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Epoch: 0001 cost= 0.251431826

Big Test Set

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999398 0.5006813

Prediction and the mean error on train set are: 0.500079 0.501125

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Epoch: 0006 cost= 0.250127712

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49996832 0.5003125

Prediction and the mean error on train set are: 0.4995924 0.48368752

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Epoch: 0011 cost= 0.250030933

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4998812 0.4898125

Prediction and the mean error on train set are: 0.4999271 0.49699998

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Epoch: 0016 cost= 0.250021289

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000202 0.502625

Prediction and the mean error on train set are: 0.49992457 0.491125

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Epoch: 0021 cost= 0.250012245

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50001913 0.5025625

Prediction and the mean error on train set are: 0.49998114 0.5004375

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Epoch: 0026 cost= 0.250015976

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49996516 0.49668747

Prediction and the mean error on train set are: 0.49996963 0.500125

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Epoch: 0031 cost= 0.250008335

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49998504 0.4985

Prediction and the mean error on train set are: 0.49991816 0.4946875

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Epoch: 0036 cost= 0.250007388

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50003135 0.5046875

Prediction and the mean error on train set are: 0.4999505 0.49612498

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Epoch: 0041 cost= 0.250010589

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50004345 0.507375

Prediction and the mean error on train set are: 0.49993268 0.49175

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Epoch: 0046 cost= 0.250008073

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49998963 0.4979375

Prediction and the mean error on train set are: 0.49991974 0.4863125

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Epoch: 0051 cost= 0.250007640

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000098 0.49743748

Prediction and the mean error on train set are: 0.49997136 0.4954375

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Epoch: 0056 cost= 0.250005825

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49997857 0.49462497

Prediction and the mean error on train set are: 0.49990582 0.4879375

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Epoch: 0061 cost= 0.250006055

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999862 0.4946875

Prediction and the mean error on train set are: 0.49996465 0.4985

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Epoch: 0066 cost= 0.250002322

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999237 0.496875

Prediction and the mean error on train set are: 0.49998015 0.5001875

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Epoch: 0071 cost= 0.250003004

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50000095 0.500875

Prediction and the mean error on train set are: 0.4999597 0.48931253

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Epoch: 0076 cost= 0.250005200

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000256 0.5028125

Prediction and the mean error on train set are: 0.50000995 0.5029375

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Epoch: 0081 cost= 0.250003507

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999383 0.5005625

Prediction and the mean error on train set are: 0.4999876 0.49949998

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Epoch: 0086 cost= 0.250004787

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999616 0.49981248

Prediction and the mean error on train set are: 0.4999908 0.49743748

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Epoch: 0091 cost= 0.250005761

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999312 0.4945625

Prediction and the mean error on train set are: 0.49999112 0.4971875

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Epoch: 0096 cost= 0.250003192

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000033 0.5011875

Prediction and the mean error on train set are: 0.49998927 0.495875

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Epoch: 0101 cost= 0.250001600

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999983 0.496625

Prediction and the mean error on train set are: 0.49998838 0.49756253

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Epoch: 0106 cost= 0.250003010

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999897 0.4994375

Prediction and the mean error on train set are: 0.49998158 0.49243748

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Epoch: 0111 cost= 0.250003884

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000138 0.50331247

Prediction and the mean error on train set are: 0.4999662 0.4928125

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Epoch: 0116 cost= 0.250003985

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999434 0.49774998

Prediction and the mean error on train set are: 0.5000166 0.5003125

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Epoch: 0121 cost= 0.250003892

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999276 0.500625

Prediction and the mean error on train set are: 0.49998987 0.4971875

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Epoch: 0126 cost= 0.250002583

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000104 0.5048125

Prediction and the mean error on train set are: 0.49997744 0.49550003

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Epoch: 0131 cost= 0.250001694

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999876 0.4953125

Prediction and the mean error on train set are: 0.49999055 0.4979375

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Epoch: 0136 cost= 0.250003426

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999207 0.49606252

Prediction and the mean error on train set are: 0.49998298 0.4955625

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Epoch: 0141 cost= 0.250002649

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999754 0.49037498

Prediction and the mean error on train set are: 0.4999735 0.4921875

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Epoch: 0146 cost= 0.250005023

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50000155 0.497375

Prediction and the mean error on train set are: 0.49999237 0.4953125

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Epoch: 0151 cost= 0.250001146

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50000423 0.5010625

Prediction and the mean error on train set are: 0.4999418 0.48712498

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Epoch: 0156 cost= 0.250004092

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000071 0.5005625

Prediction and the mean error on train set are: 0.4999944 0.49887502

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Epoch: 0161 cost= 0.250001970

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999897 0.49862498

Prediction and the mean error on train set are: 0.50002176 0.505375

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Epoch: 0166 cost= 0.250003577

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999586 0.4989375

Prediction and the mean error on train set are: 0.49998662 0.497375

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Epoch: 0171 cost= 0.250002356

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49998015 0.49774998

Prediction and the mean error on train set are: 0.4999771 0.4929375

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Epoch: 0176 cost= 0.250003625

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999928 0.495

Prediction and the mean error on train set are: 0.5000037 0.4988125

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Epoch: 0181 cost= 0.250003732

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000043 0.50181246

Prediction and the mean error on train set are: 0.4999933 0.50037503

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Epoch: 0186 cost= 0.250002612

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999067 0.4961875

Prediction and the mean error on train set are: 0.49999684 0.49825

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Epoch: 0191 cost= 0.250004524

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50000644 0.4985

Prediction and the mean error on train set are: 0.49999022 0.49493748

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Epoch: 0196 cost= 0.250000656

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000106 0.5051875

Prediction and the mean error on train set are: 0.499965 0.49356252

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Epoch: 0201 cost= 0.250003009

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50000364 0.505

Prediction and the mean error on train set are: 0.5000145 0.50049996

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Epoch: 0206 cost= 0.250002646

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999562 0.49518752

Prediction and the mean error on train set are: 0.4999651 0.49150002

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Epoch: 0211 cost= 0.250003762

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50001013 0.50093746

Prediction and the mean error on train set are: 0.49999195 0.4986875

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Epoch: 0216 cost= 0.250000805

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49996662 0.49675

Prediction and the mean error on train set are: 0.49996457 0.49624997

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Epoch: 0221 cost= 0.250003022

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000071 0.50787497

Prediction and the mean error on train set are: 0.49999803 0.4995625

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Epoch: 0226 cost= 0.250000681

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50000626 0.500625

Prediction and the mean error on train set are: 0.49999502 0.49931252

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Epoch: 0231 cost= 0.250003339

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999944 0.4980625

Prediction and the mean error on train set are: 0.5000046 0.5015

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Epoch: 0236 cost= 0.250001565

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999809 0.49356252

Prediction and the mean error on train set are: 0.49998805 0.4988125

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Epoch: 0241 cost= 0.250002977

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000101 0.50525

Prediction and the mean error on train set are: 0.49997944 0.49431252

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Epoch: 0246 cost= 0.249999583

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000422 0.508875

Prediction and the mean error on train set are: 0.49997857 0.497625

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Epoch: 0251 cost= 0.250003538

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999622 0.50425

Prediction and the mean error on train set are: 0.4999869 0.49275

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Epoch: 0256 cost= 0.250001501

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999386 0.49712503

Prediction and the mean error on train set are: 0.5000069 0.5003125

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Epoch: 0261 cost= 0.250002470

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50000083 0.4994375

Prediction and the mean error on train set are: 0.499992 0.4914375

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Epoch: 0266 cost= 0.250002486

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999902 0.49637502

Prediction and the mean error on train set are: 0.50000435 0.5005625

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Epoch: 0271 cost= 0.250002571

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50000656 0.50374997

Prediction and the mean error on train set are: 0.49999547 0.49675

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Epoch: 0276 cost= 0.250002741

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999891 0.49449998

Prediction and the mean error on train set are: 0.5000093 0.502

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Epoch: 0281 cost= 0.250002658

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000062 0.50374997

Prediction and the mean error on train set are: 0.49999517 0.4980625

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Epoch: 0286 cost= 0.250000691

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000099 0.50556254

Prediction and the mean error on train set are: 0.49998382 0.4946875

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Epoch: 0291 cost= 0.250001321

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000109 0.504

Prediction and the mean error on train set are: 0.49999145 0.49725002

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Epoch: 0296 cost= 0.250003106

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50001174 0.50075

Prediction and the mean error on train set are: 0.4999941 0.50006247

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Epoch: 0301 cost= 0.250002613

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999685 0.48724997

Prediction and the mean error on train set are: 0.5000087 0.5045625

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Epoch: 0306 cost= 0.250002054

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.500006 0.5049375

Prediction and the mean error on train set are: 0.500002 0.5065625

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Epoch: 0311 cost= 0.250002707

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000093 0.5020625

Prediction and the mean error on train set are: 0.49997982 0.49374998

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Epoch: 0316 cost= 0.250001655

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000117 0.49949998

Prediction and the mean error on train set are: 0.4999903 0.49962503

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Epoch: 0321 cost= 0.250003232

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50000894 0.50318754

Prediction and the mean error on train set are: 0.4999869 0.49525

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Epoch: 0326 cost= 0.250004962

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000047 0.50137496

Prediction and the mean error on train set are: 0.4999993 0.502125

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Epoch: 0331 cost= 0.250001751

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999897 0.49699998

Prediction and the mean error on train set are: 0.49999237 0.502

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Epoch: 0336 cost= 0.250001576

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49997297 0.491625

Prediction and the mean error on train set are: 0.4999766 0.49025

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Epoch: 0341 cost= 0.250001697

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50001776 0.501125

Prediction and the mean error on train set are: 0.49998873 0.49462497

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Epoch: 0346 cost= 0.250002992

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50000024 0.5025625

Prediction and the mean error on train set are: 0.4999958 0.50049996

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Epoch: 0351 cost= 0.250001650

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50001323 0.49918753

Prediction and the mean error on train set are: 0.49999377 0.49525

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Epoch: 0356 cost= 0.250001769

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000029 0.5024375

Prediction and the mean error on train set are: 0.5000023 0.502625

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Epoch: 0361 cost= 0.250003548

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999996 0.50325

Prediction and the mean error on train set are: 0.49998993 0.49181253

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Epoch: 0366 cost= 0.250002583

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999255 0.49681252

Prediction and the mean error on train set are: 0.5000072 0.49918753

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Epoch: 0371 cost= 0.250000433

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000023 0.500875

Prediction and the mean error on train set are: 0.49996197 0.4935

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Epoch: 0376 cost= 0.250001830

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.499978 0.4938125

Prediction and the mean error on train set are: 0.50000435 0.5004375

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Epoch: 0381 cost= 0.250000309

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000127 0.497625

Prediction and the mean error on train set are: 0.49998894 0.4923125

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Epoch: 0386 cost= 0.250003181

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999994 0.49712503

Prediction and the mean error on train set are: 0.4999982 0.495875

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Epoch: 0391 cost= 0.250001513

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999896 0.5020625

Prediction and the mean error on train set are: 0.4999997 0.496625

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Epoch: 0396 cost= 0.250002805

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999854 0.49418747

Prediction and the mean error on train set are: 0.49999478 0.497625

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Epoch: 0401 cost= 0.250003673

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000008 0.50081253

Prediction and the mean error on train set are: 0.49999422 0.49906248

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Epoch: 0406 cost= 0.250003488

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999843 0.496625

Prediction and the mean error on train set are: 0.49999872 0.50006247

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Epoch: 0411 cost= 0.250002411

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999678 0.49949998

Prediction and the mean error on train set are: 0.50000584 0.502125

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Epoch: 0416 cost= 0.250001887

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.499994 0.49768752

Prediction and the mean error on train set are: 0.49999425 0.5028125

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Epoch: 0421 cost= 0.249998377

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50000733 0.5029375

Prediction and the mean error on train set are: 0.4999848 0.497625

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Epoch: 0426 cost= 0.250001828

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49998972 0.49949998

Prediction and the mean error on train set are: 0.4999823 0.49150002

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Epoch: 0431 cost= 0.250001072

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000015 0.5004375

Prediction and the mean error on train set are: 0.4999929 0.4980625

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Epoch: 0436 cost= 0.250002955

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.4999987 0.49593753

Prediction and the mean error on train set are: 0.4999869 0.49387503

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Epoch: 0441 cost= 0.250003092

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.500009 0.5036875

Prediction and the mean error on train set are: 0.49999684 0.4985

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Epoch: 0446 cost= 0.250001979

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50000006 0.5015

Prediction and the mean error on train set are: 0.49998555 0.498375

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Epoch: 0451 cost= 0.250001334

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000099 0.50231254

Prediction and the mean error on train set are: 0.4999952 0.499875

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Epoch: 0456 cost= 0.250001096

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000146 0.50475

Prediction and the mean error on train set are: 0.50001085 0.504125

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Epoch: 0461 cost= 0.250000295

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.50001216 0.50625

Prediction and the mean error on train set are: 0.50001246 0.50699997

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Epoch: 0466 cost= 0.250003238

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999547 0.49699998

Prediction and the mean error on train set are: 0.4999933 0.4961875

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Epoch: 0471 cost= 0.249999613

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.499997 0.49756253

Prediction and the mean error on train set are: 0.49998108 0.49462497

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Epoch: 0476 cost= 0.250001373

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000111 0.5048125

Prediction and the mean error on train set are: 0.4999912 0.49774998

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Epoch: 0481 cost= 0.250001501

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49998206 0.496

Prediction and the mean error on train set are: 0.49999797 0.49774998

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Epoch: 0486 cost= 0.250001553

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999622 0.50137496

Prediction and the mean error on train set are: 0.49999535 0.49906248

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Epoch: 0491 cost= 0.250001469

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000234 0.5075625

Prediction and the mean error on train set are: 0.4999862 0.4961875

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Epoch: 0496 cost= 0.249998628

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49999315 0.49725002

Prediction and the mean error on train set are: 0.49998066 0.495875

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Epoch: 0501 cost= 0.250003183

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000125 0.5063125

Prediction and the mean error on train set are: 0.500018 0.508375

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Epoch: 0506 cost= 0.250001231

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.5000087 0.5039375

Prediction and the mean error on train set are: 0.5000225 0.509875

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Epoch: 0511 cost= 0.250002113

OFDM Detection QAM output number is 16 ,SNR = 15 ,Num Pilot = 64 , prediction and the mean error on test set are: 0.49997258 0.49406248

Prediction and the mean error on train set are: 0.5000103 0.5003125

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Process finished with exit code -1