

## 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:

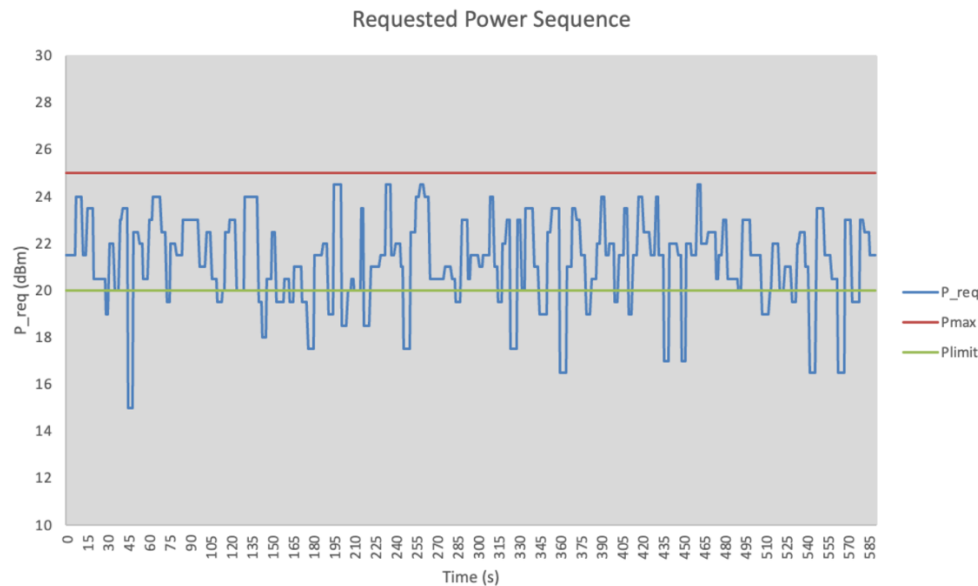
$$P_{req} = P_{max,nom} \left( \frac{P_{limit,nom}}{P_{max,nom}} \right)^x$$

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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