

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE091117\  
 Data File : BE093970.D  
 Acq On : 11 Sep 2017 19:37  
 Operator : SJ/JU  
 Sample : I5167-10  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C19013061

Quant Time: Sep 12 07:43:45 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  | 2501     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.71 | 136  | 13125    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.52 | 164  | 8963     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.24 | 188  | 20582    | 0.40 | ng    | -0.03    |
| 27) Chrysene-d12          | 21.41 | 240  | 19026    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.93 | 264  | 15432    | 0.40 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.53  | 112  | 1177     | 0.15 | ng    | 0.00     |
| 5) Phenol-d6                | 7.11  | 99   | 1008     | 0.08 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 9.06  | 82   | 3590     | 0.32 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10 | 12.28 | 152  | 6245     | 0.30 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol    | 16.00 | 330  | 759      | 0.27 | ng    | -0.03    |
| 15) 2-Fluorobiphenyl        | 13.15 | 172  | 9448     | 0.27 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 19.27 | 212  | 65227    | 0.21 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.86 | 244  | 27522    | 0.79 | ng    | -0.02    |

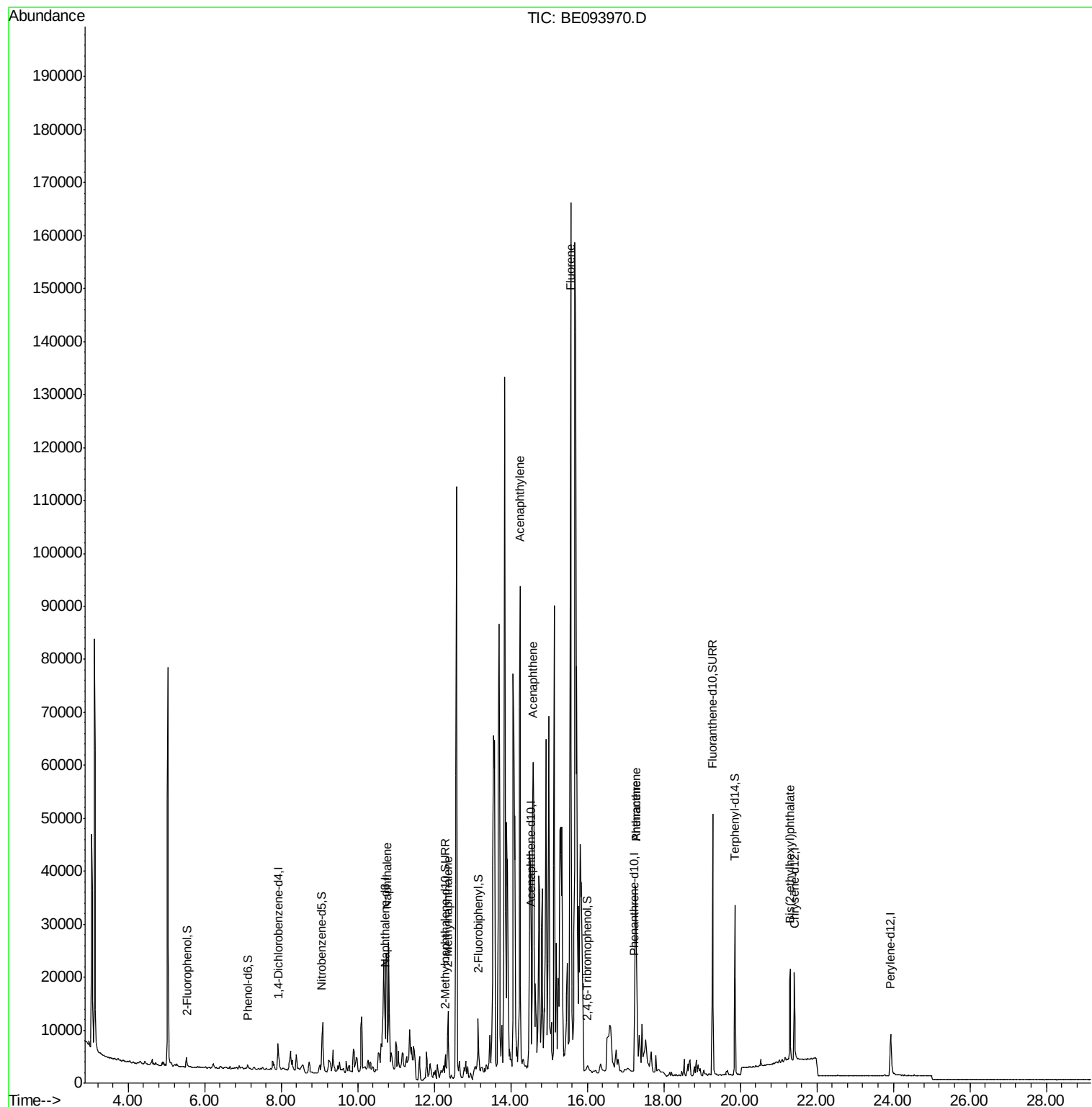
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Naphthalene                 | 10.76 | 128  | 38392    | 0.255     | ng    | # 85   |
| 12) 2-Methylnaphthalene        | 12.36 | 142  | 9547     | 0.382     | ng    | # 95   |
| 16) Acenaphthylene             | 14.24 | 152  | 15188    | 0.339     | ng    | # 1    |
| 17) Acenaphthene               | 14.58 | 154  | 30947    | 1.024     | ng    | # 86   |
| 18) Fluorene                   | 15.56 | 166  | 76391    | 1.959     | ng    | # 90   |
| 20) 4-Bromophenyl-phenylether  | 16.23 | 248  | 74       | Below Cal |       | # 1    |
| 23) Phenanthrene               | 17.27 | 178  | 83596    | 1.595     | ng    | # 94   |
| 24) Anthracene                 | 17.27 | 178  | 85841    | 1.370     | ng    | # 92   |
| 32) Bis(2-ethylhexyl)phthalate | 21.30 | 149  | 23481    | 0.165     | ng    | # 95   |

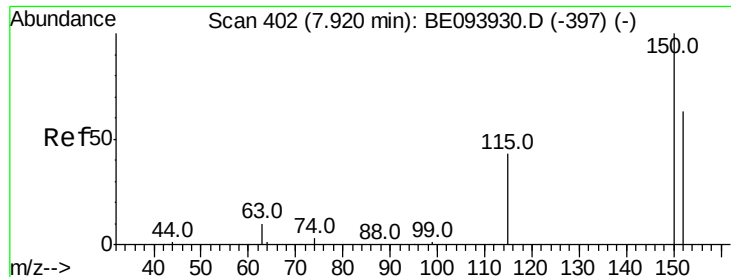
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_E  
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C19013061

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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Response via : Initial Calibration



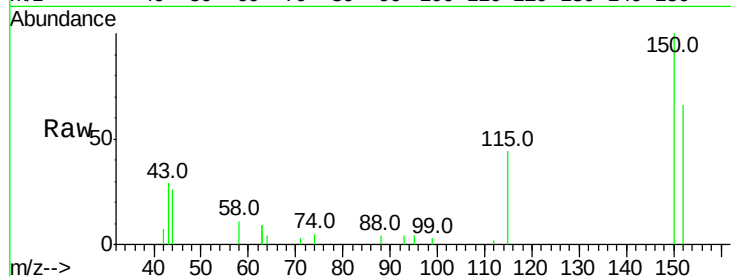


#1

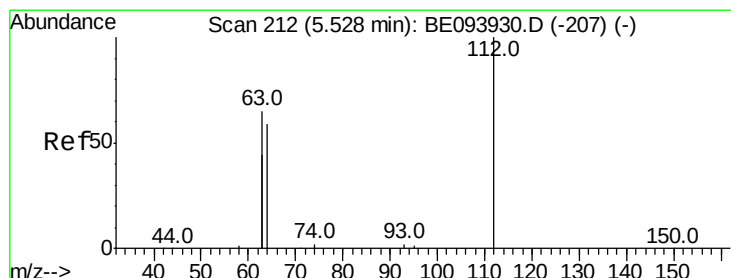
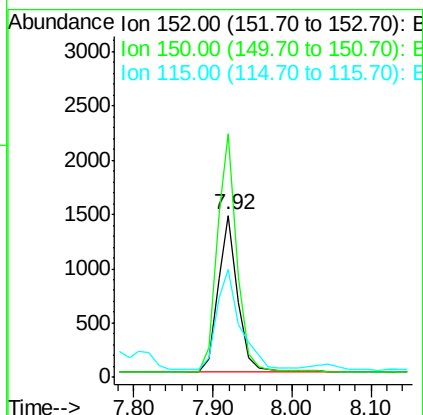
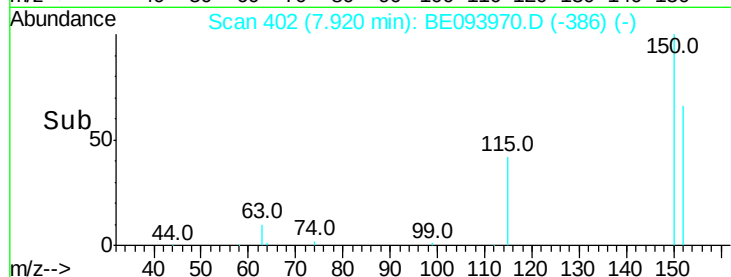
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.92 min Scan# 402  
Delta R.T. -0.00 min  
Lab File: BE093970.D  
Acq: 11 Sep 2017 19:37

Instrument :  
BNA\_E  
ClientSampleId :  
C19013061

Tot Ion:152 Resp: 2501  
Ion Ratio Lower Upper  
152 100  
150 150.5 121.8 182.6  
115 66.7 52.6 79.0



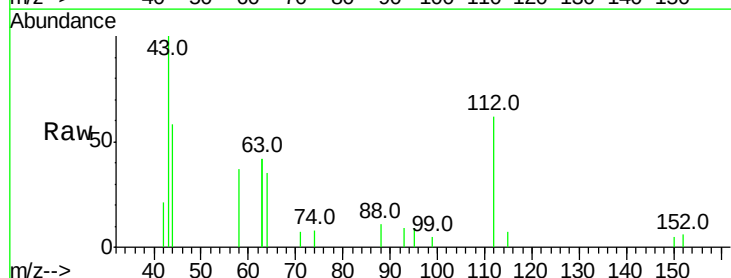
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



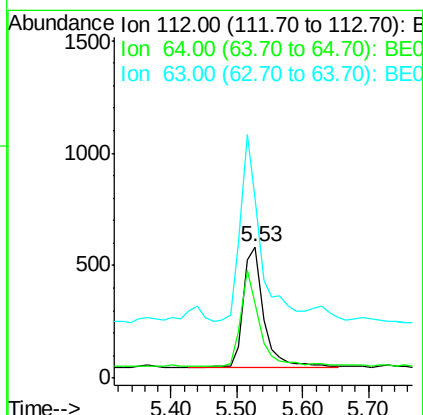
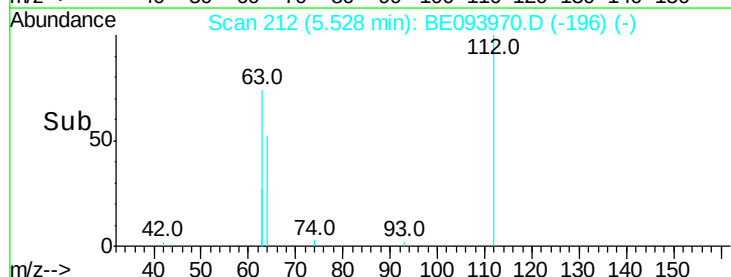
#4

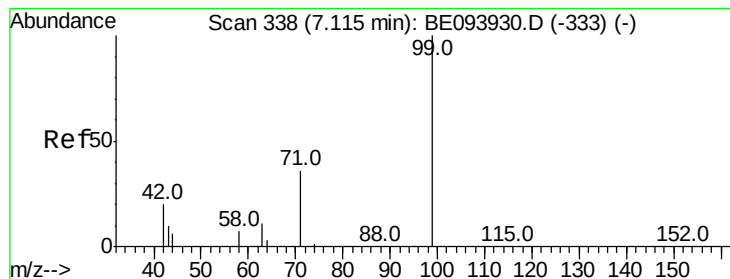
2-Fluorophenol  
Concen: 0.145 ng  
RT: 5.53 min Scan# 212  
Delta R.T. -0.00 min  
Lab File: BE093970.D  
Acq: 11 Sep 2017 19:37

Tgt Ion:112 Resp: 1177  
Ion Ratio Lower Upper  
112 100  
64 71.5 57.7 86.5  
63 146.0 116.0 174.0



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: 0.083 ng

RT: 7.11 min Scan# 338

Delta R.T. -0.00 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

Instrument :

BNA\_E

ClientSampleId :

C19013061

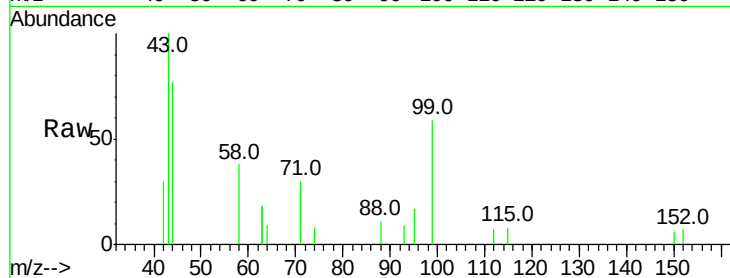
Tot Ion: 99 Resp: 1008

Ion Ratio Lower Upper

99 100

42 19.1 17.1 25.7

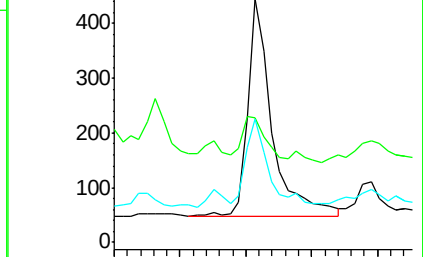
71 34.8 26.6 39.8



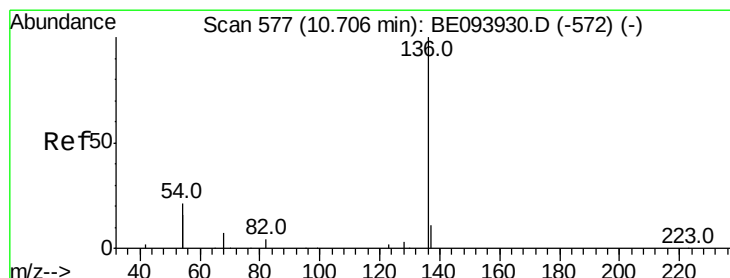
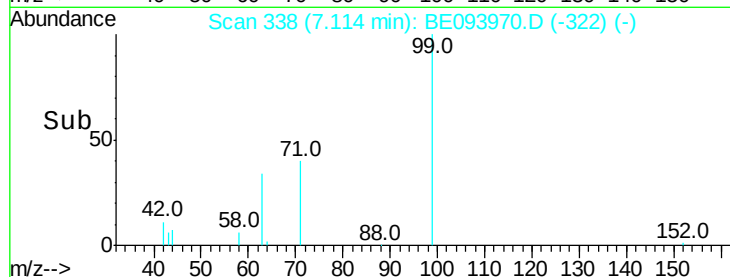
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time--> 6.90 7.00 7.10 7.20 7.30



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.71 min Scan# 577

Delta R.T. 0.00 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

Tgt Ion: 136 Resp: 13125

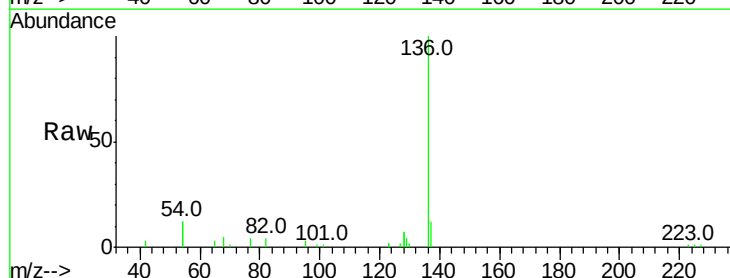
Ion Ratio Lower Upper

136 100

137 11.8 9.2 13.8

54 24.8 21.9 32.9

68 5.5 4.6 7.0

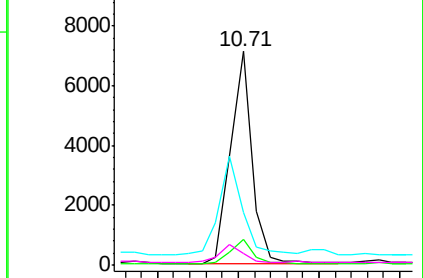


Abundance Ion 136.00 (135.70 to 136.70): E

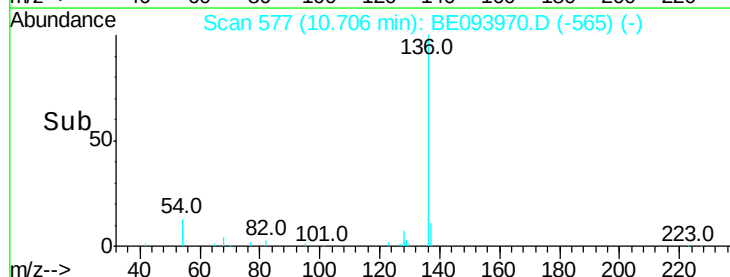
Ion 137.00 (136.70 to 137.70): E

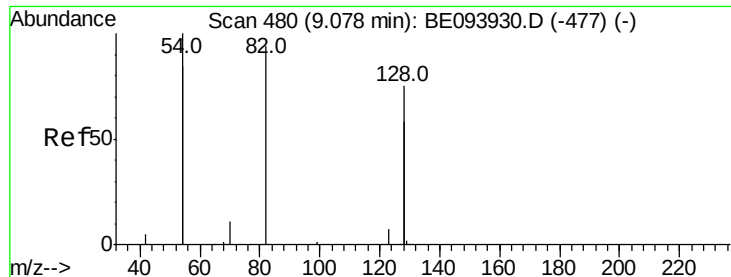
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time--> 10.60 10.70 10.80





#8

Nitrobenzene-d5

Concen: 0.323 ng

RT: 9.06 min Scan# 479

Delta R.T. -0.02 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

Instrument :

BNA\_E

ClientSampled :

C19013061

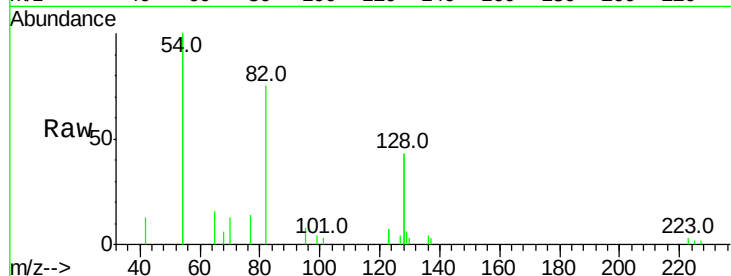
Tot Ion: 82 Resp: 3590

Ion Ratio Lower Upper

82 100

128 113.8 91.4 137.0

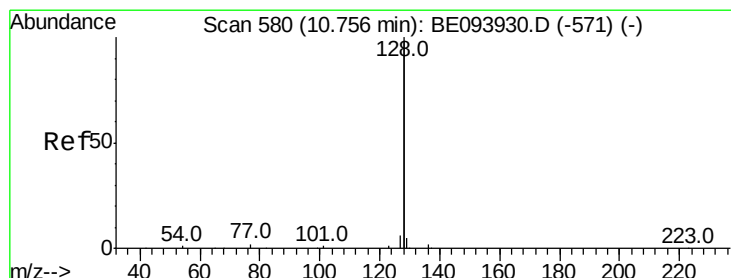
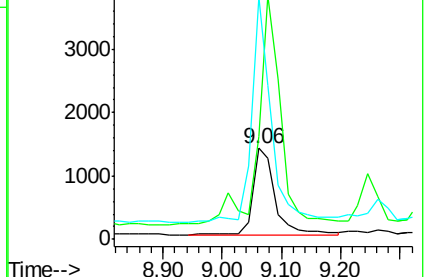
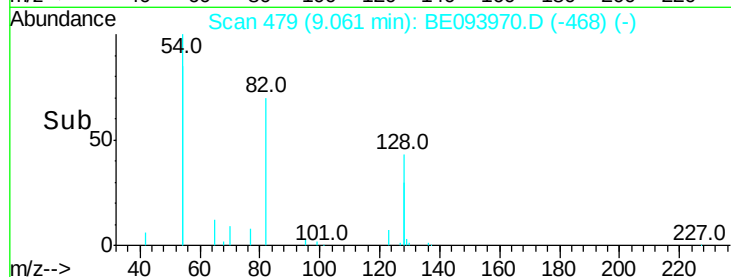
54 267.6 197.8 296.8



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



#9

Naphthalene

Concen: 0.255 ng

RT: 10.76 min Scan# 580

Delta R.T. 0.00 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

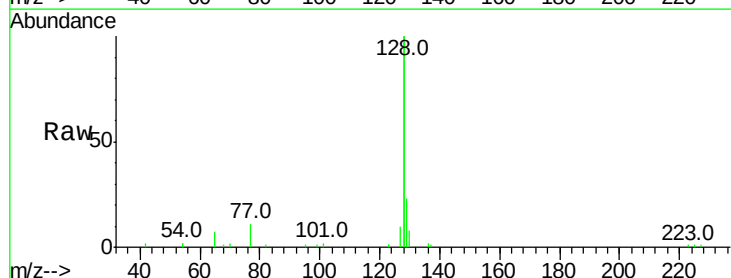
Tgt Ion: 128 Resp: 38392

Ion Ratio Lower Upper

128 100

129 11.4 2.5 3.7#

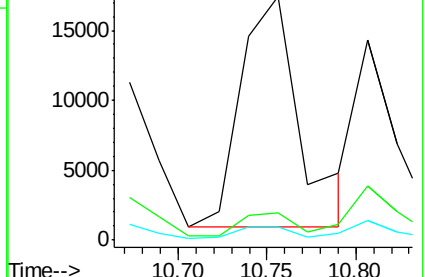
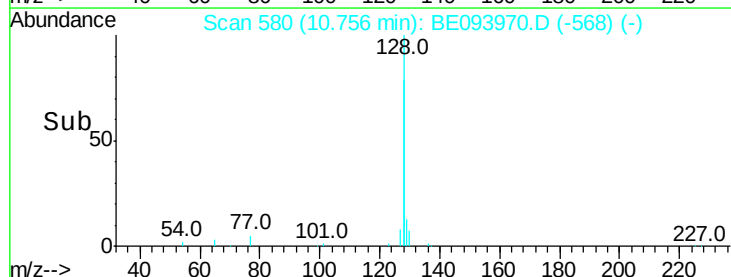
127 5.2 2.6 4.0#

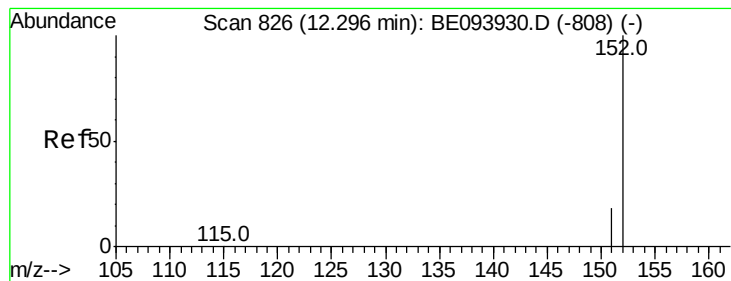


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.297 ng

RT: 12.28 min Scan# 823

Delta R.T. -0.01 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

Instrument :

BNA\_E

ClientSampleId :

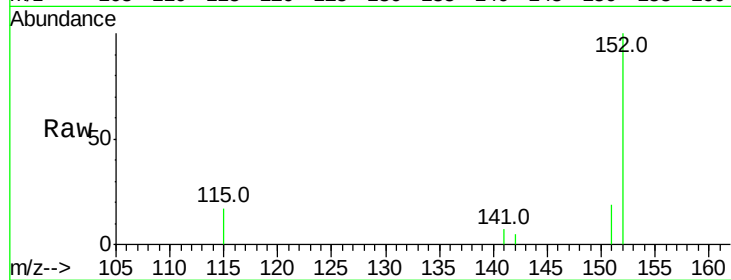
C19013061

Tot Ion:152 Resp: 6245

Ion Ratio Lower Upper

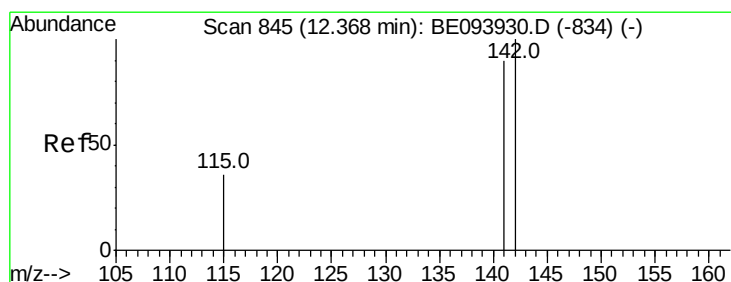
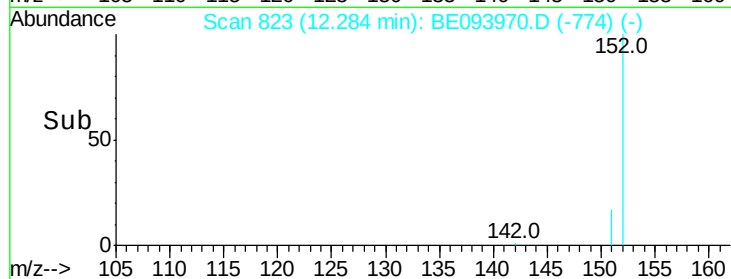
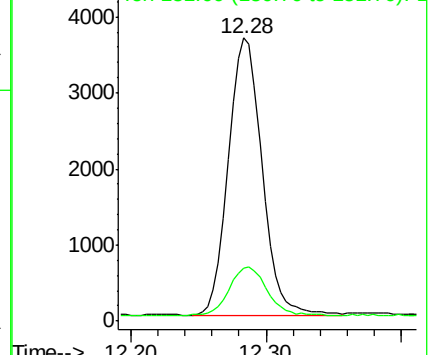
152 100

151 19.5 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.382 ng

RT: 12.36 min Scan# 842

Delta R.T. -0.01 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

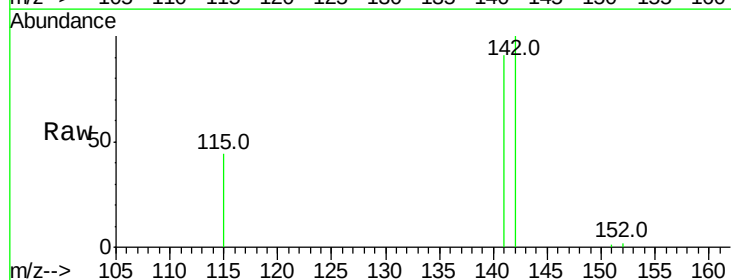
Tgt Ion:142 Resp: 9547

Ion Ratio Lower Upper

142 100

141 91.2 71.4 107.2

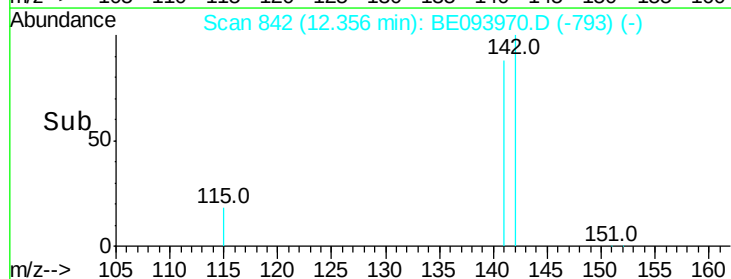
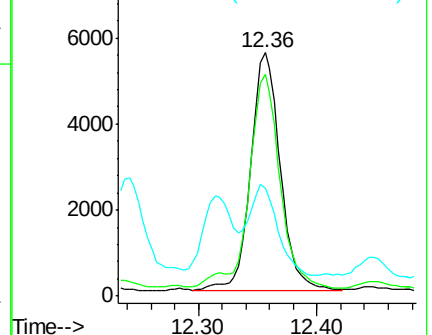
115 44.4 29.4 44.0#

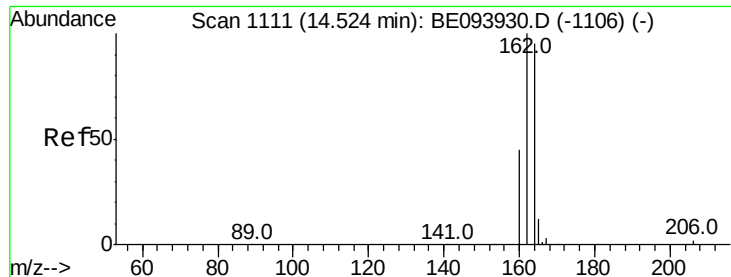


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.52 min Scan# 1112

Delta R.T. 0.00 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

Instrument :

BNA\_E

ClientSampleId :

C19013061

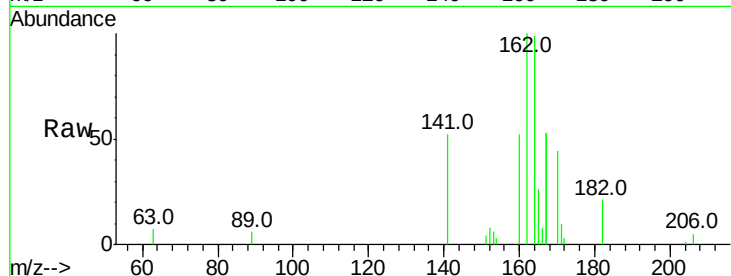
Tot Ion:164 Resp: 8963

Ion Ratio Lower Upper

164 100

162 100.8 80.8 121.2

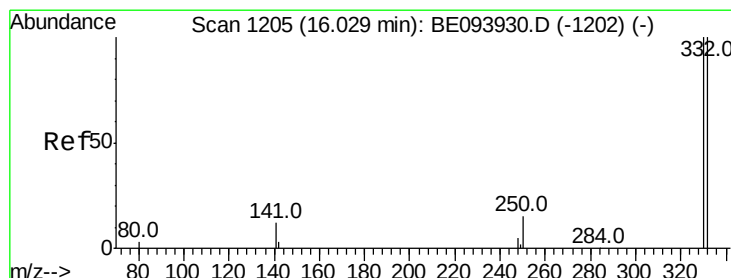
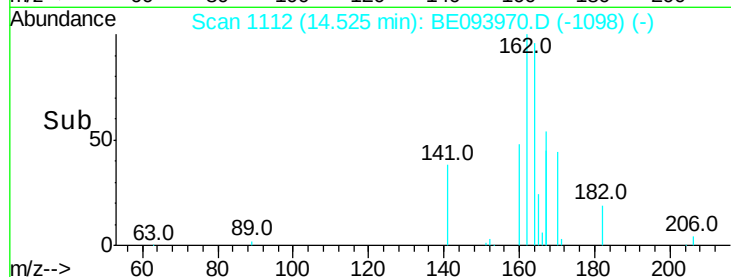
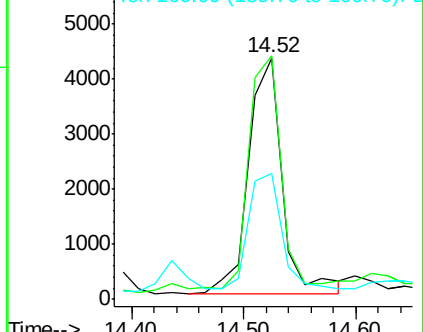
160 52.1 37.0 55.4



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

2,4,6-Tribromophenol

Concen: 0.274 ng

RT: 16.00 min Scan# 1205

Delta R.T. -0.03 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

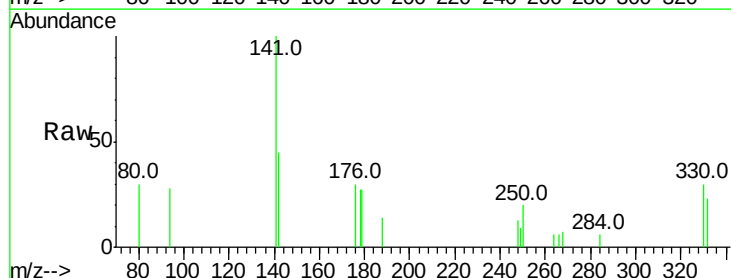
Tgt Ion:330 Resp: 759

Ion Ratio Lower Upper

330 100

332 0.0 76.9 115.3#

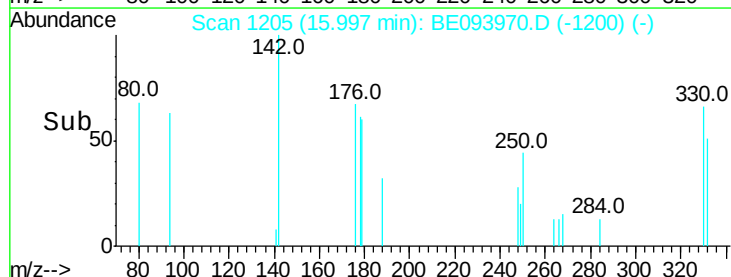
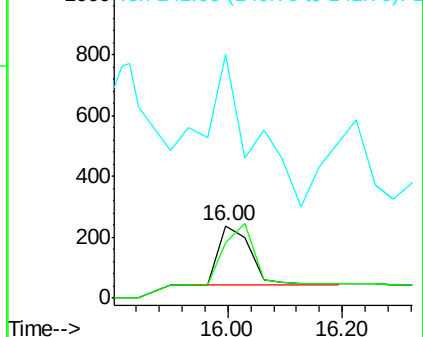
141 405.8 0.0 0.0#

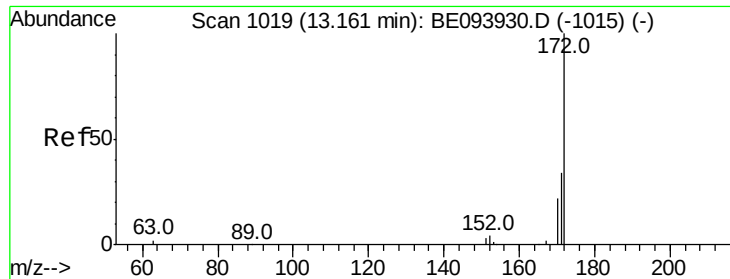


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

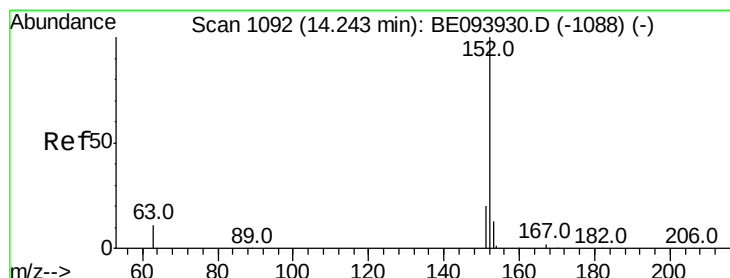
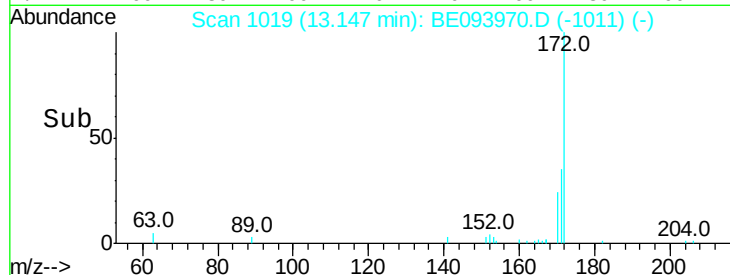
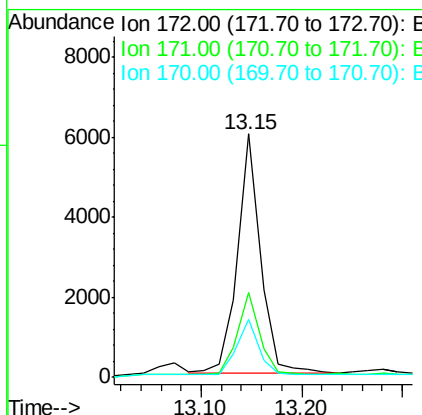
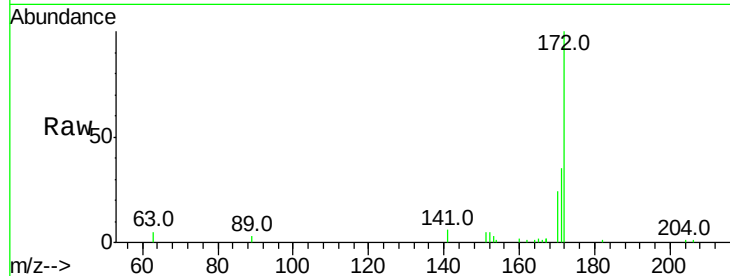




#15  
2-Fluorobiphenyl  
Concen: 0.267 ng  
RT: 13.15 min Scan# 1019  
Delta R.T. -0.01 min  
Lab File: BE093970.D  
Acq: 11 Sep 2017 19:37

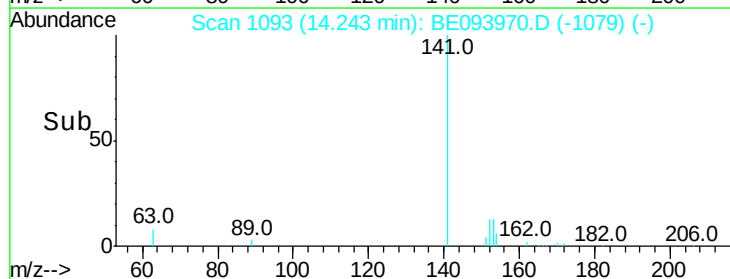
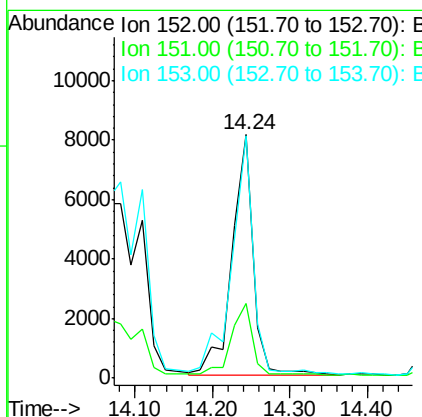
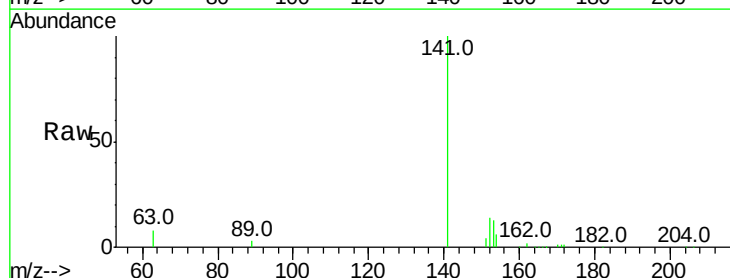
Instrument :  
BNA\_E  
ClientSampleId :  
C19013061

Tot Ion:172 Resp: 9448  
Ion Ratio Lower Upper  
172 100  
171 35.1 26.9 40.3  
170 23.9 17.3 25.9

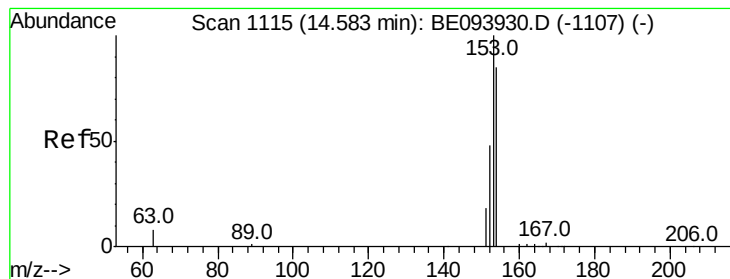


#16  
Acenaphthylene  
Concen: 0.339 ng  
RT: 14.24 min Scan# 1093  
Delta R.T. 0.00 min  
Lab File: BE093970.D  
Acq: 11 Sep 2017 19:37

Tgt Ion:152 Resp: 15188  
Ion Ratio Lower Upper  
152 100  
151 30.9 15.7 23.5#  
153 101.7 10.6 16.0#







#17

Acenaphthene

Concen: 1.024 ng

RT: 14.58 min Scan# 1116

Delta R.T. 0.00 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

Instrument :

BNA\_E

ClientSampleId :

C19013061

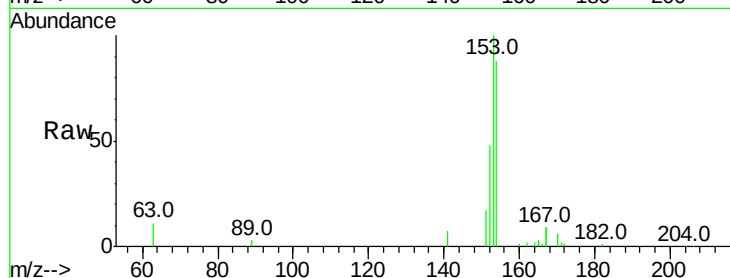
Tot Ion:154 Resp: 30947

Ion Ratio Lower Upper

154 100

153 126.9 91.8 137.6

152 71.4 44.9 67.3#

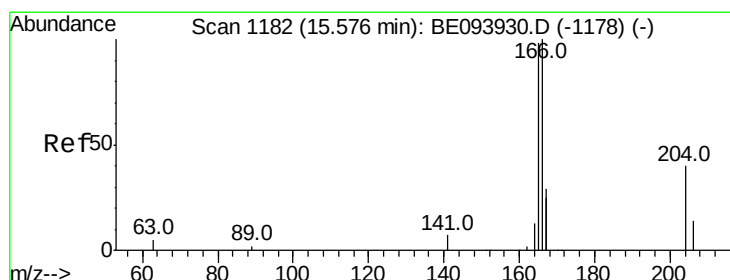
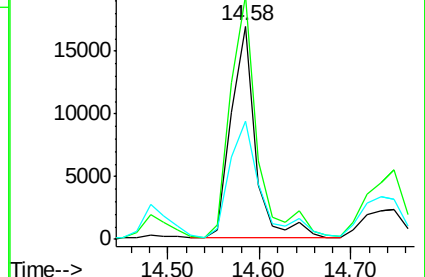
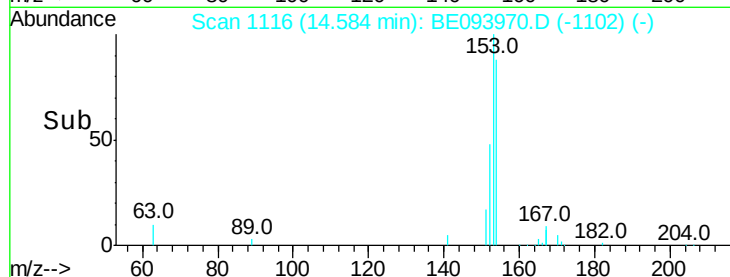


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Time-->



#18

Fluorene

Concen: 1.959 ng

RT: 15.56 min Scan# 1182

Delta R.T. -0.01 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

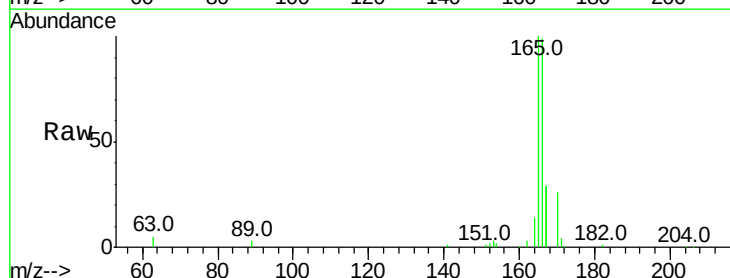
Tgt Ion:166 Resp: 76391

Ion Ratio Lower Upper

166 100

165 100.3 79.4 119.0

167 72.5 43.5 65.3#

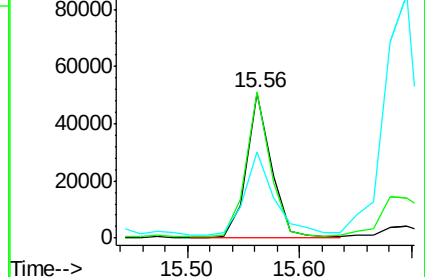
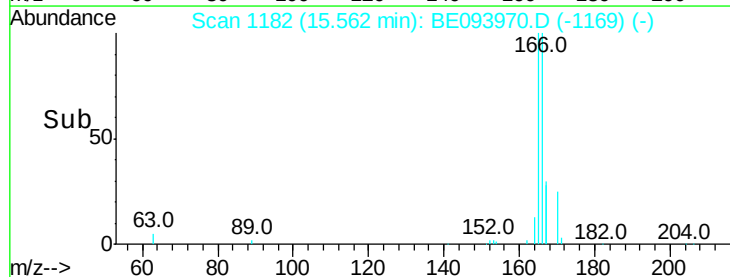


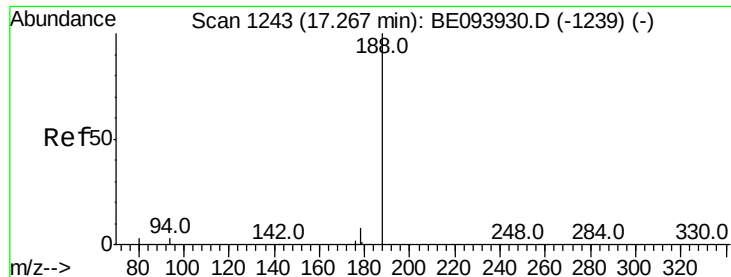
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

Time-->





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.24 min Scan# 1243

Delta R.T. -0.03 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

Instrument :

BNA\_E

ClientSampleId :

C19013061

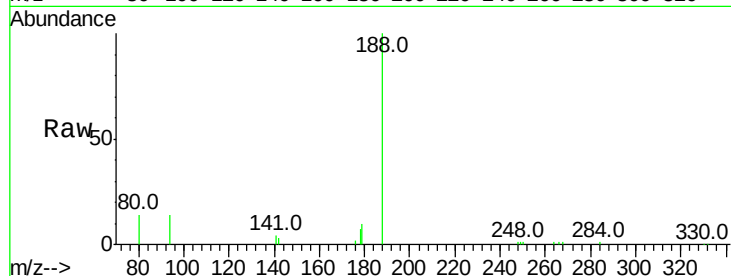
Tot Ion:188 Resp: 20582

Ion Ratio Lower Upper

188 100

94 13.6 16.1 24.1#

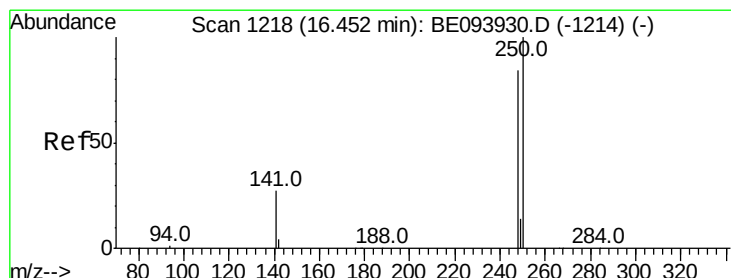
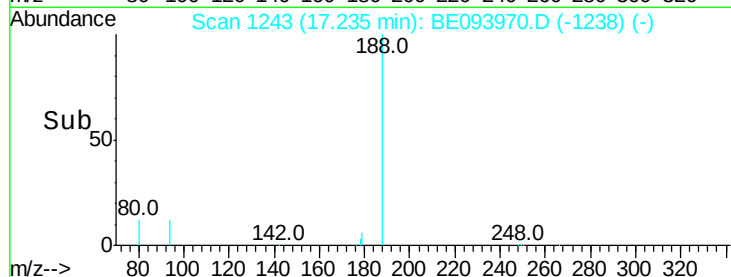
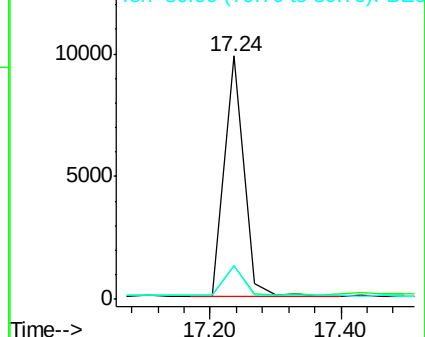
80 13.6 18.2 27.2#



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



#20

4-Bromophenyl-phenylether

Concen: Below Cal

RT: 16.23 min Scan# 1212

Delta R.T. -0.23 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

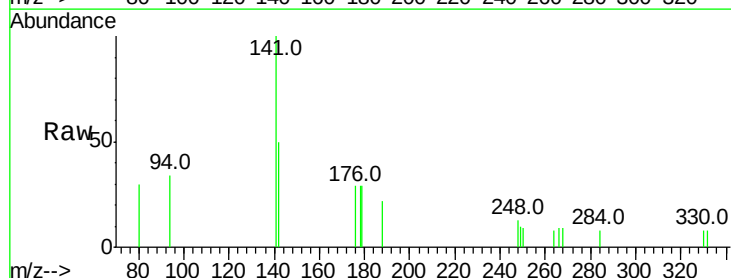
Tgt Ion:248 Resp: 74

Ion Ratio Lower Upper

248 100

250 66.7 111.8 167.8#

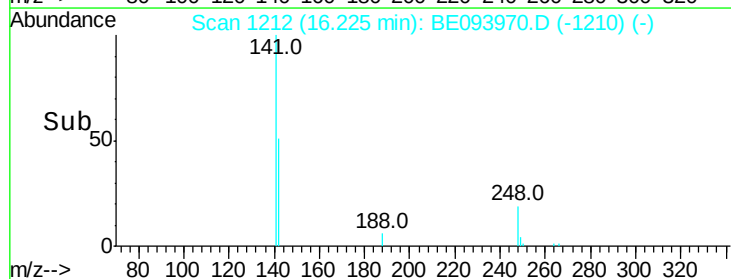
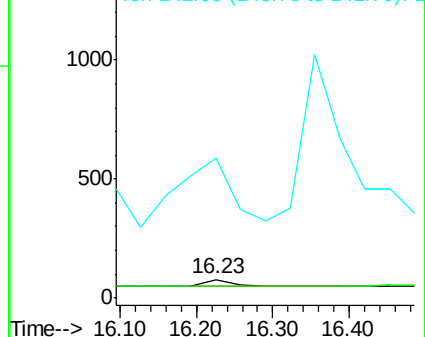
141 751.3 27.1 40.7#

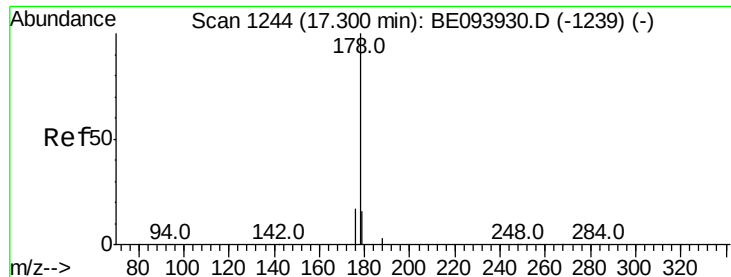


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#23

Phenanthrene

Concen: 1.595 ng

RT: 17.27 min Scan# 1244

Delta R.T. -0.03 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

Instrument :

BNA\_E

ClientSampleId :

C19013061

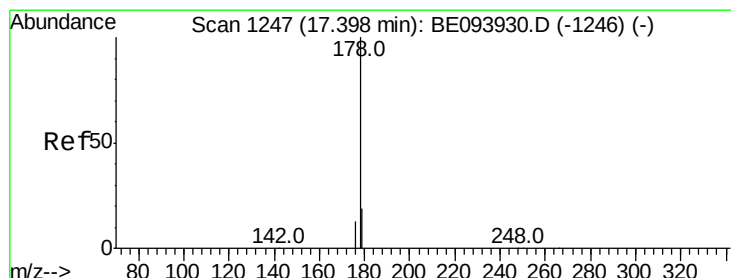
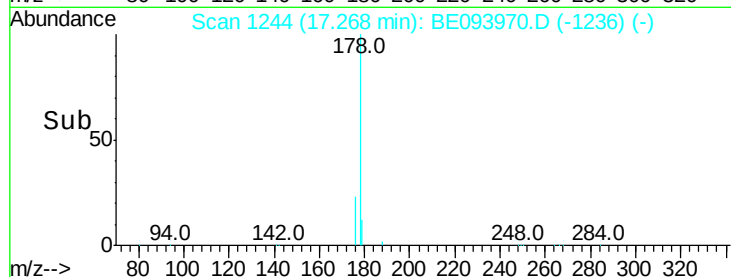
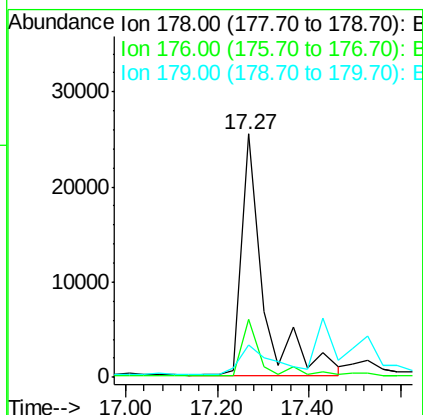
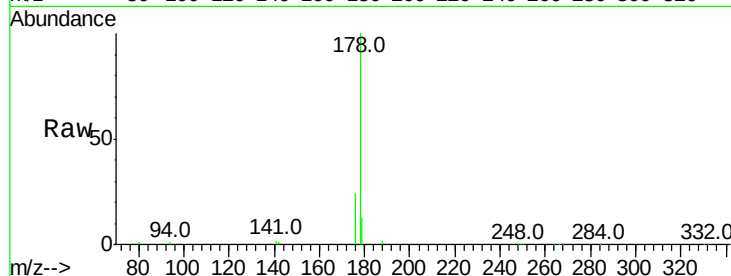
Tot Ion:178 Resp: 83596

Ion Ratio Lower Upper

178 100

176 16.6 0.0 0.0#

179 18.0 12.6 18.8



#24

Anthracene

Concen: 1.370 ng

RT: 17.27 min Scan# 1244

Delta R.T. -0.13 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

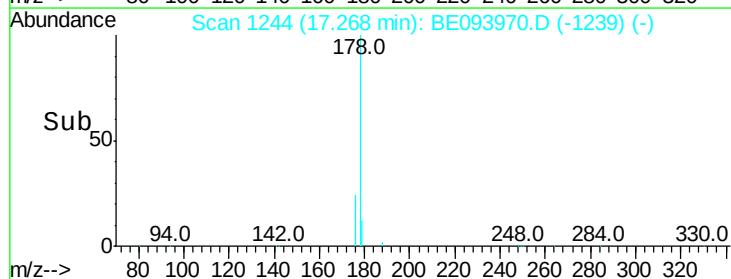
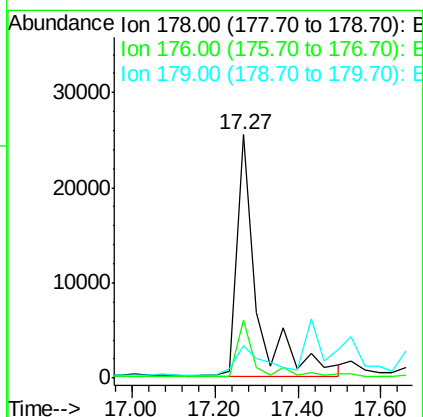
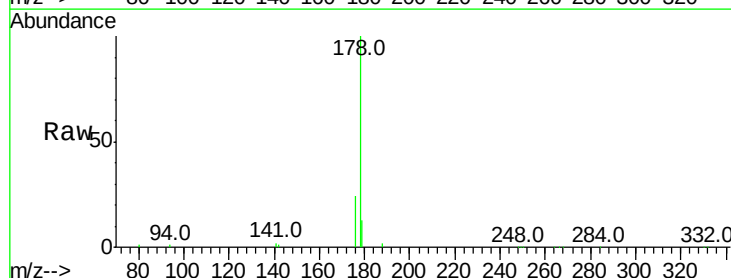
Tgt Ion:178 Resp: 85841

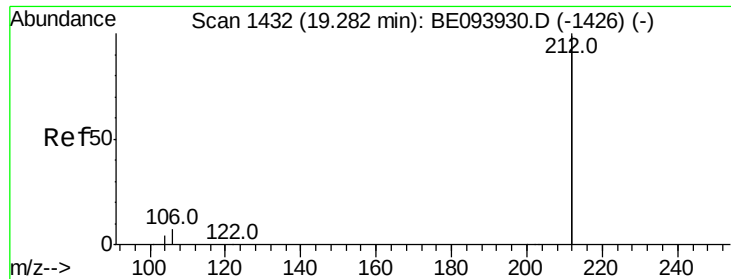
Ion Ratio Lower Upper

178 100

176 16.2 16.0 24.0

179 17.6 0.0 0.0#

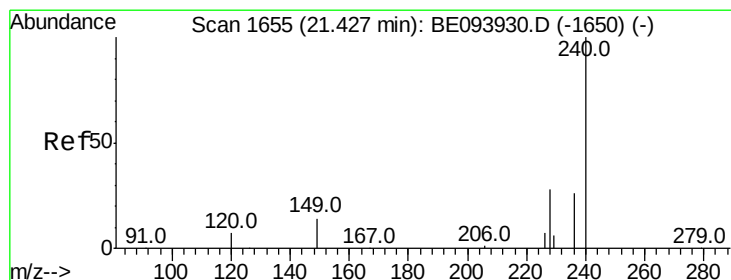
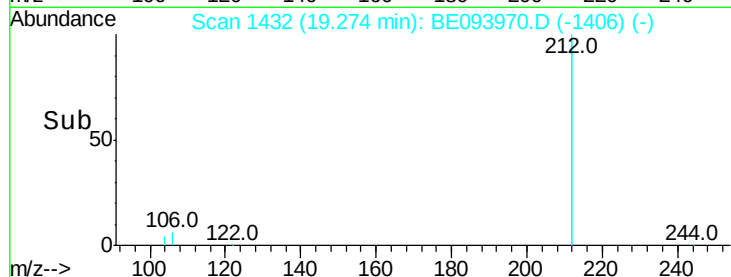
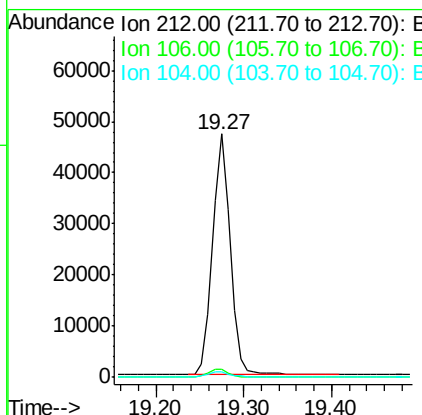
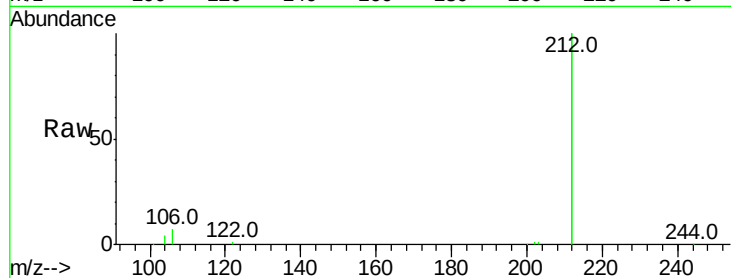




#25  
 Fluoranthene-d10  
 Concen: 0.213 ng  
 RT: 19.27 min Scan# 1432  
 Delta R.T. -0.01 min  
 Lab File: BE093970.D  
 Acq: 11 Sep 2017 19:37

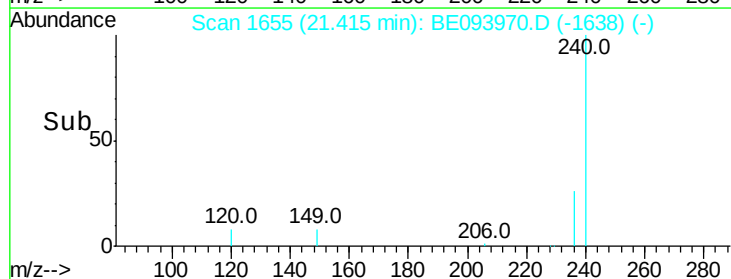
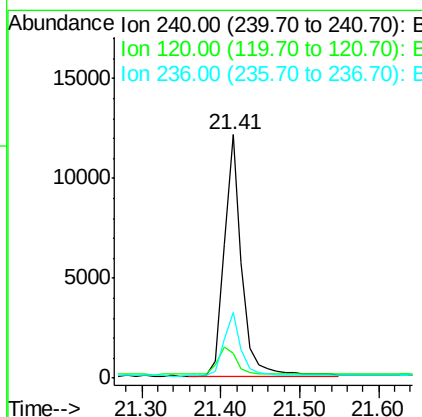
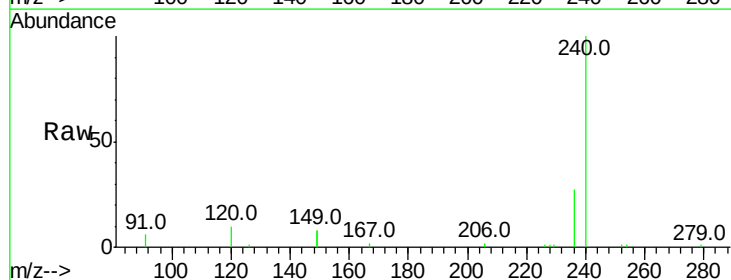
Instrument :  
 BNA\_E  
 ClientSampleId :  
 C19013061

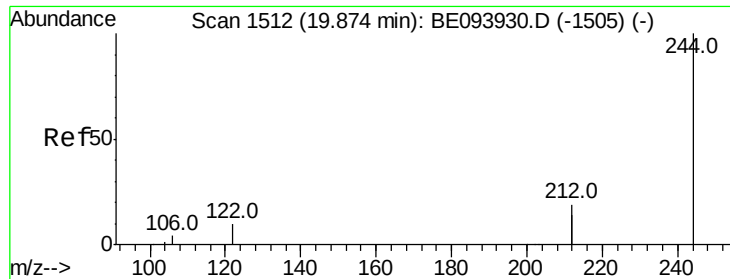
Tot Ion:212 Resp: 65227  
 Ion Ratio Lower Upper  
 212 100  
 106 3.4 2.7 4.1  
 104 2.5 1.6 2.4#



#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.41 min Scan# 1655  
 Delta R.T. -0.01 min  
 Lab File: BE093970.D  
 Acq: 11 Sep 2017 19:37

Tgt Ion:240 Resp: 19026  
 Ion Ratio Lower Upper  
 240 100  
 120 10.0 8.7 13.1  
 236 27.1 21.3 31.9





#29

Terphenyl-d14

Concen: 0.786 ng

RT: 19.86 min Scan# 1511

Delta R.T. -0.02 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

Instrument :

BNA\_E

ClientSampleId :

C19013061

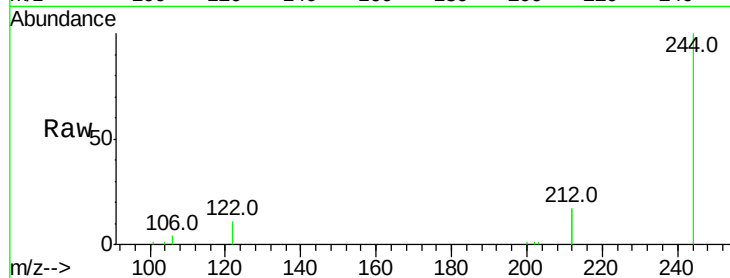
Tot Ion:244 Resp: 27522

Ion Ratio Lower Upper

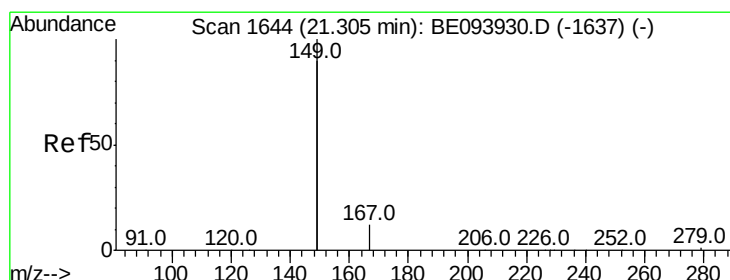
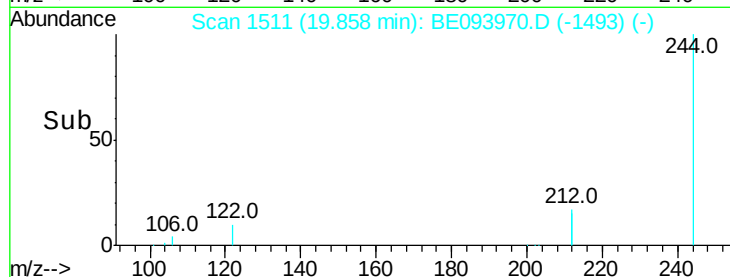
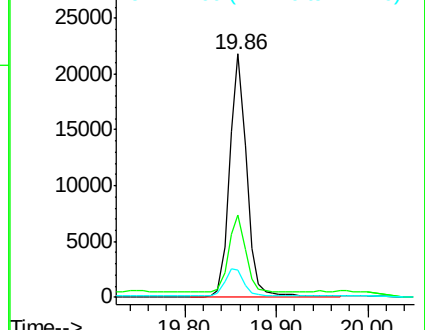
244 100

212 33.8 28.3 42.5

122 11.0 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: 0.165 ng

RT: 21.30 min Scan# 1645

Delta R.T. -0.00 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

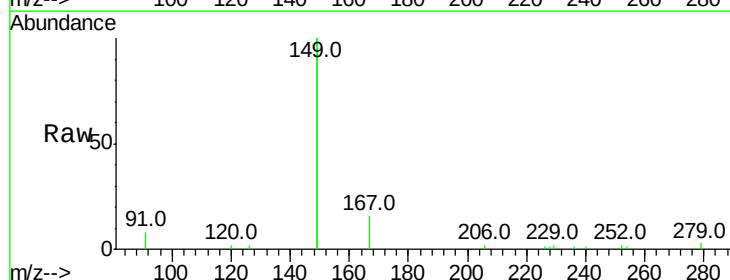
Tgt Ion:149 Resp: 23481

Ion Ratio Lower Upper

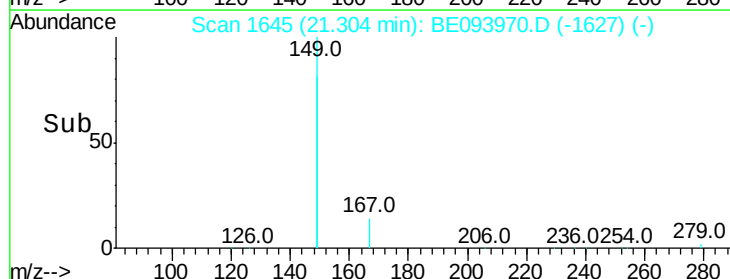
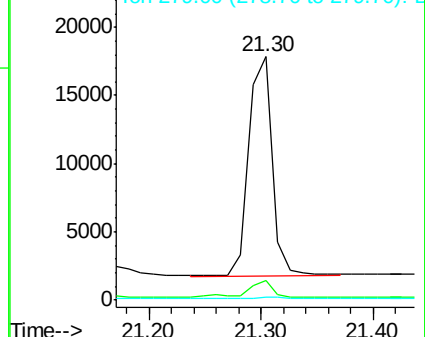
149 100

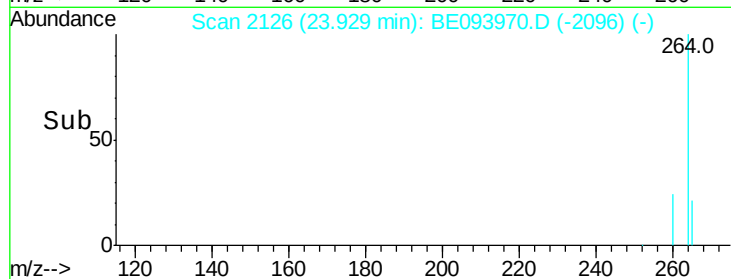
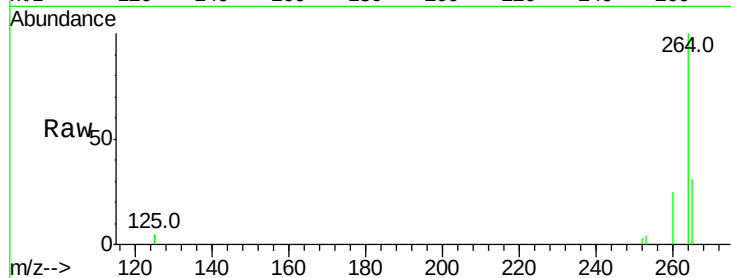
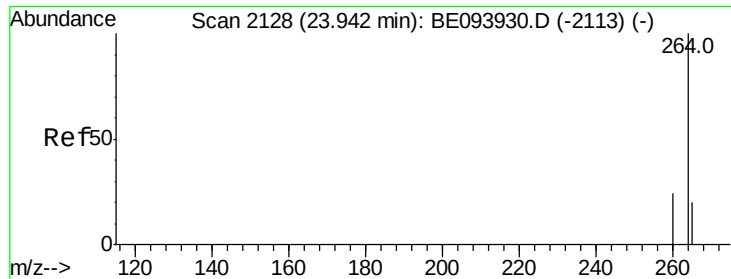
167 8.8 5.4 8.0#

279 1.1 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: 23.93 min Scan# 2126

Delta R.T. -0.01 min

Lab File: BE093970.D

Acq: 11 Sep 2017 19:37

Instrument :

BNA\_E

ClientSampleId :

C19013061

Tot Ion:264 Resp: 15432

Ion Ratio Lower Upper

264 100

260 24.8 20.0 30.0

265 30.7 24.0 36.0

