

Standalone SAR test exclusion considerations for 1Mbps

June 18, 2015

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- Transmitting frequency = 2480 MHz
- Min. test separation distance = 5 mm

- Max. power with turn-up tolerance = 6.50 dBm = 5 mW

Max Target Power : 6.50 dBm

Measured Average Power: 5.59 dBm
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Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances \leq 50 mm = Used [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] = [5.00 / 5] * [$\sqrt{2.48}$] = 1.57 \leq 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 [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



Standalone SAR test exclusion considerations for 2,3Mbps

June 18, 2015

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- Transmitting frequency = 2480 MHz

- Min. test separation distance = 5 mm

- Max. power with turn-up tolerance = 3.00 dBm = 2 mW

Max Target Power : 3.00 dBm

Measured Average Power: 2.01 dBm
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Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances \leq 50 mm = Used [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [\sqrt{f} (GHz)] = [2.00 / 5] * [$\sqrt{2.48}$] = 0.63 \leq 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 [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