

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE082018\  
 Data File : BE097340.D  
 Acq On : 20 Aug 2018 20:04  
 Operator : SJ/JU  
 Sample : PB112113BL  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Aug 21 05:05:50 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE082018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 20 18:32:10 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.39  | 152  | 936      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.15 | 136  | 3910     | 0.40 | ng    | 0.01     |
| 13) Acenaphthene-d10      | 14.03 | 164  | 1954     | 0.40 | ng    | 0.01     |
| 19) Phenanthrene-d10      | 16.78 | 188  | 5783     | 0.40 | ng    | 0.01     |
| 27) Chrysene-d12          | 20.98 | 240  | 4638     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.23 | 264  | 3715     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.06  | 112 | 1082  | 0.50 | ng | 0.01 |
| 5) Phenol-d6                | 6.61  | 99  | 1079  | 0.34 | ng | 0.01 |
| 8) Nitrobenzene-d5          | 8.53  | 82  | 818   | 0.49 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.75 | 152 | 2404  | 0.45 | ng | 0.03 |
| 14) 2,4,6-Tribromophenol    | 15.55 | 330 | 89    | 0.30 | ng | 0.02 |
| 15) 2-Fluorobiphenyl        | 12.66 | 172 | 3415  | 0.43 | ng | 0.02 |
| 25) Fluoranthene-d10        | 18.82 | 212 | 26202 | 0.51 | ng | 0.01 |
| 29) Terphenyl-d14           | 19.44 | 244 | 4123  | 0.44 | ng | 0.00 |

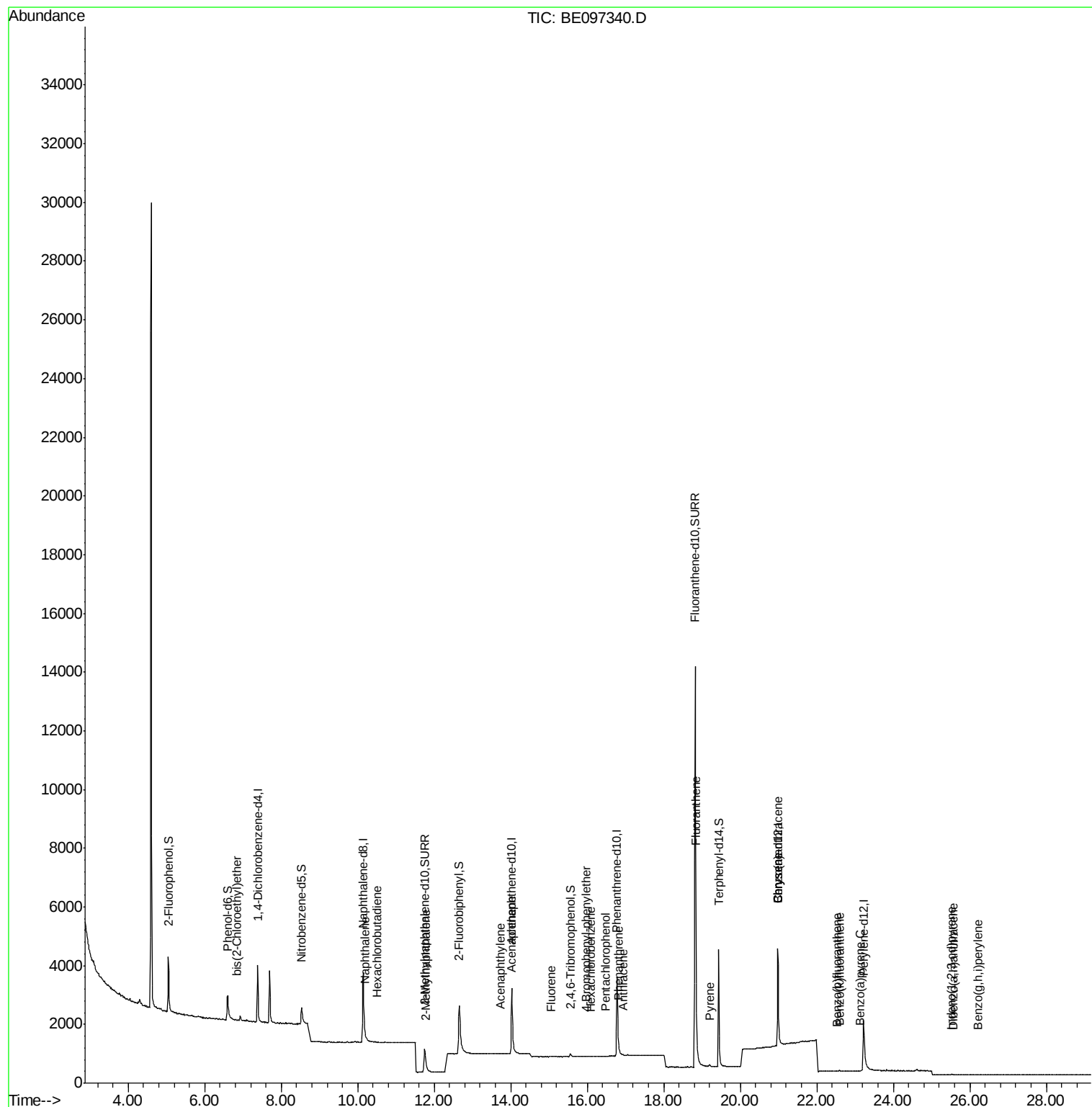
|                                |       |     |    |           |    |      |
|--------------------------------|-------|-----|----|-----------|----|------|
| Target Compounds               |       |     |    | Qvalue    |    |      |
| 6) bis(2-Chloroethyl)ether     | 6.85  | 93  | 3  | 0.001     | ng | # 1  |
| 9) Naphthalene                 | 10.19 | 128 | 69 | 0.002     | ng | # 42 |
| 10) Hexachlorobutadiene        | 10.51 | 225 | 8  | 0.005     | ng | # 25 |
| 12) 2-Methylnaphthalene        | 11.80 | 142 | 2  | 0.000     | ng | # 59 |
| 16) Acenaphthylene             | 13.74 | 152 | 3  | 0.000     | ng | # 1  |
| 17) Acenaphthene               | 14.01 | 154 | 5  | 0.001     | ng | # 5  |
| 18) Fluorene                   | 15.05 | 166 | 2  | 0.000     | ng | # 1  |
| 20) 4-Bromophenyl-phenylether  | 15.97 | 248 | 5  | 0.002     | ng | # 61 |
| 21) Hexachlorobenzene          | 16.09 | 284 | 1  | 0.000     | ng | # 1  |
| 22) Pentachlorophenol          | 16.48 | 266 | 10 | 0.045     | ng | # 93 |
| 23) Phenanthrene               | 16.82 | 178 | 15 | 0.001     | ng | # 41 |
| 24) Anthracene                 | 16.93 | 178 | 6  | 0.001     | ng | # 2  |
| 26) Fluoranthene               | 18.84 | 202 | 10 | 0.001     | ng | # 83 |
| 28) Pyrene                     | 19.22 | 202 | 10 | 0.001     | ng | # 69 |
| 30) Benzo(a)anthracene         | 20.98 | 228 | 30 | 0.003     | ng | # 1  |
| 31) Chrysene                   | 20.98 | 228 | 22 | 0.002     | ng | # 1  |
| 32) Bis(2-ethylhexyl)phthalate | 20.92 | 149 | 57 | Below Cal |    | # 75 |
| 33) Indeno(1,2,3-cd)pyrene     | 25.51 | 276 | 4  | 0.000     | ng | # 97 |
| 35) Benzo(b)fluoranthene       | 22.53 | 252 | 1  | 0.000     | ng | # 1  |
| 36) Benzo(k)fluoranthene       | 22.59 | 252 | 7  | 0.001     | ng | # 1  |
| 37) Benzo(a)pyrene             | 23.13 | 252 | 3  | 0.000     | ng | # 1  |
| 38) Dibenzo(a,h)anthracene     | 25.56 | 278 | 1  | 0.000     | ng | # 1  |
| 39) Benzo(g,h,i)perylene       | 26.23 | 276 | 4  | 0.001     | ng | # 1  |

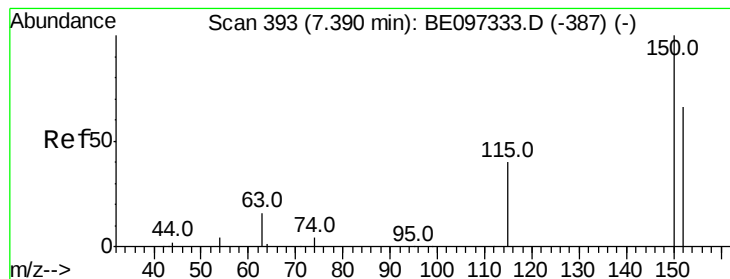
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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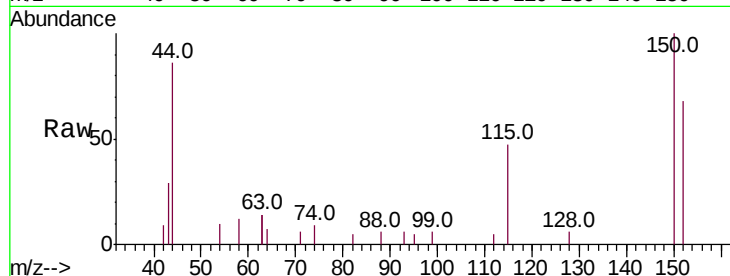


#1

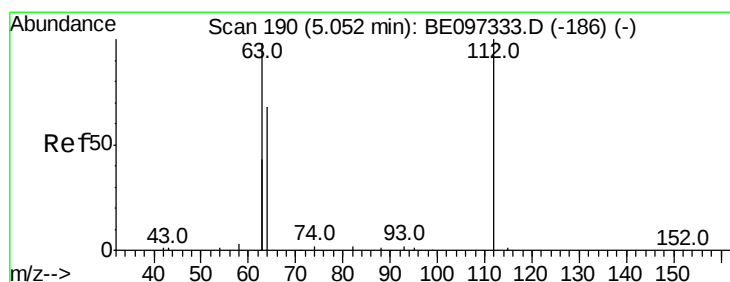
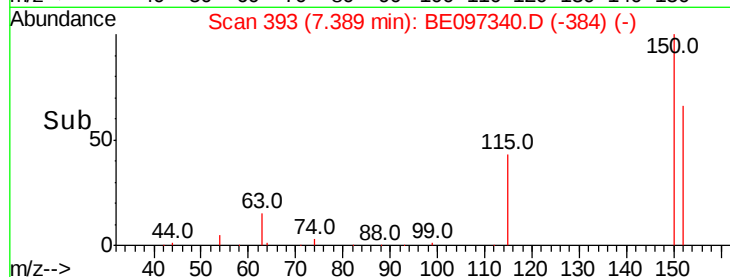
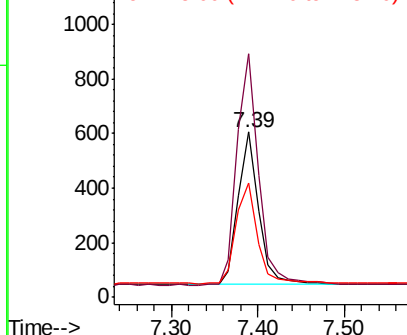
1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.39 min Scan# 393  
 Delta R.T. -0.00 min  
 Lab File: BE097340.D  
 Acq: 20 Aug 2018 20:04

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:152 Resp: 936  
 Ion Ratio Lower Upper  
 152 100  
 150 147.2 117.2 175.8  
 115 68.8 57.0 85.6



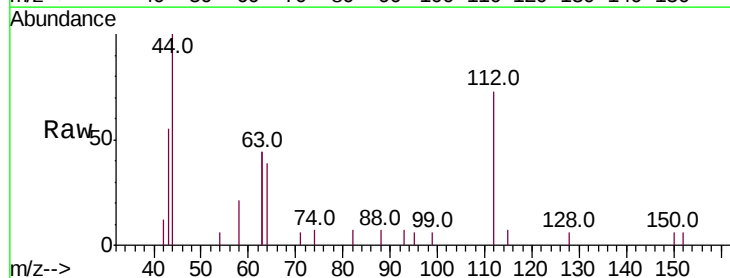
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



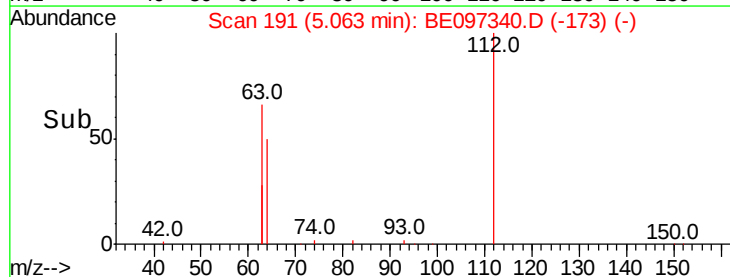
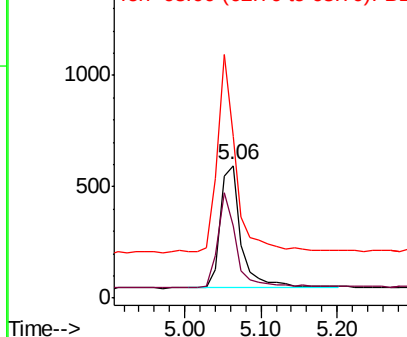
#4

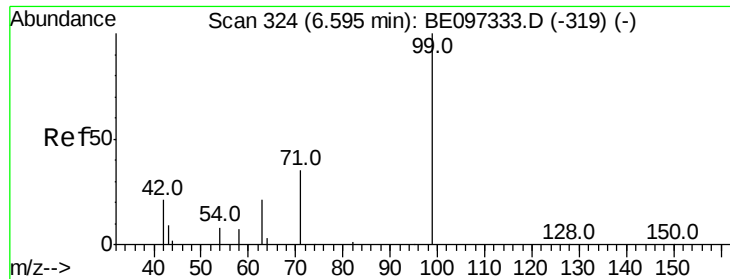
2-Fluorophenol  
 Concen: 0.504 ng  
 RT: 5.06 min Scan# 191  
 Delta R.T. 0.01 min  
 Lab File: BE097340.D  
 Acq: 20 Aug 2018 20:04

Tgt Ion:112 Resp: 1082  
 Ion Ratio Lower Upper  
 112 100  
 64 70.3 60.1 90.1  
 63 142.5 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BE0  
 Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.339 ng

RT: 6.61 min Scan# 325

Delta R.T. 0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampleId :

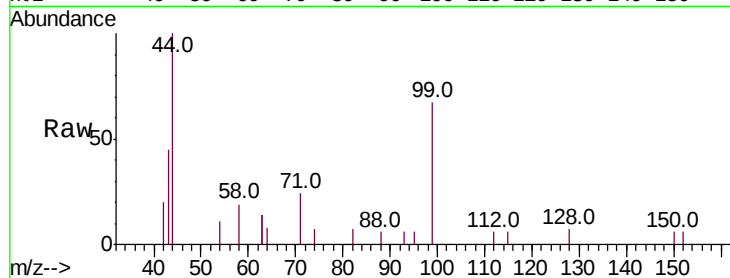
Tot Ion: 99 Resp: 1079

Ion Ratio Lower Upper

99 100

42 21.2 20.2 30.2

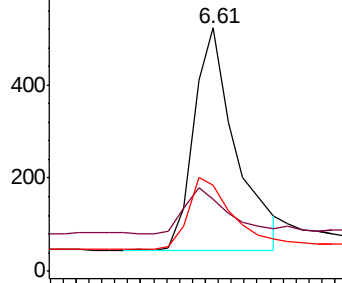
71 35.3 28.4 42.6



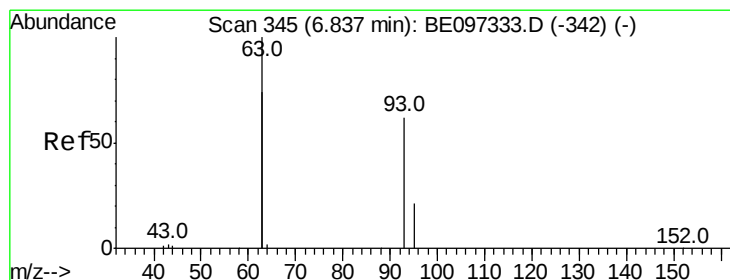
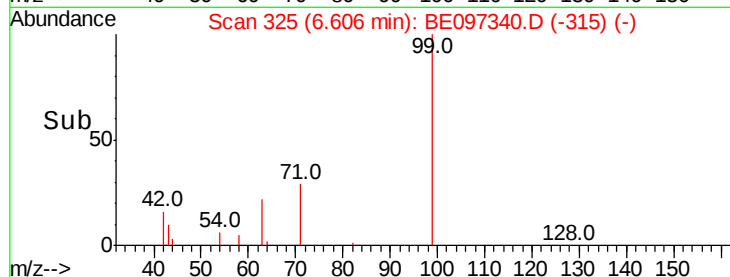
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.001 ng

RT: 6.85 min Scan# 346

Delta R.T. 0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

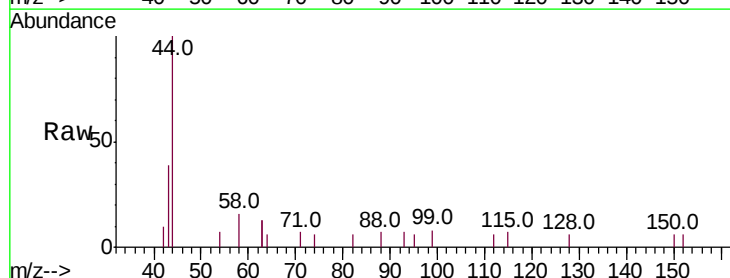
Tgt Ion: 93 Resp: 3

Ion Ratio Lower Upper

93 100

63 0.0 275.3 412.9#

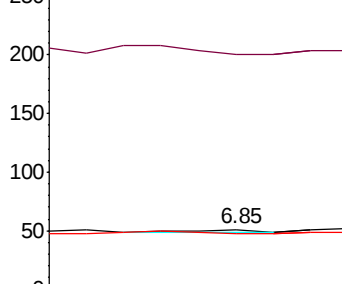
95 0.0 25.2 37.8#



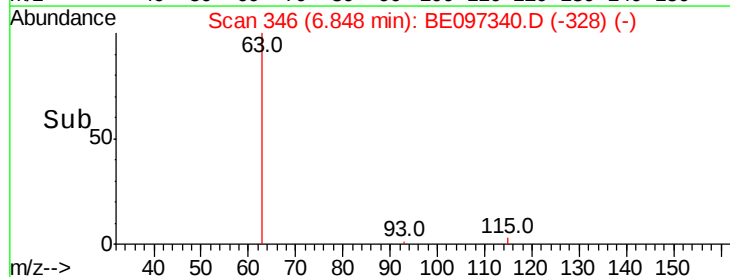
Abundance Ion 93.00 (92.70 to 93.70): BE0

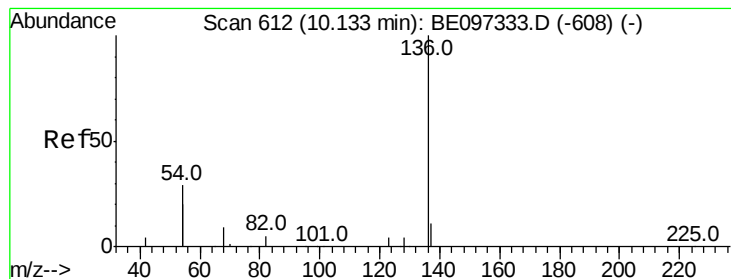
Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0



Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 613

Delta R.T. 0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 3910

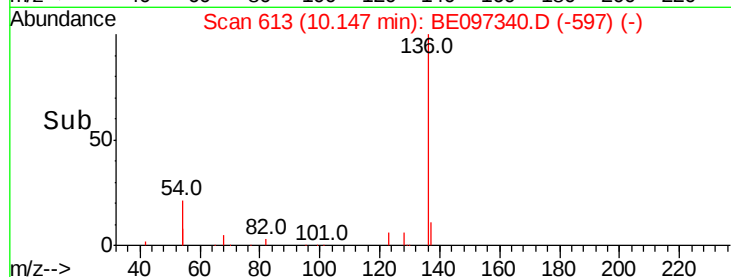
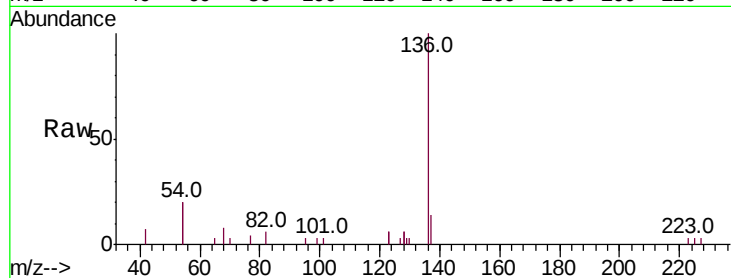
Ion Ratio Lower Upper

136 100

137 13.5 9.5 14.3

54 40.4 29.1 43.7

68 8.3 6.2 9.2

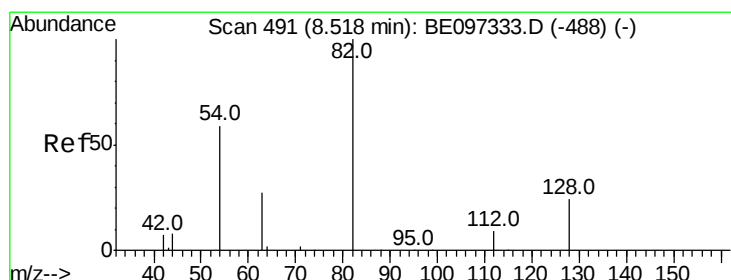
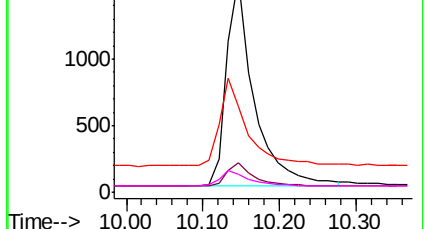


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.489 ng

RT: 8.53 min Scan# 492

Delta R.T. 0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

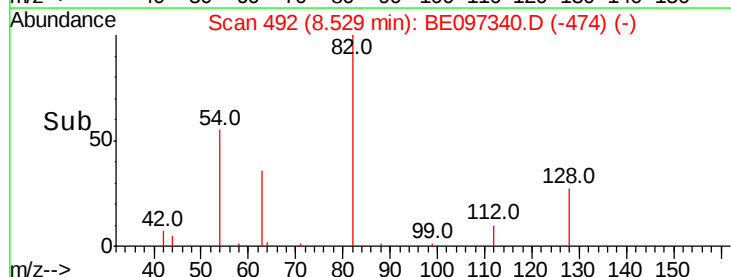
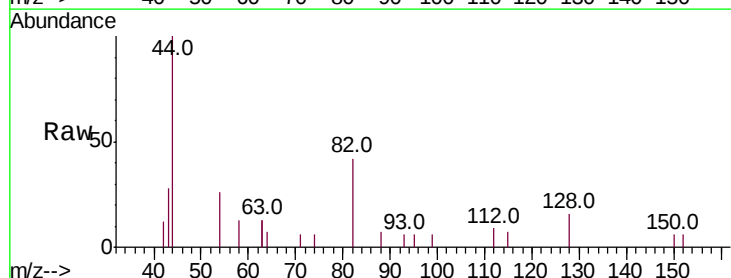
Tgt Ion: 82 Resp: 818

Ion Ratio Lower Upper

82 100

128 38.2 24.0 36.0#

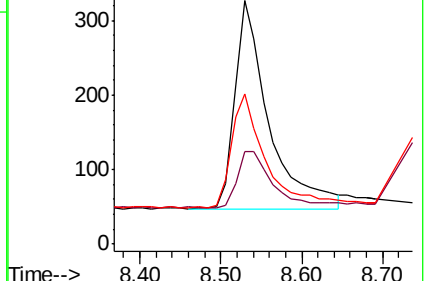
54 61.8 40.0 60.0#

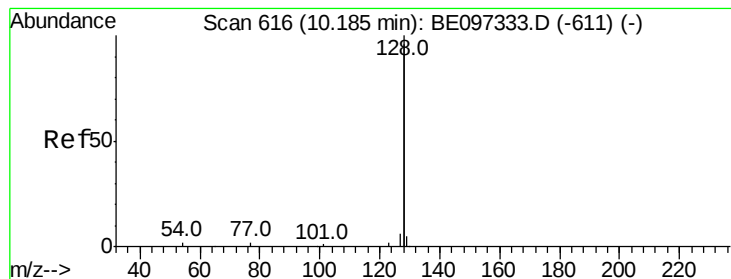


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.002 ng

RT: 10.19 min Scan# 616

Delta R.T. 0.00 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampleId :

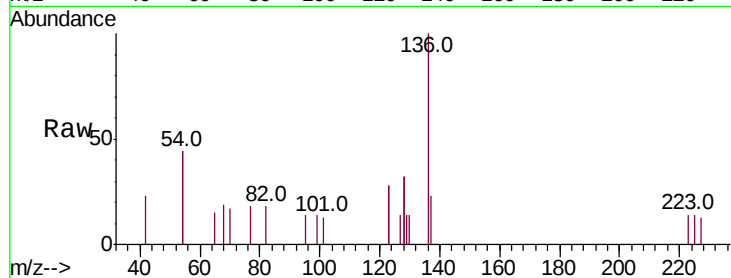
Tot Ion:128 Resp: 69

Ion Ratio Lower Upper

128 100

129 22.9 2.6 3.8#

127 22.4 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

10.19

200

150

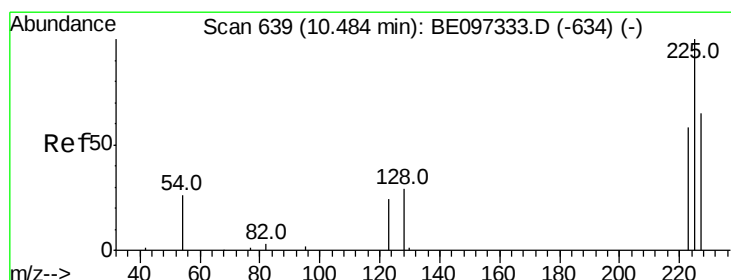
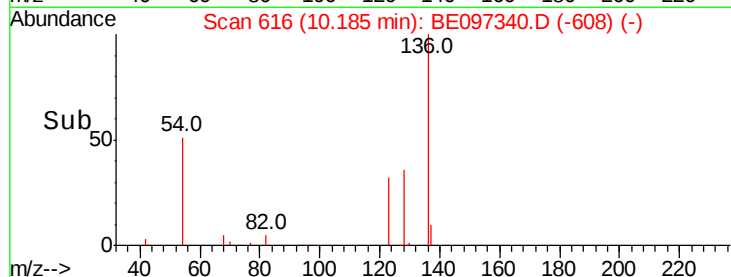
100

50

0

10.10 10.20

Time-->



#10

Hexachlorobutadiene

Concen: 0.005 ng

RT: 10.51 min Scan# 641

Delta R.T. 0.03 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

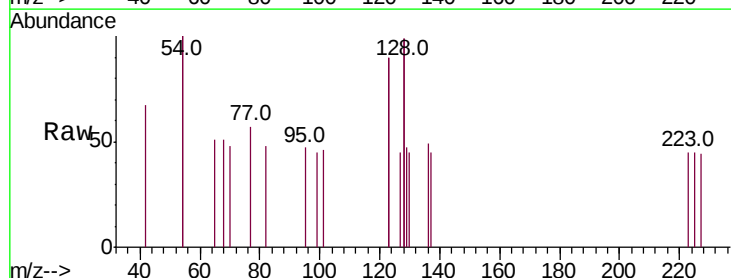
Tgt Ion:225 Resp: 8

Ion Ratio Lower Upper

225 100

223 0.0 53.0 79.6#

227 12.5 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

10.51

60

50

40

30

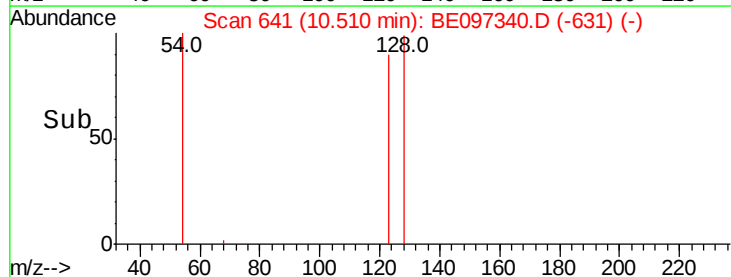
20

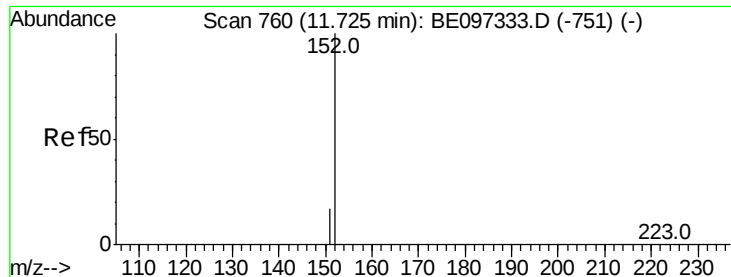
10

0

10.40 10.50

Time-->

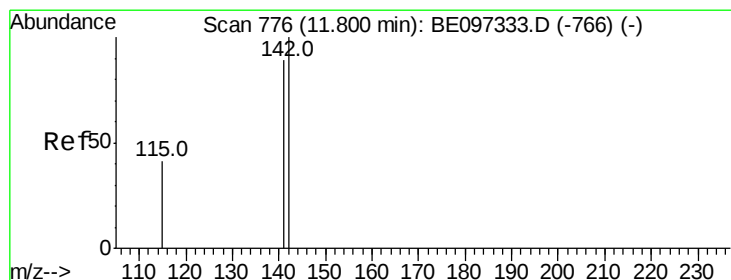
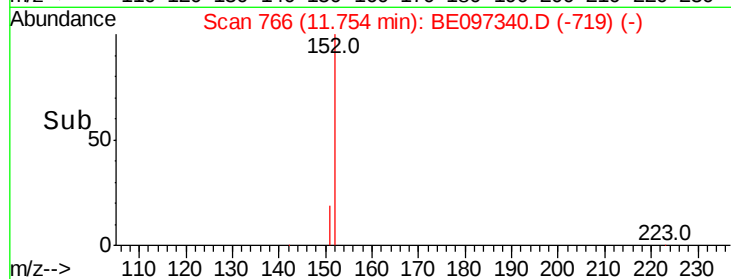
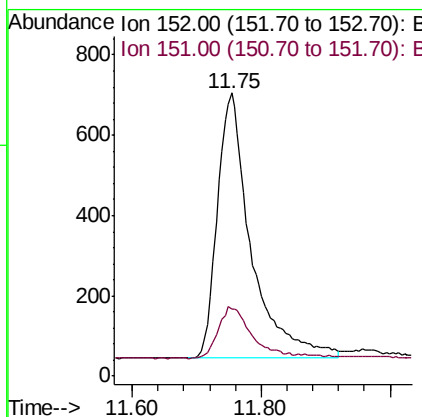
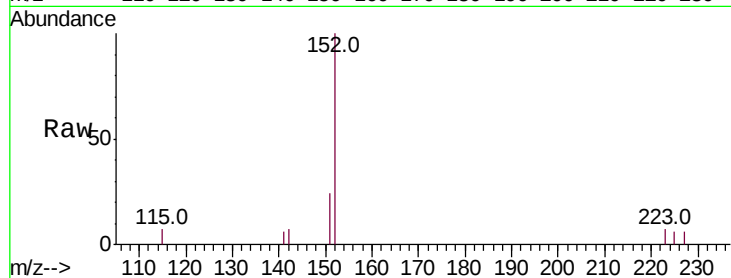




#11  
2-Methylnaphthalene-d10  
Concen: 0.455 ng  
RT: 11.75 min Scan# 766  
Delta R.T. 0.03 min  
Lab File: BE097340.D  
Acq: 20 Aug 2018 20:04

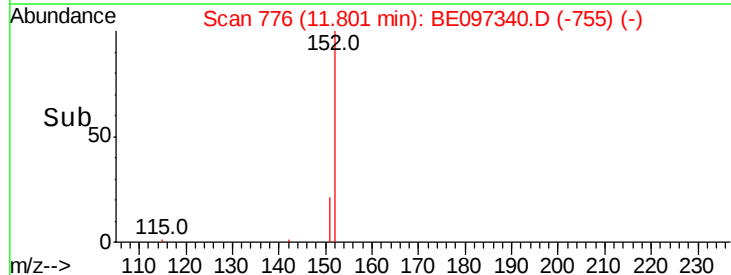
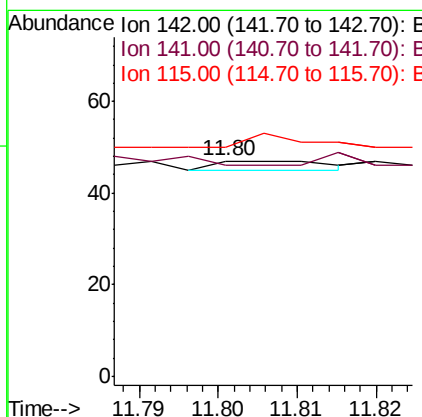
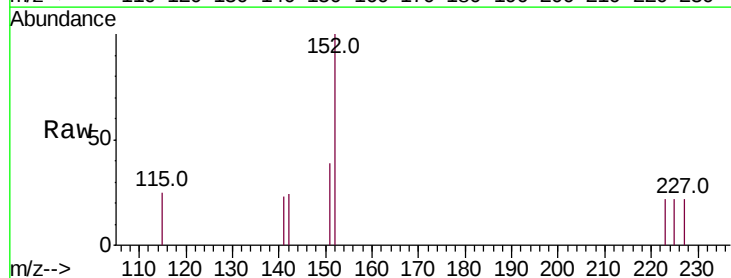
Instrument :  
BNA\_E  
ClientSampleId :

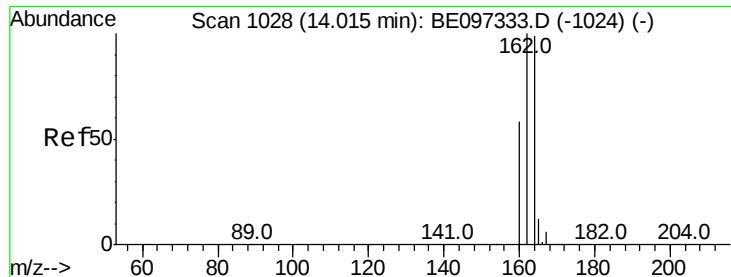
Tot Ion:152 Resp: 2404  
Ion Ratio Lower Upper  
152 100  
151 19.3 15.4 23.0



#12  
2-Methylnaphthalene  
Concen: 0.000 ng  
RT: 11.80 min Scan# 776  
Delta R.T. 0.00 min  
Lab File: BE097340.D  
Acq: 20 Aug 2018 20:04

Tgt Ion:142 Resp: 2  
Ion Ratio Lower Upper  
142 100  
141 97.9 70.4 105.6  
115 106.4 31.7 47.5#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.03 min Scan# 1028

Delta R.T. 0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampleId :

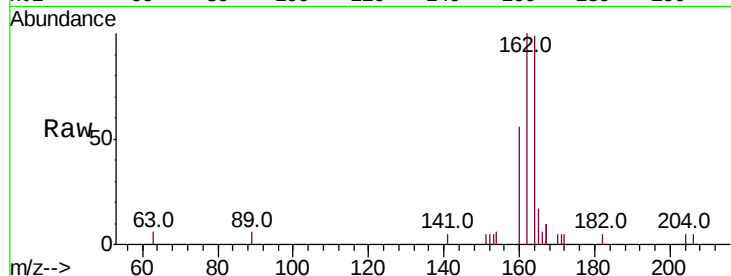
Tot Ion:164 Resp: 1954

Ion Ratio Lower Upper

164 100

162 100.6 83.1 124.7

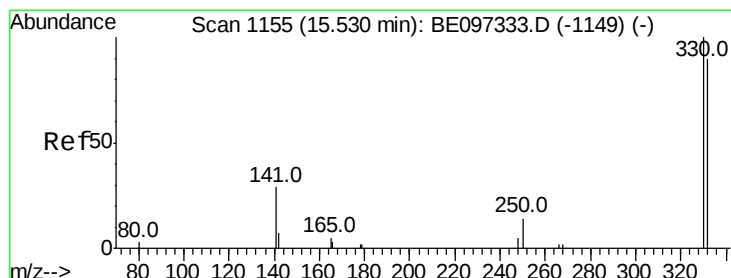
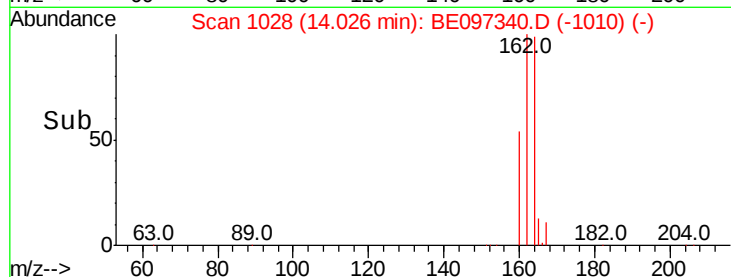
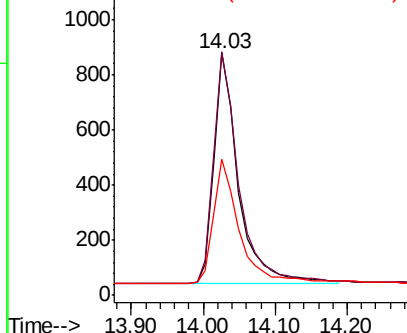
160 56.4 37.1 55.7#



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: 0.299 ng

RT: 15.55 min Scan# 1156

Delta R.T. 0.02 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

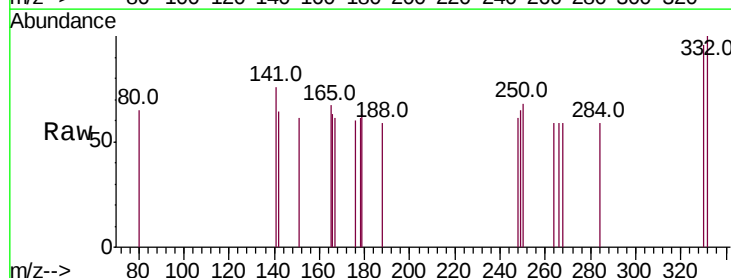
Tgt Ion:330 Resp: 89

Ion Ratio Lower Upper

330 100

332 101.1 152.7 229.1#

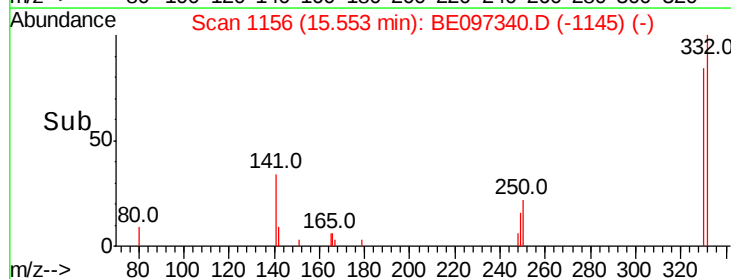
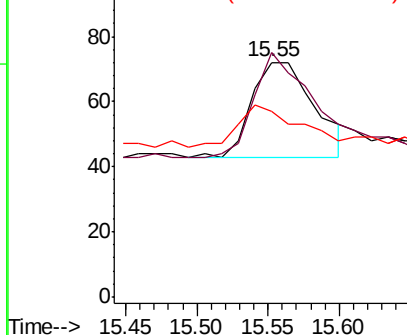
141 42.7 33.7 50.5

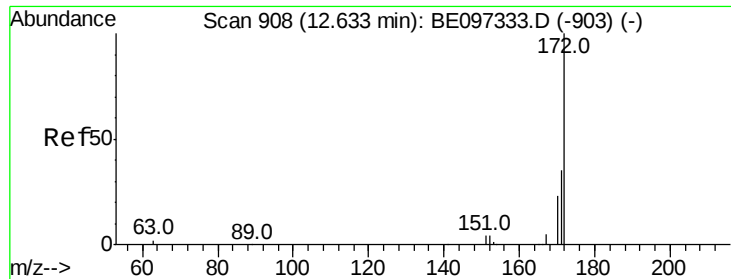


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

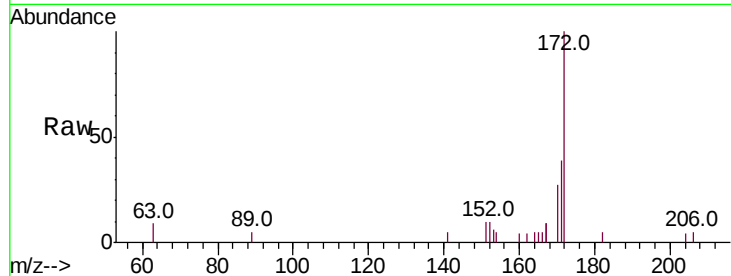




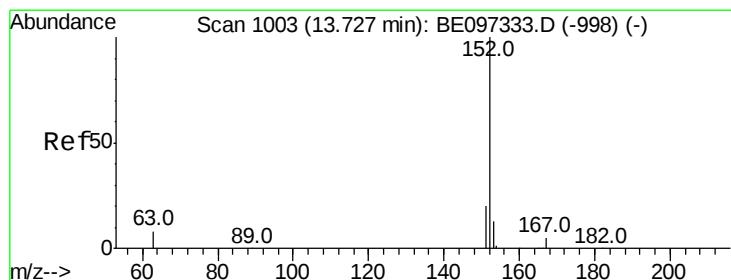
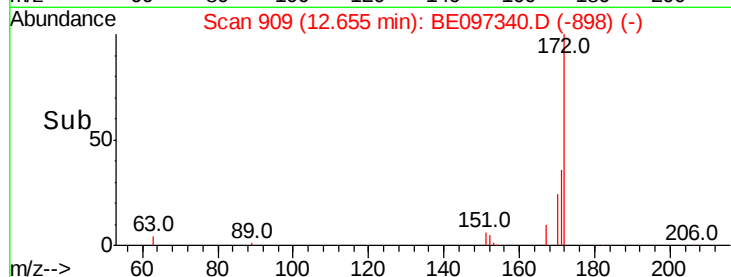
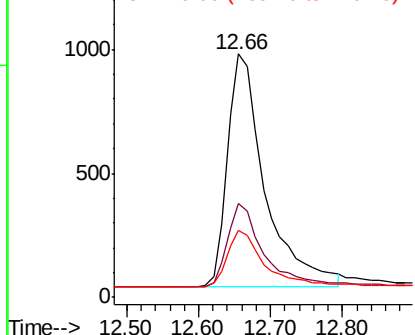
#15  
2-Fluorobiphenyl  
Concen: 0.426 ng  
RT: 12.66 min Scan# 909  
Delta R.T. 0.02 min  
Lab File: BE097340.D  
Acq: 20 Aug 2018 20:04

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 3415  
Ion Ratio Lower Upper  
172 100  
171 38.6 29.9 44.9  
170 27.5 21.8 32.8

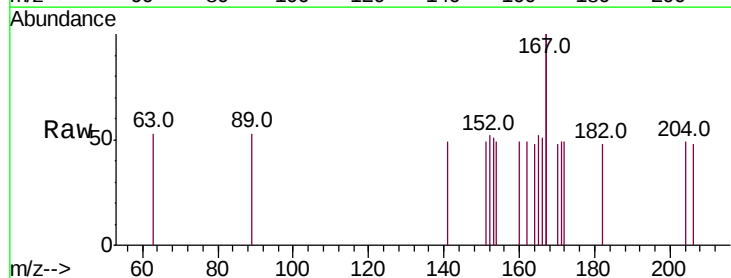


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

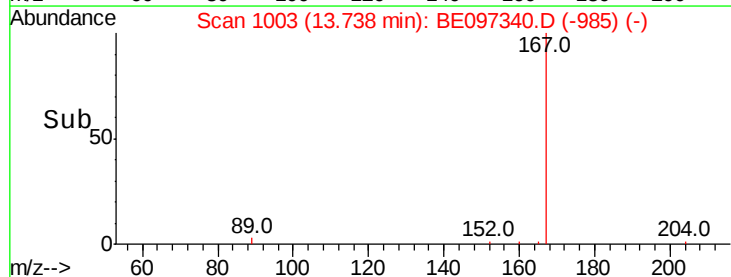
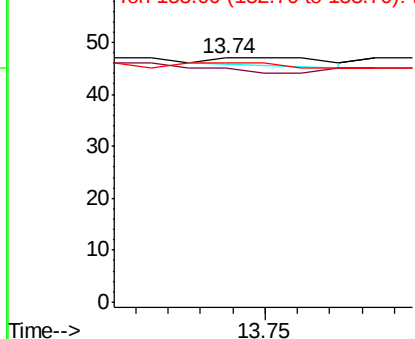


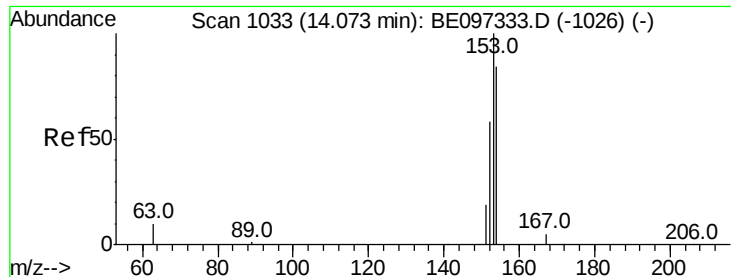
#16  
Acenaphthylene  
Concen: 0.000 ng  
RT: 13.74 min Scan# 1003  
Delta R.T. 0.01 min  
Lab File: BE097340.D  
Acq: 20 Aug 2018 20:04

Tgt Ion:152 Resp: 3  
Ion Ratio Lower Upper  
152 100  
151 0.0 15.7 23.5#  
153 233.3 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: 0.001 ng

RT: 14.01 min Scan# 1027

Delta R.T. -0.06 min

Lab File: BE097340.D

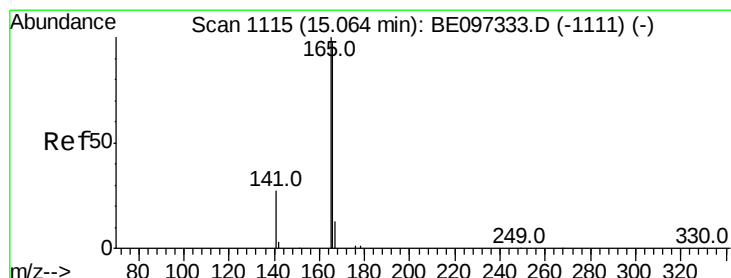
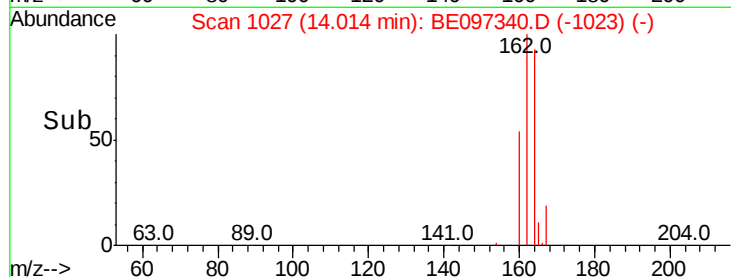
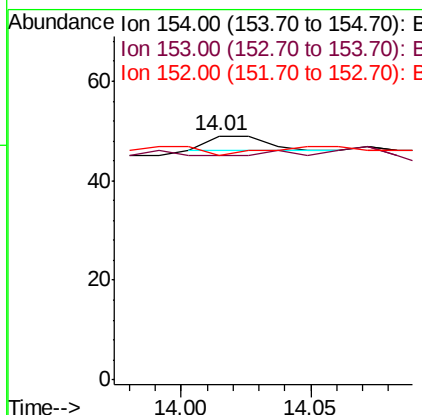
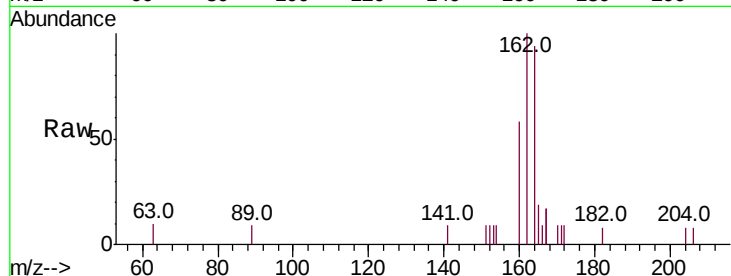
Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 154   | Resp: | 5      |
| Ion      | Ratio | Lower | Upper  |
| 154      | 100   |       |        |
| 153      | 0.0   | 89.2  | 133.8# |
| 152      | 0.0   | 42.0  | 63.0#  |



#18

Fluorene

Concen: 0.000 ng

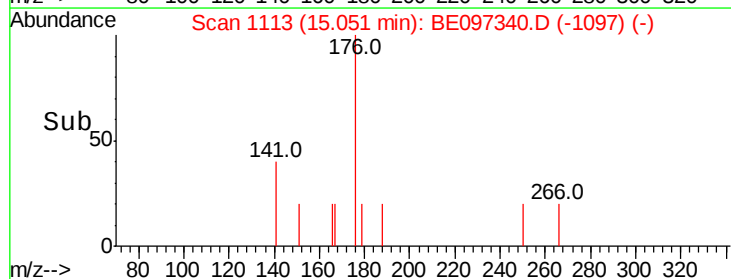
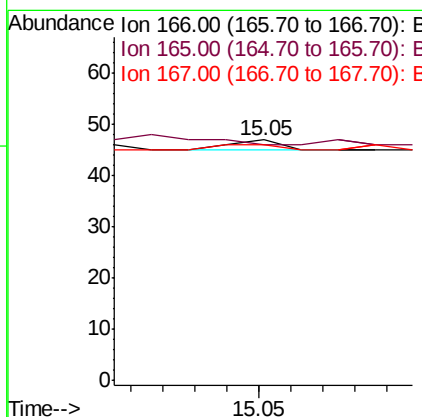
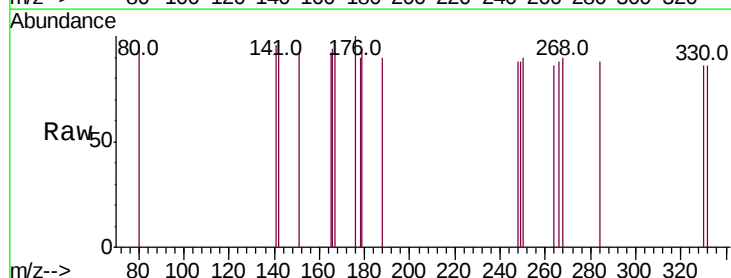
RT: 15.05 min Scan# 1113

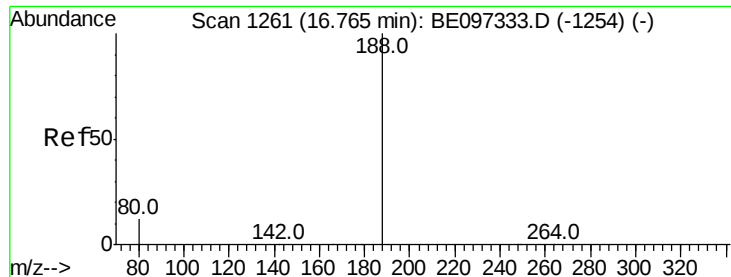
Delta R.T. -0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 166   | Resp: | 2      |
| Ion      | Ratio | Lower | Upper  |
| 166      | 100   |       |        |
| 165      | 0.0   | 77.8  | 116.6# |
| 167      | 150.0 | 42.4  | 63.6#  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.78 min Scan# 1261

Delta R.T. 0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampleId :

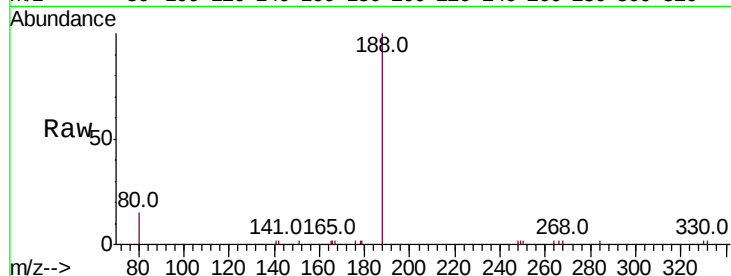
Tot Ion:188 Resp: 5783

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

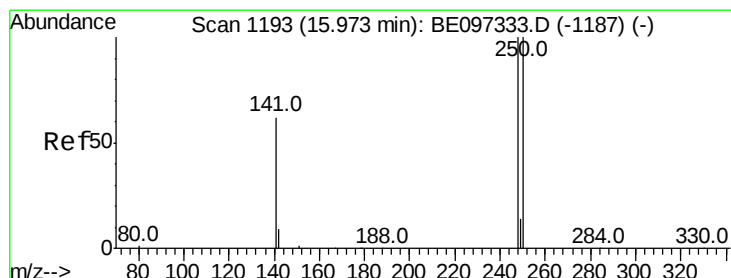
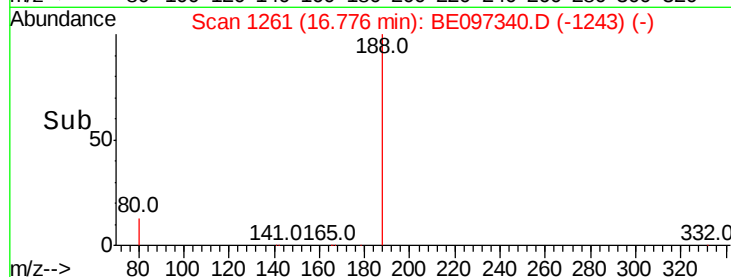
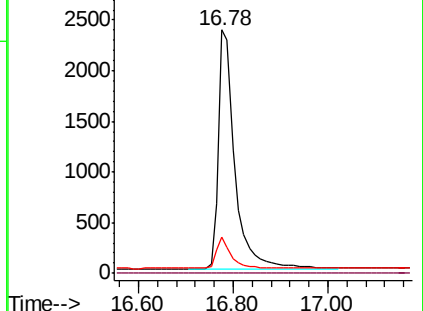
80 14.9 3.6 5.4#



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: 0.002 ng

RT: 15.97 min Scan# 1192

Delta R.T. -0.00 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

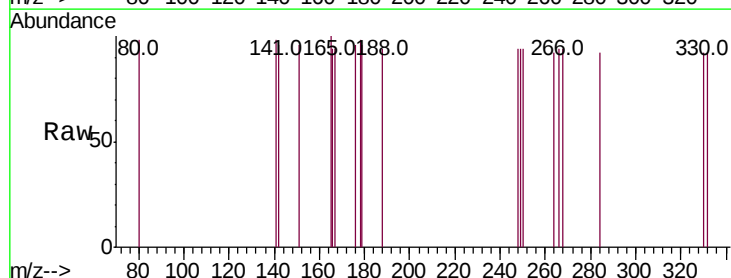
Tgt Ion:248 Resp: 5

Ion Ratio Lower Upper

248 100

250 100.0 62.7 94.1#

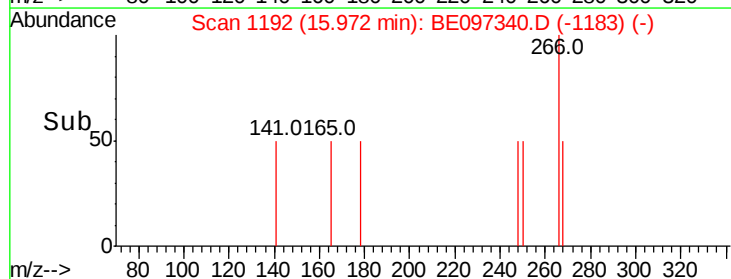
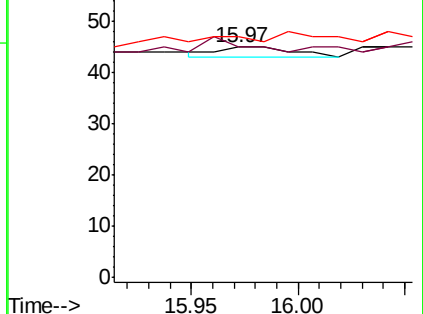
141 104.4 48.2 72.2#

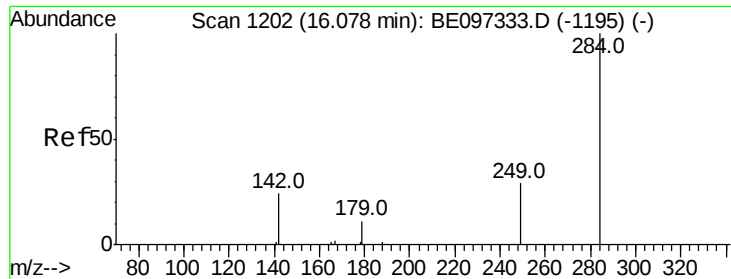


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.000 ng

RT: 16.09 min Scan# 1202

Delta R.T. 0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampled :

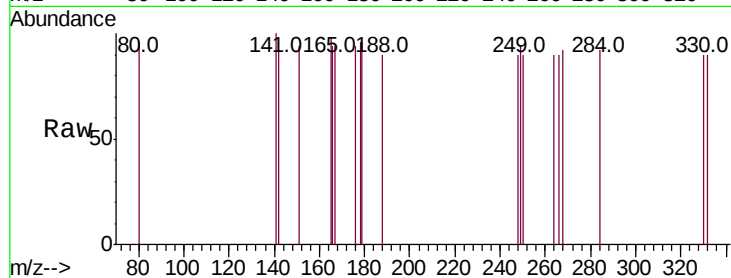
Tot Ion:284 Resp: 1

Ion Ratio Lower Upper

284 100

142 0.0 22.1 33.1#

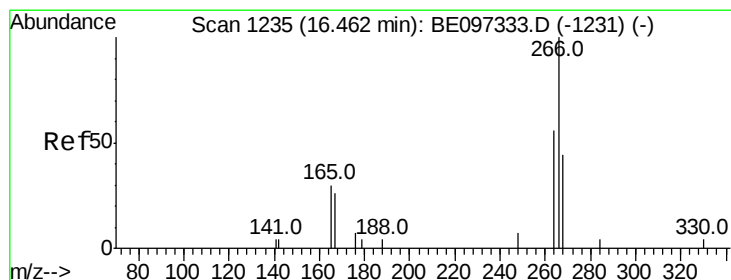
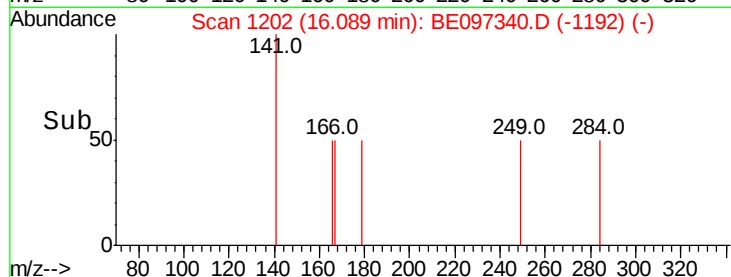
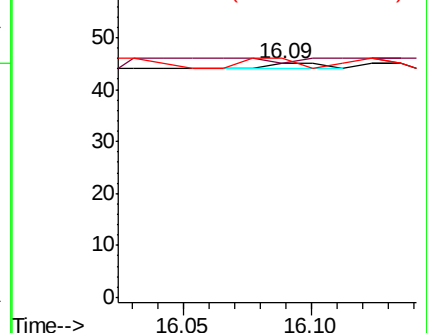
249 300.0 34.8 52.2#



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: 0.045 ng

RT: 16.48 min Scan# 1236

Delta R.T. 0.02 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

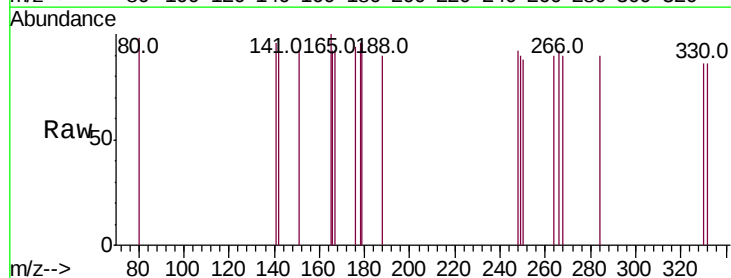
Tgt Ion:266 Resp: 10

Ion Ratio Lower Upper

266 100

264 97.8 72.5 108.7

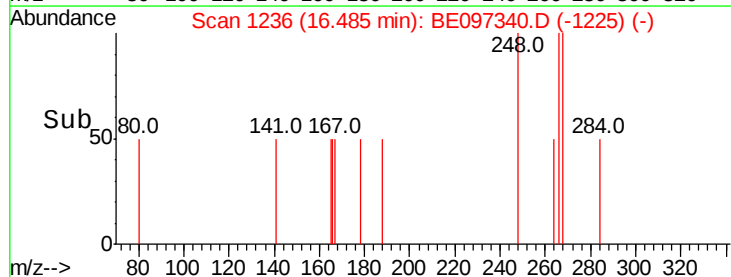
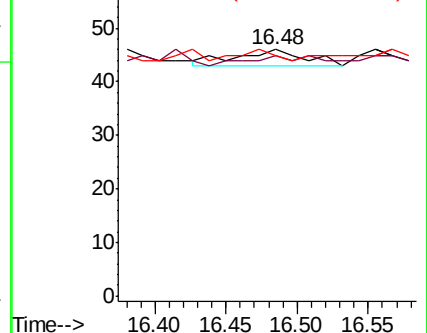
268 97.8 73.8 110.6

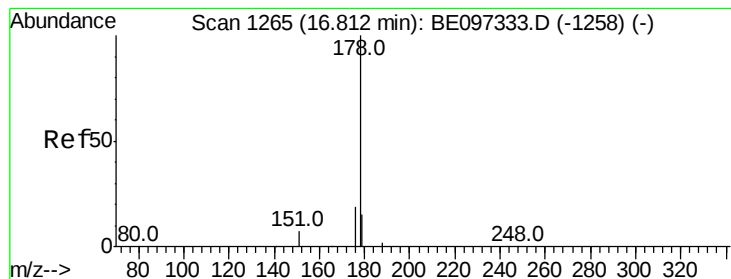


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.001 ng

RT: 16.82 min Scan# 1265

Delta R.T. 0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampleId :

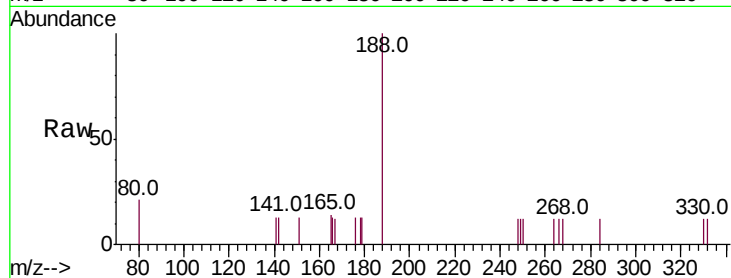
Tot Ion:178 Resp: 15

Ion Ratio Lower Upper

178 100

176 53.3 15.1 22.7#

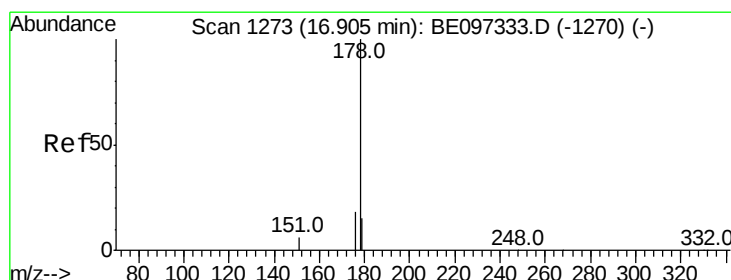
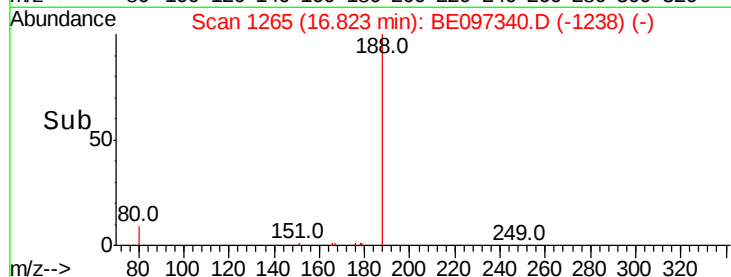
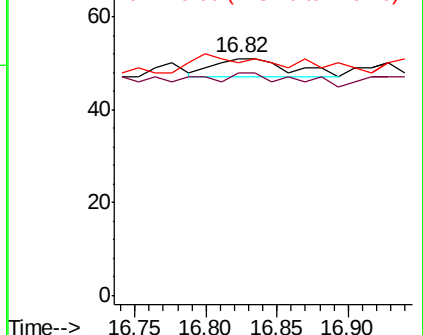
179 0.0 11.8 17.6#



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: 0.001 ng

RT: 16.93 min Scan# 1274

Delta R.T. 0.02 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

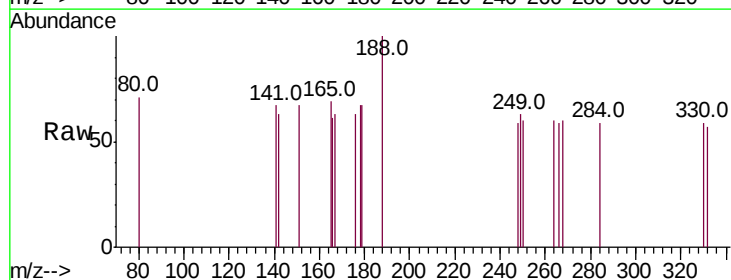
Tgt Ion:178 Resp: 6

Ion Ratio Lower Upper

178 100

176 0.0 12.8 19.2#

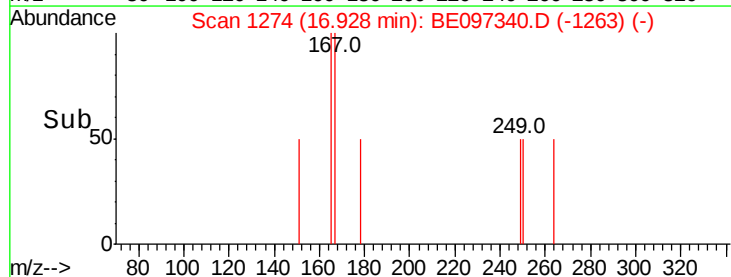
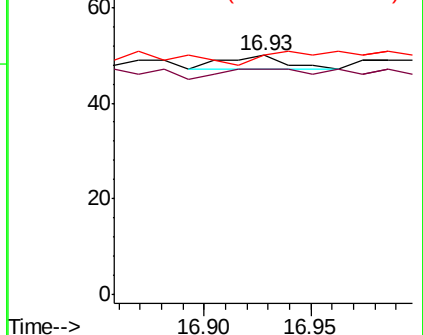
179 83.3 13.0 19.6#

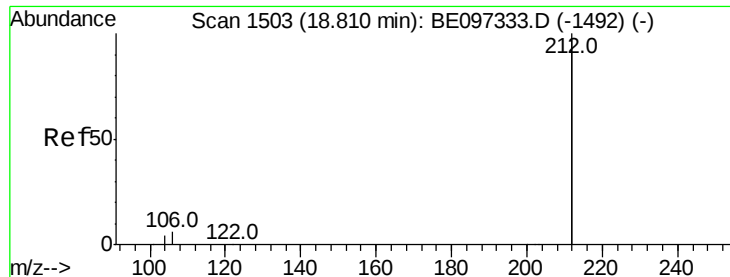


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.508 ng

RT: 18.82 min Scan# 1504

Delta R.T. 0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampleId :

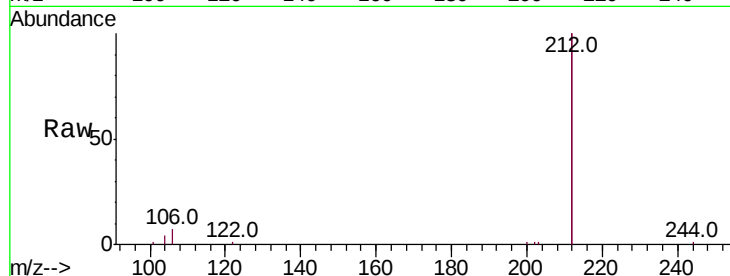
Tot Ion:212 Resp: 26202

Ion Ratio Lower Upper

212 100

106 3.1 2.8 4.2

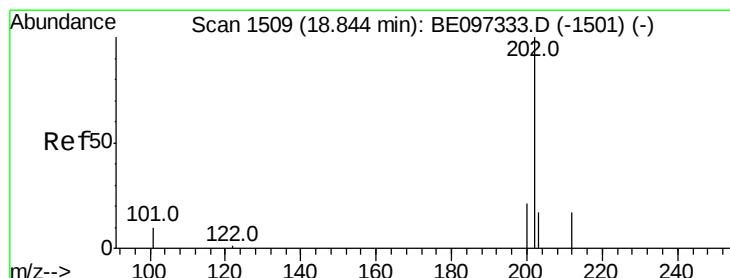
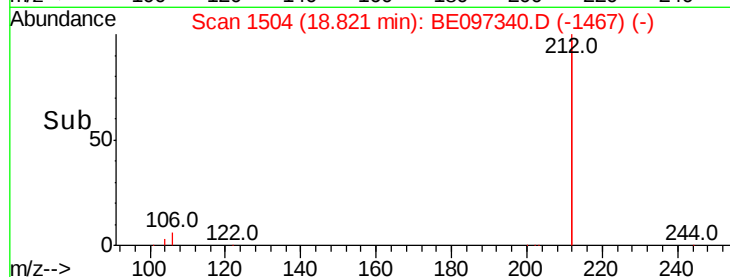
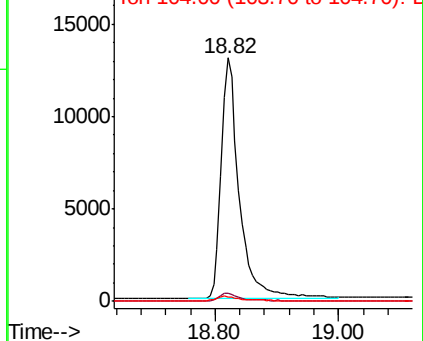
104 1.8 1.6 2.4



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: 0.001 ng

RT: 18.84 min Scan# 1508

Delta R.T. -0.00 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

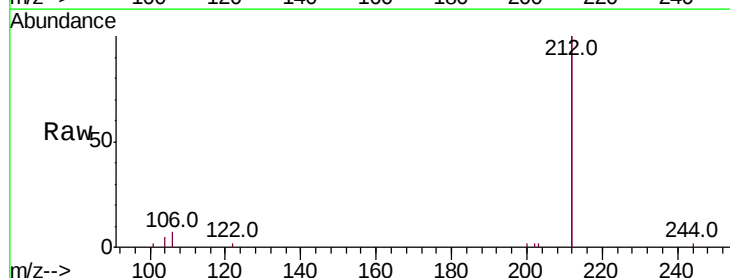
Tgt Ion:202 Resp: 10

Ion Ratio Lower Upper

202 100

101 0.0 9.8 14.8#

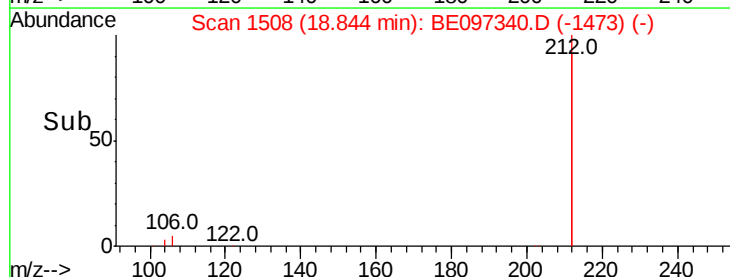
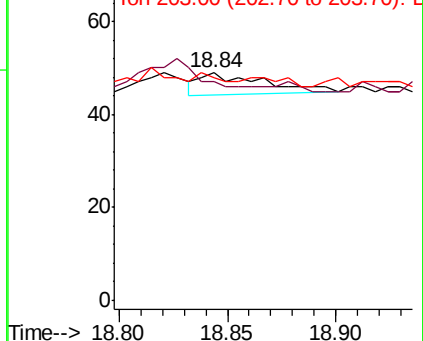
203 20.0 13.7 20.5

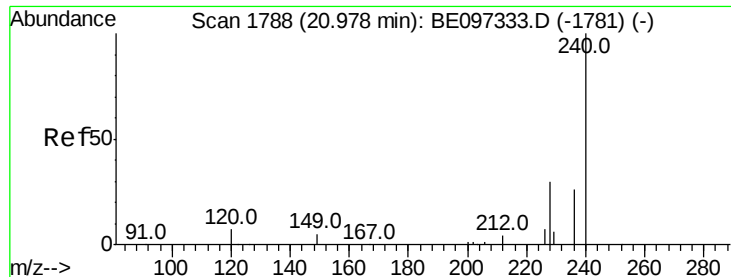


Abundance Ion 202.00 (201.70 to 202.70): E

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: 20.98 min Scan# 1787

Delta R.T. 0.00 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampled :

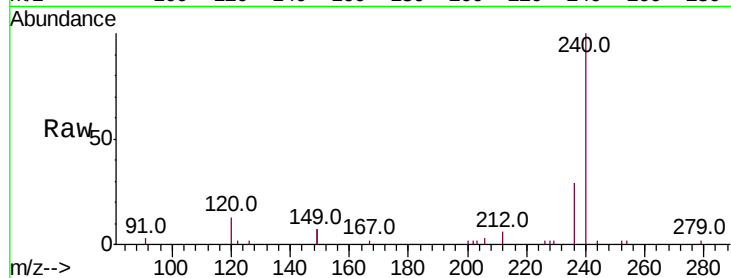
Tot Ion:240 Resp: 4638

Ion Ratio Lower Upper

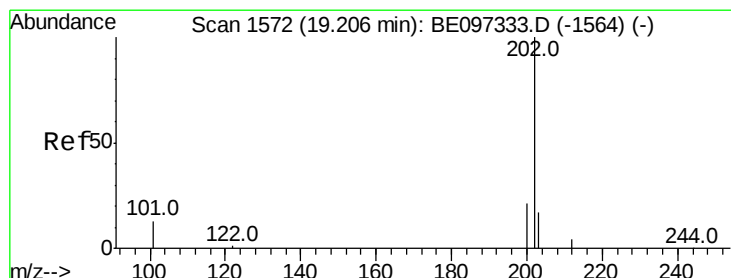
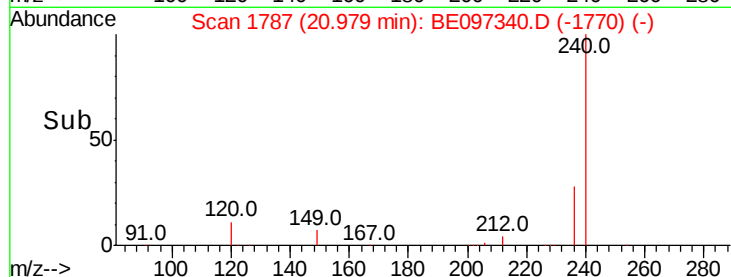
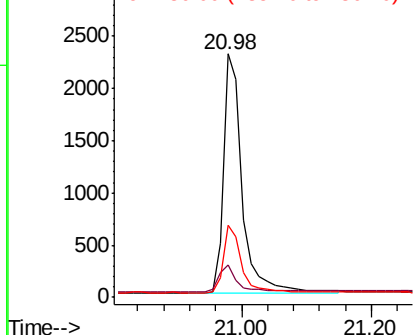
240 100

120 13.2 5.5 8.3#

236 29.4 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: 0.001 ng

RT: 19.22 min Scan# 1573

Delta R.T. 0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

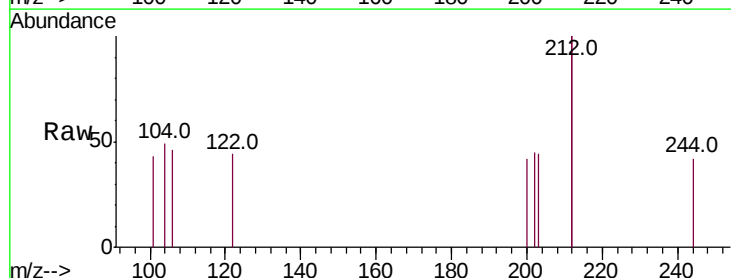
Tgt Ion:202 Resp: 10

Ion Ratio Lower Upper

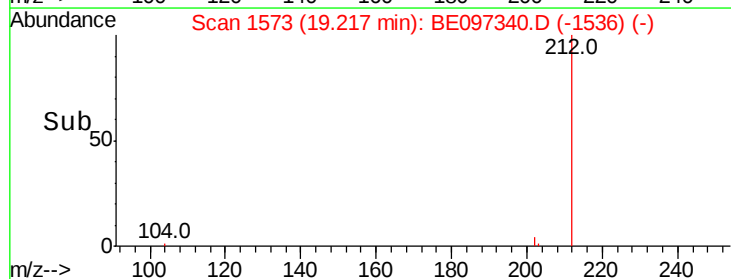
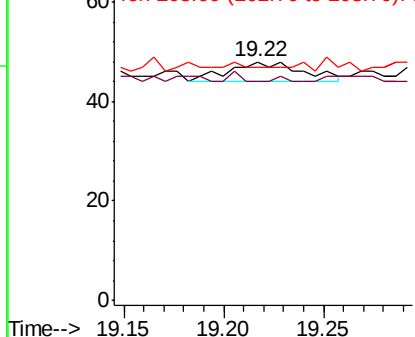
202 100

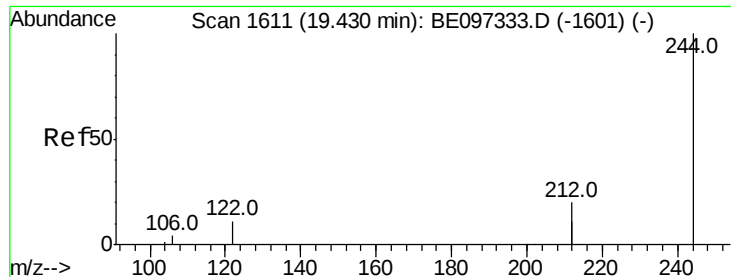
200 10.0 16.6 25.0#

203 0.0 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: 0.444 ng

RT: 19.44 min Scan# 1611

Delta R.T. 0.00 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampled :

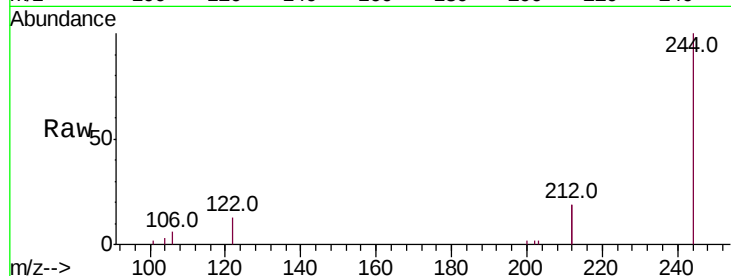
Tot Ion:244 Resp: 4123

Ion Ratio Lower Upper

244 100

212 37.5 25.4 38.0

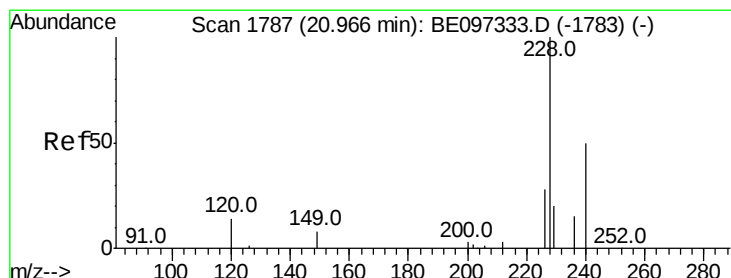
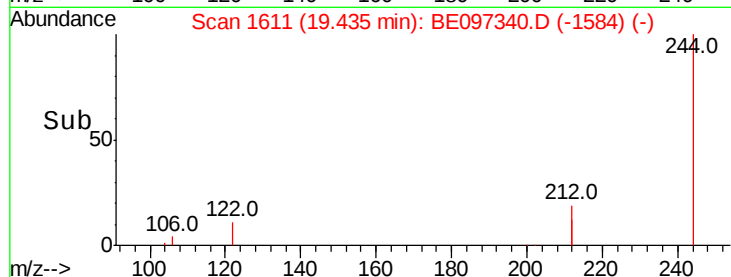
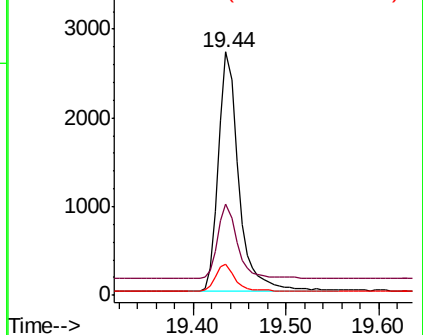
122 12.6 8.1 12.1#



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



#30

Benzo(a)anthracene

Concen: 0.003 ng

RT: 20.98 min Scan# 1787

Delta R.T. 0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

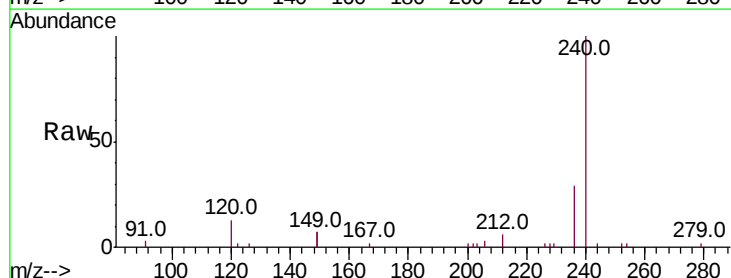
Tgt Ion:228 Resp: 30

Ion Ratio Lower Upper

228 100

226 88.7 24.0 36.0#

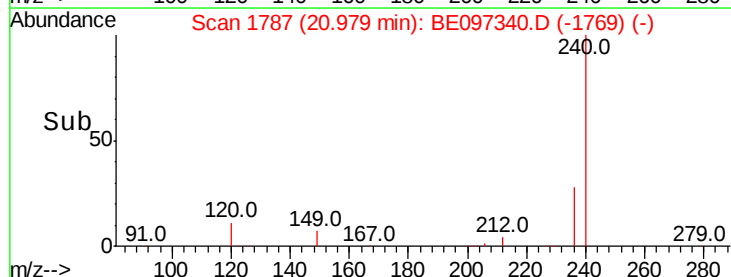
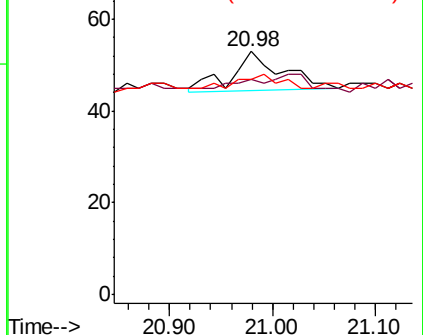
229 88.7 16.0 24.0#

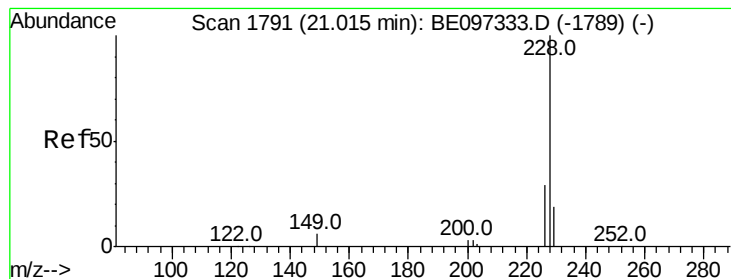


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.002 ng

RT: 20.98 min Scan# 1787

Delta R.T. -0.04 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampleId :

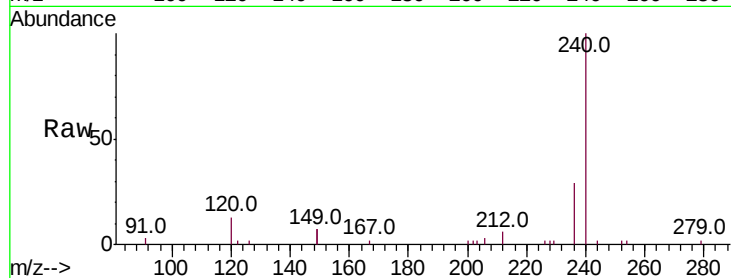
Tot Ion:228 Resp: 22

Ion Ratio Lower Upper

228 100

226 88.7 24.0 36.0#

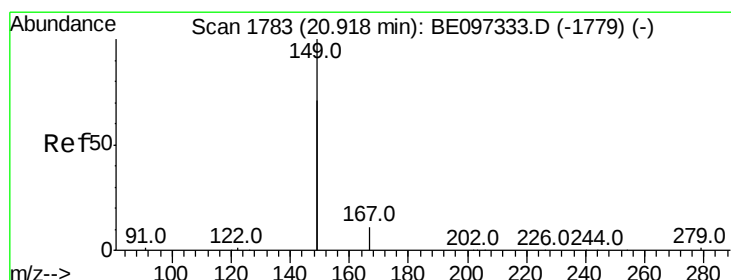
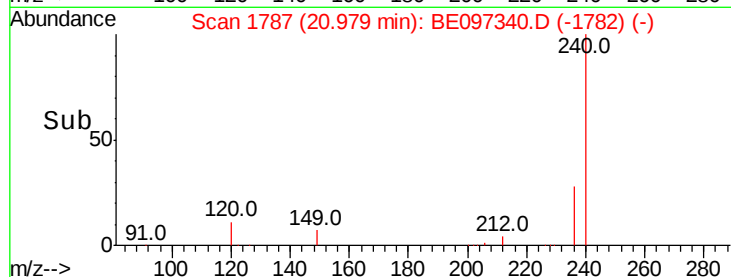
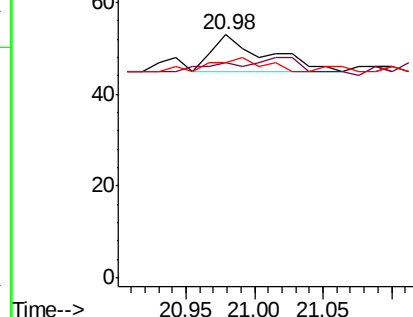
229 88.7 16.0 24.0#



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: Below Cal

RT: 20.92 min Scan# 1782

Delta R.T. 0.00 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

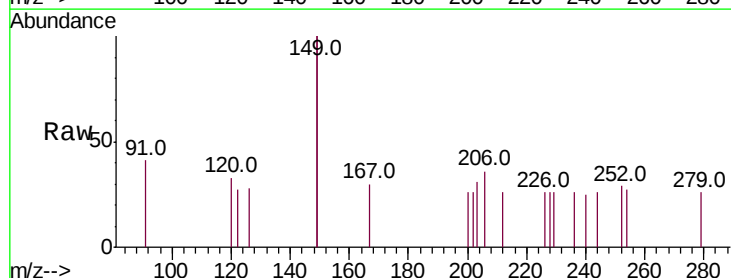
Tgt Ion:149 Resp: 57

Ion Ratio Lower Upper

149 100

167 15.8 5.4 8.0#

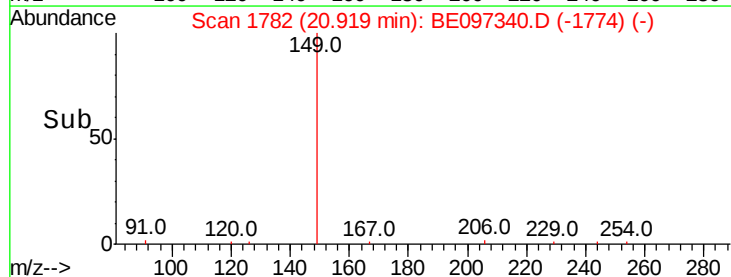
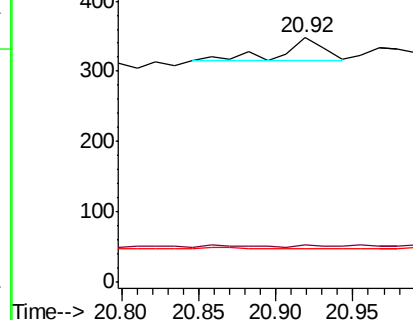
279 5.3 0.7 1.1#

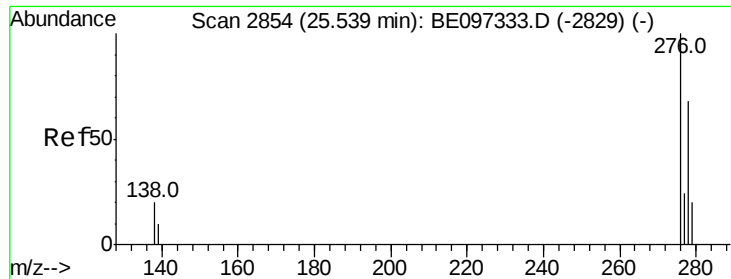


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.000 ng

RT: 25.51 min Scan# 2845

Delta R.T. -0.03 min

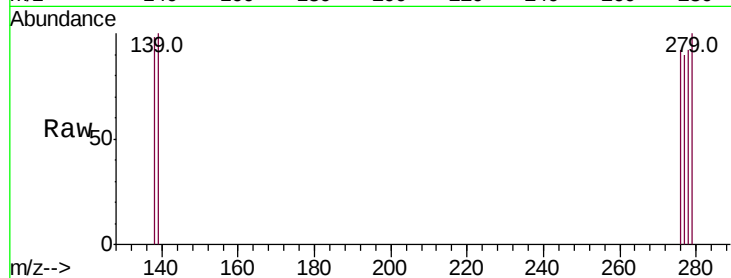
Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampleId :



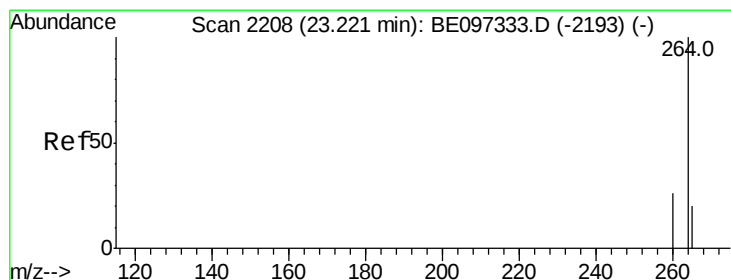
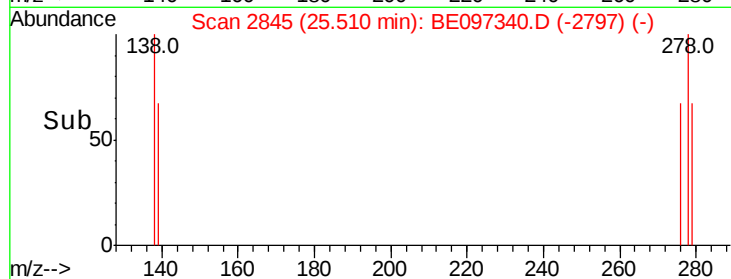
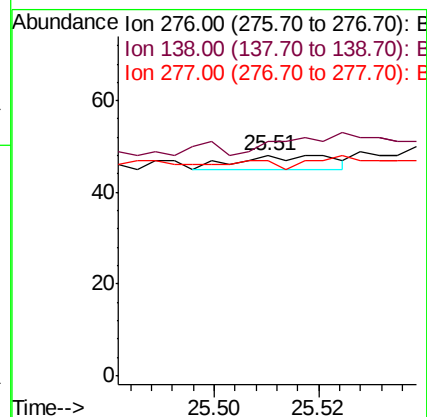
Tot Ion:276 Resp: 4

Ion Ratio Lower Upper

276 100

138 25.0 22.5 33.7

277 25.0 19.9 29.9



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.23 min Scan# 2208

Delta R.T. 0.00 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

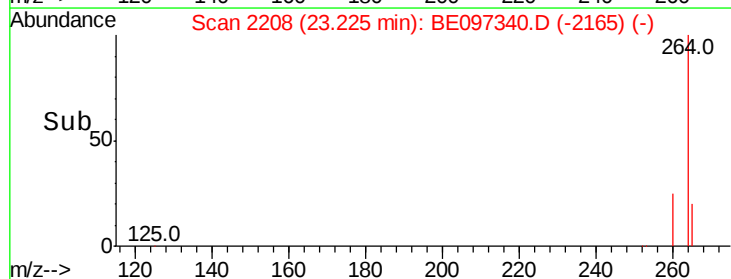
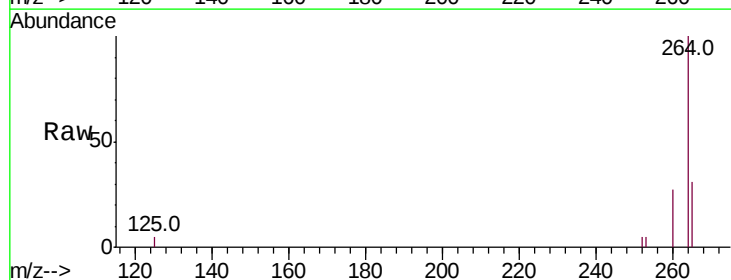
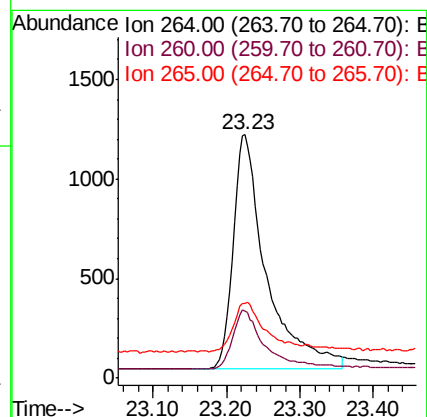
Tgt Ion:264 Resp: 3715

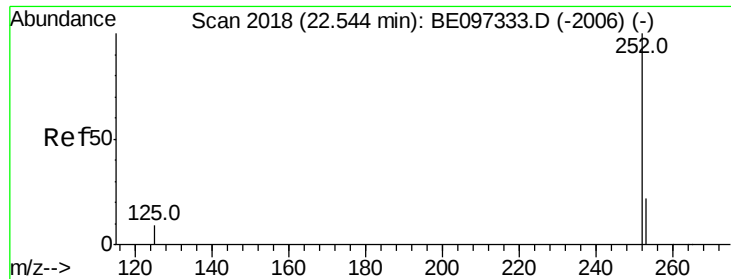
Ion Ratio Lower Upper

264 100

260 27.4 20.5 30.7

265 30.7 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.000 ng

RT: 22.53 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BE097340.D

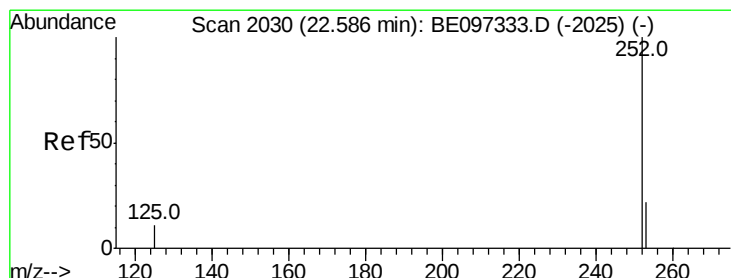
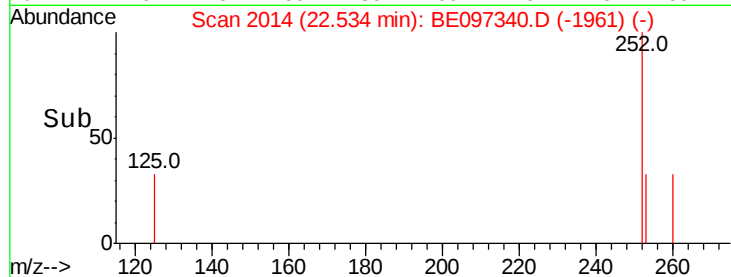
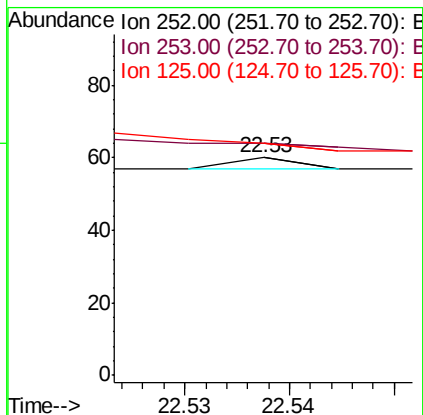
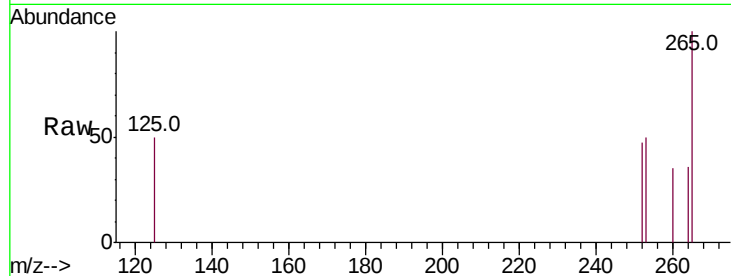
Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 252   | Resp: | 1     |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 106.7 | 20.0  | 30.0# |
| 125      | 106.7 | 16.0  | 24.0# |



#36

Benzo(k)fluoranthene

Concen: 0.001 ng

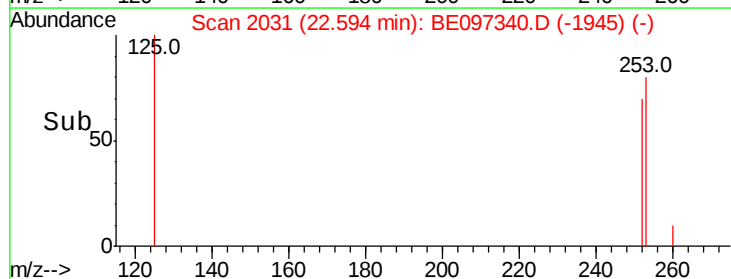
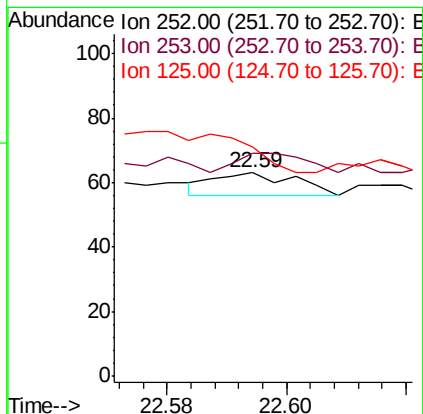
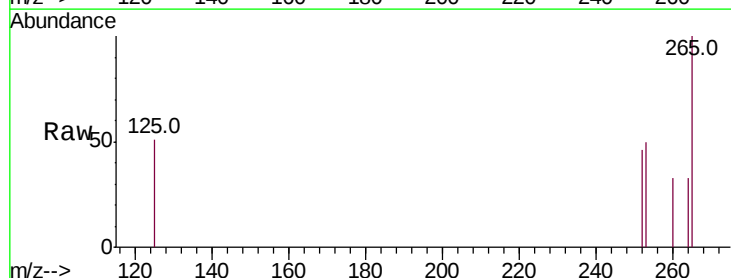
RT: 22.59 min Scan# 2031

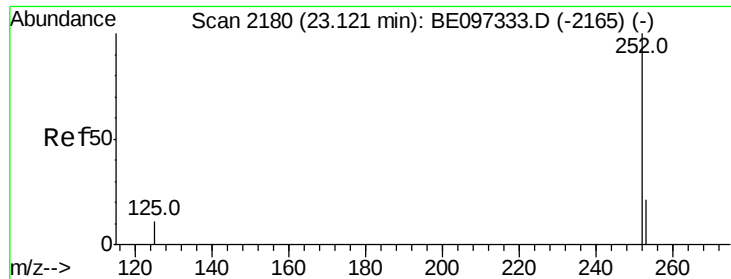
Delta R.T. 0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 7     |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 109.5 | 16.0  | 24.0# |
| 125      | 112.7 | 8.0   | 12.0# |





#37

Benzo(a)pyrene

Concen: 0.000 ng

RT: 23.13 min Scan# 2180

Delta R.T. 0.00 min

Lab File: BE097340.D

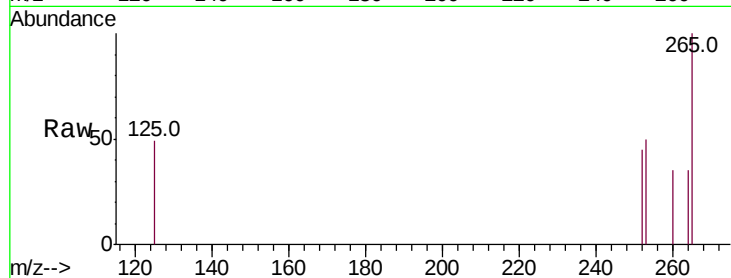
Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampleId :

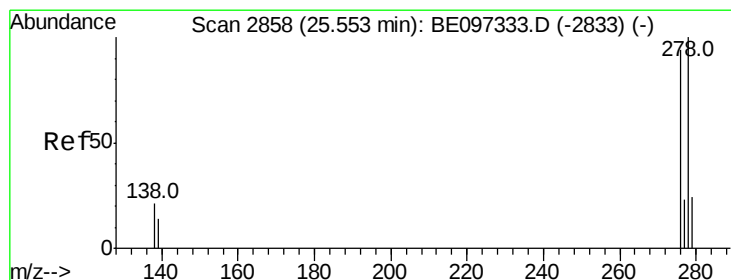
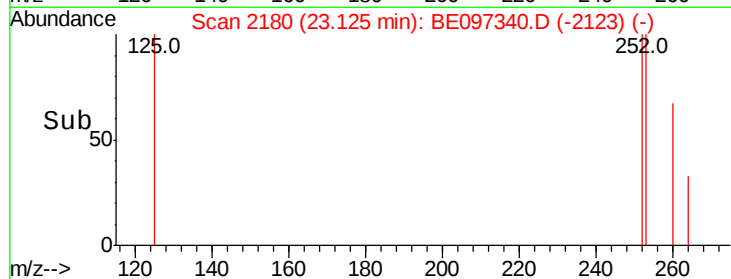
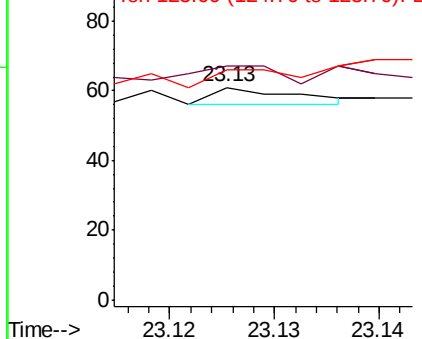
|     |         |       |       |
|-----|---------|-------|-------|
| Tot | Ion:252 | Resp: | 3     |
| Ion | Ratio   | Lower | Upper |
| 252 | 100     |       |       |
| 253 | 109.8   | 16.0  | 24.0# |
| 125 | 108.2   | 12.0  | 18.0# |



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: 0.000 ng

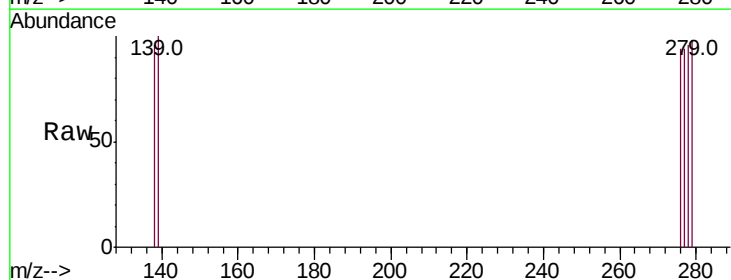
RT: 25.56 min Scan# 2860

Delta R.T. 0.01 min

Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

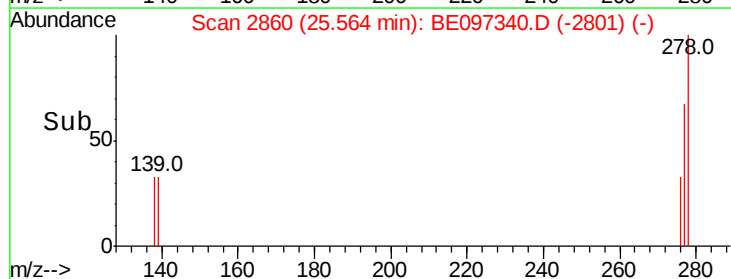
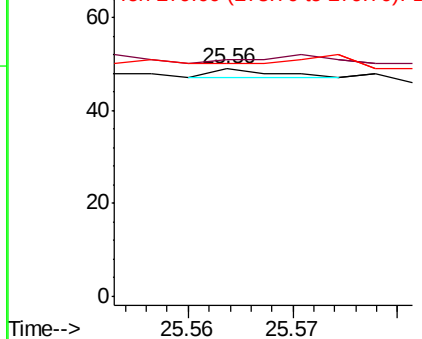
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:278 | Resp: | 1     |
| Ion | Ratio   | Lower | Upper |
| 278 | 100     |       |       |
| 139 | 104.1   | 16.0  | 24.0# |
| 279 | 102.0   | 20.0  | 30.0# |

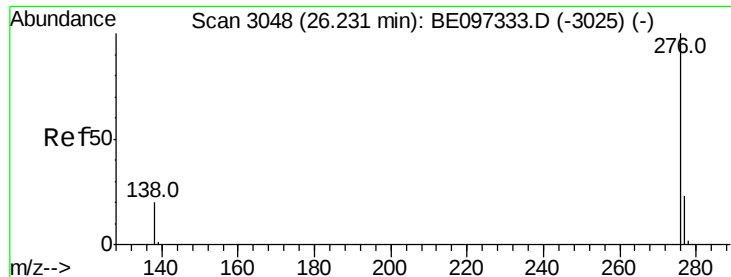


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.001 ng

RT: 26.23 min Scan# 3047

Delta R.T. -0.00 min

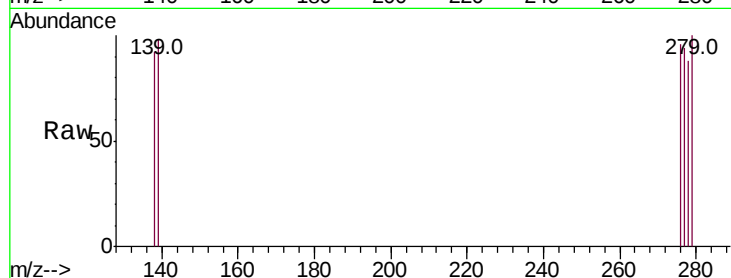
Lab File: BE097340.D

Acq: 20 Aug 2018 20:04

Instrument :

BNA\_E

ClientSampleId :



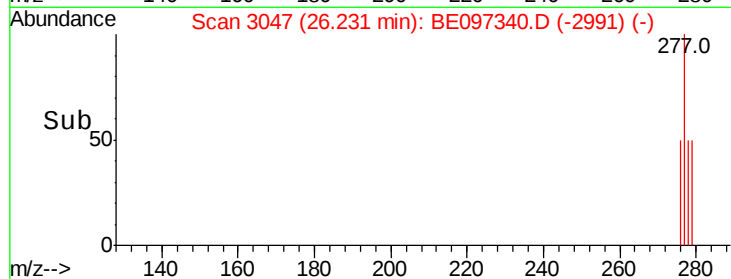
Tot Ion: 276 Resp: 4

Ion Ratio Lower Upper

276 100

277 98.0 16.0 24.0#

138 95.9 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

