

Report No.: SEWM2307000261RG06

Rev.: 01

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TEST REPORT

Application No.: SEWM2307000261RG

Applicant: Xiaomi Communications Co., Ltd.

Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing,

China, 100085

Manufacturer: Xiaomi Communications Co., Ltd.

Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing,

China, 100085

EUT Description: Mobile Phone **Model No.:** 2312DRA50G

Trade Mark: Redmi

FCC ID: 2AFZZRA50G

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

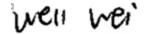
Date of Receipt: 2023/07/31

Date of Test: 2023/08/05 to 2023/08/22

Date of Issue: 2023/08/25

Test Result : PASS *

Authorized Signature:



Well Wei Wireless Laboratory Manager



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00 t (86–512) 62992980 t (86–512) 62992980

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



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/08/25		Original

Prepared By	(Ives Cheng) / Test Engineer
Checked By	(Stone Gu) / Reviewer



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2 Test Summary

Z rest Summary						
Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result	
Antenna Requirement		15.203/15.407(a)		Clause 4.1	PASS	
26dB	Band I	15.407(a)(1)		Clause	For	
Emission	Band II-A	15.407(a)(2)	No limit.	Clause 4.5	Report	
Bandwidth	Band II-C	15.407(a)(2)		4.5	Purpose	
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS	
99%	Band I				For	
Occupied	Band II-A	KDB 789033	No limit.	Clause	Report	
Bandwidth	Band II-C	D02§ D	NO IIIIIL.	4.7	Purpose	
Danuwiuin	Band III				Fulpose	
	Band I				For	
Duty Cycle	Band II-A		No limit.	Clause	Report	
Duty Cycle	Band II-C		NO IIITIIL.	4.3		
	Band III				Purpose	
Maximum	Band I	15.407(a)(iv)	< 250mW			
Maximum Conducted	Band II-A	15.407(a)(2)	<min{250mw,11dbm+10*lg(ebw)}< td=""><td>Clause</td><td>PASS</td></min{250mw,11dbm+10*lg(ebw)}<>	Clause	PASS	
Output Power	Band II-C	15.407(a)(2)	\ \text{Vill(25011)}\	4.4	FAGG	
Output Fower	Band III	15.407(a)(3)	< 1W]		
Maximum	Band I	15.407(a)(iv)	<11dBm/MHz			
Power Band II- Spectral Band II-		15.407(a)(2)	<11dBm/MHz	Clause 4.8	PASS	
Density	Band III	15.407(a)(3)	<30dBm/500KHz	1		
	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	
	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	
	Band III	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP) F≥1GHz &out-restricted:(PK)		PASS	



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			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, and edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).		
Restricted bands around fundamental frequency	Band II-A Band II-C Band III	15.407(b) 15.205/15.209		Clause 4.10	PASS
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207		Clause 4.2	PASS
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 4.11	PASS
Frequency Stability	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

Note 1:

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



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3 General Information

3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, E China, 100085	
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

3.2 Test Location

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

3.3 Test Facility

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

A2LA (Certificate No. 6336.01)

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

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accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Mobile Phone			
Model No.:	2312DRA50G			
Trade Mark:	Redmi			
Hardware Version:	P2			
Software Version:	MIUI 14			
Power Supply:	Lithium Bat	tery (3.91V)		
	RF Conduc	ted	86094	9060049381
IMEI:	RSE & AC	power line		: 860949060030241 : 860949060030258
	802.11a:	20 MHz chann	el band	width
WLAN Mode Supported:	802.11n:	20 MHz / 40 M	Hz cha	nnel bandwidth
	802.11ac:	20 MHz / 40 M	Hz / 80	MHz channel bandwidth
Operation Frequency:	5250MHz to	Hz to 5250MHz Hz to 5350MHz Hz to 5725MHz		
	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:	IFA Antenn	а		
Antenna Gain:	5250MHz to 5470MHz to	OMHz to 5250MHz: -2dBi (Ant11); -2.2dBi (Ant12); OMHz to 5350MHz: -1.4dBi (Ant11); -1.3dBi (Ant12); OMHz to 5725MHz: -1.5dBi (Ant11); -0.6dBi (Ant12); 5MHz to 5850MHz: -1.6dBi (Ant11); -0.2dBi (Ant12);		
	Note: The antenn manufactur	enna gain are derived from the gain information report provided by the cturer.		
	⊠ siso	802.11a/n/ac		
Smart System:	⊠ MIMO			
☐ Diversity 802.11a: 2Tx & 2Rx			(
TPC Function:	⊠Support,	☐Not Support		
DFS Function:	□Master			
	☐Slave with radar detection ☐Slave without radar detection			



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RF Cable: 2.0dB

Remark:

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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 14m/cc 40MUs	The Lowest channel	5190		
IEEE 802.11n/ac 40MHz	The Highest channel	5230		
IEEE 802.11ac 80MHz	The Middle channel	5210		

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 002.1111/ac 40101F12	The Highest channel	5310		
IEEE 802.11ac 80MHz	The Middle channel	5290		



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5				
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 902 445/22 40MHz	The Lowest channel	5755			
IEEE 802.11n/ac 40MHz	The Highest channel	5795			
IEEE 802.11ac 80MHz	The Middle channel	5775			

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
Straddle Channel	144 ^[1]	5720	142 ^[2]	5710
Straudie Charmer	138 ^[3]	5690		
	120 ^[1]	5600	124 ^[1]	5620
TDWR Channel	128 ^[1]	5640	118 ^[2]	5590
	126 ^[2]	5630	122 ^[3]	5610

Note:

- 1. The above Frequency and Channel were 802.11a, 802.11n HT20 and 802.11ac VHT20.
- 2. The above Frequency and Channel were 802.11n HT40 and 802.11ac VHT40.
- 3. The above Frequency and Channel were 802.11ac VHT80.



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests				
Relative Humidity	44-46 % RH Ambient				
Value	Temperature(°C)	Voltage(Vdc)			
NTNV	22~23	3.91			

Remark:

NV: Normal Voltage NT: Normal Temperature

3.6 Description of Support Units

Test Equipment	Manufacturer	Model No.	Inventory No.
Router	TP-LINK	Archer BE800 (FCC ID 2AXJ4BE800)	SUWI-03-14-03

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	CDD/MIMO - Data Rate
802.11a	6 Mbps	12 Mbps
802.11n (HT 20)	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)
802.11n (HT 40)	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	MCS0 (58.5 Mbps)



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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 IFA Antenna and no consideration of replacement.

The best case gain of the antenna is

5150MHz to 5250MHz: -2dBi (Ant11); -2.2dBi (Ant12);*

5250MHz to 5350MHz: -1.4dBi (Ant11); -1.3dBi (Ant12);*

5470MHz to 5725MHz: -1.5dBi (Ant11); -0.6dBi (Ant12);*

5725MHz to 5850MHz: -1.6dBi (Ant11); -0.2dBi (Ant12);*

*Note:

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

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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,
 Array Gain = 10 log(N_{ANT}/N_{SS} = 1) dB.

For power measurements on IEEE 802.11 devices:
 Array Gain = 0 dB (i.e., no array gain) for N_{ANT} ≤ 4;

For power, the directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

Unequal antenna gain:

Operation Frequency	ANT Gain11 (dBi)	ANT Gain12 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150MHz to 5250MHz	-2	-2.2	-2	0.91	0	0
5250MHz to 5350MHz	-1.4	-1.3	-1.3	1.66	0	0
5470MHz to 5725MHz	-1.5	-0.6	-0.6	1.97	0	0
5725MHz to 5850MHz	-1.6	-0.2	-0.2	2.14	0	0

5150MHz to 5250MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) = 0 PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) = 0

5250MHz to 5350MHz:

Power Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) = 0 PSD Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) = 0

5470MHz to 5725MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) = 0 PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) = 0

5725MHz to 5850MHz:

Power Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) = 0 PSD Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) = 0



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.207			
Test Method:	ANSI C63.10-2020 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz		
Limit:	Frequency range (MHz)	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:				



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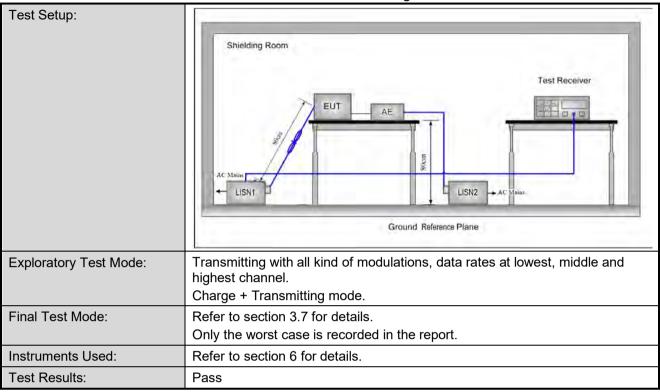
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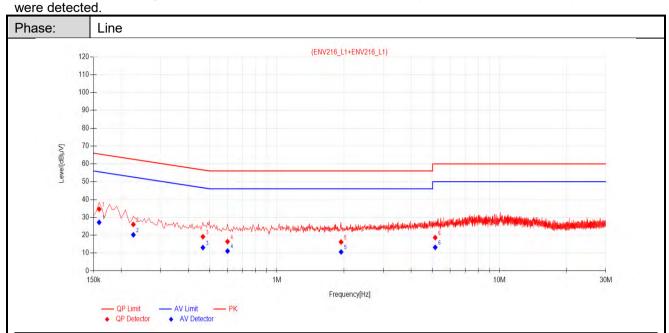
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Measurement Data

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



Data	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	0.1590	11.82	22.78	34.60	65.52	30.92	15.38	27.20	55.52	28.32	PASS
2	0.2265	11.64	14.40	26.04	62.58	36.54	8.59	20.23	52.58	32.35	PASS
3	0.4650	11.60	7.55	19.15	56.60	37.45	1.45	13.05	46.60	33.55	PASS
4	0.6000	11.63	4.79	16.42	56.00	39.58	-0.52	11.11	46.00	34.89	PASS
5	1.9410	11.74	4.44	16.18	56.00	39.82	-1.14	10.60	46.00	35.40	PASS
6	5.1360	11.82	6.81	18.63	60.00	41.37	1.35	13.17	50.00	36.83	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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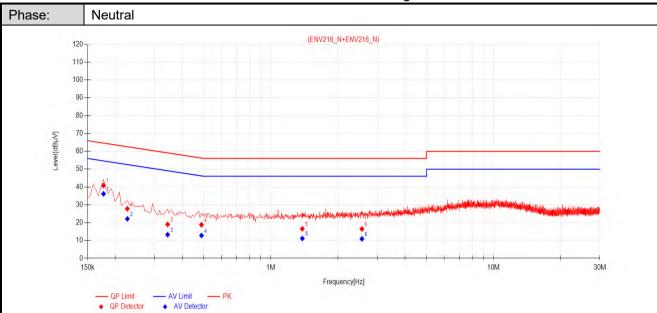
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Data	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1770	11.73	29.14	40.87	64.63	23.76	24.42	36.15	54.63	18.48	PASS
2	0.2265	11.64	16.15	27.79	62.58	34.79	10.50	22.14	52.58	30.44	PASS
3	0.3435	11.62	7.41	19.03	59.12	40.09	1.66	13.28	49.12	35.84	PASS
4	0.4875	11.60	7.21	18.81	56.21	37.40	1.19	12.79	46.21	33.42	PASS
5	1.3830	11.72	4.84	16.56	56.00	39.44	-0.59	11.13	46.00	34.87	PASS
6	2.5620	11.73	4.75	16.48	56.00	39.52	-0.82	10.91	46.00	35.09	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[$\overrightarrow{dB}\mu\overrightarrow{V}$] Value[$\overrightarrow{dB}\mu\overrightarrow{V}$]



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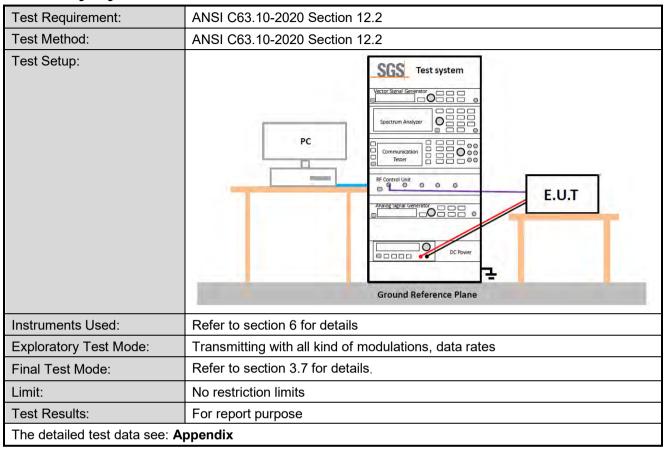


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4.3 Duty Cycle





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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Se	ection 15.407(a)		
Test Method:	ANSI C63.10-2020	Section 12.4.3.2		
Test Setup:	* 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	·		
Exploratory Test Mode:	Transmitting with a	ll kind of modulations, data rates		
Final Test Mode:	Refer to section 3.7	7 for details.		
Limit:	Frequency Band	Limit		
	5150-5250MHz	Not exceed 250mW(23.98dBm)		
	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 C63.10-2020 Section 12.5.2		
Test Setup:	PC Spectrum Analyzer Communication Pexer RF Control Unit Analog Mena Generator DC Prower 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 C63.10-2020 Section 12.5.1				
Test Setup:	PC Community Tensor September 1	al Generator an Analyzer an Analyzer an Analyzer an E.U.T			
Test Instruments:	Refer to section 6 for details.				
Exploratory Test Mode:	Transmitting with all kind of modula	tions, data rates			
Final Test Mode:	Refer to section 3.7 for details.				
Limit:	Frequency Band	Limit			
	5725-5850MHz	At lease 500kHz			
Test Results:	Pass				
The detailed test data see: A	ppendix				



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Attention 7.0 back the substanticity of testing inspection report & certificate, plasse contact us at temphone (66-755) 8307 1443.

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4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D	
Test Method:	ANSI C63.10-2020 Section 12.5.3	
Test Setup:	PC Spectrum Analyzer Spectrum Analyzer Communication FF Control Unit FF Control Unit	
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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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Sec	tion 15.407(a)	
Test Method:	ANSI C63.10-2020 Section 12.6		
	KDB 789033 D02 v0	02r01, Section F.	
Test Setup:	PC	SGS Test system Vactor Signal Generator Spectrum Analyzer Communication Tester FF Control Unit Communication FF Control Unit FF Control	
Instruments Used:	Refer to section 6 for	or 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 11dBm/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 C63.10-2020 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:

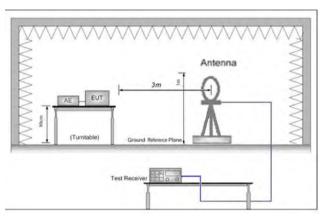
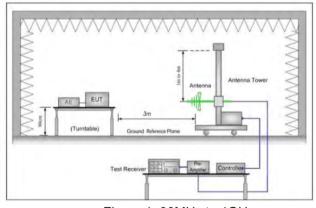


Figure 1. 9kHz to 30MHz



Antenna Tower

Im or 3m

Antenna Tower

Im or 3m

Turntable

Ground Reference Plane

Test Receiver

Fire Angellar

Controller

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.
- b. 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.
- 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.



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	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.
	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.
	 At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.
Test Configuration:	 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 ≥ 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. Charge + 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.



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Attention: To check the authenticity of testing /inspection report & certificate, plasse contact us at telephone: (86-755) 8307 1443, or email: CND occheck@gs.com

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t (86-512) 62992980

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Test Results: Pass

The detailed test data see: Appendix



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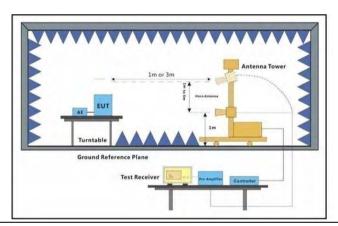
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)				
Test Method:	ANSI C63.10-2020 Section	ANSI C63.10-2020 Section 12.7			
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)			
Limit:	Frequency	Frequency Limit (dBuV/m) Remark			
	30MHz-88MHz	40.0	Quasi-peak		
	88MHz-216MHz 43.5 Quasi-p				
	216MHz-960MHz 46.0 Quasi-peak				
	960MHz-1GHz 54.0 Quasi-peak				
	Al 4011-	54.0	Average Value		
	Above 1GHz 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.
- c. 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.
- 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 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



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	<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.
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 = 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.
Evaleratemy Test Made	·
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	e: Appendix



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4.11 Dynamic Frequency Selection

4.11.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode			
	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	

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master Device or Client with Radar Detection	Client Without Radar Detection	
DFS Detection Threshold	Yes	Not required	
Channel Closing Transmission Time	Yes	Yes	
Channel Move Time	Yes	Yes	
U-NII Detection Bandwidth	Yes	Not required	

		<u> </u>
Additional requirements for devices with	Master Device or Client with	Client Without Radar
multiple bandwidth modes	Radar Detection	Detection
U-NII Detection Bandwidth and Statistical	All BW modes must be tested	Not required
Performance Check		_
Channel Move Time and Channel Closing	Test using widest BW mode	Test using the widest
Transmission Time	available	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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4.11.2 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	-62 dBm
power spectral density < 10 dBm/MHz	
EIRP < 200 milliwatt that do not meet the power spectral density	-64 dBm
requirement	

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.



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4.11.3 RADAR TEST WAVEFORMS

Table 5 - Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	Roundup $ \left\{ \frac{\left(\frac{1}{360}\right)}{\left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}}\right)} \right\} $	60%	30
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
ggregate	(Radar Types 1-			80%	120

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



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Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition	Pulse Repetition Frequency	Pulse Repetition
Frequency	(Pulses Per Second)	Interval
Number		(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	Minimum Percentage			
		Detections	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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Table 6 - Long Pulse Radar Test Waveform

Radar	Pulse	Chirp	PRI	Number	Number	Minimum	Minimum
Type	Width	Width	(µsec)	of Pulses	of Bursts	Percentage of	Number of
	(µsec)	(MHz)		per <i>Burst</i>		Successful	Trials
						Detection	
5	50-100	5-20	1000-	1-3	8-20	80%	30
			2000				

Table 7 – Frequency Hopping Radar Test Waveform

		1 440	. ,	quency mop	bing itauai it	or marcionin	
Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
Type	Width	(µsec)	per	Rate	Sequence	Percentage of	Number of
	(µsec)		Hop	(kHz)	Length	Successful	Trials
					(msec)	Detection	
6	1	333	9	0.333	300	70%	30

4.11.4 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.

The detailed test data see: Appendix



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

	,			
Item	Measurement Uncertainty			
Total RF power, conducted	±0.54dB			
RF power density, conducted	±1.03dB			
Spurious emissions, conducted	±0.54dB			
Radio Frequency	±1.0 %			
Duty Cycle	±0.37%			
Occupied Bandwidth	±1.0 %			
Conduction Emission	± 2.90dB (150kHz to 30MHz)			
	± 3.13dB (9k to 30MHz)			
Dadiete d Eusianian	± 4.88dB (30M to 1GHz)			
Radialed Emission	± 4.75dB (1GHz to 18GHz)			
	± 4.77dB (Above 18GHz)			
	Total RF power, conducted RF power density, conducted Spurious emissions, conducted Radio Frequency Duty Cycle Occupied Bandwidth			

Remark:

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

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

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



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6 Equipment List

C Equipment Eist								
RF Test Equipment								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05			
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR			
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10			
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05			
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05			
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22			
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22			
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05			
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN:101716	2023/02/22	2024/02/21			

Conduction Test Equipment								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07			
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR			



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RSE Test System							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Semi- Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2023/02/07	2024/02/06		
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10		
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07		
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2021/12/05	2023/12/04		
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04		
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11		
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12		
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22		
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22		
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	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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Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a-CDD	Ant11	5180	23.80	5168.84	5192.64	
11a-CDD	Ant12	5180	21.24	5169.28	5190.52	1
11a-CDD	Ant11	5220	21.92	5208.88	5230.80	
11a-CDD	Ant12	5220	21.44	5209.24	5230.68	1
11a-CDD	Ant11	5240	21.80	5228.92	5250.72	1
11a-CDD	Ant12	5240	24.80	5225.60	5250.40	
11a-CDD	Ant11	5260	21.68	5249.08	5270.76	
11a-CDD	Ant12	5260	25.32	5245.12	5270.44	1
11a-CDD	Ant11	5300	21.32	5289.36	5310.68	1
11a-CDD	Ant12	5300	20.92	5289.48	5310.40]
11a-CDD	Ant11	5320	21.24	5309.32	5330.56]
11a-CDD	Ant12	5320	21.20	5309.24	5330.44	
11a-CDD	Ant11	5500	22.20	5488.92	5511.12]
11a-CDD	Ant12	5500	21.40	5489.16	5510.56	
11a-CDD	Ant11	5580	23.20	5568.68	5591.88]
11a-CDD	Ant12	5580	21.16	5569.40	5590.56	
11a-CDD	Ant11	5700	22.32	5688.76	5711.08	1
11a-CDD	Ant12	5700	20.80	5689.76	5710.56]
11a-CDD	Ant11	5720	21.20	5709.52	5730.72	
11a-CDD	Ant12	5720	20.92	5709.60	5730.52	
11a-CDD	Ant11	5720 UNII-2C	15.48	5709.52	5725	1
11a-CDD	Ant12	5720 UNII-2C	15.4	5709.60	5725	
11a-CDD	Ant11	5720 UNII-3	5.72	5725	5730.72	
11a-CDD	Ant12	5720 UNII-3	5.52	5725	5730.52	F
11a-CDD	Ant11	5745	21.32	5734.44	5755.76	For
11a-CDD	Ant12	5745	21.72	5733.76	5755.48	Report
11a-CDD	Ant11	5785	21.72	5774.08	5795.80	Purpose
11a-CDD	Ant12	5785	21.00	5774.48	5795.48	
11a-CDD	Ant11	5825	21.72	5814.08	5835.80	
11a-CDD	Ant12	5825	21.20	5814.28	5835.48	
11ac20MIMO	Ant11	5180	22.84	5168.44	5191.28	
11ac20MIMO	Ant12	5180	22.28	5168.92	5191.20	
11ac20MIMO	Ant11	5220	23.28	5208.40	5231.68	
11ac20MIMO	Ant12	5220	22.40	5208.80	5231.20	
11ac20MIMO	Ant11	5240	23.52	5228.60	5252.12	
11ac20MIMO	Ant12	5240	22.12	5228.80	5250.92	
11ac20MIMO	Ant11	5260	23.24	5248.48	5271.72	
11ac20MIMO	Ant12	5260	22.44	5248.80	5271.24	
11ac20MIMO	Ant11	5300	22.92	5288.00	5310.92	
11ac20MIMO	Ant12	5300	23.04	5288.24	5311.28	
11ac20MIMO	Ant11	5320	23.32	5308.44	5331.76	
11ac20MIMO	Ant12	5320	29.20	5302.84	5332.04	
11ac20MIMO	Ant11	5500	23.48	5488.28	5511.76	
11ac20MIMO	Ant12	5500	23.56	5488.24	5511.80	
11ac20MIMO	Ant11	5580	22.68	5568.72	5591.40	
11ac20MIMO	Ant12	5580	22.88	5568.44	5591.32	
11ac20MIMO	Ant11	5700	22.56	5688.80	5711.36	
11ac20MIMO	Ant12	5700	22.24	5688.84	5711.08	
11ac20MIMO	Ant11	5720	22.36	5708.88	5731.24	
11ac20MIMO	Ant12	5720	22.28	5709.04	5731.32	



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11ac20MIMO	Ant11	5720 UNII-2C	16.12	5708.88	5725	
11ac20MIMO	Ant12	5720 UNII-2C	15.96	5709.04	5725	
11ac20MIMO	Ant11	5720 UNII-3	6.24	5725	5731.24	
11ac20MIMO	Ant12	5720 UNII-3	6.32	5725	5731.32	
11ac20MIMO	Ant11	5745	22.52	5733.80	5756.32	
11ac20MIMO	Ant12	5745	22.44	5733.56	5756.00	
11ac20MIMO	Ant11	5785	22.36	5773.68	5796.04	
11ac20MIMO	Ant12	5785	22.48	5773.72	5796.20	
11ac20MIMO	Ant11	5825	22.16	5813.64	5835.80	
11ac20MIMO	Ant12	5825	22.20	5813.88	5836.08	
11ac40MIMO	Ant11	5190	40.48	5169.84	5210.32	
11ac40MIMO	Ant12	5190	40.40	5169.84	5210.24	
11ac40MIMO	Ant11	5230	40.64	5209.76	5250.40	
11ac40MIMO	Ant12	5230	40.40	5209.84	5250.24	
11ac40MIMO	Ant11	5270	40.96	5249.44	5290.40	
11ac40MIMO	Ant12	5270	45.60	5245.28	5290.88	
11ac40MIMO	Ant11	5310	40.24	5289.84	5330.08	
11ac40MIMO	Ant12	5310	41.04	5289.52	5330.56	
11ac40MIMO	Ant11	5510	40.56	5489.76	5530.32	
11ac40MIMO	Ant12	5510	40.16	5489.76	5529.92	
11ac40MIMO	Ant11	5550	41.04	5529.68	5570.72	
11ac40MIMO	Ant12	5550	40.96	5529.76	5570.72	
11ac40MIMO	Ant11	5670	40.88	5649.68	5690.56	
11ac40MIMO	Ant12	5670	40.80	5649.52	5690.32	
11ac40MIMO	Ant11	5710	40.32	5689.68	5730.00	
11ac40MIMO	Ant12	5710	40.40	5690.00	5730.40	
11ac40MIMO	Ant11	5710 UNII-2C	35.32	5689.68	5725	
11ac40MIMO	Ant12	5710_UNII-2C	35.32	5690.00	5725	
11ac40MIMO	Ant11	5710_UNII-2C	5	5725	5730.00	
		_	5.4			
11ac40MIMO	Ant12	5710_UNII-3		5725	5730.40	
11ac40MIMO 11ac40MIMO	Ant11 Ant12	5755 5755	40.64 40.24	5734.92 5734.84	5775.56 5775.08	
		5795				
11ac40MIMO	Ant11		41.12	5774.04	5815.16	
11ac40MIMO	Ant12	5795	40.16	5775.00	5815.16	
11ac80MIMO	Ant11	5210	82.72	5168.88	5251.60	
11ac80MIMO	Ant12	5210	83.04	5168.88	5251.92	
11ac80MIMO	Ant11	5290	82.72	5248.88	5331.60	
11ac80MIMO	Ant12	5290	83.36	5248.88	5332.24	
11ac80MIMO	Ant11	5530	83.20	5488.72	5571.92	
11ac80MIMO	Ant12	5530	82.88	5488.88	5571.76	
11ac80MIMO	Ant11	5610	83.52	5568.40	5651.92	
11ac80MIMO	Ant12	5610	82.56	5568.72	5651.28	
11ac80MIMO	Ant11	5690	82.08	5649.04	5731.12	
11ac80MIMO	Ant12	5690	83.04	5648.72	5731.76	
11ac80MIMO	Ant11	5690_UNII-2C	75.96	5649.04	5725	
11ac80MIMO	Ant12	5690_UNII-2C	76.28	5648.72	5725	
11ac80MIMO	Ant11	5690_UNII-3	6.12	5725	5731.12	
11ac80MIMO	Ant12	5690_UNII-3	6.76	5725	5731.76	
11ac80MIMO	Ant11	5775	82.40	5733.72	5816.12	
11ac80MIMO	Ant12	5775	82.56	5733.72	5816.28	

Remark:

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



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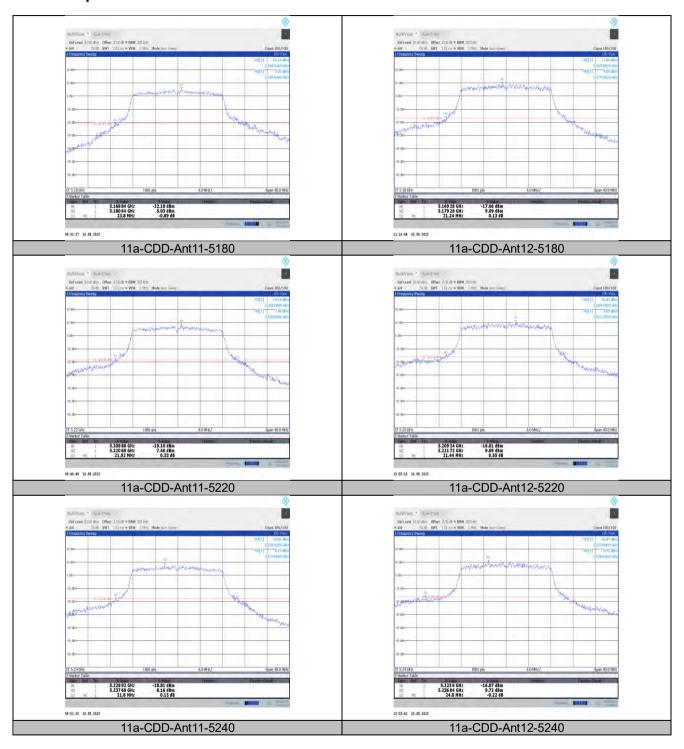


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Test Graphs





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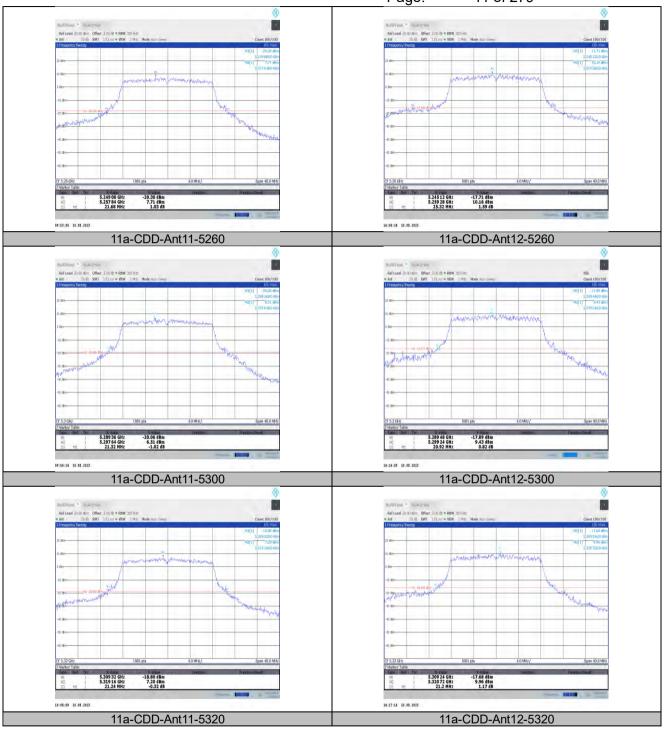
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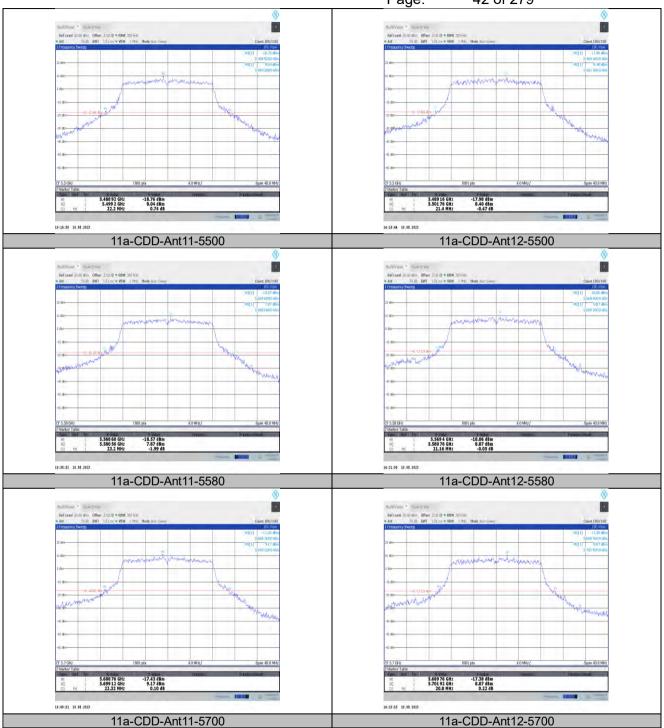
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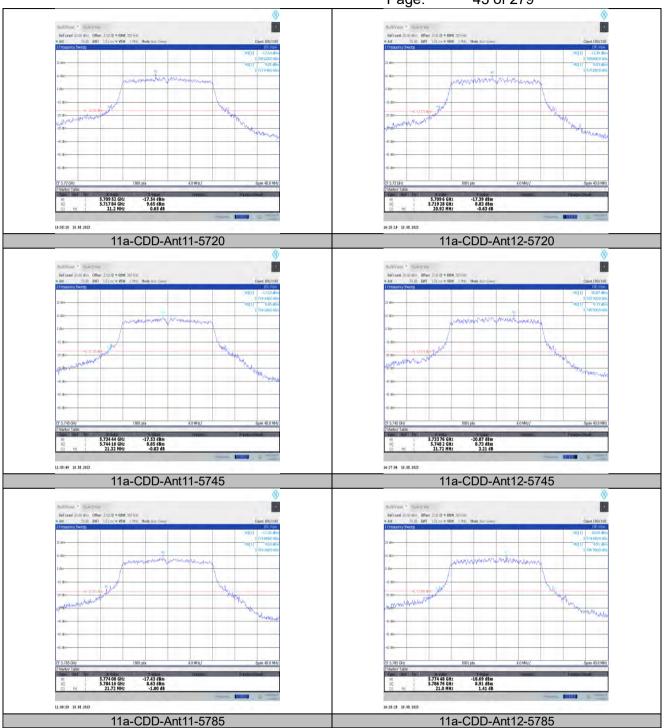
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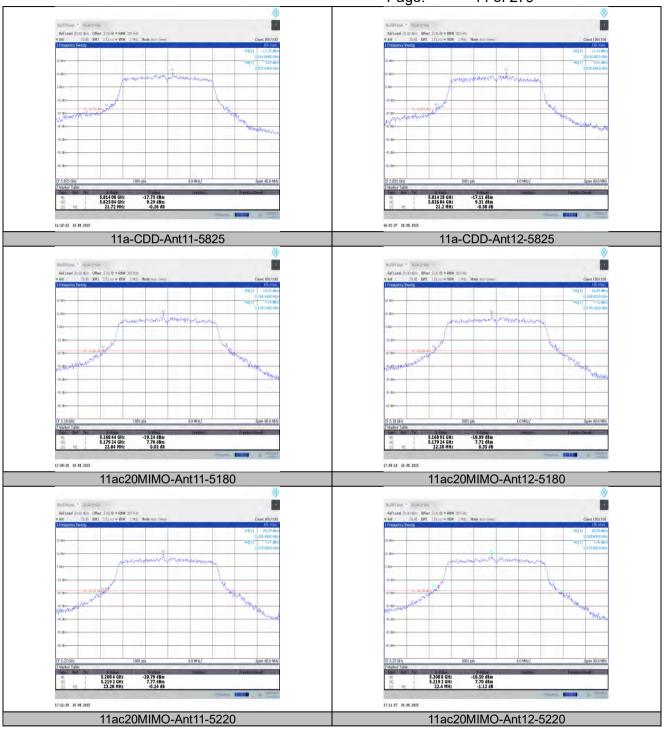
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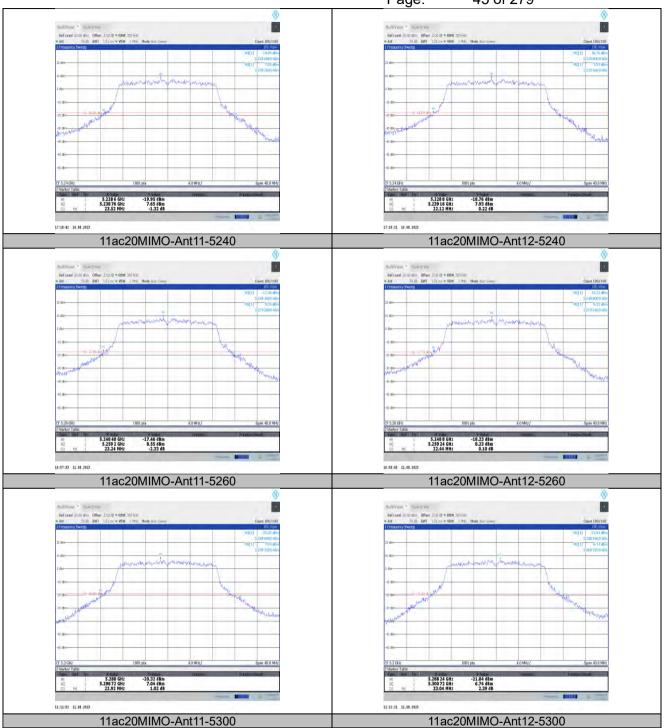
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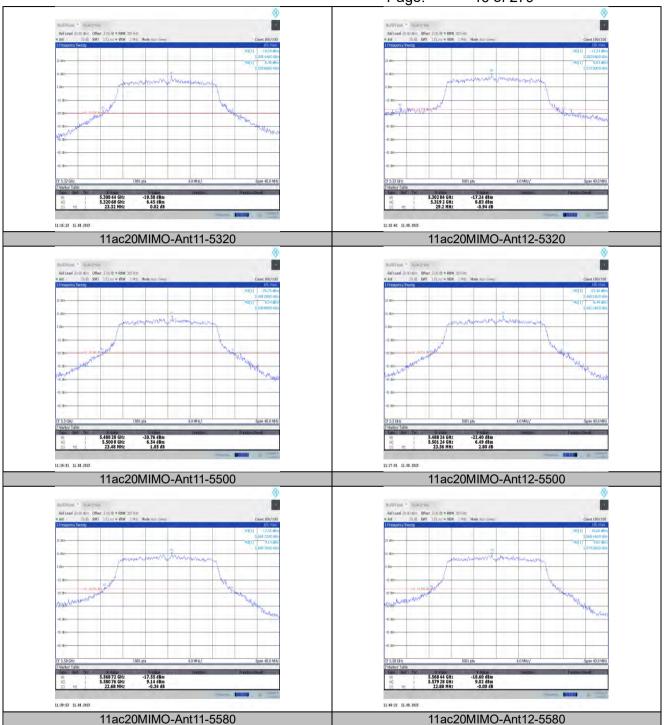
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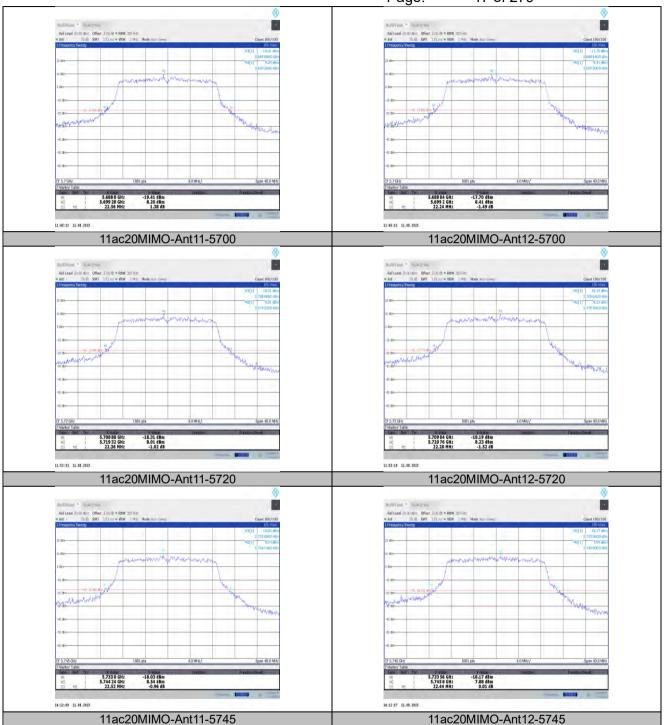
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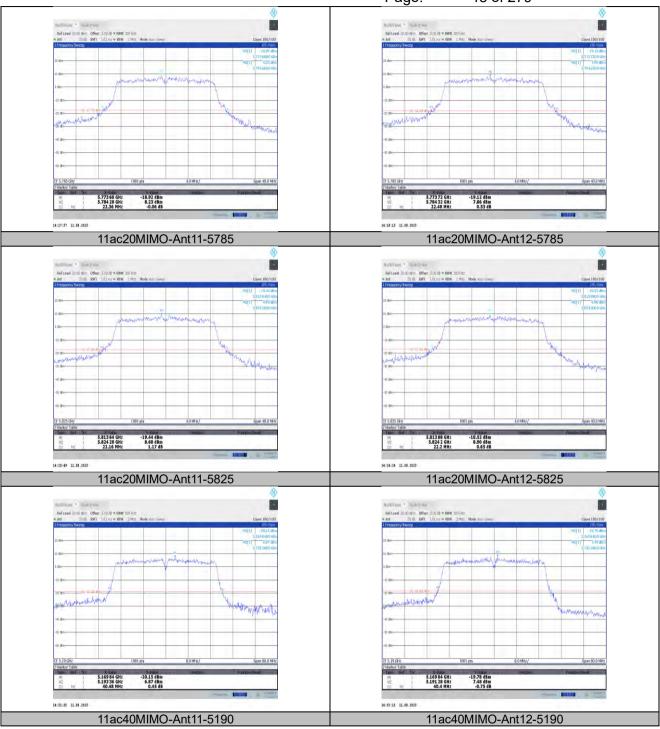
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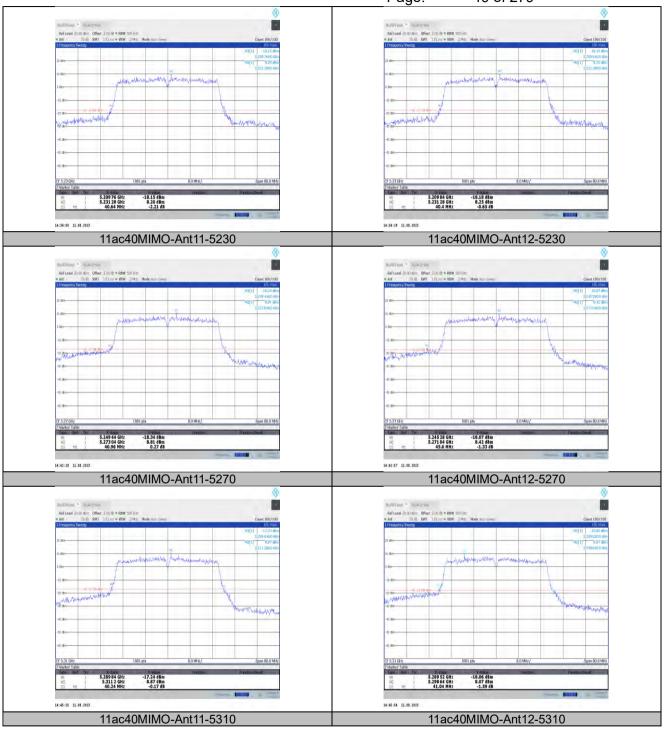
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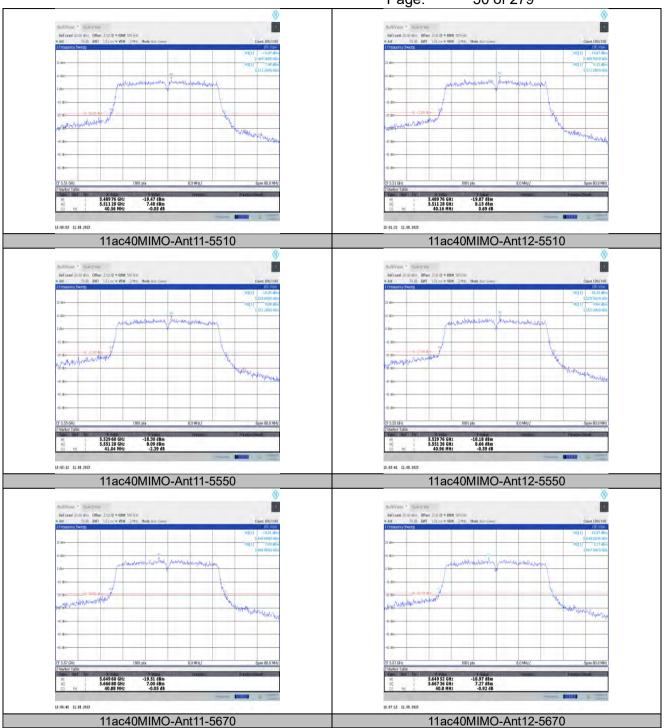
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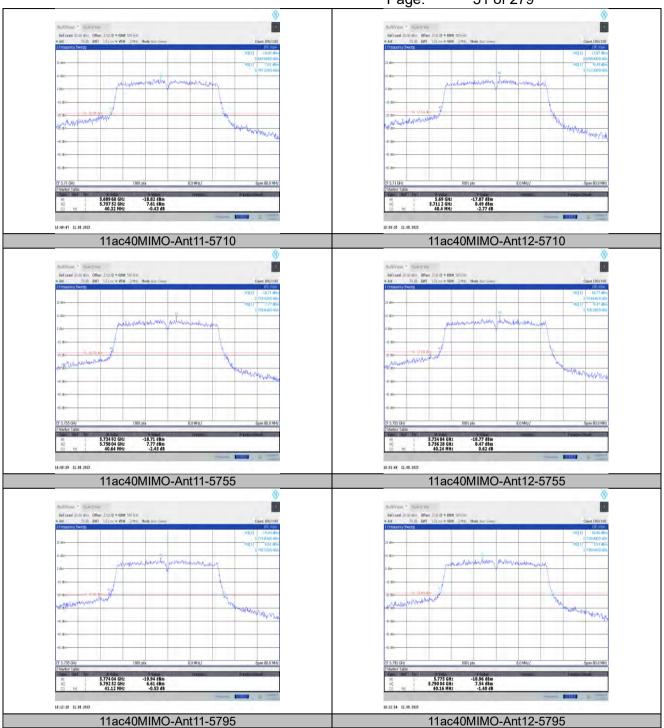
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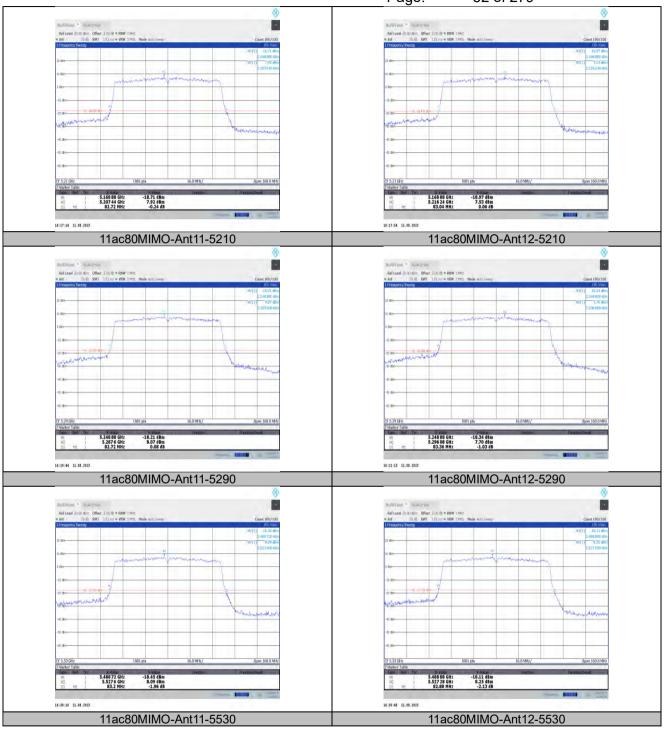
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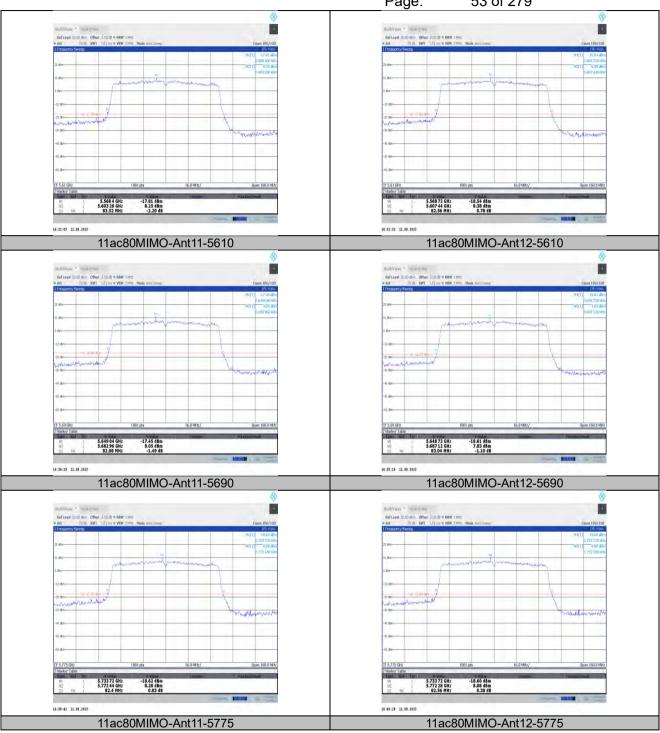
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Occupied channel bandwidth Test Result

11a-CDD	TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a-CDD	11a-CDD	Ant11	5180	16.978	5171.5454	5188.5230	
11a-CDD		Ant12	5180	16.847	5171.5562	5188.4029	
11a-CDD	11a-CDD	Ant11	5220	16.898	5211.4851	5228.3834	
Tia-CDD	11a-CDD	Ant12	5220	16.81	5211.5458	5228.3559	
11a-CDD		Ant11	5240	16.895		5248.3760	
11a-CDD							
11a-CDD		Ant11	5260	16.938	5251.4793		
11a-CDD	11a-CDD	Ant12	5260		5251.4719	5268.3666	
11a-CDD							
11a-CDD							
11a-CDD				16.929			
11a-CDD							
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11a-CDD							
11a-CDD		Ant11					
11a-CDD							
11a-CDD							
11a-CDD	11a-CDD	Ant12	5720 UNII-2C			5725	
11a-CDD							
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11a-CDD Ant11 5825 16.939 5816.4416 5833.3807 11a-CDD Ant12 5825 16.783 5816.5714 5833.3546 11ac20MIMO Ant11 5180 18.02 5170.9929 5189.0126 11ac20MIMO Ant12 5180 18.058 5170.9529 5189.0104 11ac20MIMO Ant11 5220 18.121 5210.9386 5229.0594 11ac20MIMO Ant12 5220 18.111 5210.9592 5229.0700 11ac20MIMO Ant11 5240 18.075 5230.9189 5248.9941 11ac20MIMO Ant12 5240 18.111 5230.9522 5249.0633 11ac20MIMO Ant11 5260 18.127 5250.9353 5269.0620 11ac20MIMO Ant12 5260 18.238 5250.8119 5269.0495 11ac20MIMO Ant11 5300 18.096 5290.9313 5309.0274 11ac20MIMO Ant12 5300 18.155 5310.9136 5329.0690							Purpose
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11ac20MIMO	Ant11	5720_UNII-3	3.971	5725	5728.9713	
11ac20MIMO	Ant12	5720_UNII-3	3.975	5725	5728.9754	
11ac20MIMO	Ant11	5745	17.996	5735.9611	5753.9571	
11ac20MIMO	Ant12	5745	18.016	5735.9665	5753.9821	
11ac20MIMO	Ant11	5785	18.005	5775.9744	5793.9789	
11ac20MIMO	Ant12	5785	18.015	5775.9747	5793.9899	
11ac20MIMO	Ant11	5825	17.985	5815.9524	5833.9373	
11ac20MIMO	Ant12	5825	18.009	5815.9517	5833.9611	
11ac40MIMO	Ant11	5190	36.524	5171.7278	5208.2518	
11ac40MIMO	Ant12	5190	36.383	5171.7803	5208.1632	
11ac40MIMO	Ant11	5230	36.429	5211.7792	5248.2080	
11ac40MIMO	Ant12	5230	36.426	5211.7719	5248.1980	
11ac40MIMO	Ant11	5270	36.537	5251.6786	5288.2157	
11ac40MIMO	Ant12	5270	36.532	5251.6870	5288.2187	
11ac40MIMO	Ant11	5310	36.437	5291.7193	5328.1560	
11ac40MIMO	Ant12	5310	36.444	5291.7338	5328.1779	
11ac40MIMO	Ant11	5510	36.4	5491.7686	5528.1689	
11ac40MIMO	Ant12	5510	36.399	5491.7735	5528.1727	
11ac40MIMO	Ant11	5550	36.403	5531.7590	5568.1618	
11ac40MIMO	Ant12	5550	36.446	5531.6976	5568.1435	
11ac40MIMO	Ant11	5670	36.433	5651.7280	5688.1614	
11ac40MIMO	Ant12	5670	36.423	5651.7425	5688.1653	
11ac40MIMO	Ant11	5710	36.42	5691.7511	5728.1708	
11ac40MIMO	Ant12	5710	36.417	5691.7553	5728.1719	
11ac40MIMO	Ant11	5710 UNII-2C	33.249	5691.7511	5725	
11ac40MIMO	Ant12	5710 UNII-2C	33.245	5691.7553	5725	
11ac40MIMO	Ant11	5710 UNII-3	3.171	5725	5728.1708	
11ac40MIMO	Ant12	5710 UNII-3	3.172	5725	5728.1719	
11ac40MIMO	Ant11	5755	36.434	5736.7207	5773.1549	
11ac40MIMO	Ant12	5755	36.411	5736.7348	5773.1456	
11ac40MIMO	Ant11	5795	36.397	5776.7517	5813.1490	
11ac40MIMO	Ant12	5795	36.384	5776.7411	5813.1254	
11ac80MIMO	Ant11	5210	76.008	5172.0486	5248.0567	
11ac80MIMO	Ant12	5210	75.966	5172.0449	5248.0111	
11ac80MIMO	Ant11	5290	75.987	5251.9874	5327.9745	
11ac80MIMO	Ant12	5290	75.972	5251.9950	5327.9668	
11ac80MIMO	Ant11	5530	75.969	5491.9440	5567.9134	
11ac80MIMO	Ant12	5530	75.981	5491.9444	5567.9251	
11ac80MIMO	Ant11	5610	75.971	5571.8825	5647.8536	
11ac80MIMO	Ant12	5610	75.962	5571.8566	5647.8183	
11ac80MIMO	Ant11	5690	75.993	5651.9568	5727.9500	
11ac80MIMO	Ant12	5690	75.996	5651.9370	5727.9328	
11ac80MIMO	Ant11	5690 UNII-2C	73.043	5651.9568	5725	
11ac80MIMO	Ant12	5690 UNII-2C	73.063	5651.9370	5725	
11ac80MIMO	Ant11	5690 UNII-3	2.95	5725	5727.9500	
11ac80MIMO	Ant12	5690 UNII-3	2.933	5725	5727.9328	
11ac80MIMO	Ant11	5775	75.969	5736.9367	5812.9062	
11ac80MIMO	Ant12	5775	75.956	5736.8961	5812.8526	
		-				

Remark:

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



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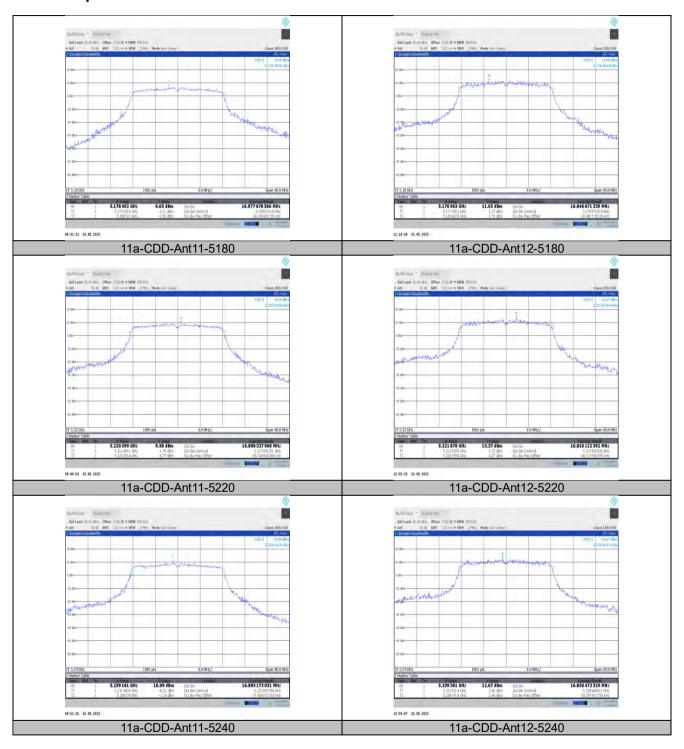


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Test Graphs





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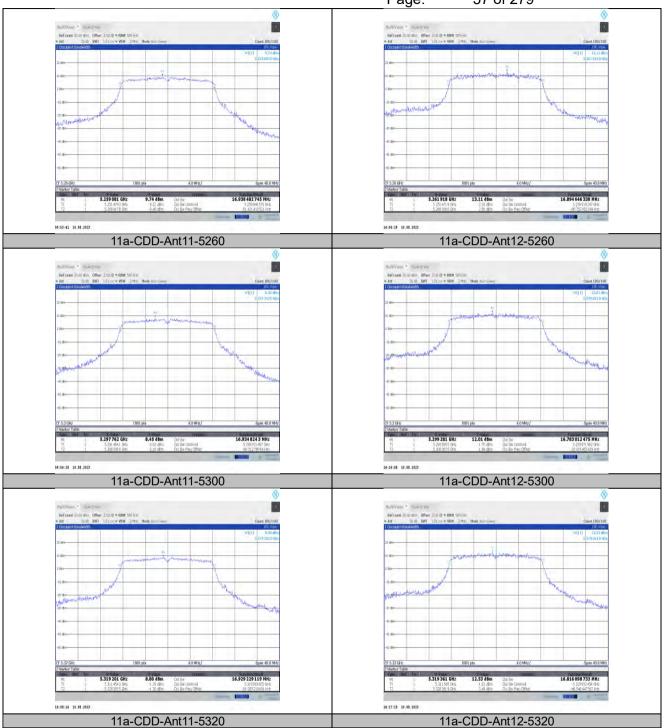
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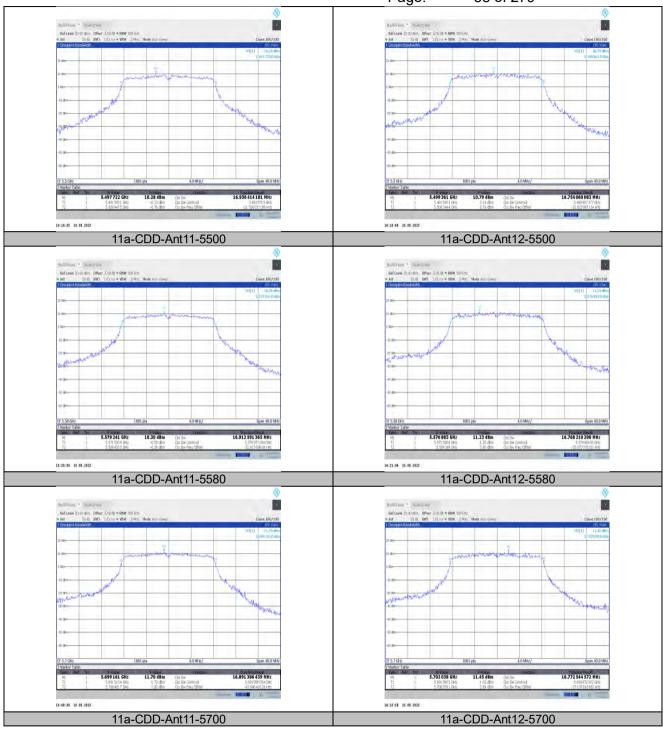
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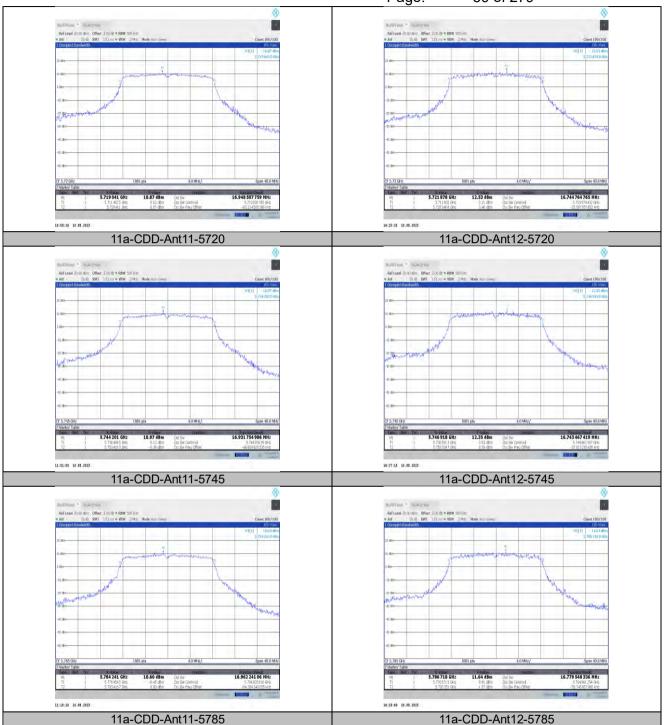
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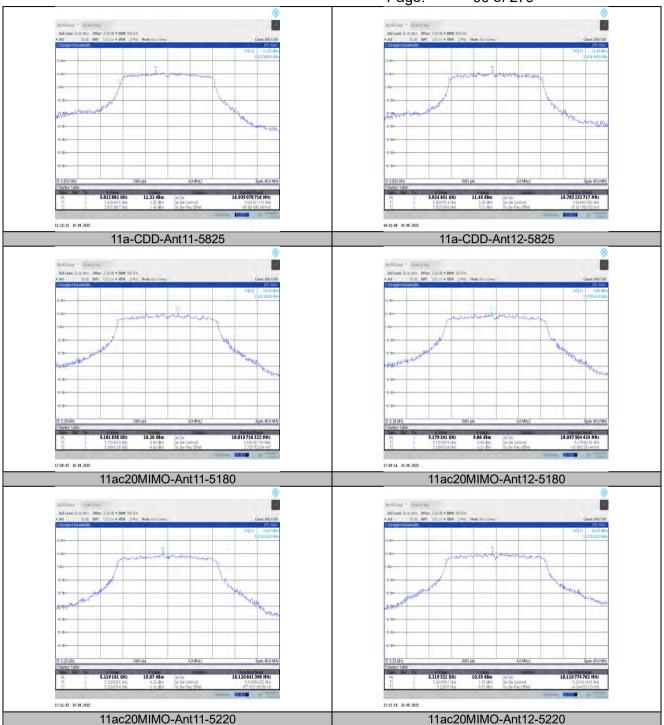
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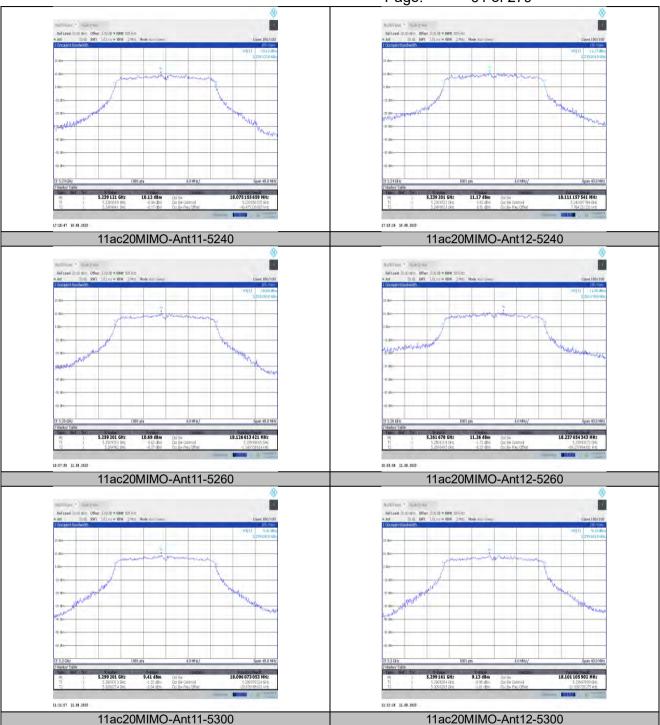
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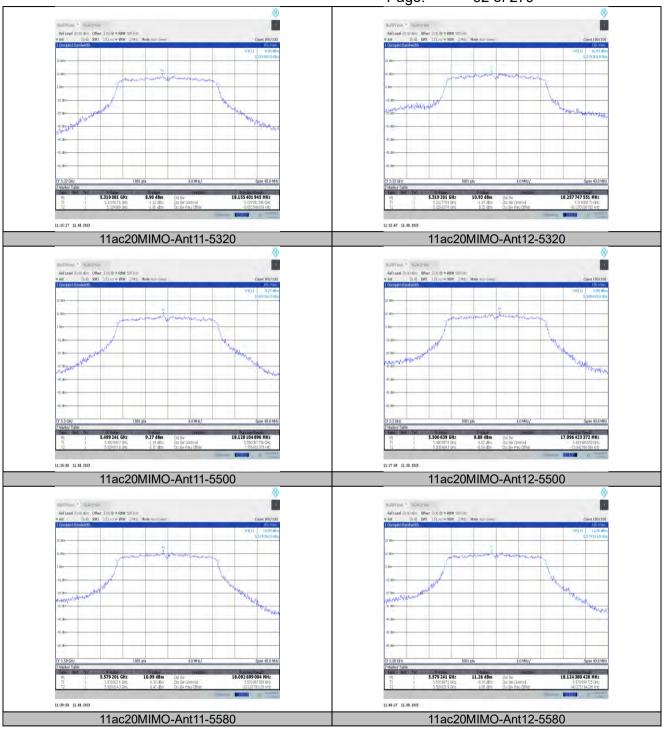
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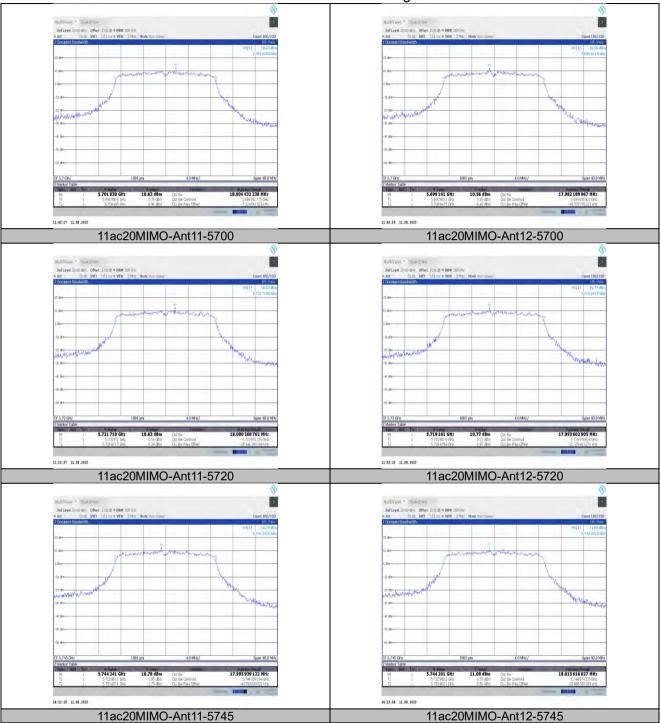
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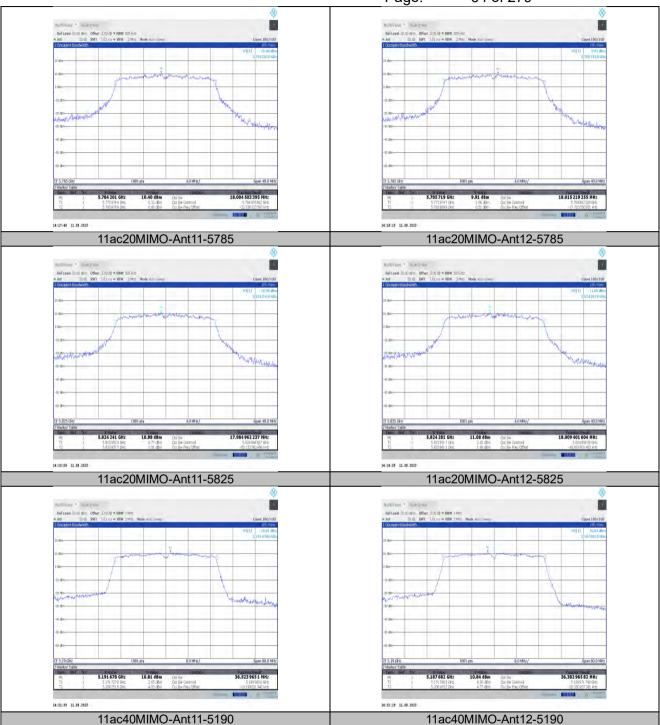
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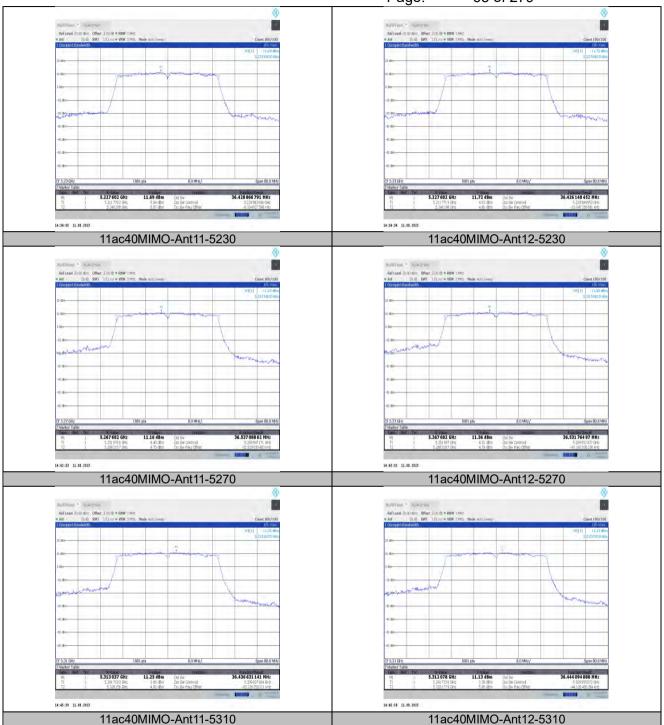
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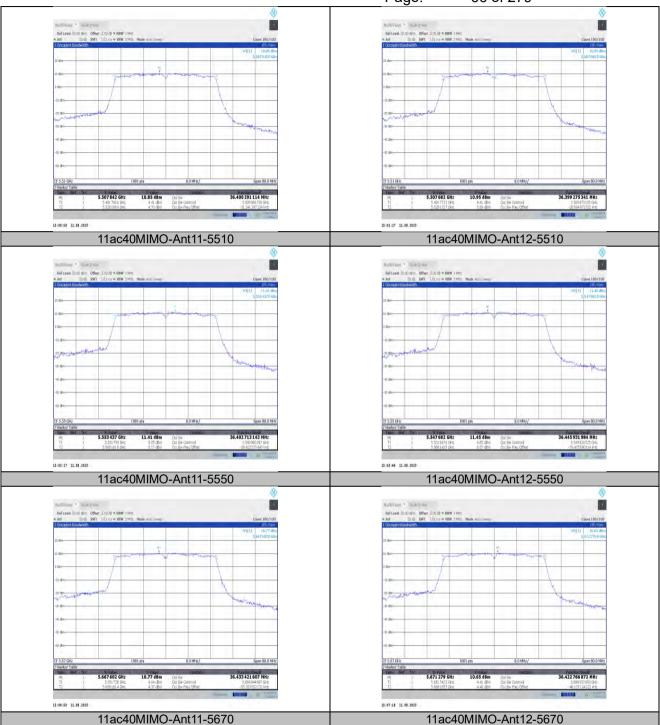
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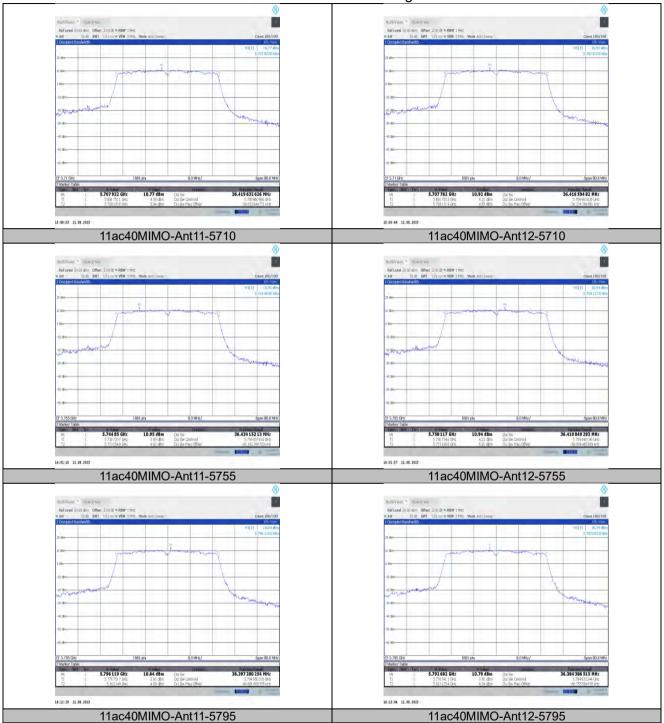
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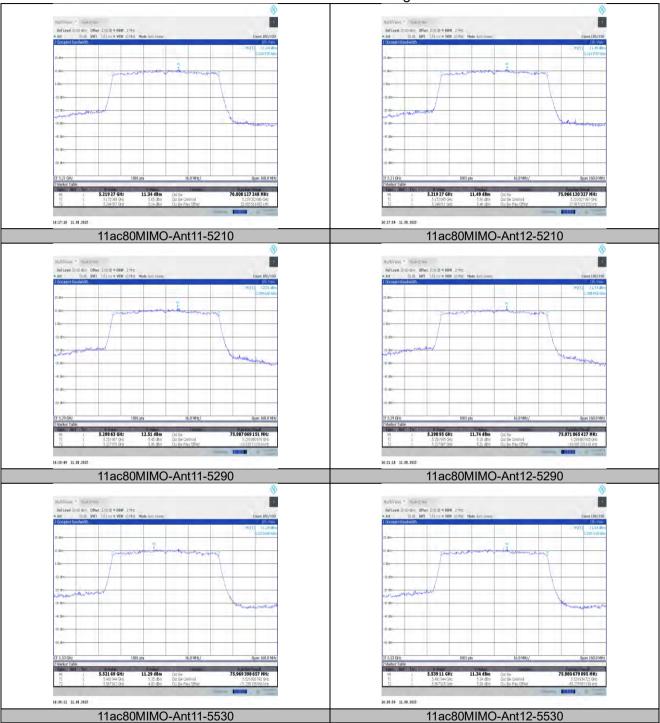
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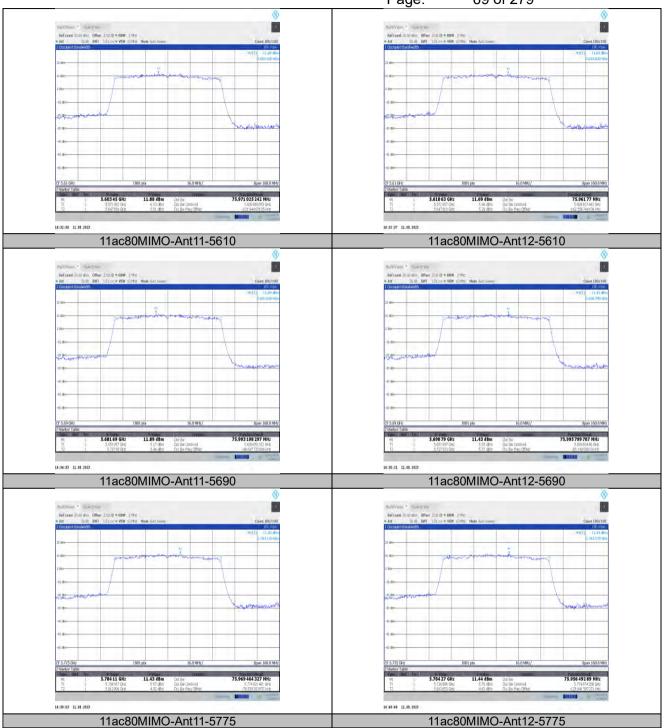
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6dB emission bandwidth Test Result B4

TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a-CDD	Ant11	5745	14.36	5737.16	5751.52	≥0.5	PASS
11a-CDD	Ant12	5745	15.36	5737.16	5752.52	≥0.5	PASS
11a-CDD	Ant11	5785	16.36	5776.80	5793.16	≥0.5	PASS
11a-CDD	Ant12	5785	15.52	5777.16	5792.68	≥0.5	PASS
11a-CDD	Ant11	5825	15.40	5817.16	5832.56	≥0.5	PASS
11a-CDD	Ant12	5825	16.40	5816.76	5833.16	≥0.5	PASS
11ac20MIMO	Ant11	5745	16.00	5736.56	5752.56	≥0.5	PASS
11ac20MIMO	Ant12	5745	17.64	5736.16	5753.80	≥0.5	PASS
11ac20MIMO	Ant11	5785	14.76	5778.40	5793.16	≥0.5	PASS
11ac20MIMO	Ant12	5785	14.76	5778.40	5793.16	≥0.5	PASS
11ac20MIMO	Ant11	5825	15.80	5817.32	5833.12	≥0.5	PASS
11ac20MIMO	Ant12	5825	16.00	5816.56	5832.56	≥0.5	PASS
11ac40MIMO	Ant11	5755	36.48	5736.76	5773.24	≥0.5	PASS
11ac40MIMO	Ant12	5755	35.28	5737.32	5772.60	≥0.5	PASS
11ac40MIMO	Ant11	5795	35.28	5777.32	5812.60	≥0.5	PASS
11ac40MIMO	Ant12	5795	35.28	5777.32	5812.60	≥0.5	PASS
11ac80MIMO	Ant11	5775	75.52	5737.24	5812.76	≥0.5	PASS
11ac80MIMO	Ant12	5775	75.52	5737.24	5812.76	≥0.5	PASS

Remark:

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



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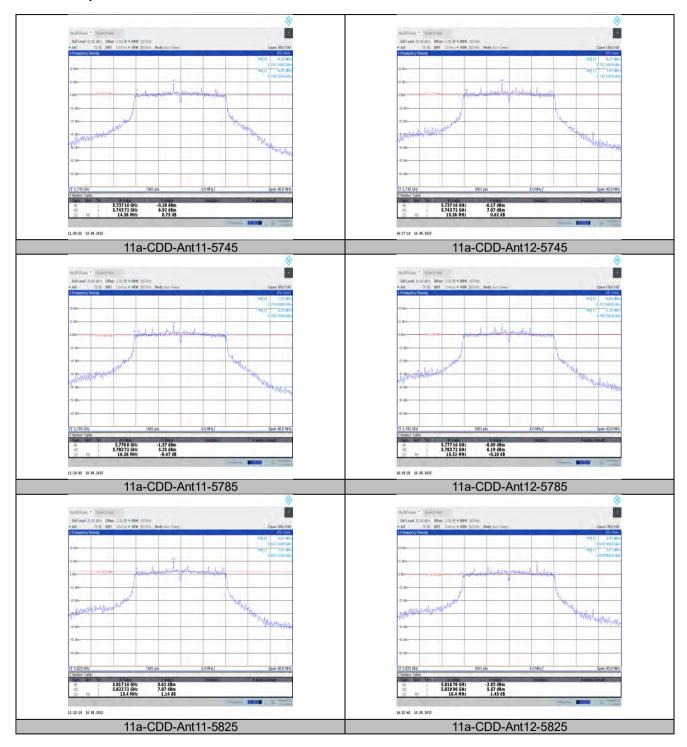


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Test Graphs B4





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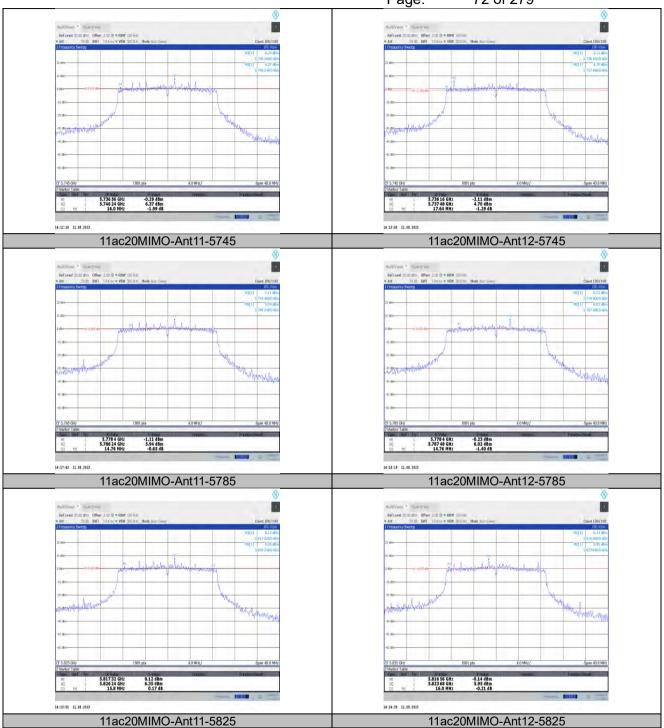
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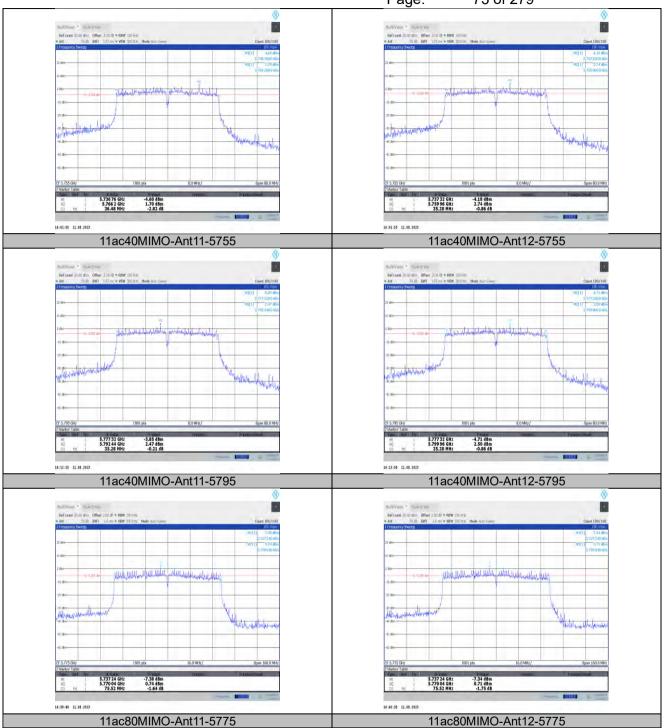
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