

RF Test Report

For

Applicant Name: FOXX Development Inc.

Address: 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

EUT Name: Smart Phone

Brand Name: FOXXD Model Number: AS65U Series Model Number: N/A

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,

Address: Tantou Community, Songgang Street, Bao'an District, Shenzhen,

China

Report Number: BTF240712R01803 Test Standards: 47 CFR Part 15.247

Test Conclusion: Pass

FCC ID: 2AQRM-AS65U

Test Date: 2024-07-13to 2024-07-29

Date of Issue: 2024-07-30

Prepared By:

Chris Liu / Project Engin

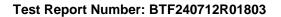
Date: 2024-07-30

Approved By:

Ryan.CJ / EMC Manager

Date: 2024-07-30

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.



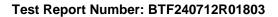


Revision History			
Version	Issue Date	Revisions Content	
R_V0	2024-07-30	Original	
Note: Once the	revision has been made, then prev	ious versions reports are invalid.	



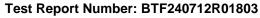
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1 Introduction

1.1 Identification of Testing Laboratory

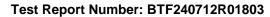
Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.		
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China	
Phone Number:	+86-0755-23146130	
Fax Number: +86-0755-23146130		

1.2 Identification of the Responsible Testing Location

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.	
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China	
Phone Number:	+86-0755-23146130	
Fax Number:	+86-0755-23146130	
FCC Registration Number:	518915	
Designation Number:	CN1330	

1.3 Announcement

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





2 Product Information

2.1 Application Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.2 Manufacturer Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.3 Factory Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Smart Phone
Test Model Number:	AS65U
Series Model Number:	N/A
Description of Model name differentiation:	N/A

2.5 Technical Information

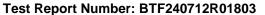
Power Supply:	DC 5V from adaptor or 3.87V from battery
Power Adaptor:	Input: 100-240V 50/60Hz 0.3A Output: 5.0V==2000mA Model: AS65U
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Number of Channels:	802.11b/g/n(HT20): 11 Channels; 802.11n(HT40): 7 Channels
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type:	PIFA
Antenna Gain [#] :	2.82dBi

Note:

Bluetooth Version: 5.0

^{#:} The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.







3 **Summary of Test Results**

3.1 **Test Standards**

The tests were performed according to following standards: 47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

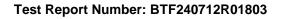
3.2 Uncertainty of Test

Item	Measurement Uncertainty
Conducted Emission (150 kHz-30 MHz)	±2.64dB
Occupied Bandwidth	±69kHz
Transmitter Power, Conducted	±0.87dB
Power Spectral Density	±0.69dB
Conducted Spurious Emissions	±0.95dB
Radiated Spurious Emissions (above 1GHz)	1-6GHz: ±3.94dB 6-18GHz: ±4.16dB
Radiated Spurious Emissions (30M - 1GHz)	±4.12dB

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Summary of Test Result 3.3

Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass



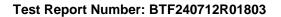


Test Configuration

Test Equipment List

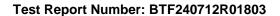
Conducted Emission at AC power line							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	2023-11-16	2024-11-15		
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2023-11-16	2024-11-15		
V-LISN	SCHWARZBECK	NSLK 8127	01073	2023-11-16	2024-11-15		
LISN	AFJ	LS16/110VAC	16010020076	2023-11-16	2024-11-15		
EMI Receiver	ROHDE&SCHWA RZ	ESCI3	101422	2023-11-16	2024-11-15		

Occupied Bandwidth Maximum Conducted Power Spectral Densi Emissions in non-res	ty	ınds			
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	1	V1.00	1	1	/
RF Control Unit	Techy	TR1029-1	/	2023-11-16	2024-11-15
RF Sensor Unit	Techy	TR1029-2	/	2023-11-16	2024-11-15
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2023-11-16	2024-11-15
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2023-11-16	2024-11-15
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2023-11-16	2024-11-15





	(5.11.1)				
Band edge emissions Emissions in frequency		CH-/			
Emissions in frequence					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-11-16	2024-11-15
Preamplifier	SCHWARZBECK	BBV9744	00246	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	2023-11-16	2024-11-15
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023-11-13	2024-11-12
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2023-11-16	2024-11-15
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	2023-11-16	2024-11-15
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-11-16	2024-11-15
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	2023-11-16	2024-11-15
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023-11-13	2024-11-12



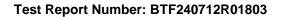


4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

4.3 Test Modes

No.	Test Modes	Description
TM1	802.11b mode	Keep the EUT in 802.11b transmitting mode.
TM2	802.11g mode	Keep the EUT in 802.11g transmitting mode.
TM3	802.11n(HT20) mode	Keep the EUT in 802.11n(HT20) transmitting mode.
TM4	802.11n(HT40) mode	Keep the EUT in 802.11n(HT40) transmitting mode.





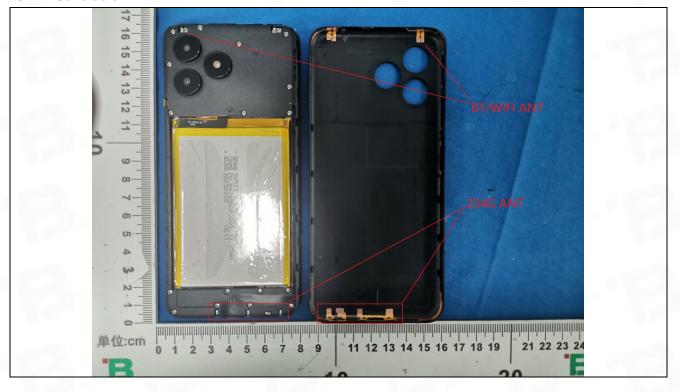
5 Evaluation Results (Evaluation)

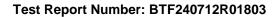
5.1 Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

5.1.1 Conclusion:







6 Radio Spectrum Matter Test Results (RF)

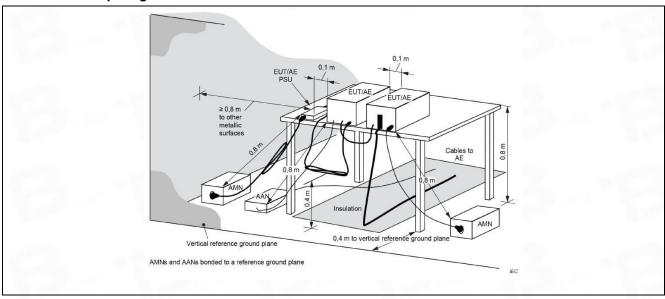
6.1 Conducted Emission at AC power line

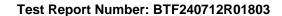
Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).							
Test Method:	ANSI C63.10-2013 section 6.2							
	Frequency of emission (MHz)	Conducted limit (dBµV)						
		Quasi-peak	Average					
Test Limit:	0.15-0.5	66 to 56*	56 to 46*					
Test Littit.	0.5-5	56	46					
	5-30	60	50					
	*Decreases with the logarithm of the frequency.							
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line							
Flocedule.	conducted emissions from unlicen	conducted emissions from unlicensed wireless devices						

6.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.7 °C
Humidity:	48.1 %
Atmospheric Pressure:	1010 mbar

6.1.2 Test Setup Diagram:

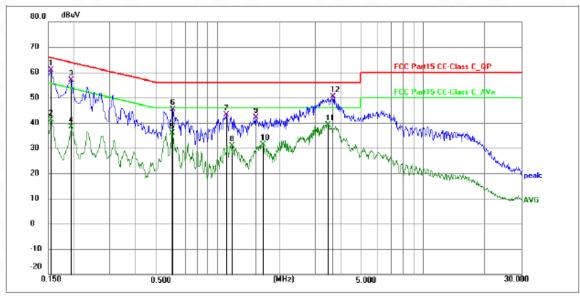




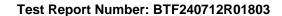


6.1.3 Test Data:

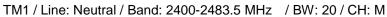
TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 20 / CH: M

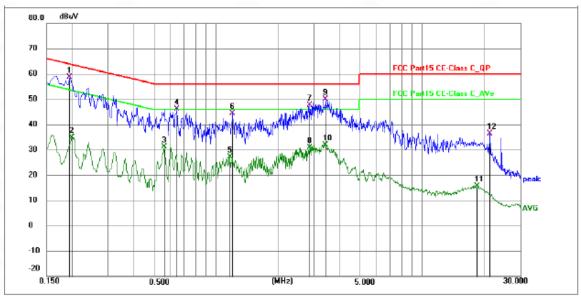


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1544	50.34	10.46	60.80	65.76	-4.96	QP	Р	
2	0.1544	30.72	10.46	41.18	55.76	-14.58	AVG	Р	
3	0.1949	46.33	10.55	56.88	63.83	-6.95	QP	Р	
4	0.1949	27.85	10.55	38.40	53.83	-15.43	AVG	Р	
5	0.6000	25.35	10.63	35.98	46.00	-10.02	AVG	Р	
6	0.6045	34.82	10.63	45.45	56.00	-10.55	QP	Р	
7	1.1040	32.56	10.66	43.22	56.00	-12.78	QP	Р	
8	1.1849	20.13	10.66	30.79	46.00	-15.21	AVG	Р	
9	1.5403	31.52	10.66	42.18	56.00	-13.82	QP	Р	
10	1.6665	20.74	10.67	31.41	46.00	-14.59	AVG	Р	
11	3.4440	28.39	10.64	39.03	46.00	-6.97	AVG	Р	
12	3.6420	39.68	10.64	50.32	56.00	-5.68	QP	Р	

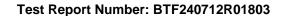








No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1949	48.16	10.55	58.71	63.83	-5.12	QP	Р	
2	0.1995	24.35	10.56	34.91	53.63	-18.72	AVG	Р	
3	0.5594	20.61	10.61	31.22	46.00	-14.78	AVG	Р	
4	0.6450	35.45	10.65	46.10	56.00	-9.90	QP	Р	
5	1.1670	16.49	10.66	27.15	46.00	-18.85	AVG	Р	
6	1.2075	33.74	10.66	44.40	56.00	-11.60	QP	Р	
7	2.8500	36.92	10.68	47.60	56.00	-8.40	QP	Р	
8	2.8500	20.14	10.68	30.82	46.00	-15.18	AVG	Р	
9	3.4080	39.27	10.64	49.91	56.00	-6.09	QP	Р	
10	3.4080	21.35	10.64	31.99	46.00	-14.01	AVG	Р	
11	18.7119	4.64	10.99	15.63	50.00	-34.37	AVG	Р	
12	21.3540	25.32	11.09	36.41	60.00	-23.59	QP	Р	





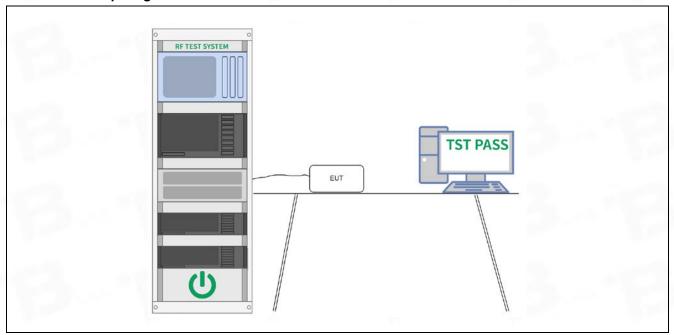
6.2 Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)				
Test Method: ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02					
Refer to 47 CFR 15.247(a)(2), Systems using digital modulation technique operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum bandwidth shall be at least 500 kHz.					
Procedure:	a) Set RBW = 100 kHz. b) Set the VBW >= [3 x RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.				

6.2.1 E.U.T. Operation:

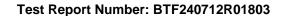
Operating Environment:	
Temperature:	24.3 °C
Humidity:	50 %
Atmospheric Pressure:	1010 mbar

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.





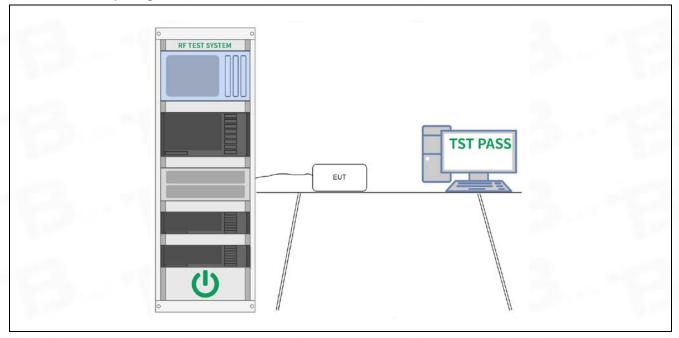
6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Method:	ANSI C63.10-2013, section 11.9.1
Test Metriou.	KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Procedure:	ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power

6.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.3 °C
Humidity:	50 %
Atmospheric Pressure:	1010 mbar

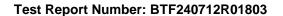
6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.

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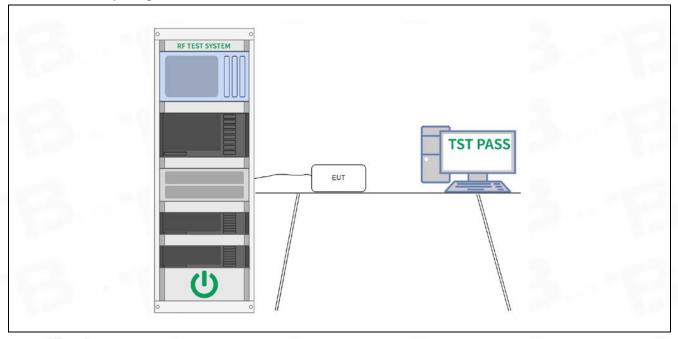
6.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Method:	ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Procedure:	ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emission

6.4.1 E.U.T. Operation:

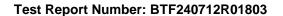
Operating Environment:	
Temperature:	24.3 °C
Humidity:	50 %
Atmospheric Pressure:	1010 mbar

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.





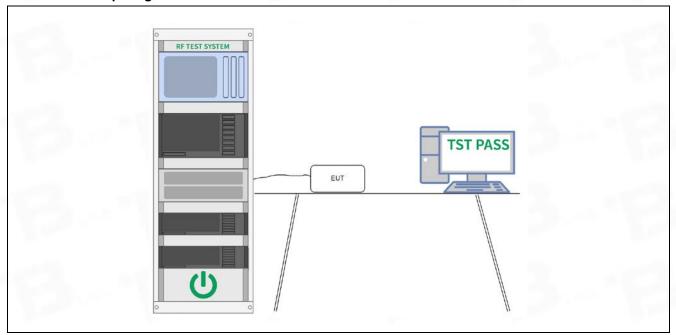
6.5 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Method:	ANSI C63.10-2013 section 11.11
Test Method.	KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.5.1 E.U.T. Operation:

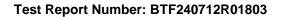
Operating Environment:	
Temperature:	24.3 °C
Humidity:	50 %
Atmospheric Pressure:	1010 mbar

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.





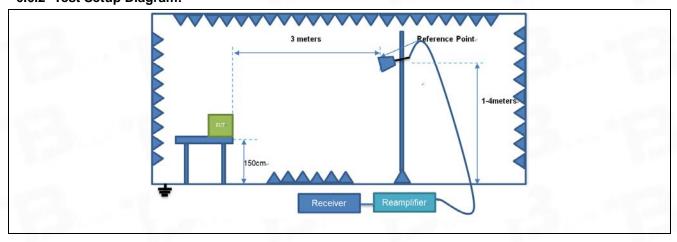
6.6 Band edge emissions (Radiated)

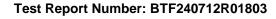
	15 () 15 055 (5 045 (1					
), In addition, radiated emission				
Test Requirement:		ed in § 15.205(a), must also co				
		n § 15.209(a)(see § 15.205(c)).				
Test Method:	ANSI C63.10-2013 section					
	KDB 558074 D01 15.247					
	Frequency (MHz)	Field strength	Measurement			
		(microvolts/meter)	distance			
			(meters)			
	0.009-0.490	2400/F(kHz)	300			
	0.490-1.705	24000/F(kHz)	30			
	1.705-30.0	30	30			
	30-88	100 **	3			
	88-216	150 **	3			
	216-960	200 **	3			
Test Limit:	Above 960	500	3			
	** Except as provided in p	aragraph (g), fundamental emi	ssions from intentional			
	radiators operating under this section shall not be located in the frequency bands					
	54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within					
	these frequency bands is permitted under other sections of this part, e.g., §§					
	15.231 and 15.241.					
	In the emission table above, the tighter limit applies at the band edges.					
	The emission limits shown in the above table are based on measurements					
	employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz,					
	110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands					
	are based on measureme	nts employing an average dete	ector.			
Procedure:	ANSI C63.10-2013 section	n 6.10.5 <mark>.2</mark>				

6.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.7 °C
Humidity:	52.3 %
Atmospheric Pressure:	1010 mbar

6.6.2 Test Setup Diagram:







6.6.3 Test Data:

All modes are tested, and only the worst mode 802.11b is showed in the report The peak value is less than the AV limit 54dBuV/m, and the AV value is not evaluated TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.00	92.77	-43.68	49.09	74.00	-24.91	peak
2	2390.00	92.22	-43.64	48.58	74.00	-25.42	peak

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L

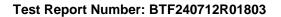
	No.	Frequency	Reading	Factor	Level	Limit	Margin	Dotostor
		(MHz)	Level(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Detector
	1	2310.00	93.09	-43.68	49.41	74.00	-24.59	peak
	2	2390.00	92.54	-43.64	48.90	74.00	-25.10	peak

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H

	No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector
		(MHz)	Level(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Detector
	1	2483.50	93.86	-43.58	50.28	74.00	-23.72	peak
	2	2500.00	94.11	-43.58	50.53	74.00	-23.47	peak

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H

	No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
ł	1	2483.50	94.18	-43.58	50.60	74.00	-23.40	peak
	2	2500.00	94.43	-43.58	50.85	74.00	-23.15	peak





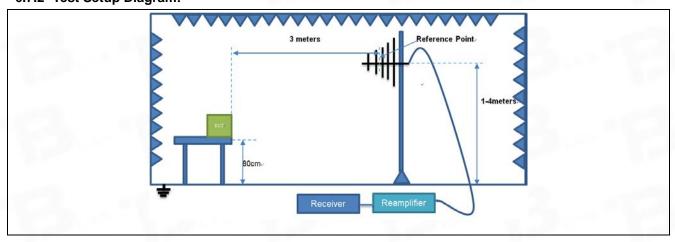
6.7 Emissions in frequency bands (below 1GHz)

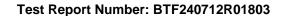
	D () 47 OFD 45 0 (5)		1 1 1 6 11 1 41		
		l), In addition, radiated emissio			
Test Requirement:		ed in § 15.205(a), must also co			
		n § 15.209(a)(see § 15.205(c))			
Test Method:	ANSI C63.10-2013 section 6.6.4				
Test Wethod.	KDB 558074 D01 15.247	Meas Guidance v05r02			
	Frequency (MHz)	Field strength	Measurement		
		(microvolts/meter)	distance		
			(meters)		
	0.009-0.490	2400/F(kHz)	300		
	0.490-1.705	24000/F(kHz)	30		
	1.705-30.0	30	30		
	30-88	100 **	3		
	88-216	150 **	3		
	216-960	200 **	3		
Test Limit:	Above 960	500	3		
1 oot Emmi	** Except as provided in p	aragraph (g), fundamental emi	issions from intentional		
	radiators operating under this section shall not be located in the frequency bands				
	54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within				
	these frequency bands is permitted under other sections of this part, e.g., §§				
	15.231 and 15.241.				
	In the emission table above, the tighter limit applies at the band edges.				
	The emission limits shown in the above table are based on measurements				
	employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz,				
	110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands				
	are based on measurements employing an average detector.				
Procedure:	ANSI C63.10-2013 sectio	n 6.6.4			

6.7.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.7 °C
Humidity:	52.3 %
Atmospheric Pressure:	1010 mbar

6.7.2 Test Setup Diagram:

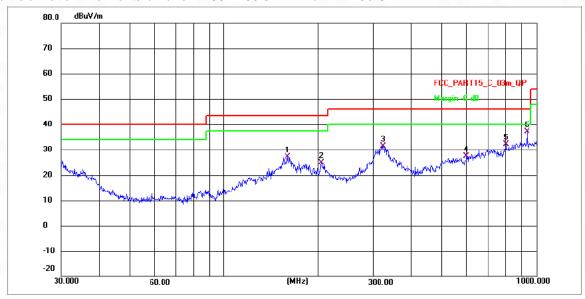




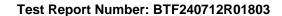


6.7.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: M

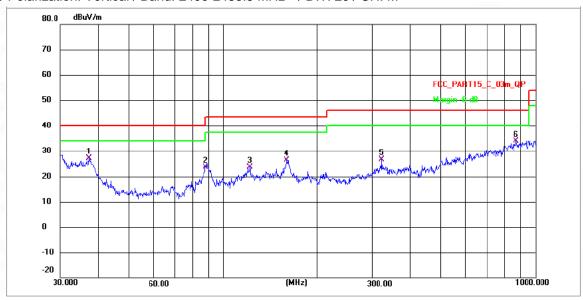


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	159.5045	48.98	-21.92	27.06	43.50	-16.44	QP	Р
2	204.9550	46.38	-21.49	24.89	43.50	-18.61	QP	Р
3	323.8876	51.79	-20.43	31.36	46.00	-14.64	QP	Р
4	598.2712	45.76	-18.36	27.40	46.00	-18.60	QP	Р
5	800.3817	49.97	-17.85	32.12	46.00	-13.88	QP	Р
6 *	933.9075	53.25	-16.00	37.25	46.00	-8.75	QP	Р

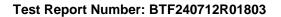








No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	37.1550	31.33	-4.31	27.02	40.00	-12.98	QP	Р
2	87.8786	46.40	-22.66	23.74	40.00	-16.26	QP	Р
3	121.7617	45.88	-22.27	23.61	43.50	-19.89	QP	Р
4	160.0646	48.40	-21.92	26.48	43.50	-17.02	QP	Р
5	322.7540	46.97	-20.44	26.53	46.00	-19.47	QP	Р
6 *	869.1300	50.53	-16.73	33.80	46.00	-12.20	QP	Р





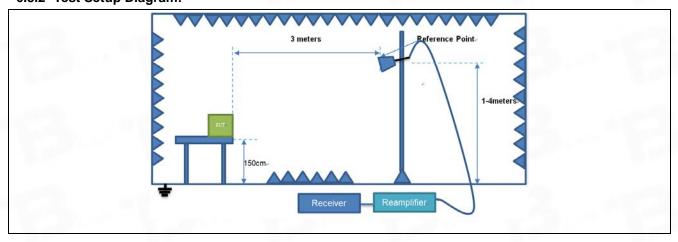
6.8 Emissions in frequency bands (above 1GHz)

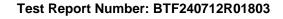
	In addition, radiated emi	ssions which fall in the restricted	d bands, as defined in §				
Test Requirement:	15.205(a), must also comply with the radiated emission limits specified in §						
r cot r toquironicina	15.209(a)(see § 15.205(minto opcomod in g				
	ANSI C63.10-2013 section 6.6.4						
Test Method:		7 Meas Guidance v05r02					
	Frequency (MHz)	Field strength	Measurement				
	((microvolts/meter)	distance				
		(**************************************	(meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	24000/F(kHz)	30				
	1.705-30.0	30	30				
	30-88	100 **	3				
	88-216	150 **	3				
	216-960	200 **	3				
Test Limit:	Above 960	500	3				
TOST EITHE.	** Except as provided in	paragraph (g), fundamental em	issions from intentional				
		r this section shall not be locate					
		174-216 MHz or 470-806 MHz.	·				
	·	s permitted under other sections	s of this part, e.g., §§				
	15.231 and 15.241.						
		ove, the tighter limit applies at the					
		The emission limits shown in the above table are based on measurements					
		employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz,					
		110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands					
		ents employing an average dete	ector.				
Procedure:	ANSI C63.10-2013 secti	on 6.6.4					

6.8.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.7 °C
Humidity:	52.3 %
Atmospheric Pressure:	1010 mbar

6.8.2 Test Setup Diagram:







6.8.3 Test Data:

All modes are tested, and only the worst mode 802.11b is showed in the report The peak value is less than the AV limit 54dBuV/m, and the AV value is not evaluated

- 1					i				
	No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	F/F
	1	4824.000	89.25	-48.83	40.42	74.00	-33.58	peak	Р
	2	7236.000	91.79	-46.88	44.91	74.00	-29.09	peak	Р
	3	9648.000	93.18	-45.51	47.67	74.00	-26.33	peak	Р

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L

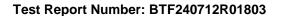
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	F/F
1	4824.000	89.60	-48.83	40.77	74.00	-33.23	peak	Р
2	7236.000	92.04	-46.88	45.16	74.00	-28.84	peak	Р
3	9648.000	93.86	-45.51	48.35	74.00	-25.65	peak	Р

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: M

	No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
	INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	F/F
	1	4874.000	88.69	-48.83	39.86	74.00	-34.14	peak	Р
	2	7311.000	91.23	-46.88	44.35	74.00	-29.65	peak	Р
	3	9748.000	92.62	-45.51	47.11	74.00	-26.89	peak	Р

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: M

		_						
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	F/F
1	4874.000	89.04	-48.83	40.21	74.00	-33.79	peak	Р
2	7311.000	91.48	-46.88	44.60	74.00	-29.40	peak	Р
3	9748.000	93.30	-45.51	47.79	74.00	-26.21	peak	Р



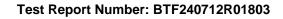


TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H

No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	F/F
1	4924.000	89.71	-48.71	41.00	74.00	-33.00	peak	Р
2	7386.000	92.25	-46.76	45.49	74.00	-28.51	peak	Р
3	9848.000	93.64	-45.39	48.25	74.00	-25.75	peak	Р

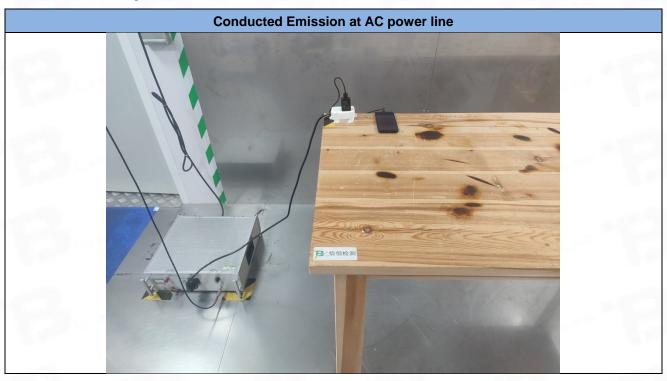
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H

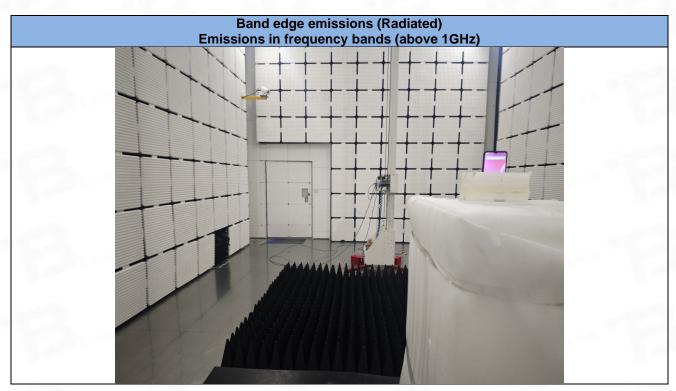
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	F/F
1	4924.000	90.00	-48.71	41.29	74.00	-32.71	peak	Р
2	7386.000	92.44	-46.76	45.68	74.00	-28.32	peak	Р
3	9848.000	94.26	-45.39	48.87	74.00	-25.13	peak	Р

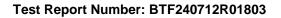




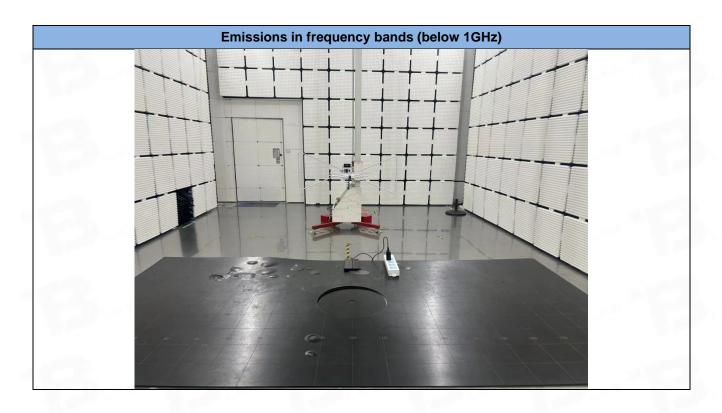
Test Setup Photos 7









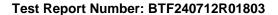






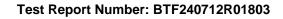
EUT Constructional Details (EUT Photos)

Please refer to appendix of EUT





Appendix



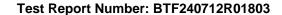


1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

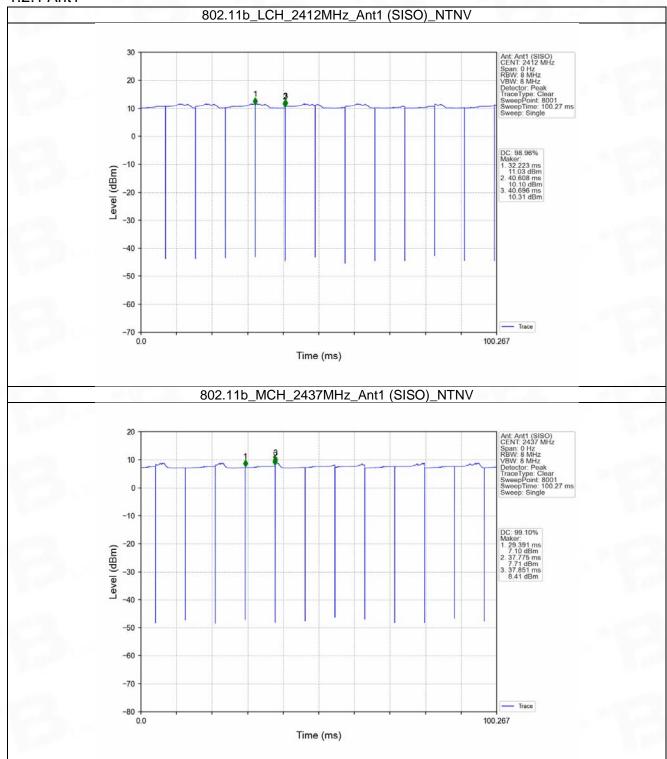
				Α	nt1		
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC
Mode	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
		2412	8.385	8.473	98.96	0.05	0.59
802.11b	SISO	2437	8.384	8.460	99.10	0.04	0.44
		2462	8.385	8.423	99.55	0.02	0.00
		2412	1.401	1.444	97.02	0.13	1.32
802.11g	SISO	2437	1.392	1.444	96.40	0.16	1.31
		2462	1.394	1.446	96.40	0.16	1.34
000 11n		2412	1.302	1.354	96.16	0.17	1.43
802.11n	SISO	2437	1.299	1.360	95.51	0.20	2.07
(HT20)		2462	1.302	1.354	96.16	0.17	1.43

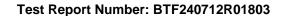




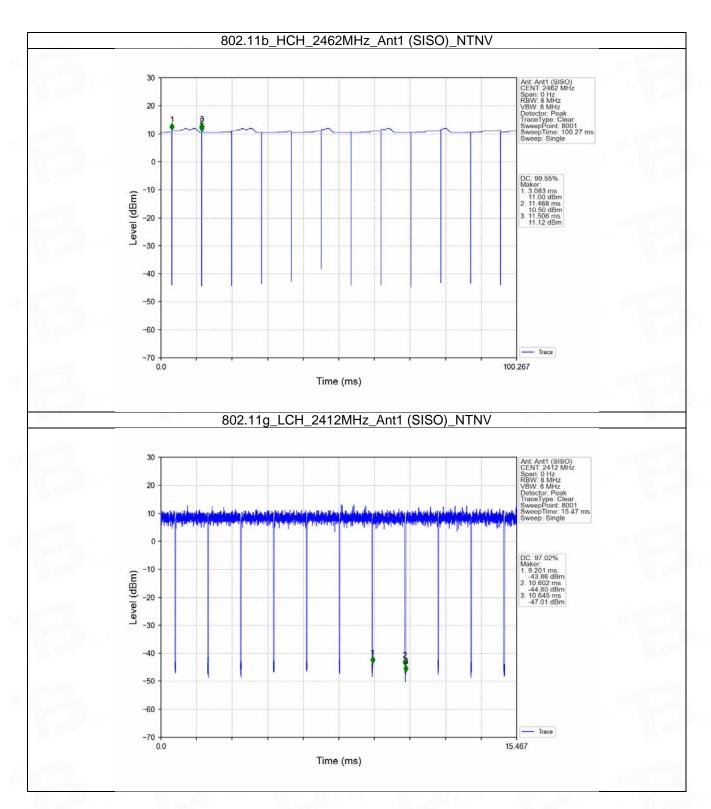
1.2 Test Graph

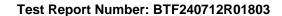
1.2.1 Ant1



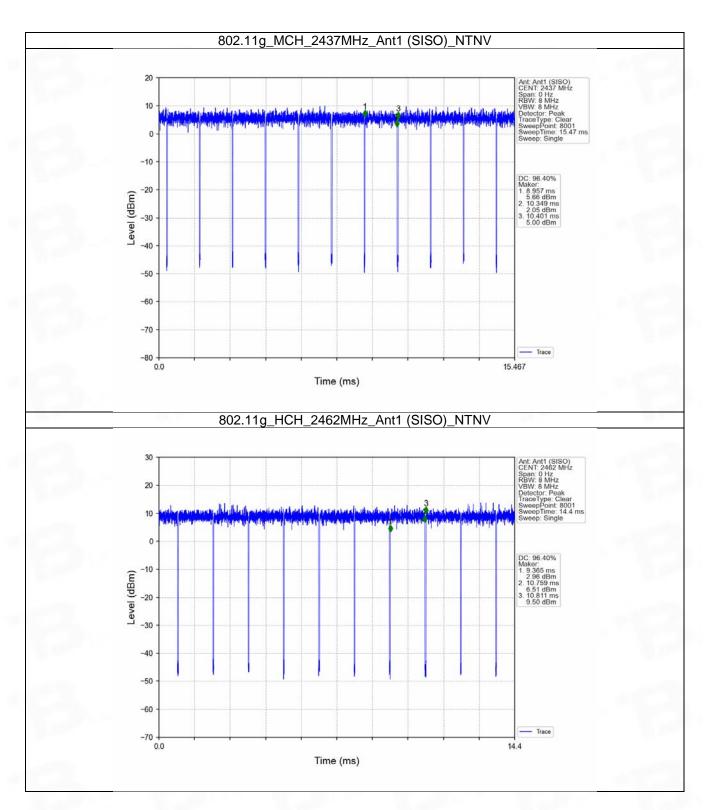


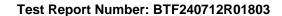




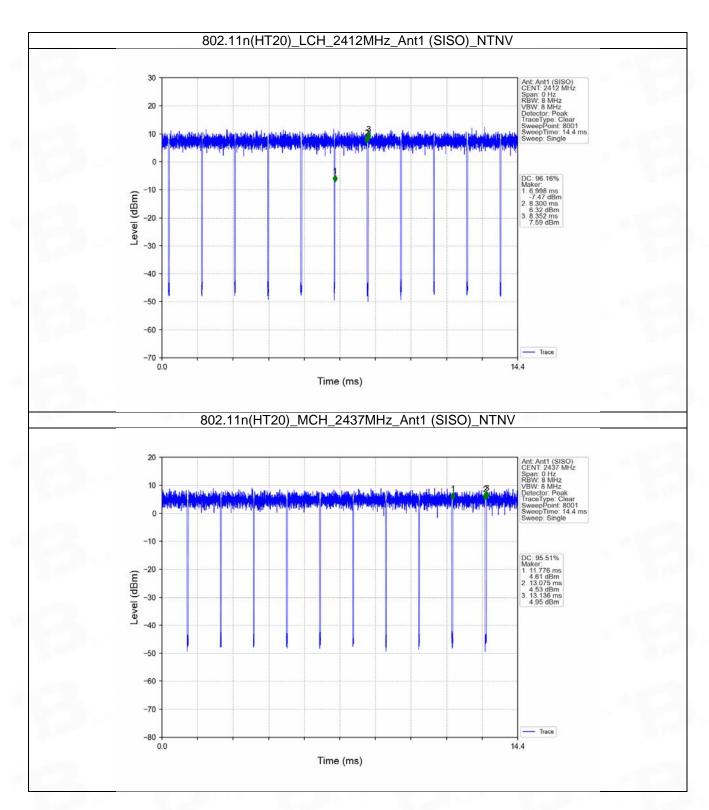


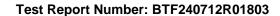




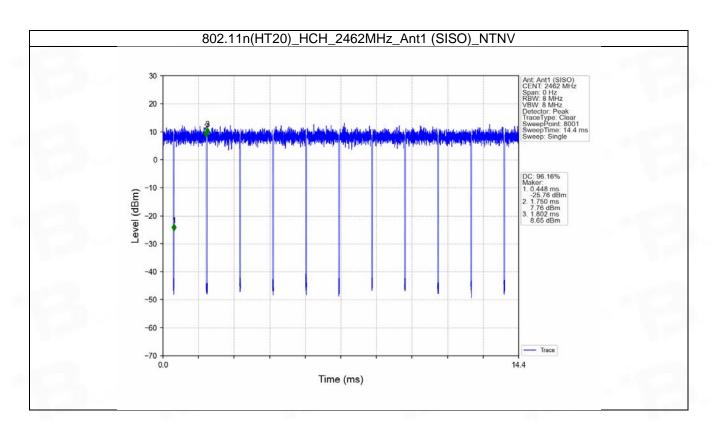


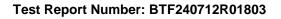














2. Bandwidth

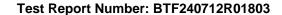
2.1 Test Result

2.1.1 OBW

Mode	TX	I I ANI	ANIT	99% Occupied Bandwidth (MHz)		Vardiet	
Mode Type	Type		AINI	Result	Limit	Verdict	
		2412	1	11.587	1	Pass	
802.11b	SISO	2437	1	11.787	/	Pass	
		2462	1	11.557	1	Pass	
	SISO		2412	1	18.433	1	Pass
802.11g		2437	1	18.662	1	Pass	
		2462	1	18.616	1	Pass	
802.11n (HT20)	000 445		2412	1	19.134	/	Pass
	SISO	2437	1	19.604	/	Pass	
	(H120)		2462	1	19.504	/	Pass

2.1.2 6dB BW

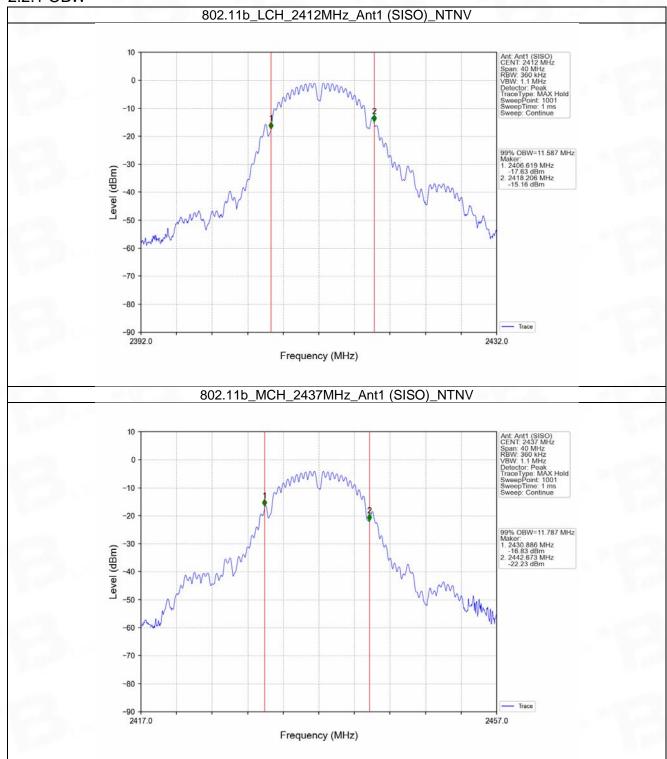
cab b	•						
Mode	TX	Frequency	Frequency ANT		6dB Bandwidth (MHz)		
Mode .	Туре	(MHz)	AINT	Result	Limit	Verdict	
		2412	1	8.599	>=0.5	Pass	
802.11b	SISO	2437	1	8.629	>=0.5	Pass	
		2462	1	8.577	>=0.5	Pass	
	SISO	2412	1	15.739	>=0.5	Pass	
802.11g		2437	1	16.404	>=0.5	Pass	
		2462	1	16.065	>=0.5	Pass	
802.11n (HT20)	SISO	SISO	2412	1	16.062	>=0.5	Pass
			2437	1	17.356	>=0.5	Pass
))	2462	1	16.053	>=0.5	Pass	

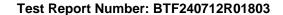




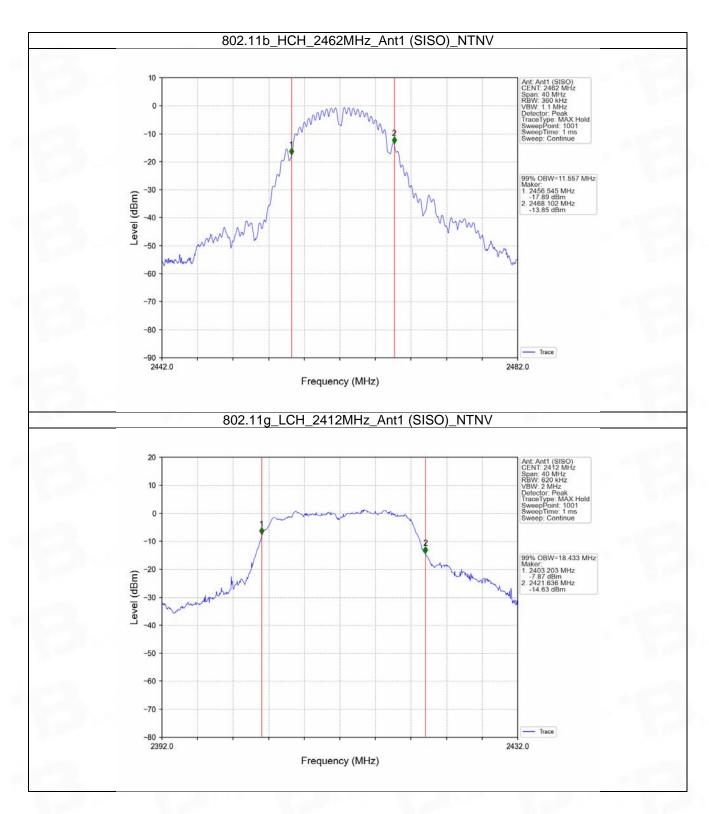
2.2 Test Graph

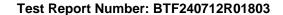
2.2.1 OBW



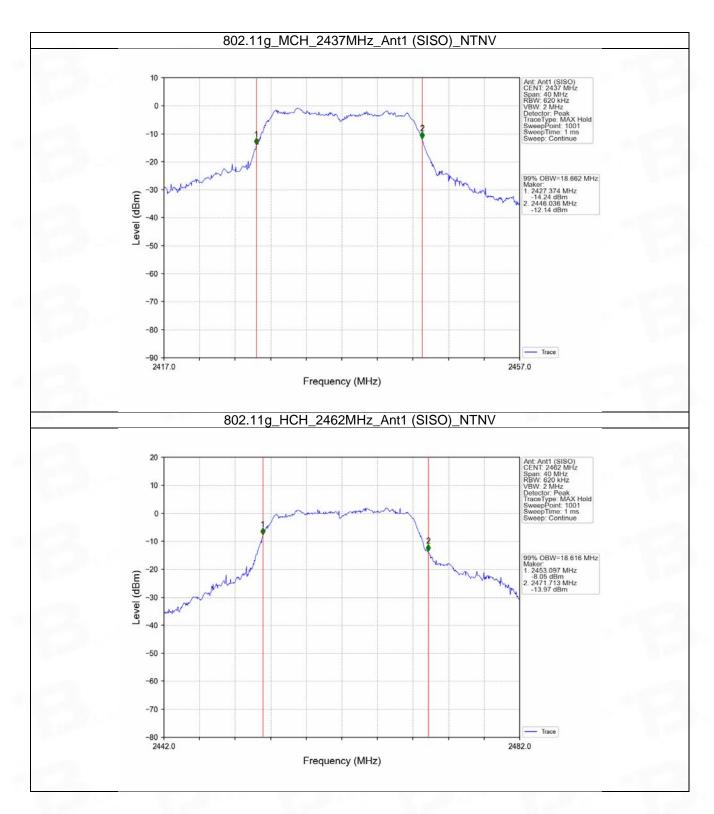


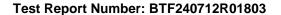




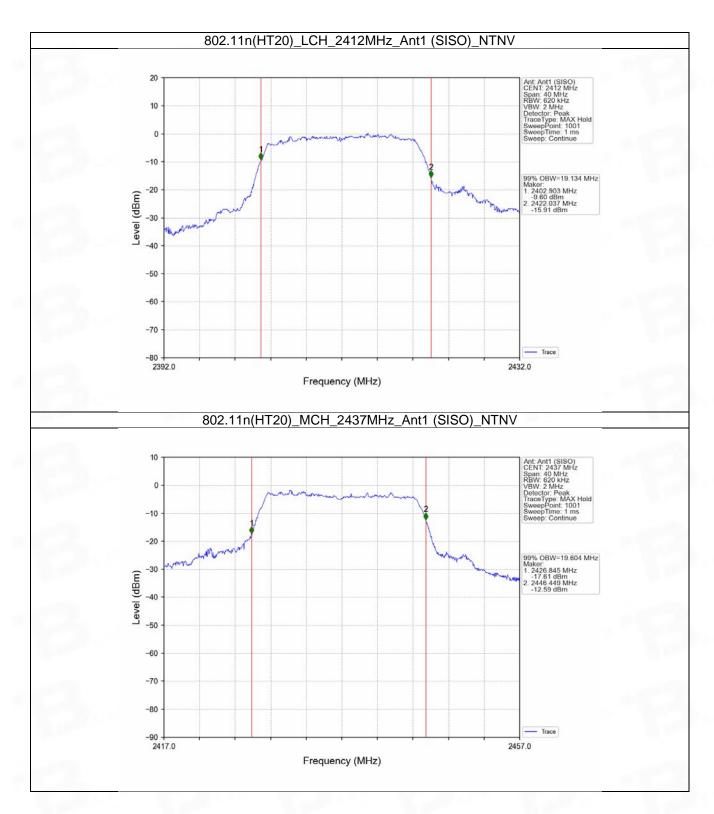


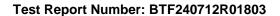




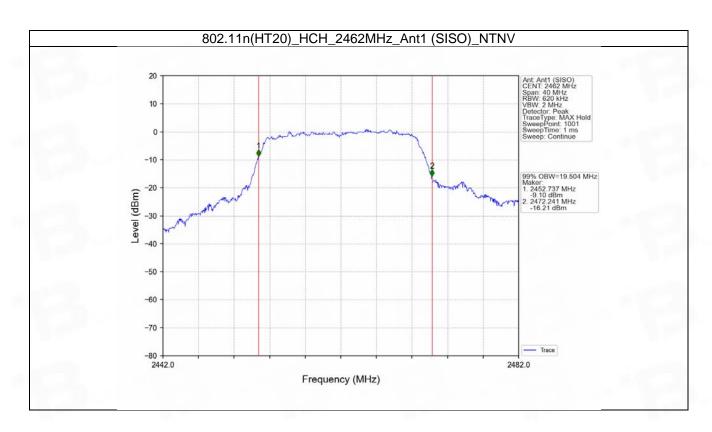


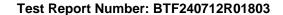






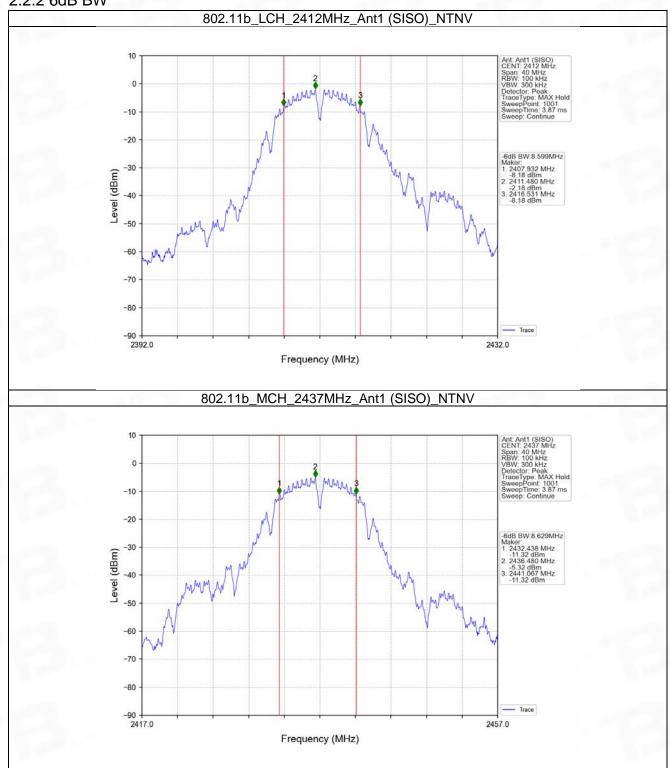


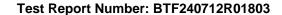




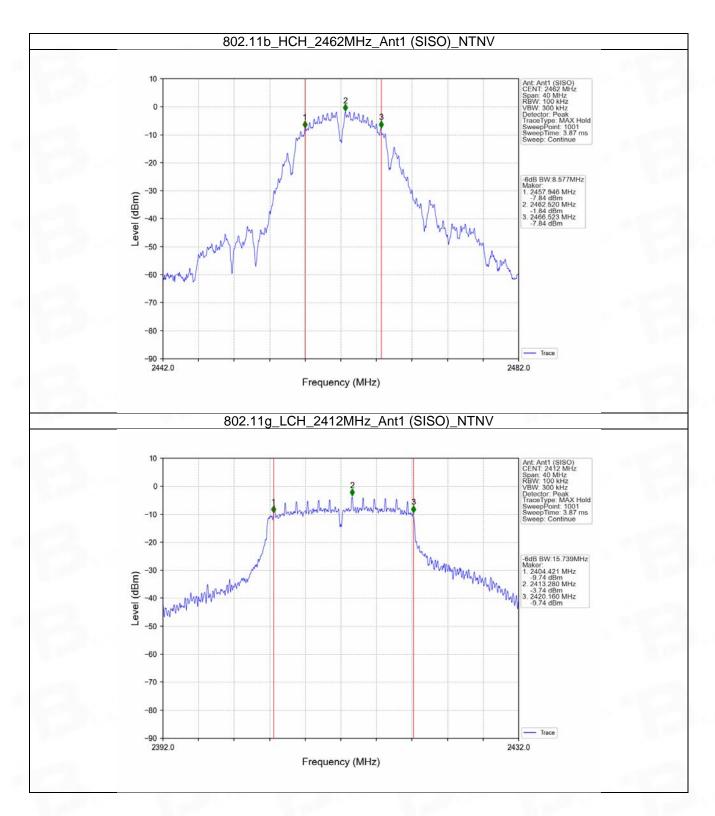


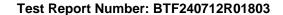
2.2.2 6dB BW



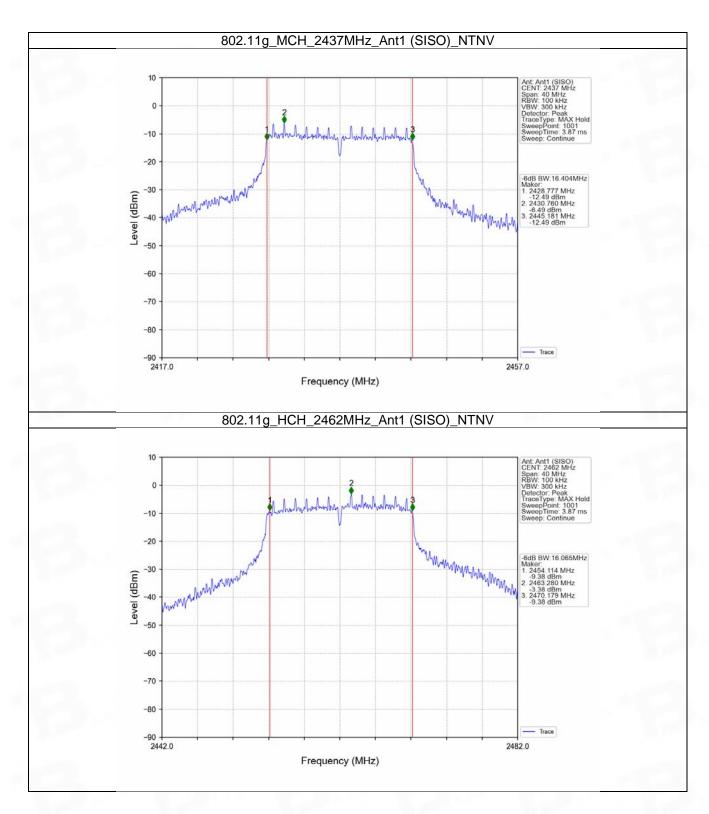


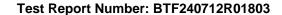




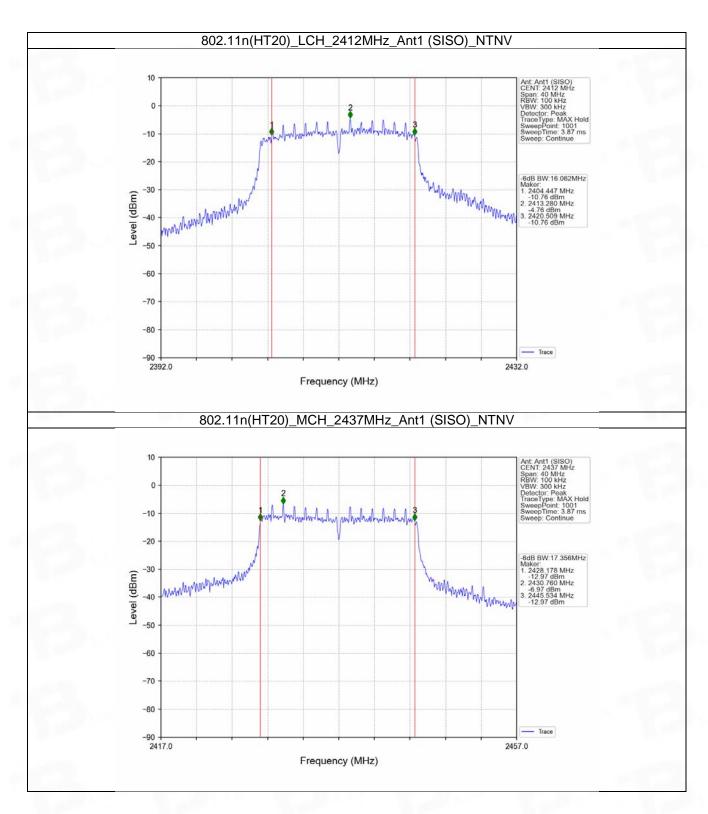


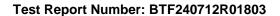




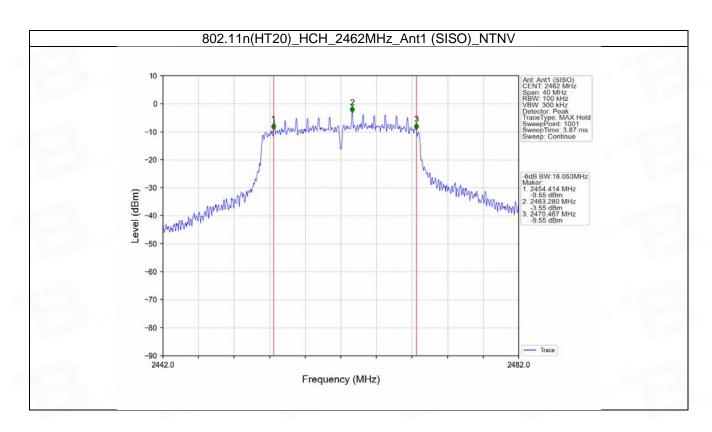


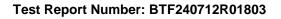












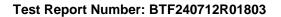


3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode TX Type		Frequency	Maximum Peak Conduc	\/ovdiot	
		(MHz)	ANT1	Limit	Verdict
		2412	9.47	<=30	Pass
802.11b SIS	SISO	2437	6.37	<=30	Pass
		2462	9.71	<=30	Pass
802.11g S		2412	14.14	<=30	Pass
	SISO	2437	11.84	<=30	Pass
		2462	14.80	<=30	Pass
802.11n (HT20)	SISO	2412	12.97	<=30	Pass
		2437	11.26	<=30	Pass
		2462	13.91	<=30	Pass



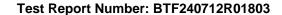


4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

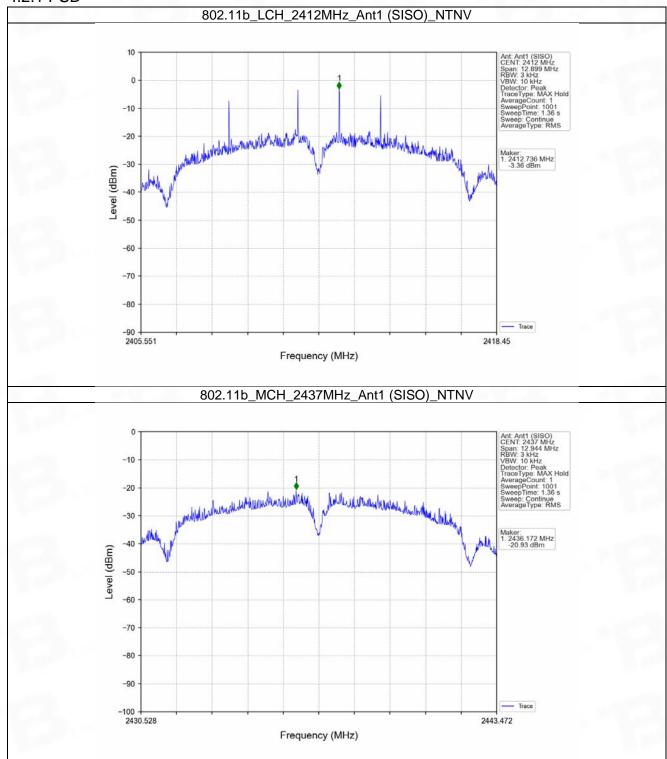
Mode	TX	Frequency	Maximum PSD (dBm/3kHz)		\/a = d: a4
Mode	Туре	(MHz)	ANT1	Limit	Verdict
		2412	-3.36	<=8	Pass
802.11b	SISO	2437	-20.93	<=8	Pass
		2462	-16.79	<=8	Pass
802.11g	SISO	2412	-19.36	<=8	Pass
		2437	-22.00	<=8	Pass
		2462	-19.42	<=8	Pass
802.11n (HT20)	SISO	2412	-21.47	<=8	Pass
		2437	-23.73	<=8	Pass
		2462	-20.64	<=8	Pass

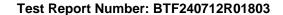




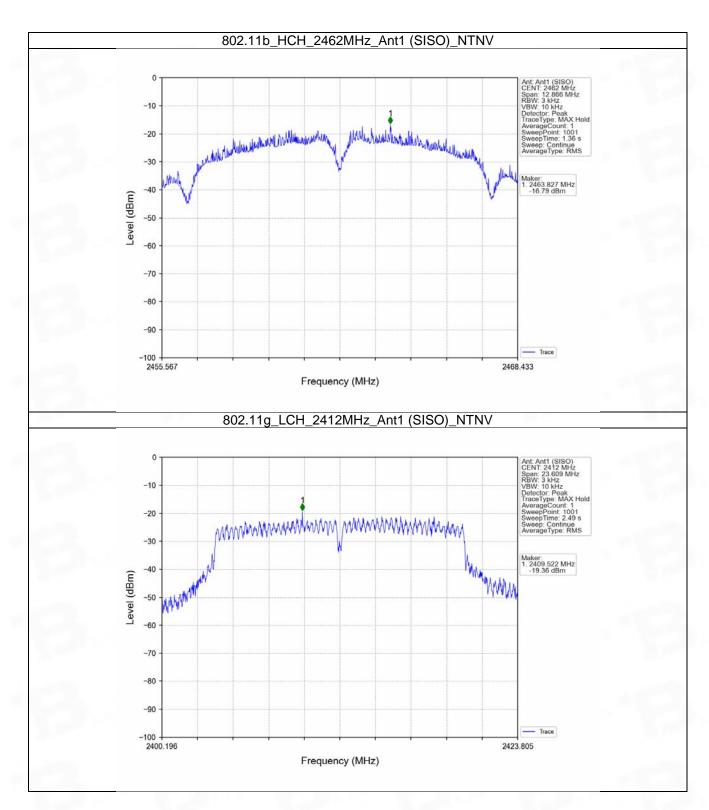
4.2 Test Graph

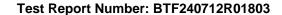
4.2.1 PSD



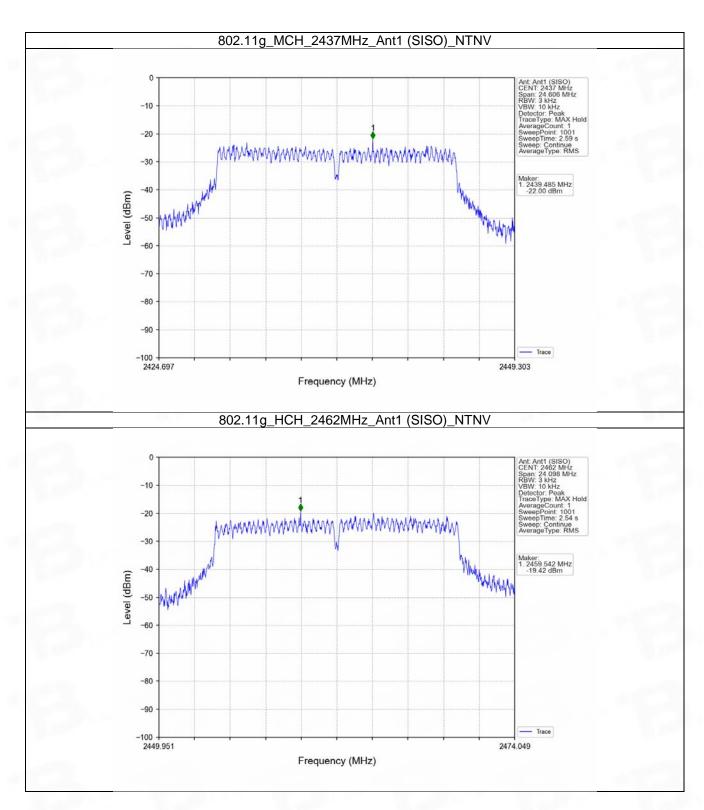


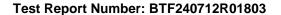




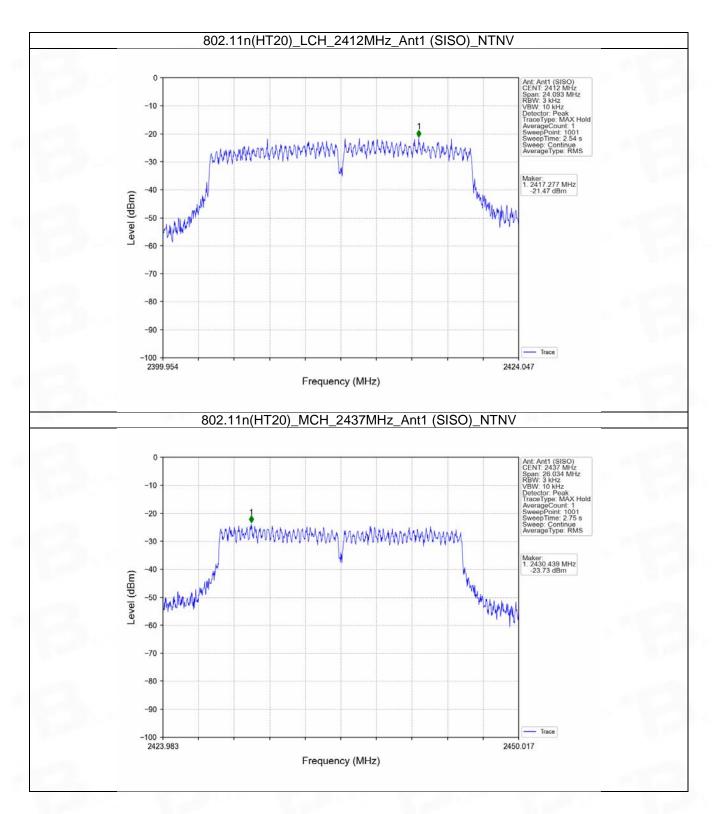


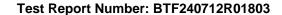




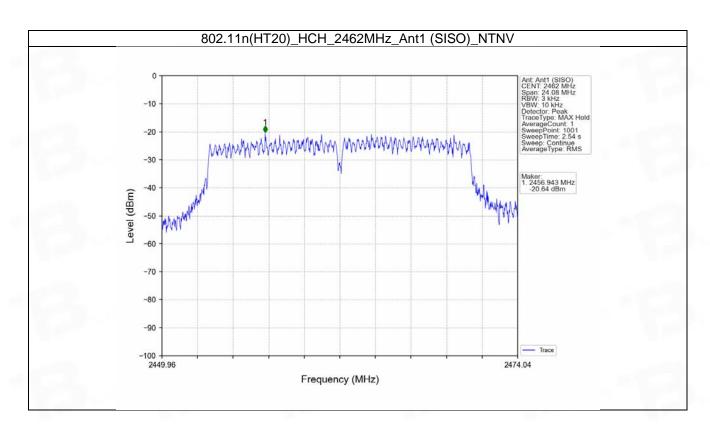














5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

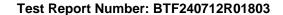
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2412	1	-1,27
802.11b	SISO	2437	1	-5.36
		2462	1	-1.90
	SISO	2412	1	-3.82
802.11g		2437	1	-6.44
3		2462	1	-3.03
		2412	1	-4.59
802.11n	SISO	2437	1	-6.96
(HT20)		2462	1	-3.58

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict	
		2412	1	-1.27	-21.27	Pass	
802.11b	SISO	2437	1	-1.27	-21.27	Pass	
		2462	1	-1.27	-21.27	Pass	
	SISO	2412	1	-3.03	-23.03	Pass	
802.11g		2437	1	-3.03	-23.03	Pass	
		2462	1	-3.03	-23.03	Pass	
000 445	SISO	200 44	2412	1	-3.58	-23.58	Pass
802.11n		2437	1	-3.58	-23.58	Pass	
(HT20)		2462	1	-3.58	-23.58	Pass	

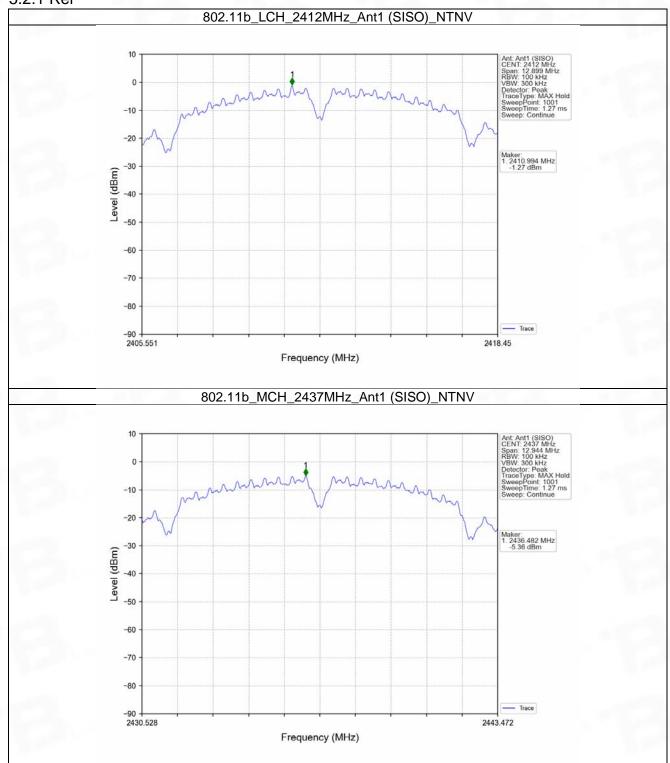
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

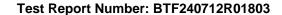




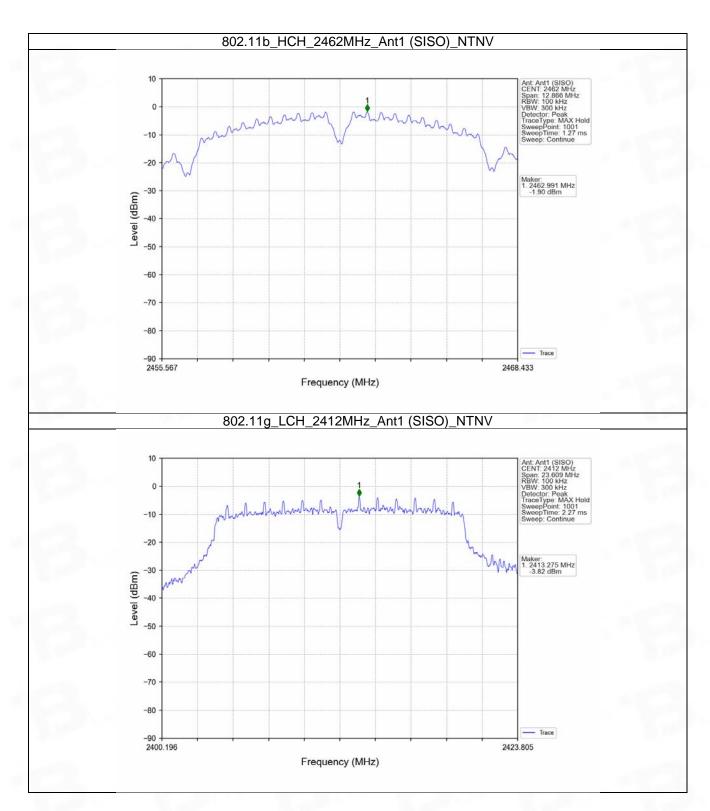
5.2 Test Graph

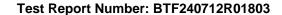




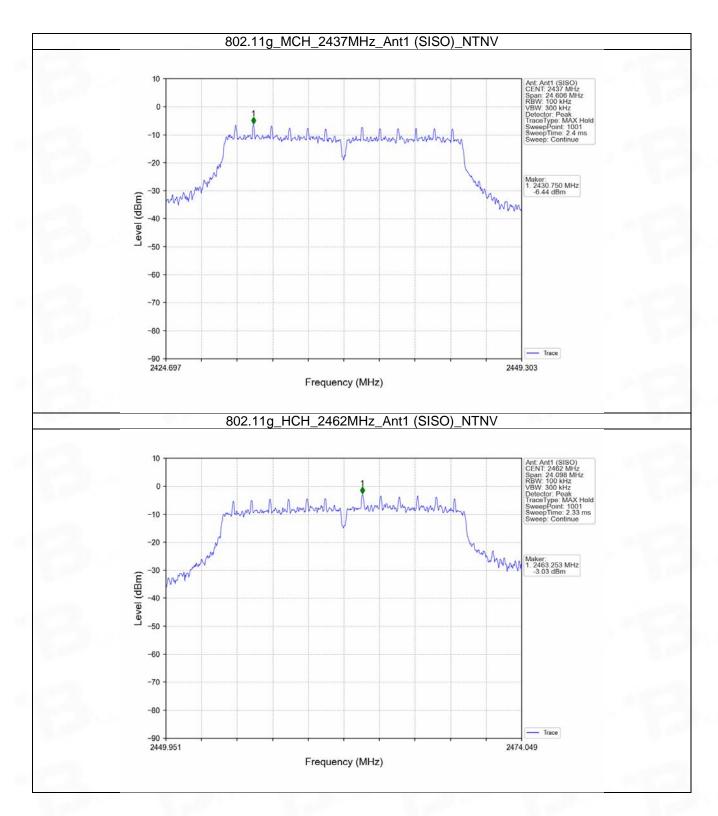


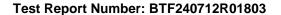




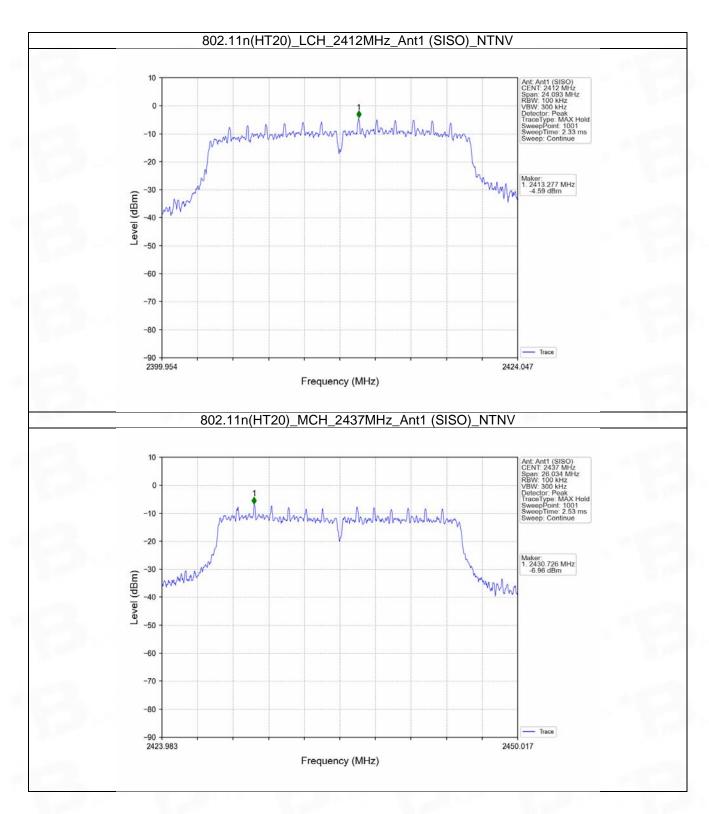


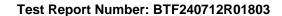




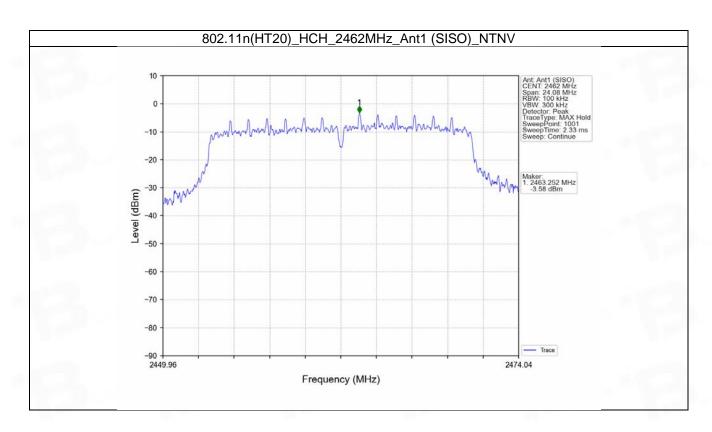


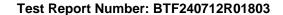






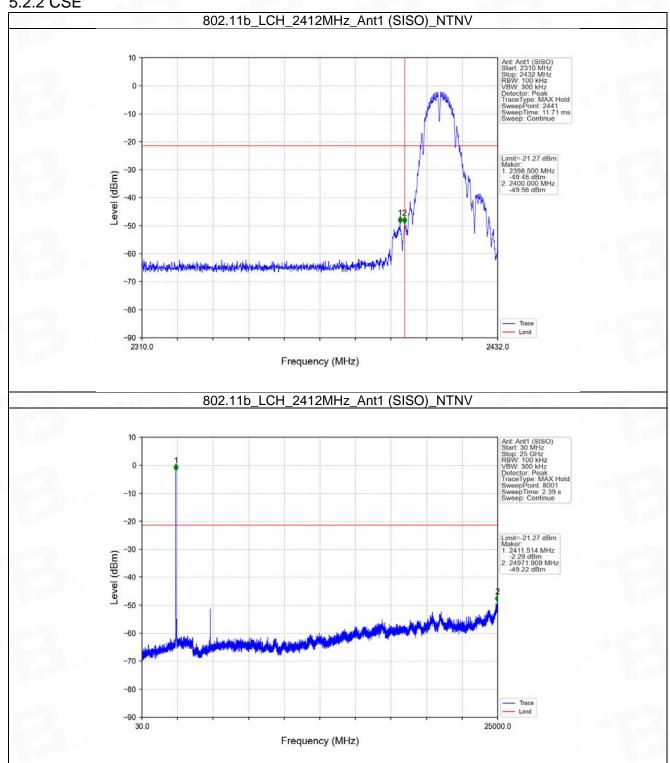


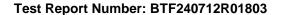




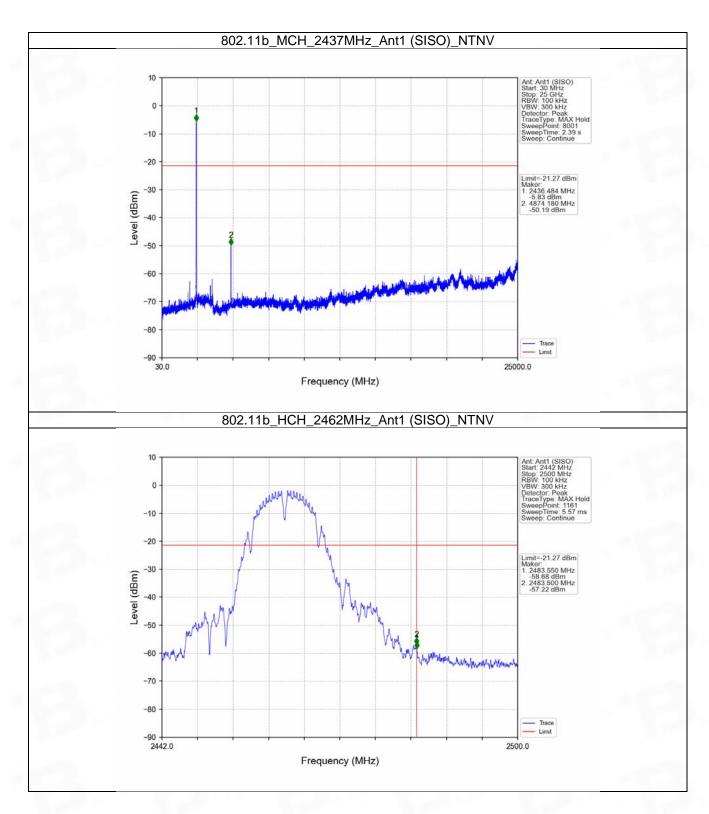


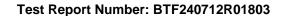
5.2.2 CSE



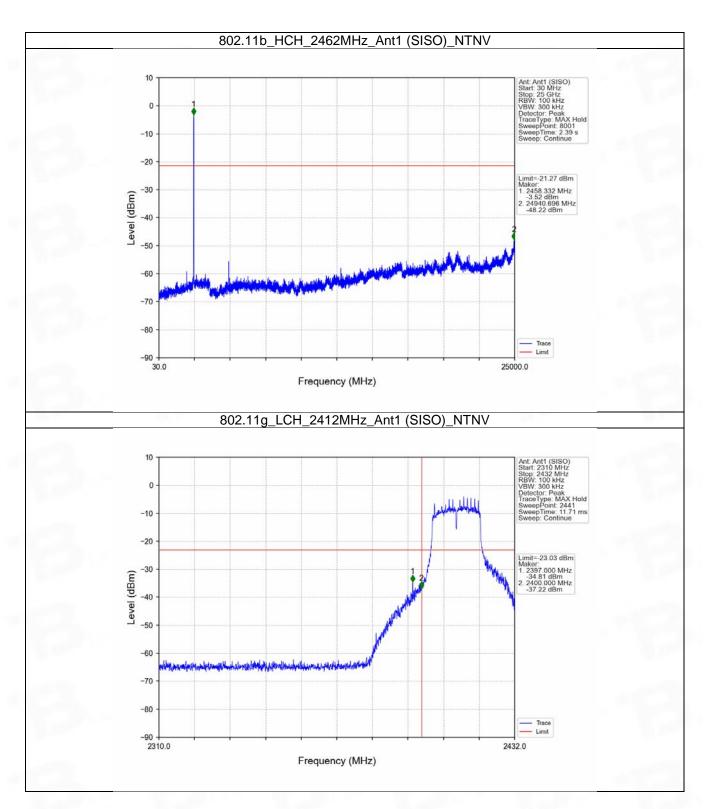


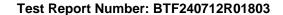




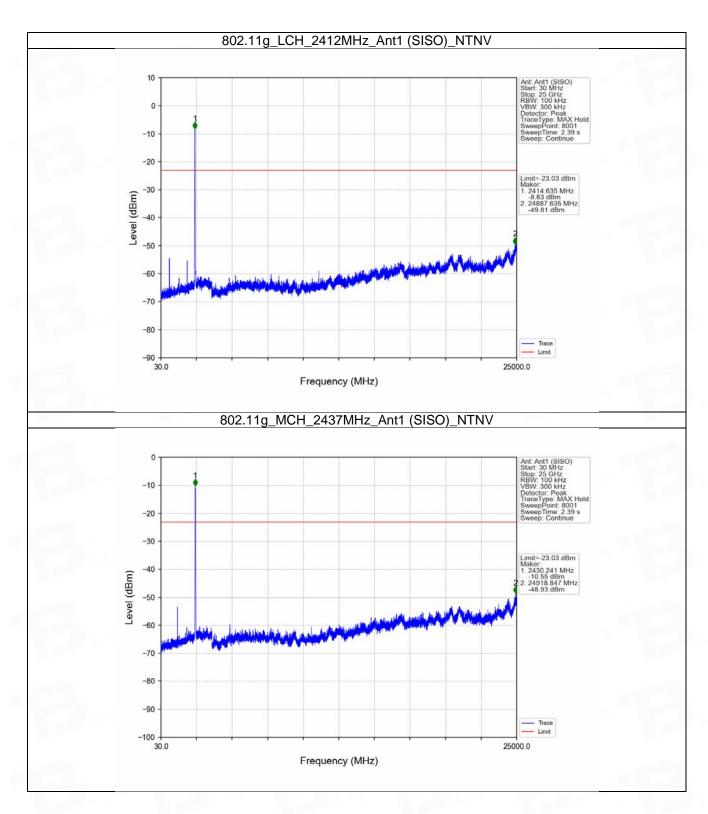


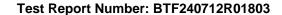




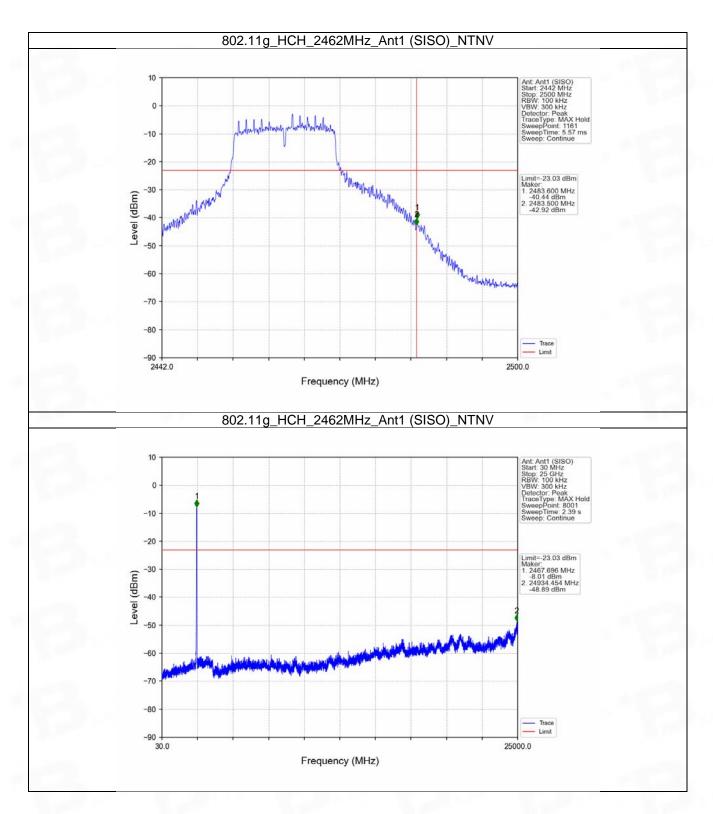


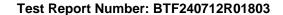




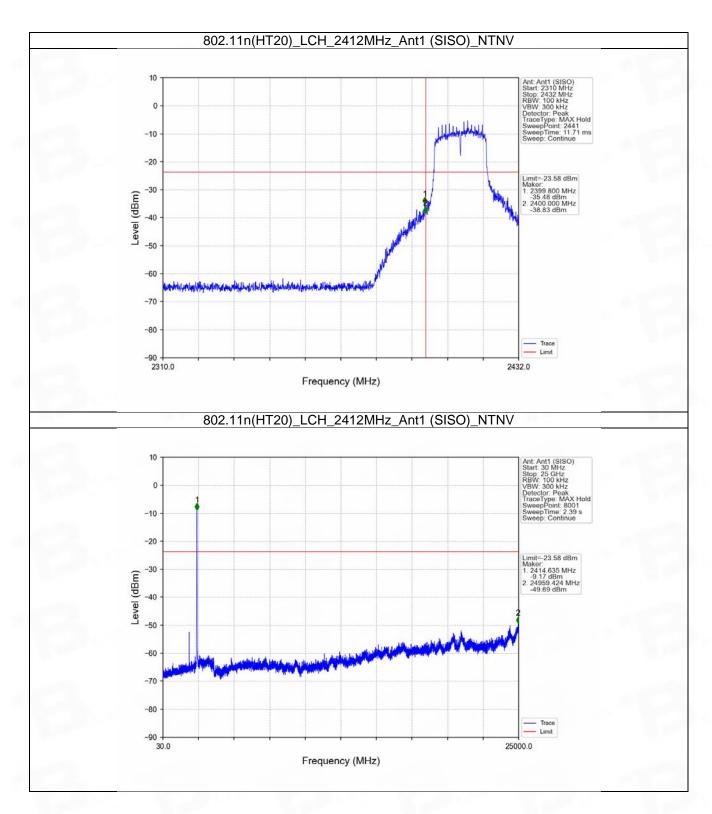


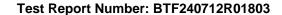




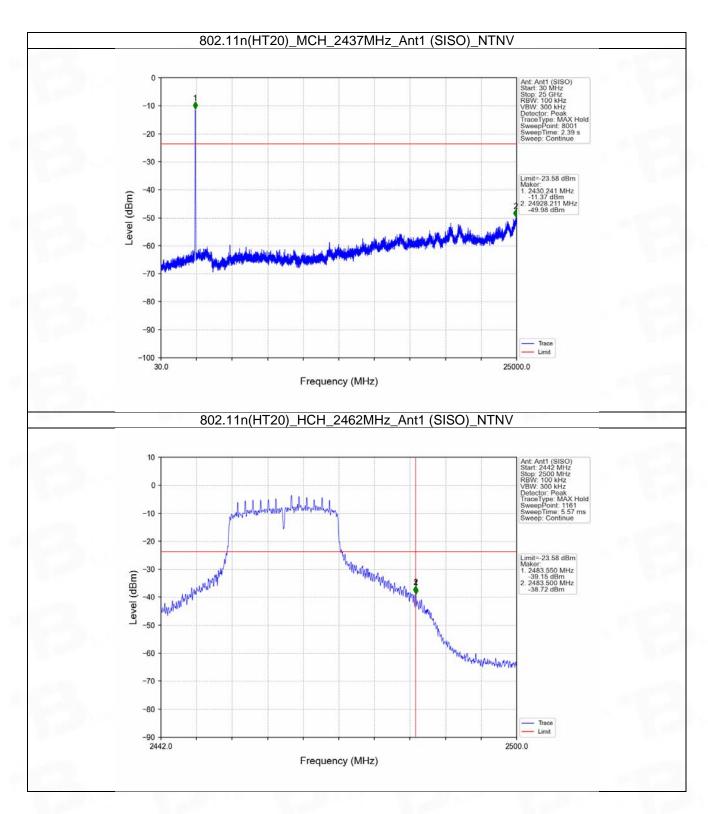


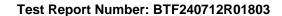




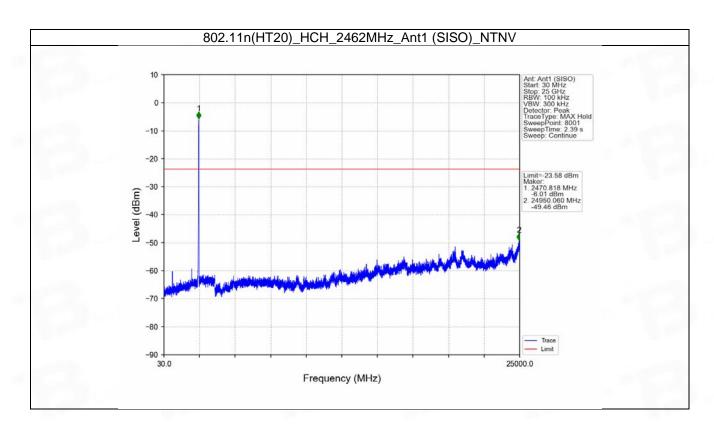


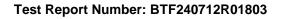












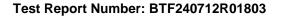


6. Form731

6.1 Test Result

6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.0302	14.80







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-- END OF REPORT --