

## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	ANNA-B4
Model Name	ANNA-B402
Series Model	ANNA-B412
FCC ID	XPYANNAB4

#### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

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:

[(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

#### BLE 1M:

Pt=6.844dBm=4.83mW

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= $(4.83\text{mW} / 5\text{mm}).[\sqrt{2.480\text{GHz}}]=1.52<3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

### BLE 2M:

P+=6.829dBm=4.81mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR= $(4.81 \text{mW} / 5 \text{mm}).[\sqrt{2.480 \text{GHz}}]=1.51<3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

#### 2 4G

P<sub>t</sub>=7.333dBm=5.41mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR= $(5.41 \text{mW} / 5 \text{mm}).[\sqrt{2.480 \text{GHz}}]=1.70<3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

### O-QPSK:

Pt=7.335dBm=5.41mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR= $(5.41 \text{mW} / 5 \text{mm}).[\sqrt{2.475 \text{GHz}}]=1.70<3.0$  for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

# 4. CONCLUSION

The SAR evaluation is not required.

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