

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092617\  
 Data File : BE094130.D  
 Acq On : 26 Sep 2017 16:02  
 Operator : SJ/JU  
 Sample : PB102616BL  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB102616BL

Quant Time: Sep 26 19:26:03 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 25 17:37:08 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.90  | 152  | 1516     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.69 | 136  | 6915     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.51 | 164  | 4177     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.24 | 188  | 16591    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.40 | 240  | 15231    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.91 | 264  | 14559    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.51  | 112  | 1654     | 0.29 | ng    | 0.01     |
| 5) Phenol-d6                | 7.10  | 99   | 2183     | 0.27 | ng    | 0.01     |
| 8) Nitrobenzene-d5          | 9.06  | 82   | 1867     | 0.28 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.28 | 152  | 3379     | 0.32 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 16.00 | 330  | 401      | 0.14 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.15 | 172  | 4320     | 0.31 | ng    | 0.02     |
| 25) Fluoranthene-d10        | 19.27 | 212  | 54202    | 0.34 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.85 | 244  | 9059     | 0.33 | ng    | 0.00     |

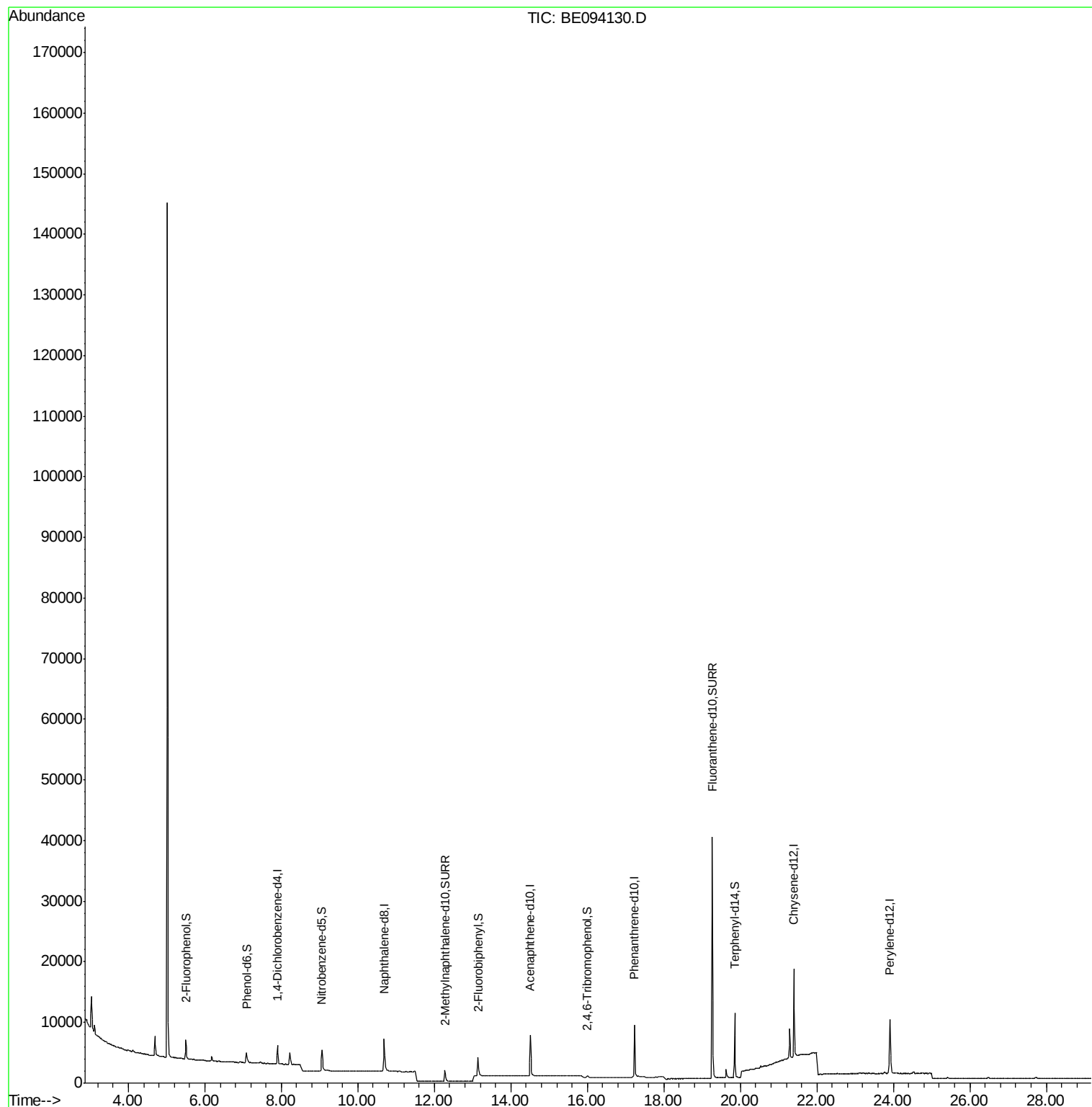
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.90 min Scan# 401

Delta R.T. -0.00 min

Lab File: BE094130.D

Acq: 26 Sep 2017 16:02

Instrument :

BNA\_E

ClientSampleId :

PB102616BL

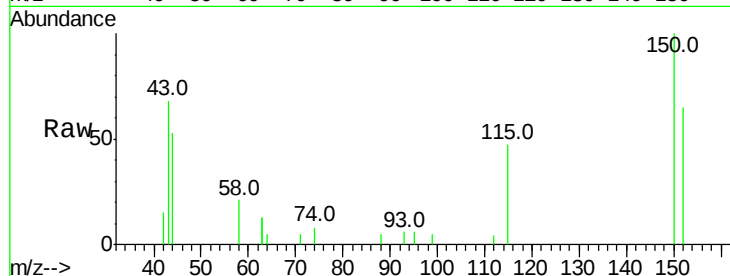
Tot Ion:152 Resp: 1516

Ion Ratio Lower Upper

152 100

150 154.9 117.2 175.8

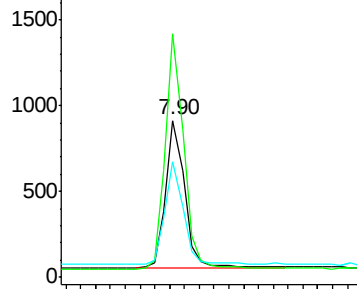
115 73.3 57.0 85.6



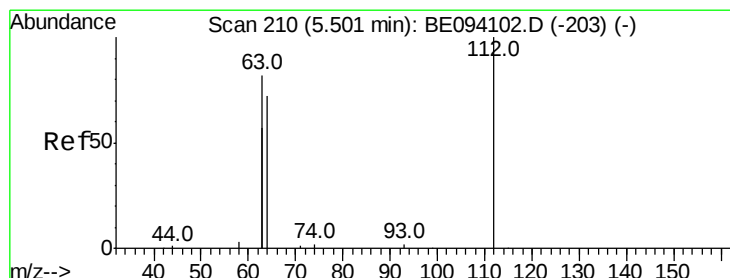
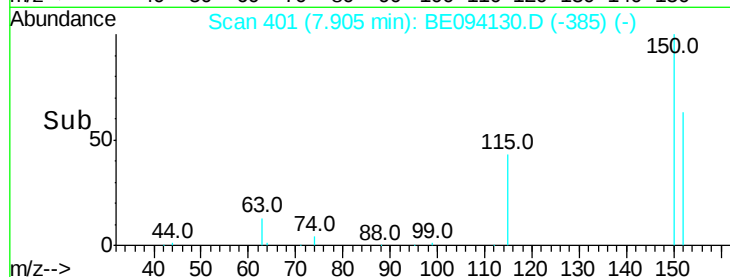
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->



#4

2-Fluorophenol

Concen: 0.288 ng

RT: 5.51 min Scan# 211

Delta R.T. 0.01 min

Lab File: BE094130.D

Acq: 26 Sep 2017 16:02

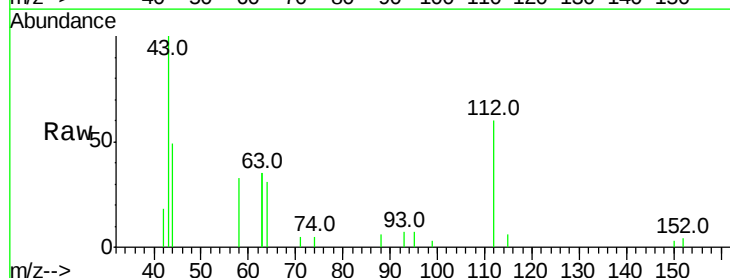
Tgt Ion:112 Resp: 1654

Ion Ratio Lower Upper

112 100

64 74.0 60.1 90.1

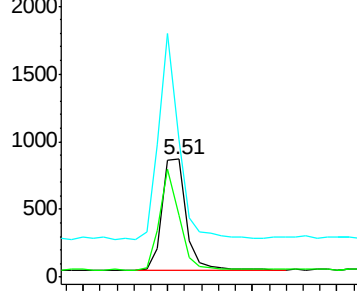
63 152.2 116.8 175.2



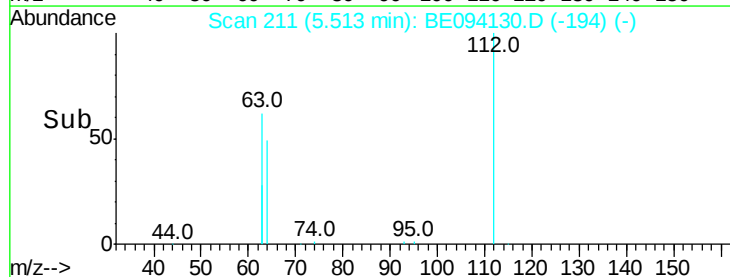
Abundance Ion 112.00 (111.70 to 112.70): E

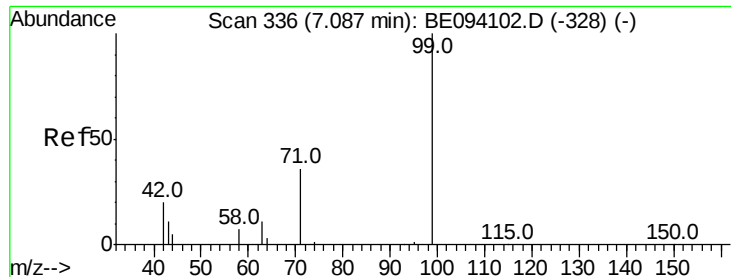
Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



Time-->





#5

Phenol-d6

Concen: 0.273 ng

RT: 7.10 min Scan# 337

Delta R.T. 0.01 min

Lab File: BE094130.D

Acq: 26 Sep 2017 16:02

Instrument :

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ClientSampleId :

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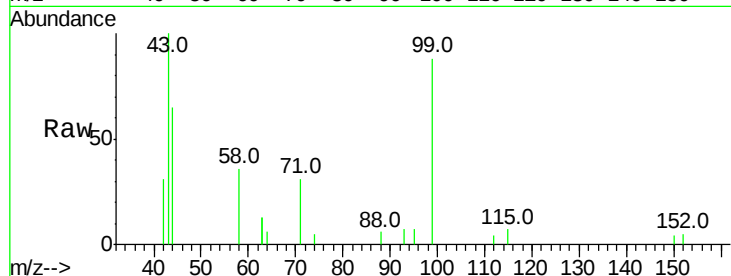
Tot Ion: 99 Resp: 2183

Ion Ratio Lower Upper

99 100

42 24.1 20.2 30.2

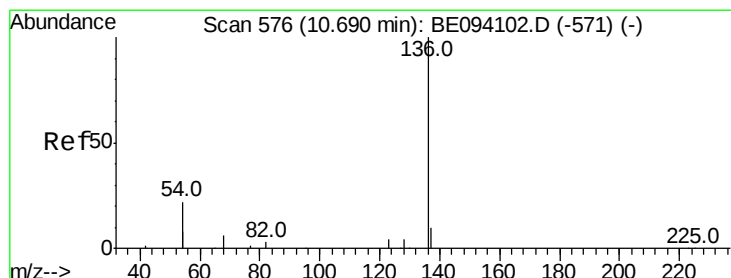
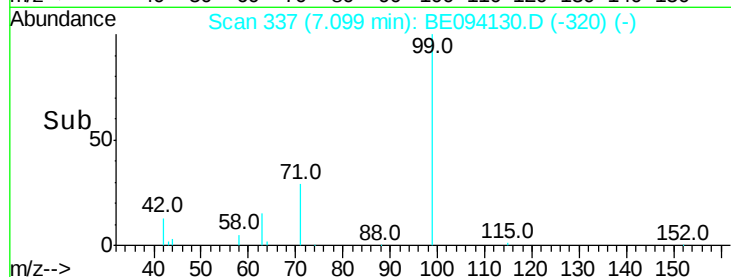
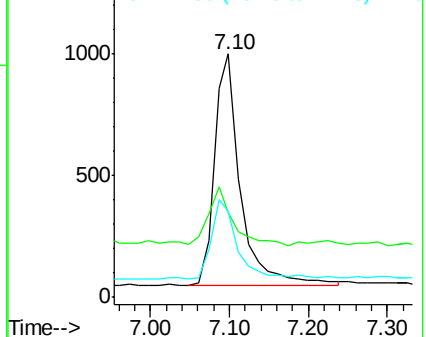
71 36.5 28.4 42.6



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: 0.400 ng

RT: 10.69 min Scan# 576

Delta R.T. -0.00 min

Lab File: BE094130.D

Acq: 26 Sep 2017 16:02

Tgt Ion: 136 Resp: 6915

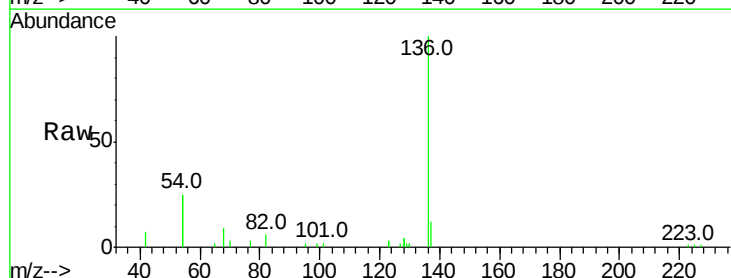
Ion Ratio Lower Upper

136 100

137 12.2 9.5 14.3

54 49.4 29.1 43.7#

68 9.1 6.2 9.2

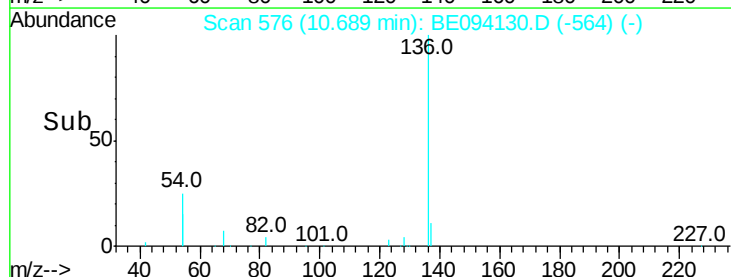
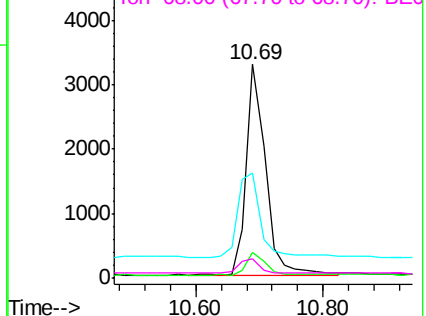


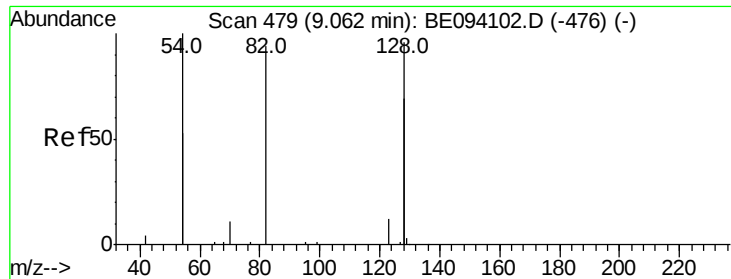
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.279 ng

RT: 9.06 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE094130.D

Acq: 26 Sep 2017 16:02

Instrument :

BNA\_E

ClientSampleId :

PB102616BL

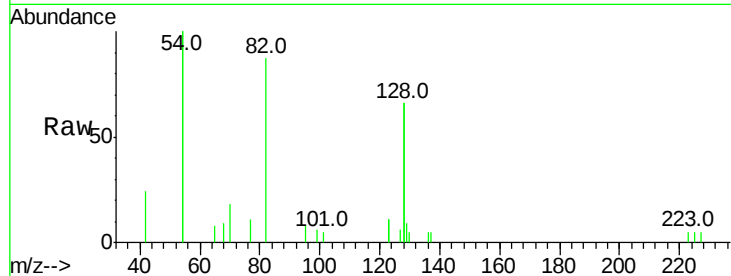
Tot Ion: 82 Resp: 1867

Ion Ratio Lower Upper

82 100

128 151.6 150.0 225.0

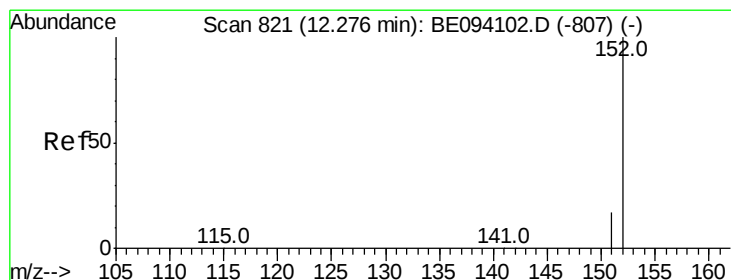
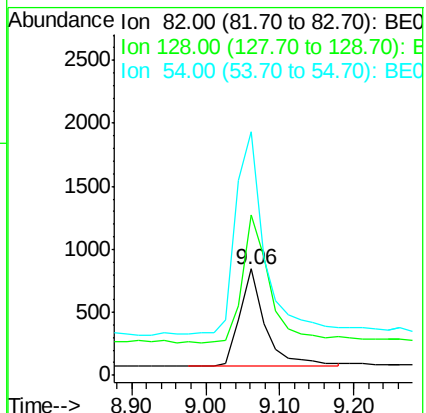
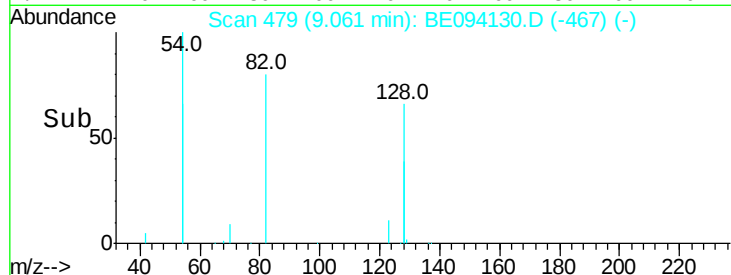
54 229.2 154.2 231.4



Abundance Ion 82.00 (81.70 to 82.70): BE094130.D (-768) (-)

Ion 128.00 (127.70 to 128.70): BE094130.D (-768) (-)

Ion 54.00 (53.70 to 54.70): BE094130.D (-768) (-)



#11

2-Methylnaphthalene-d10

Concen: 0.317 ng

RT: 12.28 min Scan# 821

Delta R.T. 0.00 min

Lab File: BE094130.D

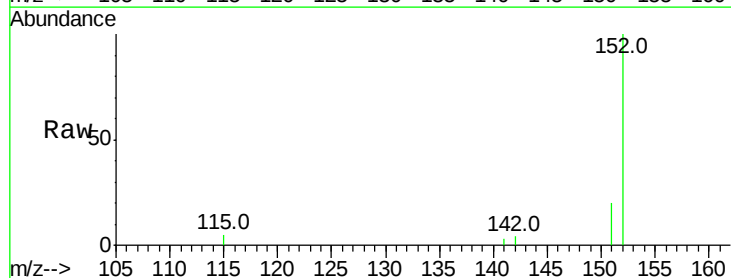
Acq: 26 Sep 2017 16:02

Tgt Ion: 152 Resp: 3379

Ion Ratio Lower Upper

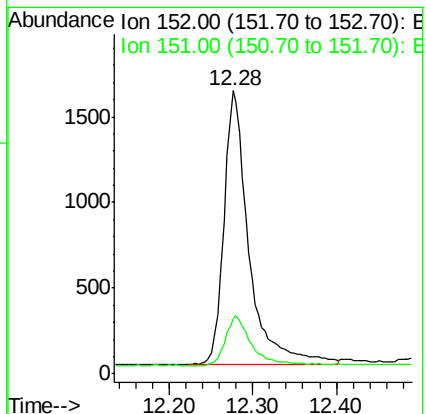
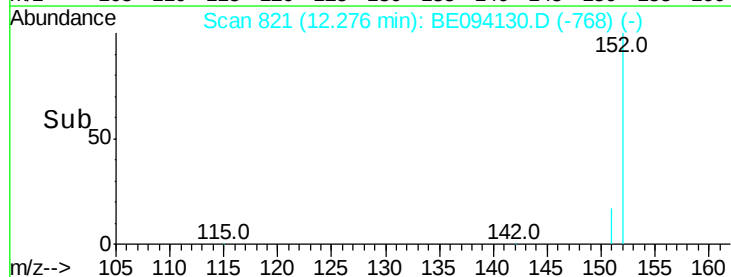
152 100

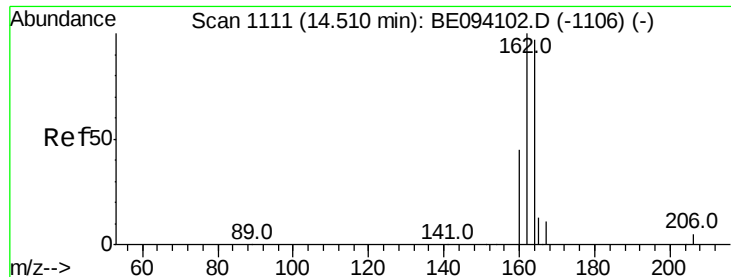
151 18.4 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): BE094130.D (-768) (-)

Ion 151.00 (150.70 to 151.70): BE094130.D (-768) (-)





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.51 min Scan# 1111

Delta R.T. 0.00 min

Lab File: BE094130.D

Acq: 26 Sep 2017 16:02

Instrument :

BNA\_E

ClientSampleId :

PB102616BL

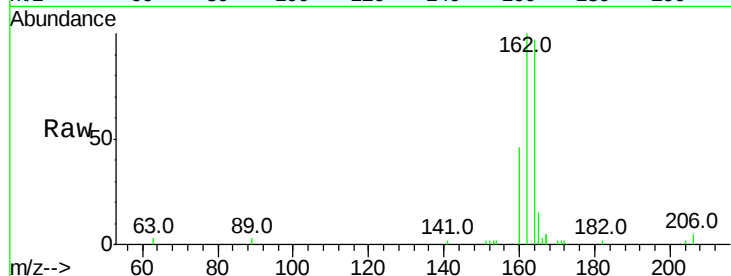
Tot Ion:164 Resp: 4177

Ion Ratio Lower Upper

164 100

162 103.3 83.1 124.7

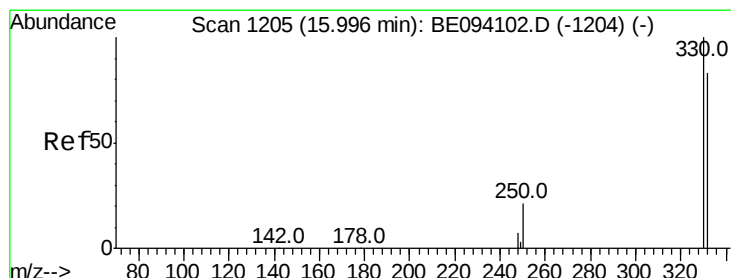
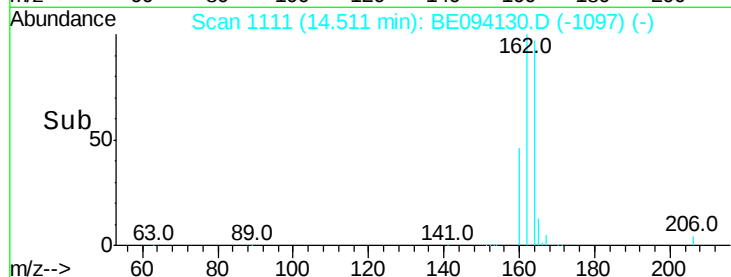
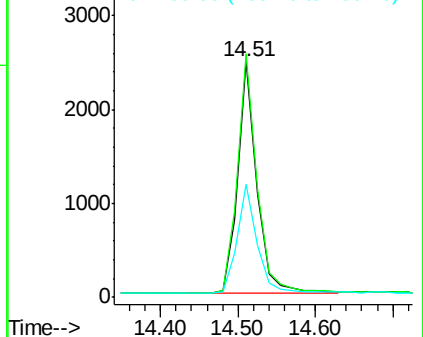
160 48.0 37.1 55.7



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: 0.143 ng

RT: 16.00 min Scan# 1205

Delta R.T. 0.00 min

Lab File: BE094130.D

Acq: 26 Sep 2017 16:02

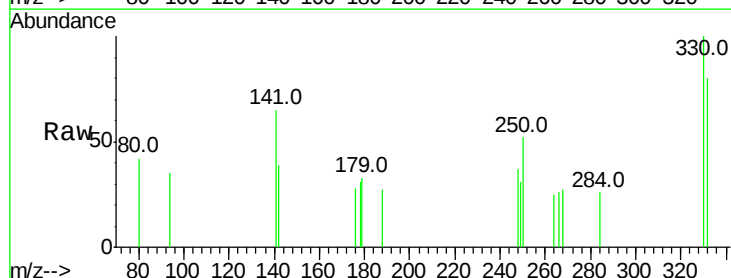
Tgt Ion:330 Resp: 401

Ion Ratio Lower Upper

330 100

332 87.8 152.7 229.1#

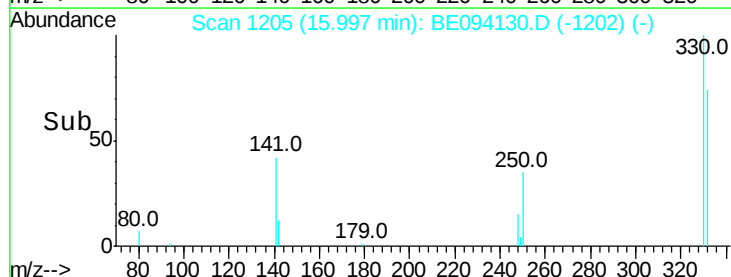
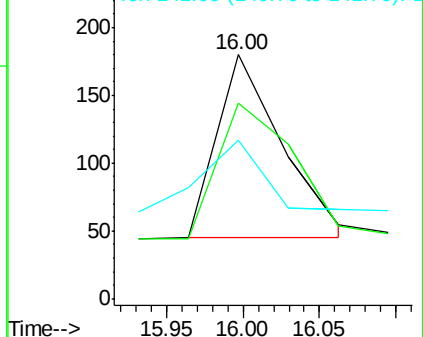
141 25.4 33.7 50.5#

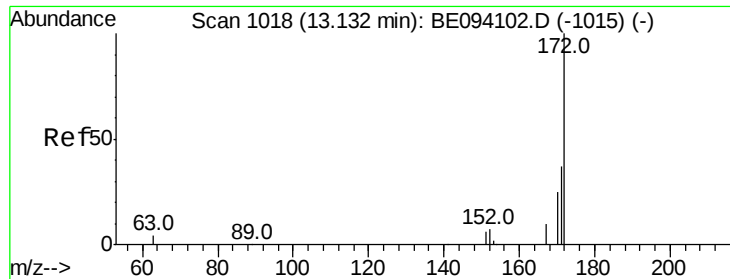


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

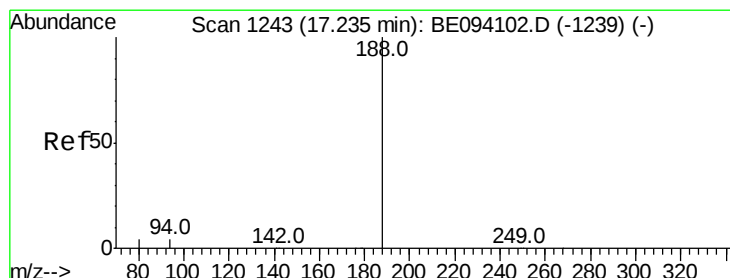
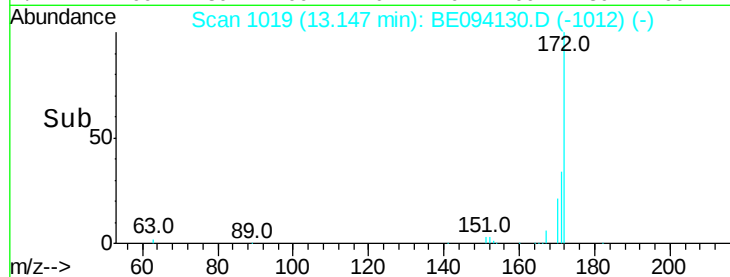
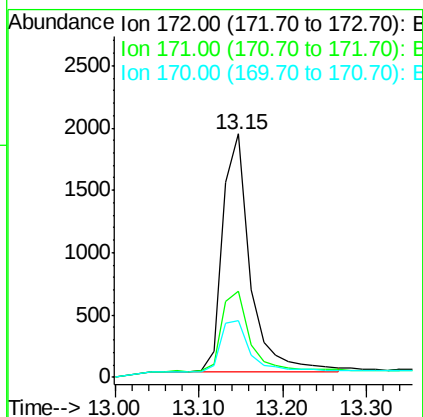
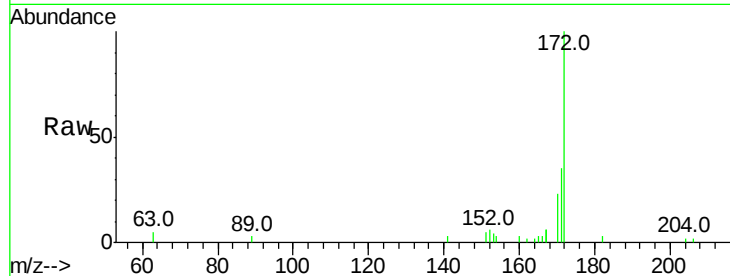




#15  
2-Fluorobiphenyl  
Concen: 0.313 ng  
RT: 13.15 min Scan# 1019  
Delta R.T. 0.02 min  
Lab File: BE094130.D  
Acq: 26 Sep 2017 16:02

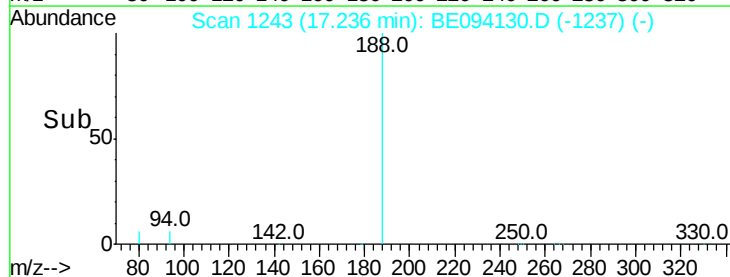
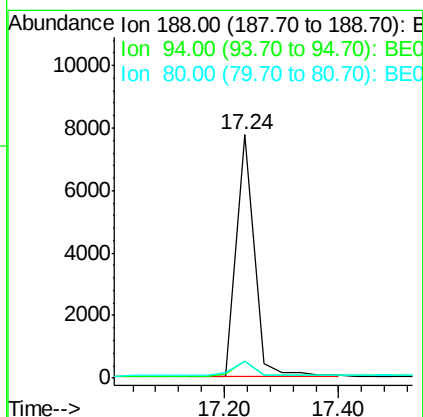
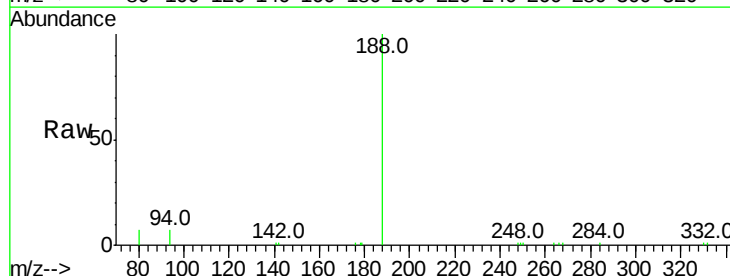
Instrument :  
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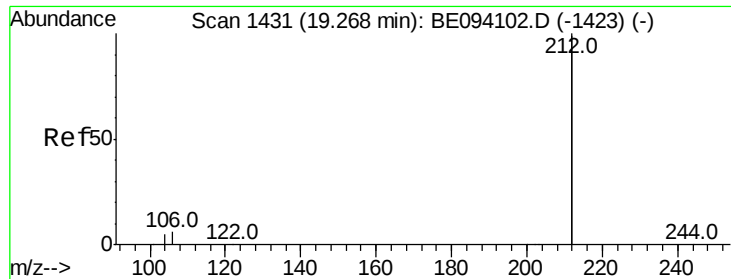
Tot Ion:172 Resp: 4320  
Ion Ratio Lower Upper  
172 100  
171 35.3 29.9 44.9  
170 23.3 21.8 32.8



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.24 min Scan# 1243  
Delta R.T. 0.00 min  
Lab File: BE094130.D  
Acq: 26 Sep 2017 16:02

Tgt Ion:188 Resp: 16591  
Ion Ratio Lower Upper  
188 100  
94 7.0 3.9 5.9#  
80 6.8 3.6 5.4#





#25

Fluoranthene-d10

Concen: 0.337 ng

RT: 19.27 min Scan# 1431

Delta R.T. -0.00 min

Lab File: BE094130.D

Acq: 26 Sep 2017 16:02

Instrument :

BNA\_E

ClientSampleId :

PB102616BL

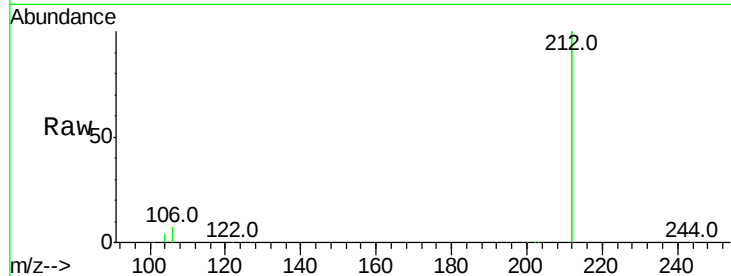
Tot Ion:212 Resp: 54202

Ion Ratio Lower Upper

212 100

106 3.4 2.8 4.2

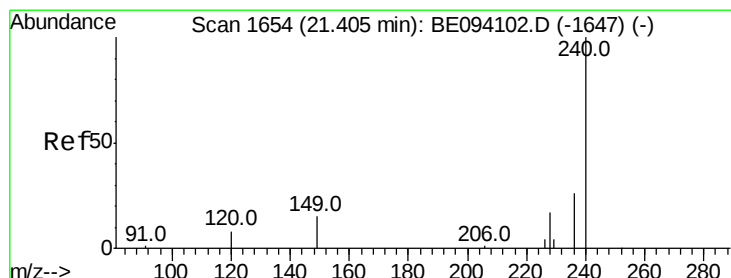
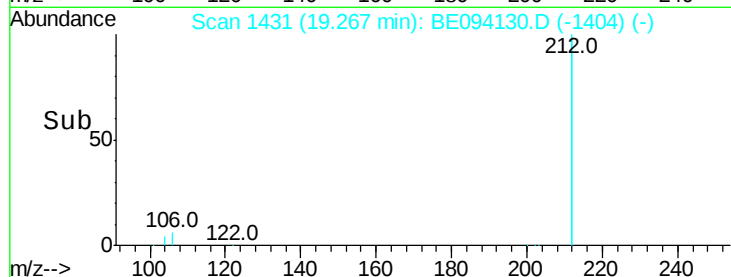
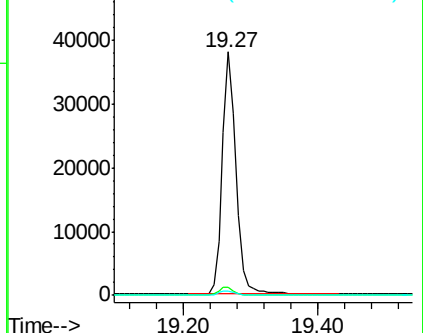
104 2.2 1.6 2.4



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: 0.400 ng

RT: 21.40 min Scan# 1654

Delta R.T. -0.00 min

Lab File: BE094130.D

Acq: 26 Sep 2017 16:02

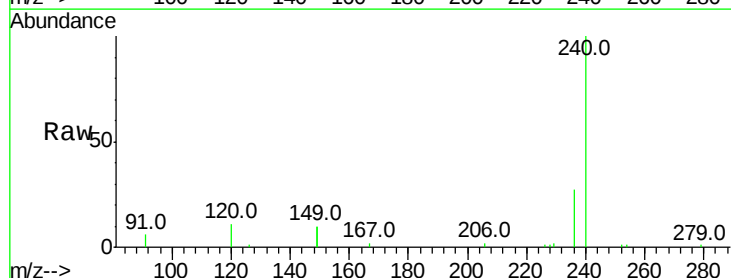
Tgt Ion:240 Resp: 15231

Ion Ratio Lower Upper

240 100

120 11.4 5.5 8.3#

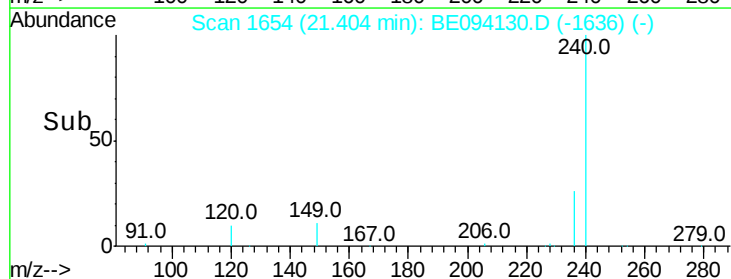
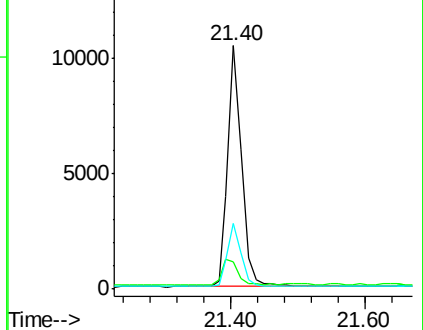
236 27.2 20.7 31.1

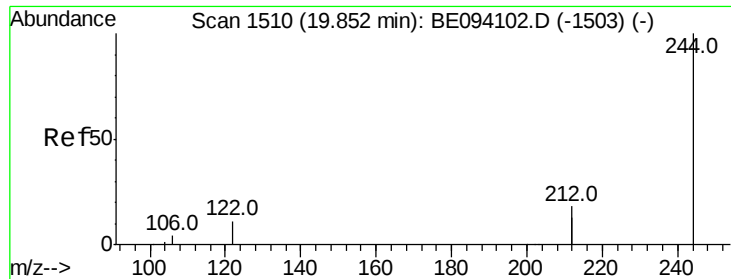


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.326 ng

RT: 19.85 min Scan# 1510

Delta R.T. -0.00 min

Lab File: BE094130.D

Acq: 26 Sep 2017 16:02

Instrument :

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ClientSampleId :

PB102616BL

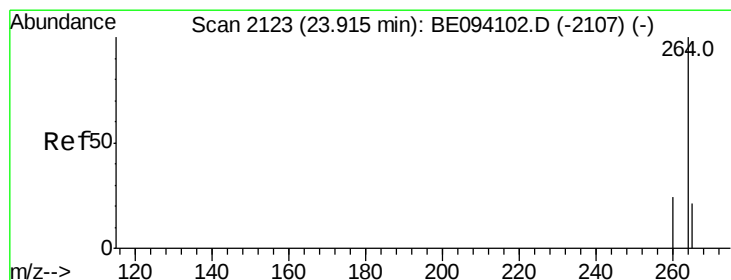
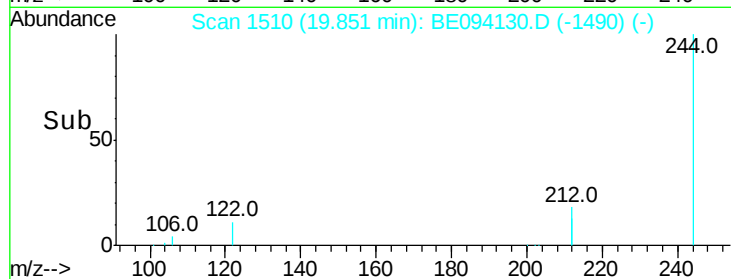
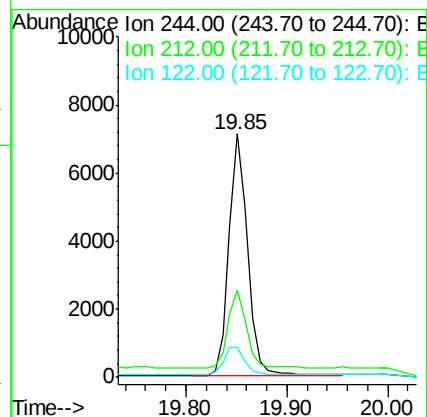
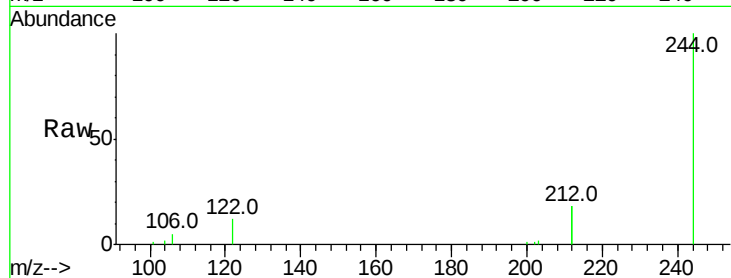
Tot Ion:244 Resp: 9059

Ion Ratio Lower Upper

244 100

212 35.9 25.4 38.0

122 12.2 8.1 12.1#



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.91 min Scan# 2122

Delta R.T. -0.00 min

Lab File: BE094130.D

Acq: 26 Sep 2017 16:02

Tgt Ion:264 Resp: 14559

Ion Ratio Lower Upper

264 100

260 25.7 20.5 30.7

265 30.6 22.8 34.2

