

MSS Tx Power Time-Averaging Verification

For
SMARTPHONE

FCC ID: BCG-E8947A
Model Name: A3258

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1. MSS Tx Power Time-Averaging Verification

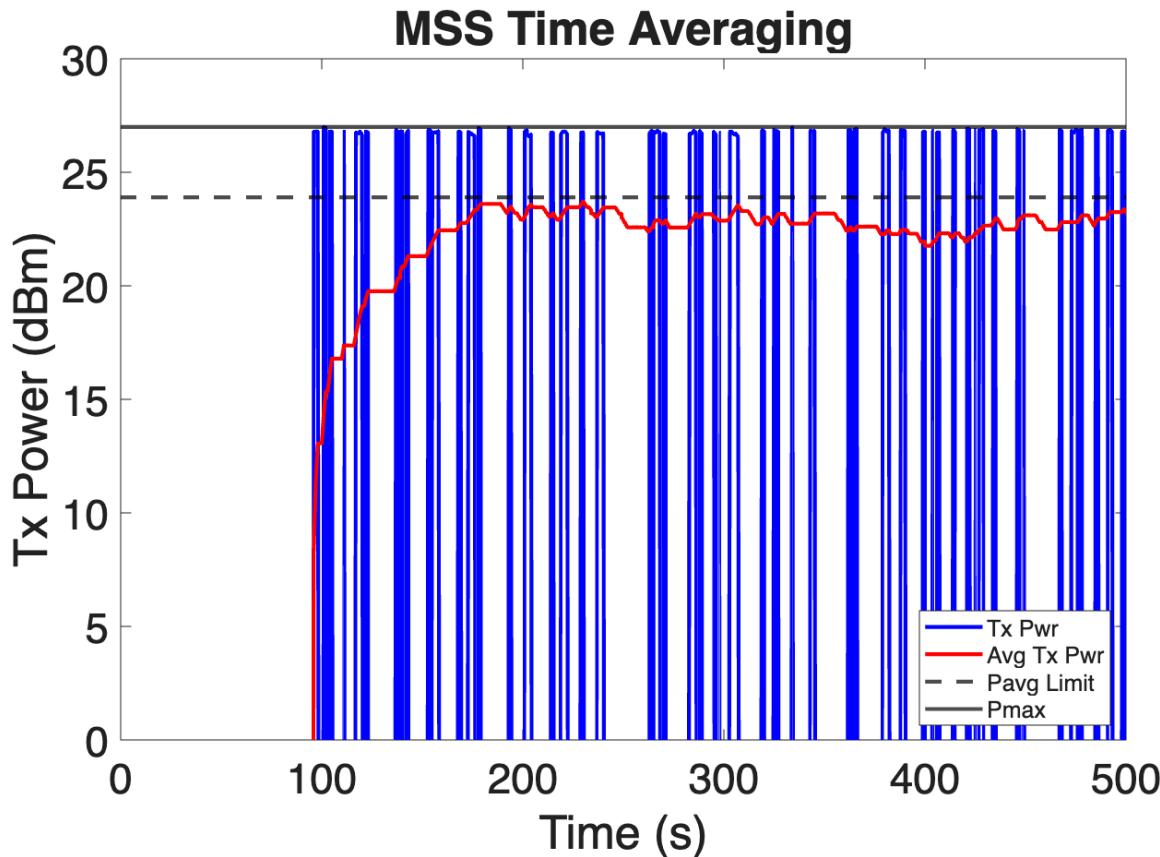
1.1. Introduction

The DUT supports time-averaged SAR (TAS) technology for the MSS transmitters. The TAS algorithm regulates MSS power transmission to ensure SAR compliance by calculating and tracking a rolling average power value.

Stored data from past transmissions is referenced to forecast the average power value assuming transmission at P_{\max} in the upcoming MSS transmission periods. Transmissions are moderated by the algorithm based on this forecast to always ensure the P_{avg} value remains compliant. More details can be found in the technical description.

Testing was performed by connecting the DUT to a callbox and configuring it to continuously attempt to send text messages. The instantaneous output power was monitored over time. A rolling average of the transmit power is calculated. The averaging period is 100s. This output is used to validate conformity with the average transmit power limit.

1.1.1. MSS Time-Averaging Test Results



Note(s):

- $P_{\text{lim}} = 25.0 \text{ dBm}$. $P_{\max} = 28.0 \text{ dBm}$
 - The 100s average power never exceeds P_{lim} .

END OF REPORT