

Report No.: SUCR250600055005

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TEST REPORT

Application No.: SUCR2506000550WM

Applicant: COOSEA GROUP (HK) COMPANY LIMITED

Address of Applicant: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL

COOSEA GROUP (HK) COMPANY LIMITED Manufacturer:

UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL Address of Manufacturer:

EUT Description: Smart Phone MC8B654B Model No.: FCC ID: 2A28USL005

FCC 47 CFR Part 2. Subpart J Standards:

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2025/06/16

Date of Test: 2025/06/17 to 2025/06/28

Date of Issue: 2025/07/04

Test Result: PASS *

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

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Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sqs.com

Wireless Laboratory

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. South of No. 6 Plant, No. 1, RunSheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

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Version

Revision Record					
Version Description Date Remark					
01	Original	July 4, 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

i rest Summary			T4	
Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 5.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 5.2	PASS
Duty Cycle		ANSI C63.10 2013 Section 11.6	Clause 5.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.1.3	Clause 5.4	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 5.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 5.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 5.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 5.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 5.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 5.10	PASS



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2 General Information

2.1 Details of Client

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL

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:	Tizzy Song, Ives Cheng

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

Hardware Version:	1.0					
Software Version:	SL005TCV10	SL005TCV10002				
IMEI:	35463728000	354637280000903				
Operation Frequency:	802.11b/g/n(H	O2.11b/g/n(HT20): 2412MHz to 2462MHz				
Madulation Tune.	802.11b:	DSSS (DBPSK, DQPSK, CCK)				
Modulation Type:	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64C	(AM)			
Number of Channels:	802.11b/g/n(H	HT20): 11				
Channel Spacing:	5MHz					
	⊠ SISO	802.11b/g/n				
Smart System:	☐ MIMO	802.11b/g/n/ax: 2Tx & 2Rx				
	Diversity	802.11b/g : Tx & Rx				
Antenna Type:	☐ External, [☑ Integrated				
	-1.26dBi (Ant	2)				
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.					
RF Cable*:	1dB					
Noto:			_			

^{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.



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	Operation Frequency of each channel (802.11b/g/n HT20)						
Channel Frequency Channel Frequency Channel Frequency Channel Frequency							Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

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 for 802.11 b/g/n (HT20)
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

2.5 Test Environment and Mode

Environment Parameter	101 kPa Selected Values During Tests				
Relative Humidity	44~46 % RH Ambient				
Value	Temperature(°C)	Voltage(V)			
NTNV	22~23	3.8			
Remark:					

NV: Normal Voltage Normal Temperature

2.6 Description of Support Units

The EUT has been tested as an independent unit.

2.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate	
802.11b	1 Mbps	1	
802.11g	6 Mbps	/	
802.11n (HT 20)	MCS0 (6.5 Mbps)	1	



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3 Equipment List

5 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	2/13/2025	2/12/2026	
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2025	5/7/2026	
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	5/9/2025	5/8/2026	
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	



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9*6*6 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	1/20/2025	1/19/2026		
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		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	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	VULB 9163	SUWI-01-11-01	5/7/2025	5/6/2027		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/7/2025	5/6/2027		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/7/2025	5/6/2027		
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/7/2025	5/6/2027		
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	1/15/2025	1/14/2026		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	1/15/2025	1/14/2026		
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	1/20/2025	1/19/2026		
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-26-01	9/10/2024	9/9/2025		
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/19/2024	11/18/2025		
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-09	9/10/2024	9/9/2025		
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR		
Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR		
Router	PLANET	FSD-803	SUWI-03-14-01	NCR	NCR		
Open Switch and Control Unit	ROHDE&SCHWARZ		SUWI-03-15-01	NCR	NCR		
Multiplier Unit	ROHDE&SCHWARZ	TC-MX60	SUWI-03-16-01	NCR	NCR		
Receive Unit	ROHDE&SCHWARZ	TC-RSE60	SUWI-03-16-02	NCR	NCR		
Receive Unit	ROHDE&SCHWARZ	TC-RSE90	SUWI-03-16-03	NCR	NCR		
Multiplier Unit	ROHDE&SCHWARZ	TC-MX90	SUWI-03-17-01	NCR	NCR		
Receive Unit	ROHDE&SCHWARZ	TC-RSE140	SUWI-03-19-01	NCR	NCR		
Multiplier Unit	ROHDE&SCHWARZ	TC-MX140	SUWI-03-19-02	NCR	NCR		



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Multiplier Unit	ROHDE&SCHWARZ	TC-MX220	SUWI-03-17-02	NCR	NCR
Receive Unit	ROHDE&SCHWARZ	TC-RSE325	SUWI-03-16-04	NCR	NCR
Multiplier Unit	ROHDE&SCHWARZ	TC-MX325	SUWI-03-17-03	NCR	NCR
Signal Generator	ROHDE&SCHWARZ	SMB100A	SUWI-01-08-01	2/1/2024	1/31/2025
Measurement Software	ROHDE&SCHWARZ	ELEKTRA V4.20.1	SUWI-02-09-07	NCR	NCR
Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-02	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			
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-26-01	9/10/2024	9/9/2025			
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	5/8/2025	5/7/2026			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	5/8/2025	5/7/2026			
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/15/2025	1/14/2026			
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/19/2024	11/18/2025			
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-09	9/10/2024	9/9/2025			
Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-02	11/19/2024	11/18/2025			

Remark: NCR=No Calibration Requirement.



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

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%		
5	Duty Cycle	±0.37%		
6	Occupied Bandwidth	1%		
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)		
		± 3.13dB (9k -30MHz)		
	Dedicted Engineer	± 4.88dB (30M -1GHz)		
8	Radiated Emission	± 4.75dB (1GHz to 18GHz)		
		± 4.77dB (Above 18GHz)		

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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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 used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

The antenna is Integrated Antenna and no consideration of replacement.

The best case gain of the antenna is -1.26dBi (Ant2).

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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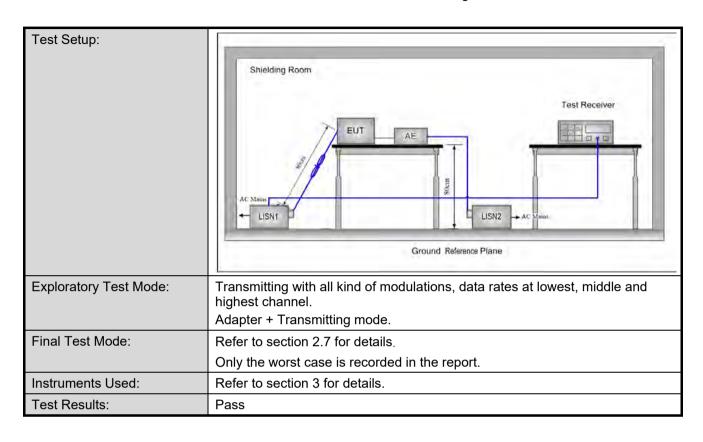
5.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013 Sect	ANSI C63.10: 2013 Section 6.2				
Test Frequency Range:	150kHz to 30MHz					
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz				
Limit:		Limit (d	BuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the log	arithm of the frequency.				
Test Procedure:	room. 2) The EUT was connect Impedance Stabilization impedance. The power of a second LISN 2, which plane in the same way a multiple socket outlet strisingle LISN provided the 3) The tabletop EUT was	s placed upon a non-metallic	ugh a LISN 1 (Line 0Ω/50μΗ + 5Ω linear EUT were connected to ference g measured. A ble power cables to a sceeded. table 0.8m above the			
	single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above ground reference plane. And for floor-standing arrangement, the EUT placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units the EUT and associated equipment was at least 0.8 m from the LISN In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according ANSI C63.10: 2013 on conducted measurement.					



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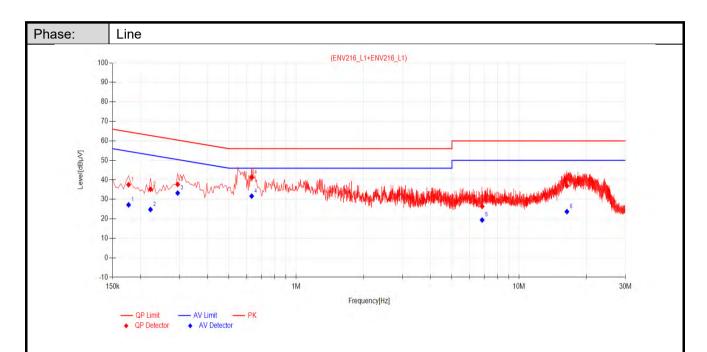
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Measurement Data

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

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



Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV] TrueQP Reading [dBµV]	QP Value [dΒμV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV] TrueAV Reading [dBµV]]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1770	10.08	27.45	37.53	64.63	27.10	17.10	27.18	54.63	27.45	PASS
2	0.2220	10.08	25.10	35.18	62.74	27.56	14.71	24.79	52.74	27.95	PASS
3	0.2940	10.06	27.61	37.67	60.41	22.74	23.17	33.23	50.41	17.18	PASS
4	0.6315	10.06	31.27	41.33	56.00	14.67	21.59	31.65	46.00	14.35	PASS
5	6.8325	9.81	16.59	26.40	60.00	33.60	9.59	19.40	50.00	30.60	PASS
6	16.4040	9.76	27.17	36.93	60.00	23.07	13.94	23.70	50.00	26.30	PASS

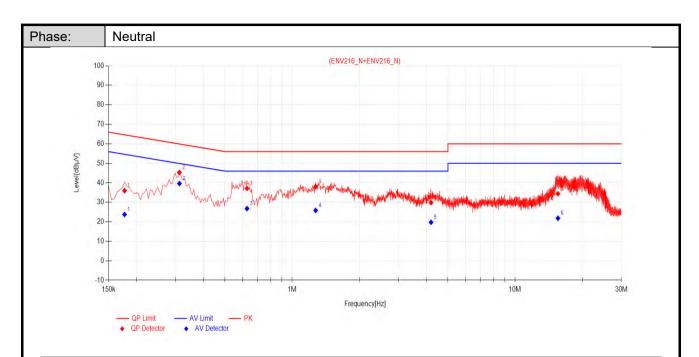
Remark:

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



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Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV] TrueQP Reading[dBμV]	QP Value [dΒμV]	QP Limit [dΒμV]	QP Margin [dB]	AV Reading [dBμV] TrueAV Reading [dBμV]]	ΑV Value [dBμV]	ΑV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1770	10.08	25.89	35.97	64.63	28.66	13.66	23.74	54.63	30.89	PASS
2	0.3120	10.07	35.25	45.32	59.92	14.60	29.57	39.64	49.92	10.28	PASS
3	0.6270	10.06	27.04	37.10	56.00	18.90	16.71	26.77	46.00	19.23	PASS
4	1.2750	9.95	28.12	38.07	56.00	17.93	15.89	25.84	46.00	20.16	PASS
5	4.2000	9.86	19.95	29.81	56.00	26.19	9.90	19.76	46.00	26.24	PASS
6	15.5850	9.73	24.66	34.39	60.00	25.61	12.09	21.82	50.00	28.18	PASS

Remark:

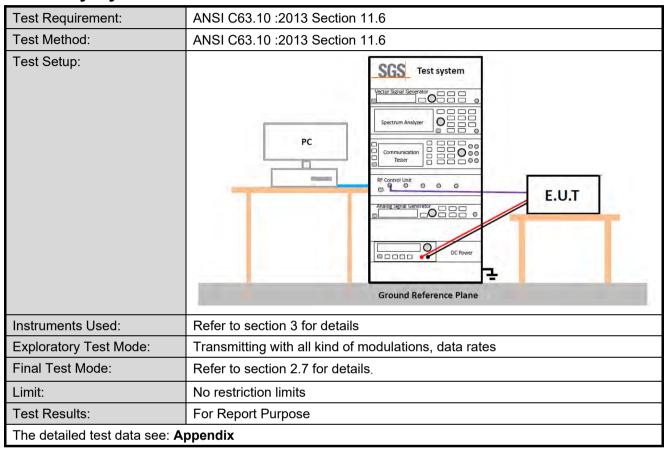
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dB μ V] + Factor(Lisn factor[dB] + cable loss[dB]). 3. Margin = Limit[dB μ V] Value[dB μ V]



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5.3 Duty Cycle

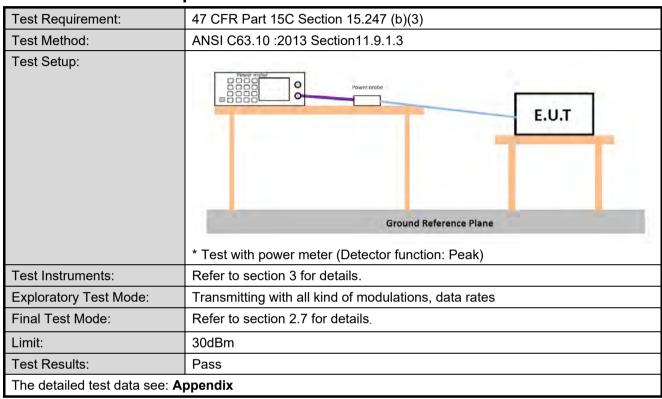




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5.4 Conducted Output Power

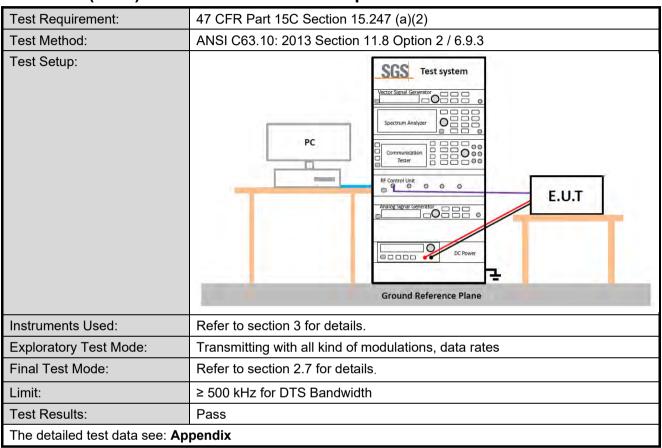




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5.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

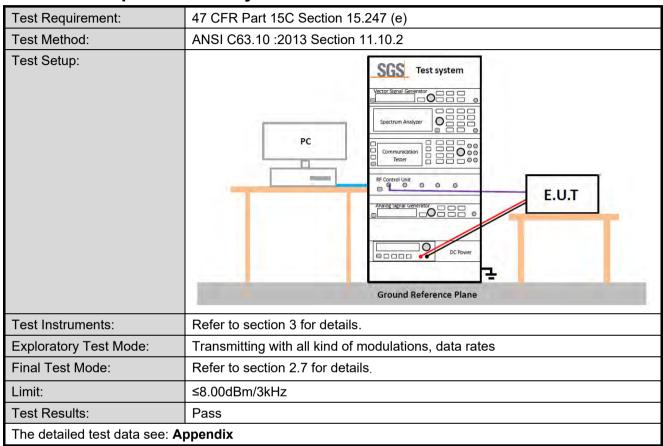




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5.6 Power Spectral Density





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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 11.11		
Test Setup:	SGS Test system Vector Signal Generator Spectrum Analyzer Communication Fector RF Control Unit O DC Power Ground Reference Plane		
Instruments Used:	Refer to section 3 for details.		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Refer to section 2.7 for details.		
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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5.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10: 2013 Section 11.11				
Test Setup:	SGS Test system Vestor Signal Generator Spectrum Analyzer Communication RF Control Unit RF Control Unit DC Power Ground Reference Plane				
Instruments Used:	Refer to section 3 for details.				
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates				
Final Test Mode:	Refer to section 2.7 for details.				
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: A	ppendix				



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5.9 Radiated Spurious Emissions

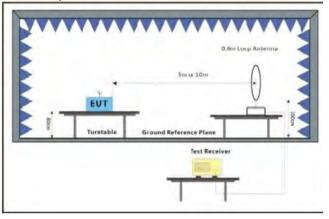
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Section 11.12							
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic Chamber)					
Test Frequency:	9kHz ~ 25GHz							
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak			
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak			
	Peak 1MHz 3MHz							
	Above 1GHz	Peak	1MHz	3MHz	Peak			
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							
	Above 1GHz 500 54.0 Average 3							
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							



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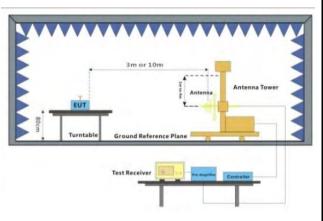


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

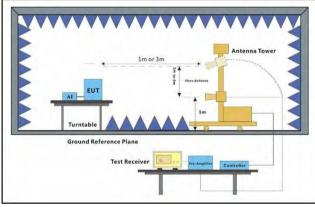


Figure 3. Above 1 GHz

Test Procedure:

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



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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 20d8 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 was the highest point could be found when testing, so only the harmonics was the highest point could be found when testing, so only the harmonics was the highest point could be found when testing, so only the harmonics was the highest point could be found when testing, so only the harmonics were the highest point could be found when testing, so only the harmonics were the highest point could be found when testing, so only the harmonics was the highest point could be found when testing, so only the harmonics were the highest point could be possible point for the highest point could be possible point for the highest point could be possible point for the highest point for the highest point for the highest point for the poi		
Trace mode = max hold Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Quasi-peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ 1 MHz VBW ≥ 1 MHz RBW = 1 MHz Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ 1/T, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Refer to section 2.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.	Test Configuration:	 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 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB. Measurements below 30MHz RBW = 10 kHz VBW = 30 kHz
Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Adapter + Transmitting mode. Final Test Mode: Refer to section 2.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.		 Trace mode = max hold Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz
 Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Adapter + Transmitting mode. Final Test Mode: Refer to section 2.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report. 		Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz
VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Adapter + Transmitting mode. Final Test Mode: Refer to section 2.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.		Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz
Adapter + Transmitting mode. Final Test Mode: Refer to section 2.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.		 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
For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.	Exploratory Test Mode:	1
	Final Test Mode:	For below 1GHz part, through pre-scan all channels, but only the worst case is
	Instruments Used:	
Test Results: Pass	Test Results:	Pass
The detailed test data see: Appendix	The detailed test data see	e: Appendix



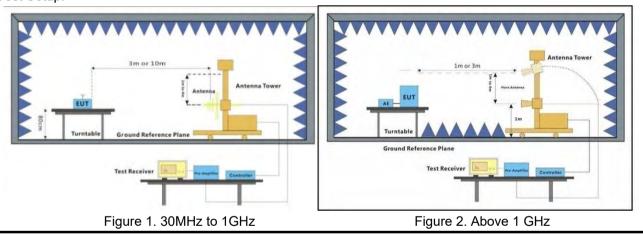
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5.10Restricted bands around fundamental frequency

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 Chaml	per)			
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:





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Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters					
	above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.					
	b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was					
	rotated 360 degrees to determine the position of the highest radiation.					
	c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.					
	d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.					
	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.					
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.					
	g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel					
	h. Test the EUT in the lowest channel , the Highest channel					
	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. 					
	j. Repeat above procedures until all frequencies measured was complete.					
Test Configuration:	Measurements Below 1000MHz					
	• RBW = 120 kHz					
	• VBW = 300 kHz					
	Detector = Quasi-peak Trace mode = max hold					
	Peak Measurements Above 1000 MHz					
	RBW = 1 MHz					
	• VBW ≥ 3 MHz					
	Detector = Peak					
	Sweep time = auto					
	Trace mode = max hold					
	Average Measurements Above 1000MHz					
	• RBW = 1 MHz					
	VBW = 10 Hz, when duty cycle is no less than 98 percent.					
	VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration ever which the transmitter is an and is transmitting at its					
	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 all kind of modulations, data rates.					
	Adapter + Transmitting mode.					
Final Test Mode:	Refer to section 2.7 for details.					
Instruments Used:	Refer to section 3 for details.					
Test Results:	Results: Pass					
The detailed test data see	e: Appendix					



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6 Photographs - Setup Photos

Refer to Appendix A.2 BT&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
	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
802.11b	SISO	2412	8.383	8.420	99.56	0.02	0.04
802.11g	SISO	2412	1.394	1.437	97.01	0.13	0.00
802.11n (HT20)	SISO	2412	1.302	1.345	96.80	0.14	0.00

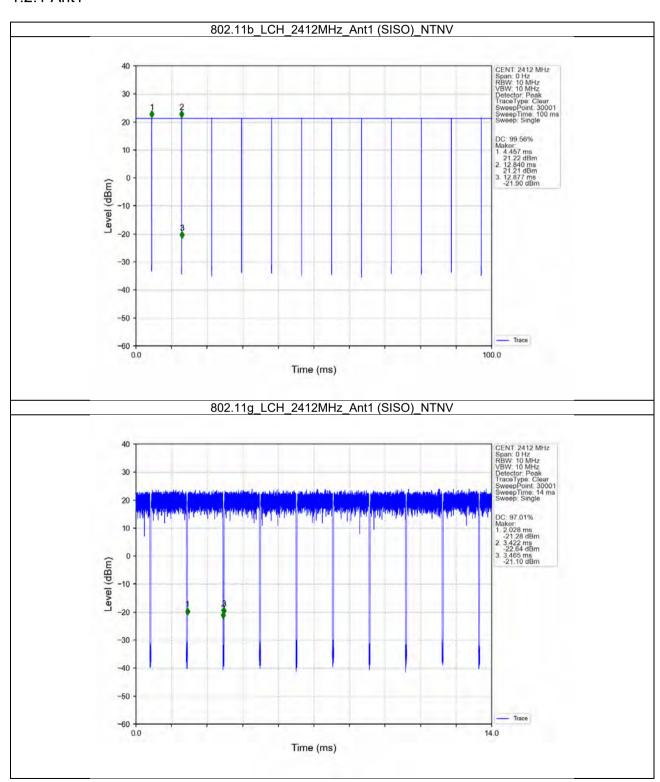


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1.2 Test Graph

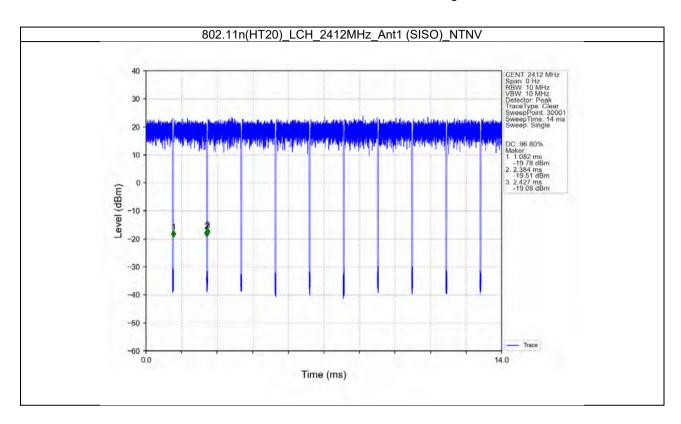
1.2.1 Ant1





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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)		Vardiet
	Туре	(MHz)		Result	Limit	Verdict
802.11b	SISO	2412	1	12.912	/	Pass
		2437	1	13.329	/	Pass
		2462	1	12.979	/	Pass
802.11g	SISO	2412	1	17.680	/	Pass
		2437	1	17.772	/	Pass
		2462	1	17.301	/	Pass
802.11n (HT20)	SISO	2412	1	18.280	/	Pass
		2437	1	18.475	1	Pass
		2462	1	18.130	1	Pass

2.1.2 6dB BW

Mode	TX	Frequency (MHz) ANT	ANIT	6dB Bandv	Vordict	
	Туре		ANI	Result	Limit	Verdict
802.11b	SISO	2412	1	8.069	>=0.5	Pass
		2437	1	8.595	>=0.5	Pass
		2462	1	8.098	>=0.5	Pass
802.11g	SISO	2412	1	15.536	>=0.5	Pass
		2437	1	16.261	>=0.5	Pass
		2462	1	16.042	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	16.351	>=0.5	Pass
		2437	1	17.521	>=0.5	Pass
		2462	1	16.529	>=0.5	Pass

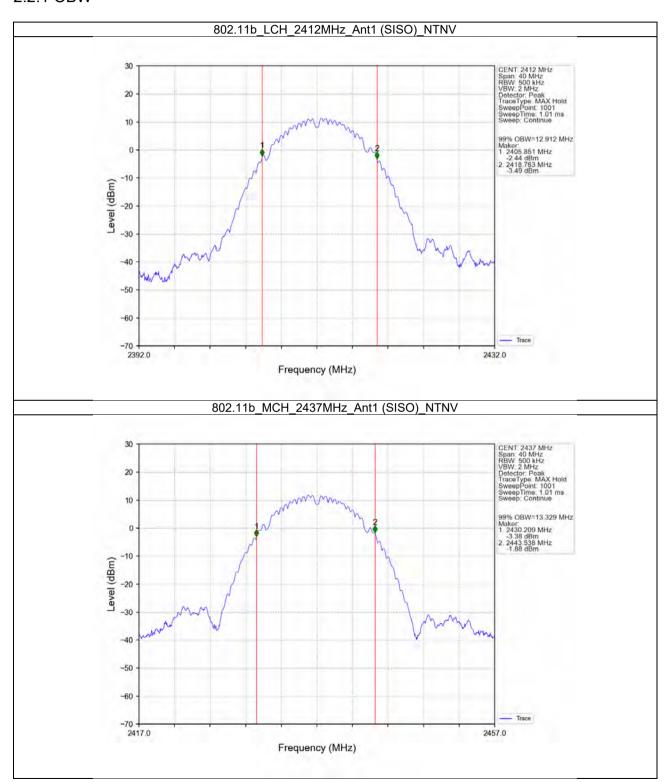


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2.2 Test Graph

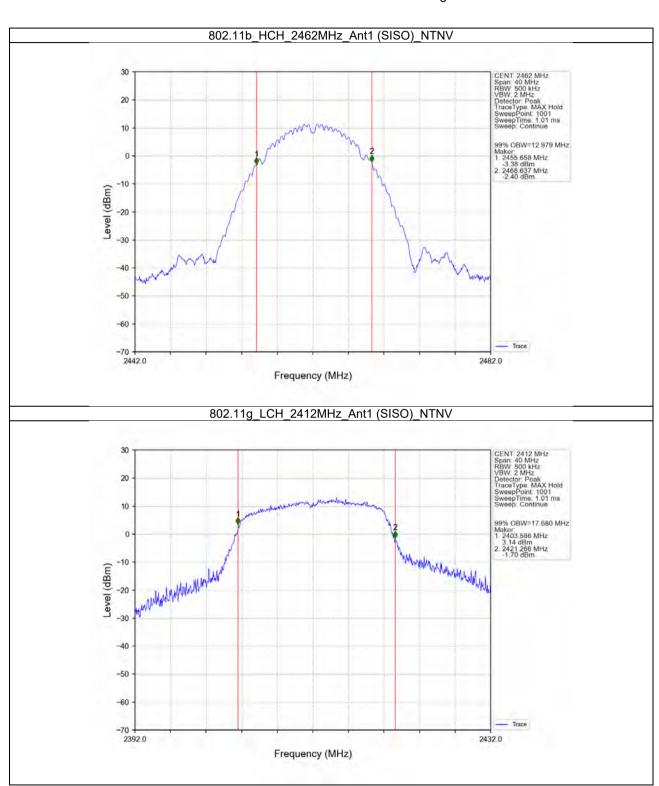
2.2.1 OBW





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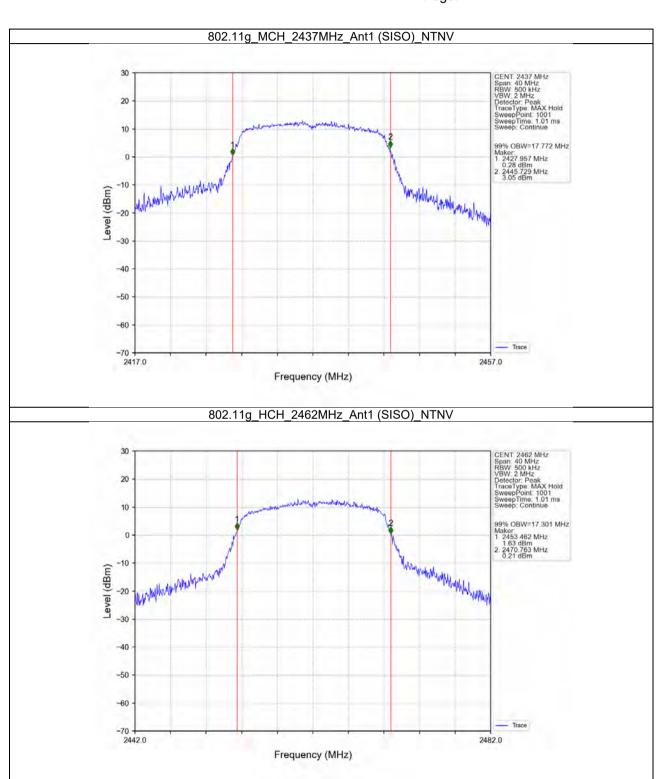
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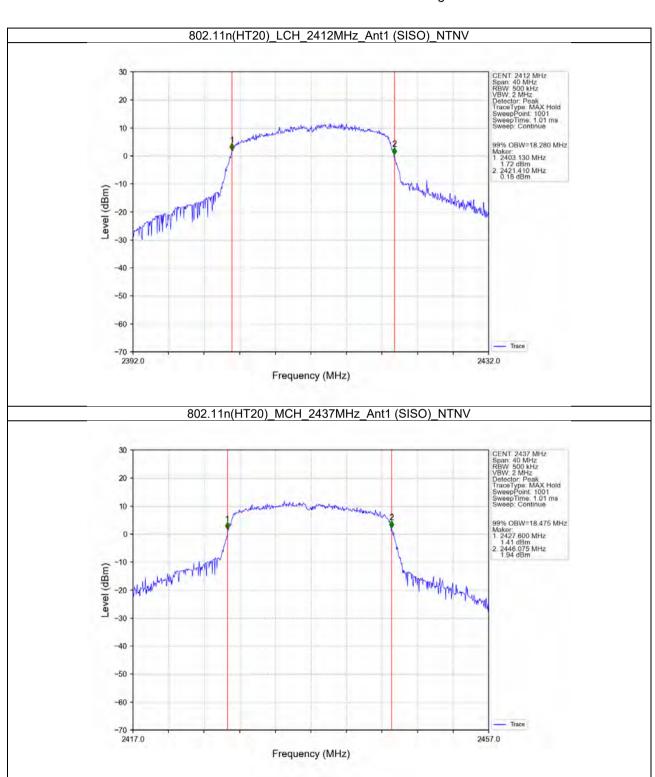
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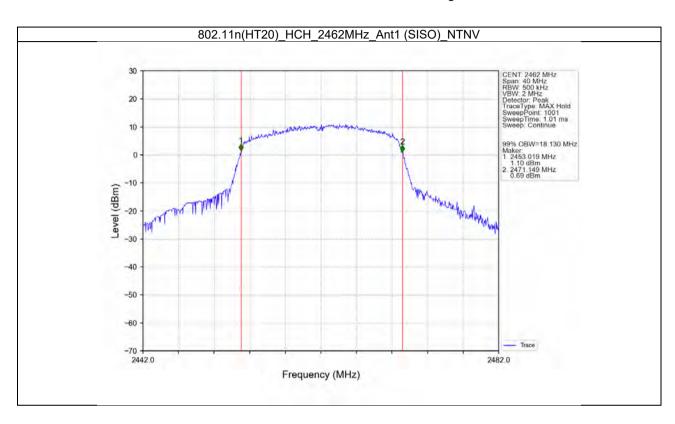
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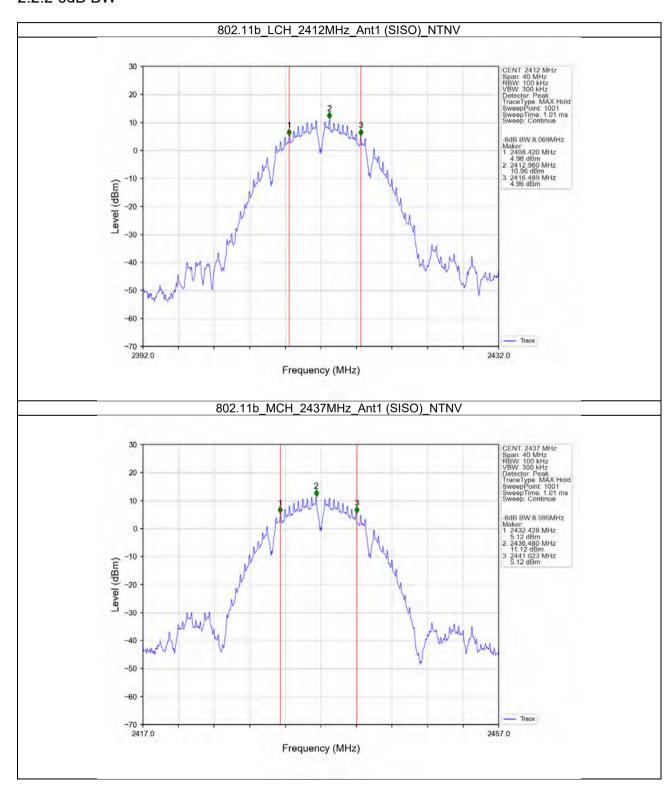




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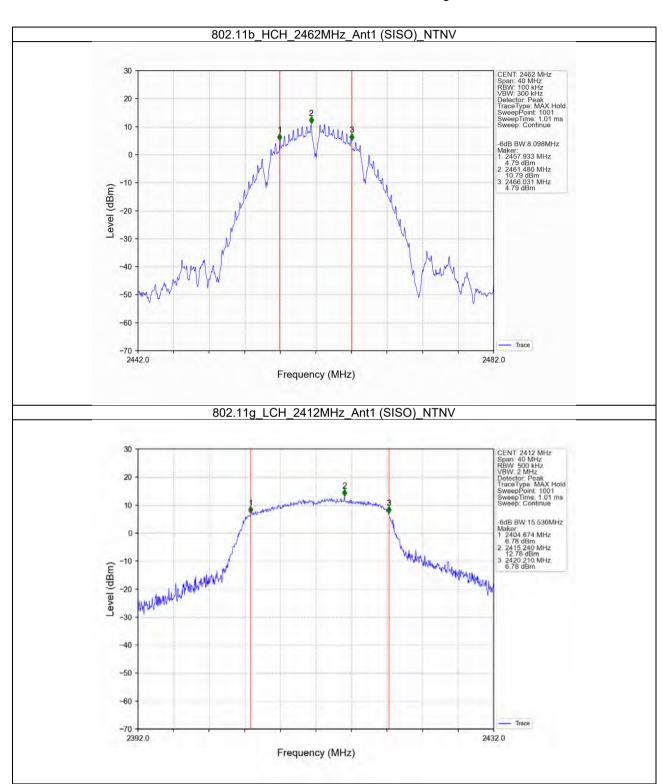
2.2.2 6dB BW





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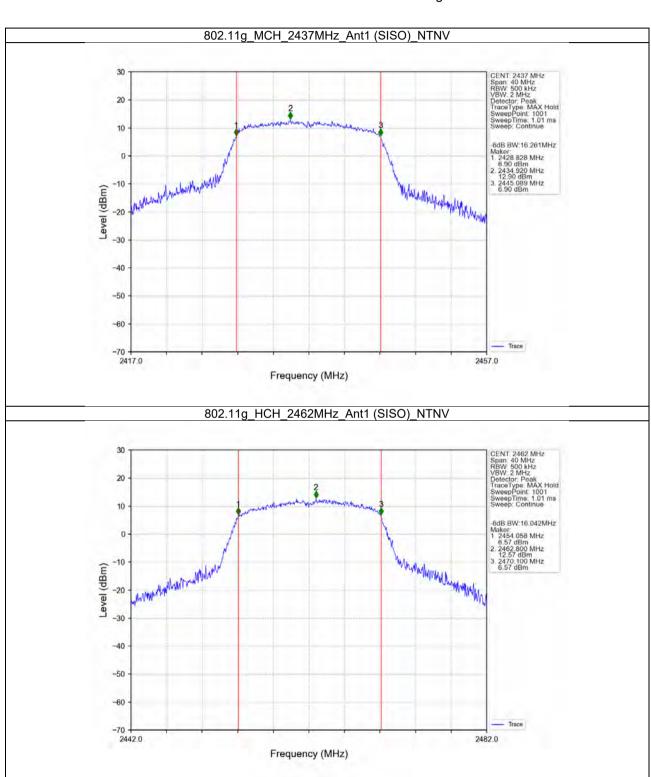
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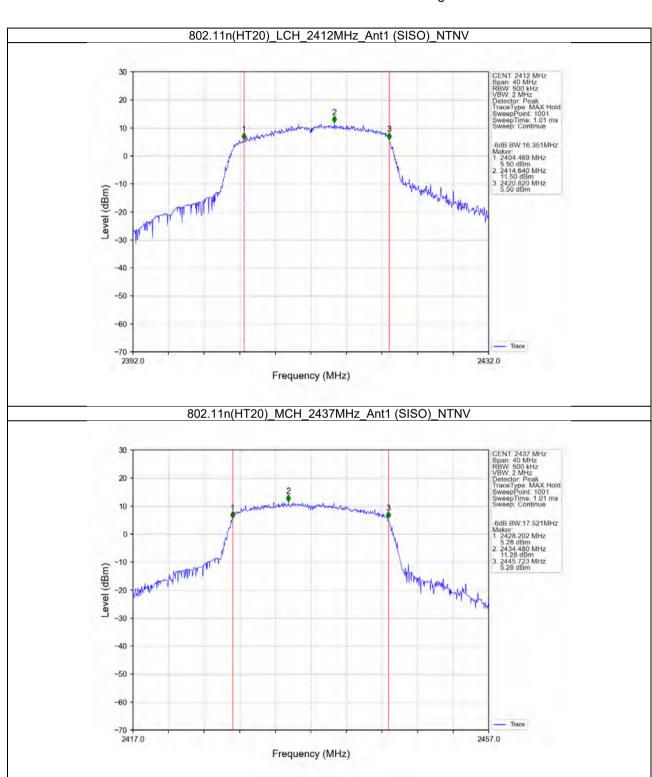
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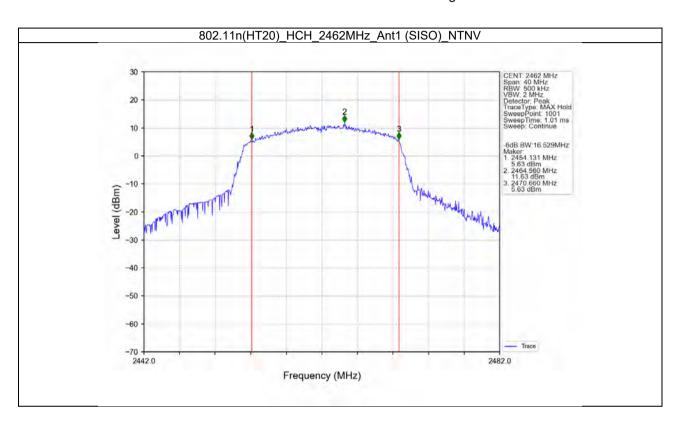
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX	Frequency	Verdict					
Mode	Type	(MHz)	ANT1	Limit	verdict			
		2412	18.40	<=30	Pass			
802.11b	SISO	2437	18.99	<=30	Pass			
		2462	18.40	<=30	Pass			
		2412	17.39	<=30	Pass			
802.11g	SISO	2437	18.02	<=30	Pass			
		2462	17.41	<=30	Pass			
802.11n		2412	16.39	<=30	Pass			
	SISO	2437	16.79	<=30	Pass			
(HT20)		2462	16.16	<=30	Pass			
Note1: Antenna Gain: Ant1: -1.26dBi;								

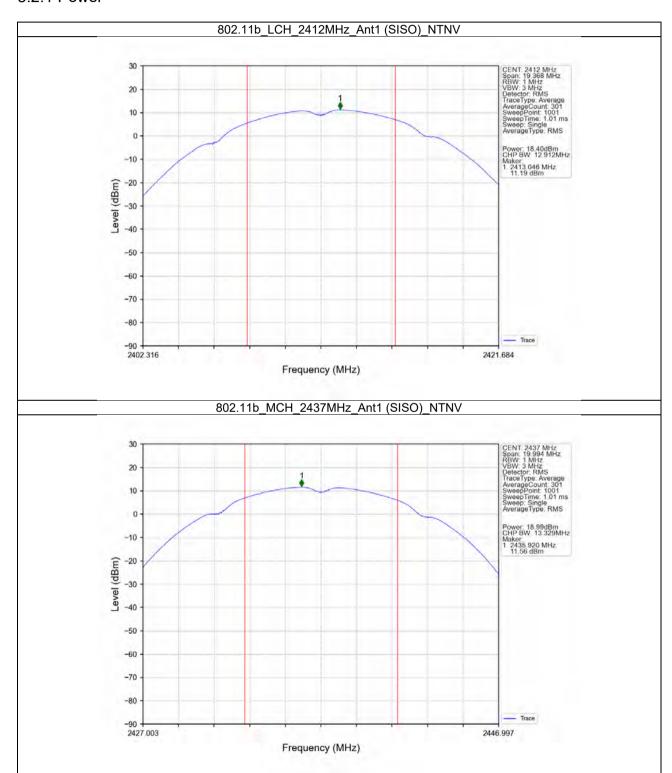


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3.2 Test Graph

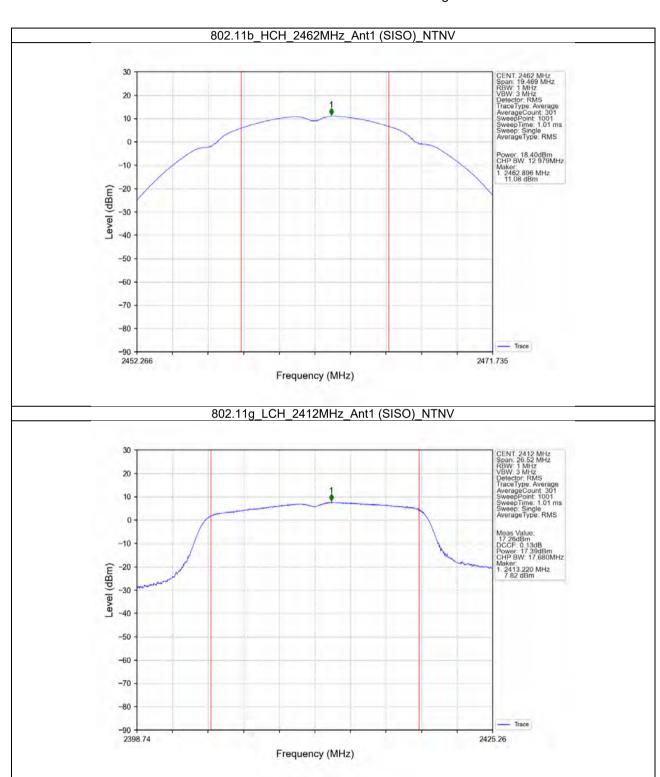
3.2.1 Power





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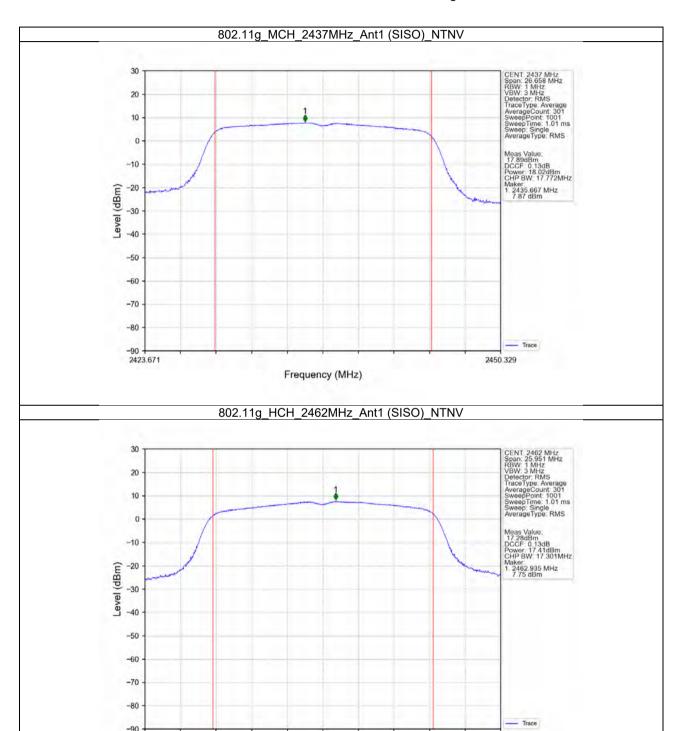
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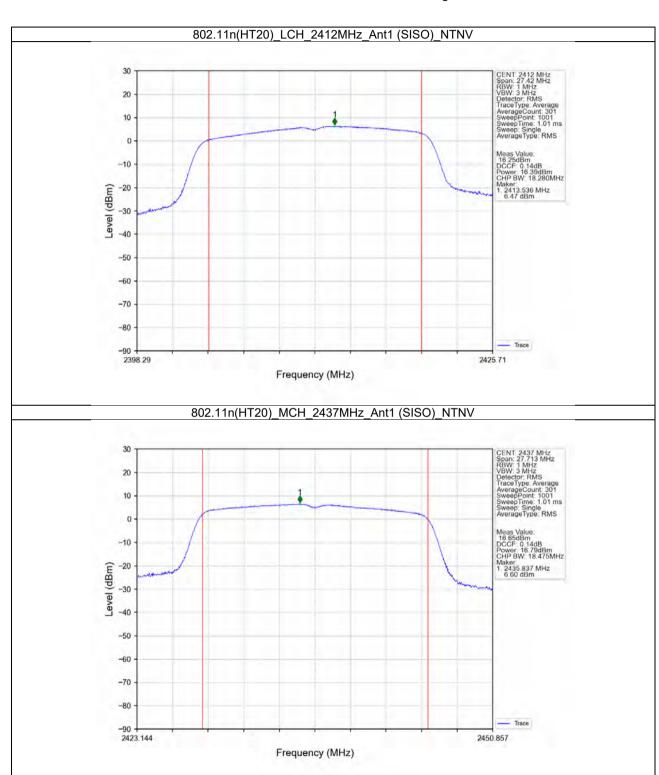


Frequency (MHz)



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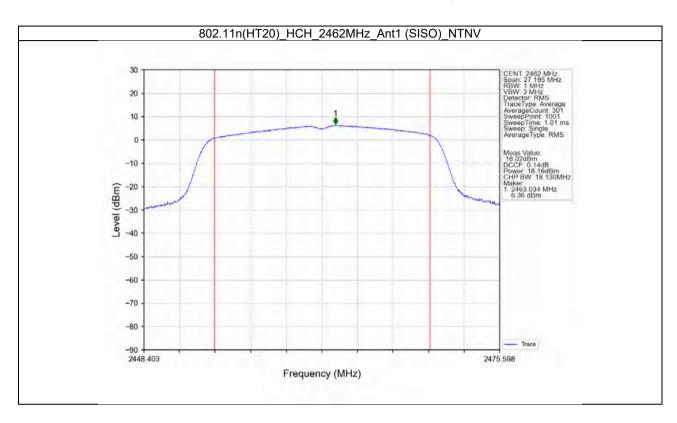
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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mada	TX	Frequency	Maximum PS	Vardiet	
Mode	Туре	(MHz)	ANT1	Limit	Verdict
		2412	-2.82	<=8	Pass
802.11b	SISO	2437	-3.27	<=8	Pass
		2462	-3.34	<=8	Pass
	SISO	2412	-6.91	<=8	Pass
802.11g		2437	-6.53	<=8	Pass
		2462	-6.73	<=8	Pass
000 11n		2412	-8.34	<=8	Pass
802.11n (HT20)	SISO	2437	-8.02	<=8	Pass
		2462	-8.08	<=8	Pass
Note1: Antenna C	Gain: Ant1: -1.26d	Bi;			

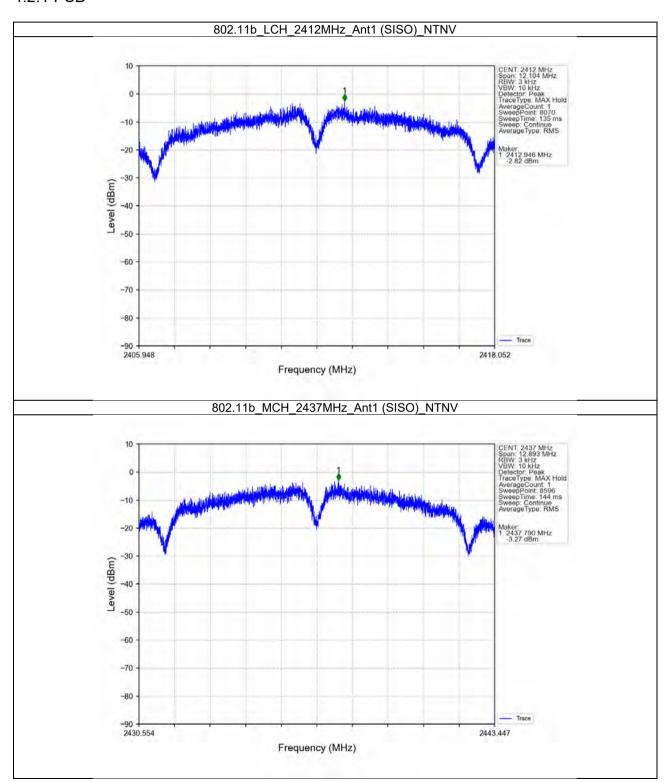


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4.2 Test Graph

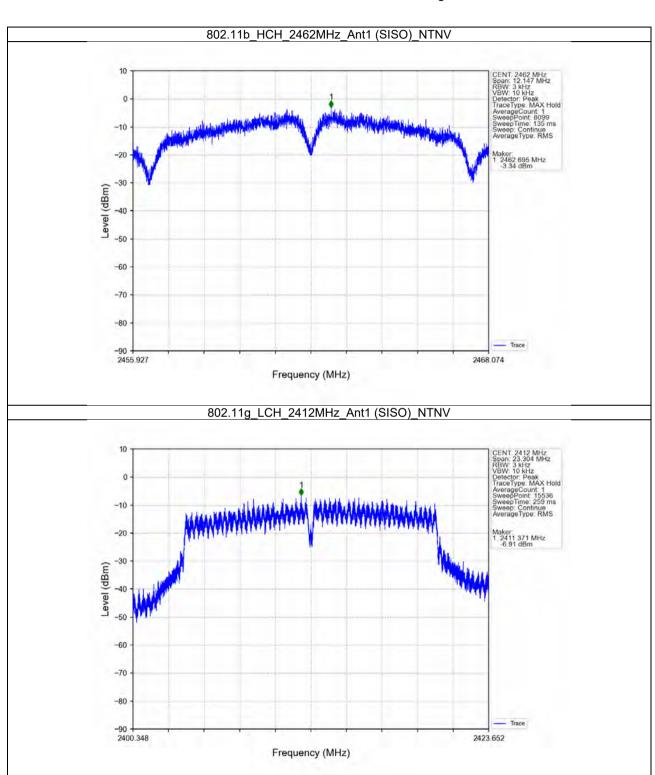
4.2.1 PSD





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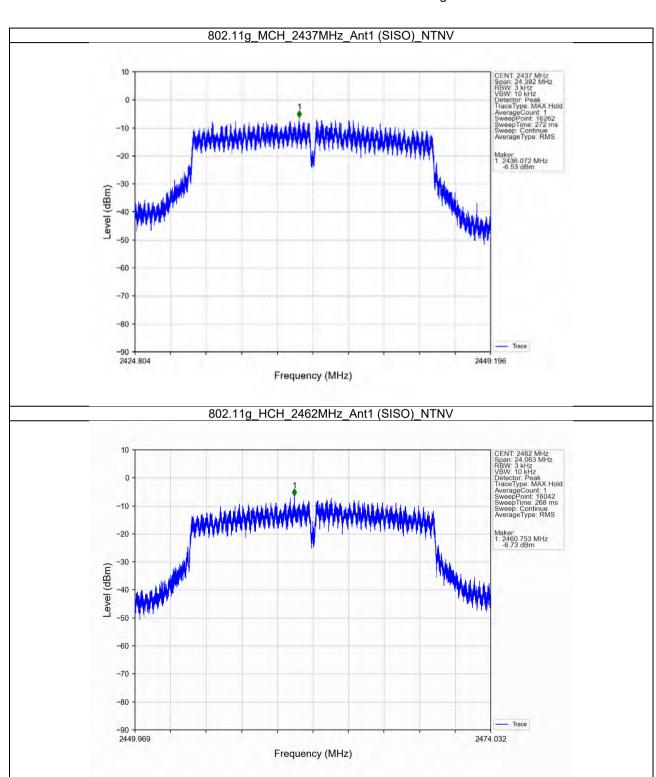
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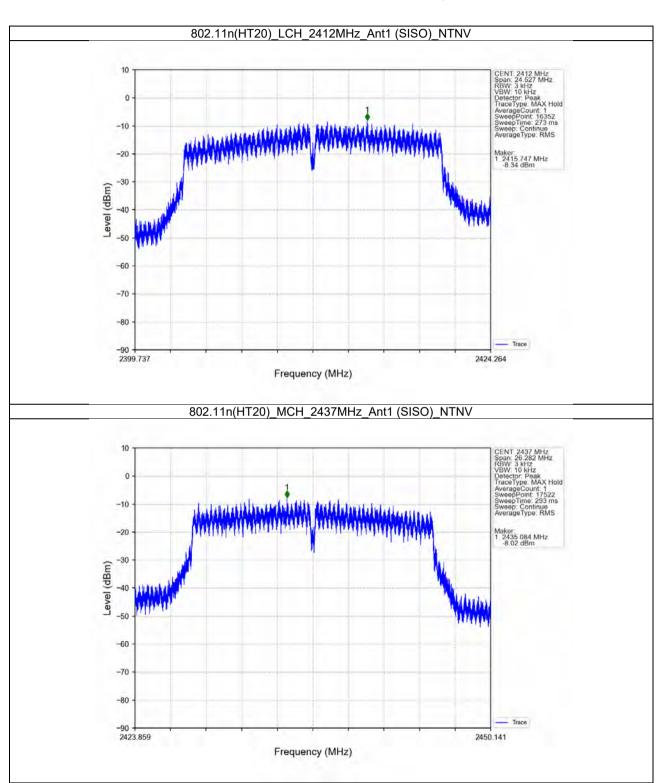
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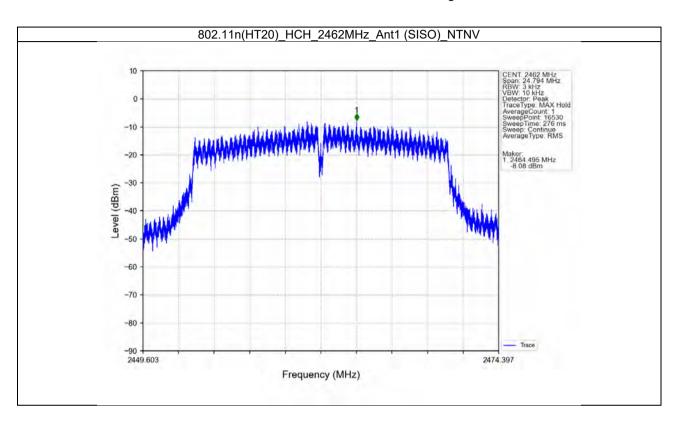
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2412	1	10.99
802.11b	SISO	2437	1	11.38
		2462	1	11.10
	SISO	2412	1	7.82
802.11g		2437	1	7.98
		2462	1	7.63
000 11n		2412	1	6.97
802.11n	SISO	2437	1	6.65
(HT20)		2462	1	6.62

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	2412 1		-18.62	Pass
802.11b	SISO	2437 1		11.38	-18.62	Pass
		2462	1	11.38	-18.62	Pass
	SISO	2412	1	7.98	-22.02	Pass
802.11g		2437	1	7.98	-22.02	Pass
		2462	1	7.98	-22.02	Pass
902 11n		2412	1	6.97	-23.03	Pass
802.11n	SISO	2437	1	6.97	-23.03	Pass
(HT20)		2462	1	6.97	-23.03	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.

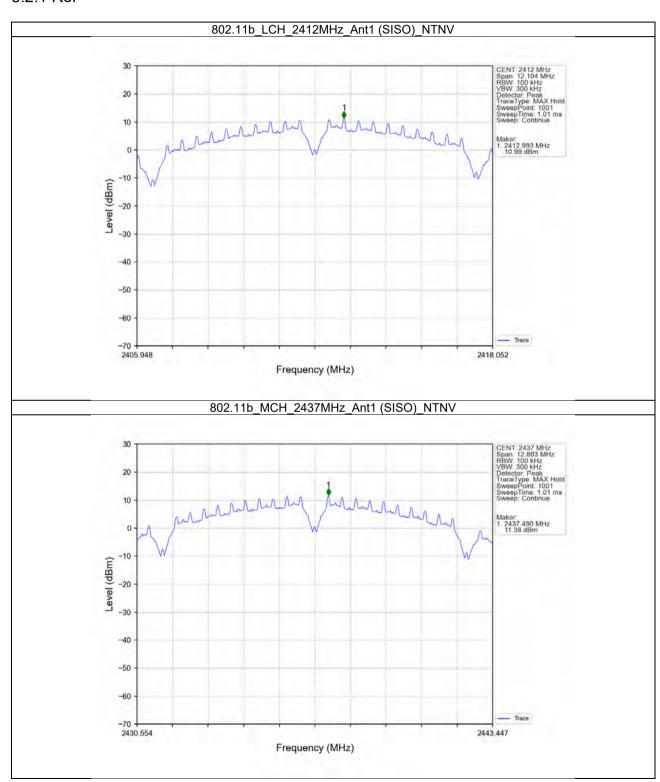


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5.2 Test Graph

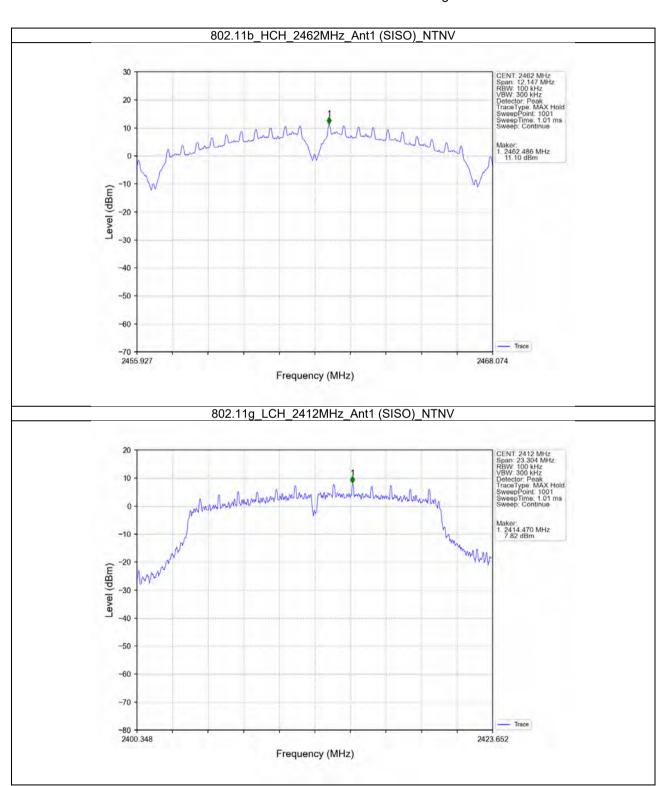
5.2.1 Ref





Report No.: SUCR250600055005

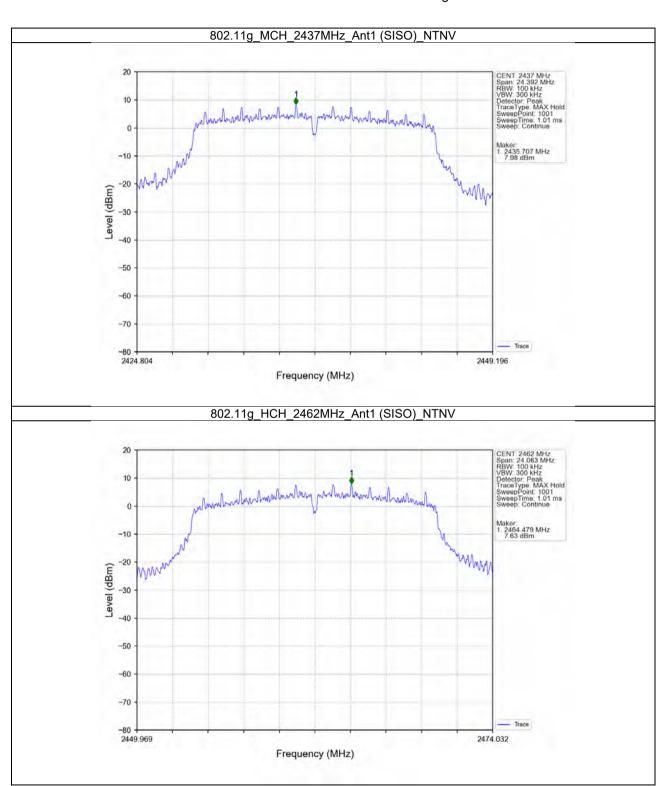
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Report No.: SUCR250600055005

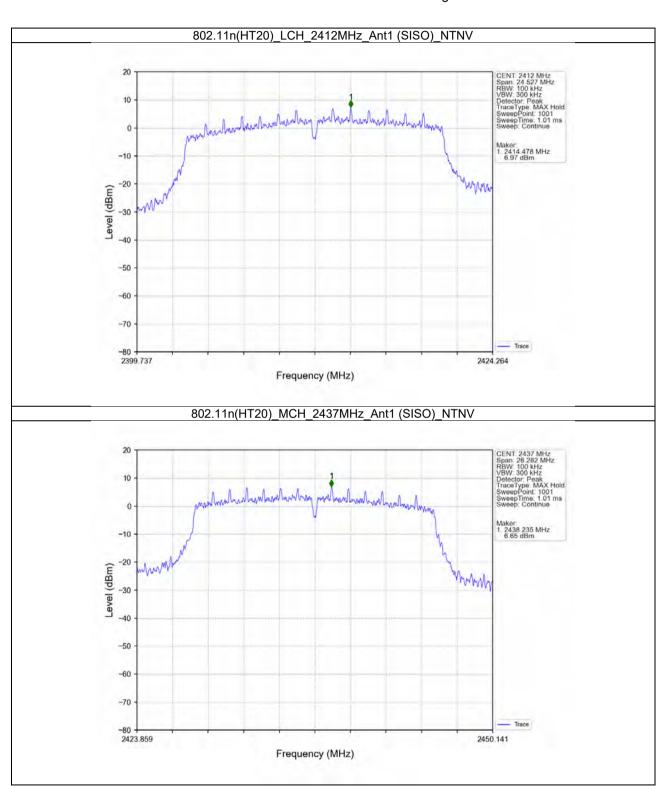
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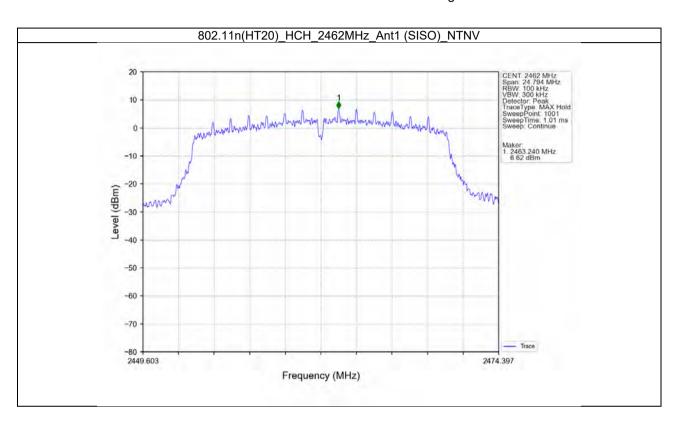
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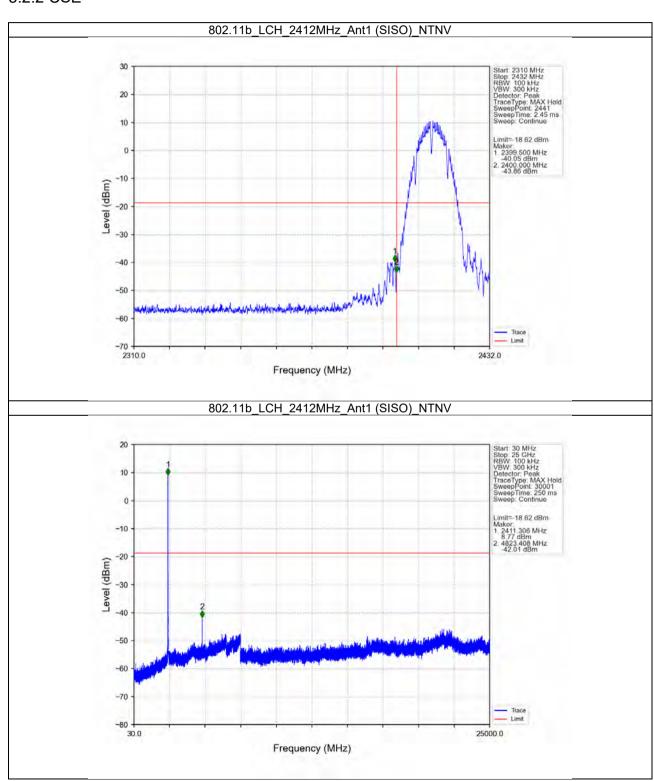




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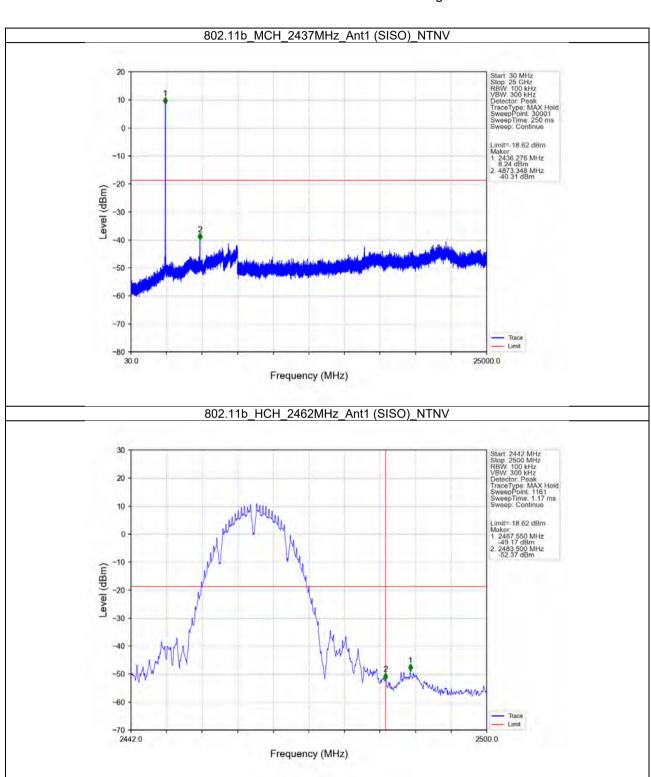
5.2.2 CSE





Report No.: SUCR250600055005

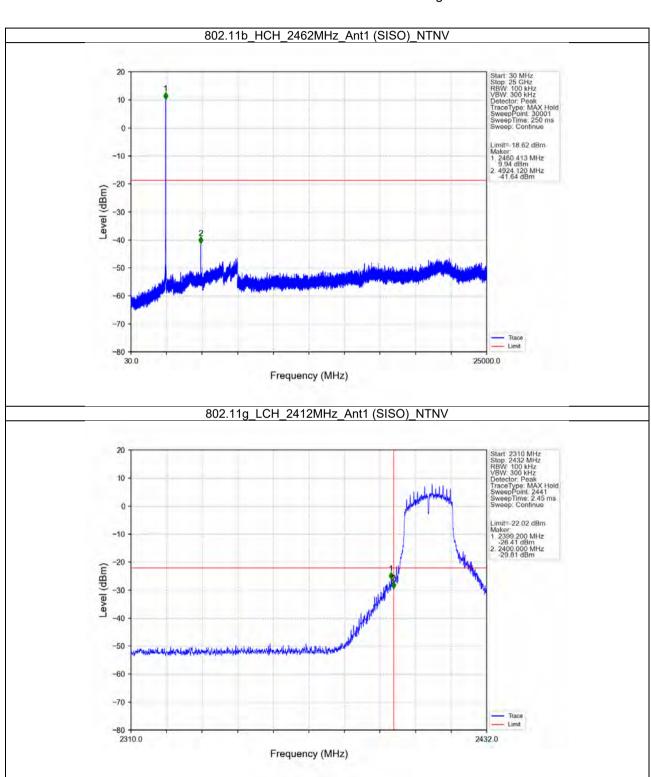
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Report No.: SUCR250600055005

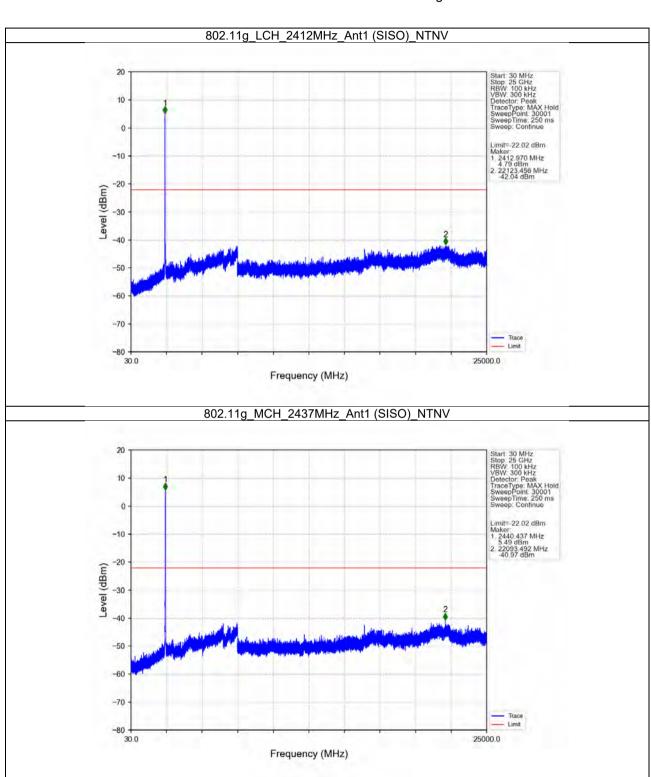
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Report No.: SUCR250600055005

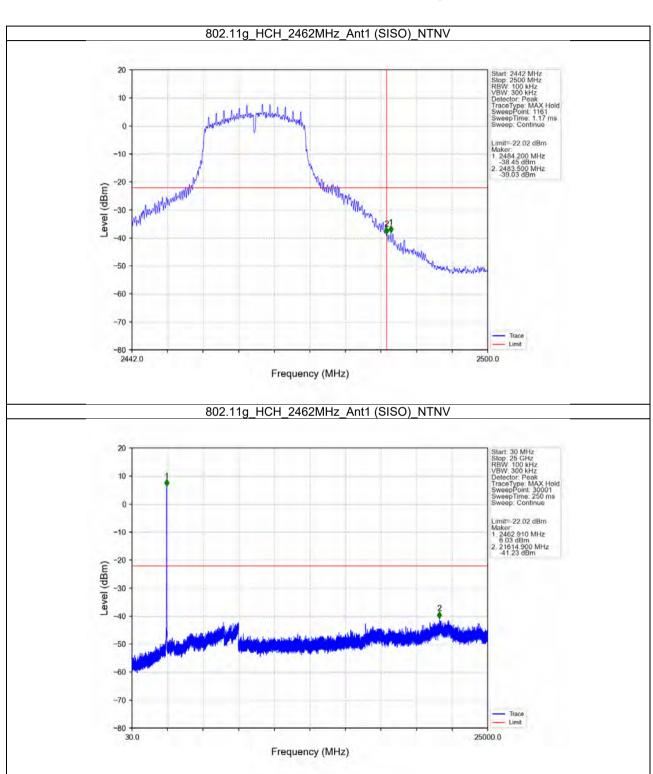
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Report No.: SUCR250600055005

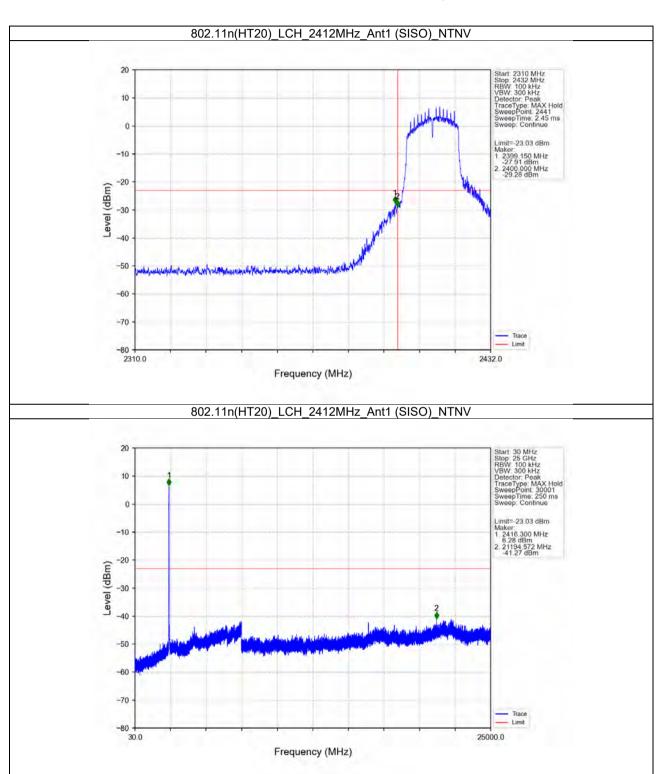
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Report No.: SUCR250600055005

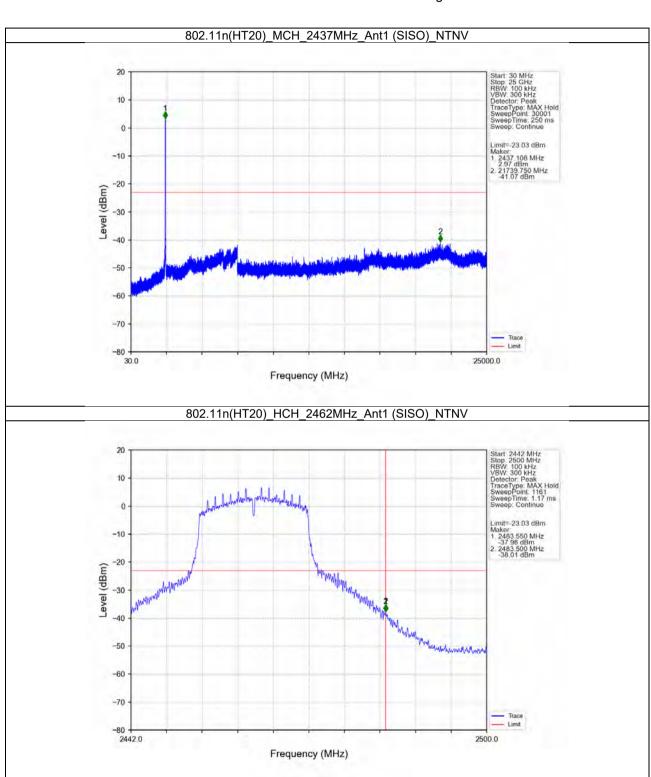
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Report No.: SUCR250600055005

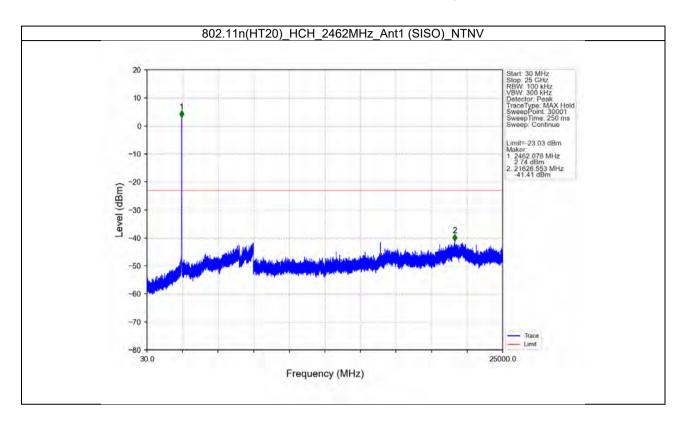
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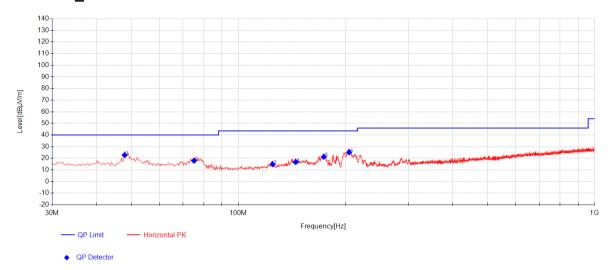




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Radiated Spurious Emissions Radiated emission below 1GHz Worst case Mode: 802.11n20_Channel 01

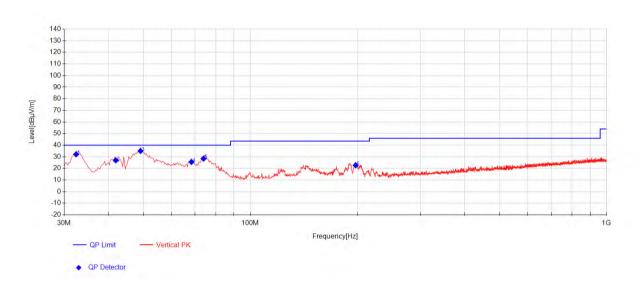


Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.945	38.10	18.81	-34.18	22.73	40.00	17.27	221	19	Horizontal
2	75.105	36.33	15.47	-33.97	17.83	40.00	22.17	185	166	Horizontal
3	124.8175	30.99	17.50	-33.68	14.81	43.50	28.69	164	360	Horizontal
4	144.945	31.79	18.51	-33.56	16.74	43.50	26.76	237	96	Horizontal
5	173.8025	36.37	18.22	-33.37	21.22	43.50	22.28	184	253	Horizontal
6	204.6	42.97	15.22	-33.15	25.04	43.50	18.46	209	253	Horizontal



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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.425	48.17	18.10	-34.18	32.09	40.00	7.91	263	168	Vertical
2	41.8825	42.38	18.71	-34.18	26.91	40.00	13.09	189	231	Vertical
3	49.1575	50.45	18.77	-34.18	35.04	40.00	4.96	254	0	Vertical
4	68.315	42.81	16.74	-34.02	25.52	40.00	14.48	194	231	Vertical
5	73.8925	46.58	15.81	-33.98	28.41	40.00	11.59	208	255	Vertical
6	197.5675	40.65	15.26	-33.22	22.68	43.50	20.82	211	341	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($dB\mu V/m$)

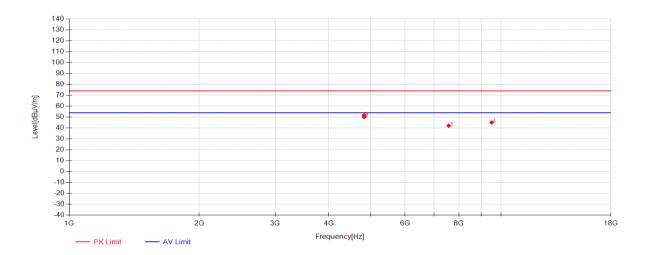
2) All channels have been tested, but only the worst case data displayed in this report.



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Transmitter emission Above 1GHz 802.11b_Channel 01



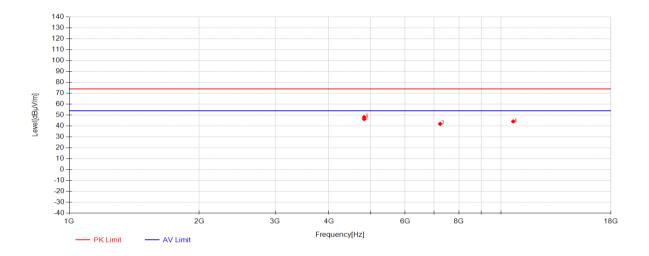
Data List									
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	4824	66.15	31.12	-45.54	51.73	74.00	22.27	Horizontal	
2	4824.75	64.48	31.12	-45.54	50.06	54.00	3.94	Horizontal	
3	7572.75	48.57	36.50	-42.99	42.08	74.00	31.92	Horizontal	
4	9522	47.56	37.54	-40.11	45.00	74.00	29.00	Horizontal	



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802.11b_Channel 01

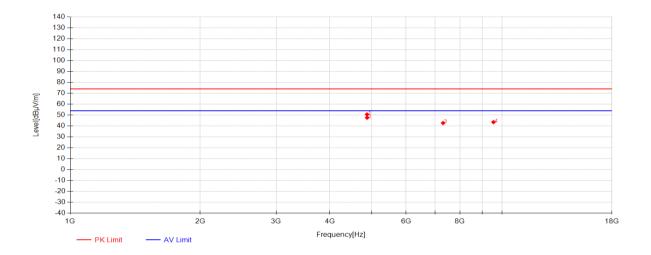


Data List										
NO.	Frequency [MHz]	Reading [dΒμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4824	62.57	31.12	-45.54	48.15	74.00	25.85	Vertical		
2	4824.75	60.74	31.12	-45.54	46.32	54.00	7.68	Vertical		
3	7236.75	49.82	35.66	-43.54	41.94	74.00	32.06	Vertical		
4	10686	43.55	38.57	-37.96	44.16	74.00	29.84	Vertical		



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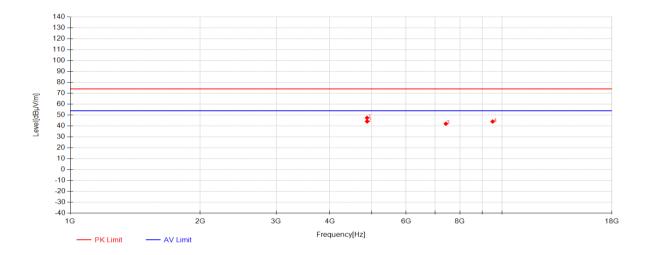


Data	Data List										
NO.	Frequency [MHz]	Reading [dΒμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4874.25	64.92	31.20	-45.53	50.59	74.00	23.41	Horizontal			
2	4875	61.94	31.20	-45.53	47.61	54.00	6.39	Horizontal			
3	7311	50.58	35.87	-43.71	42.74	74.00	31.26	Horizontal			
4	9566.25	45.78	37.63	-39.86	43.55	74.00	30.45	Horizontal			



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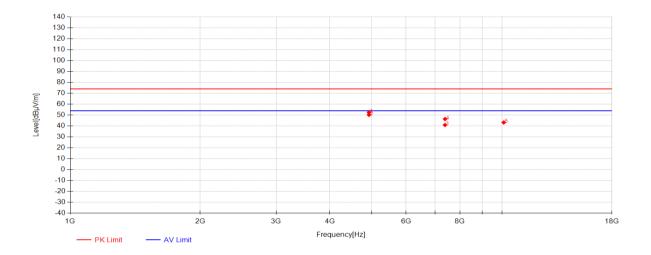


Data	Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4874.25	61.79	31.20	-45.53	47.46	74.00	26.54	Vertical			
2	4875	58.53	31.20	-45.53	44.20	54.00	9.80	Vertical			
3	7421.25	49.25	36.18	-43.35	42.08	74.00	31.92	Vertical			
4	9521.25	46.68	37.54	-40.11	44.11	74.00	29.89	Vertical			



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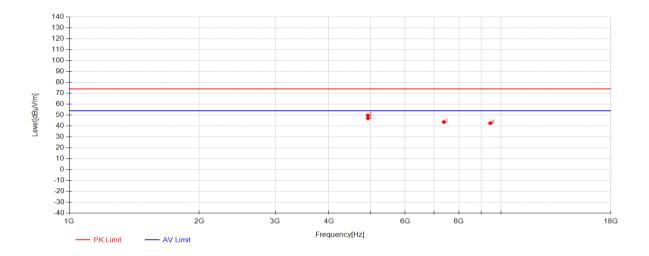


Data	Data List										
NO.	Frequency [MHz]	Reading [dΒμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4923.75	66.79	31.28	-45.56	52.51	74.00	21.49	Horizontal			
2	4924.5	64.49	31.28	-45.56	50.21	54.00	3.79	Horizontal			
3	7386	48.30	36.08	-43.46	40.92	54.00	13.08	Horizontal			
4	7387.5	53.76	36.09	-43.45	46.39	74.00	27.61	Horizontal			
5	10102.5	43.85	38.51	-39.13	43.23	74.00	30.77	Horizontal			



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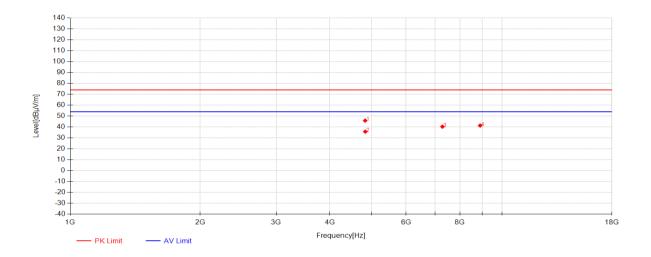


Data	Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4923.75	63.99	31.28	-45.56	49.71	74.00	24.29	Vertical			
2	4924.5	61.32	31.28	-45.56	47.04	54.00	6.96	Vertical			
3	7384.5	51.04	36.08	-43.46	43.65	74.00	30.35	Vertical			
4	9456.75	45.28	37.41	-40.06	42.64	74.00	31.36	Vertical			



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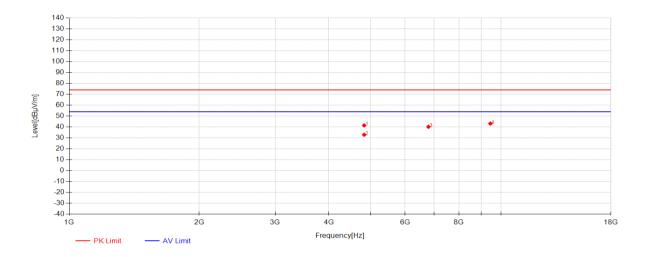


Data	Data List										
NO.	Frequency [MHz]	Reading [dΒμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4824.75	60.28	31.12	-45.54	45.86	74.00	28.14	Horizontal			
2	4827.75	50.16	31.12	-45.54	35.75	54.00	18.25	Horizontal			
3	7286.25	48.23	35.80	-43.70	40.33	74.00	33.67	Horizontal			
4	8908.5	46.00	36.55	-41.22	41.34	74.00	32.66	Horizontal			



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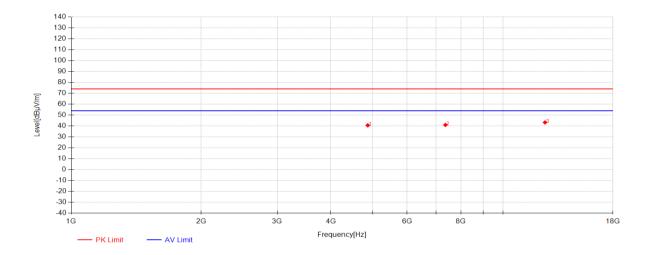


Data	Data List										
NO.	Frequency [MHz]	Reading [dΒμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4824.75	55.89	31.12	-45.54	41.47	74.00	32.53	Vertical			
2	4825.5	47.30	31.12	-45.54	32.88	54.00	21.12	Vertical			
3	6798.75	49.72	34.64	-44.17	40.19	74.00	33.81	Vertical			
4	9458.25	45.79	37.42	-40.06	43.14	74.00	30.86	Vertical			



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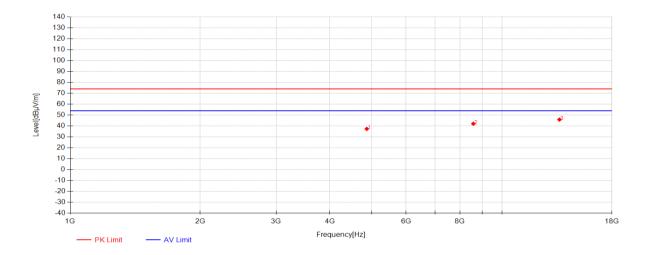


Data	Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4866.75	54.97	31.19	-45.53	40.62	74.00	33.38	Horizontal			
2	7363.5	48.51	36.02	-43.53	40.99	74.00	33.01	Horizontal			
3	12527.25	41.17	39.26	-37.13	43.30	74.00	30.70	Horizontal			



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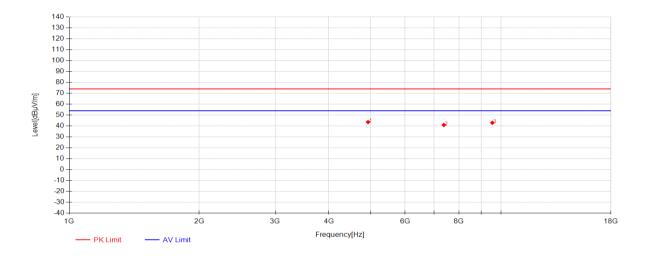


Data	Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4867.5	51.70	31.19	-45.53	37.35	74.00	36.65	Vertical			
2	8591.25	46.68	36.75	-41.36	42.07	74.00	31.93	Vertical			
3	13599.75	41.72	40.24	-36.08	45.88	74.00	28.12	Vertical			



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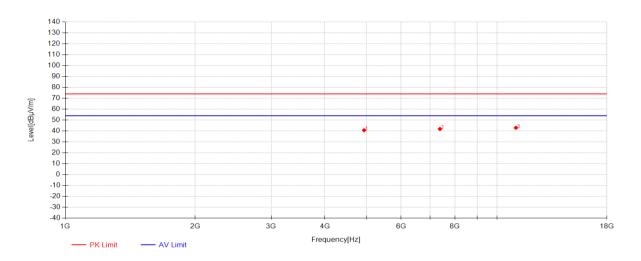
Data	Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4926.75	57.90	31.28	-45.56	43.62	74.00	30.38	Horizontal			
2	7380	48.32	36.06	-43.48	40.91	74.00	33.09	Horizontal			
3	9558.75	45.24	37.62	-39.90	42.96	74.00	31.04	Horizontal			



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802.11n20_Channel 11



Data	Data List										
NO.	Frequency [MHz]	Reading [dВµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4927.5	54.98	31.28	-45.56	40.70	74.00	33.30	Vertical			
2	7385.25	49.27	36.08	-43.46	41.89	74.00	32.11	Vertical			
3	11076	42.26	38.64	-37.94	42.96	74.00	31.04	Vertical			

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

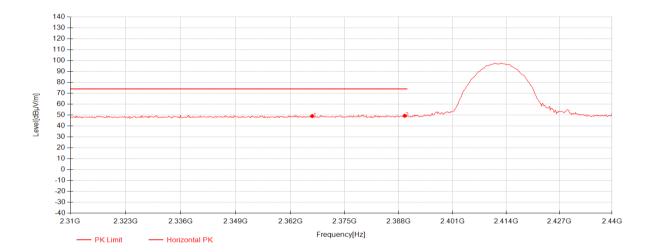
- 2) All channels have been tested, but only the worst case data displayed in this report.
- 3) Both peak and average measured complies with the limit line, so test result is "PASS"



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Restricted bands around fundamental frequency 802.11b_Channel 01

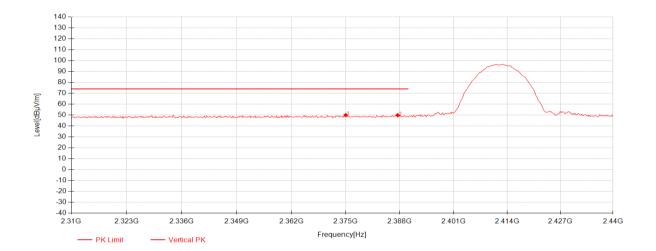


Data	Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2367.2	45.80	26.93	-23.57	49.16	74.00	24.84	Horizontal			
2	2389.43	46.03	26.98	-23.57	49.44	74.00	24.56	Horizontal			



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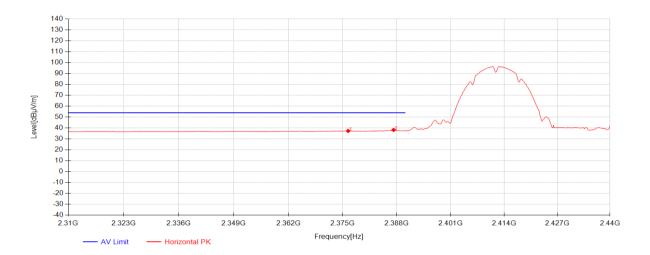


Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2375	46.58	26.95	-23.57	49.96	74.00	24.04	Vertical			
2	2387.48	46.52	26.97	-23.57	49.92	74.00	24.08	Vertical			



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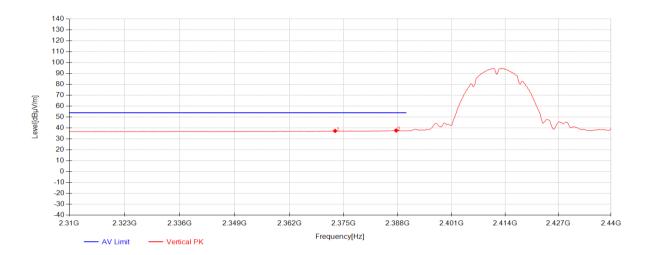


Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2376.3	33.91	26.95	-23.57	37.29	54.00	16.71	Horizontal			
2	2387.22	34.83	26.97	-23.57	38.23	54.00	15.77	Horizontal			



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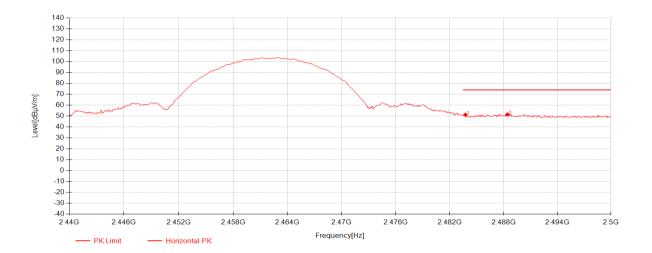


Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2372.92	33.94	26.95	-23.57	37.31	54.00	16.69	Vertical			
2	2387.61	34.30	26.98	-23.57	37.70	54.00	16.30	Vertical			



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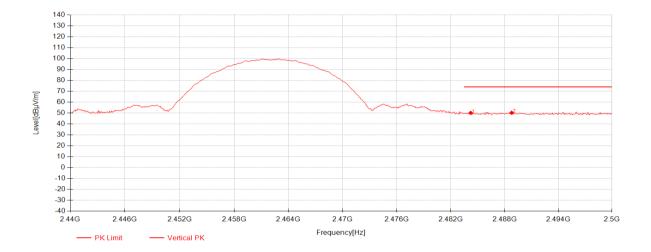


Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2483.74	47.59	27.17	-23.54	51.21	74.00	22.79	Horizontal			
2	2488.42	47.85	27.18	-23.54	51.48	74.00	22.52	Horizontal			



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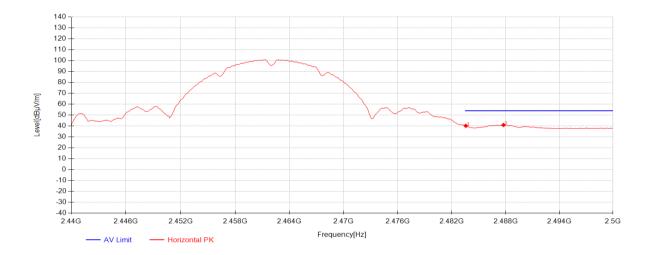


Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2484.22	46.57	27.17	-23.54	50.19	74.00	23.81	Vertical			
2	2488.78	46.72	27.18	-23.54	50.35	74.00	23.65	Vertical			



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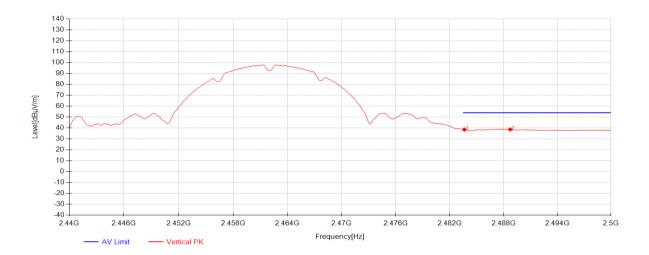


Data	Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2483.56	36.54	27.17	-23.54	40.16	54.00	13.84	Horizontal			
2	2487.76	37.29	27.18	-23.54	40.92	54.00	13.08	Horizontal			



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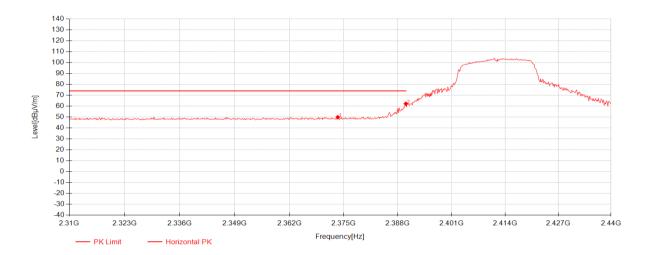


Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2483.62	34.93	27.17	-23.54	38.55	54.00	15.45	Vertical			
2	2488.72	35.02	27.18	-23.54	38.65	54.00	15.35	Vertical			



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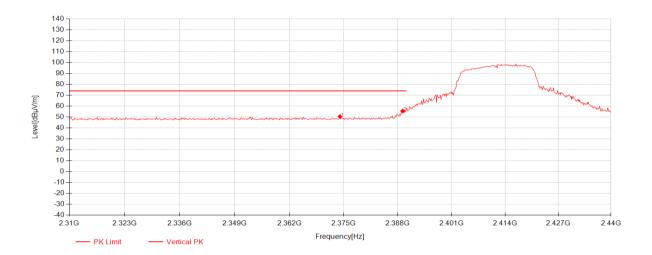


Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2373.57	46.62	26.95	-23.57	49.99	74.00	24.01	Horizontal			
2	2389.95	58.93	26.98	-23.57	62.34	74.00	11.66	Horizontal			



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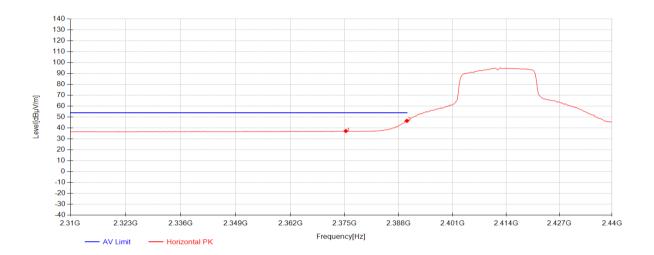


Data	Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2374.09	47.19	26.95	-23.57	50.57	74.00	23.43	Vertical			
2	2389.17	52.32	26.98	-23.57	55.73	74.00	18.27	Vertical			



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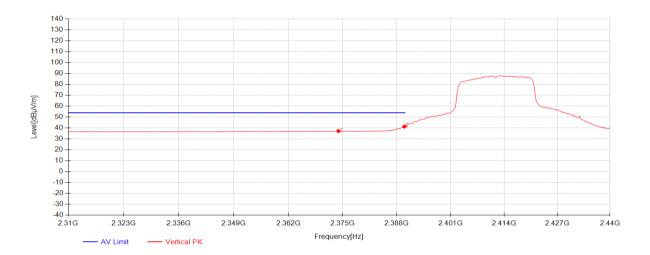


Data	Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2375.26	33.83	26.95	-23.57	37.21	54.00	16.79	Horizontal			
2	2389.95	43.14	26.98	-23.57	46.55	54.00	7.45	Horizontal			



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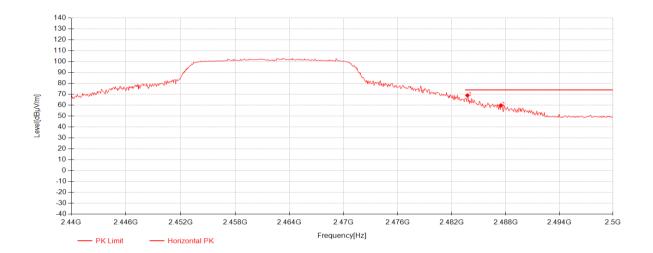


Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2373.96	33.80	26.95	-23.57	37.18	54.00	16.82	Vertical			
2	2389.82	37.89	26.98	-23.57	41.30	54.00	12.70	Vertical			



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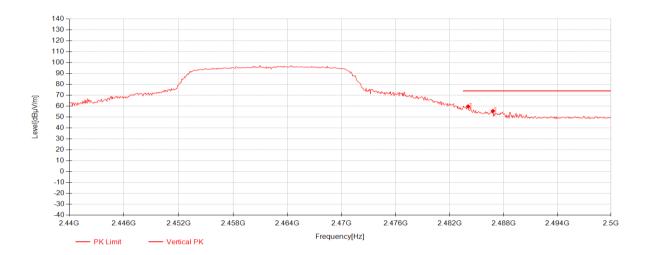


Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2483.74	65.41	27.17	-23.54	69.03	74.00	4.97	Horizontal			
2	2487.46	56.20	27.17	-23.54	59.83	74.00	14.17	Horizontal			



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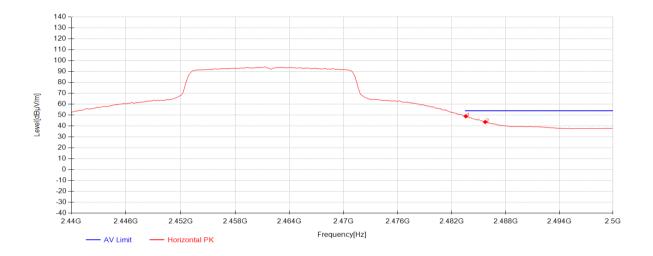


Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2484.04	56.16	27.17	-23.54	59.78	74.00	14.22	Vertical			
2	2486.8	51.91	27.17	-23.54	55.54	74.00	18.46	Vertical			



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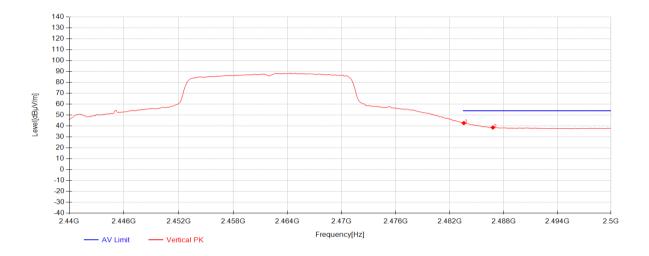
Data List											
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2483.56	45.34	27.17	-23.54	48.96	54.00	5.04	Horizontal			
2	2485.72	40.05	27.17	-23.54	43.68	54.00	10.32	Horizontal			



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802.11n20_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2483.56	39.07	27.17	-23.54	42.69	54.00	11.31	Vertical		
2	2486.8	34.98	27.17	-23.54	38.61	54.00	15.39	Vertical		

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

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

---End of Report---