

APPLICATION CERTIFICATION FCC Part 15C  
On Behalf of  
Guangdong Mixwell Technology Co., Ltd.

SMART WI-FI HUMIDIFIER

Model No.: MW3038, AN-H35S

FCC ID: 2AT8F-MW3038

Prepared for : Guangdong Mixwell Technology Co., Ltd.  
Address : 1-4#F, A building, No.7, Yu Hua Street, 138 Industrial  
Area, TangXia, DongGuan, China.

Prepared by : Shenzhen Accurate Technology Co., Ltd.  
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Report No. : RTZ200911020-RFA1-00  
Date of Test of Rev. 1 : Aug. 03, 2019--Aug. 12, 2019  
Date of Test of Rev. 2 : Sep. 20, 2020  
Date of Report of Rev. 1 : Aug. 13, 2019  
Date of Report of Rev. 2 : Sep. 21, 2020

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## Test Report Certification

Applicant : Guangdong Mixwell Technology Co., Ltd.  
Address : 1-4#F, A building, No.7, Yu Hua Street,138 Industrial Area,  
TangXia, DongGuan, China.  
Manufacturer : Guangdong Mixwell Technology Co., Ltd.  
Address : 1-4#F, A building, No.7, Yu Hua Street,138 Industrial Area,  
TangXia, DongGuan, China.  
Product : SMART WI-FI HUMIDIFIER  
Model No. : MW3038, AN-H35S  
Trade name : AUSANAT

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247**  
**ANSI C63.10: 2013**

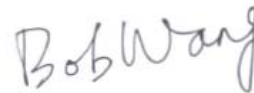
The EUT was tested according to DTS test procedure of April 02, 2019 KDB558074 D01 DTS Meas Guidance v0502 for compliance to FCC 47CFR 15.247 requirements.

The device described above is tested by SHENZHEN ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and SHENZHEN ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of SHENZHEN ACCURATE TECHNOLOGY CO. LTD.

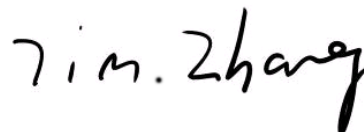
Date of Test of Rev. 1 :	<u>Aug. 03, 2019--Aug. 12, 2019</u>
Date of Test of Rev. 2 :	<u>Sep. 20, 2020</u>
Date of Report of Rev. 1	<u>Aug. 13, 2019</u>
Date of Report of Rev. 2	<u>Sep. 21, 2020</u>

Prepared by :



(Bob Wang, Engineer)

Approved & Authorized Signer :



(Tim.zhang, Manager)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT	:	SMART WI-FI HUMIDIFIER
Model Number	:	MW3038, AN-H35S
Frequency Range	:	802.11b/g/n(20MHz): 2412-2462MHz
Number of Channels	:	802.11b/g/n (20MHz):11
G <sub>ANT</sub> MAX	:	2.51dBi
Type of Antenna	:	PCB Antenna
Power Supply	:	AC 100-240V ~ , 50/60Hz
Data Rate	:	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: up to 150Mbps
Modulation Type	:	DSSS, OFDM
Applicant	:	Guangdong Mixwell Technology Co., Ltd.
Address	:	1-4#F, A building, No.7, Yu Hua Street,138 Industrial Area, TangXia, DongGuan, China
Manufacturer	:	Guangdong Mixwell Technology Co., Ltd.
Address	:	1-4#F, A building, No.7, Yu Hua Street,138 Industrial Area, TangXia, DongGuan, China
Date of sample received	:	Aug. 02, 2019
Date of Test	:	Aug. 03, 2019--Aug. 12, 2019

### 1.2. Special Accessory and Auxiliary Equipment

PC	Manufacturer: LENOVO
	M/N: 4290-RT8
	S/N: R9-FW93G 11/08

### 1.3. Model difference declaration

MW3038, AN-H35S are identical in interior structure, electrical circuits and components, and just model number is different for the marketing requirement.

### 1.4. Laboratory Accreditation and Relationship to Customer

EMC Lab : Recognition of accreditation by Federal Communications Commission (FCC)  
The Designation Number is CN1189  
The Registration Number is 708358

Listed by Innovation, Science and Economic Development Canada (ISED)  
The Registration Number is 5077A-2

Accredited by China National Accreditation Service for Conformity Assessment (CNAS)  
The Registration Number is CNAS L3193

Accredited by American Association for Laboratory Accreditation (A2LA)  
The Certificate Number is 4297.01

Name of Firm : Shenzhen Accurate Technology Co., Ltd.  
Site Location : 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

### 1.5. Measurement Uncertainty

Radiated emission expanded uncertainty = 4.28dB, k=2  
(30MHz-1000MHz)

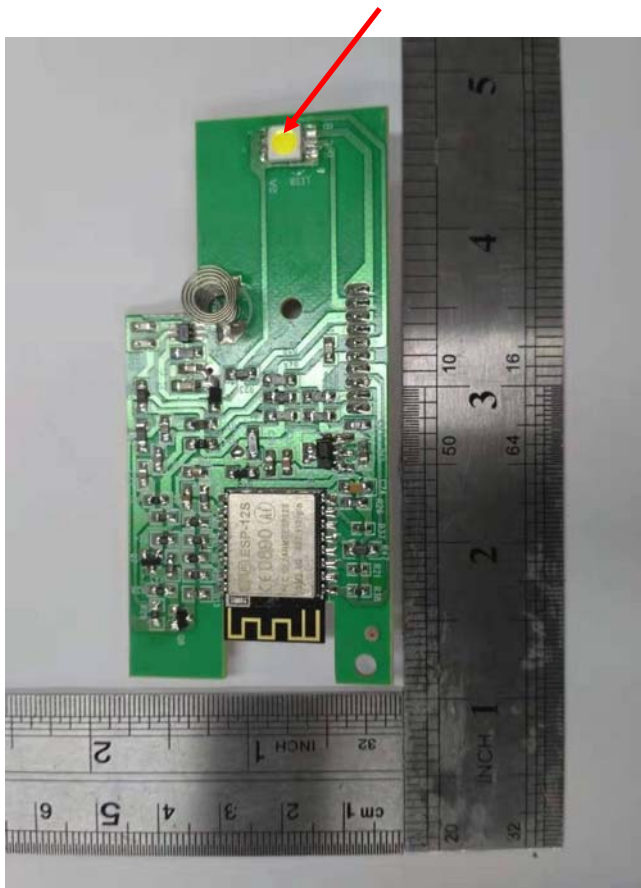
## 2. DESCRIPTION OF VERSION

Edition No.	Date of Rev.	Summary	Report No.
REV.1	Aug. 13, 2019	Original Report	ATE20191168
REV.2	Sep. 21, 2020	This is an update report based on the original report ATE20191168. Description of change(s): (1) Update Model. (2) Update Trade Name. (3) Update LED indicator light replacement manufacturer	RTZ200911020-RFA1-00

Remark for Rev. 2.

1. This report is an additional version with original report number ATE20191168. The different with original report please see the above table of REV.2.
2. Compared with the original report ATE20191168, sample of the new provision is exactly the same as the old one. Through evaluation of the above difference, the EMC need to tests (Radiated Spurious Emissions Test 30-1000MHz). Other all test data and test pictures would refer to ATE20191168.
3. This report is based on report of ATE20191168.

Update LED indicator light replacement manufacturer.



### 3. MEASURING DEVICE AND TEST EQUIPMENT

#### 3.1. For Radiated Emission Test

Item	Equipment	Manufacturer	Type	S/N	Calibrated dates	Validity
1.	Test Receiver	Rohde & Schwarz	ESR	101817	Jan.04, 2020	1 Year
2.	Pre-Amplifier	Agilent	8447D	294A10619	Jan.04, 2020	1 Year
3.	50 Coaxial Switch	Anritsu Corp	MP59B	6200237248	Jan.04, 2020	1 Year
4.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan.05, 2020	1 Year
5.	RF Coaxial Cable (Radiated Emission)	SUHNER	N-5m	NO.3	Jan.04, 2020	1 Year
6.	RF Coaxial Cable (Radiated Emission)	SUHNER	N-5m	NO.4	Jan.04, 2020	1 Year
7.	RF Coaxial Cable (Radiated Emission)	SUHNER	N-1m	NO.5	Jan.04, 2020	1 Year
8.	RF Coaxial Cable (Radiated Emission)	SUHNER	N-1m	NO.6	Jan.04, 2020	1 Year
9.	Measurement Software: EZ_EMV V1.1.4.2					

## 4. OPERATION OF EUT DURING TESTING

### 4.1. Operating Mode

The mode is used: **1.802.11b Transmitting mode**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

### **2.802.11g Transmitting mode**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

### **3.802.11n (20MHz) Transmitting mode**

Low Channel: 2412MHz

Middle Channel: 2437MHz

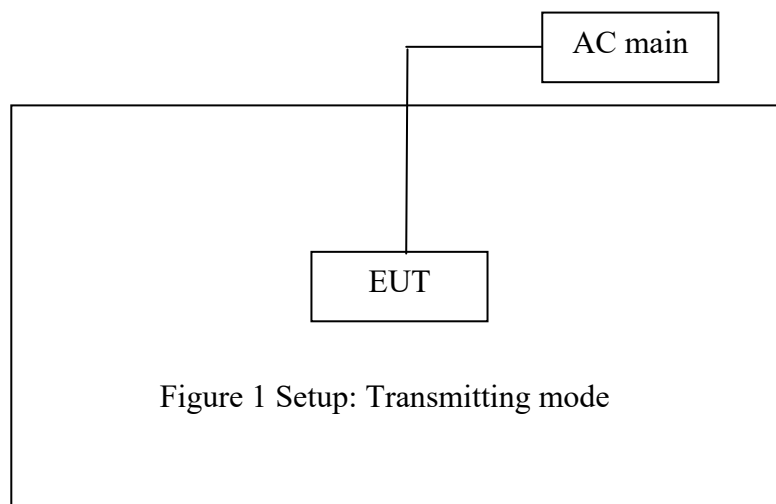
High Channel: 2462MHz

### 4.2. Carrier Frequency of Channels

802.11b, 802.11g, 802.11n (20MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	---	---

### 4.3. Configuration and peripherals





#### 4.4. Test mode

Test Mode	Test Modes Description
11B	IEEE 802.11b with data rate of 1 Mbps
11G	IEEE 802.11g with data rate of 6 Mbps
11N20MHz	IEEE 802.11n with data rate of MCS0 and bandwidth of 20 MHz

NOTE: Worst cases for each IEEE 802.11 mode are selected to perform tests.

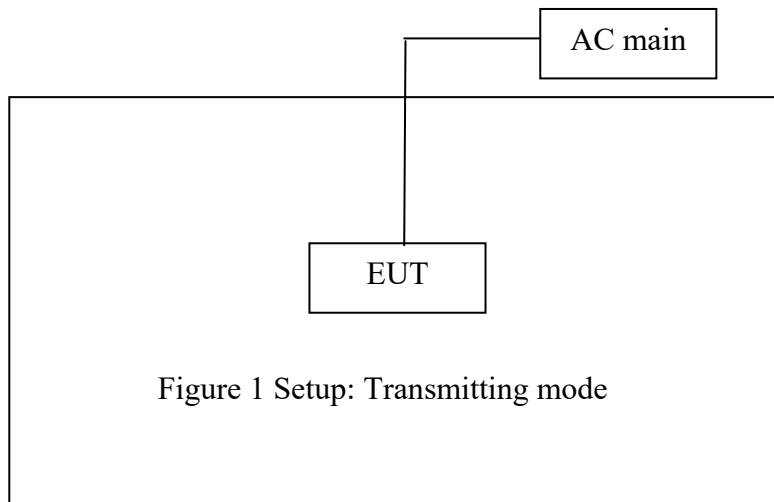
## 5. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.207	AC power Line Conducted Emission Test	Compliant Note: Refer to the original report
Section 15.247(a)(2)	6dB Occupied Bandwidth Test	Compliant Note: Refer to the original report
KDB558074 D01 DTS Meas Guidance v0502	Duty cycle	Compliant Note: Refer to the original report
KDB558074 D01 DTS Meas Guidance v0502	OBW	Compliant Note: Refer to the original report
Section 15.247(b)(3)	Maximum conducted (average) output power	Compliant Note: Refer to the original report
Section 15.247(e)	Power Spectral Density Test	Compliant Note: Refer to the original report
Section 15.205 Section 15.209	Radiated Spurious Emissions Test	Compliant Note: Update LED indicator light replacement manufacturer. The EMC need to tests (Radiated Spurious Emissions Test 30-1000MHz)
Section 15.247(d)	Band Edge Compliance Test	Compliant Note: Refer to the original report
Section 15.203	Antenna Requirement	Compliant Note: Refer to the original report

## 6. RADIATED SPURIOUS EMISSION TEST

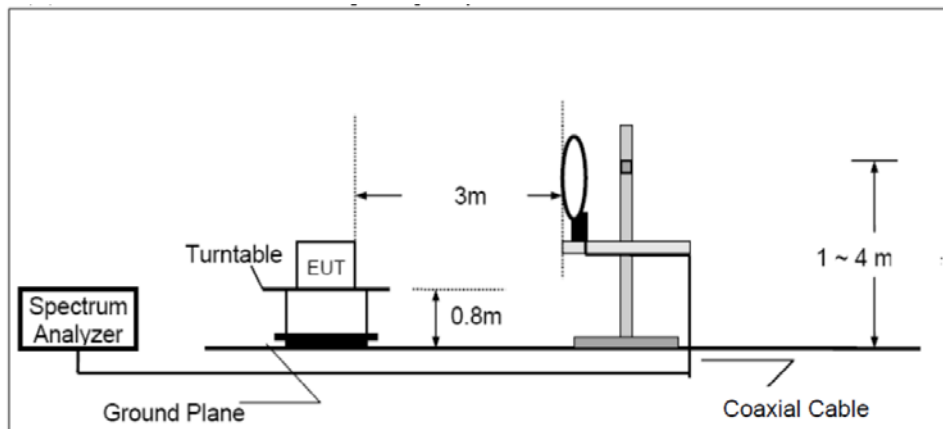
### 6.1. Block Diagram of Test Setup

#### 6.1.1. Block diagram of connection between the EUT and peripherals

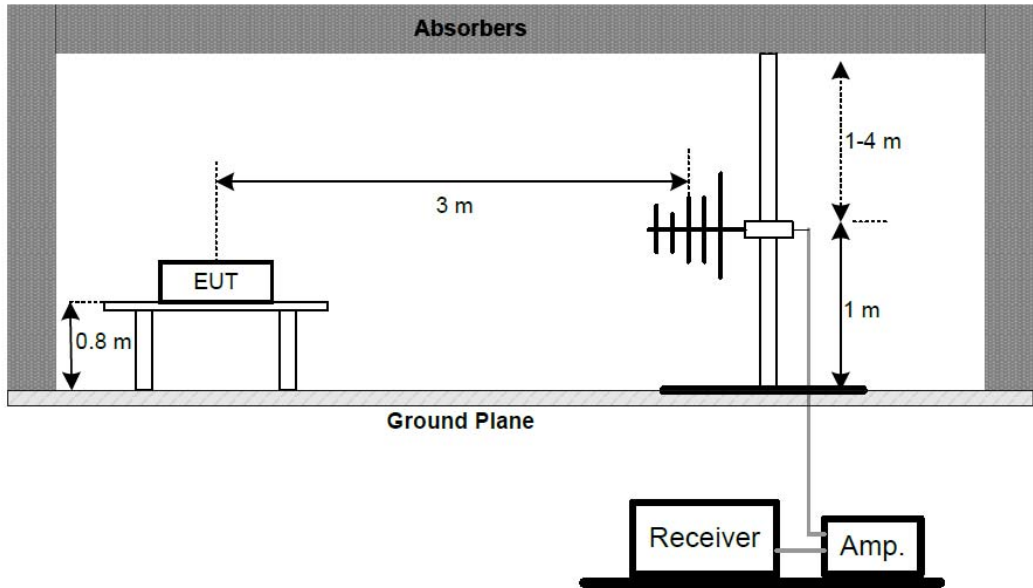


#### 6.1.2. Semi-Anechoic Chamber Test Setup Diagram

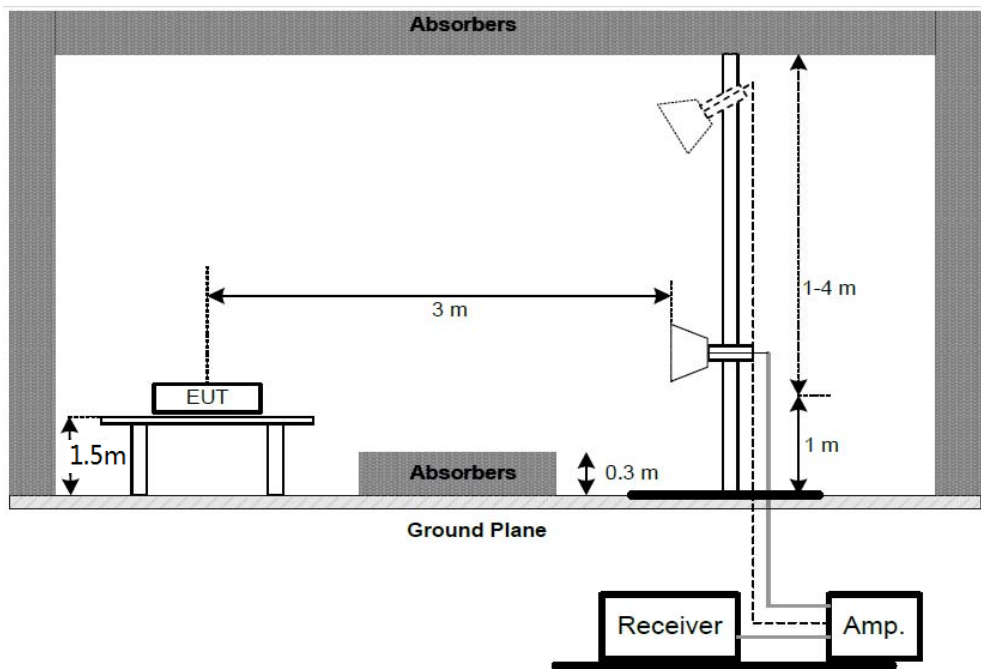
##### (A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1GHz



Above 1GHz:



## 6.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

## 6.3.Restricted bands of operation

### 6.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	( <sup>2</sup> )
13.36-13.41			

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510

<sup>2</sup>Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

## 6.4. Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 6.5. Operating Condition of EUT

6.5.1. Setup the EUT and simulator as shown as Section 10.1.

6.5.2. Turn on the power of all equipment.

6.5.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz and 2462MHz TX frequency to transmit.

## 6.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground (Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground (Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The worst-case data rate for this channel to be 1Mbps for 802.11b mode and 6Mbps for 802.11g mode and 150Mbps for 802.11n mode, based on previous with 802.11 WLAN product design architectures.

The frequency range from 30MHz to 25000MHz is checked.

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

During the radiated emission test, the spectrum analyzer was set with the following configurations:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions

are reported.

## 6.7. The Field Strength of Radiation Emission Measurement Results

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. \*: Denotes restricted band of operation.

3. The EUT is tested radiation emission at each test mode (802.11b/g/n) in three axes. The worst emissions are reflected in the following plots.

4. The average measurement was not performed when peak measured data under the limit of average detection.

## Below 1G


**ACCURATE TECHNOLOGY CO., LTD.**

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1370

Standard: FCC 15.209

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: SMART WI-FI HUMIDIFIER

Mode: TX 2412MHz

Model: MW3038

Manufacturer: Guangdong Mixwell Technology Co.,Ltd.

Polarization: Horizontal

Power Source: AC 120V/60Hz

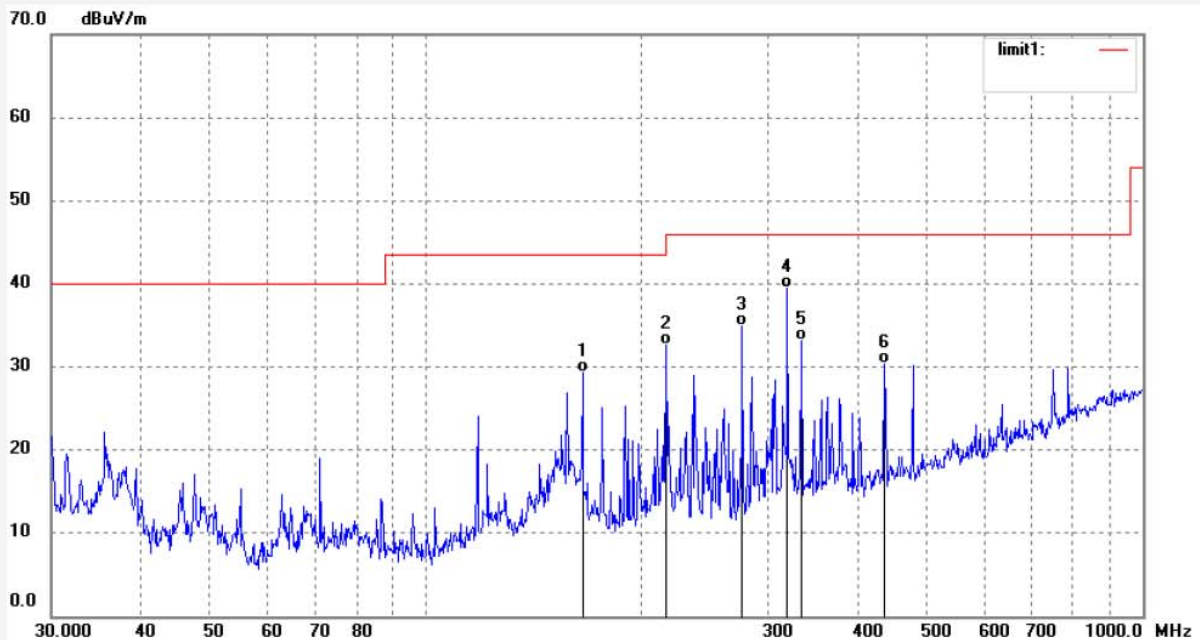
Date: 2020/09/20/

Time: 10/20/55

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:RTZ200911020-RFA1-00



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	165.0054	55.74	-26.48	29.263	43.50	-14.27	QP	200	130	
2	216.3691	56.74	-24.05	32.691	46.00	-13.39	QP	200	212	
3	276.2216	57.17	-22.33	34.85	46.00	-11.15	QP	200	61	
4	319.3941	60.20	-20.65	39.52	46.00	-6.48	QP	200	115	
5	334.6515	53.09	-19.94	33.13	46.00	-12.87	QP	200	146	
6	436.6954	48.05	-17.60	30.45	46.00	-15.55	QP	200	63	




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Job No.: Bob #1369

Standard: FCC 15.209

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: SMART WI-FI HUMIDIFIER

Mode: TX 2412MHz

Model: MW3038

Manufacturer: Guangdong Mixwell Technology Co.,Ltd.

Polarization: Vertical

Power Source: AC 120V/60Hz

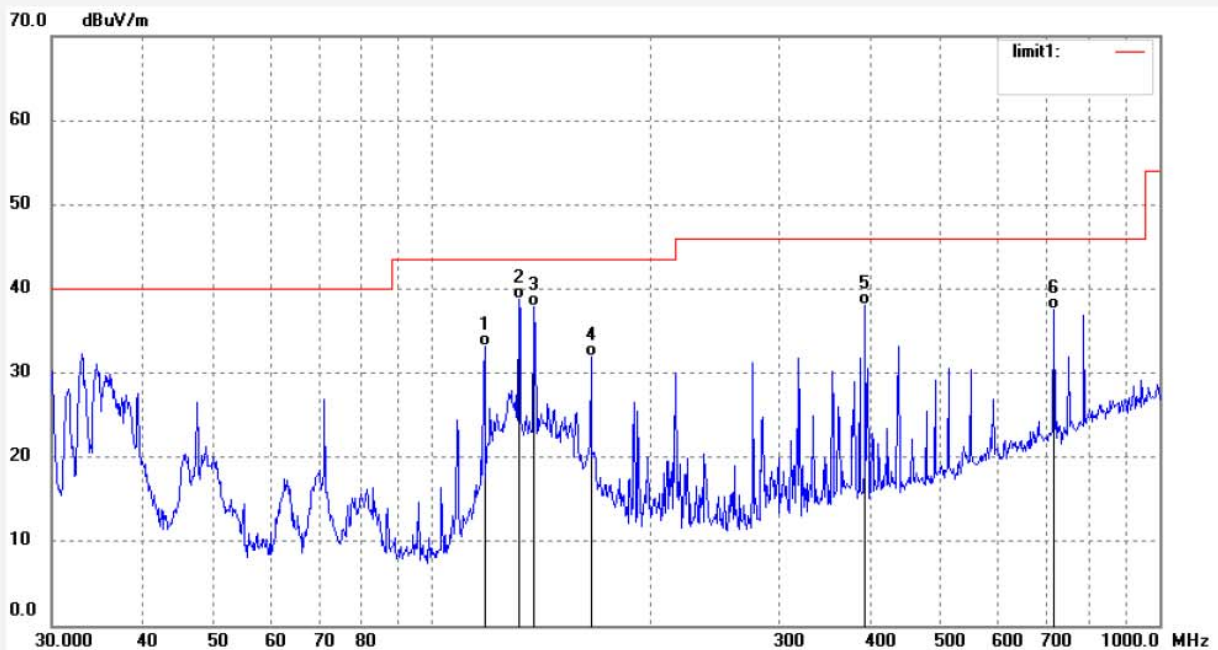
Date: 2020/09/20/

Time: 10/15/15

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:RTZ200911020-RFA1-00



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	118.02341	60.51	-27.40	33.12	43.50	-10.38	QP	100	189	
2	131.1475	66.51	-27.75	38.97	43.50	-4.53	QP	100	103	
3	138.1487	65.79	-27.91	37.88	43.50	-5.62	QP	100	201	
4	165.9564	58.45	-26.48	31.91	43.50	-11.59	QP	100	311	
5	394.1457	56.40	-18.41	37.99	46.00	-8.01	QP	100	63	
6	716.4586	48.70	-11.09	37.63	46.00	-8.37	QP	100	212	


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Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1365

Standard: FCC 15.209

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: SMART WI-FI HUMIDIFIER

Mode: TX 2437MHz

Model: MW3038

Manufacturer: Guangdong Mixwell Technology Co.,Ltd.

Polarization: Vertical

Power Source: AC 120V/60Hz

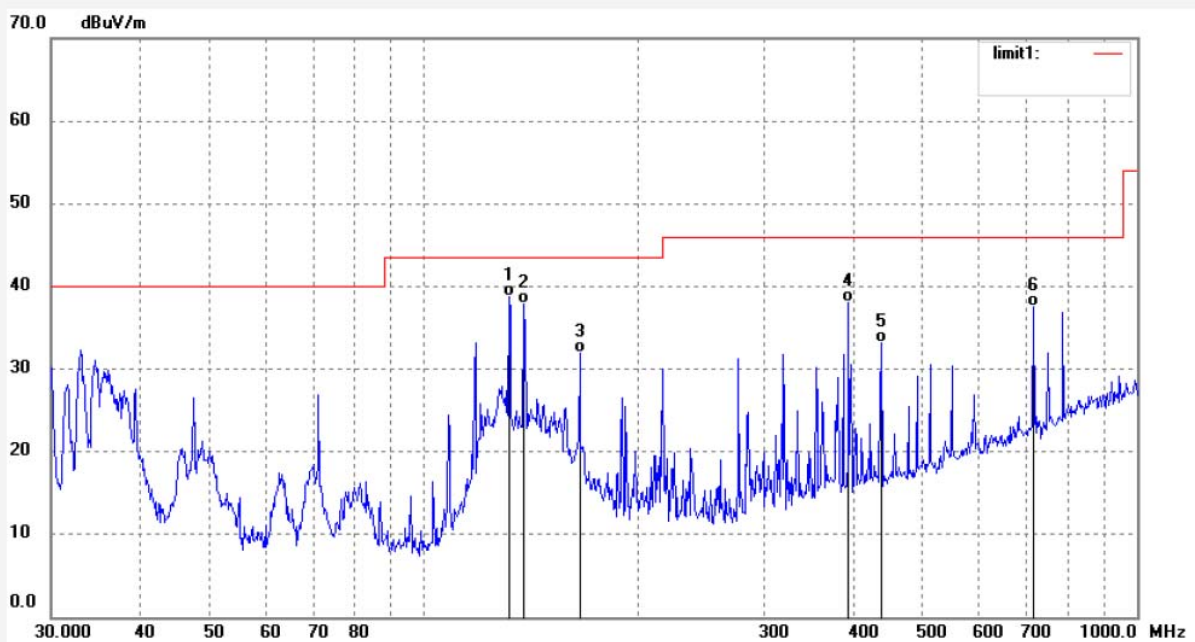
Date: 2020/09/20/

Time: 10/02/04

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:RTZ200911020-RFA1-00



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	131.1587	66.51	-27.75	38.63	43.50	-4.87	QP	100	223	
2	138.2481	65.79	-27.91	37.87	43.50	-5.63	QP	100	85	
3	165.2471	58.45	-26.48	31.95	43.50	-11.55	QP	100	201	
4	394.1695	56.40	-18.41	37.94	46.00	-8.06	QP	100	112	
5	437.8410	50.69	-17.58	33.18	46.00	-12.82	QP	100	93	
6	716.2894	48.70	-11.09	37.61	46.00	-8.39	QP	100	103	

Job No.: Bob #1366

Standard: FCC 15.209

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: SMART WI-FI HUMIDIFIER

Mode: TX 2437MHz

Model: MW3038

Manufacturer: Guangdong Mixwell Technology Co.,Ltd.

Polarization: Horizontal

Power Source: AC 120V/60Hz

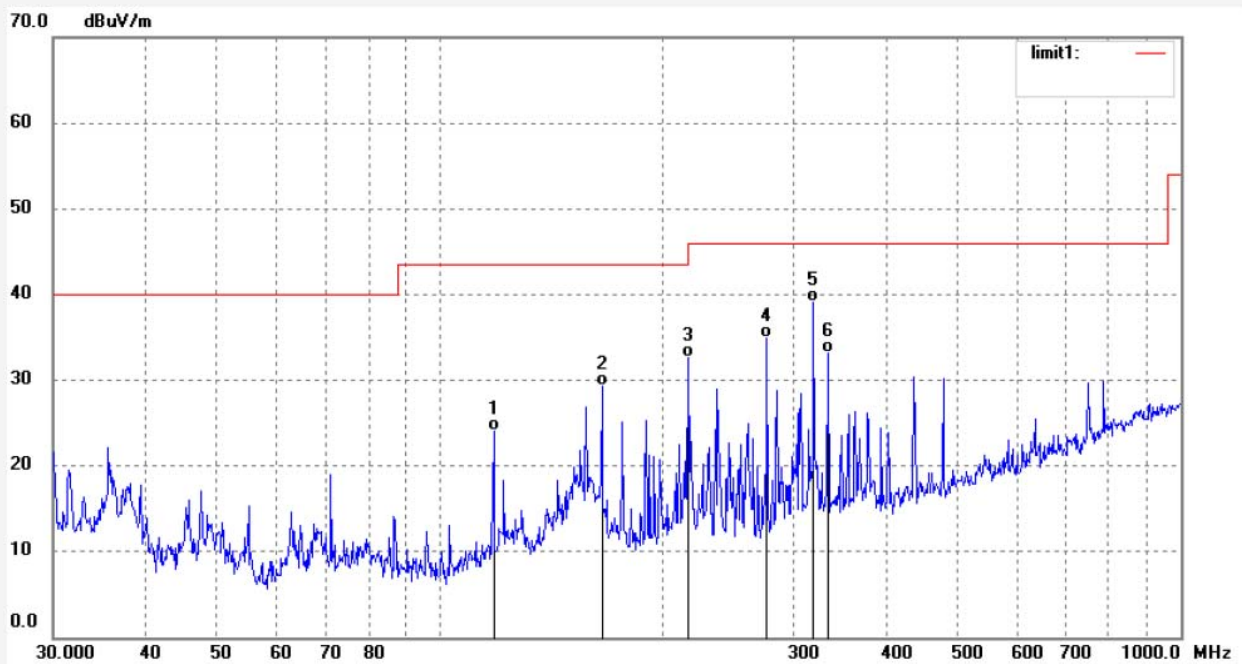
Date: 2020/09/20/

Time: 10/05/11

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:RTZ200911020-RFA1-00



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	118.2241	51.45	-27.40	24.03	43.50	-19.47	QP	200	200	
2	165.3847	55.74	-26.48	29.23	43.50	-14.27	QP	200	110	
3	216.6507	56.74	-24.05	32.69	46.00	-13.31	QP	200	201	
4	276.1568	57.17	-22.33	34.82	46.00	-11.18	QP	200	331	
5	319.2111	59.70	-20.65	39.04	46.00	-6.96	QP	200	269	
6	334.6547	53.09	-19.94	33.14	46.00	-12.86	QP	200	103	

Job No.: Bob #1367

Standard: FCC 15.209

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: SMART WI-FI HUMIDIFIER

Mode: TX 2462MHz

Model: MW3038

Manufacturer: Guangdong Mixwell Technology Co.,Ltd.

Polarization: Horizontal

Power Source: AC 120V/60Hz

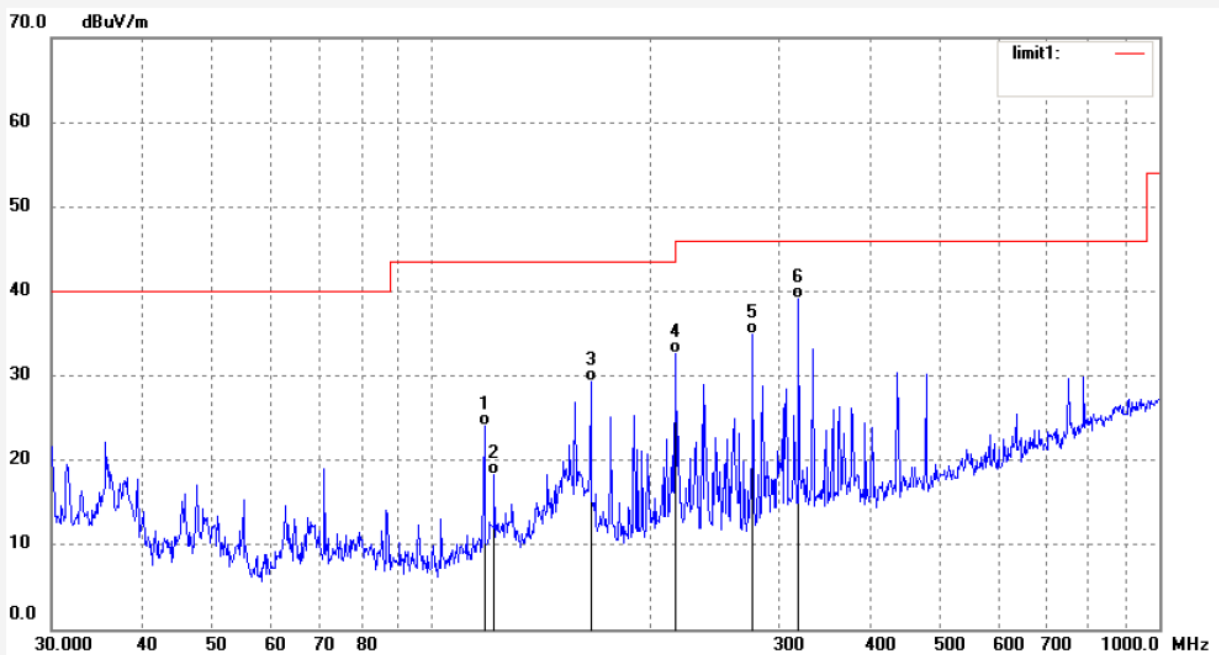
Date: 2020/09/20/

Time: 10/08/33

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:RTZ200911020-RFA1-00



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	118.1451	51.45	-27.40	24.054	43.50	-19.46	QP	200	163	
2	121.5748	45.84	-27.49	18.31	43.50	-25.19	QP	200	211	
3	165.4561	55.74	-26.48	29.24	43.50	-14.26	QP	200	201	
4	216.2263	56.74	-24.05	32.69	46.00	-13.31	QP	200	96	
5	276.1451	57.17	-22.33	34.85	46.00	-11.15	QP	200	331	
6	319.2456	59.70	-20.65	39.01	46.00	-6.99	QP	200	218	


**ACCURATE TECHNOLOGY CO., LTD.**

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Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: Bob #1368

Standard: FCC 15.209

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: SMART WI-FI HUMIDIFIER

Mode: TX 2462MHz

Model: MW3038

Manufacturer: Guangdong Mixwell Technology Co.,Ltd.

Polarization: Vertical

Power Source: AC 120V/60Hz

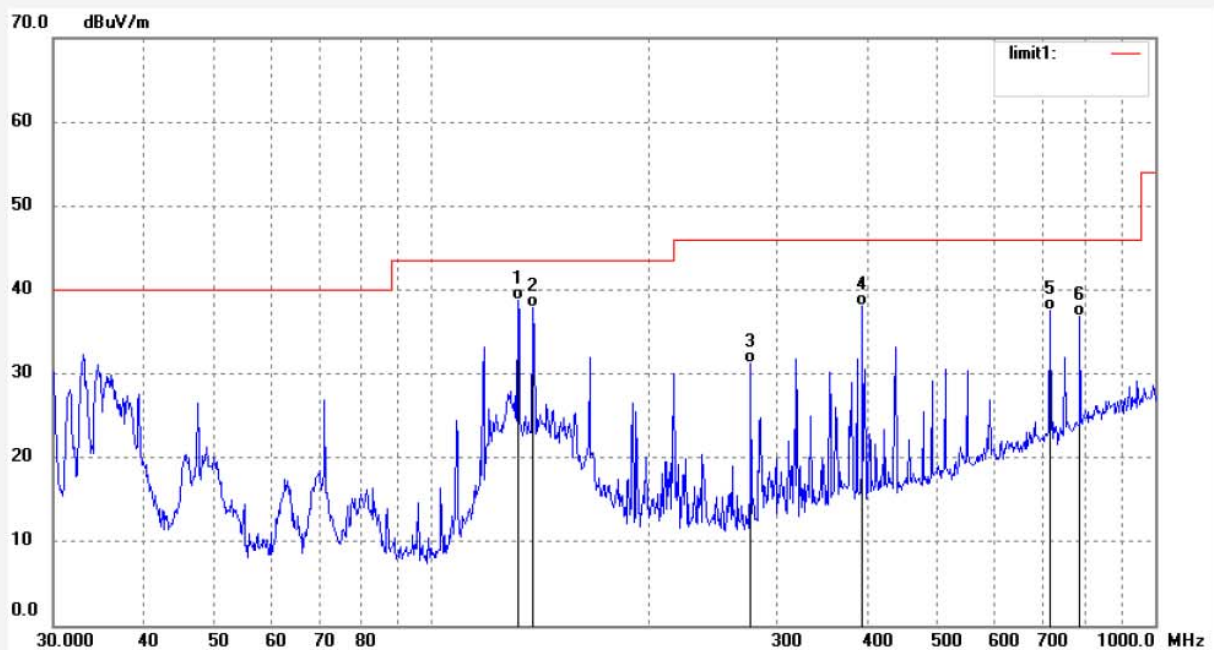
Date: 2020/09/20/

Time: 10/11/51

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:RTZ200911020-RFA1-00



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	131.3584	66.51	-27.75	38.71	43.50	-4.79	QP	100	146	
2	138.1541	65.79	-27.91	37.82	43.50	-5.68	QP	100	330	
3	276.3824	53.58	-22.33	31.25	46.00	-14.75	QP	100	100	
4	394.1174	56.40	-18.41	37.99	46.00	-8.01	QP	100	359	
5	716.2574	48.70	-11.09	37.63	46.00	-8.37	QP	100	201	
6	787.1457	46.21	-9.33	36.88	46.00	-9.12	QP	100	179	