## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	Wireless USB Adapter
Model Name	6B22, 6B21
FCC ID	2AKC6XHT-WF2D

### 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  $\le 7.5$  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

2.4G WIFI:

Pt=6.49dBm=4.46mW

The value of the Maximum output power Pt is referred to the test report of the CFR47

§15.247.

The result for RF exposure evaluation SAR= $(4.46\text{mW} / 5\text{mm}) \cdot [\sqrt{2.462}(\text{GHz})] = 1.40 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

5G WIFI:

§15.247.

P<sub>t</sub>=8.15dBm=6.53mW

The value of the Maximum output power Pt is referred to the test report of the CFR47

The result for RF exposure evaluation SAR=(6.53mW /5mm) .[ $\sqrt{5}$ .180(GHz)]= 2.98<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

The 2.4GHz WIFI band and 5GHz band cannot transmit simultaneously.

### 4. CONCLUSION

The SAR evaluation is not required.