

Supporting Information for Tx Power Excursion

Comment 38

Ramana Murty

Broadcom Inc.

Sep 8, 2026

Background

Transmitter power excursion (max) was 2.3 dBm measured with a hit ratio of 3×10^{-3} . The hit ratio was subsequently changed to 1×10^{-4} with an editors' note to revise the value for Tx power excursion.

- Tx power excursion (max) was changed from 2.3 dBm to 2.9 dBm in Clause 180 P802.3dj after hit ratio was changed from 1×10^{-2} to 1×10^{-4} , [johnson_3dj_01_2607](#)

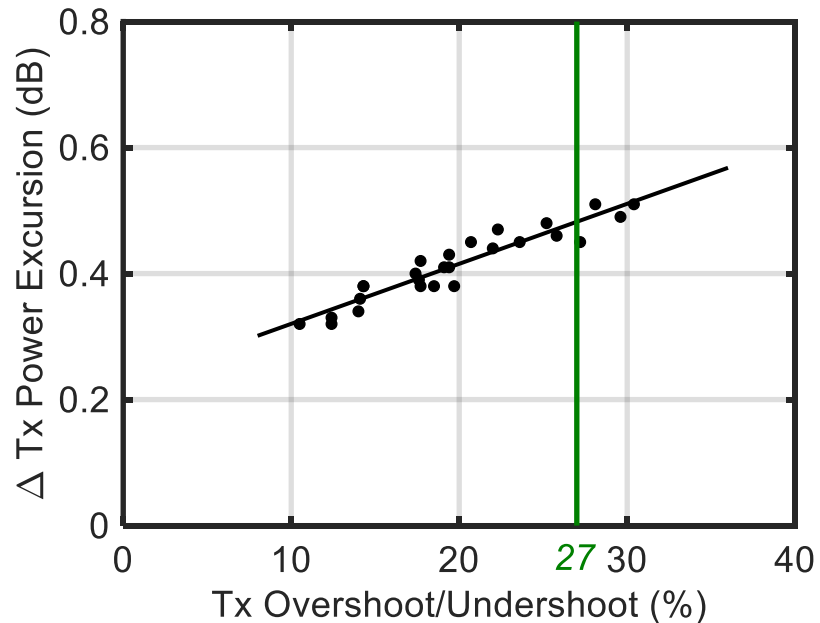
Tx Power Excursion Change

- Tx Power excursion = $\max(P_{\max} - P_{\text{average}}, P_{\text{average}} - P_{\min})$

where $P_{\max}$ and $P_{\min}$ are based on the hit ratio (HR)

- Tx power excursion of 2.8 dBm at 1×10^{-4} HR is equivalent to 2.3 dBm at 3×10^{-3}

$$\Delta \text{TPE (dB)} = \frac{\text{TPE}(1 \times 10^{-4} \text{HR})}{\text{TPE}(3 \times 10^{-3} \text{HR})}$$



Propose

Transmitter power excursion, each lane (max) 2.8 dBm