Report No.:
 SEWM2212000312RG05

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 01

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TEST REPORT

Application No.:	SEWM2212000312RG
Applicant:	Sony Corporation
Address of Applicant:	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Manufacturer:	Sony Corporation
Address of Manufacturer:	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
EUT Description:	GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, NFC and GNSS
Trade Mark:	Sony
FCC ID:	PY7-18176E
Standards:	FCC 47 CFR Part 2, Subpart J
	FCC 47 CFR Part 15, Subpart E
Date of Receipt:	2022/11/30
Date of Test:	2022/12/26 to 2023/03/09 (for original report SEWM2212000308RG05)
Date of Test.	2022/12/26 to 2023/03/09 (for new report SEWM2212000312RG05)
Date of Issue:	2023/03/16
Test Result :	PASS *

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

Authorized Signature:

Sun

Panta Sun Wireless Laboratory Manager



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1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2023/03/16		Original	

Prepared By	(Ives Cheng) / Test Engineer
Checked By	(Well Wei) / Reviewer



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sgs.china@sgs.com

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2 1631	2 Test Summary						
Test Item	Band ^[1]	Band ^[1] FCC rules No. Test Requirements		Test Result	Result		
Antenna Requirement		15.203/15.407(a)		Clause 4.1	PASS		
26dB	Band I	15.407(a)(1)		Clause	Reporting		
Emission	Band II-A	15.407(a)(2)	No limit.	4.5	only		
Bandwidth	Band II-C	15.407(a)(2)		4.5	Only		
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.		PASS		
99%	Band I						
Occupied	Band II-A	KDB 789033	No limit.	Clause	Reporting		
Bandwidth	Band II-C	D02§ D	NO IIIII.	4.7	only		
Danuwidth	Band III						
	Band I						
Duty Cycle	Band II-A		No limit.	Clause	Reporting		
Duty Cycle	Band II-C		NO mmt.	4.3	only		
	Band III						
Maximum	Band I	15.407(a)(iv)	< 250mW				
Conducted	Band II-A	15.407(a)(2)	<min{250mw,11dbm+10*lg(ebw)}< td=""><td>Clause</td><td>PASS*</td></min{250mw,11dbm+10*lg(ebw)}<>	Clause	PASS*		
Output	Danu II-C			4.4	17,00		
Power	Band III	15.407(a)(3)	< 1W				
Maximum	Band I	15.407(a)(iv)	<11dBm/MHz				
Power	Band II-A 15.407	15.407(a)(2)	<11dBm/MHz	Clause 4.8	PASS		
Spectral	Band II-C						
Density	Band III	15.407(a)(3)	<30dBm/500KHz				
	Band I	15.209 15.407(b)	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15- 5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS*		
Unwanted Emissions that fall Out of the Restricted Bands	Band II-A	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25- 5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	Clause 4.9	PASS*		
(Radiated)	Band II-C	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47- 5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS*		
	Band III	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP)		PASS*		

2 Test Summary



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voorning market market market market junzen stattan in and voor and vo

Report No.:SEWM2212000312RG05Rev.:01Page:4 of 308at frequencies from
decreasing linearly

			 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		
Band II-A: 525 Band II-C: 547 Band III: 5725- Remark: "PAS	users manual						



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Remark:

This test report (Report No.: SEWM2212000312RG05 issue on 2023/03/16) is based on the original test report (Report No.: SEWM2212000308RG05 issue on 2023/03/09).

Introduction section:

Sony corporation, hereby declares that the test data reuse policy of FCC KDB 484596D01 v01 has been followed and take full responsibility that the test data as referenced form the parent model report FCC ID PY7-51629L represents compliance for the new FCC ID PY7-18176E.

Difference section:

Sony corporation, hereby declares FCC ID PY7-18176E(this model) is the variant from FCC ID PY7-51629L(parent model). They have the same dimension and share the same PCB layout, antennas and components in WLAN and Bluetooth, Though both devices use different names for the NFC chipset, this difference lies in the payment manager application software installed on the secure microcomputer, and there is also no difference in electrical and RF performance for NFC.

Reference detail section:

Therefore in this report Dynamic Frequency Selection were fully tested, the items of Power and Transmitter emission Above 1GHz, Restricted bands around fundamental frequency were performed based on the worst case of the original report with report number SEWM2212000308RG05 issue on 2023/03/09 and other test data in this report are based on the previous report with report number SEWM2212000308RG05 issue on 2023/03/09.

Rule part	Equipment class	Reference FCC ID	Type Grant /permissive Change	Reference Report	Variant model FCC ID	Variant model Report
15E	NII	PY7-51629L	Original Grant	SEWM2212000 308RG05	PY7-18176E	SEWM2212000 312RG05



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Summary of the Spot check:

Conducted power test and radiated spurious emission test against the variant model based on the worstcase condition from the original model was performed in this filing and the verification test results similar to the original FCC ID. All tests meet FCC technical limits. Detail sport check test result can be found in the variant model report.

Test Item	PY7-18176E Worst Result	PY7-51629L Worst Result	Difference(dB)
Conducted Peak Output Power	9.82	9.94	-0.12
Dynamic Frequency Selection	-11/6 -11/6		-1.5
Radiated Spurious emissions	Peak: 44.29 Average: 34.13	Peak: 46.35 Average: 37.15	Peak: -2.06 Average: -3.02
Restricted bands around fundamental frequency (Radiated Emission)	Peak: 53.59 Average: 42.68	Peak: 53.73 Average: 42.62	Peak: -0.14 Average: 0.06



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3 General Information

3.1 Details of Client

Applicant:	Sony Corporation		
Address of Applicant:	-7-1 Konan Minato-ku Tokyo, 108-0075 Japan		
Manufacturer:	Sony Corporation		
Address of Manufacturer:	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan		

3.2 Test Location

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

3.3 Test Facility

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

A2LA (Certificate No. 6336.01)
SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.
Innovation, Science and Economic Development Canada
SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.
CAB identifier: CN0120.
IC#: 27594.
FCC – Designation Number: CN1312
SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.
Designation Number: CN1312.
Test Firm Registration Number: 717327



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3.4 General Description of EUT

SG

SN: RF RS RS WLAN Mode Supported: 802 802 802 802 802 802 802 90 802 90 802 91 524 54 542 <th>ony 287</th> <th></th> <th></th> <th></th>	ony 287					
Software Version: 0.2 SN: RF RS RS WLAN Mode Supported: 802 WLAN Mode Supported: 802 SOperation Frequency: 514 SA 514 <	287					
SN: RF RS RS WLAN Mode Supported: 802 802 802 802 802 802 802 802 802 90 802 91 524 544 524 545 544 546 545 547 544 548 544 544	287					
SN: RS WLAN Mode Supported: 802 WLAN Mode Supported: 802 Operation Frequency: 513 544 574 544 574 544 574 544 574 544 574 544 574 544 574 544 574 544 574 544 574 544 574 544 574 544 574 544 574 544 574 544 574 544 574 545 574 546 574 547 574 547 574 547 574 547 574 547 574 547 574 547 574 547 574 547 574 547 574 548 574 544 574						
WLAN Mode Supported: 802 WLAN Mode Supported: 802 000 802 000 802 000 802 54 54	- Conducte	ed	HQ62B20407 HQ62BB013D			
WLAN Mode Supported: 802 802 802 000000000000000000000000000000000000	SE & AC p	ower line	HQ62B2 HQ62B2			
802Solution Frequency:511522542543572802802802802802802802802802802803804804805 <t< td=""><td>2.11a:</td><td>20 MHz chai</td><td>nnel band</td><td>width</td></t<>	2.11a:	20 MHz chai	nnel band	width		
Operation Frequency: 51 52 54 54 57 Modulation Type: 80 80 80 20 20	2.11n:	20 MHz / 40 MHz channel bandwidth				
Operation Frequency:52545780Modulation Type:80808020	2.11ac:	20 MHz / 40	MHz / 80	MHz channel bandwidth		
Modulation Type: 802 802 201	50MHz to	5250MHz 5350MHz 5725MHz 5850MHz				
802 201	2.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)				
20	2.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)				
	2.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)				
Channel Spacing: 40	MHz:	802.11a/n(HT20)/ac(VHT20)				
	MHz:	802.11n(HT40)/ac(VHT40)				
80	MHz:	802.11ac(VH	HT80)			
Antenna Type: PIF	FA Antenn	na				
Antenna Gain: 524	50MHz to 70MHz to	o 5250MHz: 0.3dBi(Ant6) o 5350MHz: 1.1dBi(Ant6) o 5725MHz: 2.0dBi(Ant6) o 5850MHz: 2.5dBi(Ant6)				
	SISO	802.11a/n	/ac			
		CDD: 802	.11a/n/ac:	Tx & Rx		
Smart System:	MIMO	STBC: 802	2.11n/ac:	Tx & Rx		
		TXBF: 802	2.11n/ac:	Tx & Rx		
	Diversity	802.11a:	Tx & Rx			
	Support, [Not Suppo	ort			
DFS Function:	Master					
	Slave with	radar detec	tion	Slave without radar detection		
RF Cable: 2.0	DdB					
Remark: As above information is provid						



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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:	For UNII Band II-C:								
Mode	Channel	Frequency(MHz)							
	The Lowest channel	5500							
IEEE 802.11a/n/ac 20MHz	The Middle channel	5580							
	The Highest channel	5700							
	The Lowest channel	5510							
IEEE 802.11n/ac 40MHz	The Middle channel	5550							
	The Highest channel	5670							
IEEE 802.11ac 80MHz	The Lowest channel	5530							
	The Highest channel	5610							

For UNII Band III:								
Mode	Channel	Frequency(MHz)						
	The Lowest channel	5745						
IEEE 802.11a/n/ac 20MHz	The Middle channel	5785						
	The Highest channel	5825						
	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 ^[1]	5720	142 ^[2]	5710
	138 ^[3]	5690		

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 44-46 % RH Ambient				
Relative Humidity					
Value	Temperature(°C)	Voltage(V)			
NTNV	22~23	3.89			
Remark: NV: Normal Voltage NT: Normal Temperature					

3.6 Description of Support Units

Description	Manufacturer	Model No.
Deuter	46110	GT-AXE11000
Router	ASUS	(FCC ID MSQ-RTAXJF00)

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 PIFA Antenna and no consideration of replacement.						
The best case gain of the antenna is						
5150MHz to 5250MHz: 0.3dBi(Ant6)						
5250MHz to 5350MHz: 1.1dBi(Ant6)						
5470MHz to 5725MHz: 2.0dBi(Ant6)						
5725MHz to 5850MHz: 2.5df	Bi(Ant6)					



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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 RBW = 9kHz, VBW = 30kHz**Receiver Setup:** Limit: Limit (dBuV) Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50 * Decreases with the logarithm of the frequency. Test Procedure: 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu$ H + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.

4.2 AC Power Line Conducted Emissions



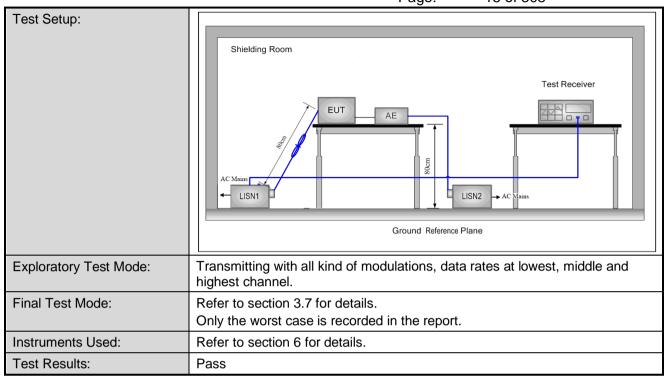
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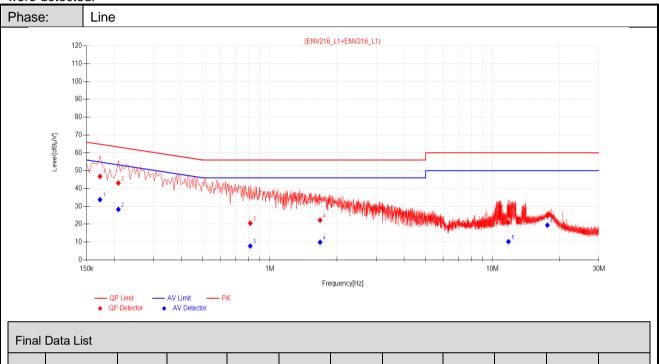
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Measurement Data

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.



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
0.1725	10.73	36.06	46.79	64.84	18.05	23.04	33.77	54.84	21.07	PASS
0.2085	10.82	32.25	43.07	63.26	20.19	17.49	28.31	53.26	24.95	PASS
0.8160	10.52	10.02	20.54	56.00	35.46	-2.76	7.76	46.00	38.24	PASS
1.6800	10.75	11.50	22.25	56.00	33.75	-0.87	9.88	46.00	36.12	PASS
11.7780	10.58	10.36	20.94	60.00	39.06	-0.35	10.23	50.00	39.77	PASS
17.6235	10.47	14.32	24.79	60.00	35.21	8.97	19.44	50.00	30.56	PASS
	[MHz] 0.1725 0.2085 0.8160 1.6800 11.7780	[MHz] [dB] 0.1725 10.73 0.2085 10.82 0.8160 10.52 1.6800 10.75 11.7780 10.58 17.6235 10.47	Frequency [MHz]Factor [dB]Reading [dBµV]0.172510.7336.060.208510.8232.250.816010.5210.021.680010.7511.5011.778010.5810.3617.623510.4714.32	Frequency [MHz]Factor [dB]Reading [dBµV]Value [dBµV]0.172510.7336.0646.790.208510.8232.2543.070.816010.5210.0220.541.680010.7511.5022.2511.778010.5810.3620.9417.623510.4714.3224.79	Frequency [MHz]Factor [dB]Reading [dBµV]Value [dBµV]Limit [dBµV]0.172510.7336.0646.7964.840.208510.8232.2543.0763.260.816010.5210.0220.5456.001.680010.7511.5022.2556.0011.778010.5810.3620.9460.0017.623510.4714.3224.7960.00	Frequency [MHz]Factor [dB]Reading [dBµV]Value [dBµV]Limit [dBµV]Margin [dB]0.172510.7336.0646.7964.8418.050.208510.8232.2543.0763.2620.190.816010.5210.0220.5456.0035.461.680010.7511.5022.2556.0033.7511.778010.5810.3620.9460.0039.0617.623510.4714.3224.7960.0035.21	Frequency [MHz]Factor [dB]Reading [dBµV]Value [dBµV]Limit [dBµV]Margin [dBµV]Reading [dBµV]0.172510.7336.0646.7964.8418.0523.040.208510.8232.2543.0763.2620.1917.490.816010.5210.0220.5456.0035.46-2.761.680010.7511.5022.2556.0033.75-0.8711.778010.5810.3620.9460.0039.06-0.3517.623510.4714.3224.7960.0035.218.97	Frequency [MHz]Factor [dB]Reading [dBµV]Value [dBµV]Limit [dBµV]Margin [dBµV]Reading [dBµV]Value [dBµV]0.172510.7336.0646.7964.8418.0523.0433.770.208510.8232.2543.0763.2620.1917.4928.310.816010.5210.0220.5456.0035.46-2.767.761.680010.7511.5022.2556.0033.75-0.879.8811.778010.5810.3620.9460.0039.06-0.3510.23	Frequency [MHz]Factor [dB]Reading [dBµV]Value [dBµV]Limit [dBµV]Margin [dBµV]Reading [dBµV]Value [dBµV]Limit [dBµV]0.172510.7336.0646.7964.8418.0523.0433.7754.840.208510.8232.2543.0763.2620.1917.4928.3153.260.816010.5210.0220.5456.0035.46-2.767.7646.001.680010.7511.5022.2556.0033.75-0.879.8846.0011.778010.5810.3620.9460.0039.06-0.3510.2350.00	Frequency [MHz]Factor [dB]Reading [dBµV]Value [dBµV]Limit [dBµV]Margin [dB]Reading [dBµV]Value [dBµV]Limit [dBµV]Margin [dBµV]0.172510.7336.0646.7964.8418.0523.0433.7754.8421.070.208510.8232.2543.0763.2620.1917.4928.3153.2624.950.816010.5210.0220.5456.0035.46-2.767.7646.0038.241.680010.7511.5022.2556.0033.75-0.879.8846.0036.1211.778010.5810.3620.9460.0039.06-0.3510.2350.0039.77

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]



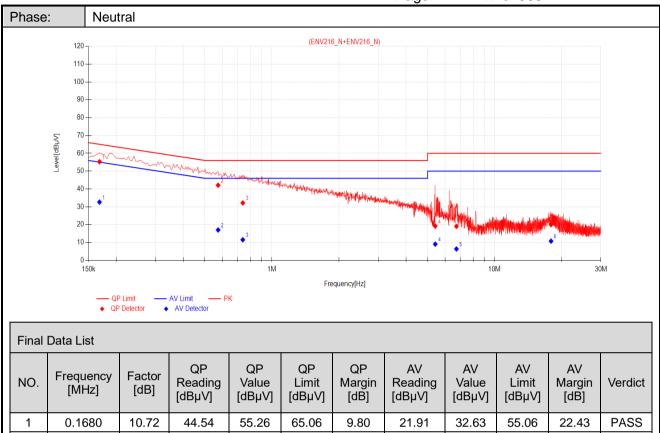
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1	0.1680	10.72	44.54	55.26	65.06	9.80	21.91	32.63	55.06	22.43	PASS
2	0.5730	10.71	31.39	42.10	56.00	13.90	6.32	17.03	46.00	28.97	PASS
3	0.7395	10.81	21.38	32.19	56.00	23.81	0.72	11.53	46.00	34.47	PASS
4	5.4105	10.62	8.62	19.24	60.00	40.76	-1.55	9.07	50.00	40.93	PASS
5	6.7380	10.53	8.53	19.06	60.00	40.94	-4.16	6.37	50.00	43.63	PASS
6	17.9160	10.49	9.61	20.10	60.00	39.90	0.28	10.77	50.00	39.23	PASS

Remark:

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

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

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



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4.3 Duty Cycle

The detailed test data see: Appendix



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Test Requirement:	47 CFR Part 15 Section 15.407(a)(iv)			
Test Method:	ANSI C63.10 :2013 Section 12.3.3.2			
Test Setup:	Power meter	Power meter		E.U.T
		Grou	nd Reference Plane	
	* Test with power meter (Detector function: Average) Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.			
Test Instruments:	Refer to section 6 for details.			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Refer to section 3.7	7 for details.		
Limit:	Frequency Band	Limit		
	5150-5250MHz	Not exceed 250m	nW(24dBm)	
	5250-5350MHz	· · · · · · · · · · · · · · · · · · ·		1+ 10logB
	5470-5725MHz			1+ 10logB
	5725-5850MHzNot exceed 1W(30dBm)*Where B is the 26dB emission bandwidth in MHz			
Test Results:	Pass			
The detailed test data see: A	Appendix			

4.4 Conducted Output Power



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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C	
Test Method:	ANSI C63.10: 2013 Section 12.4.1	
Test Setup:	Pc E.U.T Erotron Unit Fr Control Unit <	
Instruments Used:	Refer to section 6 for details. Transmitting with all kind of modulations, data rates Refer to section 3.7 for details. No restriction limits Pass	
Exploratory Test Mode:		
Final Test Mode:		
Limit:		
Test Results:		
The detailed test data see: A	opendix	



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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 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 lease 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 \circ 0 E.U.T 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:** Pass The detailed test data see: Appendix

4.7 99% Occupied Bandwidth



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Test Requirement:	47 CFR Part 15 Sec	47 CFR Part 15 Section 15.407(a)(iv)	
Test Method:	ANSI C63.10: 2013 Section 12.5		
	KDB 789033 D02 v02r01, Section F.		
Toot Sotup			
Test Setup:		SGS Test system Spectrum Analyzer F Control Unit Test control Unit F Control Unit </th	
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		

4.8 Power Spectral Density



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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: Antenna Figure 1. 9kHz to 30MHz EUT nd Refe **Test Receiver** Pre-Figure 2. Above 1 GHz Figure 1. 30MHz to 1GHz Test Procedure: For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 a. 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. b. 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). The EUT was set 3 or 10 meters away from the interference-receiving C. 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 d. to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



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	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.	
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.	
	g. Test the EUT in the outermost channels.	
	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. 	
	i. Repeat above procedures until all frequencies measured was complete.	
	j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported	
	K. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.	
	 At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB. 	
Test Configuration:	Measurements Below 1000MHz	
	• RBW = 120 kHz	
	• VBW = 300 kHz	
	• Detector = Peak	
	• Trace mode = max hold	
	Peak Measurements Above 1000 MHz	
	 RBW = 1 MHz VBW ≥ 3 MHz 	
	 VBW 2 3 MHz Detector = Peak 	
	Sweep time = auto	
	Trace mode = max hold	
	Average Measurements Above 1000MHz	
	• RBW = 1 MHz	
	 VBW = 10Hz, when duty cycle is no less than 98 percent. 	
	• VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum	
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.	
Final Test Mode:	Refer to section 3.7 for details.	
Instruments Used:	Refer to section 6 for details.	
Test Results:	Pass	
The detailed test data see	e: Appendix	



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4.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)			
Test Method:	ANSI C63.10: 2013 Section 12.7			
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	
		54.0	Average Value	
	Above 1GHz	74.0	Peak Value	

Test Setup:

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Test Setup:	
	Antenna Tower Im or 3m Furntable Ground Reference Plane Test Receiver
Test Procedure:	 a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. a. The antenna height is varied from and meter to four meters above the ground at a second secon
	c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	g. Test the EUT in the outermost channels.h. The radiation measurements are performed in X, Y, Z axis positioning for
	11 . The radiation measurements are performed in Λ , $1, \Sigma$ 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.	
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 = 10Hz, when duty cycle is no less than 98 percent. 	
 VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. 	
Transmitting with all kind of modulations, data rates.	
Refer to section 3.7 for details.	
Refer to section 6 for details.	
Pass	
e: Appendix	



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4.11 Dynamic Frequency Selection

4.11.1 DFS Overview

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

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

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational 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	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

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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					
Note 1: This is the level at the input of the receiver assuming a 0 dE	i 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 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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 t (86-512) 62992980

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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	$\operatorname{Roundup}\left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix}, \\ \left(\frac{19 \cdot 10^{6}}{\operatorname{PRI}_{\mu \operatorname{sec}}} \right) \right\}$	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 Detections	Minimum Percentage of Successful
		Detections	Detection
1	35	29	82.9%
2	30	18	60%
2	30	27	90%
3			88%
4 A mma mata (82.09/	50	44	0070
Aggregate (82.9%)	+60% + 90% + 88%)/4 = 8	50.2%	



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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 6 – Long Pulse Radar Test Waveforn

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)	
8		± 4.88dB (30M -1GHz)	
	Radiated Emission	± 4.75dB (1GHz to 18GHz)	
		± 4.77dB (Above 18GHz)	

Remark:

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The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

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

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



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6 Equipment List

RF Test Equipment							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07		
Temperature and humidity	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15		
meter	MingGao	ТПОВ	3000-01-01-07	2023/02/06	2024/02/05		
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16		
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR		
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27		
Wideband Radio		ROHDE& CMW500 SCHWARZ	SUWI-01-16-05	2022/02/14	2023/02/13		
Communication Tester				2023/02/06	2024/02/05		
DC Power	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14		
Supply	HIELEC	П 1 3005Б	5000-01-16-01	2023/02/06	2024/02/05		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22		
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22		
MXG Vector	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13		
signal genitor	KETSIGHT	NST02B	3000-01-36-01	2023/02/06	2024/02/05		
Temperature				2022/02/15	2023/02/14		
Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05		





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			T ugo.	00 01 000					
	CE Test System								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)				
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07				
Test ressiver				2022/02/19	2023/02/18				
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07				
Temperature and			2022/02/16	2023/02/15					
humidity meter		тнілв	50001-01-01-06	2023/02/07	2024/02/06				
				2022/02/19	2023/02/18				
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2023/02/08	2024/02/07				
			SUWI-01-19-02	2022/02/19	2023/02/18				
Artificial network	ROHDE&SCHWARZ	ENV216		2023/02/08	2024/02/07				
Measurement Software	Tonscend	JS32-CE 4.0.0.2	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-01-01-15	2022/02/16 2023/02/07	2023/02/15 2024/02/06			
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27			
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19 2023/02/08	2023/02/18 2024/02/07			
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-04	2021/12/05	2023/12/04			
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04			
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13			
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09			
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22			
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22			
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22			
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR			



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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 215000
 t (86-512) 62992980

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Emission Bandwidth Test Result

SG

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a		5180	22.36	5168.80	5191.16	Reporting only
		5220	23.32	5208.44	5231.76	
		5240	22.92	5228.80	5251.72	
		5260	23.00	5248.76	5271.76	
	Ant6	5300	23.00	5288.72	5311.72	
		5320	23.04	5308.76	5331.80	
		5500	22.20	5488.80	5511.00	
		5580	23.12	5568.68	5591.80	
		5700	22.40	5688.76	5711.16	
		5720	22.40	5708.76	5731.16	
		5720_UNII-2C	16.24	5708.76	5725	
		5720_UNII-3	6.16	5725	5731.16	
		5745	22.52	5733.80	5756.32	
		5785	22.36	5773.76	5796.12	
		5825	22.96	5813.80	5836.76	
		5180	23.48	5168.32	5191.80	
	Ant6	5220	22.96	5208.72	5231.68	
		5240	23.80	5228.00	5251.80	
		5260	24.00	5247.76	5271.76	
		5300	23.64	5288.12	5311.76	
		5320	24.00	5308.00	5332.00	
		5500	23.48	5488.24	5511.72	
11ac20SISO		5580	23.88	5567.96	5591.84	
		5700	23.64	5688.36	5712.00	
		5720	24.48	5707.36	5731.84	
		5720_UNII-2C	17.64	5707.36	5725	
		5720_UNII-3	6.84	5725	5731.84	
		5745	23.72	5733.08	5756.80	
		5785	23.60	5773.24	5796.84	
		5825	23.56	5813.32	5836.88	
11ac40SISO	Ant6	5190	41.20	5169.44	5210.64	
		5230	41.92	5208.88	5250.80	
		5270	42.16	5248.80	5290.96	
		5310	41.76	5289.04	5330.80	
		5510	41.68	5489.28	5530.96	
		5550	41.60	5529.12	5570.72	
		5670	41.36	5649.36	5690.72	
		5710	41.76	5688.96	5730.72	
		5710_UNII-2C	36.04	5688.96	5725	
		5710_UNII-3	5.72	5725	5730.72	
		5755	41.68	5734.04	5775.72	
		5795	41.60	5774.20	5815.80	
11ac80SISO	Ant6	5210	84.80	5167.12	5251.92	
		5290	84.48	5247.76	5332.24	
		5530	84.32	5487.92	5572.24	
		5610	84.32	5567.92	5652.24	
		5690	84.64	5647.60	5732.24	
		5690_UNII-2C	77.4	5647.60	5725	
		5690_UNII-3	7.24	5725	5732.24	
		5775	84.48	5732.60	5817.08	



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Remark:

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



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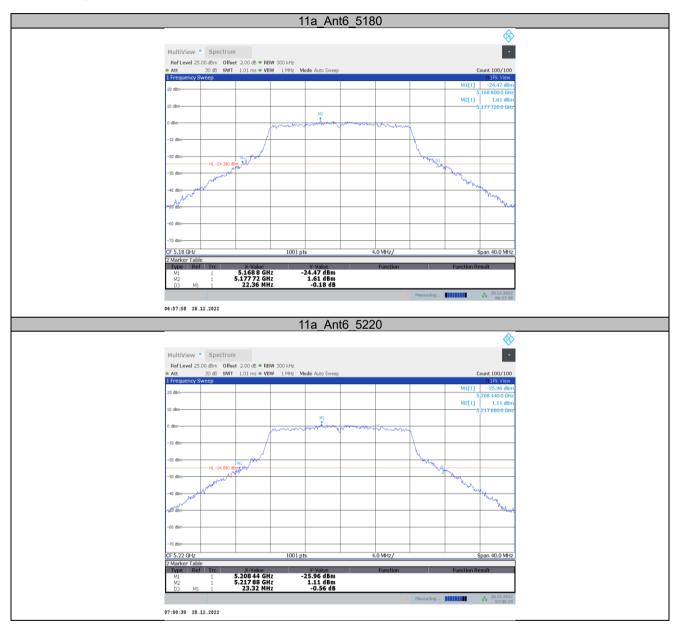
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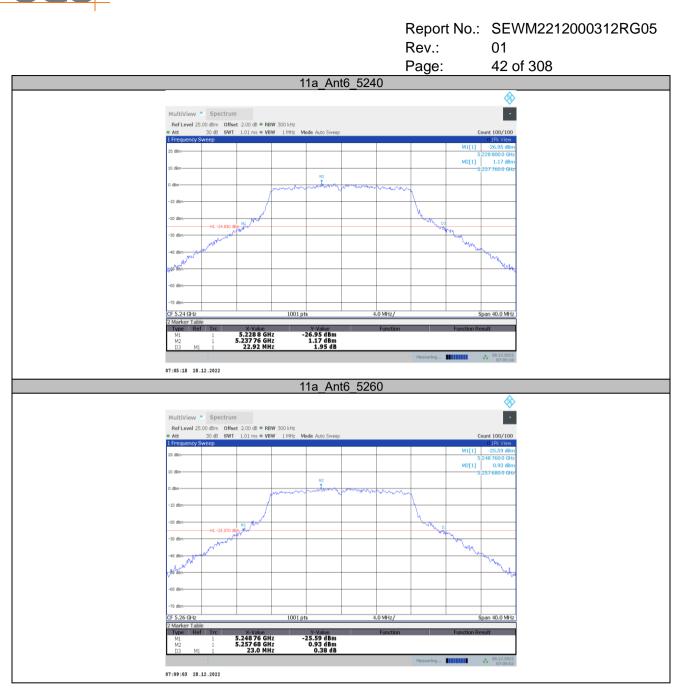


Test Graphs



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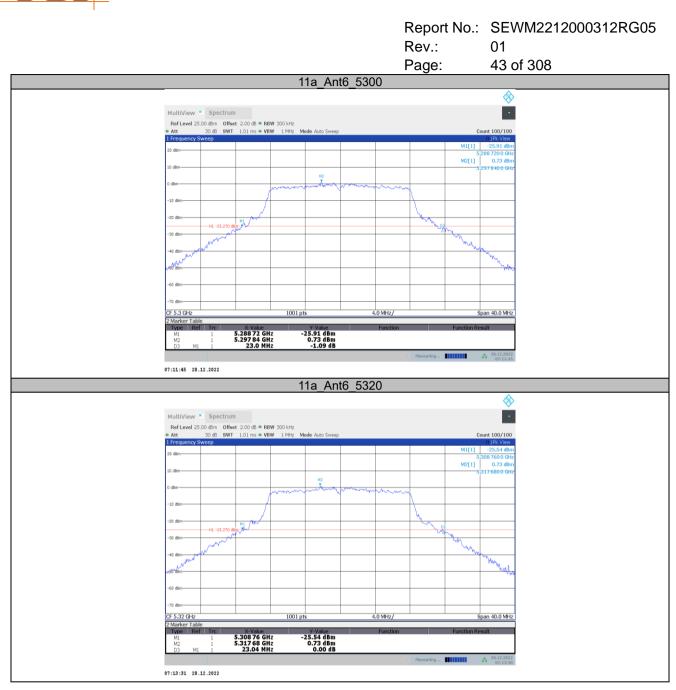
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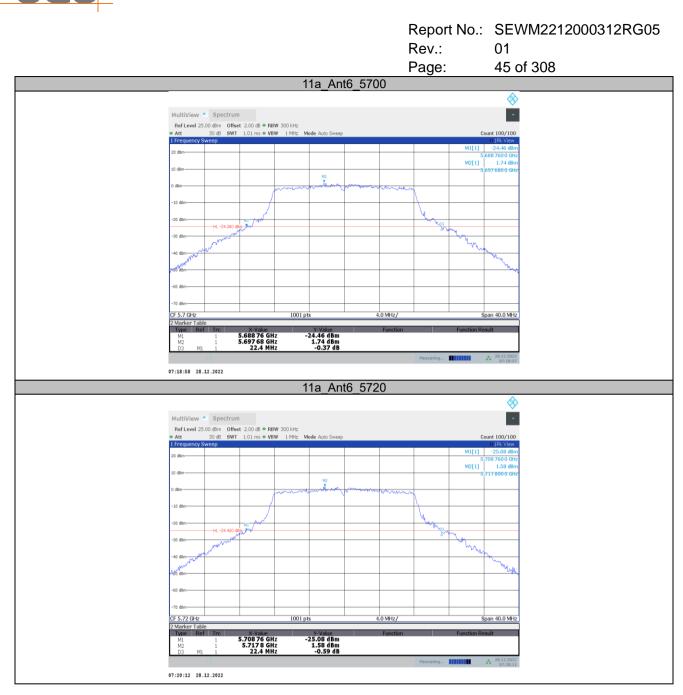
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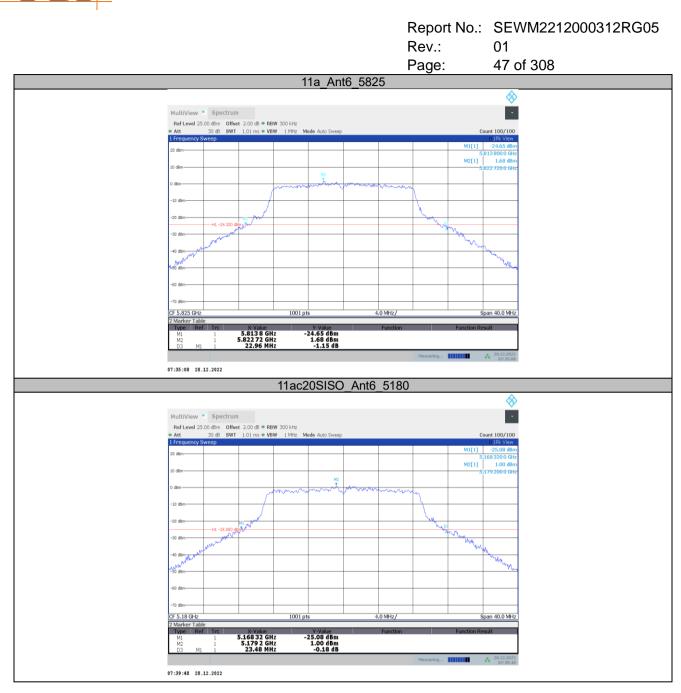
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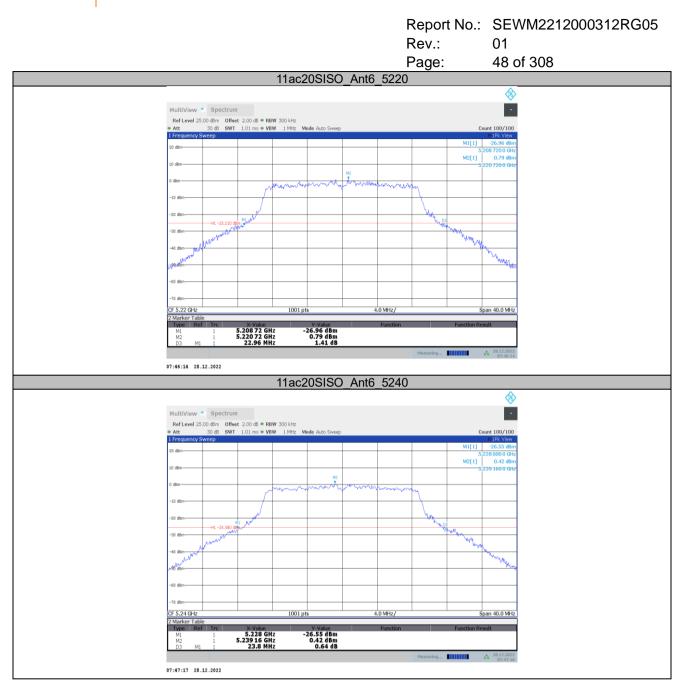
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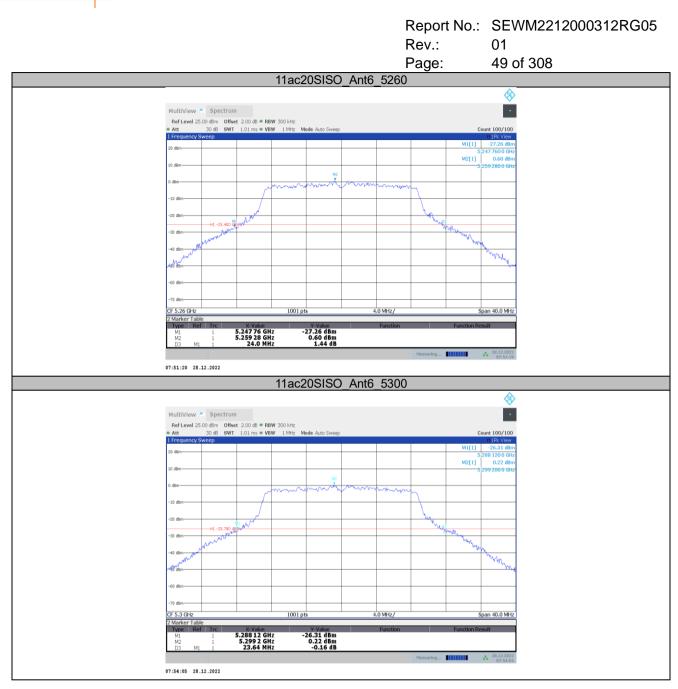
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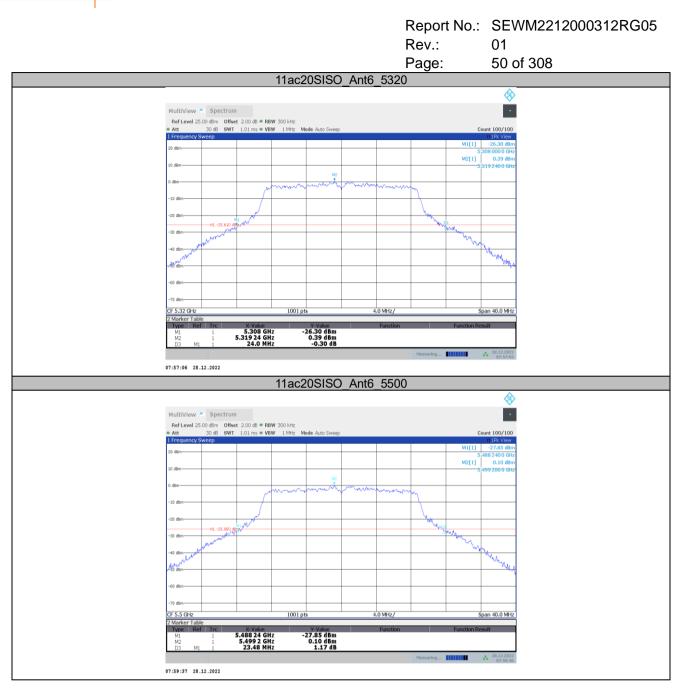
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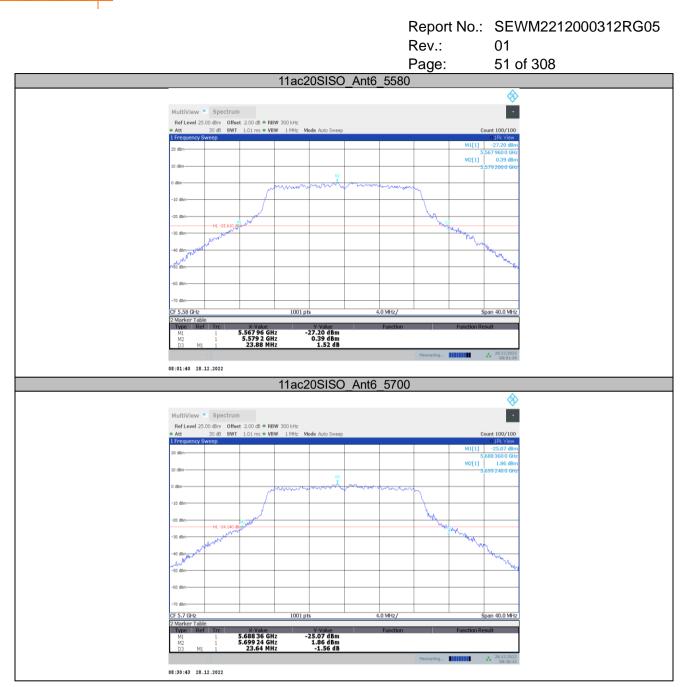
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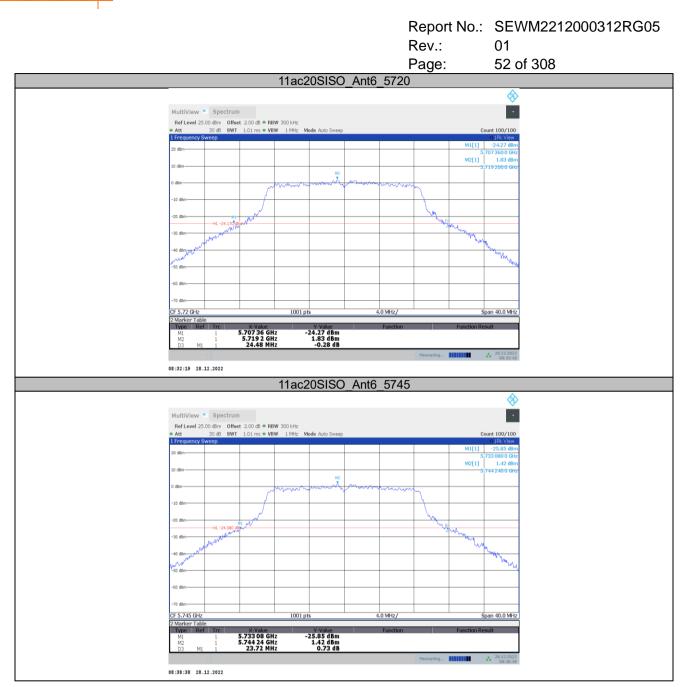
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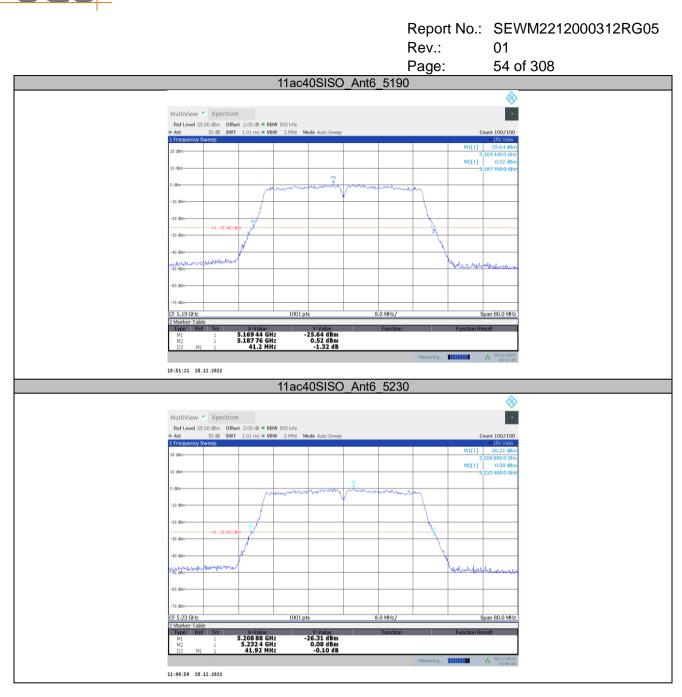
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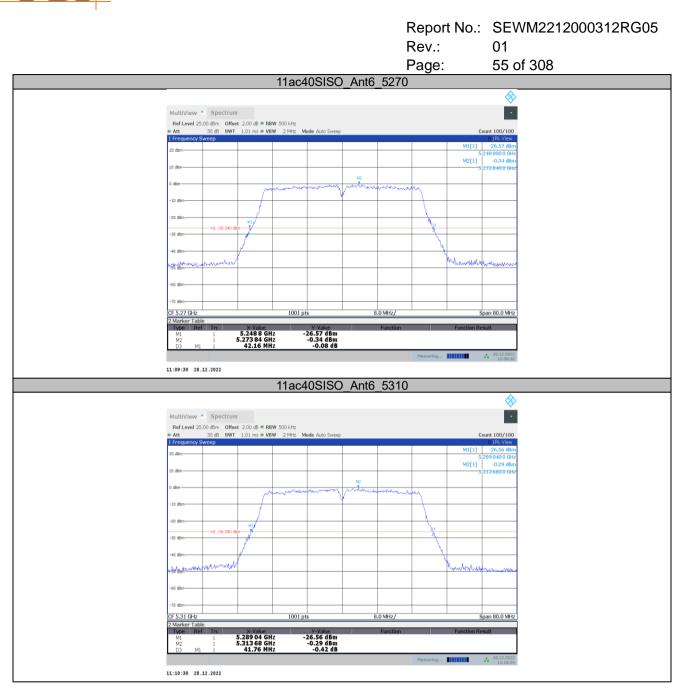
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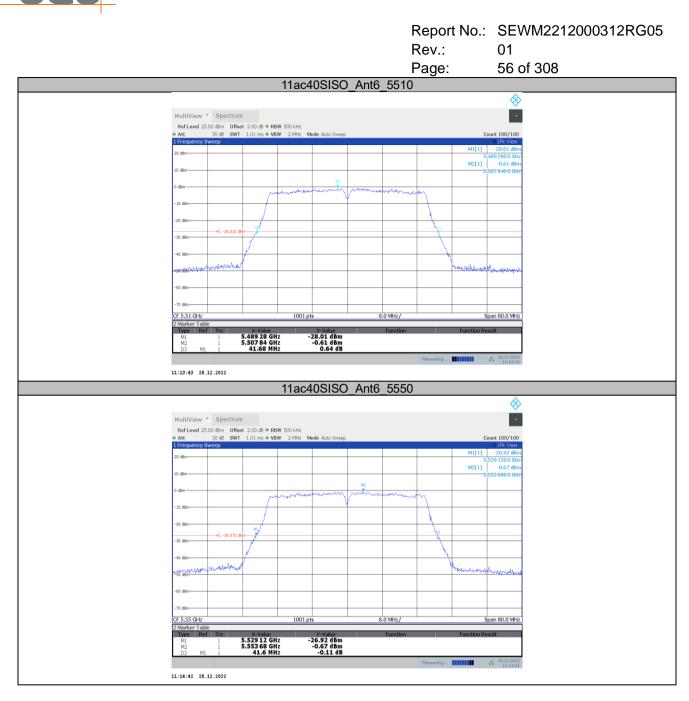
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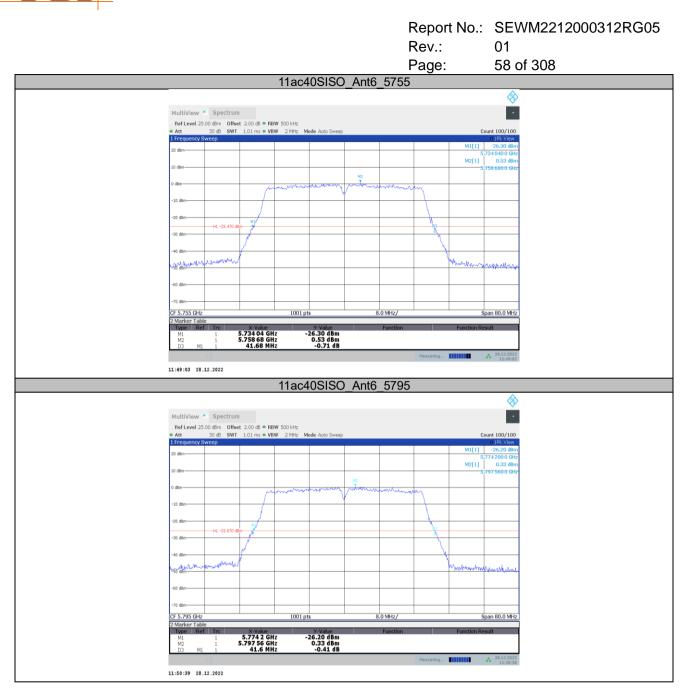
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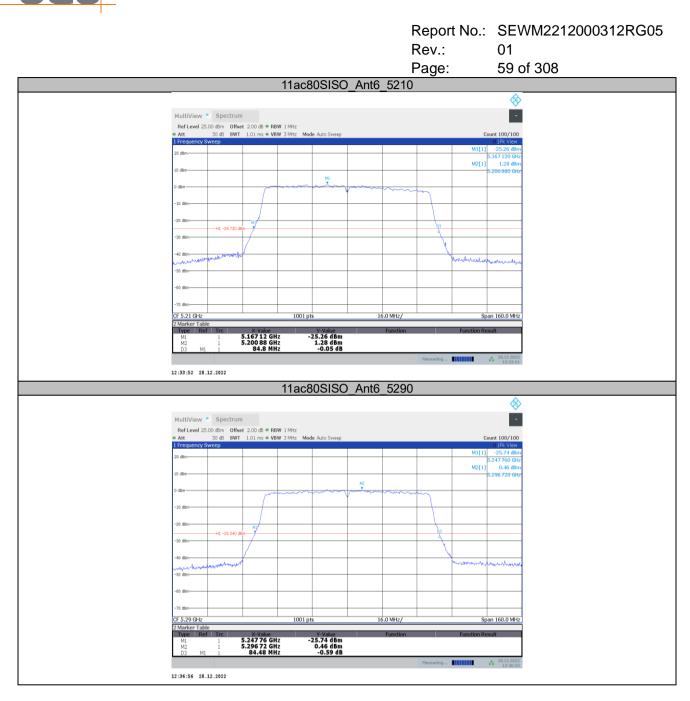
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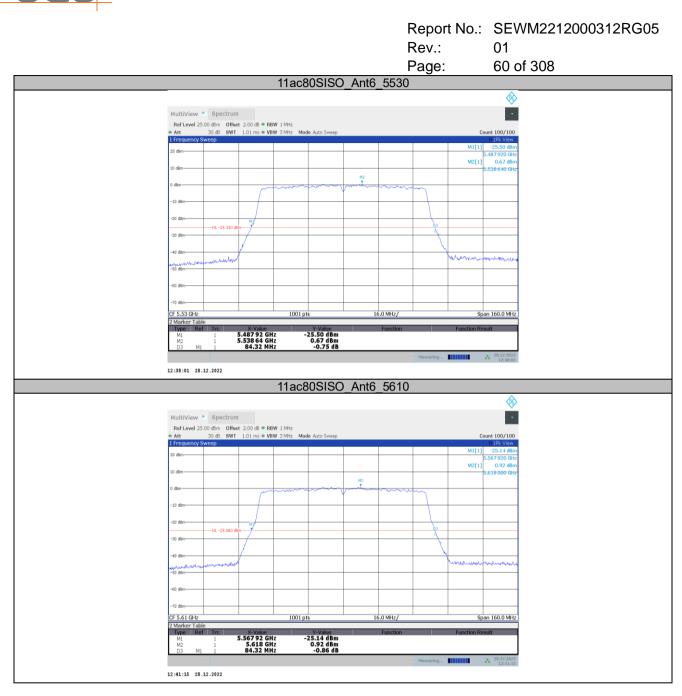
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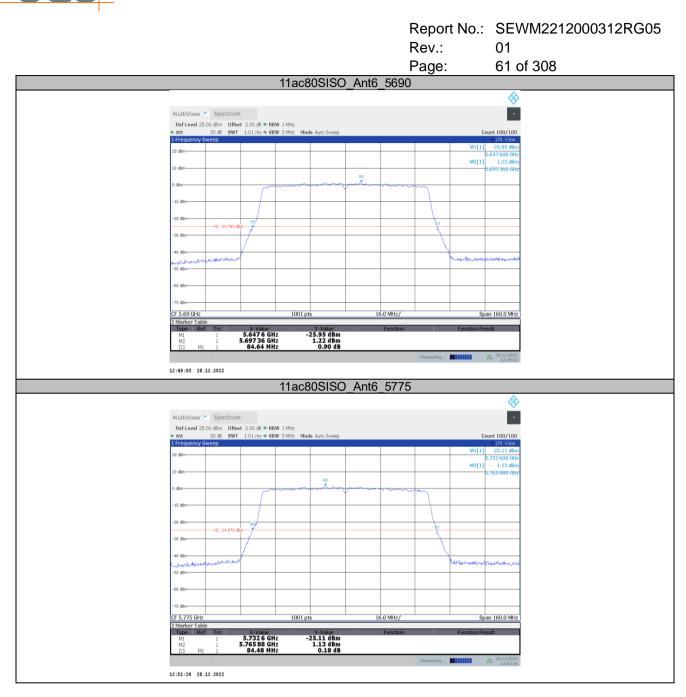
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Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a		5180	17.037	5171.469	5188.506	
		5220	17.011	5211.480	5228.490	
	Ant6	5240	17.069	5231.453	5248.522	
		5260	17.059	5251.443	5268.502	
		5300	17.049	5291.439	5308.488	
		5320	17.085	5311.420	5328.505	
		5500	17.044	5491.426	5508.470	
		5580	17.078	5571.439	5588.516	
		5700	17.063	5691.444	5708.507	
		5720	17.05	5711.441	5728.491	
		5720_UNII-2C	13.559	5711.441	5725	
		5720_UNII-3	3.491	5725	5728.491	
		5745	17.062	5736.436	5753.498	
		5785	17.104	5776.436	5793.540	
		5825	17.092	5816.447	5833.538	
		5180	18.238	5170.910	5189.148	-
		5220	18.215	5210.919	5229.134	
		5240	18.189	5230.920	5249.109	
		5260	18.205	5250.894	5269.099	Reporting only
		5300	18.229	5290.902	5309.131	
		5320	18.236	5310.870	5329.107	
		5500	18.254	5490.868	5509.123	
11ac20SISO	Ant6	5580	18.233	5570.881	5589.114	
		5700	18.224	5690.897	5709.121	
		5720	18.242	5710.892	5729.134	
		5720_UNII-2C	14.108	5710.892	5725	
		5720_UNII-3	4.134	5725	5729.134	
		5745	18.242	5735.888	5754.130	
		5785	18.221	5775.894	5794.115	
		5825	18.239	5815.892	5834.132	
	Ant6	5190	36.532	5171.761	5208.293	
11ac40SISO		5230	36.532	5211.758	5248.289	
		5270	36.544	5251.757	5288.301	
		5310	36.522	5291.766	5328.287	
		5510	36.519	5491.759	5528.278	
		5550	36.539	5531.758	5568.296	
		5670	36.509	5651.767	5688.276	
		5710	36.631	5691.695	5728.327	
		5710_UNII-2C	33.305	5691.695	5725	
		5710_UNII-3	3.327	5725	5728.327	
		5755	36.535	5736.750	5773.286	
		5795	36.497	5776.769	5813.267	
11ac80SISO	Ant6	5210	75.771	5171.860	5247.631	
		5290	75.879	5252.112	5327.991	
		5530	75.823	5492.117	5567.940	
		5610	75.787	5572.148	5647.935	
		5690	75.805	5652.158	5727.963	
		5690_UNII-2C	72.842	5652.158	5725	
		5690_UNII-3	2.963	5725	5727.963	
		5775	75.794	5737.080	5812.875	



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Remark:

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



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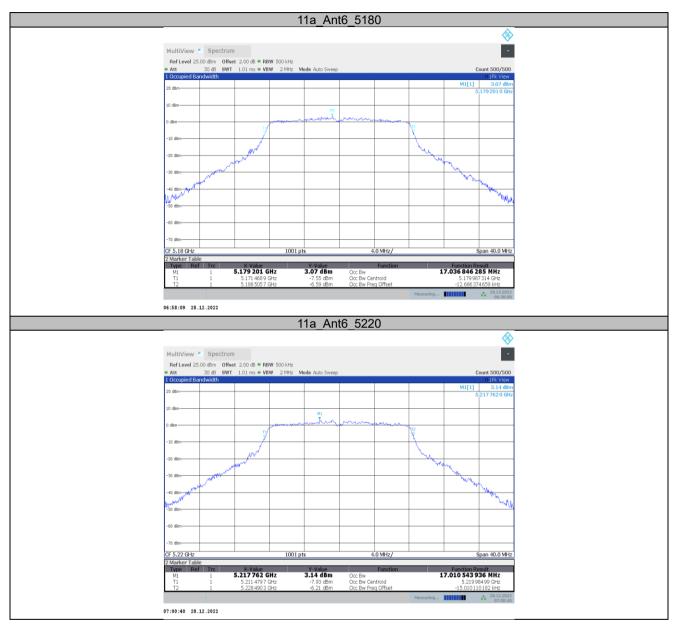
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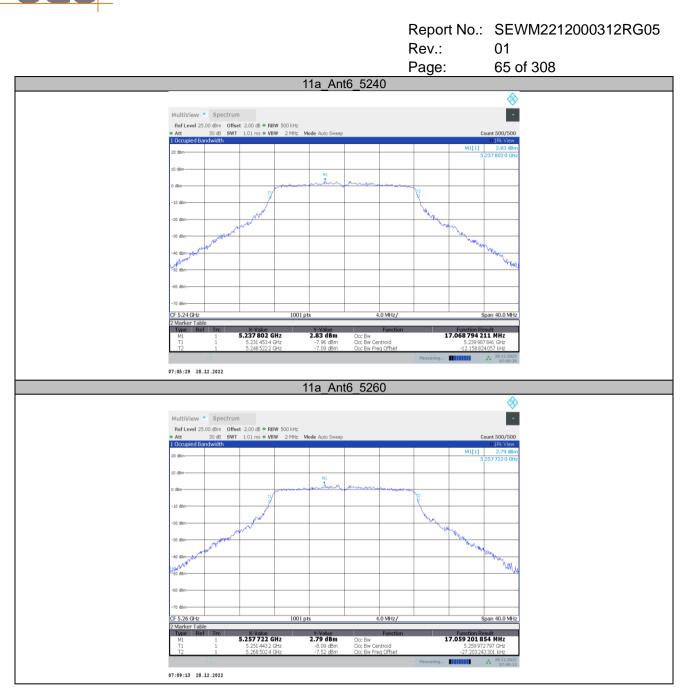


Test Graphs



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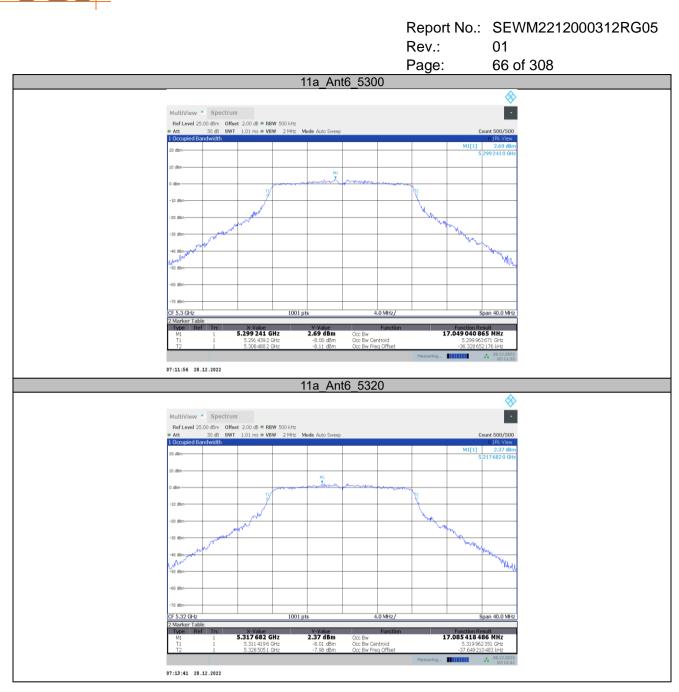
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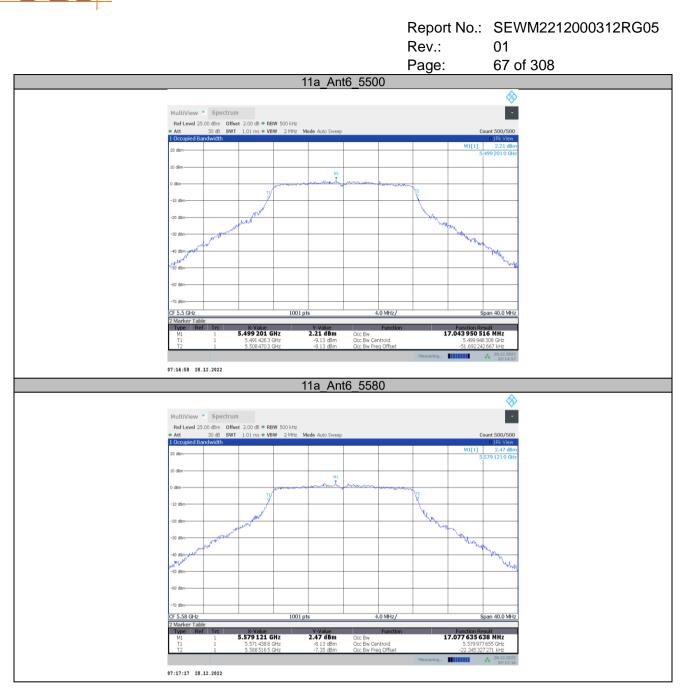
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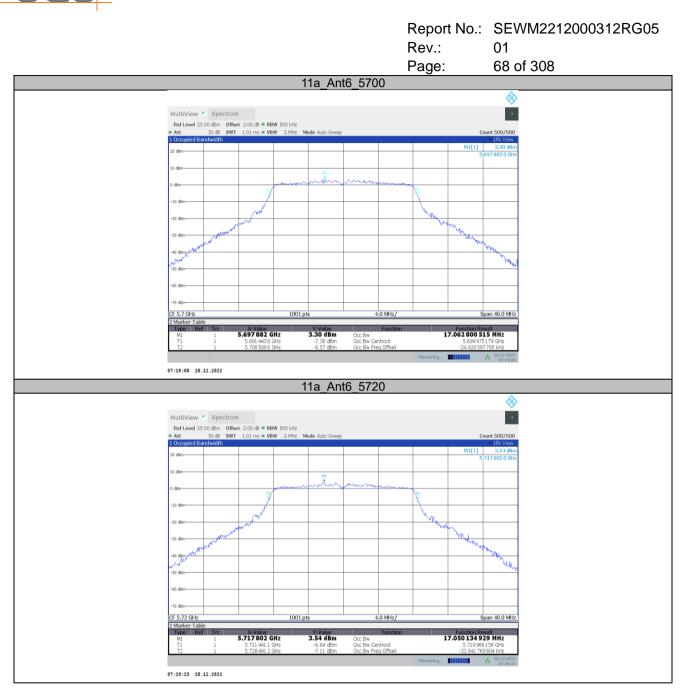
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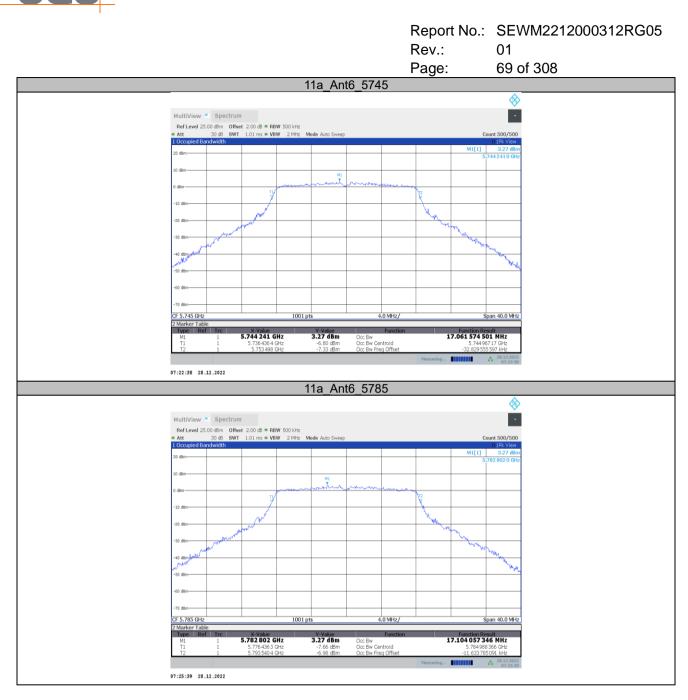
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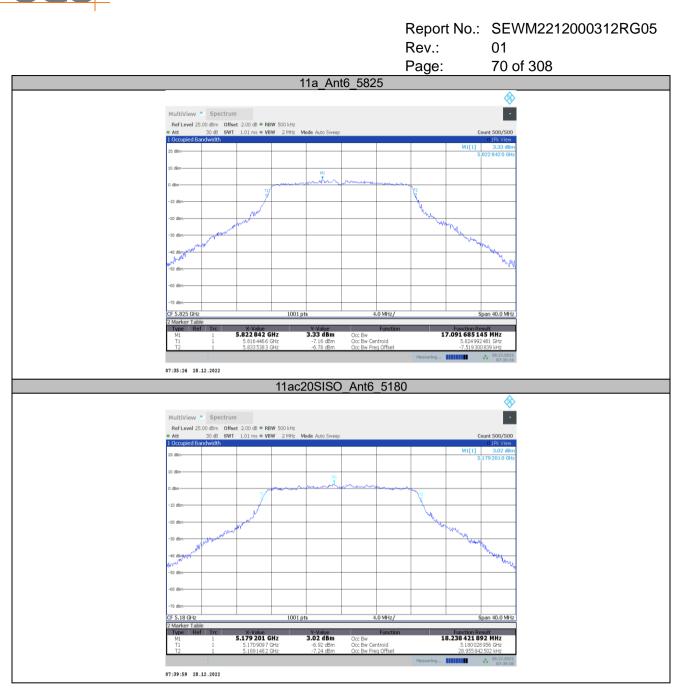
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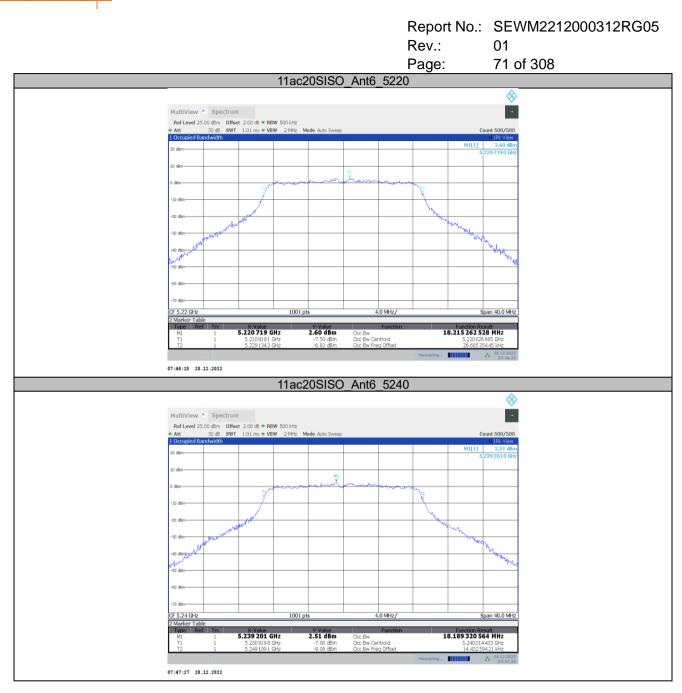
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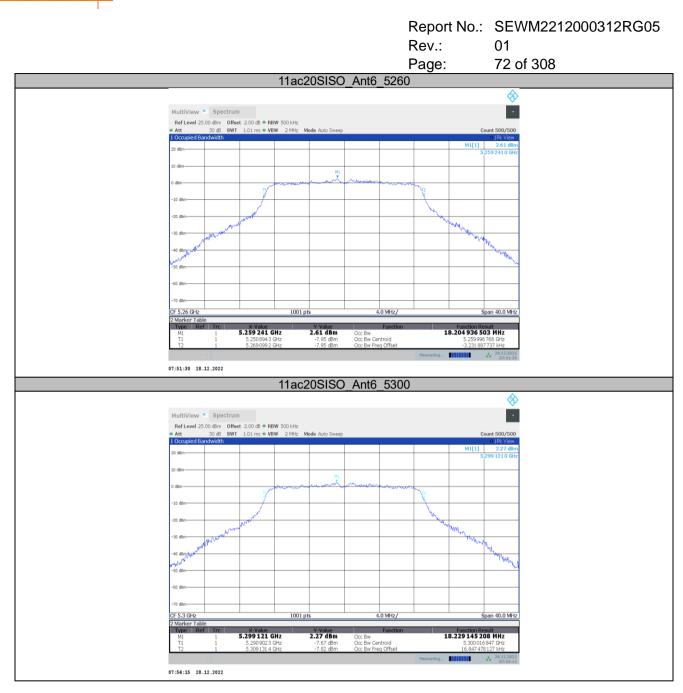
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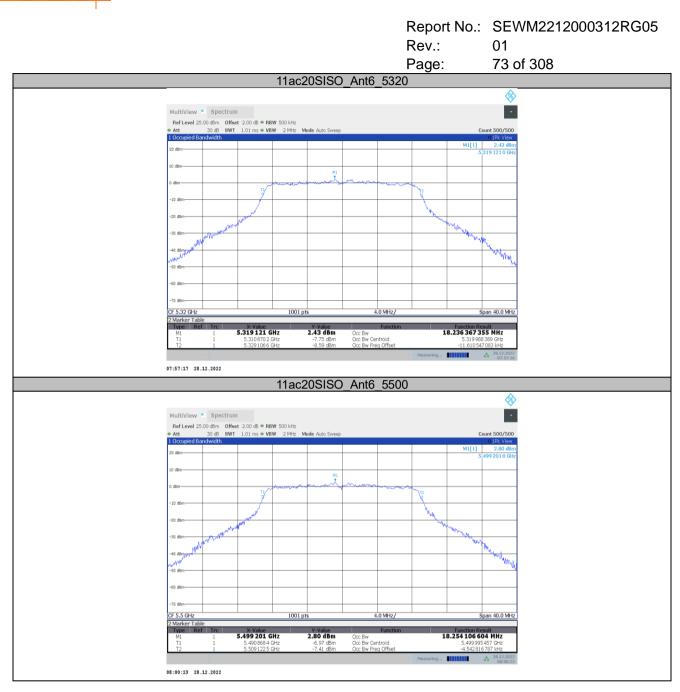
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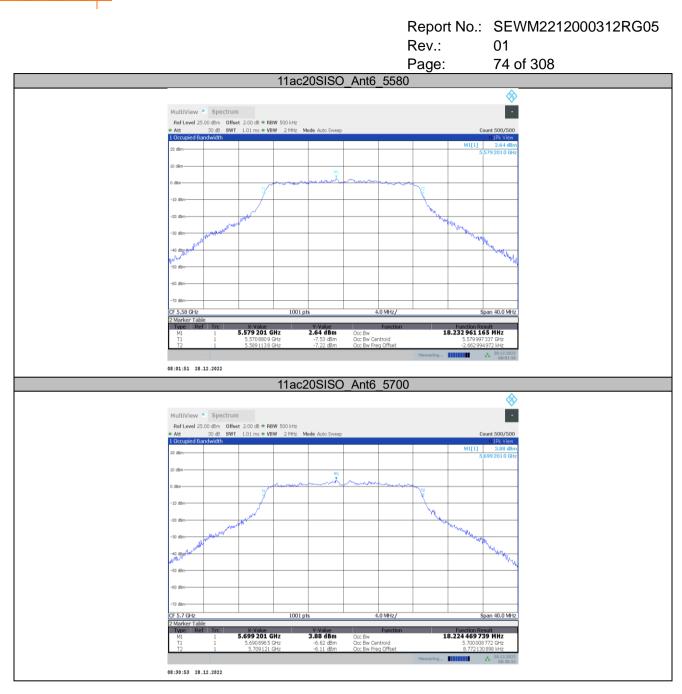
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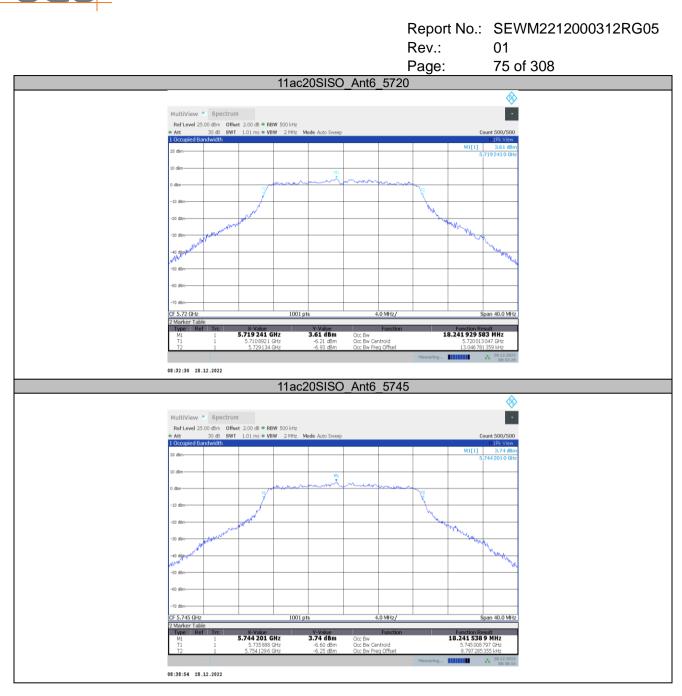
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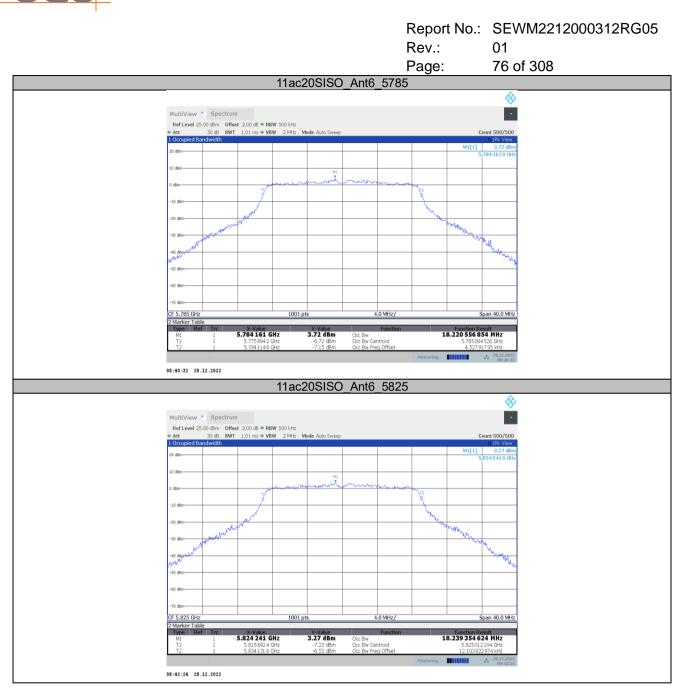
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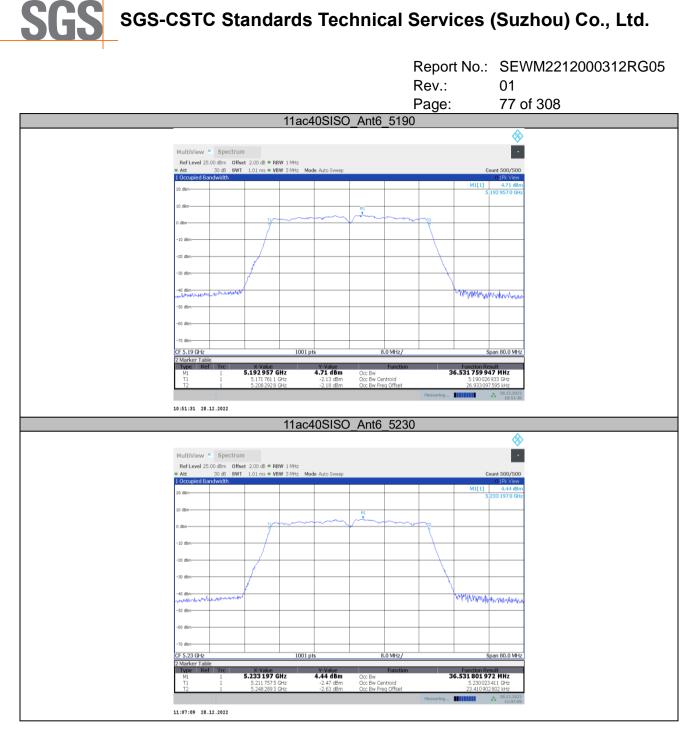
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