RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	dual band wireless adapter
Model Name	5B06
FCC ID	2AKC6XHT-WF5E

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Where f(GHz) is the RF channel transmit frequency in GHz

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

3. CALCULATION

According to the follow transmitter output power (P_t) formula : P_t = ($E \times d$) 2 / ($30 \times g_t$) P_t =transmitter output power in watts g_t =numeric gain of the transmitting antenna (unitess) E=electric field strength in V/m

d=measurement distance in meters (m)

For 2.4G Band

P_t=8.15mW

The result for RF exposure evaluation SAR= $(8.15 \text{mW} /5 \text{mm}) . [\sqrt{2.462} (\text{GHz})] = 2.56 < 3.0 \text{ for } 1-\text{g SAR}$

For 5G Band

Pt=3.48mW

The result for RF exposure evaluation SAR=(3.48mW /5mm) .[$\sqrt{5.825}$ (GHz)]= 1.68<3.0 for 1-g SAR

The device cannot transmit in different band simultaneously.

4. CONCLUSION

The SAR evaluation is not required.