

	TEST REPOR	T				
FCC ID::	2BGEF-ACN1-T1B					
Test Report No::	TCT240508E028					
Date of issue::	Jun. 04, 2024					
Testing laboratory::	SHENZHEN TONGCE TESTING	G LAB				
Testing location/ address:		2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China				
Applicant's name:	ITT Cannon Electronics SZ Ltd.					
Address::	Tuopandun Industrial Area, Jind Town, Baoan District, Shenzhen					
Manufacturer's name:	ITT Cannon Electronics SZ Ltd.					
Address::	Tuopandun Industrial Area, Jinda Cheng, Xiner Village, Shajing Town, Baoan District, Shenzhen City, Guangdong, China					
Standard(s)::	FCC CFR Title 47 Part 1.1307					
Product Name::	NACS EV charger coupler					
Trade Mark:	ITT					
Model/Type reference :	ACN1-T1B-080-2BK-076A-1AP ACN1-T1B-048-2BK-076A-1AP ACN1-T1B-050-2BK-076A-1AP ACN1-T1B-XXX-2XX-XXXA-1AX (Model "X" base on ITT talk dog	I-XXX, I-XXX, KX-XXX				
Rating(s)::	DC 5V					
Date of receipt of test item	May 08, 2024					
Date (s) of performance of test:	May 08, 2024 ~ Jun. 04, 2024					
Tested by (+signature):	Aaron MO	Awon Magce				
Check by (+signature):	Beryl ZHAO	BOYCE TCT	TING			
Approved by (+signature):	Tomsin	Tomsie's				

General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name:	NACS EV charger coupler
Model/Type reference:	ACN1-T1B-080-2BK-076A-1AP1
Sample Number:	TCT240508E027-0101
Operation Frequency:	315MHz
Modulation Type:	FSK
Antenna Type:	PCB Antenna
Antenna Gain:	-1.75dBi
Rating(s):	DC 5V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	No. Model No.	
1	1 ACN1-T1B-080-2BK-076A-1AP1	
Other models	ACN1-T1B-048-2BK-076A-1AP1-XXX, ACN1-T1B-050-2BK-076A-1AP1-XXX, ACN1-T1B-XXX-2XX-XXXA-1AXX-XXX (Model "X" base on ITT talk dog optional item)	

Note: ACN1-T1B-080-2BK-076A-1AP1 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of ACN1-T1B-080-2BK-076A-1AP1 can represent the remaining models.





2. General Information

2.1. Test environment and mode

Item	Normal condition			
Temperature	+25°C			
Voltage	DC 5V			
Humidity	56%			
Atmospheric Pressure:	1008 mbar	ÇĆ		
Test Mode:				
Transmitting Mode:	Keep the EUT in continuous transmitting by sele	ect channel		

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1			1	1

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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3. Facilities and Accreditations

3.1. Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339





4. Test Results and Measurement Data

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1) The maximum output power for antenna is -31.13dBm (0.001mW) at 315MHz,

-1.75dBi antenna gain(with 0.67 numeric antenna gain.)

Note: E[dBµV/m]=68.80 computational formula

 $EIRP[dBm] = E[dB\mu V/m] + 20 log (d[m]) - 104.77;$

Conducted Power = EIRP-4.7;

Where E is the electric field strength in V/m; d is the measurement distance in meters (m)

2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

Calculation

Given

$$E = \sqrt{\frac{30 \times P \times G}{d}} \quad \& \quad S = \frac{E^2}{3770}$$

Where

E = Field Strength in Volts / meter

P = Power in Watts

G=Numeric antenna gain

d=Distance in meters

S=Power Density in milliwatts / square centimeter

Substituting the MPE safe distance using d=20cm into above equation.

Yields: S=0.000199*P*G

Mode	Power (dBm)	Power(mW)	numeric antenna gain	Power density (mW /cm²)	Limit (mW /cm²)	Result
SRD	-31.13	0.001	0.67	0.0000001	0.21	Pass

*****END OF REPORT****

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