



Test Report No.: FS150401N006

# RF EXPOSURE REPORT

Applicant	Jmatek Limited
Address	Suite 808A, Tower A, Manulife Financial Centre, 223-231 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Manufacturer or Supplier	KAIPING NEW WIDETECH ELECTRONIC CO. LTD.
Address	First building No. 40 Xing Da Road, Shuiko Town, Kaiping city, Guangdong, 529300 CHINA
Product	Portable air conditioner
Brand Name	Honeywell
Model	MN13CESWWF
Additional Model & Model Difference	MN10CESF, MN12CESF, MN10CESWWF, MN10CESBBF, MN12CESWWF, MN12CESBBF, MN13CESF, MN13CESBBF, MN13CHESF
Date of tests	Apr. 01, 2015 ~ Apr. 22, 2015

☒ FCC Part 2 (Section 2.1091)☒ KDB 447498 D03☒ IEEE C95.1**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**Tested by Heise Chen  
Project Engineer/ EMC DepartmentApproved by Chris Chen  
Assistant Manager / EMC Department

Date: Apr. 22, 2015

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS150401N006	Original release	Apr. 22, 2015

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## 1. CERTIFICATION

<b>FCC ID:</b>	2AFDNP01
<b>PRODUCT:</b>	Portable air conditioner
<b>BRAND NAME:</b>	Honeywell
<b>MODEL NO.:</b>	MN13CESWWF
<b>ADDITIONAL NO.:</b>	MN10CESF, MN12CESF, MN10CESWWF, MN10CESBBF, MN12CESWWF, MN12CESBBF, MN13CESF, MN13CESBBF, MN13CHESF
<b>TEST SAMPLE:</b>	Engineering Sample
<b>APPLICANT:</b>	Jmatek Limited
<b>TESTED DATE:</b>	Apr. 22, 2015
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1091)
	KDB 447498 D03
	IEEE C95.1

**NOTE:** Additional models (see above table) are identical with the test model MN13CESWWF except the identify by numerical and character, their meaning as below:

MN --- family model which same cabinet, electrical.

10/12/13—represents for BTC, e.g. 10 for 10000BTU, 12 for 12000BTU, 13 for 13000BTU.

CES—represents features cool, LED display.

WW—represents main unit in white color.

BB – represents main unit in Black color.

F– Wi-Fi version.

Remark: Without WW, BB means basic version in silver and black color.

## RF EXPOSURE LIMIT

### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

## 2. MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$R$  = distance between observation point and center of the radiator in cm

## 3. CLASSIFICATION

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



#### 4. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Total Gain (dBi)	Antenna Type
Chain 0	1.0	1.0	PCB Antenna

#### 5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2412-2462	137.721	1.0	20	0.0274	1.00

#### Conclusion

Therefore device complies with FCC's RF radiation exposure limits for general population in mobile exposure category (distance > 20cm)

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