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Report Template Version: V04 Report Template Revision Date: 2018-07-06

Test Report

Report No.: CQASZ20210500030EX-01

Applicant: Chengdu Huaxin Zhiyun Technology Co., Ltd.

Address of Applicant: 1-4021, Science Park, West District, University of Electronic Science and

technology, No. 88, Tianchen Road, Chengdu

Manufacturer: Chengdu Huaxin Zhiyun Technology Co., Ltd.

Address of 1-4021, Science Park, West District, University of Electronic Science and

Manufacturer: technology, No. 88, Tianchen Road, Chengdu

Equipment Under Test (EUT):

Product: Binocular people flow counter terminal

Model No.: HX-CCD16

Brand Name: Huaxinzhiyun

FCC ID: 2AYE6-HX-CCD16

Standards: 47 CFR FCC Part 15 Subpart C 15.247

Date of Test: May 10, 2021 -- May 24, 2021

Date of Issue: June 15, 2021

Test Result: PASS

Reviewed By:

(Lewis Zhou)

(Jun Li)

Approved By:

(Sheek luo)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: CQASZ20210500030EX-01

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210500030EX-01	Rev.01	Initial report	June 15, 2021



Report No.: CQASZ20210500030EX-01

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak & Average Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS

Note: N/A - not applicable to this device





3 Contents

		Page
1	VERSION	2
2	TEST SUMMARY	3
3	CONTENTS	4
4	GENERAL INFORMATION	5
	4.1 CLIENT INFORMATION	5
5	TEST RESULTS AND MEASUREMENT DATA	10
	5.1 ANTENNA REQUIREMENT. 5.2 CONDUCTED EMISSIONS. 5.3 CONDUCTED PEAK & AVERAGE OUTPUT POWER. 5.4 6DB OCCUPY BANDWIDTH. 5.5 POWER SPECTRAL DENSITY. 5.6 BAND-EDGE FOR RF CONDUCTED EMISSIONS. 5.7 RF CONDUCTED SPURIOUS EMISSIONS. 5.8 RADIATED SPURIOUS EMISSIONS. 5.8.1 Radiated emission below 1GHz. 5.8.2 Transmitter emission above 1GHz. 5.9 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY.	11 14 15 20 26 30 44 47 49
6	PHOTOGRAPHS - EUT TEST SETUP	60
	PLEASE REFER TO TEST SETUP FILE	60
7	PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	62



Report No.: CQASZ20210500030EX-01

4 General Information

4.1 Client Information

Applicant:	Chengdu Huaxin Zhiyun Technology Co., Ltd.
Address of Applicant:	1-4021, Science Park, West District, University of Electronic Science and
Address of Applicant.	technology, No. 88, Tianchen Road, Chengdu
Manufacturer:	Chengdu Huaxin Zhiyun Technology Co., Ltd.
Address of Manufacturer:	1-4021, Science Park, West District, University of Electronic Science and
	technology, No. 88, Tianchen Road, Chengdu

4.2 General Description of EUT

Product Name:	Binocular people flow counter terminal			
Test Model No.:	HX-CCD16			
Trade Mark:	Huaxinzhiyun			
Hardware Version:	V2.0			
Software Version:	V1.2			
On anation Francisco	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz			
Operation Frequency:	IEEE 802.11n(H40): 2422MHz~2452MHz			
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7			
Channel Separation:	5MHz			
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g: OFDM IEEE for 802.11n(HT20): OFDM IEEE for 802.11n(HT40): OFDM			
Product Type:	☐ Mobile ☐ Portable ☒ Fix Location			
Antenna Type	FPC Antenna			
Antenna Gain	0dBi Max			
Power Supply:	DC12V from adapter or others (12V power supply)			

Note: 1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



Report No.: CQASZ20210500030EX-01

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel Frequency Channel Frequency Channel Frequency Channel Frequency							Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

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:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

For 802.11n (HT40):

Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz

Note: Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.3 Test Environment

Operating Environn	nent:		
Conduction emi	ssion		
Temperature:		23 °C	
Humidity:		51 % RH	
Atmospheric Pre	ssure:	992mbar	
Radiated Emiss	ion (Normal	Conditions)	
Temperature:		25.1 °C~25.5 °C	
Humidity:		51 % RH~55 % RH	
Atmospheric Pre	ssure:	992mbar	
RF item test (R	F test room	Normal Conditions)	
Temperature:		26 °C~27.3 °C	
Humidity:		58 % RH~59 % RH	
Atmospheric Pressure:		992mbar	
Transmitting mode:	Use test	software to set the lowest frequency, the middle frequency and the	
highest frequency keep transmitting of the EUT.			



Report No.: CQASZ20210500030EX-01

Note: In the process of transmitting of EUT, the duty cycle >98%.

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

	1			1
Description	Manufacturer	Model No.	Remark	certificaton
adapter	1	MODEL:1202000ST OUTPUT: DC 12V 2A	Provide by lab	SDOC
/	/	/	/	/

4.5 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

4.6 Test Facility

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

• ISED Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263





4.7 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** guality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10 ⁻⁸	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

⁽¹⁾This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

None.



Report No.: CQASZ20210500030EX-01

4.11 Equipment List

				0 111 11	0 111 11
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2020/9/22	2021/9/21
Spectrum analyzer	R&S	FSU26	CQA-038	2020/10/24	2021/10/23
Spectrum analyzer	keysight	N9020A	CQA-105	2020/10/24	2021/10/23
		AFS4-00010300-18-10P-			
Preamplifier	MITEQ	4	CQA-035	2020/9/22	2021/9/21
		AMF-6D-02001800-29-		2018/11/2	2019/11/1
Preamplifier	MITEQ	20P	CQA-036	2010/11/2	2019/11/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2018/10/28	2020/10/27
Bilog Antenna	R&S	HL562	CQA-011	2020/9/22	2021/9/21
Horn Antenna	R&S	HF906	CQA-012	2020/9/22	2021/9/21
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2020/9/22	2021/9/21
Coaxial Cable					
(Above 1GHz)	CQA	N/A	C019	2020/9/22	2021/9/21
Coaxial Cable					
(Below 1GHz)	CQA	N/A	C020	2020/9/22	2021/9/21
Antenna Connector	CQA	RFC-01	CQA-080	2020/9/22	2021/9/21
RF	OQA	10-01	CQA-000	2020/9/22	2021/9/21
cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2020/9/22	2021/9/21
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2020/9/22	2021/9/21
N1918A Power					
Analysis Manager					
Power Panel	Agilent	N1918A	CQA-074	2020/9/22	2021/9/21
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2020/9/22	2021/9/21
EMI Test Receiver	R&S	ESPI3	CQA-013	2020/9/22	2021/9/21
LISN	R&S	ENV216	CQA-003	2021/11/1	2021/10/30
Coaxial cable	CQA	N/A	CQA-C009	2020/9/22	2021/9/21

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.





5 Test results and Measurement Data

5.1 Antenna Requirement

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

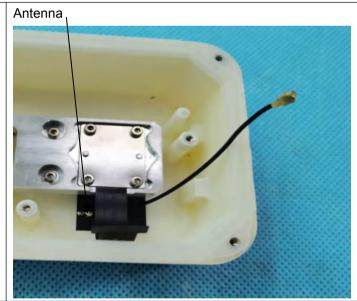
15.203 requirement:

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.

EUT Antenna:



The antenna is FPC antenna. The best case gain of the antenna is 0dBi.



Report No.: CQASZ20210500030EX-01

5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
	Frequency range (MHz)	Limit (dBuV)			
	Frequency range (MHz)	Quasi-peak	Average		
Limit:	0.15-0.5	66 to 56*	56 to 46*		
Linne.	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm				
Test Procedure:	 The mains terminal disturbroom. The EUT was connected to Impedance Stabilization N impedance. The power cal connected to a second reference plane in the same way as multiple socket outlet strip a single LISN provided the reasonable single single	o AC power source throetwork) which provides bles of all other units of LISN 2, which was the LISN 1 for the unit to was used to connect ating of the LISN was need upon a non-metalliend for floor-standing arround reference plane, ith a vertical ground reference plane was bonded to the 1 was placed 0.8 m from the vertical ground reference und reference plane. The of the LISN 1 and the quipment was at least 0 am emission, the relativaterface cables must be	ough a LISN 1 (Line a 50Ω/50μH + 5Ω linear fithe EUT were bonded to the ground being measured. A multiple power cables to not exceeded. In table 0.8m above the rangement, the EUT was derence plane. The rear direference plane. The e horizontal ground form the boundary of the plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2. The positions of		
Test Setup:	Shielding Room EUT AC Mains	Ground Reference Plane	Test Receiver		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.				
Test Results:	All modes of 802.11b/g/n were tested at Low, Middle, and High channel; only				

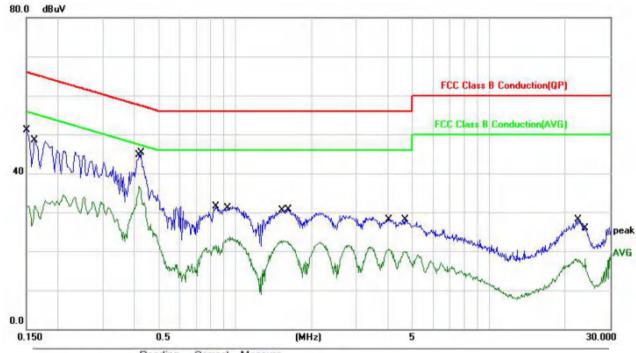


Report No.: CQASZ20210500030EX-01

	the worst result of 802.11b CH1 was reported as below
Test Voltage:	AC120V 60Hz
Test Results:	Pass

Measurement Data

Live Line:

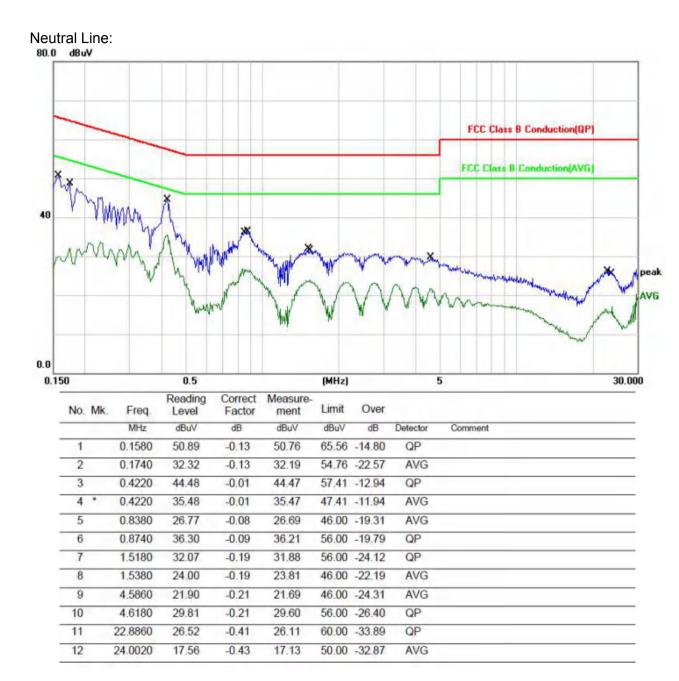


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1500	51,30	-0.13	51.17	65.99	-14.82	QP		
2		0.1620	31.81	-0.13	31.68	55.36	-23.68	AVG		
3	*	0.4180	36.73	-0.01	36.72	47.49	-10.77	AVG		
4		0.4260	45.23	-0.02	45.21	57.33	-12.12	QP		
5		0.8380	31.67	-0.08	31.59	56.00	-24.41	QP		
6		0.9340	23.34	-0.11	23.23	46.00	-22.77	AVG		
7		1.5180	22.83	-0.19	22.64	46.00	-23.36	AVG		
8		1.6180	30.97	-0.20	30.77	56.00	-25.23	QP		
9		4.0620	20,53	-0.20	20.33	46.00	-25.67	AVG		
10		4.6620	28.30	-0.21	28.09	56.00	-27.91	QP		
11		22.4619	28.48	-0.40	28.08	60.00	-31.92	QP		
12		24.0020	18.47	-0.43	18.04	50.00	-31.96	AVG		

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.





Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



Report No.: CQASZ20210500030EX-01

5.3 Conducted Peak & Average Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)			
Test Method:	ANSI C63.10: 2013			
Test Setup:	EUT	Power Meter		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;			
Final Test Mode:	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40);			
	Only the worst case is recorded in the report.			
Limit:	30dBm			
Test Results:	Pass			

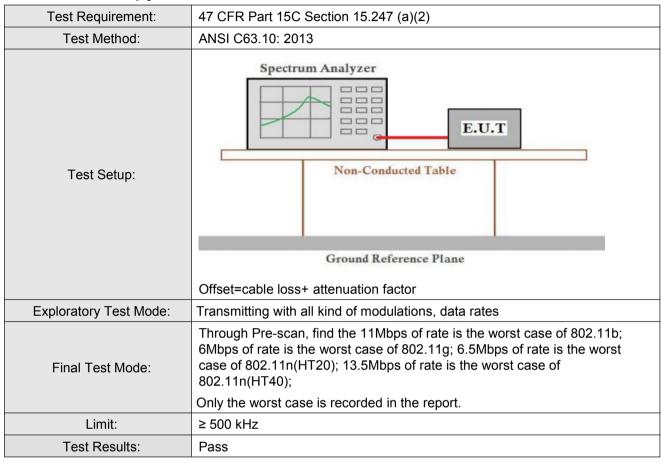
WIFI(2.4G)

Туре	Test channel	Peak Output Power (dBm)	AVG Output Power (dBm)	Limit (dBm)	Result
	Lowest	15.98	11.44		
802.11b	Middle	15.26	10.58	30.00	Pass
	Highest	15.24	10.33		
	Lowest	15.46	9.67		
802.11g	Middle	15.46	9.84	30.00	Pass
	Highest	15.18	9.39		
802.11n(HT20)	Lowest	14.09	9.16		
	Middle	14.23	9.36	30.00	Pass
	Highest	14.02	9.56		
802.11n(HT40)	Lowest	13.12	7.86		
	Middle	13.41	7.91	30.00	Pass
	Highest	13.26	7.94		





5.4 6dB Occupy Bandwidth



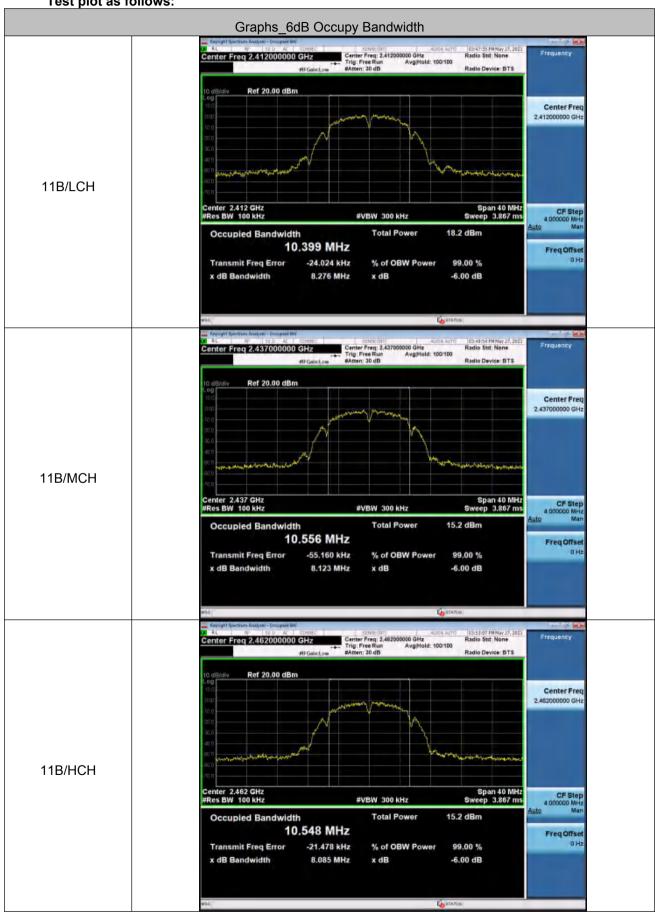
Measurement Data

Туре	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
	Lowest	8.276		
802.11b	iddle	8.123	≥500	Pass
	Highest	8.085		
	Lowest	16.34		
802.11g	Middle	16.33	≥500	Pass
	Highest	16.12		
802.11n(HT20)	Lowes	16.29		
	Middle	16.08	≥500	Pass
	Highest	15.70		
802.11n(HT40)	Lowest	36.56		
	Middle	35.96	≥500	Pass
	Highest	35.74		

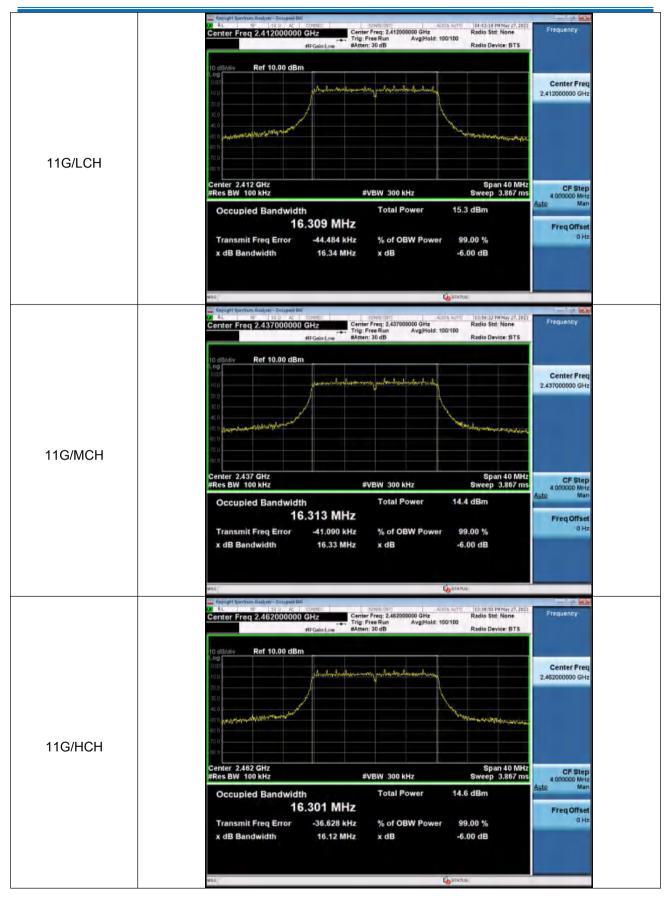


Report No.: CQASZ20210500030EX-01

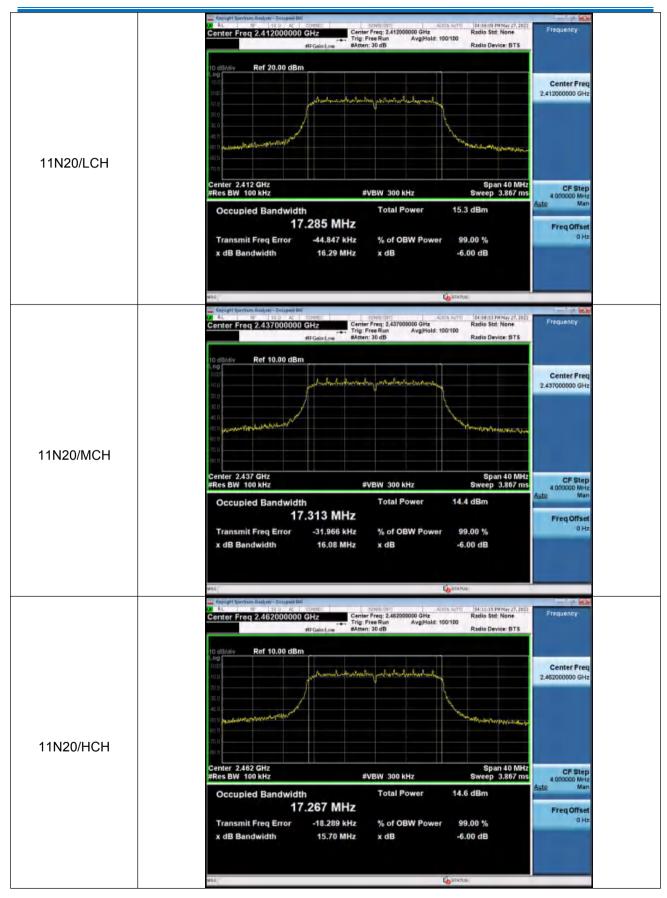
Test plot as follows:











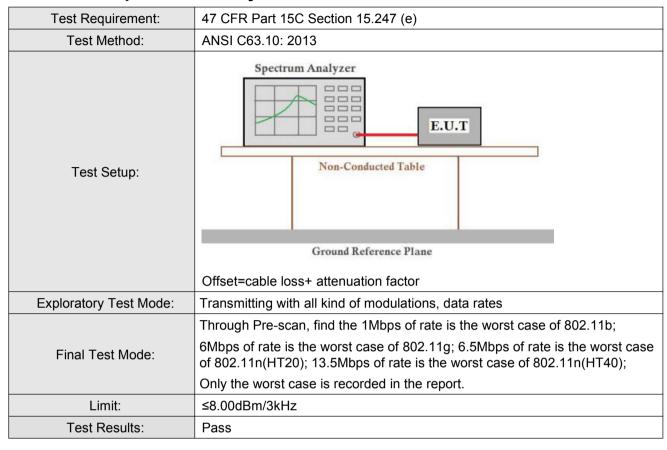






Report No.: CQASZ20210500030EX-01

5.5 Power Spectral Density



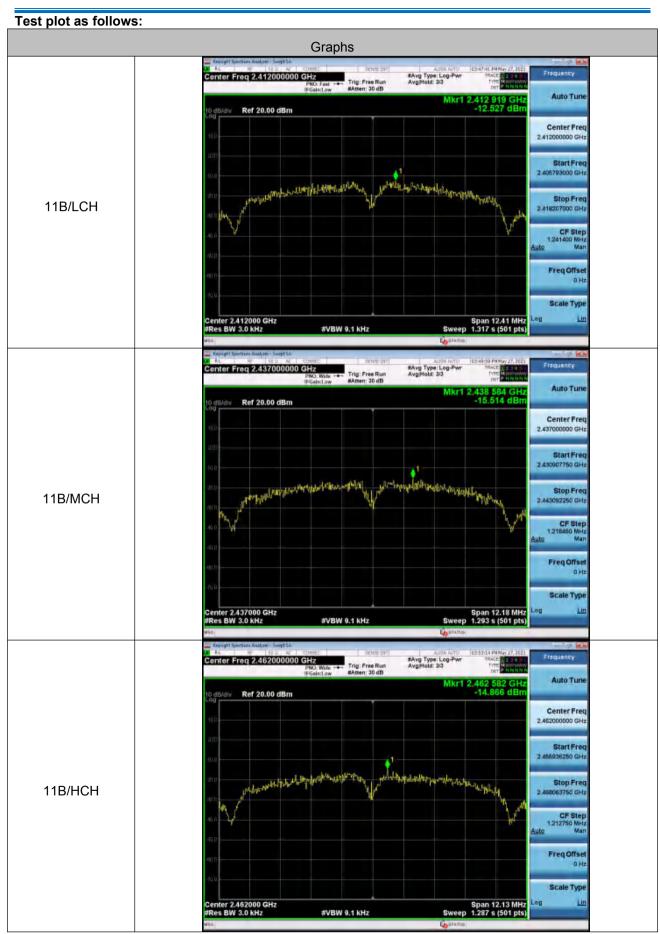


Report No.: CQASZ20210500030EX-01

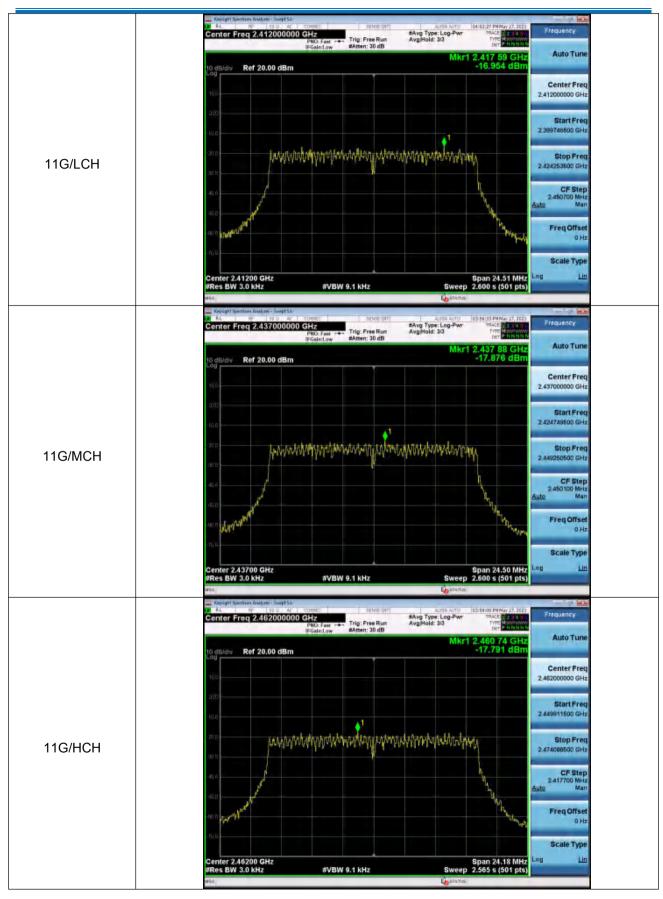
Measurement Data

Туре	Channel	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
	Lowest	-12.527		
802.1 b	Middle	-15.514	8	Pass
	Highest	-14.866		
	Lowest	-17.876		
802.11g	Middle	-17.791	8	Pass
	Highest	-16.954		
	Lowest	-17.249		
802.11n(HT20)	Middle	-17.578	8	Pass
	Highest	-18.515		
	Lowest	-19.057		
802.11n(HT40)	Middle	-19.38	8	Pass
	Highest	-18.871		

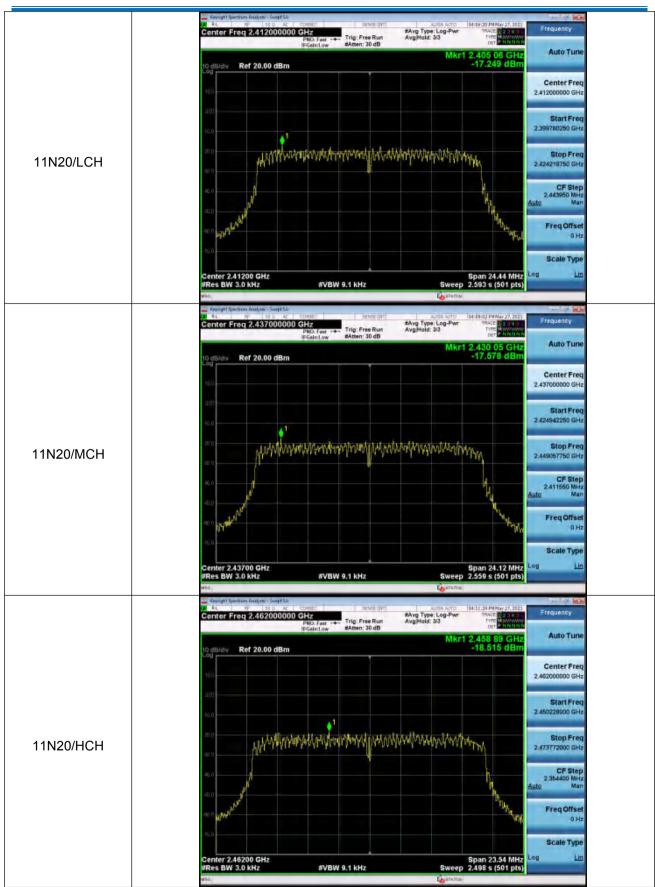




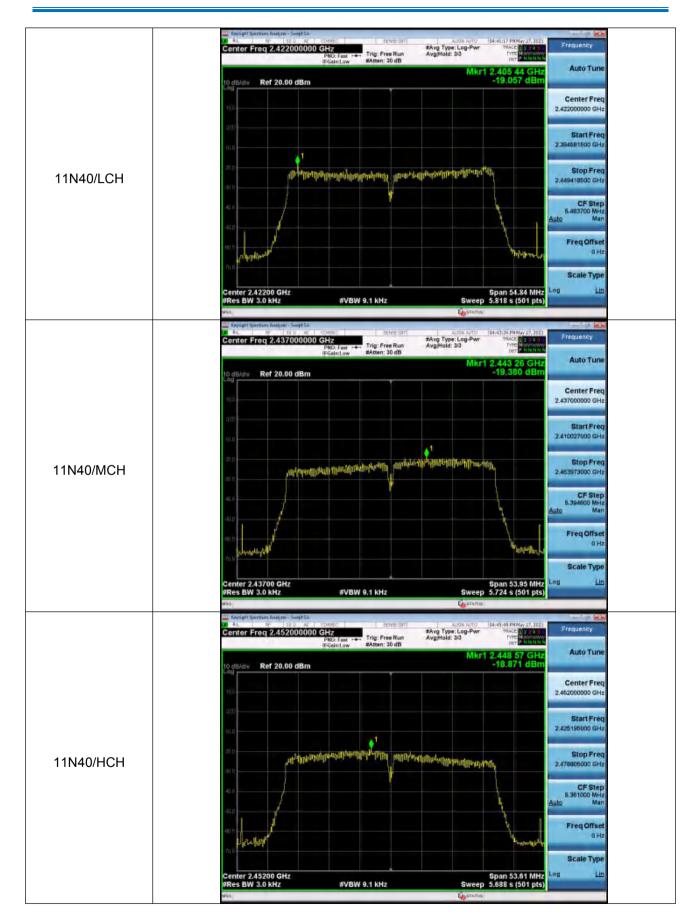








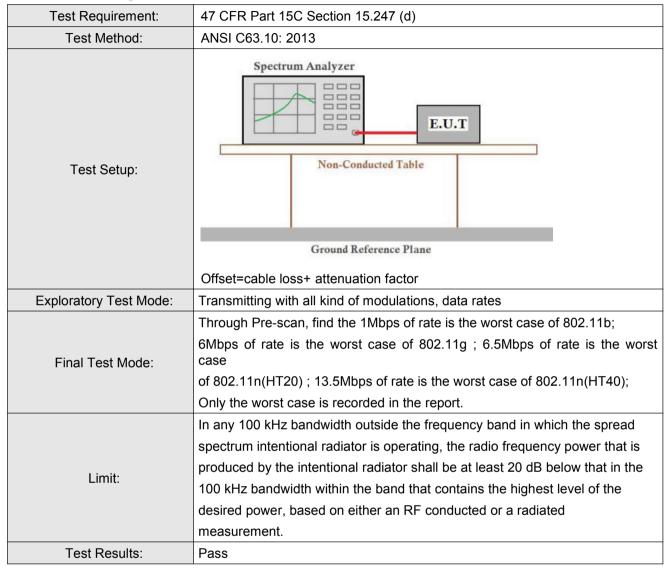






Report No.: CQASZ20210500030EX-01

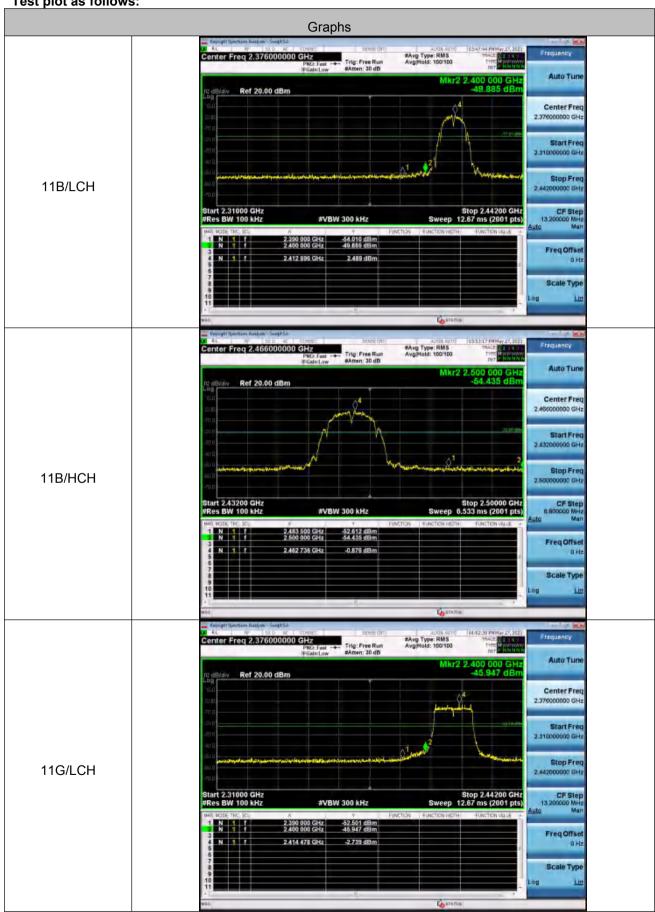
5.6 Band-edge for RF Conducted Emissions



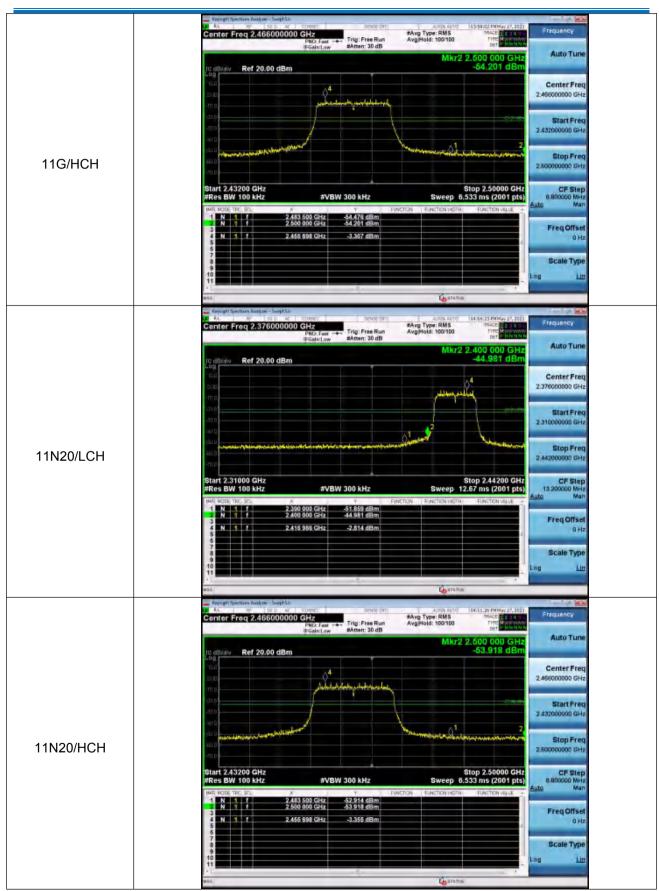


Report No.: CQASZ20210500030EX-01

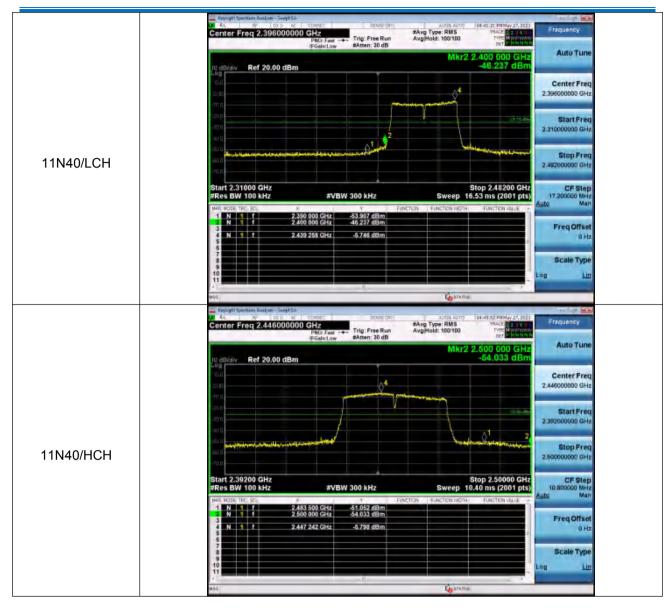
Test plot as follows:







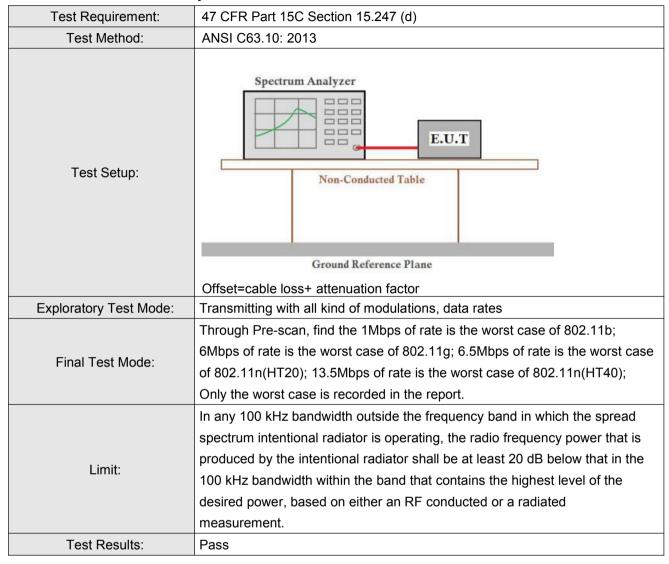




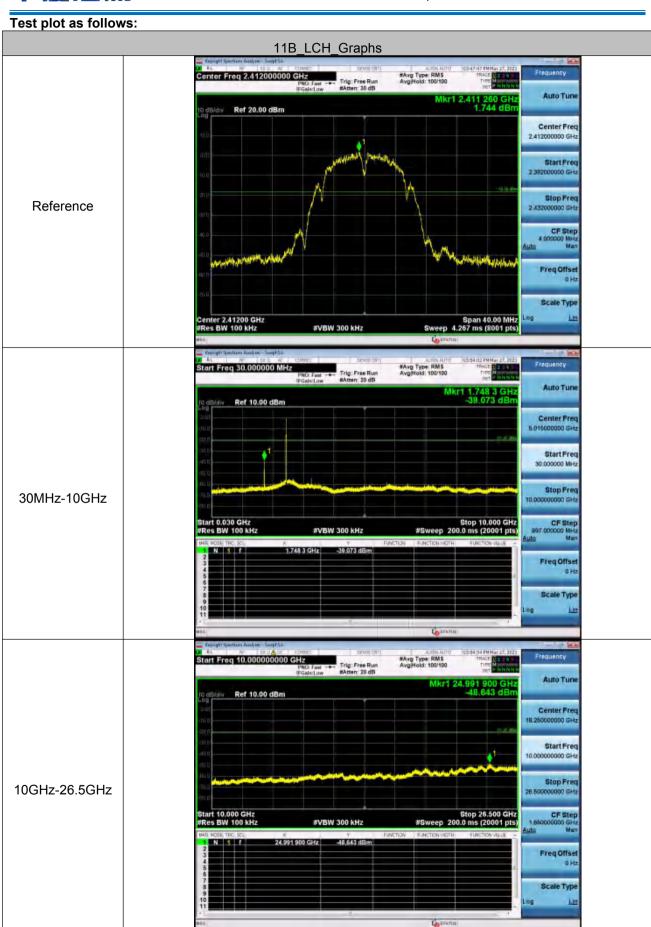


Report No.: CQASZ20210500030EX-01

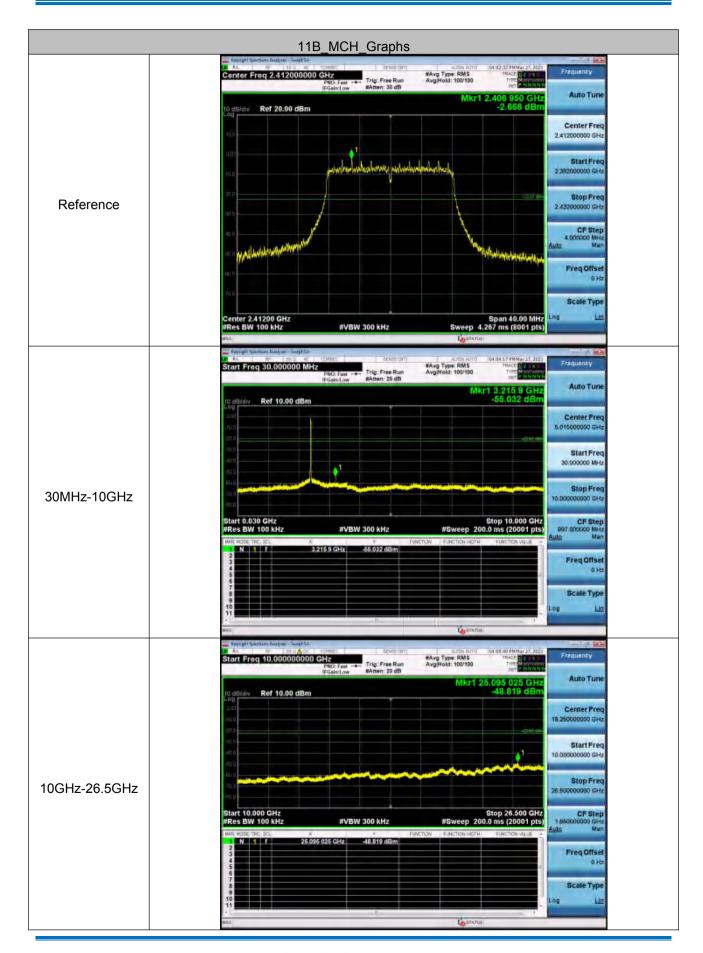
5.7 RF Conducted Spurious Emissions



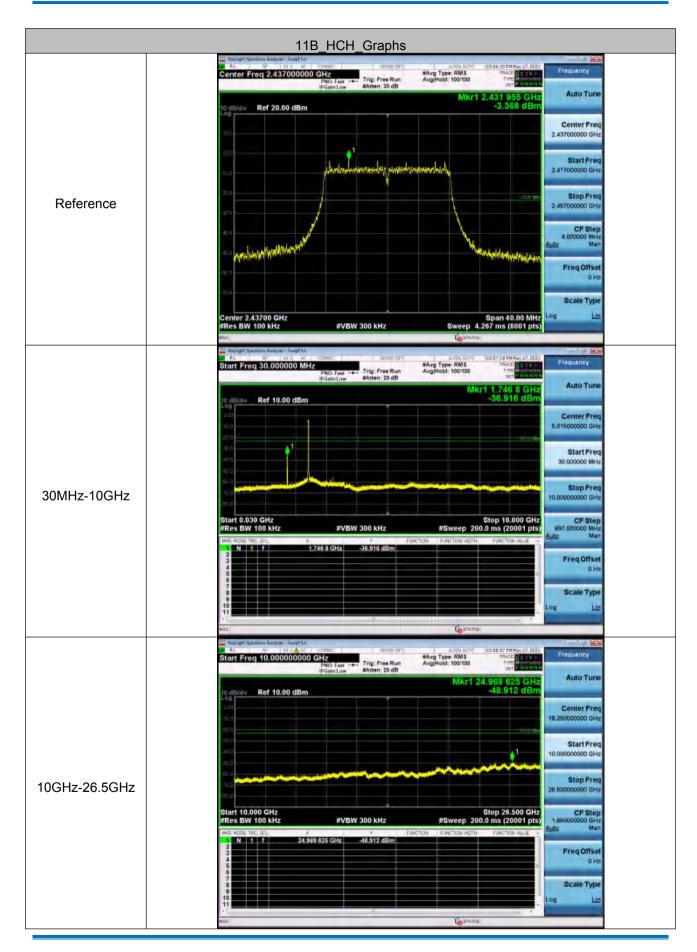




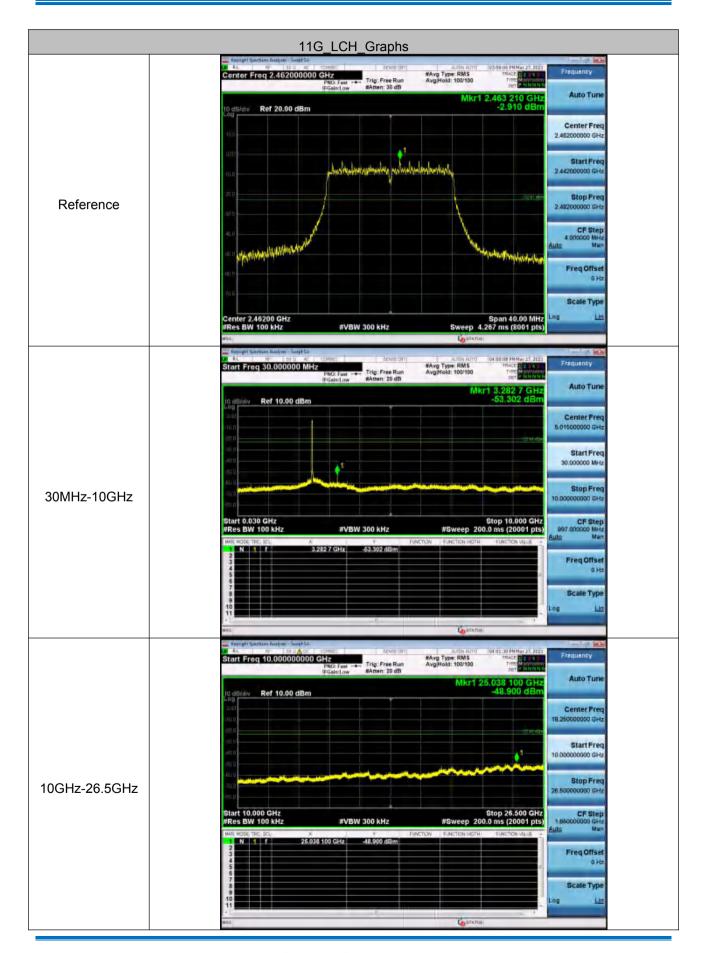




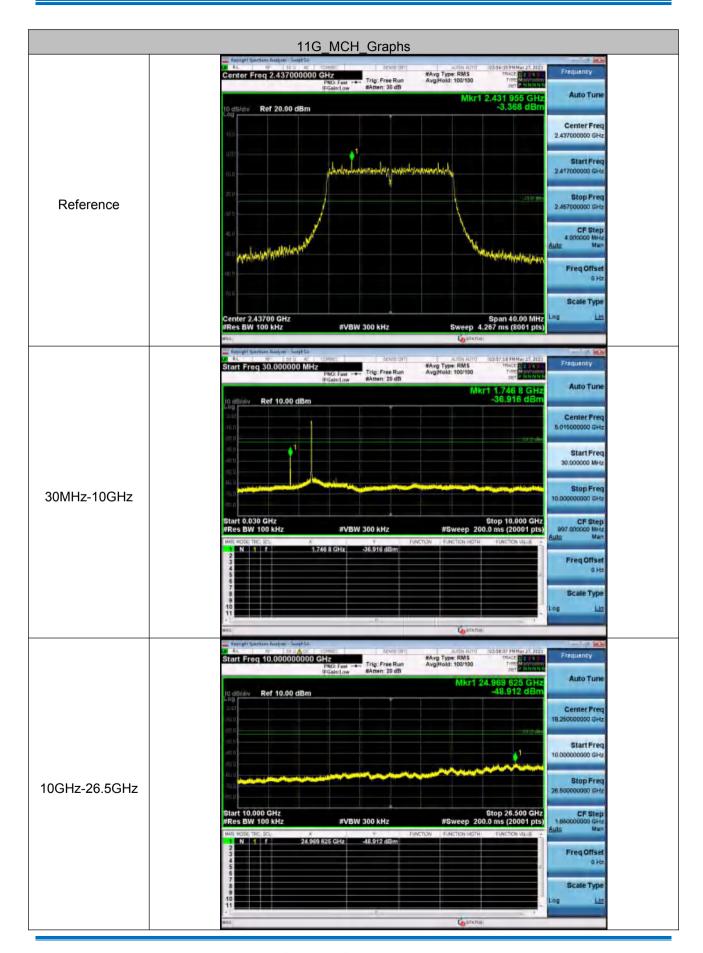




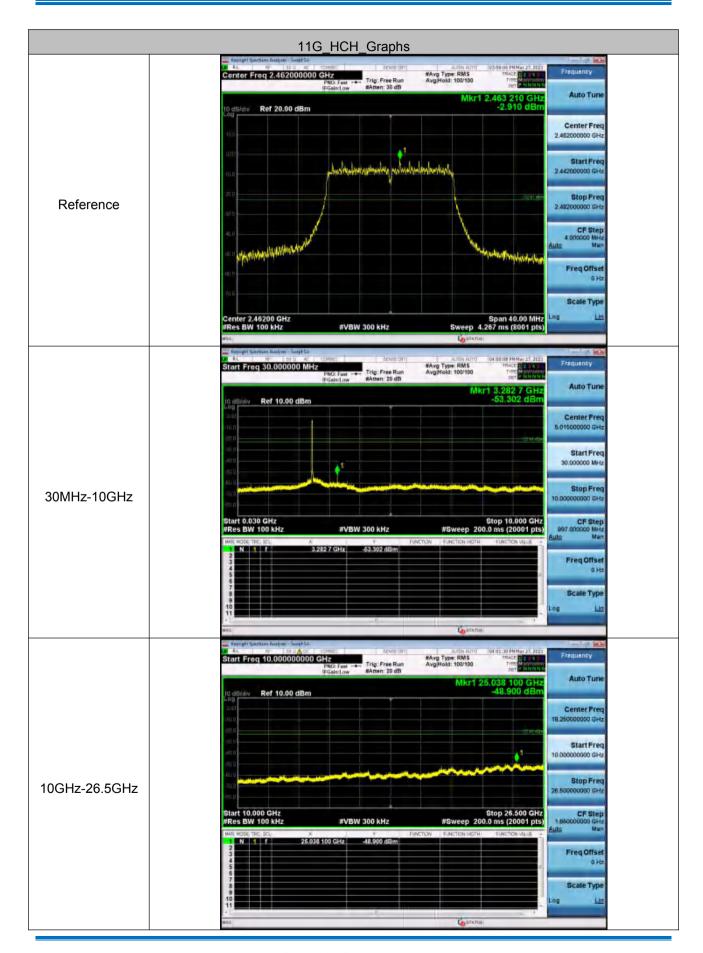




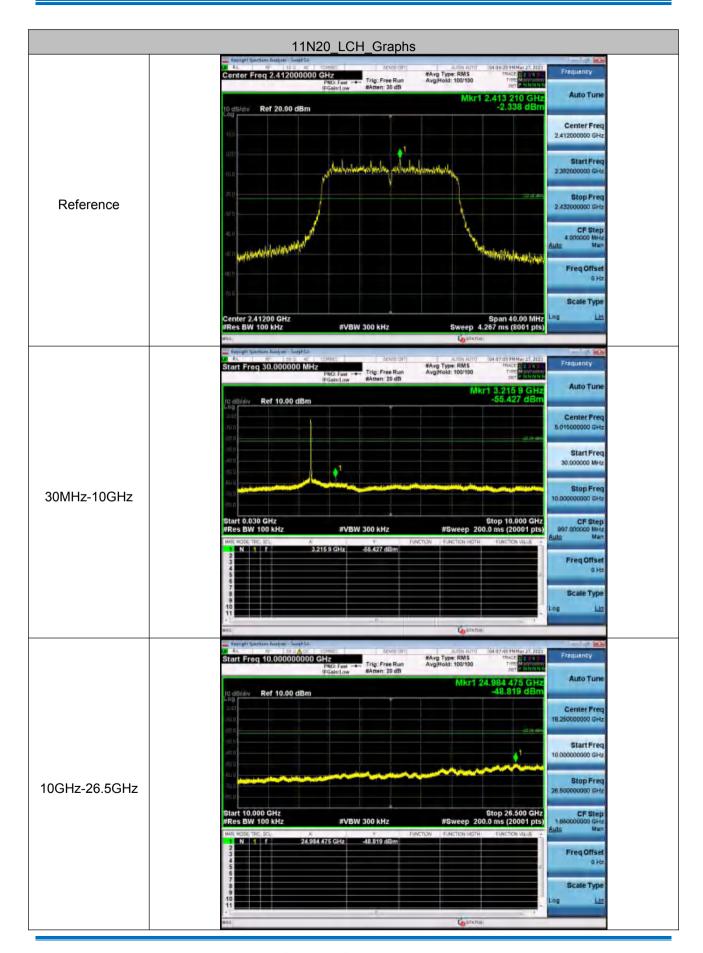




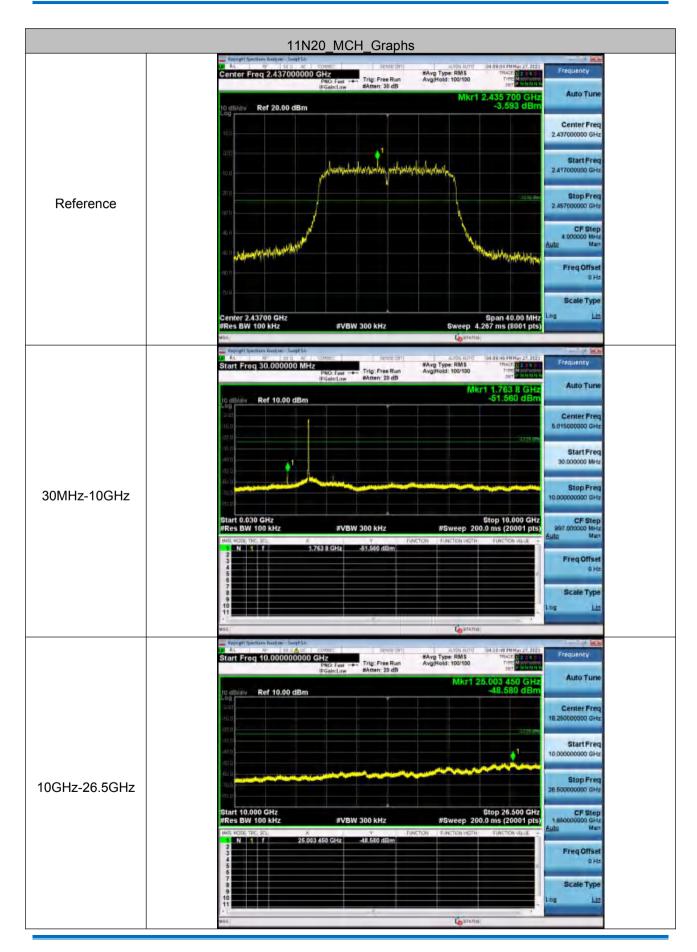




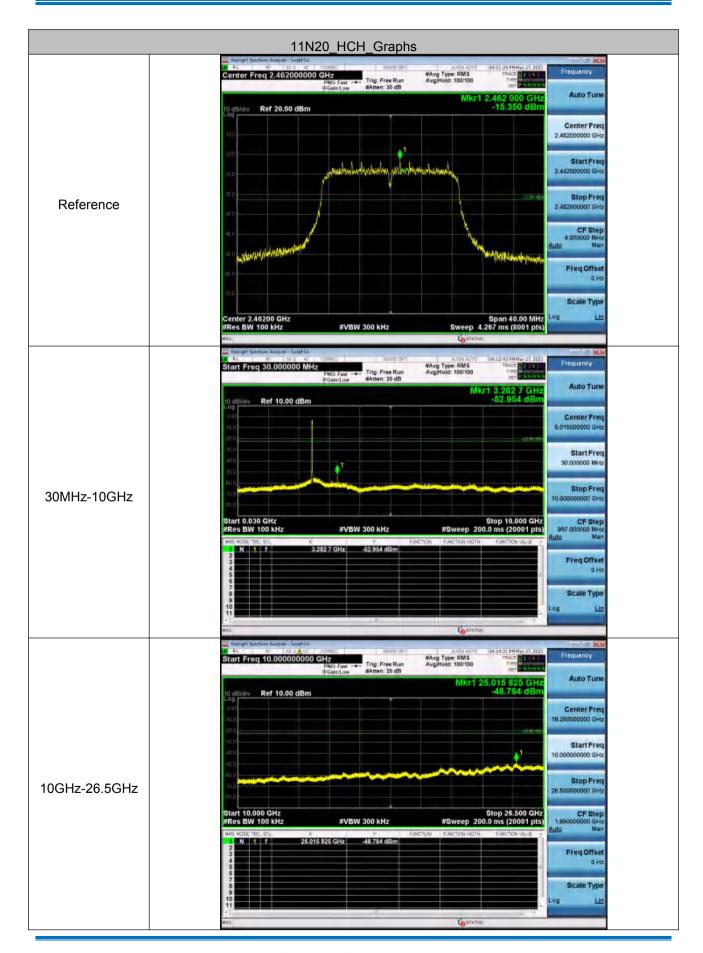




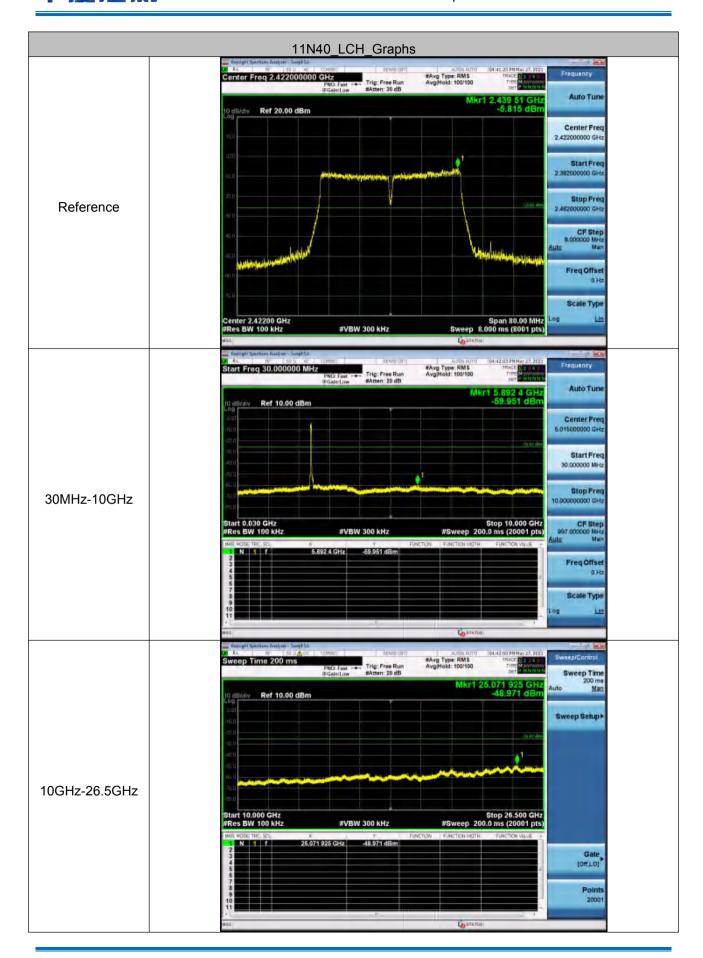








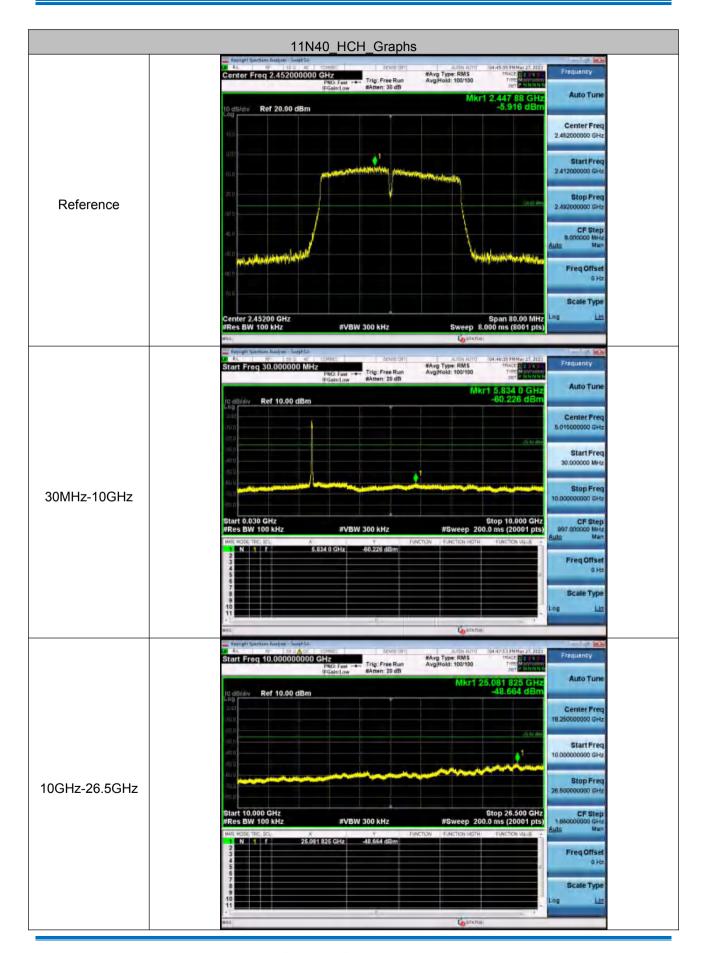














Report No.: CQASZ20210500030EX-01

Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



Report No.: CQASZ20210500030EX-01

5.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	15.209 and 15.20	15						
Test Method:	ANSI C63.10 2013								
Test Site:	Measurement Distance: 3	m (Semi-Anechoid	c Chamber)						
	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				
Receiver Setup:	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak				
Neceiver Setup.	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average				
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak				
	Above 1GHz	Peak	1MHz	3MHz	Peak				
	Above IGHZ	Peak	1MHz	10Hz	Average				
	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				
Limit:	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				
	Note: 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 by the device.								



Report No.: CQASZ20210500030EX-01

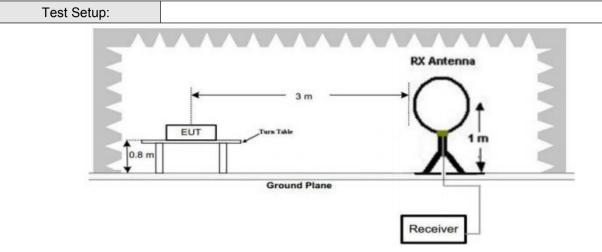
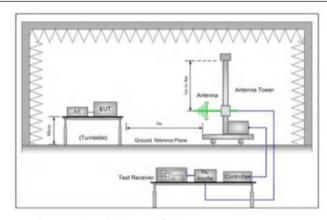


Figure 1. Below 30MHz



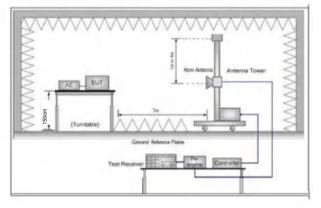


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 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.
 - 2) Above 1G: 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.

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- 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.



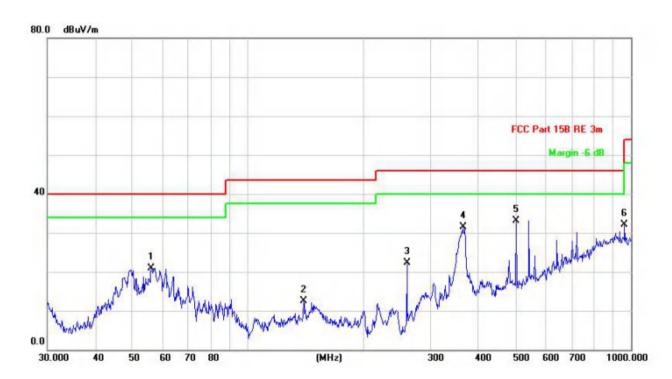
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.				
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.				
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
	g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel				
	h. Repeat above procedures until all frequencies measured was complete.				
Cyploreteny Teet Mede:	Transmitting with all kind of modulations, data rates.				
Exploratory Test Mode:	Transmitting mode,				
	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;				
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case				
Final Test Mode:	of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)				
	For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.				
Test Results:	Pass				



Report No.: CQASZ20210500030EX-01

5.8.1 Radiated emission below 1GHz

30MHz~1GHz		
Test mode:	Transmitting	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		56.0007	35.02	-14.06	20.96	40.00	-19.04	QP			
2		139.8508	26,41	-13.81	12.60	43,50	-30.90	QP			
3		260.1444	36.60	-14.26	22.34	46.00	-23.66	QP			
4		364.2595	41.41	-9.87	31.54	46.00	-14.46	QP			
5	*	501.1790	37.44	-4.38	33.06	46.00	-12.94	QP			
6		962.1623	25.46	6.74	32.20	54.00	-21.80	QP			

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

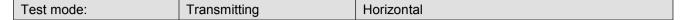
Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

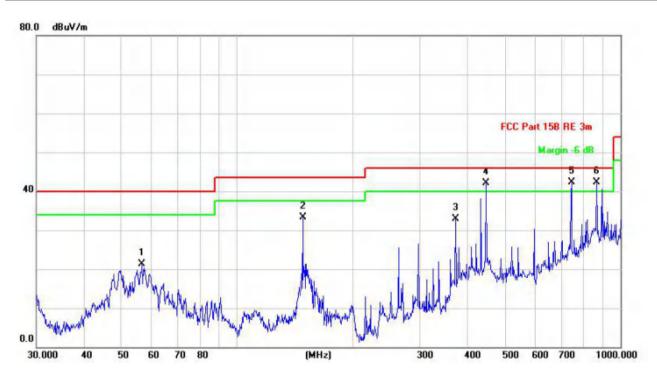
Level = Read Level + Factor,

Over Limit=Level-Limit Line.



Report No.: CQASZ20210500030EX-01





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	ċm	degree	Comment
1		56.5929	35.36	-14.04	21.32	40.00	-18.68	QP			
2		148.4410	45.14	-11.90	33.24	43.50	-10.26	QP			
3		372.0045	42.26	-9.43	32.83	46.00	-13.17	QP			
4	1	446,4141	48.97	-6.77	42.20	46.00	-3.80	QP			
5	1	744.8660	40.78	1.49	42.27	46.00	-3.73	QP			
6	*	866.0878	36.28	6.12	42.40	46.00	-3.60	QP			

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.



Report No.: CQASZ20210500030EX-01

5.8.2 Transmitter emission above 1GHz

Test m	ode:	802.11b	(1Mbps)	Test ch	nannel:	Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4824.000	56.68	-4.26	52.42	74	-21.58	PK	Н
4824.000	40.93	-4.26	36.67	54	-17.33	AV	Н
7236.000	52.81	1.18	53.99	74	-20.01	PK	Н
7236.000	34.21	1.18	35.39	54	-18.61	AV	Н
4824.000	54.35	-4.26	50.09	74	-23.91	PK	V
4824.000	38.87	-4.26	34.61	54	-19.39	AV	V
7236.000	51.29	1.18	52.47	74	-21.53	PK	V
7236.000	35.83	1.18	37.01	54	-16.99	AV	V

Test m	ode:	802.11b	(1Mbps)	Test ch	nannel:	Mid	ldle
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4874.000	58.92	-4.12	54.80	74	-19.20	PK	Н
4874.000	39.30	-4.12	35.18	54	-18.82	AV	Н
7311.000	51.40	1.46	52.86	74	-21.14	PK	Н
7311.000	37.07	1.46	38.53	54	-15.47	AV	Н
4874.000	55.87	-4.12	51.75	74	-22.25	PK	V
4874.000	39.14	-4.12	35.02	54	-18.98	AV	V
7311.000	51.74	1.46	53.20	74	-20.80	PK	V
7311.000	36.87	1.46	38.33	54	-15.67	AV	V



Test m	ode:	802.11b	(1Mbps)	Test ch	nannel:	High	nest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4924.000	57.83	-4.03	53.80	74	-20.20	PK	Н
4924.000	41.02	-4.03	36.99	54	-17.01	AV	Н
7386.000	50.04	1.66	51.70	74	-22.30	PK	Н
7386.000	35.82	1.66	37.48	54	-16.52	AV	Н
4924.000	54.30	-4.03	50.27	74	-23.73	PK	V
4924.000	38.67	-4.03	34.64	54	-19.36	AV	V
7386.000	49.97	1.66	51.63	74	-22.37	PK	V
7386.000	35.06	1.66	36.72	54	-17.28	AV	V

Test m	ode:	802.11g	(6Mbps)	Test ch	nannel:	Low	vest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4824.000	57.03	-4.26	52.77	74	-21.23	PK	Н
4824.000	38.75	-4.26	34.49	54	-19.51	AV	Н
7236.000	52.60	1.18	53.78	74	-20.22	PK	Н
7236.000	34.70	1.18	35.88	54	-18.12	AV	Н
4824.000	55.29	-4.26	51.03	74	-22.97	PK	V
4824.000	40.90	-4.26	36.64	54	-17.36	AV	V
7236.000	50.07	1.18	51.25	74	-22.75	PK	V
7236.000	35.28	1.18	36.46	54	-17.54	AV	V

Test m	ode:	802.11g(6Mbps)		Test ch	nannel:	Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4874.000	57.32	-4.12	53.20	74	-20.80	PK	Н
4874.000	38.99	-4.12	34.87	54	-19.13	AV	Н
7311.000	51.83	1.46	53.29	74	-20.71	PK	Н
7311.000	35.30	1.46	36.76	54	-17.24	AV	Н
4874.000	55.93	-4.12	51.81	74	-22.19	PK	V
4874.000	40.83	-4.12	36.71	54	-17.29	AV	V
7311.000	50.05	1.46	51.51	74	-22.49	PK	V
7311.000	37.00	1.46	38.46	54	-15.54	AV	V





Test m	ode:	802.11g	(6Mbps)	Test ch	nannel:	High	nest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4924.000	56.91	-4.03	52.88	74	-21.12	PK	Н
4924.000	38.81	-4.03	34.78	54	-19.22	AV	Н
7386.000	49.93	1.66	51.59	74	-22.41	PK	Н
7386.000	34.33	1.66	35.99	54	-18.01	AV	Н
4924.000	55.81	-4.03	51.78	74	-22.22	PK	V
4924.000	40.62	-4.03	36.59	54	-17.41	AV	V
7386.000	51.21	1.66	52.87	74	-21.13	PK	V
7386.000	35.83	1.66	37.49	54	-16.51	AV	V

Test m	ode:	802.11n(6.5Mbps)		Test ch	nannel:	Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4824.000	57.01	-4.26	52.75	74	-21.25	PK	Н
4824.000	40.81	-4.26	36.55	54	-17.45	AV	Н
7236.000	51.23	1.18	52.41	74	-21.59	PK	Н
7236.000	34.67	1.18	35.85	54	-18.15	AV	Н
4824.000	56.22	-4.26	51.96	74	-22.04	PK	V
4824.000	40.95	-4.26	36.69	54	-17.31	AV	V
7236.000	50.88	1.18	52.06	74	-21.94	PK	V
7236.000	34.33	1.18	35.51	54	-18.49	AV	V

Test m	ode:	802.11n(6.5Mbps)	Test ch	nannel:	Mid	ldle
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4874.000	59.11	-4.12	54.99	74	-19.01	PK	Н
4874.000	38.19	-4.12	34.07	54	-19.93	AV	Н
7311.000	50.26	1.46	51.72	74	-22.28	PK	Н
7311.000	34.73	1.46	36.19	54	-17.81	AV	Н
4874.000	53.53	-4.12	49.41	74	-24.59	PK	V
4874.000	39.97	-4.12	35.85	54	-18.15	AV	V
7311.000	52.43	1.46	53.89	74	-20.11	PK	V
7311.000	34.41	1.46	35.87	54	-18.13	AV	V





Test m	ode:	802.11n(6.5Mbps)	Test ch	nannel:	High	nest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4924.000	56.71	-4.03	52.68	74	-21.32	PK	Н
4924.000	38.78	-4.03	34.75	54	-19.25	AV	Н
7386.000	49.99	1.66	51.65	74	-22.35	PK	Н
7386.000	34.17	1.66	35.83	54	-18.17	AV	Н
4924.000	53.97	-4.03	49.94	74	-24.06	PK	V
4924.000	40.22	-4.03	36.19	54	-17.81	AV	V
7386.000	52.79	1.66	54.45	74	-19.55	PK	V
7386.000	35.57	1.66	37.23	54	-16.77	AV	V

Test m	ode:	802.11n40(13.5Mbps)		ps) Test channel:		Low	vest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4844.000	59.15	-4.2	54.95	74	-19.05	PK	Н
4844.000	38.49	-4.2	34.29	54	-19.71	AV	Н
7266.000	52.17	1.18	53.35	74	-20.65	PK	Н
7266.000	35.28	1.18	36.46	54	-17.54	AV	Н
4844.000	56.08	-4.2	51.88	74	-22.12	PK	V
4844.000	39.25	-4.2	35.05	54	-18.95	AV	V
7266.000	51.12	1.18	52.30	74	-21.70	PK	V
7266.000	36.83	1.18	38.01	54	-15.99	AV	V

Test m	ode:	802.11n40	0(13.5Mbps)	Test ch	nannel:	Mid	ldle
Frequency	Meter Reading	Factor	Emission Level	Limits	Over		Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	H/V
4874.000	58.30	-4.12	54.18	74	-19.82	PK	Н
4874.000	40.12	-4.12	36.00	54	-18.00	AV	Н
7311.000	52.34	1.46	53.80	74	-20.20	PK	Н
7311.000	34.75	1.46	36.21	54	-17.79	AV	Н
4874.000	54.45	-4.12	50.33	74	-23.67	PK	V
4874.000	39.93	-4.12	35.81	54	-18.19	AV	V
7311.000	51.68	1.46	53.14	74	-20.86	PK	V
7311.000	35.01	1.46	36.47	54	-17.53	AV	V



Report No.: CQASZ20210500030EX-01

Test m	iode:	802.11n40	0(13.5Mbps)	Test ch	nannel:	High	nest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4904.000	57.63	-4.03	53.60	74	-20.40	PK	Н
4904.000	40.59	-4.03	36.56	54	-17.44	AV	Н
7356.000	50.80	1.66	52.46	74	-21.54	PK	Н
7356.000	35.97	1.66	37.63	54	-16.37	AV	Н
4904.000	55.14	-4.03	51.11	74	-22.89	PK	V
4904.000	38.40	-4.03	34.37	54	-19.63	AV	V
7356.000	50.91	1.66	52.57	74	-21.43	PK	V
7356.000	34.78	1.66	36.44	54	-17.56	AV	V

Remark:

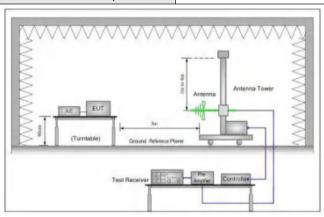
- 1) The 1Mbps of rate of 802.11b is the worst case.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



Report No.: CQASZ20210500030EX-01

5.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance: 3n	Measurement Distance: 3m (Semi-Anechoic Chamber)						
	Frequency	Limit (dBuV/m @3m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak Value					
	88MHz-216MHz	43.5	Quasi-peak Value					
Limit:	216MHz-960MHz	46.0	Quasi-peak Value					
	960MHz-1GHz	54.0	Quasi-peak Value					
	Above 1GHz	54.0	Average Value					
	Above IGHZ	74.0	Peak Value					
Test Setup:		_						



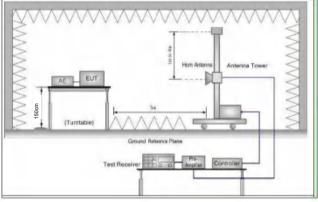


Figure 1. 30MHz to 1GHz

Test Procedure:

Figure 2. Above 1 GHz

1) Below 1G: The EUT was placed on the top of a rotating table 0.8 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. 2) Above 1G: 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. Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 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.



	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 lowest channel , the Highest channel				
	h. Repeat above procedures until all frequencies measured was complete.				
Contanata mo Ta at Maria	Transmitting with all kind of modulations, data rates.				
Exploratory Test Mode:	Transmitting mode.				
	1Mbps of rate is the worst case of 802.11b;				
	6Mbps of rate is the worst case of 802.11g;				
Final Test Mode:	6.5Mbps of rate is the worst case of 802.11n(HT20);				
	13.5Mbps of rate is the worst case of 802.11n(HT40)				
	Only the worst case is recorded in the report.				
Test Results:	Pass				



Report No.: CQASZ20210500030EX-01

Test data:

Worse case	mode:	802.11b(1M	Mbps)	Test chann	el:	Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2390.000	59.53	-9.2	50.33	74	-23.67	PK	Н
2390.000	45.07	-9.2	35.87	54	-18.13	AV	Н
2400.000	60.01	-9.39	50.62	74	-23.38	PK	Н
2400.000	41.32	-9.39	31.93	54	-22.07	AV	Н
2390.000	61.21	-9.2	52.01	74	-21.99	PK	V
2390.000	44.12	-9.2	34.92	54	-19.08	AV	V
2400.000	61.23	-9.39	51.84	74	-22.16	PK	V
2400.000	42.94	-9.39	33.55	54	-20.45	AV	V

Worse case	mode:	802.11b(1Mbps)		Test channel:		Highest	
	Meter		Emission				Ant. Pol.
Frequency	Reading	Factor	Level	Limits	Over	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2483.500	59.86	-9.29	50.57	74	-23.43	PK	Н
2483.500	42.20	-9.29	32.91	54	-21.09	AV	Н
2483.500	60.35	-9.29	51.06	74	-22.94	PK	V
2483.500	43.10	-9.29	33.81	54	-20.19	AV	V



Worse case	mode:	802.11g(6N	Mbps)	Test chann	el:	Lowest	
	Meter		Emission				Ant. Pol.
Frequency	Reading	Factor	Level	Limits	Over	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2390.000	58.70	-9.2	49.50	74	-24.50	PK	Н
2390.000	42.44	-9.2	33.24	54	-20.76	AV	Н
2400.000	61.07	-9.39	51.68	74	-22.32	PK	Н
2400.000	42.13	-9.39	32.74	54	-21.26	AV	Н
2390.000	59.87	-9.2	50.67	74	-23.33	PK	V
2390.000	42.84	-9.2	33.64	54	-20.36	AV	V
2400.000	60.82	-9.39	51.43	74	-22.57	PK	V
2400.000	42.26	-9.39	32.87	54	-21.13	AV	V

Worse case	mode:	802.11g(6N	Mbps)	Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
2483.500	60.05	-9.29	50.76	74	-23.24	PK	Н
2483.500	42.08	-9.29	32.79	54	-21.21	AV	Н
2483.500	58.81	-9.29	49.52	74	-24.48	PK	V
2483.500	43.94	-9.29	34.65	54	-19.35	AV	V



Worse case	mode:	802.11n(HT	20)(6.5Mbps)	Test chann	el:	Lowest	
	Meter		Emission				Ant. Pol.
Frequency	Reading	Factor	Level	Limits	Over	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2390.000	61.35	-9.2	52.15	74	-21.85	PK	Н
2390.000	44.06	-9.2	34.86	54	-19.14	AV	Н
2400.000	58.74	-9.39	49.35	74	-24.65	PK	Н
2400.000	40.15	-9.39	30.76	54	-23.24	AV	Н
2390.000	60.11	-9.2	50.91	74	-23.09	PK	V
2390.000	44.83	-9.2	35.63	54	-18.37	AV	V
2400.000	59.65	-9.39	50.26	74	-23.74	PK	V
2400.000	42.05	-9.39	32.66	54	-21.34	AV	V

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
2483.500	58.63	-9.29	49.34	74	-24.66	PK	Н
2483.500	43.39	-9.29	34.10	54	-19.90	AV	Н
2483.500	60.52	-9.29	51.23	74	-22.77	PK	V
2483.500	42.34	-9.29	33.05	54	-20.95	AV	V



Report No.: CQASZ20210500030EX-01

Worse case mode:		802.11n(HT40)(13.5Mbps)		Test channel:		Lowest	
	Meter		Emission				Ant. Pol.
Frequency	Reading	Factor	Level	Limits	Over	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2390.000	60.77	-9.2	51.57	74	-22.43	PK	Н
2390.000	44.05	-9.2	34.85	54	-19.15	AV	Н
2400.000	61.15	-9.39	51.76	74	-22.24	PK	Н
2400.000	41.31	-9.39	31.92	54	-22.08	AV	Н
2390.000	61.49	-9.2	52.29	74	-21.71	PK	V
2390.000	44.95	-9.2	35.75	54	-18.25	AV	V
2400.000	59.18	-9.39	49.79	74	-24.21	PK	V
2400.000	42.86	-9.39	33.47	54	-20.53	AV	V

Worse case mode:		802.11n(HT40)(13.5Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
2483.500	58.55	-9.29	49.26	74	-24.74	PK	Н
2483.500	44.95	-9.29	35.66	54	-18.34	AV	Н
2483.500	60.01	-9.29	50.72	74	-23.28	PK	V
2483.500	45.05	-9.29	35.76	54	-18.24	AV	V

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

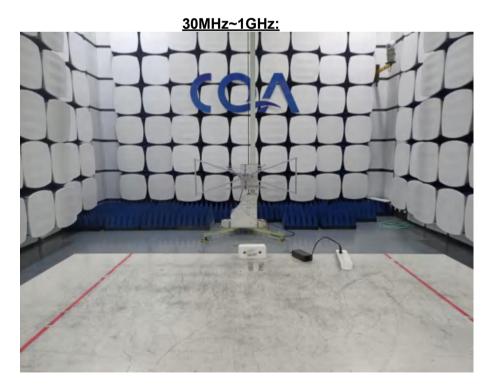
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor



6 Photographs - EUT Test Setup

Please refer to test setup file













Photographs - EUT Constructional Details



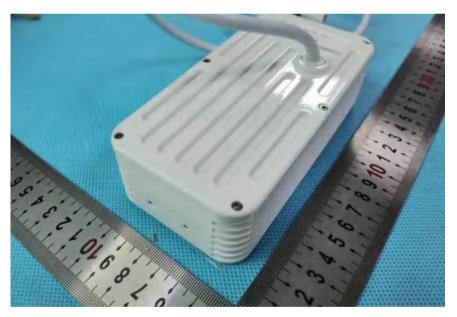














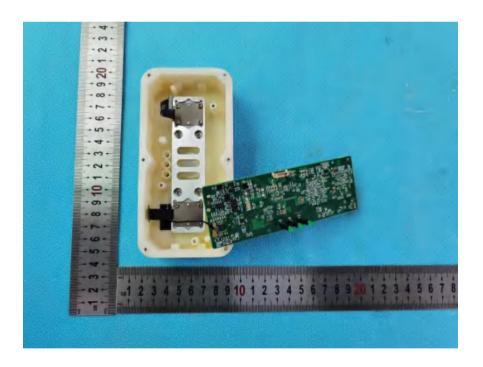






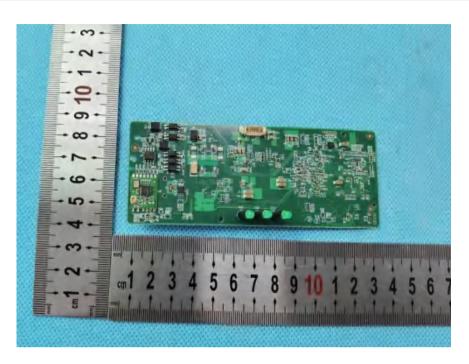
Internal Photos

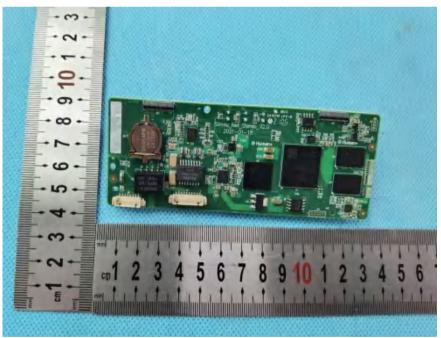




















THE END