

light_data_3.22/result1/3.23:

1. /mix_bias/mix_amp: 训练数据为 data1 中不同 bias、不同 amp 的数据，且数据归一化。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。

1.1 /Threenonlinear1: 信号的幅度只有最大幅度，即 32000

```
Threenonlinear ,
ini learningRate = 1.000000e-02 ,
min batch size = 400 ,
DropPeriod = 8 , DropFactor = 0.100000 ,
amp begin = 1 , amp end = 1 , amp step = 1
data_num = 100 , split num = 10 , train num = 850
validationFrequency is floor(numel(xTrain)/miniBatchSize/4)
origin rate = 1.000000e+07 , receive rate = 6.000000e+07
H order = 48 ,related num = 8
Hidden Units = 60
Add zero num = 24
```

2. /trainedNet: 用 result2 中训练好的网络来测试 data1 中数据的性能。测试数据为不同 bias、不同 amp 的数据，且数据归一化。

2.1 /v1:

```
The network used is data_save/light_data_3.22/result2/3.23/10M/mix_bias/mix_amp/Threenonlinear1
The data used is data_save/light_data_3.22/data1/10M
|
```

light_data_3.22/result2/3.23:

1. /mix_bias/mix_amp: 训练数据为 data2 中不同 bias、不同 amp 的数据，且数据归一化。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。

1.1 /Threenonlinear1: 信号的幅度只有中等幅度，即 5161.6

```
Threenonlinear ,  
ini learningRate = 1.000000e-02 ,  
min batch size = 400 ,  
DropPeriod = 8 , DropFactor = 0.100000 ,  
amp begin = 1 , amp end = 1 , amp step = 1  
data_num = 100 , split num = 10 , train num = 850  
validationFrequency is floor(numel(xTrain)/miniBatchSize/4)  
origin rate = 1.000000e+07 , receive rate = 6.000000e+07  
H order = 48 ,related num = 8  
Hidden Units = 60  
Add zero num = 24
```

2. /trainedNet: 用 result1 中训练好的网络来测试 data2 中数据的性能。测试数据为不同 bias、不同 amp 的数据，且数据归一化。

2.1 /v1:

```
The network used is data_save/light_data_3.22/result1/3.23/10M/mix_bias/mix_amp/Threenonlinear1  
The data used is data_save/light_data_3.22/data2/10M
```

light_data_3.22/result3/3.23:

1. /mix_bias/mix_amp: 训练数据为 data1、data2 中所有的不同 bias、不同 amp

的数据，且数据归一化。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。

- 1.1 /Threenonlinear1: 信号的幅度既有最大幅度，即 32000；也有中等幅度，即 5161.6。并且有所有的 bias。

```
Threenonlinear ,
ini learningRate = 1.000000e-02 ,
min batch size = 400 ,
DropPeriod = 8 , DropFactor = 0.100000 ,
amp begin = 1 , amp end = 1 , amp step = 1
data_num = 100 , split num = 10 , train num = 1900
validationFrequency is floor(numel(xTrain)/miniBatchSize/4)
origin rate = 1.000000e+07 , receive rate = 6.000000e+07
H order = 48 ,related num = 8
Hidden Units = 60
Add zero num = 24
.
```

2. /trainedNet: 用 result3 中训练好的网络来测试其他数据的性能。测试数据

为不同 bias、不同 amp 的数据，且数据归一化。

- 2.1 /v1: 用 result3 中训练好的网络来测试 3.22/data1 中数据的性能

```
The network used is data_save/light_data_3.22/result3/3.23/10M/mix_bias/mix_amp/Threenonlinear1
The data used is data_save/light_data_3.22/data1/10M
```

- 2.2 /v2: 用 result3 中训练好的网络来测试 3.22/data2 中数据的性能

```
The network used is data_save/light_data_3.22/result3/3.23/10M/mix_bias/mix_amp/Threenonlinear1
The data used is data_save/light_data_3.22/data2/10M
```

- 2.3 /v3: 用 result3 中训练好的网络来测试 3.17/data 中数据的性能

```
The network used is data_save/light_data_3.22/result3/3.23/10M/mix_bias/mix_amp/Threenonlinear1
The data used is data_save/light_data_3.17/data/10M
```