

*** Standalone SAR test exclusion considerations****● Low Channel**

- Transmitting frequency = 2402 MHz
- Min. test separation distance = 5 mm
- Max. Power with tune-up tolerance = -1.93 dBm = 0.64 mW
(Measured Maximum average power = -2.43 dBm \pm 0.5dB)

Step 1)

SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance ≤ 50 mm = **Used**

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

$$=[0.64 / 5] * [\sqrt{2.402}] = 0.1988 \leq 3, \text{ for 1g SAR}$$

● Middle Channel

- Transmitting frequency = 2440 MHz
- Min. test separation distance = 5 mm
- Max. Power with tune-up tolerance = -4.65 dBm = 0.34 mW
(Measured Maximum average power = -5.15 dBm \pm 0.5dB)

Step 1)

SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance ≤ 50 mm = **Used**

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

$$=[0.34 / 5] * [\sqrt{2.440}] = 0.1071 \leq 3, \text{ for 1g SAR}$$

● **High Channel**

- Transmitting frequency = 2480 MHz
- Min. test separation distance = 5 mm
- Max. Power with tune-up tolerance = -7.40 dBm = 0.18 mW
- (Measured Maximum average power = -7.90 dBm ± 0.5dB)

Step 1)

SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance ≤ 50 mm = **Used**

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

$$= [0.18 / 5] * [\sqrt{2.480}] = 0.0573 \leq 3, \text{ for 1g SAR}$$

Thus, SAR for this device is not required.