



MPE Test Report

Report No.: VUE-18JA0517VTSPB-2

FCC ID: 2ANTN0003

Product: Smart Refrigerant Charging Machine

Model: NRC62i

Received Date: Mar.26, 2018

Test Date: Mar.26 to Apr.24, 2018

Issued Date: Apr.28, 2018

Applicant: Zhejiang VALUE Mechanical & Electrical Products CO.,LTD

Address: jiu-long Avenue, Western Industrial District, Wenling, Zhejiang, China

Manufacturer: Zhejiang VALUE Mechanical & Electrical Products CO.,LTD

Address: jiu-long Avenue, Western Industrial District, Wenling, Zhejiang, China

Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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Release Control Record

Issue No.	Description	Date Issued
VUE-18JA0517VTSPB-2	Original release	Apr.28, 2018



1 Certificate of Conformity

Product: Smart Refrigerant Charging Machine

Brand: --

Model: NRC62i

Applicant: Zhejiang VALUE Mechanical & Electrical Products CO.,LTD

Test Date: Mar.26 to Apr.24, 2018

Standards: FCC Part 2 (Section 2.1091)
KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : _____

Bing Ye

Date: _____

Apr.28, 2018

Bing YE

Testing Engineer

Approved by : _____

Joy zhu

Date: _____

Apr.28, 2018

Joy ZHU

Testing Manager

2 General Information

2.1 General Description of EUT

Product	Smart Refrigerant Charging Machine
Test Model	NRC62i
Model Difference	--
Power Rating	115V; 375W
Modulation Type	GFSK
Modulation Technology	Bluetooth Low Energy 4.1
Operating Frequency	2.402 ~ 2.480GHz
Number of Channel	40
Antenna Type	Onboard ceramic antenna
Antenna Connector	--
Antenna Gain	0.5 dBi

Note: For more details, please refer to the User's manual of the EUT.



3 Test Standards and Limits

3.1 Limits For FCC Radiofrequency radiation exposure:

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1,500	-	-	F/1500	30
1,500-100,000	-	-	1.0	30

F = Frequency in MHz

3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

3.3 MPE Calculation Formula

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as Mobile Device.



4 Measurement and Calculation

4.1 Maximum transmit power

The Power Data is based on the RF Test Report XKH-18MA1161VTSHPB-1

Frequency Band (MHz)	Conducted Output power (dBm)	Max Tune-up Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
BLE						
2402-2480	-2.88	-0.88	0.5	20	0.00018	1

Test Result: Pass

No SAR measurement is required.

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