

TEST REPORT

Reference No...... : WTH26X04096743W001
FCC ID..... : 2ADXC-QAZWSRX
Applicant..... : Shenzhen Lenkeng Technology Co.,Ltd
Address..... : West 4F, Jinguangxia Culture&Tech Park, 3 Guangxia Road, Shenzhen ,
China
Manufacturer..... : The same as Applicant
Address..... : The same as Applicant
Product Name..... : 4k Wireless KVM Extender Set(Transmitter/Receiver)
Model No..... : BG-Air4Kast-MKX-RX
Standards..... : FCC Part 15.407
Date of Receipt sample..... : 2026-04-10
Date of Test..... : 2026-04-10 to 2026-04-23
Date of Issue..... : 2026-04-28
Test Report Form No...... : WTX_Part 15_407W
Test Result..... : **Pass**

Remarks:

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 approver.

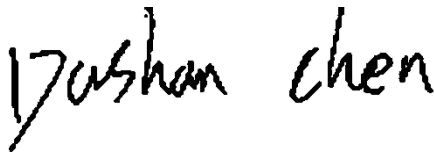
Prepared By:

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Report version

Version No.	Date of issue	Description
Rev.00	2026-04-28	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	4k Wireless KVM Extender Set(Transmitter/Receiver)
Trade Name:	/
Model No.:	BG-Air4Kast-MKX-RX
Adding Model(s):	/
Rated Voltage:	DC5V
Battery Capacity:	/
Power Adapter:	NBS12E050200UV Input:AC100-240 50/60Hz 0.3A Output:DC5V2.0A
<i>Note: The sample information is provided by the customer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11a, 802.11n-HT20, 802.11n-HT40, 802.11ac-VHT20, 802.11ac-VHT40, 802.11ac-VHT80
Frequency Range:	5180-5240MHz
Max. RF Output Power:	Antenna 1: 16.12dBm (Conducted) Antenna 2: 15.48dBm (Conducted)
Type of Modulation:	QPSK, 16QAM, 64QAM, 256QAM
Type of Antenna:	External Antenna
Antenna Gain:	5.93dBi
<i>Note: 1: The Antenna Gain is provided by the customer and can affect the validity of results.</i>	
<i>2: The data provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.407: General technical requirements.

ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

KDB789033 D02 v02r01: Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-Nii) Devices Part 15, Subparte.

KDB662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, KDB789033 D02 v02r01. The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Table for parameters of Test Software setting

Enter the fixed frequency using adb.exe, you can start to test. During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Mode	Test Frequency (MHz)											
	NCB: 20MHz											
	5180	5200	5240									
802.11a 6Mbps	14	14	14									
802.11n-HT20 MCS0	13	13	13									
802.11ac-VHT2 0MCS0	13	13	13									
Mode	NCB: 40MHz											
	5190	5230										
802.11n-HT40 MCS0	12	12										
802.11ac-VHT4	12	12										

0MCS0										
Mode	NCB: 80MHz									
	5210									
802.11ac-VHT8 0MCS0/Nss2	11									

1.5 EUT Operating during test

EUT was programmed to be in continuously transmitting mode. During the test, EUT operation to normal function and programs under Android were executed.

1.6 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C. (518101)

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) 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. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

1.7 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11a	5180MHz,5200MHz,5240MHz
TM2	802.11n-HT20/802.11ac-VHT20	5180MHz,5200MHz,5240MHz
TM3	802.11n-HT40/802.11ac-VHT40	5190MHz,5230MHz
TM4	802.11ac-VHT80	5210MHz
Note1 : All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report; Note 2: The 5GHz WIFI has two antennas and support Multiple Outputs for 802.11n/ac mode for this report; For 5150-5250MHz: Antenna 1 Gain is 5.93dBi; Antenna 2 Gain is 5.93dBi; According to KDB 662911, for same directional gain: For 5150-5250MHz: Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi = $5.93 + 10\log(2)$ dBi = 8.94dBi		

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	50~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
DC Cable	1.15	Unshielded	Without Ferrite
IR blaster extension cable	0.95	Unshielded	Without Ferrite
IR receiver extension cable	0.95	Unshielded	Without Ferrite
USB Cable	1.12	shielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
HDMI Cable	0.8	Unshielded	Without Ferrite

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook	ASUS	FA506IC	/
Displayer	Samsung	S32BG854NC	/
HDMI Wireless Extender	Lenkeng	BG-Air4Kast-MKX-TX	/

1.8 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.57\text{dB}$
Occupied Bandwidth	Conducted	$\pm 0.015\text{MHz}$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emission 1#	Conducted	@9kHz to 150kHz: $\pm 3.74\text{dB}$
		@150kHz to 30MHz: $\pm 3.34\text{dB}$
Conducted Emission 2#	Conducted	@9kHz to 150kHz: $\pm 3.74\text{dB}$
		@150kHz to 30MHz: $\pm 3.34\text{dB}$
Transmitter Spurious Emissions chamber A	Radiated	@9kHz to 30MHz: $\pm 3.0\text{dB}$
		@30MHz to 1GHz: $\pm 5.70\text{dB}$
		@1GHz to 6GHz: $\pm 5.88\text{dB}$
		@6GHz to 18GHz: $\pm 5.96\text{dB}$
		@18GHz to 40GHz: $\pm 6.12\text{dB}$
Transmitter Spurious Emissions chamber B	Radiated	@30MHz to 1GHz: $\pm 5.36\text{dB}$
Transmitter Spurious Emissions chamber C	Radiated	@9kHz to 30MHz: $\pm 3.0\text{dB}$
		@30MHz to 1GHz: $\pm 5.28\text{dB}$
		@1GHz to 6GHz: $\pm 5.56\text{dB}$
		@6GHz to 18GHz: $\pm 5.72\text{dB}$
		@18GHz to 40GHz: $\pm 6.12\text{dB}$

1.9 Test Equipment List and Details

Internal No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1002	Communication Tester	Rohde & Schwarz	CMW500	1201.0002 k50-14865 0-FB	2026-03-25	2027-03-24
WTXE1005A 1005	MXA Signal Analyzer	Agilent	N9020A	US471401 02	2026-03-25	2027-03-24
WTXE1084A 1001	MXA Signal Analyzer	KEYSIGHT	N9020A	MY543205 48	2026-02-06	2027-02-05
WTXE1005A 1006	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2026-02-06	2027-02-05
WTXW1105A 1136	RF ATTENUATOR	FEIYANG	N-JK	/	2026-02-06	2027-02-05
WTXE1003A 1-005	Coaxial Cable	/	0M4RFC	/	2026-02-23	2027-02-22
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2026-02-05	2027-02-04
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2026-02-05	2027-02-04
WTXE1007A 1002	Amplifier	HP	8447F	2805A034 75	2026-02-05	2027-02-04
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2026-02-05	2027-02-04
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2026-03-11	2029-03-10
WTXE1104A 1032-1	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1032-2	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1032-3	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2026-02-05	2027-02-04
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2026-02-05	2027-02-04
WTXE1065A 1001	Amplifier	C&D	PAP-1.0G18	14918	2026-02-05	2027-02-04
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2026-02-05	2027-02-04

WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2026-02-10	2027-02-09
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2026-02-05	2027-02-04
WTXE1104A 1033-1	Coaxial Cable	/	C16-07-07	/	2026-02-23	2027-02-22
WTXE1104A 1033-2	Coaxial Cable	/	C16-07-07	/	2026-02-23	2027-02-22
WTXE1104A 1033-3	Coaxial Cable	/	C16-07-07	/	2026-02-23	2027-02-22
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2026-02-05	2027-02-04
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2026-02-05	2027-02-04
WTXE1104A 1031-1	Coaxial Cable	/	1.5MRFC-LWB3	/	2026-02-23	2027-02-22
WTXE1104A 1031-2	Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22
WTXE1104A 1031-3	Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2026-02-05	2027-02-04
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2026-02-05	2027-02-04
WTXE1007A 1003	Amplifier	HP	8447F	2944A038 69	2026-02-05	2027-02-04
WTXE1104A 1034-1	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1034-2	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1034-3	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
☒ Chamber C: Above 1GHz						
WTXE1093A	EMI Test	Rohde &	ESIB 26	100401	2026-02-05	2027-02-04

1001	Receiver	Schwarz				
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2025-06-13	2027-06-12
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2026-02-05	2027-02-04
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2026-02-10	2027-02-09
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2026-02-05	2027-02-04
WTXE1104A 1035-1	Coaxial Cable	/	RC-18G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1035-2	Coaxial Cable	/	RC-18G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1035-3	Coaxial Cable	/	RC-18G-N-M	/	2026-02-23	2027-02-22
☐ Conducted Room 1#						
WTXE1104A 1029	EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2025-11-25	2026-11-24
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2026-02-05	2027-02-04
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2026-02-05	2027-02-04
WTXE1104A 1036	Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22
WTXE1104A 1038	Coaxial Cable	/	6MRFC-DP	/	2026-02-23	2027-02-22
☒ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2026-02-05	2027-02-04
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2026-02-05	2027-02-04
WTXE1104A 1037	Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22

Software List			
Description	Manufacturer	Model	Version
EMI Test Software/EZ-EMC (Radiated Emission A)	Farad	RA-03A1	1.1.4.2
EMI Test Software/EZ-EMC (Radiated Emission B)	Farad	RA-03A1	1.1.4.2
EMI Test Software/EZ-EMC (Radiated Emission C)	Farad	RA-03A1-2	1.1.4.2
EMI Test Software/EZ-EMC (Conducted Emission Room 1#)	Farad	3A1*CE-RE	1.1.4.3
EMI Test Software/EZ-EMC (Conducted Emission Room 2#)	Farad	3A1*CE-RE	1.1.4.3

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.405	Antenna Requirement	Compliant
15.407 (c)	Automatically Discontinue Transmission	Compliant
§15.207; §15.407(b)(6)	Conducted Emission	Compliant
§15.407(a)(1),(2)	Power Spectral Density	N/A
§15.407(e)	Emission Bandwidth and Occupied Bandwidth	N/A
§15.407(a)(1),(2)	Maximum Conducted Output Power	N/A
§15.407(b)(1),(2),(3),(4)	Undesirable emission	N/A
§15.205; §15.407(b)(1),(2),(3)	Radiated Emission	Compliant
§15.407(g)	Frequency Stability	N/A
§15.407(h)	Dynamic Frequency Selection (DFS)	N/A

Class II Permissive Change: Replace the casing and only derive one product.

Note: Report is for Class II Permissive Change only. Updated test data include Antenna Requirement, Automatically Discontinue Transmission, Conducted Emission and Radiated Emission. The test data refer to Original equipment (FCC ID: 2ADXC-QAZWSRXR), the original FCC ID issue date: 01/02/2025.

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

3.2 Evaluation Information

This product has two External antennas, fulfill the requirement of this section.

4. Automatically Discontinue Transmission

4.1 Standard Applicable

According to FCC Part 15.407(c), the device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

4.2 Summary of Test Results

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

5. Radiated Spurious Emissions

5.1 Standard Applicable

According to §15.407(b), undesirable emission limits. Except as shown in paragraph (b)(7) of this section, 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 5.15-5.25GHz band: All emissions outside of the 5.15-5.35GHz band shall not exceed an e.i.r.p. of -27dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35GHz band: All emissions outside of the 5.15-5.35GHz band shall not exceed an e.i.r.p. of -27dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725GHz band: All emissions outside of the 5.47-5.725GHz band shall not exceed an e.i.r.p. of -27dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85GHz band:
 - (i) All emissions shall be limited to a level of -27dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10dBm/MHz at 25MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6dBm/MHz at 5MHz above or below the band edge, and from 5MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

According to §15.407(b)(6), Unwanted emissions below 1GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

According to §15.407(b)(7), The provisions of §15.205 apply to intentional radiators operating under this section.

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If radiated measurements are performed, field strength is then converted to EIRP as follows:

$$\text{EIRP} = ((E \cdot d)^2) / 30$$

where:

- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

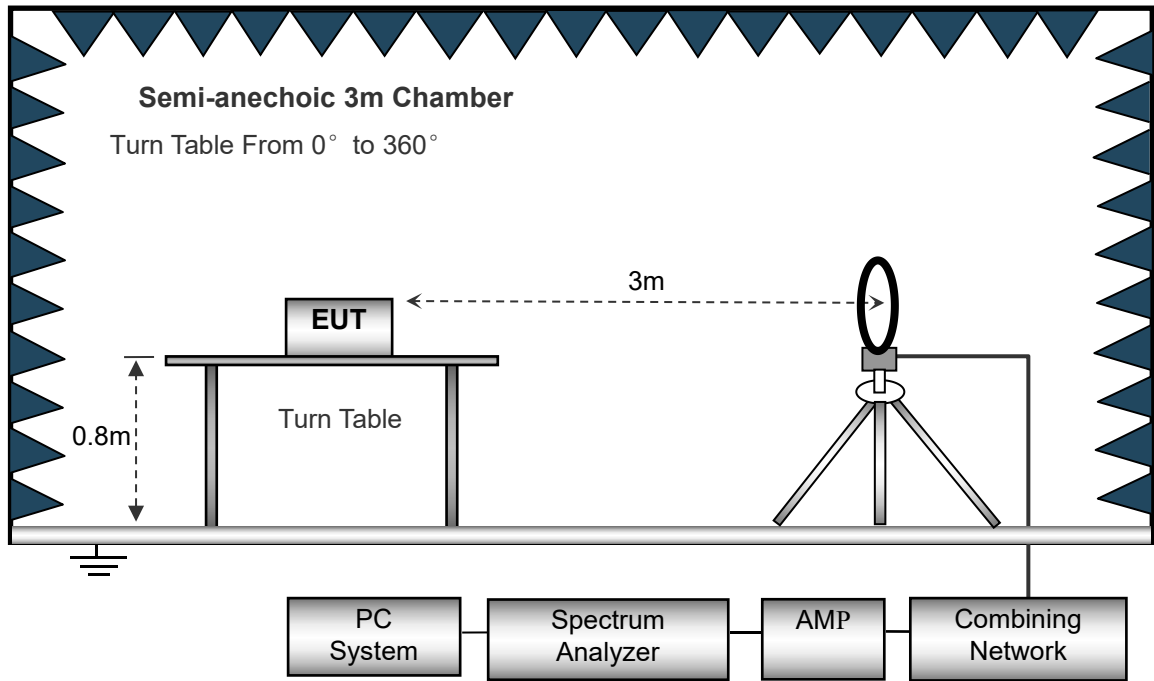
5.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

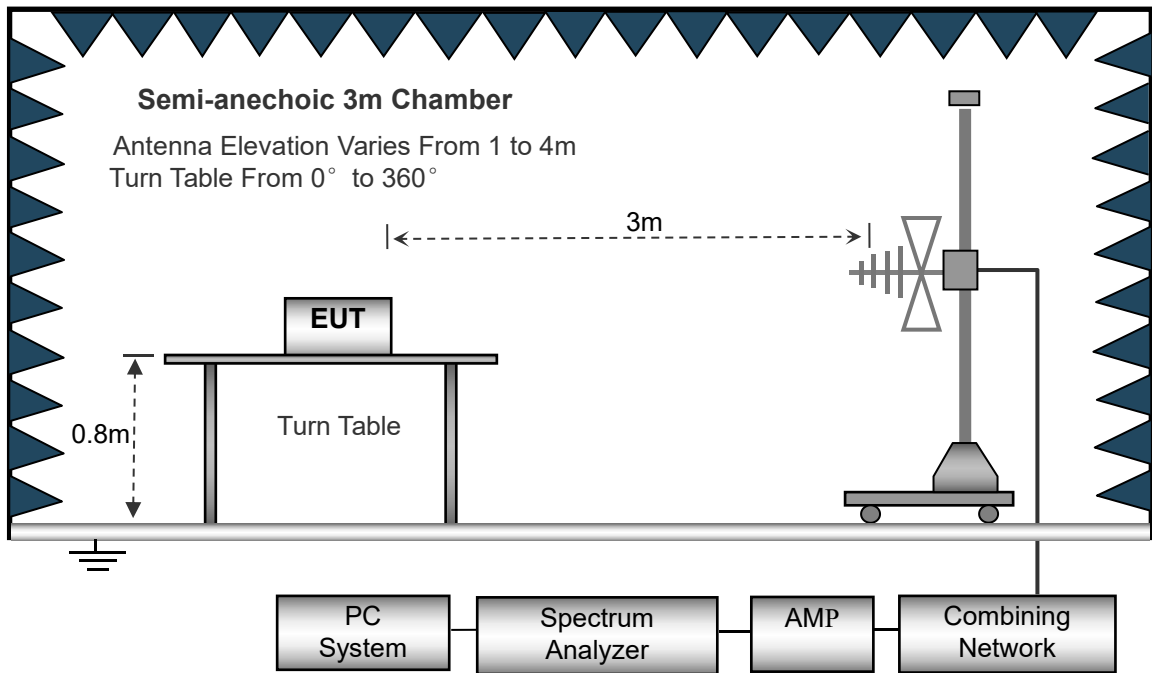
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

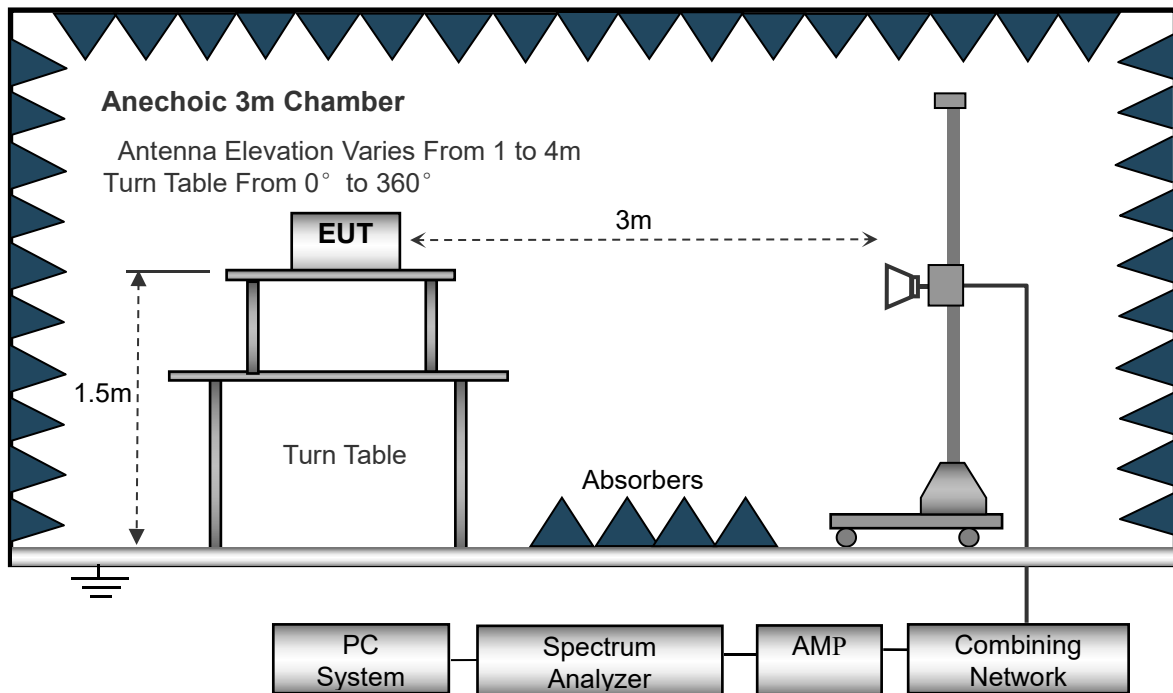
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1GHz.



5.3 Test Receiver Setup

During the radiated emission test for above 1GHz, the test receiver was set with the following configurations:

For peak detector:

RBW = 1000kHz, VBW = 3000kHz, Sweep Time = Auto

For average detector:

RBW = 1000kHz, VBW = 10Hz, Sweep Time = Auto

5.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

5.5 Summary of Test Results/Plots

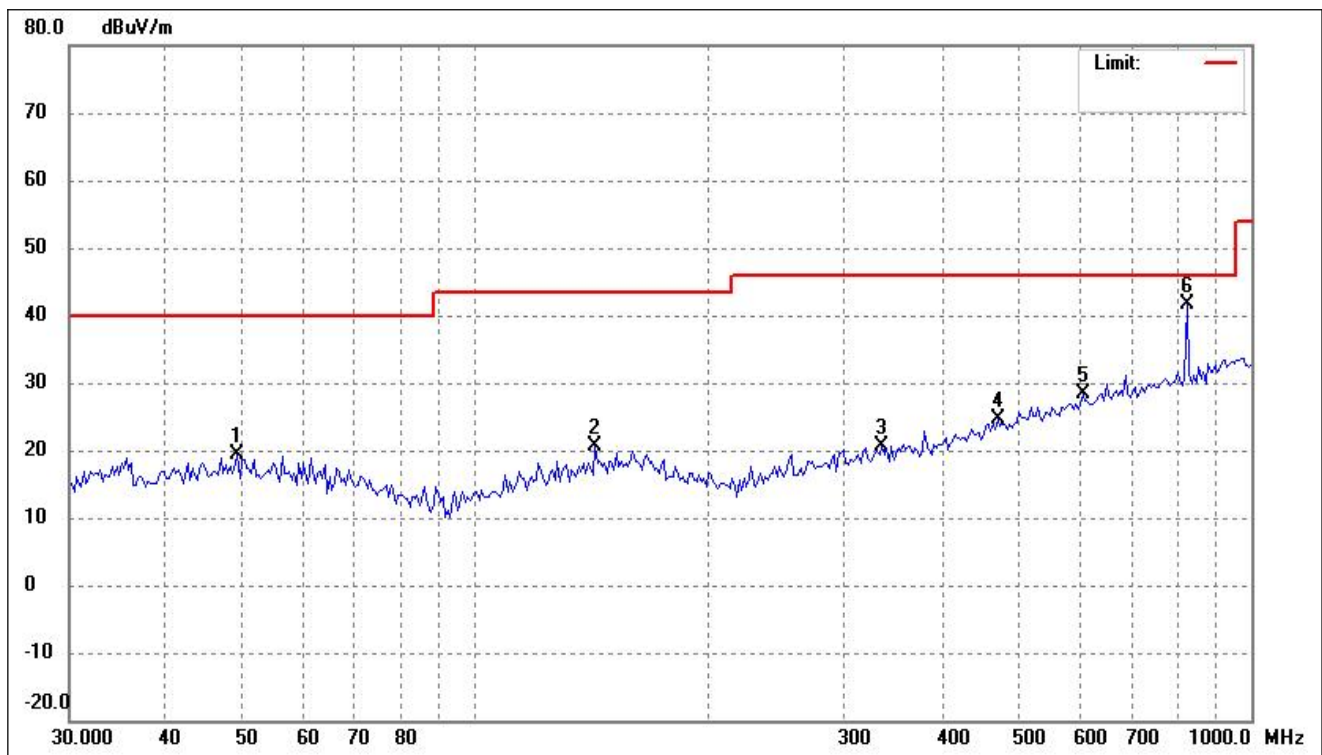
Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

➤ Spurious Emission From 30MHz to 1GHz

➤ Antenna 1(worst case)

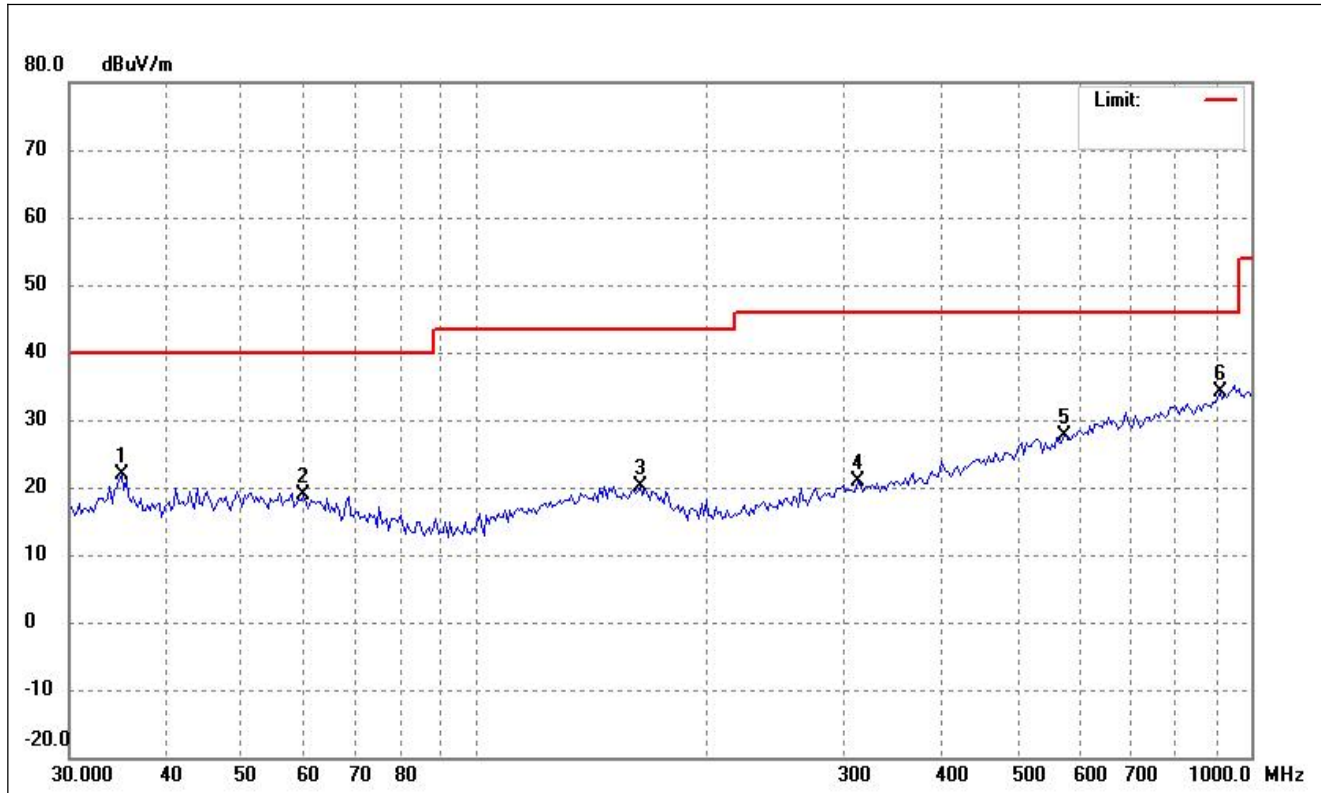
➤ 5150-5250MHz

802.11a			
Test Channel	5180MHz(worst case)	Polarity:	Horizontal



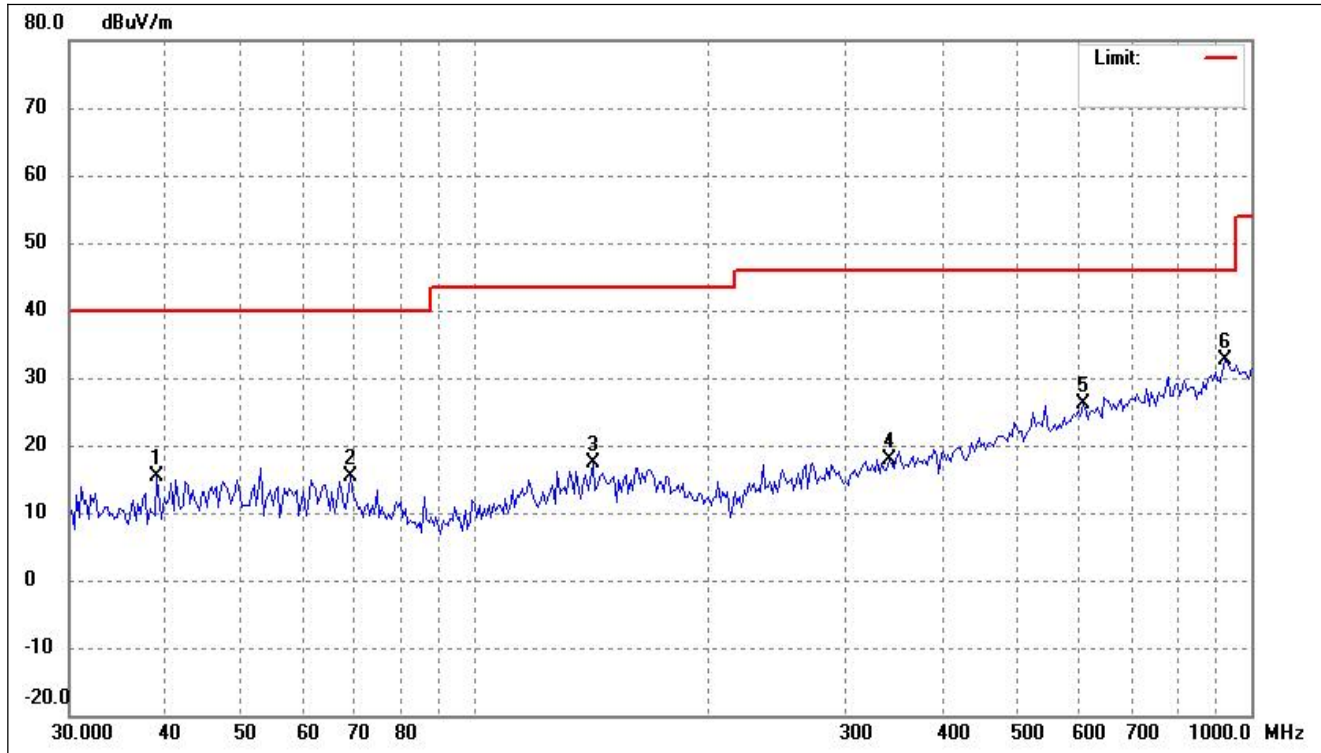
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	49.4086	27.57	-8.29	19.28	40.00	-20.72	-	-	peak
2	142.7691	29.47	-8.79	20.68	43.50	-22.82	-	-	peak
3	334.1255	28.06	-7.51	20.55	46.00	-25.45	-	-	peak
4	471.4665	28.87	-4.34	24.53	46.00	-21.47	-	-	peak
5	607.1805	29.23	-0.87	28.36	46.00	-17.64	-	-	peak
6	827.1794	39.92	1.67	41.59	46.00	-4.41	-	-	peak

802.11a			
Test Channel	5180MHz(Worst case)	Polarity:	Vertical



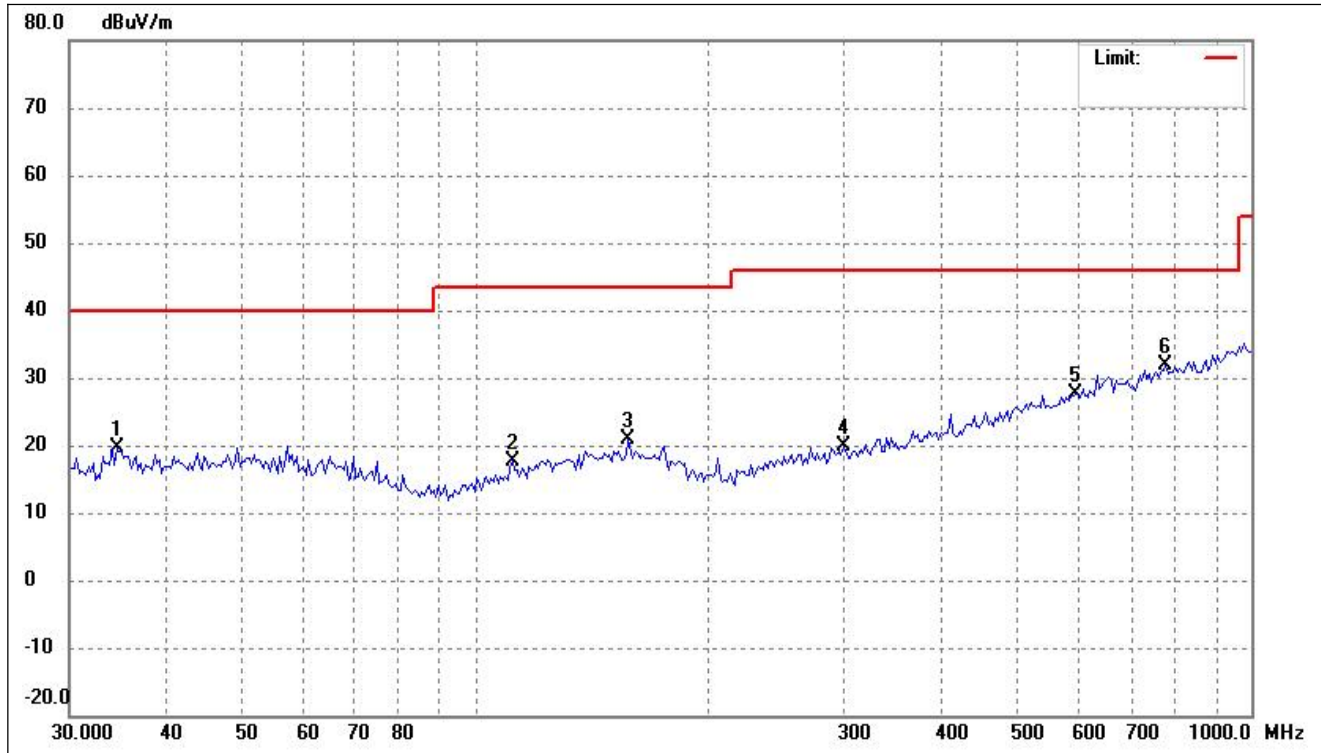
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.0156	31.31	-9.53	21.78	40.00	-18.22	-	-	peak
2	60.1527	27.76	-8.89	18.87	40.00	-21.13	-	-	peak
3	163.1622	28.54	-8.37	20.17	43.50	-23.33	-	-	peak
4	311.4519	28.83	-8.00	20.83	46.00	-25.17	-	-	peak
5	573.9882	29.38	-1.79	27.59	46.00	-18.41	-	-	peak
6	912.6952	31.27	2.88	34.15	46.00	-11.85	-	-	peak

802.11n-HT20			
Test Channel	5180MHz(worst case)	Polarity:	Horizontal



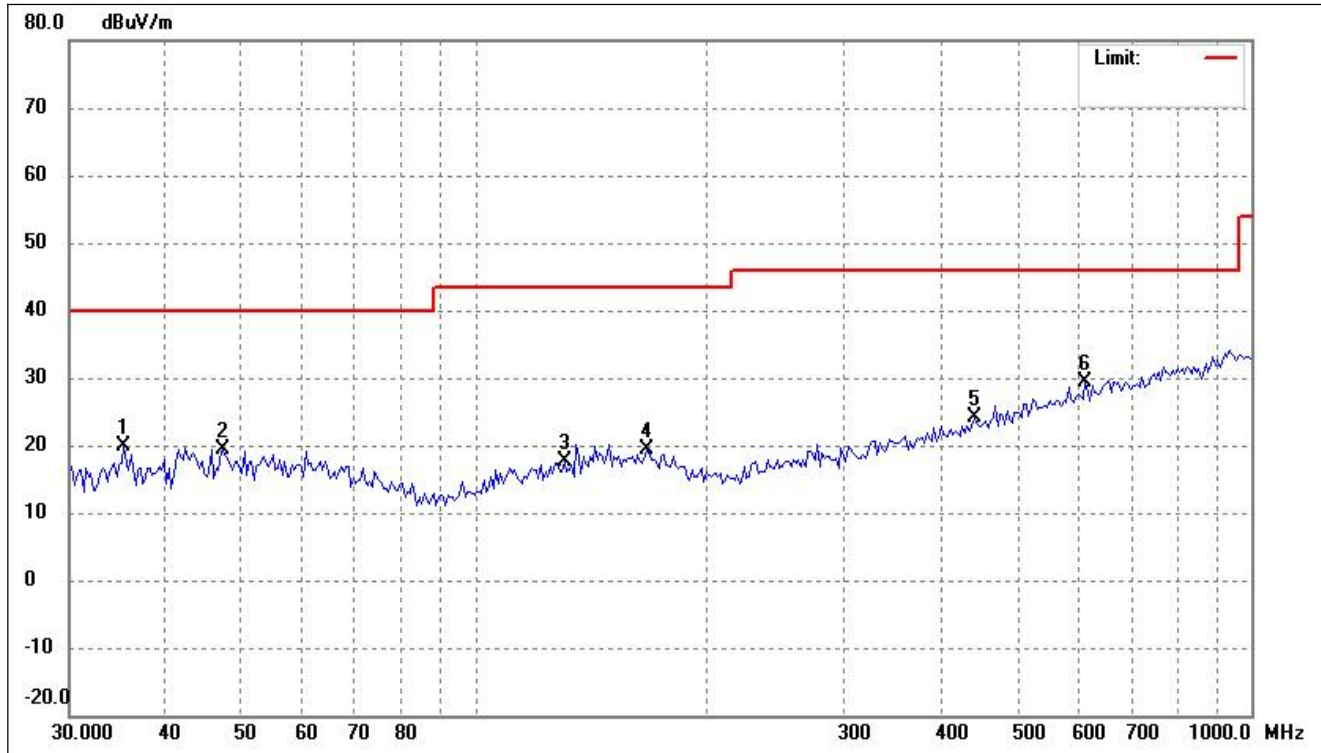
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	38.9081	24.27	-8.99	15.28	40.00	-24.72	-	-	peak
2	69.2297	25.79	-10.30	15.49	40.00	-24.51	-	-	peak
3	141.7694	26.18	-8.84	17.34	43.50	-26.16	-	-	peak
4	341.2441	25.49	-7.50	17.99	46.00	-28.01	-	-	peak
5	607.1805	27.02	-0.87	26.15	46.00	-19.85	-	-	peak
6	925.6131	29.53	3.12	32.65	46.00	-13.35	-	-	peak

802.11n-HT20			
Test Channel	5180MHz(worst case)	Polarity:	Vertical



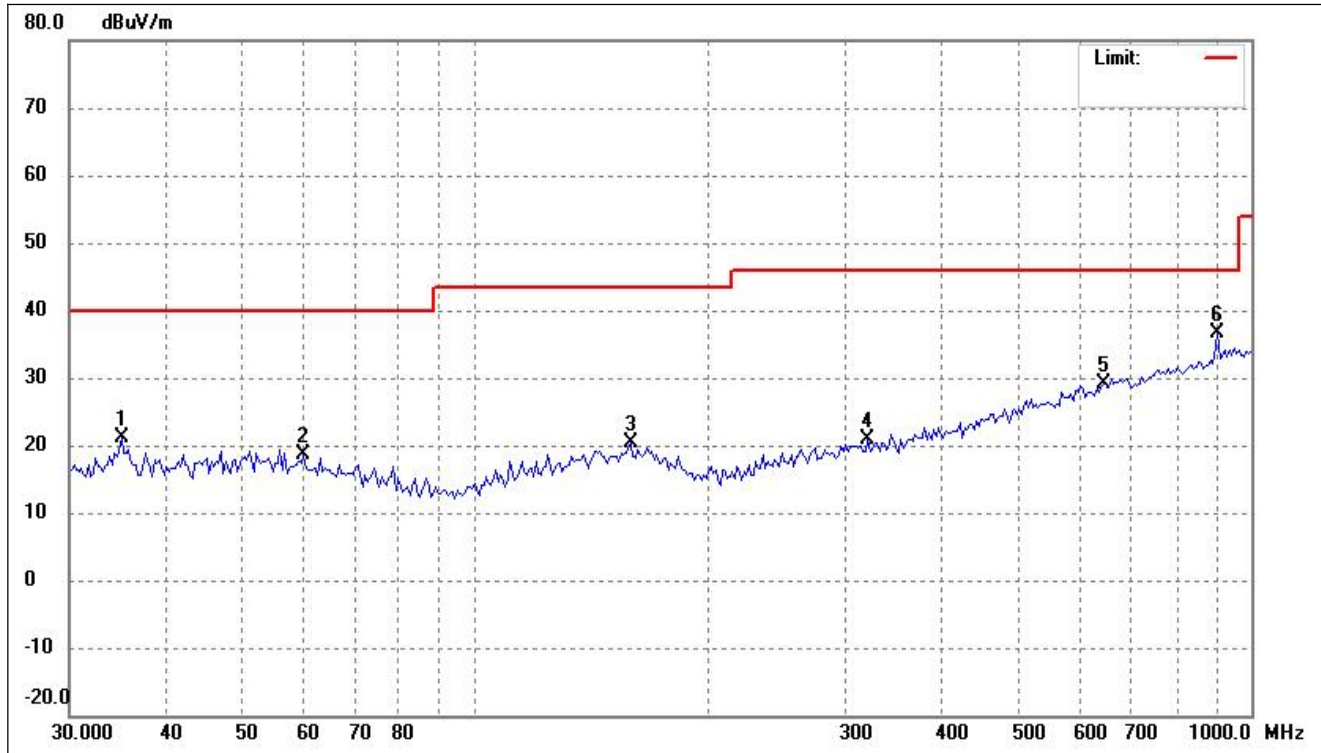
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	34.5269	29.27	-9.57	19.70	40.00	-20.30	-	-	peak
2	111.6398	28.75	-11.13	17.62	43.50	-25.88	-	-	peak
3	157.5289	29.16	-8.31	20.85	43.50	-22.65	-	-	peak
4	298.5930	28.19	-8.32	19.87	46.00	-26.13	-	-	peak
5	594.5142	28.75	-1.04	27.71	46.00	-18.29	-	-	peak
6	776.4848	30.49	1.45	31.94	46.00	-14.06	-	-	peak

802.11ac-VHT20			
Test Channel	5180MHz(worst case)	Polarity:	Horizontal



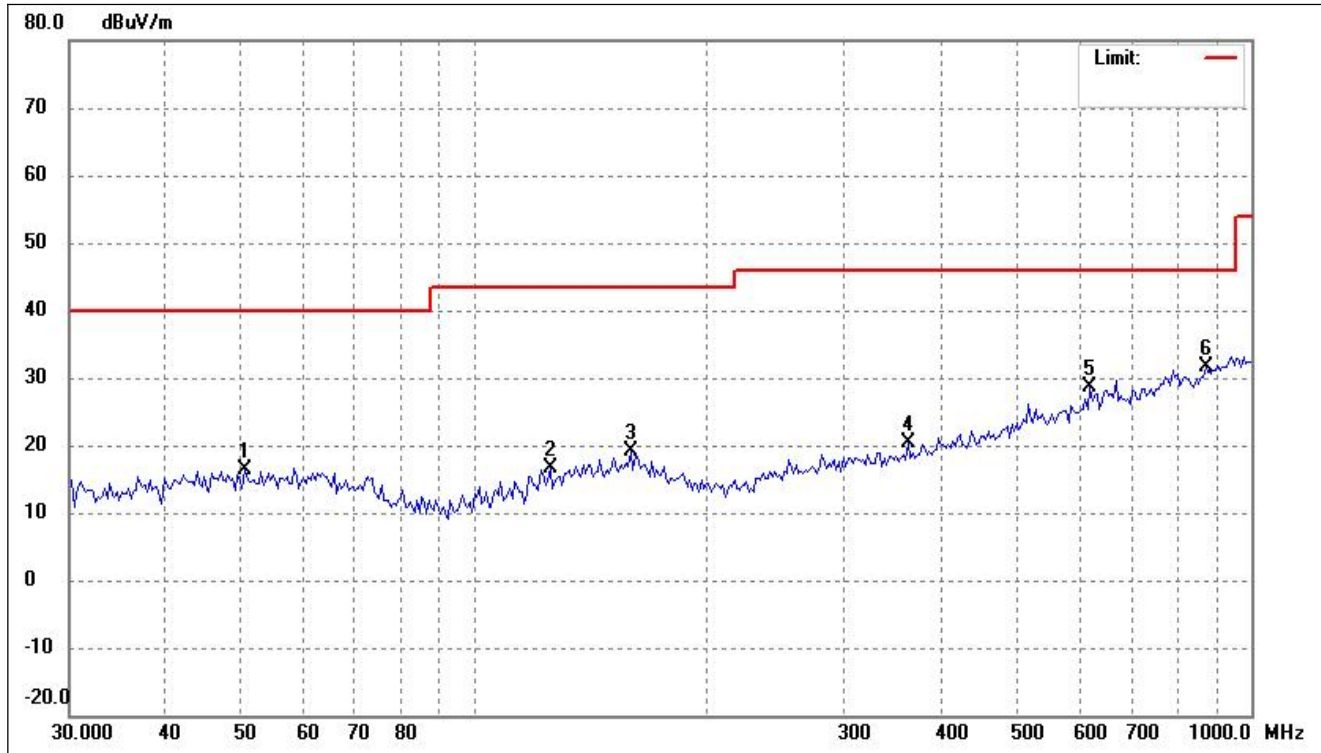
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.2625	29.48	-9.49	19.99	40.00	-20.01	-	-	peak
2	47.3687	27.60	-8.31	19.29	40.00	-20.71	-	-	peak
3	130.3047	27.13	-9.58	17.55	43.50	-25.95	-	-	peak
4	166.6385	27.96	-8.57	19.39	43.50	-24.11	-	-	peak
5	439.4730	29.25	-5.09	24.16	46.00	-21.84	-	-	peak
6	611.4623	30.25	-0.89	29.36	46.00	-16.64	-	-	peak

802.11ac-VHT20			
Test Channel	5180MHz(worst case)	Polarity:	Vertical



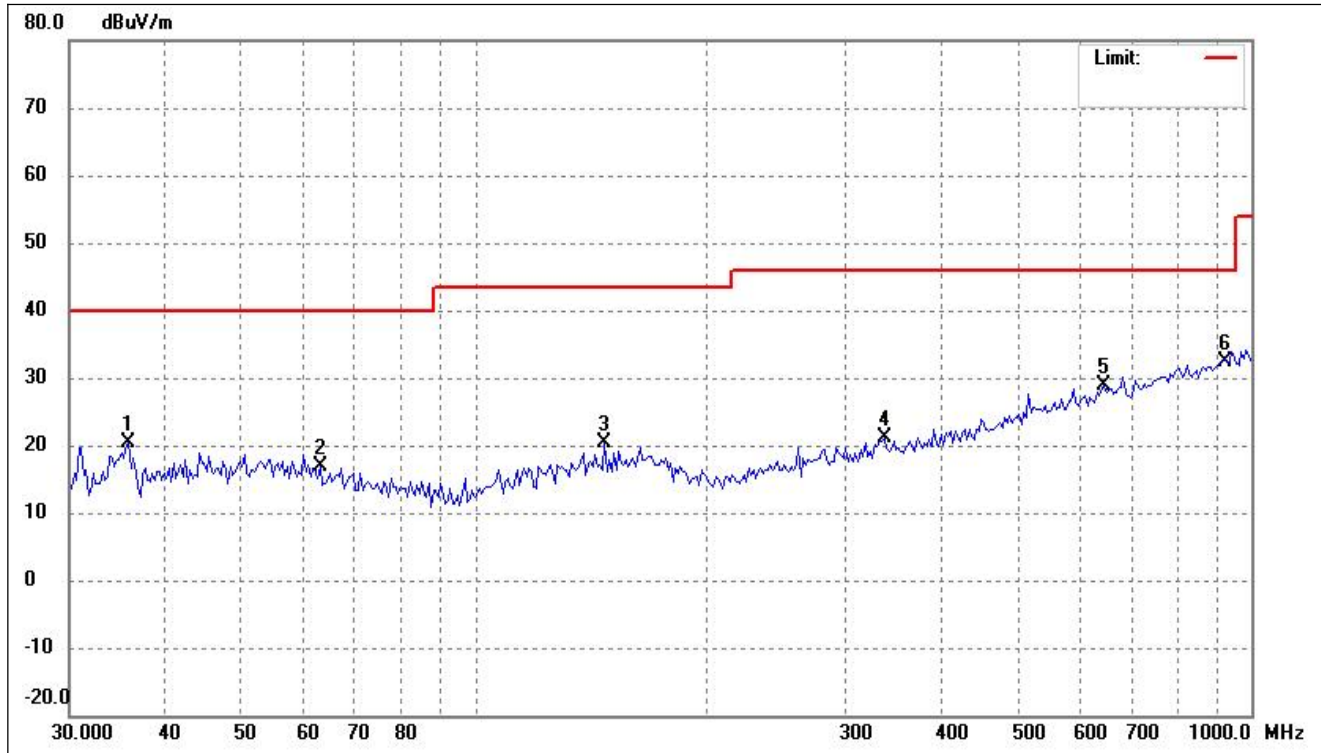
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.0156	30.65	-9.53	21.12	40.00	-18.88	-	-	peak
2	60.1527	27.58	-8.89	18.69	40.00	-21.31	-	-	peak
3	158.6397	28.57	-8.30	20.27	43.50	-23.23	-	-	peak
4	320.3306	28.73	-7.78	20.95	46.00	-25.05	-	-	peak
5	646.8217	29.51	-0.26	29.25	46.00	-16.75	-	-	peak
6	906.3040	33.79	2.74	36.53	46.00	-9.47	-	-	peak

802.11n-HT40			
Test Channel	5190MHz(worst case)	Polarity:	Horizontal



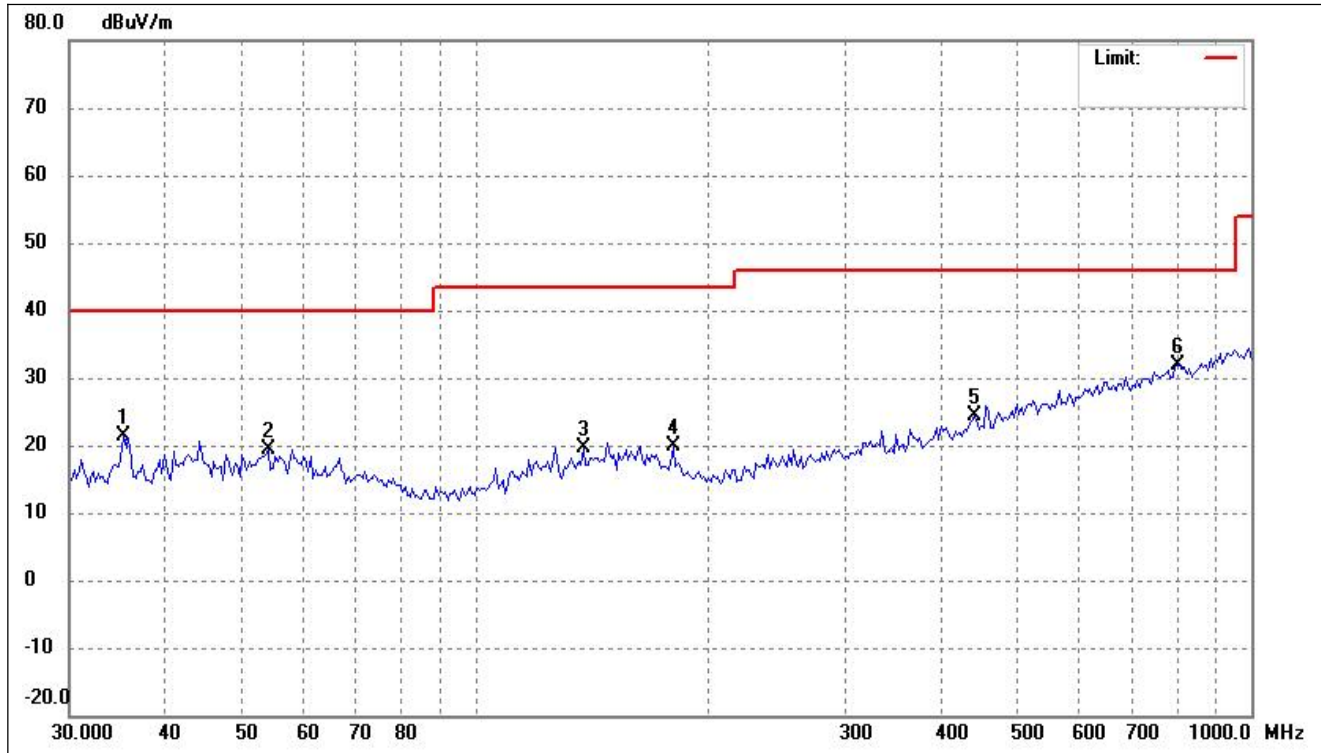
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	50.4613	24.72	-8.28	16.44	40.00	-23.56	-	-	peak
2	124.9249	26.50	-9.97	16.53	43.50	-26.97	-	-	peak
3	158.6397	27.38	-8.30	19.08	43.50	-24.42	-	-	peak
4	360.9774	27.49	-7.16	20.33	46.00	-25.67	-	-	peak
5	620.1167	29.49	-0.92	28.57	46.00	-17.43	-	-	peak
6	875.0132	29.59	2.13	31.72	46.00	-14.28	-	-	peak

802.11n-HT40			
Test Channel	5190MHz(worst case)	Polarity:	Vertical



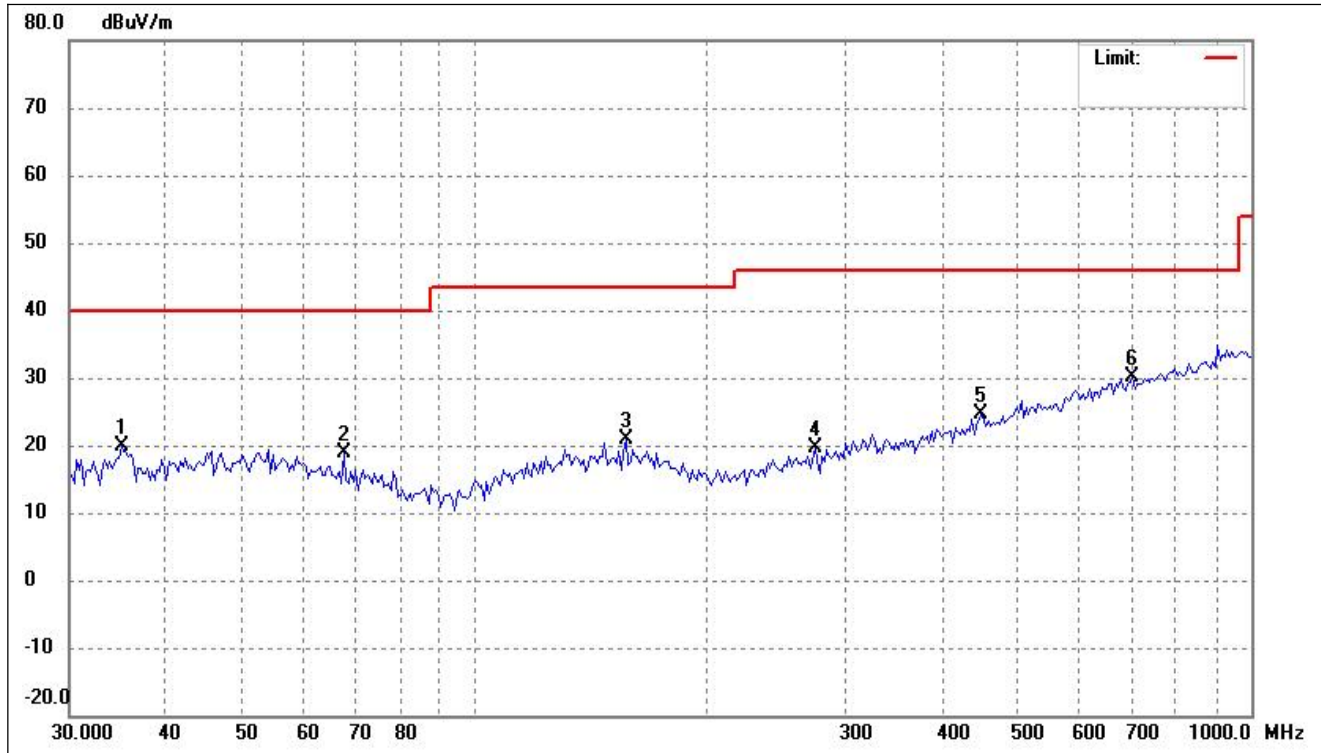
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.7616	29.76	-9.42	20.34	40.00	-19.66	-	-	peak
2	63.1856	26.12	-9.28	16.84	40.00	-23.16	-	-	peak
3	146.8391	29.06	-8.68	20.38	43.50	-23.12	-	-	peak
4	336.4817	28.72	-7.52	21.20	46.00	-24.80	-	-	peak
5	646.8217	29.04	-0.26	28.78	46.00	-17.22	-	-	peak
6	919.1315	29.48	2.99	32.47	46.00	-13.53	-	-	peak

802.11ac-VHT40			
Test Channel	5190MHz(worst case)	Polarity:	Horizontal



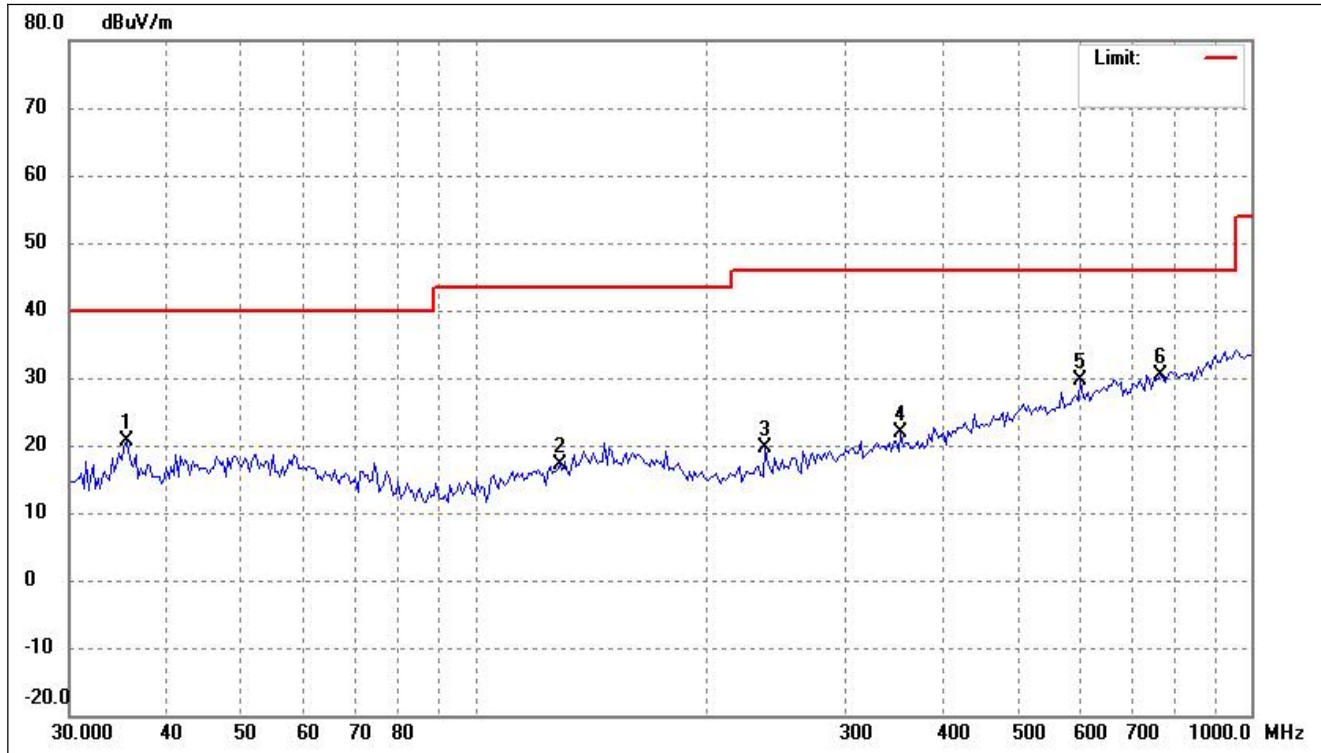
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.2625	30.94	-9.49	21.45	40.00	-18.55	-	-	peak
2	54.1349	27.77	-8.44	19.33	40.00	-20.67	-	-	peak
3	137.8398	28.68	-9.08	19.60	43.50	-23.90	-	-	peak
4	180.0304	29.73	-9.82	19.91	43.50	-23.59	-	-	peak
5	439.4730	29.44	-5.09	24.35	46.00	-21.65	-	-	peak
6	804.2522	30.17	1.72	31.89	46.00	-14.11	-	-	peak

802.11ac-VHT40			
Test Channel	5190MHz(worst case)	Polarity:	Vertical



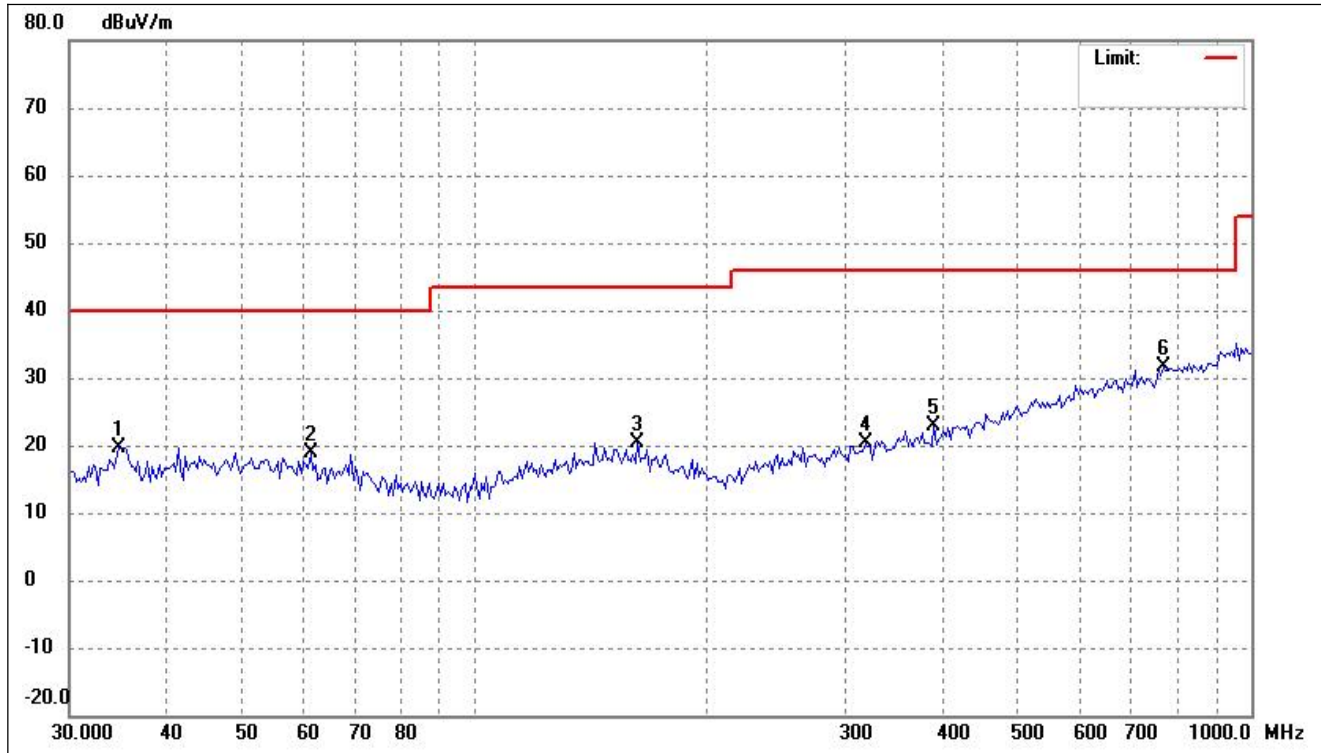
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.0156	29.33	-9.53	19.80	40.00	-20.20	-	-	peak
2	67.7854	28.88	-10.01	18.87	40.00	-21.13	-	-	peak
3	156.4258	29.07	-8.31	20.76	43.50	-22.74	-	-	peak
4	274.4463	28.56	-9.02	19.54	46.00	-26.46	-	-	peak
5	448.8361	29.29	-4.70	24.59	46.00	-21.41	-	-	peak
6	703.7314	29.78	0.27	30.05	46.00	-15.95	-	-	peak

802.11ac-VHT80			
Test Channel	5210MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.5112	29.99	-9.46	20.53	40.00	-19.47	-	-	peak
2	128.4861	26.89	-9.65	17.24	43.50	-26.26	-	-	peak
3	236.7927	30.08	-10.54	19.54	46.00	-26.46	-	-	peak
4	353.4471	29.09	-7.32	21.77	46.00	-24.23	-	-	peak
5	602.9287	30.58	-0.84	29.74	46.00	-16.26	-	-	peak
6	765.6482	29.08	1.31	30.39	46.00	-15.61	-	-	peak

802.11ac-VHT80			
Test Channel	5210MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	34.7704	29.18	-9.56	19.62	40.00	-20.38	-	-	peak
2	61.4343	27.94	-9.05	18.89	40.00	-21.11	-	-	peak
3	162.0197	28.74	-8.31	20.43	43.50	-23.07	-	-	peak
4	318.0875	28.26	-7.81	20.45	46.00	-25.55	-	-	peak
5	389.9874	29.28	-6.50	22.78	46.00	-23.22	-	-	peak
6	771.0475	30.24	1.37	31.61	46.00	-14.39	-	-	peak

Remark: '-' Means the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

- Antenna 1(worst case)
- For the frequency band 5.15-5.25GHz (802.11a)
- Harmonics And Spurious Emissions

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel (5180MHz)							
10360	58.79	7.11	65.90	74	-8.10	H	PK
10360	40.99	7.11	48.10	54	-5.90	H	AV
10360	58.65	7.11	65.76	74	-8.24	V	PK
10360	41.95	7.11	49.06	54	-4.94	V	AV
Middle Channel (5200MHz)							
10400	57.29	7.22	64.51	74	-9.49	H	PK
10400	39.57	7.22	46.79	54	-7.21	H	AV
10400	55.19	7.22	62.41	74	-11.59	V	PK
10400	40.42	7.22	47.64	54	-6.36	V	AV
High Channel (5240MHz)							
10480	57.50	7.69	65.19	74	-8.81	H	PK
10480	39.40	7.69	47.09	54	-6.91	H	AV
10480	55.64	7.69	63.33	74	-10.67	V	PK
10480	38.05	7.69	45.74	54	-8.26	V	AV

- Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-42.14	-27
Highest	Above 5350	-43.58	-27

Note: the data just list the worst cases

- For the frequency band 5.15-5.25GHz (802.11n HT20)
- Harmonics And Spurious Emissions

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel (5180MHz)							
10360	58.76	7.11	65.87	74	-8.13	H	PK
10360	38.23	7.11	45.34	54	-8.66	H	AV
10360	55.27	7.11	62.38	74	-11.62	V	PK
10360	39.55	7.11	46.66	54	-7.34	V	AV
Middle Channel (5200MHz)							
10400	57.90	7.22	65.12	74	-8.88	H	PK
10400	41.13	7.22	48.35	54	-5.65	H	AV
10400	56.90	7.22	64.12	74	-9.88	V	PK
10400	38.18	7.22	45.40	54	-8.60	V	AV
High Channel (5240MHz)							
10480	58.52	7.69	66.21	74	-7.79	H	PK
10480	41.83	7.69	49.52	54	-4.48	H	AV
10480	56.69	7.69	64.38	74	-9.62	V	PK
10480	38.16	7.69	45.85	54	-8.15	V	AV

- Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-38.62	-27
Highest	Above 5350	-39.16	-27

Note: the data just list the worst cases

- For the frequency band 5.15-5.25GHz (802.11ac VHT20)
- Harmonics And Spurious Emissions

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel (5180MHz)							
10360	57.90	7.11	65.01	74	-8.99	H	PK
10360	40.26	7.11	47.37	54	-6.63	H	AV
10360	58.96	7.11	66.07	74	-7.93	V	PK
10360	39.81	7.11	46.92	54	-7.08	V	AV
Middle Channel (5200MHz)							
10400	58.52	7.22	65.74	74	-8.26	H	PK
10400	38.98	7.22	46.20	54	-7.80	H	AV
10400	56.04	7.22	63.26	74	-10.74	V	PK
10400	41.07	7.22	48.29	54	-5.71	V	AV
High Channel (5240MHz)							
10480	58.45	7.69	66.14	74	-7.86	H	PK
10480	40.64	7.69	48.33	54	-5.67	H	AV
10480	58.51	7.69	66.20	74	-7.80	V	PK
10480	39.10	7.69	46.79	54	-7.21	V	AV

- Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-38.14	-27
Highest	Above 5350	-39.56	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz (802.11n HT40)
- Harmonics And Spurious Emissions

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel (5190MHz)							
10380	56.65	7.89	64.54	74	-9.46	H	PK
10380	41.21	7.89	49.10	54	-4.90	H	AV
10380	57.60	7.89	65.49	74	-8.51	V	PK
10380	40.15	7.89	48.04	54	-5.96	V	AV
High Channel (5230MHz)							
10460	58.96	7.97	66.93	74	-7.07	H	PK
10460	39.98	7.97	47.95	54	-6.05	H	AV
10460	55.86	7.97	63.83	74	-10.17	V	PK
10460	38.86	7.97	46.83	54	-7.17	V	AV

- Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-38.76	-27
Highest	Above 5350	-37.38	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz (802.11ac VHT40)
- Harmonics And Spurious Emissions

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel (5190MHz)							
10380	57.47	7.89	65.36	74	-8.64	H	PK
10380	41.95	7.89	49.84	54	-4.16	H	AV
10380	58.50	7.89	66.39	74	-7.61	V	PK
10380	38.80	7.89	46.69	54	-7.31	V	AV
High Channel (5230MHz)							
10460	55.67	7.97	63.64	74	-10.36	H	PK
10460	39.89	7.97	47.86	54	-6.14	H	AV
10460	55.79	7.97	63.76	74	-10.24	V	PK
10460	38.49	7.97	46.46	54	-7.54	V	AV

- Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-38.76	-27
Highest	Above 5350	-37.34	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz (802.11ac VHT80)
- Harmonics And Spurious Emissions

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
5210MHz							
10420	57.60	7.53	65.13	74	-8.87	H	PK
10420	41.02	7.53	48.55	54	-5.45	H	AV
10420	56.86	7.53	64.39	74	-9.61	H	PK
10420	39.51	7.53	47.04	54	-6.96	H	AV

- Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-37.42	-27
Highest	Above 5350	-36.86	-27
Note: the data just list the worst cases			

Note: Testing is carried out with frequency rang 9kHz to 40GHz, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

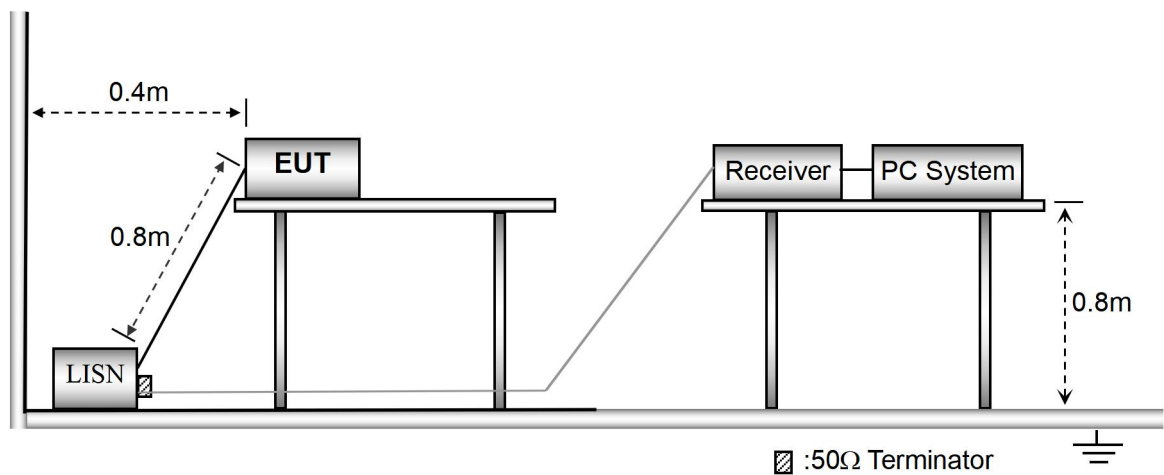
6. Conducted Emissions

6.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

6.2 Basic Test Setup Block Diagram



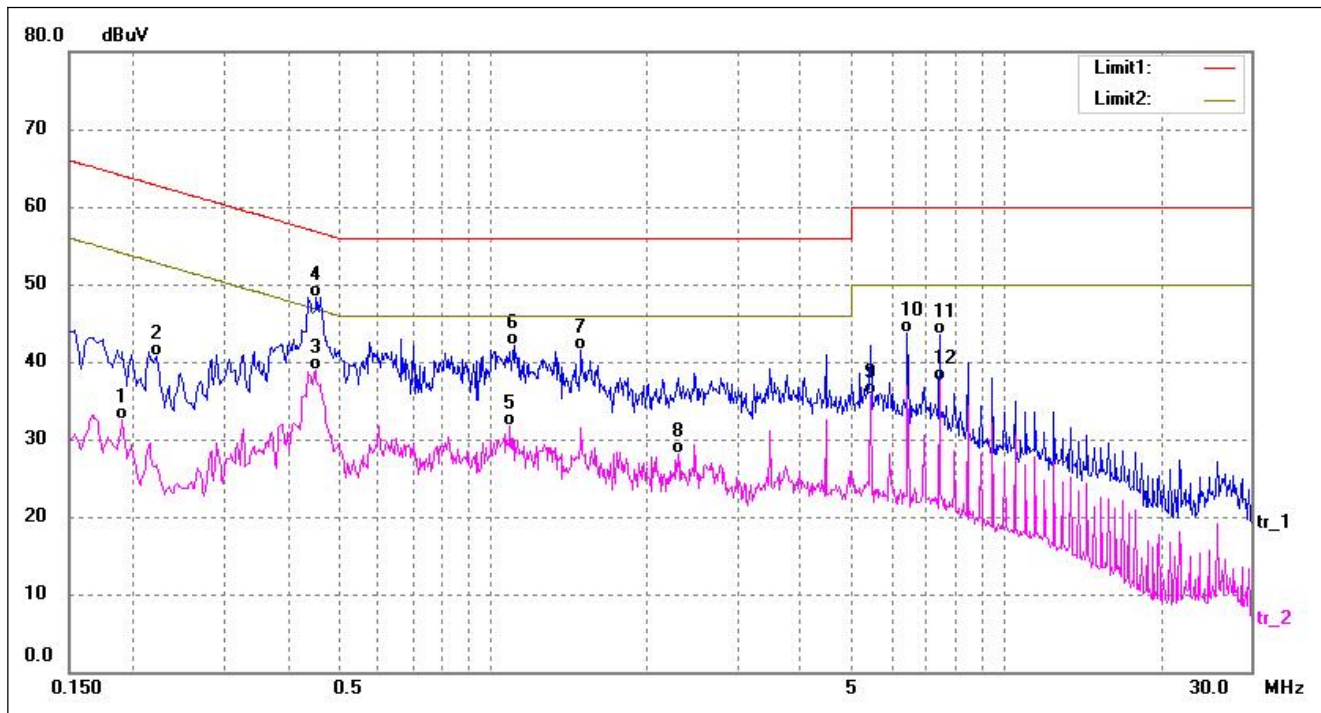
6.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency.....	150kHz
Stop Frequency.....	30MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10kHz
Quasi-Peak Adapter Bandwidth.....	9kHz
Quasi-Peak Adapter Mode.....	Normal

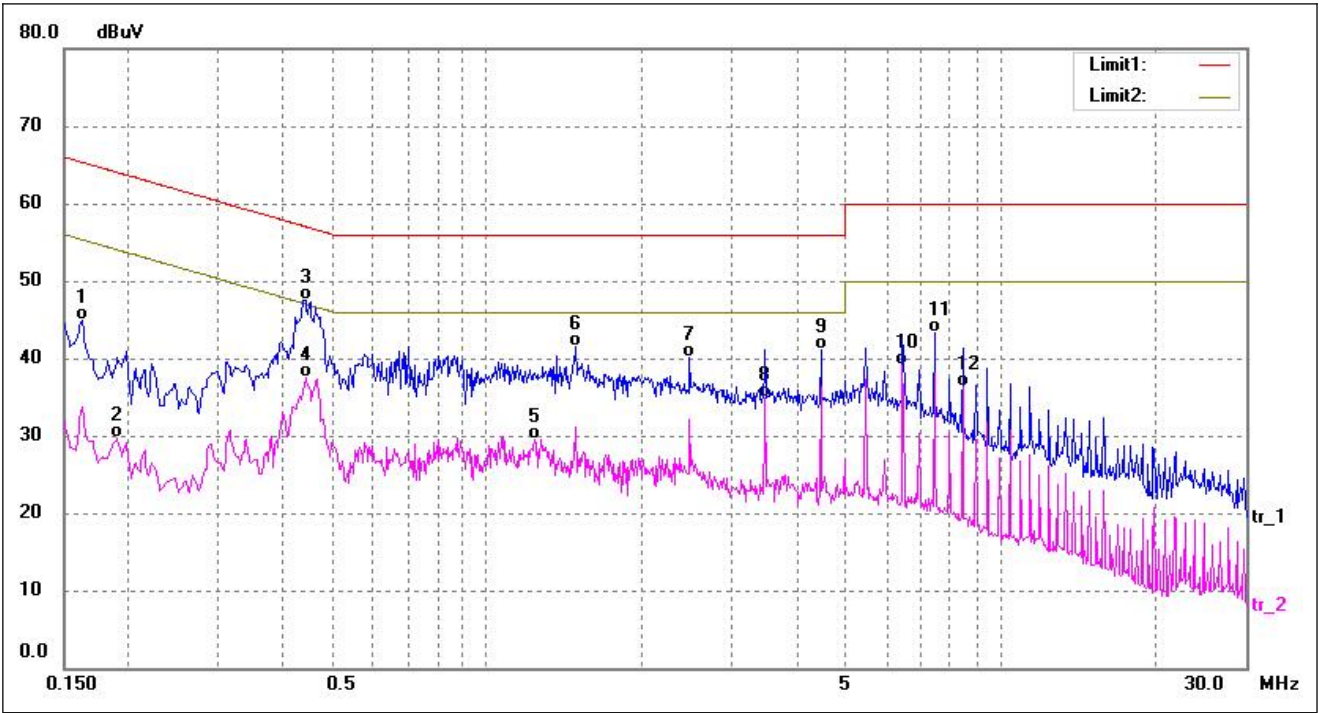
6.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1900	22.84	9.59	32.43	54.03	-21.60	AVG
2	0.2220	31.15	9.63	40.78	62.74	-21.96	QP
3*	0.4500	29.18	9.64	38.82	46.87	-8.05	AVG
4	0.4620	38.72	9.65	48.37	56.66	-8.29	QP
5	1.0860	21.88	9.73	31.61	46.00	-14.39	AVG
6	1.1100	32.37	9.72	42.09	56.00	-13.91	QP
7	1.4899	32.03	9.56	41.59	56.00	-14.41	QP
8	2.3060	18.82	9.38	28.20	46.00	-17.80	AVG
9	5.4580	26.00	9.62	35.62	50.00	-14.38	AVG
10	6.4500	33.89	9.72	43.61	60.00	-16.39	QP
11	7.4420	33.74	9.79	43.53	60.00	-16.47	QP
12	7.4420	27.77	9.79	37.56	50.00	-12.44	AVG

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1620	35.42	9.48	44.90	65.36	-20.46	QP
2	0.1900	20.07	9.59	29.66	54.03	-24.37	AVG
3	0.4380	37.95	9.64	47.59	57.10	-9.51	QP
4*	0.4420	27.89	9.64	37.53	47.02	-9.49	AVG
5	1.2419	19.91	9.66	29.57	46.00	-16.43	AVG
6	1.4899	31.88	9.56	41.44	56.00	-14.56	QP
7	2.4820	30.75	9.38	40.13	56.00	-15.87	QP
8	3.4740	25.42	9.42	34.84	46.00	-11.16	AVG
9	4.4660	31.66	9.51	41.17	56.00	-14.83	QP
10	6.4500	29.48	9.72	39.20	50.00	-10.80	AVG
11	7.4420	33.55	9.79	43.34	60.00	-16.66	QP
12	8.4337	26.56	9.80	36.36	50.00	-13.64	AVG

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

***** END OF REPORT *****