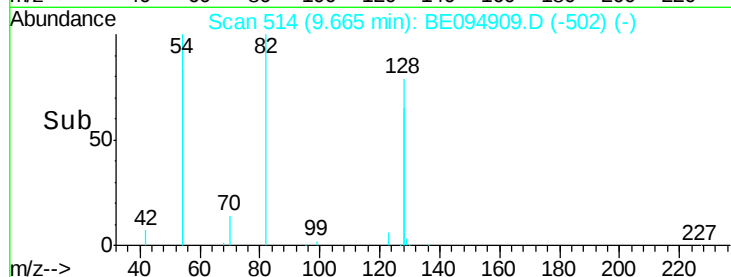
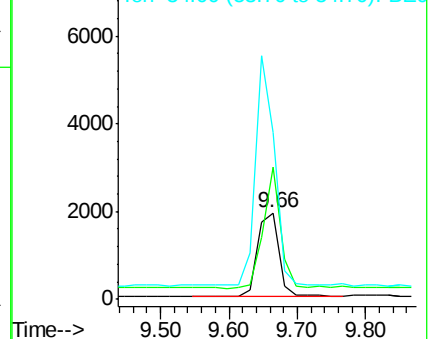
54 192.3 154.2 231.4



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: 0.35 ng

RT: 12.87 min Scan# 845

Delta R.T. -0.01 min

Lab File: BE094909.D

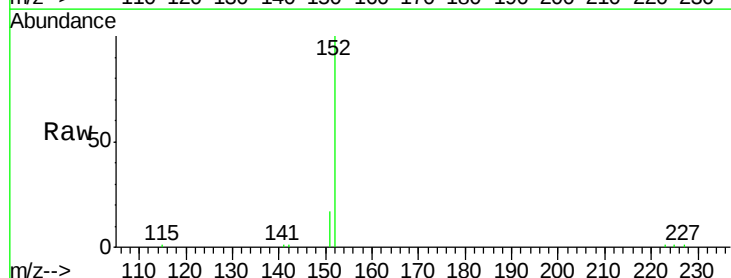
Acq: 1 Dec 2017 17:38

Tgt Ion: 152 Resp: 8651

Ion Ratio Lower Upper

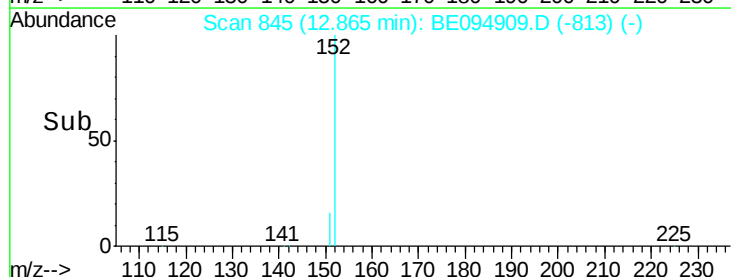
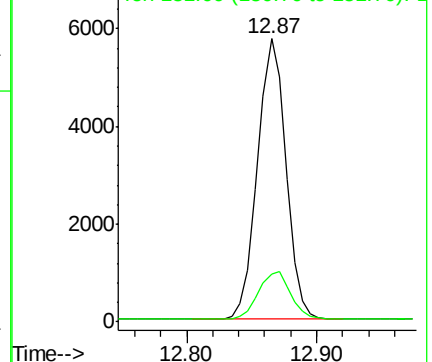
152 100

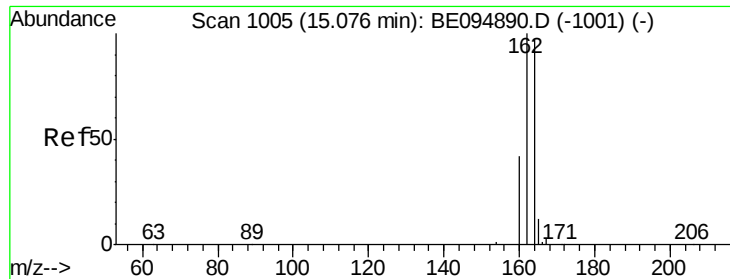
151 19.3 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): BE0

Ion 151.00 (150.70 to 151.70): BE0





#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 15.06 min Scan# 1004

Delta R.T. -0.02 min

Lab File: BE094909.D

Acq: 1 Dec 2017 17:38

Instrument :

BNA\_E

ClientSampleId :

PB104512BL

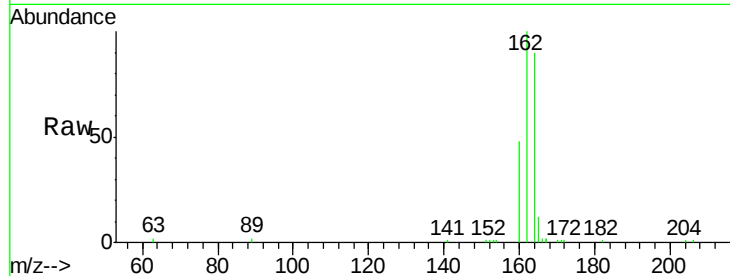
Tot Ion:164 Resp: 7506

Ion Ratio Lower Upper

164 100

162 111.5 83.1 124.7

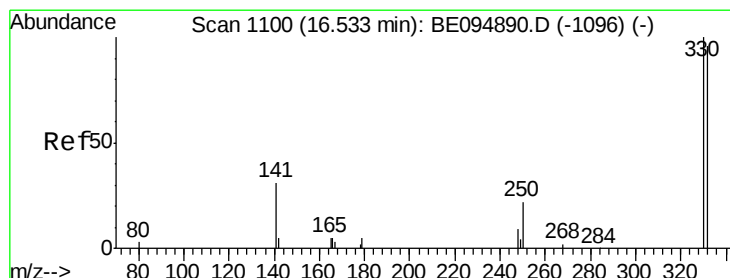
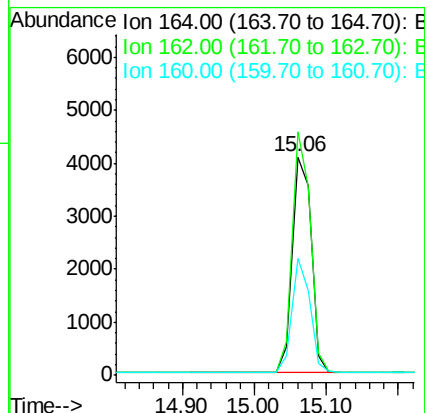
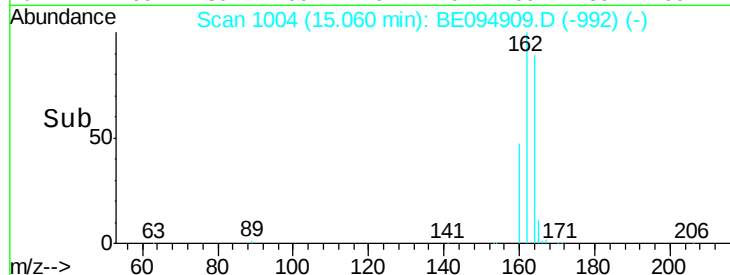
160 53.3 37.1 55.7



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



#14

2,4,6-Tribromophenol

Concen: 0.32 ng

RT: 16.53 min Scan# 1100

Delta R.T. -0.00 min

Lab File: BE094909.D

Acq: 1 Dec 2017 17:38

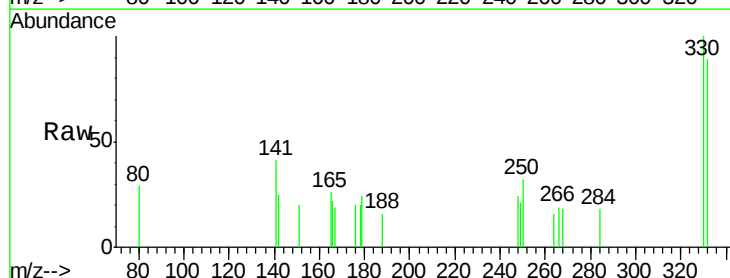
Tgt Ion:330 Resp: 430

Ion Ratio Lower Upper

330 100

332 88.4 152.7 229.1#

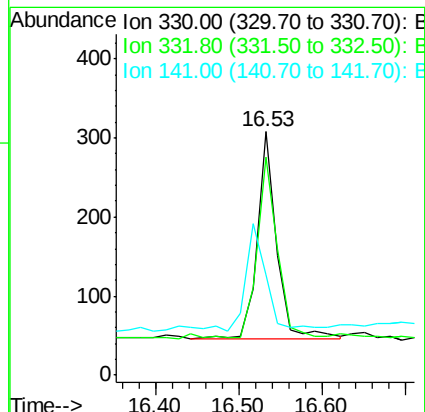
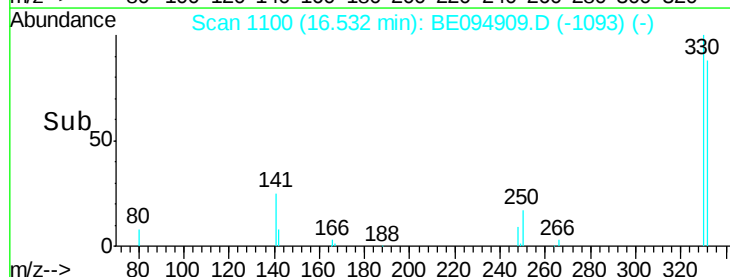
141 48.4 33.7 50.5

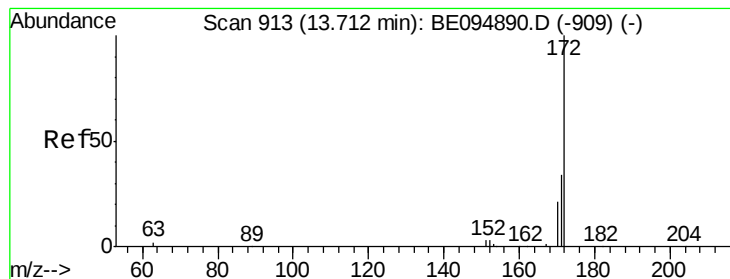


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.40 ng

RT: 13.71 min Scan# 913

Delta R.T. -0.00 min

Lab File: BE094909.D

Acq: 1 Dec 2017 17:38

Instrument :

BNA\_E

ClientSampleId :

PB104512BL

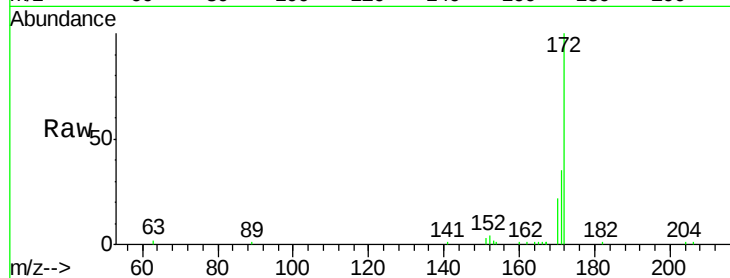
Tot Ion:172 Resp: 12781

Ion Ratio Lower Upper

172 100

171 35.0 29.9 44.9

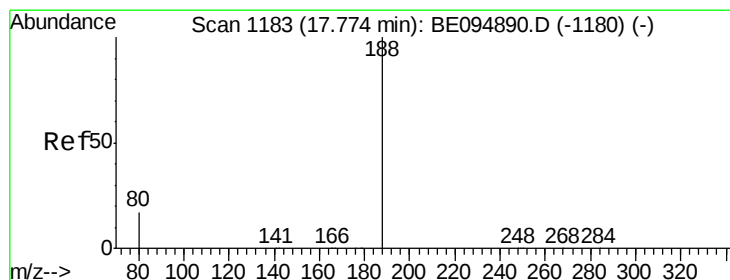
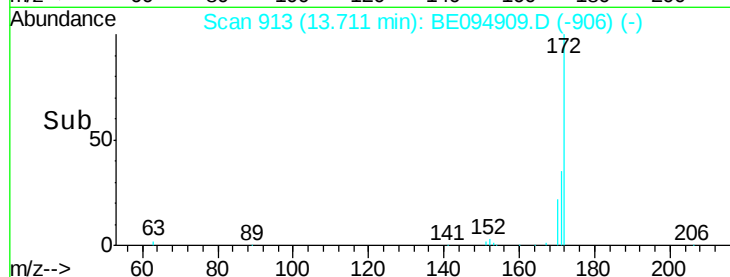
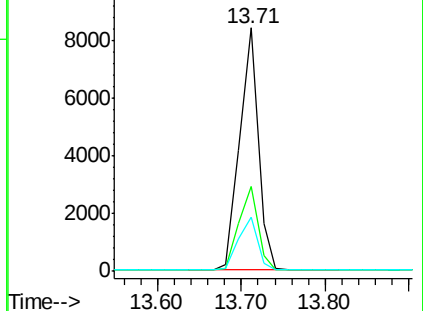
170 22.4 21.8 32.8



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



#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.77 min Scan# 1183

Delta R.T. -0.00 min

Lab File: BE094909.D

Acq: 1 Dec 2017 17:38

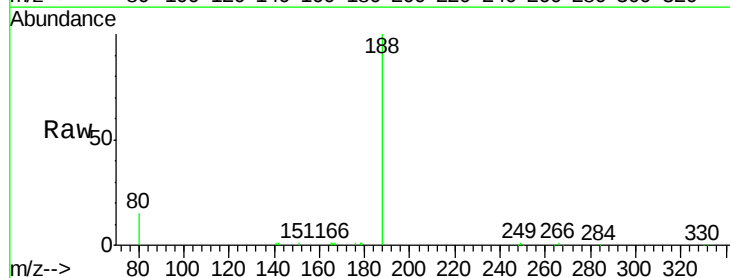
Tgt Ion:188 Resp: 17643

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

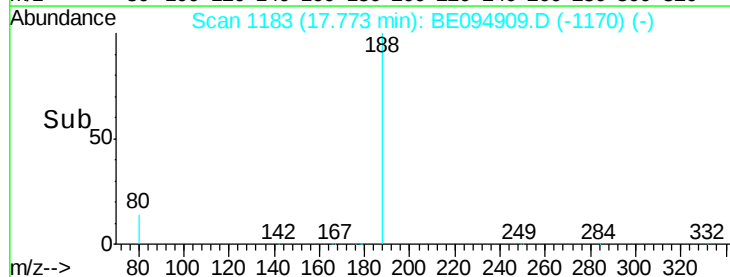
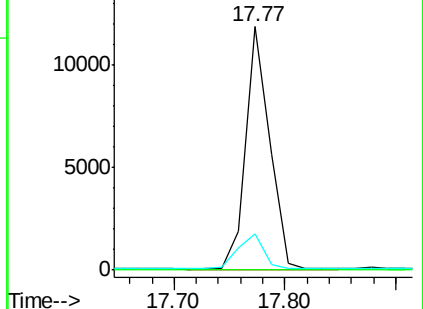
80 14.8 3.6 5.4#

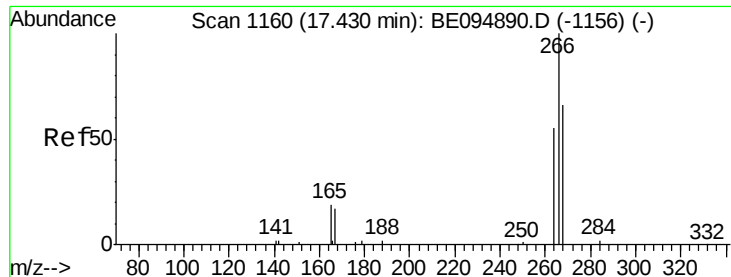


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#22

Pentachlorophenol

Concen: 0.13 ng

RT: 17.44 min Scan# 1161

Delta R.T. 0.02 min

Lab File: BE094909.D

Acq: 1 Dec 2017 17:38

Instrument :

BNA\_E

ClientSampleId :

PB104512BL

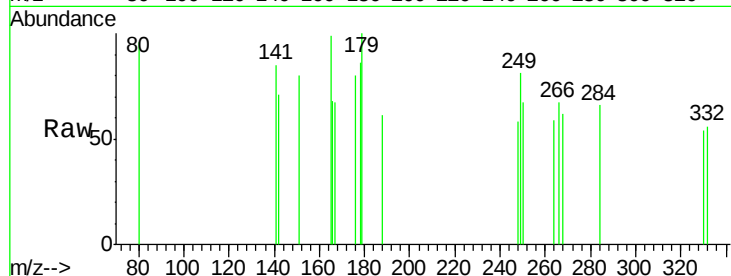
Tot Ion:266 Resp: 3

Ion Ratio Lower Upper

266 100

264 87.7 72.5 108.7

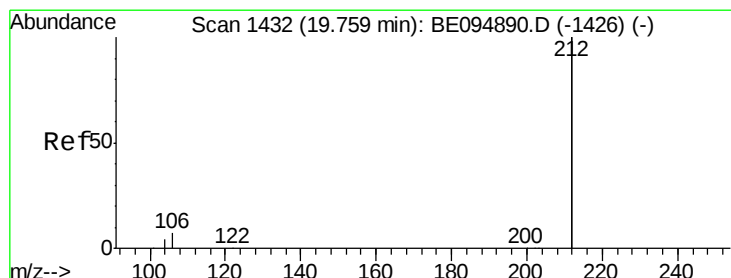
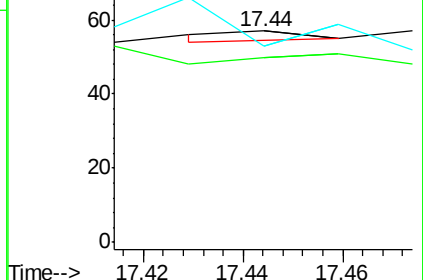
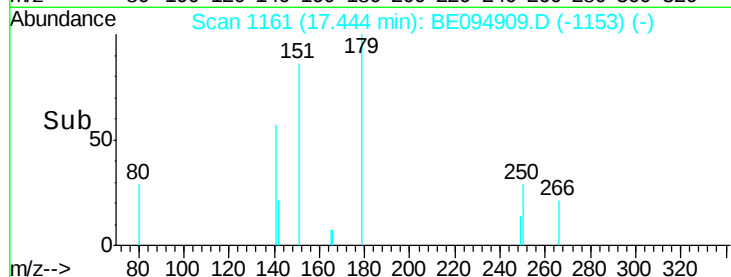
268 93.0 73.8 110.6



Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



#25

Fluoranthene-d10

Concen: 0.35 ng

RT: 19.75 min Scan# 1431

Delta R.T. -0.01 min

Lab File: BE094909.D

Acq: 1 Dec 2017 17:38

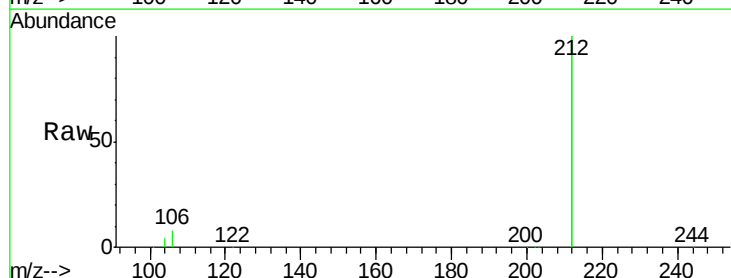
Tgt Ion:212 Resp: 83539

Ion Ratio Lower Upper

212 100

106 3.6 2.8 4.2

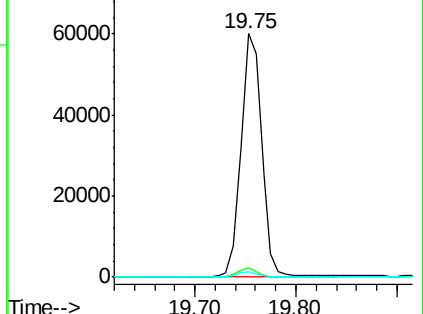
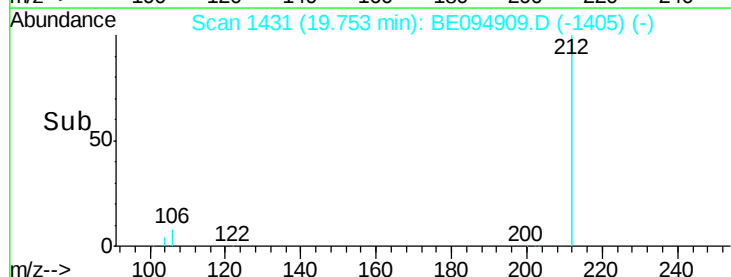
104 2.1 1.6 2.4

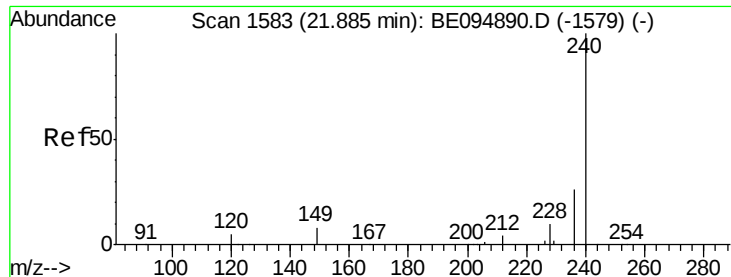


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

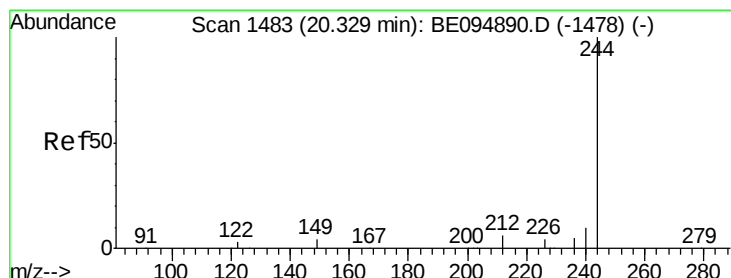
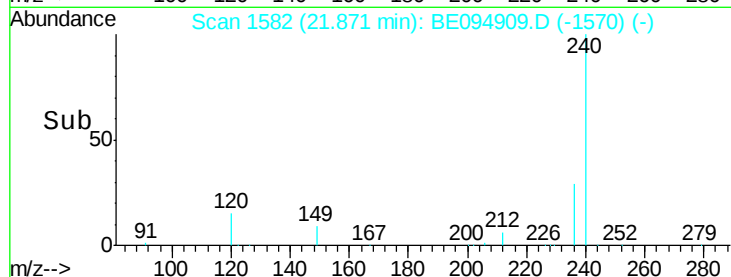
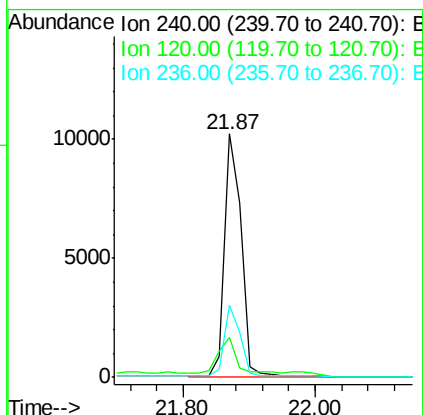
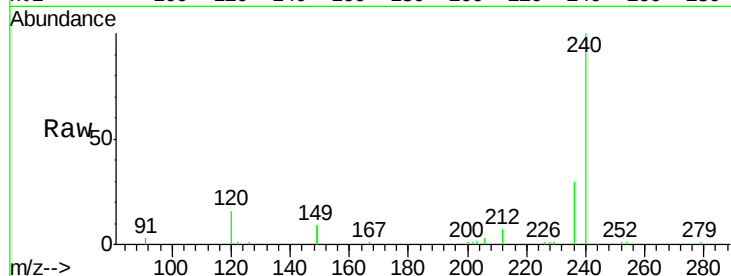




#27  
 Chrysene-d12  
 Concen: 0.40 ng  
 RT: 21.87 min Scan# 1582  
 Delta R.T. -0.01 min  
 Lab File: BE094909.D  
 Acq: 1 Dec 2017 17:38

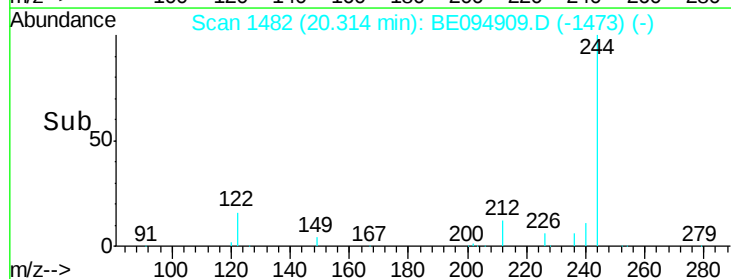
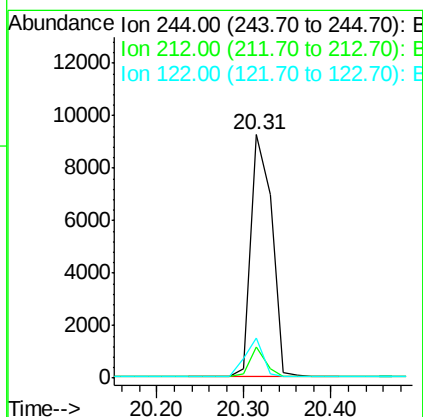
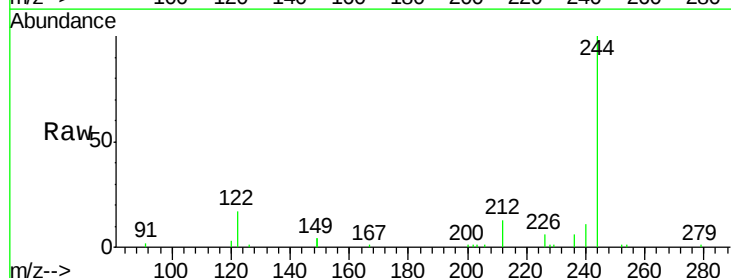
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB104512BL

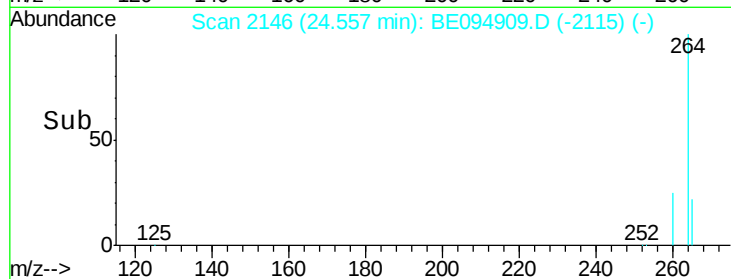
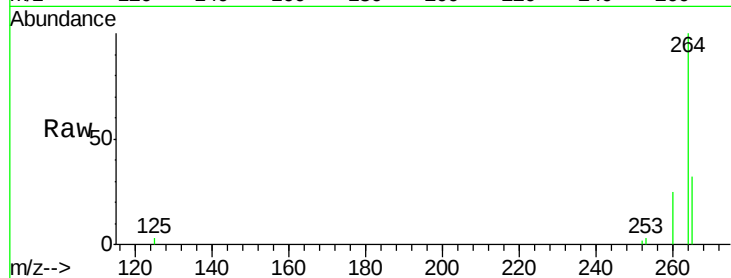
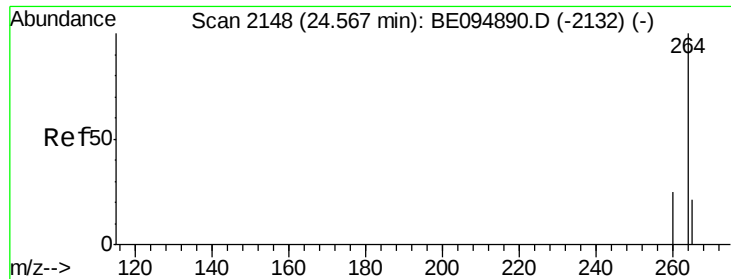
Tot Ion:240 Resp: 18973  
 Ion Ratio Lower Upper  
 240 100  
 120 16.5 5.5 8.3#  
 236 29.5 20.7 31.1



#29  
 Terphenyl-d14  
 Concen: 0.45 ng  
 RT: 20.31 min Scan# 1482  
 Delta R.T. -0.01 min  
 Lab File: BE094909.D  
 Acq: 1 Dec 2017 17:38

Tgt Ion:244 Resp: 15645  
 Ion Ratio Lower Upper  
 244 100  
 212 12.5 25.4 38.0#  
 122 16.7 8.1 12.1#





#34

Pervlene-d12

Concen: 0.40 ng

RT: 24.56 min Scan# 2146

Delta R.T. -0.01 min

Lab File: BE094909.D

Acq: 1 Dec 2017 17:38

Instrument :

BNA\_E

ClientSampleId :

PB104512BL

Tot Ion:264 Resp: 17147

Ion Ratio Lower Upper

264 100

260 25.4 20.5 30.7

265 32.1 22.8 34.2

