

# **FCC TEST REPORT**

Test report
On Behalf of
GuangZhou Chicken Run Network Technology Co,Ltd.
For
GameSir Gaming Keypad
Model No.: GameSir-Z1,GameSir-Z1s

FCC ID: 2AF9S-GSZ1

Prepared for: GuangZhou Chicken Run Network Technology Co,Ltd.

301A-1,NO.68-1,Huacui Street,Jianye Road,Tianhe District,

GuangZhouChina

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

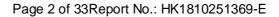
1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street,

Bao'an District, Shenzhen City, China

Date of Test: Oct. 12, 2018 ~ Oct. 25, 2018

Date of Report: Oct. 25, 2018

Report Number: HK1810251369-E





# **TEST RESULT CERTIFICATION**

Applicant's name	GuangZh	ou Chicken Run Network Technology Co,Ltd.
Address		O.68-1, Huacui Street, Jianye Road, Tianhe District,
	GuangZh	
Manufacture's Name	WUHU D	ELUX MOBILE INTERNET DEVICE CO., LTD
Address:	WUHU M	ACHINERY INDUSTRIAL PARK ANHUI,CHINA
Product description		
Trade Mark:	GAMESI	र
Product name:	GameSir	Gaming Keypad
Model and/or type reference .:	GameSir-	Z1,GameSir-Z1s
Standards	FCC Rule	es and Regulations Part 15 Subpart C Section 15.249 3.10: 2013
of the material. Shenzhen HUA	K Testing les resultind ad context.	Co., Ltd. is acknowledged as copyright owner and source Technology Co., Ltd. takes no responsibility for and willing from the reader's interpretation of the reproduced
Date (s) of performance of tests	:	Oct. 12, 2018 ~ Oct. 25, 2018
Date of Issue	:	Oct. 25, 2018
Test Result	:	Pass
Testing Engine	eer :	Gazel Di an L
		(Gary Qian)
Technical Mar	nager :	(Gary Qian) Edan Hu
		(Eden Hu)

Authorized Signatory:

Jason Zhou

(Jason Zhou)



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### 1. TEST SUMMARY

### 1.1TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST	RESULT
CONDUCTED EMISSIONS TEST	COMPLIANT
RADIATED EMISSION TEST	COMPLIANT
BAND EDGE	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	COMPLIANT
ANTENNA REQUIREMENT	COMPLIANT

### 1.2 TEST FACILITY

Test Firm : Shenzhen HUAK Testing Technology Co., Ltd.

Address 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai

Street, Bao'an District, Shenzhen City, China

### 1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2 Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42dB, k=2 Radiated emission expanded uncertainty(Above 1GHz) = 4.06dB, k=2



# 2. GENERAL INFORMATION

# 2.1GENERAL DESCRIPTION OF EUT

Equipment	GameSir Gaming Keypad			
Model Name	GameSir-Z1			
Serial No.	GameSir-Z1s			
Trade Mark	GAMESIR			
Model Difference	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: GameSir-Z1.			
FCC ID	2AF9S-GSZ1			
Antenna Type	PCB Antenna			
Antenna Gain	0dBi			
BT Operation frequency	2402-2480MHz			
Number of Channels	40CH			
Modulation Type	GFSK			
DowerSource	DC3.7V From Battery or DC 5V from adapter with			
PowerSource	AC 120V/60Hz			
Power Rating	DC3.7V From Battery or DC 5V from adapter with			
rower Kaung	AC 120V/60Hz			



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# 2.2 Carrier Frequency of Channels

Channel List										
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)			
01	2402	11	2422	21	2442	31	2462			
02	2404	12	2424	22	2444	32	2464			
03	2406	13	2426	23	2446	33	2466			
04	2408	14	2428	24	2448	34	2468			
05	2410	15	2430	25	2450	35	2470			
06	2412	16	2432	26	2452	36	2472			
07	2414	17	2434	27	2454	37	2474			
08	2416	18	2436	28	2456	38	2476			
09	2418	19	2438	29	2458	39	2478			
10	2420	20	2440	30	2460	40	2480			

# 2.3 Operation of EUT during testing

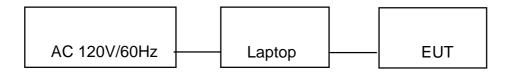
Operating Mode

The mode is used: Transmitting mode

Low Channel: 2402MHz Middle Channel: 2440MHz High Channel: 2480MHz

## 2.4DESCRIPTION OF TEST SETUP

Operation of EUT during Conducted testing:



Operation of EUT duringRadiation and Above1GHz Radiation testing:

EUT

Adapter information

Model: HW-051000CHQ

Input: 100-240V~, 50/60Hz, 0.5A

Output: 5VDC, 1A

Laptop information

Model:HP109

Input:DC 24V, 2A



# 2.5MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 28, 2017	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 28, 2017	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 28, 2017	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2017	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 28, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 28, 2017	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 28, 2017	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Dec. 28, 2017	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 28, 2017	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 28, 2017	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	Dec. 28, 2017	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Dec. 28, 2017	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2017	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Dec. 28, 2017	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Dec. 28, 2017	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 28, 2017	3 Year



### 3. CONDUCTED EMISSIONS TEST

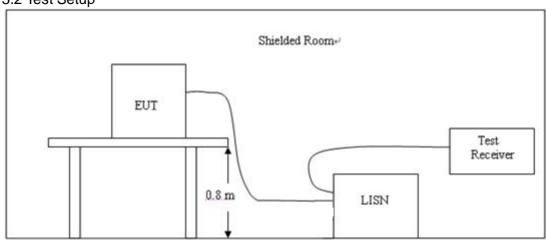
## 3.1 Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

-	N	Maximum RF Line Voltage (dBμV)						
Frequency (MHz)	CLA	SS A	(	CLASS B				
(11112)	Q.P.	Ave.	Q.P.	Ave.				
0.15 - 0.50	79	66	66-56*	56-46*				
0.50 - 5.00	73	60	56	46				
5.00 - 30.0	73	60	60	50				

<sup>\*</sup> Decreasing linearly with the logarithm of the frequency
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

### 3.2 Test Setup



## 3.3 Test Procedure

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user'smanual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed onthe ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4,If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hzpower through a Line Impedance Stabilization Network (LISN) which supplied power source and wasgrounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUTusing a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has twomonitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

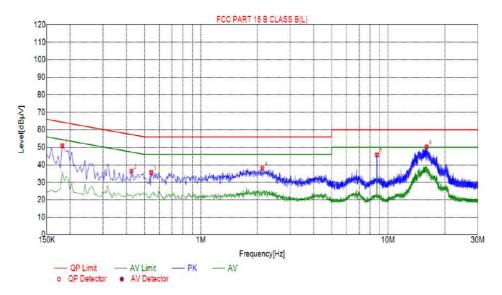
### 3.4 Test Result

**Pass** 



# Test Specification: Line

# **Test Graph**



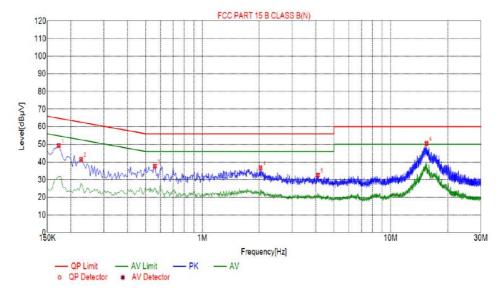
NO.	Freq.	Level	Factor	Limit	Margin	Detector
	[MHz]	[dBµV]	[dB]	[dBµV]	[dB]	Detector
1	0.1815	50.96	10.06	64.42	13.46	PK
2	0.4245	36.47	10.04	57.36	20.89	PK
3	0.5415	35.62	10.05	56.00	20.38	PK
4	2.1345	38.11	10.16	56.00	17.89	PK
5	8.7315	45.77	10.12	60.00	14.23	PK
6	16.0710	50.31	9.98	60.00	9.69	PK

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level



Test Specification: Neutral

Test Graph



Suspected List									
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin (dB)	Detector			
1	0.1725	49.35	10.04	64.84	15.49	PK			
2	0.2265	41.51	10.03	62.58	21.07	PK			
3	0.5595	37.68	10.06	56.00	18.32	PK			
4	2.0355	36.71	10.15	56.00	19.29	PK			
5	4.1100	32.65	10.25	56.00	23.35	PK			
6	15.4995	50.54	9.97	60.00	9.46	PK			

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level



### **4 RADIATED EMISSION TEST**

### 4.1 Radiation Limit

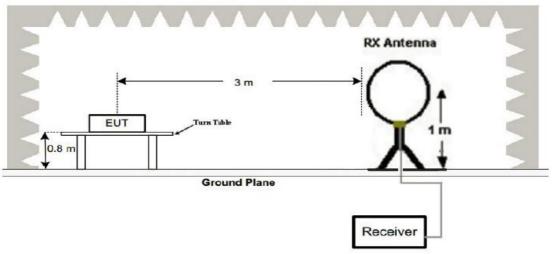
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength ofradiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Distance	Radiated	Radiated
(MHz)	(Meters)	(dBµV/m)	(μV/m)
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	3	54	500

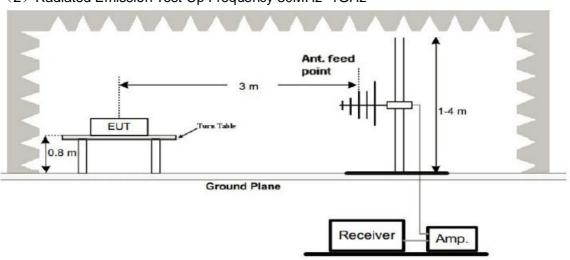
For intentional device, according to § 15.209(a), the general requirement of field strength of radiatedemissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

# 4.2 Test Setup

# (1) Radiated Emission Test-Up Frequency Below 30MHz

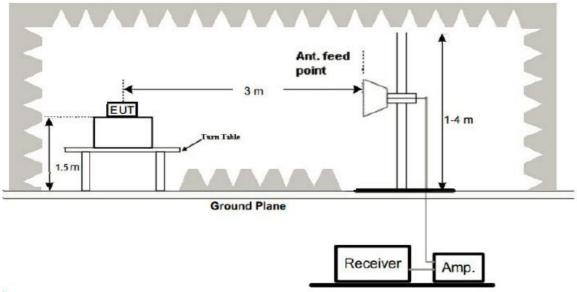


# (2) Radiated Emission Test-Up Frequency 30MHz~1GHz





## (3) Radiated Emission Test-Up Frequency Above 1GHz



### 4.3 Test Procedure

- Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane.
   And above 1GHz measurement EUT was placed on low permittivity and low tangent turn 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 varied from 1m to 4m to find out the highestemissions.
- 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 bothhorizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

### Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

### 4.4 Test Result

#### **PASS**

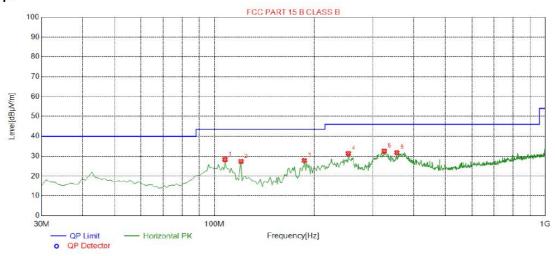
All the test modes completed for test. The worst case of Radiated Emission is CH 2402; the test data of this mode was reported.



# Below 1GHz Test Results:

Antenna polarity: H

# Test Graph



# **Suspected List**

Suspected List								
Suspi	.000e							
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Polarity
110.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	1 Olarity
1	107.600	28.33	-15.42	43.50	15.17	100	251	Horizontal
2	120.210	27.41	-17.13	43.50	16.09	100	80	Horizontal
3	187.140	27.84	-16.25	43.50	15.66	100	308	Horizontal
4	254.070	31.38	-13.44	46.00	14.62	100	101	Horizontal
5	325.850	32.60	-11.80	46.00	13.40	100	200	Horizontal
6	355.920	31.81	-11.49	46.00	14.19	100	230	Horizontal

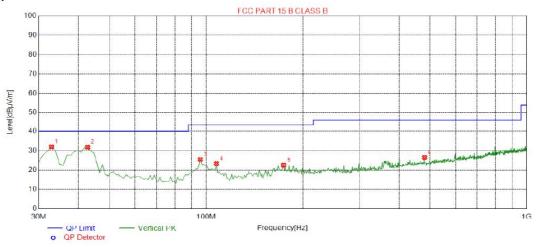
# Final Data List

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level



Antenna polarity: V

## **Test Graph**



### **Suspected List**

Suspected List									
NO	Freq.	Level	Factor	Limit	Margin	Height	Angle	Dolovitus	
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	32.9100	31.98	-16.23	40.00	8.02	100	276	Vertical	
2	42.6100	31.78	-14.08	40.00	8.22	100	0	Vertical	
3	95.9600	25.46	-16.07	43.50	18.04	100	176	Vertical	
4	107.600	23.24	-15.42	43.50	20.26	100	168	Vertical	
5	174.530	22.47	-17.10	43.50	21.03	100	166	Vertical	
6	480.080	26.50	-8.45	46.00	19.50	100	26	Vertical	

#### **Final Data List**

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

### Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHzwas verified, and no any emission was found except system noise floor.
- (2) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.



# Above 1 GHz Test Results: CH Low (2402MHz)

# Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	
2402	109.32	-5.84	103.48	114	-10.52	peak	
2402	85.43	-5.84	79.59	94	-14.41	AVG	
4804	59.61	-3.64	55.97	74	-18.03	peak	
4804	48.32	-3.64	44.68	54	-9.32	AVG	
7206	57.91	-0.95	56.96	74	-17.04	peak	
7206	41.24	-0.95	40.29	54	-13.71	AVG	
Remark: Facto	Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.						

# Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	]
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detecto Type
2402	108.46	-5.84	102.62	114	-11.38	peak
2402	84.32	-5.84	78.48	94	-15.52	AVG
4804	59.18	-3.64	55.54	74	-18.46	peak
4804	41.65	-3.64	38.01	54	-15.99	AVG
7206	53.12	-0.95	52.17	74	-21.83	peak
7206	39.75	-0.95	38.8	54	-15.2	AVG



# CH Middle (2440MHz)

# Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	<b>5</b>	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	
2440	108.93	-5.71	103.22	114	-10.78	peak	
2440	83.16	-5.71	77.45	94	-16.55	AVG	
4880	58.46	-3.51	54.95	74	-19.05	peak	
4880	45.72	-3.51	42.21	54	-11.79	AVG	
7320	58.37	-0.82	57.55	74	-16.45	peak	
7320	39.78	-0.82	38.96	54	-15.04	AVG	
Remark: Facto	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

# Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	_
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2440	110.35	-5.71	104.64	114	-9.36	peak
2440	86.34	-5.71	80.63	94	-13.37	AVG
4880	58.76	-3.51	55.25	74	-18.75	peak
4880	43.26	-3.51	39.75	54	-14.25	AVG
7320	57.34	-0.82	56.52	74	-17.48	peak
7320	40.19	-0.82	39.37	54	-14.63	AVG
Remark: Facto	emark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.					



## CH High (2480MHz)

### Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastas
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2480	111.28	-5.65	105.63	114	-8.37	peak
2480	86.19	-5.65	80.54	94	-13.46	AVG
4960	57.31	-3.43	53.88	74	-20.12	peak
4960	45.17	-3.43	41.74	54	-12.26	AVG
7440	59.31	-0.75	58.56	74	-15.44	peak
7440	40.86	-0.75	40.11	54	-13.89	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

### Vertical:

V Ortioan.						
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2480	110.23	-5.65	104.58	114	-9.42	peak
2480	86.41	-5.65	80.76	94	-13.24	AVG
4960	58.34	-3.43	54.91	74	-19.09	peak
4960	43.19	-3.43	39.76	54	-14.24	AVG
7440	56.75	-0.75	56	74	-18	peak
7440	40.12	-0.75	39.37	54	-14.63	AVG
I						

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

#### Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz •
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHzand video bandwidth is 3MHz for peak measurement with peak detectorat frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHzand video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7)All modes of operation were investigated and the worst-case emissions are reported.



#### 5.1 Limits

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

### 5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSIC63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT issituated in three orthogonal planes (if appropriate), adjusting the measurement antenna height andpolarization etc. Set RBW to 100KHz and VBM to 300KHz to measure the peak field strength and setRBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 100 KHz and VBW to 300 KHz, to measure the conducted peak band edge.

### 5.3 Test Result

#### **PASS**

Radiated Band Edge Test:

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dB µV/m)	(dBµV/m)	(dB)	Ty pe
2310.00	53.94	-5.81	48.13	74	-25.87	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	52.18	-5.84	46.34	74	-27.66	peak
2390.00	/	-5.84	/	54	/	AVG
2400.00	55.17	-5.95	49.22	74	-24.78	peak
2400.00	/	-5.95	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

## Vertical:

v Ci ticai.						
Frequency	M eter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dB µV/m)	(dBµV/m)	(dB)	Ty pe
2310.00	54.62	-5.81	48.81	74	-25.19	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	53.19	-5.84	47.35	74	-26.65	peak
2390.00	/	-5.84	/	54	/	AVG
2400.00	54.56	-5.95	48.61	74	-25.39	peak
2400.00	/	-5.95	/	54	/	AVG
	•	•	•			

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.



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Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2483.50	55.92	-5.81	50.11	74	-23.89	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	53.47	-6.06	47.41	74	-26.59	peak
2500.00	/	-6.06	/	54	/	AVG
	-					

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

# Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	55.34	-5.81	49.53	74	-24.47	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	53.67	-6.06	47.61	74	-26.39	peak
2500.00	/	-6.06	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



### 6 OCCUPIED BANDWIDTH MEASUREMENT

# 6.1 Test Setup

Same as Radiated Emission Measurement

### 6.2 Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation.
- 3. Based on ANSI C63.10 section 6.9.2: RBW= 30KHz. VBW= 100 KHz, Span=4MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

# 6.3 Measurement Equipment Used

Same as Radiated Emission Measurement

### 6.4 Test Result

### **PASS**

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.127	PASS
2440 MHz	1.128	PASS
2480 MHz	1.130	PASS

## CH: 2402MHz





### CH: 2440MHz



### CH: 2480MHz





### 7 ANTENNA REQUIREMENT

### **Standard Applicable**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed toensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.249, 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.

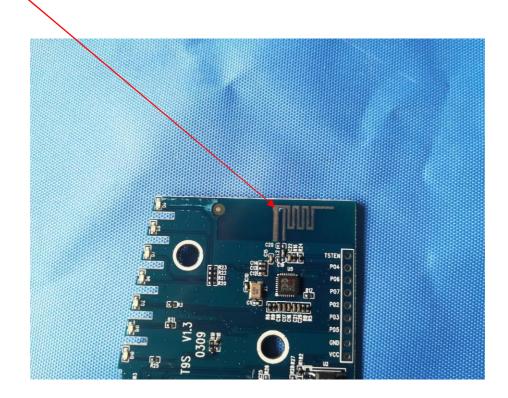
### Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of astandard antenna jack or electrical connector is prohibited. Further, this requirement does not apply tointentional radiators that must be professionally installed.

### **Antenna Connected Construction**

The antenna used in this product is a Internal Antenna, The directional gains of antenna used for transmitting is 0dBi.

### **ANTENNA**



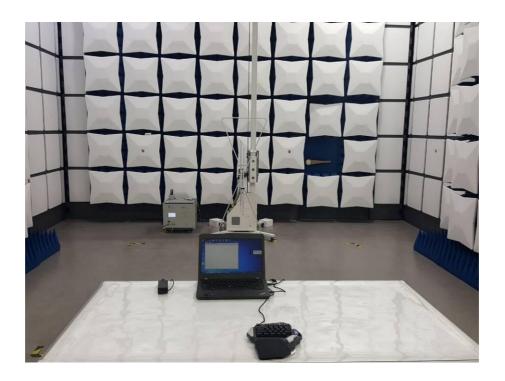


# 8 PHOTOGRAPH OF TEST

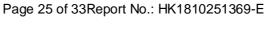
# Conducted Emission













EUT **Photo 1** 



Photo 2





Photo 3



Photo 4





Photo 5



Photo 6





Photo 7



Photo 8





Photo 9

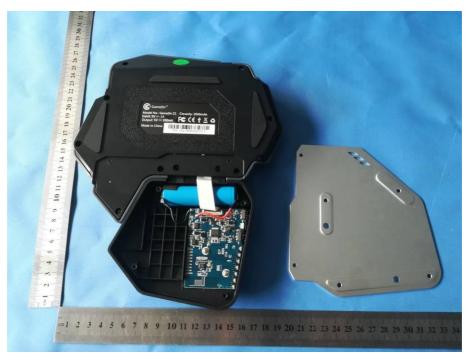


Photo 10

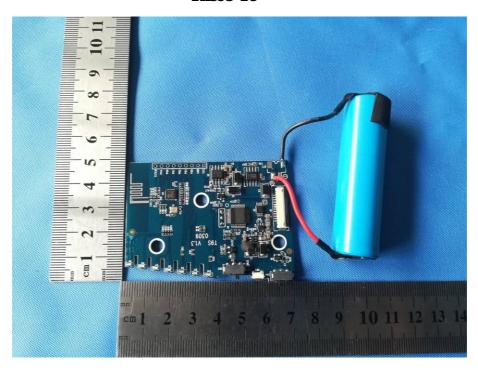




Photo 11

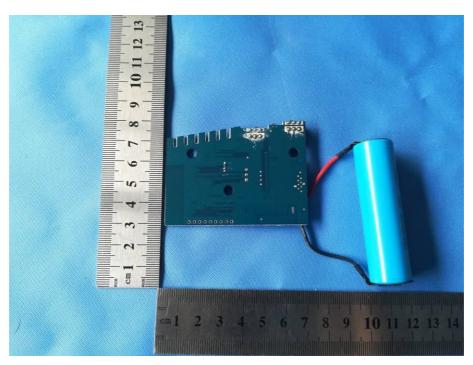


Photo 12

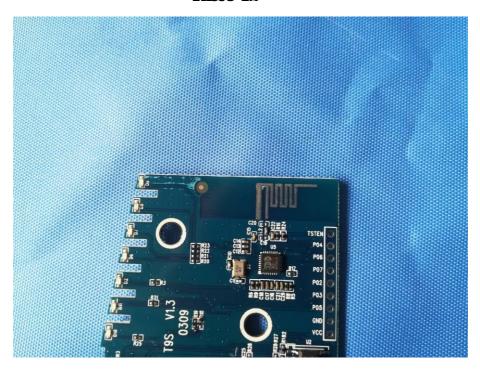




Photo 13



Photo 14

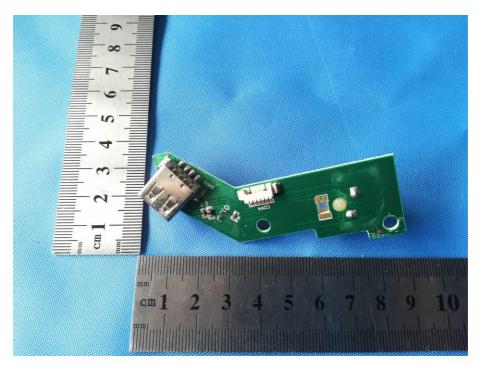




Photo 15

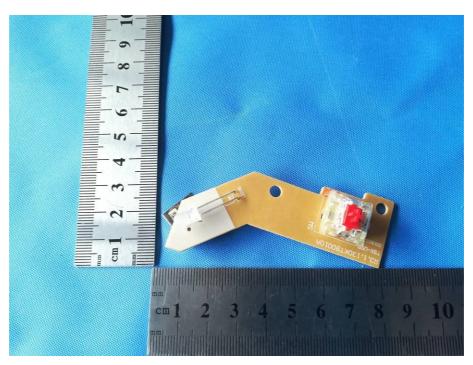
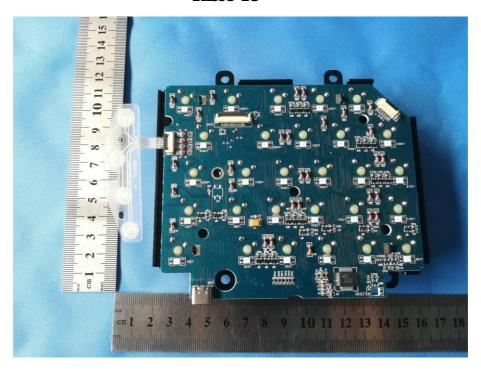


Photo 16









-- The end of report--