### RF Exposure

Test Requirement: FCC 47CFR 15.247(i)

FCC ID: 2BCOX-6793
Test Date: 2023-08-11
Mode of Operation: BT Tx mode

#### **Requirements:**

In 15.247(i), an equipment shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the limits in §§ 1.1307.

Applications to the Commission for construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities must contain a statement confirming compliance with the limits unless the facility, operation, or transmitter is categorically excluded, as discussed below. Technical information showing the basis for this statement must be submitted to the Commission upon request.

According to KDB447498 D04 General RF Exposure Guidance v01, Appendix B B.2 Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1mW, regardless of separation distance.

According to KDB447498 D04 General RF Exposure Guidance v01, Appendix B Exemptions for Single RF Sources, B.3 MPE-based Exemption

### **B.3 MPE-based Exemption**

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

RF Source Frequency			Minimum Distance			Threshold ERP
∫ <sub>L</sub> MHz		∱ <sub>H</sub> MHz	$\lambda_{L} / 2\pi$		$\lambda_{\rm H}$ / $2\pi$	W
0.3	-	1.34	159 m	_	35.6 m	1,920 R <sup>2</sup>
1.34	-	30	35.6 m	_	1.6 m	3,450 R <sup>2</sup> /f <sup>2</sup>
30	-	300	1.6 m	_	159 mm	3.83 R <sup>2</sup>
300	_	1,500	159 mm	_	31.8 mm	0.0128 R <sup>2</sup> f
1,500	_	100,00	31.8 mm	_	0.5 mm	19.2R <sup>2</sup>

Subscripts L and H are low and high;  $\lambda$  is wavelength.

From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.

# **Test Result of BT Tx mode(DTS): PASS**

# **RF Exposure Evaluation**

The Maximum ERP = 1.803 mW (at frequency = 2.480 GHz) (ERP=EIRP-2.15=2.559 dBm) SAR Test Exclusion Thresholds=768 mW, The test separation distance is 20 cm