

Data Path : Z:\svoasrv\HPCHEM1\BNA E\Data\BE011320\  
 Data File : BE101043.D  
 Acq On : 13 Jan 2020 18:12  
 Operator : JU  
 Sample : L1103-06  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SB-18(3-5)

Quant Time: Jan 14 09:54:45 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE010820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 08 18:36:25 2020  
 Response via : Initial Calibration

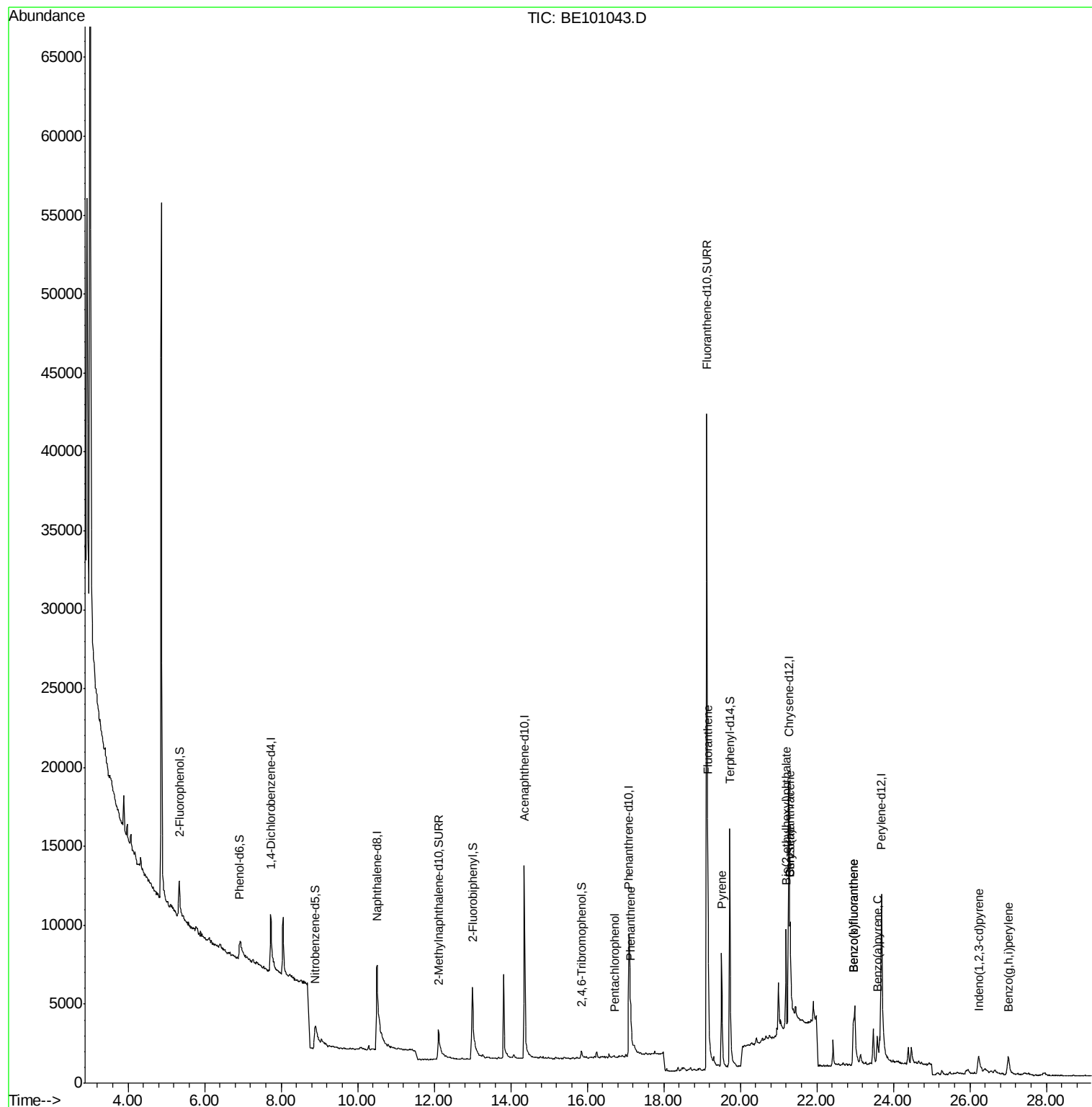
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 7.73  | 152  | 2984     | 0.40  | ng    | 0.00        |
| 7) Naphthalene-d8              | 10.51 | 136  | 12809    | 0.40  | ng    | 0.01        |
| 13) Acenaphthene-d10           | 14.36 | 164  | 8971     | 0.40  | ng    | 0.00        |
| 19) Phenanthrene-d10           | 17.09 | 188  | 19933    | 0.40  | ng    | 0.00        |
| 27) Chrysene-d12               | 21.27 | 240  | 19067    | 0.40  | ng    | -0.01       |
| 34) Perylene-d12               | 23.69 | 264  | 21432    | 0.40  | ng    | -0.01       |
| System Monitoring Compounds    |       |      |          |       |       |             |
| 4) 2-Fluorophenol              | 5.34  | 112  | 1766     | 0.26  | ng    | 0.00        |
| 5) Phenol-d6                   | 6.91  | 99   | 2096     | 0.25  | ng    | 0.00        |
| 8) Nitrobenzene-d5             | 8.89  | 82   | 1979     | 0.22  | ng    | 0.01        |
| 11) 2-Methylnaphthalene-d10    | 12.11 | 152  | 6856     | 0.28  | ng    | 0.00        |
| 14) 2,4,6-Tribromophenol       | 15.85 | 330  | 507      | 0.20  | ng    | 0.00        |
| 15) 2-Fluorobiphenyl           | 13.00 | 172  | 10974    | 0.32  | ng    | 0.00        |
| 25) Fluoranthene-d10           | 19.12 | 212  | 77334    | 0.28  | ng    | -0.01       |
| 29) Terphenyl-d14              | 19.73 | 244  | 18537    | 0.40  | ng    | 0.00        |
| Target Compounds               |       |      |          |       |       |             |
| 22) Pentachlorophenol          | 16.73 | 266  | 14       | 0.254 | ng    | Qvalue # 83 |
| 23) Phenanthrene               | 17.13 | 178  | 2311     | 0.042 | ng    | 96          |
| 26) Fluoranthene               | 19.15 | 202  | 9404     | 0.138 | ng    | 99          |
| 28) Pyrene                     | 19.51 | 202  | 8768     | 0.124 | ng    | 98          |
| 30) Benzo(a)anthracene         | 21.31 | 228  | 5707     | 0.105 | ng    | 92          |
| 31) Chrysene                   | 21.31 | 228  | 6458     | 0.080 | ng    | 95          |
| 32) Bis(2-ethylhexyl)phthalate | 21.20 | 149  | 8245     | 0.091 | ng    | # 99        |
| 33) Indeno(1,2,3-cd)pyrene     | 26.23 | 276  | 2843     | 0.044 | ng    | 97          |
| 35) Benzo(b)fluoranthene       | 22.96 | 252  | 6273     | 0.104 | ng    | # 89        |
| 36) Benzo(k)fluoranthene       | 22.96 | 252  | 6273     | 0.072 | ng    | # 91        |
| 37) Benzo(a)pyrene             | 23.58 | 252  | 3634     | 0.062 | ng    | # 81        |
| 39) Benzo(a,h,i)perylene       | 27.00 | 276  | 3264     | 0.050 | ng    | # 85        |

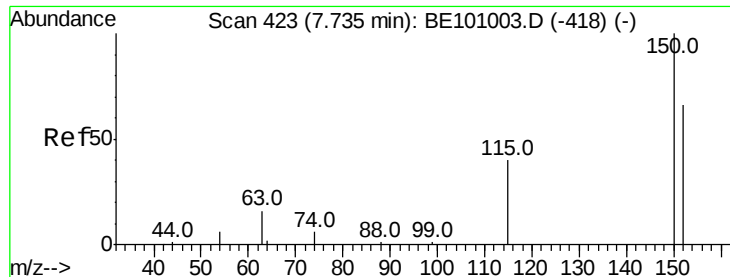
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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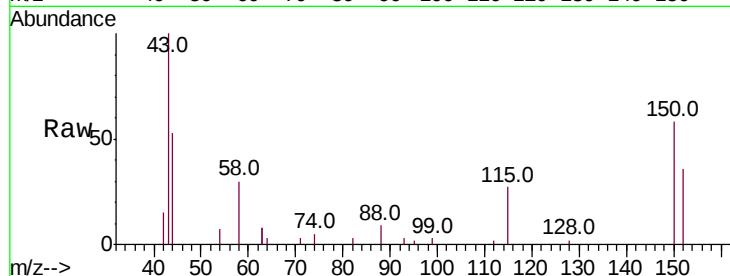


#1

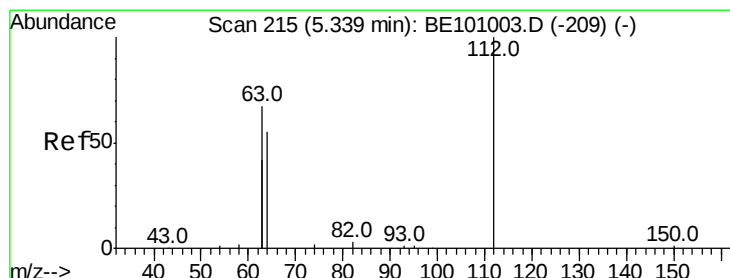
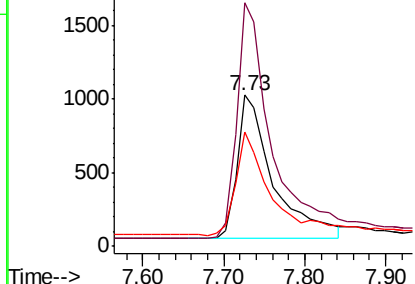
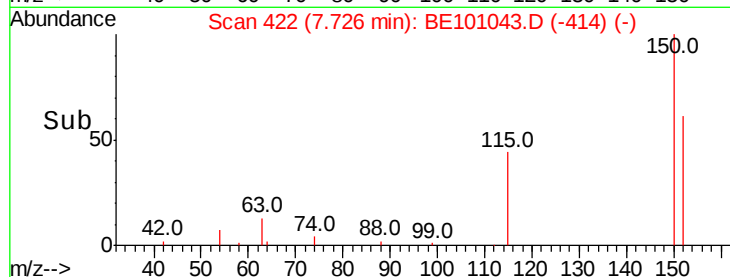
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.73 min Scan# 422  
Delta R.T. -0.01 min  
Lab File: BE101043.D  
Acq: 13 Jan 2020 18:12

Instrument :  
BNA\_E  
ClientSampleId :  
SB-18(3-5)

Tot Ion:152 Resp: 2984  
Ion Ratio Lower Upper  
152 100  
150 161.3 120.3 180.5  
115 75.4 51.7 77.5



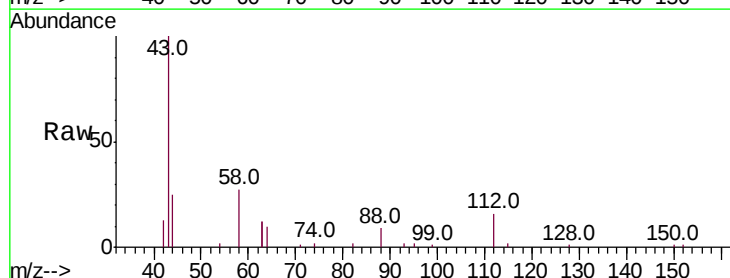
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



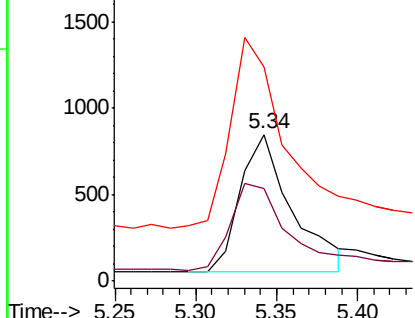
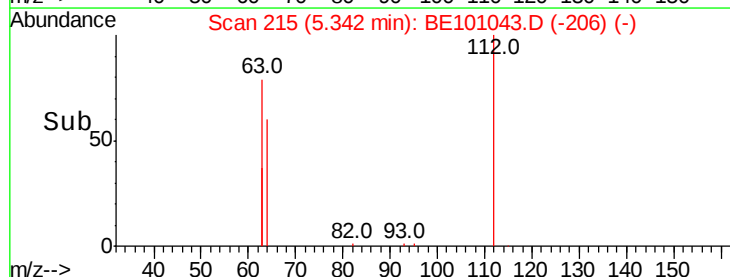
#4

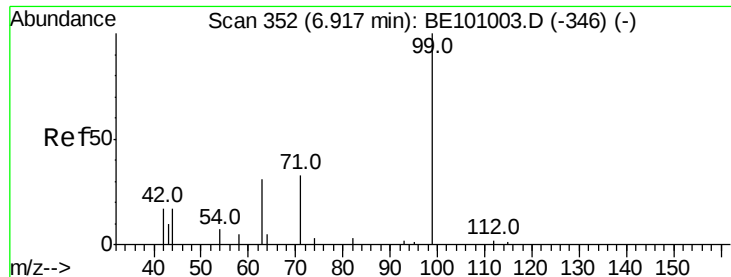
2-Fluorophenol  
Concen: 0.263 ng  
RT: 5.34 min Scan# 215  
Delta R.T. 0.00 min  
Lab File: BE101043.D  
Acq: 13 Jan 2020 18:12

Tgt Ion:112 Resp: 1766  
Ion Ratio Lower Upper  
112 100  
64 68.6 53.6 80.4  
63 149.7 114.6 172.0



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BE1  
Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.247 ng

RT: 6.91 min Scan# 351

Delta R.T. -0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA\_E

ClientSampleId :

SB-18(3-5)

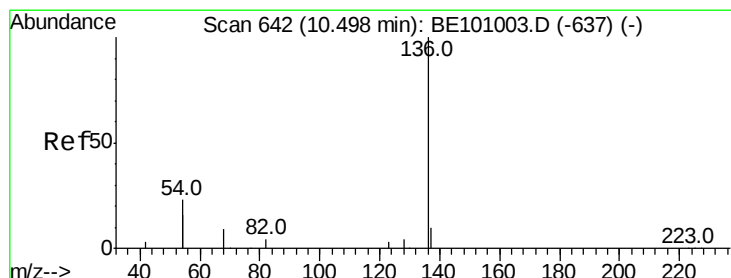
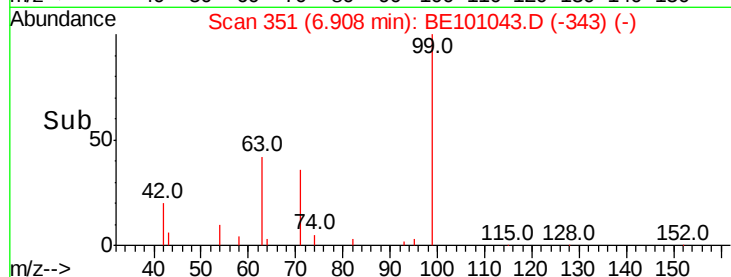
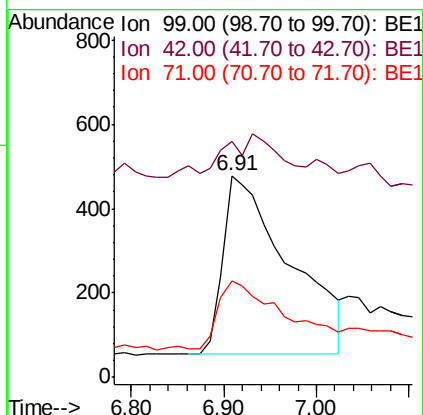
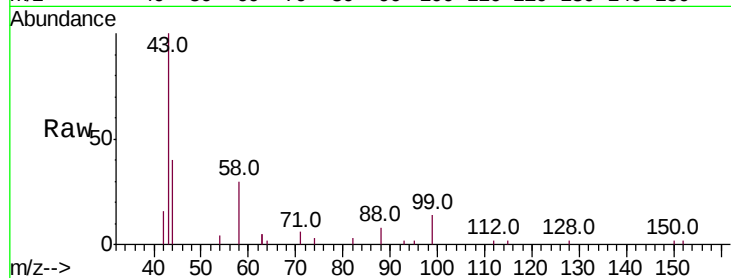
Tot Ion: 99 Resp: 2096

Ion Ratio Lower Upper

99 100

42 0.0 18.3 27.5#

71 40.0 28.0 42.0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.51 min Scan# 642

Delta R.T. 0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Tgt Ion: 136 Resp: 12809

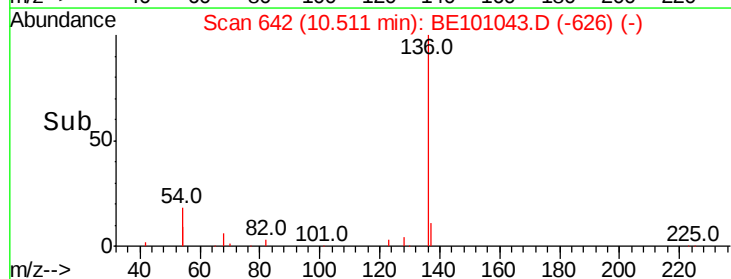
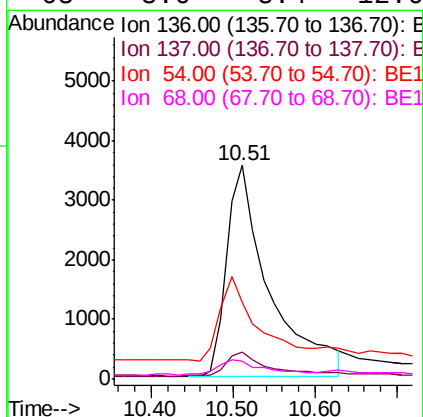
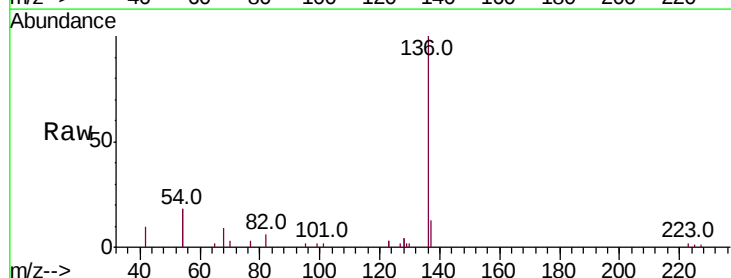
Ion Ratio Lower Upper

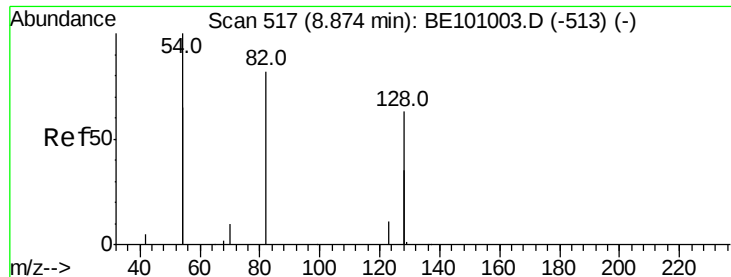
136 100

137 12.6 9.3 13.9

54 35.7 36.8 55.2#

68 8.6 8.4 12.6





#8

Nitrobenzene-d5

Concen: 0.216 ng

RT: 8.89 min Scan# 517

Delta R.T. 0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA\_E

ClientSampleId :

SB-18(3-5)

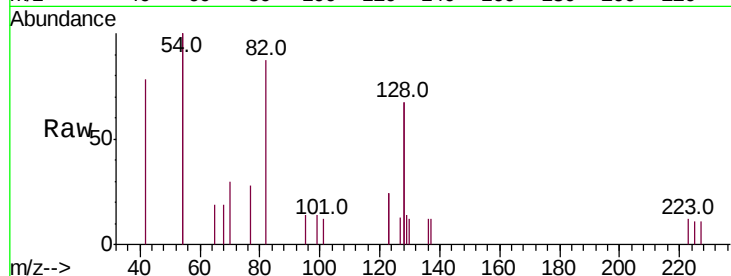
Tot Ion: 82 Resp: 1979

Ion Ratio Lower Upper

82 100

128 153.3 109.8 164.6

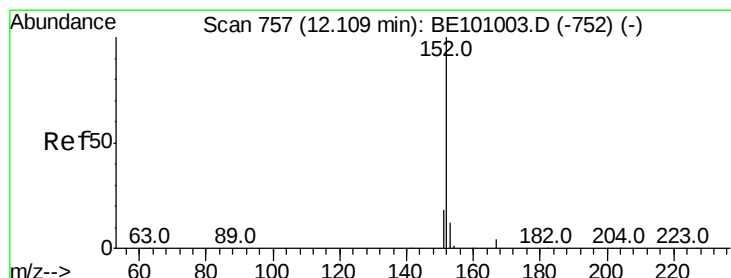
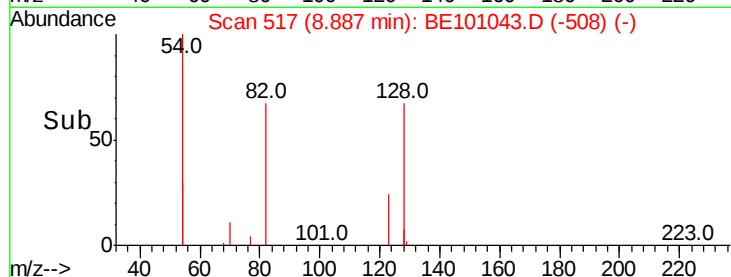
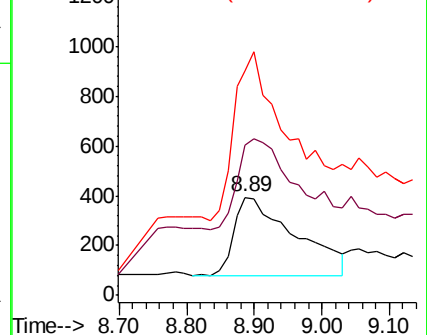
54 228.9 174.5 261.7



Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): BE1

Ion 54.00 (53.70 to 54.70): BE1



#11

2-Methylnaphthalene-d10

Concen: 0.280 ng

RT: 12.11 min Scan# 756

Delta R.T. 0.00 min

Lab File: BE101043.D

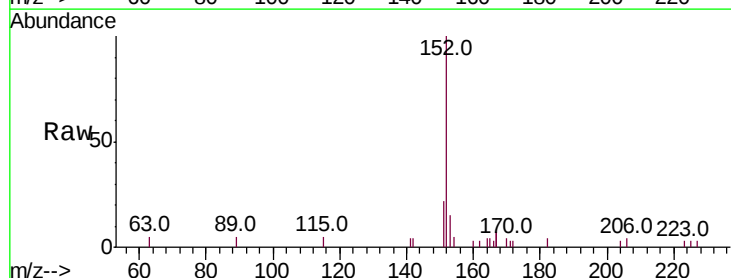
Acq: 13 Jan 2020 18:12

Tgt Ion: 152 Resp: 6856

Ion Ratio Lower Upper

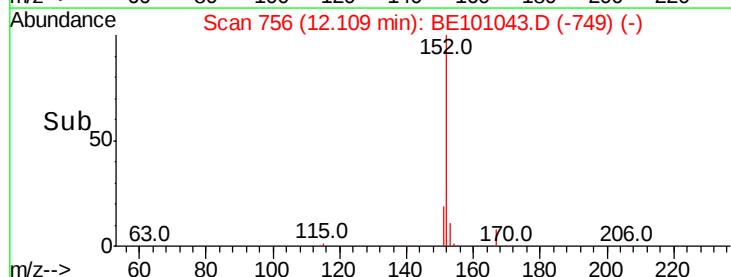
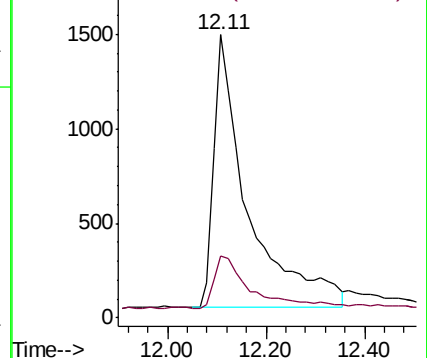
152 100

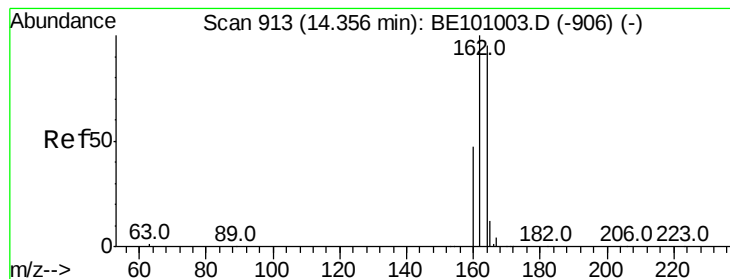
151 21.5 15.0 22.6



Abundance Ion 152.00 (151.70 to 152.70): BE1

Ion 151.00 (150.70 to 151.70): BE1





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.36 min Scan# 912

Delta R.T. 0.00 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA\_E

ClientSampleId :

SB-18(3-5)

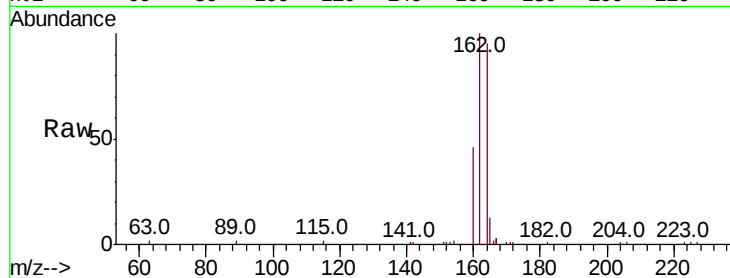
Tot Ion:164 Resp: 8971

Ion Ratio Lower Upper

164 100

162 105.6 84.1 126.1

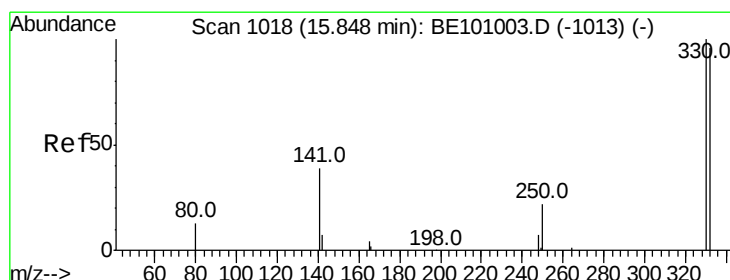
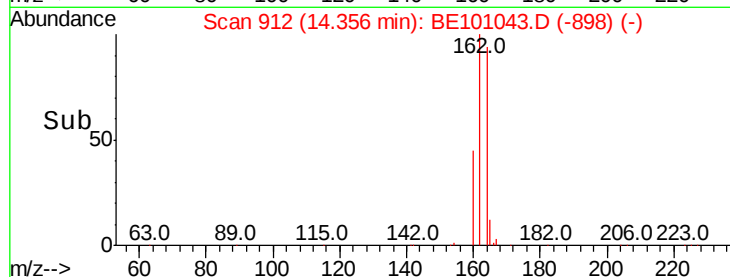
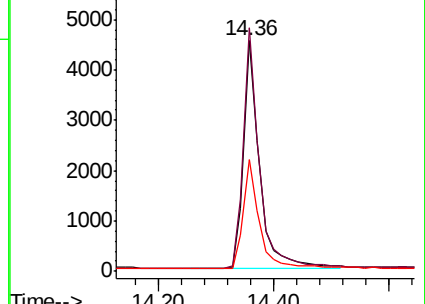
160 48.4 40.4 60.6



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

2,4,6-Tribromophenol

Concen: 0.200 ng

RT: 15.85 min Scan# 1017

Delta R.T. -0.00 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

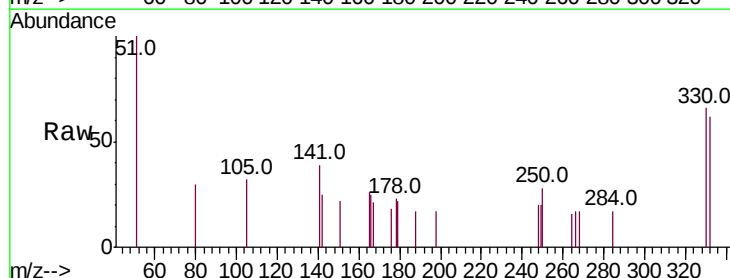
Tgt Ion:330 Resp: 507

Ion Ratio Lower Upper

330 100

332 94.7 78.4 117.6

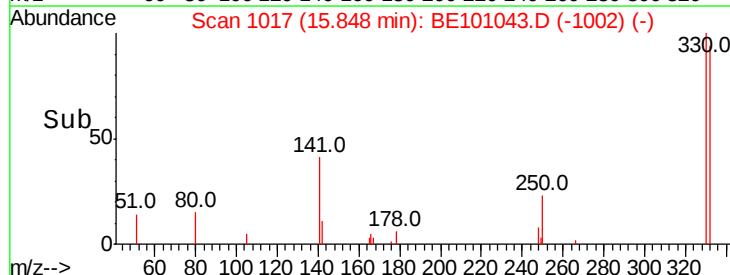
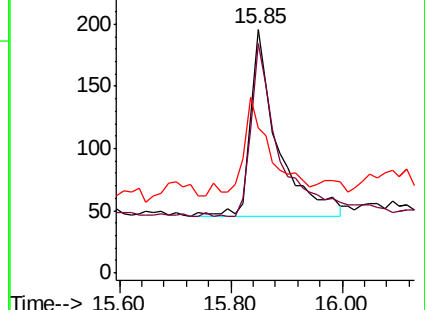
141 46.0 37.0 55.4

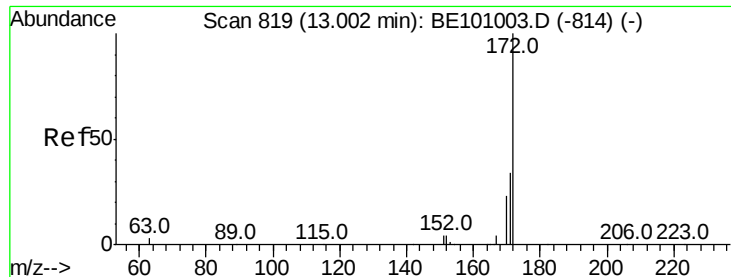


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

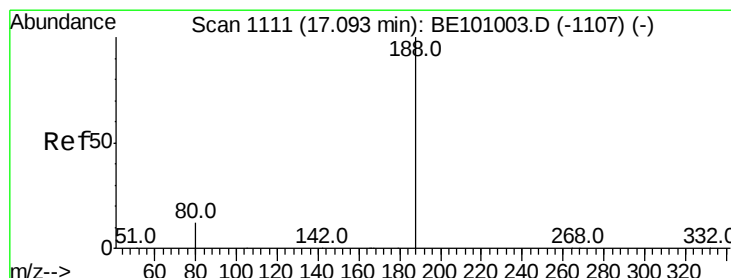
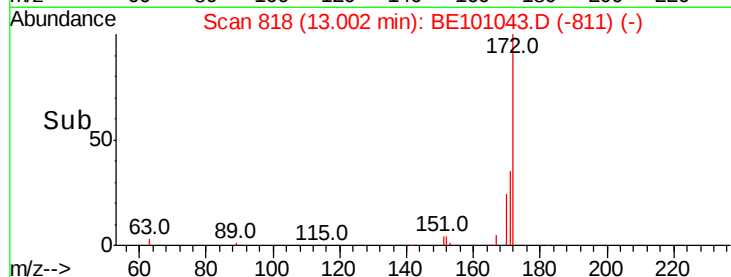
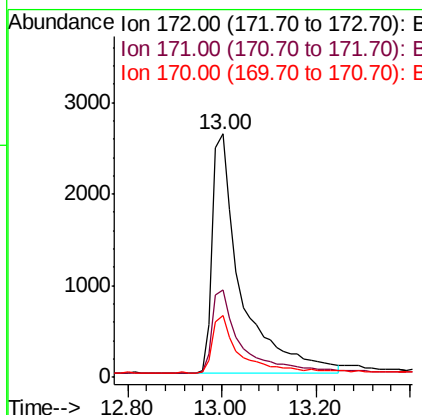
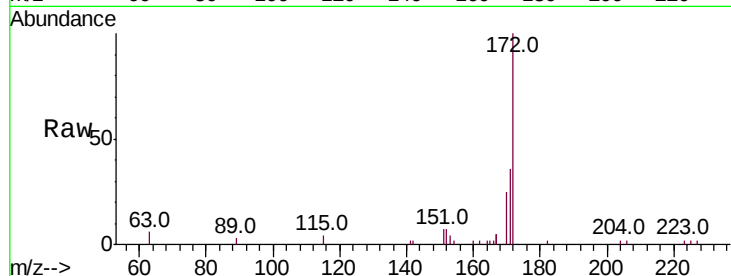




#15  
2-Fluorobiphenyl  
Concen: 0.322 ng  
RT: 13.00 min Scan# 818  
Delta R.T. 0.00 min  
Lab File: BE101043.D  
Acq: 13 Jan 2020 18:12

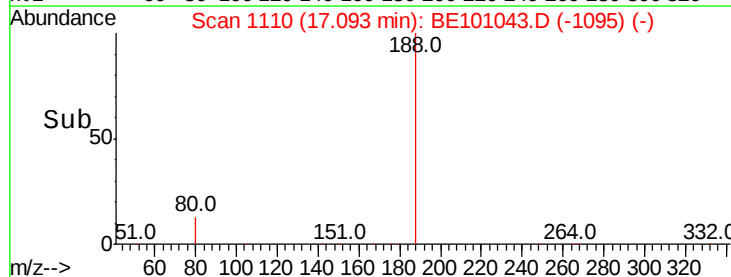
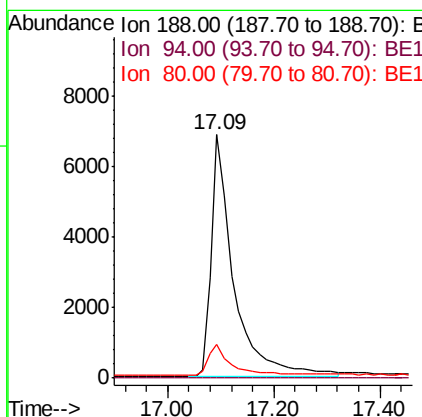
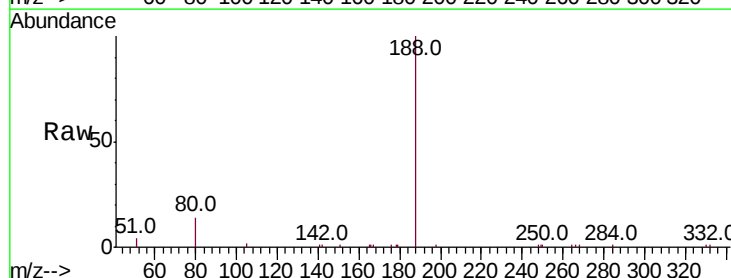
Instrument :  
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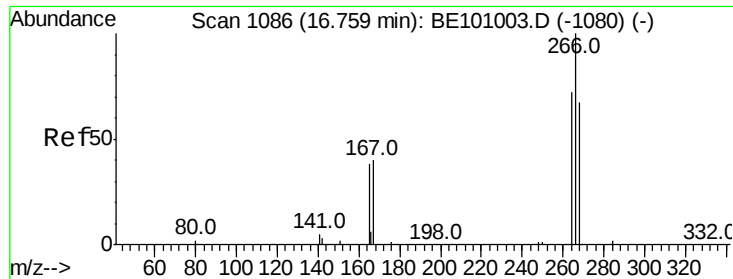
Tot Ion:172 Resp: 10974  
Ion Ratio Lower Upper  
172 100  
171 36.2 28.2 42.2  
170 25.4 18.9 28.3



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.09 min Scan# 1110  
Delta R.T. -0.00 min  
Lab File: BE101043.D  
Acq: 13 Jan 2020 18:12

Tgt Ion:188 Resp: 19933  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.8 10.8 16.2





#22

Pentachlorophenol

Concen: 0.254 ng

RT: 16.73 min Scan# 1083

Delta R.T. -0.03 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA\_E

ClientSampleId :

SB-18(3-5)

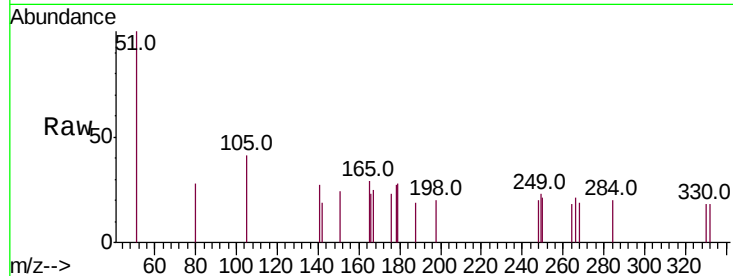
Tot Ion:266 Resp: 14

Ion Ratio Lower Upper

266 100

264 87.7 61.0 91.4

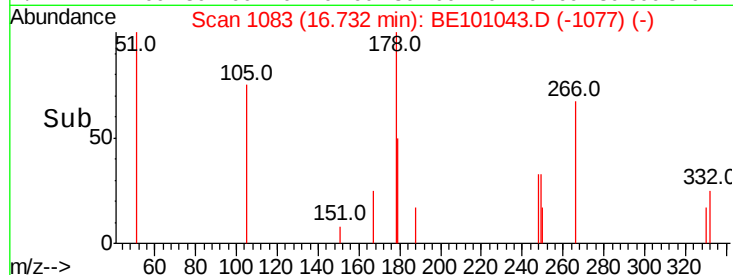
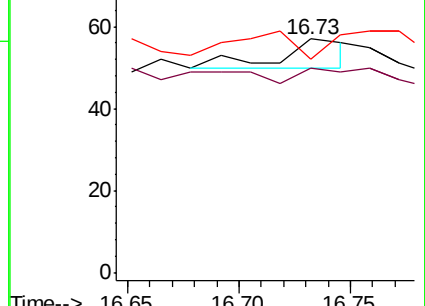
268 91.2 58.5 87.7#



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: 0.042 ng

RT: 17.13 min Scan# 1113

Delta R.T. -0.00 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

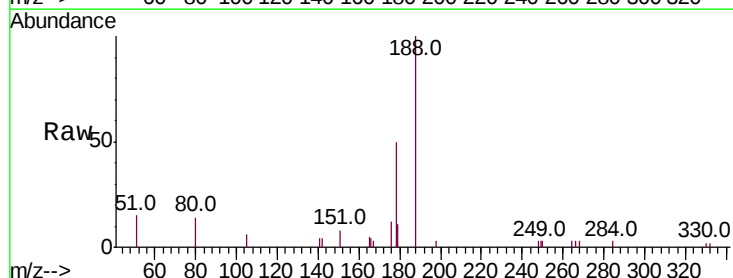
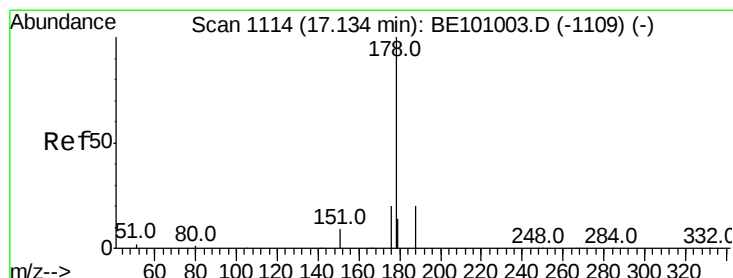
Tgt Ion:178 Resp: 2311

Ion Ratio Lower Upper

178 100

176 21.0 15.7 23.5

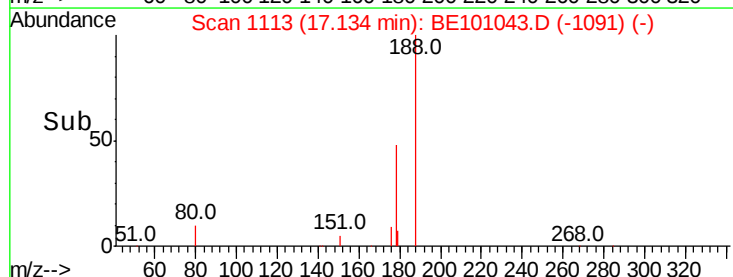
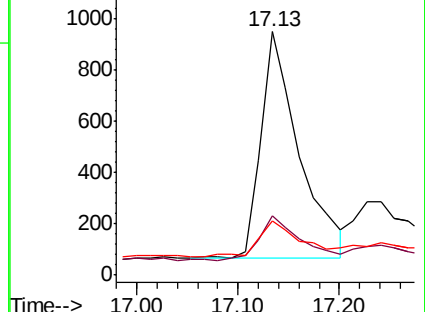
179 17.4 12.0 18.0

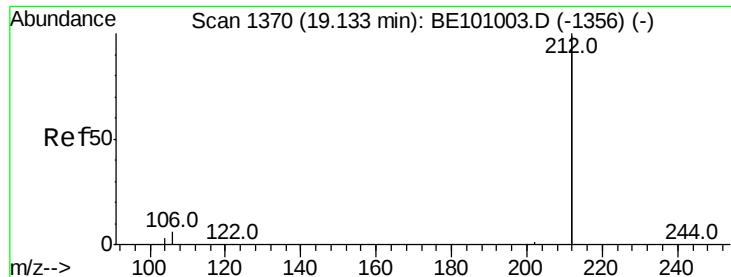


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.279 ng

RT: 19.12 min Scan# 1367

Delta R.T. -0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA\_E

ClientSampleId :

SB-18(3-5)

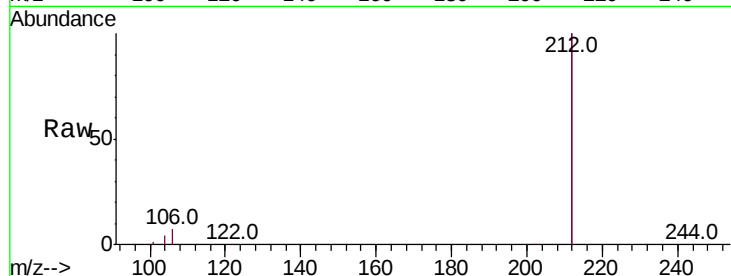
Tot Ion:212 Resp: 77334

Ion Ratio Lower Upper

212 100

106 3.2 2.6 3.8

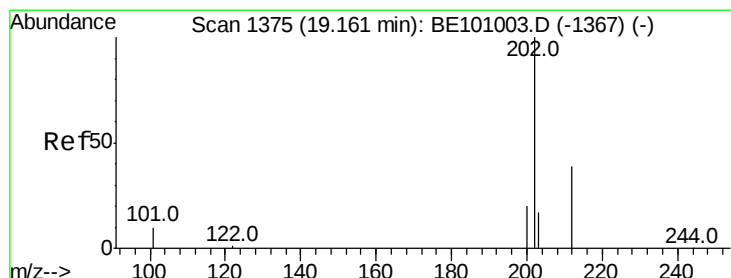
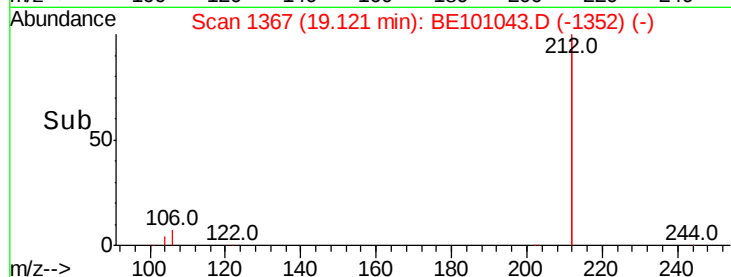
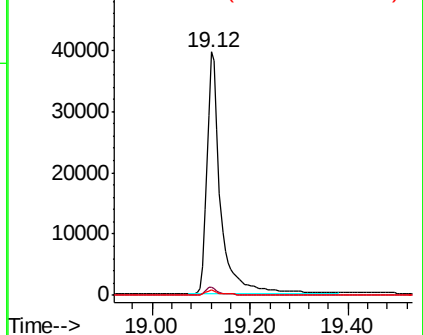
104 1.9 1.4 2.0



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: 0.138 ng

RT: 19.15 min Scan# 1372

Delta R.T. -0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

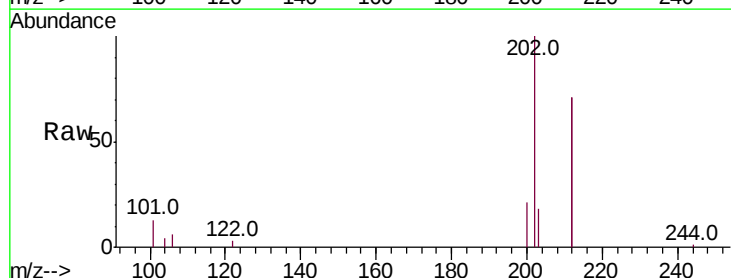
Tgt Ion:202 Resp: 9404

Ion Ratio Lower Upper

202 100

101 11.0 9.6 14.4

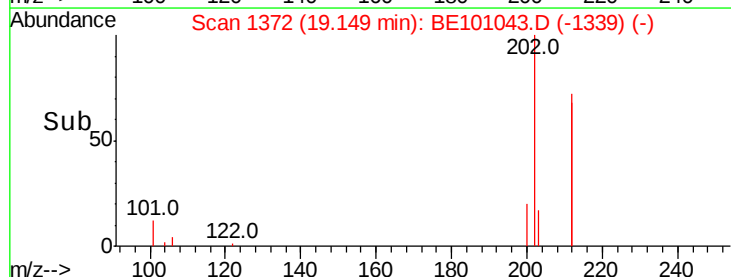
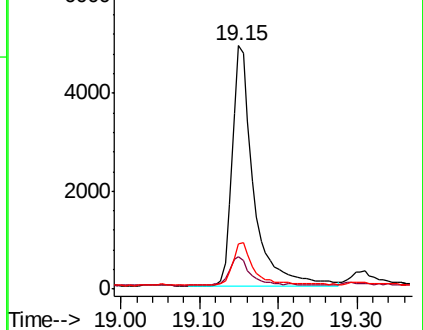
203 17.1 13.8 20.6

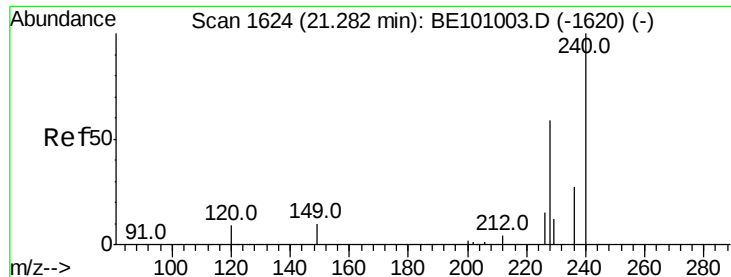


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.27 min Scan# 1622

Delta R.T. -0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA\_E

ClientSampleId :

SB-18(3-5)

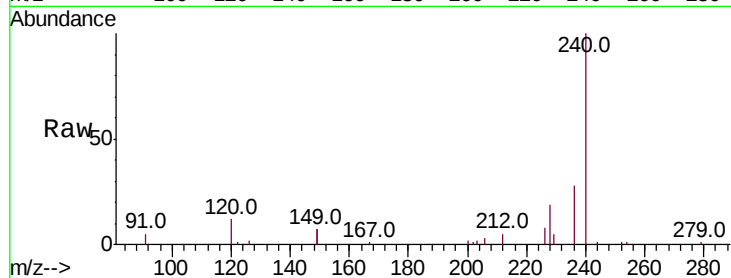
Tot Ion:240 Resp: 19067

Ion Ratio Lower Upper

240 100

120 12.0 8.6 13.0

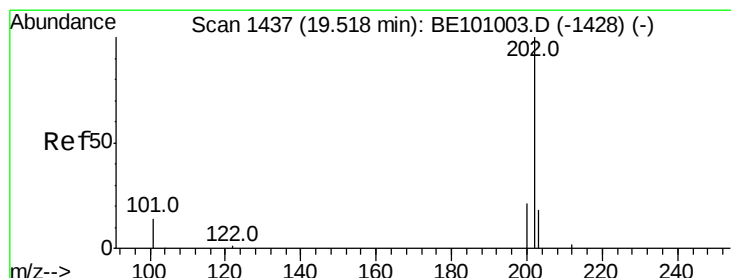
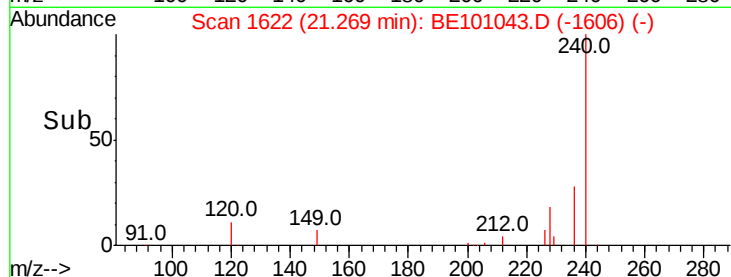
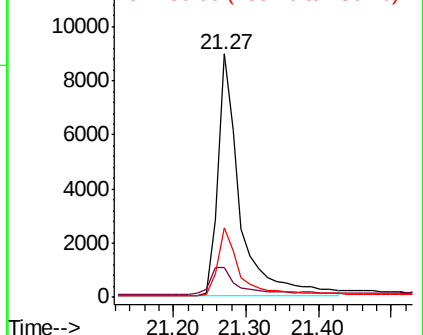
236 28.5 22.2 33.4



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: 0.124 ng

RT: 19.51 min Scan# 1435

Delta R.T. -0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

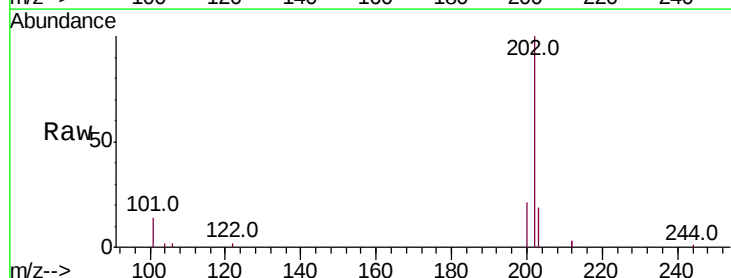
Tgt Ion:202 Resp: 8768

Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.4

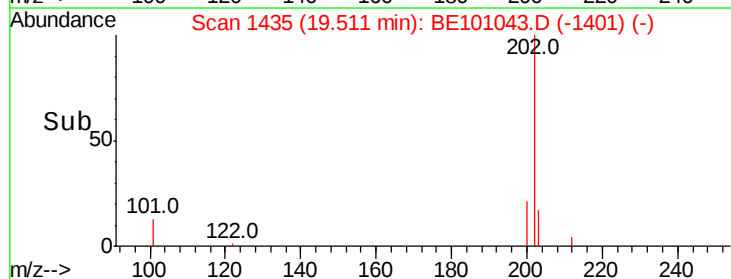
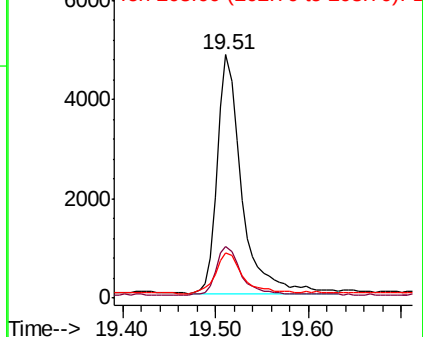
203 19.3 13.8 20.6

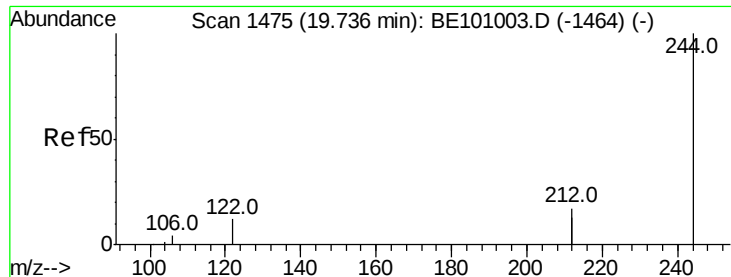


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.396 ng

RT: 19.73 min Scan# 1473

Delta R.T. -0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA\_E

ClientSampleId :

SB-18(3-5)

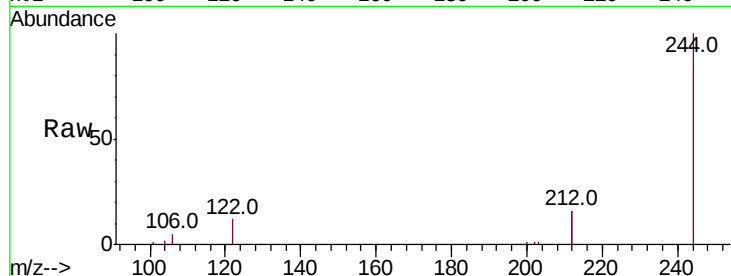
Tot Ion:244 Resp: 18537

Ion Ratio Lower Upper

244 100

212 31.8 27.2 40.8

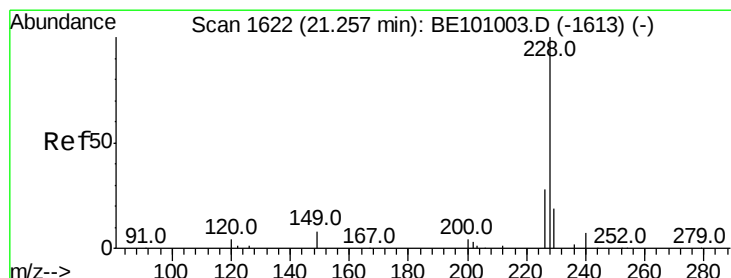
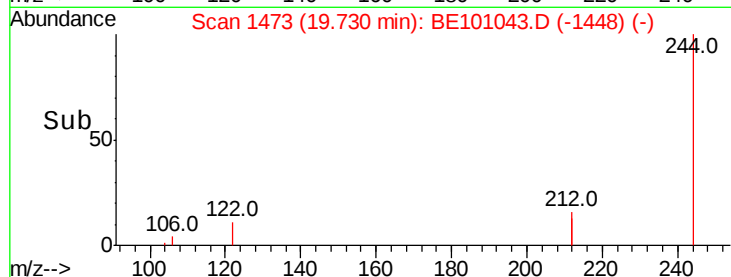
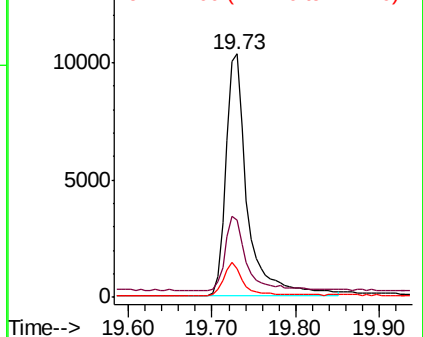
122 11.7 9.8 14.8



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: 0.105 ng

RT: 21.31 min Scan# 1625

Delta R.T. 0.05 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

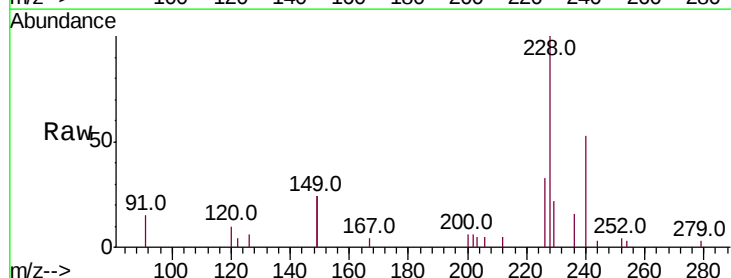
Tgt Ion:228 Resp: 5707

Ion Ratio Lower Upper

228 100

226 33.1 22.7 34.1

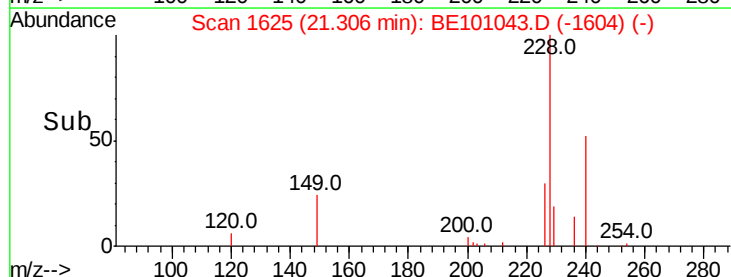
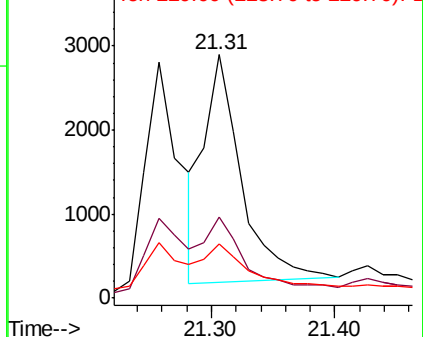
229 22.4 15.5 23.3

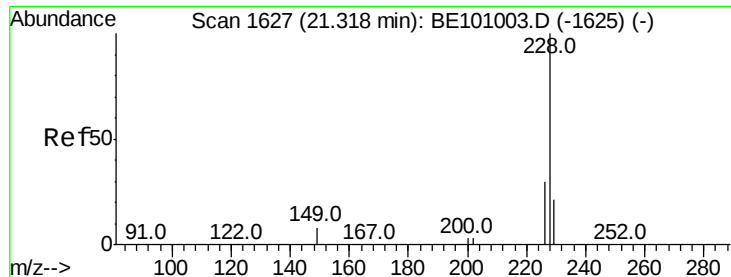


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.080 ng

RT: 21.31 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA\_E

ClientSampleId :

SB-18(3-5)

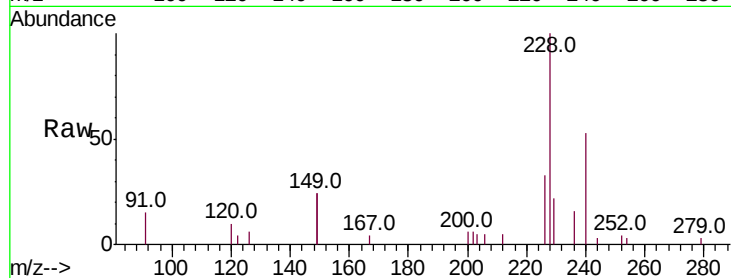
Tot Ion:228 Resp: 6458

Ion Ratio Lower Upper

228 100

226 33.1 23.5 35.3

229 22.4 16.7 25.1

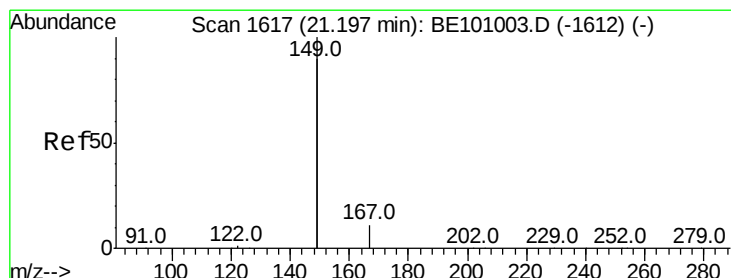
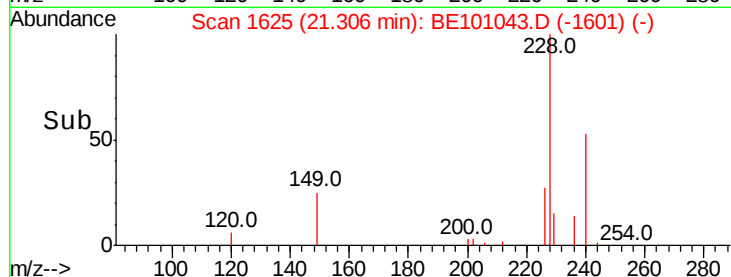
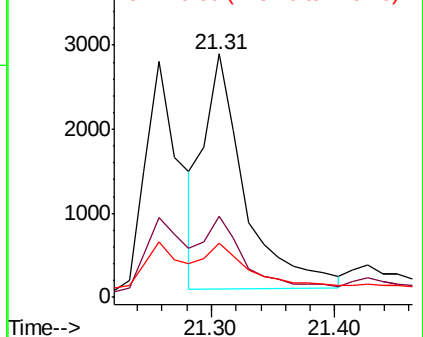


Abundance

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: 0.091 ng

RT: 21.20 min Scan# 1616

Delta R.T. -0.00 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

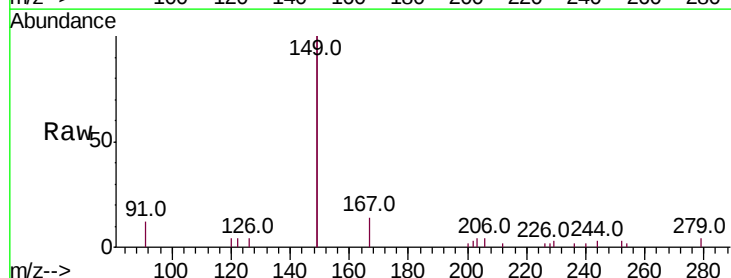
Tgt Ion:149 Resp: 8245

Ion Ratio Lower Upper

149 100

167 6.2 5.2 7.8

279 1.5 0.8 1.2#

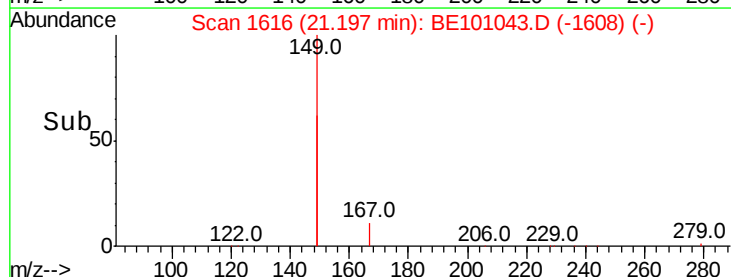
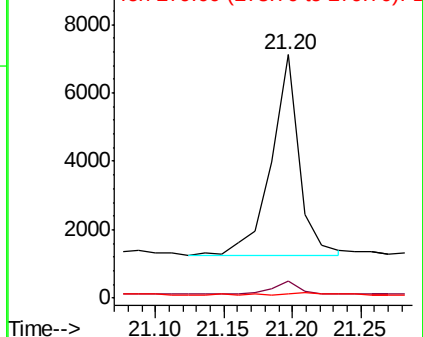


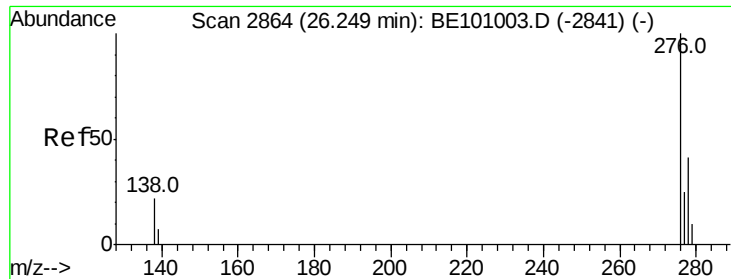
Abundance

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: 0.044 ng

RT: 26.23 min Scan# 2858

Delta R.T. -0.02 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA\_E

ClientSampleId :

SB-18(3-5)

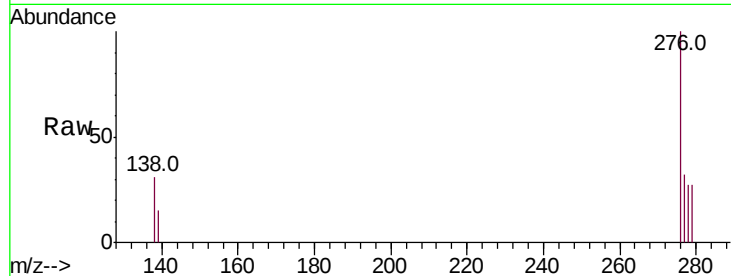
Tot Ion:276 Resp: 2843

Ion Ratio Lower Upper

276 100

138 19.0 16.1 24.1

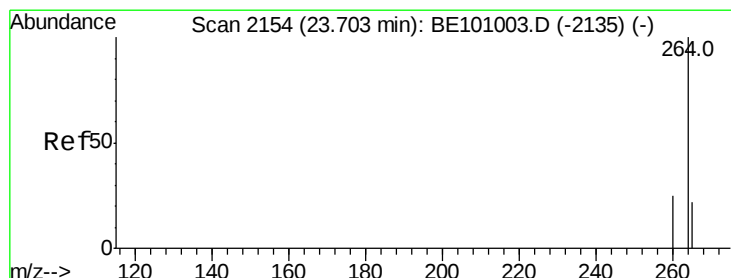
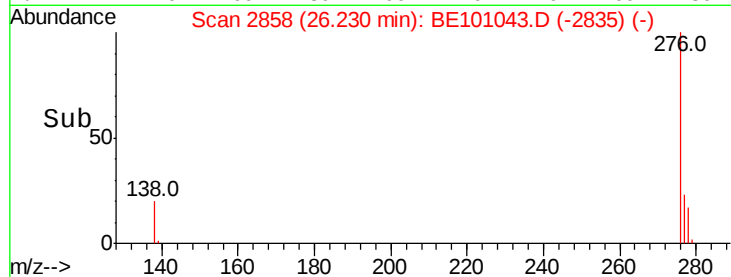
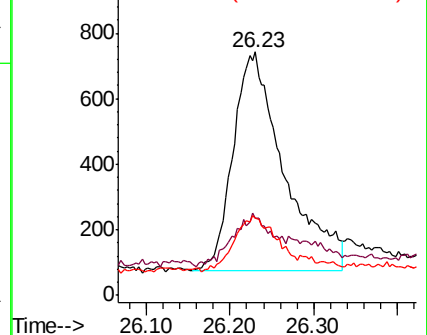
277 20.9 18.1 27.1



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: 23.69 min Scan# 2149

Delta R.T. -0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

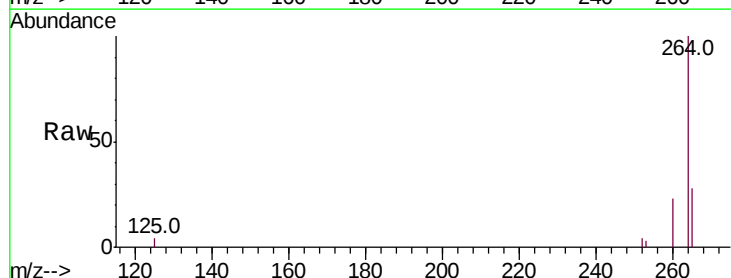
Tgt Ion:264 Resp: 21432

Ion Ratio Lower Upper

264 100

260 23.0 20.3 30.5

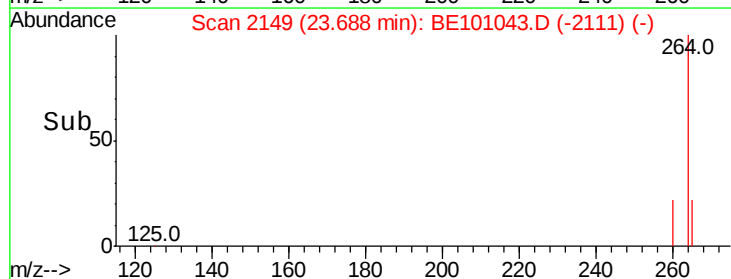
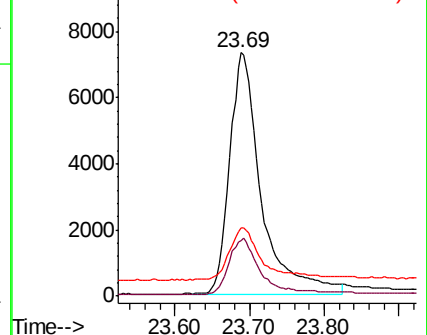
265 27.8 27.0 40.4

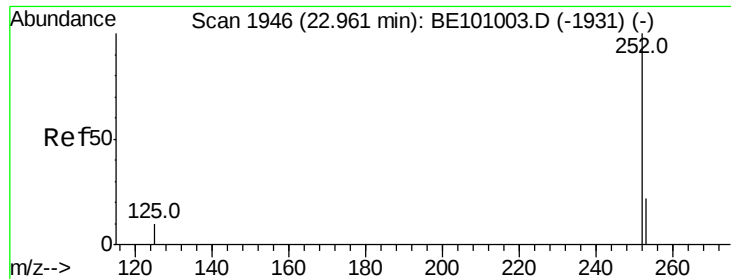


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

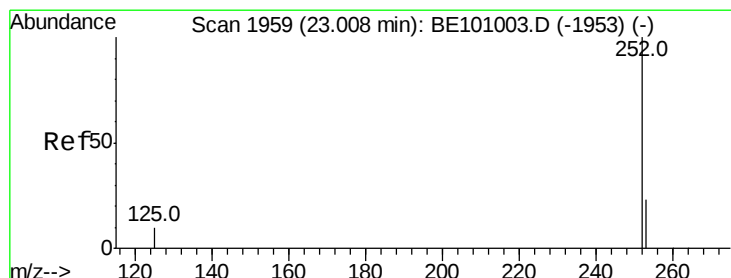
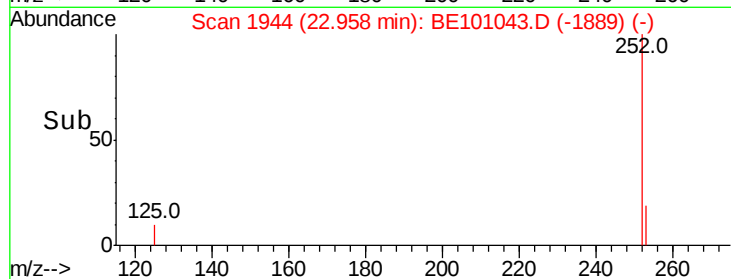
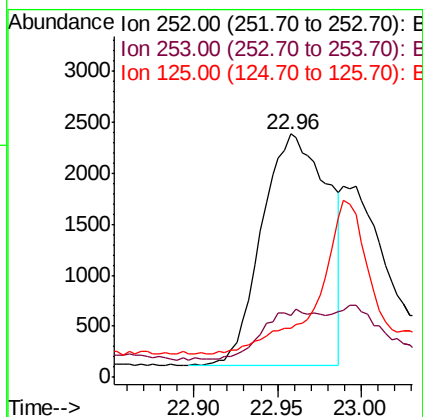
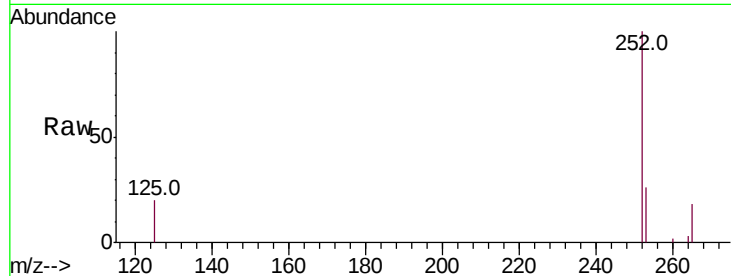




#35  
Benzo(b)fluoranthene  
Concen: 0.104 ng  
RT: 22.96 min Scan# 1944  
Delta R.T. -0.00 min  
Lab File: BE101043.D  
Acq: 13 Jan 2020 18:12

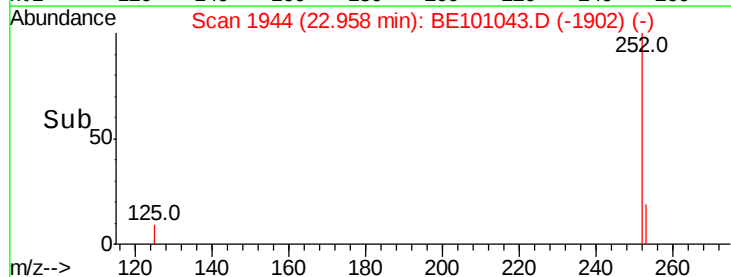
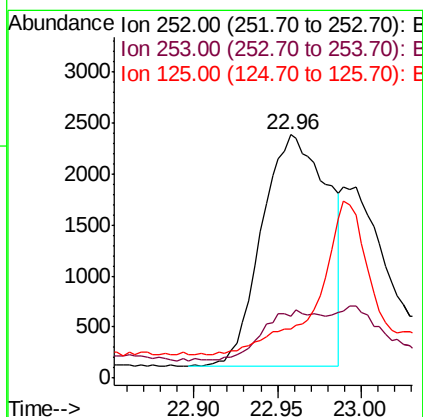
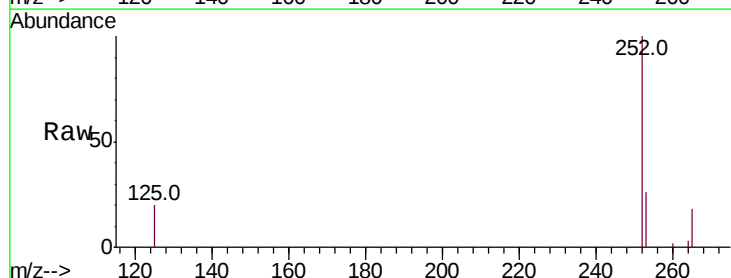
Instrument :  
BNA\_E  
ClientSampleId :  
SB-18(3-5)

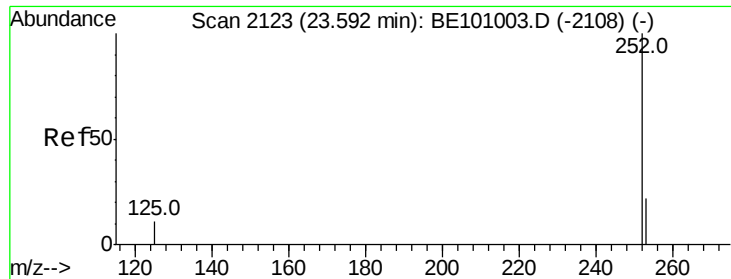
Tot Ion:252 Resp: 6273  
Ion Ratio Lower Upper  
252 100  
253 25.5 18.5 27.7  
125 20.2 9.5 14.3#



#36  
Benzo(k)fluoranthene  
Concen: 0.072 ng  
RT: 22.96 min Scan# 1944  
Delta R.T. -0.05 min  
Lab File: BE101043.D  
Acq: 13 Jan 2020 18:12

Tgt Ion:252 Resp: 6273  
Ion Ratio Lower Upper  
252 100  
253 25.5 18.9 28.3  
125 20.2 10.1 15.1#





#37

Benzo(a)pyrene

Concen: 0.062 ng

RT: 23.58 min Scan# 2120

Delta R.T. -0.01 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

Instrument :

BNA\_E

ClientSampleId :

SB-18(3-5)

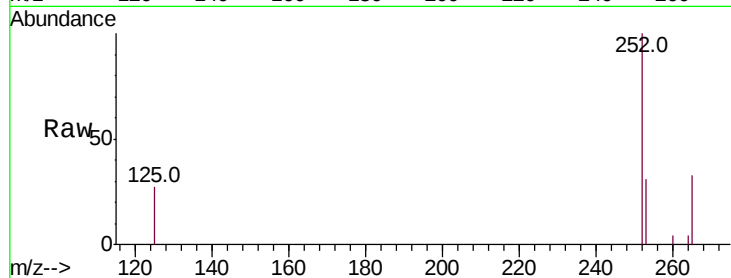
Tot Ion:252 Resp: 3634

Ion Ratio Lower Upper

252 100

253 30.6 19.4 29.2#

125 26.7 11.8 17.6#

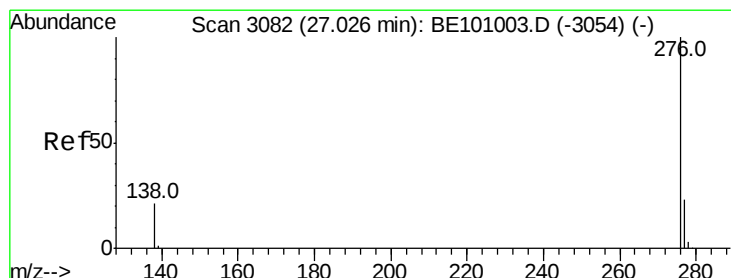
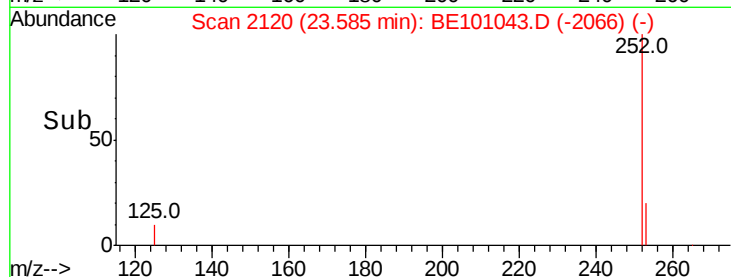
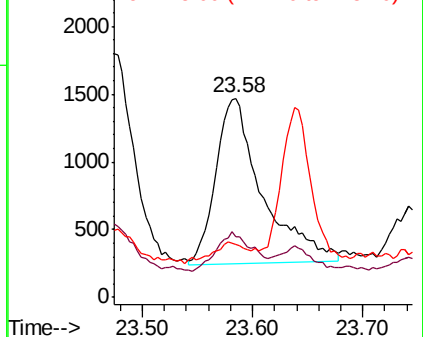


Abundance

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



#39

Benzo(g,h,i)perylene

Concen: 0.050 ng

RT: 27.00 min Scan# 3074

Delta R.T. -0.03 min

Lab File: BE101043.D

Acq: 13 Jan 2020 18:12

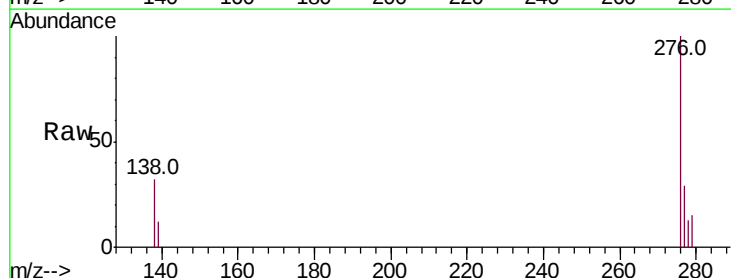
Tgt Ion:276 Resp: 3264

Ion Ratio Lower Upper

276 100

277 29.4 19.4 29.2#

138 31.9 17.9 26.9#



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

