



RF Exposure Evaluation Declaration

Report No.: S202312118689E16 Issue Date: 01-19-2024

Applicant: BDStar Intelligent & Connected Vehicle Technology Co.,Ltd. **Address:** No. 2, Building 81, Tonggui Avenue, Yufengshan Town, Yubei

District, Chongging P.R. China

FCC ID: 2BAQL-CFDLMMI008

Product: Motorcycle Media Players

Model No.: CFDLMMI008

Trade Mark: /

FCC Rule Part(s): CFR 47, FCC Part 2.1091 Radio frequency radiation exposure

evaluation: mobile devices.

Item Receipt date: Nov 28, 2023

Test Date: Dec 12~Dec 25, 2023

Compiled By

(Chuang Li) Senion Test Engineer

Approved By

(Line Chen)

Engineer Manag

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of Fangguang Inspection & Testing Co., Ltd. Wuxi Branch

The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Report No.: S202312118689E16



Revision History

Report No.	Version	Description	Issue Date	
S202312118689E16	Rev. 01	1	01-19-2024	



1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name:	Motorcycle Media	Motorcycle Media Players								
Model Name:	CFDLMMI008									
Additional Model:	CFDLMMI009,CFDLMMI010,CFDLMMI011,CFDLMMI012,CFDLMMI013,									
Additional woder.	CFDLMMI014	CFDLMMI014								
	They are have the	same tec	hnical const	truction includ	ling circuit	diagra	m, PCB			
	LAYOUT, hardware version and software version identical. the difference									
	refer the below ta	ble.								
	Model	Size	RG440:	BE470:BT	FM/AM	GP	USB			
			Wifi+BT	BE470:B1	FIVI/AIVI	S	USB			
	CFDLMMI008	8"	√	√	√	√	√			
Model Description:	CFDLMMI009	8"	√	√	×	√	√			
	CFDLMMI010	8"	√	√	√	×	√			
	CFDLMMI011	8"	√	√	√	√	×			
	CFDLMMI012	8"	√	√	×	×	√			
	CFDLMMI013	8"	√	√	√	×	×			
	CFDLMMI014 8" √ √ × √						X			
Trade Mark:	/									
Input Voltage Range:	DC 13.5V									



1.2. Product Specification Subjective to this Report

Frequency Range:	Bluetooth: 2400 ~ 2483.5MHz
	802.11a/n/ac-HT20: 5180 ~ 5320MHz, 5470 ~ 5725MHz,5745 ~ 5825MHz
	802.11n/ac-HT40: 5190 ~ 5310MHz, 5510 ~ 5670MHz,5755 ~ 5795MHz
	802.11ac-HT80: 5210MHz~5290MHz, 5530~5610MHz,5775MHz
	Bluetooth: GFSK, π /4-DQPSK,8-DPSK
Type of Modulation:	802.11a/n/ac:
	CCK/OFDM/BPSK/QPSK/DBPSK/DQPSK/16QAM/64QAM/256QAM
Data Rate:	BLE:1Mbps
	BT:1Mbps(GFSK), 2Mbps(Π/4 DQPSK), 3Mbps (8DPSK)
	802.11a: 6/9/12/18/24/36/48/54Mbps
	802.11n: up to 150Mbps
	802.11ac: up to 433.3Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	BT:RG440:1.5dBi,BE470:2.7dBi
	WIFI:5GHz:3.8dBi



2. RF Exposure Evaluation

2.1. Limits

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	Electric Field	Magnetic Field	Power Density	Average Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500			f/1500	6
1500-100,000			1	30

f= Frequency in MHz

Calculation Formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

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



2.2. Test Result of RF Exposure Evaluation

Product	Motorcycle Media Players
Test Item	RF Exposure Evaluation

For module GOC-RG440:

	Eroguopey	Maximum Conducted	Antenna PG	enna PG		MPE	MPE
Mode	Frequency (MHz)	OutputPower (dBm)	Gain (dBi)	(dBm)	(mW)	(mW/cm ²)	Limits (mW/cm²)
U-NII	5260	14.98	3.8	18.78	75.5	0.015	1.00
BT	2441	4.57	1.5	6.07	4.0	0.0008	1.00
BLE	2480	3.28	1.5	4.78	3.0	0.0006	1.00

For module GOC-BE470:

	Frequency	Maximum Conducted	Antenna	PG		MPE	MPE
Mode	(MHz)	OutputPower (dBm)	Gain (dBi)	(dBm)	(mW)	(mW/cm ²)	Limits (mW/cm ²)
ВТ	2441	4.59	2.7	7.29	5.4	0.001	1.00
BLE	2402	6.98	2.7	9.68	9.3	0.002	1.00

Remark: 1. MPE use distance is 20cm from manufacturer declaration of user manual.

Remark: 2.Use the maximum gain of all bands when evaluating

Remark: 3.BT and 5G wifi can't transmit simultaneously.

CONCULISON:

The Max Power Density at R (20 cm) = 0.015mW/cm² < 1mW/cm².

So the EUT complies with the requirement.

The End
