Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 1 of 279

TEST REPORT

Test Result :	PASS *
Date of Issue:	2024/03/19
Date of Test:	2023/11/10 to 2024/03/17
Date of Receipt:	2023/11/10
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E
FCC ID:	2AFZZRA50J
Trade Mark:	Redmi
Model No.:	XIG05
EUT Description:	Mobile Phone
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Applicant:	Xiaomi Communications Co., Ltd.
Application No.:	SEWM2311000454RG

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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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 2 of 279

1 Version

Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2024/03/19		Original		

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



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Report No.: SEWM2311000454RG06 Rev.: 01 Page: 3 of 279

2 lest									
Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result				
Antenna Requirement	equirement 15.203/15.407(a)			Clause 4.1	PASS				
	Band I	15.407(a)(1)							
26dB Emission Bandwidth	Band II- A Band II-	15.407(a)(2)	No limit.	Clause 4.5	For Report Purpose				
	C	15.407(a)(2)	15.407(a)(2)		r uipose				
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS				
99% Occupied	Band I Band II- A Band II-	KDB 789033	No limit.	Clause	For Report				
Bandwidth	C Band III	D02§ D		4.7	Purpose				
Duty Cycle	Band I Band II- A Band II- C		No limit.	Clause 4.3	For Report Purpose				
	Band III Band I	15.407(a)(iv)	< 250mW						
Maximum Conducted Output Power	Band II- A Band II- C	15.407(a)(iv)	<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				
	Band III	d III 15.407(a)(3) < 1W							
	Band I	15.407(a)(iv)	<11dBm/MHz						
Maximum Power Spectral Density	Band II- A Band II- C	15.407(a)(2)	<11dBm/MHz	Clause 4.8	PASS				
	Band III	15.407(a)(3)	<30dBm/500KHz						
Radiated	15.2	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).	Clause	PASS				
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).	4.9	PASS				
	Band II-	15.407(b)	F<1GHz:		PASS				

2 Test Summary



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			Report No.: SEV Rev.: 01 Page: 4 of		0454RG00
	С	15.205/15.209	§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).		
	Band III	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP) F≥1GHz &out-restricted:(PK) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS
Restricted bands around fundamental frequency	Band I Band II- A Band II- C Band III	15.407(b) 15.205/15.209		Clause 4.10	PASS
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 I: 5150-5250MHz Band II-A: 5250-5350MHz

SG

Band II-C: 5470-5725MHz

Band III: 5725-5850MHz



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 5 of 279

Contents

1	1 Version						
2	Test S	Summary	3				
3	Gener	al Information	6				
	3.1	Details of Client	6				
	3.2	Test Location	6				
	3.3	Test Facility	6				
	3.4	General Description of EUT	7				
	3.5	Test Environment and Mode	10				
	3.6	Description of Support Units	10				
	3.7	Worst-case configuration and mode	10				
4	Test re	esults and Measurement Data	11				
	4.1	Antenna Requirement	11				
	4.2	AC Power Line Conducted Emissions	13				
	4.3	Duty Cycle	17				
	4.4	Conducted Output Power	18				
	4.5	26dB Emission Bandwidth	19				
	4.6	6dB Emission Bandwidth	20				
	4.7	99% Occupied Bandwidth	21				
	4.8	Power Spectral Density	22				
	4.9	Radiated Spurious Emissions	23				
	4.10	Restricted bands around fundamental frequency	26				
	4.11	Dynamic Frequency Selection	28				
	4	.11.1 DFS Overview	28				
	4	.11.2 DFS Detection Thresholds	29				
	4	.11.3 RADAR TEST WAVEFORMS	30				
	4	.11.4 Response Requirements	32				
5	Measu	urement Uncertainty (95% confidence levels, k=2)	33				
6	Equipr	ment List	34				
7	Photographs - Setup Photos						



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 6 of 279

3 General Information

3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.		
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085		
Manufacturer:	Xiaomi Communications Co., Ltd.		
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085		

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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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 7 of 279

EUT Description:	Mobile Phone					
Model No.:	XIG05					
Trade Mark:	Redmi					
Hardware Version:	13510N16					
Software Version:	Xiaomi Hyp	erOS 1.0				
Power Supply:	Lithium Bat	tery (3.91V)				
IMEI:	RF Conduc	ted		:864594070003501 :864594070003519		
	RSE & AC	power line		:864594070012007 :864594070012000		
	802.11a:	20 MHz chann	el banc	lwidth		
WLAN Mode Supported:	802.11n:	20 MHz / 40 M	Hz cha	nnel bandwidth		
	802.11ac:	20 MHz / 40 M	Hz / 80	MHz channel bandwidth		
Operation Frequency:	5250MHz t 5470MHz t	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz				
	802.11a:	OFDM (BPSK,	QPSK	, 16QAM, 64QAM)		
Modulation Type:	802.11n:	11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)				
	802.11ac:	1ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)				
	20MHz:	802.11a/n(HT20)/ac(VHT20)				
Channel Spacing:	40MHz:	802.11n(HT40)/ac(VHT40)				
	80MHz:	802.11ac(VHT80)				
Antenna Type:	IFA Antenn	a				
Antenna Gain:	5150MHz to 5250MHz: -2dBi (Ant11); -2.2dBi (Ant12); 5250MHz to 5350MHz: -1.4dBi (Ant11); -1.3dBi (Ant12); 5470MHz to 5725MHz: -1.5dBi (Ant11); -0.6dBi (Ant12); 5725MHz to 5850MHz: -1.6dBi (Ant11); -0.2dBi (Ant12);					
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.					
	SISO 🛛	802.11a/n/a	C			
Smart System:		802.11n/ac: 2Tx & 2Rx				
	Diversity	·	x & 2R:	K		
TPC Function:	Support,	Not Support				
DFS Function:	Master					
	Slave wi	th radar detection	n	\boxtimes Slave without radar detection		

3.4 General Description of EUT



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 SEWM2311000454RG06

 Rev.:
 01

 Page:
 8 of 279

RF Cable: Remark:

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2.0dB

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:	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						
IEEE 802.11n/ac 40MHz	The Lowest channel	5270						
	The Highest channel	5310						
IEEE 802.11ac 80MHz	The Middle channel	5290						



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 9 of 279

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					
	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
Straddie Channel	138 ^[3]	5690		
	120 ^[1]	5600	124 ^[1]	5620
TDWR Channel	128 ^[1]	5640	118 ^[2]	5590
	126 ^[2]	5630	122 ^[3]	5610

Note:

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

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

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



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 10 of 279

3.5 Test Environment and Mode

Environment Parameter	101 kPa Selected Values During Tests			
Relative Humidity	44-46 % RH Ambient			
Value	Temperature(℃)	Voltage(V)		
NTNV	22~23	3.91		
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

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	CDD/MIMO - Data Rate		
802.11a	6 Mbps	12 Mbps		
802.11n (HT 20)	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)		
802.11n (HT 40)	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)		
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)		
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)		
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	MCS0 (58.5 Mbps)		



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 11 of 279

4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:47 CFR Part 15 Section 15.203The antenna is IFA Antenna and no consideration of replacement.The best case gain of the antenna is5150MHz to 5250MHz: -2dBi (Ant11); -2.2dBi (Ant12);*5250MHz to 5350MHz: -1.4dBi (Ant11); -1.3dBi (Ant12);*5470MHz to 5725MHz: -1.5dBi (Ant11); -0.6dBi (Ant12);*5725MHz to 5850MHz: -1.6dBi (Ant11); -0.2dBi (Ant12);**Note:The antenna gain are derived from the gain information report provided by the manufacturer.Remark:As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 12 of 279

Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices, *Array Gain* = 10 log(N_{ANT}/N_{SS}=1) dB.
- For power measurements on IEEE 802.11 devices: Array Gain = 0 dB (i.e., no array gain) for N_{ANT} ≤ 4;

For power, the directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

Unequal antenna gain:

Operation Frequency	ANT Gain11 (dBi)	ANT Gain12 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150MHz to 5250MHz			-2	0.91	0	0
5250MHz to 5350MHz	-1.4	-1.3	-1.3	1.66	0	0
5470MHz to 5725MHz	-1.5	-0.6	-0.6	1.97	0	0
5725MHz to 5850MHz	-1.6	-0.2	-0.2	2.14	0	0

5150MHz to 5250MHz:

Power Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) =0 PSD Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) =0 5250MHz to 5350MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0 PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0 5470MHz to 5725MHz:

Power Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) =0 PSD Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) =0 5725MHz to 5850MHz:

Power Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) =0 PSD Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) =0



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 13 of 279

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 = 30)kHz				
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	parithm of the frequency.				
Test Procedure:	 room. 2) The EUT was connected Impedance Stabilization impedance. The power connected to a second plane in the same ware multiple socket outlet single LISN provided 3) The tabletop EUT ware ground reference plate placed on the horizond 4) The test was perform of the EUT shall be 00 vertical ground reference plane. The unit under test and be mounted on top of the between the closest the EUT and association 5) In order to find the mere and an of the second se	disturbance voltage test was cted to AC power source throu- tion Network) which provides ver cables of all other units of ad LISN 2, which was bonded ay as the LISN 1 for the unit b t strip was used to connect m the rating of the LISN was no as placed upon a non-metallic ine. And for floor-standing arra- ntal ground reference plane, ned with a vertical ground refe 0.4 m from the vertical ground ence plane was bonded to the e LISN 1 was placed 0.8 m fro onded to a ground reference e ground reference plane. Th points of the LISN 1 and the E ted equipment was at least 0 aximum emission, the relative the interface cables must be on conducted measurement.	ugh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear the EUT were to the ground reference being measured. A ultiple power cables to a bet exceeded. table 0.8m above the angement, the EUT was erence plane. The rear reference plane. The e horizontal ground m the boundary of the plane for LISNs is distance was EUT. All other units of .8 m from the LISN 2. e positions of			

4.2 AC Power Line Conducted Emissions

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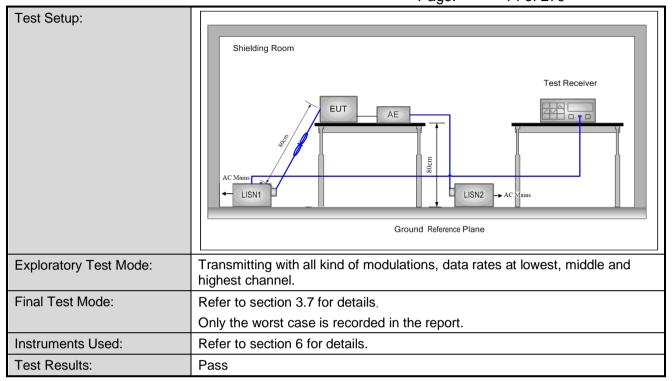
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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 14 of 279





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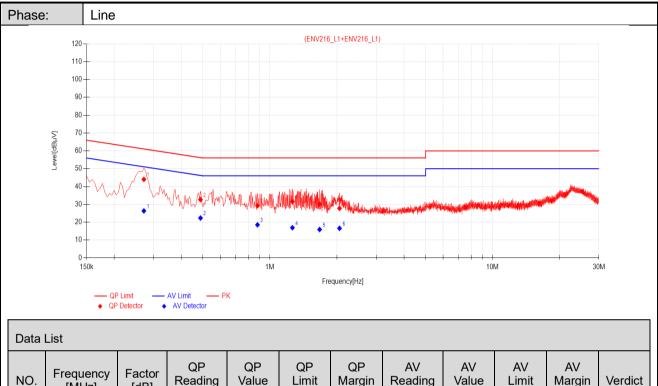
 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 15 of 279

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	0.2715	11.64	32.36	44.00	61.07	17.07	14.69	26.33	51.07	24.74	PASS
2	0.4875	11.60	21.07	32.67	56.21	23.54	10.73	22.33	46.21	23.88	PASS
3	0.8790	11.70	17.52	29.22	56.00	26.78	6.84	18.54	46.00	27.46	PASS
4	1.2615	11.73	19.85	31.58	56.00	24.42	5.17	16.90	46.00	29.10	PASS
5	1.6710	11.73	18.39	30.12	56.00	25.88	4.18	15.91	46.00	30.09	PASS
6	2.0535	11.73	16.06	27.79	56.00	28.21	4.85	16.58	46.00	29.42	PASS
Rema	rk:										

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

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

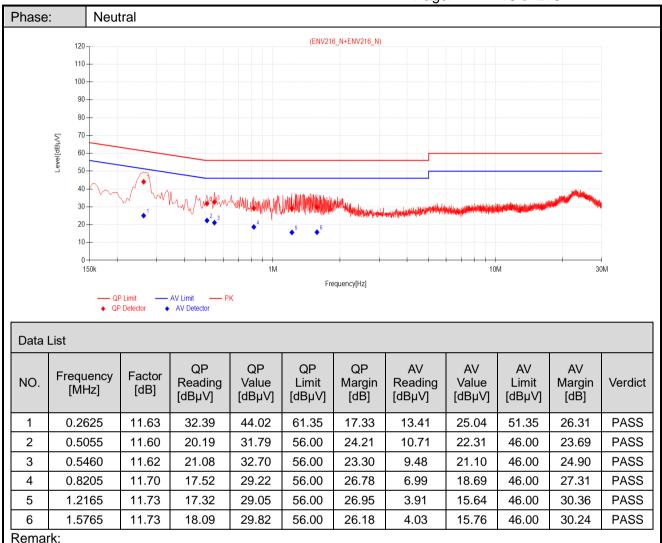
3. Margin = Limit[dBµV] – Value[dBµV]



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Report No.: SEWM2311000454RG06 Rev.: 01 16 of 279 Page:



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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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 17 of 279

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 Image: Signal Generator Image: Signal Gen		
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		



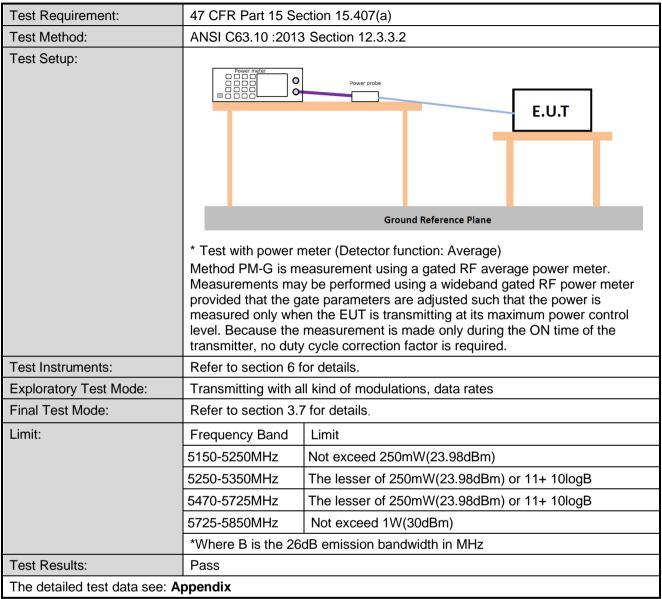
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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 18 of 279



4.4 Conducted Output Power



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 19 of 279

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 Oŏč 0 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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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 20 of 279

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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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 21 of 279

Test Requirement: KDB 789033 D02§ D Test Method: ANSI C63.10: 2013 Section 12.4.2 Test Setup: SGS Test system 0 PC Oŏ Cont 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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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 22 of 279

-	-		
Test Requirement:	47 CFR Part 15 Section 15.407(a)		
Test Method:	ANSI C63.10: 2013 Section 12.5		
	KDB 789033 D02 v0	02r01, Section F.	
Test Setup:	PC	SGS Test system Spectrum Analyzer Image: Signal Generator Image: Signal Generator Image: Signal Generator Image: Signal Ge	
Instruments Used:	Refer to section 6 fo	or 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: Appendix			

4.8 Power Spectral Density



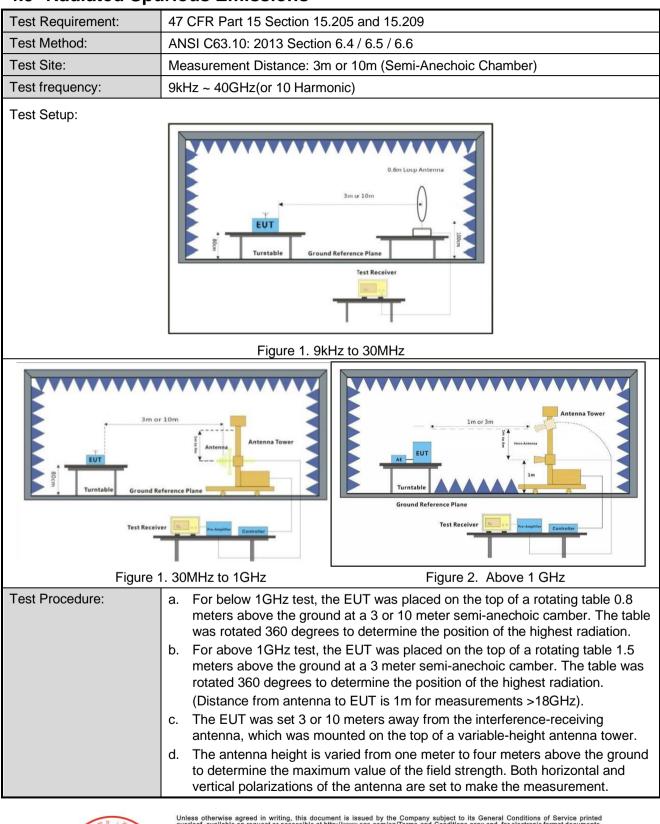
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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 23 of 279



4.9 Radiated Spurious Emissions



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Report No.: SEWM2311000454RG06 Rev.: 01 Page: 24 of 279

	Page: 24 of 279
	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.
	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 = 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.
	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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	Report No.:	SEWM2311000454RG06
	Rev.:	01
	Page:	25 of 279
The detailed test data see: Appendix		



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 26 of 279

4.10Restricted bands around fundamental frequency

Test Requirement:	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		
	Above 1GHz	54.0	Average Value		
	Above IGHZ	74.0	Peak Value		

Test Setup:

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Test Setup.	
	Antenna Tower Im or 3m Im or 3m I
Test Procedure:	 a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel.
	g. Test the EUT in the outermost channels.h. The radiation measurements are performed in X, Y, Z axis positioning for



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Report No.: SEWM2311000454RG06 Rev.: 01

Page:	27 of 279

	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 ≥ 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: Appendix		



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 28 of 279

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 perfo	ormance check (Section 7.8.4) sho	uld include several				
frequencies within the radar detection	bandwidth and frequencies near th	e 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	bonded 20 MHz channels and the channel center frequency.					



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 29 of 279

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 dBi receive antenna.						
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the						
test transmission waveforms to account for variations in measurement equipment. This will ensure that						
the test signal is at or above the detection threshold level to trigger a DFS response.						
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication						
662911 D01.						



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 30 of 279

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	$\operatorname{Roundup} \left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix} \right\}$	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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Report No.: SEWM2311000454RG06 Rev.: 01 31 of 279 Page:

Table 5a - Pulse Repetition Intervals Values for Test A					
Pulse Repetition Frequency	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval			
Number	(,	(Microseconds)			
1	1930.5	518			
2	1858.7	538			
3	1792.1	558			
4	1730.1	578			
5	1672.2	598			
6	1618.1	618			
7	1567.4	638			
8	1519.8	658			
9	1474.9	678			
10	1432.7	698			
11	1392.8	718			
12	1355	738			
13	1319.3	758			
14	1285.3	778			
15	1253.1	798			
16	1222.5	818			
17	1193.3	838			
18	1165.6	858			
19	1139	878			
20	1113.6	898			
21	1089.3	918			
22	1066.1	938			
23	326.2	3066			

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

Radar Type	Number of Trials	Number of Successful	Minimum Percentage			
			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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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 32 of 279

	Table 6 – Long Pulse Kadar 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

	Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
	Туре	Width	(µsec)	per	Rate	Sequence	Percentage of	Number of
		(µsec)		Нор	(kHz)	Length	Successful	Trials
l						(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



 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 33 of 279

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)	
0		± 3.13dB (9k -30MHz)	
	Radiated Emission	± 4.88dB (30M -1GHz)	
8	Radiated Emission	± 4.75dB (1GHz to 18GHz)	
		± 4.77dB (Above 18GHz)	

Remark:

S

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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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 34 of 279

6 Equipment List

RF conducted test							
Tost Equipment	Manufacturer	Inventory No.	Cal. date	Cal.Due date			
Test Equipment	Manufacturer	Model No.	inventory No.	(yyyy/mm/dd)	(yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07		
Temperature and	e and Missource Thread D Outwill of or or		2023/02/06	2024/02/05			
humidity meter	MingGao	TH101B	SUWI-01-01-07	2024/02/18	2025/02/17		
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	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		
				2024/02/04	2025/02/03		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05		
DC Fower Supply				2024/02/04	2025/02/03		
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	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05		
genitor	KE I SIGHT			2024/02/04	2025/02/03		

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&SCHWAR Z	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07			
				2024/02/01	2025/01/31			
Temperature and humidity meter*	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06			
				2024/02/08	2025/02/07			
Artificial network	ROHDE&SCHWAR Z	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07			
				2024/02/04	2025/02/03			
Artificial network	ROHDE&SCHWAR Z	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07			
				2024/02/04	2025/02/03			
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR			

*Note:The equipment will not be used after 2024/02/06 to 2024/02/08.

RSE Test System



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			Report Rev.: Page:	No.: SEWM23 01 35 of 279	311000454RG06
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 2024/02/08	2024/02/06 2025/02/07
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
				2024/02/01	2025/01/31
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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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 36 of 279

7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 37 of 279

Appendix



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 38 of 279



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 Report No.:
 SEWM2311000454RG06

 Rev.:
 01

 Page:
 39 of 279

Emission Bandwidth Test Result

11a-CDD Ant11 5180 21.32 5198.972 5199.72 5190.32 11a-CDD Ant11 5220 22.08 5205.49 5221.04 11a-CDD Ant11 5240 22.08 5205.44 5205.03 11a-CDD Ant11 5240 21.08 5229.84 5205.03 11a-CDD Ant11 5240 21.08 5229.44 5205.03 11a-CDD Ant11 5260 21.00 5249.56 5270.32 11a-CDD Ant12 5300 20.88 5289.44 5310.60 11a-CDD Ant12 5300 20.88 5289.64 5310.20 11a-CDD Ant12 5500 23.12 5489.54 5512.64 11a-CDD Ant11 5500 20.48 5569.30 5509.02 11a-CDD Ant11 5700 21.04 5689.84 5710.68 11a-CDD Ant12 5700 20.80 5709.72 5730.32 11a-CDD Ant11 5720<	TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a-CDD Ant12 5180 20.60 5189.72 5190.32 11a-CDD Ant11 5220 22.08 5208.96 5231.04 11a-CDD Ant12 5220 24.92 5205.44 5230.36 11a-CDD Ant11 5240 20.52 5229.44 5250.52 11a-CDD Ant11 5260 20.76 5249.52 5270.52 11a-CDD Ant12 5300 20.88 5289.72 5310.60 11a-CDD Ant11 5300 20.88 5289.164 5310.32 11a-CDD Ant11 5300 23.60 5310.00 5330.20 11a-CDD Ant11 5500 23.80 5489.54 5512.24 11a-CDD Ant11 5700 20.48 5569.80 509.20 11a-CDD Ant12 5700 20.88 5689.56 5710.44 11a-CDD Ant12 5720 20.60 5690.20 5730.32 11a-CDD Ant12 5720 UNI-3 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Vordiot</td>							Vordiot
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Remark:

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1.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.

2.For WLAN SISO & CDD/MIMO mode for 802.11b/g/n mode, the whole testing has assessed only CDD/MIMO mode by referring to their higher output power.



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 Report No.:
 SEWM2311000454RG06

 Rev.:
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 Page:
 41 of 279

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pan 40.0 MH

an 40.0 MH

• Ref Level 30.00 dBm Offset 2.00 dB * RBW 200 Ref Level 30.00 dBm Offset 2.00 dB • RBW N.M. 4.0 MHz/ 1001 pt 1.0 MHz pan 40.0 MHz 1001 pt 5.169 72 GHz 5.178 72 GHz 5.169 8 GH 18.48 dBm 7.98 dBm 21.91 dBn 4.89 dBn 14:31:49 11.03.2024 14:36:00 11.03.2024 11a-CDD-Ant11-5180 11a-CDD-Ant12-5180 Ref Level 30.0 1001 pt 1 MHz ian 40.0 MF 1001 : 4.0 MHz/

Test Graphs



5.208 96 GHz 5.223 72 GHz 22.08 MHz

14:53:48 11.03.2024

18.40 dBm 7.83 dBm -0.88 dB

11a-CDD-Ant11-5220

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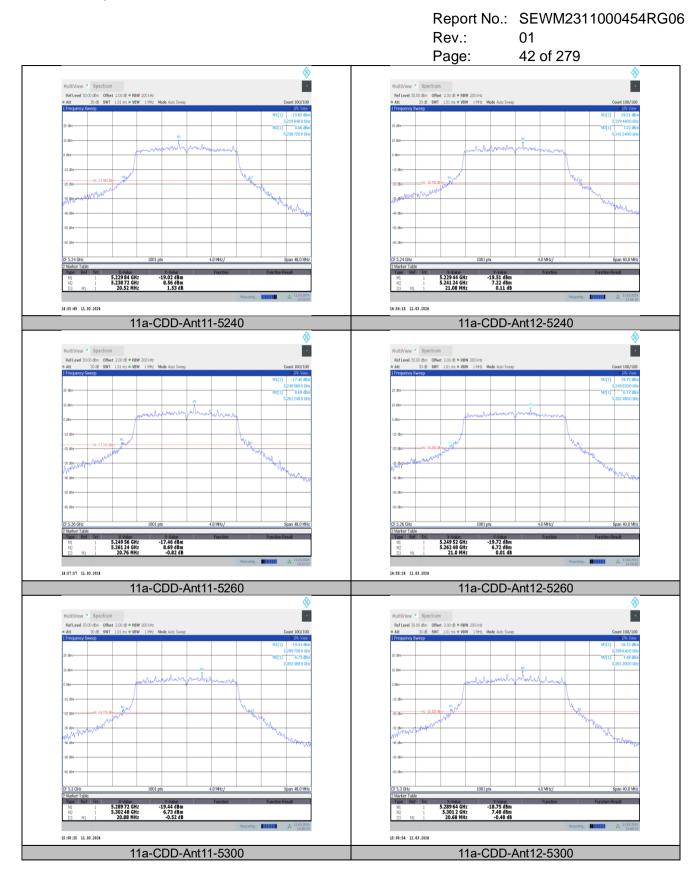
5.205 44 GHz 5.221 24 GHz 24.92 MHz

14:54:21 11.03.2024

-19.68 dBm 8.92 dBm 1.42 dB

11a-CDD-Ant12-5220

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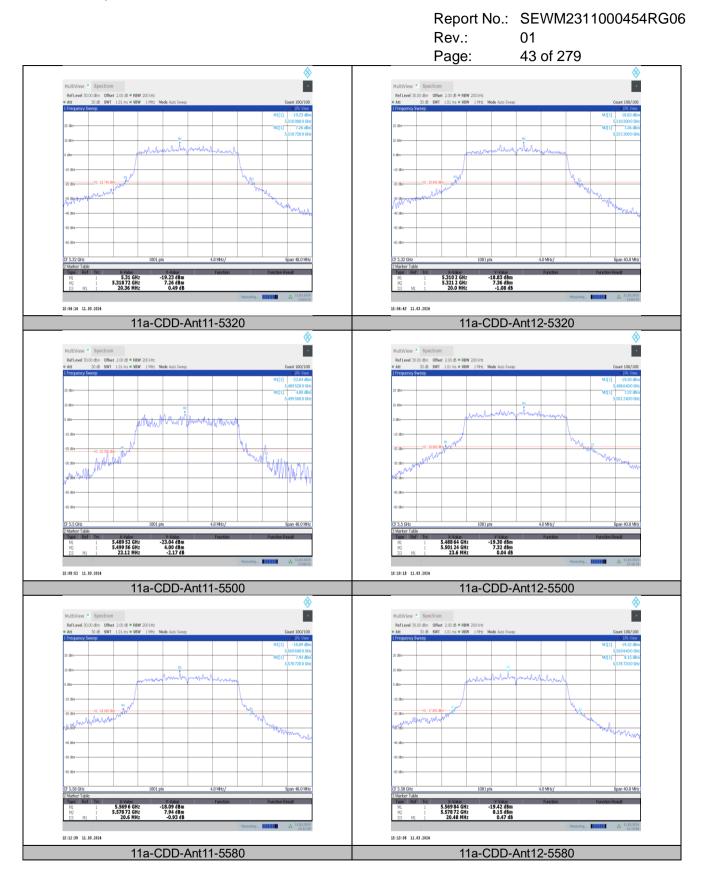
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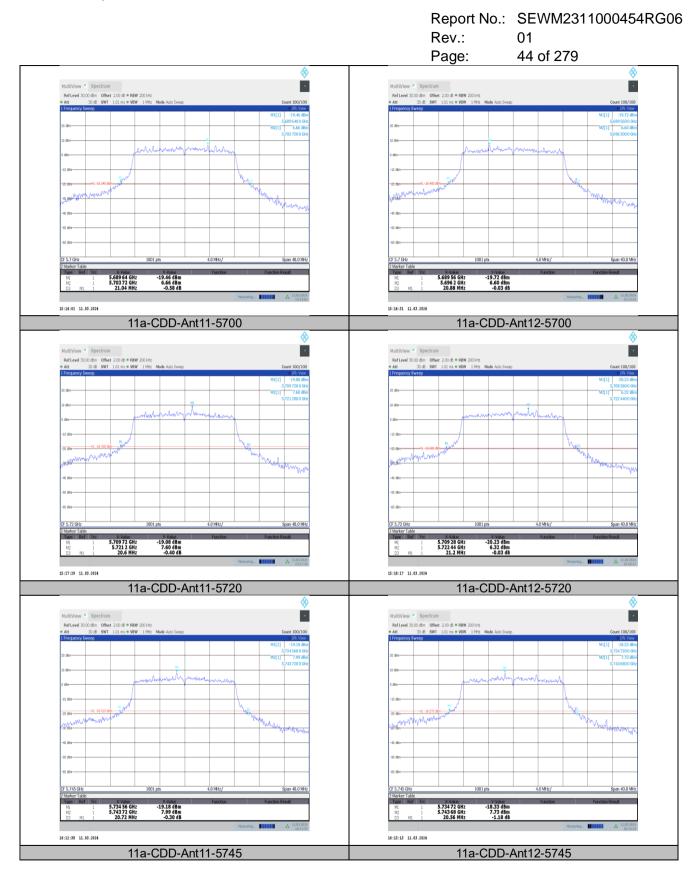
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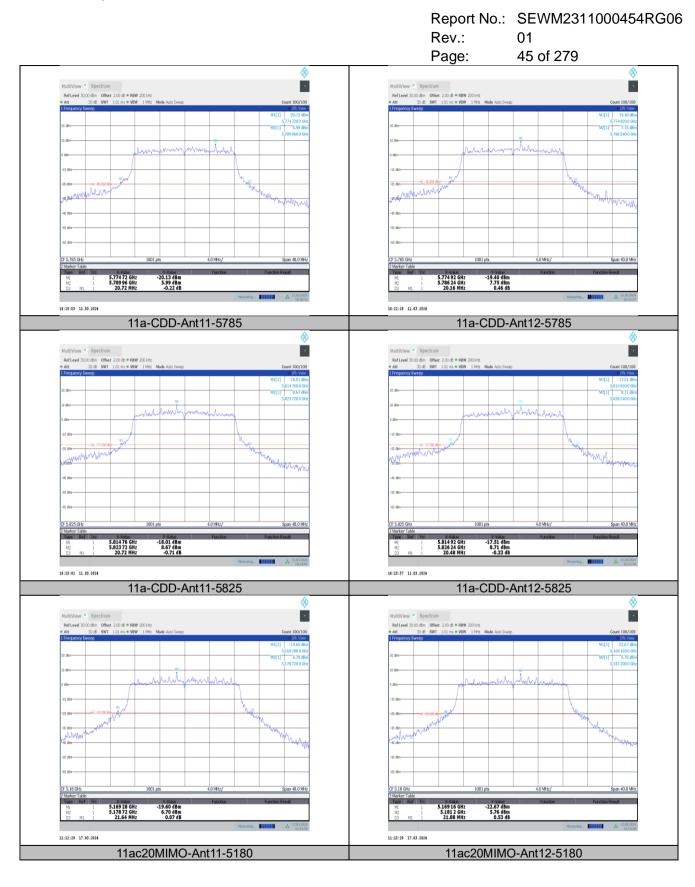
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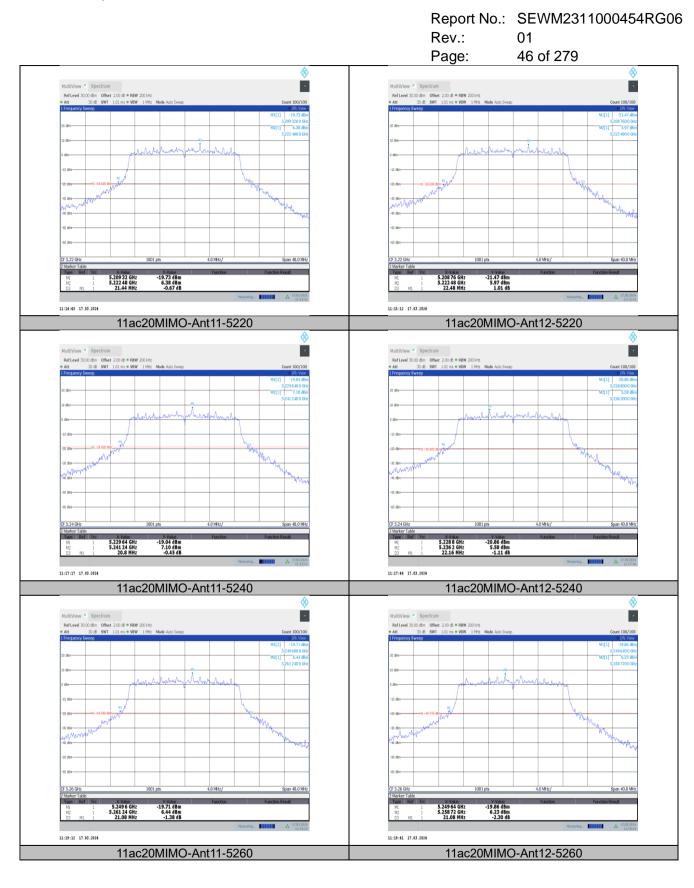
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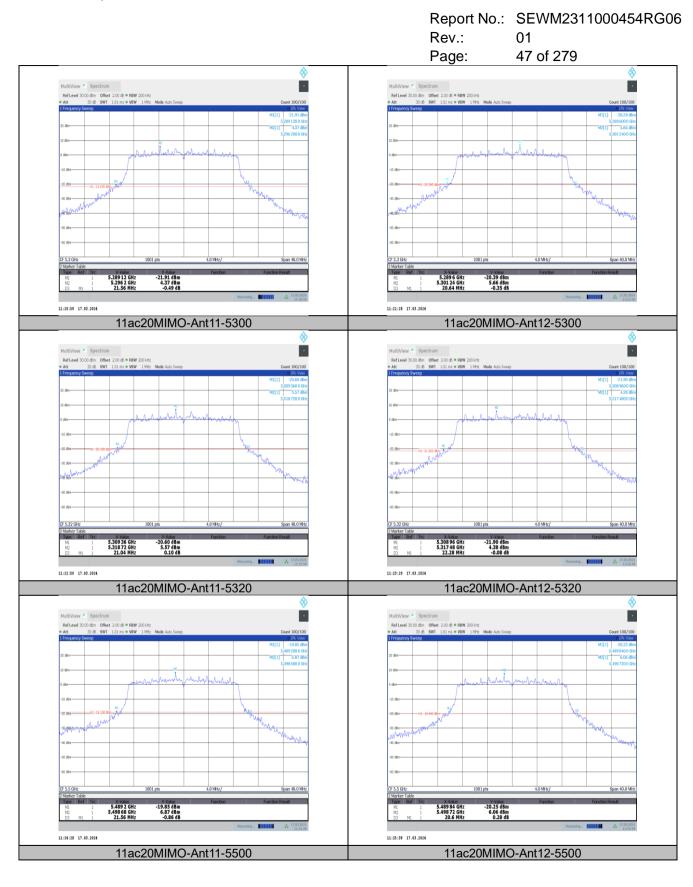
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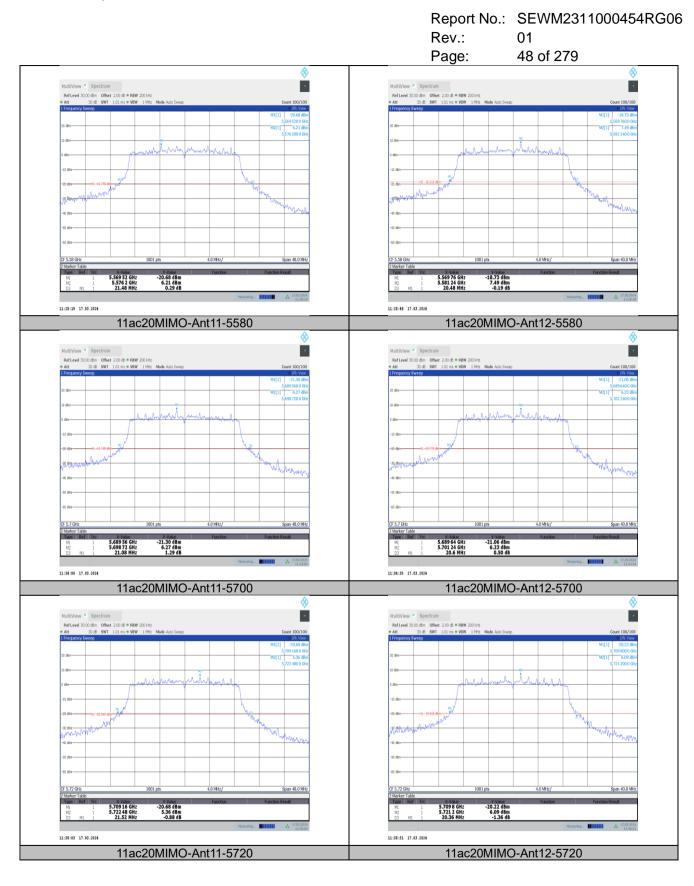
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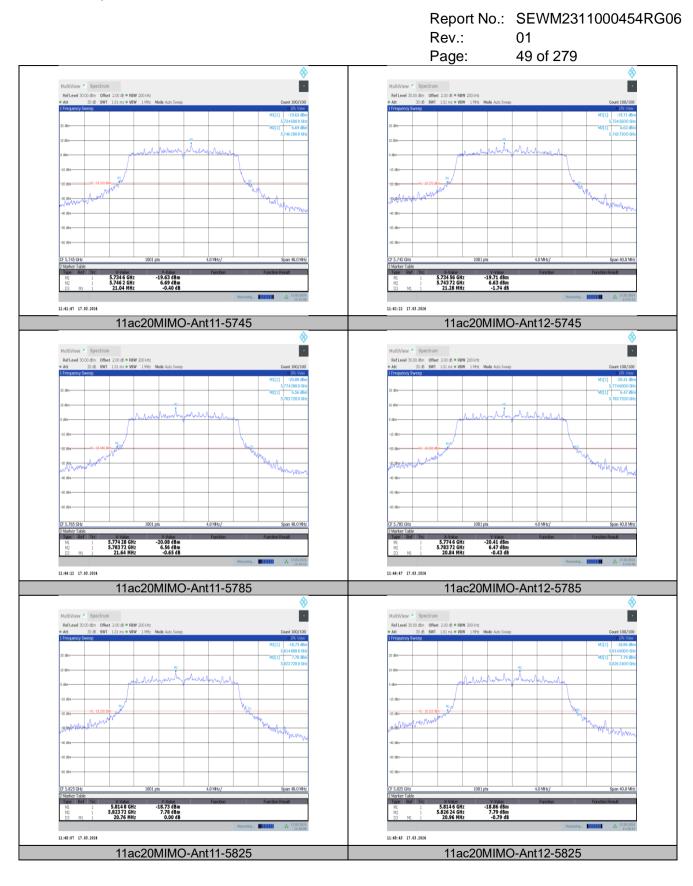
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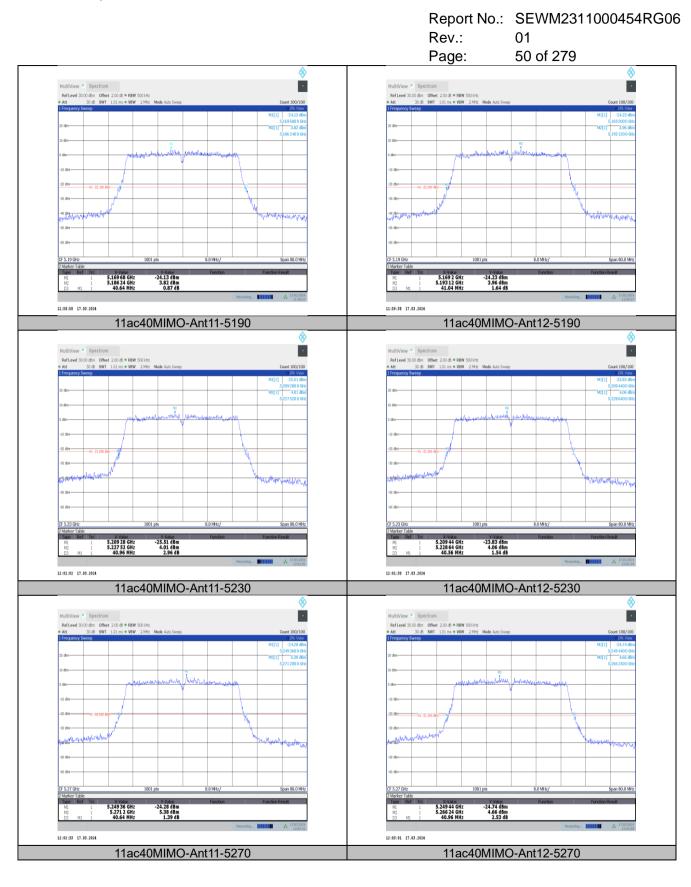
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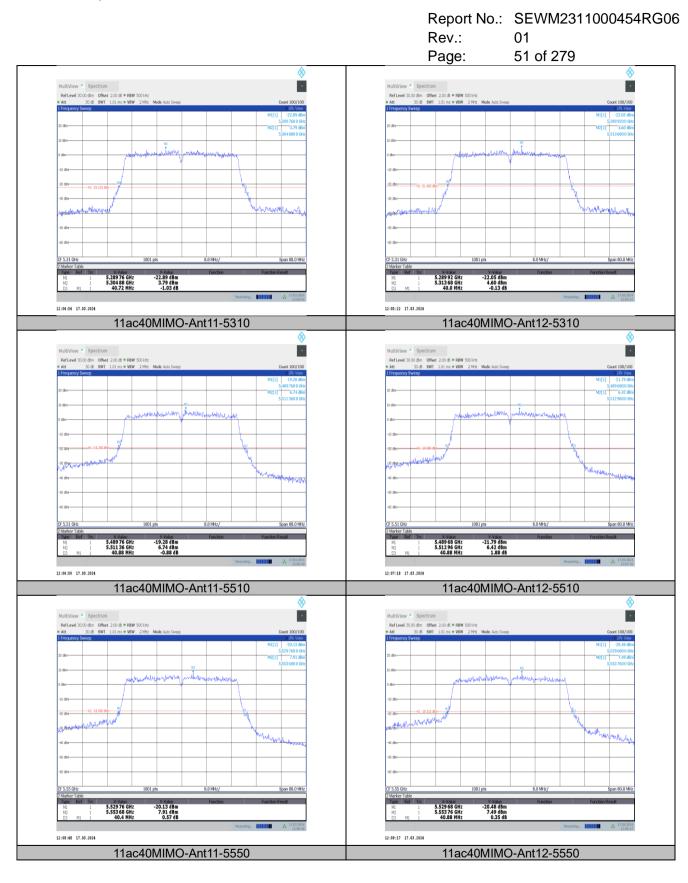
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