Standalone SAR test exclusion considerations

June 26, 2015

- Transmitting frequency =   **2480**   MHz
- Min. test separation distance =   **0**   mm   A distance of 5mm is applied to determine SAR test exclusion instead of 0mm.
- Max. power with turn-up tolerance =   **6.00**   dBm   =   **4**   mW

Typical Power: **4.00**   dBm   ±   **2.00**   dB

Measured Average Power: **5.10**   dBm

Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances ≤ 50 mm =   Used

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

= [4.00   /   5   ] * [√   2.48   ]

=   **1.26**   ≤ 3, for 1g SAR   Thus SAR for this device is not required.

Step 2-1) SAR test exclusion thresholds for 100MHz to 1500MHz at test separationn distances > 50 mm =   N/A

[Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW

Step 2-2) SAR test exclusion thresholds for 1500MHz to 6GHz at test separationn distances > 50 mm =   N/A

[Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW