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### **TEST REPORT**

Test Result :	PASS *	
Date of Issue:	2023/07/07	
Date of Test:	2023/06/20 to 2023/07/07	
Date of Receipt:	2023/06/20	
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E	
FCC ID:	XMR2023SG368ZWF	
Trade Mark:	Quectel	
Model No.:	SG368Z-WF	
EUT Description:	Smart Module	
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China	
Manufacturer:	Quectel Wireless Solutions Co., Ltd.	
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China	
Applicant:	Quectel Wireless Solutions Co., Ltd.	
Application No.:	ZEWM2306000826RG	

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

Authorized Signature:

Erin 21

Ervin Li Regulatory Manager



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### 1 Version

	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2023/07/07		Original		

Prepared By	Dee . Zheng (Dee Zheng) / Test Engineer	
Checked By	Daniel Wang (Daniel Wang) / Reviewer	



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#### 2 **Test Summary**

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



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	Band III	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP) F≥1GHz &out-restricted:(PK) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS	
Restricted bands around fundamental frequency	Band I Band II-A Band II-C Band III	15.407(b) 15.205/15.209		Clause 4.10	PASS	A
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207		Clause 4.2	PASS	В
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 4.11	PASS	A
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	N/A
Note 1: Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz Note 2: Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Lab B SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.						



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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 200233, China			
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 200233, China			

#### 3.2 Test Location

Lab A:	
Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test engineer: Xing Guo	
Lab B:	
Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suz Area, China (Jiangsu) Pilot Free Trade Zone	
Post code:	215000
Test engineer:	King-p Li



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### 3.3 Test Facility

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

Lab A:
<ul> <li>A2LA (Certificate No. 3816.01)</li> <li>SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.</li> <li>VCCI</li> </ul>
The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.
Innovation, Science and Economic Development Canada
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized by ISED as an accredited testing laboratory.
CAB identifier: CN0006.
IC#: 4620C.
• FCC – Designation Number: CN1336
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized as an accredited testing laboratory.
Designation Number: CN1336.
Test Firm Registration Number: 787754
Lab B:
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.
<ul> <li>Innovation, Science and Economic Development Canada</li> </ul>
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:	Smart Module			
Model No.:	SG368Z-WF			
Trade Mark:	Quectel			
Hardware Version:	R1.0			
Software Version:	SG368ZWF	NAR60A04		
	RF Conduc	ted	Sample 1: E1C23DR40000116	
SN:	RSE		Sample 1: E1C23DS03000122 Sample 2: E1C23DR40000116	
	AC power I	ine	Sample 1: E1C23DS03000130	
	802.11a:	20 MHz cha	nnel bandwidth	
WLAN Mode Supported:	802.11n:	20 MHz / 40	MHz channel bandwidth	
	802.11ac:	20 MHz / 40	MHz / 80 MHz channel bandwidth	
Operation Frequency:	5250MHz t	to 5250MHz to 5350MHz to 5725MHz to 5850MHz		
	802.11a:	OFDM (BPS	SK, QPSK, 16QAM, 64QAM)	
Modulation Type:	802.11n:	OFDM (BPS	SK, QPSK, 16QAM, 64QAM)	
	802.11ac:	OFDM (BPS	SK, QPSK, 16QAM, 64QAM, 256QAM)	
	20MHz:	802.11a/n(H	IT20)/ac(VHT20)	
Channel Spacing:	40MHz:	802.11n(HT	40)/ac(VHT40)	
	80MHz:	802.11ac(VI	HT80)	
Antenna Type:	🛛 Externa	I, 🗌 Integrate	ed	
Antenna Gain:	5250MHz to 5470MHz to 5725MHz to Note:	Hz to 5250MHz: 2dBi (Ant0); Hz to 5350MHz: 2dBi (Ant0); Hz to 5725MHz: 3.2dBi (Ant0); Hz to 5850MHz: 3.3dBi (Ant0);		
	manufactur	nna gain are derived from the gain information report provided by the urer.		
	SISO 🛛	802.11a/n	/ac	
			.11a/n/ac: Tx & Rx	
Smart System:			2.11n/ac: Tx & Rx	
			2.11n/ac: Tx & Rx	
Diversity 802.11a: Tx & Rx			Tx & Rx	



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TPC Function:	⊠Support, ⊡Not Support			
DES Eurotion	Master			
DFS Function:	Slave with radar detection		ve without radar detection	
	4900MHz ~5250MHz(1.5dB)		5250MHz ~5350MHz(1.7dB)	
RF Cable:	5470MHz ~5725MHz(1.8dB)		5725MHz ~ 5850MHz(1.5dB)	
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Remark:

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

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

For UNII Band I:			
Mode Channel Frequency(MHz		Frequency(MHz)	
	The Lowest channel	5180	
IEEE 802.11a/n/ac 20MHz	The Middle channel	5200	
	The Highest channel	5240	
IEEE 802.11n/ac 40MHz	The Lowest channel	5190	
	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	
	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(M		Frequency(MHz)	
	The Lowest channel	5500	
IEEE 802.11a/n/ac 20MHz	The Middle channel	5580	
	The Highest channel	5700	
	The Lowest channel	5510	
IEEE 802.11n/ac 40MHz	The Middle channel	5550	
	The Highest channel	5670	
IEEE 802.11ac 80MHz	The Middle channel	5530	

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

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

Note:

1. The above Frequency and Channel were 802.11a, 802.11n HT20 and 802.11ac VHT20.

2. The above Frequency and Channel were 802.11n HT40 and 802.11ac VHT40.

3. The above Frequency and Channel were 802.11ac VHT80.



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#### 3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.4
Remark: NV: Normal Voltage NT: Normal Temperature		

#### 3.6 Description of Support Units

Description	Manufacturer	Model No.
Router	NETGEAR	R7800

#### 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 ante	nna on the main PCB and no consideration of replacement.		
The best case gain of the an	tenna is		
5150MHz to 5250MHz: 2dBi	(Ant0);*		
5250MHz to 5350MHz: 2dBi	(Ant0);*		
5470MHz to 5725MHz: 3.2df	5470MHz to 5725MHz: 3.2dBi (Ant0);*		
5725MHz to 5850MHz: 3.3dBi (Ant0); *			
*Note:			
The antenna gain are derived from the gain information report provided by the manufacturer. Remark:			
As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.			



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#### 4.2 AC Power Line Conducted Emissions

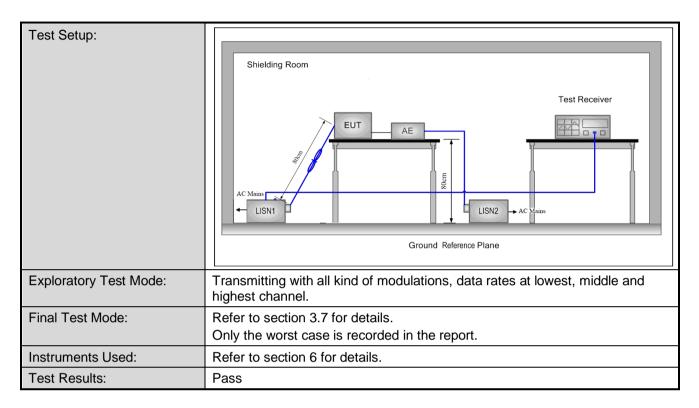
Test Requirement:	47 CFR Part 15 Section 15.207		
Test Method:	ANSI C63.10-2020 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz	
Limit:		Limit (dl	BuV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the log	arithm of the frequency.	
Test Procedure:	0.5-5 56 46		ugh a LISN 1 (Line a $50\Omega/50\mu$ H + $5\Omega$ linear the EUT were to the ground reference eing measured. A ultiple power cables to a ot exceeded. table 0.8m above the angement, the EUT was rence plane. The rear reference plane. The horizontal ground m the boundary of the blane for LISNs s distance was EUT. All other units of 8 m from the LISN 2.



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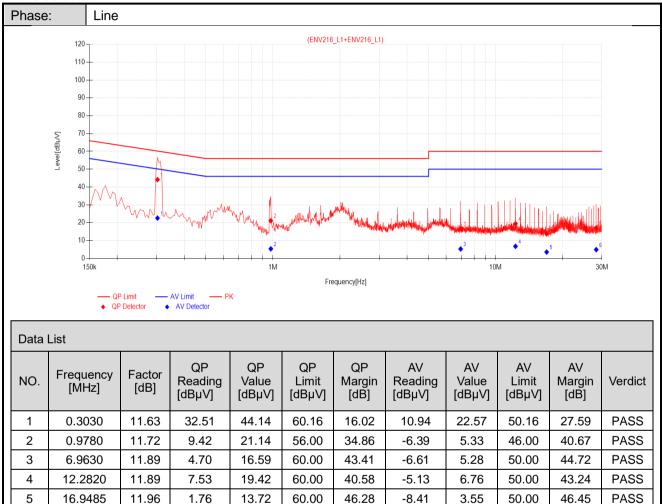
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#### Measurement Data

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.



6 Remark:

28.2975

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

60.00

42.95

-7.18

4.90

50.00

45.10

PASS

17.05

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

4.97

3. Margin = Limit[dBµV] – Value[dBµV]

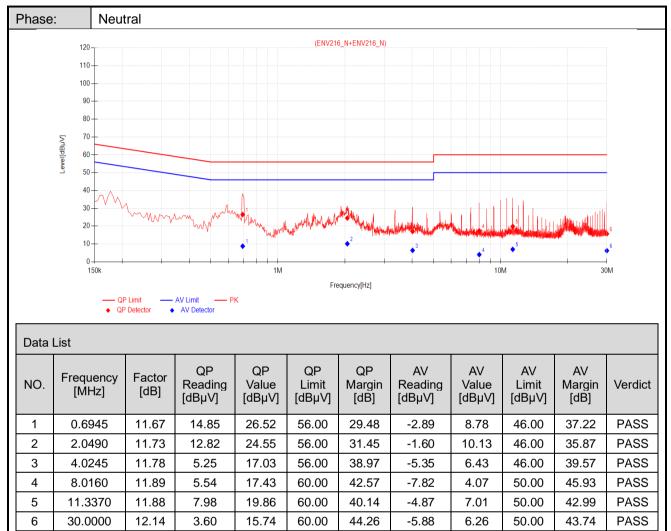
12.08



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Remark:

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

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dBµV] – Value[dBµV]



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#### 4.3 Duty Cycle

The detailed test data see: Appendix

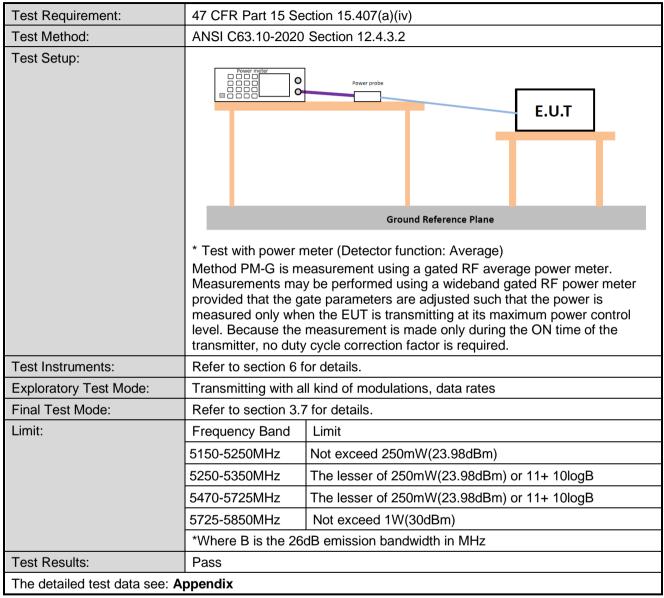


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#### 4.4 Conducted Output Power





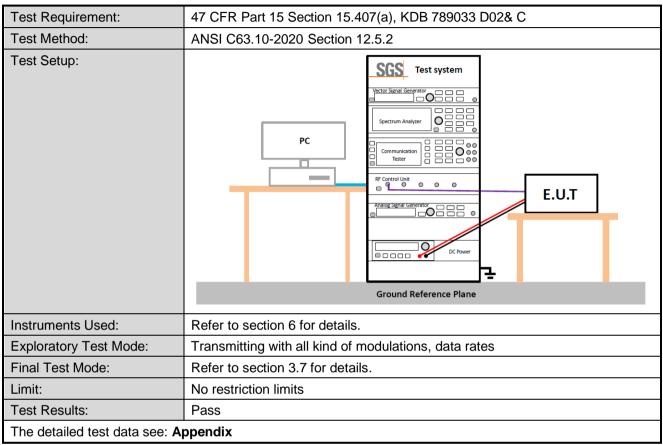
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#### 4.5 26dB Emission Bandwidth





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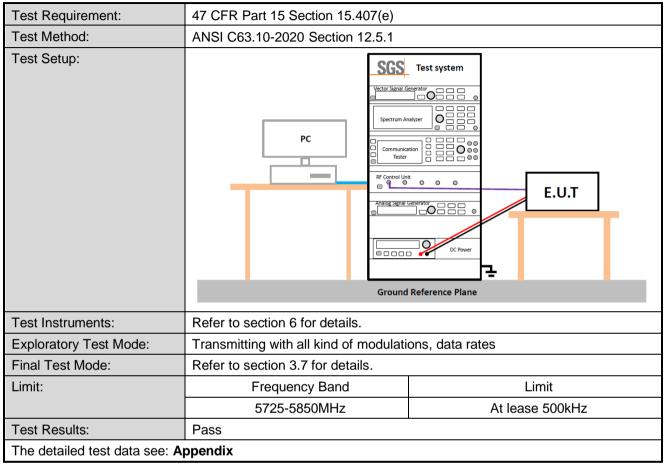
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#### 4.6 6dB Emission Bandwidth





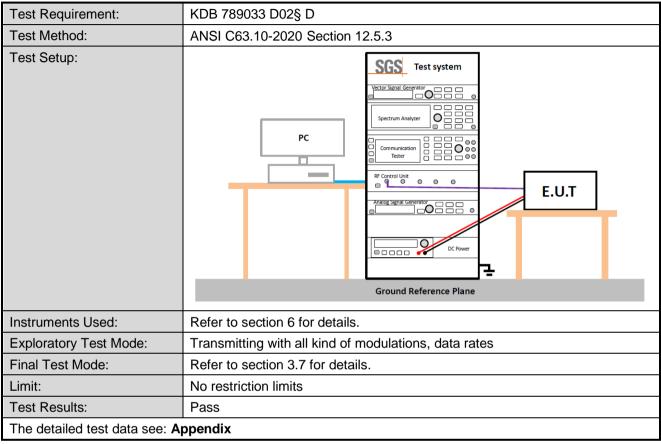
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#### 4.7 99% Occupied Bandwidth





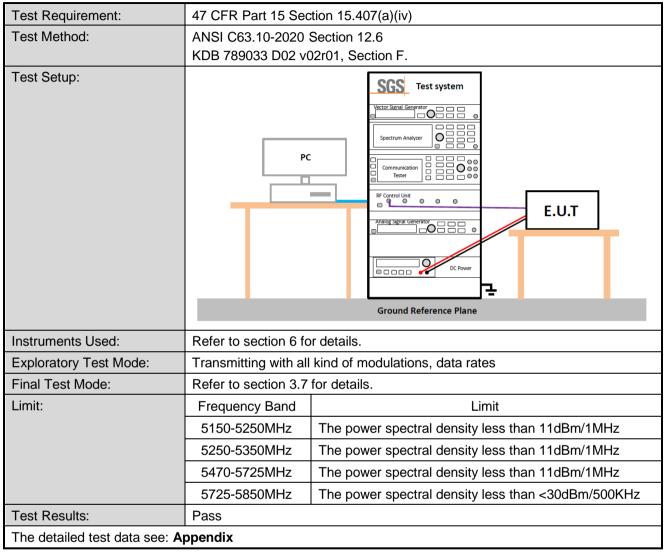
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#### 4.8 Power Spectral Density





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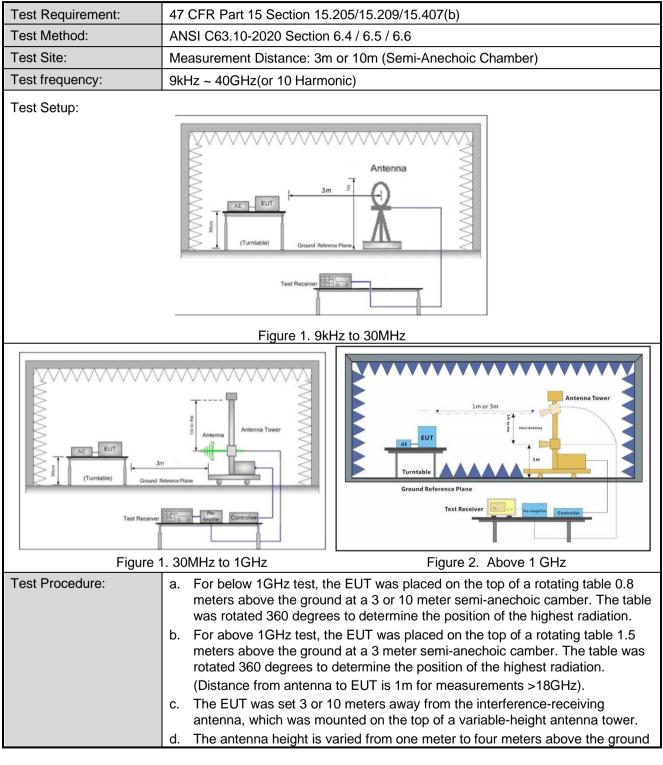
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### 4.9 Radiated Spurious Emissions





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	<ul> <li>to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>g. Test the EUT in the outermost channels.</li> <li>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.</li> <li>i. Repeat above procedures until all frequencies measured was complete.</li> <li>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</li> <li>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.</li> <li>l. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.</li> </ul>
Test Configuration:	Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW $\geq$ 10Hz, when duty cycle is no less than 98 percent. • VBW $\geq$ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.



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Test Results:	Pass
The detailed test data see	a: Appendix



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### 4.10 Restricted bands around fundamental frequency

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

#### Test Setup:

	Im or 3m     Antenna Tower       Im or 3m     Im or 3m       Im or 3m			
Test Procedure:	<ul> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> </ul>			



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	<ul> <li>g. Test the EUT in the outermost channels.</li> <li>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.</li> <li>i. Repeat above procedures until all frequencies measured was complete.</li> </ul>
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\ge$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW $\ge$ 1/T, when duty cycle is less than 98 percent. • VBW $\ge$ 1/T, when duty cycle is less than 98 percent.
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	<b>Radar Detection</b>		
DFS Detection Threshold	Yes	Not required		
Channel Closing Transmission Time	Yes	Yes		
Channel Move Time	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required Client Without Radar		
Additional requirements for devices with	Master Device or Client with			
multiple bandwidth modes	<b>Radar Detection</b>	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		
<b>Note:</b> 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 devi	-	-		

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)			
$EIRP \ge 200 milliwatt$	-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 dE	Bi 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 t				
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			
Type	(µsec)	(µsec)		Percentage of	Number of			
				Successful	Trials			
				Detection				
0	1	1428	18	See Note 1	See Note 1			
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\frac{\operatorname{Roundup}\left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix} \cdot \\ \begin{pmatrix} \frac{19 \cdot 10^{6}}{\operatorname{PRI}_{\mu \operatorname{sec}}} \end{pmatrix} \right\}}{\left( \frac{19 \cdot 10^{6}}{\operatorname{PRI}_{\mu \operatorname{sec}}} \right)}$	60%	30			
2	1-5	150-230	23-29	60%	30			
3	6-10	200-500	16-18	60%	30			
4	11-20	200-500	12-16	60%	30			
Aggregate (Radar Types 1-4) 80%								
	<b>Note 1:</b> 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	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval			
Number		(Microseconds)			
1	1930.5	518			
2	1858.7	538			
3	1792.1	558			
4	1730.1	578			
5	1672.2	598			
6	1618.1	618			
7	1567.4	638			
8	1519.8	658			
9	1474.9	678			
10	1432.7	698			
11	1392.8	718			
12	1355	738			
13	1319.3	758			
14	1285.3	778			
15	1253.1	798			
16	1222.5	818			
17	1193.3	838			
18	1165.6	858			
19	1139	878			
20	1113.6	898			
21	1089.3	918			
22	1066.1	938			
23	326.2	3066			

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

Radar Type	Number of Trials	Number of Successful	Minimum Percentage		
		Detections	of Successful		
			Detection		
1 35		29	82.9%		
2	2 30 3 30		60% 90%		
3					
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				

#### - Dales De Jea Test Weesefer

Table 7 – Frequency	Hopping	Radar Te	st Waveform

Radar Type	Pulse Width	PRI (µsec)	Pulses per	Hopping Rate	Hopping Sequence	Minimum Percentage of	Minimum Number of
	(µsec)		Нор	(kHz)	Length	Successful	Trials
					(msec)	Detection	
6	1	333	9	0.333	300	70%	30

#### 4.11.4 Response Requirements

#### **Table 4: DFS Response Requirement Values**

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

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

The detailed test data see: Appendix



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

Lab A					
No. Item		Measurement Uncertainty			
1	Radio Frequency	± 9.84Hz			
2	Duty cycle	± 0.185%			
3	Occupied Bandwidth	± 0.20%			
4	RF conducted power	± 0.42dB			
5	RF power density	± 1.97dB			
6	Conducted Spurious emissions	± 0.42dB			
7		±4.8dB (30MHz-1GHz)			
	Radiated Emission	±4.68dB (1GHz-6GHz)			
		±4.52dB (6GHz-18GHz)			
		±5.26dB (18GHz-40GHz)			

#### 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.

Lab B					
No.	Item	Measurement Uncertainty			
1	Conduction Emission	± 2.90dB (150kHz to 30MHz)			
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

Lab A RF Test System							
Test Equipment	Manufacturer	Model No. Inventory No.		Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Spectrum Analyzer	Keysight	N9020A	SZ-WRG-M-002	2022/11/18	2023/11/17		
Signal Generator	Keysight	N5181A	SZ-WRG-M-005	2022/11/18	2023/11/17		
DC power supply	Tonscend	TS0806-4ADC	SZ-WRG-A-007	NCR	NCR		
RF Control Unit	Tonscend	JS0806-2	SZ-WRG-M-008	2022/11/18	2023/11/17		
Radio Communication Tester	Rohde & Schwarz	CMW270	SZ-WRG-M-009	2023/02/16	2024/02/15		
Radio Communication Tester	Rohde & Schwarz	CMW-Z800A	SZ-WRG-M-010	NCR	NCR		
Signal Generator	Rohde & Schwarz	SMM100A	SZ-WRG-M-011	2023/02/22	2024/02/21		
Test Software	Tonscend	JS1120 V3.2.22	N/A	NCR	NCR		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-077	2023/05/26	2024/05/25		
Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-012	2023/02/16	2024/02/15		



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Lab A Radiated spurious emissions						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
EMI TEST RECEIVER	Rohde & Schwarz	ESR	SZ-WRG-M-047	2023/02/16	2024/02/15	
Signal &Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2023/02/16	2024/02/15	
Low Noise Amplifier 9K- 3GHz	Tonscend	TAP9K3G32	SZ-WRG-M-049	2023/02/16	2024/02/15	
Low Noise Amplifier 30M- 8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2023/02/16	2024/02/15	
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2023/02/16	2024/02/15	
Low Noise Amplifier 18G- 40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2023/02/16	2024/02/15	
Active Loop Antenna 9kHz- 30MHz	SCHWARZBECK	FMZB 1519B	SZ-WRG-M-053	2022/01/16	2024/01/15	
TRILOG Breitband Antenne 30MHz- 1GHz	SCHWARZBECK	VULB 9168	SZ-WRG-M-054	2022/01/16	2024/01/15	
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2022/01/16	2024/01/15	
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2022/01/16	2024/01/15	
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-M-058	NCR	NCR	
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022/01/05	2025/01/04	
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-022	2023/02/17	2024/02/16	
Spectrum Analyzer	Keysight	N9020A	SZ-WRG-M-002	2022/11/18	2023/11/17	



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



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#### 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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# Appendix



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#### Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
		5180	22.36	5169.20	5191.56	
		5220	20.96	5209.48	5230.44	
		5240	21.80	5228.88	5250.68	
		5260	21.80	5249.04	5270.84	
		5300	21.44	5289.24	5310.68	
		5320	21.56	5309.28	5330.84	
		5500	21.28	5489.36	5510.64	
11a	Ant0	5580	21.04	5569.44	5590.48	
		5700	21.72	5689.08	5710.80	
		5720	21.48	5709.08	5730.56	
		5720_UNII-2C	15.92	5709.08	5725	
		5720_UNII-3	5.56	5725	5730.56	
		5745	21.56	5733.88	5755.44	
		5785	21.36	5774.28	5795.64	
		5825	21.84	5813.84	5835.68	
		5180	21.96	5169.24	5191.20	
		5220	22.84	5209.00	5231.84	
		5240	22.04	5228.92	5250.96	
		5260	21.92	5249.04	5270.96	
		5300	21.80	5289.04	5310.84	
		5320	21.92	5308.92	5330.84	
	Ant0	5500	22.00	5489.16	5511.16	For Report Purpose
11n20SISO		5580	22.16	5568.92	5591.08	
		5700	21.68	5689.12	5710.80	
		5720	21.88	5709.04	5730.92	
		5720 UNII-2C	15.96	5709.04	5725	
		5720 UNII-3	5.92	5725	5730.92	
		5745	21.64	5734.16	5755.80	
		5785	21.88	5773.96	5795.84	
		5825	21.76	5814.24	5836.00	
		5190	42.64	5168.80	5211.44	
	Ant0	5230	42.48	5208.72	5251.20	
		5270	42.64	5248.80	5291.44	
		5310	42.80	5288.48	5331.28	
		5510	42.64	5488.88	5531.52	
11-100100		5550	42.24	5528.80	5571.04	
11n40SISO		5670	42.40	5648.64	5691.04	
		5710	41.92	5688.96	5730.88	
		5710 UNII-2C	36.04	5688.96	5725	
		5710 UNII-3	5.88	5725	5730.88	
		5755	42.08	5734.12	5776.20	
		5795	42.56	5773.48	5816.04	
	Ant0	5180	21.60	5169.04	5190.64	
		5220	21.20	5209.44	5230.64	
		5240	21.36	5229.32	5250.68	
11ac20SISO		5260	21.12	5249.48	5270.60	
		5300	21.64	5289.28	5310.92	
		5320	21.12	5309.36	5330.48	
		5500	21.44	5489.28	5510.72	1



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		5580	21.48	5569.20	5590.68
		5700	21.16	5689.40	5710.56
		5720	21.60	5708.92	5730.52
		5720_UNII-2C	16.08	5708.92	5725
		5720_UNII-3	5.52	5725	5730.52
		5745	20.96	5734.28	5755.24
		5785	20.96	5774.44	5795.40
		5825	21.40	5814.24	5835.64
		5190	42.40	5169.04	5211.44
		5230	42.32	5209.20	5251.52
	Ant0	5270	42.24	5248.72	5290.96
		5310	42.08	5289.04	5331.12
		5510	41.76	5488.88	5530.64
11ac40SISO		5550	42.72	5528.88	5571.60
		5670	42.72	5648.48	5691.20
		5710	41.76	5688.96	5730.72
		5710_UNII-2C	36.04	5688.96	5725
		5710_UNII-3	5.72	5725	5730.72
		5755	42.48	5733.48	5775.96
		5795	42.64	5773.64	5816.28
	Ant0	5210	83.68	5168.72	5252.40
		5290	84.32	5247.92	5332.24
11ac80SISO		5530	82.88	5488.72	5571.60
		5610	82.40	5568.88	5651.28
		5690	82.24	5648.88	5731.12
		5690_UNII-2C	76.12	5648.88	5725
		5690_UNII-3	6.12	5725	5731.12
		5775	82.88	5733.56	5816.44



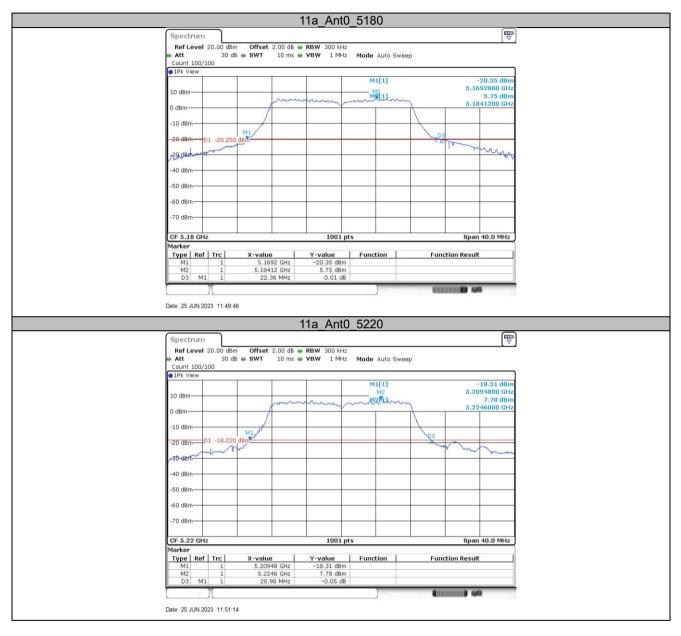
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#### **Test Graphs**



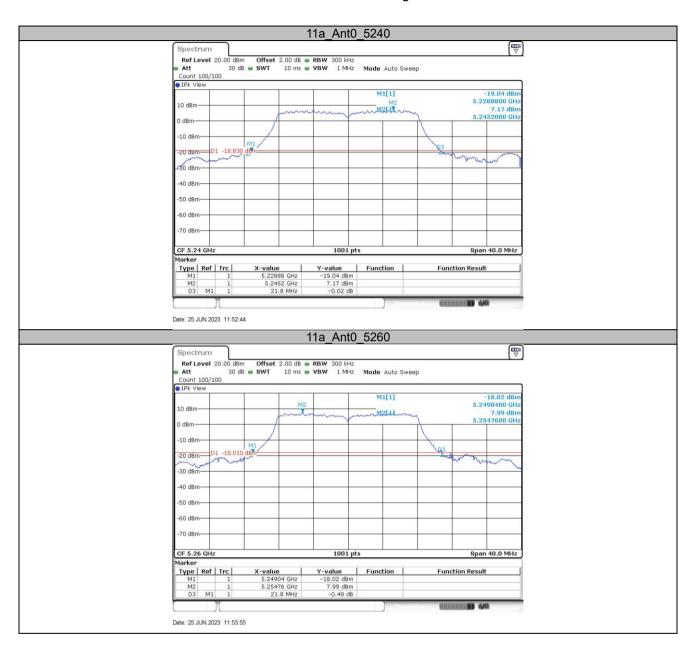


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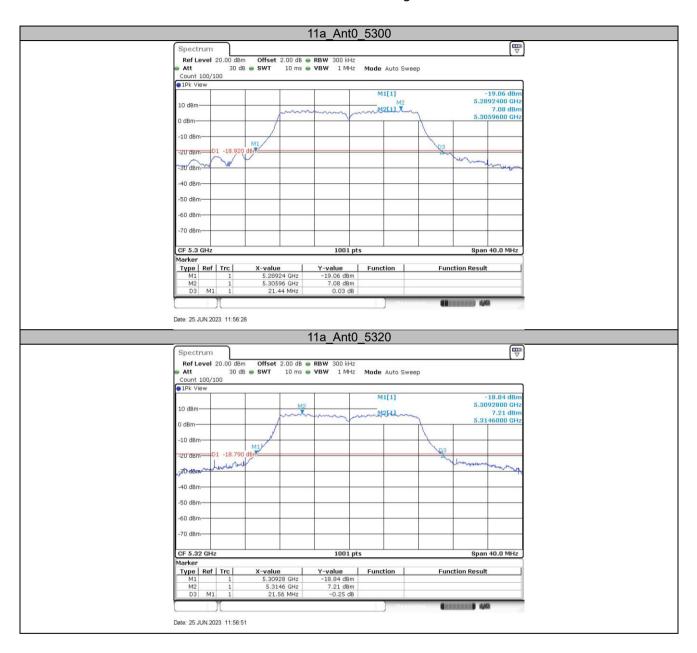


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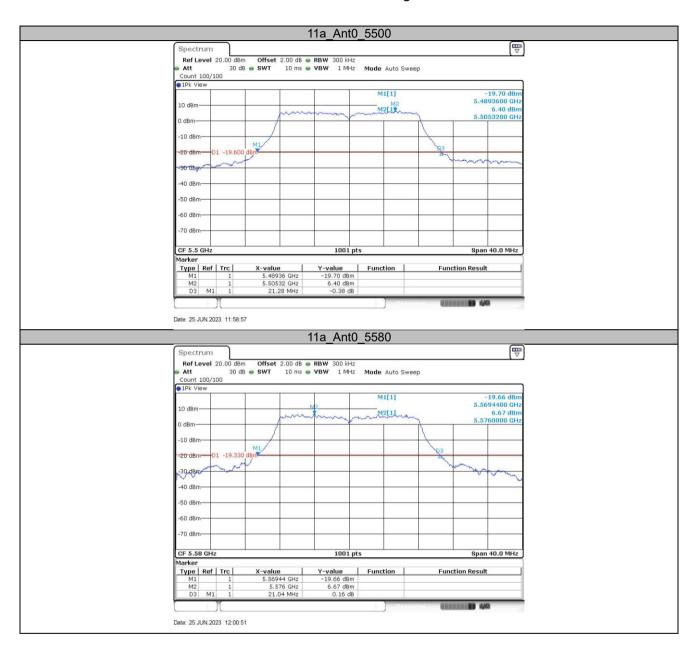
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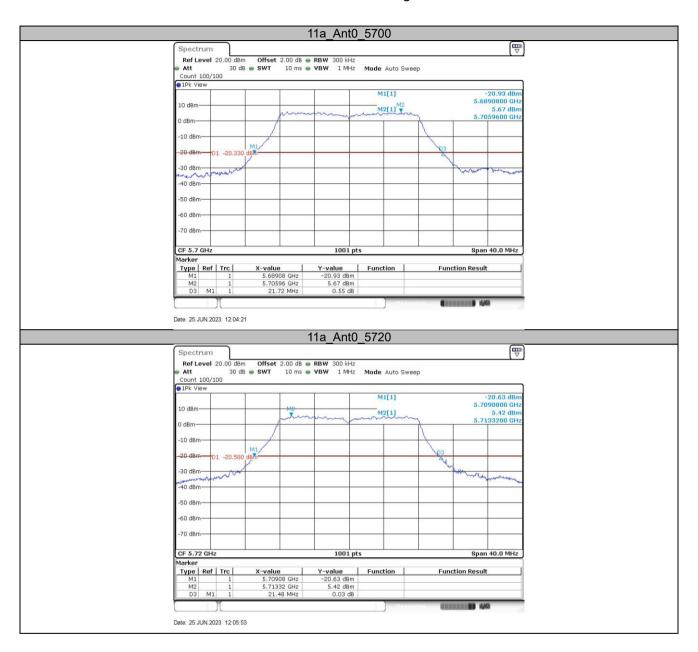
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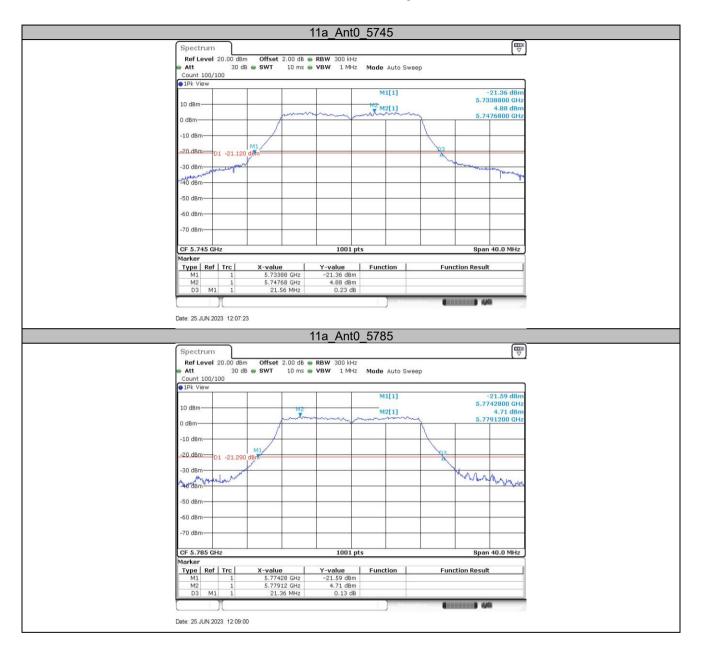
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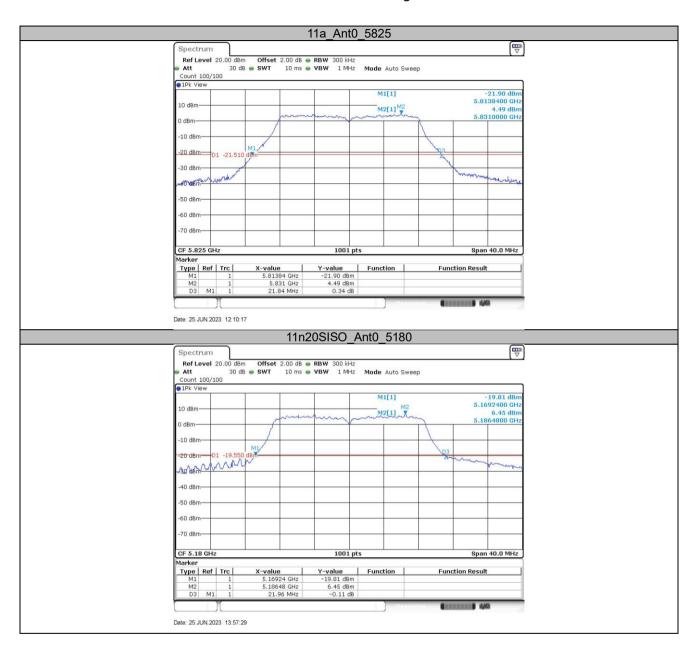




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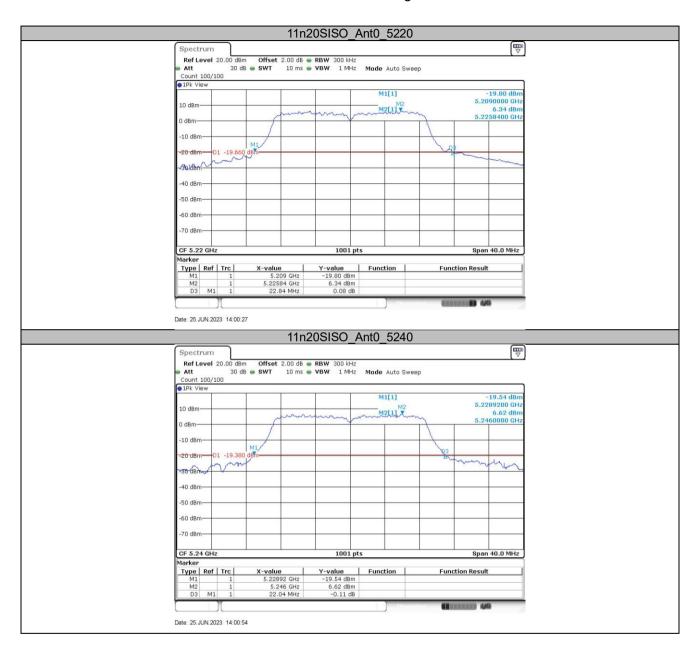


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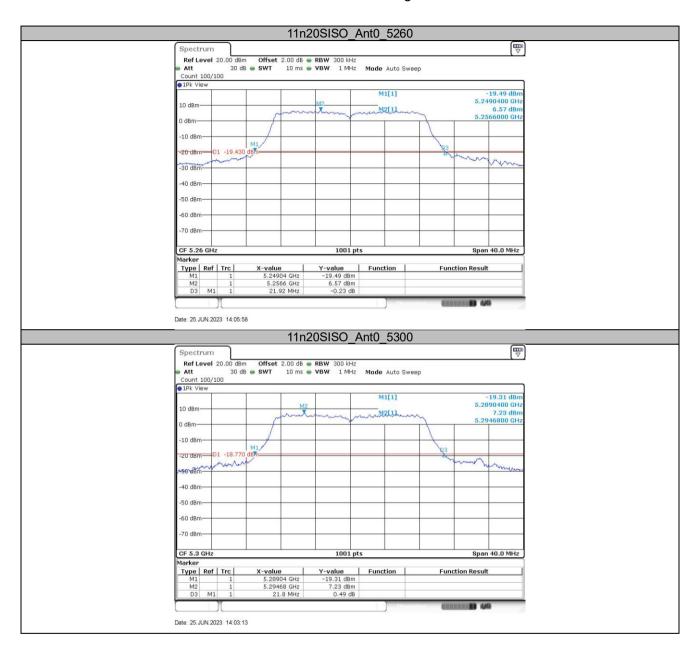


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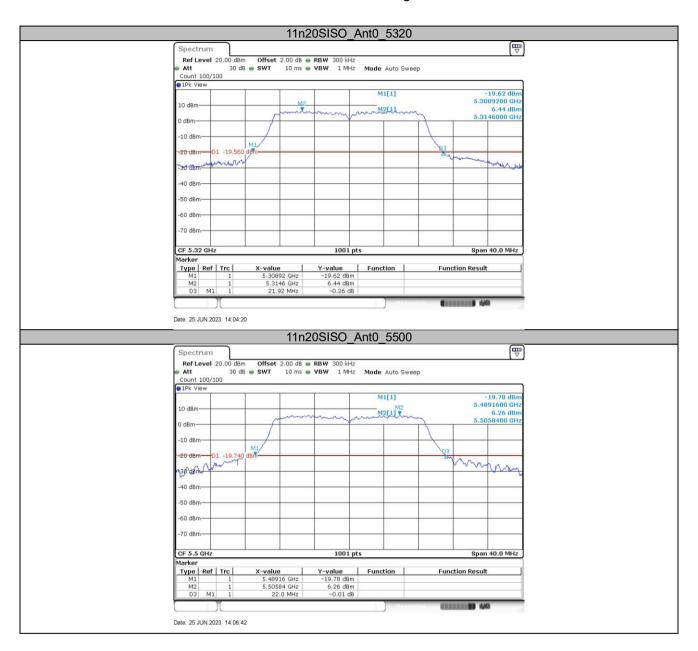


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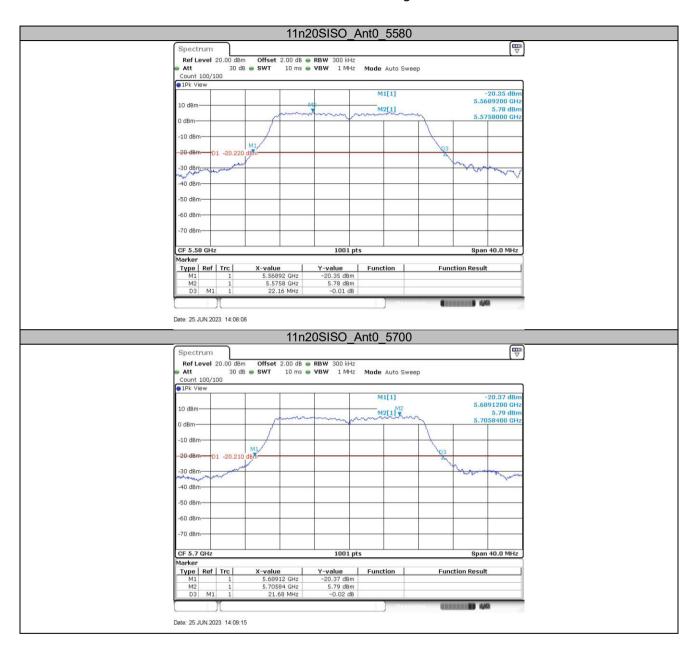
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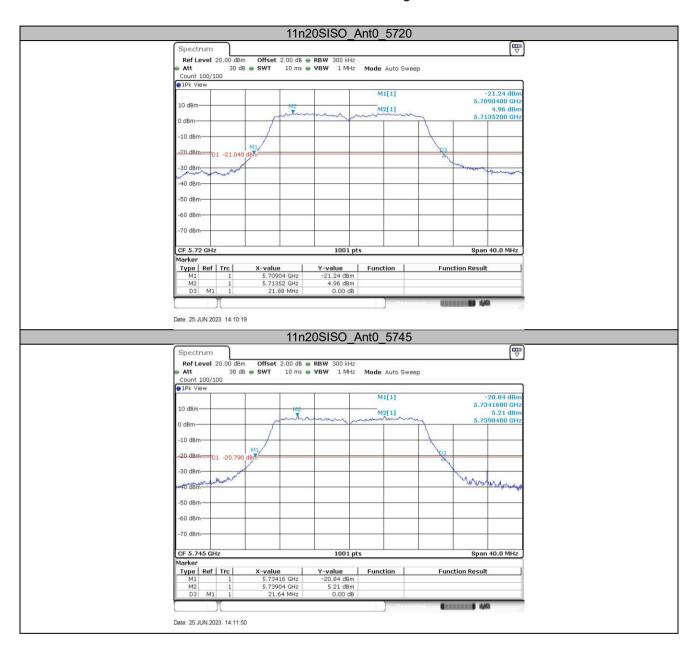


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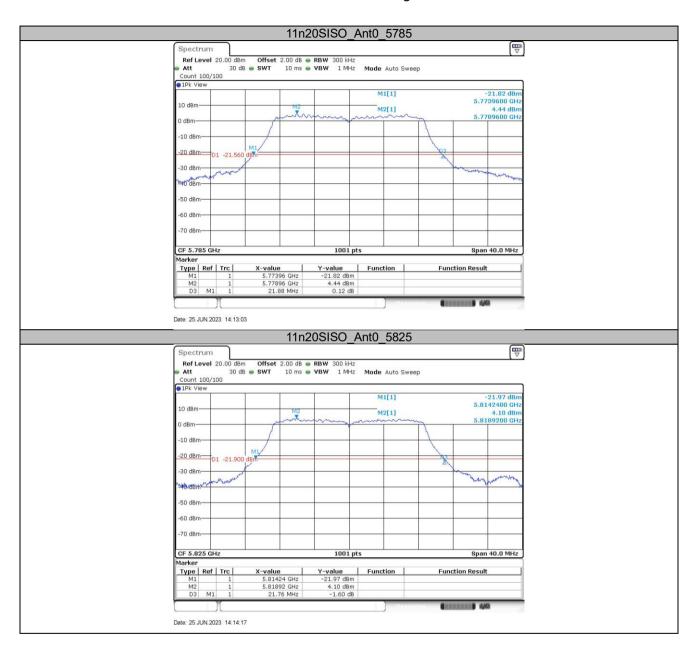


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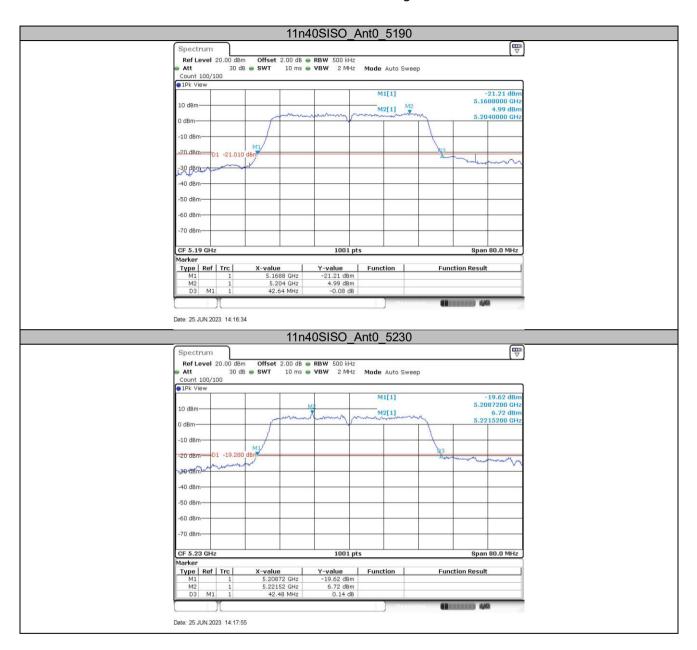


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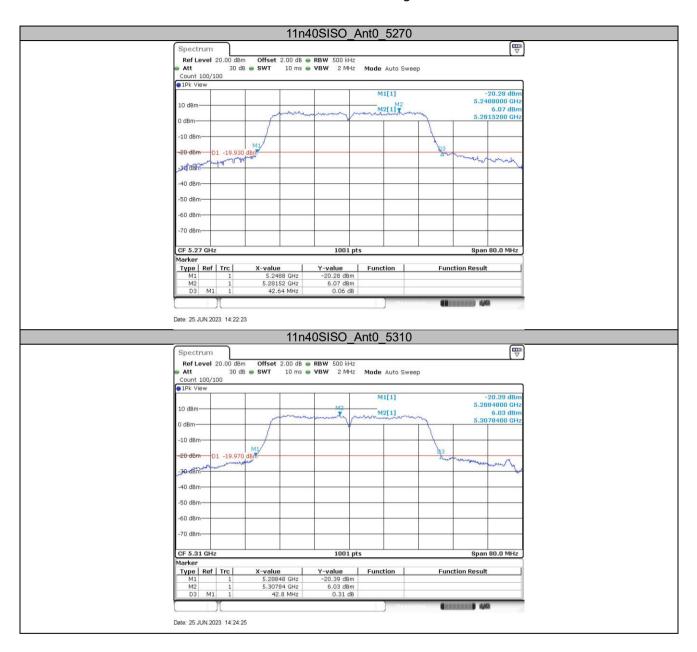


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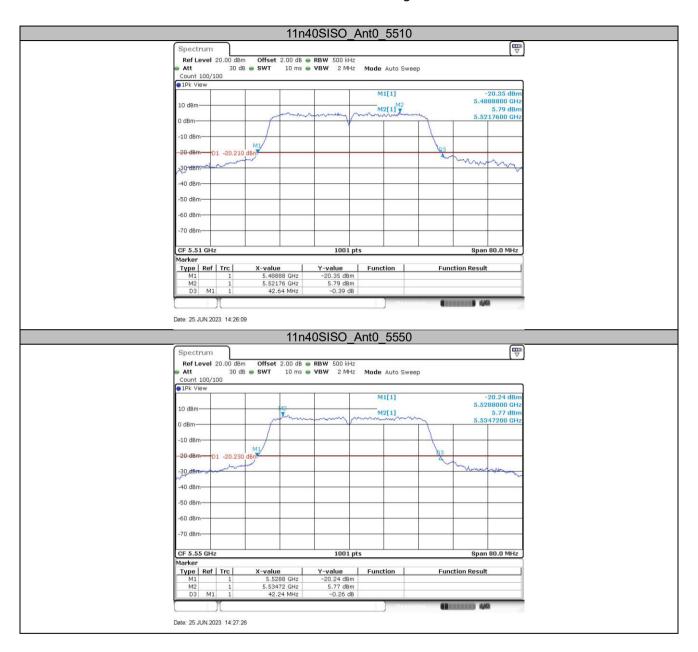


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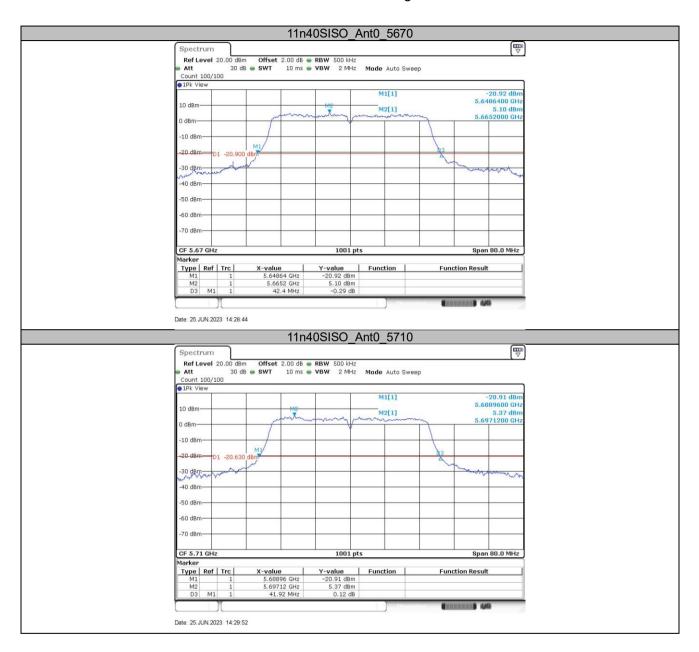
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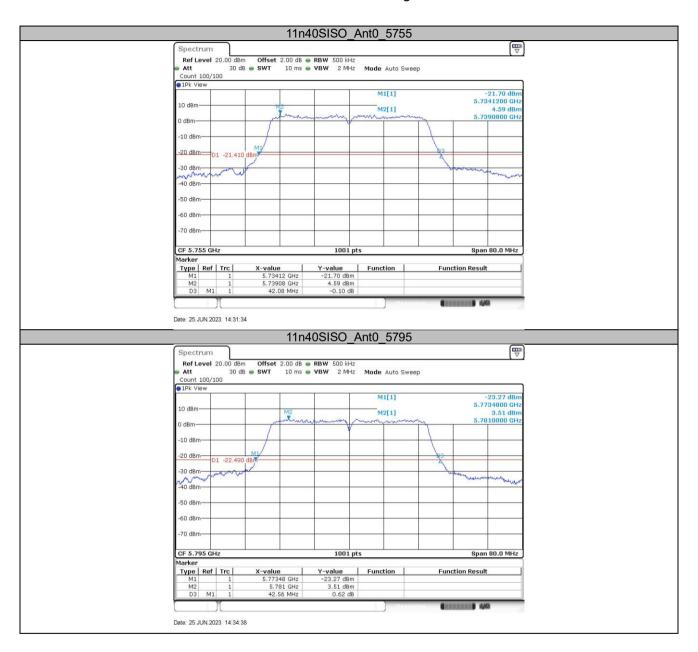


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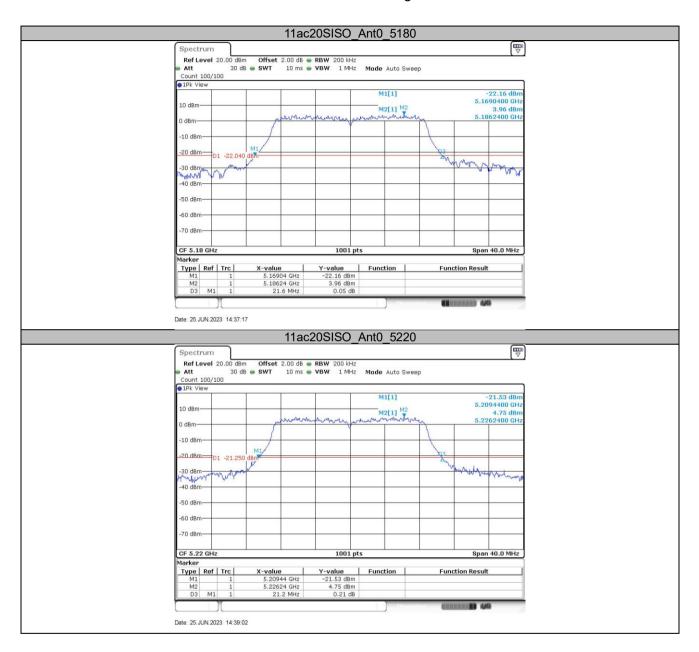
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