

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121019\  
 Data File : BE100819.D  
 Acq On : 10 Dec 2019 20:12  
 Operator : JU  
 Sample : K6184-13  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE122D1-20191203

Quant Time: Dec 11 05:41:31 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE120419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 04 17:18:11 2019  
 Response via : Initial Calibration

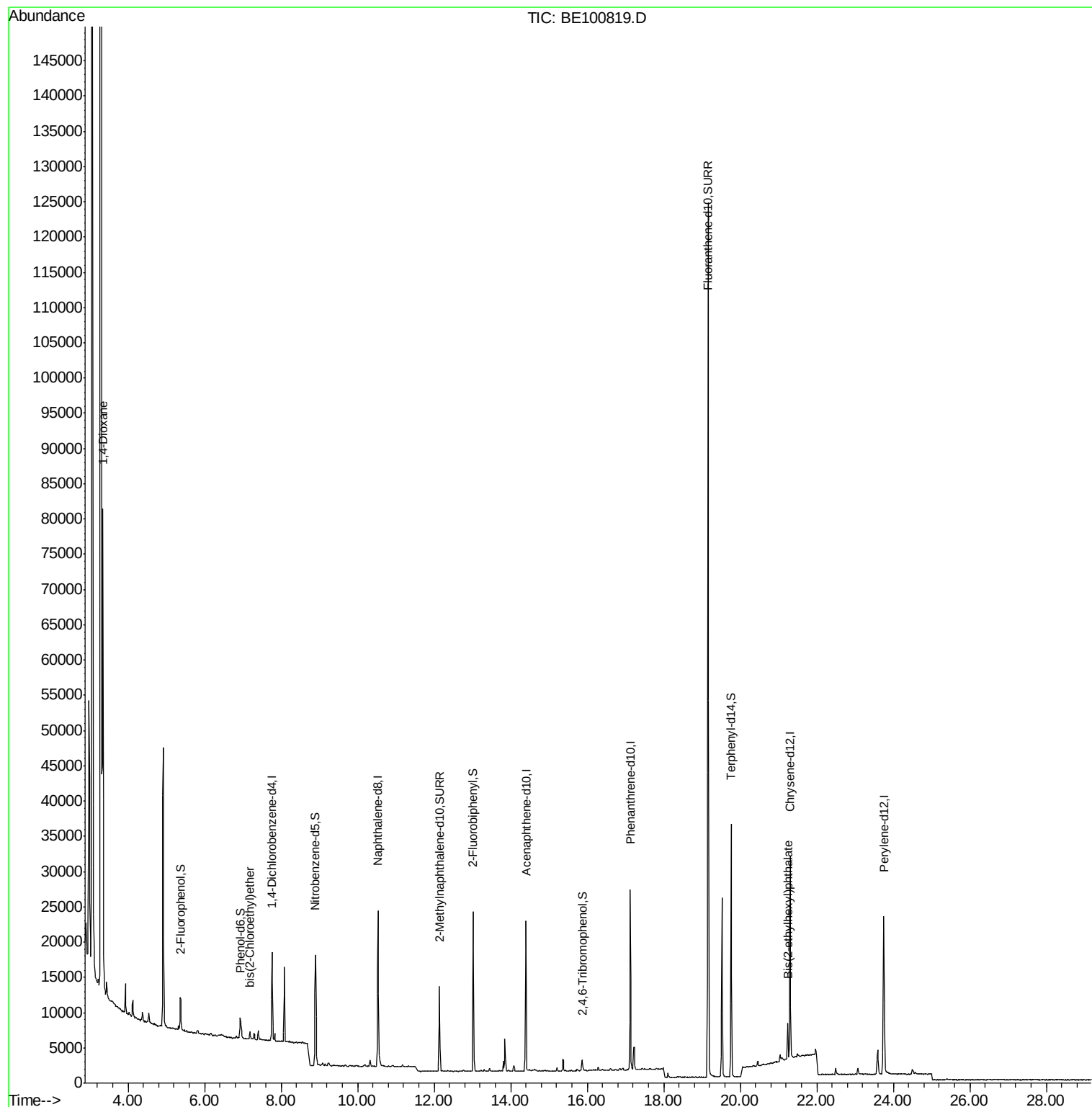
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.76  | 152  | 5378     | 0.40  | ng    | -0.01    |
| 7) Naphthalene-d8              | 10.54 | 136  | 24711    | 0.40  | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.40 | 164  | 13859    | 0.40  | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.12 | 188  | 33462    | 0.40  | ng    | -0.01    |
| 27) Chrysene-d12               | 21.31 | 240  | 27640    | 0.40  | ng    | 0.00     |
| 34) Perylene-d12               | 23.75 | 264  | 33280    | 0.40  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.37  | 112  | 2577     | 0.20  | ng    | 0.00     |
| 5) Phenol-d6                   | 6.93  | 99   | 2469     | 0.13  | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 8.90  | 82   | 6478     | 0.55  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10    | 12.14 | 152  | 15234    | 0.43  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 15.88 | 330  | 991      | 0.64  | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 13.02 | 172  | 22286    | 0.41  | ng    | -0.01    |
| 25) Fluoranthene-d10           | 19.16 | 212  | 152400   | 0.39  | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.76 | 244  | 29015    | 0.44  | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 2) 1,4-Dioxane                 | 3.34  | 88   | 37266    | 3.801 | ng    | # 88     |
| 6) bis(2-Chloroethyl)ether     | 7.18  | 93   | 499      | 0.027 | ng    | # 57     |
| 32) Bis(2-ethylhexyl)phthalate | 21.25 | 149  | 7972     | 0.093 | ng    | # 100    |

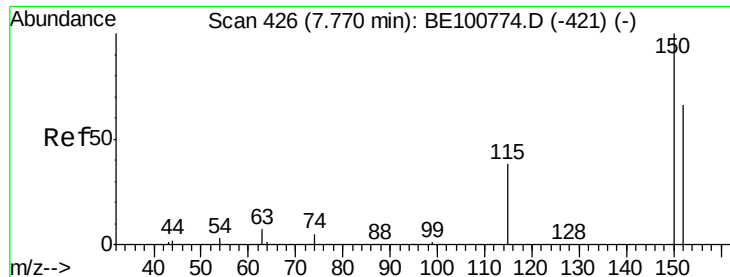
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_E  
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RE122D1-20191203

Quant Time: Dec 11 05:41:31 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE120419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 04 17:18:11 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.76 min Scan# 425

Delta R.T. -0.01 min

Lab File: BE100819.D

Acq: 10 Dec 2019 20:12

Instrument :

BNA\_E

ClientSampleId :

RE122D1-20191203

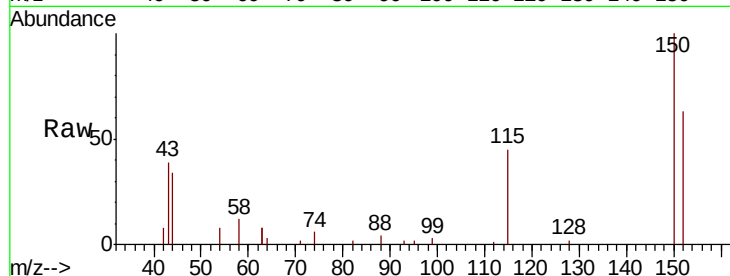
Tot Ion:152 Resp: 5378

Ion Ratio Lower Upper

152 100

150 159.5 120.6 181.0

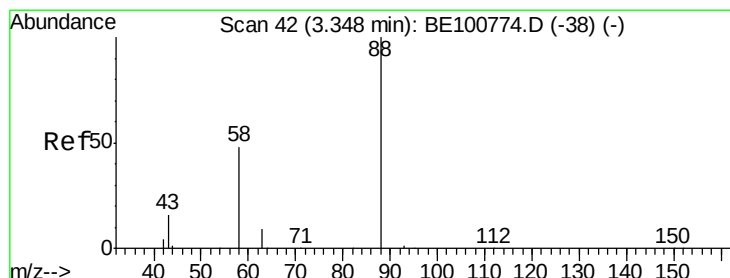
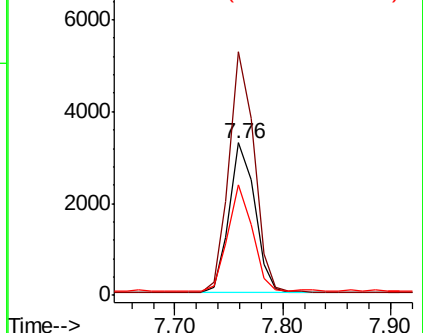
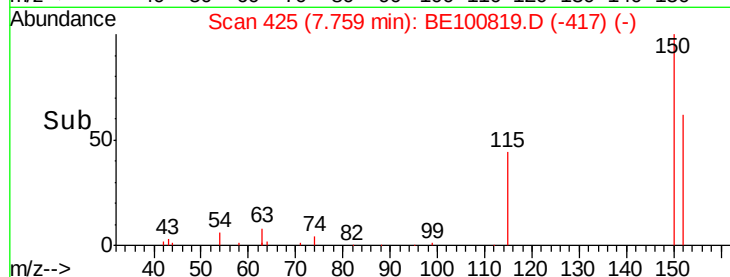
115 72.5 47.4 71.2#



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: 3.801 ng

RT: 3.34 min Scan# 41

Delta R.T. -0.01 min

Lab File: BE100819.D

Acq: 10 Dec 2019 20:12

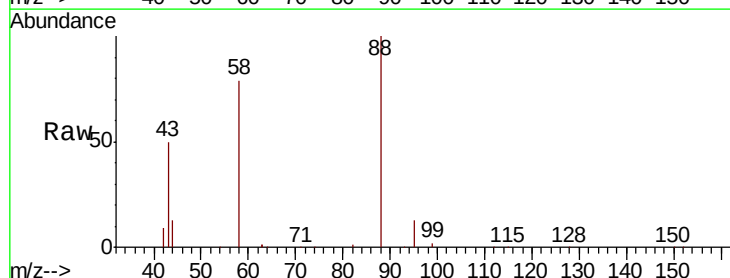
Tgt Ion: 88 Resp: 37266

Ion Ratio Lower Upper

88 100

58 74.5 52.5 78.7

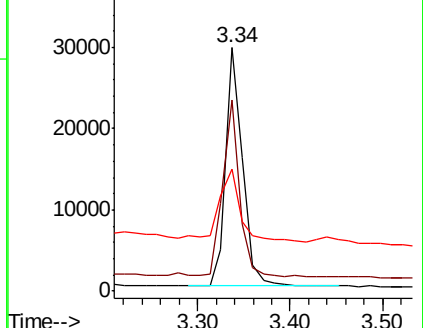
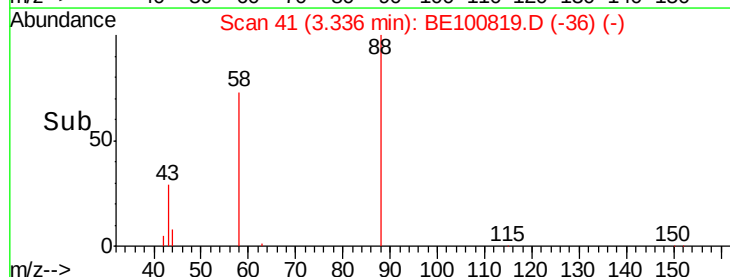
43 36.5 23.0 34.6#

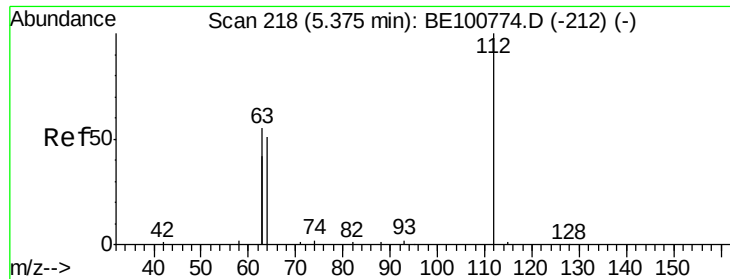


Abundance Ion 88.00 (87.70 to 88.70): BE1

Ion 58.00 (57.70 to 58.70): BE1

Ion 43.00 (42.70 to 43.70): BE1





#4

2-Fluorophenol

Concen: 0.202 ng

RT: 5.37 min Scan# 218

Delta R.T. 0.00 min

Lab File: BE100819.D

Acq: 10 Dec 2019 20:12

Instrument :

BNA\_E

ClientSampleId :

RE122D1-20191203

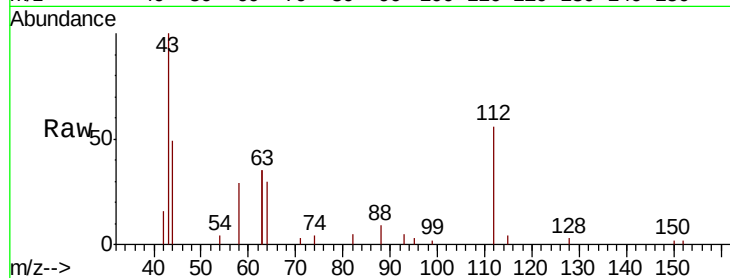
Tot Ion:112 Resp: 2577

Ion Ratio Lower Upper

112 100

64 66.0 54.1 81.1

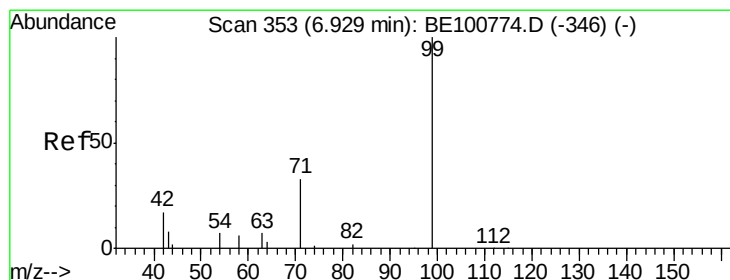
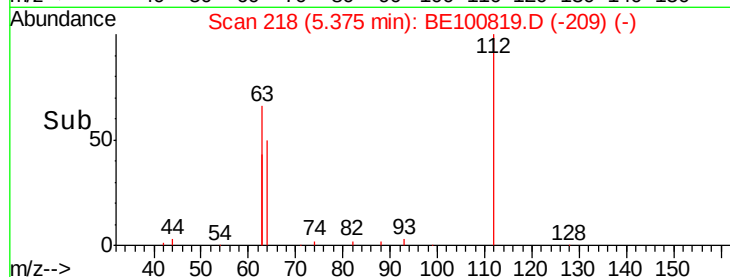
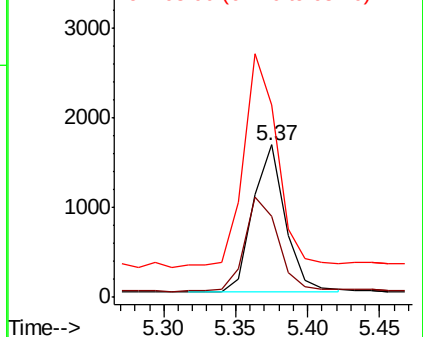
63 150.4 113.2 169.8



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



#5

Phenol-d6

Concen: 0.128 ng

RT: 6.93 min Scan# 353

Delta R.T. 0.00 min

Lab File: BE100819.D

Acq: 10 Dec 2019 20:12

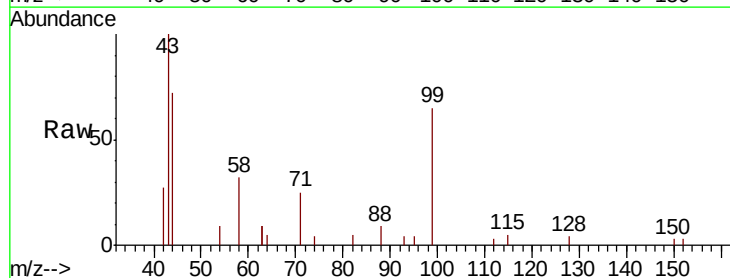
Tgt Ion: 99 Resp: 2469

Ion Ratio Lower Upper

99 100

42 27.5 19.1 28.7

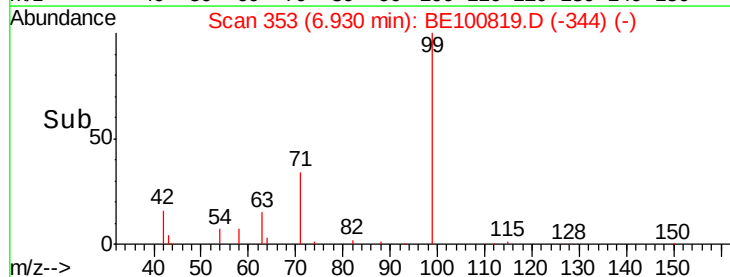
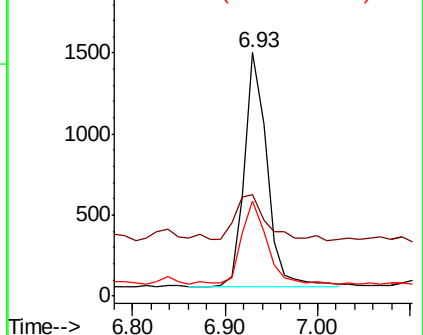
71 38.8 27.7 41.5

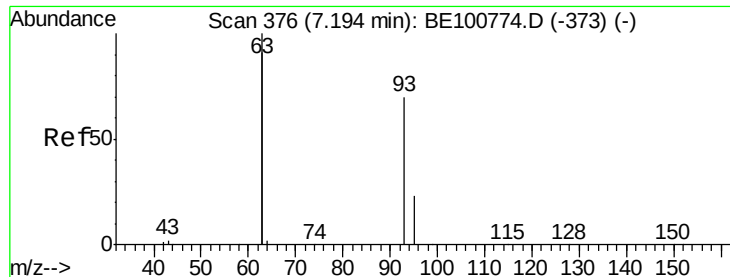


Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1

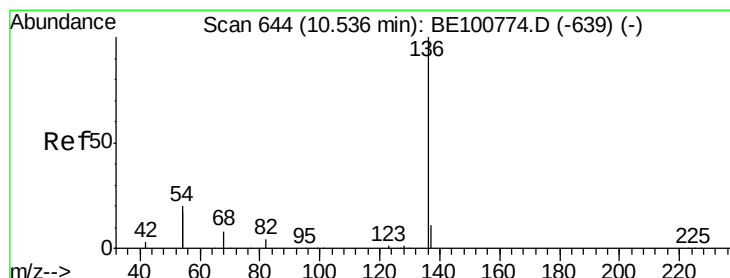
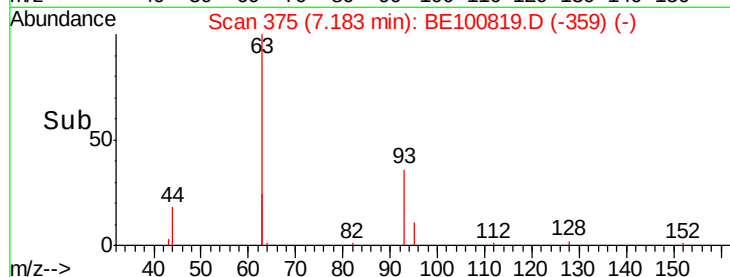
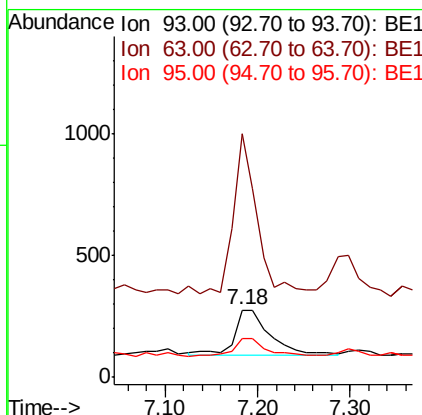
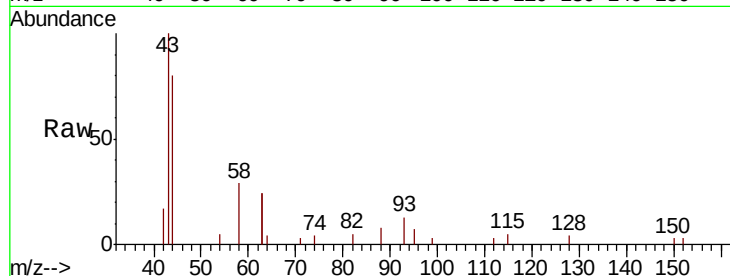




#6  
 bis(2-Chloroethyl)ether  
 Concen: 0.027 ng  
 RT: 7.18 min Scan# 375  
 Delta R.T. -0.01 min  
 Lab File: BE100819.D  
 Acq: 10 Dec 2019 20:12

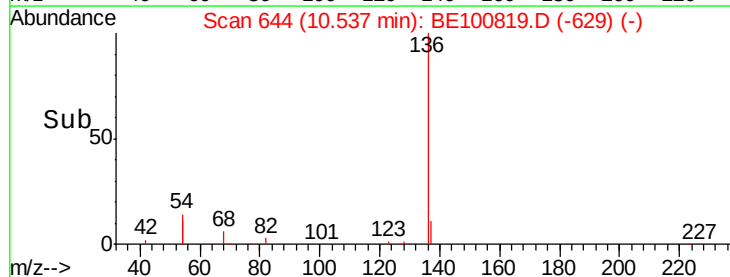
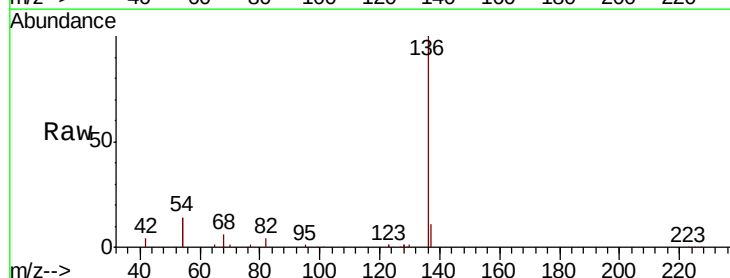
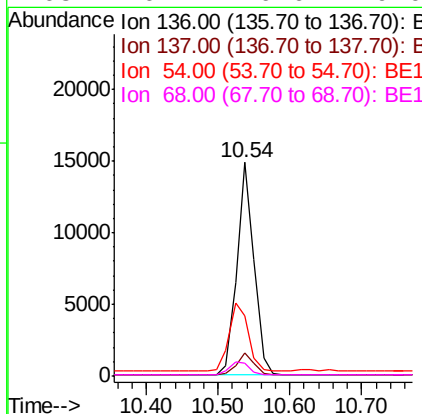
Instrument :  
 BNA\_E  
 ClientSampleId :  
 RE122D1-20191203

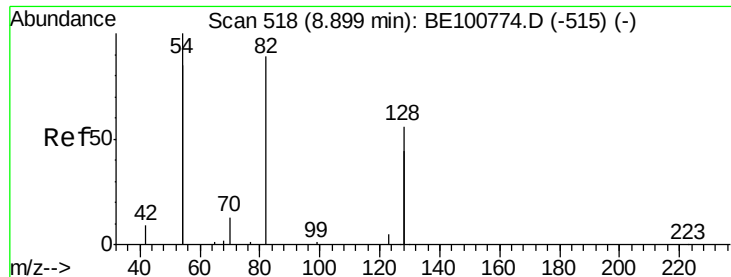
| Tot Ion | 93    | Resp  | 499    |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 93      | 100   |       |        |
| 63      | 227.5 | 259.4 | 389.0# |
| 95      | 35.9  | 26.2  | 39.2   |



#7  
 Naphthalene-d8  
 Concen: 0.400 ng  
 RT: 10.54 min Scan# 644  
 Delta R.T. 0.00 min  
 Lab File: BE100819.D  
 Acq: 10 Dec 2019 20:12

| Tgt Ion | 136   | Resp  | 24711 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 136     | 100   |       |       |
| 137     | 10.8  | 9.4   | 14.0  |
| 54      | 28.2  | 31.1  | 46.7# |
| 68      | 6.2   | 6.6   | 10.0# |





#8

Nitrobenzene-d5

Concen: 0.550 ng

RT: 8.90 min Scan# 518

Delta R.T. 0.00 min

Lab File: BE100819.D

Acq: 10 Dec 2019 20:12

Instrument :

BNA\_E

ClientSampleId :

RE122D1-20191203

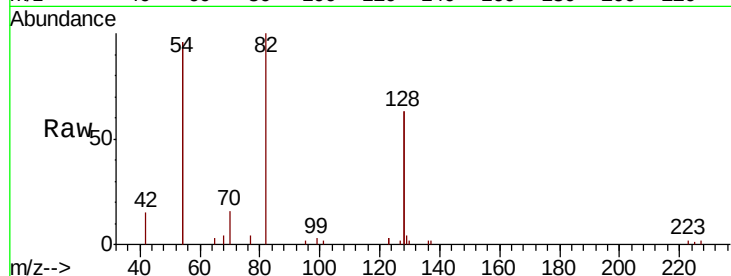
Tot Ion: 82 Resp: 6478

Ion Ratio Lower Upper

82 100

128 126.4 97.0 145.4

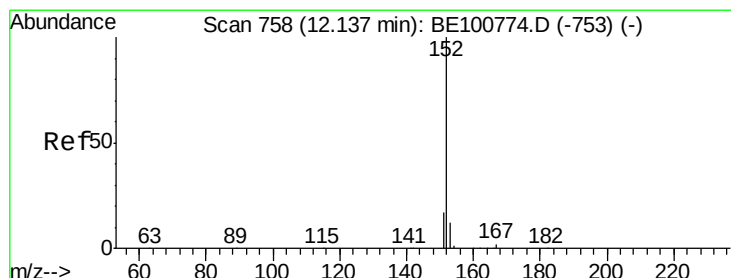
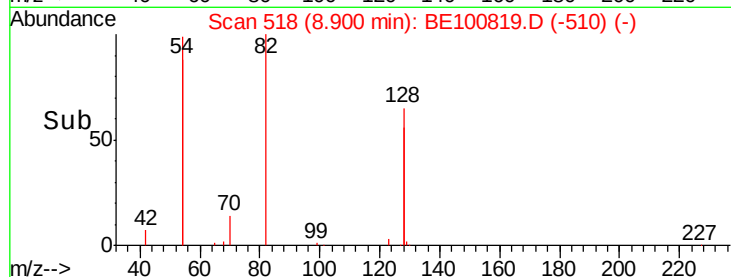
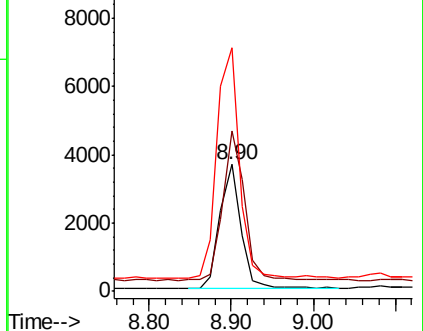
54 192.3 171.8 257.6



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: 0.425 ng

RT: 12.14 min Scan# 758

Delta R.T. 0.00 min

Lab File: BE100819.D

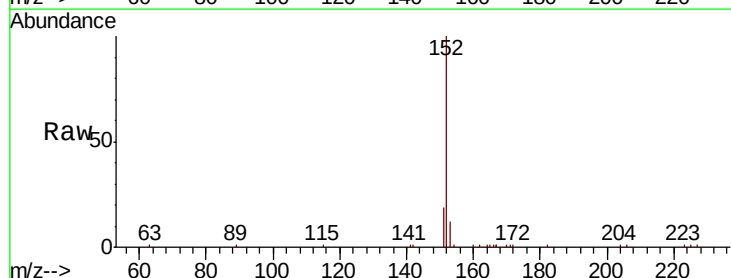
Acq: 10 Dec 2019 20:12

Tgt Ion: 152 Resp: 15234

Ion Ratio Lower Upper

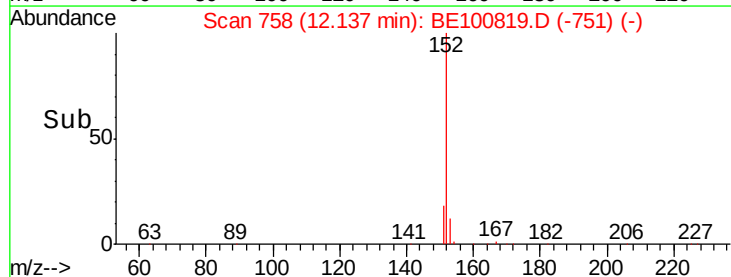
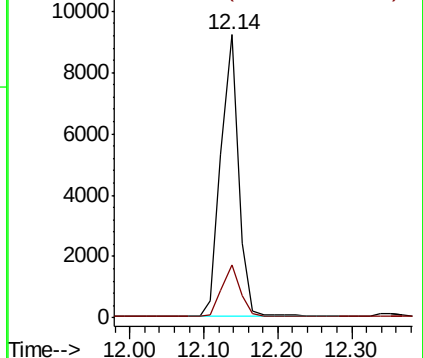
152 100

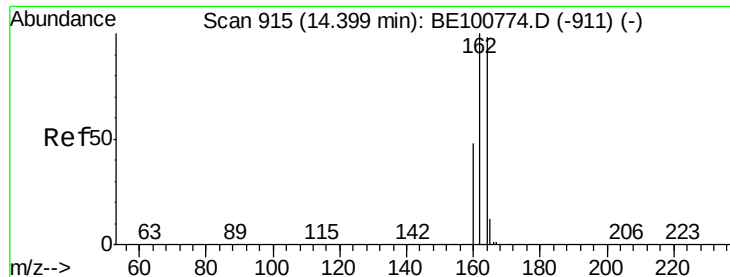
151 19.4 15.8 23.8



Abundance Ion 152.00 (151.70 to 152.70): BE1

Ion 151.00 (150.70 to 151.70): BE1

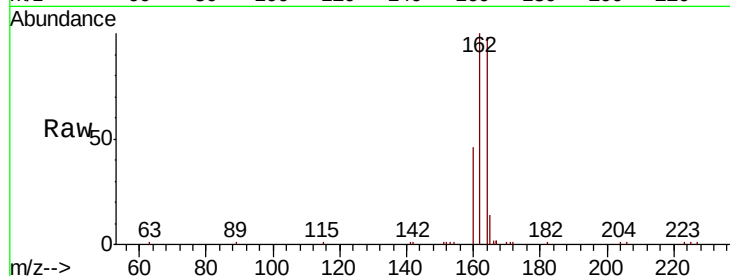




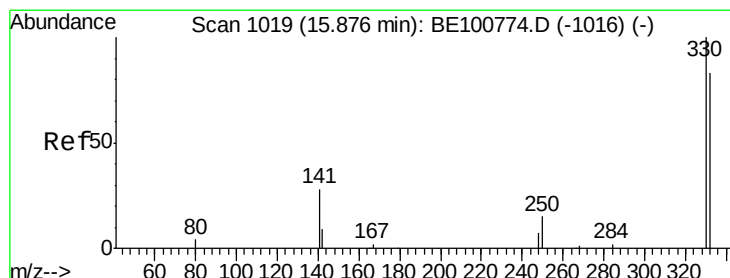
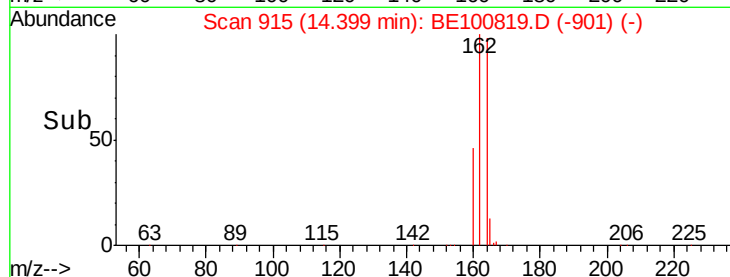
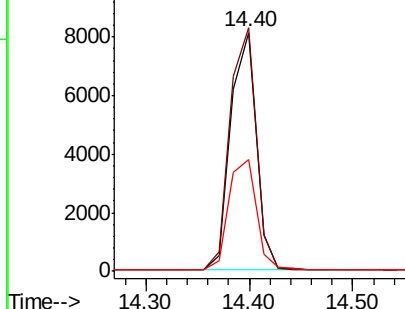
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.40 min Scan# 915  
Delta R.T. 0.00 min  
Lab File: BE100819.D  
Acq: 10 Dec 2019 20:12

Instrument :  
BNA\_E  
ClientSampleId :  
RE122D1-20191203

Tot Ion:164 Resp: 13859  
Ion Ratio Lower Upper  
164 100  
162 102.0 81.4 122.0  
160 47.0 39.4 59.0

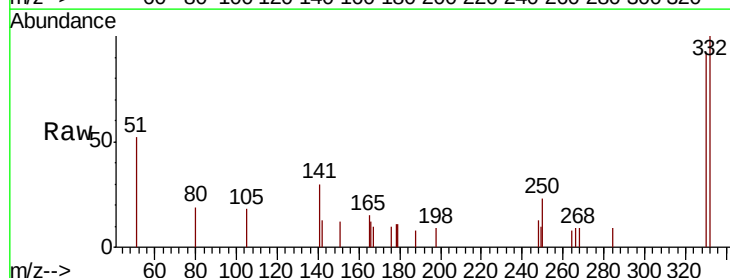


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

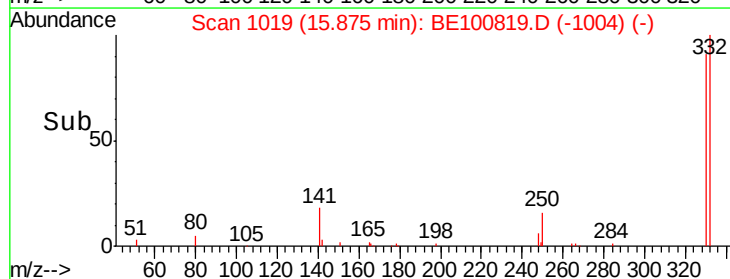
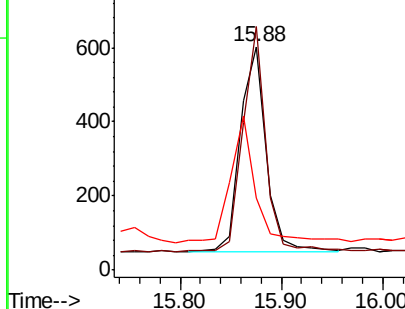


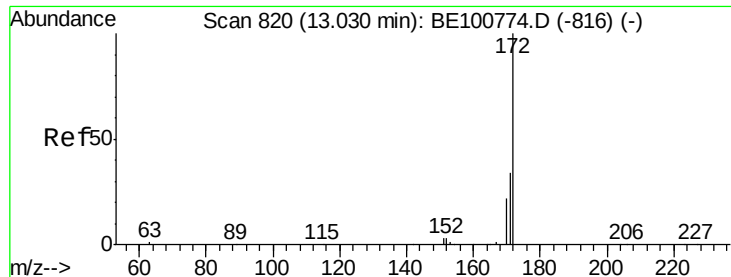
#14  
2,4,6-Tribromophenol  
Concen: 0.643 ng  
RT: 15.88 min Scan# 1019  
Delta R.T. -0.00 min  
Lab File: BE100819.D  
Acq: 10 Dec 2019 20:12

Tgt Ion:330 Resp: 991  
Ion Ratio Lower Upper  
330 100  
332 99.3 69.4 104.2  
141 59.3 51.1 76.7



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

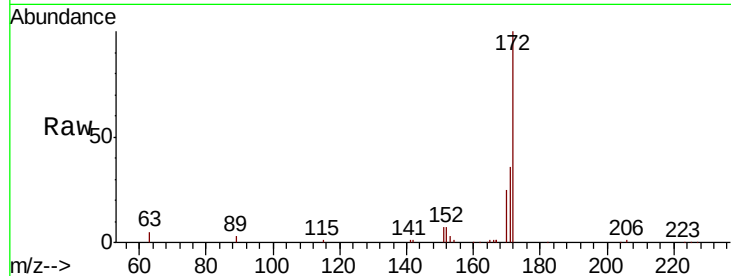




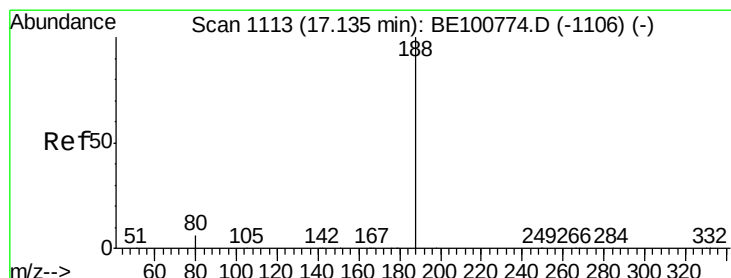
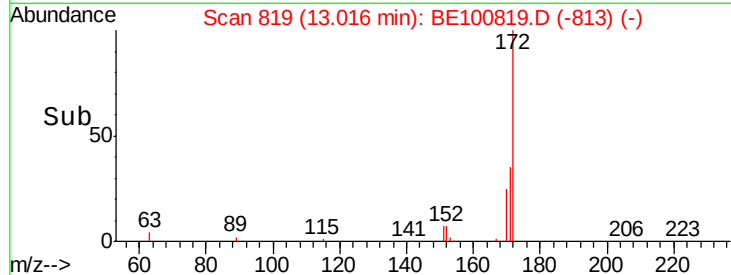
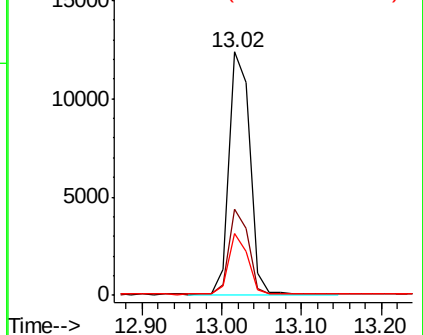
#15  
2-Fluorobiphenyl  
Concen: 0.405 ng  
RT: 13.02 min Scan# 819  
Delta R.T. -0.01 min  
Lab File: BE100819.D  
Acq: 10 Dec 2019 20:12

Instrument :  
BNA\_E  
ClientSampleId :  
RE122D1-20191203

Tot Ion:172 Resp: 22286  
Ion Ratio Lower Upper  
172 100  
171 35.6 27.2 40.8  
170 25.3 18.0 27.0

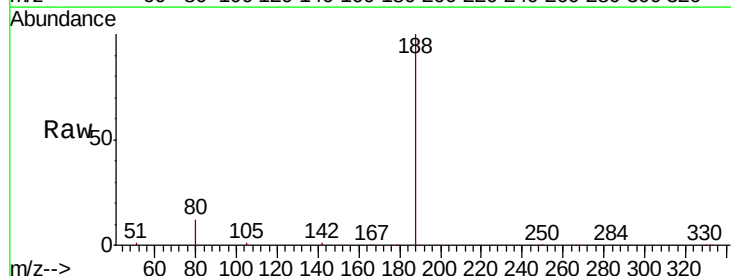


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

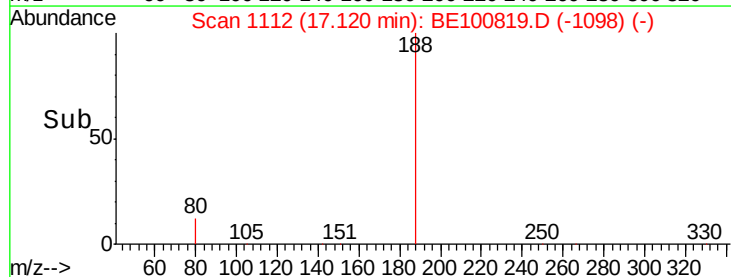
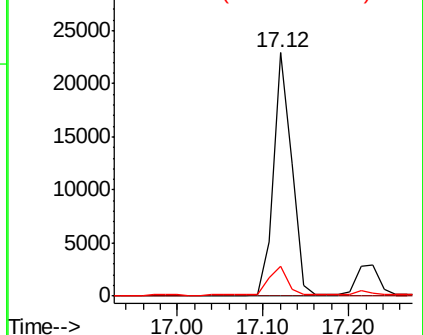


#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.12 min Scan# 1112  
Delta R.T. -0.01 min  
Lab File: BE100819.D  
Acq: 10 Dec 2019 20:12

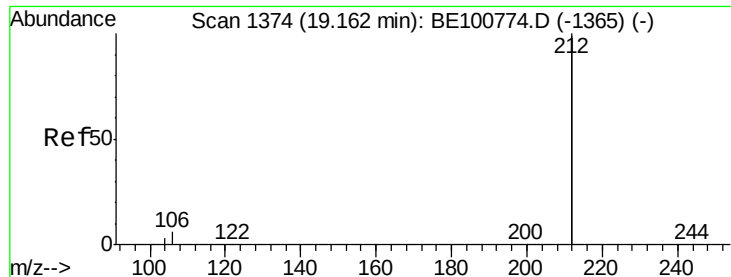
Tgt Ion:188 Resp: 33462  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 12.0 5.2 7.8#



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







#25

Fluoranthene-d10

Concen: 0.385 ng

RT: 19.16 min Scan# 1373

Delta R.T. -0.01 min

Lab File: BE100819.D

Acq: 10 Dec 2019 20:12

Instrument :

BNA\_E

ClientSampleId :

RE122D1-20191203

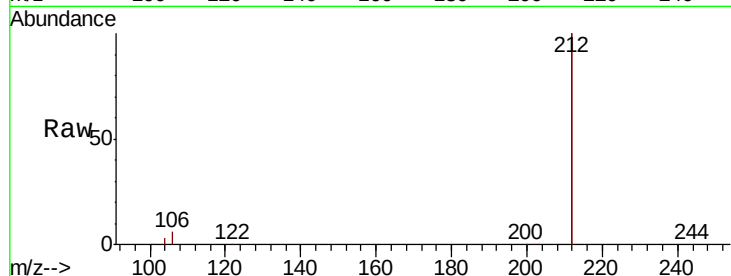
Tot Ion:212 Resp: 152400

Ion Ratio Lower Upper

212 100

106 3.3 2.6 3.8

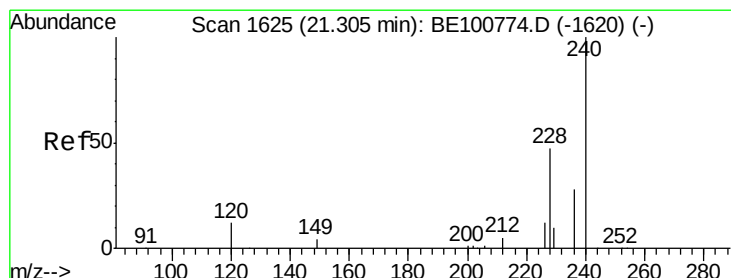
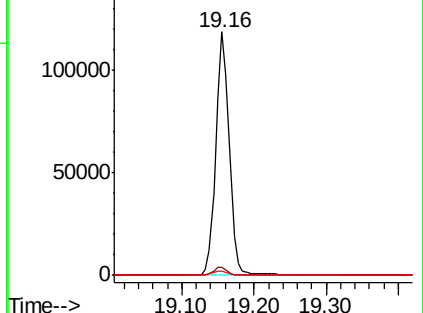
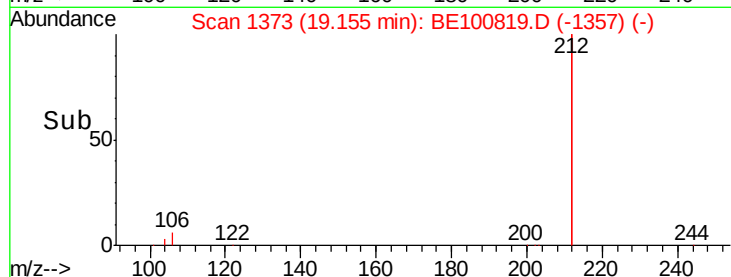
104 1.8 1.4 2.2



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



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.31 min Scan# 1625

Delta R.T. 0.00 min

Lab File: BE100819.D

Acq: 10 Dec 2019 20:12

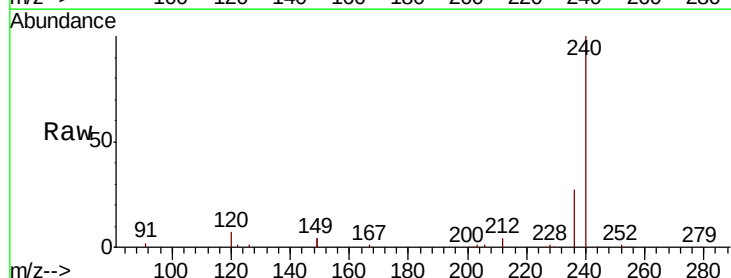
Tgt Ion:240 Resp: 27640

Ion Ratio Lower Upper

240 100

120 6.6 10.2 15.2#

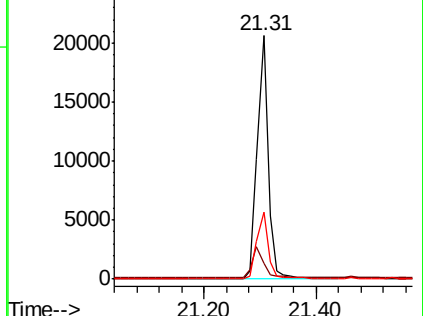
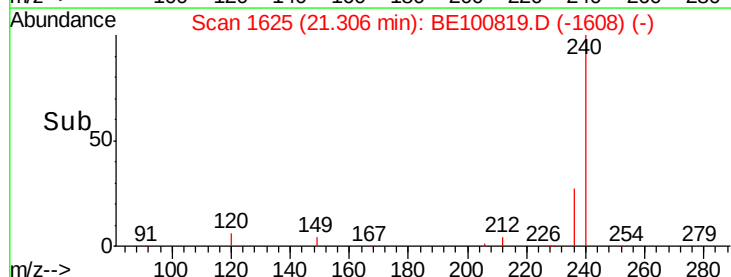
236 27.3 22.3 33.5

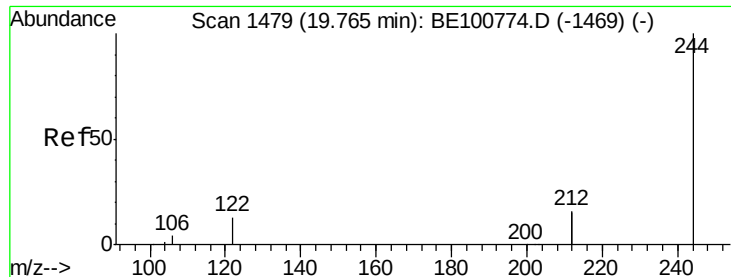


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.438 ng

RT: 19.76 min Scan# 1478

Delta R.T. -0.01 min

Lab File: BE100819.D

Acq: 10 Dec 2019 20:12

Instrument :

BNA\_E

ClientSampleId :

RE122D1-20191203

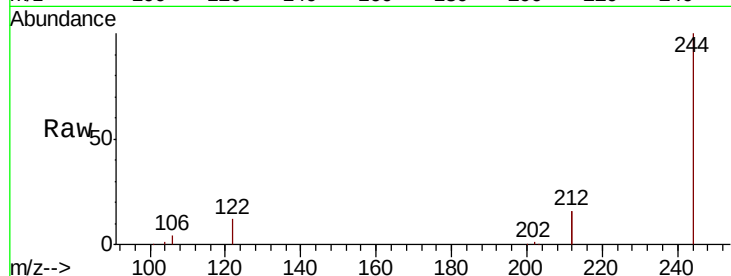
Tot Ion:244 Resp: 29015

Ion Ratio Lower Upper

244 100

212 32.2 26.2 39.4

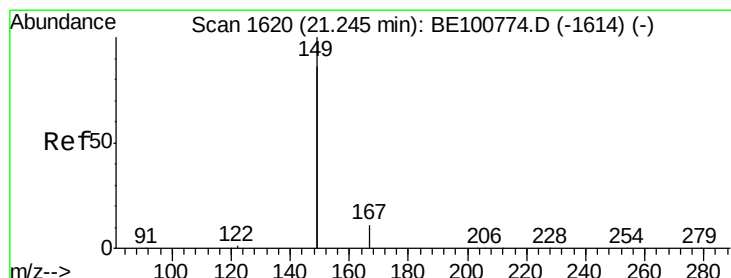
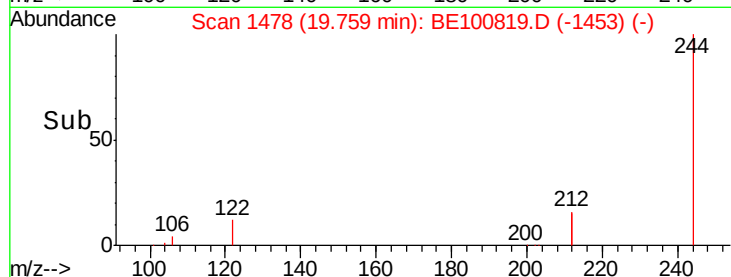
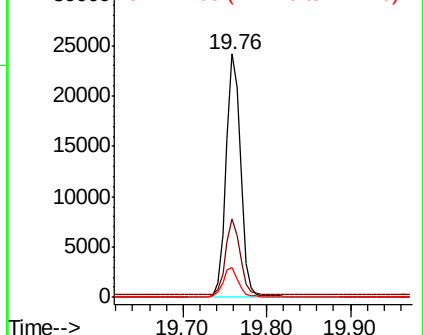
122 12.3 10.2 15.4



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.093 ng

RT: 21.25 min Scan# 1620

Delta R.T. 0.00 min

Lab File: BE100819.D

Acq: 10 Dec 2019 20:12

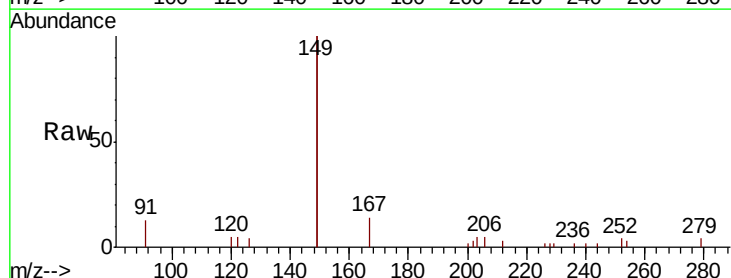
Tgt Ion:149 Resp: 7972

Ion Ratio Lower Upper

149 100

167 6.3 5.0 7.6

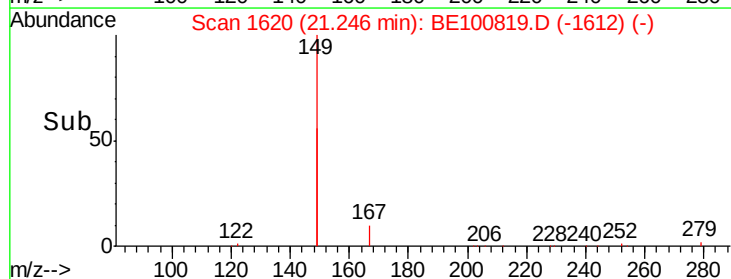
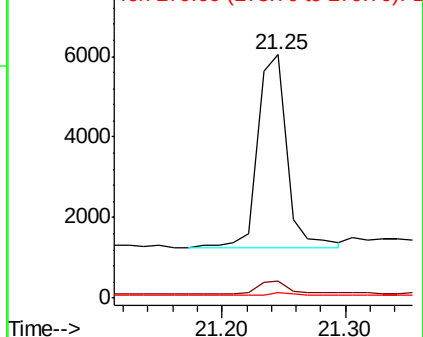
279 1.1 0.7 1.1#

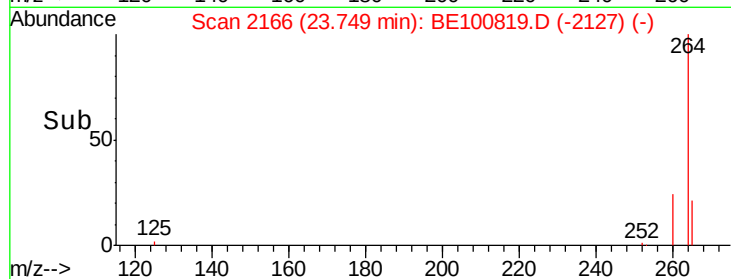
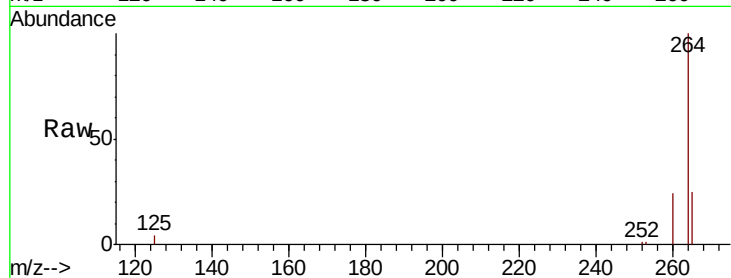
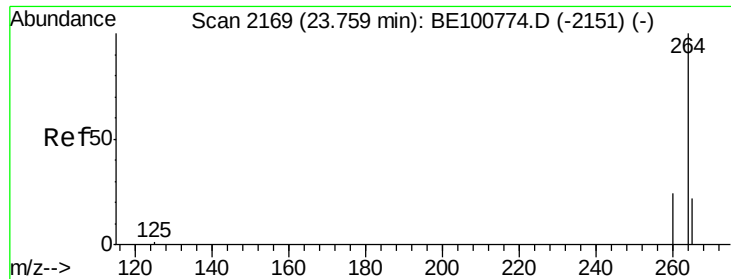


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#34

Pervlene-d12

Concen: 0.400 ng

RT: 23.75 min Scan# 2166

Delta R.T. -0.01 min

Lab File: BE100819.D

Acq: 10 Dec 2019 20:12

Instrument :

BNA\_E

ClientSampleId :

RE122D1-20191203

Tot Ion: 264 Resp: 33280

Ion Ratio Lower Upper

264 100

260 23.5 19.4 29.2

265 25.3 21.8 32.8

