

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15 SUBPART E 15.407

Report Reference No...... : **MTEB26010198-R3**

FCC ID..... : **O89AOCX**

Compiled by

(position+printed name+signature)..: File administrators Alisa Luo



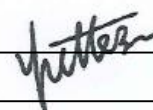
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Date of issue..... : **Jan.23,2026**

Representative Laboratory Name. : **Shenzhen Most Technology Service Co., Ltd.**

Address..... : No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,
Nanshan, Shenzhen, Guangdong, China.

Applicant's name..... : **Xiamen Pinnacle Electrical Co.,Ltd.**

Address..... : 4F, Guang Xia Building, Torch High-Tech Zone, Xiamen, China

Test specification..... :

Standard..... : **FCC Part 15 Subpart E 15.407**

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Test item description.....: All-in-one Touch POS

Trade Mark.....: ACLAS

Model/Type reference.....: AOCX

Listed Models: AODX

Modulation: OFDM

Frequency..... From 5180MHz-5240MHz; 5260MHz-5320MHz;
5500MHz-5700MHz; 5745MHz-5825MHz

Hardware Version..... EPAOX6IMB

Software Version..... /

Rating..... DC 13.8V by Adapter
DC 7.4V by Battery

Result..... **PASS**

TEST REPORT

Equipment under Test : All-in-one Touch POS

Model /Type : AOCX

Listed Models : AODX

Remark Their electrical circuit design, layout, components used, and internal wiring are identical. Only the model names are different.

Applicant : Xiamen Pinnacle Electrical Co.,Ltd.

Address : 4F, Guang Xia Building, Torch High-Tech Zone, Xiamen, China

Manufacturer : Xiamen Pinnacle Electrical Co.,Ltd.

Address : 4F, Guang Xia Building, Torch High-Tech Zone, Xiamen, China

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 Revision History

Revision	Issue Date	Revisions	Revised By
00	2026.01.23	Initial Issue	Alisa Luo

2 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15 Subpart E](#)—Unlicensed National Information Infrastructure Devices

[ANSI C63.10-2020](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB789033 D02](#): General UNII Test Procedures New Rules v01r02

3 SUMMARY

3.1 General Remarks

Date of receipt of test sample	:	2026.01.03
Testing commenced on	:	2026.01.04
Testing concluded on	:	2026.01.23

3.2 Product Description

Product Description:	All-in-one Touch POS			
Model:	AOCX			
Power supply:	DC 13.8V by Adapter DC 7.4V by Battery			
Testing sample ID:	MTYP11669/11670			
WIFI				
Supported type:	20MHz system	40MHz system	80MHz system	160MHz system
	802.11a 802.11n 802.11ac 802.11ax	802.11n 802.11ac 802.11ax	N/A	N/A
Operation frequency:	5180MHz-5240MHz 5260MHz-5320MHz 5500MHz-5700MHz 5745MHz-5825MHz	5190MHz-5230MHz 5270MHz-5310MHz 5510MHz-5670MHz 5755MHz-5795MHz	N/A	N/A
Modulation:	OFDM	OFDM	N/A	N/A
Antenna type:	FPC Antenna			
Antenna gain:	7.8dBi			

3.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 230V / 50 Hz	☐ 120V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

DC 13.8V by Adapter
DC 7.4V by Battery

3.4 Short description of the Equipment under Test (EUT)

This is a All-in-one Touch POS For more details, refer to the user's manual of the EUT.

3.5 EUT operation mode

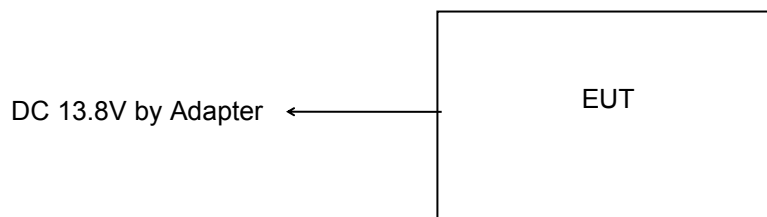
The Applicant provides communication tools software (AT command) to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing.
All test performed at the low, middle and high of operational frequency range of each mode.

Operation Frequency List WIFI on 5G Band:

Operating band	20MHz		40MHz		80MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII 1 (5150MHz-5250MHz)	36	5180	38	5190	--	--
	40	5200				
	44	5220	46	5230		
	48	5240				
U-NII 2A	52	5260	54	5270	--	--
	56	5280				
	60	5300	62	5310		
	64	5320				
U-NII 2C	100	5500	102	5510	--	--
	104	5520				
	108	5540	110	5550		
	112	5560				
	116	5580	118	5590	--	--
	120	5600				
	124	5620	126	5630		
	128	5640				
	132	5660	134	5670	--	--
	140	5700			--	--
U-NII 3 (5725MHz-5850MHz)	149	5745	151	5755	--	--
	153	5765				
	157	5785	159	5795		
	161	5805				
	165	5825	--	--		

Note: The line display in grey is those Channels/Frequencies select to test in this report for each operation mode.

3.6 Block Diagram of Test Setup



3.1 Test Item (Equipment Under Test) Description

Short designation	EUT Name	EUT Description	Serial number	Hardware status	Software status
EUT A	Adapter	65W138250			
EUT B					

*: declared by the applicant. According to customers information EUTs A and B are the same devices.

3.2 Auxiliary Equipment (AE) Description

AE short designation	EUT Name (if available)	EUT Description	Serial number (if available)	Software (if used)
AE 1				
AE 2				

3.3 Antenna Information*

Short designation	Antenna Name	Antenna Type	Frequency Range	Serial number	Antenna Peak Gain
Antenna	---	FPC Antenna	5180MHz-5240MHz 5260MHz-5320MHz 5500MHz-5700MHz 5745MHz-5825MHz	---	7.8dBi

*: declared by the applicant.

3.4 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section 15.407 of the FCC Part 15, Subpart E Rules.

3.5 Modifications

No modifications were implemented to meet testing criteria.

3.6 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - Supplied by the lab

●	ADAPTER	M/N:	65W138250
		Manufacturer:	Xiamen Junhao Technology Co.,Ltd

4 TEST ENVIRONMENT

4.1 Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

4.2 Test Facility

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

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

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. 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.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.3 Environmental conditions

Radiated Emission:

Temperature:	23 ° C
Humidity:	48 %
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

4.4 Test Description

FCC Requirement		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.407(a)	Emission Bandwidth(26dBm Bandwidth)	PASS ^{Note1}
FCC Part 15.407(e)	Minimum Emission Bandwidth(6dBm Bandwidth)	PASS ^{Note2}
FCC Part 15.407(a)	Maximum Conducted Output Power	PASS
FCC Part 15.407(a)	Peak Power Spectral Density	PASS
FCC Part 15.407(g)	Frequency Stability	PASS
FCC Part 15.407(b)	Undesirable emission	PASS
FCC Part 15.407(b)/15.205/15.209	Radiated Emissions	PASS
FCC Part 15.407(h)	Dynamic Frequency Selection	N/A ^{Note 3}
FCC Part 15.203/15.247(b)	Antenna Requirement	PASS

Note 1: Apply to U-NII 1, U-NII 2A, and U-NII 2C band.

Note 2: Apply to U-NII 3 band only.

Note 3: DFS is a separate report.

Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate
Maximum Conducted Output Power Power Spectral Density Emission Bandwidth(26dBm Bandwidth) Minimum Emission Bandwidth(6dBm Bandwidth) Undesirable emission Frequency Stability	11a/OFDM	54 Mbps
	11n(20MHz)/OFDM 11ac(20MHz)/OFDM 11ax(20MHz)/OFDM	MCS7
	11n(40MHz)/OFDM 11ac(40MHz)/OFDM 11ax(40MHz)/OFDM	MCS9

4.5 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 Most Technology Service Co., Ltd. quality 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 Shenzhen Most Technology Service Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)
20dB Bandwidth & 99% Bandwidth	/	5%	(1)

Maximum Conducted Output Power	/	0.80dB	(1)
Spurious RF Conducted Emission	/	1.6dB	(1)

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

4.6 Equipments Used during the Test

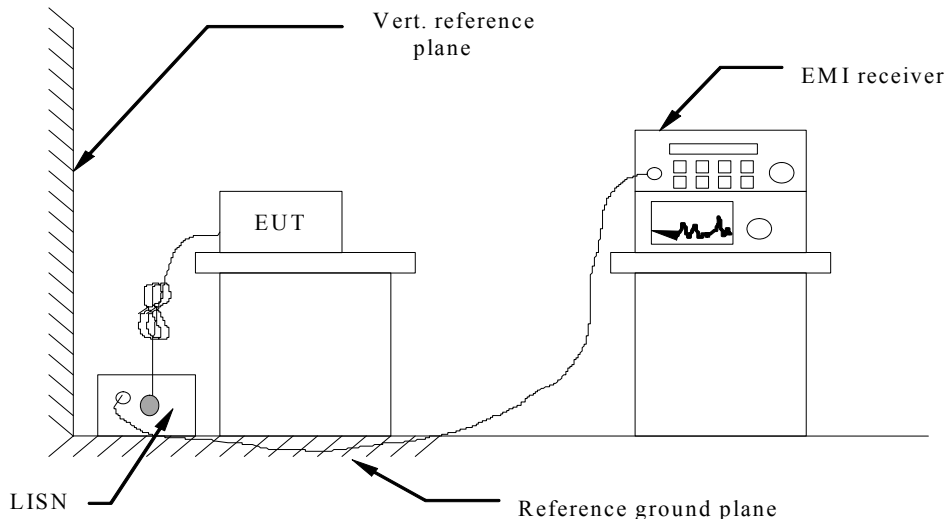
Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware versions	Last Cal.
1.	L.I.S.N.	R&S	ENV216	100093	/	2025/03/04
2	Three-phase artificial power network	Schwarzback Mess	NNLK8129	8129178	/	2025/03/04
3.	Receiver	R&S	ESCI	100492	V3.0-10-2	2025/03/04
4	Receiver	R&S	ESPI	101202	V3.0-10-2	2025/03/04
5	Spectrum analyzer	Agilent	9020A	MT-E306	A14.16	2025/03/04
6	Bilong Antenna	Sunol Sciences	JB3	A121206	/	2025/11/22
7	Horn antenna	HF Antenna	HF Antenna	MT-E158	/	2025/03/16
8	Loop antenna	Beijing Daze	ZN30900B	/	/	2025/03/04
9	Horn antenna	R&S	OBH100400	26999002	/	2025/03/16
10	Wireless Communication Test Set	R&S	CMW500	/	CMW-BASE-3.7.21	2025/03/04
11	Spectrum analyzer	R&S	FSP	100019	V4.40 SP2	2025/03/04
12	High gain antenna	Schwarzbeck	LB-180400KF	MT-E389	/	2025/03/04
13	Preamplifier	Schwarzbeck	BBV 9743	MT-E390	/	2025/03/04
14	Pre-amplifier	EMCI	EMC051845S E	MT-E391	/	2025/03/04
15	Pre-amplifier	Agilent	83051A	MT-E392	/	2025/03/04
16	High pass filter unit	Tonscend	JS0806-F	MT-E393	/	2025/03/04
17	RF Cable(below1GHz)	Times	9kHz-1GHz	MT-E394	/	2025/03/04
18	RF Cable(above 1GHz)	Times	1-40G	MT-E395	/	2025/03/04
19	RF Cable (9KHz-40GHz)	Tonscend	170660	N/A	/	2025/03/04
20	Power meter	R&S	NRVS	100444	/	2025/03/04

Note: The Cal.Interval was one year.

5 TEST CONDITIONS AND RESULTS

5.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2020.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2020
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020
- 4 The EUT received DC 13.8V power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

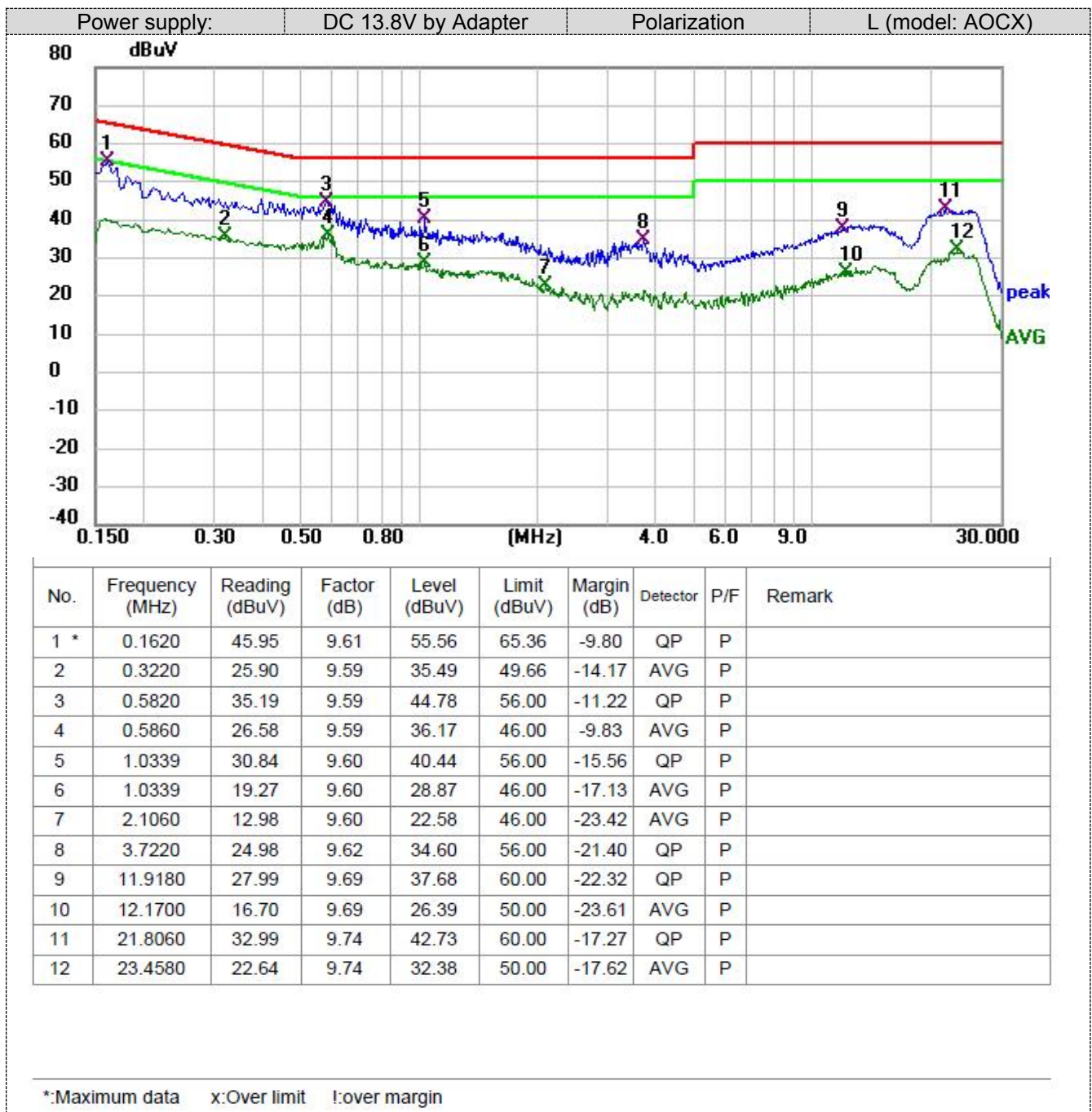
Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

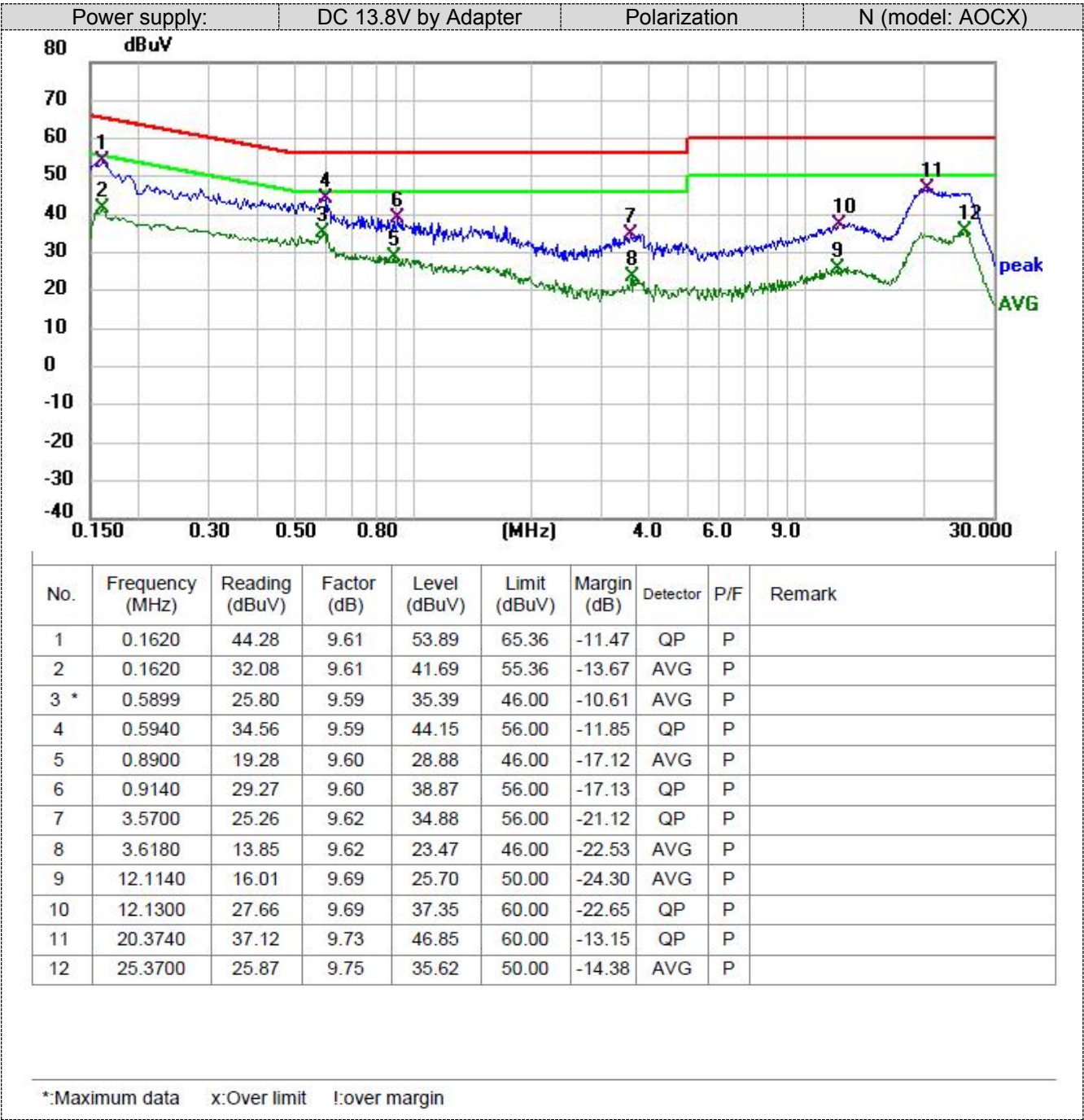
* Decreases with the logarithm of the frequency.

TEST RESULTS

1. WIFI 5G modes were test at 802.11a, 802.11n(20), 802.11n(40),802.11ac(20), 802.11ac(40), 802.11ax(20), 802.11ax(40)

(Low, Middle, and High channel); only the worst result of 802.11a Middle Channel was reported as below:





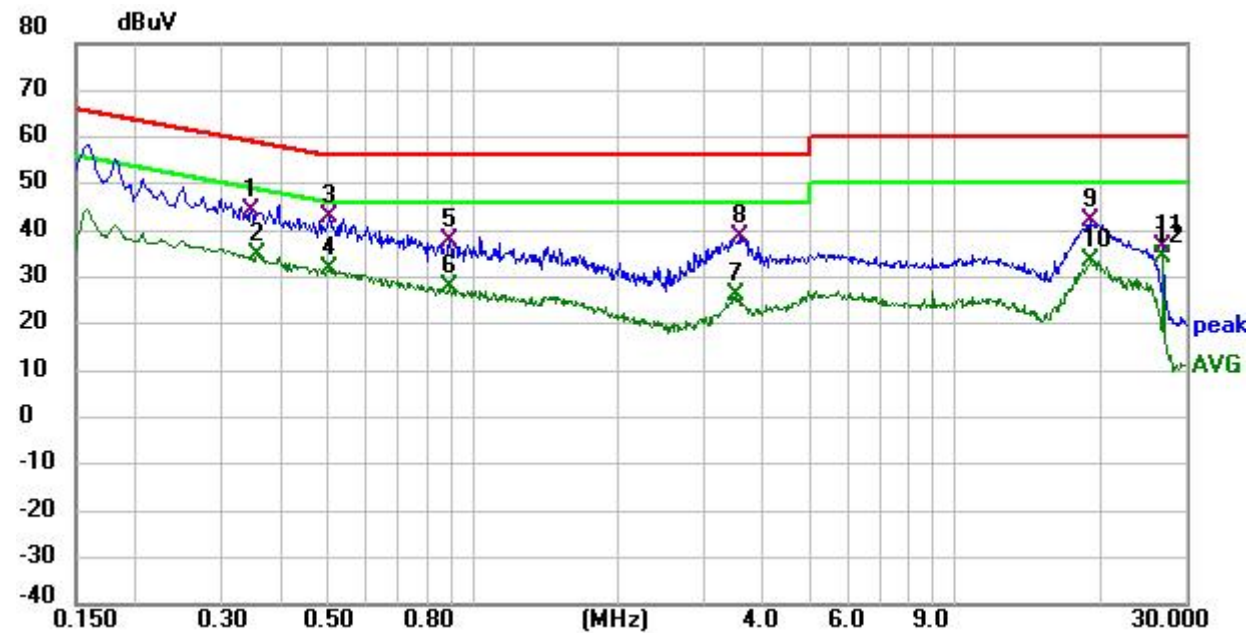
*:Maximum data x:Over limit !:over margin

Power supply:

DC 13.8V by Adapter

Polarization

L (model: AODX)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3460	34.63	9.59	44.22	59.06	-14.84	QP	P	
2	0.3580	25.06	9.59	34.65	48.77	-14.12	AVG	P	
3 *	0.5060	33.43	9.59	43.02	56.00	-12.98	QP	P	
4	0.5060	22.38	9.59	31.97	46.00	-14.03	AVG	P	
5	0.8940	28.02	9.60	37.62	56.00	-18.38	QP	P	
6	0.8940	18.33	9.60	27.93	46.00	-18.07	AVG	P	
7	3.4980	16.75	9.61	26.36	46.00	-19.64	AVG	P	
8	3.5820	28.97	9.62	38.59	56.00	-17.41	QP	P	
9	19.1340	32.29	9.72	42.01	60.00	-17.99	QP	P	
10	19.1340	23.70	9.72	33.42	50.00	-16.58	AVG	P	
11	26.9980	26.61	9.76	36.37	60.00	-23.63	QP	P	
12	26.9980	24.71	9.76	34.47	50.00	-15.53	AVG	P	

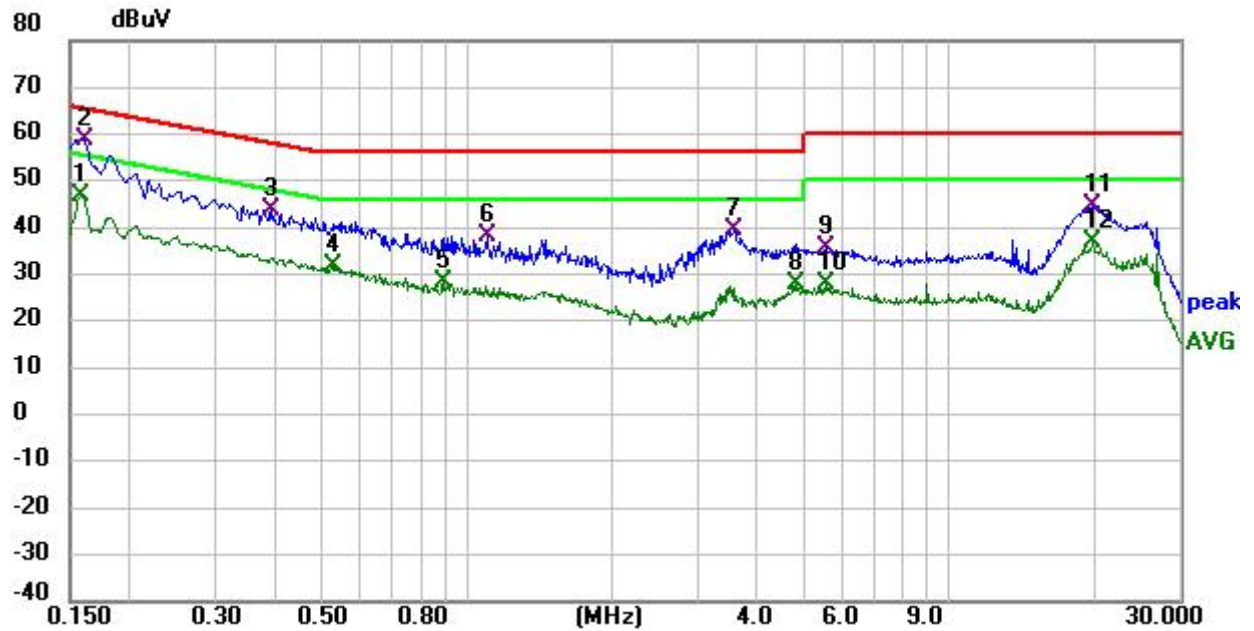
*:Maximum data x:Over limit !:over margin

Power supply:

DC 13.8V by Adapter

Polarization

N (model: AODX)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1580	37.23	9.60	46.83	55.57	-8.74	AVG	P	
2 *	0.1620	49.04	9.61	58.65	65.36	-6.71	QP	P	
3	0.3899	34.19	9.59	43.78	58.07	-14.29	QP	P	
4	0.5299	22.38	9.59	31.97	46.00	-14.03	AVG	P	
5	0.8940	18.67	9.60	28.27	46.00	-17.73	AVG	P	
6	1.1019	28.76	9.60	38.36	56.00	-17.64	QP	P	
7	3.5860	29.83	9.62	39.45	56.00	-16.55	QP	P	
8	4.8460	18.21	9.63	27.84	46.00	-18.16	AVG	P	
9	5.5700	25.91	9.64	35.55	60.00	-24.45	QP	P	
10	5.5700	18.12	9.64	27.76	50.00	-22.24	AVG	P	
11	19.8100	35.12	9.73	44.85	60.00	-15.15	QP	P	
12	19.9300	27.15	9.73	36.88	50.00	-13.12	AVG	P	

*:Maximum data x:Over limit !:over margin

5.2 Radiated Emissions

Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following 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 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 in the 5.725-5.85 GHz band: 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.

Undesirable emission limits

Requirement	Limit(EIRP)	Limit (Field strength at 3m) ^{Note1}
15.407(b)(1)	PK:-27(dBm/MHz)	PK:68.2(dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)		

Note1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

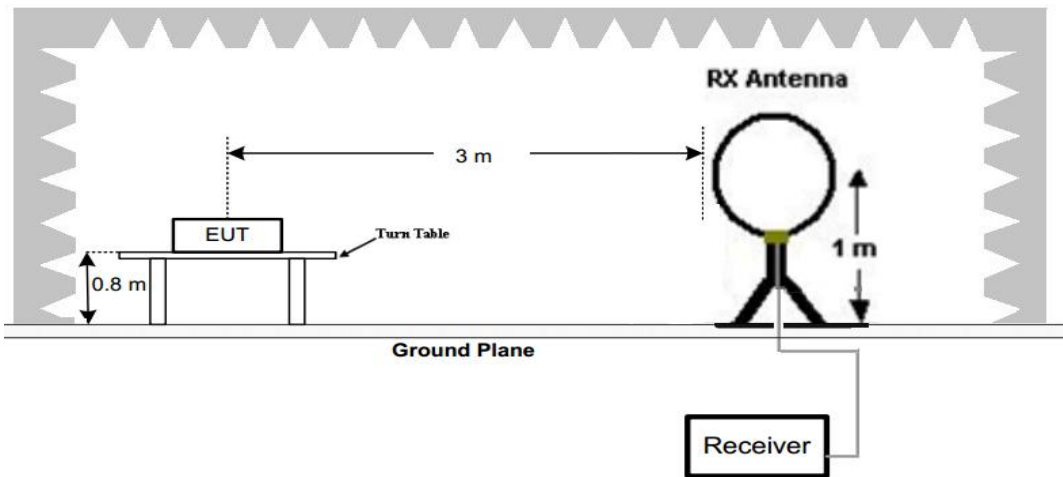
- (5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209
- (6) In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

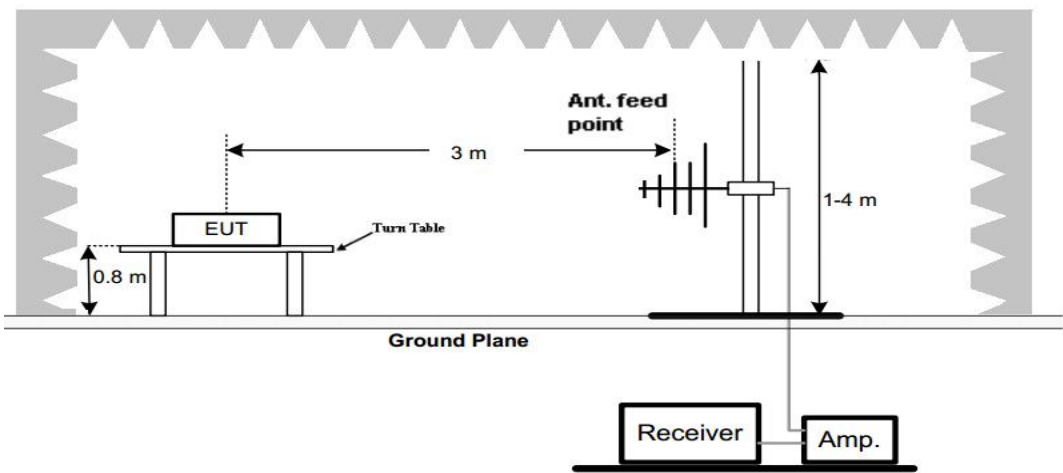
Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST CONFIGURATION

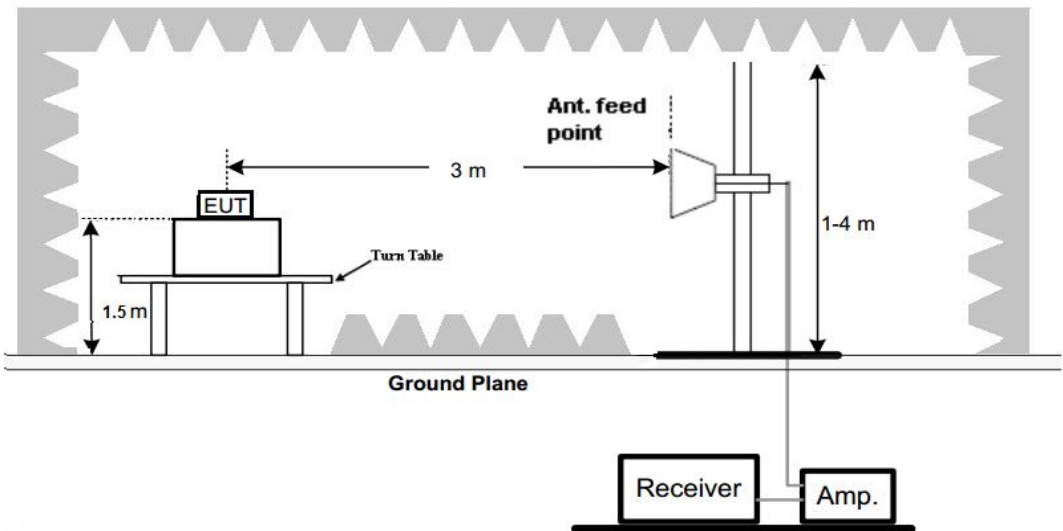
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

- Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.
- Radiated emission test frequency band from 9KHz to 40GHz.
- The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3
1GHz-18GHz	Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

- Setting test receiver/spectrum as following table states:

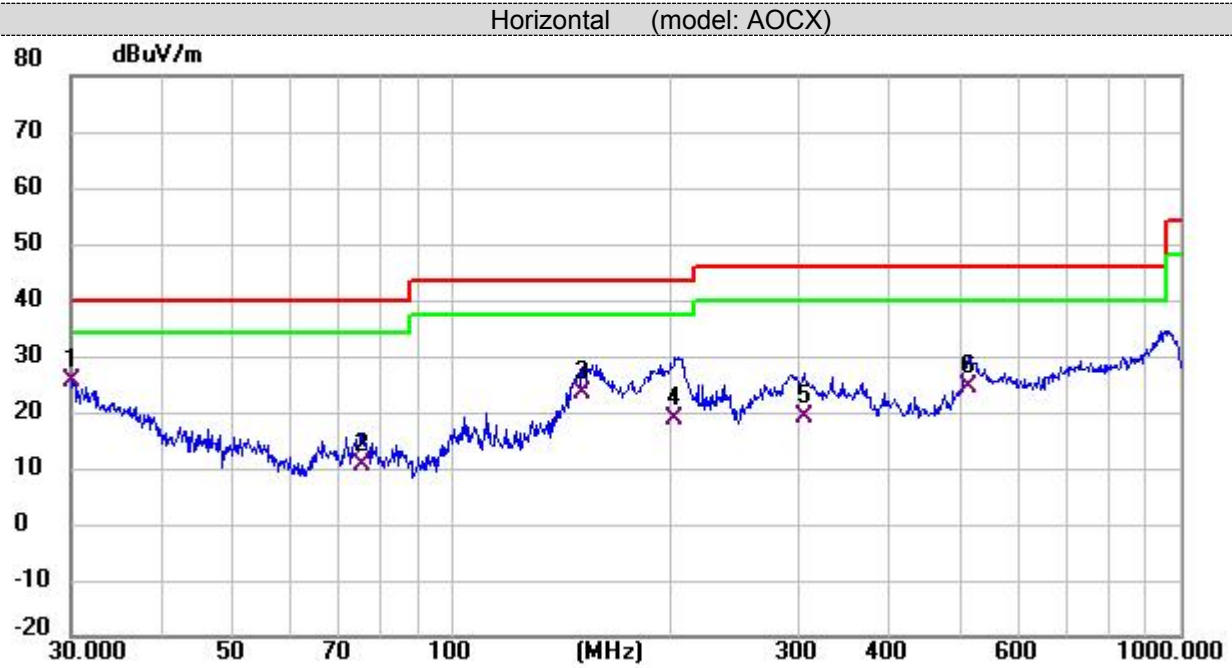
Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

TEST RESULTS

Remark:

- This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
All 802.11a / 802.11n (HT20) / 802.11n (HT40), 802.11ac(20), 802.11ac(40), 802.11ax(20), 802.11ax(40) modes have been tested for below 1GHz test, only the worst case 802.11a low channel of U-NII 1 band was recorded.
- All 802.11a / 802.11n (HT20) / 802.11n (HT40), 802.11ac(20), 802.11ac(40), 802.11ax(20), 802.11ax(40) modes have been tested for above 1GHz test, only the worst case 802.11a was recorded.
- Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
- Remark: Result=Reading value+Factor

For 30MHz-1GHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	30.1200	-0.13	25.51	25.38	40.00	-14.62	QP	200	50	P	
2	75.5600	0.41	10.22	10.63	40.00	-29.37	QP	200	100	P	
3	151.1600	5.89	17.65	23.54	43.50	-19.96	QP	200	150	P	
4	203.4400	3.66	15.17	18.83	43.50	-24.67	QP	200	200	P	
5	305.0799	2.33	16.60	18.93	46.00	-27.07	QP	200	250	P	
6	513.3600	1.76	22.85	24.61	46.00	-21.39	QP	200	300	P	

*:Maximum data x:Over limit !:over margin

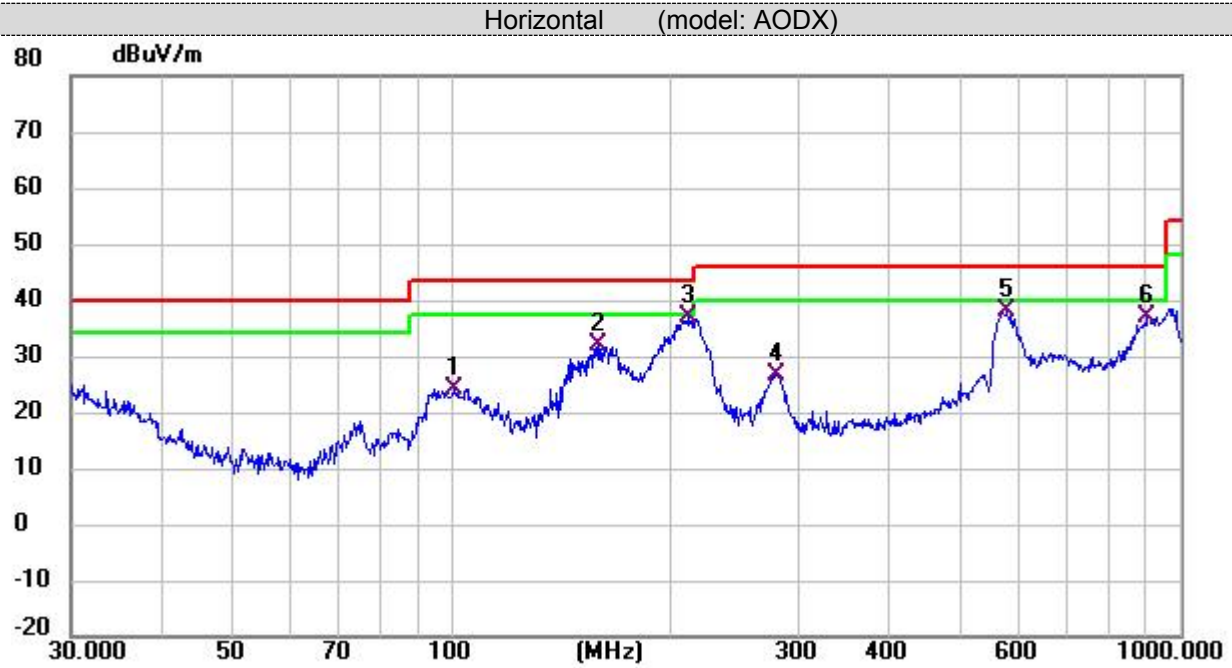
Vertical (model: AOCX)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	35.3600	2.37	17.23	19.60	40.00	-20.40	QP	100	50	P	
2	85.4000	6.99	9.99	16.98	40.00	-23.02	QP	100	100	P	
3	151.8000	6.62	17.63	24.25	43.50	-19.25	QP	100	150	P	
4	248.6400	2.78	14.81	17.59	46.00	-28.41	QP	100	200	P	
5	511.2800	6.35	22.82	29.17	46.00	-16.83	QP	100	250	P	
6 *	952.9200	8.45	29.53	37.98	46.00	-8.02	QP	100	300	P	

*:Maximum data x:Over limit !:over margin

For 30MHz-1GHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	100.9200	10.38	13.70	24.08	43.50	-19.42	QP	200	30	P	
2	159.2000	14.70	17.33	32.03	43.50	-11.47	QP	200	50	P	
3 *	211.6800	21.80	15.11	36.91	43.50	-6.59	QP	200	100	P	
4	279.0799	10.96	15.79	26.75	46.00	-19.25	QP	200	150	P	
5	579.0800	14.50	23.57	38.07	46.00	-7.93	QP	200	200	P	
6	905.1600	8.00	29.05	37.05	46.00	-8.95	QP	200	340	P	

*:Maximum data x:Over limit !:over margin

Vertical (model: AODX)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.0000	4.71	20.90	25.61	40.00	-14.39	QP	100	50	P	
2	62.5200	6.89	8.78	15.67	40.00	-24.33	QP	100	100	P	
3	122.2800	9.93	15.89	25.82	43.50	-17.68	QP	100	150	P	
4	209.0000	6.35	15.13	21.48	43.50	-22.02	QP	100	200	P	
5	320.2400	2.78	16.88	19.66	46.00	-26.34	QP	100	300	P	
6 *	952.7600	3.72	29.53	33.25	46.00	-12.75	QP	100	340	P	

*:Maximum data x:Over limit !:over margin

For 1GHz to 40GHz

Note: All 802.11a / 802.11n (HT20) / 802.11n (HT40), 802.11ac(20), 802.11ac(40), 802.11ax(20), 802.11ax(40) modes have been tested for above 1GHz test, only the worst case 802.11a was recorded.

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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
802.11a Mode -5180MHz									
V	3586	55.26	29.03	5.24	36.4	53.13	68.2	15.07	PK
V	3586	43.84	29.03	5.24	36.4	41.71	54	12.29	AV
H	3586	53.67	29.03	5.24	36.4	51.54	68.2	16.66	PK
H	3586	47.37	29.03	5.24	36.4	45.24	54	8.76	AV
V	10360	36.35	39.41	11.45	34.28	52.93	68.2	15.27	PK
V	10360	24.64	39.41	11.45	34.28	41.22	54	12.78	AV
H	10360	34.75	39.41	11.45	34.28	51.33	68.2	16.87	PK
H	10360	27.19	39.41	11.45	34.28	43.77	54	10.23	AV
802.11a Mode -5200MHz									
V	3586	52.81	29.03	5.24	36.4	50.68	68.2	17.52	PK
V	3586	43.32	29.03	5.24	36.4	41.19	54	12.81	AV
H	3586	52.64	29.03	5.24	36.4	50.51	68.2	17.69	PK
H	3586	48.85	29.03	5.24	36.4	46.72	54	7.28	AV
V	10400	35.24	39.42	11.47	34.28	51.85	68.2	16.35	PK
V	10400	26.29	39.42	11.47	34.28	42.9	54	11.1	AV
H	10400	36.79	39.42	11.47	34.28	53.4	68.2	14.8	PK
H	10400	29.15	39.42	11.47	34.28	45.76	54	8.24	AV
802.11a Mode -5240MHz									
V	3586	52.62	29.03	5.24	36.4	50.49	68.2	17.71	PK
V	3586	43.62	29.03	5.24	36.4	41.49	54	12.51	AV
H	3586	54.99	29.03	5.24	36.4	52.86	68.2	15.34	PK
H	3586	48.35	29.03	5.24	36.4	46.22	54	7.78	AV
V	10480	34.95	39.43	11.47	34.28	51.57	68.2	16.63	PK
V	10480	26.92	39.43	11.47	34.28	43.54	54	10.46	AV
H	10480	37.15	39.43	11.47	34.28	53.77	68.2	14.43	PK
H	10480	27.93	39.43	11.47	34.28	44.55	54	9.45	AV

U-NII 2A

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
802.11a Mode -5260MHz									
V	3603	56.03	29.03	5.24	36.4	53.9	68.2	14.3	PK
V	3603	43.66	29.03	5.24	36.4	41.53	54	12.47	AV
H	3603	53.09	29.03	5.24	36.4	50.96	68.2	17.24	PK
H	3603	48.89	29.03	5.24	36.4	46.76	54	7.24	AV
V	10520	34.95	39.43	11.47	34.28	51.57	68.2	16.63	PK
V	10520	24.83	39.43	11.47	34.28	41.45	54	12.55	AV
H	10520	36.04	39.43	11.47	34.28	52.66	68.2	15.54	PK
H	10520	26.48	39.43	11.47	34.28	43.1	54	10.9	AV
802.11a Mode -5280MHz									
V	3603	53.41	29.03	5.24	36.4	51.28	68.2	16.92	PK
V	3603	42.66	29.03	5.24	36.4	40.53	54	13.47	AV
H	3603	54.4	29.03	5.24	36.4	52.27	68.2	15.93	PK
H	3603	48.6	29.03	5.24	36.4	46.47	54	7.53	AV
V	10560	35.03	39.43	11.47	34.28	51.65	68.2	16.55	PK
V	10560	26.3	39.43	11.47	34.28	42.92	54	11.08	AV
H	10560	35.26	39.43	11.47	34.28	51.88	68.2	16.32	PK
H	10560	28.71	39.43	11.47	34.28	45.33	54	8.67	AV
802.11a Mode -5320MHz									
V	3603	52.94	29.03	5.24	36.4	50.81	68.2	17.39	PK
V	3603	42.6	29.03	5.24	36.4	40.47	54	13.53	AV
H	3603	54.31	29.03	5.24	36.4	52.18	68.2	16.02	PK
H	3603	46.99	29.03	5.24	36.4	44.86	54	9.14	AV
V	10640	36.79	39.44	11.47	34.28	53.42	68.2	14.78	PK
V	10640	25.8	39.44	11.47	34.28	42.43	54	11.57	AV
H	10640	34.76	39.44	11.47	34.28	51.39	68.2	16.81	PK
H	10640	27.94	39.44	11.47	34.28	44.57	54	9.43	AV

U-NII 2C

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a Mode -5500MHz									
V	4982	51.15	32.52	5.24	36.4	52.51	68.2	15.69	PK
V	4982	40.32	32.52	5.24	36.4	41.68	54	12.32	AV
H	4982	49.08	32.52	5.24	36.4	50.44	68.2	17.76	PK
H	4982	42.7	32.52	5.24	36.4	44.06	54	9.94	AV
V	11000	35.16	39.46	11.47	34.28	51.81	68.2	16.39	PK
V	11000	23.89	39.46	11.47	34.28	40.54	54	13.46	AV
H	11000	34.66	39.46	11.47	34.28	51.31	68.2	16.89	PK
H	11000	27.55	39.46	11.47	34.28	44.2	54	9.8	AV
802.11a Mode -5600MHz									
V	4982	51.2	32.52	5.24	36.4	52.56	68.2	15.64	PK
V	4982	39.75	32.52	5.24	36.4	41.11	54	12.89	AV
H	4982	51.42	32.52	5.24	36.4	52.78	68.2	15.42	PK
H	4982	43.76	32.52	5.24	36.4	45.12	54	8.88	AV
V	11200	36.51	39.46	11.47	34.28	53.16	68.2	15.04	PK
V	11200	26.18	39.46	11.47	34.28	42.83	54	11.17	AV
H	11200	36.32	39.46	11.47	34.28	52.97	68.2	15.23	PK
H	11200	26.78	39.46	11.47	34.28	43.43	54	10.57	AV
802.11a Mode -5700MHz									
V	4982	49.18	32.52	5.24	36.4	50.54	68.2	17.66	PK
V	4982	39.25	32.52	5.24	36.4	40.61	54	13.39	AV
H	4982	50.9	32.52	5.24	36.4	52.26	68.2	15.94	PK
H	4982	44.76	32.52	5.24	36.4	46.12	54	7.88	AV
V	11400	37.45	39.46	11.47	34.28	54.1	68.2	14.1	PK
V	11400	26.36	39.46	11.47	34.28	43.01	54	10.99	AV
H	11400	34.94	39.46	11.47	34.28	51.59	68.2	16.61	PK
H	11400	28.01	39.46	11.47	34.28	44.66	54	9.34	AV

U-NII 3

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a Mode -5500MHz									
V	5112	53.3	32.84	5.24	36.4	54.98	68.2	13.22	PK
V	5112	38.65	32.84	5.24	36.4	40.33	54	13.67	AV
H	5112	50.8	32.84	5.24	36.4	52.48	68.2	15.72	PK
H	5112	43.28	32.84	5.24	36.4	44.96	54	9.04	AV
V	11490	33.77	39.52	11.47	34.28	50.48	68.2	17.72	PK
V	11490	24.89	39.52	11.47	34.28	41.6	54	12.4	AV
H	11490	36.28	39.52	11.47	34.28	52.99	68.2	15.21	PK
H	11490	28.36	39.52	11.47	34.28	45.07	54	8.93	AV
802.11a Mode -5600MHz									
V	5112	49.97	32.84	5.24	36.4	51.65	68.2	16.55	PK
V	5112	39.8	32.84	5.24	36.4	41.48	54	12.52	AV
H	5112	51	32.84	5.24	36.4	52.68	68.2	15.52	PK
H	5112	43.08	32.84	5.24	36.4	44.76	54	9.24	AV
V	11570	35.67	39.52	11.47	34.28	52.38	68.2	15.82	PK
V	11570	25.68	39.52	11.47	34.28	42.39	54	11.61	AV
H	11570	36.01	39.52	11.47	34.28	52.72	68.2	15.48	PK
H	11570	26.83	39.52	11.47	34.28	43.54	54	10.46	AV
802.11a Mode -5700MHz									
V	5112	48.69	32.84	5.24	36.4	50.37	68.2	17.83	PK
V	5112	39.86	32.84	5.24	36.4	41.54	54	12.46	AV
H	5112	49.16	32.84	5.24	36.4	50.84	68.2	17.36	PK
H	5112	44.58	32.84	5.24	36.4	46.26	54	7.74	AV
V	11650	36.85	39.52	11.47	34.28	53.56	68.2	14.64	PK
V	11650	26.73	39.52	11.47	34.28	43.44	54	10.56	AV
H	11650	36.3	39.52	11.47	34.28	53.01	68.2	15.19	PK
H	11650	26.39	39.52	11.47	34.28	43.1	54	10.9	AV

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
3. Margin value = Limit value - Emission level.
4. -- Mean the other emission levels were very low against the limit.
5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Radiated Band Edge Test:

All 802.11a / 802.11n (HT20) / 802.11n (HT40), 802.11ac(20), 802.11ac(40), 802.11ax(20), 802.11ax(40) modes have been tested for above 1GHz test, only the worst case 802.11a was recorded.

U-NII 1

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a									
V	5150	55.31	31.22	7.62	36.5	57.65	74	16.35	PK
V	5150	38.39	31.22	7.62	36.5	40.73	54	13.27	AV
H	5150	54.88	31.22	7.62	36.5	57.22	74	16.78	PK
H	5150	44.03	31.22	7.62	36.5	46.37	54	7.63	AV
V	5350	53.65	31.56	7.83	35.82	57.22	74	16.78	PK
V	5350	38.66	31.56	7.83	35.82	42.23	54	11.77	AV
H	5350	54.42	31.56	7.83	35.82	57.99	74	16.01	PK
H	5350	41.12	31.56	7.83	35.82	44.69	54	9.31	AV

U-NII 2A

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a									
V	5150	54.21	31.22	7.62	36.5	56.55	74	17.45	PK
V	5150	38.82	31.22	7.62	36.5	41.16	54	12.84	AV
H	5150	55.47	31.22	7.62	36.5	57.81	74	16.19	PK
H	5150	44.06	31.22	7.62	36.5	46.4	54	7.6	AV
V	5350	54.97	31.56	7.83	35.82	58.54	74	15.46	PK
V	5350	39.66	31.56	7.83	35.82	43.23	54	10.77	AV
H	5350	55.66	31.56	7.83	35.82	59.23	74	14.77	PK
H	5350	41.32	31.56	7.83	35.82	44.89	54	9.11	AV

U-NII 2C

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a									
V	5460	55.43	31.22	7.62	36.5	57.77	74	16.23	PK
V	5460	38.65	31.22	7.62	36.5	40.99	54	13.01	AV
H	5460	54.75	31.22	7.62	36.5	57.09	74	16.91	PK
H	5460	41.74	31.22	7.62	36.5	44.08	54	9.92	AV
V	5850	54.75	31.56	7.83	35.82	58.32	74	15.68	PK
V	5850	38.76	31.56	7.83	35.82	42.33	54	11.67	AV
H	5850	53.66	31.56	7.83	35.82	57.23	74	16.77	PK
H	5850	42.2	31.56	7.83	35.82	45.77	54	8.23	AV

U-NII 3

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a									
V	5460	56.14	31.22	7.62	36.5	58.48	74	15.52	PK
V	5460	39.54	31.22	7.62	36.5	41.88	54	12.12	AV
H	5460	55.85	31.22	7.62	36.5	58.19	74	15.81	PK
H	5460	41.88	31.22	7.62	36.5	44.22	54	9.78	AV
V	5850	54.53	31.56	7.83	35.82	58.1	74	15.9	PK
V	5850	39.99	31.56	7.83	35.82	43.56	54	10.44	AV
H	5850	54.66	31.56	7.83	35.82	58.23	74	15.77	PK
H	5850	40.17	31.56	7.83	35.82	43.74	54	10.26	AV

5.3 Conduction spurious emission

Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following 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 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 in the 5.725-5.85 GHz band: 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 Procedure

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

Test Configuration



TEST RESULTS

See Appendix VI

5.4 Maximum Conducted Average Output Power

Limit

For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

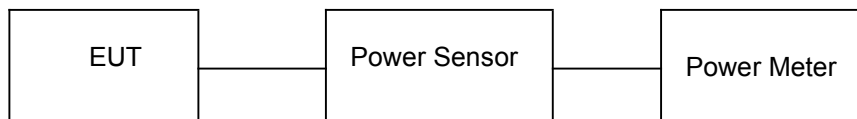
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results

See Appendix II

5.5 Power Spectral Density

Limit

(1) For the band 5.15 - 5.25 GHz.

(i) For an outdoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. ^{note1}

(ii) For an indoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. ^{note1}

(iii) For fixed point-to-point access points operating in the band 5.15 - 5.25 GHz, transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.

(iv) For mobile and portable client devices in the 5.15 - 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. ^{note1}

(2) For the 5.25 - 5.35 GHz and 5.47 - 5.725 GHz bands, the peak power spectral density shall not exceed 11 dBm in any 1 MHz band. ^{note1}

(3) For the band 5.725 - 5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band. ^{note1, note2}

Note1: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note2: Fixed point - to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 1MHz for U-NII 1, U-NII 2A, U-NII C band and 510KHz for U-NII 3 band.
3. Set the VBW $\geq 3 \times$ RBW.
4. Set the span to encompass the entire EBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.

Test Configuration



Test Results

See Appendix VIII

5.6 Emission Bandwidth (26dBm Bandwidth)

Limit

N/A

Test Procedure

1. Set resolution bandwidth (RBW) = approximately 1 % of the EBW.
2. Set the video bandwidth (VBW) > RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW / EBW ratio is approximately 1 %.

Test Configuration



Test Results

See Appendix V

5.7 Minimum Emission Bandwidth (6dBm Bandwidth)

Limit

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth 3 x RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Configuration



Test Results

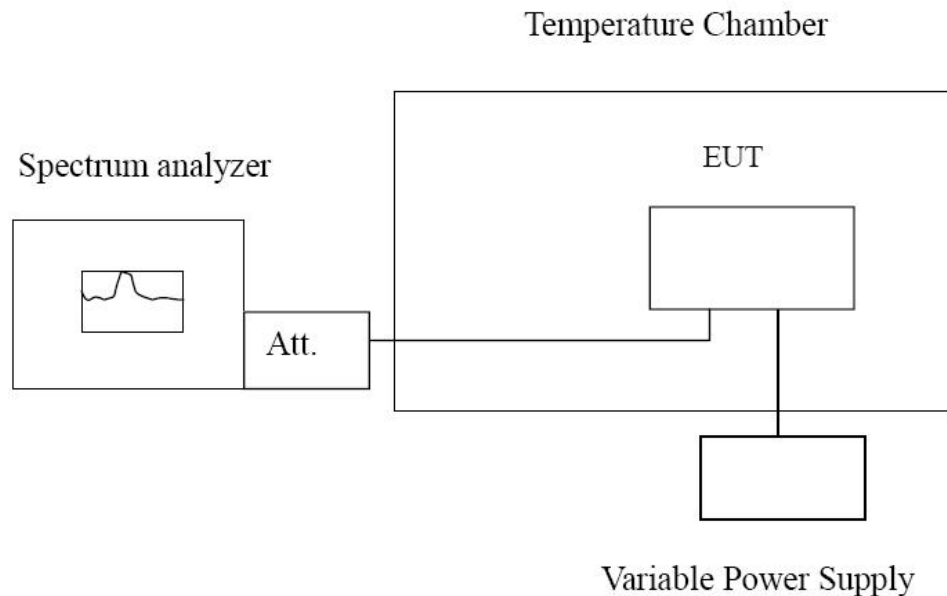
See Appendix IV

5.8 Frequency Stability

LIMIT

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

TEST CONFIGURATION



TEST PROCEDURE

Frequency Stability under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Frequency Stability under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

TEST RESULTS

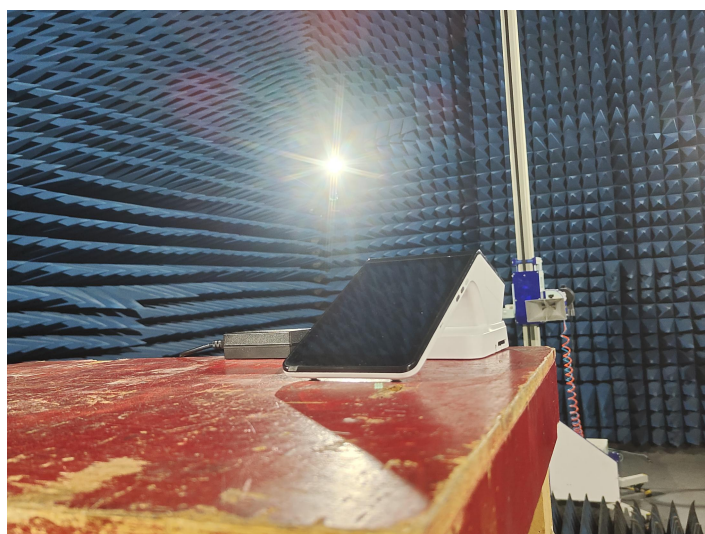
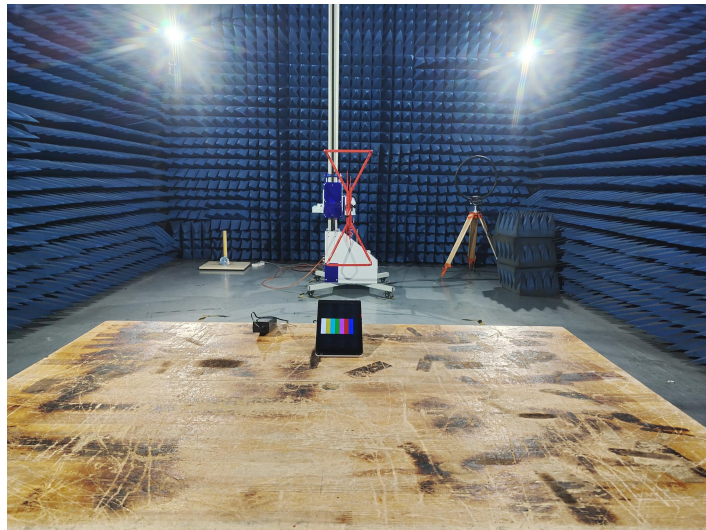
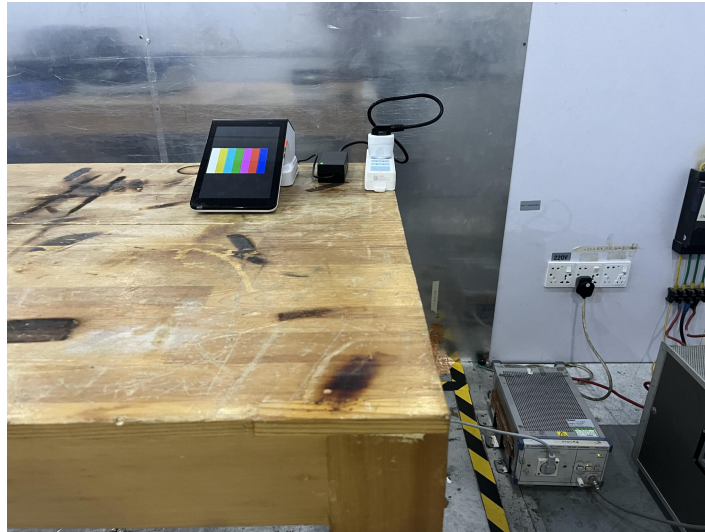
See Appendix I

5.9 Duty Cycle Information

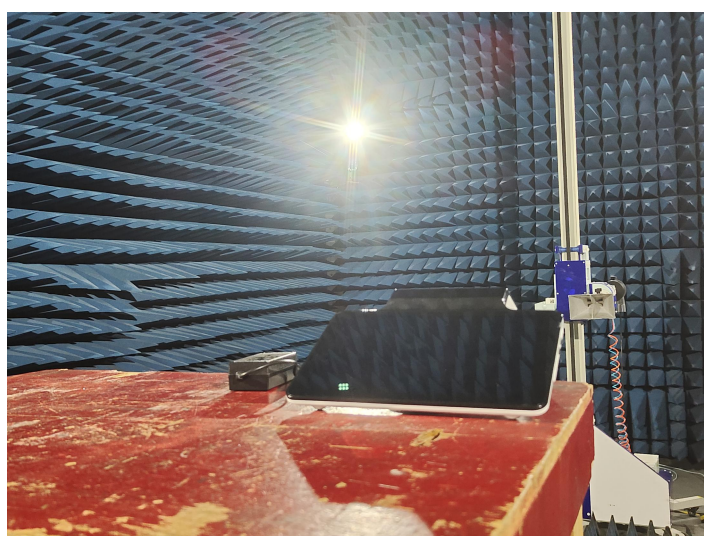
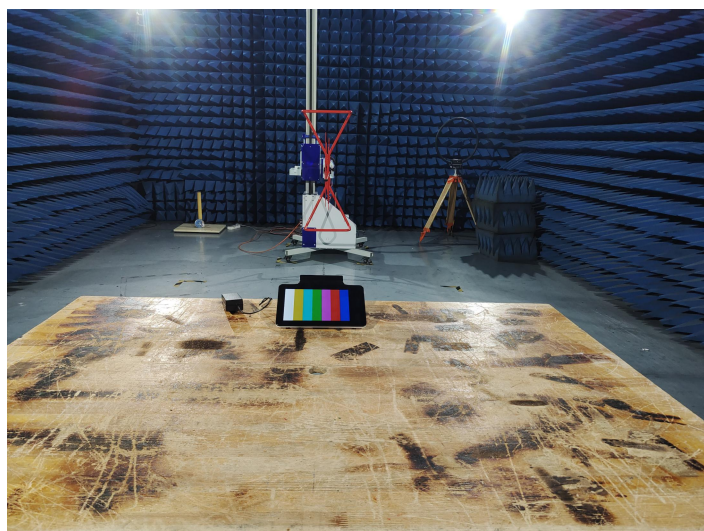
See Appendix VII

6 Test Setup Photos of the EUT

AOCX



AODX



7 Photos of the EUT

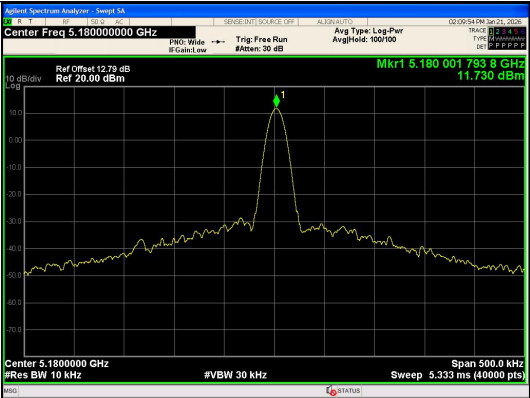
see photo report.

APPENDIX I. Frequency Stability**Test Result**

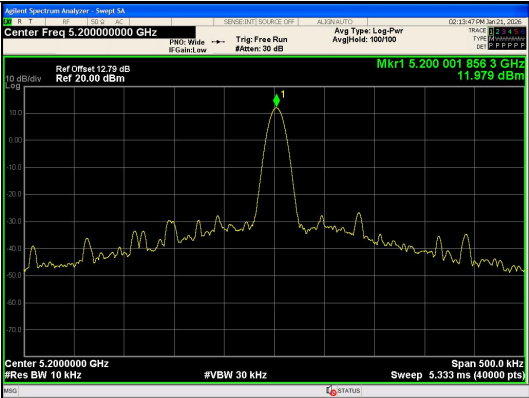
Condition	Mode	Ch.	RU & Index	Antenna	Center Frequency (MHz)	Calculated Value of Center Frequency(MHz)	Result (ppm)	Limit (ppm)	State
NT/NV	IEEE 802.11a	36	N/A	0	5180.0	5180.001794	0.35	Within authorized band	PASS
		40			5200.0	5200.001856	0.36		PASS
		48			5240.0	5240.001919	0.37		PASS
		52			5260.0	5260.002044	0.39		PASS
		56			5280.0	5280.002206	0.42		PASS
		64			5320.0	5320.002181	0.41		PASS
		100			5500.0	5500.002156	0.39		PASS
		120			5600.0	5600.002219	0.4		PASS
		140			5700.0	5700.002269	0.4		PASS
	IEEE 802.11n_20	36			5180.0	5180.002206	0.43		PASS
		40			5200.0	5200.002019	0.39		PASS
		48			5240.0	5240.002006	0.38		PASS
		52			5260.0	5260.001981	0.38		PASS
		56			5280.0	5280.002231	0.42		PASS
		64			5320.0	5320.002106	0.4		PASS
		100			5500.0	5500.002219	0.4		PASS
		120			5600.0	5600.002231	0.4		PASS
		140			5700.0	5700.002019	0.35		PASS
	IEEE 802.11n_40	38			5190.0	5190.001719	0.33		PASS
		46			5230.0	5230.002131	0.41		PASS
		54			5270.0	5270.001869	0.35		PASS
		62			5310.0	5310.001894	0.36		PASS
		102			5510.0	5510.001969	0.36		PASS
		118			5590.0	5590.001994	0.36		PASS
		134			5670.0	5670.001956	0.35		PASS
	IEEE 802.11ac_20	36			5180.0	5180.001931	0.37		PASS
		40			5200.0	5200.001856	0.36		PASS
		48			5240.0	5240.001981	0.38		PASS
		52			5260.0	5260.001519	0.29		PASS
		56			5280.0	5280.001819	0.34		PASS
		64			5320.0	5320.002106	0.4		PASS
		100			5500.0	5500.002206	0.4		PASS
		120			5600.0	5600.002244	0.4		PASS
		140			5700.0	5700.002281	0.4		PASS
	IEEE 802.11ac_40	38			5190.0	5190.001731	0.33		PASS
		46			5230.0	5230.001831	0.35		PASS
		54			5270.0	5270.002081	0.39		PASS
		62			5310.0	5310.001781	0.34		PASS
		102			5510.0	5510.001869	0.34		PASS
		118			5590.0	5590.001844	0.33		PASS
		134			5670.0	5670.001931	0.34		PASS
	IEEE 802.11ax_20	36	SU		5180.0	5180.002281	0.44		PASS
		40			5200.0	5200.001981	0.38		PASS
		48			5240.0	5240.001981	0.38		PASS
		52			5260.0	5260.002069	0.39		PASS
		56			5280.0	5280.002294	0.43		PASS
		64			5320.0	5320.002156	0.41		PASS
		100			5500.0	5500.002394	0.44		PASS
		120			5600.0	5600.002481	0.44		PASS
		140			5700.0	5700.002619	0.46		PASS
	IEEE 802.11ax_40	38			5190.0	5190.001756	0.34		PASS
		46			5230.0	5230.002181	0.42		PASS
		54			5270.0	5270.001881	0.36		PASS
		62			5310.0	5310.001831	0.34		PASS
		102			5510.0	5510.001969	0.36		PASS
		118			5590.0	5590.001856	0.33		PASS
		134			5670.0	5670.002381	0.42		PASS

Test Graphs**NT/NV**

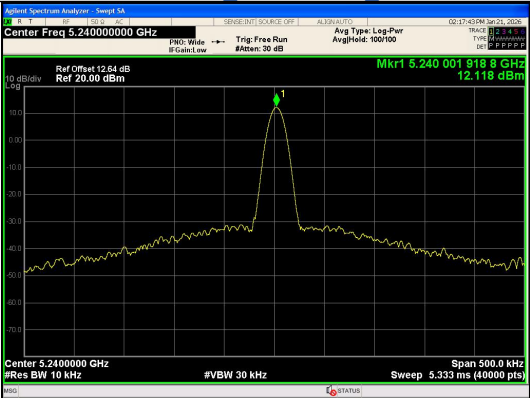
IEEE 802.11a



NT/NV_Antenna 0
IEEE 802.11a_Channel 36_20MHz



NT/NV_Antenna 0
IEEE 802.11a_Channel 40_20MHz



NT/NV_Antenna 0
IEEE 802.11a_Channel 48_20MHz



NT/NV_Antenna 0
IEEE 802.11a_Channel 52_20MHz



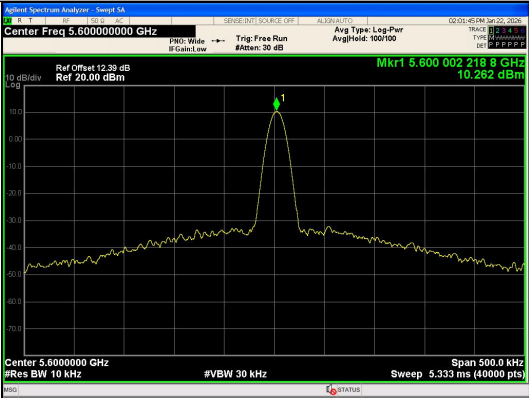
NT/NV_Antenna 0
IEEE 802.11a_Channel 56_20MHz



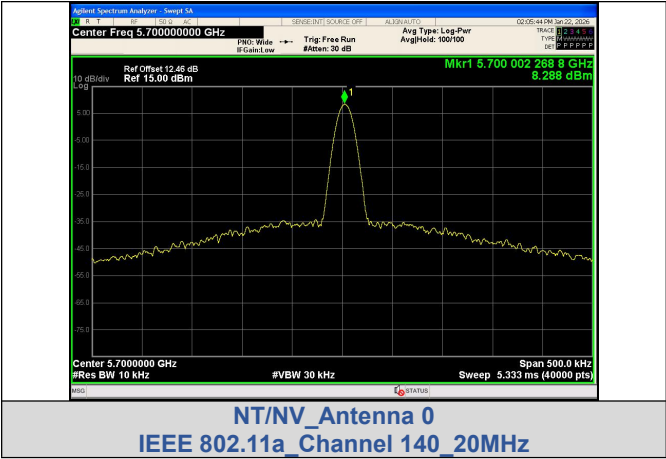
NT/NV_Antenna 0
IEEE 802.11a_Channel 64_20MHz



NT/NV_Antenna 0
IEEE 802.11a_Channel 100_20MHz



NT/NV_Antenna 0
IEEE 802.11a_Channel 120_20MHz



IEEE 802.11n 20

