

TEST REPORT

Reference No...... : WTX25X12347415W001
FCC ID..... : 2ATEV-ICLAN3
Applicant..... : Hangzhou BroadLink Technology Co., Ltd.
Address..... : Building C, 57 Jiang'er Road, Binjiang Hangzhou Zhejiang 310052 China
Manufacturer..... : The same as Applicant
Address..... : The same as Applicant
Product Name..... : Smart Screen
Model No...... : IC.LAN.CMSS-3
Standards..... : FCC Part 15.407
Date of Receipt sample..... : 2025-12-25
Date of Test..... : 2026-01-04 to 2026-01-21
Date of Issue..... : 2026-02-02
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	2026-02-02	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Smart Screen
Trade Name:	/
Model No.:	IC.LAN.CMSS-3
Adding Model(s):	CMSS-3, BH-H22F12, LAN.CMSS-3
Rated Voltage:	AC110-240V 50-60Hz
Battery Capacity:	/
Power Adapter:	/
<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 IC.LAN.CMSS-3, 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, 5260-5320MHz 5500-5700MHz, 5745-5825MHz
Max. RF Output Power:	15.96dBm (Conducted)
Type of Modulation:	QPSK, 16QAM, 64QAM, 256QAM
Type of Antenna:	FPC Antenna
Antenna Gain:	-4.14dBi
<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 C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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

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

1.3 Test Methodology

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

1.4 Table for parameters of Test Software setting

Run commands and follow the instructions given by the manufacturer, 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	5260	5280	5320	5500	5580	5700	5745	5785	5825
802.11a 6Mbps	70	70	70	70	70	70	70	70	70	70	70	70
802.11n-HT20 MCS0	65	65	65	65	65	65	65	65	65	65	65	65
802.11ac-VHT20 MCS0	55	55	55	55	55	55	55	55	55	55	55	55
Mode	NCB: 40MHz											
	5190	5230	5270	5310	5510	5550	5670	5710	5755	5795		
802.11n-HT40 MCS0	62	62	62	62	62	62	62	62	62	62	62	62
802.11ac-VHT40 MCS0	50	50	50	50	50	50	50	50	50	50	50	50
Mode	NCB: 80MHz											

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	5210	5290	5530	5610	5775
802.11ac-VH80 MCS0/Nss2	50	50	50	50	50

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, Block 70 Bao'an District, Shenzhen, Guangdong, China

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,5260MHz,5280MHz,5320MHz,5500MHz,5580MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM2	802.11n-HT20	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz,5680MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM3	802.11ac-VHT20	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz,5680MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM4	802.11n-HT40	5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5550MHz,5670MHz,5755MHz,5795MHz
TM5	802.11ac-VHT40	5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5550MHz,5670MHz,5755MHz,5795MHz
TM6	802.11ac-VHT80	5210MHz,5290MHz,5530MHz,5610MHz,5775MHz

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

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
AC Cable	1	Unshielded	Without Ferrite

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

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.8 Measurement Uncertainty

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

1.9 Test Equipment List and Details

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2025-02-23	2026-02-22
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2025-02-23	2026-02-22
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2025-02-23	2026-02-22
WTXE1005A 1006	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2025-02-23	2026-02-22
WTXW1105A 1010	Spectrum Analyzer	KEYSIGHT	N9020A	MY512856 77	2025-02-23	2026-02-22
WTXE1105A 1008	RF Control Unit	Tonscend	JS0806-2	24F80620 870	2025-02-23	2026-02-22
WTXE1103A 1003	Attenuator	Pasternack	PE4007-4	/	2025-02-23	2026-02-22
WTXE1003A 1-005	Coaxial Cable	/	0M4RFC	/	2025-02-23	2026-02-22
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2025-02-23	2026-02-22
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
WTXE1007A 1002	Amplifier	HP	8447F	2805A034 75	2025-02-23	2026-02-22
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2025-02-23	2026-02-22
WTXE1104A 1032-1	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1032-2	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1032-3	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2025-02-23	2026-02-22
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22

WTXE1065A 1001	Amplifier	C&D	PAP-1.0G18	14918	2025-02-23	2026-02-22
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2025-02-23	2026-02-22
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
WTXE1104A 1033-1	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
WTXE1104A 1033-2	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
WTXE1104A 1033-3	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2025-02-23	2026-02-22
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2025-02-23	2026-02-22
WTXE1104A 1031-1	Coaxial Cable	/	1.5MRFC-LWB3	/	2025-02-23	2026-02-22
WTXE1104A 1031-2	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
WTXE1104A 1031-3	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
WTXE1007A 1003	Amplifier	HP	8447F	2944A038 69	2025-02-23	2026-02-22
WTXE1104A 1034-1	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1034-2	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22

WTXE1104A 1034-3	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2025-06-13	2027-06-12
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2025-02-23	2026-02-22
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
WTXE1104A 1035-1	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1035-2	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1035-3	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
☐ Conducted Room 1#						
WTXE1104A 1029	EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2025-11-25	2026-11-24
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2025-02-23	2026-02-22
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2025-02-23	2026-02-22
WTXE1104A 1036	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
WTXE1104A 1038	Coaxial Cable	/	6MRFC-DP	/	2025-02-23	2026-02-22
☒ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2025-02-23	2026-02-22
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2025-02-23	2026-02-22
WTXE1104A 1037	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22

Software List			
Description	Manufacturer	Model	Version
EMI Test Software/EZ-EMC (Radiated Emission A)	Farad	RA-03A1	1.1.4.2
EMI Test Software/EZ-EMC (Radiated Emission B)	Farad	RA-03A1	1.1.4.2
EMI Test Software/EZ-EMC (Radiated Emission C)	Farad	RA-03A1-2	1.1.4.2
EMI Test Software/EZ-EMC (Conducted Emission Room 1#)	Farad	3A1*CE-RE	1.1.4.3
EMI Test Software/EZ-EMC (Conducted Emission Room 2#)	Farad	3A1*CE-RE	1.1.4.3
RF Test System	Tonscend	JS1120-3	V3.5.39

*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; §15.209; §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 a FPC antenna, 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 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.

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 1 MHz RBW to satisfy directly the 1 MHz 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 1 MHz, 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 ($< 1\text{MHz}$, or $< 500\text{kHz}$) and integrated over 1 MHz, or 500kHz bandwidth, the following adjustments to the procedures apply:

- a) Set $\text{RBW} \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $\text{VBW} \geq 3 \text{ RBW}$.
- c) If measurement bandwidth of Maximum PSD is specified in 500kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas $\text{RBW} (< 500\text{kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/\text{RBW})$ to the measured result, whereas $\text{RBW} (< 1\text{MHz})$ 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 $\text{RBW}=100\text{kHz}$ is available on nearly all spectrum analyzers.

5.3 Summary of Test Results/Plots

Please refer to Appendix D

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 6 dBi. 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 6 dB emission bandwidth of at least 500KHz for the band 5.715-5.85 GHz. 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 6dB 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.: WTX25X12347415W001

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 A1&A2&A3

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 6 dBi. 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.

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 $\geq$ 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 1MHz 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 75MHz 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:

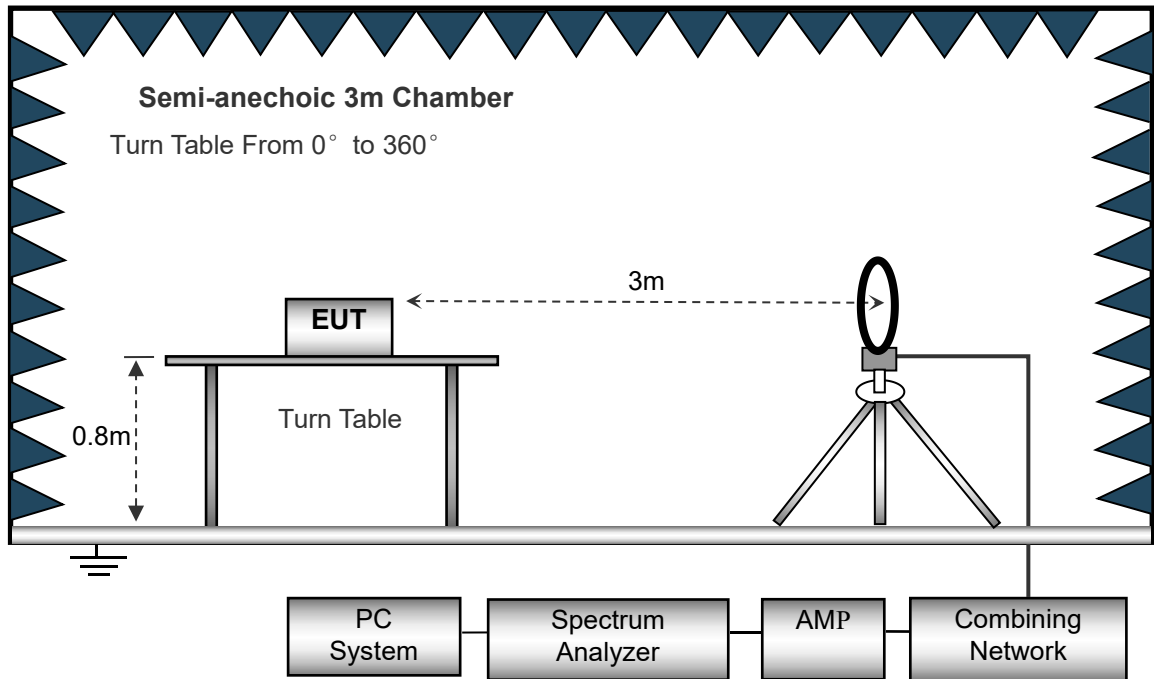
- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

8.2 Test Procedure

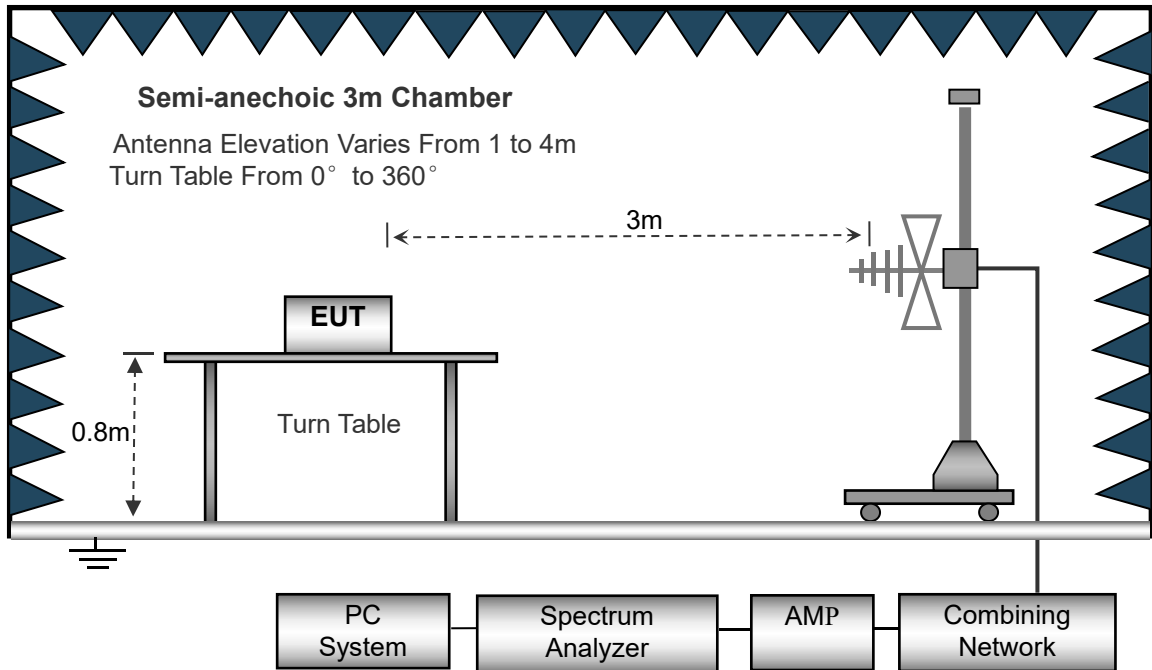
The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

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

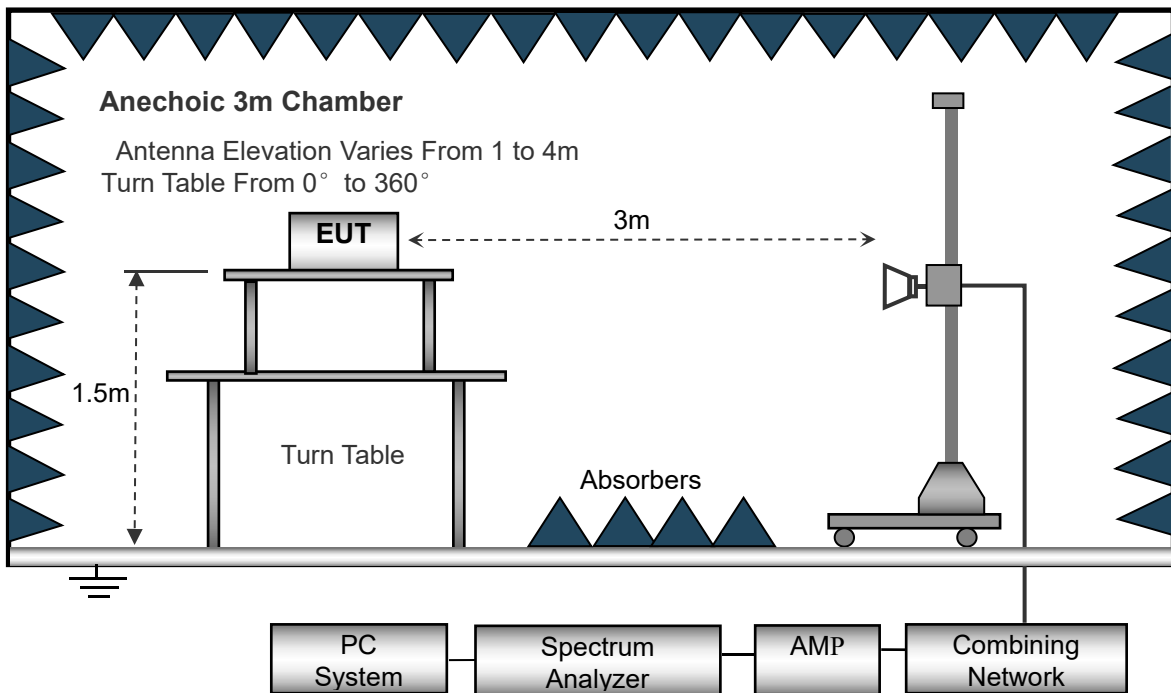
The test setup for emission measurement below 30MHz.



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



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:

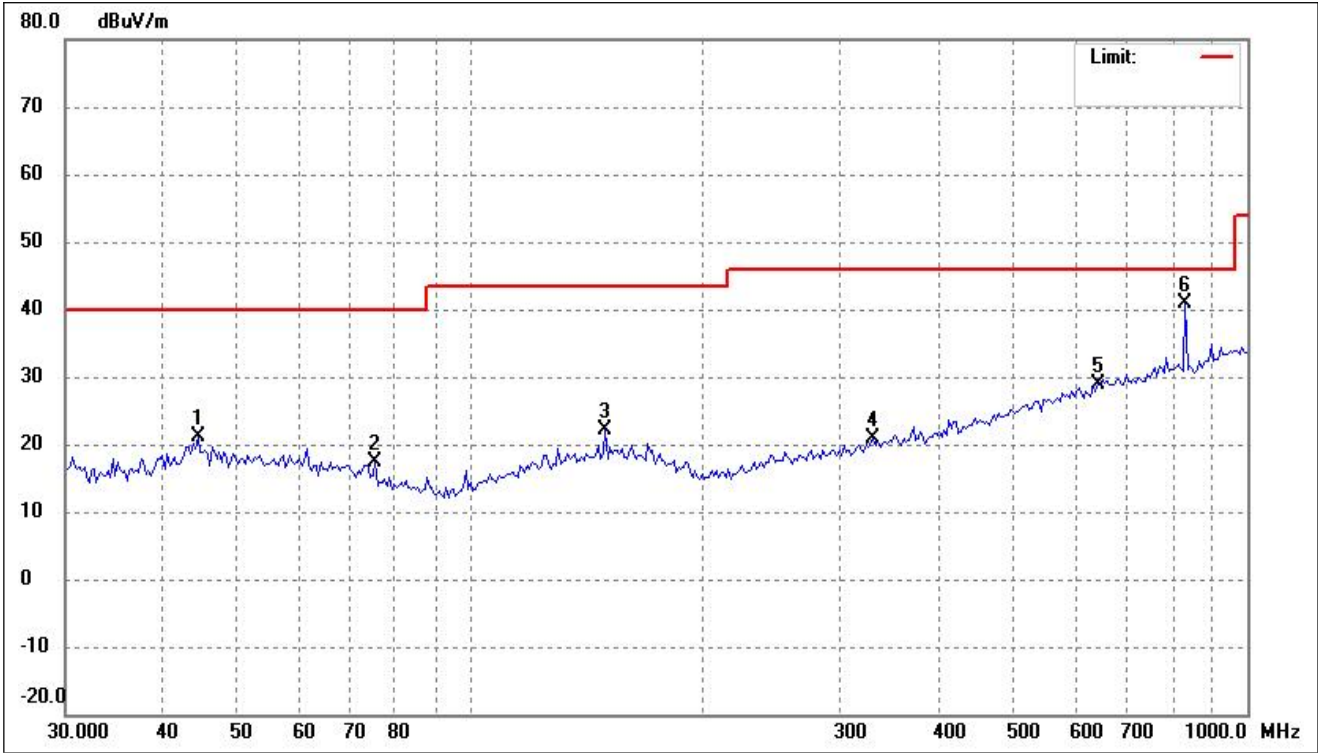
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

8.5 Summary of Test Results/Plots

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

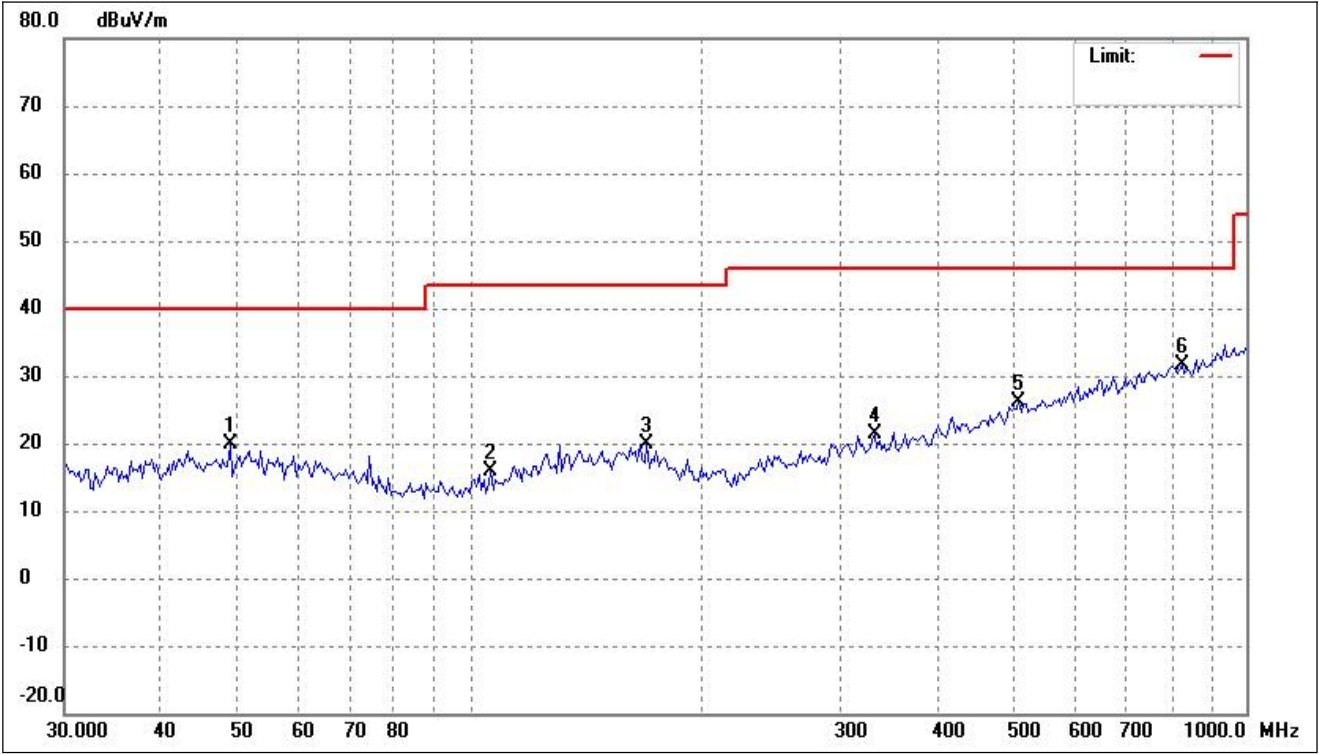
- Spurious Emission From 30MHz to 1GHz
- 5150-5250MHz

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



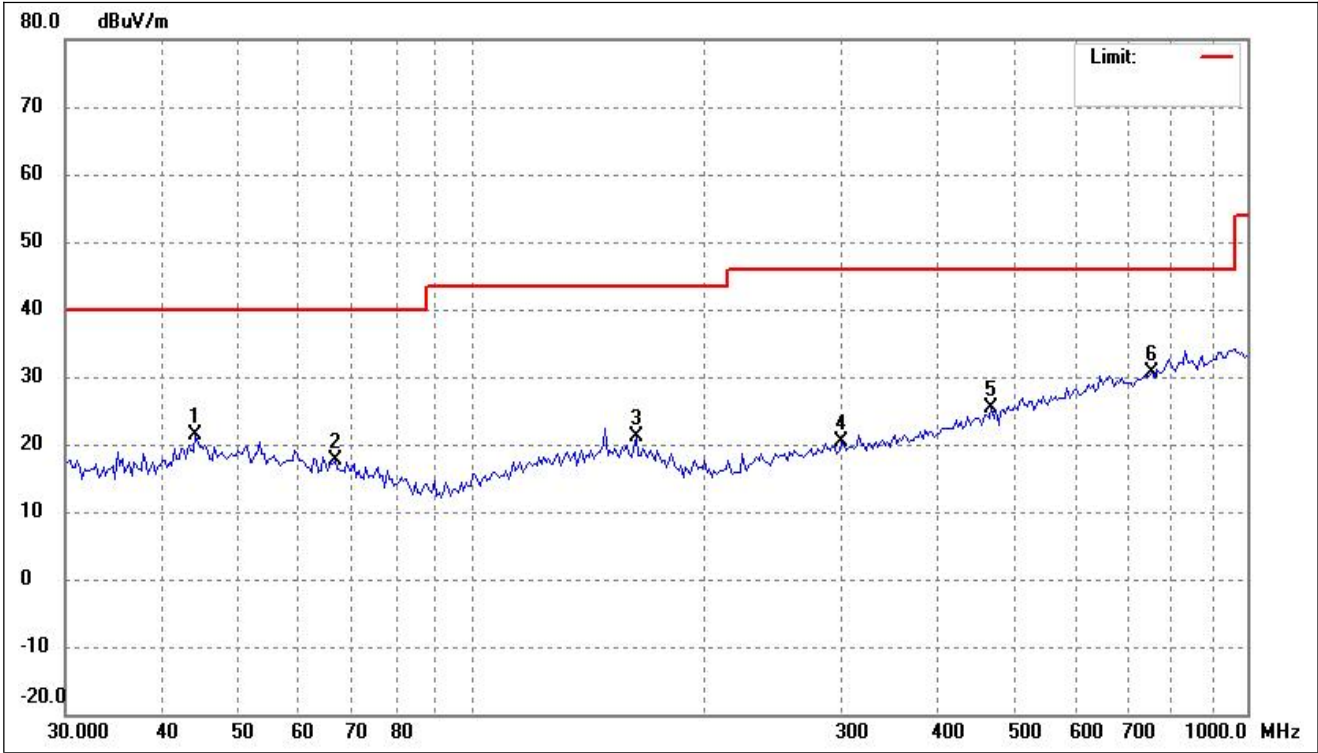
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	44.4657	29.54	-8.40	21.14	40.00	-18.86	-	-	peak
2	75.3208	28.89	-11.46	17.43	40.00	-22.57	-	-	peak
3	148.9173	30.77	-8.57	22.20	43.50	-21.30	-	-	peak
4	329.4624	28.52	-7.56	20.96	46.00	-25.04	-	-	peak
5	642.2923	29.33	-0.40	28.93	46.00	-17.07	-	-	peak
6	833.0126	39.16	1.67	40.83	46.00	-5.17	-	-	peak

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



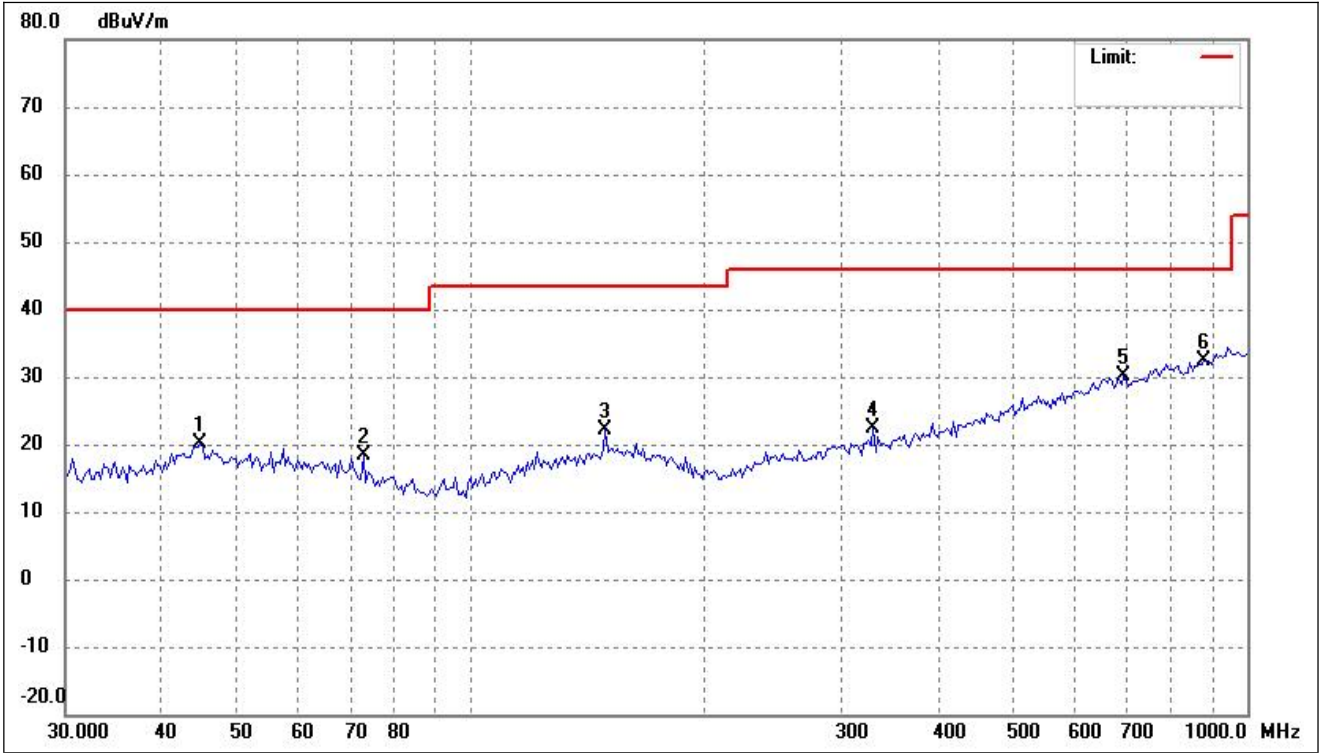
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.0627	28.13	-8.30	19.83	40.00	-20.17	-	-	peak
2	106.2811	27.69	-11.85	15.84	43.50	-27.66	-	-	peak
3	168.9970	28.63	-8.64	19.99	43.50	-23.51	-	-	peak
4	331.7857	28.98	-7.52	21.46	46.00	-24.54	-	-	peak
5	509.3558	29.39	-3.33	26.06	46.00	-19.94	-	-	peak
6	827.1794	29.95	1.67	31.62	46.00	-14.38	-	-	peak

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



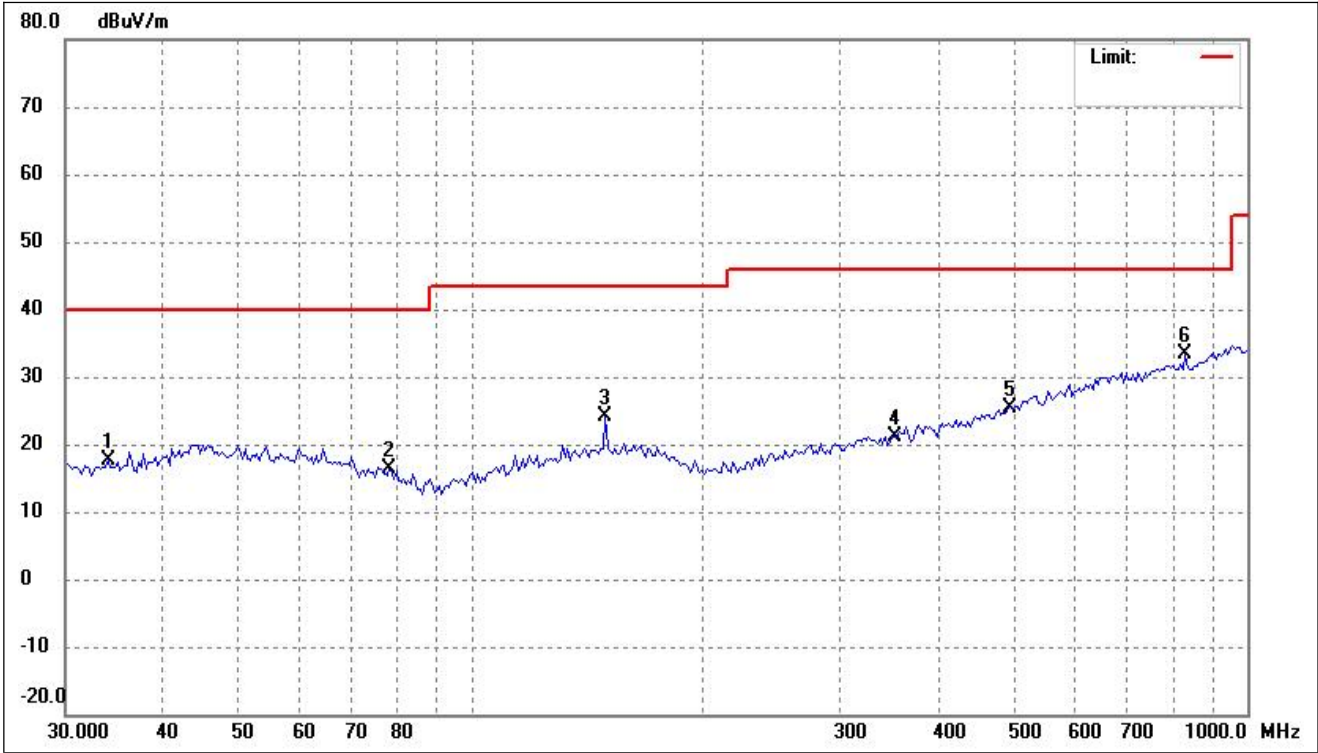
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	44.1543	29.70	-8.42	21.28	40.00	-18.72	-	-	peak
2	66.8395	27.50	-9.82	17.68	40.00	-22.32	-	-	peak
3	163.1622	29.41	-8.37	21.04	43.50	-22.46	-	-	peak
4	300.6988	28.67	-8.28	20.39	46.00	-25.61	-	-	peak
5	468.1650	29.82	-4.40	25.42	46.00	-20.58	-	-	peak
6	754.9627	29.38	1.19	30.57	46.00	-15.43	-	-	peak

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



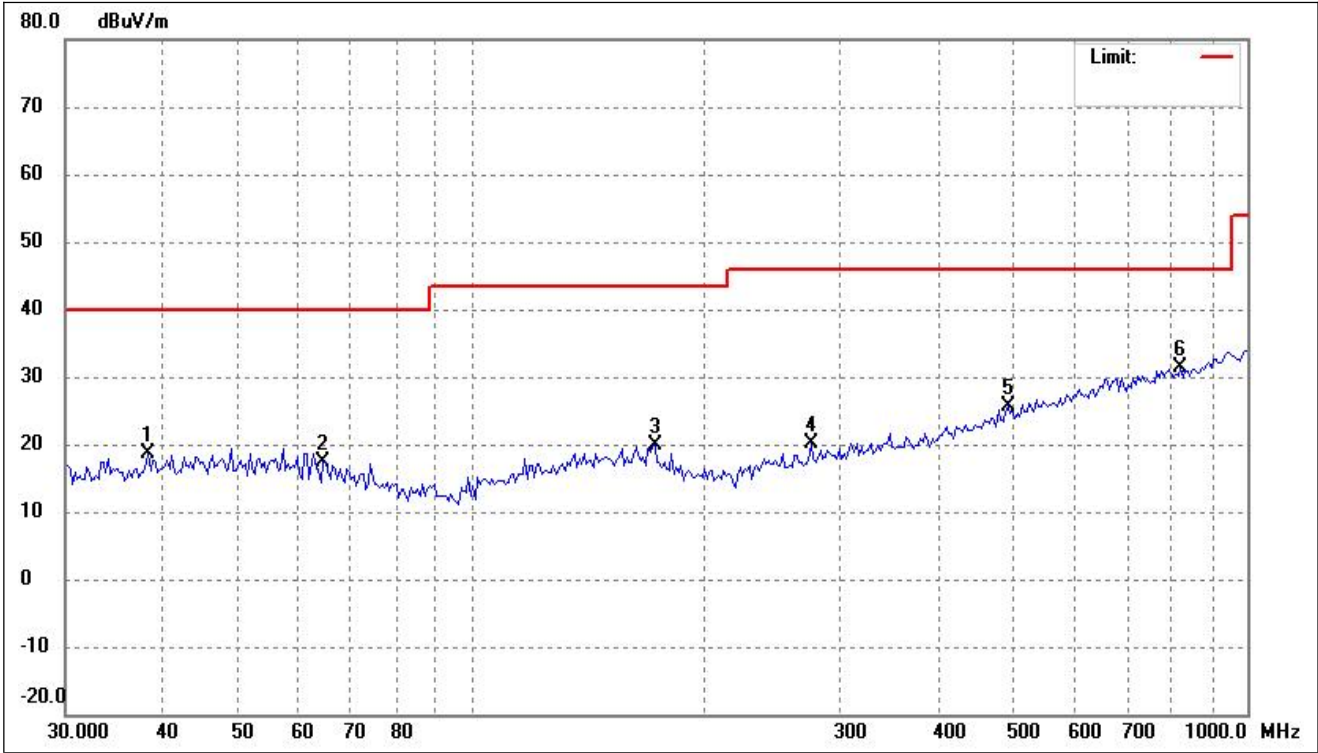
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	44.7793	28.40	-8.38	20.02	40.00	-19.98	-	-	peak
2	72.7203	29.33	-10.92	18.41	40.00	-21.59	-	-	peak
3	148.9173	30.72	-8.57	22.15	43.50	-21.35	-	-	peak
4	329.4624	29.84	-7.56	22.28	46.00	-23.72	-	-	peak
5	693.9101	29.95	0.16	30.11	46.00	-15.89	-	-	peak
6	881.1837	30.19	2.25	32.44	46.00	-13.56	-	-	peak

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



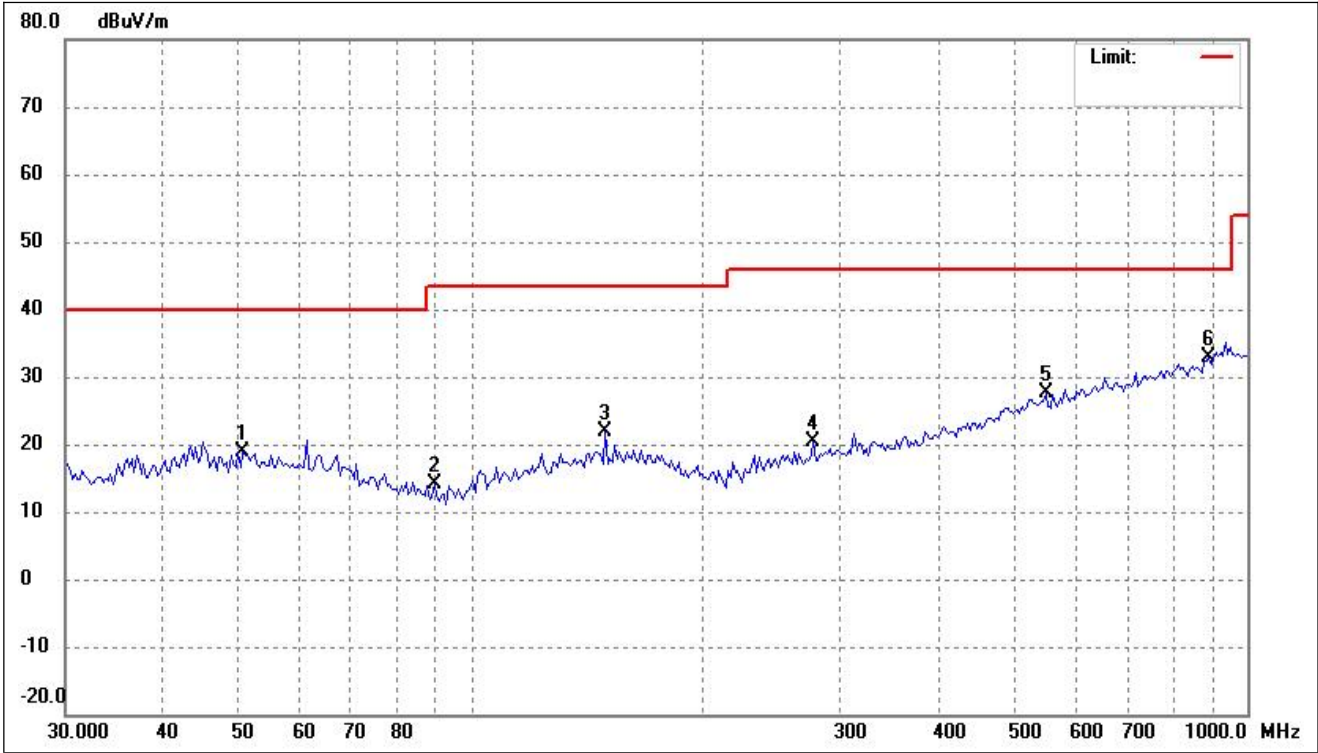
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	34.0451	27.16	-9.61	17.55	40.00	-22.45	-	-	peak
2	78.5645	28.47	-12.07	16.40	40.00	-23.60	-	-	peak
3	148.9175	32.71	-8.57	24.14	43.50	-19.36	-	-	peak
4	350.9722	28.54	-7.37	21.17	46.00	-24.83	-	-	peak
5	491.7700	29.11	-3.80	25.31	46.00	-20.69	-	-	peak
6	833.0127	31.82	1.67	33.49	46.00	-12.51	-	-	peak

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



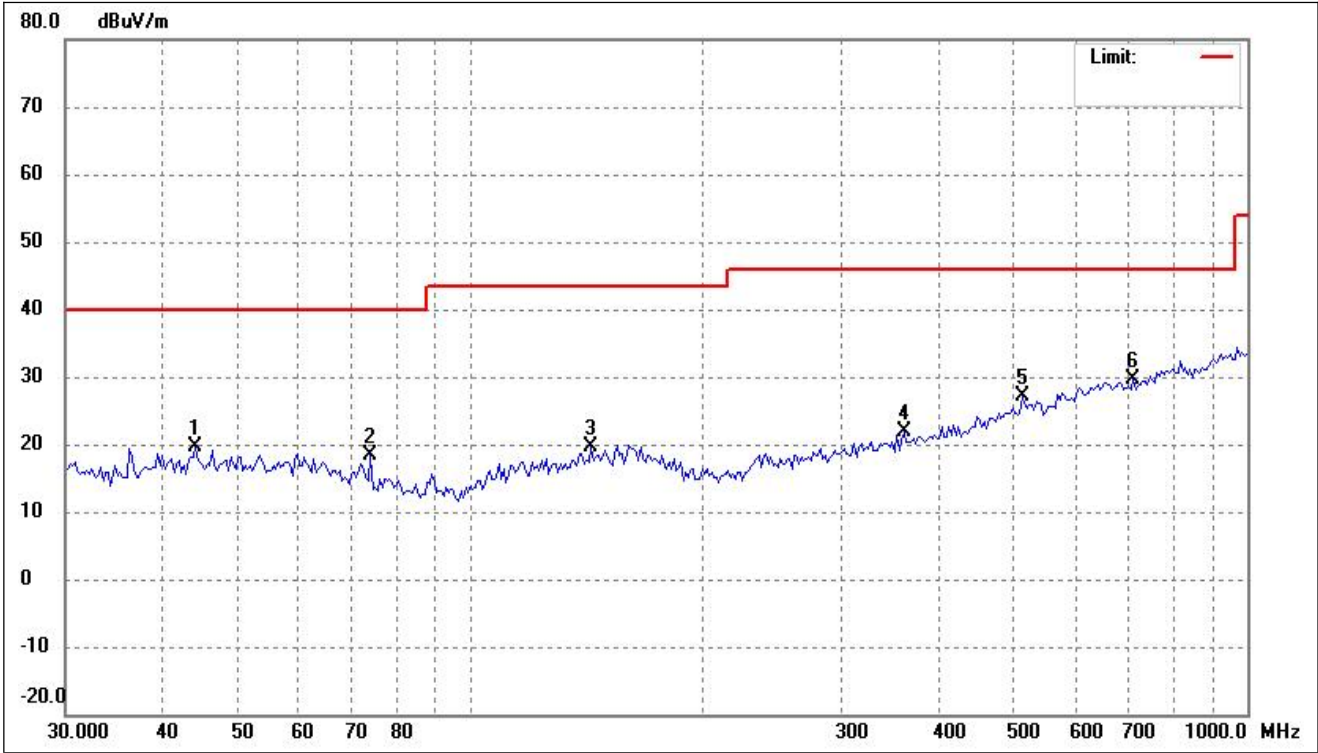
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.3651	27.71	-9.05	18.66	40.00	-21.34	-	-	peak
2	64.5318	26.92	-9.45	17.47	40.00	-22.53	-	-	peak
3	172.5975	28.93	-8.96	19.97	43.50	-23.53	-	-	peak
4	274.4463	29.26	-9.02	20.24	46.00	-25.76	-	-	peak
5	491.7699	29.34	-3.80	25.54	46.00	-20.46	-	-	peak
6	821.3871	29.82	1.68	31.50	46.00	-14.50	-	-	peak

802.11ac-HT80			
Test Channel	5210MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.8172	27.25	-8.28	18.97	40.00	-21.03	-	-	peak
2	89.7866	27.92	-13.68	14.24	43.50	-29.26	-	-	peak
3	148.9173	30.39	-8.57	21.82	43.50	-21.68	-	-	peak
4	276.3817	29.25	-8.95	20.30	46.00	-25.70	-	-	peak
5	550.2902	30.29	-2.77	27.52	46.00	-18.48	-	-	peak
6	893.6556	30.30	2.50	32.80	46.00	-13.20	-	-	peak

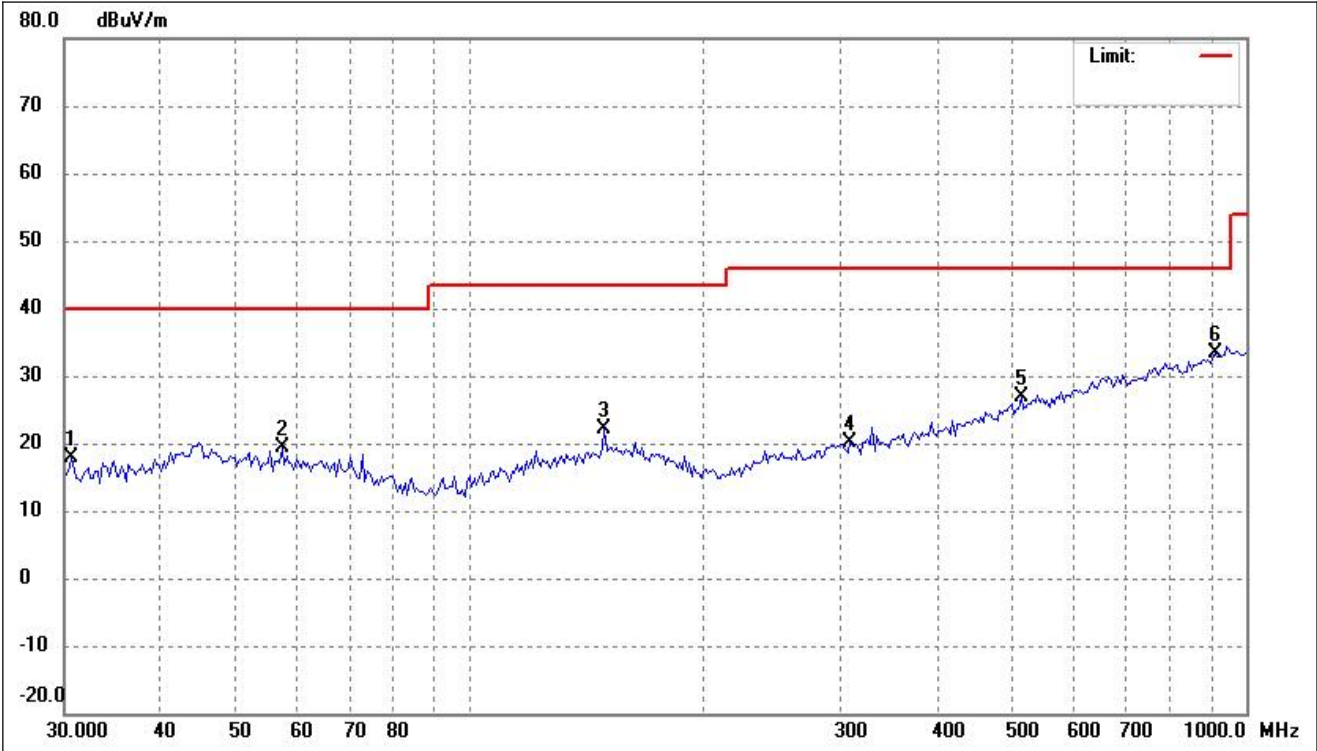
802.11ac-HT80			
Test Channel	5210MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	44.1543	28.05	-8.42	19.63	40.00	-20.37	-	-	peak
2	74.2696	29.71	-11.23	18.48	40.00	-21.52	-	-	peak
3	142.7691	28.44	-8.79	19.65	43.50	-23.85	-	-	peak
4	360.9774	28.95	-7.16	21.79	46.00	-24.21	-	-	peak
5	512.9477	30.36	-3.23	27.13	46.00	-18.87	-	-	peak
6	713.6917	29.23	0.45	29.68	46.00	-16.32	-	-	peak

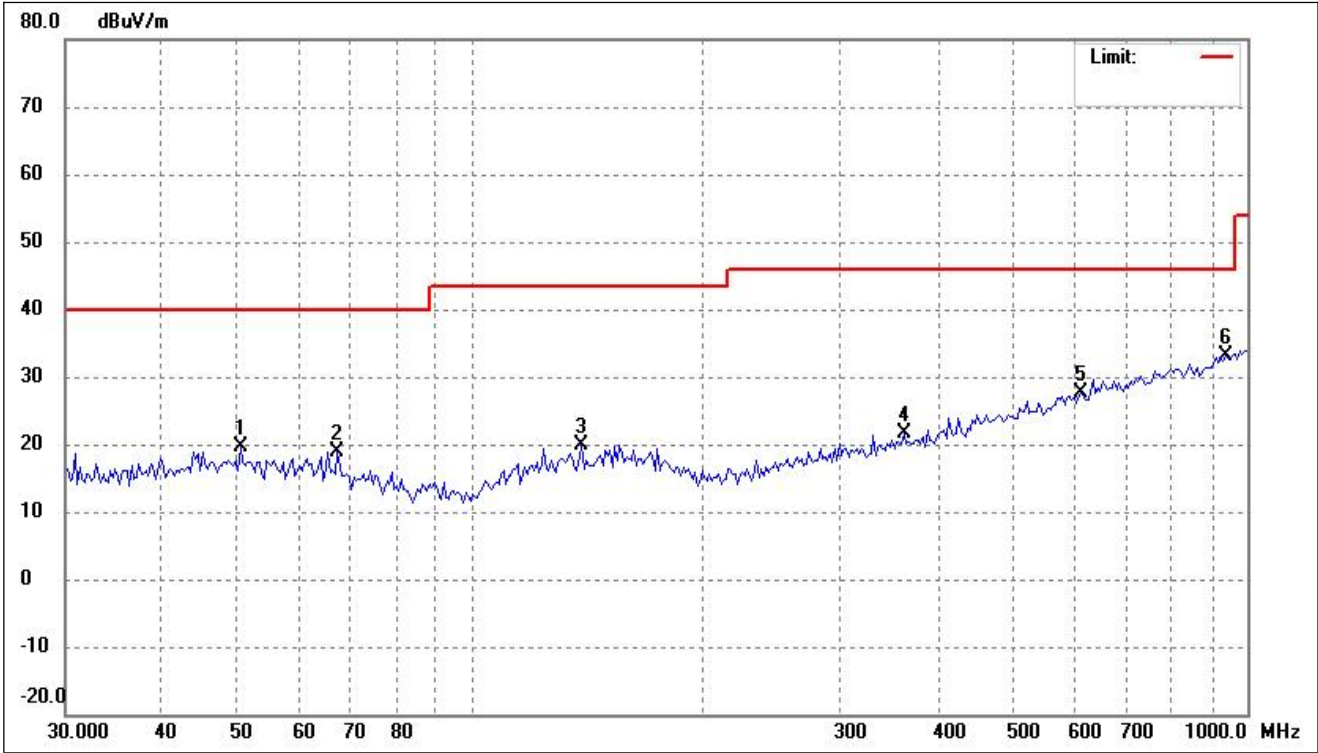
➤ 5250-5350MHz

802.11a			
Test Channel	5240MHz(worst case)	Polarity:	Horizontal



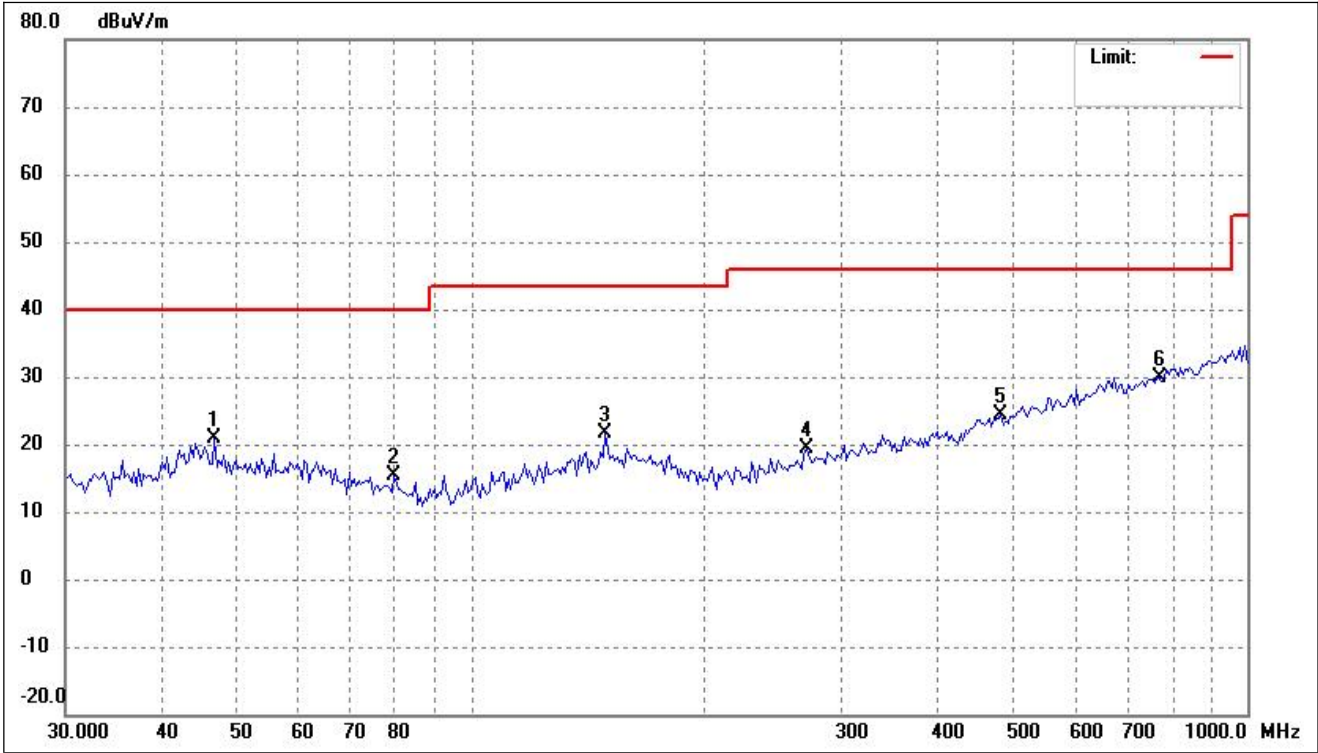
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	30.6391	27.44	-9.66	17.78	40.00	-22.22	-	-	peak
2	57.2654	28.06	-8.64	19.42	40.00	-20.58	-	-	peak
3	148.9173	30.72	-8.57	22.15	43.50	-21.35	-	-	peak
4	309.2709	28.20	-8.08	20.12	46.00	-25.88	-	-	peak
5	512.9477	30.22	-3.23	26.99	46.00	-19.01	-	-	peak
6	912.6952	30.46	2.88	33.34	46.00	-12.66	-	-	peak

802.11a			
Test Channel	5240MHz(worst case)	Polarity:	Vertical



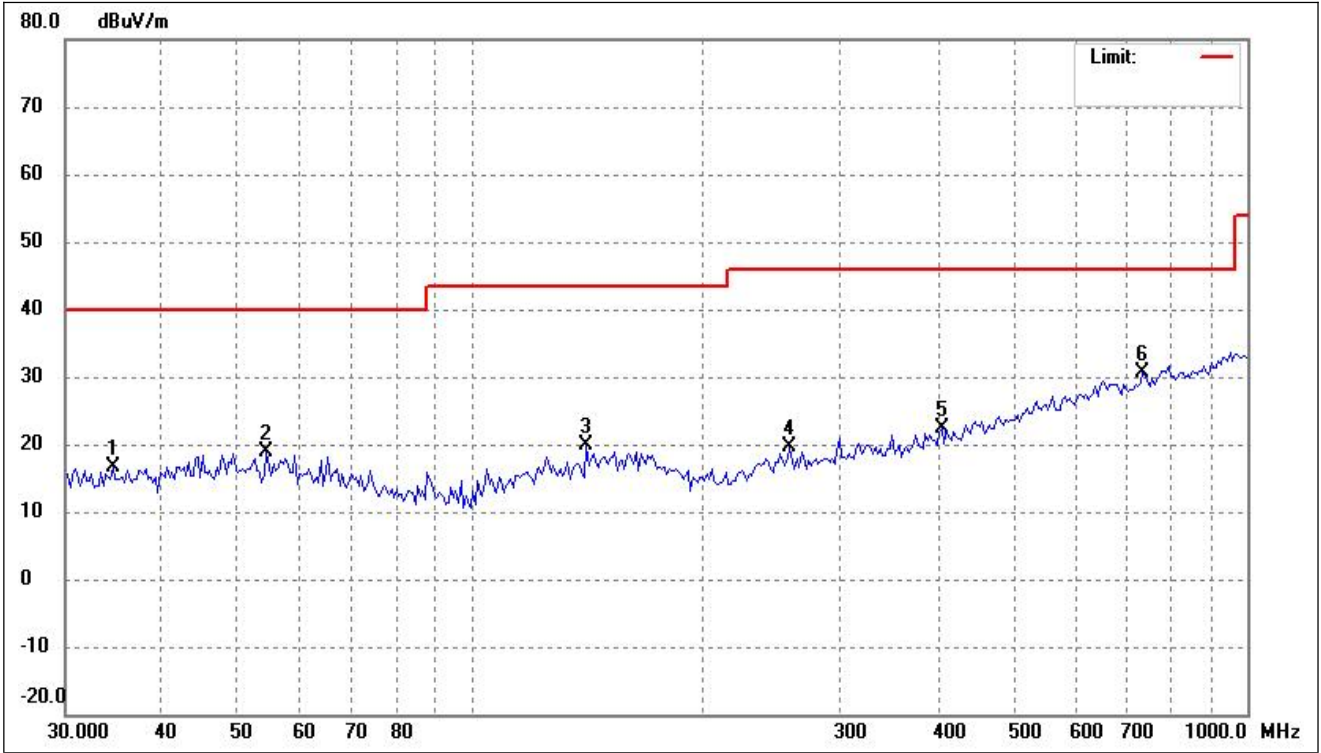
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.4613	27.87	-8.28	19.59	40.00	-20.41	-	-	peak
2	67.3108	28.87	-9.92	18.95	40.00	-21.05	-	-	peak
3	138.8119	29.05	-9.07	19.98	43.50	-23.52	-	-	peak
4	360.9774	28.79	-7.16	21.63	46.00	-24.37	-	-	peak
5	611.4623	28.55	-0.89	27.66	46.00	-18.34	-	-	peak
6	938.7139	29.69	3.38	33.07	46.00	-12.93	-	-	peak

802.11ac-VHT20			
Test Channel	5240MHz(worst case)	Polarity:	Horizontal



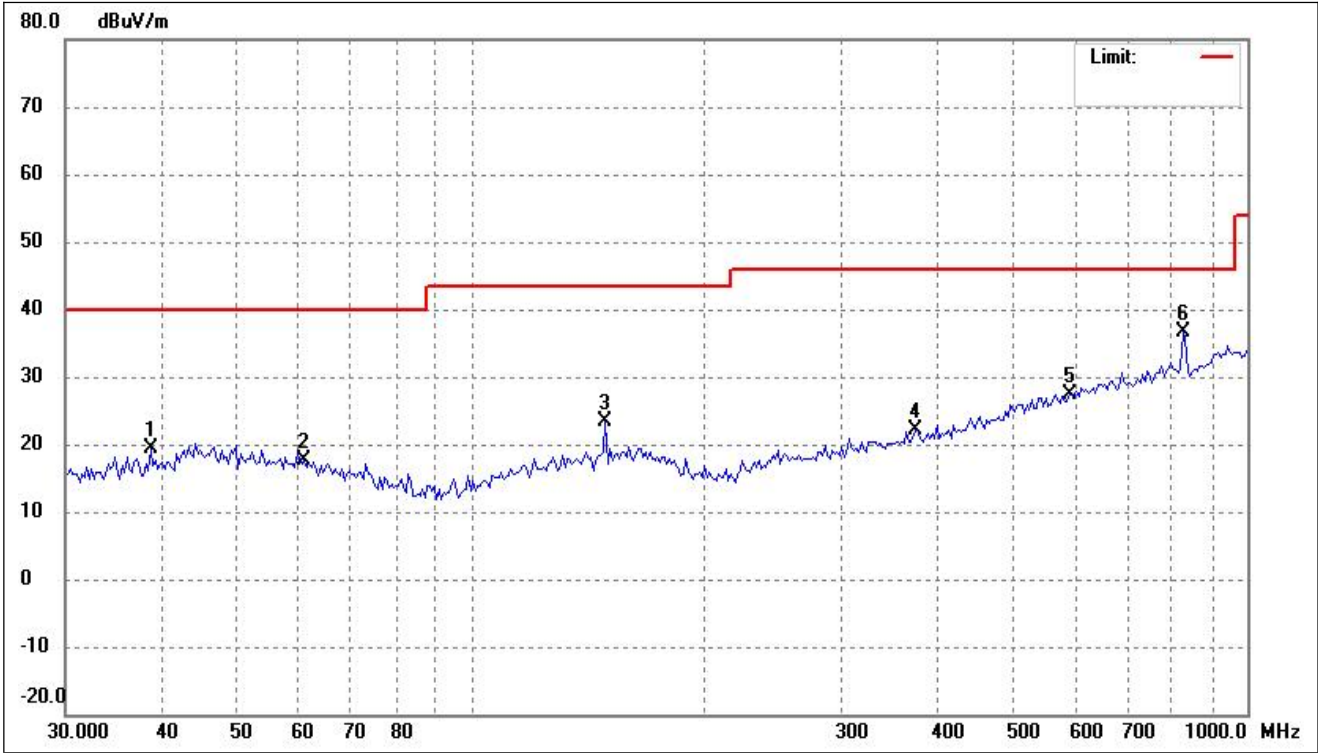
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	46.7077	29.31	-8.32	20.99	40.00	-19.01	-	-	peak
2	79.6764	27.63	-12.28	15.35	40.00	-24.65	-	-	peak
3	148.9173	30.32	-8.57	21.75	43.50	-21.75	-	-	peak
4	270.6162	28.63	-9.24	19.39	46.00	-26.61	-	-	peak
5	481.5112	28.47	-4.10	24.37	46.00	-21.63	-	-	peak
6	771.0475	28.52	1.37	29.89	46.00	-16.11	-	-	peak

802.11ac-VHT20			
Test Channel	5240MHz(worst case)	Polarity:	Vertical



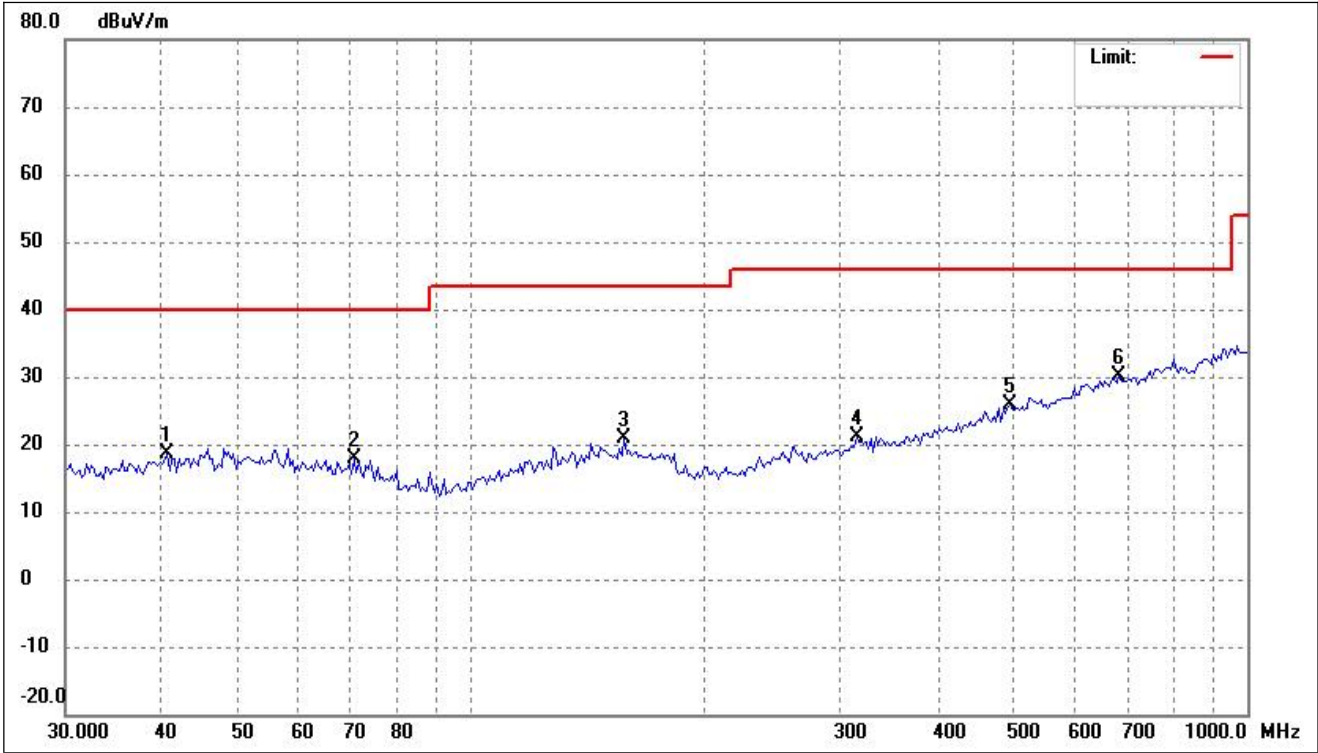
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	34.5269	26.30	-9.57	16.73	40.00	-23.27	-	-	peak
2	54.5166	27.29	-8.47	18.82	40.00	-21.18	-	-	peak
3	140.7766	28.72	-8.90	19.82	43.50	-23.68	-	-	peak
4	257.6266	29.41	-9.77	19.64	46.00	-26.36	-	-	peak
5	403.9335	28.57	-6.16	22.41	46.00	-23.59	-	-	peak
6	734.0372	29.67	0.84	30.51	46.00	-15.49	-	-	peak

802.11ac-VHT40			
Test Channel	5230MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.6355	28.30	-9.02	19.28	40.00	-20.72	-	-	peak
2	61.0041	26.53	-9.00	17.53	40.00	-22.47	-	-	peak
3	148.9173	31.85	-8.57	23.28	43.50	-20.22	-	-	peak
4	373.8861	28.92	-6.88	22.04	46.00	-23.96	-	-	peak
5	590.3511	28.51	-1.19	27.32	46.00	-18.68	-	-	peak
6	827.1794	35.06	1.67	36.73	46.00	-9.27	-	-	peak

802.11ac-VHT40			
Test Channel	5230MHz(worst case)	Polarity:	Vertical

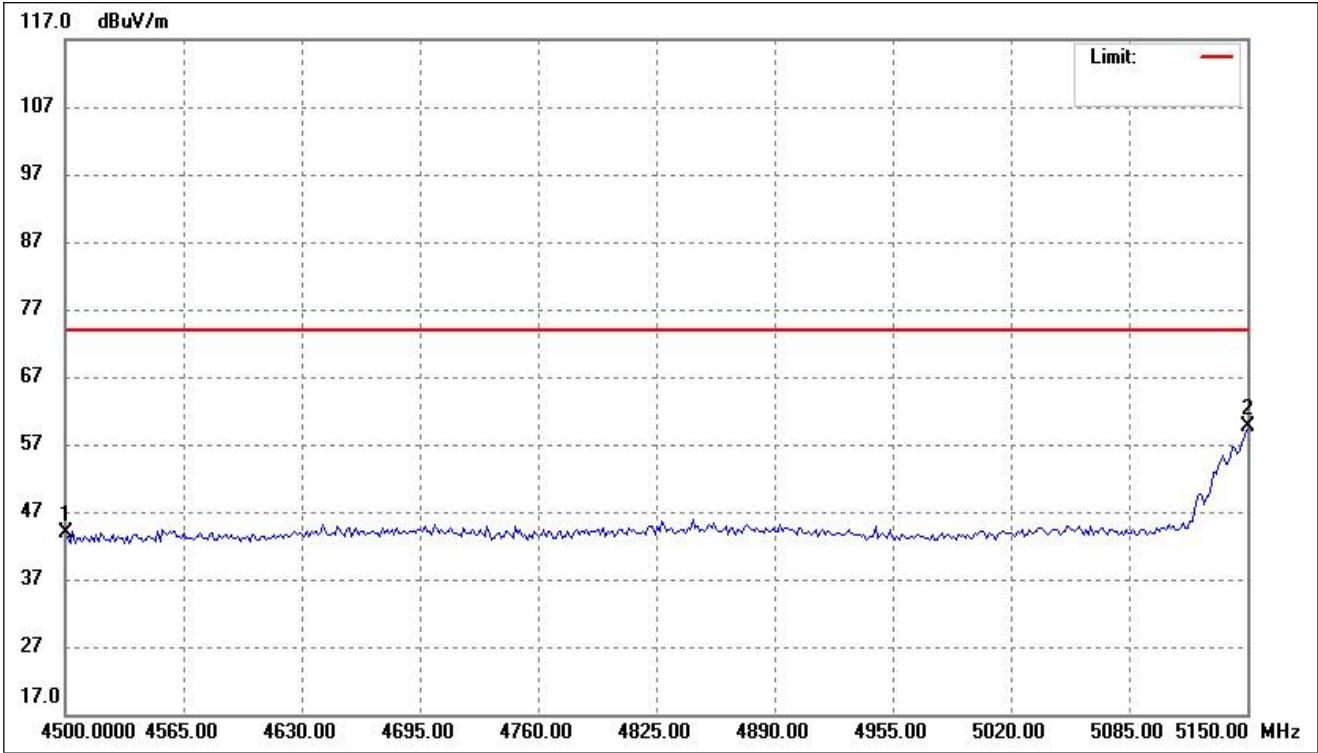


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	40.5836	27.41	-8.82	18.59	40.00	-21.41	-	-	peak
2	70.7047	28.49	-10.56	17.93	40.00	-22.07	-	-	peak
3	157.5289	29.14	-8.31	20.83	43.50	-22.67	-	-	peak
4	313.6482	28.96	-7.94	21.02	46.00	-24.98	-	-	peak
5	495.2379	29.48	-3.70	25.78	46.00	-20.22	-	-	peak
6	684.2258	29.93	0.10	30.03	46.00	-15.97	-	-	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.

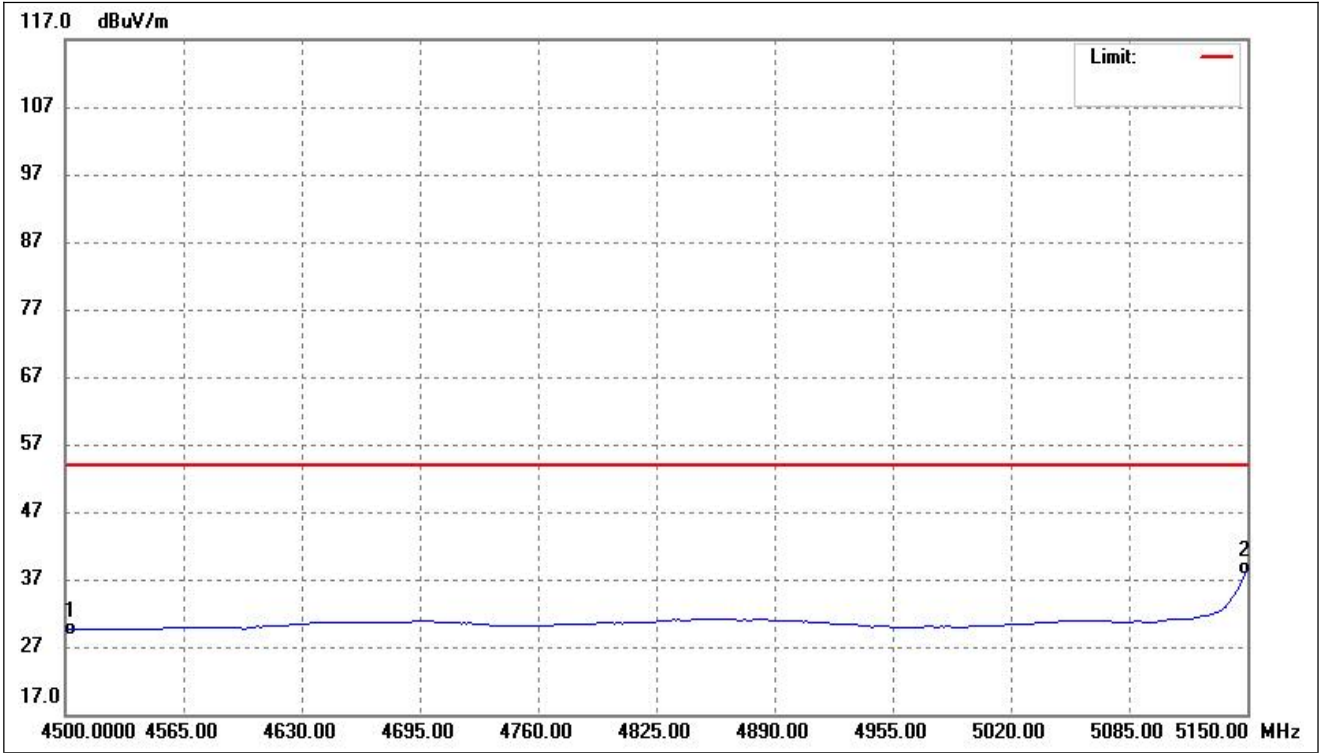
➤ Spurious Emission above 1GHz

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



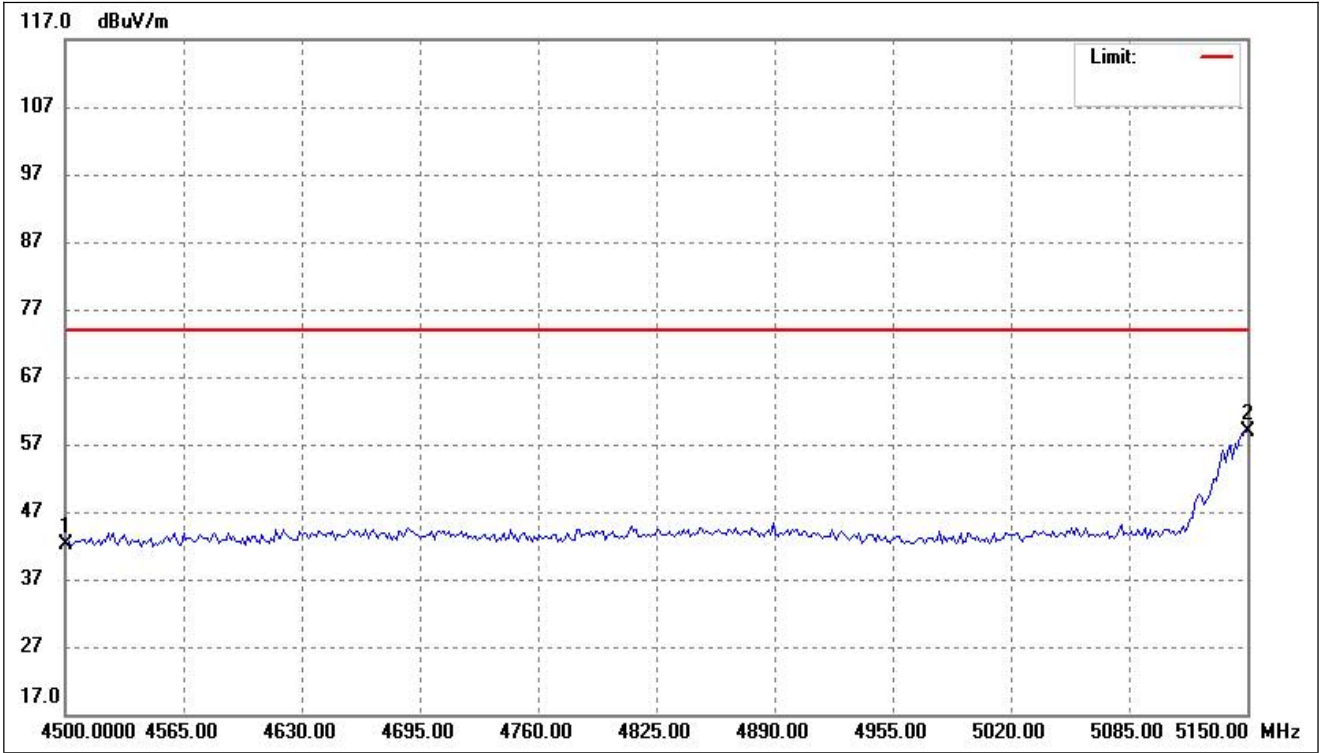
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	4500.000	56.81	-12.99	43.82	74.00	-30.18	-	-	peak
2	5150.000	71.06	-11.49	59.57	74.00	-14.43	-	-	peak

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



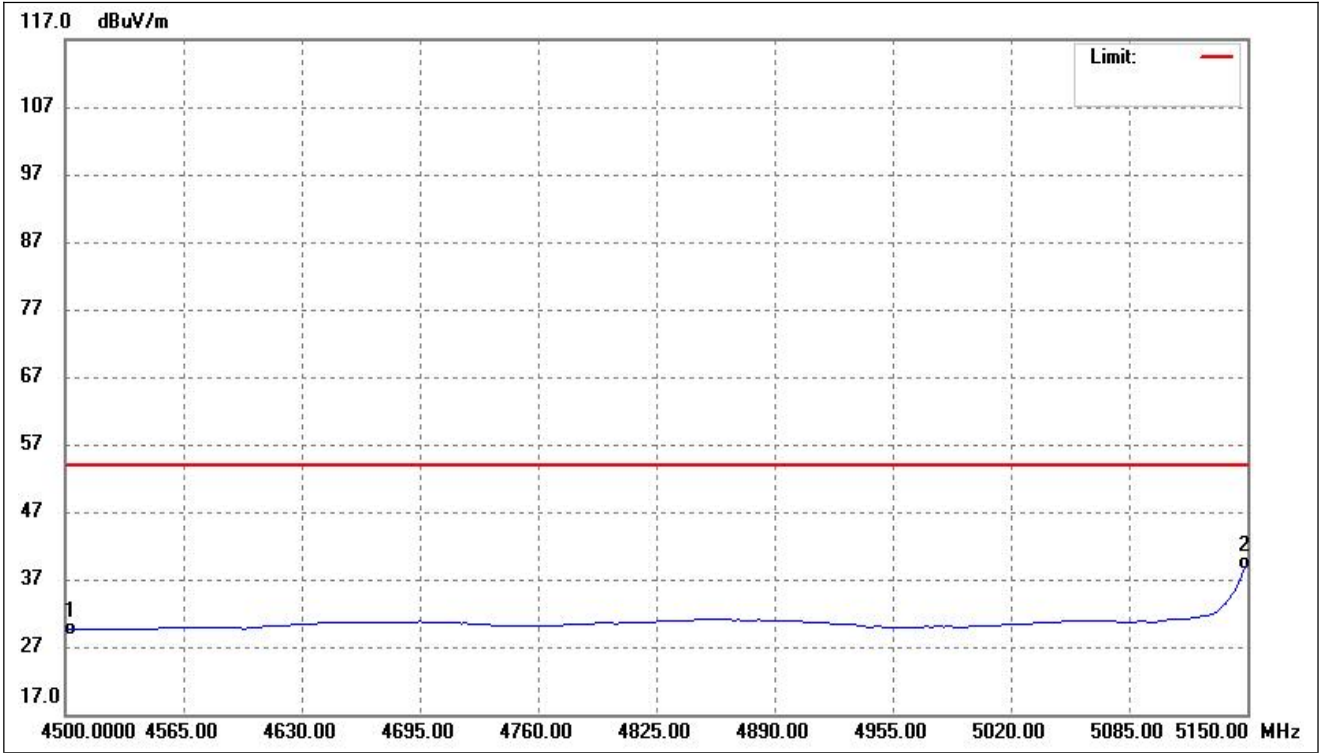
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	4500.000	42.62	-12.99	29.63	54.00	-24.37	-	-	AVG
2	5150.000	50.15	-11.49	38.66	54.00	-15.34	-	-	AVG

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



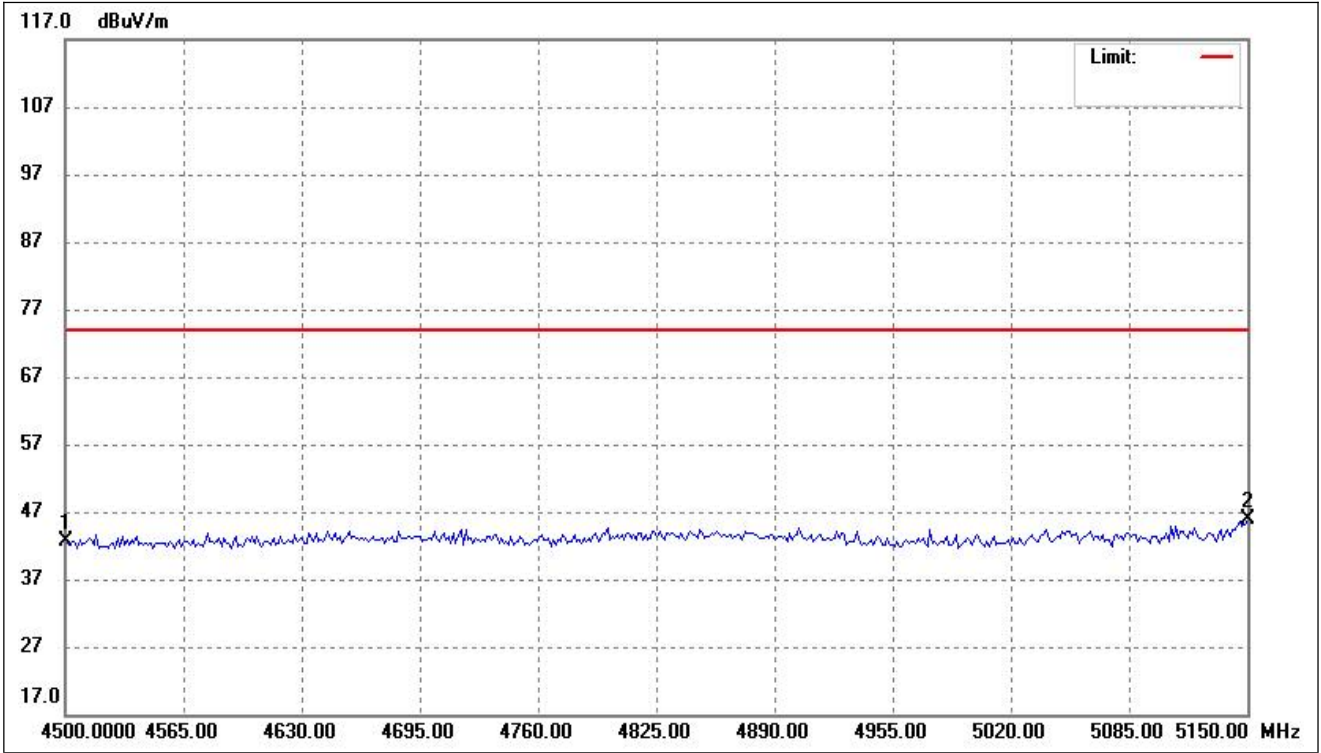
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	4500.000	55.19	-12.99	42.20	74.00	-31.80	-	-	peak
2	5150.000	70.47	-11.49	58.98	74.00	-15.02	-	-	peak

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



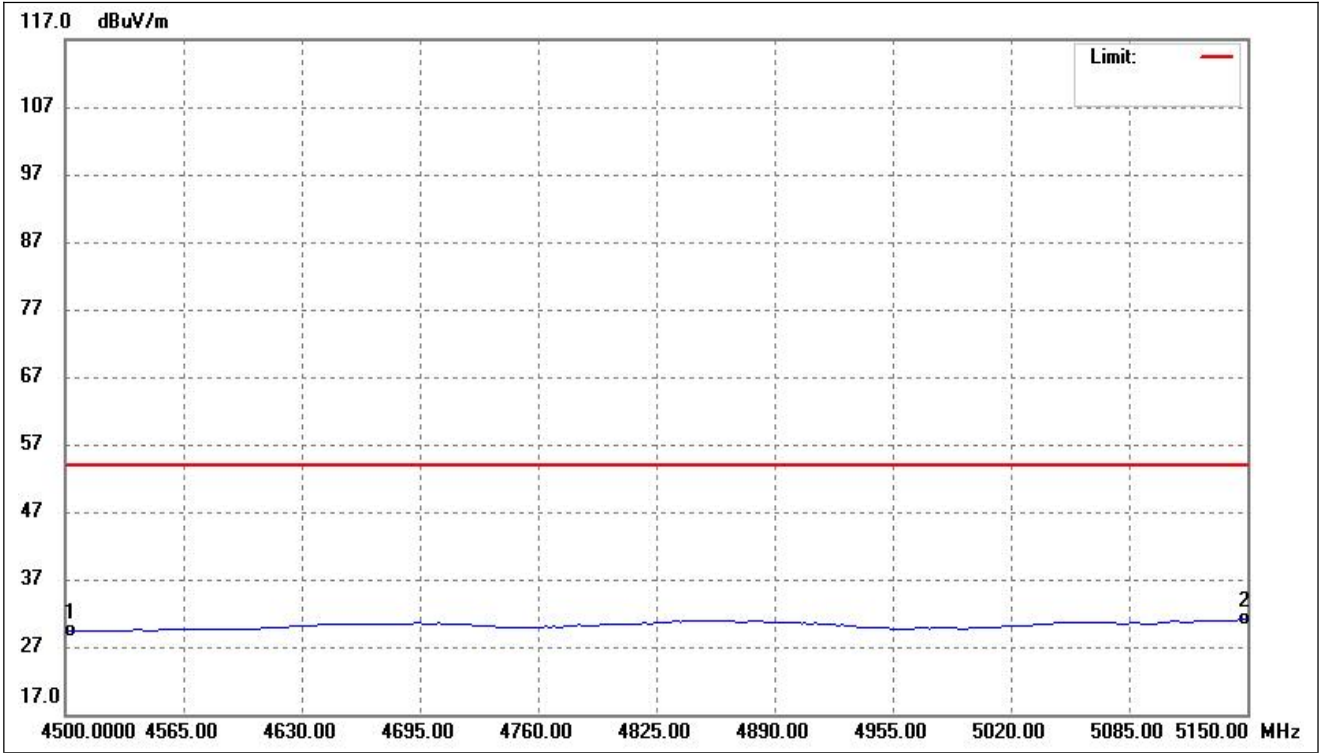
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	4500.000	42.67	-12.99	29.68	54.00	-24.32	-	-	AVG
2	5150.000	50.95	-11.49	39.46	54.00	-14.54	-	-	AVG

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



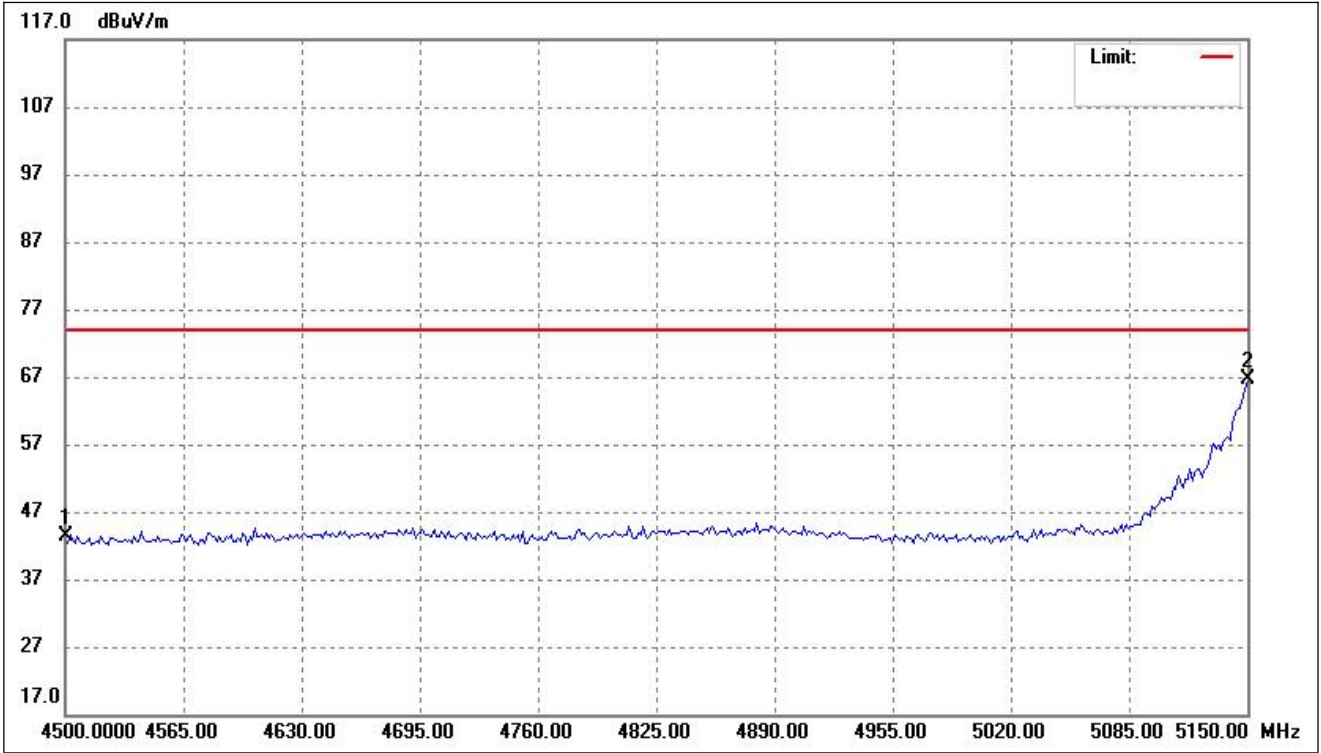
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	4500.000	55.50	-12.99	42.51	74.00	-31.49	-	-	peak
2	5150.000	57.29	-11.49	45.80	74.00	-28.20	-	-	peak

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



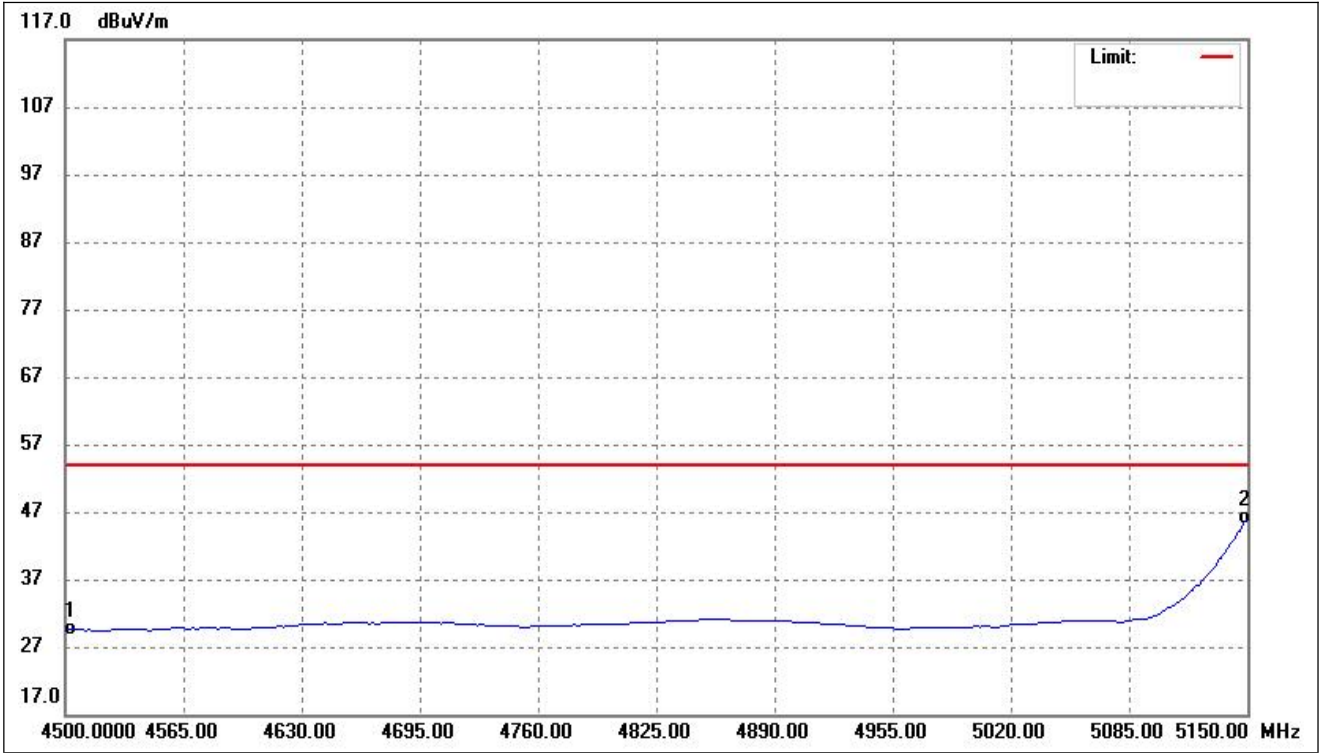
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	4500.000	42.40	-12.99	29.41	54.00	-24.59	-	-	AVG
2	5150.000	42.71	-11.49	31.22	54.00	-22.78	-	-	AVG

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



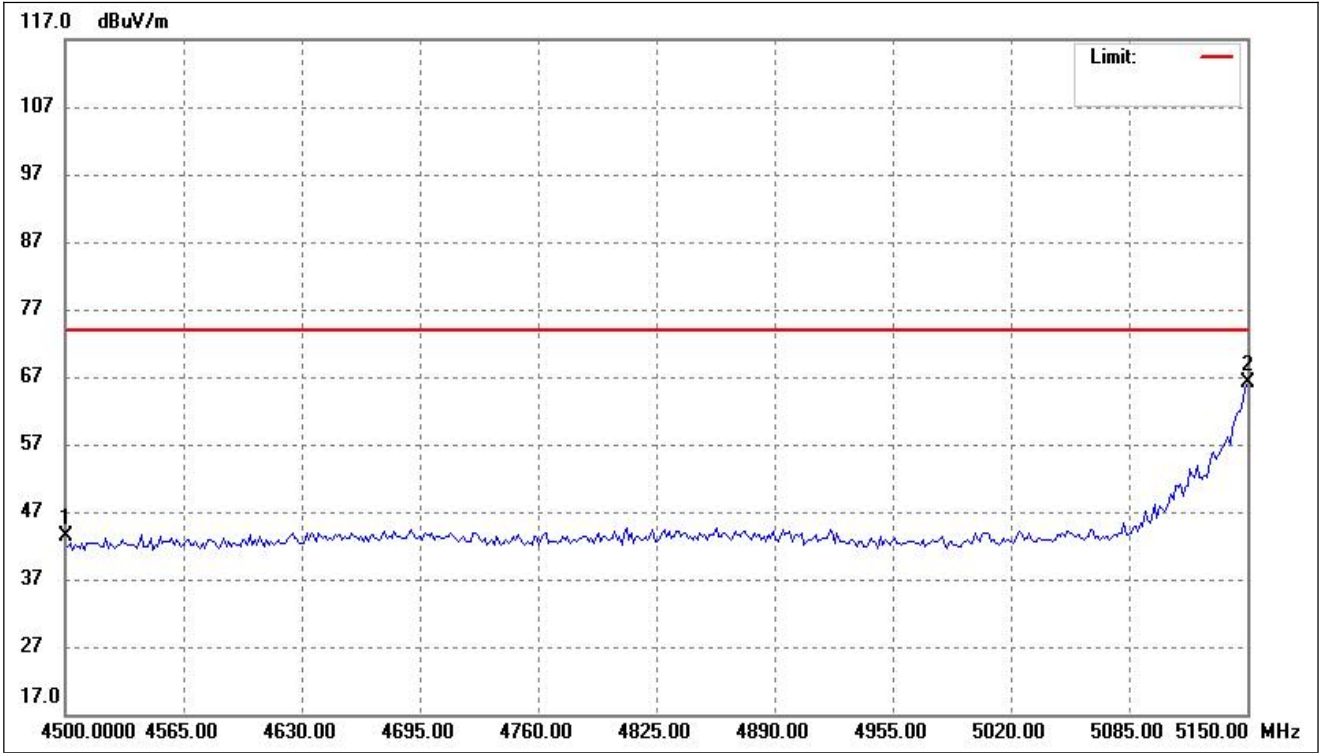
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	4500.000	56.31	-12.99	43.32	74.00	-30.68	-	-	peak
2	5150.000	78.09	-11.49	66.60	74.00	-7.40	-	-	peak

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



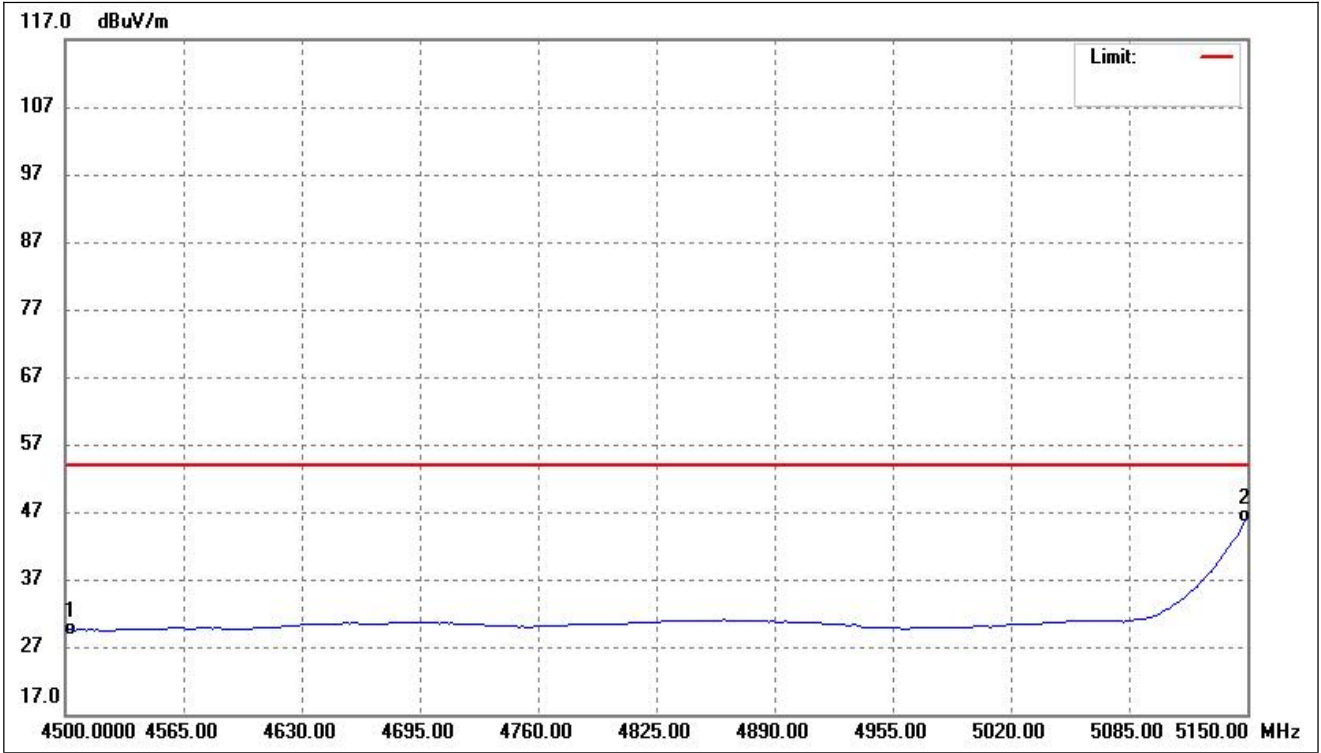
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	4500.000	42.55	-12.99	29.56	54.00	-24.44	-	-	AVG
2	5150.000	57.73	-11.49	46.24	54.00	-7.76	-	-	AVG

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



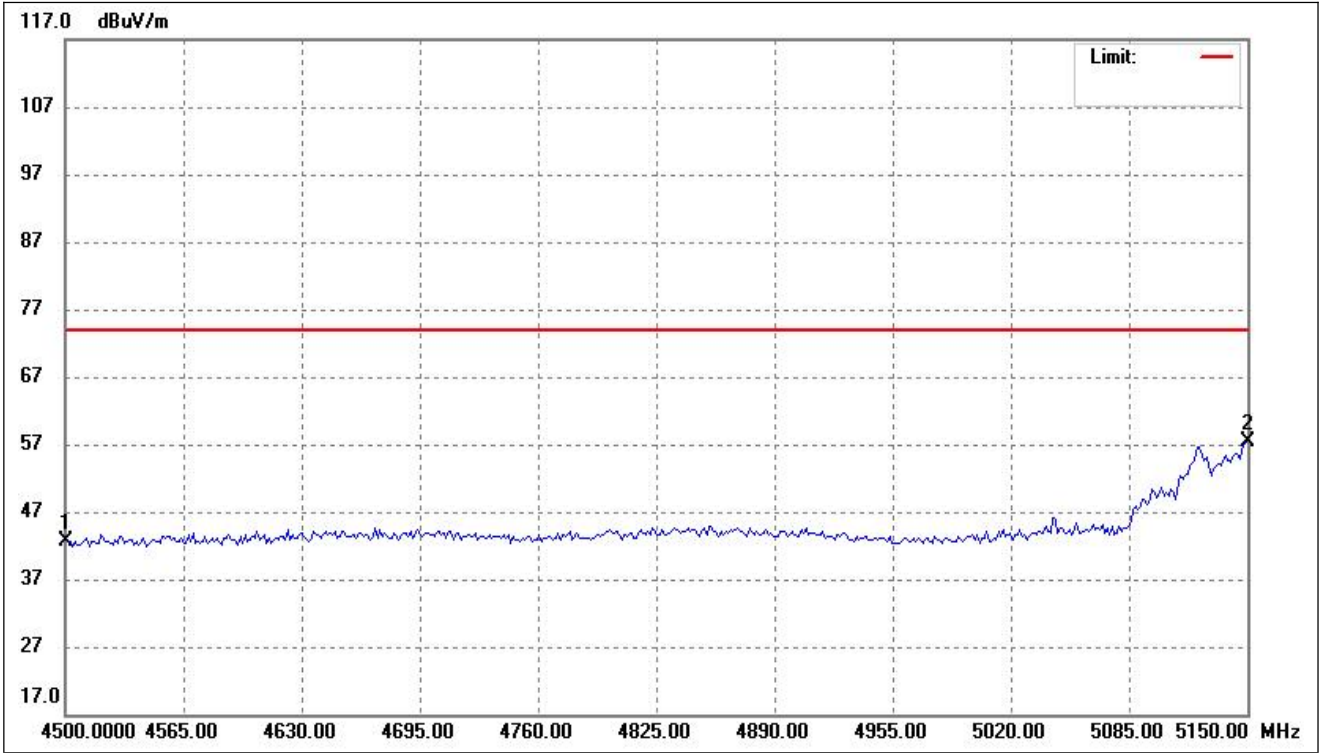
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	4500.000	56.40	-12.99	43.41	74.00	-30.59	-	-	peak
2	5150.000	77.65	-11.49	66.16	74.00	-7.84	-	-	peak

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



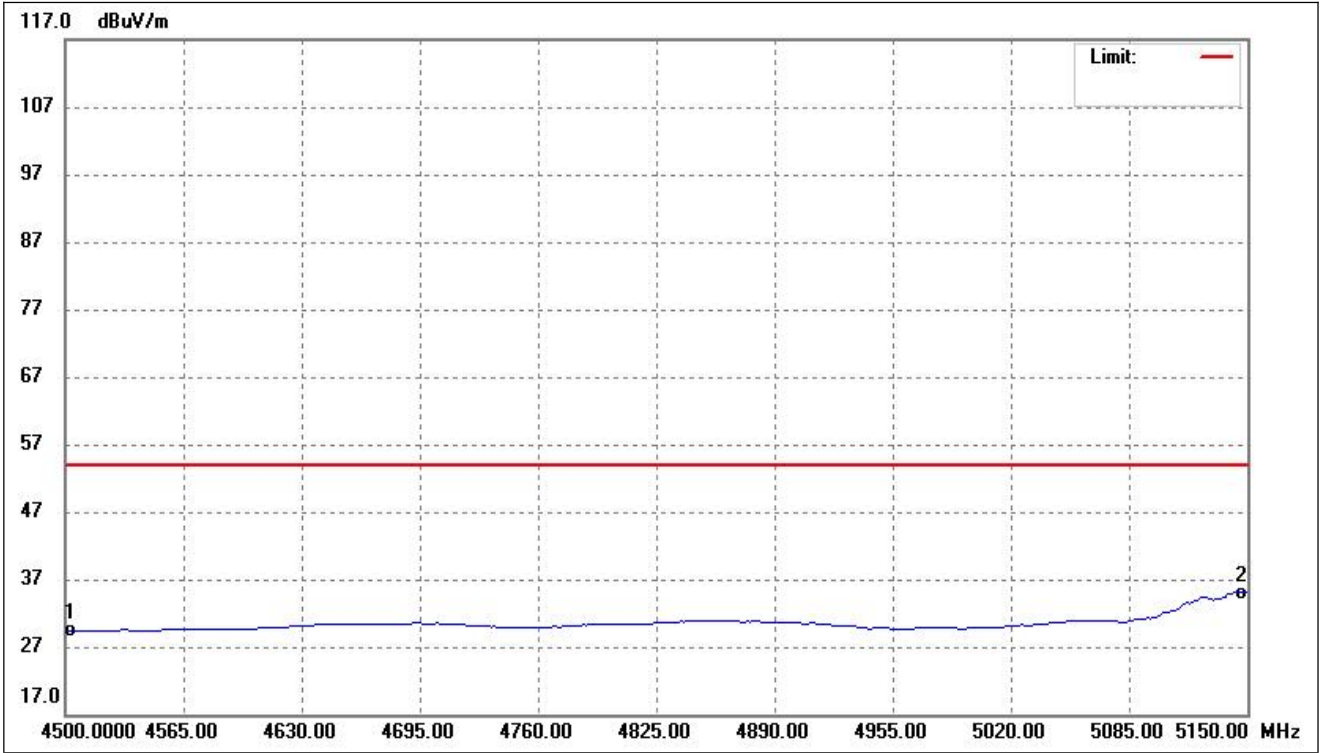
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	4500.000	42.50	-12.99	29.51	54.00	-24.49	-	-	AVG
2	5150.000	57.90	-11.49	46.41	54.00	-7.59	-	-	AVG

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	4500.000	55.61	-12.99	42.62	74.00	-31.38	-	-	peak
2	5150.000	68.77	-11.49	57.28	74.00	-16.72	-	-	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	4500.000	42.47	-12.99	29.48	54.00	-24.52	-	-	AVG
2	5150.000	46.43	-11.49	34.94	54.00	-19.06	-	-	AVG

802.11a- Restricted Bandedge			
Test Channel	band 5.25-5.35GHz	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	5350.000	77.50	-9.62	67.88	74.00	-6.12	-	-	peak
2	5460.000	56.07	-9.39	46.68	74.00	-27.32	-	-	peak

802.11a- Restricted Bandedge			
Test Channel	band 5.25-5.35GHz	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	5350.000	56.76	-9.62	47.14	54.00	-6.86	-	-	AVG
2	5460.000	43.10	-9.39	33.71	54.00	-20.29	-	-	AVG

802.11n-HT20- Restricted Bandedge			
Test Channel	band 5.25-5.35GHz	Polarity:	Horizontal(worst case)



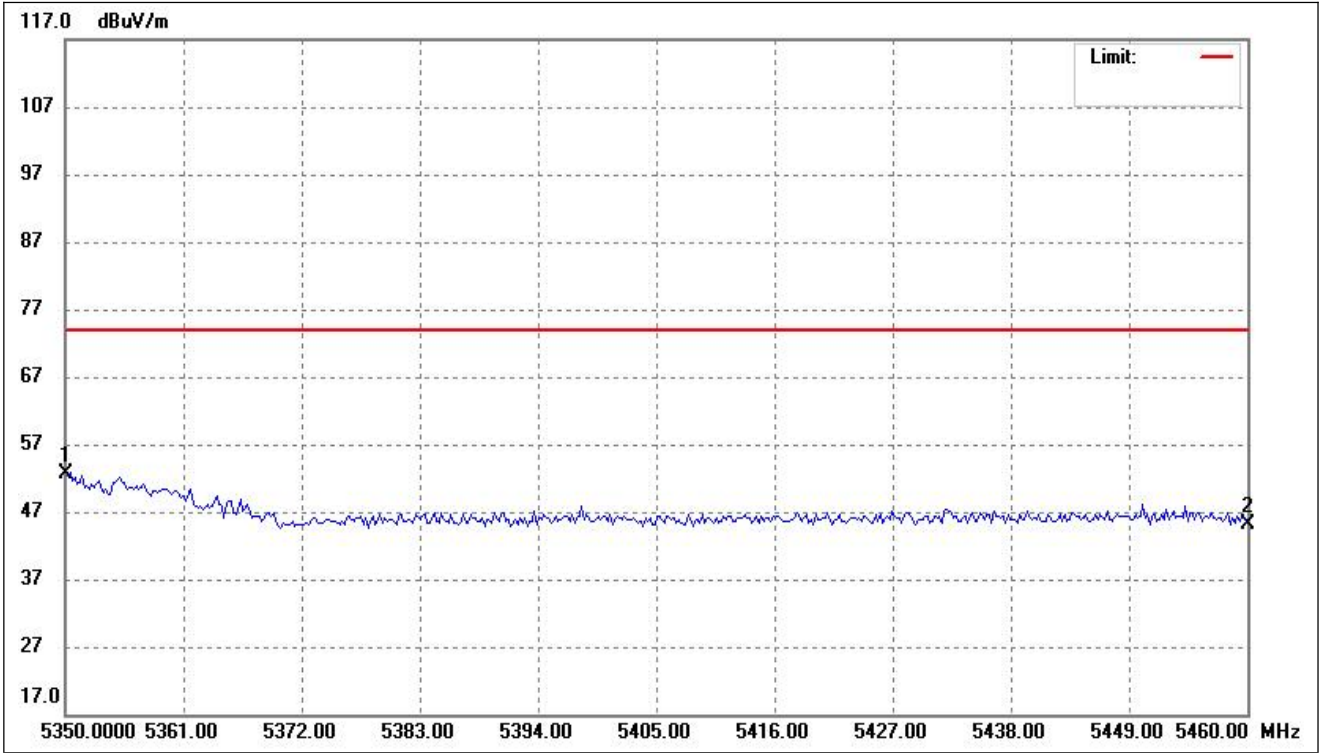
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5350.000	76.99	-9.62	67.37	74.00	-6.63	-	-	peak
2	5460.000	57.17	-9.39	47.78	74.00	-26.22	-	-	peak

802.11n-HT20- Restricted Bandedge			
Test Channel	Band 5.25-5.35GHz	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	5350.000	57.94	-9.62	48.32	54.00	-5.68	-	-	AVG
2	5460.000	43.03	-9.39	33.64	54.00	-20.36	-	-	AVG

802.11ac-VHT20- Restricted Bandedge			
Test Channel	band 5.25-5.35GHz	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	5350.000	62.24	-9.62	52.62	74.00	-21.38	-	-	peak
2	5460.000	54.51	-9.39	45.12	74.00	-28.88	-	-	peak

802.11ac-VHT20- Restricted Bandedge			
Test Channel	band 5.25-5.35GHz	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	5350.000	45.49	-9.62	35.87	54.00	-18.13	-	-	AVG
2	5460.000	42.92	-9.39	33.53	54.00	-20.47	-	-	AVG

802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.25-5.35GHz	Polarity:	Horizontal(worst case)



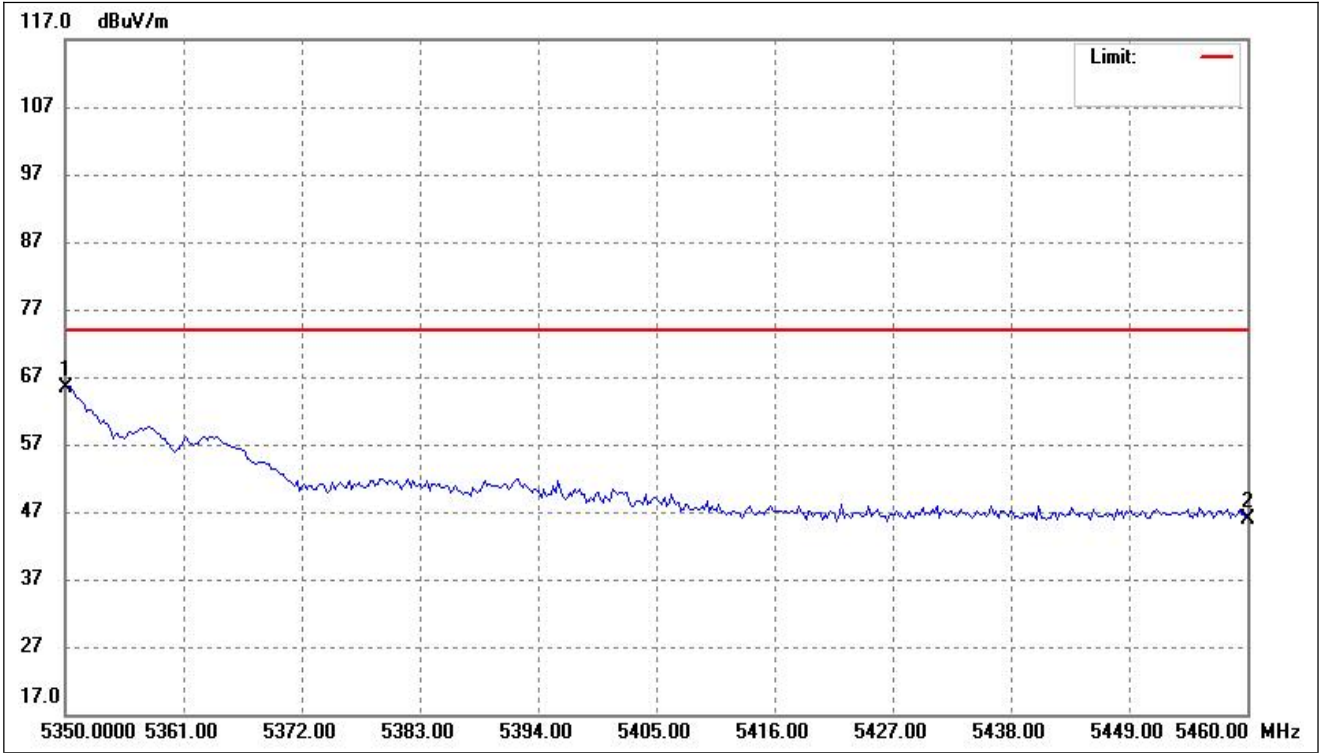
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5350.000	76.99	-9.62	67.37	74.00	-6.63	-	-	peak
2	5460.000	56.33	-9.39	46.94	74.00	-27.06	-	-	peak

802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.25-5.35GHz	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	5350.000	61.25	-9.62	51.63	54.00	-2.37	-	-	AVG
2	5460.000	43.14	-9.39	33.75	54.00	-20.25	-	-	AVG

802.11ac-VHT40- Restricted Bandedge			
Test Channel	band 5.25-5.35GHz	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	5350.000	75.12	-9.62	65.50	74.00	-8.50	-	-	peak
2	5460.000	55.37	-9.39	45.98	74.00	-28.02	-	-	peak

802.11ac-VHT40- Restricted Bandedge			
Test Channel	band 5.25-5.35GHz	Polarity:	Horizontal(worst case)



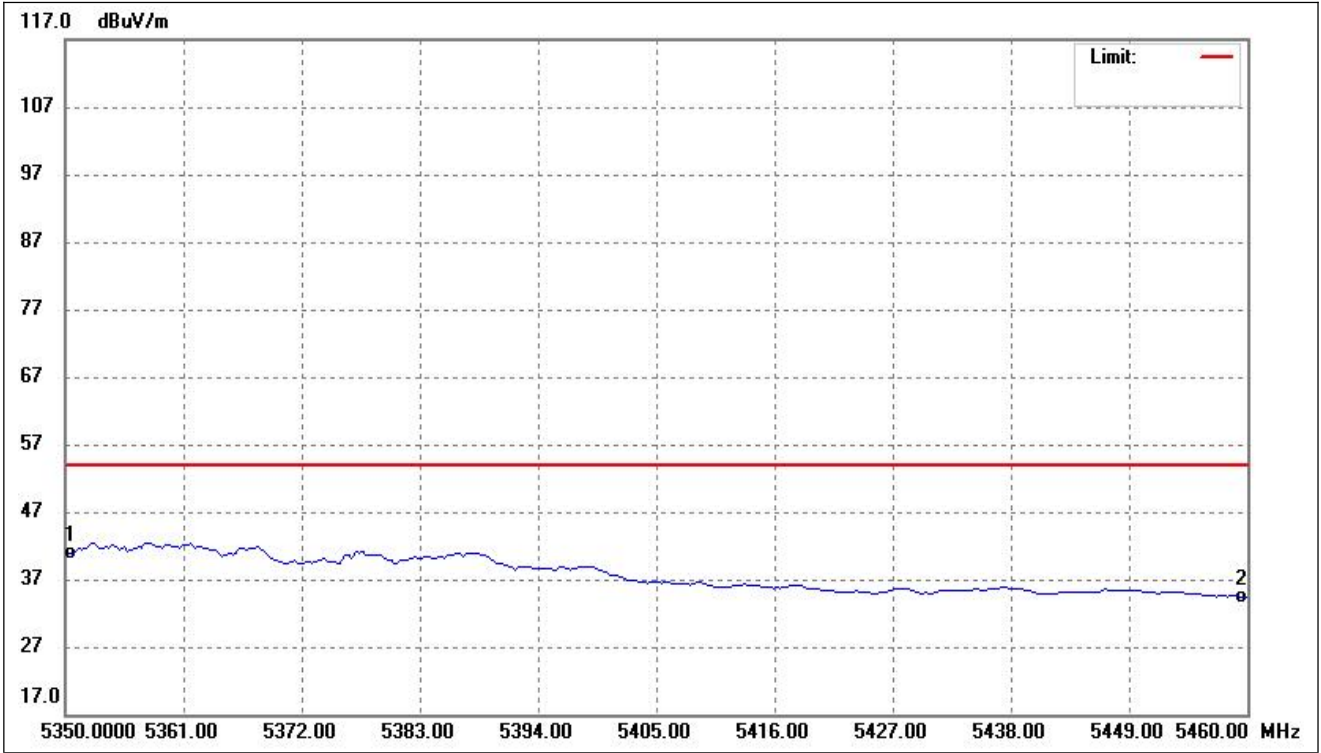
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5350.000	51.36	-9.62	41.74	54.00	-12.26	-	-	AVG
2	5460.000	42.91	-9.39	33.52	54.00	-20.48	-	-	AVG

802.11ac-HT80- Restricted Bandedge			
Test Channel	band 5.25-5.35GHz	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	5350.000	75.88	-9.62	66.26	74.00	-7.74	-	-	peak
2	5460.000	59.67	-9.39	50.28	74.00	-23.72	-	-	peak

802.11ac-HT80- Restricted Bandedge			
Test Channel	band 5.25-5.35GHz	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	5350.000	50.49	-9.62	40.87	54.00	-13.13	-	-	AVG
2	5460.000	43.79	-9.39	34.40	54.00	-19.60	-	-	AVG

802.11a- Restricted Bandedge			
Test Channel	band 5.47-5.72GHz	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	5350.000	55.15	-9.62	45.53	74.00	-28.47	-	-	peak
2	5460.000	66.34	-9.39	56.95	74.00	-17.05	-	-	peak

802.11a- Restricted Bandedge			
Test Channel	band 5.47-5.72GHz	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	5350.000	42.77	-9.62	33.15	54.00	-20.85	-	-	AVG
2	5460.000	46.64	-9.39	37.25	54.00	-16.75	-	-	AVG

802.11n-HT20- Restricted Bandedge			
Test Channel	band 5.47-5.72GHz	Polarity:	Horizontal(worst case)



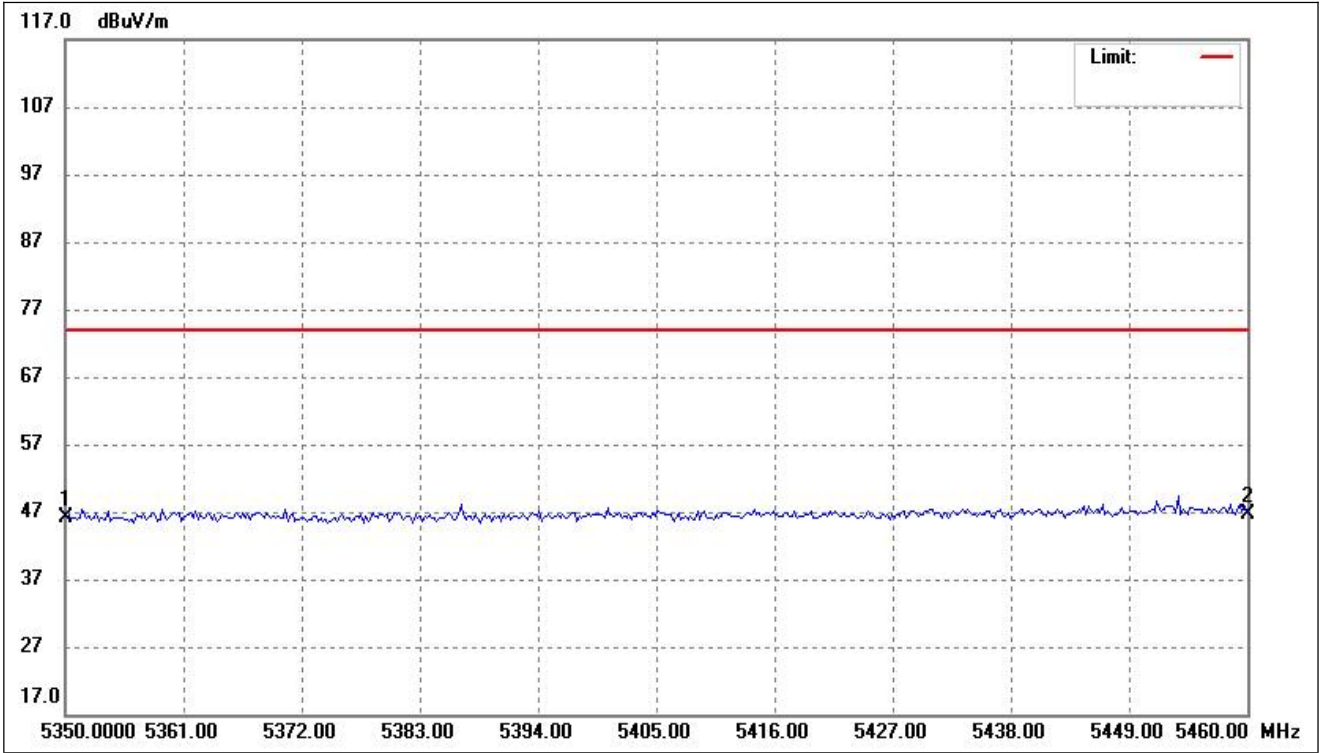
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5350.000	56.44	-9.62	46.82	74.00	-27.18	-	-	peak
2	5460.000	66.31	-9.39	56.92	74.00	-17.08	-	-	peak

802.11n-HT20- Restricted Bandedge			
Test Channel	band 5.47-5.72GHz	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	5350.000	42.82	-9.62	33.20	54.00	-20.80	-	-	AVG
2	5460.000	47.47	-9.39	38.08	54.00	-15.92	-	-	AVG

802.11ac-VHT20- Restricted Bandedge			
Test Channel	band 5.47-5.72GHz	Polarity:	Horizontal(worst case)



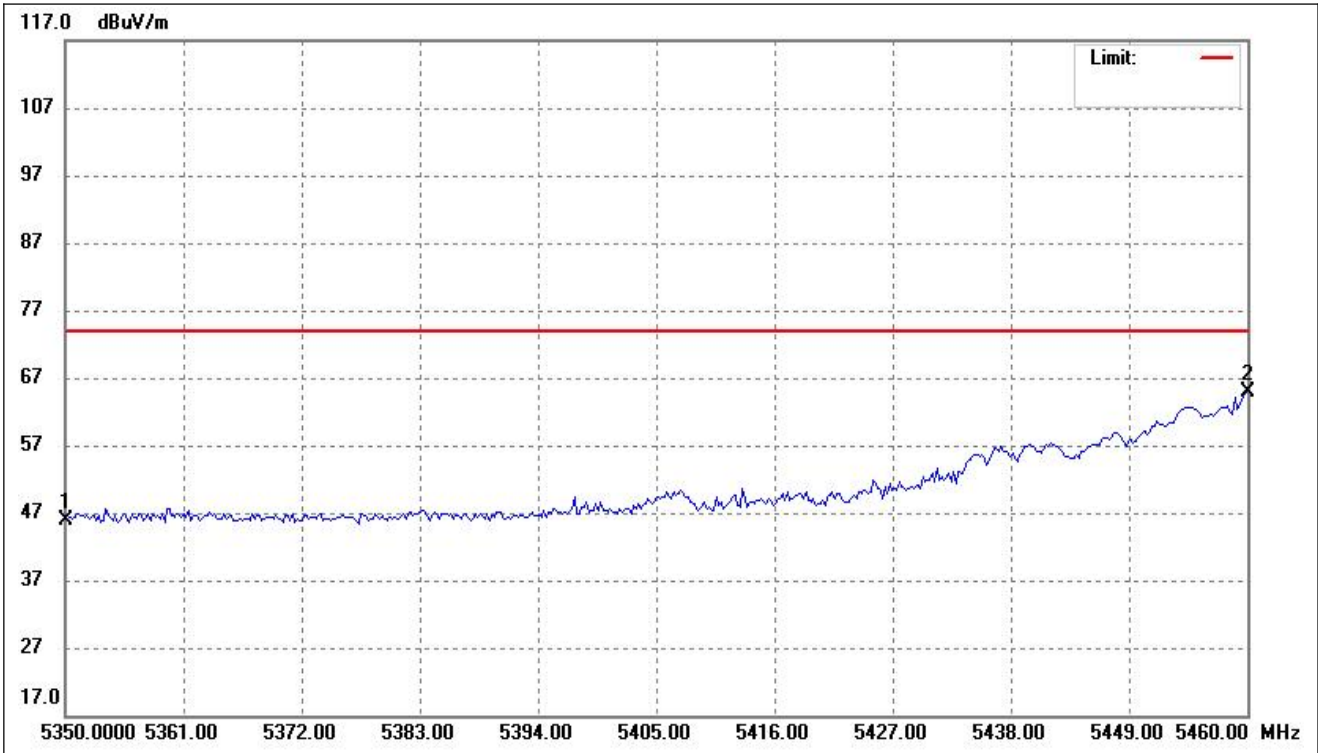
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5350.000	55.69	-9.62	46.07	74.00	-27.93	-	-	peak
2	5460.000	56.13	-9.39	46.74	74.00	-27.26	-	-	peak

802.11ac-VHT20- Restricted Bandedge			
Test Channel	band 5.47-5.72GHz	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	5350.000	42.75	-9.62	33.13	54.00	-20.87	-	-	AVG
2	5460.000	43.26	-9.39	33.87	54.00	-20.13	-	-	AVG

802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.47-5.72GHz	Polarity:	Horizontal(worst case)



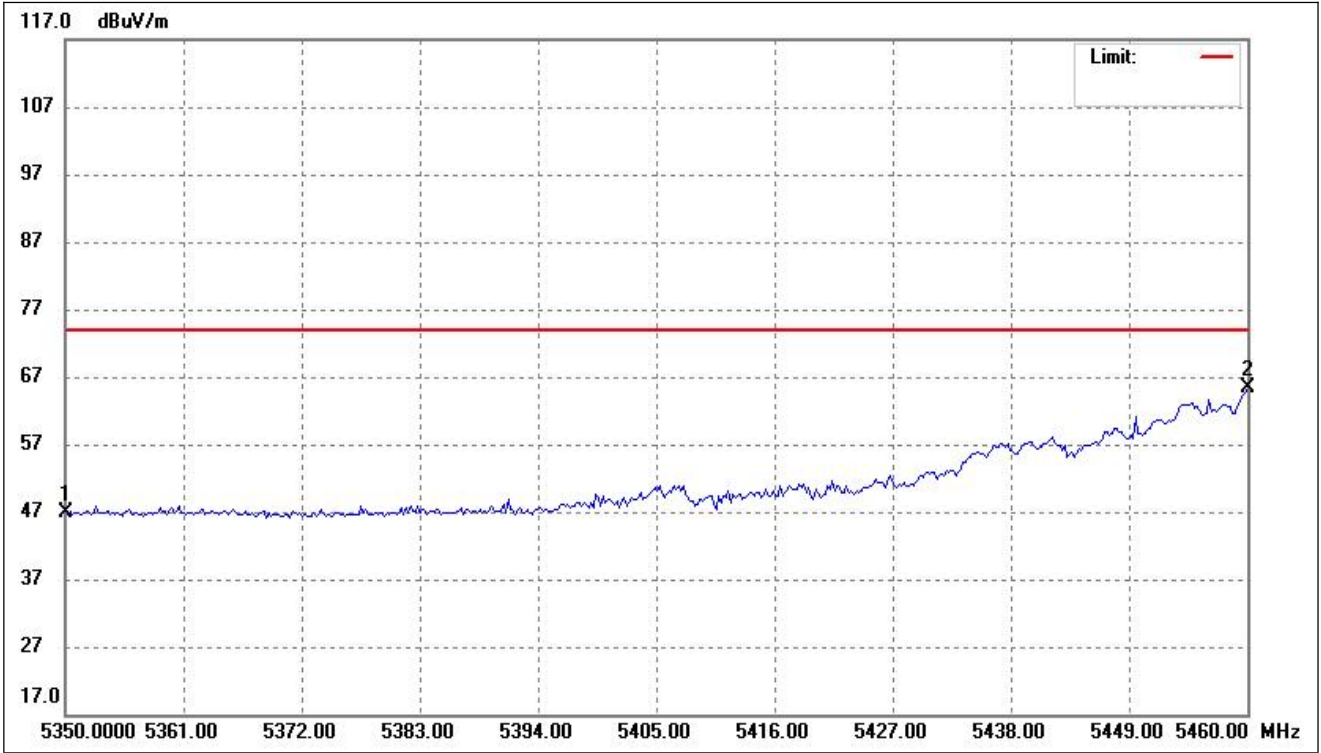
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5350.000	55.60	-9.62	45.98	74.00	-28.02	-	-	peak
2	5460.000	74.22	-9.39	64.83	74.00	-9.17	-	-	peak

802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.47-5.72GHz	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	5350.000	42.85	-9.62	33.23	54.00	-20.77	-	-	AVG
2	5460.000	56.31	-9.39	46.92	54.00	-7.08	-	-	AVG

802.11ac-VHT40- Restricted Bandedge			
Test Channel	band 5.47-5.72GHz	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	5350.000	56.55	-9.62	46.93	74.00	-27.07	-	-	peak
2	5460.000	74.74	-9.39	65.35	74.00	-8.65	-	-	peak

802.11ac-VHT40- Restricted Bandedge			
Test Channel	band 5.47-5.72GHz	Polarity:	Horizontal(worst case)



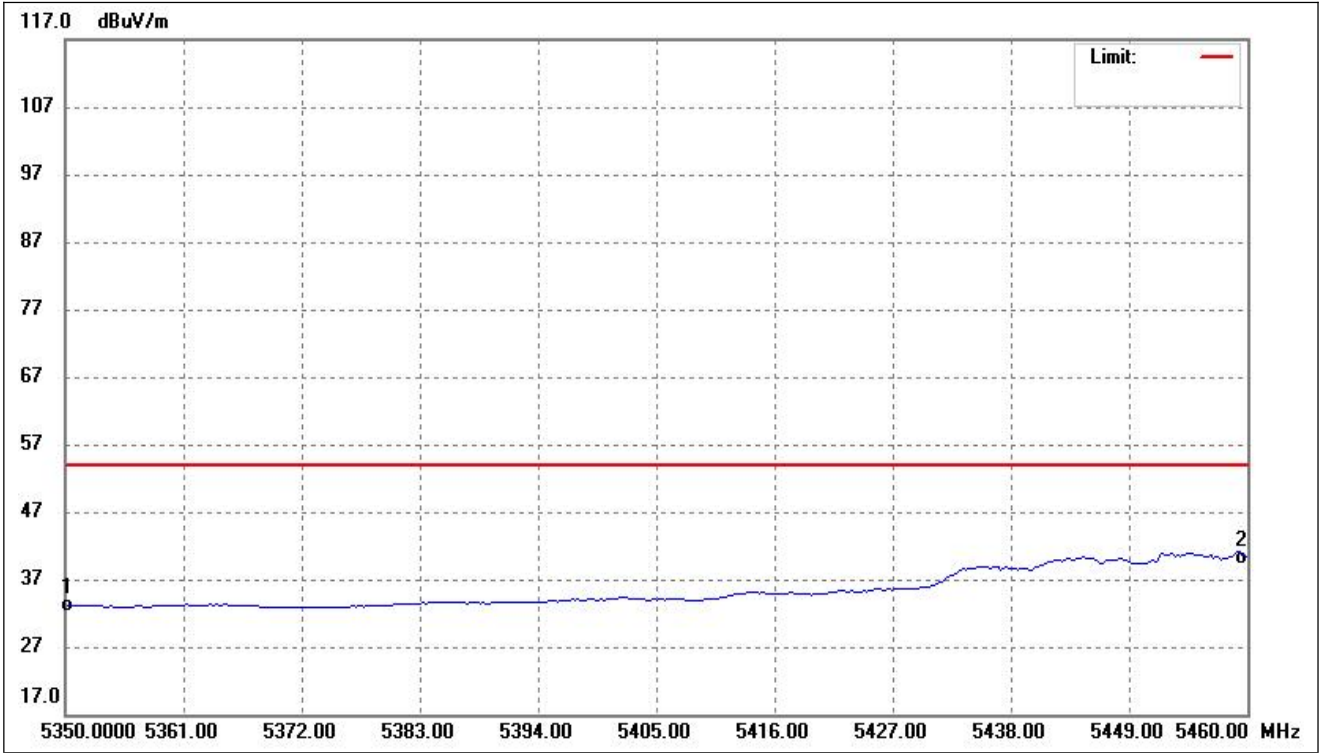
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5350.000	42.79	-9.62	33.17	54.00	-20.83	-	-	AVG
2	5460.000	56.13	-9.39	46.74	54.00	-7.26	-	-	AVG

802.11ac-HT80- Restricted Bandedge			
Test Channel	band 5.47-5.72GHz	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	5350.000	56.21	-9.62	46.59	74.00	-27.41	-	-	peak
2	5460.000	71.64	-9.39	62.25	74.00	-11.75	-	-	peak

802.11ac-HT80- Restricted Bandedge			
Test Channel	band 5.47-5.72GHz	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	5350.000	42.77	-9.62	33.15	54.00	-20.85	-	-	AVG
2	5460.000	49.54	-9.39	40.15	54.00	-13.85	-	-	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.

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11a)
- Harmonics And Spurious Emissions

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel (5180MHz)							
10360	51.41	-4.22	47.19	74.00	-26.81	H	PK
10360	49.13	-4.22	44.91	54.00	-9.09	H	AV
10360	51.55	-4.22	47.33	74.00	-26.67	V	PK
10360	46.34	-4.22	42.12	54.00	-11.88	V	AV
Middle Channel (5200MHz)							
10400	53.19	-4.22	48.97	74.00	-25.03	H	PK
10400	48.95	-4.22	44.73	54.00	-9.27	H	AV
10400	52.80	-4.22	48.58	74.00	-25.42	V	PK
10400	46.41	-4.22	42.19	54.00	-11.81	V	AV
High Channel (5240MHz)							
10480	52.40	-4.16	48.24	74.00	-25.76	H	PK
10480	49.75	-4.16	45.59	54.00	-8.41	H	AV
10480	52.97	-4.16	48.81	74.00	-25.19	V	PK
10480	46.65	-4.16	42.49	54.00	-11.51	V	AV

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel (5260MHz)							
10520	51.14	-4.14	47.00	74.00	-27.00	H	PK
10520	49.74	-4.14	45.60	54.00	-8.40	H	AV
10520	51.93	-4.14	47.79	74.00	-26.21	V	PK
10520	46.40	-4.14	42.26	54.00	-11.74	V	AV
Middle Channel (5280MHz)							
10560	52.88	-4.12	48.76	74.00	-25.24	H	PK
10560	49.91	-4.12	45.79	54.00	-8.21	H	AV
10560	52.43	-4.12	48.31	74.00	-25.69	V	PK
10560	45.92	-4.12	41.80	54.00	-12.20	V	AV
High Channel (5320MHz)							
10640	51.36	-4.10	47.26	74.00	-26.74	H	PK
10640	50.77	-4.10	46.67	54.00	-7.33	H	AV
10640	52.35	-4.10	48.25	74.00	-25.75	V	PK
10640	47.00	-4.10	42.90	54.00	-11.10	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5500MHz)							
11000	51.28	-3.96	47.32	74.00	-26.68	H	PK
11000	49.34	-3.96	45.38	54.00	-8.62	H	AV
11000	51.73	-3.96	47.77	74.00	-26.23	V	PK
11000	47.29	-3.96	43.33	54.00	-10.67	V	AV
Middle Channel (5580MHz)							
11160	51.55	-3.40	48.15	74.00	-25.85	H	PK
11160	48.57	-3.40	45.17	54.00	-8.83	H	AV
11160	51.61	-3.40	48.21	74.00	-25.79	V	PK
11160	46.18	-3.40	42.78	54.00	-11.22	V	AV
High Channel (5700MHz)							
11400	53.36	-2.56	50.80	74.00	-23.20	H	PK
11400	48.42	-2.56	45.86	54.00	-8.14	H	AV
11400	52.44	-2.56	49.88	74.00	-24.12	V	PK
11400	46.47	-2.56	43.91	54.00	-10.09	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5745MHz)							
11490	50.65	-2.24	48.41	74.00	-25.59	H	PK
11490	46.53	-2.24	44.29	54.00	-9.71	H	AV
11490	50.74	-2.24	48.50	74.00	-25.50	V	PK
11490	44.62	-2.24	42.38	54.00	-11.62	V	AV
Middle Channel (5785MHz)							
11570	50.11	-1.79	48.32	74.00	-25.68	H	PK
11570	46.17	-1.79	44.38	54.00	-9.62	H	AV
11570	49.52	-1.79	47.73	74.00	-26.27	V	PK
11570	44.73	-1.79	42.94	54.00	-11.06	V	AV
High Channel (5825MHz)							
11650	49.22	-1.52	47.70	74.00	-26.30	H	PK
11650	47.44	-1.52	45.92	54.00	-8.08	H	AV
11650	49.53	-1.52	48.01	74.00	-25.99	V	PK
11650	43.21	-1.52	41.69	54.00	-12.31	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-42.33	-27
Highest	Above 5350	-41.74	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-43.26	-27
Highest	Above 5350	-44.21	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-39.77	-27
Highest	Above 5725	-36.30	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5650	-46.62	-27
	5650 to 5700	-38.13	-27 to -17
	5700 to 5720	-30.27	-17 to 15.6
	5720 to 5725	-18.44	15.6 to 27
Highest	5850 to 5855	-14.42	27 to 15.6
	5855 to 5875	-27.41	15.6 to -17
	5875 to 5925	-37.29	-17 to -27
	Above 5925	-42.73	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11n HT20)
- 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	50.53	-4.22	46.31	74.00	-27.69	H	PK
10360	49.34	-4.22	45.12	54.00	-8.88	H	AV
10360	50.94	-4.22	46.72	74.00	-27.28	V	PK
10360	46.85	-4.22	42.63	54.00	-11.37	V	AV
Middle Channel (5200MHz)							
10400	53.71	-4.22	49.49	74.00	-24.51	H	PK
10400	49.19	-4.22	44.97	54.00	-9.03	H	AV
10400	53.55	-4.22	49.33	74.00	-24.67	V	PK
10400	47.17	-4.22	42.95	54.00	-11.05	V	AV
High Channel (5240MHz)							
10480	53.22	-4.16	49.06	74.00	-24.94	H	PK
10480	50.64	-4.16	46.48	54.00	-7.52	H	AV
10480	52.97	-4.16	48.81	74.00	-25.19	V	PK
10480	46.75	-4.16	42.59	54.00	-11.41	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5260MHz)							
10520	51.66	-4.14	47.52	74.00	-26.48	H	PK
10520	50.46	-4.14	46.32	54.00	-7.68	H	AV
10520	52.33	-4.14	48.19	74.00	-25.81	V	PK
10520	45.67	-4.14	41.53	54.00	-12.47	V	AV
Middle Channel (5280MHz)							
10560	53.52	-4.12	49.40	74.00	-24.60	H	PK
10560	49.18	-4.12	45.06	54.00	-8.94	H	AV
10560	52.14	-4.12	48.02	74.00	-25.98	V	PK
10560	46.42	-4.12	42.30	54.00	-11.70	V	AV
High Channel (5320MHz)							
10640	50.86	-4.10	46.76	74.00	-27.24	H	PK
10640	49.88	-4.10	45.78	54.00	-8.22	H	AV
10640	52.29	-4.10	48.19	74.00	-25.81	V	PK
10640	46.73	-4.10	42.63	54.00	-11.37	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5500MHz)							
11000	51.54	-3.96	47.58	74.00	-26.42	H	PK
11000	49.56	-3.96	45.60	54.00	-8.40	H	AV
11000	51.64	-3.96	47.68	74.00	-26.32	V	PK
11000	47.24	-3.96	43.28	54.00	-10.72	V	AV
Middle Channel (5580MHz)							
11160	50.97	-3.40	47.57	74.00	-26.43	H	PK
11160	49.43	-3.40	46.03	54.00	-7.97	H	AV
11160	52.82	-3.40	49.42	74.00	-24.58	V	PK
11160	46.95	-3.40	43.55	54.00	-10.45	V	AV
High Channel (5700MHz)							
11400	52.42	-2.56	49.86	74.00	-24.14	H	PK
11400	48.44	-2.56	45.88	54.00	-8.12	H	AV
11400	52.94	-2.56	50.38	74.00	-23.62	V	PK
11400	45.73	-2.56	43.17	54.00	-10.83	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5745MHz)							
11490	49.62	-2.24	47.38	74.00	-26.62	H	PK
11490	46.95	-2.24	44.71	54.00	-9.29	H	AV
11490	51.54	-2.24	49.30	74.00	-24.70	V	PK
11490	45.26	-2.24	43.02	54.00	-10.98	V	AV
Middle Channel (5785MHz)							
11570	50.13	-1.79	48.34	74.00	-25.66	H	PK
11570	44.36	-1.79	42.57	54.00	-11.43	H	AV
11570	48.70	-1.79	46.91	74.00	-27.09	V	PK
11570	45.06	-1.79	43.27	54.00	-10.73	V	AV
High Channel (5825MHz)							
11650	50.13	-1.52	48.61	74.00	-25.39	H	PK
11650	46.65	-1.52	45.13	54.00	-8.87	H	AV
11650	48.39	-1.52	46.87	74.00	-27.13	V	PK
11650	42.41	-1.52	40.89	54.00	-13.11	V	AV

➤ Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-39.36	-27
Highest	Above 5350	-41.60	-27

Note: the data just list the worst cases

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-38.33	-27
Highest	Above 5350	-39.82	-27

Note: the data just list the worst cases

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-34.54	-27
Highest	Above 5725	-36.43	-27

Note: the data just list the worst cases

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5650	-43.63	-27
	5650 to 5700	-32.41	-27 to -17
	5700 to 5720	-28.85	-17 to 15.6
	5720 to 5725	-18.64	15.6 to 27
Highest	5850 to 5855	-16.14	27 to 15.6
	5855 to 5875	-27.80	15.6 to -17
	5875 to 5925	-35.33	-17 to -27
	Above 5925	-39.61	-27

Note: the data just list the worst cases

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11ac VHT20)
- 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	51.67	-4.22	47.45	74.00	-26.55	H	PK
10360	49.92	-4.22	45.70	54.00	-8.30	H	AV
10360	52.51	-4.22	48.29	74.00	-25.71	V	PK
10360	45.90	-4.22	41.68	54.00	-12.32	V	AV
Middle Channel (5200MHz)							
10400	53.27	-4.22	49.05	74.00	-24.95	H	PK
10400	49.00	-4.22	44.78	54.00	-9.22	H	AV
10400	51.22	-4.22	47.00	74.00	-27.00	V	PK
10400	46.74	-4.22	42.52	54.00	-11.48	V	AV
High Channel (5240MHz)							
10480	53.11	-4.16	48.95	74.00	-25.05	H	PK
10480	49.74	-4.16	45.58	54.00	-8.42	H	AV
10480	51.95	-4.16	47.79	74.00	-26.21	V	PK
10480	46.57	-4.16	42.41	54.00	-11.59	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5260MHz)							
10520	51.25	-4.14	47.11	74.00	-26.89	H	PK
10520	49.41	-4.14	45.27	54.00	-8.73	H	AV
10520	51.24	-4.14	47.10	74.00	-26.90	V	PK
10520	45.53	-4.14	41.39	54.00	-12.61	V	AV
Middle Channel (5280MHz)							
10560	53.17	-4.12	49.05	74.00	-24.95	H	PK
10560	49.65	-4.12	45.53	54.00	-8.47	H	AV
10560	51.53	-4.12	47.41	74.00	-26.59	V	PK
10560	46.33	-4.12	42.21	54.00	-11.79	V	AV
High Channel (5320MHz)							
10640	50.78	-4.10	46.68	74.00	-27.32	H	PK
10640	49.92	-4.10	45.82	54.00	-8.18	H	AV
10640	52.78	-4.10	48.68	74.00	-25.32	V	PK
10640	46.13	-4.10	42.03	54.00	-11.97	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5500MHz)							
11000	51.42	-3.96	47.46	74.00	-26.54	H	PK
11000	49.57	-3.96	45.61	54.00	-8.39	H	AV
11000	51.35	-3.96	47.39	74.00	-26.61	V	PK
11000	47.45	-3.96	43.49	54.00	-10.51	V	AV
Middle Channel (5580MHz)							
11160	52.08	-3.40	48.68	74.00	-25.32	H	PK
11160	48.75	-3.40	45.35	54.00	-8.65	H	AV
11160	51.46	-3.40	48.06	74.00	-25.94	V	PK
11160	46.59	-3.40	43.19	54.00	-10.81	V	AV
High Channel (5700MHz)							
11400	52.52	-2.56	49.96	74.00	-24.04	H	PK
11400	48.41	-2.56	45.85	54.00	-8.15	H	AV
11400	53.05	-2.56	50.49	74.00	-23.51	V	PK
11400	45.30	-2.56	42.74	54.00	-11.26	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5745MHz)							
11490	51.15	-2.24	48.91	74.00	-25.09	H	PK
11490	47.39	-2.24	45.15	54.00	-8.85	H	AV
11490	50.16	-2.24	47.92	74.00	-26.08	V	PK
11490	45.60	-2.24	43.36	54.00	-10.64	V	AV
Middle Channel (5785MHz)							
11570	49.66	-1.79	47.87	74.00	-26.13	H	PK
11570	46.55	-1.79	44.76	54.00	-9.24	H	AV
11570	50.19	-1.79	48.40	74.00	-25.60	V	PK
11570	43.87	-1.79	42.08	54.00	-11.92	V	AV
High Channel (5825MHz)							
11650	49.42	-1.52	47.90	74.00	-26.10	H	PK
11650	47.04	-1.52	45.52	54.00	-8.48	H	AV
11650	49.33	-1.52	47.81	74.00	-26.19	V	PK
11650	44.08	-1.52	42.56	54.00	-11.44	V	AV

➤ Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-35.31	-27
Highest	Above 5350	-37.40	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-38.63	-27
Highest	Above 5350	-39.74	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-34.40	-27
Highest	Above 5725	-36.21	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5650	-42.64	-27
	5650 to 5700	-33.81	-27 to -17
	5700 to 5720	-25.81	-17 to 15.6
	5720 to 5725	-15.47	15.6 to 27
Highest	5850 to 5855	-12.65	27 to 15.6
	5855 to 5875	-24.39	15.6 to -17
	5875 to 5925	-32.18	-17 to -27
	Above 5925	-36.21	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11n HT40)
- 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 (5190MHz)							
10380	49.25	-4.21	45.04	74.00	-28.96	H	PK
10380	47.56	-4.21	43.35	54.00	-10.65	H	AV
10380	50.39	-4.21	46.18	74.00	-27.82	V	PK
10380	44.99	-4.21	40.78	54.00	-13.22	V	AV
High Channel (5230MHz)							
10460	50.49	-4.17	46.32	74.00	-27.68	H	PK
10460	47.44	-4.17	43.27	54.00	-10.73	H	AV
10460	50.41	-4.17	46.24	74.00	-27.76	V	PK
10460	44.34	-4.17	40.17	54.00	-13.83	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5270MHz)							
10540	50.26	-4.14	46.12	74.00	-27.88	H	PK
10540	45.66	-4.14	41.52	54.00	-12.48	H	AV
10540	50.29	-4.14	46.15	74.00	-27.85	V	PK
10540	42.62	-4.14	38.48	54.00	-15.52	V	AV
High Channel (5310MHz)							
10620	50.35	-4.10	46.25	74.00	-27.75	H	PK
10620	47.15	-4.10	43.05	54.00	-10.95	H	AV
10620	50.08	-4.10	45.98	74.00	-28.02	V	PK
10620	42.82	-4.10	38.72	54.00	-15.28	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5510MHz)							
11020	49.53	-3.89	45.64	74.00	-28.36	H	PK
11020	47.00	-3.89	43.11	54.00	-10.89	H	AV
11020	51.89	-3.89	48.00	74.00	-26.00	V	PK
11020	45.38	-3.89	41.49	54.00	-12.51	V	AV
Middle Channel (5550MHz)							
11100	48.69	-3.61	45.08	74.00	-28.92	H	PK
11100	47.10	-3.61	43.49	54.00	-10.51	H	AV
11100	50.20	-3.61	46.59	74.00	-27.41	V	PK
11100	44.17	-3.61	40.56	54.00	-13.44	V	AV
High Channel (5670MHz)							
11340	50.37	-2.77	47.60	74.00	-26.40	H	PK
11340	45.80	-2.77	43.03	54.00	-10.97	H	AV
11340	50.07	-2.77	47.30	74.00	-26.70	V	PK
11340	45.10	-2.77	42.33	54.00	-11.67	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5755MHz)							
11510	49.71	-2.19	47.52	74.00	-26.48	H	PK
11510	46.81	-2.19	44.62	54.00	-9.38	H	AV
11510	49.29	-2.19	47.10	74.00	-26.90	V	PK
11510	43.42	-2.19	41.23	54.00	-12.77	V	AV
High Channel (5795MHz)							
11590	49.11	-2.03	47.08	74.00	-26.92	H	PK
11590	47.25	-2.03	45.22	54.00	-8.78	H	AV
11590	50.13	-2.03	48.10	74.00	-25.90	V	PK
11590	44.17	-2.03	42.14	54.00	-11.86	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-37.12	-27
Highest	Above 5350	-33.40	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-33.77	-27
Highest	Above 5350	-33.73	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-31.49	-27
Highest	Above 5725	-34.72	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5650	-42.88	-27
	5650 to 5700	-33.24	-27 to -17
	5700 to 5720	-25.55	-17 to 15.6
	5720 to 5725	-15.56	15.6 to 27
Highest	5850 to 5855	-12.04	27 to 15.6
	5855 to 5875	-24.74	15.6 to -17
	5875 to 5925	-30.77	-17 to -27
	Above 5925	-37.82	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11ac VHT40)
- 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 (5190MHz)							
10380	49.94	-4.21	45.73	74.00	-28.27	H	PK
10380	46.91	-4.21	42.70	54.00	-11.30	H	AV
10380	50.95	-4.21	46.74	74.00	-27.26	V	PK
10380	44.57	-4.21	40.36	54.00	-13.64	V	AV
High Channel (5230MHz)							
10460	50.97	-4.17	46.80	74.00	-27.20	H	PK
10460	48.03	-4.17	43.86	54.00	-10.14	H	AV
10460	51.88	-4.17	47.71	74.00	-26.29	V	PK
10460	45.18	-4.17	41.01	54.00	-12.99	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5270MHz)							
10540	49.37	-4.14	45.23	74.00	-28.77	H	PK
10540	45.99	-4.14	41.85	54.00	-12.15	H	AV
10540	50.08	-4.14	45.94	74.00	-28.06	V	PK
10540	43.73	-4.14	39.59	54.00	-14.41	V	AV
High Channel (5310MHz)							
10620	50.67	-4.10	46.57	74.00	-27.43	H	PK
10620	48.46	-4.10	44.36	54.00	-9.64	H	AV
10620	49.56	-4.10	45.46	74.00	-28.54	V	PK
10620	43.04	-4.10	38.94	54.00	-15.06	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5510MHz)							
11020	50.88	-3.89	46.99	74.00	-27.01	H	PK
11020	47.93	-3.89	44.04	54.00	-9.96	H	AV
11020	50.47	-3.89	46.58	74.00	-27.42	V	PK
11020	45.52	-3.89	41.63	54.00	-12.37	V	AV
Middle Channel (5550MHz)							
11100	48.89	-3.61	45.28	74.00	-28.72	H	PK
11100	47.12	-3.61	43.51	54.00	-10.49	H	AV
11100	51.37	-3.61	47.76	74.00	-26.24	V	PK
11100	44.48	-3.61	40.87	54.00	-13.13	V	AV
High Channel (5670MHz)							
11340	49.13	-2.77	46.36	74.00	-27.64	H	PK
11340	46.30	-2.77	43.53	54.00	-10.47	H	AV
11340	48.72	-2.77	45.95	74.00	-28.05	V	PK
11340	44.33	-2.77	41.56	54.00	-12.44	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5755MHz)							
11510	50.68	-2.19	48.49	74.00	-25.51	H	PK
11510	47.09	-2.19	44.90	54.00	-9.10	H	AV
11510	51.05	-2.19	48.86	74.00	-25.14	V	PK
11510	43.99	-2.19	41.80	54.00	-12.20	V	AV
High Channel (5795MHz)							
11590	49.89	-2.03	47.86	74.00	-26.14	H	PK
11590	46.48	-2.03	44.45	54.00	-9.55	H	AV
11590	51.44	-2.03	49.41	74.00	-24.59	V	PK
11590	44.09	-2.03	42.06	54.00	-11.94	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-36.63	-27
Highest	Above 5350	-34.66	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-34.50	-27
Highest	Above 5350	-33.27	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-31.55	-27
Highest	Above 5725	-33.79	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5650	-44.38	-27
	5650 to 5700	-34.36	-27 to -17
	5700 to 5720	-24.06	-17 to 15.6
	5720 to 5725	-16.65	15.6 to 27
Highest	5850 to 5855	-11.22	27 to 15.6
	5855 to 5875	-23.57	15.6 to -17
	5875 to 5925	-31.01	-17 to -27
	Above 5925	-36.74	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11ac VHT80)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
5210MHz							
10420	49.22	-4.19	45.03	74.00	-28.97	H	PK
10420	45.65	-4.19	41.46	54.00	-12.54	H	AV
10420	47.39	-4.19	43.20	74.00	-30.80	H	PK
10420	43.92	-4.19	39.73	54.00	-14.27	H	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
5290MHz							
10580	48.95	-4.12	44.83	74.00	-29.17	H	PK
10580	45.39	-4.12	41.27	54.00	-12.73	H	AV
10580	47.97	-4.12	43.85	74.00	-30.15	V	PK
10580	42.87	-4.12	38.75	54.00	-15.25	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5530MHz)							
11060	49.96	-3.75	46.21	74.00	-27.79	H	PK
11060	46.17	-3.75	42.42	54.00	-11.58	H	AV
11060	47.82	-3.75	44.07	74.00	-29.93	V	PK
11060	43.74	-3.75	39.99	54.00	-14.01	V	AV
High Channel (5610MHz)							
11220	49.53	-3.19	46.34	74.00	-27.66	H	PK
11220	45.69	-3.19	42.50	54.00	-11.50	H	AV
11220	46.56	-3.19	43.37	74.00	-30.63	V	PK
11220	43.58	-3.19	40.39	54.00	-13.61	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
5775MHz							
11550	48.25	-2.11	46.14	74.00	-27.86	H	PK
11550	46.16	-2.11	44.05	54.00	-9.95	H	AV
11550	46.18	-2.11	44.07	74.00	-29.93	V	PK
11550	43.17	-2.11	41.06	54.00	-12.94	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-33.97	-27
Highest	Above 5350	-34.16	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-35.38	-27
Highest	Above 5350	-32.90	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-37.65	-27
Highest	Above 5725	-34.41	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5650	-41.65	-27
	5650 to 5700	-31.74	-27 to -17
	5700 to 5720	-25.56	-17 to 15.6
	5720 to 5725	-16.93	15.6 to 27
Highest	5850 to 5855	-11.85	27 to 15.6
	5855 to 5875	-24.59	15.6 to -17
	5875 to 5925	-31.65	-17 to -27
	Above 5925	-37.42	-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.

Band edge measurements Please refer to Appendix E

Conducted Spurious Emission Please refer to Appendix F

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 G

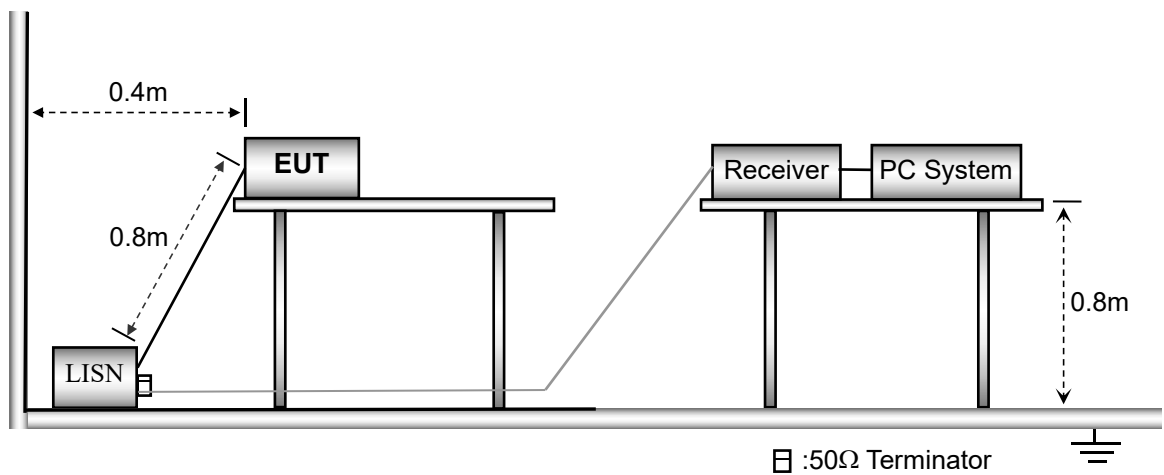
10. Conducted Emissions

10.1 Test Procedure

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

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

10.2 Basic Test Setup Block Diagram



10.3 Test Receiver Setup

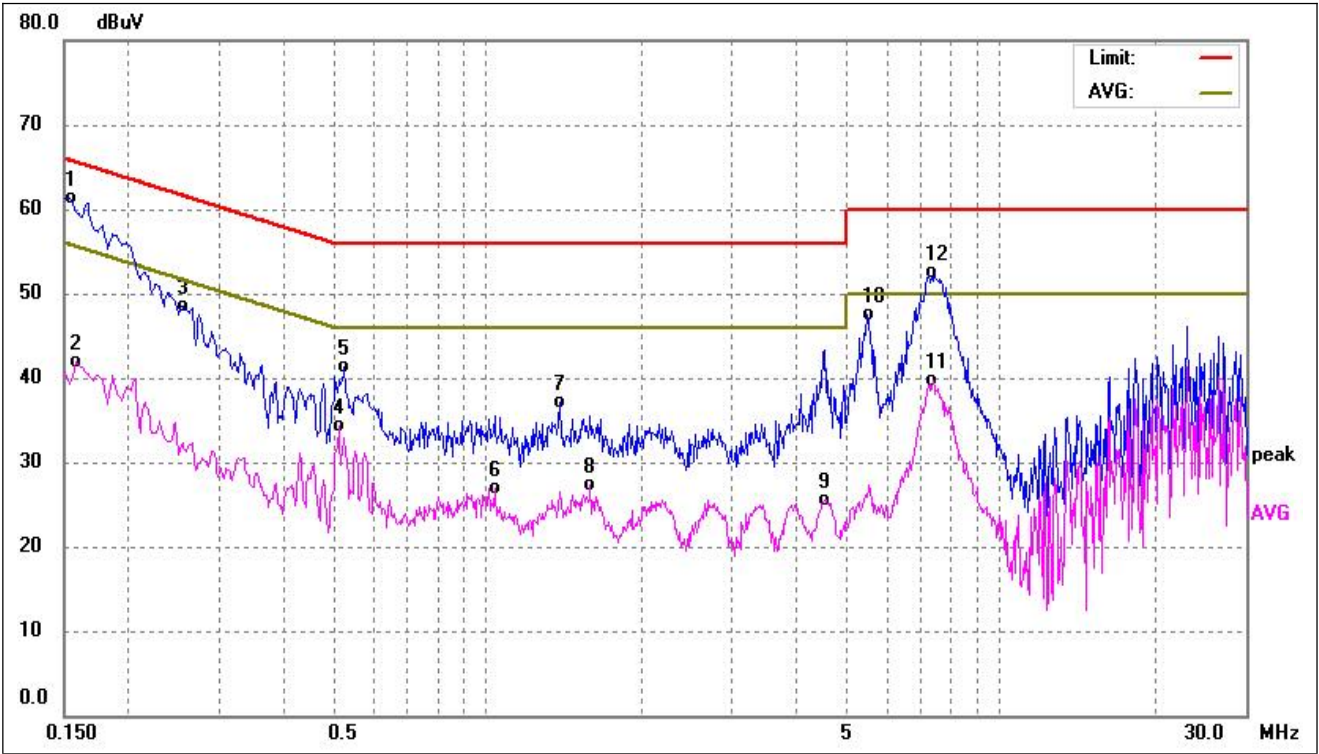
During the conducted emission test, the test receiver was set with the following configurations:

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

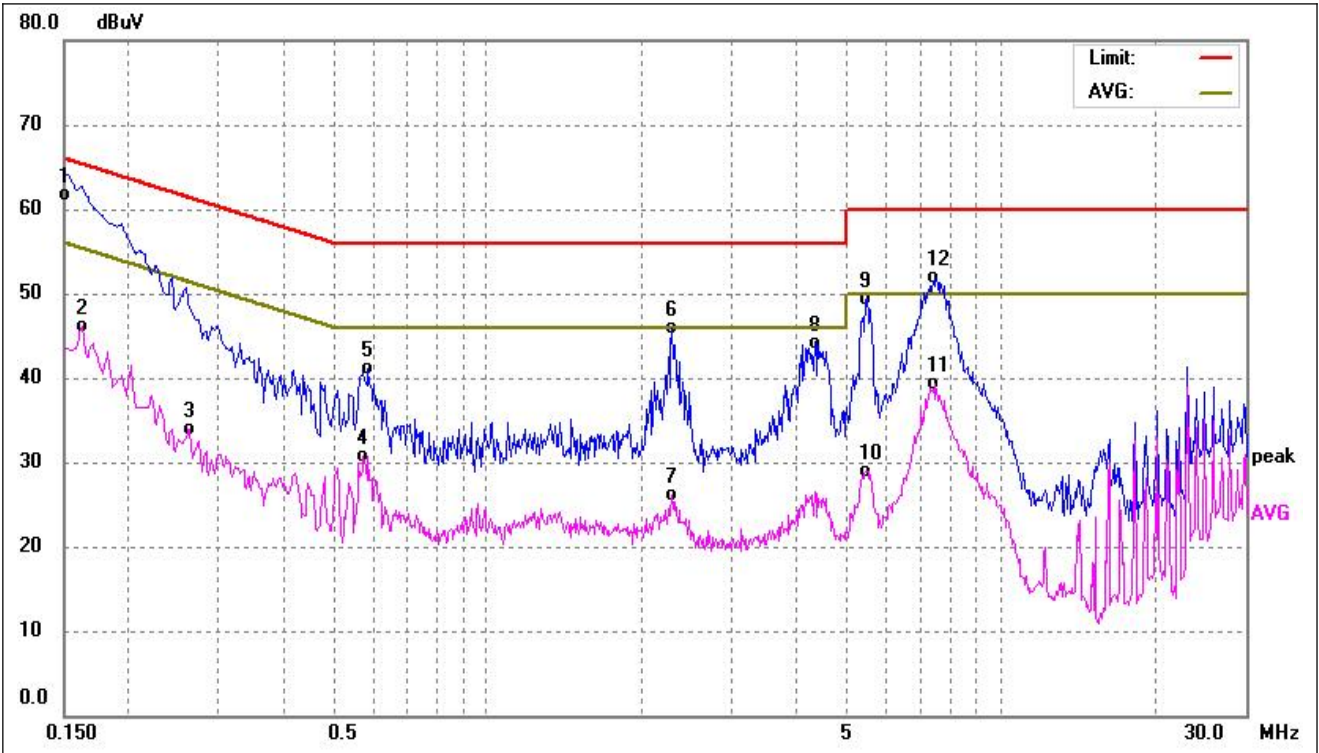
Band 1

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1539	51.84	9.55	61.39	65.78	-4.39	QP
2	0.1580	32.28	9.56	41.84	55.56	-13.72	AVG
3	0.2540	38.90	9.68	48.58	61.62	-13.04	QP
4	0.5140	24.79	9.46	34.25	46.00	-11.75	AVG
5	0.5260	31.76	9.46	41.22	56.00	-14.78	QP
6	1.0339	17.48	9.48	26.96	46.00	-19.04	AVG
7	1.3858	27.44	9.65	37.09	56.00	-18.91	QP
8	1.5859	17.52	9.75	27.27	46.00	-18.73	AVG
9	4.5419	15.99	9.59	25.58	46.00	-20.42	AVG
10	5.4778	37.97	9.62	47.59	60.00	-12.41	QP
11	7.3818	29.91	9.70	39.61	50.00	-10.39	AVG
12	7.4180	42.89	9.70	52.59	60.00	-7.41	QP

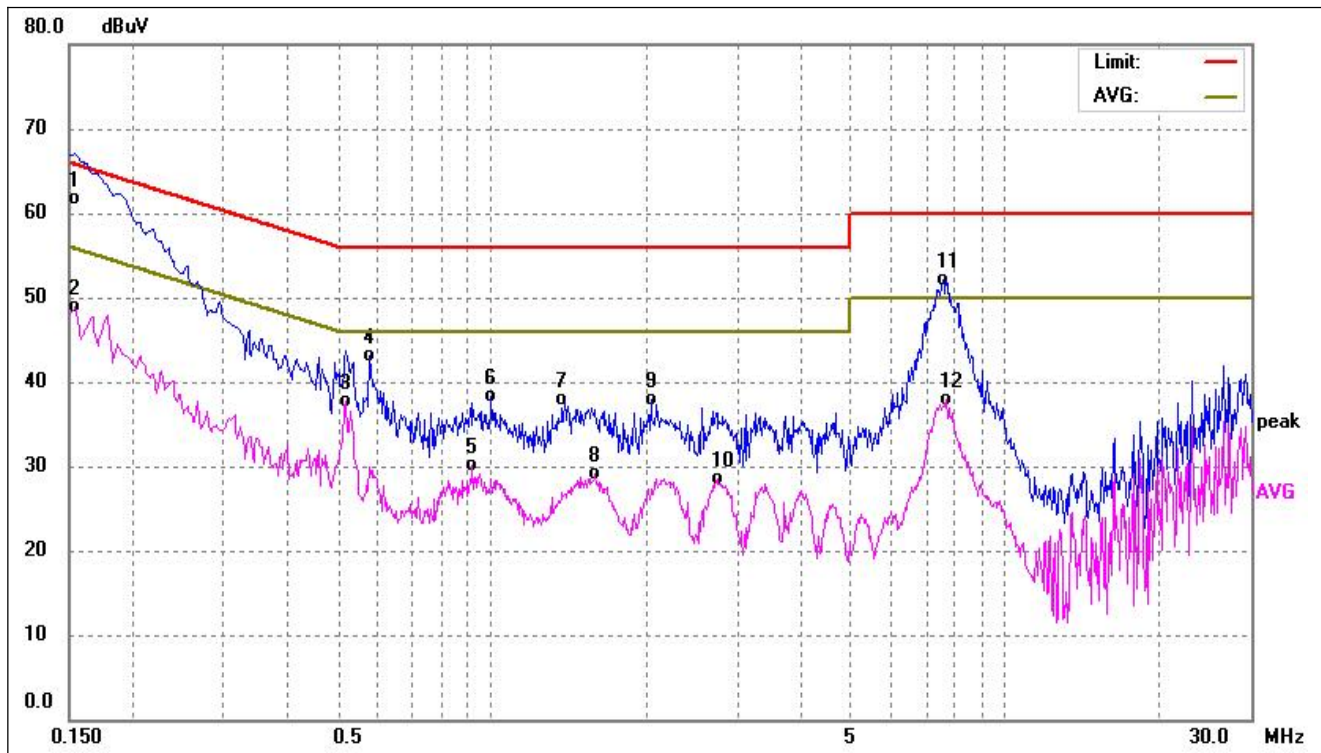
Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	52.22	9.53	61.75	65.99	-4.24	QP
2	0.1620	36.55	9.58	46.13	55.36	-9.23	AVG
3	0.2620	24.30	9.67	33.97	51.36	-17.39	AVG
4	0.5738	21.28	9.49	30.77	46.00	-15.23	AVG
5	0.5859	31.71	9.49	41.20	56.00	-14.80	QP
6	2.2940	36.01	9.90	45.91	56.00	-10.09	QP
7	2.2940	16.19	9.90	26.09	46.00	-19.91	AVG
8	4.3380	34.63	9.57	44.20	56.00	-11.80	QP
9	5.4500	39.68	9.62	49.30	60.00	-10.70	QP
10	5.4500	19.34	9.62	28.96	50.00	-21.04	AVG
11	7.4299	29.56	9.70	39.26	50.00	-10.74	AVG
12	7.4900	42.24	9.71	51.95	60.00	-8.05	QP

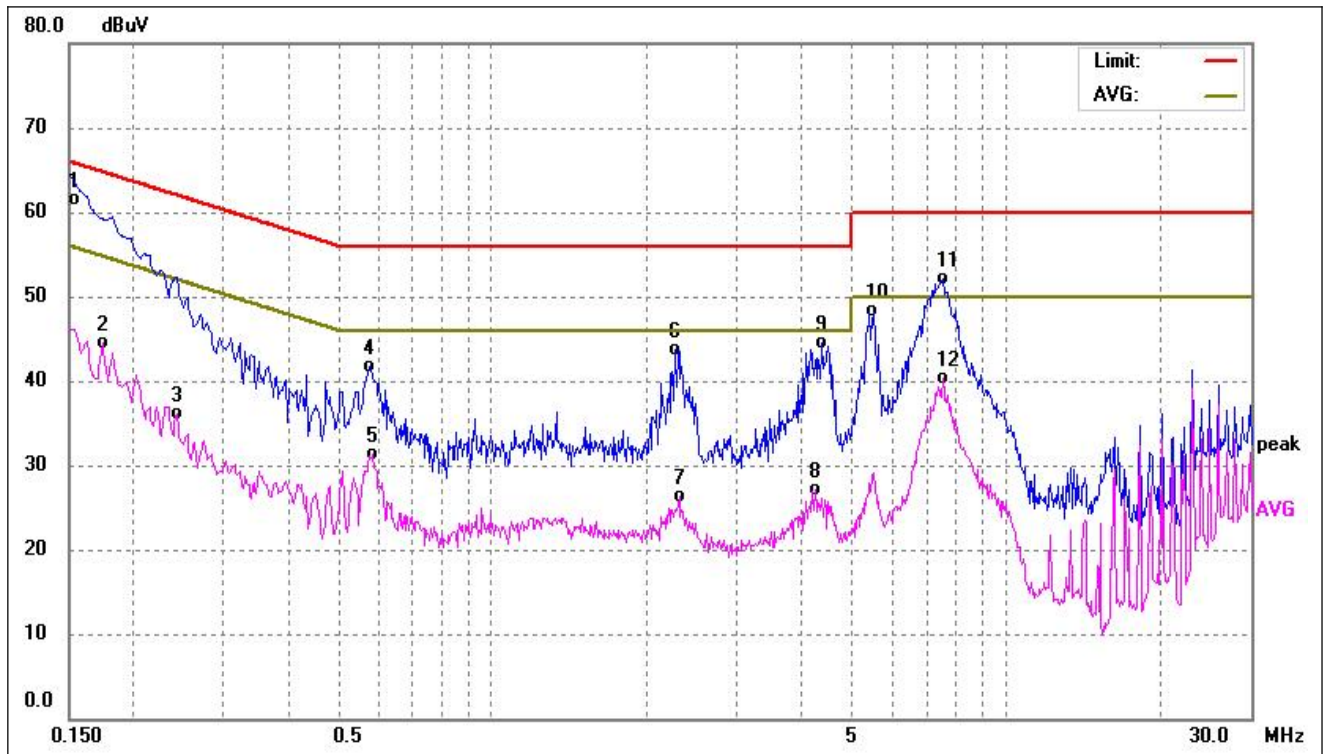
Band 2

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1539	52.15	9.55	61.70	65.78	-4.08	QP
2	0.1539	39.43	9.55	48.98	55.78	-6.80	AVG
3	0.5180	28.22	9.46	37.68	46.00	-8.32	AVG
4	0.5777	33.66	9.49	43.15	56.00	-12.85	QP
5	0.9140	20.54	9.48	30.02	46.00	-15.98	AVG
6	0.9979	28.85	9.46	38.31	56.00	-17.69	QP
7	1.3817	28.22	9.65	37.87	56.00	-18.13	QP
8	1.5859	19.39	9.75	29.14	46.00	-16.86	AVG
9	2.0419	28.03	9.95	37.98	56.00	-18.02	QP
10	2.7500	18.75	9.80	28.55	46.00	-17.45	AVG
11	7.5300	42.41	9.71	52.12	60.00	-7.88	QP
12	7.6859	28.18	9.71	37.89	50.00	-12.11	AVG

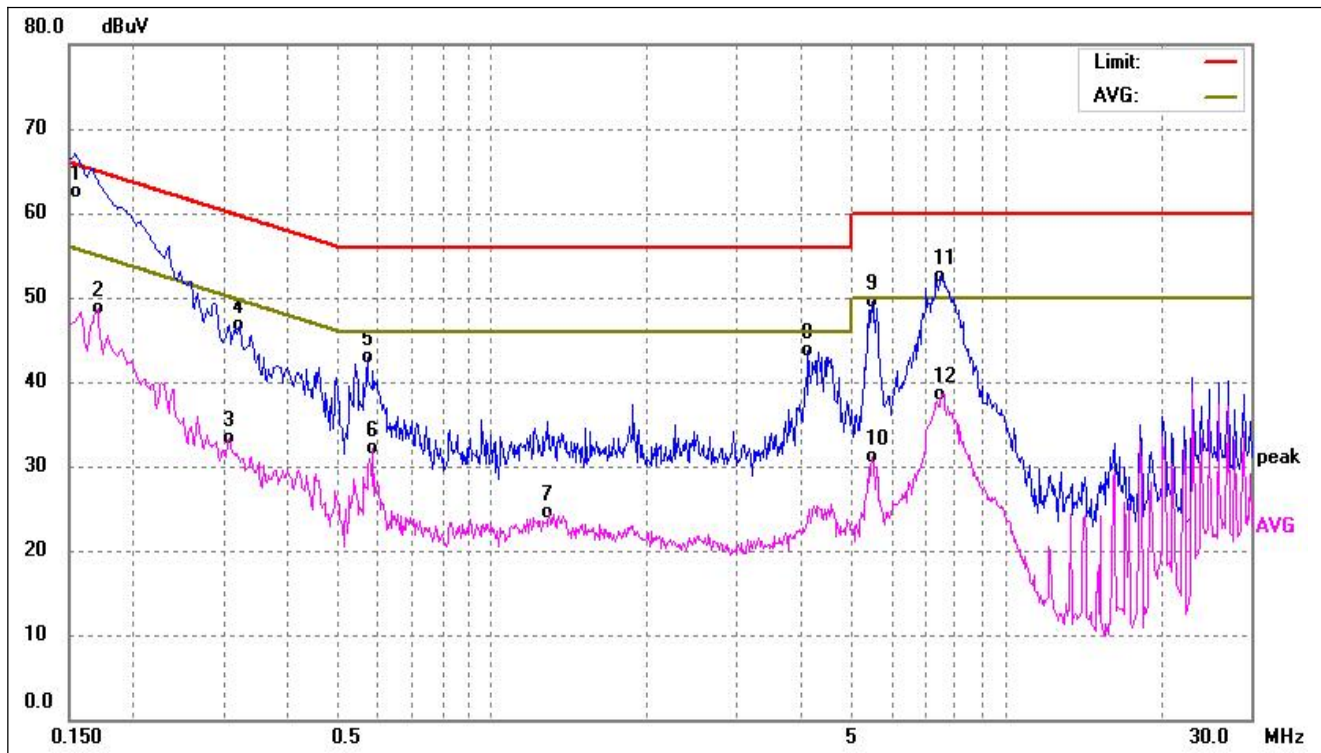
Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	52.05	9.53	61.58	65.99	-4.41	QP
2	0.1739	34.86	9.63	44.49	54.77	-10.28	AVG
3	0.2419	26.37	9.69	36.06	52.03	-15.97	AVG
4	0.5779	32.20	9.49	41.69	56.00	-14.31	QP
5	0.5859	21.76	9.49	31.25	46.00	-14.75	AVG
6	2.2700	33.84	9.91	43.75	56.00	-12.25	QP
7	2.3140	16.48	9.90	26.38	46.00	-19.62	AVG
8	4.2580	17.57	9.57	27.14	46.00	-18.86	AVG
9	4.4020	35.01	9.57	44.58	56.00	-11.42	QP
10	5.4459	38.59	9.62	48.21	60.00	-11.79	QP
11	7.5419	42.42	9.71	52.13	60.00	-7.87	QP
12	7.5419	30.53	9.71	40.24	50.00	-9.76	AVG

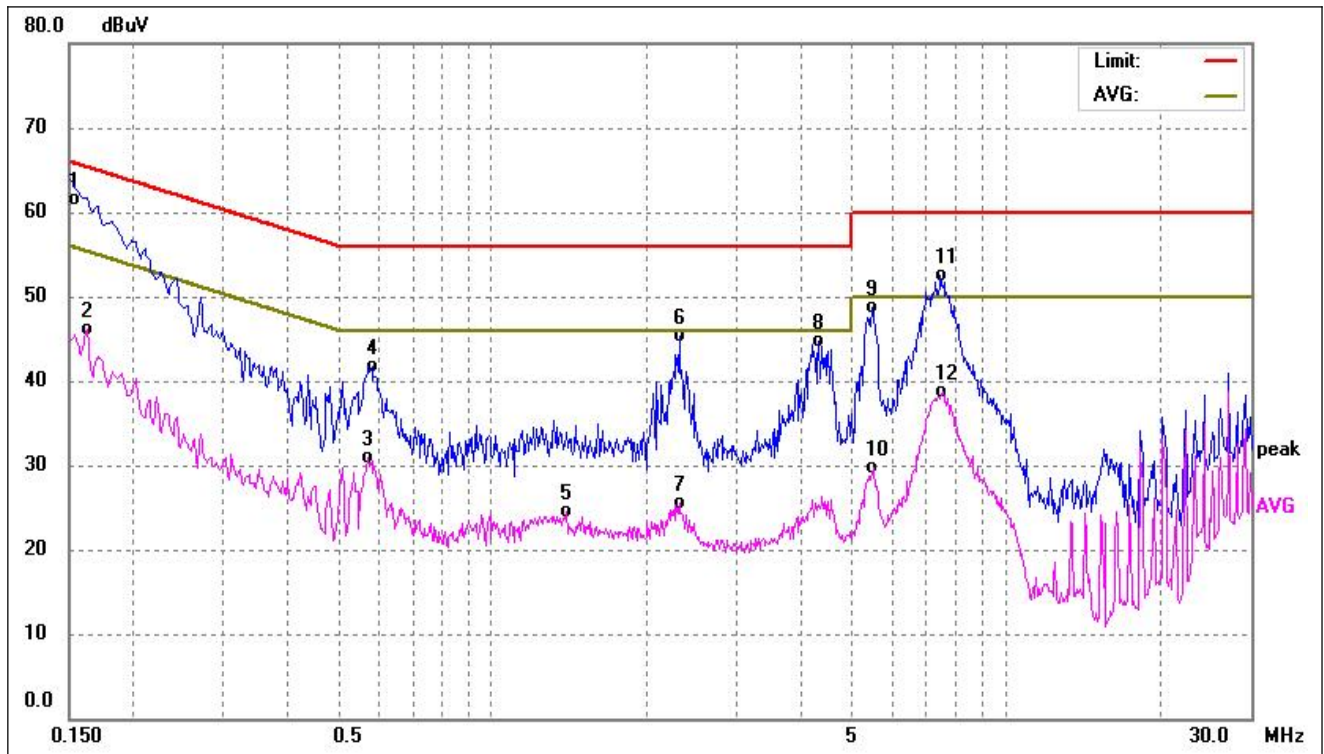
Band 3

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1539	52.99	9.55	62.54	65.78	-3.24	QP
2	0.1700	39.05	9.61	48.66	54.96	-6.30	AVG
3	0.3059	23.76	9.62	33.38	50.08	-16.70	AVG
4	0.3220	37.15	9.61	46.76	59.65	-12.89	QP
5	0.5698	33.35	9.48	42.83	56.00	-13.17	QP
6	0.5858	22.57	9.49	32.06	46.00	-13.94	AVG
7	1.2940	14.83	9.61	24.44	46.00	-21.56	AVG
8	4.1219	34.06	9.56	43.62	56.00	-12.38	QP
9	5.4858	39.89	9.62	49.51	60.00	-10.49	QP
10	5.4858	21.50	9.62	31.12	50.00	-18.88	AVG
11	7.4660	42.86	9.71	52.57	60.00	-7.43	QP
12	7.5019	28.84	9.71	38.55	50.00	-11.45	AVG

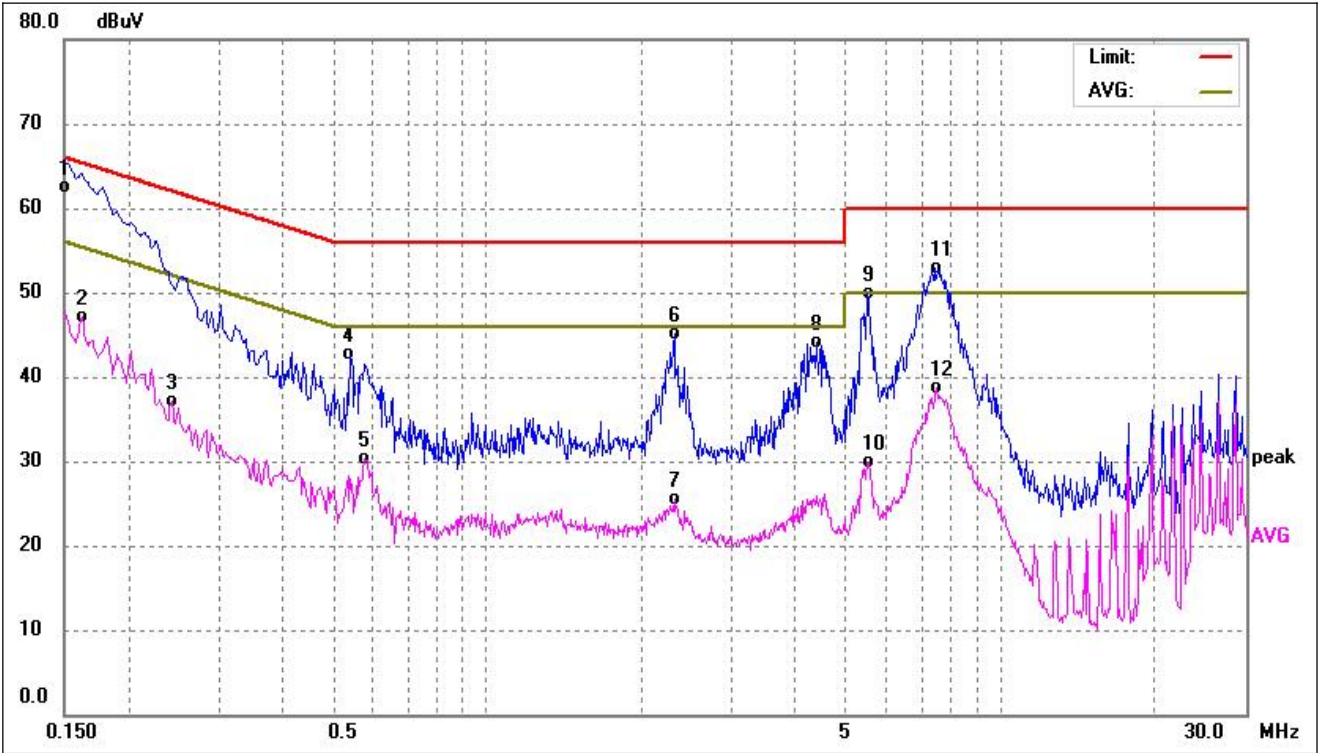
Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	52.06	9.53	61.59	65.99	-4.40	QP
2	0.1620	36.58	9.58	46.16	55.36	-9.20	AVG
3	0.5738	21.39	9.49	30.88	46.00	-15.12	AVG
4	0.5819	32.31	9.49	41.80	56.00	-14.20	QP
5	1.3979	14.83	9.66	24.49	46.00	-21.51	AVG
6	2.3179	35.35	9.90	45.25	56.00	-10.75	QP
7	2.3179	15.55	9.90	25.45	46.00	-20.55	AVG
8	4.3339	35.05	9.57	44.62	56.00	-11.38	QP
9	5.4899	39.18	9.62	48.80	60.00	-11.20	QP
10	5.5259	20.09	9.63	29.72	50.00	-20.28	AVG
11	7.4779	42.72	9.71	52.43	60.00	-7.57	QP
12	7.5419	28.98	9.71	38.69	50.00	-11.31	AVG

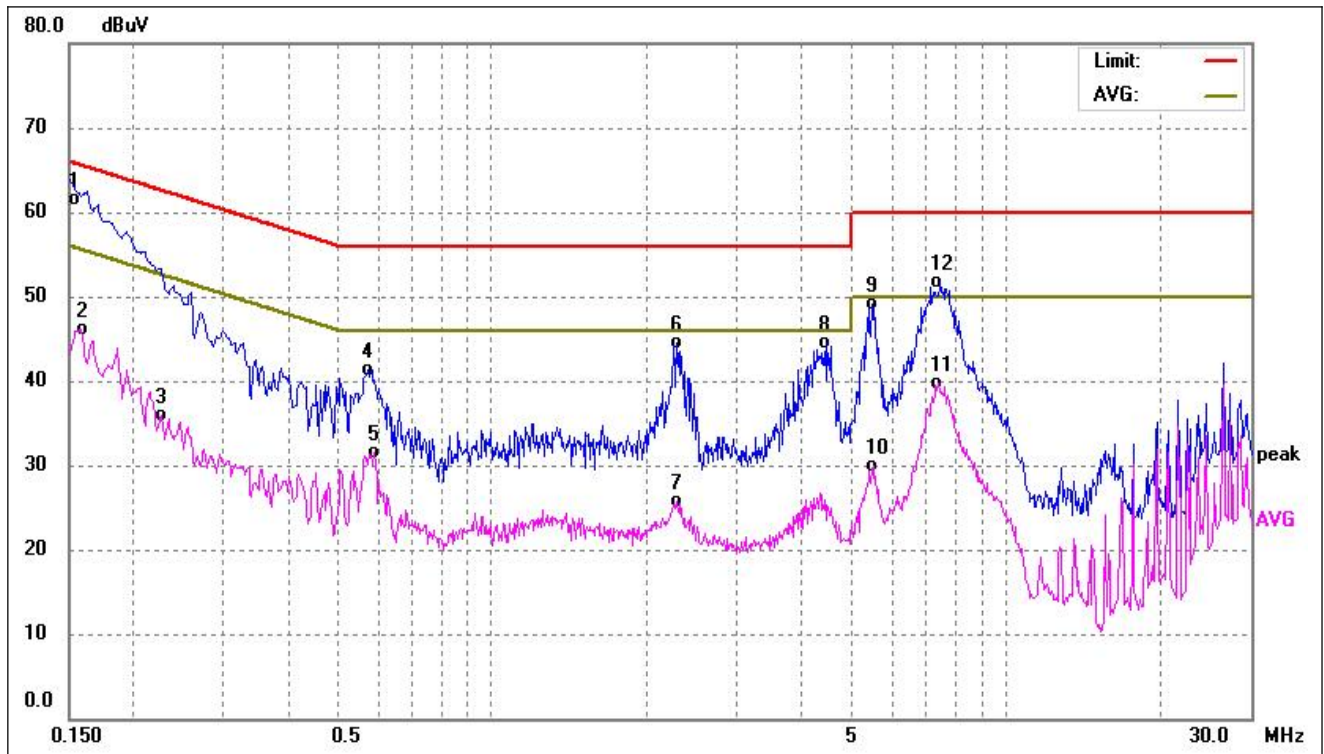
Band 4

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	52.97	9.53	62.50	65.99	-3.49	QP
2	0.1620	37.57	9.58	47.15	55.36	-8.21	AVG
3	0.2419	27.47	9.69	37.16	52.03	-14.87	AVG
4	0.5420	33.15	9.47	42.62	56.00	-13.38	QP
5	0.5778	20.85	9.49	30.34	46.00	-15.66	AVG
6	2.3140	35.25	9.90	45.15	56.00	-10.85	QP
7	2.3140	15.68	9.90	25.58	46.00	-20.42	AVG
8	4.3658	34.47	9.57	44.04	56.00	-11.96	QP
9	5.4778	40.19	9.62	49.81	60.00	-10.19	QP
10	5.5499	20.30	9.63	29.93	50.00	-20.07	AVG
11	7.4180	43.15	9.70	52.85	60.00	-7.15	QP
12	7.5179	28.90	9.71	38.61	50.00	-11.39	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)	Remark
1	0.1500	51.94	9.53	61.47	65.99	-4.52	QP
2	0.1580	36.49	9.56	46.05	55.56	-9.51	AVG
3	0.2260	26.29	9.70	35.99	52.59	-16.60	AVG
4	0.5738	31.81	9.49	41.30	56.00	-14.70	QP
5	0.5899	22.02	9.50	31.52	46.00	-14.48	AVG
6	2.2940	34.63	9.90	44.53	56.00	-11.47	QP
7	2.2940	15.89	9.90	25.79	46.00	-20.21	AVG
8	4.4859	34.86	9.58	44.44	56.00	-11.56	QP
9	5.4820	39.39	9.62	49.01	60.00	-10.99	QP
10	5.5179	20.27	9.63	29.90	50.00	-20.10	AVG
11	7.3860	30.02	9.70	39.72	50.00	-10.28	AVG
12	7.4740	42.04	9.71	51.75	60.00	-8.25	QP

APPENDIX SUMMARY

Project No.	WTX25X12347415W001	Test Engineer	BAldi Zhong
Start date	2026/1/8	Finish date	2026/1/15
Temperature	24.7℃	Humidity	51%
RF specifications	5G WIFI		

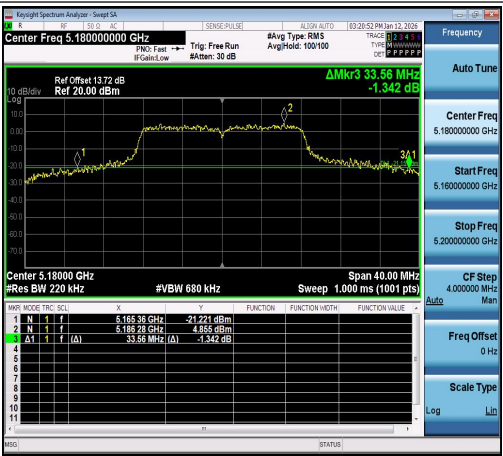
APPENDIX	Description of Test Item	Result
A1	Emission Bandwidth	Compliant
A2	Occupied channel bandwidth	Compliant
A3	Min emission bandwidth	Compliant
B	Duty Cycle	Compliant
C	Maximum conducted output power	Compliant
D	Maximum power spectral density	Compliant
E	Band edge measurements	Compliant
F	Conducted Spurious Emission	Compliant
G	Frequency Stability	Compliant

Appendix A1: Emission Bandwidth**Test Result**

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	33.560	5165.360	5198.920	---	---
11A	Ant1	5200	35.680	5183.360	5219.040	---	---
11A	Ant1	5240	32.840	5224.600	5257.440	---	---
11A	Ant1	5260	32.760	5244.360	5277.120	---	---
11A	Ant1	5280	33.560	5263.720	5297.280	---	---
11A	Ant1	5320	38.320	5300.880	5339.200	---	---
11A	Ant1	5500	37.160	5481.280	5518.440	---	---
11A	Ant1	5580	35.040	5562.840	5597.880	---	---
11A	Ant1	5700	37.640	5680.480	5718.120	---	---
11A	Ant1	5745	31.000	5729.520	5760.520	---	---
11A	Ant1	5785	27.320	5771.280	5798.600	---	---
11A	Ant1	5825	29.240	5811.480	5840.720	---	---
11N20SISO	Ant1	5180	33.240	5165.960	5199.200	---	---
11N20SISO	Ant1	5200	34.840	5184.320	5219.160	---	---
11N20SISO	Ant1	5240	32.640	5225.400	5258.040	---	---
11N20SISO	Ant1	5260	32.400	5244.960	5277.360	---	---
11N20SISO	Ant1	5280	31.600	5264.680	5296.280	---	---
11N20SISO	Ant1	5320	38.560	5301.440	5340.000	---	---
11N20SISO	Ant1	5500	36.080	5482.400	5518.480	---	---
11N20SISO	Ant1	5580	35.920	5562.480	5598.400	---	---
11N20SISO	Ant1	5700	34.800	5681.920	5716.720	---	---
11N20SISO	Ant1	5745	31.520	5729.960	5761.480	---	---
11N20SISO	Ant1	5785	32.280	5770.240	5802.520	---	---
11N20SISO	Ant1	5825	31.080	5810.400	5841.480	---	---
11N40SISO	Ant1	5190	69.360	5160.640	5230.000	---	---
11N40SISO	Ant1	5230	73.680	5195.200	5268.880	---	---
11N40SISO	Ant1	5270	73.360	5236.000	5309.360	---	---
11N40SISO	Ant1	5310	77.680	5272.240	5349.920	---	---
11N40SISO	Ant1	5510	76.320	5471.520	5547.840	---	---
11N40SISO	Ant1	5550	75.440	5512.720	5588.160	---	---
11N40SISO	Ant1	5670	79.680	5630.240	5709.920	---	---
11N40SISO	Ant1	5755	75.040	5715.560	5790.600	---	---
11N40SISO	Ant1	5795	73.920	5757.320	5831.240	---	---
11AC20SISO	Ant1	5180	21.960	5169.480	5191.440	---	---
11AC20SISO	Ant1	5200	21.440	5189.640	5211.080	---	---
11AC20SISO	Ant1	5240	22.200	5228.840	5251.040	---	---
11AC20SISO	Ant1	5260	21.080	5249.480	5270.560	---	---

11AC20SISO	Ant1	5280	21.280	5269.440	5290.720	---	---
11AC20SISO	Ant1	5320	23.800	5308.600	5332.400	---	---
11AC20SISO	Ant1	5500	23.840	5489.280	5513.120	---	---
11AC20SISO	Ant1	5580	22.360	5569.080	5591.440	---	---
11AC20SISO	Ant1	5700	22.320	5688.440	5710.760	---	---
11AC20SISO	Ant1	5745	21.360	5734.400	5755.760	---	---
11AC20SISO	Ant1	5785	20.800	5774.760	5795.560	---	---
11AC20SISO	Ant1	5825	20.640	5814.800	5835.440	---	---
11AC40SISO	Ant1	5190	44.480	5169.680	5214.160	---	---
11AC40SISO	Ant1	5230	40.880	5209.840	5250.720	---	---
11AC40SISO	Ant1	5270	44.480	5249.600	5294.080	---	---
11AC40SISO	Ant1	5310	57.280	5288.880	5346.160	---	---
11AC40SISO	Ant1	5510	45.280	5488.800	5534.080	---	---
11AC40SISO	Ant1	5550	41.760	5528.800	5570.560	---	---
11AC40SISO	Ant1	5670	47.520	5646.640	5694.160	---	---
11AC40SISO	Ant1	5755	40.800	5734.280	5775.080	---	---
11AC40SISO	Ant1	5795	41.440	5774.360	5815.800	---	---
11AC80SISO	Ant1	5210	82.400	5169.680	5252.080	---	---
11AC80SISO	Ant1	5290	83.360	5248.720	5332.080	---	---
11AC80SISO	Ant1	5530	84.800	5486.000	5570.800	---	---
11AC80SISO	Ant1	5610	85.920	5568.720	5654.640	---	---
11AC80SISO	Ant1	5775	80.960	5734.520	5815.480	---	---

Test Graphs



11A-Ant1-5180



11A-Ant1-5200



11A-Ant1-5240



11A-Ant1-5260



11A-Ant1-5280



11A-Ant1-5320



11A-Ant1-5500



11A-Ant1-5580



11A-Ant1-5700