

Report No.: XEWA2310000073RG06

Rev.: 01

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TEST REPORT

Application No.: XEWA2310000073RG

Applicant: Harman International Industries Incorporated
Address of Applicant: 30001, Cabot Drive, Novi, MI 48377, USA
Manufacturer: Harman International Industries Incorporated
Address of Manufacturer: 30001, Cabot Drive, Novi, MI 48377, USA

EUT Description: Toyota La-DCM **Model No.:** TYT25_LT_AA

Trade Mark: HARMAN

FCC ID: 2AHPN-TYT25-LT-AA

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

Date of Receipt: 2023/11/01

Date of Test: 2023/11/22 to 2024/01/08

Date of Issue: 2024/01/10

Test Result : PASS *

Authorized Signature:

Mus chen

Linus Chen Wireless Laboratory Manager



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710086 t (86–29) 6282 7885 710086 t (86–29) 6282 7885

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



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2024/01/10		Original

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



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2 Test Summary

Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result	Lab ^[2]
Antenna Requirement		15.203/15.407(a)		Clause 4.1	PASS	
26dB Emission Bandwidth	Band I Band II-A Band II-C	15.407(a)(1) 15.407(a)(2) 15.407(a)(2)	No limit.	Clause 4.5	For Report Purpose	В
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS	В
99% Occupied Bandwidth	Band II-A Band II-C Band III	KDB 789033 D02§ D	No limit.	Clause 4.7	For Report Purpose	В
Duty Cycle	Band I Band II-A Band II-C Band III		No limit.	Clause 4.3	For Report Purpose	В
Maximum	Band I	15.407(a)(ii)	<1W			
Conducted Output Power	Band II-A Band II-C	15.407(a)(2)	<min{250mw,11dbm+10*lg(ebw)}< td=""><td>Clause 4.4</td><td rowspan="2">PASS</td><td rowspan="2">В</td></min{250mw,11dbm+10*lg(ebw)}<>	Clause 4.4	PASS	В
- Catpat i Gwei	Band III	15.407(a)(3)	< 1W			
Maximum	Band I	15.407(a)(ii) < 17dBm/MHz				
Power Spectral Density	Band II-A Band II-C	15.407(a)(2)	<11dBm/MHz	Clause 4.8	PASS	В
Benety	Band III	15.407(a)(3)	<30dBm/500KHz			
	Band I	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS	
Radiated Spurious Emissions	Band II-A	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).	Clause 4.9	PASS	А
	Band II-C	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS	



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	Band III	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP) F≥1GHz &out-restricted:(PK) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS	
Restricted bands around fundamental frequency	Band I Band II-A Band II-C Band III	15.407(b) 15.205/15.209		Clause 4.10	PASS	А
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207		Clause 4.2	PASS	Α
Dynamic Frequency Selection	Band II-A Band II-C	15.407	DFS Detection Thresholds: Maximum Transmit Power	Clause 4.1	PASS	В
Frequency Stability Note 1:	Band I Band II-A Band II-C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A	N/A



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Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz

Note 2:

Lab A SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.

Lab B Compliance Certification Services (Kunshan) Inc.



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3 General Information

3.1 Details of Client

Applicant:	Harman International Industries Incorporated
Address of Applicant:	30001, Cabot Drive, Novi, MI 48377, USA
Manufacturer:	Harman International Industries Incorporated
Address of Manufacturer:	30001, Cabot Drive, Novi, MI 48377, USA

3.2 Test Location

Lab A:		
Company: SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.		
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China	
Post code:	710086	
Test engineer:	Jacky Xue	
Lab B:		
Company:	Compliance Certification Services (Kunshan) Inc.	
Address:	No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.	
Contact Information:	Tel: +86 512 5735 5888 Fax: +86 512 5737 0818	
Test engineer:	Hans Han	



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3.3 Test Facility

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

Lab A:

•A2LA (Certificate No. 4854.01)

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0095.

IC#: 25613.

• FCC -Designation Number: CN1337

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

laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410

Lab B:

A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc.has been recognized by Innovation, Science and Econamic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.:R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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3.4 General Description of EUT

NA 1 1 N		Toyota La-DCM		
Model No.:	TYT25_LT_AA			
Trade Mark:	HARMAN			
Hardware Version:	0.0.3			
Software Version:	TYTLLADCI	M_R04.5D		
Power Supply:	12V			
II AEI	RF Conducted 3565906		356590670015700	
IMEI:	RSE & AC power line		356590670015866	
	802.11a:	20 MHz chann	el bandwidth	
WLAN Mode Supported:	802.11n:	20 MHz / 40 MHz channel bandwidth		
	802.11ac:	20 MHz / 40 M	Hz / 80 MHz channel bandwidth	
Operation Frequency:	5250MHz to 5470MHz to	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz		
	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Modulation Type:	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)		
	20MHz:	802.11a/n(HT20)/ac(VHT20)		
Channel Spacing:	40MHz:	802.11n(HT40)/ac(VHT40)		
	80MHz:	802.11ac(VHT80)		
Antenna Type:	☐ External,	. ⊠ Integrated		
Antenna Gain:	5150MHz to 5250MHz: 3.59 dBi(Ant2); 5250MHz to 5350MHz: 4.08 dBi(Ant2); 5470MHz to 5725MHz: 4.33 dBi(Ant2); 5725MHz to 5850MHz: 4.90 dBi(Ant2); Note: The antenna gain are derived from the gain information report provided by the			
	manufacture			
	<u> </u>	802.11a/n/a	c 1a/n/ac: Tx & Rx	
Smart System:	□ мімо		11n/ac: Tx & Rx	
Smart Gyotom.			1n/ac: Tx & Rx	
	Diversity	ty 802.11a: Tx & Rx		



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TPC Function:	⊠Support, □Not Support				
Use Conditions:	Indoor				
DFS Function:	⊠Master				
DF3 FUNCTION.	☐Slave with radar detection	☐Slave without radar detection			
RF Cable:	1.0dB				
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.					

Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation				
1 MHz or less	1	centre				
1 MHz to 10 MHz	2	1 near high end, 1 near low end				
Greater than 10 MHz	3	1 near high end, 1 near centre				

For UNII Band I:						
Mode	Channel	Frequency(MHz)				
	The Lowest channel	5180				
IEEE 802.11a/n/ac 20MHz	The Middle channel	5200				
	The Highest channel	5240				
IEEE 000 44 m/oo 40MHz	The Lowest channel	5190				
IEEE 802.11n/ac 40MHz	The Highest channel	5230				
IEEE 802.11ac 80MHz	The Middle channel	5210				



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For UNII Band II-A:						
Mode Channel Frequency(MHz)						
	The Lowest channel	5260				
IEEE 802.11a/n/ac 20MHz	The Middle channel	5280				
	The Highest channel	5320				
IEEE 802.11n/ac 40MHz	The Lowest channel	5270				
IEEE 802. I III/ac 40MH2	The Highest channel	5310				
IEEE 802.11ac 80MHz	The Middle channel	5290				

For UNII Band II-C:						
Mode	Channel	Frequency(MHz)				
	The Lowest channel	5500				
IEEE 802.11a/n/ac 20MHz	The Middle channel	5580				
	The Highest channel	5700				
	The Lowest channel	5510				
IEEE 802.11n/ac 40MHz	The Middle channel	5550				
	The Highest channel	5670				
IEEE 802.11ac 80MHz	The Middle channel	5530				

For UNII Band III:						
Mode	Channel	Frequency(MHz)				
	The Lowest channel	5745				
IEEE 802.11a/n/ac 20MHz	The Middle channel	5785				
	The Highest channel	5825				
IEEE 000 44m/cc 40MHz	The Lowest channel	5755				
IEEE 802.11n/ac 40MHz	The Highest channel	5795				
IEEE 802.11ac 80MHz	The Middle channel	5775				



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3.5 Test Environment and Mode

Environment Parameter	96.0~101.0 kPa Selected Values During Tests				
Relative Humidity	40-60 % RH Ambient				
Value	Temperature(°C) Voltage(V)				
NTNV	22~25 12				
Domark:					

Remark:

NV: Normal Voltage NT: Normal Temperature

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 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
802.11a	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	/
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	1



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15 Section 15.203

The antenna is Integrated Antenna and no consideration of replacement.

The best case gain of the antenna is

5150MHz to 5250MHz: 3.59 dBi(Ant2);* 5250MHz to 5350MHz: 4.08 dBi(Ant2);* 5470MHz to 5725MHz: 4.33 dBi(Ant2);* 5725MHz to 5850MHz: 4.90 dBi(Ant2);*

*Note:

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

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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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.207					
Test Method:	ANSI C63.10-2013 Section 6.2					
Test Frequency Range:	150kHz to 30MHz					
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz				
Limit:		Limit (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 connected Impedance Stabilizated impedance. The power connected to a second plane in the same was multiple socket outlets single LISN provided. 3) The tabletop EUT was ground reference plane placed on the horizor. 4) The test was perform of the EUT shall be 00 vertical ground reference plane. The unit under test and be mounted on top of the between the closest part the EUT and associated. 5) In order to find the mas equipment and all of	disturbance voltage test was exted to AC power source throus ion Network) which provides a ser cables of all other units of the LISN 2, which was bonded by as the LISN 1 for the unit be strip was used to connect must the rating of the LISN was not a placed upon a non-metallic ne. And for floor-standing arrantal ground reference plane, ed with a vertical ground reference plane was bonded to the LISN 1 was placed 0.8 m from the vertical ground reference plane. This country of the LISN 1 and the Extended to the LISN 1 and the Extended equipment was at least 0. Eximum emission, the relative the interface cables must be concluded to measurement.	ugh a LISN 1 (Line a 50Ω/50μH + 5Ω linear the EUT were to the ground reference eing measured. A ultiple power cables to a ot exceeded. table 0.8m above the angement, the EUT was rence plane. The rear reference plane. The horizontal ground m the boundary of the plane for LISNs as distance was EUT. All other units of 8 m from the LISN 2. a positions of			



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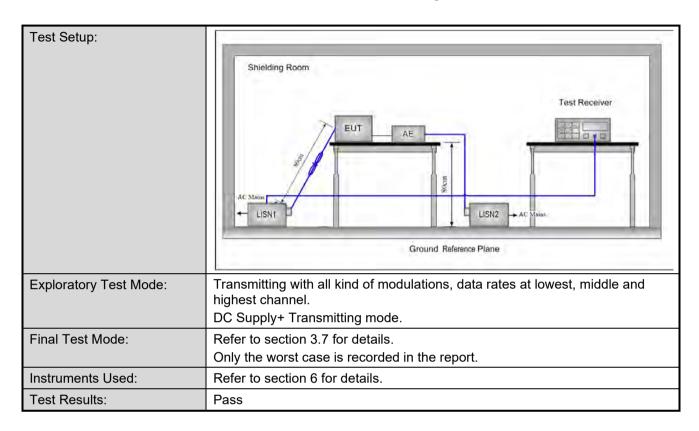
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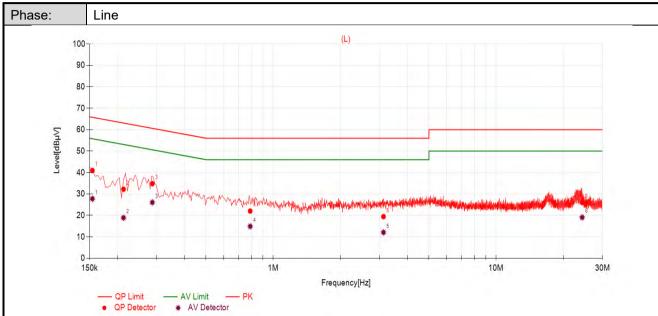
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Measurement Data

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

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



Data	List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1544	9.86	31.11	40.97	65.76	24.79	17.90	27.76	55.76	28.00	PASS
2	0.2130	9.85	22.37	32.22	63.09	30.87	9.05	18.90	53.09	34.19	PASS
3	0.2869	9.90	24.91	34.81	60.61	25.80	16.16	26.06	50.61	24.55	PASS
4	0.7888	9.92	12.11	22.03	56.00	33.97	4.98	14.90	46.00	31.10	PASS
5	3.1257	9.85	9.59	19.44	56.00	36.56	2.25	12.10	46.00	33.90	PASS
6	24.3504	10.28	15.75	26.03	60.00	33.97	8.81	19.09	50.00	30.91	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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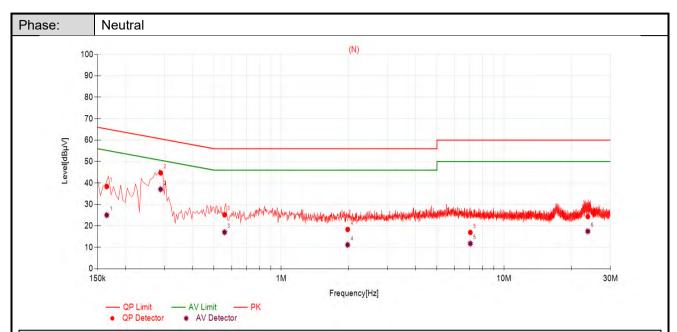
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Data	List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1650	9.79	28.57	38.36	65.21	26.85	15.23	25.02	55.21	30.19	PASS
2	0.2879	9.79	34.94	44.73	60.59	15.86	27.27	37.06	50.59	13.53	PASS
3	0.5575	9.86	15.30	25.16	56.00	30.84	7.19	17.05	46.00	28.95	PASS
4	1.9879	9.85	8.49	18.34	56.00	37.66	1.31	11.16	46.00	34.84	PASS
5	7.0599	10.05	6.88	16.93	60.00	43.07	1.71	11.76	50.00	38.24	PASS
6	23.7701	10.30	14.02	24.32	60.00	35.68	7.17	17.47	50.00	32.53	PASS

Remark:

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



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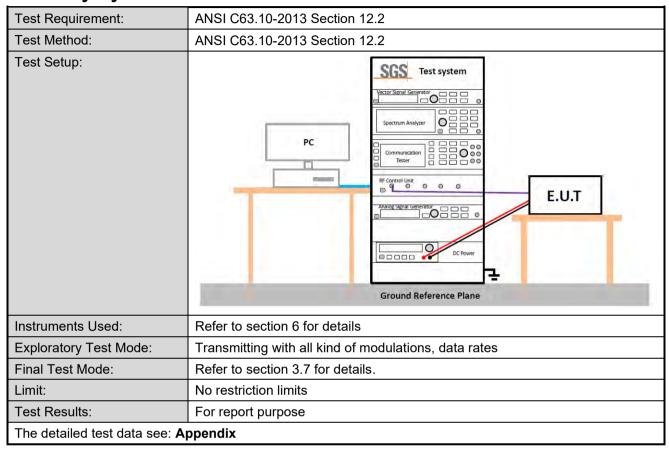


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4.3 Duty Cycle





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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)					
Test Method:	ANSI C63.10-2013 Section 12.3.3.2					
Test Setup:	Power meter O O	E.U.T Ground Reference Plane				
	* Test with power meter (Detector function: Average) Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.					
Test Instruments:	Refer to section 6 f	or details.				
Exploratory Test Mode:	Transmitting with a	Il kind of modulations, data rates				
Final Test Mode:	Refer to section 3.7	7 for details.				
Limit:	Frequency Band	Limit				
	5150-5250MHz	Not exceed 1W(30dBm)				
	5250-5350MHz The lesser of 250mW(23.98dBm) or 11+ 10logB					
	5470-5725MHz The lesser of 250mW(23.98dBm) or 11+ 10logB 5725-5850MHz Not exceed 1W(30dBm)					
	*Where B is the 26dB emission bandwidth in MHz					
Test Results:	Pass					
The detailed test data see: A	ppendix					



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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C			
Test Method:	ANSI C63.10-2013 Section 12.4.1			
Test Setup:	FF Control Unit PC Brown Generator FF Control Unit Ground Reference Plane			
Instruments Used:	Refer to section 6 for details.			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Refer to section 3.7 for details.			
Limit:	No restriction limits			
Test Results:	For Report Purpose			
The detailed test data see: A	ppendix			



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4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)					
Test Method:	ANSI C63.10-2013 Section 1	ANSI C63.10-2013 Section 12.4.1				
Test Setup:	PC	SGS Test system Vector Signal Generator Spectrum Analyzer Communication Tester RF Control Unit Analog Signal Generator DC Power E.U.T Ground Reference Plane				
Test Instruments:	Refer to section 6 for details.					
Exploratory Test Mode:	Transmitting with all kind of m	nodulations, data rates				
Final Test Mode:	Refer to section 3.7 for details	5.				
Limit:	Frequency Band	Limit				
	5725-5850MHz	At least 500kHz				
Test Results:	Pass					
The detailed test data see: A	ppendix					



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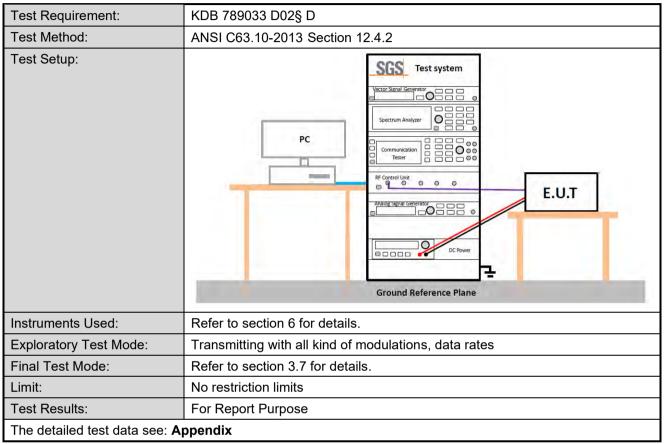


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4.7 99% Occupied Bandwidth





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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Sec	tion 15.407(a)
Test Method:	ANSI C63.10-2013 Section 12.5	
	KDB 789033 D02 v02r01, Section F.	
Test Setup:	PC	SGS Test system Vector Signal Generator Spectrum Analyzer Communication Tester RF Control Unit DC Power Ground Reference Plane
Instruments Used:	Refer to section 6 fo	r details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 17dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	
The detailed test data see: A	ppendix	



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)
Test Method:	ANSI C63.10-2013 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

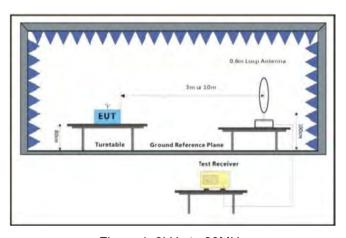
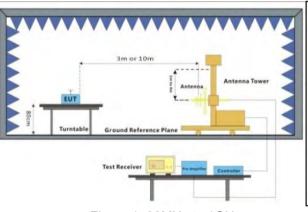


Figure 1. 9kHz to 30MHz



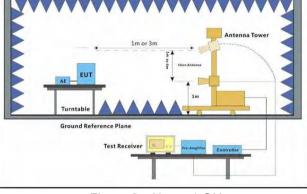


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. For below 1GHz test, 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.
- For above 1GHz test, 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.



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	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. Test the EUT in the outermost channels.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
	 i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
	k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
	I. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.
Test Configuration:	Measurements below 30MHz
	• RBW = 10 kHz
	• VBW = 30 kHz
	Detector = Peak & Average & Quasi-peak
	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 = 10Hz, when duty cycle is no less than 98 percent. VBW > 4/T = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =
	• VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum



Exploratory Test Mode:

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transmission duration over which the transmitter is on and is transmitting at its

maximum power control level for the tested mode of operation.

Transmitting with all kind of modulations, data rates.

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	DC Supply+ Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
	For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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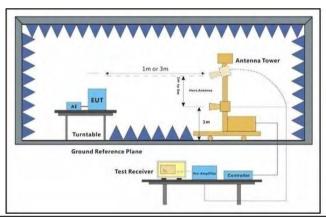
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)			
Test Method:	ANSI C63.10-2013 Section 12.7			
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark	
	30MHz-88MHz	40.0	Quasi-peak	
	88MHz-216MHz	43.5	Quasi-peak	
	216MHz-960MHz	46.0	Quasi-peak	
	960MHz-1GHz	54.0	Quasi-peak	
Above 1GHz	Above 4CH=	54.0	Average Value	
	74.0	Peak Value		

Test Setup:



Test Procedure:

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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



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modulation for lowest and highest channel. g. Test the EUT in the outermost channels. 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. 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 ≥ 10Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Test Results: Pass		
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. 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 • VBW = 1 MHz • VBW ≥ 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 Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 6 for details. Test Results: Pass		<u> </u>
Transmitting mode,And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Measurements Below 1000MHz · RBW = 120 kHz · VBW = 300 kHz · Detector = Quasi-peak · Trace mode = max hold 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 ≥ 10Hz, when duty cycle is no less than 98 percent. · VBW ≥ 10Hz, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Test Results: Pass		9
i. Repeat above procedures until all frequencies measured was complete. Measurements Below 1000MHz PRBW = 120 kHz VBW = 300 kHz Detector = Quasi-peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz WBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz WBW ≥ 1 MHz WBW = 1 MHz WBW = 1 MHz WBW = 1 MHz WBW = 10Hz, when duty cycle is no less than 98 percent. WBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Test Results: Pass		
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 ≥ 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 Tis 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: Exploratory Test Mode: Transmitting with all kind of modulations, data rates. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Test Results: Pass		
 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 = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Test Results: Pass 		
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 VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Test Results: Pass	Test Configuration:	Measurements Below 1000MHz
 Detector = Quasi-peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Instruments Used: Pass 		• RBW = 120 kHz
Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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: Exploratory Test Mode: Refer to section 3.7 for details. Refer to section 6 for details. Test Results: Pass		• VBW = 300 kHz
Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: Pass		Detector = Quasi-peak
 RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: 		Trace mode = max hold
VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: Pass		Peak Measurements Above 1000 MHz
 Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: 		• RBW = 1 MHz
 Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: Pass 		• VBW ≥ 3 MHz
Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Test Results: Pass		Detector = Peak
Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Test Results: Pass		Sweep time = auto
RBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: Pass		Trace mode = max hold
• VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: Pass		Average Measurements Above 1000MHz
VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: Pass		• RBW = 1 MHz
transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: Pass		 VBW = 10Hz, when duty cycle is no less than 98 percent.
DC Supply+ Transmitting mode. Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: Pass		transmission duration over which the transmitter is on and is transmitting at its
Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: Pass	Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Instruments Used: Refer to section 6 for details. Test Results: Pass		DC Supply+ Transmitting mode.
Test Results: Pass	Final Test Mode:	Refer to section 3.7 for details.
	Instruments Used:	Refer to section 6 for details.
The detailed test date and Ammendia	Test Results:	Pass
The detailed test data see: Appendix	The detailed test data see	e: Appendix



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4.11 Dynamic Frequency Selection

4.11.1 DFS Measurement Configuration

	Conducted Measurement
Test Condition	Use 500hms to connect cable/connector calibration and testing, Use wifi2 port for
1 CSt Condition	testing. Refer to Section 4.11.7 for test connection.

4.11.2 DFS Threshold level

DFS Threshold level:(-57.92; -57.67)dBm	⊠At the antenna connector	
	☐In front of the antenna	
The Interference Radar Detection Threshold Level is:		
(Band II-A: -62dBm + 4.08dBi + 0dB = -57.92dBm);		
(Band II-C: -62dBm + 4.33dBi + 0dB = -57.67dBm)		
That had been taken into account the output power range and antenna gain.		

4.11.3 Power-on cycle

The time required for the Master Device and/or Client Device to complete its power-on cycle(1.945S).

4.11.4 User Access Restrctions

DFS Controls(Hardware or software) related to radar detection are NOT accessible to the user. Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

4.11.5 Channel Loading/Data Streaming

	The dara file(MPEG-4) has been transmitting in a streaming mode.
\boxtimes	Software to ping the client is permitted to simuate data transfer with random ping intervals.
\boxtimes	Minimum channel loading of approximately 17%.
	Unicast protocol has been used.



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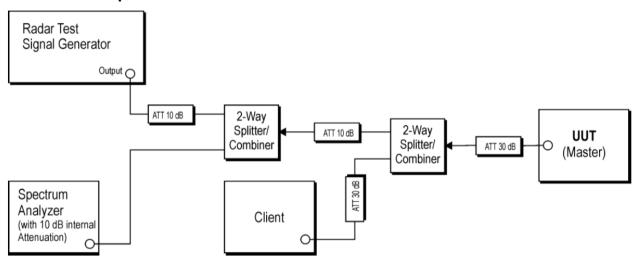
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4.11.6 Conducted Setup of Calibration of DFS Detection Threshold Level



4.11.7 Test Setup





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4.11.8 Test Procedures

4.11.8.1 U-NII Detection Bandwidth

Adjust the equipment to produce a single *Burst* of any one of the Short Pulse Radar Types 0-4 in **Table 5** at the center frequency of the UUT *Operating Channel* at the specified *DFS Detection Threshold* level found in **Table 3**.

Set the UUT up as a standalone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio reflecting the worst case (maximum) that is user configurable during this test.

Generate a single radar *Burst*, and note the response of the UUT. Repeat for a minimum of 10 trials. The UUT must detect the *Radar Waveform* within the DFS band using the specified *U-NII Detection Bandwidth* criterion shown in **Table 4**. In cases where the channel bandwidth may exceed past the DFS band edge on specific channels (i.e., 802.11ac or wideband frame based systems) select a channel that has the entire emission bandwidth within the DFS band. If this is not possible, test the detection BW to the DFS band edge. Starting at the center frequency of the UUT operating *Channel*, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the *U-NII Detection Bandwidth* criterion specified in **Table 4**. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as FH) at which detection is greater than or equal to the *U-NII Detection Bandwidth* criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.

Starting at the center frequency of the UUT operating *Channel*, decrease the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the *U-NII Detection Bandwidth* criterion specified in **Table 4**. Repeat this measurement in 1MHz steps at frequencies 5 MHz above where the detection rate begins to fall. Record the lowest frequency (denote as FL) at which detection is greater than or equal to the *U-NII Detection Bandwidth* criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.

The *U-NII Detection Bandwidth* is calculated as follows:

U-NII Detection Bandwidth = FH - FL

The *U-NII Detection Bandwidth* must meet the *U-NII Detection Bandwidth* criterion specified in **Table 4**. Otherwise, the UUT does not comply with DFS requirements. This is essential to ensure that the UUT is capable of detecting *Radar Waveforms* across the same frequency spectrum that contains the significant energy from the system. In the case that the *U-NII Detection Bandwidth* is greater than or equal to the 99 percent power bandwidth for the measured FH and FL, the test can be truncated and the *U-NII Detection Bandwidth* can be reported as the measured FH and FL.

4.11.8.2 Performance Requirements Check

The following tests must be performed for U-NII device certification: Initial *Channel Startup Check* with a radar *Burst* at start of *Channel Availability Check* and with a radar *Burst* at end of *Channel Availability Check*; *In-Service Monitoring*; and the 30 minute *Non-Occupancy Period*.

4.11.8.3 Initial Channel Availability Check Time

The Initial Channel Availability Check Time tests that the UUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the U-NII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms and only needs to be performed one time.

a) The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII *Channel* that must incorporate DFS functions. At the same time the UUT is powered on, the spectrum analyzer will be set to zero span mode with a 3 MHz RBW and 3 MHz VBW on the *Channel* occupied by the radar (Chr) with a 2.5 minute sweep time. The spectrum analyzer's sweep will be started at the same time power is applied to



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the U-NII device.

b) The UUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.

c) Confirm that the UUT initiates transmission on the channel

This measurement can be used to determine the length of the power-on cycle if it is not supplied by the manufacturer. If the spectrum analyzer sweep is started at the same time the UUT is powered on and the UUT does not begin transmissions until it has completed the cycle, the power-on time can be determined by comparing the two times.

4.11.8.4 Radar Burst at the Beginning of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test *Channel* during a period equal to the *Channel Availability Check Time* and avoidance of operation on that *Channel* when a radar *Burst* with a level equal to the *DFS Detection Threshold* + 1 dB occurs at the beginning of the *Channel Availability Check Time*. This is illustrated in **Figure 15**.

- a) The *Radar Waveform* generator and UUT are connected using the applicable test setup described in the sections on configuration for Conducted Tests (7.2) or Radiated Tests (7.3) and the power of the UUT is switched off.
- b) The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up). The *Channel Availability Check Time* commences on Chr at instant T1 and will end no sooner than T1 + Tch avail check.
- c) A single *Burst* of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at T1. An additional 1 dB is added to the radar test signal to ensure it is at or above the *DFS Detection Threshold*, accounting for equipment variations/errors.
- d) Visual indication or measured results on the UUT of successful detection of the radar *Burst* will be recorded and reported. Observation of Chr for UUT emissions will continue for 2.5 minutes after the radar *Burst* has been generated.
- e) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Chr. The *Channel Availability Check* results will be recorded.



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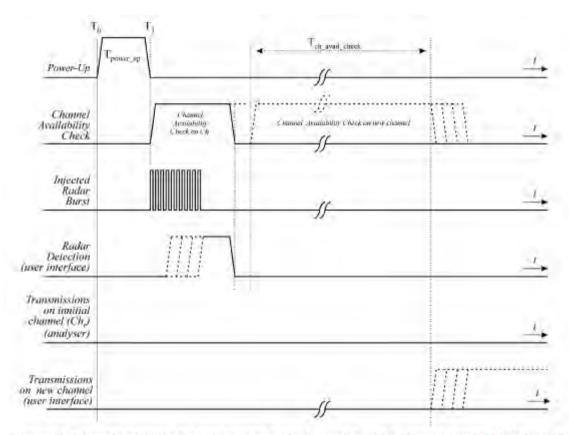


Figure 15: Example of timing for radar testing at the beginning of the Channel Availability Check Time

4.11.8.5 Radar Burst at the End of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test *Channel* during a period equal to the *Channel Availability Check Time* and avoidance of operation on that *Channel* when a radar *Burst* with a level equal to the *DFS Detection Threshold* + 1dB occurs at the end of the *Channel Availability Check Time*. This is illustrated in **Figure 16**.

- a) The *Radar Waveform* generator and UUT are connected using the applicable test setup described in the sections for Conducted Tests (7.2) or Radiated Tests (7.3) and the power of the UUT is switched off.
- b) The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up). The *Channel Availability Check Time* commences on Chr at instant T1 and will end no sooner than T1 + Tch avail check.
- c) A single *Burst* of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at T1 + 54 seconds. An additional 1 dB is added to the radar test signal to ensure it is at or above the *DFS Detection Threshold*, accounting for equipment variations/errors.
- d) Visual indication or measured results on the UUT of successful detection of the radar *Burst* will be recorded and reported. Observation of Chr for UUT emissions will continue for 2.5 minutes after the radar *Burst* has been generated.
- e) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Chr. The Channel Availability Check results will be recorded.



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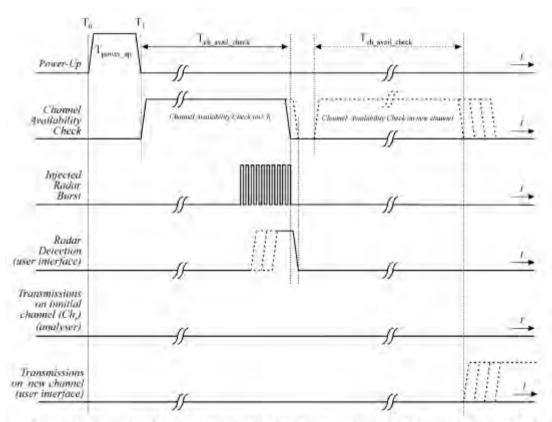


Figure 16: Example of timing for radar testing towards the end of the Channel Availability Check Time

4.11.8.6 In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

These tests define how the following DFS parameters are verified during *In-Service Monitoring*;

- Channel Closing Transmission Time
- Channel Move Time
- Non-Occupancy Period

The steps below define the procedure to determine the above mentioned parameters when a radar *Burst* with a level equal to the *DFS Detection Threshold* + 1dB is generated on the *Operating Channel* of the U-NII device (*In- Service Monitoring*).

a) One frequency will be chosen from the *Operating Channels* of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected. b) In case the UUT is a U-NII device operating as a *Client Device* (with or without DFS), a U-NII device operating as a *Master Device* will be used to allow the UUT (Client device) to *Associate* with the *Master Device*. In case the UUT is a *Master Device*, a U-NII device operating as a *Client Device* will be used and it is assumed that the Client will *Associate* with the UUT (Master). In both cases for conducted tests, the *Radar Waveform* generator will be connected to the *Master Device*. For radiated tests, the emissions of the *Radar Waveform* generator will be directed towards the *Master Device*. If the *Master Device* has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing. c) Stream the channel loading test file from the *Master Device* to the *Client Device* on the test *Channel* for



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the entire period of the test.

d) At time T0 the *Radar Waveform* generator sends a *Burst* of pulses for one of the Radar Type 0 in **Table 5** at levels defined in **Table 3**, on the *Operating Channel*. An additional 1 dB is added to the radar test signal to ensure it is at or above the *DFS Detection Threshold*, accounting for equipment variations/errors.

e) Observe the transmissions of the UUT at the end of the radar *Burst* on the *Operating Channel* for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (*Channel Move Time*). Measure and record the *Channel Move Time* and *Channel Closing Transmission Time* if radar detection occurs. **Figure 17** illustrates *Channel Closing Transmission Time*.

f) When operating as a *Master Device*, monitor the UUT for more than 30 minutes following instant T2 to verify that the UUT does not resume any transmissions on this *Channel*. Perform this test once and record the measurement result.

g) In case the UUT is a U-NII device operating as a *Client Device* with *In-Service Monitoring*, perform steps a) to f).

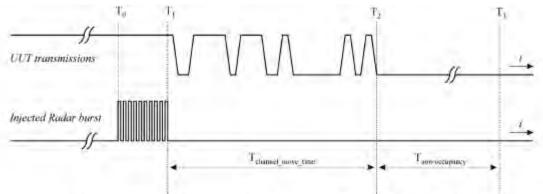


Figure 17: Example of Channel Closing Transmission Time & Channel Closing Time

4.11.8.7 Statistical Performance Check

The steps below define the procedure to determine the minimum percentage of successful detection requirements found in **Tables 5-7** when a radar burst with a level equal to the *DFS Detection Threshold* + 1dB is generated on the *Operating Channel* of the U-NII device (*In- Service Monitoring*).

- a) One frequency will be chosen from the *Operating Channels* of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.
- b) In case the UUT is a U-NII device operating as a *Client Device* (with or without Radar Detection), a U-NII device operating as a *Master Device* will be used to allow the UUT (Client device) to *Associate* with the *Master Device*. In case the UUT is a *Master Device*, a U-NII device operating as a *Client Device* will be used and it is assumed that the Client will *Associate* with the UUT (Master). In both cases for conducted tests, the *Radar Waveform* generator will be connected to the *Master Device*. For radiated tests, the emissions of the *Radar Waveform* generator will be directed towards the *Master Device*. If the *Master Device* has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
- c) Stream the channel loading test file from the *Master Device* to the Client Device on the test *Channel* for the entire period of the test.
- d) At time T0 the *Radar Waveform* generator sends the individual waveform for each of the Radar Types 1- 6 in **Tables 5-7**, at levels defined in **Table 3**, on the *Operating Channel*. An additional 1 dB is added to the radar test signal to ensure it is at or above the *DFS Detection Threshold*, accounting for equipment variations/errors.
- e) Observe the transmissions of the UUT at the end of the Burst on the *Operating Channel* for duration greater than 10 seconds for Radar Type 0 to ensure detection occurs.



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f) Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.

g) In case the UUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps a) to f).

4.11.8.8 Short Pulse Radar Test

Once the performance requirements check is complete, statistical data will be gathered, to determine the ability of the device to detect the radar test waveforms (Short Pulse Radar Types 1-4) found in Table 5. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials. The percentage of successful detection is calculated by:

<u>TotalWaveformDetections</u> x100 = Percentage of Successful Detection Radar Waveform N = PdN

TotalWaveformTrials

In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:

$$\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4}$$

The minimum number of trails, minimum percentage of successful detection and the aggregate minimum percentage of successful detection are found in Table 5.

4.11.8.9 Long Pulse Radar Test

Statistical data will be gathered to determine the ability of the device to detect the Long Pulse Radar Type 5 found in Table 6. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials.

Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency:

- a) the Channel center frequency (Figure 18);
- b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth (Figure 19); and
- c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth (Figure 20).

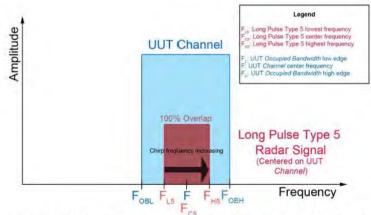


Figure 18: Example of the Relationship Between Long Pulse Type 5 Signal and the U-NII channel when the Signal is Tuned to the UUT Channel Center Frequency



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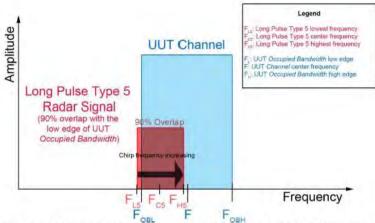


Figure 19: Example of the Relationship Between Long Pulse Type 5 Signal and the U-NII channel when the Signal is Tuned so that 90% of the Radar Signal Overlaps with the Low Edge of the UUT Occupied Bandwidth

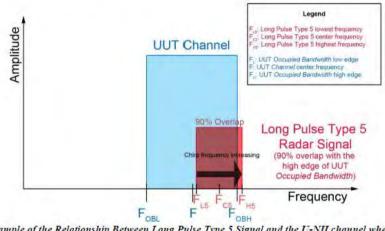


Figure 20: Example of the Relationship Between Long Pulse Type 5 Signal and the U-NII channel when the Signal is Tuned so that 90% of the Radar Signal Overlaps with the High Edge of the UUT Occupied Bandwidth

For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT *Channel*.

For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT *Occupied Bandwidth*, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by:

 $FL+(0.4*Chirp\ Width\ [in\ MHz])$

For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT *Occupied Bandwidth*, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by:

FH-(0.4*Chirp Width [in MHz])

The percentage of successful detection is calculated by dividing the sum of the detections for the three subsets by the sum of trials for the three subsets:

 $\frac{TotalWaveformDetections}{TotalWaveformTrials} \times 100$



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4.11.8.10 Frequency Hopping Radar Test

Statistical data will be gathered to determine the ability of the device to detect the Frequency Hopping radar test signal (radar type 6) found in **Table 7**. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs. The probability of successful detection is calculated by:

 $\frac{Total Wave form Detections}{Total Wave form Trials} \times 100$



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4.11.9 Applicability of DFS Requirements Prior to Use of a Channel

		DFS Operational mode			
Requirement	Master	Client Without Radar Detection	Client With Radar Detection		
Non-Occupancy Period	Yes	Not required	Yes		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
U-NII Detection Bandwidth	Yes	Not required	Yes		

4.11.10 Applicability of DFS Requirements During Normal Operation

	DFS Operational mode		
Requirement	Master Device or Client with Radar Detection	Client Without Radar Detection	
DFS Detection Threshold	Yes	Not required	
Channel Availability Check Time	Yes	Yes	
Channel Move Time	Yes	Yes	
U-NII Detection Bandwidth	Yes	Not required	

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.



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4.11.11 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

4.11.12 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



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4.11.13 Short Pulse Radar Test Waveforms

Table 5 - Short Pulse Radar Test Waveforms

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	num per of als
values randomly selected from the list of 23 PRI values in Table	ote 1
values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	0
2 1-5 150-230 23-29 60% 30)
3 6-10 200-500 16-18 60% 30)
4 11-20 200-500 12-16 60% 30)
Aggregate (Radar Types 1-4) 80% 12	0

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 µsec is selected, the number of pulses

would be 6 1 19 10 Roundup
$$\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{3066} \right) \right\}$$
 Round up $\{17.2\} = 18$.



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Table 5a - Pulse Repetition Intervals Values for Test A

Table 3a - Fulse Repetition littervals values for Test A						
Pulse Repetition Frequency	Pulse Repetition Frequency	Pulse Repetition Interval				
Number	(Pulses Per Second)	(Microseconds)				
1	1930.5	518				
2	1858.7	538				
3	1792.1	558				
4	1730.1	578				
5	1672.2	598				
6	1618.1	618				
7	1567.4	638				
8	1519.8	658				
9	1474.9	678				
10	1432.7	698				
11	1392.8	718				
12	1355	738				
13	1319.3	758				
14	1285.3	778				
15	1253.1	798				
16	1222.5	818				
17	1193.3	838				
18	1165.6	858				
19	1139	878				
20	1113.6	898				
21	1089.3	918				
22	1066.1	938				
23	326.2	3066				

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection		
1	35	29	82.9%		
2	30	18	60%		
3	30	27	90%		
4 50 44 88%					
Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2%					



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4.11.14 Long Pulse Radar Test Waveform

Table 6 - Long Pulse Radar Test Waveform

			1 0.0.0	Tong i wice ita	dai i oot ii a i	,, , , , , , , , , , , , , , , , , , ,	
Radar Type	Width	Chirp Width (MHz)	(/	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Each waveform is defined as follows:

- 1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- 2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count.
- 3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- 4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- 5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a transmission period will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- 6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the random time interval between the first and second pulses is chosen independently of the random time interval between the second and third pulses.
- 7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst Count. Each interval is of length (12,000,000 / Burst Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst Count) (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen randomly.

4.11.15 Frequency Hopping Radar Test Waveform

Table 7 – Frequency Hopping Radar Test Waveform

			10.0	Taramay mapping	g itaaan i oot .		
Radar Type	\/\/idth	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm: If a segment does not contain at least 1 frequency within the U-NII Detection Bandwidth of the UUT, then that segment is not used.

The detailed test data see: Appendix



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

Lab A:

Edo / (.		
No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2		± 4.6dB (9KHz to 30MHz)
		± 4.9dB (30MHz to 1GHz)
	Radiated Emission	± 4.9dB (1GHz to 6GHz)
		± 4.7dB (6GHz to 18GHz)
		± 5.26dB (Above 18GHz)

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

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

Lab B:

Item	Measurement Uncertainty
Radio Frequency	8.4 x 10 ⁻⁸ GHz
Timeout	2s
Duty Cycle	0.37%
Occupied Bandwidth	3%
RF Conducted Power	0.6dB
RF Power Density	2.9dB
Conducted Spurious Emissions	0.75dB
	Radio Frequency Timeout Duty Cycle Occupied Bandwidth RF Conducted Power RF Power Density

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;
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6 Equipment List

Lab A:

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

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	RSE Test System							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/d d)	Cal.Due date (yyyy/mm/d d)			
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08			
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15			
Spectrum Analyzer	ROHDE&SCH WARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14			
Test receiver	ROHDE&SCH WARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29			
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27			
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27			
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22			
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR			
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR			
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR			
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR			
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14			
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2023/08/30	2024/08/29			
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2023/08/30	2024/08/29			
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2023/08/30	2024/08/29			
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/09/04	2024/09/03			
Radio communication analyzer	ROHDE&SCH WARZ	CMW 500	XAW01-03-07	2023/08/30	2024/08/29			
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR			
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25			

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Lab B:

RF Test Equipment							
Test Equipment	Manufacturer	Model No.	Model No. Inventory No.		Cal.Due date (yyyy/mm/dd)		
Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	2023/08/24	2024/08/23		
Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	2023/08/24	2024/08/23		
Spectrum Analyzer	Keysight	N9030B	KSEM021-1	2023/02/03	2024/02/02		
Signal Generator	R&S	SMBV100B	KSEM032	2023/03/16	2024/03/15		
Signal Generator	R&S	SMW200A	KSEM020-1	2023/08/24	2024/08/23		
Signal Generator	Agilent	N5182A	KUS2001M001-1	2023/08/24	2024/08/23		
Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	2023/08/24	2024/08/23		
Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	2023/03/16	2024/03/15		
Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	2023/08/24	2024/08/23		
Switcher	CCSRF	FY562	KUS2001M001-3	2023/08/24	2024/08/23		
AC Power Source	EXTECH	6605	KS301178	NCR	NCR		
DC Power Supply	Aglient	E3632A	KS301180	NCR	NCR		
Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	2023/02/03	2024/02/02		
Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	2023/08/24	2024/08/23		
Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	2023/03/22	2024/03/21		
Software	BST	TST-PASS	1	NCR	NCR		

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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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Duty Cycle Test Result

					Ant2		
Mode	TX	Frequency	T on	Period	Duty Cycle	Duty Cycle	Max. DC
iviode	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
	-	5180	5.402	5.544	97.44	0.11	0.67
		5200	5.402	5.560	97.16	0.13	0.95
		5240	5.400	5.578	96.81	0.14	1.28
		5260	5.402	5.578	96.84	0.14	1.27
		5300	5.402	5.580	96.81	0.14	1.30
802.11a	SISO	5320	5.402	5.560	97.16	0.13	0.95
002.11a	3130	5500	5.402	5.580	96.81	0.14	1.30
		5580	5.402	5.578	96.84	0.14	1.27
		5700	5.402	5.560	97.16	0.13	0.95
		5745	5.402	5.562	97.12	0.13	0.99
		5785	5.416	6.334	85.51	0.68	12.90
		5825	5.402	5.578	96.84	0.14	1.27
		5180	5.001	5.169	96.75	0.14	1.20
		5200	5.002	5.178	96.60	0.15	1.34
		5240	5.001	5.152	97.07	0.13	0.89
	•	5260	5.003	5.171	96.75	0.14	1.20
		5300	5.002	5.178	96.60	0.15	1.36
802.11n	SISO	5320	5.001	5.162	96.88	0.14	1.06
(HT20)		5500	5.001	5.178	96.58	0.15	1.38
		5580	5.001	5.169	96.75	0.14	1.20
		5700	5.001	5.179	96.56	0.15	1.36
		5745	5.003	5.161	96.94	0.14	1.03
		5785	5.017	5.604	89.53	0.48	8.71
		5825	5.002	5.178	96.60	0.15	1.34
		5190	2.430	2.607	93.21	0.31	2.68
		5230	2.429	2.597	93.53	0.29	2.37
		5270	2.430	2.607	93.21	0.31	2.64
802.11n		5310	2.430	2.606	93.25	0.30	2.65
(HT40)	SISO	5510	2.431	2.607	93.25	0.30	2.68
(11140)		5550	2.430	2.588	93.89	0.27	2.02
		5670	2.429	2.606	93.21	0.31	2.68
		5755	2.430	2.606	93.25	0.30	2.68
		5795	2.430	3.197	76.01	1.19	19.95
	_	5210	1.150	1.317	87.32	0.59	5.08
802.11ac		5290	1.150	1.327	86.66	0.62	5.67
	SISO	5530	1.150	1.326	86.73	0.62	5.65
(VHT80)		5610	1.149	1.317	87.24	0.59	4.41
		5775	1.149	1.317	87.24	0.59	5.07

Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11n HT20/40 by referring to their higher output power.



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Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
802.11a	5.402	5.544	97.44	0.185116623	0.3KHz
802.11n (HT20)	5.001	5.169	96.75	0.199960008	0.3KHz
802.11n (HT40)	2.430	2.607	93.21	0.411522634	0.51KHz
802.11ac (VHT80)	1.150	1.317	87.32	0.869565217	1KHz



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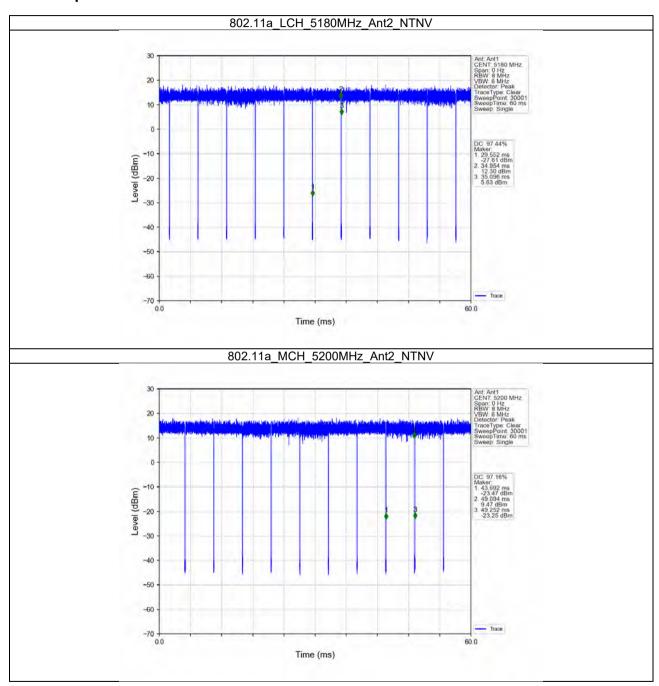


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Test Graphs





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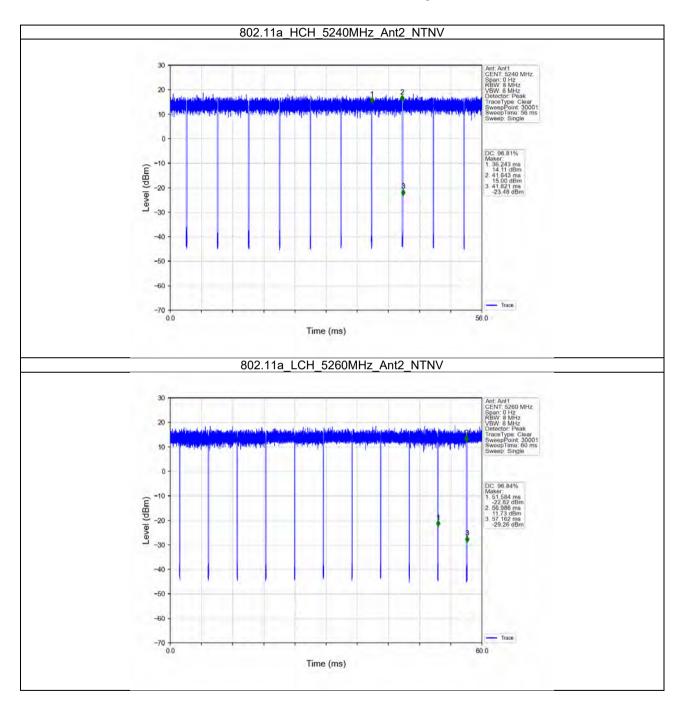
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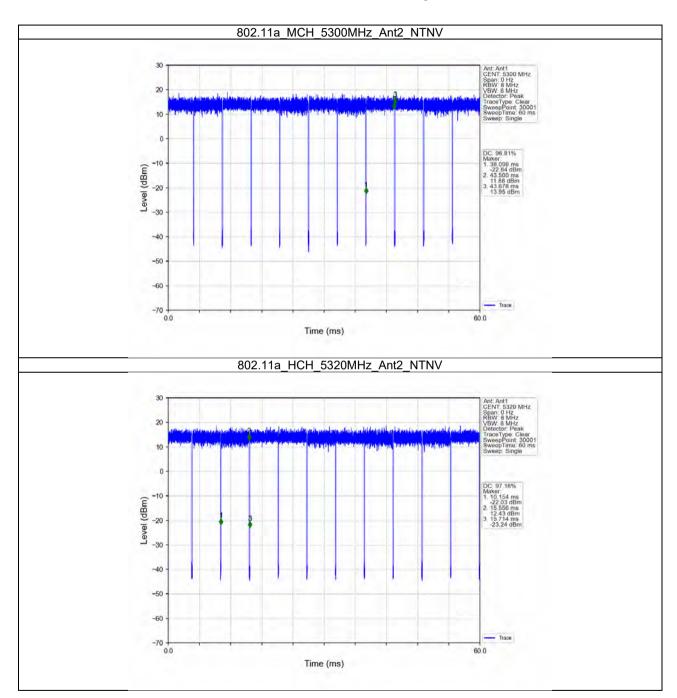
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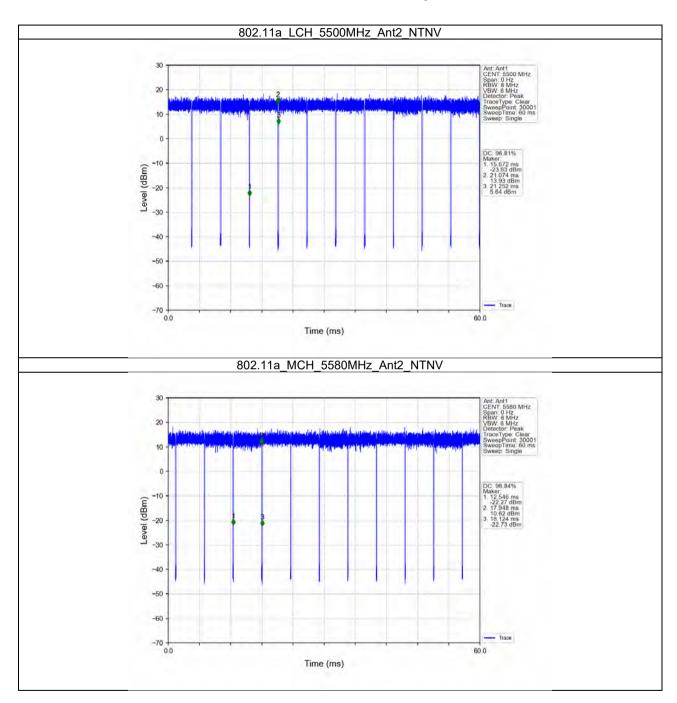
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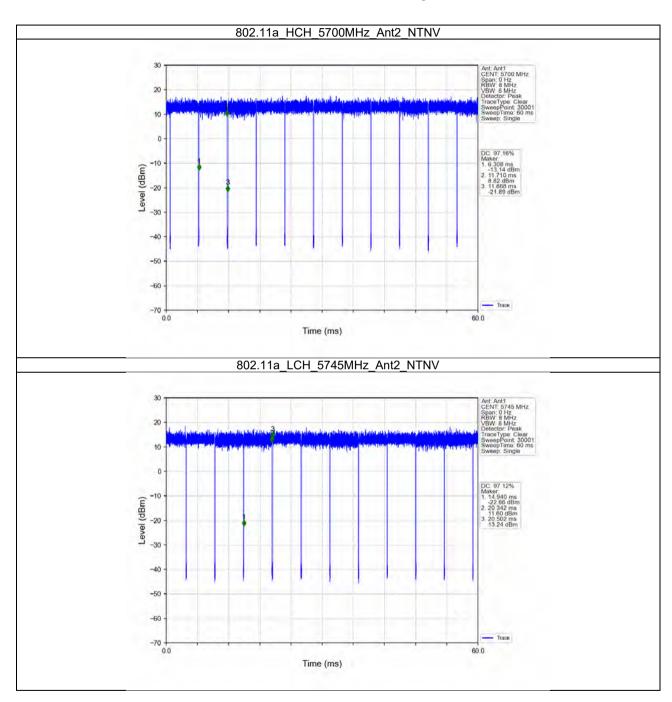
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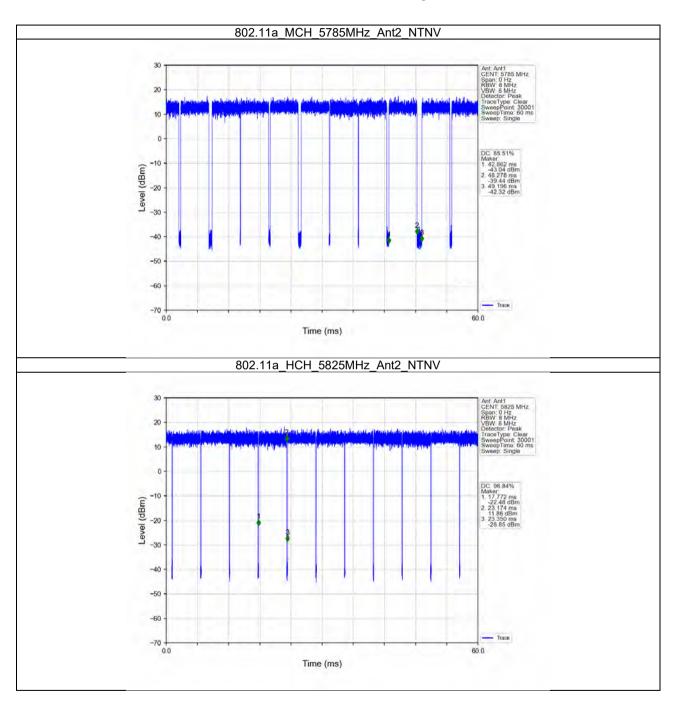
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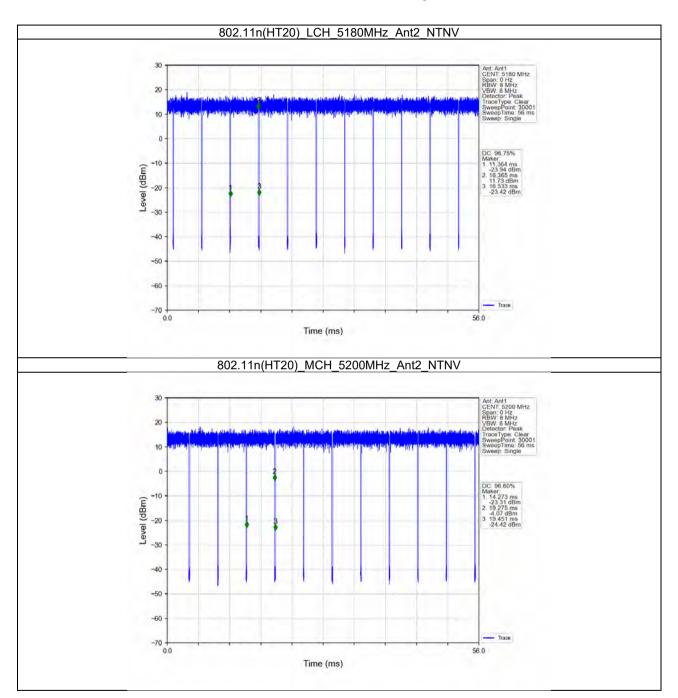
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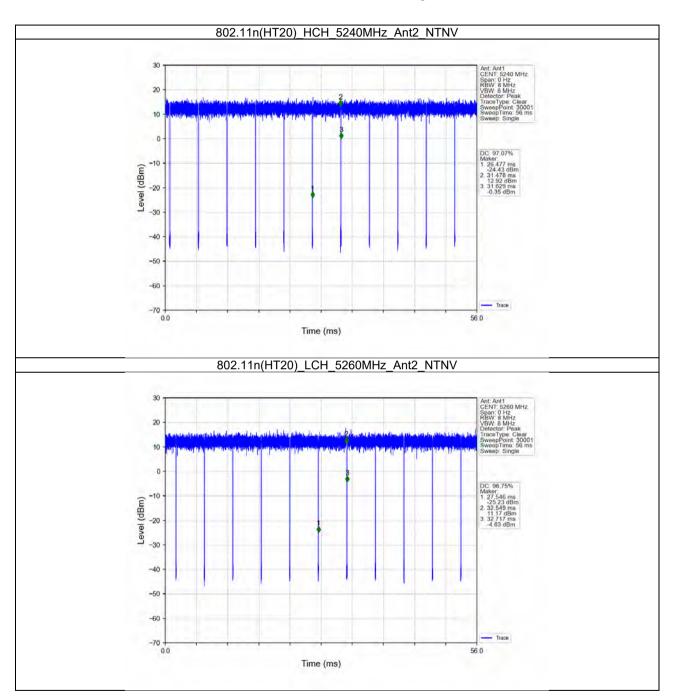
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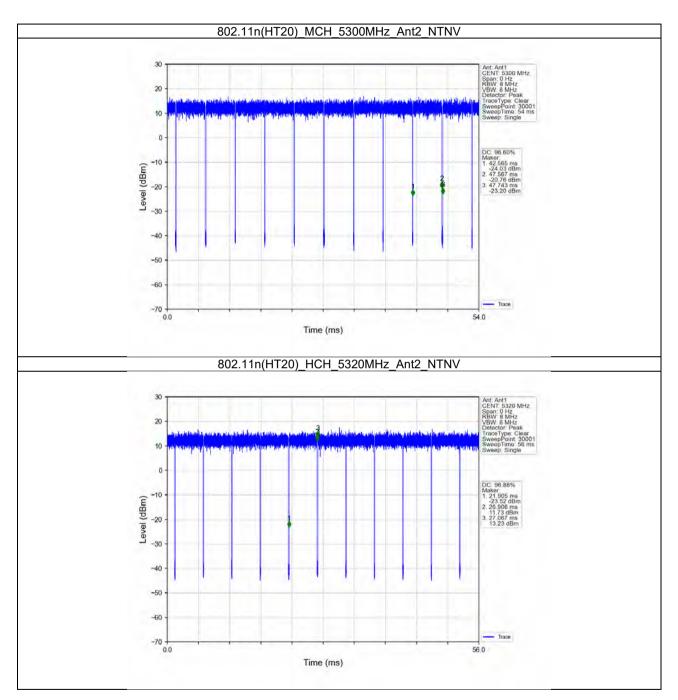
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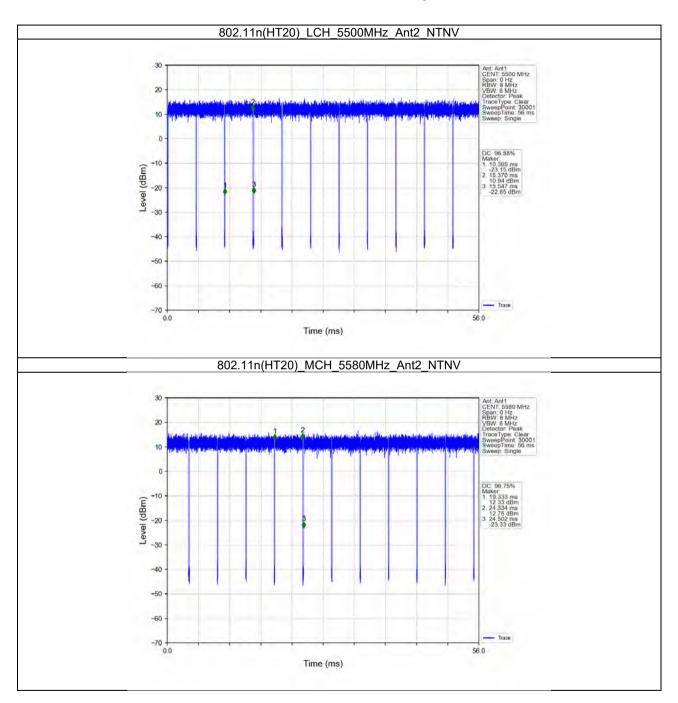
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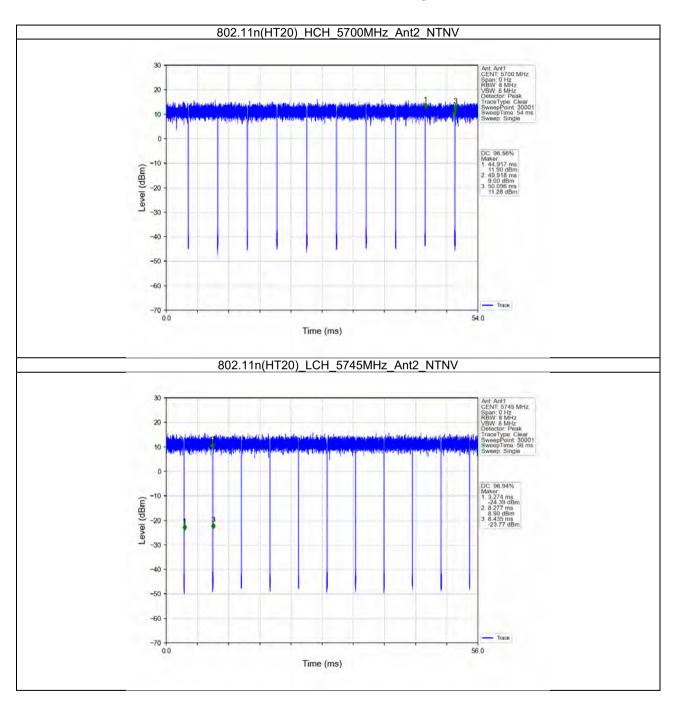
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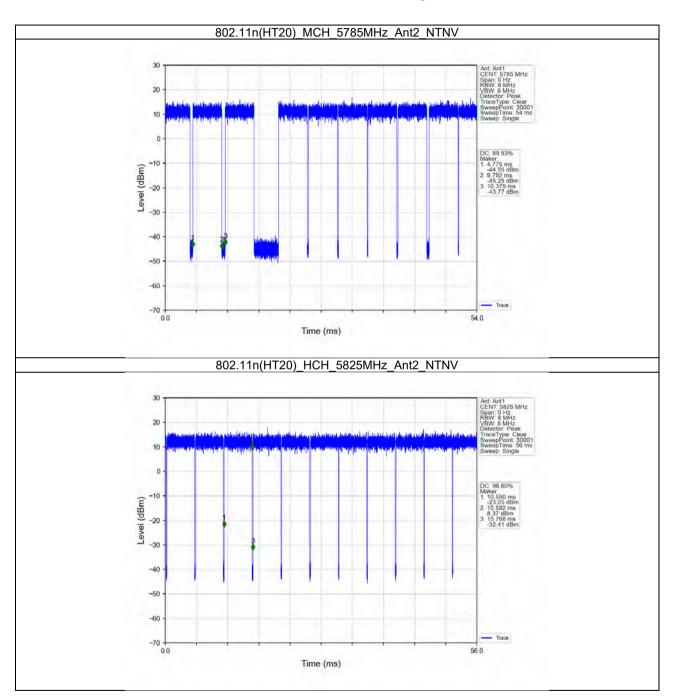
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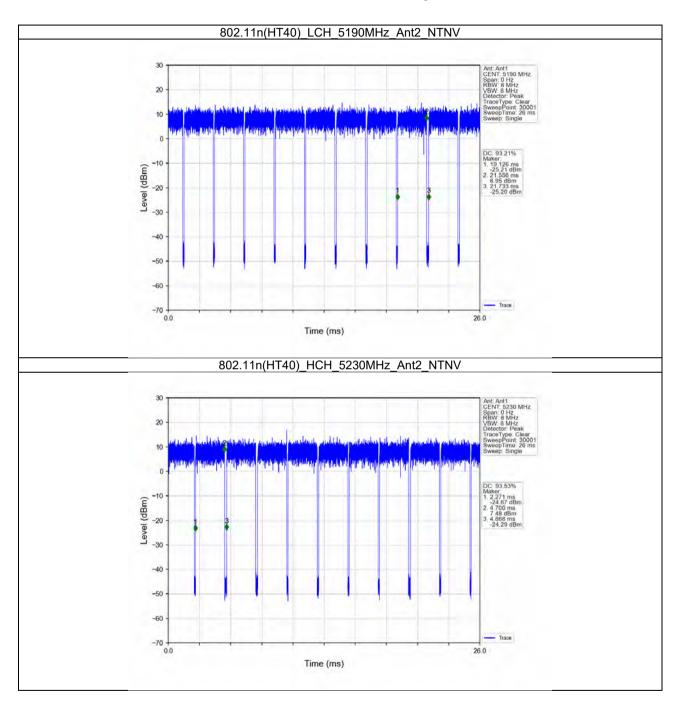
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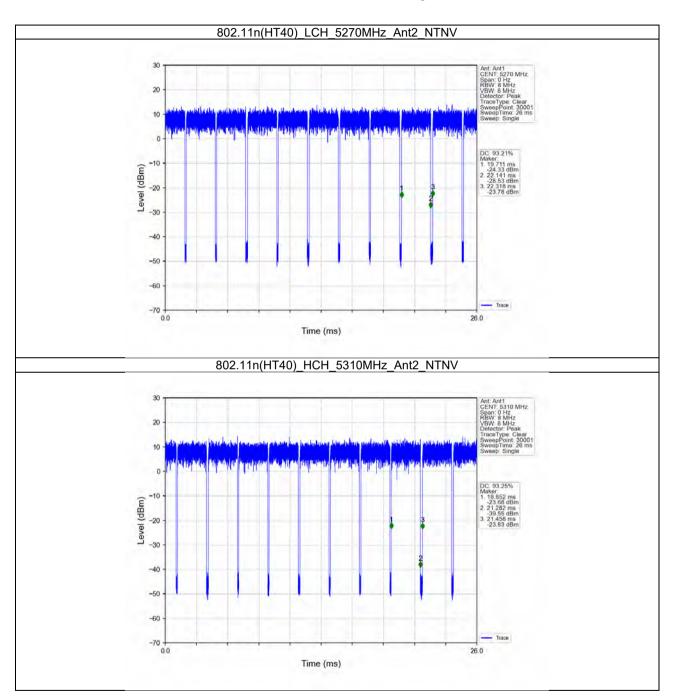
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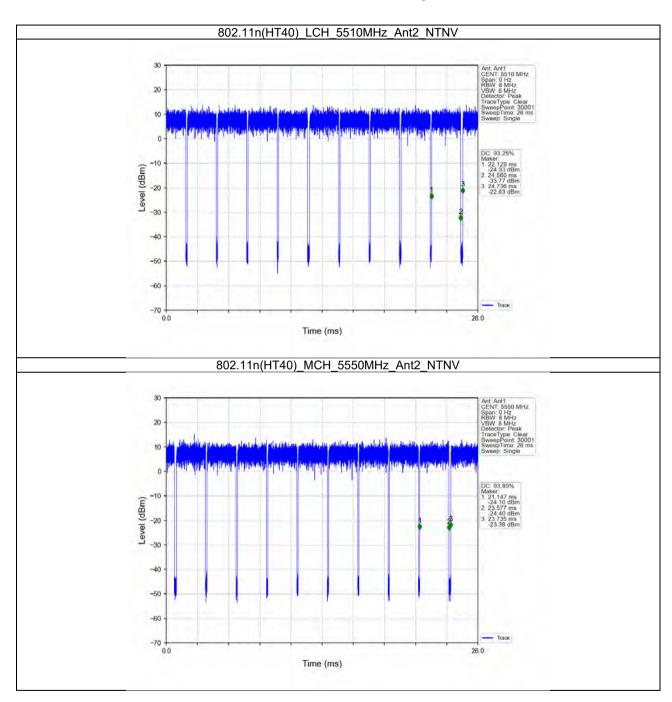
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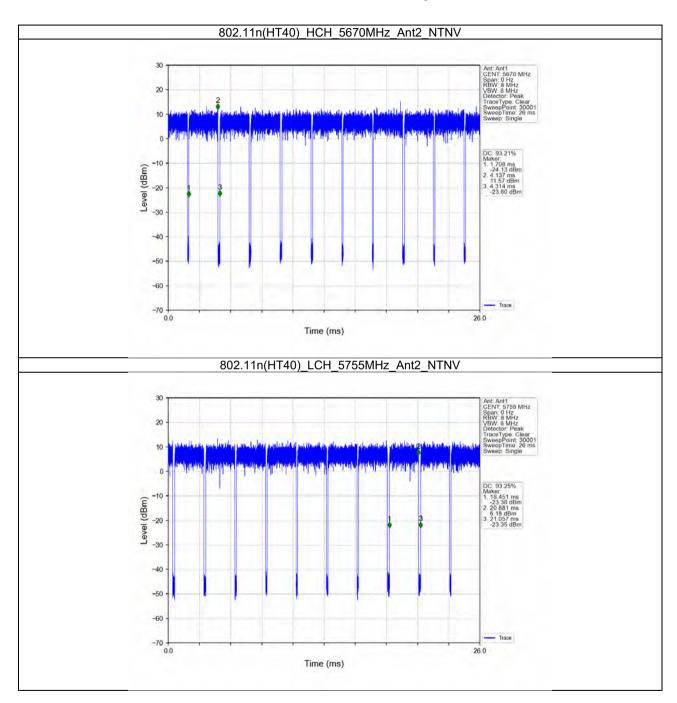
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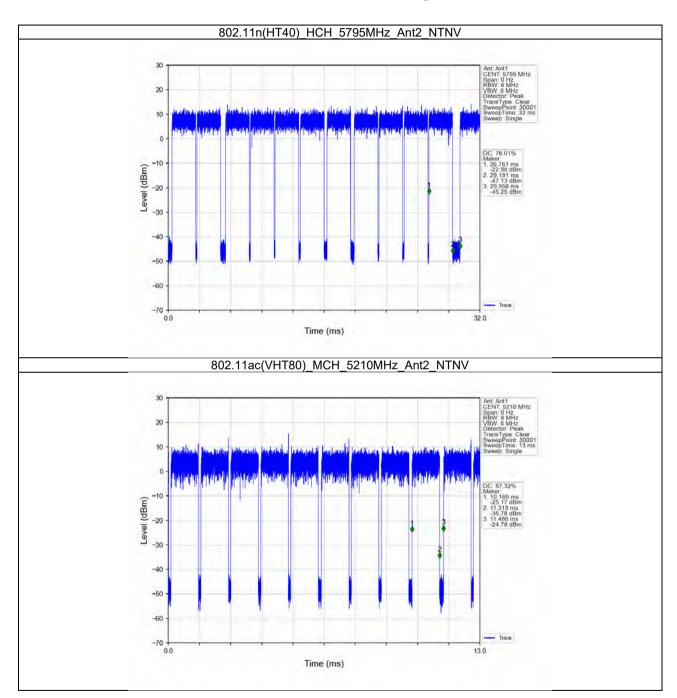
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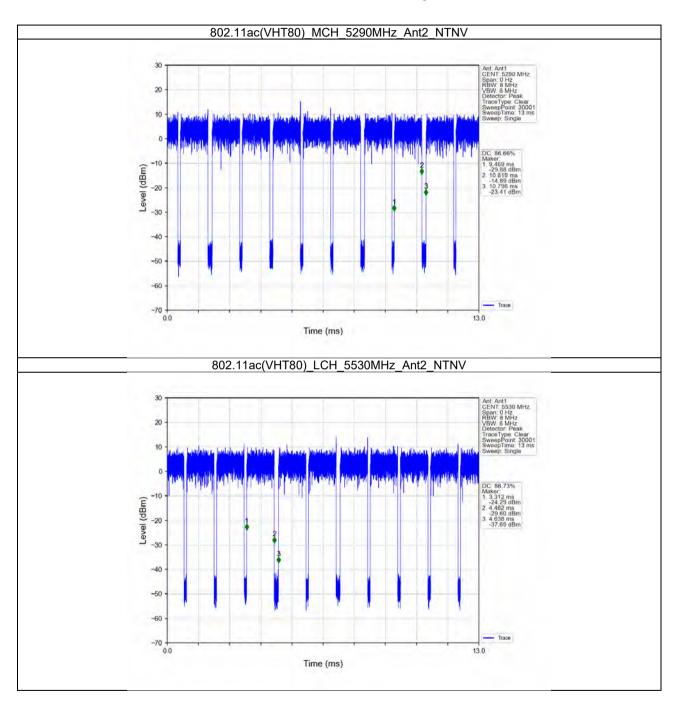
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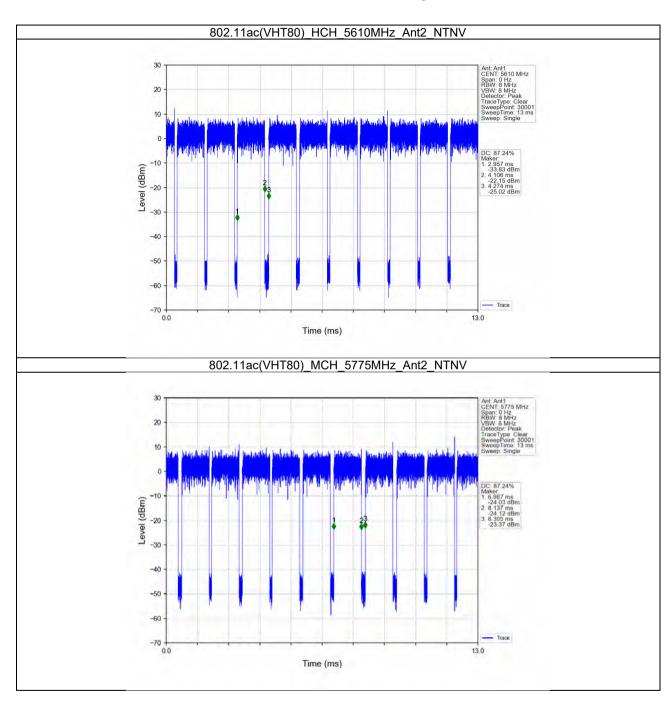
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Occupied Channel Bandwidth Test Result

Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)		
Туре		(MHz)	ANI	Result	Limit	Verdict
		5180	2	16.687	1	Pass
		5200	2	16.672	1	Pass
		5240	2	16.672	1	Pass
		5260	2	16.630	1	Pass
		5300	2	16.661	1	Pass
802.11a	SISO	5320	2	16.676	1	Pass
802.11a	5150	5500	2	16.671	1	Pass
		5580	2	16.651	1	Pass
		5700	2	16.631	1	Pass
		5745	2	16.662	1	Pass
		5785	2	16.654	1	Pass
		5825	2	16.662	1	Pass
	SISO	5180	2	17.711	1	Pass
		5200	2	17.711	1	Pass
		5240	2	17.706	1	Pass
		5260	2	17.706	1	Pass
		5300	2	17.724	1	Pass
802.11n		5320	2	17.737	1	Pass
(HT20)		5500	2	17.735	1	Pass
,		5580	2	17.702	1	Pass
		5700	2	17.710	1	Pass
		5745	2	17.697	1	Pass
		5785	2	17.722	1	Pass
		5825	2	17.706	1	Pass
		5190	2	36.047	1	Pass
	SISO	5230	2	36.086	1	Pass
		5270	2	36.151	1	Pass
000.44		5310	2	36.102	1	Pass
802.11n		5510	2	36.220	1	Pass
(HT40)		5550	2	36.319	1	Pass
		5670	2	36.207	1	Pass
		5755	2	36.145	1	Pass
		5795	2	36.189	1	Pass
	SISO	5210	2	75.034	1	Pass
		5290	2	74.896	1	Pass
802.11ac		5530	2	74.962	1	Pass
(VHT80)		5610	2	74.901	1	Pass
		5775	2	74.983	1	Pass

Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11n HT20/40 by referring to their higher output power.



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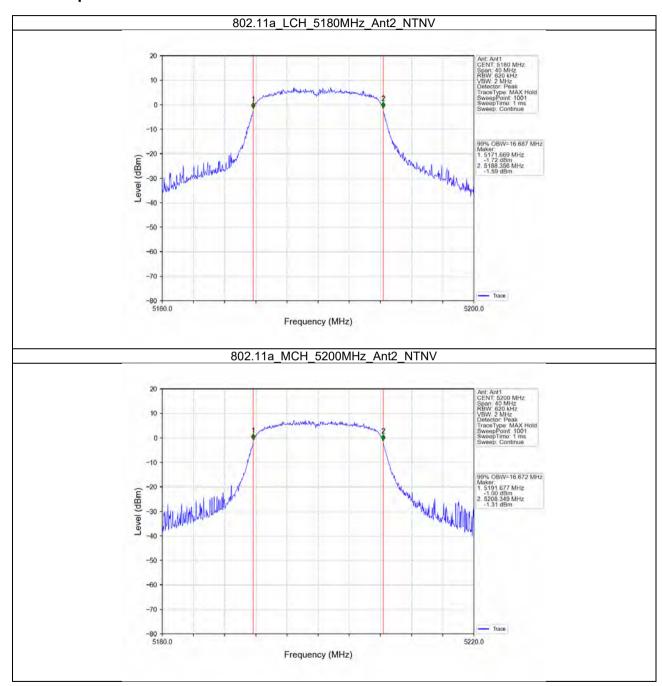


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Test Graphs





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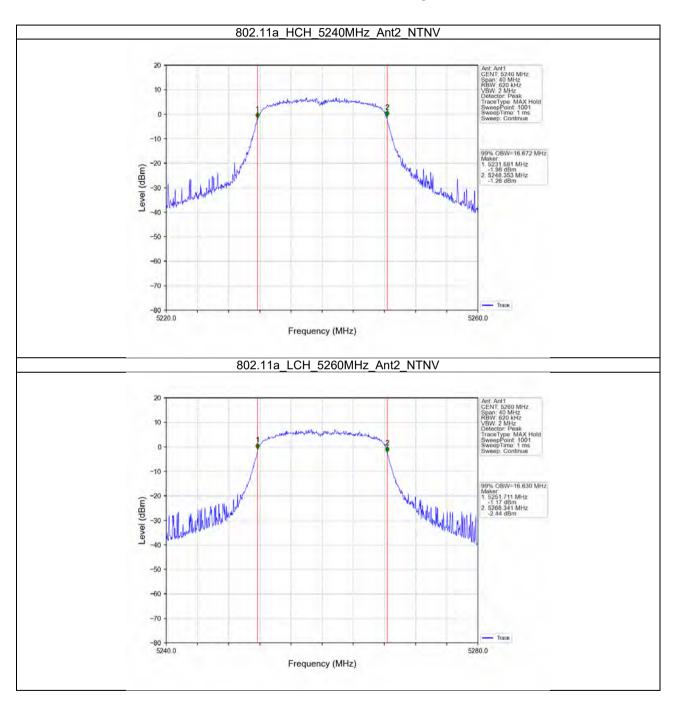
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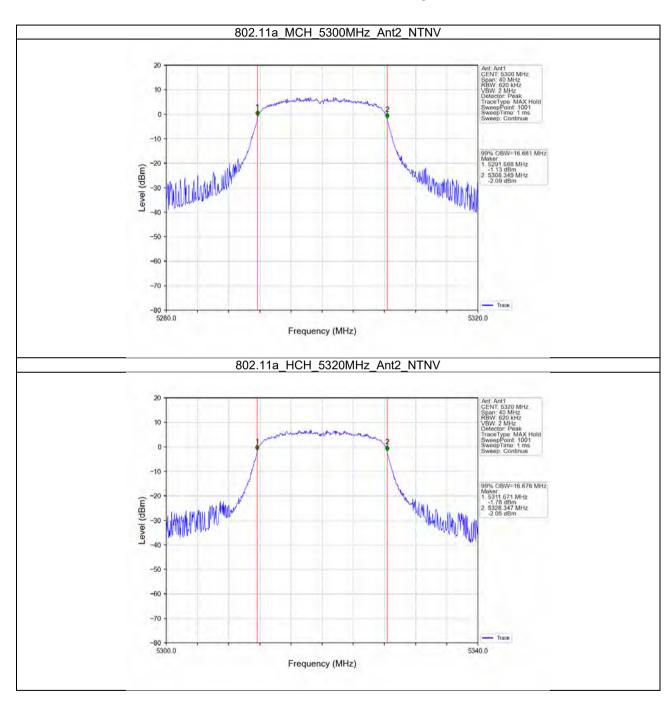
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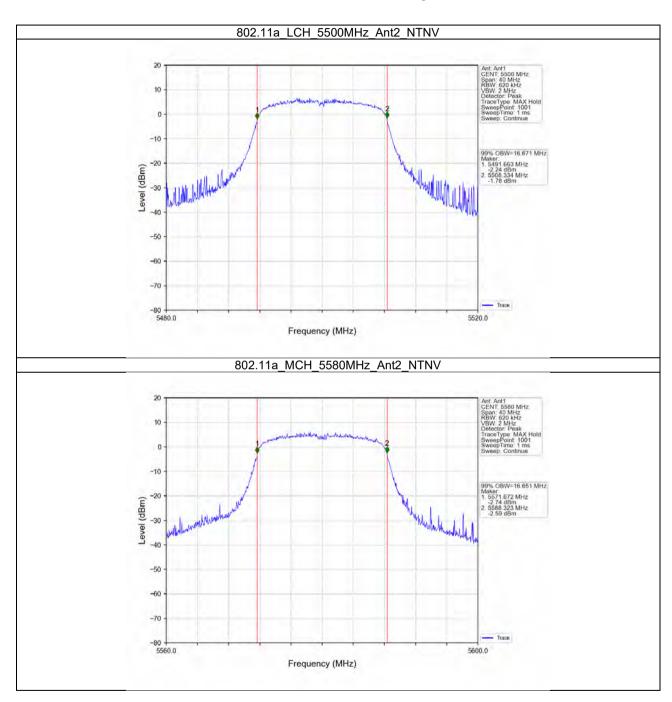
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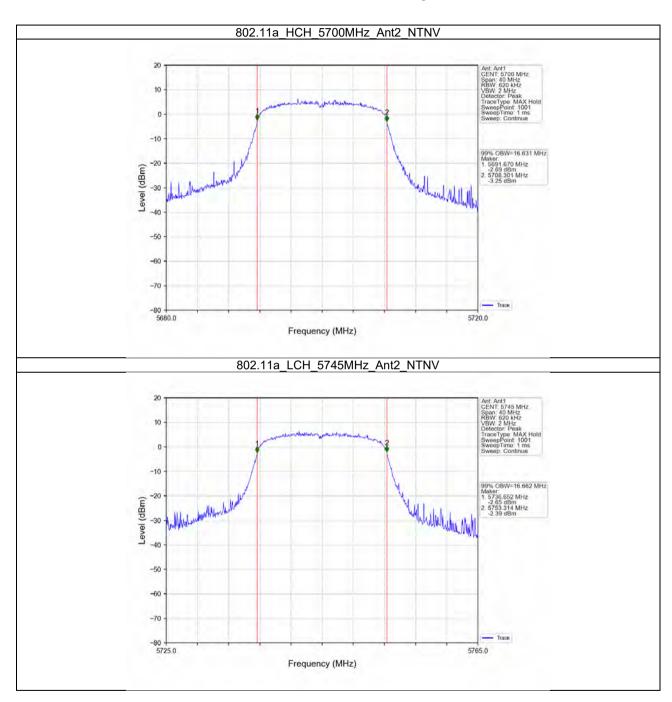
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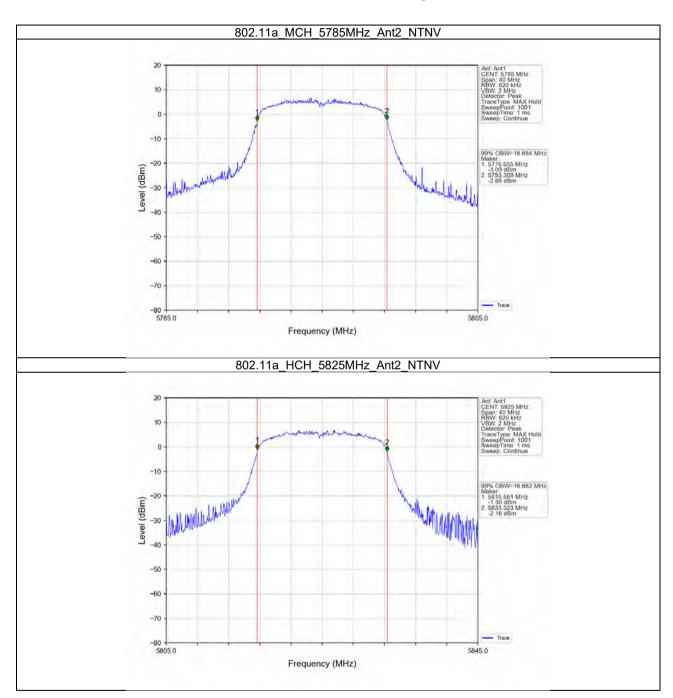
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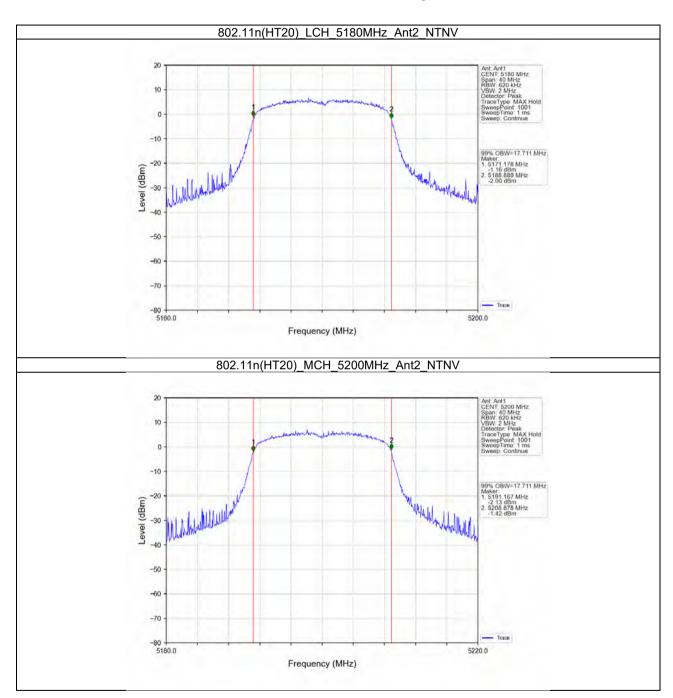
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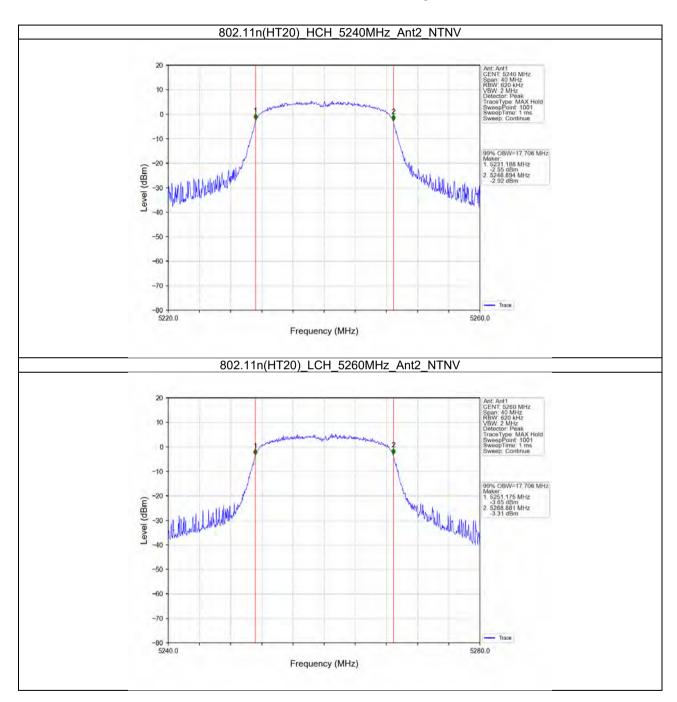
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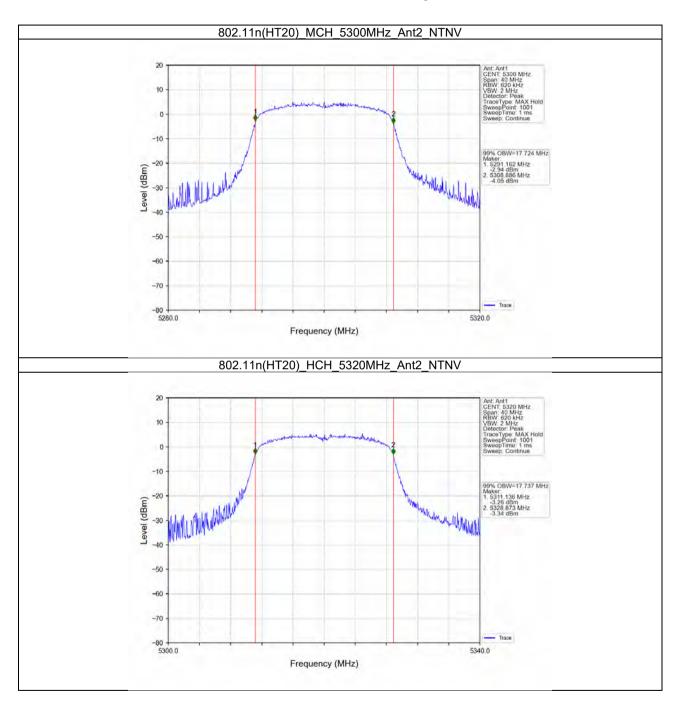
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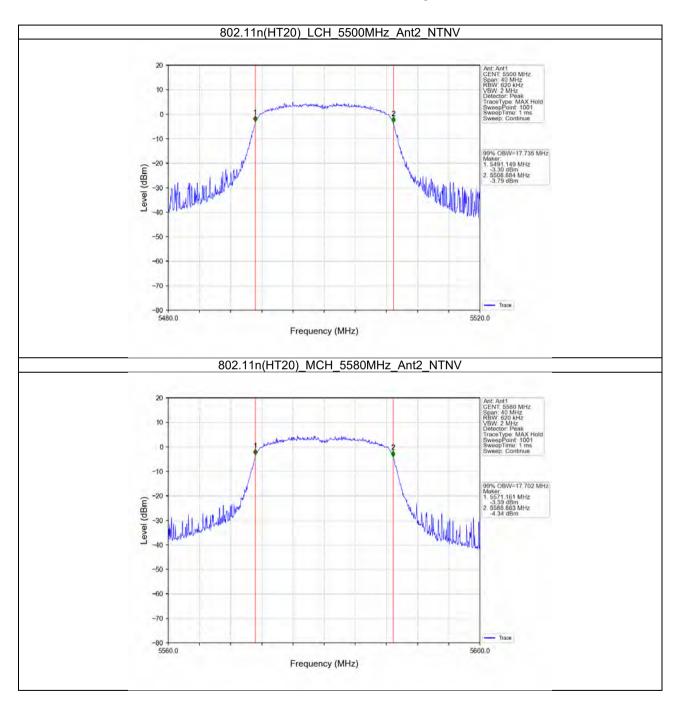
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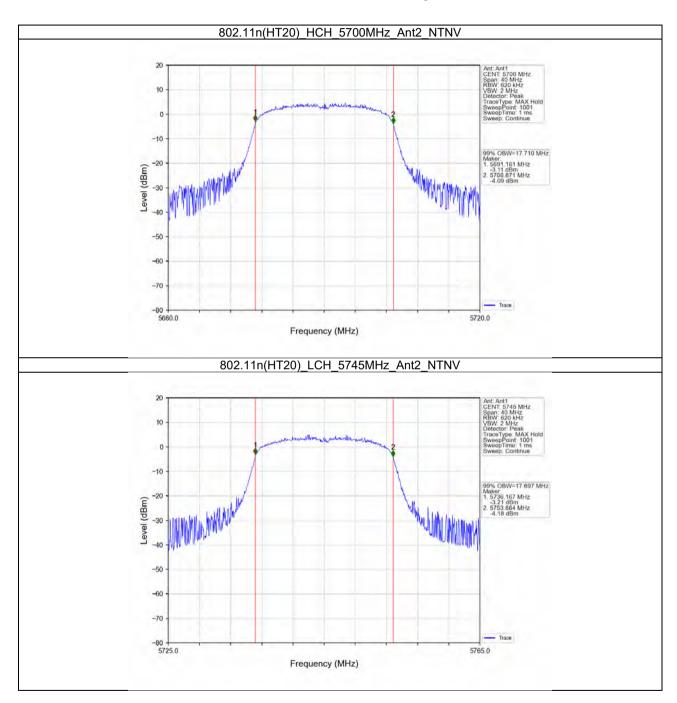
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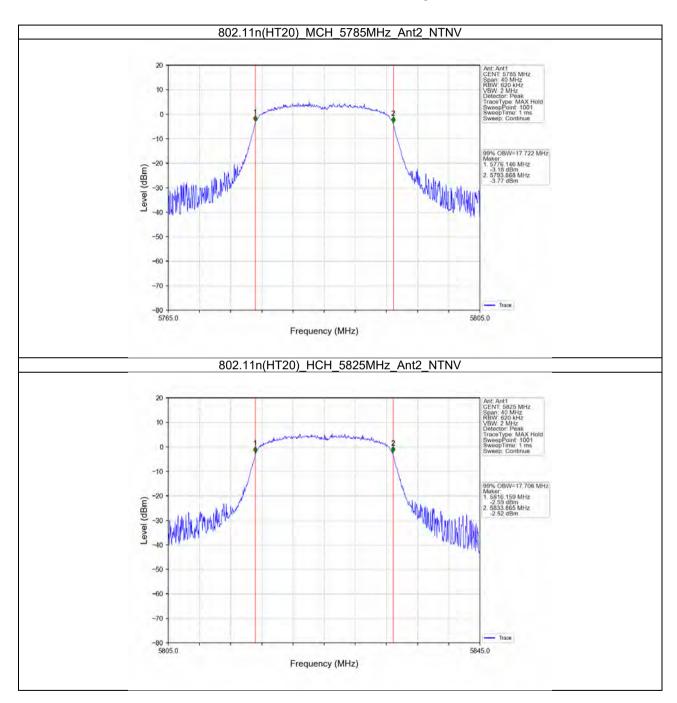
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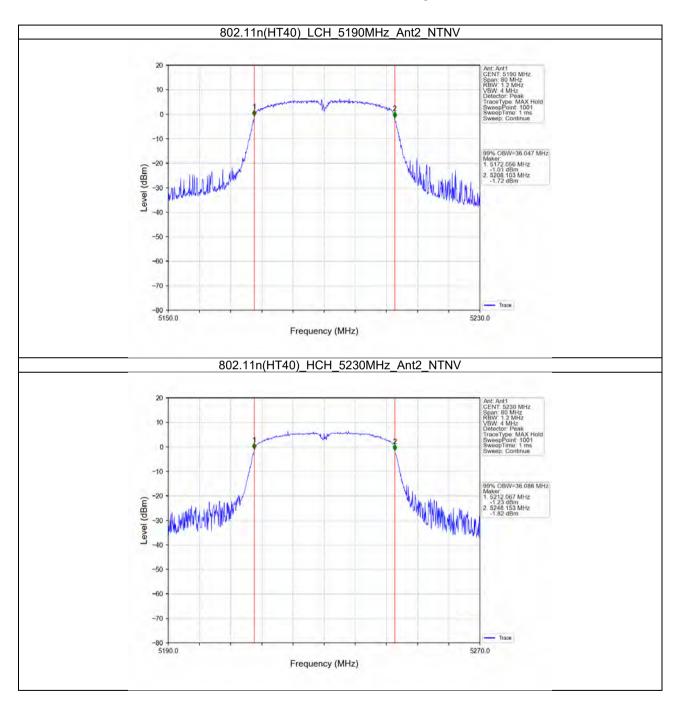
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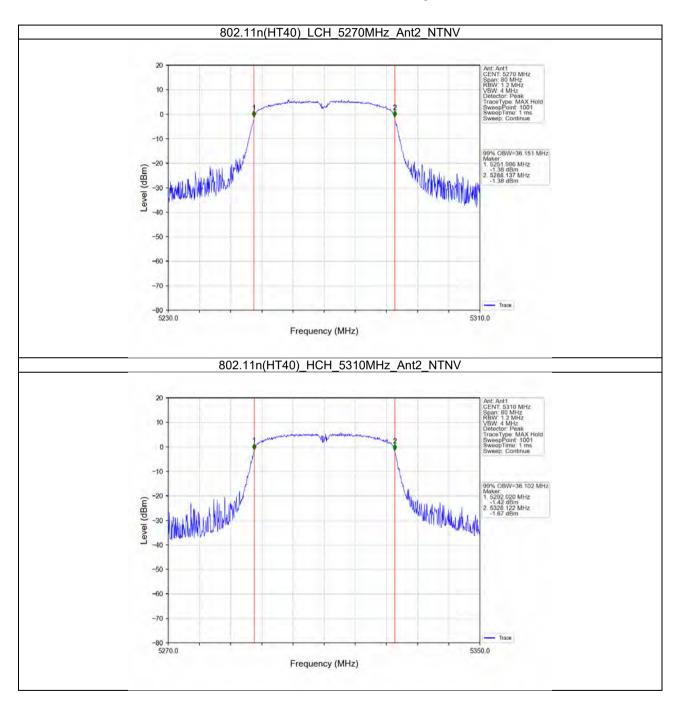
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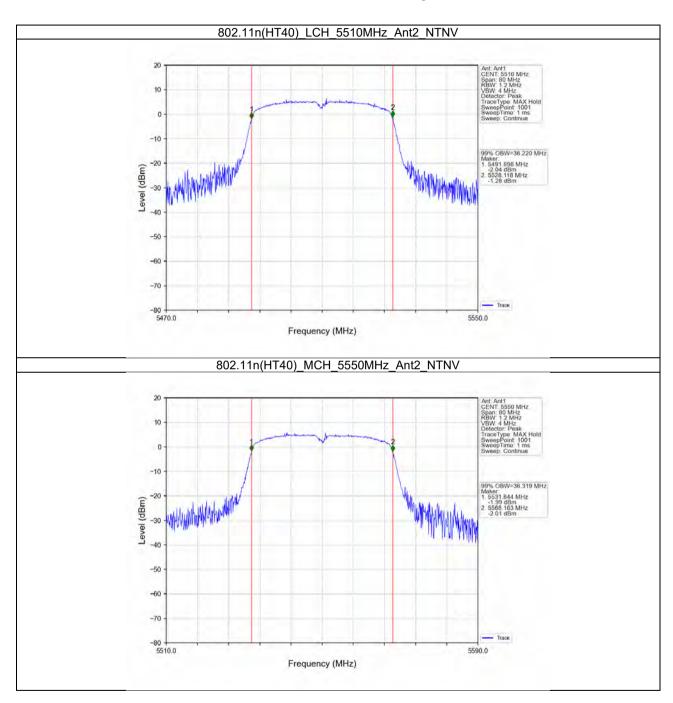
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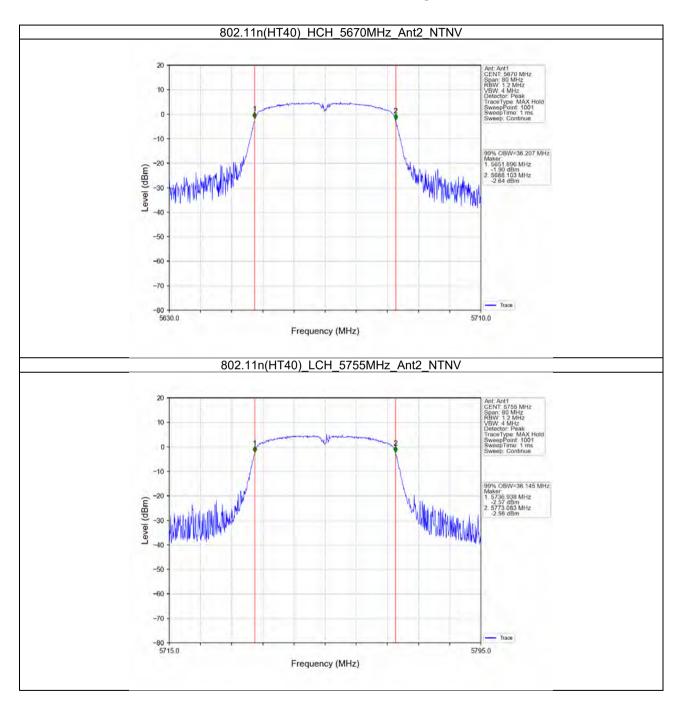
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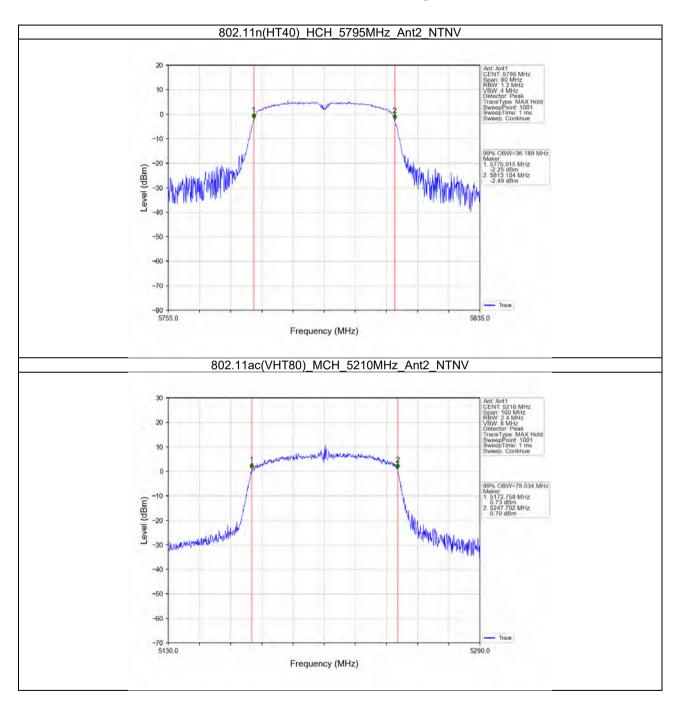
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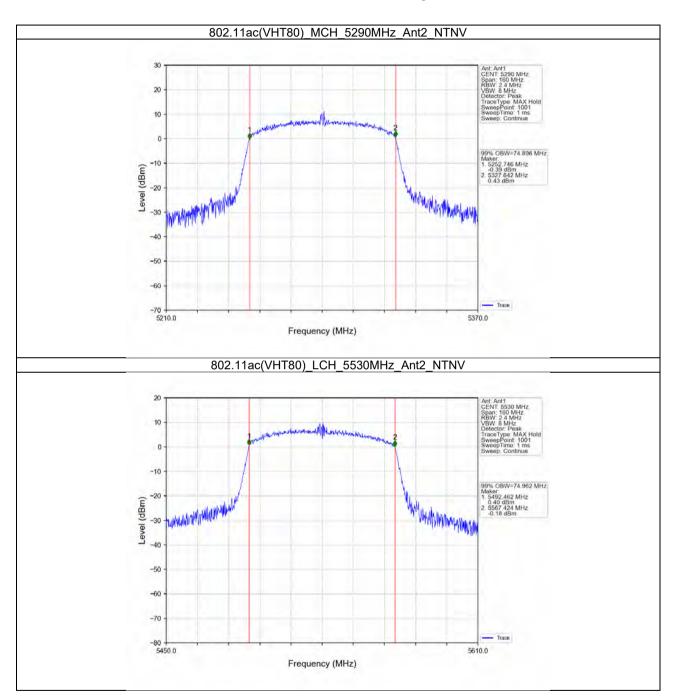
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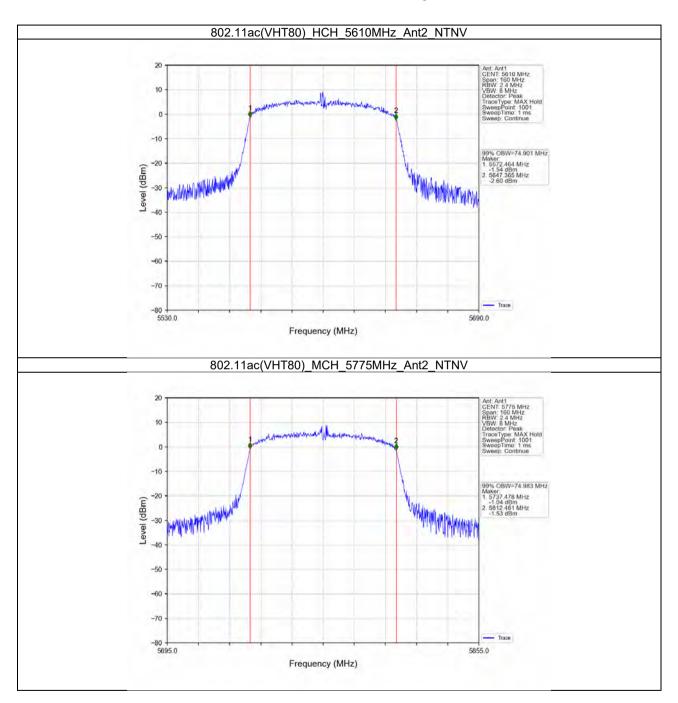
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6dB Bandwidth Test Result

Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)		Verdict
	Туре	(MHz)		Result	Limit	verdict
802.11a	SISO	5745	2	15.154	>=0.5	Pass
		5785	2	15.572	>=0.5	Pass
		5825	2	14.856	>=0.5	Pass
802.11n (HT20)	SISO	5745	2	15.147	>=0.5	Pass
		5785	2	15.162	>=0.5	Pass
		5825	2	15.163	>=0.5	Pass
802.11n (HT40)	SISO	5755	2	35.154	>=0.5	Pass
		5795	2	35.146	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	2	75.084	>=0.5	Pass

Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11n HT20/40 by referring to their higher output power.



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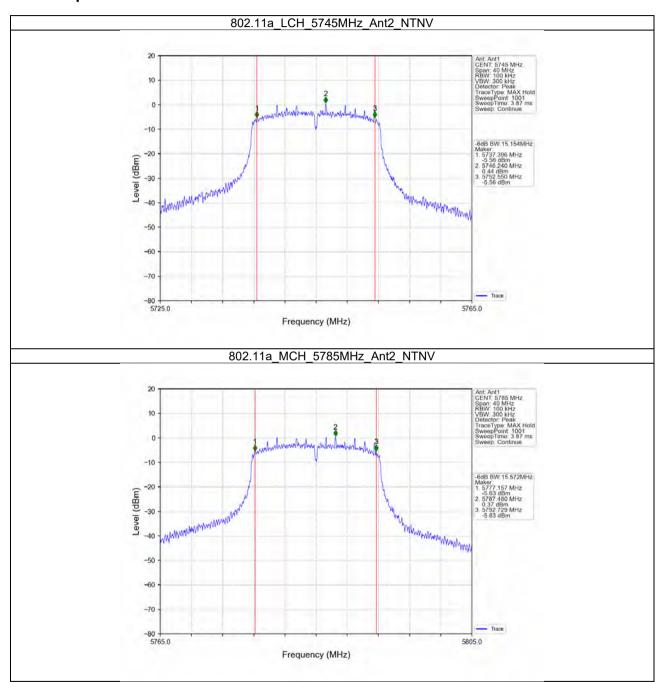


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Test Graphs





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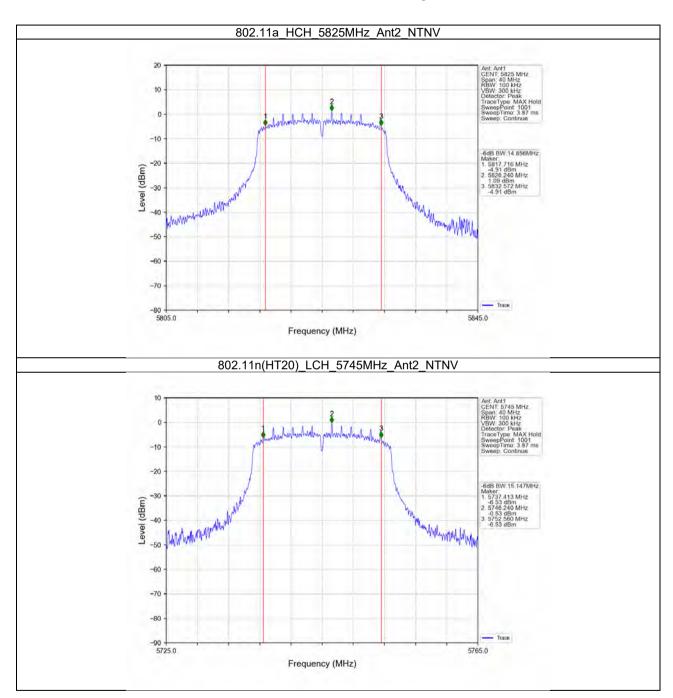
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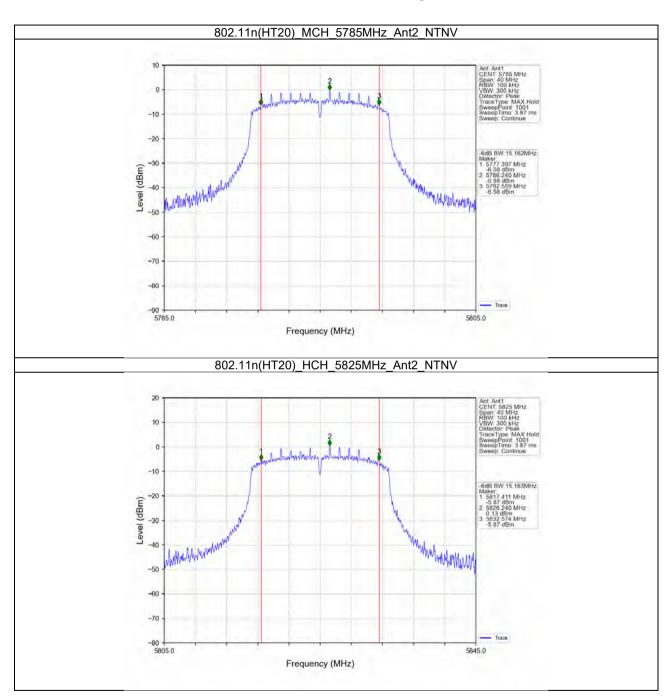
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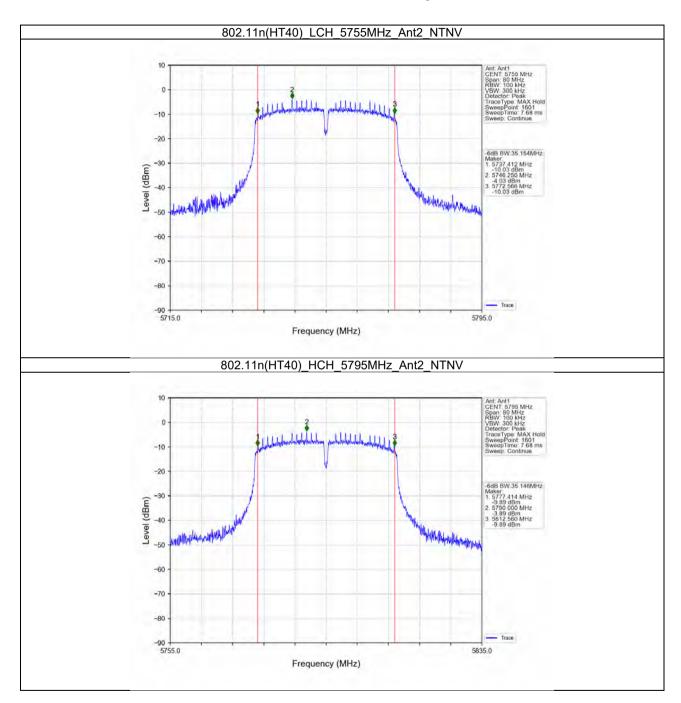
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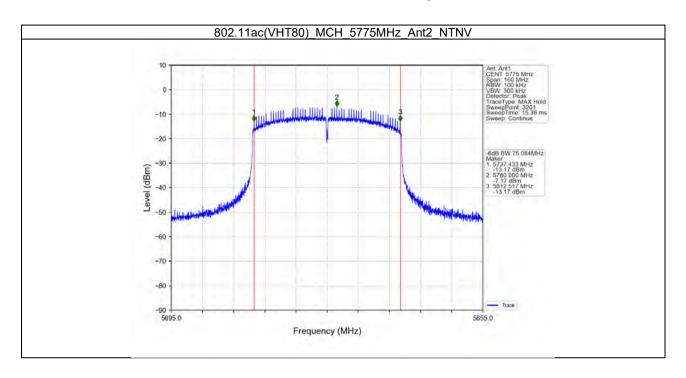
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Emission Bandwidth Test Result

Mode	TX	Frequency		26dB Bandwidth (MHz)		\
	Type	(MHz)	ANT	Result	Limit	Verdict
802.11a	SISO	5180	2	19.879	1	Pass
		5200	2	19.222	1	Pass
		5240	2	19.406	1	Pass
		5260	2	19.345	1	Pass
		5300	2	19.406	1	Pass
		5320	2	19.593	1	Pass
		5500	2	19.145	1	Pass
		5580	2	19.118	1	Pass
		5700	2	19.363	1	Pass
	SISO	5180	2	20.242	1	Pass
		5200	2	19.907	1	Pass
		5240	2	19.928	1	Pass
802.11n (HT20)		5260	2	19.798	1	Pass
		5300	2	19.924	1	Pass
		5320	2	20.341	1	Pass
		5500	2	20.053	1	Pass
		5580	2	19.953	1	Pass
		5700	2	20.227	1	Pass
802.11n (HT40)	SISO	5190	2	40.629	1	Pass
		5230	2	40.448	1	Pass
		5270	2	40.628	1	Pass
		5310	2	40.782	1	Pass
		5510	2	42.077	1	Pass
		5550	2	42.376	1	Pass
		5670	2	41.619	1	Pass
802.11ac (VHT80)	SISO	5210	2	81.964	1	Pass
		5290	2	81.590	1	Pass
		5530	2	81.584	1	Pass
		5610	2	81.795		Pass

Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11n HT20/40 by referring to their higher output power.



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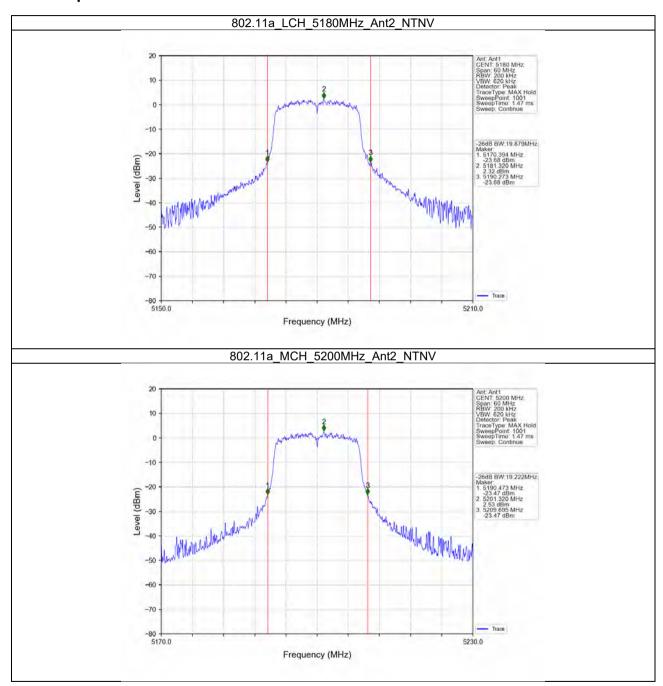


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Test Graphs





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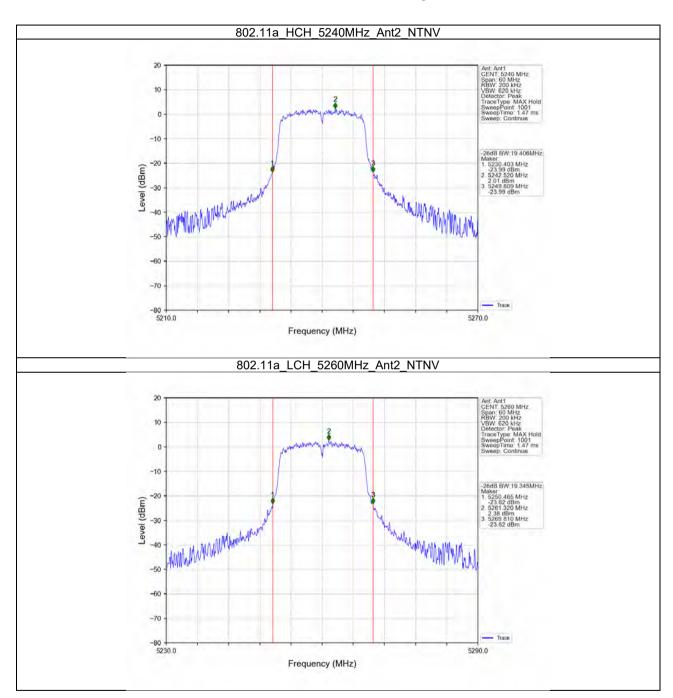
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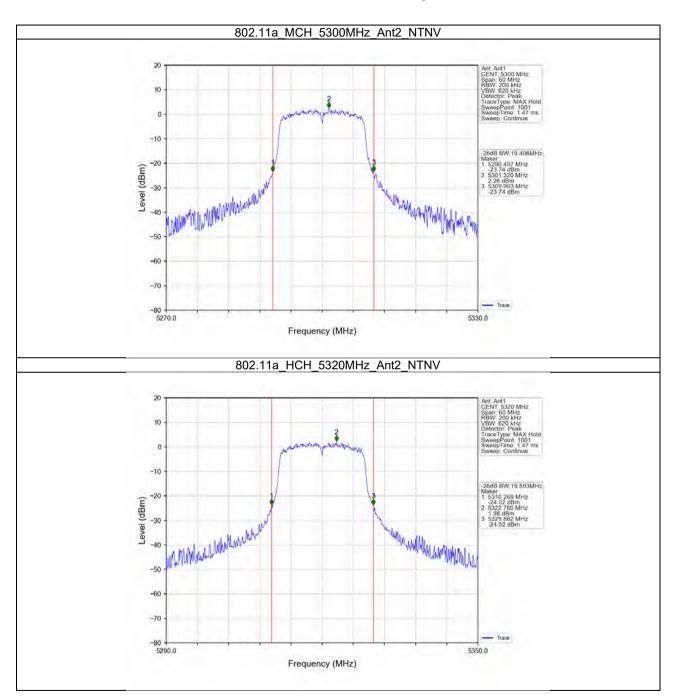
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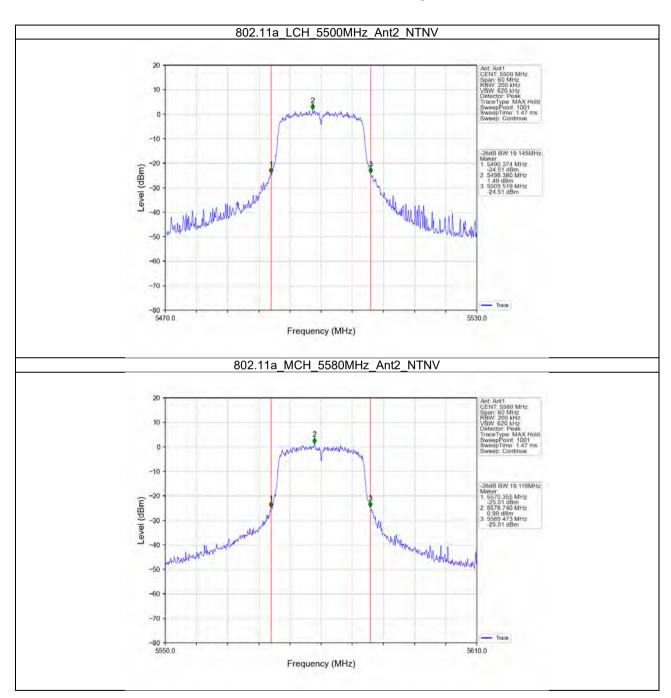
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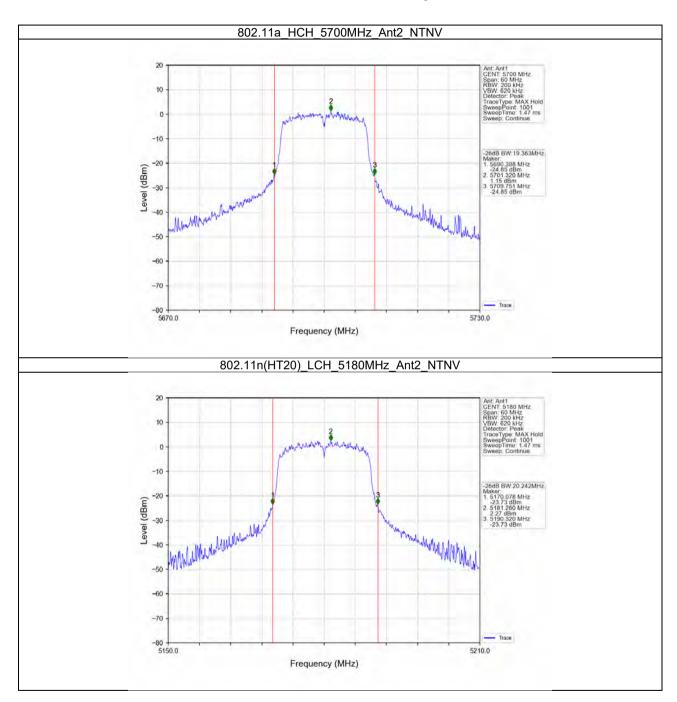
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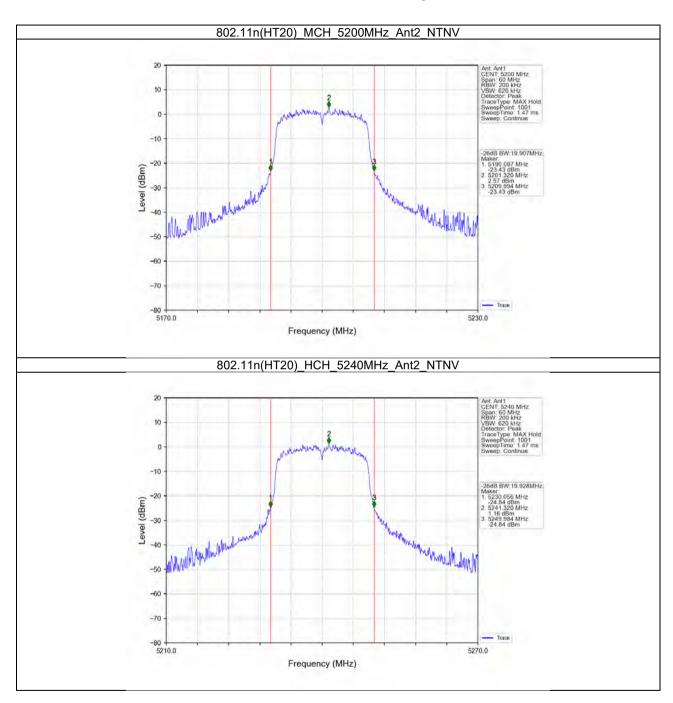
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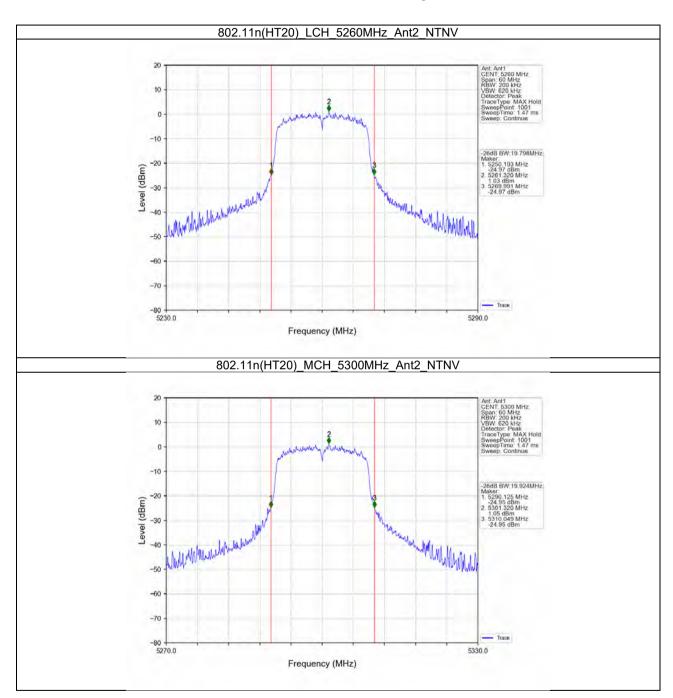
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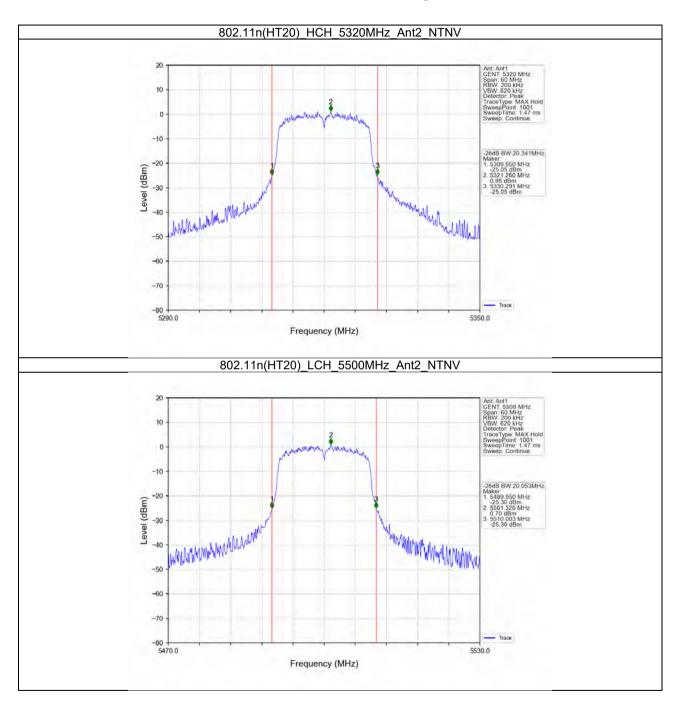
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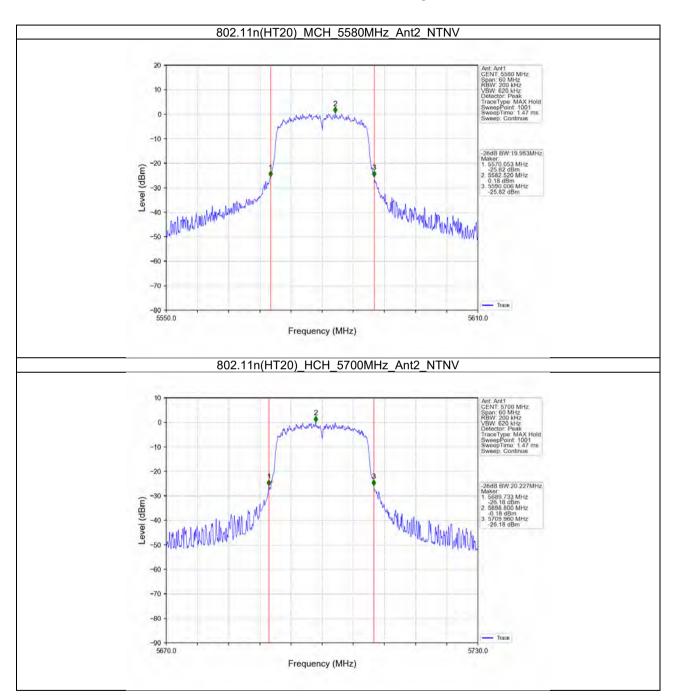
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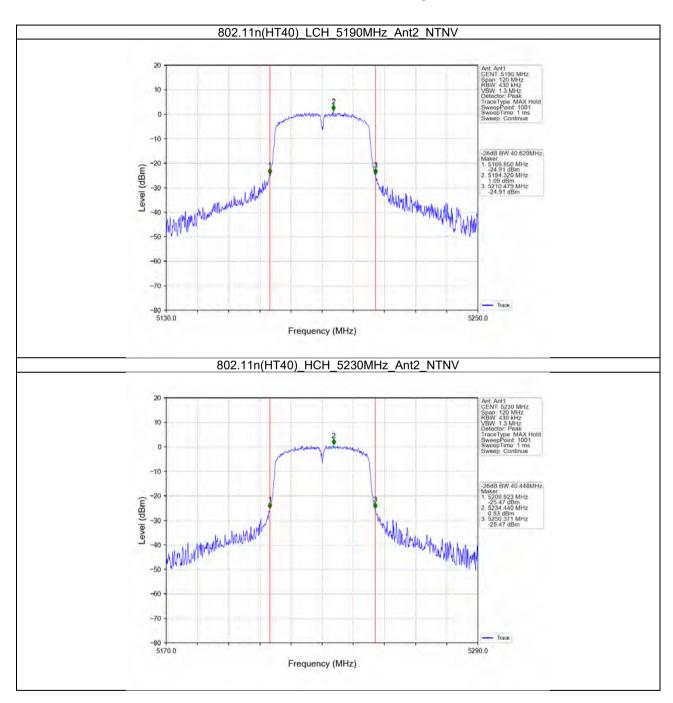
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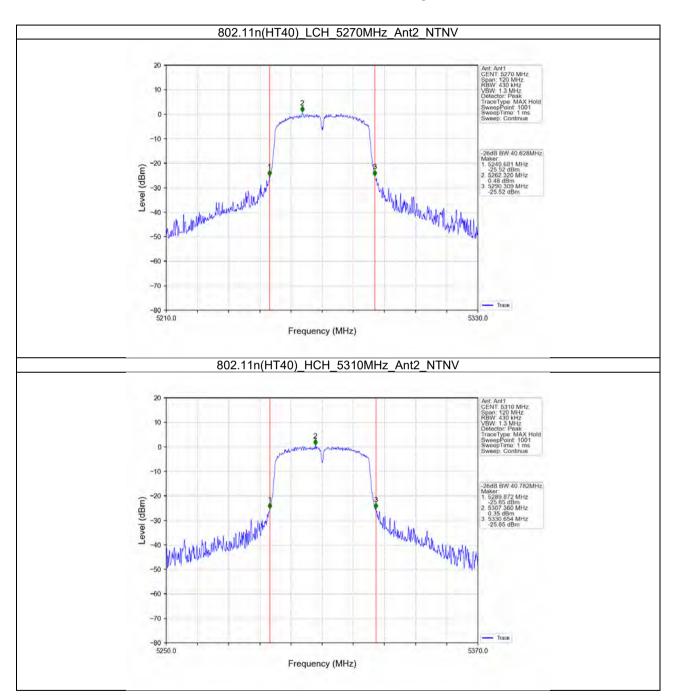
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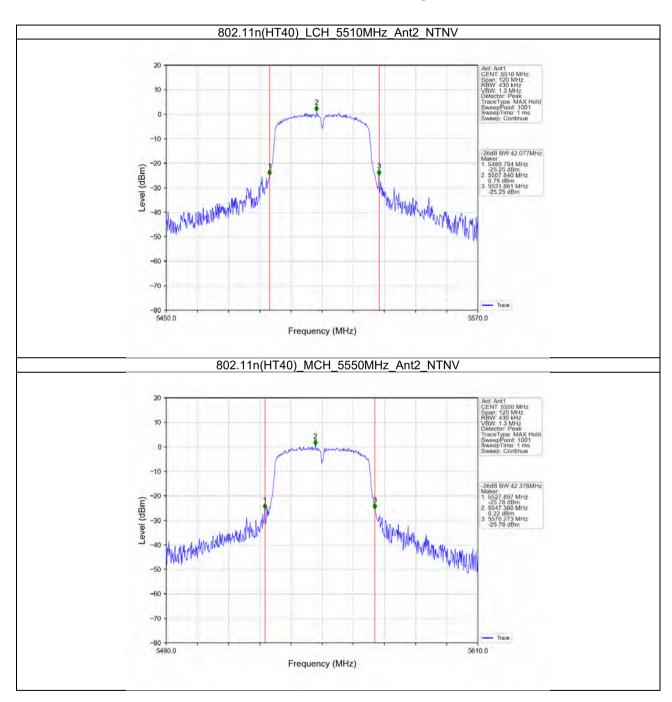
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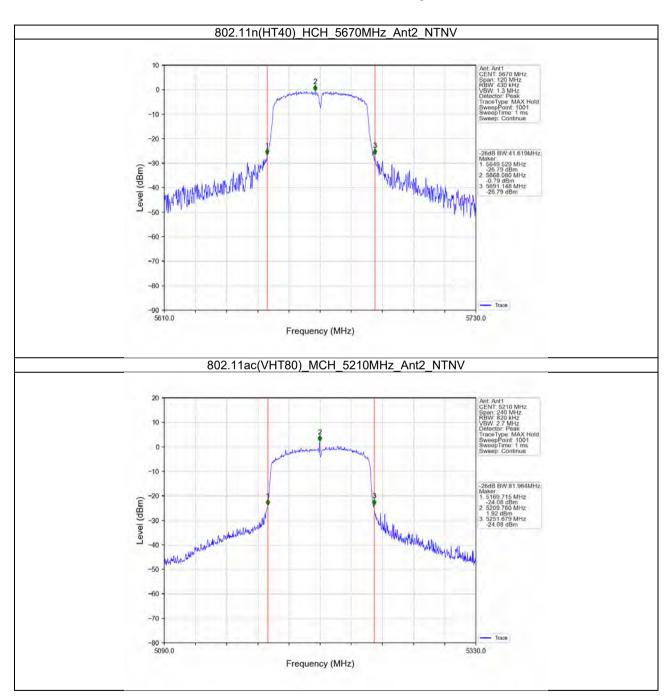
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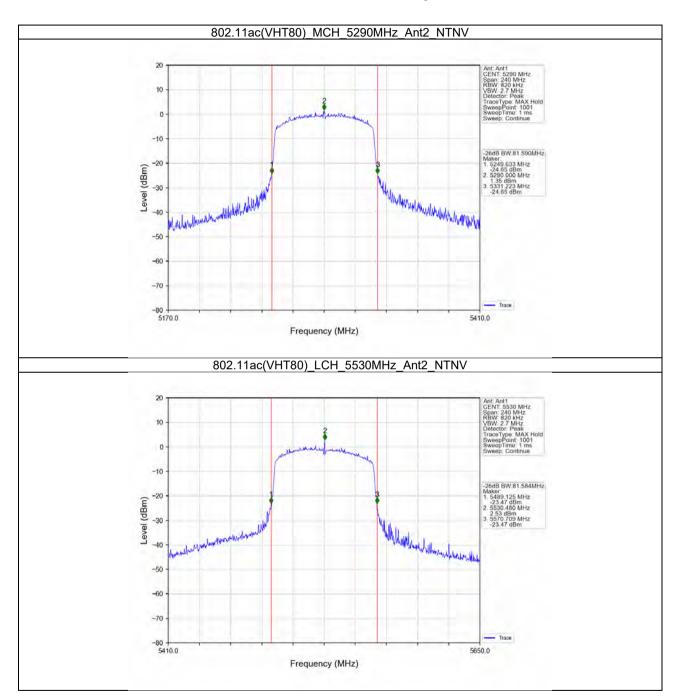
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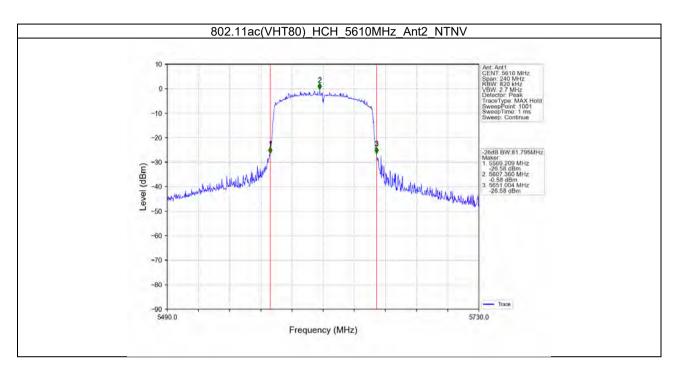
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Maximum conducted output power Test Result

Mode	TX	Frequency	Maximum Average Conducted Output Power (dBm)		Vardiet
	Type	(MHz)	ANT2	Limit	Verdict
802.11a		5180	11.29	<=30	Pass
		5200	11.51	<=30	Pass
		5240	11.40	<=30	Pass
		5260	11.33	<=23.87	Pass
	SISO	5300	11.25	<=23.88	Pass
		5320	11.20	<=23.92	Pass
		5500	10.90	<=23.82	Pass
		5580	10.58	<=23.81	Pass
		5700	10.46	<=23.87	Pass
		5745	10.58	<=30	Pass
		5785	10.06	<=30	Pass
		5825	11.09	<=30	Pass
	SISO	5180	11.38	<=30	Pass
		5200	11.34	<=30	Pass
		5240	10.05	<=30	Pass
		5260	9.82	<=23.97	Pass
		5300	9.85	<=23.98	Pass
802.11n (HT20)		5320	10.10	<=23.98	Pass
		5500	9.67	<=23.98	Pass
		5580	9.37	<=23.98	Pass
		5700	9.07	<=23.98	Pass
		5745	9.06	<=30	Pass
		5785	8.99	<=30	Pass
		5825	9.91	<=30	Pass
	SISO	5190	9.80	<=30	Pass
		5230	9.81	<=30	Pass
		5270	9.73	<=23.98	Pass
802.11n (HT40)		5310	9.74	<=23.98	Pass
		5510	9.53	<=23.98	Pass
		5550	9.23	<=23.98	Pass
		5670	8.72	<=23.98	Pass
		5755	8.84	<=30	Pass
		5795	9.12	<=30	Pass
802.11ac (VHT80)	SISO	5210	9.91	<=30	Pass
		5290	9.75	<=23.98	Pass
		5530	9.47	<=23.98	Pass
		5610	8.29	<=23.98	Pass
		5775	8.45	<=30	Pass

Note1: Antenna Gain:

5150MHz to 5250MHz: 3.59 dBi(Ant2); 5250MHz to 5350MHz: 4.08 dBi(Ant2); 5470MHz to 5725MHz: 4.33 dBi(Ant2); 5725MHz to 5850MHz: 4.90 dBi(Ant2);

Remark

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11n HT20/40 by referring to their higher output power.



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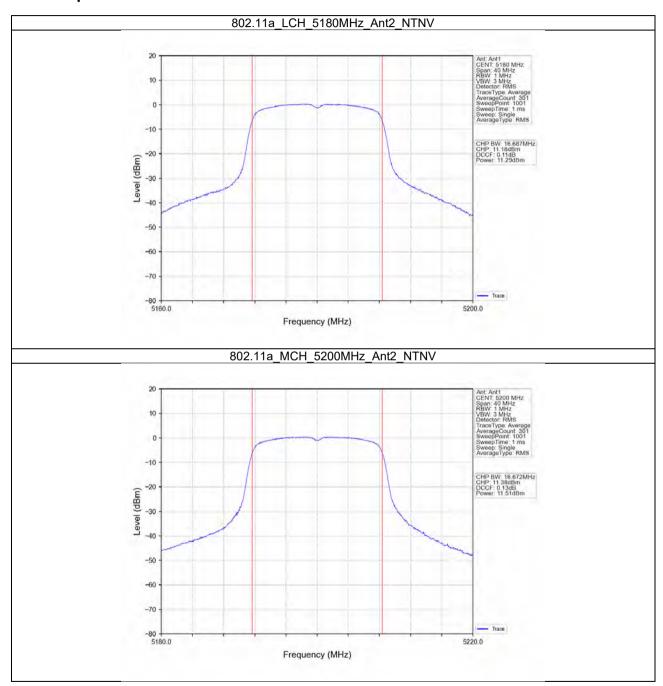


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Test Graphs





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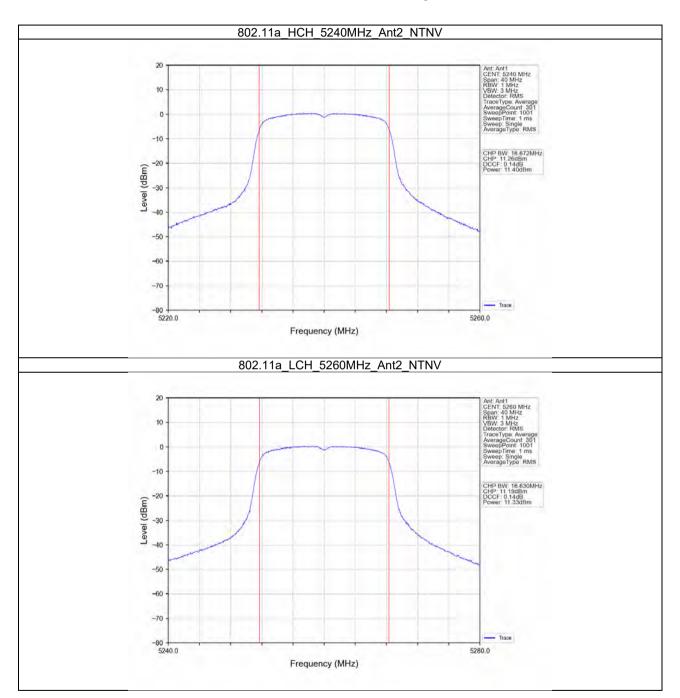
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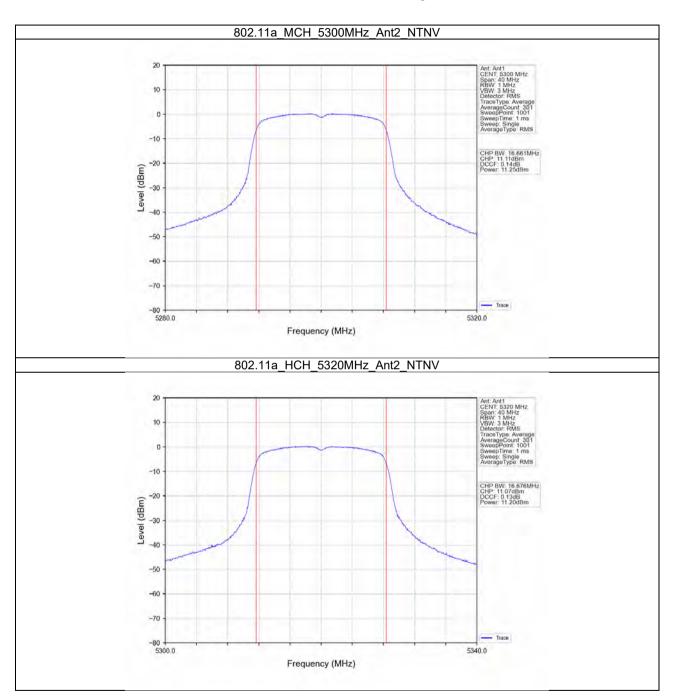
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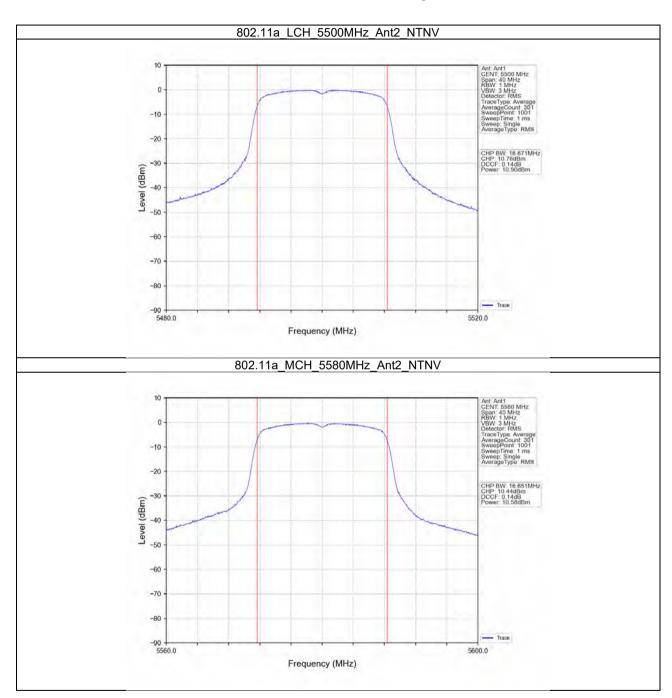
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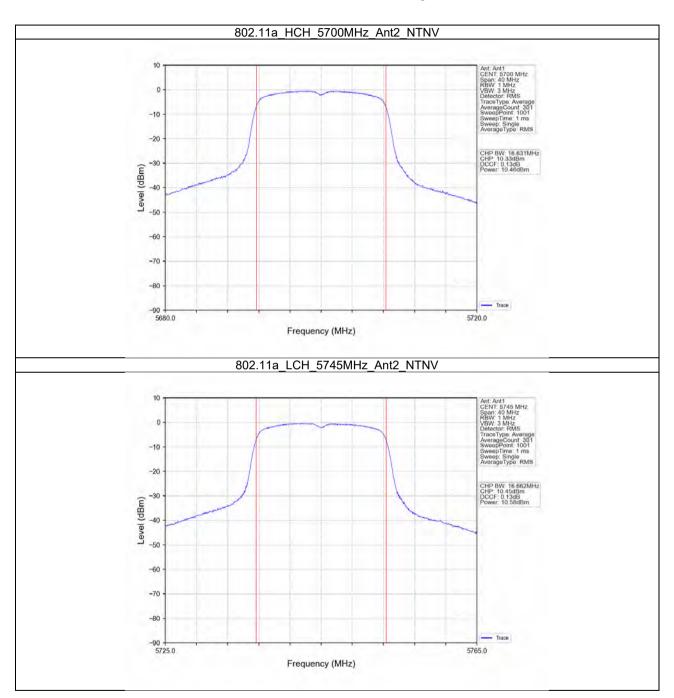
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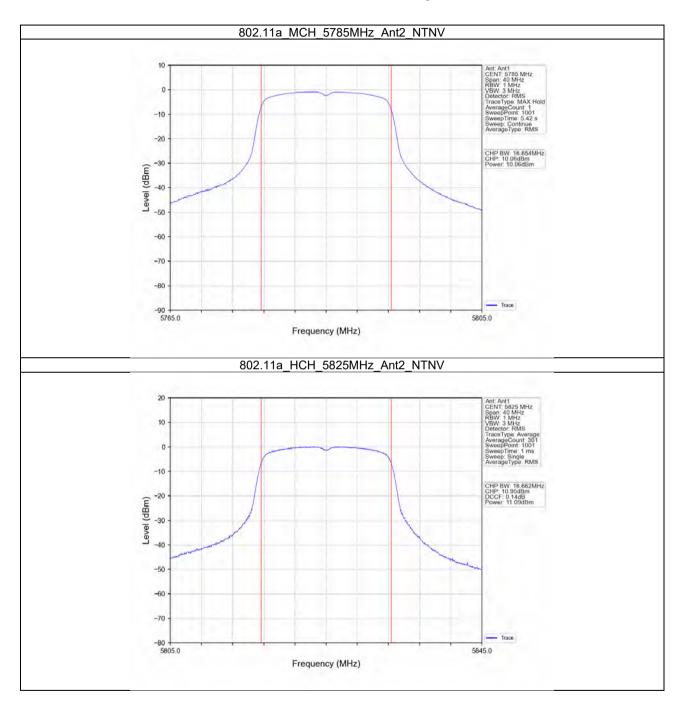
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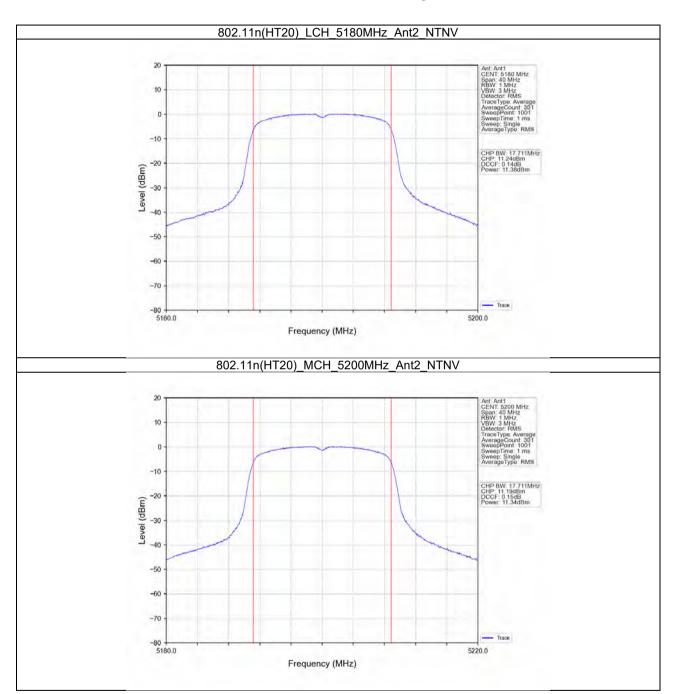
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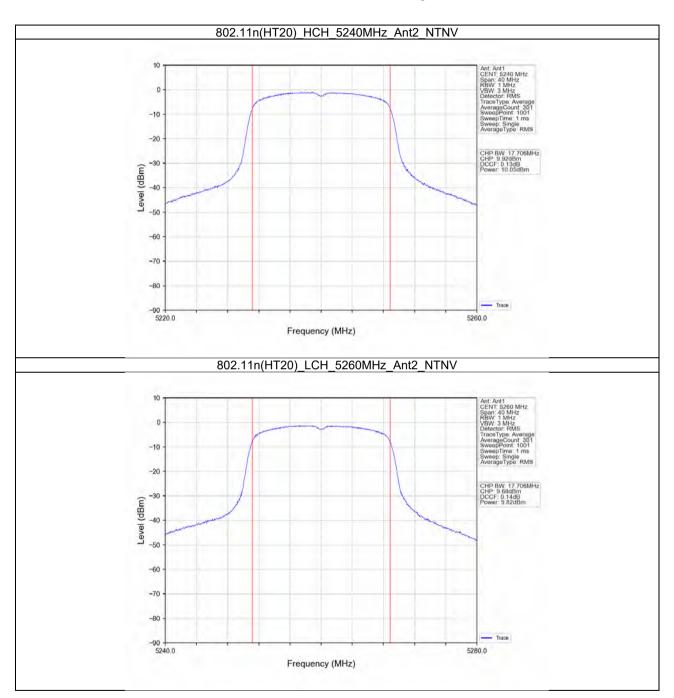
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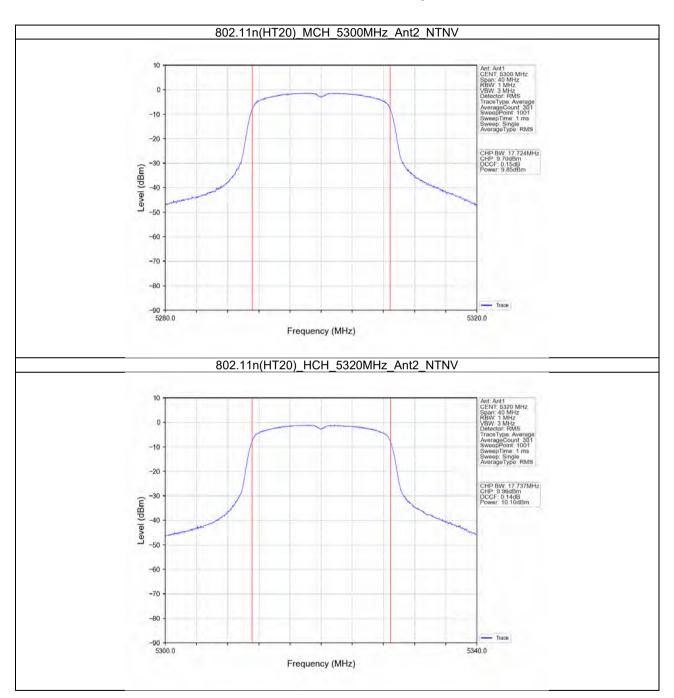
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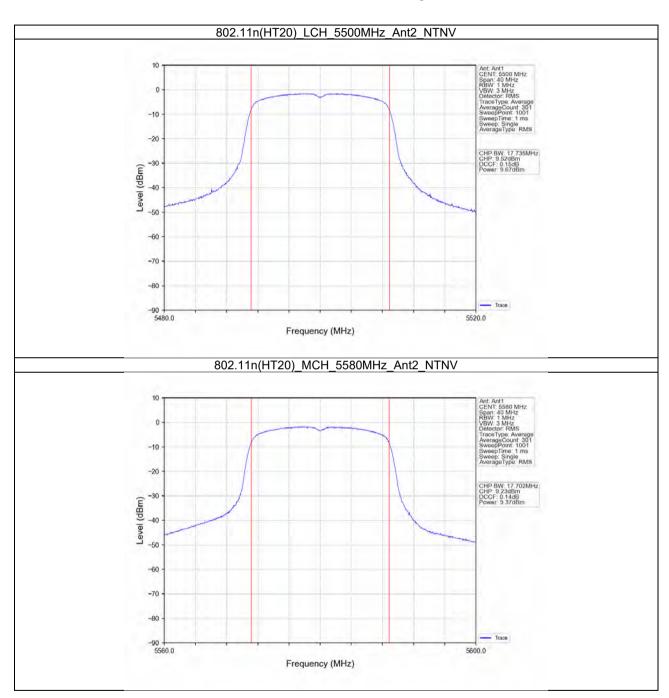
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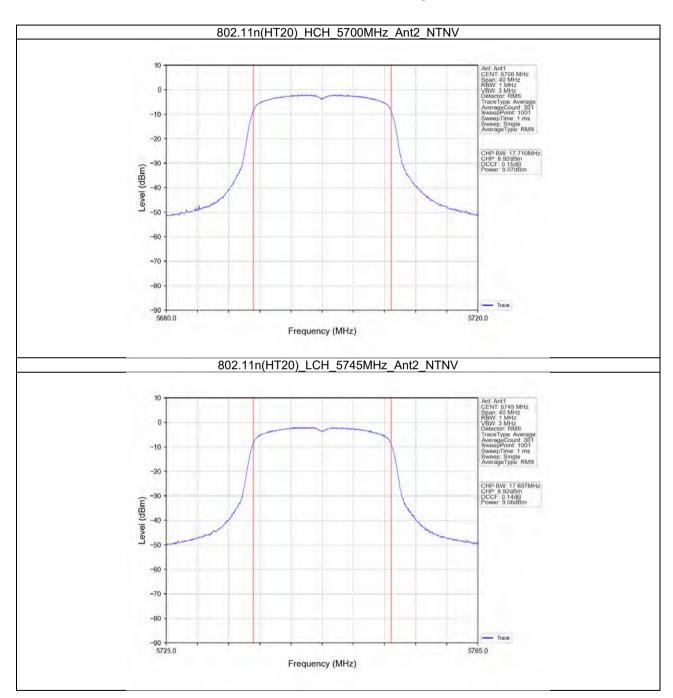
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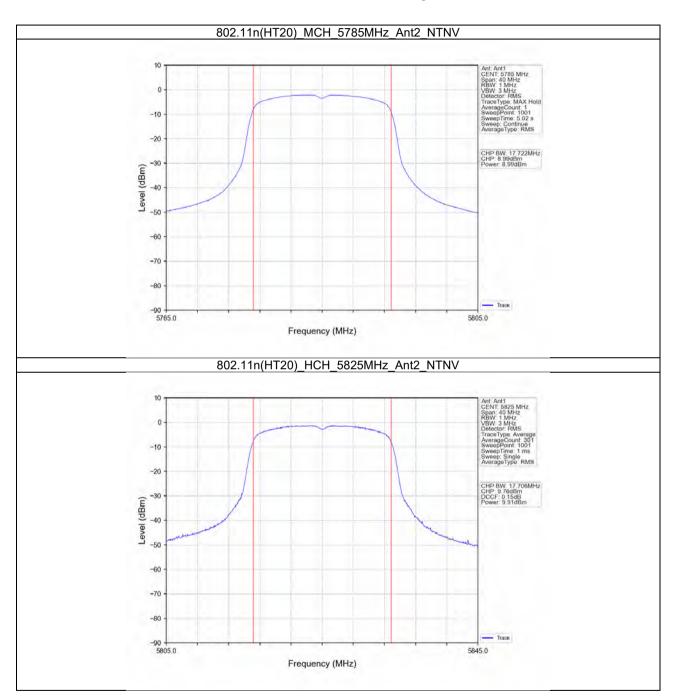
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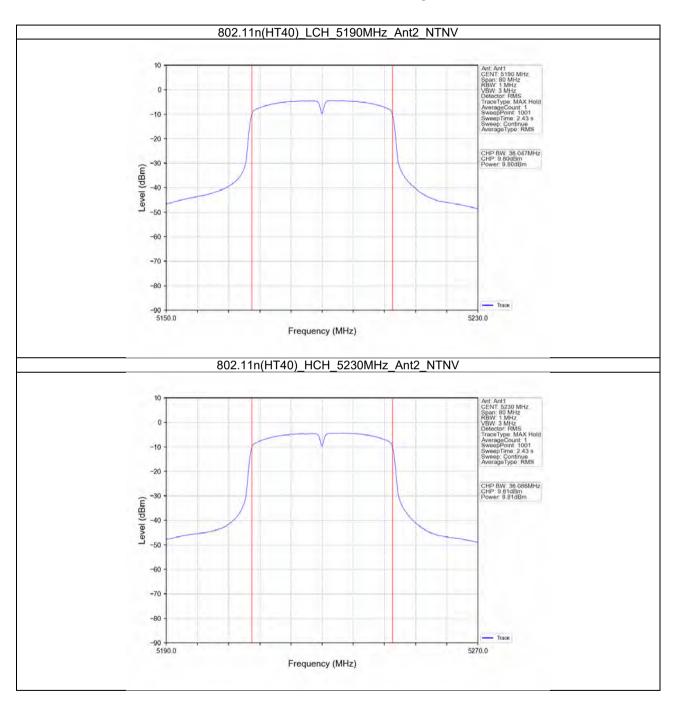
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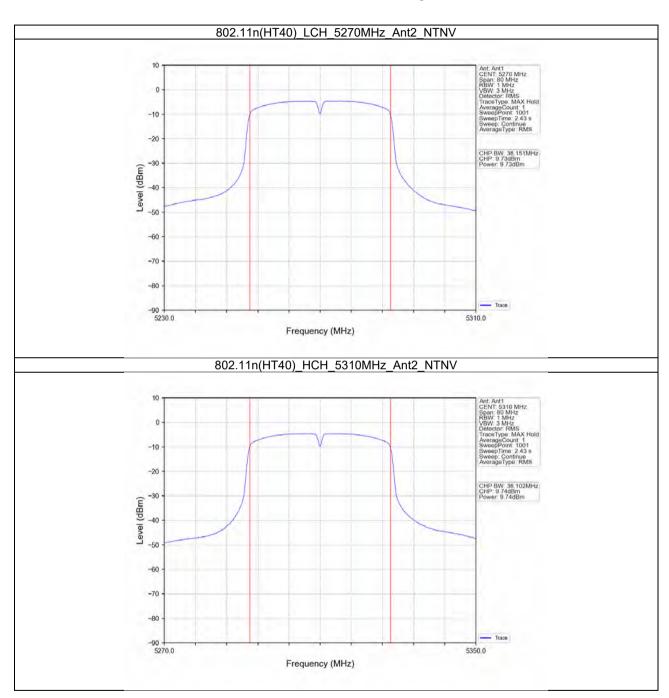
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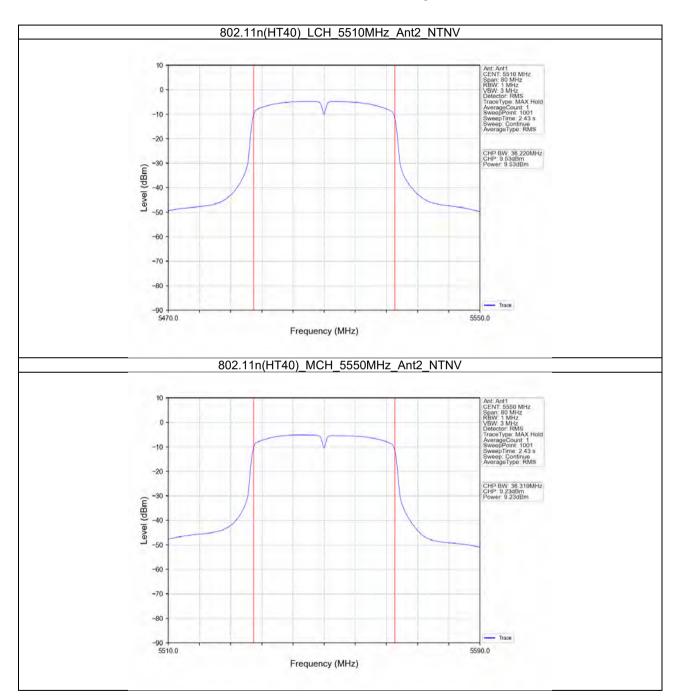
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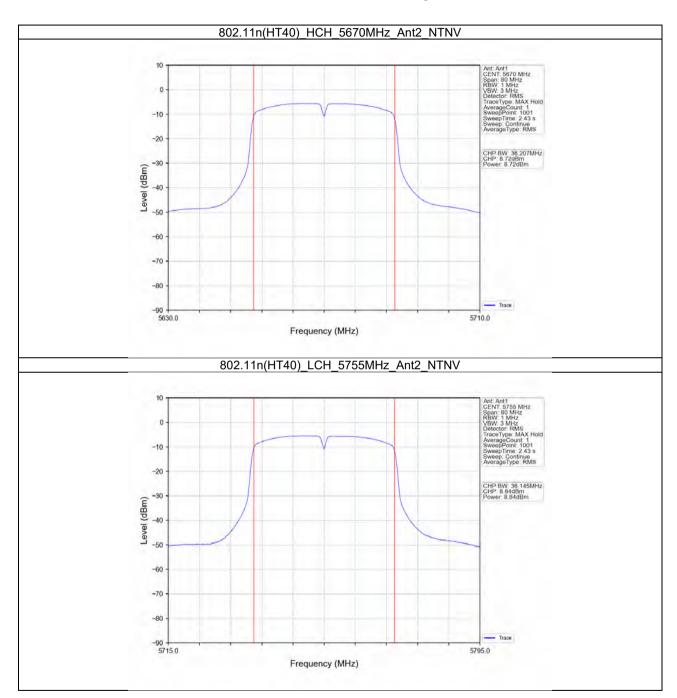
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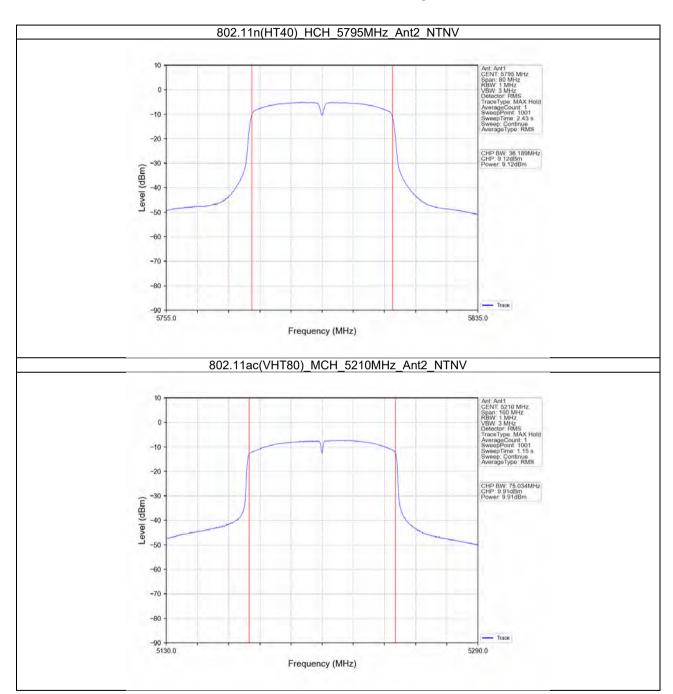
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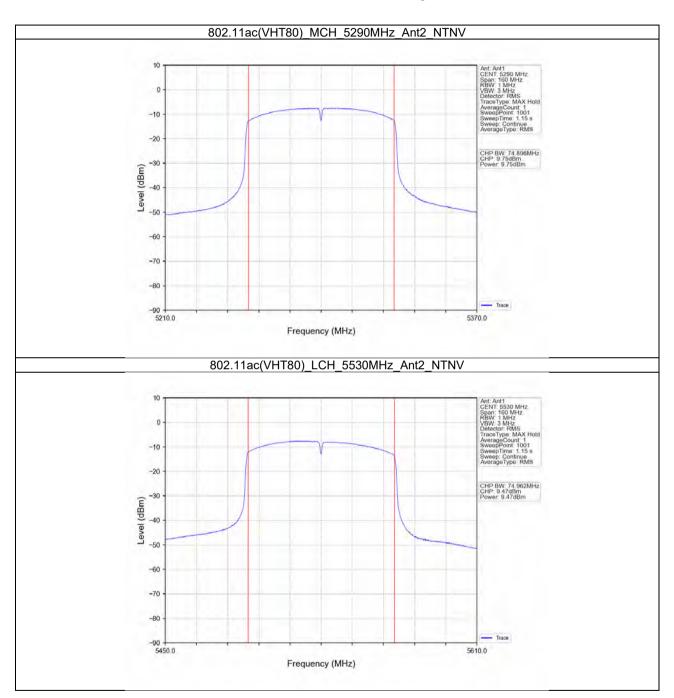
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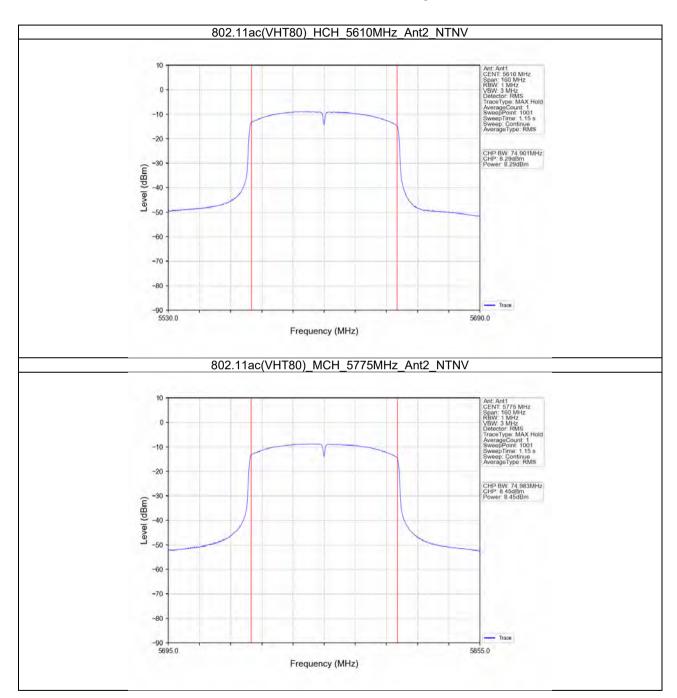
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Maximum power spectral density Test Result

Mada	TX	Frequency	Maximum PSD (dBm/MHz)		Mondiat
Mode	Type	(MHz)	ANT2	Limit	Verdict
	siso	5180	0.44	<=17	Pass
		5200	0.83	<=17	Pass
		5240	0.67	<=17	Pass
		5260	0.72	<=11	Pass
802.11a		5300	0.39	<=11	Pass
		5320	0.38	<=11	Pass
		5500	0.13	<=11	Pass
		5580	-0.17	<=11	Pass
		5700	-0.27	<=11	Pass
	SISO	5180	0.43	<=17	Pass
		5200	0.53	<=17	Pass
		5240	-0.84	<=17	Pass
000 44=		5260	-1.05	<=11	Pass
802.11n (HT20)		5300	-1.09	<=11	Pass
(П120)		5320	-0.84	<=11	Pass
		5500	-1.22	<=11	Pass
		5580	-1.54	<=11	Pass
		5700	-1.80	<=11	Pass
	SISO	5190	-4.35	<=17	Pass
		5230	-4.31	<=17	Pass
802.11n		5270	-4.54	<=11	Pass
(HT40)		5310	-4.54	<=11	Pass
(H140)		5510	-4.66	<=11	Pass
		5550	-5.04	<=11	Pass
		5670	-5.54	<=11	Pass
	SISO	5210	-7.29	<=17	Pass
802.11ac		5290	-7.40	<=11	Pass
(VHT80)		5530	-7.63	<=11	Pass
		5610	-8.93	<=11	Pass

Note1: Antenna Gain:

5150MHz to 5250MHz: 3.59 dBi(Ant2); 5250MHz to 5350MHz: 4.08 dBi(Ant2); 5470MHz to 5725MHz: 4.33 dBi(Ant2); 5725MHz to 5850MHz: 4.90 dBi(Ant2);

Remark

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11n HT20/40 by referring to their higher output power.



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**Attention: To check the authersicity of testing inspection report & certificate, please contact us at telephone: (85-75) 8307 1443.

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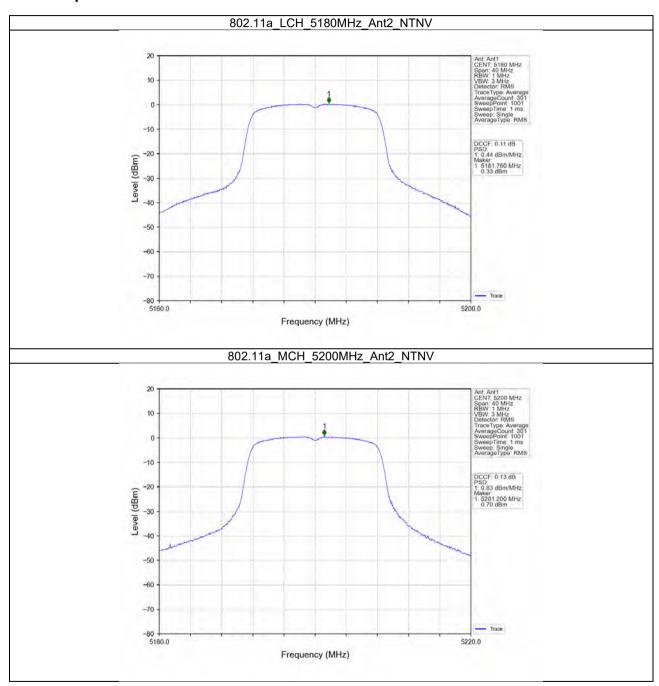


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Test Graphs





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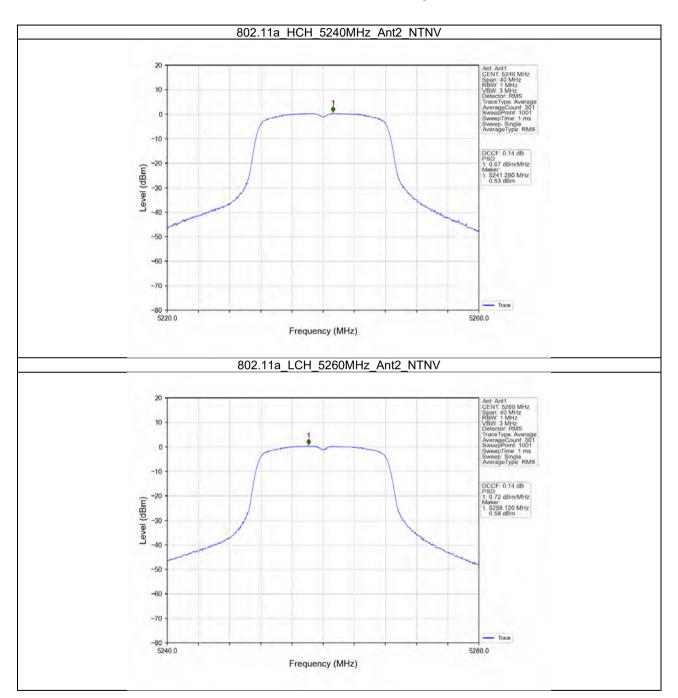
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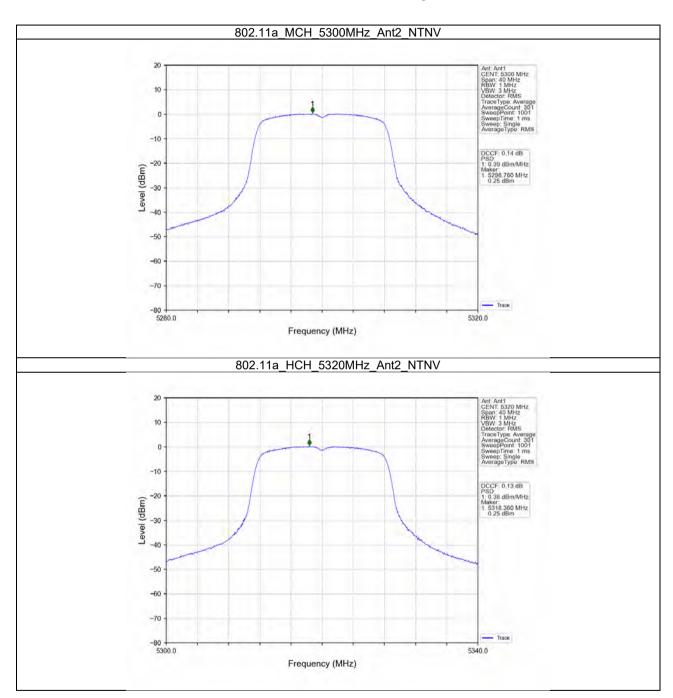
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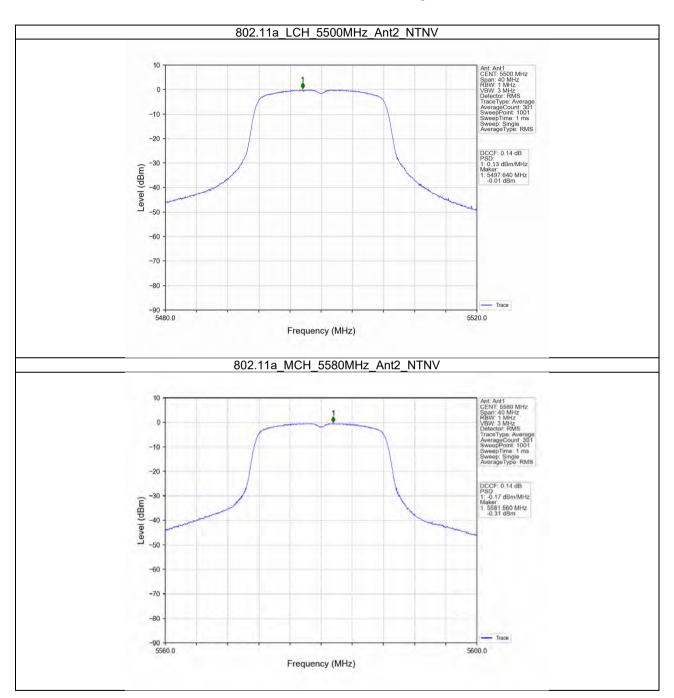
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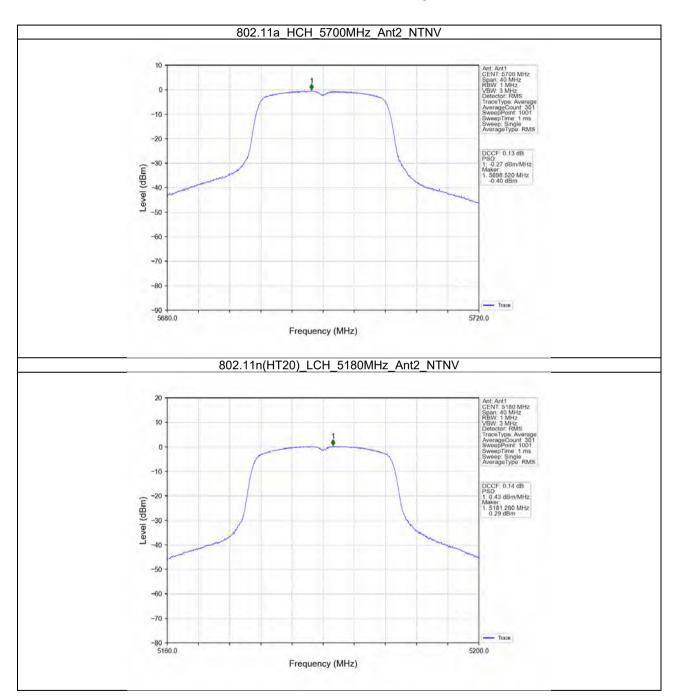
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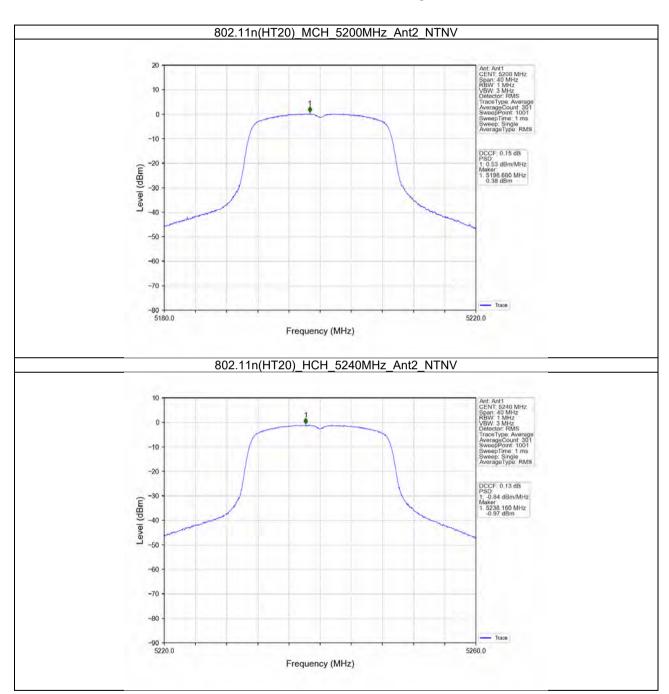
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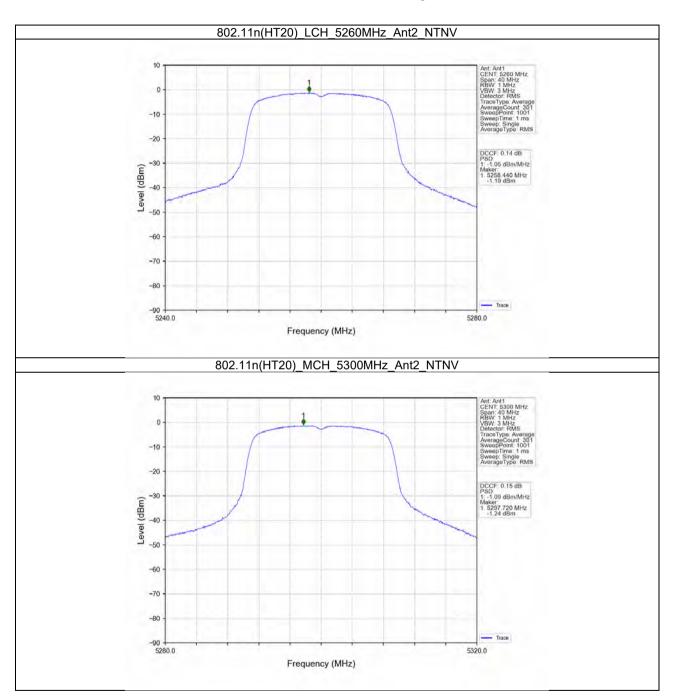
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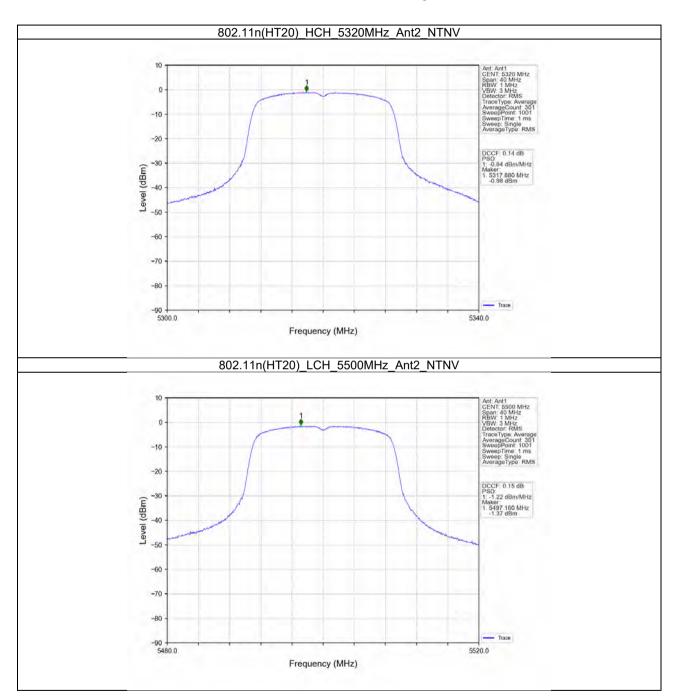
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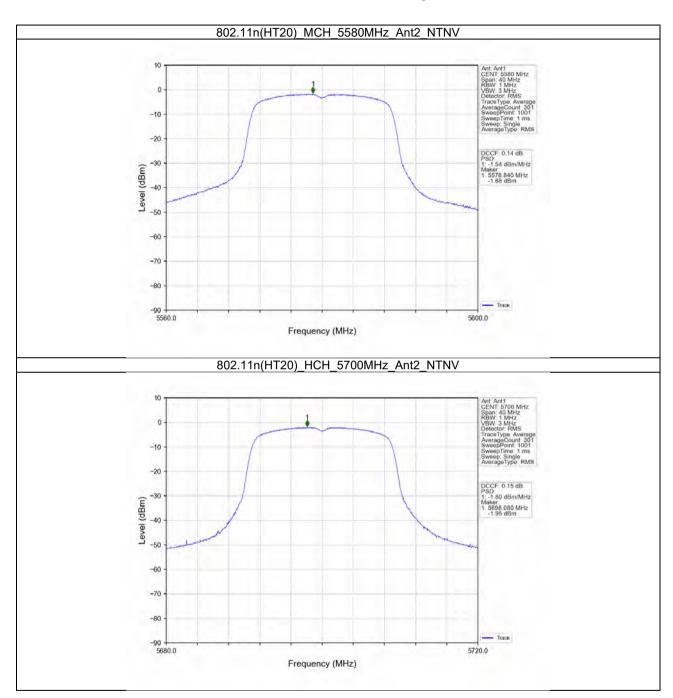
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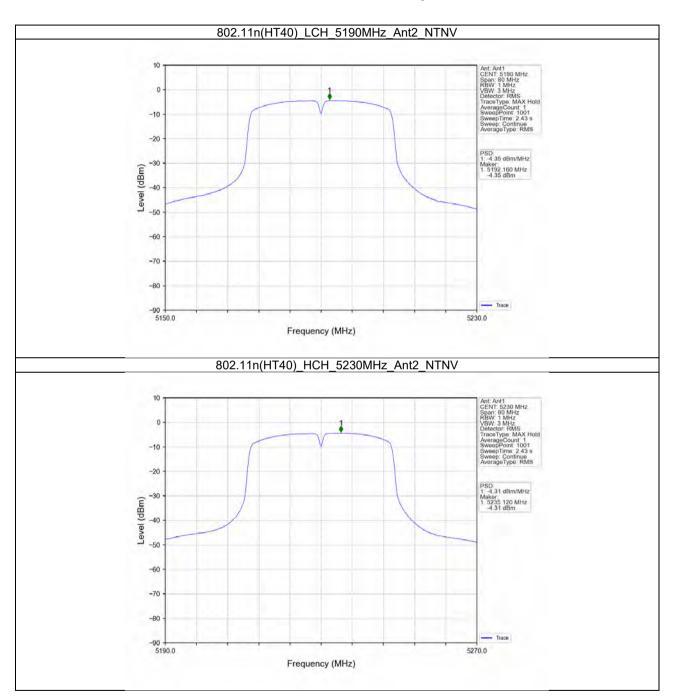
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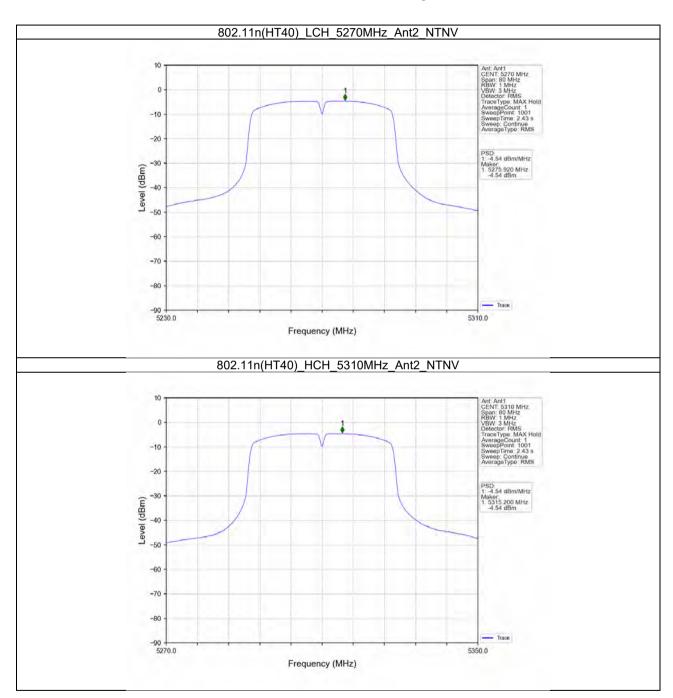
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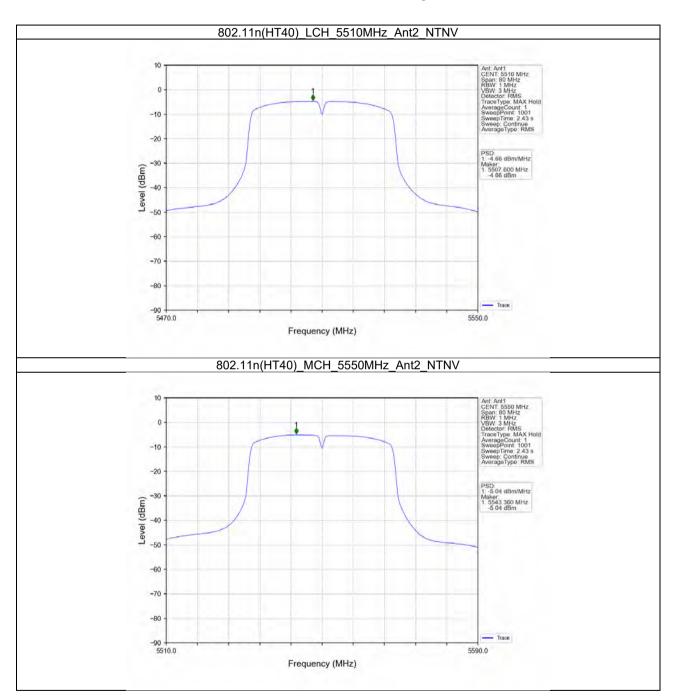
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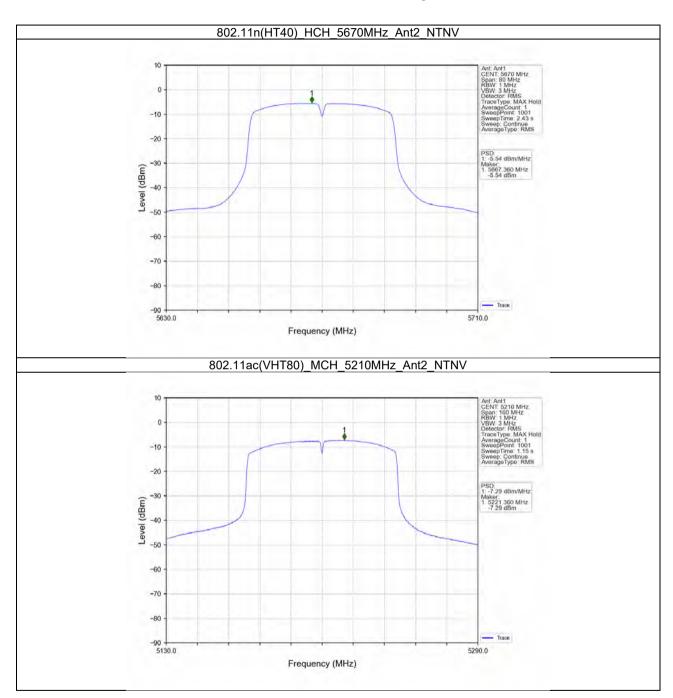
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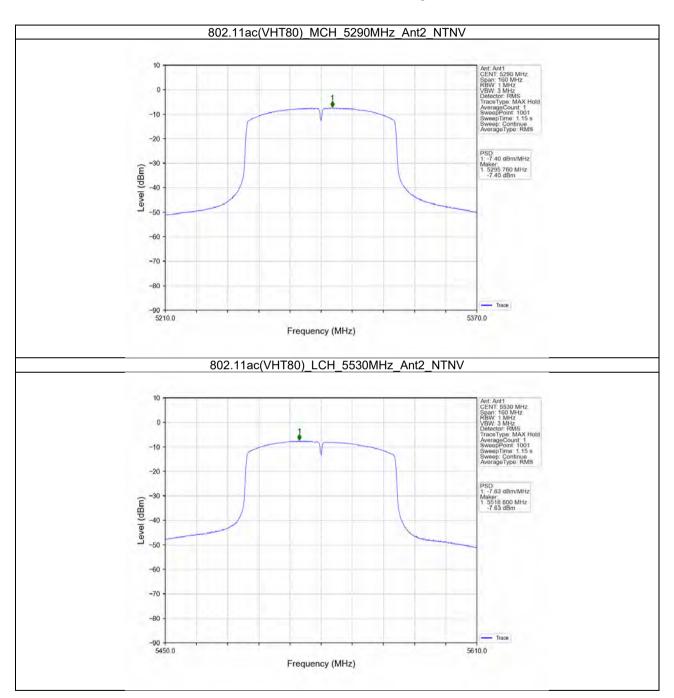
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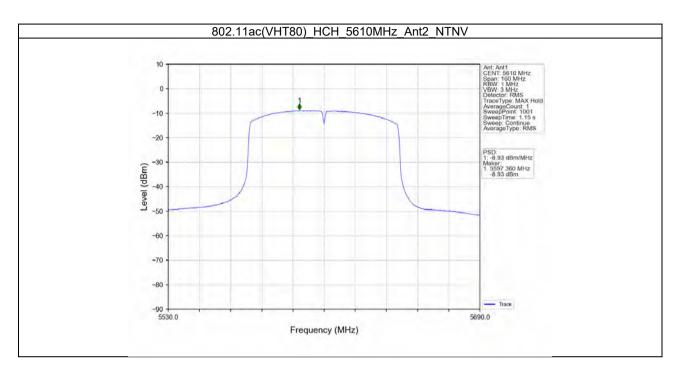
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Power Spectral Density - Band III Test Result

Mode	TX	Frequency	Maximum PSD	Vardiet				
	Type	(MHz)	ANT2	Limit	Verdict			
802.11a		5745	-2.92	<=30	Pass			
	SISO	5785	-3.10	<=30	Pass			
		5825	-2.59	<=30	Pass			
802.11n (HT20)	SISO	5745	-4.82	<=30	Pass			
		5785	-5.01	<=30	Pass			
		5825	-3.86	<=30	Pass			
802.11n	SISO	5755	-8.27	<=30	Pass			
(HT40)	3130	5795	-8.01	<=30	Pass			
802.11ac (VHT80) SISO		5775	-11.48	<=30	Pass			
Note1: Antenna Gain: Ant2: 4.90dBi;								

Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11n HT20/40 by referring to their higher output power.



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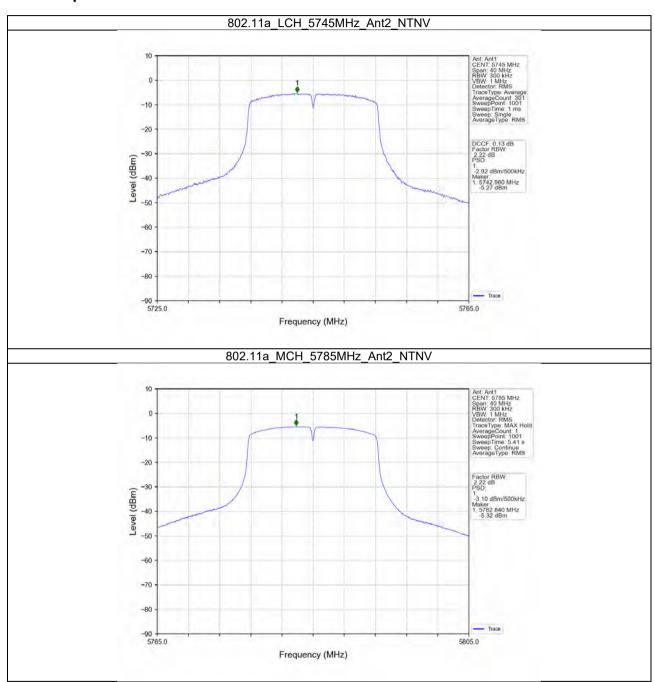


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Test Graphs





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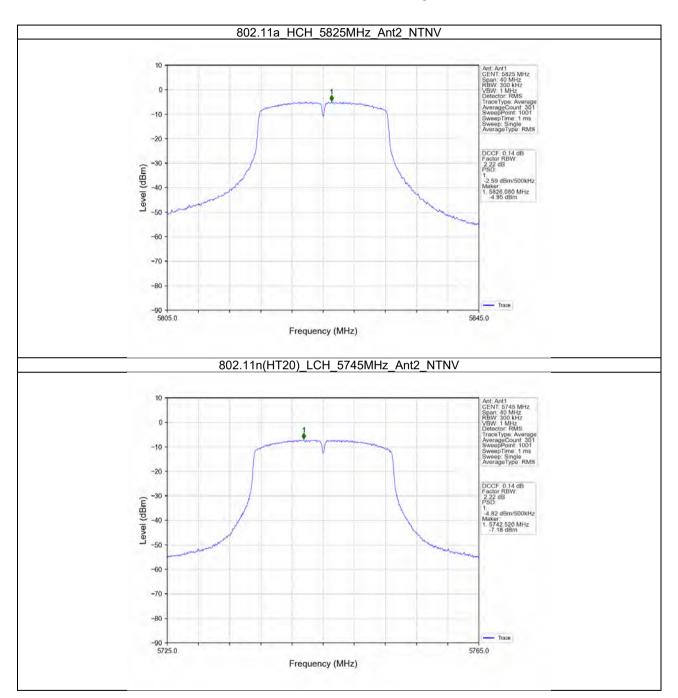
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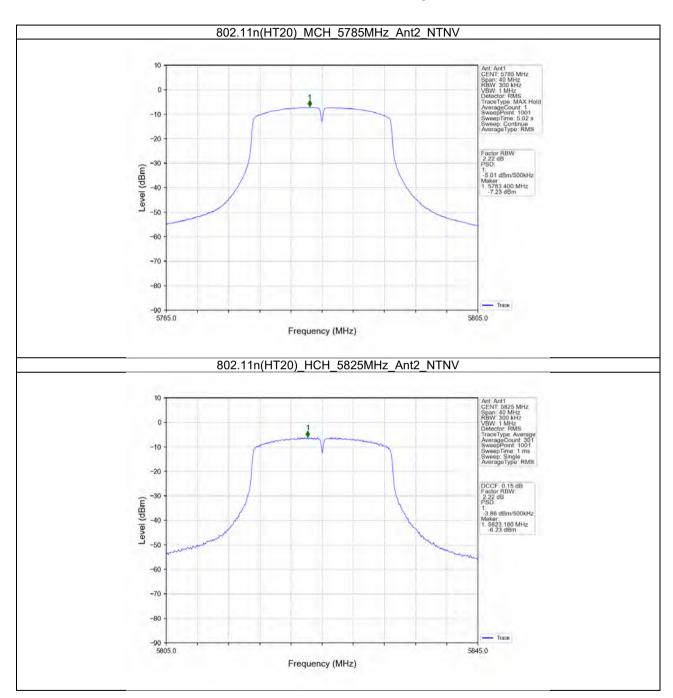
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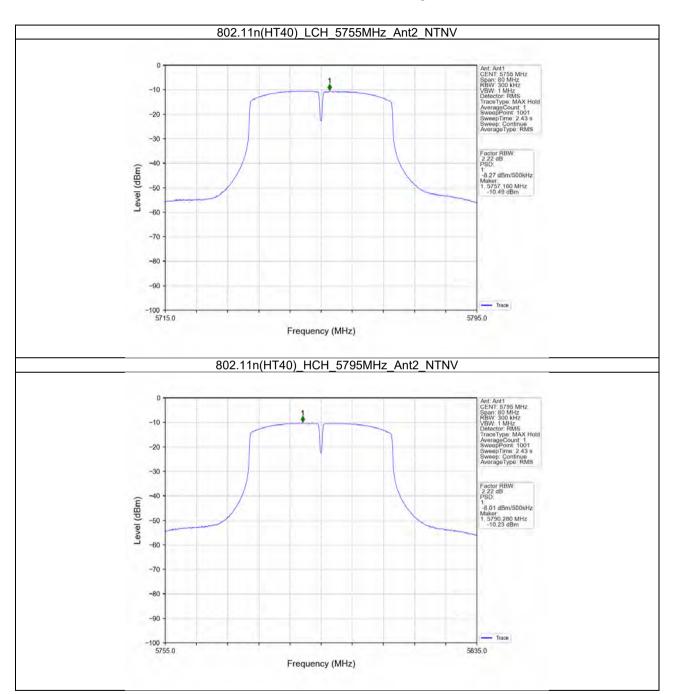
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Signal Calibration SC

Test Result

			Е	Band II-A			
Mode	Bandwidth	Frequency	Radar Signal		Signal Calibration		Verdict
	(MHz)	(MHz)	Type	Trial Id	Result	Limit	Verdict
802.11ac (VHT80)	80	5290	0	0	Refer To Test Graph		Pass
			1	0	Refer To Test Graph		Pass
			2	0	Refer To Test Graph		Pass
			3	0	Refer To Test Graph		Pass
			4	0	Refer To Test Graph		Pass
			5	0	Refer To Test Graph		Pass
			6	0	Refer To Test Graph		Pass



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