

RF EXPOSURE TEST

Portable device

Accordance to RSS-102 Issue 4, the device is exempt from SAR/RF Exposure assessment based on the output power being less than 20mW

The device has a standalone transmission.

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$

Maximum measured transmitter power

Frequency (MHZ)	Max Antenna Gain (dBm)	EIRP (dBm)	EIRP (mW)
2402	1.83	3.748dBm	3.89
2441	1.83	2.623dBm	3.35
2480	1.83	2.598dbm	3.34

The maximum tune-up limit power is 3.89mW

For the head and body SAR, use 5mm as the conservative minimum test separation distance,

$$[(3.89\text{mW})/(5\text{mm})] \cdot [\sqrt{2.402(\text{GHz})}] = 1.205 \leq 3.0$$

Conclusion: So standalone SAR measurements are not required for both head and body