

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE082918\  
 Data File : BE097398.D  
 Acq On : 29 Aug 2018 20:32  
 Operator : SJ/JU  
 Sample : J4596-10DL 5X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Aug 30 02:12:56 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE082918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 30 02:12:09 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 969      | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.12 | 136  | 4856     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.01 | 164  | 3016     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 16.76 | 188  | 8088     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 20.97 | 240  | 10472    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.20 | 264  | 11442    | 0.40 | ng/ul | 0.00     |

|                             |       |     |      |      |       |      |
|-----------------------------|-------|-----|------|------|-------|------|
| System Monitoring Compounds |       |     |      |      |       |      |
| 4) 2-Methylnaphthalene-d10  | 11.72 | 152 | 312  | 0.04 | ng/ul | 0.00 |
| 14) Fluoranthene-d10        | 18.80 | 212 | 1161 | 0.04 | ng/ul | 0.00 |

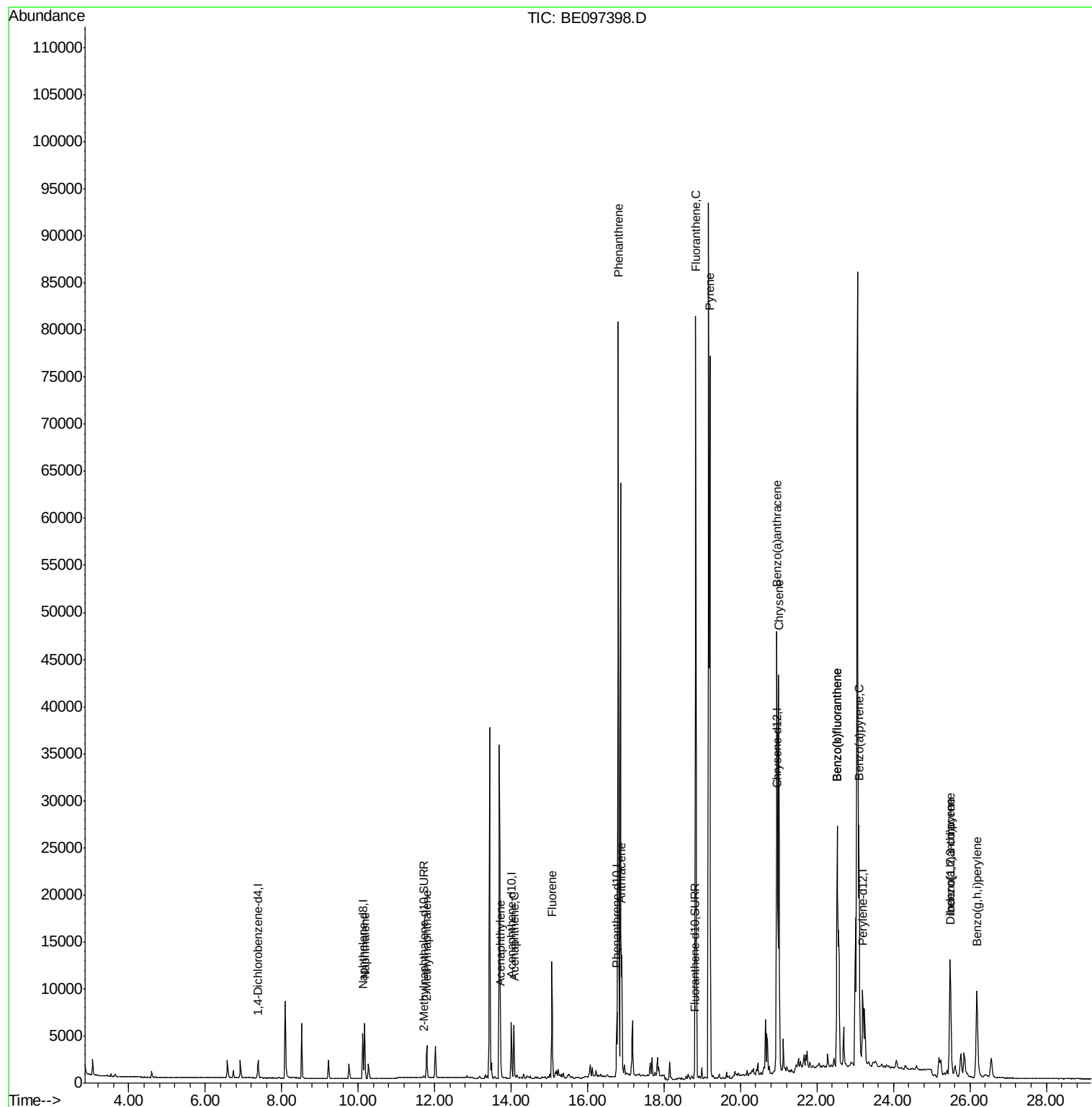
|                            |       |     |       |        |        |    |
|----------------------------|-------|-----|-------|--------|--------|----|
| Target Compounds           |       |     |       | Ovalue |        |    |
| 3) Naphthalene             | 10.17 | 128 | 8772  | 0.741  | ng/ul# | 92 |
| 5) 2-Methylnaphthalene     | 11.79 | 142 | 3230  | 0.432  | ng/ul  | 96 |
| 7) Acenaphthylene          | 13.72 | 152 | 2145  | 0.195  | ng/ul  | 96 |
| 8) Acenaphthene            | 14.07 | 153 | 3318  | 0.351  | ng/ul  | 97 |
| 9) Fluorene                | 15.07 | 166 | 7629  | 0.705  | ng/ul  | 93 |
| 12) Phenanthrene           | 16.80 | 178 | 86438 | 4.152  | ng/ul# | 89 |
| 13) Anthracene             | 16.89 | 178 | 13994 | 0.799  | ng/ul# | 92 |
| 15) Fluoranthene           | 18.83 | 202 | 88379 | 3.304  | ng/ul  | 84 |
| 17) Pyrene                 | 19.19 | 202 | 82190 | 2.917  | ng/ul# | 80 |
| 18) Benzo(a)anthracene     | 20.95 | 228 | 36078 | 1.341  | ng/ul# | 86 |
| 19) Chrysene               | 21.00 | 228 | 36994 | 1.194  | ng/ul  | 98 |
| 21) Benzo(b)fluoranthene   | 22.53 | 252 | 59055 | 1.927  | ng/ul  | 84 |
| 22) Benzo(k)fluoranthene   | 22.53 | 252 | 59055 | 1.728  | ng/ul# | 86 |
| 23) Benzo(a)pyrene         | 23.10 | 252 | 33222 | 1.172  | ng/ul# | 77 |
| 24) Indeno(1,2,3-cd)pyrene | 25.48 | 276 | 20637 | 0.562  | ng/ul# | 72 |
| 25) Dibenzo(a,h)anthracene | 25.50 | 278 | 5384  | 0.173  | ng/ul  | 99 |
| 26) Benzo(a,h,i)perylene   | 26.18 | 276 | 20651 | 0.659  | ng/ul# | 92 |

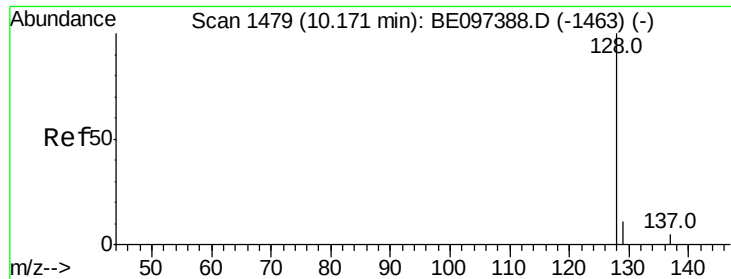
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_E  
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QLast Update : Thu Aug 30 02:12:09 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.741 ng/ul

RT: 10.17 min Scan# 1478

Delta R.T. -0.00 min

Lab File: BE097398.D

Acq: 29 Aug 2018 20:32

Instrument :

BNA\_E

ClientSampleId :

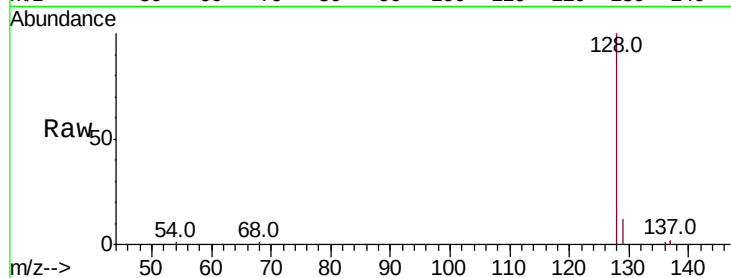
Tot Ion:128 Resp: 8772

Ion Ratio Lower Upper

128 100

129 12.0 11.3 16.9

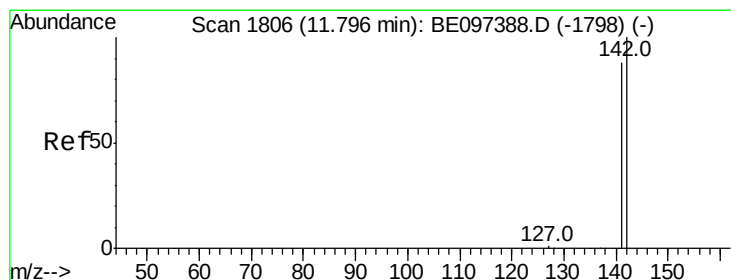
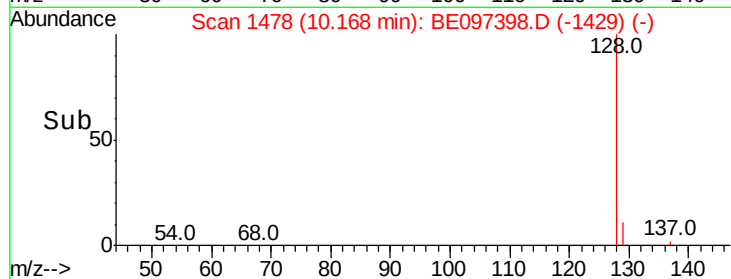
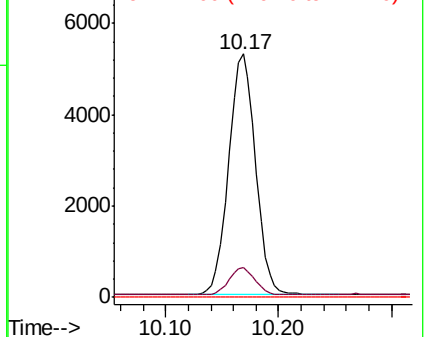
127 0.0 4.0 6.0#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.432 ng/ul

RT: 11.79 min Scan# 1805

Delta R.T. -0.00 min

Lab File: BE097398.D

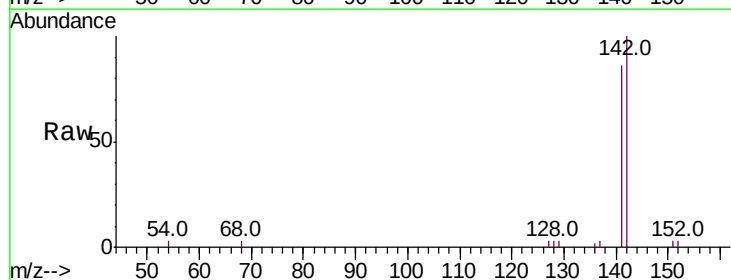
Acq: 29 Aug 2018 20:32

Tgt Ion:142 Resp: 3230

Ion Ratio Lower Upper

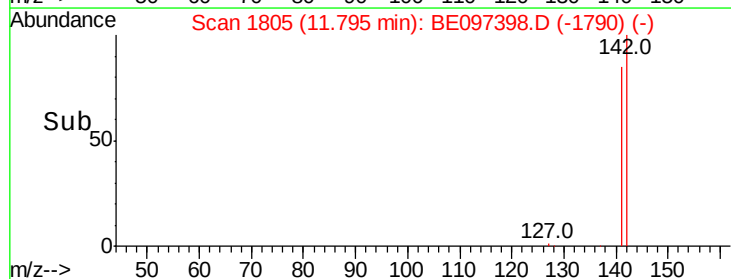
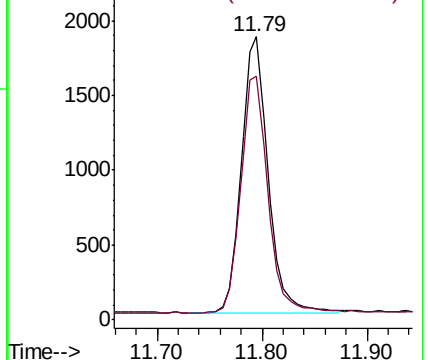
142 100

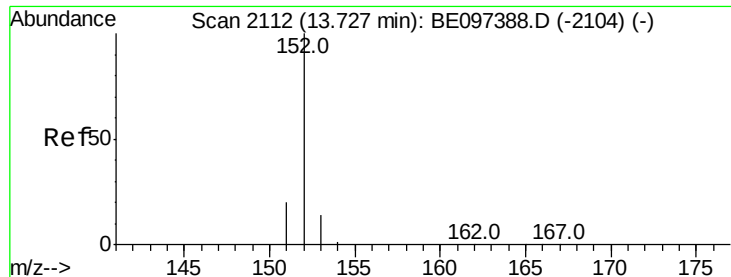
141 87.3 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.195 ng/ul

RT: 13.72 min Scan# 2111

Delta R.T. -0.01 min

Lab File: BE097398.D

Acq: 29 Aug 2018 20:32

Instrument :

BNA\_E

ClientSampleId :

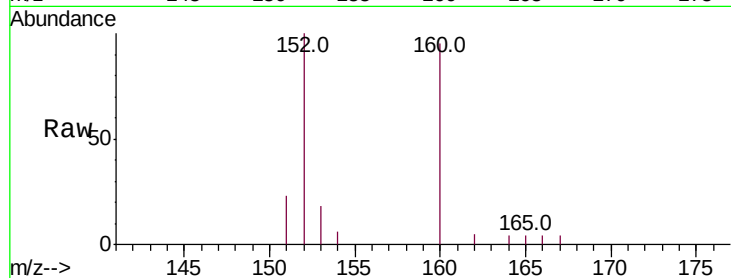
Tot Ion:152 Resp: 2145

Ion Ratio Lower Upper

152 100

151 22.5 17.1 25.7

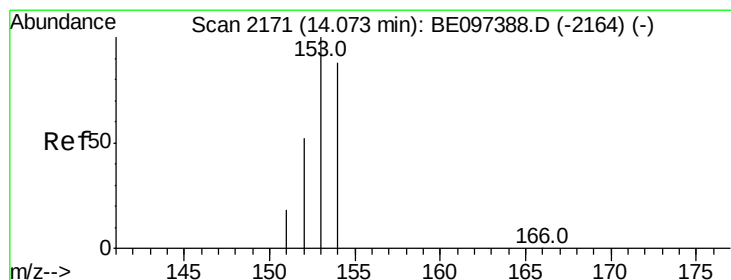
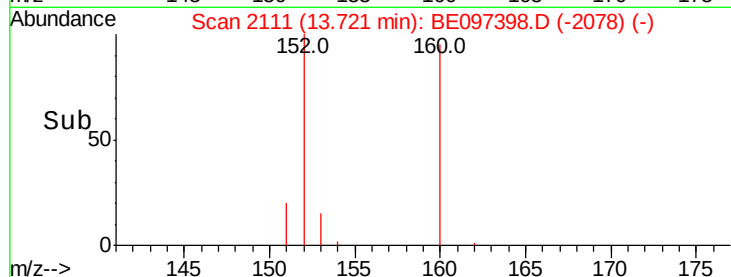
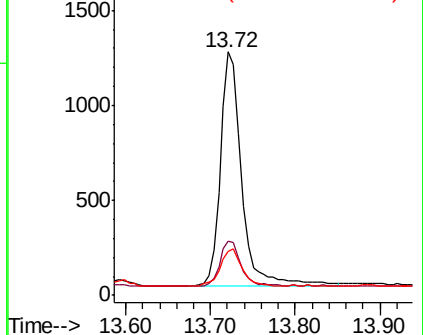
153 18.3 12.8 19.2



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



#8

Acenaphthene

Concen: 0.351 ng/ul

RT: 14.07 min Scan# 2171

Delta R.T. 0.00 min

Lab File: BE097398.D

Acq: 29 Aug 2018 20:32

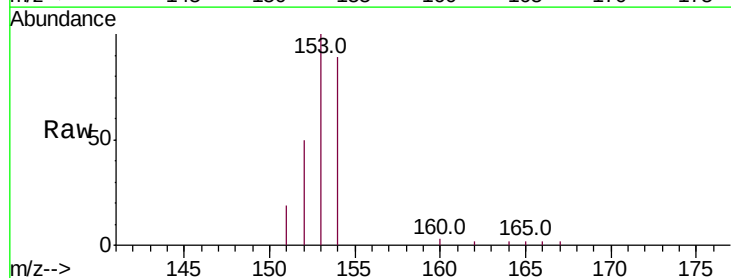
Tgt Ion:153 Resp: 3318

Ion Ratio Lower Upper

153 100

152 50.4 36.0 54.0

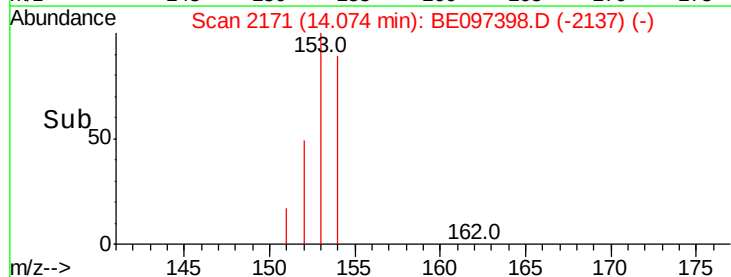
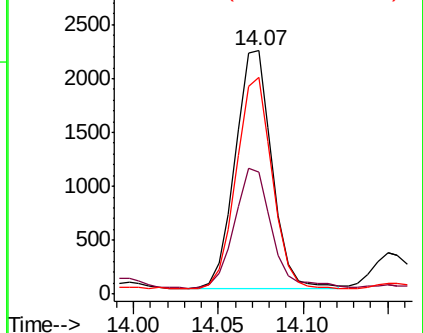
154 89.3 72.0 108.0

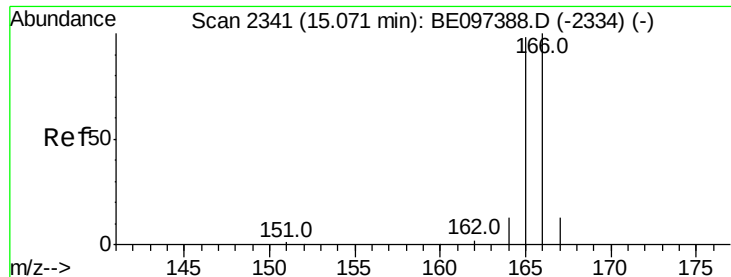


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

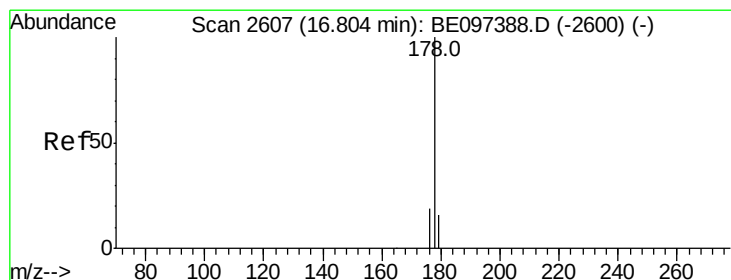
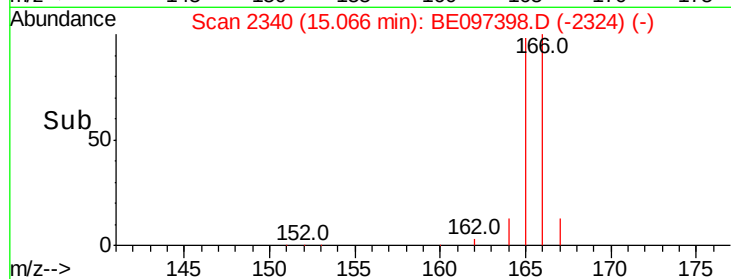
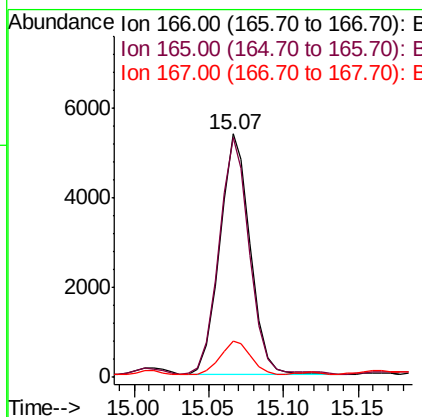
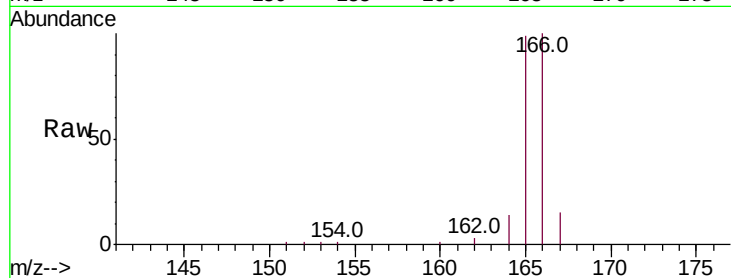




#9  
**Fluorene**  
 Concen: 0.705 ng/ul  
 RT: 15.07 min Scan# 2340  
 Delta R.T. -0.01 min  
 Lab File: BE097398.D  
 Acq: 29 Aug 2018 20:32

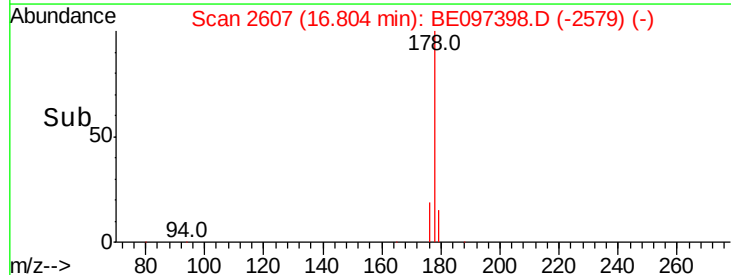
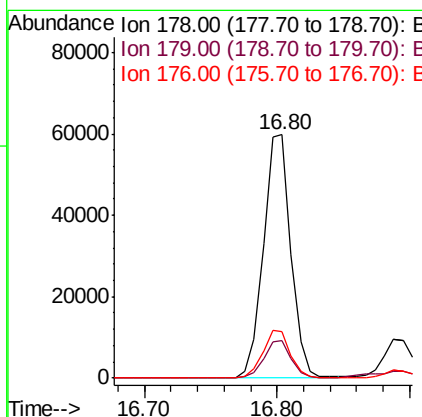
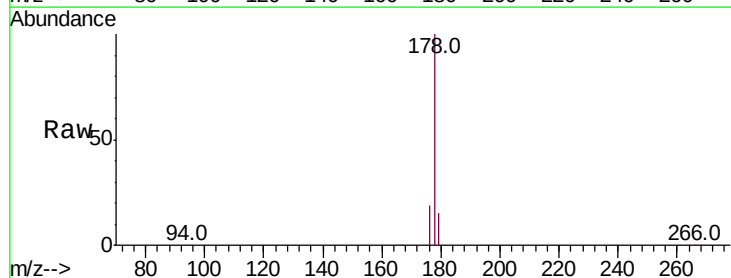
Instrument :  
 BNA\_E  
 ClientSampleId :

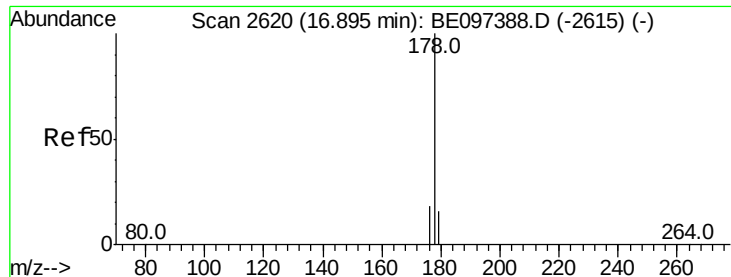
Tot Ion:166 Resp: 7629  
 Ion Ratio Lower Upper  
 166 100  
 165 98.7 73.4 110.2  
 167 14.7 14.6 22.0



#12  
**Phenanthrene**  
 Concen: 4.152 ng/ul  
 RT: 16.80 min Scan# 2607  
 Delta R.T. 0.00 min  
 Lab File: BE097398.D  
 Acq: 29 Aug 2018 20:32

Tgt Ion:178 Resp: 86438  
 Ion Ratio Lower Upper  
 178 100  
 179 15.4 18.4 27.6#  
 176 18.9 13.6 20.4





#13

Anthracene

Concen: 0.799 ng/ul

RT: 16.89 min Scan# 2619

Delta R.T. -0.01 min

Lab File: BE097398.D

Acq: 29 Aug 2018 20:32

Instrument :

BNA\_E

ClientSampleId :

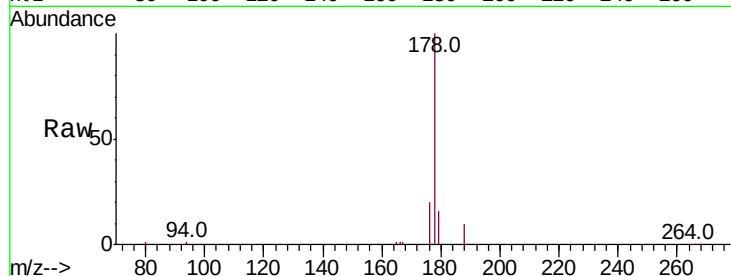
Tot Ion:178 Resp: 13994

Ion Ratio Lower Upper

178 100

179 16.5 18.1 27.1#

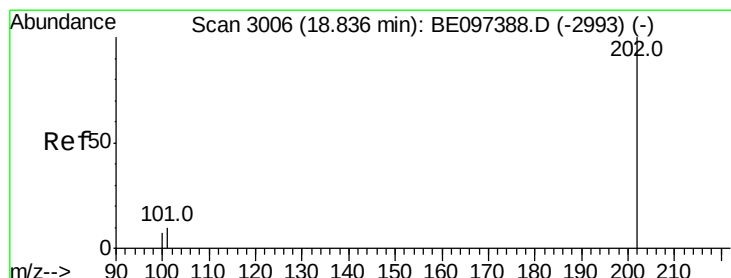
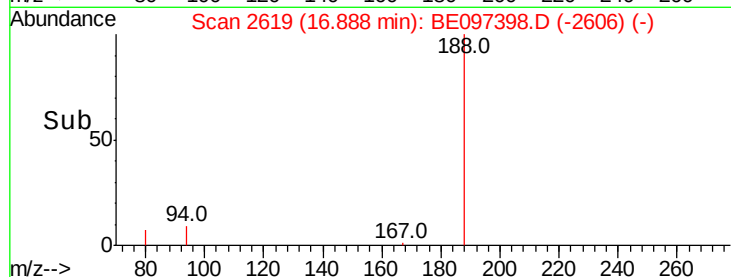
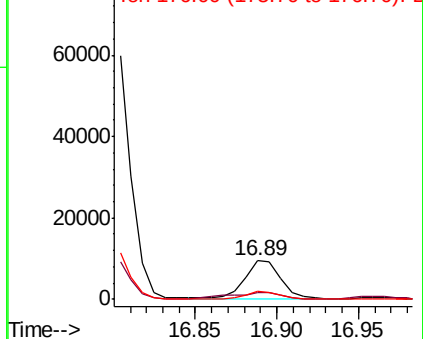
176 19.5 14.7 22.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#15

Fluoranthene

Concen: 3.304 ng/ul

RT: 18.83 min Scan# 3005

Delta R.T. -0.00 min

Lab File: BE097398.D

Acq: 29 Aug 2018 20:32

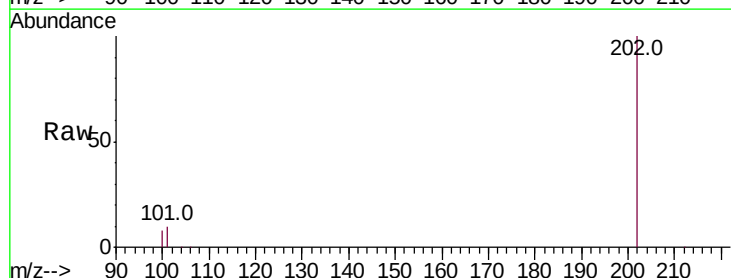
Tgt Ion:202 Resp: 88379

Ion Ratio Lower Upper

202 100

101 10.4 0.0 30.3

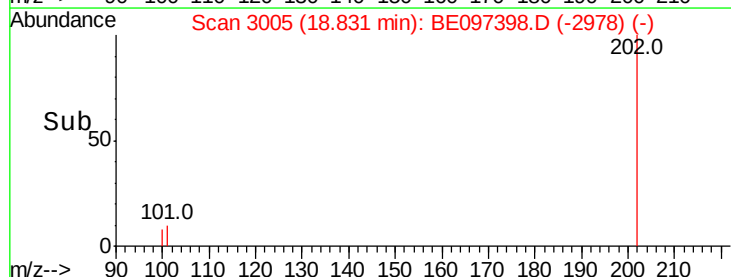
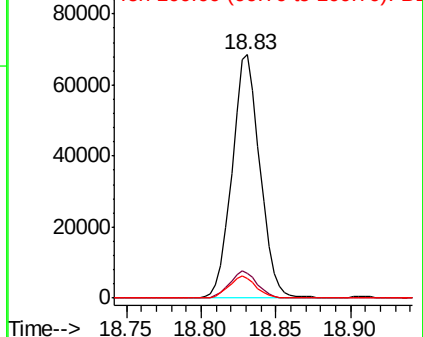
100 8.1 0.0 39.5

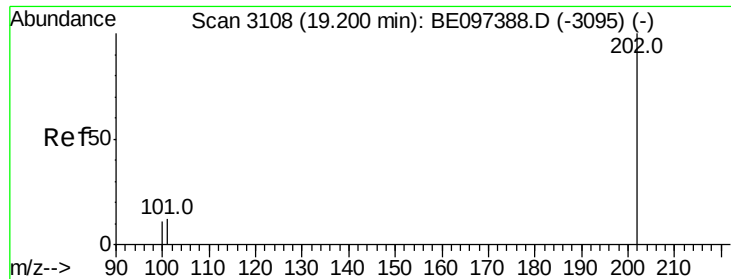


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): BE

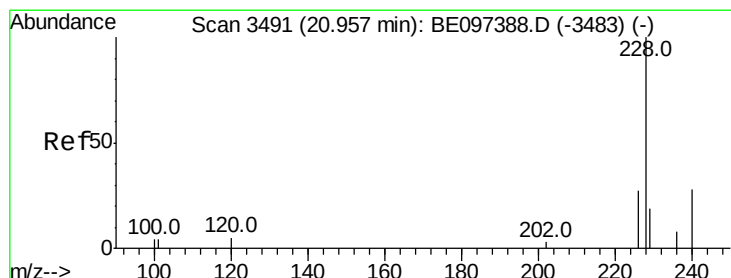
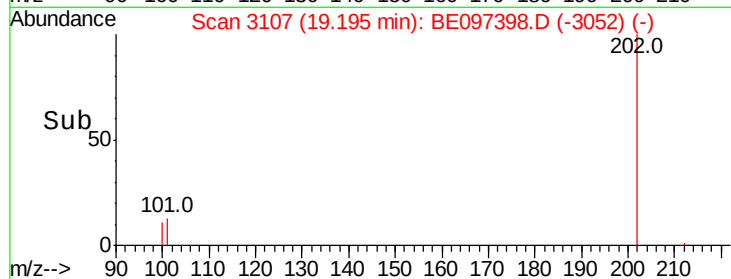
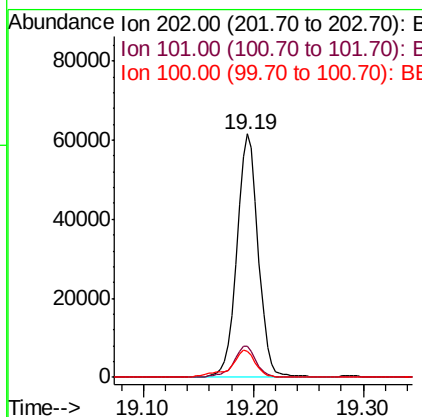
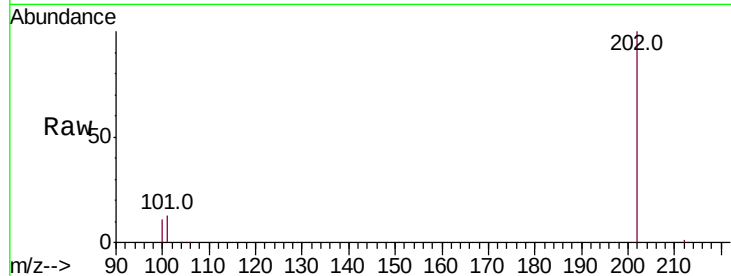




#17  
Pvrene  
Concen: 2.917 ng/ul  
RT: 19.19 min Scan# 3107  
Delta R.T. -0.00 min  
Lab File: BE097398.D  
Acq: 29 Aug 2018 20:32

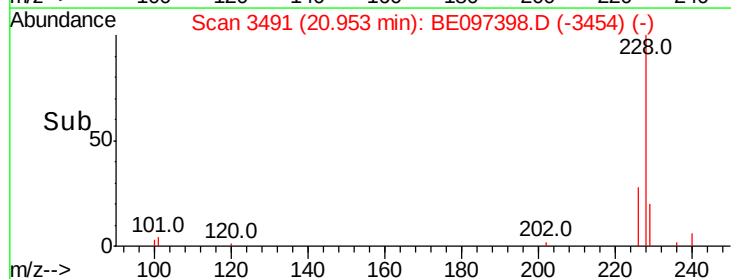
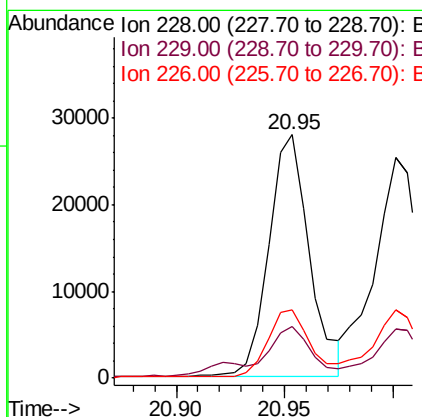
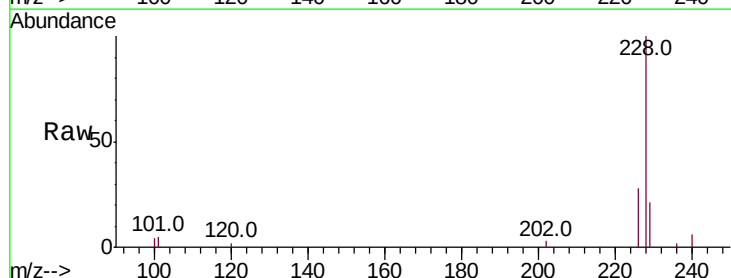
Instrument :  
BNA\_E  
ClientSampleId :

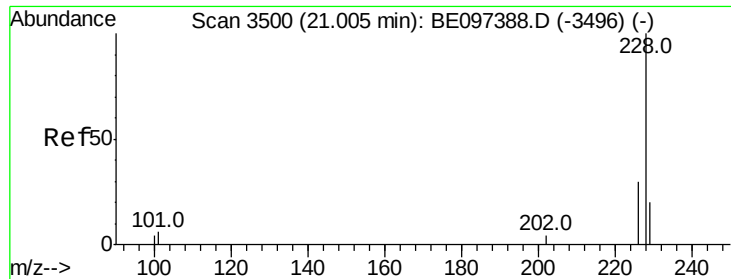
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.8  | 18.2  | 27.4# |
| 100     | 10.8  | 15.6  | 23.4# |



#18  
Benzo(a)anthracene  
Concen: 1.341 ng/ul  
RT: 20.95 min Scan# 3491  
Delta R.T. -0.00 min  
Lab File: BE097398.D  
Acq: 29 Aug 2018 20:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.9  | 22.8  | 34.2# |
| 226     | 28.2  | 17.0  | 25.6# |





#19

Chrysene

Concen: 1.194 ng/ul

RT: 21.00 min Scan# 3500

Delta R.T. -0.00 min

Lab File: BE097398.D

Acq: 29 Aug 2018 20:32

Instrument :

BNA\_E

ClientSampleId :

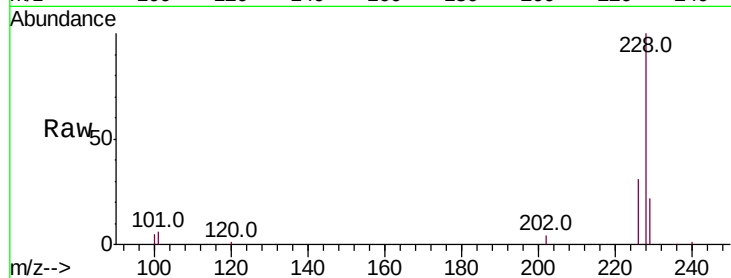
Tot Ion:228 Resp: 36994

Ion Ratio Lower Upper

228 100

226 30.9 23.4 35.0

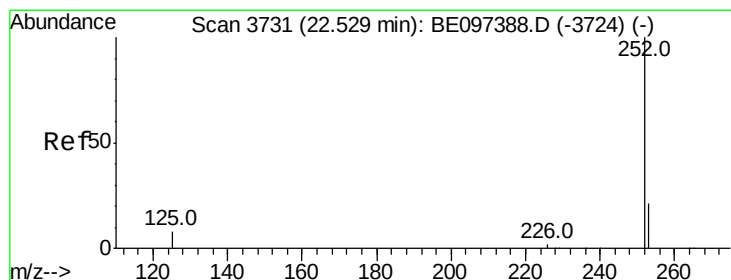
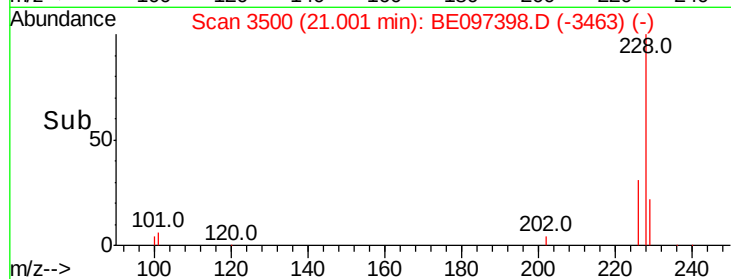
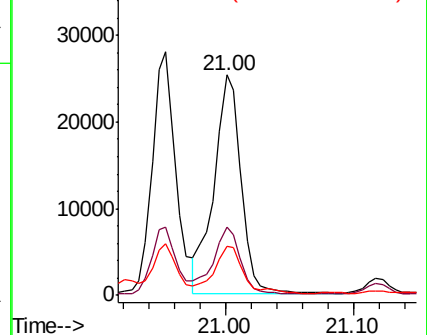
229 22.4 17.7 26.5



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



#21

Benzo(b)fluoranthene

Concen: 1.927 ng/ul

RT: 22.53 min Scan# 3732

Delta R.T. -0.00 min

Lab File: BE097398.D

Acq: 29 Aug 2018 20:32

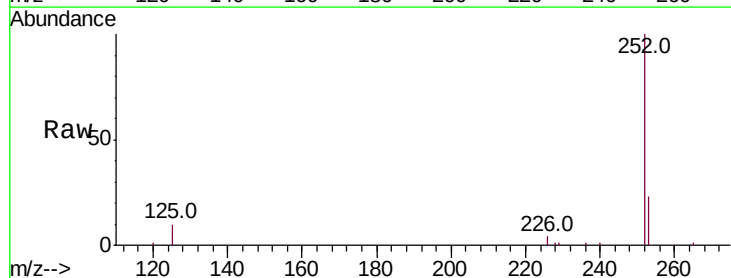
Tgt Ion:252 Resp: 59055

Ion Ratio Lower Upper

252 100

253 23.4 0.0 64.2

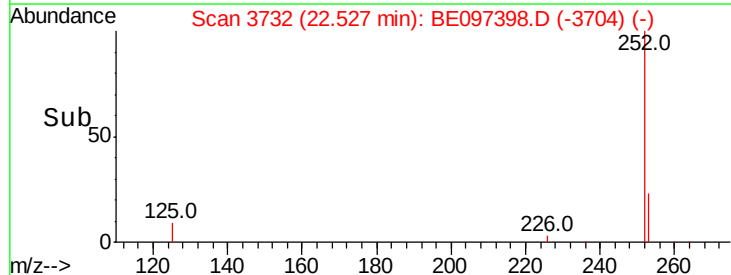
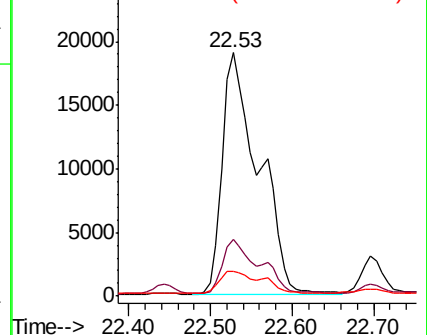
125 10.4 0.0 35.0



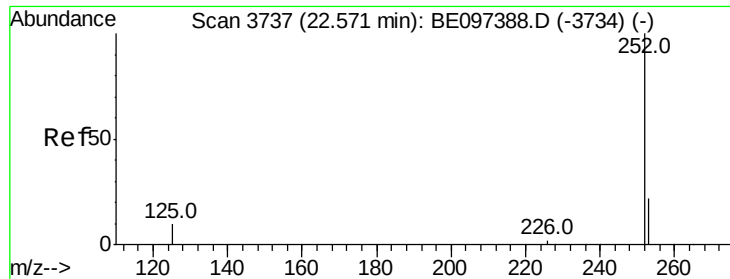
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







#22

Benzo(k)fluoranthene

Concen: 1.728 ng/ul

RT: 22.53 min Scan# 3732

Delta R.T. -0.04 min

Lab File: BE097398.D

Acq: 29 Aug 2018 20:32

Instrument :

BNA\_E

ClientSampleId :

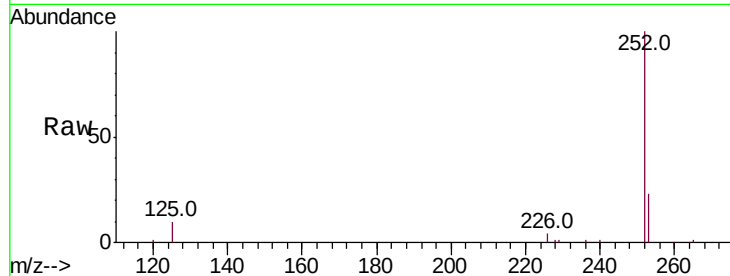
Tot Ion:252 Resp: 59055

Ion Ratio Lower Upper

252 100

253 23.4 24.5 36.7#

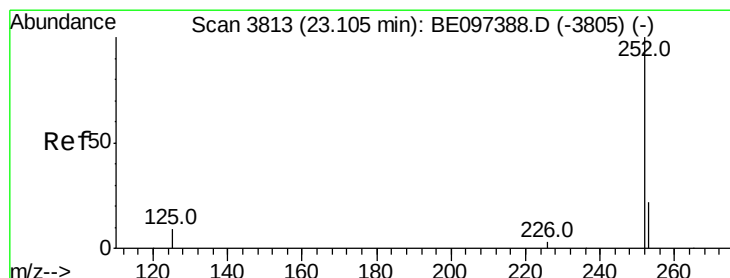
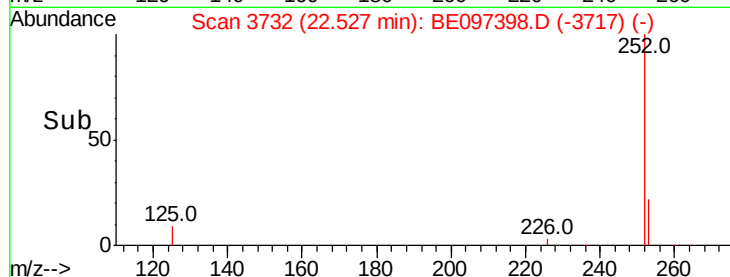
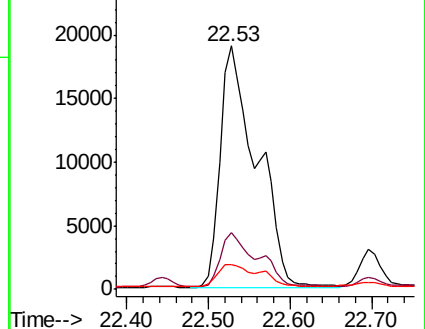
125 10.4 13.7 20.5#



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



#23

Benzo(a)pyrene

Concen: 1.172 ng/ul

RT: 23.10 min Scan# 3813

Delta R.T. -0.01 min

Lab File: BE097398.D

Acq: 29 Aug 2018 20:32

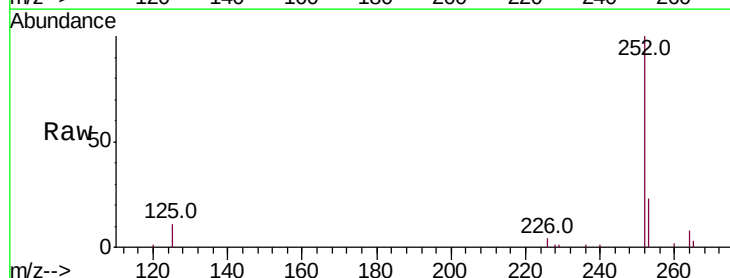
Tgt Ion:252 Resp: 33222

Ion Ratio Lower Upper

252 100

253 23.1 28.5 42.7#

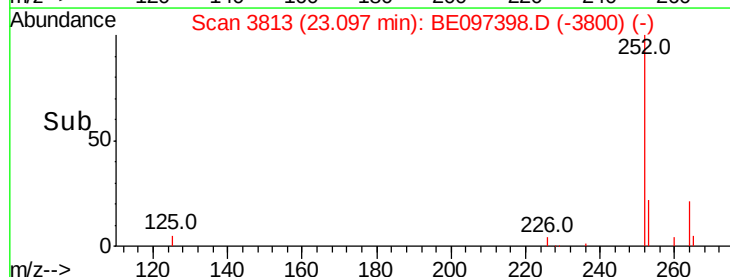
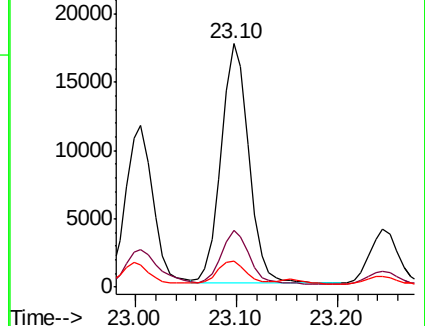
125 10.8 18.1 27.1#

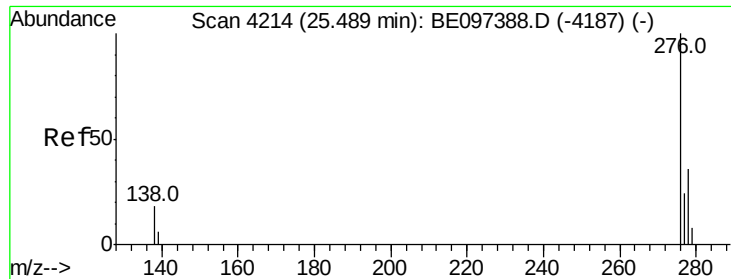


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

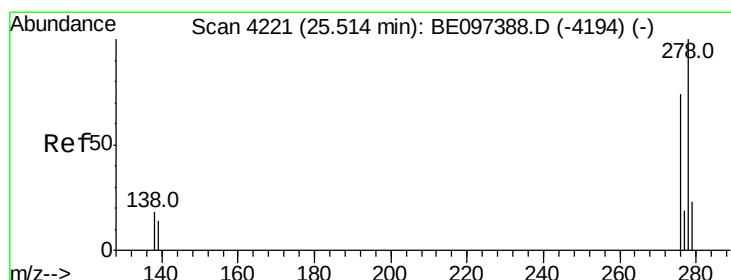
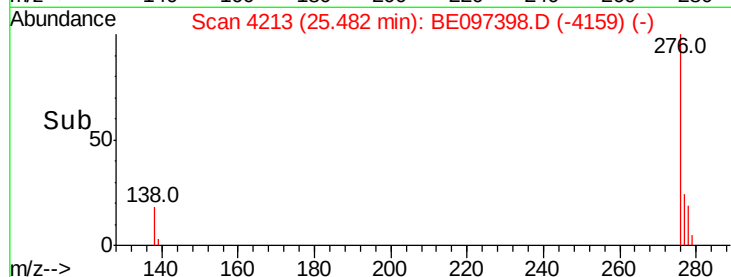
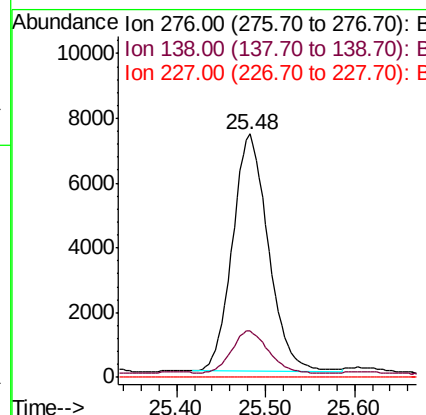
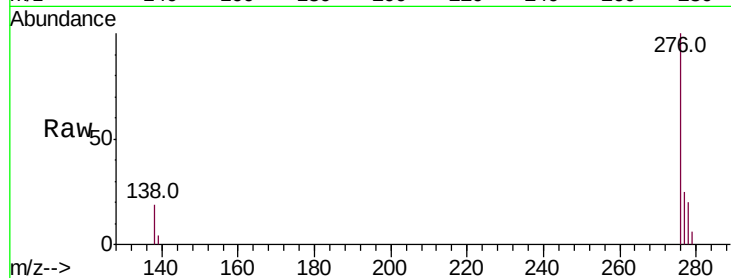




#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.562 ng/ul  
 RT: 25.48 min Scan# 4213  
 Delta R.T. -0.01 min  
 Lab File: BE097398.D  
 Acq: 29 Aug 2018 20:32

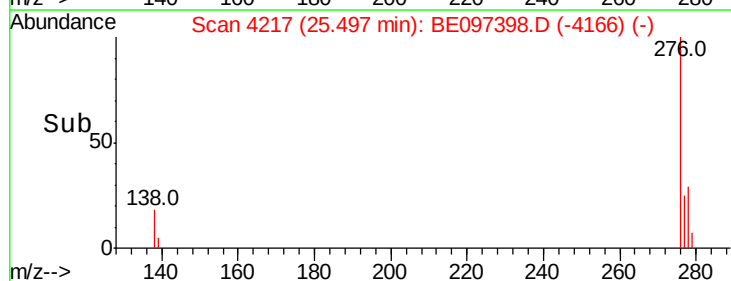
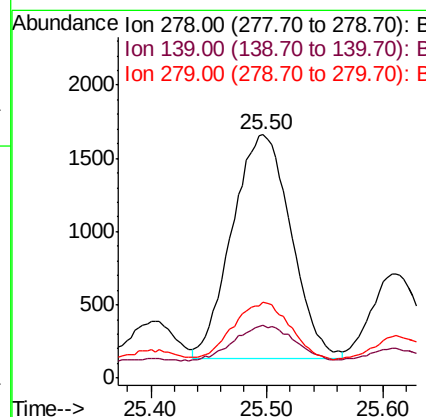
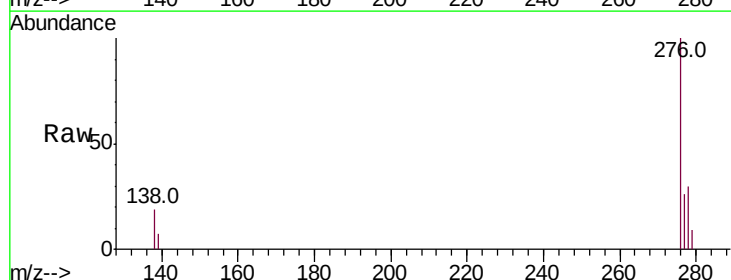
Instrument :  
 BNA\_E  
 ClientSampleId :

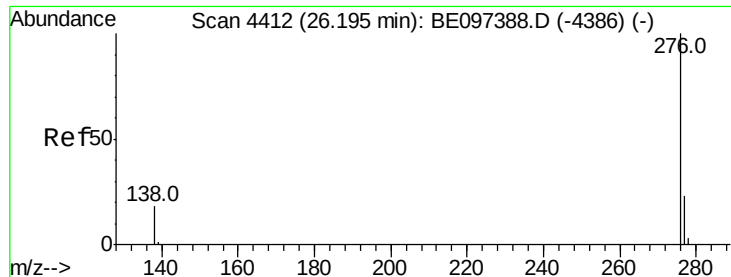
Tot Ion:276 Resp: 20637  
 Ion Ratio Lower Upper  
 276 100  
 138 18.3 28.0 42.0#  
 227 0.0 8.0 12.0#



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.173 ng/ul  
 RT: 25.50 min Scan# 4217  
 Delta R.T. -0.02 min  
 Lab File: BE097398.D  
 Acq: 29 Aug 2018 20:32

Tgt Ion:278 Resp: 5384  
 Ion Ratio Lower Upper  
 278 100  
 139 22.0 17.4 26.0  
 279 31.3 25.9 38.9





#26

Benzo(a,h,i)perylene

Concen: 0.659 ng/ul

RT: 26.18 min Scan# 4409

Delta R.T. -0.01 min

Lab File: BE097398.D

Acq: 29 Aug 2018 20:32

Instrument :

BNA\_E

ClientSampleId :

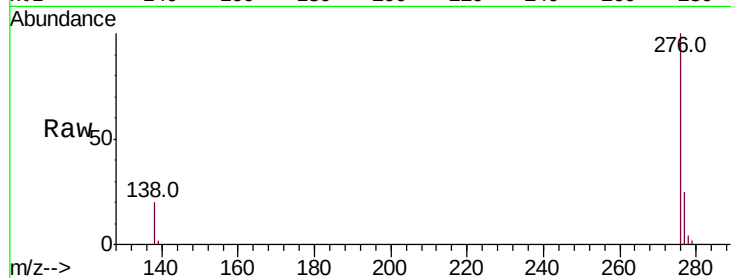
Tot Ion:276 Resp: 20651

Ion Ratio Lower Upper

276 100

138 19.5 21.8 32.8#

277 25.1 20.5 30.7



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

