

Report No.: SEWM2306000193RG04

Rev.: 01

Page: 1 of 851

TEST REPORT

Application No.: SEWM2306000193RG
Applicant: MeiG Smart Technology Co., Ltd
Address of Applicant: 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen
Manufacturer: MeiG Smart Technology Co., Ltd
Address of Manufacturer: 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen
EUT Description: 5G CPE
Model No.: SRT838iPro
Trade Mark: MEIGLink
FCC ID: 2APJ4-SR838IPRO
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2023/06/08
Date of Test: 2023/06/08 to 2023/06/30
Date of Issue: 2023/06/30

Test Result :	PASS *
----------------------	---------------

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

Authorized Signature:

Well Wei

Well Wei
Wireless Laboratory Manager

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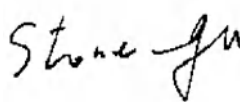
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/06/30		Original

Prepared By	
	(Tizzy Song) / Test Engineer
Checked By	
	(Stone Gu) / Reviewer



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2 Test Summary

Test Item	Band ^[1] J	FCC rules No.	Test Requirements	Test Result	Result	Lab ^[2] J
Antenna Requirement	--	15.203/15.407(a)	--	Clause 4.1	PASS	--
26dB Emission Bandwidth	Band I	15.407(a)(1)	No limit.	Clause 4.5	For Report Purpose	B
	Band II-A	15.407(a)(2)				
	Band II-C	15.407(a)(2)				
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS	B
99% Occupied Bandwidth	Band I	KDB 789033 D02§ D	No limit.	Clause 4.7	For Report Purpose	B
	Band II-A					
	Band II-C					
	Band III					
Duty Cycle	Band I Band II-A Band II-C Band III	--	No limit.	Clause 4.3	For Report Purpose	B
Maximum Conducted Output Power	Band I	15.407(a)(ii)	<1W	Clause 4.4	PASS	B
	Band II-A	15.407(a)(2)	<MIN{250mW,11dBm+10*lg(EBW)}			
	Band II-C					
	Band III	15.407(a)(3)	< 1W			
Maximum Power Spectral Density	Band I	15.407(a)(ii)	< 17dBm/MHz	Clause 4.8	PASS	B
	Band II-A	15.407(a)(2)	<11dBm/MHz			
	Band II-C					
	Band III	15.407(a)(3)	<30dBm/500KHz			
Radiated Spurious Emissions	Band I	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).	Clause 4.9	PASS	A
	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.		PASS	



			5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).			
	Band II-C	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS	
	Band III	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP) F≥1GHz & out-restricted:(PK) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS	
Restricted bands around fundamental frequency	Band I Band II-A Band II-C Band III	15.407(b) 15.205/15.209	---	Clause 4.10	PASS	A
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207	---	Clause 4.2	PASS	A
Frequency Stability	Band I Band II-A Band II-C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A	N/A
Note 1: Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz						





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Note 2:

Lab A SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Lab B SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.



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3 General Information

3.1 Details of Client

Applicant:	MeiG Smart Technology Co., Ltd
Address of Applicant:	2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen
Manufacturer:	MeiG Smart Technology Co., Ltd
Address of Manufacturer:	2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen

3.2 Test Location

Lab A:	
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:	Tizzy Song
Lab B:	
Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Qiang Zhang



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3.3 Test Facility

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

Lab A:

• **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

Lab B:

• **A2LA (Certificate No. 4854.01)**

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

• **FCC –Designation Number: CN1337**

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410



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3.4 General Description of EUT

EUT Description:	5G CPE	
Model No.:	SRT838iPro	
Trade Mark:	MEIGLink	
Hardware Version:	SRT838PRO_BOARD_V1.00_PCB	
Software Version:	SRT838iPro-SA_6.0.6_EQ100	
IMEI:	RF Conducted	860662054468646
	RSE & AC power line	860662053628190
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth
	802.11ax:	20 MHz / 40 MHz / 80 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)/ax(HE20)
	40MHz:	802.11n(HT40)/ac(VHT40)/ax(HE40)
	80MHz:	802.11ac(VHT80)/ax(HE80)
Antenna Type:	☐ External, ☒ Integrated	
Antenna Gain:	5150MHz to 5250MHz: 1.75dBi(Ant0); 1.88dBi(Ant1); 5250MHz to 5350MHz: 1.81dBi(Ant0); 1.27dBi(Ant1); 5470MHz to 5725MHz: 1.62dBi(Ant0); 1.59dBi(Ant1); 5725MHz to 5850MHz: 1.53dBi(Ant0); 1.95dBi(Ant1);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	☒ SISO	802.11a/n/ac/ax
	☒ MIMO	802.11n/ac/ax: 2Tx & 2Rx
	☒ Diversity	CDD:802.11a: 2Tx & 2Rx
TPC Function:	☒ Support, ☐ Not Support	
Use Conditions:	Indoor	
RF Cable:	1.5dB	



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Remark:

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

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

For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac/ax 80MHz	The Middle channel	5210

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac/ax 80MHz	The Middle channel	5290



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

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

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
TDWR Channel	120 ^[1]	5600	124 ^[1]	5620
	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, 802.11ac VHT20 and 802.11ax HE20.
2. The above Frequency and Channel were 802.11n HT40 , 802.11ac VHT40 and 802.11ax HE40.
3. The above Frequency and Channel were 802.11ac VHT80 and 802.11ax HE80.



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Test software:QRCT4.0

The test software was used to control EUT work in Continuous Tx mode, and select test channel.

802.11	Frequency	Power setting
11a CDD	5150-5250	17
	5250-5350	17
	5470-5725	17
	5725-5850	17
	5150-5250	18
11n20 MIMO	5250-5350	18
	5470-5725	18
	5725-5850	18
	5150-5250	13
11n40 MIMO	5250-5350	13
	5470-5725	13
	5725-5850	13
	5150-5250	20
11ac20 MIMO	5250-5350	18
	5470-5725	18
	5725-5850	20
	5150-5250	14
11ac40 MIMO	5250-5350	14
	5470-5725	14
	5725-5850	14
	5150-5250	15
11ac80 MIMO	5250-5350	15
	5470-5725	15
	5725-5850	15
	5150-5250	17
11ax2 0MIMO	5250-5350	17
	5470-5725	17
	5725-5850	17
	5150-5250	11.5
11ax40 MIMO	5250-5350	11.5
	5470-5725	11.5
	5725-5850	11.5
	5150-5250	14.5
11ax80 MIMO	5250-5350	14.5
	5470-5725	14.5
	5725-5850	14.5
	5150-5250	14.5



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	12
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

Description	Manufacturer	Model No.
Smart Phone	Nokia	TA-1390 (FCC ID: 2AJOTTA-1390)

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)
802.11ax (HE 20)	MCS0 (8 Mbps)	MCS0 (16 Mbps)
802.11ax (HE 40)	MCS0 (16 Mbps)	MCS0 (32 Mbps)
802.11ax (HE 80)	MCS0 (34 Mbps)	MCS0 (68 Mbps)



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
The antenna is Integrated Antenna and no consideration of replacement. The best case gain of the antenna is 5150MHz to 5250MHz: 1.75dBi(Ant0); 1.88dBi(Ant1);* 5250MHz to 5350MHz: 1.81dBi(Ant0); 1.27dBi(Ant1);* 5470MHz to 5725MHz: 1.62dBi(Ant0); 1.59dBi(Ant1);* 5725MHz to 5850MHz: 1.53dBi(Ant0); 1.95dBi(Ant1);* <i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i> <i>Remark:</i> <i>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.</i>	



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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 $N_{ANT} \leq 4$;

For power, the directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} 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:

Transmit signals are completely uncorrelated						
Operation Frequency	ANT Gain1 (dBi)	ANT Gain2 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150MHz to 5250MHz	1.75	1.88	1.88	4.83	0	0
5250MHz to 5350MHz	1.81	1.27	1.81	4.55	0	0
5470MHz to 5725MHz	1.62	1.59	1.62	4.62	0	0
5725MHz to 5850MHz	1.53	1.95	1.95	4.75	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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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.207		
Test Method:	ANSI C63.10-2020 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		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 50Ω/50μH + 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 C63.10-2020 on conducted measurement.		



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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Refer to section 3.7 for details. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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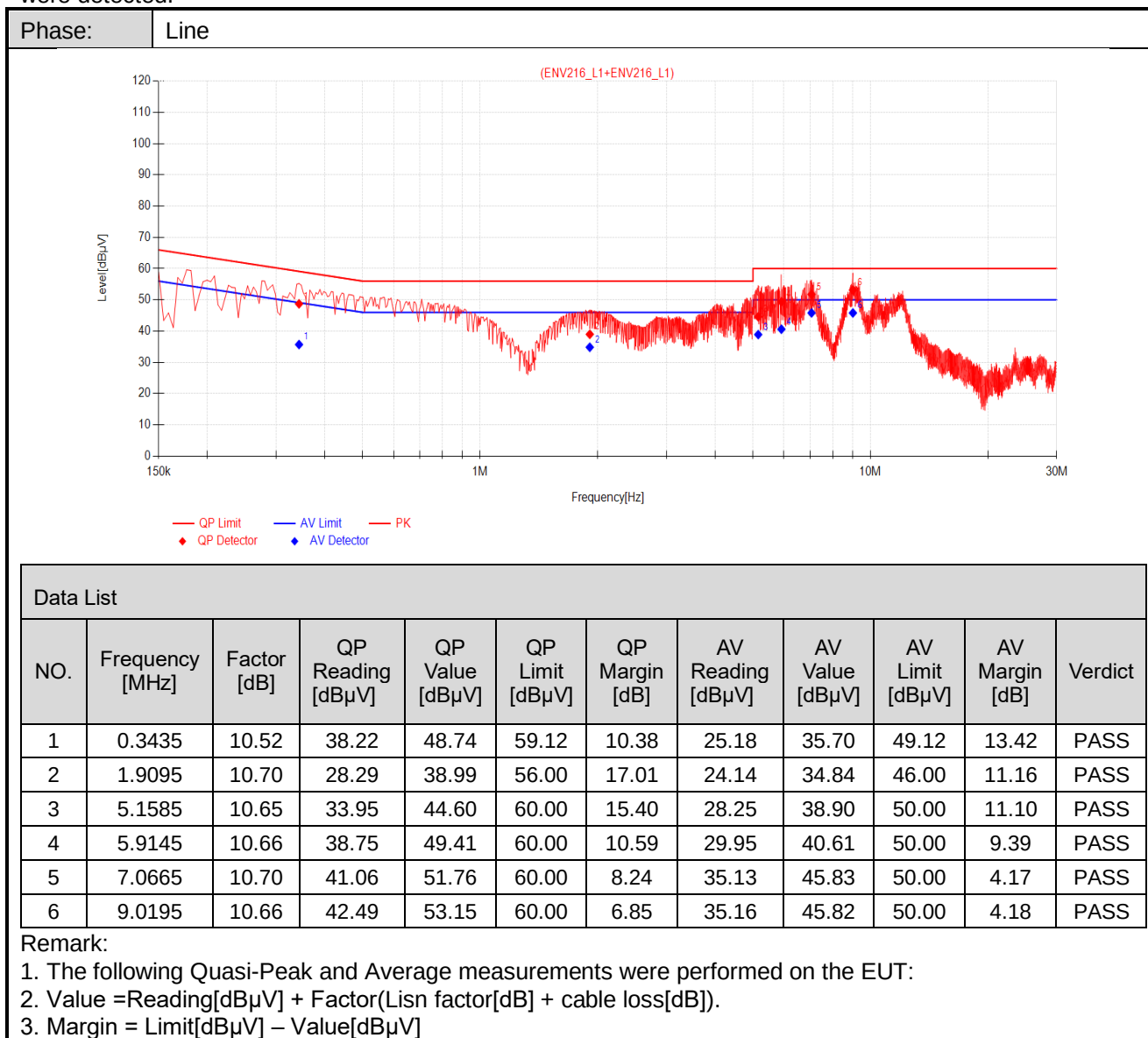
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Measurement Data

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.

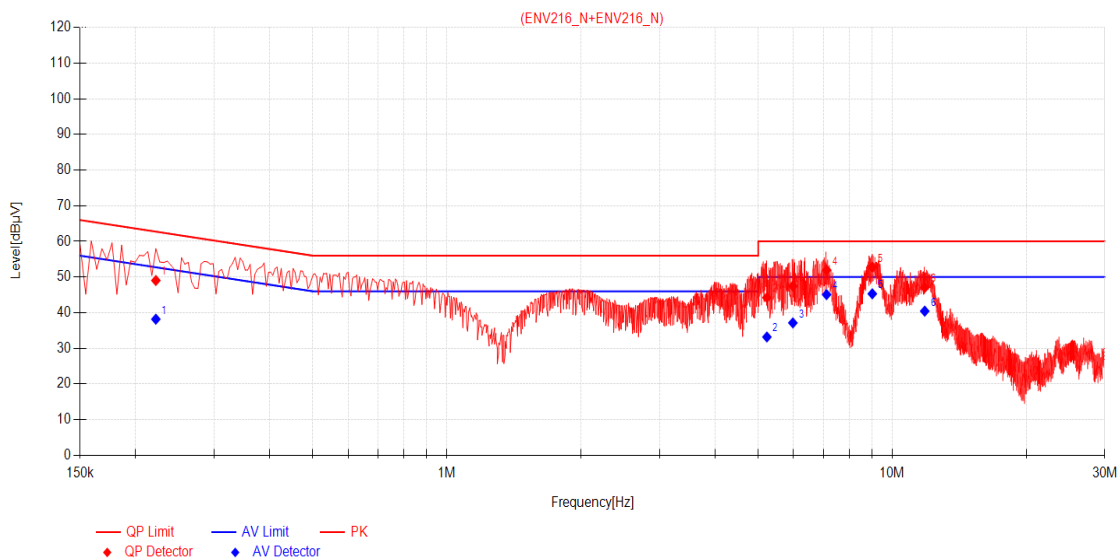


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Phase: Neutral



Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2220	10.69	38.35	49.04	62.74	13.70	27.49	38.18	52.74	14.56	PASS
2	5.2305	10.63	33.61	44.24	60.00	15.76	22.56	33.19	50.00	16.81	PASS
3	5.9820	10.58	36.89	47.47	60.00	12.53	26.57	37.15	50.00	12.85	PASS
4	7.1205	10.52	41.44	51.96	60.00	8.04	34.55	45.07	50.00	4.93	PASS
5	9.0195	10.62	42.16	52.78	60.00	7.22	34.68	45.30	50.00	4.70	PASS
6	11.8275	10.64	36.42	47.06	60.00	12.94	29.80	40.44	50.00	9.56	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBμV] + Factor(Lin factor[dB] + cable loss[dB]).
3. Margin = Limit[dBμV] – Value[dBμV]



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4.3 Duty Cycle

The detailed test data see: **Appendix**



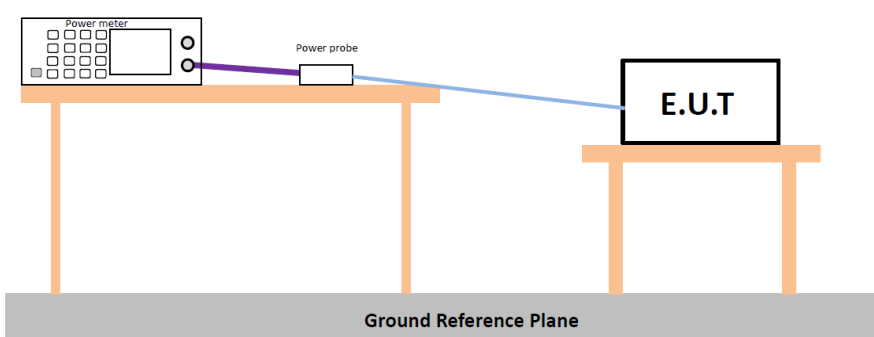
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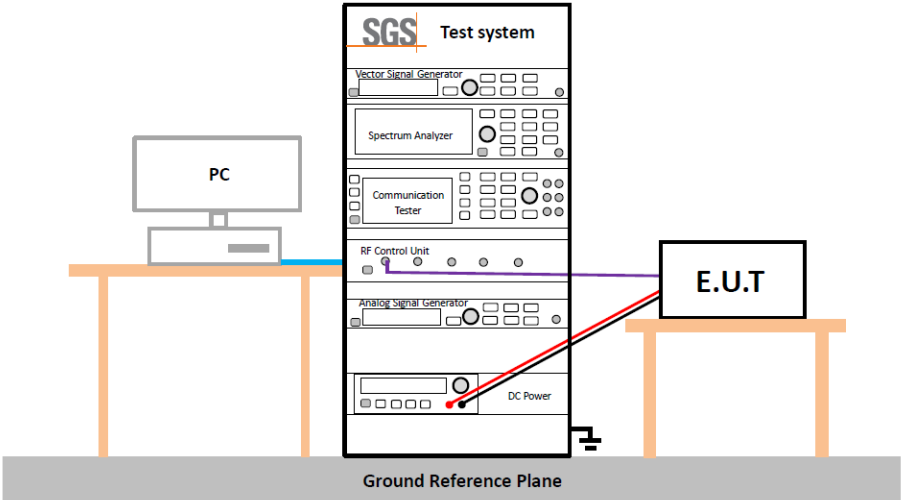
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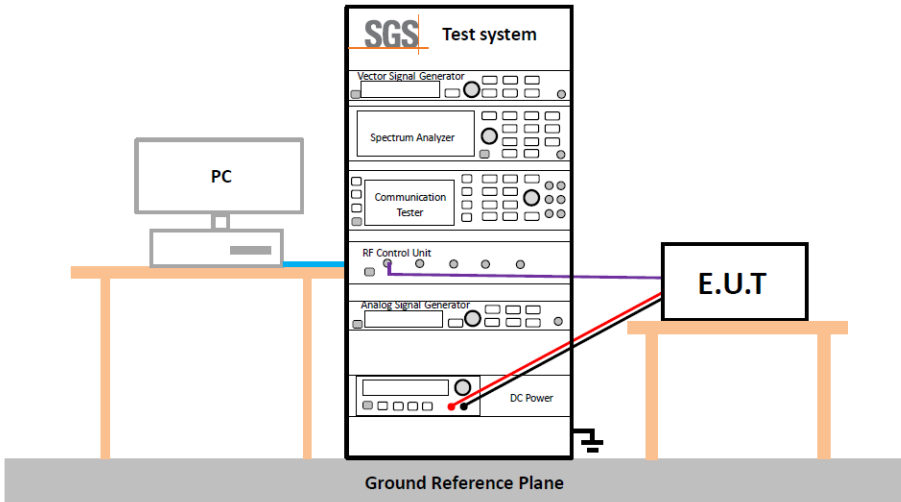
4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10-2020 Section 12.4.3.2	
Test Setup:	 * 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 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 1W(30dBm)
	5250-5350MHz	The lesser of 250mW(23.98dBm) or 11+ 10logB
	5470-5725MHz	The lesser of 250mW(23.98dBm) or 11+ 10logB
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	
The detailed test data see: Appendix		

4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C
Test Method:	ANSI C63.10-2020 Section 12.5.2
Test Setup:	
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	

4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10-2020 Section 12.5.1	
Test Setup:		
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.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At lease 500kHz
Test Results:	Pass	
The detailed test data see: Appendix		



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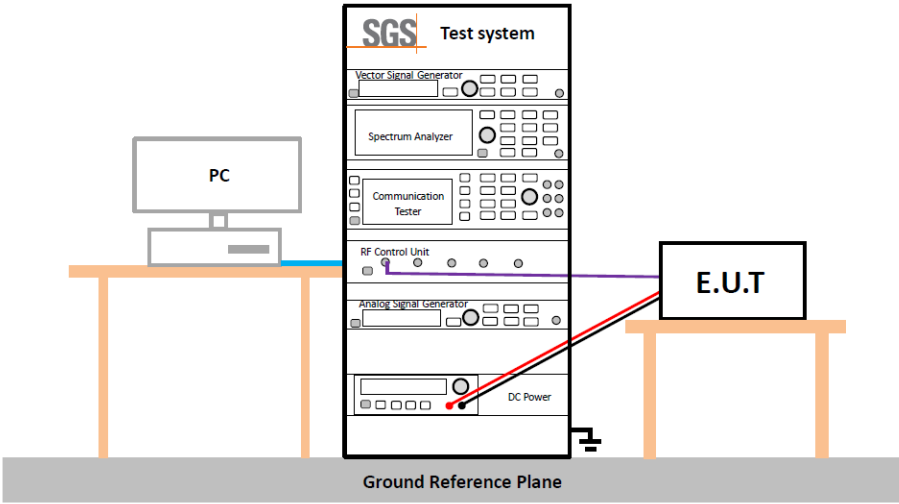
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4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10-2020 Section 12.5.3
Test Setup:	
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	



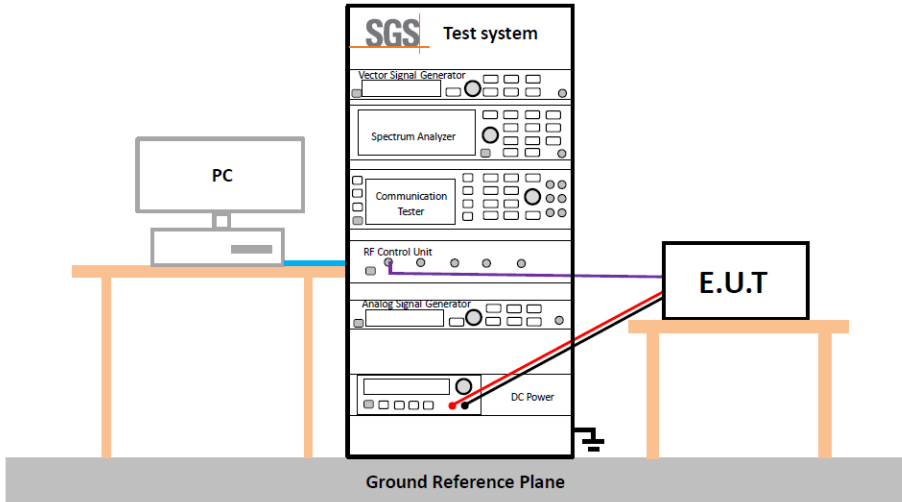
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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10-2020 Section 12.6 KDB 789033 D02 v02r01, Section F.	
Test Setup:	 The diagram illustrates the test setup. On the left, a PC is connected via a blue cable to the 'Test system' (SGS). The 'Test system' is a vertical stack of modules: Vector Signal Generator, Spectrum Analyzer, Communication Tester, RF Control Unit, Analog Signal Generator, and DC Power. The RF Control Unit is connected to the E.U.T. (Equipment Under Test) via a red cable. The DC Power module is connected to the E.U.T. via a black cable. The entire setup is on a '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:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 17dBm/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		

4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)
Test Method:	ANSI C63.10-2020 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

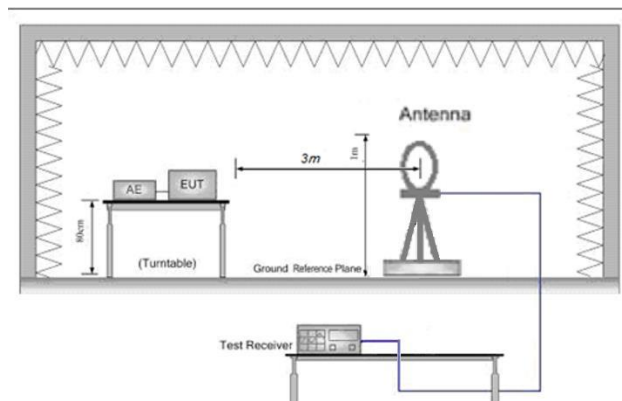


Figure 1. 9kHz to 30MHz

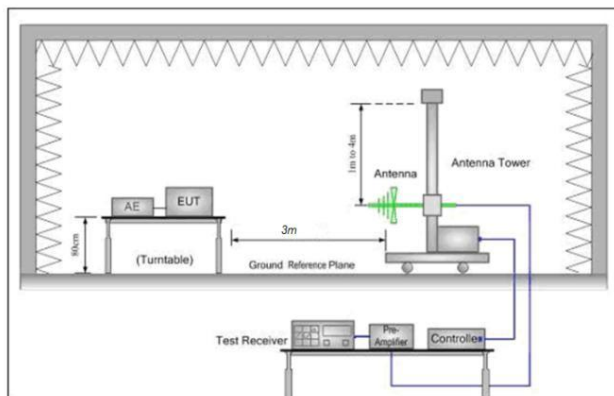


Figure 1. 30MHz to 1GHz

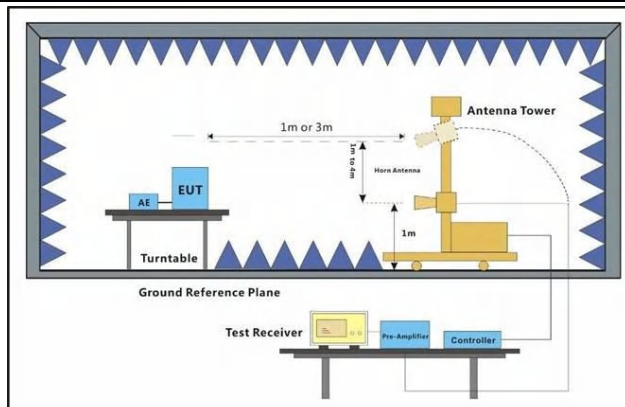


Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. 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 antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

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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. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. 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. l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.
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 $\geq 3 \text{ MHz}$ • 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 $\geq 1/T$, when duty cycle is less than 98 percent where T is 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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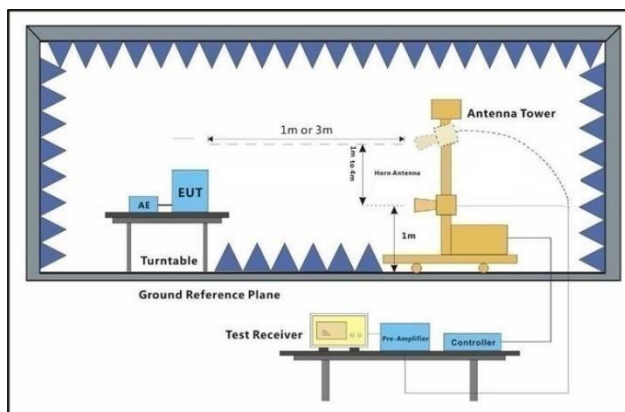
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)		
Test Method:	ANSI C63.10-2020 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
		74.0	Peak Value

Test Setup:



Test Procedure:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
- Test the EUT in the outermost channels.
- The radiation measurements are performed in X, Y, Z axis positioning for

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	Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is 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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5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A		
No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.90dB (150kHz to 30MHz)
2	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.75dB (1GHz to 18GHz)
		± 4.77dB (Above 18GHz)
Remark: 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.		

Lab B		
No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$ GHz
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 0.2\%$
4	RF conducted power	$\pm 0.21\text{dB}$
5	RF power density	$\pm 2.84\text{dB}$
6	Conducted Spurious emissions	$\pm 0.75\text{dB}$
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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

Lab B RF Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
MXA signal analyzer	Agilent	N9020A	XAW01-06-07	2023/02/16	2024/02/15
MXG vector signal Generator	Agilent	N5182B	XAW01-07-16	2023/02/16	2024/02/15
Measurement Software	Tonscend	JS1120-3 (3.2.18)	XAW02-14-01	NCR	NCR
RF control unit	Tonscend	JS0806-2	XAW03-37-01	NCR	NCR
Power Meter	Anritsu	ML2495A	XAW01-25-03	2022/09/14	2023/09/13
Power Supply	Agilent	66311b	XAW01-17-01	2023/02/16	2024/02/15
Temperature and humidity meter	MingGao	T809	XAW01-01-16	2022/09/18	2023/09/17

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



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Lab A RSE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2022/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	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	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	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 4.0.0.0	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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Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a-CDD	Ant0	5180	19.160	5170.160	5189.320	For Report Purpose
	Ant1	5180	19.280	5170.320	5189.600	
	Ant0	5200	19.720	5189.800	5209.520	
	Ant1	5200	19.200	5190.480	5209.680	
	Ant0	5240	19.680	5229.880	5249.560	
	Ant1	5240	19.600	5229.960	5249.560	
	Ant0	5260	19.160	5250.400	5269.560	
	Ant1	5260	19.040	5250.600	5269.640	
	Ant0	5280	19.320	5270.160	5289.480	
	Ant1	5280	19.080	5270.520	5289.600	
	Ant0	5320	19.080	5310.280	5329.360	
	Ant1	5320	19.000	5310.480	5329.480	
	Ant0	5500	18.960	5490.400	5509.360	
	Ant1	5500	18.960	5490.560	5509.520	
	Ant0	5580	19.480	5570.120	5589.600	
	Ant1	5580	19.400	5570.360	5589.760	
	Ant0	5700	19.000	5690.360	5709.360	
	Ant1	5700	19.240	5690.480	5709.720	
	Ant0	5745	19.080	5735.200	5754.280	
	Ant1	5745	18.960	5735.480	5754.440	
	Ant0	5785	18.760	5775.600	5794.360	
	Ant1	5785	19.000	5775.600	5794.600	
	Ant0	5825	19.760	5814.840	5834.600	
	Ant1	5825	18.920	5815.640	5834.560	
11n20MIMO	Ant0	5180	19.920	5169.920	5189.840	
	Ant1	5180	20.080	5169.920	5190.000	
	Ant0	5200	20.560	5189.640	5210.200	
	Ant1	5200	20.680	5189.720	5210.400	
	Ant0	5240	20.240	5229.800	5250.040	
	Ant1	5240	20.040	5229.920	5249.960	
	Ant0	5260	20.520	5249.720	5270.240	
	Ant1	5260	20.000	5250.160	5270.160	
	Ant0	5280	20.120	5269.920	5290.040	
	Ant1	5280	20.240	5269.960	5290.200	
	Ant0	5320	20.240	5310.200	5330.440	
	Ant1	5320	20.040	5310.120	5330.160	
	Ant0	5500	20.520	5489.840	5510.360	
	Ant1	5500	20.320	5489.960	5510.280	
	Ant0	5580	20.160	5569.960	5590.120	
	Ant1	5580	20.600	5569.720	5590.320	
	Ant0	5700	20.560	5689.800	5710.360	
	Ant1	5700	20.200	5689.920	5710.120	
	Ant0	5745	20.200	5734.840	5755.040	
	Ant1	5745	20.160	5734.920	5755.080	
	Ant0	5785	20.640	5774.520	5795.160	
	Ant1	5785	20.240	5774.880	5795.120	
	Ant0	5825	20.240	5815.000	5835.240	
	Ant1	5825	20.120	5815.000	5835.120	
11n40MIMO	Ant0	5190	40.000	5170.000	5210.000	
	Ant1	5190	39.360	5170.320	5209.680	
	Ant0	5230	39.680	5210.320	5250.000	



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	Ant1	5230	39.680	5210.320	5250.000
	Ant0	5270	39.440	5250.320	5289.760
	Ant1	5270	39.120	5250.560	5289.680
	Ant0	5310	39.440	5290.480	5329.920
	Ant1	5310	39.520	5290.400	5329.920
	Ant0	5510	39.520	5490.080	5529.600
	Ant1	5510	39.200	5490.400	5529.600
	Ant0	5550	39.680	5530.160	5569.840
	Ant1	5550	39.440	5530.320	5569.760
	Ant0	5670	40.320	5650.000	5690.320
	Ant1	5670	39.840	5650.160	5690.000
	Ant0	5755	40.640	5734.360	5775.000
	Ant1	5755	39.200	5735.480	5774.680
	Ant0	5795	39.840	5775.160	5815.000
	Ant1	5795	39.040	5775.640	5814.680
11ac20MIMO	Ant0	5180	20.280	5169.800	5190.080
	Ant1	5180	20.080	5169.920	5190.000
	Ant0	5200	20.520	5189.880	5210.400
	Ant1	5200	20.120	5189.920	5210.040
	Ant0	5240	20.320	5229.800	5250.120
	Ant1	5240	20.640	5229.720	5250.360
	Ant0	5260	20.640	5250.120	5270.760
	Ant1	5260	20.360	5249.960	5270.320
	Ant0	5280	20.040	5269.920	5289.960
	Ant1	5280	20.400	5269.920	5290.320
	Ant0	5320	20.000	5310.120	5330.120
	Ant1	5320	20.320	5309.960	5330.280
	Ant0	5500	20.120	5490.000	5510.120
	Ant1	5500	20.280	5489.960	5510.240
	Ant0	5580	20.040	5570.080	5590.120
	Ant1	5580	20.160	5570.000	5590.160
	Ant0	5700	20.360	5689.800	5710.160
	Ant1	5700	20.440	5689.760	5710.200
	Ant0	5745	20.600	5734.760	5755.360
	Ant1	5745	20.120	5735.000	5755.120
	Ant0	5785	21.040	5774.280	5795.320
	Ant1	5785	20.400	5774.880	5795.280
	Ant0	5825	20.880	5814.680	5835.560
	Ant1	5825	20.320	5815.080	5835.400
11ac40MIMO	Ant0	5190	40.000	5170.160	5210.160
	Ant1	5190	39.360	5170.480	5209.840
	Ant0	5230	39.920	5209.840	5249.760
	Ant1	5230	39.440	5210.560	5250.000
	Ant0	5270	39.040	5250.480	5289.520
	Ant1	5270	39.360	5250.480	5289.840
	Ant0	5310	39.360	5290.400	5329.760
	Ant1	5310	39.120	5290.640	5329.760
	Ant0	5510	39.440	5490.320	5529.760
	Ant1	5510	39.360	5490.480	5529.840
	Ant0	5550	39.760	5530.240	5570.000
	Ant1	5550	39.440	5530.320	5569.760
	Ant0	5670	39.600	5650.080	5689.680
	Ant1	5670	40.000	5650.080	5690.080
	Ant0	5755	40.160	5734.680	5774.840
	Ant1	5755	39.600	5735.080	5774.680
	Ant0	5795	40.080	5775.000	5815.080
	Ant1	5795	39.520	5775.320	5814.840



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11ac80MIMO	Ant0	5210	82.080	5168.720	5250.800
	Ant1	5210	80.960	5169.680	5250.640
	Ant0	5290	81.920	5249.360	5331.280
	Ant1	5290	80.800	5249.680	5330.480
	Ant0	5530	81.280	5489.360	5570.640
	Ant1	5530	82.400	5488.720	5571.120
	Ant0	5610	81.600	5569.840	5651.440
	Ant1	5610	82.240	5569.040	5651.280
	Ant0	5775	81.600	5734.360	5815.960
	Ant1	5775	81.760	5734.040	5815.800
11ax20MIMO	Ant0	5180	20.760	5169.760	5190.520
	Ant1	5180	20.960	5169.560	5190.520
	Ant0	5200	21.520	5189.040	5210.560
	Ant1	5200	21.040	5189.440	5210.480
	Ant0	5240	20.840	5229.440	5250.280
	Ant1	5240	20.800	5229.480	5250.280
	Ant0	5260	21.720	5249.440	5271.160
	Ant1	5260	20.920	5249.760	5270.680
	Ant0	5280	21.000	5269.360	5290.360
	Ant1	5280	20.880	5269.480	5290.360
	Ant0	5320	20.880	5309.600	5330.480
	Ant1	5320	20.760	5309.680	5330.440
	Ant0	5500	21.080	5489.440	5510.520
	Ant1	5500	20.840	5489.560	5510.400
	Ant0	5580	21.120	5569.520	5590.640
	Ant1	5580	21.080	5569.600	5590.680
	Ant0	5700	20.760	5689.520	5710.280
	Ant1	5700	20.720	5689.760	5710.480
	Ant0	5745	21.080	5734.400	5755.480
	Ant1	5745	20.920	5734.520	5755.440
	Ant0	5785	20.560	5774.840	5795.400
	Ant1	5785	20.760	5774.680	5795.440
	Ant0	5825	20.920	5814.560	5835.480
	Ant1	5825	20.840	5814.600	5835.440
11ax40MIMO	Ant0	5190	40.080	5169.760	5209.840
	Ant1	5190	40.400	5169.840	5210.240
	Ant0	5230	39.760	5210.240	5250.000
	Ant1	5230	40.560	5209.600	5250.160
	Ant0	5270	40.240	5249.920	5290.160
	Ant1	5270	40.080	5250.080	5290.160
	Ant0	5310	40.240	5290.080	5330.320
	Ant1	5310	40.240	5289.920	5330.160
	Ant0	5510	40.480	5489.840	5530.320
	Ant1	5510	40.080	5489.920	5530.000
	Ant0	5550	40.160	5529.920	5570.080
	Ant1	5550	40.000	5530.000	5570.000
	Ant0	5670	40.560	5649.680	5690.240
	Ant1	5670	40.320	5649.920	5690.240
	Ant0	5755	40.000	5734.840	5774.840
	Ant1	5755	40.000	5735.000	5775.000
	Ant0	5795	40.160	5775.000	5815.160
	Ant1	5795	39.840	5775.240	5815.080
11ax80MIMO	Ant0	5210	82.080	5168.720	5250.800
	Ant1	5210	82.240	5168.880	5251.120
	Ant0	5290	80.960	5249.680	5330.640
	Ant1	5290	81.120	5249.680	5330.800
	Ant0	5530	81.600	5489.040	5570.640



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	Ant1	5530	81.280	5489.200	5570.480	
	Ant0	5610	82.400	5569.040	5651.440	
	Ant1	5610	81.920	5569.200	5651.120	
	Ant0	5775	81.760	5733.880	5815.640	
	Ant1	5775	82.560	5733.560	5816.120	



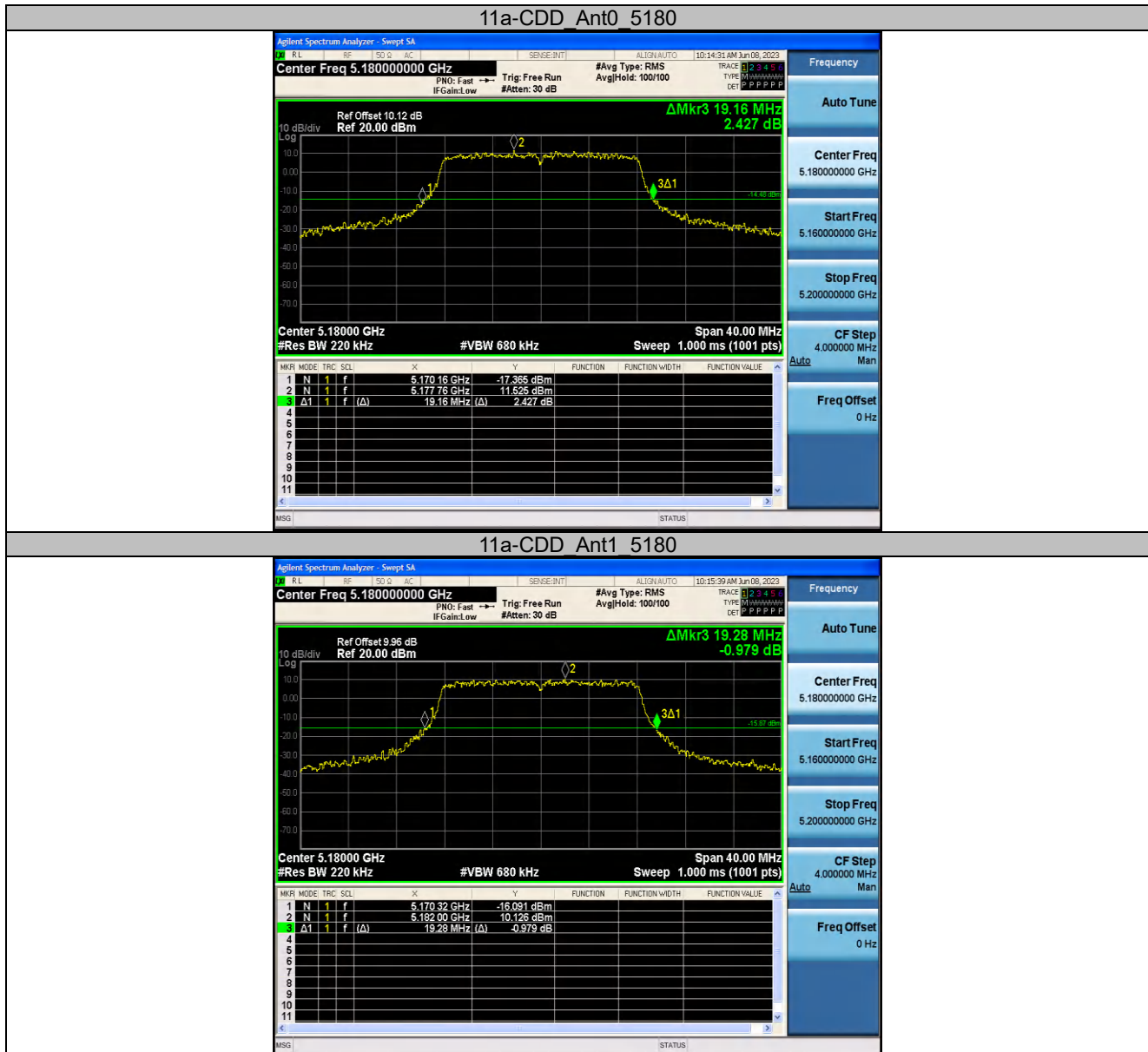
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Test Graphs



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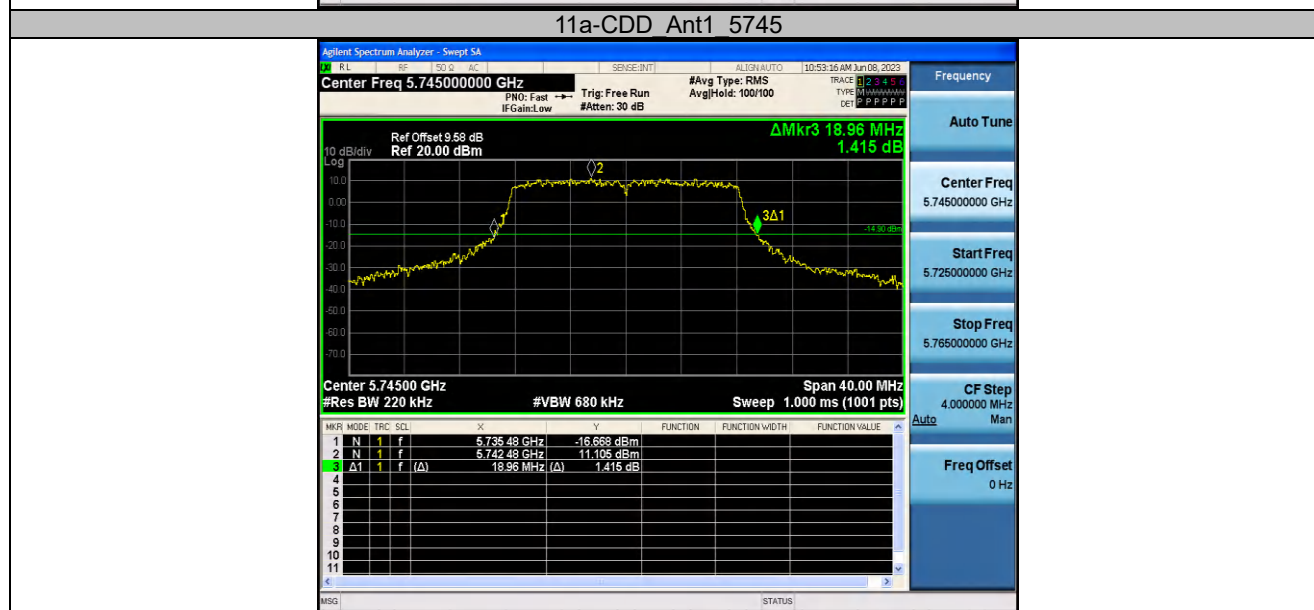
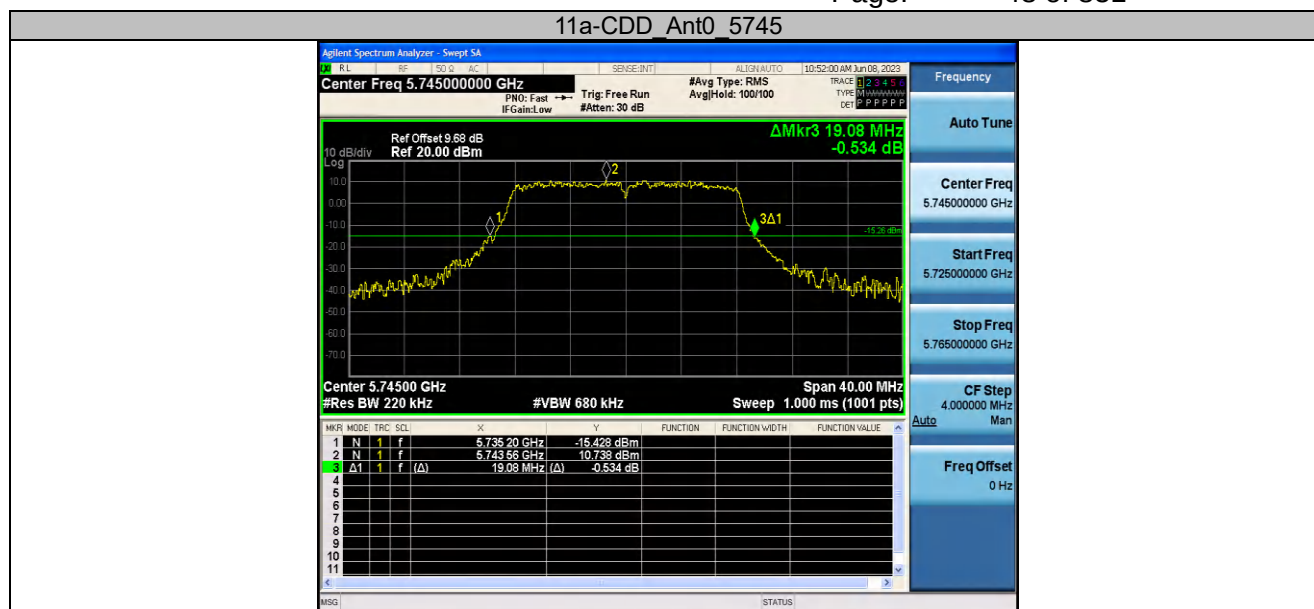
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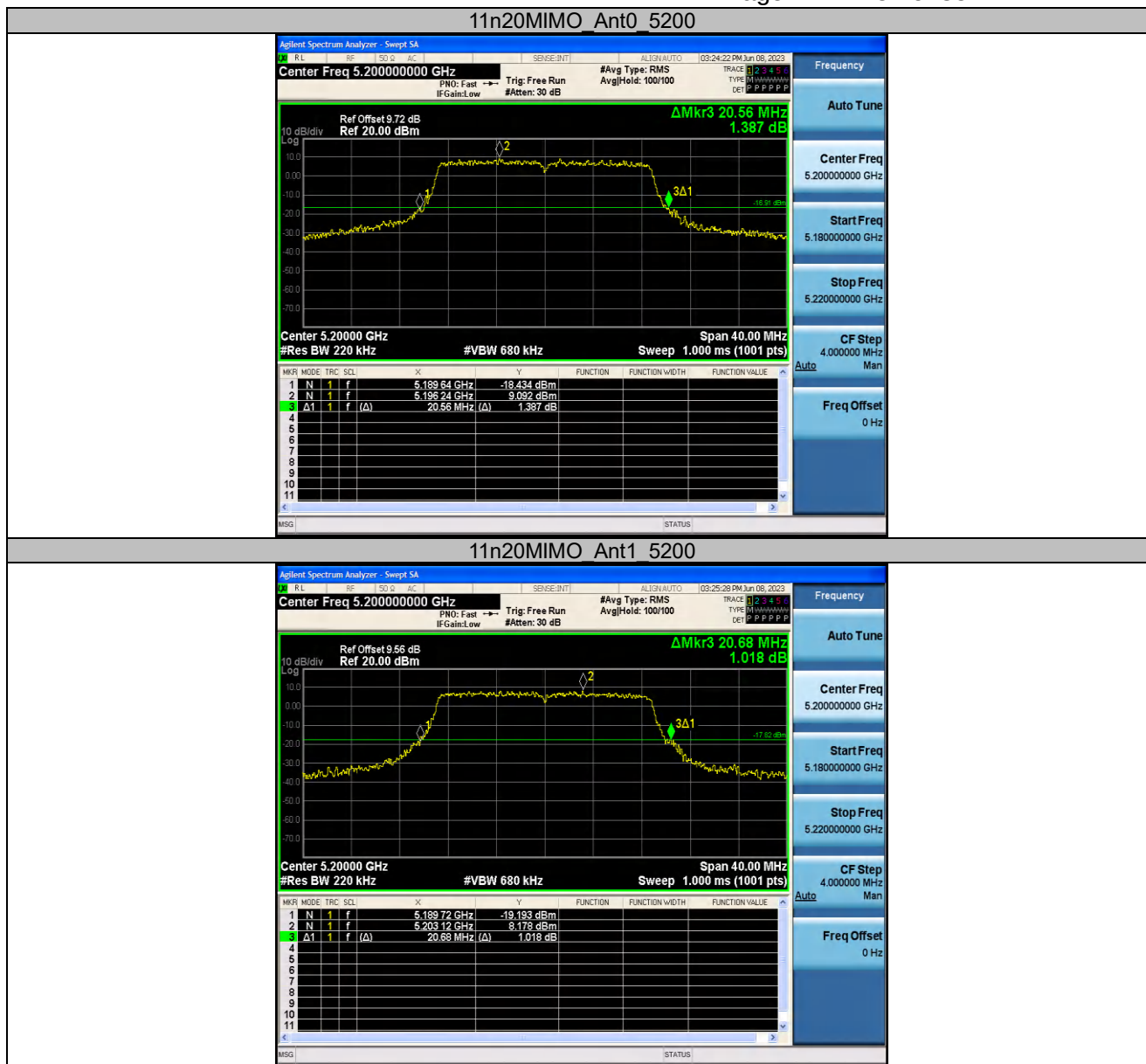
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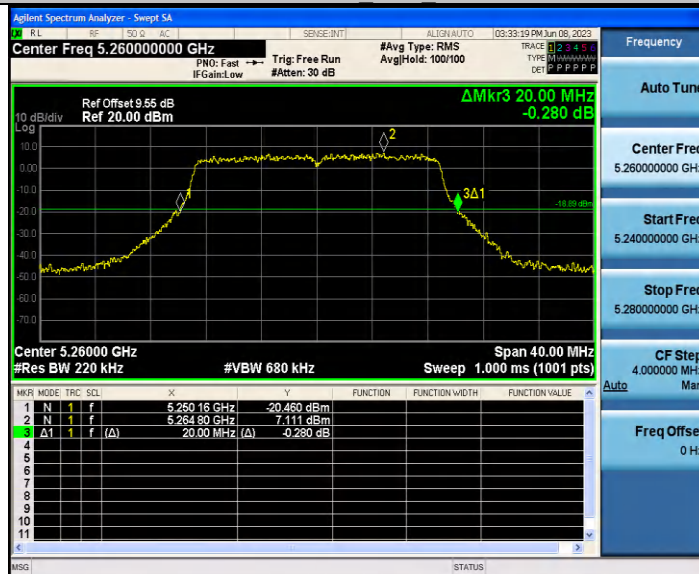
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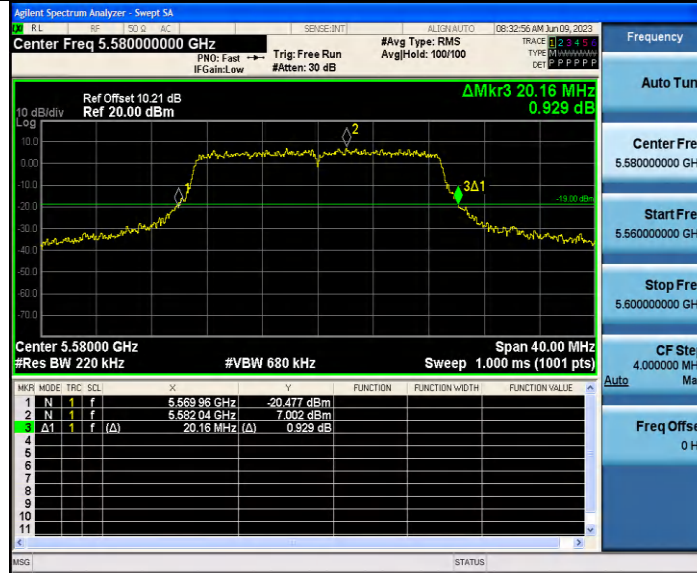
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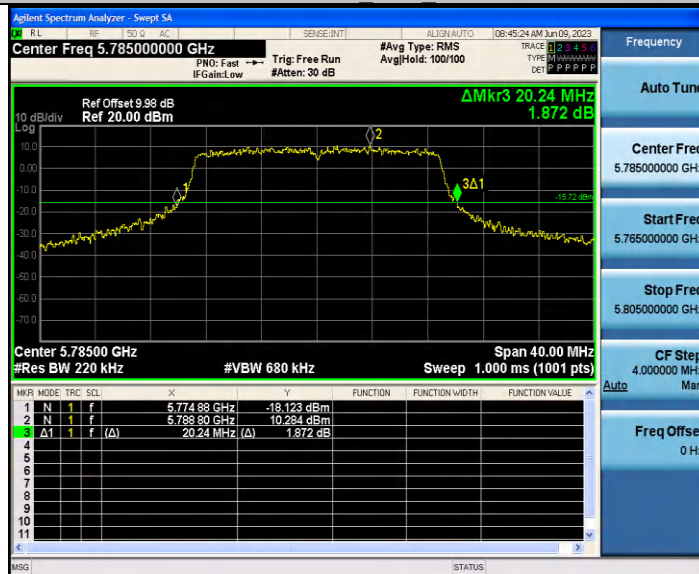
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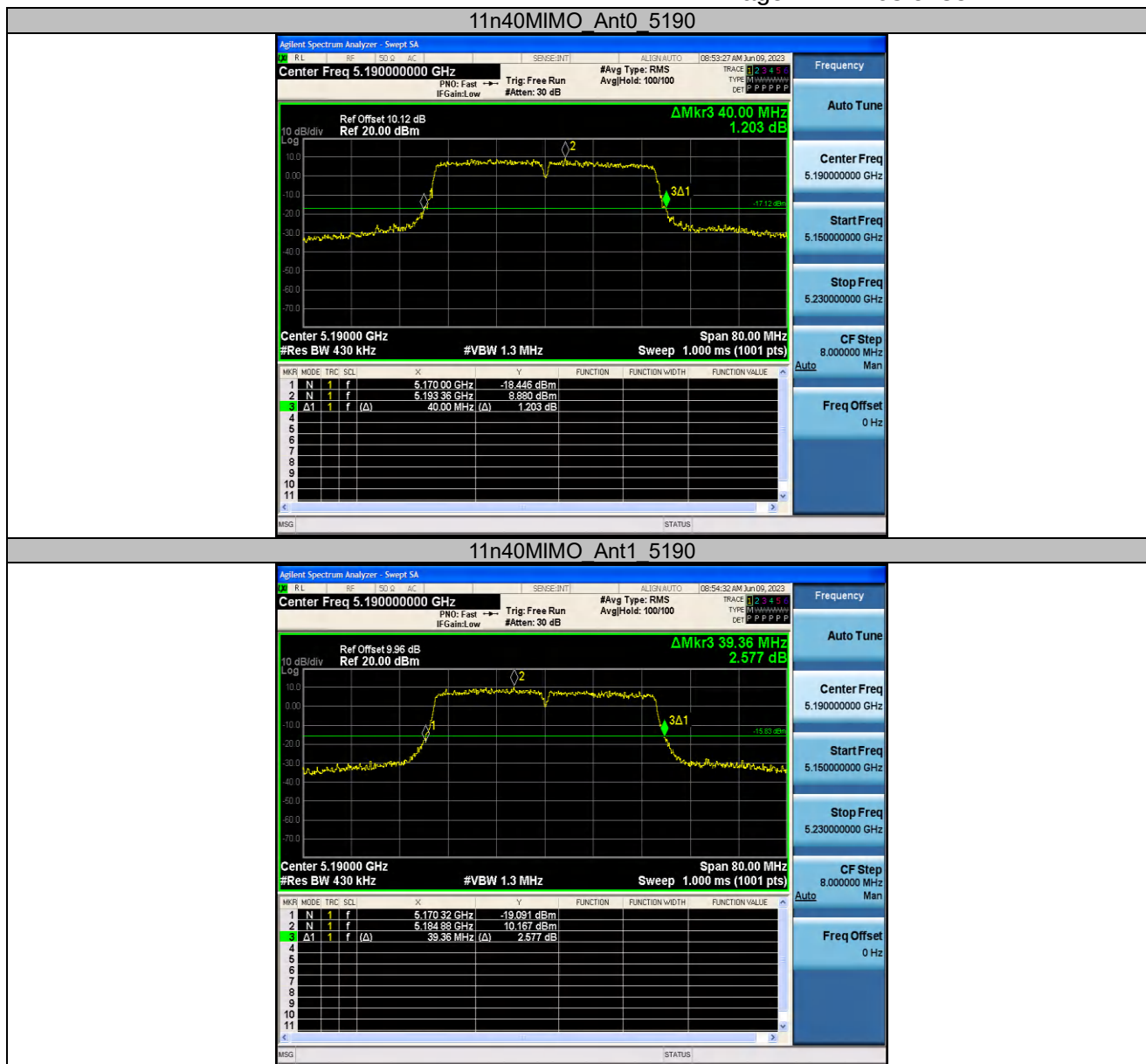
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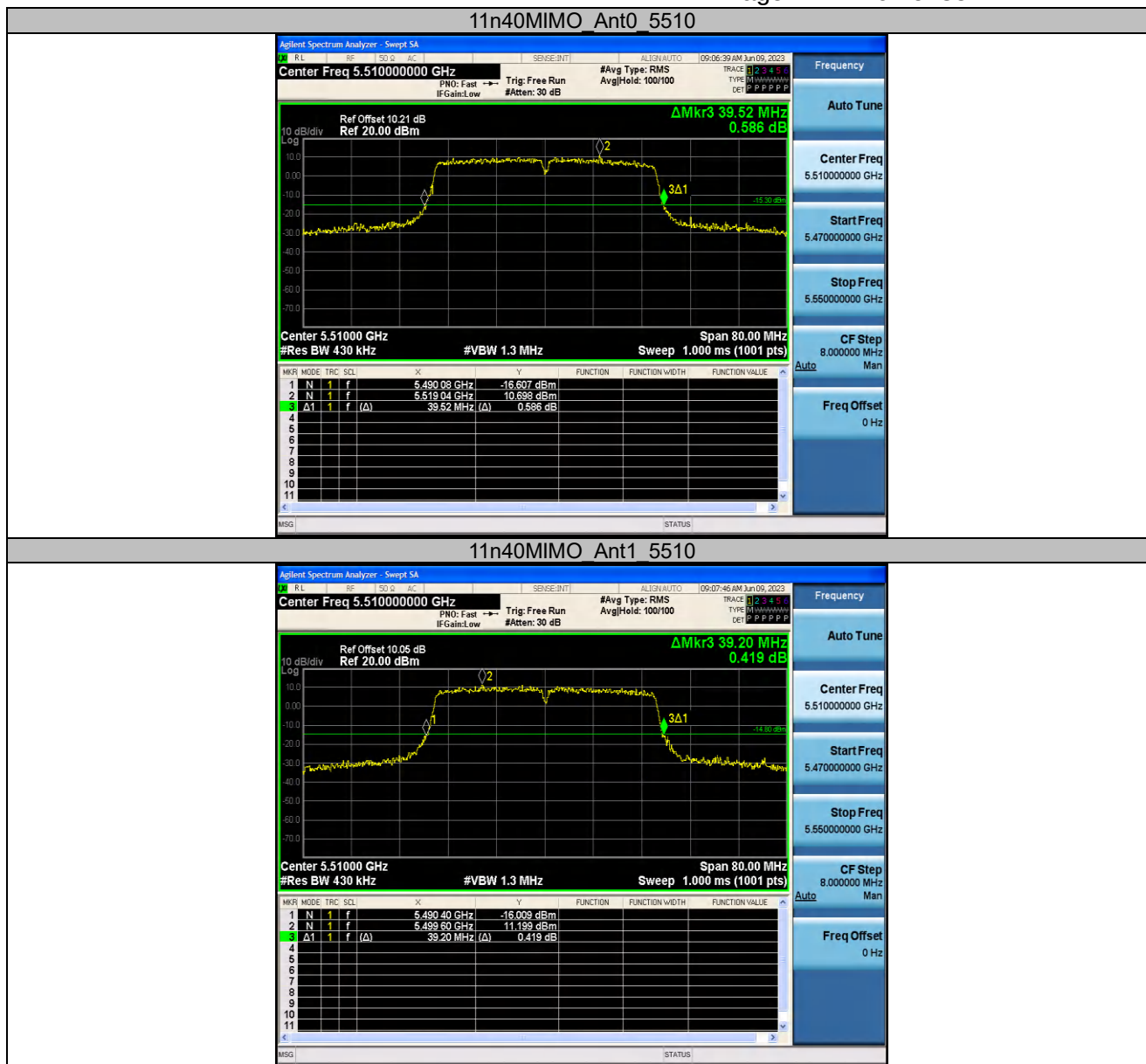
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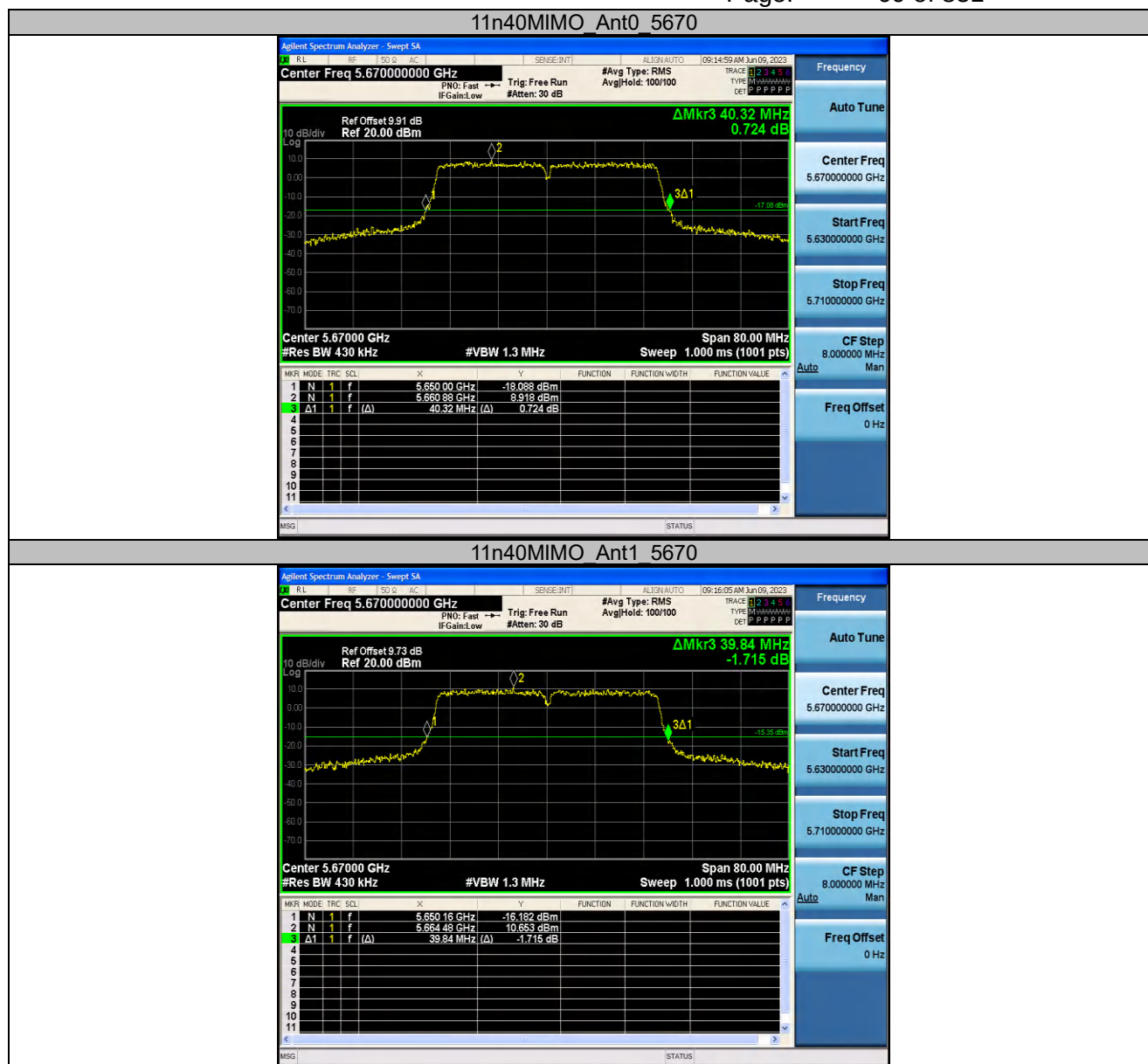
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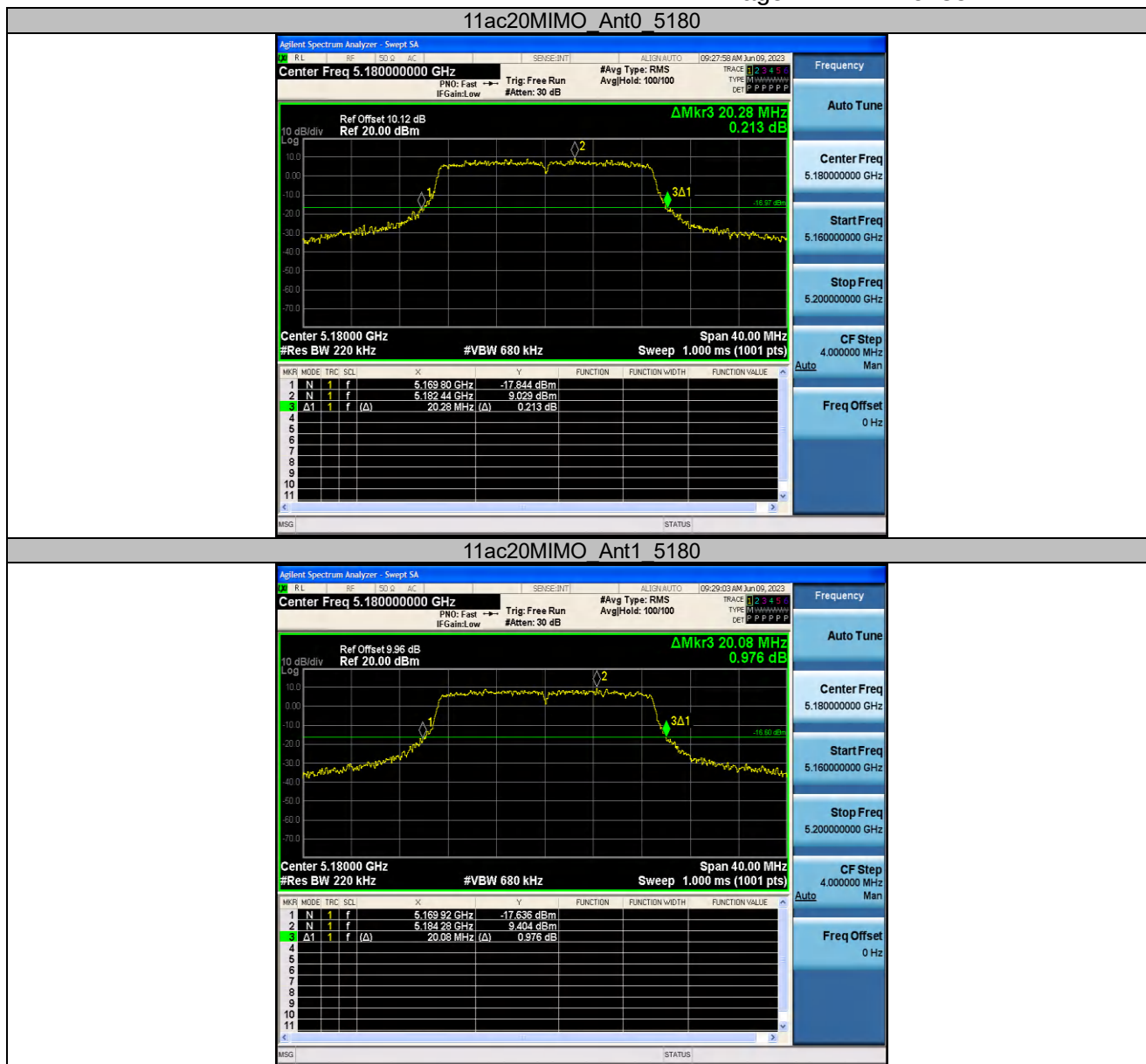
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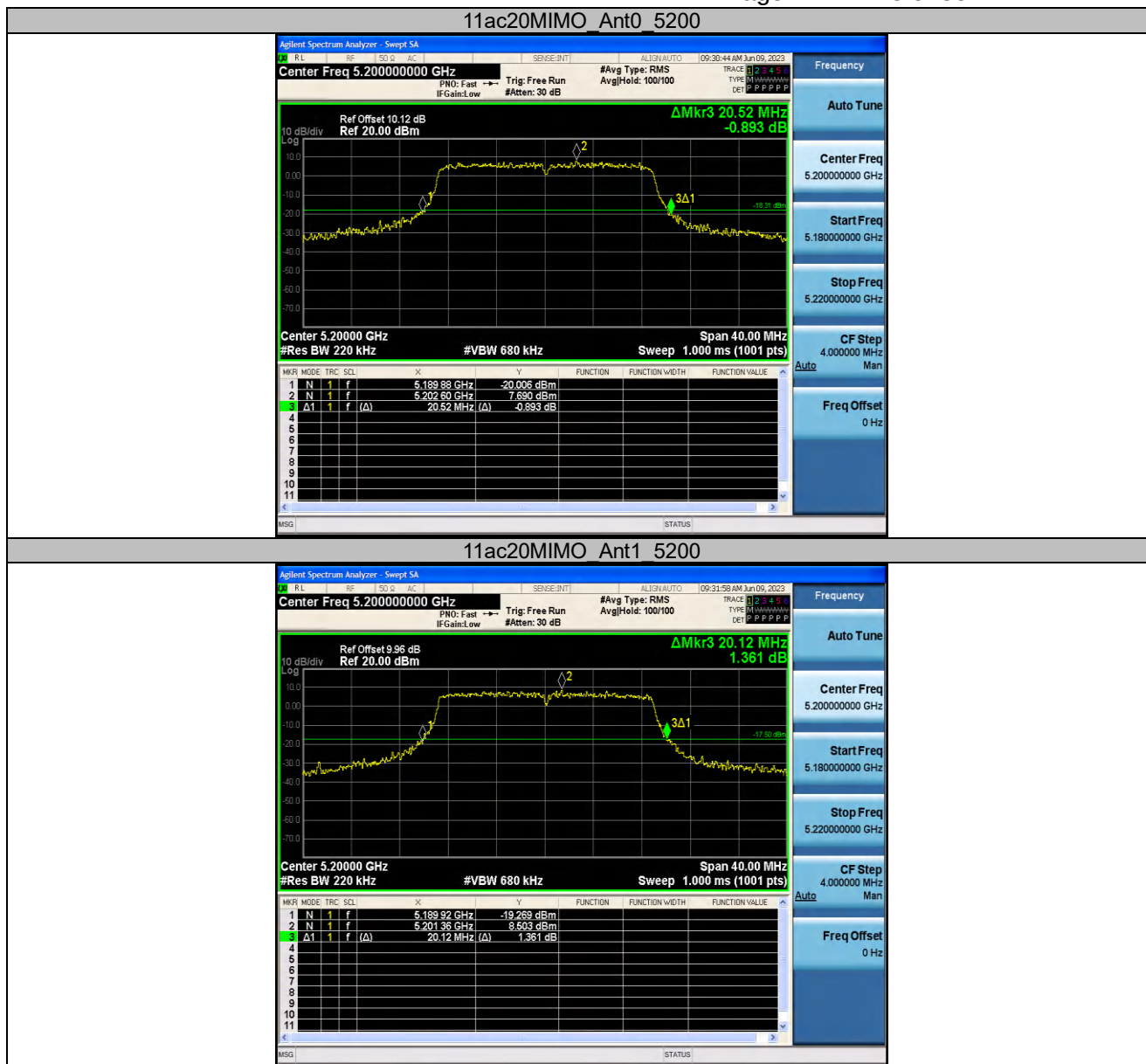


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