

## RF EXPOSURE EVALUATION METHOD

**According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)**

According to KDB 447498 D01 General RF Exposure Guidance v06, Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

## EUT Specification

<b>EUT</b>	Air Mouse
<b>FCC ID</b>	2BL26-W3
<b>Frequency band (Operating)</b>	<input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.150GHz ~ 5.250GHz <input type="checkbox"/> WLAN: 5.725GHz ~ 5.850GHz <input checked="" type="checkbox"/> Others 2.4g:2402-2476MHz
<b>Device category</b>	<input checked="" type="checkbox"/> Portable (<20cm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
<b>Exposure classification</b>	<input type="checkbox"/> Occupational/Controlled exposure ( $S = 5\text{mW/cm}^2$ ) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure ( $S=1\text{mW/cm}^2$ )
<b>Antenna diversity</b>	<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
<b>Max. output power</b>	-1.57dBm (0.000697W)
<b>Antenna gain (Max)</b>	-6.93 dBi
<b>Evaluation applied</b>	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation

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**SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq$  50 mm**

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$   
 $f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $<$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

## For 2.4G Measurement Data

Operating Mode	Frequency	Field strength	EIRP	Max tune-up	Antenna Gain	Antenna Gain	min. test separation distance	Result	Limit
	(MHz)	(dBuV/m @3)	(dBm)	(mW)	(dBi)	(linear)	(mm)		
GFSK	2402	93.59	-1.57	0.697	-6.93	0.20	5	0.2264	3
	2444	89.68	-5.48	0.283	-6.93	0.20	5	0.0928	3
	2476	85.70	-9.46	0.113	-6.93	0.20	5	0.0374	3

$$\text{EIRP} = \text{E}_{\text{Meas}} + 20 \log(\text{d}_{\text{Meas}}) - 104.7$$

EIRP is the equivalent isotropically radiated power, in dBm

$\text{E}_{\text{Meas}}$  is the field strength of the emission at the measurement distance, in dBuV/m

$\text{d}_{\text{Meas}}$  is the measurement distance, in m

**Conclusion: No SAR is required.**