

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

RF Exposure MPE

CTA25071801603 Report Reference No.....

FCC ID.....:: **2BEMR-C39**

Compiled by

(position+printed name+signature)..: File administrators Zoey Cao

Supervised by

(position+printed name+signature)..: Project Engineer Ace Chai

(position+printed name+signature)..: RF Manager Eric Wang

Date of issue..... Jul. 30, 2025

Shenzhen CTA Testing Technology Co., Ltd. Testing Laboratory Name:

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,

Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name.....: Shenzhen Baiyin Technology Co., LTD

8th Floor, No 2 Building, Baoyunda Logistics Center, Bao'an District, Address.....:

Shenzhen, China

47CFR §1.1310

47CFR §2.1091

KDB447498 D01 General RF Exposure Guidance v06

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Test item description: Car Bluetooth Charger

Trade Mark N/A

Manufacturer: Shenzhen Baiyin Technology Co., LTD

Model/Type reference: Listed Models N/A

Ratings: Input: 12-24V=== 2.0A

> PD Output: 5V===2.4A USB 1 Output: 5V==3.1A USB 2 Output: 5V==3.1A

PD output + USB1 output + USB 2 output: 5V===3.1A

PASS

Shenzhen CTA Testing Technology Co., Ltd.



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TEST REPORT

Equipment under Test : Car Bluetooth Charger

Model /Type : C39

Listed Models : N/A

Applicant : Shenzhen Baiyin Technology Co., LTD

Address 8th Floor, No 2 Building, Baoyunda Logistics Center, Bao'an District,

Shenzhen, China

Manufacturer : Shenzhen Baiyin Technology Co., LTD

Address : 8th Floor, No 2 Building, Baoyunda Logistics Center, Bao'an District,

Shenzhen, China

Test Result: PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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TEST STANDARDS

The tests were performed according to following standards:

ANSI C95.1-1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

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SUMMARY

2.1 **General Remarks**

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Date of receipt of test sample	. <	Jun. 25 2025		ING
	C,			CTIN
Testing commenced on	:	Jun. 25 2025		TES
C unit			C	
Testing concluded on	:	Jul. 30, 2025	CAN	

2.2 Product Description

Product Name: Car Bluetooth Charger Model/Type reference: C39 Input: 12-24V=== 2.0A PD Output: 5V==3.1A USB 1 Output: 5V==3.1A USB 2 Output: 5V==3.1A PD output + USB1 output +USB 2 output: 5V==3.1A PD output + USB1 output +USB 2 output: 5V==3.1A PD output + USB1 output +USB 2 output: 5V==3.1A PD output + USB1 output +USB 2 output: 5V==3.1A PD output + USB1 output +USB 2 output: 5V==3.1A PD output + USB1 output +USB 2 output: 5V==3.1A PD output + USB 2 output: 5V==3.1A PD output	.2 Product Descript	tion
Model/Type reference: C39 Input: 12-24V=== 2.0A PD Output: 5V==3.1A USB 1 Output: 5V==3.1A USB 2 Output: 5V==3.1A USB 2 Output: 5V==3.1A USB 2 output: 5V==3.1A PD output + USB 1 output + USB 2 output: 5V==3.1A Hardware version: V1.0 Testing sample ID: CTA250718016-1# (Engineer sample) CTA250718016-2# (Normal sample) Bluetooth: Supported Type: Bluetooth BR/EDR Modulation: GFSK, π/4DQPSK Operation frequency: 2402MHz~2480MHz Channel number: 79 Channel separation: 1MHz Antenna type: PCB Antenna Antenna gain: -0.58 dBi FM Modulation: FM Operation frequency: 88.1MHz~107.9MHz Channel number: 199 Channel separation: 100KHz Channel frequency 88.1MHz~107.9MHz(Channel Number: 199, Channel Frequency=88.1+0.1(K-1), K=1, 2, 3199) Antenna type: Spring antenna		
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Channel separation: Antenna type: PCB Antenna Antenna gain: -0.58 dBi FM Modulation: FM Operation frequency: Channel number: 199 Channel separation: Channel frequency 88.1MHz~107.9MHz Channel frequency 88.1MHz~107.9MHz(Channel Number: 199, Channel Frequency=88.1+0.1(K-1), K=1, 2, 3199) Antenna type: Spring antenna	Operation frequency:	2402MHz~2480MHz
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Modulation: FM Operation frequency: 88.1MHz~107.9MHz Channel number: 199 Channel separation: 100KHz Channel frequency 88.1MHz~107.9MHz(Channel Number: 199, Channel Frequency=88.1+0.1(K-1), K=1, 2, 3199) Antenna type: Spring antenna	Antenna type:	PCB Antenna
Modulation: FM Operation frequency: 88.1MHz~107.9MHz Channel number: 199 Channel separation: 100KHz Channel frequency 88.1MHz~107.9MHz(Channel Number: 199, Channel Frequency=88.1+0.1(K-1), K=1, 2, 3199) Antenna type: Spring antenna	Antenna gain:	-0.58 dBi
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Channel Frequency=88.1+0.1(K-1), K=1, 2, 3199) Antenna type: Spring antenna	Channel separation:	100KHz
	Channel frequency	
	Antenna type:	Spring antenna
Antenna gain: 0.00 dBi	Antenna gain:	0.00 dBi

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Special Accessories

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
1	1		1	173	1
	fications ons were imple	mented to meet t	testing criteria.		

Modifications

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3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Baoʻan District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd.:

	Test	Range	Measurement Uncertainty	Notes	
	Radiated Emission	9KHz~30MHz	3.02 dB	(1)	
	Radiated Emission	30~1000MHz	4.06 dB	(1)	
	Radiated Emission	1~18GHz	5.14 dB	(1)	
	Radiated Emission	18-40GHz	5.38 dB	(1)	ING
	Conducted Disturbance	0.15~30MHz	2.14 dB	(1)	STIN
	Output Peak power	30MHz~18GHz	0.55 dB	(1)	LE-
	Power spectral density	/	0.57 dB	(1)	
	Spectrum bandwidth	/	1.1%	(1)	
	Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)	
	Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)	
P	Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)	
	Time	TEO	±2%	(1)	
	GIN CITY	(F	TEST		

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Test limit

4.1 Requirement

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

	Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
		Limits for Occ	upational/Control	led Exposure	
3	0.3 - 3.0 3.0 - 30 30 - 300 300 - 1500 1500 - 100,000	614 1842/f 61.4 /	1.63 4.89/f 0.163 /	(100) * (900/f ²)* 1.0 f/300 5	6 6 6 6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Limits for Maximu	ım Permissible Ex	kposure (IVIPE)/Ur	ncontrolled Expos	ure	
Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)	STING
	Limits for Occ	upational/Control	led Exposure	Carl C	
0.3 - 3.0 3.0 - 30 30 - 300 300 - 1500 1500 - 100,000	614 824/f 27.5 /	1.63 2.19/f 0.073 /	(100) * (180/f ²)* 0.2 f/1500 1.0	30 30 30 30 30 30	
F=frequency in MI *=Plane-wave equ		sity	CTATI	ESTING	
4.2 MPE Calc	ulation Method		CAN CIN		C.T

F=frequency in MHz

4.2 MPE Calculation Method

Predication of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

S=PG/4πR²

Where: S=power density P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator R=distance to the center of radiation of the antenna

4.3 Conducted Power Results

edistance to the center of radiation	on of the antenna						
4.3 Conducted Power Results							
Туре	Channel	Output power (dBm)					
	00	0.37					
GFSK	39	-0.22					
TESIN	78	-0.57					
r	00	-0.47					
π/4DQPSK	39	-0.99					
CIN	78	-1.34					

^{*=}Plane-wave equivalent power density

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CTATE

Fre (MH	•	Field strength(max)(dBuV/m)	EIRP (max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]
98.11	ИHz	55.90	-39.36	-39.5±1	-38.5
Note:		CVI		TES	
E =	EIRP – 20log I	O + 104.8		CTA	
where:					
		rength in dBμV/m,			

Note:

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

EIRP=E-104.8+20logD, D=3

Manufacturing tolerance

Mode	Max. Peak Conducted Output Power (dBm)	Max. tune-up
BR/EDR	0.37	0.0±1
FM	-39.36	-39.5±1

Standalone MPE Result

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, r = 20cm, as well as the gain of the used antenna is refer to section 2.2, the RF power density can be obtained.

	Output power		Antenna	Antenna	MPE	MPE
Modulation Type	dBm	mW	Gain	Gain	(mW/cm ²)	Limits
	ubili	IIIVV	(dBi)	(linear)	(IIIVV/CIII-)	(mW/cm ²)
BR/EDR	1.0	1.2589	-0.58	0.8750	0.0002	1.0000
FM	-38.5	0.0001	0.0	1.000	0.0000	0.0587

- 1. Output power (Peak) including turn-up tolerance;
- 2. MPE evaluate distance is 20cm from user manual provide by manufacturer.

Simultaneous Transmission for MPE Result

Contract of the Contract of th	BT MPE (Ratio)	FM MPE (Ratio)	simultaneous MPE (Ratio)	MPE Limits (Ratio)	TESTING
	0.0002	0.000	0.0002	1.0000	;\\\\\
				CAIR	

Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device Threshold per KDB 447498 D01v06

CTA TESTING