D ..... 1 ...... Features

0.58

3.24

0.36

7.20

0.47

LogMels

1.56

0.45

LogMels

CNN

CapsNet

Features

CapsNet

CNN

CNN

SoA

CapsNet

Baseline

Features

CapsNet Baseline

CNN

SoA

	Development
LogMels	Binaural LogMels
11.15	11.58

0.59

3.11

0.34

7.35

0.47

2.12

0.42

Binaural LogMels

Binaural LogMels

STFT 1.06

0.44

STFT

0.64

0.32

0.85

0.38

STFT

0.57

0.36

0.91

0.78

Development

0.69

0.52

RESULTS OF BEST PERFORMING MODELS IN TERMS OF ER ON THE TUT-SED 2016 & 2017 DATASET.

TUT-SED 2016 - Home

Binaural STFT

TUT-SED 2016 - Residential Area

Binaural STFT

TUT-SED 2016 - Averaged

**TUT-SED 2017** 

Binaural STFT

1.07

0.39

1.10

0.32

1.09

0.36

0.60

0.36

LogMels

LogMels

6.80

0.74

2.36

0.72

4.58

0.73

LogMels

1.38

0.58

Evaluation

0.88

0.79

Evaluation

0.93

0.79

Binaural LogMels

STFT

0.95

0.61

STFT

1.00

0.78

0.98

0.70

STFT

0.67

0.61

Binaural STFT

Binaural STFT

Binaural STFT

0.92

0.69

1.35

0.68

1.14

0.69

0.65

0.64

Binaural LogMels

Binaural LogMels

8.43

0.75

2.76

0.75

5.60

0.75

1.79

0.64