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 SEWM2311000466RG06

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## **TEST REPORT**

Test Result :	PASS *
Date of Issue:	2024/01/26
Date of Test:	2023/12/29 to 2024/01/22
Date of Receipt:	2023/11/17
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E
FCC ID:	2A28USN339D
Model No.:	SN339D
EUT Description:	Smart Phone
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Application No.:	SEWM2311000466RG

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

Authorized Signature:

veli

Well Wei Wireless Laboratory Manager



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## 1 Version

		<b>Revision Record</b>		
Version	Chapter	Date	Modifier	Remark
01		2024/01/26		Original

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



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

#### Tost Summary 2



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			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).		
Restricted bands around fundamental frequency	Band I Band II-A Band II-C Band III	15.407(b) 15.205/15.209	915.209 IIIIIt (AV&PK).	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: 5150-525 Band II-A: 5250-5 Band II-C: 5470-5 Band III: 5725-58	5350MHz 5725MHz				



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## **3** General Information

## 3.1 Details of Client

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL

## 3.2 Test Location

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

## 3.3 Test Facility

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

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

Innovation, Science and Economic Development Canada
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED

as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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	3.4 General Description of EOT			
EUT Description:	Smart Phone			
Model No.:	SN339D			
Hardware Version:	1.0			
Software Version:	SN339DD1	0010		
Power Supply:	5V			
IMEI:	RF Conduc	ted		356704760004991 356704760004901
	RSE & AC	oower line	35670	4760004769
	802.11a:	20 MHz chann	el band	width
WLAN Mode Supported:	802.11n:	20 MHz / 40 M	IHz char	nnel bandwidth
	802.11ac:	20 MHz / 40 M	IHz / 80	MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz 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(HT2	20)/ac(V	'HT20)
Channel Spacing:	40MHz:	802.11n(HT40)/ac(VHT40)		
	80MHz:	802.11ac(VHT	80)	
Antenna Type:	External	, 🛛 Integrated		
Antenna Gain:	5150MHz to 5250MHz: 0.79dBi(Ant5); 5250MHz to 5350MHz: 1.56dBi(Ant5); 5470MHz to 5725MHz: 2.12dBi(Ant5); 5725MHz to 5850MHz: 1.11dBi(Ant5); Note: The antenna gain are derived from the gain information report provided by the			
	manufactur	er.		
	SISO 🛛	802.11a/n/a	-	
			11a/n/ac: Tx & Rx	
Smart System:		STBC: 802.		
TXBF: 802.11n/ac: Tx & Rx			IX & KX	
TPC Function:		Diversity 802.11a: Tx & Rx		
	Support, Not Support			
DFS Function:			Slave without radar detection	
Slave with radar detection				

## 3.4 General Description of EUT



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RF Cable:

Remark:

2dB

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.

#### Remark:

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

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

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

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



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## 3.5 Test Environment and Mode

Environment Parameter	101 kPa Selected Values During Tests 44-46 % RH Ambient				
Relative Humidity					
Value	Temperature(℃)	Voltage(V)			
NTNV	22~23	3.8			
Remark: NV: Normal Voltage NT: Normal Temperature					

## 3.6 Description of Support Units

Test Equipment	Manufacturer	Model No.	Inventory No.	
Router	ASUS	GT-AXE11000 (FCC ID:MSQ-RTAXJF00)	SUWI-03-14-02	
Power Adapter* ShenZhen Baijunda Electronic Co.,Ltd		UT-681A-5200A1Y	N/A	
*Remark: The information o	f 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 Integrated Ar	The antenna is Integrated Antenna and no consideration of replacement.					
The best case gain of the an	tenna is					
5150MHz to 5250MHz: 0.790	dBi(Ant5);*					
5250MHz to 5350MHz: 1.560	dBi(Ant5);*					
5470MHz to 5725MHz: 2.120	dBi(Ant5);*					
5725MHz to 5850MHz: 1.110	5725MHz to 5850MHz: 1.11dBi(Ant5);*					
*Note:						
The antenna gain are derived from the gain information report provided by the manufacturer. Remark:						
As above information is prov reliability or/and integrity of th	ided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, he information.					



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Test Requirement:	47 CFR Part 15 Section 15.207			
Test Method:	ANSI C63.10: 2013 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, $VBW = 30kHz$			
Limit:		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:	<ol> <li>5-30 b0 50 50 50 50 50 50 50 50 50 50 50 50 50</li></ol>			

## 4.2 AC Power Line Conducted Emissions

SG



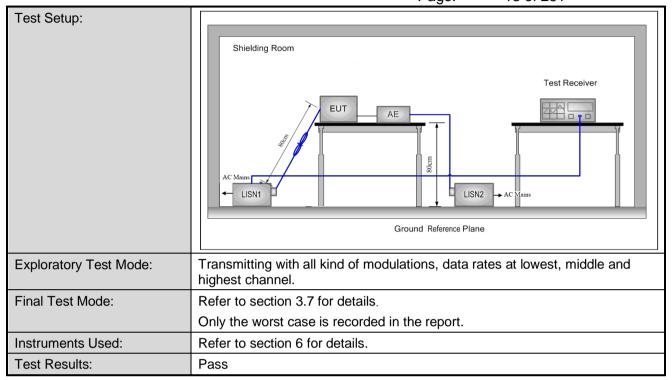
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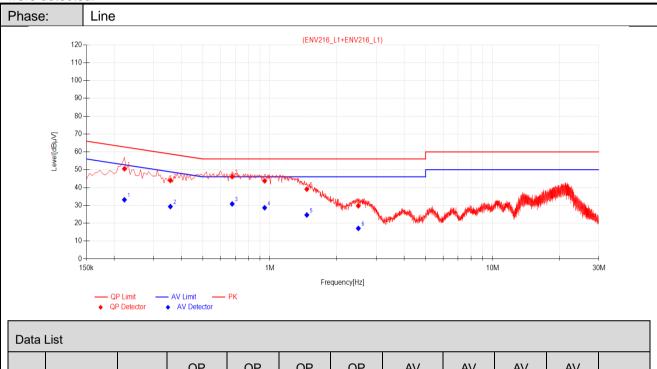
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#### Measurement Data

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.



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	0.2220	11.77	38.72	50.49	62.74	12.25	21.37	33.14	52.74	19.60	PASS
2	0.3570	11.54	32.41	43.95	58.80	14.85	17.78	29.32	48.80	19.48	PASS
3	0.6765	11.48	34.61	46.09	56.00	9.91	19.33	30.81	46.00	15.19	PASS
4	0.9465	11.48	32.25	43.73	56.00	12.27	17.18	28.66	46.00	17.34	PASS
5	1.4640	11.52	27.56	39.08	56.00	16.92	13.08	24.60	46.00	21.40	PASS
6	2.4945	11.55	18.19	29.74	56.00	26.26	5.55	17.10	46.00	28.90	PASS
Remai	rk.										

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]



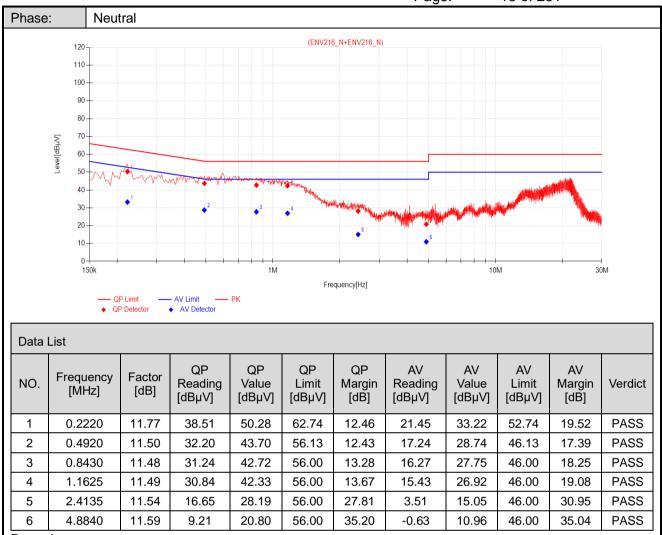
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Remark:

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

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

3. Margin = Limit[ $dB\mu V$ ] – Value[ $dB\mu V$ ]



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## 4.3 Duty Cycle

Test Requirement:	ANSI C63.10 :2013 Section 12.2			
Test Method:	ANSI C63.10 :2013 Section 12.2			
Test Setup:	PC       E.U.T         Image: Signal Generator       E.U.T         Image: Signal Generator       Image: Signal Generator         Image: Signal Generator			
Instruments Used:	Refer to section 6 for details			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Refer to section 3.7 for details.			
Limit:	No restriction limits			
Test Results:	For report purpose			
The detailed test data see: A	The detailed test data see: Appendix			



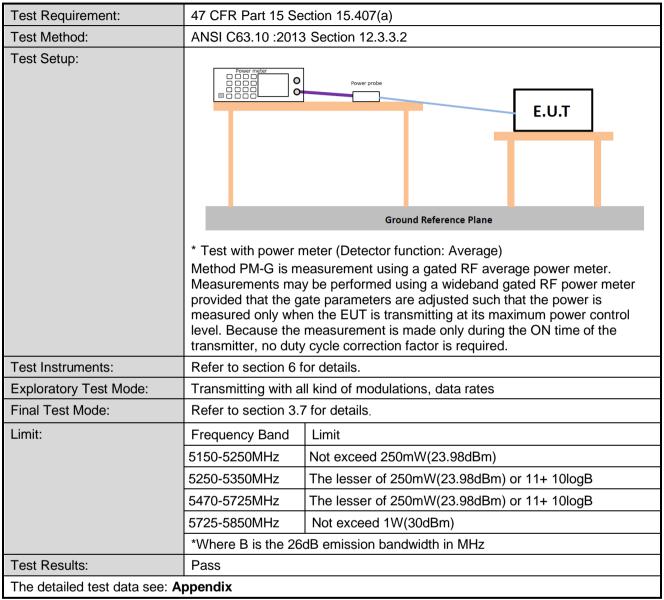
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### 4.4 Conducted Output Power



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#### **Test Requirement:** 47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C Test Method: ANSI C63.10: 2013 Section 12.4.1 Test Setup: SGS Test system 0 PC $\circ$ 0 E.U.T Analog Signal G 9 DC Powe 00000 Ground Reference Plane Instruments Used: Refer to section 6 for details. **Exploratory Test Mode:** Transmitting with all kind of modulations, data rates Final Test Mode: Refer to section 3.7 for details. Limit: No restriction limits **Test Results:** For Report Purpose The detailed test data see: Appendix

### 4.5 26dB Emission Bandwidth



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#### **Test Requirement:** 47 CFR Part 15 Section 15.407(e) **Test Method:** ANSI C63.10: 2013 Section 12.4.1 Test Setup: SGS Test system 0 PC $\circ$ Tester 0 E.U.T 9 DC Powe 00000 Ground Reference Plane **Test Instruments:** 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. Frequency Band Limit Limit: 5725-5850MHz At least 500kHz **Test Results:** Pass The detailed test data see: Appendix

### 4.6 6dB Emission Bandwidth



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#### **Test Requirement:** KDB 789033 D02§ D Test Method: ANSI C63.10: 2013 Section 12.4.2 Test Setup: SGS Test system 0 PC Oŏ G Unit 0 0 0 E.U.T Analog Signal Ge DC Powe ļ **Ground Reference Plane** Instruments Used: Refer to section 6 for details. Transmitting with all kind of modulations, data rates Exploratory Test Mode: Final Test Mode: Refer to section 3.7 for details. Limit: No restriction limits **Test Results:** For Report Purpose The detailed test data see: Appendix

### 4.7 99% Occupied Bandwidth



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Test Requirement:	47 CFR Part 15 Section 15.407(a)			
Test Method:	ANSI C63.10: 2013 Section 12.5			
	KDB 789033 D02 v02r01, Section F.			
Test Setup:	PC         Image: Signal Generator         Image:			
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	The detailed test data see: Appendix			

## 4.8 Power Spectral Density



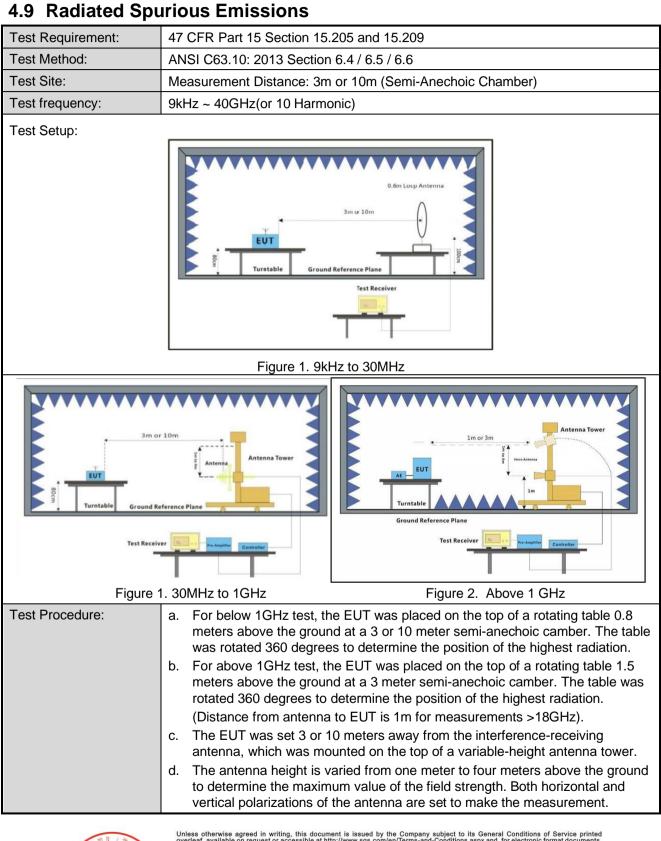
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	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	<ul> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> </ul>
	g. Test the EUT in the outermost channels.
	<ul> <li>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> </ul>
	i. Repeat above procedures until all frequencies measured was complete.
	j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
	k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
	I. At a measurement distance of 1 meter the limit line was increased by $20*LOG(3/1) = 9.54 \text{ dB}.$
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 $\geq$ 1
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
That Tost Would.	For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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The detailed test data see: Appendix		

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## 4.10Restricted bands around fundamental frequency

Test Requirement:47 CFR Part 15 Section 15.407(b)			
Test Method:	ANSI C63.10: 2013 Section		
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
			Peak Value

#### Test Setup:

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	Antenna Tower Im or 3m Ju Ju Ju Ju Ju Ju Ju Ju Ju Ju	
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> </ul>	
	<ul> <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> <li>g. Test the EUT in the outermost channels.</li> </ul>	
	h. The radiation measurements are performed in X, Y, Z axis positioning for	



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	Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW $\geq$ 1 MHz • VBW = 1 0Hz, 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
Exploratory Test Mode:	maximum power control level for the tested mode of operation. Transmitting with all kind of modulations, data rates.
. ,	
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	e: Appendix



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## 4.11 Dynamic Frequency Selection

### 4.11.1 DFS Overview

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

Requirement	Operatio	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	
Additional requirements for devices with	Master Device or Client with	<b>Client Without Radar</b>	
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 perfe	ormance check (Section 7.8.4) sho	uld include several	
frequencies within the radar detection bandwidth and frequencies near the edge of the radar			
detection bandwidth. For 802.11 devi	ces it is suggested to select frequen	ncies in each of the	
bonded 20 MHz channels and the char	nnel center frequency.		



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#### 4.11.2 DFS Detection Thresholds

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 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	
<b>Note 1:</b> 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	en added to the amplitude of the
test transmission waveforms to account for variations in measureme	nt equipment. This will ensure that
the test signal is at or above the detection threshold level to trigger a	a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devi	ces refer to KDB Publication
662911 D01.	



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#### 4.11.3 RADAR TEST WAVEFORMS

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#### Table 5 – Short Pulse Radar Test Waveforms

Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum
Туре	(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	$\operatorname{Roundup} \left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix} \cdot \\ \begin{pmatrix} \frac{19 \cdot 10^{6}}{\operatorname{PRI}_{\mu \operatorname{sec}}} \end{pmatrix} \right\}$	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 (I	Radar Types 1-	4)		80%	120
	ort Pulse Rada hannel closing		sed for the detection ba	ndwidth test, ch	annel move



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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
Туре	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 6 – Long Pulse Radar Test Waveform

Table 7 – Frequency Hopping Radar Test Waveform	Table 7 –	Frequency	Hopping	Radar Test	Waveform
---	-----------	-----------	---------	------------	----------

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

#### 4.11.4 Response Requirements

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

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

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

The detailed test data see: Appendix



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

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

Remark:

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The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispt/ETSI</sub> (CISPR/ETSI Uncertainty), so the test results

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

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



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## 6 Equipment List

RF Test Equipment							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05		
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2023/05/11	2024/05/10		
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR		
Measurement Software	TST	TST-272 V2.0	SUWI-03-55-03	NCR	NCR		
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10		
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2023/11/21	2024/11/20		
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2023/11/21	2024/11/20		
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05		
Signal Generator	ROHDE &SCHWARZ	SMM100A	SUWI-01-07-04	2023/02/16	2024/02/15		
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2023/11/21	2024/11/20		

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



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RSE Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Semi- Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2023/02/07	2024/02/06	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10	
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2023/11/21	2024/11/20	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07	
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2023/11/25	2024/11/24	
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2023/11/25	2024/11/24	
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11	
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12	
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2023/11/21	2024/11/20	
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2023/11/21	2024/11/20	
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2023/11/21	2024/11/20	
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR	

Remark: NCR=No Calibration Requirement.



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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	Ant5	5180	23.24	5169.20	5192.44	
11a	Ant5	5220	21.72	5208.48	5230.20	
11a	Ant5	5240	22.84	5229.84	5252.68	
11a	Ant5	5260	20.80	5250.00	5270.80	
11a	Ant5	5300	20.24	5289.96	5310.20	
11a	Ant5	5320	21.44	5309.76	5331.20	
11a	Ant5	5500	23.96	5489.44	5513.40	
11a	Ant5	5580	21.80	5569.52	5591.32	
11a	Ant5	5700	20.16	5689.84	5710.00	
11a	Ant5	5745	21.08	5734.40	5755.48	
11a	Ant5	5785	23.80	5772.80	5796.60	
11a	Ant5	5825	26.56	5811.60	5838.16	
11n20SISO	Ant5	5180	24.84	5167.40	5192.24	
11n20SISO	Ant5	5220	24.60	5207.52	5232.12	
11n20SISO	Ant5	5240	24.12	5227.16	5251.28	
11n20SISO	Ant5	5260	24.20	5247.44	5271.64	
11n20SISO	Ant5	5300	24.36	5287.32	5311.68	
11n20SISO	Ant5	5320	23.88	5307.24	5331.12	Бал
11n20SISO	Ant5	5500	21.60	5488.48	5510.08	For Report
11n20SISO	Ant5	5580	23.28	5568.16	5591.44	Purpose
11n20SISO	Ant5	5700	24.32	5687.04	5711.36	Fuipose
11n20SISO	Ant5	5745	26.40	5731.24	5757.64	
11n20SISO	Ant5	5785	26.88	5771.20	5798.08	
11n20SISO	Ant5	5825	29.84	5810.24	5840.08	
11n40SISO	Ant5	5190	41.44	5168.96	5210.40	
11n40SISO	Ant5	5230	41.28	5209.28	5250.56	
11n40SISO	Ant5	5270	40.40	5249.76	5290.16	
11n40SISO	Ant5	5310	40.64	5289.44	5330.08	
11n40SISO	Ant5	5510	41.36	5489.04	5530.40	
11n40SISO	Ant5	5550	41.76	5529.52	5571.28	
11n40SISO	Ant5	5670	49.52	5640.88	5690.40	
11n40SISO	Ant5	5755	40.56	5734.52	5775.08	
11n40SISO	Ant5	5795	49.36	5765.80	5815.16	] [
11ac80SISO	Ant5	5210	81.28	5169.52	5250.80	]
11ac80SISO	Ant5	5290	81.12	5249.52	5330.64	
11ac80SISO	Ant5	5530	81.44	5489.36	5570.80	]
11ac80SISO	Ant5	5610	81.12	5569.36	5650.48	
11ac80SISO	Ant5	5775	97.28	5718.68	5815.96	

#### Remark:

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



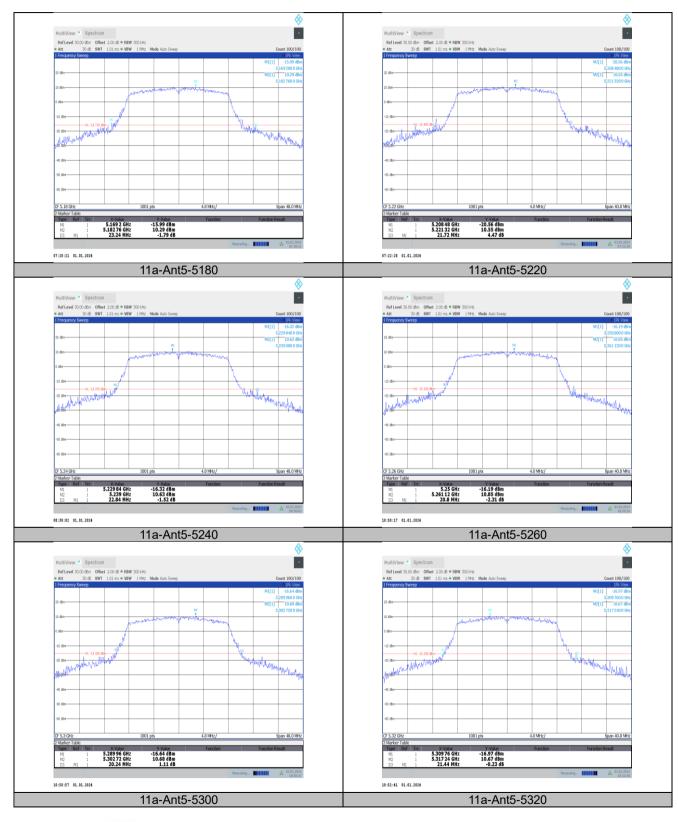
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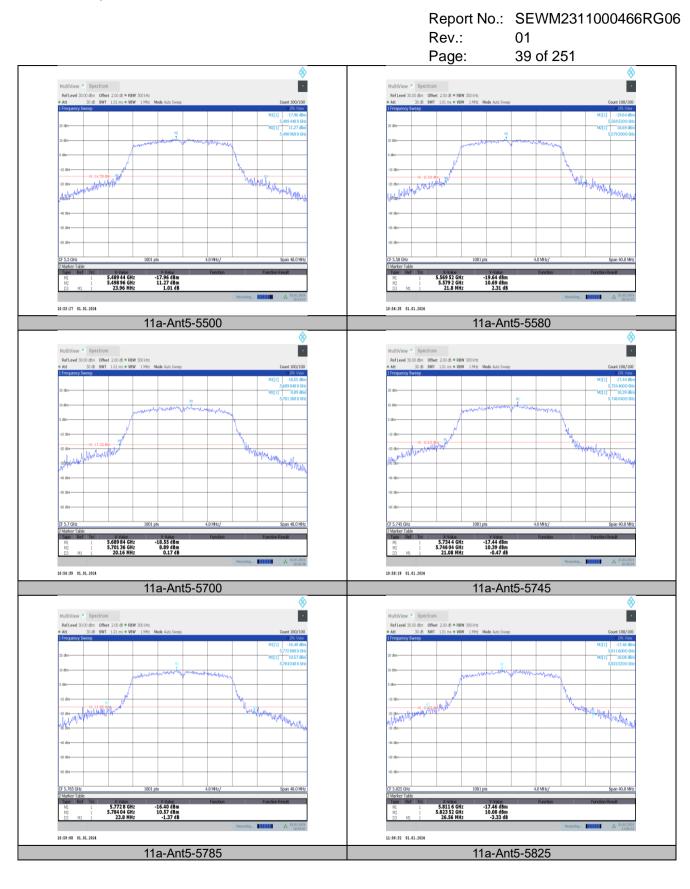




**Test Graphs** 

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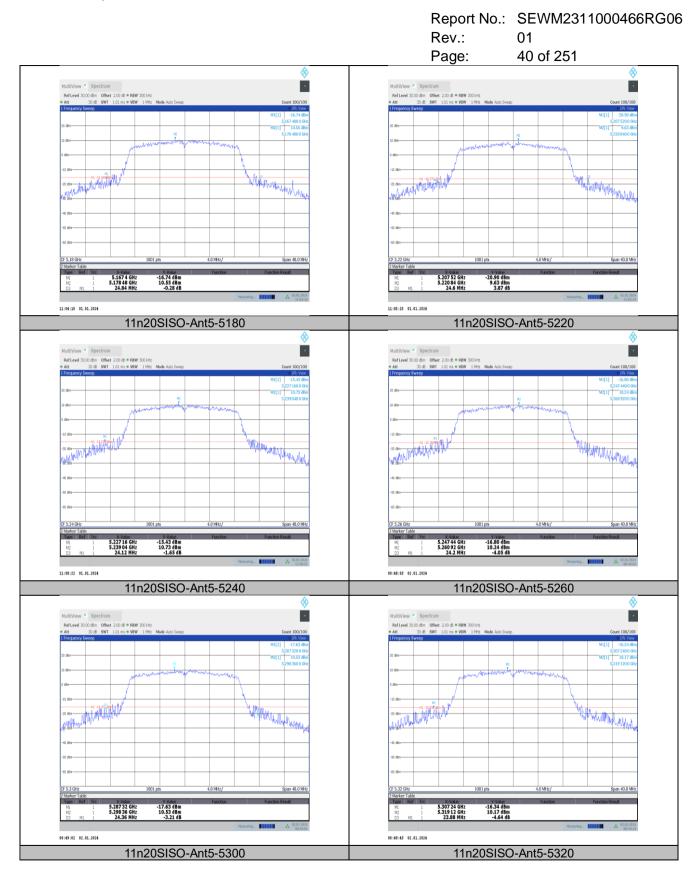
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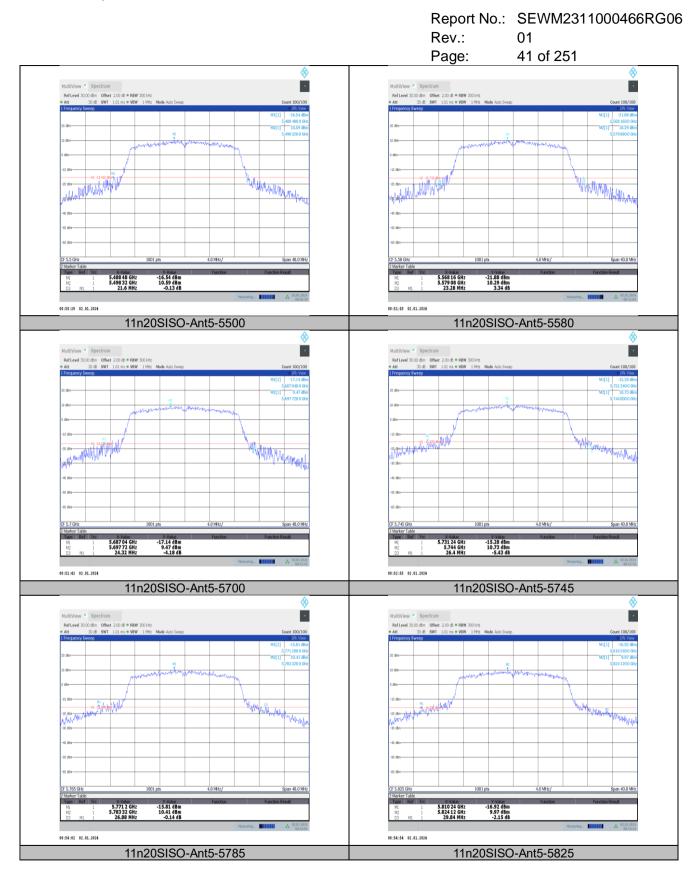
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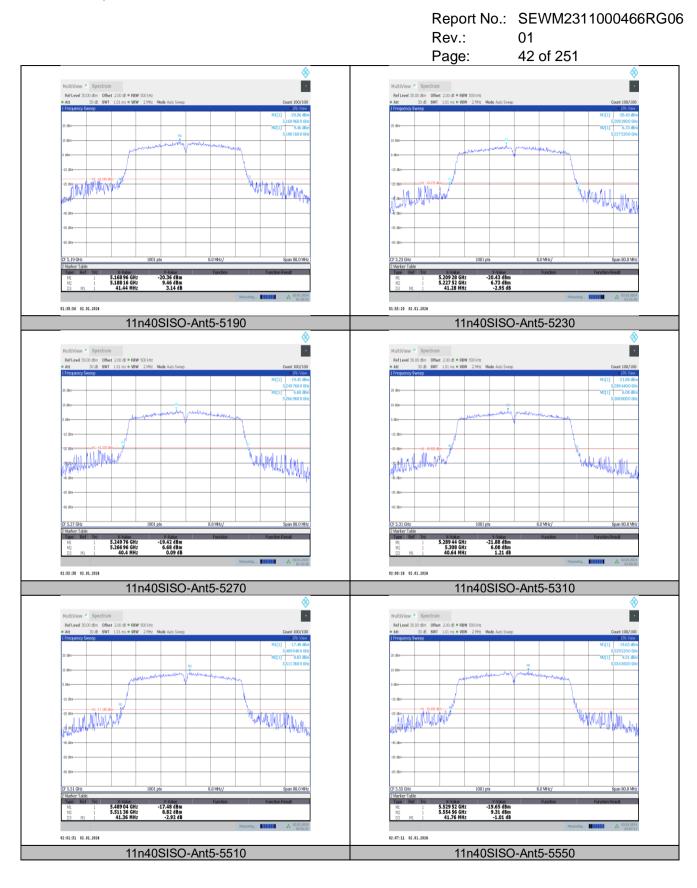
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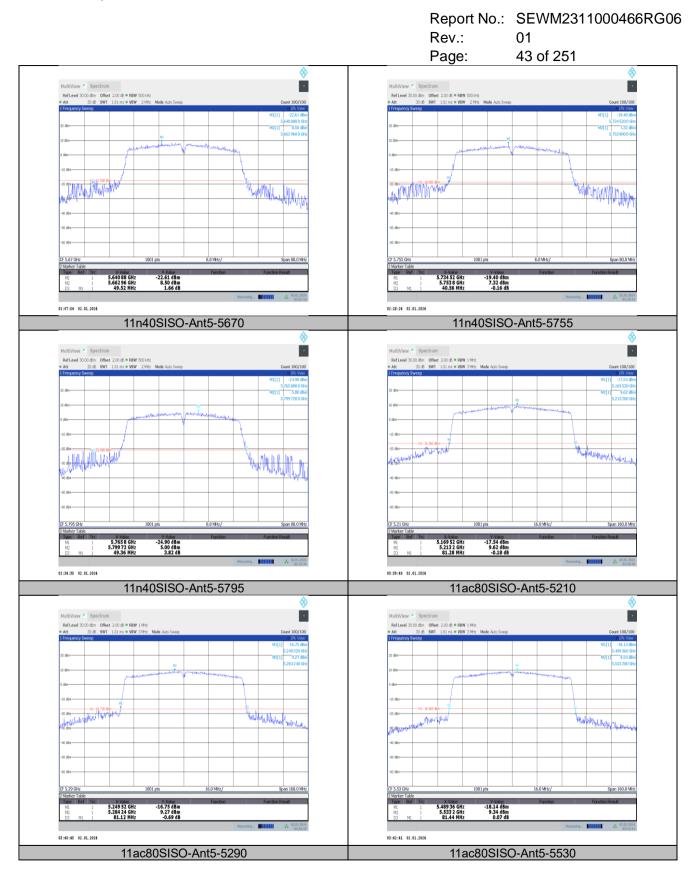
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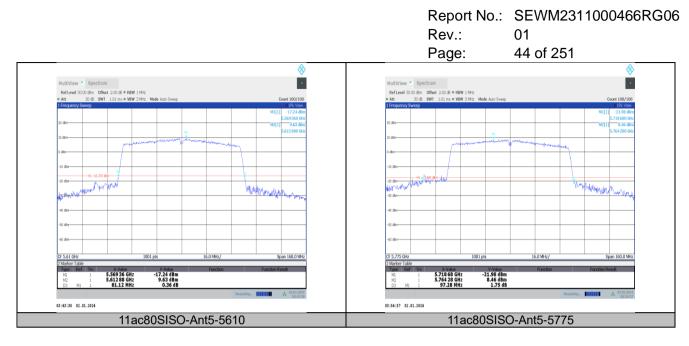
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#### Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a	Ant5	5180	17.057	5171.4432	5188.5004	
11a	Ant5	5220	17.098	5211.4426	5228.5407	
11a	Ant5	5240	17.185	5231.3514	5248.5364	
11a	Ant5	5260	17.192	5251.3799	5268.5721	
11a	Ant5	5300	17.093	5291.4463	5308.5394	
11a	Ant5	5320	17.087	5311.4278	5328.5151	
11a	Ant5	5500	17.13	5491.4317	5508.5618	
11a	Ant5	5580	17.097	5571.4387	5588.5358	
11a	Ant5	5700	17.024	5691.3842	5708.4085	
11a	Ant5	5745	17.239	5736.2719	5753.5112	
11a	Ant5	5785	17.2	5776.3495	5793.5498	
11a	Ant5	5825	17.279	5816.2958	5833.5745	
11n20SISO	Ant5	5180	18.089	5170.9465	5189.0352	
11n20SISO	Ant5	5220	18.101	5210.8977	5228.9983	
11n20SISO	Ant5	5240	18.024	5230.9569	5248.9804	
11n20SISO	Ant5	5260	18.06	5250.9405	5269.0005	
11n20SISO	Ant5	5300	18.01	5290.9624	5308.9728	
11n20SISO	Ant5	5320	18.001	5310.9514	5328.9525	<b>F</b>
11n20SISO	Ant5	5500	17.965	5490.9998	5508.9648	For
11n20SISO	Ant5	5580	18.03	5570.9764	5589.0068	Report
11n20SISO	Ant5	5700	18.079	5690.8847	5708.9633	Purpose
11n20SISO	Ant5	5745	18.155	5735.7978	5753.9527	
11n20SISO	Ant5	5785	18.267	5775.7967	5794.0637	
11n20SISO	Ant5	5825	18.281	5815.8161	5834.0975	
11n40SISO	Ant5	5190	37.088	5171.4842	5208.5721	
11n40SISO	Ant5	5230	36.749	5211.6505	5248.3991	
11n40SISO	Ant5	5270	36.865	5251.4858	5288.3512	
11n40SISO	Ant5	5310	36.726	5291.6409	5328.3666	
11n40SISO	Ant5	5510	36.575	5491.7429	5528.3175	
11n40SISO	Ant5	5550	36.657	5531.6440	5568.3007	
11n40SISO	Ant5	5670	36.663	5651.4917	5688.1544	
11n40SISO	Ant5	5755	37.112	5736.2762	5773.3882	
11n40SISO	Ant5	5795	36.747	5776.5705	5813.3176	
11ac80SISO	Ant5	5210	75.341	5172.4047	5247.7456	
11ac80SISO	Ant5	5290	75.455	5252.2485	5327.7030	
11ac80SISO	Ant5	5530	75.351	5492.2889	5567.6397	
11ac80SISO	Ant5	5610	75.406	5572.2055	5647.6114	
11ac80SISO	Ant5	5775	75.718	5736.8361	5812.5541	

#### Remark:

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



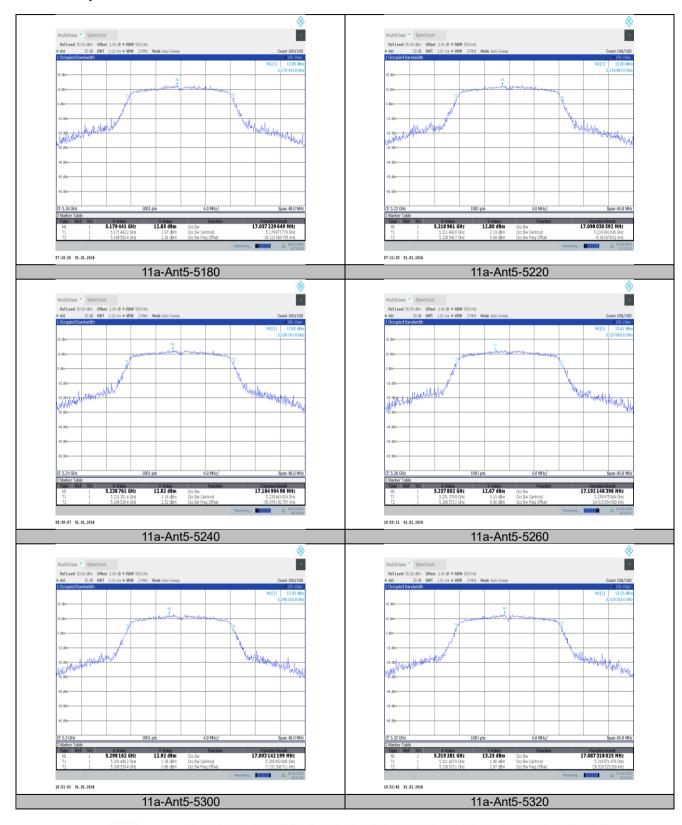
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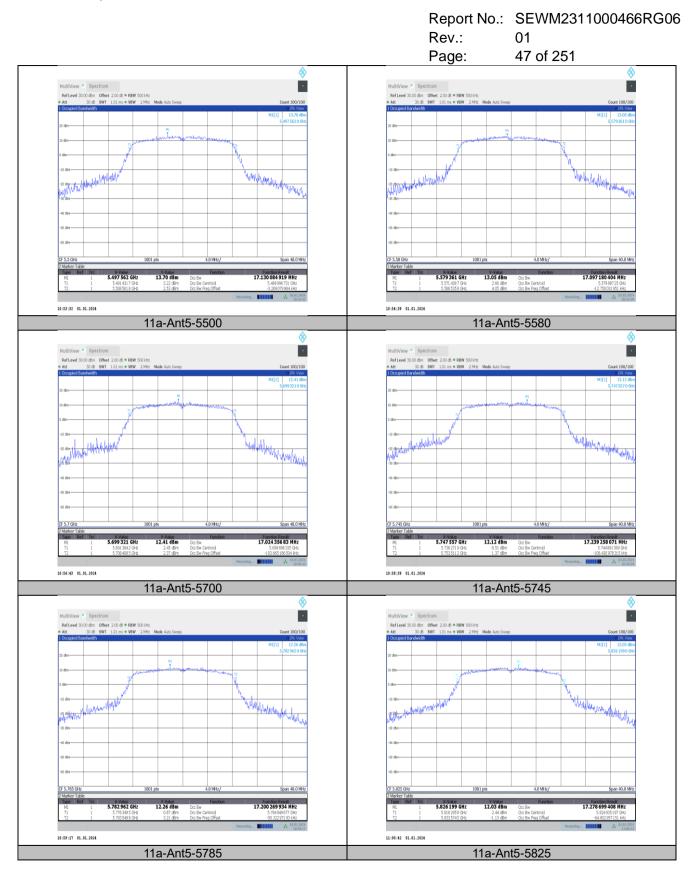




**Test Graphs** 

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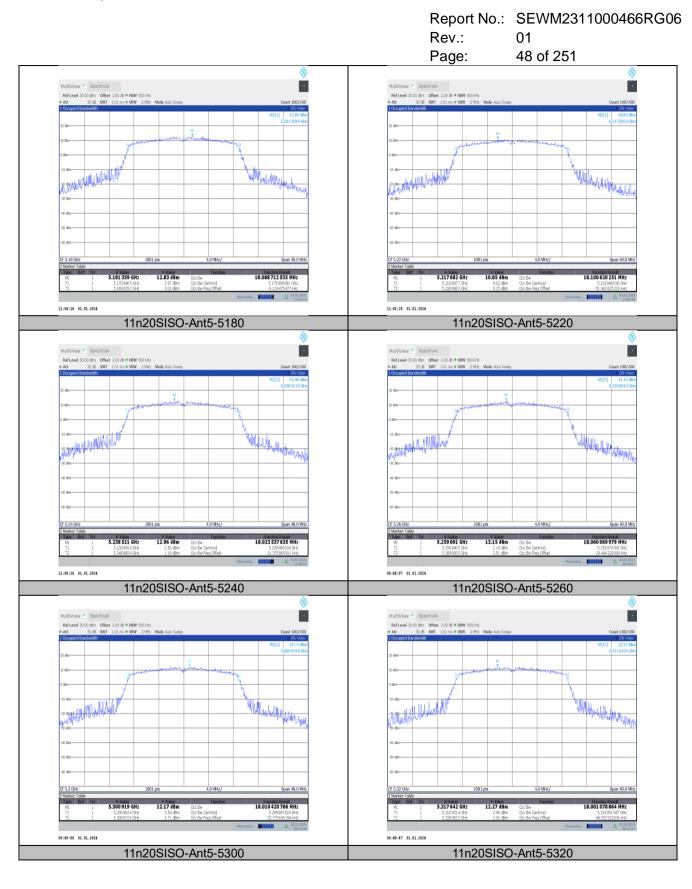
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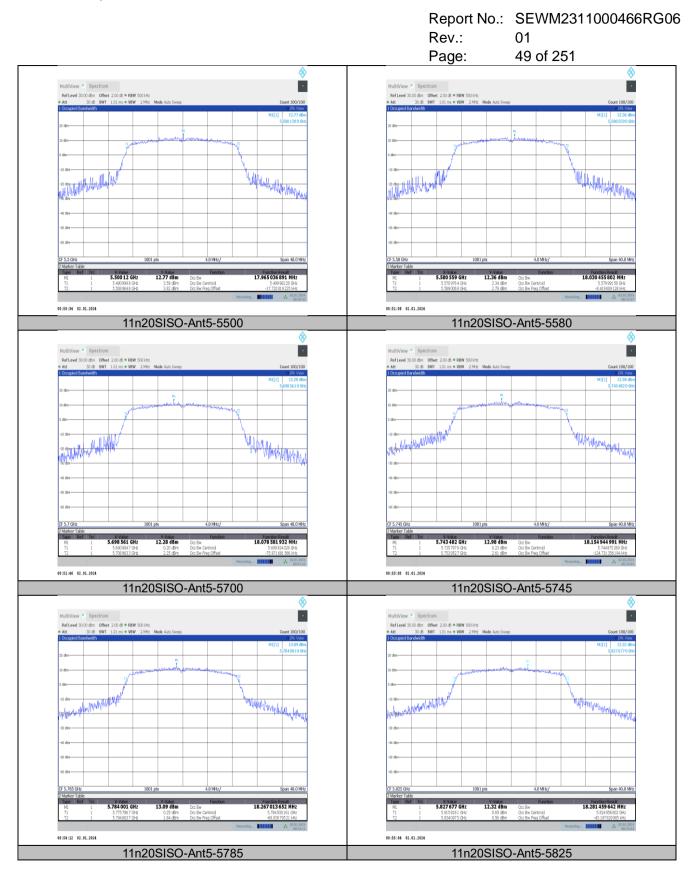
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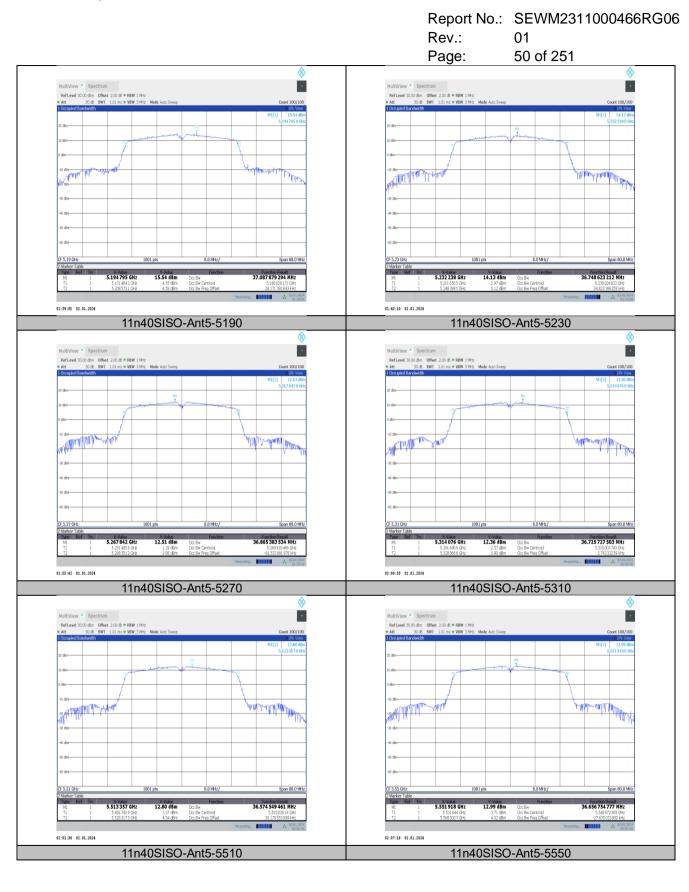


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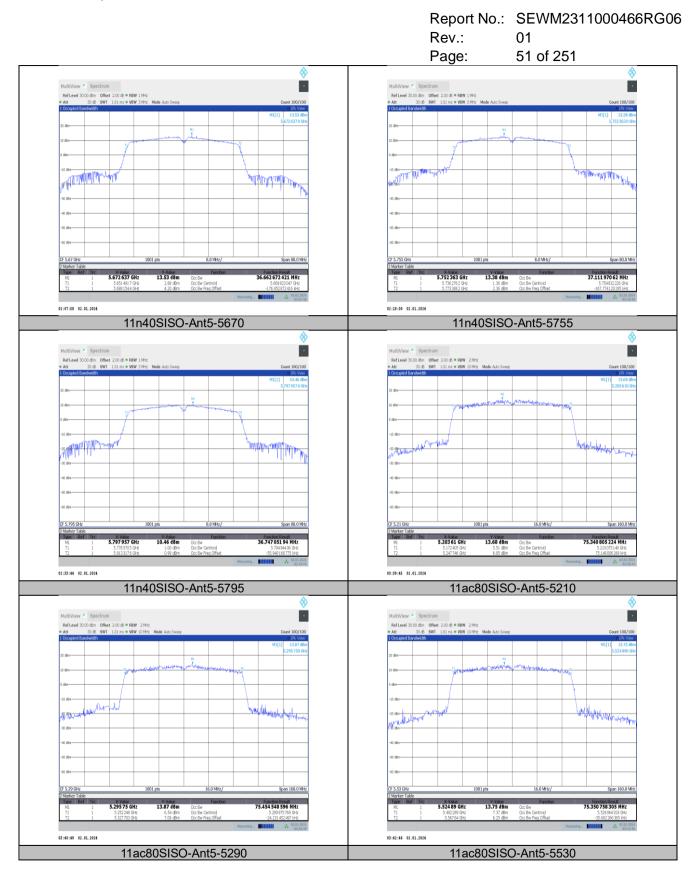
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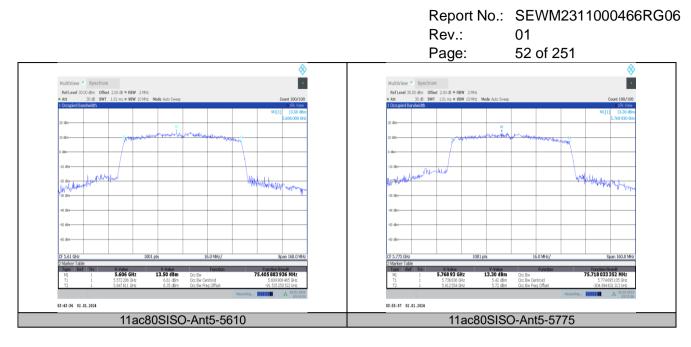
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#### 6dB emission bandwidth Test Result B4

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant5	5745	15.12	5737.16	5752.28	≥0.5	PASS
11a	Ant5	5785	14.56	5777.36	5791.92	≥0.5	PASS
11a	Ant5	5825	15.20	5817.36	5832.56	≥0.5	PASS
11n20SISO	Ant5	5745	15.12	5737.44	5752.56	≥0.5	PASS
11n20SISO	Ant5	5785	15.16	5777.40	5792.56	≥0.5	PASS
11n20SISO	Ant5	5825	17.00	5816.40	5833.40	≥0.5	PASS
11n40SISO	Ant5	5755	35.28	5737.32	5772.60	≥0.5	PASS
11n40SISO	Ant5	5795	34.08	5778.52	5812.60	≥0.5	PASS
11ac80SISO	Ant5	5775	75.52	5737.24	5812.76	≥0.5	PASS

Remark:

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



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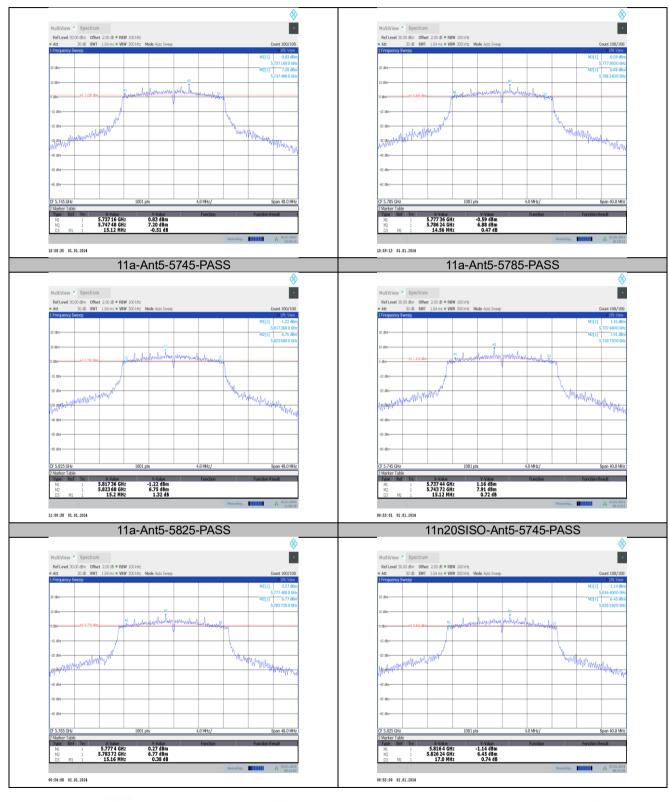
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#### **Test Graphs B4**



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