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Radio Frequency Exposure

EUT INFORMATION

EUT	Evoluent VerticalMouse C Replacement Receiver
Frequency band (Operating)	2.405~2.475 GHz
Antenna diversity	 Single antenna Multiple antennas ☐ Tx diversity ☐ Rx diversity ∑ Tx/Rx diversity
Field strength	77.15 dBuV/m @3m
Antenna gain (Max)	3.45 dBi

TEST RESULT

According to KDB 447498 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,

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

Ant. numeric gain, Ant. = 3.45 dBi = 2.21
So pt = $\{[10^{(77.15/20)}/10^{6*}3]^2/(30^*2.21)\}^*1000 = 0.007$ mW
So (0.007 mW/5 mm)* $\sqrt{2.475}$ GHz = **0.002** <3.0 for 1-g SAR

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

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