



## RF Exposure Evaluation Report

**Report Reference No.**.....: **MTEB23100253-H**

**FCC ID**..... : **2A2RN-ACEVCN13P2I**

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**Representative Laboratory Name .:** **Shenzhen Most Technology Service Co., Ltd.**

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**Applicant's name**.....: **Xiamen Joint Tech. Co., Ltd**

Address .....: 98 Dongfu South Road, Haicang District, Xiamen City

**Test specification/ Standard** .....: **47 CFR Part 1.1307;47 CFR Part 1.1310**  
**KDB447498D01 General RF Exposure Guidance v06**

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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**Test item description** .....: Electric Vehicle AC Charger

Trade Mark .....: Joint

Model/Type reference.....: JNT-EVC10/80AC/01C/BK/RF/4G

Listed Models .....: JNT-EVC10/80AC/01C/YY/RF/ZZ

YY stands for colour;ZZ stands for Communication mode

Modulation Type.....: ASK

Operation Frequency.....: 13.56MHz

Hardware Version.....: N1-3P2

Software Version .....: N1-3P2\_C\_1

Rating .....: AC 240V/60Hz

Result.....: **PASS**

## TEST REPORT

Equipment under Test : Electric Vehicle AC Charger

Model /Type : JNT-EVC10/80AC/01C/BK/RF/4G

Listed Models : JNT-EVC10/80AC/01C/YY/RF/ZZ  
YY stands for colour;ZZ stands for Communication mode

Remark : Difference in Appearance and Power, YY may have SR= silver, BK= black; ZZ may be 4G for 4G+WIFI and WF for WIFI, and the color has nothing to do with the communication mode.

Applicant : **Xiamen Joint Tech. Co., Ltd**

Address : 98 Dongfu South Road, Haicang District, Xiamen City

Manufacturer : **Xiamen Joint Tech. Co., Ltd**

Address : 98 Dongfu South Road, Haicang District, Xiamen City

<b>Test Result:</b>	<b>PASS</b>
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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.

## 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2023-10-31	Initial Issue	Alisa Luo

## **2. SAR Evaluation**

### **2.1 RF Exposure Compliance Requirement**

#### **2.1.1 Standard Requirement**

According to KDB447498D01 General RF Exposure Guidance v06

##### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### **2.1.2 Limits**

For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C): 33

- 1) For test separation distances  $> 50$  mm and  $< 200$  mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances  $\leq 50$  mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.

When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any SAR test results below 100 MHz to be acceptable.34

**2.1.3 EUT RF Exposure**

$EIRP = PT * GT = (E \times D)^2 / 30$

where:

PT = transmitter output power in watts,

GT = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- $10^{(dB\mu V/m)/20} / 10^6$ ,

D = measurement distance in meters (m)---3m,

So  $PT = (E \times D)^2 / 30 / GT$

The worst case (refer to report **MTEB23100253-R**) is below:

Antenna polarization: Horizontal		
Frequency (MHz)	Level (dBuV/m)	Polarization
13.56	77.9	Peak

For 13.56MHz wireless:

Field strength=77.9 dBuV/m

Ant gain:3dBi;so Ant numeric gain=2

$EIRP = PT * GT = (E \times D)^2 / 30 = (10(dB\mu V/m)/20) / 106 * 3)^2 / 30 = 0.0000192$

So  $PT = EIRP / GT = 0.0000096W = 0.0096mW$

So  $(0.0096mW/5mm) * \sqrt{0.01356GHz} = 0.00022357$

exclusion=0.00022357 < 3.0 for 1-g SAR

So the SAR report is not required.

.....**THE END OF REPORT**.....