



RF EXPOSURE REPORT

Applicant	:	DONGGUAN LEPIN ELECTRONIC PLASTIC CO.,LTD
Address of Applicant	:	Building B, Tanghuanling Industrial Zone, Chashan Village, Chashan Town, Dongguan, Guangdong, China
Manufacturer	:	DONGGUAN LEPIN ELECTRONIC PLASTIC CO.,LTD
Address of Manufacturer	:	Building B, Tanghuanling Industrial Zone, Chashan Village, Chashan Town, Dongguan, Guangdong, China
Equipment under Test	:	PORTABLE CD PLAYER WITH CASSETTE RECORDER
Model No.	:	CD-2012, PCD-2012, PCD-2002, LP-2012, LP-2002, CD-20XX-XXXX (XX-XXXX can be replaced by letter from “A” to “Z” number from “0” to “9” or blank)
FCC ID	:	2A22R-LP2012
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06
Report No.	:	DDT-RE24062514-1E02
Issue Date	:	2024/11/21
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Address of Manufacturer	:	Building B, Tanghuanling Industrial Zone, Chashan Village, Chashan Town, Dongguan, Guangdong, China

Test Standard Used:

KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE24062514-1E02		
Date of Receipt:	2024/7/9	Date of Test:	2024/8/30 - 2024/11/15

Prepared By:**Jacky Huang/Engineer****Approved By:****Damon Hu/EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/11/21	

1. General Test Information

1.1. Description of EUT

EUT Name	: PORTABLE CD PLAYER WITH CASSETTE RECORDER
Model Number	: CD-2012, PCD-2012, PCD-2002, LP-2012, LP-2002, CD-20XX-XXXX (XX-XXXX can be replaced by letter from "A" to "Z" number from "0" to "9" or blank)
Difference of model number	: All the models are electrical identical including the same hardware design (i.e., circuit design, PCB Layout, RF module/circuit, antenna type(s) and antenna location, components on PCB, etc.), same mechanical structure, the difference are the model number, the color and material of appearance (wood or plastic).
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 18V from adapter
Antenna Type	: PIFA antenna
Max Antenna Gain (dBi)	: 2.499
Radio Specification	: Bluetooth BR/EDR
Operation Frequency	: 2402 MHz-2480 MHz
Modulation	: GFSK, $\pi/4$ -DQPSK

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
AC adaptor	Shenzhen Guijin Technology Co., Ltd.	AK18WG-0900200U	Output: 9V/2A

1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure evaluation for FCC

2.1. Assessment procedure

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 ≤ 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, 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

The result is rounded to one decimal place for comparison

2.2. Assess result

Manufacturing Tolerance:

Mode	Antenna	Frequency [MHz]	Target (dBm)	Tolerance $\pm$ (dB)
GFSK (Peak)	Ant1	2402	0.55	1
		2441	1.93	1
		2480	1.54	1
$\pi/4$ -DQPSK (Peak)	Ant1	2402	1.38	1
		2441	2.44	1
		2480	2.10	1

Estimation Result:

Worse case is as below: [2441 MHz, 3.44 dBm, (2.21 mW) output power]

$(2.21/5) \cdot [\sqrt{2.441(\text{GHz})}] = 0.691 < 3.0$ for 1-g SAR

Then SAR evaluation is not required.

-----End Report-----