

Radio Frequency Human Exposure Evaluation:

The EUT has two Zigbee radio modules. The combined output power of the modules is 4.11dBm i.e. 2.58mW.

The Minimum separation distance from radiating antenna to the enclosure is more than 3mm

When the standalone SAR test exclusion of section 4.3.1 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to determine simultaneous transmission SAR test exclusion:

(Max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√ f (GHz)/x] W/kg for test separation distances ≤ 50 mm;

where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

For this EUT, the SAR estimated is 0.179W/kg by using the above formula.

Hence further measurement of SAR is not required as per 447498 D01 General RF Exposure Guidance v05r02