

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE030819\  
 Data File : BE098830.D  
 Acq On : 8 Mar 2019 10:03  
 Operator : JU/SJ  
 Sample : PB117716BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB117716BS

Quant Time: Mar 08 11:01:54 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE030619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 06 15:33:24 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.79  | 152  | 851      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.59 | 136  | 3501     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.46 | 164  | 2283     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.22 | 188  | 5985     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.40 | 240  | 7313     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.90 | 264  | 7151     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.39  | 112 | 911   | 0.36 | ng | 0.00 |
| 5) Phenol-d6                | 6.99  | 99  | 1289  | 0.36 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.96  | 82  | 1273  | 0.35 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.19 | 152 | 2556  | 0.39 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.97 | 330 | 425   | 0.37 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.09 | 172 | 3731  | 0.39 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.24 | 212 | 34443 | 0.36 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.84 | 244 | 6785  | 0.38 | ng | 0.00 |

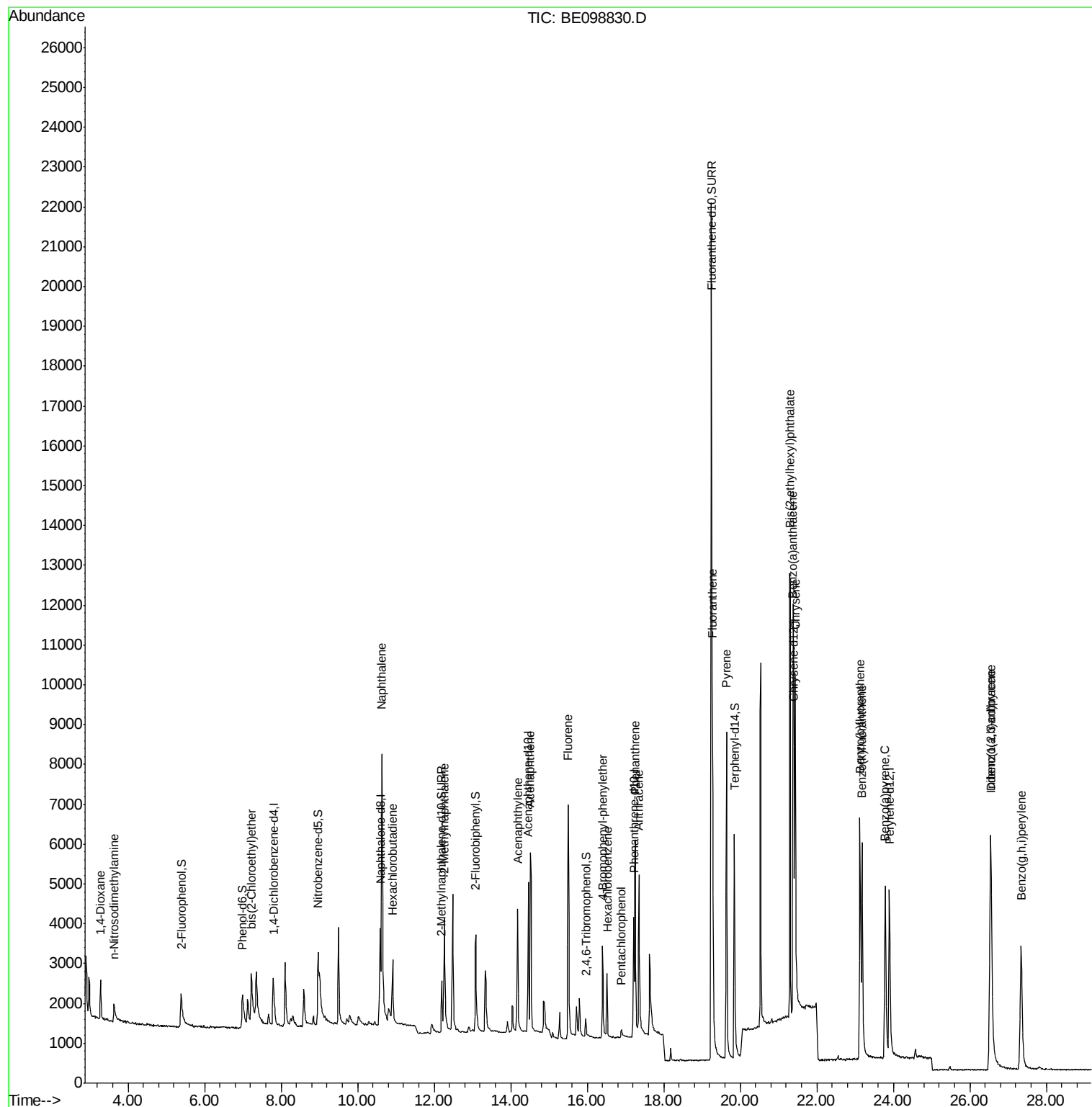
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.28  | 88  | 615   | 0.365  | ng | 98   |
| 3) n-Nitrosodimethylamine      | 3.63  | 42  | 654   | 0.305  | ng | # 96 |
| 6) bis(2-Chloroethyl)ether     | 7.22  | 93  | 924   | 0.333  | ng | 99   |
| 9) Naphthalene                 | 10.63 | 128 | 15773 | 0.393  | ng | 99   |
| 10) Hexachlorobutadiene        | 10.91 | 225 | 1027  | 0.387  | ng | 99   |
| 12) 2-Methylnaphthalene        | 12.27 | 142 | 2535  | 0.390  | ng | 94   |
| 16) Acenaphthylene             | 14.18 | 152 | 4540  | 0.387  | ng | 98   |
| 17) Acenaphthene               | 14.51 | 154 | 2732  | 0.392  | ng | 99   |
| 18) Fluorene                   | 15.50 | 166 | 3881  | 0.386  | ng | 100  |
| 20) 4-Bromophenyl-phenylether  | 16.40 | 248 | 1157  | 0.357  | ng | 93   |
| 21) Hexachlorobenzene          | 16.52 | 284 | 1504  | 0.390  | ng | 98   |
| 22) Pentachlorophenol          | 16.89 | 266 | 233   | 0.442  | ng | 83   |
| 23) Phenanthrene               | 17.26 | 178 | 6456  | 0.379  | ng | 99   |
| 24) Anthracene                 | 17.35 | 178 | 5303  | 0.365  | ng | 100  |
| 26) Fluoranthene               | 19.28 | 202 | 8796  | 0.366  | ng | 100  |
| 28) Pyrene                     | 19.64 | 202 | 8996  | 0.402  | ng | 99   |
| 30) Benzo(a)anthracene         | 21.38 | 228 | 9140  | 0.400  | ng | 100  |
| 31) Chrysene                   | 21.44 | 228 | 9137  | 0.374  | ng | 99   |
| 32) Bis(2-ethylhexyl)phthalate | 21.29 | 149 | 16097 | 0.331  | ng | 100  |
| 33) Indeno(1,2,3-cd)pyrene     | 26.53 | 276 | 10291 | 0.399  | ng | 99   |
| 35) Benzo(b)fluoranthene       | 23.13 | 252 | 9085  | 0.386  | ng | 97   |
| 36) Benzo(k)fluoranthene       | 23.18 | 252 | 9503  | 0.386  | ng | 99   |
| 37) Benzo(a)pyrene             | 23.78 | 252 | 8726  | 0.387  | ng | 99   |
| 38) Dibenzo(a,h)anthracene     | 26.55 | 278 | 8275  | 0.388  | ng | 99   |
| 39) Benzo(g,h,i)perylene       | 27.34 | 276 | 8621  | 0.386  | ng | 99   |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE030819\  
Data File : BE098830.D  
Acq On : 8 Mar 2019 10:03  
Operator : JU/SJ  
Sample : PB117716BS  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
PB117716BS

Quant Time: Mar 08 11:01:54 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE030619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 06 15:33:24 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.79 min Scan# 428

Delta R.T. 0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

Instrument :

BNA\_E

ClientSampleId :

PB117716BS

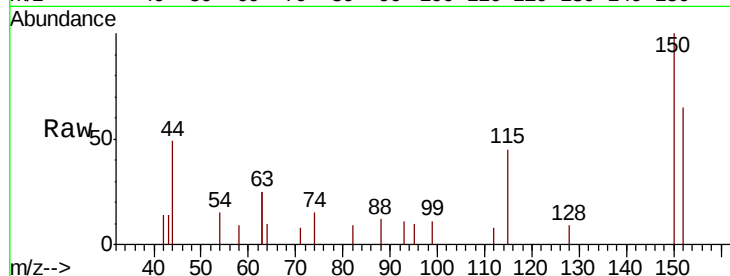
Tot Ion:152 Resp: 851

Ion Ratio Lower Upper

152 100

150 153.1 122.5 183.7

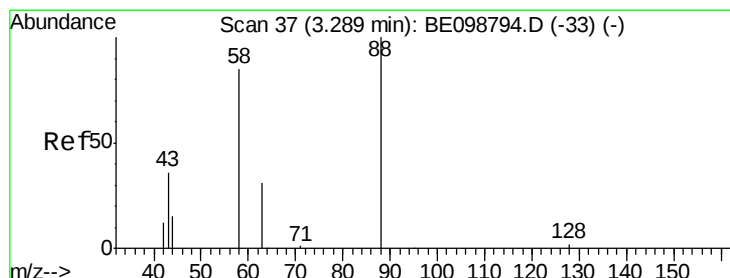
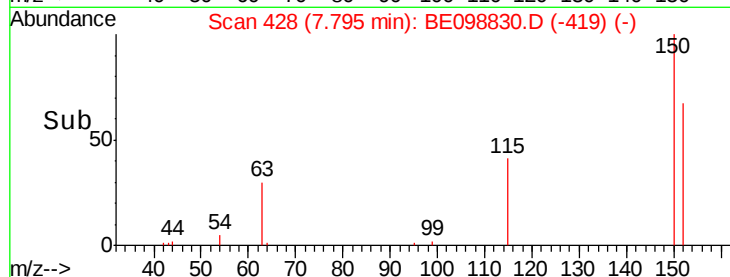
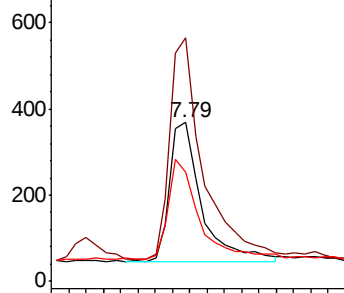
115 68.3 57.4 86.2



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: 0.365 ng

RT: 3.28 min Scan# 36

Delta R.T. -0.01 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

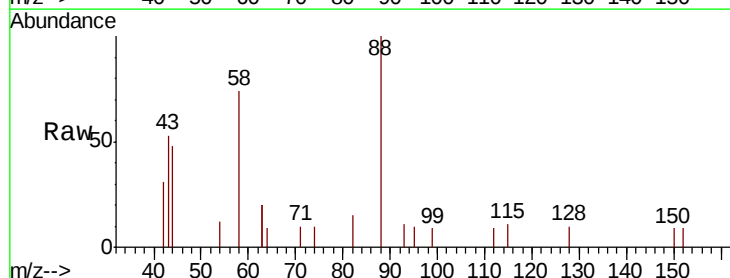
Tgt Ion: 88 Resp: 615

Ion Ratio Lower Upper

88 100

58 96.1 75.8 113.6

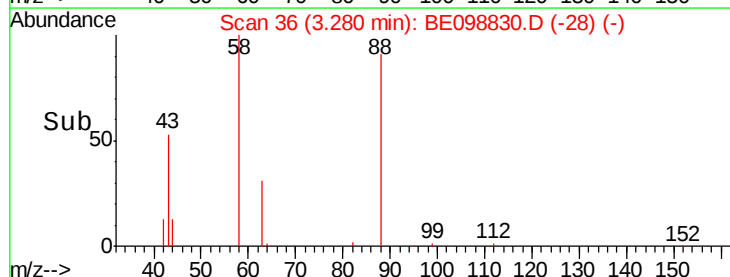
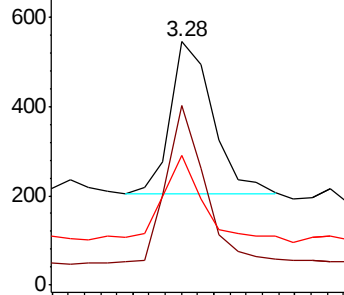
43 51.1 41.8 62.8



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: 0.305 ng

RT: 3.63 min Scan# 66

Delta R.T. 0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

Instrument :

BNA\_E

ClientSampleId :

PB117716BS

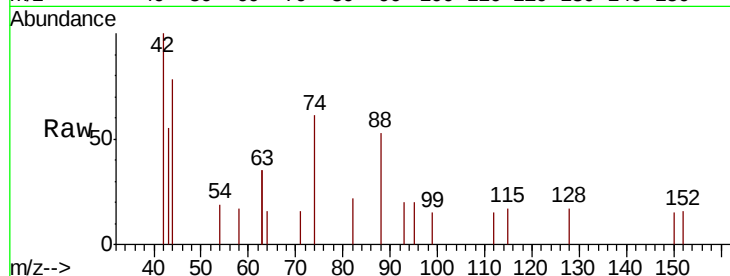
Tot Ion: 42 Resp: 654

Ion Ratio Lower Upper

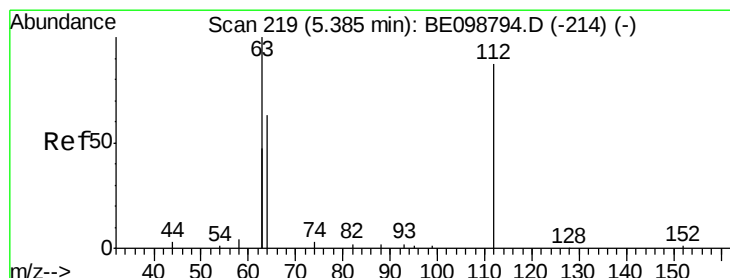
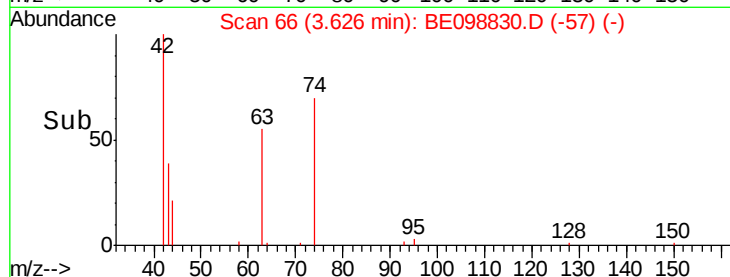
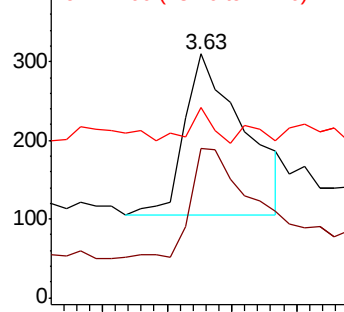
42 100

74 68.0 57.0 85.4

44 8.9 0.0 0.0#



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: 0.358 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

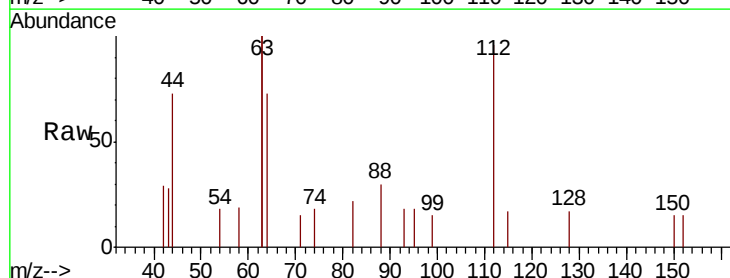
Tgt Ion: 112 Resp: 911

Ion Ratio Lower Upper

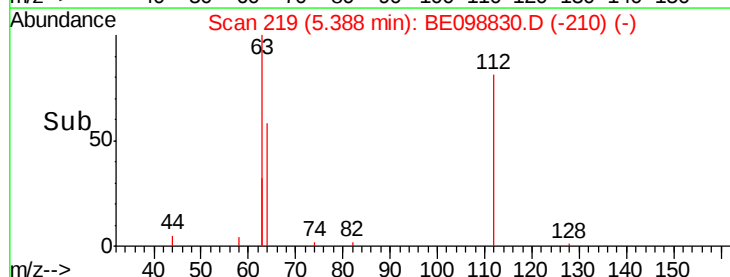
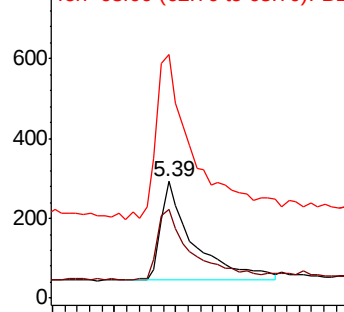
112 100

64 75.5 57.9 86.9

63 205.7 158.3 237.5



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: 0.359 ng

RT: 6.99 min Scan# 358

Delta R.T. 0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

Instrument :

BNA\_E

ClientSampleId :

PB117716BS

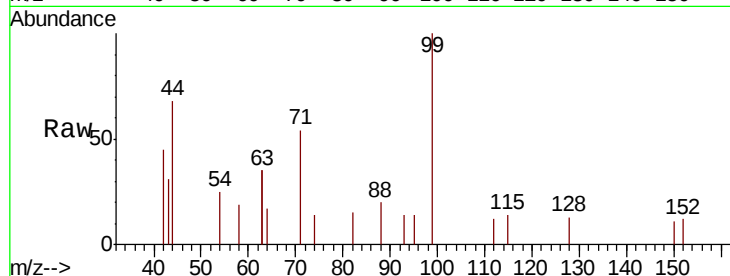
Tot Ion: 99 Resp: 1289

Ion Ratio Lower Upper

99 100

42 34.6 24.2 36.2

71 48.9 35.7 53.5



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

6.99

400

300

200

100

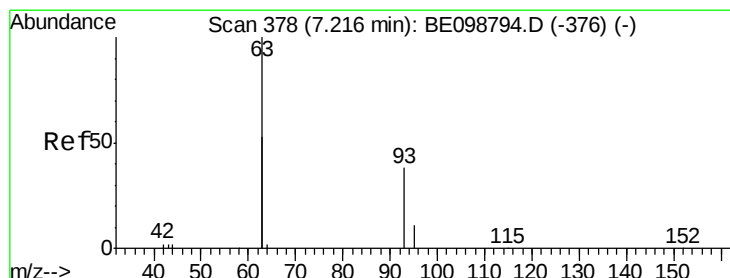
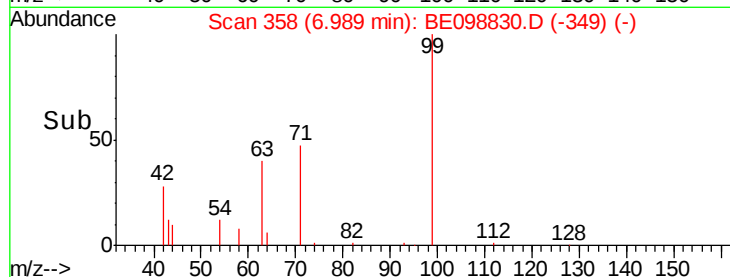
0

6.80

7.00

7.20

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.333 ng

RT: 7.22 min Scan# 378

Delta R.T. 0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

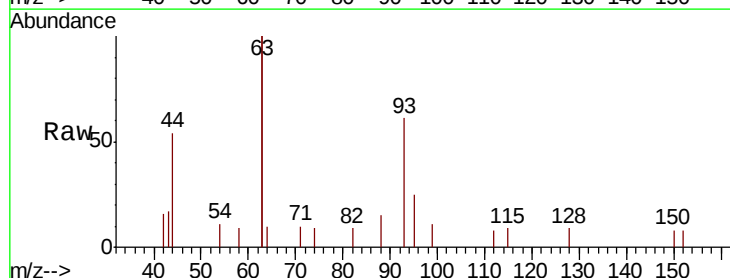
Tgt Ion: 93 Resp: 924

Ion Ratio Lower Upper

93 100

63 307.8 247.5 371.3

95 31.3 21.8 32.8



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

1500

1000

500

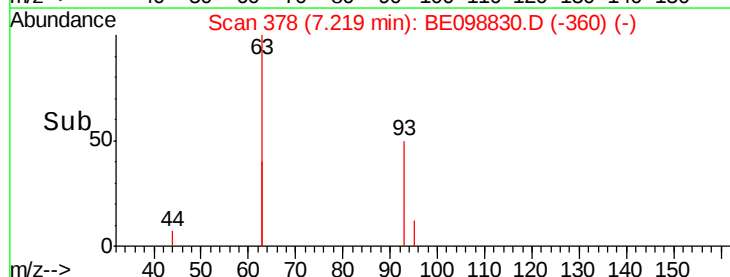
0

7.20

7.30

7.40

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.59 min Scan# 648

Delta R.T. -0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

Instrument :

BNA\_E

ClientSampleId :

PB117716BS

Tot Ion:136 Resp: 3501

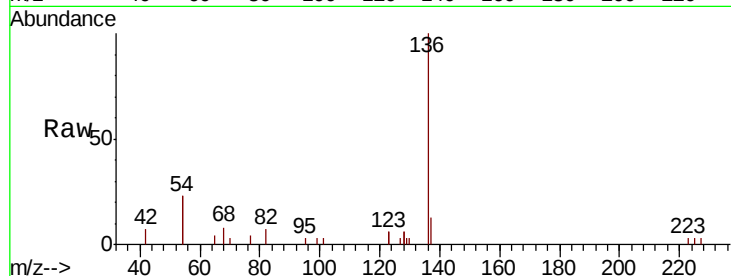
Ion Ratio Lower Upper

136 100

137 13.1 11.4 17.0

54 46.6 39.3 58.9

68 7.9 6.7 10.1

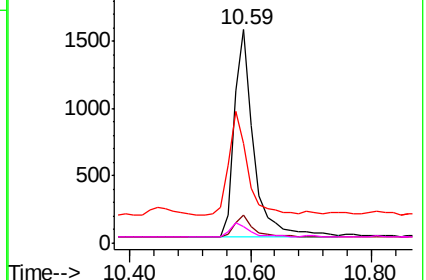
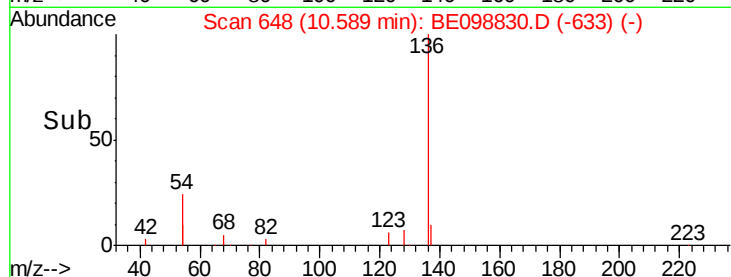


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.347 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

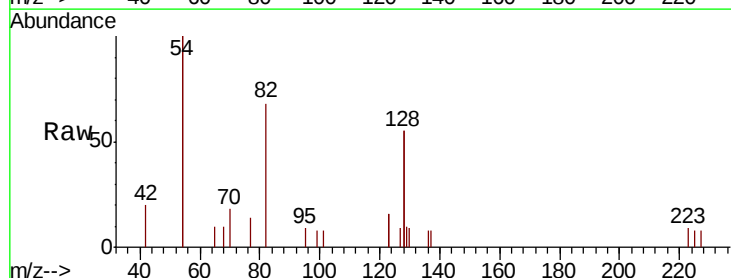
Tgt Ion: 82 Resp: 1273

Ion Ratio Lower Upper

82 100

128 162.0 123.8 185.8

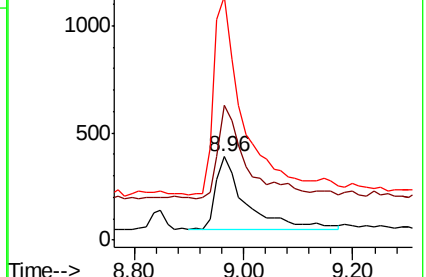
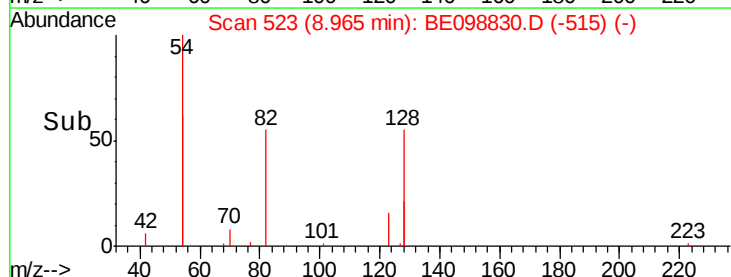
54 292.0 203.4 305.2

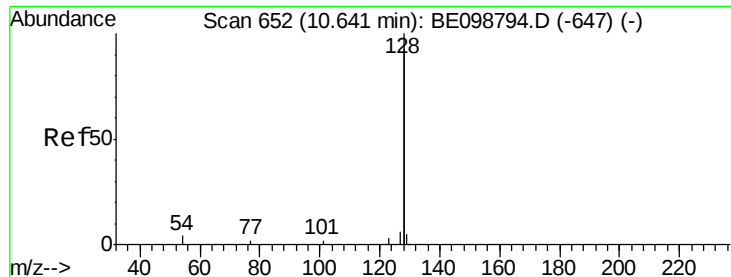


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

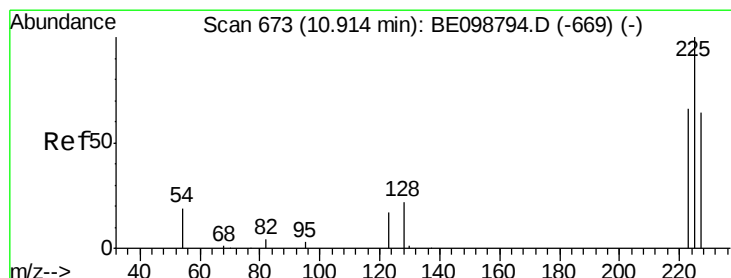
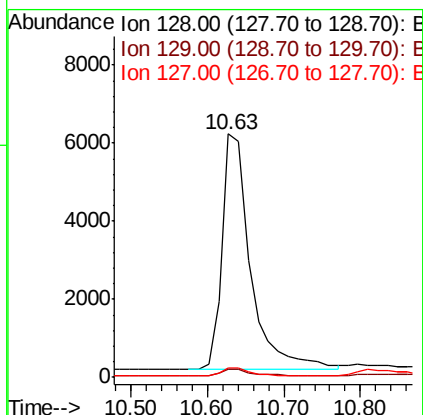
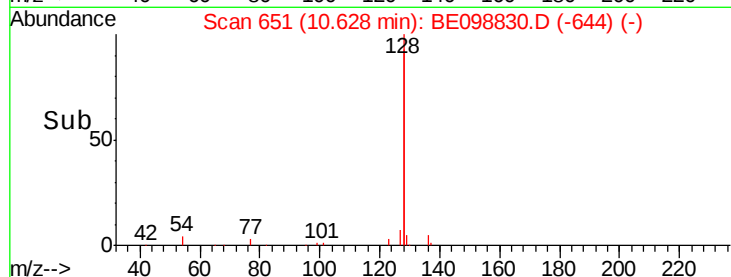
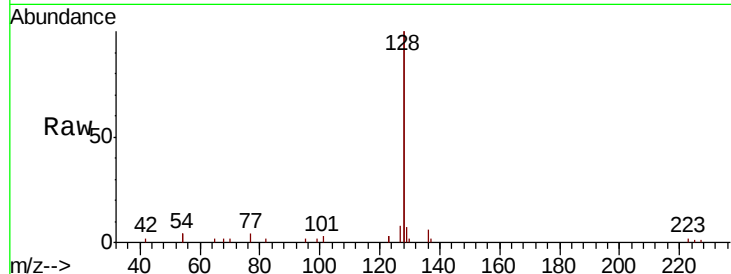




#9  
Naphthalene  
Concen: 0.393 ng  
RT: 10.63 min Scan# 651  
Delta R.T. -0.01 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

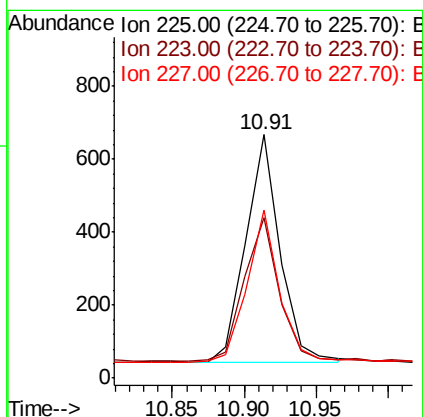
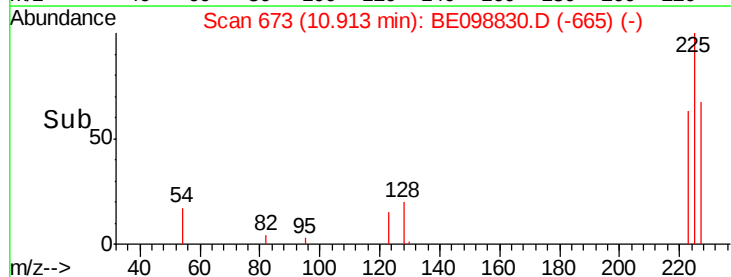
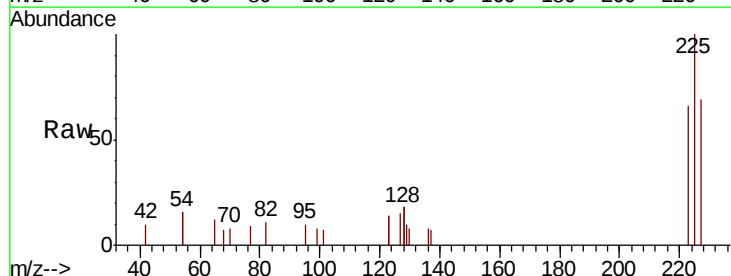
Instrument :  
BNA\_E  
ClientSampleId :  
PB117716BS

|     |         |       |       |
|-----|---------|-------|-------|
| Tot | Ion:128 | Resp: | 15773 |
| Ion | Ratio   | Lower | Upper |
| 128 | 100     |       |       |
| 129 | 3.5     | 2.6   | 4.0   |
| 127 | 4.1     | 3.1   | 4.7   |



#10  
Hexachlorobutadiene  
Concen: 0.387 ng  
RT: 10.91 min Scan# 673  
Delta R.T. -0.00 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

|             |             |
|-------------|-------------|
| Tgt Ion:225 | Resp: 1027  |
| Ion Ratio   | Lower Upper |
| 225 100     |             |
| 223 65.2    | 51.1 76.7   |
| 227 63.9    | 51.6 77.4   |





#11

2-Methylnaphthalene-d10

Concen: 0.395 ng

RT: 12.19 min Scan# 762

Delta R.T. 0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

Instrument :

BNA\_E

ClientSampleId :

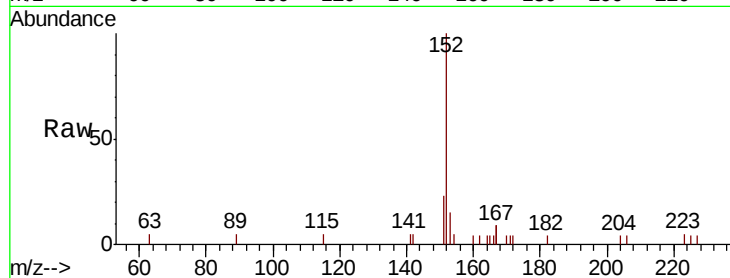
PB117716BS

Tot Ion:152 Resp: 2556

Ion Ratio Lower Upper

152 100

151 19.9 16.5 24.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

1200

1000

800

600

400

200

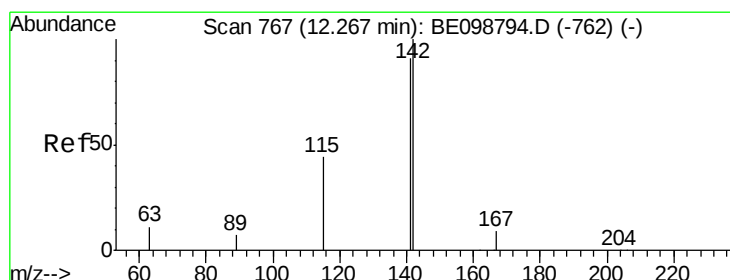
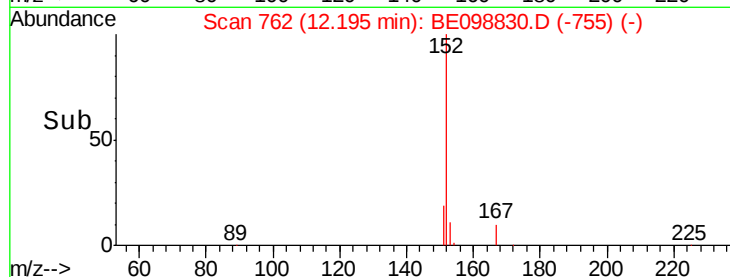
0

12.19

12.20

12.40

Time-->



#12

2-Methylnaphthalene

Concen: 0.390 ng

RT: 12.27 min Scan# 767

Delta R.T. 0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

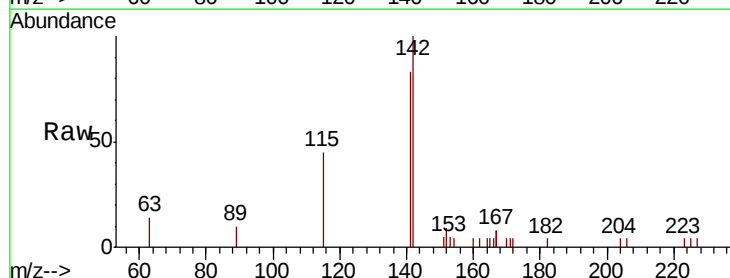
Tgt Ion:142 Resp: 2535

Ion Ratio Lower Upper

142 100

141 83.0 72.6 108.8

115 45.1 37.4 56.2



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

1500

1000

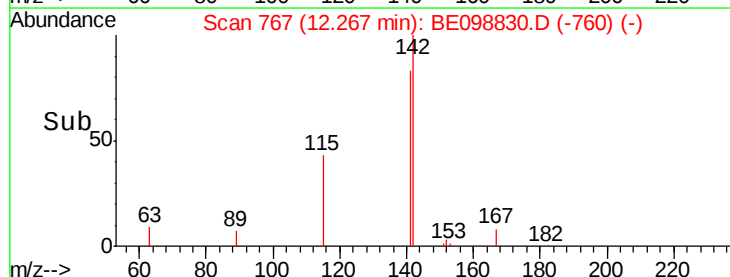
500

0

12.27

12.30

Time-->

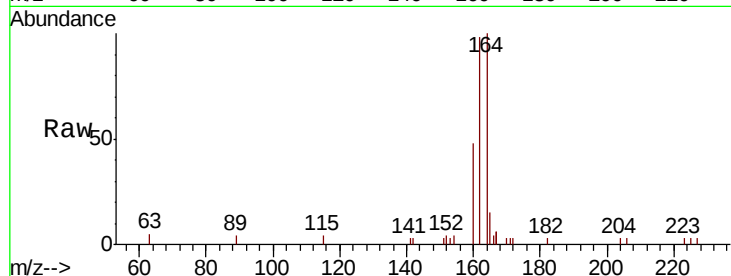




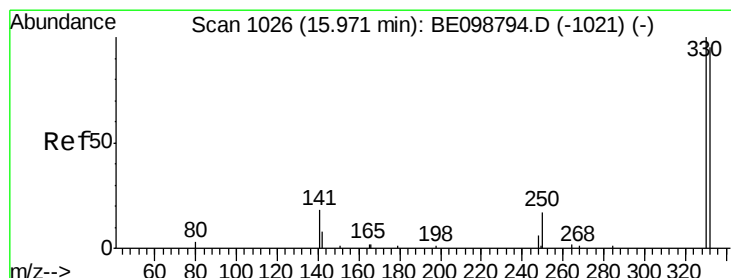
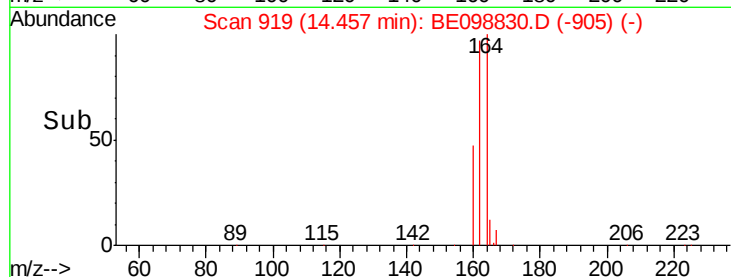
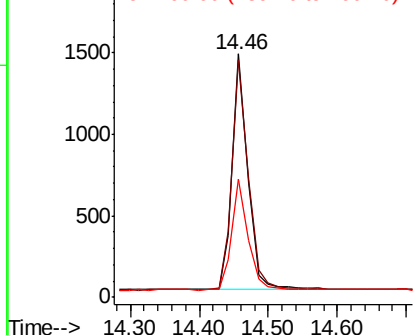
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.46 min Scan# 919  
Delta R.T. 0.00 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

Instrument :  
BNA\_E  
ClientSampleId :  
PB117716BS

Tot Ion:164 Resp: 2283  
Ion Ratio Lower Upper  
164 100  
162 97.5 80.2 120.2  
160 48.3 37.8 56.8

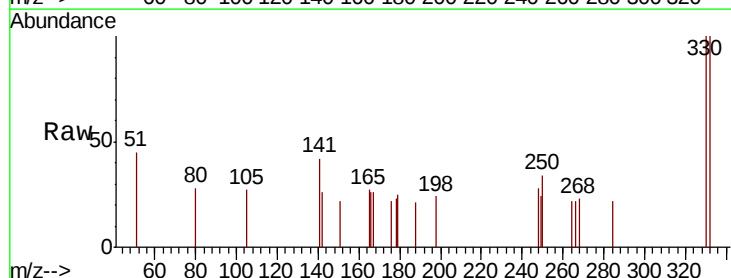


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

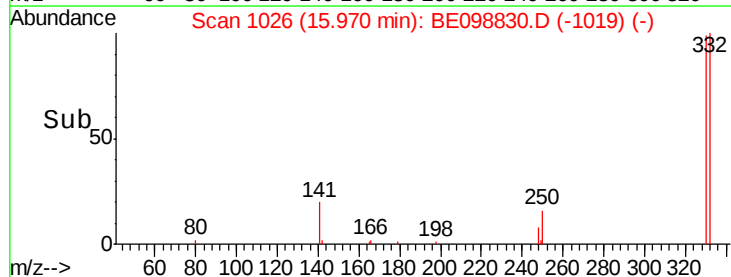
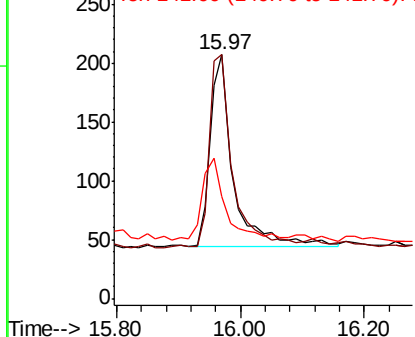


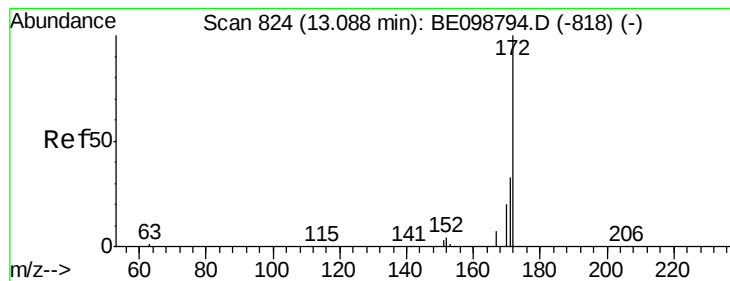
#14  
2,4,6-Tribromophenol  
Concen: 0.369 ng  
RT: 15.97 min Scan# 1026  
Delta R.T. -0.00 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

Tgt Ion:330 Resp: 425  
Ion Ratio Lower Upper  
330 100  
332 98.4 77.6 116.4  
141 39.8 31.0 46.4



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

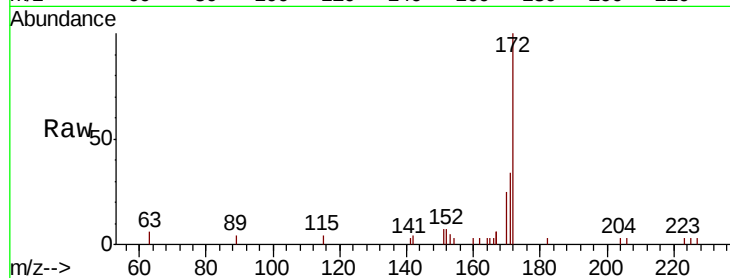




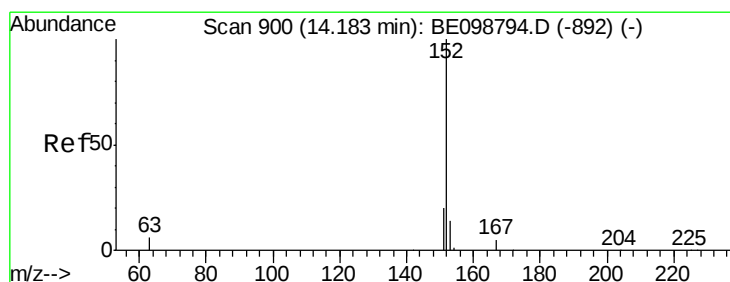
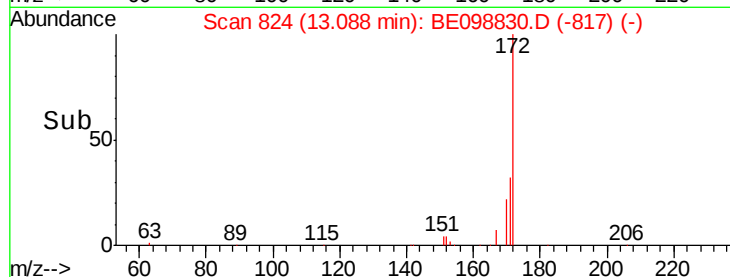
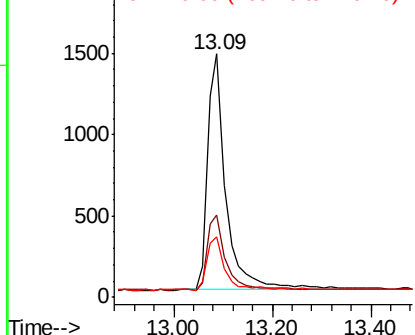
#15  
2-Fluorobiphenyl  
Concen: 0.395 ng  
RT: 13.09 min Scan# 824  
Delta R.T. 0.00 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

Instrument :  
BNA\_E  
ClientSampleId :  
PB117716BS

Tot Ion:172 Resp: 3731  
Ion Ratio Lower Upper  
172 100  
171 33.8 28.0 42.0  
170 24.8 17.7 26.5

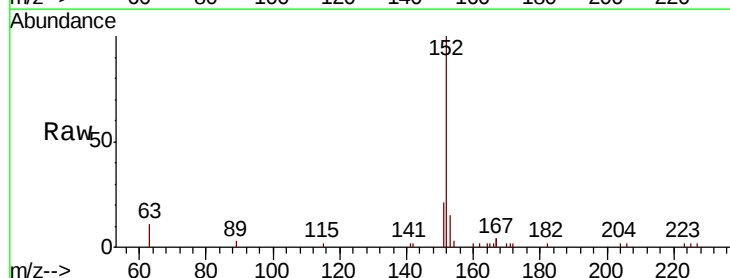


Abundance Ion 172.00 (171.70 to 172.70): E  
2000 Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

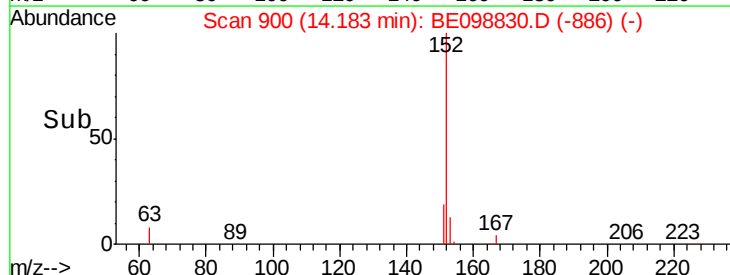
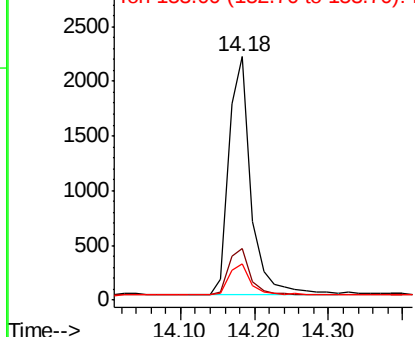


#16  
Acenaphthylene  
Concen: 0.387 ng  
RT: 14.18 min Scan# 900  
Delta R.T. 0.00 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

Tgt Ion:152 Resp: 4540  
Ion Ratio Lower Upper  
152 100  
151 20.2 17.0 25.6  
153 13.5 11.2 16.8



Abundance Ion 152.00 (151.70 to 152.70): E  
3000 Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E

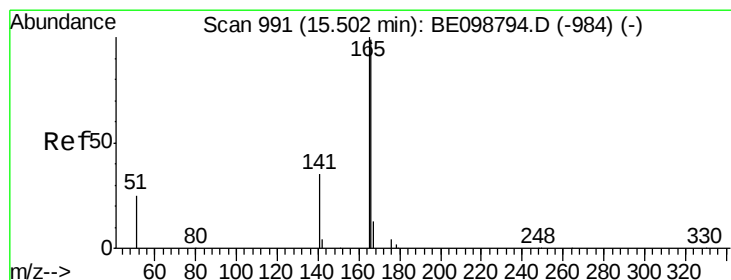
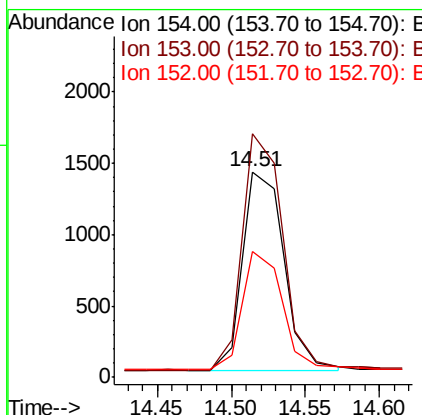
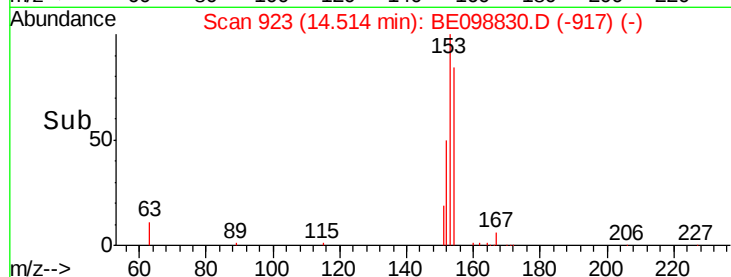
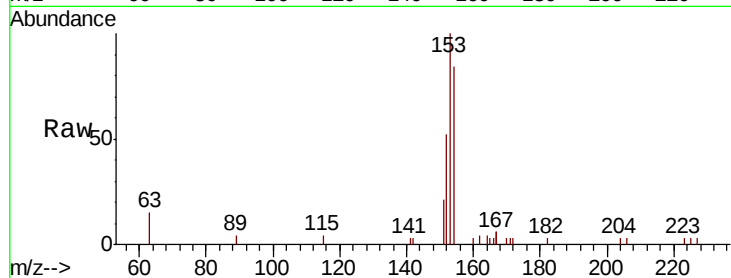




#17  
Acenaphthene  
Concen: 0.392 ng  
RT: 14.51 min Scan# 923  
Delta R.T. -0.01 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

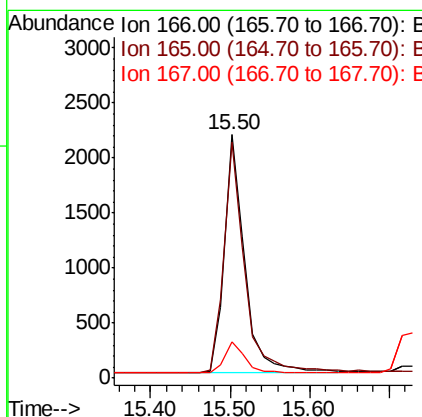
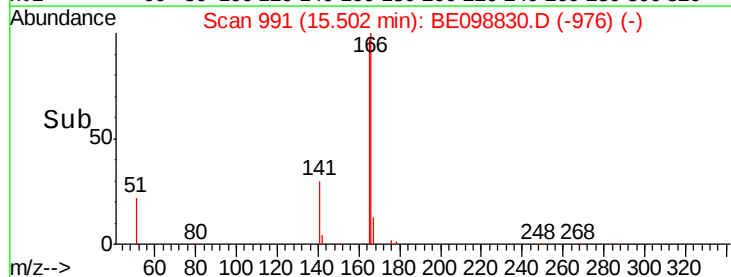
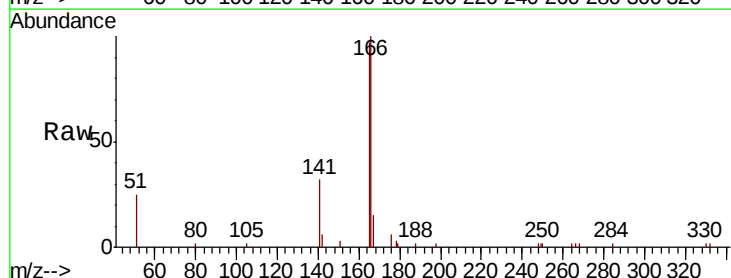
Instrument :  
BNA\_E  
ClientSampleId :  
PB117716BS

Tot Ion:154 Resp: 2732  
Ion Ratio Lower Upper  
154 100  
153 117.1 94.2 141.4  
152 57.8 45.0 67.4



#18  
Fluorene  
Concen: 0.386 ng  
RT: 15.50 min Scan# 991  
Delta R.T. -0.00 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

Tgt Ion:166 Resp: 3881  
Ion Ratio Lower Upper  
166 100  
165 98.8 79.3 118.9  
167 13.8 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.22 min Scan# 1119

Delta R.T. -0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

Instrument :

BNA\_E

ClientSampleId :

PB117716BS

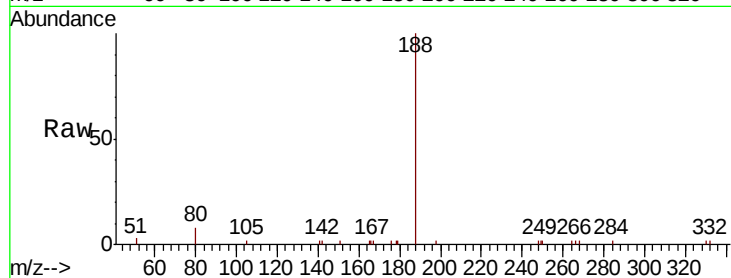
Tot Ion:188 Resp: 5985

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

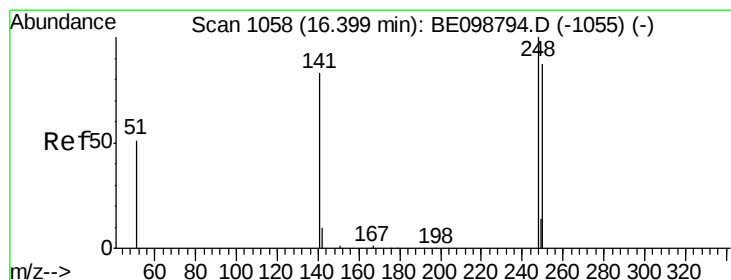
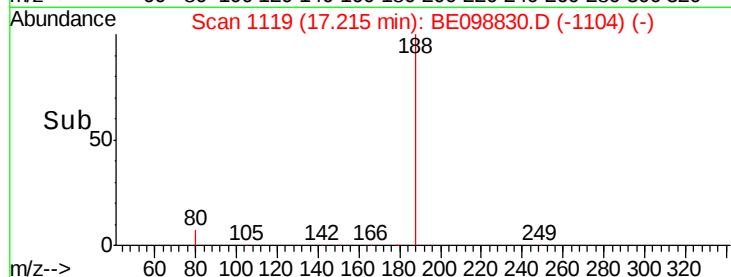
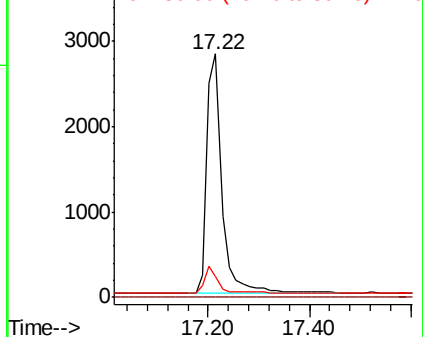
80 8.3 6.3 9.5



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: 0.357 ng

RT: 16.40 min Scan# 1058

Delta R.T. -0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

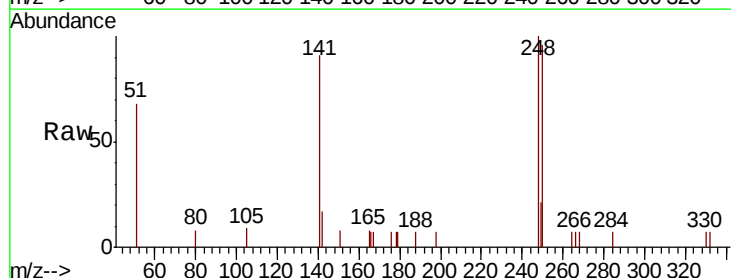
Tgt Ion:248 Resp: 1157

Ion Ratio Lower Upper

248 100

250 95.7 70.6 105.8

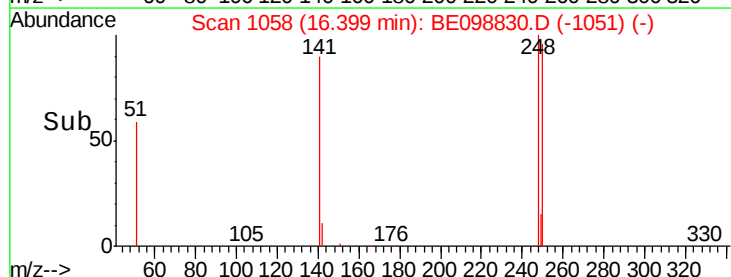
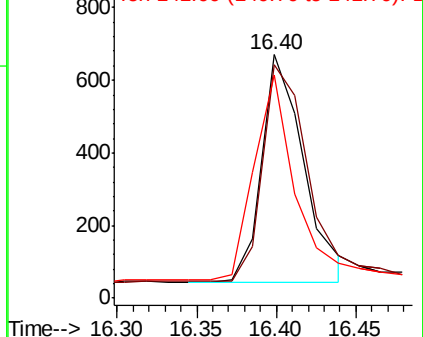
141 91.4 68.6 102.8



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

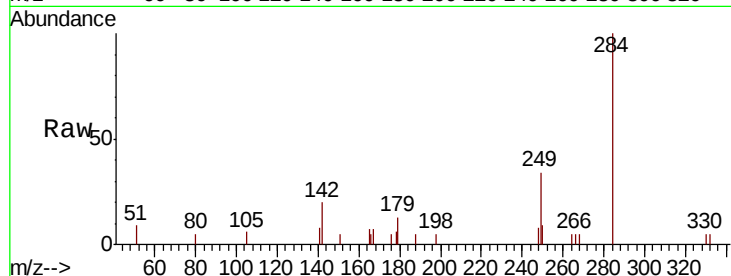




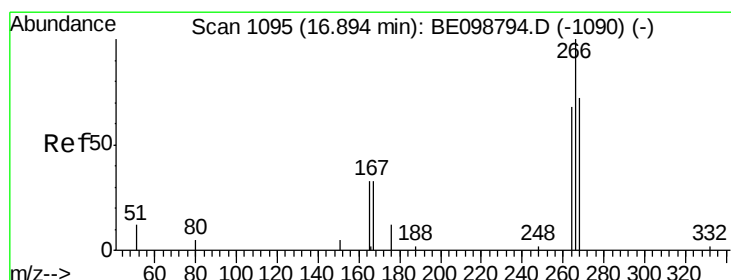
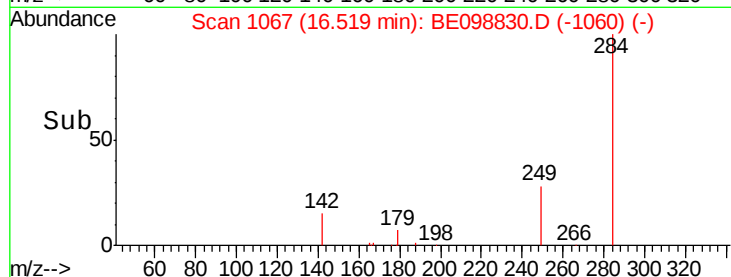
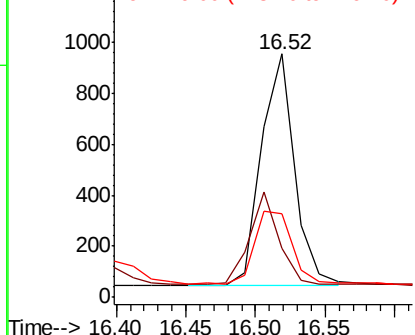
#21  
Hexachlorobenzene  
Concen: 0.390 ng  
RT: 16.52 min Scan# 1067  
Delta R.T. -0.00 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

Instrument :  
BNA\_E  
ClientSampleId :  
PB117716BS

Tot Ion:284 Resp: 1504  
Ion Ratio Lower Upper  
284 100  
142 35.0 28.7 43.1  
249 35.2 29.6 44.4

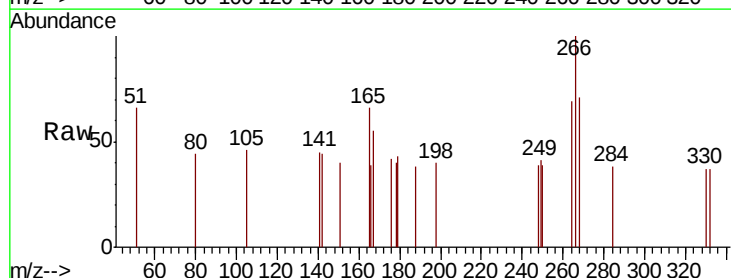


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

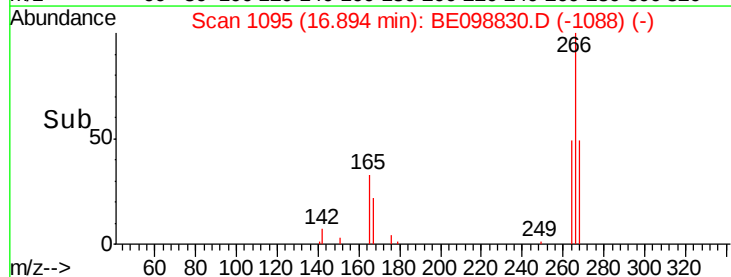
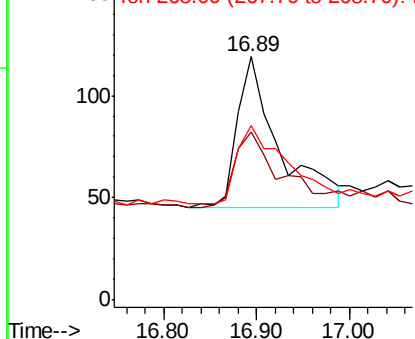


#22  
Pentachlorophenol  
Concen: 0.442 ng  
RT: 16.89 min Scan# 1095  
Delta R.T. -0.00 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

Tgt Ion:266 Resp: 233  
Ion Ratio Lower Upper  
266 100  
264 68.9 66.6 100.0  
268 71.4 69.8 104.8



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

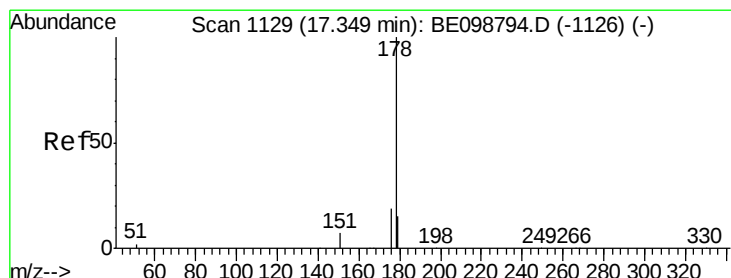
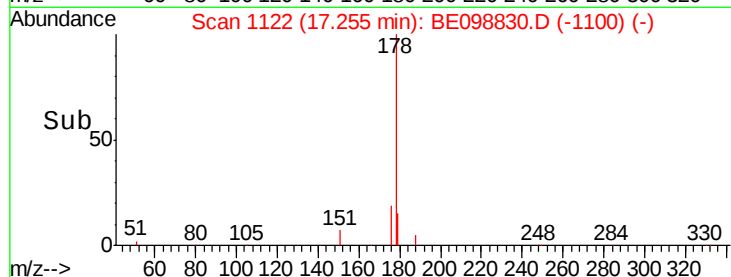
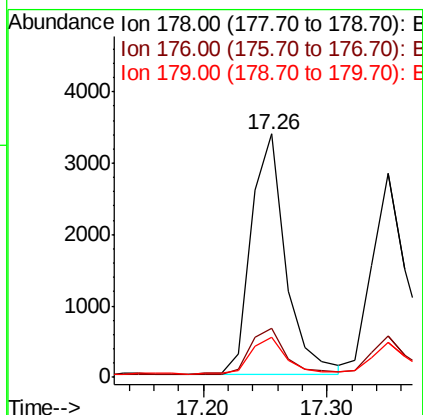
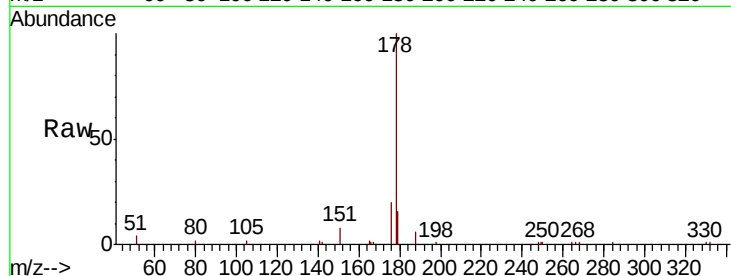




#23  
Phenanthrene  
Concen: 0.379 ng  
RT: 17.26 min Scan# 1122  
Delta R.T. -0.00 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

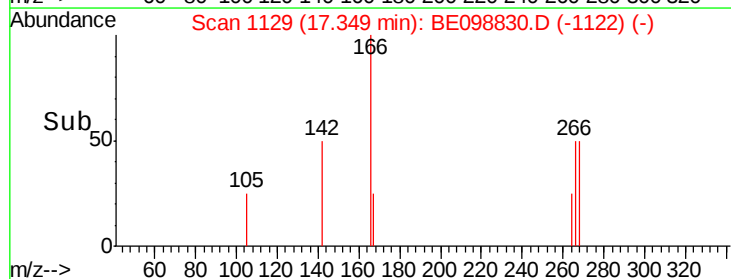
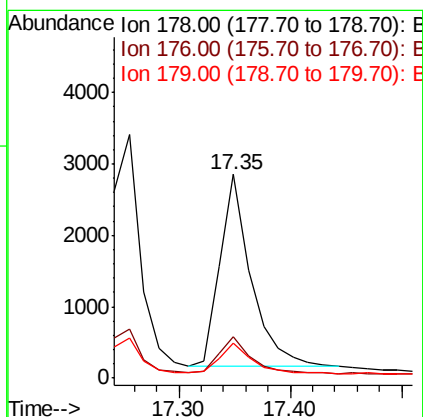
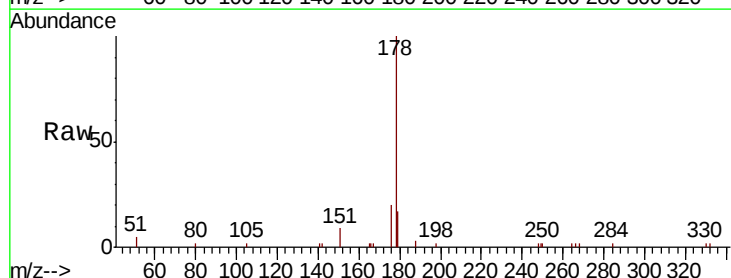
Instrument :  
BNA\_E  
ClientSampleId :  
PB117716BS

Tot Ion:178 Resp: 6456  
Ion Ratio Lower Upper  
178 100  
176 19.4 16.0 24.0  
179 15.6 12.1 18.1



#24  
Anthracene  
Concen: 0.365 ng  
RT: 17.35 min Scan# 1129  
Delta R.T. -0.00 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

Tgt Ion:178 Resp: 5303  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.0  
179 15.7 12.2 18.4





#25

Fluoranthene-d10

Concen: 0.361 ng

RT: 19.24 min Scan# 1388

Delta R.T. -0.01 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

Instrument :

BNA\_E

ClientSampleId :

PB117716BS

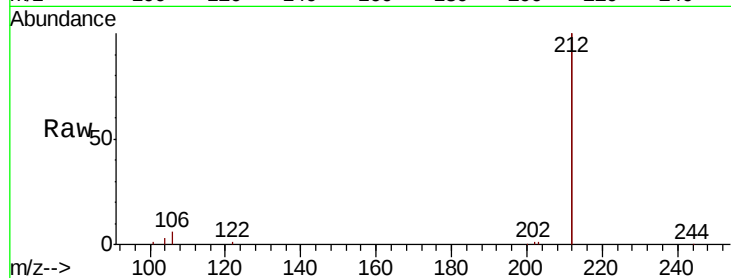
Tot Ion:212 Resp: 34443

Ion Ratio Lower Upper

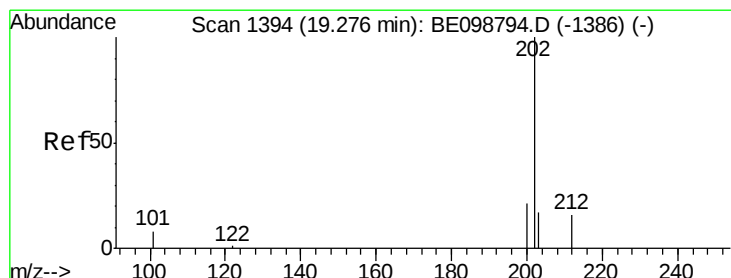
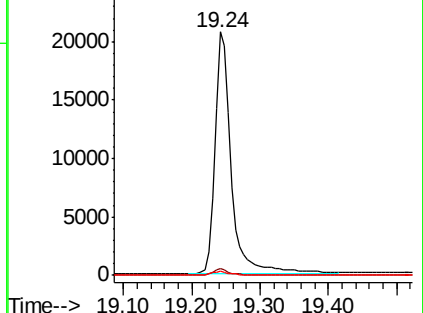
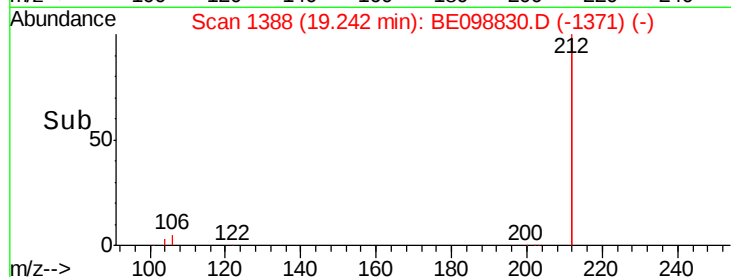
212 100

106 2.4 1.8 2.8

104 1.3 1.0 1.6



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: 0.366 ng

RT: 19.28 min Scan# 1394

Delta R.T. 0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

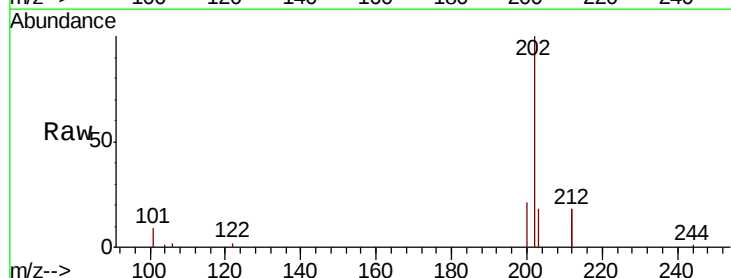
Tgt Ion:202 Resp: 8796

Ion Ratio Lower Upper

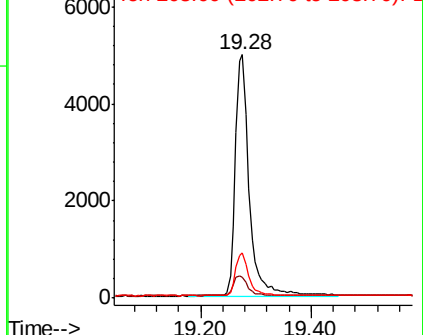
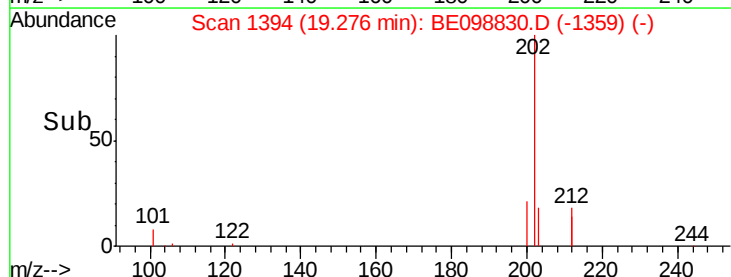
202 100

101 9.1 7.3 10.9

203 16.9 13.4 20.2



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

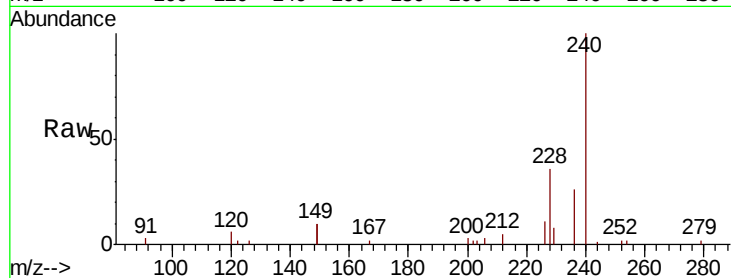




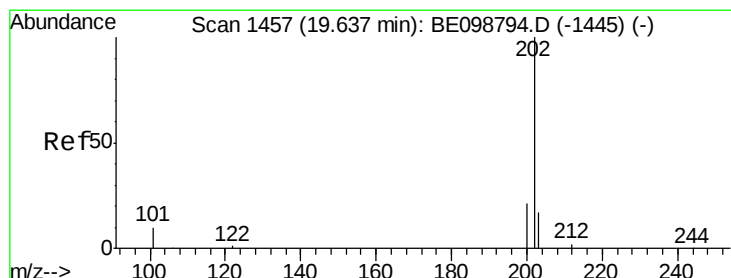
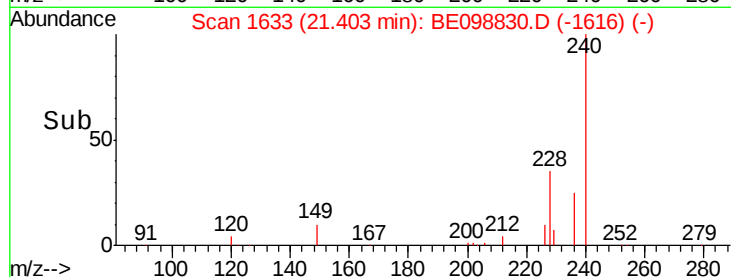
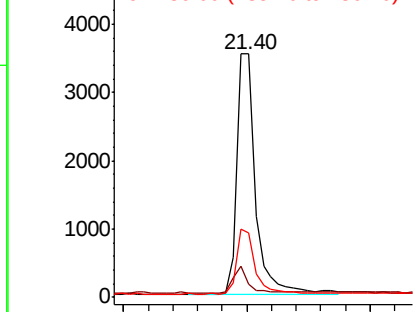
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.40 min Scan# 1633  
Delta R.T. 0.00 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

Instrument :  
BNA\_E  
ClientSampleId :  
PB117716BS

Tot Ion:240 Resp: 7313  
Ion Ratio Lower Upper  
240 100  
120 5.7 5.0 7.4  
236 26.2 22.7 34.1

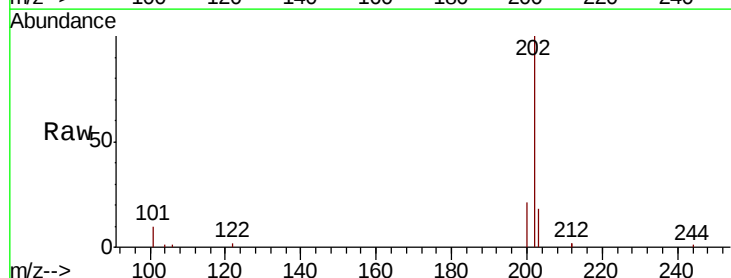


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

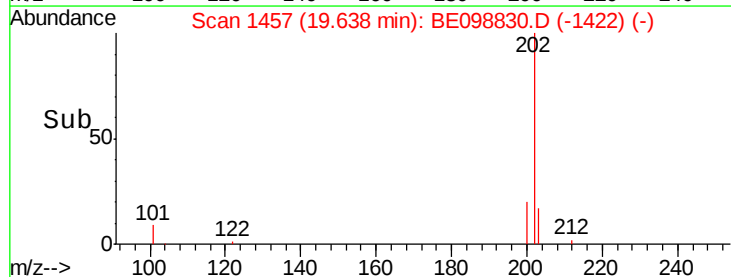
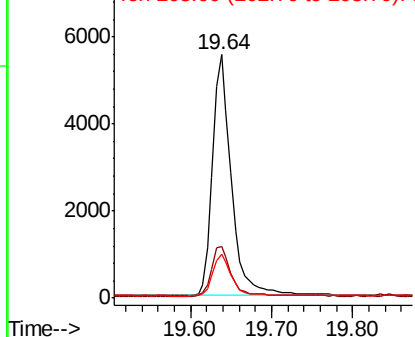


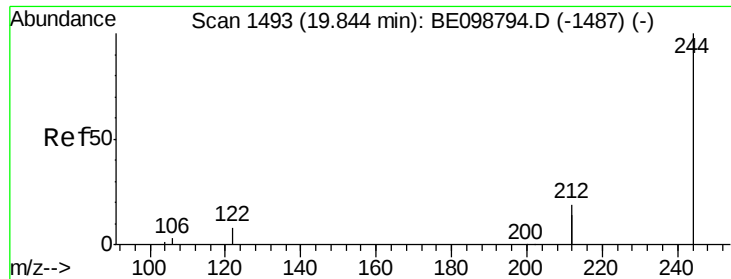
#28  
Pyrene  
Concen: 0.402 ng  
RT: 19.64 min Scan# 1457  
Delta R.T. 0.00 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

Tgt Ion:202 Resp: 8996  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.0 25.6  
203 17.6 14.2 21.2



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

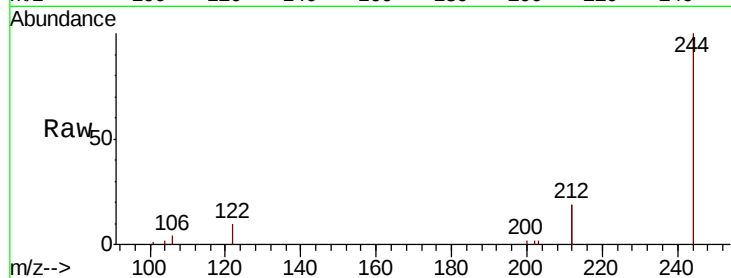




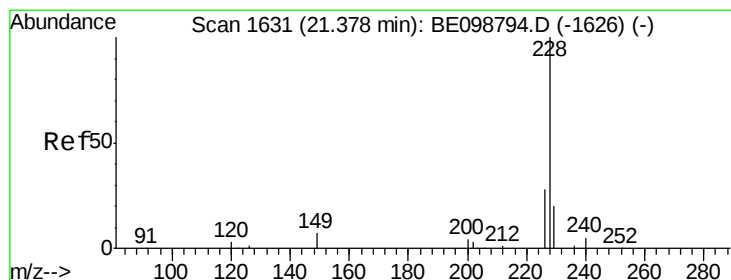
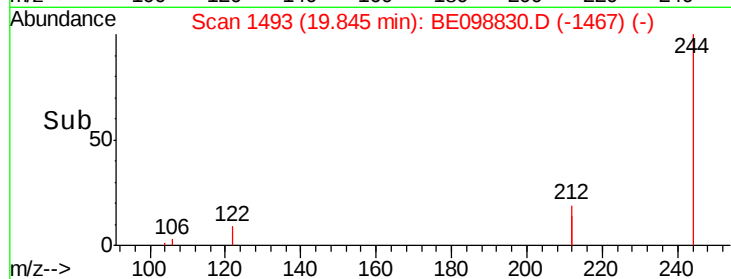
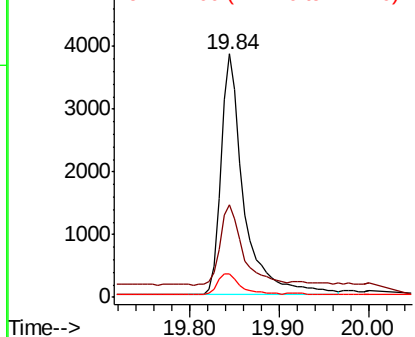
#29  
 Terphenyl-d14  
 Concen: 0.382 ng  
 RT: 19.84 min Scan# 1493  
 Delta R.T. 0.00 min  
 Lab File: BE098830.D  
 Acq: 8 Mar 2019 10:03

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB117716BS

Tot Ion:244 Resp: 6785  
 Ion Ratio Lower Upper  
 244 100  
 212 37.9 29.4 44.2  
 122 9.8 7.1 10.7

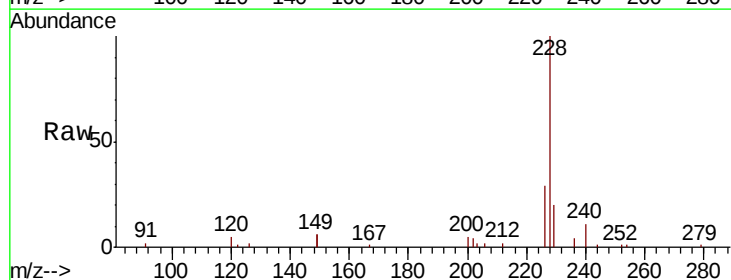


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E

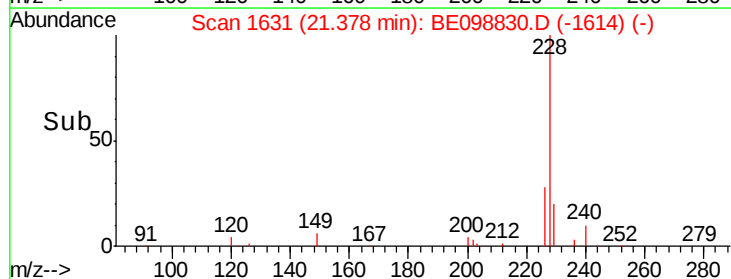
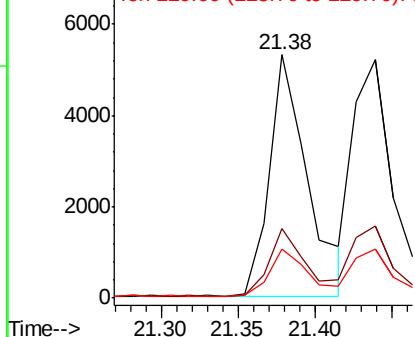


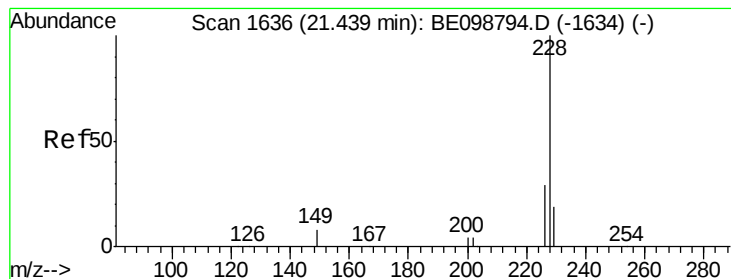
#30  
 Benzo(a)anthracene  
 Concen: 0.400 ng  
 RT: 21.38 min Scan# 1631  
 Delta R.T. 0.00 min  
 Lab File: BE098830.D  
 Acq: 8 Mar 2019 10:03

Tgt Ion:228 Resp: 9140  
 Ion Ratio Lower Upper  
 228 100  
 226 28.7 23.0 34.4  
 229 20.3 16.5 24.7



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: 0.374 ng

RT: 21.44 min Scan# 1636

Delta R.T. 0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

Instrument :

BNA\_E

ClientSampleId :

PB117716BS

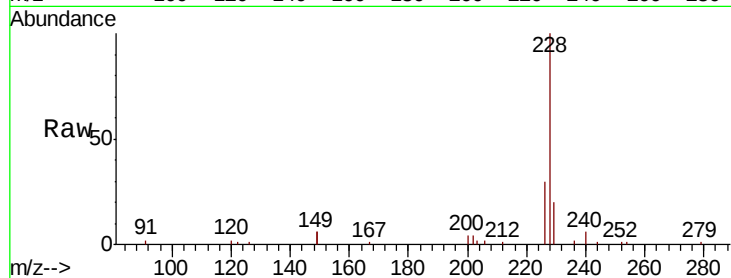
Tot Ion:228 Resp: 9137

Ion Ratio Lower Upper

228 100

226 30.0 23.7 35.5

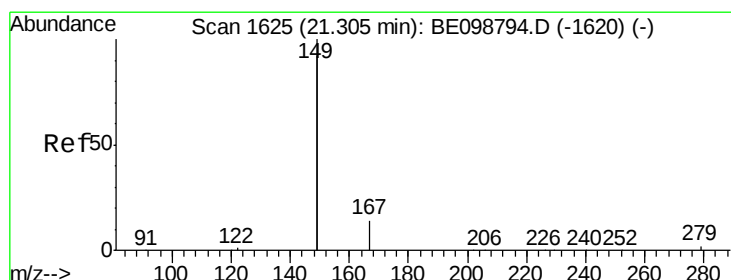
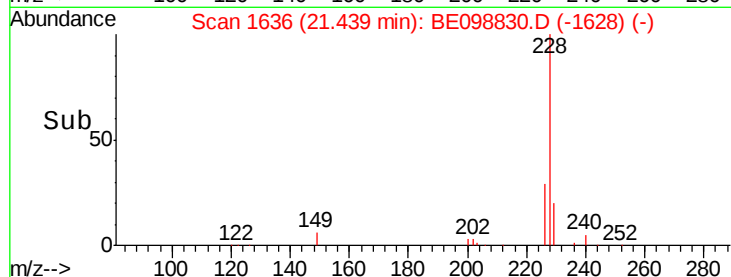
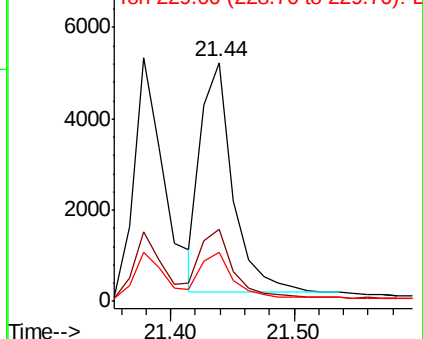
229 20.3 16.1 24.1



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: 0.331 ng

RT: 21.29 min Scan# 1624

Delta R.T. -0.01 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

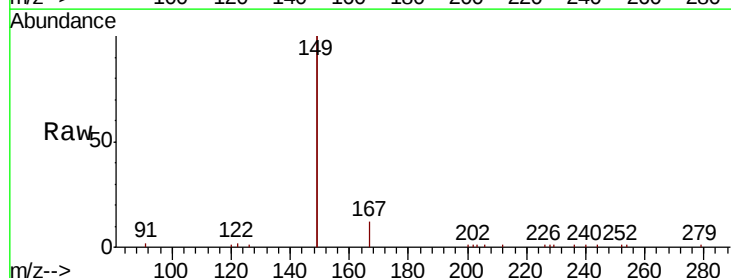
Tgt Ion:149 Resp: 16097

Ion Ratio Lower Upper

149 100

167 6.7 5.4 8.0

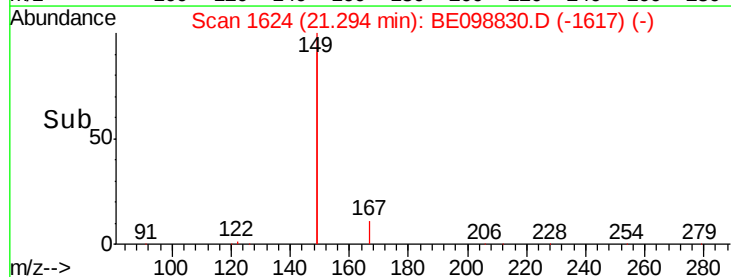
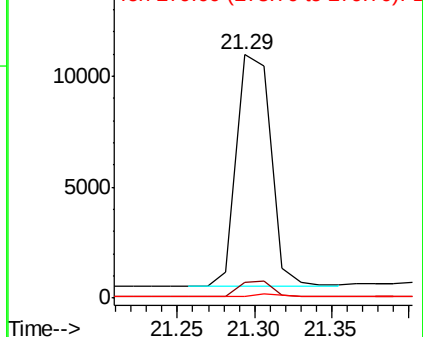
279 1.2 1.0 1.4



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

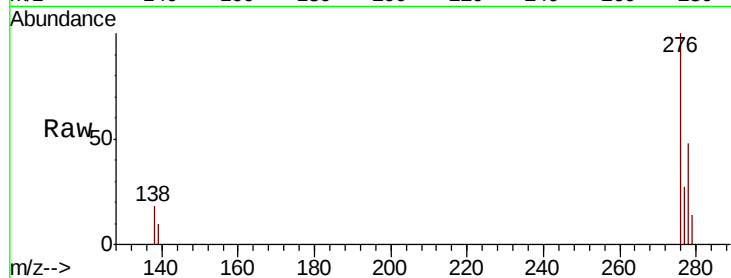




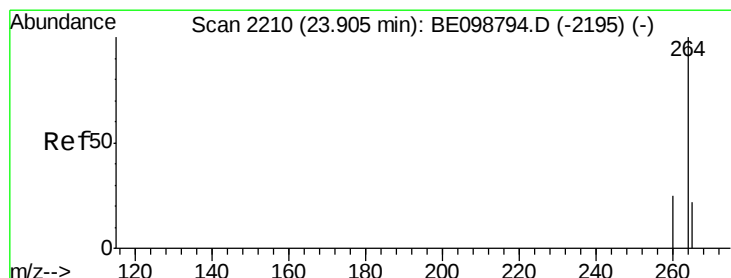
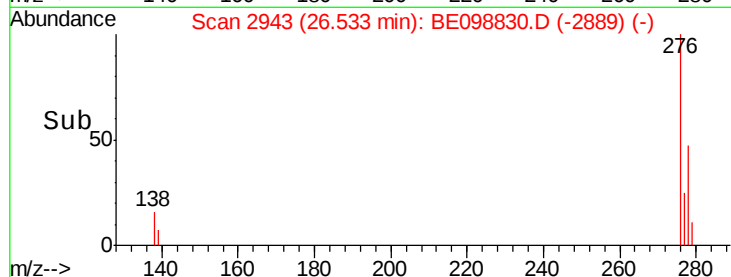
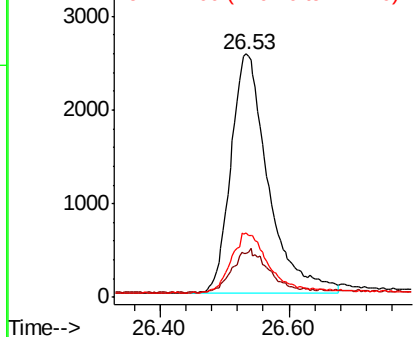
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.399 ng  
 RT: 26.53 min Scan# 2943  
 Delta R.T. -0.01 min  
 Lab File: BE098830.D  
 Acq: 8 Mar 2019 10:03

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB117716BS

Tot Ion:276 Resp: 10291  
 Ion Ratio Lower Upper  
 276 100  
 138 17.4 13.8 20.8  
 277 24.9 19.5 29.3

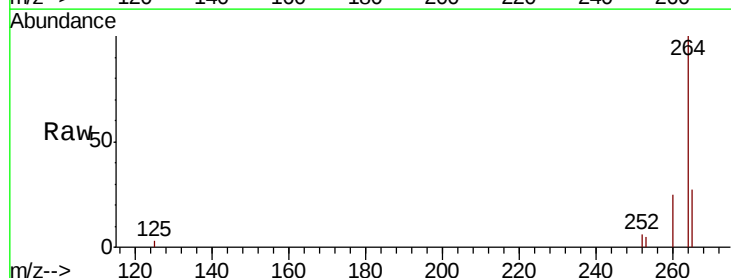


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

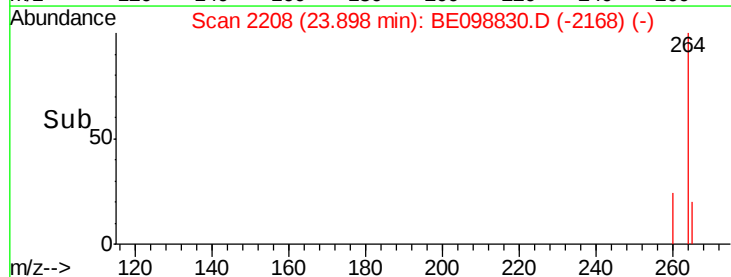
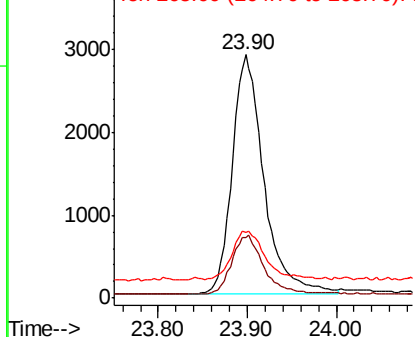


#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.90 min Scan# 2208  
 Delta R.T. -0.01 min  
 Lab File: BE098830.D  
 Acq: 8 Mar 2019 10:03

Tgt Ion:264 Resp: 7151  
 Ion Ratio Lower Upper  
 264 100  
 260 24.9 21.2 31.8  
 265 27.2 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: 0.386 ng

RT: 23.13 min Scan# 1992

Delta R.T. -0.00 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

Instrument :

BNA\_E

ClientSampleId :

PB117716BS

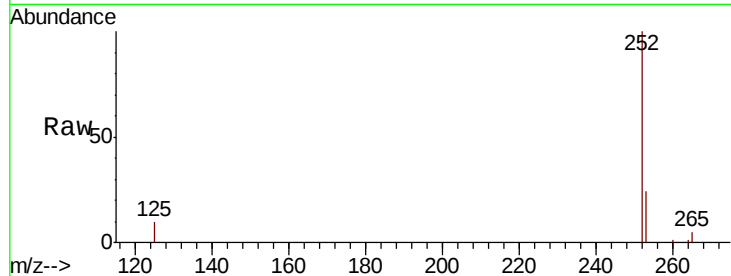
Tot Ion:252 Resp: 9085

Ion Ratio Lower Upper

252 100

253 24.2 18.2 27.2

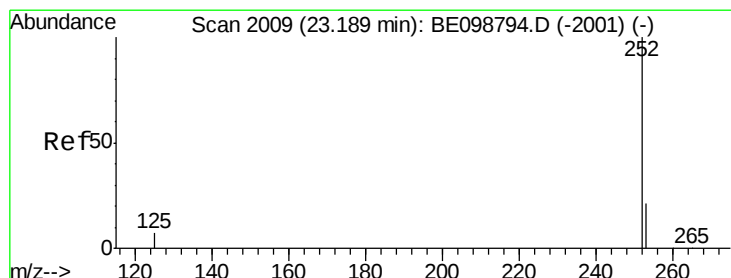
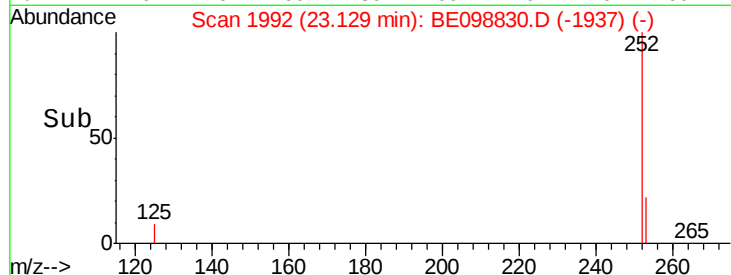
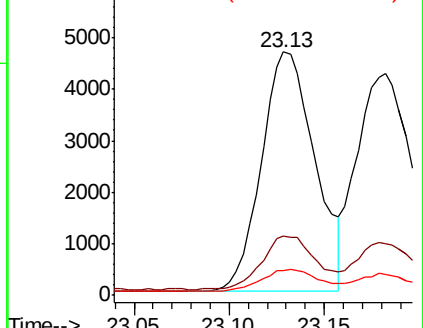
125 10.2 7.3 10.9



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: 0.386 ng

RT: 23.18 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

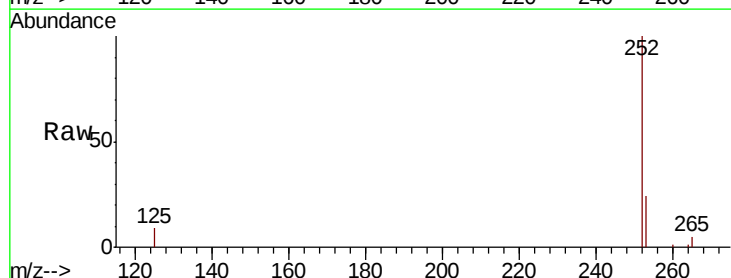
Tgt Ion:252 Resp: 9503

Ion Ratio Lower Upper

252 100

253 23.5 19.3 28.9

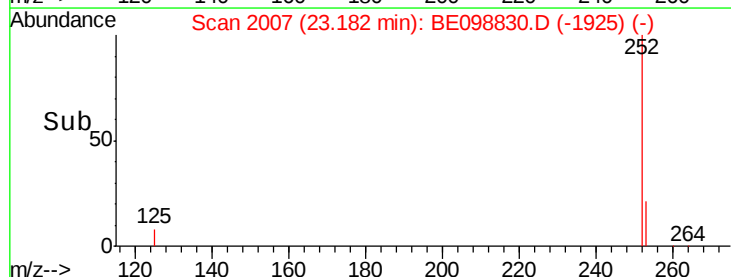
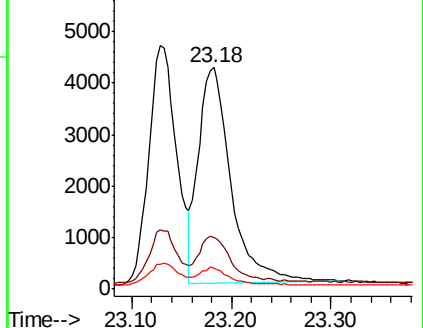
125 9.2 7.5 11.3



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

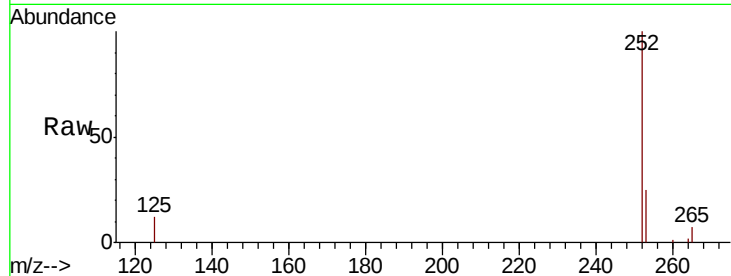




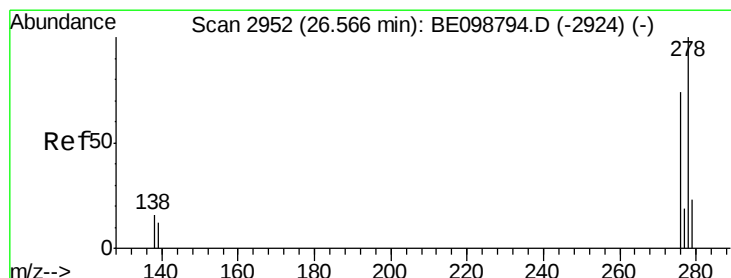
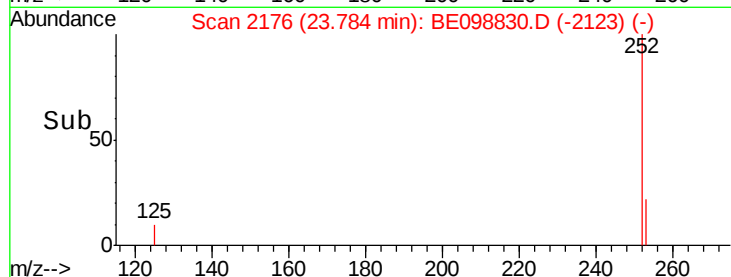
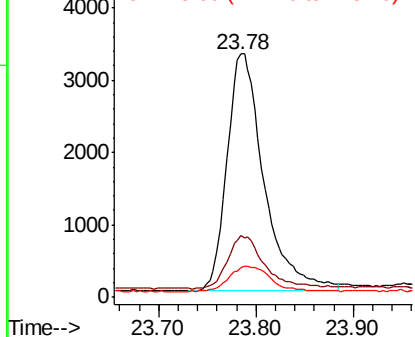
#37  
Benzo(a)pyrene  
Concen: 0.387 ng  
RT: 23.78 min Scan# 2176  
Delta R.T. -0.01 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

Instrument :  
BNA\_E  
ClientSampleId :  
PB117716BS

Tot Ion:252 Resp: 8726  
Ion Ratio Lower Upper  
252 100  
253 25.3 19.9 29.9  
125 12.2 9.0 13.4

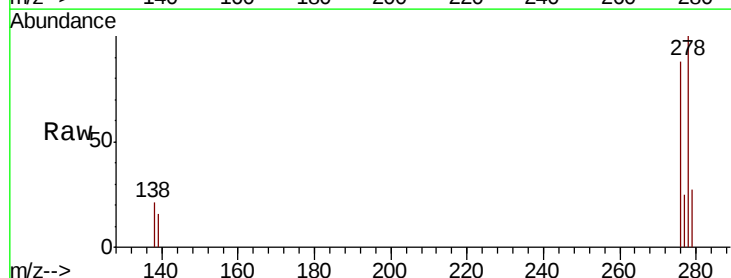


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

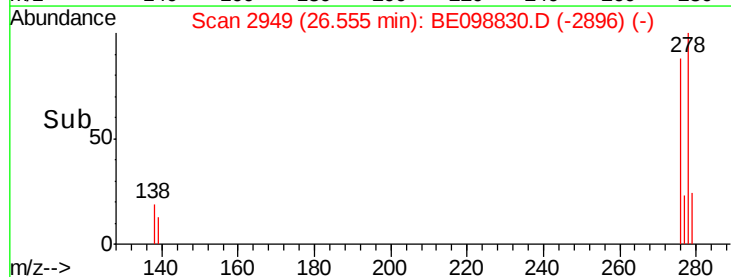
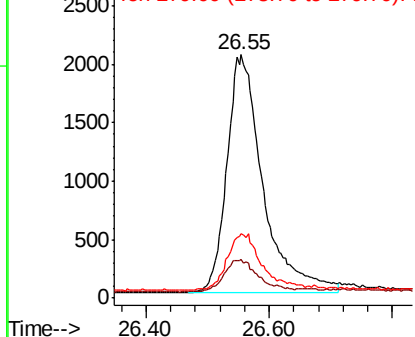


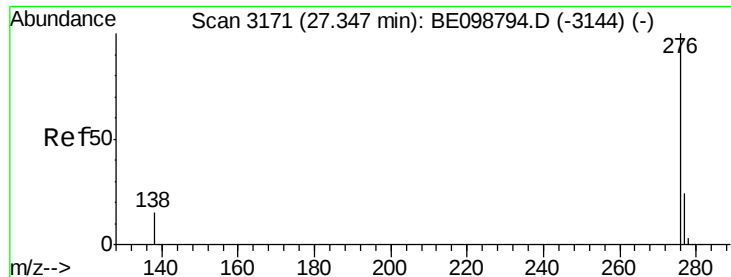
#38  
Dibenzo(a,h)anthracene  
Concen: 0.388 ng  
RT: 26.55 min Scan# 2949  
Delta R.T. -0.01 min  
Lab File: BE098830.D  
Acq: 8 Mar 2019 10:03

Tgt Ion:278 Resp: 8275  
Ion Ratio Lower Upper  
278 100  
139 15.9 11.8 17.6  
279 26.6 21.1 31.7



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: 0.386 ng

RT: 27.34 min Scan# 3169

Delta R.T. -0.01 min

Lab File: BE098830.D

Acq: 8 Mar 2019 10:03

Instrument :

BNA\_E

ClientSampleId :

PB117716BS

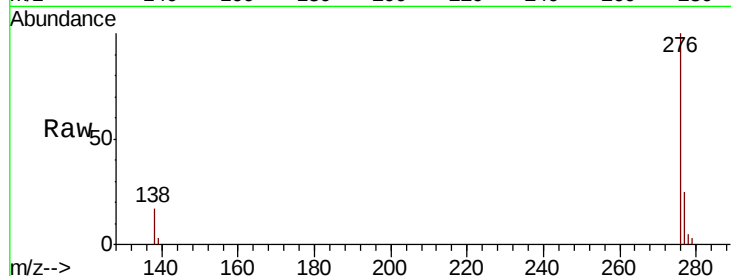
Tot Ion: 276 Resp: 8621

Ion Ratio Lower Upper

276 100

277 25.3 20.4 30.6

138 16.7 13.6 20.4



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

