

# FCC TEST REPORT FCC ID: 2AG2K4

Product	:	Lovehoney Remote Control Rechargeable Dildo Thrusting Sex Machine Set [Black]			
Model Name	:	LH-81895			
Additional Model	:	LH-83355,LH-83362			
Brand	:	N/A			
Report No.		PTC21031700410E-FC01			

# **Prepared for**

A&H Design Group, Ltd.

6/F, Room 601, Liby Center, Liwan District, No.2 Luju Road, Guangzhou, Guangdong

# Prepared by

Precise Testing & Certification Co., Ltd.

Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China



## 1 TEST RESULT CERTIFICATION

Applicant's name : A&H Design Group, Ltd.

Address 6/F, Room 601, Liby Center, Liwan District, No.2 Luju Road,

Guangzhou, Guangdong

Manufacture's name : A&H Design Group, Ltd.

Address 6/F, Room 601, Liby Center, Liwan District, No.2 Luju Road,

Guangzhou, Guangdong

Product name : Lovehoney Remote Control Rechargeable Dildo Thrusting Sex

Machine Set [Black]

Model name : LH-81895

Additional Model : LH-83355,LH-83362

Standards : FCC CFR47 Part 15 Section 15.231

Test procedure : ANSI C63.10:2013

Test Date : May 26, 2021 to Apr 14, 2021

Date of Issue : Apr 14, 2021

Test Result : Pass

This device described above has been tested by PTC, 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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# 2 Test Summary

Test Items	Test Requirement	Result
Conducted Emission	15.207	N/A
Radiated Spurious Emissions	15.209	PASS
Restricted Bands of Operation	15.205(a)	PASS
Field Strength of Fundamental and Harmonics	15.231(b)	PASS
Occupied Bandwidth	15.231(c)	PASS
Transmission Time	15.231(a)(1)	PASS
Duty Cycle	15.231	PASS
Antenna Requirement	15.203	PASS
Remark:		•
N/A: Not Applicable		

Note:

1. Note: The EUT only powered by battery, no need to evaluate AC Power Conducted Emission.

2. The EUT is powered by new batteries during the test.



# 3 General Information

# 3.1 General Description of E.U.T.

	1	
Product Name	•	Lovehoney Remote Control Rechargeable Dildo Thrusting Sex Machine Set [Black]
Model Name	:	LH-81895
Additional Model	:	LH-83355,LH-83362 Note:These models are identical, and all models have the same RF module and Antenna, except for button program and logo are different.
Operation Frequency	:	433.92MHz
Number of Channel	:	1
Type of Modulation	:	ASK
Antenna installation	:	Built-in antenna
Antenna Gain	•	0 dBi
Power supply	:	DC 5V/0.8A/ (Battery 3.7V 220mAH)
Hardware Version		Version 2.0
Software Version	:	Version 2.0



# 3.2 Test Methodology

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.



# 3.3 Test Site

Precise Testing & Certification Co., Ltd.

Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A-1



# 4 Equipment During Test

# 4.1 Equipments List

## RF Conducted Test

Name of Equipment	Manufacturer	nufacturer Model Serial No.		Characteristics	Calibration Due
MXG Signal Analyzer	Agilent	N9020A	SER MY5111038	10Hz-30GHz	Aug. 21, 2021
Coaxial Cable	CDS	79254	46107086	10Hz-30GHz	Aug. 21, 2021
Power Meter	Anritsu	ML2495A	0949003	300MHz-40GHz	Aug. 21, 2021
Power Sensor	Anritsu	MA2411B	0917017	300MHz-40GHz	Aug. 21, 2021

Remark: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

#### Radiated Emissions

Name of Equipment	Manutacturer		Serial No.	Characteristics	Calibration Due	
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	9KHz-3GHz	Aug. 21, 2021	
Loop Antenna	Schwarzbeck	FMZB 1519	012	9 KHz -30MHz	Aug. 21, 2021	
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3355	25MHz-2GHz	Aug. 21, 2021	
Preamplifier (low frequency)			9745-0013	1MHz-1GHz	Aug. 21, 2021	
Cable	Schwarzbeck	PLF-100	549489	9KHz-3GHz	Aug. 21, 2021	
Spectrum Analyzer	Agilent	E4407B	MY45109572	9KHz-40GHz	Aug. 21, 2021	
Horn Antenna	Antenna SCHWARZBECK 9120D		9120D-1246	1GHz-18GHz	Aug. 21, 2021	
Power Amplifier	Amplifier LUNAR EM LNA1G18-40 J101000000		J10100000081	1GHz-26.5GHz	Aug. 21, 2021	
Horn Antenna	SCHWARZBECK	BBHA 9170	9170-181	14GHz-40GHz	Aug. 21, 2021	
Amplifier	SCHWARZBECK BBV 9721 972		9721-205	18GHz-40GHz	Aug. 21, 2021	
Cable	H+S	CBL-26	N/A	1GHz-26.5GHz	Aug. 21, 2021	
RF Cable R&S R204		R21X	1GHz-40GHz	Aug. 21, 2021		



## Conducted Emissions

Name of Equipment	quipment Manufacturer		e of Equipment Manufacturer Model Serial No.		Characteristics	Calibration Due
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	9KHz-3GHz	Aug. 19, 2021	
Artificial Mains Network	Rohde&Schwarz	ENV216	102453	9KHz-300MHz	Aug. 19, 2021	
Artificial Mains Network	Rohde&Schwarz	ENV216	101342	9KHz-300MHz	Aug. 19, 2021	

# 4.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10 <sup>-6</sup>
Bandwidth	± 1.5 x 10 <sup>-6</sup>
Time	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.64dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~25GHz)	±4.74dB

4.3 Description of Support Units

Equipment	Model N	No. Series	No.
N/A	N/A	N/A	



## 5 Conducted Emission

Test Requirement: ; FCC CFR 47 Part 15 Section 15.207

Test Method: : ANSI C63.10: 2013

Test Result: : PASS

Frequency Range: : 150kHz to 30MHz

Class/Severity: : Class B

# 5.1 E.U.T. Operation

Operating Environment:

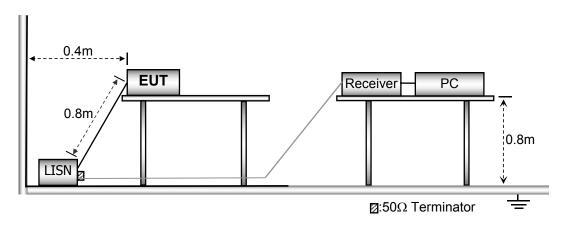
Temperature: : 25.5 °C

Humidity: : 51 % RH

Atmospheric Pressure: : 101.2kPa

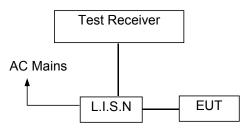
## 5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.





# 5.3 Test SET-UP (Block Diagram of Configuration)



### **5.4** Measurement Procedure

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured was complete.

#### 5.5 Conducted Emission Limit

#### **Conducted Emission**

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

#### Note:

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

## 5.6 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

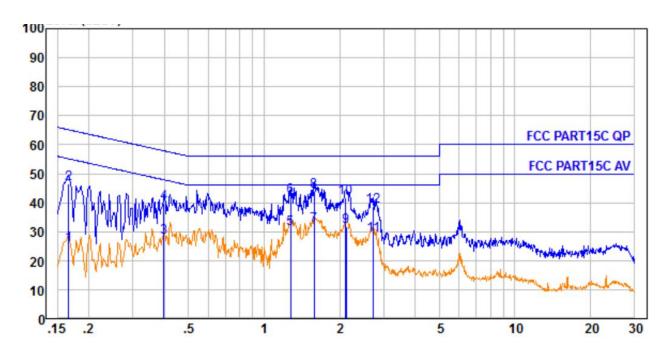
### 5.7 Conducted Emission Test Result

**PASS** 

120V/240V All the modulation modes were tested the data of the worst mode (AC 120V/60Hz,) are recorded in the following pages and the others modulation methods do not exceed the limits.



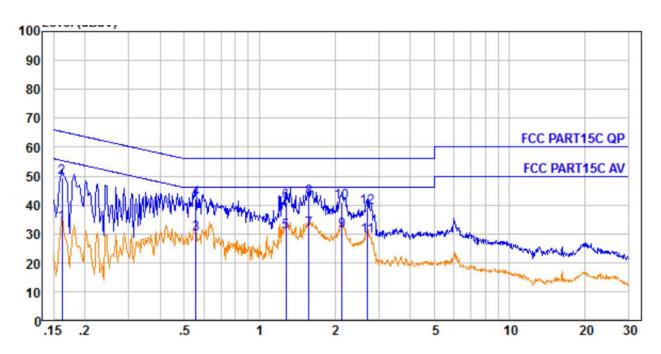
### Line-AC 120V/60Hz



No.	Freq MHz	Cable Loss dB	AMN Factor dB	Receiver Reading dBµV	Emission Level dBµV	Limit dBµ∨	Over Limit dB	Remark
1.	0.166	0.23	9.59	15.78	25.60	55.16	-29.56	Average
2.	0.166	0.23	9.59	36.75	46.57	65.16	-18.59	QP _
3.	0.398	0.40	9.60	17.92	27.92	47.90	-19.98	Average
4.	0.398	0.40	9.60	30.00	40.00	57.90	-17.90	QP -
5.	1.276	0.46	9.61	21.01	31.08	46.00	-14.92	Average
6.	1.276	0.46	9.61	32.09	42.16	56.00	-13.84	QP -
7.	1.585	0.47	9.61	22.06	32.14	46.00	-13.86	Average
8.	1.585	0.47	9.61	34.00	44.08	56.00	-11.92	QP
9.	2.121	0.47	9.61	21.67	31.75	46.00	-14.25	Average
10.	2.121	0.47	9.61	31.62	41.70	56.00	-14.30	QP
11.	2.736	0.47	9.62	18.75	28.84	46.00	-17.16	Average
12.	2.736	0.47	9.62	28.72	38.81	56.00	-17.19	QP



## Neutral-AC 120V/60Hz



No.	Freq MHz	Cable Loss dB	AMN Factor dB	Receiver Reading dBµV	Emission Level dBµV	Limit dBµV	Over Limit dB	Remark
1.	0.162	0.23	9.60	23.71	33.54	55.34	-21.80	Average
2.	0.162	0.23	9.60	39.77	49.60	65.34	-15.74	QP
3.	0.555	0.43	9.63	19.82	29.88	46.00	-16.12	Average
4.	0.555	0.43	9.63	31.89	41.95	56.00	-14.05	QP
5.	1.276	0.46	9.64	20.60	30.70	46.00	-15.30	Average
6.	1.276	0.46	9.64	30.97	41.07	56.00	-14.93	QP
7.	1.577	0.47	9.64	21.26	31.37	46.00	-14.63	Average
8.	1.577	0.47	9.64	32.24	42.35	56.00	-13.65	QP
9.	2.133	0.47	9.64	21.00	31.11	46.00	-14.89	Average
10.	2.133	0.47	9.64	31.01	41.12	56.00	-14.88	QP
11.	2.707	0.47	9.65	19.11	29.23	46.00	-16.77	Average
12.	2.707	0.47	9.65	29.15	39.27	56.00	-16.73	QP



# 6 Radiated Spurious Emissions

Test Requirement: : FCC CFR47 Part 15 Section 15.209

Test Method: : ANSI C63.10:2013

Test Result: : PASS
Measurement Distance: : 3m

Limit: : See the follow table

# FCC 15.205 Restricted bands of operation

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> )

# FCC 15.209 Limit:

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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





#### FCC 15.231 Limit:

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	2,250	225
70 - 130	1,250	125
130 - 174	1,250 to 3,750 **	125 to 375 **
174 - 260	3,750	375
260 - 470	3,750 to 12,500 **	375 to 1,250 **
Above 470	12,500	1,250

<sup>\*\*</sup> linear interpolations

The field intensity in micro-volts per meter can then be determined by the following equation: FI(V/m) = 10FI(dBV/m) / 20 The FCC specified emission limits were calculated according the EUT operating frequency and obtained by following linear interpolation equations:

(a) For fundamental frequency: fEUT: EUT Operating Frequency Emission Limit (V/m)

= [fEUT(MHz) 
$$- 260(MHz)$$
]  $\times \frac{12500(V/m) - 3750(V/m)}{470(MHz) - 260(MHz)} + 3750(V/m)$ 

(b) For spurious frequencies:

fEUT: EUT Operating Frequency Emission Limit (V/m)

= [fEUT(MHz) - 260(MHz)] 
$$\times \frac{1250(V/m) - 375(V/m)}{470(MHz) - 260(MHz)} + 375(V/m)$$

Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 1 5.209(a) limit in the table below has to be followed.

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).



FC	CC Part15 (15.231), Subpart C	
Fundamental Frequency	Field Strength Of Fundamental	Field Strength of Spurious Emissions
433.92MHz	AV:80.82 dBuV/m at 3m distance	AV:60.82 dBuV/m at 3m distance
	PK:100.82dBuV/m at 3m distance	PK:80.82 dBuV/m at 3m distance

# 6.1 EUT Operation

Operating Environment :

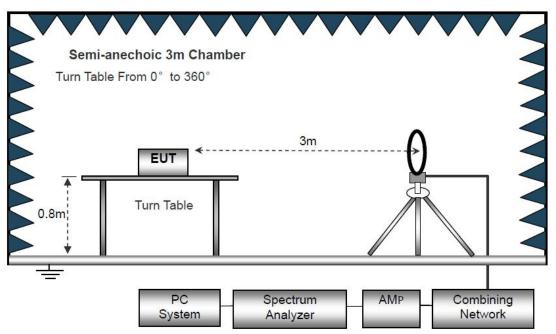
Temperature: : 24.5 °C
Humidity: : 52 % RH
Atmospheric Pressure: : 101.3kPa



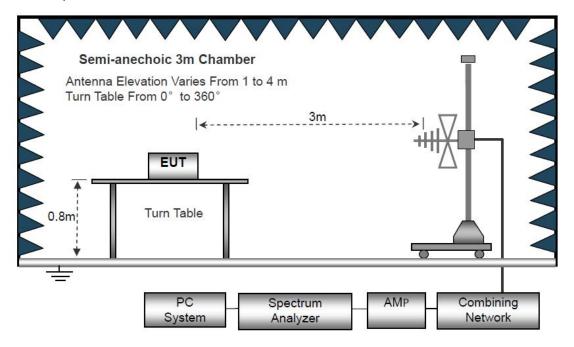
# 6.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

The test setup for emission measurement below 30MHz

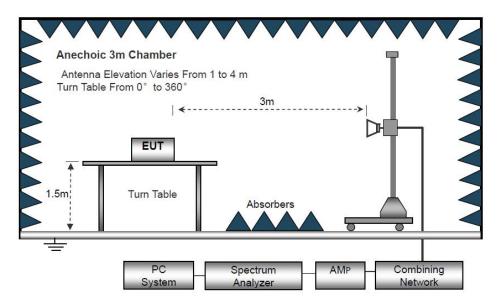


The test setup for emission measurement from 30 MHz to 1 GHz.





The test setup for emission measurement above 1 GHz



# 6.3 Spectrum Analyzer Setup

Below 30MHz				
IF Bandwidth	:	10kHz		
Resolution Bandwidth	:	10kHz		
Video Bandwidth	:	10kHz		
30MHz ~ 1GHz				
Detector	:	PK	QP	
Resolution Bandwidth	:	100kHz	120kHz	
Video Bandwidth	:	300kHz	300kHz	
Above 1GHz				
Detector	:	PK	AV	
Resolution Bandwidth	:	1MHz	1MHz	
Video Bandwidth	:	3MHz	10Hz	



### 6.4 Test Procedure

- 1. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane, And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
- 8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room



# 6.5 Summary of Test Results

### Test Frequency: 9KHz-30MHz

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)
				>20

### Note:

The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)( dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

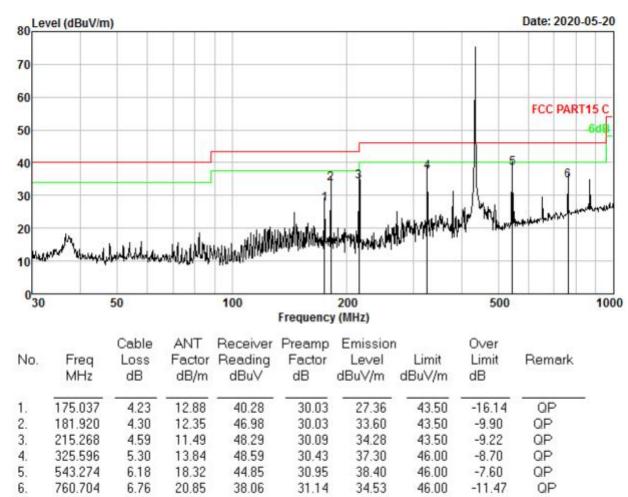
Test Frequency: 30MHz ~ 1GHz

Please refer to the following test plots:





### Antenna Polarization: Horizontal

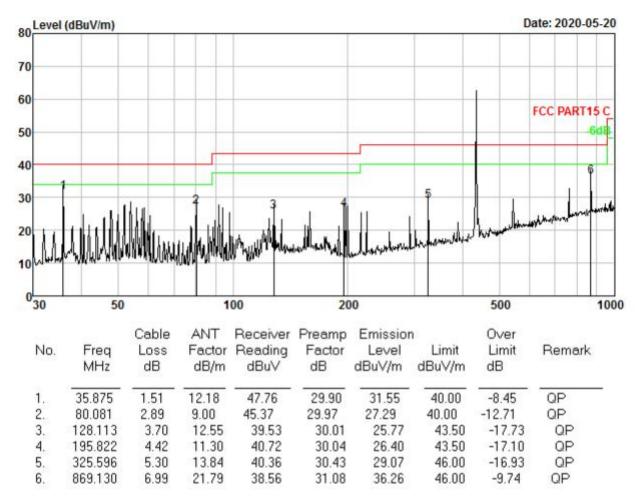


Remark: Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor





### Antenna Polarization: Vertical



Remark: Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor





## **Fundamental and Harmonics Average Result**

Frequency	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m	(dBuV/m)	Margi	in(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV
433.92	Н	76.02	62.41	100.82	80.82	-24.8	-18.41
433.92	V	63.13	49.52	100.82	80.82	-37.69	-31.3
867.84	Н	62.10	48.49	80.82	60.82	-18.72	-12.33
867.84	V	64.10	50.49	80.82	60.82	-16.72	-10.33

# Test Frequency: From 1GHz to 5GHz

		Emis	ssion				
Freq.	Ant.Pol.	Level(d	BuV/m)	Limit 3m(dBuV/m)		Margin(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
1301.76	V	59.93	46.32	80.82	60.82	-20.89	-14.5
1735.68	V	56.07	42.46	80.82	60.82	-24.75	-18.36
2169.60	V	54.10	40.49	80.82	60.82	-26.72	-20.33
2603.52	V	50.40	36.79	80.82	60.82	-30.42	-24.03
1301.76	Н	59.96	46.35	80.82	60.82	-20.86	-14.47
1735.68	Н	57.74	44.13	80.82	60.82	-23.08	-16.69
2169.60	Н	54.04	40.43	80.82	60.82	-26.78	-20.39
2603.52	Н	52.82	39.59	80.82	60.82	-27.62	-21.61

#### Note:

- 1. All other emissions more than 30dB below the limit.
- 2. Average=Peak Value+20log(Duty Cycle)
  Margin=Emission Level-Limit
- 3. X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



## 7 OCCUPIED BANDWIDTH

## 7.1 Applicable Standard

According to FCC Part 2.1049 and part 15.231(c)

#### 7.2 Conformance Limit

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.

#### 7.3 Test Procedure

The EUT was operating in transmit mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1% occupied bandwidth (30KHz).

Set the video bandwidth (VBW) =100KHz.

Set Span= approximately 2 to 3 times the occupied bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 99% down one side of the emission. Reset the markerdelta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 99% bandwidth of the emission.

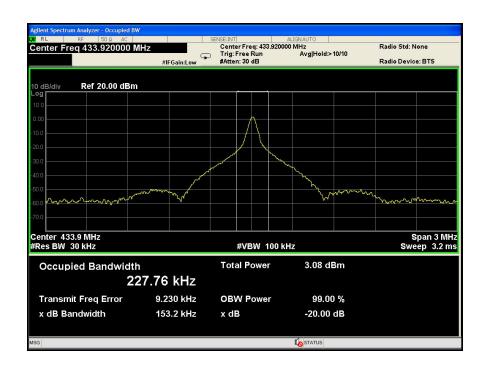
If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.

Measure and record the results in the test report.



# 7.4 Test Result

Modulation	Channel Frequency(MHz)	Measurement Bandwidth(KHz)	99%Bandwidth (KHz)	Limit(KHz)	Verdict
ASK	433.92	153.2	227.76	≤1084.8	PASS
Note: BW=0.25% of the center frequency.					





## 8 TRANSMISSION REQUIREMENT

# 8.1 Applicable Standard

According to FCC Part 15.231.

## 8.2 Conformance Limit

According to FCC 15.231a, A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

#### 8.3 Test Procedure

The following table is the setting of spectrum analyzer.

Spectrum analyzer	Setting
Attenuation	Auto
Span Frequency	0Hz
RBW	1M
VBW	1M
Detector	Peak
Trace	Max hold
Sweep Time	20S

a. The transmitter output (antenna port) was connected to the spectrum analyzer.

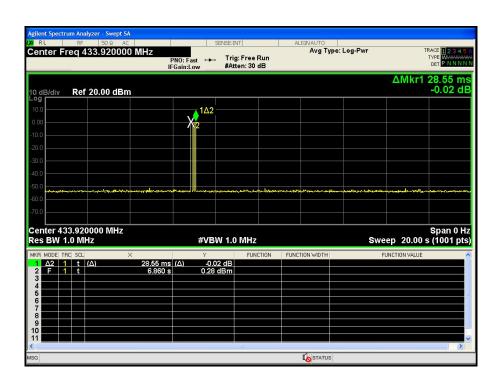
b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz, Set Detector to Peak, Trace to Max Hold. c. Set the span to 0Hz and the sweep time to 20s and record the value.





# 8.4 Test Result

Frequency(MHz)	Silent period between transmissions	Limit	Verdict
433.92	0.02855s	5 seconds	PASS







## 9 DUTY CYCLE

### 9.1 Test Procedure

Place the EUT on the table and set it in the transmitting mode.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Set centre frequency of spectrum analyzer=operating frequency.

Set the spectrum analyzer as RBW=1MHz, VBW=1MHz to obtain the "worst-case" pulse on time Repeat above procedures until all frequency measured was complete.

#### 9.2 Test Result

T on time=0.398ms\*21+0.197ms\*24=13.086 ms

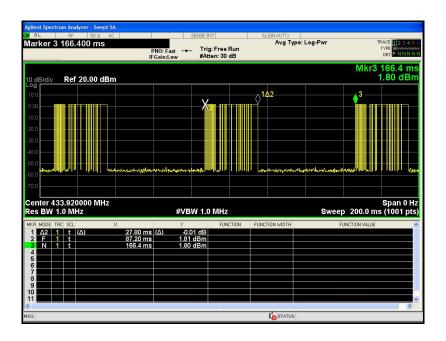
T period=166.4ms-87.2ms=79.20ms

Duty Cycle=13.086/79.20=16.52%

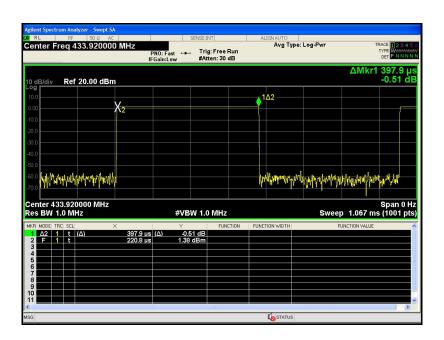
Average Correction Factor=20log(Ton/Tp)=20log(16.52/79.20)=-13.61dB

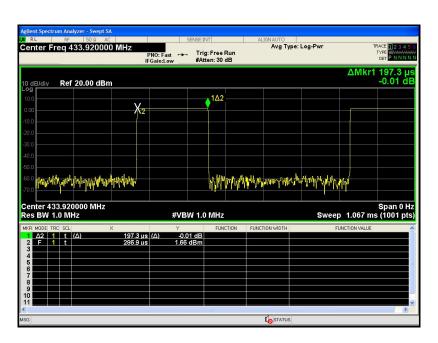
Note: The signal bandwidth was measured and less than 100KHz RBW, so PDCF is no needed.

Please see below test plots:











# 10 Antenna Application

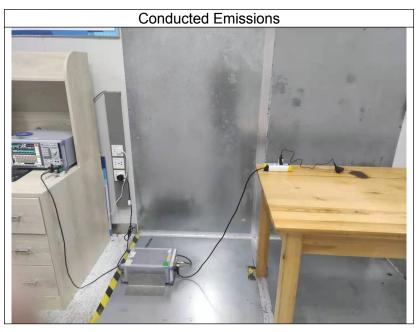
# 10.1 Antenna Requirement

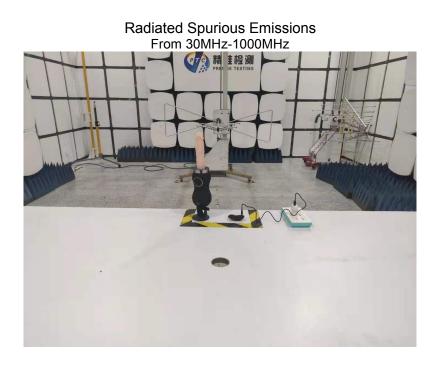
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### 10.2 Result

The EUT'S antenna, permanent attached antenna, is internal Built-in antenna. The antenna's gain is 0dBi and meets the requirement.

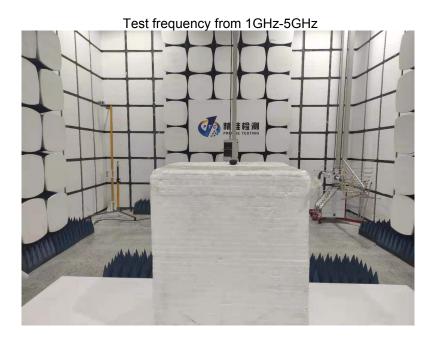






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# **12 EUT Photos**



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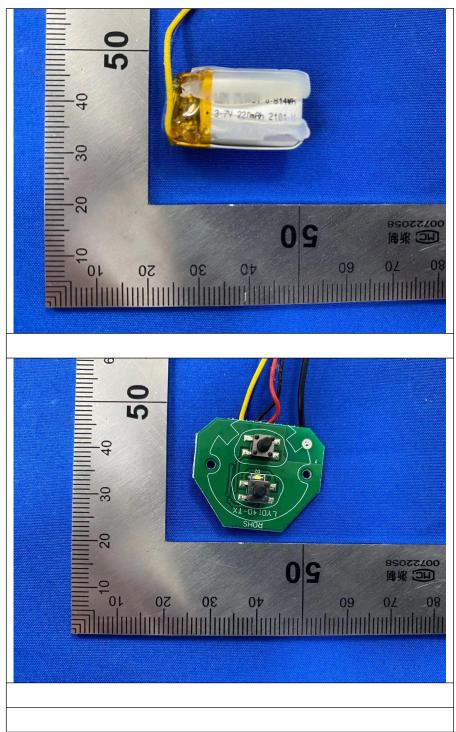




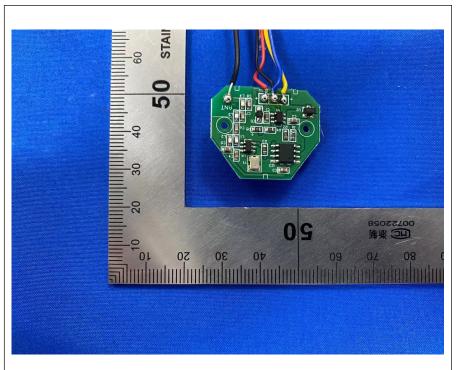


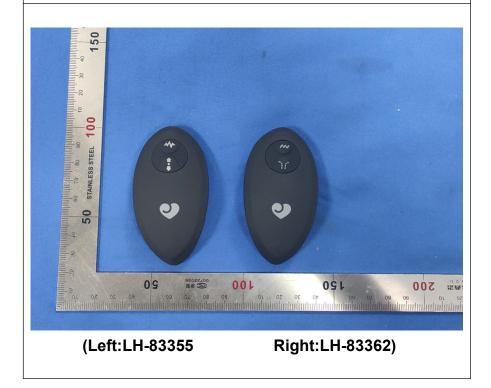












\*\*\*\*\*\*THE END REPORT\*\*\*\*\*