

Radio Frequency Exposure

EUT INFORMATION

EUT	Mouse
FCC ID	2A9L8-E1WL
Frequency band (Operating)	2.402~2.480 GHz
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Field strength	85.75 dBuV/m @3m
Antenna gain (Max)	2.71 dBi

TEST RESULT

According to KDB 447498 D01 v06 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distance ≤ 50 mm are determined by:

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

$$\text{eirp} = \text{pt} \cdot \text{gt} = (E \cdot d)^2 / 30$$

where:

pt = transmitter output power in watts,

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

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

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

$$\text{So pt} = (E \cdot d)^2 / (30 \cdot \text{gt})$$

Ant. numeric gain, Ant. = 2.71 dBi = 1.87

$$\text{So pt} = \{[10^{(85.75/20)/10^6} \cdot 3]^2 / (30 \cdot 1.87)\} \cdot 1000 = 0.060 \text{ mW}$$

$$\text{So } (0.060 \text{ mW}/5 \text{ mm}) \cdot \sqrt{2.440 \text{ GHz}} = 0.019 < 3.0 \text{ for 1-g SAR}$$

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

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