

TEST REPORT

Product Name : BRP Bluetooth System Audio
Model Number : 219401296
FCC ID : 2AAOY-219401296

Prepared for : Mitek Corp
Address : 4545 E Baseline Rd Phoenix, AZ 85042 United States

Prepared by : EMTEK (DONGGUAN) CO., LTD.
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Date of sample receipt : August 18, 2026
Date(s) of Tests : August 18, 2026 to August 28, 2026
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1. TEST RESULT CERTIFICATION

Applicant : Mitek Corp
 Address : 4545 E Baseline Rd Phoenix, AZ 85042 United States
 Manufacturer : Mitek Corp
 Address : 4545 E Baseline Rd Phoenix, AZ 85042 United States
 EUT : BRP Bluetooth System Audio
 Model Name : 219401296
 Trademark : BRP

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1091	PASS

The above equipment was tested by EMTEK (DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2020) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1091.

The test results of this report relate only to the tested sample identified in this report

Date of Test : August 18, 2026 to August 28, 2026

Prepared by :

Jessica Zhang
 Jessica Zhang /Editor

Reviewer :

Warren Deng
 Warren Deng /Supervisor

Approve & Authorized Signer :

Sam Lv
 Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2605070335E00102R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	BRP Bluetooth System Audio
Model Number:	219401296
Sample:	1#
Data Rate:	1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation
Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	79 channels
Transmit Power Max:	0.55 dBm(0.001135 W)
Antenna Gain:	3.51 dBi
Power supply:	DC 12V from storage battery
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab.	: Accredited by CNAS, 2026.08.12 The certificate is valid until 2030.07.05 The Laboratory has been assessed and proved to be in compliance with CNAS/CL01:2018 The Certificate Registration Number is L3150 Accredited by FCC Designation Number: CN1451 Test Firm Registration Number: 846861 Accredited by A2LA, The Certificate Registration Number is 4321.02 Accredited by Industry Canada The Certificate Registration Number is CN0113
Name of Firm	: EMTEK (DONGGUAN) CO., LTD.
Site Location	: 1&2/F., Building 2, Zone A, Zhongda Marine Biotechnology Research and Development Base, No.9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong, China

3. Test Requirement

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} \cdot G) \backslash (4 \cdot \pi \cdot R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

R = distance between observation point and center of the radiator in cm

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the nd total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

4. Measurement Result

Antenna gain:3.51 dBi

gain:	3.51	FCC MPE						
Mode	Frequency (MHz)	Output Power(dBm)	E.I.R.P(dBm)	Target Power W/tolerance (dBm)	Max tune up power(dBm) tolerance	Max tuneup power(mW) tolerance	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)
GFSK	2402	-0.68	2.83	8±1	3	2.00	0.000891	1
	2441	-1.4	2.11	9±1	3	2.00	0.000891	1
	2480	-0.44	3.07	6±1	4	2.51	0.001121	1
pi/4-DQPSK	2402	0.05	3.56	7±1	4	2.51	0.001121	1
	2441	-0.63	2.88	5±1	3	2.00	0.000891	1
	2480	0.29	3.8	6±1	4	2.51	0.001121	1
8-DPSK	2402	0.4	3.91	-1±1	4	2.51	0.001121	1
	2441	-0.43	3.08	-1±1	4	2.51	0.001121	1
	2480	0.55	4.06	-2±1	5	3.16	0.001412	1

According to KDB 447498 D01 V06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***