

Standalone SAR test exclusion considerations

May 25, 2016

- Min. transmitting frequency = 2480 MHz
- Min. test separation distance = 39.8 mm
- Max. power with turn-up tolerance = 10.50 dBm = 12 mW
 - Maximum Typical Power : 10.50 dBm
 - Measured Average Power: 10.04 dBm

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

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

= $[12.00 / 39.8] \cdot [\sqrt{2.48}]$

= **0.47** ≤ 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 separation 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 separation distances > 50 mm = **N/A**

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