

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

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Telephone: +86-755-26648640 Fax: +86-755-26648637

Website: www.cqa-cert.com

RF Exposure Evaluation Report

Report No.: CQASZ20230500745E-02

Applicant: Shenzhen Nito Power Source Technology Co., Ltd.

Address of Applicant: 201, No. 8 Building, No. 49 WuheNan Rd., Jinfanghua Electricity industrial

Park, Bantian St., Longgang District, Shenzhen

Equipment Under Test (EUT):

EUT Name: Car Wireless FM Transmitter

Model No.: JR-CCB01

Test Model No.: JR-CCB01

Brand Name: JOYROOM

FCC ID: 2BA8X-JR-CCB01 Standards: 47 CFR Part 1.1307 47 CFR Part 1.1310

447498 D04 Interim General RF Exposure Guidance v01

Date of Receipt: 2023-5-9

Date of Test: 2023-5-9 to 2023-5-30

Date of Issue: 2023-6-7
Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above

lewis 2h0u
Tested By:

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By:



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date	
CQASZ20230500745E-02	Rev.01	Initial report	2023-6-7	





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3 General Information

3.1 Client Information

Applicant:	Shenzhen Nito Power Source Technology Co., Ltd.
Address of Applicant:	201, No. 8 Building, No. 49 WuheNan Rd., Jinfanghua Electricity industrial Park, Bantian St., Longgang District, Shenzhen
Manufacturer:	Shenzhen Nito Power Source Technology Co., Ltd.
Address of Manufacturer:	201, No. 8 Building, No. 49 WuheNan Rd., Jinfanghua Electricity industrial Park, Bantian St., Longgang District, Shenzhen
Factory:	Dongguan Deruichen Electronics Co., Ltd.
Address of Factory:	Deruichen Industrial Park,Wuxing Road,Changping Town,Dongguan,Guangdong,China

3.2 General Description of EUT

Product Name:	Car Wireless FM Transmitter
Model No.:	JR-CCB01
Test Model No.:	JR-CCB01
Trade Mark:	JOYROOM
Software Version:	V1.0
Hardware Version:	V.0
EUT Power Supply:	Charge by DC 12V

3.3 General Description of BT Classic

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.3
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	
Antenna Type:	PCB antenna
Antenna Gain:	2.12dBi

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.



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4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP20cm inFormula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{\text{th }}(\text{mW}) = ERP_{20 \text{ cm }}(\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of λ /4 or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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4.1.3 EUT RF Exposure

1) For BT Classic

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

Wicasarciniciti Bata						
GFSK mode						
Test channel	EIRP	ERP	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	0.44	-1.71	-1.5±1	-0.5	0.89	
Middle(2441MHz)	1.79	-0.36	-0.5±1	0.5	1.12	
Highest(2480MHz)	0.88	-1.27	-1.5±1	-0.5	0.89	
π/4DQPSK mode						
Test channel	EIRP	ERP	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	0.86	-1.29	-1.5±1	-0.5	0.89	
Middle(2441MHz)	2.33	0.18	0.5±1	1.5	1.41	
Highest(2480MHz)	1.21	-0.94	-1.0±1	0	1.00	

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20230500745E-01 for EUT test Max Conducted Peak Output Power value.

2) EUT's module is more than 20cm away from the human body.

*** END OF REPORT ***