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Radio Frequency Exposure

EUT INFORMATION

EUT	Smart Band
Frequency band (Operating)	2.457 GHz
Antenna diversity	 Single antenna Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Field strength	83.52 dBuV/m @3m
Antenna gain (Max)	0 dBi

TEST RESULT

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

The min. test separation distance (mm) is 5 mm,

eirp =
$$pt*gt = (E*d)^2/30$$

where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- $10^{((dBuV/m)/20)}/10^6$

d = measurement distance in meters (m) --- 3m

So pt = $(E*d)^2/30*gt$

So pt = { $[10^{(83.52/20)}/10^{6*}3]^2/30$ }*1000 mW = 0.0674 mW So (0.0674 mW/5mm)* $\sqrt{2.457}$ GHz = **0.021** <3.0 for 1-g SAR

Therefore, standalone SAR measurements are not required for both head and body.

Page No. : 1 of 1