

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Truly Wireless Earbuds
Model Name	One
FCC ID	2A3WX-ONE

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:

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

Where $f(\text{GHz})$ is the RF channel transmit frequency in GHz

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

3. CALCULATION

BR/EDR:

$$P_t = 5.301 \text{ dBm} = 3.39 \text{ mW}$$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (3.39 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.441 \text{ GHz}}] = 1.06 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE 1M:

$$P_t = 4.527 \text{ dBm} = 2.83 \text{ mW}$$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (2.83 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.440 \text{ GHz}}] = 0.88 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE 2M:

$$P_t = 4.507 \text{ dBm} = 2.82 \text{ mW}$$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (2.82 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.440 \text{ GHz}}] = 0.88 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: <http://cn.agc-cert.com/>

