

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE090617\  
 Data File : BE093952.D  
 Acq On : 6 Sep 2017 10:50  
 Operator : SJ/JU  
 Sample : PB102046BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Sep 06 18:21:51 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE090517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 05 13:34:56 2017  
 Response via : Initial Calibration

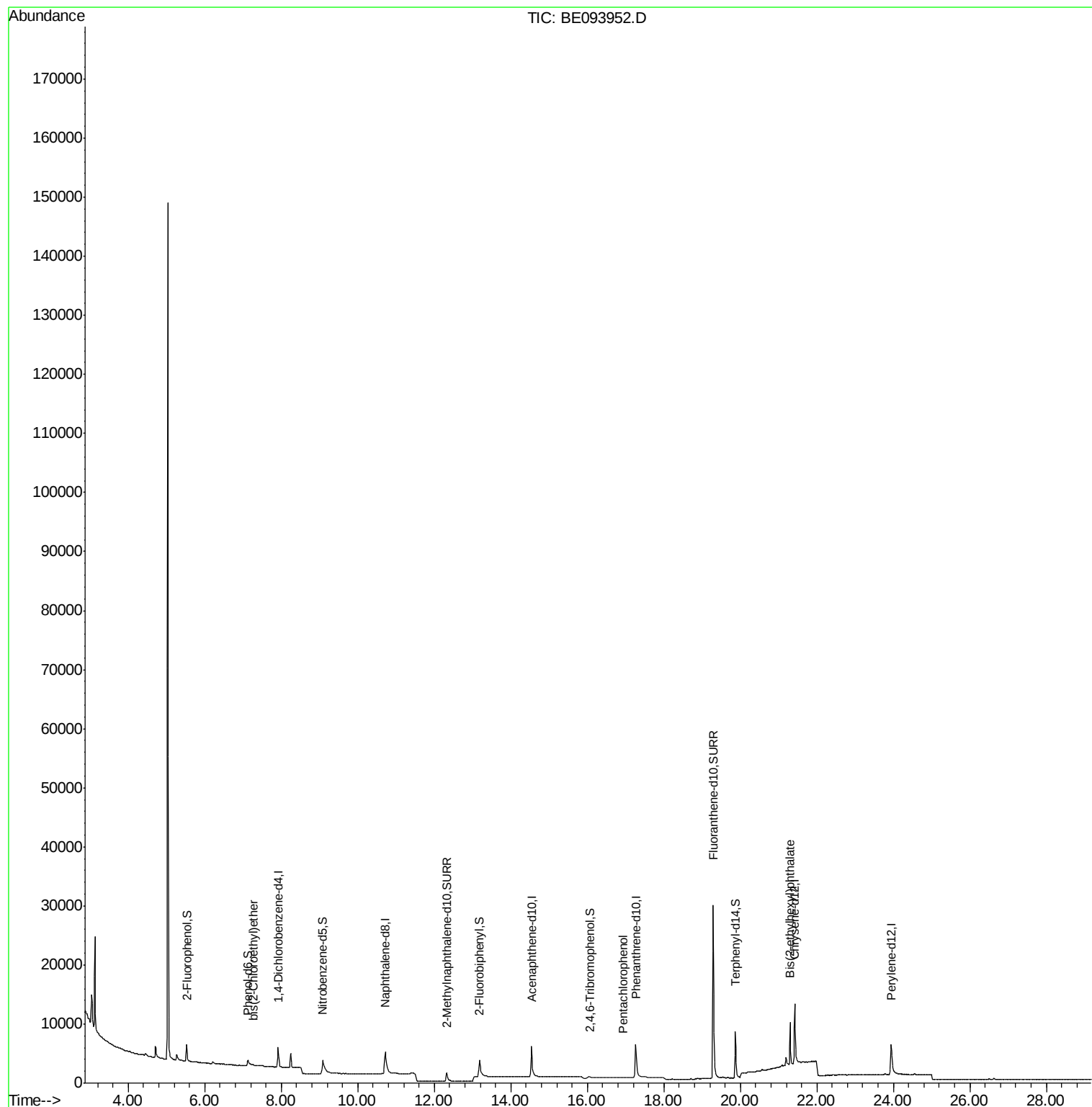
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.92  | 152  | 1774     | 0.40      | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.72 | 136  | 8296     | 0.40      | ng    | 0.02     |
| 13) Acenaphthene-d10           | 14.54 | 164  | 5029     | 0.40      | ng    | 0.02     |
| 19) Phenanthrene-d10           | 17.27 | 188  | 13355    | 0.40      | ng    | 0.00     |
| 27) Chrysene-d12               | 21.43 | 240  | 14211    | 0.40      | ng    | 0.00     |
| 34) Perylene-d12               | 23.94 | 264  | 11077    | 0.40      | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 4) 2-Fluorophenol              | 5.53  | 112  | 1902     | 0.33      | ng    | 0.00     |
| 5) Phenol-d6                   | 7.13  | 99   | 2264     | 0.26      | ng    | 0.01     |
| 8) Nitrobenzene-d5             | 9.08  | 82   | 2210     | 0.31      | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10    | 12.32 | 152  | 4558     | 0.34      | ng    | 0.03     |
| 14) 2,4,6-Tribromophenol       | 16.06 | 330  | 364      | 0.23      | ng    | 0.03     |
| 15) 2-Fluorobiphenyl           | 13.18 | 172  | 6010     | 0.30      | ng    | 0.02     |
| 25) Fluoranthene-d10           | 19.29 | 212  | 52789    | 0.27      | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.87 | 244  | 9923     | 0.38      | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 6) bis(2-Chloroethyl)ether     | 7.27  | 93   | 218      | 0.031     | ng    | # 1      |
| 20) 4-Bromophenyl-phenylether  | 16.45 | 248  | 20       | Below Cal | #     | 41       |
| 22) Pentachlorophenol          | 16.94 | 266  | 49       | 0.023     | ng    | # 72     |
| 23) Phenanthrene               | 17.30 | 178  | 131      | Below Cal | #     | 11       |
| 32) Bis(2-ethylhexyl)phthalate | 21.30 | 149  | 8297     | 0.078     | ng    | # 99     |

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

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BNA\_E  
ClientSampleId :

Quant Time: Sep 06 18:21:51 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE090517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 05 13:34:56 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.92 min Scan# 402

Delta R.T. 0.00 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

Instrument :

BNA\_E

ClientSampleId :

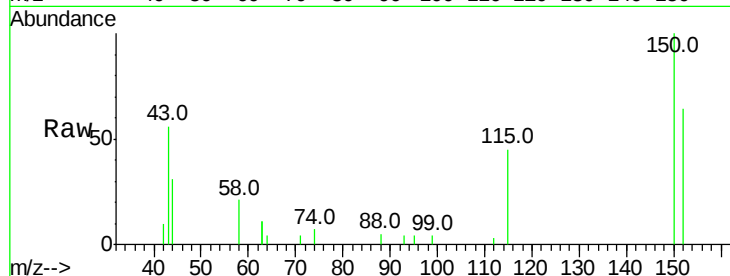
Tot Ion:152 Resp: 1774

Ion Ratio Lower Upper

152 100

150 155.4 121.8 182.6

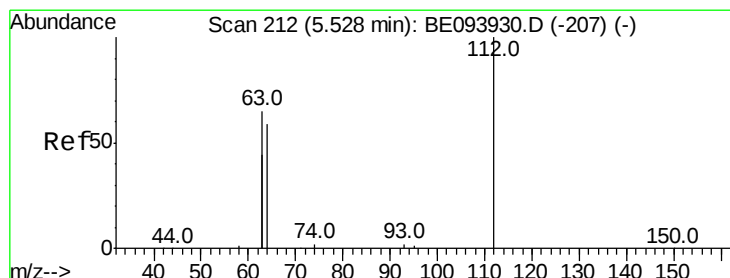
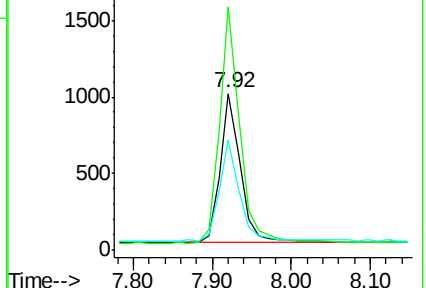
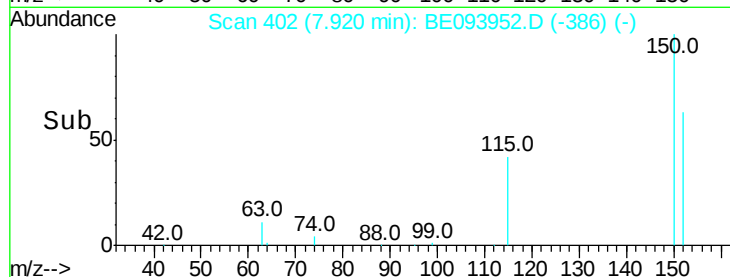
115 70.3 52.6 79.0



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: 0.331 ng

RT: 5.53 min Scan# 212

Delta R.T. 0.00 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

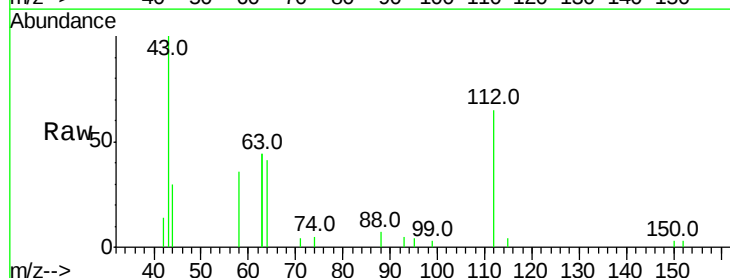
Tgt Ion:112 Resp: 1902

Ion Ratio Lower Upper

112 100

64 71.9 57.7 86.5

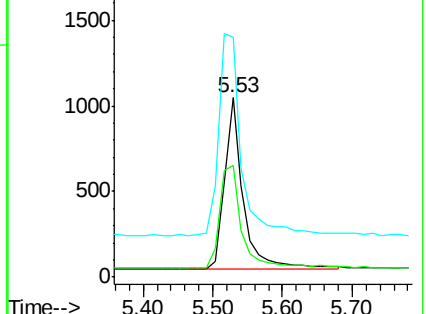
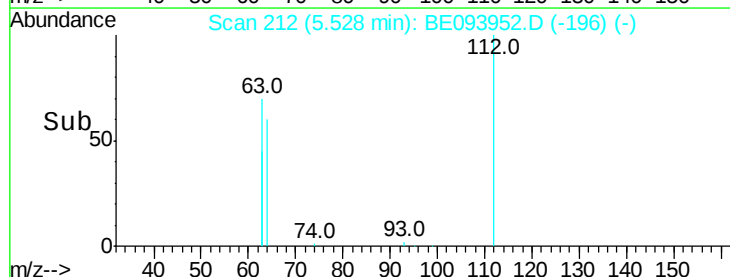
63 144.7 116.0 174.0

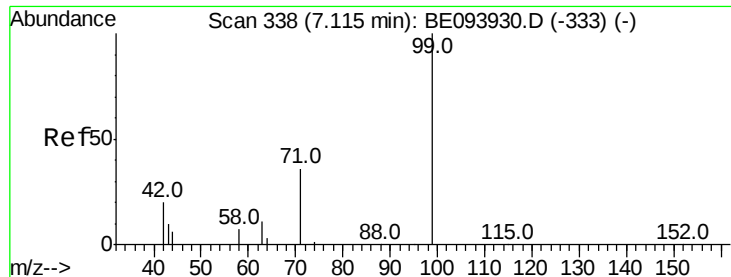


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.263 ng

RT: 7.13 min Scan# 339

Delta R.T. 0.01 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

Instrument :

BNA\_E

ClientSampleId :

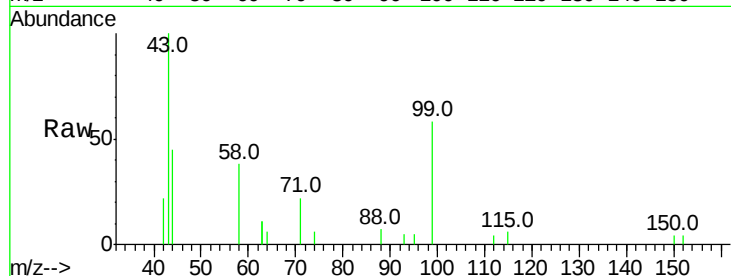
Tot Ion: 99 Resp: 2264

Ion Ratio Lower Upper

99 100

42 21.0 17.1 25.7

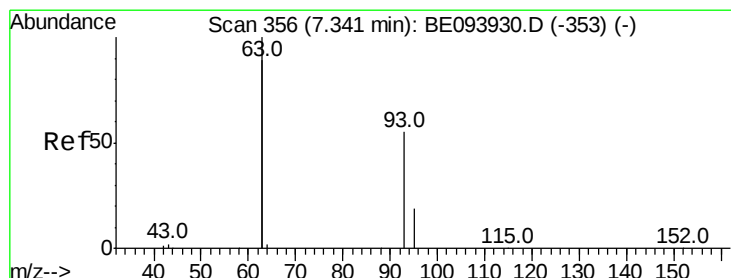
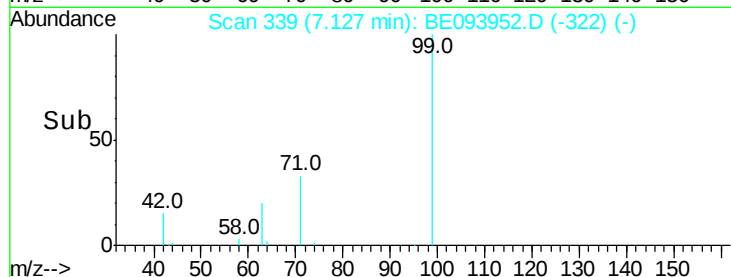
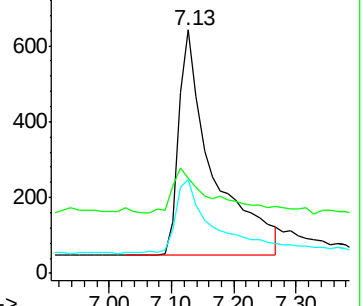
71 35.8 26.6 39.8



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



#6

bis(2-Chloroethyl)ether

Concen: 0.031 ng

RT: 7.27 min Scan# 350

Delta R.T. -0.08 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

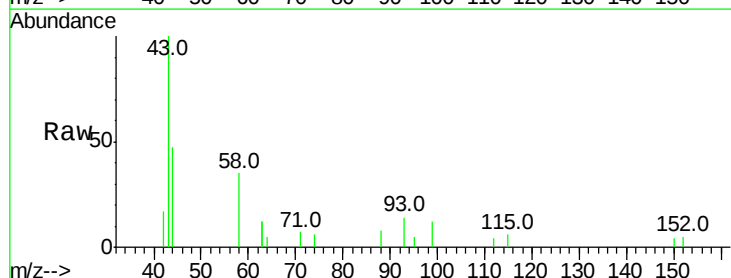
Tgt Ion: 93 Resp: 218

Ion Ratio Lower Upper

93 100

63 33.5 283.4 425.2#

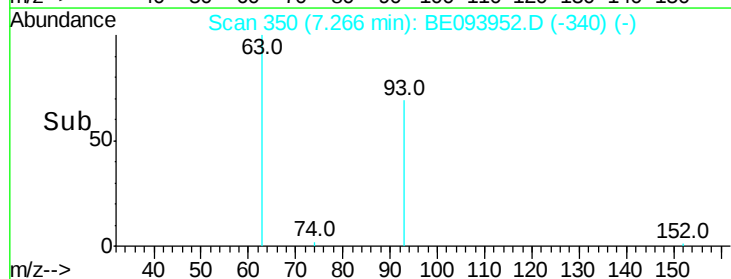
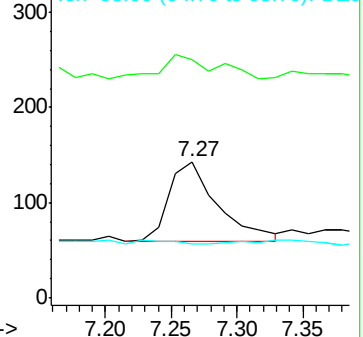
95 0.0 26.9 40.3#

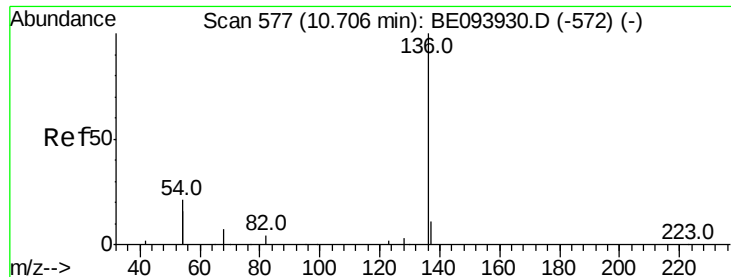


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.72 min Scan# 578

Delta R.T. 0.02 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 8296

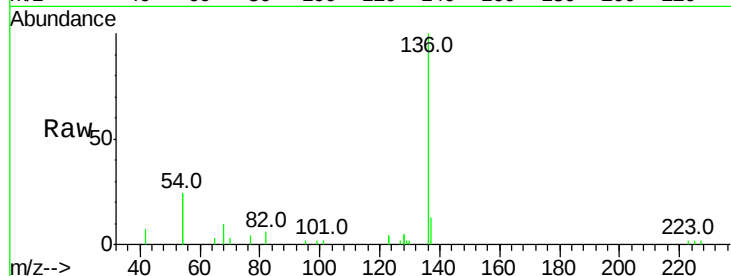
Ion Ratio Lower Upper

136 100

137 13.0 9.2 13.8

54 47.7 21.9 32.9#

68 9.7 4.6 7.0#

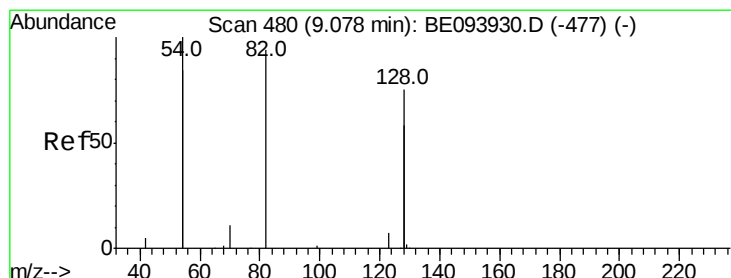
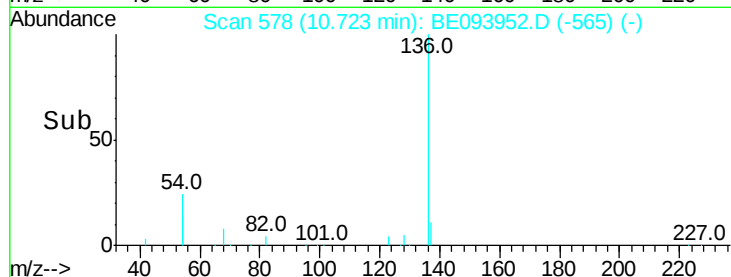
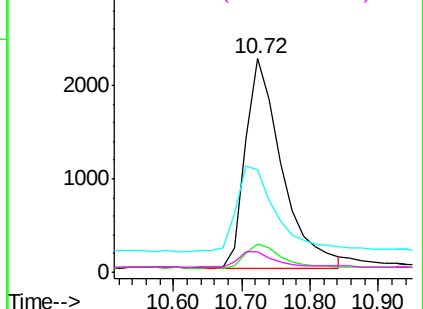


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.315 ng

RT: 9.08 min Scan# 480

Delta R.T. 0.00 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

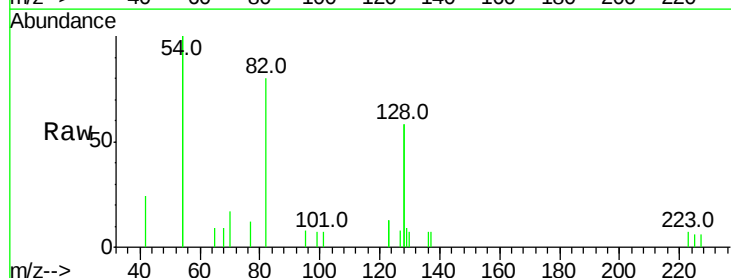
Tgt Ion: 82 Resp: 2210

Ion Ratio Lower Upper

82 100

128 144.7 91.4 137.0#

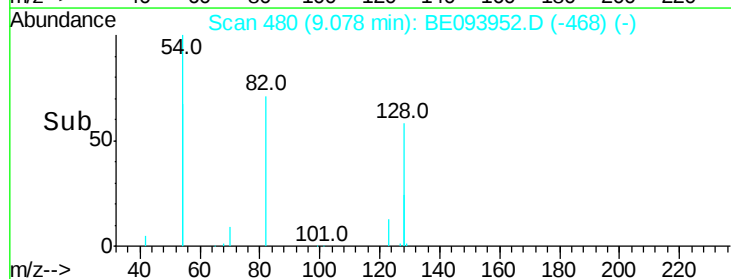
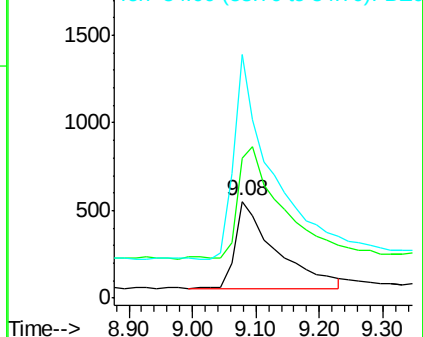
54 251.4 197.8 296.8

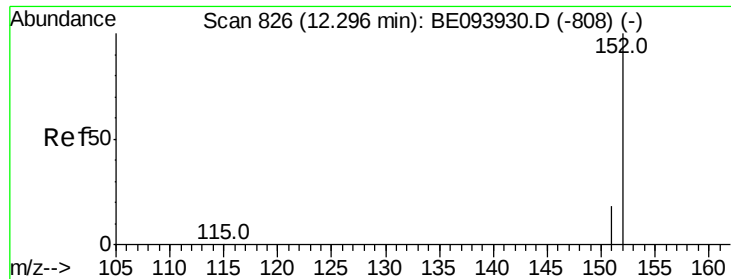


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#11

2-Methylnaphthalene-d10

Concen: 0.343 ng

RT: 12.32 min Scan# 833

Delta R.T. 0.03 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

Instrument :

BNA\_E

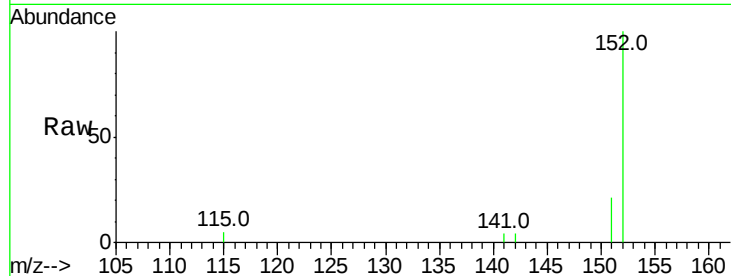
ClientSampleId :

Tot Ion:152 Resp: 4558

Ion Ratio Lower Upper

152 100

151 18.8 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.32

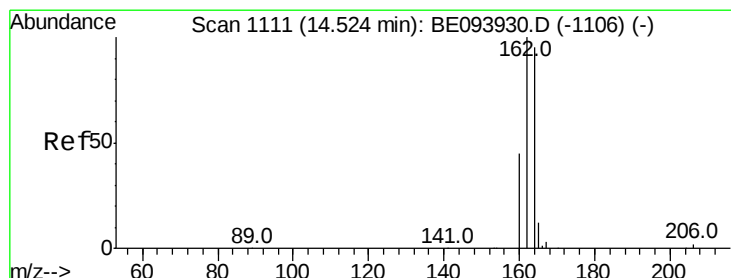
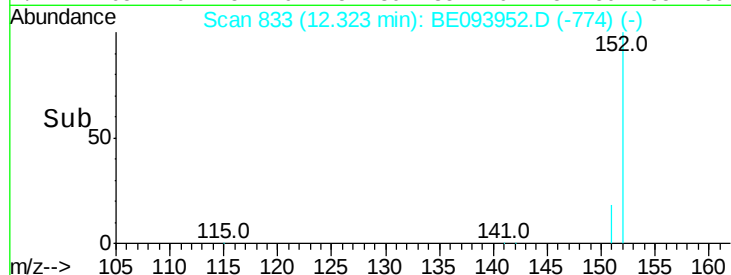
1500

1000

500

0

Time--> 12.20 12.40



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.54 min Scan# 1113

Delta R.T. 0.02 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

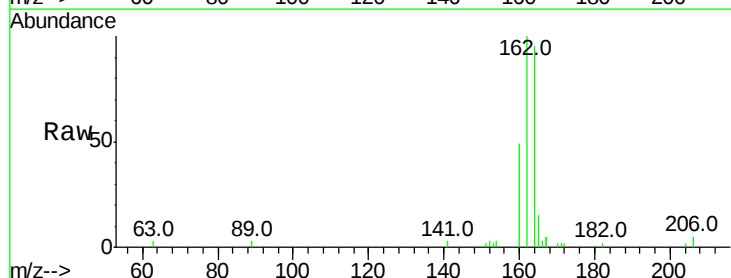
Tgt Ion:164 Resp: 5029

Ion Ratio Lower Upper

164 100

162 105.8 80.8 121.2

160 51.7 37.0 55.4



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

14.54

2500

2000

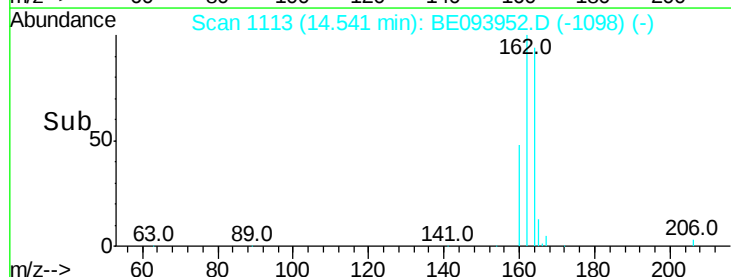
1500

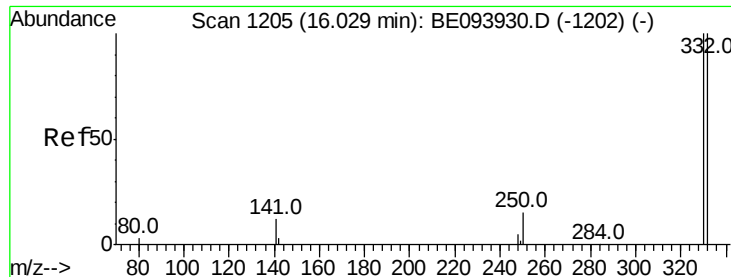
1000

500

0

Time--> 14.40 14.60

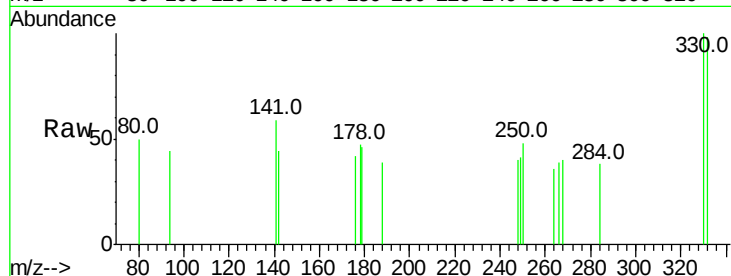




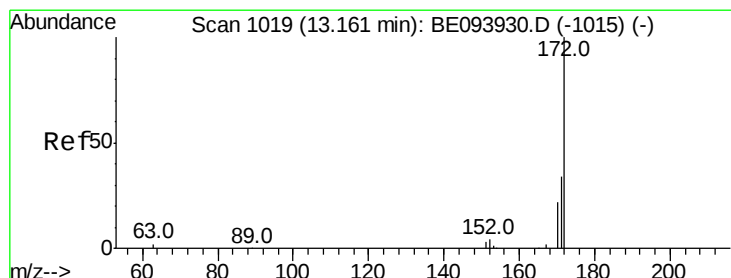
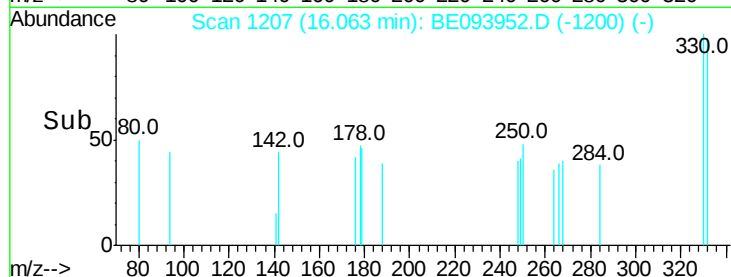
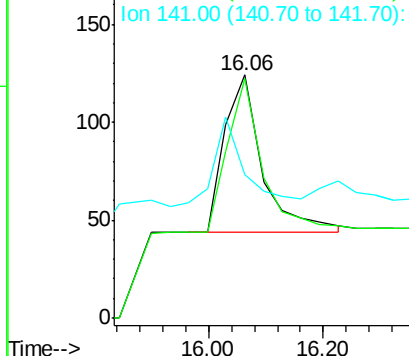
#14  
 2,4,6-Tribromophenol  
 Concen: 0.234 ng  
 RT: 16.06 min Scan# 1207  
 Delta R.T. 0.03 min  
 Lab File: BE093952.D  
 Acq: 6 Sep 2017 10:50

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:330 Resp: 364  
 Ion Ratio Lower Upper  
 330 100  
 332 91.2 76.9 115.3  
 141 0.0 0.0 0.0

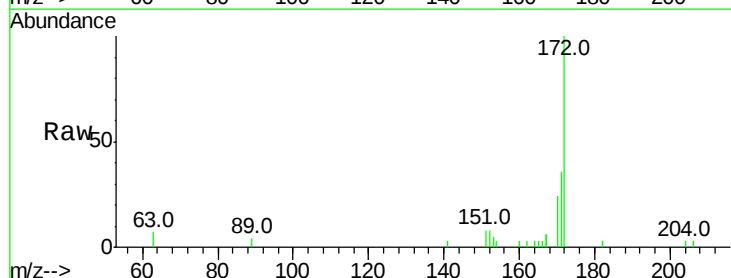


Abundance Ion 330.00 (329.70 to 330.70): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

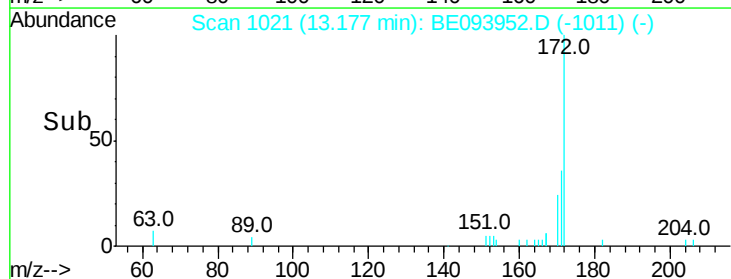
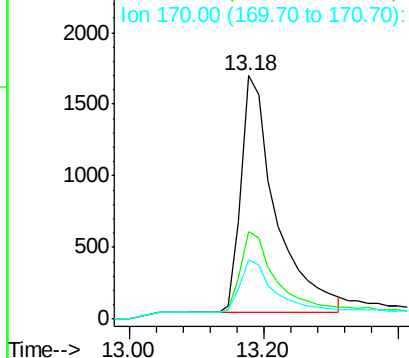


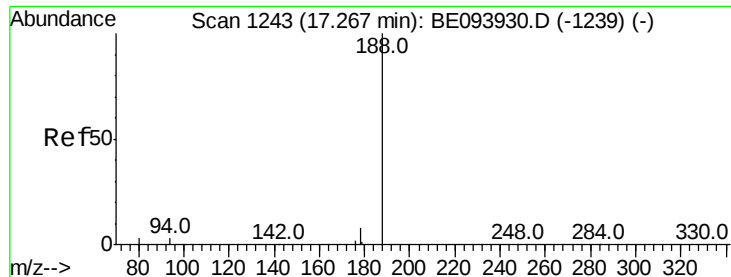
#15  
 2-Fluorobiphenyl  
 Concen: 0.302 ng  
 RT: 13.18 min Scan# 1021  
 Delta R.T. 0.02 min  
 Lab File: BE093952.D  
 Acq: 6 Sep 2017 10:50

Tgt Ion:172 Resp: 6010  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 26.9 40.3  
 170 24.2 17.3 25.9



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

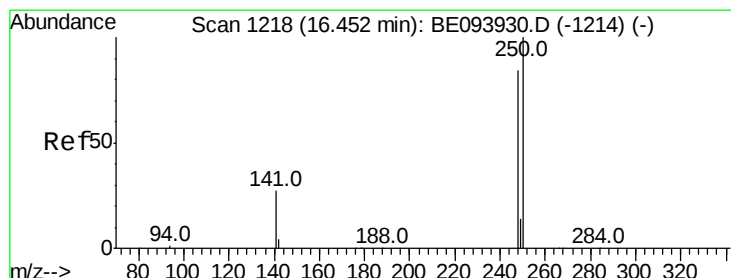
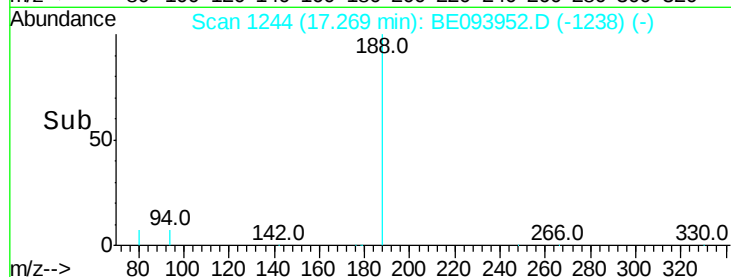
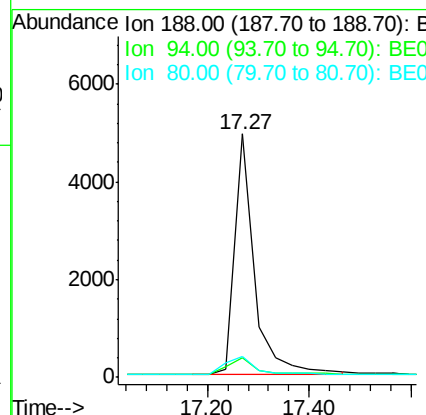
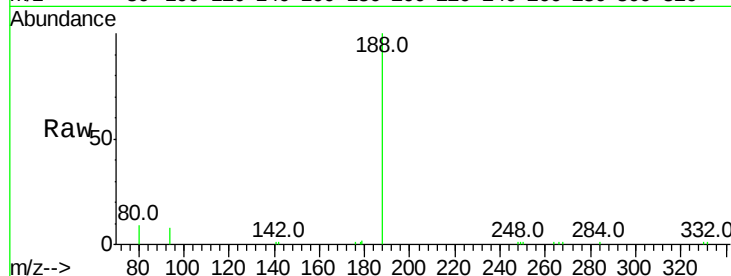




#19  
 Phenanthrene-d10  
 Concen: 0.400 ng  
 RT: 17.27 min Scan# 1244  
 Delta R.T. 0.00 min  
 Lab File: BE093952.D  
 Acq: 6 Sep 2017 10:50

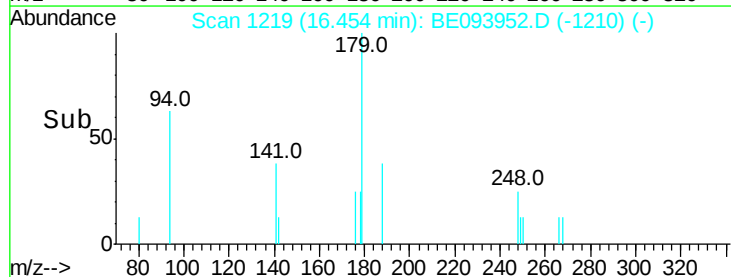
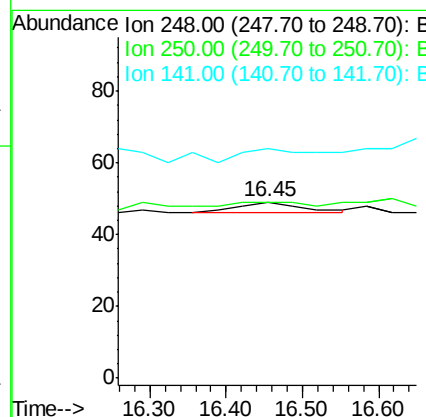
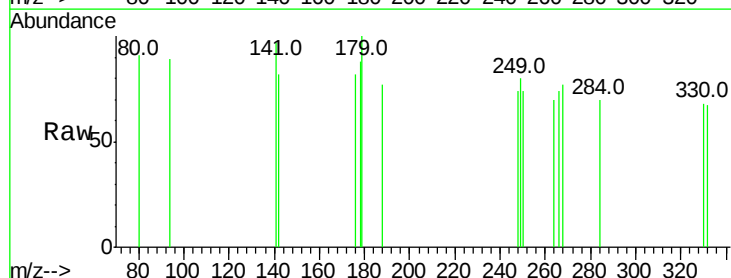
Instrument :  
 BNA\_E  
 ClientSampleId :

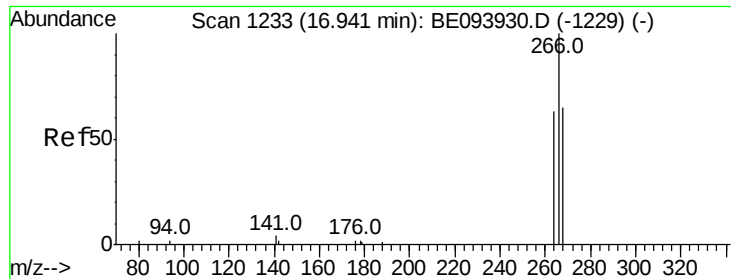
Tot Ion:188 Resp: 13355  
 Ion Ratio Lower Upper  
 188 100  
 94 8.3 16.1 24.1#  
 80 8.6 18.2 27.2#



#20  
 4-Bromophenyl-phenylether  
 Concen: Below Cal  
 RT: 16.45 min Scan# 1219  
 Delta R.T. 0.00 min  
 Lab File: BE093952.D  
 Acq: 6 Sep 2017 10:50

Tgt Ion:248 Resp: 20  
 Ion Ratio Lower Upper  
 248 100  
 250 100.0 111.8 167.8#  
 141 130.6 27.1 40.7#





#22

Pentachlorophenol

Concen: 0.023 ng

RT: 16.94 min Scan# 1234

Delta R.T. 0.00 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

Instrument :

BNA\_E

ClientSampleId :

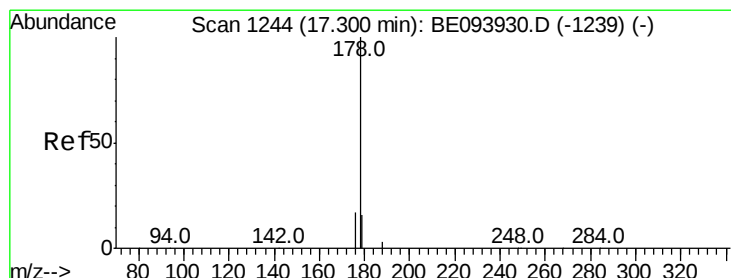
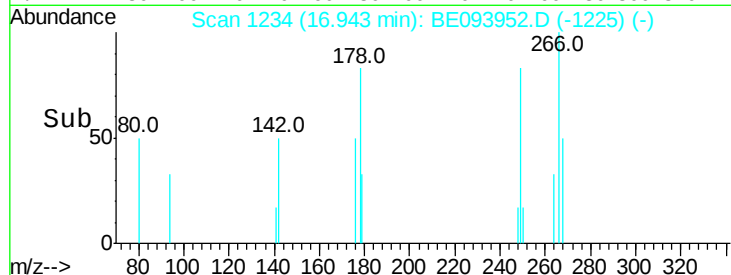
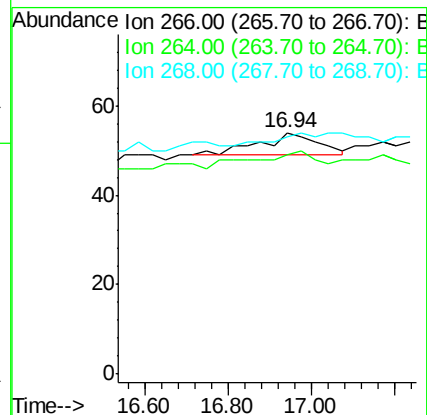
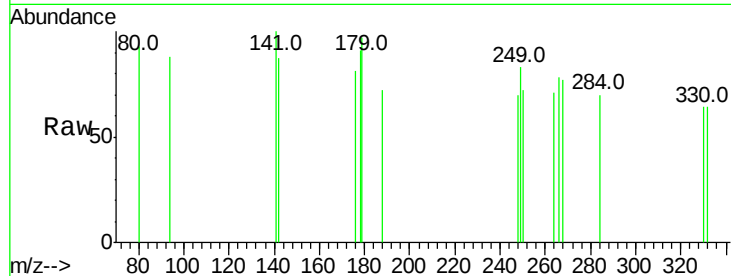
Tot Ion:266 Resp: 49

Ion Ratio Lower Upper

266 100

264 90.7 53.5 80.3#

268 98.1 60.0 90.0#



#23

Phenanthrene

Concen: Below Cal

RT: 17.30 min Scan# 1245

Delta R.T. 0.00 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

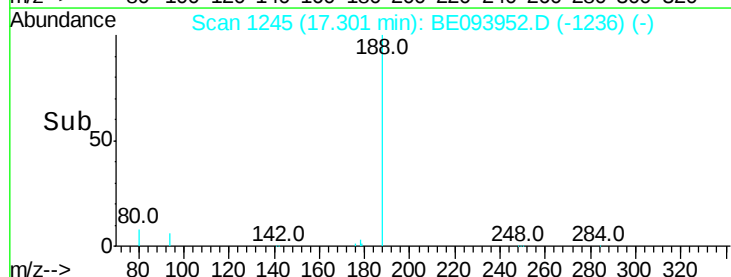
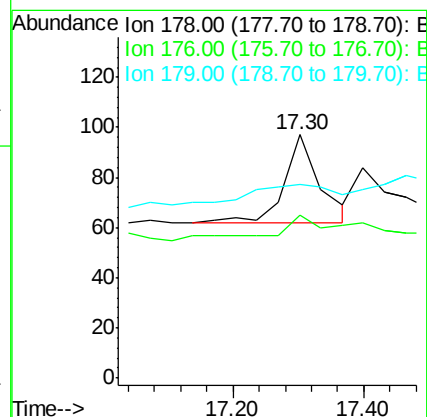
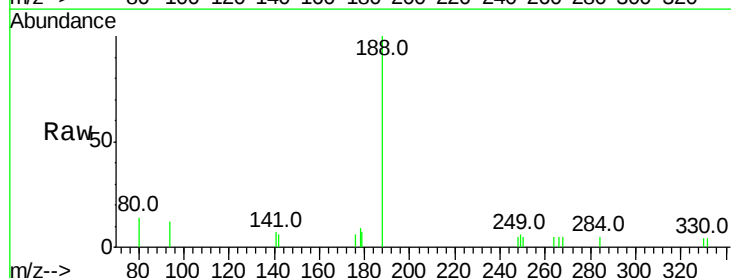
Tgt Ion:178 Resp: 131

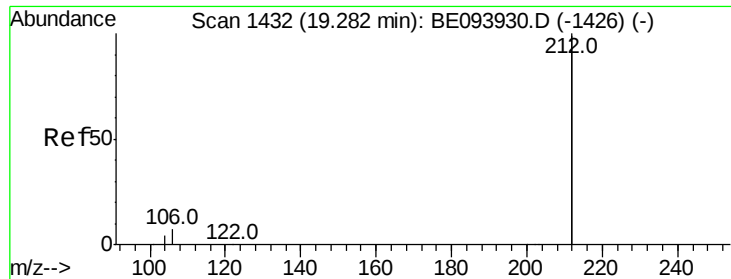
Ion Ratio Lower Upper

178 100

176 40.5 0.0 0.0#

179 53.4 12.6 18.8#





#25

Fluoranthene-d10

Concen: 0.265 ng

RT: 19.29 min Scan# 1434

Delta R.T. 0.01 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

Instrument :

BNA\_E

ClientSampleId :

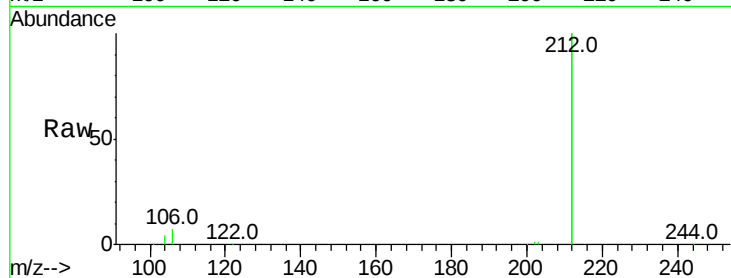
Tot Ion:212 Resp: 52789

Ion Ratio Lower Upper

212 100

106 3.5 2.7 4.1

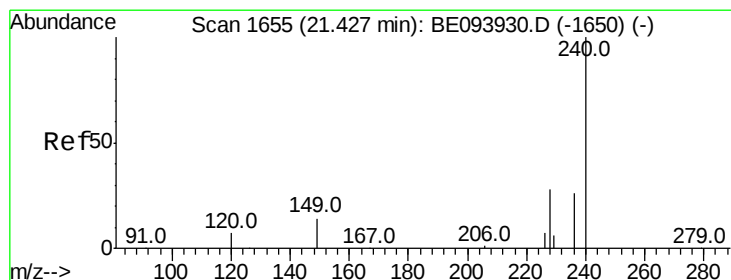
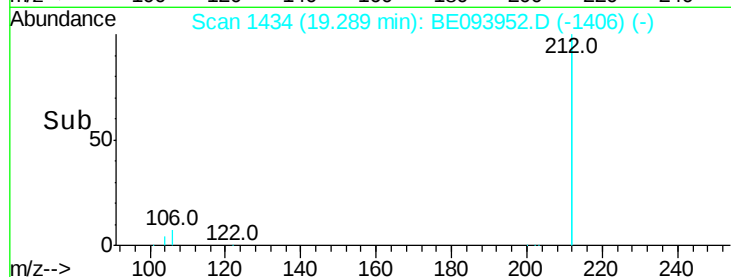
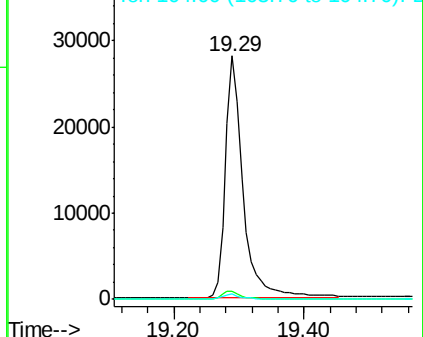
104 1.9 1.6 2.4



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: 21.43 min Scan# 1656

Delta R.T. 0.00 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

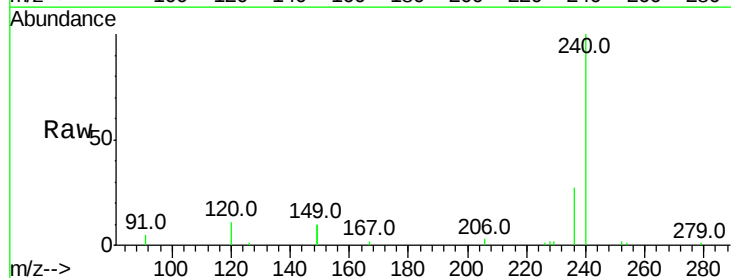
Tgt Ion:240 Resp: 14211

Ion Ratio Lower Upper

240 100

120 10.8 8.7 13.1

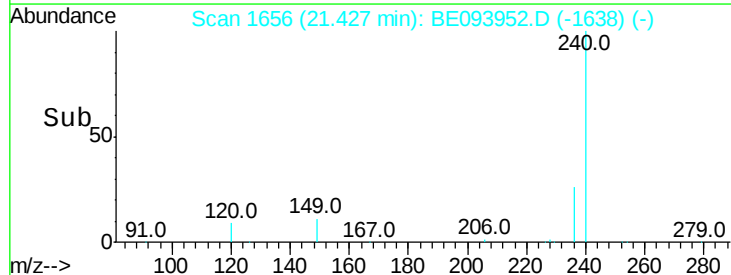
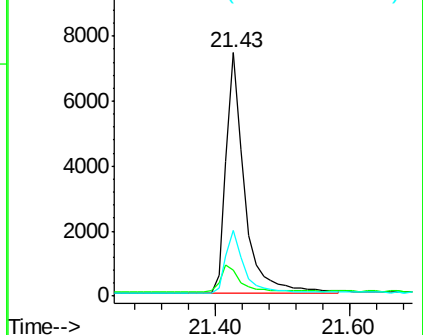
236 27.0 21.3 31.9

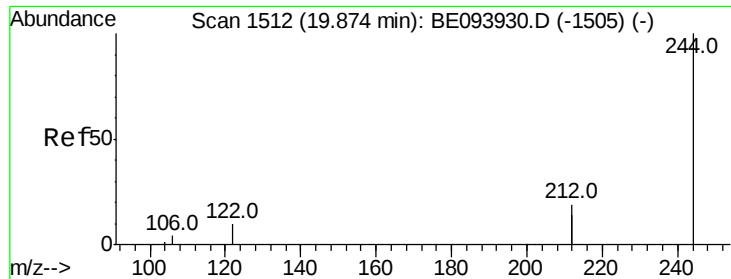


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.379 ng

RT: 19.87 min Scan# 1513

Delta R.T. -0.00 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

Instrument :

BNA\_E

ClientSampleId :

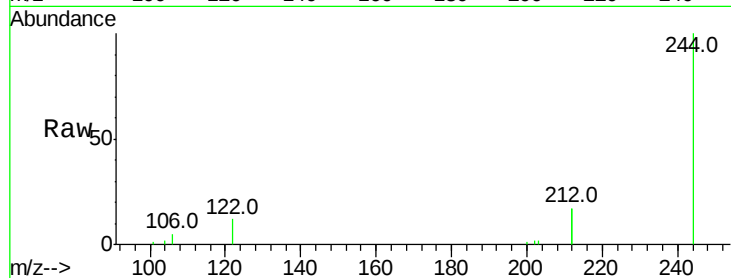
Tot Ion:244 Resp: 9923

Ion Ratio Lower Upper

244 100

212 34.2 28.3 42.5

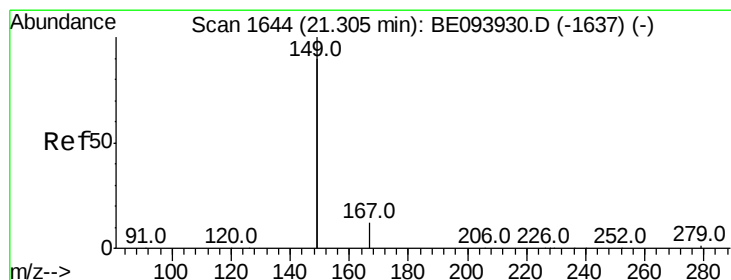
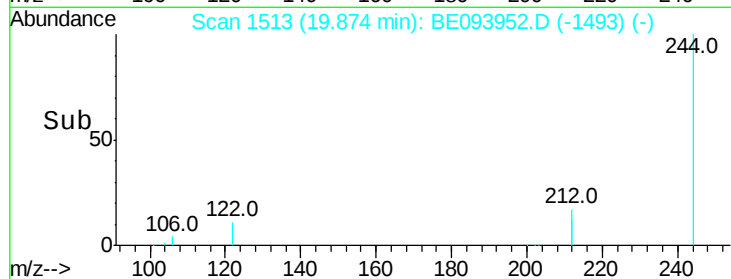
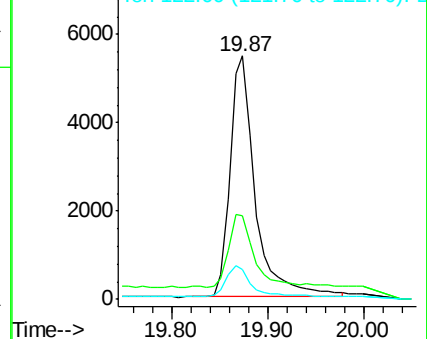
122 12.1 9.4 14.0



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.078 ng

RT: 21.30 min Scan# 1645

Delta R.T. 0.00 min

Lab File: BE093952.D

Acq: 6 Sep 2017 10:50

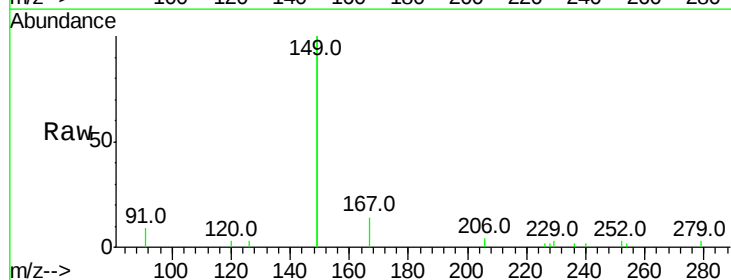
Tgt Ion:149 Resp: 8297

Ion Ratio Lower Upper

149 100

167 7.1 5.4 8.0

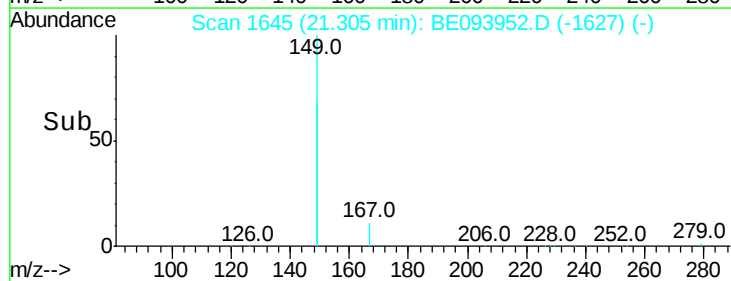
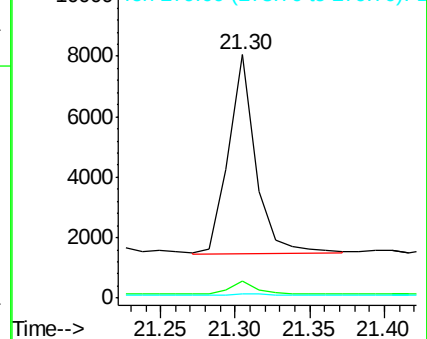
279 1.2 0.7 1.1#

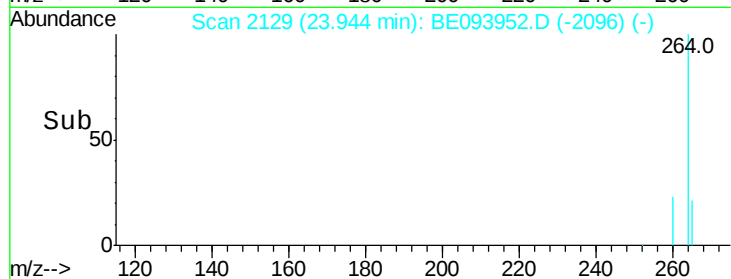
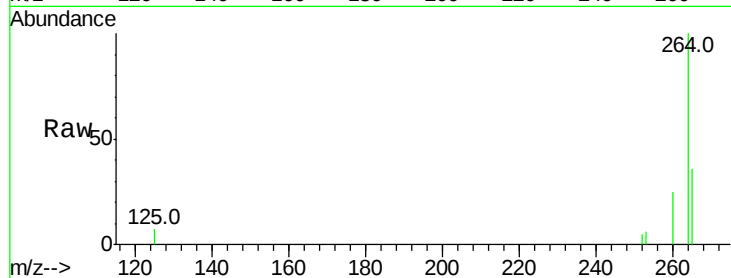
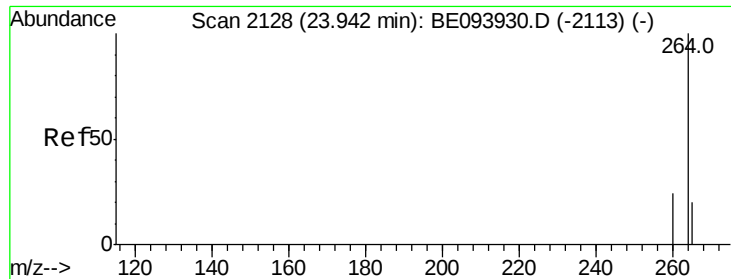


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#34  
 Pervlene-d12  
 Concen: 0.400 ng  
 RT: 23.94 min Scan# 2129  
 Delta R.T. 0.00 min  
 Lab File: BE093952.D  
 Acq: 6 Sep 2017 10:50

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:264 Resp: 11077  
 Ion Ratio Lower Upper  
 264 100  
 260 25.0 20.0 30.0  
 265 36.4 24.0 36.0#

