train\_oversample:4130

train\_verification:1035

train\_train:2112

train:3146

test:784

phone9:234

phone10:211

phone11:144

phone12:213

10dB/STATE:4258

10dB/train/STATE:3409

10dB/test/STATE:849

phone9:234

phone10:211

phone11:144

phone12:213

TRAIN:

3146

accuracy: 1.0

[[213 0 0 0 0 0]

[ 0 279 0 0 0 0]

[ 0 0 790 0 0 0]

[ 0 0 0 471 0 0]

[ 0 0 0 0 845 0]

[ 0 0 0 0 0 548]]

TEST:

784

accuracy: 0.9846938775510204

[[ 51 0 0 0 1 1]

[ 0 60 0 0 7 2]

[ 0 0 197 0 0 0]

[ 0 0 0 117 0 0]

[ 0 1 0 0 210 0]

[ 0 0 0 0 0 137]]

PHONE9:

234

accuracy: 0.0

[[ 0 0 0]

[ 0 0 0]

[ 56 178 0]]

PHONE10:

211

accuracy: 0.0

[[ 0 36 118 16 41]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]]

PHONE11:

144

accuracy: 0.0

[[ 0 12 132]

[ 0 0 0]

[ 0 0 0]]

PHONE12:

213

accuracy: 0.0

[[ 0 79 134]

[ 0 0 0]

[ 0 0 0]]

10dB END+START+STATE

ACC:0.984251968503937

Precision:0.9858323494687131

Recall:0.983510011778563

F1\_score:0.9846698113207546

TRAIN:

3469

accuracy: 1.0

[[476 0 0 0 0 0]

[ 0 279 0 0 0 0]

[ 0 0 790 0 0 0]

[ 0 0 0 471 0 0]

[ 0 0 0 0 845 0]

[ 0 0 0 0 0 548]]

TEST:

849

[[ 37 28 1 0 6 46]

[ 0 28 0 0 9 32]

[ 2 0 182 4 1 8]

[ 0 0 0 117 0 0]

[ 4 20 0 0 167 20]

[ 2 33 0 0 0 102]]

acc= 0.7455830388692579

PHONE9:

234

[[ 0 0 0]

[ 0 0 0]

[231 3 0]]

acc= 0.0

PHONE10:

211

accuracy: 0.0

[[ 0 207 4]

[ 0 0 0]

[ 0 0 0]]

PHONE11:

144

accuracy: 0.0

[[ 0 144]

[ 0 0]]

acc= 0.0

PHONE12:

213

accuracy: 0.0

[[ 0 213]

[ 0 0]]

acc= 0.0

15dB END+START+STATE

ACC:0.8594791035735918

Precision:0.8668252080856124

Recall:0.8586572438162544

F1\_score:0.8627218934911242

TRAIN:

3469

[[476 0 0 0 0 0]

[ 0 279 0 0 0 0]

[ 0 0 790 0 0 0]

[ 0 0 0 471 0 0]

[ 0 0 0 0 845 0]

[ 0 0 0 0 0 548]]

acc= 1.0

TEST:

849

[[ 92 1 0 0 3 22]

[ 11 17 0 0 8 33]

[ 0 0 197 0 0 0]

[ 0 0 0 117 0 0]

[ 9 3 0 0 194 5]

[ 11 5 0 0 2 119]]

acc= 0.866902237926973

PHONE9:

[[ 0 0 0 0]

[ 0 0 0 0]

[ 0 0 0 0]

[ 82 109 43 0]]

acc= 0.0

PHONE10:

211

[[ 0 114 26 1 70]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]]

acc= 0.0

PHONE11:

144

[[ 0 43 101]

[ 0 0 0]

[ 0 0 0]]

acc= 0.0

PHONE12:

213

[[ 0 161 52]

[ 0 0 0]

[ 0 0 0]]

acc= 0.0

20dB END+START+STATE

ACC:0.6801938219261053

Precision:0.6922155688622754

Recall:0.6808009422850412

F1\_score:0.68646080760095

TRAIN:

3469

[[476 0 0 0 0 0]

[ 0 279 0 0 0 0]

[ 0 0 790 0 0 0]

[ 0 0 0 471 0 0]

[ 0 0 0 0 845 0]

[ 0 0 0 0 0 548]]

acc= 1.0

TEST:

849

[[106 3 0 0 2 7]

[ 10 34 0 0 11 14]

[ 1 0 196 0 0 0]

[ 0 0 0 117 0 0]

[ 7 3 0 0 201 0]

[ 8 9 0 0 0 120]]

acc= 0.911660777385159

PHONE9:

[[ 0 0 0 0]

[ 0 0 0 0]

[ 0 0 0 0]

[227 1 6 0]]

acc= 0.0

PHONE10:

211

[[ 0 202 4 5]

[ 0 0 0 0]

[ 0 0 0 0]

[ 0 0 0 0]]

acc= 0.0

PHONE11:

144

[[ 0 3 141]

[ 0 0 0]

[ 0 0 0]]

acc= 0.0

PHONE12:

213

[[ 0 6 207]

[ 0 0 0]

[ 0 0 0]]

acc= 0.0

25dB END+START+STATE

ACC:0.7310720775287705

Precision:0.7419354838709677

Recall:0.7314487632508834

F1\_score:0.7366548042704626

TRAIN:

3469

[[476 0 0 0 0 0]

[ 0 279 0 0 0 0]

[ 0 0 790 0 0 0]

[ 0 0 0 471 0 0]

[ 0 0 0 0 845 0]

[ 0 0 0 0 0 548]]

acc= 1.0

TEST:

849

[[107 0 0 0 0 11]

[ 1 42 0 0 5 21]

[ 0 0 197 0 0 0]

[ 0 0 0 117 0 0]

[ 6 3 0 0 202 0]

[ 0 2 0 0 0 135]]

acc= 0.9422850412249706

PHONE9:

[[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[78 4 95 57 0]]

acc= 0.0

PHONE10:

211

[[ 0 77 10 124]

[ 0 0 0 0]

[ 0 0 0 0]

[ 0 0 0 0]]

acc= 0.0

PHONE11:

144

[[ 0 3 141]

[ 0 0 0]

[ 0 0 0]]

acc= 0.0

PHONE12:

213

[[ 0 19 194]

[ 0 0 0]

[ 0 0 0]]

acc= 0.0

30dB END+START+STATE

ACC:0.8419139915202908

Precision:0.8491686460807601

Recall:0.8421672555948174

F1\_score:0.8456534594914252

TRAIN:

3469

[[476 0 0 0 0 0]

[ 0 279 0 0 0 0]

[ 0 0 790 0 0 0]

[ 0 0 0 471 0 0]

[ 0 0 0 0 845 0]

[ 0 0 0 0 0 548]]

acc= 1.0

TEST:

849

[[112 2 0 0 3 1]

[ 2 55 0 0 4 8]

[ 0 0 196 1 0 0]

[ 0 0 0 117 0 0]

[ 7 0 0 0 204 0]

[ 0 0 0 0 0 137]]

acc= 0.967020023557126

PHONE9:

[[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 28 27 176 3 0]]

acc= 0.0

PHONE10:

211

[[ 0 125 17 20 49]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]]

acc= 0.0

PHONE11:

144

[[ 0 144]

[ 0 0]]

acc= 0.0

PHONE12:

213

[[ 0 213]

[ 0 0]]

acc= 0.0

10dB END+START+STATE

ACC:0.984251968503937

Precision:0.9858323494687131

Recall:0.983510011778563

F1\_score:0.9846698113207546

TRAIN:

3469

[[476 0 0 0 0 0]

[ 0 279 0 0 0 0]

[ 0 0 790 0 0 0]

[ 0 0 0 471 0 0]

[ 0 0 0 0 845 0]

[ 0 0 0 0 0 548]]

acc= 1.0

TEST:

849

[[ 45 7 28 3 8 27]

[ 29 6 13 8 4 9]

[ 25 1 121 0 21 29]

[ 0 0 0 106 0 11]

[ 21 0 59 0 129 2]

[ 18 13 37 4 2 63]]

acc= 0.5535924617196702

PHONE9:

234

[[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 2 1 204 27 0]]

acc= 0.0

PHONE10:

211

[[ 0 2 9 2 189 9]

[ 0 0 0 0 0 0]

[ 0 0 0 0 0 0]

[ 0 0 0 0 0 0]

[ 0 0 0 0 0 0]

[ 0 0 0 0 0 0]]

acc= 0.0

PHONE11:

144

[[ 0 2 135 7]

[ 0 0 0 0]

[ 0 0 0 0]

[ 0 0 0 0]]

acc= 0.0

PHONE12:

213

[[ 0 2 211]

[ 0 0 0]

[ 0 0 0]]

acc= 0.0

15dB END+START+STATE

ACC:0.8594791035735918

Precision:0.8668252080856124

Recall:0.8586572438162544

F1\_score:0.8627218934911242

TRAIN:

3469

[[476 0 0 0 0 0]

[ 0 279 0 0 0 0]

[ 0 0 790 0 0 0]

[ 0 0 0 471 0 0]

[ 0 0 0 0 845 0]

[ 0 0 0 0 0 548]]

acc= 1.0

TEST:

849

[[ 54 8 21 3 10 22]

[ 17 13 7 0 8 24]

[ 19 2 139 0 15 22]

[ 0 0 0 109 0 8]

[ 14 2 21 0 173 1]

[ 25 2 27 0 1 82]]

acc= 0.6713780918727915

PHONE9:

[[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 73 142 1 18 0]]

acc= 0.0

PHONE10:

211

[[ 0 141 25 1 44]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]]

acc= 0.0

PHONE11:

144

[[ 0 26 11 6 101]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]]

acc= 0.0

PHONE12:

213

[[ 0 31 25 55 102]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]

[ 0 0 0 0 0]]

acc= 0.0