

From: Andrew Tran

To: Behnam Ghaffari

Date: July 31, 2019

Subject: 0589-EX-CN-2019

Message:

At the transmit antenna:

$P = \text{EIRP} = -97.01 \text{ dBm}$

$\text{ERP} = \text{EIRP} - 2.15 \text{ dBm} = -99.16 \text{ dBm} = 1.21\text{e-}13 \text{ W} = 0.12 \text{ pW} = 1 \text{ pW rounding up}$

At 30 meter away from the antenna:

$P(30\text{m}) = \text{EIRP}(30\text{m}) = -162.93 \text{ dBm}$

$\text{ERP}(30\text{m}) = \text{EIRP}(30\text{m}) - 2.15 \text{ dBm} = -165.08 \text{ dBm} = 3.1\text{e-}20 \text{ W}$