

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\  
 Data File : BE100341.D  
 Acq On : 3 Jul 2019 22:42  
 Operator : JU/SJ  
 Sample : K3560-07  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-009-SW137-062419

Quant Time: Jul 04 00:37:28 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 28 14:06:53 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.63  | 152  | 643      | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.43 | 136  | 2189     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.31 | 164  | 1808     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.05 | 188  | 5662     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.25 | 240  | 7466     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.66 | 264  | 8777     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.20  | 112 | 634   | 0.39 | ng | -0.01 |
| 5) Phenol-d6                | 6.82  | 99  | 799   | 0.37 | ng | -0.01 |
| 8) Nitrobenzene-d5          | 8.81  | 82  | 708   | 0.33 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.04 | 152 | 1650  | 0.40 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol    | 15.81 | 330 | 561   | 0.44 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 12.93 | 172 | 2513  | 0.36 | ng | -0.01 |
| 25) Fluoranthene-d10        | 19.09 | 212 | 29328 | 0.36 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.69 | 244 | 6878  | 0.44 | ng | -0.01 |

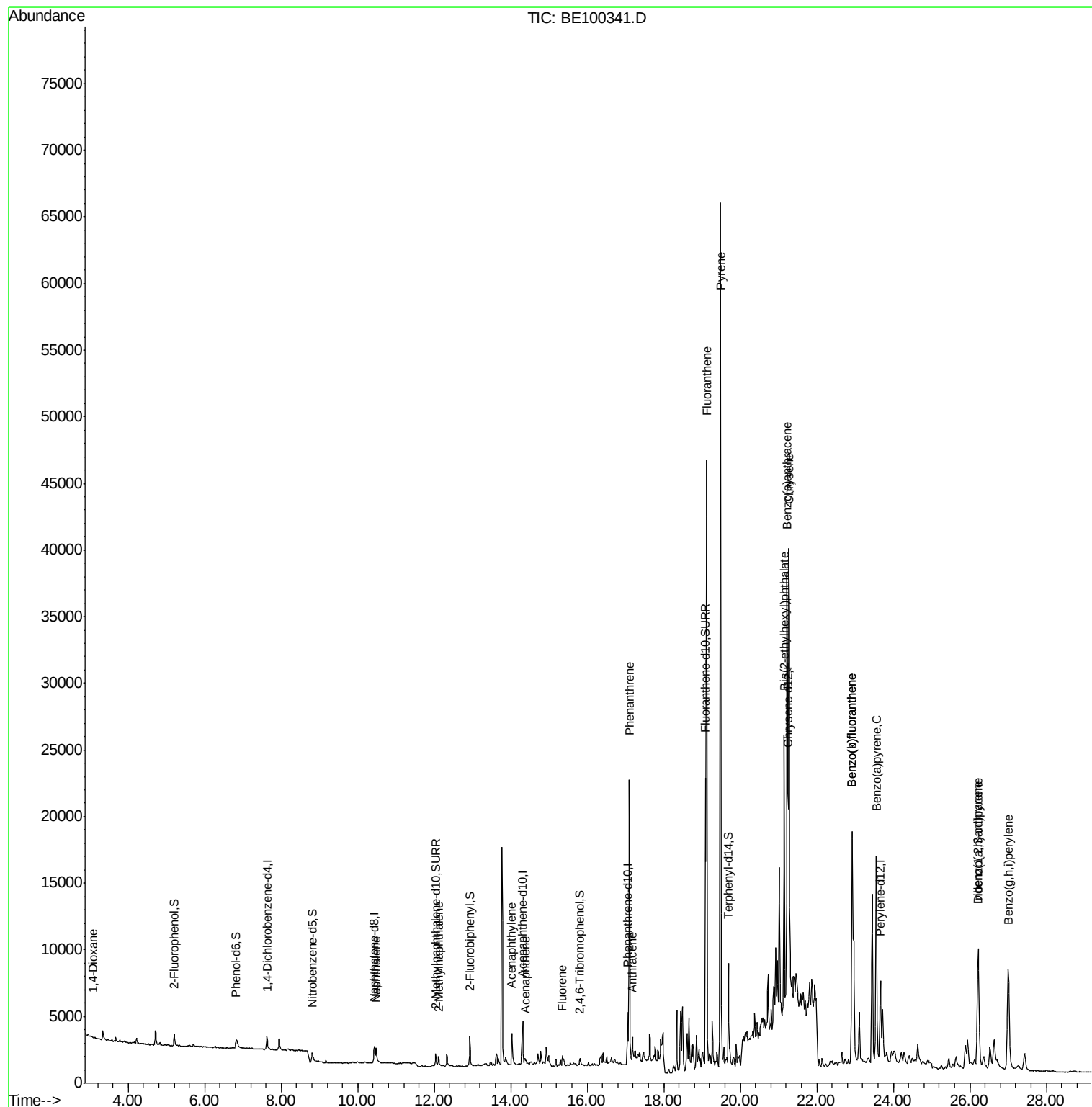
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.07  | 88  | 23    | 0.023  | ng | # 1  |
| 9) Naphthalene                 | 10.49 | 128 | 2611  | 0.108  | ng | # 92 |
| 12) 2-Methylnaphthalene        | 12.11 | 142 | 594   | 0.140  | ng | 96   |
| 16) Acenaphthylene             | 14.03 | 152 | 3621  | 0.417  | ng | 99   |
| 17) Acenaphthene               | 14.37 | 154 | 245   | 0.050  | ng | # 88 |
| 18) Fluorene                   | 15.35 | 166 | 856   | 0.118  | ng | # 79 |
| 23) Phenanthrene               | 17.09 | 178 | 23529 | 1.715  | ng | 99   |
| 24) Anthracene                 | 17.19 | 178 | 2412  | 0.195  | ng | # 90 |
| 26) Fluoranthene               | 19.12 | 202 | 43240 | 1.978  | ng | 98   |
| 28) Pvrene                     | 19.48 | 202 | 60891 | 3.081  | ng | 97   |
| 30) Benzo(a)anthracene         | 21.22 | 228 | 29483 | 1.201  | ng | 95   |
| 31) Chrysene                   | 21.27 | 228 | 37273 | 1.512  | ng | 95   |
| 32) Bis(2-ethylhexyl)phthalate | 21.15 | 149 | 21694 | 0.568  | ng | 100  |
| 33) Indeno(1,2,3-cd)pyrene     | 26.22 | 276 | 17869 | 0.548  | ng | 98   |
| 35) Benzo(b)fluoranthene       | 22.92 | 252 | 34392 | 1.445  | ng | # 98 |
| 36) Benzo(k)fluoranthene       | 22.92 | 252 | 34392 | 1.295  | ng | 98   |
| 37) Benzo(a)pvrene             | 23.55 | 252 | 24577 | 1.030  | ng | # 97 |
| 38) Dibenzo(a,h)anthracene     | 26.22 | 278 | 4555  | 0.183  | ng | # 75 |
| 39) Benzo(g,h,i)perylene       | 27.00 | 276 | 20977 | 0.820  | ng | 99   |

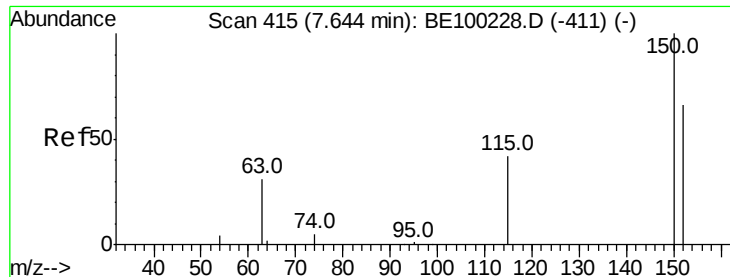
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\  
Data File : BE100341.D  
Acq On : 3 Jul 2019 22:42  
Operator : JU/SJ  
Sample : K3560-07  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-009-SW137-062419

Quant Time: Jul 04 00:37:28 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 28 14:06:53 2019  
Response via : Initial Calibration



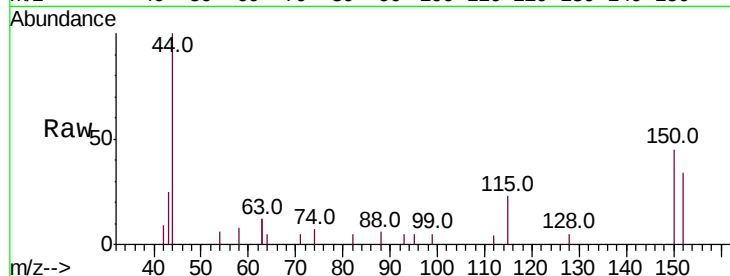


#1

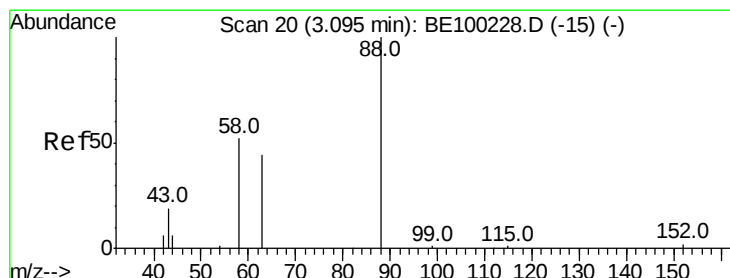
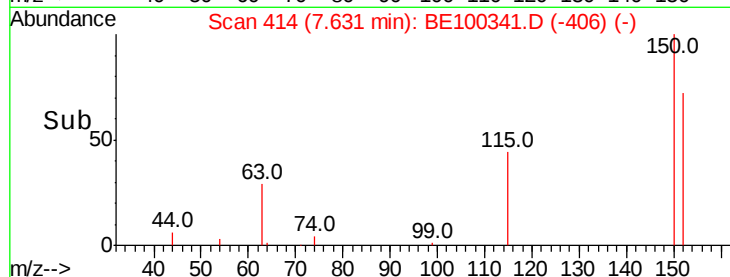
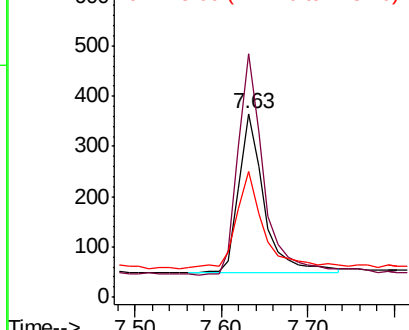
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.63 min Scan# 414  
Delta R.T. -0.01 min  
Lab File: BE100341.D  
Acq: 3 Jul 2019 22:42

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-009-SW137-062419

Tot Ion:152 Resp: 643  
Ion Ratio Lower Upper  
152 100  
150 132.6 114.5 171.7  
115 68.5 57.1 85.7



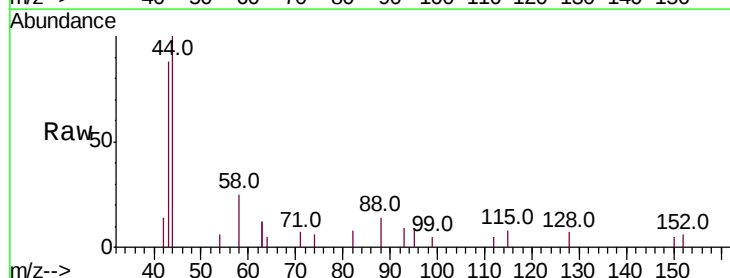
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



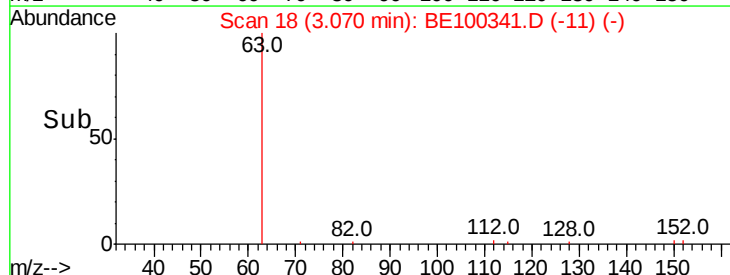
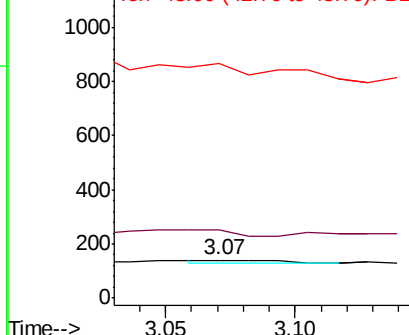
#2

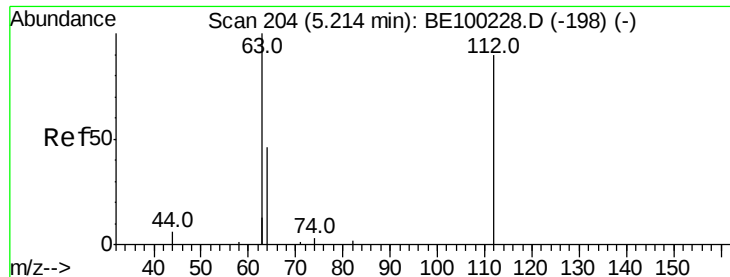
1,4-Dioxane  
Concen: 0.023 ng  
RT: 3.07 min Scan# 18  
Delta R.T. -0.02 min  
Lab File: BE100341.D  
Acq: 3 Jul 2019 22:42

Tgt Ion: 88 Resp: 23  
Ion Ratio Lower Upper  
88 100  
58 221.7 43.6 65.4#  
43 0.0 21.4 32.0#



Abundance Ion 88.00 (87.70 to 88.70): BE1  
Ion 58.00 (57.70 to 58.70): BE1  
Ion 43.00 (42.70 to 43.70): BE1





#4

2-Fluorophenol

Concen: 0.387 ng

RT: 5.20 min Scan# 203

Delta R.T. -0.01 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

BNA\_E

ClientSampleId :

EXT-009-SW137-062419

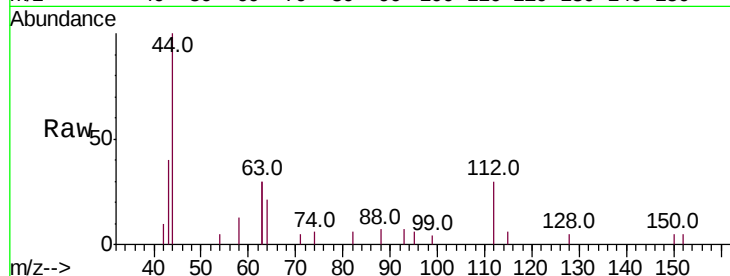
Tot Ion: 112 Resp: 634

Ion Ratio Lower Upper

112 100

64 53.2 39.4 59.0

63 145.9 104.5 156.7



Abundance Ion 112.00 (111.70 to 112.70): BE1

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1

800

600

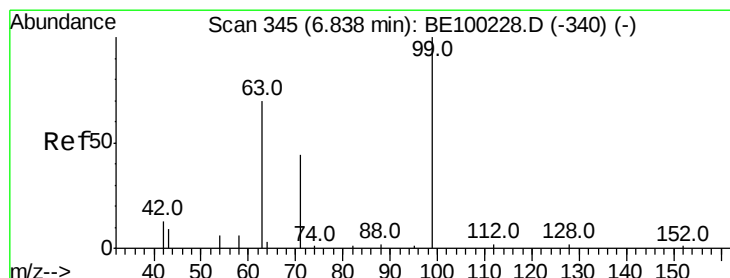
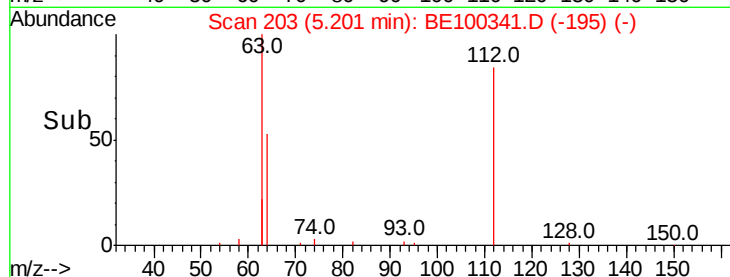
400

200

0

5.10 5.20 5.30

Time-->



#5

Phenol-d6

Concen: 0.370 ng

RT: 6.82 min Scan# 344

Delta R.T. -0.01 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

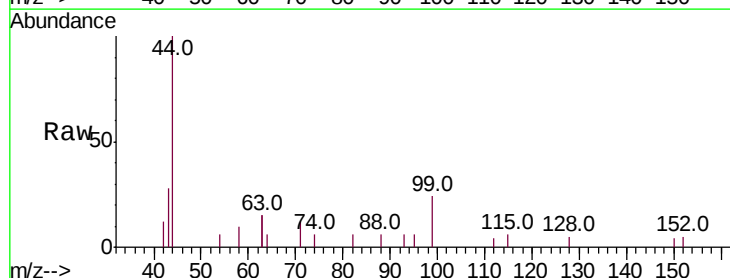
Tgt Ion: 99 Resp: 799

Ion Ratio Lower Upper

99 100

42 20.3 11.2 16.8#

71 40.4 37.2 55.8



Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1

300

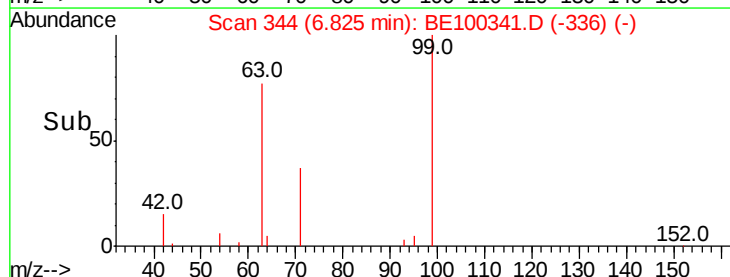
200

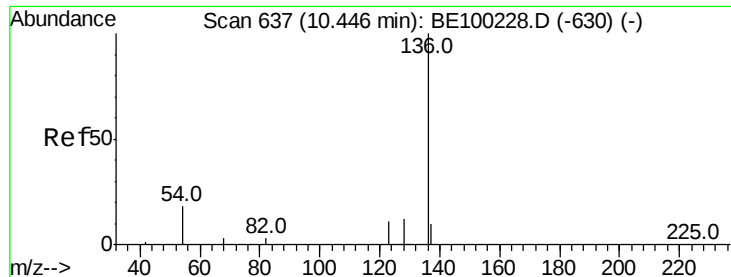
100

0

6.70 6.80 6.90 7.00

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.43 min Scan# 636

Delta R.T. -0.01 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

BNA\_E

ClientSampleId :

EXT-009-SW137-062419

Tot Ion:136 Resp: 2189

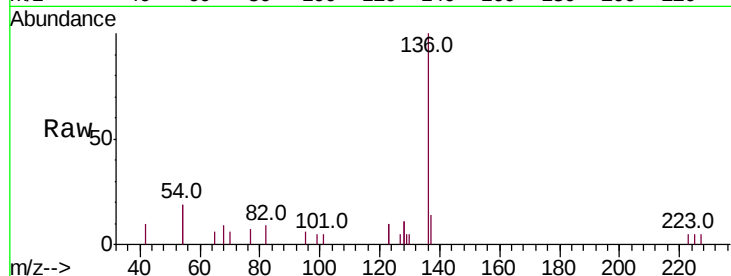
Ion Ratio Lower Upper

136 100

137 14.0 11.8 17.8

54 38.0 27.7 41.5

68 8.6 6.8 10.2

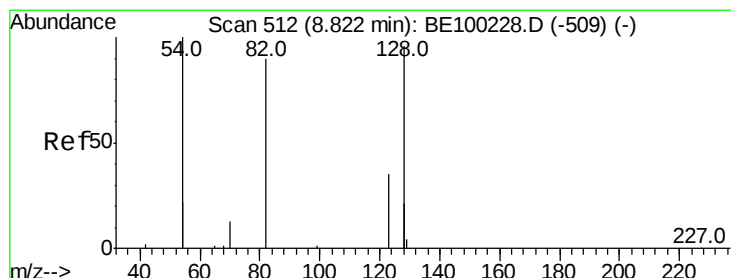
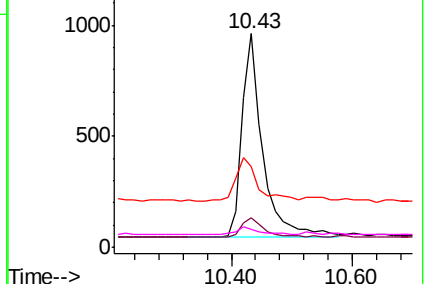
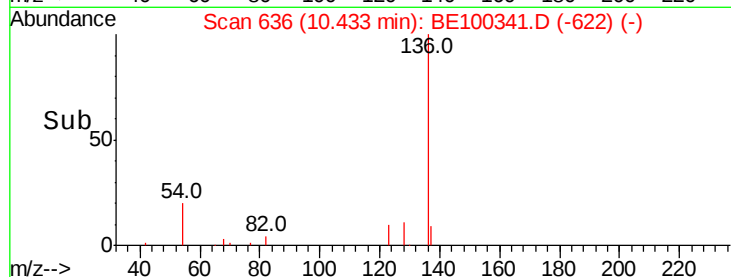


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1



#8

Nitrobenzene-d5

Concen: 0.326 ng

RT: 8.81 min Scan# 511

Delta R.T. -0.01 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

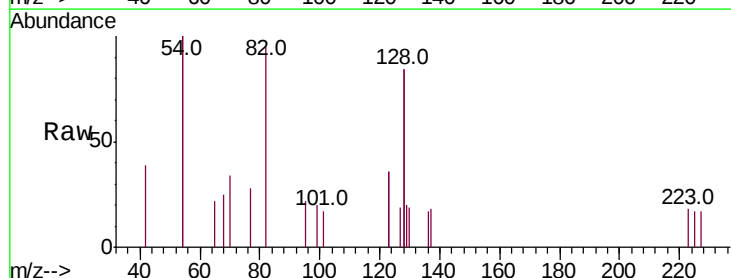
Tgt Ion: 82 Resp: 708

Ion Ratio Lower Upper

82 100

128 178.0 140.9 211.3

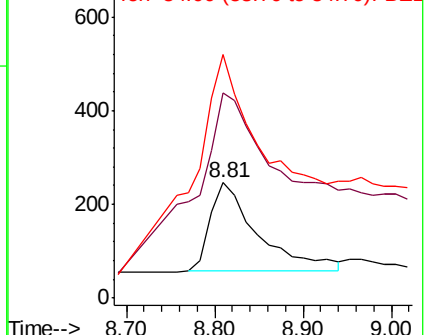
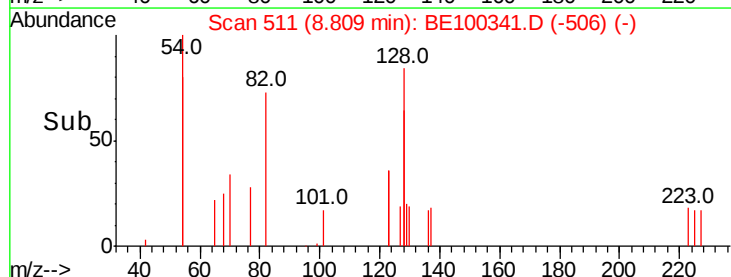
54 211.4 146.2 219.2

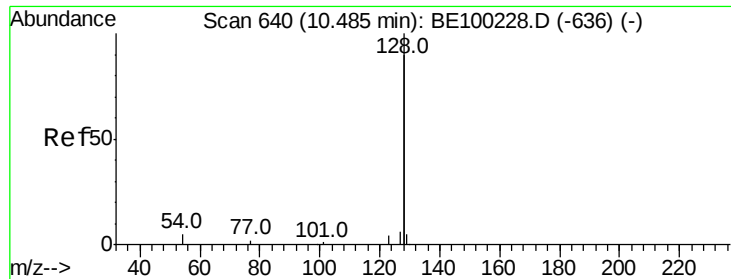


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.108 ng

RT: 10.49 min Scan# 640

Delta R.T. 0.00 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

BNA\_E

ClientSampleId :

EXT-009-SW137-062419

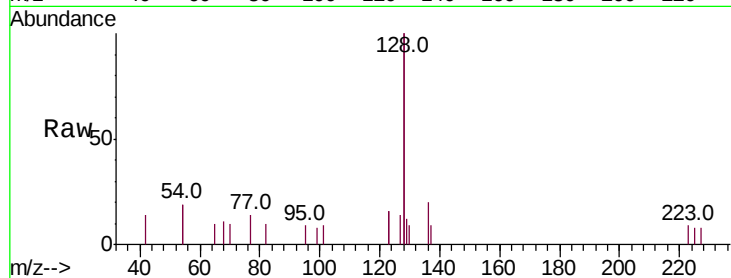
Tot Ion:128 Resp: 2611

Ion Ratio Lower Upper

128 100

129 6.2 3.0 4.6#

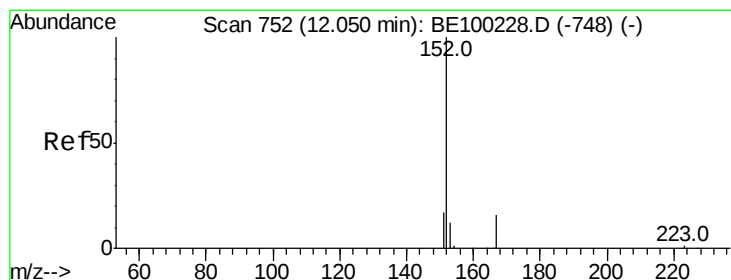
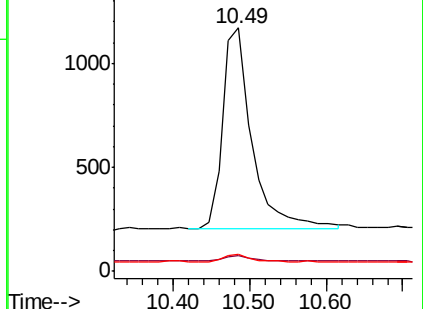
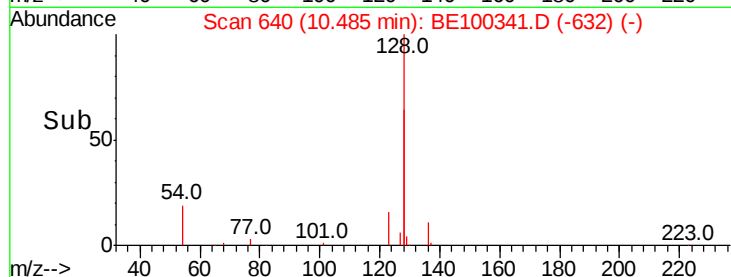
127 7.1 3.5 5.3#



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



#11

2-Methylnaphthalene-d10

Concen: 0.401 ng

RT: 12.04 min Scan# 751

Delta R.T. -0.01 min

Lab File: BE100341.D

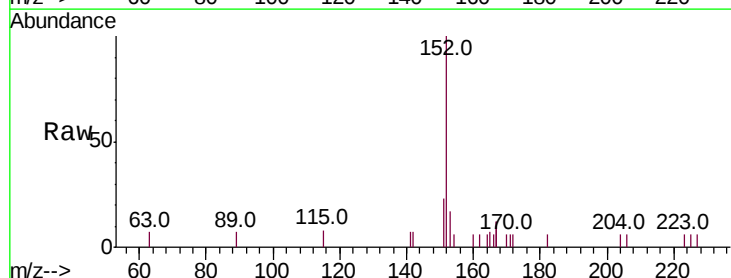
Acq: 3 Jul 2019 22:42

Tgt Ion:152 Resp: 1650

Ion Ratio Lower Upper

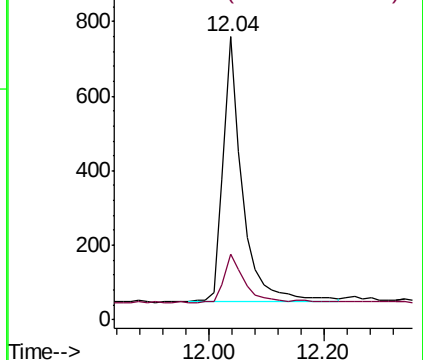
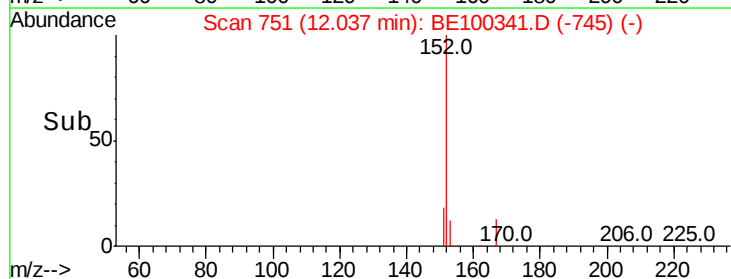
152 100

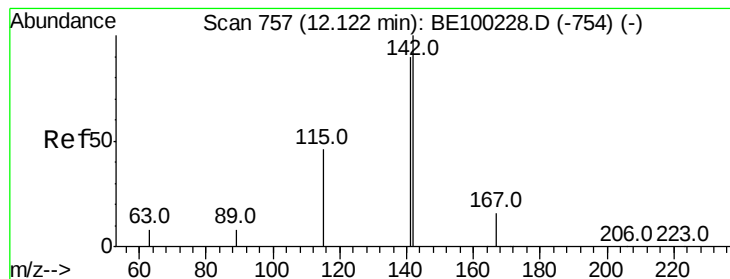
151 19.3 15.1 22.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.140 ng

RT: 12.11 min Scan# 756

Delta R.T. -0.01 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

BNA\_E

ClientSampleId :

EXT-009-SW137-062419

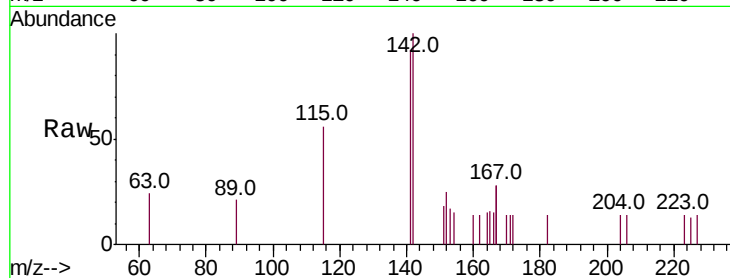
Tot Ion:142 Resp: 594

Ion Ratio Lower Upper

142 100

141 91.9 72.4 108.6

115 56.3 40.4 60.6



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

12.11

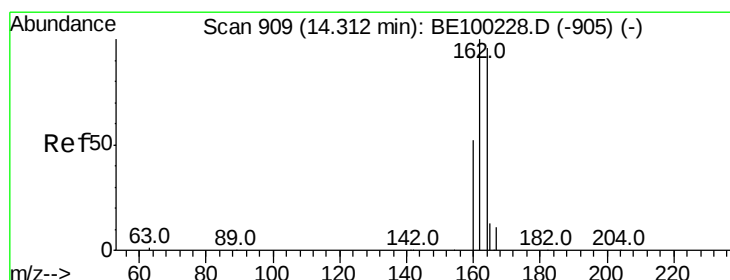
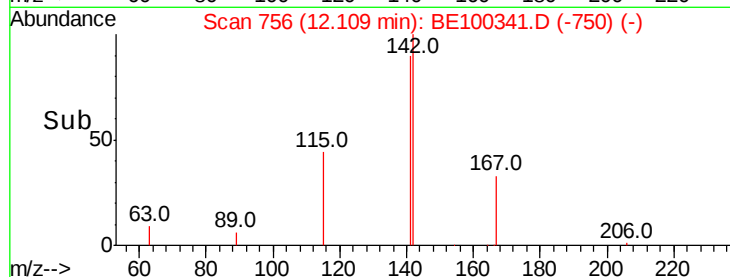
300

200

100

0

Time-->



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.31 min Scan# 909

Delta R.T. 0.00 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

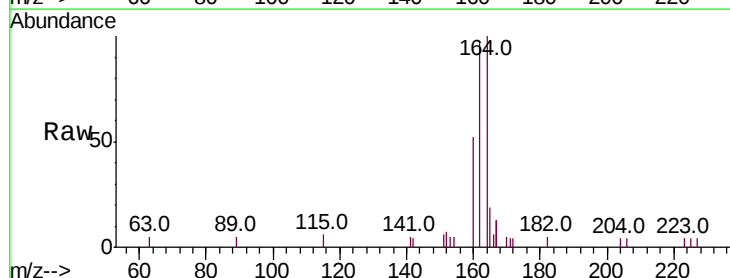
Tgt Ion:164 Resp: 1808

Ion Ratio Lower Upper

164 100

162 97.3 83.4 125.0

160 52.1 45.0 67.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

14.31

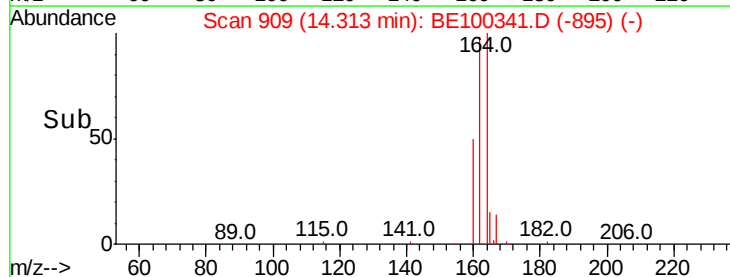
1500

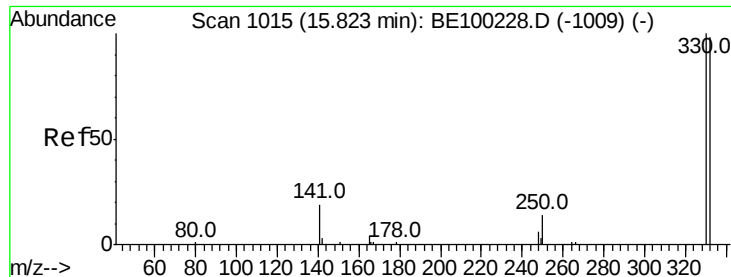
1000

500

0

Time-->

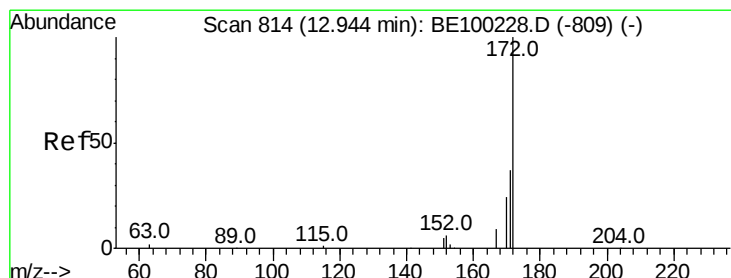
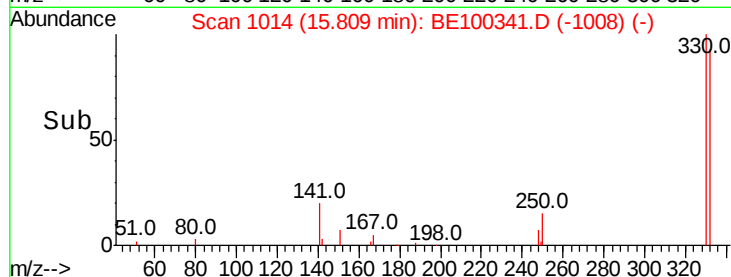
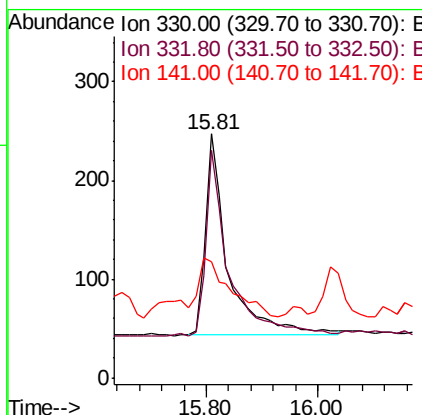
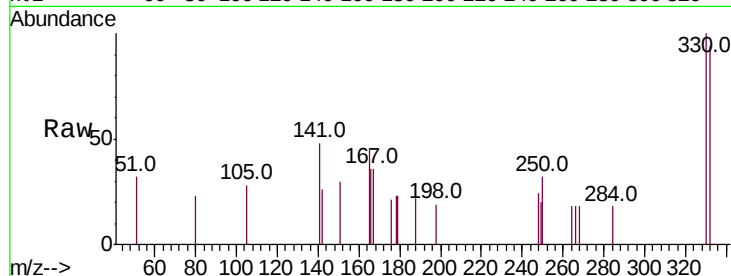




#14  
 2,4,6-Tribromophenol  
 Concen: 0.444 ng  
 RT: 15.81 min Scan# 1014  
 Delta R.T. -0.01 min  
 Lab File: BE100341.D  
 Acq: 3 Jul 2019 22:42

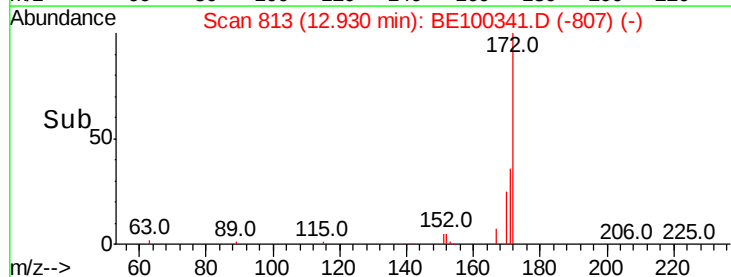
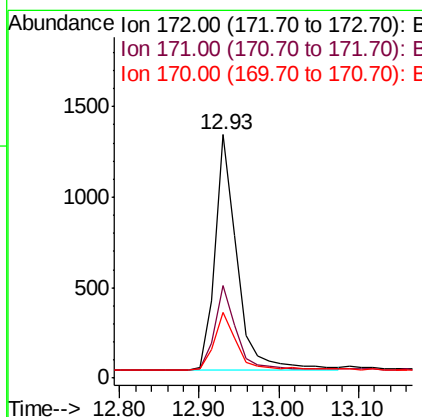
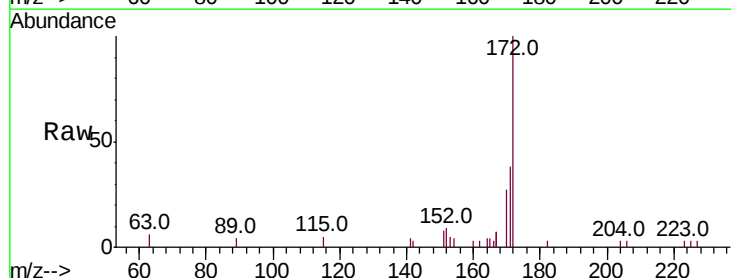
Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-009-SW137-062419

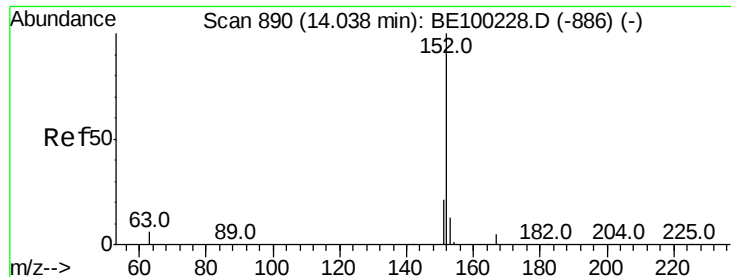
Tot Ion:330 Resp: 561  
 Ion Ratio Lower Upper  
 330 100  
 332 95.5 77.0 115.4  
 141 41.0 22.0 33.0#



#15  
 2-Fluorobiphenyl  
 Concen: 0.357 ng  
 RT: 12.93 min Scan# 813  
 Delta R.T. -0.01 min  
 Lab File: BE100341.D  
 Acq: 3 Jul 2019 22:42

Tgt Ion:172 Resp: 2513  
 Ion Ratio Lower Upper  
 172 100  
 171 37.9 31.9 47.9  
 170 27.2 22.2 33.2





#16

Acenaphthylene

Concen: 0.417 ng

RT: 14.03 min Scan# 889

Delta R.T. -0.01 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

BNA\_E

ClientSampleId :

EXT-009-SW137-062419

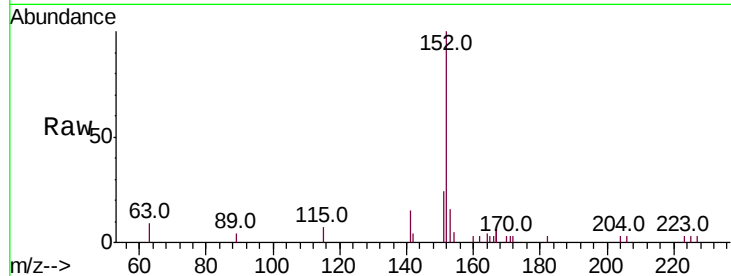
Tot Ion:152 Resp: 3621

Ion Ratio Lower Upper

152 100

151 20.3 16.6 25.0

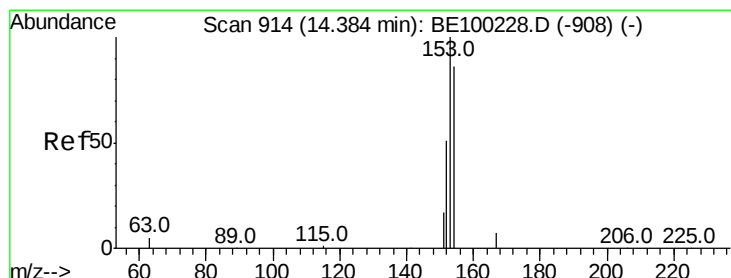
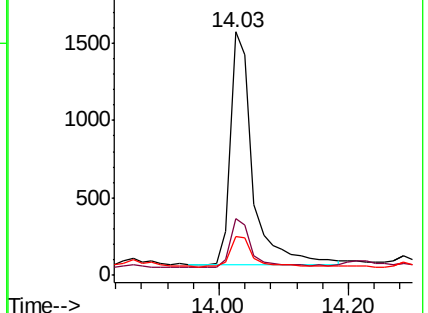
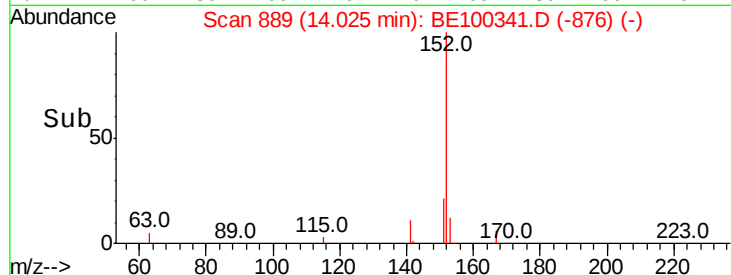
153 13.6 10.5 15.7



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: 0.050 ng

RT: 14.37 min Scan# 913

Delta R.T. -0.01 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

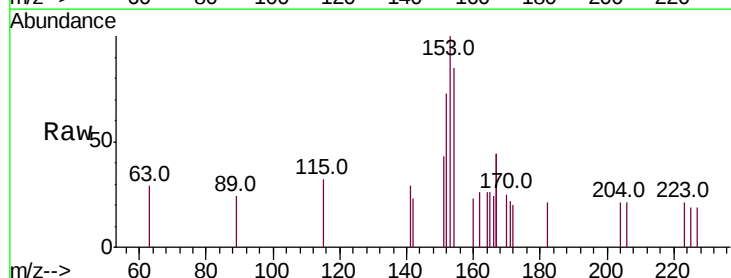
Tgt Ion:154 Resp: 245

Ion Ratio Lower Upper

154 100

153 116.3 93.4 140.2

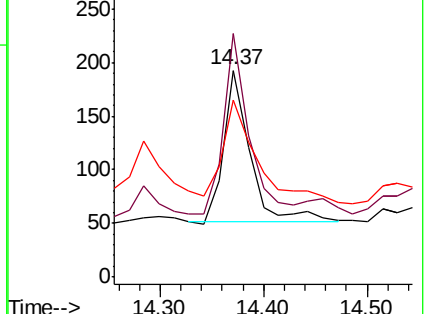
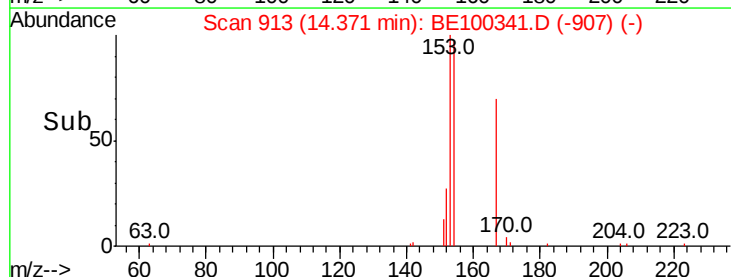
152 87.3 49.4 74.2#

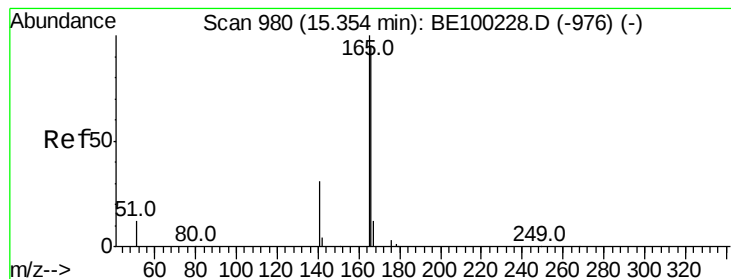


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 0.118 ng

RT: 15.35 min Scan# 980

Delta R.T. -0.00 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

BNA\_E

ClientSampleId :

EXT-009-SW137-062419

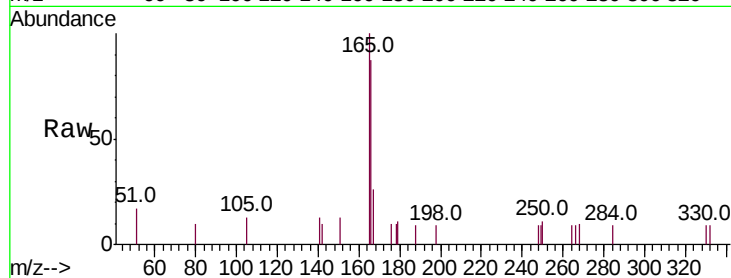
Tot Ion:166 Resp: 856

Ion Ratio Lower Upper

166 100

165 122.3 81.1 121.7#

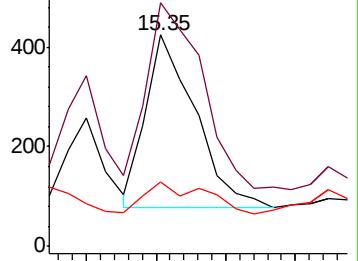
167 22.8 10.7 16.1#



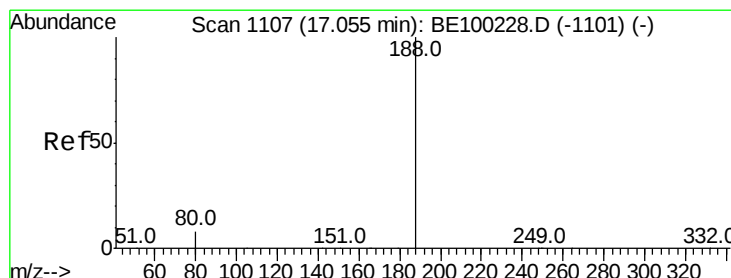
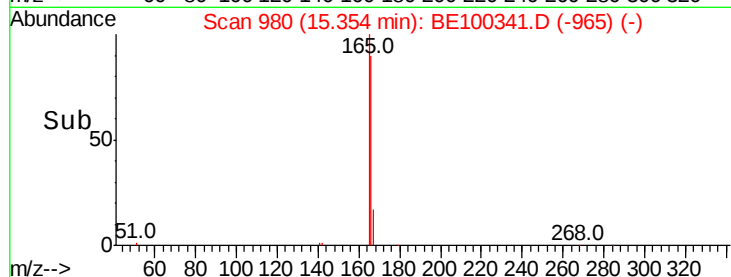
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.05 min Scan# 1107

Delta R.T. -0.00 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

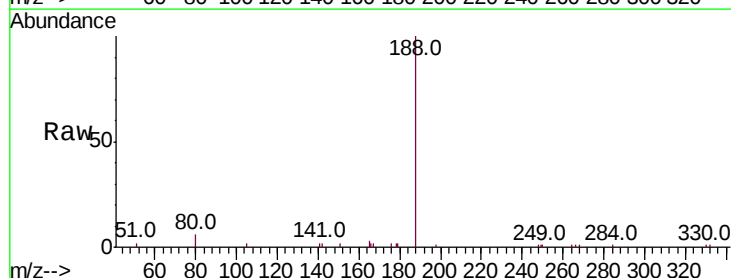
Tgt Ion:188 Resp: 5662

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

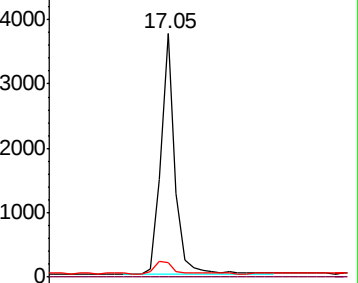
80 6.1 7.6 11.4#



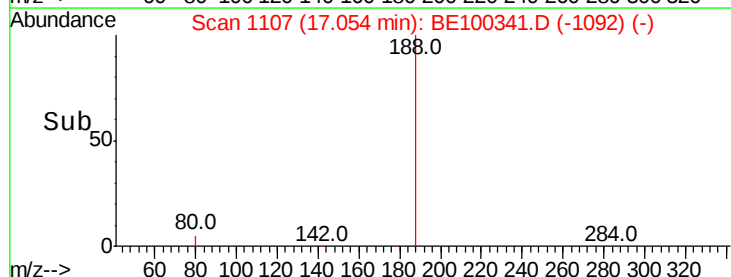
Abundance Ion 188.00 (187.70 to 188.70): E

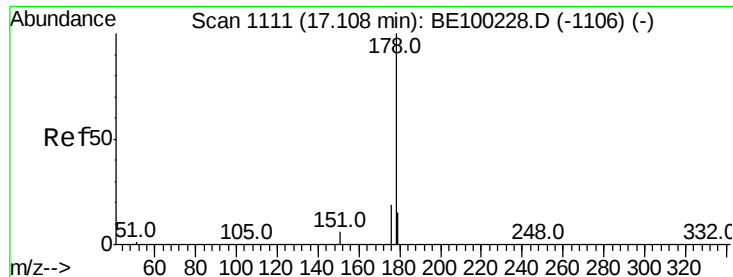
Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



Time-->





#23

Phenanthrene

Concen: 1.715 ng

RT: 17.09 min Scan# 1110

Delta R.T. -0.01 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

BNA\_E

ClientSampleId :

EXT-009-SW137-062419

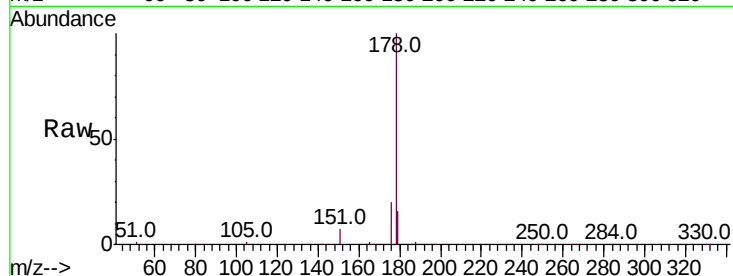
Tot Ion:178 Resp: 23529

Ion Ratio Lower Upper

178 100

176 19.7 15.9 23.9

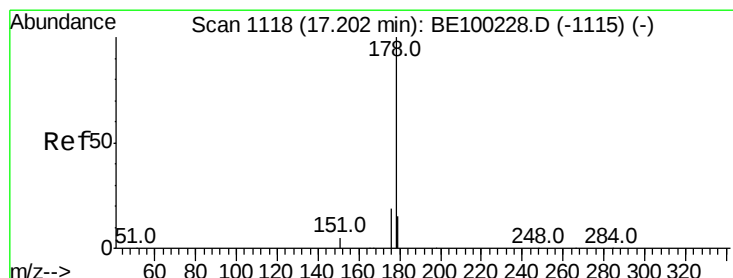
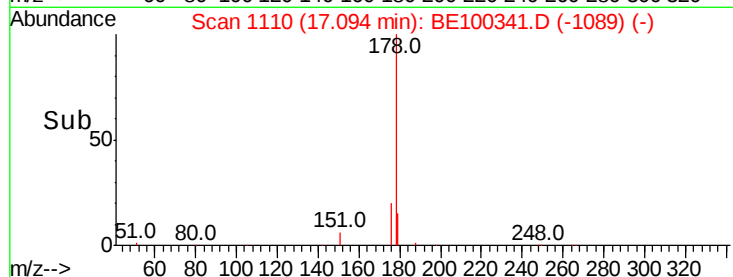
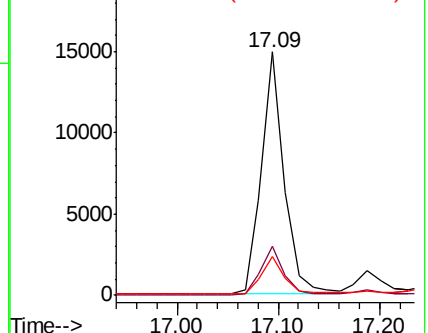
179 16.1 12.2 18.2



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: 0.195 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.01 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

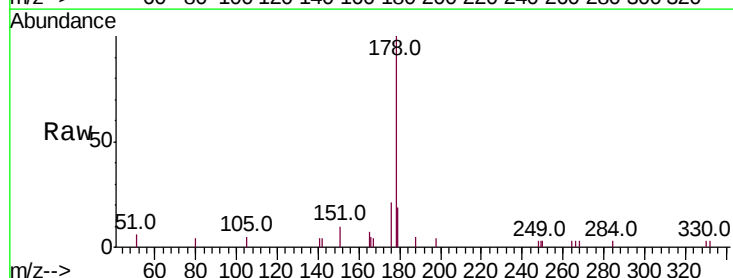
Tgt Ion:178 Resp: 2412

Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

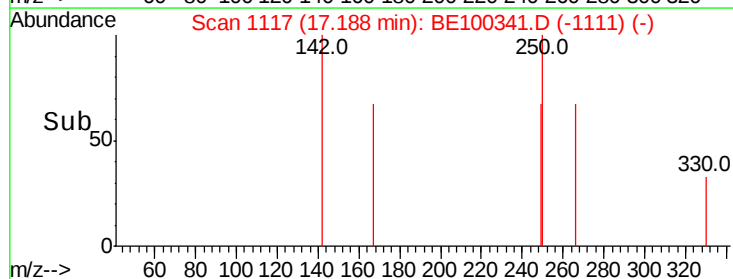
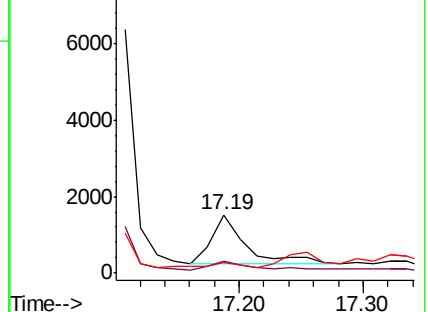
179 6.5 12.2 18.2#

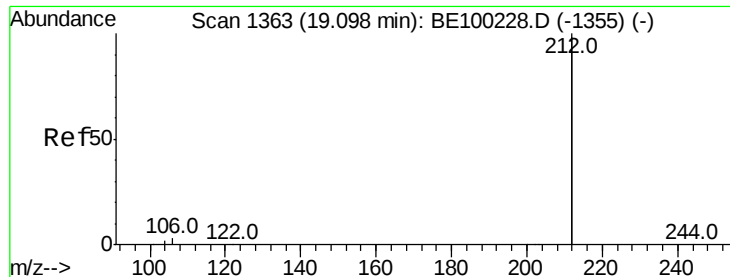


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.357 ng

RT: 19.09 min Scan# 1362

Delta R.T. -0.01 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

BNA\_E

ClientSampleId :

EXT-009-SW137-062419

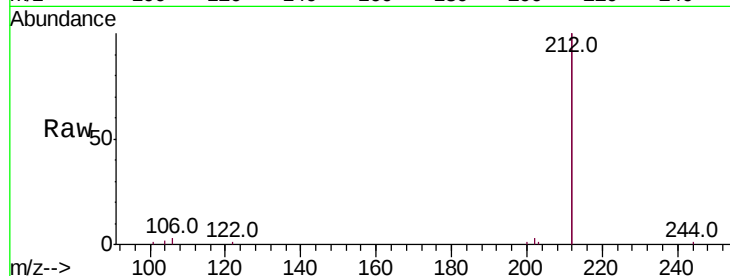
Tot Ion:212 Resp: 29328

Ion Ratio Lower Upper

212 100

106 1.5 1.3 1.9

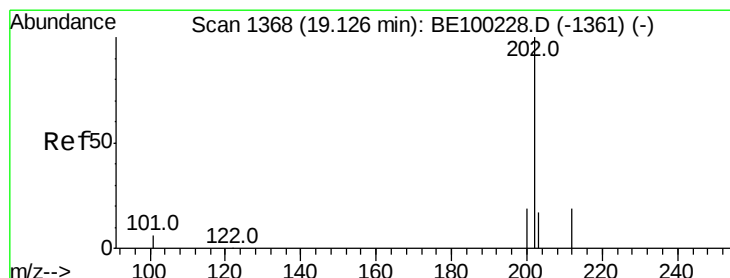
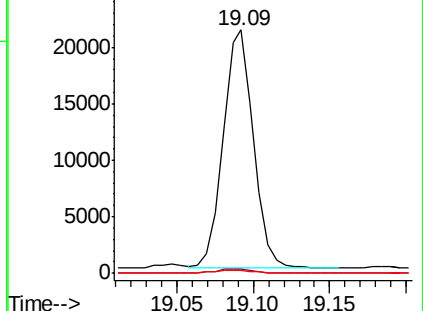
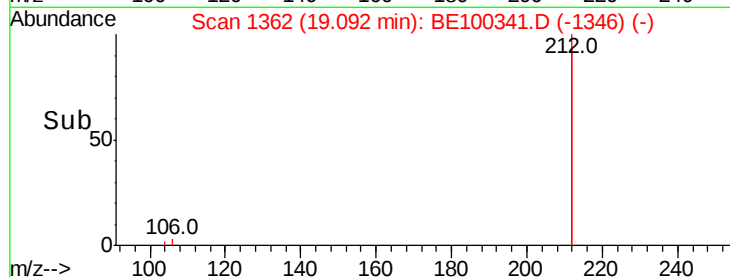
104 0.9 0.8 1.2



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: 1.978 ng

RT: 19.12 min Scan# 1367

Delta R.T. -0.01 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

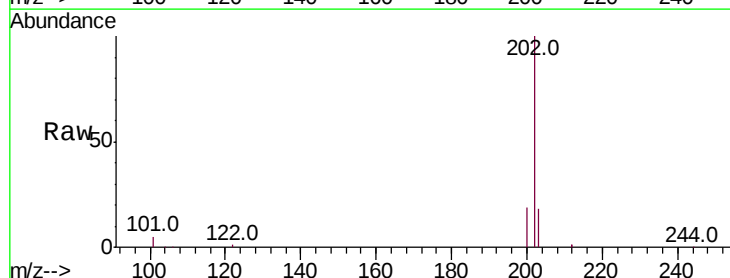
Tgt Ion:202 Resp: 43240

Ion Ratio Lower Upper

202 100

101 5.6 4.6 7.0

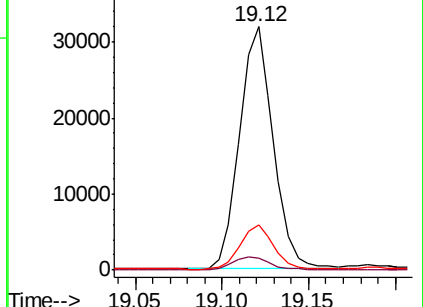
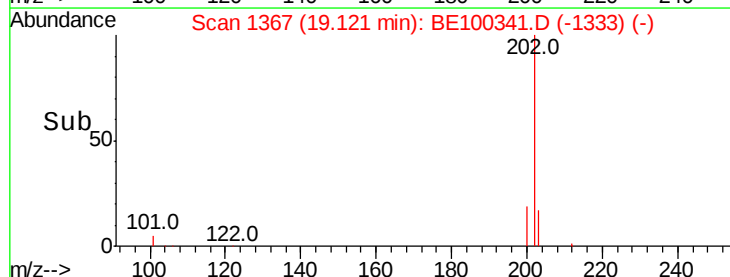
203 18.0 13.7 20.5

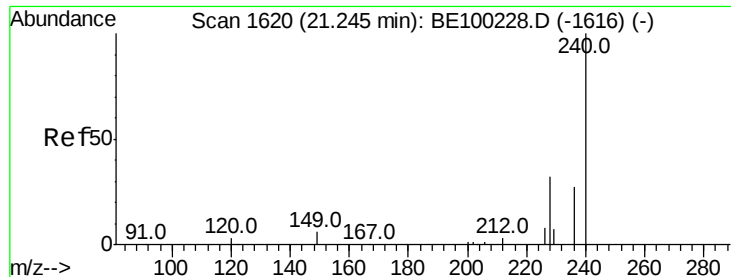


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

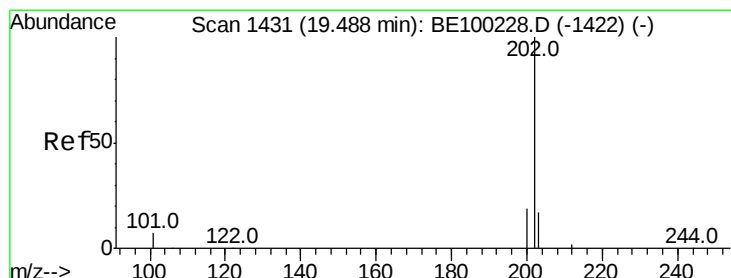
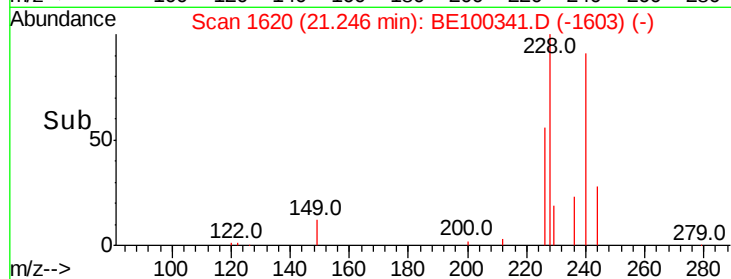
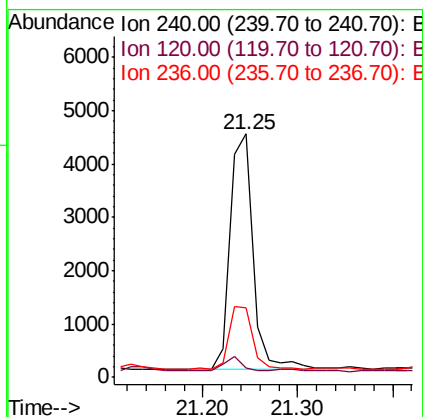
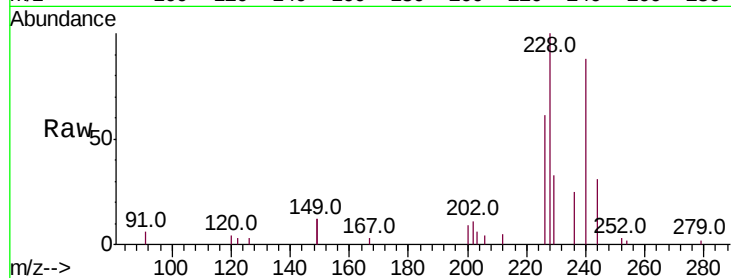




#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.25 min Scan# 1620  
Delta R.T. 0.00 min  
Lab File: BE100341.D  
Acq: 3 Jul 2019 22:42

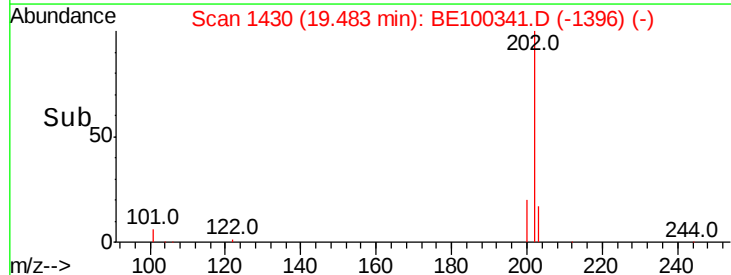
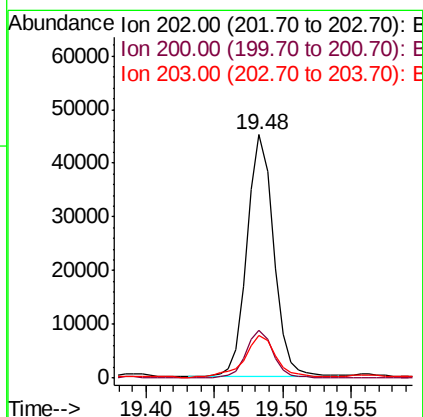
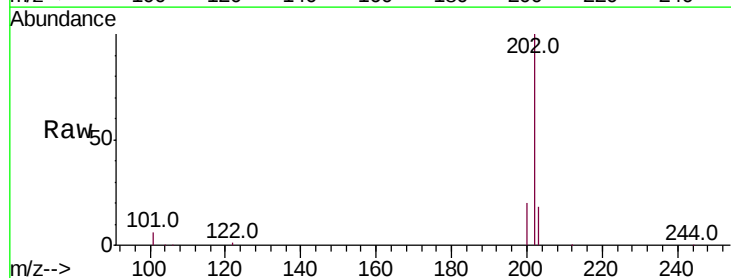
Instrument :  
BNA\_E  
ClientSampleId :  
EXT-009-SW137-062419

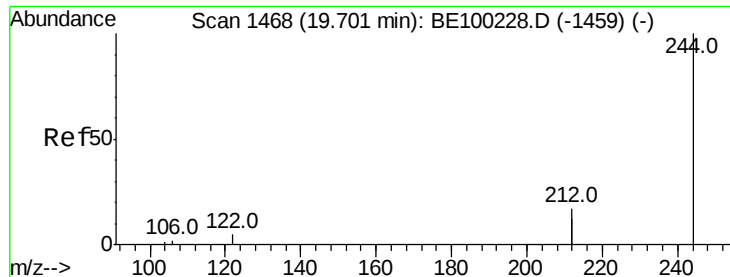
Tot Ion:240 Resp: 7466  
Ion Ratio Lower Upper  
240 100  
120 4.0 3.3 4.9  
236 28.6 22.6 34.0



#28  
Pyrene  
Concen: 3.081 ng  
RT: 19.48 min Scan# 1430  
Delta R.T. -0.01 min  
Lab File: BE100341.D  
Acq: 3 Jul 2019 22:42

Tgt Ion:202 Resp: 60891  
Ion Ratio Lower Upper  
202 100  
200 19.7 15.6 23.4  
203 20.0 14.0 21.0





#29

Terphenyl-d14

Concen: 0.444 ng

RT: 19.69 min Scan# 1466

Delta R.T. -0.01 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

BNA\_E

ClientSampleId :

EXT-009-SW137-062419

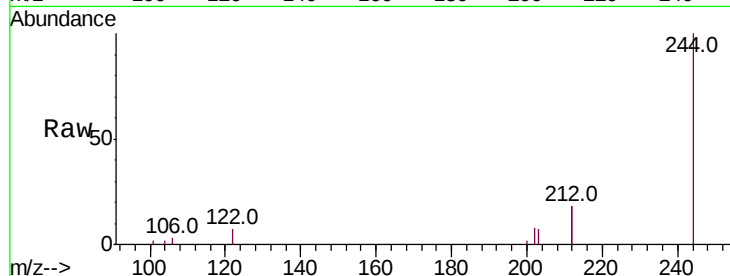
Tot Ion:244 Resp: 6878

Ion Ratio Lower Upper

244 100

212 36.1 27.3 40.9

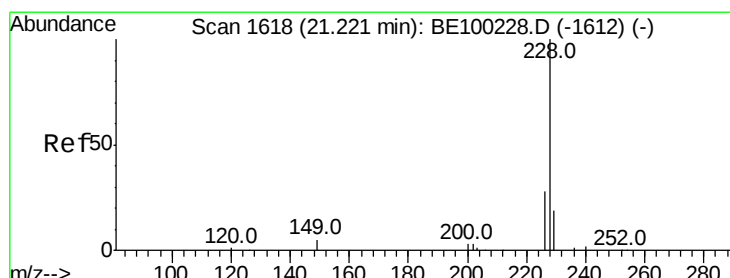
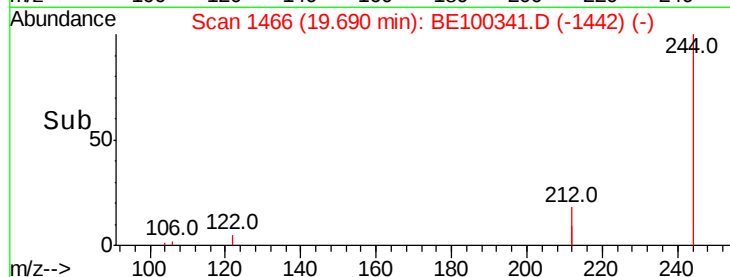
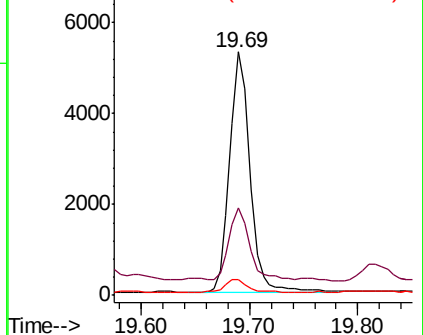
122 6.6 4.7 7.1



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: 1.201 ng

RT: 21.22 min Scan# 1618

Delta R.T. 0.00 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

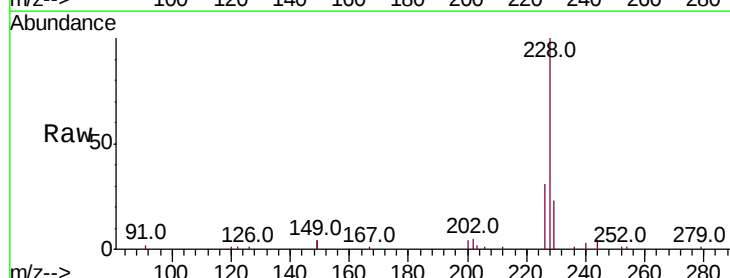
Tgt Ion:228 Resp: 29483

Ion Ratio Lower Upper

228 100

226 30.5 23.2 34.8

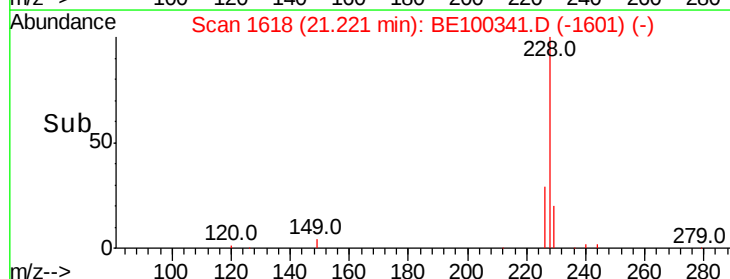
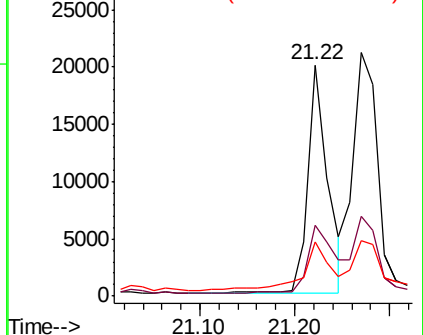
229 23.3 15.7 23.5

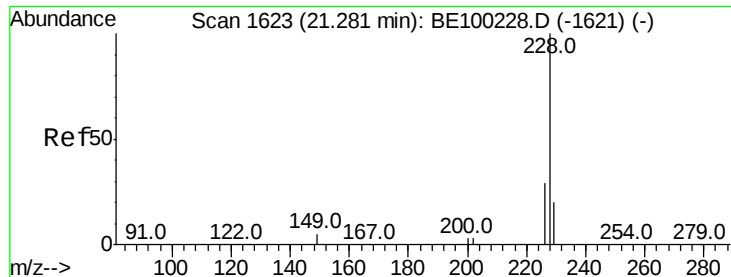


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 1.512 ng

RT: 21.27 min Scan# 1622

Delta R.T. -0.01 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

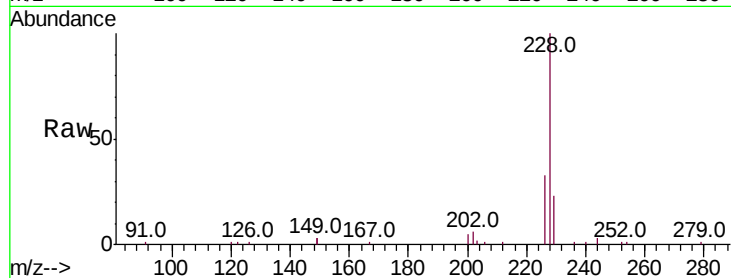
BNA\_E

ClientSampleId :

EXT-009-SW137-062419

Tot Ion:228 Resp: 37273

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 33.0  | 23.9  | 35.9  |
| 229 | 22.7  | 16.5  | 24.7  |

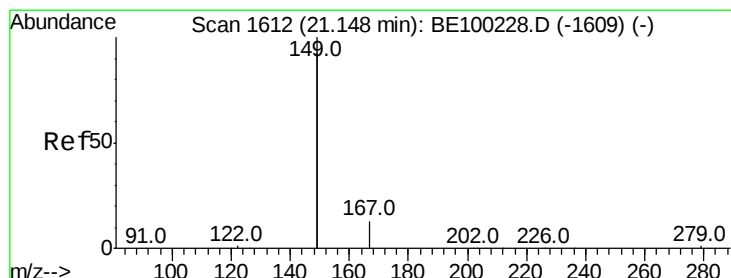
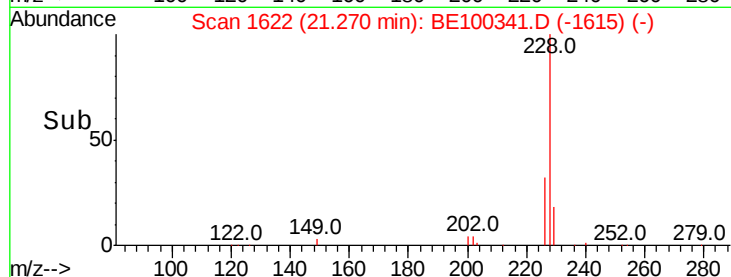
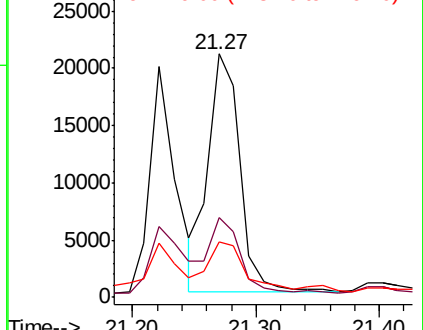


Abundance

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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.568 ng

RT: 21.15 min Scan# 1612

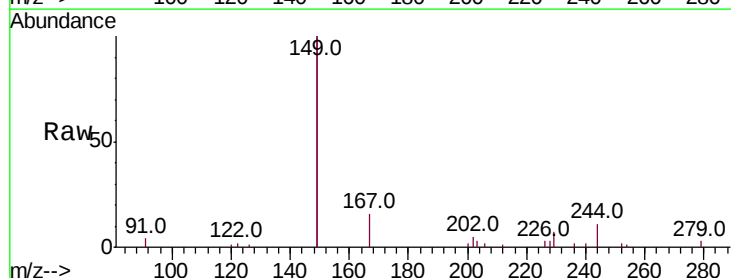
Delta R.T. 0.00 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Tgt Ion:149 Resp: 21694

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 7.4   | 5.8   | 8.8   |
| 279 | 1.6   | 1.1   | 1.7   |

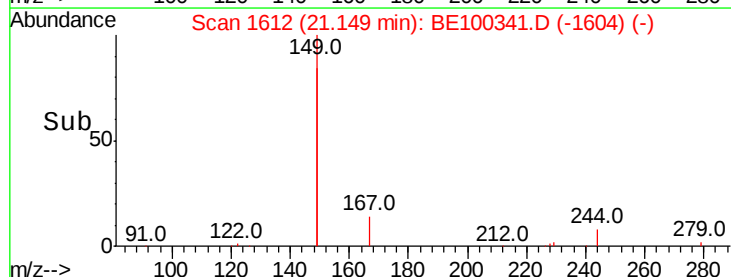
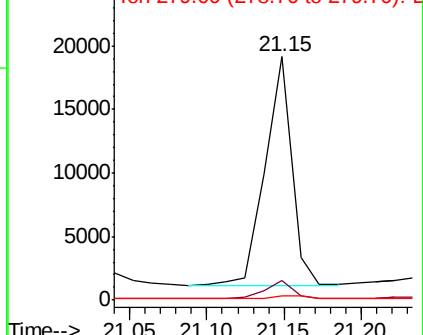


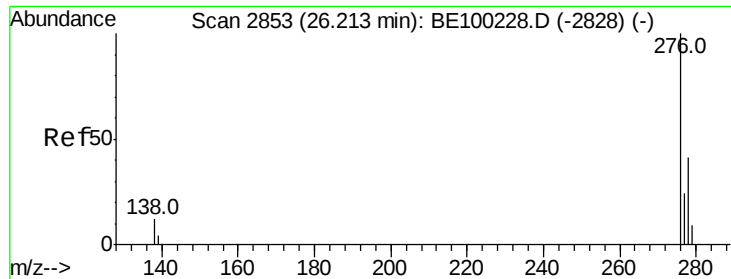
Abundance

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: 0.548 ng

RT: 26.22 min Scan# 2854

Delta R.T. 0.00 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

BNA\_E

ClientSampleId :

EXT-009-SW137-062419

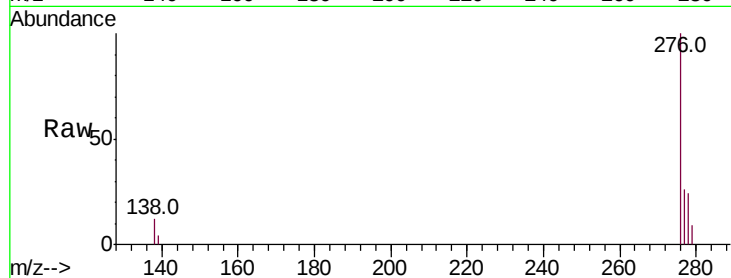
Tot Ion:276 Resp: 17869

Ion Ratio Lower Upper

276 100

138 9.4 9.4 14.0

277 24.2 19.2 28.8

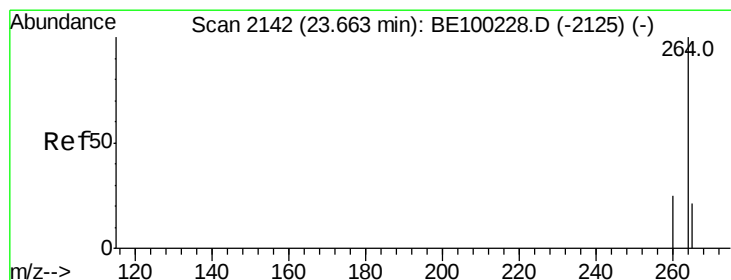
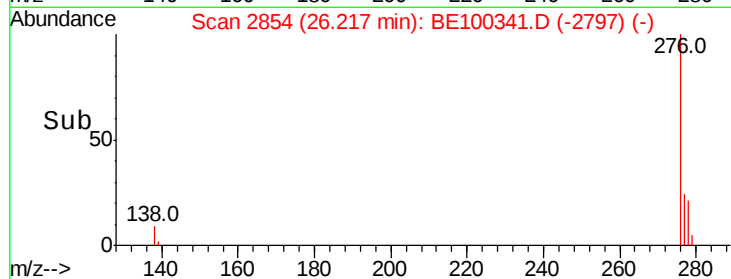
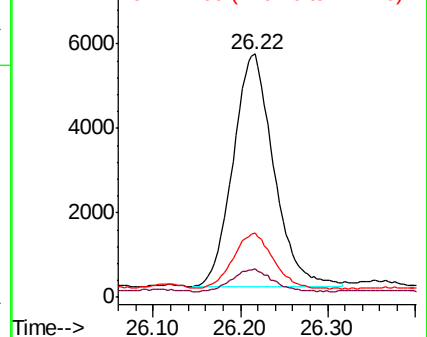


Abundance

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: 23.66 min Scan# 2141

Delta R.T. -0.00 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

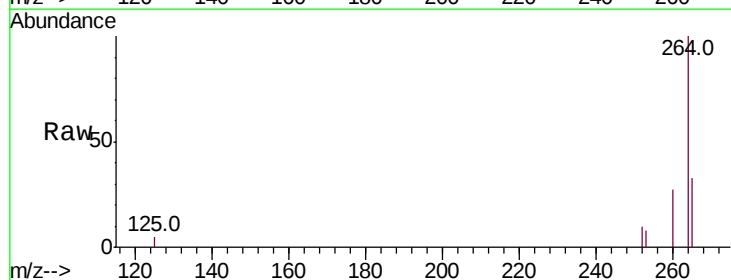
Tgt Ion:264 Resp: 8777

Ion Ratio Lower Upper

264 100

260 27.2 20.8 31.2

265 32.9 21.8 32.6#

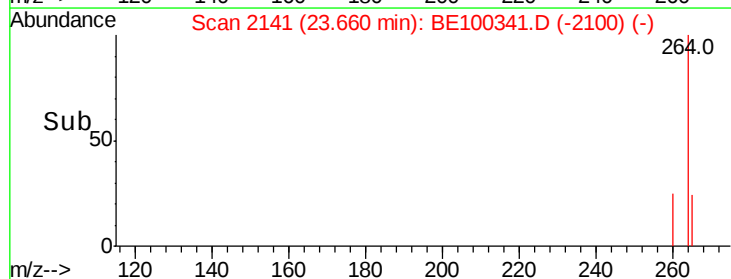
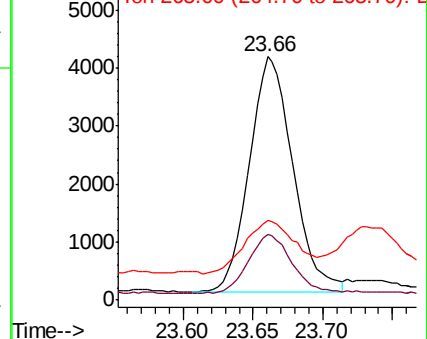


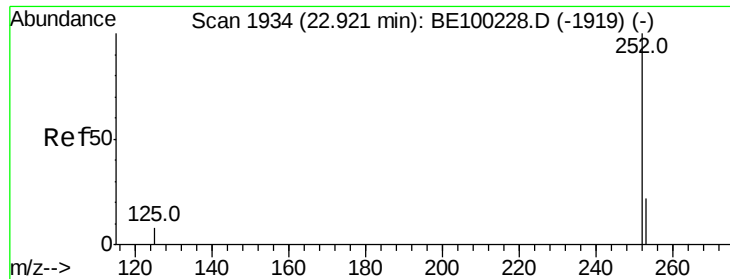
Abundance

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: 1.445 ng

RT: 22.92 min Scan# 1934

Delta R.T. 0.00 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

BNA\_E

ClientSampleId :

EXT-009-SW137-062419

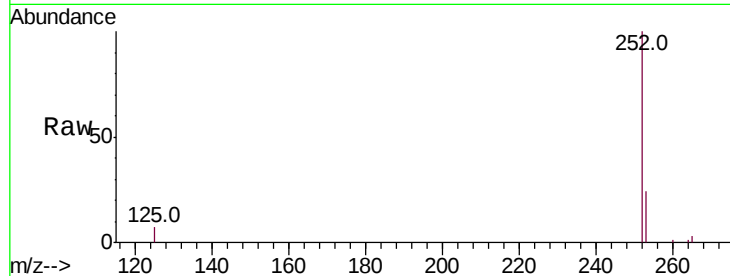
Tot Ion:252 Resp: 34392

Ion Ratio Lower Upper

252 100

253 23.7 19.2 28.8

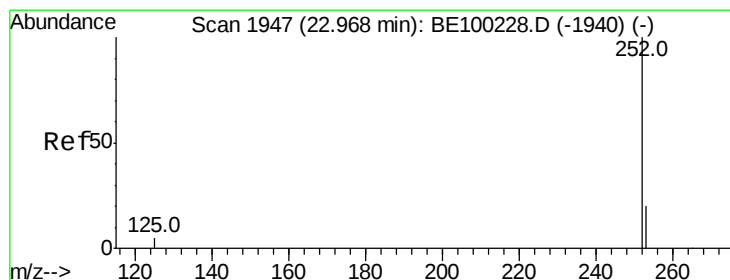
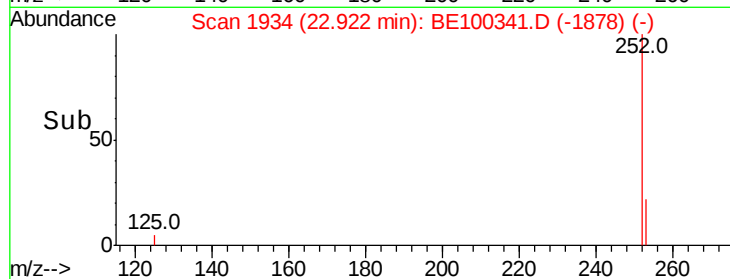
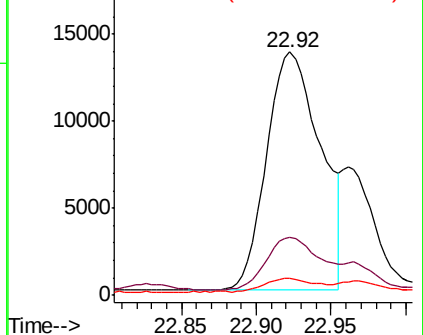
125 6.8 7.4 11.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 1.295 ng

RT: 22.92 min Scan# 1934

Delta R.T. -0.05 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

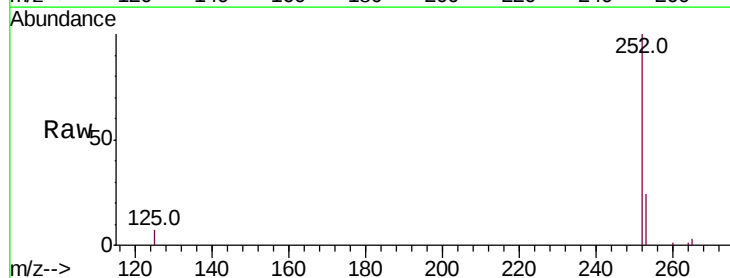
Tgt Ion:252 Resp: 34392

Ion Ratio Lower Upper

252 100

253 23.7 17.9 26.9

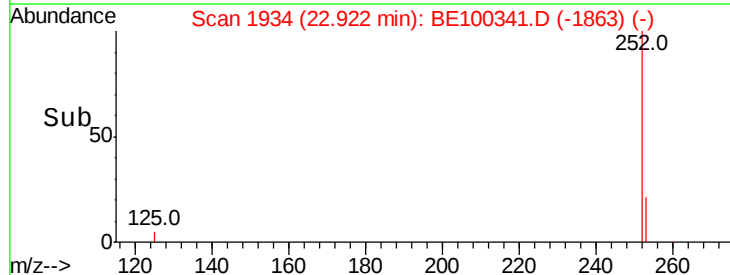
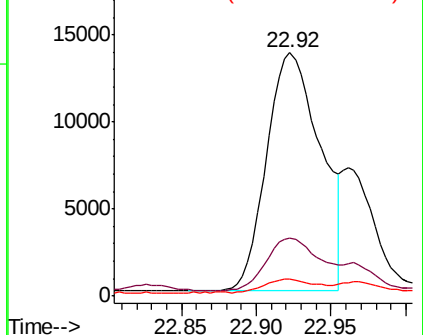
125 6.8 5.0 7.4

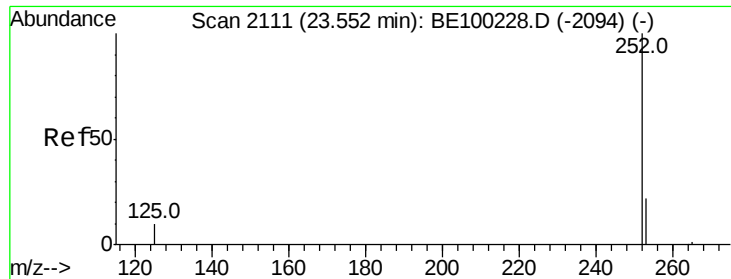


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 1.030 ng

RT: 23.55 min Scan# 2111

Delta R.T. 0.00 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

BNA\_E

ClientSampleId :

EXT-009-SW137-062419

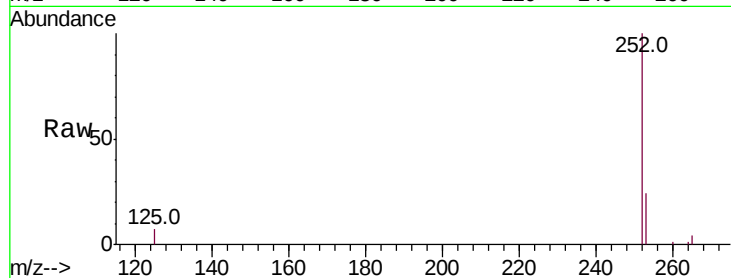
Tot Ion:252 Resp: 24577

Ion Ratio Lower Upper

252 100

253 24.4 19.6 29.4

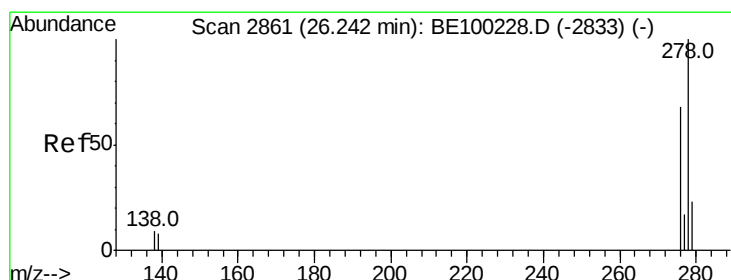
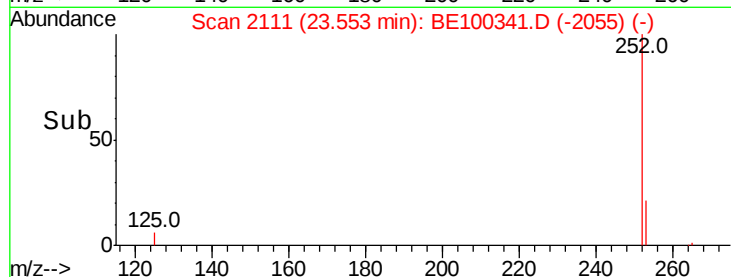
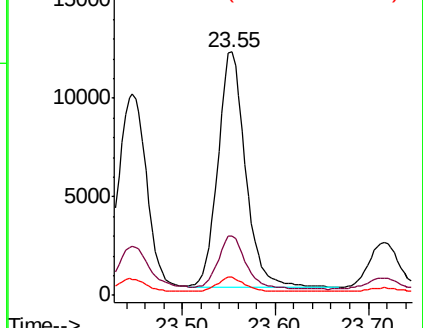
125 7.3 9.0 13.6#



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: 0.183 ng

RT: 26.22 min Scan# 2856

Delta R.T. -0.02 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

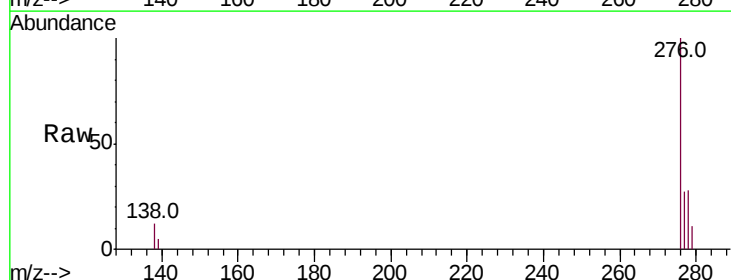
Tgt Ion:278 Resp: 4555

Ion Ratio Lower Upper

278 100

139 16.3 8.2 12.2#

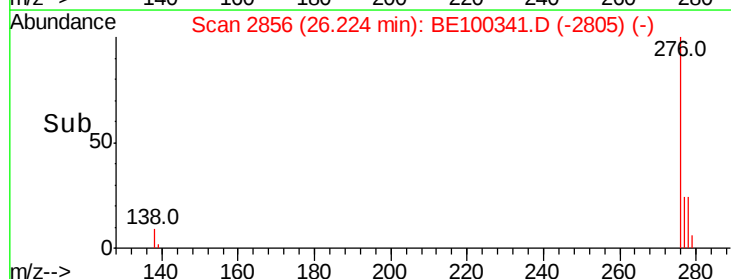
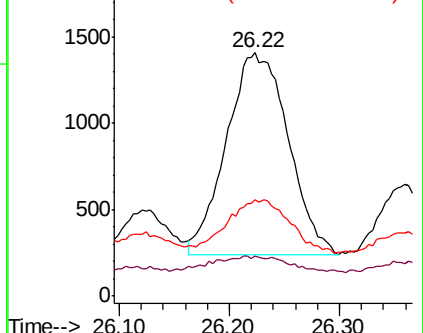
279 39.5 20.3 30.5#

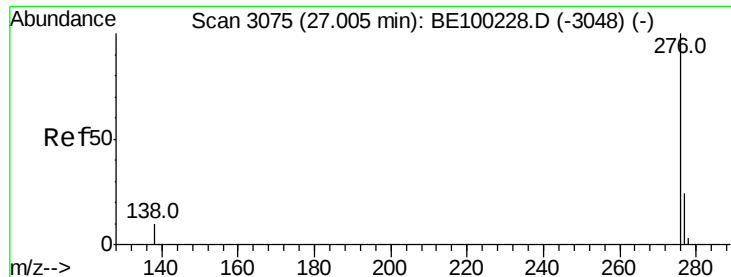


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.820 ng

RT: 27.00 min Scan# 3074

Delta R.T. -0.00 min

Lab File: BE100341.D

Acq: 3 Jul 2019 22:42

Instrument :

BNA\_E

ClientSampleId :

EXT-009-SW137-062419

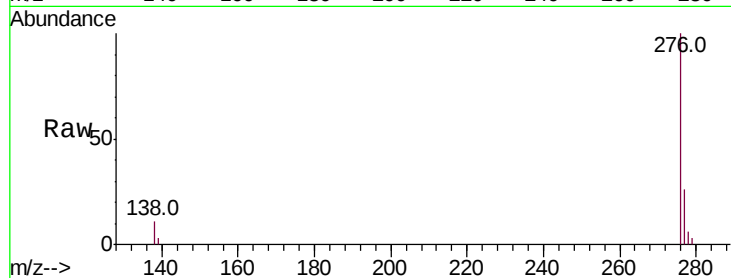
Tot Ion: 276 Resp: 20977

Ion Ratio Lower Upper

276 100

277 25.8 20.2 30.2

138 11.1 9.0 13.6



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

