

RF TEST REPORT

Shenzhen ZhongkeRui Electronics Co., Ltd **Product Name: Bike Rear Light** Test Model(s).: NT101

Report Reference No. DACE240823002RF001

FCC ID 2AYUF-NT101

Shenzhen ZhongkeRui Electronics Co., Ltd **Applicant's Name**

501, Building A, Nankeng 2nd Industrial Park, Bantian, Longgang, **Address**

Shenzhen 518129. China

Testing Laboratory Shenzhen DACE Testing Technology Co., Ltd.

102 Building H1 & 1/F., Building H, Hongfa Science & Technology Park, **Address**

Tangtou, Shiyan, Bao' an District, Shenzhen, Guangdong, China

47 CFR Part 15.249 **Test Specification Standard**

Date of Receipt : August 23, 2024

Date of Test August 23, 2024 to September 10, 2024

Data of Issue September 10, 2024

Result **Pass**

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102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China E-mail: service@dace-lab.com



Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE240823002RF001	September 10, 2024
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NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:	Supervised by:	Approved by:
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Ben Tang /Test Engineer	Tom Chen / Project Engineer	Machael Mo / Manager

102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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V1.0

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHZ, and 24.0-24.25 GHz

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1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
Antenna requirement	47 CFR Part 15.249		47 CFR Part 15.203	Pass
Occupied Bandwidth	47 CFR Part 15.249	ANSI C63.10-2013, section 6.9.2	47 CFR 15.215(c)	Pass
Field strength of fundamental	47 CFR Part 15.249	ANSI C63.10-2013 section 6.6	47 CFR 15.249(a) 47 CFR 15.249(b)(1)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.249	ANSI C63.10-2013 section 6.6.4	47 CFR 15.249(d)	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.249	ANSI C63.10-2013 section 6.5	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.249	ANSI C63.10-2013 section 6.6	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)	Pass

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2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Shenzhen ZhongkeRui Electronics Co., Ltd

Address : 501, Building A, Nankeng 2nd Industrial Park, Bantian, Longgang, Shenzhen

Report No.: DACE240823002RF001

518129, China

Manufacturer : Shenzhen ZhongkeRui Electronics Co., Ltd

Address : 501, Building A, Nankeng 2nd Industrial Park, Bantian, Longgang, Shenzhen

518129, China

2.2 Description of Device (EUT)

Product Name:	Bike Rear Light
Model/Type reference:	NT101
Series Model:	NT102, NT103, NT104, NT105
Model Difference:	The product has many models, only the model name is different, and the other parts such as the circuit principle, pcb and electrical structure are the same.
Trade Mark:	RAVEMEN
Power Supply:	DC3.0V
Operation Frequency:	2402MHz,2426MHz,2480MHz
Number of Channels:	3
Modulation Type:	GFSK
Antenna Type:	PCB
Antenna Gain:	0dBi
Hardware Version:	V1.0
Software Version:	V1.0

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	2	2426MHz	3	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:

Test channel	Frequency (MHz)
Lowest channel	2402MHz
Middle channel	2426MHz
Highest channel	2480MHz

2.3 Description of Test Modes

1	No	Title	Description
	TM1	TX-GFSK	Keep the EUT in continuously transmitting mode with GFSK modulation.

2.4 Description of Support Units

The EUT was tested as an independent device.

102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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2.5 Equipments Used During The Test

Occupied Bandwidth		700			
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	TACHOY	RTS-01	V1.0.0	1	1
High Pass filter	ZHINAN	OQHPF1-M1.5- 18G-224	6210075	1	1
Power divider	MIDEWEST	PWD-2533	SMA-79	2023-05-11	2026-05-10
RF Sensor Unit	Tachoy Information Technology(she nzhen) Co.,Ltd.	TR1029-2	000001	/	D/C
Signal Generator	Keysight	N5181A	MY48180415	2023-11-09	2024-11-08
Signal Generator	Keysight	N5182A	MY50143455	2023-11-09	2024-11-08
Spectrum Analyzer	Keysight	N9020A	MY53420323	2023-12-12	2024-12-11

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Field strength of fundamental
Band edge emissions (Radiated)
Emissions in frequency bands (below 1GHz)
Emissions in frequency bands (above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	V1.1.42	1	1
Positioning Controller	1	MF-7802	1	1	1
High Pass filter	ZHINAN	OQHPF1-M1.5- 18G-224	6210075	/	Se,
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2022-04-05	2025-04-04
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2023-04-05	2025-04-04
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2024-06-14	2026-06-13
Cable(LF)#2	Schwarzbeck	1	1	2024-02-19	2025-02-18
Cable(LF)#1	Schwarzbeck	1	/	2024-02-19	2025-02-18
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2024-03-20	2025-03-19
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2024-03-20	2025-03-19
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2024-06-12	2025-06-11
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2024-06-12	2025-06-11
Wideband radio communication tester	R&S	CMW500	113410	2024-06-12	2025-06-11
Spectrum Analyzer	R&S	FSP30	1321.3008K40 -101729-jR	2024-06-12	2025-06-11
Test Receiver	R&S	ESCI 3	1166.5950K03 -101431-Jq	2024-06-13	2025-06-12
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2023-05-21	2025-05-20
			<u> </u>	<u> </u>	

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2.6 Statement Of The Measurement Uncertainty

V1.0

	Measurement Uncertainty
V	±3.63%
	±5.46dB
Radiated Emission (Below 1GHz)	
	DA

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

2.7 Identification of Testing Laboratory

Camanany Names	Chamban DACE Testing Teshneless Co. Ltd.
Company Name: Shenzhen DACE Testing Technology Co., Ltd.	
Address:	102 Building H1 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao' an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252

Identification of the Responsible Testing Location

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.				
Address:	102 Building H1 & 1/F., Building H, Hongfa Science & Technology Park,				
7 144.000.	Tangtou, Shiyan, Bao' an District, Shenzhen, Guangdong, China				
Phone Number:	+86-13267178997				
Fax Number:	86-755-29113252				
FCC Registration Number:	0032847402				
Designation Number:	CN1342				
Test Firm Registration Number:	778666				
A2LA Certificate Number:	6270.01				

2.8 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by POCE and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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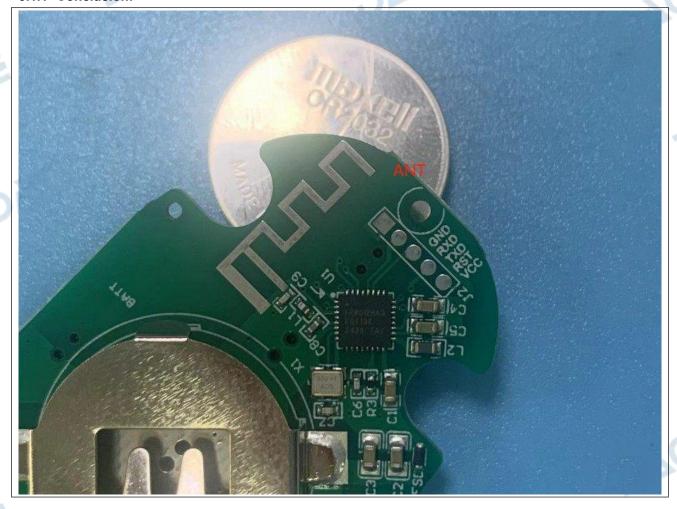
3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:

Refer to 47 CFR 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.

3.1.1 Conclusion:



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4 Radio Spectrum Matter Test Results (RF)

4.1 Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2013, section 6.9.2
Procedure:	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
VC.	c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the
DIE	reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
DP.	i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" determined in step h). If a marker is below this "-xx dB down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "-xx dB down
DIE	amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

4.1.1 E.U.T. Operation:

Operating Environment:

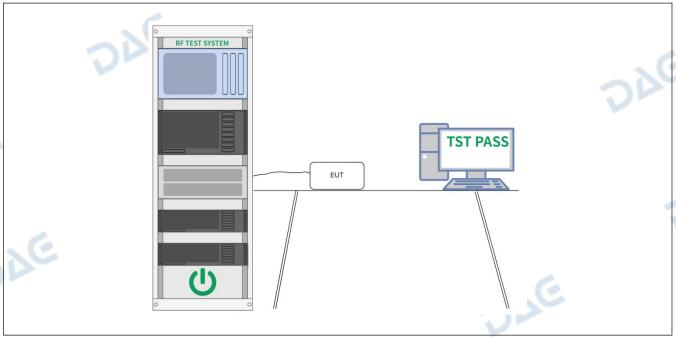
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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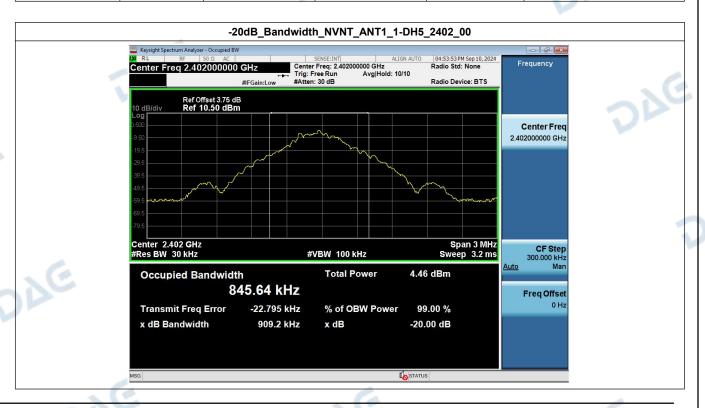
Temperature: 23.6 °C		Humidity:	48 %	6	Atmospheric Pressure:	102 kPa
Pretest mode:	TM1					7/6
Final test mode:	TM1		V			JE

4.1.2 Test Setup Diagram:

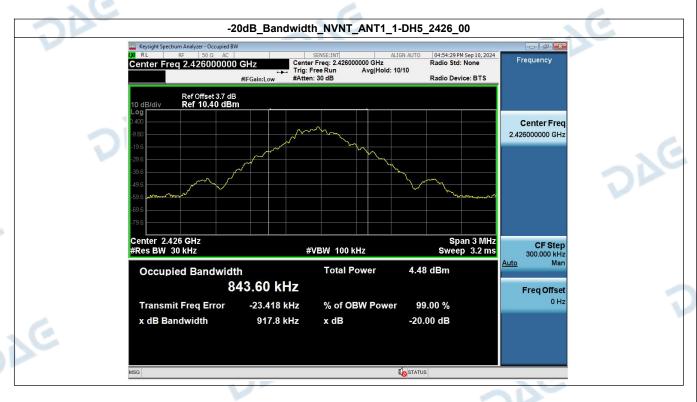


4.1.3 Test Data:

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.909	No
NVNT	ANT1	1-DH5	2426.00	0.918	No
NVNT	ANT1	1-DH5	2480.00	0.912	No



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4.2 Field strength of fundamental

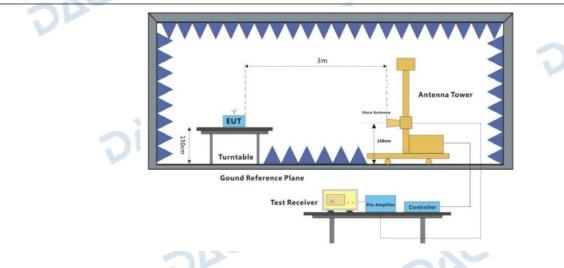
4.2 Field Strength of fundamental								
Test Requirement:			e field strength of emissions ency bands shall comply with					
DAG	Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)					
	902-928 MHz	50	500					
	2400-2483.5 MHz	50	500					
	5725-5875 MHz	50	500					
	24.0-24.25 GHz	250	2500					
1	The field strength of emissions in this band shall not exceed 2500 millivolts/meter.							
Test Method:	ANSI C63.10-2013 section	6.6	•					
Procedure:	ANSI C63.10-2013 section	6.6						

Report No.: DACE240823002RF001

4.2.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23.6 °C		Humidity:	48 %	Atmospheric Pressure: 102 kPa			
Pretest mode:		TM1			202			
Final test mode:	6	TM1						

4.2.2 Test Setup Diagram:



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4.2.3 Test Data:

V1.0

Frequency	Emission Level	Limits	Margin	Detector	Polarization
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(PK/AV)	(H/V)
2402	79.24	114.00	-34.76	PK	Н
2402	77.24	94.00	-16.76	AV	Н
2402	78.64	114.00	-35.36	PK	V
2402	76.47	94.00	-17.53	AV	V

Frequency	Emission Level	Limits	Margin	Detector	Polarization
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(PK/AV)	(H/V)
2426	78.48	114.00	-35.52	PK	Н
2426	76.59	94.00	-17.41	AV	Н
2426	79.47	114.00	-34.53	PK	V
2426	76.82	94.00	-17.18	AV	V
D		- xC			

Frequency	Emission Level	Limits	Margin	Detector	Polarization
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(PK/AV)	(H/V)
2480	79.54	114.00	-34.46	PK	Н
2480	78.54	94.00	-15.46	AV	Н
2480	78.64	114.00	-35.36	PK	V
2480	75.81	94.00	-18.19	AV	V

NOTE: For fundamental frequency, RBW>20dB BW ,VBW>3XRBW, PK detector is for PK value, RMS detector is for AV value.

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4.3 Band edge emissions (Radiated)

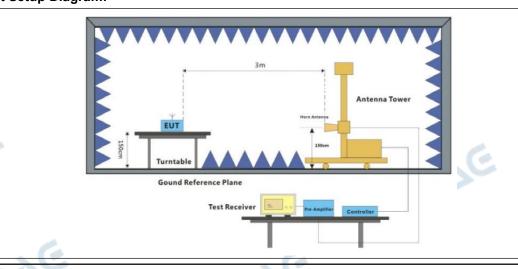
V1.0

s, except for harmonics, fundamental or to the ne lesser attenuation. s, except for harmonics,				
s, except for harmonics,				
fundamental or to the ne lesser attenuation.				
Measurement distance (meters)				
300				
30				
30				
3				
3				
3				
3				
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.				
276				
V				

4.3.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23.6 °C		Humidity:	48 %	Atmospheric P	ressure: 102	kPa	
Pretest mode:	V	TM1			OF		> (
Final test mode:		TM1					2 P	

4.3.2 Test Setup Diagram:



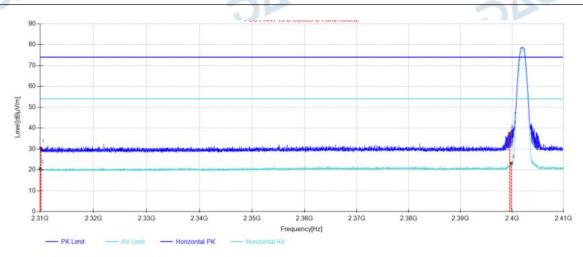
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4.3.3 Test Data:





Report No.: DACE240823002RF001

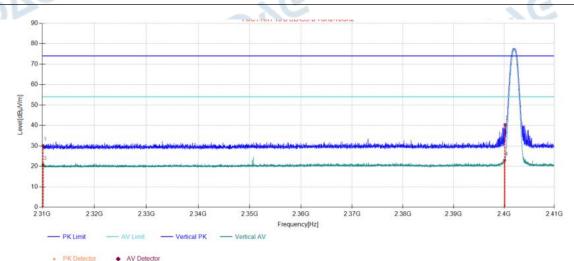
Suspected Data List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2310.15	30.43	-11.73	74.00	43.57	150	344	Horizontal		
2	2399.53	37.54	-11.45	74.00	36.46	150	158	Horizontal		
3	2310.02	20.57	-11.73	54.00	33.43	150	74	Horizontal		
4	2399.86	23.18	-11.44	54.00	30.82	150	316	Horizontal		

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DAG



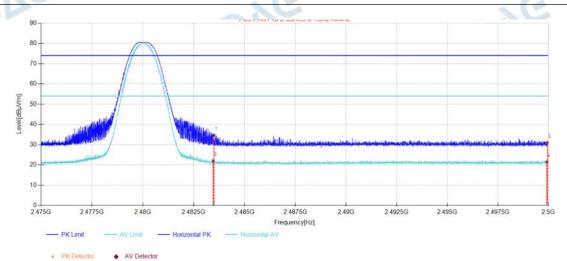


Susp	Suspected Data List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2310.16	30.15	-11.73	74.00	43.85	150	202	Vertical		
2	2400.18	40.36	-11.44	74.00	33.64	150	89	Vertical		
3	2310.15	20.73	-11.73	54.00	33.27	150	224	Vertical		
4	2400.11	22.97	-11.44	54.00	31.03	150	89	Vertical		

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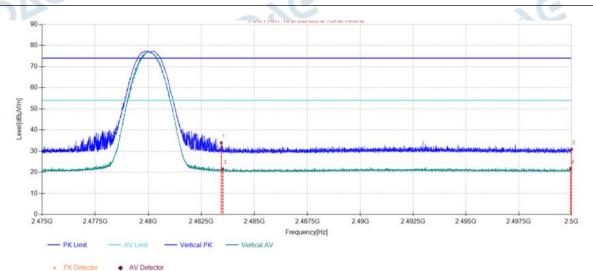


Susp	Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2483.49	34.66	-11.18	74.00	39.34	150	311	Horizontal	
2	2499.95	31.08	-11.12	74.00	42.92	150	323	Horizontal	
3	2483.45	22.04	-11.18	54.00	31.96	150	306	Horizontal	
4	2499.92	21.52	-11.12	54.00	32.48	150	306	Horizontal	

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Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.43	33.95	-11.18	74.00	40.05	150	207	Vertical
2	2499.99	30.87	-11.12	74.00	43.13	150	5	Vertical
3	2483.50	21.52	-11.18	54.00	32.48	150	145	Vertical
4	2499.95	21.78	-11.12	54.00	32.22	150	195	Vertical

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4.4 Emissions in frequency bands (below 1GHz)

Test Requirement:	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)
Test Limit:	Except as provided in paragraph (b)of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

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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.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705-30.0	30	30	
30-88	100 **	3	
88-216	150 **	3	
216-960	200 **	3	
Above 960	500	3	

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)and (b)of this section 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. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Test Method:	ANSI C63.10-2013 section 6.5
Procedure:	ANSI C63.10-2013 section 6.5

102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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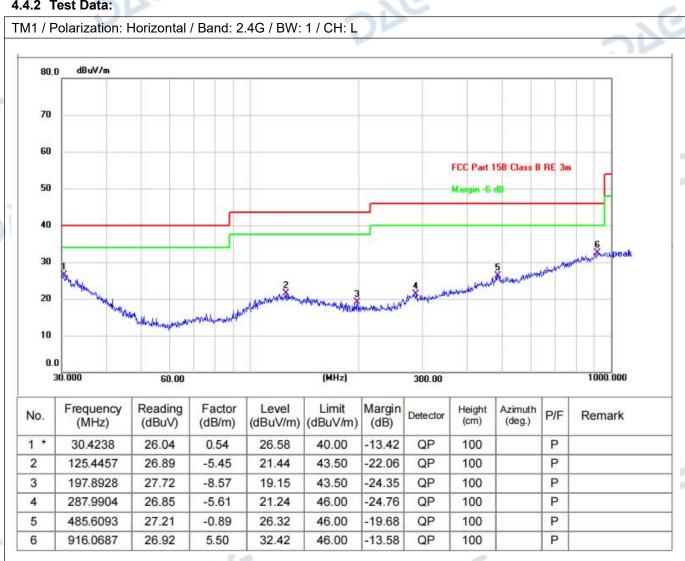


4.4.1 E.U.T. Operation:

Operating Envir	onment:				- 16		
Temperature:	23.6 °C		Humidity:	48 %		Atmospheric Pressure:	102 kPa
Pretest mode:		TM1					
Final test mode:		TM1					

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4.4.2 Test Data:



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	31.0706	26.76	0.12	26.88	40.00	-13.12	QP	100		Р	
2	46.6664	34.63	-10.47	24.16	40.00	-15.84	QP	100		Р	
3	69.6005	31.20	-11.53	19.67	40.00	-20.33	QP	100		Р	
4	122.8340	27.70	-5.38	22.32	43.50	-21.18	QP	100		Р	
5	519.0649	27.82	-1.23	26.59	46.00	-19.41	QP	100		Р	
6 *	958.7943	27.28	5.70	32.98	46.00	-13.02	QP	100		Р	

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4.5 Emissions in frequency bands (above 1GHz)

Test Requirement:	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)
Test Limit:	Except as provided in paragraph (b)of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)	
902-928 MHz	50	500	
2400-2483.5 MHz	50	500	
5725-5875 MHz	50	500	
24.0-24.25 GHz	250	2500	

Report No.: DACE240823002RF001

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.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705-30.0	30	30	
30-88	100 **	3	
88-216	150 **	3	
216-960	200 **	3	
Above 960	500	3	

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)and (b)of this section 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. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Test Method:	ANSI C63.10-2013 section 6.6
Procedure:	ANSI C63.10-2013 section 6.6

102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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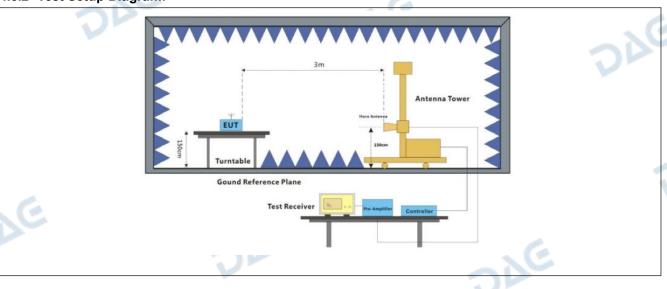
4.5.1 E.U.T. Operation:

Operating Envir	onment:							
Temperature:	23.6 °C		Humidity:	48 %	Atm	nospheric Pressure:	102 kPa	
Pretest mode:		TM1						
Final test mode:		TM1						

4.5.2 Test Setup Diagram:

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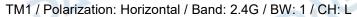


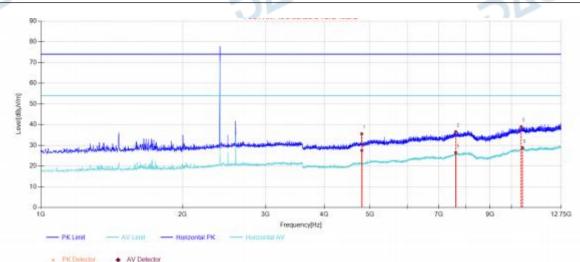
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4.5.3 Test Data:

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Susp	Suspected Data List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4804.53	35.58	-6.94	74.00	38.42	150	98	Horizonta			
2	7607.26	36.60	-1.31	74.00	37.40	150	264	Horizontal			
3	10481.9	39.00	2.85	74.00	35.00	150	259	Horizonta			
4	4806.00	27.55	-6.94	54.00	26.45	150	82	Horizonta			
5	7608.73	26.50	-1.31	54.00	27.50	150	125	Horizonta			
6	10552.4	28.86	2.95	54.00	25.14	150	316	Horizontal			

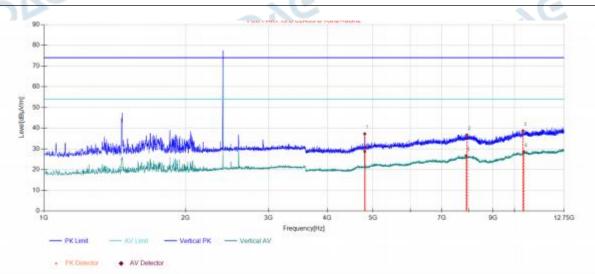
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Report No.: DACE240823002RF001

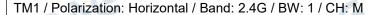


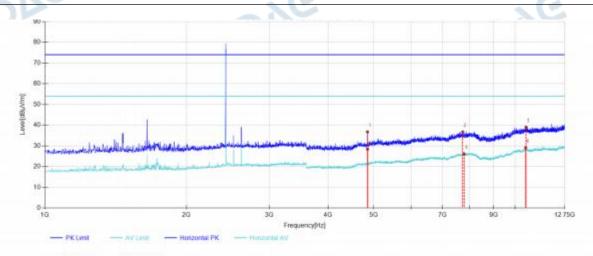


Susp	Suspected Data List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4804.53	37.29	-6.94	74.00	36.71	150	113	Vertical			
2	7920.14	36.70	-0.21	74.00	37.30	150	102	Vertical			
3	10423.2	38.70	2.75	74.00	35.30	150	130	Vertical			
4	4806.00	28.77	-6.94	54.00	25.23	150	107	Vertical			
5	7889.29	26.67	-0.32	54.00	27.33	150	231	Vertical			
6	10459.9	28.68	2.82	54.00	25.32	150	294	Vertical			

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Susp	Suspected Data List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4851.54	36.76	-6.77	74.00	37.24	150	83	Horizontal		
2	7735.06	36.70	-0.87	74.00	37.30	150	49	Horizontal		
3	10545.1	39.04	2.94	74.00	34.96	150	140	Horizontal		
4	4853.01	28.46	-6.76	54.00	25.54	150	83	Horizontal		
5	7787.94	26.15	-0.68	54.00	27.85	150	219	Horizontal		
6	10528.9	29.19	2.92	54.00	24.81	150	94	Horizontal		

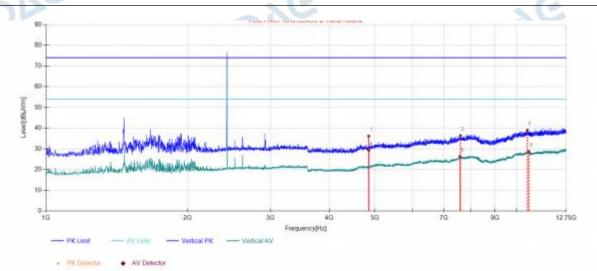
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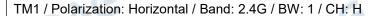
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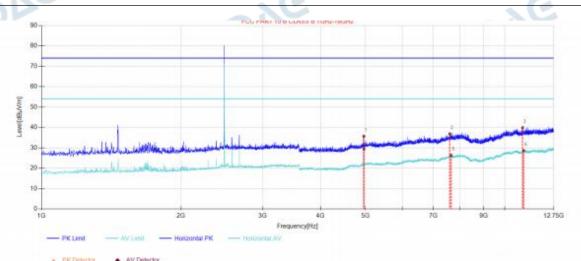




Susp	Suspected Data List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4851.54	36.15	-6.77	74.00	37.85	150	123	Vertical		
2	7598.44	36.40	-1.34	74.00	37.60	150	140	Vertical		
3	10548.0	39.06	2.95	74.00	34.94	150	33	Vertical		
4	4853.01	29.34	-6.76	54.00	24.66	150	106	Vertical		
5	7580.82	26.35	-1.41	54.00	27.65	150	55	Vertical		
6	10620.0	28.74	3.04	54.00	25.26	150	169	Vertical		

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Susp	Suspected Data List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4960.24	35.68	-6.36	74.00	38.32	150	310	Horizontal		
2	7604.32	36.86	-1.32	74.00	37.14	150	220	Horizontal		
3	10919.7	39.87	3.39	74.00	34.13	150	248	Horizontal		
4	4961.71	29.44	-6.35	54.00	24.56	150	83	Horizontal		
5	7654.26	26.34	-1.15	54.00	27.66	150	213	Horizontal		
6	10974.0	28.68	3.45	54.00	25.32	150	77	Horizontal		

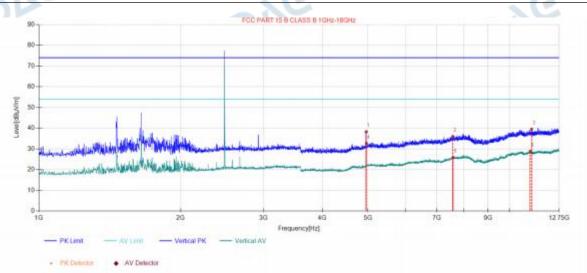
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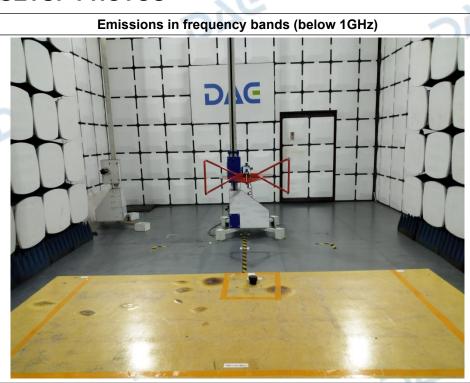


Susp	Suspected Data List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960.24	38.27	-6.36	74.00	35.73	150	113	Vertical			
2	7577.88	36.00	-1.41	74.00	38.00	150	354	Vertical			
3	11140.0	39.51	3.50	74.00	34.49	150	141	Vertical			
4	4961.71	32.65	-6.35	54.00	21.35	150	107	Vertical			
5	7585.22	25.86	-1.39	54.00	28.14	150	290	Vertical			
6	11068.0	28.84	3.49	54.00	25.16	150	72	Vertical			

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5 TEST SETUP PHOTOS



Emissions in frequency bands (above 1GHz)





6 PHOTOS OF THE EUT

External



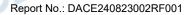


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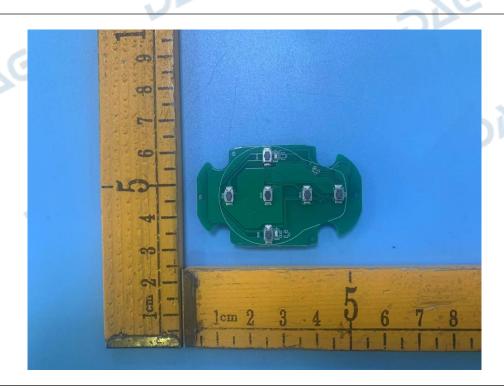
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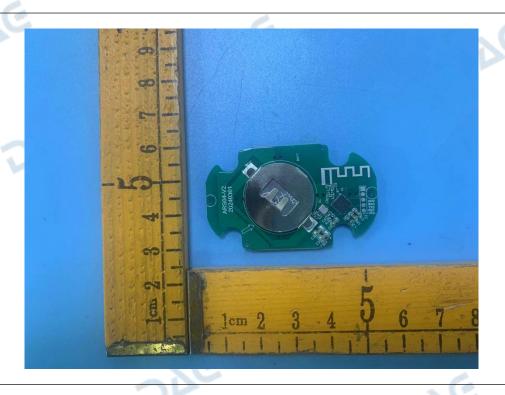
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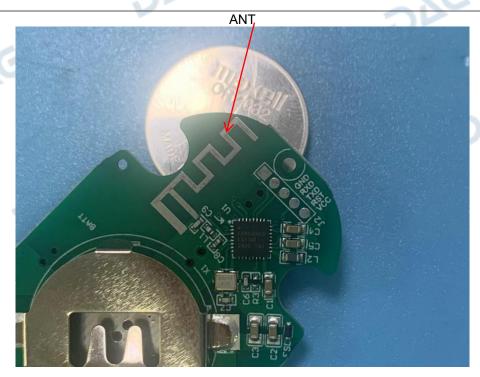






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