

TEST REPORT

Product Name : Wireless Transmitter with Backseat Charging Hub
Model Number : GRFCC2001-BLK-STK-6, GRFCC2001-BLK-T10-6,
GRFCC2001-BLK, GRFCC2001, EAA2-250080A,
GRFCC2001-WHT-6, GRFCC2001-WHT-T10-6,
GRFCC2001-WHT
FCC ID : 2A3ZO-250080A

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Report Number : EDG2503030170E00203R
Date of sample receipt : Mar 03, 2025
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1. TEST RESULT CERTIFICATION

Applicant : Hong Kong Etech Groups Ltd.
Address : 16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang, Baoan, Shenzhen, China
Manufacturer : Dongguan Qiaosike Digital Technology CO.,Ltd
Address : Room 401, Building 6, No. 2 Hongjin Road, Hongmei Town, Dongguan City, Guangdong Province
EUT : Wireless Transmitter with Backseat Charging Hub
Model Name : GRFCC2001-BLK-STK-6, GRFCC2001-BLK-T10-6, GRFCC2001-BLK, GRFCC2001, EAA2-250080A, GRFCC2001-WHT-6, GRFCC2001-WHT-T10-6, GRFCC2001-WHT
Trademark : N/A

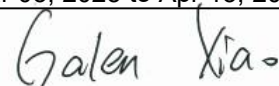
Measurement Procedure Used:

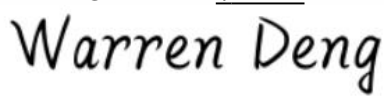
APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1093	PASS

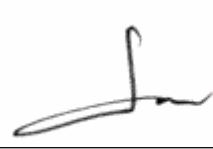
The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

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

Date of Test : Mar 03, 2025 to Apr 13, 2025

Prepared by : 
Galen Xiao /Editor

Reviewer : 
Warren Deng /Supervisor

Approve & Authorized Signer :  
Sam Lv /Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2503030170E00203R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	Wireless Transmitter with Backseat Charging Hub
Model Number:	GRFCC2001-BLK-STK-6, GRFCC2001-BLK-T10-6, GRFCC2001-BLK, GRFCC2001, EAA2-250080A, GRFCC2001-WHT-6, GRFCC2001-WHT-T10-6, GRFCC2001-WHT (Note: These models are the same, except for the model numbers and colors;GRFCC2001-BLK-STK-6 was selected for full test.)
Sample:	2#
Device Type:	BT/BLE
Data Rate:	1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation 1Mbps for GFSK modulation
Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	BT: 79 channels BLE:40 channels
Transmit Power Max:	BT:0.93 dBm(0.001239 W) BLE:-1.44 dBm(0.000718 W)
Antenna Type:	PCB Antenna
Antenna Gain:	-0.68 dBi
Power supply:	DC 12-24V Front USB-A Output: 5V/3.1A Front USB-C Output: 5V/3.1A Rear USB Output: 5V/3.1A Rear USB-C Output: 5V/3.1A
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

3. Test Requirement:

SAR Evaluation

According to 447498 D01 V06, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

Antenna gain:-0.68 dBi

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune up Power (dBm)	Max tune up power (dBm)	Calculation Result	Calculation threshold(1-g SAR)
2402	GFSK	-1.30	-1±1	0	0.3100	3
2441	GFSK	-3.01	-3±1	-2	0.1972	3
2480	GFSK	-3.83	-3±1	-2	0.1987	3
2402	Π/4-DQPSK	0.59	0±1	1	0.3902	3
2441	Π/4-DQPSK	-1.13	-1±1	0	0.3125	3
2480	Π/4-DQPSK	-2.06	-2±1	-1	0.2502	3
2402	8DPSK	0.93	1±1	2	0.4913	3
2441	8DPSK	-0.77	0±1	1	0.3934	3
2480	8DPSK	-1.53	-1±1	0	0.3150	3
2402	GFSK	-1.44	-1±1	0	0.3100	3
2440	GFSK	-2.86	-2±1	-1	0.2482	3
2480	GFSK	-3.90	-3±1	-2	0.1987	3

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

*** End of Report ***