

APPENDIX E: TEST SEQUENCES

1. Test sequences are generated based on below parameters of the DUT:
 - a. The maximum possible instantaneous power (P_{max})
 - b. The maximum possible time-averaged power (P_{limit})
2. Time-varying Tx power transmission case 1a:
 - a. Request Tx power level of P_{max} for a period of time (duration dependent on configuration being tested), followed by $0.5 \times P_{limit}$, for a period of time (duration dependent on configuration being tested).
3. Time-varying Tx power transmission case 1b:
 - a. Request Tx power level of 1mW (0 dBm) for a period of time (duration dependent on configuration being tested), followed by P_{max} , for a period of time (duration dependent on configuration being tested).

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4. Time-varying Tx power transmission case 1c:

Pseudo-random time-varying TX power assessment. This test is run with a sequence of 150 power requests (P_{req}) for a time duration (T_{req}) calculated using the following equations:

$$P_{req} = P_{max,nom} \left(\frac{P_{limit,nom}}{P_{max,nom}} \right)^x$$

where 'x' is a random value drawn from the Weibull distribution with shape and scale parameters of 2.0 and 0.8 respectively.

$$T_{req} = 2(1 + 2y)$$

where y is a uniformly distributed random value between 0 and 1. The plot of P_{req} vs T_{req} shall be included in the validation report.

Figure E-1 illustrates a requested power sequence for $P_{limit,nom} = 100$ mW (20 dBm), $P_{max,nom} = 200$ mW (23 dBm) and $P_{req} \geq 1$ mW (0 dBm). The request durations have been rounded to the nearest second.

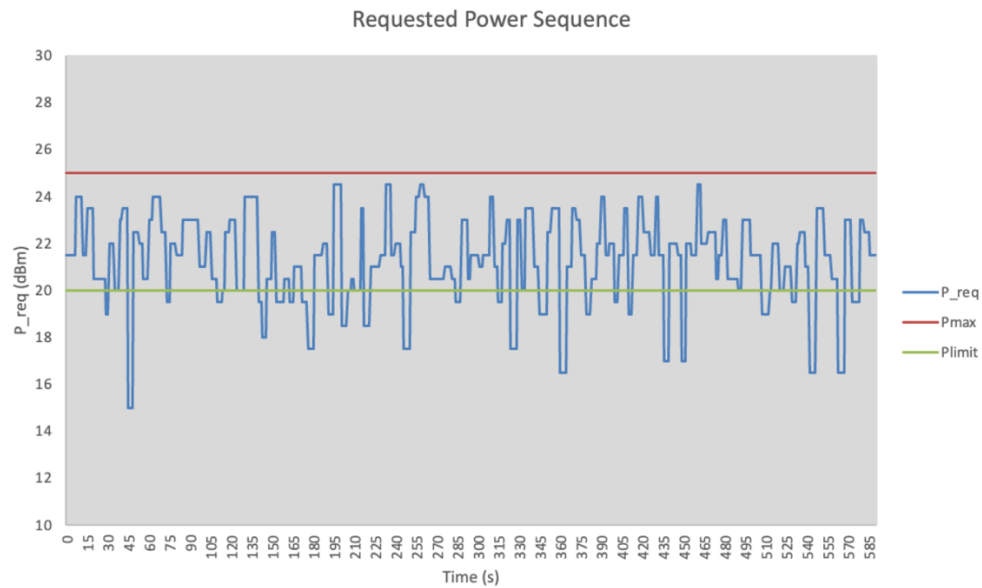


Figure E-1
Example plot of P_{req} versus time for Pseudo-Random Validation Sequence

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