**RF** Exposure evaluation

Product Description: ACTIVE NOISE CANCELLATION BLUETOOTH HEADPHONE Model Number: ANC-CLF01 FCC ID: 2AQQP-F01

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  $\leq$  50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \leq$  3.0 for 1-g SAR and  $\leq$  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

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According to the follow transmitter output power (Pt) formula:
Pt= (E x d) 2/ (30 x gt)
Pt=transmitter output power in watts
gt=numeric gain of the transmitting antenna (unitess)
E=electric field strength in V/m
d=measurement distance in meters (m)
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According to the formula described above:

Emax=<u>98.52</u>dBuv/m=<u>0.084</u>V/m, d=3m, g<sub>t</sub>=1.58

 $P_{t}$ = ( E x d ) <sup>2</sup>/ ( 30 x g<sub>t</sub> ) =(0.084x3)<sup>2</sup>/ (30x1.58)=0.0013397W=1.34mW

The result is rounded to one decimal place for comparison Worse case is as below: [2480MHz -**1.34**mW output power] (1.34mW / 5mm)\*[ $\sqrt{2.480}$ (GHz)] = <u>0.42</u> < 3.0 for 1 - g SAR Then SAR evaluation is not required

**NOTE:** For the maximum power, you can refer FCC test report.