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Report Template Version: V03 Report Template Revision Date: Mar.1st, 2017

# **Test Report**

Report No.: CQASZ20210100005EX-01

**Applicant:** ShenZhen ZhongKeRui Electronics CO ., LTD.

Address of Applicant: 620, 6/F, TaiYangNeng GuiGu Building, Yunfeng road, Longhua, Shenzhen

518109, China

Manufacturer: ShenZhen ZhongKeRui Electronics CO., LTD.

Address of 620, 6/F, TaiYangNeng GuiGu Building, Yunfeng road, Longhua, Shenzhen

Manufacturer: 518109, China

**Equipment Under Test (EUT):** 

**Product:** 

PR2400 bike headlight

**All Model:** PR2400, PR1800, PR2000, PR2600, PR3000, PR3500, PR4000

Test Model No.: PR2400

Brand Name: RAVEMEN

FCC ID: 2AYUF-PR2N

**Standards:** 47 CFR Part 15, Subpart C Section 15.247

**Date of Test:** 2021-01-13 to 2021-01-29

Date of Issue: 2021-02-22
Test Result: PASS\*

Tested By:

(Jun Li)

Reviewed By:

(Ares Liu)

Approved By: Sheek, Luo

( Sheek Luo)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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## 1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210100005EX-01	Rev.01	Initial report	2021-02-22



## 2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS





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## 4 General Information

#### 4.1 Client Information

Applicant:	ShenZhen ZhongKeRui Electronics CO ., LTD.	
Address of Applicant:	nt: 620, 6/F, TaiYangNeng GuiGu Building, Yunfeng road, Longhua, Shenzhen 518109, China	
Manufacturer:	ShenZhen ZhongKeRui Electronics CO ., LTD.	
Address of Manufacturer:	620, 6/F, TaiYangNeng GuiGu Building, Yunfeng road, Longhua, Shenzhen 518109, China	

## 4.2 General Description of EUT

Product Name:	PR2400 bike headlight
Test Model No.:	PR2400
Trade Mark:	RAVEMEN
Hardware Version:	V1.0
Software Version:	V1.21.2
Operation Frequency:	2402-2480MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps(Test software see page 6)
Number of Channel:	40
Product Type:	☐ Mobile ☐ Portable ☒ Fix Location
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
EUT Power Supply:	Battery: DC 3.7V

Note: Please refer to the instruction manual for details.

There are many models here, but only tested: PR2400, Their electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.



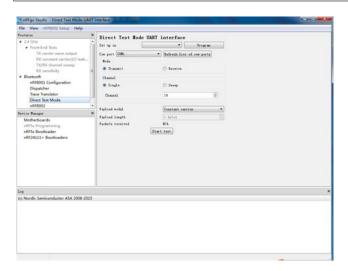
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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Fraguenav	
Channel	Frequency	
The lowest channel (CH0)	2402MHz	
The middle channel (CH19)	2440MHz	
The highest channel (CH39)	2480MHz	







#### 4.3 Test Environment

Operating Environment	:
Conducted Emission	
Temperature:	23 °C
Humidity:	51 % RH
Atmospheric Pressure:	992 mbar
Radiated Emission	
Temperature:	25.5 °C
Humidity:	53 % RH
Atmospheric Pressure:	992 mbar
RF item test (RF test re	pom)
Temperature:	27.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	992 mbar
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

## 4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
PC	Lenovo	ThinkPad E450C	Provide by lab	FCCID
AC/DC Adapter	Lenovo	ADLX65NLC3A	Provide by lab	FCC SDOC





#### 4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10 <sup>-8</sup>	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

<sup>(1)</sup>This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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#### 4.6 Test Location

#### Shenzhen Huaxia Testing Technology Co., Ltd,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

#### 4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: IC Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

#### • A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

#### • FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

#### 4.8 Deviation from Standards

None.

#### 4.9 Other Information Requested by the Customer

None.



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## 4.10 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2020/09/22	2021/09/21
Spectrum analyzer	R&S	FSU26	CQA-038	2020/10/24	2021/10/23
Spectrum analyzer	keysight	N9020A	CQA-105	2020/10/24	2021/10/23
		AFS4-00010300-18-10P-			
Preamplifier	MITEQ	4	CQA-035	2020/09/22	2021/09/21
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2020/10/29	2021/10/28
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2020/10/24	2021/10/23
Bilog Antenna	R&S	HL562	CQA-011	2020/09/22	2021/09/21
Horn Antenna	R&S	HF906	CQA-012	2020/09/22	2021/09/21
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2020/09/22	2021/09/21
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2020/09/22	2021/09/21
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2020/09/22	2021/09/21
Antenna Connector	CQA	RFC-01	CQA-080	2020/09/22	2021/09/21
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2020/09/22	2021/09/21
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2020/09/22	2021/09/21
EMI Test Receiver	R&S	ESPI3	CQA-013	2020/09/22	2021/09/21
LISN	R&S	ENV216	CQA-003	2020/11/01	2021/10/30
Coaxial cable	CQA	N/A	CQA-C009	2020/09/22	2021/09/21

#### Note:

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.



#### 5 Test results and Measurement Data

#### 5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

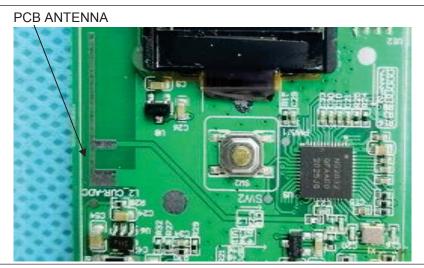
15.203 requirement:

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, 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**EUT Antenna:** 



The antenna is integral antenna. The best case gain of the antenna is 0dBi.



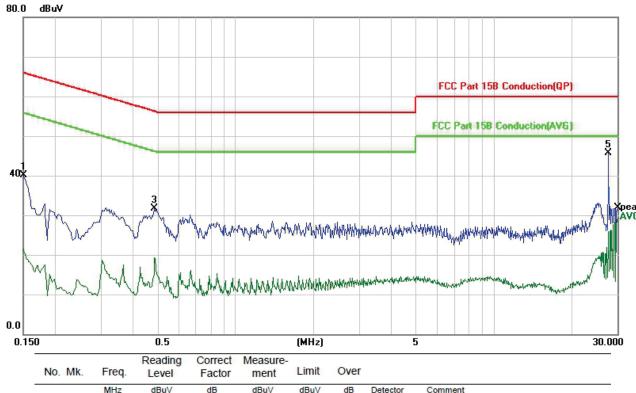


#### 5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range: Limit:					
LIIIIIL.	Frequency range (MHz)	Limit (d	,		
		Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
Test Procedure:	* Decreases with the logarithm	· · ·	dout al la blalded		
rest riocedure.	The mains terminal disturb room.  2) The EUT was connected.				
	<ol> <li>The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between</li> </ol>				
	<ul><li>and associated equipment was at least 0.8 m from the LISN 2.</li><li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to</li></ul>				
Toot Cotup:	ANSI C63.10: 2013 on con	iducted measurement.			
Test Setup:	Shielding Room  EUT AE  AC Mains  LISN1	_	Fest Receiver		
Test Mode:	When charging, the device cannot transmitting				
Test Results:	Pass				
	1				

#### **Measurement Data**



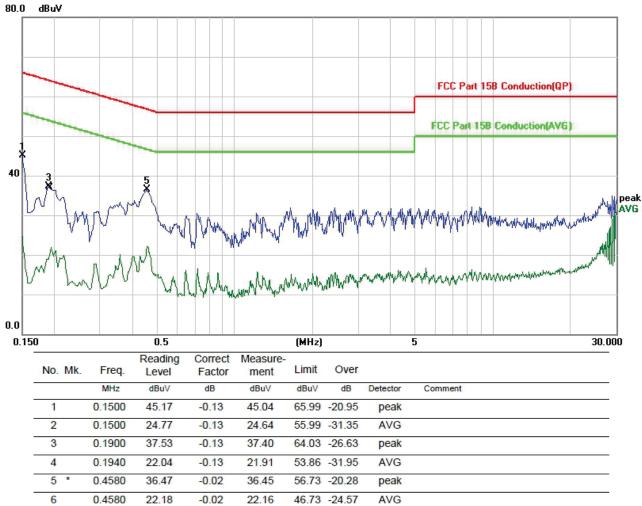


	No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
			MHz	dBu∀	dB	dBu∀	dBuV	dB	Detector	Comment
	1		0.1500	40.33	-0.13	40.20	65.99	-25.79	peak	
_	2		0.1500	21.71	-0.13	21.58	55.99	-34.41	AVG	
	3		0.4860	31.81	-0.03	31.78	56.24	-24.46	peak	
	4		0.4860	19.34	-0.03	19.31	46.24	-26.93	AVG	
	5	*	27.8420	46.18	-0.38	45.80	60.00	-14.20	peak	
	6		30.0000	29.89	-0.41	29.48	50.00	-20.52	AVG	
_										

#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.

#### Neutral Line:



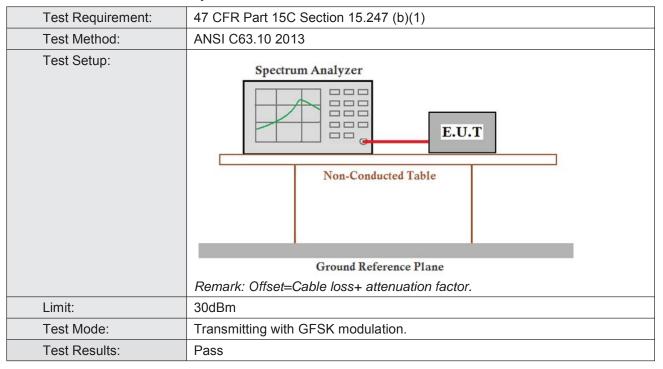
#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



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#### 5.3 Conducted Peak Output Power

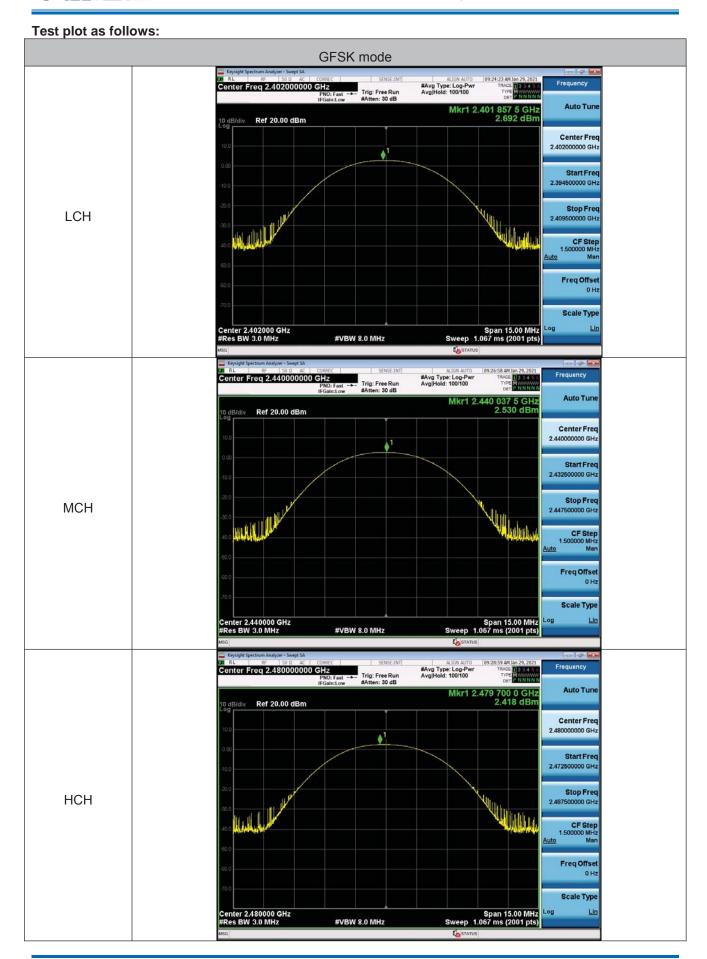


#### **Measurement Data**

GFSK mode (1Mbps)								
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result					
Lowest	2.692	30.00	Pass					
Middle	2.530	30.00	Pass					
Highest	2.418	30.00	Pass					



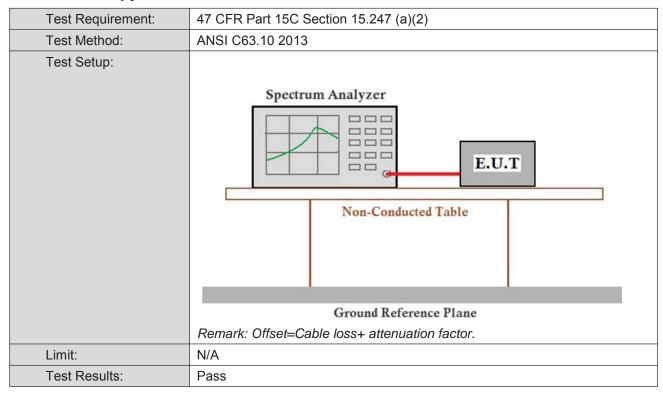






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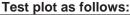
#### 5.4 6dB Occupy Bandwidth

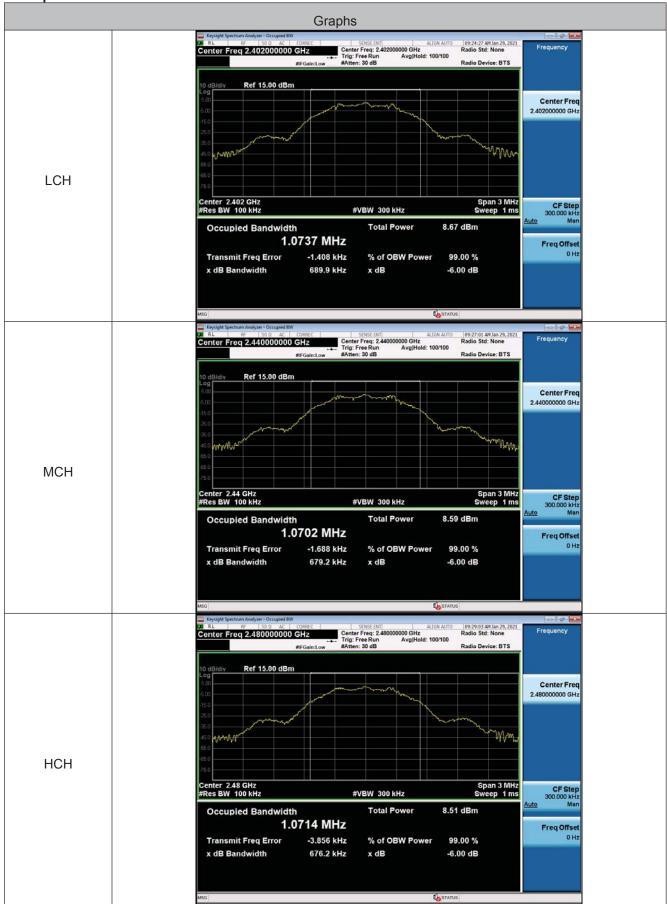


#### **Measurement Data**

	GFSK mode									
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result							
Lowest	0.6899	N/A	Pass							
Middle	0.6792	N/A	Pass							
Highest	0.6762	N/A	Pass							



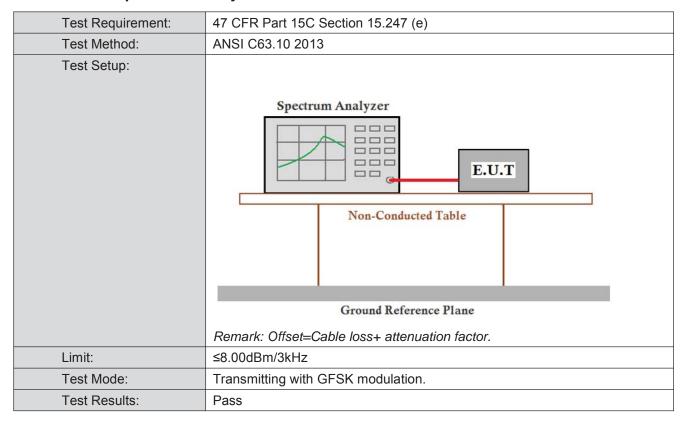








## 5.5 Power Spectral Density

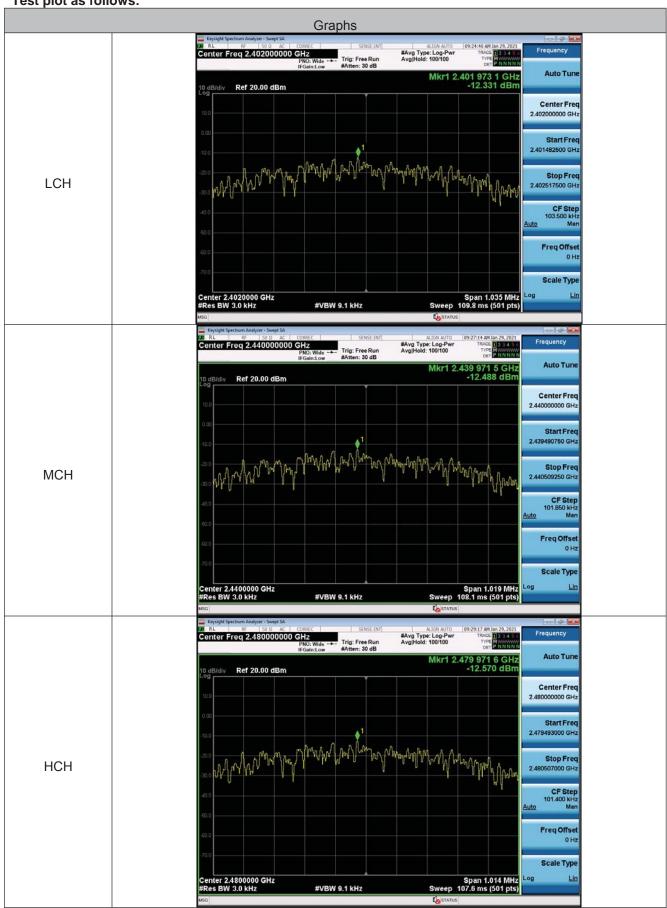


#### **Measurement Data**

	GFSK mode								
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result						
Lowest	-12.331	≤8.00	Pass						
Middle	-12.488	≤8.00	Pass						
Highest	-12.570	≤8.00	Pass						



#### Test plot as follows:

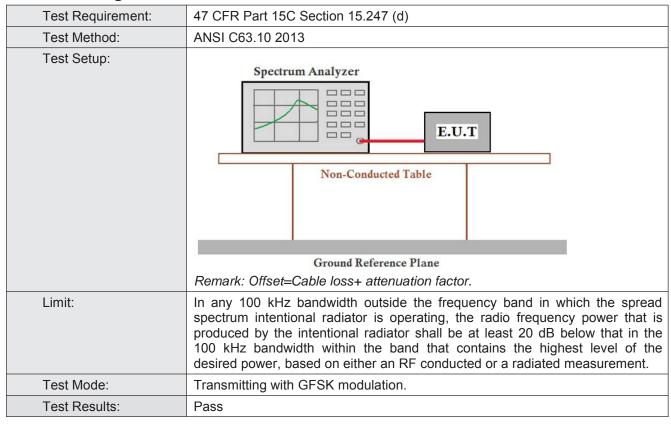




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#### 5.6 Band-edge for RF Conducted Emissions

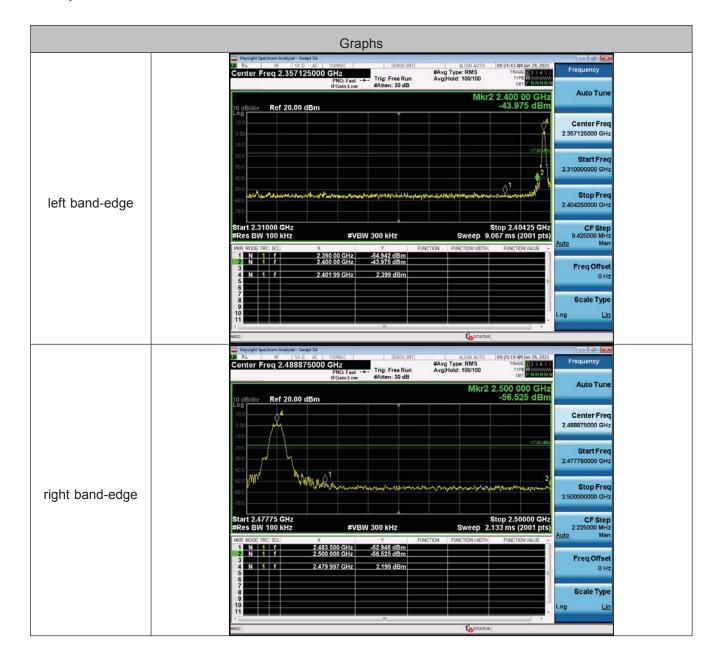
华夏准测







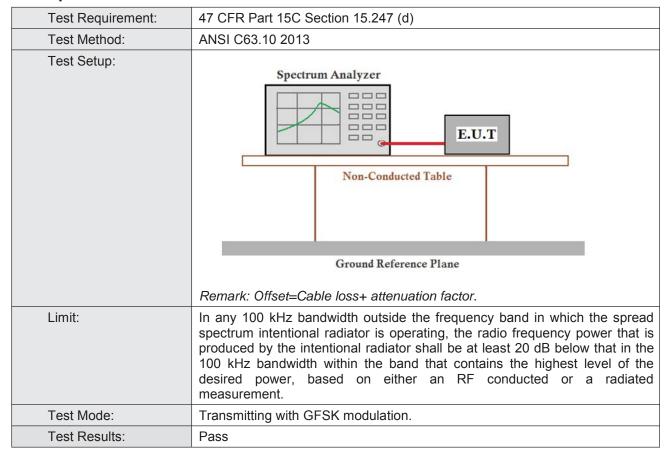
#### Test plot as follows:







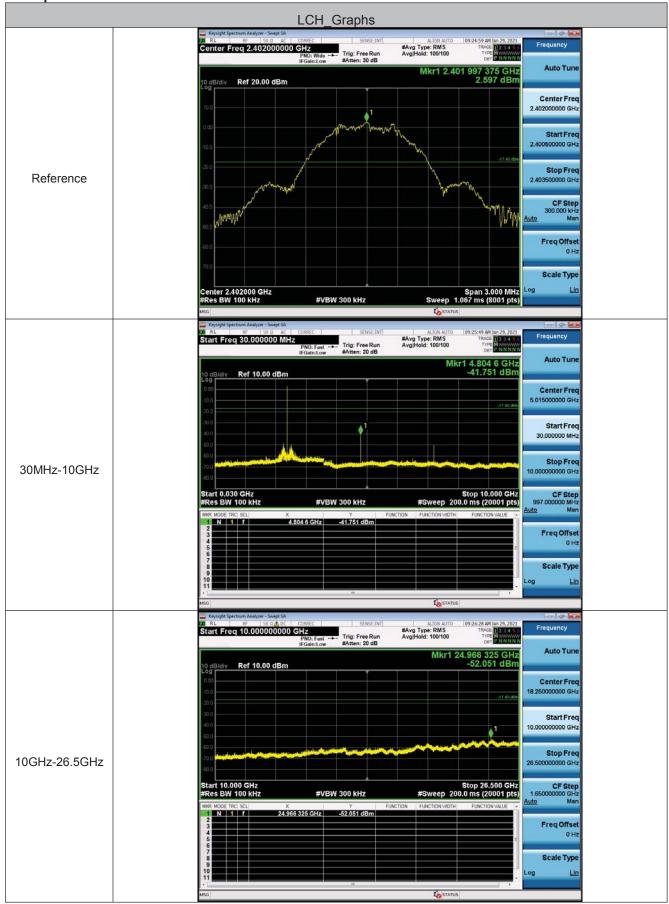
#### 5.7 Spurious RF Conducted Emissions





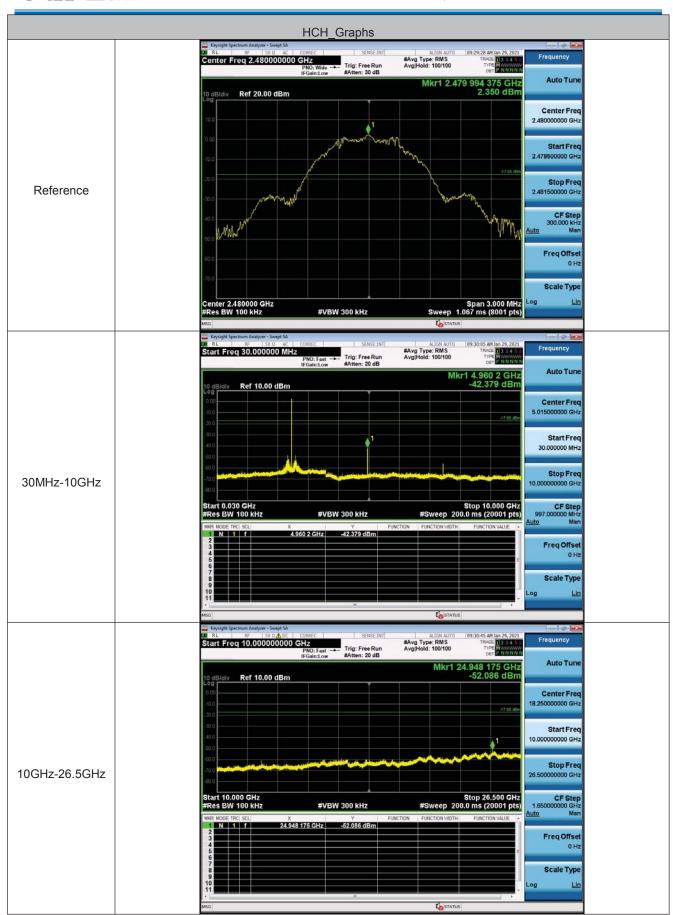














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#### Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



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## 5.8 Radiated Spurious Emission & Restricted bands

5.8.1 Spurious Emissions										
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205						
Test Method:	ANSI C63.10 2013									
Test Site:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	ber)					
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark				
	0.009MHz-0.090MH	Z	Peak	10kHz	30kHz	Peak				
	0.009MHz-0.090MHz		Average	10kHz	30kHz	Average				
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	30kHz	Quasi-peak				
	0.110MHz-0.490MH	z	Peak	10kHz	30kHz	Peak				
	0.110MHz-0.490MH	z	Average	10kHz	30kHz	Average				
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak				
	30MHz-1GHz		Quasi-peak	100 kH	z 300kHz	Quasi-peak				
	Ab 21.2 401 I=			1MHz	3MHz	Peak				
	Above 1GHz		Peak	1MHz	10Hz	Average				
Limit:	Frequency	l .	eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measureme distance (m				
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30				
	1.705MHz-30MHz		30	-	-	30				
	30MHz-88MHz		100	40.0	Quasi-peak	3				
	88MHz-216MHz		150	43.5	Quasi-peak	3				
	216MHz-960MHz		200	46.0	Quasi-peak	3				
	960MHz-1GHz		500	54.0	Quasi-peak	3				
	Above 1GHz		500	54.0	Average	3				
Note: 15.35(b), Unless otherwise specified, the limit on frequency emissions is 20dB above the maximum permitted average limit applicable to the equipment under test. This peak limit applies peak emission level radiated by the device.										



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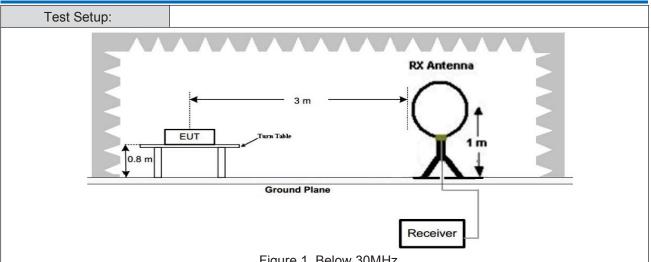
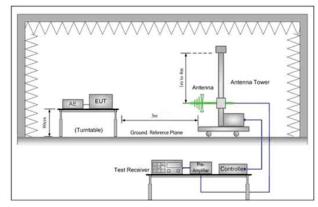


Figure 1. Below 30MHz



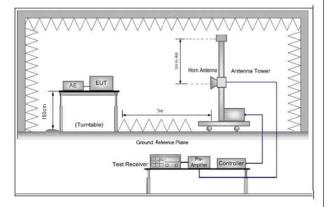


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

#### Test Procedure:

- 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest
  - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

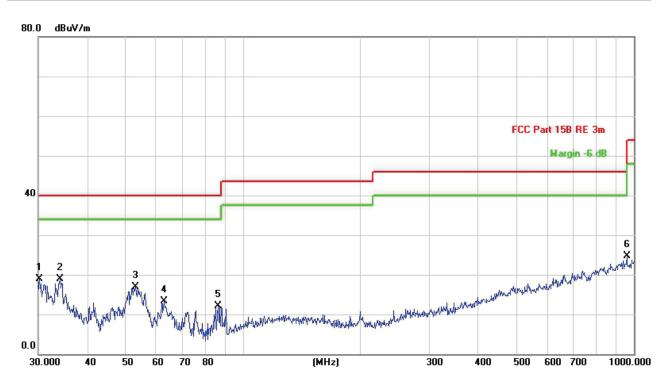
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the



	measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	<ul> <li>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> <li>g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)</li> <li>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the</li> </ul>
	worst case.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation.
Final Test Mode:	Transmitting with GFSK modulation.
	For below 1GHz part, through pre-scan, the worst case is the lowest channel.
	Only the worst case is recorded in the report.
Test Results:	Pass



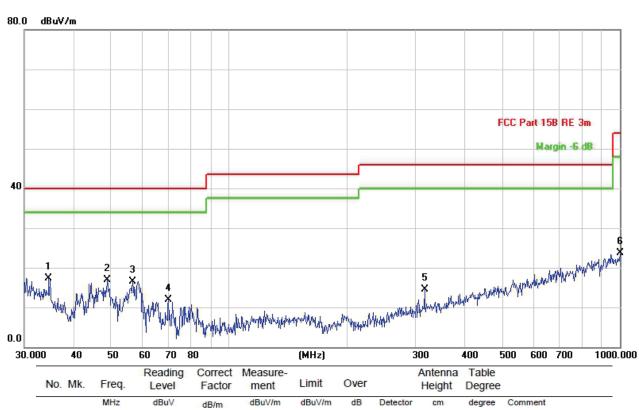
Radiated Emission below 1GHz						
30MHz~1GHz, the worst case						
Test mode: Transmitting mode Vertical						



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB	Detector	cm	degree	Comment
1		30.2109	23.89	-5.07	18.82	40.00	-21.18	QP			
2	*	34.1561	27.28	-8.37	18.91	40.00	-21.09	QP			
3		53.1313	35.78	-18.94	16.84	40.00	-23.16	QP			
4		62.8708	32.13	-18.92	13.21	40.00	-26.79	QP			
5		86.5027	30.16	-18.05	12.11	40.00	-27.89	QP			
6		958.7943	24.37	0.33	24.70	46.00	-21.30	QP			







No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	34.6385	24.68	-7.47	17.21	40.00	-22.79	QP			
2		48.8429	34.06	-17.24	16.82	40.00	-23.18	QP			
3		56.7916	35.41	-18.88	16.53	40.00	-23.47	QP			
4		70.0902	30.26	-18.42	11.84	40.00	-28.16	QP			
5		316.5889	25.25	-10.65	14.60	46.00	-31.40	QP			
6	•	1000.0000	22.20	1.60	23.80	54.00	-30.20	QP			





#### Transmitter Emission above 1GHz

Worse case m	ode:	GFSK		Test chann	el:	Lowest	
Frequency	Frequency Meter Reading		Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2390	57.50	-9.2	48.30	74	-25.70	Peak	Н
2400	59.63	-9.39	50.24	74	-23.76	Peak	Н
4804	55.44	-4.33	51.11	74	-22.89	Peak	Н
7206	51.90	1.01	52.91	74	-21.09	Peak	Н
2390	57.58	-9.2	48.38	74	-25.62	Peak	V
2400	57.78	-9.39	48.39	74	-25.61	Peak	V
4804	55.58	-4.33	51.25	74	-22.75	Peak	V
7206	52.38	1.01	53.39	74	-20.61	Peak	V

Worse case m	ode:	GFSK		Test chann	el:	Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4880	54.94	-4.11	50.83	74	-23.17	Peak	Н
7320	49.21	1.51	50.72	74	-23.28	Peak	Н
4880	56.64	-4.11	52.53	74	-21.47	Peak	V
7320	48.30	1.51	49.81	74	-24.19	Peak	V

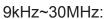
Worse case m	ode:	GFSK		Test chann	el:	Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2483.5	54.79	-9.29	45.50	74	-28.50	Peak	Н
4960	54.36	-4.04	50.32	74	-23.68	Peak	Н
7440	48.84	1.57	50.41	74	-23.59	Peak	Н
2483.5	54.04	-9.29	44.75	74	-29.25	Peak	V
4960	54.21	-4.04	50.17	74	-23.83	Peak	V
7440	49.37	1.57	50.94	74	-23.06	Peak	V

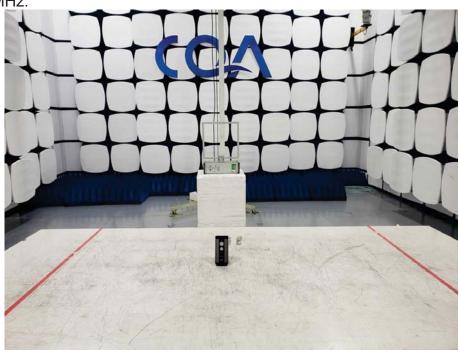
#### Remark:

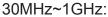
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
  - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

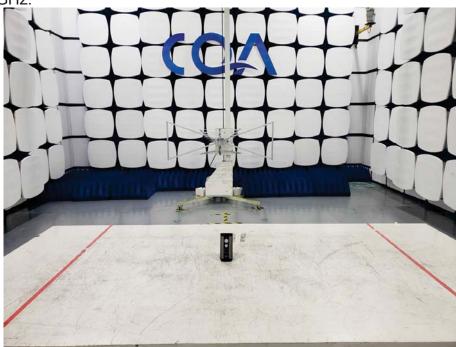
## 6 Photographs - EUT Test Setup

Please see test setup file



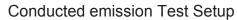






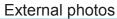
Above 1GHz:







## 7 Photographs - EUT Constructional Details

























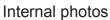










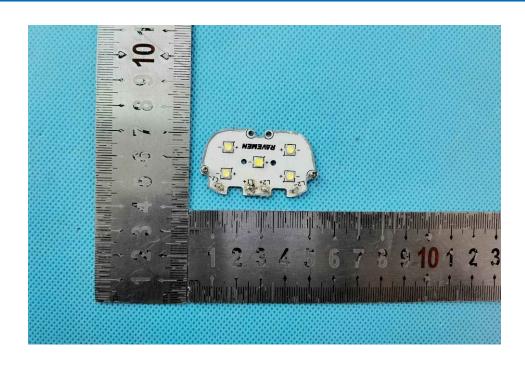


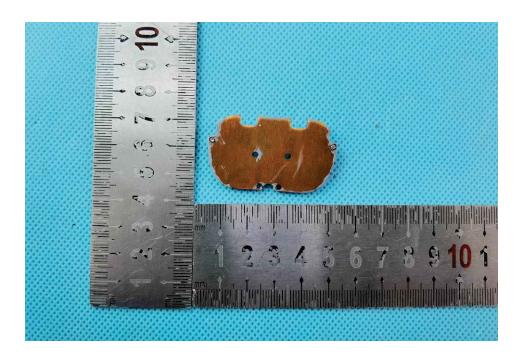






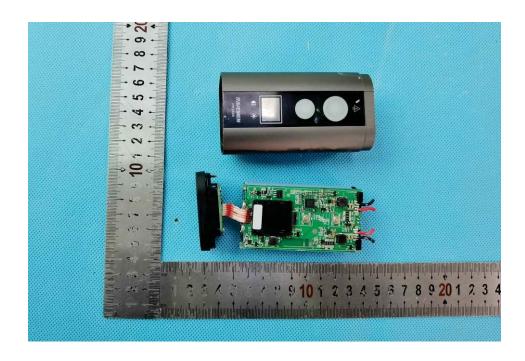


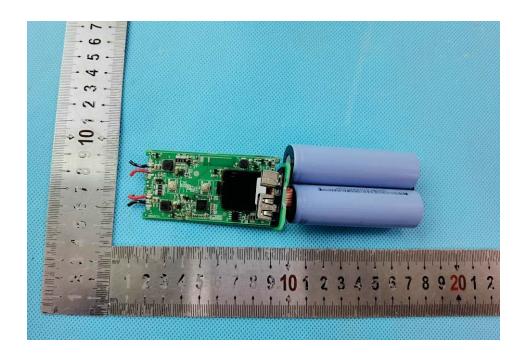






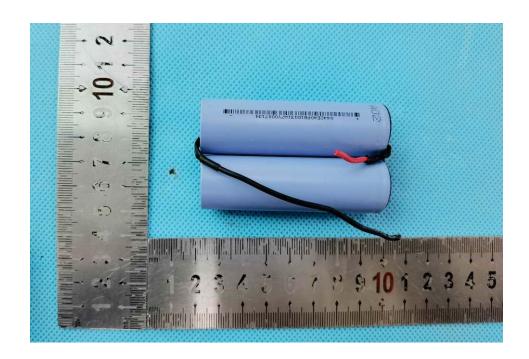


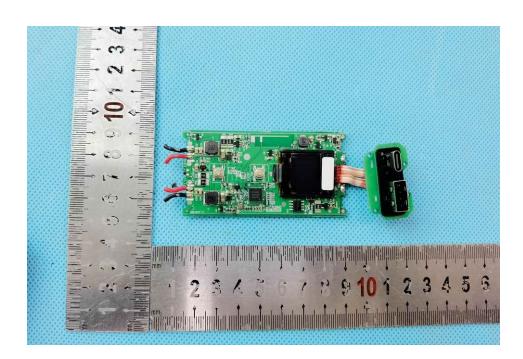




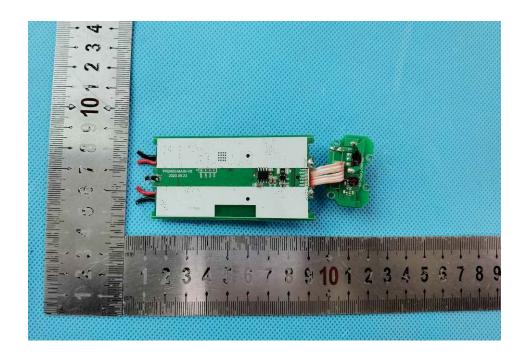














The End