

Report No.: SEWM2209000164RG05

Rev.: 01

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### **TEST REPORT**

Application No.: SEWM2209000164RG

Applicant: Quectel Wireless Solutions Co., Ltd.

Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Minhang District, Shanghai, China 200233

Manufacturer: Quectel Wireless Solutions Co., Ltd.

Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Minhang District, Shanghai, China 200233

**EUT Description**: Multi-mode Smart LTE Module

Model No.: SC206E-NA

Trade Mark: Quectel

FCC ID: XMR2022SC206ENA

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

**Date of Receipt:** 2022/05/07

**Date of Test:** 2022/05/10 to 2022/05/30

**Date of Issue:** 2022/09/07

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		2022/09/07		Original

Prepared By	weller lin
	(Weller Liu) / Test Engineer
Checked By	well wei'
	(Well Wei) / Reviewer



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2 Test Summary

	Summar 			Test	
Test Item	Band <sup>[1]</sup>	FCC rules No.	Test Requirements	Result	Result
Antenna Requirement		15.203/15.407(a)		Clause 4.1	PASS
26dB Emission	Band I	15.407(a)(1)		Clause	Danartina
Bandwidth	Band II-A	15.407(a)(2)	No limit.	4.5	Reporting only
Danuwidin	Band II-C	15.407(a)(2)		4.5	Offity
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS
	Band I				
99% Occupied	Band II-A	KDB 789033	No limit.	Clause	Reporting
Bandwidth	Band II-C	D02§ D	NO mint.	4.7	only
	Band III				
	Band I				
Duty Cycle	Band II-A		No limit.	Clause	Reporting
Duty Cycle	Band II-C		NO IIIIIt.	4.3	only
	Band III				
Maximum	Band I	15.407(a)	< 250mW		
Conducted	Band II-A	15 407(2)(2)	<min{250mw,11dbm+10*lg(ebw)}< td=""><td>Clause</td><td rowspan="3">PASS</td></min{250mw,11dbm+10*lg(ebw)}<>	Clause	PASS
Output Power	Band II-C	15.407(a)(2)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4.4	
Output Fower	Band III	15.407(a)(3)	< 1W		
	Band I	15.407(a)	<11dBm/MHz		
Maximum Power	Band II-A	15 407(a)(2)	<11dBm/MHz	Clause	PASS
Spectral Density	Band II-C	15.407(a)(2) <11dBm/MH		4.8	PASS
	Band III	15.407(a)(3)	<30dBm/500KHz	ı	
	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). F<1GHz:		PASS
	Band III	15.407(b) 15.209	§15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP) a) 27 dBm/MHz at frequencies from		PASS



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			<u> </u>		
			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
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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Remark for SEWA2205000012RG05 issue on 2022/06/08:

According to customer statement, SC200E-NA has two versions of samples, full test LPDDR4X version, LPDDR3 version to check LPDDR4X worse mode, the final report only presents the worst data of the two versions.

Remark for SEWM2209000164RG05 issue on 2022/09/07:

This test report (Report No.: SEWM2209000164RG05 issue on 2022/09/07) is based on the original report with report number SEWA2205000012RG05 issue on 2022/06/08.

Review this report and original report, this report just changing FCC ID, Model No. and Software Version, Which according to the declaration letter from client.

Therefore in this report all items do not need to retest and all test data in this report are based on the previous report with report number SEWA2205000012RG05 issue on 2022/06/08.





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#### 3 General Information

#### 3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

#### 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:	Lves 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:	Multi-mode Smart LTE Module		
Model No.:	SC206E-NA		
Trade Mark:	Quectel		
Hardware Version:	LPDDR4X: LPDDR3: R		
Software Version:	SC206ENA	NAR60A02	
	802.11a:	20 MHz channel bandwidth	
WLAN Mode Supported:	802.11n:	20 MHz / 40 MHz channel bandwidth	
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth	
Operation Frequency:	5150MHz to 5250MHz to 5470MHz to 5725MHz to	o 5350MHz o 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:		, 🔲 Integrated	
Antenna Gain:	5150MHz to 5250MHz: -0.67dBi(Ant0); 5250MHz to 5350MHz: -0.19dBi(Ant0); 5470MHz to 5725MHz: 1.28dBi(Ant0); 5725MHz to 5850MHz: 1.1dBi(Ant0);		
Note:  The antenna gain are derived from the gain information report promanufacturer.			
	⊠ siso	802.11a/n/ac	
		CDD: 802.11a/n/ac: Tx & Rx	
Smart System:	□ МІМО	STBC: 802.11n/ac: Tx & Rx	
		TXBF: 802.11n/ac: Tx & Rx	
	Diversity		
RF Cable*:	⊠Provided by client		
	0.5dB		
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this			

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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 of Operation Operating Frequency Range (in each Band)	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)		
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5180		
	The Middle channel	5200		
	The Highest channel	5240		
IEEE 202 415/00 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		
IEEE 000 44 m/s s 40 MHz	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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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 000 44m/cc 40MI I-	The Lowest channel	5755					
IEEE 802.11n/ac 40MHz	The Highest channel	5795					
IEEE 802.11ac 80MHz	The Middle channel	5775					



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#### 3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests			
Relative Humidity	44~60 % RH Ambient			
Value	Temperature(°C) Voltage(V)			
NTNV	22~25	3.8		
LTNV	-35	3.8		
HTNV	75	3.8		

Remark:

NV: Normal Voltage NT: Normal Temperature

LT: Low Extreme Test Temperature HT: High Extreme Test Temperature

### 3.6 Description of Support Units

Description	Manufacturer	Model No.				
Mother board	Quectel	EVB-G2_V1.3				
Remark: all above the information of table 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
Wiodulation Type	3130 - Data Nate	IVIIIVIO - Data Nate
802.11a	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	1
802.11n (HT 40)	MCS0 (13.5 Mbps)	1
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	1
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

Non-standard antenna connector is used.

The antenna peak gain of EUT is less than 6 dBi, Therefore, it is not necessary to reduce maximum peak output power limit.



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#### 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section	15.407(b)			
Test Method:	ANSI C63.10: 2013 Section 6.2				
Test Frequency Range:	150kHz to 30MHz				
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz			
Limit:	Ereguency range (MHz) Limit (dBuV)				
	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:	<ul> <li>5-30</li></ul>				



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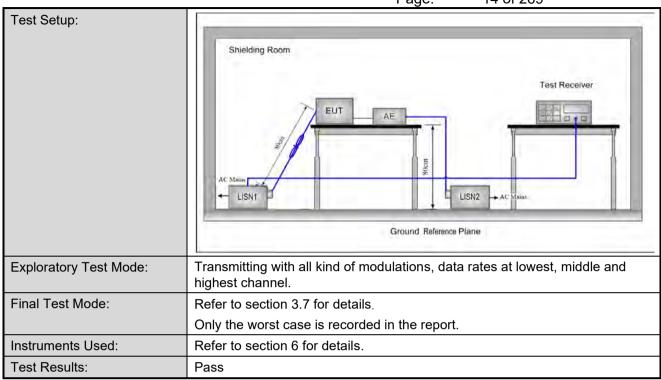
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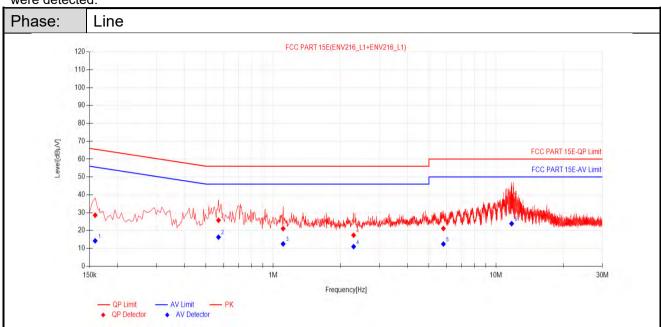
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#### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Fin	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	0.1590	10.67	17.90	28.57	65.52	36.95	3.57	14.24	55.52	41.28	PASS
2	0.5685	10.53	15.22	25.75	56.00	30.25	5.76	16.29	46.00	29.71	PASS
3	1.1085	10.64	10.41	21.05	56.00	34.95	1.89	12.53	46.00	33.47	PASS
4	2.2965	10.66	6.72	17.38	56.00	38.62	0.32	10.98	46.00	35.02	PASS
5	5.8065	10.67	10.47	21.14	60.00	38.86	1.79	12.46	50.00	37.54	PASS
6	11.7510	10.59	27.64	38.23	60.00	21.77	13.27	23.86	50.00	26.14	PASS

#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Reading + Factor(Lisn factor + cable loss).



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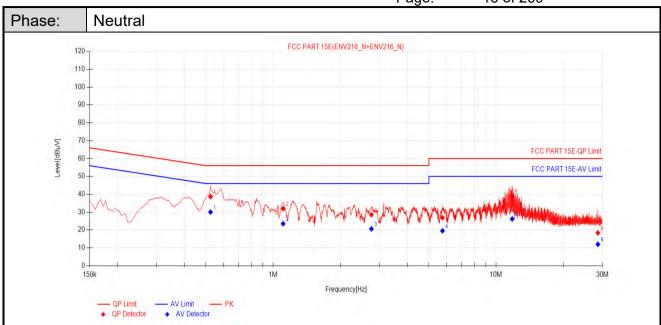
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Fin	Final Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.5235	10.78	27.92	38.70	56.00	17.30	19.24	30.02	46.00	15.98	PASS
2	1.1085	10.71	21.21	31.92	56.00	24.08	12.82	23.53	46.00	22.47	PASS
3	2.7600	10.68	17.93	28.61	56.00	27.39	9.95	20.63	46.00	25.37	PASS
4	5.7525	10.59	16.31	26.90	60.00	33.10	8.94	19.53	50.00	30.47	PASS
5	11.8230	10.64	28.16	38.80	60.00	21.20	15.54	26.18	50.00	23.82	PASS
6	28.6575	10.45	7.94	18.39	60.00	41.61	1.56	12.01	50.00	37.99	PASS

#### Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level = Reading + Factor(Lisn factor + cable loss).



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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	ection 15.407(a)				
Test Method:	ANSI C63.10 :2013	ANSI C63.10 :2013 Section11.9.2.3				
Test Setup:	Power restar	E.U.T				
Test Instruments:	Refer to section 6 f	meter (Detector function: Peak)				
Exploratory Test Mode:		all 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(24dBm)				
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB				
	5470-5725MHz	70-5725MHz The lesser of 250mW(24dBm) or 11+ 10logB				
	5725-5850MHz	350MHz Not exceed 1W(30dBm)				
	*Where B is the 26	6dB emission bandwidth in MHz				
Test Results:	Pass					
The detailed test data see: A	ppendix					



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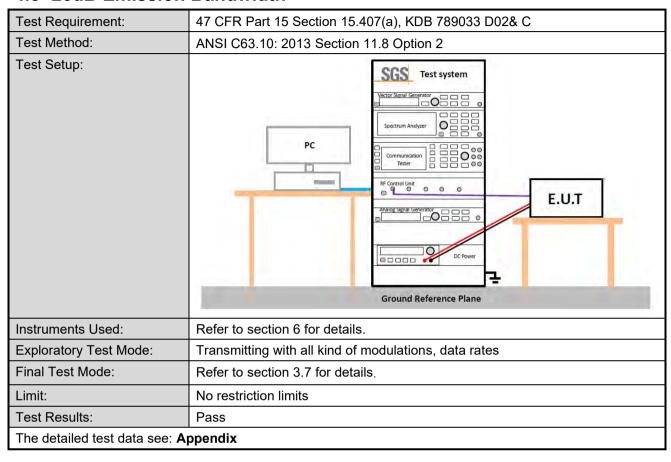


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#### 4.5 26dB Emission Bandwidth





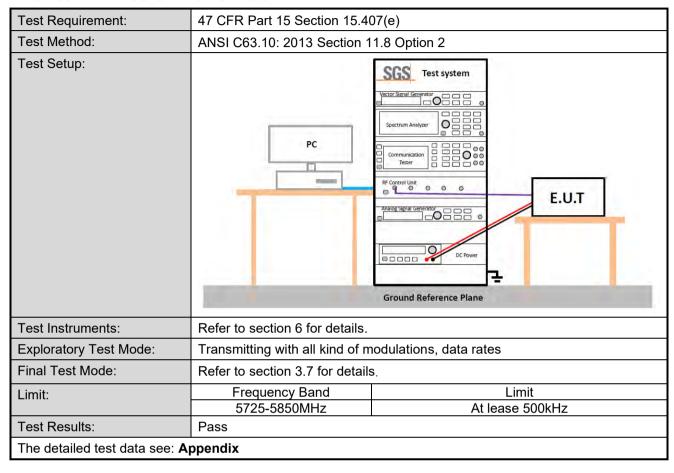


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#### 4.6 6dB Emission Bandwidth





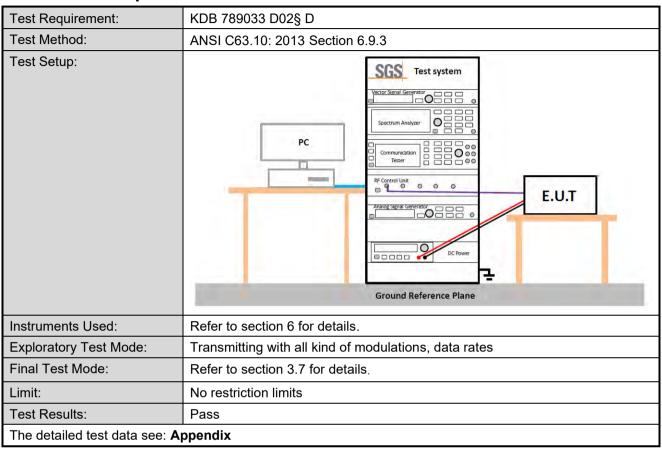


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### 4.7 99% Occupied Bandwidth







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### 4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Sec	tion 15.407(a)			
Test Method:	ANSI C63.10: 2013 KDB 789033 D02 v0				
Test Setup:	PC	SGS Test system  Vector Signal Generator  Spectrum Analyzer  Communication  FE Control Unit  Communication  DC Prower  E.U.T  Ground Reference Plane			
Instruments Used:	Refer to section 6 fo	r details.			
Exploratory Test Mode:	Transmitting with all	kind of modulations, data rates			
Final Test Mode:	Refer to section 3.7	for details.			
Limit:	Frequency Band	Limit			
	5150-5250MHz The power spectral density less than 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 Setup:	

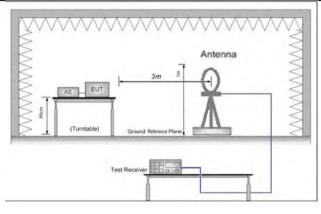
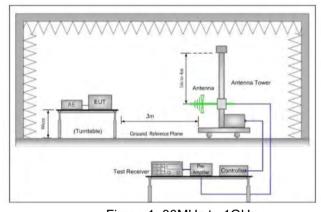


Figure 1. 9kHz to 30MHz



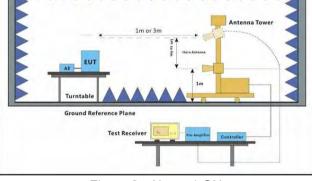


Figure 1. 30MHz to 1GHz

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.
- 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



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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 20d8 lower than the limit line was not reported. k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. l. 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 VBW = 300 kHz VBW ≥ 30 kHz Detector = 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 ≥ [3 *RBW] Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. Sweep time = auto Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss = Preamplifier Factor).  Exploratory Test Mode: Refer to section 3.7 for details.  Test Results: Pass The detailed test data see: Appendix		1 agc. 2+ 01 200
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. l. 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 = 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 ≥ [3 "RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).  Exploratory Test Mode: Refer to section 3.7 for details.  Instruments Used: Refer to section 6 for details.		· · · · · · · · · · · · · · · · · · ·
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 were the highest point could be found when testing, so only the harmonics had been displayed.  l. At a measurement distance of 1 meter the limit line was increased by 20°LOG(3/1) = 9.54 dB.  Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = 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 ≥ [3 "RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss − Preamplifier Factor).  Exploratory Test Mode:  Refer to section 3.7 for details.  Instruments Used:  Refer to section 6 for details.		f. The test-receiver system was set to Peak Detect Function and Specified
Transmitting mode, and found the X axis positioning which it is worse case.  i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. l. At a measurement distance of 1 meter the limit line was increased by 20°LOG(3/1) = 9.54 dB.  Test Configuration:  Measurements Below 1000MHz  RBW = 120 kHz  VBW = 300 kHz  Detector = 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 ≥ [3 *RBW]  Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. Sweep time = auto Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).  Exploratory Test Mode: Final Test Mode: Refer to section 3.7 for details.  Refer to section 6 for details.		g. Test the EUT in the outermost channels.
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.  1. 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 = 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 ≥ [3 *RBW]  Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.  Sweep time = auto  Perform a trace average of at least 100 traces.  Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).  Exploratory Test Mode:  Transmitting with all kind of modulations, data rates.  Final Test Mode:  Refer to section 6 for details.  Test Results:  Pass		· · · · · · · · · · · · · · · · · · ·
the result which was 20dB lower than the limit line was not reported  k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.  l. At a measurement distance of 1 meter the limit line was increased by 20°LOG(3/1) = 9.54 dB.  Measurements Below 1000MHz  • RBW = 120 kHz  • VBW = 300 kHz  • Detector = 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 ≥ [3 *RBW]  • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.  • Sweep time = auto  • Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).  Exploratory Test Mode:  Transmitting with all kind of modulations, data rates.  Final Test Mode:  Refer to section 3.7 for details.  Refer to section 6 for details.		i. Repeat above procedures until all frequencies measured was complete.
highest point could be found when testing, so only the harmonics had been displayed.  1. 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 = 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 ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss - Preamplifier Factor).  Exploratory Test Mode: Final Test Mode: Refer to section 3.7 for details.  Refer to section 6 for details.  Test Results: Pass		
Test Configuration:  Measurements Below 1000MHz  RBW = 120 kHz  VBW = 300 kHz  Detector = 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  Detector = Reak  Sweep time = auto  Trace mode = max hold Average Measurements Above 1000MHz  RBW = 1 MHz  VBW ≥ [3 *RBW]  Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.  Sweep time = auto Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).  Exploratory Test Mode: Transmitting with all kind of modulations, data rates.  Final Test Mode: Refer to section 3.7 for details.  Test Results: Pass		highest point could be found when testing, so only the harmonics had been
<ul> <li>RBW = 120 kHz</li> <li>VBW = 300 kHz</li> <li>Detector = Peak</li> <li>Trace mode = max hold</li> <li>Peak Measurements Above 1000 MHz</li> <li>RBW = 1 MHz</li> <li>VBW ≥ 3 MHz</li> <li>Detector = Peak</li> <li>Sweep time = auto</li> <li>Trace mode = max hold</li> <li>Average Measurements Above 1000MHz</li> <li>RBW = 1 MHz</li> <li>VBW ≥ [3 *RBW]</li> <li>Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2).</li> <li>Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.</li> <li>Sweep time = auto</li> <li>Perform a trace average of at least 100 traces.</li> <li>Value = Reading + Factor(Antenna Factor + Cable loss - Preamplifier Factor).</li> <li>Exploratory Test Mode:</li> <li>Transmitting with all kind of modulations, data rates.</li> <li>Final Test Mode:</li> <li>Refer to section 3.7 for details.</li> <li>Test Results:</li> <li>Pass</li> </ul>		
VBW = 300 kHz     Detector = 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 ≥ [3 *RBW]     Detector = RBK (power averaging), if span / (# of points in sweep) ≤ (RBW / 2).     Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.     Sweep time = auto     Perform a trace average of at least 100 traces.     Value = Reading + Factor(Antenna Factor + Cable loss − Preamplifier Factor).  Exploratory Test Mode: Refer to section 3.7 for details.  Instruments Used: Refer to section 6 for details.  Test Results: Pass	Test Configuration:	Measurements Below 1000MHz
Detector = 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 ≥ [3 *RBW] Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. Sweep time = auto Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).  Exploratory Test Mode: Transmitting with all kind of modulations, data rates.  Final Test Mode: Refer to section 3.7 for details.  Test Results: Pass		• RBW = 120 kHz
Trace mode = max hold     Peak Measurements Above 1000 MHz     RBW = 1 MHz     VBW ≥ 3 MHz     Detector = Peak     Sweep time = auto     Trace mode = max hold     Average Measurements Above 1000MHz     RBW = 1 MHz     VBW ≥ [3 *RBW]     Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.     Sweep time = auto     Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss − Preamplifier Factor).  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.		• VBW = 300 kHz
Peak Measurements Above 1000 MHz  RBW = 1 MHz  VBW ≥ 3 MHz  Detector = Peak  Sweep time = auto  Trace mode = max hold Average Measurements Above 1000MHz  RBW = 1 MHz  VBW ≥ [3 *RBW]  Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.  Sweep time = auto  Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).  Exploratory Test Mode:  Transmitting with all kind of modulations, data rates.  Final Test Mode:  Refer to section 3.7 for details.  Test Results:  Pass		Detector = Peak
<ul> <li>RBW = 1 MHz</li> <li>VBW ≥ 3 MHz</li> <li>Detector = Peak</li> <li>Sweep time = auto</li> <li>Trace mode = max hold</li> <li>Average Measurements Above 1000MHz</li> <li>RBW = 1 MHz</li> <li>VBW ≥ [3 *RBW]</li> <li>Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2).</li> <li>Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.</li> <li>Sweep time = auto</li> <li>Perform a trace average of at least 100 traces.</li> <li>Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).</li> <li>Exploratory Test Mode:</li> <li>Transmitting with all kind of modulations, data rates.</li> <li>Final Test Mode:</li> <li>Refer to section 3.7 for details.</li> <li>Instruments Used:</li> <li>Refer to section 6 for details.</li> <li>Test Results:</li> </ul>		
VBW ≥ 3 MHz     Detector = Peak     Sweep time = auto     Trace mode = max hold     Average Measurements Above 1000MHz     RBW = 1 MHz     VBW ≥ [3 *RBW]     Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.     Sweep time = auto     Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss − Preamplifier Factor).  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.		Peak Measurements Above 1000 MHz
Detector = Peak     Sweep time = auto     Trace mode = max hold     Average Measurements Above 1000MHz     RBW = 1 MHz     VBW ≥ [3 *RBW]     Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.     Sweep time = auto     Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss − Preamplifier Factor).  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.		• RBW = 1 MHz
Sweep time = auto     Trace mode = max hold     Average Measurements Above 1000MHz     RBW = 1 MHz     VBW ≥ [3 *RBW]     Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.     Sweep time = auto     Perform a trace average of at least 100 traces.     Value = Reading + Factor(Antenna Factor + Cable loss − Preamplifier Factor).  Exploratory Test Mode:  Transmitting with all kind of modulations, data rates.  Final Test Mode:  Refer to section 3.7 for details.  Test Results:  Pass		• VBW ≥ 3 MHz
<ul> <li>Trace mode = max hold         Average Measurements Above 1000MHz         <ul> <li>RBW = 1 MHz</li> <li>VBW ≥ [3 *RBW]</li> <li>Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.</li> <li>Sweep time = auto</li> <li>Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).</li> </ul> </li> <li>Exploratory Test Mode: Transmitting with all kind of modulations, data rates.</li> <li>Final Test Mode: Refer to section 3.7 for details.</li> <li>Instruments Used: Refer to section 6 for details.</li> <li>Test Results: Pass</li> </ul>		Detector = Peak
Average Measurements Above 1000MHz  • RBW = 1 MHz  • VBW ≥ [3 *RBW]  • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.  • Sweep time = auto • Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).  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		·
<ul> <li>RBW = 1 MHz</li> <li>VBW ≥ [3 *RBW]</li> <li>Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.</li> <li>Sweep time = auto</li> <li>Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).</li> <li>Exploratory Test Mode: Transmitting with all kind of modulations, data rates.</li> <li>Final Test Mode: Refer to section 3.7 for details.</li> <li>Instruments Used: Refer to section 6 for details.</li> <li>Test Results: Pass</li> </ul>		Trace mode = max hold
<ul> <li>VBW ≥ [3 *RBW]</li> <li>Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.</li> <li>Sweep time = auto</li> <li>Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).</li> <li>Exploratory Test Mode: Transmitting with all kind of modulations, data rates.</li> <li>Final Test Mode: Refer to section 3.7 for details.</li> <li>Instruments Used: Refer to section 6 for details.</li> <li>Test Results: Pass</li> </ul>		Average Measurements Above 1000MHz
Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.     Sweep time = auto     Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss − Preamplifier Factor).  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		• RBW = 1 MHz
Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.  • Sweep time = auto • Perform a trace average of at least 100 traces. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).  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		• VBW ≥ [3 *RBW]
Perform a trace average of at least 100 traces.     Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).  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		Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).  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		·
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		ů .
Final Test Mode: Refer to section 3.7 for details.  Instruments Used: Refer to section 6 for details.  Test Results: Pass		Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).
Instruments Used: Refer to section 6 for details.  Test Results: Pass	Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Test Results: Pass	Final Test Mode:	Refer to section 3.7 for details.
	Instruments Used:	Refer to section 6 for details.
The detailed test data see: Appendix	Test Results:	Pass
	The detailed test data see	e: Appendix



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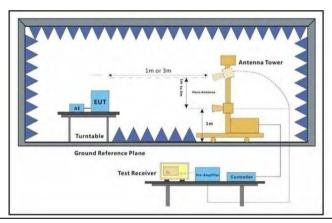
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#### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)					
Test Method:	ANSI C63.10: 2013 Section	11.12				
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chamb	per)			
Limit:	Frequency	Limit (dBuV/m)	Remark			
	30MHz-88MHz         40.0         Quasi-peak           88MHz-216MHz         43.5         Quasi-peak					
	216MHz-960MHz 46.0 Quasi-peak					
	960MHz-1GHz 54.0 Quasi-peak					
	Above 1GHz	54.0	Average Value			
	Above IGHZ	74.0	Peak Value			

#### Test Setup:



#### 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.
- 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.



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	1 age. 20 01 209					
	i. Repeat above procedures until all frequencies measured was complete.					
Test Configuration:	Measurements Below 1000MHz					
	• RBW = 120 kHz					
	• VBW = 300 kHz					
	Detector = 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 ≥ [3 *RBW]					
	• Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.					
	Sweep time = auto					
	Perform a trace average of at least 100 traces.					
	Value = Reading + Factor(Antenna Factor + Cable loss).					
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	: 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)
0	Dadiated Emissies	± 4.80dB (30M -1GHz)
8	Radiated Emission	± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

#### Remark

The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispr/ETSI</sub> (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								
Equipment	Manufacturer	Manufacturer Model No. Inventory No.		Cal Date	Cal Due Date			
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			
Cianal Analyzan	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/05/28	2022/05/27			
Signal Analyzer			30771-01-02-02	2022/05/17	2023/05/16			
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14			
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03			
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03			

CE Test System								
Equipment	Manufacturer	Manufacturer Model No. Inventory No.		Cal Date	Cal Due Date			
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07			
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 V4.0.0.2	SUWI-02-09-05	NCR	NCR			
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			



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RSE Test Equipment								
Equipment	Manufacturer Model No.		Inventory No.	Cal Date	Cal Due Date			
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15			
Signal Analyzer*	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/05/28	2022/05/27			
olgilai 7 thaiy201	TOTIBE GOTTON INCE	1 0 1 10	30W1010201	2022/05/28	2023/05/27			
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03			
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-01-11-01	2021/05/16	2023/05/15			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15			
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13			
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13			
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13			
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18			
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09			
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR			
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	NCR	NCR			

\*Note: This equipment was not used for testing on 2022/05/27.



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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]	Limit[MHz]	Verdict
		5180	24.80	5168.20	5193.00		
		5220	24.00	5208.64	5232.64		
		5240	23.76	5228.68	5252.44		
		5260	23.88	5248.64	5272.52		
		5300	23.20	5288.68	5311.88		
11A	Ant0	5320	28.48	5305.56	5334.04		
IIA	Anto	5500	23.24	5488.52	5511.76		
		5580	23.64	5568.04	5591.68		
		5700	22.88	5688.96	5711.84		
		5745	23.00	5733.64	5756.64		
		5785	22.36	5773.68	5796.04		
		5825	23.24	5813.68	5836.92		
		5180	23.76	5168.40	5192.16		
		5220	24.64	5208.08	5232.72		
		5240	23.88	5228.24	5252.12		
		5260	24.32	5248.16	5272.48		
		5300	24.72	5288.12	5312.84		
11N20SISO	Ant0	5320	23.84	5308.32	5332.16		
1111203130	Anto	5500	24.08	5488.04	5512.12		
		5580	23.72	5568.28	5592.00		
		5700	23.72	5688.28	5712.00		
		5745	23.56	5733.40	5756.96		
		5785	23.80	5773.08	5796.88		
		5825	23.84	5812.96	5836.80		
		5190	41.12	5169.92	5211.04		
		5230	41.20	5209.52	5250.72		
		5270	40.96	5249.60	5290.56		
		5310	41.36	5289.44	5330.80		
11N40SISO	Ant0	5510	41.44	5489.36	5530.80		
		5550	40.96	5529.52	5570.48		
		5670	40.88	5649.60	5690.48		
		5755	41.44	5734.36	5775.80		
		5795	41.20	5774.44	5815.64		
		5180	24.76	5168.24	5193.00		
		5220	24.84	5208.08	5232.92		
		5240	24.24	5228.12	5252.36		
		5260	24.04	5248.32	5272.36		
		5300	24.00	5288.12	5312.12		
11AC20SISO	Ant0	5320	23.76	5308.32	5332.08		
11/10/200100	Anto	5500	23.88	5488.04	5511.92		
		5580	23.80	5568.12	5591.92		
		5700	23.72	5688.16	5711.88		
		5745	24.40	5733.24	5757.64		
		5785	23.84	5773.16	5797.00		
		5825	23.96	5813.04	5837.00		
		5190	40.88	5169.92	5210.80		
		5230	41.20	5209.44	5250.64		
		5270	41.68	5249.28	5290.96		
11AC40SISO	Ant0	5310	41.44	5289.20	5330.64		
		5510	41.04	5489.44	5530.48		
		5550	40.80	5529.52	5570.32		
		5670	41.12	5649.52	5690.64		



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		5755	41.44	5734.12	5775.56	 
		5795	41.20	5774.36	5815.56	 
11AC80SISO		5210	90.72	5166.96	5257.68	 
	Ant0	5290	88.32	5247.44	5335.76	 
		5530	81.92	5488.88	5570.80	 
		5610	82.88	5567.92	5650.80	 
		5775	86.08	5729.88	5815.96	 



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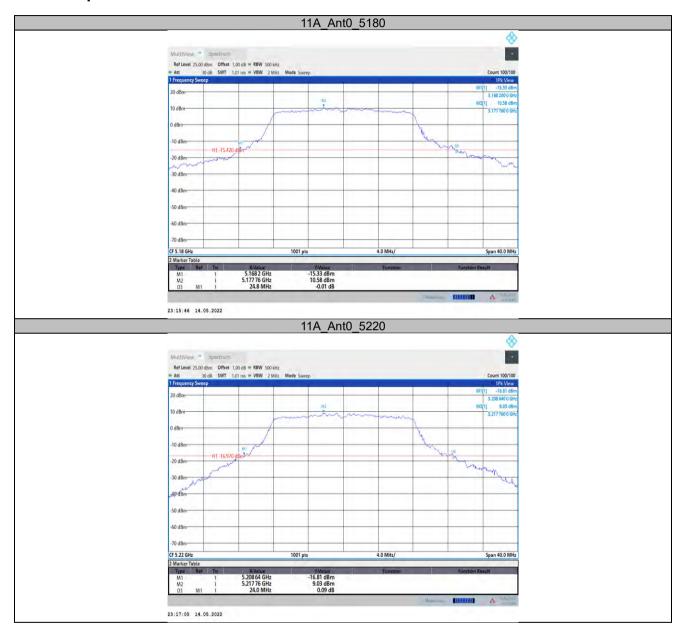


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#### **Test Graphs**





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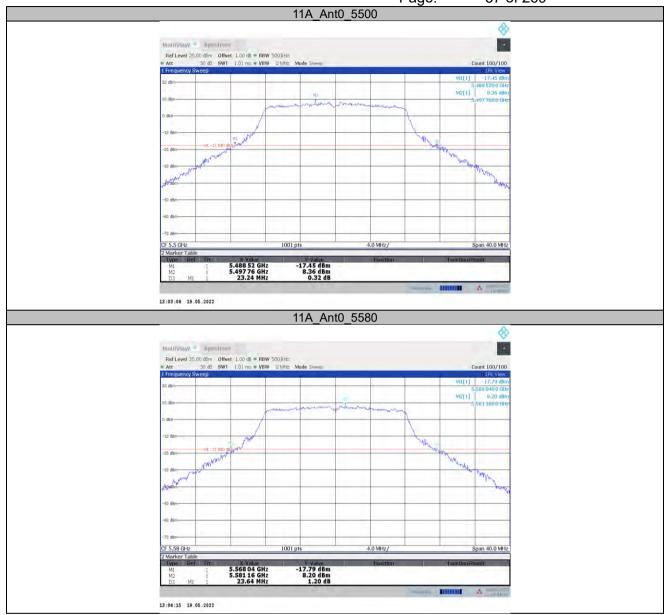
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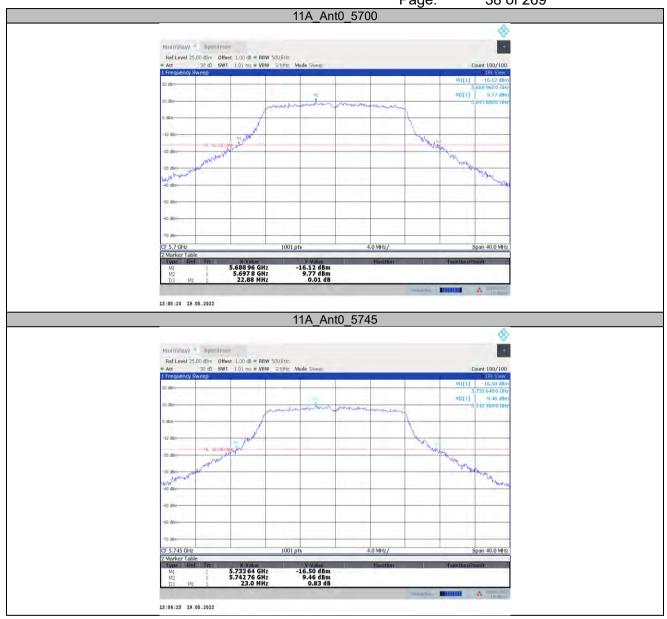
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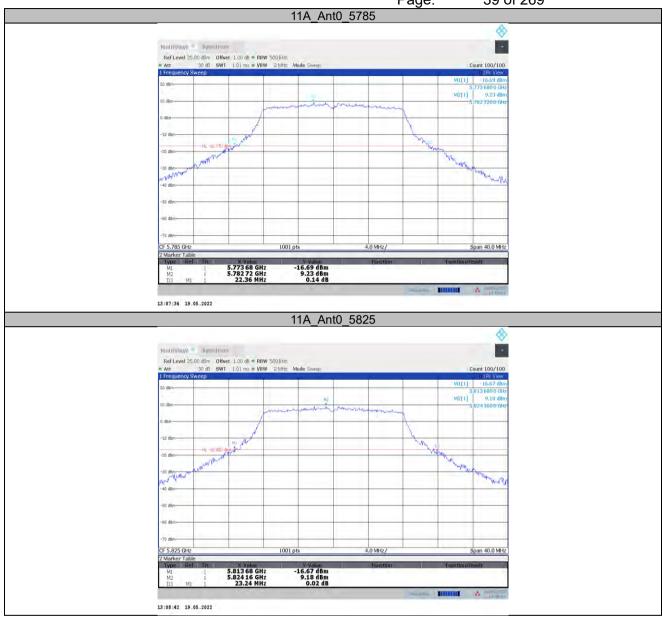
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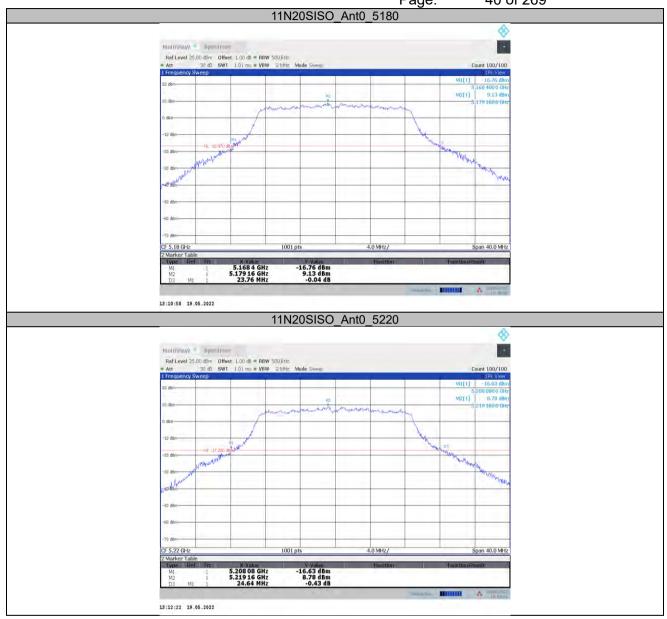
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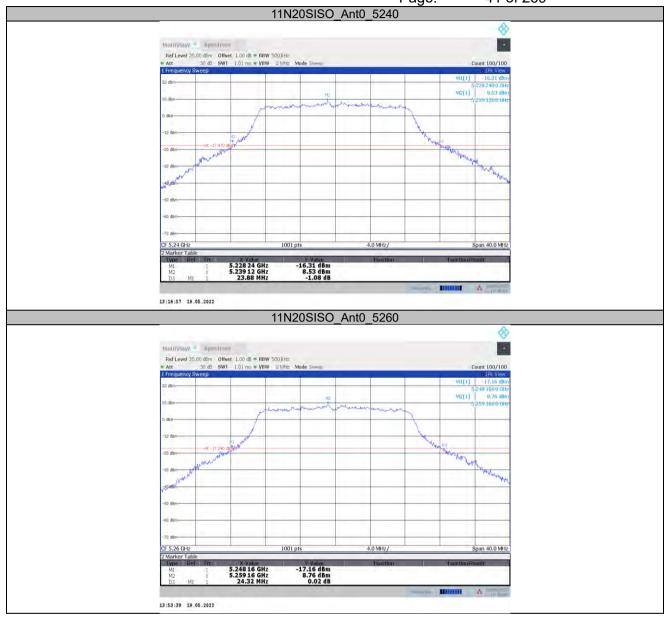
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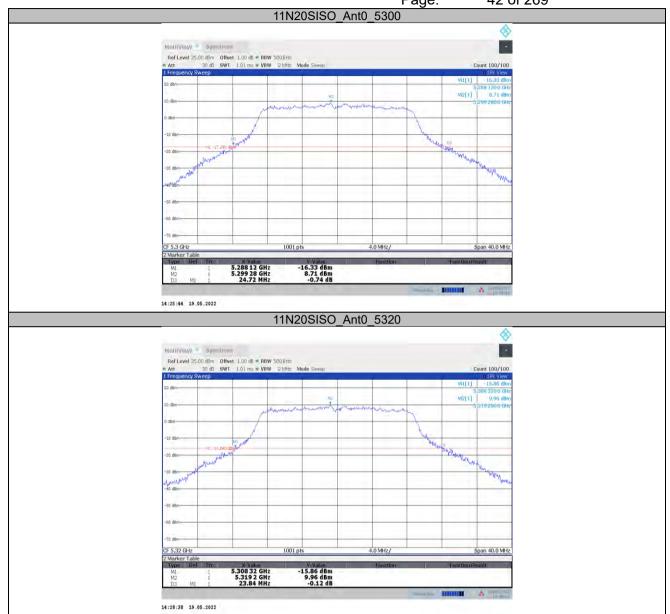
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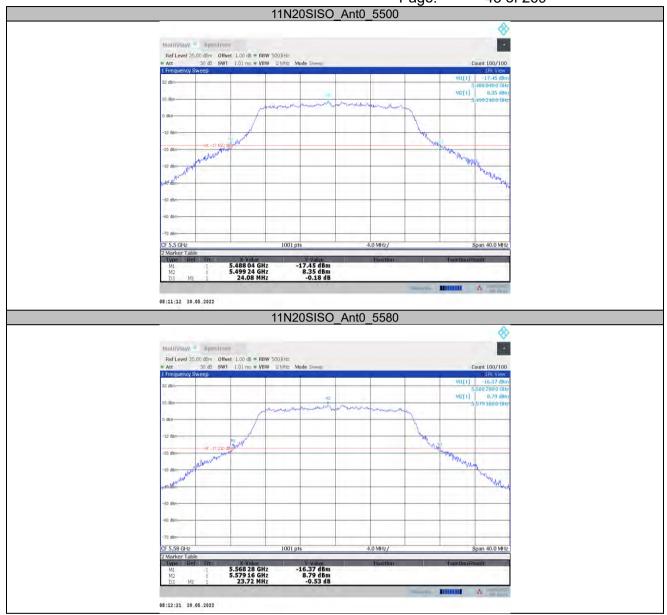
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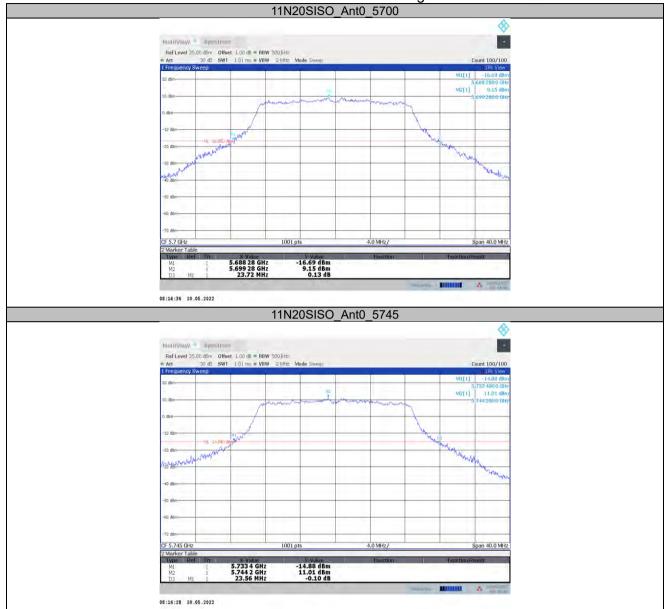
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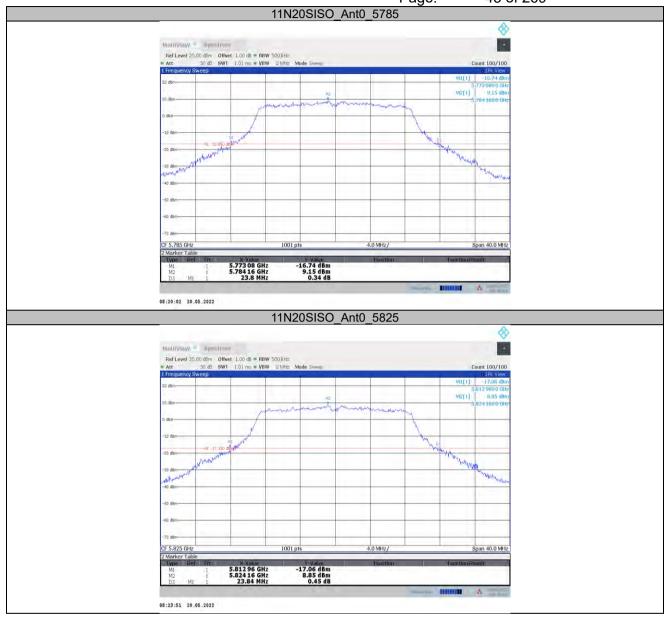
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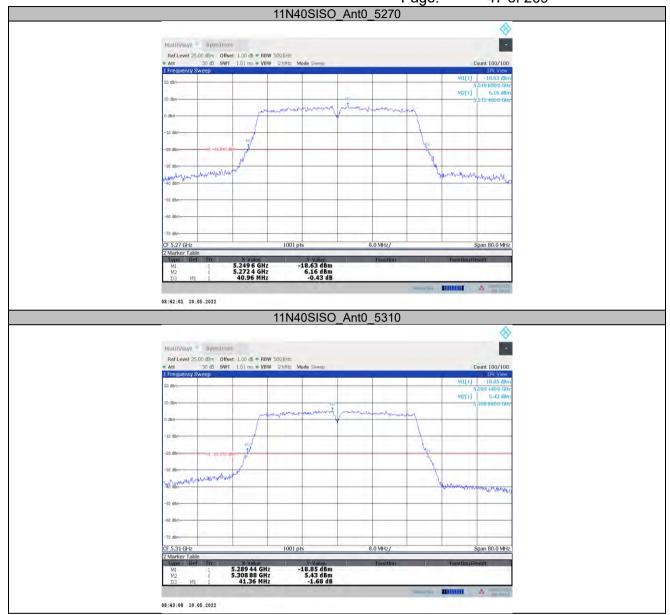
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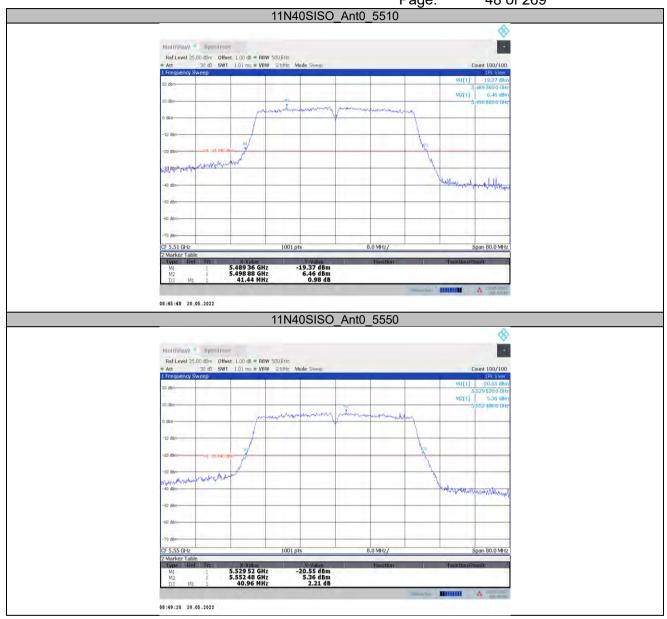
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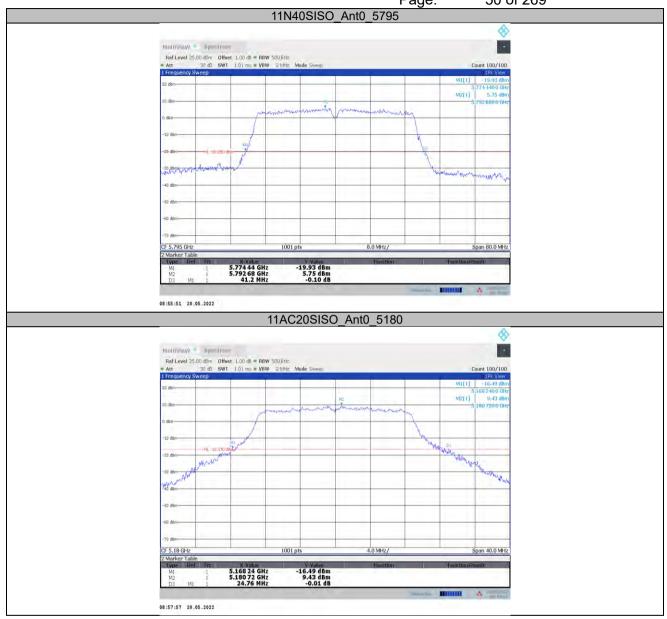
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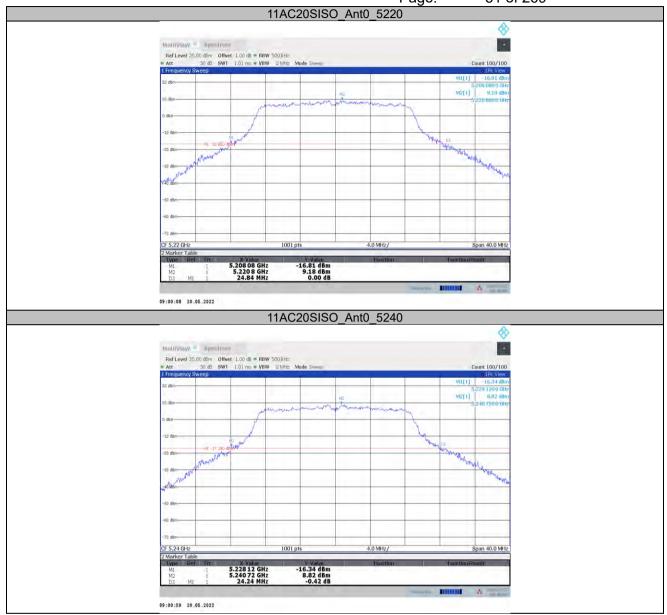
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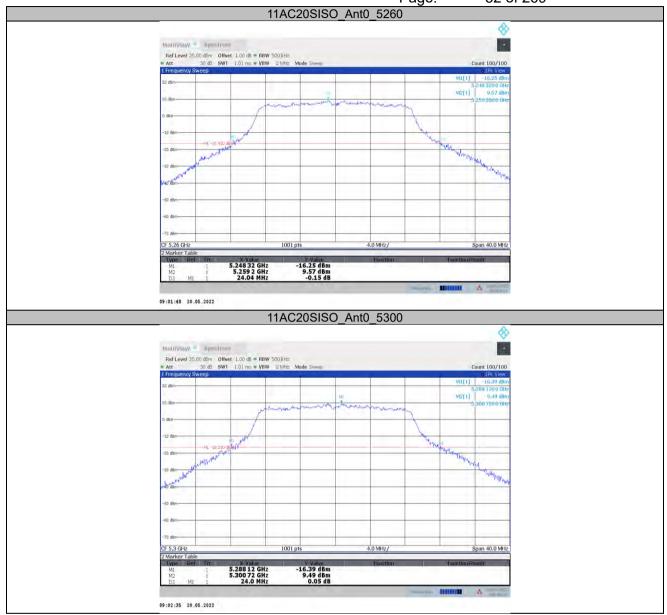
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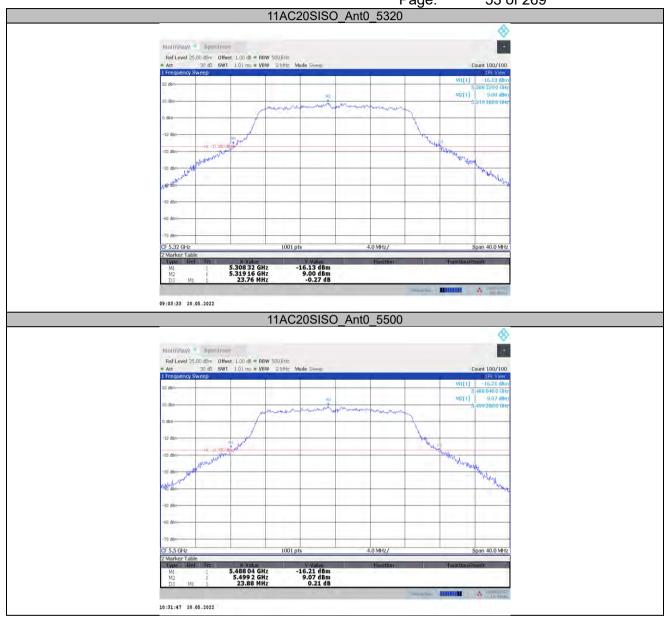
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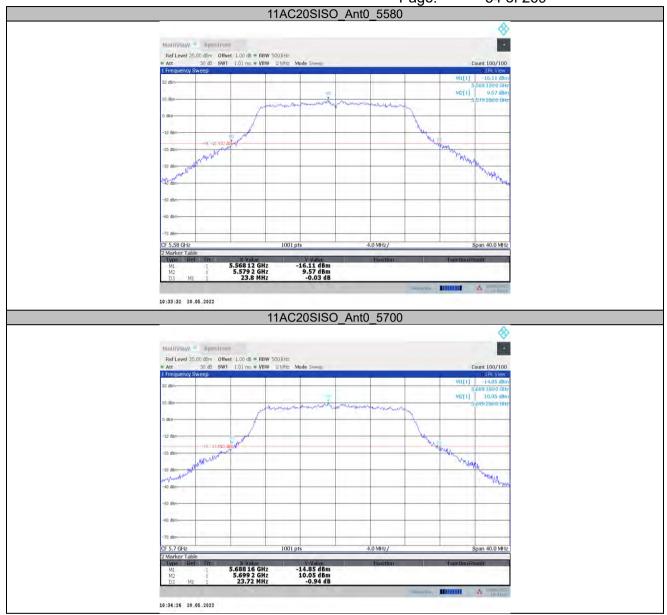
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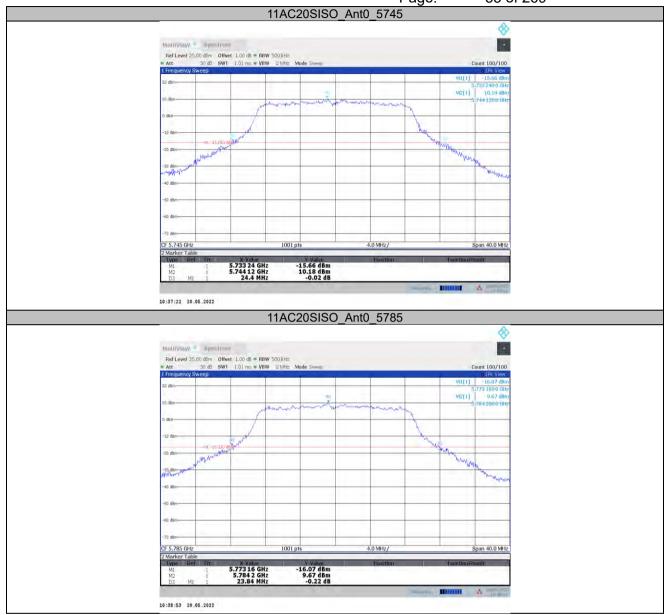
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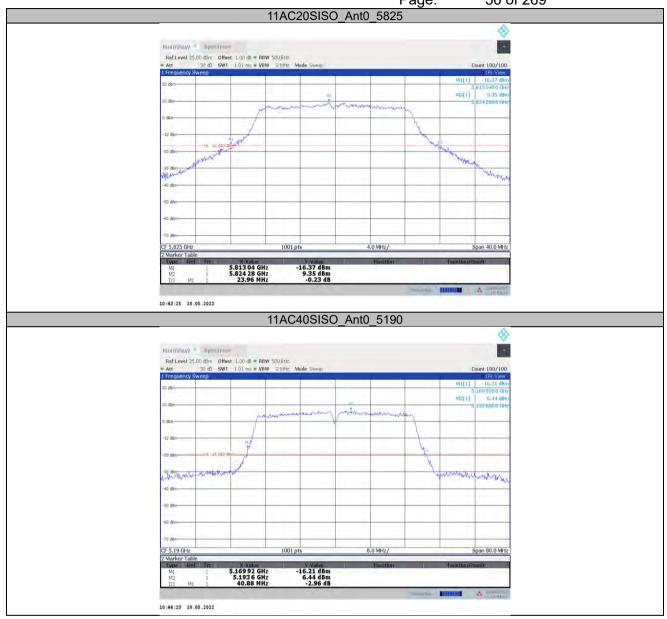
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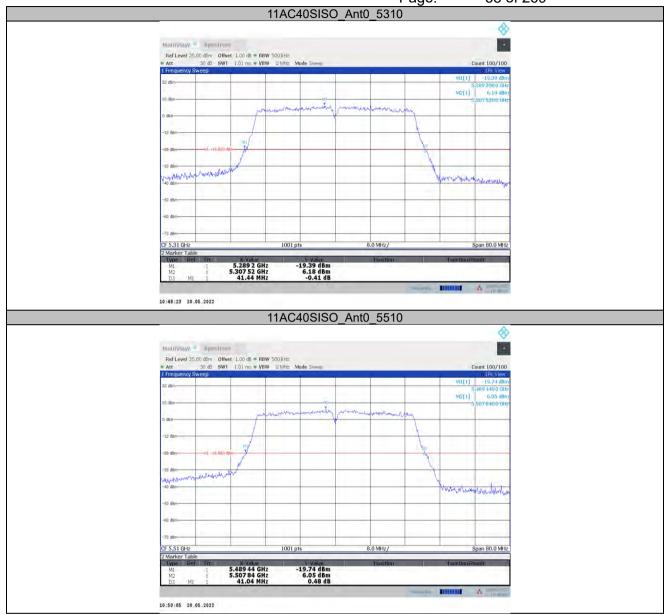
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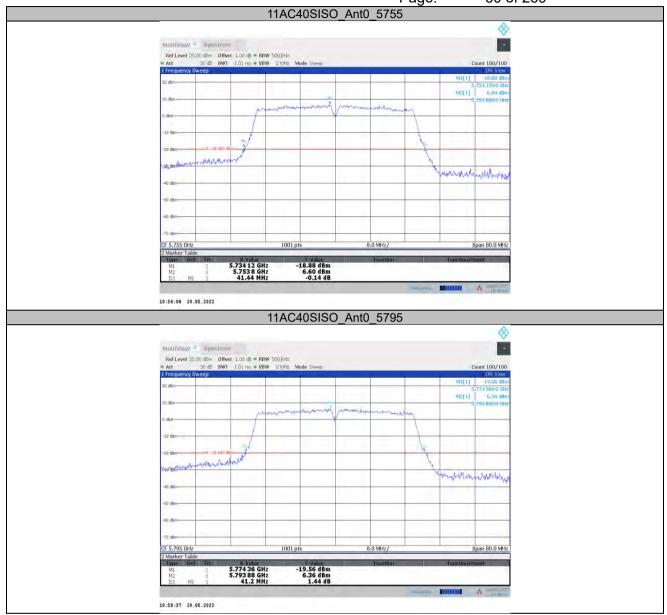
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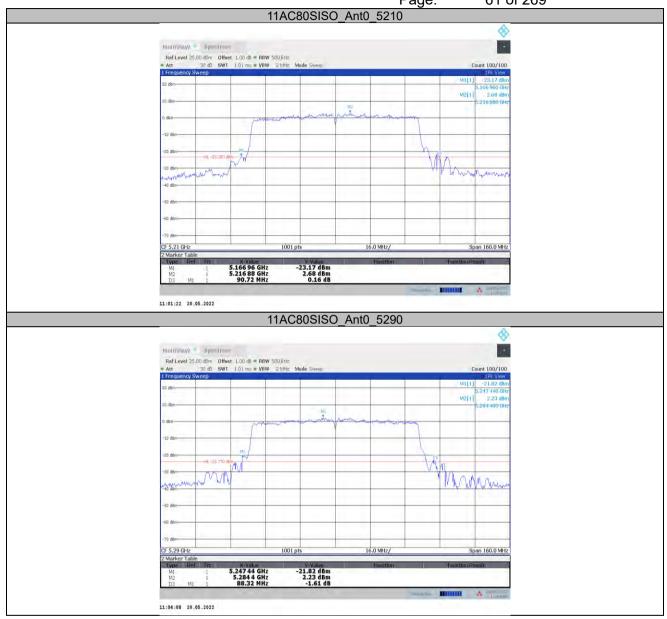
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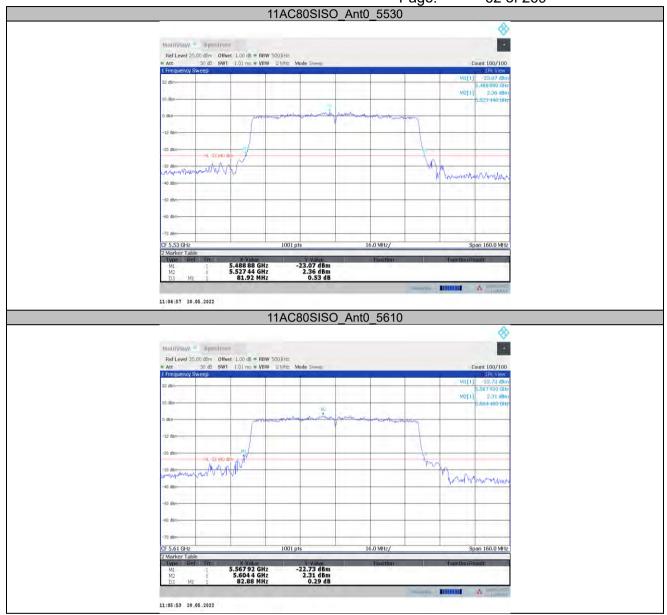
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# Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A		5180	17.19	5171.424	5188.613		
		5220	17.694	5211.156	5228.850		
		5240	17.034	5231.483	5248.516		
	Ant0	5260	17.053	5251.474	5268.527		
		5300	17.036	5291.463	5308.499		
		5320	17.456	5311.258	5328.714		
		5500	16.956	5491.447	5508.404		
		5580	16.978	5571.449	5588.428		
		5700	16.921	5691.472	5708.393		
		5745	16.98	5736.444	5753.424		
		5785	16.92	5776.477	5793.397		
		5825	16.944	5816.468	5833.412		
		5180	18.115	5170.952	5189.067		
		5220	18.164	5210.923	5229.087		
		5240	18.192	5230.906	5249.099		
		5260	18.154	5250.923	5269.077		
		5300	18.126	5290.935	5309.061		
1111000100	A m+O	5320	18.12	5310.930	5329.050		
11N20SISO	Ant0	5500	18.108	5490.900	5509.008		
		5580	18.132	5570.897	5589.029		
		5700	18.112	5690.895	5709.007		
		5745	18.088	5735.908	5753.996		
		5785	18.138	5775.902	5794.040		
		5825	18.122	5815.894	5834.017		
	Ant0	5190	36.612	5171.755	5208.366		
		5230	36.509	5211.801	5248.310		
		5270	36.504	5251.782	5288.287		
		5310	36.525	5291.759	5328.284		
11N40SISO		5510	36.546	5491.751	5528.296		
		5550	36.516	5531.753	5568.269		
		5670	36.546	5651.701	5688.247		
		5755	36.583	5736.688	5773.271		
		5795	36.513	5776.738	5813.251		
11AC20SISO	Ant0	5180	18.136	5170.946	5189.081		
		5220	18.164	5210.927	5229.091		
		5240	18.135	5230.927	5249.062		
		5260	18.167	5250.922	5269.089		
		5300	18.142	5290.899	5309.040		
		5320	18.115	5310.921	5329.037		
		5500	18.128	5490.903	5509.031		
		5580	18.142	5570.899	5589.042		
		5700	18.115	5690.903	5709.018		
		5745	18.102	5735.905	5754.007		
		5785	18.114	5775.901	5794.015		
		5825	18.132	5815.885	5834.018		
11AC40SISO	Ant0	5190	36.461	5171.774	5208.235		
		5230	36.394	5211.816	5248.210		
		5270	36.434	5251.787	5288.221		
		5310	36.453	5291.736	5328.189		
		5510	36.441	5491.740	5528.181		
		5550	36.444	5531.758	5568.202		
		5670	36.42	5651.747	5688.167		



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		5755	36.468	5736.696	5773.164	 
		5795	36.483	5776.704	5813.187	 
11AC80SISO	Ant0	5210	75.993	5172.196	5248.190	 
		5290	76.036	5252.004	5328.040	 
		5530	75.981	5491.915	5567.897	 
		5610	75.957	5571.912	5647.869	 
		5775	76.049	5736.800	5812.849	 



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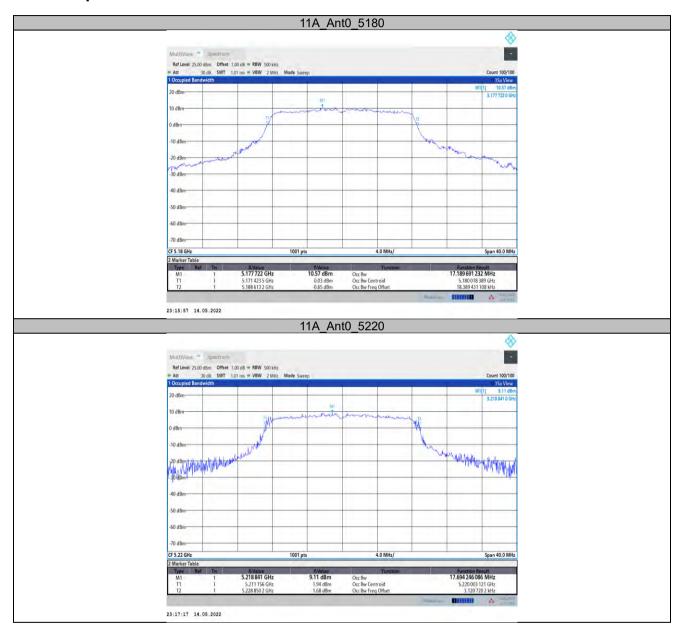


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#### **Test Graphs**





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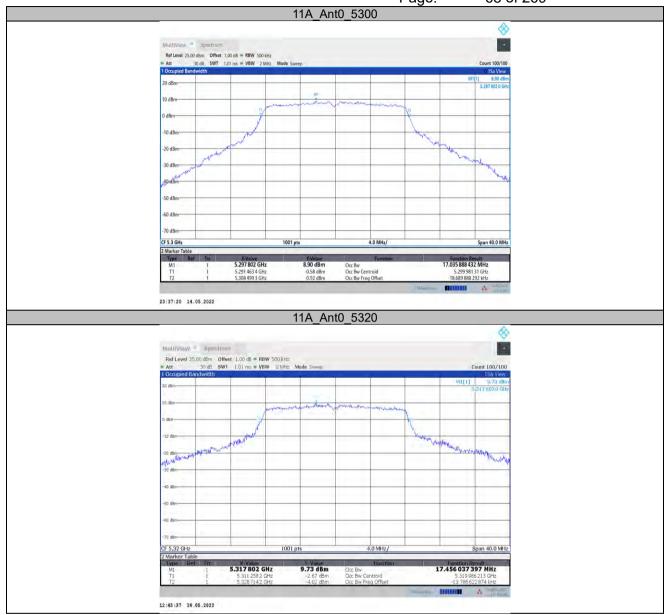
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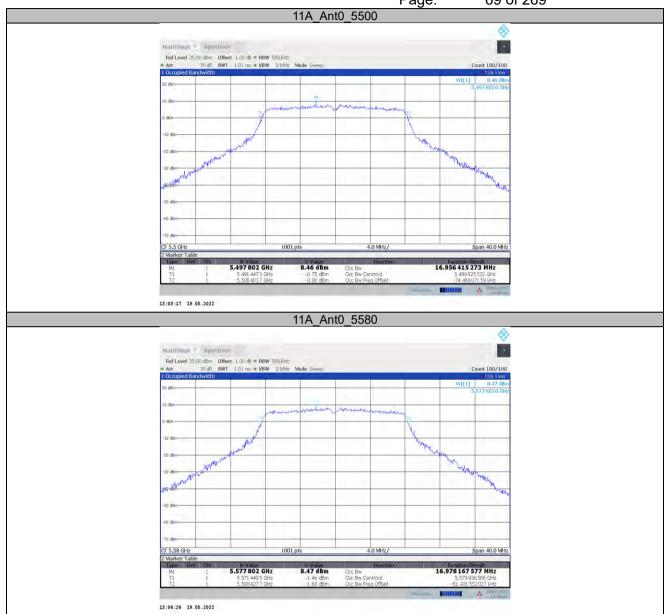
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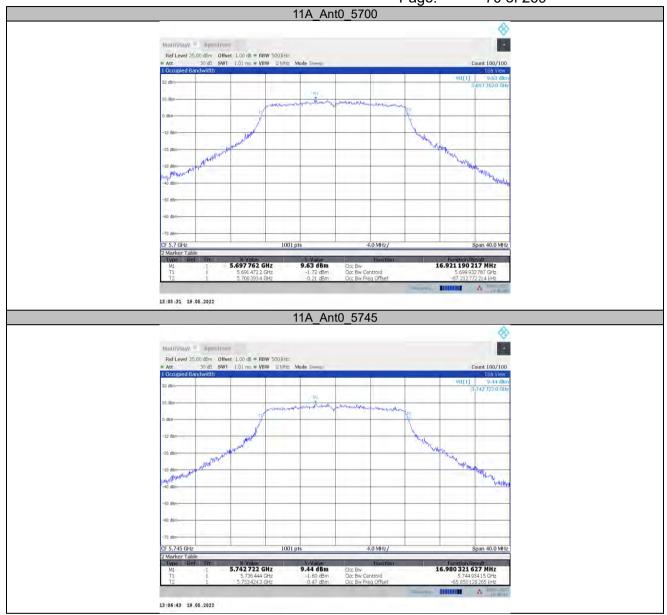
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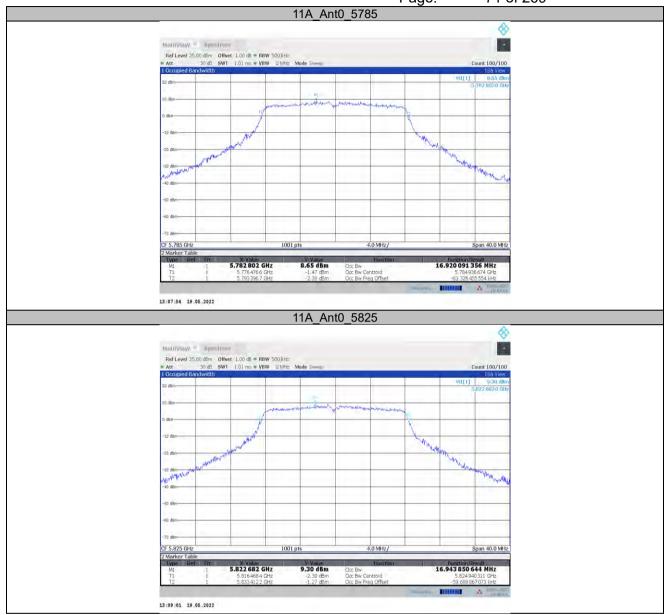
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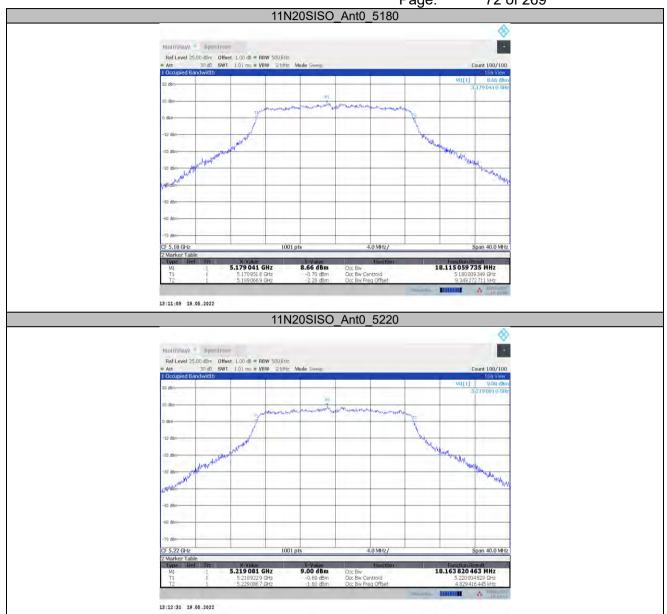
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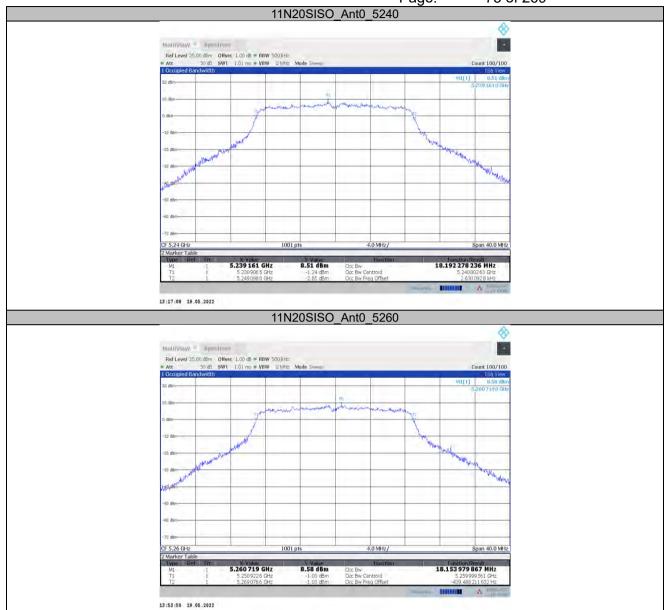
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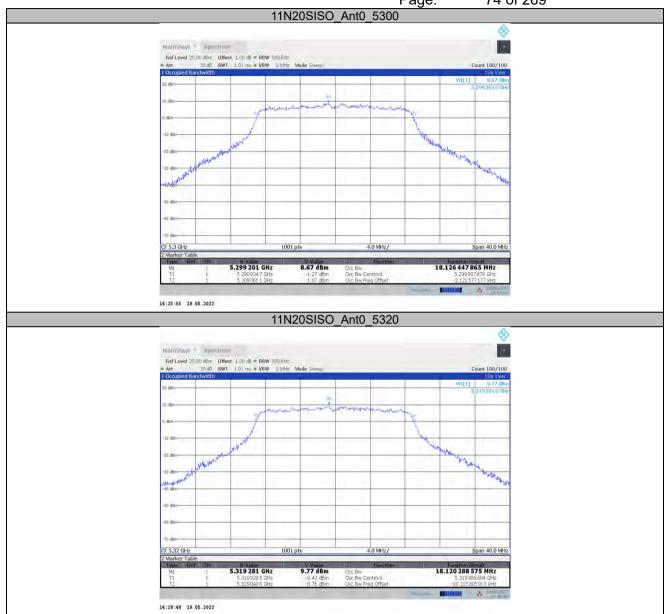
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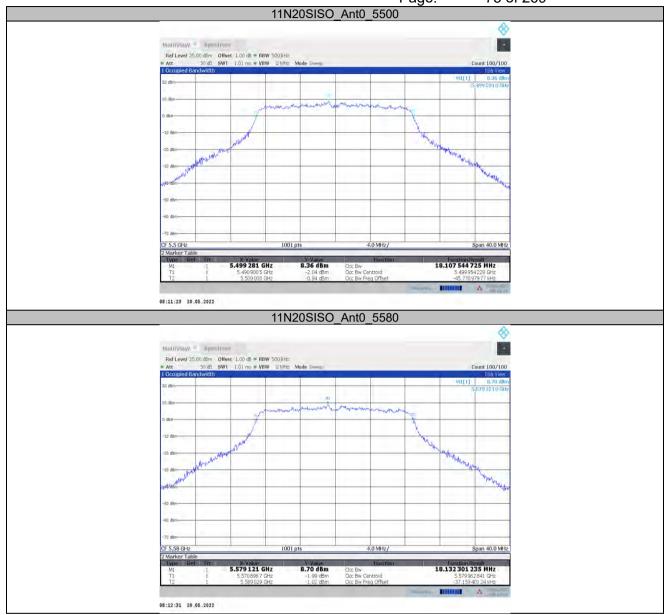
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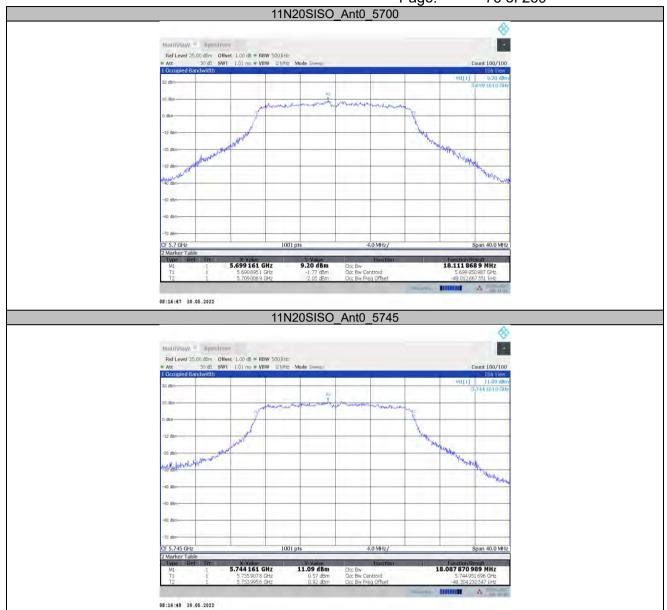
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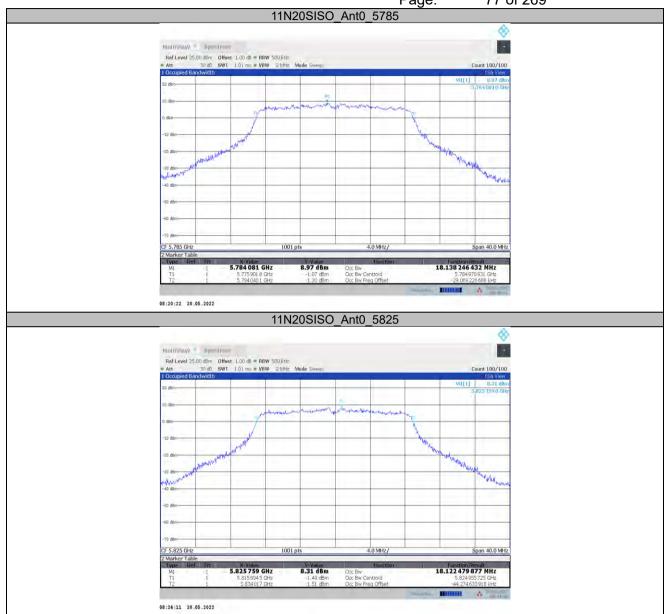
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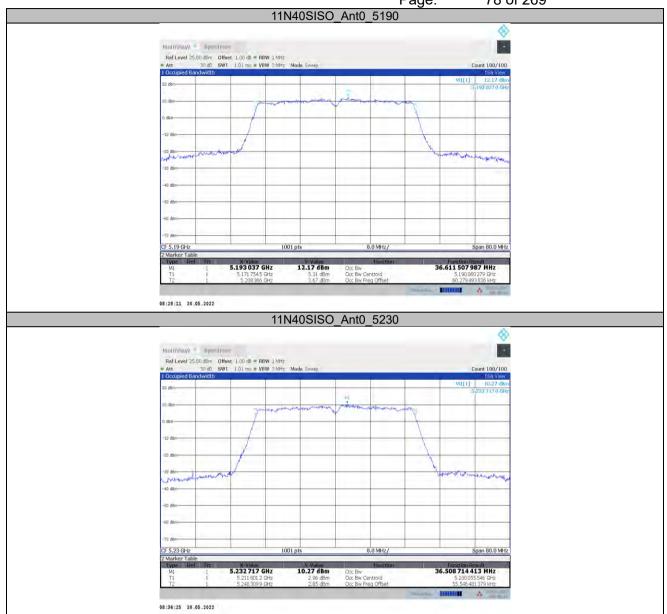
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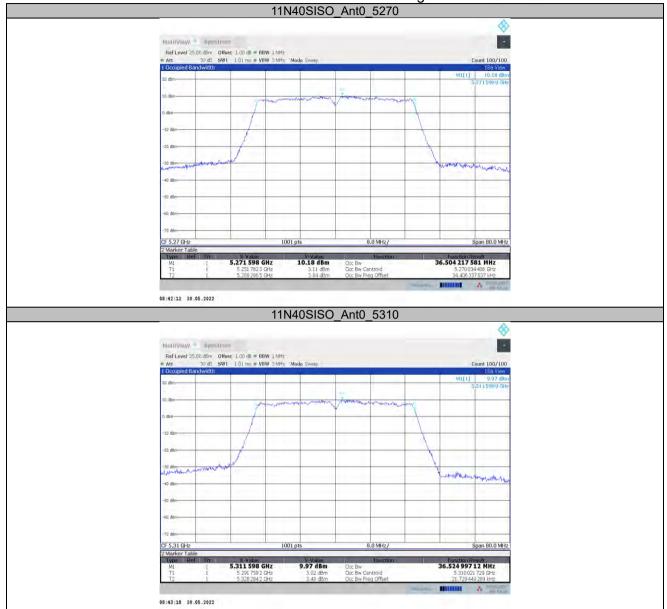
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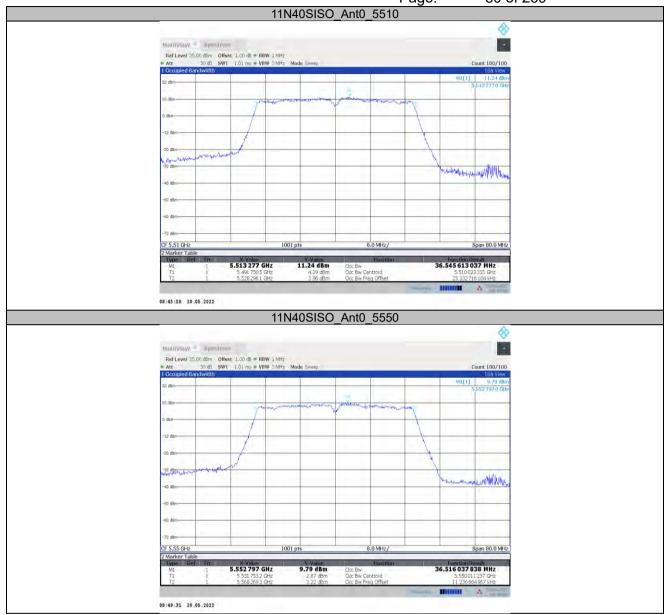
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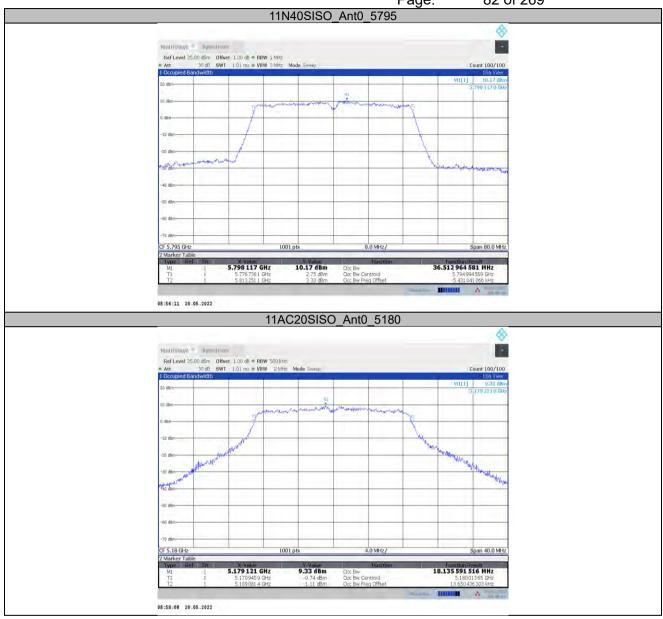
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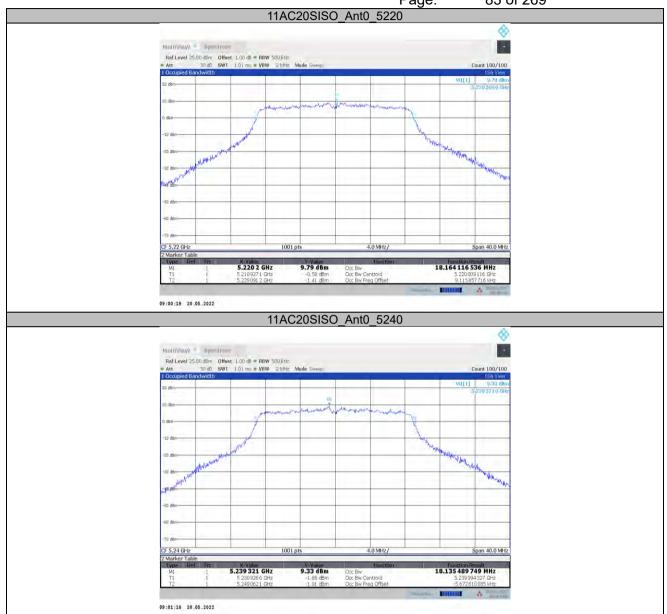
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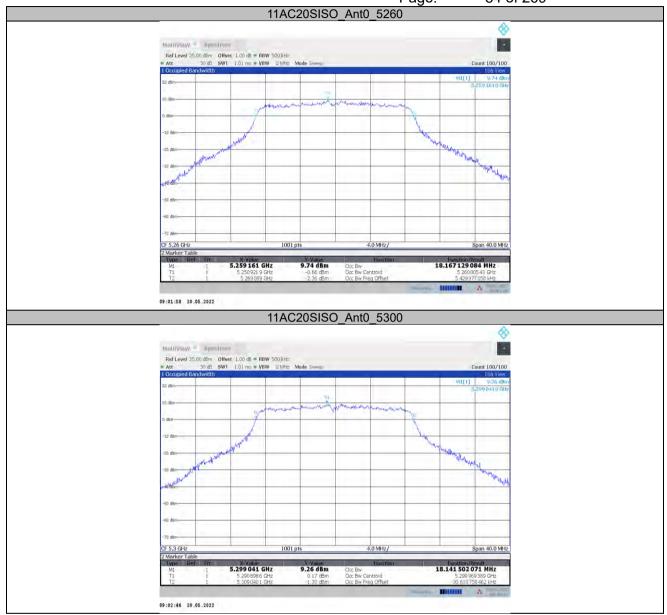
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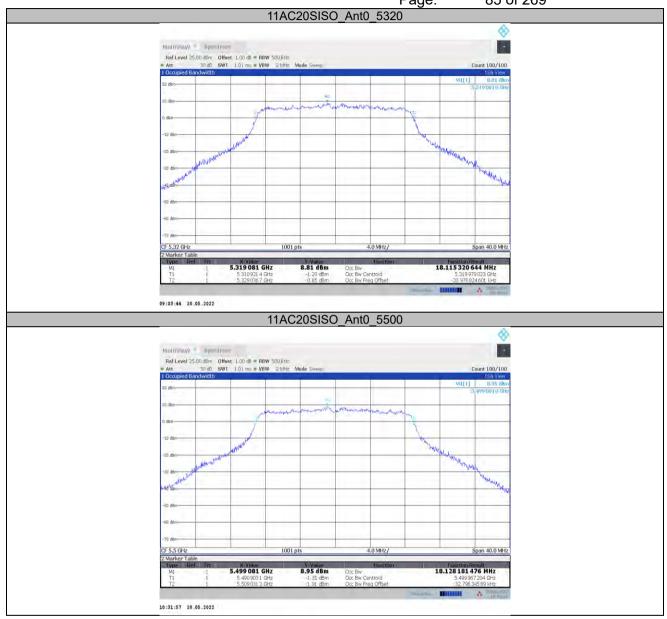
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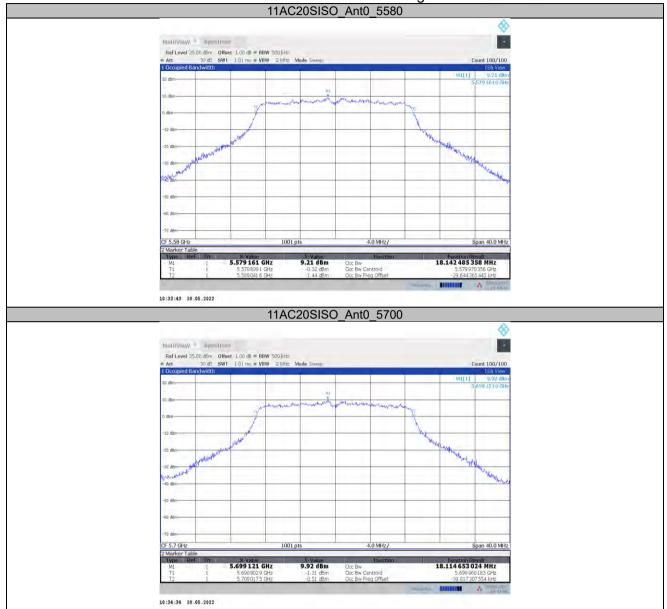
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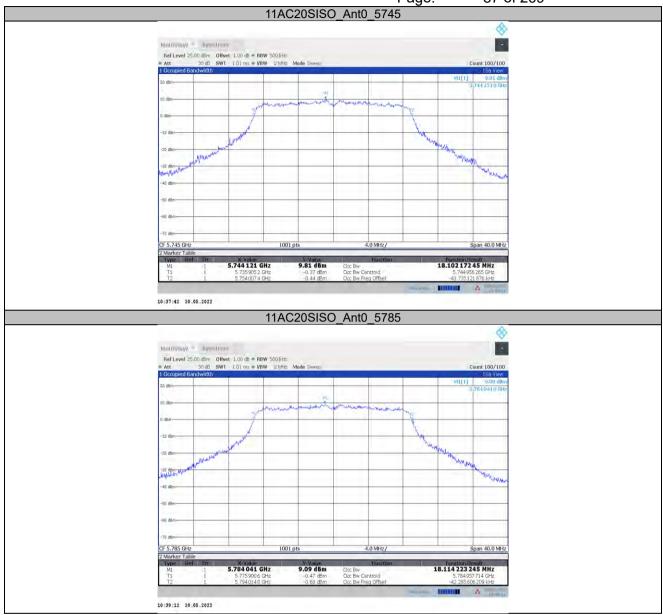
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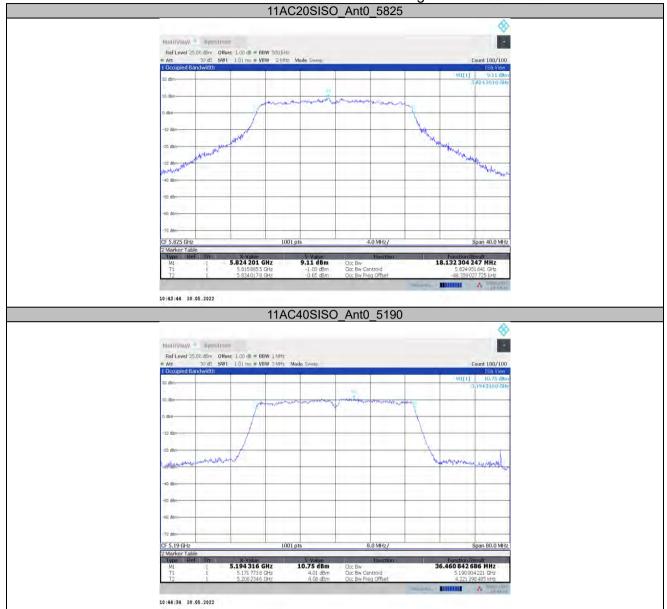
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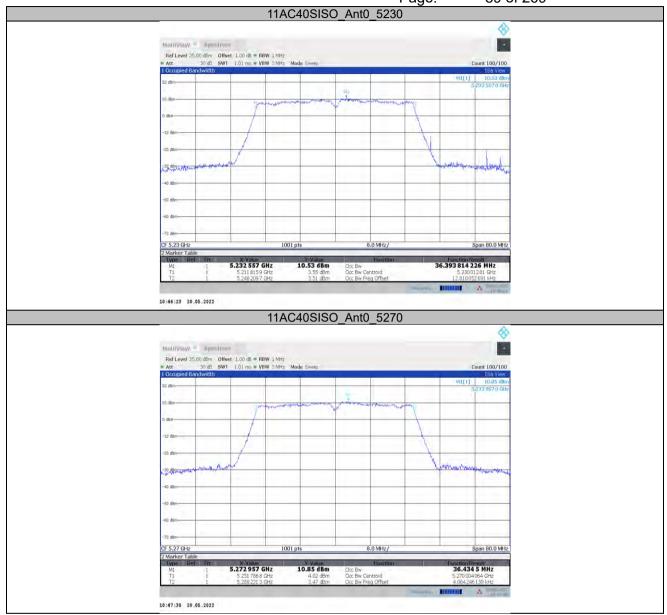
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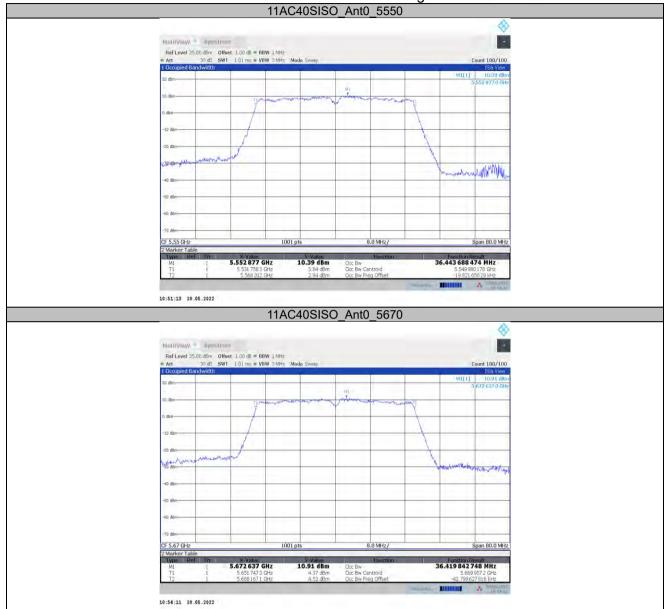
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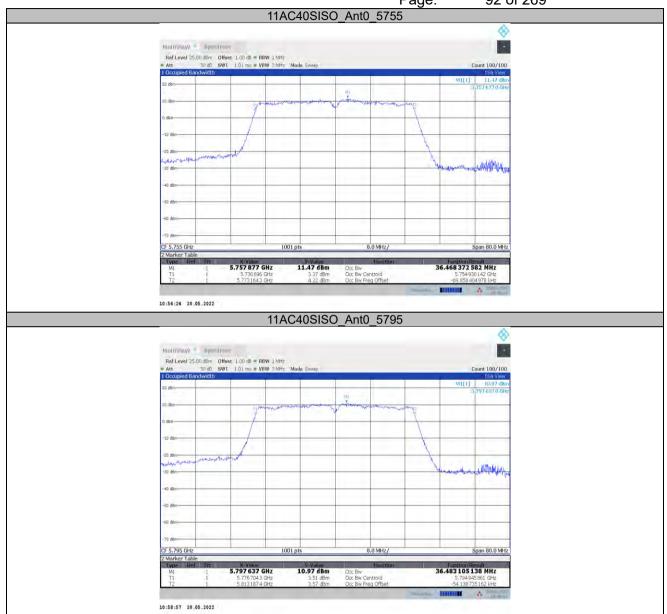
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# 6dB emission bandwidth Test Result B4

TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5745	14.44	5738.08	5752.52	≥0.5	PASS
		5785	15.52	5777.20	5792.72	≥0.5	PASS
		5825	15.76	5817.08	5832.84	≥0.5	PASS
11N20SISO	Ant0	5745	15.96	5736.56	5752.52	≥0.5	PASS
		5785	15.40	5777.08	5792.48	≥0.5	PASS
		5825	15.44	5817.08	5832.52	≥0.5	PASS
11N40SISO	Ant0	5755	35.68	5736.84	5772.52	≥0.5	PASS
1111405150		5795	35.36	5777.16	5812.52	≥0.5	PASS
11AC20SISO		5745	16.20	5736.56	5752.76	≥0.5	PASS
	Ant0	5785	16.00	5776.56	5792.56	≥0.5	PASS
		5825	15.92	5816.56	5832.48	≥0.5	PASS
11AC40SISO	A n+O	5755	35.44	5737.08	5772.52	≥0.5	PASS
	Ant0	5795	35.12	5777.40	5812.52	≥0.5	PASS
11AC80SISO	Ant0	5775	75.20	5737.40	5812.60	≥0.5	PASS



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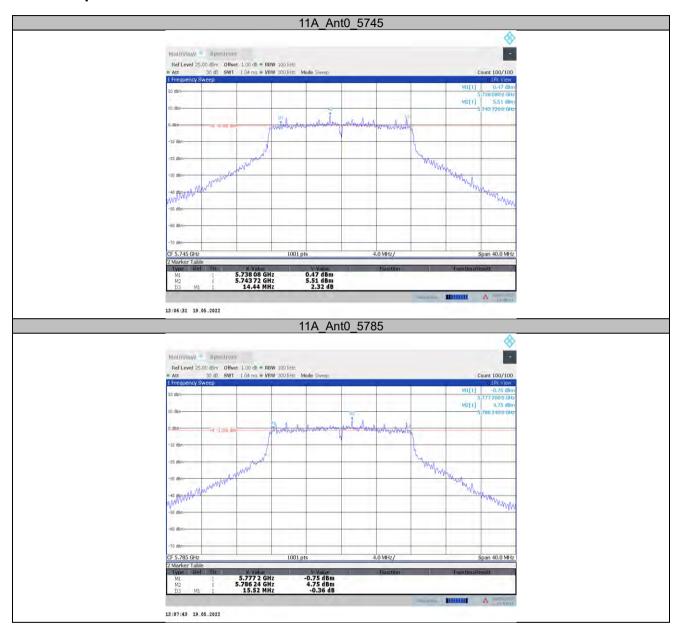


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#### **Test Graphs B4**





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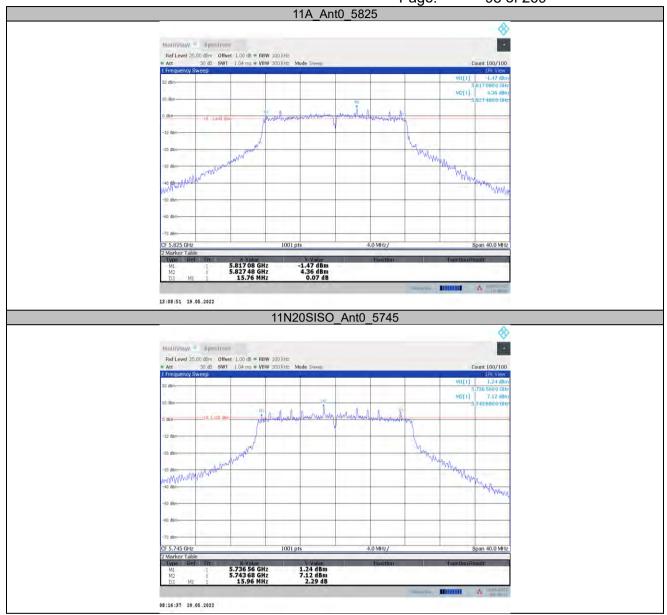
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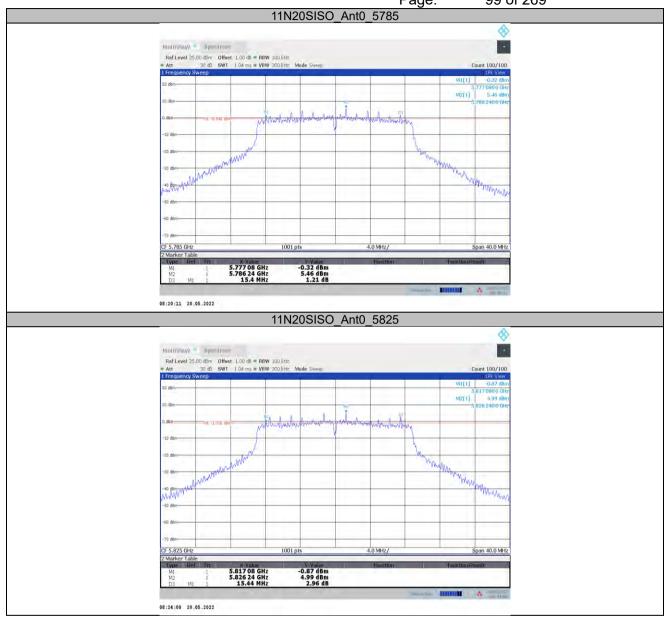
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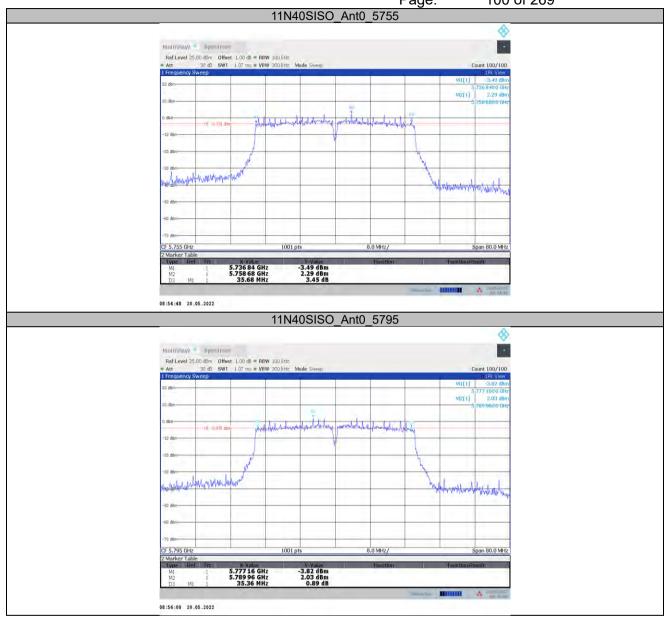
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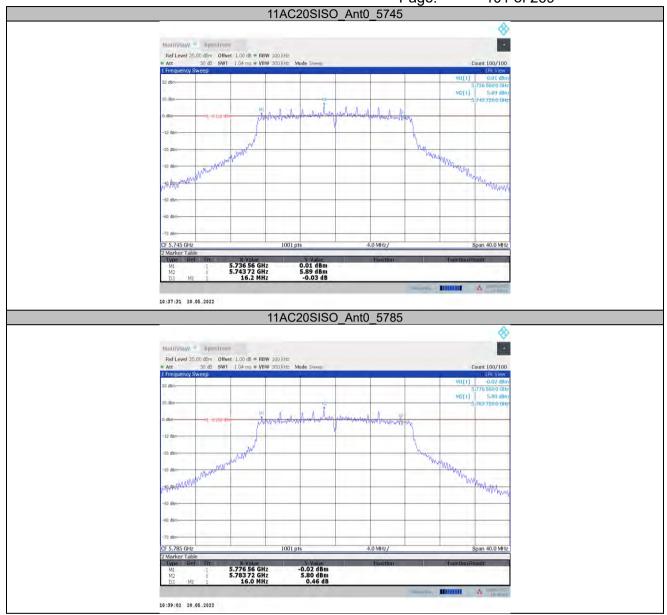
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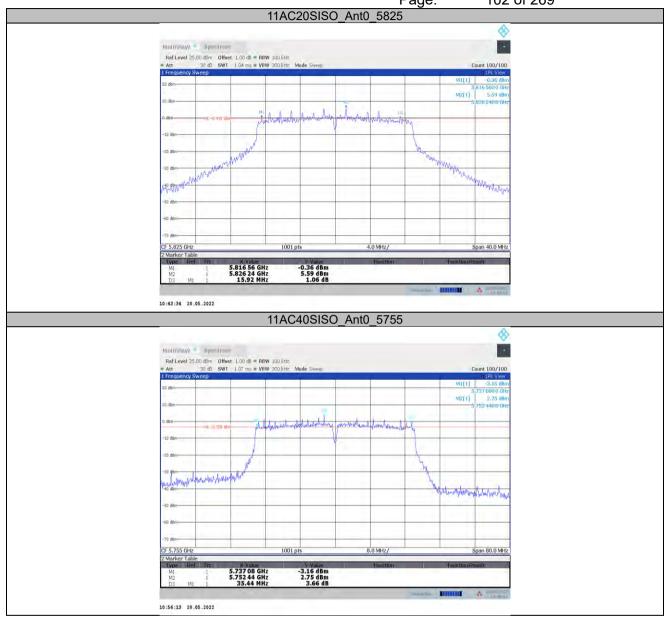
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#### Maximum conducted output power Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Conducted power [dBm]	Limit [dBm]	Verdict
11A		5180	14.42	≤23.98	PASS
		5220	14.61	≤23.98	PASS
		5240	14.39	≤23.98	PASS
	-	5260	14.57	≤23.98	PASS
		5300	14.64	≤23.98	PASS
	A 10	5320	14.62	≤23.98	PASS
	Ant0	5500	14.2	≤23.98	PASS
		5580	14.45	≤23.98	PASS
		5700	15.35	≤23.98	PASS
		5745	15.21	≤30.00	PASS
		5785	14.87	≤30.00	PASS
		5825	14.84	≤30.00	PASS
		5180	14.64	≤23.98	PASS
		5220	14.68	≤23.98	PASS
		5240	14.1	≤23.98	PASS
		5260	14.62	≤23.98	PASS
		5300	14.7	≤23.98	PASS
		5320	13.92	≤23.98	PASS
11N20SISO	Ant0	5500	14.23	≤23.98	PASS
		5580	14.49	≤23.98	PASS
		5700	14.01	≤23.98	PASS
		5745	15.28	≤30.00	PASS
	-	5785	14.9	≤30.00	PASS
		5825	14.33	≤30.00	PASS
		5190	13.23	≤23.98	PASS
		5230	15.18	≤23.98	PASS
		5270	15.16	≤23.98	PASS
					PASS
4481400100	A 10	5310	15.26 15.77	≤23.98	PASS PASS
11N40SISO	Ant0	5510		≤23.98	PASS PASS
		5550 5670	15.04	≤23.98 ≤23.98	PASS PASS
		5670	15.75		
		5755	15.41	≤30.00	PASS
		5795	15.34	≤30.00	PASS
	Ant0	5180	15.17	≤23.98	PASS
		5220	15.26	≤23.98	PASS
		5240	14.63	≤23.98	PASS
		5260	15.1	≤23.98	PASS
		5300	15.22	≤23.98	PASS
11AC20SISO		5320	14.6	≤23.98	PASS
		5500	14.66	≤23.98	PASS
		5580	14.96	≤23.98	PASS
		5700	15.42	≤23.98	PASS
		5745	15.75	≤30.00	PASS
		5785	15.4	≤30.00	PASS
11AC40SISO	Ant0	5825	14.92	≤30.00	PASS
		5190	13.43	≤23.98	PASS
		5230	15.57	≤23.98	PASS
		5270	15.91	≤23.98	PASS
		5310	14.92	≤23.98	PASS
		5510	15.36	≤23.98	PASS
		5550	15.63	≤23.98	PASS
		5670	16.24	≤23.98	PASS



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		5755	16.36	≤30.00	PASS
		5795	16.21	≤30.00	PASS
11AC80SISO		5210	13.68	≤23.98	PASS
		5290	13.88	≤23.98	PASS
	Ant0	5530	13.87	≤23.98	PASS
		5610	14.24	≤23.98	PASS
		5775	15.12	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the graph.



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#### Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
		5180	3.75	≤11.00	PASS
		5220	3.75	≤11.00	PASS
		5240	3.54	≤11.00	PASS
		5260	3.71	≤11.00	PASS
		5300	3.81	≤11.00	PASS
11A	Ant0	5320	3.9	≤11.00	PASS
11/4		5500	3.48	≤11.00	PASS
		5580	3.55	≤11.00	PASS
		5700	4.58	≤11.00	PASS
		5745	1.8	≤30.00	PASS
		5785	1.84	≤30.00	PASS
		5825	1.36	≤30.00	PASS
		5180	3.64	≤11.00	PASS
		5220	3.66	≤11.00	PASS
		5240	3.02	≤11.00	PASS
		5260	3.6	≤11.00	PASS
		5300	3.66	≤11.00	PASS
11N20SISO	A 10	5320	2.85	≤11.00	PASS
1111203130	Ant0	5500	3.16	≤11.00	PASS
		5580	3.4	≤11.00	PASS
		5700	3.81	≤11.00	PASS
		5745	1.39	≤30.00	PASS
		5785	1.09	≤30.00	PASS
		5825	0.51	≤30.00	PASS
		5190	-0.98	≤11.00	PASS
		5230	1.13	≤11.00	PASS
	Ant0	5270	1.47	≤11.00	PASS
		5310	1.15	≤11.00	PASS
11N40SISO		5510	2.37	≤11.00	PASS
		5550	0.95	≤11.00	PASS
		5670	1.69	≤11.00	PASS
		5755	-0.98	≤30.00	PASS
		5795	-1.55	≤30.00	PASS
	Ant0	5180	4.14	≤11.00	PASS
		5220	4.24	≤11.00	PASS
		5240	3.57	≤11.00	PASS
		5260	1.6	≤11.00	PASS
		5300	4.28	≤11.00	PASS
44.4.00002100		5320	3.52	≤11.00	PASS
11AC20SISO		5500	3.63	≤11.00	PASS
		5580	3.86	≤11.00	PASS
		5700	4.36	≤11.00	PASS
		5745	1.89	≤30.00	PASS
		5785	1.61	≤30.00	PASS
		5825	1.06	≤30.00	PASS
	Ant0	5190	-0.75	≤11.00	PASS
		5230	1.87	≤11.00	PASS
		5270	1.79	≤11.00	PASS
11AC40SISO		5310	0.63	≤11.00	PASS
		5510	1.28	≤11.00	PASS
		5550	1.54	≤11.00	PASS
		5670	2.25	≤11.00	PASS



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		5755	-0.62	≤30.00	PASS
		5795	-0.75	≤30.00	PASS
11AC80SISO	Ant0	5210	-3.35	≤11.00	PASS
		5290	-3.69	≤11.00	PASS
		5530	-3.01	≤11.00	PASS
		5610	-2.38	≤11.00	PASS
		5775	-4.83	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz. 2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



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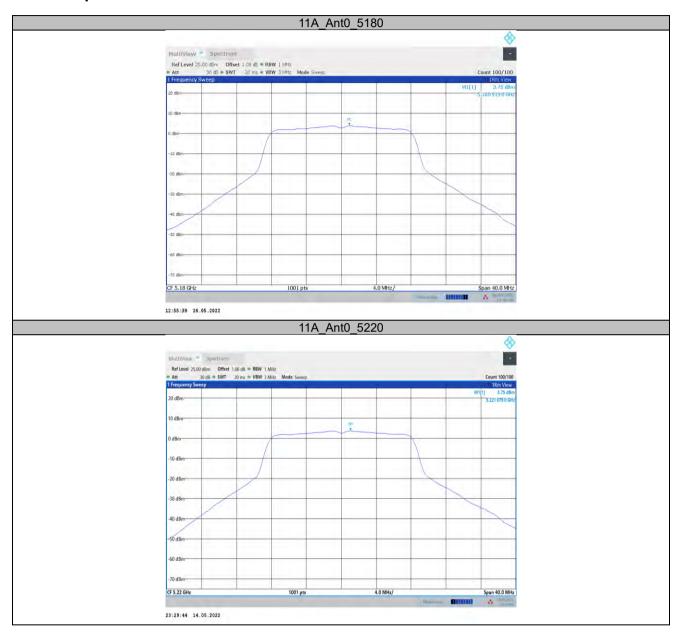


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#### **Test Graphs**





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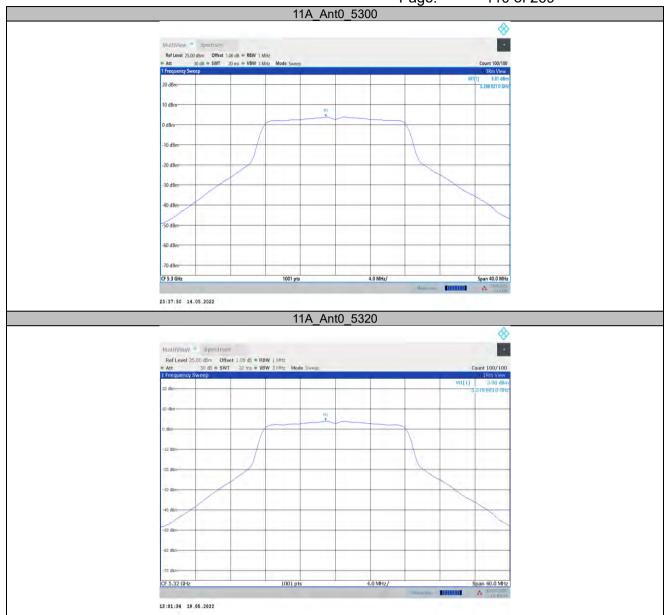
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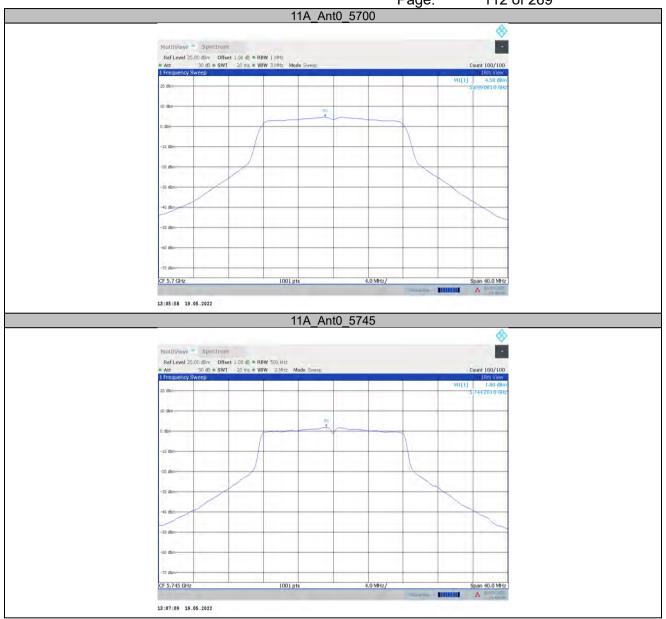
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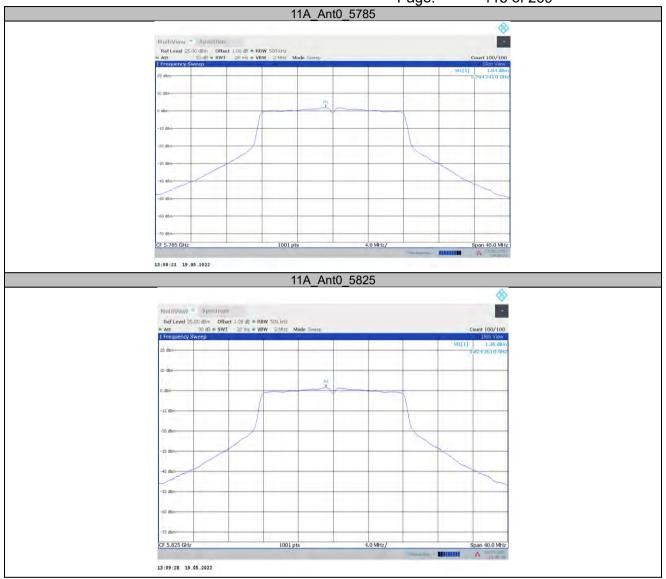
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