

Standalone SAR test exclusion considerations

June 4, 2015

- Min. transmitting frequency = **2480** MHz
- Min. test separation distance = **30** mm
- Max. power with turn-up tolerance = **11.50** dBm = **15** mW
 Typical Power: **8.50** dBm $\pm$ **3.00** dB
 Measured Average Power: **10.96** dBm

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

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

= $[15.00 / 30] \cdot [\sqrt{2.48}]$

= **0.79** ≤ 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**

$[\text{Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)] \text{ mW}$

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

$[\text{Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot 10] \text{ mW}$