Shenzhen Most Technology Service Co., Ltd.
No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

RF Exposure Evaluation Report

Report Reference No..... :	**MTEB22120201-H**
FCC ID..... :	**2A2RN-ACEVCC880A**
Compiled by (position+printed name+signature).. :	File administrators Alisa Luo
Supervised by (position+printed name+signature).. :	Test Engineer Sunny Deng
Approved by (position+printed name+signature).. :	Manager Yvette Zhou
Date of issue..... :	**December 30, 2022**
Representative Laboratory Name. :	**Shenzhen Most Technology Service 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..... :	Building #1,No.268 HouXiang Rd,Xinyang, Industrial Park,Haicang District,XIAMEN,Fujian,China.
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.

Test item description.....:	Electric Vehicle AC Charging Station
Trade Mark..... :	Joint
Manufacturer..... :	**Xiamen Joint Tech. Co., Ltd**
Model/Type reference..... :	JNT-EVC10/80AC/01C/SR/RF/WF
Listed Models ..... :	JNT-EVCXX/80AC/01C/YY/ZZ XX denotes shell，can be 10=10 shell,11=11 shell,12=12shell,17=17shell,22=22shell YY denotes color,YY=Any two letters represent colors ZZ denotes function,can be RF=RFID,WF=WIFI,RF/WF=RFID+WIFI.
Modulation Type..... :	ASK
Operation Frequency..... :	13.56MHz
Hardware Version.....	JNT-C8-PR-80A-V2.0
Software Version.....	V49.12
Rating..... :	AC 120V/60Hz
Result..... :	**PASS**

T E S T R E P O R T

Equipment under Test	:	Electric Vehicle AC Charging Station
Model /Type	:	JNT-EVC10/80AC/01C/SR/RF/WF
Listed Models	:	JNT-EVCXX/80AC/01C/YY/ZZ XX denotes shell，can be 10=10 shell,11=11 shell,12=12shell,17=17shell,22=22shell YY denotes color,YY=Any two letters represent colors ZZ denotes function,can be RF=RFID,WF=WIFI,RF/WF=RFID+WIFI.
Remark		EUT is an electric vehicle AC charger with RFID function, supporting WIFI function, RF ID function or both, with wireless modular FCC ID:2AC7Z-ESPWROOM32D. Therefore, JNT-EVC10/80AC/01C/SR/RF/WF was chosen as the representative for testing
Applicant	:	**Xiamen Joint Tech. Co., Ltd**
Address	:	Building #1,No.268 HouXiang Rd,Xinyang, Industrial Park,Haicang District,XIAMEN,Fujian,China.
Manufacturer	:	**Xiamen Joint Tech. Co., Ltd**
Address	:	Building #1,No.268 HouXiang Rd,Xinyang, Industrial Park,Haicang District,XIAMEN,Fujian,China.

Test Result:	**PASS**

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2022-12.30	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(MHz))]
2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by ½
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

The worst case (refer to report **MTEB22120201-R**) is below:

Antenna polarization: Horizontal		
Frequency (MHz)	Level (dBuV/m)	Polarization
13.56	77.5	Peak

E=EIRP-20logd+104.8
E: is the electric field strength in dBuV/m
EIRP: is the equivalent isotropically radiated powerin dBm
d: is the specified measurement distance in m
d=3m
EIRP=77.5+20log3-104.8=-17.3dBm

13.56MHz< 30MHz, Add a 6DB maximum ground factor.
EIRP=-17.3dBm+6=-11.3dBm

The EIPR of the product is small enough, RF Exposure meets the requirements.

Contains FCCID:2AC7Z-ESPWROOM32D

Equation from KDB 447498 D01 General RF Exposure Guidance v07 is:
$S= PG / 4\Pi R2$
Where: S = power density (in appropriate units, e.g. mW/cm^2)
P = Time-average maximum tune up procedure (in appropriate units, e.g., mW)
G = the numeric gain of the antenna

R = distance to the center of radiation of the antenna (20 cm = limit for MPE)

Band	PG (mW)	Test Result (mW/cm2)	Limit Value (mW/cm2)	The MPE ratio
WiFi 2.4G	148.252	0.0295	1.000	0.0295

For transmitters, minimum separation distance is 20cm, even if calculations indicate MPE

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