

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE071317\  
 Data File : BE093452.D  
 Acq On : 13 Jul 2017 10:17  
 Operator : SJ/JU  
 Sample : PB100553BS  
 Misc : LOO 0.2 PPM  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Jul 13 15:20:09 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE070217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 03 06:40:23 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.95  | 152  | 5284     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.72 | 136  | 22210    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.54 | 164  | 10316    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.27 | 188  | 18164    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.43 | 240  | 32804    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.93 | 264  | 31897    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.53  | 112  | 5019     | 0.31 | ng    | 0.00     |
| 5) Phenol-d6                | 7.10  | 99   | 6582     | 0.28 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 9.08  | 82   | 5351     | 0.38 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.31 | 152  | 10127    | 0.29 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 16.03 | 330  | 579      | 0.18 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.18 | 172  | 13999    | 0.35 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.28 | 212  | 85470    | 0.39 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.87 | 244  | 15704    | 0.27 | ng    | 0.00     |

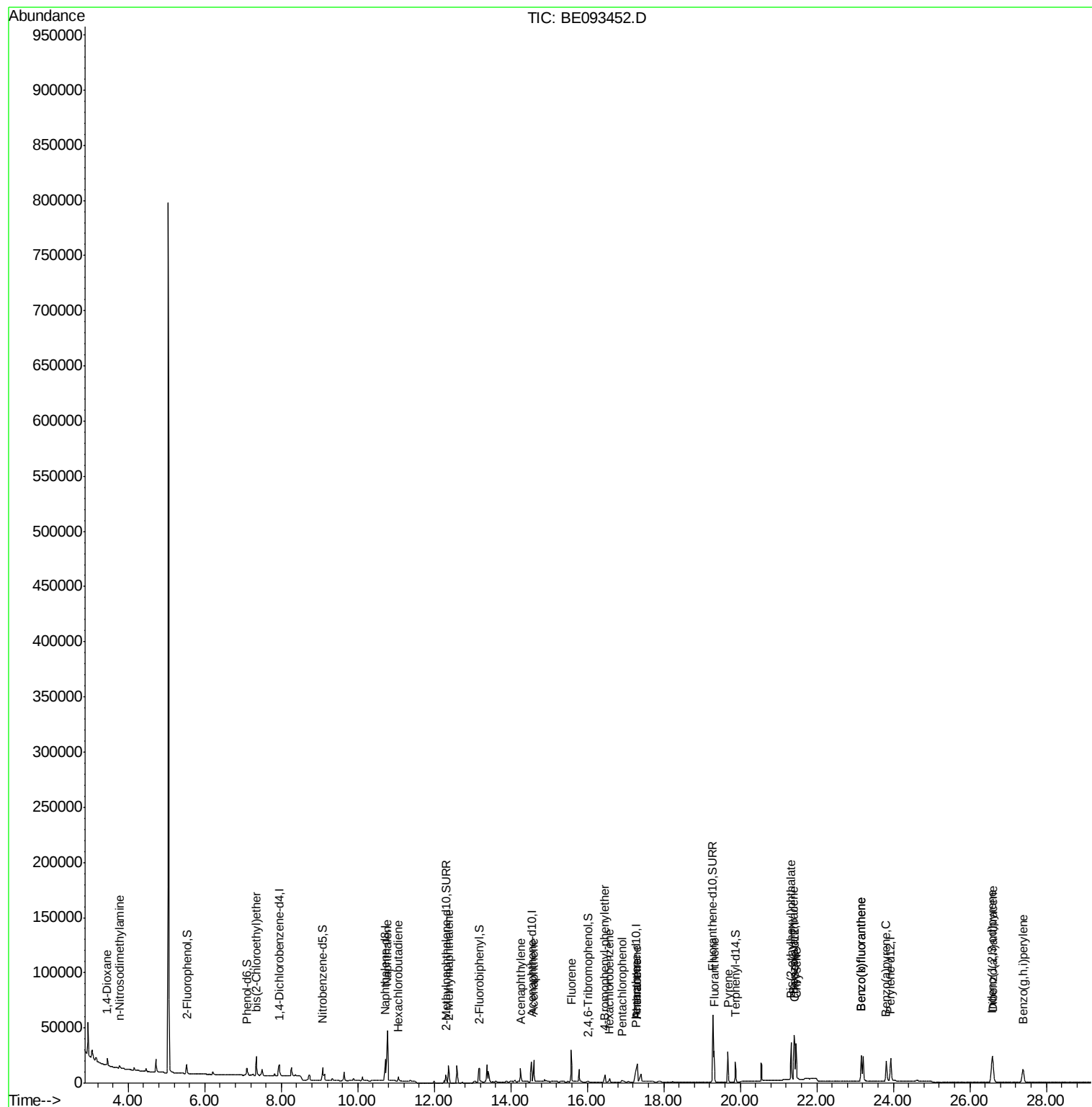
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.45  | 88   | 3818     | 0.341 | ng    | # 34   |
| 3) n-Nitrosodimethylamine      | 3.77  | 42   | 2064     | 0.377 | ng    | # 79   |
| 6) bis(2-Chloroethyl)ether     | 7.35  | 93   | 5583     | 0.316 | ng    | # 99   |
| 9) Naphthalene                 | 10.77 | 128  | 71623    | 0.308 | ng    | # 73   |
| 10) Hexachlorobutadiene        | 11.06 | 225  | 2837     | 0.321 | ng    | 99     |
| 12) 2-Methylnaphthalene        | 12.38 | 142  | 11585    | 0.296 | ng    | 96     |
| 16) Acenaphthylene             | 14.26 | 152  | 13801    | 0.321 | ng    | # 87   |
| 17) Acenaphthene               | 14.60 | 154  | 9772     | 0.310 | ng    | 99     |
| 18) Fluorene                   | 15.58 | 166  | 12173    | 0.282 | ng    | # 88   |
| 20) 4-Bromophenyl-phenylether  | 16.45 | 248  | 5138     | 0.516 | ng    | # 3    |
| 21) Hexachlorobenzene          | 16.58 | 284  | 4437     | 0.413 | ng    | # 100  |
| 22) Pentachlorophenol          | 16.91 | 266  | 1412     | 0.957 | ng    | # 80   |
| 23) Phenanthrene               | 17.30 | 178  | 24276    | 0.368 | ng    | 97     |
| 24) Anthracene                 | 17.30 | 178  | 25304    | 0.625 | ng    | 96     |
| 26) Fluoranthene               | 19.31 | 202  | 24676    | 0.398 | ng    | 99     |
| 28) Pyrene                     | 19.67 | 202  | 25664    | 0.278 | ng    | # 98   |
| 30) Benzo(a)anthracene         | 21.40 | 228  | 28825    | 0.326 | ng    | 94     |
| 31) Chrysene                   | 21.46 | 228  | 30557    | 0.330 | ng    | 94     |
| 32) Bis(2-ethylhexyl)phthalate | 21.33 | 149  | 33489    | 0.263 | ng    | # 67   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.57 | 276  | 34377    | 0.423 | ng    | 94     |
| 35) Benzo(b)fluoranthene       | 23.16 | 252  | 32299    | 0.314 | ng    | 96     |
| 36) Benzo(k)fluoranthene       | 23.16 | 252  | 32299    | 0.317 | ng    | 97     |
| 37) Benzo(a)pyrene             | 23.82 | 252  | 29834    | 0.331 | ng    | 96     |
| 38) Dibenzo(a,h)anthracene     | 26.60 | 278  | 29461    | 0.336 | ng    | # 90   |
| 39) Benzo(g,h,i)perylene       | 27.39 | 276  | 29933    | 0.338 | ng    | 93     |

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

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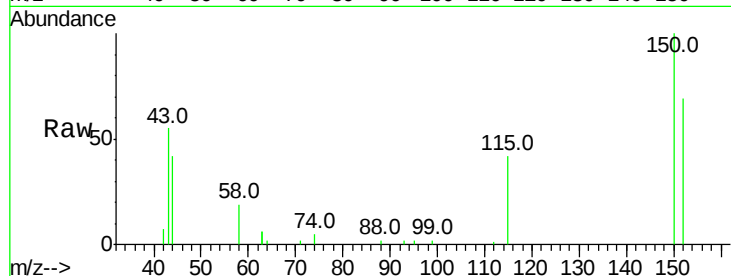


#1

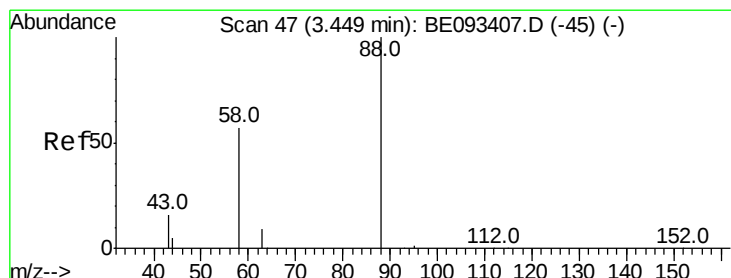
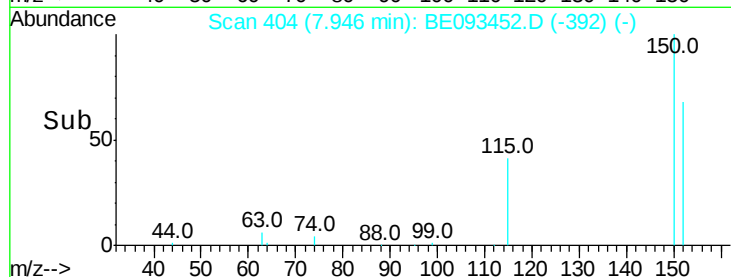
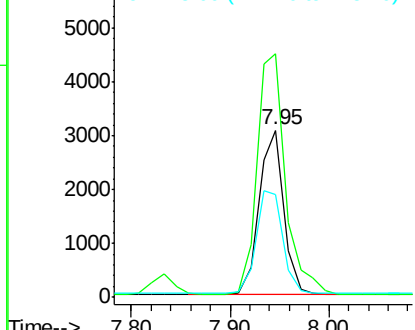
1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.95 min Scan# 404  
 Delta R.T. 0.00 min  
 Lab File: BE093452.D  
 Acq: 13 Jul 2017 10:17

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:152 Resp: 5284  
 Ion Ratio Lower Upper  
 152 100  
 150 145.7 125.1 187.7  
 115 61.3 55.7 83.5



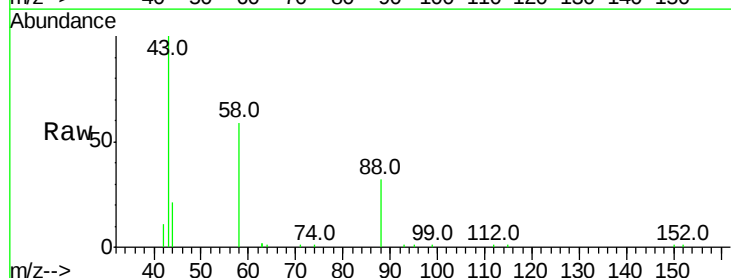
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



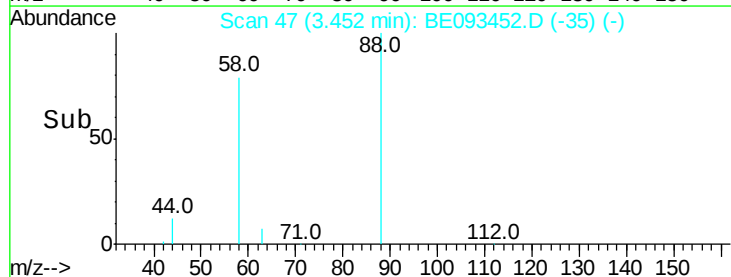
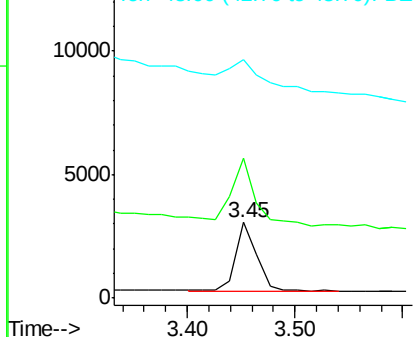
#2

1,4-Dioxane  
 Concen: 0.341 ng  
 RT: 3.45 min Scan# 47  
 Delta R.T. 0.00 min  
 Lab File: BE093452.D  
 Acq: 13 Jul 2017 10:17

Tgt Ion: 88 Resp: 3818  
 Ion Ratio Lower Upper  
 88 100  
 58 116.1 62.2 93.4#  
 43 95.5 23.2 34.8#



Abundance Ion 88.00 (87.70 to 88.70): BE0  
 Ion 58.00 (57.70 to 58.70): BE0  
 Ion 43.00 (42.70 to 43.70): BE0



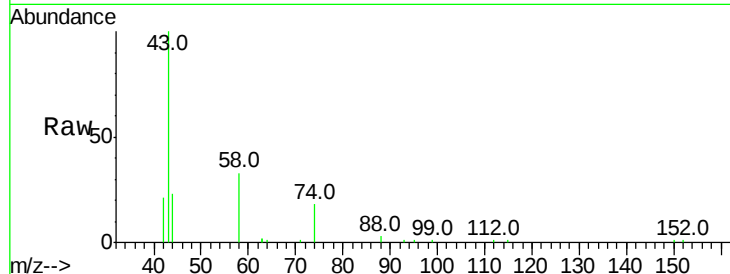


#3

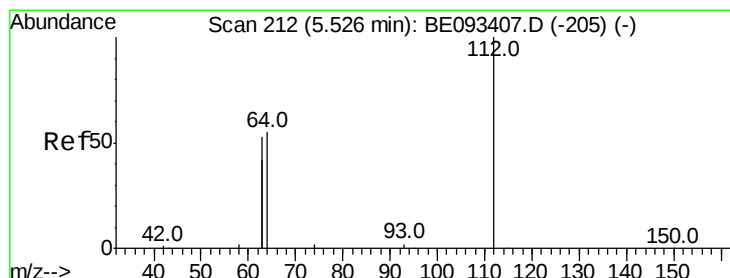
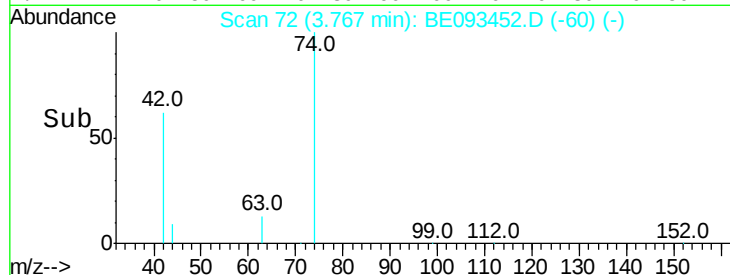
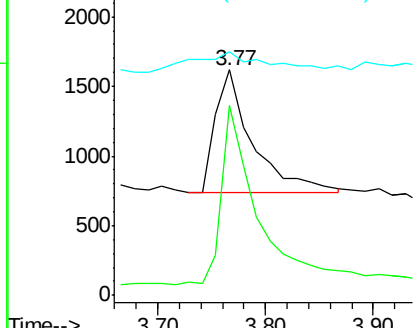
n-Nitrosodimethylamine  
 Concen: 0.377 ng  
 RT: 3.77 min Scan# 72  
 Delta R.T. 0.00 min  
 Lab File: BE093452.D  
 Acq: 13 Jul 2017 10:17

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion: 42 Resp: 2064  
 Ion Ratio Lower Upper  
 42 100  
 74 143.8 99.1 148.7  
 44 34.7 7.4 11.2#



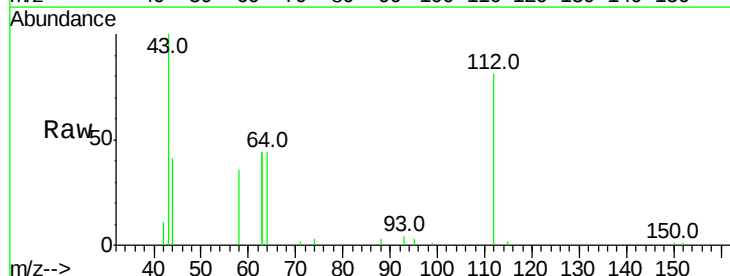
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



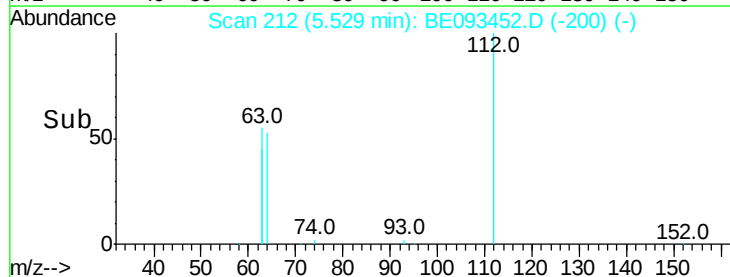
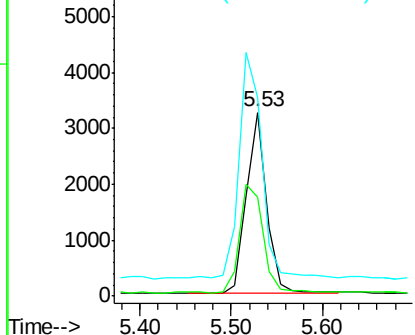
#4

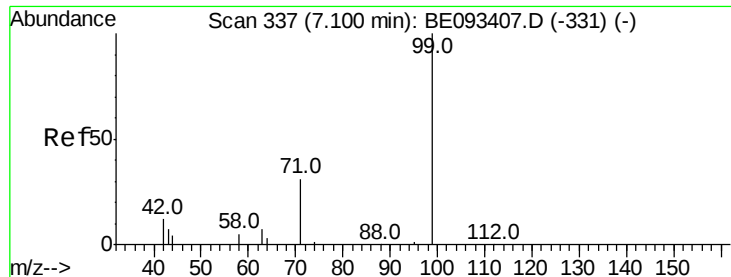
2-Fluorophenol  
 Concen: 0.315 ng  
 RT: 5.53 min Scan# 212  
 Delta R.T. 0.00 min  
 Lab File: BE093452.D  
 Acq: 13 Jul 2017 10:17

Tgt Ion: 112 Resp: 5019  
 Ion Ratio Lower Upper  
 112 100  
 64 69.4 56.4 84.6  
 63 143.5 29.3 43.9#



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: 0.280 ng

RT: 7.10 min Scan# 337

Delta R.T. 0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

Instrument :

BNA\_E

ClientSampled :

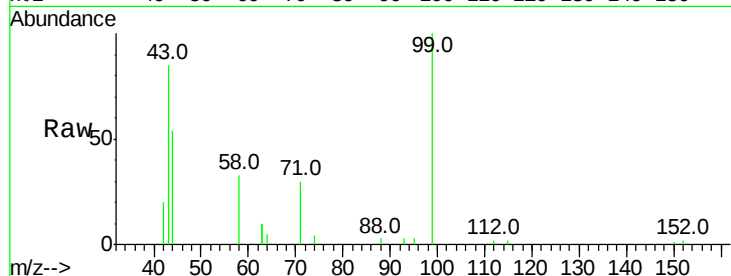
Tot Ion: 99 Resp: 6582

Ion Ratio Lower Upper

99 100

42 22.8 0.0 0.0#

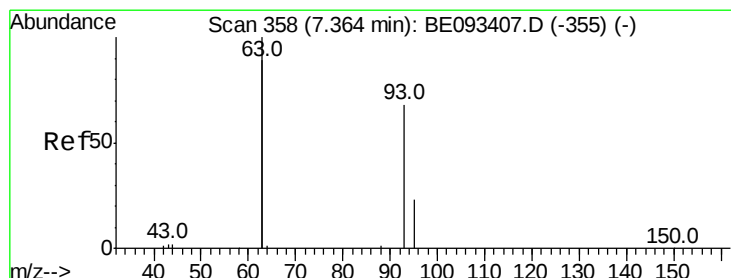
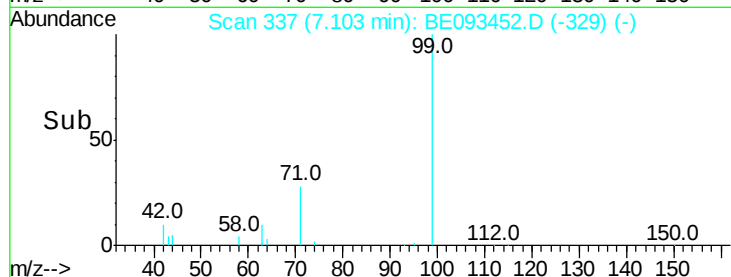
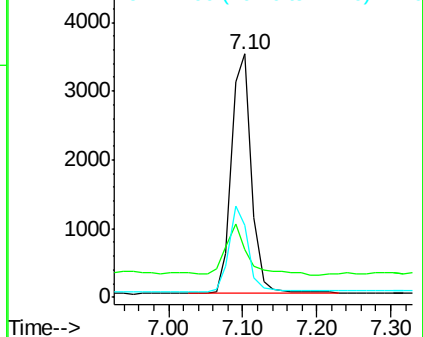
71 34.9 0.0 0.0#



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: 0.316 ng

RT: 7.35 min Scan# 357

Delta R.T. -0.01 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

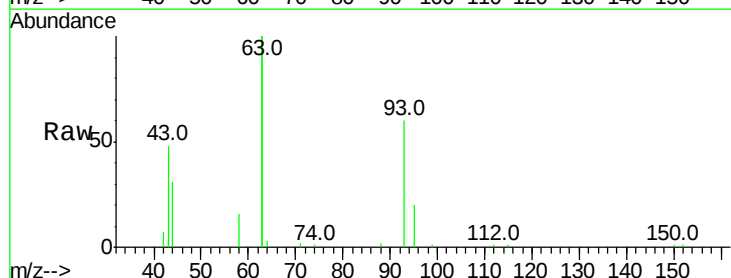
Tgt Ion: 93 Resp: 5583

Ion Ratio Lower Upper

93 100

63 350.5 0.0 0.0#

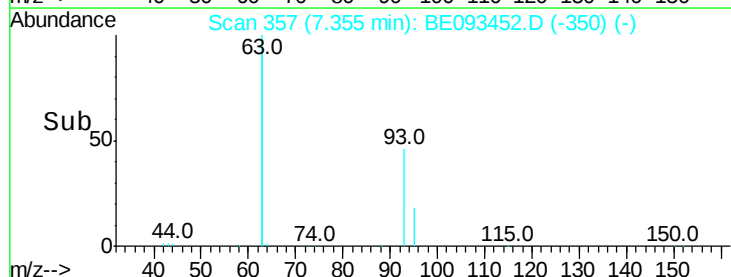
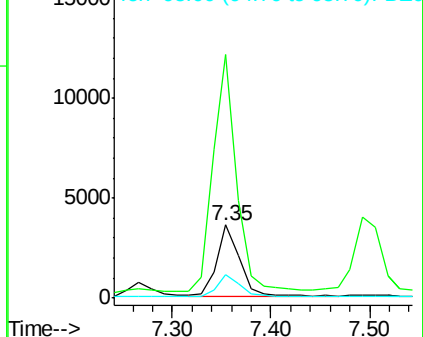
95 32.5 25.4 38.0

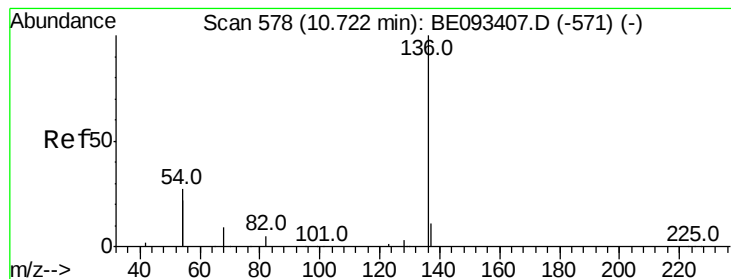


Abundance Ion 93.00 (92.70 to 93.70): BE0

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. 0.00 min

Lab File: BE093452.D

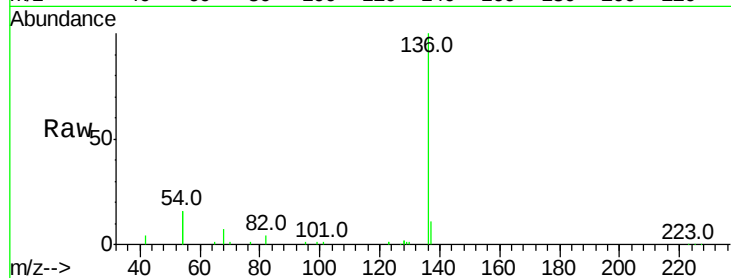
Acq: 13 Jul 2017 10:17

Instrument :

BNA\_E

ClientSampleId :

|             |       |       |
|-------------|-------|-------|
| Tot Ion:136 | Resp: | 22210 |
| Ion Ratio   | Lower | Upper |
| 136 100     |       |       |
| 137 11.4    | 9.8   | 14.8  |
| 54 31.6     | 10.3  | 15.5# |
| 68 6.8      | 9.0   | 13.4# |

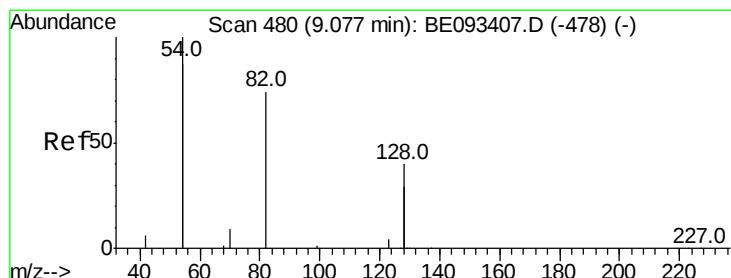
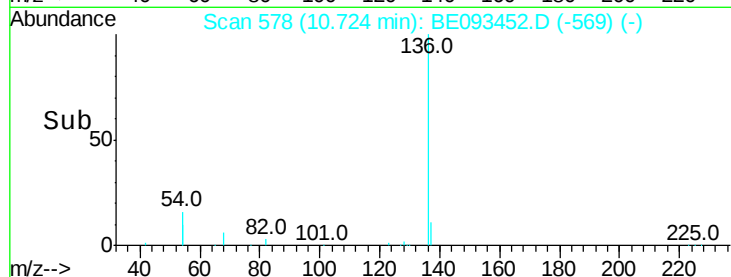
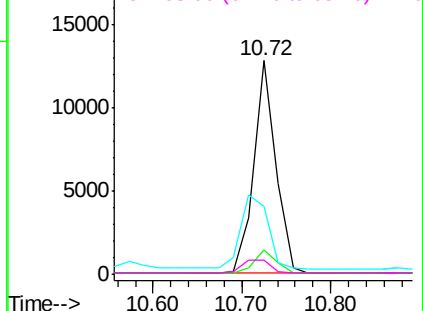


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.377 ng

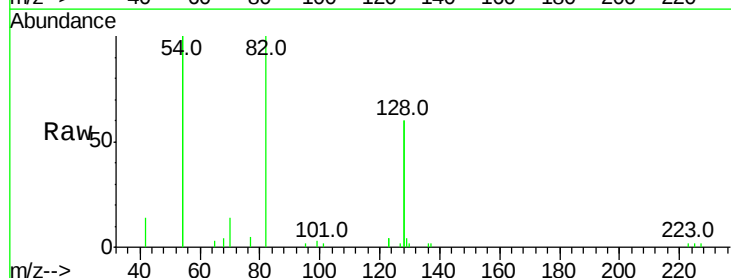
RT: 9.08 min Scan# 480

Delta R.T. 0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

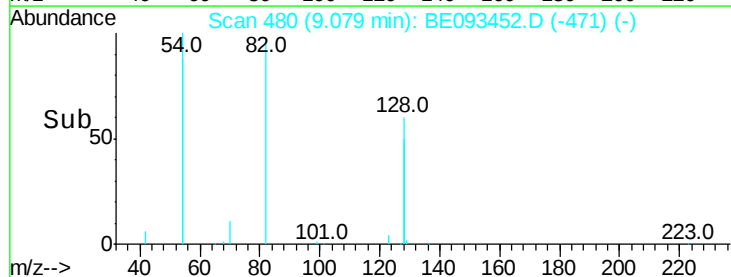
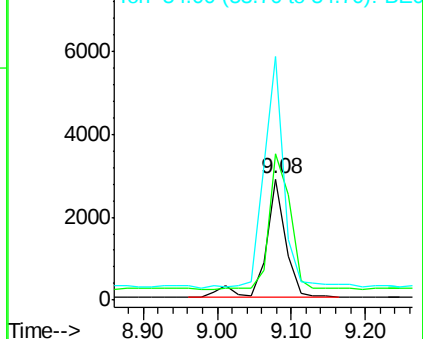
|             |       |       |
|-------------|-------|-------|
| Tgt Ion: 82 | Resp: | 5351  |
| Ion Ratio   | Lower | Upper |
| 82 100      |       |       |
| 128 121.0   | 17.0  | 25.4# |
| 54 200.8    | 53.8  | 80.6# |

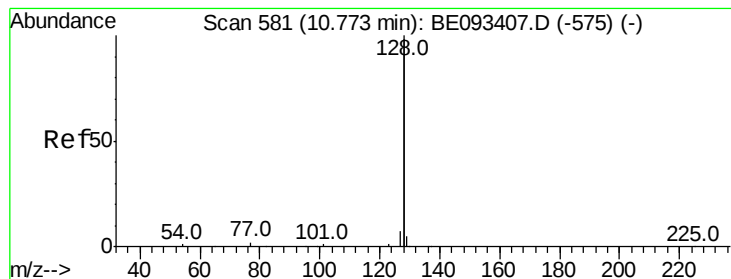


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.308 ng

RT: 10.77 min Scan# 581

Delta R.T. 0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

Instrument :

BNA\_E

ClientSampled :

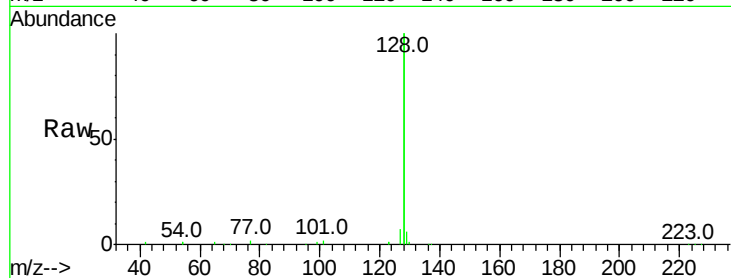
Tot Ion:128 Resp: 71623

Ion Ratio Lower Upper

128 100

129 2.9 11.4 17.0#

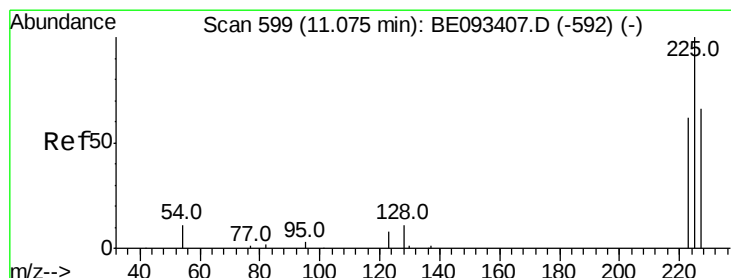
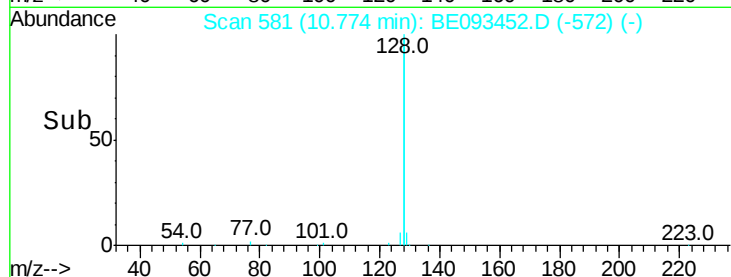
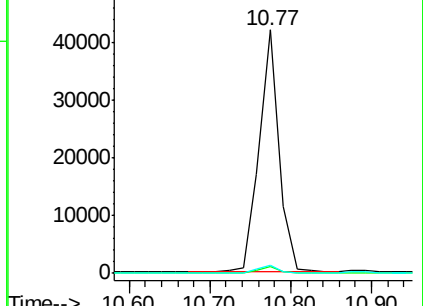
127 3.3 11.2 16.8#



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



#10

Hexachlorobutadiene

Concen: 0.321 ng

RT: 11.06 min Scan# 598

Delta R.T. -0.02 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

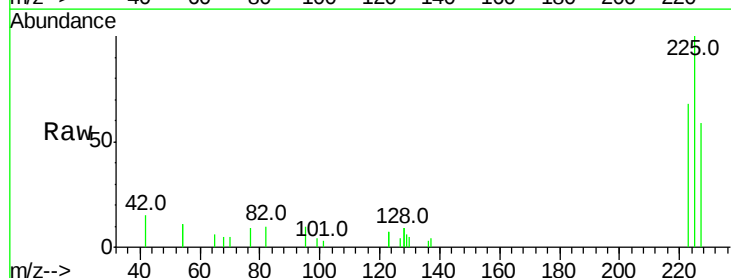
Tgt Ion:225 Resp: 2837

Ion Ratio Lower Upper

225 100

223 62.4 49.7 74.5

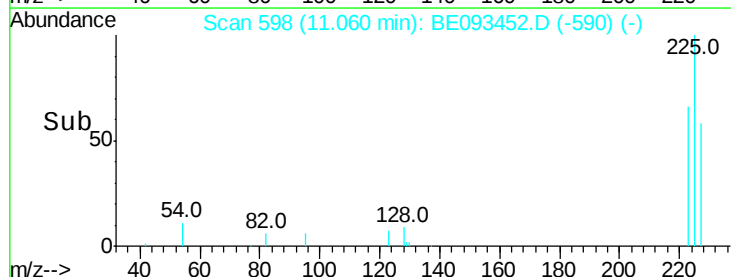
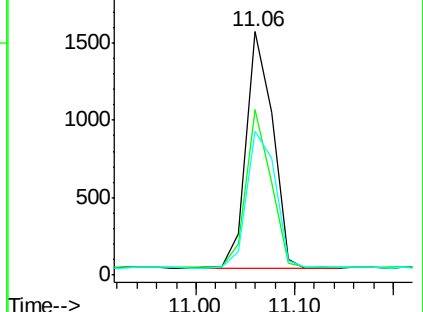
227 62.3 50.3 75.5

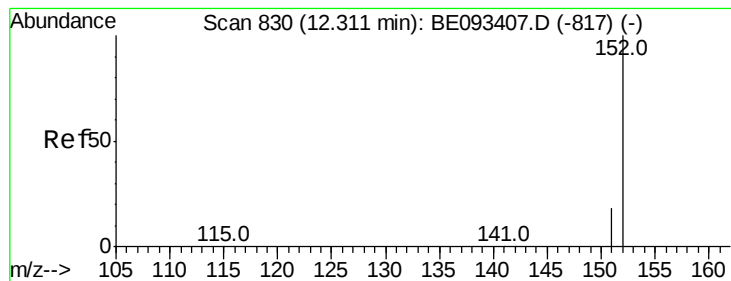


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.286 ng

RT: 12.31 min Scan# 829

Delta R.T. -0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

Instrument :

BNA\_E

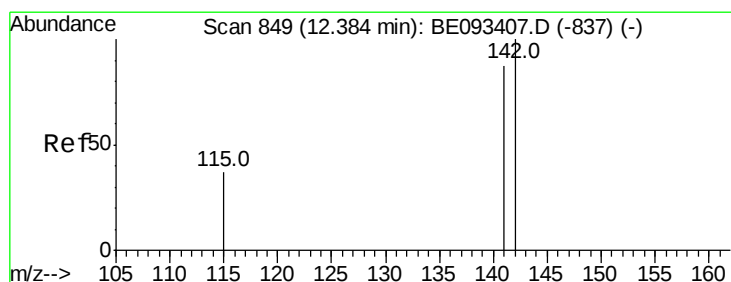
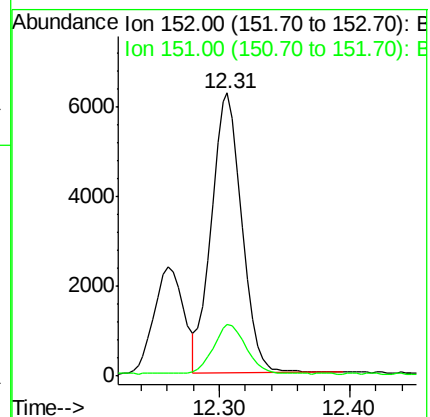
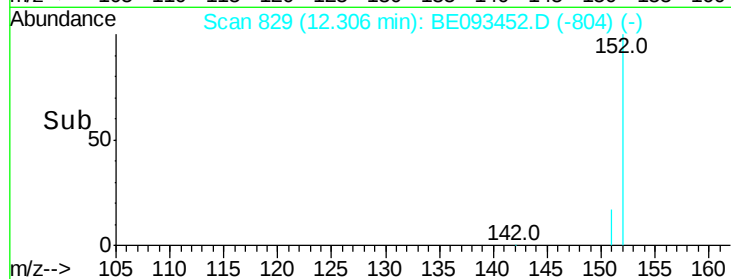
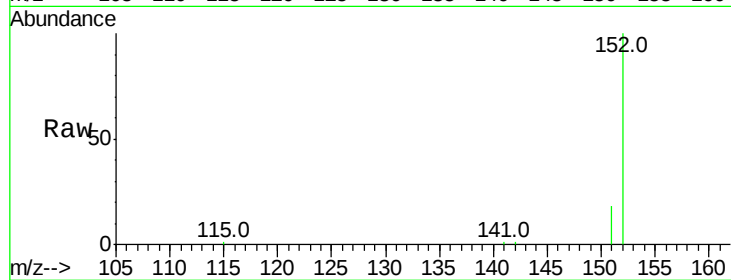
ClientSampleId :

Tot Ion:152 Resp: 10127

Ion Ratio Lower Upper

152 100

151 18.8 15.1 22.7



#12

2-Methylnaphthalene

Concen: 0.296 ng

RT: 12.38 min Scan# 848

Delta R.T. -0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

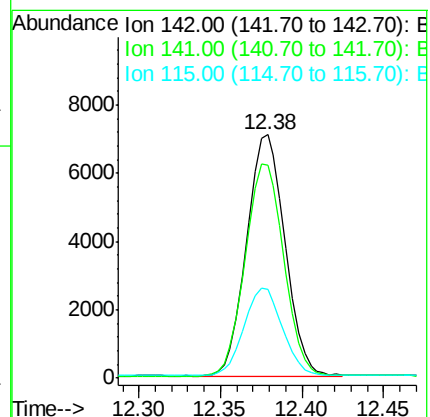
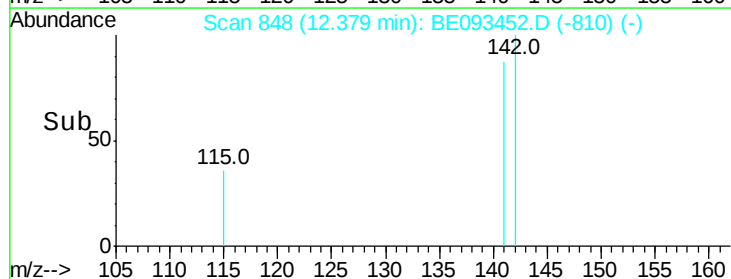
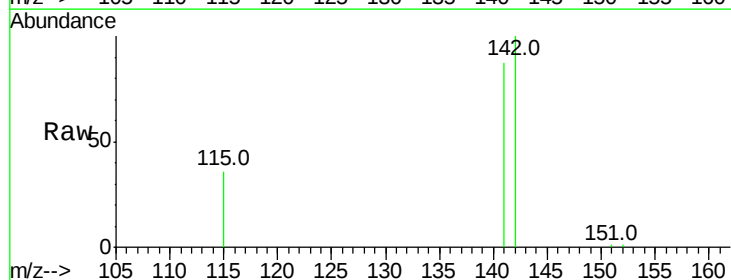
Tgt Ion:142 Resp: 11585

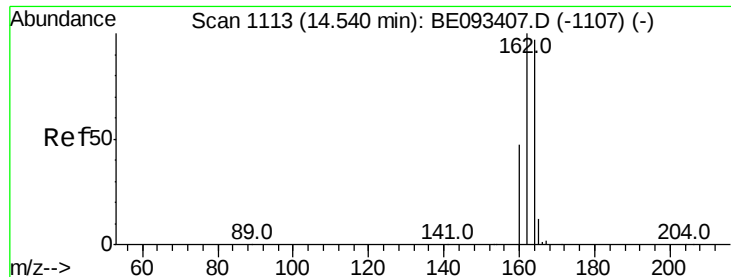
Ion Ratio Lower Upper

142 100

141 87.3 72.6 108.8

115 36.5 32.2 48.2





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.54 min Scan# 1113

Delta R.T. -0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

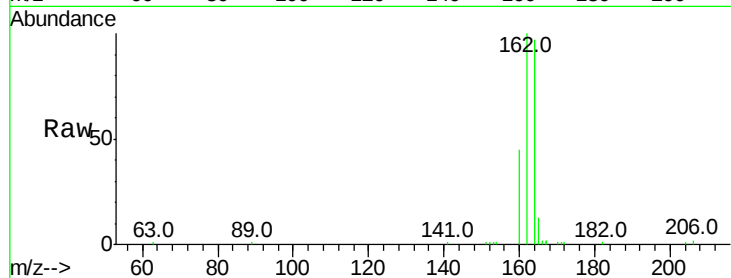
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:164 Resp: 10316

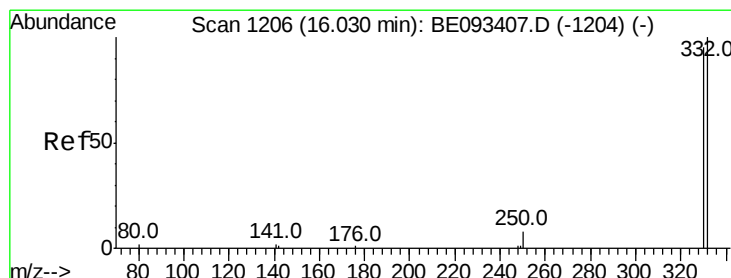
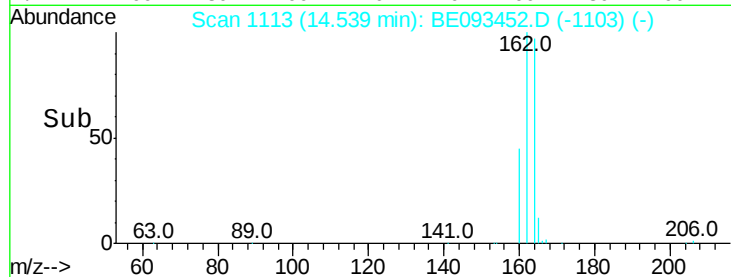
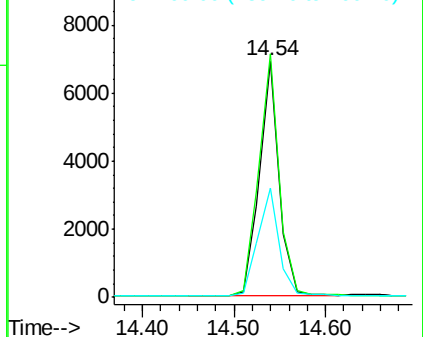
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 103.2 | 84.6  | 127.0 |
| 160 | 46.5  | 41.8  | 62.6  |



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: 0.179 ng

RT: 16.03 min Scan# 1206

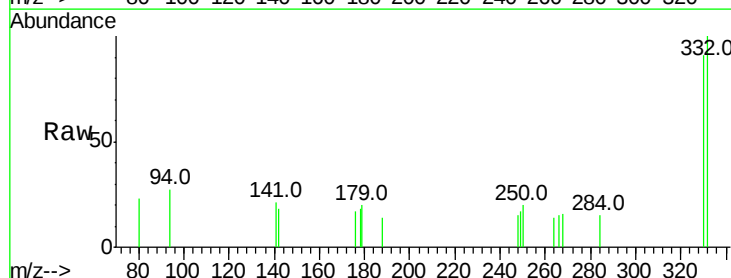
Delta R.T. -0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

Tgt Ion:330 Resp: 579

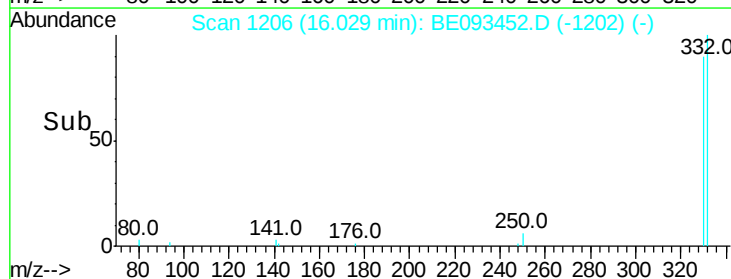
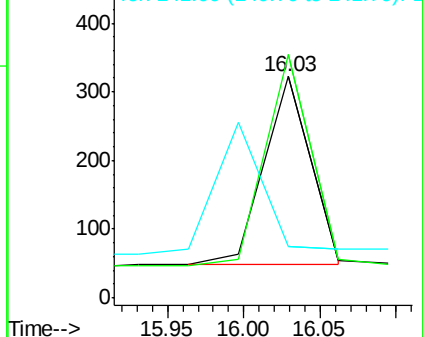
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 109.8 | 77.7  | 116.5 |
| 141 | 0.0   | 56.2  | 84.4# |

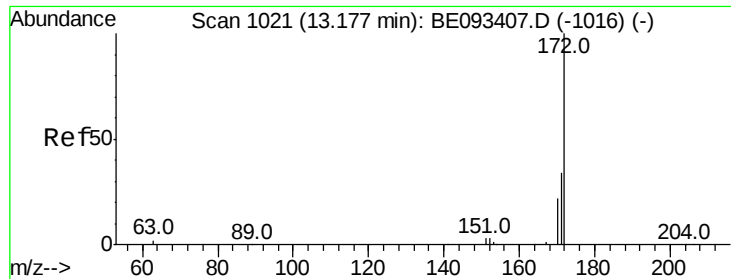


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

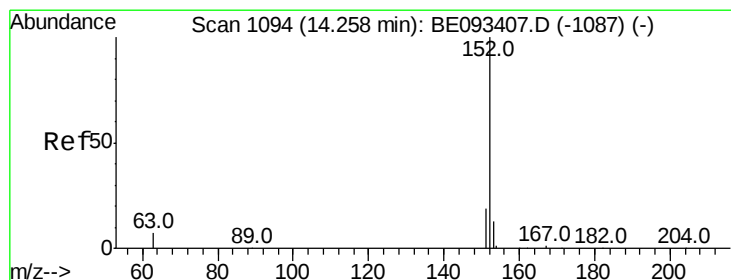
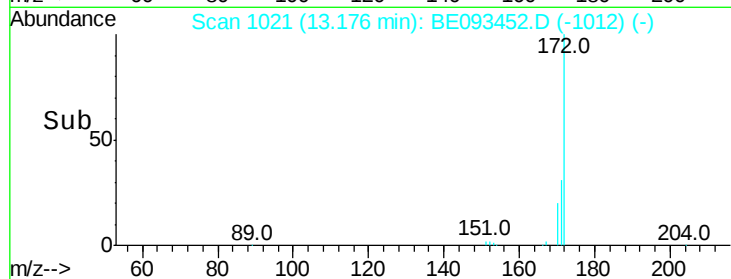
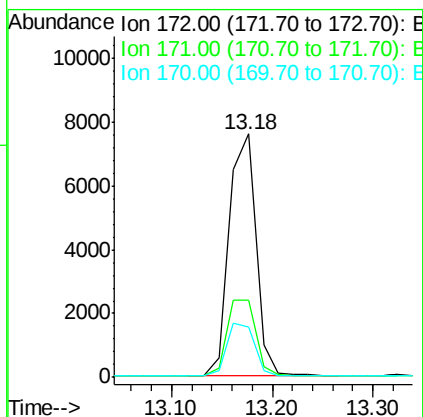
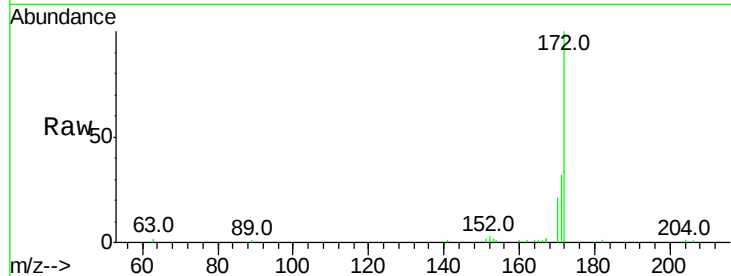




#15  
2-Fluorobiphenyl  
Concen: 0.350 ng  
RT: 13.18 min Scan# 1021  
Delta R.T. -0.00 min  
Lab File: BE093452.D  
Acq: 13 Jul 2017 10:17

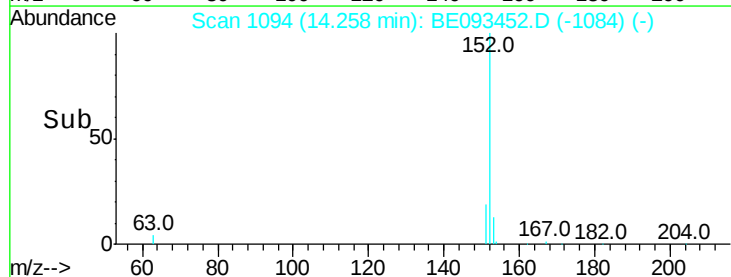
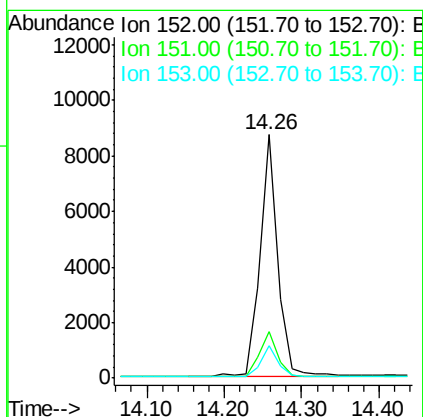
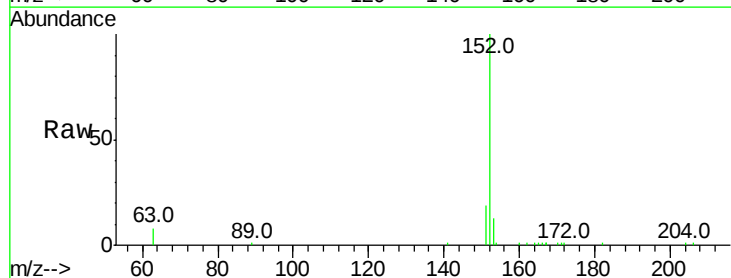
Instrument :  
BNA\_E  
ClientSampleId :

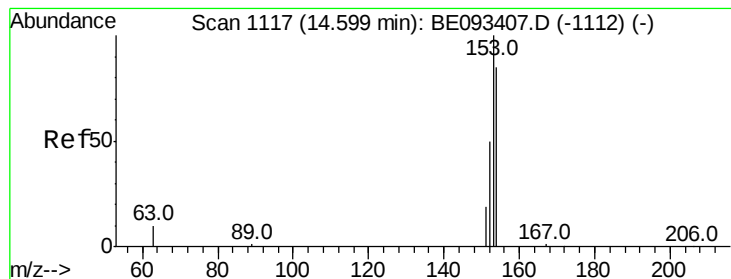
Tot Ion:172 Resp: 13999  
Ion Ratio Lower Upper  
172 100  
171 31.9 29.8 44.6  
170 20.8 20.7 31.1



#16  
Acenaphthylene  
Concen: 0.321 ng  
RT: 14.26 min Scan# 1094  
Delta R.T. -0.00 min  
Lab File: BE093452.D  
Acq: 13 Jul 2017 10:17

Tgt Ion:152 Resp: 13801  
Ion Ratio Lower Upper  
152 100  
151 19.5 4.0 6.0#  
153 12.6 10.3 15.5





#17

Acenaphthene

Concen: 0.310 ng

RT: 14.60 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

Instrument :

BNA\_E

ClientSampleId :

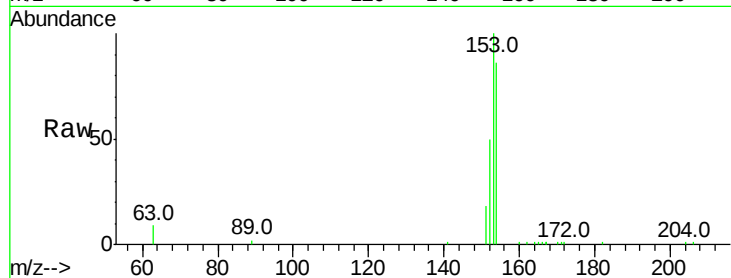
Tot Ion:154 Resp: 9772

Ion Ratio Lower Upper

154 100

153 115.0 91.2 136.8

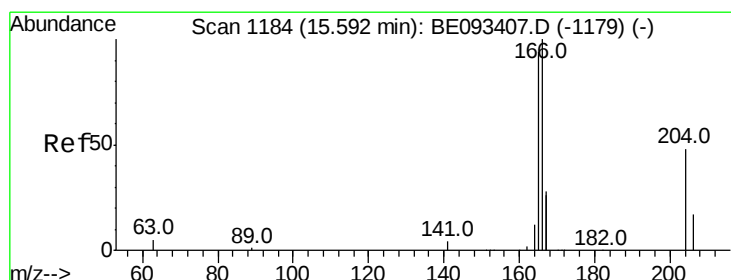
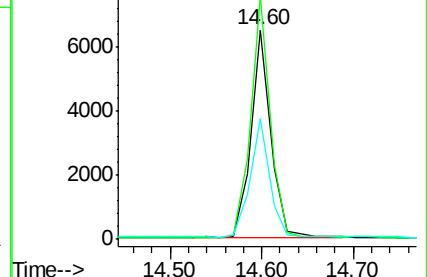
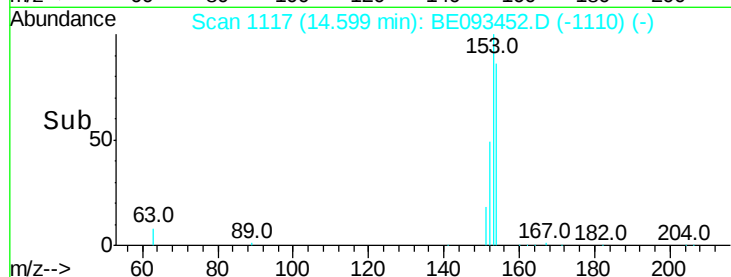
152 55.7 44.8 67.2



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



#18

Fluorene

Concen: 0.282 ng

RT: 15.58 min Scan# 1183

Delta R.T. -0.02 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

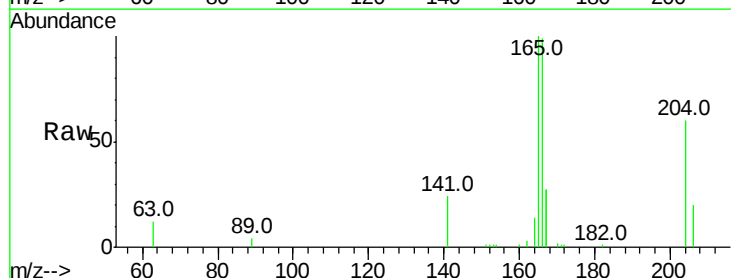
Tgt Ion:166 Resp: 12173

Ion Ratio Lower Upper

166 100

165 98.0 78.6 117.8

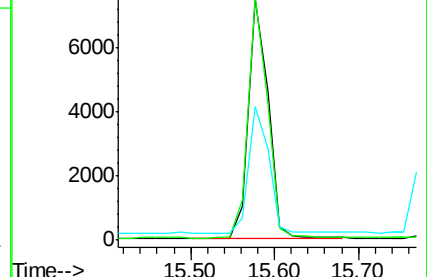
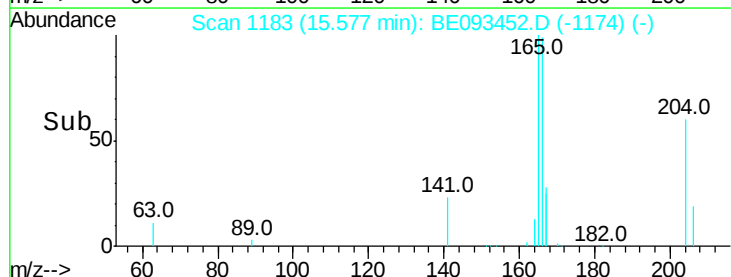
167 53.8 11.1 16.7#

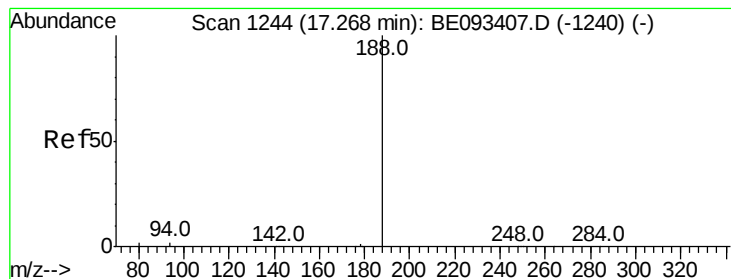


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.27 min Scan# 1244

Delta R.T. -0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

Instrument :

BNA\_E

ClientSampled :

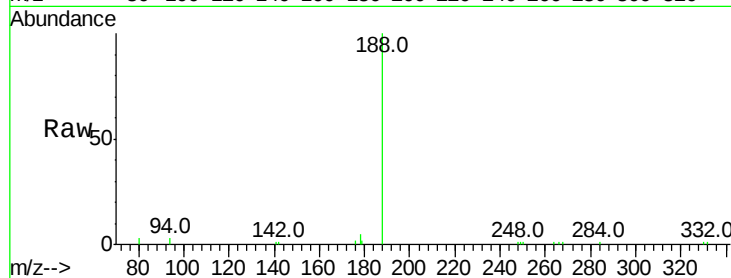
Tot Ion:188 Resp: 18164

Ion Ratio Lower Upper

188 100

94 2.9 11.3 16.9#

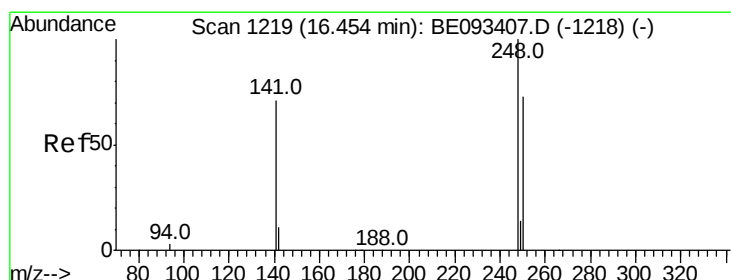
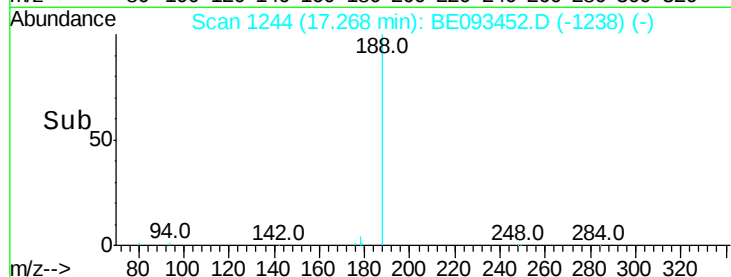
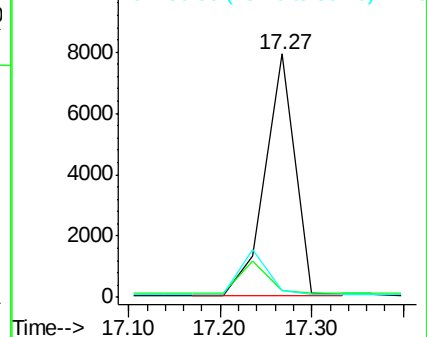
80 2.5 11.7 17.5#



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: 0.516 ng

RT: 16.45 min Scan# 1219

Delta R.T. -0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

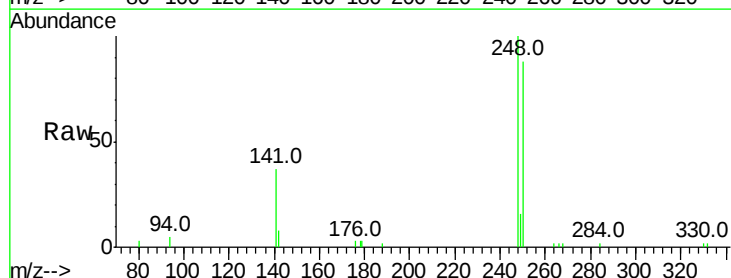
Tgt Ion:248 Resp: 5138

Ion Ratio Lower Upper

248 100

250 87.9 40.8 61.2#

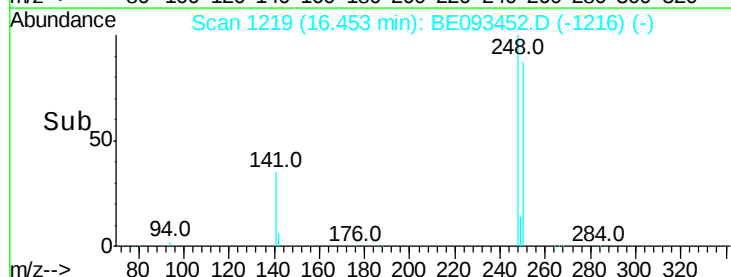
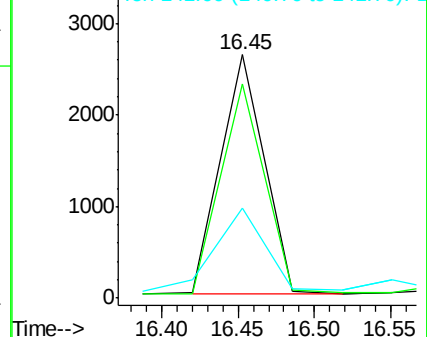
141 37.0 161.6 242.4#

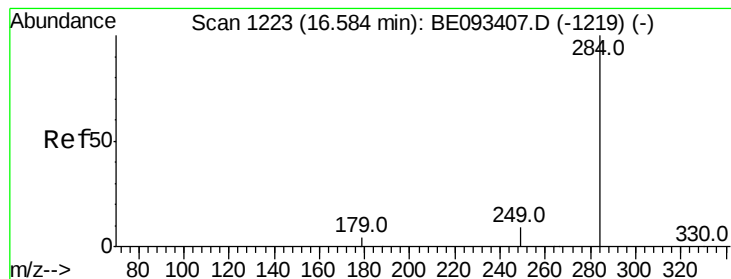


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.413 ng

RT: 16.58 min Scan# 1223

Delta R.T. -0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

Instrument :

BNA\_E

ClientSampleId :

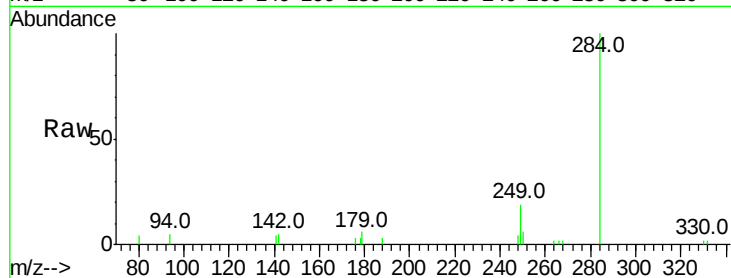
Tot Ion:284 Resp: 4437

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

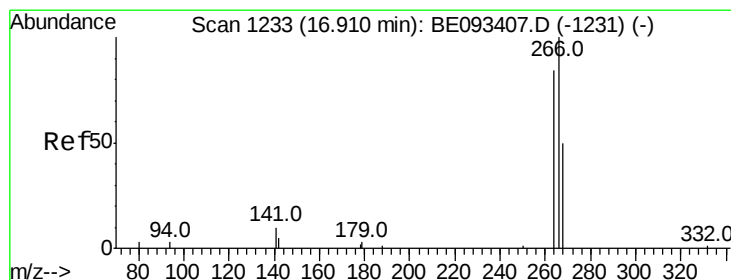
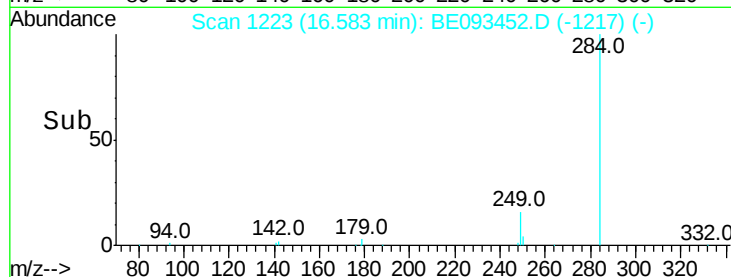
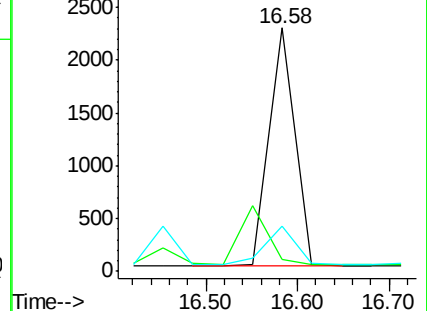
249 19.1 0.0 0.0#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.957 ng

RT: 16.91 min Scan# 1233

Delta R.T. 0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

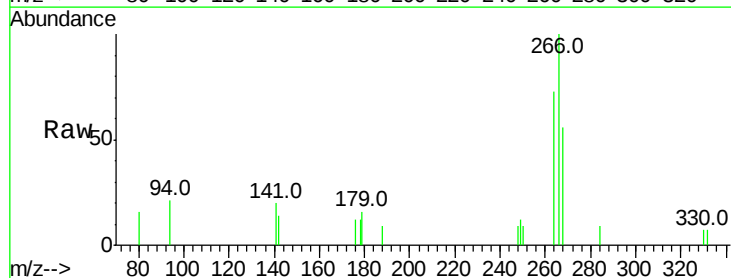
Tgt Ion:266 Resp: 1412

Ion Ratio Lower Upper

266 100

264 72.7 58.2 87.2

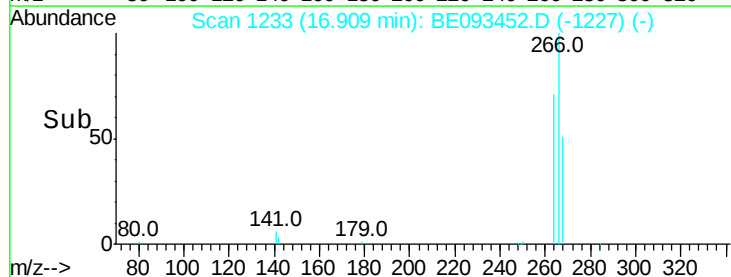
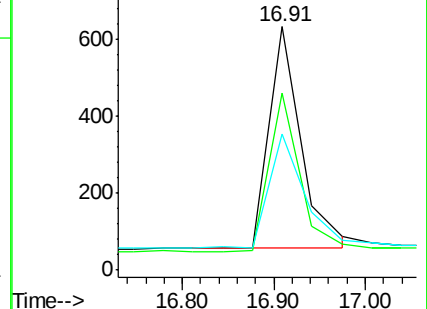
268 55.9 71.9 107.9#

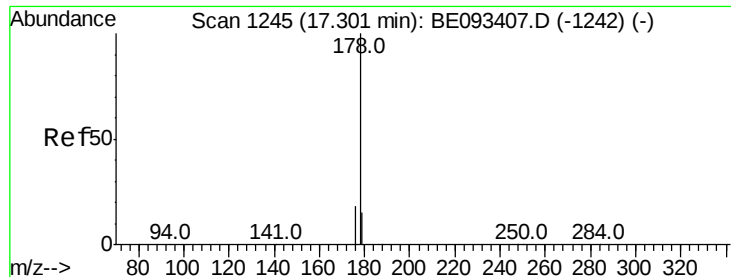


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.368 ng

RT: 17.30 min Scan# 1245

Delta R.T. -0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

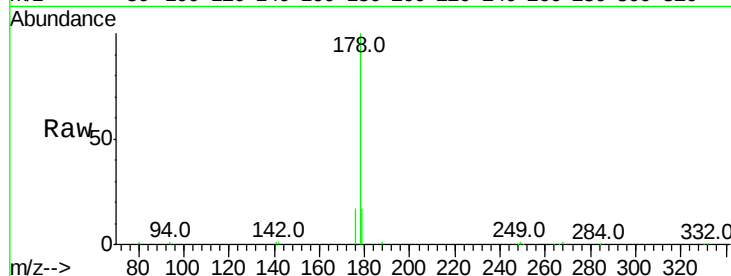
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:178 Resp: 24276

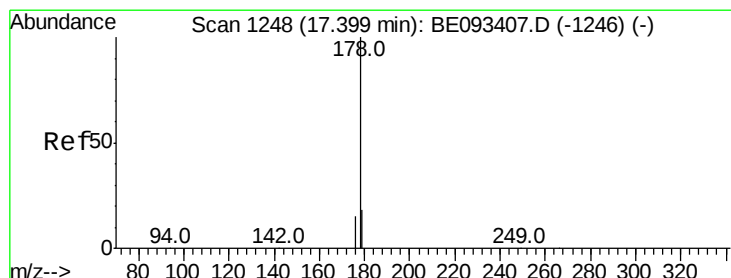
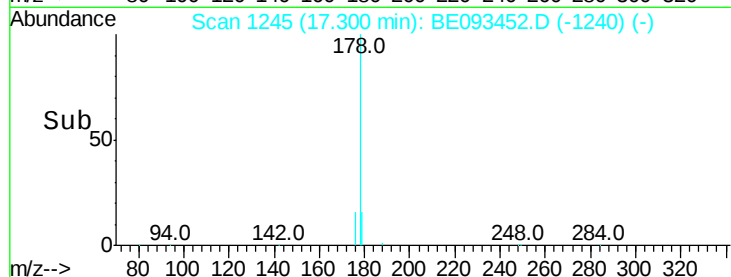
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 16.4  | 15.0  | 22.4  |
| 179 | 16.6  | 12.7  | 19.1  |



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.625 ng

RT: 17.30 min Scan# 1245

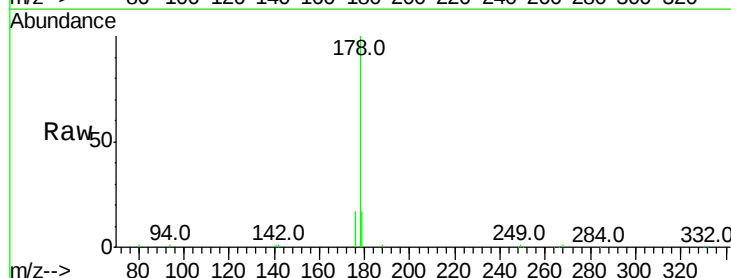
Delta R.T. -0.10 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

Tgt Ion:178 Resp: 25304

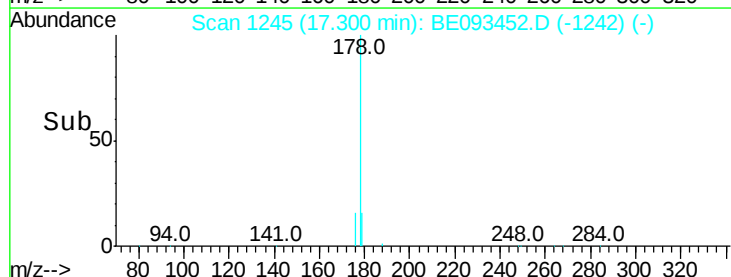
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 16.1  | 14.6  | 22.0  |
| 179 | 15.7  | 12.0  | 18.0  |

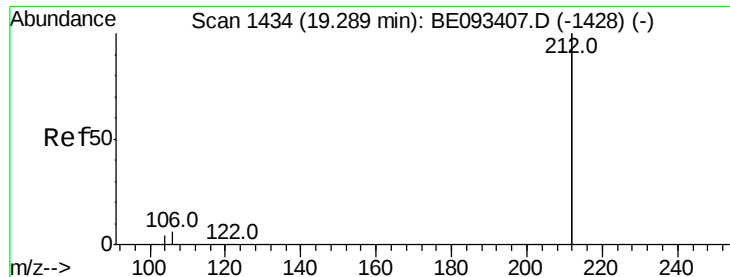


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.390 ng

RT: 19.28 min Scan# 1433

Delta R.T. -0.01 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

Instrument :

BNA\_E

ClientSampled :

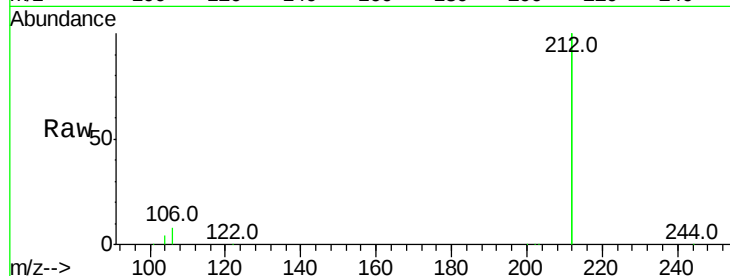
Tot Ion:212 Resp: 85470

Ion Ratio Lower Upper

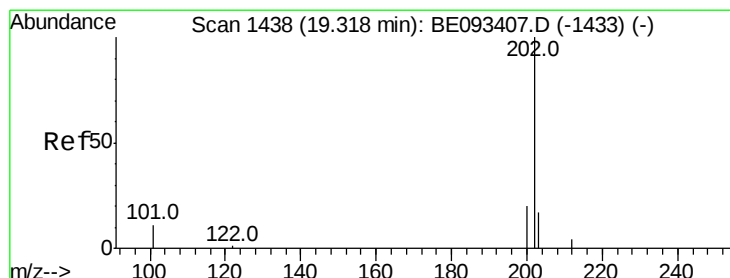
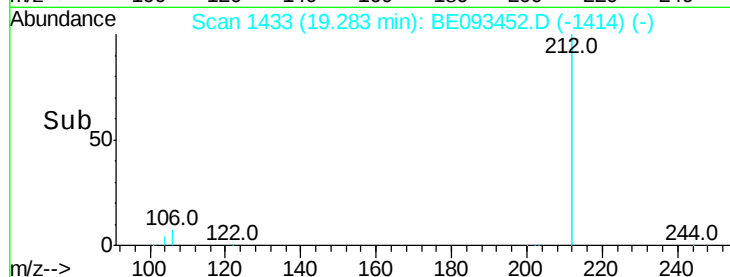
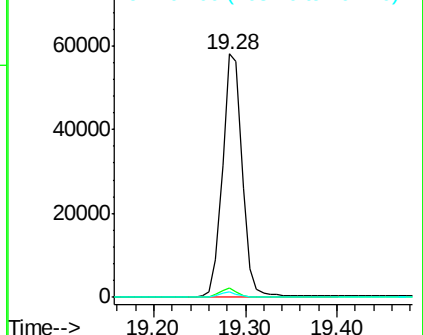
212 100

106 3.4 2.4 3.6

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



#26

Fluoranthene

Concen: 0.398 ng

RT: 19.31 min Scan# 1437

Delta R.T. -0.01 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

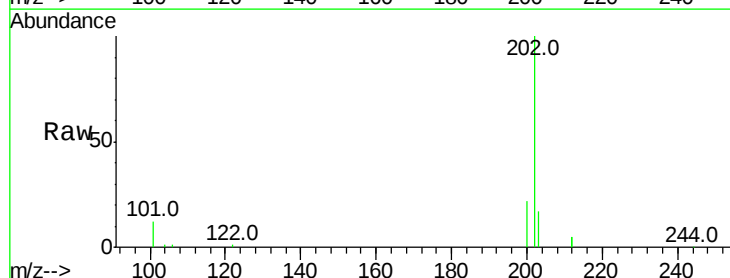
Tgt Ion:202 Resp: 24676

Ion Ratio Lower Upper

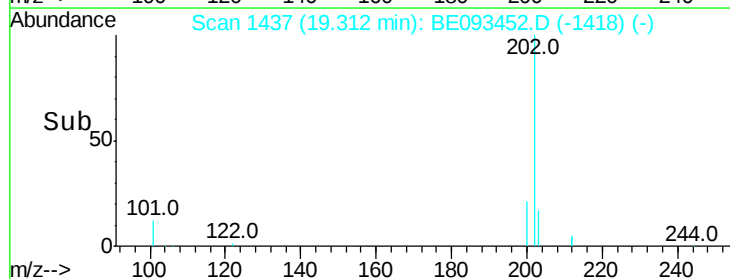
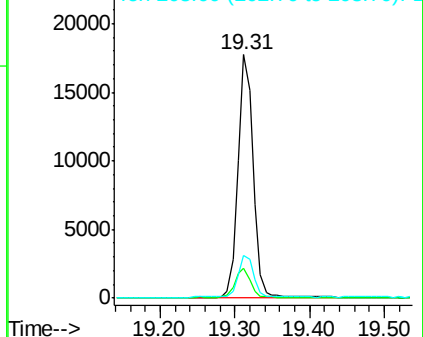
202 100

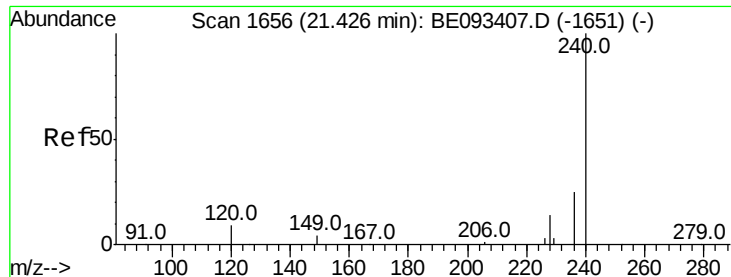
101 11.7 9.6 14.4

203 17.2 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.43 min Scan# 1656

Delta R.T. -0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

Instrument :

BNA\_E

ClientSampled :

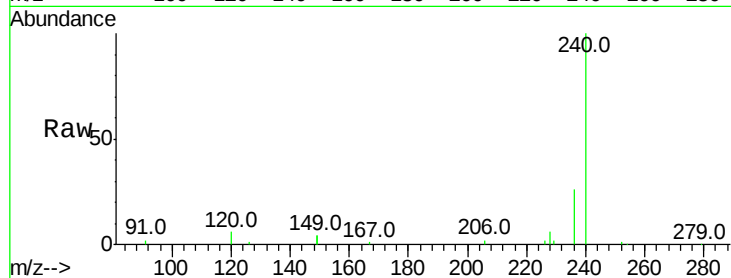
Tot Ion:240 Resp: 32804

Ion Ratio Lower Upper

240 100

120 6.3 4.6 7.0

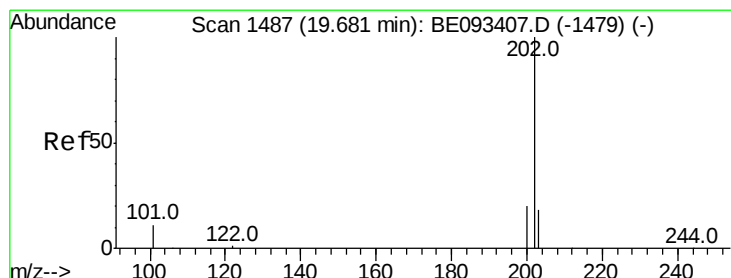
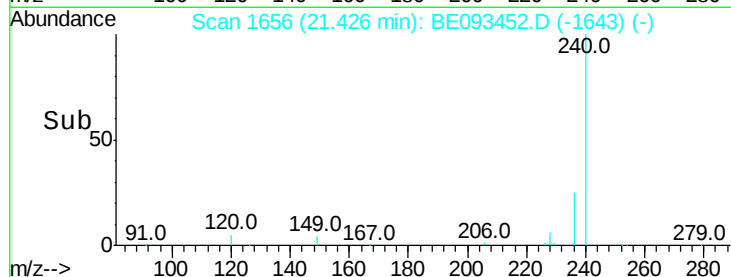
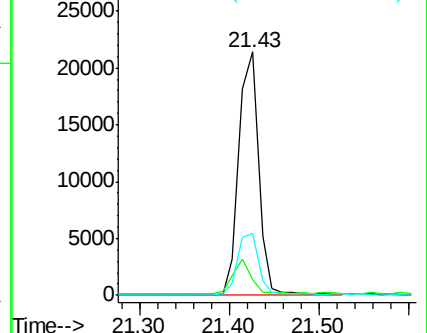
236 25.5 20.8 31.2



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



#28

Pyrene

Concen: 0.278 ng

RT: 19.67 min Scan# 1486

Delta R.T. -0.01 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

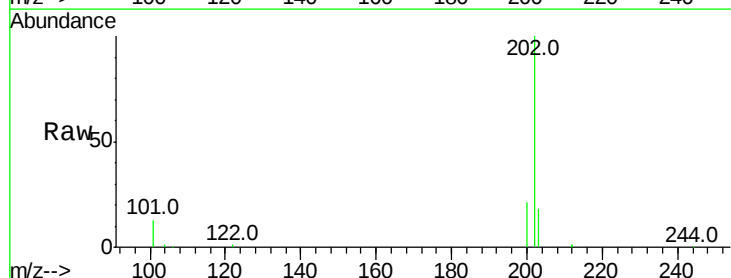
Tgt Ion:202 Resp: 25664

Ion Ratio Lower Upper

202 100

200 20.5 0.0 0.0#

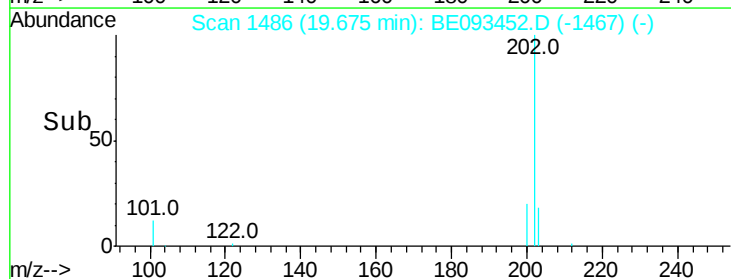
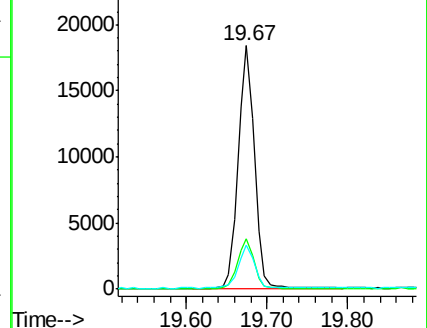
203 17.8 13.7 20.5

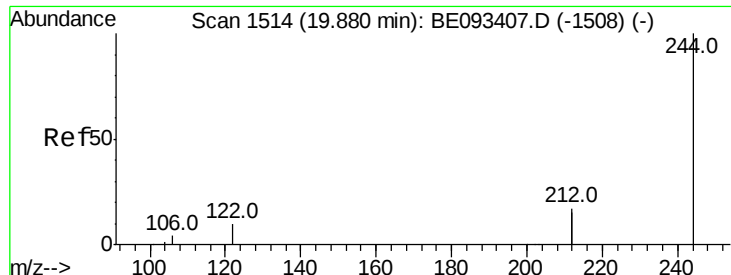


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.268 ng

RT: 19.87 min Scan# 1513

Delta R.T. -0.01 min

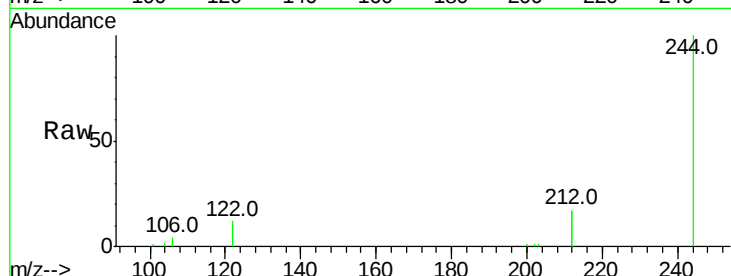
Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

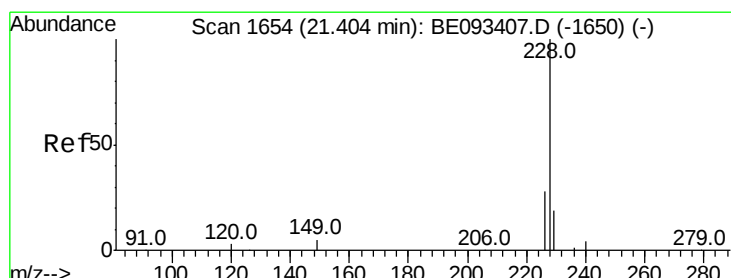
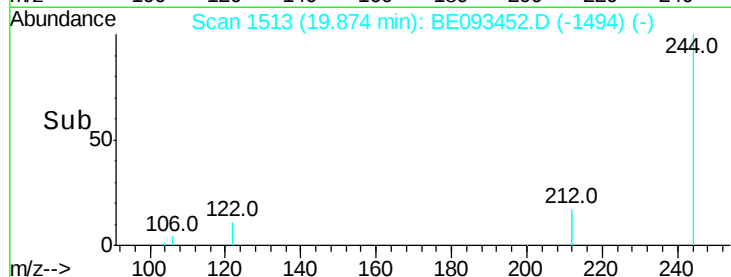
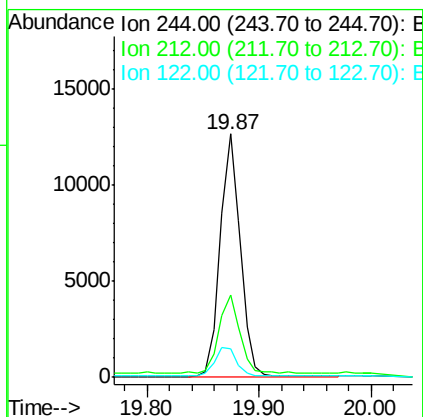
Instrument :

BNA\_E

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 244   | Resp: | 15704 |
| Ion      | Ratio | Lower | Upper |
| 244      | 100   |       |       |
| 212      | 33.9  | 10.6  | 16.0# |
| 122      | 11.7  | 15.4  | 23.0# |



#30

Benzo(a)anthracene

Concen: 0.326 ng

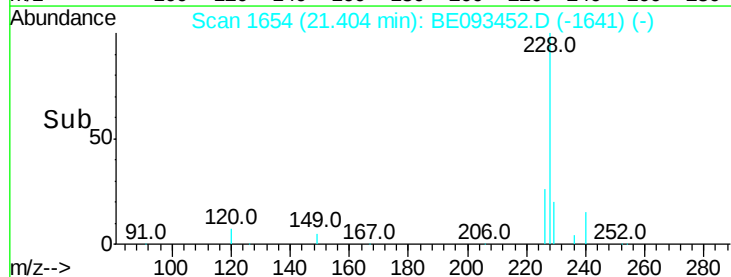
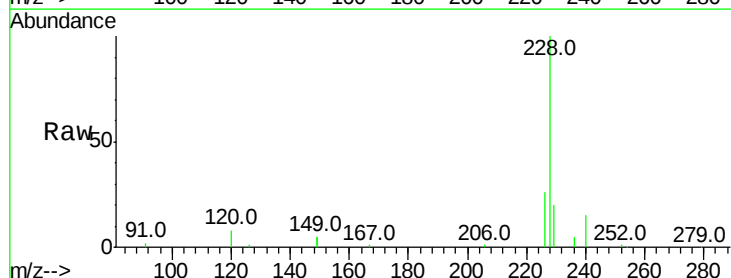
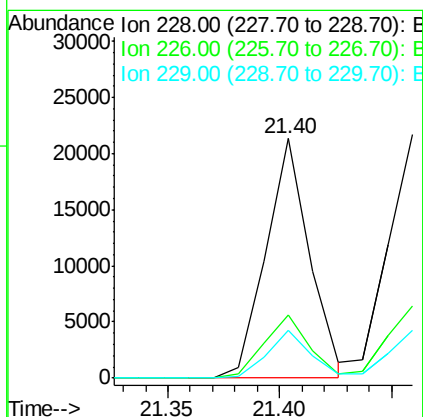
RT: 21.40 min Scan# 1654

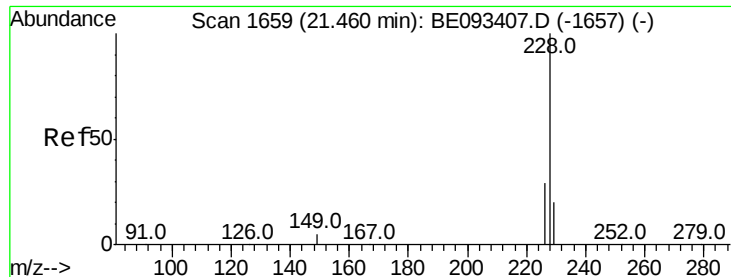
Delta R.T. -0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 28825 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 26.5  | 19.7  | 29.5  |
| 229      | 20.1  | 19.2  | 28.8  |





#31

Chrysene

Concen: 0.330 ng

RT: 21.46 min Scan# 1659

Delta R.T. -0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

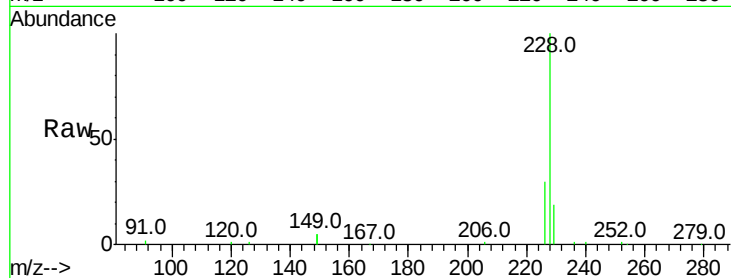
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:228 Resp: 30557

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.5  | 21.5  | 32.3  |
| 229 | 19.5  | 18.6  | 28.0  |

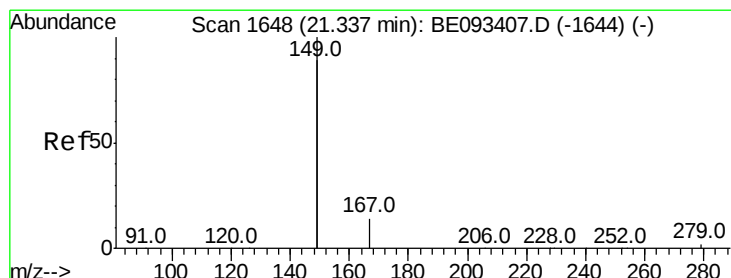
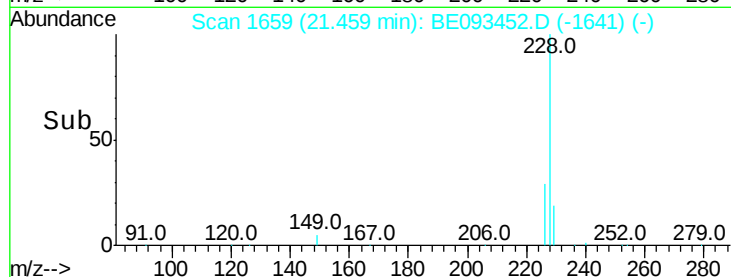
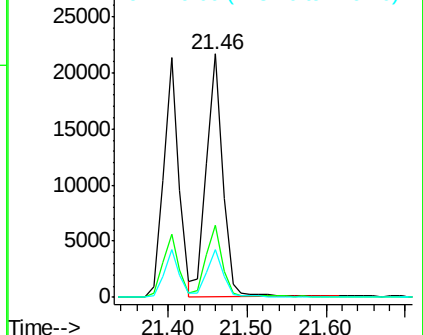


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.263 ng

RT: 21.33 min Scan# 1647

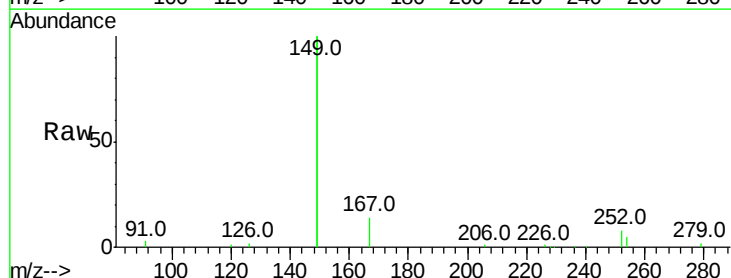
Delta R.T. -0.01 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

Tgt Ion:149 Resp: 33489

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.9   | 20.1  | 30.1# |
| 279 | 0.9   | 2.2   | 3.4#  |

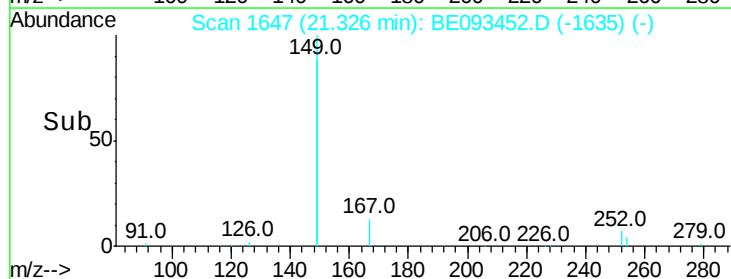
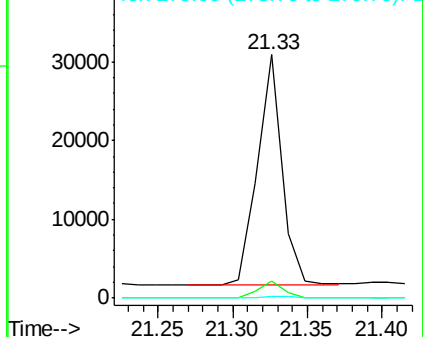


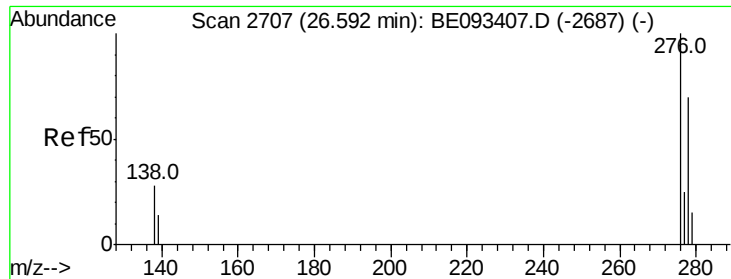
Abundance

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

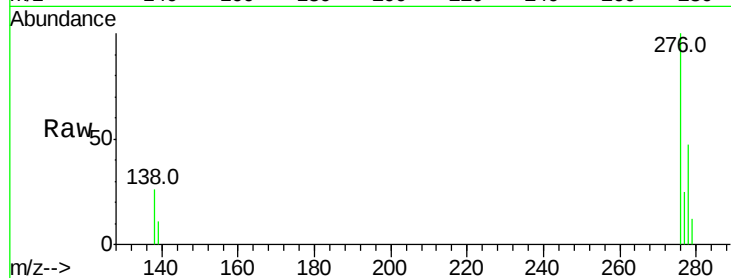




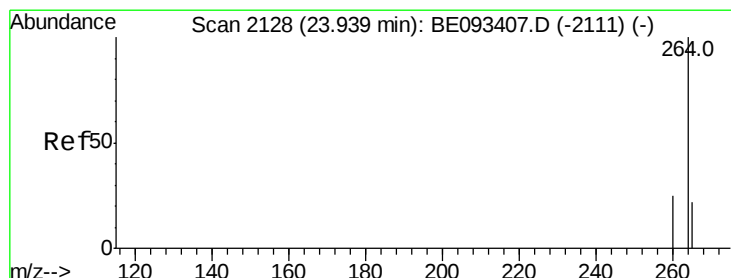
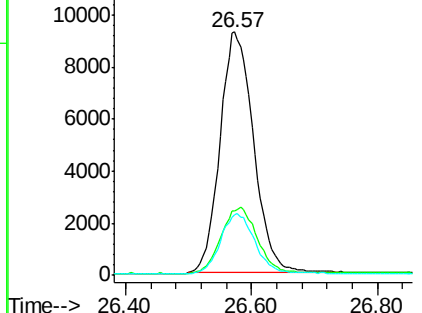
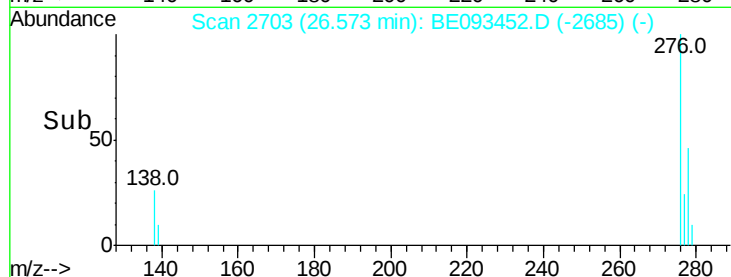
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.423 ng  
 RT: 26.57 min Scan# 2703  
 Delta R.T. -0.02 min  
 Lab File: BE093452.D  
 Acq: 13 Jul 2017 10:17

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:276 Resp: 34377  
 Ion Ratio Lower Upper  
 276 100  
 138 28.9 27.4 41.2  
 277 25.0 20.1 30.1

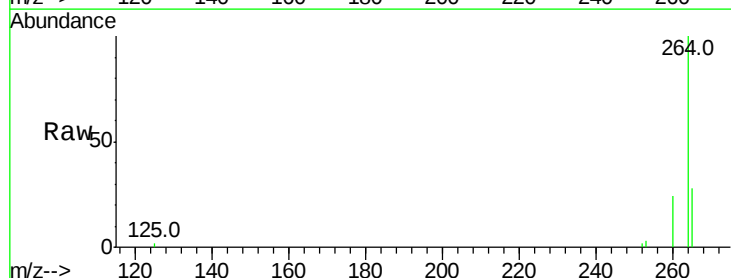


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

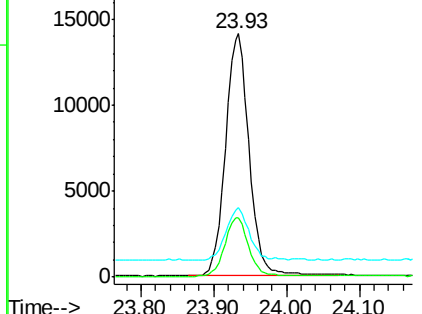
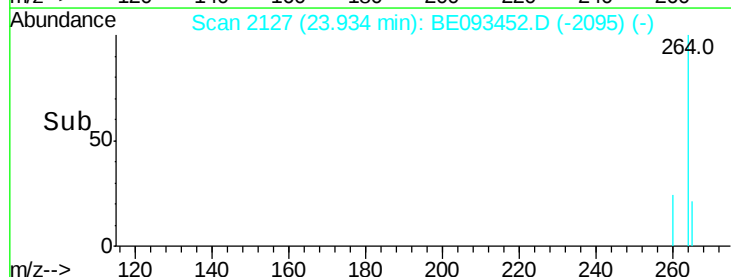


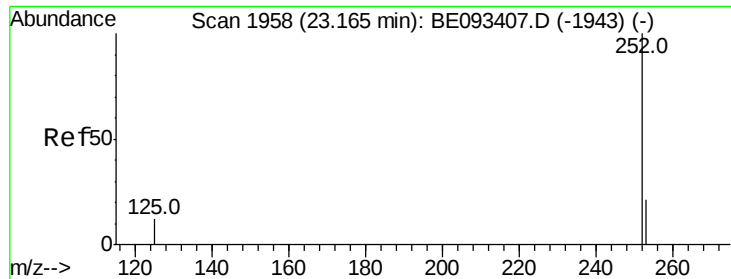
#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.93 min Scan# 2127  
 Delta R.T. -0.00 min  
 Lab File: BE093452.D  
 Acq: 13 Jul 2017 10:17

Tgt Ion:264 Resp: 31897  
 Ion Ratio Lower Upper  
 264 100  
 260 24.4 21.0 31.4  
 265 28.4 24.6 36.8



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





#35

Benzo(b)fluoranthene

Concen: 0.314 ng

RT: 23.16 min Scan# 1957

Delta R.T. -0.00 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

Instrument :

BNA\_E

ClientSampleId :

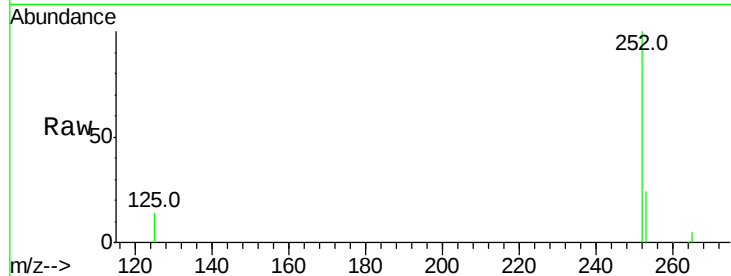
Tot Ion:252 Resp: 32299

Ion Ratio Lower Upper

252 100

253 24.0 18.5 27.7

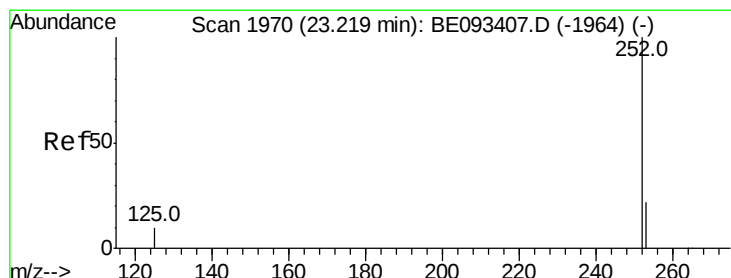
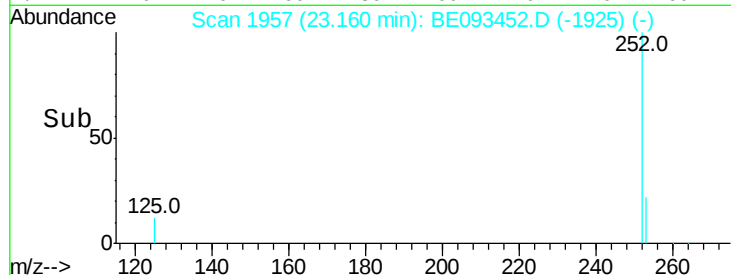
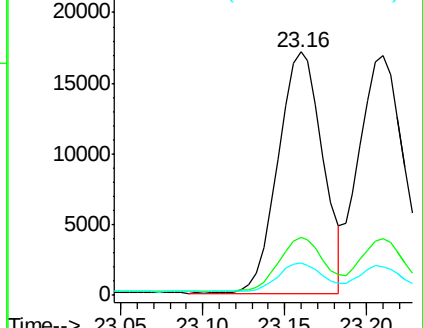
125 13.5 13.4 20.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.317 ng

RT: 23.16 min Scan# 1957

Delta R.T. -0.06 min

Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

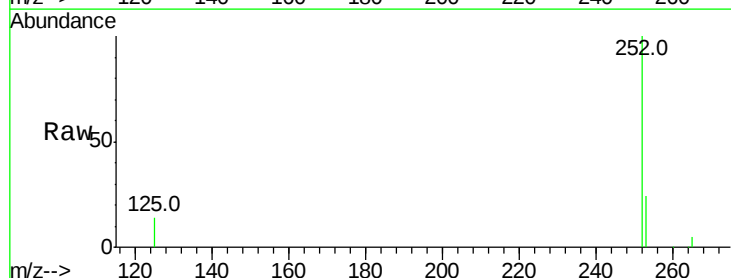
Tgt Ion:252 Resp: 32299

Ion Ratio Lower Upper

252 100

253 24.0 20.3 30.5

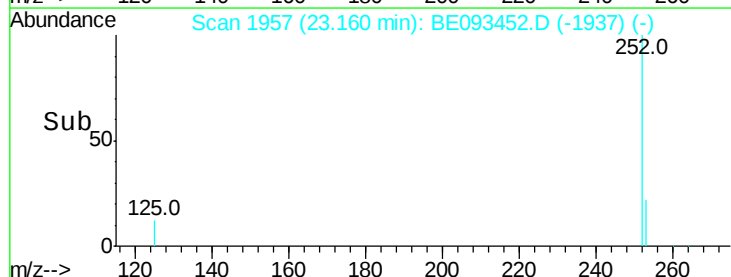
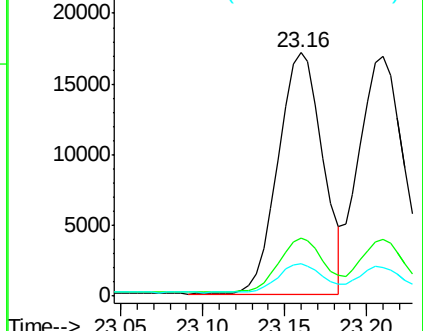
125 13.5 12.2 18.4

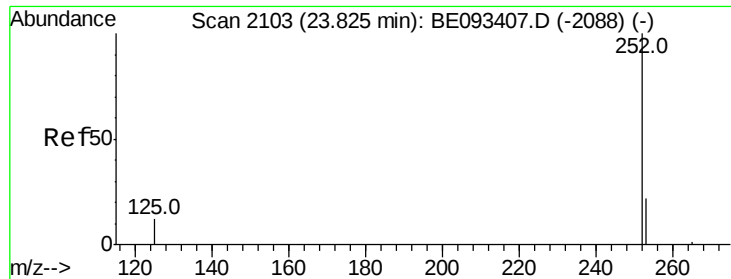


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

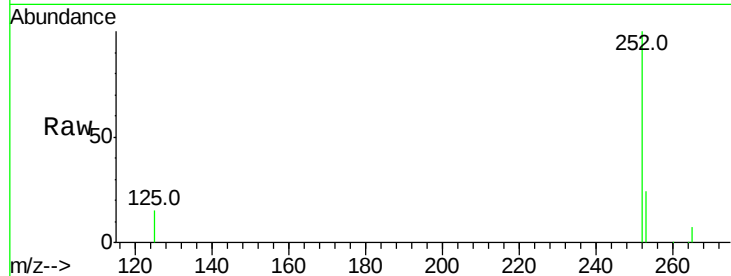




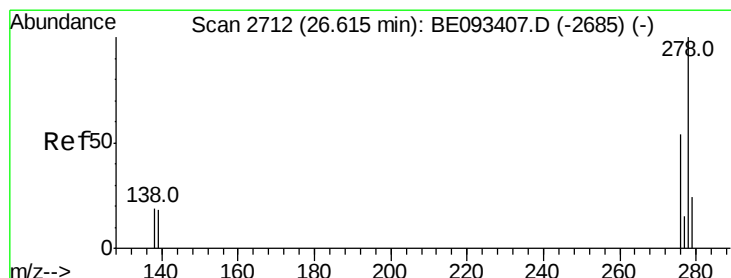
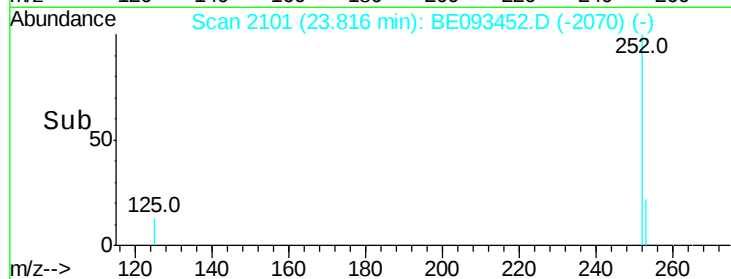
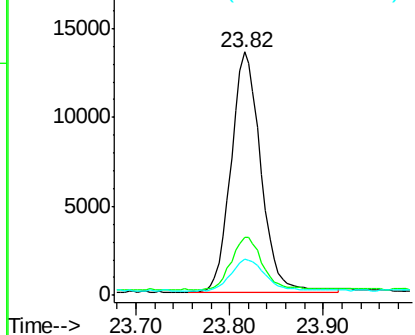
#37  
Benzo(a)pyrene  
Concen: 0.331 ng  
RT: 23.82 min Scan# 2101  
Delta R.T. -0.01 min  
Lab File: BE093452.D  
Acq: 13 Jul 2017 10:17

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:252 Resp: 29834  
Ion Ratio Lower Upper  
252 100  
253 23.8 19.9 29.9  
125 15.0 14.6 21.8

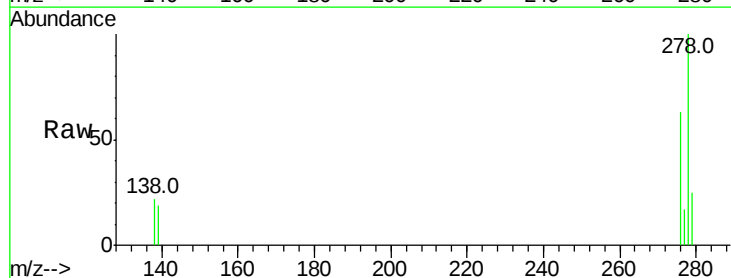


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

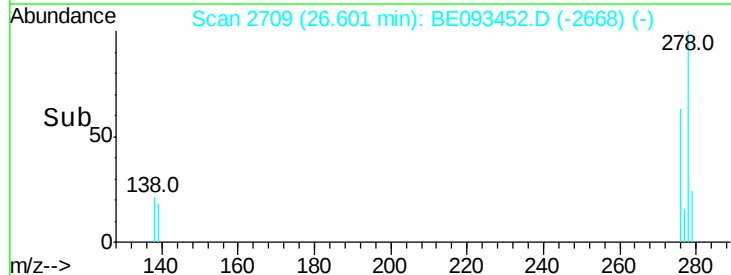
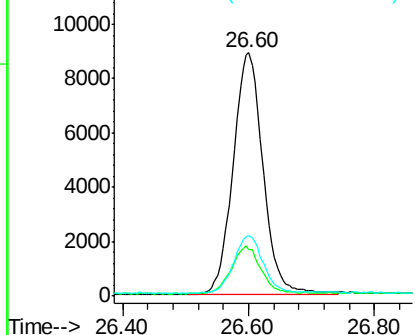


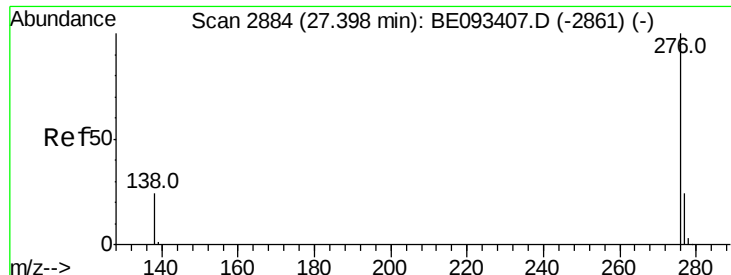
#38  
Dibenzo(a,h)anthracene  
Concen: 0.336 ng  
RT: 26.60 min Scan# 2709  
Delta R.T. -0.01 min  
Lab File: BE093452.D  
Acq: 13 Jul 2017 10:17

Tgt Ion:278 Resp: 29461  
Ion Ratio Lower Upper  
278 100  
139 19.1 21.4 32.0#  
279 25.0 22.2 33.2



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.338 ng

RT: 27.39 min Scan# 2882

Delta R.T. -0.01 min

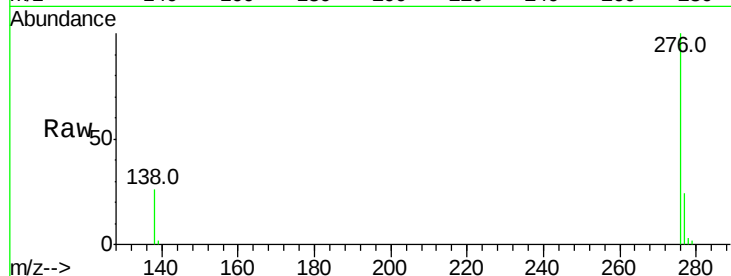
Lab File: BE093452.D

Acq: 13 Jul 2017 10:17

Instrument :

BNA\_E

ClientSampleId :



Tot Ion:276 Resp: 29933

Ion Ratio Lower Upper

276 100

277 23.9 21.2 31.8

138 25.9 24.5 36.7

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

