



FCC TEST REPORT

On Behalf of
Shenzhen Hengmeite Technology Co., Ltd.

Product Name: QD-H07 Humidifier

Trademark: N/A

Model Number: QD-H07

Prepared For: Shenzhen Hengmeite Technology Co., Ltd.

Address: 2nd Floor, Building 14, Zone C, Fangxing Science Park, Nanlian Sixth Industrial Zone, Longgang District, Shenzhen City, Guangdong P.R. China

Prepared By: ShenZhen BYS testing co.Ltd.

Address: Floor 4, Building 2, No.38 Guangda Road, Yuanshan Street, Longgang District, Shenzhen, China.

Report No.: BYS211108442FR



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ShenZhen BYS testing co.Ltd.

Applicant : Shenzhen Hengmeite Technology Co., Ltd.

Address : 2nd Floor, Building 14, Zone C, Fangxing Science Park, Nanlian Sixth Industrial Zone, Longgang District, Shenzhen City, Guangdong P.R.
China

Manufacturer : Shenzhen Hengmeite Technology Co., Ltd.

Address : 2nd Floor, Building 14, Zone C, Fangxing Science Park, Nanlian Sixth Industrial Zone, Longgang District, Shenzhen City, Guangdong P.R.
China

EUT : QD-H07 Humidifier

Model Number : QD-H07

Trademark: : N/A

Test Date : Nov. 08, 2021 - Nov. 10, 2021

Date of Report : Nov. 08, 2021

Test Result: : The equipment under test was found to be compliance with the requirements of the standards applied.



Test Procedure Used:

FCC Part 15 Subpart B

ANSI C63.4:2014

Prepared by(Test Engineer):

Reviewer(Supervisor):

Approved(Manager):

1.GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : QD-H07 Humidifier

Trademark : N/A

Model Number : QD-H07

Model Difference : N/A

Power Supply : DC 5V, 400-500mA

Work Frequency : Below 108MHz

Note: RS3 was selected as the test model and the datas have been recorded in this report.



1.2. Tested System Details

Personal Computer	: DELL	Monitor	: SONY
M/N	: INSPIRON	M/N	: MNT1
Printer	: EPSON STYLUS	Keyboard	: Genuine
M/N	: P320A	(USB)	
		M/N	: N/A
Modem	: ACEEX	Mouse	: DETROIS
M/N	: DM-1414	M/N	: CM309

1.3. Test Uncertainty

Conducted Emission Uncertainty	: ± 2.48 dB
Radiated Emission Uncertainty	: ± 4.14 dB



1.4. Test Facility

Site Description

Name of Firm : ShenZhen BYS testing co.Ltd.

Site Location : Floor 4, Building 2, No.38 Guangda Road, Yuanshan Street, Longgang District, Shenzhen, China.



2. TEST INSTRUMENT USED

2.1 CONDUCTED TEST SITE

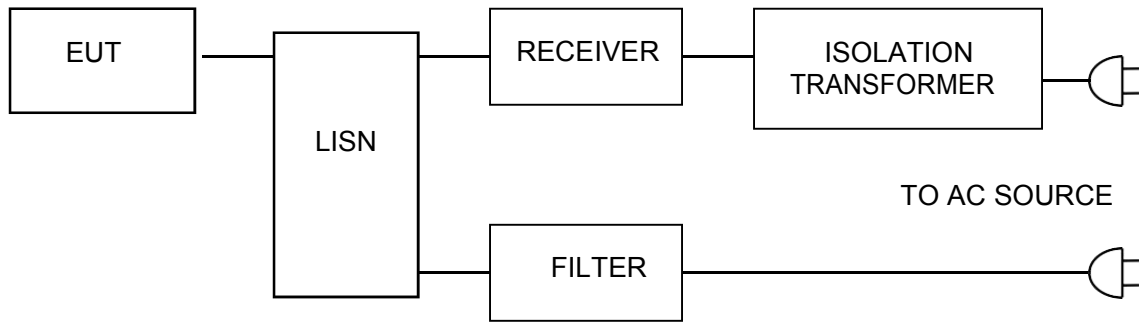
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101313	Nov. 12, 2021
2	LISN	EMCO	3816/2	00042990	Nov. 12, 2021
3	50Ω Switch	ANRITSU CORP	MP59B	6200983704	Nov. 12, 2021
4	EMI Test Receiver	R&S	ESCI	101160	Nov. 12, 2021
5	Passive Voltage Probe	ESH2-Z3	R&S	100196	Nov. 12, 2021
6	Triple-Loop Antenna	EVERFINE	LIA-2	11020003	Nov. 12, 2021
7	Absorbing Clamp	R&S	MDS-21	100423	Nov. 12, 2021
8	Coupling/ Decoupling Network	PH	ISN T800	S1509001	Nov. 12, 2021

2.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Bilog Antenna	TESEQ	CBL6111D	31216	Nov. 12, 2021
2	EMI Test Receiver	R&S	ESCI-7	101318	Nov. 12, 2021
3	Antenna Mast	EM	SC100_1	N/A	Nov. 12, 2021
4	50Ω Switch	Anritsu Corp	MP59B	6200983705	Nov. 12, 2021
5	Spectrum Analyzer	Aglient	E4407B	MY45108040	Nov. 12, 2021
6	Horn Antenna	EM	EM-AH-1018 0	2011071402	Nov. 12, 2021
7	Amplifier	EM	EM-30180	060538	Nov. 12, 2021

3. CONDUCTED EMISSION AT THE MAINS TERMINALS TEST

3.1. Block Diagram Of Test Setup



3.2. Test Standard

FCC PART 15 B

3.3. Power Line Conducted Emission Limit

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. EUT Configuration on Test

The following equipments are installed on conducted emission test to meet FCC PART 15 B requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.5. Operating Condition of EUT

3.5.1 Setup the EUT and simulators as shown in Section 3.1.

3.5.2 Turn on the power of all equipments.

3.5.3 Let the EUT work in test modes and test it.



3.6. Test Procedure

The EUT is put on the ground and connected to the AC mains through a Artificial Mains Network (AMN). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the **FCC PART 15 B** regulations during conducted emission test.

The bandwidth of the test receiver (R&S Test Receiver ESCI) is set at 10KHz.

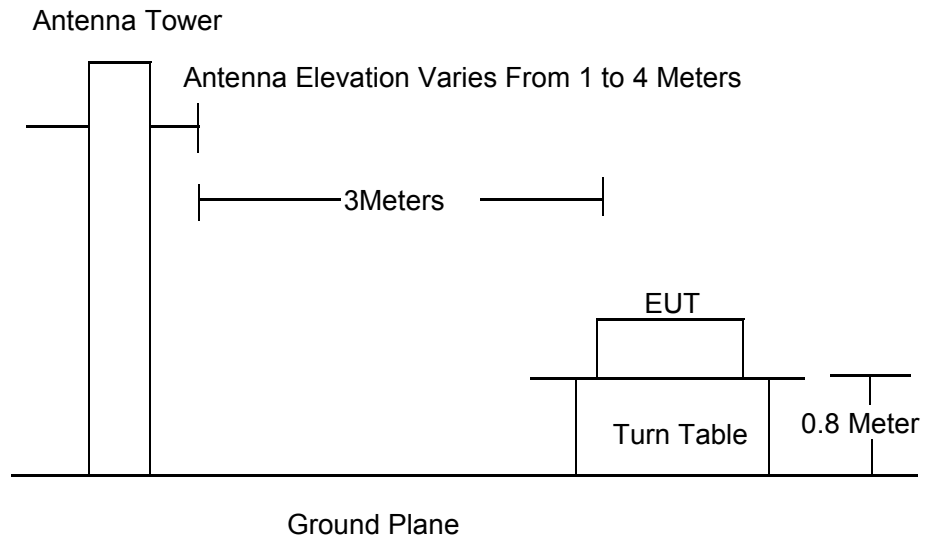
The frequency range from 150 KHz to 30 MHz is investigated.

3.7. Test Result

The product's power provide by DC, no requirement for this item.

4. RADIATION EMISSION TEST

4.1. Block Diagram of Test Setup



4.2. Test Standard

FCC PART 15 B

4.3. Radiation Limit

Frequency MHz	Distance (Meters)	Field Strengths Limits dB(μ V)/m
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0

4.4. EUT Configuration on Test

The FCC PART 15 B regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test. Please refer to Section 2.2.

4.5. Operating Condition of EUT

Same as conducted emission test, which is listed in Section 2.2 except the test set up replaced as Section 4.1.



4.6. Test Procedure

The EUT and its simulators are placed on a turned table that is 0.8 meter above the ground. The turned table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find the maximum emission levels, the interface cable must be manipulated according to FCC PART 15 B on radiated emission test.

The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 120KHz below 1GHz, set at 1MHz above 1GHz

The frequency range from 30MHz to 1000MHz is checked.

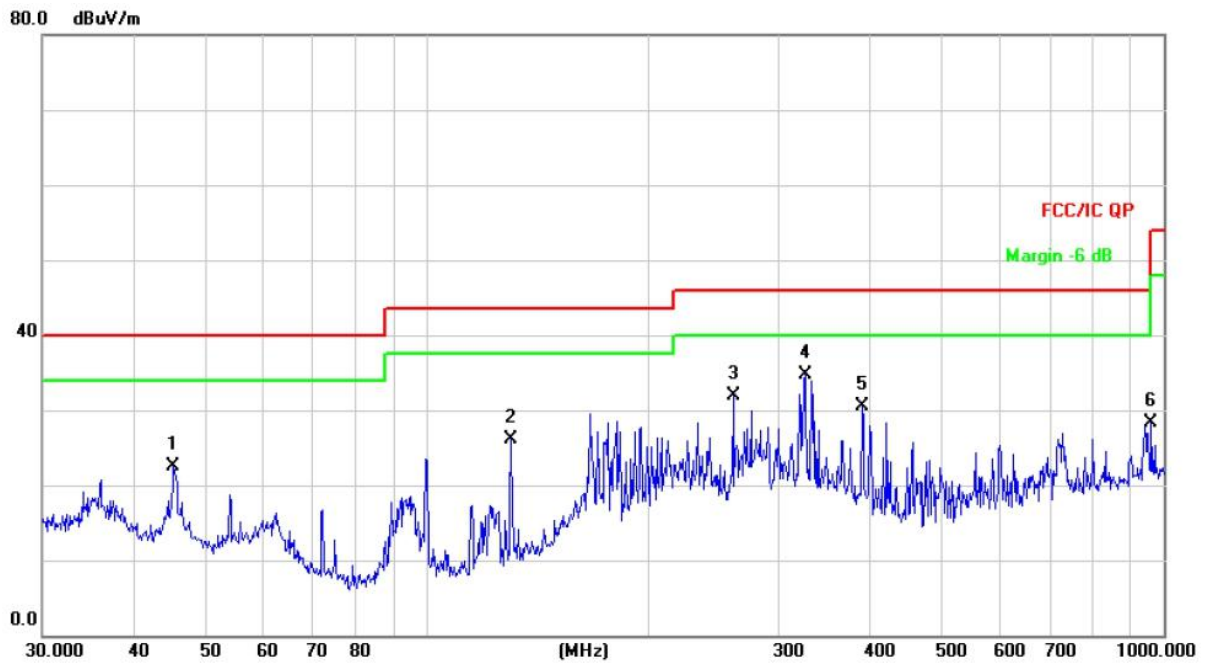
4.7. Test Result

PASS

Please refer to the following page.



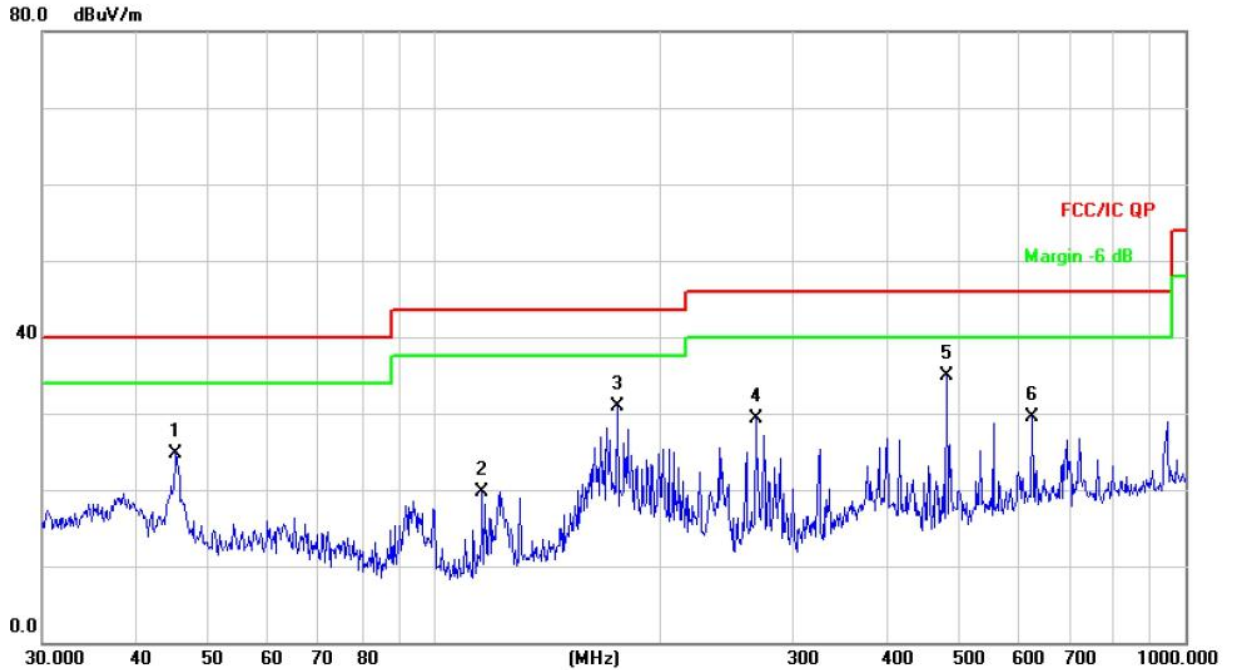
Radiation Emission Test Data			
Temperature:	24.8 °C	Relative Humidity:	55%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	DC 5V, 400-500mA	Test Mode:	ON Mode



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		45.2166	31.97	-9.51	22.46	40.00	-17.54	QP		
2		99.5281	40.07	-16.52	23.55	40.00	-16.45	QP		
3		129.9226	40.14	-14.11	26.03	40.00	-13.97	QP		
4	*	166.0680	42.70	-13.23	29.47	40.00	-10.53	QP		
5		180.6488	43.00	-14.42	28.58	40.00	-11.42	QP		
6		325.5958	46.68	-11.92	34.76	47.00	-12.24	QP		



Radiation Emission Test Data			
Temperature:	24.8 °C	Relative Humidity:	55%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	DC 5V, 400-500mA	Test Mode:	ON Mode



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Detector	Comment
1	45.2165	34.31	-9.51	24.80	40.00	-15.20			QP	
2	115.7256	34.86	-15.07	19.79	43.50	-23.71			QP	
3	175.0367	44.77	-13.89	30.88	43.50	-12.62			QP	
4	267.5455	42.97	-13.61	29.36	46.00	-16.64			QP	
5	* 480.5276	43.36	-8.42	34.94	46.00	-11.06			QP	
6	625.0779	35.08	-5.52	29.56	46.00	-16.44			QP	

5. PHOTOGRAPHS

Photo 1

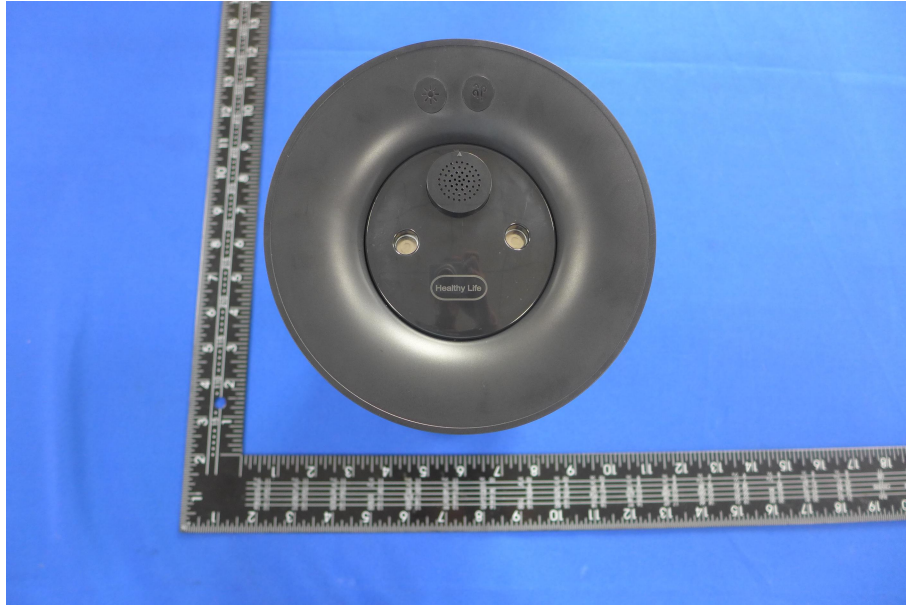


Photo 2



Photo 3



Photo 4

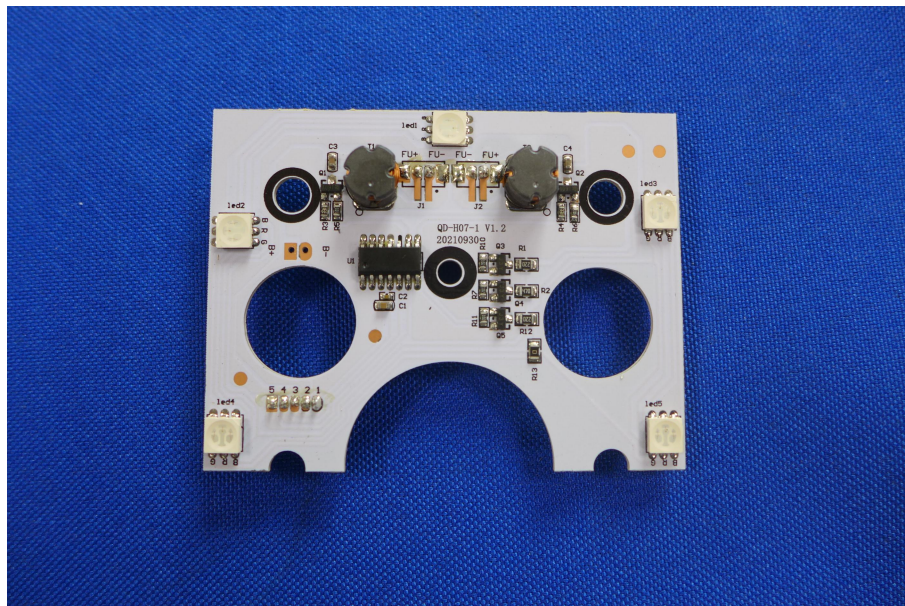


Photo 5

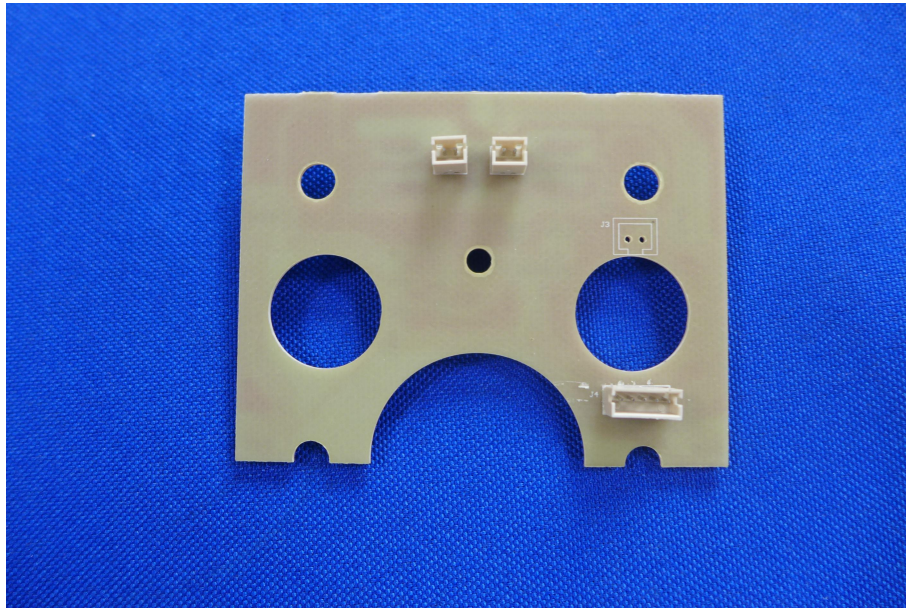


Photo 6

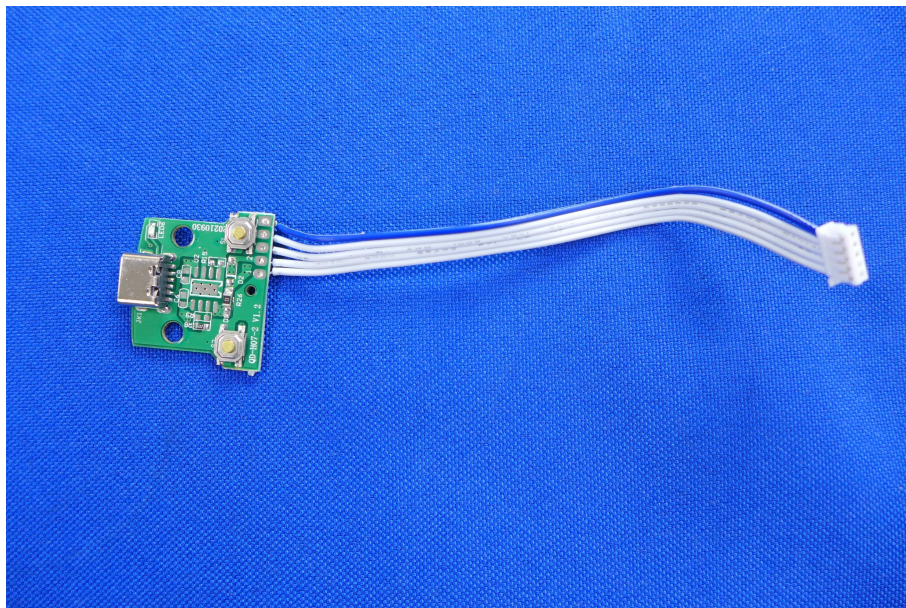


Photo 7



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