



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street,
Bao'an District, Shenzhen, China

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No. : CTA25032001403

FCC ID. : ZNPWIFIWD-AX900

Compiled by

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Date of issue : Mar. 31, 2025

Testing Laboratory Name..... : Shenzhen CTA Testing Technology Co., Ltd.

Address : Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,
Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : Shenzhen Century Xinyang Tech Co., Ltd

Address : 3F, North Building, Bantian High-tech industrial Zone, No. 2 of Bell
Road, Longgang, Shenzhen, Guangdong, China

Test specification..... :

Standard..... : FCC Part 15.247

TRF Originator : Shenzhen CTA Testing Technology Co., Ltd.

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Test item description..... : AX900 WiFi Bluetooth USB Adapt

Trade Mark..... : N/A

Manufacturer : Shenzhen Century Xinyang Tech Co., Ltd

Model/Type reference : WD-AX903

Listed Models : WD-AX905, WD-AX906, WD-AX907

Modulation Type..... : CCK/DSSS/OFDM

Operation Frequency : From 2412 - 2462MHz

Rating..... : DC 5.0V From external circuit

Result : PASS

Joan Wu
Eric Wang
approved

Shenzhen CTA Testing Technology Co., Ltd.

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TEST REPORT

Equipment under Test : AX900 WiFi Bluetooth USB Adapt

Model /Type : WD-AX903

Listed Models : WD-AX905, WD-AX906, WD-AX907

Model difference : The PCB board, circuit, structure and interior of these models are the same, Only the antennas size, shell and model name are different.

Applicant : **Shenzhen Century Xinyang Tech Co., Ltd**

Address : 3F, North Building, Bantian High-tech industrial Zone, No. 2 of Bell Road, Longgang, Shenzhen, Guangdong, China

Manufacturer : **Shenzhen Century Xinyang Tech Co., Ltd**

Address : 3F, North Building, Bantian High-tech industrial Zone, No. 2 of Bell Road, Longgang, Shenzhen, Guangdong, China

Test Result:**PASS**

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 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB558074 D01 v05r02](#): Guidance for Compliance Measurements on Digital Transmission Systems (DTS) ,Frequency Hopping Spread Spectrum System(HFSS), and Hybrid System Devices Operating Under §15.247 of The FCC rules.

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Mar. 20, 2025
Testing commenced on	:	Mar. 20, 2025
Testing concluded on	:	Mar. 31, 2025

2.2 Product Description

Product Description:	AX900 WiFi Bluetooth USB Adapt
Model/Type reference:	WD-AX903
Power supply:	DC 5.0V From external circuit
Hardware version:	V1.1
Software version:	V1.0
testing sample ID:	CTA250320014-1# (Engineer sample) CTA250320014-2# (Normal sample)
WIFI :	
Supported type:	802.11b/802.11g/802.11n(H20)/ 802.11n(H40)/802.11ax(H20)/ 802.11ax(H40)
Modulation:	802.11b: DSSS 802.11g/802.11n(H20)/ 802.11n(H40):OFDM 802.11ax(H20)/ 802.11ax(H40): OFDMA
Operation frequency:	802.11b/802.11g/802.11n(H20)/802.11ax(H20): 2412MHz~2462MHz 802.11n(H40)/802.11ax(H40): 2422MHz~2452MHz
Channel number:	802.11b/802.11g/802.11n(H20)/802.11ax(H20): 11 802.11n(H40)/802.11ax(H40):7
RU mode:	Only support full RU mode
Channel separation:	5MHz
Antenna type:	External antenna
Antenna gain:	2.0 dBi

2.3 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 5.0V From external circuit

2.4 Short description of the Equipment under Test (EUT)

This is an AX900 WiFi Bluetooth USB Adapt.
For more details, refer to the user's manual of the EUT.

2.5 EUT configuration

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

- - supplied by the manufacturer
- - supplied by the lab

○ PC	Model: E470C Trade Mark: thinkpad
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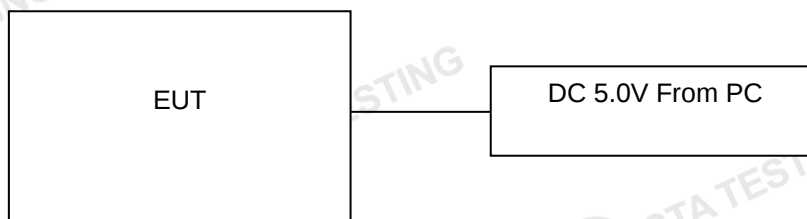
2.6 EUT operation mode

The application provider specific test software(AT command) to control sample in continuous TX and RX (Duty Cycle >98%) for testing meet KDB558074 test requirement.

IEEE 802.11b/g/n: Thirteen channels are provided to the EUT.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

2.7 Block Diagram of Test Setup



2.8 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.9 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

ISED#: 27890 CAB identifier: CN0127

Shenzhen CTA Testing Technology Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Radiated Emission:

Temperature:	25 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	25 ° C
Humidity:	44 %
Atmospheric pressure:	950-1050mbar

AC Power Conducted Emission

Temperature:	24 ° C
Humidity:	44 %
Atmospheric pressure:	950-1050mbar

3.4 Test Description

FCC PART 15.247		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247(a)(2)	6dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Conducted Output Power	PASS
FCC Part 15.247(e)	Power Spectral Density	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS

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	Channel
Maximum Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission Radiated Emission 9KHz~1GHz& Radiated Emission 1GHz~10 th Harmonic	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n(20MHz)/11ax(20MHz)/OFDM	MCS0	1/6/11
	11n(40MHz)/11ax(40MHz)/OFDM	MCS0	3/6/9
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/11ax(20MHz)/OFDM	MCS0	1/11
	11n(40MHz)/11ax(40MHz)/OFDM	MCS0	3/9

3.5 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 TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology 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 CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB	(1)
Spectrum bandwidth	/	1.1%	(1)

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Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)

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

3.6 Equipments Used during the Test

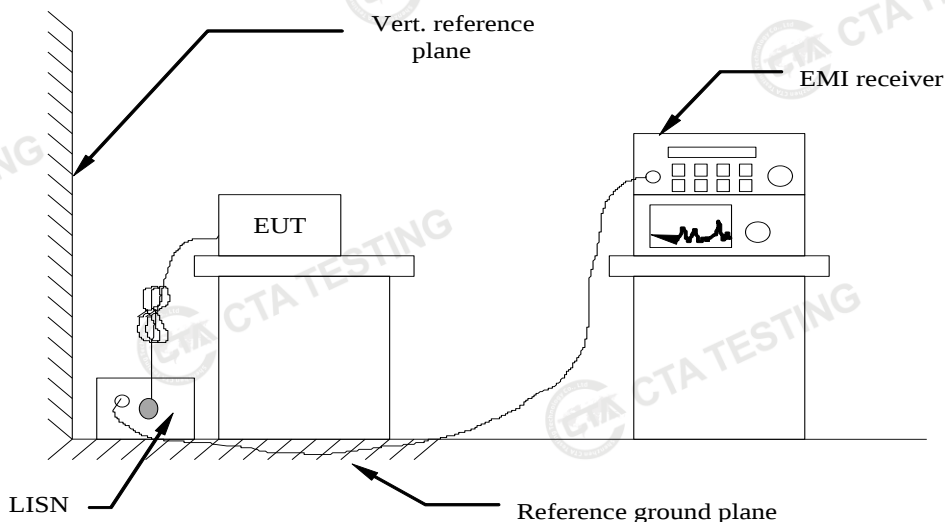
Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	CTA-308	2024/08/03	2025/08/02
LISN	R&S	ENV216	CTA-314	2024/08/03	2025/08/02
EMI Test Receiver	R&S	ESPI	CTA-307	2024/08/03	2025/08/02
EMI Test Receiver	R&S	ESCI	CTA-306	2024/08/03	2025/08/02
Spectrum Analyzer	Agilent	N9020A	CTA-301	2024/08/03	2025/08/02
Spectrum Analyzer	R&S	FSU	CTA-337	2024/08/03	2025/08/02
Vector Signal generator	Agilent	N5182A	CTA-305	2024/08/03	2025/08/02
Analog Signal Generator	R&S	SML03	CTA-304	2024/08/03	2025/08/02
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	R&S	CTA-302	2024/08/03	2025/08/02
Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2024/08/03	2025/08/02
Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2026/10/16
Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2026/10/12
Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2026/10/16
Broadband Horn Antenna	A-INFOMW	LB-180500H-2.4F	CTA-336	2023/09/13	2026/09/12
Amplifier	Schwarzbeck	BBV 9745	CTA-312	2024/08/03	2025/08/02
Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2024/08/03	2025/08/02
Directional coupler	NARDA	4226-10	CTA-303	2024/08/03	2025/08/02
High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2024/08/03	2025/08/02
High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2024/08/03	2025/08/02
Automated filter bank	Tonscend	JS0806-F	CTA-404	2024/08/03	2025/08/02
Power Sensor	Agilent	U2021XA	CTA-405	2024/08/03	2025/08/02
Amplifier	Schwarzbeck	BBV9719	CTA-406	2024/08/03	2025/08/02

Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date
EMI Test Software	Tonscend	TS@JS32-RE	5.0.0.2	N/A	N/A
EMI Test Software	Tonscend	TS@JS32-CE	5.0.0.1	N/A	N/A
RF Test Software	Tonscend	TS@JS1120-3	3.1.65	N/A	N/A
RF Test Software	Tonscend	TS@JS1120	3.1.46	N/A	N/A

4 TEST CONDITIONS AND RESULTS

4.1 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 C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received 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

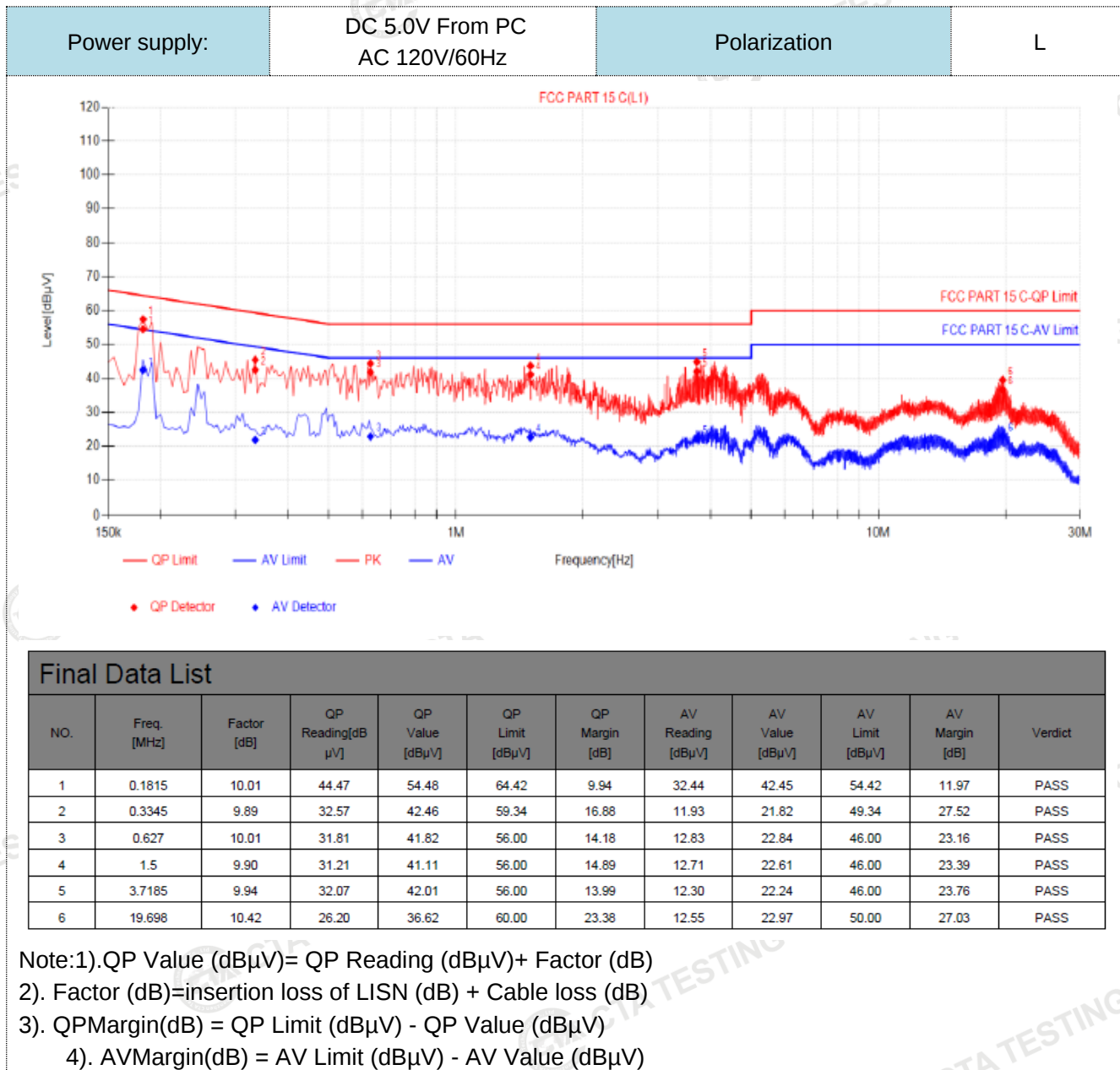
* Decreases with the logarithm of the frequency.

TEST RESULTS

Remark:

1. All modes of 802.11b/g/n/ax were tested at Low, Middle, and High channel; only the worst result of 802.11b CH11 was reported as below:
2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

Model: WD-AX903

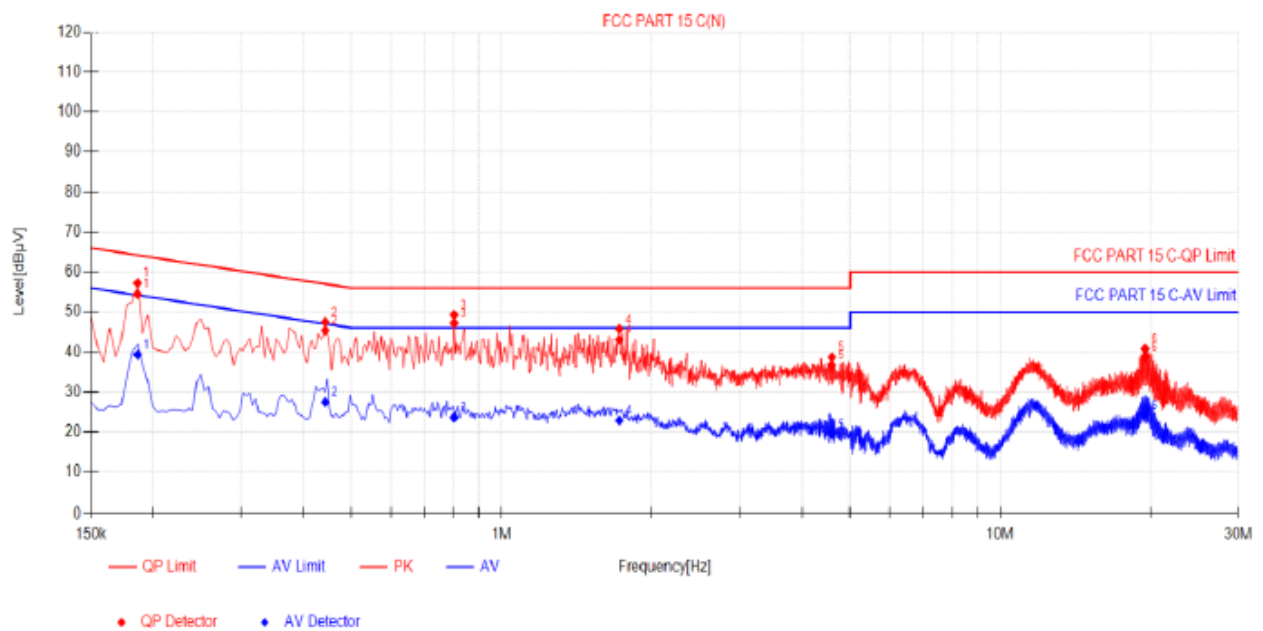


Power supply:

DC 5.0V From PC
AC 120V/60Hz

Polarization

N



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.186	10.01	44.43	54.44	64.21	9.77	29.31	39.32	54.21	14.89	PASS
2	0.4425	9.97	35.41	45.38	57.01	11.63	17.48	27.45	47.01	19.56	PASS
3	0.8025	10.14	37.06	47.20	56.00	8.80	13.48	23.62	46.00	22.38	PASS
4	1.7205	10.16	32.85	43.01	56.00	12.99	12.73	22.89	46.00	23.11	PASS
5	4.596	10.10	26.56	36.66	56.00	19.34	9.39	19.49	46.00	26.51	PASS
6	19.518	10.56	28.21	38.77	60.00	21.23	13.78	24.34	50.00	25.66	PASS

Note:1). QP Value (dBμV) = QP Reading (dBμV) + Factor (dB)

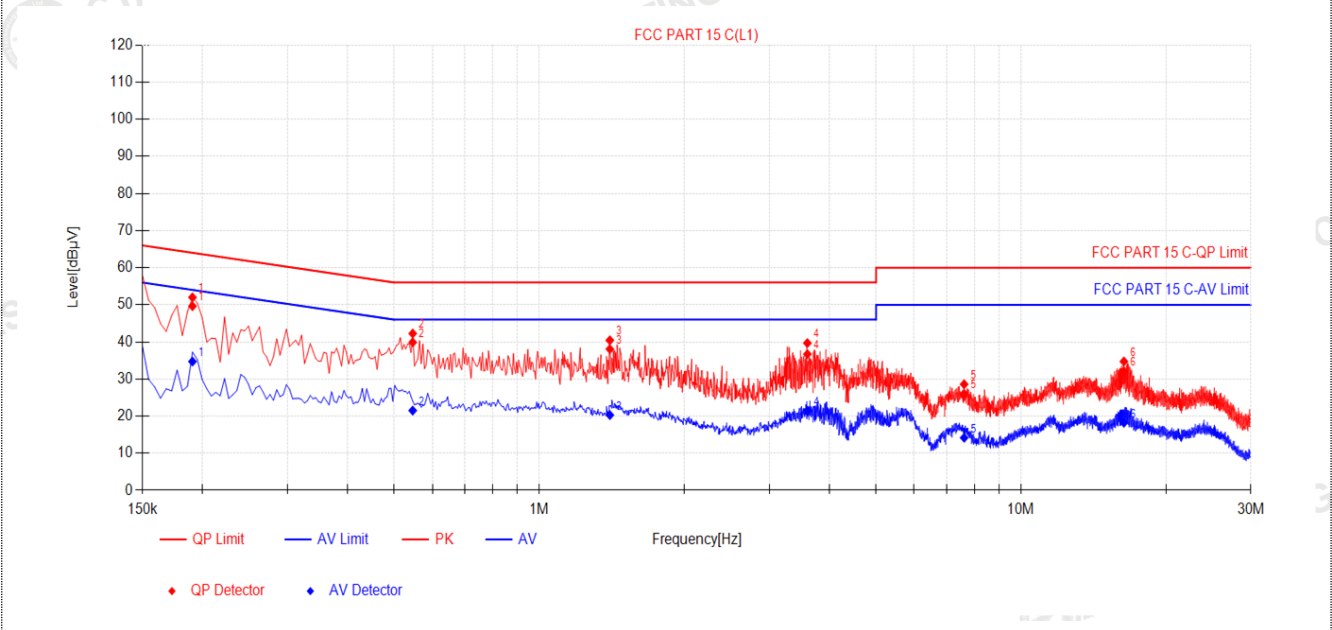
2). Factor (dB) = insertion loss of LISN (dB) + Cable loss (dB)

3). QPMargin (dB) = QP Limit (dBμV) - QP Value (dBμV)

4). AVMargin (dB) = AV Limit (dBμV) - AV Value (dBμV)

Model: WD-AX906

Power supply:	DC 5.0V From PC AC 120V/60Hz	Polarization	L
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Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB µV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1905	10.05	39.58	49.63	64.01	14.38	24.67	34.72	54.01	19.29	PASS
2	0.546	10.03	29.86	39.89	56.00	16.11	11.47	21.50	46.00	24.50	PASS
3	1.401	9.90	28.16	38.06	56.00	17.94	10.38	20.28	46.00	25.72	PASS
4	3.6015	9.96	26.75	36.71	56.00	19.29	11.51	21.47	46.00	24.53	PASS
5	7.62	10.29	15.71	26.00	60.00	34.00	3.87	14.16	50.00	35.84	PASS
6	16.3545	10.34	21.69	32.03	60.00	27.97	7.88	18.22	50.00	31.78	PASS

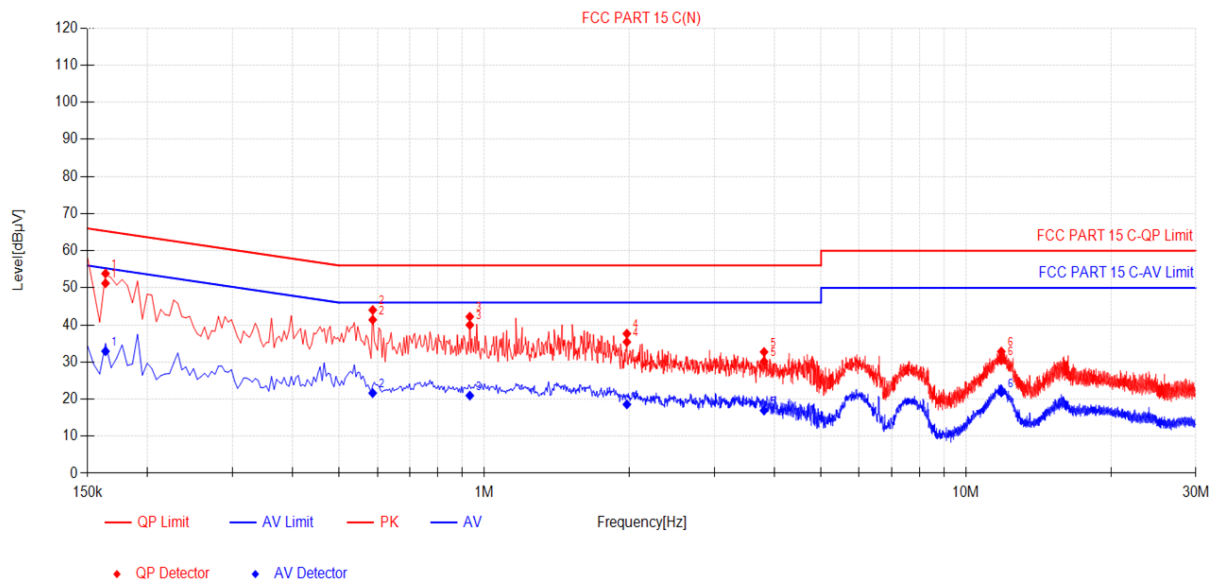
- Note:1).QP Value (dBµV)= QP Reading (dBµV)+ Factor (dB)
2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
3). QPMargin(dB) = QP Limit (dBµV) - QP Value (dBµV)
4). AVMargin(dB) = AV Limit (dBµV) - AV Value (dBµV)

Power supply:

DC 5.0V From PC
AC 120V/60Hz

Polarization

N



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1635	10.05	41.15	51.20	65.28	14.08	22.85	32.90	55.28	22.38	PASS
2	0.5865	10.13	31.24	41.37	56.00	14.63	11.50	21.63	46.00	24.37	PASS
3	0.933	10.12	29.86	39.98	56.00	16.02	10.83	20.95	46.00	25.05	PASS
4	1.977	10.19	25.20	35.39	56.00	20.61	8.39	18.58	46.00	27.42	PASS
5	3.8085	10.14	20.03	30.17	56.00	25.83	6.79	16.93	46.00	29.07	PASS
6	11.841	10.41	20.05	30.46	60.00	29.54	11.40	21.81	50.00	28.19	PASS

Note:1). QP Value (dBμV) = QP Reading (dBμV) + Factor (dB)

2). Factor (dB) = insertion loss of LISN (dB) + Cable loss (dB)

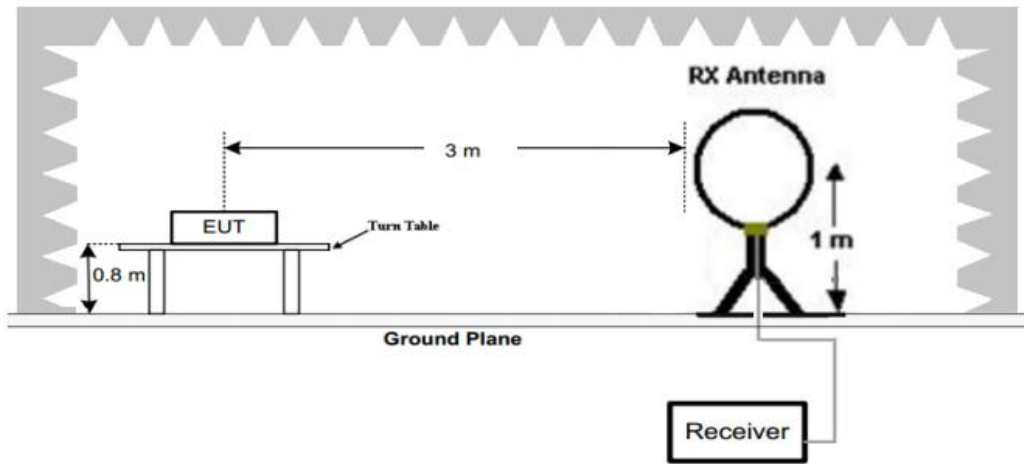
3). QPMargin(dB) = QP Limit (dBμV) - QP Value (dBμV)

4). AVMargin(dB) = AV Limit (dBμV) - AV Value (dBμV)

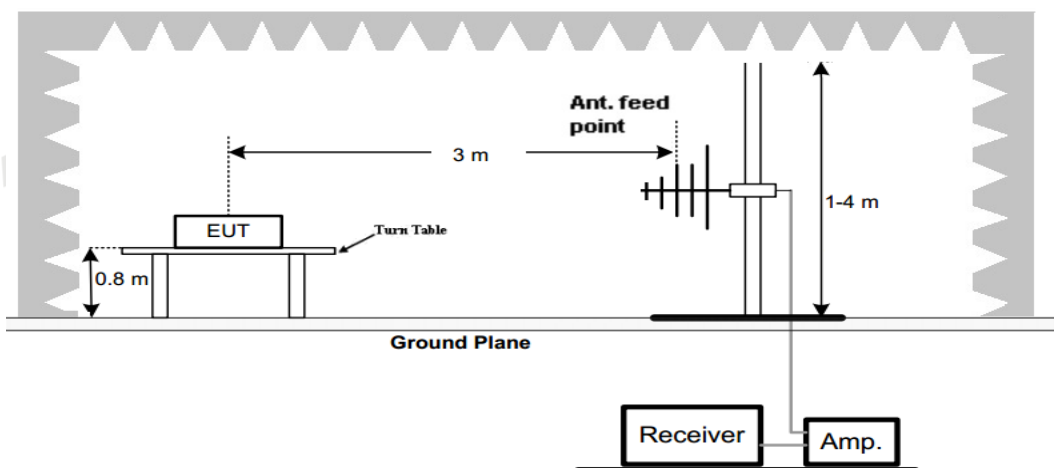
4.2 Radiated Emission

TEST CONFIGURATION

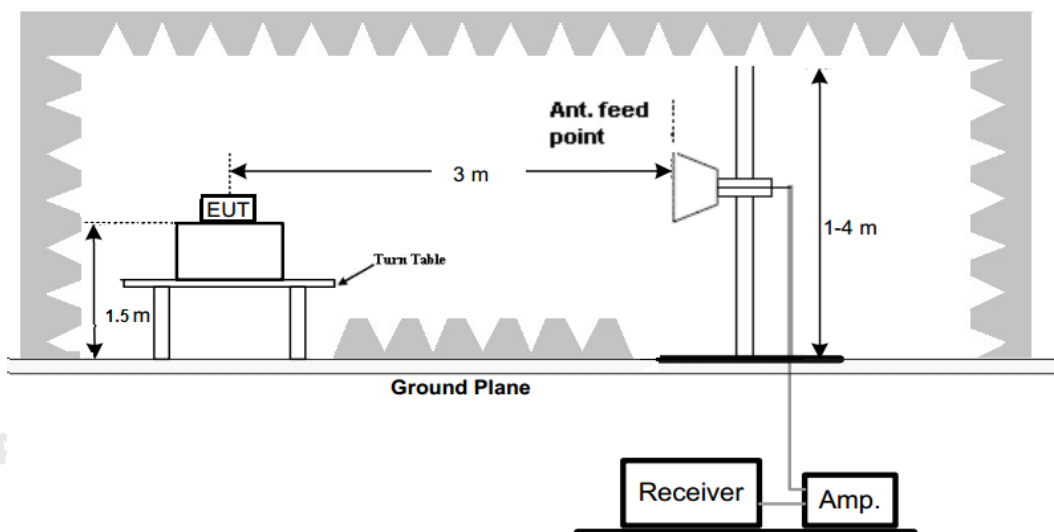
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz

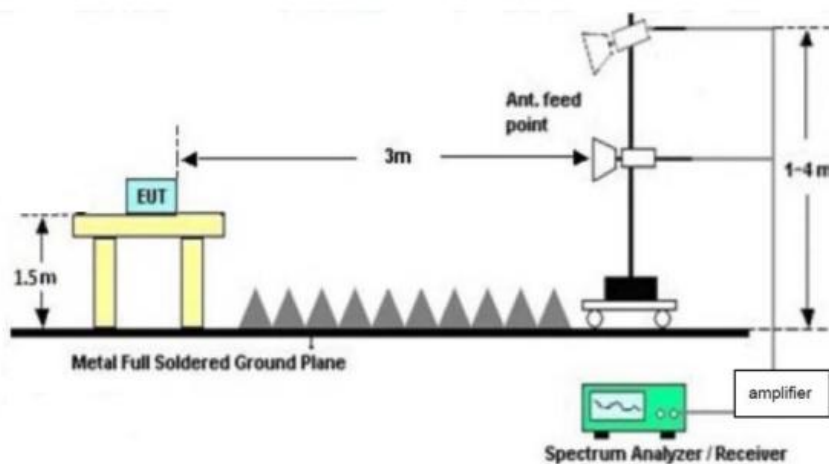


(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



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





TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. 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.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 9KHz to 25GHz.
6. 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	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. 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

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

$$\text{Transd}=AF +CL-AG$$

RADIATION LIMIT

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For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

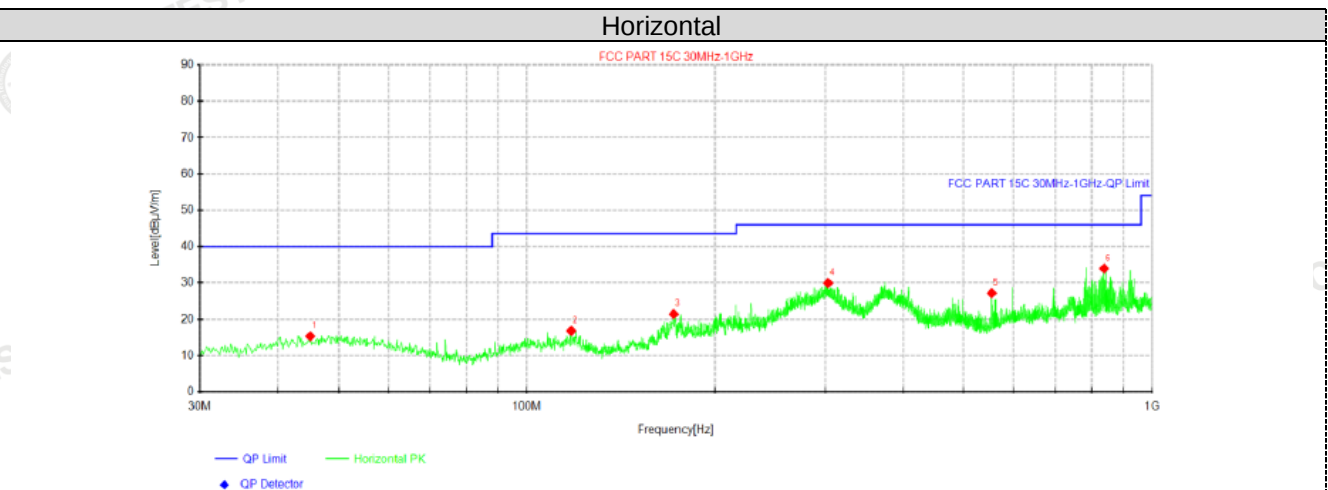
Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960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

TEST RESULTS

Remark:

1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
2. All three channels (lowest/middle/highest) of each mode were measured below 1GHz and recorded worst case at 802.11b low channel.
3. 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.

For 30MHz-1GHz
Model: WD-AX903



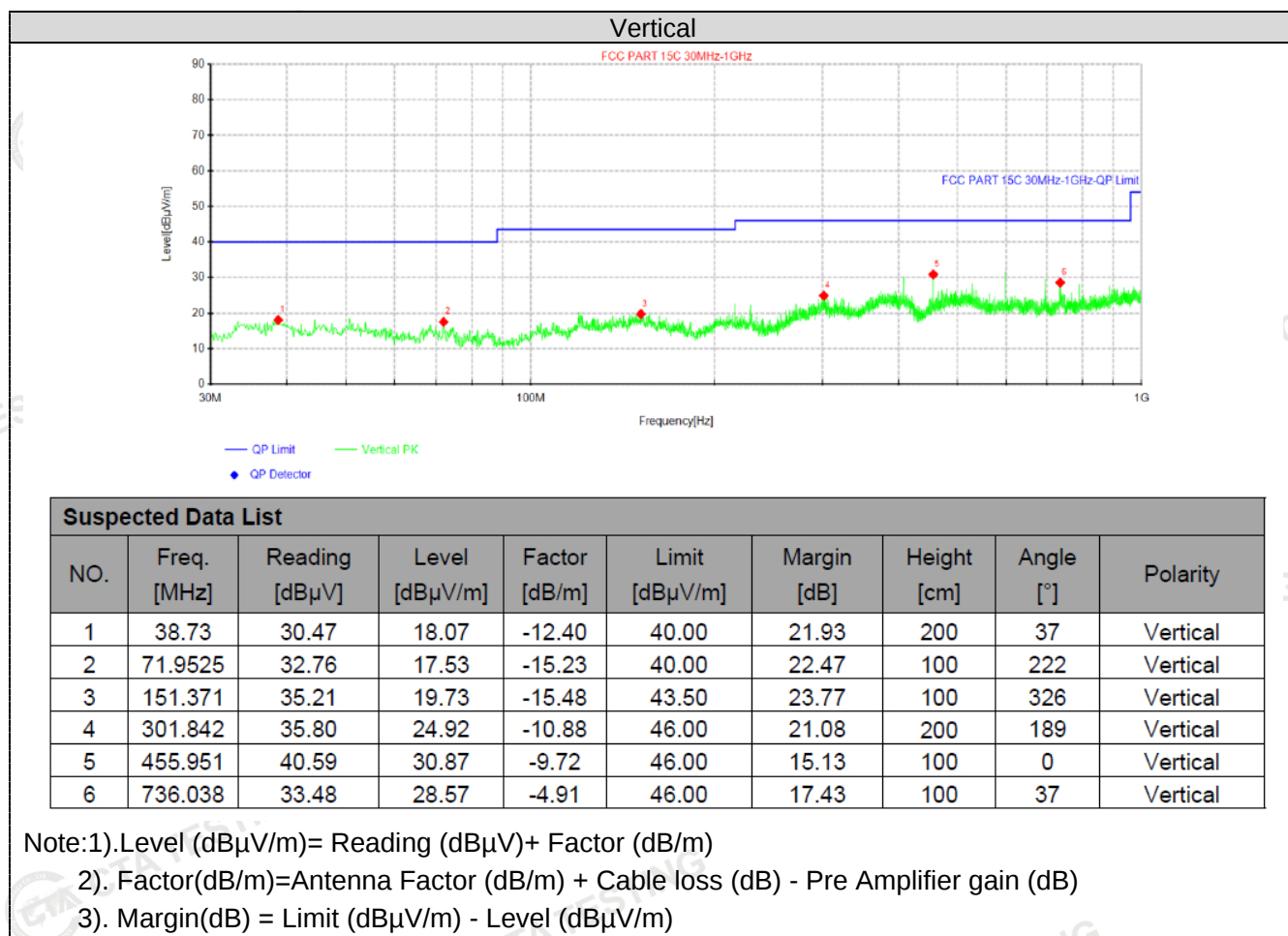
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.035	26.78	15.34	-11.44	40.00	24.66	200	102	Horizontal
2	117.785	30.56	16.80	-13.76	43.50	26.70	100	333	Horizontal
3	171.741	36.34	21.40	-14.94	43.50	22.10	100	69	Horizontal
4	303.176	40.84	29.96	-10.88	46.00	16.04	200	253	Horizontal
5	553.921	35.82	27.19	-8.63	46.00	18.81	100	102	Horizontal
6	838.252	37.96	33.96	-4.00	46.00	12.04	100	114	Horizontal

Note:1). Level (dBμV/m)= Reading (dBμV)+ Factor (dB/m)

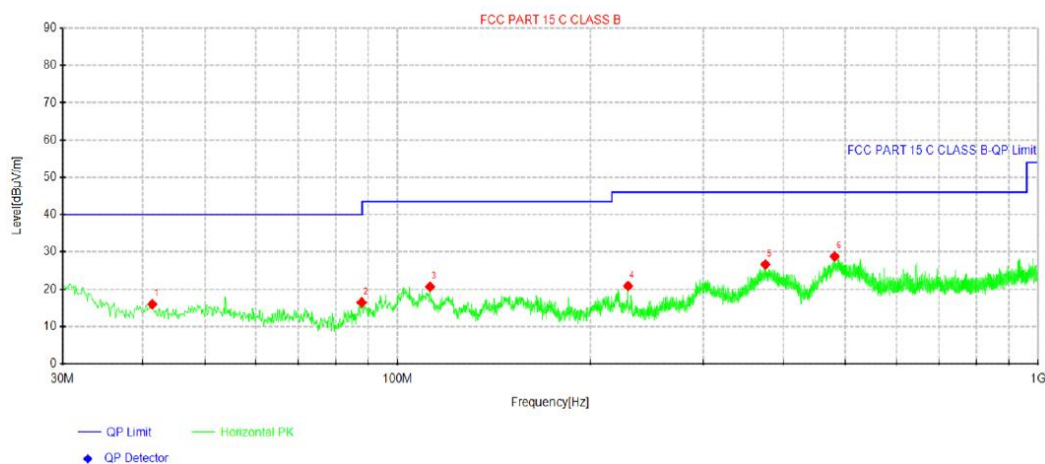
2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBμV/m) - Level (dBμV/m)



Model: WD-AX906

Horizontal



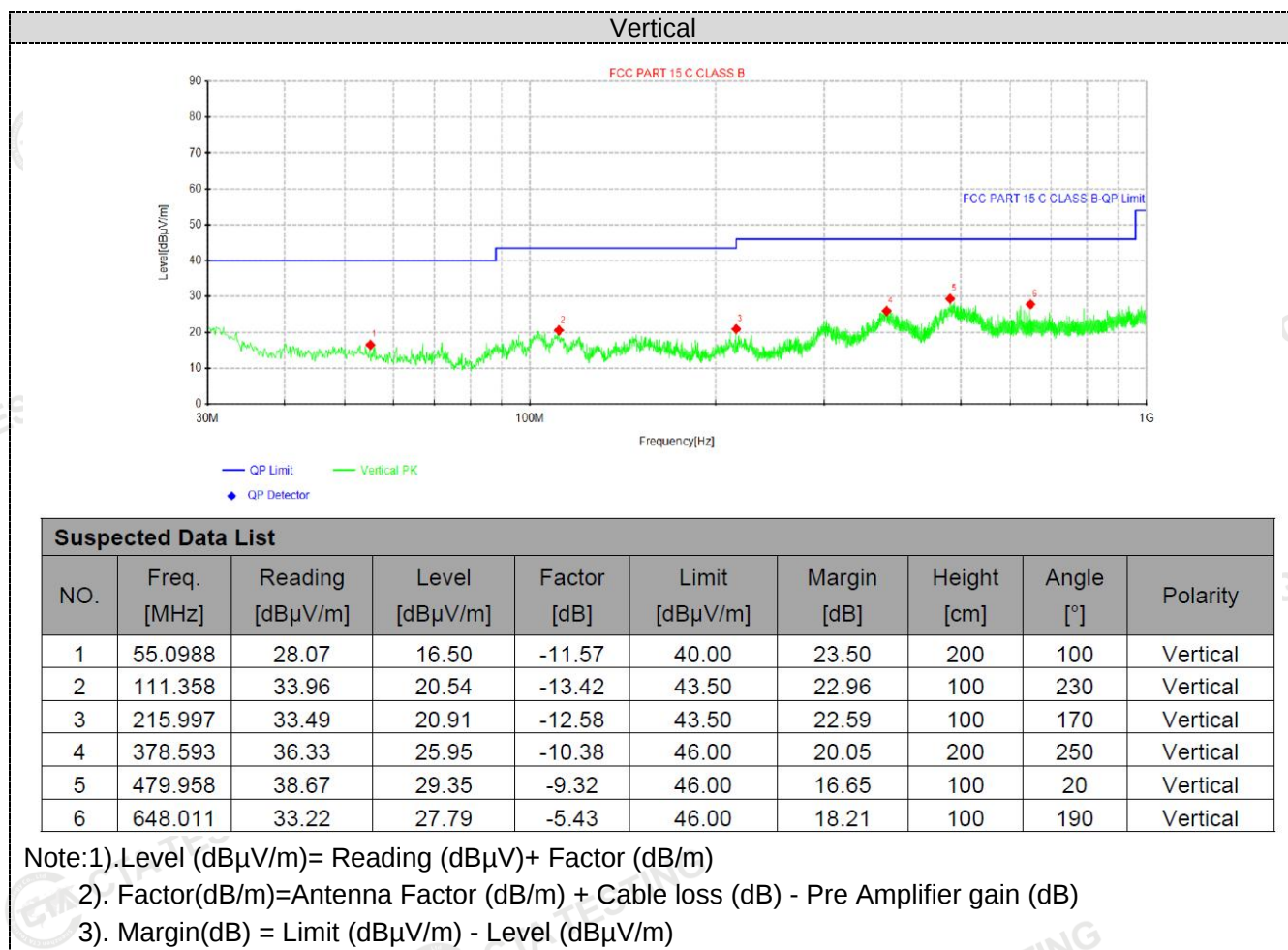
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.3975	27.78	15.97	-11.81	40.00	24.03	200	360	Horizontal
2	87.8363	31.64	16.45	-15.19	40.00	23.55	100	30	Horizontal
3	112.328	34.16	20.67	-13.49	43.50	22.83	100	170	Horizontal
4	228.971	33.30	20.86	-12.44	46.00	25.14	200	120	Horizontal
5	374.956	37.11	26.65	-10.46	46.00	19.35	100	20	Horizontal
6	480.928	38.11	28.79	-9.32	46.00	17.21	100	250	Horizontal

Note:1).Level (dBμV/m)= Reading (dBμV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBμV/m) - Level (dBμV/m)



Model: WD-AX903**For 1GHz to 25GHz**

Note: 802.11b/802.11g/802.11n (H20)/802.11ax (H20)/ 802.11n (H40) / 802.11ax (H40) Mode all have been tested, only worse case 802.11b mode is reported

(above 1GHz)

Frequency(MHz):			2412		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4824.00	61.79	PK	74	12.21	66.15	32.4	5.11	41.87	-4.36
4824.00	45.37	AV	54	8.63	49.73	32.4	5.11	41.87	-4.36
7236.00	54.59	PK	74	19.41	55.22	36.58	6.43	43.64	-0.63
7236.00	43.36	AV	54	10.64	43.99	36.58	6.43	43.64	-0.63

Frequency(MHz):			2412		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4824.00	60.04	PK	74	13.96	64.40	32.4	5.11	41.87	-4.36
4824.00	44.69	AV	54	9.31	49.05	32.4	5.11	41.87	-4.36
7236.00	51.58	PK	74	22.42	52.21	36.58	6.43	43.64	-0.63
7236.00	41.26	AV	54	12.74	41.89	36.58	6.43	43.64	-0.63

Frequency(MHz):			2437		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4874.00	61.17	PK	74	12.83	65.12	32.56	5.34	41.85	-3.95
4874.00	44.81	AV	54	9.19	48.76	32.56	5.34	41.85	-3.95
7311.00	53.74	PK	74	20.26	54.10	36.54	6.81	43.71	-0.36
7311.00	42.71	AV	54	11.29	43.07	36.54	6.81	43.71	-0.36

Frequency(MHz):			2437		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4874.00	59.41	PK	74	14.59	63.36	32.56	5.34	41.85	-3.95
4874.00	42.72	AV	54	11.28	46.67	32.56	5.34	41.85	-3.95
7311.00	52.23	PK	74	21.77	52.59	36.54	6.81	43.71	-0.36
7311.00	41.11	AV	54	12.89	41.47	36.54	6.81	43.71	-0.36

Frequency(MHz):			2462		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4924.00	60.54	PK	74	13.46	64.00	32.73	5.64	41.83	-3.46
4924.00	44.19	AV	54	9.81	47.65	32.73	5.64	41.83	-3.46
7386.00	52.91	PK	74	21.09	52.97	36.5	7.23	43.79	-0.06
7386.00	42.18	AV	54	11.82	42.24	36.5	7.23	43.79	-0.06

Frequency(MHz):			2462		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4924.00	58.64	PK	74	15.36	62.10	32.73	5.64	41.83	-3.46
4924.00	42.18	AV	54	11.82	45.64	32.73	5.64	41.83	-3.46
7386.00	51.13	PK	74	22.87	51.19	36.5	7.23	43.79	-0.06

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7386.00	40.34	AV	54	13.66	40.40	36.5	7.23	43.79	-0.06
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- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) 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.

Results of Band Edges Test (Radiated)

Note: 802.11b/802.11g/802.11n (H20)/802.11ax (H20)/ 802.11n (H40) / 802.11ax (H40) Mode all have been tested, only worse case 802.11b mode is reported

Frequency(MHz):			2412		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390.00	61.79	PK	74	12.21	72.21	27.42	4.31	42.15	-10.42
2390.00	42.92	AV	54	11.08	53.34	27.42	4.31	42.15	-10.42
Frequency(MHz):			2412		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390.00	59.77	PK	74	14.23	70.19	27.42	4.31	42.15	-10.42
2390.00	40.87	AV	54	13.13	51.29	27.42	4.31	42.15	-10.42
Frequency(MHz):			2462		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	61.17	PK	74	12.83	71.28	27.7	4.47	42.28	-10.11
2483.50	42.16	AV	54	11.84	52.27	27.7	4.47	42.28	-10.11
Frequency(MHz):			2462		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	59.47	PK	74	14.53	69.58	27.7	4.47	42.28	-10.11
2483.50	40.30	AV	54	13.70	50.41	27.7	4.47	42.28	-10.11

Note:

- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) 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.

Model: WD-AX906**For 1GHz to 25GHz**

Note: 802.11b/802.11g/802.11n (H20)/802.11ax (H20)/ 802.11n (H40) / 802.11ax (H40) Mode all have been tested, only worse case 802.11b mode is reported

(above 1GHz)

Frequency(MHz):			2412		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4824.00	62.15	PK	74	11.85	66.51	32.4	5.11	41.87	-4.36
4824.00	45.09	AV	54	8.91	49.45	32.4	5.11	41.87	-4.36
7236.00	54.44	PK	74	19.56	55.07	36.58	6.43	43.64	-0.63
7236.00	43.38	AV	54	10.62	44.01	36.58	6.43	43.64	-0.63

Frequency(MHz):			2412		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4824.00	60.37	PK	74	13.63	64.73	32.4	5.11	41.87	-4.36
4824.00	43.23	AV	54	10.77	47.59	32.4	5.11	41.87	-4.36
7236.00	52.26	PK	74	21.74	52.89	36.58	6.43	43.64	-0.63
7236.00	41.59	AV	54	12.41	42.22	36.58	6.43	43.64	-0.63

Frequency(MHz):			2437		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4874.00	61.54	PK	74	12.46	65.49	32.56	5.34	41.85	-3.95
4874.00	44.39	AV	54	9.61	48.34	32.56	5.34	41.85	-3.95
7311.00	53.69	PK	74	20.31	54.05	36.54	6.81	43.71	-0.36
7311.00	42.73	AV	54	11.27	43.09	36.54	6.81	43.71	-0.36

Frequency(MHz):			2437		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4874.00	59.64	PK	74	14.36	63.59	32.56	5.34	41.85	-3.95
4874.00	42.32	AV	54	11.68	46.27	32.56	5.34	41.85	-3.95
7311.00	51.72	PK	74	22.28	52.08	36.54	6.81	43.71	-0.36
7311.00	40.98	AV	54	13.02	41.34	36.54	6.81	43.71	-0.36

Frequency(MHz):			2462		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4924.00	60.77	PK	74	13.23	64.23	32.73	5.64	41.83	-3.46
4924.00	42.78	AV	54	11.22	46.24	32.73	5.64	41.83	-3.46
7386.00	52.14	PK	74	21.86	52.20	36.5	7.23	43.79	-0.06
7386.00	42.14	AV	54	11.86	42.20	36.5	7.23	43.79	-0.06

Frequency(MHz):			2462		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4924.00	58.80	PK	74	15.20	62.26	32.73	5.64	41.83	-3.46
4924.00	41.24	AV	54	12.76	44.70	32.73	5.64	41.83	-3.46
7386.00	50.64	PK	74	23.36	50.70	36.5	7.23	43.79	-0.06

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7386.00	40.43	AV	54	13.57	40.49	36.5	7.23	43.79	-0.06
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- 6) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 7) Margin value = Limits-Emission level.
- 8) -- Mean the PK detector measured value is below average limit.
- 9) The other emission levels were very low against the limit.
- 10) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Results of Band Edges Test (Radiated)

Note: 802.11b/802.11g/802.11n (H20)/802.11ax (H20)/ 802.11n (H40) / 802.11ax (H40) Mode all have been tested, only worse case 802.11b mode is reported

Frequency(MHz):			2412		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390.00	61.82	PK	74	12.18	72.24	27.42	4.31	42.15	-10.42
2390.00	42.66	AV	54	11.34	53.08	27.42	4.31	42.15	-10.42
Frequency(MHz):			2412		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390.00	60.19	PK	74	13.81	70.61	27.42	4.31	42.15	-10.42
2390.00	40.90	AV	54	13.10	51.32	27.42	4.31	42.15	-10.42
Frequency(MHz):			2462		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	61.19	PK	74	12.81	71.30	27.7	4.47	42.28	-10.11
2483.50	42.00	AV	54	12.00	52.11	27.7	4.47	42.28	-10.11
Frequency(MHz):			2462		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	59.16	PK	74	14.84	69.27	27.7	4.47	42.28	-10.11
2483.50	40.16	AV	54	13.84	50.27	27.7	4.47	42.28	-10.11

Note:

- 6) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 7) Margin value = Limits-Emission level.
- 8) -- Mean the PK detector measured value is below average limit.
- 9) The other emission levels were very low against the limit.
- 10) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

4.3 Maximum Peak Conducted Output Power

Limit

The Maximum Peak Output Power Measurement is 30dBm.

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

Type	Channel	Output power PK (dBm)	Limit (dBm)	Result
802.11b	01	14.43	30.00	Pass
	06	13.06		
	11	14.28		
802.11g	01	12.96	30.00	Pass
	06	12.81		
	11	12.74		
802.11n(HT20)	01	13.15	30.00	Pass
	06	13.57		
	11	13.23		
802.11n(HT40)	03	13.38	30.00	Pass
	06	12.94		
	09	13.95		
802.11ax(HT20)	01	14.19	30.00	Pass
	06	13.58		
	11	13.19		
802.11ax(HT40)	03	13.54	30.00	Pass
	06	12.98		
	09	14.12		

Note:

- 1) Measured output power at difference data rate for each mode and recorded worst case for each mode.
- 2) Test results including cable loss.
- 3) Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; MCS0 at IEEE 802.11n/ax HT20; MCS0 at IEEE 802.11n/ax HT40;

4.4 Power Spectral Density

Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

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 ≥ 3 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Set the span to 1.5 times the DTS channel bandwidth.
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.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be 8dBm.

Test Configuration



Test Results

Type	Channel	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-11.48	8.00	Pass
	06	-12.58		
	11	-11.65		
802.11g	01	-18.38	8.00	Pass
	06	-18.59		
	11	-18.64		
802.11n(HT20)	01	-17.91	8.00	Pass
	06	-17.42		
	11	-19.51		
802.11n(HT40)	03	-20.71	8.00	Pass
	06	-20.86		
	09	-20.50		
802.11ax(HT20)	01	-17.53	8.00	Pass
	06	-18.33		
	11	-18.57		
802.11ax(HT40)	03	-21.80	8.00	Pass
	06	-20.96		
	09	-21.11		

Note:

- 1) Measured peak power spectrum density at difference data rate for each mode and recorded worst case for each mode.

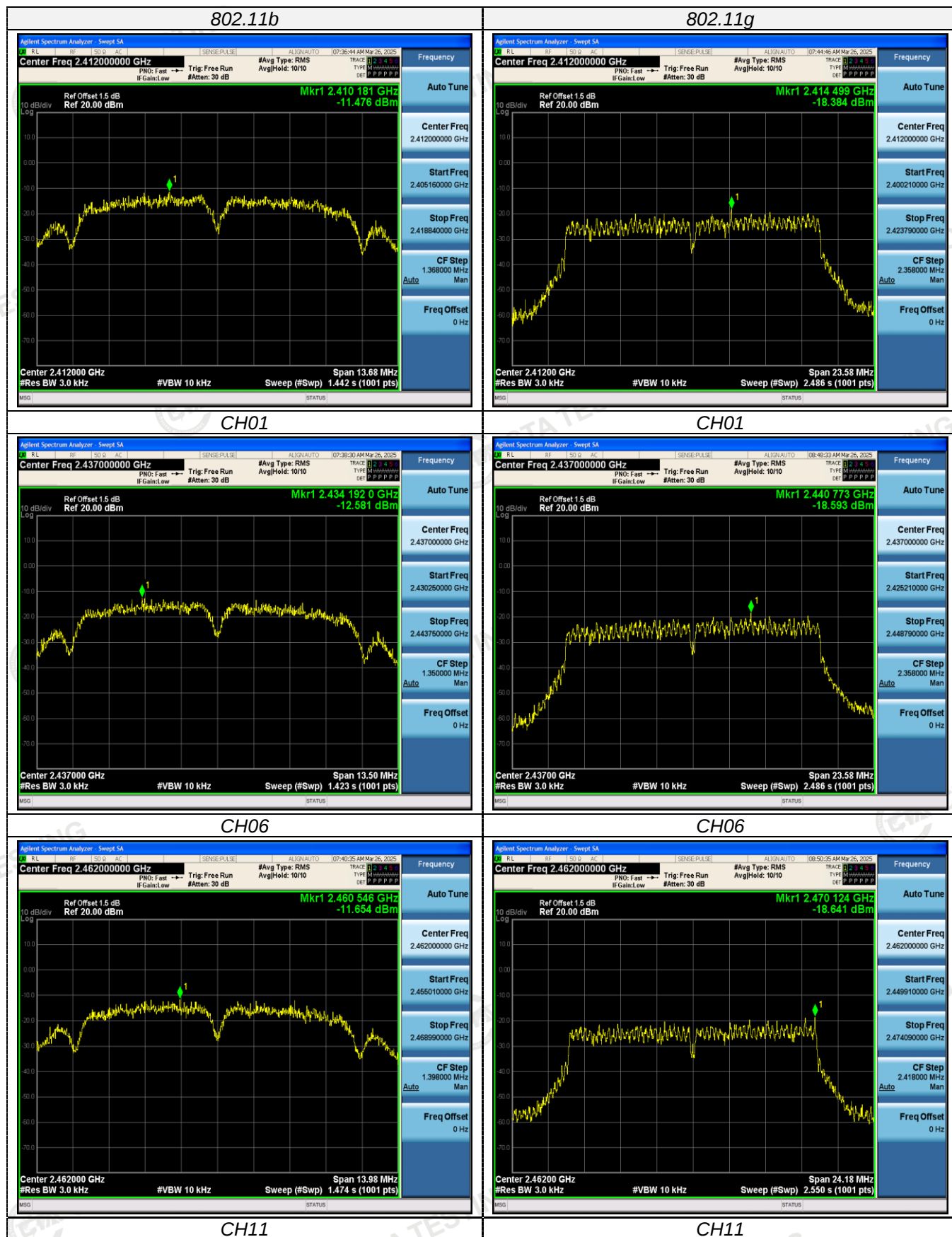
Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

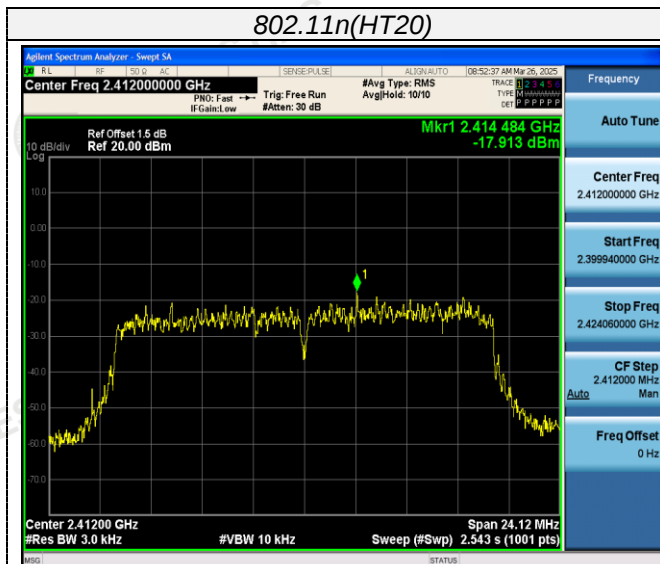
Tel: +86-755 2322 5875 E-mail: cta@cta-test.cn Web: http://www.cta-test.cn

- 2) Test results including cable loss;
- 3) Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; MCS0 at IEEE 802.11n/ax HT20; MCS0 at IEEE 802.11n/ax HT40;

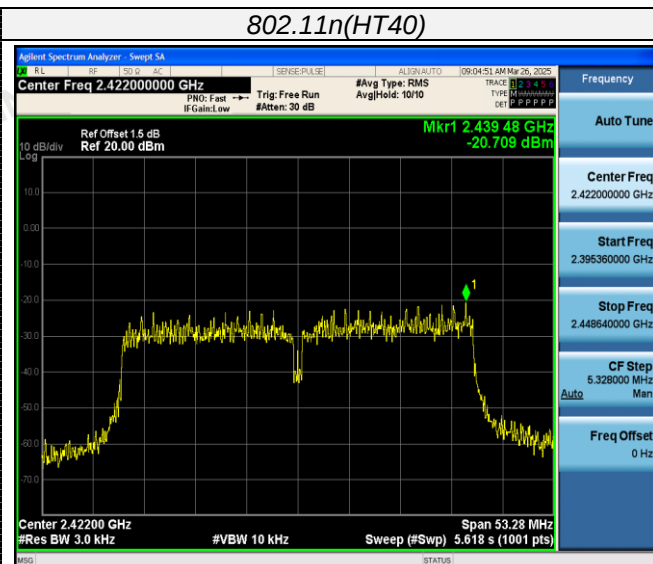
Please refer to following plots;



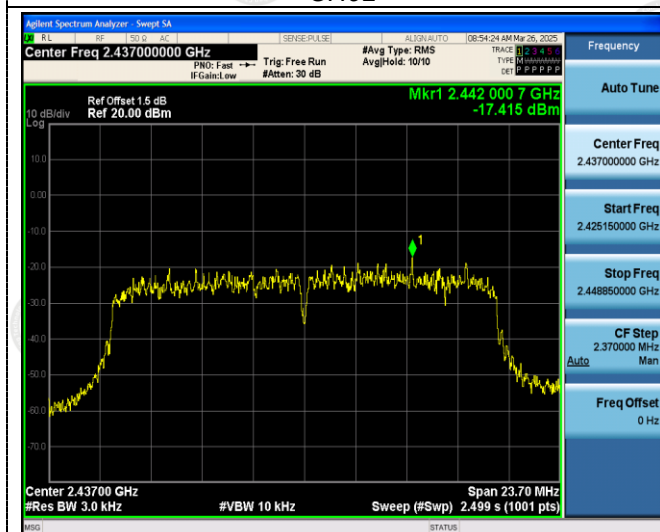
802.11n(HT20)



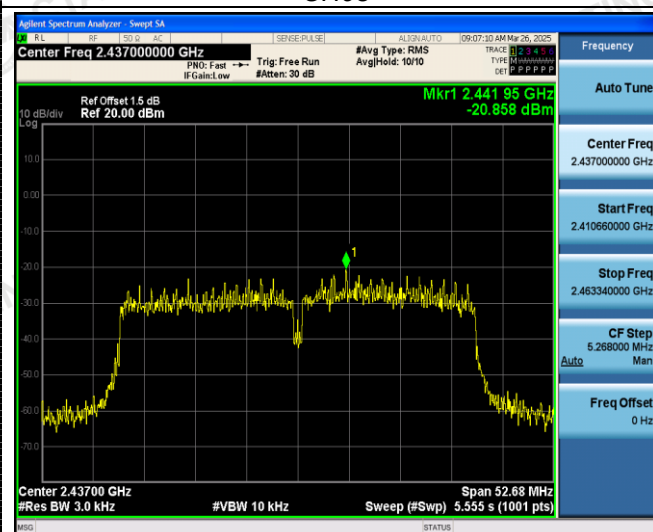
802.11n(HT40)



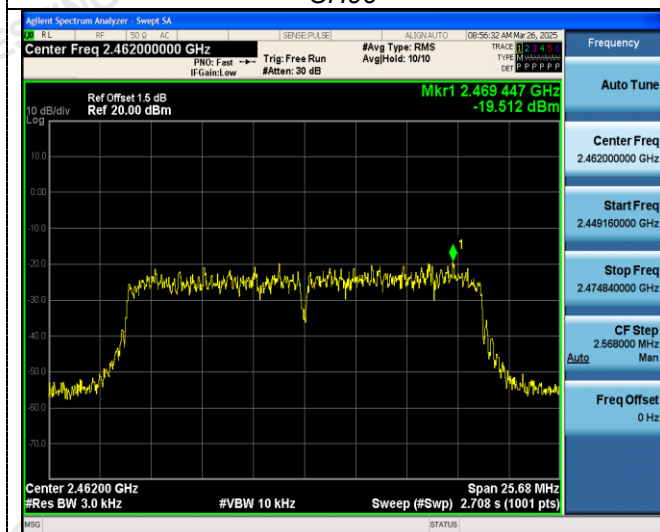
CH01



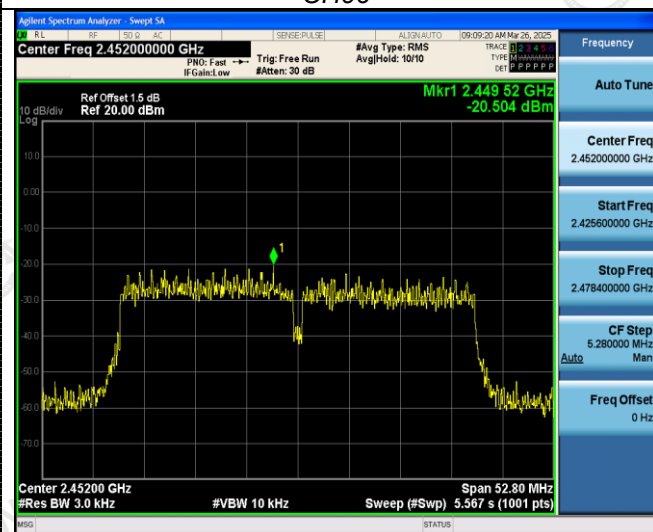
CH03



CH06

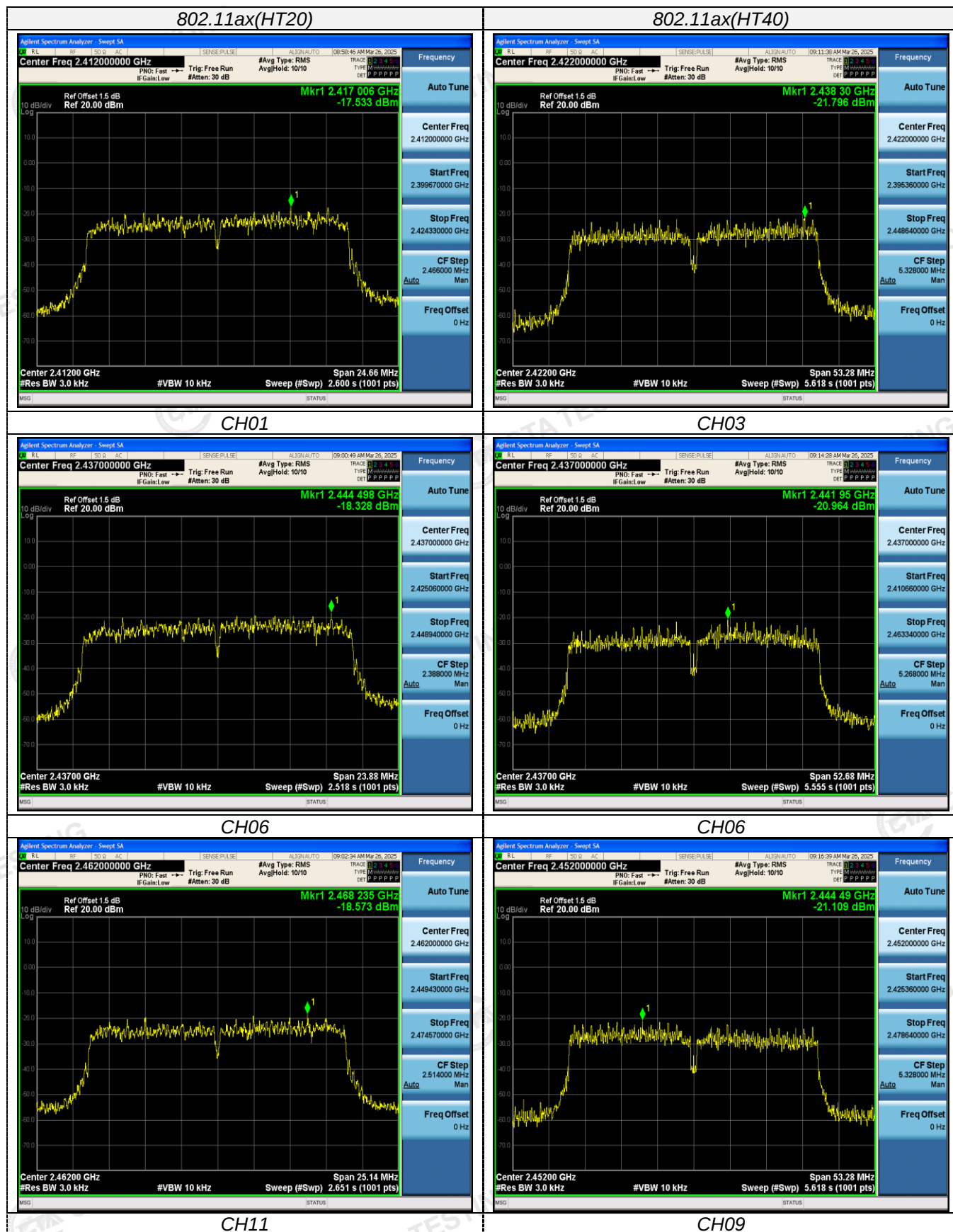


CH06



CH11

CH09



4.5 6dB Bandwidth

Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

Test Configuration



Test Results

Type	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11b	01	9.120	≥500	Pass
	06	9.000		
	11	9.320		
802.11g	01	15.720	≥500	Pass
	06	15.720		
	11	16.120		
802.11n(HT20)	01	16.080	≥500	Pass
	06	15.800		
	11	17.120		
802.11n(HT40)	03	35.520	≥500	Pass
	06	35.120		
	09	35.200		
802.11ax(HT20)	01	16.440	≥500	Pass
	06	15.920		
	11	16.760		
802.11ax(HT40)	03	35.520	≥500	Pass
	06	35.120		
	09	35.520		

Note:

- 1) Measured peak power spectrum density at difference data rate for each mode and recorded worst case for each mode.
- 2) Test results including cable loss;
- 3) Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; MCS0 at IEEE 802.11n/ax HT20; MCS0 at IEEE 802.11n/ax HT40;

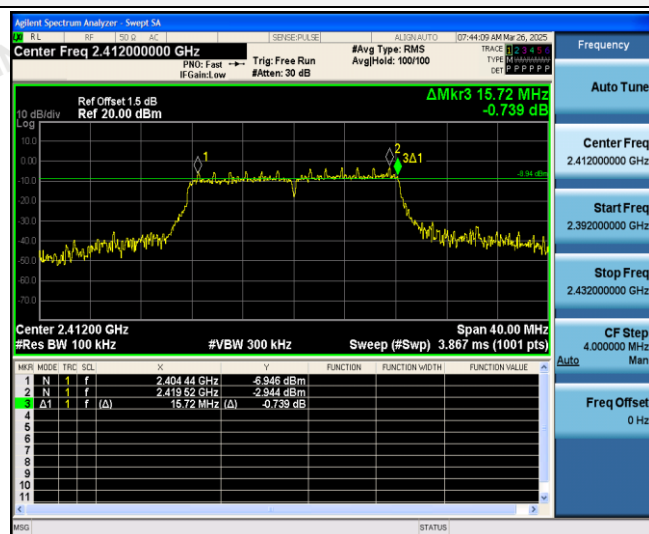
Please refer to following plots;

802.11b



CH01

802.11g



CH01



CH06



CH06



CH11



CH11