

Report No.: SEWA2204000011RG05

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TEST REPORT

Application No.: SEWA2204000011RG

Applicant: Quectel Wireless Solutions Co., Ltd.

Address of Applicant:

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

Minhord District Changhai China 200323

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.: SC690A-NA

Trade Mark: Quectel

FCC ID: XMR2022SC690ANA

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

Date of Receipt: 2022/08/05

Date of Test: 2022/08/15 to 2022/09/14

Date of Issue: 2022/09/15

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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Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2022/09/15		Original	

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



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2 Test Summary

z rest	2 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	Doporting	
Emission	Band II-A	15.407(a)(2)	No limit.	4.5	Reporting only	
Bandwidth	Band II-C	15.407(a)(2)		4.5	Offig	
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)	< 250mW			
Conducted Output	Band II-A Band II-C	15.407(a)(2)	, ,		PASS	
Power	Band III	15.407(a)(3)	< 1W			
Maximum	Band I	15.407(a)	<11dBm/MHz			
Power Spectral	Band II-A Band II-C	15.407(a)(2)	<11dBm/MHz	Clause 4.8	PASS	
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 (Radiated)	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	
	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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South of No. Florat, No. 1, Runsheng Pool. South of No. Florat, No. 1, Runsheng Pool. South of No. Florat No. 1, Runsheng Pool. South of No. Florate Pool. South of No. Florate Pool. South of No. Florate Pool. Pool. Florate Pool. Poo



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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:	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

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:	Multi-mode Smart LTE Module			
Model No.:	SC690A-NA			
Trade Mark:	Quectel			
Hardware Version:	R1.0			
Software Version:	SC690ANA	PAR02A02		
	RF Conducted 867269050014144		9050014144	
IMEI:	RSE & AC	power line	ower line 867269050012684 867269050012692	
	802.11a:	20 MHz chann	el banc	lwidth
WLAN Mode Supported:	802.11n:	20 MHz / 40 M	Hz cha	nnel bandwidth
	802.11ac:	20 MHz / 40 M	Hz / 80	MHz MHz channel bandwidth
Operation Frequency:	5250MHz to 5470MHz to	DMHz to 5250MHz DMHz to 5350MHz DMHz to 5725MHz 5MHz to 5850MHz		
	802.11a:	OFDM (BPSK,	QPSK	, 16QAM, 64QAM)
Modulation Type:	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)		
	20MHz:	802.11a/n(HT20)/ac(VHT20)		
Channel Spacing:	40MHz:	802.11n(HT40)/ac(VHT40)		
	80MHz:	802.11ac(VHT80)		
Antenna Type:	External An	tanna		
Antenna Gain:	5250MHz to 5470MHz to	5250MHz: -0.6 5350MHz: -0.7 5725MHz: 1.2 5850MHz: 1.1	19dBi; 8dBi;	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
	⊠ SISO	802.11a/n/a	0	
		CDD: 802.1	11a/n/ac/ax: Tx & Rx	
Smart System:		STBC: 802.		
		TXBF: 802.11n/ac/ax: Tx & Rx		
	Diversity	802.11a: Tx	& Rx	
DFS Function:	Master			
		vith radar detection		
RF Cable:	1.5dB	dB		



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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)			
	The Lowest channel	5180			
IEEE 802.11a/n/ac 20MHz	The Middle channel	5200			
	The Highest channel	5240			
IEEE 902 445/00 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)		
	The Lowest channel	5260		
IEEE 802.11a/n/ac 20MHz	The Middle channel	5280		
	The Highest channel	5320		
IEEE 802.11n/ac 40MHz	The Lowest channel	5270		
1EEE 802.1111/ac 40101F12	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		
IEEE 802.11ac 80MH2	The Highest channel	5610		

For UNII Band III:					
Mode	Channel	Frequency(MHz)			
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5745			
	The Middle channel	5785			
	The Highest channel	5825			
JEEE 902 115/00 40MHz	The Lowest channel	5755			
IEEE 802.11n/ac 40MHz	The Highest channel	5795			
IEEE 802.11ac 80MHz	The Middle channel	5775			

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
	118*	5590	124	5620
TDWR Channel	120	5600	126*	5630
	122#	5610	128	5640

Note:

- 1. The above Frequency and Channel in "*"were 802.11n HT40 and 802.11ac VHT40.
- 2. The above Frequency and Channel in "#"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(℃) Voltage(V)			
NTNV	22~23 3.8			
Domork:				

Remark:

NV: Normal VoltageNT: Normal Temperature

3.6 Description of Support Units

Description	Manufacturer	Model No.		
Mother board	Quectel	SMART-EVB-G5		
Adaptor	Something High Innovation (B.V.I.) Co., Ltd	P12F050200		
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
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)	/



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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

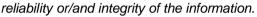
5150MHz to 5250MHz: -0.67dBi; 5250MHz to 5350MHz: -0.19dBi; 5470MHz to 5725MHz: 1.28dBi; 5725MHz to 5850MHz: 1.1dBi;.*

*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,





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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 = 30kHz				
Limit:	Frequency range (MHz)	Limit (d	BuV)		
	Frequency range (MHZ)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the log	arithm of the frequency.			
Test Procedure:	room. 2) The EUT was connected Impedance Stabilizate impedance. The power connected to a second plane in the same was multiple socket outlet single LISN provided. 3) The tabletop EUT was ground reference plane placed on the horizor. 4) The test was perform of the EUT shall be overtical ground reference plane. The unit under test and be mounted on top of the between the closest the EUT and associated. 5) In order to find the mequipment and all of	cted to AC power source throus ion Network) which provides er cables of all other units of and LISN 2, which was bonded by as the LISN 1 for the unit be strip was used to connect must the rating of the LISN was not as placed upon a non-metallic me. And for floor-standing arrantal ground reference plane, and with a vertical ground reference plane was bonded to the LISN 1 was placed 0.8 m frow the points of the LISN 1 and the Extended to a ground reference are ground reference plane. The points of the LISN 1 and the Extended to a ground the extended to the extended to the extended to a ground reference the ground reference plane. The points of the LISN 1 and the Extended to a ground the extended to the extended	ugh a LISN 1 (Line a 50Ω/50μH + 5Ω linear the EUT were to the ground reference eing measured. A ultiple power cables to a ot exceeded. table 0.8m above the angement, the EUT was erence plane. The rear reference plane. The horizontal ground m the boundary of the plane for LISNs is distance was EUT. All other units of 8 m from the LISN 2.		



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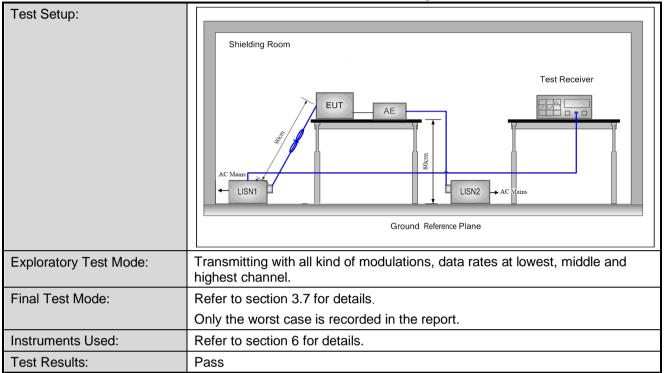
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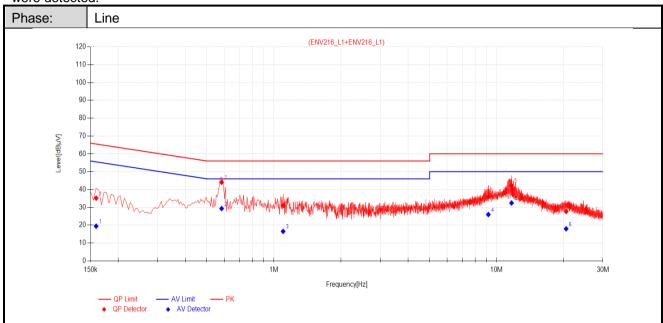
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Measurement Data

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.



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	24.49	35.16	65.52	30.36	8.78	19.45	55.52	36.07	PASS
2	0.5820	10.52	33.53	44.05	56.00	11.95	18.81	29.33	46.00	16.67	PASS
3	1.0995	10.64	20.28	30.92	56.00	25.08	5.90	16.54	46.00	29.46	PASS
4	9.1815	10.66	25.28	35.94	60.00	24.06	15.32	25.98	50.00	24.02	PASS
5	11.6700	10.59	31.63	42.22	60.00	17.78	21.86	32.45	50.00	17.55	PASS
6	20.5215	10.40	17.27	27.67	60.00	32.33	7.59	17.99	50.00	32.01	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[$\overline{dB}\mu V$] Value[$\overline{dB}\mu V$]



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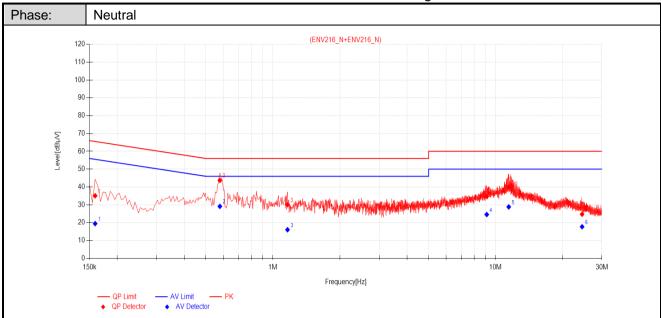
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Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1590	10.72	24.37	35.09	65.52	30.43	8.74	19.46	55.52	36.06	PASS
2	0.5775	10.71	33.02	43.73	56.00	12.27	18.43	29.14	46.00	16.86	PASS
3	1.1625	10.75	19.35	30.10	56.00	25.90	5.28	16.03	46.00	29.97	PASS
4	9.1230	10.62	24.11	34.73	60.00	25.27	13.93	24.55	50.00	25.45	PASS
5	11.4540	10.65	29.35	40.00	60.00	20.00	18.18	28.83	50.00	21.17	PASS
6	24.4545	10.52	14.21	24.73	60.00	35.27	7.19	17.71	50.00	32.29	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)					
Test Method:	ANSI C63.10 :2013	NSI C63.10 :2013 Section11.9.2.3					
Test Setup:	* Test with power n	Ground Reference Plane neter (Detector function: Average)					
Test Instruments:	Refer to section 6 f	,					
Exploratory Test Mode:	Transmitting with a	Il kind of modulations, data rates					
Final Test Mode:	Refer to section 3.7	7 for details.					
Limit:	Frequency Band	Limit					
	5150-5250MHz	Not exceed 250mW(24dBm)					
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB					
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB					
	5725-5850MHz	Not exceed 1W(30dBm)					
	*Where B is the 26	dB emission bandwidth in MHz					
Test Results:	Pass						
The detailed test data see: A	ppendix						



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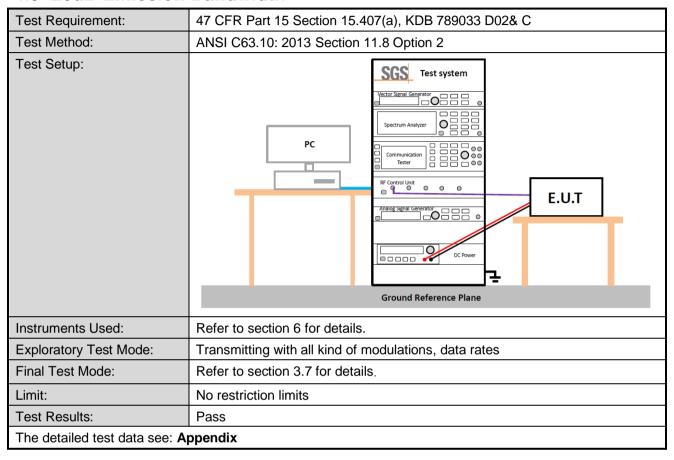


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4.5 26dB Emission Bandwidth





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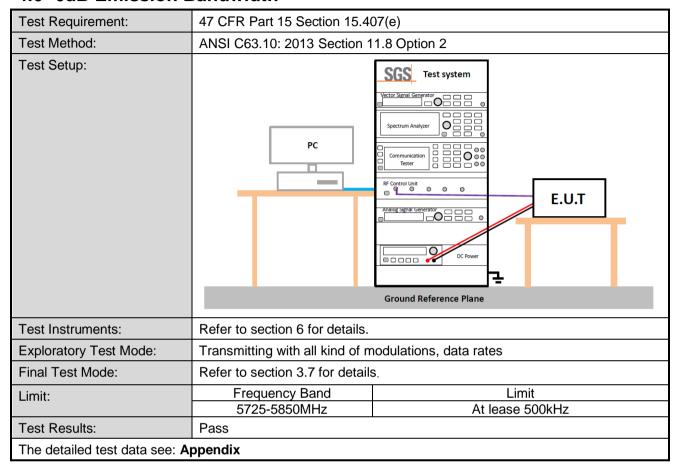


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4.6 6dB Emission Bandwidth





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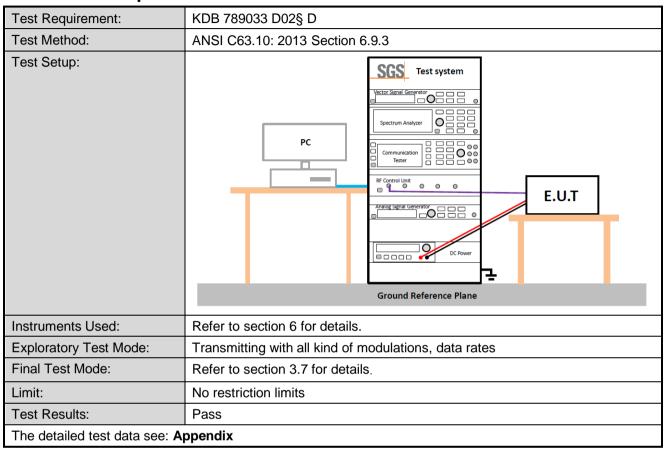


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4.7 99% Occupied Bandwidth





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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Sec	tion 15.407(a)				
Test Method:	ANSI C63.10: 2013	ANSI C63.10: 2013 Section 11.10.2				
	KDB 789033 D02 v0	KDB 789033 D02 v02r01, Section F.				
Test Setup:	PC	SGS Test system Vector Signal Generator Spectrum Analyzer Communication Tester FF Control Unit Communication Tester Tester FF Control Unit Communication Tester Te				
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:	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:

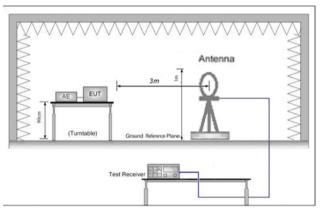
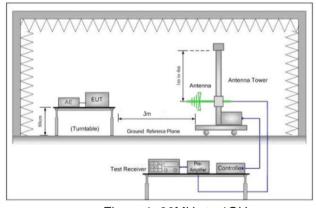


Figure 1. 9kHz to 30MHz



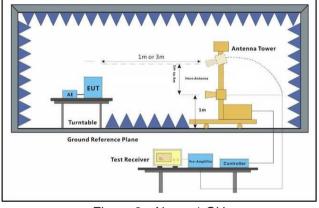


Figure 1. 30MHz to 1GHz

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.
- e. For each suspected emission, the EUT was arranged to its worst case and



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then the entenne was toward to be intented from A material A continue and the	
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 fo Transmitting mode, and found the X axis positioning which it is worse ca	
i. Repeat above procedures until all frequencies measured was complete.	
j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanne the result which was 20dB lower than the limit line was not reported	d and
k. The disturbance above 18GHz was very low, and the harmonics were th highest point could be found when testing, so only the harmonics had be displayed.	
I. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.	
Test Configuration: Measurements Below 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) 	1/2\
Satisfying this condition may require increasing the number of points in the sor reducing the span. If this condition cannot be satisfied, then the detector in shall be set to peak.	weep
Sweep time = auto	
Perform a trace average of at least 100 traces.	
Exploratory Test Mode: Transmitting with all kind of modulations, data rates.	
Final Test Mode: Refer to section 3.7 for details.	
Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details.	



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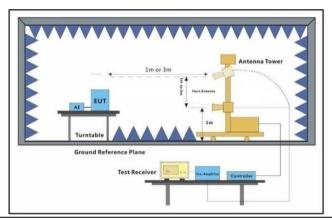
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)						
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 11.12					
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chaml	oer)				
Limit:	Frequency	Remark					
	30MHz-88MHz	40.0	Quasi-peak				
	88MHz-216MHz 43.5 Quasi-pe						
	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:

- 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.
- 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.
- 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
- 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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	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.			
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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4.11 Dynamic Frequency Selection

4.11.1 DFS Overview

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

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

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master Device or Client	Client Without	
	with Radar Detection	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	Mostor Dovigo or Client with	Client Without Dodor	

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

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



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4.11.2 DFS Detection Thresholds

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

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

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

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

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



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4.11.3 RADAR TEST WAVEFORMS

Table 5 - Short Pulse Radar Test Waveforms

Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum		
				Percentage of			
Type	(µsec)	(µsec)	(µsec)		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	Roundup $ \left\{ \frac{\left(\frac{1}{360}\right)}{\left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}}\right)} \right\} $	60%	30		
2	1-5	in Test A 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 (Aggregate (Radar Types 1-4) 80% 120						
N.A. 1. Chart Dalay Daday Tong Oak and the good for the detection benefit that the constitution of the con							

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 Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition 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)	(μεςς)	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

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)
8		± 3.13dB (9k -30MHz)
	Radiated Emission	± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (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						
Equipment	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	
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	
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	
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14	
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13	
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13	
Router	ASUS	GT- AXE11000(FCC ID MSQ- RTAXJF00)	SUWI-03-14-02	NCR	NCR	

CE Test System						
Equipment	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	2022/02/16	2023/02/15	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/16	2023/02/15	
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/16	2023/02/15	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15	



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RSE Test System						
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-04-02-01	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	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	
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-RSE V4.0.0.0	SUWI-02-09-06	NCR	NCR	



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a		5180	22.88	5168.92	5191.80	
		5220	23.12	5208.72	5231.84	
		5240	22.28	5228.80	5251.08	
		5260	23.00	5248.76	5271.76	
		5300	23.04	5288.72	5311.76	
	Ant1	5320	23.04	5308.76	5331.80	
		5500	23.00	5488.76	5511.76	
		5580	23.16	5568.68	5591.84	
		5700	23.64	5688.20	5711.84	
		5745	23.12	5733.64	5756.76	
		5785	22.84	5773.64	5796.48	
		5825	23.04	5813.68	5836.72	
		5180	23.52	5168.28	5191.80	
		5220	24.32	5208.16	5232.48	
		5240	23.44	5228.44	5251.88	
		5260	23.40	5248.44	5271.84	
		5300	23.28	5288.56	5311.84	
11n20SISO	Ant1	5320	23.80	5308.04	5331.84	
1111203130	Anti	5500	24.08	5488.20	5512.28	
		5580	24.00	5568.36	5592.36	
		5700	23.20	5688.60	5711.80	1
		5745	23.80	5733.00	5756.80	
		5785	24.52	5773.04	5797.56	1
		5825	24.64	5812.40	5837.04	
		5190	41.76	5169.20	5210.96	
		5230	42.32	5208.80	5251.12	Reporting only
		5270	41.52	5249.44	5290.96	
		5310	41.60	5289.12	5330.72	
11n40SISO	Ant1	5510	41.44	5489.36	5530.80	
		5550	41.84	5528.88	5570.72	
		5670	41.84	5648.96	5690.80	
		5755	41.68	5734.12	5775.80	
		5795	42.24	5773.80	5816.04	
	Ant1	5180	23.64	5168.12	5191.76	
		5220	23.36	5208.52	5231.88	
		5240	23.44	5228.44	5251.88	
		5260	23.80	5248.24	5272.04	
		5300	23.20	5288.56	5311.76	
11ac20SISO		5320	23.76	5308.00	5331.76	
1180200100	Anti	5500	23.28	5488.56	5511.84	
		5580	23.64	5568.24	5591.88	
		5700	23.48	5688.36	5711.84	
		5745	23.64	5733.16	5756.80	
		5785	23.72	5773.08	5796.80	
		5825	23.48	5813.28	5836.76	
11ac40SISO	Ant1	5190	41.20	5169.52	5210.72	
		5230	41.36	5209.44	5250.80	
		5270	41.52	5249.36	5290.88	
		5310	41.68	5288.96	5330.64	
		5510	41.60	5489.20	5530.80	
		5550	41.60	5529.20	5570.80	_
		5670	41.28	5649.44	5690.72	



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		5755	41.84	5733.96	5775.80
		5795	41.76	5774.20	5815.96
11ac80SISO	Ant1	5210	84.00	5168.08	5252.08
		5290	84.32	5247.92	5332.24
		5530	83.84	5488.24	5572.08
		5610	84.48	5567.76	5652.24
		5775	84.16	5732.92	5817.08



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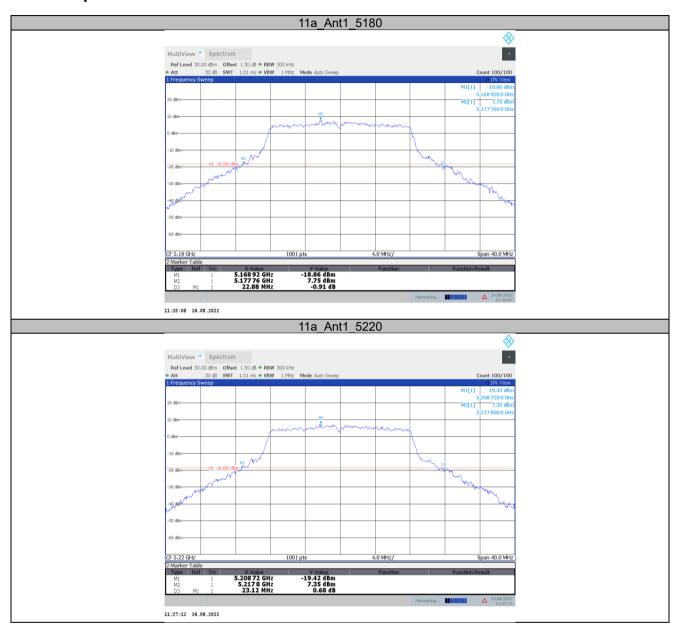


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Test Graphs





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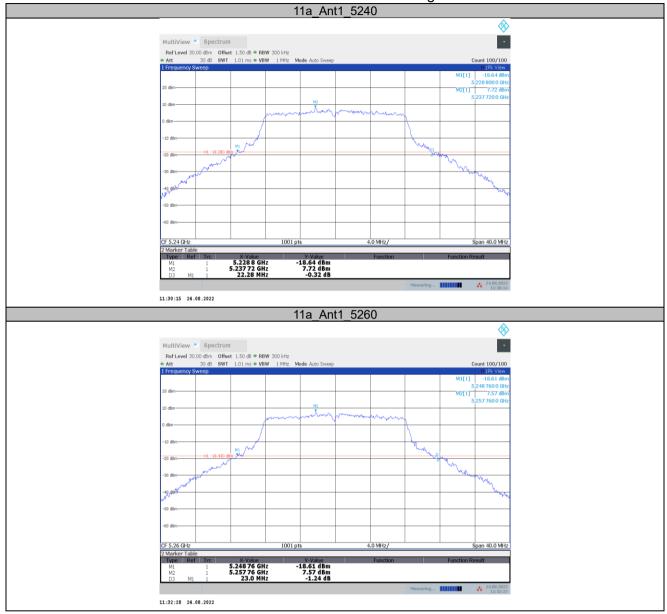
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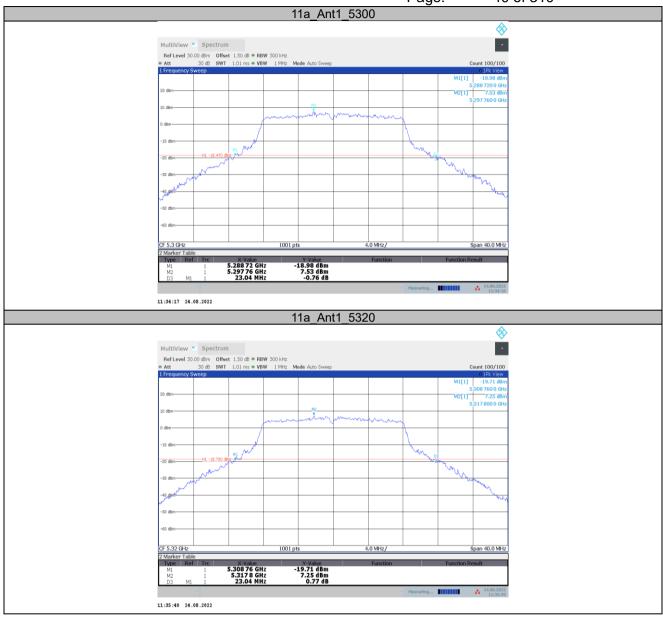
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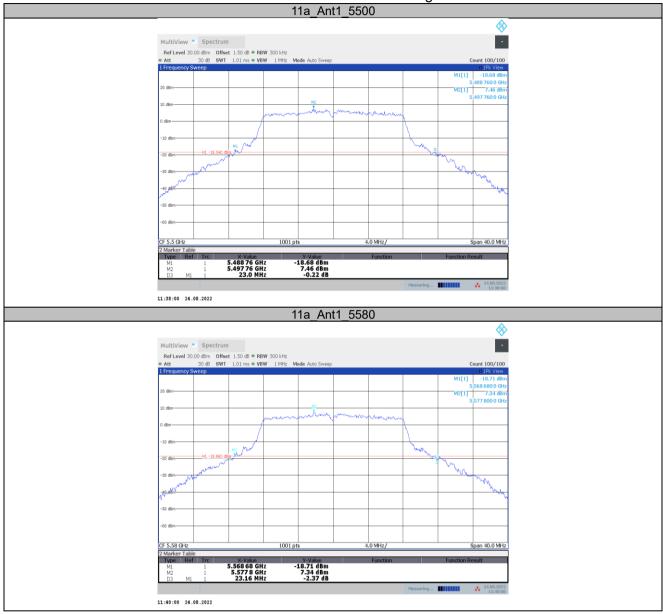
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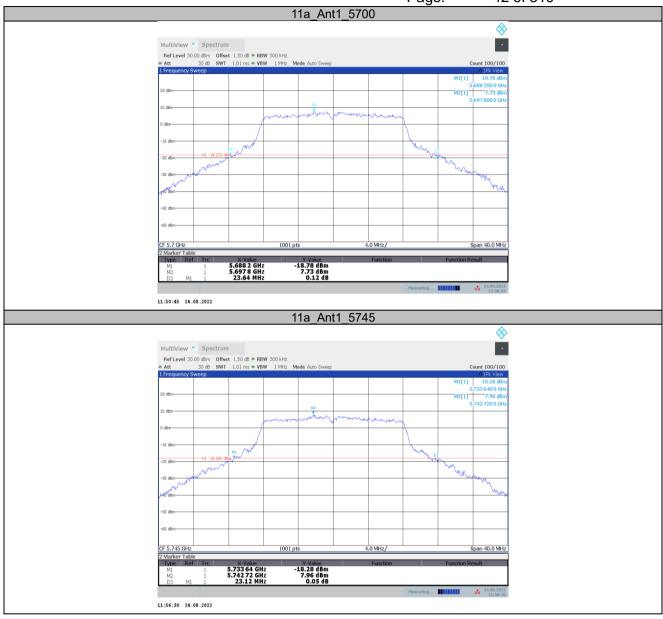
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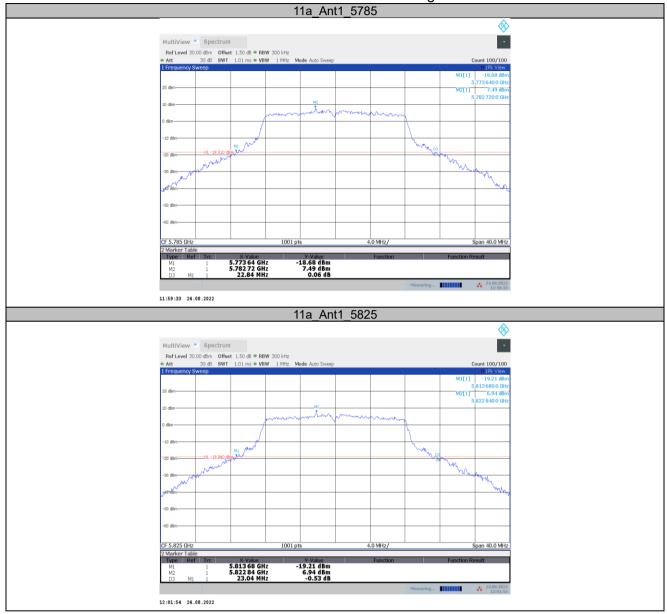
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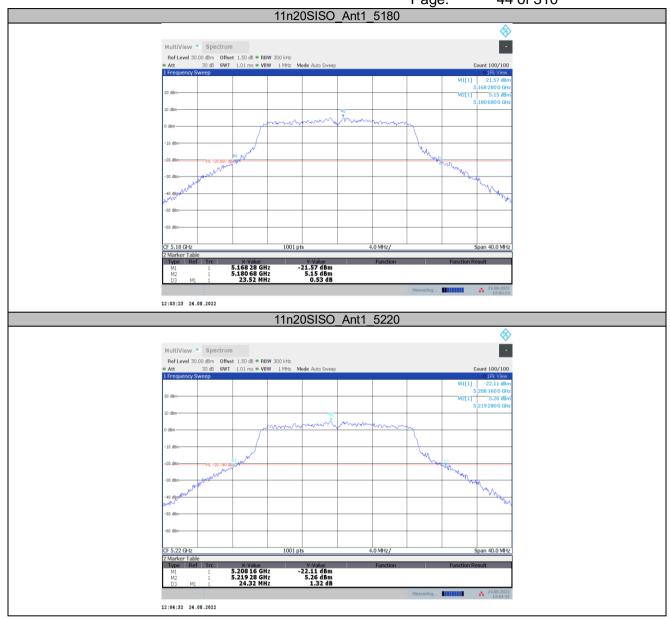
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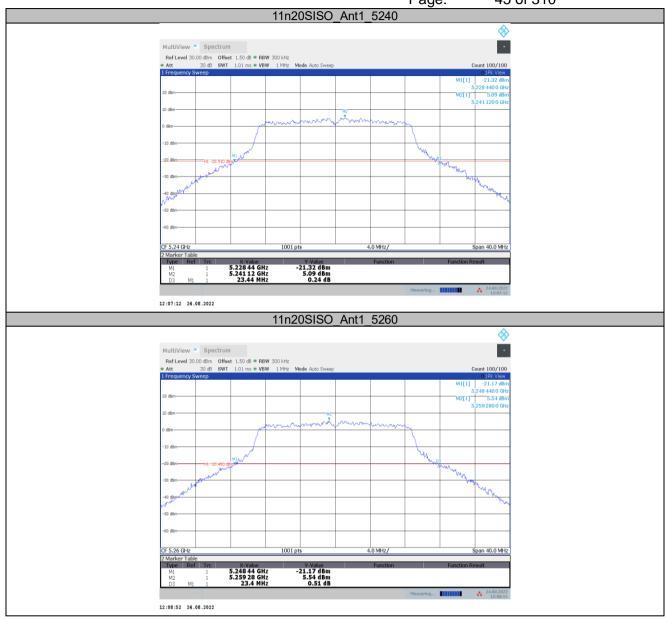
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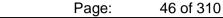
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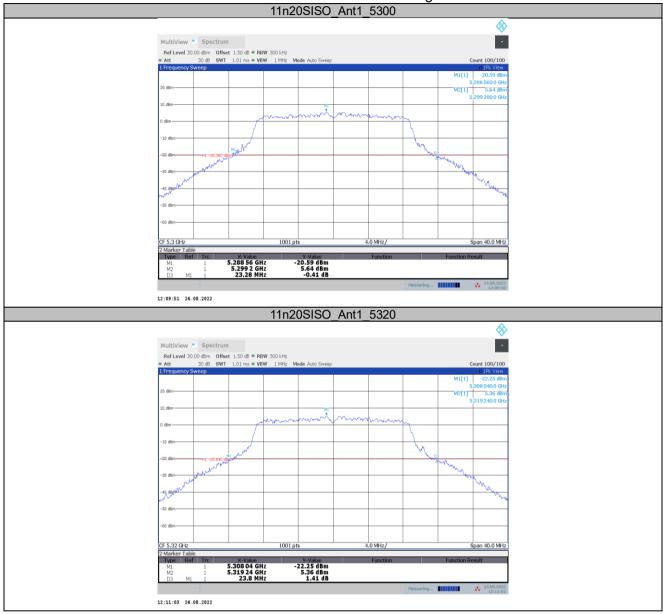
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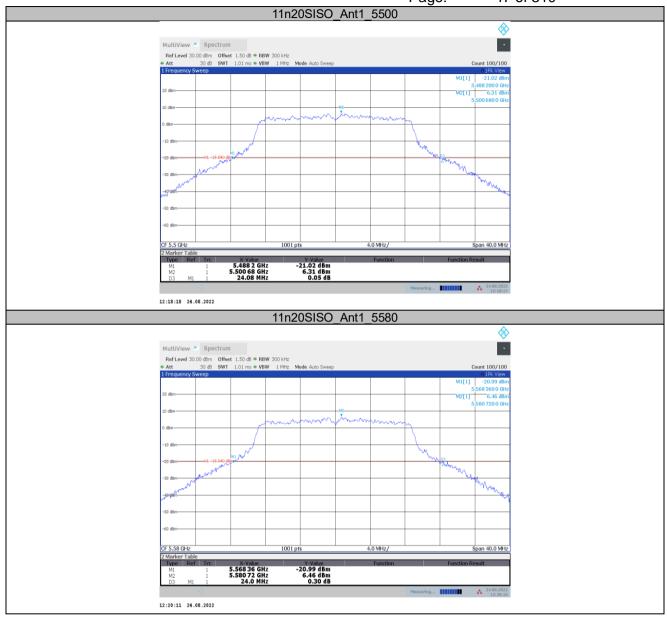
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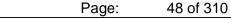
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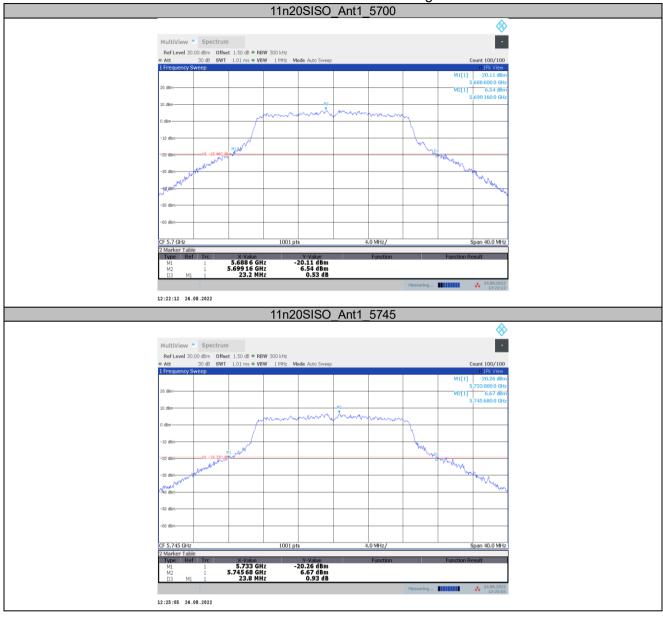
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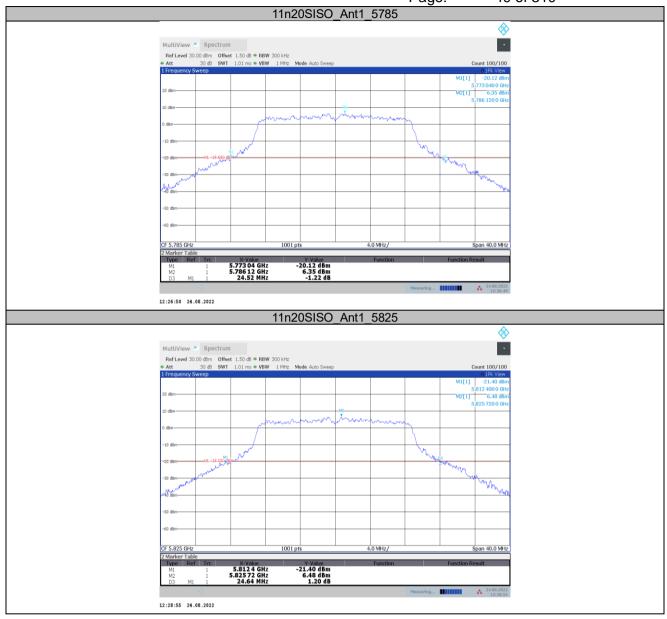
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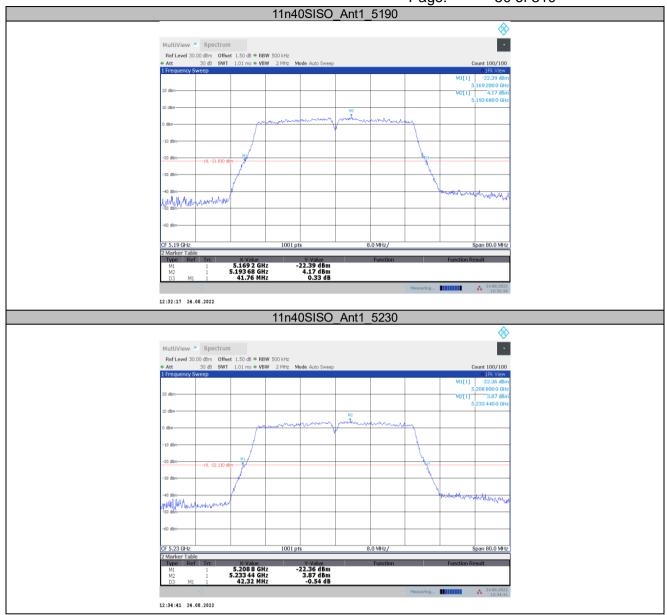
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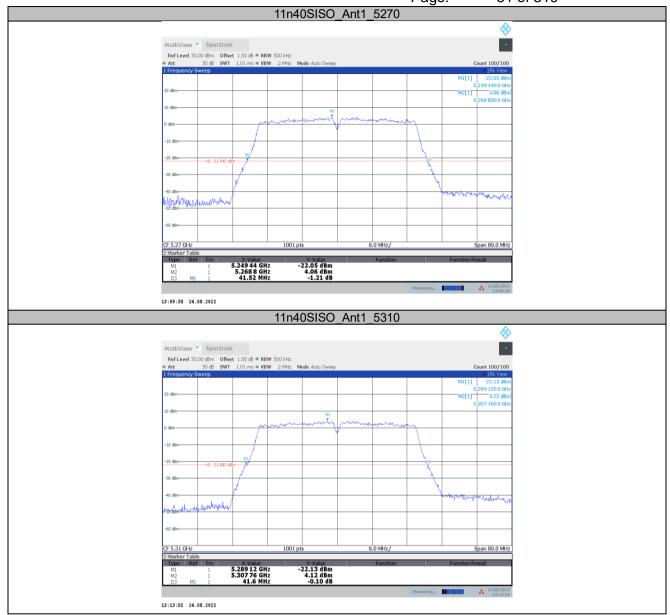
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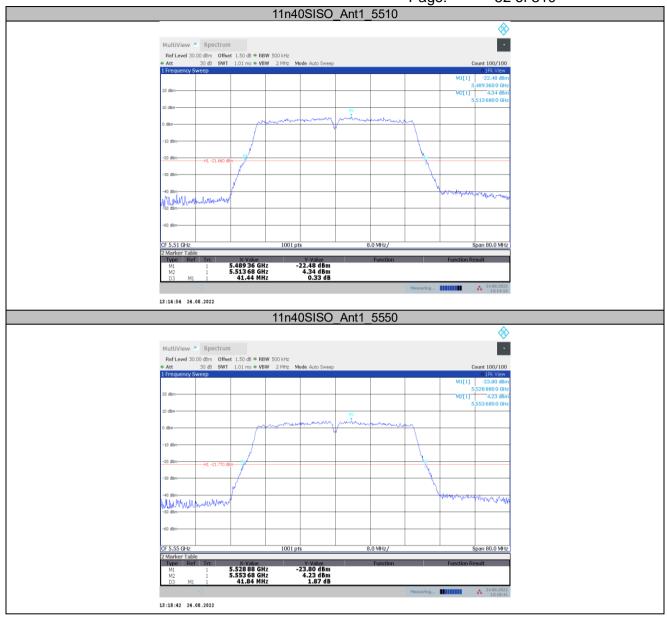
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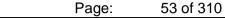
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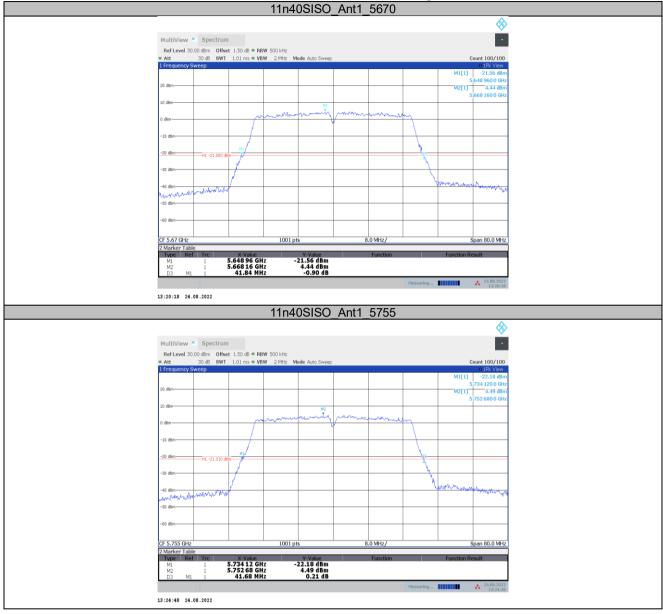
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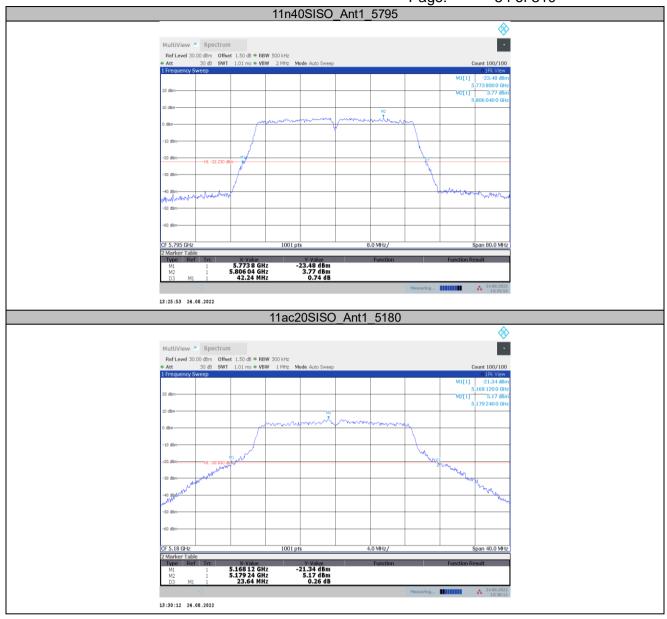
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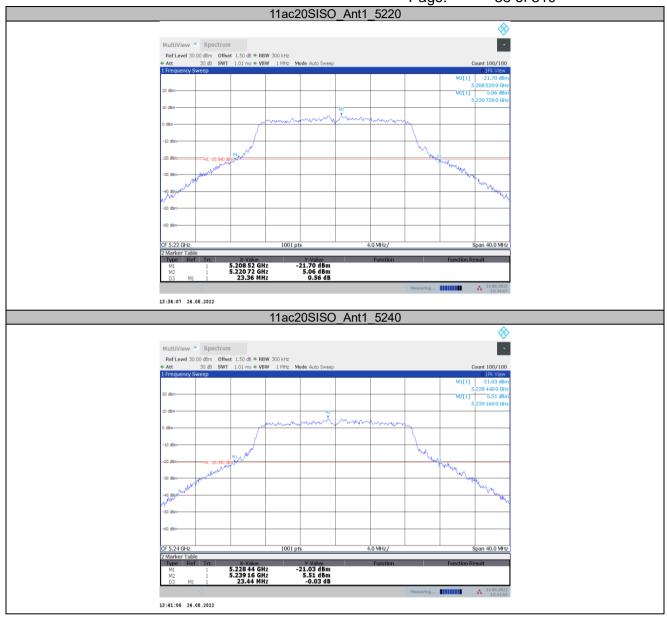
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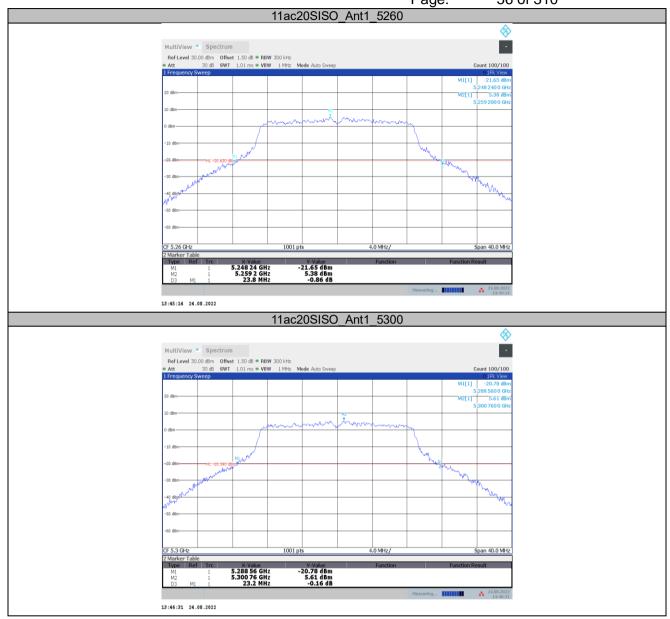
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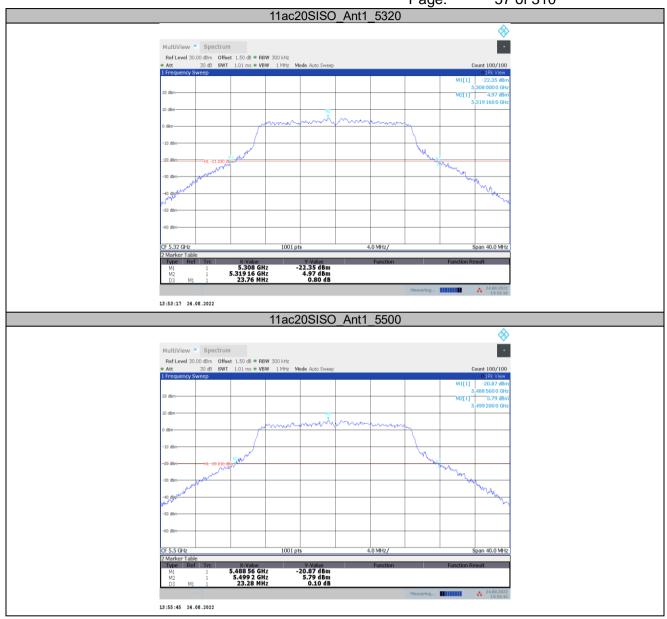
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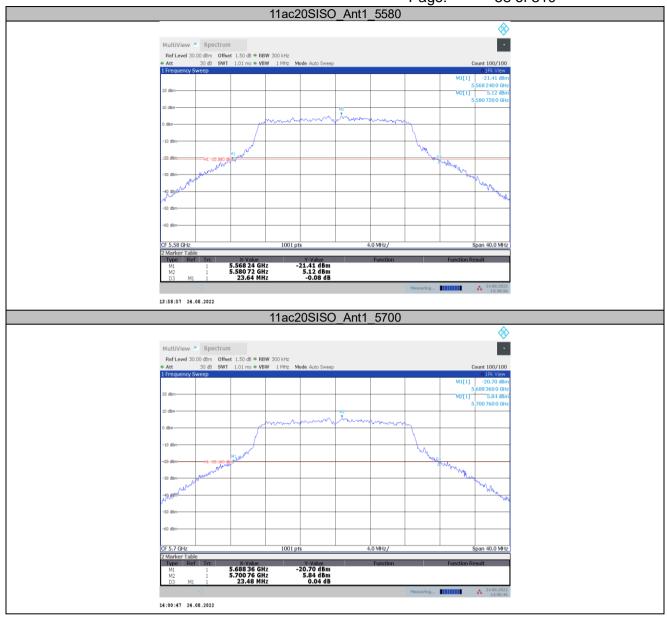
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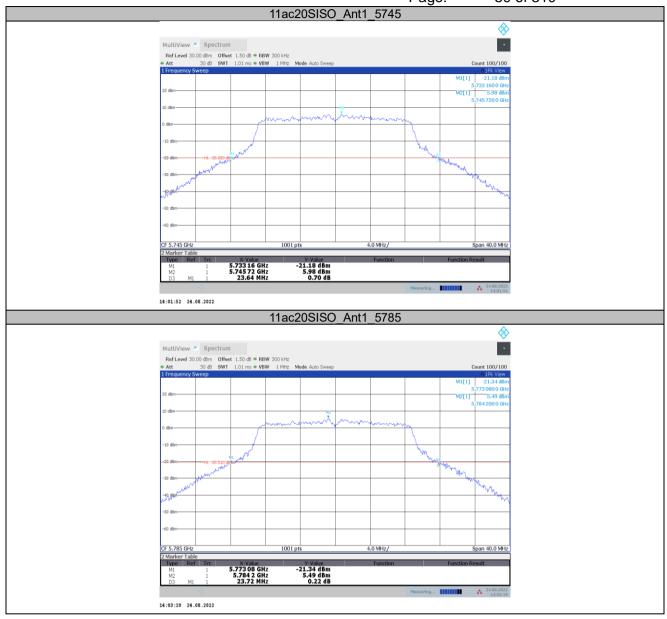
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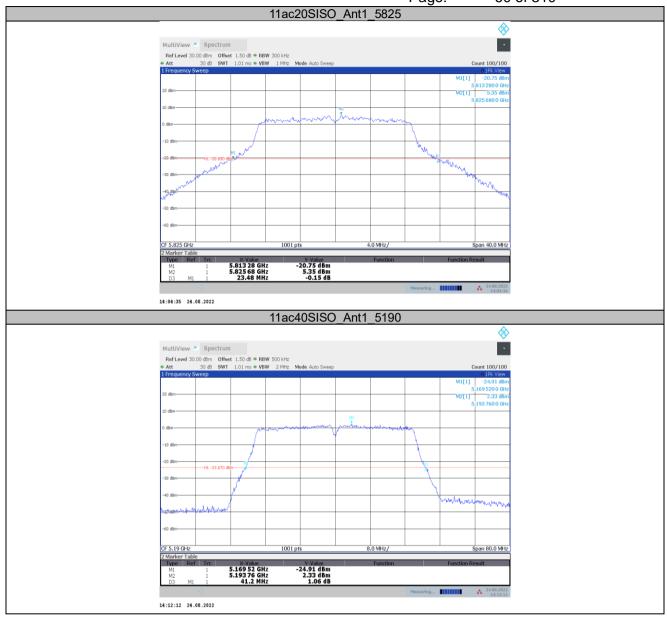
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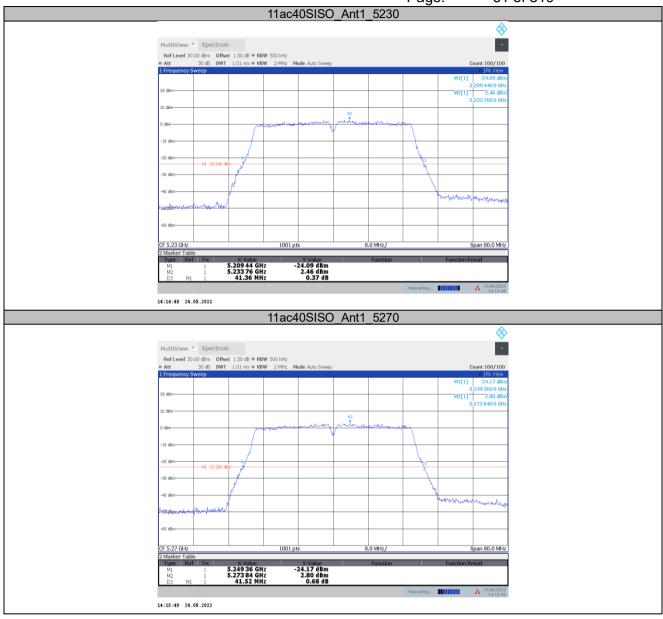
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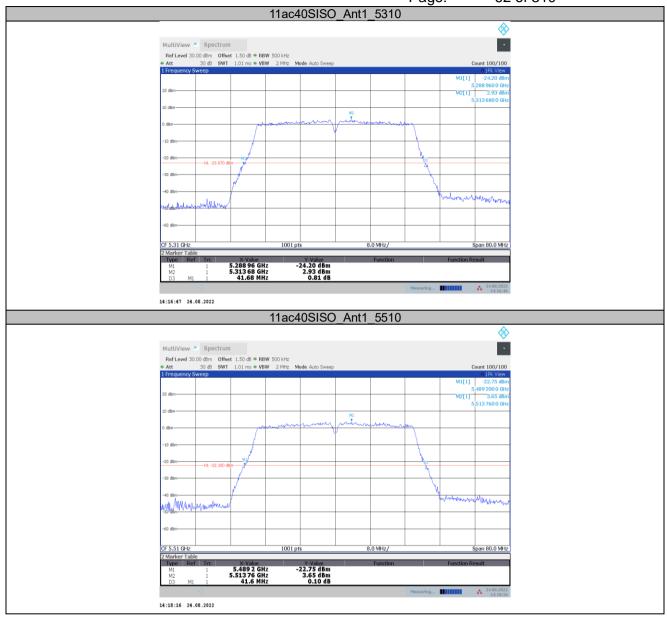
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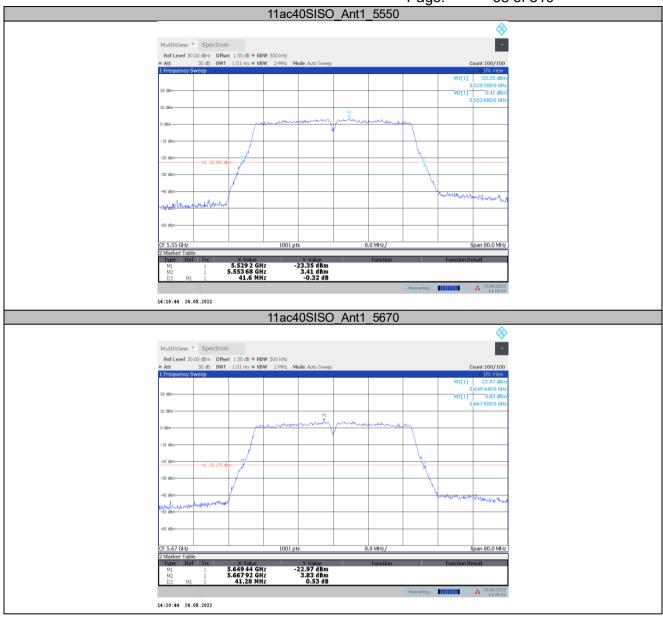
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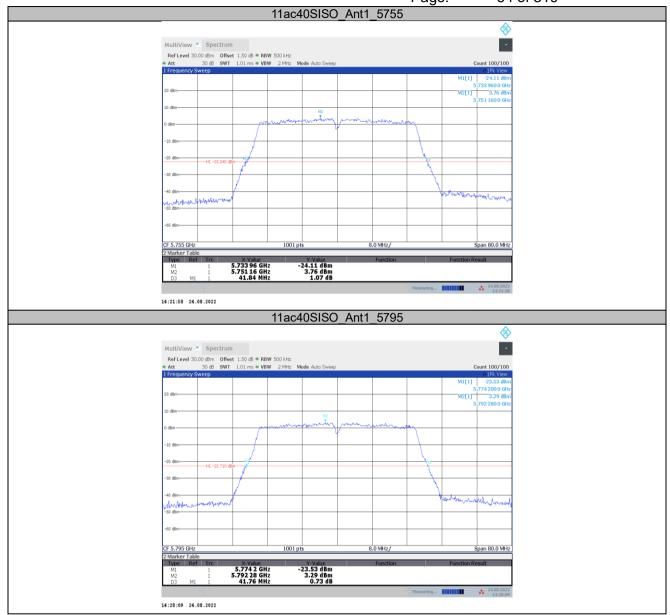
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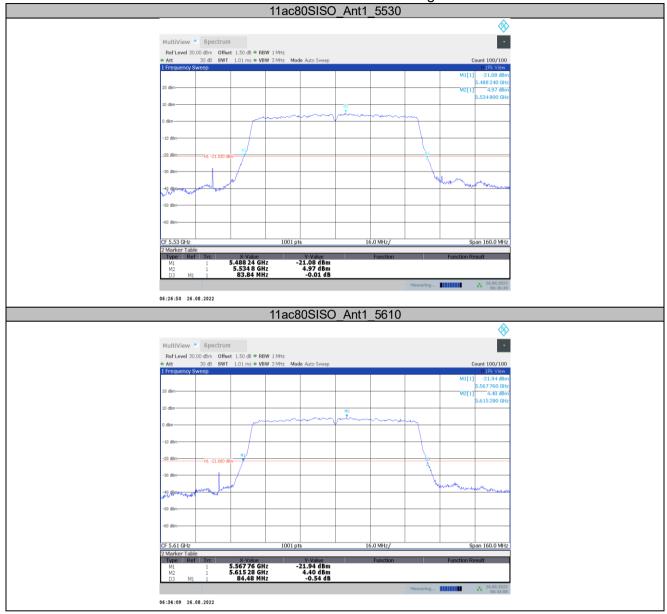
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Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
		5180	17.076	5171.452	5188.529	
		5220	17.033	5211.488	5228.522	
11a		5240	17.053	5231.463	5248.516	
	Ant1	5260	17.028	5251.461	5268.489	
		5300	17.056	5291.453	5308.509	
		5320	17.029	5311.460	5328.489	
		5500	17.043	5491.457	5508.499	
		5580	17.066	5571.459	5588.524	
		5700	17.117	5691.418	5708.535	
		5745	17.116	5736.417	5753.533	
		5785	17.113	5776.403	5793.517	
		5825	17.08	5816.420	5833.500	
		5180	18.192	5170.926	5189.117	
		5220	18.229	5210.916	5229.146	
		5240	18.259	5230.884	5249.143	
		5260	18.185	5250.933	5269.118	
		5300	18.24	5290.877	5309.116	
11n20SISO	Ant1	5320	18.209	5310.909	5329.118	
1111203130	Anti	5500	18.22	5490.918	5509.138	
		5580	18.225	5570.902	5589.126	
		5700	18.227	5690.891	5709.119	
		5745	18.276	5735.861	5754.137	
		5785	18.225	5775.890	5794.115	
		5825	18.273	5815.869	5834.142	
11n40SISO	Ant1	5190	36.63	5171.775	5208.405	
		5230	36.606	5211.813	5248.419	Reporting only
		5270	36.596	5251.794	5288.390	
		5310	36.595	5291.758	5328.353	
		5510	36.607	5491.783	5528.390	
		5550	36.626	5531.766	5568.392	
		5670	36.622	5651.779	5688.402	
		5755	36.589	5736.752	5773.342	
		5795	36.617	5776.749	5813.366	
	Ant1	5180	18.228	5170.900	5189.128	
		5220	18.244	5210.894	5229.139	
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		5260	18.209	5250.919	5269.128	
		5300	18.225	5290.901	5309.126	
11ac20SISO		5320	18.216	5310.905	5329.121	
		5500	18.226	5490.915	5509.142	
		5580	18.207	5570.911	5589.118	
		5700	18.21	5690.904	5709.114	
		5745	18.229	5735.886	5754.116	
		5785	18.224	5775.882	5794.106	
		5825	18.222	5815.885	5834.107	_
		5190	36.535	5171.764	5208.299	_
		5230	36.528	5211.811	5248.339	_
		5270	36.526	5251.801	5288.327	_
11ac40SISO	Ant1	5310	36.506	5291.770	5328.276	_
		5510	36.526	5491.792	5528.318	
		5550	36.542	5531.762	5568.304	
		5670	36.517	5651.792	5688.309	



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•		5755	36.509	5736.758	5773.267
		5795	36.526	5776.744	5813.270
11ac80SISO	Ant1	5210	75.762	5172.323	5248.086
		5290	75.72	5252.282	5328.003
		5530	75.699	5492.337	5568.036
		5610	75.839	5572.157	5647.996
		5775	75.795	5737.149	5812.944



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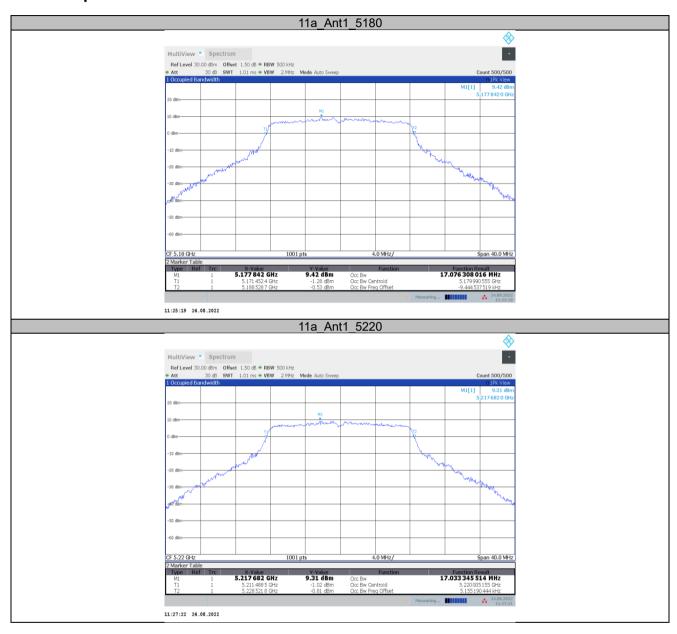


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Test Graphs





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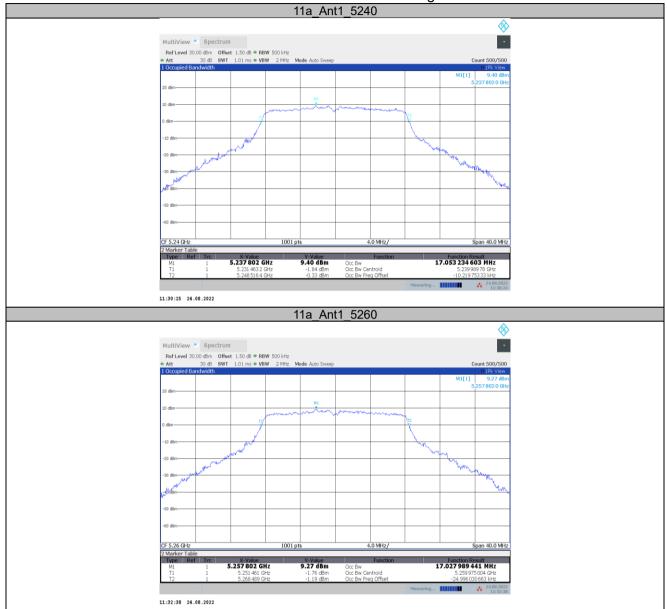
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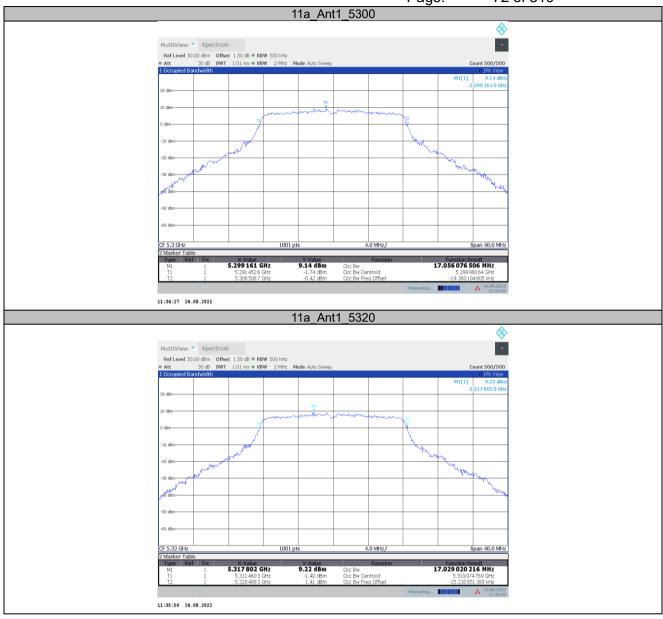
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