



26094838E04

Report No.: ET-

TEST REPORT

Applicant: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address of Applicant: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIALZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China
Manufacturer: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address of Manufacturer: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIALZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China
Product Name: Smart phone
Model No.: C26 Mini, C26, C26 S, C26 E, C26 Pro, C26 Plus, C26 Ultra, C26 Max, C26 GT, C26 Go, C26 Lite
Trade Mark: OUKITE
FCC ID: 2ANMU-C26MINI
Applicable standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407
Date of Test: Sept. 03, 2026- Sept. 15, 2026
Date of report issued: Sept. 15, 2026

Remark:

The results shown in this test report refer only to the sample(s) tested , this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

Prepared By

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Report Revision History		
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1 Test Summary

Test Item	Section in CFR 47	Result	Test by
Antenna requirement	47CFR part 15.203	Pass	/
AC Power Line Conducted Emission	47CFR part 15.207	Pass	Jason Huang
Conducted Output Power	47CFR part 15.407 (a)(1)/(a)(3)	Pass	Kara Wu
26dB Bandwidth	47CFR part 15.407 (a)(12)	Pass	Kara Wu
6dB Bandwidth	47CFR part 15.407 (e)	Pass	Kara Wu
Power Spectral Density	47CFR part 15.407(a)(1)/(a)(3)	Pass	Kara Wu
Band Edge	47CFR part 15.407(b)(1)/(b)(4)	Pass	Kara Wu
Spurious Emission	47CFR part 15.205/15.209 47CFR part 15.407(b)(1)/(b)(4)/(b)(8)	Pass	Jason Huang
Frequency Stability	47CFR part 15.407(g)	Pass	Kara Wu

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
3. Note: Compliance determination rules
 - 1).The Compliance determination of test results does not take into account measurement uncertainty. Measurement results are determined based on regulatory limitations or requirements specified by the applicant/manufacturur. If measurement uncertainty is taken into account, the applicant/manufacturur will bear all possible risks of non-compliance.
 - 2).The measurement uncertainty please refer to each test result in the "Measurement Uncertainty"

1.1 Measurement Uncertainty

Test Item	Measurement Uncertainty	Notes
Occupied Channel Bandwidth	0.72%	(1)
RF output power, conducted	±0.67 dB	(1)
Power Spectral Density, conducted	±0.51 dB	(1)
Unwanted Emissions, conducted	±0.64 dB	(1)
AC Power Line Conducted Emission	± 3.38 dB	(1)
Radiated emissions 9K-30MHz	±4.26 dB	(1)
Radiated emissions 30M- 1GHz	±4.88 dB	(1)
Radiated emissions 1GHz-18GHz	± 4.16 dB	(1)
Radiated emissions 18GHz-40GHz	±4.14 dB	(1)
Frequency error	Uc=6X10 ⁻⁷	(1)
Duty Cycle	0.03	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

2 General Information

2.1 General Description of EUT

Product Name:	Smart phone
Model No.:	C26,C26 S,C26 E,C26 Pro,C26 Plus,C26 Ultra,C26 Max,C26 GT,C26 Go,C26 Lite
Difference of model(s)	Only different in model name
Test Model:	C26 Mini
Hardware Version:	N/A
Software Version:	N/A
Power supply:	Input: DC 5V 2A
Adapter information:	Model: S215 Brand: N/A Rated Voltage: 3.85V Charge Limit Voltage: 4.4V Capacity: 2300mAh Manufacturer: Zhongshan Jiuliyuan New Energy Technology Co., Ltd. Address: 2-3F, Building 4; 2-4F, Building 5, No. 20, Beichen Road, Cuiheng New Area, Nanlang Street, Zhongshan City, Guangdong Province, China
Battery:	Model: HJ-0502000N2-US Brand: N/A Input: 100-240V~50/60Hz 0.3A Output: 5.0V~2.0A Manufacturer: SHENZHEN HUAJIN ELECTRONICSCO LTD Address: BLK E 518000/BLK E XINZHONGQIAO INDUSTRIAL PARK BAOLONG SIX RD BAOLONG INDUSTRIAL CITY LONGGANGDISTRICT,SHENZHEN,GUANGDONG,518000CHINA
Radio Technology:	5G RLAN
Operation Frequency:	☒ 5180-5240MHz for 802.11a/n20/ac20 5190-5230MHz for 802.11n40/ac40 5210MHz for 802.11ac80 ☒ 5745-5825 MHz for 802.11a/n20/ac20; 5755-5795 MHz for 802.11n40/ac40; 5775MHz for 802.11 ac80
Channel numbers:	☒ 4 channels for 802.11a/n20/ac20 in the 5180-5240MHz band; 2 channels for 802.11 n40/ac40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; ☒ 5 channels for 802.11a/n20/ac20 in the 5745-5825MHz band ; 2 channels for 802.11 n40/ac40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band
Channel bandwidth:	802.11an20/ ac20 : 20MHz 802.11n40/ac40 : 40MHz 802.11ac80: 80MHz
Modulation technology:	Orthogonal Frequency Division Multiplexing (OFDM) with BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM
Antenna Type:	FPC antenna
Antenna gain:	1.19dBi
Note:	



1. For more details, refer to the user's manual of the EUT.
2. Antenna information is provided by applicant, Testing lab is not responsible for the accuracy of the information

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	38	5190MHz	40	5200MHz	42	5210MHz
44	5220MHz	46	5230MHz	48	5240MHz	/	/
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	151	5755MHz	153	5765MHz	155	5775MHz
157	5785MHz	159	5795MHz	161	5805MHz	/	/
165	5825MHz	/					

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:

Test channel	Frequency (MHz)		
	802.11 a /n20/ac20	802.11 n40/ac40	802.11ac80
Lowest channel	5180	5190	5210
Middle channel	5200	X	X
Highest channel	5240		

Test channel	Frequency (MHz)		
	802.11 a /n20/ac20	802.11 n40/ac40	802.11ac80
Lowest channel	5745	5755	5775
Middle channel	5785	X	X
Highest channel	5825		

2.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
<i>Remark: the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data...</i>	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pretest Mode	Description
Mode 1	802.11a / n20/ ac20 CH36/CH40/CH48 802.11a /n 20/ac 20 CH149/CH157/CH165
Mode 2	802.11n 40/ac40 CH38/CH46 802.11n 40/ac40 CH 151/CH159
Mode 3	802.11 ac80 CH 42/CH155
Mode 4	/
Mode 5	Link Mode

Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a / n20/ ac20 CH36/CH40/CH48 802.11a /n 20/ac 20 CH149/CH157/CH165
Mode 2	802.11n 40/ac40 CH38/CH46 802.11n 40/ac40 CH 151/CH159
Mode 3	802.11 ac80 CH 42/CH155
Mode 4	/

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

2.3 Description of Support Units

No.	Description	Manufacturer	Model	Serial Number
1	/	/	/	/
2	/	/	/	/
3	/	/	/	/

2.4 Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
CNAS Registration Number:	L11864
A2LA Certificate Number:	6640.01
FCC Designation Number:	CN1326
FCC Test Firm Registration:	183064
IC Company Number:	28440
IC CAB identifier:	CN0132
Laboratory location:	No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

2.5 Additional Instructions

Test Software	Engineering mode
Power level setup	see the form below

RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	U-NII-1 (5150MHz-5250MHz)	802.11a	1.19	15	Engineering mode
		802.11n(HT20)		15	
		802.11n(HT40)		15	
		802.11ac(VHT20)		15	
		802.11ac(VHT40)		15	
		802.11ac(VHT80)		15	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	U-NII-3 (5725MHz-5850MHz)	802.11a	1.19	20	Engineering mode
		802.11n(HT20)		20	
		802.11n(HT40)		20	
		802.11ac(VHT20)		20	
		802.11ac(VHT40)		20	
		802.11ac(VHT80)		20	



3 Test Instruments list

Conducted Emission

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI3	102696	2026.3.05	2027.3.04
2	Artificial power network	schwarabeck	NSLK8127	8127483	2026.3.05	2027.3.04
3	Artificial power network	ETS	3186/2NM	1132	2026.3.05	2027.3.04
4	10dB attenuator	HUBER+SUHNER	10dB	/	2026.3.05	2027.3.04
5	Cable 4	HUBER SUNNER	3M	/	2026.3.05	2027.3.04
6	Absorbing Clamp	schwarabeck	MDS21	D69250	2026.3.05	2027.3.04

Radiated Emission & RF Conducted test:

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101032	2026.3.05	2027.3.04
2	Broadband antenna	schwarabeck	VULB9168	1064	2026.3.11	2028.3.10
3	Horn antenna	schwarabeck	BBHA9120D	9120D-1145	2026.3.08	2028.3.07
4	Amplifier	EMtrace	RP01A	50117	2026.3.05	2027.3.04
5	Amplifier	Space-Dtronic	EWLAN0118G-P40	19113001	2026.3.05	2027.3.04
6	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2026.3.05	2027.3.04
7	Power detector meter	MWRFTest	MW100-PSB	MW201020JYT	2026.3.05	2027.3.04
8	Signal generator	Agilent	N5182A	MY49060455	2026.3.05	2027.3.04
9	Spectrum analyzer	Rohde&schwarz	FSV-40N	102137	2026.3.05	2027.3.04
10	Amplifier	SKET	LNPA_1840-50	SK2019040302	2026.3.05	2027.3.04
11	Horn antenna	schwarabeck	BBHA 9170	946	2026.3.08	2028.3.07
12	Loop antenna	schwarabeck	FMZB 1519 B	128	2026.3.08	2028.3.07
13	Cable 6	HUBER SUNNER	0.5M	/	2026.3.05	2027.3.04
14	Cable7	HUBER SUNNER	2.0M	/	2026.3.05	2027.3.04
15	Cable8	HUBER SUNNER	6.0M	/	2026.3.05	2027.3.04
16	Filter	Xin bo	XBLBQ-GTA29	210410-3-2	2026.3.05	2027.3.04
17	Power Sensor	Keysight	U2021XA	MY54111006	2026.3.05	2027.3.04
18	Temp. & Humidity Chamber	Jiecheng Instrument	QA-LP-80	20160705001	2026/3/06	2027/3/05

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

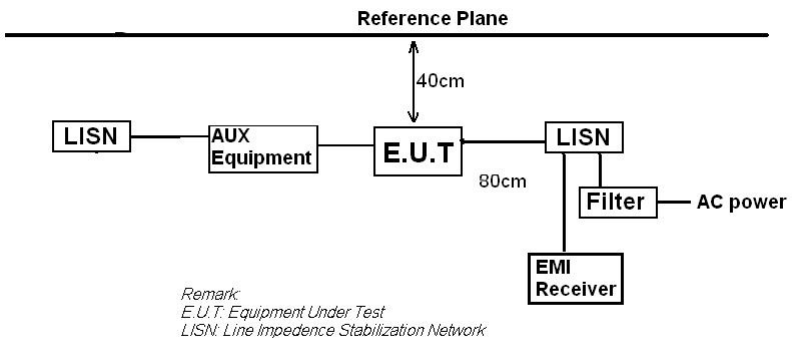
Software Name	Manufacturer	Model	Version
RF test software	MWRFTest	MTS 8310	V2.0.0.0
Conducted test software	EZ-EMC	Farad	Ver.EMC-CON 3A1.1
Radiated test software	EZ-EMC	Farad	Ver.FA-03A2 RE

4 Test results and Measurement Data

4.1 Antenna requirement

Standard requirement:	47CFR Part 15.203
<i>15.203 requirement:</i> <i>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.</i>	
E.U.T Antenna:	
The antenna is FPC Antenna, the best case gain of the antenna is 1.19dBi, reference to the Internal photos for details.	

4.2 Conducted Emissions

Test Requirement:	47CFR Part 15.207						
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 §6.2						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto						
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 setup:	Reference Plane  Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network						
Test procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. 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 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 on conducted measurement.						
Test Instruments:	Refer to section 3.0 for details						
Test mode:	Refer to section 2.2 for details						
Test environment:	Temp.:	23.9°C	Humid.:	55%	Press.:	1012mbar	
Test voltage:	AC 120V 60Hz						
Test results:	Pass						

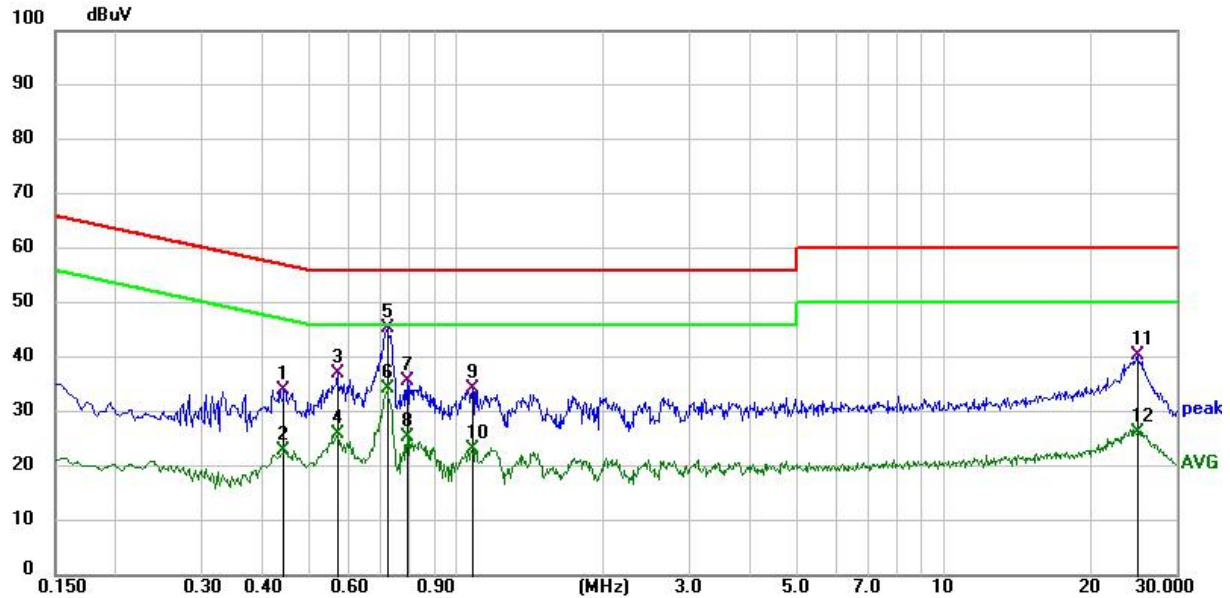
Remark:

1. Both high voltage and low voltage have been tested, and the report only shows the worst case data with AC 120V/60Hz.
2. All mode have been tested, the report only shows the worst mode of 802.11n20 (5200MHz)

Measurement Result

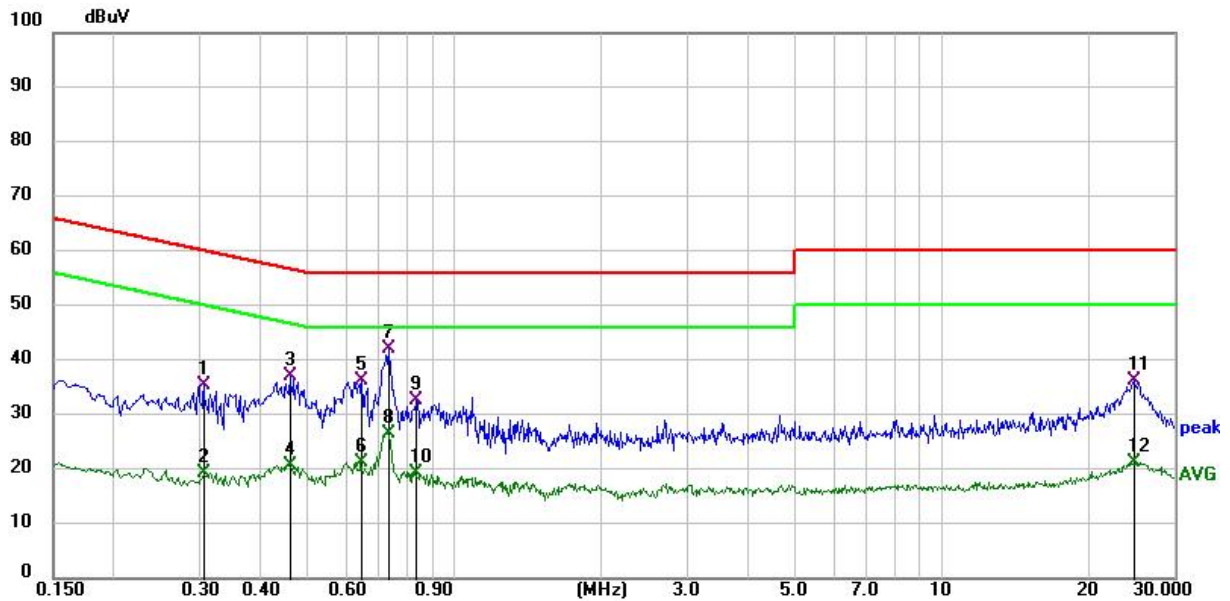
5.2G WIFI

Line:



No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Pass/Fail
1	0.4420	14.61	19.39	34.00	57.02	-23.02	QP	Pass
2	0.4420	3.62	19.39	23.01	47.02	-24.01	AVG	Pass
3	0.5700	17.74	19.39	37.13	56.00	-18.87	QP	Pass
4	0.5700	6.62	19.39	26.01	46.00	-19.99	AVG	Pass
5 *	0.7180	26.09	19.37	45.46	56.00	-10.54	QP	Pass
6	0.7180	14.88	19.37	34.25	46.00	-11.75	AVG	Pass
7	0.7900	16.39	19.36	35.75	56.00	-20.25	QP	Pass
8	0.7900	6.03	19.36	25.39	46.00	-20.61	AVG	Pass
9	1.0740	15.09	19.35	34.44	56.00	-21.56	QP	Pass
10	1.0740	3.88	19.35	23.23	46.00	-22.77	AVG	Pass
11	24.8819	20.71	19.69	40.40	60.00	-19.60	QP	Pass
12	24.8819	6.45	19.69	26.14	50.00	-23.86	AVG	Pass

Neutral:



No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Pass/Fail
1	0.3060	15.91	19.37	35.28	60.08	-24.80	QP	Pass
2	0.3060	0.02	19.37	19.39	50.08	-30.69	AVG	Pass
3	0.4580	17.82	19.35	37.17	56.73	-19.56	QP	Pass
4	0.4580	1.46	19.35	20.81	46.73	-25.92	AVG	Pass
5	0.6419	16.84	19.38	36.22	56.00	-19.78	QP	Pass
6	0.6419	1.94	19.38	21.32	46.00	-24.68	AVG	Pass
7 *	0.7300	22.75	19.41	42.16	56.00	-13.84	QP	Pass
8	0.7300	7.22	19.41	26.63	46.00	-19.37	AVG	Pass
9	0.8340	13.26	19.40	32.66	56.00	-23.34	QP	Pass
10	0.8340	0.03	19.40	19.43	46.00	-26.57	AVG	Pass
11	24.6900	16.52	19.74	36.26	60.00	-23.74	QP	Pass
12	24.6900	1.52	19.74	21.26	50.00	-28.74	AVG	Pass

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor + Cable Loss
4. *If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.*

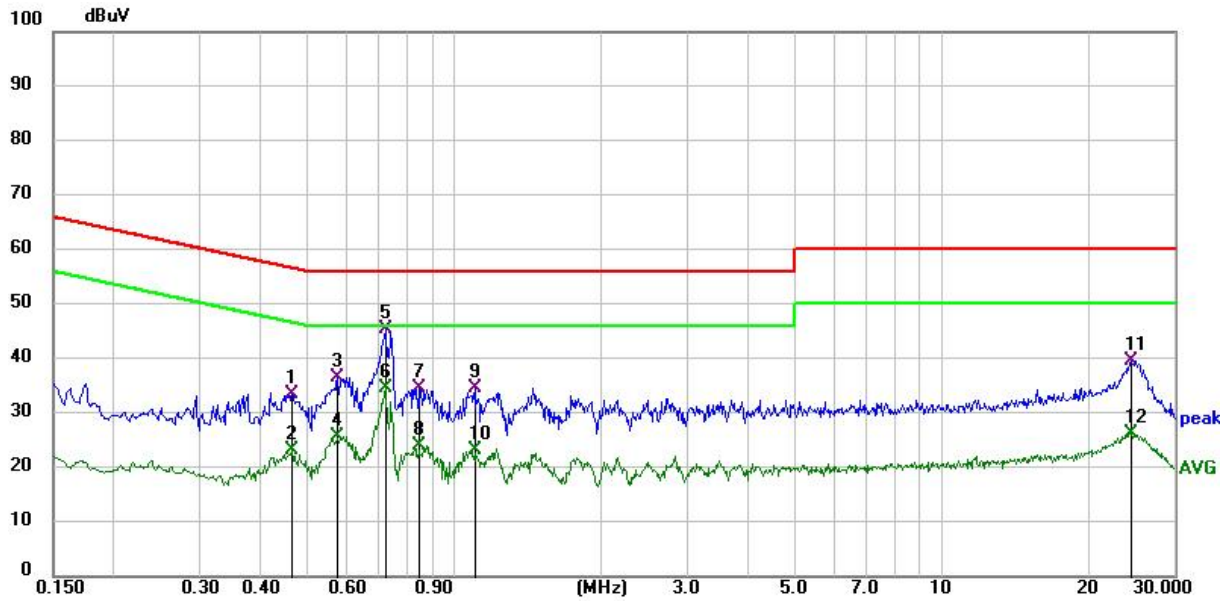
Remark:

1. Both high voltage and low voltage have been tested, and the report only shows the worst case data with AC 120V/60Hz.

2. All mode have been tested, the report only shows the worst mode of 802.11a (5825MHz)

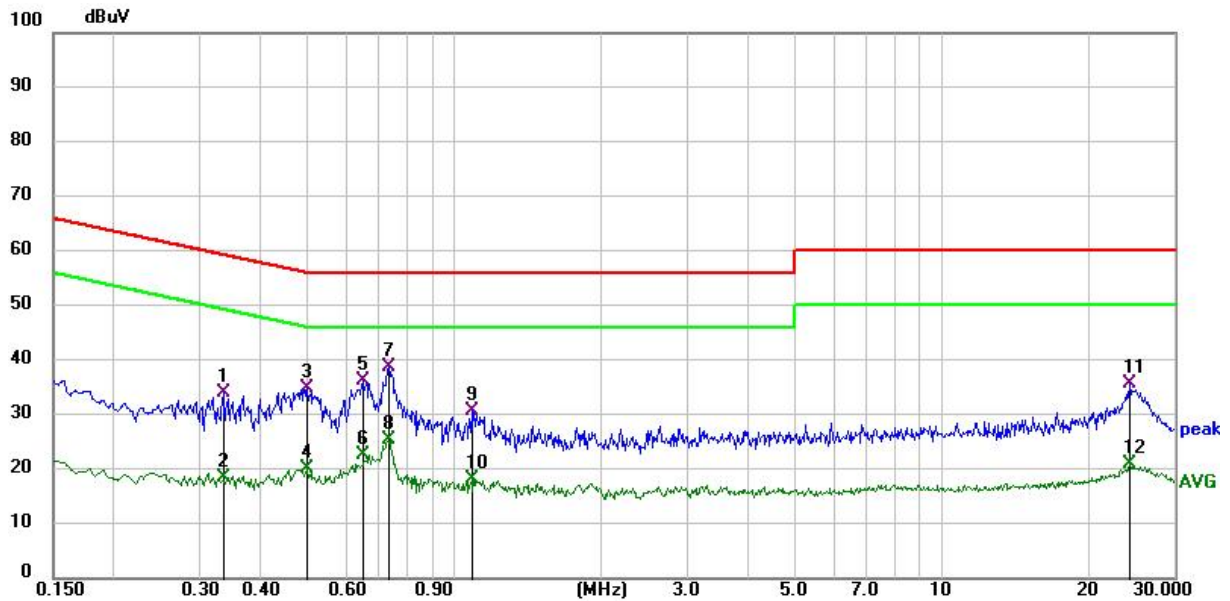
5.8G WIFI

Line:



No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Pass/Fail
1	0.4620	14.16	19.39	33.55	56.66	-23.11	QP	Pass
2	0.4620	3.74	19.39	23.13	46.66	-23.53	AVG	Pass
3	0.5740	17.18	19.39	36.57	56.00	-19.43	QP	Pass
4	0.5740	6.29	19.39	25.68	46.00	-20.32	AVG	Pass
5 *	0.7180	26.07	19.37	45.44	56.00	-10.56	QP	Pass
6	0.7180	15.16	19.37	34.53	46.00	-11.47	AVG	Pass
7	0.8420	15.24	19.36	34.60	56.00	-21.40	QP	Pass
8	0.8420	4.57	19.36	23.93	46.00	-22.07	AVG	Pass
9	1.0980	15.28	19.35	34.63	56.00	-21.37	QP	Pass
10	1.0980	3.78	19.35	23.13	46.00	-22.87	AVG	Pass
11	24.4220	19.94	19.69	39.63	60.00	-20.37	QP	Pass
12	24.4220	6.52	19.69	26.21	50.00	-23.79	AVG	Pass

Neutral:

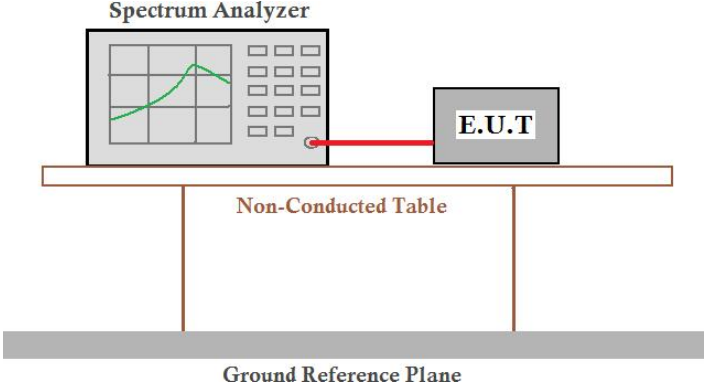


No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Pass/Fail
1	0.3339	14.60	19.36	33.96	59.35	-25.39	QP	Pass
2	0.3339	-0.75	19.36	18.61	49.35	-30.74	AVG	Pass
3	0.4980	15.48	19.34	34.82	56.03	-21.21	QP	Pass
4	0.4980	0.67	19.34	20.01	46.03	-26.02	AVG	Pass
5	0.6500	16.91	19.39	36.30	56.00	-19.70	QP	Pass
6	0.6500	3.37	19.39	22.76	46.00	-23.24	AVG	Pass
7 *	0.7300	19.24	19.41	38.65	56.00	-17.35	QP	Pass
8	0.7300	6.09	19.41	25.50	46.00	-20.50	AVG	Pass
9	1.0820	11.43	19.39	30.82	56.00	-25.18	QP	Pass
10	1.0820	-1.23	19.39	18.16	46.00	-27.84	AVG	Pass
11	24.2420	15.84	19.76	35.60	60.00	-24.40	QP	Pass
12	24.2420	1.21	19.76	20.97	50.00	-29.03	AVG	Pass

Notes:

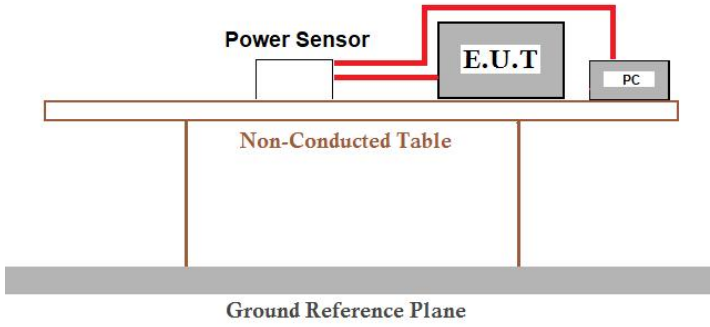
5. An initial pre-scan was performed on the line and neutral lines with peak detector.
6. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
7. Final Level =Receiver Read level + LISN Factor + Cable Loss
8. *If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.*

4.3 Duty cycle

Test Method :	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024§ § 12.2	
Limit:	/	
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.8℃	Humid.: 51%RH
Test voltage:	DC 3.85V	
Test results:	Pass	

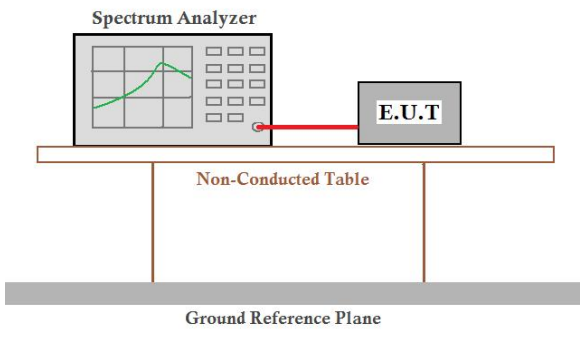
Note: The test data please refer to APPENDIX 1.

4.4 Conducted Output Power

Test Requirement:	47CFR Part 15.407 (a)(1)/(a)(3)	
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 § 12.4.3.1	
Limit:	5150-5250MHz : 250mW 5725~5850MHz : 1W	
Test setup:	 The diagram illustrates the test setup. A Power Sensor is connected via red lines to an E.U.T. (Equipment Under Test) and a PC. Both the E.U.T. and the PC are placed on a Non-Conducted Table. The table is supported by two legs and sits on a Ground Reference Plane, which is represented by a thick grey bar at the bottom.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.8℃	Humid.: 51%RH
Test voltage:	DC 3.85V	
Test results:	Pass	

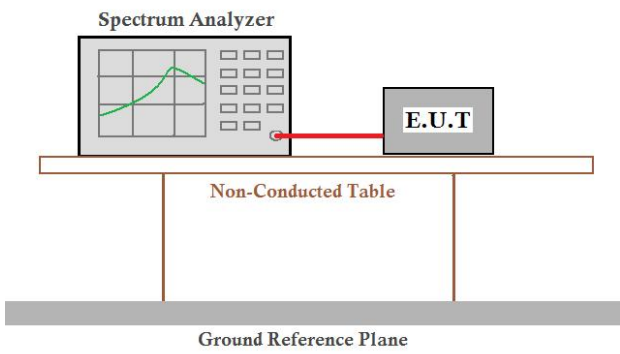
Note: The test data please refer to APPENDIX 1.

4.5 Occupy Bandwidth

Test Requirement:	47CFR Part 15.407(a)(12)&15.407(e),	
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01, ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024§12.5	
Limit:	Measurements in the 5.725-5.85 GHz band, the minimum bandwidth 6 dB bandwidth of U-NII devices shall be at least 500KHz. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.	
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.8℃	Humid.: 51%RH
Test voltage:	DC 3.85V	
Test results:	Pass	

Note: The test data please refer to APPENDIX 1.

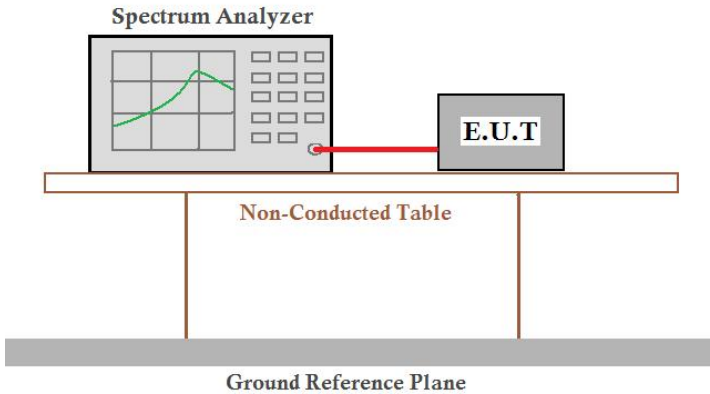
4.6 Power Spectral Density

Test Requirement:	47CFR Part 15.407(a)(1)/ (a)(3)	
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01, ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024§12.6	
Limit:	Frequency band (MHz)	Limit
	5150-5250	≤17dBm/1MHz for master device
		≤11dBm/1MHz for client device
	5250-5350	≤11dBm/1MHz for client device
	5470-5725	≤11dBm/1MHz for client device
	5725-5850	≤30dBm/500kHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.8℃	Humid.: 51%RH
Test voltage:	DC 3.85V	
Test results:	Pass	

Note: The test data please refer to APPENDIX 1.

4.7 Band edge

4.7.1 Conducted test Method

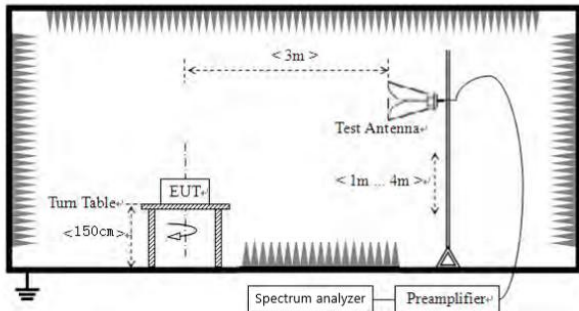
Test Requirement:	47CFR Part 15.209 and 15.205
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 §6.10.2
Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating solely in the 5.725-5.850 GHz band: (i) 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.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane, which is represented by a thick grey bar at the bottom.
Test Procedure:	1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range. 3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span. 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency. 5. Repeat above procedures until all measured frequencies were complete..



Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.8°C	Humid.: 51%RH
Test voltage:	DC 3.85V	
Test results:	Pass	

Note: The test data please refer to APPENDIX 1.

4.7.2 Radiated test Method

Test Requirement:	47CFR Part 15.209 and 15.205				
Test Method:	ANSI C63.10-2020+COR 1-2023 § 6.10				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		AV	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0		Average Value
			68.2		Peak Value
	Undesirable emission limits:				
	(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.				
	(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.				
(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.					
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.					
Test setup:	Above 1GHz				
					

Test Procedure:	a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.8℃	Humid.: 51%RH
Test voltage:	DC 3.85V	
Test results:	Pass	

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. The emission levels of other frequencies are very lower than the limit and not show in test report.

3. Two antennas are tested, only the worst case's (Main Antenna) data was showed.

4. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

5. According to KDB 789033 D02v02r01 section G) 1) d), for measurements above 1000 MHz @3m distance, the limit of field strength is computed as follows:

$$E[dBuV/m] = EIRP[dBm] + 95.2;$$

For example, if EIRP = -27dBm

$$E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.$$

$$E[dBuV/m] = 10 + 95.2 = 105.2dBuV/m.$$

$$E[dBuV/m] = 15.6 + 95.2 = 110.8dBuV/m.$$

$$E[dBuV/m] = 27 + 95.2 = 122.2dBuV/m$$



IEEE 802.11a Operation Frequency:5180MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	52.69	-7.53	45.16	74	-28.84	Horizontal	PK
5150	51.19	-7.53	43.66	74	-30.34	Vertical	PK
5150	42	-7.53	34.47	54	-19.53	Horizontal	AV
5150	41.99	-7.53	34.46	54	-19.54	Vertical	AV

IEEE 802.11a Operation Frequency:5240MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	47.18	-7.06	40.12	74	-33.88	Horizontal	PK
5350	52.64	-7.06	45.58	74	-28.42	Vertical	PK
5350	39.21	-7.06	32.15	54	-21.85	Horizontal	AV
5350	43.03	-7.06	35.97	54	-18.03	Vertical	AV

IEEE 802.11n20 Operation Frequency:5180MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	50.85	-7.53	43.32	74	-30.68	Horizontal	PK
5150	50.54	-7.53	43.01	74	-30.99	Vertical	PK
5150	41.02	-7.53	33.49	54	-20.51	Horizontal	AV
5150	40.38	-7.53	32.85	54	-21.15	Vertical	AV

IEEE 802.11n20 Operation Frequency:5240MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	46.75	-7.06	39.69	74	-34.31	Horizontal	PK
5350	52.41	-7.06	45.35	74	-28.65	Vertical	PK
5350	38.12	-7.06	31.06	54	-22.94	Horizontal	AV
5350	42.13	-7.06	35.07	54	-18.93	Vertical	AV



IEEE 802.11ac20 Operation Frequency:5180MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	50.64	-7.53	43.11	74	-30.89	Horizontal	PK
5150	49.88	-7.53	42.35	74	-31.65	Vertical	PK
5150	41.43	-7.53	33.9	54	-20.1	Horizontal	AV
5150	41.33	-7.53	33.8	54	-20.2	Vertical	AV

IEEE 802.11ac20 Operation Frequency:5240MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	47.02	-7.06	39.96	74	-34.04	Horizontal	PK
5350	52.44	-7.06	45.38	74	-28.62	Vertical	PK
5350	37.37	-7.06	30.31	54	-23.69	Horizontal	AV
5350	41.64	-7.06	34.58	54	-19.42	Vertical	AV

IEEE 802.11n40 Operation Frequency:5190MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	53.04	-7.53	45.51	74	-28.49	Horizontal	PK
5150	51.44	-7.53	43.91	74	-30.09	Vertical	PK
5150	42.26	-7.53	34.73	54	-19.27	Horizontal	AV
5150	42.21	-7.53	34.68	54	-19.32	Vertical	AV

IEEE 802.11n40 Operation Frequency:5230MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	47.92	-7.06	40.86	74	-33.14	Horizontal	PK
5350	53.41	-7.06	46.35	74	-27.65	Vertical	PK
5350	39.42	-7.06	32.36	54	-21.64	Horizontal	AV
5350	43.85	-7.06	36.79	54	-17.21	Vertical	AV

IEEE 802.11ac40 Operation Frequency:5190MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	55.2	-7.53	47.67	74	-26.33	Horizontal	PK
5150	54.11	-7.53	46.58	74	-27.42	Vertical	PK
5150	44.16	-7.53	36.63	54	-17.37	Horizontal	AV
5150	43.96	-7.53	36.43	54	-17.57	Vertical	AV



IEEE 802.11ac40 Operation Frequency:5230MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	55.59	-7.06	48.53	74	-25.47	Vertical	PK
5350	41.02	-7.06	33.96	54	-20.04	Horizontal	AV
5350	45.42	-7.06	38.36	54	-15.64	Vertical	AV
5350	55.59	-7.06	48.53	74	-25.47	Vertical	PK

IEEE 802.11ac80 Operation Frequency:5210MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5150	54.94	-7.53	47.41	74	-26.59	Horizontal	PK
5150	53.38	-7.53	45.85	74	-28.15	Vertical	PK
5150	43.93	-7.53	36.4	54	-17.6	Horizontal	AV
5150	43.52	-7.53	35.99	54	-18.01	Vertical	AV

IEEE 802.11ac80 Operation Frequency:5210MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5350	50.03	-7.06	42.97	74	-31.03	Horizontal	PK
5350	55.09	-7.06	48.03	74	-25.97	Vertical	PK
5350	40.47	-7.06	33.41	54	-20.59	Horizontal	AV
5350	44.95	-7.06	37.89	54	-16.11	Vertical	AV



Measurement data:

IEEE 802.11a Operation Frequency:5745MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	46.78	-6.34	40.44	68.2	-27.76	Horizontal	PK
5650	35.27	-6.34	28.93	54	-25.07	Horizontal	AV
5700	44.43	-6.22	38.21	105.2	-66.99	Horizontal	PK
5700	33.62	-6.22	27.4	54	-26.6	Horizontal	AV
5720	47.13	-6.17	40.96	110.8	-69.84	Horizontal	PK
5720	36.92	-6.17	30.75	54	-23.25	Horizontal	AV
5725	48.73	-6.16	42.57	122.2	-79.63	Horizontal	PK
5725	37.29	-6.16	31.13	54	-22.87	Horizontal	AV
5650	48.22	-6.34	41.88	68.2	-26.32	Vertical	PK
5650	37.14	-6.34	30.8	54	-23.2	Vertical	AV
5700	52.42	-6.22	46.2	105.2	-59	Vertical	PK
5700	41.45	-6.22	35.23	54	-18.77	Vertical	AV
5720	50.1	-6.17	43.93	110.8	-66.87	Vertical	PK
5720	42.25	-6.17	36.08	54	-17.92	Vertical	AV
5725	47.95	-6.16	41.79	122.2	-80.41	Vertical	PK
5725	37.61	-6.16	31.45	54	-22.55	Vertical	AV

IEEE 802.11a Operation Frequency:5825MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	55.58	-5.87	49.71	122.2	-72.49	Vertical	PK
5850	41.71	-5.87	35.84	54	-18.16	Vertical	AV
5855	52.46	-5.85	46.61	110.8	-64.19	Vertical	PK
5855	43.2	-5.85	37.35	54	-16.65	Vertical	AV
5875	46.48	-5.8	40.68	105.2	-64.52	Vertical	PK
5875	34.99	-5.8	29.19	54	-24.81	Vertical	AV
5925	45.9	-5.68	40.22	68.2	-27.98	Vertical	PK
5925	36.55	-5.68	30.87	54	-23.13	Vertical	AV
5850	43.97	-5.87	38.1	122.2	-84.1	Horizontal	PK
5850	33.41	-5.87	27.54	54	-26.46	Horizontal	AV
5855	42.02	-5.85	36.17	110.8	-74.63	Horizontal	PK
5855	33.56	-5.85	27.71	54	-26.29	Horizontal	AV
5875	46.55	-5.8	40.75	105.2	-64.45	Horizontal	PK
5875	35.76	-5.8	29.96	54	-24.04	Horizontal	AV
5925	55.8	-5.68	50.12	68.2	-18.08	Horizontal	PK
5925	39.66	-5.68	33.98	54	-20.02	Horizontal	AV



IEEE 802.11n20 Operation Frequency:5745MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	47.26	-6.34	40.92	68.2	-27.28	Horizontal	PK
5650	35.08	-6.34	28.74	54	-25.26	Horizontal	AV
5700	44.86	-6.22	38.64	105.2	-66.56	Horizontal	PK
5700	33.72	-6.22	27.5	54	-26.5	Horizontal	AV
5720	47.68	-6.17	41.51	110.8	-69.29	Horizontal	PK
5720	37.67	-6.17	31.5	54	-22.5	Horizontal	AV
5725	49.32	-6.16	43.16	122.2	-79.04	Horizontal	PK
5725	38.73	-6.16	32.57	54	-21.43	Horizontal	AV
5650	49.85	-6.34	43.51	68.2	-24.69	Vertical	PK
5650	38.48	-6.34	32.14	54	-21.86	Vertical	AV
5700	53.59	-6.22	47.37	105.2	-57.83	Vertical	PK
5700	42.73	-6.22	36.51	54	-17.49	Vertical	AV
5720	50.71	-6.17	44.54	110.8	-66.26	Vertical	PK
5720	43.78	-6.17	37.61	54	-16.39	Vertical	AV
5725	48.07	-6.16	41.91	122.2	-80.29	Vertical	PK
5725	38.33	-6.16	32.17	54	-21.83	Vertical	AV

IEEE 802.11n20 Operation Frequency:5825MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	56.11	-5.87	50.24	122.2	-71.96	Vertical	PK
5850	42.76	-5.87	36.89	54	-17.11	Vertical	AV
5855	53.15	-5.85	47.3	110.8	-63.5	Vertical	PK
5855	43.38	-5.85	37.53	54	-16.47	Vertical	AV
5875	48.34	-5.8	42.54	105.2	-62.66	Vertical	PK
5875	35.52	-5.8	29.72	54	-24.28	Vertical	AV
5925	47.28	-5.68	41.6	68.2	-26.6	Vertical	PK
5925	36.79	-5.68	31.11	54	-22.89	Vertical	AV
5850	44.45	-5.87	38.58	122.2	-83.62	Horizontal	PK
5850	34.17	-5.87	28.3	54	-25.7	Horizontal	AV
5855	43.59	-5.85	37.74	110.8	-73.06	Horizontal	PK
5855	34.18	-5.85	28.33	54	-25.67	Horizontal	AV
5875	47.26	-5.8	41.46	105.2	-63.74	Horizontal	PK
5875	36.35	-5.8	30.55	54	-23.45	Horizontal	AV
5925	56.5	-5.68	50.82	68.2	-17.38	Horizontal	PK
5925	40.37	-5.68	34.69	54	-19.31	Horizontal	AV



IEEE 802.11ac20 Operation Frequency:5745MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	44.65	-6.34	38.31	68.2	-29.89	Horizontal	PK
5650	33.1	-6.34	26.76	54	-27.24	Horizontal	AV
5700	42.27	-6.22	36.05	105.2	-69.15	Horizontal	PK
5700	32.23	-6.22	26.01	54	-27.99	Horizontal	AV
5720	45.24	-6.17	39.07	110.8	-71.73	Horizontal	PK
5720	34.45	-6.17	28.28	54	-25.72	Horizontal	AV
5725	45.68	-6.16	39.52	122.2	-82.68	Horizontal	PK
5725	36.09	-6.16	29.93	54	-24.07	Horizontal	AV
5650	45.9	-6.34	39.56	68.2	-28.64	Vertical	PK
5650	35.45	-6.34	29.11	54	-24.89	Vertical	AV
5700	50.08	-6.22	43.86	105.2	-61.34	Vertical	PK
5700	39.16	-6.22	32.94	54	-21.06	Vertical	AV
5720	47.35	-6.17	41.18	110.8	-69.62	Vertical	PK
5720	40.76	-6.17	34.59	54	-19.41	Vertical	AV
5725	44.68	-6.16	38.52	122.2	-83.68	Vertical	PK
5725	36.53	-6.16	30.37	54	-23.63	Vertical	AV

IEEE 802.11ac20 Operation Frequency:5825MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	52.46	-5.87	46.59	122.2	-75.61	Vertical	PK
5850	39.41	-5.87	33.54	54	-20.46	Vertical	AV
5855	49.75	-5.85	43.9	110.8	-66.9	Vertical	PK
5855	40.12	-5.85	34.27	54	-19.73	Vertical	AV
5875	44.03	-5.8	38.23	105.2	-66.97	Vertical	PK
5875	33.13	-5.8	27.33	54	-26.67	Vertical	AV
5925	43.82	-5.68	38.14	68.2	-30.06	Vertical	PK
5925	35.2	-5.68	29.52	54	-24.48	Vertical	AV
5850	41.37	-5.87	35.5	122.2	-86.7	Horizontal	PK
5850	31.11	-5.87	25.24	54	-28.76	Horizontal	AV
5855	39.96	-5.85	34.11	110.8	-76.69	Horizontal	PK
5855	32.14	-5.85	26.29	54	-27.71	Horizontal	AV
5875	44.48	-5.8	38.68	105.2	-66.52	Horizontal	PK
5875	33.85	-5.8	28.05	54	-25.95	Horizontal	AV
5925	52.82	-5.68	47.14	68.2	-21.06	Horizontal	PK
5925	37.77	-5.68	32.09	54	-21.91	Horizontal	AV



IEEE 802.11n40 Operation Frequency:5755MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	46.82	-6.34	40.48	68.2	-27.72	Horizontal	PK
5650	35.31	-6.34	28.97	54	-25.03	Horizontal	AV
5700	44.63	-6.22	38.41	105.2	-66.79	Horizontal	PK
5700	33.77	-6.22	27.55	54	-26.45	Horizontal	AV
5720	48.08	-6.17	41.91	110.8	-68.89	Horizontal	PK
5720	36.74	-6.17	30.57	54	-23.43	Horizontal	AV
5725	48.88	-6.16	42.72	122.2	-79.48	Horizontal	PK
5725	38.42	-6.16	32.26	54	-21.74	Horizontal	AV
5650	49.4	-6.34	43.06	68.2	-25.14	Vertical	PK
5650	38.03	-6.34	31.69	54	-22.31	Vertical	AV
5700	52.99	-6.22	46.77	105.2	-58.43	Vertical	PK
5700	42.49	-6.22	36.27	54	-17.73	Vertical	AV
5720	50.7	-6.17	44.53	110.8	-66.27	Vertical	PK
5720	42.72	-6.17	36.55	54	-17.45	Vertical	AV
5725	48.33	-6.16	42.17	122.2	-80.03	Vertical	PK
5725	38.33	-6.16	32.17	54	-21.83	Vertical	AV

IEEE 802.11n40 Operation Frequency:5795MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	55.4	-5.87	49.53	122.2	-72.67	Vertical	PK
5850	42.62	-5.87	36.75	54	-17.25	Vertical	AV
5855	51.8	-5.85	45.95	110.8	-64.85	Vertical	PK
5855	43.62	-5.85	37.77	54	-16.23	Vertical	AV
5875	47.04	-5.8	41.24	105.2	-63.96	Vertical	PK
5875	35.21	-5.8	29.41	54	-24.59	Vertical	AV
5925	46.27	-5.68	40.59	68.2	-27.61	Vertical	PK
5925	36.74	-5.68	31.06	54	-22.94	Vertical	AV
5850	44.11	-5.87	38.24	122.2	-83.96	Horizontal	PK
5850	33.69	-5.87	27.82	54	-26.18	Horizontal	AV
5855	42.64	-5.85	36.79	110.8	-74.01	Horizontal	PK
5855	34.34	-5.85	28.49	54	-25.51	Horizontal	AV
5875	46.95	-5.8	41.15	105.2	-64.05	Horizontal	PK
5875	35.85	-5.8	30.05	54	-23.95	Horizontal	AV
5925	55.44	-5.68	49.76	68.2	-18.44	Horizontal	PK
5925	39.77	-5.68	34.09	54	-19.91	Horizontal	AV



IEEE 802.11ac40 Operation Frequency:5755MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	48.82	-6.34	42.48	68.2	-25.72	Horizontal	PK
5650	37.13	-6.34	30.79	54	-23.21	Horizontal	AV
5700	47.12	-6.22	40.9	105.2	-64.3	Horizontal	PK
5700	35.53	-6.22	29.31	54	-24.69	Horizontal	AV
5720	50.21	-6.17	44.04	110.8	-66.76	Horizontal	PK
5720	38.58	-6.17	32.41	54	-21.59	Horizontal	AV
5725	51.6	-6.16	45.44	122.2	-76.76	Horizontal	PK
5725	39.3	-6.16	33.14	54	-20.86	Horizontal	AV
5650	52.11	-6.34	45.77	68.2	-22.43	Vertical	PK
5650	39.84	-6.34	33.5	54	-20.5	Vertical	AV
5700	56.34	-6.22	50.12	105.2	-55.08	Vertical	PK
5700	43.93	-6.22	37.71	54	-16.29	Vertical	AV
5720	52.54	-6.17	46.37	110.8	-64.43	Vertical	PK
5720	45.1	-6.17	38.93	54	-15.07	Vertical	AV
5725	50.6	-6.16	44.44	122.2	-77.76	Vertical	PK
5725	40.35	-6.16	34.19	54	-19.81	Vertical	AV

IEEE 802.11ac40 Operation Frequency:5795MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	58.64	-5.87	52.77	122.2	-69.43	Vertical	PK
5850	43.84	-5.87	37.97	54	-16.03	Vertical	AV
5855	55.36	-5.85	49.51	110.8	-61.29	Vertical	PK
5855	45.66	-5.85	39.81	54	-14.19	Vertical	AV
5875	49.6	-5.8	43.8	105.2	-61.4	Vertical	PK
5875	37.11	-5.8	31.31	54	-22.69	Vertical	AV
5925	49.26	-5.68	43.58	68.2	-24.62	Vertical	PK
5925	38.63	-5.68	32.95	54	-21.05	Vertical	AV
5850	46	-5.87	40.13	122.2	-82.07	Horizontal	PK
5850	34.74	-5.87	28.87	54	-25.13	Horizontal	AV
5855	44.68	-5.85	38.83	110.8	-71.97	Horizontal	PK
5855	35.46	-5.85	29.61	54	-24.39	Horizontal	AV
5875	49.18	-5.8	43.38	105.2	-61.82	Horizontal	PK
5875	37.52	-5.8	31.72	54	-22.28	Horizontal	AV
5925	58.98	-5.68	53.3	68.2	-14.9	Horizontal	PK
5925	41.9	-5.68	36.22	54	-17.78	Horizontal	AV



IEEE 802.11ac80 Operation Frequency:5775MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5650	46.71	-6.34	40.37	68.2	-27.83	Horizontal	PK
5650	35.19	-6.34	28.85	54	-25.15	Horizontal	AV
5700	44.59	-6.22	38.37	105.2	-66.83	Horizontal	PK
5700	33.45	-6.22	27.23	54	-26.77	Horizontal	AV
5720	47.99	-6.17	41.82	110.8	-68.98	Horizontal	PK
5720	36.9	-6.17	30.73	54	-23.27	Horizontal	AV
5725	48.73	-6.16	42.57	122.2	-79.63	Horizontal	PK
5725	38.12	-6.16	31.96	54	-22.04	Horizontal	AV
5650	49.34	-6.34	43	68.2	-25.2	Vertical	PK
5650	38.5	-6.34	32.16	54	-21.84	Vertical	AV
5700	53.43	-6.22	47.21	105.2	-57.99	Vertical	PK
5700	42.1	-6.22	35.88	54	-18.12	Vertical	AV
5720	50.43	-6.17	44.26	110.8	-66.54	Vertical	PK
5720	43.18	-6.17	37.01	54	-16.99	Vertical	AV
5725	48.01	-6.16	41.85	122.2	-80.35	Vertical	PK
5725	38.77	-6.16	32.61	54	-21.39	Vertical	AV

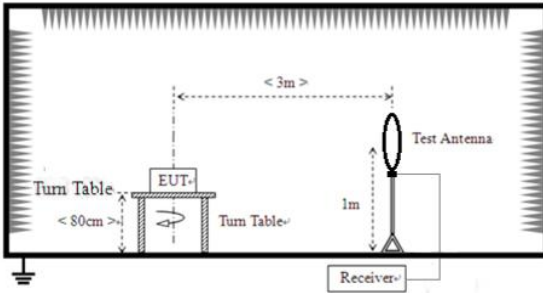
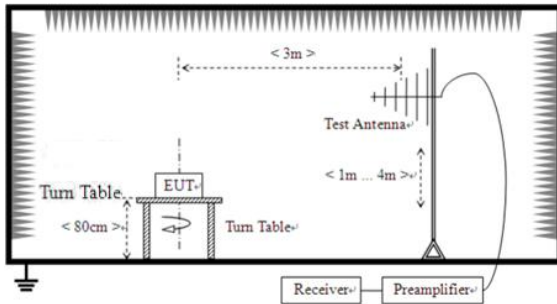
IEEE 802.11ac80 Operation Frequency:5775MHz							
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detect or Type
5850	57.12	-5.87	51.25	122.2	-70.95	Vertical	PK
5850	43.61	-5.87	37.74	54	-16.26	Vertical	AV
5855	52.84	-5.85	46.99	110.8	-63.81	Vertical	PK
5855	43.84	-5.85	37.99	54	-16.01	Vertical	AV
5875	48.57	-5.8	42.77	105.2	-62.43	Vertical	PK
5875	36.73	-5.8	30.93	54	-23.07	Vertical	AV
5925	47.26	-5.68	41.58	68.2	-26.62	Vertical	PK
5925	37.65	-5.68	31.97	54	-22.03	Vertical	AV
5850	45.09	-5.87	39.22	122.2	-82.98	Horizontal	PK
5850	34.17	-5.87	28.3	54	-25.7	Horizontal	AV
5855	43.78	-5.85	37.93	110.8	-72.87	Horizontal	PK
5855	34.58	-5.85	28.73	54	-25.27	Horizontal	AV
5875	48.55	-5.8	42.75	105.2	-62.45	Horizontal	PK
5875	36.81	-5.8	31.01	54	-22.99	Horizontal	AV
5925	56.49	-5.68	50.81	68.2	-17.39	Horizontal	PK
5925	40.8	-5.68	35.12	54	-18.88	Horizontal	AV

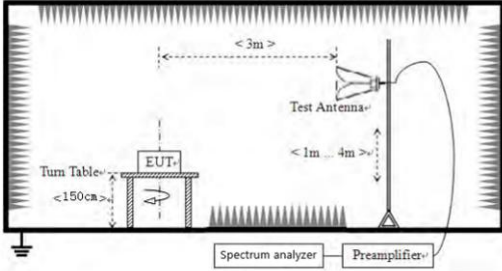
Remark:

Factor =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

4.8 Spurious Emission

4.8.1 Radiated Emission Method

Test Requirement:	47CFR Part 15.209, Part 15E Section 15.407(b)(4)					
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024§6.4&6.5&6.6					
Test Frequency Range:	9kHz to 40GHz					
Test site:	Measurement Distance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
	9kHz-150KHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value	
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	
	30MHz-1GHz	Quasi-peak	120KHz	360KHz	Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
		AV	1MHz	3MHz	Average Value	
Limit:	Frequency		Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz		2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz		24000/F(KHz)	QP	300m	
	1.705MHz-30MHz		30	QP	30m	
	30MHz-88MHz		100	QP	3m	
	88MHz-216MHz		150	QP		
	216MHz-960MHz		200	QP		
	960MHz-1GHz		500	QP		
	Frequency		Limit (dBm/MHz)	Remark		
	Above 1GHz		-27.0	Peak Value		
	Test setup:	For radiated emissions from 9kHz to 30MHz				
						
	For radiated emissions from 30MHz to1GHz					
						

	For radiated emissions above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Remarks:

1. The report only shows the worst mode.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
3. All models and modes have been tested, and the report only displays the worst mode data

Measurement Data:

9 kHz ~ 30 MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

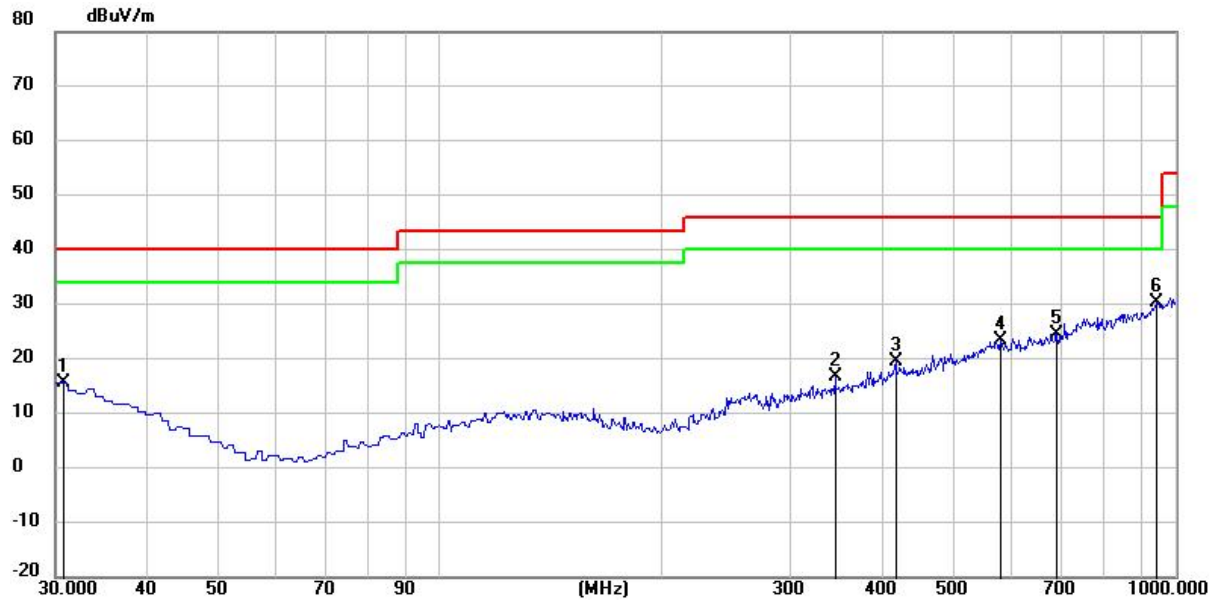


Below 1GHz

5.2G WIFI

Temperature:	23.5℃	Relative Humidity:	62%RH
Pressure:	101.2kPa	Test Voltage :	DC 3.85V
Test Mode :	TX- 802.11n20 (5200MHz)		

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	30.8535	28.90	-13.29	15.61	40.00	-24.39	peak	Pass
2	344.2800	29.93	-13.26	16.67	46.00	-29.33	peak	Pass
3	416.0600	29.82	-10.28	19.54	46.00	-26.46	peak	Pass
4	578.0500	29.16	-5.73	23.43	46.00	-22.57	peak	Pass
5	688.6300	28.97	-4.33	24.64	46.00	-21.36	peak	Pass
6 *	940.8300	29.14	1.39	30.53	46.00	-15.47	peak	Pass

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	30.5306	28.04	-13.12	14.92	40.00	-25.08	peak	Pass
2	263.7700	29.04	-14.75	14.29	46.00	-31.71	peak	Pass
3	426.7300	28.73	-10.12	18.61	46.00	-27.39	peak	Pass
4	482.0200	28.72	-8.57	20.15	46.00	-25.85	peak	Pass
5	705.1200	29.48	-4.01	25.47	46.00	-20.53	peak	Pass
6 *	903.0000	34.83	-0.37	34.46	46.00	-11.54	peak	Pass

Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The test data shows only the worst case 802.11n20 mode

5.8G WIFI

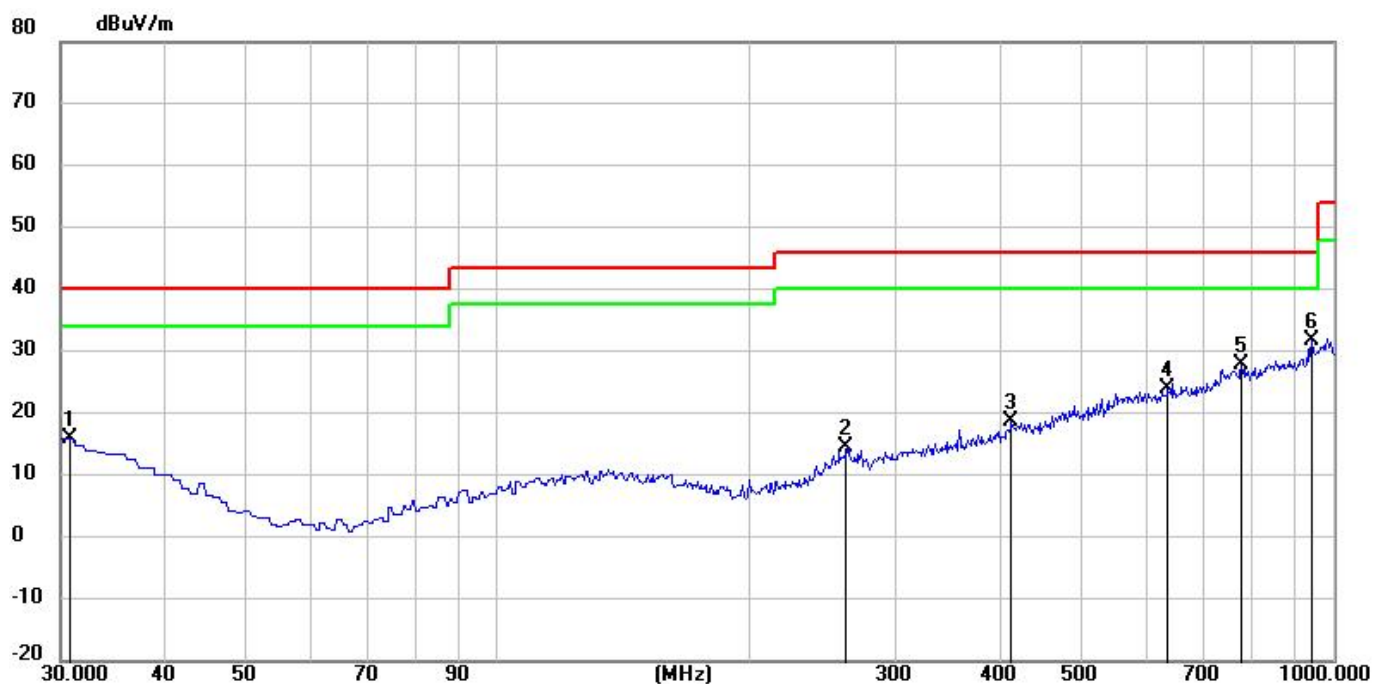
Temperature:	23.5℃	Relative Humidity:	62%RH
Pressure:	101.2kPa	Test Voltage :	DC 3.85V
Test Mode :	TX- 802.11a (5825MHz)		

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	31.2893	29.30	-13.51	15.79	40.00	-24.21	peak	Pass
2	470.3800	28.37	-8.99	19.38	46.00	-26.62	peak	Pass
3	547.0100	29.52	-6.10	23.42	46.00	-22.58	peak	Pass
4	709.9699	29.23	-3.86	25.37	46.00	-20.63	peak	Pass
5	838.0100	28.98	-0.42	28.56	46.00	-17.44	peak	Pass
6 *	954.4100	29.07	1.67	30.74	46.00	-15.26	peak	Pass

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	30.7455	29.25	-13.24	16.01	40.00	-23.99	peak	Pass
2	261.8299	29.42	-14.77	14.65	46.00	-31.35	peak	Pass
3	411.2100	29.38	-10.51	18.87	46.00	-27.13	peak	Pass
4	633.3400	29.00	-4.98	24.02	46.00	-21.98	peak	Pass
5	775.9300	30.28	-2.26	28.02	46.00	-17.98	peak	Pass
6 *	939.8600	30.40	1.37	31.77	46.00	-14.23	peak	Pass

Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The test data shows only the worst case 802.11a mode



Above 1GHz:

Temperature:	21.7℃	Relative Humidity:	63%RH
Pressure:	101.2kPa	Test Voltage :	DC 3.85V
Test Mode :	5.2G TX- 802.11a		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
Low Channel:5180MHz							
V	10360	43.98	1.77	45.75	68.2	-22.45	PK
V	10360	39.93	1.77	41.7	54	-12.3	AV
V	15540	44.97	7.72	52.69	74	-21.31	PK
V	15540	34.55	7.72	42.27	54	-11.73	AV
V	20720	53.51	-5.73	47.78	68.2	-20.42	PK
V	20720	48.53	-5.73	42.8	54	-11.2	AV
V	25900	52.92	-2.89	50.03	68.2	-18.17	PK
V	25900	47.58	-2.89	44.69	54	-9.31	AV
V	31080	46.84	1.66	48.5	68.2	-19.7	PK
V	31080	43.36	1.66	45.02	54	-8.98	AV
V	36260	45.39	4.63	50.02	68.2	-18.18	PK
V	36260	41.18	4.63	45.81	54	-8.19	AV
H	10360	45.55	1.77	47.32	68.2	-20.88	PK
H	10360	39.32	1.77	41.09	54	-12.91	AV
H	15540	43.94	7.72	51.66	74	-22.34	PK
H	15540	34.21	7.72	41.93	54	-12.07	AV
H	20720	55.21	-5.73	49.48	68.2	-18.72	PK
H	20720	50.52	-5.73	44.79	54	-9.21	AV
H	25900	52.43	-2.89	49.54	68.2	-18.66	PK
H	25900	47.66	-2.89	44.77	54	-9.23	AV
H	31080	45.83	1.66	47.49	68.2	-20.71	PK
H	31080	42.12	1.66	43.78	54	-10.22	AV
H	36260	46.64	4.63	51.27	68.2	-16.93	PK
H	36260	40.23	4.63	44.86	54	-9.14	AV

Remark:

1. Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect or Type
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
Middle Channel:5200Hz							
V	10400	45.14	1.85	46.99	68.2	-21.21	PK
V	10400	40.03	1.85	41.88	54	-12.12	AV
V	15600	44.82	7.64	52.46	74	-21.54	PK
V	15600	34.66	7.64	42.3	54	-11.7	AV
V	20800	52.87	-5.67	47.2	68.2	-21	PK
V	20800	48.61	-5.67	42.94	54	-11.06	AV
V	26000	52.15	-2.85	49.3	68.2	-18.9	PK
V	26000	48.15	-2.85	45.3	54	-8.7	AV
V	31200	48.05	1.57	49.62	68.2	-18.58	PK
V	31200	43.64	1.57	45.21	54	-8.79	AV
V	36400	43.67	4.93	48.6	68.2	-19.6	PK
V	36400	39.02	4.93	43.95	54	-10.05	AV
H	10400	44.63	1.85	46.48	68.2	-21.72	PK
H	10400	39.62	1.85	41.47	54	-12.53	AV
H	15600	44.9	7.64	52.54	74	-21.46	PK
H	15600	34.61	7.64	42.25	54	-11.75	AV
H	20800	55.66	-5.67	49.99	68.2	-18.21	PK
H	20800	50.69	-5.67	45.02	54	-8.98	AV
H	26000	52.82	-2.85	49.97	68.2	-18.23	PK
H	26000	46.91	-2.85	44.06	54	-9.94	AV
H	31200	47.26	1.57	48.83	68.2	-19.37	PK
H	31200	42.55	1.57	44.12	54	-9.88	AV
H	36400	45.28	4.93	50.21	68.2	-17.99	PK
H	36400	39.76	4.93	44.69	54	-9.31	AV

Remark:

1. Emission Level = Meter Reading + Factor,
Factor=Antenna Factor + Cable Loss – Pre-amplifier
Margin= Emission Level – Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.