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 XEWA2306000055RG02

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TEST REPORT

Application No.:	XEWA2306000055RG	
Applicant:	Quectel Wireless Solutions Co., Ltd.	
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233	
Manufacturer:	Quectel Wireless Solutions Co., Ltd.	
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233	
EUT Description:	Wi-Fi & Bluetooth Module	
Model No.:	FC66E	
Trade Mark:	Quectel	
FCC ID:	XMR2023FC66E	
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	
Date of Receipt:	2023/06/28	
Date of Test:	2023/06/29 to 2023/07/14	
Date of Issue:	2023/07/20	
Test Result :	PASS *	

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

*

Pore Tom

Peter Tan Regulatory Technical Manager



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1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01 2023/07/20 Original					

Prepared By	leah chen
	(Leah Chen) / Test Engineer
Checked By	Andy Yao
	(Andy Yao) /Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2020 Section 6.2	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233	
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address: 1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, K Road, Fengdong New Town, Xi' an, Shaanxi China	
Post code:	710086
Test engineer:	Qiang Zhang, Jacky Xue

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

• FCC –Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410



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3.4 General Description of EUT

EUT Description:	Wi-Fi & Bluetooth Modul	Wi-Fi & Bluetooth Module		
Model No.:	FC66E	FC66E		
Trade Mark:	Quectel	Quectel		
Hardware Version:	R1.0	R1.0		
Software Version:	1	1		
ONE	RF Conducted	E1N23B111000074		
SN:	RSE & AC power line	E1N23B111000093		
Operation Frequency:	-fc = "Operating Frequen	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.		
Bluetooth version:	Bluetooth V5.2	Bluetooth V5.2		
Modulation Type:	GFSK	GFSK		
Number of Channel:	40			
Rates Type*:	Provided by client 1M PHY 2M P	HY		
Antenna Type:	🛛 External, 🗌 Integrate	ed		
	1.32dBi (Ant0)			
Antenna Gain:	Note: The antenna gain are de by the manufacturer.	The antenna gain are derived from the gain information report provided		
RF Cable:	1.2dB	1.2dB		

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

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Antenna Information					
Brand Name	HIGH-TEK HARNESS ENTERPRISE	Peak Gain	1.32dBi		
	Model Name	F7G280	Туре	PIFA Antenna	



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Operation Frequency of each 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

Remark:

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	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz



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3.5 Test Environment

Environment Parameter	96~101 kPa Selected Values During Tests		
Relative Humidity	40-60 % RH Ambient		
Value	Temperature(°C)	Voltage(V)	
NTNV	22~25	2.0	
Remark: NV: Normal Voltage NT: Normal Temperature			

3.6 Description of Support Units

Description	Manufacturer	Model No.	
Mother board	Quectel	FG50K-PCIE-CARD-EVB	
Adapter	Something High Electric (xiamen) Company Inc	P-050B-050200	
Remark: all above the information of table are provided by client.			



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)			
15.203 requirement:				
An intentional radiator shall b	be designed to ensure that no antenna other than that furnished by the			
responsible party shall be us	ed with the device. The use of a permanently attached antenna or of an			
antenna that uses a unique of	coupling to the intentional radiator, the manufacturer may design the unit			
so that a broken antenna car	n be replaced by the user, but the use of a standard antenna jack or			
electrical connector is prohib	ited.			
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.				
The antenna is External Antenna on the main PCB and no consideration of replacement.				
The best case gain of the antenna is 1.32dBi (Ant0).*				
5				

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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4.2 AC Power Line Conducted Emissions

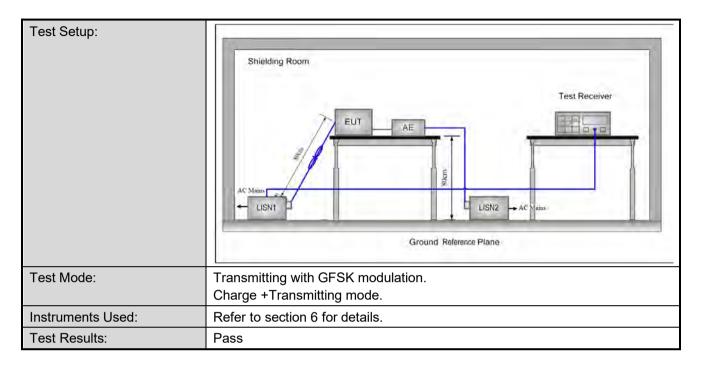
Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10-2020 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz		
Limit:		Limit (d	BuV)	
	Frequency range(MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the log	arithm of the frequency.		
Test Procedure:	 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) 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. 3) 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. 4) 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. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63,10-2020 on conducted measurement. 			



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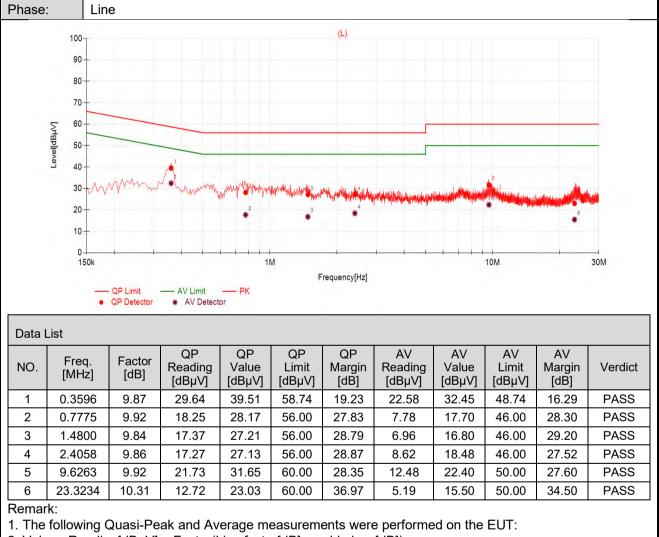
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dBµV] – Value[dBµV]



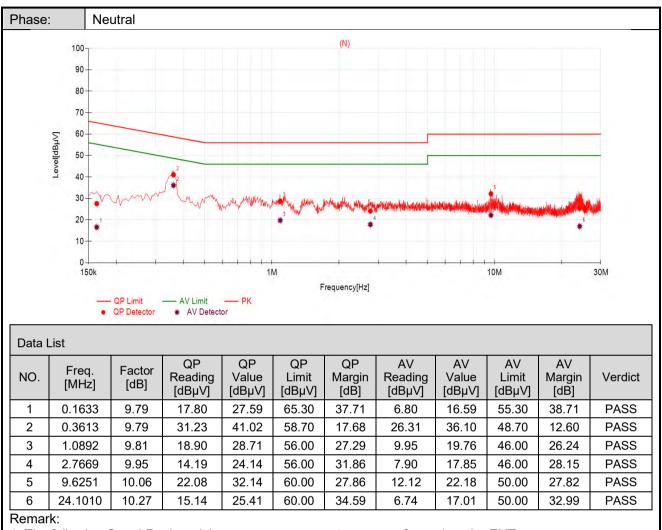
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1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dBµV] – Value[dBµV]



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4.3 Duty Cycle

The detailed test data see: Appendix



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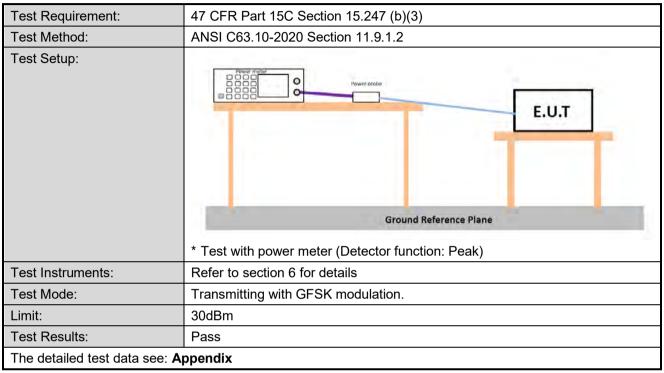
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4.4 Conducted Output Power





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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3		
Test Setup:	PC Spectrum Analyzer Image: Spectrum Analyzer		
Instruments Used:	Refer to section 6 for details		
Test Mode:	Transmitting with GFSK modulation.		
Limit:	≥ 500 kHz		
Test Results:	Pass		
The detailed test data see: Appendix			



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47 CFR Part 15C Section 15.247 (e) Test Requirement: Test Method: ANSI C63.10-2020 Section 11.10.2 Test Setup: SGS Test system PC 0 on 9 Unit 0 0 in a E.U.T analog Signal Gene DC Po l Ground Reference Plane Test Instruments: Refer to section 6 for details Test Mode: Transmitting with GFSK modulation. Limit: ≤8.00dBm/3kHz Test Results: Pass The detailed test data see: Appendix

4.6 Power Spectral Density



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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10-2020 Section 11.11		
Test Setup:	PC Image: Section Answer Image: Section Answer Image: Section Answer		
Instruments Used:	Refer to section 6 for details		
Test Mode:	Transmitting with GFSK modulation.		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test Results:	Pass		
The detailed test data se	e: Appendix		



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47 CFR Part 15C Section 15.247 (d) Test Requirement: Test Method: ANSI C63.10-2020 Section 11.11 Test Setup: SGS Test system lector Signal Genera 0 PC rol Unit 0 0 0 m E.U.T analog Signal Ger DC Powe Ground Reference Plane Instruments Used: Refer to section 6 for details Test Mode: Transmitting with GFSK modulation. In any 100 kHz bandwidth outside the frequency band in which the spread Limit: spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Test Results: Pass The detailed test data see: Appendix

4.8 **RF Conducted Spurious Emissions**



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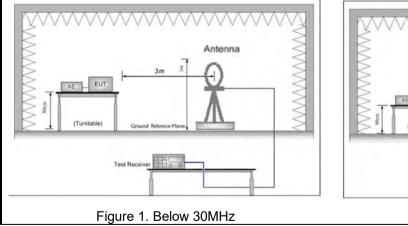
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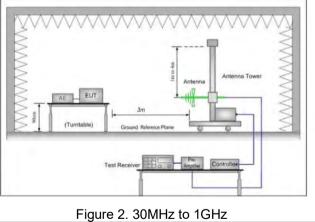
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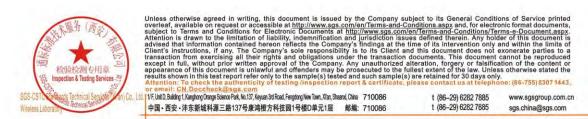
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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020 Section 11.12				
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic Chamber)		
Test Frequency:	9kHz ~ 25GHz				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/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
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				



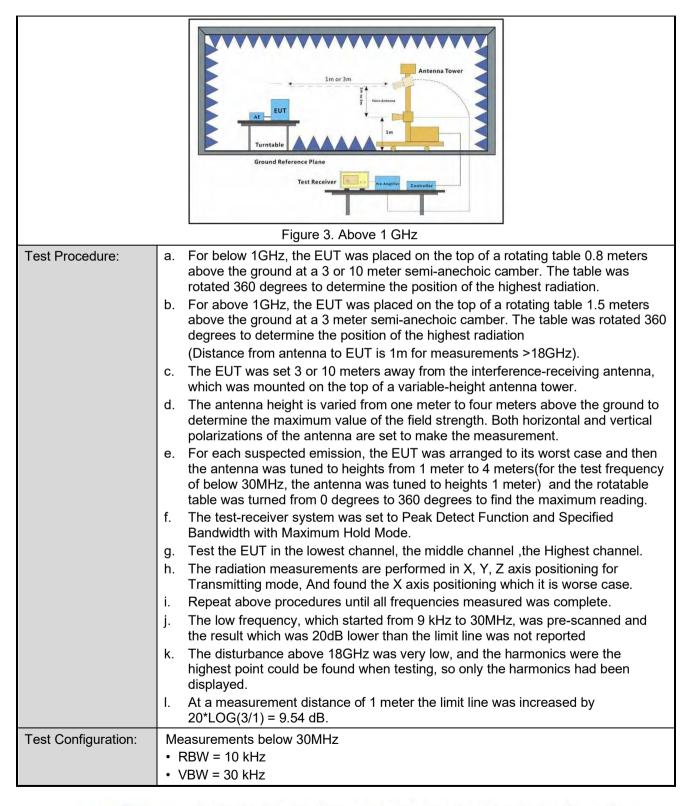




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Mode: Charge + Transmitting mode. Final Test Mode: Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.	· · · · · · · · · · · · · · · · · · ·			
Measurements Below 1000MHz• RBW = 120 kHz• VBW = 300 kHz• Detector = Quasi-peak• Trace mode = max holdPeak Measurements Above 1000 MHz• RBW = 1 MHz• VBW ≥ 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max holdAverage Measurements Above 1000MHz• RBW = 1 MHz• VBW ≥ 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max holdAverage Measurements Above 1000MHz• RBW = 1 MHz• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW = 10 Hz, when duty cycle is less than 98 percent.• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW = 11, when duty cycle is less than 98 percent.• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW ≥ 1/T, when duty cycle is less than 98 percent.• VBW ≥ 1/T, when duty cycle is less than 98 percent.• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW = 11 Hz• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW = 11, when duty cycle is no less than 98 percent.• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW = 11 Hz• VBW = 11 Hz• VBW = 11 Hz• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW = 11 Hz• Detector = Peak <tr< td=""><td></td><td></td></tr<>				
• RBW = 120 KHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 3 MHZ • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Transmitting with GFSK modulation. Final Test Mode: Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.		 Trace mode = max hold 		
• VBW = 300 kHz• Detector = Quasi-peak• Trace mode = max holdPeak Measurements Above 1000 MHz• RBW = 1 MHz• VBW ≥ 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max holdAverage Measurements Above 1000MHz• RBW = 1 MHz• VBW ≥ 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max holdAverage Measurements Above 1000MHz• RBW = 1 MHz• VBW ≥ 1/T, when duty cycle is no less than 98 percent.• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.Exploratory Test Mode:Transmitting with GFSK modulation. Charge + Transmitting mode.Final Test Mode:Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.		Measurements Below 1000MHz		
 Detector = Quasi-peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Transmitting with GFSK modulation. Charge + Transmitting mode. Final Test Mode: Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.		• RBW = 120 kHz		
 Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Transmitting with GFSK modulation. Charge + Transmitting mode. Final Test Mode: Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report. 		• VBW = 300 kHz		
Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Transmitting with GFSK modulation. Charge + Transmitting mode. Final Test Mode: Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.		 Detector = Quasi-peak 		
 RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Transmitting with GFSK modulation. Charge + Transmitting mode. Final Test Mode: Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report. 		 Trace mode = max hold 		
 VBW ≥ 3 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Transmitting with GFSK modulation. Charge + Transmitting mode. Final Test Mode: Final Test the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.		Peak Measurements Above 1000 MHz		
 Detector = Peak Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Transmitting with GFSK modulation. Charge + Transmitting mode. Final Test Mode: Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report. 		• RBW = 1 MHz		
 Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Transmitting with GFSK modulation. Charge + Transmitting mode. Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report. 		• VBW ≥ 3 MHz		
• Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.Exploratory Test Mode:Transmitting with GFSK modulation. Charge + Transmitting mode.Final Test Mode:Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.		Detector = Peak		
Average Measurements Above 1000MHz• RBW = 1 MHz• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.Exploratory Test Mode:Transmitting with GFSK modulation. Charge + Transmitting mode.Final Test Mode:Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.		Sweep time = auto		
 RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Transmitting with GFSK modulation. Charge + Transmitting mode. Final Test Mode: Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report. 		Trace mode = max hold		
• VBW = 10 Hz, when duty cycle is no less than 98 percent.• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.Exploratory Test Mode:Transmitting with GFSK modulation. Charge + Transmitting mode.Final Test Mode:Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.		Average Measurements Above 1000MHz		
• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Transmitting with GFSK modulation. Charge + Transmitting mode. Final Test Mode: Transmitting with GFSK modulation. Charge + Transmitting mode. Final Test Mode: Transmitting with GFSK modulation. Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.		• RBW = 1 MHz		
transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.Exploratory Test Mode:Transmitting with GFSK modulation. Charge + Transmitting mode.Final Test Mode:Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.		 VBW = 10 Hz, when duty cycle is no less than 98 percent. 		
maximum power control level for the tested mode of operation.Exploratory Test Mode:Transmitting with GFSK modulation. Charge + Transmitting mode.Final Test Mode:Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.		 VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum 		
Exploratory Test Mode: Transmitting with GFSK modulation. Charge + Transmitting mode. Final Test Mode: Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.				
Mode: Charge + Transmitting mode. Final Test Mode: Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.		maximum power control level for the tested mode of operation.		
Final Test Mode: Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.	Exploratory Test	Transmitting with GFSK modulation.		
Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.	Mode:	Charge + Transmitting mode.		
For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.	Final Test Mode:	Transmitting with GFSK modulation.		
the worst case is recorded in the report.		Pretest the EUT at Charge + Transmitting mode,		
the worst case is recorded in the report.				
In a transmission of the section of				
Instruments Used: Refer to Section 6 for details	Instruments Used:	Refer to section 6 for details		
Test Results: Pass	Test Results:	Pass		
The detailed test data see: Appendix	The detailed test data	see: Appendix		



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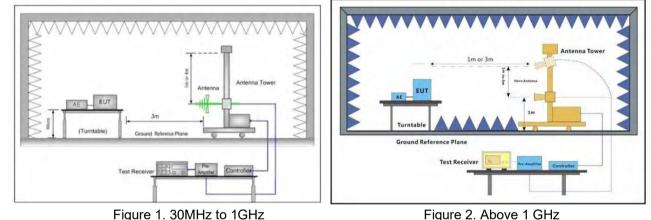
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205			
Test Method:	ANSI C63.10-2020 Section 11.12			
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)			
Limit:	Frequency	Limit (dBuV/m)	Remark	
	30MHz-88MHz	40.0	Quasi-peak	
	88MHz-216MHz	43.5	Quasi-peak	
	216MHz-960MHz	46.0	Quasi-peak	
	960MHz-1GHz	54.0	Quasi-peak	
	Above 1GHz	54.0	Average Value	
	Above IGHZ	74.0	Peak Value	

Test Setup:



i igure		
Test Procedure:	above the ground	he EUT was placed on the top of a rotating table 0.8 meters at a 3 or 10 meter semi-anechoic camber. The table was es to determine the position of the highest radiation.
	meters above the	he EUT was placed on the top of a rotating table 1.5 ground at a 3 meter semi-anechoic camber. The table was es to determine the position of the highest radiation.
		3 or 10 meters away from the interference-receiving is mounted on the top of a variable-height antenna tower.
	to determine the m	It is varied from one meter to four meters above the ground naximum value of the field strength. Both horizontal and ns of the antenna are set to make the measurement.
	then the antenna v	ed emission, the EUT was arranged to its worst case and was tuned to heights from 1 meter to 4 meters and the s turned from 0 degrees to 360 degrees to find the
	f. The test-receiver s	system was set to Peak Detect Function and Specified



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Test Configuration:	 Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Quasi-peak Trace mode = max hold
	 Hace mode – max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix
1	



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty			
1	Radio Frequency	± 7.25 x 10 ⁻⁸ GHz			
2	Duty cycle	± 0.37%			
3	Occupied Bandwidth	± 0.2%			
4	RF conducted power	± 0.21dB			
5	RF power density	± 2.84dB			
6	Conducted Spurious emissions	± 0.75dB			
7	Conduction Emission ± 3.0dB (150kHz to 30MHz)				
8		± 4.6dB (9kHz to 30MHz)			
		± 4.9dB (30MHz to 1GHz)			
	Radiated Emission	± 4.9dB (1GHz to 6GHz)			
		± 4.7dB (6GHz to 18GHz)			
		± 5.26dB (Above 18GHz)			
Remark: The U _{lab} (lab Uncertainty) is less than U _{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.					



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6 Equipment List

RF Test System							
Test Equipment	Manufacturer	Model No.	Model No. Inventory No.		Cal.Due date (yyyy/mm/dd)		
MXA signal analyzer	Agilent	N9020A	XAW01-06-07	2023/02/16	2024/02/15		
MXG vector signal Generator	Agilent	N5182B	XAW01-07-16	2023/02/16	2024/02/15		
Measurement Software	Tonscend	JS1120-3 (3.2.18)	XAW02-14-01	NCR	NCR		
RF control unit	Tonscend	JS0806-2	XAW03-37-01	NCR	NCR		
Power Meter	Anritsu	ML2495A	XAW01-25-03	2023/02/16	2024/02/15		
Power Supply	Agilent	66311B	XAW01-17-01	2023/02/16	2024/02/15		
Temperature and humidity meter	MingGao	T809	XAW01-01-16	2022/09/18	2023/09/17		

CE Test System							
Test Equipment Manufacture		Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A		
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07		
Artificial network*	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2022/06/30	2023/06/29		
				2023/06/30	2024/06/29		
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17		
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR		
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15		
Artificial network*		ENV216	XAW01-04-02	2022/06/30	2023/06/29		
Artificial network	ROHDE&SCHWARZ		AAVV01-04-02	2023/06/30	2024/06/29		

Note*: This equipment is not used on 2023/06/30.



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RSE Test System							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/d d)	Cal.Due date (yyyy/mm/d d)		
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08		
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15		
Spectrum Analyzer	ROHDE &SCHWARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14		
Test receiver	ROHDE &SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07		
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27		
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27		
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22		
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR		
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR		
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR		
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR		
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14		
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2022/09/14	2023/09/13		
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2022/09/14	2023/09/13		
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2022/09/14	2023/09/13		
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17		
Radio communication analyzer	ROHDE&SCH WARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15		
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR		
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25		



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS (6 dB) Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	2402	0.664	2401.704	2402.368	0.5	PASS	
BLE_1M	BLE_1M Ant0	2440	0.660	2439.708	2440.368	0.5	PASS
	2480	0.676	2479.704	2480.380	0.5	PASS	
BLE_2M Ant0	2402	1.164	2401.460	2402.624	0.5	PASS	
	Ant0	2440	1.092	2439.476	2440.568	0.5	PASS
		2480	1.132	2479.496	2480.628	0.5	PASS



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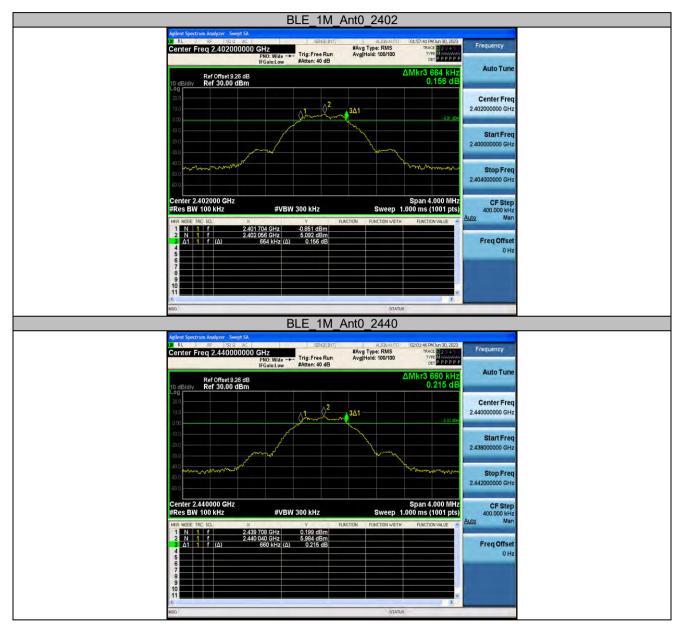
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Test Graphs





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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
BLE_1M	Ant0	2402	1.0220	2401.5351	2402.5571	Г.e.т
		2440	1.0262	2439.5355	2440.5617	
		2480	1.0203	2479.5355	2480.5558	For Report
BLE_2M	Ant0	2402	2.0119	2401.0513	2403.0632	Purpose
		2440	2.0216	2439.0442	2441.0658	i uipose
		2480	2.0195	2479.0469	2481.0664	



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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
		2402	6.02	≤30.00	PASS
BLE_1M	Ant0	2440	6.51	≤30.00	PASS
		2480	6.89	≤30.00	PASS
		2402	6.29	≤30.00	PASS
BLE_2M	Ant0	2440	6.75	≤30.00	PASS
		2480	7.15	≤30.00	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2402	-9.12	≤8.00	PASS
BLE_1M	Ant0	2440	-8.07	≤8.00	PASS
		2480	-7.32	≤8.00	PASS
		2402	-11.96	≤8.00	PASS
BLE_2M	Ant0	2440	-11.03	≤8.00	PASS
		2480	-10.09	≤8.00	PASS



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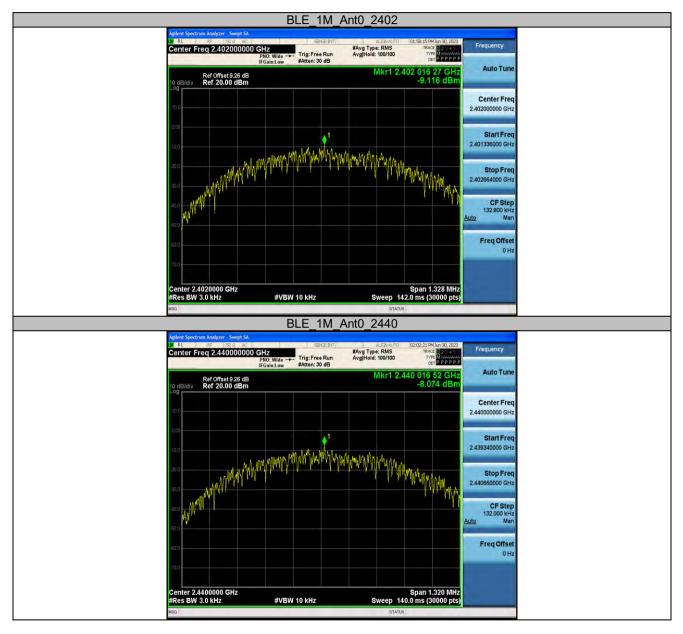
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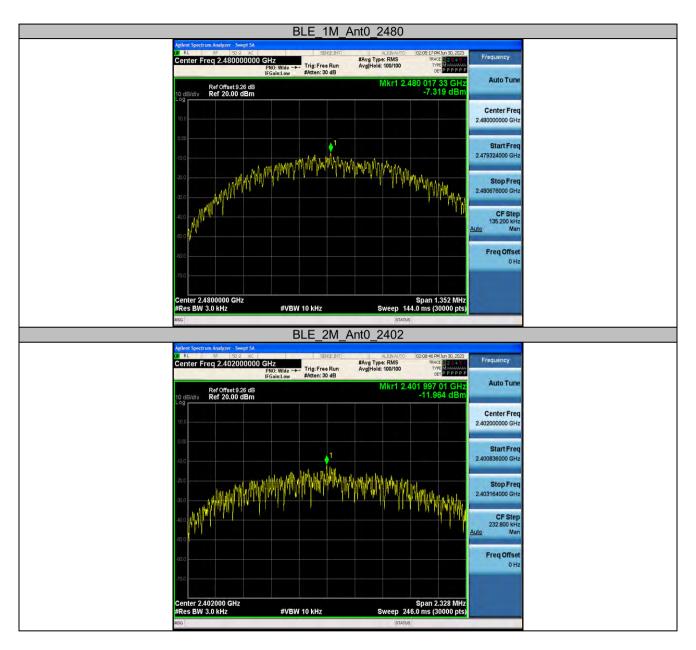
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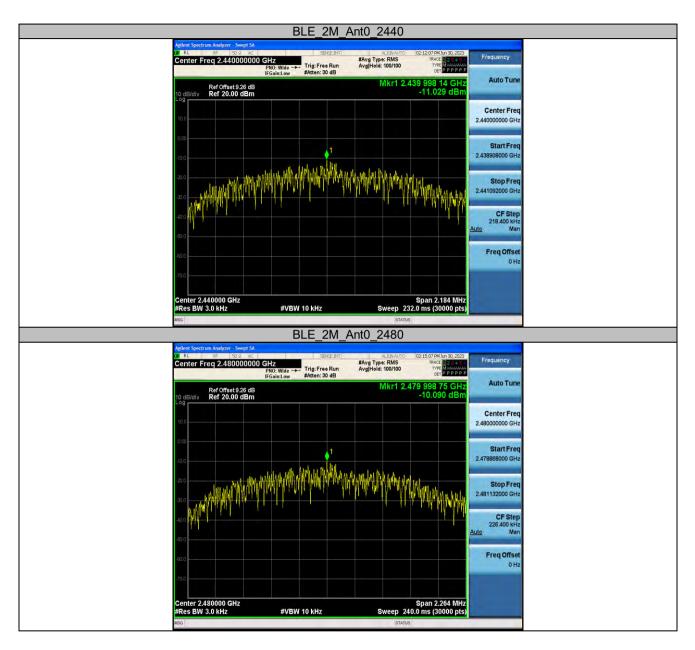
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Band-edge for RF Conducted Emissions

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE 1M	Ant0	Low	2402	4.96	-49.68	≤-15.04	PASS
DLE_1W	Anto	High	2480	6.69	-49.39	≤-13.31	PASS
BLE 2M	Ant0	Low	2402	2.27	-42.08	≤-17.73	PASS
	Anto	High	2480	7.16	-48.77	≤-12.84	PASS



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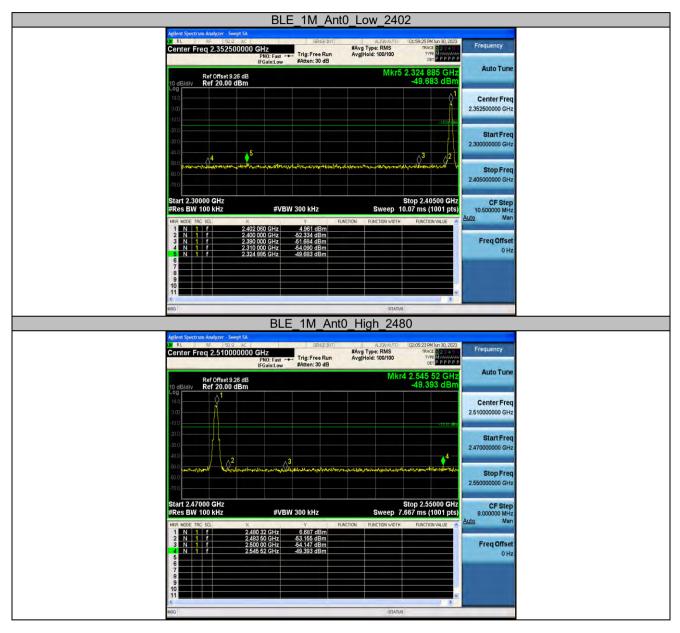
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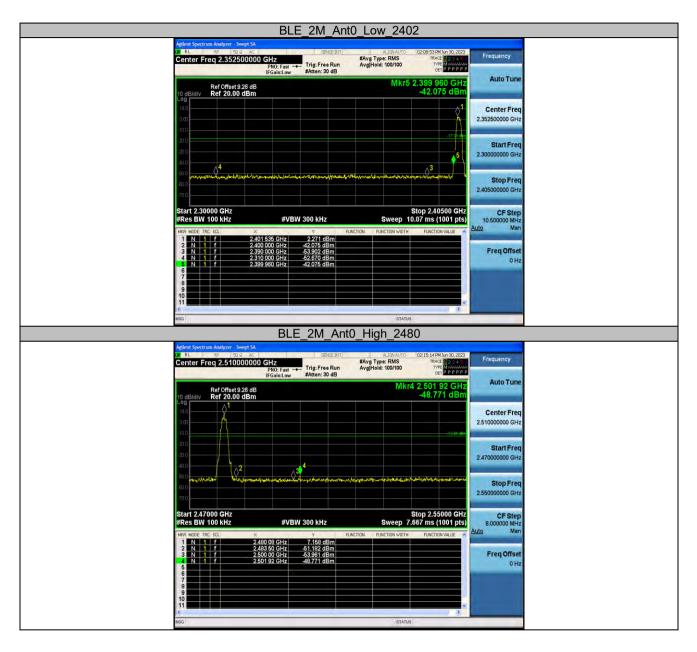
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RF Conducted Spurious Emissions Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
			Reference	4.18	4.18		PASS
		2402	30~1000	4.18	-60.52	≤-15.82	PASS
			1000~26500	4.18	-45.65	≤-15.82	PASS
			Reference	5.39	5.39		PASS
BLE_1M	Ant0	2440	30~1000	5.39	-59.9	≤-14.61	PASS
			1000~26500	5.39	-45.67	≤-14.61	PASS
			Reference	5.78	5.78		PASS
		2480	30~1000	5.78	-60.26	≤-14.22	PASS PASS PASS PASS PASS PASS PASS
			1000~26500	5.78	-45.16	≤-14.22	PASS
			Reference	2.38	2.38		PASS
		2402	30~1000	2.38	-59.92	≤-17.62	PASS
			1000~26500	2.38	-45.69	≤-17.62	PASS
			Reference	5.96	5.96		PASS
BLE_2M	Ant0	2440	30~1000	5.96	-60.59	≤-14.04	PASS
_			1000~26500	5.96	-45.57	≤-14.04	PASS
		2480	Reference	3.39	3.39		PASS
			30~1000	3.39	-60.23	≤-16.61	PASS
			1000~26500	3.39	-46.09	≤-16.61	PASS



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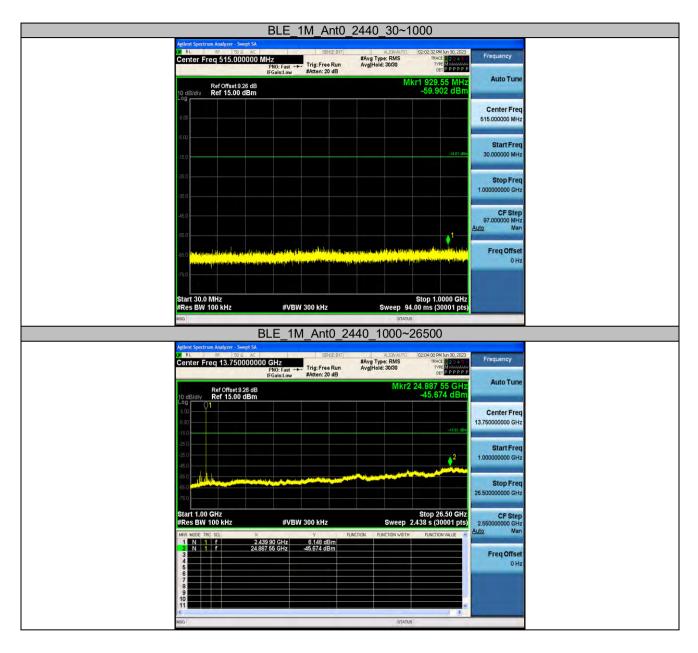
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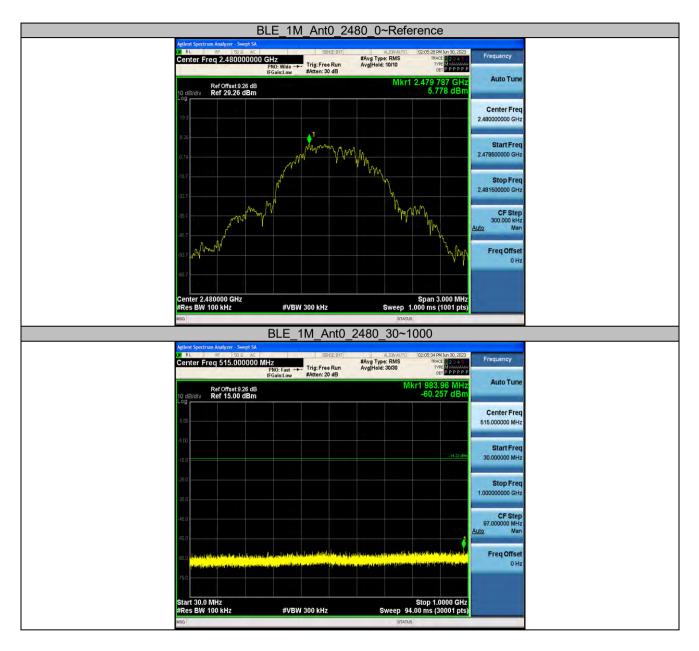
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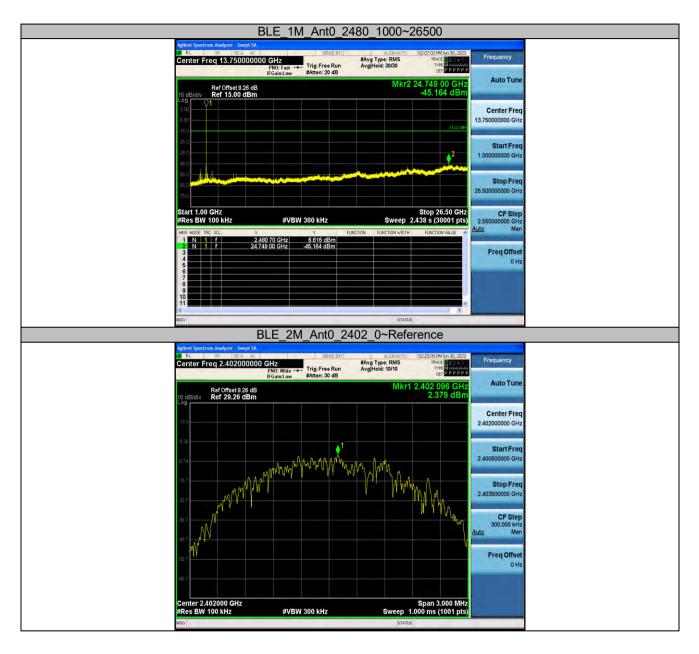
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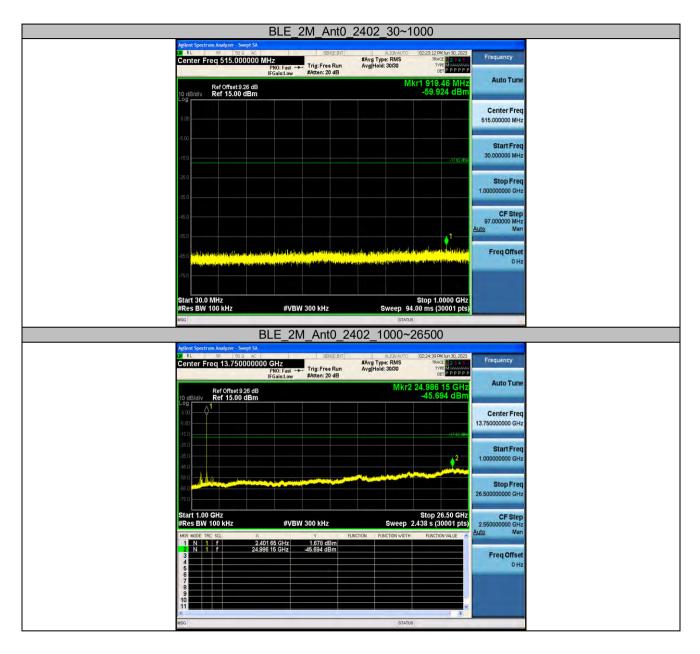
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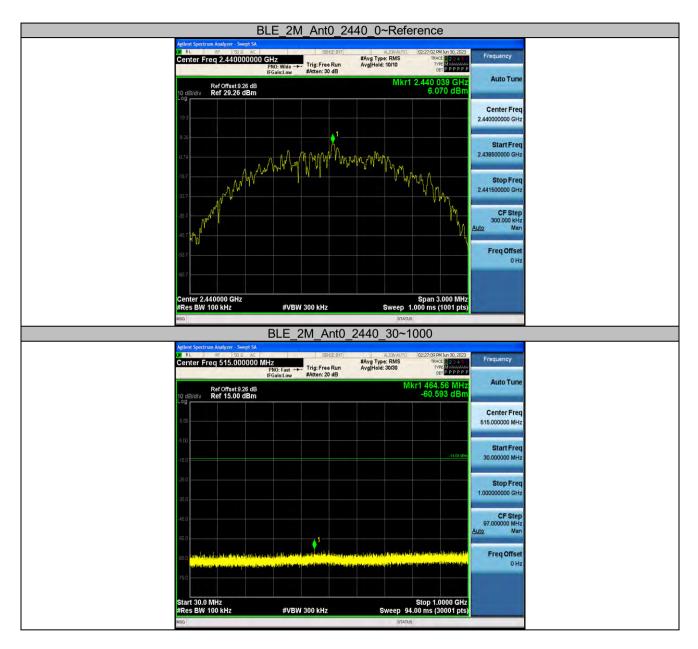
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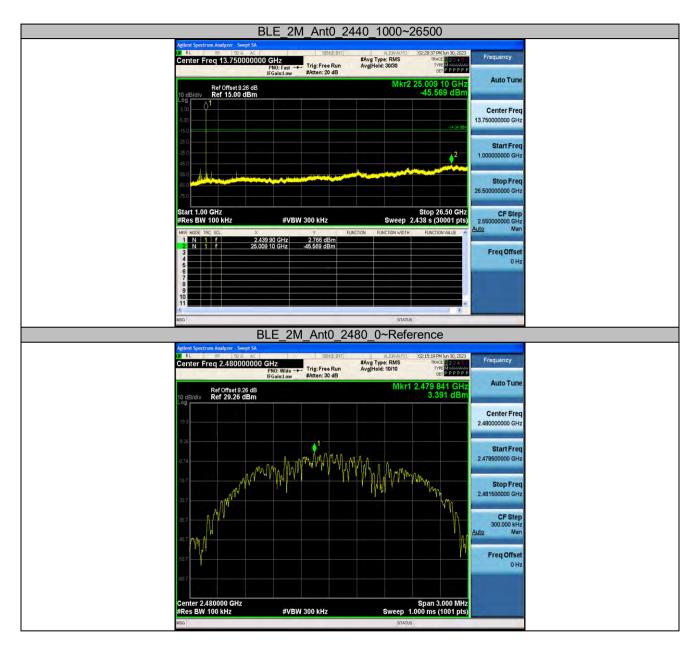
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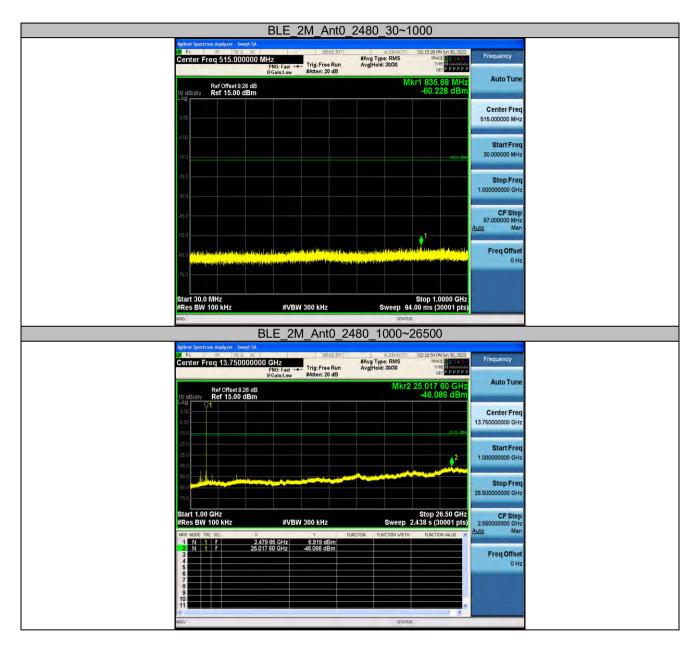
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
		2402	0.39	0.63	61.90	2.08
BLE_1M	BLE 1M Ant0	2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08
		2402	0.21	0.63	33.33	4.77
BLE_2M	Ant0	2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
BLE_1M	0.39	0.63	61.90	2.56410	2.7KHz
BLE_2M	0.21	0.63	33.33	4.76190	5.1KHz



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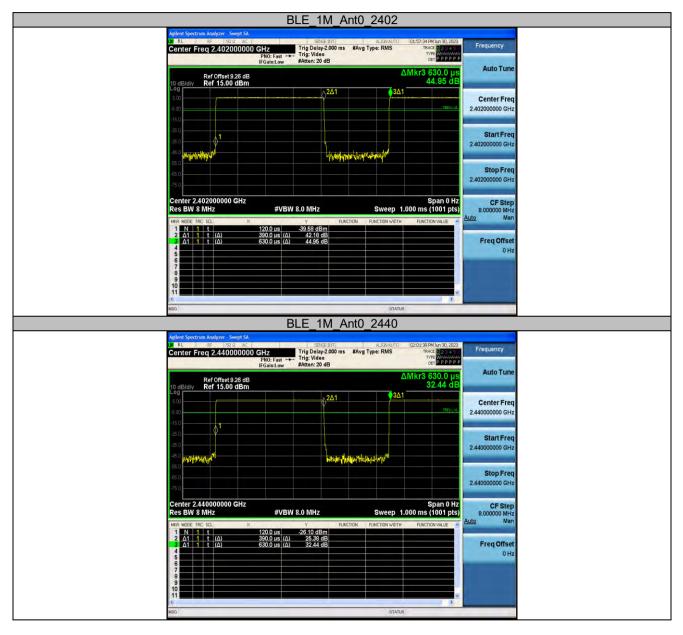
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Test Graphs





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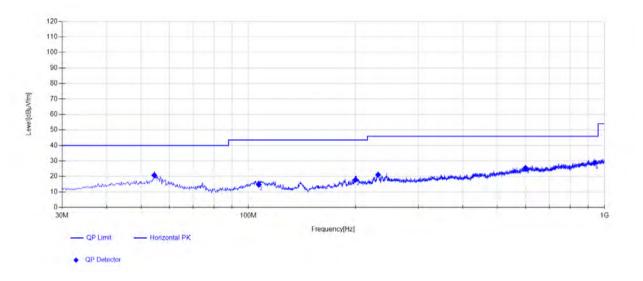
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE_1M_Channel 39



Data	Data List										
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	54.444	13.96	-35.90	42.67	20.73	40.00	19.27	221	107	Horizontal	
2	107.018	13.09	-34.69	36.31	14.71	43.50	28.79	246	231	Horizontal	
3	199.944	16.30	-34.32	35.92	17.90	43.50	25.60	118	164	Horizontal	
4	231.372	12.15	-33.88	42.82	21.09	46.00	24.91	105	264	Horizontal	
5	599.972	18.30	-31.31	38.46	25.45	46.00	20.55	298	188	Horizontal	
6	937.532	21.45	-29.49	36.69	28.65	46.00	17.35	177	195	Horizontal	



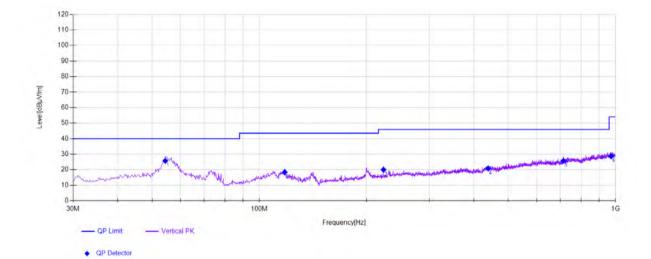
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Data	List									
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.444	13.96	-35.90	47.66	25.72	40.00	14.28	119	106	Vertical
2	117.882	11.11	-34.69	41.99	18.41	43.50	25.09	233	342	Vertical
3	223.224	11.00	-33.53	42.53	20.00	46.00	26.00	187	254	Vertical
4	438.952	15.64	-32.38	37.57	20.83	46.00	25.17	222	254	Vertical
5	714.626	18.88	-30.65	37.55	25.78	46.00	20.22	233	342	Vertical
6	972.258	21.65	-29.01	36.05	28.69	54.00	25.31	328	48	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

 $Margin = Limit(dB\mu V/m) - Value(dB\mu V/m)$

2) All channels have been tested, but only the worst case data displayed in this report.



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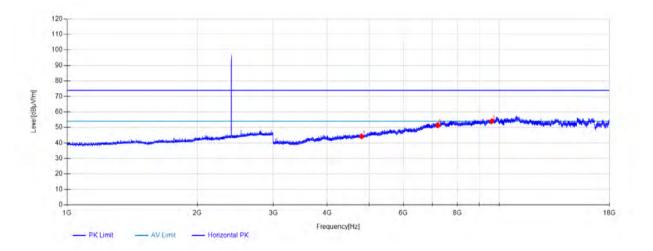
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Transmitter emission Above 1GHz BLE 1M_Channel 0



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4804	56.32	30.78	-42.95	44.15	74.00	29.85	289	126	Horizontal	
2	7206	53.45	36.56	-38.71	51.30	74.00	22.70	332	222	Horizontal	
3	9608	51.87	37.85	-35.70	54.02	74.00	19.98	178	264	Horizontal	



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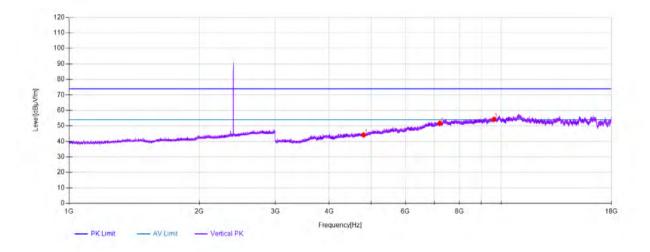
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 XEWA2306000055RG02

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BLE 1M_Channel 0



Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	56.34	30.78	-42.95	44.17	74.00	29.83	345	174	Vertical
2	7206	53.82	36.56	-38.71	51.67	74.00	22.33	399	78	Vertical
3	9608	52.08	37.85	-35.70	54.23	74.00	19.77	301	289	Vertical



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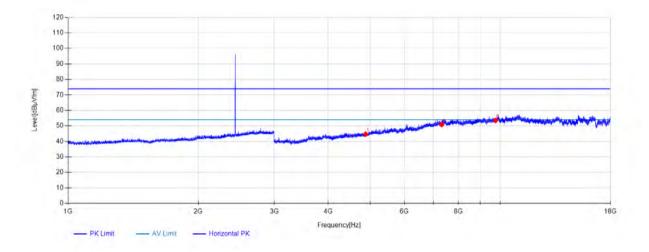
17. httl:D.bblingting(Kangking)CargesSaincePark, McI37,Keysan3rd Road, Fangdong New Tourt, Xhar, Shearni, China 710086 中国 • 西安 • 沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

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 XEWA2306000055RG02

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BLE 1M_Channel 19



Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	56.80	30.78	-42.89	44.69	74.00	29.31	233	88	Horizontal
2	7320	53.19	36.44	-38.76	50.87	74.00	23.13	324	10	Horizontal
3	9760	51.19	38.34	-35.97	53.56	74.00	20.44	196	202	Horizontal



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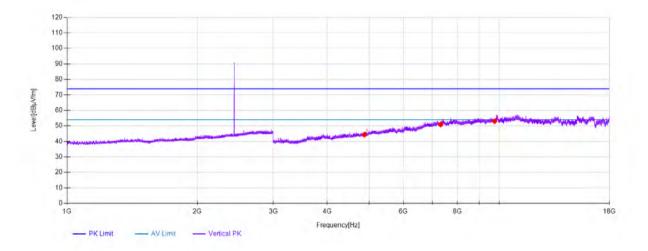
15. futb.15. bilding 1. Kangting Carge Soince Park, No.137. Keyaan 3rd Road, Fengdong New Tom, Xiat, Shearui, China 710086 中国 - 西安 - 沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

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BLE 1M_Channel 19



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4880	56.50	30.78	-42.89	44.39	74.00	29.61	399	216	Vertical			
2	7320	53.16	36.44	-38.76	50.84	74.00	23.16	244	107	Vertical			
3	9760	50.68	38.34	-35.97	53.05	74.00	20.95	229	210	Vertical			



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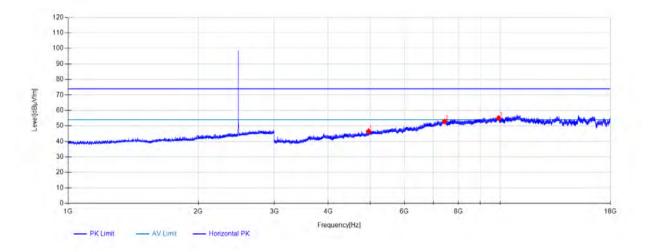
17. httl:D.bilding 1. Kanging Carge Soince Park, No.137. Keysan 3rd Road, Fengdong New Town, Xiar, Shearni, China 710086 中国 - 西安 - 沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编:710086

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BLE 1M_Channel 39



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960	58.27	31.04	-42.78	46.53	74.00	27.47	366	97	Horizontal			
2	7440	54.45	36.78	-38.28	52.95	74.00	21.05	334	10	Horizontal			
3	9920	51.92	38.62	-35.49	55.05	74.00	18.95	177	30	Horizontal			



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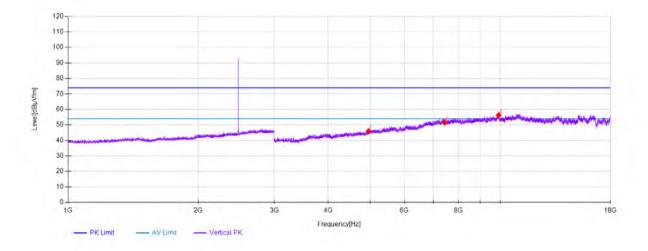
17. httl: D.bilding 1. Kanginong Orange Solance Park, Mu.137. Keysan 3rd Road, Fengdong New Town, Xiar, Shearni, China 710086 中国 - 西安 - 沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编:710086

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BLE 1M_Channel 39



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4960	57.83	31.04	-42.78	46.09	74.00	27.91	201	184	Vertical		
2	7440	52.94	36.78	-38.28	51.44	74.00	22.56	118	126	Vertical		
3	9920	53.21	38.62	-35.49	56.34	74.00	17.66	332	232	Vertical		



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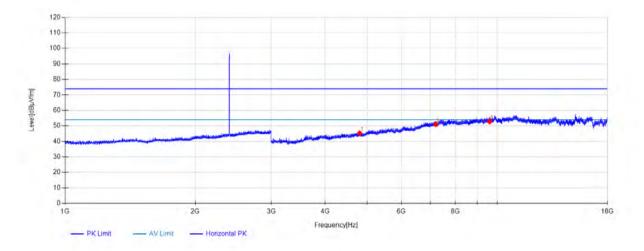
17. Lwh D, Bulding 1, Kanghong Orange Salence Perk, No.137. Keyaan 3rd Road, Fengdong New Town, Xiau, Sheami, China 710086 中国 • 西安 • 沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

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BLE 2M_Channel 0



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4804	57.49	30.78	-42.95	45.32	74.00	28.68	222	307	Horizontal			
2	7206	53.13	36.56	-38.71	50.98	74.00	23.02	357	289	Horizontal			
3	9608	50.69	37.85	-35.70	52.84	74.00	21.16	148	278	Horizontal			



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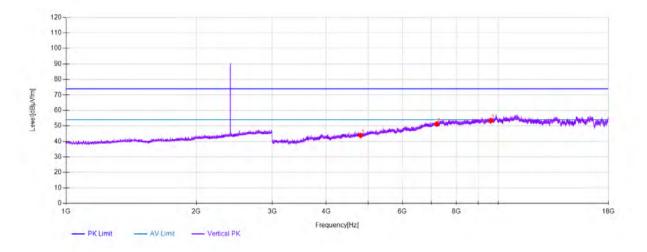
15. funt D.bilding 1. Kangking Orange Solance Park, Mu.137. Keyuan 3rd Road, Fengdong New Toure, Xian, Shaami, China 710086 中国 - 西安 - 沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

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BLE 2M_Channel 0



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4804	56.04	30.78	-42.95	43.87	74.00	30.13	255	241	Vertical			
2	7206	53.32	36.56	-38.71	51.17	74.00	22.83	149	270	Vertical			
3	9608	51.20	37.85	-35.70	53.35	74.00	20.65	263	87	Vertical			



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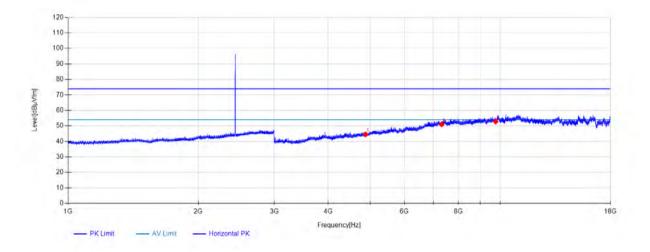
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 XEWA2306000055RG02

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BLE 2M_Channel 19



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4880	56.64	30.78	-42.89	44.53	74.00	29.47	278	135	Horizontal			
2	7320	53.30	36.44	-38.76	50.98	74.00	23.02	226	174	Horizontal			
3	9760	50.43	38.34	-35.97	52.80	74.00	21.20	321	347	Horizontal			



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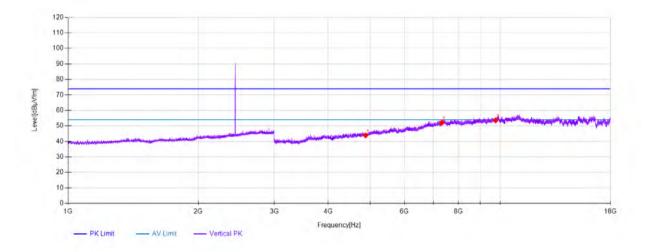
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BLE 2M_Channel 19



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4880	56.02	30.78	-42.89	43.91	74.00	30.09	206	134	Vertical			
2	7320	54.33	36.44	-38.76	52.01	74.00	21.99	332	326	Vertical			
3	9760	51.23	38.34	-35.97	53.60	74.00	20.40	214	146	Vertical			



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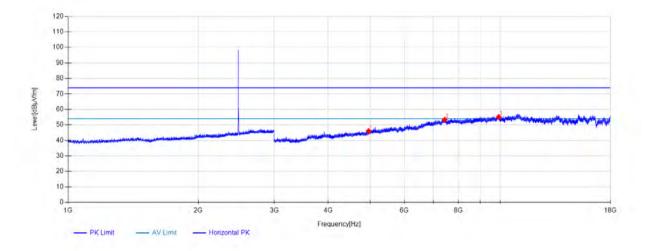
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BLE 2M_Channel 39



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960	57.79	31.04	-42.78	46.05	74.00	27.95	274	68	Horizontal			
2	7440	54.87	36.78	-38.28	53.37	74.00	20.63	336	222	Horizontal			
3	9920	51.97	38.62	-35.49	55.10	74.00	18.90	214	20	Horizontal			



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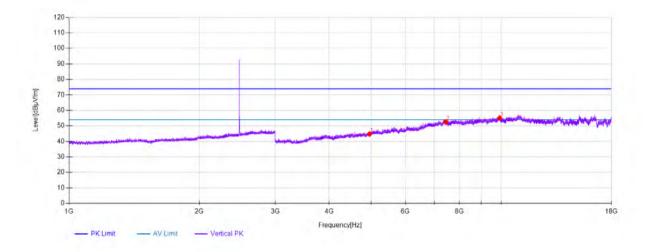
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Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	56.52	31.04	-42.78	44.78	74.00	29.22	146	231	Vertical
2	7440	54.05	36.78	-38.28	52.55	74.00	21.45	301	317	Vertical
3	9920	51.99	38.62	-35.49	55.12	74.00	18.88	224	2	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading(dBµV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

- 2) All channels have been tested, but only the worst case data displayed in this report.
- 3) Both peak and average measured complies with the limit line, so test result is "PASS"



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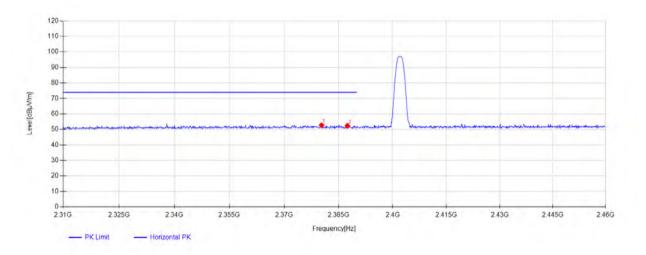
1/F,UnitD,Building 1, Kangkong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xian, Shearni, China: 710086 中国・西安・沣东新城科源三路137号康鸿橙方科技园1号楼D单元1景 邮编: 710086

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Restricted bands around fundamental frequency BLM 1M_Channel 0



Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.3102	48.30	27.48	-23.03	52.75	74.00	21.25	103	101	Horizontal
2	2387.4387	47.91	27.45	-23.02	52.34	74.00	21.66	103	101	Horizontal



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120 110 100 90 80 [m//ulgb]ieve. 70 60 50 40-30-20 10 0. 2.31G 2.325G 2.34G 2.355G 2.37G 2.385G 2.4G 2.415G 2.43G 2.445G 2.46G Frequency[Hz] - AV Limit - Horizontal PK

BLM 1M_Channel 0

Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.7759	27.48	27.55	-23.06	31.97	54.00	22.03	103	101	Horizontal
2	2386.3882	27.83	27.45	-23.02	32.26	54.00	21.74	103	101	Horizontal



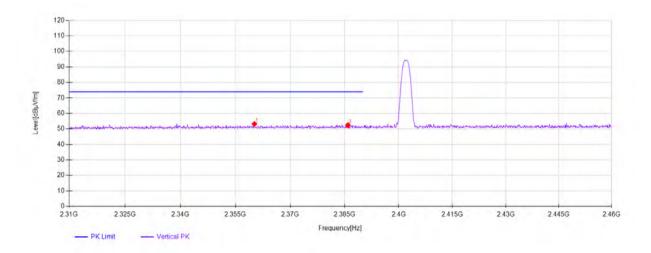
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BLM 1M_Channel 0

Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2360.2001	48.73	27.56	-23.06	53.23	74.00	20.77	333	219	Vertical
2	2385.938	47.95	27.46	-23.02	52.39	74.00	21.61	333	219	Vertical



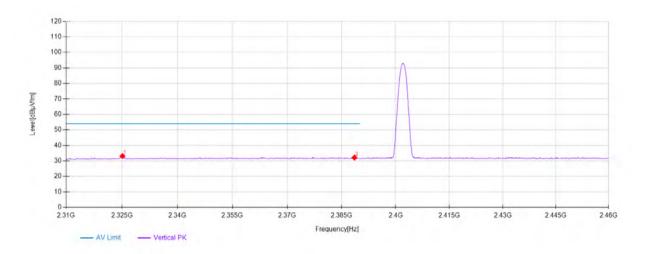
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BLM 1M_Channel 0

Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2325.1576	28.92	27.35	-23.12	33.15	54.00	20.85	333	219	Vertical
2	2388.5643	27.71	27.45	-23.02	32.14	54.00	21.86	333	219	Vertical



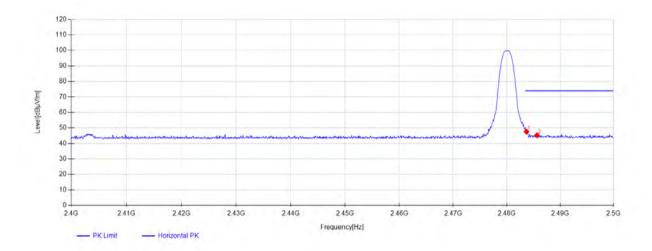
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BLM 1M_Channel 39

Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.6918	42.95	27.73	-23.12	47.56	74.00	26.44	139	102	Horizontal
2	2485.6428	40.64	27.74	-23.12	45.26	74.00	28.74	139	102	Horizontal



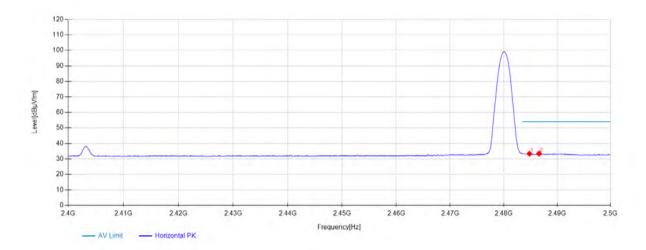
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Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.7924	28.76	27.74	-23.12	33.38	54.00	20.62	139	102	Horizontal
2	2486.5933	28.86	27.75	-23.12	33.49	54.00	20.51	139	102	Horizontal



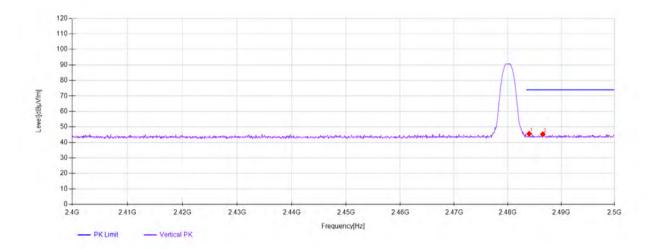
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BLM 1M_Channel 39

Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.992	40.95	27.74	-23.12	45.57	74.00	28.43	111	90	Vertical		
2	2486.5433	40.62	27.75	-23.12	45.25	74.00	28.75	111	90	Vertical		



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120 110 100 90 80-[m//ul8b]leve_ 70 60-50 40-30-20 10 0. 2.4G 2.41G 2.42G 2.43G 2.44G 2.45G 2.46G 2.47G 2.48G 2.49G 2.5G Frequency[Hz] - AV Limit ---- Vertical PK

BLM 1M_Channel 39

Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.1921	27.72	27.74	-23.12	32.34	54.00	21.66	111	90	Vertical
2	2489.995	28.05	27.76	-23.13	32.68	54.00	21.32	111	90	Vertical



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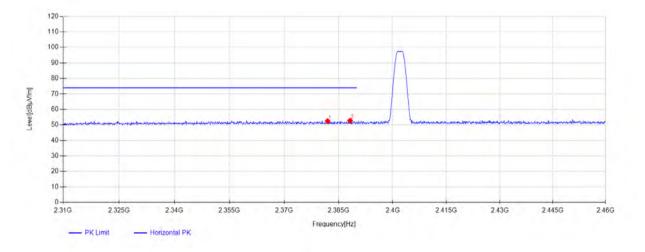
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BLM 2M_Channel 0



Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.961	48.04	27.47	-23.03	52.48	74.00	21.52	120	70	Horizontal
2	2388.1891	48.34	27.45	-23.02	52.77	74.00	21.23	120	70	Horizontal



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120 110 100 90 80 [m//ulgb]ieve. 70 60 50 40-30-20 10 0. 2.31G 2.325G 2.34G 2.355G 2.37G 2.385G 2.4G 2.415G 2.43G 2.445G 2.46G Frequency[Hz] - AV Limit - Horizontal PK

BLM 2M_Channel 0

Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2325.3827	30.36	27.35	-23.12	34.59	54.00	19.41	120	70	Horizontal
2	2386.4632	28.38	27.45	-23.02	32.81	54.00	21.19	120	70	Horizontal



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BLM 2M_Channel 0

Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2383.6868	48.57	27.47	-23.03	53.01	74.00	20.99	345	222	Vertical		
2	2388.2641	48.53	27.45	-23.02	52.96	74.00	21.04	345	222	Vertical		



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120 110 100 90 80 evel[dBµV/m] 70 60 50 40-30-20 10 0. 2.31G 2.325G 2.34G 2.355G 2.37G 2.385G 2.4G 2.415G 2.43G 2.445G 2.46G Frequency[Hz] - AV Limit ---- Vertical PK

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2325.3077	29.55	27.35	-23.12	33.78	54.00	20.22	345	222	Vertical	
2	2387.5888	28.15	27.45	-23.02	32.58	54.00	21.42	345	222	Vertical	
							1				

BLM 2M_Channel 0



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120 110 100 90 80 [m//ulgo]ieve. 70 60-50 40 30 20-10-0. 2.4G 2.41G 2.42G 2.43G 2.44G 2.45G 2.46G 2.47G 2.48G 2.49G 2.5G Frequency[Hz] - PK Limit - Horizontal PK

BLM 2M_Channel 39

Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2483.5918	46.83	27.73	-23.12	51.44	74.00	22.56	332	85	Horizontal	
2	2485.0425	41.69	27.74	-23.12	46.31	74.00	27.69	332	85	Horizontal	



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120 110 100 90 80-[m//ul8b]leve_ 70 60-50 40 30 20-10 0. 2.4G 2.41G 2.42G 2.43G 2.44G 2.45G 2.46G 2.47G 2.48G 2.49G 2.5G Frequency[Hz] - AV Limit - Horizontal PK

BLM 2M_Channel 39

Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2483.5918	31.66	27.73	-23.12	36.27	54.00	17.73	332	85	Horizontal	
2	2487.1936	30.19	27.75	-23.12	34.82	54.00	19.18	332	85	Horizontal	



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120 110 100 90 80 evei[dBµV/m] 70 60-50 40 30 20-10-0 2.4G 2.41G 2.42G 2.43G 2.44G 2.45G 2.46G 2.47G 2.48G 2.49G 2.5G Frequency[Hz] - PK Limit ---- Vertical PK

BLM 2M_Channel 39

Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2483.5418	41.58	27.73	-23.12	46.19	74.00	27.81	350	230	Vertical	
2	2484.7924	40.57	27.74	-23.12	45.19	74.00	28.81	350	230	Vertical	



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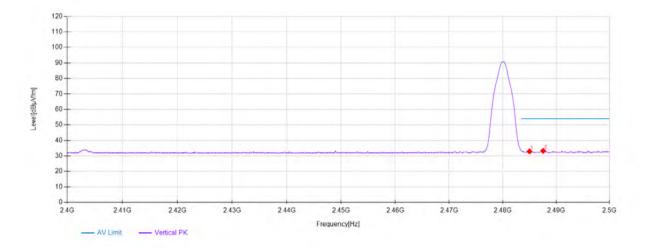
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Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2484.9925	28.30	27.74	-23.12	32.92	54.00	21.08	350	230	Vertical	
2	2487.5438	28.65	27.75	-23.12	33.28	54.00	20.72	350	230	Vertical	

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBµV/m) – Level(dBµV/m)

2) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---



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