light_data_3.22/result4/3.28：

1. **/mix_bias_amp：对所有 bias、amp 训练一个统一的网络出来。发送信号是 bpsk 分布的随机信号，发送速率为 10M，接收速率 60M。先用一部分数据训练一个网络，并将其保存；然后导出这个网络，再用另一部分数据接着训练。这样的话训练数据量就是之前的多倍。**

1.1 /Threenonlinear1：用 3.22/data/amp0.1613、amp1 的数据来训练，cell 个数为 200，即对每个 amp-bias 组合，都把 200 个 cell 放进训练数据集。

```
Threenonlinear ,
ini learningRate = 1.000000e-02 ,
min batch size = 400 ,
DropPeriod = 8 , DropFactor = 0.100000 ,
amp = 0.161300, 1.000000,
bias = 0.050000, 0.090000, 0.130000, 0.170000, 0.210000, 0.250000, 0.290000,
   0.330000, 0.370000, 0.410000, 0.450000, 0.490000, 0.530000, 0.570000, 0.610000,
   0.650000, 0.690000, 0.730000, 0.770000, 0.810000, 0.850000,
data_num = 200 , split num = 10 , train num = 1900
validationFrequency is floor(numel(xTrain)/miniBatchSize/2)
origin rate = 1.000000e+07 , receive rate = 6.000000e+07
H order = 48 ,related num = 8
Hidden Units = 60
Add zero num = 24
```

1.2 /Threenonlinear2：用 3.22/data/amp0.1613 的数据来训练，cell 个数为 200，即对每个 amp-bias 组合，都把 200 个 cell 放进训练数据集。

```
Threenonlinear ,
ini learningRate = 1.000000e-02 ,
min batch size = 400 ,
DropPeriod = 8 , DropFactor = 0.100000 ,
amp = 0.161300, 0.161300,
bias = 0.050000, 0.090000, 0.130000, 0.170000, 0.210000, 0.250000, 0.290000,
   0.330000, 0.370000, 0.410000, 0.450000, 0.490000, 0.530000, 0.570000,
   0.610000, 0.650000, 0.690000, 0.730000, 0.770000, 0.810000, 0.850000,
data num = 200 , split num = 10 , train num = 1900
validationFrequency is floor(numel(xTrain)/miniBatchSize/2)
origin rate = 1.000000e+07 , receive rate = 6.000000e+07
H order = 48 ,related num = 8
Hidden Units = 60
Add zero num = 24
```

1.3 /Threenonlinear3：用 3.22/data/amp1 的数据来训练，cell 个数为 200，即对每个 amp-bias 组合，都把 200 个 cell 放进训练数据集。

```
Threenonlinear ,
ini learningRate = 1.000000e-02 ,
min batch size = 400 ,
DropPeriod = 8 , DropFactor = 0.100000 ,
amp = 1.000000, 1.000000,
bias = 0.050000, 0.090000, 0.130000, 0.170000, 0.210000, 0.250000, 0.290000,
   0.330000, 0.370000, 0.410000, 0.450000, 0.490000, 0.530000, 0.570000,
   0.610000, 0.650000, 0.690000, 0.730000, 0.770000, 0.810000, 0.850000,
data num = 200 , split num = 10 , train num = 1900
validationFrequency is floor(numel(xTrain)/miniBatchSize/2)
origin rate = 1.000000e+07 , receive rate = 6.000000e+07
H order = 48 ,related num = 8
Hidden Units = 60
Add zero num = 24
```