

TEST REPORT

Reference No...... : WTH24X11267266W001
FCC ID..... : 2ADXC-QAZWSRX
Applicant..... : Shenzhen Lenkeng Technology Co.,Ltd
Address..... : West 4F,Jingguangxia Culture&Tech Park, 3 Guangxia Road, Shenzhen ,
China
Manufacturer..... : The same as Applicant
Address..... : The same as Applicant
Product Name..... : HDMI Wireless Extender
Model No..... : LKV699KVM-V2.0-RX
Standards..... : FCC Part 15.407
Date of Receipt sample..... : 2024-11-15
Date of Test..... : 2024-11-15 to 2024-12-09
Date of Issue..... : 2024-12-09
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.

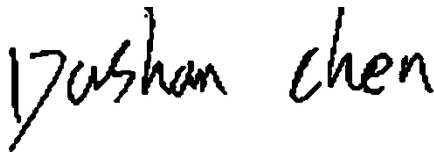
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Report version

Version No.	Date of issue	Description
Rev.00	2024-12-09	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	HDMI Wireless Extender
Trade Name:	LENKENG
Model No.:	LKV699KVM-V2.0-RX
Adding Model(s):	LKV699-V2.0-RX, LKV677-V2.0-RX, LKV677KVM-V2.0-RX, LKV655-V2.0-RX, LKV655KVM-V2.0-RX
Rated Voltage:	DC5V
Battery Capacity:	/
Power Adapter:	S012-1D050200VU-V Input:AC100-240 50/60Hz 0.3A Output:DC5V2.0A
<i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model LKV699KVM-V2.0-RX, but the circuit and the electronic construction do not change, declared by the manufacturer.</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 The Antenna Gain is 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 C63.10-2013: American National Standard for Testing 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 C63.10-2013, 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-VHT20 MCS0	13	13	13									
Mode	NCB: 40MHz											
	5190	5230										
802.11n-HT40 MCS0	12	12										
802.11ac-VHT40	12	12										

MCS0										
Mode	NCB: 80MHz									
	5210									
802.11ac-VHT8 0 MCS0/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:	45~75 %
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	LKV699KVM2.0-TX	/
HDMI Wireless Extender	Lenkeng	LKV699-2.0-TX	/
HDMI Wireless Extender	Lenkeng	LKV677KVM-2.0-TX	/
HDMI Wireless Extender	Lenkeng	LKV677-2.0-TX	/
HDMI Wireless Extender	Lenkeng	LKV655KVM-2.0-TX	/
HDMI Wireless Extender	Lenkeng	LKV655-2.0-TX	/

1.8 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-18GHz $\pm 3.92\text{dB}$

1.9 Test Equipment List and Details

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2024-02-24	2025-02-23
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2024-03-19	2025-03-18
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2024-02-24	2025-02-23
WTXE1004A 1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2024-02-27	2025-02-26
WTXE1103A 1003	Attenuator	Pasternack	PE4007-4	/	2024-02-24	2025-02-23
WTXE1003A 1-005	Coaxial Cable	/	0M4RFC	/	2024-07-03	2025-01-03
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2024-02-24	2025-02-23
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2024-02-24	2025-02-23
WTXE1104A 1032-1	Coaxial Cable	/	RC_6G-N-M	/	2024-03-15	2025-03-14
WTXE1104A 1032-2	Coaxial Cable	/	RC_6G-N-M	/	2024-03-15	2025-03-14
WTXE1104A 1032-3	Coaxial Cable	/	RC_6G-N-M	/	2024-03-15	2025-03-14
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1065A 1001	Amplifier	C&D	PAP-1G18	2002	2024-02-27	2025-02-26
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2024-02-26	2025-02-25

WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
WTXE1104A 1033-1	Coaxial Cable	/	C16-07-07	/	2024-03-15	2025-03-14
WTXE1104A 1033-2	Coaxial Cable	/	C16-07-07	/	2024-03-15	2025-03-14
WTXE1104A 1033-3	Coaxial Cable	/	C16-07-07	/	2024-03-15	2025-03-14
☐ 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	2024-02-24	2025-02-23
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2024-02-24	2025-02-23
WTXE1104A 1031-1	Coaxial Cable	/	1.5MRFC-LWB3	/	2024-07-03	2025-07-02
WTXE1104A 1031-2	Coaxial Cable	/	RG 316	/	2024-07-03	2025-07-02
WTXE1104A 1031-3	Coaxial Cable	/	RG 316	/	2024-07-03	2025-07-02
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2024-02-24	2025-02-23
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
WTXE1104A 1034-1	Coaxial Cable	/	RC_6G-N-M	/	2024-07-03	2025-07-02
WTXE1104A 1034-2	Coaxial Cable	/	RC_6G-N-M	/	2024-07-03	2025-07-02
WTXE1104A 1034-3	Coaxial Cable	/	RC_6G-N-M	/	2024-07-03	2025-07-02
☒ Chamber C: Above 1GHz						
WTXE1093A	EMI Test	Rohde &	ESIB 26	100401	2024-02-27	2025-02-26

1001	Receiver	Schwarz				
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2024-02-27	2025-02-26
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
WTXE1104A 1035-1	Coaxial Cable	/	RC-18G-N-M	/	2024-07-03	2025-07-02
WTXE1104A 1035-2	Coaxial Cable	/	RC-18G-N-M	/	2024-07-03	2025-07-02
WTXE1104A 1035-3	Coaxial Cable	/	RC-18G-N-M	/	2024-07-03	2025-07-02
☐ Conducted Room 1#						
WTXE1104A 1029	EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2023-12-12	2024-12-11
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2024-02-24	2025-02-23
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2024-02-24	2025-02-23
WTXE1104A 1036	Coaxial Cable	/	RG 316	/	2024-07-03	2025-07-02
WTXE1104A 1038	Coaxial Cable	/	6MRFC-DP	/	2024-07-03	2025-07-02
☒ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2024-02-24	2025-02-23
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2024-02-24	2025-02-23
WTXE1104A 1037	Coaxial Cable	/	RG 316	/	2024-07-03	2025-07-02

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission A)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission B)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission C)	Farad	EZ-EMC	RA-03A1-2 (1.1.4.2)
EMI Test Software (Conducted Emission Room 1#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3
EMI Test Software (Conducted Emission Room 2#)	Farad	EZ-EMC	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	Compliant
§15.407(e)	Emission Bandwidth and Occupied Bandwidth	Compliant
§15.407(a)(1),(2)	Maximum Conducted Output Power	Compliant
§15.407(b)(1),(2),(3),(4)	Undesirable emission	Compliant
§15.205; §15.407(b)(1),(2),(3)	Radiated Emission	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.407(h)	Dynamic Frequency Selection (DFS)	Compliant

N/A: Not applicable.

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. Power Spectral Density

5.1 Standard Applicable

Section 15.407(a) Power limits:

(1) For the band 5.15-5.25GHz.

(iv) For mobile and portable client devices in the 5.15-5.25GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250mW provided the maximum antenna gain does not exceed 6dBi. In addition, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(2) For the 5.25-5.35GHz and 5.47-5.725GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250mW or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(3) For the band 5.725-5.85GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30dBm in any 500kHz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6dBi 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. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

5.2 Test Procedure

According to 789033 D02 v02r01 General UNII Test Procedures New Rules v02, the following is the measurement procedure.

For devices operating in the bands 5.15-5.25GHz, 5.25-5.35GHz, and 5.47-5.725GHz, the above procedures make use of 1MHz RBW to satisfy directly the 1MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85GHz, the rules specify a measurement bandwidth of 500kHz. Many spectrum analyzers do not have 500kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1MHz, or 500kHz, "provided that the measured power is integrated over the full

reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1MHz, or 500kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500kHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3$ RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100kHz for the sections 5.c) and 5.d) above, since $RBW=100\text{kHz}$ is available on nearly all spectrum analyzers.

5.3 Summary of Test Results/Plots

Please refer to Appendix A

6. Emission Bandwidth and Occupied Bandwidth

6.1 Standard Applicable

According to 15.407(a) and (e):

(1) For the band 5.15-5.25GHz.

(iv) For mobile and portable client devices in the 5.15-5.25GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250mW provided the maximum antenna gain does not exceed 6dBi. In addition, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(2) For the 5.25-5.35GHz and 5.47-5.725GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250mW or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(3) For the band 5.725-5.85GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30dBm in any 500kHz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6dBi 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. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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

6.2 Test Procedure

According to 789033 D02 v02r0r section C&D, the following is the measurement procedure.

1. Emission Bandwidth (EBW)

a) Set RBW = approximately 1% of the emission bandwidth.

b) Set the VBW > RBW.

- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26dB down from the maximum 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%.

2. Minimum Emission Bandwidth for the band 5.725-5.85GHz

Section 15.407(e) specifies the minimum 6dB emission bandwidth of at least 500kHz for the band 5.715-5.85GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) 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.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

D. 99 Percent Occupied Bandwidth

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section II.G.3.d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the EBW to 789033 D02 v02r01 General UNII Test Procedures New Rules v01 define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

The following procedure shall be used for measuring (99 %) power bandwidth:

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1 % to 5 % of the OBW
- 4. Set VBW $\geq 3 \times$ RBW
- 5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- 6. Use the 99 % power bandwidth function of the instrument (if available).
- 7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency.

Reference No.: WTH24X11267266W001

The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

6.3 Summary of Test Results/Plots

Please refer to Appendix B

7. Maximum Conducted Output Power

7.1 Standard Applicable

Section 15.407(a) Power limits:

(1) For the band 5.15-5.25GHz.

(iv) For mobile and portable client devices in the 5.15-5.25GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250mW provided the maximum antenna gain does not exceed 6dBi. In addition, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(2) For the 5.25-5.35GHz and 5.47-5.725GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250mW or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

(3) For the band 5.725-5.85GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30dBm in any 500kHz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6dBi 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 colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

7.2 Test Procedure

According to KDB789033 D02 v02r01 section E, the following is the measurement procedure.

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1MHz.
- (iii) Set VBW $\geq$ 3MHz.
- (iv) Number of points in sweep $\geq$ 2 Span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that

narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

(vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

(vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

7.3 Summary of Test Results/Plots

Please refer to Appendix C

8. Radiated Spurious Emissions

8.1 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.

789033 D02 v02r01 General UNII Test Procedures New Rules v01

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.

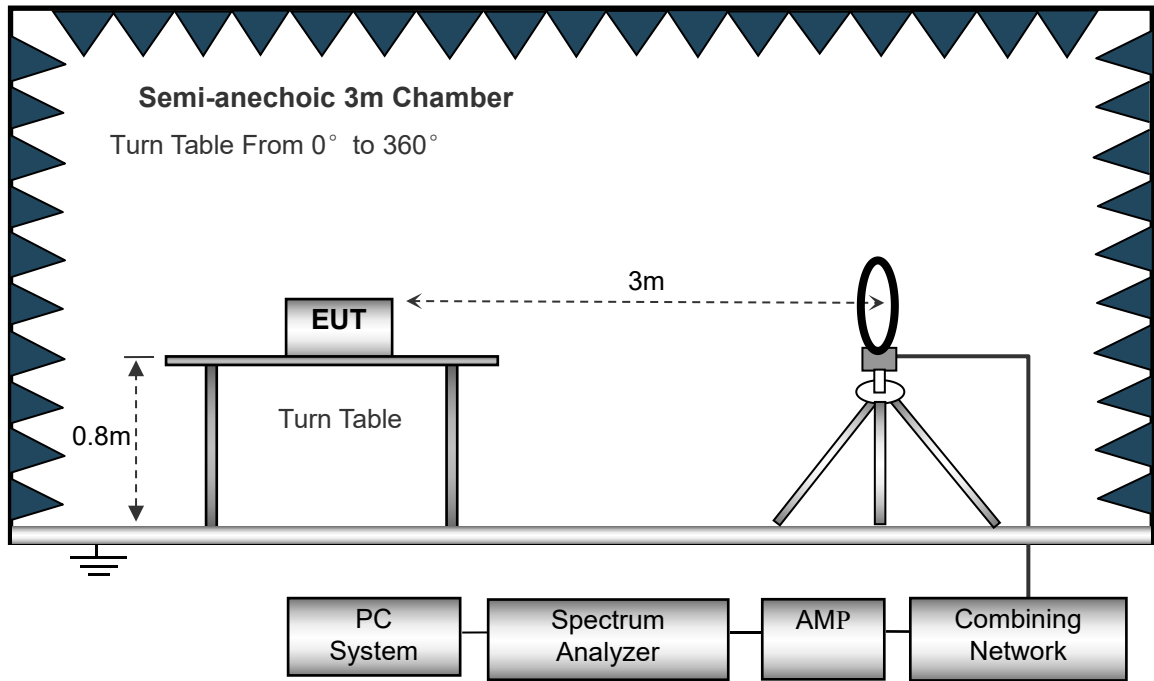
8.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

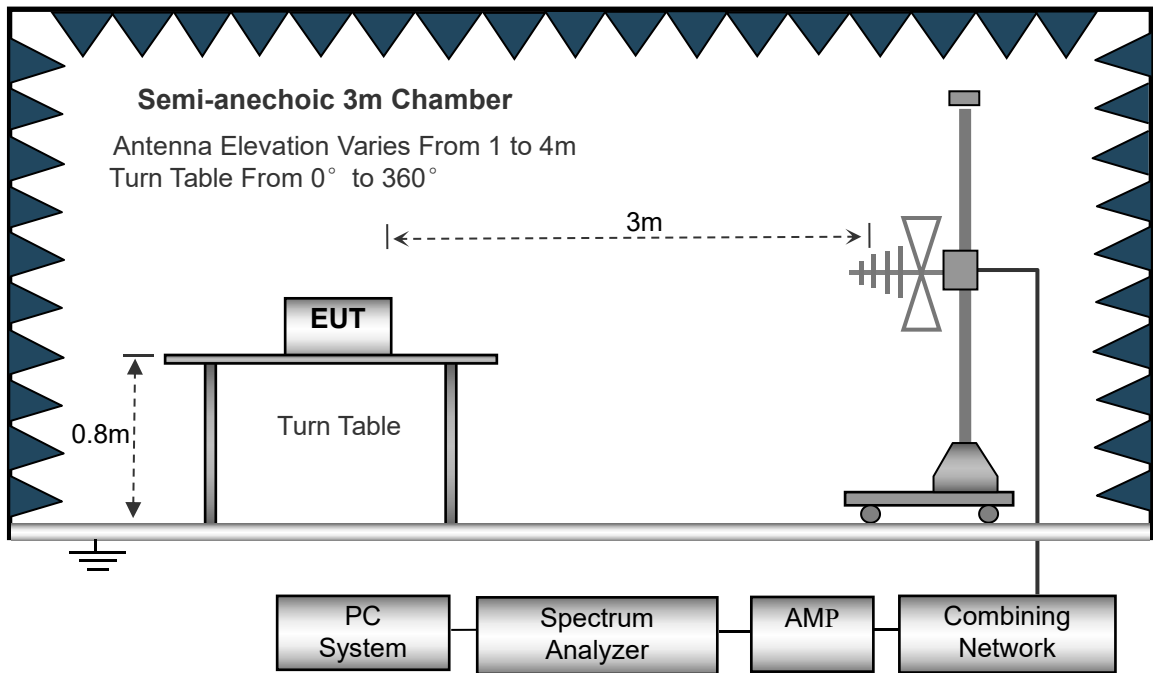
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

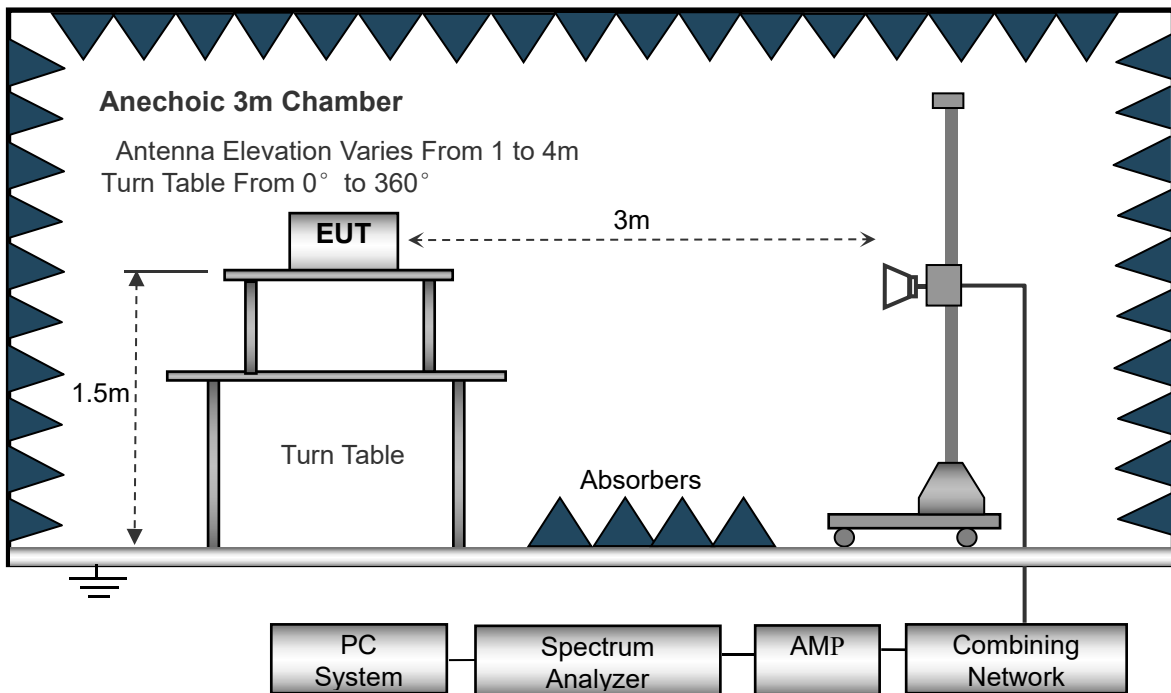
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1GHz.



8.3 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

8.4 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:

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

8.5 Summary of Test Results/Plots

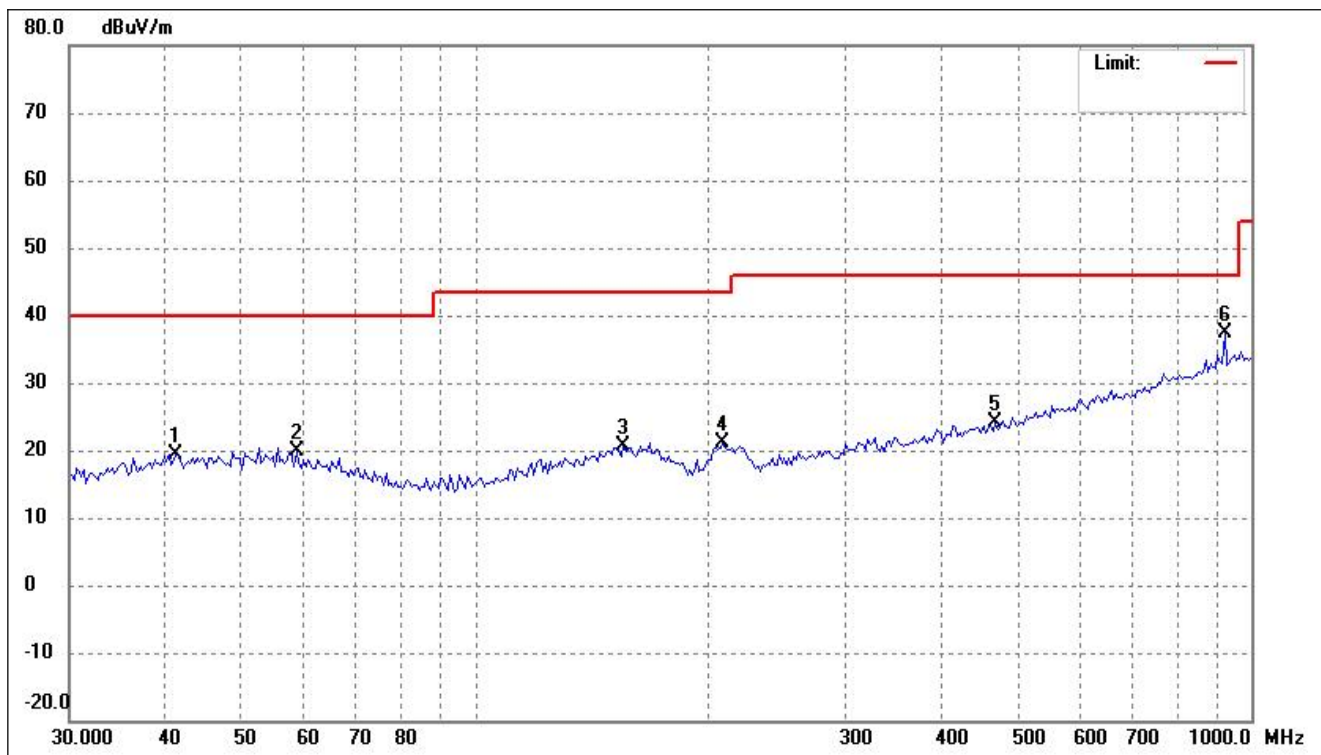
Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

- Spurious Emission From 30MHz to 1GHz

Model:LKV699KVM-V2.0-RX

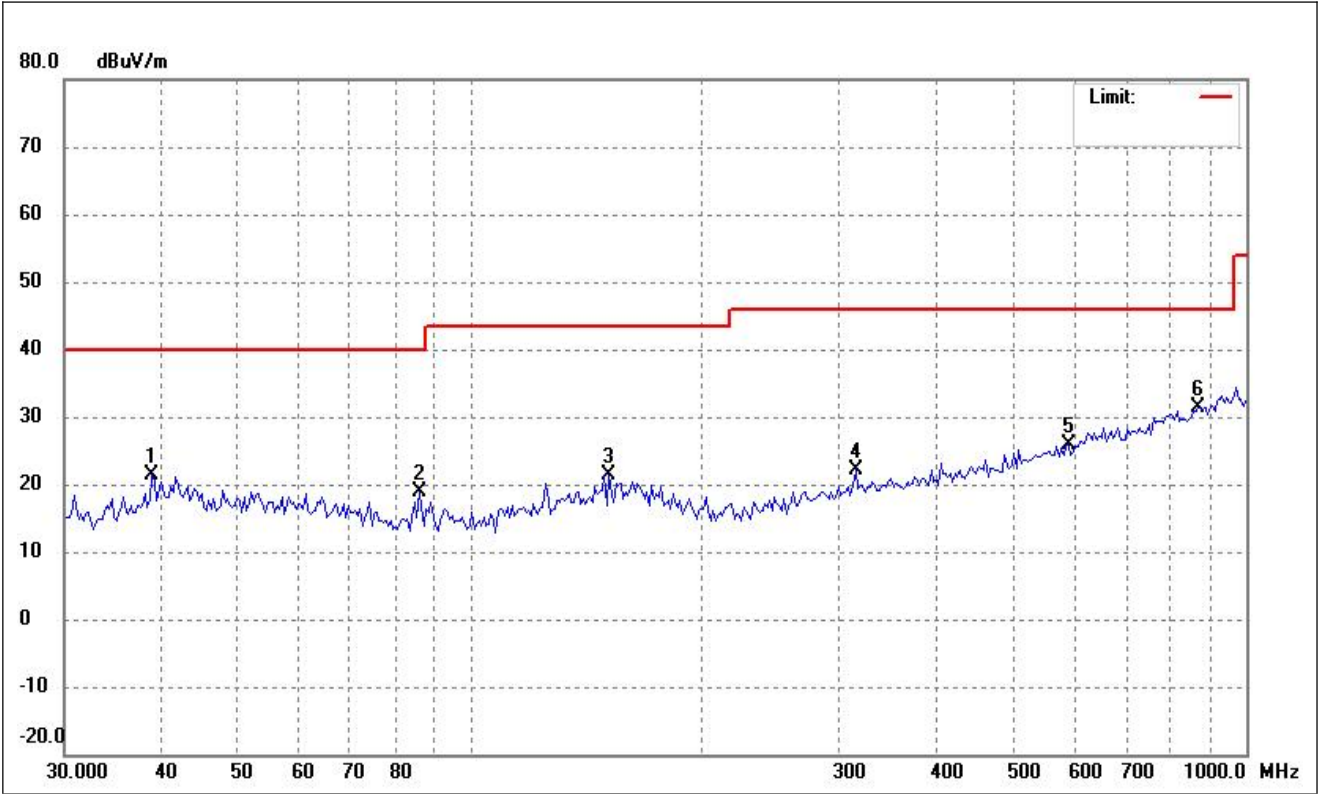
- Antenna 1(Worst case)
- 5150-5250MHz

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



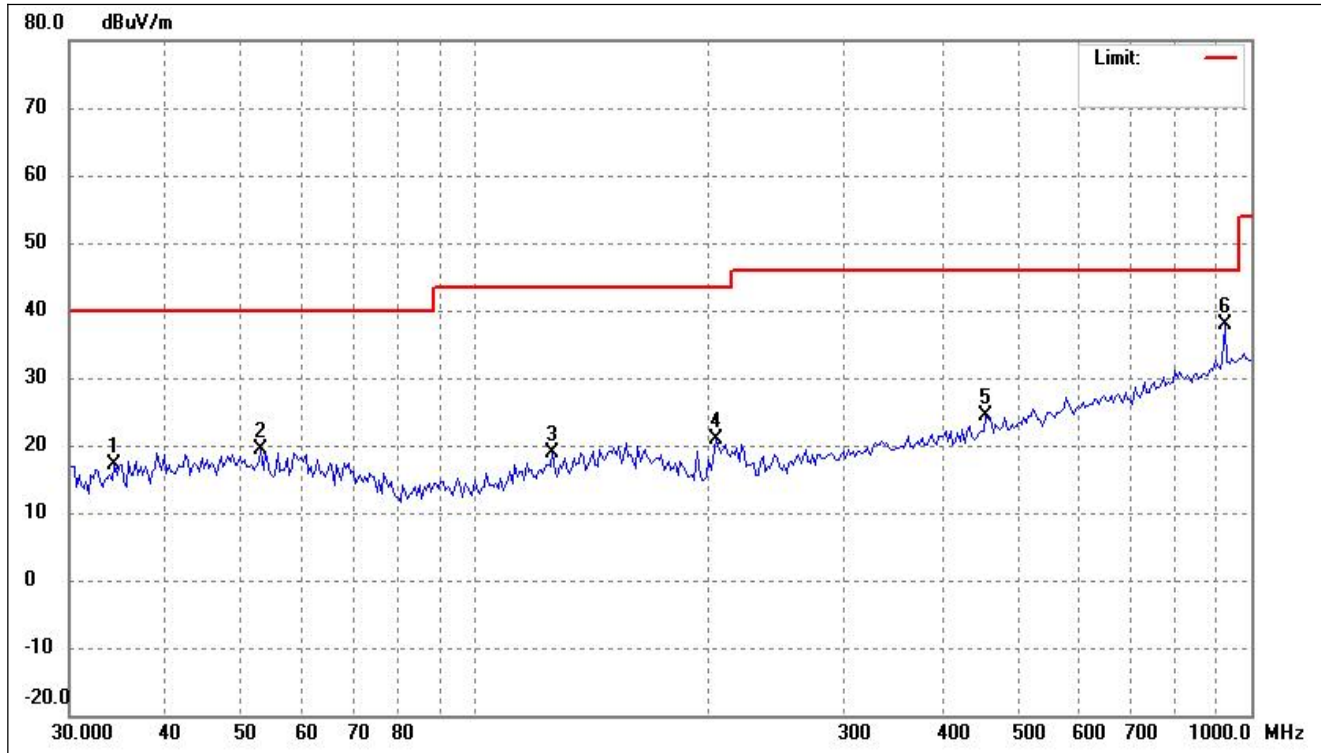
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	41.1581	27.30	-7.96	19.34	40.00	-20.66	-	-	peak
2	58.8979	28.12	-8.36	19.76	40.00	-20.24	-	-	peak
3	155.3305	28.76	-8.05	20.71	43.50	-22.79	-	-	peak
4	208.6580	32.61	-11.58	21.03	43.50	-22.47	-	-	peak
5	468.1651	29.11	-5.05	24.06	46.00	-21.94	-	-	peak
6	925.6132	34.74	2.72	37.46	46.00	-8.54	-	-	peak

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



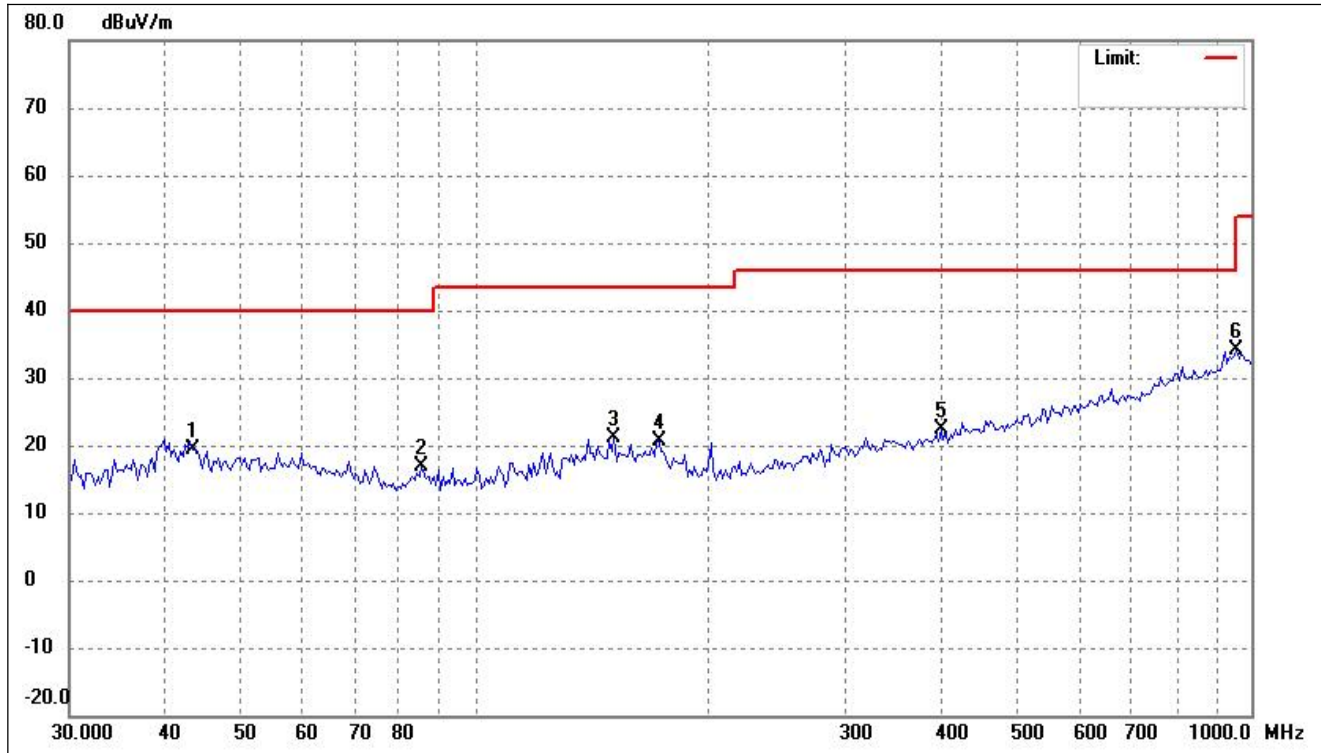
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	38.9081	29.46	-8.19	21.27	40.00	-18.73	-	-	peak
2	86.0796	31.46	-12.53	18.93	40.00	-21.07	-	-	peak
3	151.0252	29.49	-8.05	21.44	43.50	-22.06	-	-	peak
4	313.6483	29.59	-7.57	22.02	46.00	-23.98	-	-	peak
5	590.3511	28.48	-2.48	26.00	46.00	-20.00	-	-	peak
6	868.8860	29.63	1.75	31.38	46.00	-14.62	-	-	peak

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



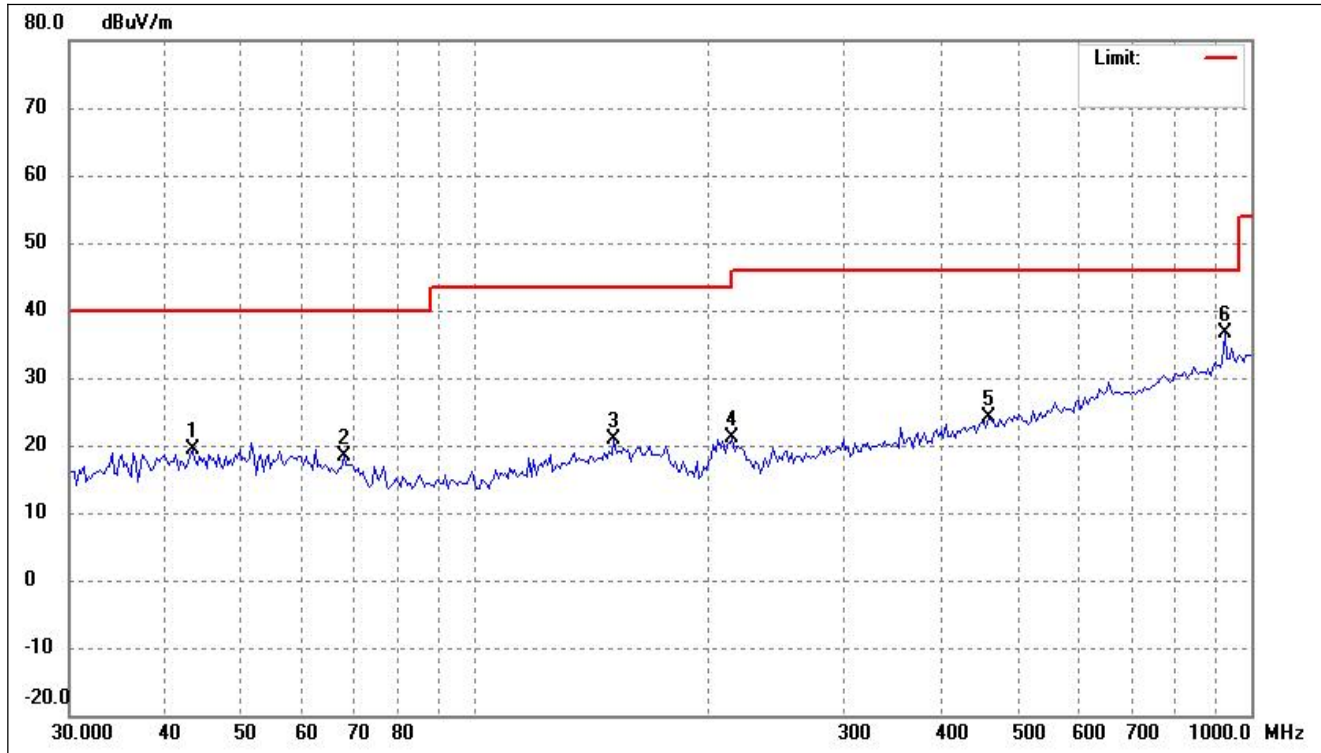
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	34.2852	26.25	-9.11	17.14	40.00	-22.86	-	-	peak
2	53.0056	27.32	-7.91	19.41	40.00	-20.59	-	-	peak
3	125.8059	28.43	-9.61	18.82	43.50	-24.68	-	-	peak
4	204.3052	32.34	-11.47	20.87	43.50	-22.63	-	-	peak
5	455.1888	29.57	-5.15	24.42	46.00	-21.58	-	-	peak
6	925.6132	35.07	2.72	37.79	46.00	-8.21	-	-	peak

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



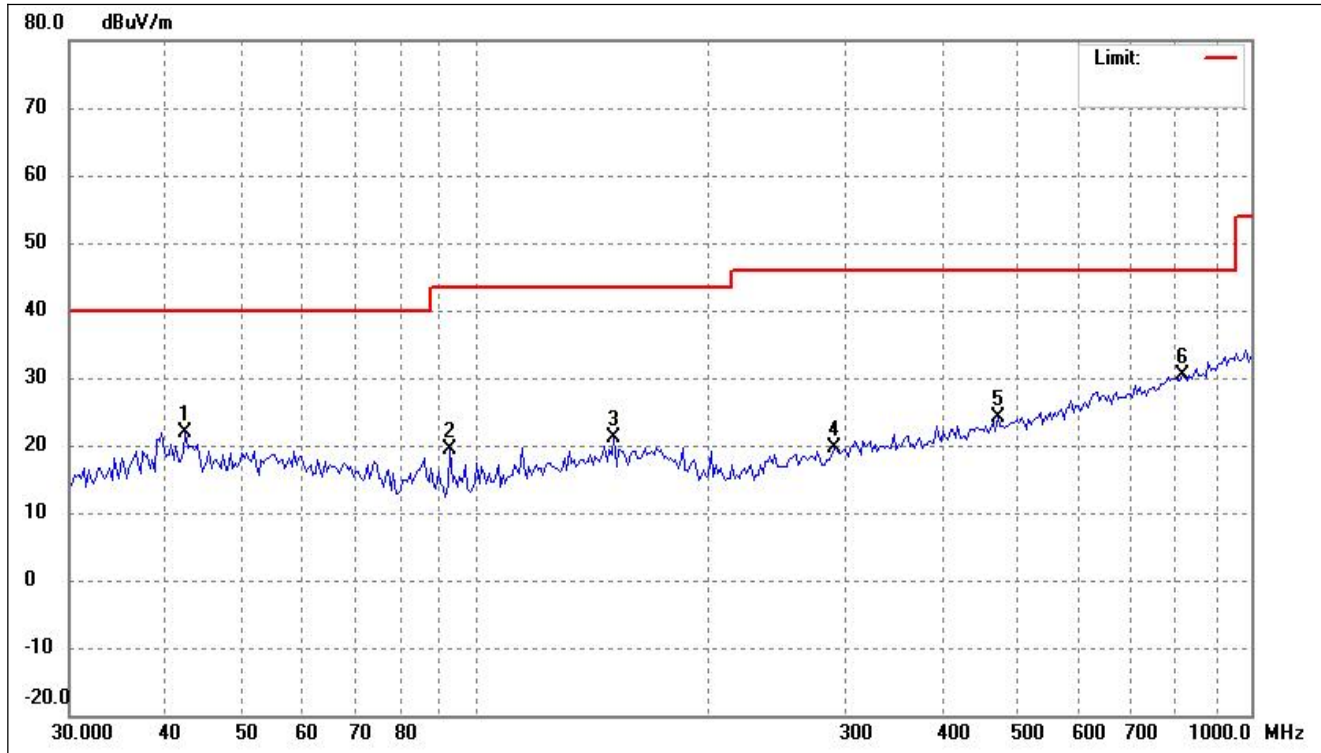
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	43.5381	27.24	-7.95	19.29	40.00	-20.71	-	-	peak
2	85.4769	29.42	-12.53	16.89	40.00	-23.11	-	-	peak
3	151.0252	29.13	-8.05	21.08	43.50	-22.42	-	-	peak
4	172.5976	29.36	-8.68	20.68	43.50	-22.82	-	-	peak
5	398.2962	28.65	-6.28	22.37	46.00	-23.63	-	-	peak
6	958.7135	30.81	3.34	34.15	46.00	-11.85	-	-	peak

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



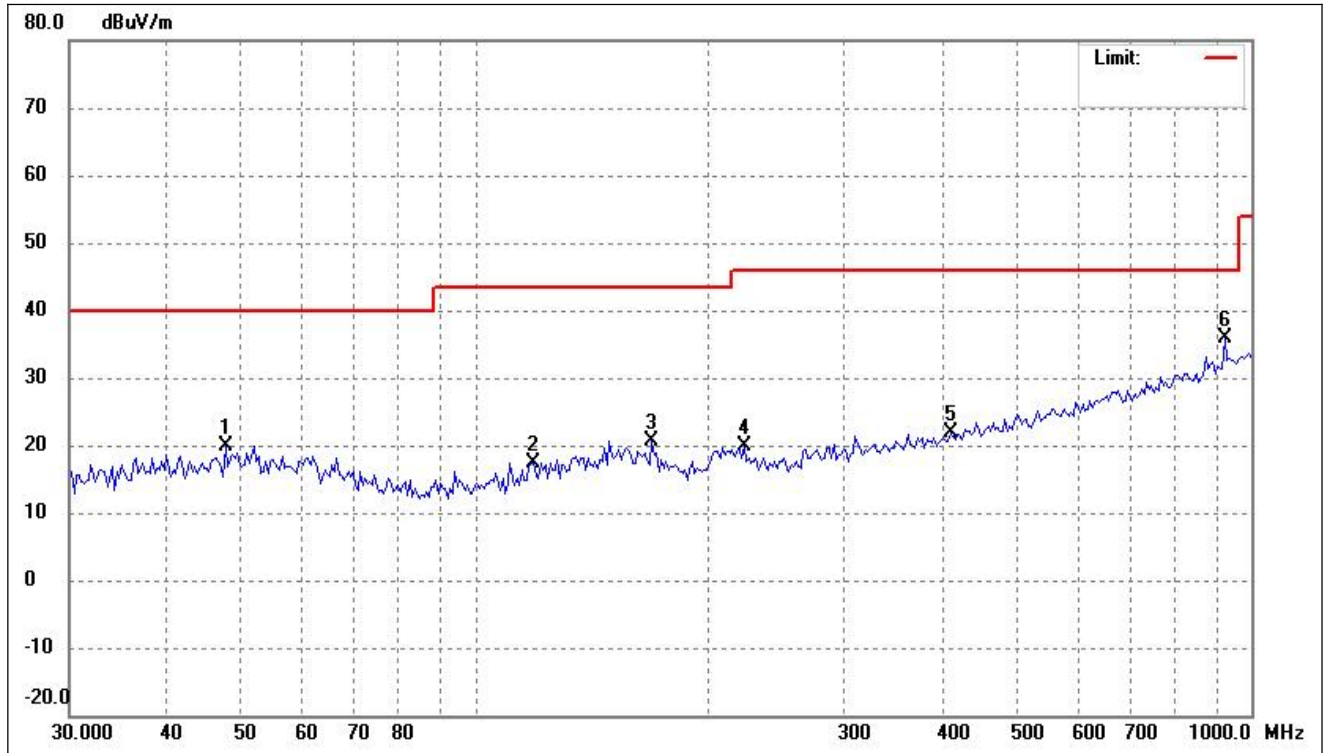
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	43.2333	27.27	-7.95	19.32	40.00	-20.68	-	-	peak
2	67.7856	28.30	-9.85	18.45	40.00	-21.55	-	-	peak
3	151.0252	28.94	-8.05	20.89	43.50	-22.61	-	-	peak
4	214.6063	32.60	-11.56	21.04	43.50	-22.46	-	-	peak
5	458.3987	29.13	-5.12	24.01	46.00	-21.99	-	-	peak
6	925.6132	33.89	2.72	36.61	46.00	-9.39	-	-	peak

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



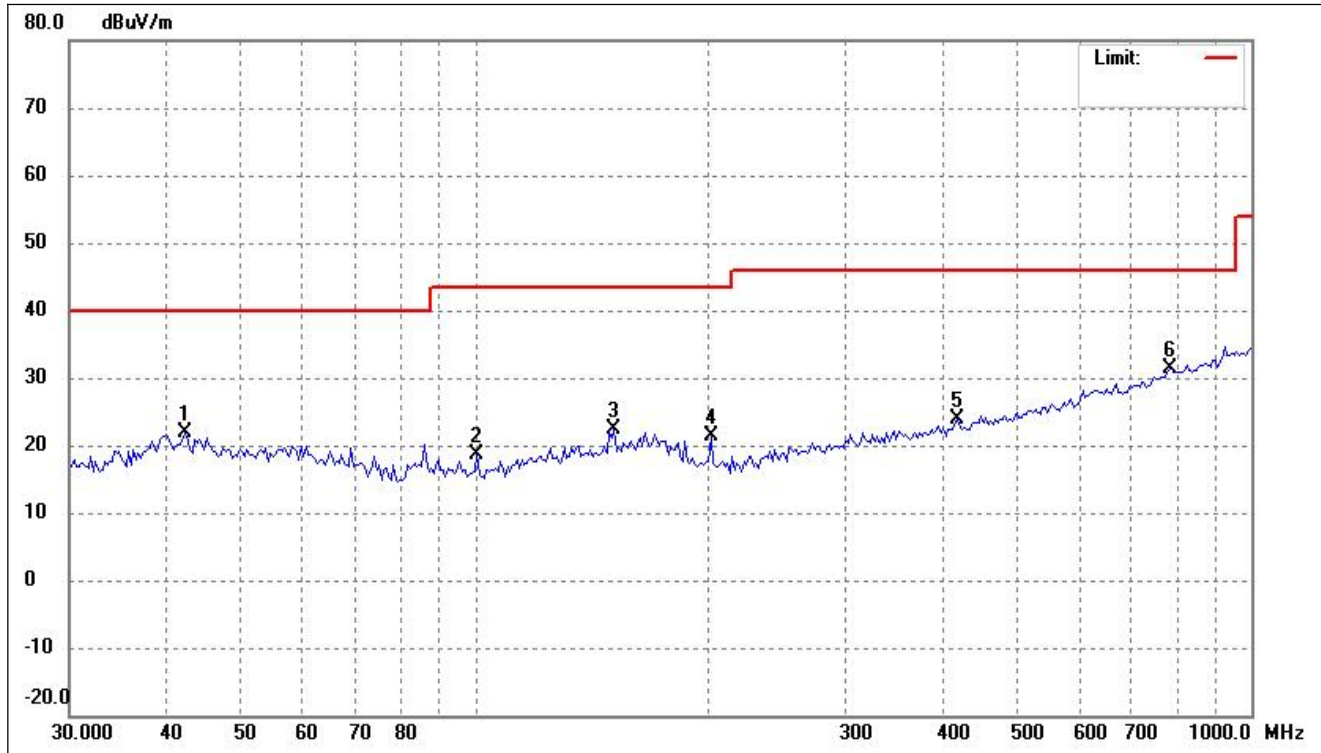
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	42.3314	29.95	-7.96	21.99	40.00	-18.01	-	-	peak
2	92.9974	31.70	-12.42	19.28	43.50	-24.22	-	-	peak
3	151.0252	29.10	-8.05	21.05	43.50	-22.45	-	-	peak
4	290.3170	27.71	-8.16	19.55	46.00	-26.45	-	-	peak
5	471.4665	29.24	-5.02	24.22	46.00	-21.78	-	-	peak
6	815.6353	29.31	1.17	30.48	46.00	-15.52	-	-	peak

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



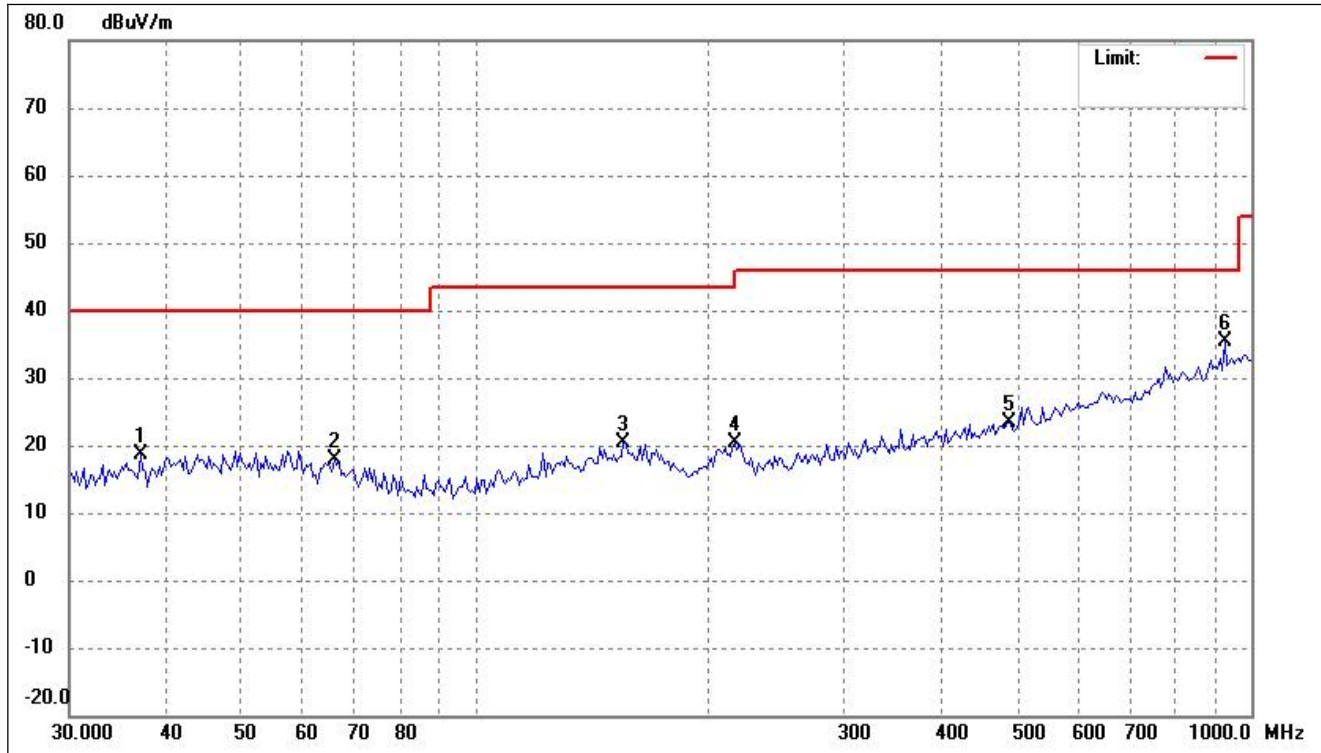
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	47.7028	27.71	-7.76	19.95	40.00	-20.05	-	-	peak
2	118.9285	27.52	-10.13	17.39	43.50	-26.11	-	-	peak
3	168.9970	28.88	-8.29	20.59	43.50	-22.91	-	-	peak
4	222.2807	31.41	-11.42	19.99	46.00	-26.01	-	-	peak
5	409.6506	27.99	-6.06	21.93	46.00	-24.07	-	-	peak
6	925.6132	33.08	2.72	35.80	46.00	-10.20	-	-	peak

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



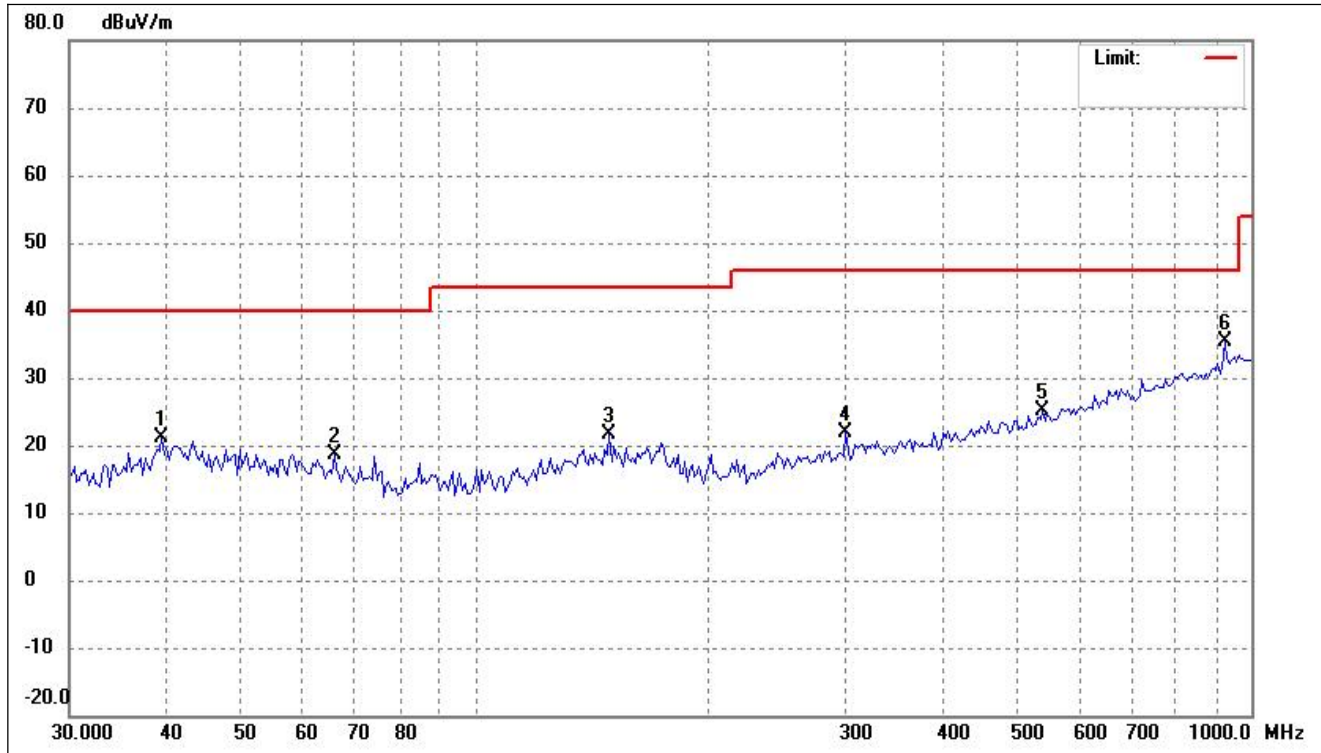
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	42.3313	29.86	-7.96	21.90	40.00	-18.10	-	-	peak
2	100.4711	30.51	-11.95	18.56	43.50	-24.94	-	-	peak
3	151.0251	30.55	-8.05	22.50	43.50	-21.00	-	-	peak
4	201.4538	32.87	-11.42	21.45	43.50	-22.05	-	-	peak
5	418.3783	29.77	-5.88	23.89	46.00	-22.11	-	-	peak
6	787.4748	30.60	0.80	31.40	46.00	-14.60	-	-	peak

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



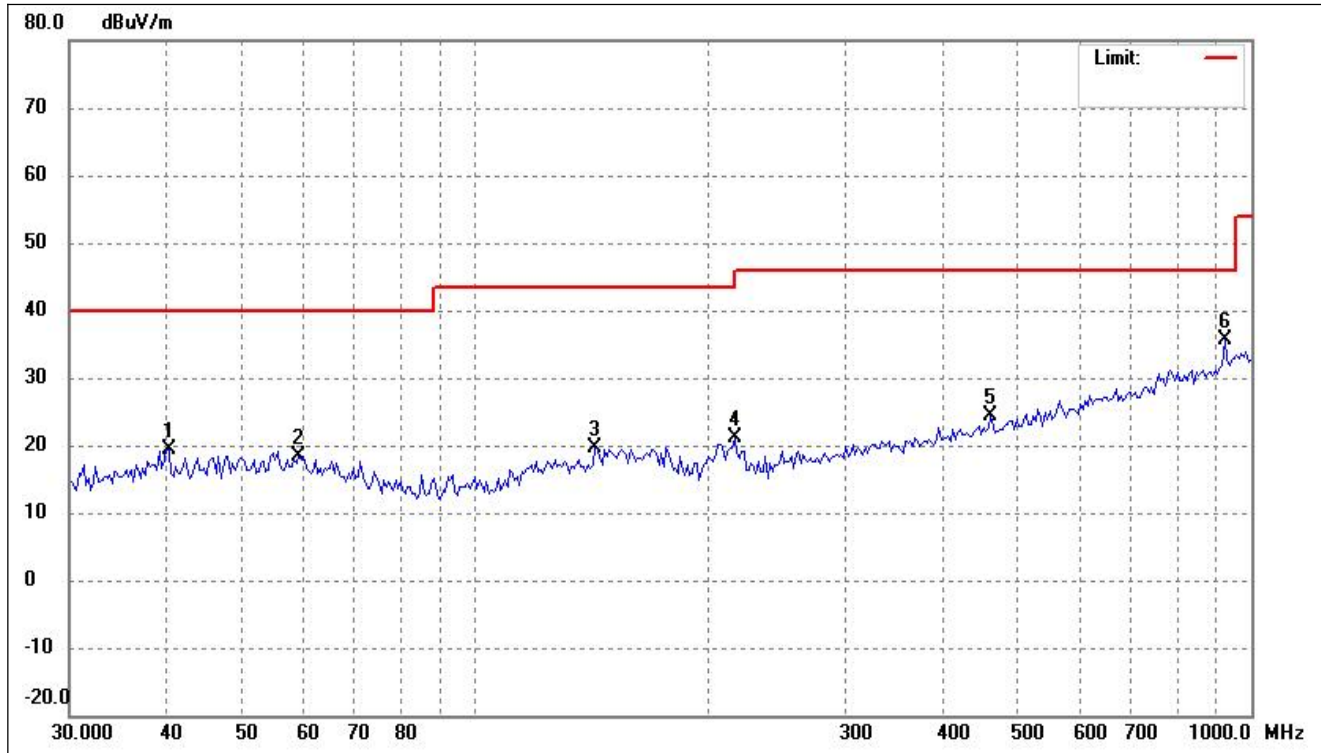
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	37.0405	27.19	-8.58	18.61	40.00	-21.39	-	-	peak
2	65.9067	27.49	-9.51	17.98	40.00	-22.02	-	-	peak
3	155.3305	28.45	-8.05	20.40	43.50	-23.10	-	-	peak
4	216.1197	31.90	-11.55	20.35	46.00	-25.65	-	-	peak
5	488.3263	28.38	-4.90	23.48	46.00	-22.52	-	-	peak
6	925.6132	32.75	2.72	35.47	46.00	-10.53	-	-	peak

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



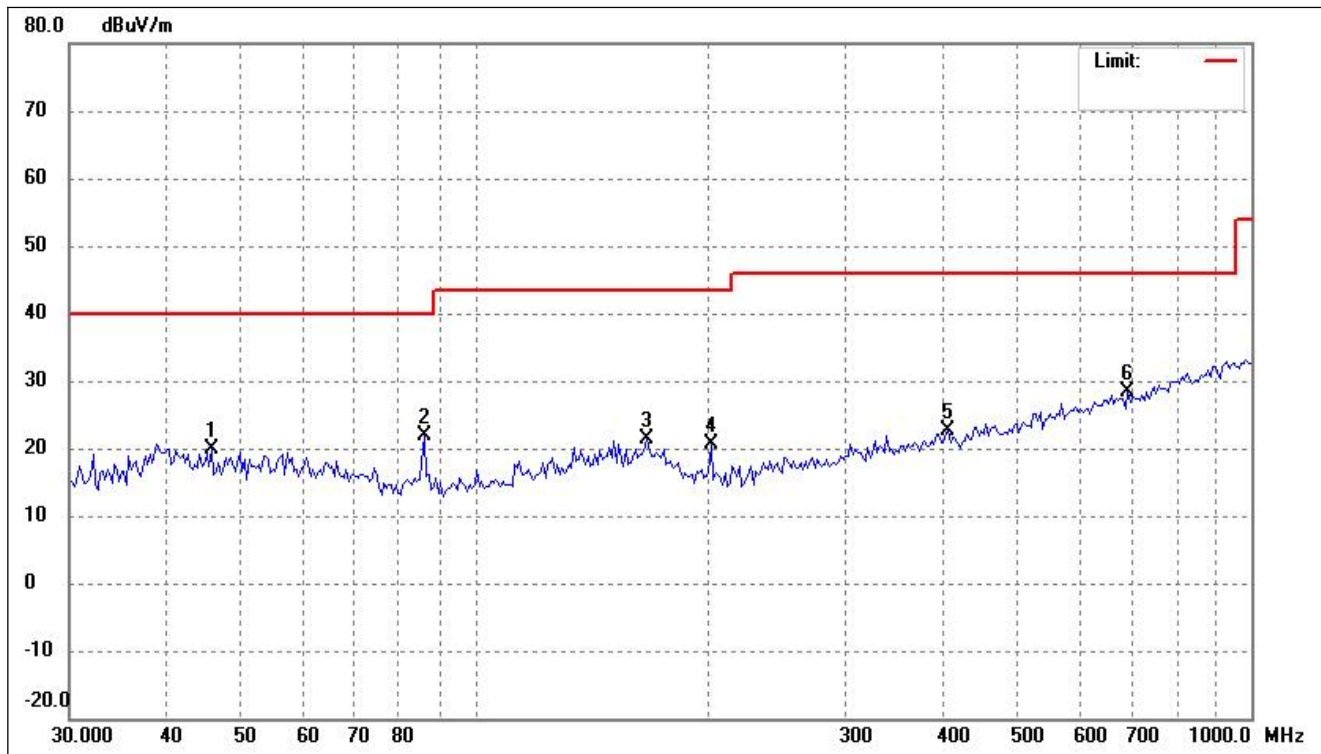
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	39.4588	29.10	-8.07	21.03	40.00	-18.97	-	-	peak
2	65.9067	28.26	-9.51	18.75	40.00	-21.25	-	-	peak
3	148.9175	29.79	-8.14	21.65	43.50	-21.85	-	-	peak
4	300.6988	29.68	-7.85	21.83	46.00	-24.17	-	-	peak
5	538.8107	29.15	-3.90	25.25	46.00	-20.75	-	-	peak
6	925.6132	32.74	2.72	35.46	46.00	-10.54	-	-	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	40.2995	27.41	-7.96	19.45	40.00	-20.55	-	-	peak
2	59.3133	26.85	-8.39	18.46	40.00	-21.54	-	-	peak
3	142.7692	28.19	-8.66	19.53	43.50	-23.97	-	-	peak
4	216.1197	32.58	-11.55	21.03	46.00	-24.97	-	-	peak
5	461.6313	29.54	-5.09	24.45	46.00	-21.55	-	-	peak
6	925.6132	32.93	2.72	35.65	46.00	-10.35	-	-	peak

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

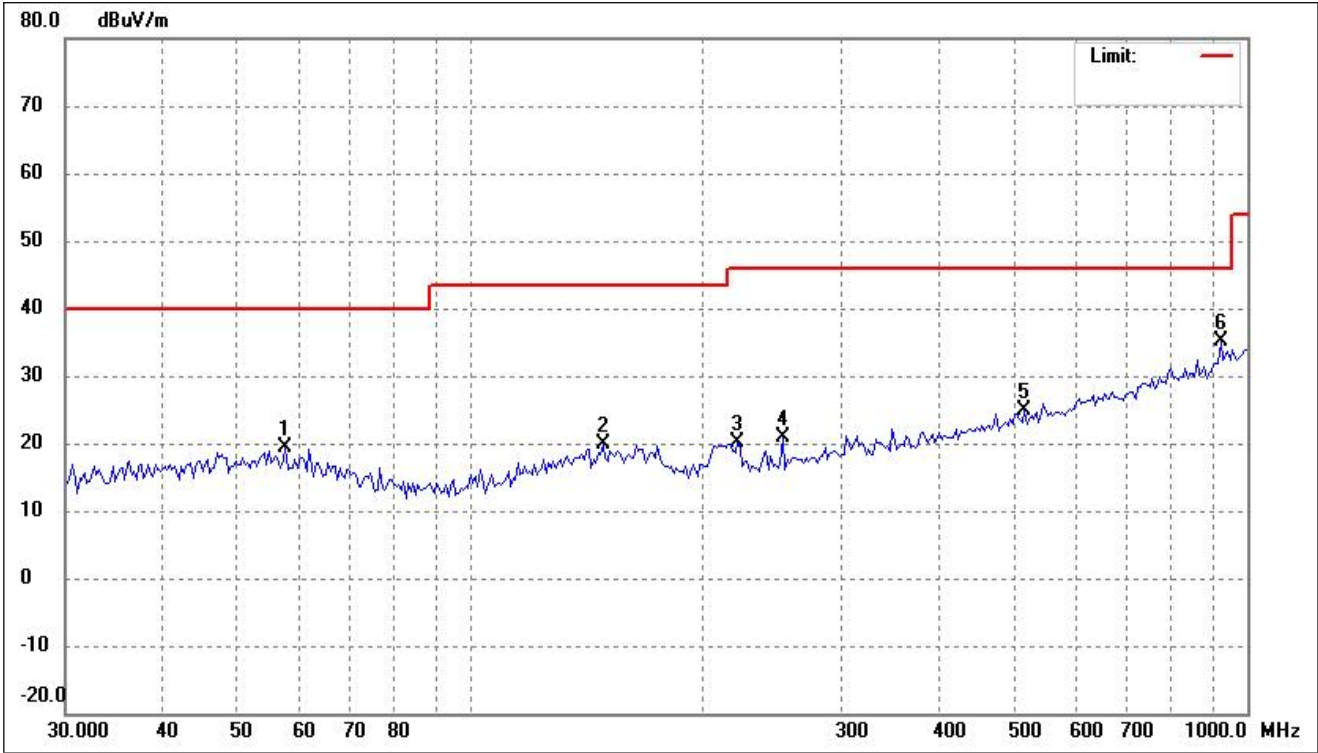


No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	45.7333	27.83	-7.90	19.93	40.00	-20.07	-	-	peak
2	86.0796	34.46	-12.53	21.93	40.00	-18.07	-	-	peak
3	166.6385	29.54	-8.23	21.31	43.50	-22.19	-	-	peak
4	201.4539	32.16	-11.42	20.74	43.50	-22.76	-	-	peak
5	406.7820	28.87	-6.12	22.75	46.00	-23.25	-	-	peak
6	693.9101	29.46	-1.17	28.29	46.00	-17.71	-	-	peak

Model: LKV699-V2.0-RX

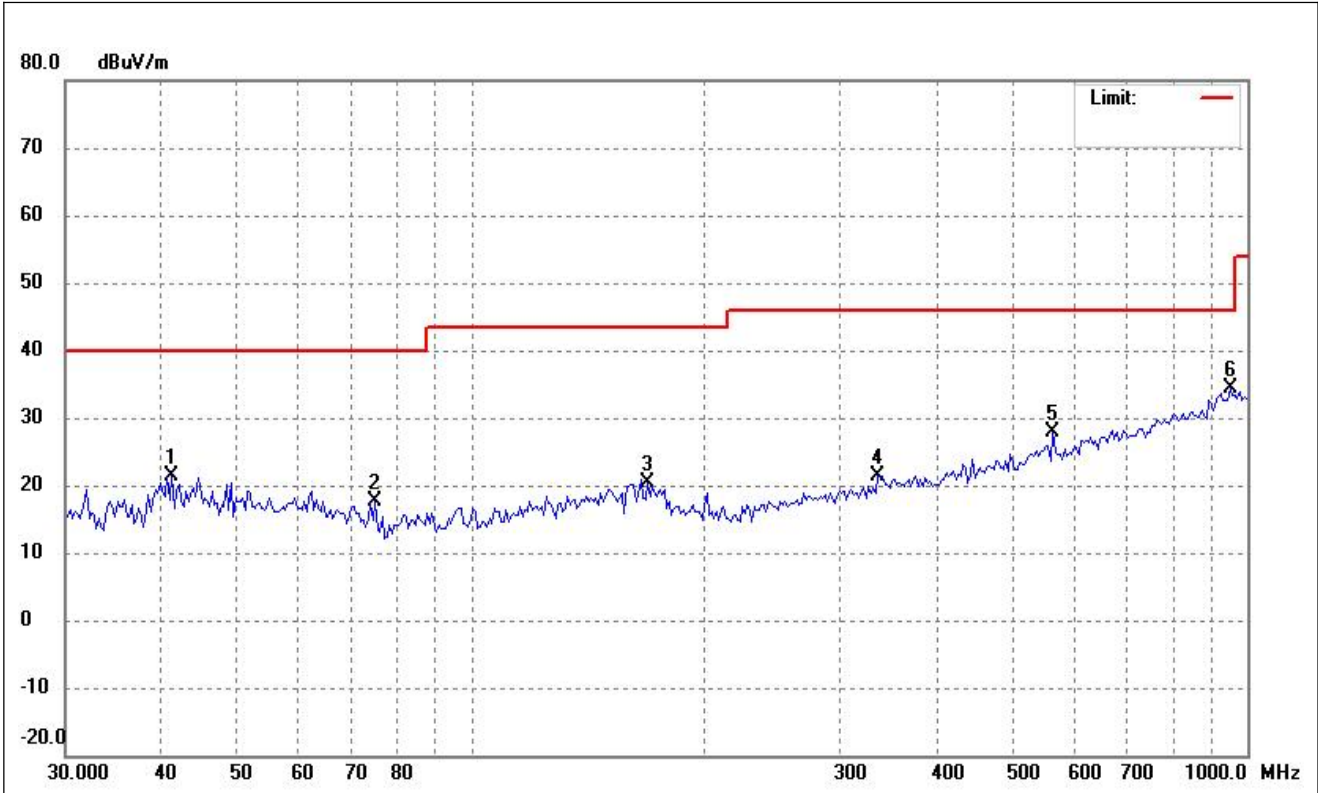
- Antenna 1(Worst case)
- 5150-5250MHz

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



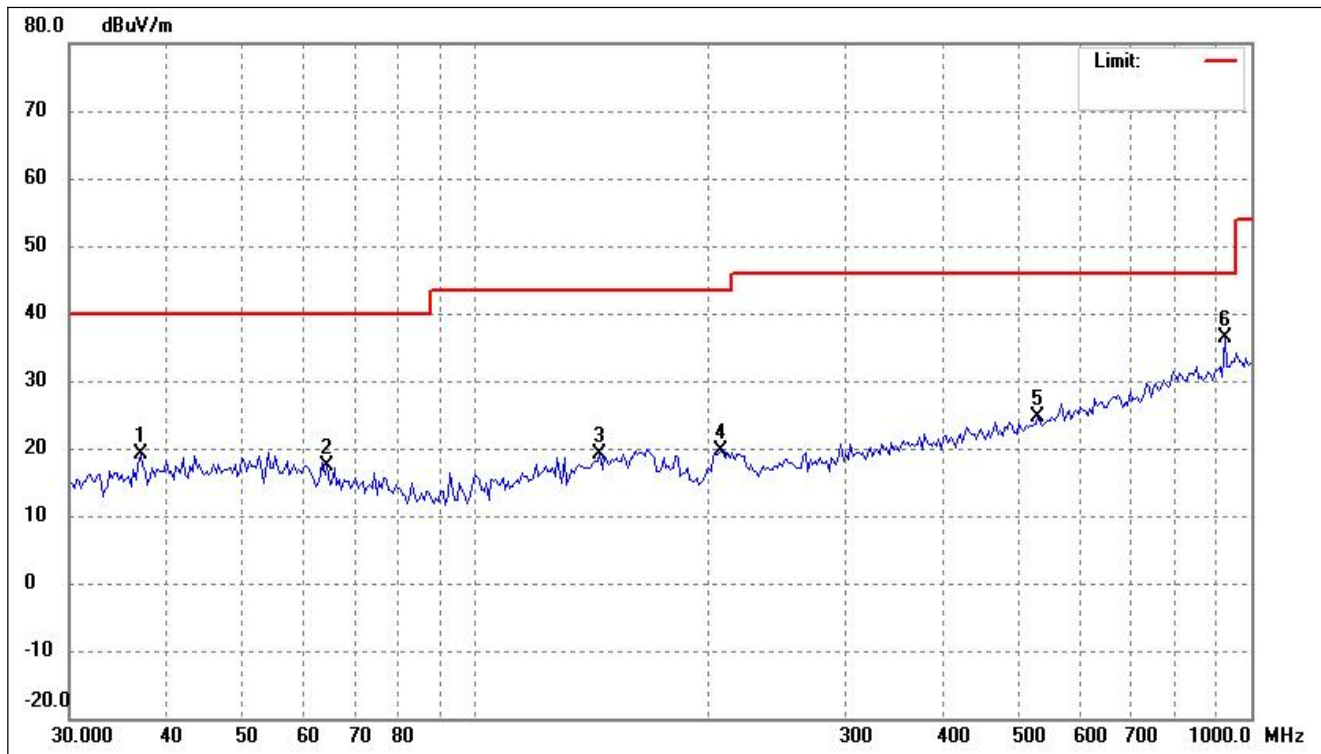
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	57.6693	27.78	-8.29	19.49	40.00	-20.51	-	-	peak
2	147.8747	28.22	-8.22	20.00	43.50	-23.50	-	-	peak
3	220.7241	31.68	-11.48	20.20	46.00	-25.80	-	-	peak
4	252.2523	30.48	-9.61	20.87	46.00	-25.13	-	-	peak
5	516.5651	29.32	-4.48	24.84	46.00	-21.16	-	-	peak
6	925.6132	32.44	2.72	35.16	46.00	-10.84	-	-	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	41.1581	29.26	-7.96	21.30	40.00	-18.70	-	-	peak
2	75.3208	28.93	-11.42	17.51	40.00	-22.49	-	-	peak
3	168.9970	28.66	-8.29	20.37	43.50	-23.13	-	-	peak
4	334.1255	28.68	-7.23	21.45	46.00	-24.55	-	-	peak
5	562.0143	31.11	-3.20	27.91	46.00	-18.09	-	-	peak
6	952.0001	31.05	3.31	34.36	46.00	-11.64	-	-	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	37.0405	27.68	-8.58	19.10	40.00	-20.90	-	-	peak
2	64.5319	26.58	-9.25	17.33	40.00	-22.67	-	-	peak
3	144.7899	27.69	-8.49	19.20	43.50	-24.30	-	-	peak
4	207.1968	31.29	-11.55	19.74	43.50	-23.76	-	-	peak
5	531.2910	28.85	-4.12	24.73	46.00	-21.27	-	-	peak
6	925.6132	33.77	2.72	36.49	46.00	-9.51	-	-	peak

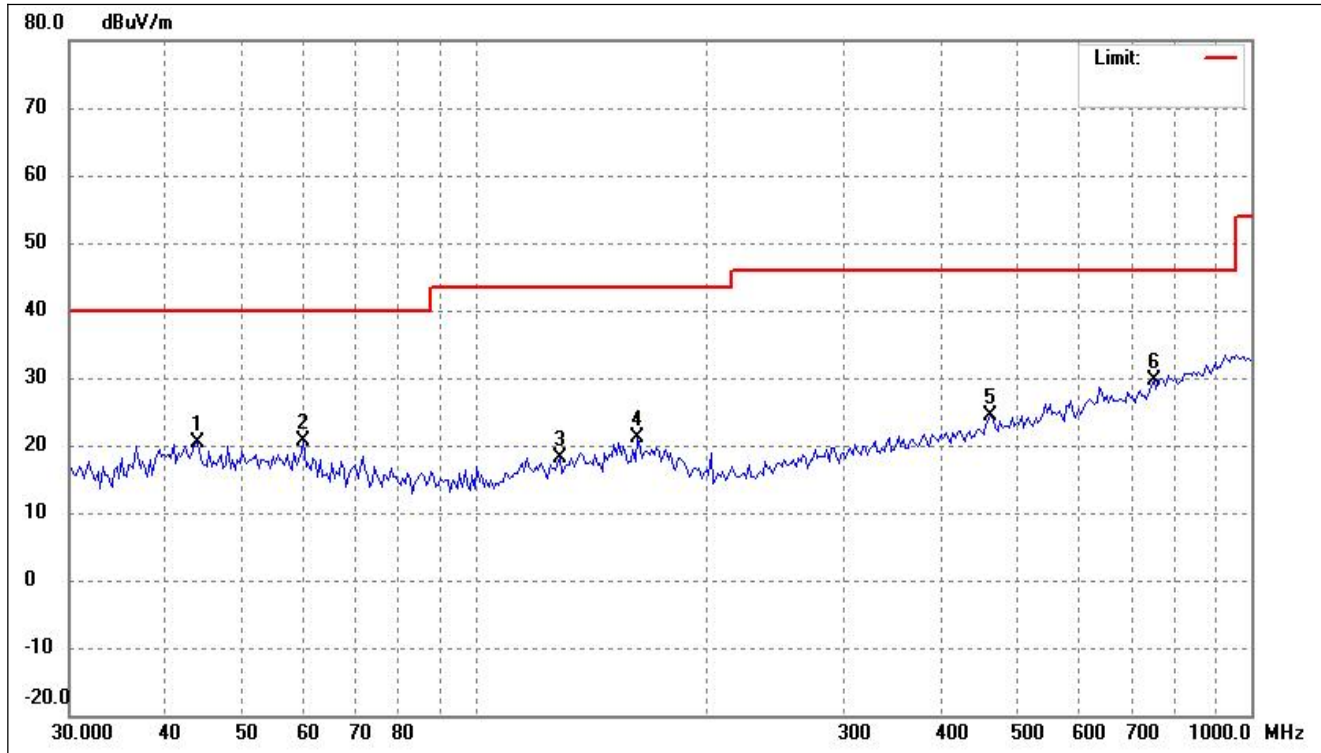
802.11n-HT20

Test Channel

5180MHz(worst case)

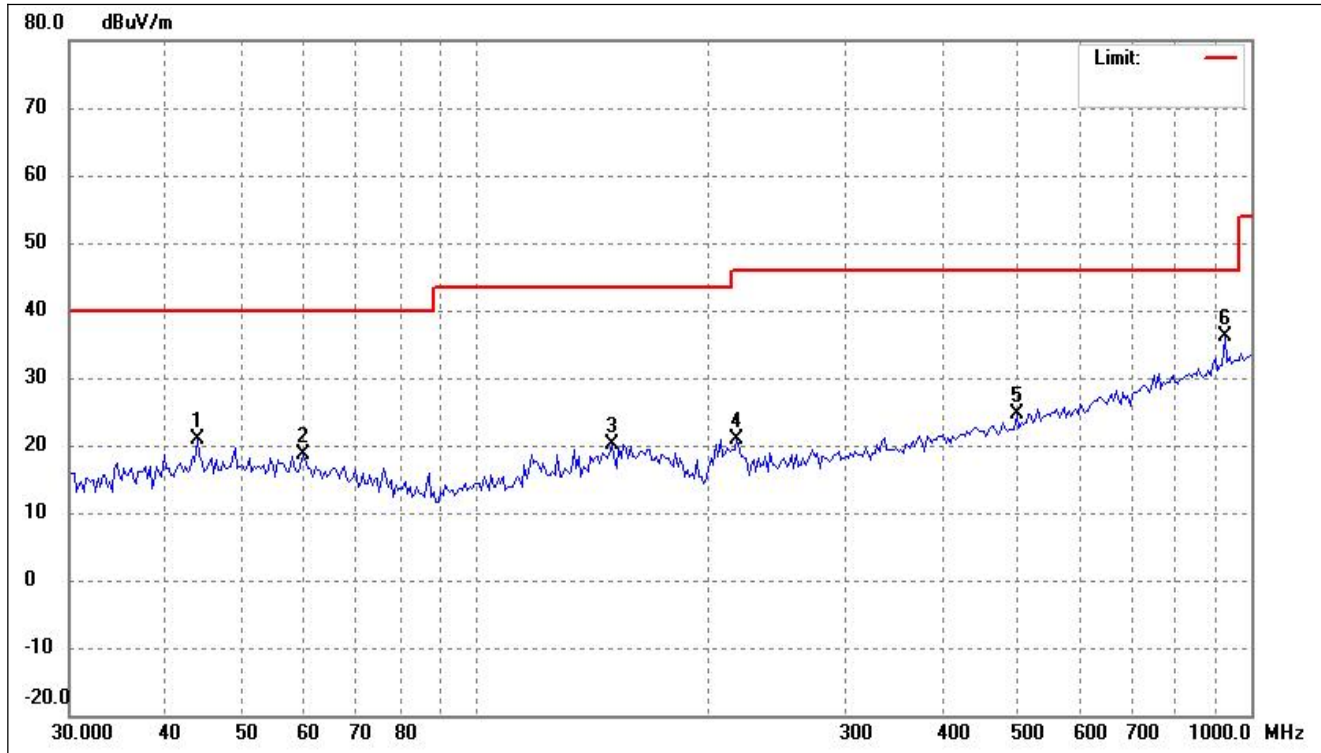
Polarity:

Vertical



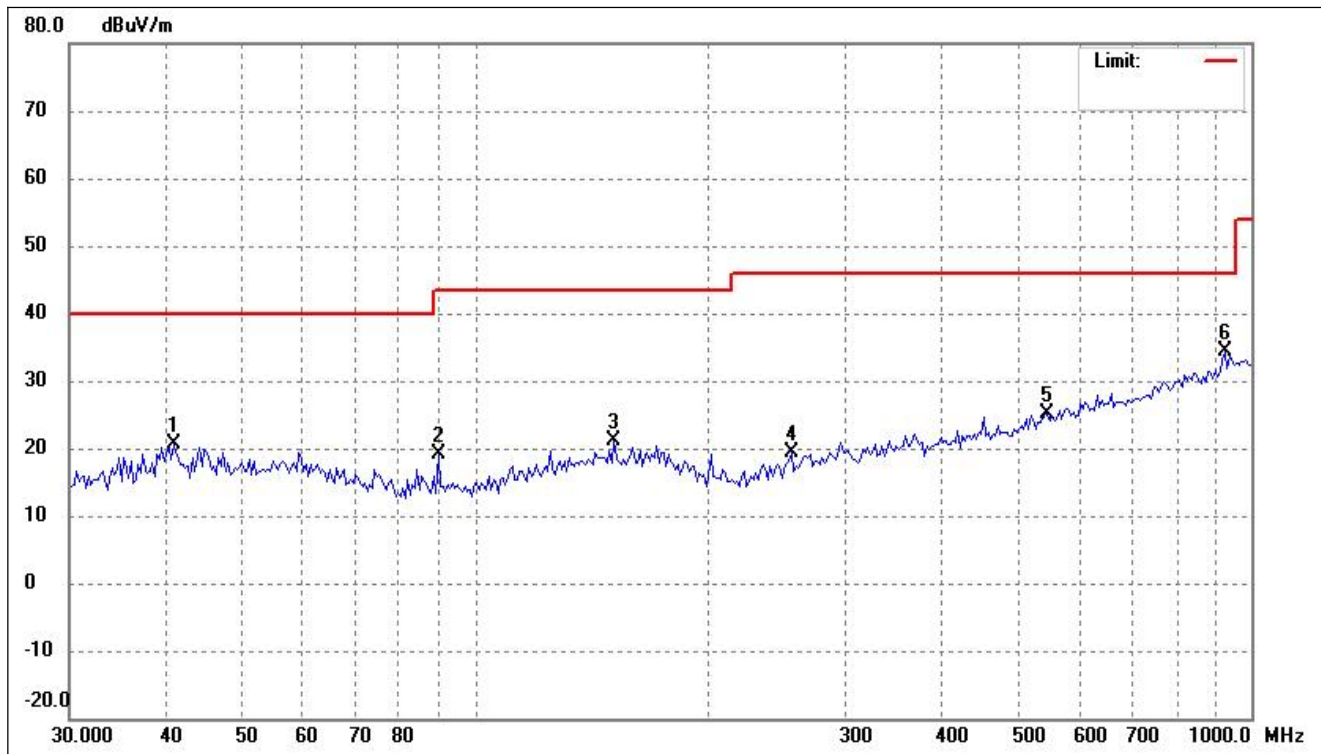
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	43.8452	28.30	-7.96	20.34	40.00	-19.66	-	-	peak
2	60.1528	29.12	-8.46	20.66	40.00	-19.34	-	-	peak
3	128.4862	27.54	-9.43	18.11	43.50	-25.39	-	-	peak
4	162.0197	29.11	-8.10	21.01	43.50	-22.49	-	-	peak
5	461.6313	29.56	-5.09	24.47	46.00	-21.53	-	-	peak
6	749.6761	29.49	0.17	29.66	46.00	-16.34	-	-	peak

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



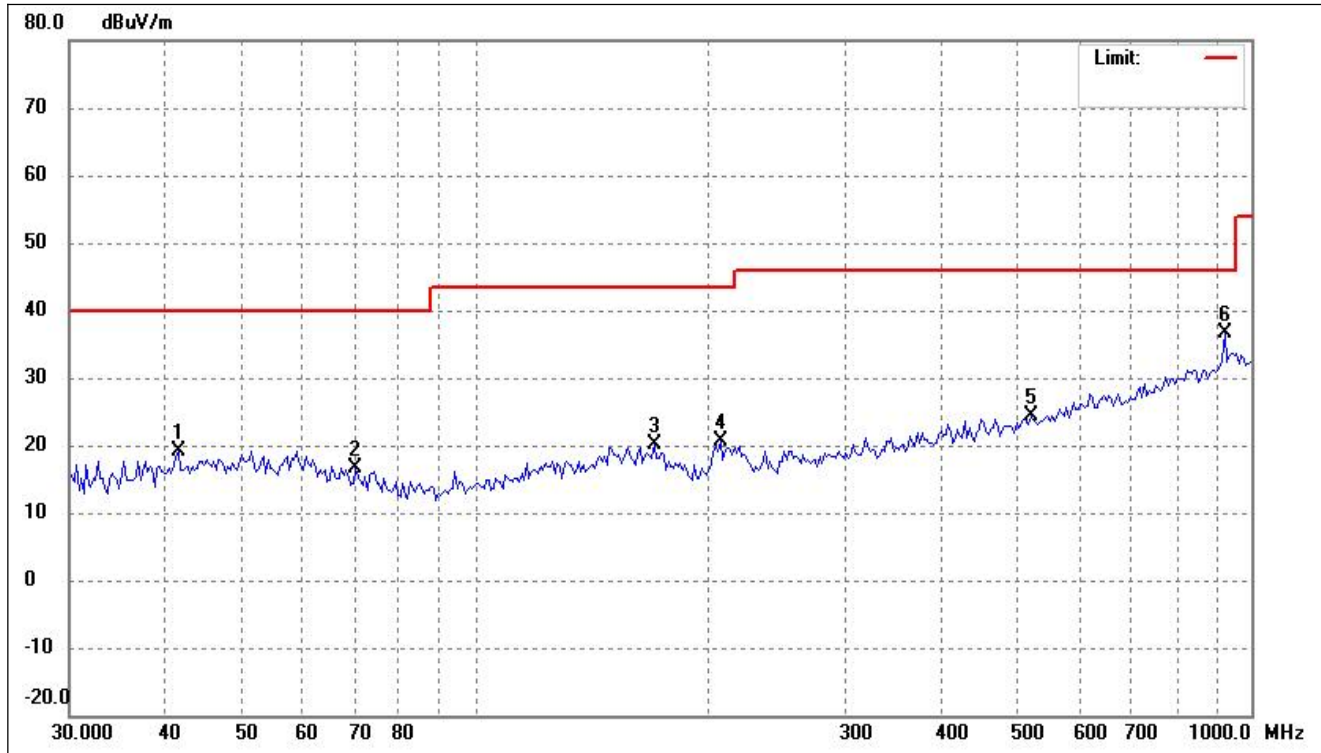
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	43.8452	28.84	-7.96	20.88	40.00	-19.12	-	-	peak
2	60.1528	27.15	-8.46	18.69	40.00	-21.31	-	-	peak
3	149.9676	28.22	-8.04	20.18	43.50	-23.32	-	-	peak
4	217.6437	32.34	-11.52	20.82	46.00	-25.18	-	-	peak
5	498.7303	29.35	-4.82	24.53	46.00	-21.47	-	-	peak
6	925.6132	33.41	2.72	36.13	46.00	-9.87	-	-	peak

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



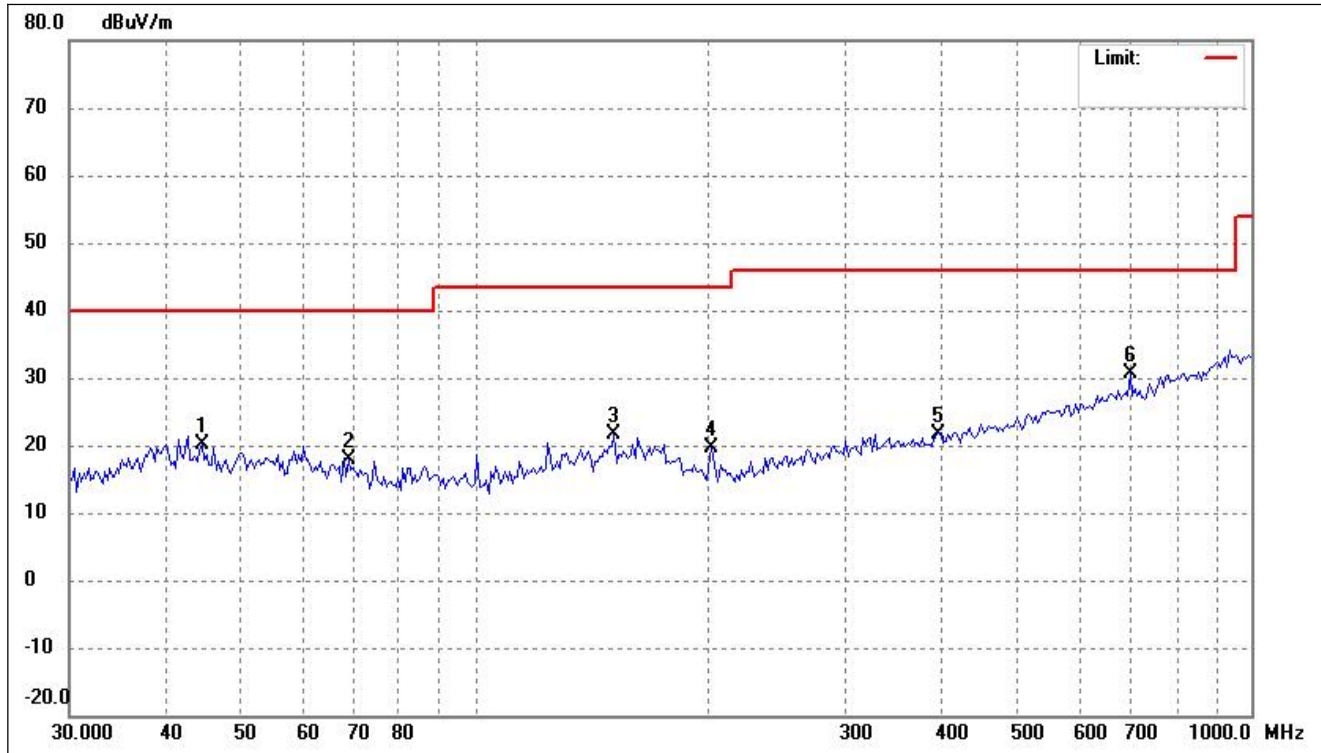
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	40.8699	28.68	-7.95	20.73	40.00	-19.27	-	-	peak
2	89.7866	31.77	-12.59	19.18	43.50	-24.32	-	-	peak
3	151.0252	29.07	-8.05	21.02	43.50	-22.48	-	-	peak
4	255.8226	28.85	-9.47	19.38	46.00	-26.62	-	-	peak
5	546.4368	28.89	-3.65	25.24	46.00	-20.76	-	-	peak
6	925.6132	31.56	2.72	34.28	46.00	-11.72	-	-	peak

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



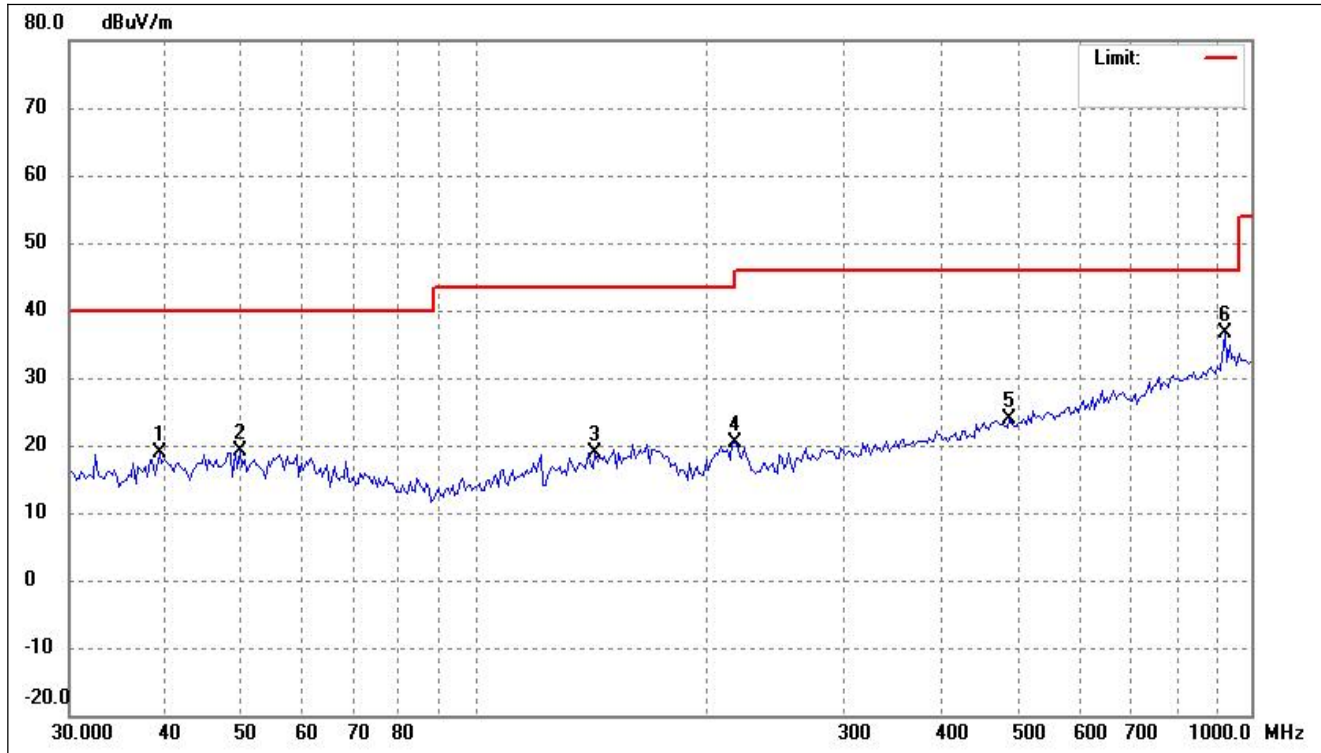
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	41.4483	27.12	-7.96	19.16	40.00	-20.84	-	-	peak
2	70.2096	26.99	-10.30	16.69	40.00	-23.31	-	-	peak
3	170.1888	28.42	-8.34	20.08	43.50	-23.42	-	-	peak
4	207.1968	32.23	-11.55	20.68	43.50	-22.82	-	-	peak
5	520.2079	28.78	-4.41	24.37	46.00	-21.63	-	-	peak
6	925.6132	34.01	2.72	36.73	46.00	-9.27	-	-	peak

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



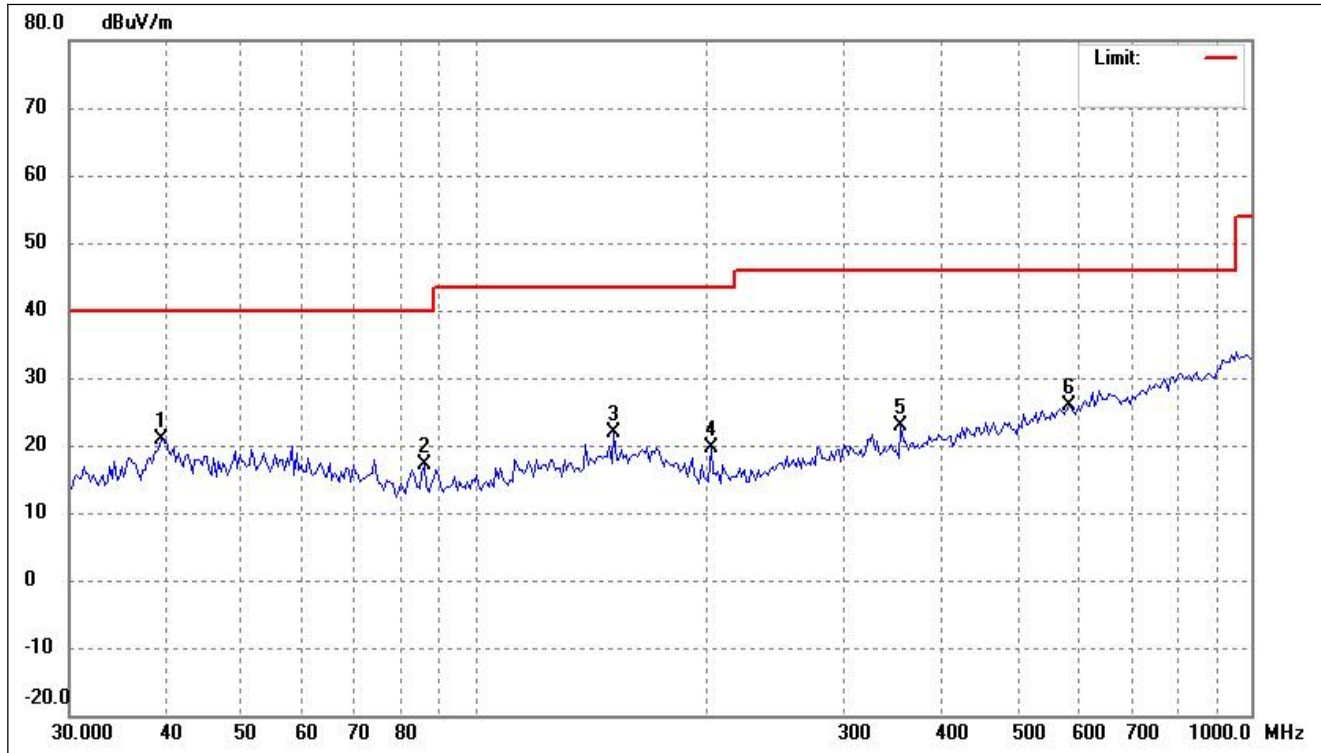
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	44.4657	28.06	-7.96	20.10	40.00	-19.90	-	-	peak
2	68.7450	28.01	-10.03	17.98	40.00	-22.02	-	-	peak
3	151.0252	29.79	-8.05	21.74	43.50	-21.76	-	-	peak
4	201.4539	31.03	-11.42	19.61	43.50	-23.89	-	-	peak
5	392.7376	28.11	-6.36	21.75	46.00	-24.25	-	-	peak
6	698.8035	31.70	-1.11	30.59	46.00	-15.41	-	-	peak

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



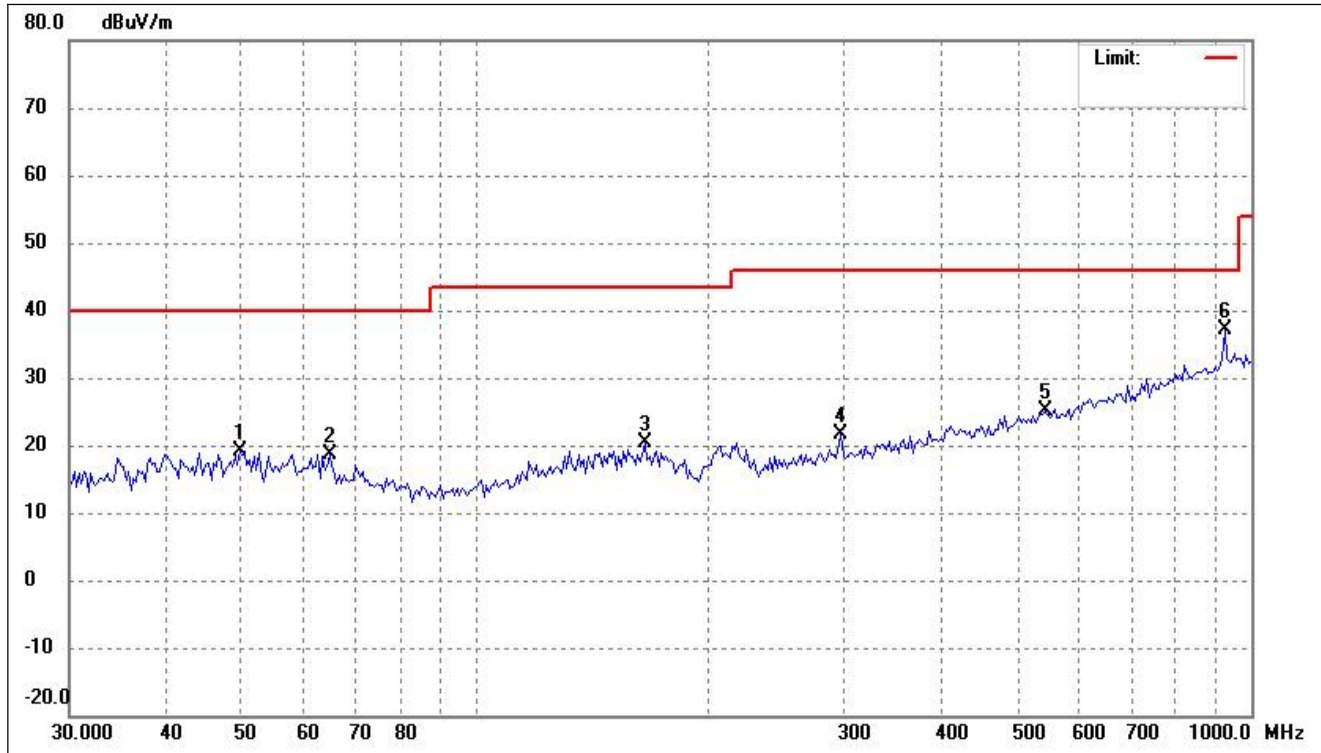
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	39.1825	26.89	-8.12	18.77	40.00	-21.23	-	-	peak
2	49.7571	26.67	-7.59	19.08	40.00	-20.92	-	-	peak
3	142.7692	27.59	-8.66	18.93	43.50	-24.57	-	-	peak
4	216.1197	31.99	-11.55	20.44	46.00	-25.56	-	-	peak
5	488.3263	28.69	-4.90	23.79	46.00	-22.21	-	-	peak
6	925.6132	33.97	2.72	36.69	46.00	-9.31	-	-	peak

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



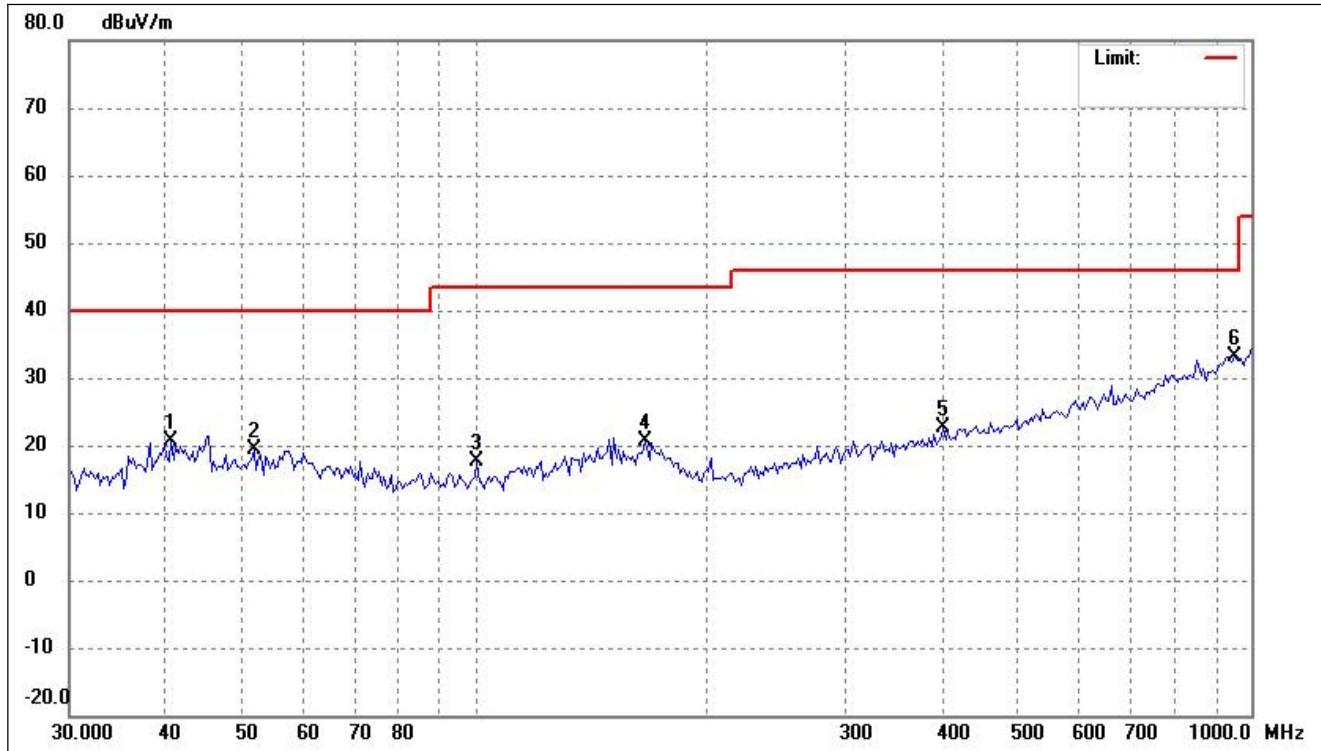
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	39.4588	28.92	-8.07	20.85	40.00	-19.15	-	-	peak
2	86.0796	29.68	-12.53	17.15	40.00	-22.85	-	-	peak
3	151.0252	29.84	-8.05	21.79	43.50	-21.71	-	-	peak
4	201.4539	31.12	-11.42	19.70	43.50	-23.80	-	-	peak
5	353.4472	29.86	-7.00	22.86	46.00	-23.14	-	-	peak
6	582.1122	28.64	-2.68	25.96	46.00	-20.04	-	-	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	49.7571	26.71	-7.59	19.12	40.00	-20.88	-	-	peak
2	64.9869	27.87	-9.33	18.54	40.00	-21.46	-	-	peak
3	165.4716	28.54	-8.19	20.35	43.50	-23.15	-	-	peak
4	296.5023	29.60	-7.98	21.62	46.00	-24.38	-	-	peak
5	542.6104	29.02	-3.78	25.24	46.00	-20.76	-	-	peak
6	925.6132	34.39	2.72	37.11	46.00	-8.89	-	-	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	40.5837	28.56	-7.96	20.60	40.00	-19.40	-	-	peak
2	51.8999	27.23	-7.79	19.44	40.00	-20.56	-	-	peak
3	100.4712	29.62	-11.95	17.67	43.50	-25.83	-	-	peak
4	165.4716	28.71	-8.19	20.52	43.50	-22.98	-	-	peak
5	401.1050	28.85	-6.24	22.61	46.00	-23.39	-	-	peak
6	952.0001	29.85	3.31	33.16	46.00	-12.84	-	-	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.

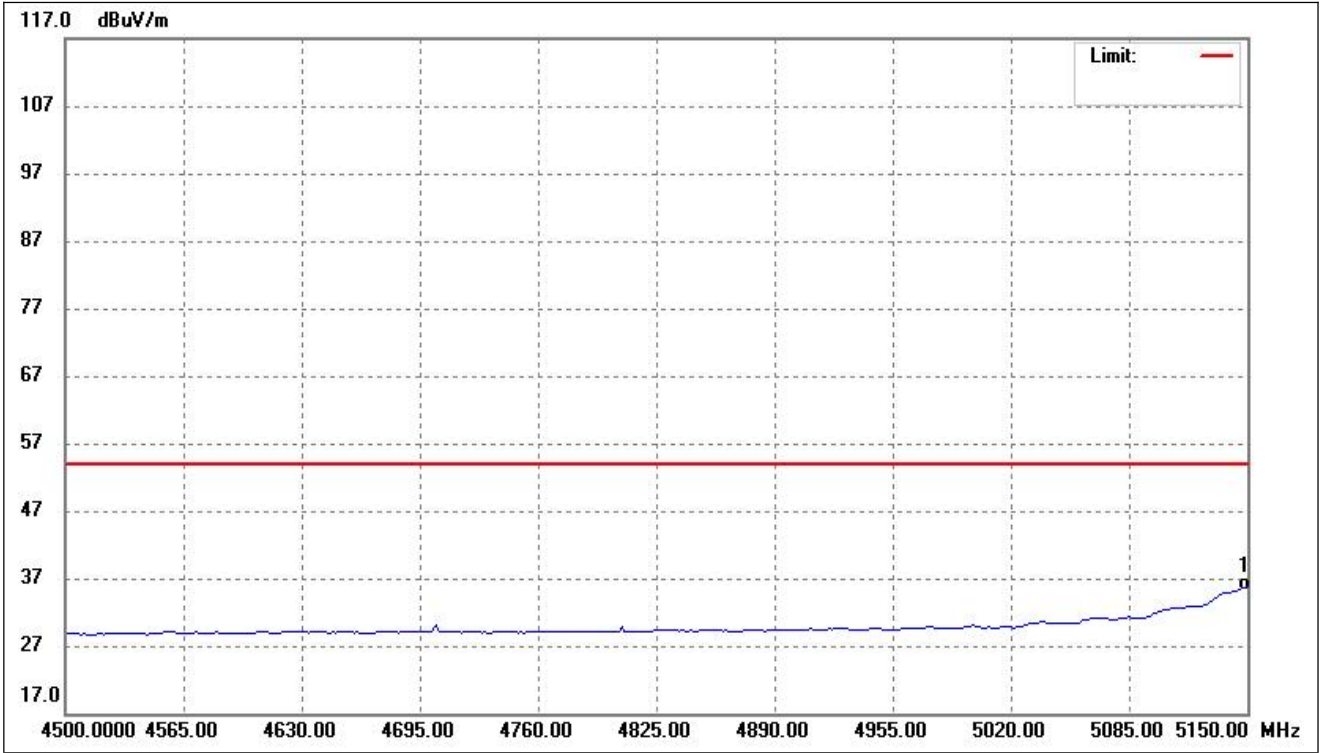
- Spurious Emission above 1GHz
- Antenna 1(worst case)

802.11a- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



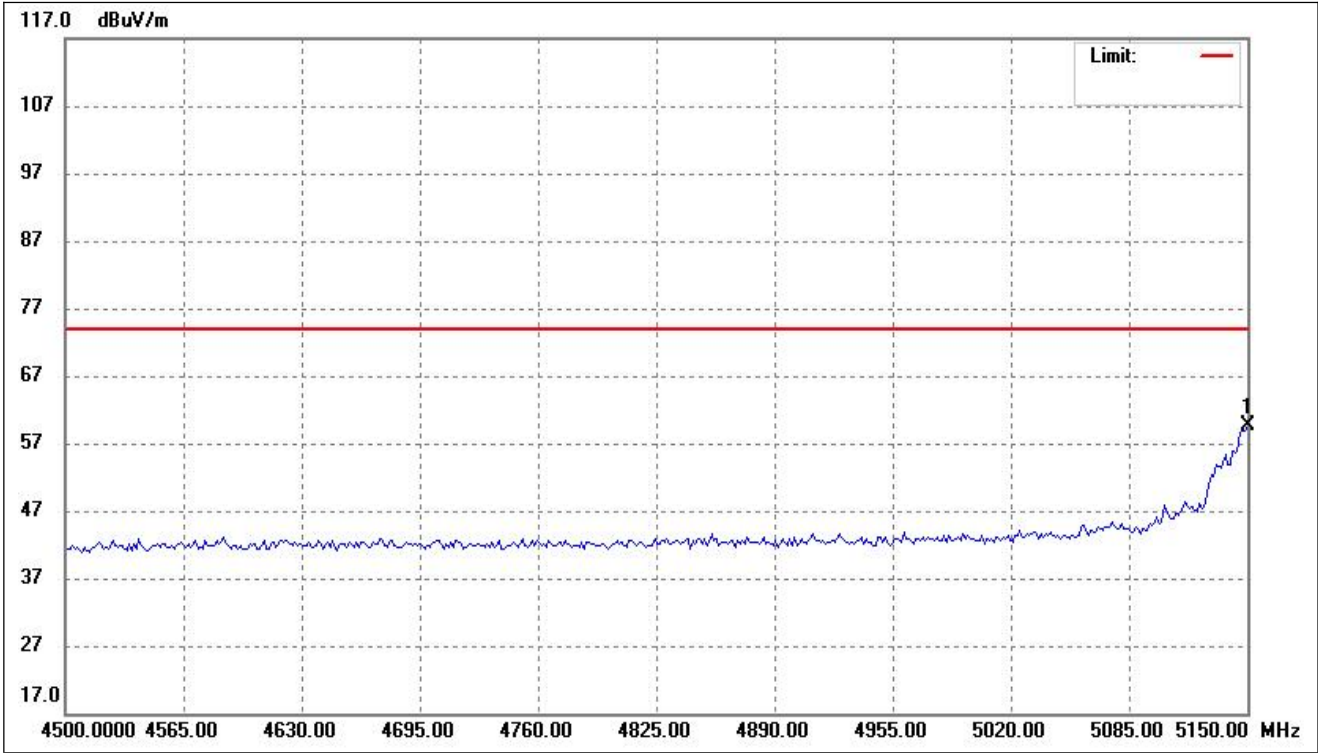
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	5150.000	66.12	-12.53	53.59	74.00	-20.41	-	-	peak

802.11a- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



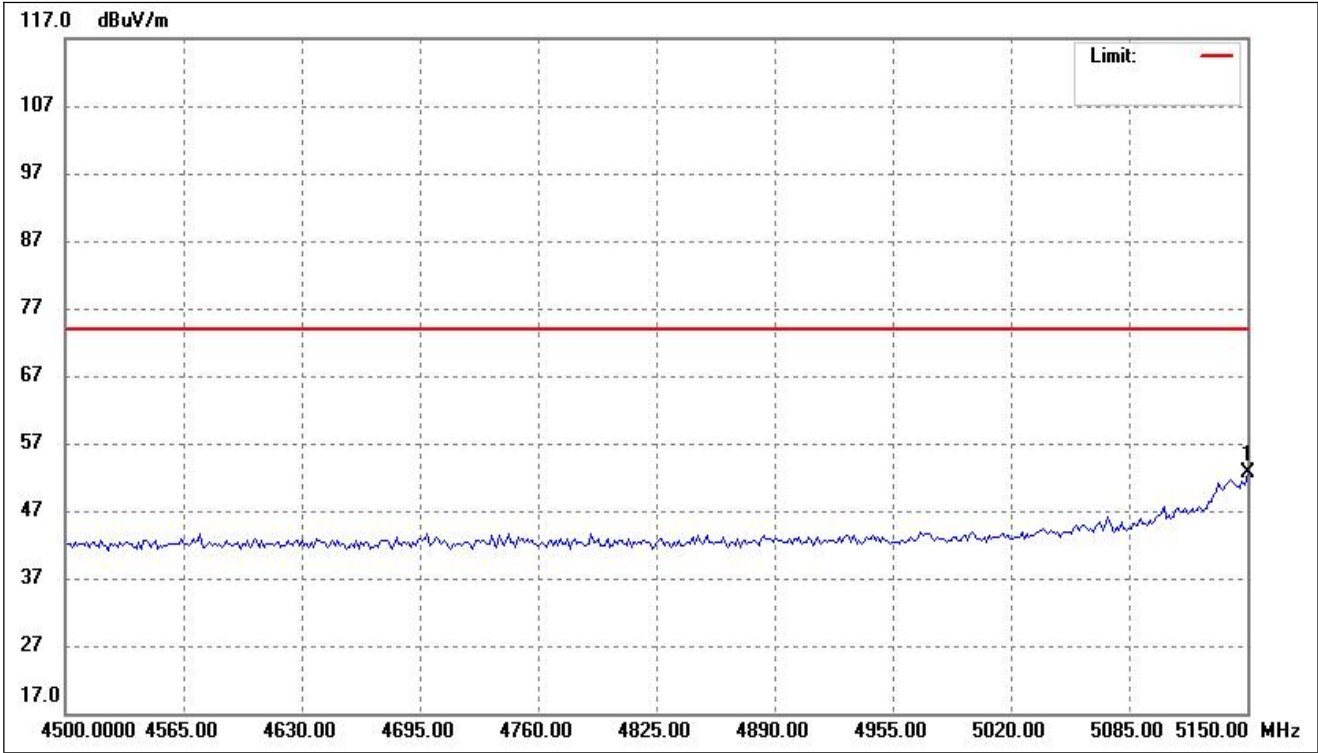
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	48.65	-12.53	36.12	54.00	-17.88	-	-	AVG

802.11n-HT20- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



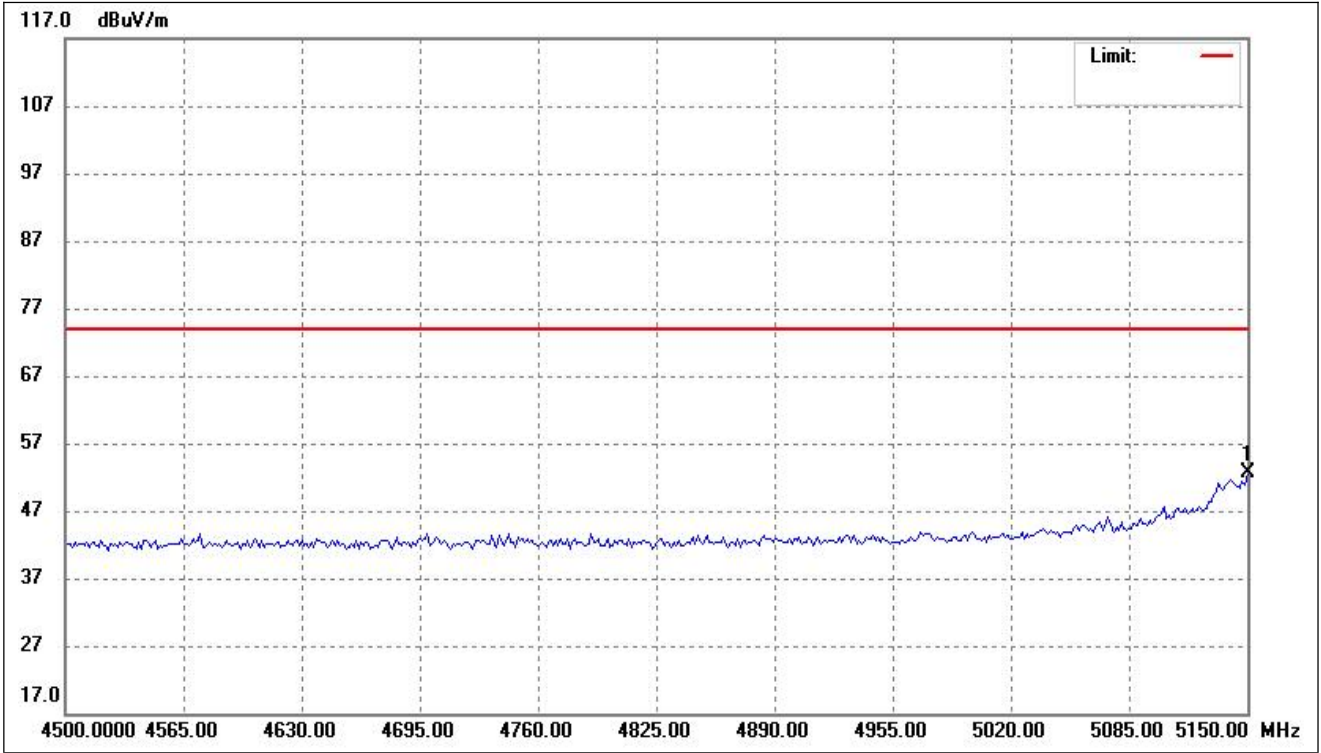
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	72.09	-12.53	59.56	74.00	-14.44	-	-	peak

802.11n-HT20- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



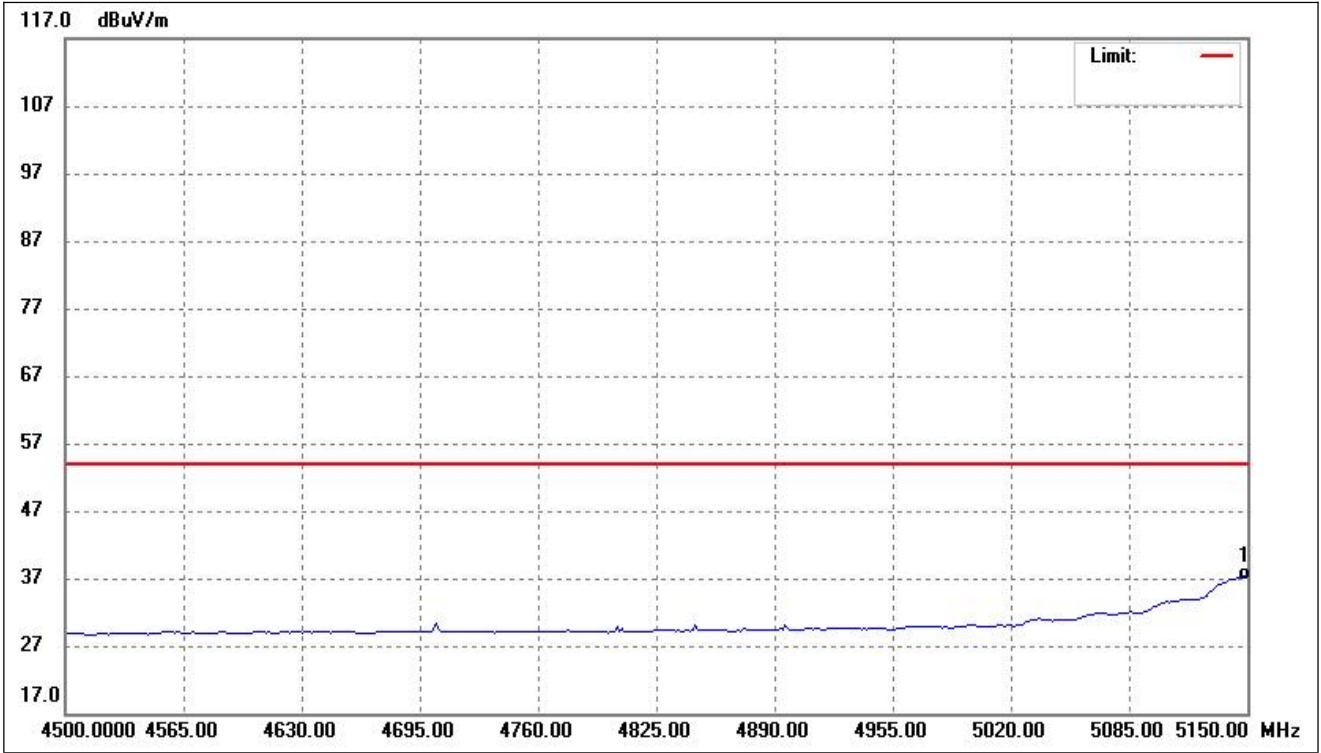
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	65.17	-12.53	52.64	74.00	-21.36	-	-	AVG

802.11ac-VHT20- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



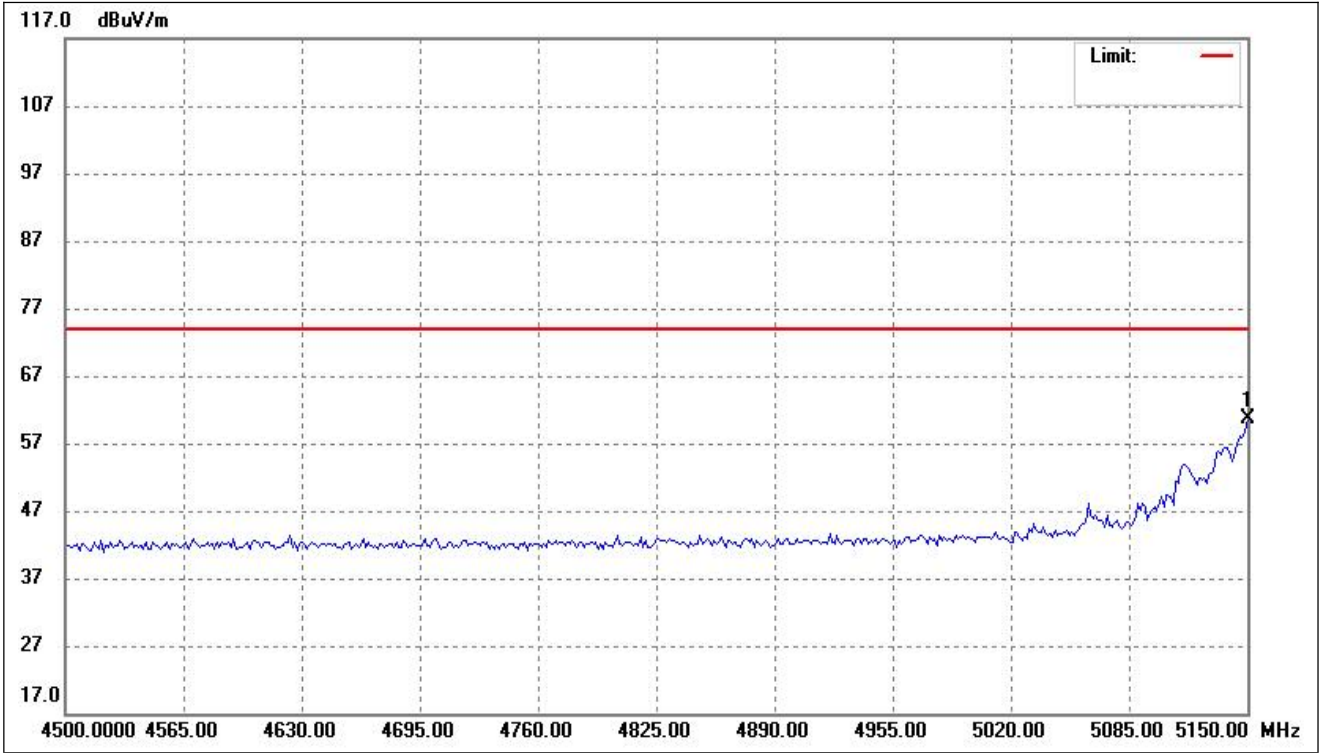
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	65.17	-12.53	52.64	74.00	-21.36	-	-	peak

802.11ac-VHT20- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



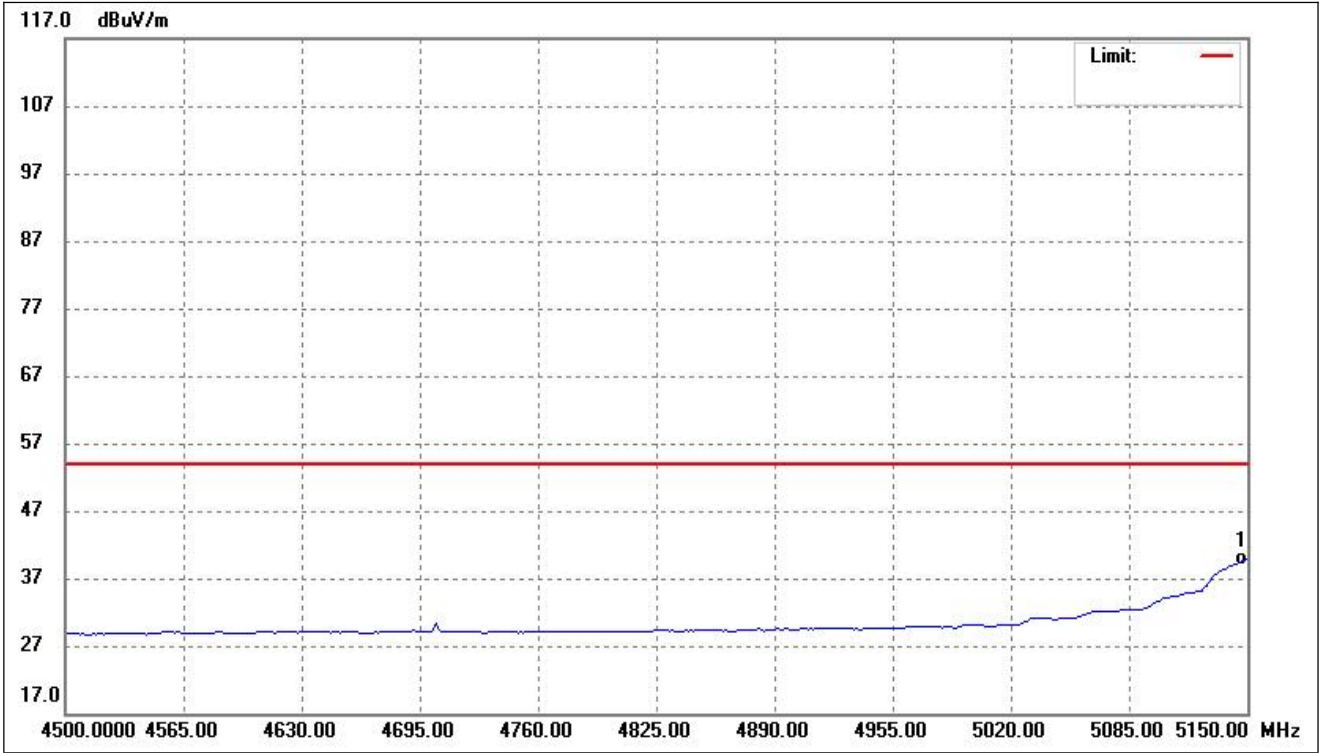
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	50.20	-12.53	37.67	54.00	-16.33	-	-	AVG

802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



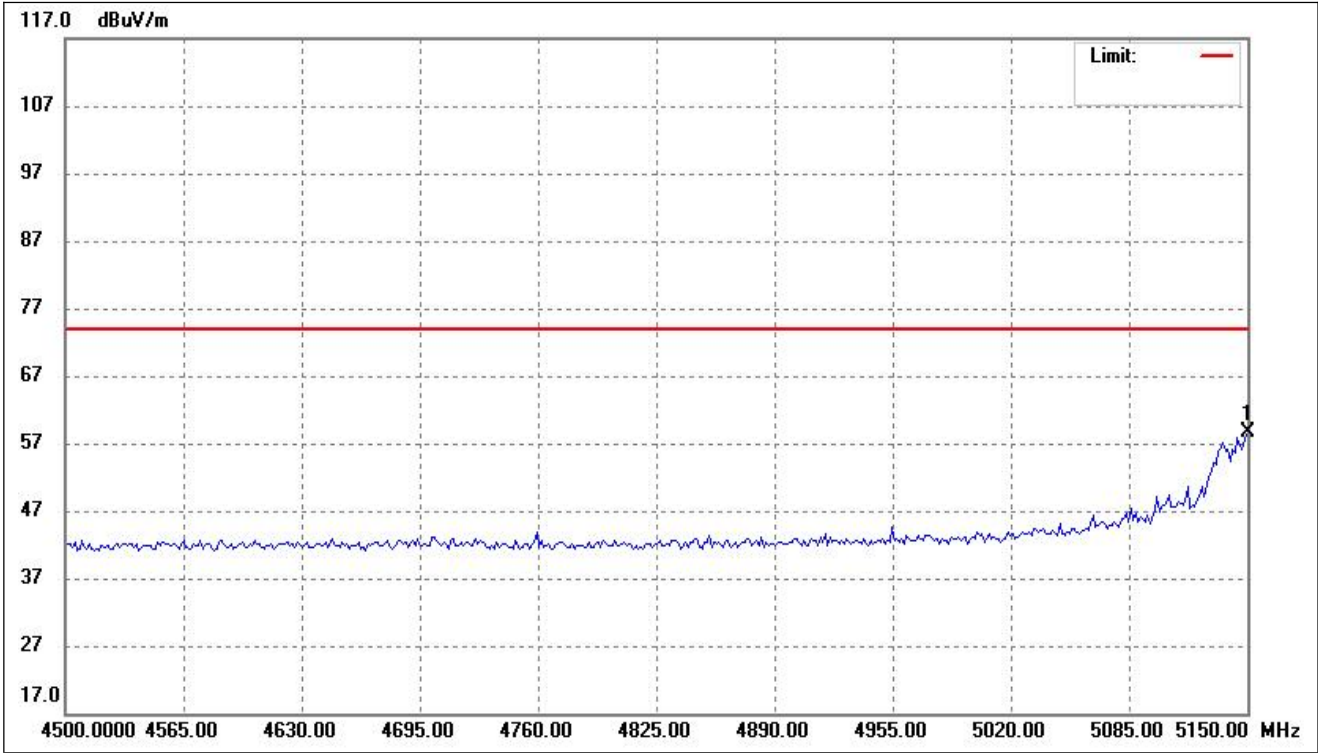
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	73.10	-12.53	60.57	74.00	-13.43	-	-	peak

802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



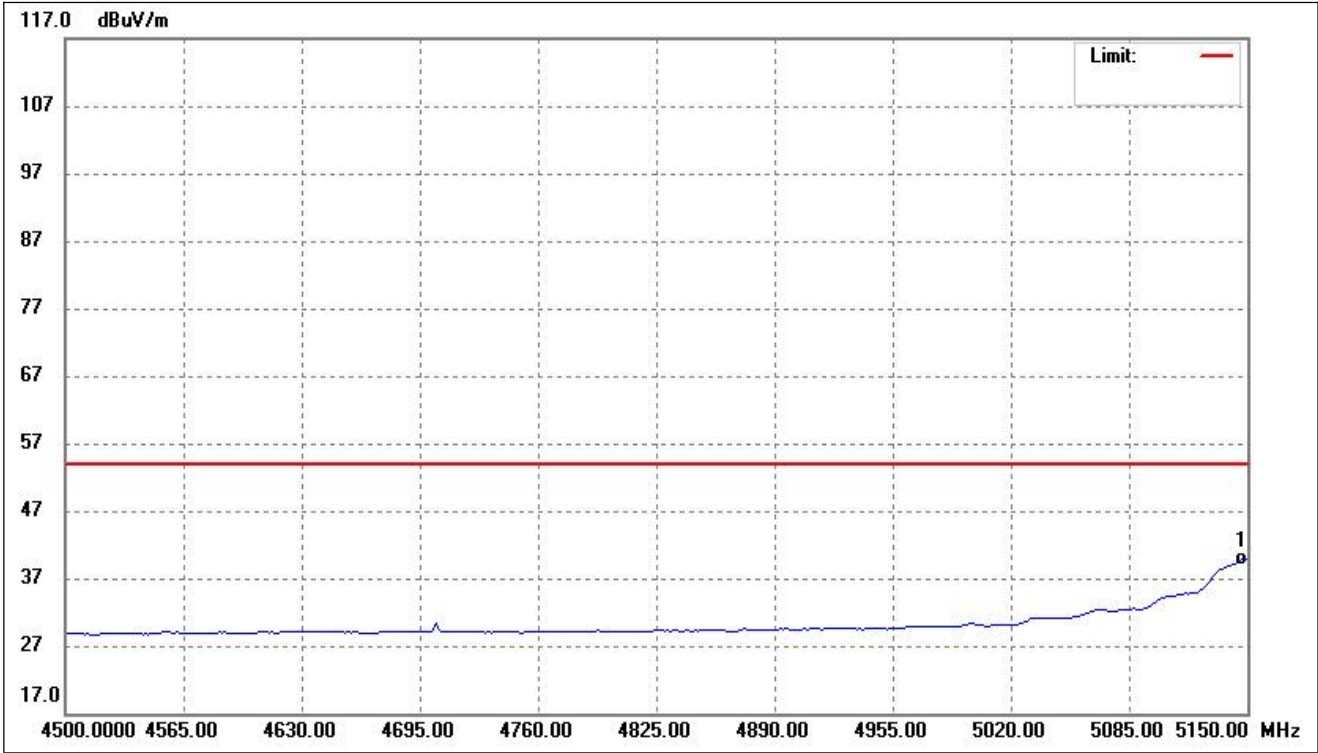
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	52.34	-12.53	39.81	54.00	-14.19	-	-	AVG

802.11ac-VHT40- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



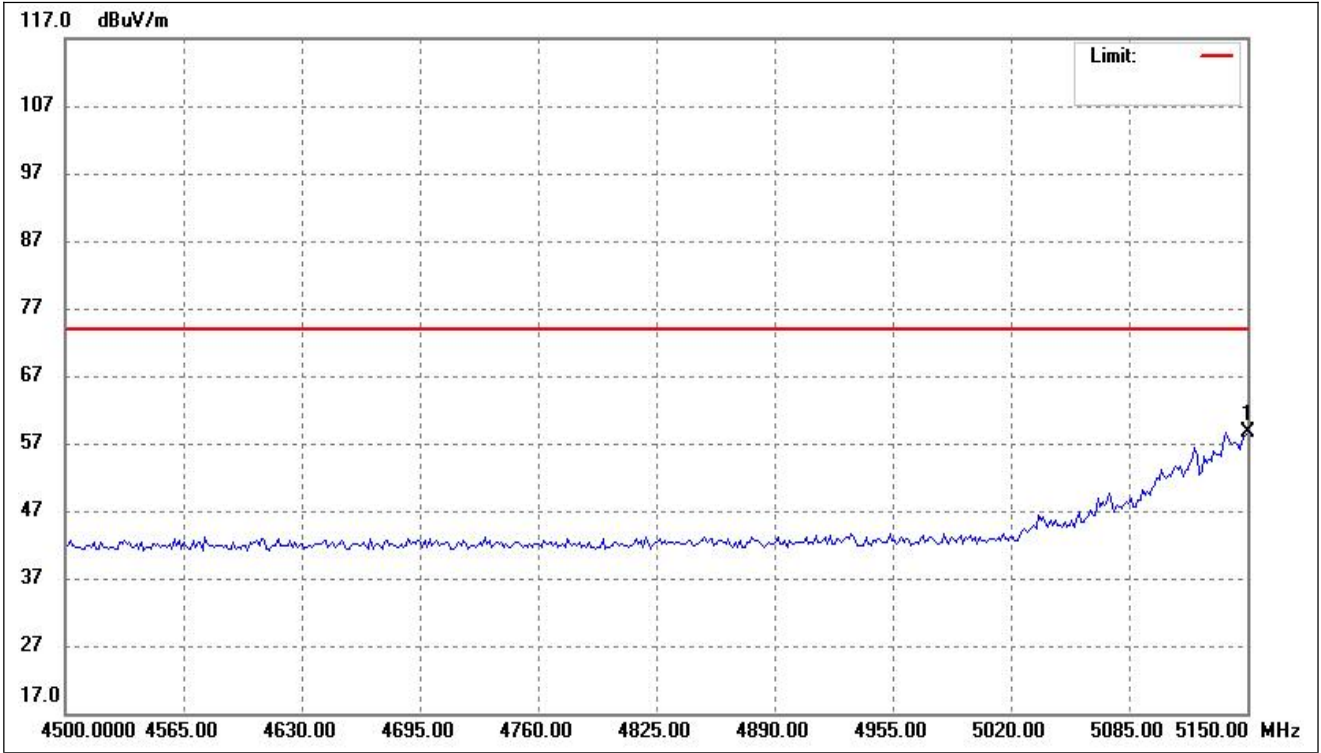
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	71.28	-12.53	58.75	74.00	-15.25	-	-	peak

802.11ac-VHT40- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



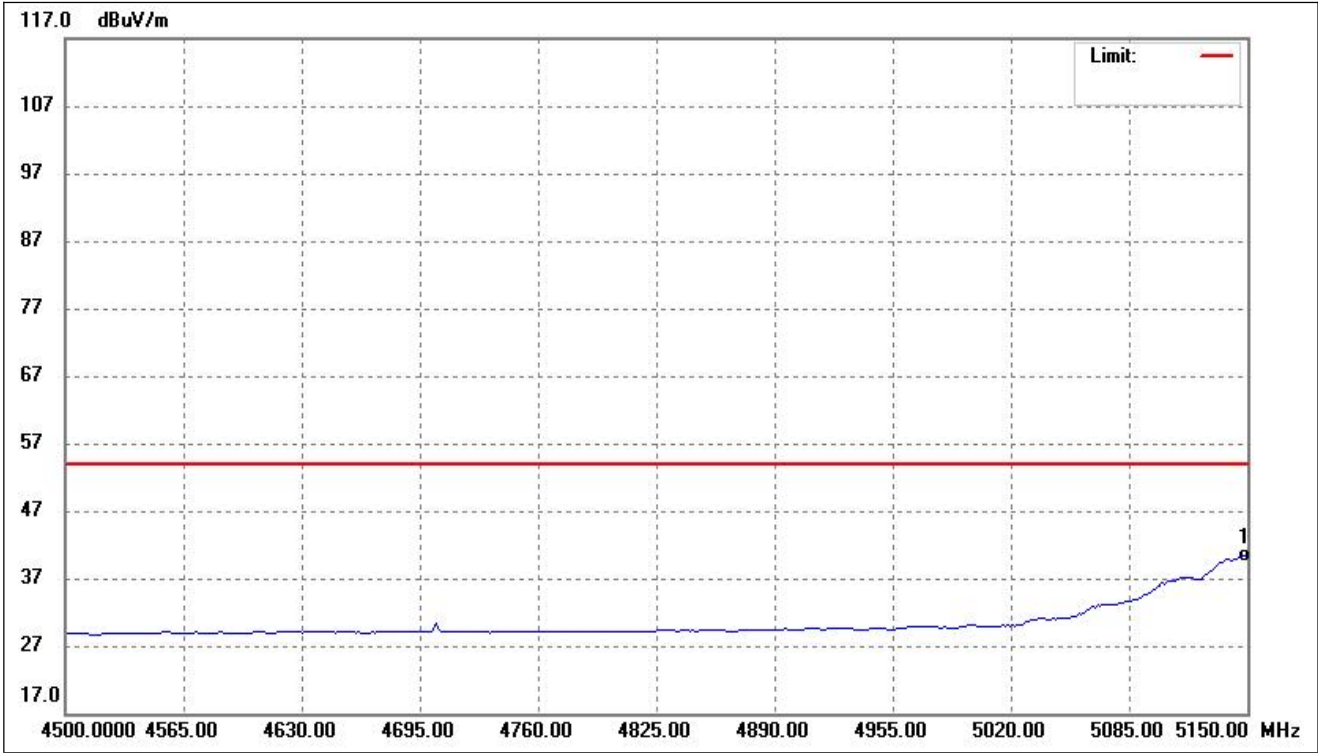
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	52.46	-12.53	39.93	54.00	-14.07	-	-	AVG

802.11ac-VHT80- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	71.23	-12.53	58.70	74.00	-15.30	-	-	peak

802.11ac-VHT80- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	52.95	-12.53	40.42	54.00	-13.58	-	-	AVG

Note: The Restricted Bandedge was tested in Horizontal /Vertical and the worst case position data was reported.

Remark: ‘-’Means’ the test Degree and Height is 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, 5.725-5.850GHz (802.11a)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5180MHz)							
10360	57.45	7.11	64.56	74	-9.44	H	PK
10360	41.75	7.11	48.86	54	-5.14	H	AV
10360	58.09	7.11	65.20	74	-8.80	V	PK
10360	41.27	7.11	48.38	54	-5.62	V	AV
Middle Channel (5200MHz)							
10400	57.78	7.22	65.00	74	-9.00	H	PK
10400	41.19	7.22	48.41	54	-5.59	H	AV
10400	57.22	7.22	64.44	74	-9.56	V	PK
10400	41.53	7.22	48.75	54	-5.25	V	AV
High Channel (5240MHz)							
10480	58.29	7.69	65.98	74	-8.02	H	PK
10480	38.24	7.69	45.93	54	-8.07	H	AV
10480	58.59	7.69	66.28	74	-7.72	V	PK
10480	38.52	7.69	46.21	54	-7.79	V	AV

- Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-43.59	-27
Highest	Above 5350	-42.17	-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	58.30	7.11	65.41	74	-8.59	H	PK
10360	41.60	7.11	48.71	54	-5.29	H	AV
10360	56.41	7.11	63.52	74	-10.48	V	PK
10360	39.64	7.11	46.75	54	-7.25	V	AV
Middle Channel (5200MHz)							
10400	57.54	7.22	64.76	74	-9.24	H	PK
10400	38.50	7.22	45.72	54	-8.28	H	AV
10400	57.66	7.22	64.88	74	-9.12	V	PK
10400	39.44	7.22	46.66	54	-7.34	V	AV
High Channel (5240MHz)							
10480	55.29	7.69	62.98	74	-11.02	H	PK
10480	39.27	7.69	46.96	54	-7.04	H	AV
10480	57.65	7.69	65.34	74	-8.66	V	PK
10480	40.96	7.69	48.65	54	-5.35	V	AV

- Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-38.70	-27
Highest	Above 5350	-39.62	-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	58.31	7.11	65.42	74	-8.58	H	PK
10360	39.48	7.11	46.59	54	-7.41	H	AV
10360	56.13	7.11	63.24	74	-10.76	V	PK
10360	39.23	7.11	46.34	54	-7.66	V	AV
Middle Channel (5200MHz)							
10400	58.52	7.22	65.74	74	-8.26	H	PK
10400	40.97	7.22	48.19	54	-5.81	H	AV
10400	58.75	7.22	65.97	74	-8.03	V	PK
10400	41.82	7.22	49.04	54	-4.96	V	AV
High Channel (5240MHz)							
10480	56.11	7.69	63.80	74	-10.20	H	PK
10480	41.20	7.69	48.89	54	-5.11	H	AV
10480	57.09	7.69	64.78	74	-9.22	V	PK
10480	41.95	7.69	49.64	54	-4.36	V	AV

- Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-38.83	-27
Highest	Above 5350	-39.71	-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	56.70	7.89	64.59	74	-9.41	H	PK
10380	40.73	7.89	48.62	54	-5.38	H	AV
10380	58.48	7.89	66.37	74	-7.63	V	PK
10380	40.18	7.89	48.07	54	-5.93	V	AV
High Channel (5230MHz)							
10460	56.38	7.97	64.35	74	-9.65	H	PK
10460	38.14	7.97	46.11	54	-7.89	H	AV
10460	55.12	7.97	63.09	74	-10.91	V	PK
10460	38.59	7.97	46.56	54	-7.44	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	-37.45	-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	57.81	7.89	65.70	74	-8.30	H	PK
10380	39.90	7.89	47.79	54	-6.21	H	AV
10380	55.35	7.89	63.24	74	-10.76	V	PK
10380	39.09	7.89	46.98	54	-7.02	V	AV
High Channel (5230MHz)							
10460	55.49	7.97	63.46	74	-10.54	H	PK
10460	40.09	7.97	48.06	54	-5.94	H	AV
10460	57.29	7.97	65.26	74	-8.74	V	PK
10460	40.92	7.97	48.89	54	-5.11	V	AV

- Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-38.13	-27
Highest	Above 5350	-37.62	-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	57.27	7.53	64.80	74	-9.20	H	PK
10420	40.63	7.53	48.16	54	-5.84	H	AV
10420	58.11	7.53	65.64	74	-8.36	H	PK
10420	41.37	7.53	48.90	54	-5.10	H	AV

- Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-37.34	-27
Highest	Above 5350	-36.57	-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.

9. Frequency Stability

9.1 Standard Applicable

According to §15.407(g), 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.

9.2 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode.

9.3 Summary of Test Results/Plots

Please refer to Appendix D

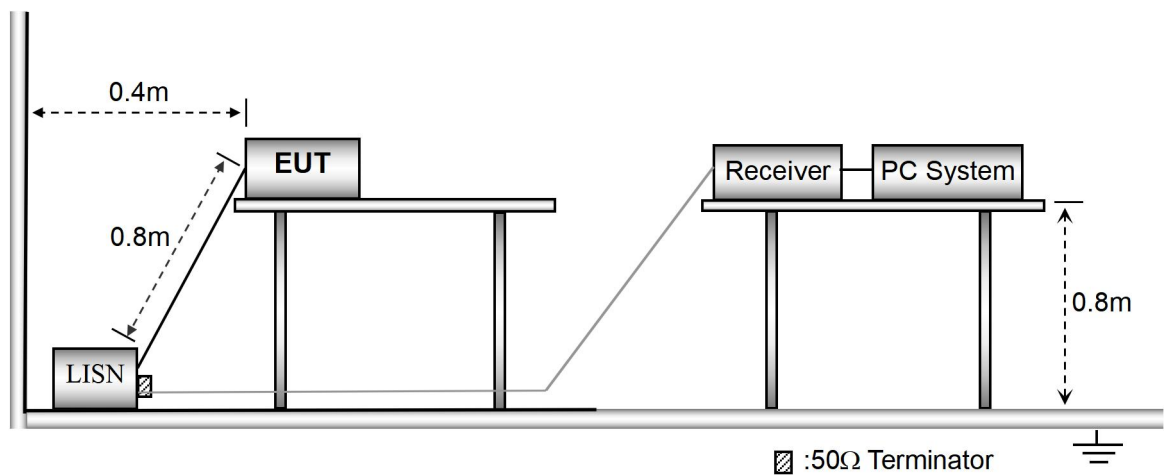
10 Conducted Emissions

10.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 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.

10.2 Basic Test Setup Block Diagram



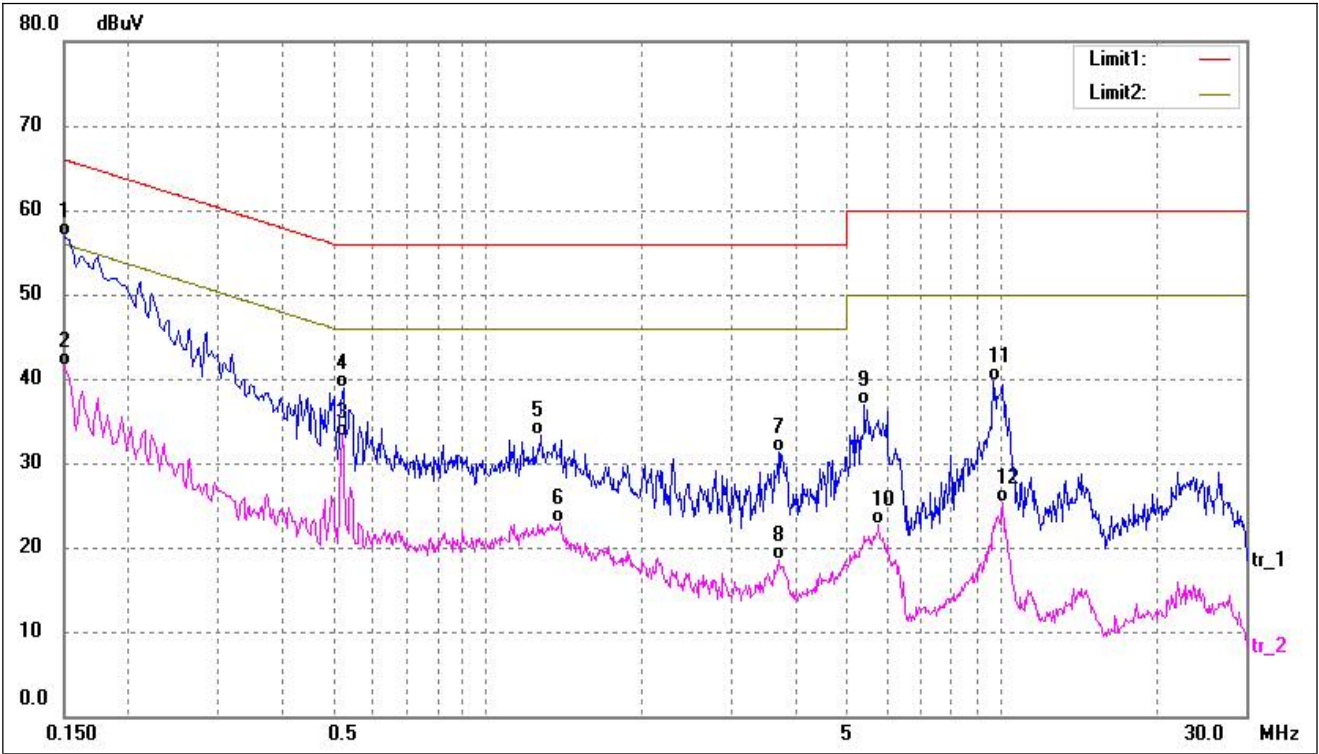
10.3 Test Receiver Setup

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

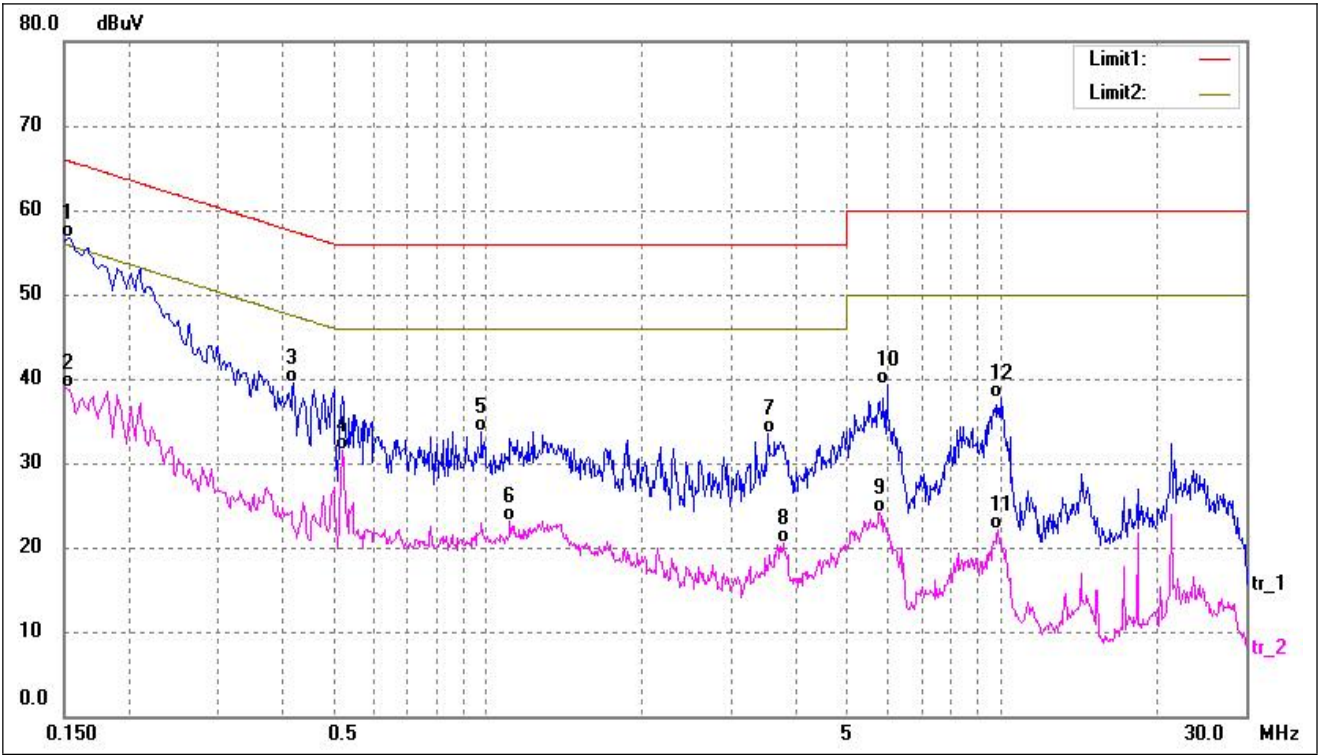
10.4 Summary of Test Results/Plots

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*	0.1499	47.12	9.77	56.89	66.00	-9.11	QP
2	0.1499	31.72	9.77	41.49	56.00	-14.51	AVG
3	0.5220	23.46	9.74	33.20	46.00	-12.80	AVG
4	0.5260	29.21	9.73	38.94	56.00	-17.06	QP
5	1.2700	23.59	9.66	33.25	56.00	-22.75	QP
6	1.3819	13.31	9.65	22.96	46.00	-23.04	AVG
7	3.6939	21.73	9.65	31.38	56.00	-24.62	QP
8	3.6939	8.78	9.65	18.43	46.00	-27.57	AVG
9	5.4299	27.27	9.72	36.99	60.00	-23.01	QP
10	5.7779	12.91	9.74	22.65	50.00	-27.35	AVG
11	9.6580	29.79	9.86	39.65	60.00	-20.35	QP
12	10.0820	15.39	9.87	25.26	50.00	-24.74	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*	0.1539	46.99	9.75	56.74	65.78	-9.04	QP
2	0.1539	29.11	9.75	38.86	55.78	-16.92	AVG
3	0.4179	29.78	9.70	39.48	57.49	-18.01	QP
4	0.5220	21.73	9.74	31.47	46.00	-14.53	AVG
5	0.9779	24.10	9.67	33.77	56.00	-22.23	QP
6	1.1100	13.52	9.66	23.18	46.00	-22.82	AVG
7	3.5259	23.81	9.65	33.46	56.00	-22.54	QP
8	3.7700	10.85	9.66	20.51	46.00	-25.49	AVG
9	5.8179	14.38	9.74	24.12	50.00	-25.88	AVG
10	6.0220	29.57	9.75	39.32	60.00	-20.68	QP
11	9.8979	12.24	9.87	22.11	50.00	-27.89	AVG
12	9.9900	27.88	9.87	37.75	60.00	-22.25	QP

APPENDIX SUMMARY

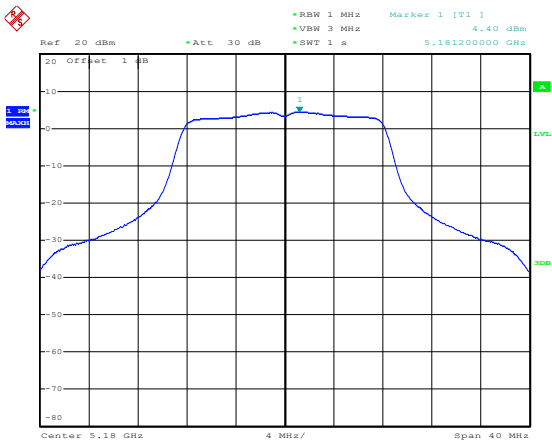
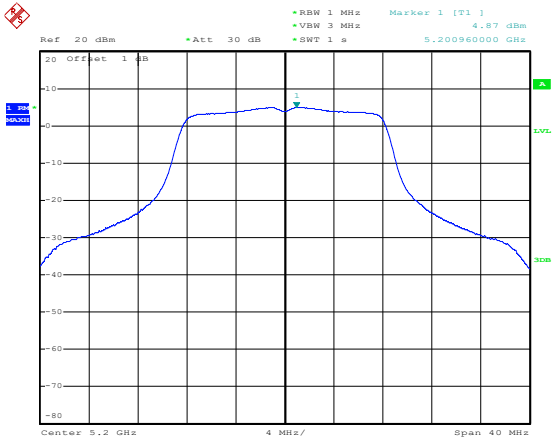
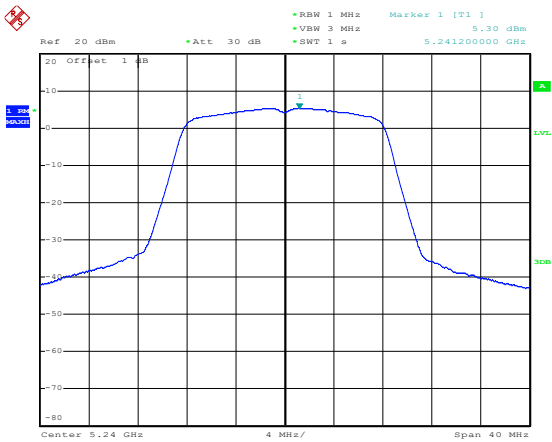
Project No.	WTH24X11267266W	Test Engineer	Timi Huang
Start date	2024/12/4	Finish date	2024/12/6
Temperature	24℃	Humidity	62%
RF specifications	U-NII		

APPENDIX	Description of Test Item	Result
A	Power Spectral Density	Compliant
B	Emission Bandwidth and Occupied Bandwidth	Compliant
C	Maximum Conducted Output Power	Compliant
D	Frequency Stability	Compliant

APPENDIX A

Power Spectral Density					
U-NII-1:5150-5250MHz					
Operating mode	Test Channel	ANT 1 dBm/MHz	ANT 2 dBm/MHz	Total dBm/MHz	Limit (dBm/MHz)
802.11a	5180	4.40	4.10	/	11
	5200	4.87	4.50	/	11
	5240	5.30	4.41	/	11
802.11n-HT20	5180	3.08	2.74	5.92	11
	5200	3.49	3.10	6.31	11
	5240	3.90	3.20	6.57	11
802.11n-HT40	5190	-0.14	0.01	2.95	11
	5230	0.09	0.16	3.14	11
802.11ac-VHT20	5180	3.03	2.86	5.96	11
	5200	3.52	3.12	6.33	11
	5240	3.94	2.92	6.47	11
802.11ac-VHT40	5190	-0.13	0.03	2.96	11
	5230	-0.00	0.09	3.06	11
802.11ac-VHT80	5210	-4.56	-4.64	-1.59	11

ANT 1
5150-5250MHz

802.11a-Low	 Date: 6.DEC.2024 14:17:30
802.11a-Middle	 Date: 6.DEC.2024 14:17:12
802.11a-High	 Date: 6.DEC.2024 14:16:57

802.11n-HT20-Low

802.11n-HT20-Middle

802.11n-HT20-High

The figure displays three spectral plots, each showing the power spectrum of a different 802.11n-HT20 channel. The plots are arranged vertically, corresponding to the 'Low', 'Middle', and 'High' frequency bands. Each plot has a y-axis representing power in dBm, ranging from -80 to 20, and an x-axis representing frequency in GHz, ranging from 5.18 to 5.24. The plots show a flat noise floor at approximately -80 dBm, with a sharp peak at the center frequency. The peak power is approximately -10 dBm. The plots are labeled '802.11n-HT20-Low', '802.11n-HT20-Middle', and '802.11n-HT20-High'.

Ref: 20 dBm *Att: 30 dB *RBW: 1 MHz *VBW: 3 MHz *SWT: 1 s Marker 1 [T1] 3.08 dBm 5.1836000 GHz

Center 5.18 GHz 4 MHz/ Span 40 MHz

Date: 6.DEC.2024 14:16:16

Ref: 20 dBm *Att: 30 dB *RBW: 1 MHz *VBW: 3 MHz *SWT: 1 s Marker 1 [T1] 3.49 dBm 5.1980000 GHz

Center 5.2 GHz 4 MHz/ Span 40 MHz

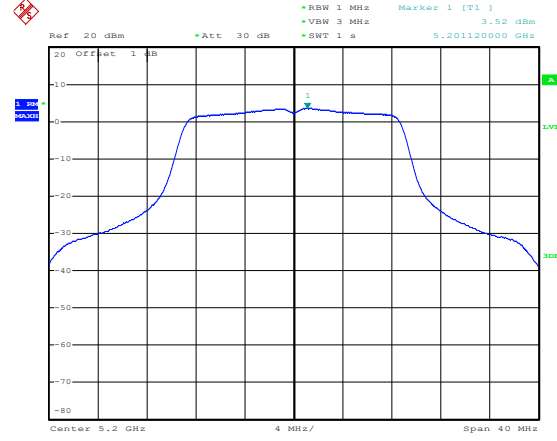
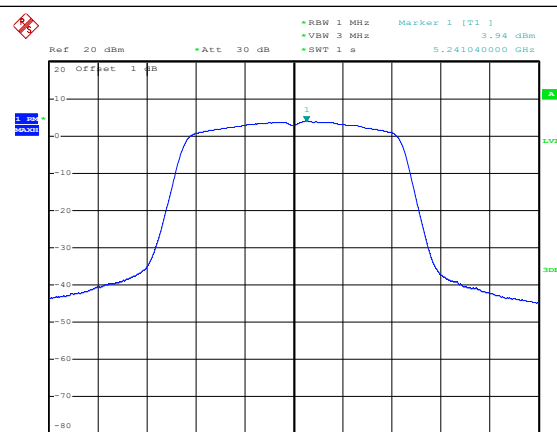
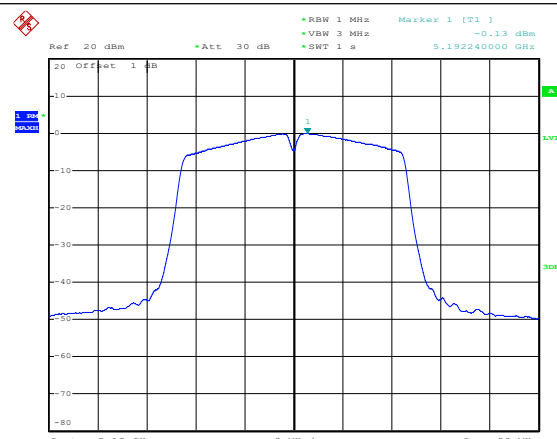
Date: 6.DEC.2024 14:16:31

Ref: 20 dBm *Att: 30 dB *RBW: 1 MHz *VBW: 3 MHz *SWT: 1 s Marker 1 [T1] 3.90 dBm 5.24096000 GHz

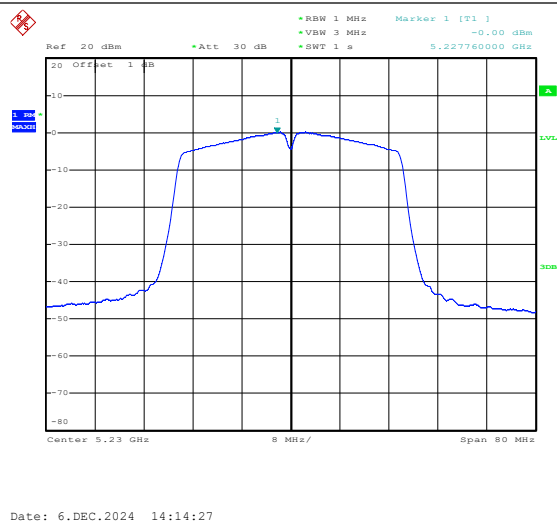
Center 5.24 GHz 4 MHz/ Span 40 MHz

Date: 6.DEC.2024 14:16:45

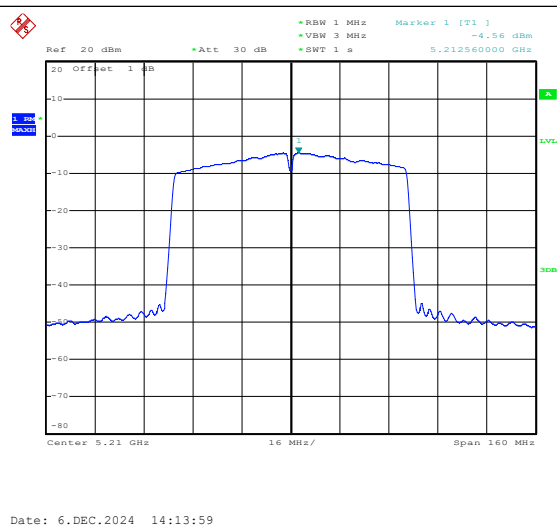
802.11n-HT40-Low	Ref: 20 dBm, Att: 30 dB, RBW: 1 MHz, VBW: 3 MHz, SMT: 1 s, Marker 1 [T1]: -0.14 dBm, Center: 5.19 GHz, Span: 80 MHz. Date: 6.DEC.2024 14:14:54
802.11n-HT40-High	Ref: 20 dBm, Att: 30 dB, RBW: 1 MHz, VBW: 3 MHz, SMT: 1 s, Marker 1 [T1]: 0.09 dBm, Center: 5.23 GHz, Span: 80 MHz. Date: 6.DEC.2024 14:15:12
802.11ac-VHT20-Low	Ref: 20 dBm, Att: 30 dB, RBW: 1 MHz, VBW: 3 MHz, SMT: 1 s, Marker 1 [T1]: 3.03 dBm, Center: 5.19 GHz, Span: 40 MHz. Date: 6.DEC.2024 14:16:02

802.11ac-VHT20-Middle	 Date: 6.DEC.2024 14:15:46
802.11ac-VHT20-High	 Date: 6.DEC.2024 14:15:29
802.11ac-VHT40-Low	 Date: 6.DEC.2024 14:14:42

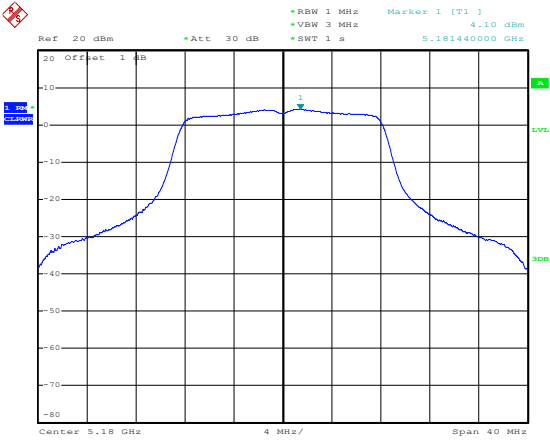
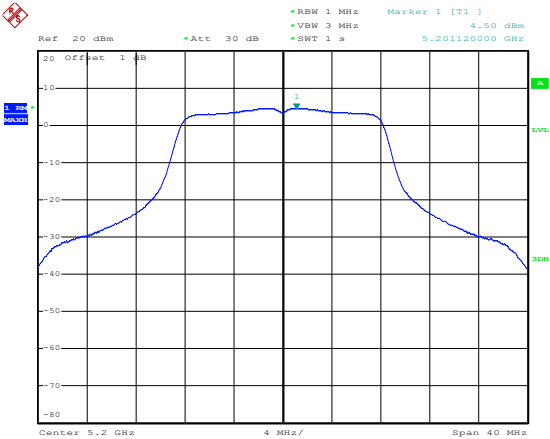
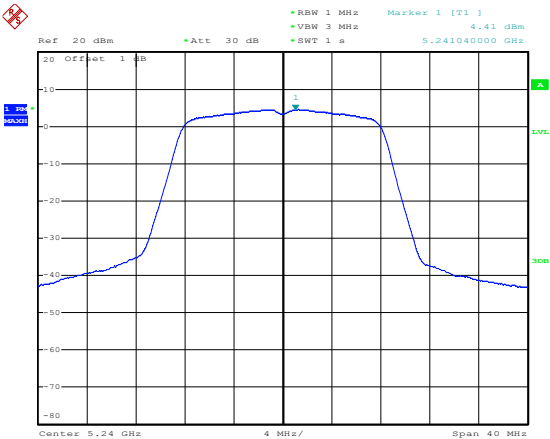
802.11ac-VHT40-High

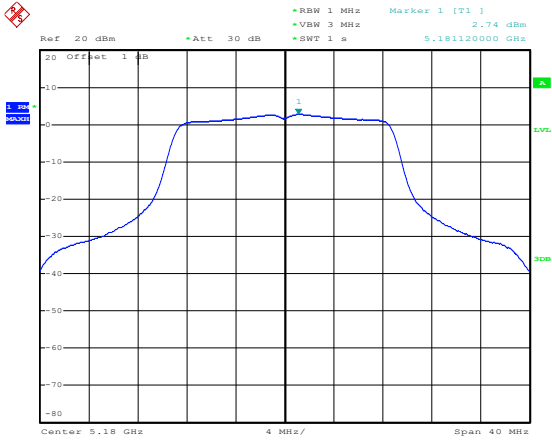
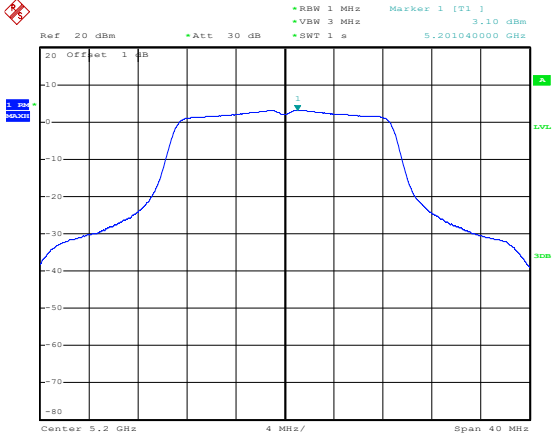
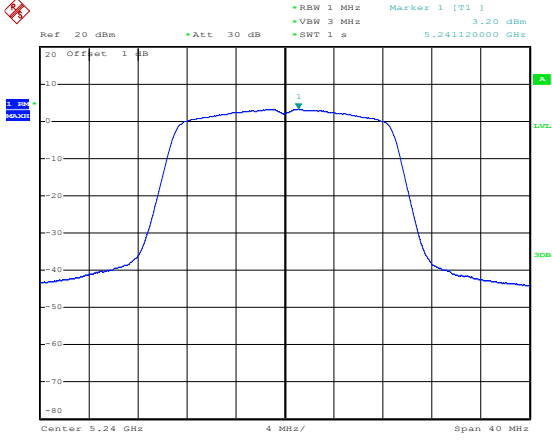


802.11ac-VHT80

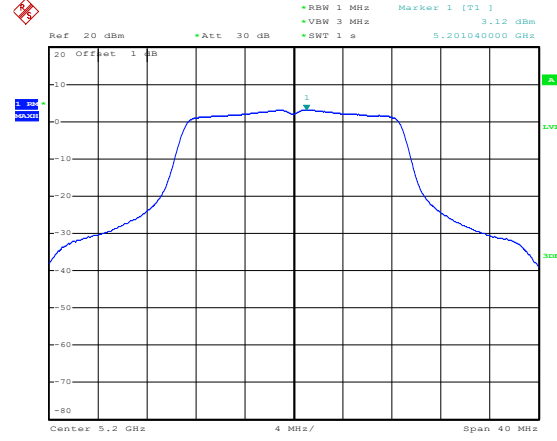
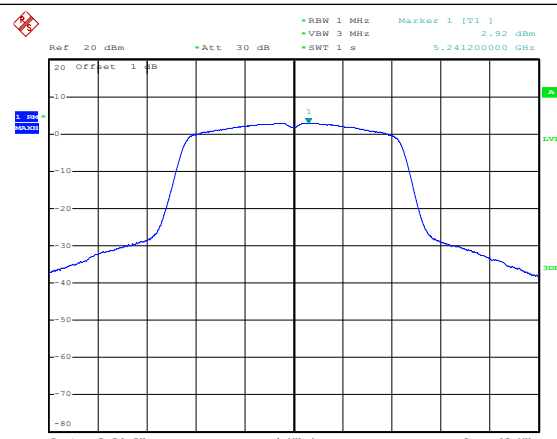
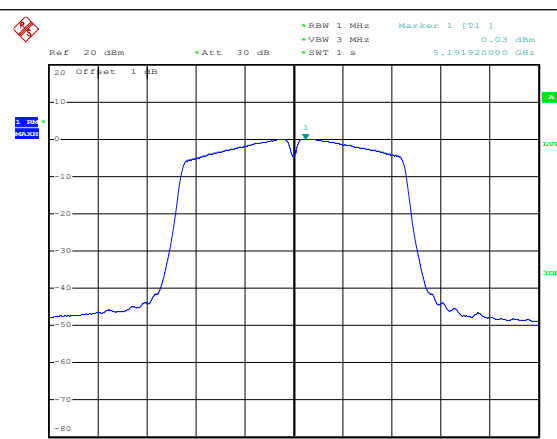


ANT 2
5150-5250MHz

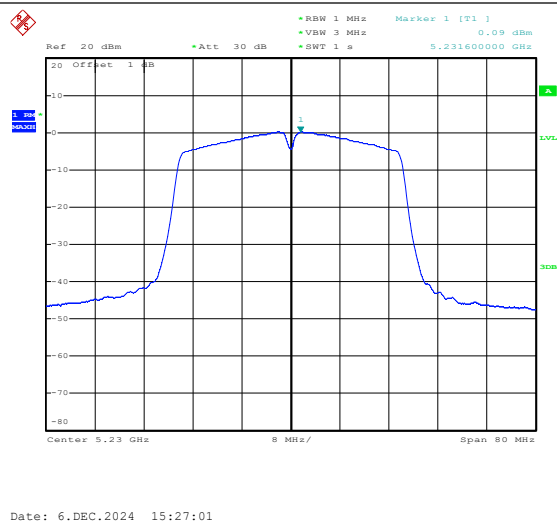
802.11a-Low	 Date: 6.DEC.2024 15:29:50
802.11a-Middle	 Date: 6.DEC.2024 15:29:34
802.11a-High	 Date: 6.DEC.2024 15:29:20

802.11n-HT20-Low	 Ref 20 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] 2.74 dBm *VBW 3 MHz *SWT 1 s 5.18120000 GHz Center 5.18 GHz 4 MHz/ Span 40 MHz Date: 6.DEC.2024 15:28:39
802.11n-HT20-Middle	 Ref 20 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] 3.10 dBm *VBW 3 MHz *SWT 1 s 5.201040000 GHz Center 5.2 GHz 4 MHz/ Span 40 MHz Date: 6.DEC.2024 15:28:54
802.11n-HT20-High	 Ref 20 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] 3.20 dBm *VBW 3 MHz *SWT 1 s 5.241120000 GHz Center 5.24 GHz 4 MHz/ Span 40 MHz Date: 6.DEC.2024 15:29:08

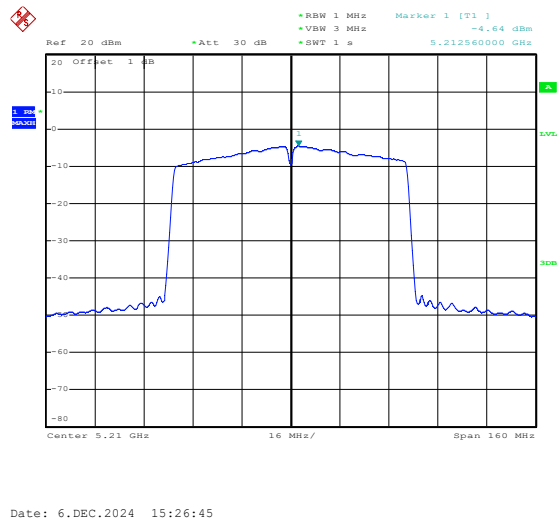
Channel	Plot Type	Frequency (GHz)	Span (MHz)	Resolution (MHz)	Bandwidth (MHz)	Power (dBm)	Offset (dB)	Att (dB)	SWT (s)	Marker (GHz)	Marker (dBm)	Date
802.11n-HT40-Low	Power Spectral Density	5.19	80	1	3	0.01	1	30	1	5.19160000		6. DEC. 2024 15:27:30
802.11n-HT40-High	Power Spectral Density	5.23	80	1	3	0.16	1	30	1	5.232240000		6. DEC. 2024 15:27:43
802.11ac-VHT20-Low	Power Spectral Density	5.18	40	1	3	2.86	1	30	1	5.181120000		6. DEC. 2024 15:28:27

802.11ac-VHT20-Middle	 Date: 6.DEC.2024 15:28:13
802.11ac-VHT20-High	 Date: 6.DEC.2024 15:27:59
802.11ac-VHT40-Low	 Date: 6.DEC.2024 15:27:19

802.11ac-VHT40-High



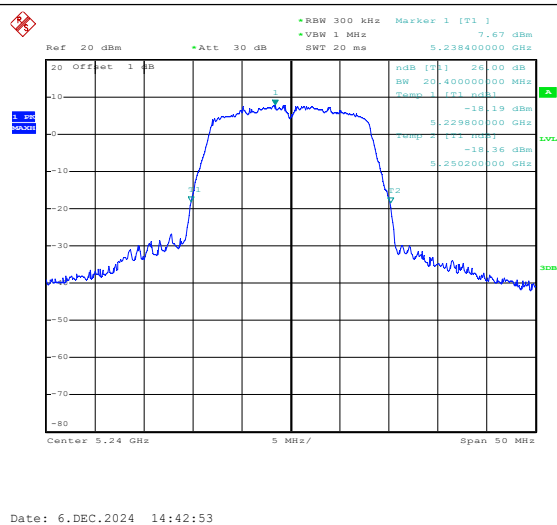
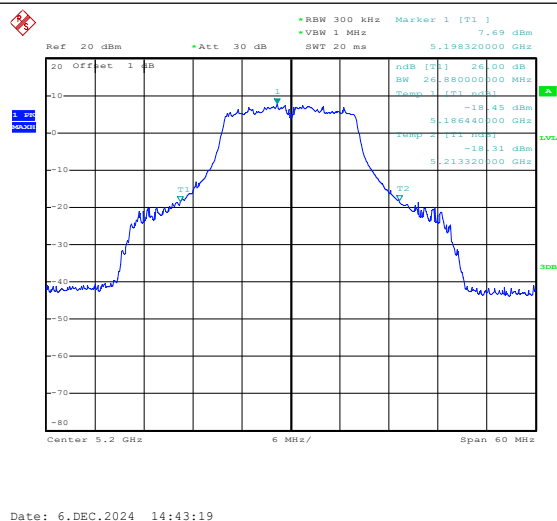
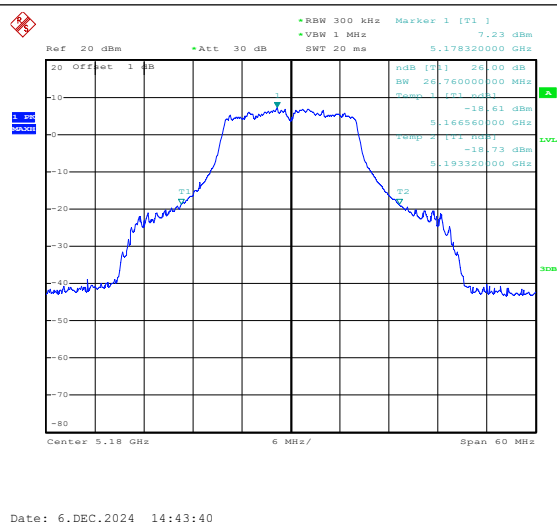
802.11ac-VHT80

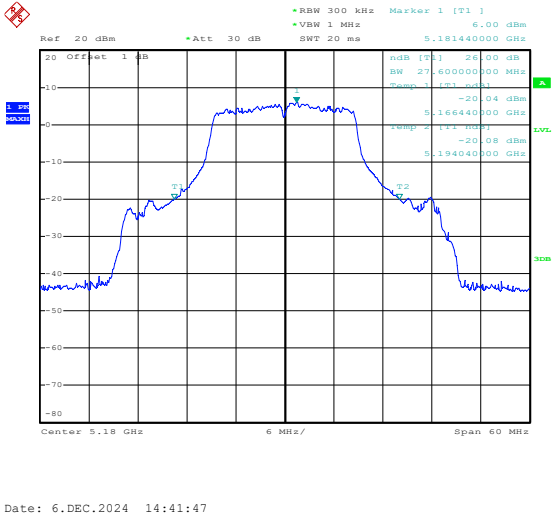
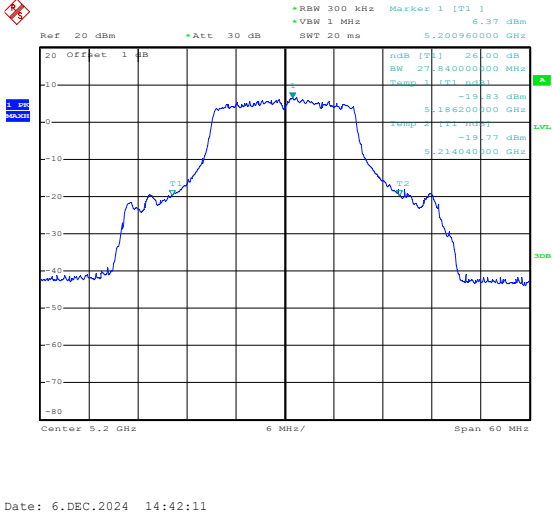
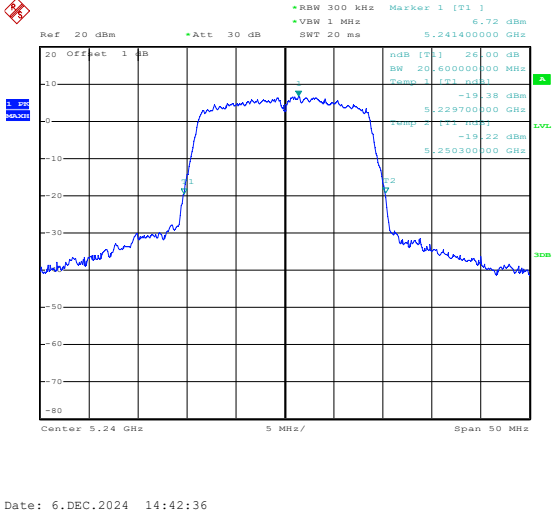


APPENDIX B

Emission Bandwidth and Occupied Bandwidth

U-NII-1:5150-5250MHz						
Test Mode	Test Channel MHz	ANT 1		ANT 2		Result
		26 dB Bandwidth MHz	99% Bandwidth MHz	26 dB Bandwidth MHz	99% Bandwidth MHz	
802.11a	5180	26.76	18.08	26.88	18.08	Pass
	5200	26.88	18.16	26.76	18.08	Pass
	5240	20.40	16.88	20.30	16.80	Pass
802.11n-HT20	5180	27.60	18.72	27.72	18.80	Pass
	5200	27.84	18.72	27.60	18.72	Pass
	5240	20.60	17.76	20.60	17.76	Pass
802.11n-HT40	5190	39.84	36.16	39.68	36.16	Pass
	5230	39.68	36.16	40.00	36.16	Pass
802.11ac-VHT20	5180	27.84	18.72	27.36	18.72	Pass
	5200	27.60	18.72	27.72	18.72	Pass
	5240	20.70	17.76	20.50	17.76	Pass
802.11ac-VHT40	5190	39.68	36.00	39.68	36.00	Pass
	5230	39.84	36.00	39.52	36.00	Pass
802.11ac-VHT80	5210	81.36	75.52	80.64	75.52	Pass



802.11n-HT20-Low	 Ref 20 dBm *Att 30 dB SWT 20 ms Marker 1 [T1] 6.00 dBm 5.181440000 GHz ndB [T1] -20.00 dBm SW 27.600000000 MHz Temp 1 [T1] ndB -20.04 dBm 5.166440000 GHz -20.08 dBm 5.196440000 GHz Center 5.18 GHz 6 MHz/ Span 60 MHz Date: 6.DEC.2024 14:41:47
802.11n-HT20-Middle	 Ref 20 dBm *Att 30 dB SWT 20 ms Marker 1 [T1] 6.37 dBm 5.200960000 GHz ndB [T1] -20.00 dBm SW 27.600000000 MHz Temp 1 [T1] ndB -19.83 dBm 5.186200000 GHz -19.77 dBm 5.214040000 GHz Center 5.2 GHz 6 MHz/ Span 60 MHz Date: 6.DEC.2024 14:42:11
802.11n-HT20-High	 Ref 20 dBm *Att 30 dB SWT 20 ms Marker 1 [T1] 6.72 dBm 5.241400000 GHz ndB [T1] -20.00 dBm SW 20.600000000 MHz Temp 1 [T1] ndB -19.38 dBm 5.229700000 GHz -19.22 dBm 5.250300000 GHz Center 5.24 GHz 5 MHz/ Span 50 MHz Date: 6.DEC.2024 14:42:36

802.11n-HT40-Low

Ref: 20 dBm, Att: 30 dB, RBW: 300 kHz, VBN: 1 MHz, Marker 1 [T1]: 2.91 dBm, SWT: 20 ms, 5.19336000 GHz

20 Offset 1 dB, ndB [T1]: 26.00 dB, BW: 39.84000000 MHz, Temp: 1 [T1] dBm, -23.48 dBm, 5.17016000 GHz, -23.31 dBm, 5.21000000 GHz

Center: 5.19 GHz, 8 MHz/, Span: 80 MHz

802.11n-HT40-High

Ref: 20 dBm, Att: 30 dB, RBW: 300 kHz, VBN: 1 MHz, Marker 1 [T1]: 3.14 dBm, SWT: 20 ms, 5.23208000 GHz

20 Offset 1 dB, ndB [T1]: 26.00 dB, BW: 39.68000000 MHz, Temp: 1 [T1] dBm, -22.82 dBm, 5.21016000 GHz, -22.76 dBm, 5.24984000 GHz

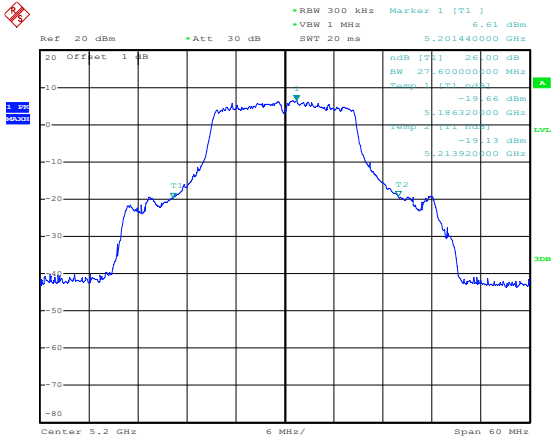
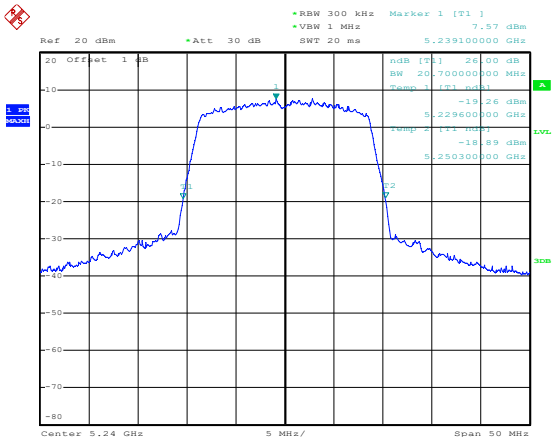
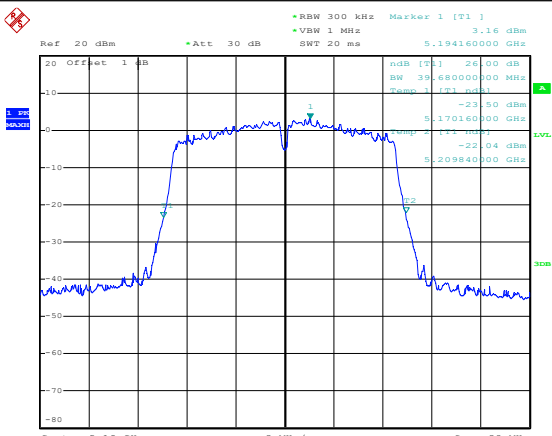
Center: 5.23 GHz, 8 MHz/, Span: 80 MHz

802.11ac-VHT20-Low

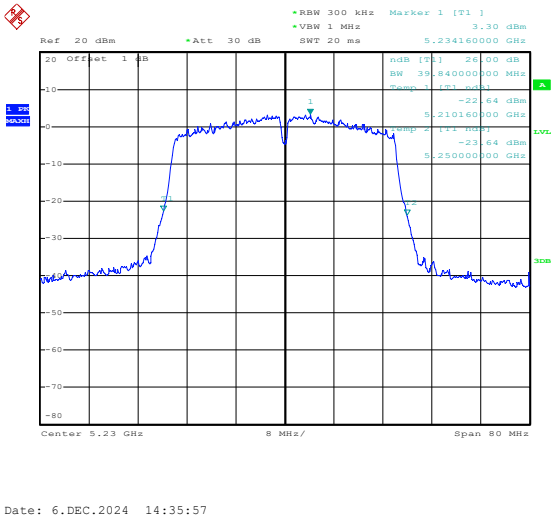
Ref: 20 dBm, Att: 30 dB, RBW: 300 kHz, VBN: 1 MHz, Marker 1 [T1]: 6.14 dBm, SWT: 20 ms, 5.18144000 GHz

20 Offset 1 dB, ndB [T1]: 26.00 dB, BW: 27.84000000 MHz, Temp: 1 [T1] dBm, -19.78 dBm, 5.16620000 GHz, -20.02 dBm, 5.19404000 GHz

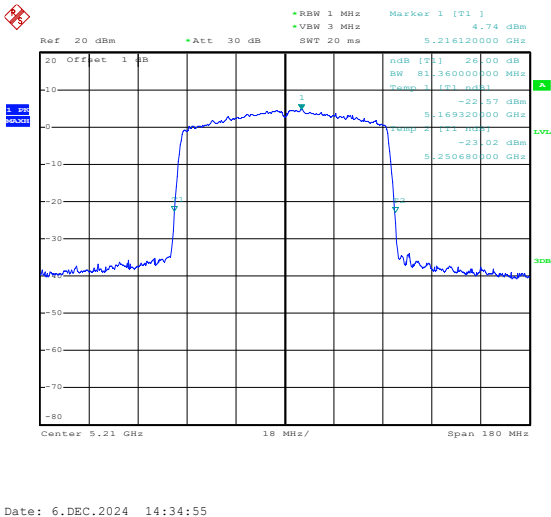
Center: 5.18 GHz, 6 MHz/, Span: 60 MHz

802.11ac-VHT20-Middle	 Ref 20 dBm *Att 30 dB RBW 300 kHz VSW 1 MHz Marker 1 [T1] 6.61 dBm 5.201440000 GHz 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 Center 5.2 GHz 6 MHz/ Span 60 MHz Date: 6.DEC.2024 14:40:59
802.11ac-VHT20-High	 Ref 20 dBm *Att 30 dB RBW 300 kHz VSW 1 MHz Marker 1 [T1] 7.57 dBm 5.239100000 GHz 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 Center 5.24 GHz 5 MHz/ Span 50 MHz Date: 6.DEC.2024 14:40:26
802.11ac-VHT40-Low	 Ref 20 dBm *Att 30 dB RBW 300 kHz VSW 1 MHz Marker 1 [T1] 3.16 dBm 5.194160000 GHz 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 Center 5.19 GHz 8 MHz/ Span 80 MHz Date: 6.DEC.2024 14:36:17

802.11ac-VHT40-High



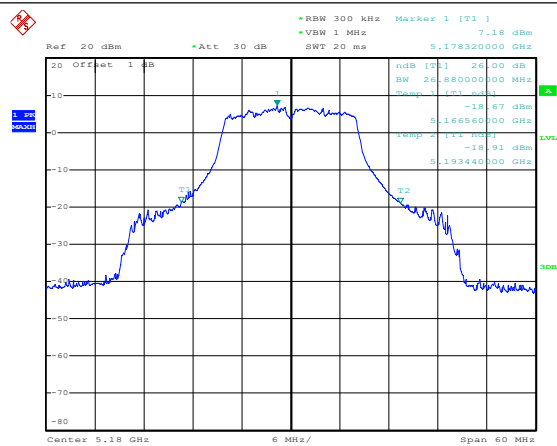
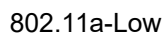
802.11ac-VHT80



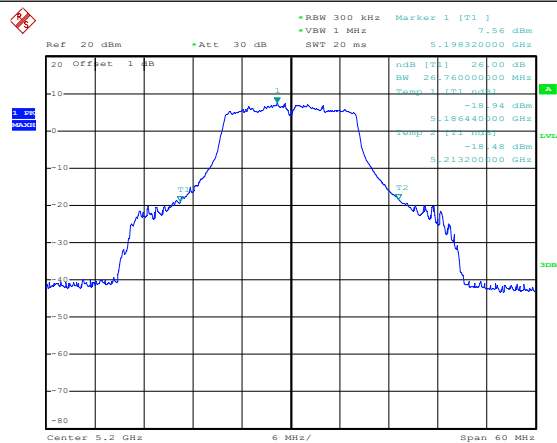
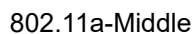
ANT 2

26 dB Bandwidth

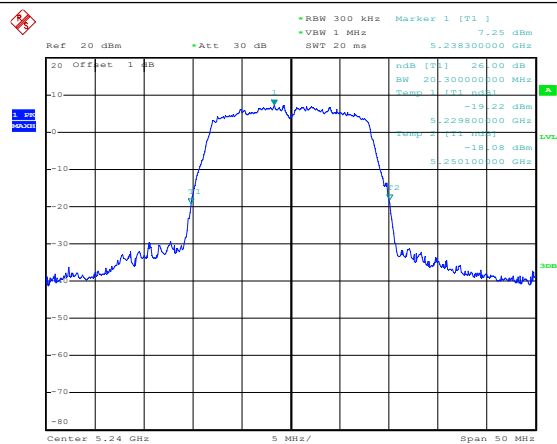
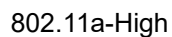
5150-5250MHz



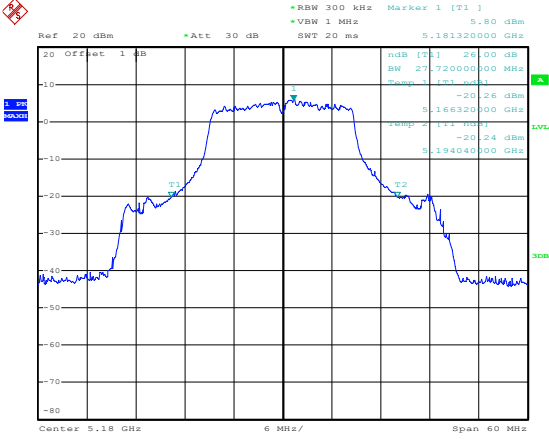
Date: 6.DEC.2024 15:38:44



Date: 6.DEC.2024 15:38:27



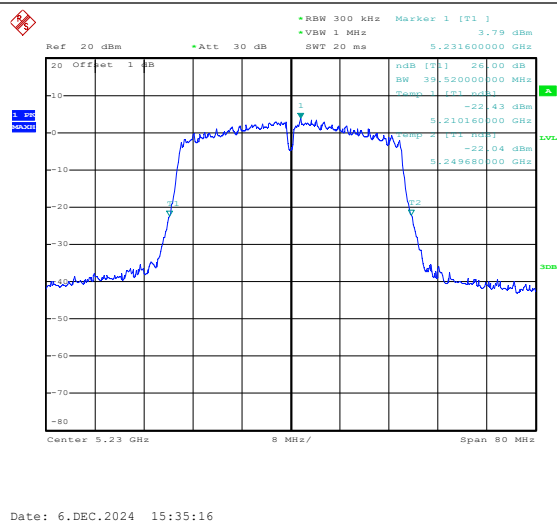
Date: 6.DEC.2024 15:38:11

802.11n-HT20-Low	 Ref 20 dBm *Att 30 dB SWT 20 ms Marker 1 [T1] 5.180 dBm Marker 2 [T2] 5.18320000 GHz Marker 3 [T3] 5.18632000 GHz Marker 4 [T4] 5.18944000 GHz Marker 5 [T5] 5.19256000 GHz Marker 6 [T6] 5.19568000 GHz Marker 7 [T7] 5.19880000 GHz Marker 8 [T8] 5.20192000 GHz Marker 9 [T9] 5.20504000 GHz Marker 10 [T10] 5.20816000 GHz Marker 11 [T11] 5.21128000 GHz Marker 12 [T12] 5.21440000 GHz Marker 13 [T13] 5.21752000 GHz Marker 14 [T14] 5.22064000 GHz Marker 15 [T15] 5.22376000 GHz Marker 16 [T16] 5.22688000 GHz Marker 17 [T17] 5.23000000 GHz Marker 18 [T18] 5.23312000 GHz Marker 19 [T19] 5.23624000 GHz Marker 20 [T20] 5.23936000 GHz Marker 21 [T21] 5.24248000 GHz Marker 22 [T22] 5.24560000 GHz Marker 23 [T23] 5.24872000 GHz Marker 24 [T24] 5.25184000 GHz Marker 25 [T25] 5.25496000 GHz Marker 26 [T26] 5.25808000 GHz Marker 27 [T27] 5.26120000 GHz Marker 28 [T28] 5.26432000 GHz Marker 29 [T29] 5.26744000 GHz Marker 30 [T30] 5.27056000 GHz Marker 31 [T31] 5.27368000 GHz Marker 32 [T32] 5.27680000 GHz Marker 33 [T33] 5.27992000 GHz Marker 34 [T34] 5.28304000 GHz Marker 35 [T35] 5.28616000 GHz Marker 36 [T36] 5.28928000 GHz Marker 37 [T37] 5.29240000 GHz Marker 38 [T38] 5.29552000 GHz Marker 39 [T39] 5.29864000 GHz Marker 40 [T40] 5.30176000 GHz Marker 41 [T41] 5.30488000 GHz Marker 42 [T42] 5.30800000 GHz Marker 43 [T43] 5.31112000 GHz Marker 44 [T44] 5.31424000 GHz Marker 45 [T45] 5.31736000 GHz Marker 46 [T46] 5.32048000 GHz Marker 47 [T47] 5.32360000 GHz Marker 48 [T48] 5.32672000 GHz Marker 49 [T49] 5.32984000 GHz Marker 50 [T50] 5.33296000 GHz Marker 51 [T51] 5.33608000 GHz Marker 52 [T52] 5.33920000 GHz Marker 53 [T53] 5.34232000 GHz Marker 54 [T54] 5.34544000 GHz Marker 55 [T55] 5.34856000 GHz Marker 56 [T56] 5.35168000 GHz Marker 57 [T57] 5.35480000 GHz Marker 58 [T58] 5.35792000 GHz Marker 59 [T59] 5.36104000 GHz Marker 60 [T60] 5.36416000 GHz Marker 61 [T61] 5.36728000 GHz Marker 62 [T62] 5.37040000 GHz Marker 63 [T63] 5.37352000 GHz Marker 64 [T64] 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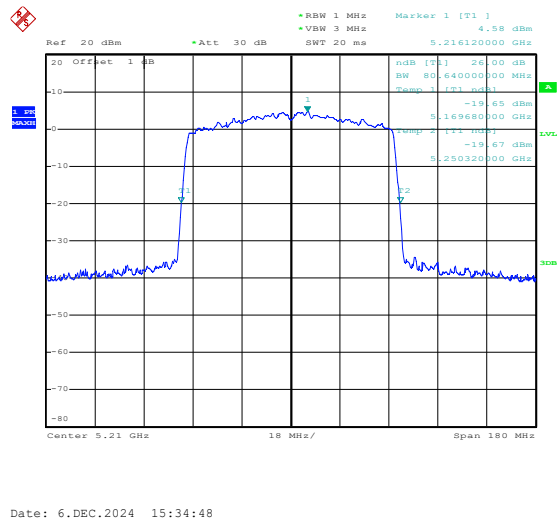
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802.11ac-VHT20-Middle	Ref 20 dBm *Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 6.13 dBm dBm [T1] 20.00 dBm BW 27.72000000 MHz Temp 1 [T1] 20.00 dBm -19.94 dBm 5.18620000 GHz -20.06 dBm 5.21392000 GHz Center 5.2 GHz 6 MHz/ Span 60 MHz Date: 6.DEC.2024 15:36:41
802.11ac-VHT20-High	Ref 20 dBm *Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 7.02 dBm dBm [T1] 20.00 dBm BW 20.50000000 MHz Temp 1 [T1] 20.00 dBm -19.25 dBm 5.22970000 GHz -18.46 dBm 5.25020000 GHz Center 5.24 GHz 5 MHz/ Span 50 MHz Date: 6.DEC.2024 15:36:18
802.11ac-VHT40-Low	Ref 20 dBm *Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 3.48 dBm dBm [T1] 20.00 dBm BW 39.68000000 MHz Temp 1 [T1] 20.00 dBm -22.78 dBm 5.17016000 GHz -22.69 dBm 5.20984000 GHz Center 5.19 GHz 8 MHz/ Span 80 MHz Date: 6.DEC.2024 15:35:31

802.11ac-VHT40-High



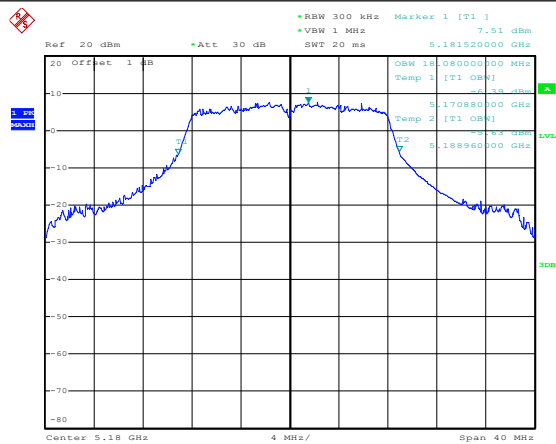
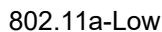
802.11ac-VHT80



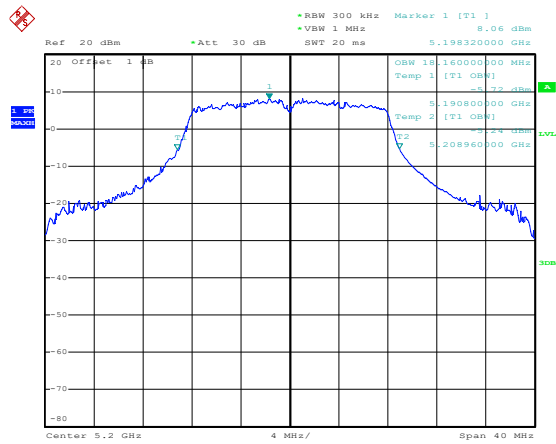
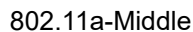
ANT 1

99% Bandwidth

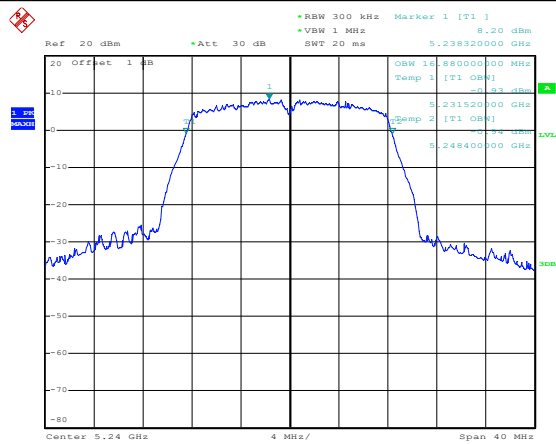
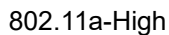
5150-5250MHz



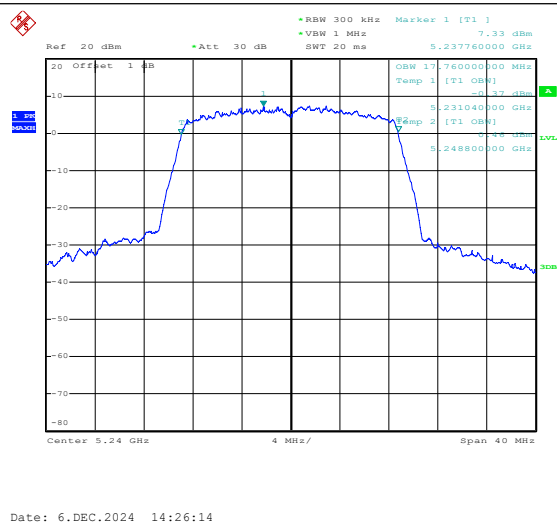
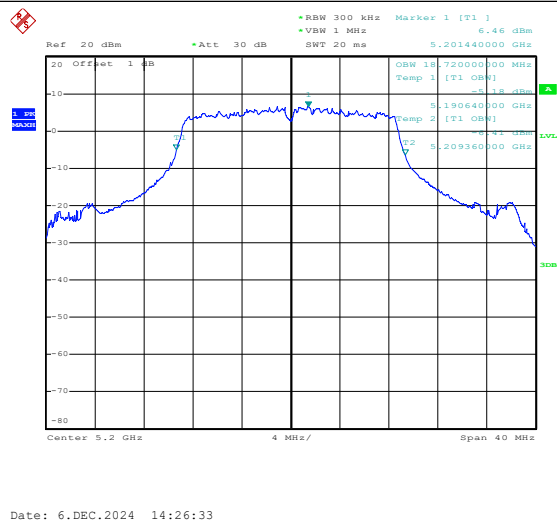
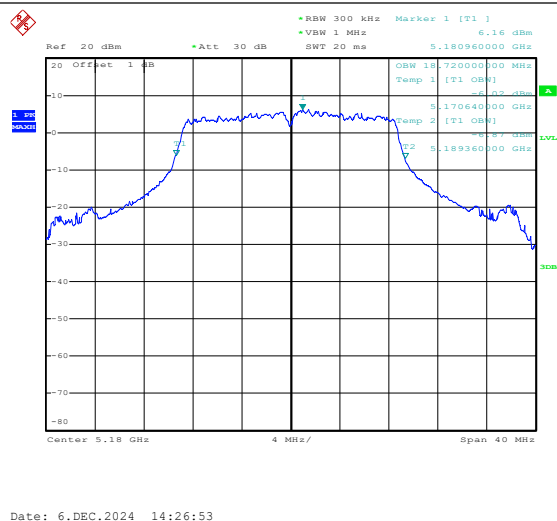
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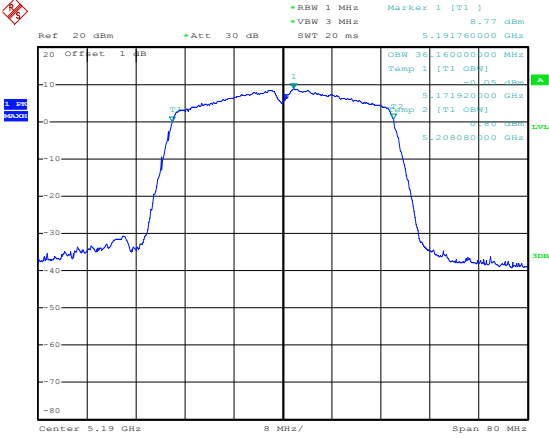
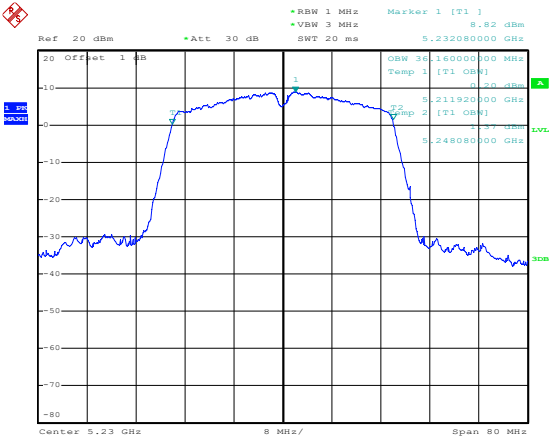
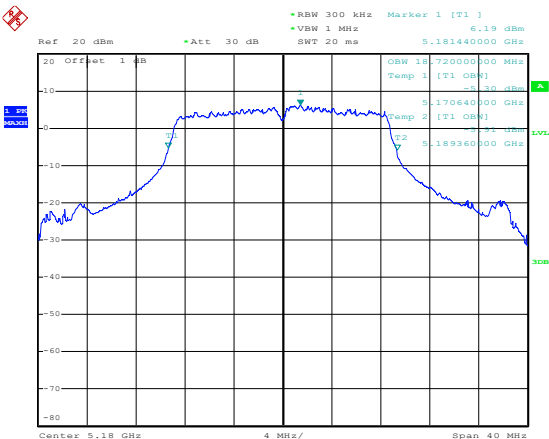


Date: 6.DEC.2024 14:19:55



Date: 6.DEC.2024 14:23:02



802.11n-HT40-Low	 Date: 6.DEC.2024 14:28:27
802.11n-HT40-High	 Date: 6.DEC.2024 14:28:51
802.11ac-VHT20-Low	 Date: 6.DEC.2024 14:27:09

802.11ac-VHT20-Middle

Ref 20 dBm Att 30 dB RBW 300 kHz VBW 1 MHz Marker 1 [T1] 6.42 dBm 5.201440000 GHz

OSW 18.720000000 MHz Temp 1 [T1 OBW] 5.192640000 GHz Temp 2 [T1 OBW] 5.209360000 GHz 18.720000000 MHz Temp 1 [T1 OBW] 5.201440000 GHz 18.720000000 MHz Temp 1 [T1 OBW]

Center 5.2 GHz 4 MHz/ Span 40 MHz

Date: 6.DEC.2024 14:27:28

802.11ac-VHT20-High

Ref 20 dBm Att 30 dB RBW 300 kHz VBW 1 MHz Marker 1 [T1] 6.87 dBm 5.241440000 GHz

OSW 17.760000000 MHz Temp 1 [T1 OBW] 5.231040000 GHz Temp 2 [T1 OBW] 5.248800000 GHz 17.760000000 MHz Temp 1 [T1 OBW] 5.241440000 GHz 17.760000000 MHz Temp 1 [T1 OBW]

Center 5.24 GHz 4 MHz/ Span 40 MHz

Date: 6.DEC.2024 14:27:46

802.11ac-VHT40-Low

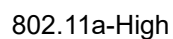
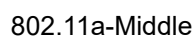
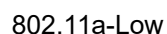
Ref 20 dBm Att 30 dB RBW 1 MHz VBW 3 MHz Marker 1 [T1] 8.87 dBm 5.191920000 GHz

OSW 36.000000000 MHz Temp 1 [T1 OBW] 5.172080000 GHz Temp 2 [T1 OBW] 5.208080000 GHz 36.000000000 MHz Temp 1 [T1 OBW] 5.191920000 GHz 36.000000000 MHz Temp 1 [T1 OBW]

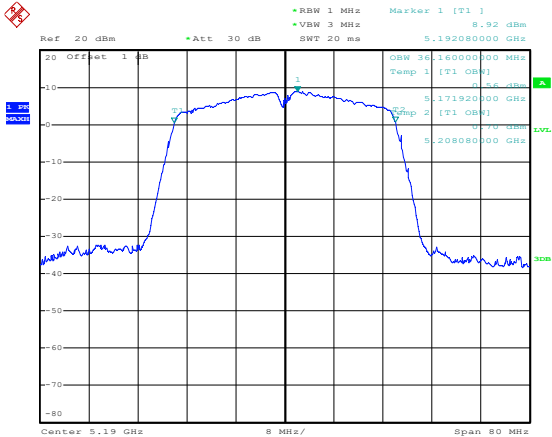
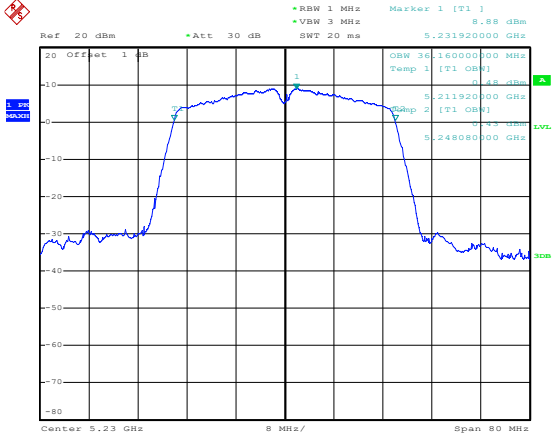
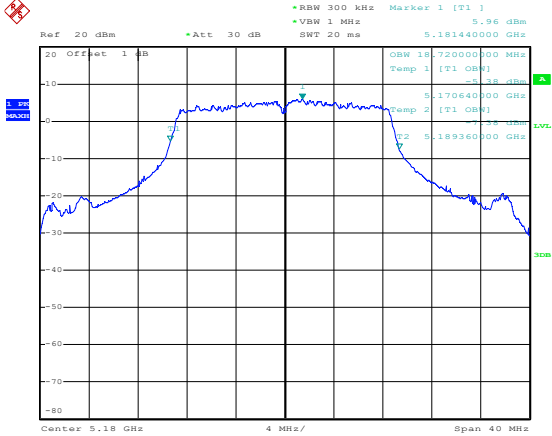
Center 5.19 GHz 8 MHz/ Span 80 MHz

Date: 6.DEC.2024 14:29:27

802.11ac-VHT40-High	RBW 1 MHz Marker 1 [T1] VBW 3 MHz 4.70 dBm Ref 20 dBm *Att 30 dB SWT 20 ms 5.22800000 GHz Offset 1 dB 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 OSW 30.00000000 MHz Temp 1 [T1] 0.15 dBm 5.211920000 GHz Temp 2 [T1] 1.39 dBm 5.247920000 GHz Center 5.23 GHz 8 MHz/ Span 80 MHz Date: 6.DEC.2024 14:29:06
802.11ac-VHT80	RBW 1 MHz Marker 1 [T1] VBW 3 MHz 4.67 dBm Ref 20 dBm *Att 30 dB SWT 20 ms 5.21640000 GHz Offset 1 dB 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 OSW 75.00000000 MHz Temp 1 [T1] -1.85 dBm 5.172240000 GHz Temp 2 [T1] 0.24 dBm 5.247760000 GHz Center 5.21 GHz 16 MHz/ Span 160 MHz Date: 6.DEC.2024 14:29:56

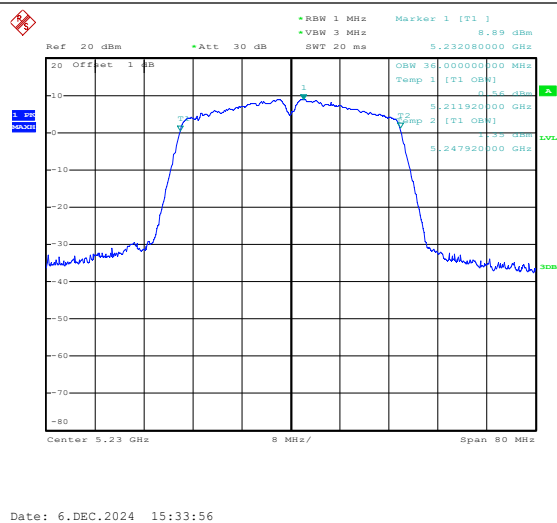


[illegible]

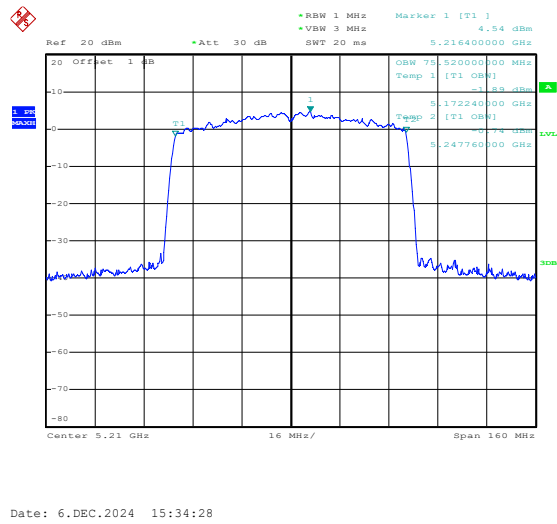
802.11n-HT40-Low	 Ref 20 dBm *Att 30 dB SWT 20 ms Marker 1 [T1] 5.192080000 GHz 8.92 dBm OSW 30.160000000 MHz Temp 1 [T1] 0.56 dBm Temp 2 [T1] 5.171920000 GHz 5.170 dBm Temp 3 [T1] 5.208080000 GHz 5.208 dBm Center 5.19 GHz 8 MHz/ Span 80 MHz Date: 6.DEC.2024 15:33:25
802.11n-HT40-High	 Ref 20 dBm *Att 30 dB SWT 20 ms Marker 1 [T1] 5.231920000 GHz 8.88 dBm OSW 30.160000000 MHz Temp 1 [T1] 0.48 dBm Temp 2 [T1] 5.211920000 GHz 5.213 dBm Temp 3 [T1] 5.248080000 GHz 5.248 dBm Center 5.23 GHz 8 MHz/ Span 80 MHz Date: 6.DEC.2024 15:33:42
802.11ac-VHT20-Low	 Ref 20 dBm *Att 30 dB SWT 20 ms Marker 1 [T1] 5.181440000 GHz 5.96 dBm OSW 18.720000000 MHz Temp 1 [T1] -5.18 dBm Temp 2 [T1] 5.170640000 GHz 5.174 dBm Temp 3 [T1] 5.189360000 GHz 5.189 dBm Center 5.18 GHz 4 MHz/ Span 40 MHz Date: 6.DEC.2024 15:32:32

[illegible]

802.11ac-VHT40-High



802.11ac-VHT80

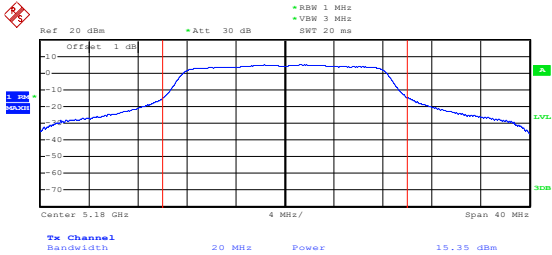
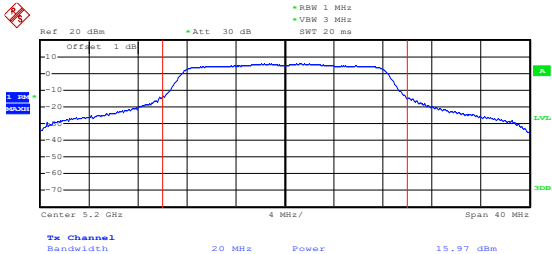
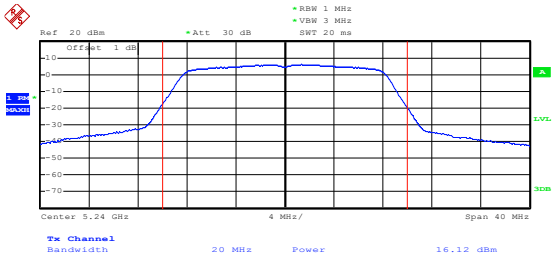


APPENDIX C

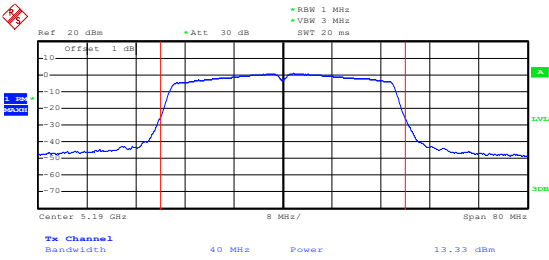
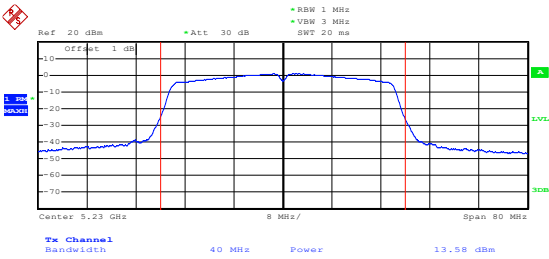
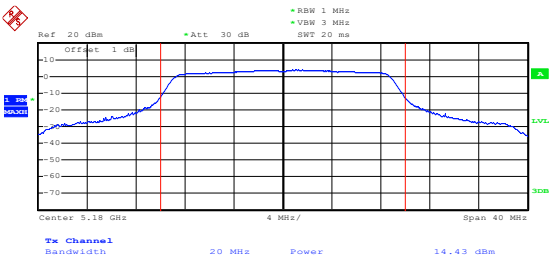
Maximum Conducted Output Power

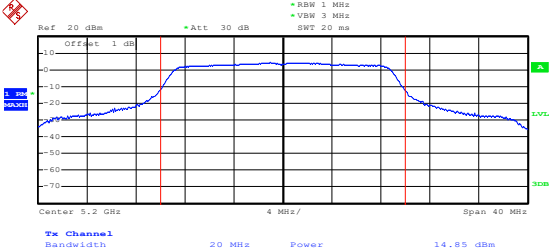
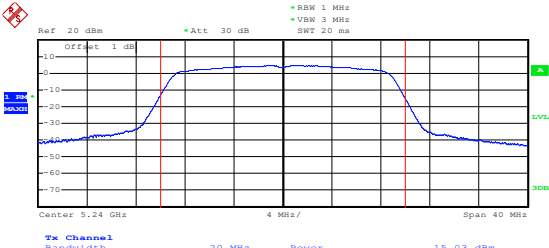
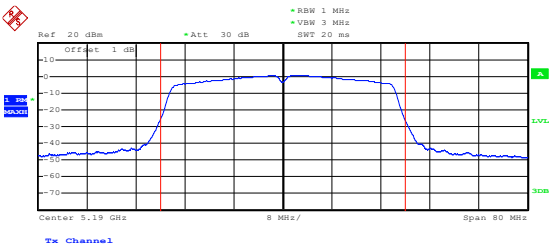
U-NII-1:5150-5250MHz					
Test mode	Frequency MHz	Output Power dBm		Total dBm	Limit dBm
		ANT 1	ANT 2		
802.11a	5180	15.35	15.13	/	23.98
	5200	15.97	15.48	/	23.98
	5240	16.12	15.18	/	23.98
802.11n-HT20	5180	14.42	14.01	17.23	23.98
	5200	14.87	14.43	17.67	23.98
	5240	15.10	14.17	17.67	23.98
802.11n-HT40	5190	13.33	13.59	16.47	23.98
	5230	13.58	13.62	16.61	23.98
802.11ac-VHT20	5180	14.43	14.08	17.27	23.98
	5200	14.85	14.46	17.67	23.98
	5240	15.03	14.10	17.60	23.98
802.11ac-VHT40	5190	13.32	13.58	16.46	23.98
	5230	13.62	13.65	16.65	23.98
802.11ac-VHT80	5210	12.52	12.45	15.50	23.98

ANT 1
5150-5250MHz

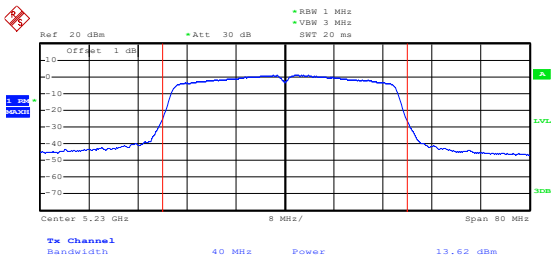
802.11a-Low	 Ref 20 dBm Att 30 dB RBW 1 MHz Offset 1 dB VBW 3 MHz SWT 20 ms Center 5.18 GHz 4 MHz/ Span 40 MHz Tx Channel Bandwidth 20 MHz Power 15.35 dBm Date: 6.DEC.2024 14:08:14
802.11a-Middle	 Ref 20 dBm Att 30 dB RBW 1 MHz Offset 1 dB VBW 3 MHz SWT 20 ms Center 5.2 GHz 4 MHz/ Span 40 MHz Tx Channel Bandwidth 20 MHz Power 15.97 dBm Date: 6.DEC.2024 14:08:46
802.11a-High	 Ref 20 dBm Att 30 dB RBW 1 MHz Offset 1 dB VBW 3 MHz SWT 20 ms Center 5.24 GHz 4 MHz/ Span 40 MHz Tx Channel Bandwidth 20 MHz Power 16.12 dBm Date: 6.DEC.2024 14:09:11

802.11n-HT20-Low	Date: 6.DEC.2024 14:10:14
802.11n-HT20-Middle	Date: 6.DEC.2024 14:09:56
802.11n-HT20-High	Date: 6.DEC.2024 14:09:38

802.11n-HT40-Low	 Date: 6.DEC.2024 14:11:36
802.11n-HT40-High	 Date: 6.DEC.2024 14:11:52
802.11ac-VHT20-Low	 Date: 6.DEC.2024 14:10:33

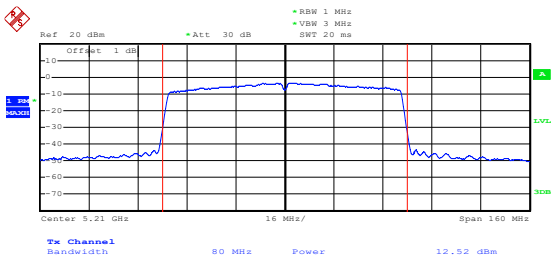
802.11ac-VHT20-Middle	 Date: 6.DEC.2024 14:10:50
802.11ac-VHT20-High	 Date: 6.DEC.2024 14:11:10
802.11ac-VHT40-Low	 Date: 6.DEC.2024 14:12:29

802.11ac-VHT40-High



Date: 6.DEC.2024 14:12:10

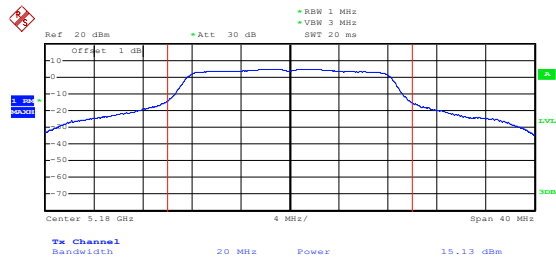
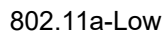
802.11ac-VHT80



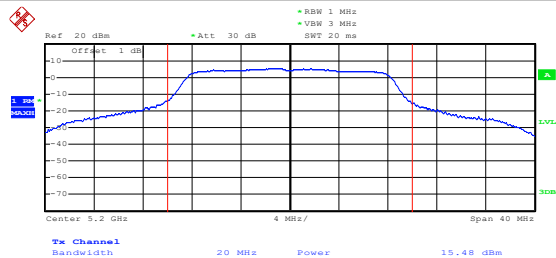
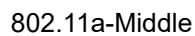
Date: 6.DEC.2024 14:12:53

ANT 2

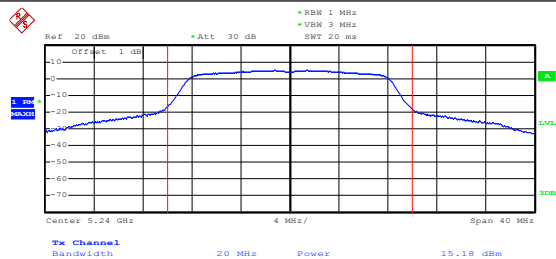
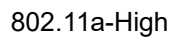
5150-5250MHz



Date: 6.DEC.2024 15:21:13

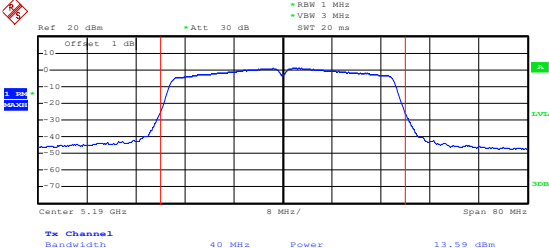
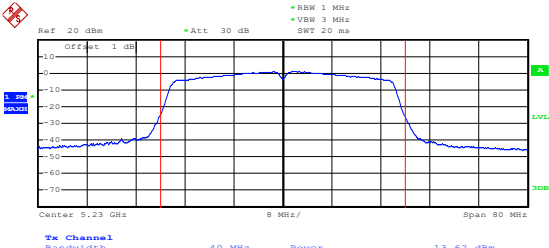
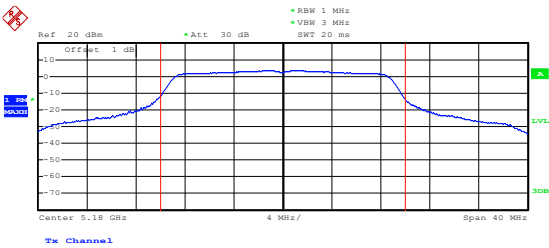


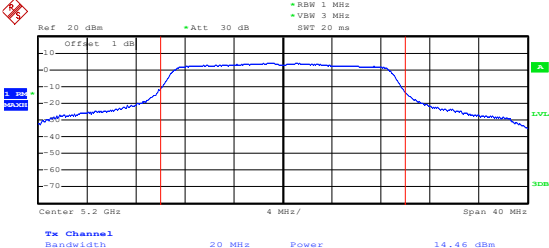
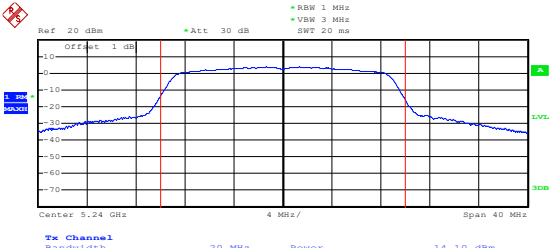
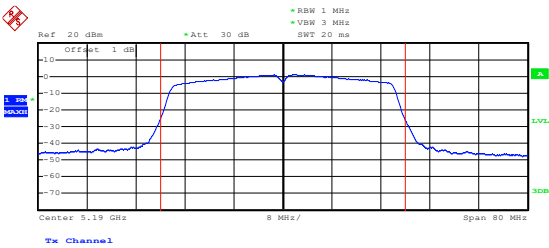
Date: 6.DEC.2024 15:21:32



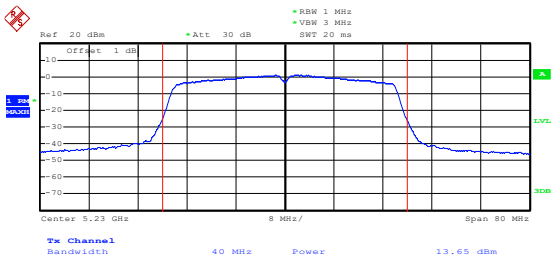
Date: 6.DEC.2024 15:21:50

802.11n-HT20-Low	Date: 6.DEC.2024 15:22:55
802.11n-HT20-Middle	Date: 6.DEC.2024 15:22:22
802.11n-HT20-High	Date: 6.DEC.2024 15:22:07

802.11n-HT40-Low	 Date: 6.DEC.2024 15:25:06
802.11n-HT40-High	 Date: 6.DEC.2024 15:25:22
802.11ac-VHT20-Low	 Date: 6.DEC.2024 15:24:13

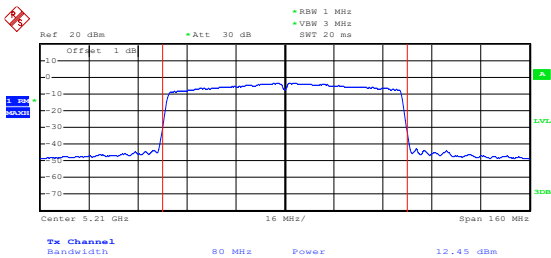
802.11ac-VHT20-Middle	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VSW: 3 MHz SWT: 20 ms Center: 5.2 GHz Span: 40 MHz Tx Channel Bandwidth: 20 MHz Power: 14.46 dBm Date: 6.DEC.2024 15:24:28
802.11ac-VHT20-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VSW: 3 MHz SWT: 20 ms Center: 5.24 GHz Span: 40 MHz Tx Channel Bandwidth: 20 MHz Power: 14.10 dBm Date: 6.DEC.2024 15:24:43
802.11ac-VHT40-Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VSW: 3 MHz SWT: 20 ms Center: 5.19 GHz Span: 80 MHz Tx Channel Bandwidth: 40 MHz Power: 13.58 dBm Date: 6.DEC.2024 15:25:51

802.11ac-VHT40-High



Date: 6.DEC.2024 15:25:34

802.11ac-VHT80



Date: 6.DEC.2024 15:26:18

APPENDIX D

Frequency Stability

U-NII-1:5150-5250MHz worst case at 802.11a middle channel				
Voltage(%)	Power(VDC)	TEMP(°C)	Freq.Dev(Hz)	Deviation
100%	5.0	-30	509	0.098
100%		-20	504	0.097
100%		-10	496	0.095
100%		0	495	0.095
100%		+10	503	0.097
100%		+20	496	0.095
100%		+30	492	0.095
100%		+40	501	0.096
100%		+50	506	0.097
Low Battery power	5.50	+20	502	0.097
High Battery power	4.50	+20	507	0.098

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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