

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE092118\  
 Data File : BE097613.D  
 Acq On : 21 Sep 2018 16:02  
 Operator : SJ/JU  
 Sample : PB112956BS  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Sep 22 04:08:02 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE091918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 20 10:54:43 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 1071     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.12 | 136  | 4578     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.00 | 164  | 2245     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.75 | 188  | 5274     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 20.97 | 240  | 7262     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.20 | 264  | 7597     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.06  | 112 | 1230  | 0.38 | ng | 0.01 |
| 5) Phenol-d6                | 6.62  | 99  | 1364  | 0.33 | ng | 0.01 |
| 8) Nitrobenzene-d5          | 8.53  | 82  | 1330  | 0.38 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.72 | 152 | 3342  | 0.53 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.53 | 330 | 215   | 0.29 | ng | 0.01 |
| 15) 2-Fluorobiphenyl        | 12.62 | 172 | 3692  | 0.47 | ng | 0.00 |
| 25) Fluoranthene-d10        | 18.80 | 212 | 25292 | 0.37 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.42 | 244 | 4551  | 0.34 | ng | 0.00 |

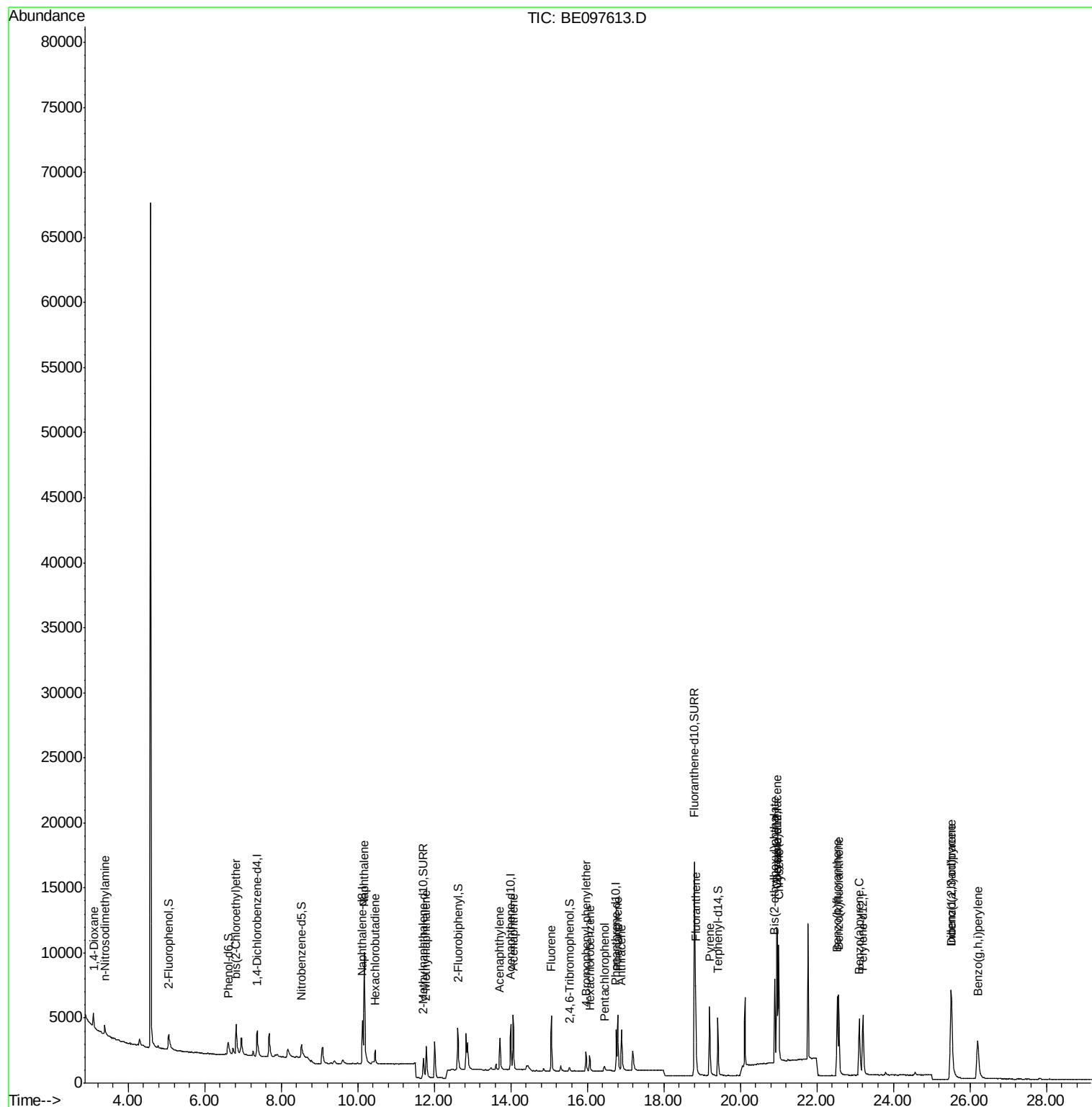
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.09  | 88  | 589   | 0.313  | ng | # 74 |
| 3) n-Nitrosodimethylamine      | 3.38  | 42  | 552   | 0.357  | ng | # 86 |
| 6) bis(2-Chloroethyl)ether     | 6.82  | 93  | 1267  | 0.333  | ng | 82   |
| 9) Naphthalene                 | 10.17 | 128 | 16947 | 0.411  | ng | 99   |
| 10) Hexachlorobutadiene        | 10.46 | 225 | 712   | 0.375  | ng | 96   |
| 12) 2-Methylnaphthalene        | 11.80 | 142 | 2507  | 0.390  | ng | 100  |
| 16) Acenaphthylene             | 13.71 | 152 | 3385  | 0.381  | ng | 99   |
| 17) Acenaphthene               | 14.06 | 154 | 2298  | 0.386  | ng | 95   |
| 18) Fluorene                   | 15.06 | 166 | 2921  | 0.377  | ng | # 79 |
| 20) 4-Bromophenyl-phenylether  | 15.96 | 248 | 901   | 0.379  | ng | # 80 |
| 21) Hexachlorobenzene          | 16.07 | 284 | 1071  | 0.410  | ng | # 84 |
| 22) Pentachlorophenol          | 16.45 | 266 | 347   | 0.426  | ng | # 81 |
| 23) Phenanthrene               | 16.80 | 178 | 4924  | 0.393  | ng | 98   |
| 24) Anthracene                 | 16.89 | 178 | 4246  | 0.384  | ng | 96   |
| 26) Fluoranthene               | 18.83 | 202 | 6129  | 0.353  | ng | 98   |
| 28) Pyrene                     | 19.20 | 202 | 6229  | 0.377  | ng | 99   |
| 30) Benzo(a)anthracene         | 20.96 | 228 | 7214  | 0.395  | ng | 96   |
| 31) Chrysene                   | 21.00 | 228 | 8067  | 0.411  | ng | 100  |
| 32) Bis(2-ethylhexyl)phthalate | 20.89 | 149 | 8088  | 0.274  | ng | # 99 |
| 33) Indeno(1,2,3-cd)pyrene     | 25.50 | 276 | 10438 | 0.442  | ng | # 93 |
| 35) Benzo(b)fluoranthene       | 22.53 | 252 | 7931  | 0.407  | ng | # 89 |
| 36) Benzo(k)fluoranthene       | 22.57 | 252 | 9161  | 0.412  | ng | 94   |
| 37) Benzo(a)pyrene             | 23.11 | 252 | 8053  | 0.425  | ng | # 91 |
| 38) Dibenzo(a,h)anthracene     | 25.52 | 278 | 8618  | 0.422  | ng | # 94 |
| 39) Benzo(g,h,i)perylene       | 26.21 | 276 | 8603  | 0.433  | ng | # 90 |

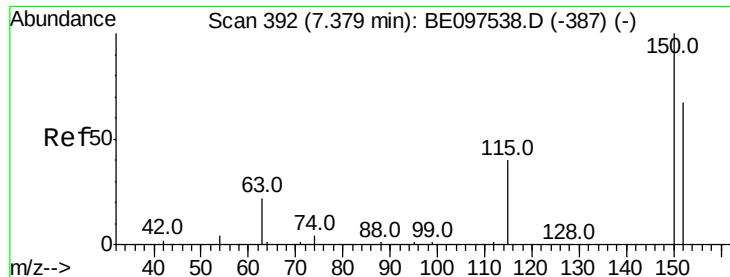
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BE097613.D  
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Sample : PB112956BS  
Misc :  
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Instrument :  
BNA\_E  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Sep 20 10:54:43 2018  
Response via : Initial Calibration



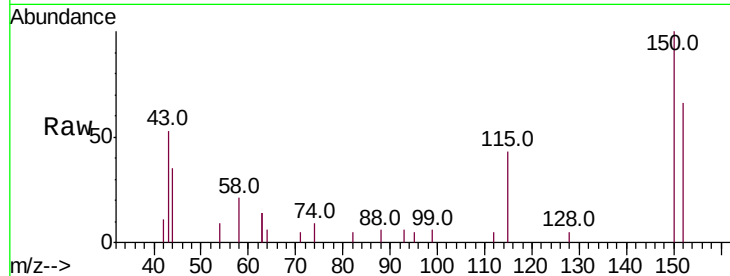


#1

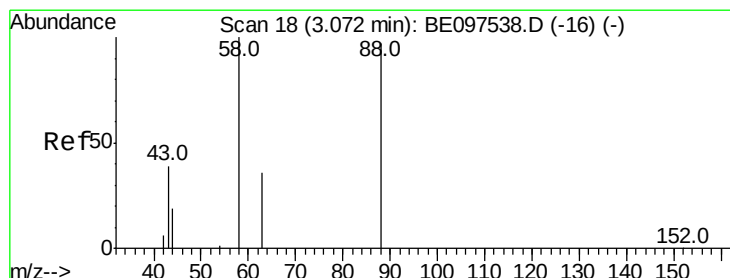
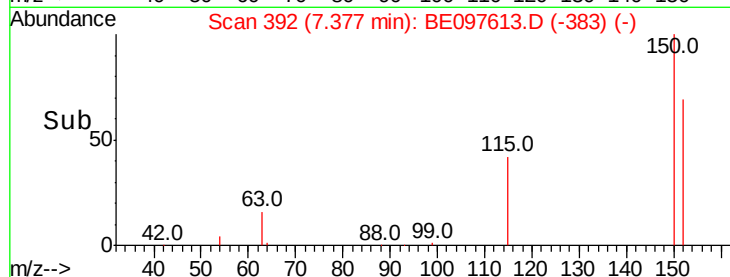
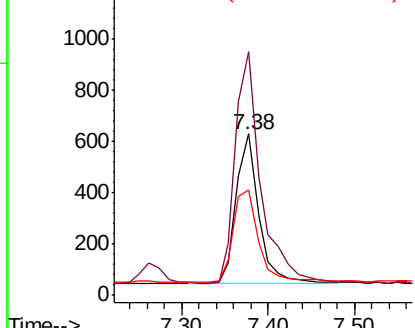
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.38 min Scan# 392  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Instrument :  
BNA\_E  
ClientSampled :

Tot Ion:152 Resp: 1071  
Ion Ratio Lower Upper  
152 100  
150 150.9 117.2 175.8  
115 65.0 57.0 85.6



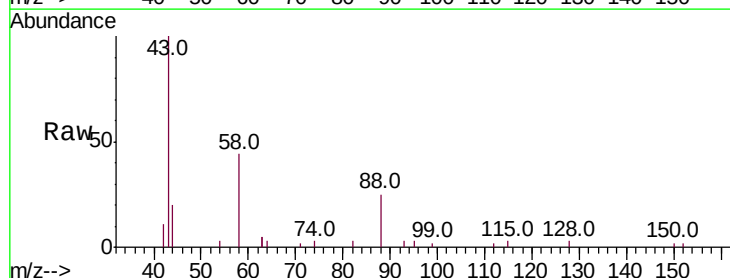
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



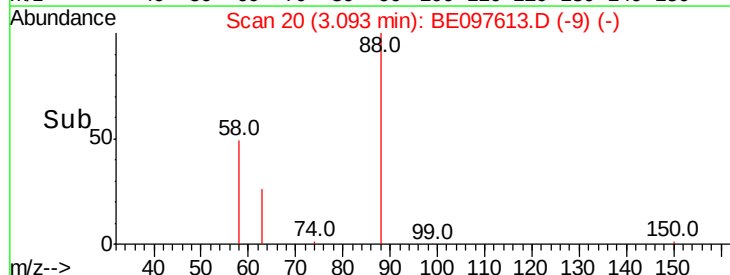
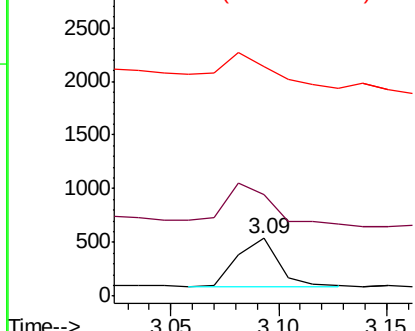
#2

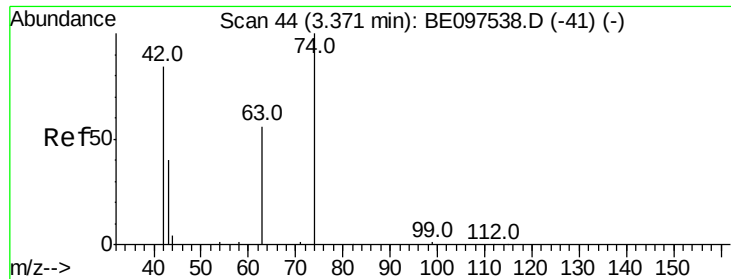
1,4-Dioxane  
Concen: 0.313 ng  
RT: 3.09 min Scan# 20  
Delta R.T. 0.02 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Tgt Ion: 88 Resp: 589  
Ion Ratio Lower Upper  
88 100  
58 85.6 63.2 94.8  
43 89.8 41.2 61.8#



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

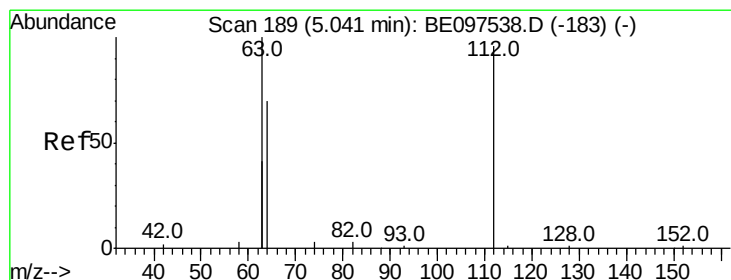
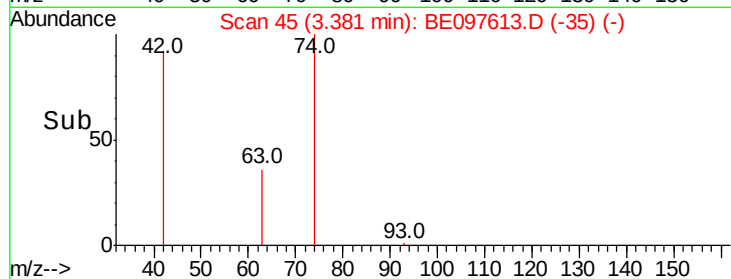
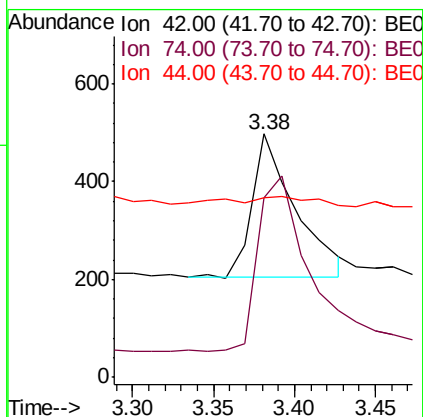
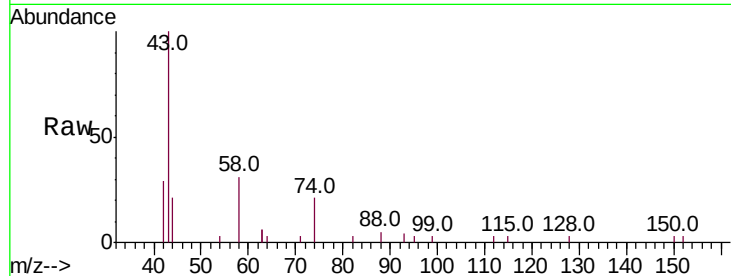




#3  
n-Nitrosodimethylamine  
Concen: 0.357 ng  
RT: 3.38 min Scan# 45  
Delta R.T. 0.01 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

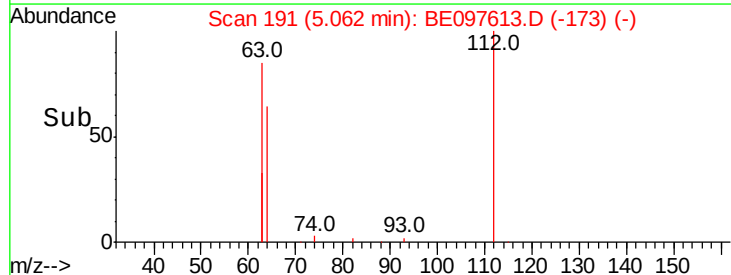
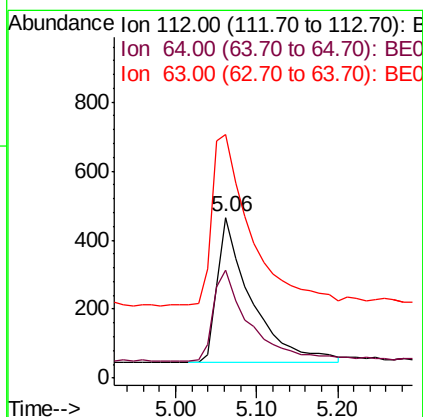
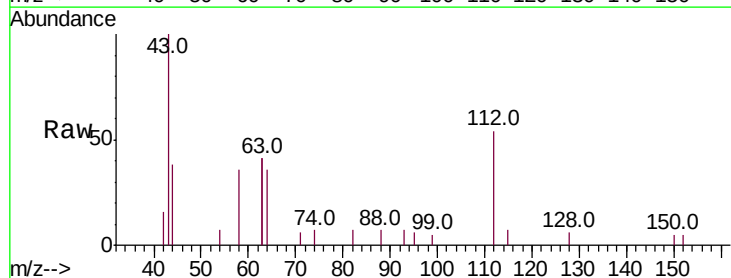
Instrument :  
BNA\_E  
ClientSampleId :

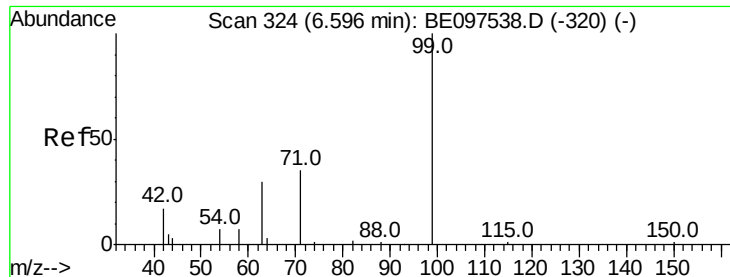
Tot Ion: 42 Resp: 552  
Ion Ratio Lower Upper  
42 100  
74 136.8 96.0 144.0  
44 11.8 12.0 18.0#



#4  
2-Fluorophenol  
Concen: 0.383 ng  
RT: 5.06 min Scan# 191  
Delta R.T. 0.01 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Tgt Ion: 112 Resp: 1230  
Ion Ratio Lower Upper  
112 100  
64 66.9 60.1 90.1  
63 137.7 116.8 175.2





#5

Phenol-d6

Concen: 0.332 ng

RT: 6.62 min Scan# 326

Delta R.T. 0.01 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

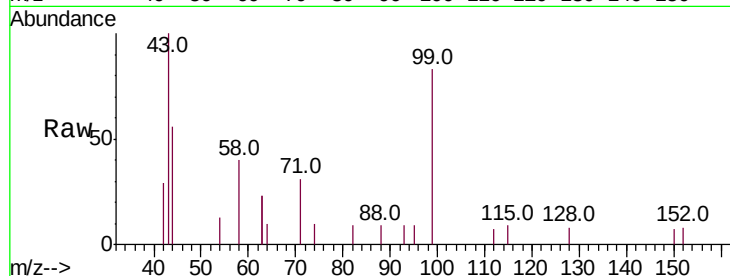
Tot Ion: 99 Resp: 1364

Ion Ratio Lower Upper

99 100

42 21.6 20.2 30.2

71 34.5 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

600

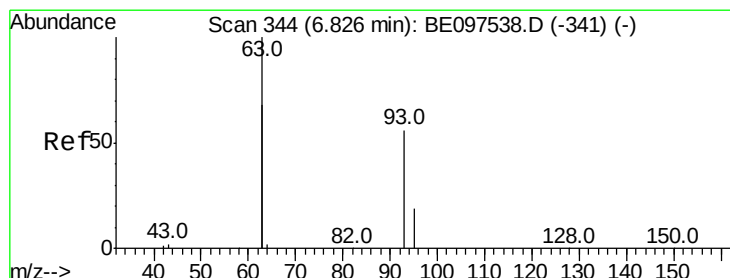
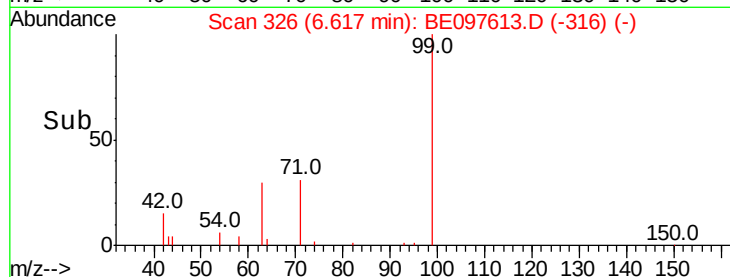
400

200

0

6.55 6.60 6.65 6.70

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.333 ng

RT: 6.82 min Scan# 344

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

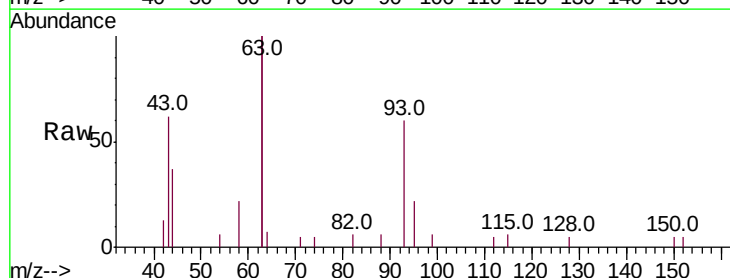
Tgt Ion: 93 Resp: 1267

Ion Ratio Lower Upper

93 100

63 301.5 275.3 412.9

95 33.5 25.2 37.8



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

2500

2000

1500

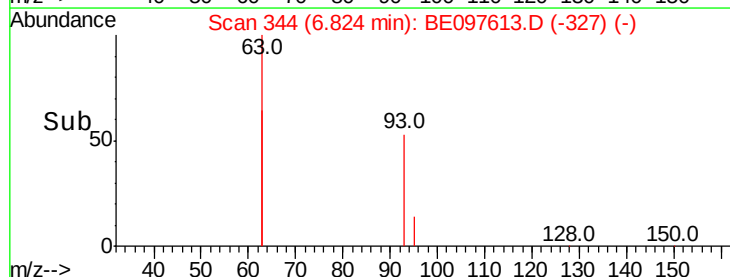
1000

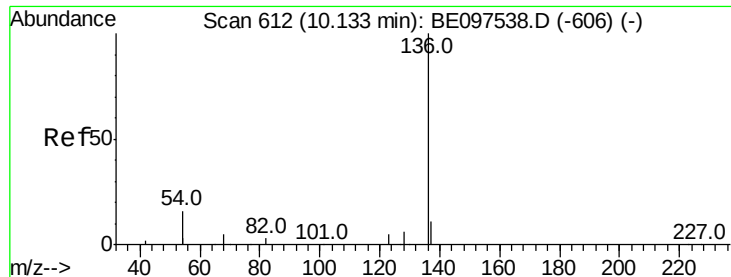
500

0

6.80 6.82 6.84 6.86 6.88 6.90 6.92 6.94 6.96 6.98 7.00

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.12 min Scan# 611

Delta R.T. -0.01 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 4578

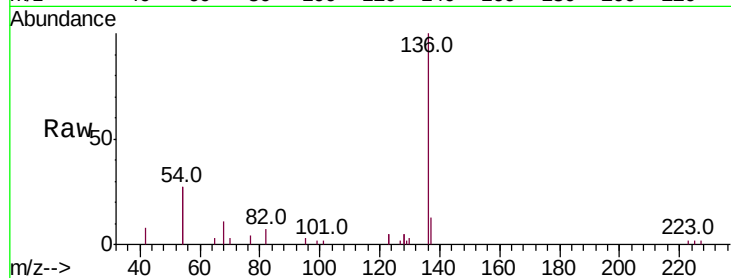
Ion Ratio Lower Upper

136 100

137 13.2 9.5 14.3

54 53.5 29.1 43.7#

68 10.8 6.2 9.2#



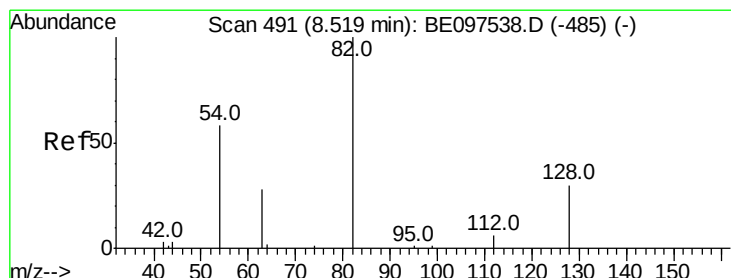
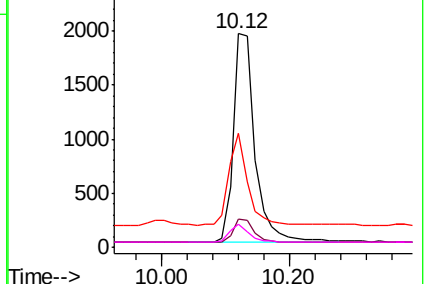
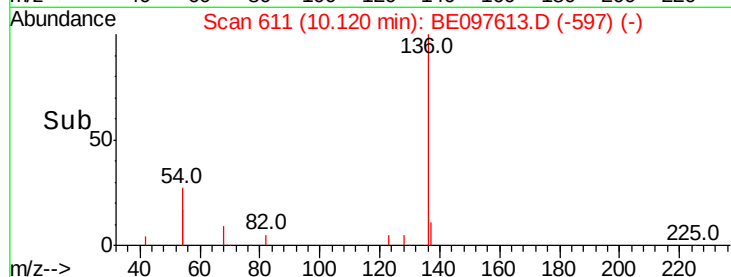
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.376 ng

RT: 8.53 min Scan# 492

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

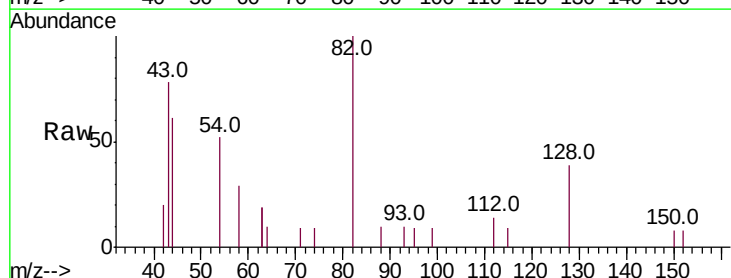
Tgt Ion: 82 Resp: 1330

Ion Ratio Lower Upper

82 100

128 38.8 24.0 36.0#

54 52.4 40.0 60.0

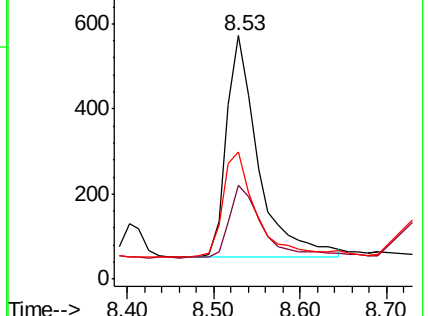
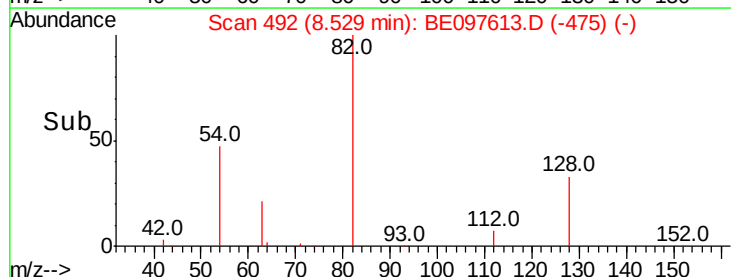


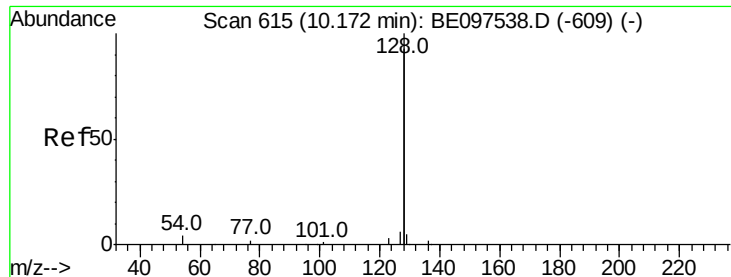
Abundance

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: 0.411 ng

RT: 10.17 min Scan# 615

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampled :

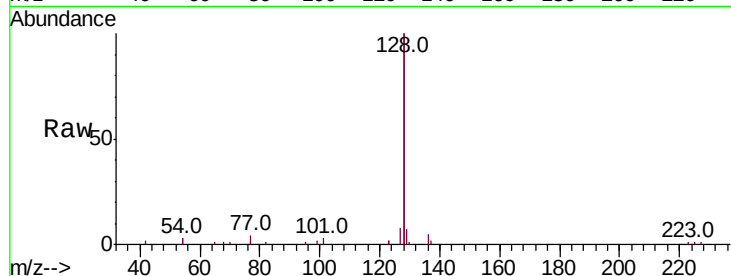
Tot Ion:128 Resp: 16947

Ion Ratio Lower Upper

128 100

129 3.4 2.6 3.8

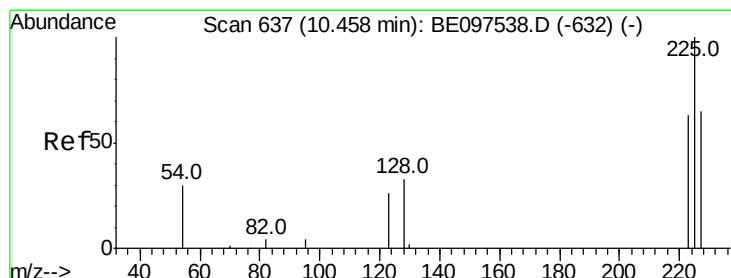
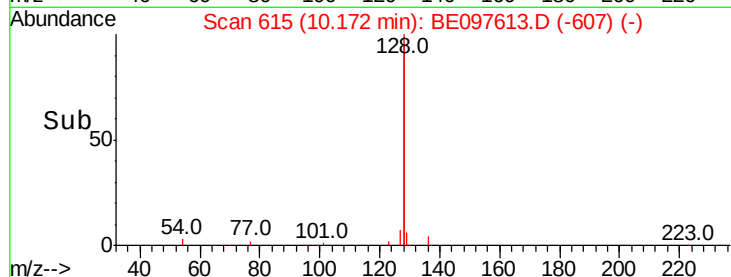
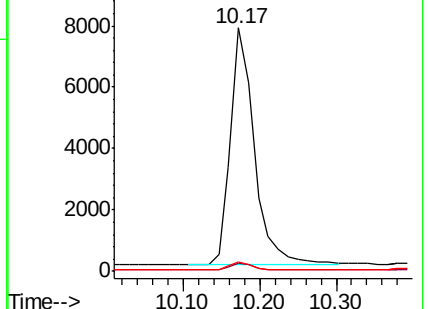
127 3.9 2.8 4.2



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: 0.375 ng

RT: 10.46 min Scan# 637

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

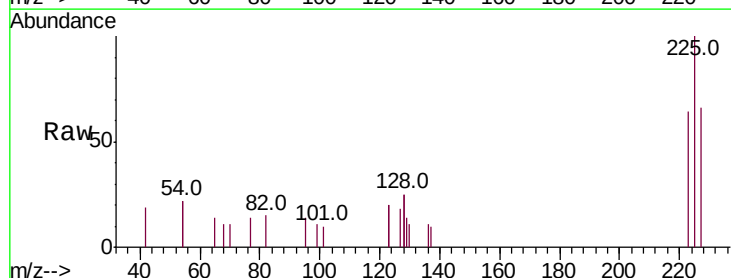
Tgt Ion:225 Resp: 712

Ion Ratio Lower Upper

225 100

223 62.1 53.0 79.6

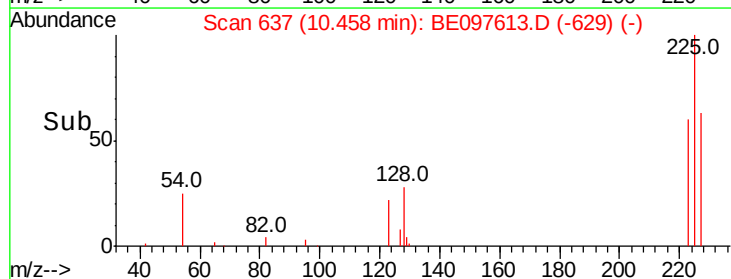
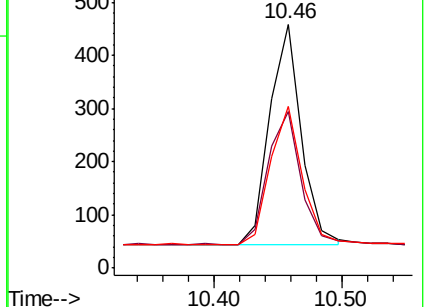
227 62.2 51.4 77.2

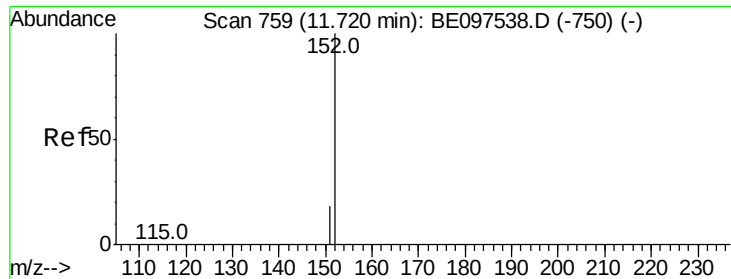


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

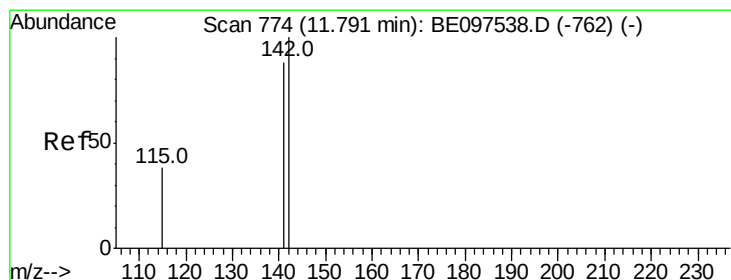
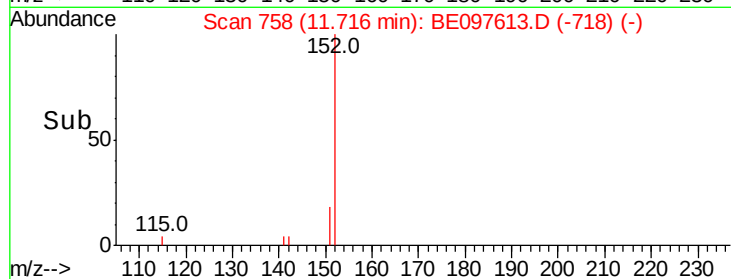
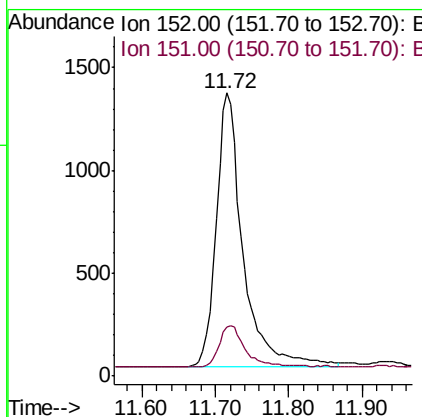
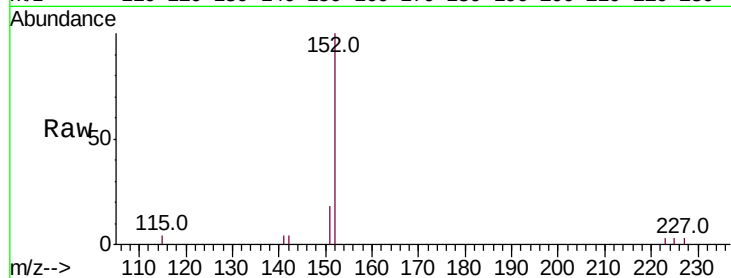




#11  
2-Methylnaphthalene-d10  
Concen: 0.530 ng  
RT: 11.72 min Scan# 758  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

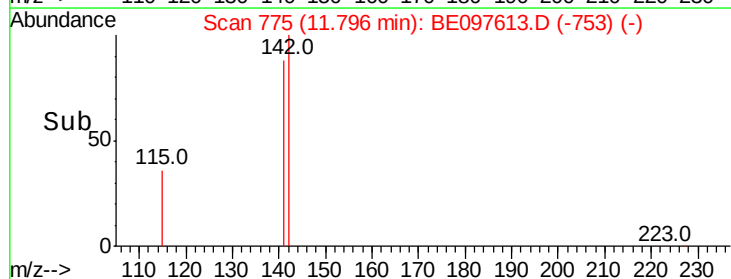
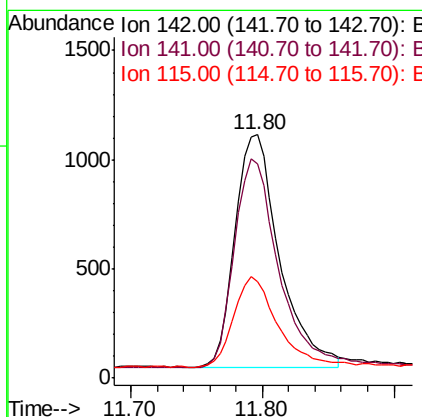
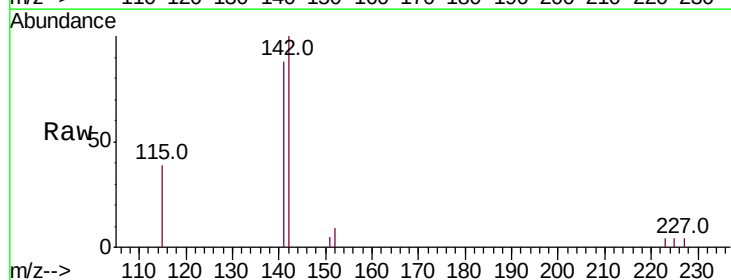
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 3342  
Ion Ratio Lower Upper  
152 100  
151 14.2 15.4 23.0#

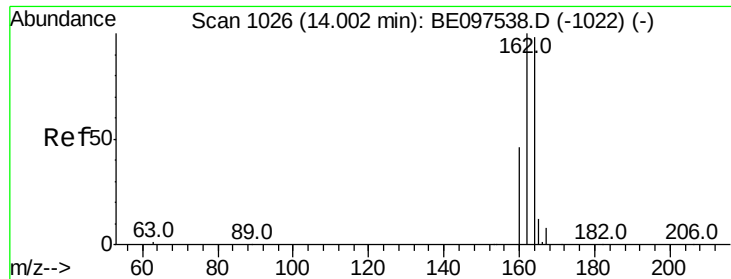


#12  
2-Methylnaphthalene  
Concen: 0.390 ng  
RT: 11.80 min Scan# 775  
Delta R.T. 0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Tgt Ion:142 Resp: 2507  
Ion Ratio Lower Upper  
142 100  
141 88.1 70.4 105.6  
115 39.4 31.7 47.5



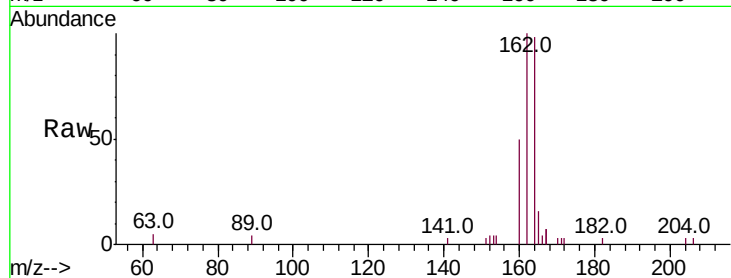




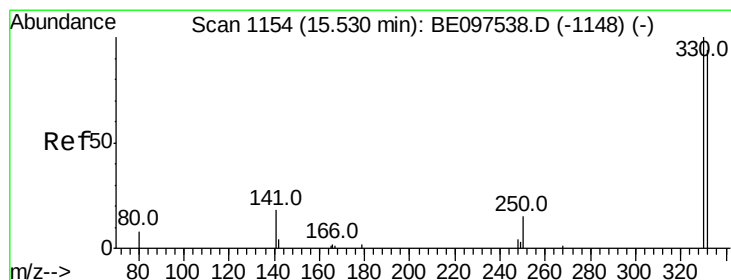
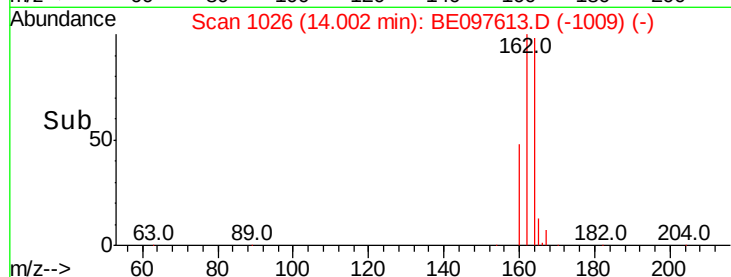
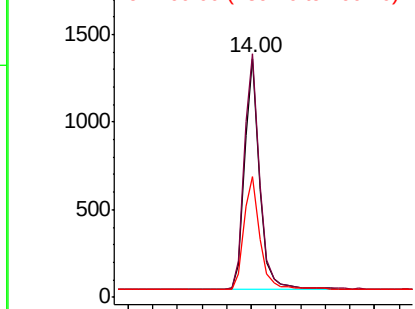
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.00 min Scan# 1026  
 Delta R.T. -0.00 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:164 Resp: 2245  
 Ion Ratio Lower Upper  
 164 100  
 162 101.9 83.1 124.7  
 160 50.8 37.1 55.7

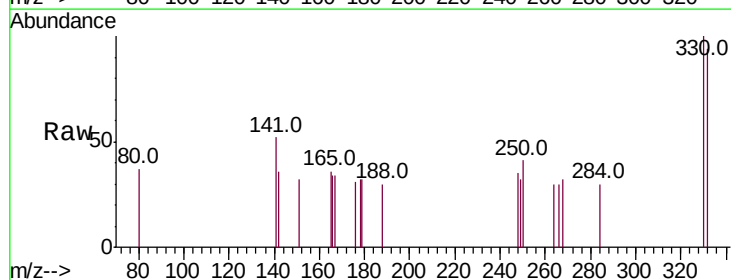


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

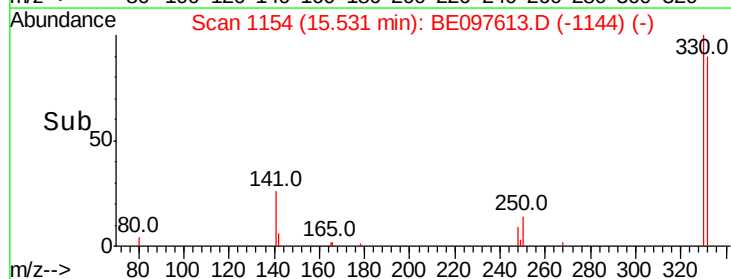
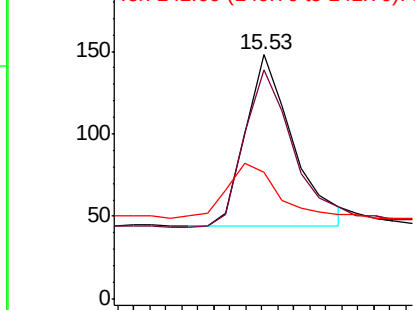


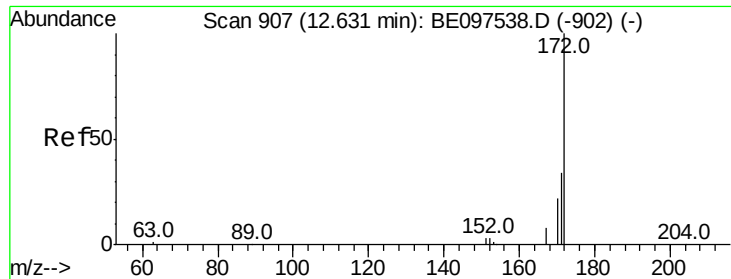
#14  
 2,4,6-Tribromophenol  
 Concen: 0.293 ng  
 RT: 15.53 min Scan# 1154  
 Delta R.T. 0.01 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

Tgt Ion:330 Resp: 215  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 152.7 229.1#  
 141 34.0 33.7 50.5



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

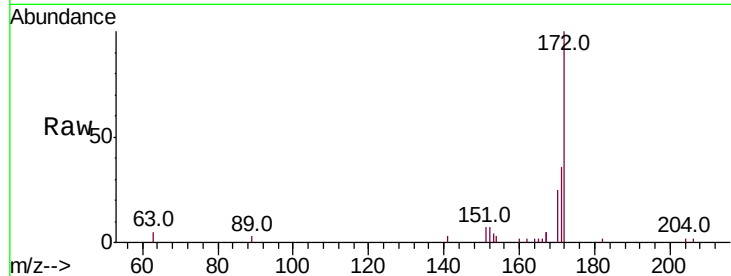




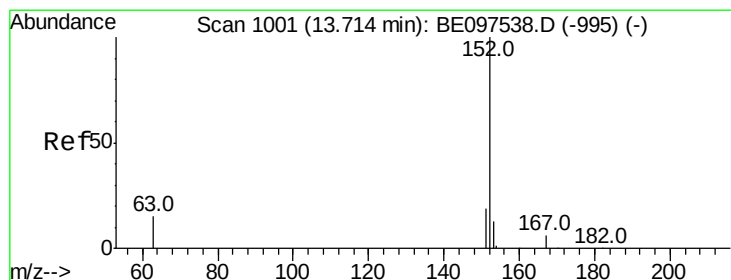
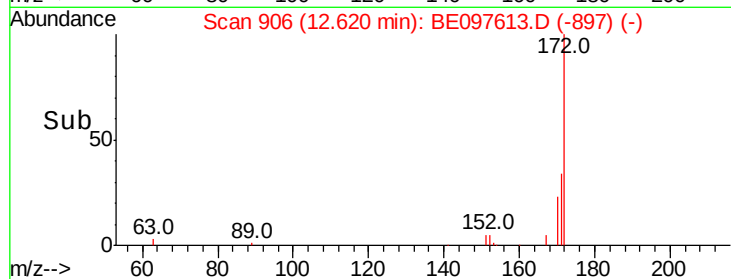
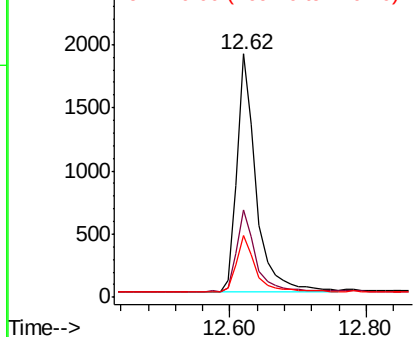
#15  
2-Fluorobiphenyl  
Concen: 0.465 ng  
RT: 12.62 min Scan# 906  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Instrument :  
BNA\_E  
ClientSampled :

Tot Ion:172 Resp: 3692  
Ion Ratio Lower Upper  
172 100  
171 36.0 29.9 44.9  
170 25.3 21.8 32.8

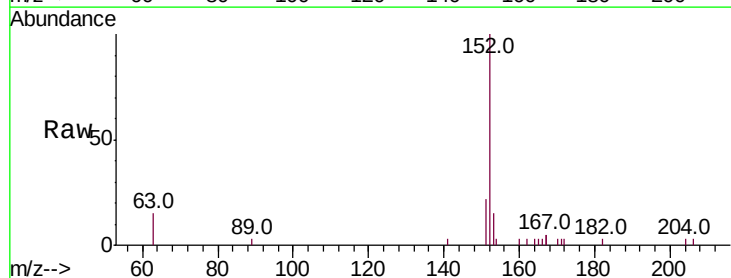


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

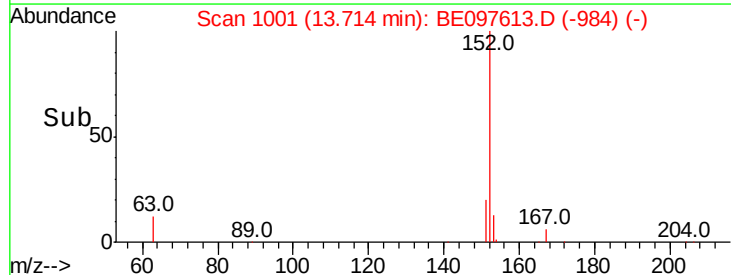
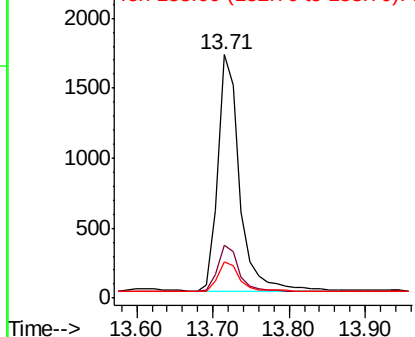


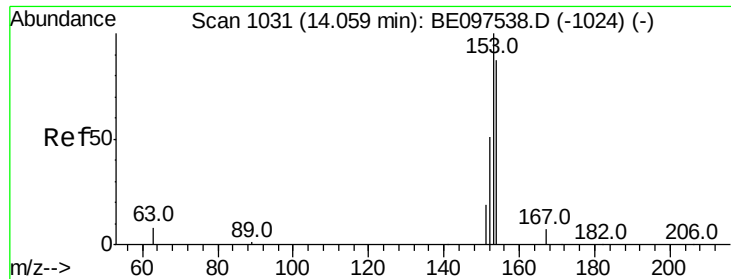
#16  
Acenaphthylene  
Concen: 0.381 ng  
RT: 13.71 min Scan# 1001  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Tgt Ion:152 Resp: 3385  
Ion Ratio Lower Upper  
152 100  
151 20.2 15.7 23.5  
153 13.4 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E

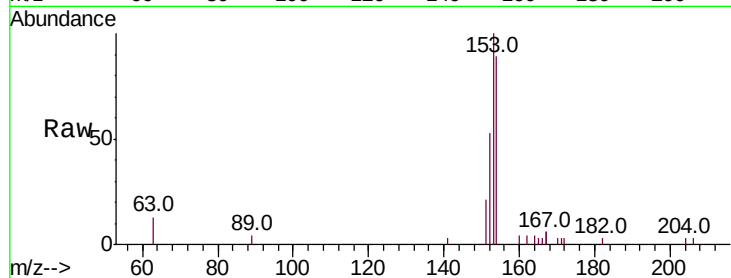




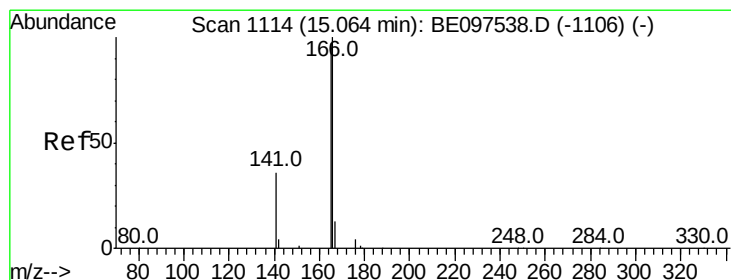
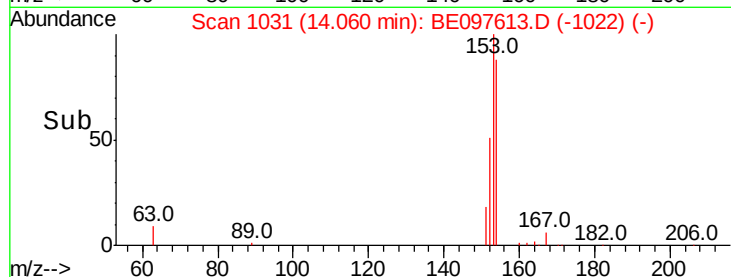
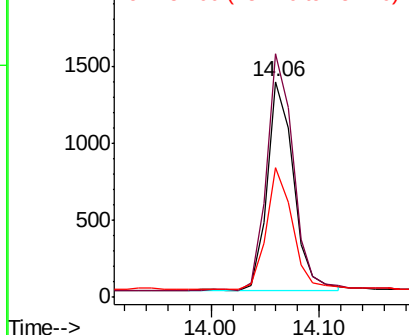
#17  
Acenaphthene  
Concen: 0.386 ng  
RT: 14.06 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:154 Resp: 2298  
Ion Ratio Lower Upper  
154 100  
153 114.9 89.2 133.8  
152 58.7 42.0 63.0

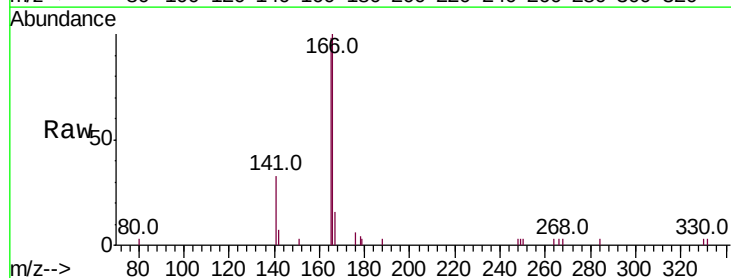


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

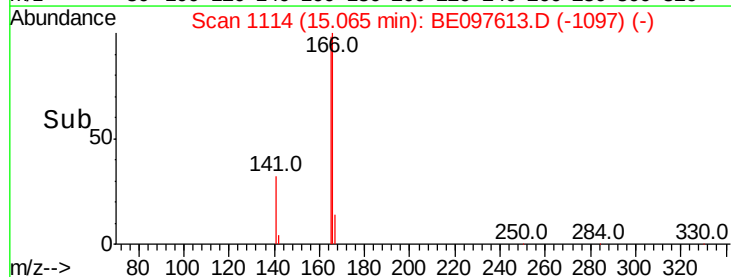
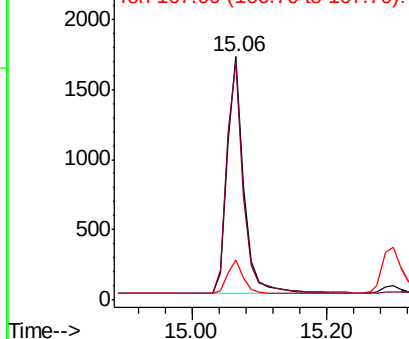


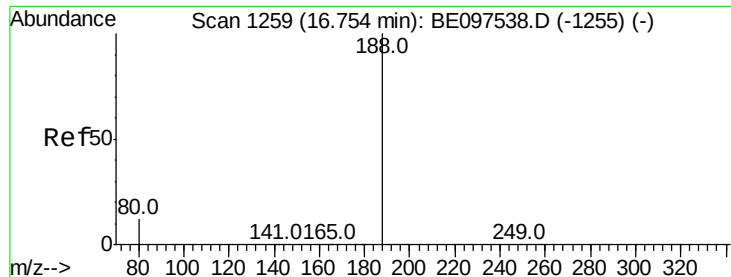
#18  
Fluorene  
Concen: 0.377 ng  
RT: 15.06 min Scan# 1114  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Tgt Ion:166 Resp: 2921  
Ion Ratio Lower Upper  
166 100  
165 98.9 77.8 116.6  
167 13.7 42.4 63.6#



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: 16.75 min Scan# 1259

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

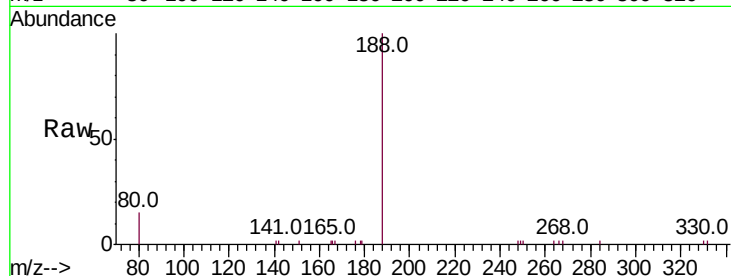
Tot Ion:188 Resp: 5274

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

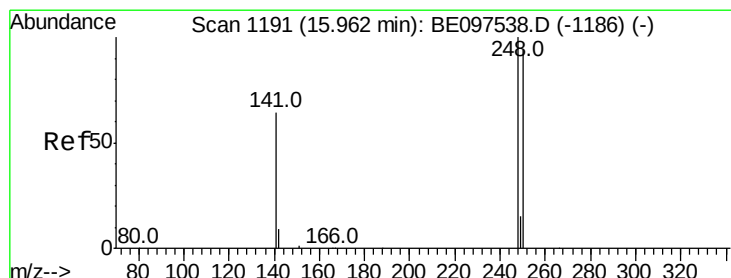
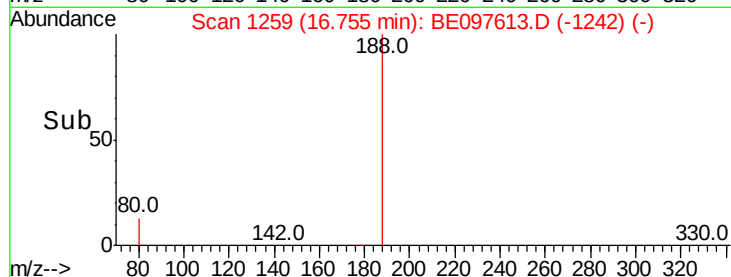
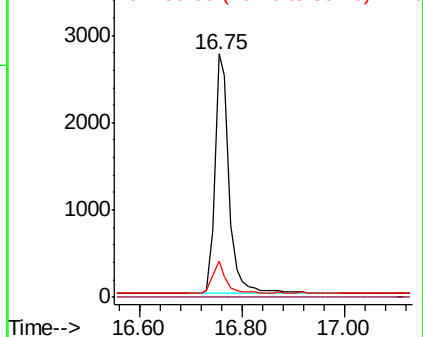
80 15.1 3.6 5.4#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.379 ng

RT: 15.96 min Scan# 1191

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

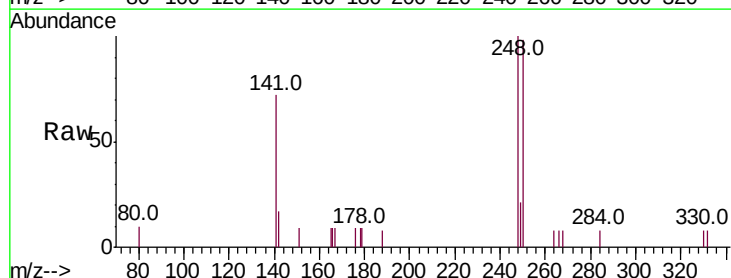
Tgt Ion:248 Resp: 901

Ion Ratio Lower Upper

248 100

250 97.9 62.7 94.1#

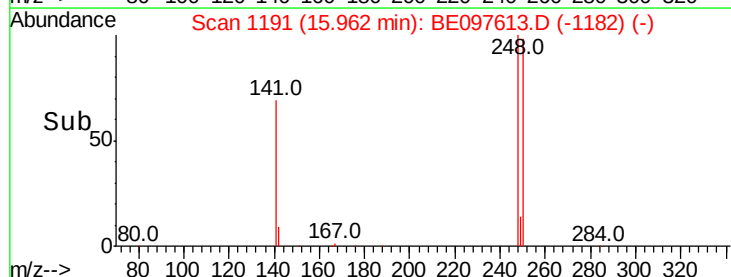
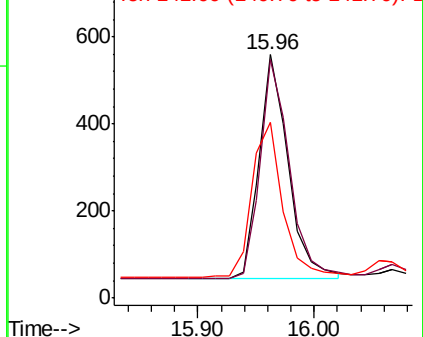
141 72.3 48.2 72.2#

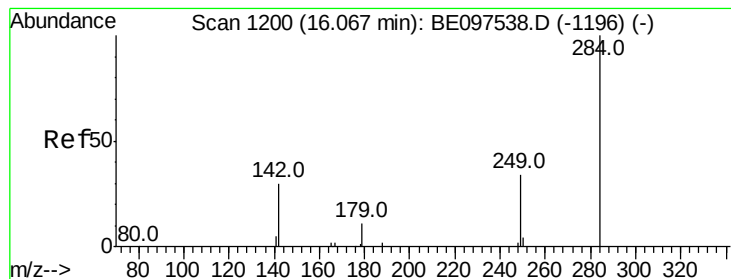


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.410 ng

RT: 16.07 min Scan# 1200

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

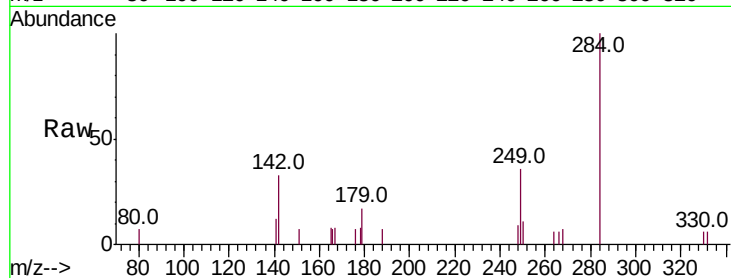
Tot Ion:284 Resp: 1071

Ion Ratio Lower Upper

284 100

142 32.2 22.1 33.1

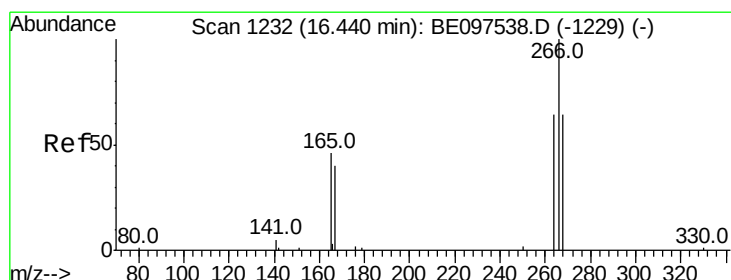
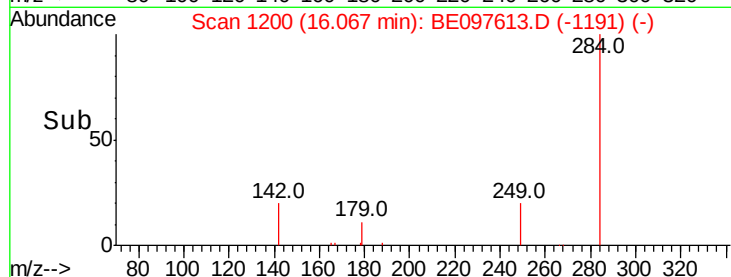
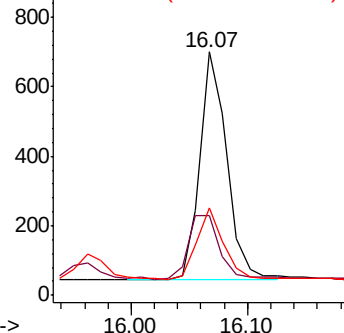
249 30.2 34.8 52.2#



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: 0.426 ng

RT: 16.45 min Scan# 1233

Delta R.T. 0.01 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

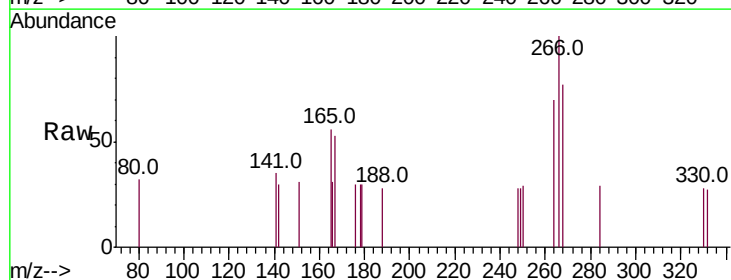
Tgt Ion:266 Resp: 347

Ion Ratio Lower Upper

266 100

264 69.8 72.5 108.7#

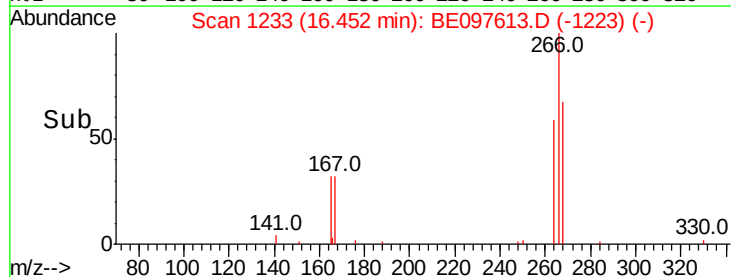
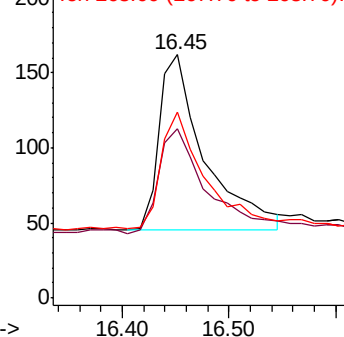
268 76.5 73.8 110.6

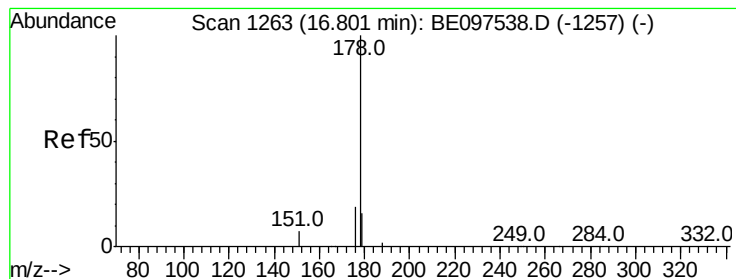


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.393 ng

RT: 16.80 min Scan# 1263

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

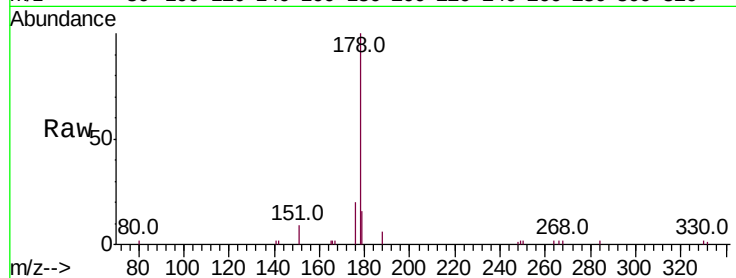
Tot Ion:178 Resp: 4924

Ion Ratio Lower Upper

178 100

176 19.7 15.1 22.7

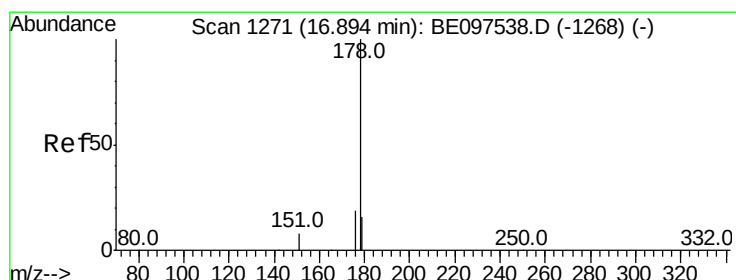
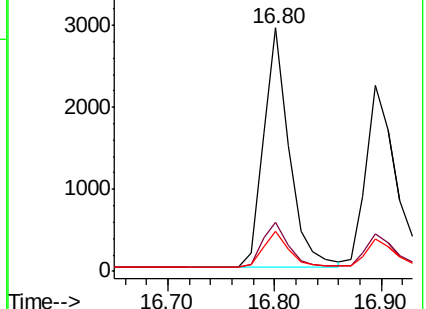
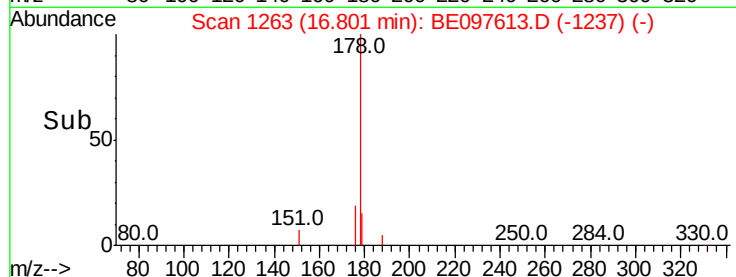
179 15.6 11.8 17.6



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: 0.384 ng

RT: 16.89 min Scan# 1271

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

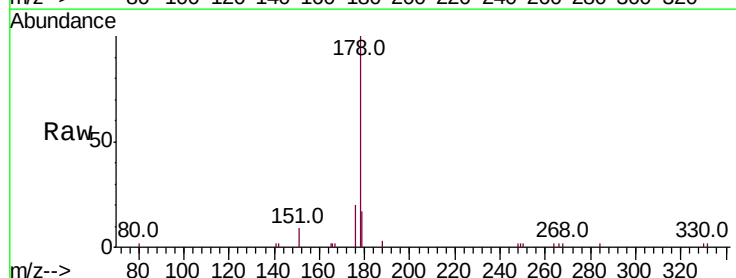
Tgt Ion:178 Resp: 4246

Ion Ratio Lower Upper

178 100

176 18.6 12.8 19.2

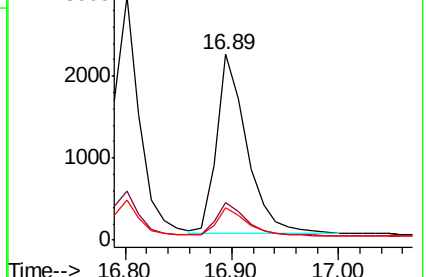
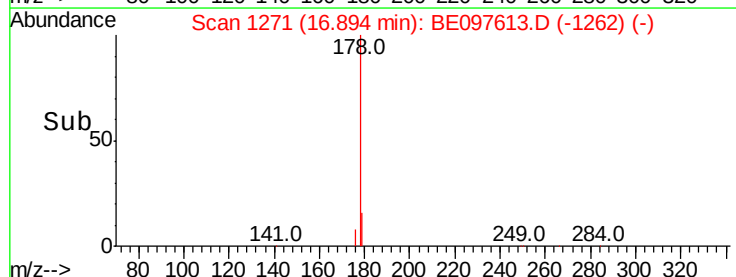
179 15.3 13.0 19.6

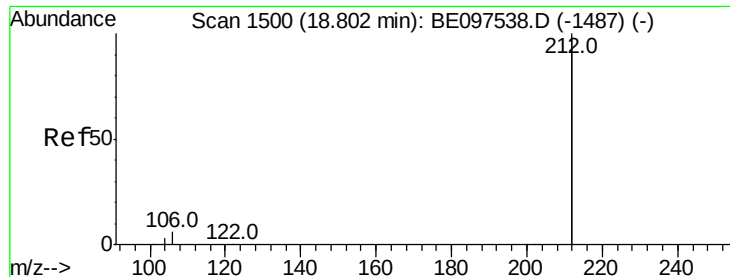


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.375 ng

RT: 18.80 min Scan# 1500

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

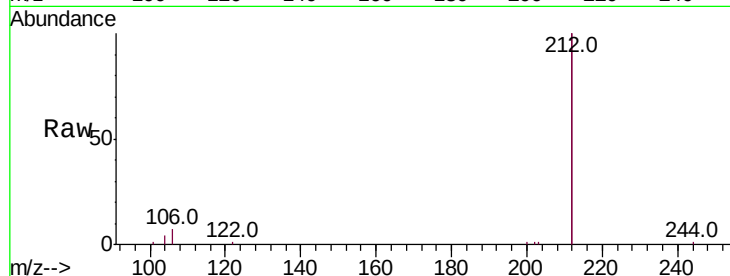
Tot Ion:212 Resp: 25292

Ion Ratio Lower Upper

212 100

106 3.1 2.8 4.2

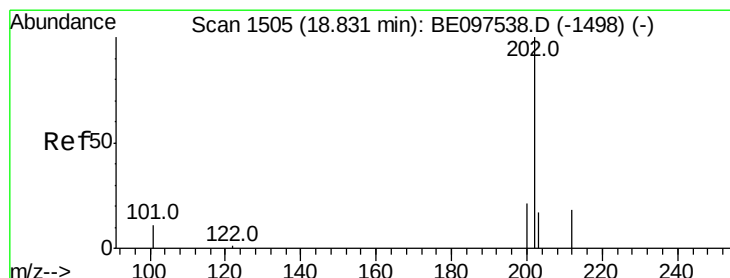
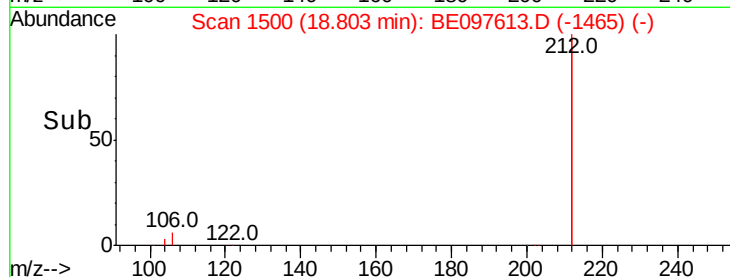
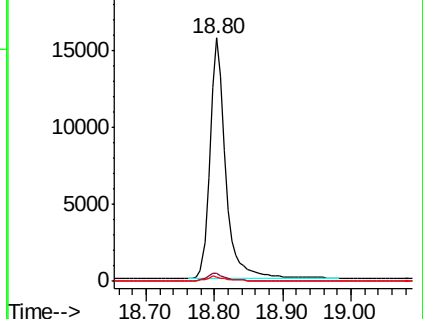
104 1.8 1.6 2.4



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: 0.353 ng

RT: 18.83 min Scan# 1505

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

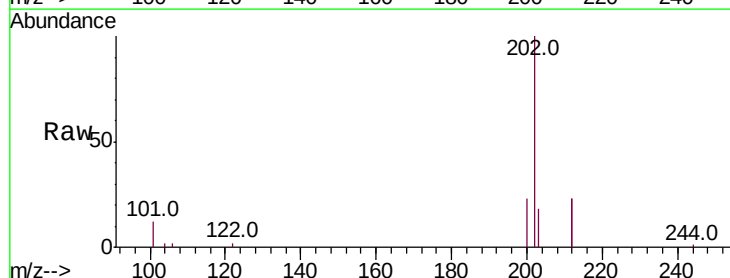
Tgt Ion:202 Resp: 6129

Ion Ratio Lower Upper

202 100

101 10.9 9.8 14.8

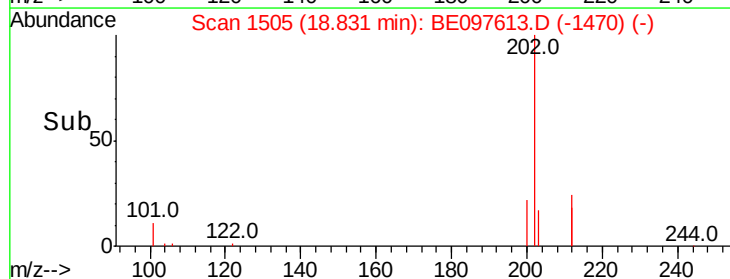
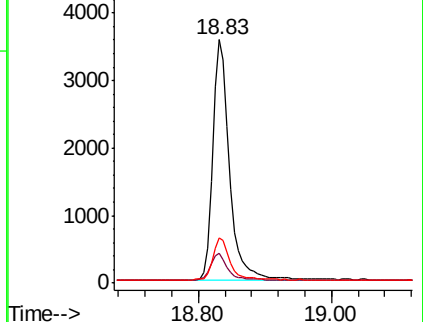
203 17.3 13.7 20.5

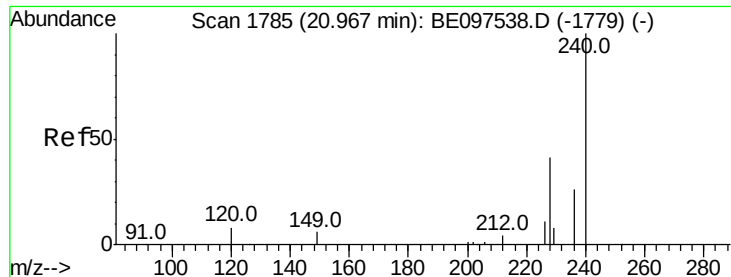


Abundance Ion 202.00 (201.70 to 202.70): E

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: 20.97 min Scan# 1785

Delta R.T. 0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

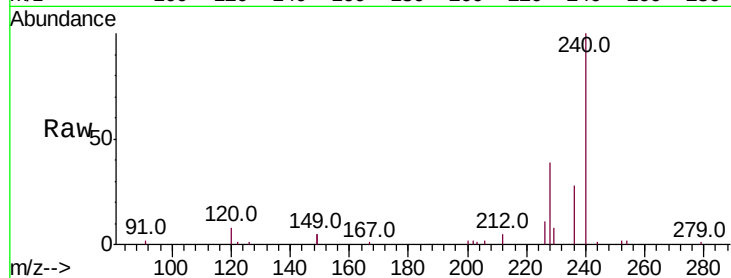
Tot Ion:240 Resp: 7262

Ion Ratio Lower Upper

240 100

120 7.7 5.5 8.3

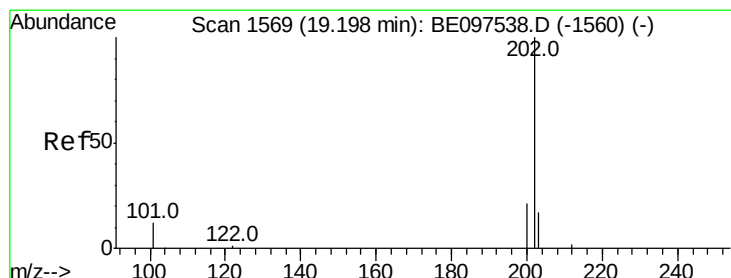
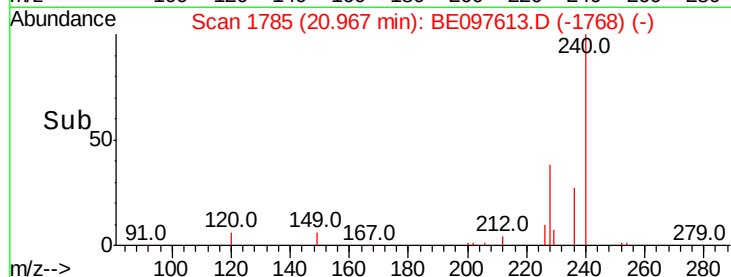
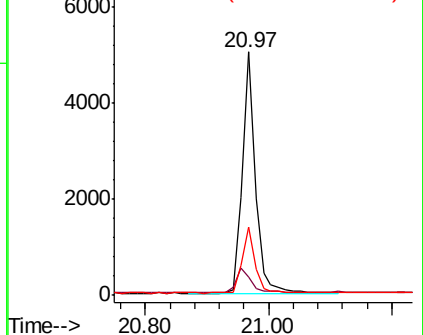
236 28.0 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.377 ng

RT: 19.20 min Scan# 1569

Delta R.T. -0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

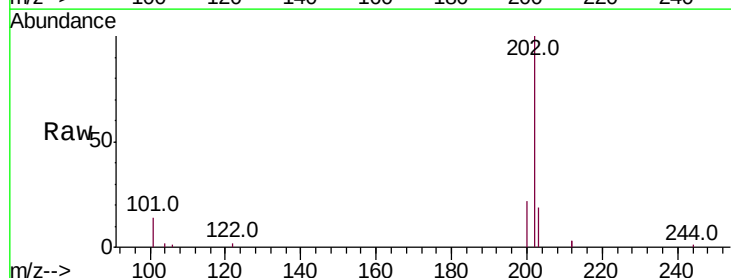
Tgt Ion:202 Resp: 6229

Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

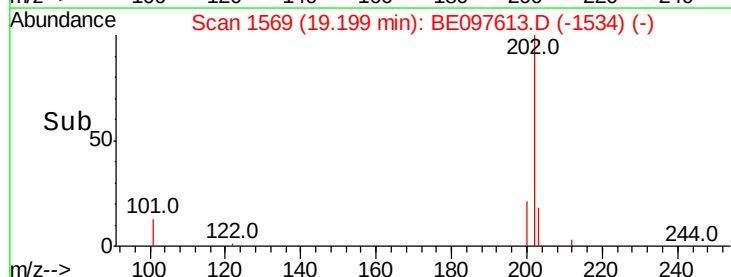
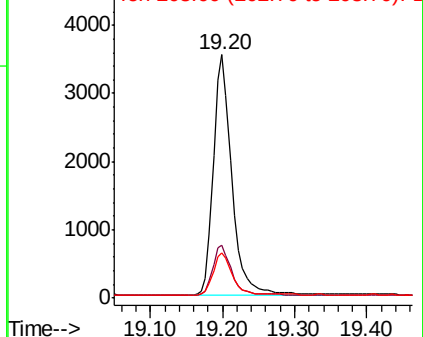
203 18.0 13.8 20.8



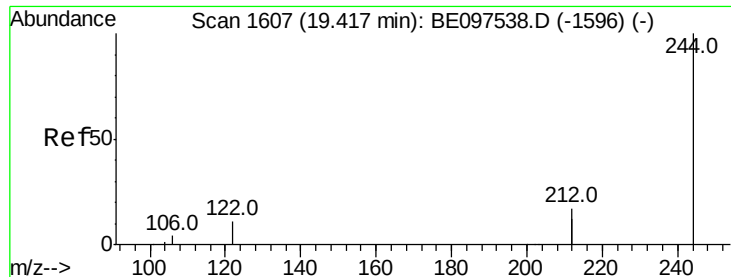
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



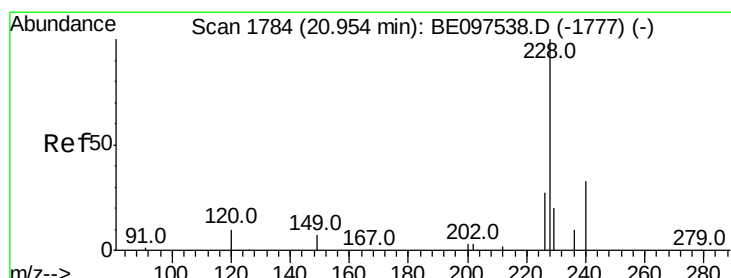
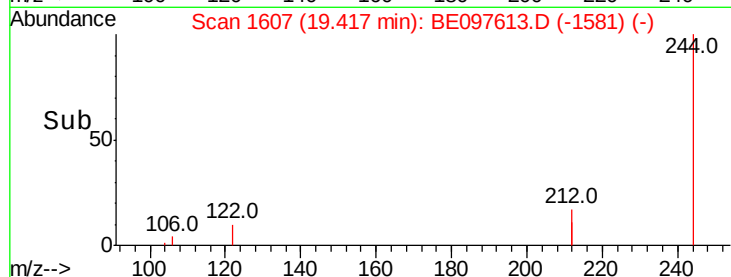
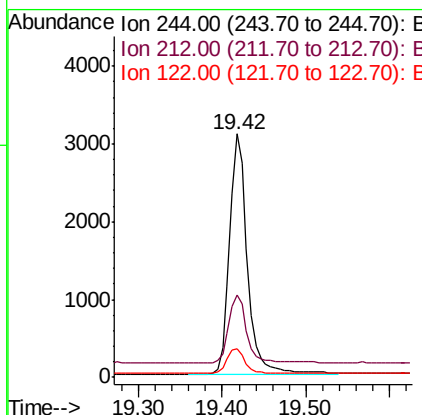
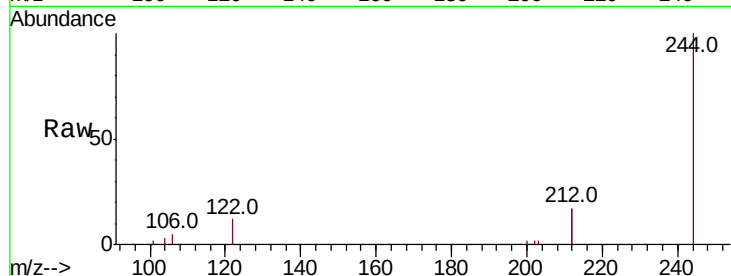




#29  
 Terphenyl-d14  
 Concen: 0.342 ng  
 RT: 19.42 min Scan# 1607  
 Delta R.T. -0.00 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

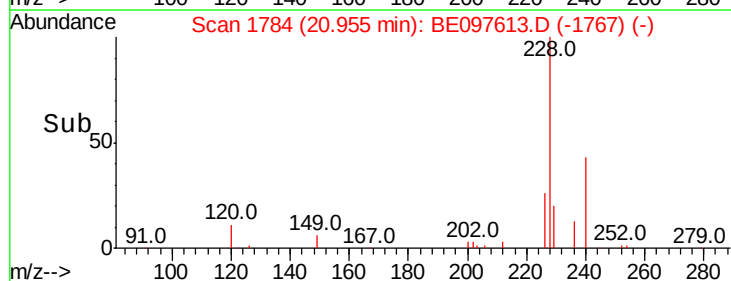
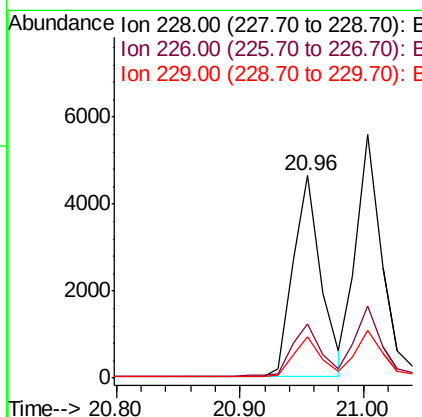
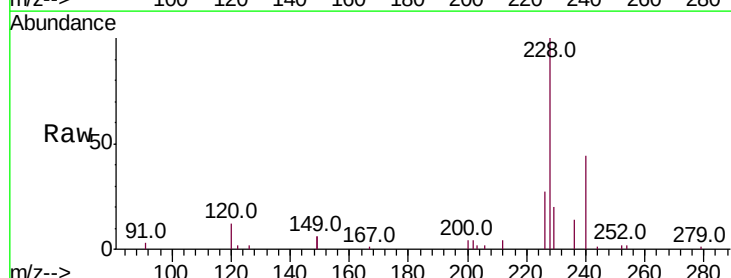
Instrument :  
 BNA\_E  
 ClientSampleId :

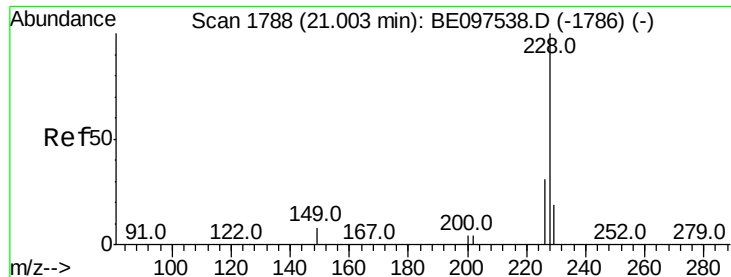
Tot Ion:244 Resp: 4551  
 Ion Ratio Lower Upper  
 244 100  
 212 33.9 25.4 38.0  
 122 11.8 8.1 12.1



#30  
 Benzo(a)anthracene  
 Concen: 0.395 ng  
 RT: 20.96 min Scan# 1784  
 Delta R.T. 0.00 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

Tgt Ion:228 Resp: 7214  
 Ion Ratio Lower Upper  
 228 100  
 226 27.0 24.0 36.0  
 229 20.5 16.0 24.0





#31

Chrysene

Concen: 0.411 ng

RT: 21.00 min Scan# 1788

Delta R.T. 0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

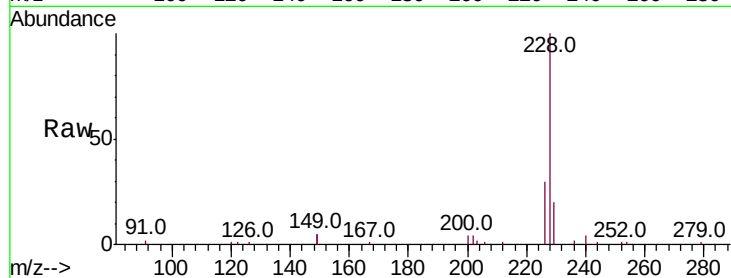
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:228 Resp: 8067

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.8  | 24.0  | 36.0  |
| 229 | 19.8  | 16.0  | 24.0  |

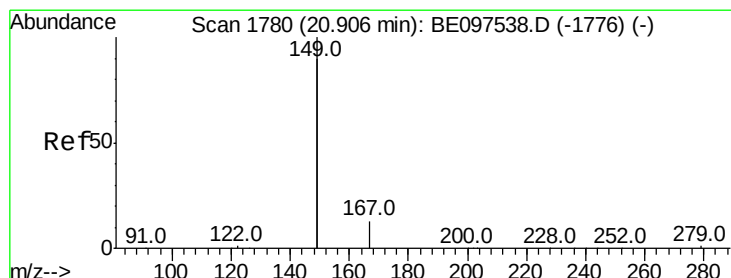
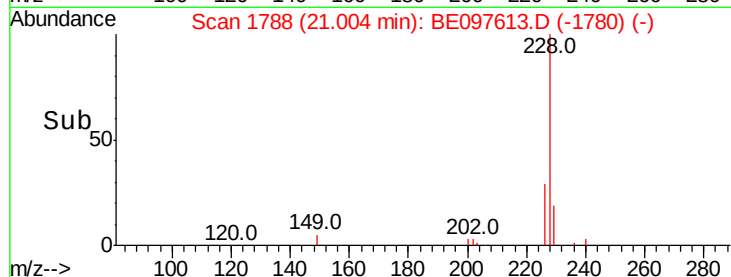
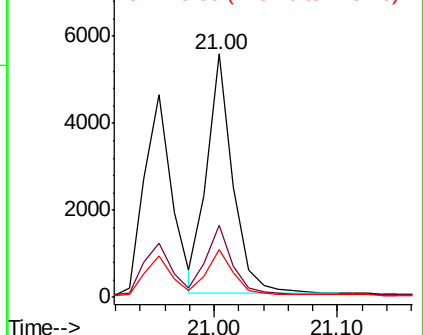


Abundance

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: 0.274 ng

RT: 20.89 min Scan# 1779

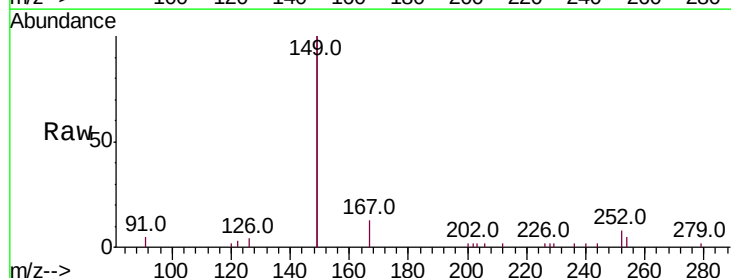
Delta R.T. -0.01 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Tgt Ion:149 Resp: 8088

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.4   | 5.4   | 8.0   |
| 279 | 1.1   | 0.7   | 1.1#  |

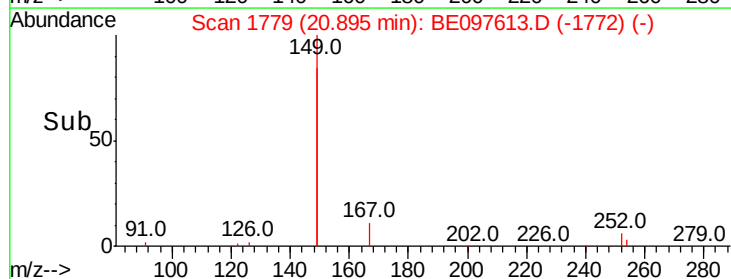
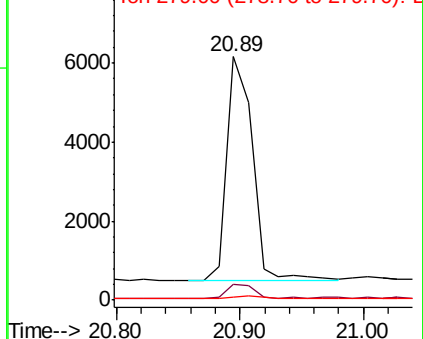


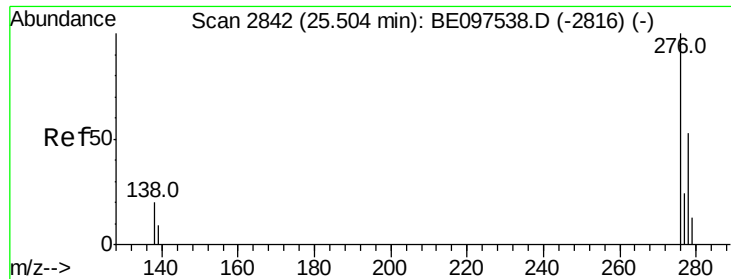
Abundance

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

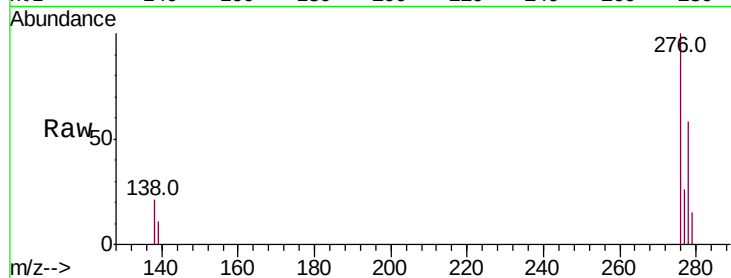




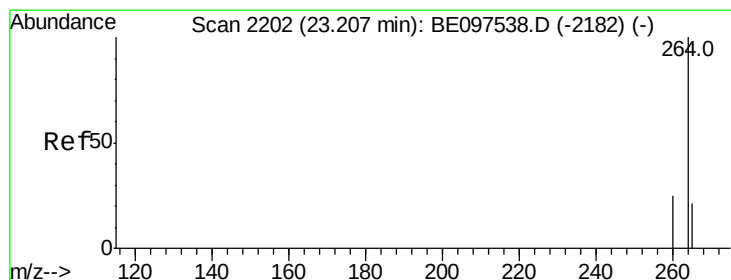
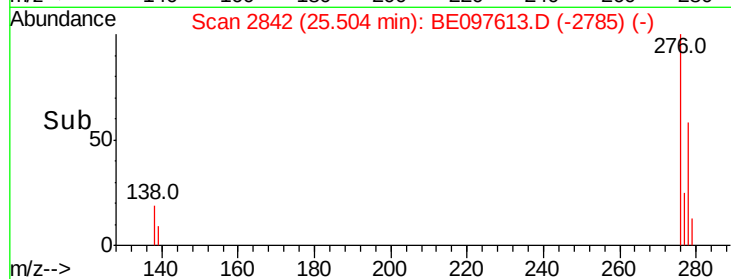
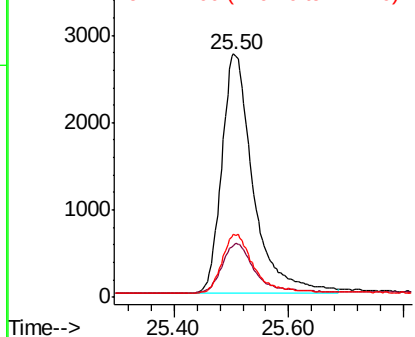
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.442 ng  
 RT: 25.50 min Scan# 2842  
 Delta R.T. 0.00 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:276 Resp: 10438  
 Ion Ratio Lower Upper  
 276 100  
 138 21.1 22.5 33.7#  
 277 24.8 19.9 29.9

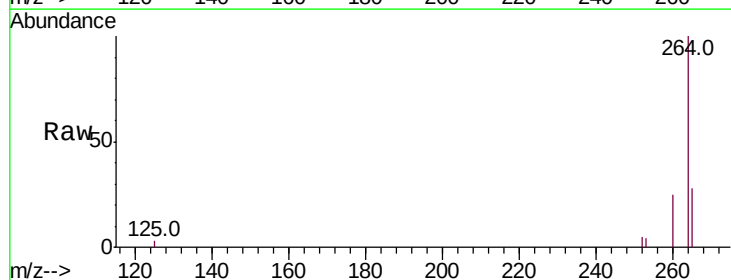


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

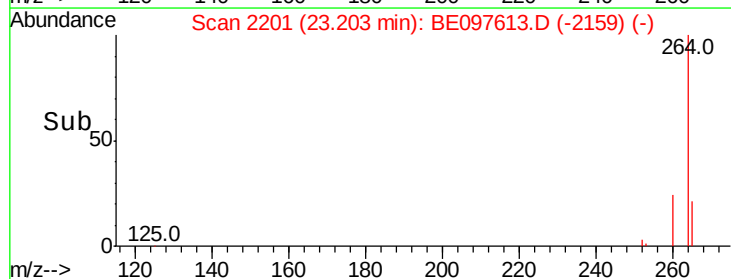
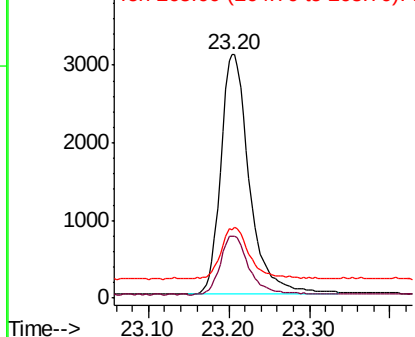


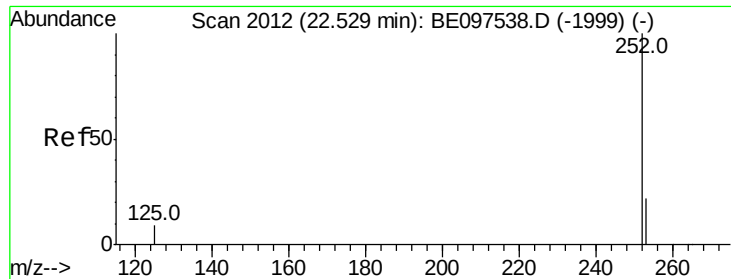
#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.20 min Scan# 2201  
 Delta R.T. -0.00 min  
 Lab File: BE097613.D  
 Acq: 21 Sep 2018 16:02

Tgt Ion:264 Resp: 7597  
 Ion Ratio Lower Upper  
 264 100  
 260 25.2 20.5 30.7  
 265 28.2 22.8 34.2



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

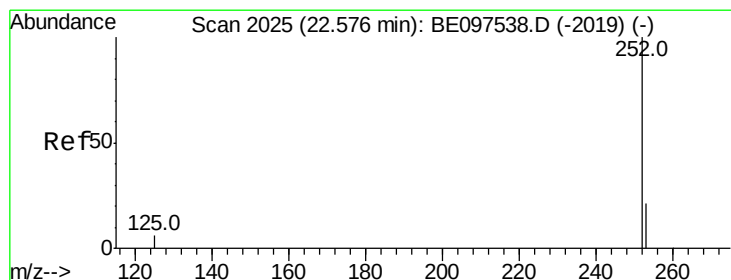
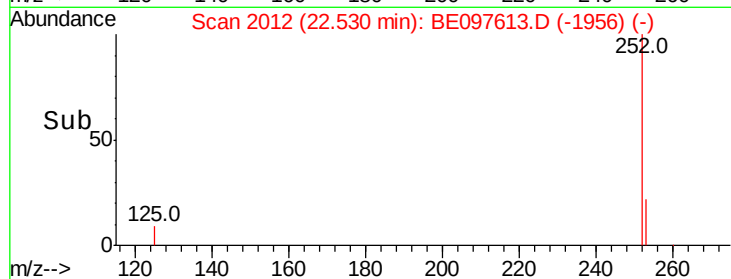
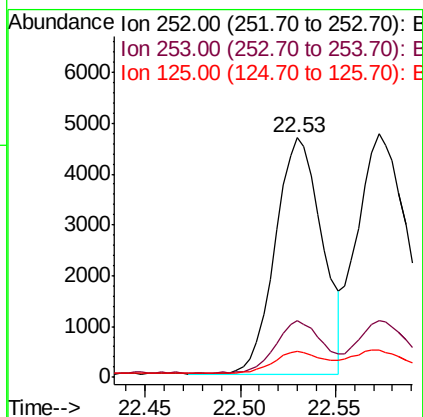
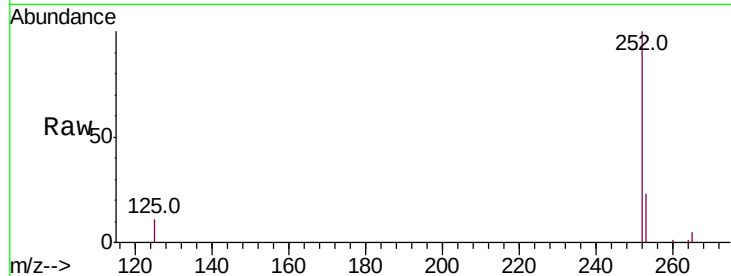




#35  
Benzo(b)fluoranthene  
Concen: 0.407 ng  
RT: 22.53 min Scan# 2012  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

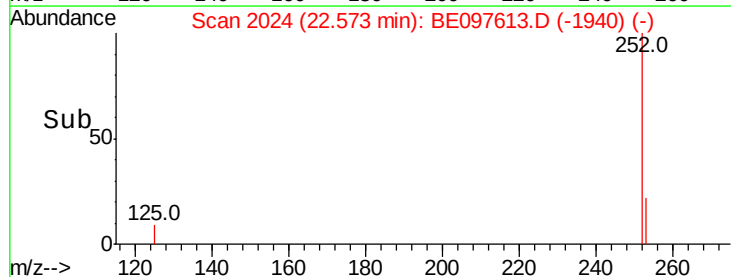
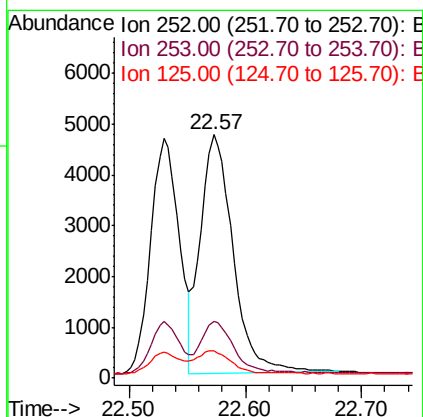
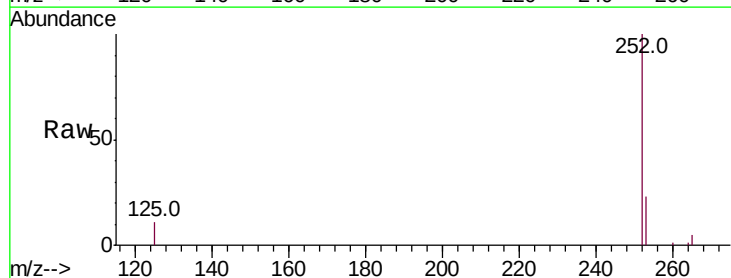
Instrument :  
BNA\_E  
ClientSampleId :

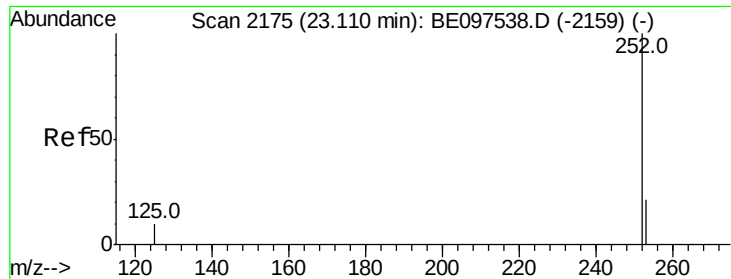
Tot Ion:252 Resp: 7931  
Ion Ratio Lower Upper  
252 100  
253 23.5 20.0 30.0  
125 10.7 16.0 24.0#



#36  
Benzo(k)fluoranthene  
Concen: 0.412 ng  
RT: 22.57 min Scan# 2024  
Delta R.T. -0.00 min  
Lab File: BE097613.D  
Acq: 21 Sep 2018 16:02

Tgt Ion:252 Resp: 9161  
Ion Ratio Lower Upper  
252 100  
253 23.3 16.0 24.0  
125 11.0 8.0 12.0





#37

Benzo(a)pyrene

Concen: 0.425 ng

RT: 23.11 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

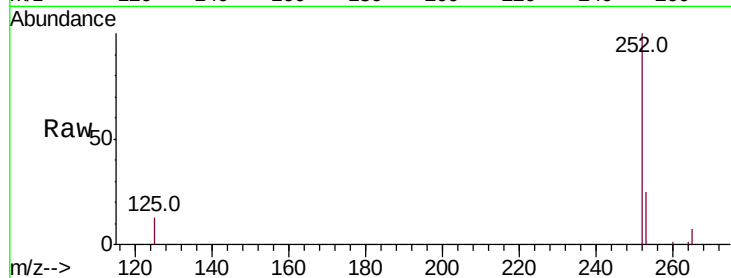
Tot Ion:252 Resp: 8053

Ion Ratio Lower Upper

252 100

253 25.2 16.0 24.0#

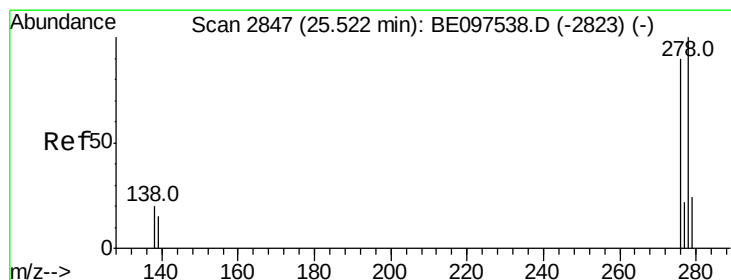
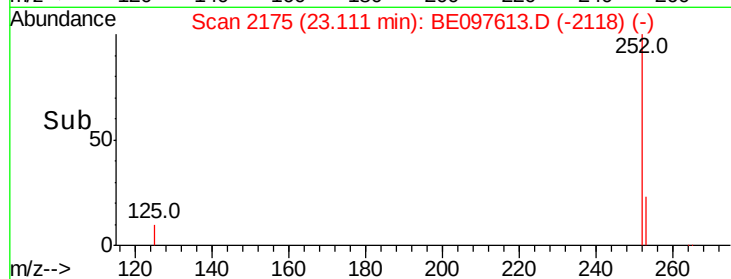
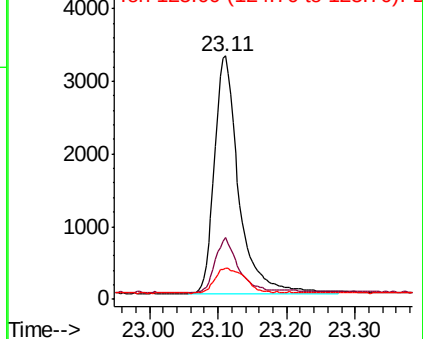
125 12.6 12.0 18.0



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



#38

Dibenzo(a,h)anthracene

Concen: 0.422 ng

RT: 25.52 min Scan# 2847

Delta R.T. 0.00 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

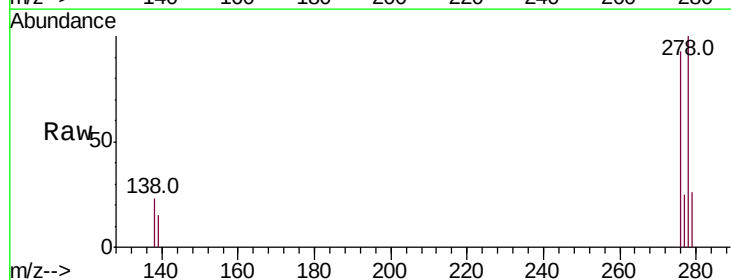
Tgt Ion:278 Resp: 8618

Ion Ratio Lower Upper

278 100

139 15.4 16.0 24.0#

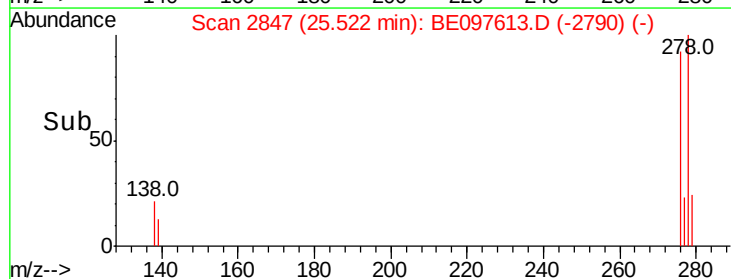
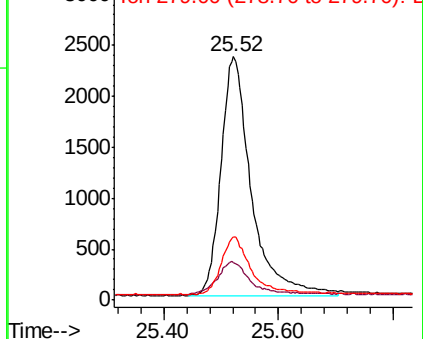
279 26.1 20.0 30.0

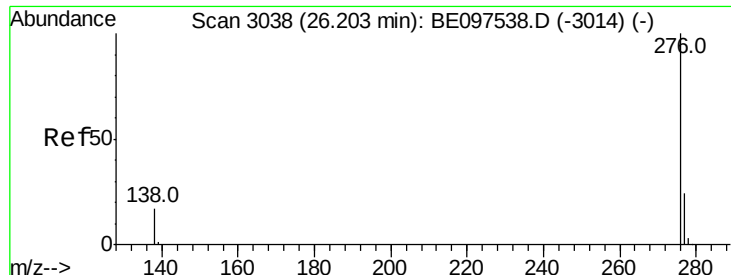


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.433 ng

RT: 26.21 min Scan# 3040

Delta R.T. 0.01 min

Lab File: BE097613.D

Acq: 21 Sep 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

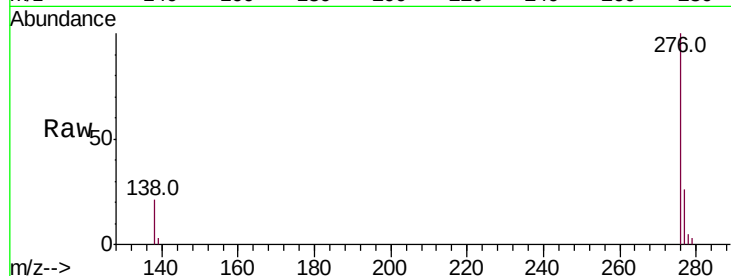
Tot Ion:276 Resp: 8603

Ion Ratio Lower Upper

276 100

277 25.6 16.0 24.0#

138 20.7 20.0 30.0



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

