

Report No.: XEWM2309000451RG04

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TEST REPORT

Application No.: XEWM2309000451RG

Applicant: Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Address of Applicant:

NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City,

Guangdong, China

Manufacturer: Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Address of Manufacturer: NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City,

Guangdong, China

EUT Description: Mobile Phone

Model No.: CPH2599

Trade Mark: OPPO

FCC ID: R9C-CPH2599

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2023/09/08

Date of Test: 2023/09/11 to 2023/09/29

Date of Issue: 2023/10/20

Test Result : PASS *

Authorized Signature:

Peter Tan Regulatory Technical Manager



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



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1 Version

Revision Record						
Version Chapter Date Modifier Remark						
01		2023/10/20		Original		

Prepared By	(Leah Chen) / Test Engineer
Checked By	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
Duty cycle		ANSI C63.10-2020 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	Conducted Output Power 15.247 (b)(3)		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:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address of Applicant:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
Manufacturer:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address of Manufacturer:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China

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, Keyuan 3rd 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:	Mobile Phone					
Model No.:	CPH2599					
Trade Mark:	OPPO	5 5 5				
Hardware Version:	11					
Software Version:	ColosOS 14.0					
Power Supply:	Li-ion polymer Battery(3.8	9V)				
IMEI:	RF Conducted	865055060031471				
IIVIET.	RSE & AC power line	865055060029756				
Operation Frequency:	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 V5.3					
Modulation Type:	GFSK					
Number of Channel:	40					
Rates Type*:	⊠Provided by client					
Rales Type .	1M PHY 2M PHY					
Antenna Type:	Fixed Internal Antenna					
	0dBi(Ant9)					
Antenna Gain: Note: The antenna gain are derived from the gain information report proby the manufacturer.						
RF Cable:	1.2dB					
Remark:						



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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
BLE 1	IM:
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz
BLE 2	2M:
The Lowest channel(CH1)	2404MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH38)	2478MHz



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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(℃) Voltage(V)				
NTNV	NTNV 22~25 3.89				

Remark:

NV: Normal VoltageNT: Normal Temperature

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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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 be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

The antenna is Fixed Internal Antenna and no consideration of replacement. The best case gain of the antenna is 0dBi(Ant9). *

*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:	Frequency range(MHz)	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. The mains terminal disturbance voltage test was conducted in a shielded room. 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. 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. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between 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. In order to find the maximum emission, the relative positions of equipment 					



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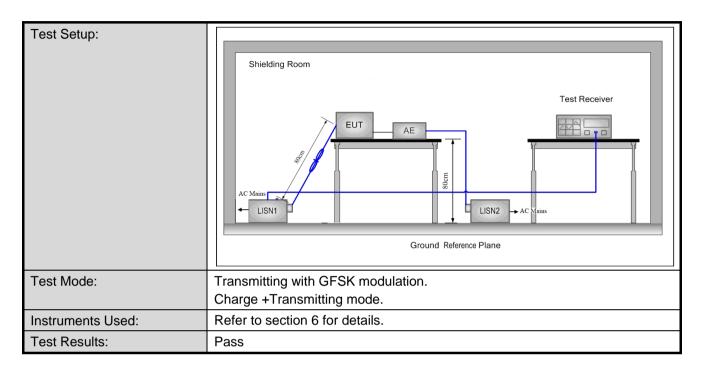
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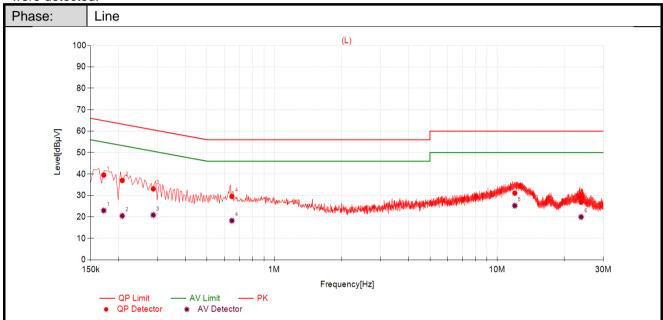
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Measurement Data

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.



Data I	Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1719	9.85	29.68	39.53	64.87	25.34	13.13	22.98	54.87	31.89	PASS
2	0.2081	9.85	27.17	37.02	63.28	26.26	10.65	20.50	53.28	32.78	PASS
3	0.2867	9.90	23.20	33.10	60.62	27.52	10.99	20.89	50.62	29.73	PASS
4	0.6460	9.93	19.64	29.57	56.00	26.43	8.33	18.26	46.00	27.74	PASS
5	12.0176	10.04	21.08	31.12	60.00	28.88	15.21	25.25	50.00	24.75	PASS
6	23.8406	10.28	16.60	26.88	60.00	33.12	9.70	19.98	50.00	30.02	PASS

Remark

- 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[dB μ V] Value[dB μ V]



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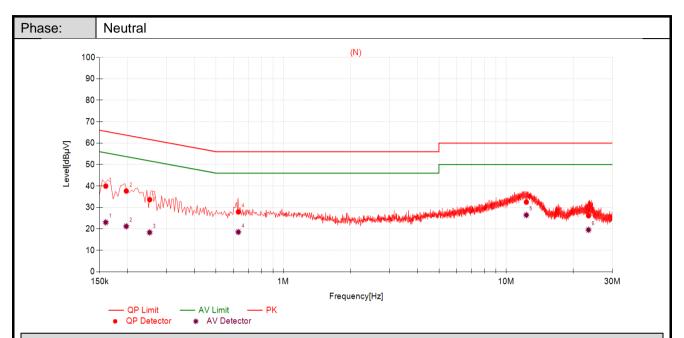
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Final	Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1599	9.79	30.17	39.96	65.47	25.51	13.27	23.06	55.47	32.41	PASS
2	0.1976	9.85	27.81	37.66	63.71	26.05	11.35	21.20	53.71	32.51	PASS
3	0.2517	9.81	23.84	33.65	61.70	28.05	8.53	18.34	51.70	33.36	PASS
4	0.6291	9.85	18.07	27.92	56.00	28.08	8.67	18.52	46.00	27.48	PASS
5	12.3357	10.18	22.31	32.49	60.00	27.51	16.25	26.43	50.00	23.57	PASS
6	23.4498	10.31	15.81	26.12	60.00	33.88	9.23	19.54	50.00	30.46	PASS

Remark

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dB μ V] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dB μ V] Value[dB μ V]



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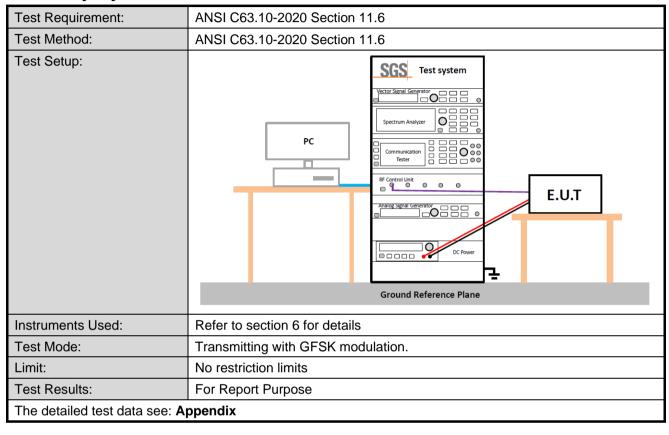


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4.3 Duty Cycle





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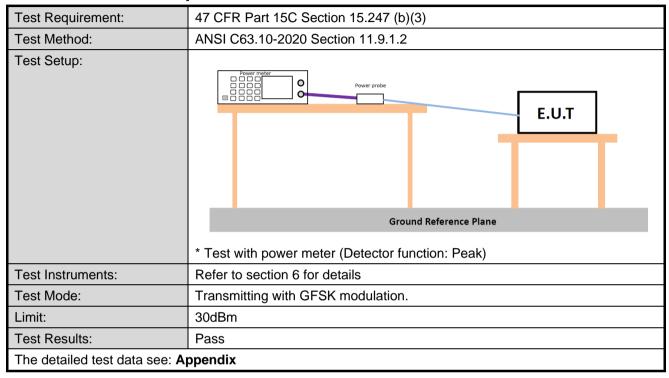


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4.4 Conducted Output Power





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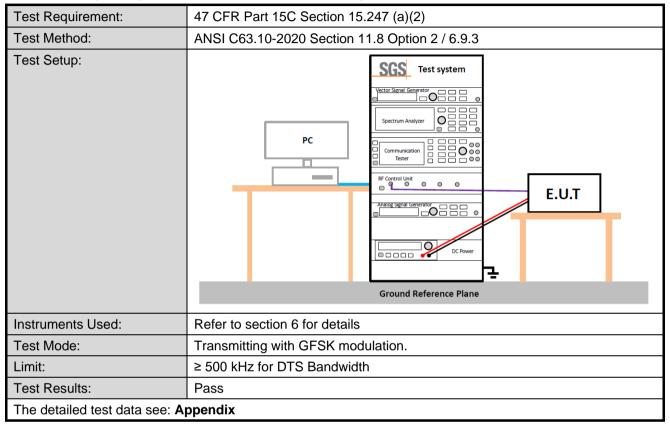


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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth





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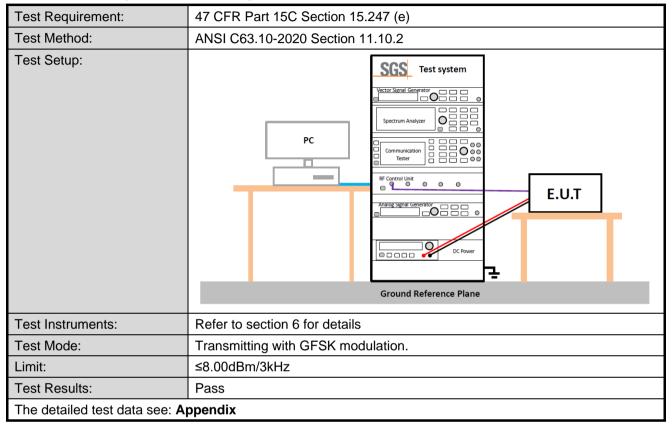


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4.6 Power Spectral Density





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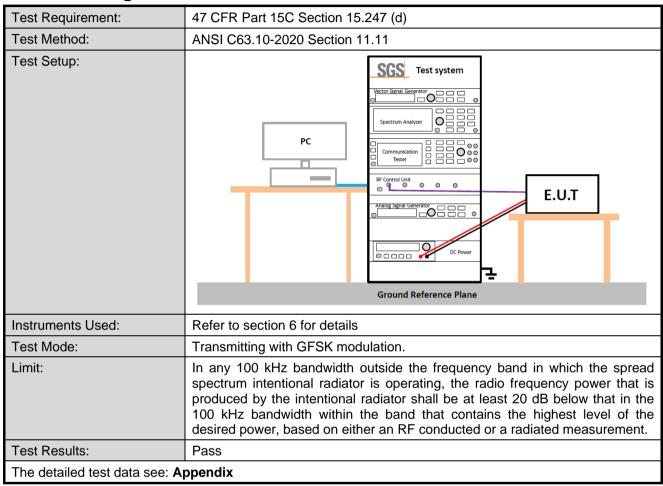


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4.7 Band-edge for RF Conducted Emissions





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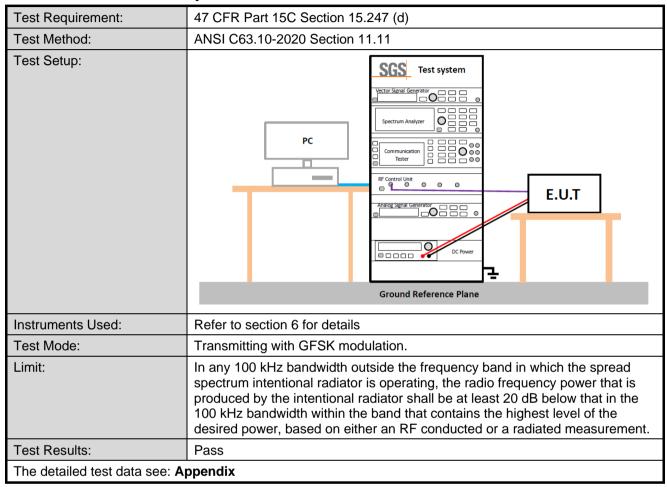


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4.8 RF Conducted Spurious Emissions





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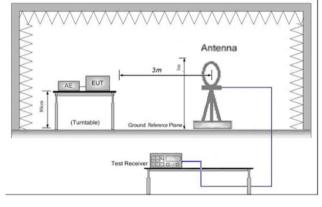
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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	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.						

Test Setup:



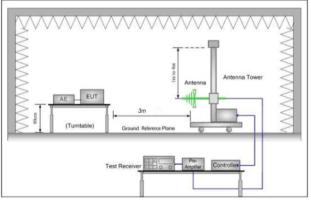


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz



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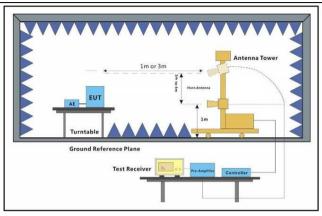


Figure 3. Above 1 GHz

Test Procedure:	a.	For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters
		above the ground at a 3 or 10 meter semi-anechoic camber. The table was
		rotated 360 degrees to determine the position of the highest radiation.
	h	For above 1GHz, the FLIT was placed on the top of a rotating table 1.5 meters

- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.
- j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
- k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
- I. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Test Configuration:

Measurements below 30MHz

- RBW = 10 kHz
- VBW = 30 kHz



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	Data day Data & Assessment & Constituted
	Detector = Peak & Average & Quasi-peak The second
	• Trace mode = max hold
	Measurements Below 1000MHz
	• 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 = 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.
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 all channels, but 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: Appendix



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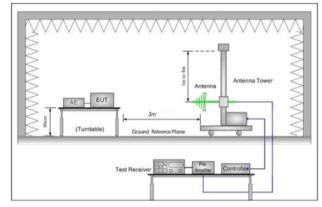
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4.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10-2020 Section	ANSI C63.10-2020 Section 11.12						
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Cham	ber)					
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:



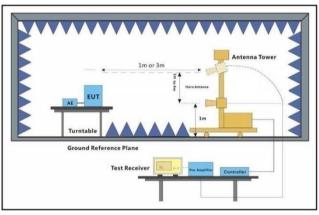


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified



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	 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.
Test Configuration:	 Measurements Below 1000MHz 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 = 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



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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)
		± 4.6dB (9kHz to 30MHz)
		± 4.9dB (30MHz to 1GHz)
8	Radiated Emission	± 4.9dB (1GHz to 6GHz)
		± 4.7dB (6GHz to 18GHz)
		± 5.26dB (Above 18GHz)

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/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. Inventory No.		Cal. date (yyyy/mm/dd)	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	2023/08/30	2024/08/29					
Power Supply	Agilent	66311B	XAW01-17-01	2023/02/16	2024/02/15					
Temperature and humidity meter	MingGao	T809	XAW01-01-16	2023/09/04	2024/09/03					

	CE Test System								
Test Equipment	Manufacturer	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	2023/08/30	2024/08/29				
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2023/06/30	2024/06/29				
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/08/30	2024/08/29				
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	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2023/06/30	2024/06/29				



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RSE Test System									
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)				
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	2023/08/30	2024/08/29				
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	2023/08/30	2024/08/29				
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2023/08/30	2024/08/29				
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2023/08/30	2024/08/29				
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/09/04	2024/09/03				
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 Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.664	2401.672	2402.336	0.5	PASS
BLE_1M	Ant9	2440	0.700	2439.652	2440.352	0.5	PASS
		2480	0.704	2479.652	2480.356	0.5	PASS
BLE_2M		2404	1.236	2403.344	2404.580	0.5	PASS
	Ant9	2440	1.132	2439.460	2440.592	0.5	PASS
		2478	1.136	2477.440	2478.576	0.5	PASS



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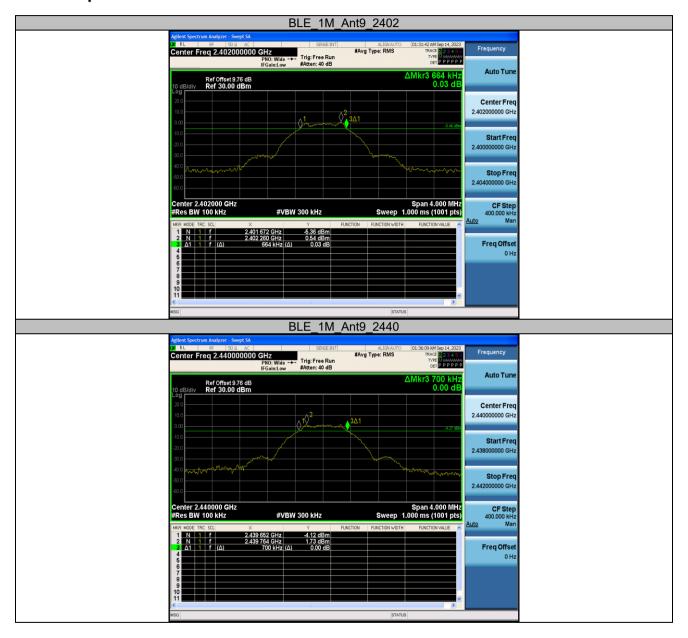


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99% Occupied Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
		2402	1.0406	2401.4906	2402.5312	
BLE_1M	Ant9	2440	1.0261	2439.4953	2440.5214	F
		2480	1.0357	2479.4900	2480.5257	For
		2404	2.0651	2402.9899	2405.0550	Report Purpose
BLE_2M		2440	2.0579	2438.9953	2441.0532	Fulpose
		2478	2.0582	2476.9971	2479.0553	



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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M		2402	1.32	≤30	PASS
	Ant9	2440	2.57	≤30	PASS
		2480	2.18	≤30	PASS
		2404	1.61	≤30	PASS
BLE_2M	Ant9	2440	2.61	≤30	PASS
		2478	2.25	≤30	PASS



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power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE 1M		2402	-15.37	≤8.00	PASS
	Ant9	2440	-13.46	≤8.00	PASS
		2480	-12.86	≤8.00	PASS
	Ant9	2404	-17.25	≤8.00	PASS
BLE_2M		2440	-15.62	≤8.00	PASS
		2478	-15.04	≤8.00	PASS



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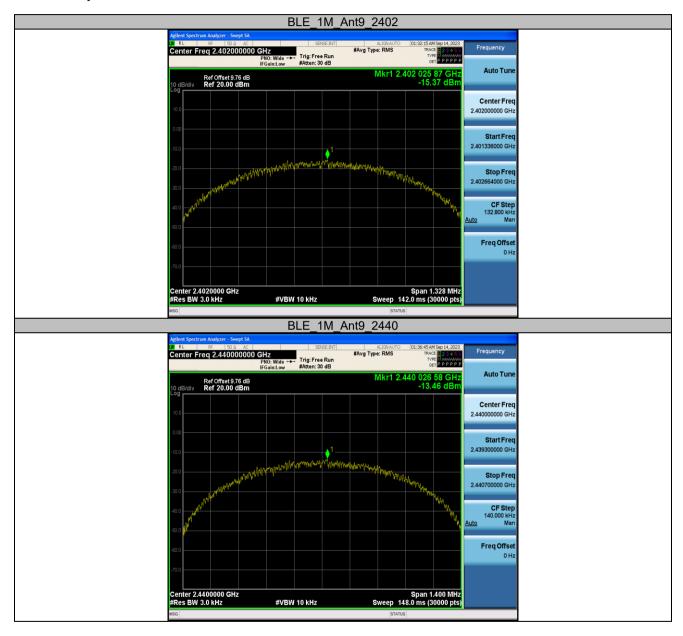


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Test Graphs





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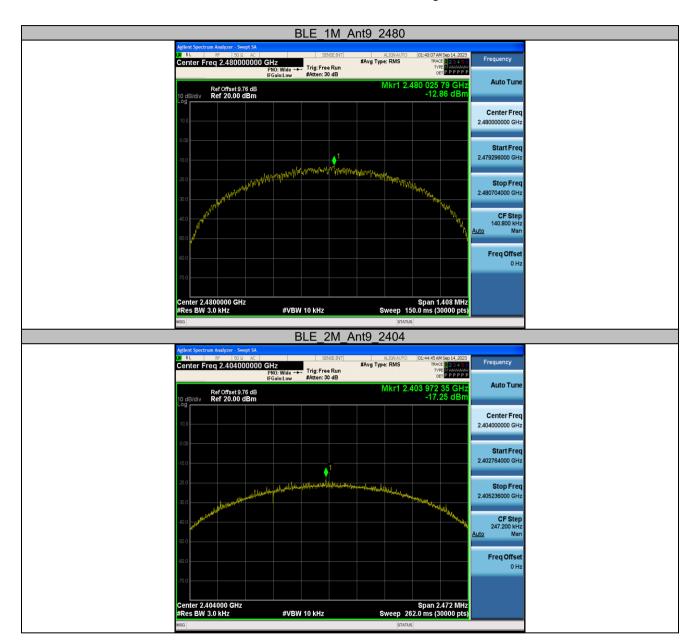
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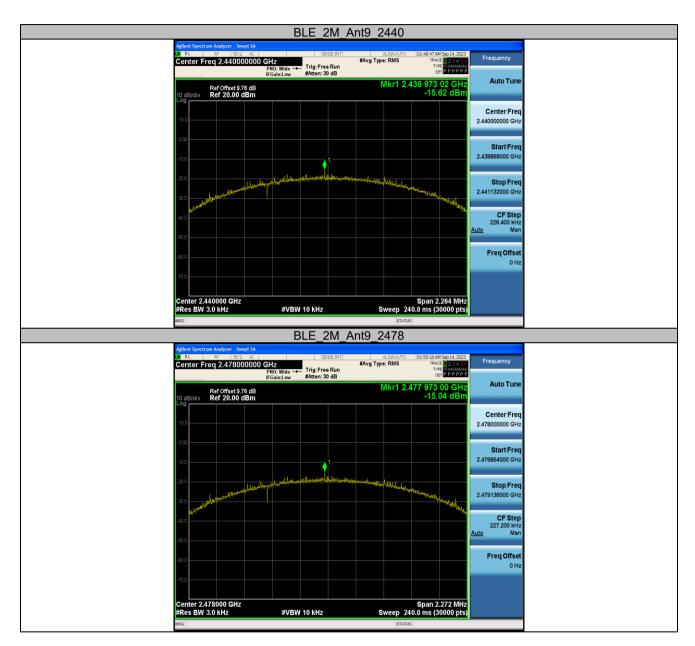
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Band edge measurements Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE 1M Ant9	Ant9	Low	2402	-0.45	-50.23	≤-20.45	PASS
DLE_IIVI	Ante	High	2480	3.11	-46.44	≤-16.9	PASS
BLE_2M A	Ant9	Low	2404	-1.94	-49.62	≤-21.94	PASS
	Ante	High	2478	1.94	-49.82	≤-18.06	PASS



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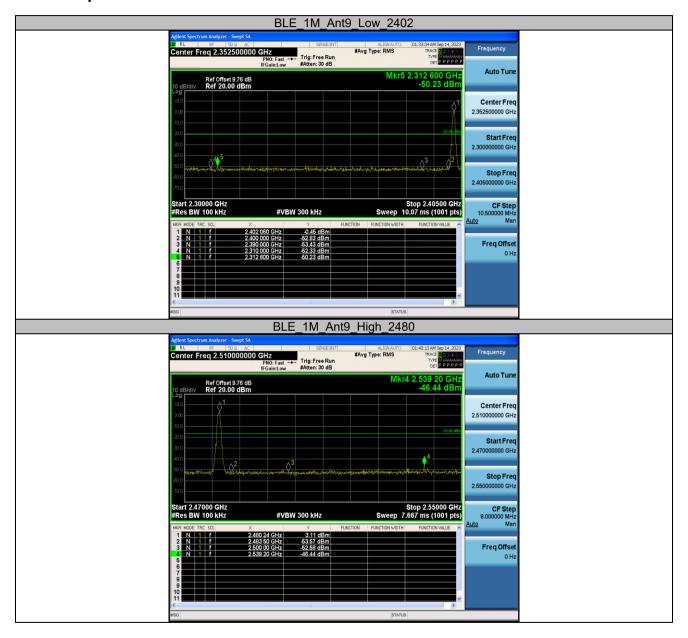


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Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
			Reference	-0.69	-0.69		PASS
		2402	30~1000	-0.69	-60.36	≤-20.69	PASS
			1000~26500	-0.69	-45.26	≤-20.69	PASS
			Reference	1.24	1.24		PASS
BLE_1M	Ant9	2440	30~1000	1.24	-60.13	≤-18.76	PASS
			1000~26500	1.24	-45.66	≤-18.76	PASS
		2480	Reference	1.56	1.56		PASS
			30~1000	1.56	-59.84	≤-18.44	PASS
			1000~26500	1.56	-45.24	≤-18.44	PASS
			Reference	-0.42	-0.42		PASS
		2404	30~1000	-0.42	-59	≤-20.42	PASS
			1000~26500	-0.42	-45.32	≤-20.42	PASS
			Reference	-1.41	-1.41		PASS
BLE_2M	Ant9	2440	30~1000	-1.41	-60.04	≤-21.41	PASS
_			1000~26500	-1.41	-44.85	≤-21.41	PASS
		2478	Reference	-0.01	-0.01		PASS
			30~1000	-0.01	-59.09	≤-20.01	PASS
			1000~26500	-0.01	-42.07	≤-20.01	PASS



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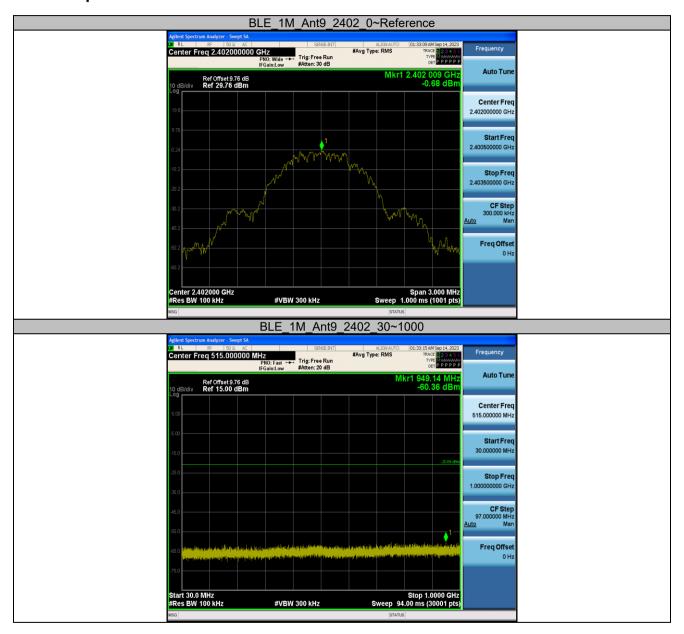


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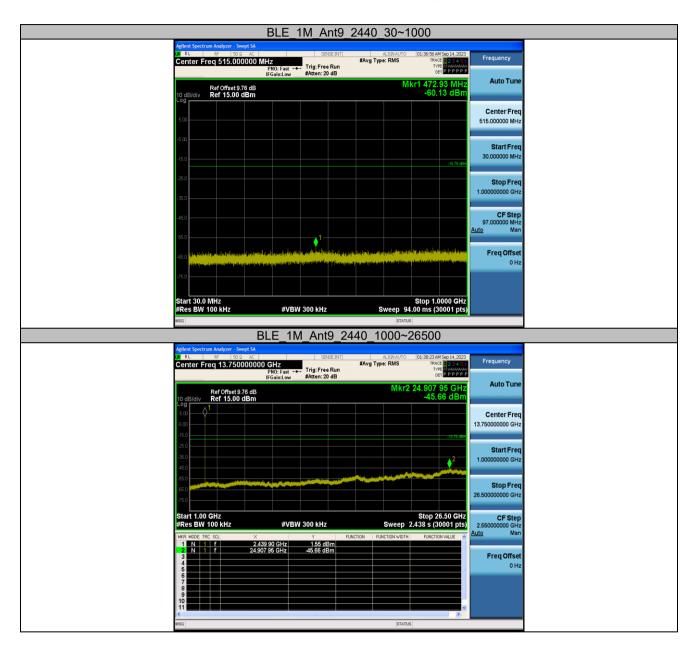
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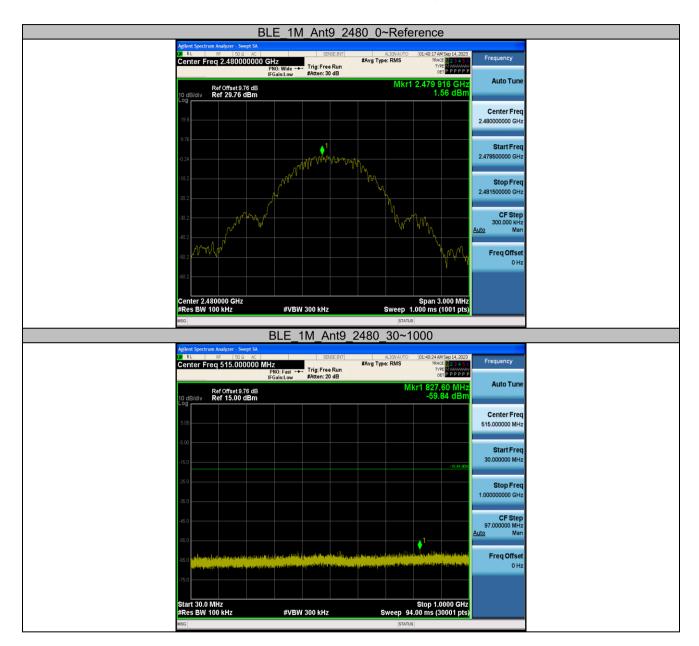
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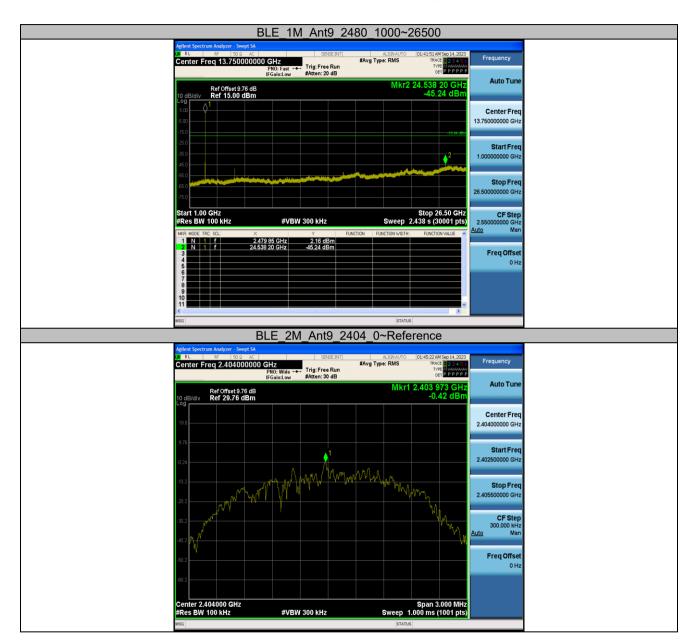
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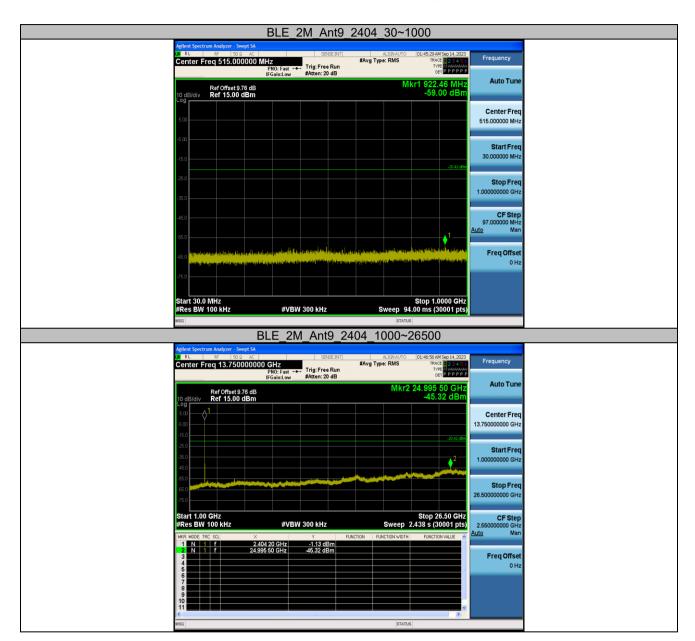
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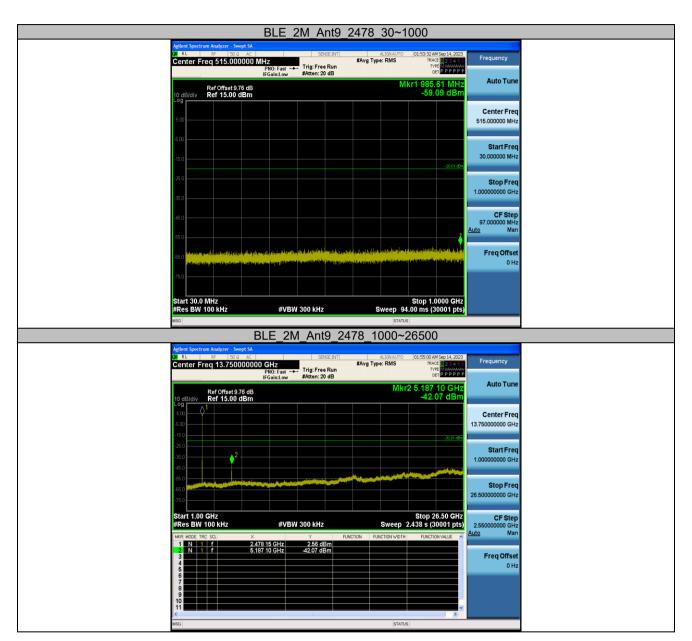
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Duty Cycle Test Result

TestMode	Antenna	Fraguenov(MHz)	ON Time	Period	Duty Cycle	Duty Cycle
restiviode		Frequency[MHz]	[ms]	[ms]	[%]	Factor[dB]
BLE_1M Ar		2402	2.13	2.50	85.20	0.70
	Ant9	2440	2.12	2.50	84.80	0.72
		2480	2.12	2.50	84.80	0.72
		2404	1.07	1.87	57.22	2.42
BLE_2M	Ant9	2440	1.08	1.88	57.45	2.41
		2478	1.07	1.87	57.22	2.42

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
BLE_1M	2.13	2.50	85.20	0.46948	1KHz
BLE_2M	1.07	0.87	57.22	0.93458	1KHz



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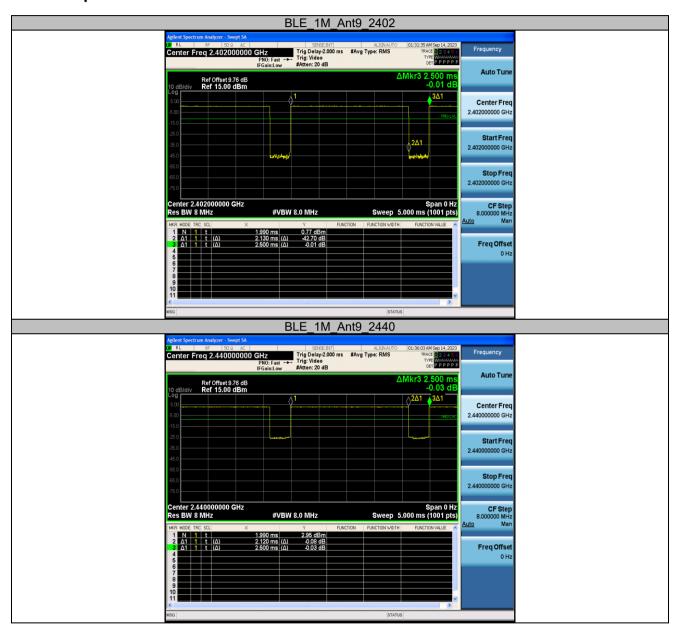


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Test Graphs





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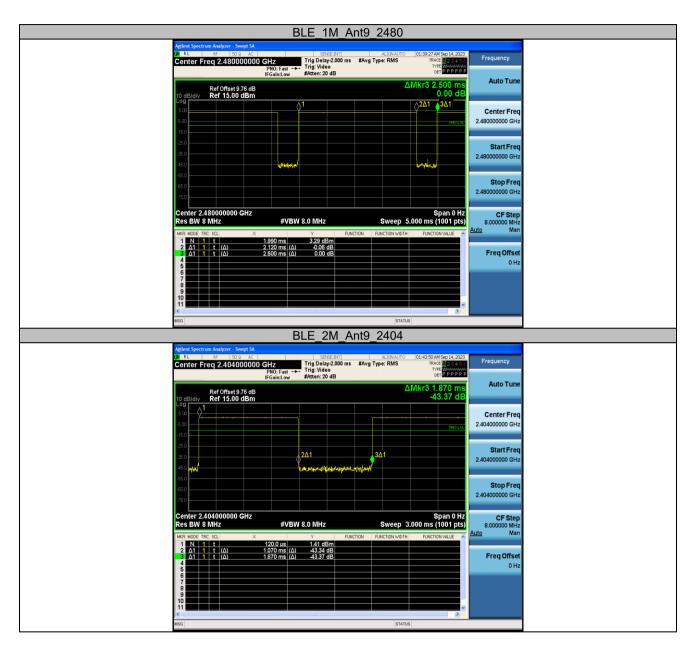
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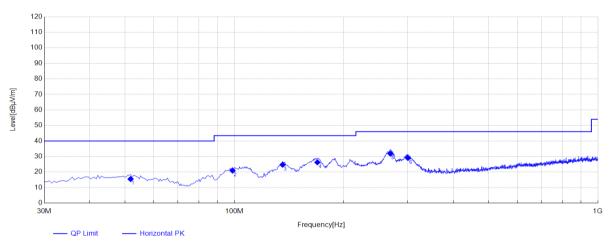
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Radiated Spurious Emissions Radiated emission below 1GHz

Worst case Mode: BLE-2M_Channel 1



QP Detecto

Data Lis	st							
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBµV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	51.8359	14.13	-27.75	29.14	15.52	40.00	24.48	Horizontal
2	98.9045	11.48	-27.17	36.64	20.95	43.50	22.55	Horizontal
3	135.7829	7.63	-26.54	43.63	24.72	43.50	18.78	Horizontal
4	169.2646	8.82	-26.51	43.98	26.29	43.50	17.21	Horizontal
5	268.7394	12.55	-26.08	45.39	31.86	46.00	14.14	Horizontal
6	300.2801	13.22	-25.90	41.71	29.03	46.00	16.97	Horizontal



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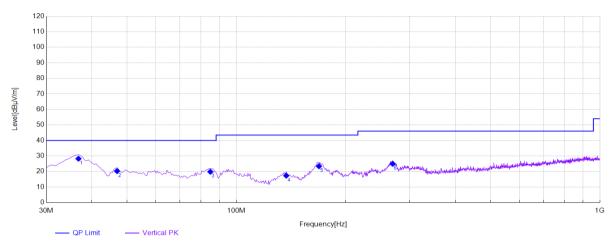
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QP Detector

	▼ Qi Dete	ctor						
Data Lis	st							
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	36.7934	12.04	-27.99	44.22	28.27	40.00	11.73	Vertical
2	46.9835	14.30	-27.78	33.76	20.28	40.00	19.72	Vertical
3	84.8324	8.82	-27.41	38.45	19.86	40.00	20.14	Vertical
4	137.2386	7.58	-26.50	36.27	17.35	43.50	26.15	Vertical
5	168.7794	8.88	-26.50	41.03	23.41	43.50	20.09	Vertical
6	269.2246	12.57	-26.07	38.47	24.97	46.00	21.03	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 μ 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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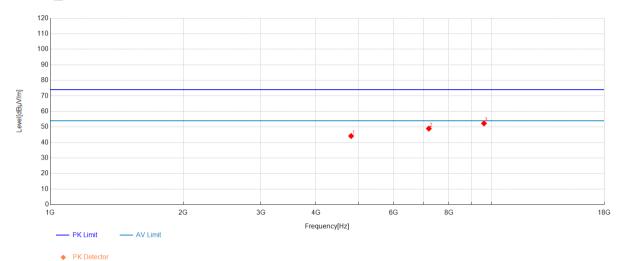


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Transmitter emission Above 1GHz BLE-1M_Channel 0



Data L	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4804	59.48	32.43	-47.74	44.17	74.00	29.83	Horizontal				
2	7206	56.57	37.11	-44.74	48.94	74.00	25.06	Horizontal				
3	9608	54.25	39.14	-41.10	52.29	74.00	21.71	Horizontal				



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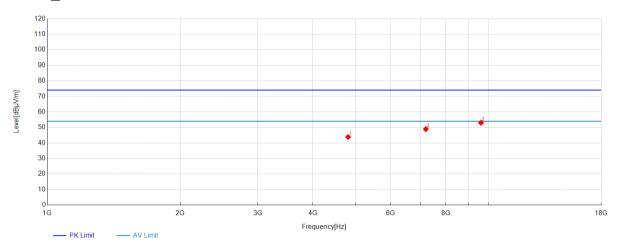


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BLE-1M_Channel 0



•	۲ĸ	Dele	ector

Data L	ist							
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4804	59.17	32.43	-47.74	43.86	74.00	30.14	Vertical
2	7206	56.55	37.11	-44.74	48.92	74.00	25.08	Vertical
3	9608	54.97	39.14	-41.10	53.01	74.00	20.99	Vertical



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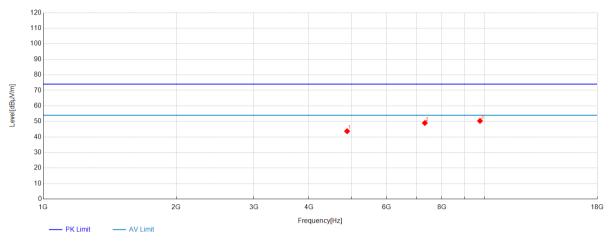


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BLE-1M_Channel 19



	1	ΔÍ	d	or

Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4880	58.32	32.98	-47.58	43.72	74.00	30.28	Horizontal			
2	7320	56.85	37.02	-44.88	48.99	74.00	25.01	Horizontal			
3	9760	52.70	38.82	-41.17	50.35	74.00	23.65	Horizontal			



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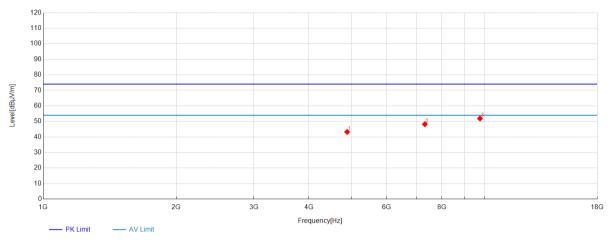


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BLE-1M_Channel 19



	1	ΔÍ	d	or

Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4880	57.86	32.98	-47.58	43.26	74.00	30.74	Vertical			
2	7320	56.06	37.02	-44.88	48.20	74.00	25.80	Vertical			
3	9760	54.26	38.82	-41.17	51.91	74.00	22.09	Vertical			



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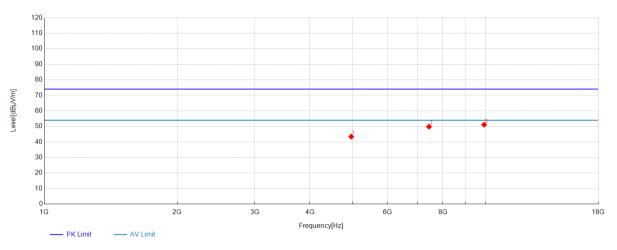


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BLE-1M_Channel 39



PK Detector

Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4960	57.36	33.18	-47.11	43.43	74.00	30.57	Horizontal			
2	7440	56.80	36.72	-43.66	49.86	74.00	24.14	Horizontal			
3	9920	53.36	38.98	-41.20	51.14	74.00	22.86	Horizontal			



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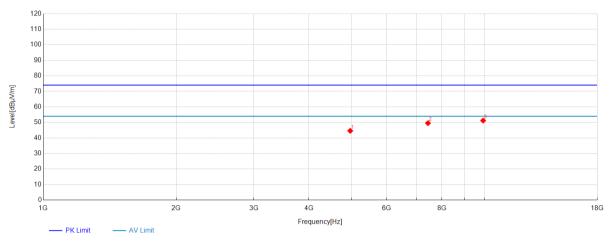


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BLE-1M_Channel 39



\Box	V		to

Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4960	58.55	33.18	-47.11	44.62	74.00	29.38	Vertical			
2	7440	56.49	36.72	-43.66	49.55	74.00	24.45	Vertical			
3	9920	53.42	38.98	-41.20	51.20	74.00	22.80	Vertical			



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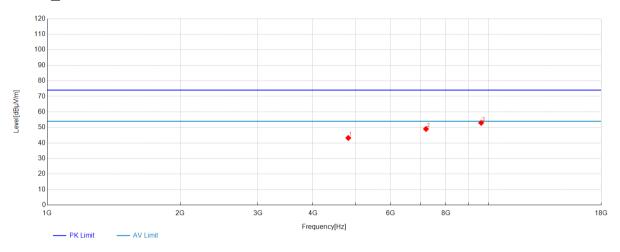


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BLE-2M_Channel 1



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4808	58.50	32.47	-47.73	43.24	74.00	30.76	Horizontal			
2	7212	56.68	37.12	-44.79	49.01	74.00	24.99	Horizontal			
3	9616	54.96	39.07	-41.10	52.93	74.00	21.07	Horizontal			



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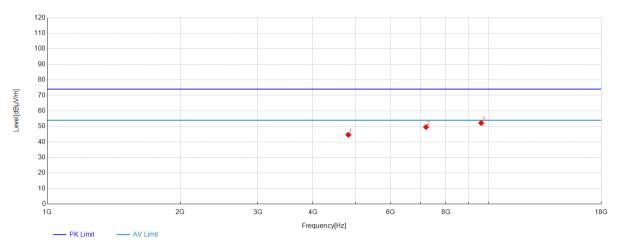


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BLE-2M_Channel 1



PK Detector

Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4808	59.87	32.47	-47.73	44.61	74.00	29.39	Vertical			
2	7212	57.28	37.12	-44.79	49.61	74.00	24.39	Vertical			
3	9616	54.25	39.07	-41.10	52.22	74.00	21.78	Vertical			



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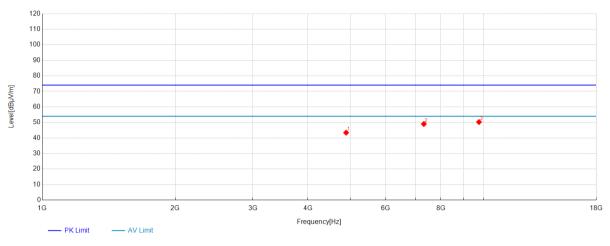


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BLE-2M_Channel 19



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Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4880	58.04	32.98	-47.58	43.44	74.00	30.56	Horizontal			
2	7320	56.86	37.02	-44.88	49.00	74.00	25.00	Horizontal			
3	9760	52.61	38.82	-41.17	50.26	74.00	23.74	Horizontal			



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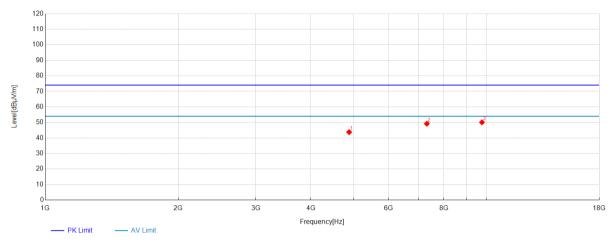


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BLE-2M_Channel 19



PK Detector

Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4880	58.36	32.98	-47.58	43.76	74.00	30.24	Vertical			
2	7320	57.03	37.02	-44.88	49.17	74.00	24.83	Vertical			
3	9760	52.43	38.82	-41.17	50.08	74.00	23.92	Vertical			



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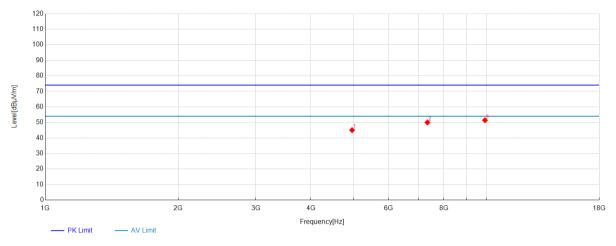


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BLE-2M_Channel 38



PK Detector

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4956	59.00	33.19	-47.13	45.06	74.00	28.94	Horizontal
2	7343	57.19	36.93	-44.13	49.99	74.00	24.01	Horizontal
3	9912	53.59	39.03	-41.21	51.41	74.00	22.59	Horizontal



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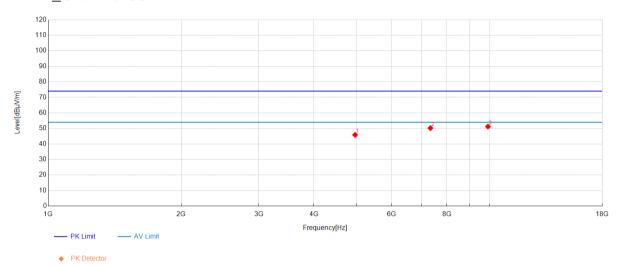


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BLE-2M_Channel 38



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4956	59.78	33.19	-47.13	45.84	74.00	28.16	Vertical			
2	7343	57.41	36.93	-44.13	50.21	74.00	23.79	Vertical			
3	9912	53.38	39.03	-41.21	51.20	74.00	22.80	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 μ V) + 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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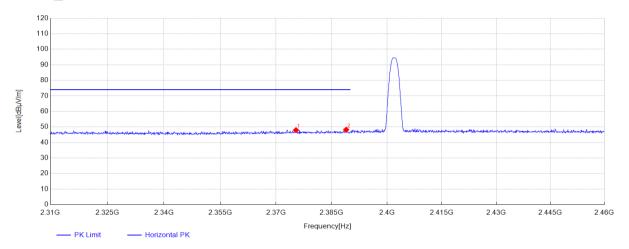


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Restricted bands around fundamental frequency BLE-1M_Channel 0



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2375.3577	38.18	27.85	-18.08	47.95	74.00	26.05	Horizontal			
2	2388.9395	38.16	27.82	-17.75	48.23	74.00	25.77	Horizontal			



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**Attention: To check the authenticity of testing rinspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

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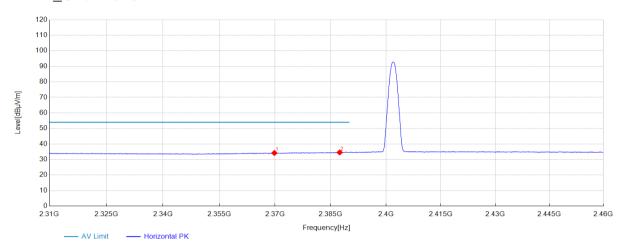


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BLE-1M_Channel 0



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2369.8049	24.56	27.86	-18.21	34.21	54.00	19.79	Horizontal			
2	2387.4387	24.50	27.83	-17.78	34.55	54.00	19.45	Horizontal			



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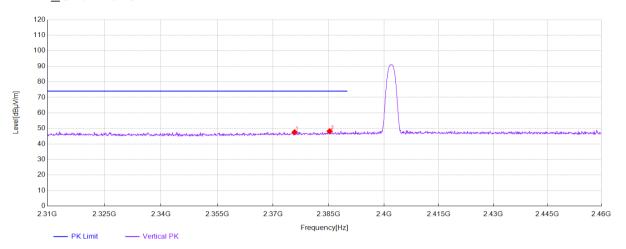


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BLE-1M_Channel 0



Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2375.8079	37.84	27.85	-18.07	47.62	74.00	26.38	Vertical		
2	2385.2626	38.21	27.83	-17.84	48.20	74.00	25.80	Vertical		



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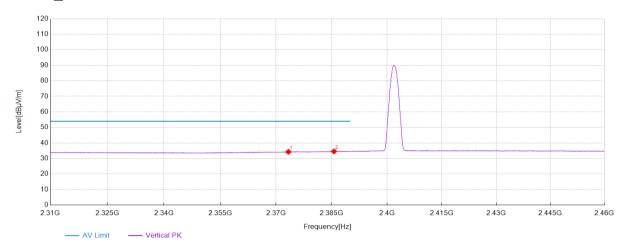


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BLE-1M_Channel 0



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2373.3317	24.60	27.85	-18.13	34.32	54.00	19.68	Vertical			
2	2385.6378	24.57	27.83	-17.83	34.57	54.00	19.43	Vertical			



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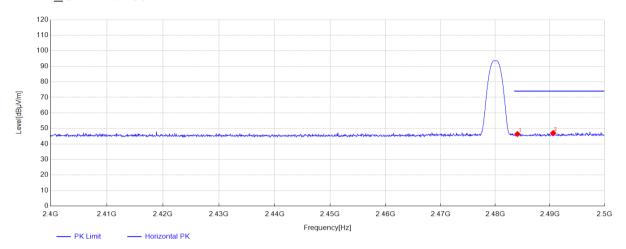


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BLE-1M_Channel 39



Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2484.042	37.52	27.97	-19.10	46.39	74.00	27.61	Horizontal		
2	2490.5953	38.15	27.98	-19.09	47.04	74.00	26.96	Horizontal		



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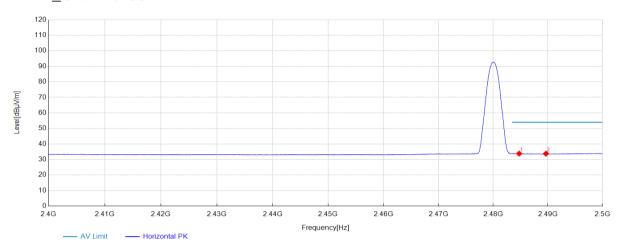


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BLE-1M_Channel 39



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2484.7424	24.92	27.97	-19.10	33.79	54.00	20.21	Horizontal			
2	2489.6448	24.89	27.98	-19.10	33.77	54.00	20.23	Horizontal			



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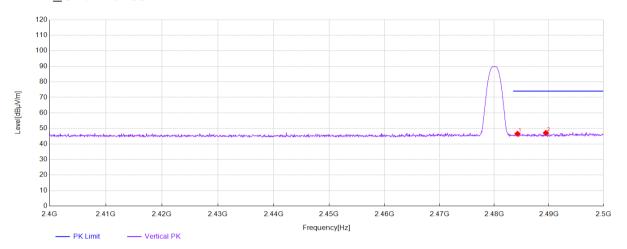


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Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2484.2421	37.69	27.97	-19.10	46.56	74.00	27.44	Vertical			
2	2489.4447	38.22	27.98	-19.10	47.10	74.00	26.90	Vertical			



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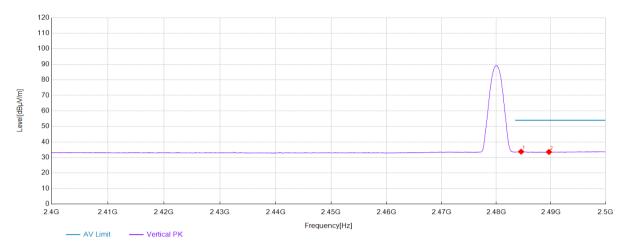


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BLE-1M_Channel 39



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2484.5423	24.90	27.97	-19.10	33.77	54.00	20.23	Vertical			
2	2489.6448	24.70	27.98	-19.10	33.58	54.00	20.42	Vertical			



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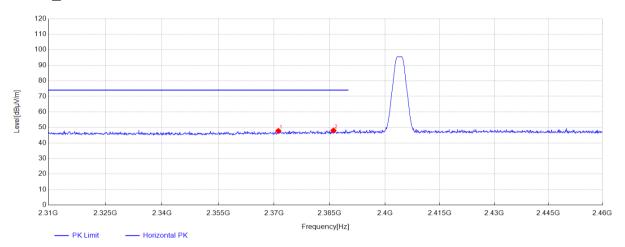


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BLE-2M_Channel 1



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2371.1556	38.09	27.86	-18.18	47.77	74.00	26.23	Horizontal			
2	2386.013	38.02	27.83	-17.82	48.03	74.00	25.97	Horizontal			



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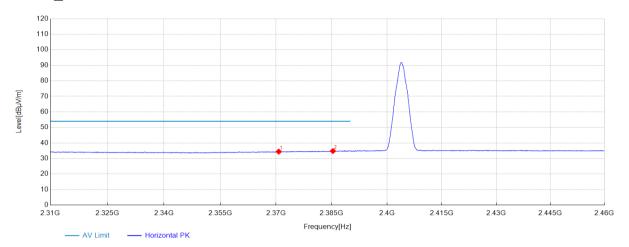


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BLE-2M_Channel 1



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2370.7054	24.77	27.86	-18.19	34.44	54.00	19.56	Horizontal			
2	2385.3377	24.80	27.83	-17.83	34.80	54.00	19.20	Horizontal			



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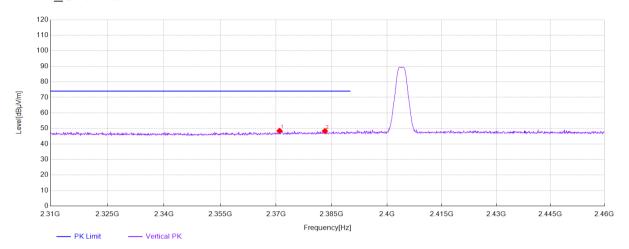


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BLE-2M_Channel 1



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2370.9305	38.81	27.86	-18.18	48.49	74.00	25.51	Vertical			
2	2383.1616	38.39	27.83	-17.89	48.33	74.00	25.67	Vertical			



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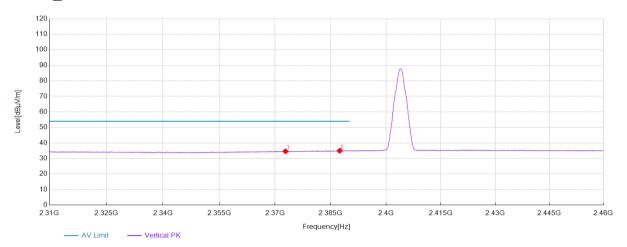


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BLE-2M_Channel 1



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2372.8064	24.92	27.85	-18.14	34.63	54.00	19.37	Vertical	
2	2387.4387	24.94	27.83	-17.78	34.99	54.00	19.01	Vertical	



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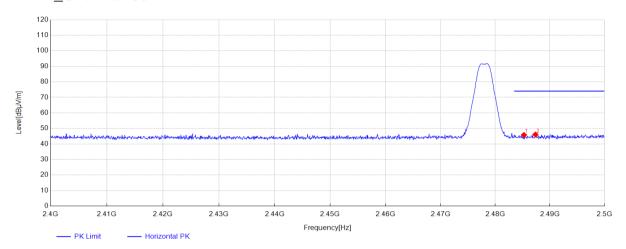


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BLE-2M_Channel 38



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2485.2426	36.94	27.97	-19.10	45.81	74.00	28.19	Horizontal	
2	2487.3437	37.17	27.97	-19.10	46.04	74.00	27.96	Horizontal	



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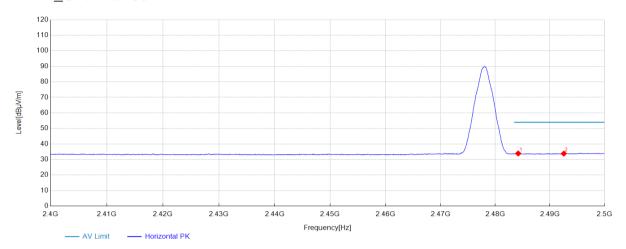


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BLE-2M_Channel 38



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2484.1921	25.04	27.97	-19.10	33.91	54.00	20.09	Horizontal	
2	2492.5463	24.88	27.99	-19.05	33.82	54.00	20.18	Horizontal	



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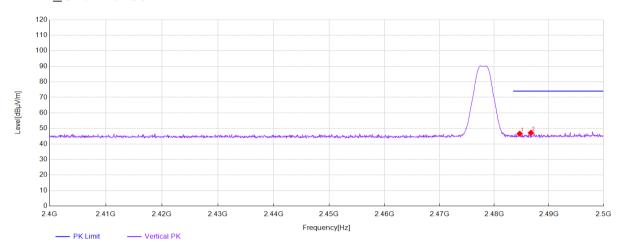


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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2484.6423	37.75	27.97	-19.10	46.62	74.00	27.38	Vertical	
2	2486.6933	38.31	27.97	-19.10	47.18	74.00	26.82	Vertical	



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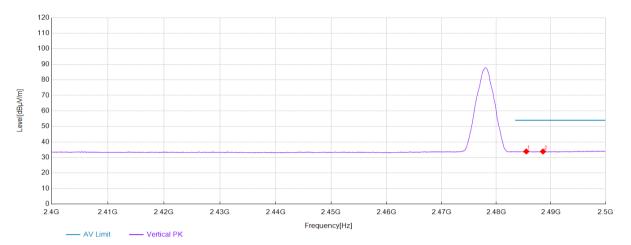


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BLE-2M_Channel 38



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2485.4927	25.05	27.97	-19.10	33.92	54.00	20.08	Vertical		
2	2488.5443	25.00	27.98	-19.10	33.88	54.00	20.12	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($dB\mu V/m$) – Level($dB\mu V/m$)

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

---End of Report---



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