

# RF EXPOSURE EVALUATION

## 1. PRODUCT INFORMATION

Product Description	USB WiFi Bluetooth Adapter
Model Name	EP-N8568, EP-N8567
FCC ID	2AZDM-WIFIBT

### 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 ≤ 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

BT (BLE):

Pt=2.993dBm=1.99mW

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=(1.99mW /5mm) .[ $\sqrt{2.402}$ (GHz)]= 0.62<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

2.4G WIFI:

Pt=8.79dBm=7.57mW

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=(7.57mW / 5mm) .[ $\sqrt{2.412}(\text{GHz})$ ]= 2.35<3.0 for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

#### Note:

- 1. Only the worst case recorded.
- 2. The BT and 2.4GHz WIFI band can transmit simultaneously: 0.62+2.35=2.97<3.0

# 4. CONCLUSION

The SAR evaluation is not required.

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