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TEST REPORT

Application No.:	SUCR2504000268MO	
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.:	FCM361R	
Trade Mark:	Quectel	
FCC ID:	XMR2025FCM361R	
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	
Date of Receipt:	April 2, 2025	
Date of Test:	April 10, 2025	
Date of Issue:	April 25, 2025	
Test Result :	PASS *	

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

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 SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. Wireless Laboratory
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Version

Revision Record				
Version Description Date Remark				
01	Original	April 25, 2025	/	

Authorized for issue by:		
Tested By	Nature Shen	
	Nature Shen / Project Manager	
Approved By	Cloud Peng	
	Cloud Peng/Technical Manager	



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1 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 3.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 3.2	PASS
Duty cycle		ANSI C63.10 2013 Section 11.6	Clause 3.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.1.3	Clause 3.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 3.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 3.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.13.3	Clause 3.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 3.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 3.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 3.10	PASS



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2 General Information

2.1 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

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Layne Li, King-p Li

2.3 Test Facility

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

A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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2.4 General Description of EUT

EUT Description:	Wi-Fi & Bluetooth Module
Model No.:	FCM361R
Trade Mark:	Quectel
Hardware Version:	R1.0
Software Version:	FCM361RAAR01A01M08
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 V5.2
Modulation Type:	GFSK
Number of Channel:	40
Potoo Tupo*:	⊠Provided by client
Rates Type*:	1M PHY, 2M PHY, BLE-coded PHY(125kbps, 500kbps)
Antenna Type:	🖾 External, 🗌 Integrated
	0.3dBi
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.
RF Cable*:	1dB

Note: *

1. 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.

2. Bluetooth LE 125k/500k/1Mbps uses the same modulation, and 1Mbps was found to be the worst case scenario which was performed full test and recorded in this test report.



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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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2.5 Test Environment

Environment Parameter	101 kPa Selected Values During Tests			
Relative Humidity	44-46 % RH Ambient			
Value	Temperature(°C) Voltage(V)			
NTNV	22~23	3.3		
Remark: NV: Normal Voltage				
NT: Normal Temperature				

2.6 Description of Support Units

The EUT has been tested as an independent unit.



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3 Equipment List

RF Test Equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	11/9/2022	11/8/2025	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2/18/2024	2/17/2025	
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025	
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	5/9/2024	5/8/2025	
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	1/21/2025	1/20/2026	
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/15/2025	1/14/2026	
Power meter	Anritsu	ML2495A	SUWI-01-31-01	11/19/2024	11/18/2025	
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	11/19/2024	11/18/2025	
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	1/15/2025	1/14/2026	
Router	ASUS	GT-AXE11000(FCC ID MSQ-RTAXJF00)	SUWI-03-14-02	NCR	NCR	
Signal Generator	ROHDE&SCHWARZ	SMW200A	SUWI-01-07-08	3/27/2025	3/26/2026	
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/19/2024	11/18/2025	

Conduction Test Equipment						
Equipment Manufacturer Model No. Inventory No. Cal Date Cal Due Date						
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2/13/2025	2/12/2026	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	5/6/2024	5/5/2025	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	5/6/2024	5/5/2025	
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR	



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RSE Test Equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/13/2025	2/12/2026	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025	
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/21/2024	11/20/2025	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9168	SUWI-01-11-04	8/22/2024	8/21/2026	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/13/2023	5/12/2025	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/12/2023	5/11/2025	
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/13/2023	5/12/2025	
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	1/16/2025	1/15/2026	
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	1/16/2025	1/15/2026	
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	1/20/2025	1/19/2026	
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR	

Remark: NCR=No Calibration Requirement.



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Measurement Uncertainty (95% confidence levels, k=2) 4

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8 Radiated Em		± 3.13dB (9k -30MHz)
	Dedicted Emission	± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
	Γ	± 4.80dB (Above 18GHz)
Remark:		

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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5 Test results and Measurement Data

5.1 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 us	sed 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 ca	n be replaced by the user, but the use of a standard antenna jack or
electrical connector is prohil	bited.
15.247(b) (4) requirement:	
The conducted output powe	r limit specified in paragraph (b) of this section is based on the use of
antennas with directional ga	ins that do not exceed 6 dBi. Except as shown in paragraph (c) of this
section, if transmitting anten	nas of directional gain greater than 6 dBi are used, the conducted output
power from the intentional ra	adiator shall be reduced below the stated values in paragraphs (b)(1),
(b)(2), and (b)(3) of this sect	ion, as appropriate, by the amount in dB that the directional gain of the
antenna exceeds 6 dBi.	

The antenna is External Antenna and no consideration of replacement. The best case gain of the antenna is 0.3dBi.

Note:

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

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



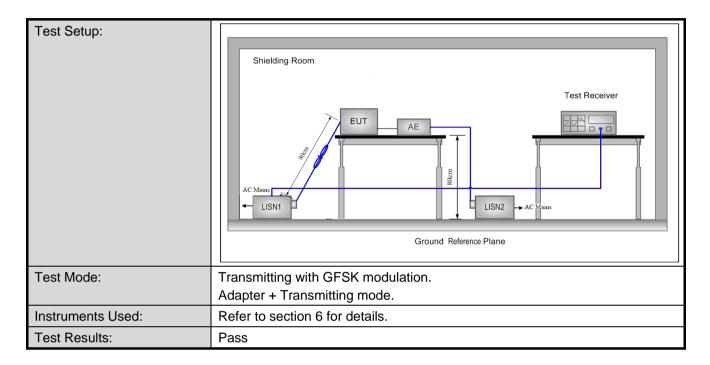
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5.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section	n 15.207	
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz	
Limit:		Limit (dl	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:	 room. 2) The EUT was connect Impedance Stabilizat impedance. The pow connected to a secon plane in the same wa multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plan placed on the horizor 4) The test was performed the EUT shall be 0.4 vertical ground reference reference plane. The unit under test and bo mounted on top of the the closest points of the and associated equip 5) In order to find the mate and all of the interface 	sturbance voltage test was co ted to AC power source throu ion Network) which provides a er cables of all other units of t ad LISN 2, which was bonded by as the LISN 1 for the unit be strip was used to connect mu- the rating of the LISN was no s placed upon a non-metallic t ne. And for floor-standing arra- ntal ground reference plane. ed with a vertical ground refer- m from the vertical ground refer- ence plane was bonded to the LISN 1 was placed 0.8 m from onded to a ground reference p e ground reference plane. This he LISN 1 and the EUT. All o ument was at least 0.8 m from aximum emission, the relative ce cables must be changed ac n conducted measurement.	gh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear the EUT were to the ground reference eing measured. A ultiple power cables to a bit exceeded. table 0.8m above the angement, the EUT was ence plane. The rear of ference plane. The horizontal ground m the boundary of the blane for LISNs is distance was between ther units of the EUT the LISN 2. e positions of equipment



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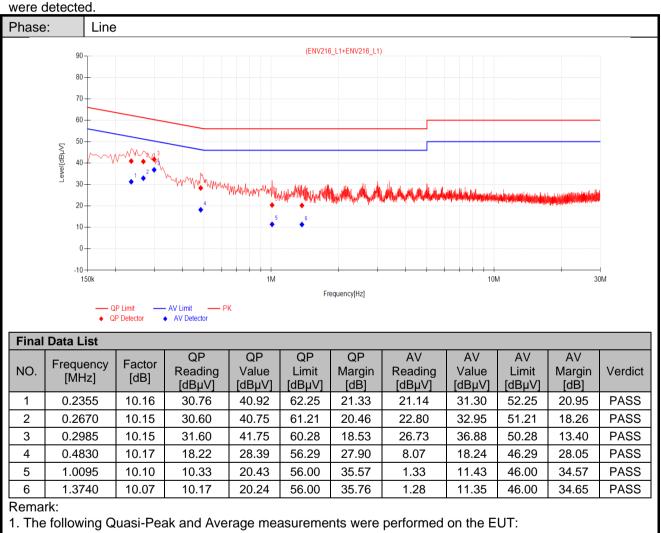


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Measurement Data

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

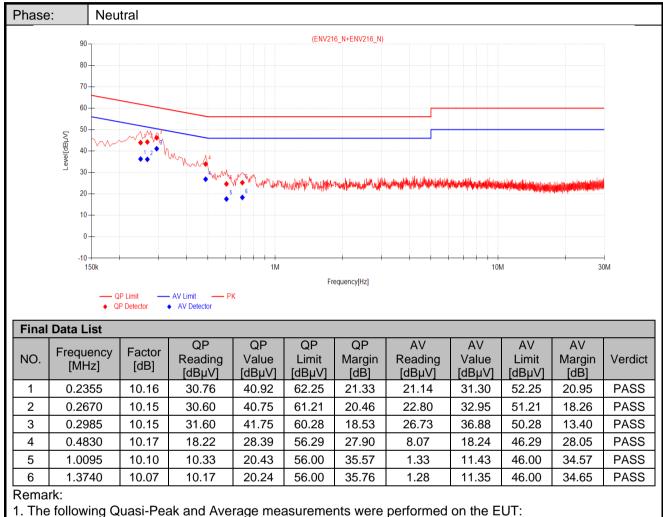


2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[$dB\mu V$] – Value[$dB\mu V$]



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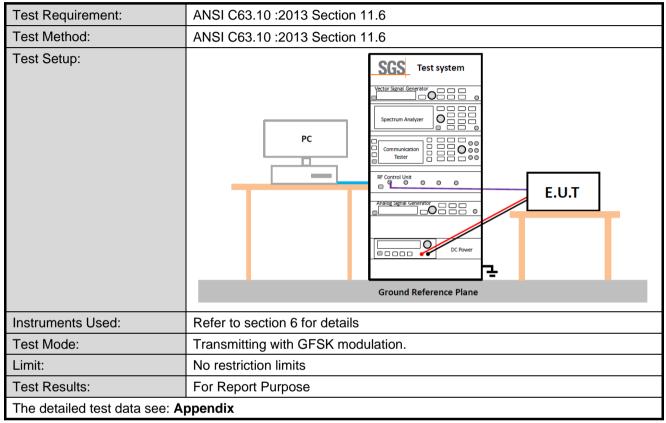
2. Value =Reading[dB μ V] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[$dB\mu V$] – Value[$dB\mu V$]



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5.3 Duty Cycle





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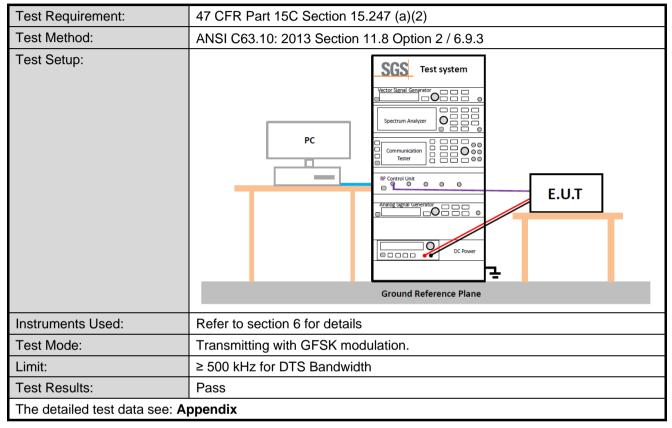
5.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section11.9.1.3
Test Setup:	Power meter Power probe E.U.T Ground Reference Plane
	* Test with power meter (Detector function: Peak)
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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





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5.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)	
Test Method:	ANSI C63.10 :2013 Section 11.10.2	
Test Setup:	PC FC Communication FF Control Unit FF Cont	
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		



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5.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)	
Test Method:	ANSI C63.10: 2013 Section 11.13.3	
Test Setup:	PC PC Control Unit PC Control Unit PC Control Unit Control Unit	
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 see: Appendix		



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Test Requirement: 47 CFR Part 15C Section 15.247 (d) Test Method: ANSI C63.10: 2013 Section 11.11 Test Setup: SGS Test system 0 PC \circ 0 E.U.T ,**o**=== DC Powe l Ground Reference Plane 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 see: Appendix

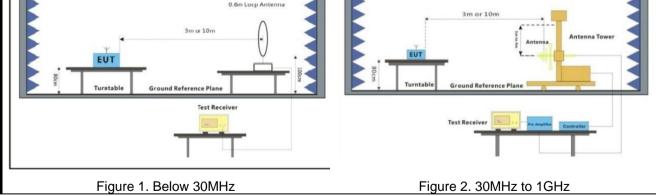
5.8 **RF Conducted Spurious Emissions**



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5.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic 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.			nit	
Test Setup:					
0.6m Losp Antenna 3m or 10m					





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	Im or 3m Im or 3m Im or 3m Imor 3m Im or 3m Imor 3m Imor 3m Imor 3m <tr< th=""></tr<>
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 (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. l. At a measurement distance of 1 mete
Test Configuration:	Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz



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	 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:	Adapter + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	Pretest the EUT at Adapter + 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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5.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 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:

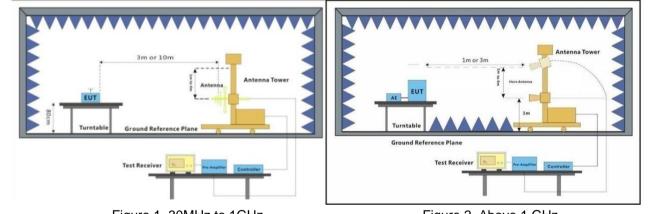


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:	above the ground at a 3	T was placed on the top of a rotating table 0.8 meters or 10 meter semi-anechoic camber. The table was letermine the position of the highest radiation.
	meters above the ground	IT was placed on the top of a rotating table 1.5 d at a 3 meter semi-anechoic camber. The table was etermine the position of the highest radiation.
) meters away from the interference-receiving inted on the top of a variable-height antenna tower.
	to determine the maximu	ried from one meter to four meters above the ground im value of the field strength. Both horizontal and he antenna are set to make the measurement.
	then the antenna was tu	ssion, the EUT was arranged to its worst case and ned to heights from 1 meter to 4 meters and the ed from 0 degrees to 360 degrees to find the
	f. The test-receiver system Bandwidth with Maximur	was set to Peak Detect Function and Specified n Hold Mode.
	frequency to show comp	d of the restricted band closest to the transmit liance. Also measure any emissions in the restricted m analyzer plot. Repeat for each power and d highest channel



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	 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 \ge 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 \ge 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. Adapter + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Adapter + 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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6 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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7 Appendix

- 1. Duty Cycle
- 1.1 Test Result
- 1.1.1 Ant1

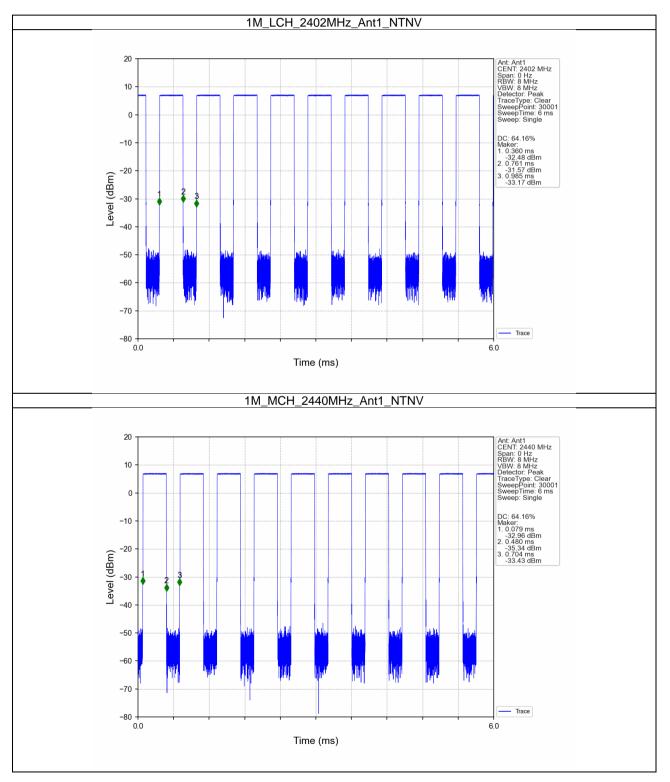
	Ant1						
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC
Mode	Туре	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
		2402	0.401	0.625	64.16	1.93	0.00
1M	SISO	2440	0.401	0.625	64.16	1.93	0.00
		2480	0.401	0.625	64.16	1.93	0.00
		2404	0.217	0.625	34.72	4.59	0.00
2M	SISO	2440	0.217	0.625	34.72	4.59	0.00
		2478	0.217	0.625	34.72	4.59	0.00



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1.2 Test Graph

1.2.1 Ant1

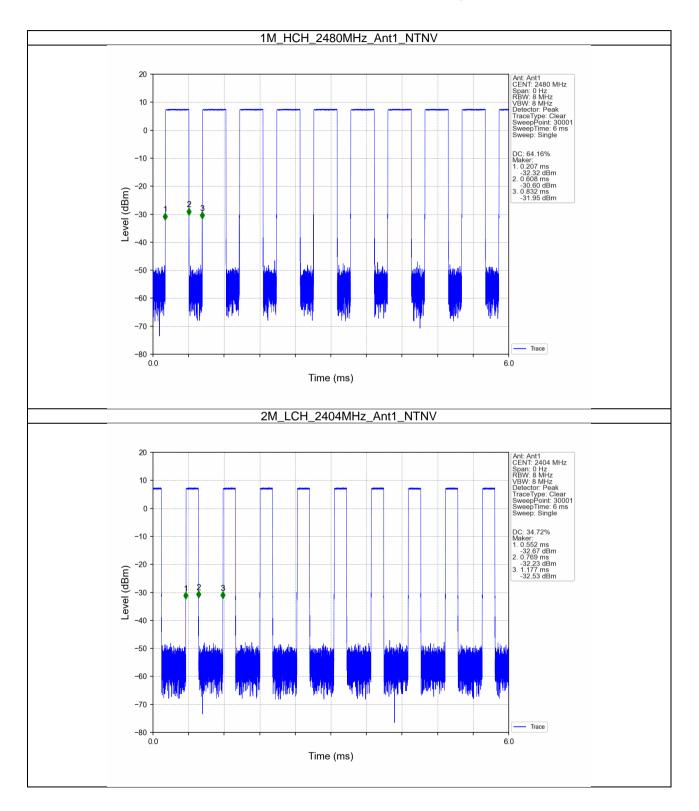




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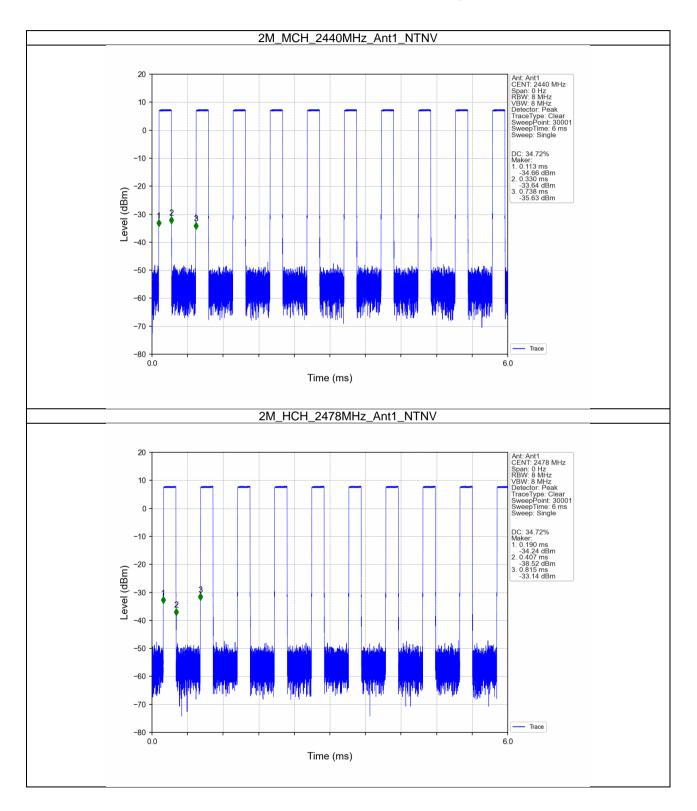




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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX	Frequency	ANT	99% Occupied Ba	Verdict	
wode	Туре	(MHz)	ANT	Result	Limit	verdict
		2402	1	1.039	/	Pass
1M	SISO	2440	1	1.026	/	Pass
	2480	1	1.037	/	Pass	
		2404	1	2.066	/	Pass
2M SISO	2440	1	2.072	/	Pass	
		2478	1	2.065	/	Pass

2.1.2 6dB BW

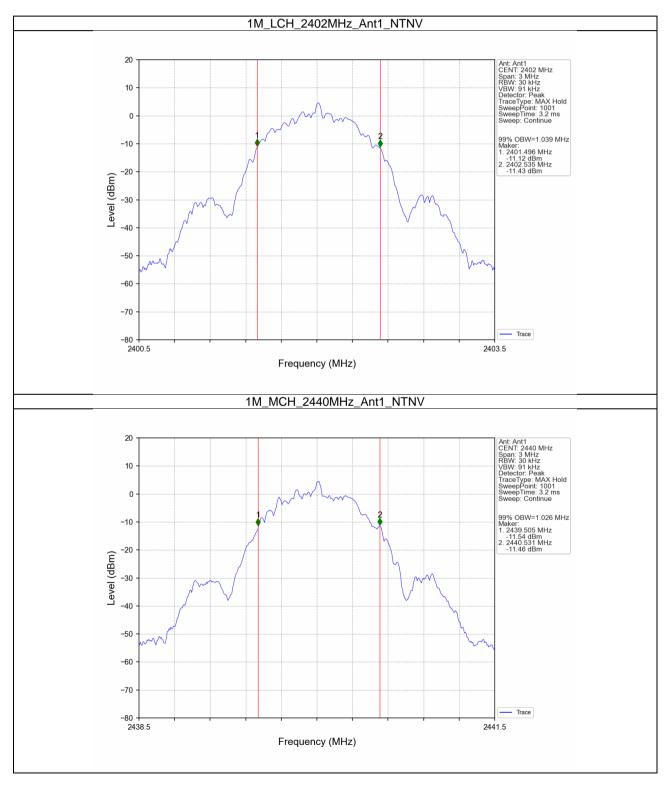
Mode TX	TX	Frequency	ANT	6dB Bandwidth (MHz)		Verdict
wode	Туре	(MHz)	ANT	Result	Limit	verdict
		2402	1	0.654	>=0.5	Pass
1M	1M SISO	2440	1	0.665	>=0.5	Pass
	2480	1	0.667	>=0.5	Pass	
		2404	1	1.157	>=0.5	Pass
2M SISO	SISO	2440	1	1.150	>=0.5	Pass
		2478	1	1.149	>=0.5	Pass



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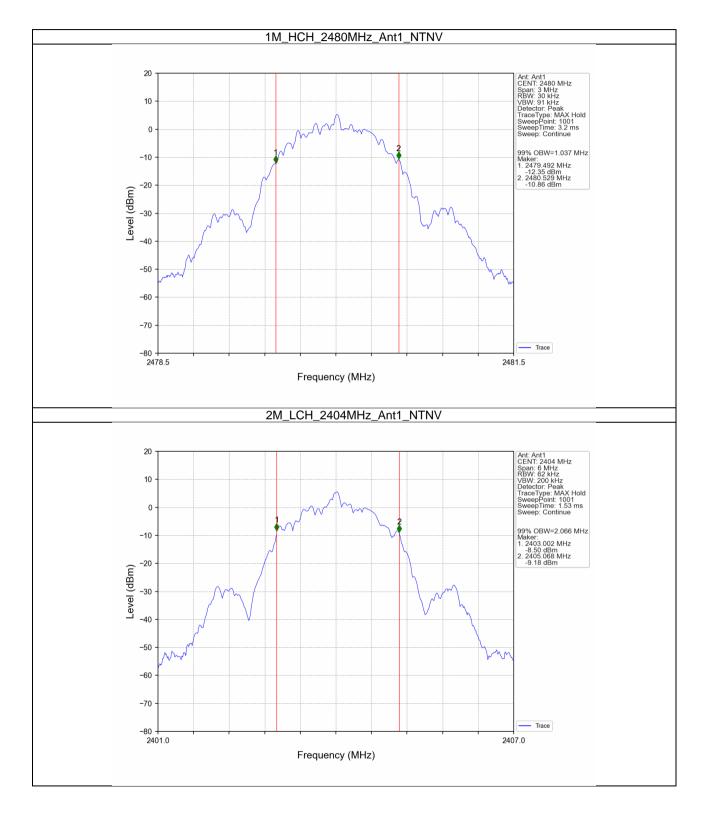
2.2 Test Graph

2.2.1 OBW



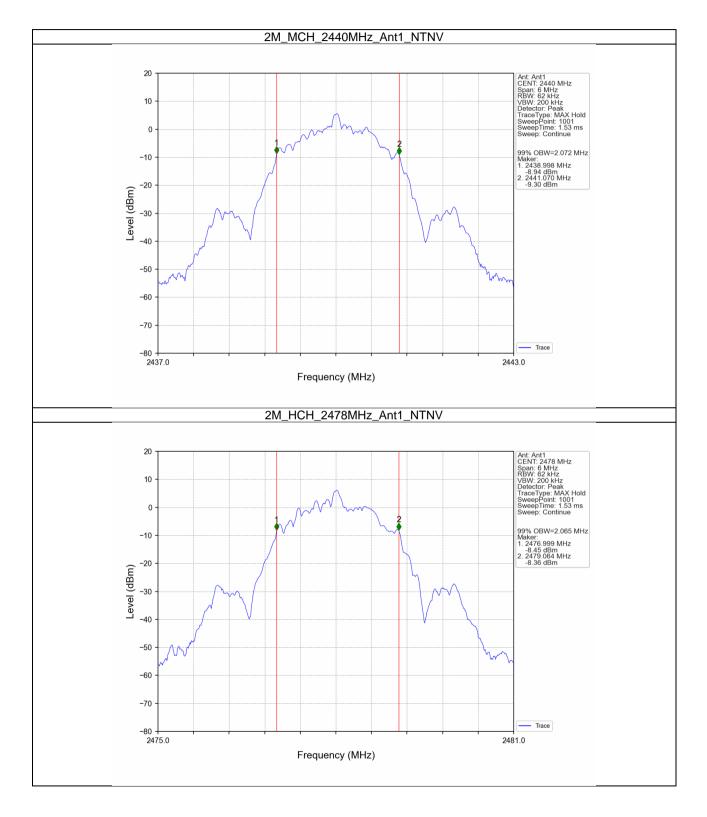


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1M_LCH_2402MHz_Ant1_NTNV Ant: Ant1 CENT: 2402 MHz Span: 3 MHz RBW: 100 kHz VBW: 300 kHz Detector: Peak Trace Type: MAX Hold SweepPine: 1 ms Sweep: Continue 20 10 0 -6dB BW:0.654MHz Maker: 1. 2401.681 MHz 0.71 dBm 2. 2402.006 MHz 6.71 dBm 3. 2402.335 MHz 0.71 dBm -10 -20 Level (dBm) -30 -40 -50 -60 -70 Trace -80 2403.5 Frequency (MHz) 1M_MCH_2440MHz_Ant1_NTNV Ant: Ant1 CENT: 2440 MHz Span: 3 MHz RBW: 100 kHz VBW: 300 kHz Detector: Peak TraceType: MAX Hold SweepPine: 1 ms Sweep: Continue 20 10 0 -6dB BW:0.665MHz Maker: 1. 2439.669 MHz 0.71 dBm 2. 2440.006 MHz 6.71 dBm 3. 2440.334 MHz 0.71 dBm -10 -20 Level (dBm) -30 -40 -50 -60 -70 - Trace 2441.5 Frequency (MHz)

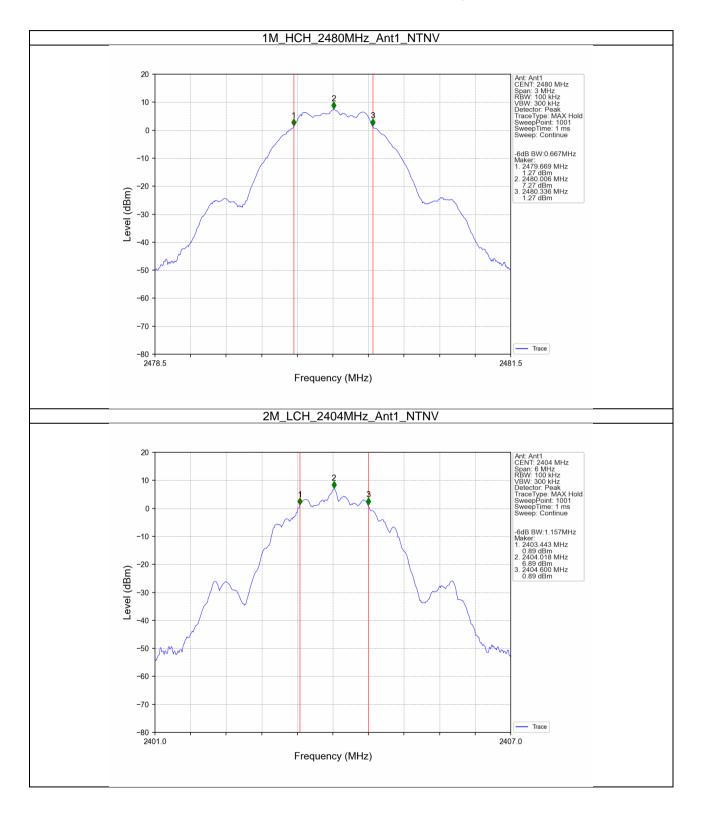
2.2.2 6dB BW



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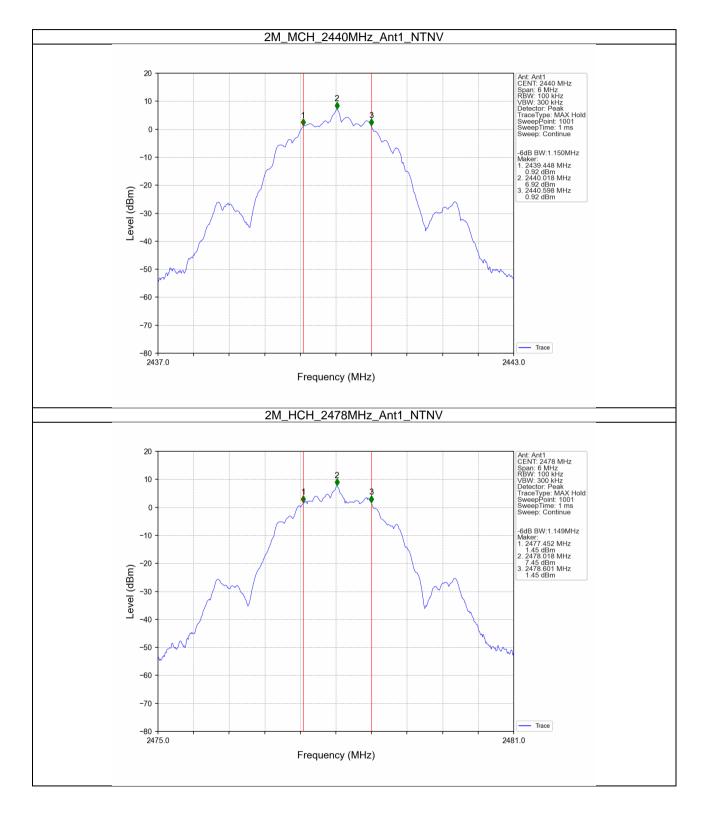
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

	Frequency	Maximum Peak Conducte	Verdict	
Туре	(MHz)	ANT1	Limit	verdict
	2402	6.11	<=30	Pass
SISO	2440	6.19	<=30	Pass
	2480	6.52	<=30	Pass
	2402	6.37	<=30	Pass
SISO	2440	6.51	<=30	Pass
	2480	6.77	<=30	Pass
	2402	6.94	<=30	Pass
SISO	2440	6.98	<=30	Pass
	2480	7.50	<=30	Pass
SISO	2404	7.25	<=30	Pass
	2440	7.31	<=30	Pass
	2478	7.81	<=30	Pass
_	SISO SISO SISO	SISO 2440 2480 2402 SISO 2440 2480 2480 2402 2480 SISO 2440 2480 2402 SISO 2440 SISO 2440 SISO 2440 SISO 2440 SISO 2440	SISO 2440 6.19 2480 6.52 2402 6.37 SISO 2440 6.51 2480 6.77 2402 6.94 SISO 2440 6.98 2402 6.94 2480 SISO 2440 7.50 2404 7.25 51SO SISO 2440 7.81	SISO 2440 6.19 <=30 2480 6.52 <=30



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

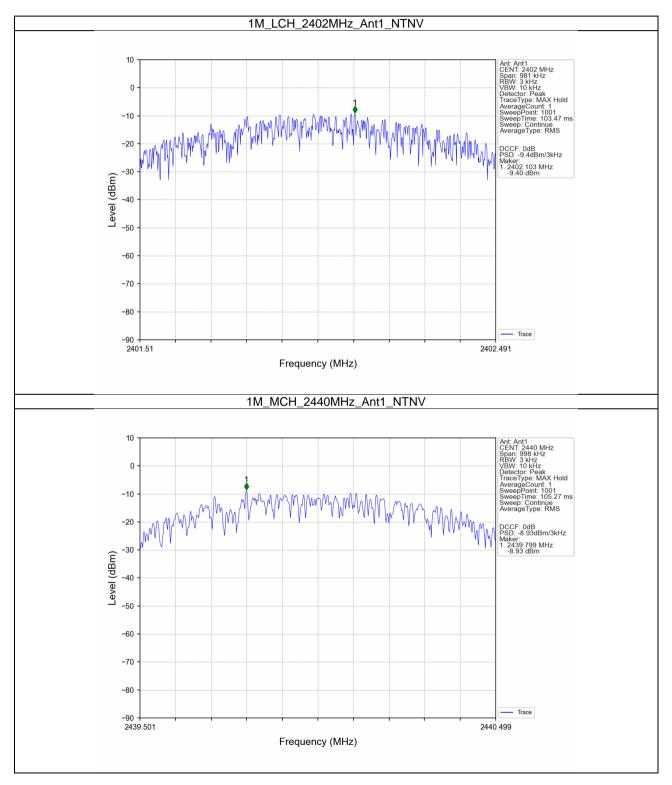
ModeTX		Frequency	Maximum PS	Verdict	
Mode	Туре	(MHz)	ANT1	Limit	verdict
	1M SISO	2402	-9.40	<=8	Pass
1M		2440	-8.93	<=8	Pass
		2480	-8.65	<=8	Pass
2M SISO	2404	-11.67	<=8	Pass	
	2440	-11.19	<=8	Pass	
		2478	-9.64	<=8	Pass
Note1: Antenna	Gain: Ant1: 0.30	dBi;			



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4.2 Test Graph

4.2.1 PSD

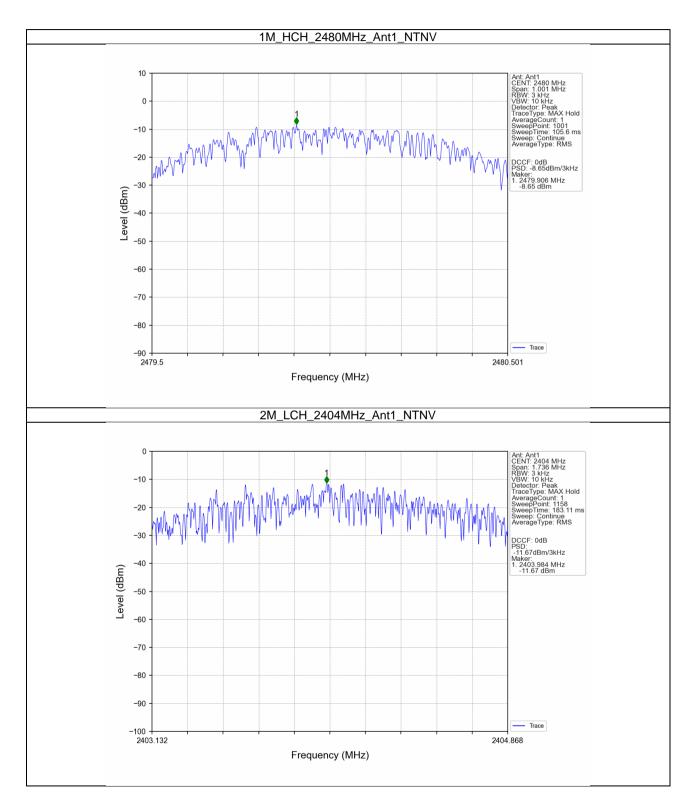




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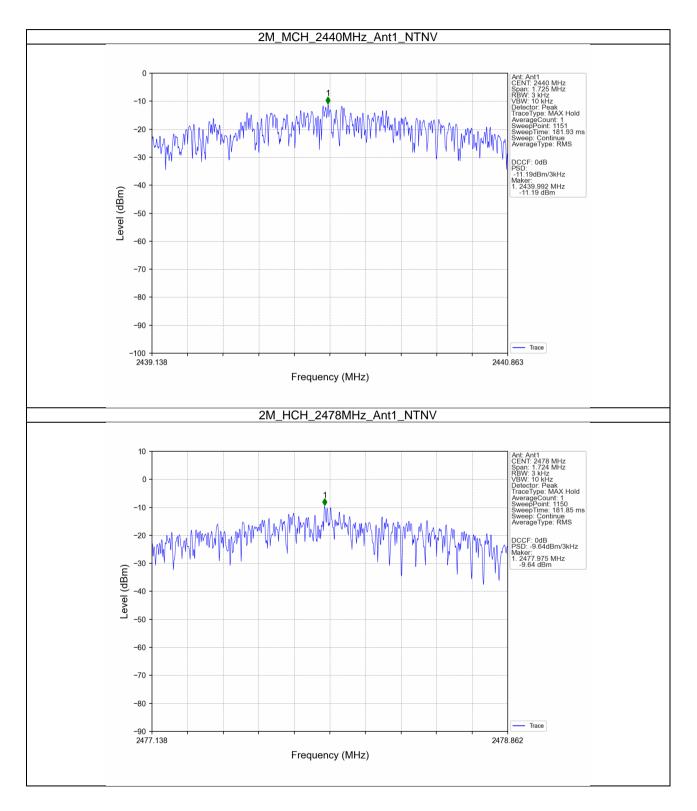




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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	ТХ Туре	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	6.70
1M	SISO	2440	1	6.73
		2480	1	7.25
		2404	1	6.89
2M	SISO	2440	1	6.93
		2478	1	7.47
Note1: Refer to FC to establish the refe		d ANSI C63.10-2013, the	channel contains th	he maximum PSD level was used

5.1.2 CSE

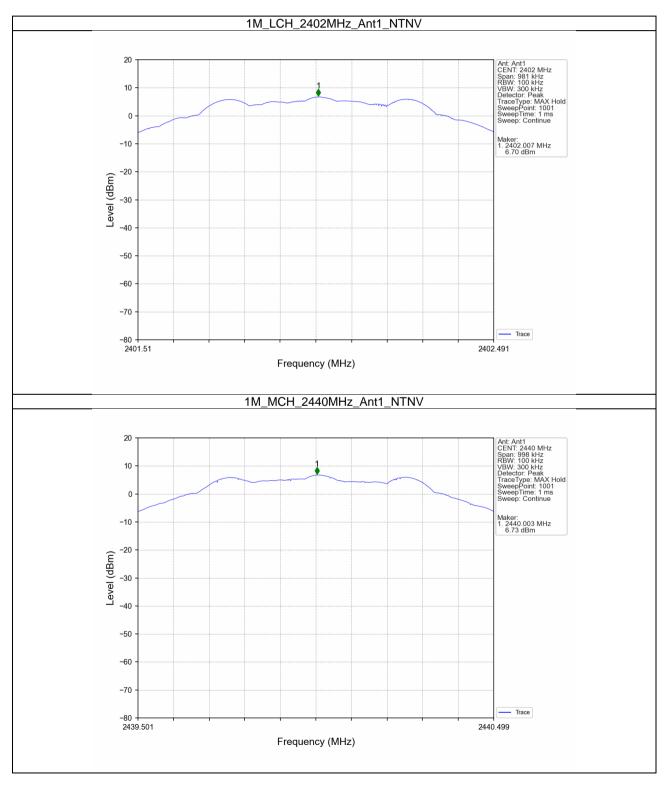
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	7.25	-12.75	Pass
1M	SISO	2440	1	7.25	-12.75	Pass
		2480	1	7.25	-12.75	Pass
		2404	1	7.47	-12.53	Pass
2M	SISO	2440	1	7.47	-12.53	Pass
		2478	1	7.47	-12.53	Pass
Note1: Refer	to FCC Part 1	15.247 (d) and ANS	I C63.10-2013	3, the channel contains the n	naximum PSD le	evel was used
to establish t	he reference le	evel.				



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5.2 Test Graph

5.2.1 Ref

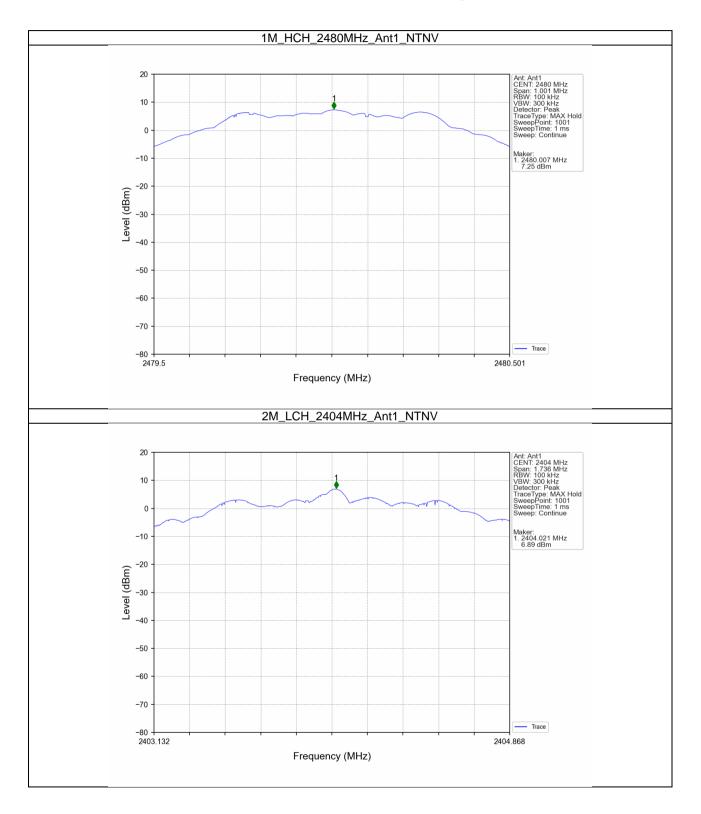




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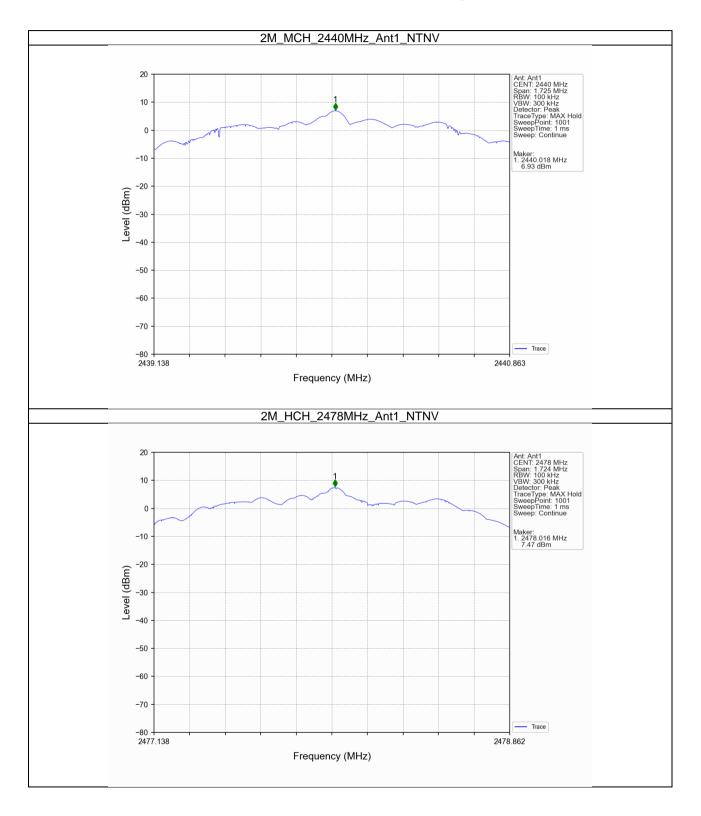




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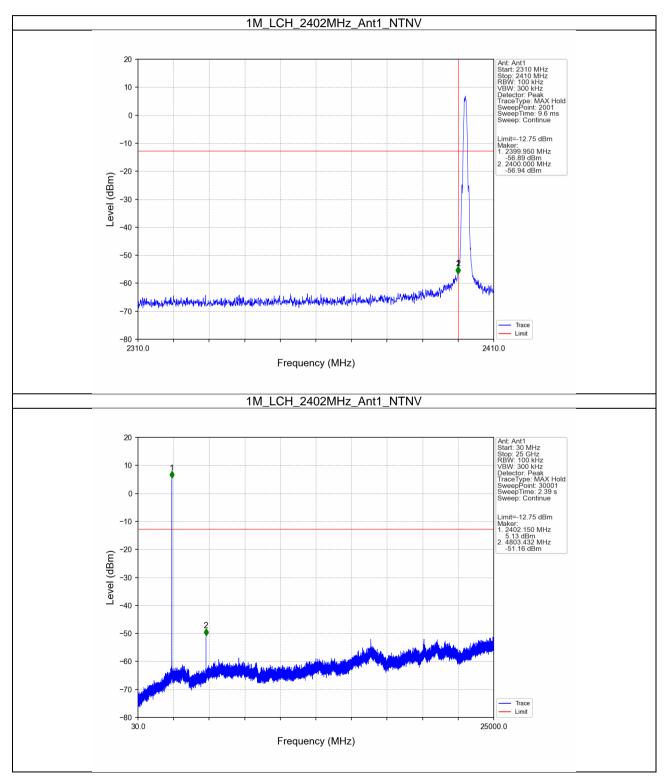
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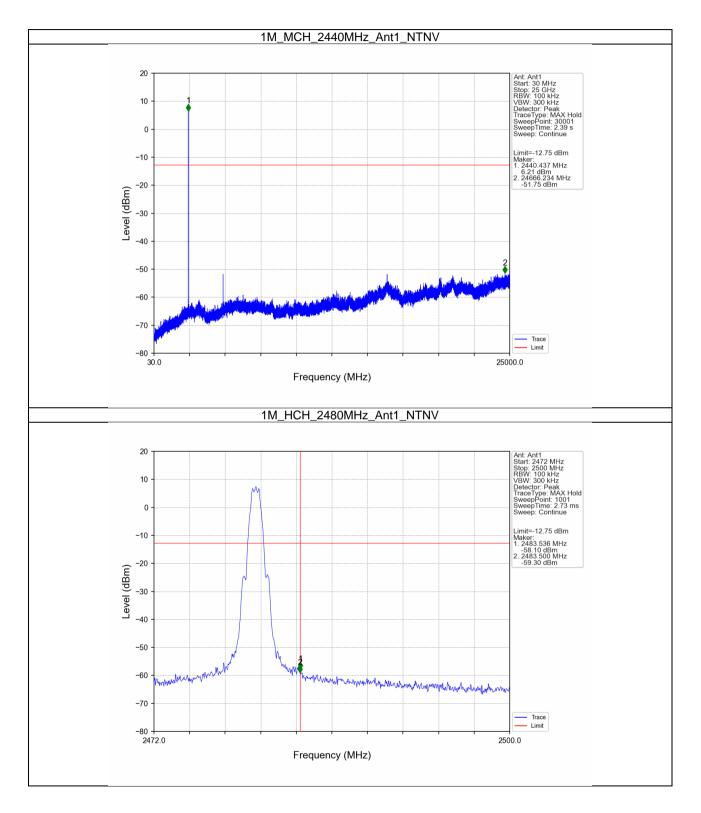
5.2.2 CSE



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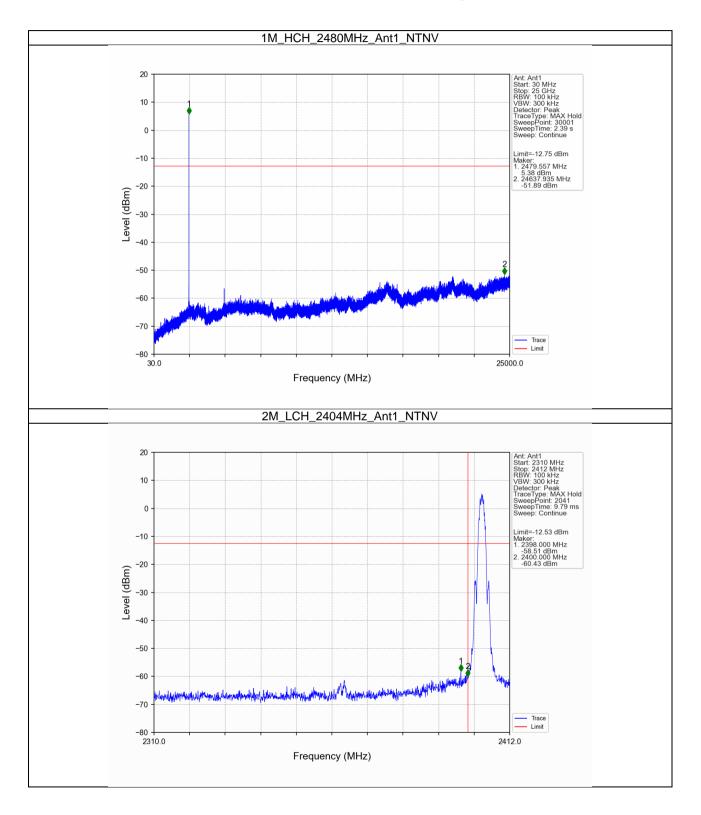




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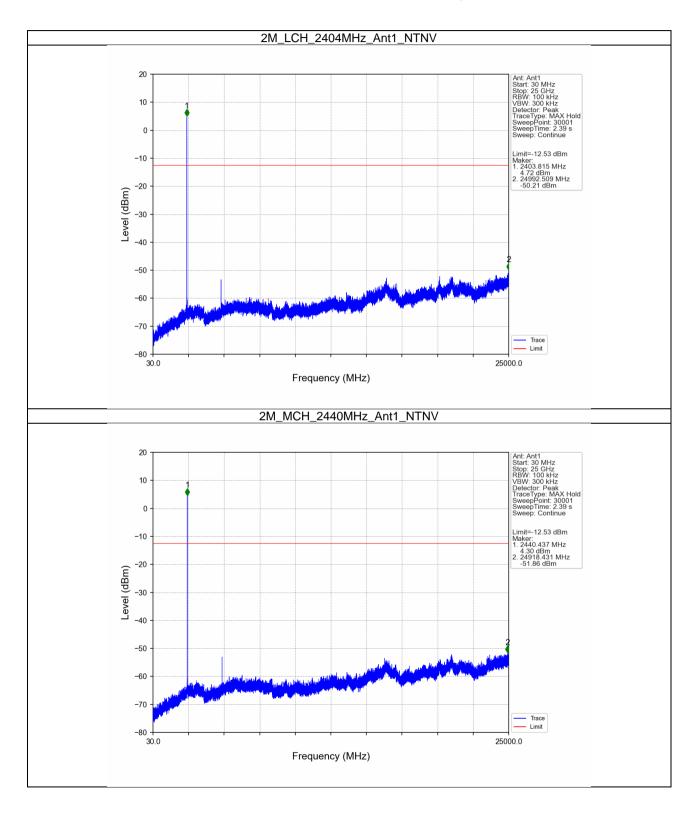




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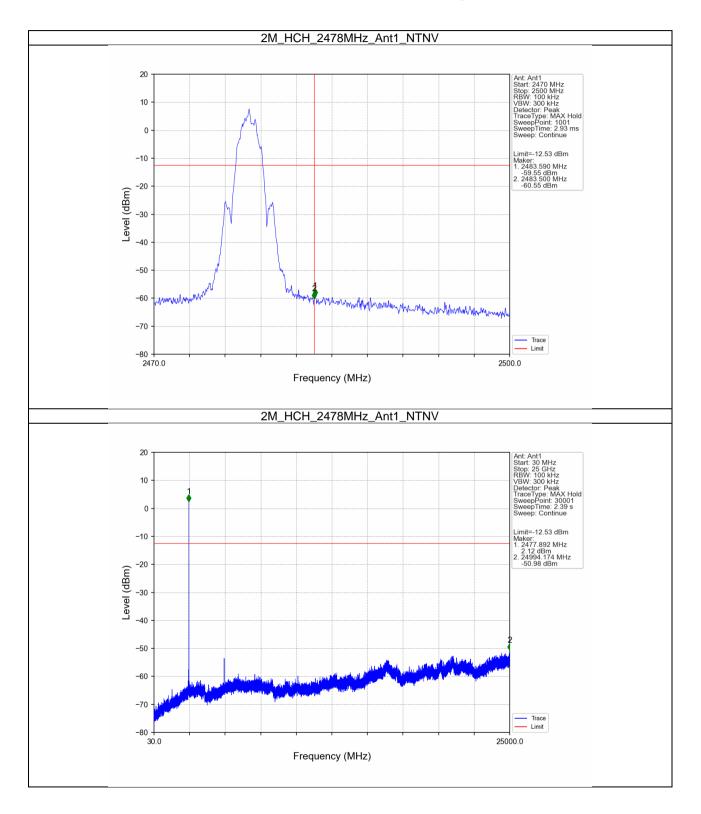




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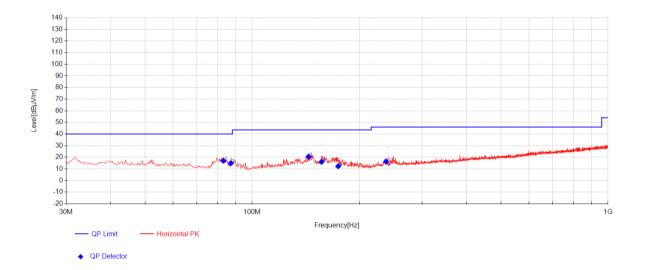


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Radiated Spurious Emissions

Radiated emission below 1GHz

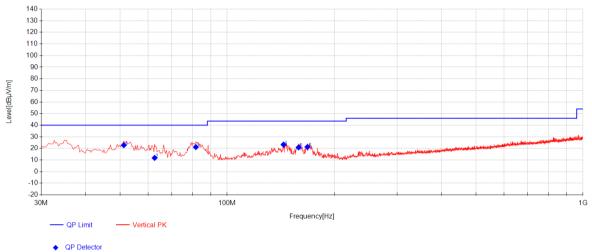
Worst case Mode: BLE 1M_Channel 39



Final	Final Data List									
NO.	Frequency [MHz]]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity		
1	83.0623	35.84	-33.32	14.51	17.03	40.00	22.97	Horizontal		
2	87.1277	33.57	-33.28	14.60	14.89	40.00	25.11	Horizontal		
3	144.0750	34.65	-32.74	18.60	20.51	43.50	22.99	Horizontal		
4	156.6915	29.78	-32.60	18.89	16.07	43.50	27.43	Horizontal		
5	174.4616	26.59	-32.40	18.09	12.28	43.50	31.22	Horizontal		
6	237.9266	31.58	-32.05	16.60	16.13	46.00	29.87	Horizontal		



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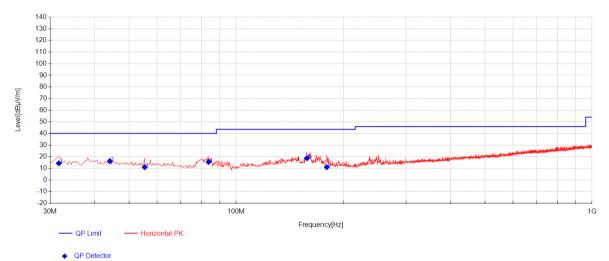


٠	QP	Detect

Final Data List								
NO.	Frequency [MHz]]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	51.2247	38.00	-33.68	18.49	22.81	40.00	17.19	Vertical
2	62.5425	27.88	-33.52	17.50	11.86	40.00	28.14	Vertical
3	81.6495	39.96	-33.33	14.53	21.16	40.00	18.84	Vertical
4	144.0219	37.44	-32.74	18.60	23.30	43.50	20.20	Vertical
5	158.7969	34.43	-32.57	19.00	20.86	43.50	22.64	Vertical
6	168.0667	34.97	-32.44	18.69	21.22	43.50	22.28	Vertical



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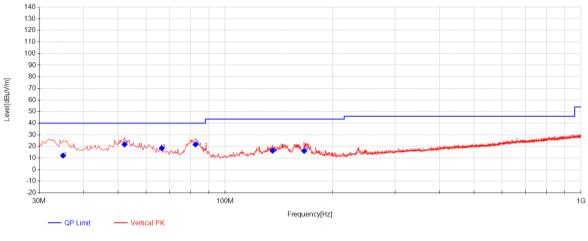


Worst case Mode: BLE 2M_Channel 39

Final Data List									
NO.	Frequency [MHz]]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity	
1	31.7452	30.24	-34.00	18.13	14.37	40.00	25.63	Horizontal	
2	44.1740	31.19	-33.79	18.81	16.21	40.00	23.79	Horizontal	
3	55.3319	26.42	-33.62	18.20	11.00	40.00	29.00	Horizontal	
4	83.6476	34.19	-33.31	14.67	15.55	40.00	24.45	Horizontal	
5	158.0377	32.21	-32.58	19.09	18.72	43.50	24.78	Horizontal	
6	179.7179	26.85	-32.38	16.53	11.00	43.50	32.50	Horizontal	



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٠	QP	Detector

Final Data List									
NO.	Frequency [MHz]]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity	
1	35.0280	27.86	-33.94	18.21	12.13	40.00	27.87	Vertical	
2	52.1417	37.05	-33.66	18.39	21.78	40.00	18.22	Vertical	
3	66.3500	34.72	-33.47	17.23	18.48	40.00	21.52	Vertical	
4	82.5213	40.49	-33.32	14.56	21.73	40.00	18.27	Vertical	
5	135.9294	30.51	-32.80	18.57	16.28	43.50	27.22	Vertical	
6	166.7399	29.87	-32.46	18.72	16.13	43.50	27.37	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)

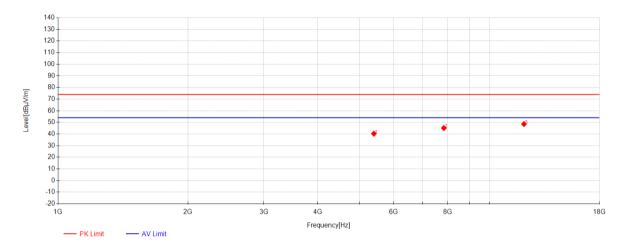
Margin = Limit($dB\mu V/m$) – Value($dB\mu V/m$)

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



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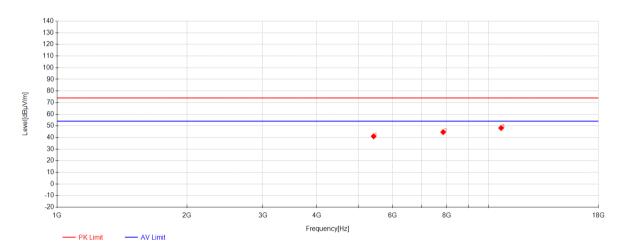
Transmitter emission Above 1GHz



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	5398	48.05	33.12	-40.90	40.27	74.00	33.73	Horizontal		
2	7840.5	44.92	36.94	-36.73	45.14	74.00	28.86	Horizontal		
3	12025.5	39.63	38.43	-29.53	48.53	74.00	25.47	Horizontal		



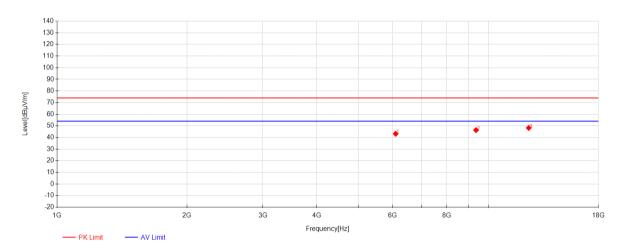
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5419	48.74	33.12	-40.84	41.01	74.00	32.99	Vertical
2	7853.5	44.37	36.95	-36.71	44.61	74.00	29.39	Vertical
3	10703	40.49	38.25	-30.58	48.16	74.00	25.84	Vertical



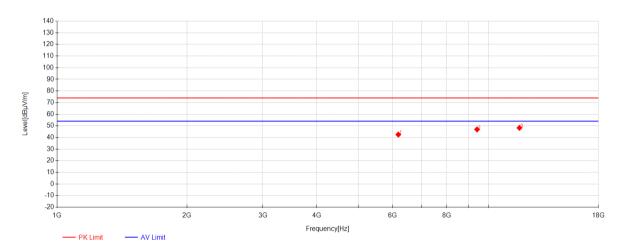
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	6095	48.15	34.99	-39.94	43.20	74.00	30.80	Horizontal
2	9361	42.55	37.71	-33.91	46.35	74.00	27.65	Horizontal
3	12400	38.79	38.88	-29.47	48.20	74.00	25.80	Horizontal



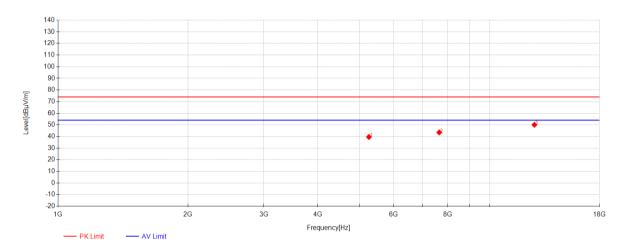
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	6182.5	46.99	35.17	-39.66	42.50	74.00	31.50	Vertical
2	9411	42.96	37.72	-33.76	46.92	74.00	27.08	Vertical
3	11800.5	39.49	38.40	-29.62	48.27	74.00	25.73	Vertical



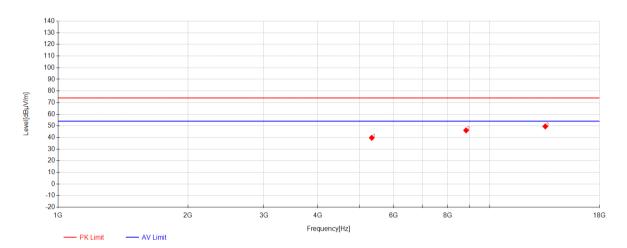
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5257	47.30	33.15	-40.87	39.58	74.00	34.42	Horizontal
2	7649.5	44.27	36.75	-37.53	43.49	74.00	30.51	Horizontal
3	12713.5	40.56	39.26	-29.77	50.05	74.00	23.95	Horizontal



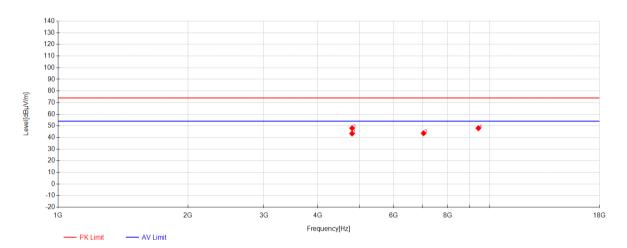
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5336.5	47.51	33.13	-40.91	39.74	74.00	34.26	Vertical
2	8830	43.52	37.52	-34.93	46.10	74.00	27.90	Vertical
3	13477	38.32	39.93	-28.75	49.50	74.00	24.50	Vertical



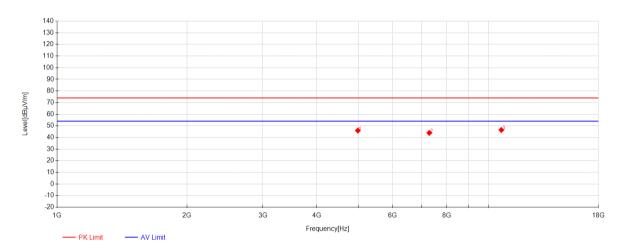
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4804	52.09	32.77	-41.49	43.37	54.00	10.63	Horizontal
2	4805	56.69	32.77	-41.49	47.98	74.00	26.02	Horizontal
3	7036.5	45.90	36.04	-38.29	43.66	74.00	30.34	Horizontal
4	9426.5	44.02	37.73	-33.78	47.96	74.00	26.04	Horizontal



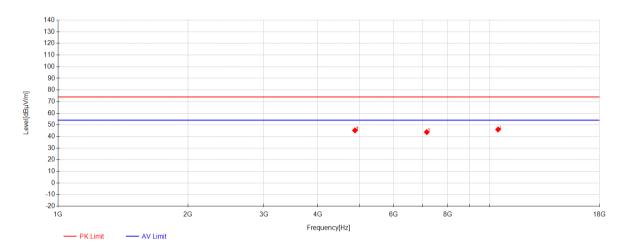
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4981.5	54.24	33.16	-41.42	45.98	74.00	28.02	Vertical
2	7293	45.02	36.35	-37.41	43.96	74.00	30.04	Vertical
3	10714	38.80	38.26	-30.59	46.47	74.00	27.53	Vertical



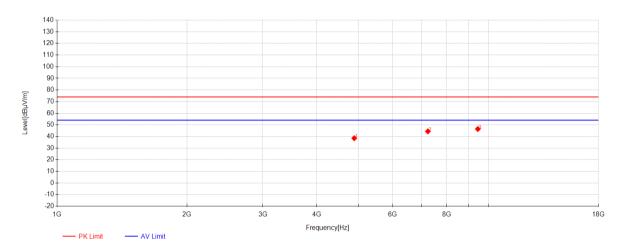
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4879	53.57	32.93	-41.26	45.24	74.00	28.76	Horizontal
2	4879	53.57	32.93	-41.26	45.24	74.00	28.76	Horizontal
3	7157.5	45.66	36.19	-38.09	43.76	74.00	30.24	Horizontal
4	10472.5	39.13	38.14	-31.25	46.02	74.00	27.98	Horizontal



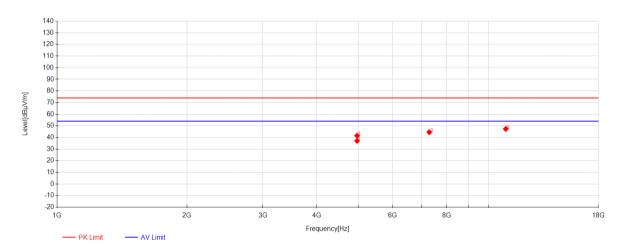
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4885.5	46.80	32.95	-41.24	38.50	74.00	35.50	Vertical
2	7239	45.90	36.29	-37.79	44.40	74.00	29.60	Vertical
3	9451.5	42.49	37.74	-33.82	46.41	74.00	27.59	Vertical



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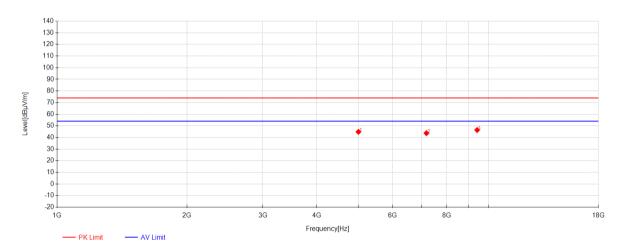


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4960.5	45.36	33.11	-41.36	37.11	54.00	16.89	Horizontal
2	4960.5	49.79	33.11	-41.36	41.54	74.00	32.46	Horizontal
3	7292	45.62	36.35	-37.42	44.55	74.00	29.45	Horizontal
4	10971	39.23	38.39	-30.29	47.33	74.00	26.67	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]	Polarity
1	4997	53.14	33.19	-41.46	44.87	74.00	29.13	Vertical
2	7182.5	45.55	36.22	-38.07	43.70	74.00	30.30	Vertical
3	9415	42.44	37.72	-33.77	46.40	74.00	27.60	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(dBµV/m) – Level(dBµV/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"

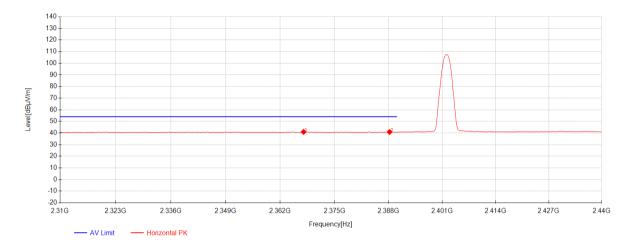


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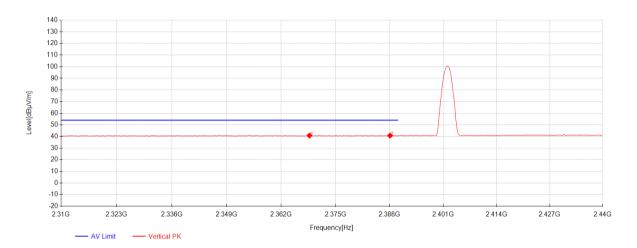
Restricted bands around fundamental frequency



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2367.59	37.15	27.11	-23.30	40.96	54.00	13.04	Horizontal
2	2388.26	37.04	27.15	-23.31	40.88	54.00	13.12	Horizontal



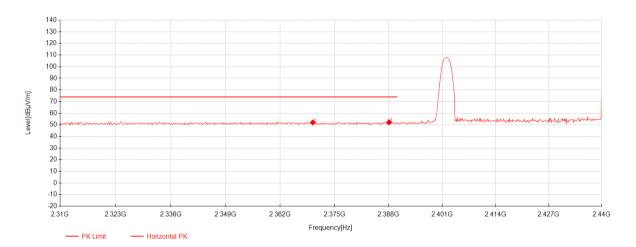
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2368.76	37.03	27.11	-23.30	40.84	54.00	13.16	Vertical		
2	2388.13	36.95	27.15	-23.31	40.79	54.00	13.21	Vertical		



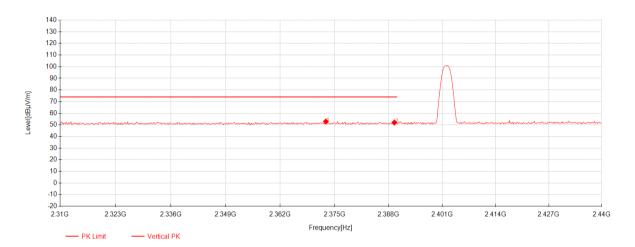
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2369.8	48.21	27.11	-23.30	52.02	74.00	21.98	Horizontal		
2	2388.13	48.39	27.15	-23.31	52.23	74.00	21.77	Horizontal		



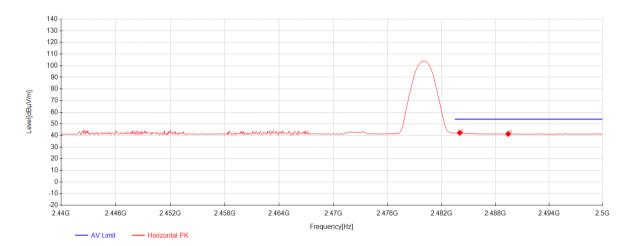
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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2372.92	49.04	27.12	-23.30	52.86	74.00	21.14	Vertical	
2	2389.43	48.16	27.16	-23.31	52.00	74.00	22.00	Vertical	



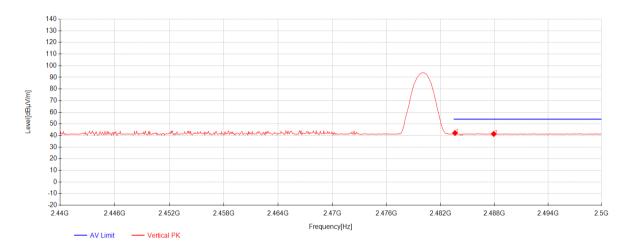
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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2484.04	38.22	27.36	-23.27	42.32	54.00	11.68	Horizontal	
2	2489.44	37.25	27.38	-23.27	41.36	54.00	12.64	Horizontal	



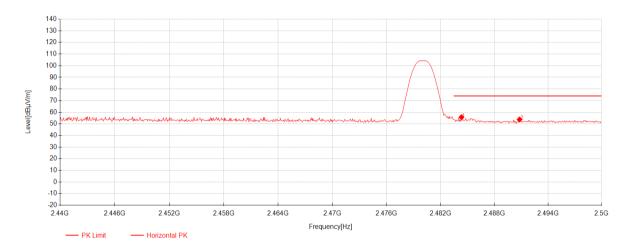
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.62	38.05	27.36	-23.27	42.14	54.00	11.86	Vertical
2	2487.94	37.25	27.37	-23.27	41.36	54.00	12.64	Vertical



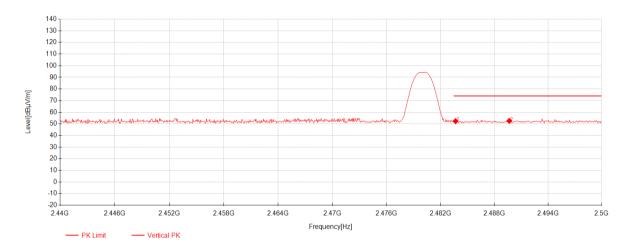
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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2484.34	51.61	27.37	-23.27	55.71	74.00	18.29	Horizontal	
2	2490.82	49.64	27.38	-23.27	53.75	74.00	20.25	Horizontal	



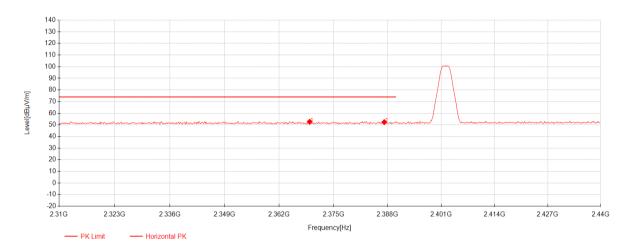
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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2483.68	48.24	27.36	-23.27	52.33	74.00	21.67	Vertical	
2	2489.68	48.46	27.38	-23.27	52.57	74.00	21.43	Vertical	



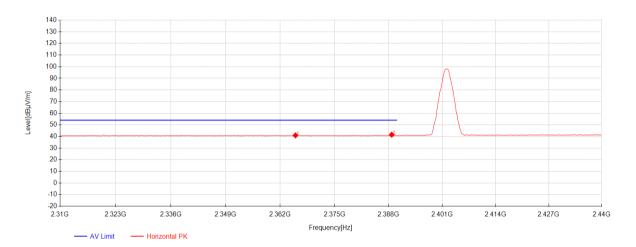
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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2369.28	48.87	27.11	-23.30	52.68	74.00	21.32	Horizontal	
2	2387.22	48.49	27.15	-23.31	52.33	74.00	21.67	Horizontal	



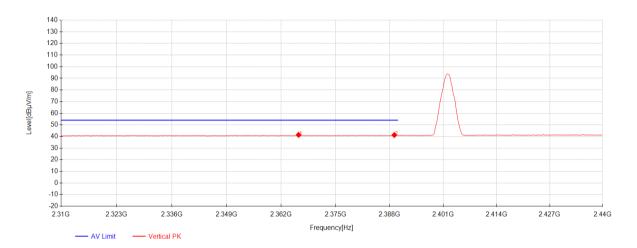
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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2365.64	37.15	27.10	-23.30	40.96	54.00	13.04	Horizontal	
2	2388.78	37.69	27.16	-23.31	41.53	54.00	12.47	Horizontal	



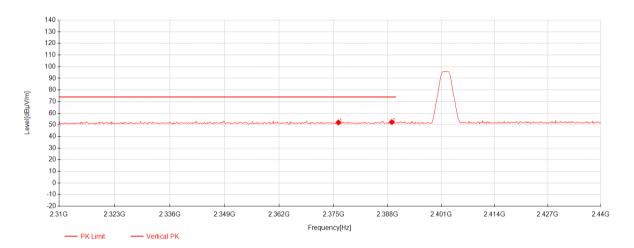
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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2366.16	37.56	27.11	-23.30	41.37	54.00	12.63	Vertical	
2	2389.17	37.43	27.16	-23.31	41.27	54.00	12.73	Vertical	



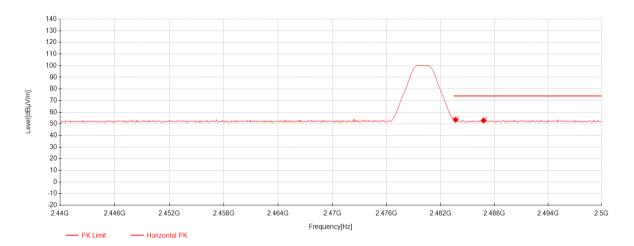
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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2376.17	48.20	27.13	-23.30	52.02	74.00	21.98	Vertical	
2	2389.04	48.54	27.16	-23.31	52.38	74.00	21.62	Vertical	



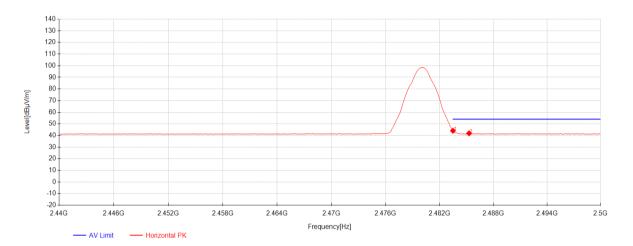
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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2483.68	49.48	27.36	-23.27	53.57	74.00	20.43	Horizontal	
2	2486.8	48.78	27.37	-23.27	52.88	74.00	21.12	Horizontal	



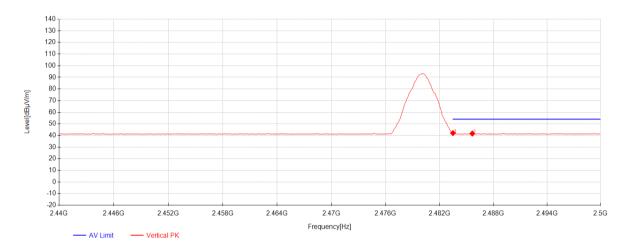
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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2483.5	40.01	27.36	-23.27	44.10	54.00	9.90	Horizontal	
2	2485.3	37.78	27.37	-23.27	41.88	54.00	12.12	Horizontal	



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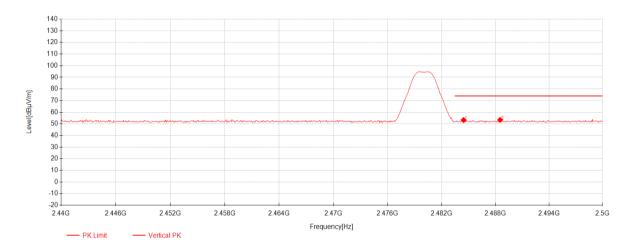


Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2483.5	37.97	27.36	-23.27	42.06	54.00	11.94	Vertical	
2	2485.66	37.57	27.37	-23.27	41.67	54.00	12.33	Vertical	



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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	2484.46	49.18	27.37	-23.27	53.28	74.00	20.72	Vertical	
2	2488.54	49.30	27.37	-23.27	53.41	74.00	20.59	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---