

Report No.: XEWM2311000559RG01

Rev.: 01

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TEST REPORT

Application No.: XEWM2311000559RG

Applicant: Beijing InHand Networks Technology Co., Ltd.

Address of Applicant: Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing

Manufacturer: Beijing InHand Networks Technology Co., Ltd.

Address of Manufacturer: Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing

EUT Description: 5G Fixed Wireless Access

Model No.: FWA02

FWA03 FWA12 FWA32 FWA62 FWA92

Trade Mark: inhand

FCC ID:

2AANY-FWA

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2023/11/02

Date of Test: 2023/11/05 to 2023/11/17

Date of Issue: 2023/11/21

Test Result : PASS *

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

Authorized Signature:

Peter Tan Regulatory Technical Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/11/21		Original

Prepared By	(Leah Chen) / Test Engineer	
Checked By	(Andy Yao) /Reviewer	



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle		ANSI C63.10 2013 Section 11.6	Clause 4.3	Reporting only
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.1.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS

Remark:

According to the Declaration letter from client, these models are the same in these:appearance,PCB layout and basic software function; The only difference is that the products are used in different markets.

Therefore in this report only the Model No.(FWA02) was tested, and internal wiring were identical for all above items. Only different on model No. for marketing requirement.



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3 General Information

3.1 Details of Client

Applicant:	Beijing InHand Networks Technology Co., Ltd.
Address of Applicant:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing
Manufacturer:	Beijing InHand Networks Technology Co., Ltd.
Address of Manufacturer:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing

3.2 Test Location

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, Ken Liu

3.3 Test Facility

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

•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 Fixed Wireless Access			
Model No.:	FWA02 FWA03 FWA12 FWA32 FWA62 FWA92	FWA03 FWA12 FWA32 FWA62		
Trade Mark:	inhand			
Hardware Version:	V1.2			
Software Version:	V2.0			
Power Supply:	DC 12V			
IN ALT I.	RF Conducte	ed	8624	24050313294
IMEI:	RSE & AC po	ower line	8624	24050366003
O	802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz		2412MHz to 2462MHz	
Operation Frequency:	802.11n(HT4	0)/ax(HE40):		2422MHz to 2452MHz
	802.11b:	802.11b: DSSS (DBPSK, DQPSK, CCK)		
Modulation Type:	802.11g/n:	OFDM (BPS	SK, QF	PSK, 16QAM, 64QAM)
	802.11ax:	OFDM/OFD 1024QAM)	MA (E	BPSK, QPSK, 16QAM, 64QAM, 256QAM,
Number of Channels:	• '	HT20)/ax(HE: 0)/ax(HE40):	•	
Channel Spacing:	5MHz			
	⊠ SISO	802.11b/g/n	1	
Smart System:	⊠ MIMO	802.11ax: 4	Tx & 4	lRx
	Diversity	802.11b/g: 4	4Tx &	4Rx
Antenna Type:	Built in WiFi	antenna		
	4.13dBi (Ant	1); 4.13dBi (A	nt2); 4	13dBi (Ant3); 4.13dBi (Ant4)
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	1.2dB	1.2dB		

suitability, reliability or/and integrity of the information.



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	Operation Frequency of each channel (802.11b/g/n HT20/ax HE20)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
	Oper	ation Freque	ency of each o	hannel (802.	11n HT40/ax I	HE40)	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency for 802.11 b/g/n (HT20) /ax (HE20)	Frequency for 802.11n (HT40)/ax(HE40)
The Lowest channel	2412MHz	2422MHz
The Middle channel	2437MHz	2437MHz
The Highest channel	2462MHz	2452MHz

Remark:

802.11ax support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power > partial RU, therefore the full RU perform full test to cover partial RU except for PSD/Duty cycle/BE.



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3.5 Test Environment and Mode

Environment Parameter	96.0~101.0 kPa Selected Values During Tests		
Relative Humidity	40-60 % RH Ambient		
Value	Temperature(°C)	Voltage(V)	
NTNV	22~25	12	

Remark:

NV: Normal Voltage NT: Normal Temperature

3.6 Description of Support Units

Description	Manufacturer	Model No.		
Adapter	KUANTEN LIMTED	KT36W120300US		
Remark: all above the information of table are provided by client.				

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	1	MCS0 (32 Mbps)



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is Built in WiFi antenna and no consideration of replacement.

The best case gain of the antenna is 4.13dBi (Ant1); 4.13dBi (Ant2); 4.13dBi (Ant3); 4.13dBi (Ant4).*

*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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MIMO Model:

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;

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.

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

The EUT supports CDD System.

All antennas have the same gain:

ANT Gain1 (dBi)	ANT Gain2 (dBi)	ANT Gain3 (dBi)	ANT Gain4 (dBi)	Power DG (dBi)	PSD DG (dBi)	Power Limit Reduction(dB)	PSD Limit Reduction(dB)
4.13	4.13	4.13	4.13	4.13	10.15	0	4.15

Power Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) =0 PSD Limit Reduction = Directional gain - 6dBi, (Directional gain > 6dBi) =10.15 - 6 = 4.15



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013 Section 6.2				
Test Frequency Range:	150kHz to 30MHz				
Receiver Setup:	RBW = 9kHz, VBW = 30kHz				
Limit:	Fraguera, range (MIII-)	Limit (d	BuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the log	arithm of the frequency.			
Test Procedure:	room. 2) The EUT was connect Impedance Stabilization impedance. The power of a second LISN 2, which plane in the same way a multiple socket outlet str single LISN provided the 3) The tabletop EUT was ground reference plane. placed on the horizontal 4) The test was perform of the EUT shall be 0.4 reference plane. The LIS unit under test and bond mounted on top of the glibetween the closest point the EUT and associated In order to find the maxin equipment and all of the	cted to AC power source through the complete soft all other units of the was bonded to the ground registrating of the LISN 1 for the unit being in was used to connect multiple rating of the LISN was not explaced upon a non-metallic And for floor-standing arrang ground reference plane, and with a vertical ground reference plane was bonded to the house of the LISN 1 and the EUT round reference plane. This does not be the LISN 1 and the EUT equipment was at least 0.8 memum emission, the relative pointerface cables must be characteristics.	ugh a LISN 1 (Line 0Ω/50μH + 5Ω linear EUT were connected to ference g measured. A ble power cables to a exceeded. table 0.8m above the ement, the EUT was been plane. The rear erence plane. The rizontal ground the boundary of the ne for LISNs distance was a ferometric control of the form the LISN 2. The positions of		



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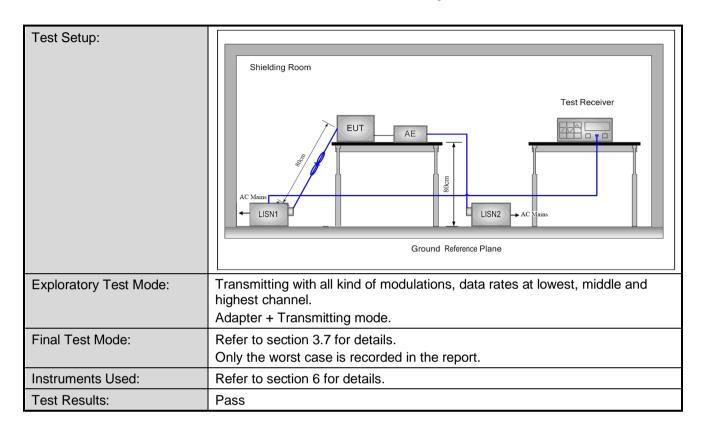
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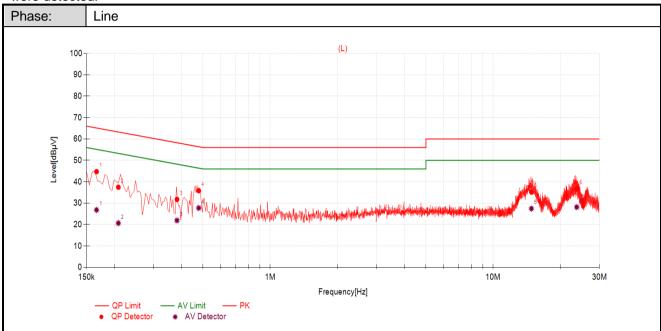
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Measurement Data

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.



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	0.1663	9.85	34.90	44.75	65.14	20.39	16.99	26.84	55.14	28.30	PASS
2	0.2083	9.85	27.63	37.48	63.27	25.79	10.84	20.69	53.27	32.58	PASS
3	0.3817	9.86	21.91	31.77	58.24	26.47	12.08	21.94	48.24	26.30	PASS
4	0.4780	9.88	25.96	35.84	56.37	20.53	17.88	27.76	46.37	18.61	PASS
5	14.8728	10.21	24.99	35.20	60.00	24.80	17.26	27.47	50.00	22.53	PASS
6	23.7523	10.29	26.41	36.70	60.00	23.30	17.88	28.17	50.00	21.83	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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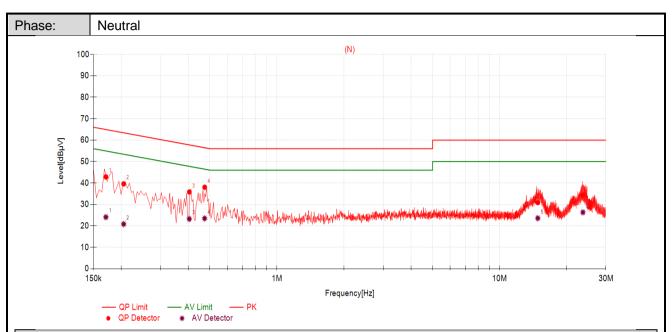
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Data	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1705	9.80	33.07	42.87	64.94	22.07	14.28	24.08	54.94	30.86	PASS
2	0.2049	9.85	29.75	39.60	63.41	23.81	10.98	20.83	53.41	32.58	PASS
3	0.4039	9.81	26.00	35.81	57.77	21.96	13.42	23.23	47.77	24.54	PASS
4	0.4733	9.85	28.18	38.03	56.46	18.43	13.63	23.48	46.46	22.98	PASS
5	14.8390	10.30	20.57	30.87	60.00	29.13	13.28	23.58	50.00	26.42	PASS
6	23.6656	10.30	24.04	34.34	60.00	25.66	16.02	26.32	50.00	23.68	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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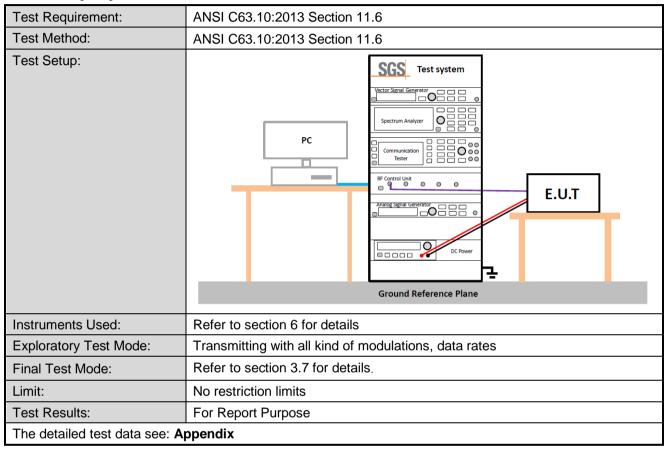


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4.3 Duty Cycle





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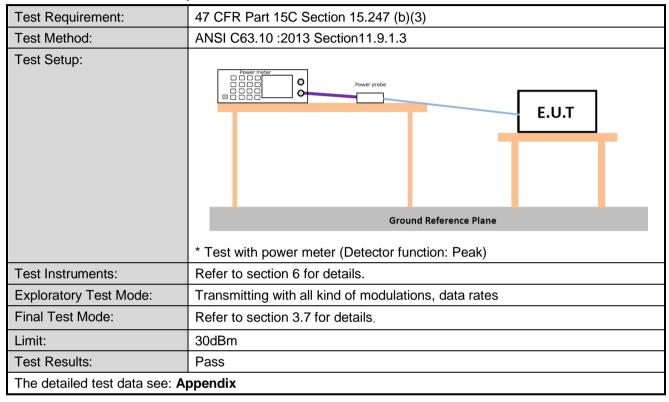


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4.4 Conducted Output Power





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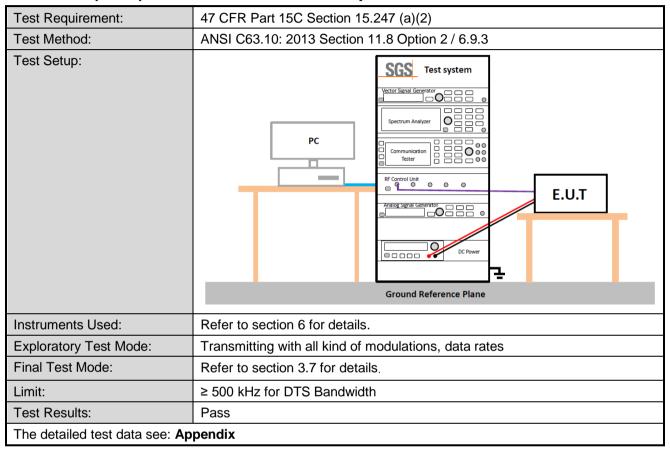


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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth





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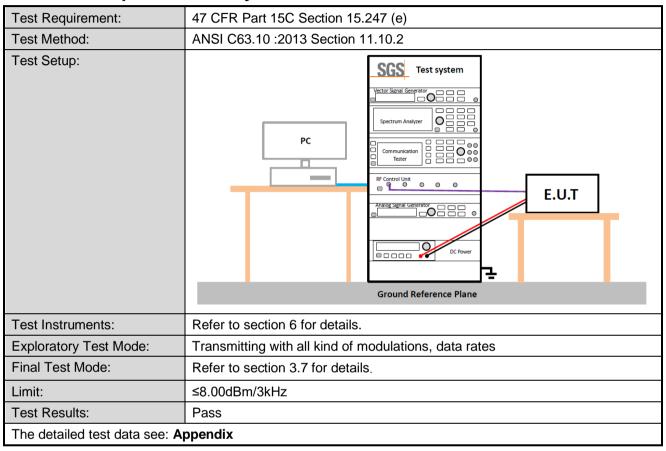


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4.6 Power Spectral Density





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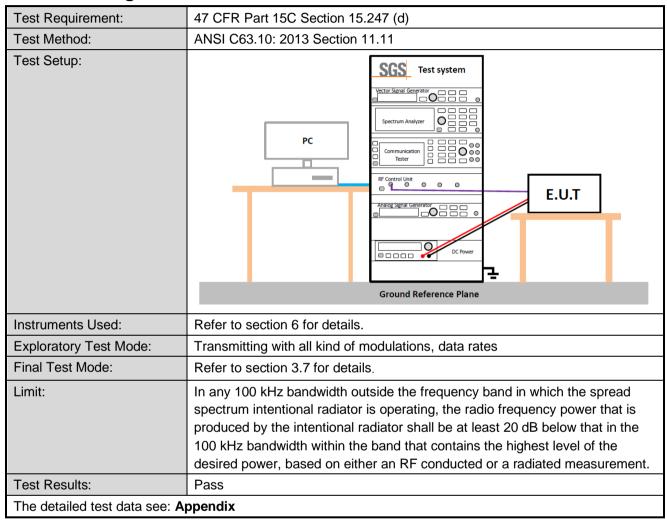


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4.7 Band-edge for RF Conducted Emissions





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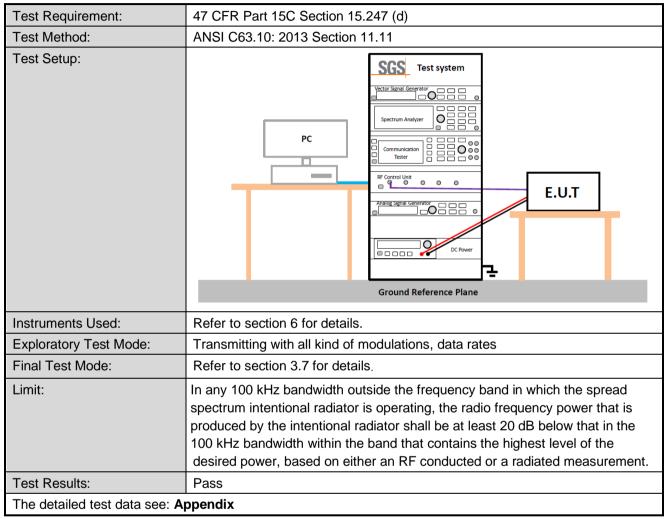


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4.8 RF Conducted Spurious Emissions





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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Sect	ion 11.12						
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Test Frequency:	9kHz ~ 25GHz							
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak			
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above IGnz	Peak	1MHz	3MHz	Peak			
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
	30MHz-88MHz	100	40.0	Quasi-peak	3			
	88MHz-216MHz	150	43.5	Quasi-peak	3			
	216MHz-960MHz	200	46.0	Quasi-peak	3			
	960MHz-1GHz	500	54.0	Quasi-peak	3			
	Above 1GHz	500	54.0	Average	3			
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak							
	emission level radiated b		o pour minit		nai pouit			



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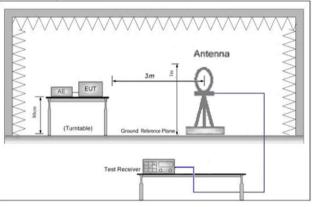


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Test Setup:



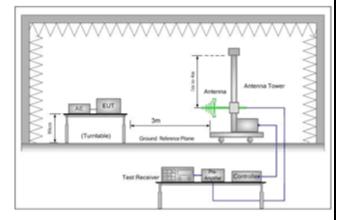


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

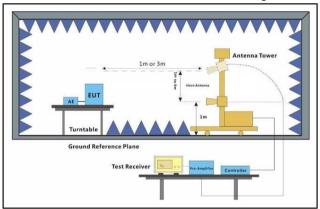


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, 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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, 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).
- c. 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.
- d. 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.
- 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(for the test



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	frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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.
	g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
	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.
	 At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 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 ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	VBW = 10 Hz, when duty cycle is no less than 98 percent.
	VBW ≥ 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. Adapter + Transmitting mode.
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.



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Instruments Used:	Refer to section 6 for details.			
Test Results:	Pass			
The detailed test data see: Appendix				



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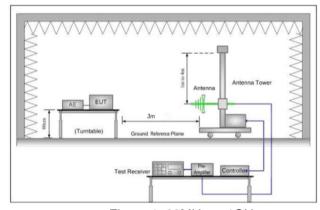
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013 Section 11.12						
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:



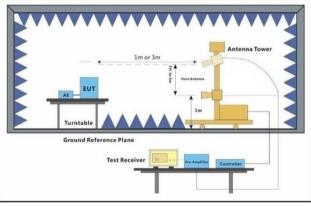


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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	,
Test Procedure:	a. For below 1GHz, 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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	b. For above 1GHz, 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.
	c. 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.
	d. 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.
	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. 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
	h. Test the EUT in the lowest channel, the Highest channel
	i. 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.
	j. 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 = 10 Hz, when duty cycle is no less than 98 percent.
	 VBW ≥ 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.
	Adapter + Transmitting mode.



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Final Test Mode:	Refer to section 3.7 for details.			
Instruments Used:	nents 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)

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸ GHz
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 0.2%
4	RF conducted power	± 0.21dB
5	RF power density	± 2.84dB
6	Conducted Spurious emissions	± 0.75dB
7	Conduction Emission	± 3.0dB (150kHz to 30MHz)
		± 4.6dB (9kHz to 30MHz)
		± 4.9dB (30MHz to 1GHz)
8	Radiated Emission	± 4.9dB (1GHz to 6GHz)
		± 4.7dB (6GHz to 18GHz)
		± 5.26dB (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.



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6 Equipment List

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	2023/08/30	2024/08/29			
Power Supply	Agilent	66311B	XAW01-17-01	2023/02/16	2024/02/15			
Temperature and humidity meter	MingGao	T809	XAW01-01-16	2023/09/04	2024/09/03			

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	XAW04-03-01	N/A	N/A		
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29		
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2023/06/30	2024/06/29		
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/08/30	2024/08/29		
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR		
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15		
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2023/06/30	2024/06/29		



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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	XAW03-35-01	2021/09/09	2024/09/08			
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15			
Spectrum Analyzer	ROHDE&SCHWARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14			
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29			
Receiving antenna (30MHz- 3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27			
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27			
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22			
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR			
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR			
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR			
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR			
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14			
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2023/08/30	2024/08/29			
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2023/08/30	2024/08/29			
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2023/08/30	2024/08/29			
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/09/04	2024/09/03			
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR			
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25			



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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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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	7.600	2408.440	2416.040	0.5	PASS
	Ant2	2412	7.560	2408.480	2416.040	0.5	PASS
	Ant3	2412	7.040	2408.960	2416.000	0.5	PASS
	Ant4	2412	7.560	2408.480	2416.040	0.5	PASS
	Ant1	2437	8.560	2432.480	2441.040	0.5	PASS
	Ant2	2437	8.520	2432.480	2441.000	0.5	PASS
	Ant3	2437	7.600	2432.960	2440.560	0.5	PASS
	Ant4	2437	9.040	2432.480	2441.520	0.5	PASS
	Ant1	2462	8.040	2458.480	2466.520	0.5	PASS
	Ant2	2462	8.040	2458.480	2466.520	0.5	PASS
	Ant3	2462	8.040	2458.440	2466.480	0.5	PASS
	Ant4	2462	7.520	2458.480	2466.000	0.5	PASS
	Ant1	2412	14.480	2405.680	2420.160	0.5	PASS
	Ant2	2412	14.240	2405.680	2419.920	0.5	PASS
	Ant3	2412	15.720	2404.440	2420.160	0.5	PASS
	Ant4	2412	12.560	2406.680	2419.240	0.5	PASS
	Ant1	2437	15.320	2429.160	2444.480	0.5	PASS
	Ant2	2437	13.640	2429.640	2443.280	0.5	PASS
11g	Ant3	2437	15.400	2429.120	2444.520	0.5	PASS
	Ant4	2437	14.520	2429.360	2443.880	0.5	PASS
	Ant1	2462	14.400	2455.720	2470.120	0.5	PASS
	Ant2	2462	15.080	2454.480	2469.560	0.5	PASS
	Ant3	2462	15.400	2454.480	2469.880	0.5	PASS
	Ant4	2462	15.000	2454.520	2469.520	0.5	PASS
	Ant1	2412	14.400	2405.680	2420.080	0.5	PASS
	Ant2	2412	16.000	2404.520	2420.520	0.5	PASS
	Ant3	2412	15.680	2404.480	2420.160	0.5	PASS
	Ant4	2412	13.840	2405.680	2419.520	0.5	PASS
	Ant1	2437	16.120	2428.440	2444.560	0.5	PASS
	Ant2	2437	16.320	2428.240	2444.560	0.5	PASS
11n20SISO	Ant3	2437	16.520	2428.240	2444.760	0.5	PASS
	Ant4	2437	15.640	2428.880	2444.520	0.5	PASS
	Ant1	2462	14.640	2455.760	2470.400	0.5	PASS
	Ant2	2462	14.920	2455.480	2470.400	0.5	PASS
	Ant3	2462	15.040	2454.480	2469.520	0.5	PASS
	Ant4	2462	15.080	2454.440	2469.520	0.5	PASS
	Ant1	2422	32.560	2406.960	2439.520	0.5	PASS
11n40SISO	Ant2	2422	33.760	2405.760	2439.520	0.5	PASS
	Ant3	2422	35.040	2404.480	2439.520	0.5	PASS
	Ant4	2422	33.840	2404.480	2438.320	0.5	PASS
	Ant1	2437	35.040	2419.480	2454.520	0.5	PASS
	Ant2	2437	35.040	2419.480	2454.520	0.5	PASS
	Ant3	2437	35.120	2419.400		0.5	PASS
		2437	35.040	2419.480	2454.520 2454.520		PASS
	Ant4		35.520	2419.480		0.5	PASS
	Ant1	2452 2452			2470.000	0.5	PASS
	Ant2 Ant3	2452	35.120 35.280	2434.480 2434.480	2469.600 2469.760	0.5 0.5	PASS
	Ant4	2452	34.960	2434.480	2469.440	0.5	PASS



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				•			
	Ant1	2412	16.360	2404.480	2420.840	0.5	PASS
	Ant2	2412	18.000	2403.400	2421.400	0.5	PASS
	Ant3	2412	16.520	2404.480	2421.000	0.5	PASS
	Ant4	2412	18.080	2402.960	2421.040	0.5	PASS
	Ant1	2437	18.040	2427.760	2445.800	0.5	PASS
11ax20MIMO	Ant2	2437	17.040	2427.520	2444.560	0.5	PASS
TTAXZUIVIIIVIO	Ant3	2437	18.320	2427.960	2446.280	0.5	PASS
	Ant4	2437	18.320	2427.520	2445.840	0.5	PASS
	Ant1	2462	18.840	2452.680	2471.520	0.5	PASS
	Ant2	2462	16.720	2454.520	2471.240	0.5	PASS
	Ant3	2462	17.520	2453.240	2470.760	0.5	PASS
	Ant4	2462	16.360	2454.440	2470.800	0.5	PASS
	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
	Ant2	2422	35.040	2404.480	2439.520	0.5	PASS
11ax40MIMO	Ant3	2422	35.040	2404.480	2439.520	0.5	PASS
	Ant4	2422	35.040	2404.480	2439.520	0.5	PASS
	Ant1	2437	36.400	2418.120	2454.520	0.5	PASS
	Ant2	2437	30.000	2419.480	2449.480	0.5	PASS
	Ant3	2437	38.000	2417.960	2455.960	0.5	PASS
	Ant4	2437	37.840	2418.200	2456.040	0.5	PASS
	Ant1	2452	37.200	2433.760	2470.960	0.5	PASS
	Ant2	2452	37.840	2433.120	2470.960	0.5	PASS
	Ant3	2452	36.320	2434.480	2470.800	0.5	PASS
	Ant4	2452	37.760	2433.280	2471.040	0.5	PASS



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Test Graphs





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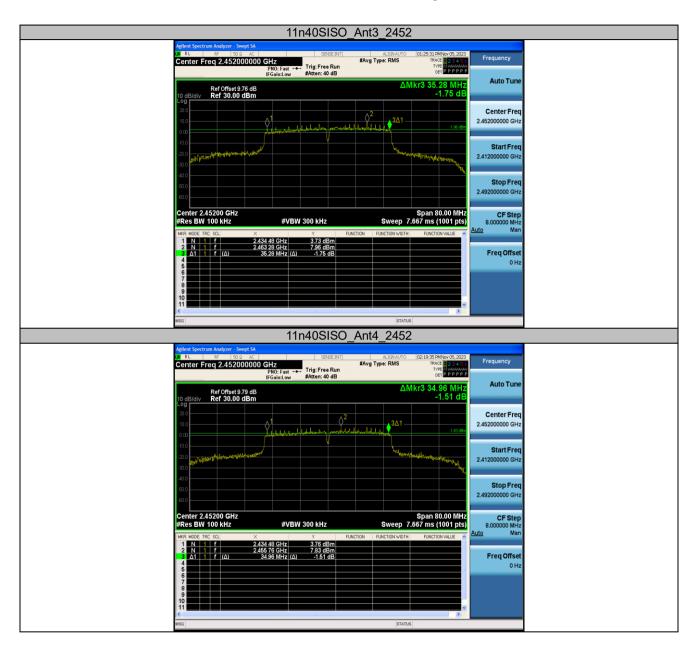
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