

# FCC RADIO TEST REPORT FCC ID:2AAV8QH-Z

Product : Doorbell Transmitter Trade Name : QUHWA Model Name : QH-Z Serial Model : N/A Report No. : NTEK- 2015NT0813495F

# **Prepared for**

SHENZHEN QIAOHUA INDUSTRIES LIMITED

Qiaohua Industrial Zone, Luo Tian Forestry Center, Song Gang Town, Bao An District, Shenzhen, Guangdong, 518105 China

# **Prepared by**

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# **TEST RESULT CERTIFICATION**

pplicant's name       SHENZHEN QIAOHUA INDUSTRIES LIMITED         ddress       Qiaohua Industrial Zone, Luo Tian Forestry Center, Song Gang Town, Bao An District, Shenzhen, Guangdong, 518105 China         anufacture's Name       SHENZHEN QIAOHUA INDUSTRIES LIMITED         ddress       Qiaohua Industrial Zone, Luo Tian Forestry Center, Song Gang Town, Bao An District, Shenzhen, Guangdong, 518105 China         ddress       Qiaohua Industrial Zone, Luo Tian Forestry Center, Song Gang Town, Bao An District, Shenzhen, Guangdong, 518105 China         roduct description       Forestription									
Product description Product name									
Model and/or type reference : QH-Z									
Serial Model : N/A									
Standards FCC Part15.231 01 Oct. 2014									
Test procedure ANSI C63.10-2013									
This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.									
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Date of Test									
Date (s) of performance of tests									
Date of Issue 25 Aug. 2015									
Test Result									
Λ									
Testing Engineer : Allun lin									
(Allen Liu)									
Technical Manager : Brown Un									
(Brown Lu)									
Authorized Signatory :									



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## **1. SUMMARY OF TEST RESULTS**

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.231)							
Standard Section	Test Item	Judgment	Remark				
15.207	Conducted Emission	N/A					
15.203	Antenna Requirement	Pass					
15.231	Radiated Spurious Emission	Pass					
15.231	Occupied Bandwidth	Pass					
15.231	Transmitter Timeout	Pass					

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.

#### **1.1 TEST FACILITY**

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

#### **1.2 MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement  $y\pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of ~k=2, providing a level of confidence of approximately 95 %  $^\circ$ 

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

#### 2. GENERAL INFORMATION

#### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Doorbell Transmitter					
Trade Name	QUHWA	QUHWA				
Model Name	QH-Z					
Serial Model	N/A					
Model Difference	N/A					
	The EUT is a Doorbell	Fransmitter				
	Operation Frequency:	433.92MHz				
	Modulation Type:	ASK				
Product Description	Number Of Channel	1CH.				
Floddet Description	Antenna Designation:	PCB Antenna				
	Antenna Gain(Peak)	1.0 dBi				
Channel List	Refer to below					
Adapter	N/A					
Battery	DC 3.0V					

#### Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	PCB Antenna	N/A	1.0	Antenna



#### 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	ТХ

For Radiated Emission					
Final Test Mode	Description				
Mode 1	TX				



### 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT



#### 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Doorbell Transmitter	QUHWA	QH-Z	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in  $\[$ Length $\]$  column.



#### 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

	ation rest equi						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2015.07.06	2016.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2015.07.06	2016.07.05	1 year

#### Conduction Test equipment

Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period	
Test Receiver	R&S	ESCI	101160	2015.06.06	2016.06.05	1 year	
LISN	R&S	ENV216	101313	2015.08.24	2016.08.23	1 year	
LISN	EMCO	3816/2	00042990	2015.08.24	2016.08.23	1 year	
50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2015.06.07	2016.06.06	1 year	
Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year	
Absorbing clamp	R&S	MOS-21	100423	2015.06.08	2016.06.07	1 year	
LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year	
LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year	
	Kind of Equipment Test Receiver LISN LISN 50Ω Coaxial Switch Passive Voltage Probe Absorbing clamp	Kind of EquipmentManufactu rerTest ReceiverR&SLISNR&SLISNEMCO50Ω Coaxial SwitchAnritsuPassive Voltage ProbeR&SAbsorbing clampR&SLISNR&S	Kind of EquipmentManufactu rerType No.Test ReceiverR&SESCILISNR&SENV216LISNEMCO3816/250Ω Coaxial SwitchAnritsuMP59BPassive Voltage ProbeR&SESH2-Z3Absorbing clampR&SMOS-21LISNR&SENV216	Kind of EquipmentManufactu rerType No.Serial No.Test ReceiverR&SESCI101160LISNR&SENV216101313LISNEMCO3816/20004299050Ω Coaxial SwitchAnritsuMP59B620026441 7Passive Voltage ProbeR&SESH2-Z3100196Absorbing clampR&SMOS-21100423LISNR&SENV216101313	Kind of EquipmentManufactu rerType No.Serial No.Last calibrationTest ReceiverR&SESCI1011602015.06.06LISNR&SENV2161013132015.08.24LISNEMCO3816/2000429902015.08.2450Ω Coaxial SwitchAnritsuMP59B620026441 72015.06.07Passive Voltage ProbeR&SESH2-Z31001962015.06.07Absorbing clampR&SMOS-211004232015.06.08LISNR&SENV2161013132014.08.24	Kind of EquipmentManufactu rerType No.Serial No.Last calibrationCalibrated untilTest ReceiverR&SESCI1011602015.06.062016.06.05LISNR&SENV2161013132015.08.242016.08.23LISNEMCO3816/2000429902015.08.242016.08.2350Ω Coaxial SwitchAnritsuMP59B620026441 72015.06.072016.06.06Passive Voltage ProbeR&SESH2-Z31001962015.06.072016.06.06Absorbing clampR&SMOS-211004232015.06.082016.06.07LISNR&SENV2161013132014.08.242015.08.23	



#### **3. ANTENNA REQUIREMENT**

#### 3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### 3.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

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#### 4. EMC EMISSION TEST

#### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard	
	Quasi-peak	Average	Quasi-peak	Average	Stanuaru	
0.15 -0.5			66 - 56 *	56 - 46 *	CISPR	
0.50 -5.0			56.00	46.00	CISPR	
5.0 -30.0			60.00	50.00	CISPR	

0.15 -0.5		66 - 56 *	56 - 46 *	LP002.
0.50 -5.0		56.00	46.00	LP002.
5.0 -30.0		60.00	50.00	LP002.

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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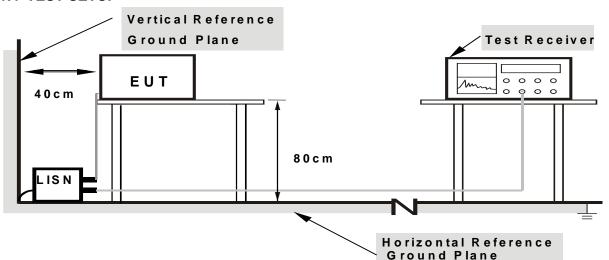
#### 4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



.

# 4.1.5 TEST RESULT

EUT :	Doorbell Transmitter	Model Name. :	QH-Z
Temperature :	<b>26</b> ℃	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N/A
Test Voltage :	N/A	Test Mode :	N/A

#### 4.2 RADIATED EMISSION MEASUREMENT

4.2.1 Radiated Emission Limits (FCC 15.209)					
Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)			
0.009~0.490	2400/F(KHz)	300			
0.490~1.705	24000/F(KHz)	30			
1.705~30.0	30	30			
30~88	100	3			
88~216	150	3			
216~960	200	3			
Above 960	500	3			

Note:

(1) The tighter limit applies at the band edges.

(2) Emission level (dBuV/m)=20log Emission level (uV/m).

#### LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.231)

Fundamental Frequency (MHz)	Field Strength of fundamental (microvolts/meter)	Field Strength of Unwanted Emissions (microvolts/meter)
40.66 - 40.70	2250.00	225.00
70 - 130	1250.00	125.00
130 - 174	1,250 to 3,750 **	125 to 375 **
174 - 260	3750.00	375.00
260 - 470	3,750 to 12,500 **	375 to 1,250 **
Above 470	12500.00	1250.00

Notes:

(1) \*\* linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, uV/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, uV/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in 93 Section 15.209, whichever limit permits a higher field strength. NTEK

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

#### 4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

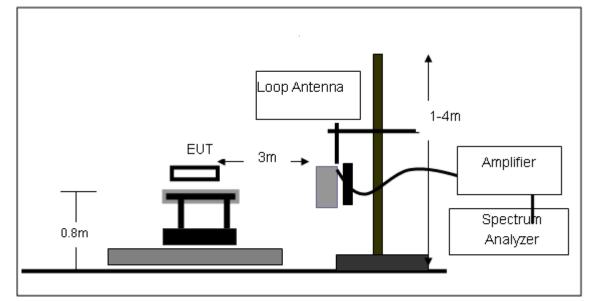
#### 4.2.3 DEVIATION FROM TEST STANDARD

No deviation

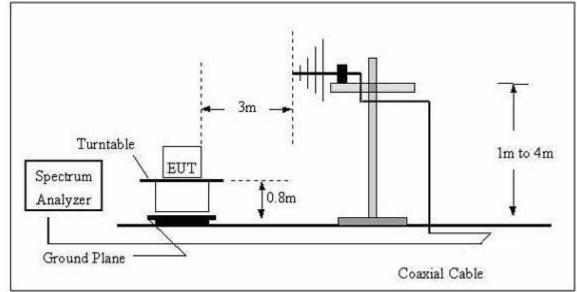


#### 4.2.4 TEST SETUP

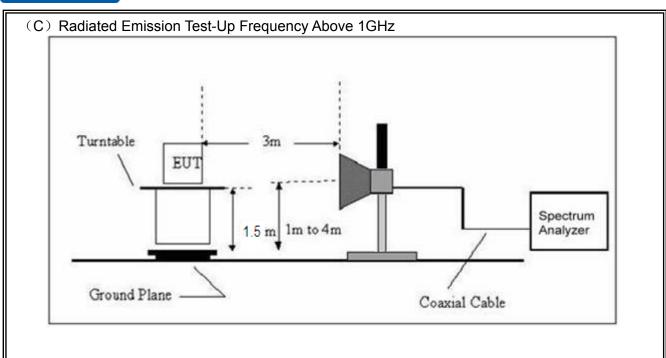
(A) Radiated Emission Test-Up Frequency Below 30MHz



#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz









#### 4.2.5 TEST RESULTS (BELOW 30MHz)

EUT :	Doorbell Transmitter	Model Name. :	QH-Z
Temperature :	<b>20</b> ℃	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	N/A
Test Mode :	ТХ	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				N/A
				N/A

#### NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



#### 4.2.6 TEST RESULTS (BETWEEN 30 - 4000 MHZ)

EUT :	Doorbell Transmitter	Model Name :	QH-Z
Temperature :	<b>20</b> ℃	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	ТХ	Polarization :	Horizontal

Frequency	Average Factor	Field Strength	Field Strength	Limit(PK)	Limit(AV)	State
MHz	dB	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	Sidle
433.92	-7.36	66.89	59.53	100.82	80.82	pass
867.84	-7.36	36.58	29.22	80.83	60.83	pass
1301.76	-7.36	35.84	28.48	80.83	60.83	pass
1735.68	-7.36	33.16	25.80	80.83	60.83	pass

EUT :	Doorbell Transmitter	Model Name :	QH-Z
Temperature :	<b>20</b> °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	ТХ	Polarization :	Vertical

Frequency	Average Factor	Field Strength	Field Strength	Limit(PK)	Limit(AV)	State	
MHz	dB	dBuV/m (PK)	dBuV/m (AV)	dBuV/m dBuV/m		State	
433.92	-7.36	67.31	59.95	100.82	80.82	pass	
867.84	-7.36	30.80	23.44	80.83	60.83	pass	
1301.76	-7.36	32.45	25.09	80.83	60.83	pass	
1735.68	-7.36	35.01	27.65	80.83	60.83	pass	

**Note: 1.** EUT Pre-scan X/Y/Z orientation, only worst case is presented in the report(Z orientation).

2. \*Calculate Average value based on Duty Cycle correction factor:

Duty Cycle=Ton/(Ton+Toff)= (1.117ms×9+0.4 ms×9)/31.87ms =0.42=42%

Duty Cycle factor=20lg(Duty Cycle)=20lg(0.42)= -7.36dB

Average=Peak+ Duty Cycle factor

2. Pulse Desensitization Correction Factor

Pulse Width(PW)=13.653ms

2/PW=2/14.4027ms=0.14kHz

RBW(100kHz) >2/PW (0.14KHz)

Therefore PDCF is not needed



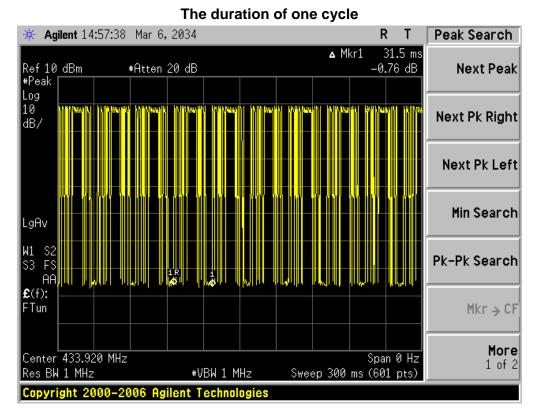
#### 4.2.7 Duty Cycle

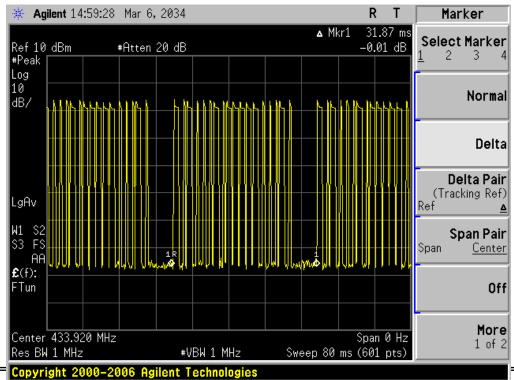
The duty cycle is simply the on time divided by the period:

The duration of one cycle = 31.87ms

Effective period of the cycle =  $1.117ms \times 9+0.4ms \times 9=13.653ms$ 

Duty Cycle = 13.653ms/31.87ms =0.42







.

🗧 Agilent	15:03:15	Mar 6,20	)34	R	Т	Peak Search
ef 10 dBm Peak	) <b>+</b>	Atten 20	dB	▲ Mkr2 1.1: -1.9		Next Peak
og Ø B/					$\mathbb{H}$	Next Pk Right
						Next Pk Left
gAv		Lunnu	1 ่ห_1 แหล่งหุ่งชื่องจัจรายสีรายที่ม		M	Min Search
enter 433 es BW 1 M Marker		Туре	#VBW 1 MHz X Axis	Span Sweep 10 ms (601 Amplitud	pts)	Pk-Pk Search
1R 1 2R 20	(1) (1) (1) (1) (1)	Time Time Time Time Time	4.7 ms 400 µs 6.867 ms 1.117 ms	-67.96 dB 0.33 d -67.57 dB -1.95 d	m B m	Mkr → CF
						<b>More</b> 1 of 2



#### 5. BANDWIDTH TEST

#### 5.1 TEST PROCEDURE

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier. Limit: 433.92MHz\*0.25%=1084.8KHz

#### 5.2 DEVIATION FROM STANDARD

No deviation.

#### 5.3 TEST SETUP

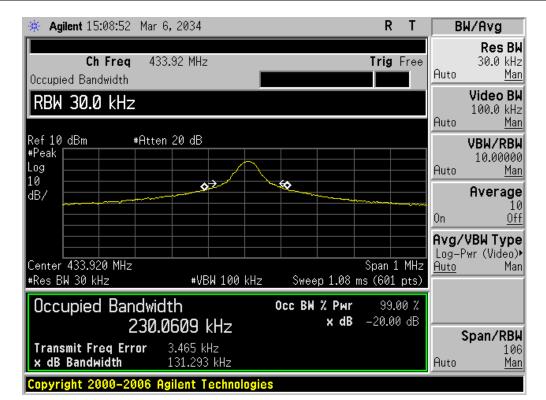




#### 5.4 TEST RESULTS

		1	L
EUT :	Doorbell Transmitter	Model Name :	QH-Z
Temperature :	<b>26</b> ℃	Relative Humidity :	53%
Pressure :	1020 hPa	Test Power :	DC 3.0V
Test Mode :	TX CH 1		

Test Channel	Frequency	20 dBc Bandwidth	Limit	
	(MHz)	(kHz)	(kHz)	
CH01	CH01 433.92		1084.8	



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#### **6. TRANSMITTER TIMEOUT**

#### **6.1 REQUIREMENTS**

1 A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

**Result:** The EUT has a manual activated transmitter, please refer to below detail data.

2 A transmitter activated automatically shall cease transmission within 5 seconds after activation.

Result: The EUT does not have a automatically activated transmitter .

3 Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour

**Result:**The EUT does not employ periodic transmission.

4 Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.

To at alata

Result: The section is not applicable to EUT.

		Test da	ata			
🔆 Agilent 14:	56:02 Mar 6, 203	4		R	TP	'eak Search
Ref 10 dBm #Peak	#Atten 20 d	B	▲ Mkr:	l 1 -0.10	l.6 s dB	Next Pea
Log 10 dB/						lext Pk Righ
						Next Pk Lef
LgAv						Min Searcl
	1R	1 Reserve of the second	hepperturburgenetic and adapting	han daa gaalaa gaalaa	P	k-Pk Searcl
£(f): FTun						Mkr⇒C
Center 433.92 Res BW 1 MHz		#VBW 1 MHz	: Sweep 10 s	Span 0 (601 r		Mor 1 of

THE DURATION OF EACH TRANSMISSION	LIMIT	RESULT		
1.6s	<5s	PASS		



# 7. EUT TEST PHOTO **Radiated Measurement Photos** 10 2