

FCC 47 CFR PART 15 SUBPART C CERTIFICATION TEST REPORT

For

Control

MODEL No.: KZQ-8YKC-K

FCC ID: 2ARQD-KZQ8YKCK

Trade Mark: N/A

REPORT NO .: ES181009013E

ISSUE DATE: November 13, 2018

Prepared for

L&S Deutschland GmbH

Daimlerring 34, Roedinghausen 32289, Germany

Prepared by

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Report No.: ES181009013E Ver.1.0

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1 TEST RESULT CERTIFICATION

Applicant: L&S Deutschland GmbH

Daimlerring 34, Roedinghausen 32289, Germany

Manufacturer: Self Electronics Co.,Ltd

No.1345, Juxian Road, Hi-Tech Park, Ningbo, 315103, Zhejiang, China

EUT Description: Control

Model Number: KZQ-8YKC-K

File Number: ES181009013E

Date of Test: October 9, 2018 to November 12, 2018

Measurement Procedure Used:

APPLICABLE STANDARDS				
STANDARD	TEST RESULT			
FCC 47 CFR Part 2, Subpart J	PASS			
FCC 47 CFR Part 15, Subpart C	FASS			

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.249

The test results of this report relate only to the tested sample identified in this report.

Date of Test :	October 9, 2018 to November 12, 2018
Prepared by :	Dorts Su
	Doris Su /Editor
Reviewer :	Foe Xra 5 SHENZHEN, CO
	Joe Xia/Editor
Approve & Authorized Signer :	* ESTING*
	Lisa Wang/Manager



2 EUT TECHNICAL DESCRIPTION

Characteristics	Description
Modulation:	MSK
Operating Frequency Range(s):	2436MHz
Number of Channels:	1 channel
Antenna Type :	PCB Antenna
Antenna Gain:	0dBi
	☑DC supply: DC 3V
Power supply:	☐Adapter supply: Model: INPUT: OUTPUT:

Note: for more details, please refer to the User's manual of the EUT.



3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.207	Conducted Emission	N/A	
15.209	Radiated Emission	PASS	
15.249	Radiated Spurious Emission	PASS	
15.249	Band edge test	PASS	
15.249	20dB Bandwidth	PASS	

NOTE1: N/A (Not Applicable)

NOTE2: The report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2ARQD-KZQ8YKCK filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules.



4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards: FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C

4.2 MEASUREMENT EQUIPMENT USED

4.2.1 Radiated Emission Test Equipment

EQUIPMENT	MFR	MODEL	SERIAL	LAST CAL.	DUE CAL.
TYPE		NUMBER	NUMBER		
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/20/2018	05/19/2019
Pre-Amplifier	HP	8447D	2944A07999	05/19/2018	05/18/2019
Bilog Antenna	Schwarzbeck	VULB9163	142	05/19/2018	05/18/2019
Loop Antenna	ARA	PLA-1030/B	1029	05/20/2018	05/19/2019
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	05/20/2018	05/19/2019
Horn Antenna	Schwarzbeck	BBHA 9120	D143	05/20/2018	05/19/2019
Cable	Schwarzbeck	AK9513	ACRX1	05/20/2018	05/19/2019
Cable	Rosenberger	N/A	FP2RX2	05/20/2018	05/19/2019
Cable	Schwarzbeck	AK9513	CRPX1	05/20/2018	05/19/2019
Cable	Schwarzbeck	AK9513	CRRX2	05/20/2018	05/19/2019

4.2.2 Radio Frequency Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	DUE CAL.
Spectrum Analyzer	Agilent	E4407B	88156318	05/20/2018	05/19/2019
Signal Analyzer	Agilent	N9010A	My53470879	05/20/2018	05/19/2019
Power meter	Anritsu	ML2495A	0824006	05/20/2018	05/19/2019
Power sensor	Anritsu	MA2411B	0738172	05/20/2018	05/19/2019

Remark: Each piece of equipment is scheduled for calibration once a year.

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4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

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.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those modulation MSK were used for all test.

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

Frequency and Channel list:

Channel	Frequency (MHz)
1	2436.26



5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

Bldg 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS, 2016.10.24

The certificate is valid until 2022.10.28

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L2291.

Accredited by TUV Rheinland Shenzhen 2016.5.19

The Laboratory has been assessed according to the requirements

ISO/IEC 17025.

Accredited by FCC, August 06, 2018 The certificate is valid until August 07, 2020

Designation Number: CN1204

Test Firm Registration Number: 882943

Accredited by Industry Canada, November 24, 2015 The Certificate Registration Number is 4480A.

The Certificate Registration Number is 44007

Accredited by A2LA, August 08, 2018
The certificate is valid until August 31, 2020

The Certificate Number is 4321.01.

Name of Firm : EMTEK (SHENZHEN) CO., LTD.

Site Location : Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen,

Guangdong, China



6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

apparatus.	
Parameter	Uncertainty
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0dB
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Power Density	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5℃
Humidity	±3%

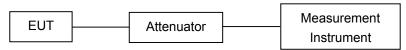
Measurement Uncertainty for a level of Confidence of 95%



7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP 1

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

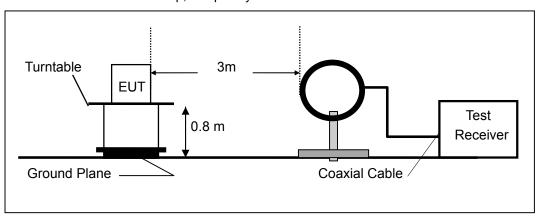
Above 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

(Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

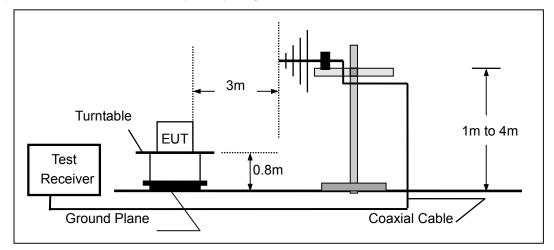
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



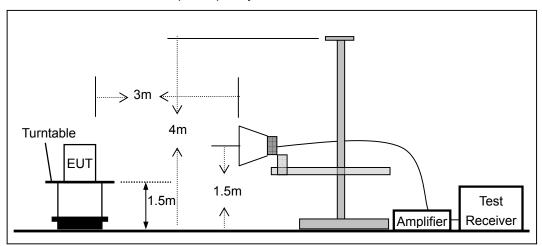
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(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



7.3 SUPPORT EQUIPMENT

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



8 TEST REQUIREMENTS

8.1 BANDWIDTH TEST

8.1.1 Applicable Standard

According to FCC Part 15.249

8.1.2 Conformance Limit

N/A

8.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.1.4 Test Procedure

The EUT was operating in 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 = 100 kHz.

Set the video bandwidth (VBW) =300 kHz.

Set Span=2 times OBW

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

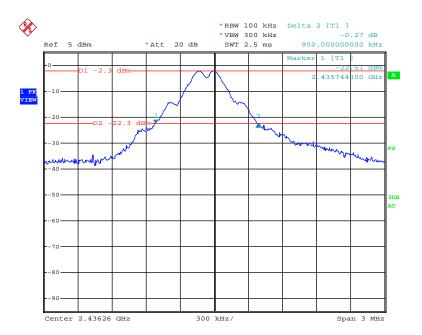
Measure and record the results in the test report.

8.1.5 Test Results

Temperature :	21℃	Test Date :	Nov 1, 2018
Humidity:	50 %	Test By:	King Kong

Operation	Channel	Channel	Measurement	Verdict
Mode	Number	Frequency (MHz)	Bandwidth (MHz)	
TX	1	2436.26	0.9	PASS





Date: 1.NOV.2018 08:47:42



8.2 RADIATED SPURIOUS EMISSION

8.2.1 Applicable Standard

According to FCC Part 15.249 and 15.209

8.2.2 Conformance Limit

According to FCC Part 15.249: radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part15.205, Restricted bands

According to 1 CO 1 dit 13.			011
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	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	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	(2)
13.36-13.41			

According to FCC Part15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	2400/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor. for the frequency ranges below 30 MHz, a narrower RBW is used for

for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.



Field strength of fundamental and Field strength of harmonics Limit:

	<u>U</u>			
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)		
902-928 MHz	50(94 dBV/m)	500(54 dBV/m)		
2400-2483.5 MHz	50(94 dBV/m)	500(54 dBV/m)		
5725-5875 MHz	50(94 dBV/m)	500(54 dBV/m)		
24.0-24.25 GHz	250(108 dBV/m)	2500(68 dBV/m)		

8.2.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

8.2.4 **Test Procedure**

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold

For Below 1GHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz for

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

Trace = max hold

For Below 30MHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured RBW = 9kHz

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

Trace = max hold

For Below 150KHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 200Hz

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT,



measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data. Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

8.2.5 Test Results

Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature: 21°C Test Date: Nov 10, 2018
Humidity: 51 % Test By: King Kong
Test mode: TX Mode

Freq.	Ant.Pol.	Emis Level(d	ssion BuV/m)	Limit 3m	(dBuV/m)	Over(dB)		
(MHz)	X/Y/Z	PK ` AV		PK	AV	PK	AV	

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



Spurious Emission Above 1GHz (1GHz to 25GHz)

Nov 8, 2018 Temperature: **24**℃ Test Date: 53 % MSK King Kong 2436.26MHz Humidity: Test By: Test mode: Frequency:

Freq.	Ant.Po I.	Emission Lev	/el(dBuV/m)	I(dBuV/m) Limit 3m(dBuV/m)			Over(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV		
9704.00	V	52.69	41.32	74.00	54.00	-21.31	-12.68		
10860.00	V	54.97	42.12	74.00	54.00	-19.03	-11.88		
12237.00	V	55.77	40.21	74.00	54.00	-18.23	-13.79		
				1		1	1		
				1		1	1		
2462.00	Н	42.08	38.67	74.00	54.00	-31.92	-15.33		
8327.00	Н	51.18	39.35	74.00	54.00	-22.82	-14.65		
11608.00	Н	56.61	40.12	74.00	54.00	-17.39	-13.88		

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).

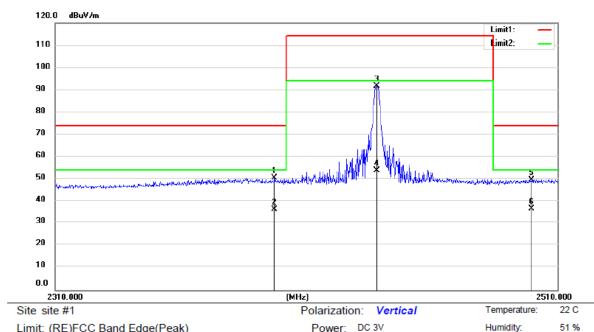
- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



Band Edge Test

MSK Test Model Channel 1: 2436.26MHz

Polarity: V Test By: King Kong



Limit: (RE)FCC Band Edge(Peak)

Mode:TX

Power: DC 3V Humidity: Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2395.400	39.45	11.01	50.46	74.00	-23.54	peak			
2		2395.400	25.58	11.01	36.59	54.00	-17.41	AVG			
3		2436.200	80.82	10.96	91.78	114.00	-22.22	peak			
4		2436.200	42.90	10.96	53.86	94.00	-40.14	AVG			
5		2499.400	38.50	11.29	49.79	74.00	-24.21	peak			
6	*	2499.400	25.49	11.29	36.78	54.00	-17.22	AVG			

^{*:}Maximum data x:Over limit !:over margin Operator: KK



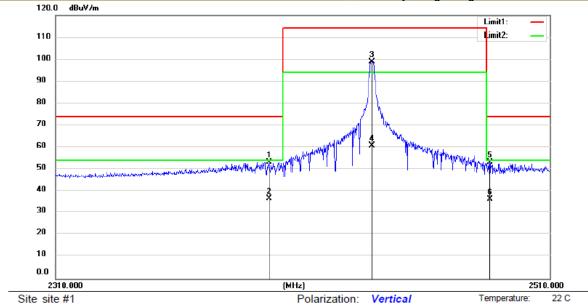
Humidity:

51 %

Test Model

MSK
Channel 1: 2436.26MHz

Polarity: H
Test By: King Kong



Limit: (RE)FCC Band Edge(Peak)

Mode:TX Note:

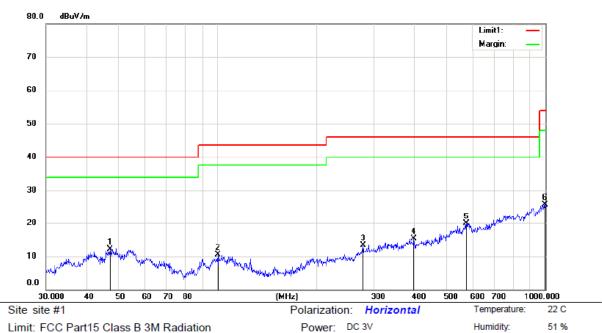
No.	Mi	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		23	94.600	42.21	11.03	53.24	74.00	-20.76	peak			
2		23	94.600	25.61	11.03	36.64	54.00	-17.36	AVG			
3	*	24	36.200	88.03	10.96	98.99	114.00	-15.01	peak			
4		24	36.200	49.83	10.96	60.79	94.00	-33.21	AVG			
5		24	85.000	42.30	11.03	53.33	74.00	-20.67	peak			
6		24	85.000	25.42	11.03	36.45	54.00	-17.55	AVG			

Power: DC 3V

^{*:}Maximum data x:Over limit !:over margin Operator: KK



Spurious Emission below 1GHz (30MHz to 1GHz)



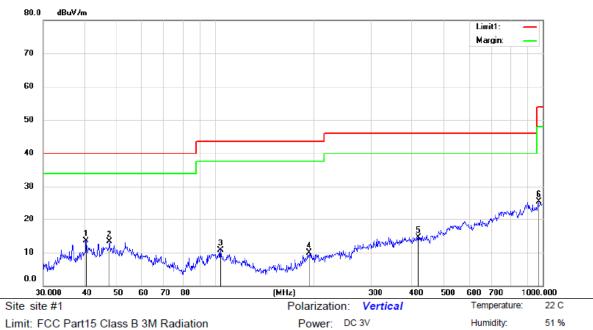
Limit: FCC Part15 Class B 3M Radiation

Mode:TX Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		47.1600	31.90	-19.70	12.20	40.00	-27.80	QP			
2		100.5806	31.44	-20.94	10.50	43.50	-33.00	QP			
3		278.0668	32.68	-19.38	13.30	46.00	-32.70	QP			
4		397.6334	32.76	-17.36	15.40	46.00	-30.60	QP			
5	*	574.6258	31.81	-11.81	20.00	46.00	-26.00	QP			
6		996.4996	31.11	-5.31	25.80	54.00	-28.20	QP			

^{*:}Maximum data x:Over limit !:over margin Operator: KK





Limit: FCC Part15 Class B 3M Radiation

Mode:TX Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	40.5591	34.16	-20.56	13.60	40.00	-26.40	QP			
2		47.8260	33.16	-19.86	13.30	40.00	-26.70	QP			
3		104.1701	32.00	-21.20	10.80	43.50	-32.70	QP			
4		194.4534	31.63	-21.73	9.90	43.50	-33.60	QP			
5		417.6411	31.24	-16.64	14.60	46.00	-31.40	QP			
6		972.3374	30.76	-5.26	25.50	54.00	-28.50	QP			

^{*:}Maximum data Operator: KK x:Over limit !:over margin



8.3 ANTENNA APPLICATION

8.3.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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.

8.3.2 Result

The EUT's antenna integrated on PCB, The antenna's gain is 0 dBi and meets the requirement