In [50]: runfile('D:/ISS/MTech2019/ISY5002/ISY5002-ISSM/ISSM_Assignment/ISSM_CA3/ISSM_CA3_GC_Test.py', wdir='D:/ISS/MTech2019/ISY5002/ISY5002-ISSM/ISSM_Assignment/ISSM_CA3')

Read train_lbl: (320, 32, 20, 20, 1) Read test_data: (80, 32, 20, 20, 1)

Read test_lbl: (80,)

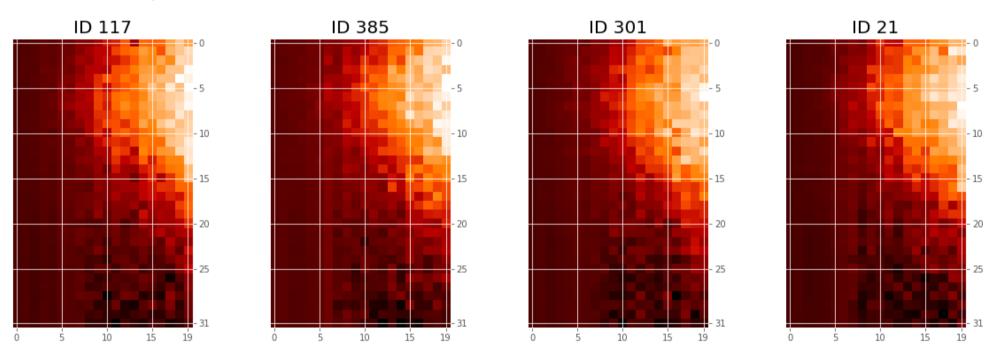
pretrained autoencoder model

Layer (type)	Output Shape	Param #
input_21 (InputLayer)	(None, 32, 20, 20, 1)	0
conv3d_80 (Conv3D)	(None, 32, 20, 20, 16)	144
conv3d_81 (Conv3D)	(None, 16, 10, 20, 32)	4128
conv3d_82 (Conv3D)	(None, 8, 5, 20, 64)	16448
conv3d_83 (Conv3D)	(None, 4, 3, 20, 128)	65664
<pre>conv3d_transpose_80 (Conv3DT</pre>	(None, 8, 6, 21, 128)	131200
lambda_20 (Lambda)	(None, 8, 5, 20, 128)	0
<pre>conv3d_transpose_81 (Conv3DT</pre>	(None, 16, 10, 20, 64)	65600
conv3d_transpose_82 (Conv3DT	(None, 32, 20, 20, 32)	16416
conv3d_transpose_83 (Conv3DT	(None, 32, 20, 20, 1)	257

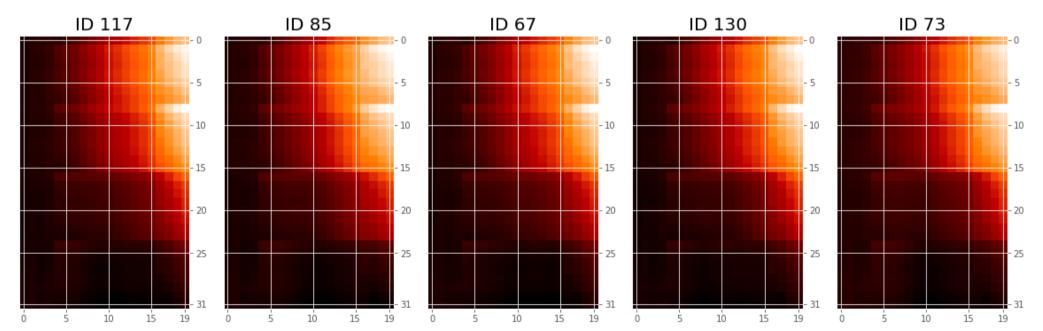
Total params: 299,857 Trainable params: 299,857 Non-trainable params: 0

Test data, shape: (80, 32, 20, 20, 1) Decoded Test data, shape: (80, 32, 20, 20, 1)

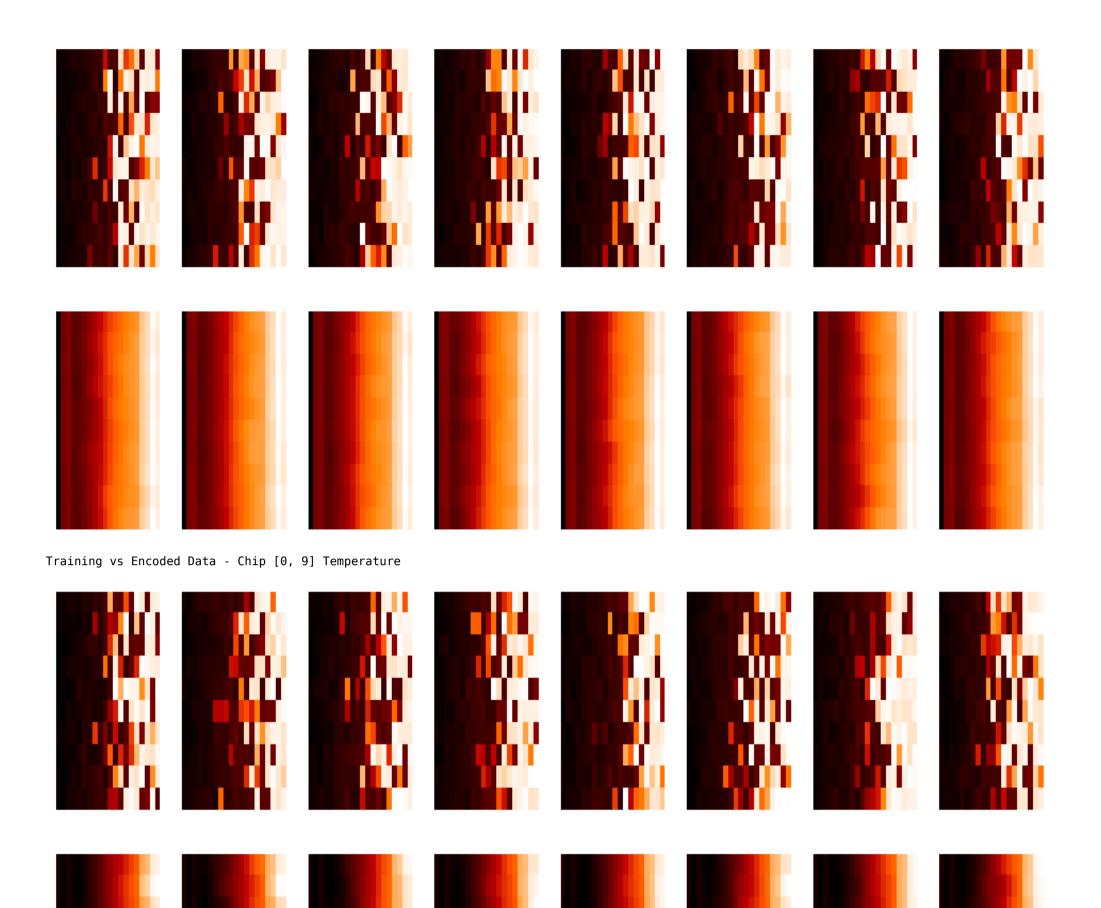
Test Data - Borad Temperature



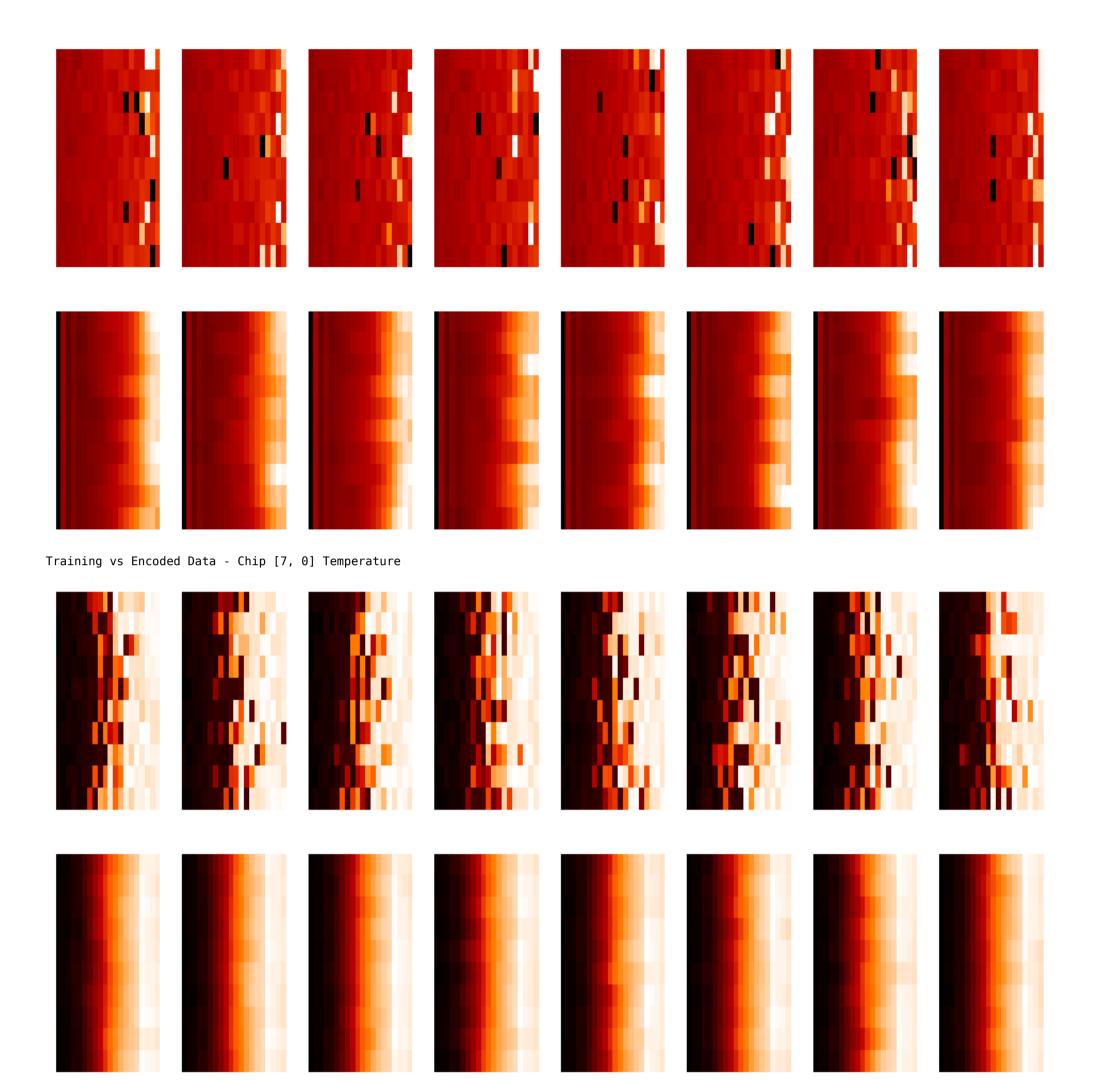
Encoded Test Data - Borad Temperature



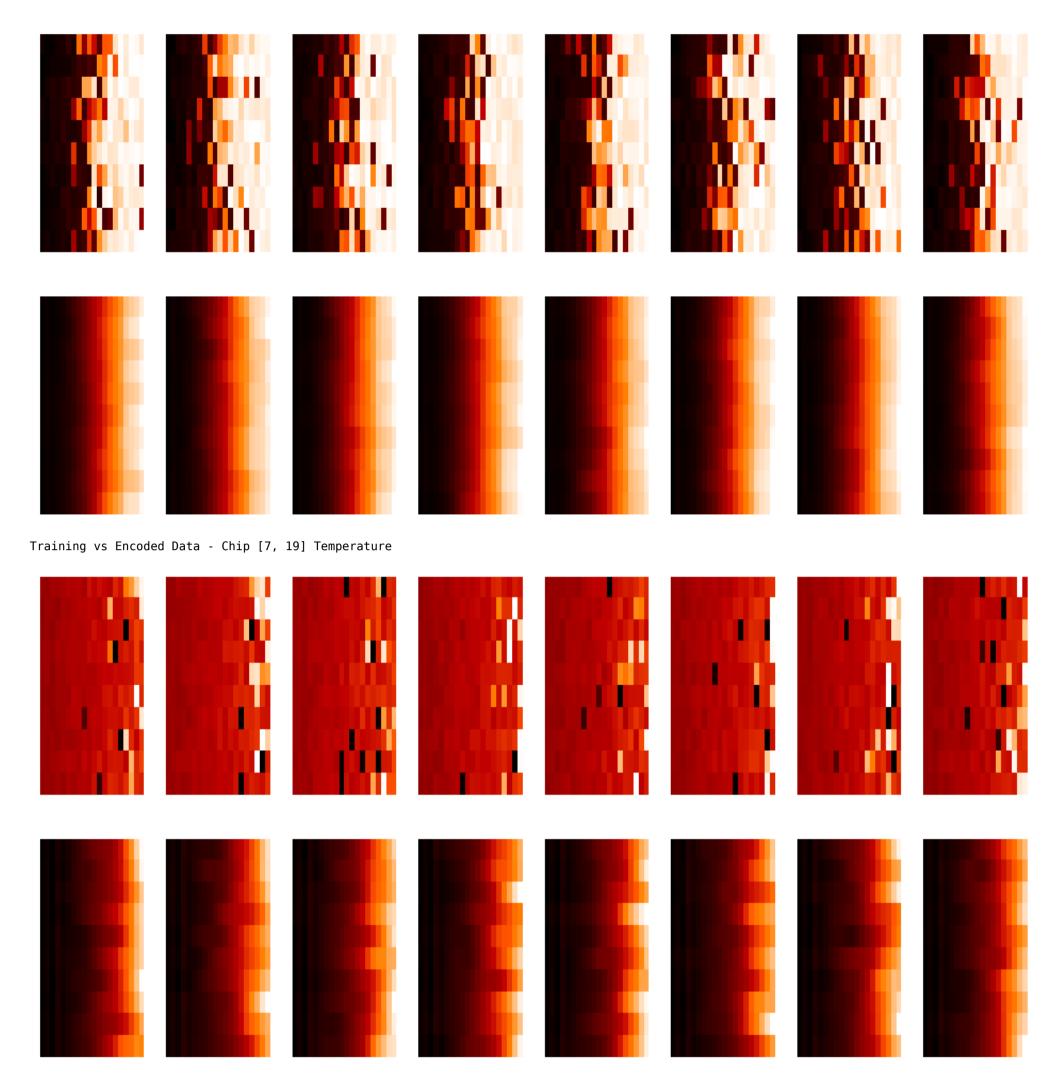
Training vs Encoded Data - Chip $[0, \ 0]$ Temperature



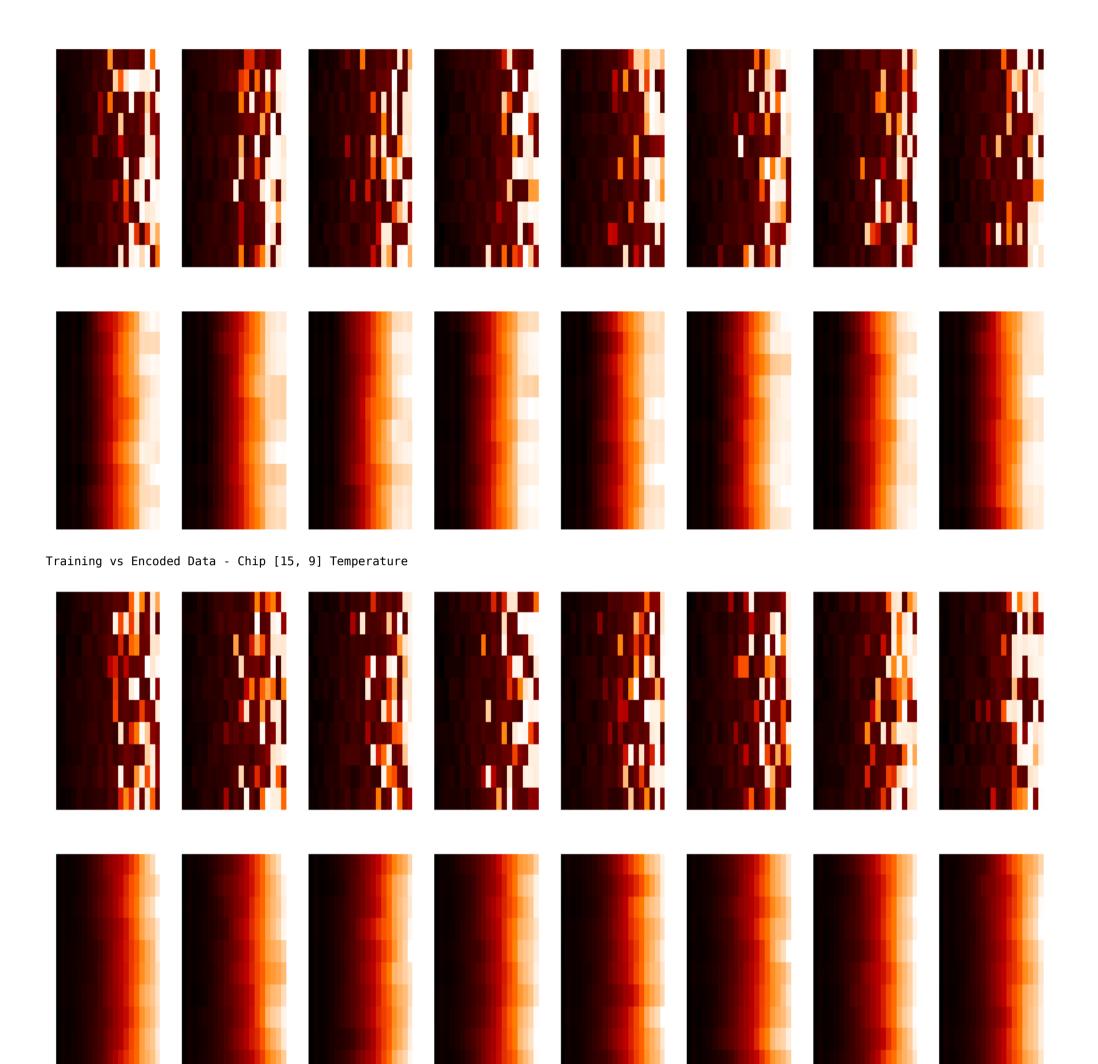
Training vs Encoded Data - Chip [0, 19] Temperature



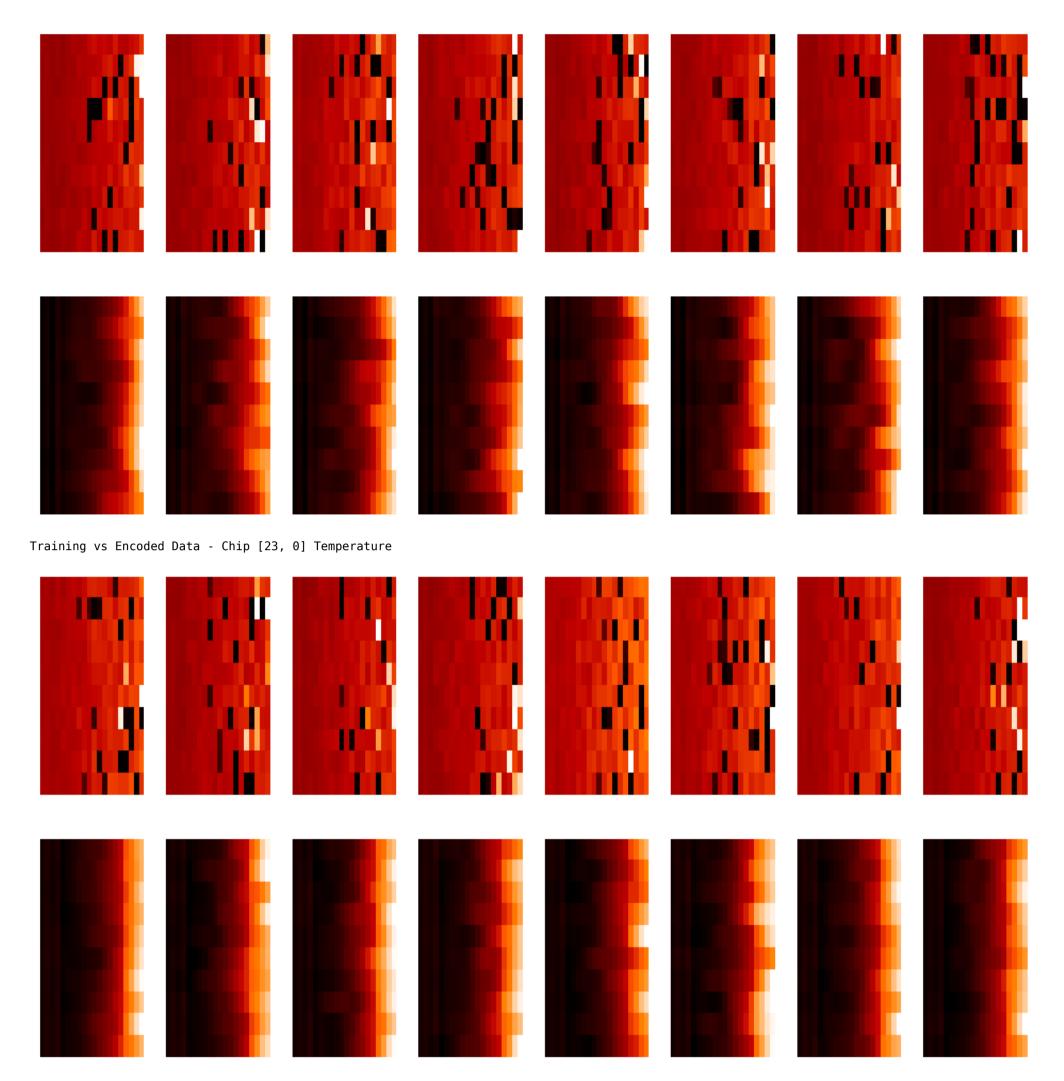
Training vs Encoded Data - Chip [7, 9] Temperature



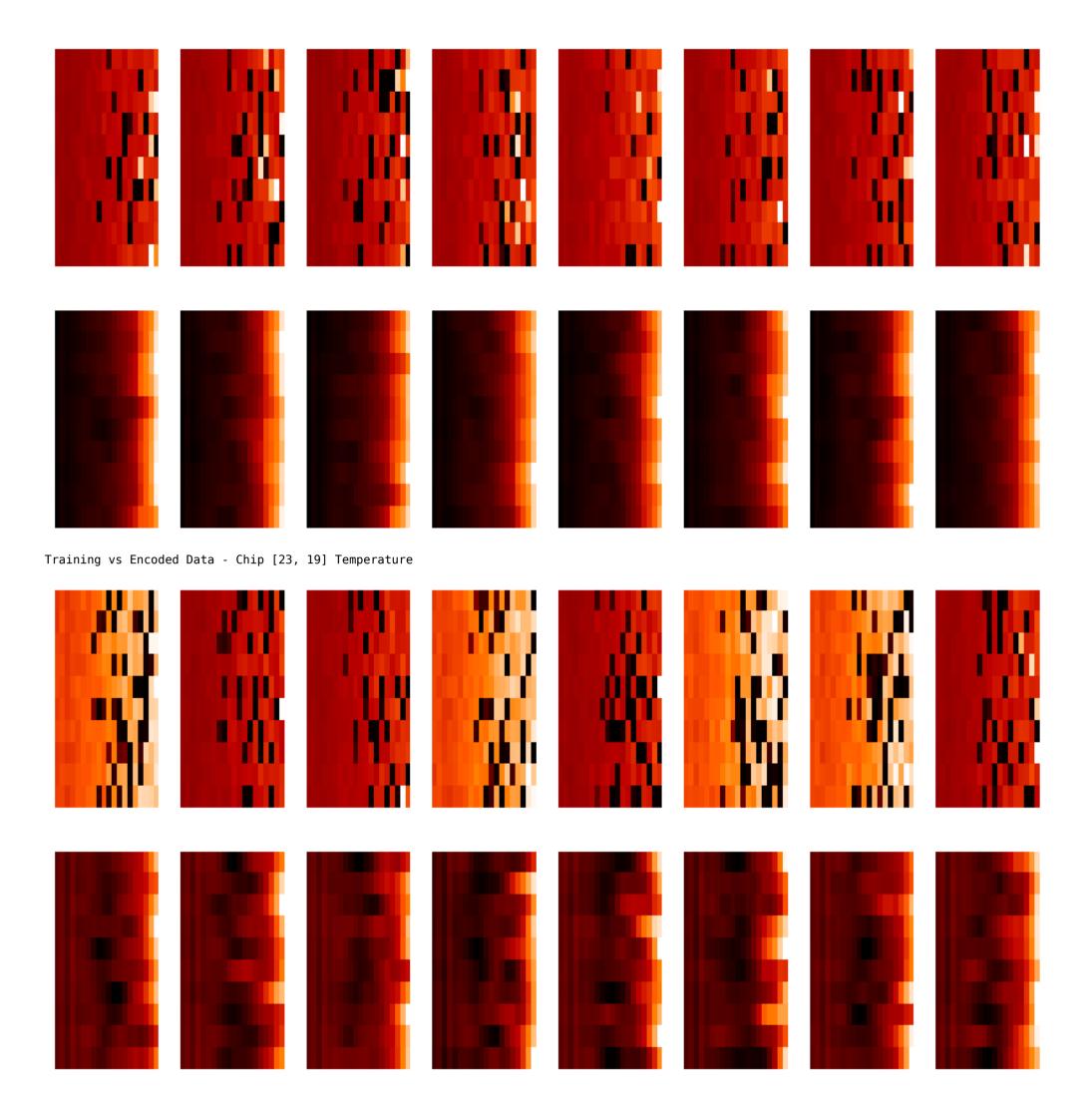
Training vs Encoded Data - Chip [15, 0] Temperature



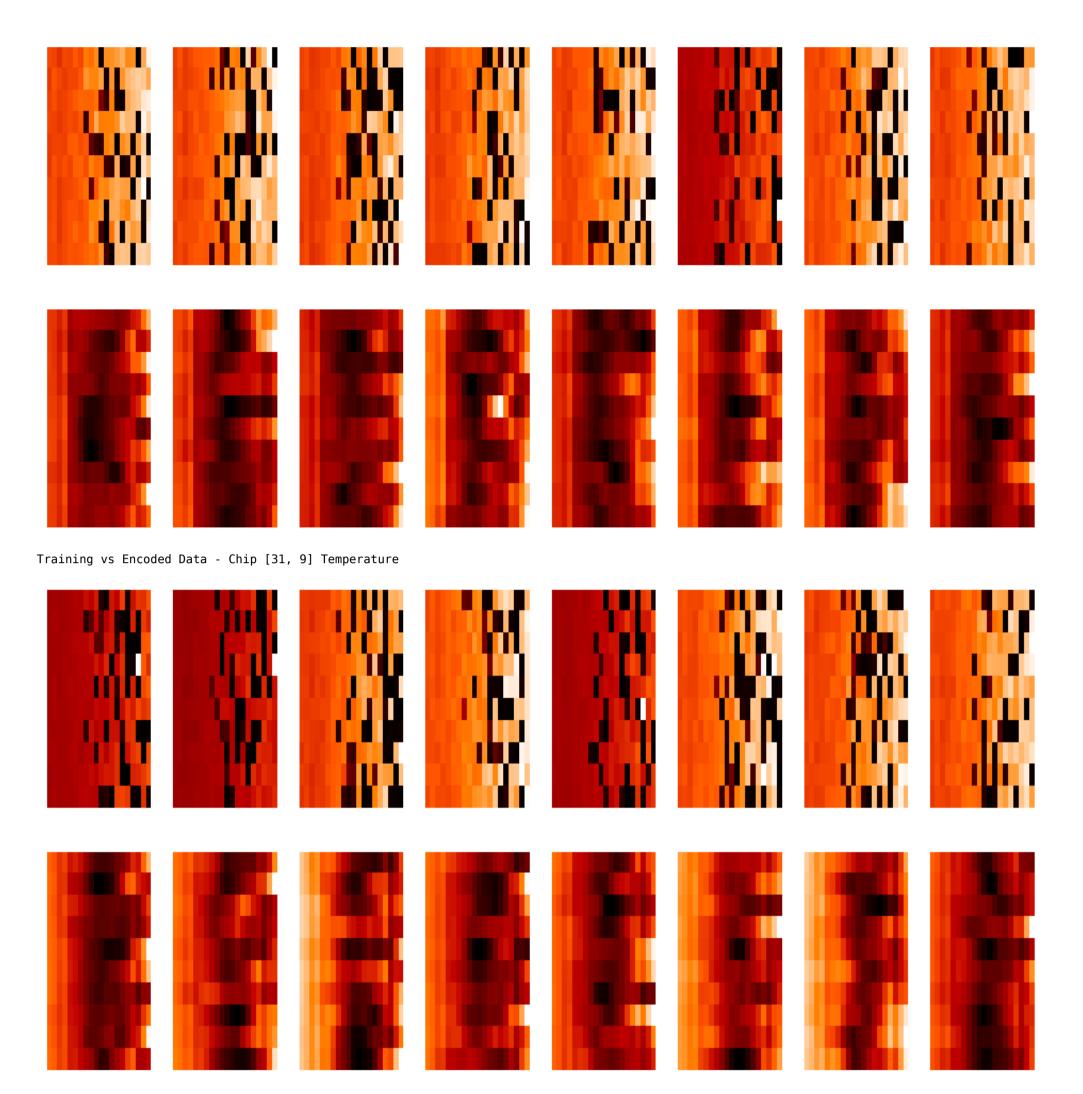
Training vs Encoded Data - Chip [15, 19] Temperature



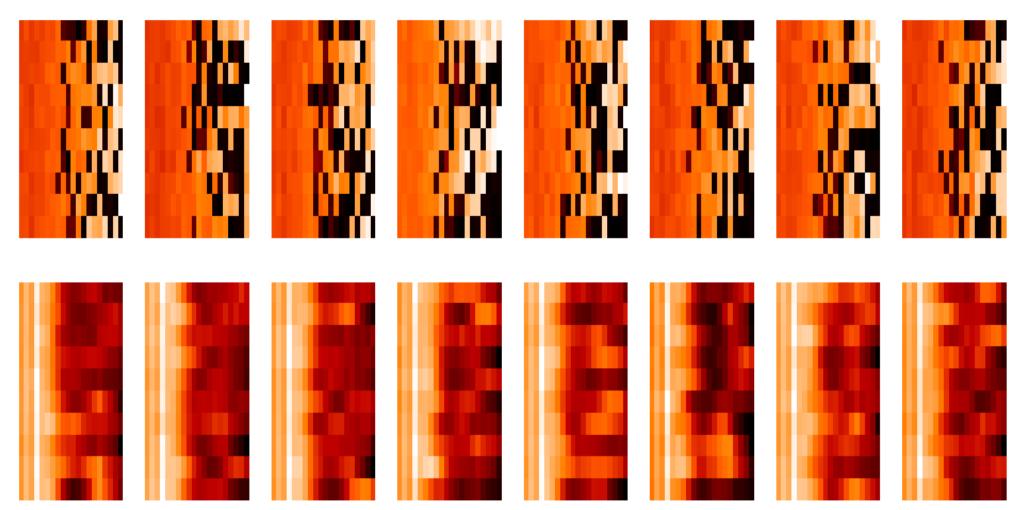
Training vs Encoded Data - Chip [23, 9] Temperature



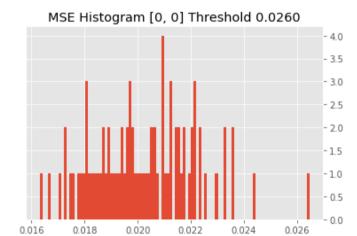
Training vs Encoded Data - Chip [31, 0] Temperature

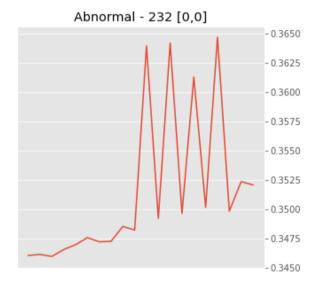


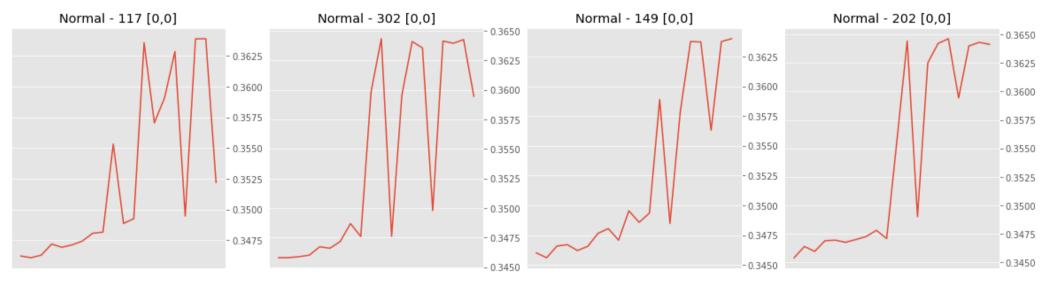
Training vs Encoded Data - Chip [31, 19] Temperature



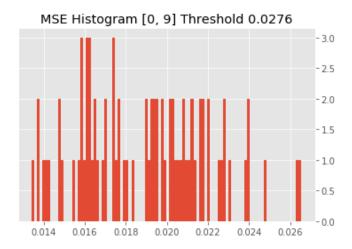
Read mse_threshold: (32, 20)

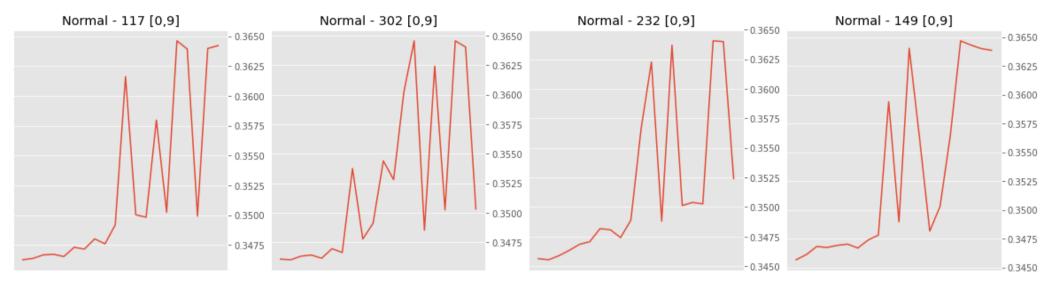


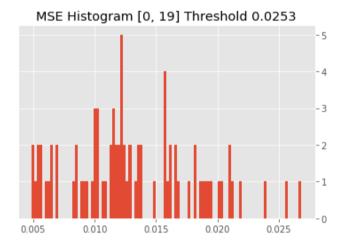


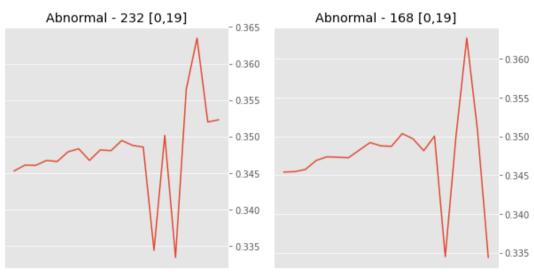


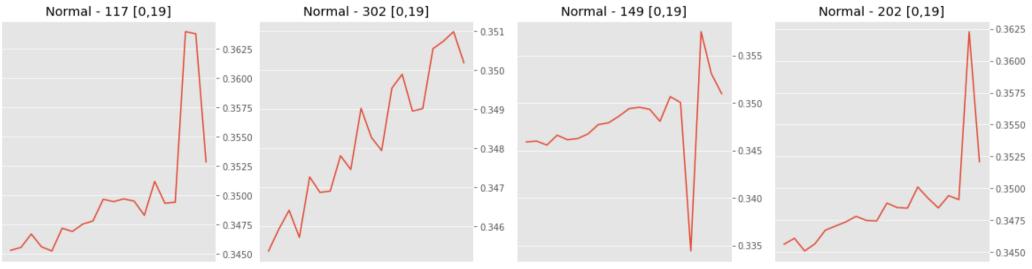
Abnormal chip not found at [0,9]



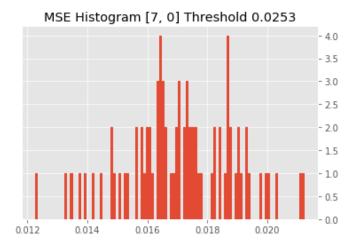


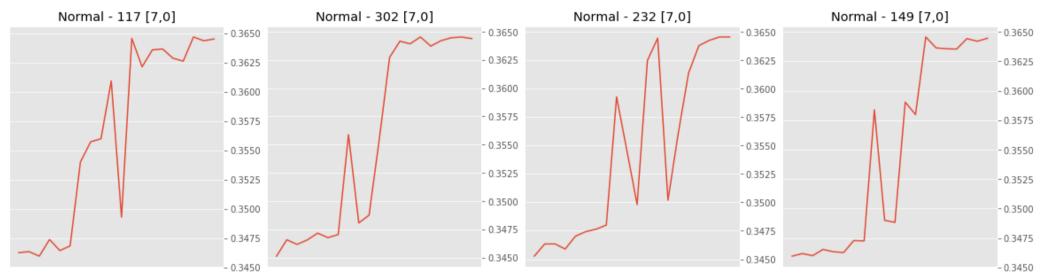


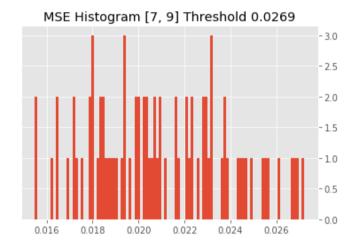


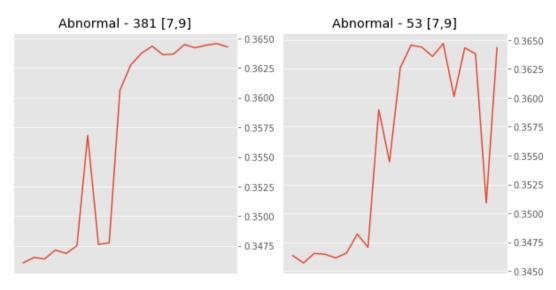


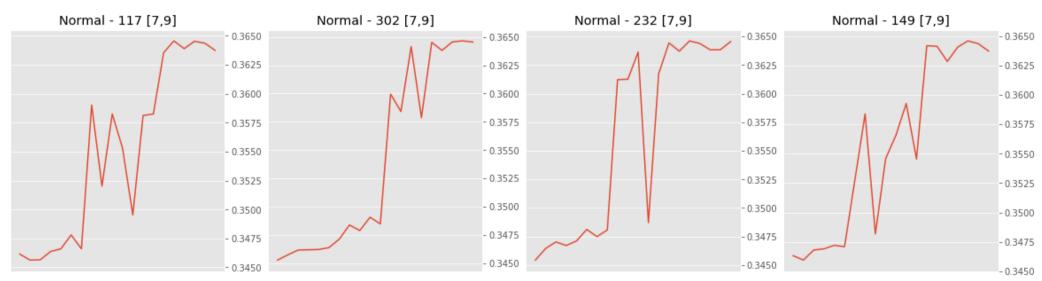
Abnormal chip not found at [7,0]











Abnormal chip not found at [7,19]

MSE Histogram [7, 19] Threshold 0.0326

-4.0
-3.5
-3.0
-2.5
-2.0
-1.5

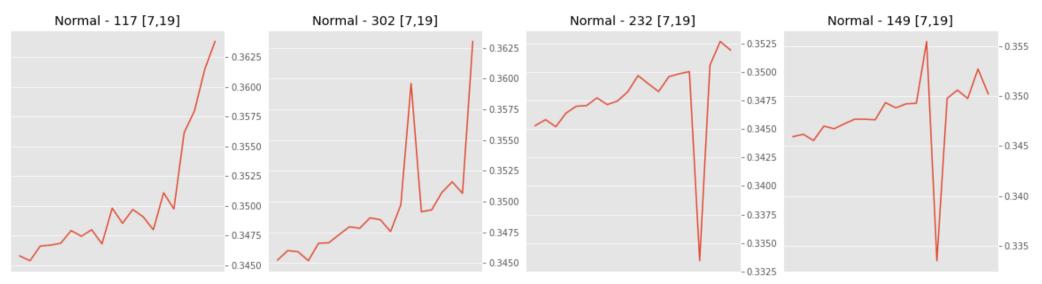
0.015

0.010

0.020

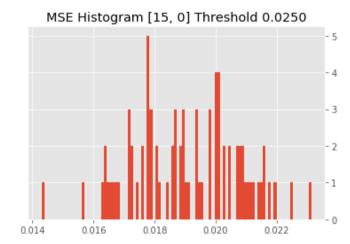
- 1.0

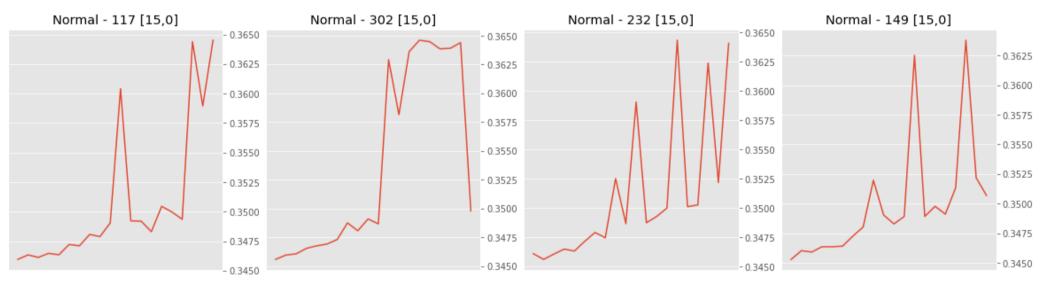
0.025



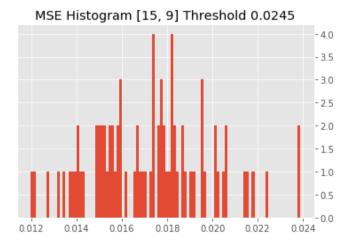
Abnormal chip not found at [15,0]

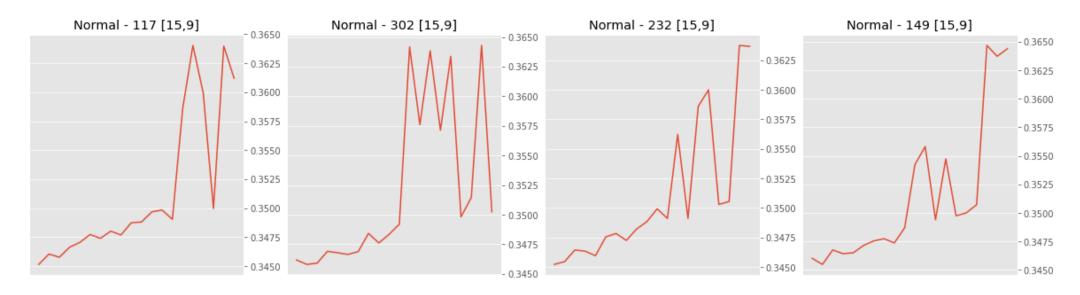
0.005

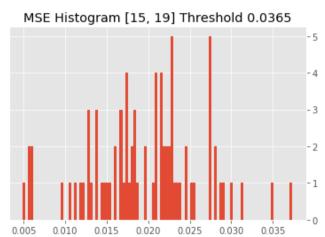


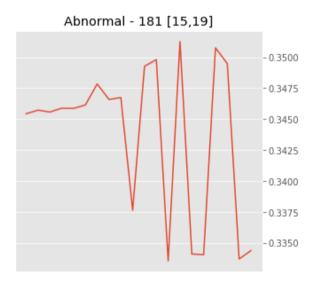


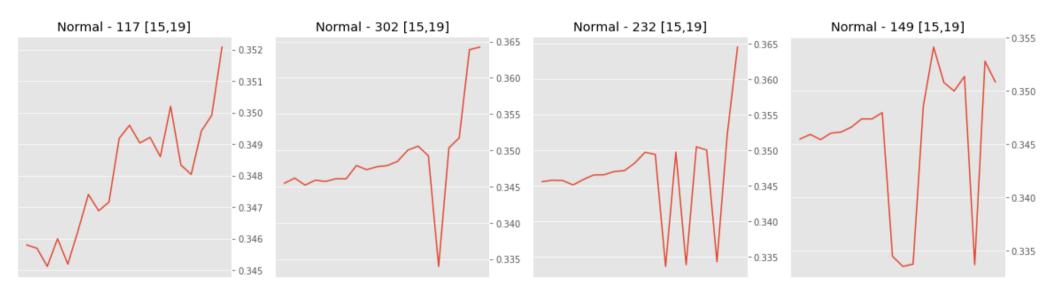
Abnormal chip not found at [15,9]

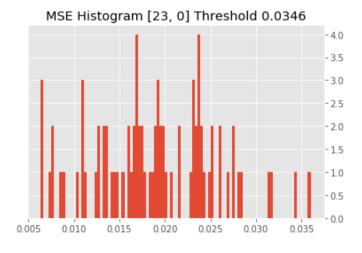


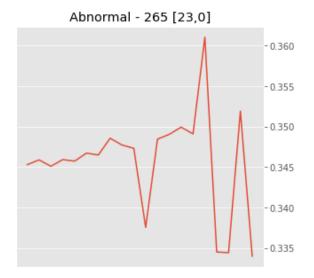


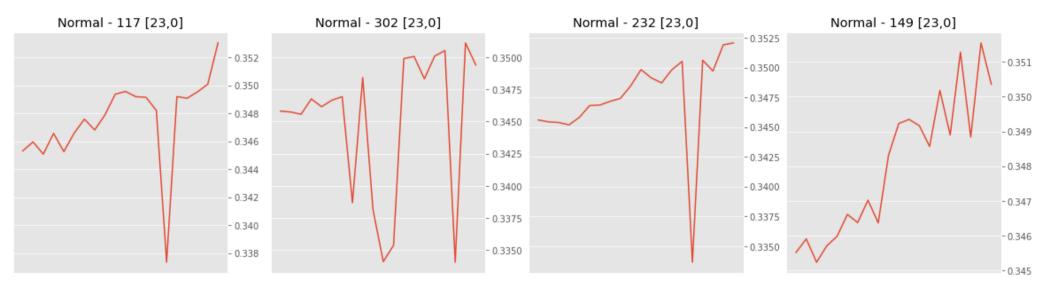




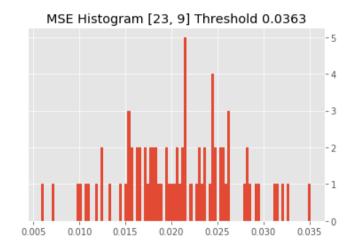


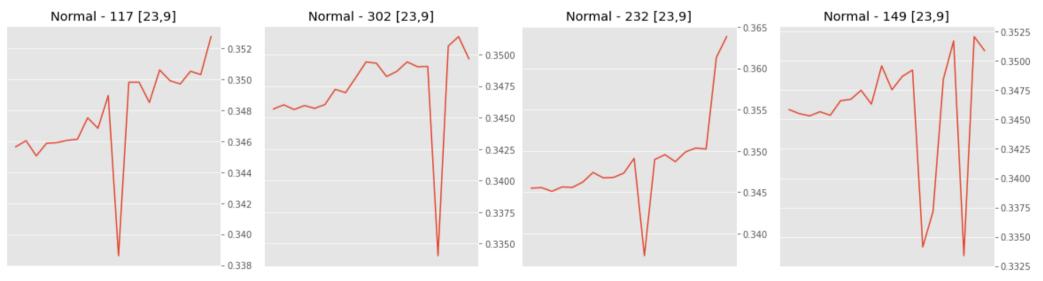




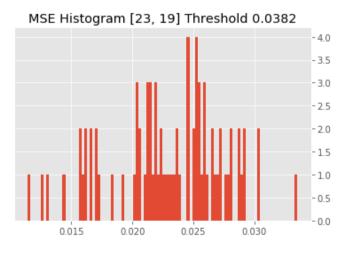


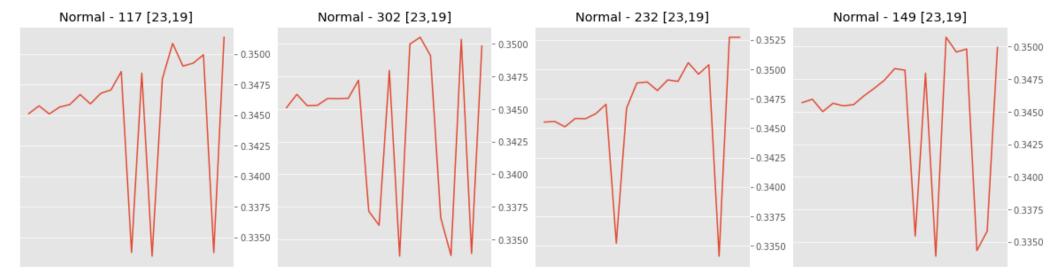
Abnormal chip not found at [23,9]



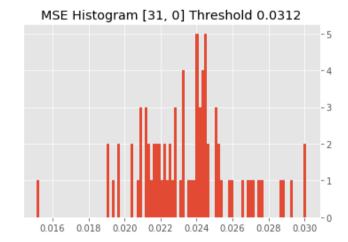


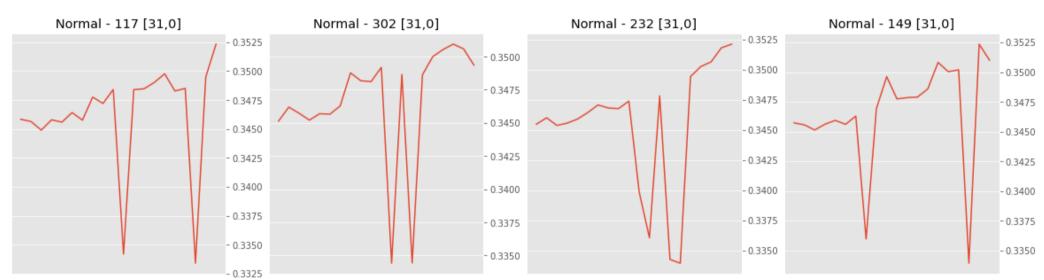
Abnormal chip not found at [23,19]



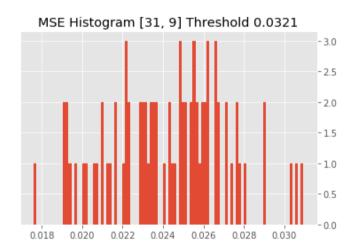


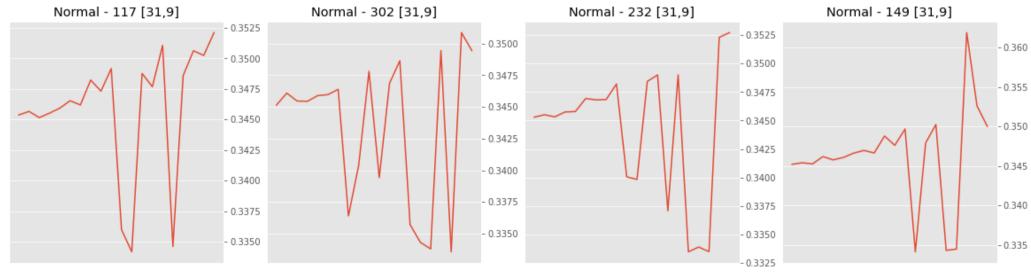
Abnormal chip not found at [31,0]



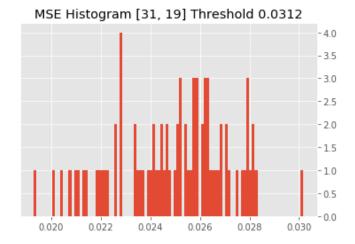


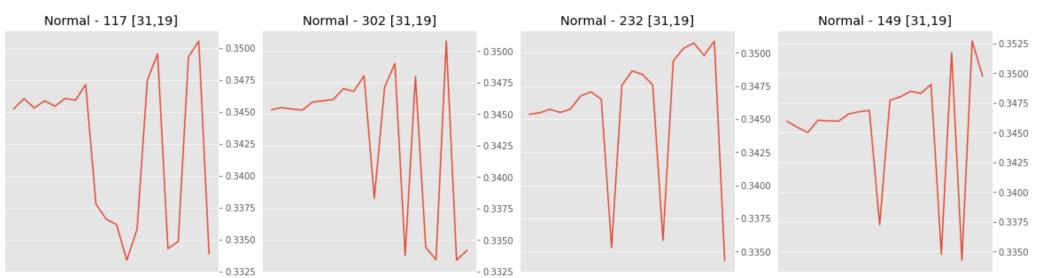
Abnormal chip not found at [31,9]





Abnormal chip not found at [31,19]





In [**51**]: