

Report No.: SEWM2212000326RG05

Rev.: 01

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TEST REPORT

Application No.: SEWM2212000326RG **Applicant:** Fibocom Wireless Inc.

Address of Applicant: 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi

1st Rd, Nanshan, Shenzhen, China

Manufacturer: Fibocom Wireless Inc.

Address of Manufacturer: 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi

1st Rd, Nanshan, Shenzhen, China

EUT Description:LTE ModuleModel No.:SC128-NATrade Mark:FIBOCOM

FCC ID: ZMOSC128NA

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

Date of Receipt: 2023/01/03

Date of Test: 2023/01/09 to 2023/02/08

Date of Issue: 2023/02/08

Test Result : PASS *

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

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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1 Version

	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2023/02/08		Original	

Prepared By	(Tizzy Song) / Test Engineer
Checked By	(Well Wei) / Reviewer



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2 Test Summary

Z Test 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	Reporting
Emission	Band II-A	15.407(a)(2)	No limit.	4.5	only
Bandwidth	Band II-C	15.407(a)(2)		7.5	Offiny
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS
99% Occupied Bandwidth	Band II-A Band II-C Band III	KDB 789033 D02§ D	No limit.	Clause 4.7	Reporting only
Duty Cycle	Band I Band II-A Band II-C Band III		No limit.	Clause 4.3	Reporting only
Maximum	Band I	15.407(a)(iv)	< 250mW		
Conducted Output	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></min{250mw,11dbm+10*lg(ebw)}<>	Clause 4.4	PASS
Power	Band III	15.407(a)(3)	< 1W		
Maximum	Band I	15.407(a)(iv)	<11dBm/MHz		
Power	Band II-A	15.407(a)(2)	<11dBm/MHz	Clause 4.8	PASS
Spectral	Band II-C				
Density	Band III	15.407(a)(3)	<30dBm/500KHz		
	Band I	15.209 15.407(b)	F<1GHz: §15.209/§7.2.5 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/§7.2.5 limit (AV&PK).		PASS
Unwanted Emissions that fall Out of the Restricted Bands	Band II-A	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 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/§7.2.5 limit (AV&PK).	Clause 4.9	PASS
(Radiated)	Band II-C	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 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/§7.2.5 limit (AV&PK).		PASS
	Band III	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP)		PASS



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			a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		
Unwanted Emissions in the Restricted Bands (Radiated)	Band I Band II-A Band II-C Band III	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:	Fibocom Wireless Inc.	
Address of Applicant:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China	
Manufacturer:	Fibocom Wireless Inc.	
Address of Manufacturer:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China	

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, Suzhou 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

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

accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	LTE Module	Э		
Model No.:	SC128-NA			
Trade Mark:	FIBOCOM			
Hardware Version:	V1.0			
Software Version:	SC128-NA-	S64.00.102		
SN:	RF Conduc	ted	861644060001123 861644060001180	
SIV.	RSE & AC	power line	861644060001180 861644060001768	
	802.11a:	20 MHz cha	nnel bandwidth	
WLAN Mode Supported:	802.11n:	20 MHz / 40	MHz channel bandwidth	
	802.11ac:	20 MHz / 40	MHz / 80 MHz channel bandwidth	
Operation Frequency:	5250MHz to 5470MHz to	50MHz to 5250MHz 250MHz to 5350MHz 370MHz to 5725MHz 225MHz 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(H	T20)/ac(VHT20)	
Channel Spacing:	40MHz:	802.11n(HT40)/ac(VHT40)		
	80MHz:	802.11ac(VHT80)		
Antenna Type:	External An	itenna		
Antenna Gain:	5150MHz to 5250MHz: 4.29dBi 5250MHz to 5350MHz: 4.43dBi 5470MHz to 5725MHz: 3.68dBi 5725MHz to 5850MHz: 1.47dBi		I.43dBi B.68dBi	
	Note: The antenn manufactur	antenna gain are derived from the gain information report provided by the		
	⊠ SISO	802.11a/n	/ac	
		CDD: 802	.11a/n/ac: Tx & Rx	
Smart System:			2.11n/ac: Tx & Rx	
			2.11n/ac: Tx & Rx	
	Diversity 802.11a: Tx & Rx			
TPC Function:		upport, ⊠Not Support		
DFS Function:	□Master	ster		



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	☐Slave with radar detection	⊠Slave without radar detection			
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 44 -/ 40MHz	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)			
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5260			
	The Middle channel	5280			
	The Highest channel	5320			
JEEE 202 44 / 40MU	The Lowest channel	5270			
IEEE 802.11n/ac 40MHz	The Highest channel	5310			
IEEE 802.11ac 80MHz	The Middle channel	5290			



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· 490.						
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 Lowest channel	5530				
	The Highest channel	5610				

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 802.11n/ac 40MHz	The Lowest channel	5755				
	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
Straddle 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(V)			
NTNV	22~23	3.8			

Remark:

NV: Normal Voltage NT: Normal Temperature

3.6 Description of Support Units

Description	Manufacturer	Model No.			
Motherboard*	Fibocom Wireless Inc.	EVKB-SOC_V1.3			
Adapter*	Zhuzhou Dachuan Electronic Technology Co.,Ltd.	DCT36W120300CN-B0			
Router ASUS GT-AXE11000 (FCC ID MSQ-RTAXJF00)					
Remark: the information with"*" are provided by client.					

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 External Antenna on the main PCB and no consideration of replacement.

The best case gain of the antenna is 5150MHz to 5250MHz: 4.29dBi;* 5250MHz to 5350MHz: 4.43dBi;* 5470MHz to 5725MHz: 3.68dBi;* 5725MHz to 5850MHz: 1.47dBi;*

*Note

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

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



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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:	Fraguenov rango (MUz)	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:	 5-30 60 50 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielder room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to 				



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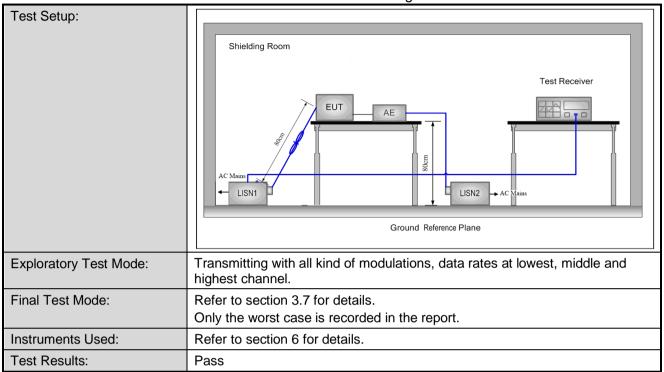
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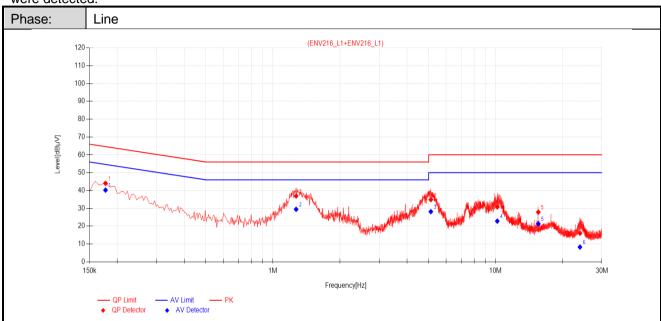
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Measurement Data

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

Oussi Book and Average measurement were performed at the frequencies with maximize

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



Final	Final 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	10.75	33.29	44.04	64.63	20.59	29.48	40.23	54.63	14.40	PASS
2	1.2705	10.78	26.13	36.91	56.00	19.09	18.70	29.48	46.00	16.52	PASS
3	5.1180	10.65	24.24	34.89	60.00	25.11	17.50	28.15	50.00	21.85	PASS
4	10.1715	10.63	20.16	30.79	60.00	29.21	12.21	22.84	50.00	27.16	PASS
5	15.5490	10.52	17.36	27.88	60.00	32.12	10.81	21.33	50.00	28.67	PASS
6	23.9190	10.31	5.74	16.05	60.00	43.95	-2.01	8.30	50.00	41.70	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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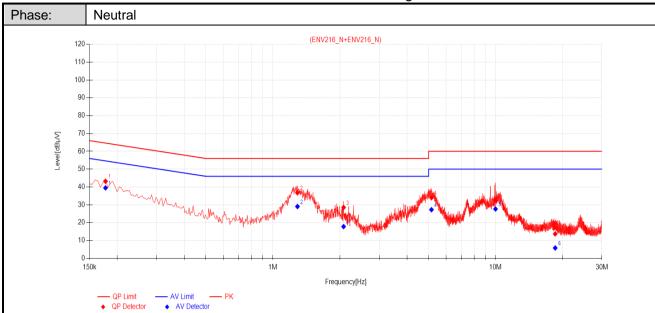
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Final	Final Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1770	10.71	32.52	43.23	64.63	21.40	28.78	39.49	54.63	15.14	PASS
2	1.2885	10.77	25.98	36.75	56.00	19.25	18.28	29.05	46.00	16.95	PASS
3	2.0760	10.77	17.76	28.53	56.00	27.47	7.03	17.80	46.00	28.20	PASS
4	5.1495	10.63	23.40	34.03	60.00	25.97	16.64	27.27	50.00	22.73	PASS
5	9.9870	10.67	21.90	32.57	60.00	27.43	17.00	27.67	50.00	22.33	PASS
6	18.5145	10.46	3.25	13.71	60.00	46.29	-4.65	5.81	50.00	44.19	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[$dB\mu V$] Value[$dB\mu V$]



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4.3 Duty Cycle

The detailed test data see: Appendix



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Se	ction 15.407(a)(iv)			
Test Method:	ANSI C63.10 :2013 Section 12.3.3.2				
Test Setup:	Power meter O	Power probe		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	ll kind of modulation	ıs, data rates		
Final Test Mode:	Refer to section 3.7	for details.			
Limit:	Frequency Band	Limit			
	5150-5250MHz	Not exceed 250mV	V(24dBm)		
	5250-5350MHz	The lesser of 250m	nW(24dBm) or 1	1+ 10logB	
	5470-5725MHz The lesser of 250mW(24dBm) or 11+ 10logB				
	5725-5850MHz	Not exceed 1W(30	OdBm)		
	*Where B is the 26	dB emission bandwi	idth 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:	PC Spectrum Analyzer O O O O O O O O O				
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:	Pass				
The detailed test data see: A	ppendix				



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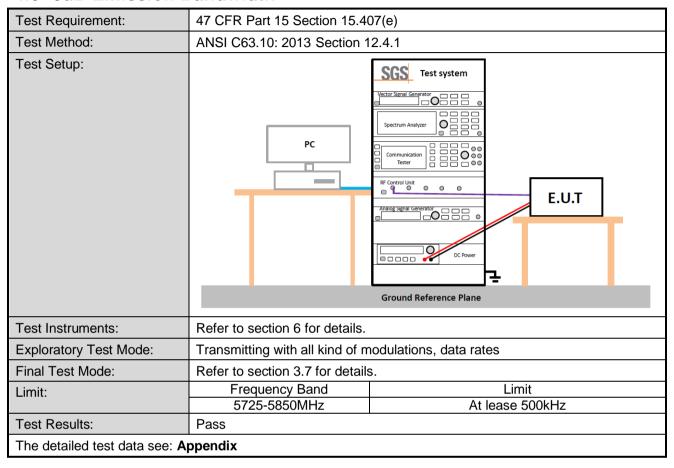


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4.6 6dB Emission Bandwidth





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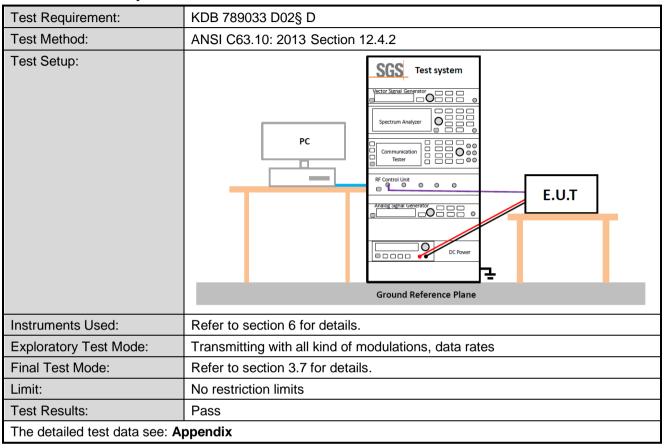


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4.7 99% Occupied Bandwidth





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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Sec	tion 15.407(a)(iv)			
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 Communication Communicat			
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 and 15.209
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:

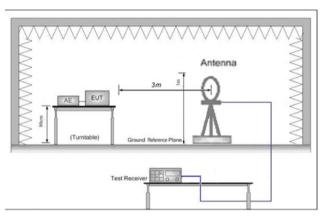
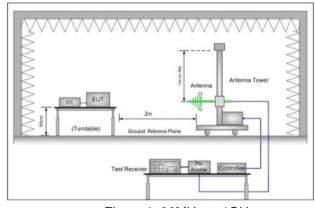


Figure 1. 9kHz to 30MHz



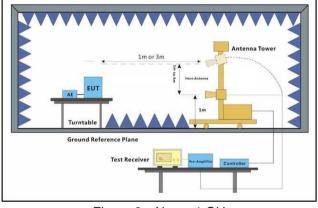


Figure 1. 30MHz to 1GHz

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.
- 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.			
	 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.			
	 At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB. 			
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 Sugar time = auto			
	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.			
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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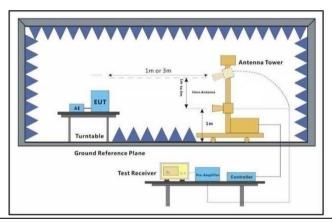
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)					
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 12.7				
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chaml	oer)			
Limit:	Frequency	Limit (dBuV/m)	Remark			
	30MHz-88MHz	40.0	Quasi-peak			
	88MHz-216MHz	Quasi-peak				
	216MHz-960MHz 46.0 Quasi-pea					
	960MHz-1GHz 54.0 Quasi-p					
	Abovo 1CHz	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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	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.
Evoloratory Toot Mada:	·
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
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	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		

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

		THORE SHOTET HE		1.5		
Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum	
Type	(µsec)	(µsec)		Percentage of	Number of	
				Successful	Trials	
				Detection		
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\{ $	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	
Aggregate (Radar Types 1-	4)		80%	120	
Note 1. Ch.	Note 1. Chart Dulce Dader Type 0 should be used for the detection bandwidth test, showed mayo					

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 Number	(Pulses Per Second)	Interval (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 Burst		Successful	Trials
						Detection	
5	50-100	5-20	1000-	1-3	8-20	80%	30
			2000				

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width	PRI (µsec)	Pulses	Hopping Rate	Hopping Sequence	Minimum Percentage of	Minimum Number of
Type	(µsec)	(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)

No.	Item	Measurement Uncertainty		
1	Total RF power, conducted	±0.54dB		
2	RF power density, conducted	±1.03dB		
3	Spurious emissions, conducted	±0.54dB		
4	Radio Frequency	±1.0 %		
5	Duty Cycle	±0.37%		
6	Occupied Bandwidth	±1.0 %		
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)		
		± 3.13dB (9k -30MHz)		
		± 4.88dB (30M -1GHz)		
8	Radiated Emission	± 4.75dB (1GHz to 18GHz)		
		± 4.77dB (Above 18GHz)		

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispt/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

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	2022/02/16	2023/02/15			
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16			
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR			
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27			
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14			
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	2022/02/14	2023/02/13			
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14			

CE Test System								
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 2022/02/19		2023/02/18			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18			
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14			



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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-01-01-15	2022/02/16	2023/02/15			
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	SUWI-01-02-04 2022/05/28				
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	WI-01-02-06 2022/11/23				
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	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	2021/05/14	2023/05/13			
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09			
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
		5180	25.76	5167.16	5192.92	
		5220	26.76	5206.16	5232.92	
		5240	26.40	5226.88	5253.28	
		5260	27.24	5246.20	5273.44	
		5300	26.04	5287.08	5313.12	
		5320	26.72	5306.64	5333.36	
		5500	25.72	5487.28	5513.00	
11a	Ant1	5580	24.56	5567.48	5592.04	
		5700	26.16	5687.24	5713.40	
		5720	26.96	5706.96	5733.92	
		5720_UNII-2C	18.04	5706.96	5725	
		5720_UNII-3	8.92	5725	5733.92	
		5745	26.80	5732.08	5758.88	
		5785	27.20	5771.20	5798.40	
		5825	25.20	5812.28	5837.48	
		5180	25.32	5167.44	5192.76	
		5220	26.12	5207.12	5233.24	
		5240	26.40	5226.76	5253.16	
		5260	25.12	5247.36	5272.48	Reporting only
		5300	26.72	5286.56	5313.28	
		5320	25.92	5307.32	5333.24	
	Ant1	5500	27.20	5486.40	5513.60	
11ac20SISO		5580	26.76	5566.68	5593.44	
		5700	26.80	5686.76	5713.56	
		5720	25.04	5707.64	5732.68	
		5720 UNII-2C	17.36	5707.64	5725	
		5720 UNII-3	7.68	5725	5732.68	
		<u>5</u> 745	26.24	5731.64	5757.88	
		5785	26.80	5771.68	5798.48	
		5825	27.00	5811.24	5838.24	
		5190	40.96	5169.76	5210.72	
		5230	41.20	5209.36	5250.56	
		5270	41.28	5249.36	5290.64	
		5310	41.44	5289.20	5330.64	
		5510	41.52	5489.44	5530.96	
44 400100	A 4.4	5550	41.60	5528.96	5570.56	
11ac40SISO	Ant1	5670	41.44	5649.36	5690.80	
		5710	41.44	5689.44	5730.88	
		5710_UNII-2C	35.56	5689.44	5725	
		5710 UNII-3	5.88	5725	5730.88	
		5755	41.20	5734.20	5775.40	
		5795	40.96	5774.52	5815.48	
	Ant1	5210	95.68	5165.20	5260.88	
		5290	97.44	5243.76	5341.20	
		5530	96.16	5484.24	5580.40	
44000100		5610	96.64	5563.76	5660.40	
11ac80SISO		5690	97.60	5643.44	5741.04	
		5690 UNII-2C	81.56	5643.44	5725	
		5690 UNII-3	16.04	5725	5741.04	
		5775	94.08	5729.72	5823.80	



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Remark:

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



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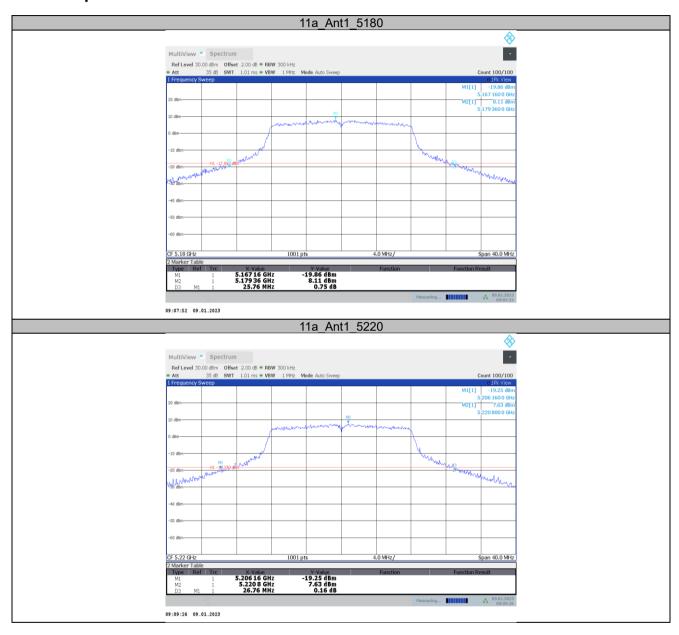


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Test Graphs





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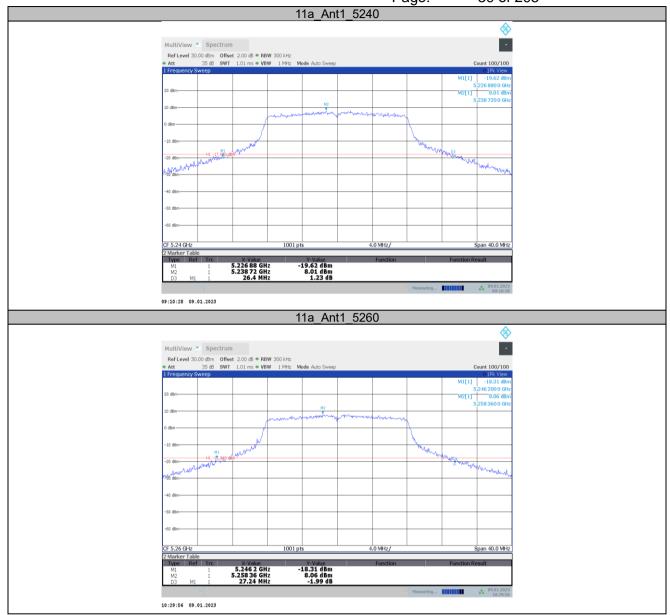
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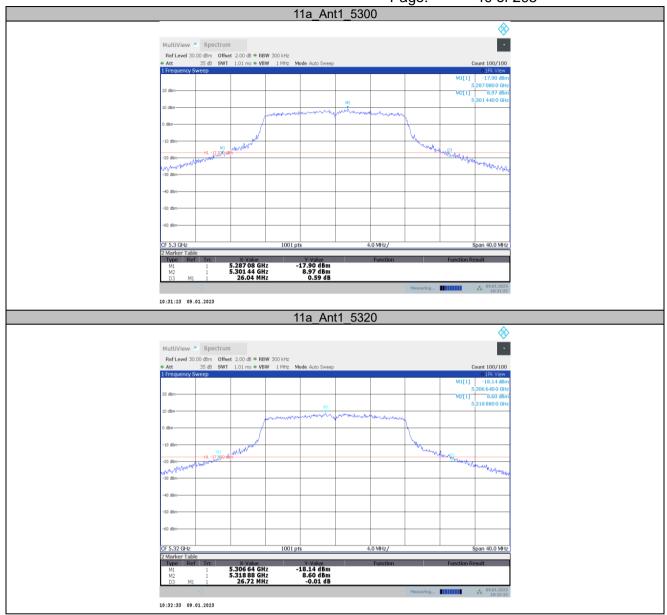
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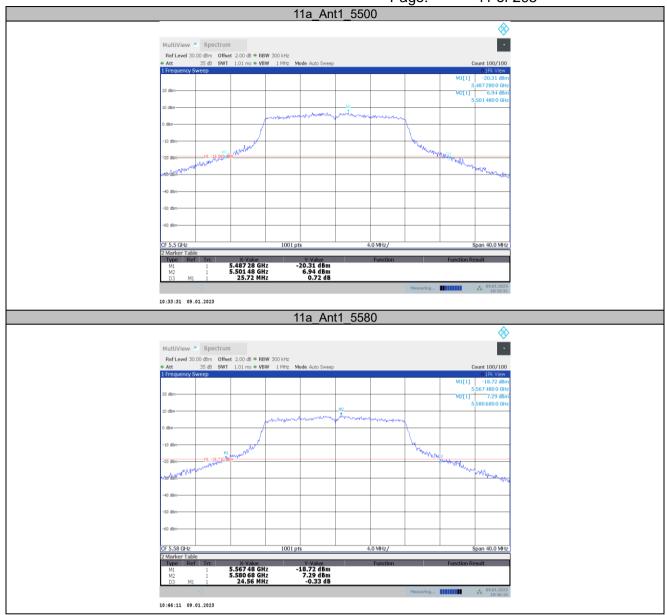
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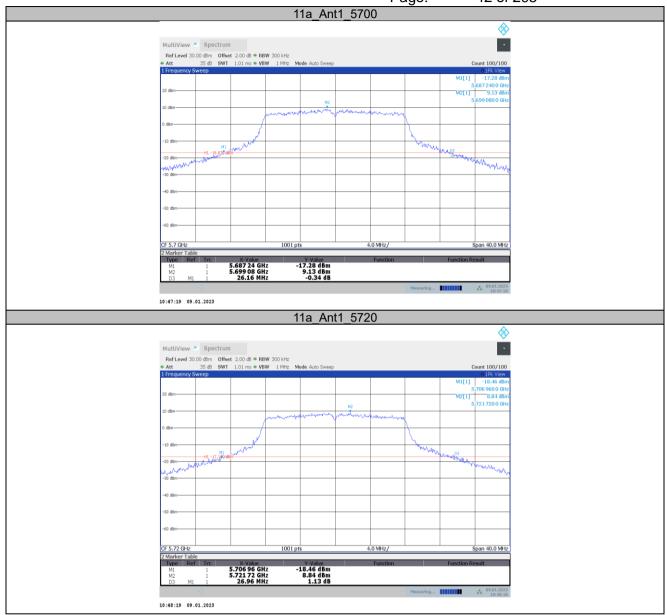
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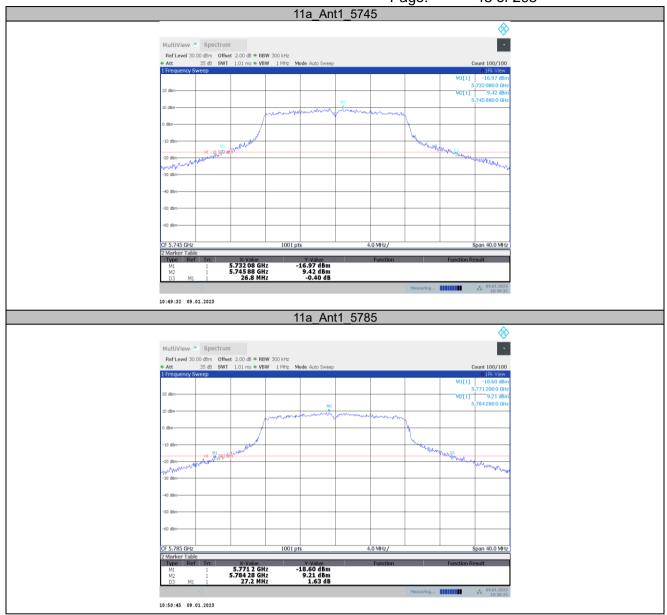
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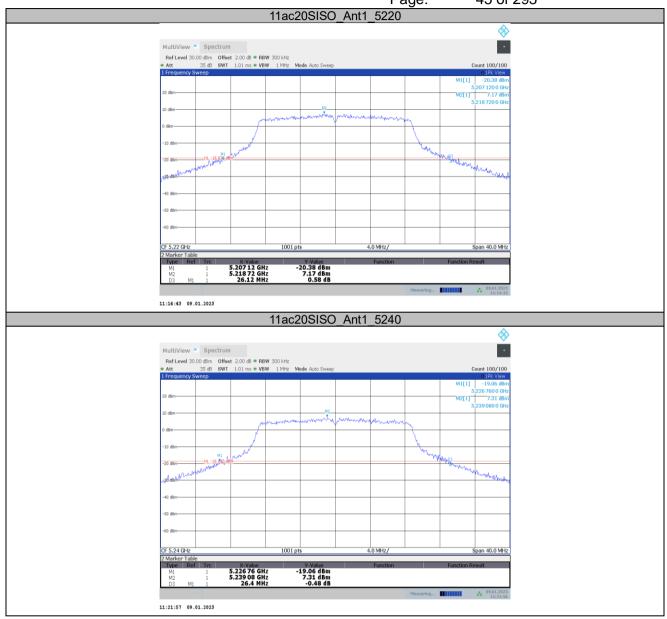
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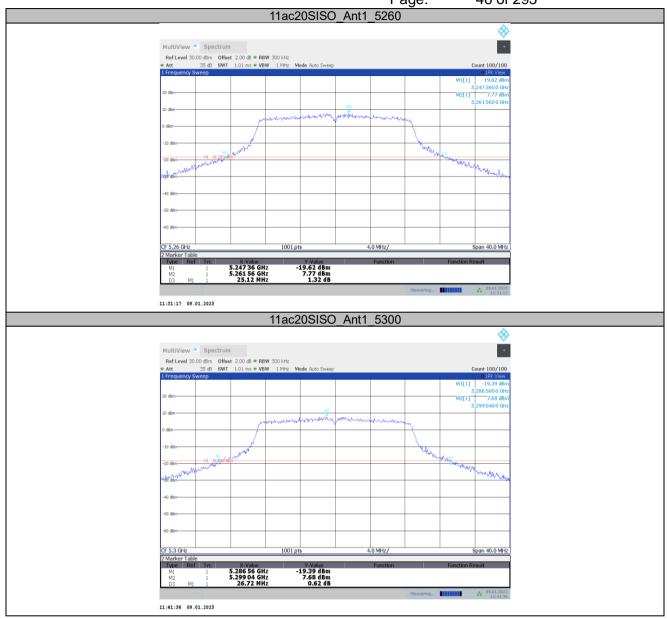
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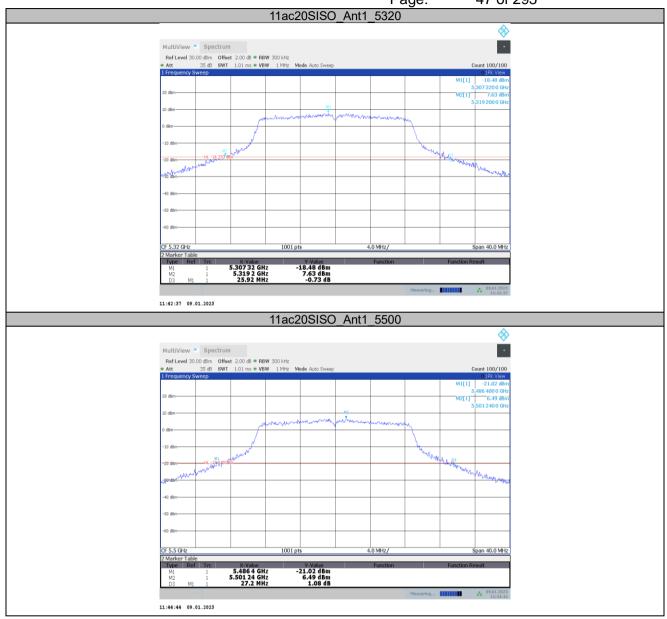
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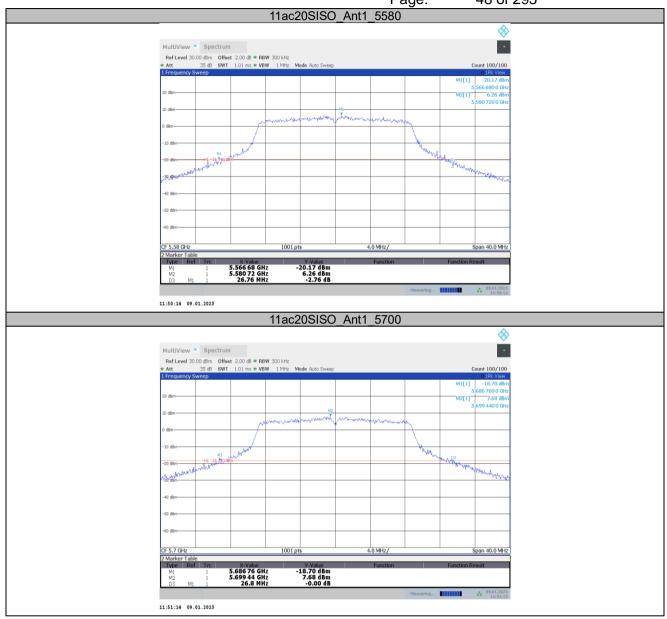
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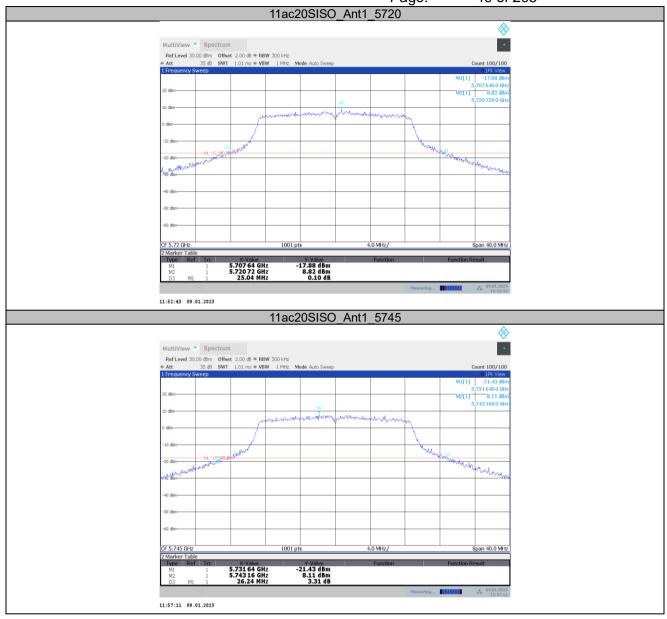
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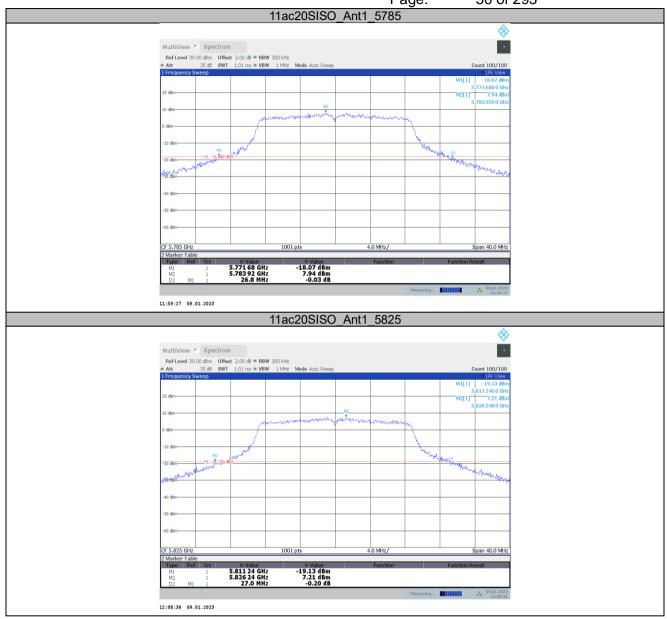
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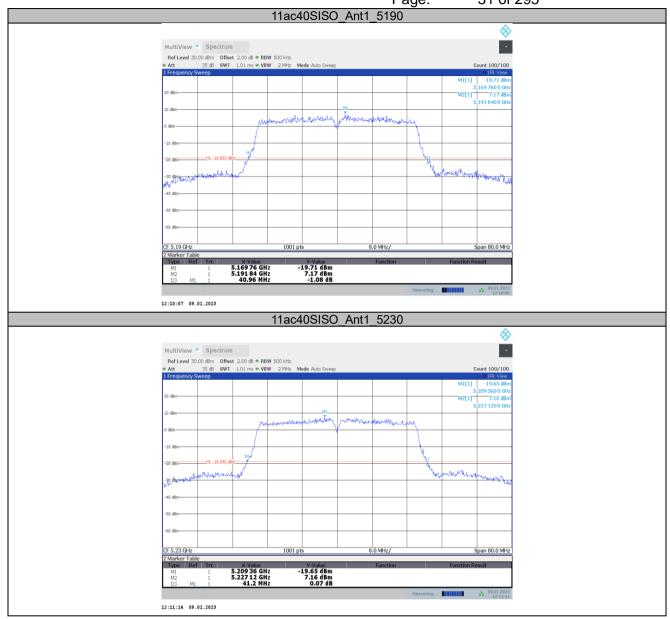
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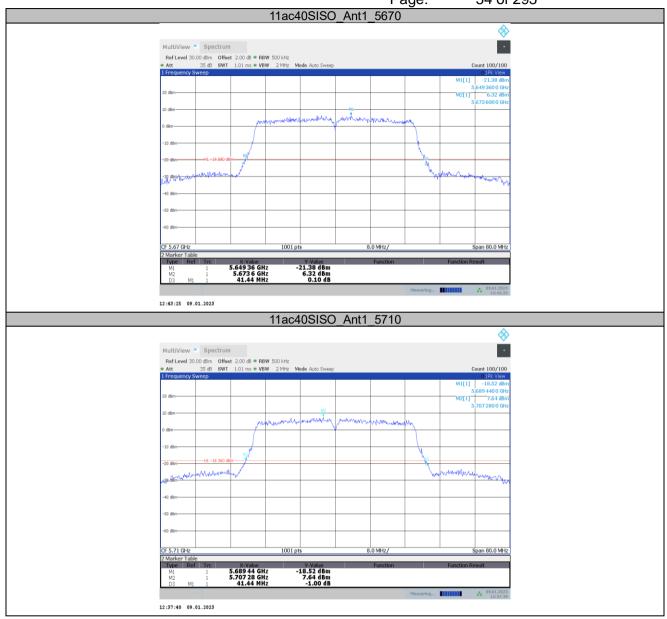
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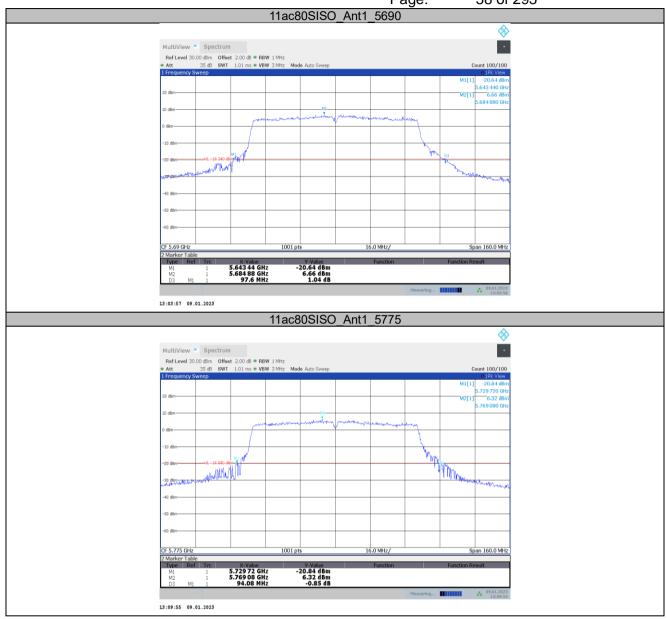
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Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a	Ant1	5180	17.36	5171.330	5188.690	Reporting only
		5220	17.397	5211.320	5228.717	
		5240	17.381	5231.339	5248.720	
		5260	17.417	5251.336	5268.753	
		5300	17.499	5291.285	5308.784	
		5320	17.517	5311.280	5328.796	
		5500	17.378	5491.317	5508.694	
		5580	17.408	5571.277	5588.686	
		5700	17.428	5691.290	5708.718	
		5720	17.562	5711.246	5728.808	
		5720_UNII-2C	13.754	5711.246	5725	
		5720_UNII-3	3.808	5725	5728.808	
		5745	17.576	5736.261	5753.837	
		5785	17.532	5776.265	5793.797	
		5825	17.482	5816.302	5833.784	
11ac20SISO	Ant1	5180	18.315	5170.851	5189.166	
		5220	18.331	5210.843	5229.174	
		5240	18.347	5230.818	5249.165	
		5260	18.343	5250.828	5269.171	
		5300	18.35	5290.821	5309.171	
		5320	18.373	5310.793	5329.166	
		5500	18.342	5490.791	5509.133	
		5580	18.316	5570.832	5589.148	
		5700	18.371	5690.779	5709.150	
		5720	18.391	5710.783	5729.174	
		5720 UNII-2C	14.217	5710.783	5725	
		5720 UNII-3	4.174	5725	5729.174	
		<u>5</u> 745	18.365	5735.804	5754.169	
		5785	18.374	5775.797	5794.170	
		5825	18.351	5815.827	5834.178	
11ac40SISO	Ant1	5190	36.769	5171.692	5208.461	
		5230	36.714	5211.702	5248.417	
		5270	36.693	5251.690	5288.383	
		5310	36.729	5291.635	5328.365	
		5510	36.677	5491.652	5528.328	
		5550	36.811	5531.628	5568.439	
		5670	36.725	5651.668	5688.393	
		5710	36.73	5691.648	5728.378	
		5710_UNII-2C	33.352	5691.648	5725	
		5710_UNII-3	3.378	5725	5728.378	
		5755	36.707	5736.651	5773.358	
		5795	36.695	5776.652	5813.347	
11ac80SISO	Ant1	5210	76.799	5172.102	5248.901	
		5290	77.066	5251.918	5328.983	
		5530	76.773	5491.826	5568.599	
		5610	76.769	5571.887	5648.655	
		5690	76.895	5651.847	5728.741	
		5690_UNII-2C	73.153	5651.847	5725	
		5690_UNII-3	3.741	5725	5728.741	
		<u>5</u> 775	76.962	5736.790	5813.752	



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Remark:

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



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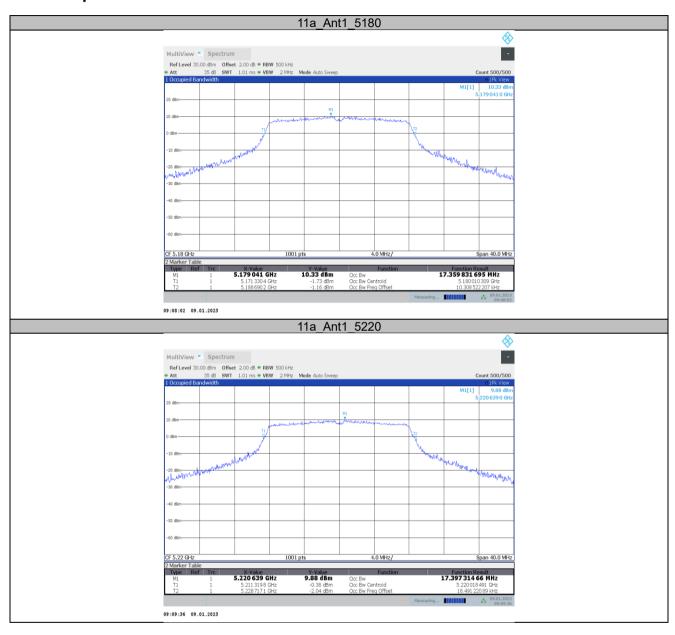


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Test Graphs





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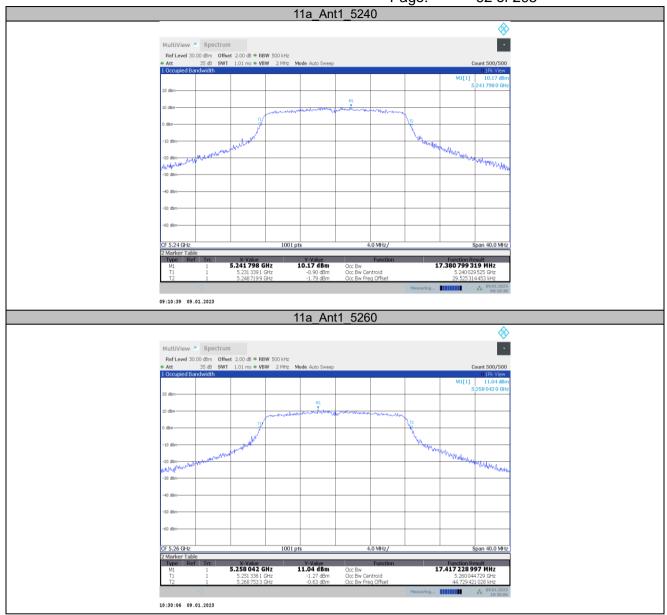
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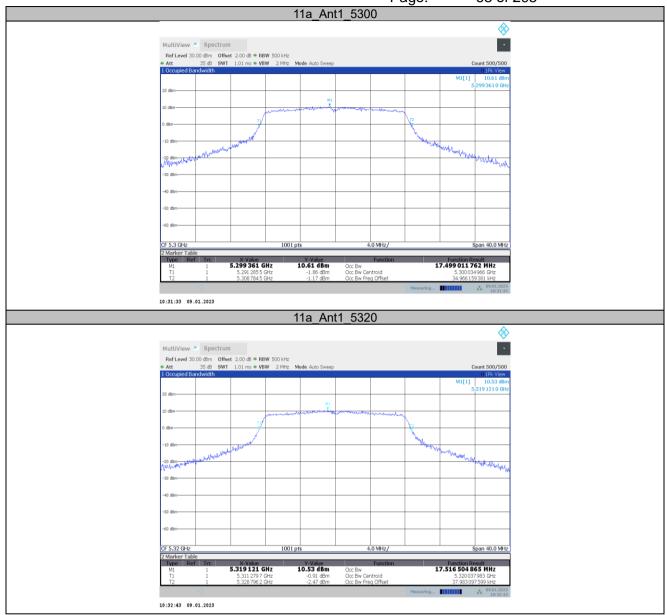
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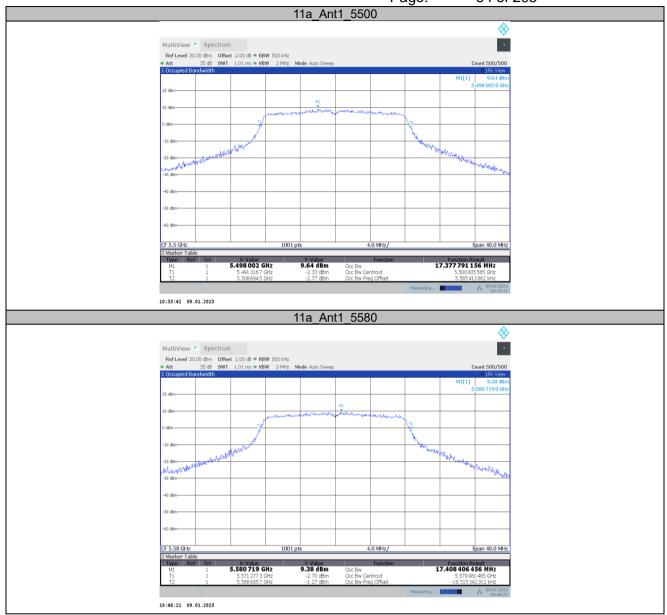
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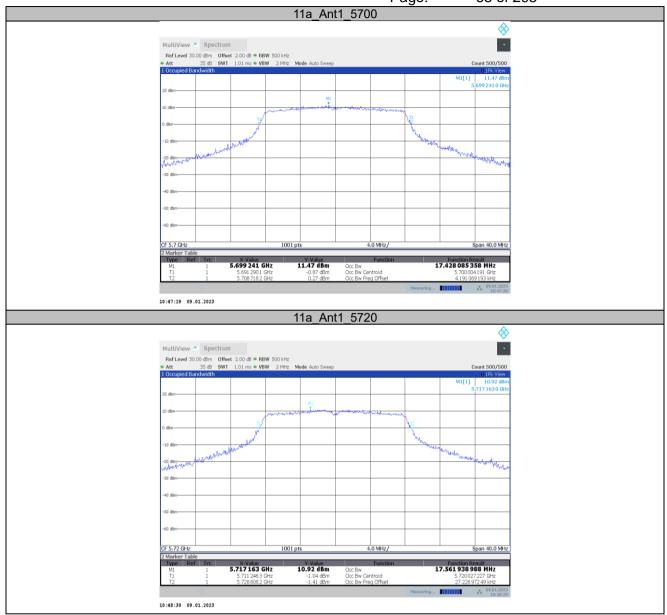
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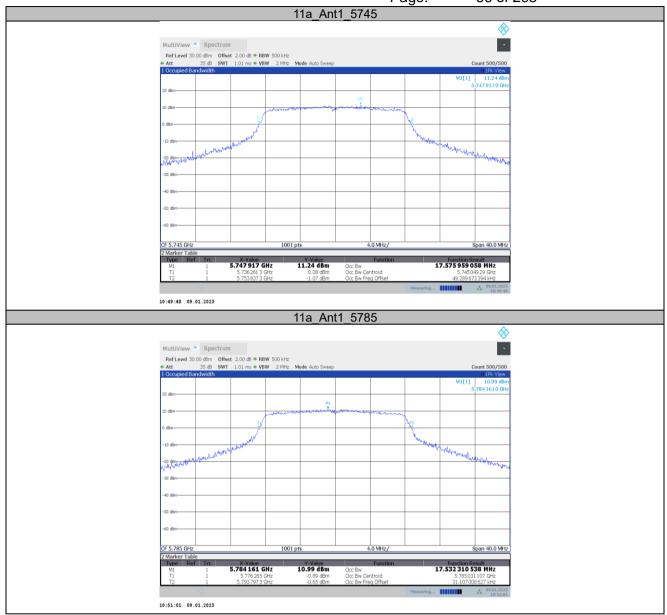
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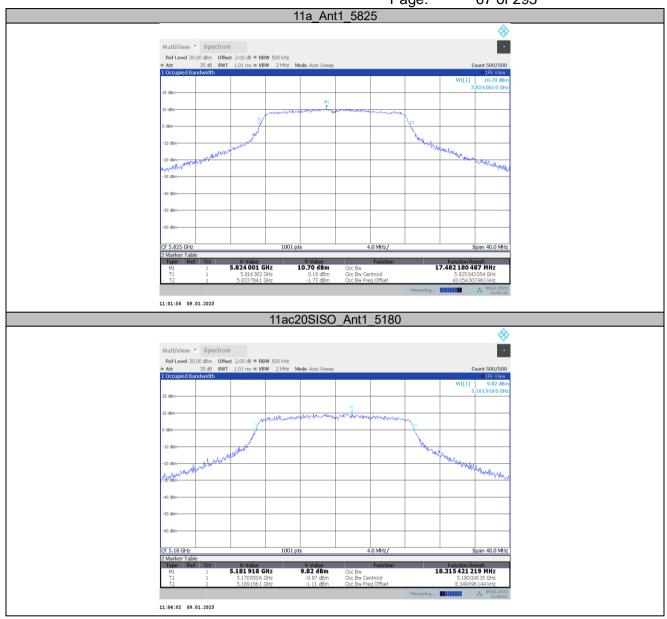
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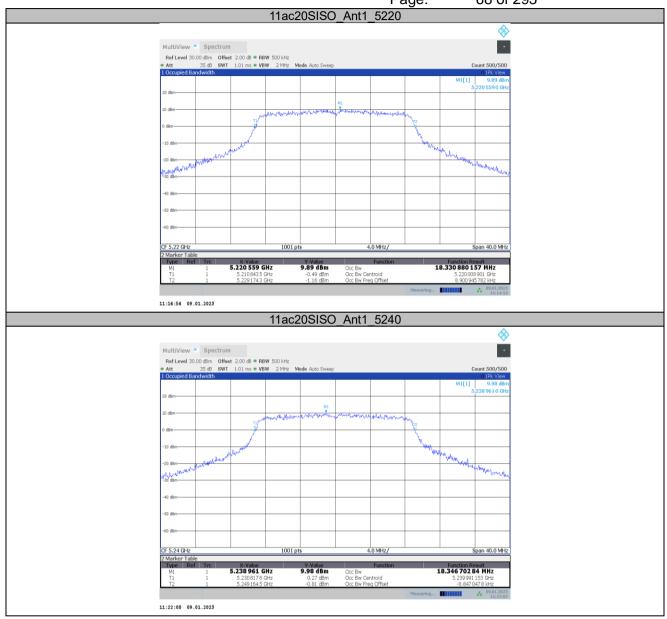
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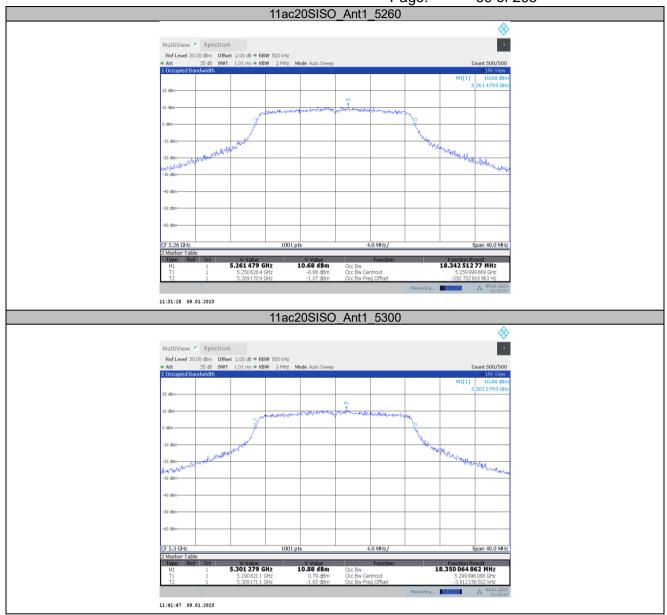
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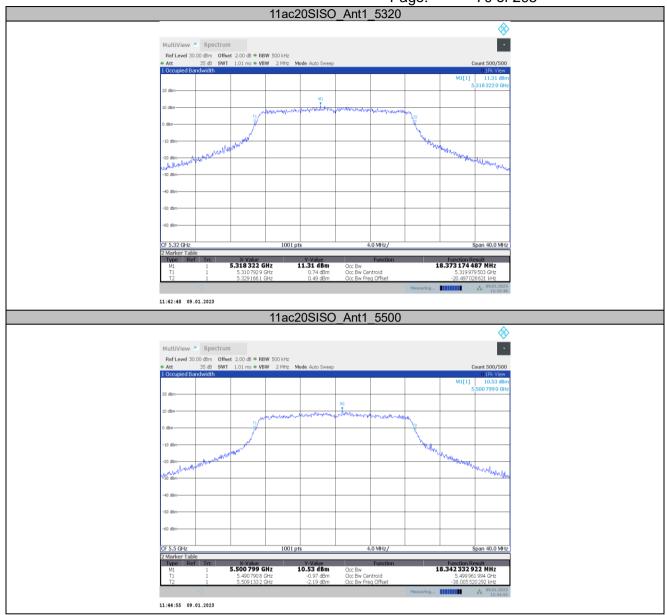
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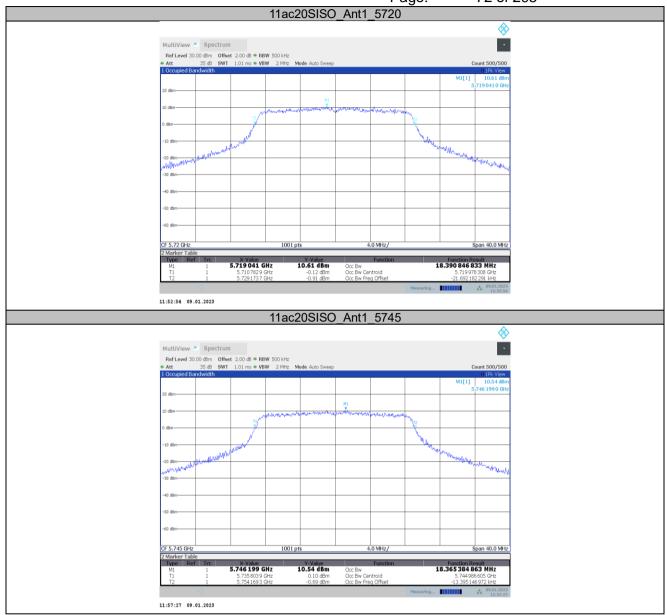
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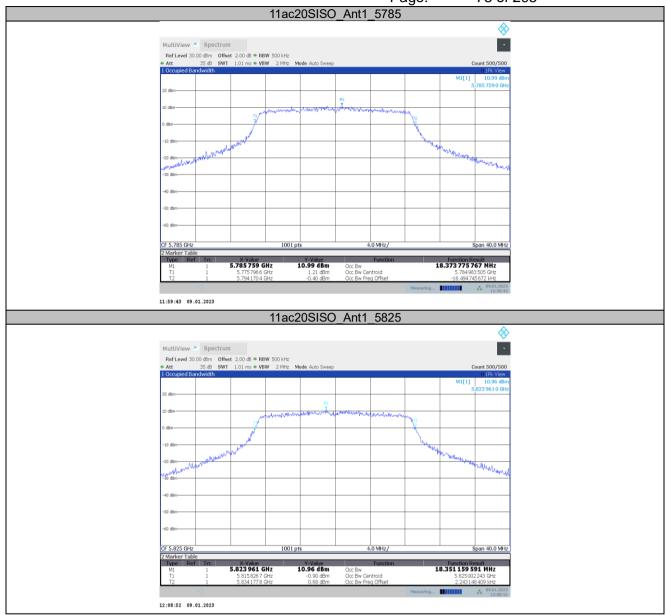
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