

## Shenzhen Most Technology Service Co., Ltd.

East A, 1 floor of New Aolin Factory building, Langshan Erlu, North District, Hi-tech Industry Park, Nanshan, Shenzhen, Guangdong, China

KDB447498D01 General RF Exposure Guidance v06

RF Exposure Evaluation Report					
Report Reference No	MTEB23100253-H				
FCC ID::	2A2RN-ACEVCN13P2I				
Compiled by ( position+printed name+signature):	File administrators Alisa Luo	Alisa Luo			
Supervised by ( position+printed name+signature):	Test Engineer Sunny Deng	Sunny Deng			
Approved by (position+printed name+signature):	Manager Yvette Zhou	futter			
Date of issue:	Oct.31,2023				
Representative Laboratory Name.:	Shenzhen Most Technology Ser	vice Co., Ltd.			
Address:	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.				
Applicant's name	Xiamen Joint Tech. Co., Ltd				
Address	98 Dongfu South Road, Haicang I	District, Xiamen City			

# Shenzhen Most Technology Service Co., Ltd. All rights reserved.

Test specification/ Standard ..........: 47 CFR Part 1.1307;47 CFR Part 1.1310

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

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Most Technology Service Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Most Technology Service Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

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

Report No.: MTEB23100253-H Page 2 of 5

# 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

Test Result:	PASS
	l l

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.

Report No.: MTEB23100253-H Page 3 of 5

# 1. Revision History

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

Report No.: MTEB23100253-H Page 4 of 5

# 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(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

Report No.: MTEB23100253-H Page 5 of 5

## 2.1.3 EUT RF Exposure

EIRP =PT\*GT= (E x 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 x 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)\*  $\sqrt{0.01356}$ GHz=0.00022357 exclusion=0.00022357<3.0 for 1-g SAR

So the SAR report is not required.

THE END OF REPORT	
-------------------	--