

TEST REPORT

Reference No...... : WTX26X05128021W001
FCC ID : 2BDC6-CAMERA
Applicant : Shelly Europe Ltd.
Address : 51 Cherni Vrah Blvd., bldg.3,fl.2-3,Sofia 1407,Bulgaria
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : Shelly Camera
Model No...... : S1CM-0DXW00
Standards : FCC Part 15.407
Date of Receipt sample : 2026-05-11
Date of Test..... : 2026-07-28 to 2026-08-07
Date of Issue : 2026-08-13
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.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP or any agency of the US government.

Prepared By:

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

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Email: sem@waltek.com.cn

Tested by:

Approved by:

Tris Li

Silin Chen

Tris Li/Project Engineer

Silin Chen/Manager

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Report version

Version No.	Date of issue	Description
Rev.00	2026-08-13	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Shelly Camera
Trade Name:	
Model No.:	S1CM-0DXW00
Adding Model(s):	/
Rated Voltage:	DC5V,1A
Battery Capacity:	/
Power Adapter:	/
<i>Note: The sample information is provided by the customer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11a, 802.11n-HT20, 802.11n-HT40
Frequency Range:	5180-5240MHz, 5260-5320MHz 5500-5700MHz, 5745-5825MHz
Max. RF Output Power:	15.12dBm (Conducted)
Type of Modulation:	BPSK, QPSK, 16QAM, 64QAM
Type of Antenna:	FPC Antenna
Antenna Gain:	4.71dBi
<i>Note: 1: The Antenna Gain is provided by the customer and can affect the validity of results.</i> <i>2: The data provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.407: General technical requirements.

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

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

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

Start testing after successfully configuring the EUT through serial port connection using SecureCRT software. During the testing process, use the channel and power control instructions provided by the customer to control the working channel and output power level. RF output power selection is used to set the customer's desired RF output power and will be fixed on the firmware of the final product.

Mode	Test Frequency (MHz)											
	NCB: 20MHz											
	5180	5200	5240	5260	5280	5320	5500	5580	5700	5745	5785	5825
802.11a 6Mbps	18	18	18	18	18	18	18	18	18	19	19	19
802.11n-HT20 MCS0	18	18	18	17	17	17	17	18	17	20	19	19
Mode	NCB: 40MHz											
	5190	5230	5270	5310	5510	5550	5670	5710	5755	5795		
802.11n-HT40 MCS0	17	17	16	16	17	17	17	17	18	18		

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	802.11n-HT40	5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5550MHz,5670MHz,5755MHz,5795MHz

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
TYPE-C Cable	1.95	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
Adapter	iottie	CHCRIO160	E488794

1.8 Measurement Uncertainty

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

1.9 Test Equipment List and Details

Internal No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1002	Communication Tester	Rohde & Schwarz	CMW500	1201.0002 k50-14865 0-FB	2026-03-25	2027-03-24
WTXE1005A 1005	MXA Signal Analyzer	Agilent	N9020A	US471401 02	2026-03-25	2027-03-24
WTXE1084A 1001	MXA Signal Analyzer	KEYSIGHT	N9020A	MY543205 48	2026-02-06	2027-02-05
WTXE1005A 1006	Spectrum Analyzer	Rohde & Schwarz	FSP40	1164.4391 K38Ser. 100368	2026-04-29	2027-04-28
WTXW1105A 1136	RF ATTENUATOR	FEIYANG	N-JK	/	2026-02-06	2027-02-05
WTXE1003A 1-005	Coaxial Cable	/	0M4RFC	/	2026-02-23	2027-02-22
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2026-02-05	2027-02-04
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2026-02-05	2027-02-04
WTXE1007A 1002	Amplifier	HP	8447F	2805A034 75	2026-02-05	2027-02-04
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2026-02-05	2027-02-04
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2026-03-11	2029-03-10
WTXE1104A 1032-1	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1032-2	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1032-3	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2026-02-05	2027-02-04
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2026-02-05	2027-02-04
WTXE1065A 1001	Amplifier	C&D	PAP-1.0G18	14918	2026-02-05	2027-02-04
WTXE1010A	Horn Antenna	ETS	3117	00086197	2026-02-05	2027-02-04

1005						
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2026-02-10	2027-02-09
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2026-02-05	2027-02-04
WTXE1104A 1033-1	Coaxial Cable	/	C16-07-07	/	2026-02-23	2027-02-22
WTXE1104A 1033-2	Coaxial Cable	/	C16-07-07	/	2026-02-23	2027-02-22
WTXE1104A 1033-3	Coaxial Cable	/	C16-07-07	/	2026-02-23	2027-02-22
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2026-02-05	2027-02-04
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2026-02-05	2027-02-04
WTXE1104A 1031-1	Coaxial Cable	/	1.5MRFC-LWB3	/	2026-02-23	2027-02-22
WTXE1104A 1031-2	Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22
WTXE1104A 1031-3	Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2026-02-05	2027-02-04
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2026-02-05	2027-02-04
WTXE1007A 1003	Amplifier	HP	8447F	2944A038 69	2026-02-05	2027-02-04
WTXE1104A 1034-1	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1034-2	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1034-3	Coaxial Cable	/	RC_6G-N-M	/	2026-02-23	2027-02-22
☒ Chamber C: Above 1GHz						

WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2026-02-05	2027-02-04
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2025-06-13	2027-06-12
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2026-02-05	2027-02-04
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2026-02-10	2027-02-09
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2026-02-05	2027-02-04
WTXE1104A 1035-1	Coaxial Cable	/	RC-18G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1035-2	Coaxial Cable	/	RC-18G-N-M	/	2026-02-23	2027-02-22
WTXE1104A 1035-3	Coaxial Cable	/	RC-18G-N-M	/	2026-02-23	2027-02-22
☐ Conducted Room 1#						
WTXE1104A 1029	EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2025-11-25	2026-11-24
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2026-02-05	2027-02-04
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2026-02-05	2027-02-04
WTXE1104A 1036	Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22
WTXE1104A 1038	Coaxial Cable	/	6MRFC-DP	/	2026-02-23	2027-02-22
☒ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2026-02-05	2027-02-04
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2026-02-05	2027-02-04
WTXE1104A 1037	Coaxial Cable	/	RG 316	/	2026-02-23	2027-02-22

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

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

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.405	Antenna Requirement	Compliant
15.407 (c)	Automatically Discontinue Transmission	Compliant
§15.207; §15.407(b)(6)	Conducted Emission	Compliant
§15.407(a)(1),(2)	Power Spectral Density	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 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 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.: WTX26X05128021W001

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 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.

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

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

where:

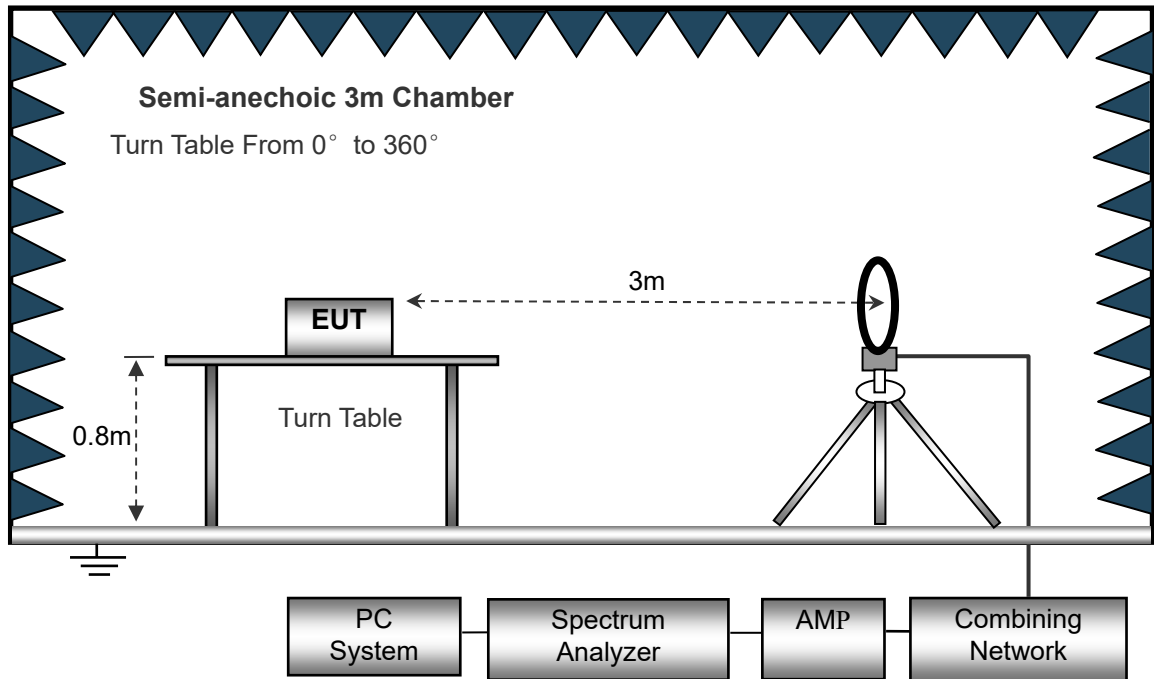
- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

8.2 Test Procedure

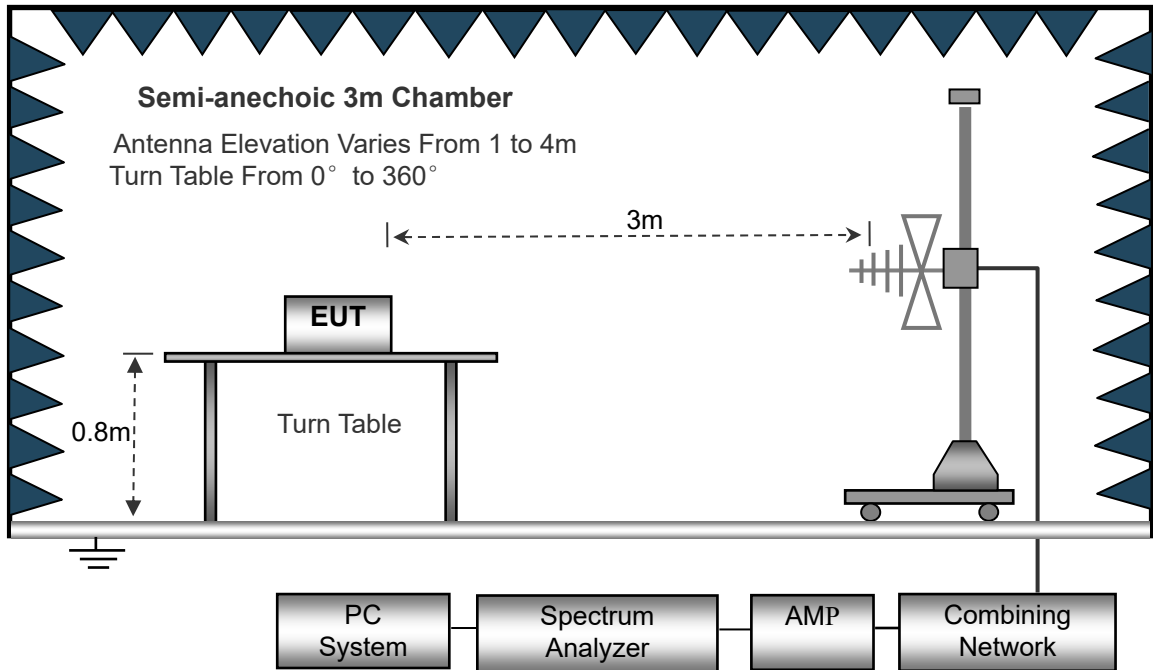
The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

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.

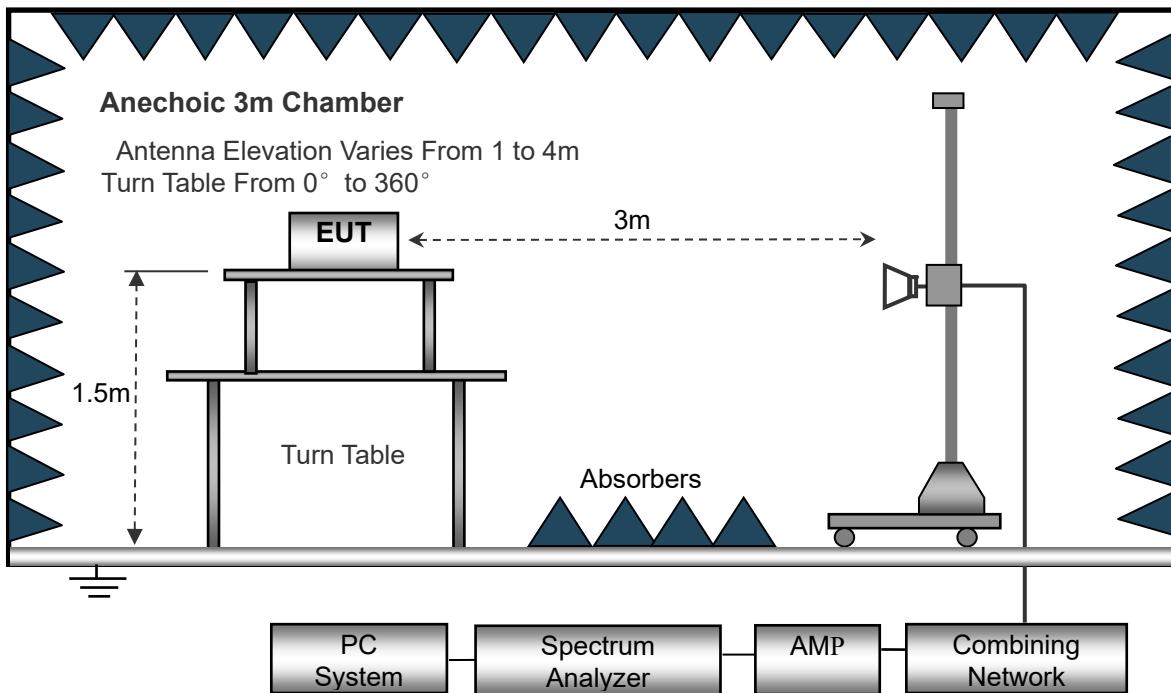
The test setup for emission measurement below 30MHz.



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:

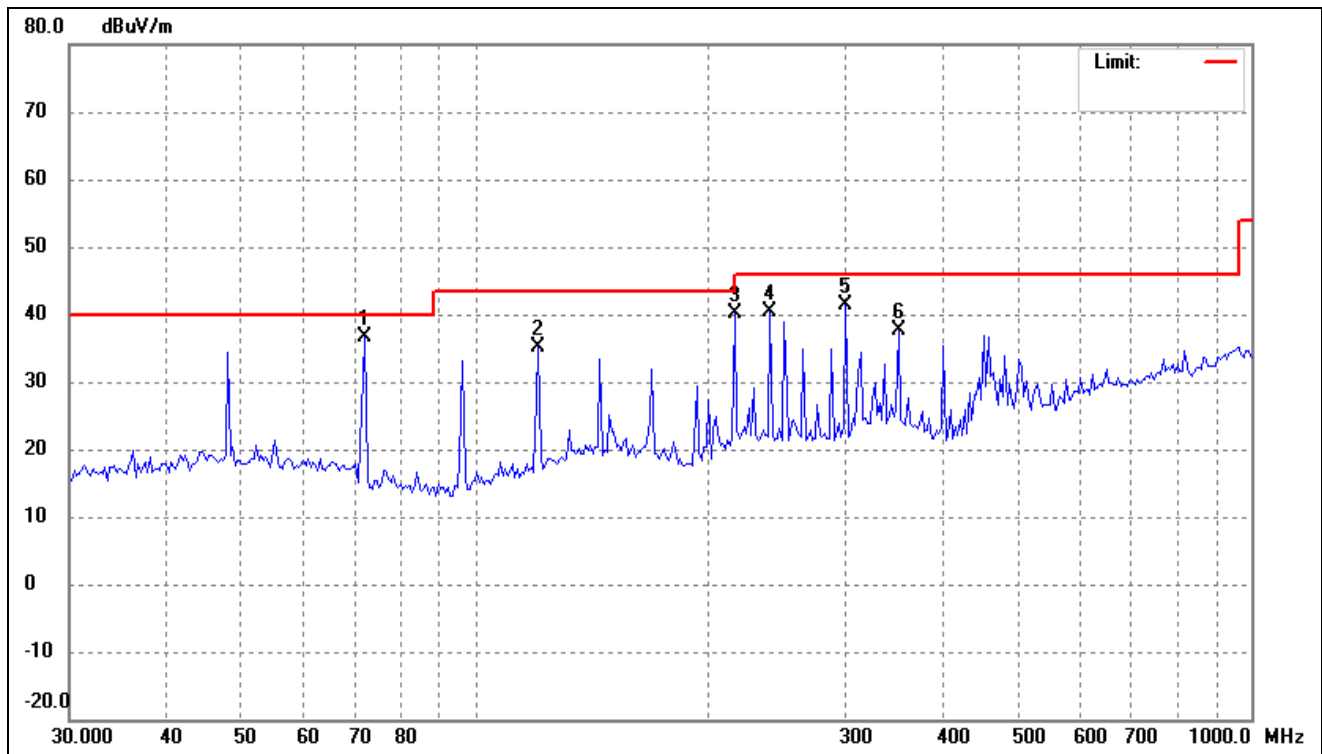
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

8.5 Summary of Test Results/Plots

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

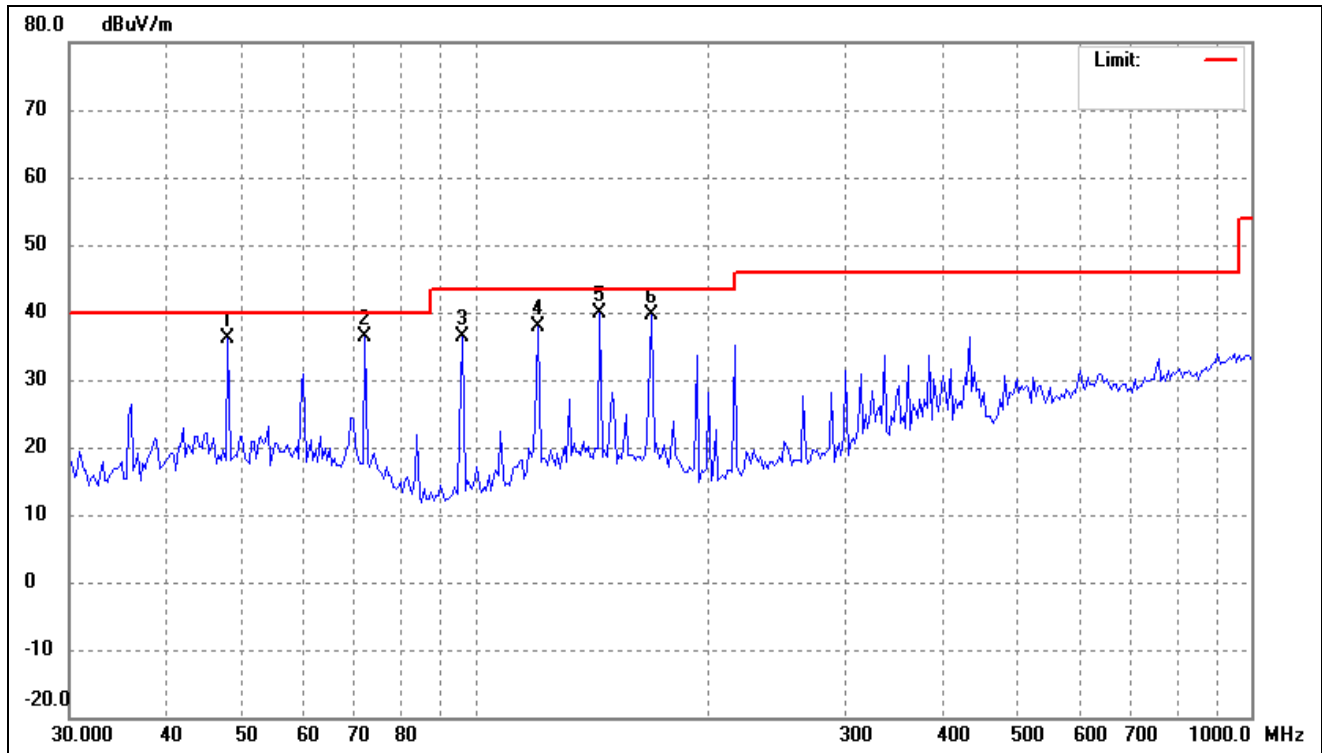
- Spurious Emission From 30MHz to 1GHz
- 5150-5250MHz

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



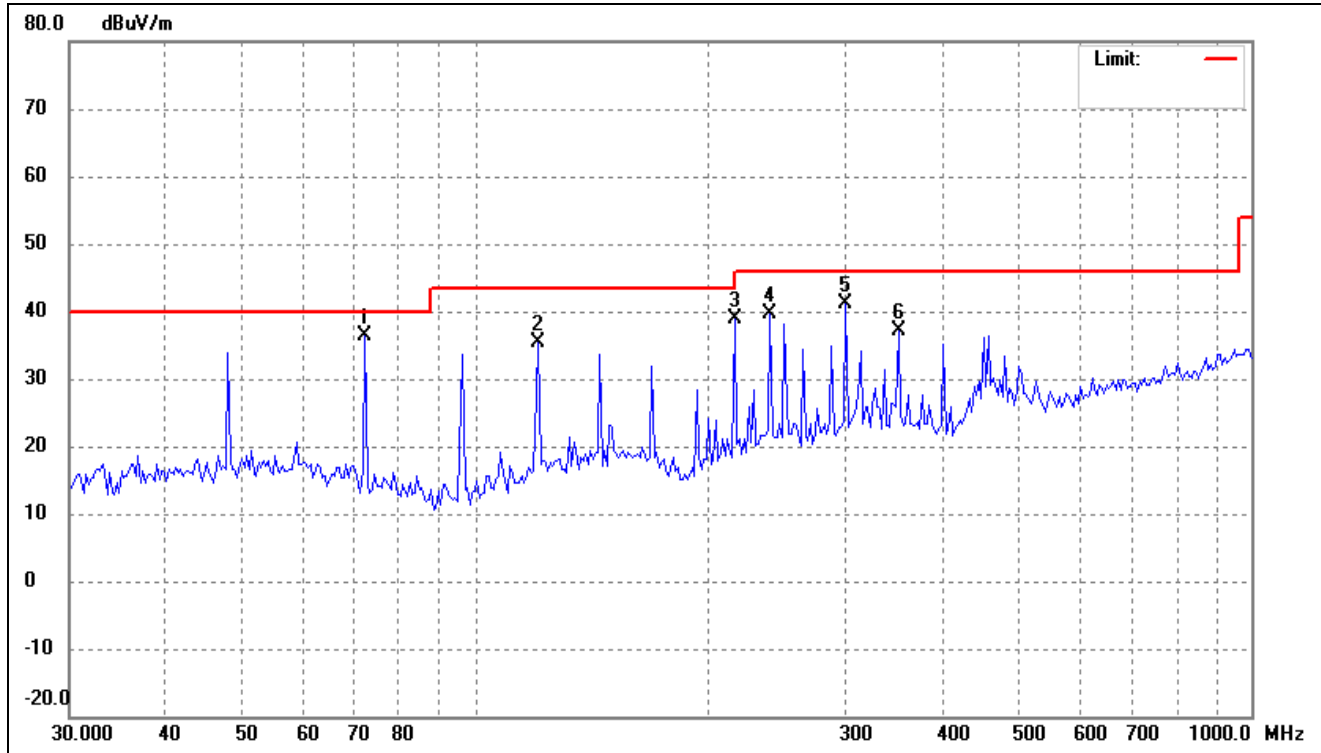
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	72.2111	47.35	-10.80	36.55	40.00	-3.45	-	-	peak
2	120.6118	45.30	-10.23	35.07	43.50	-8.43	-	-	peak
3	216.1197	51.91	-11.88	40.03	46.00	-5.97	-	-	peak
4	240.1442	50.66	-10.32	40.34	46.00	-5.66	-	-	peak
5	300.6988	49.53	-8.26	41.27	46.00	-4.73	-	-	peak
6	350.9722	44.99	-7.35	37.64	46.00	-8.36	-	-	peak

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



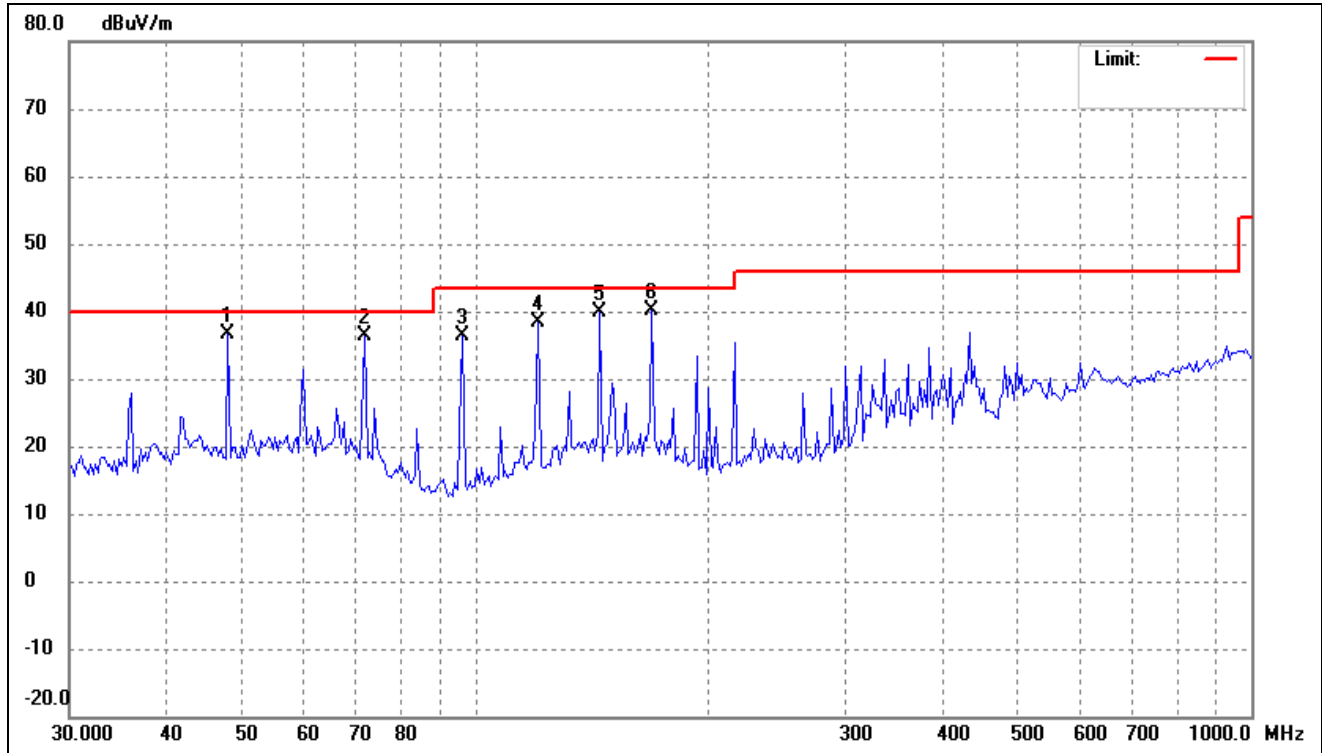
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	44.42	-8.29	36.13	40.00	-3.87	-	-	peak
2	72.2111	47.08	-10.80	36.28	40.00	-3.72	-	-	peak
3	96.3230	49.67	-13.36	36.31	43.50	-7.19	-	-	peak
4	120.6118	48.11	-10.23	37.88	43.50	-5.62	-	-	peak
5	144.7899	48.67	-8.74	39.93	43.50	-3.57	-	-	peak
6	168.9970	48.33	-8.61	39.72	43.50	-3.78	-	-	peak

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



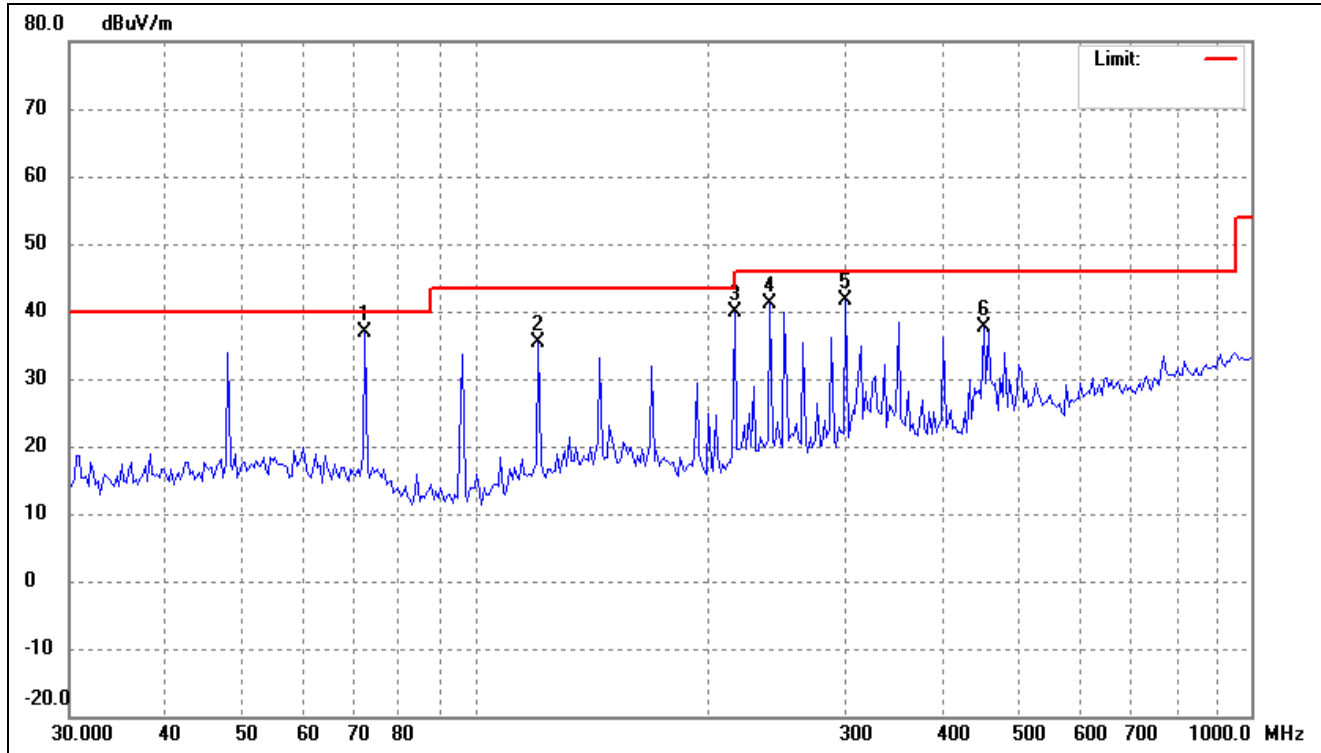
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	72.2111	47.20	-10.80	36.40	40.00	-3.60	-	-	peak
2	120.6118	45.72	-10.23	35.49	43.50	-8.01	-	-	peak
3	216.1197	50.88	-11.88	39.00	46.00	-7.00	-	-	peak
4	240.1442	50.06	-10.32	39.74	46.00	-6.26	-	-	peak
5	300.6988	49.31	-8.26	41.05	46.00	-4.95	-	-	peak
6	350.9722	44.44	-7.35	37.09	46.00	-8.91	-	-	peak

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



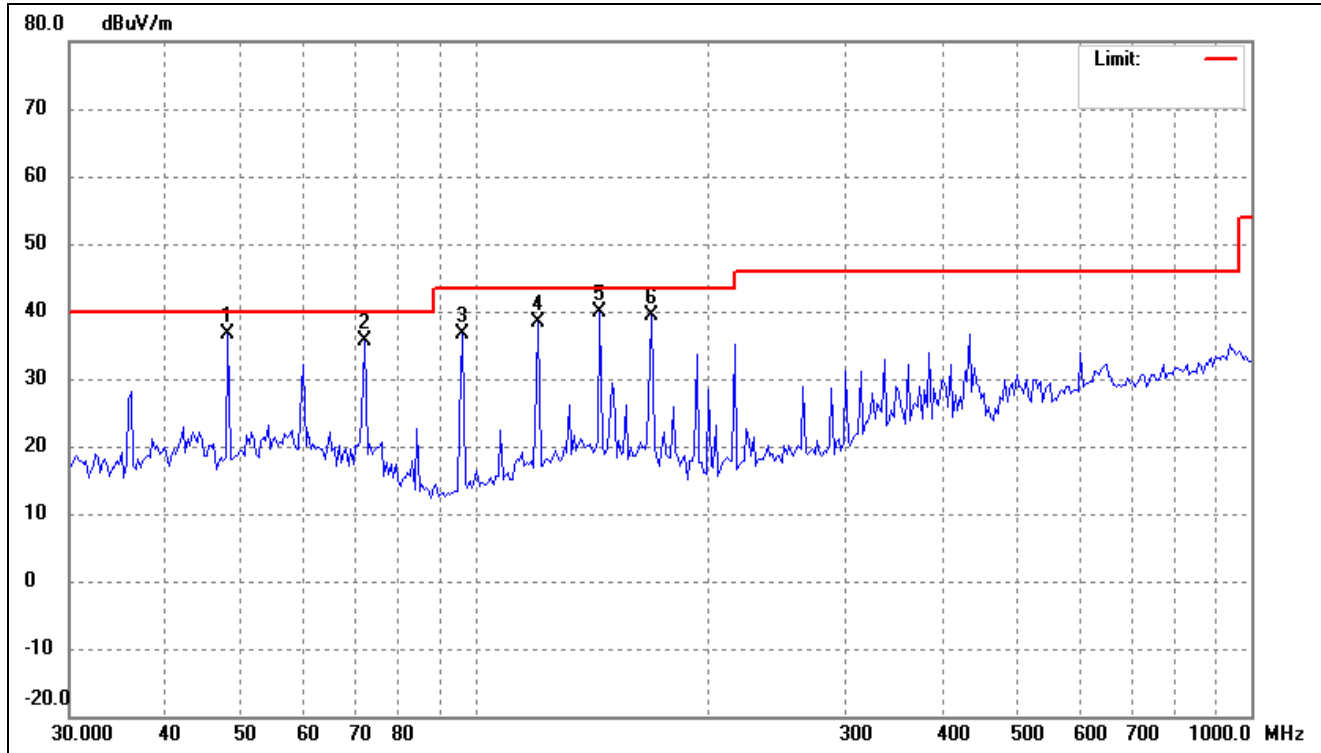
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	44.95	-8.29	36.66	40.00	-3.34	-	-	peak
2	72.2111	47.07	-10.80	36.27	40.00	-3.73	-	-	peak
3	96.3230	49.76	-13.36	36.40	43.50	-7.10	-	-	peak
4	120.6118	48.51	-10.23	38.28	43.50	-5.22	-	-	peak
5	144.7899	48.66	-8.74	39.92	43.50	-3.58	-	-	peak
6	168.9970	48.64	-8.61	40.03	43.50	-3.47	-	-	peak

802.11n-HT40			
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	72.2111	47.75	-10.80	36.95	40.00	-3.05	-	-	peak
2	120.6118	45.62	-10.23	35.39	43.50	-8.11	-	-	peak
3	216.1197	51.81	-11.88	39.93	46.00	-6.07	-	-	peak
4	240.1442	51.46	-10.32	41.14	46.00	-4.86	-	-	peak
5	300.6988	49.84	-8.26	41.58	46.00	-4.42	-	-	peak
6	452.0013	42.19	-4.60	37.59	46.00	-8.41	-	-	peak

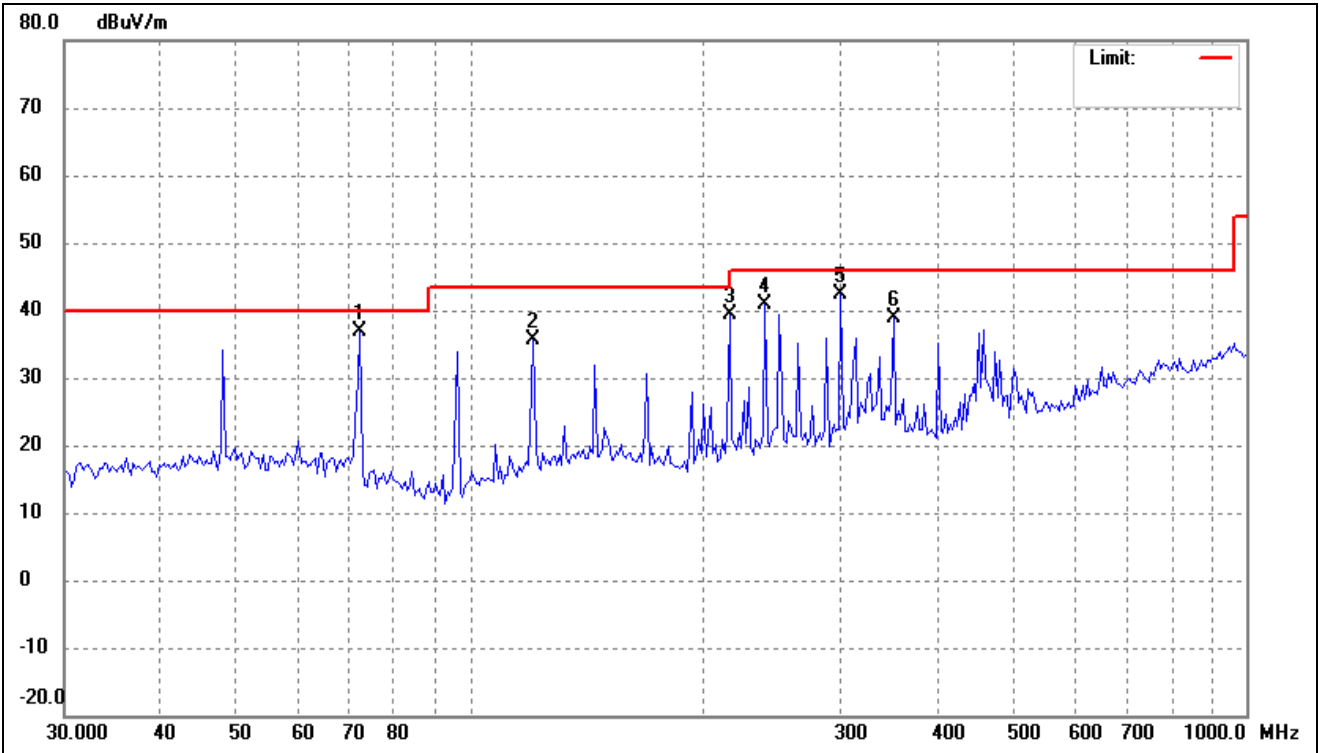
802.11n-HT40			
Test Channel	5190MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	44.93	-8.29	36.64	40.00	-3.36	-	-	peak
2	72.2111	46.43	-10.80	35.63	40.00	-4.37	-	-	peak
3	96.3230	49.99	-13.36	36.63	43.50	-6.87	-	-	peak
4	120.6118	48.59	-10.23	38.36	43.50	-5.14	-	-	peak
5	144.7899	48.61	-8.74	39.87	43.50	-3.63	-	-	peak
6	168.9970	48.10	-8.61	39.49	43.50	-4.01	-	-	peak

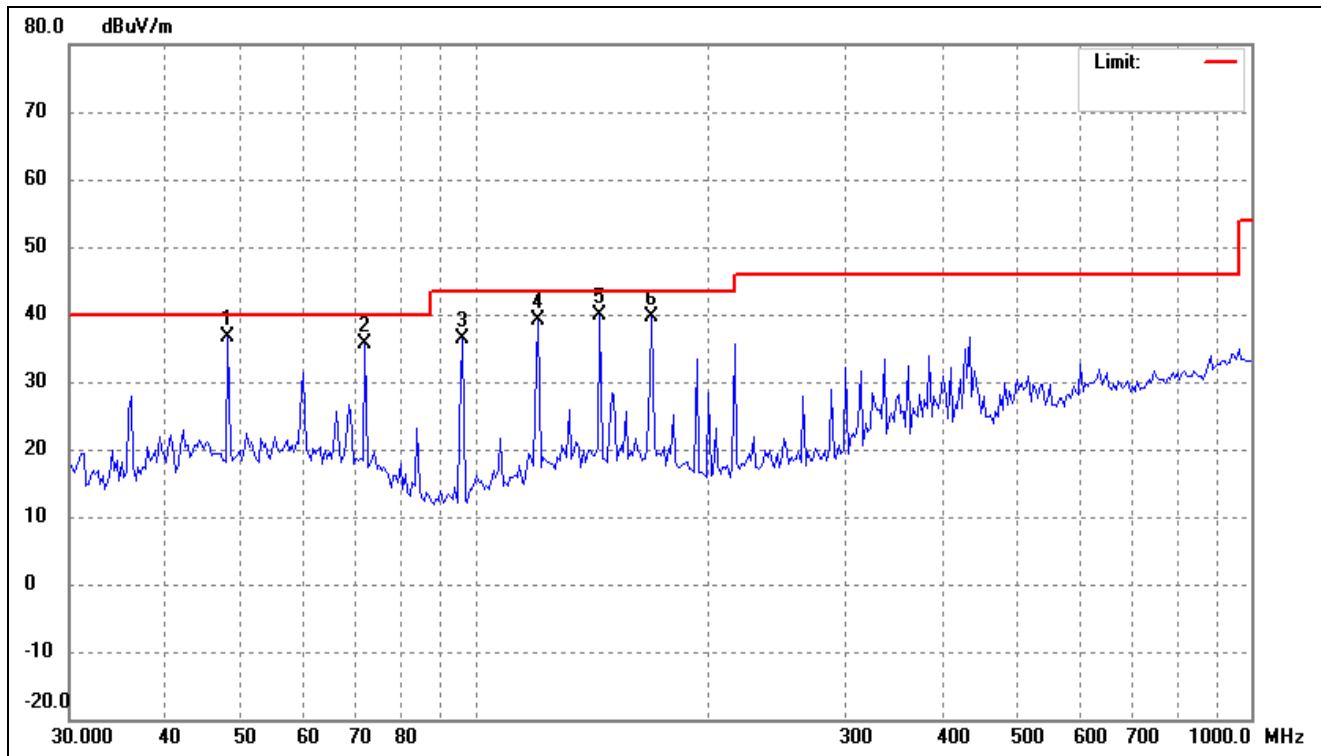
➤ 5250-5350MHz

802.11a			
Test Channel	5260MHz	Polarity:	Horizontal



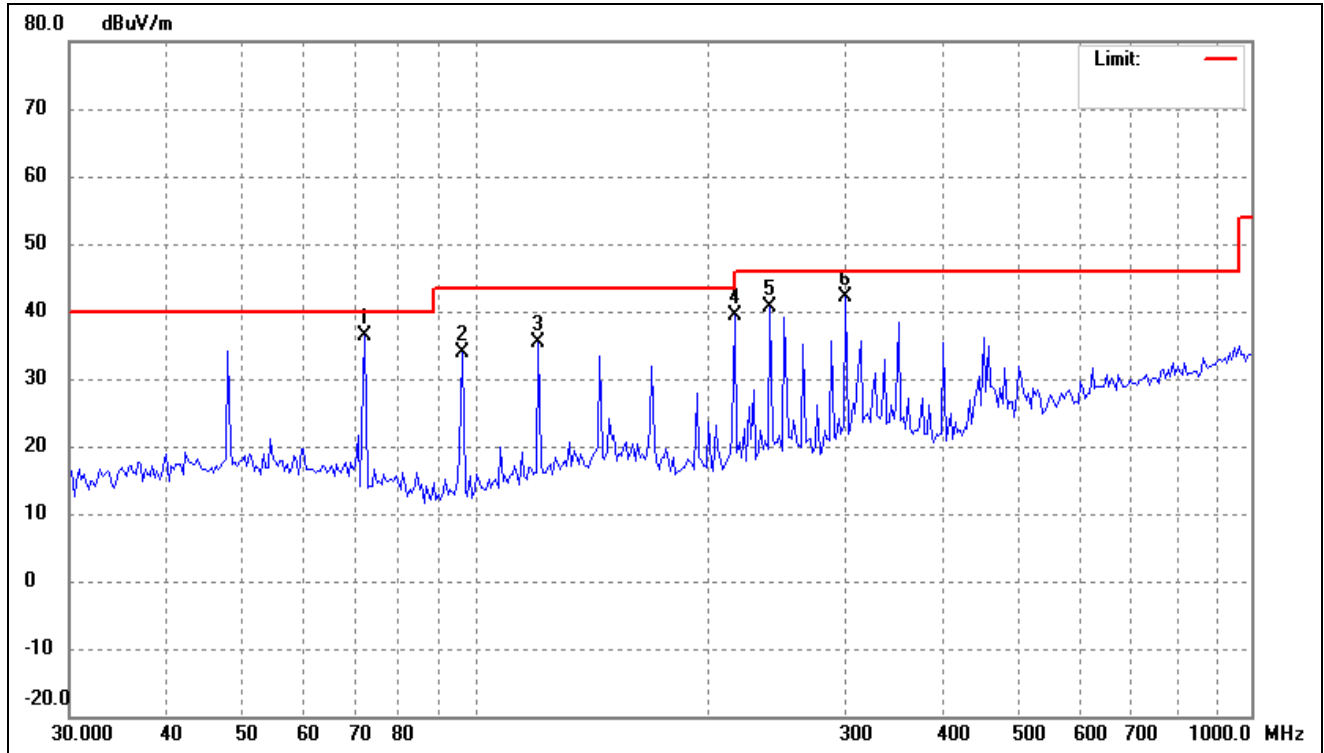
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	72.2111	47.72	-10.80	36.92	40.00	-3.08	-	-	peak
2	120.6118	45.77	-10.23	35.54	43.50	-7.96	-	-	peak
3	216.1197	51.36	-11.88	39.48	46.00	-6.52	-	-	peak
4	240.1442	51.13	-10.32	40.81	46.00	-5.19	-	-	peak
5	300.6988	50.63	-8.26	42.37	46.00	-3.63	-	-	peak
6	350.9722	46.18	-7.35	38.83	46.00	-7.17	-	-	peak

802.11a			
Test Channel	5260MHz(worst case)	Polarity:	Vertical



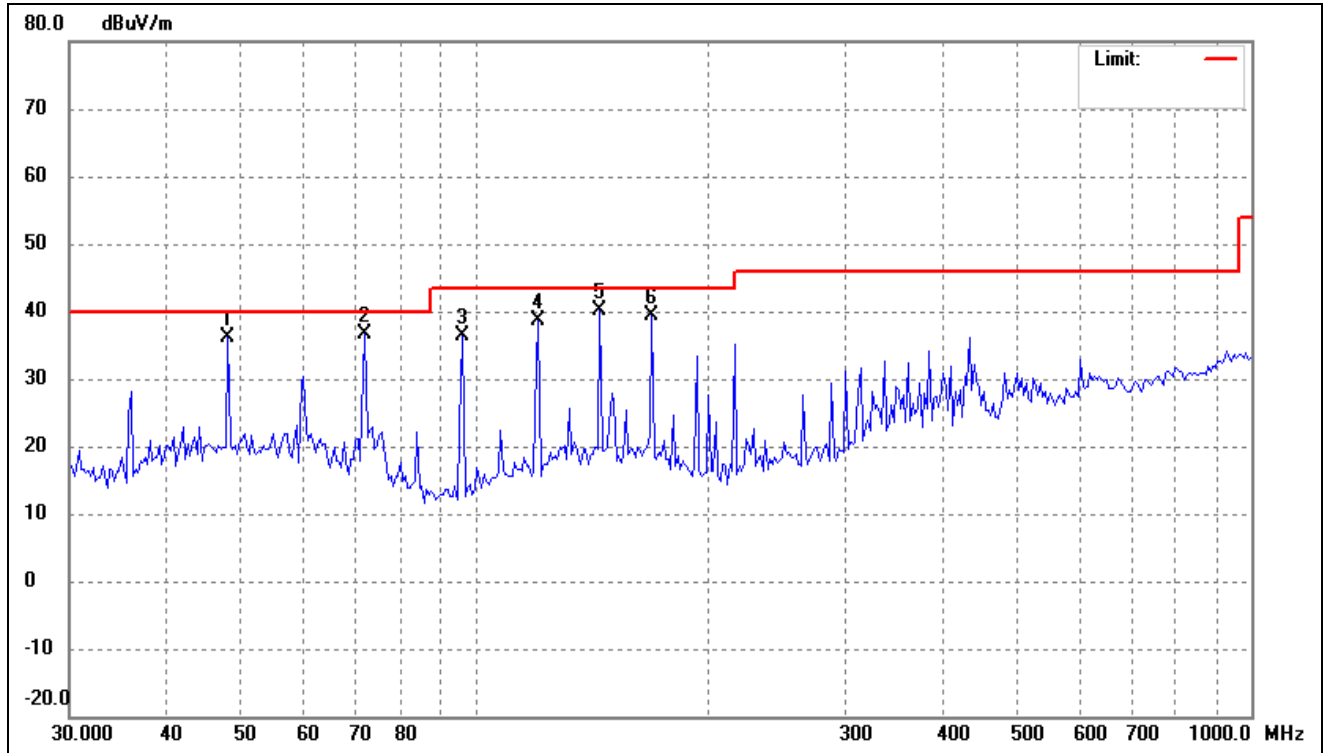
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	44.93	-8.29	36.64	40.00	-3.36	-	-	peak
2	72.2111	46.40	-10.80	35.60	40.00	-4.40	-	-	peak
3	96.3230	49.70	-13.36	36.34	43.50	-7.16	-	-	peak
4	120.6118	49.43	-10.23	39.20	43.50	-4.30	-	-	peak
5	144.7899	48.59	-8.74	39.85	43.50	-3.65	-	-	peak
6	168.9970	48.19	-8.61	39.58	43.50	-3.92	-	-	peak

802.11n-HT20			
Test Channel	5260MHz(worst case)	Polarity:	Horizontal



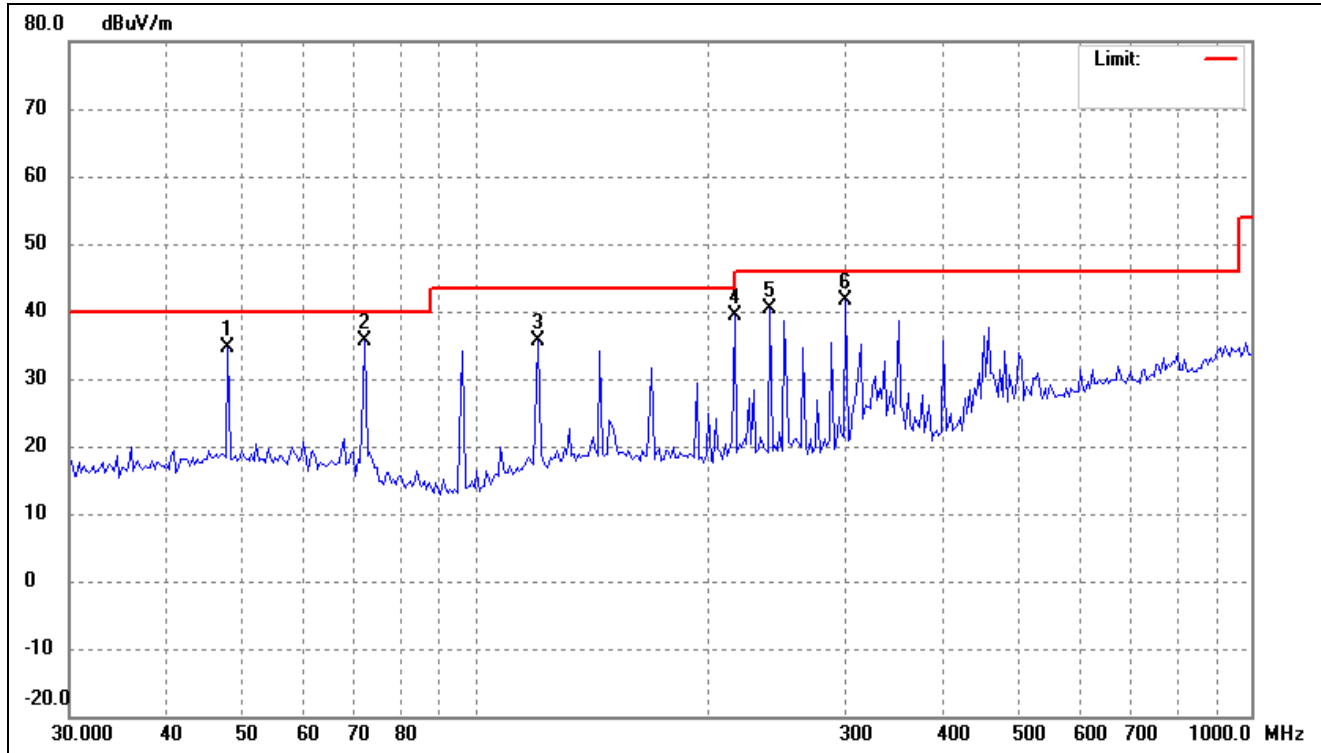
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	72.2111	47.07	-10.80	36.27	40.00	-3.73	-	-	peak
2	96.3230	47.25	-13.36	33.89	43.50	-9.61	-	-	peak
3	120.6118	45.65	-10.23	35.42	43.50	-8.08	-	-	peak
4	216.1197	51.29	-11.88	39.41	46.00	-6.59	-	-	peak
5	240.1442	50.91	-10.32	40.59	46.00	-5.41	-	-	peak
6	300.6988	50.40	-8.26	42.14	46.00	-3.86	-	-	peak

802.11n-HT20			
Test Channel	5260MHz(worst case)	Polarity:	Vertical



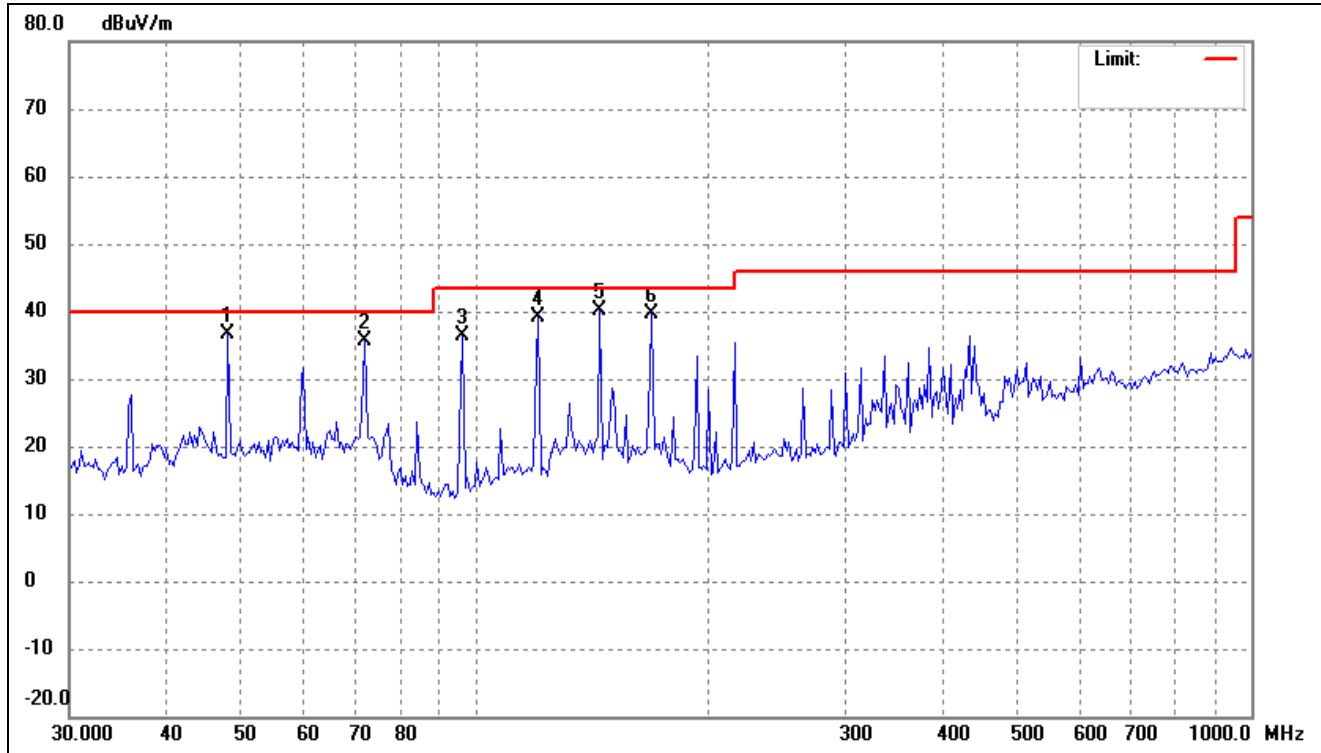
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	44.43	-8.29	36.14	40.00	-3.86	-	-	peak
2	72.2110	47.40	-10.80	36.60	40.00	-3.40	-	-	peak
3	96.3230	49.83	-13.36	36.47	43.50	-7.03	-	-	peak
4	120.6117	48.94	-10.23	38.71	43.50	-4.79	-	-	peak
5	144.7898	48.95	-8.74	40.21	43.50	-3.29	-	-	peak
6	168.9970	48.01	-8.61	39.40	43.50	-4.10	-	-	peak

802.11n-HT40			
Test Channel	5270MHz(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	48.0392	42.87	-8.29	34.58	40.00	-5.42	-	-	peak
2	72.2111	46.31	-10.80	35.51	40.00	-4.49	-	-	peak
3	120.6118	45.80	-10.23	35.57	43.50	-7.93	-	-	peak
4	216.1197	51.33	-11.88	39.45	46.00	-6.55	-	-	peak
5	240.1442	50.67	-10.32	40.35	46.00	-5.65	-	-	peak
6	300.6988	49.99	-8.26	41.73	46.00	-4.27	-	-	peak

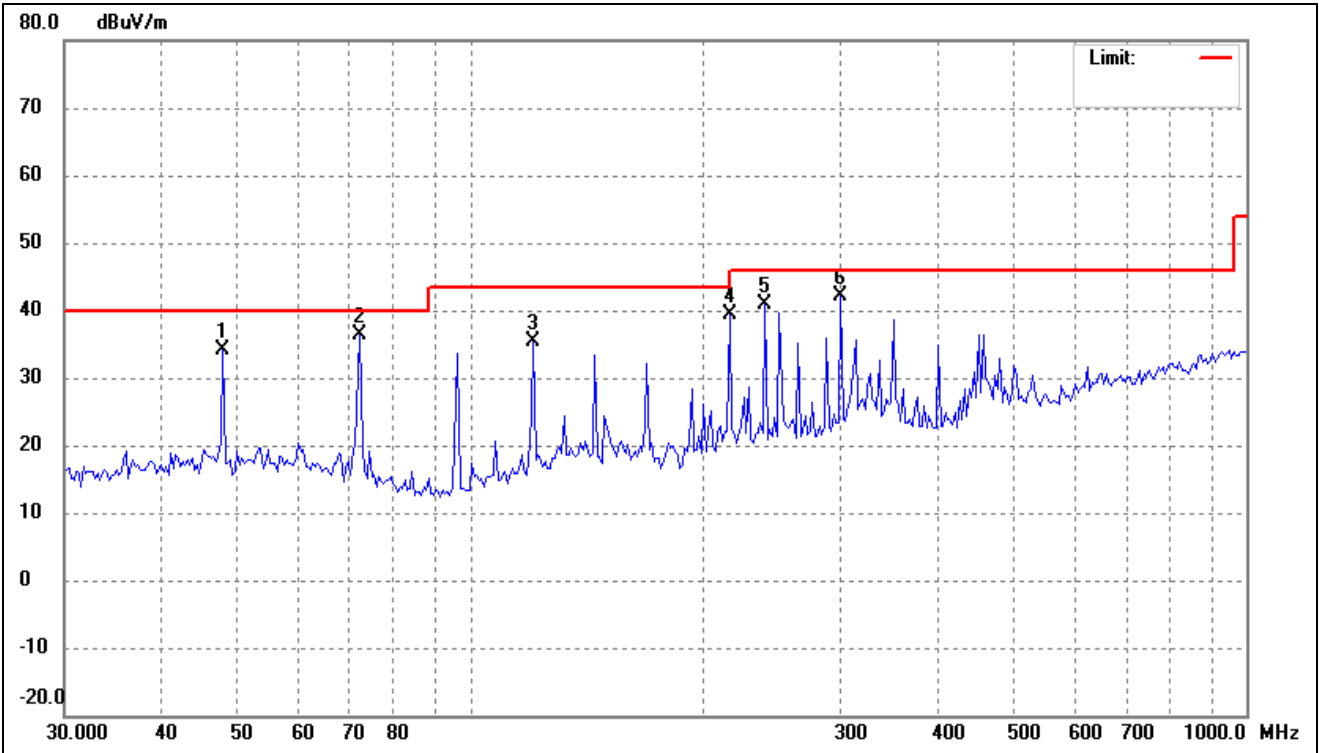
802.11n-HT40			
Test Channel	5270MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	44.97	-8.29	36.68	40.00	-3.32	-	-	peak
2	72.2111	46.48	-10.80	35.68	40.00	-4.32	-	-	peak
3	96.3230	49.76	-13.36	36.40	43.50	-7.10	-	-	peak
4	120.6118	49.43	-10.23	39.20	43.50	-4.30	-	-	peak
5	144.7899	48.83	-8.74	40.09	43.50	-3.41	-	-	peak
6	168.9970	48.14	-8.61	39.53	43.50	-3.97	-	-	peak

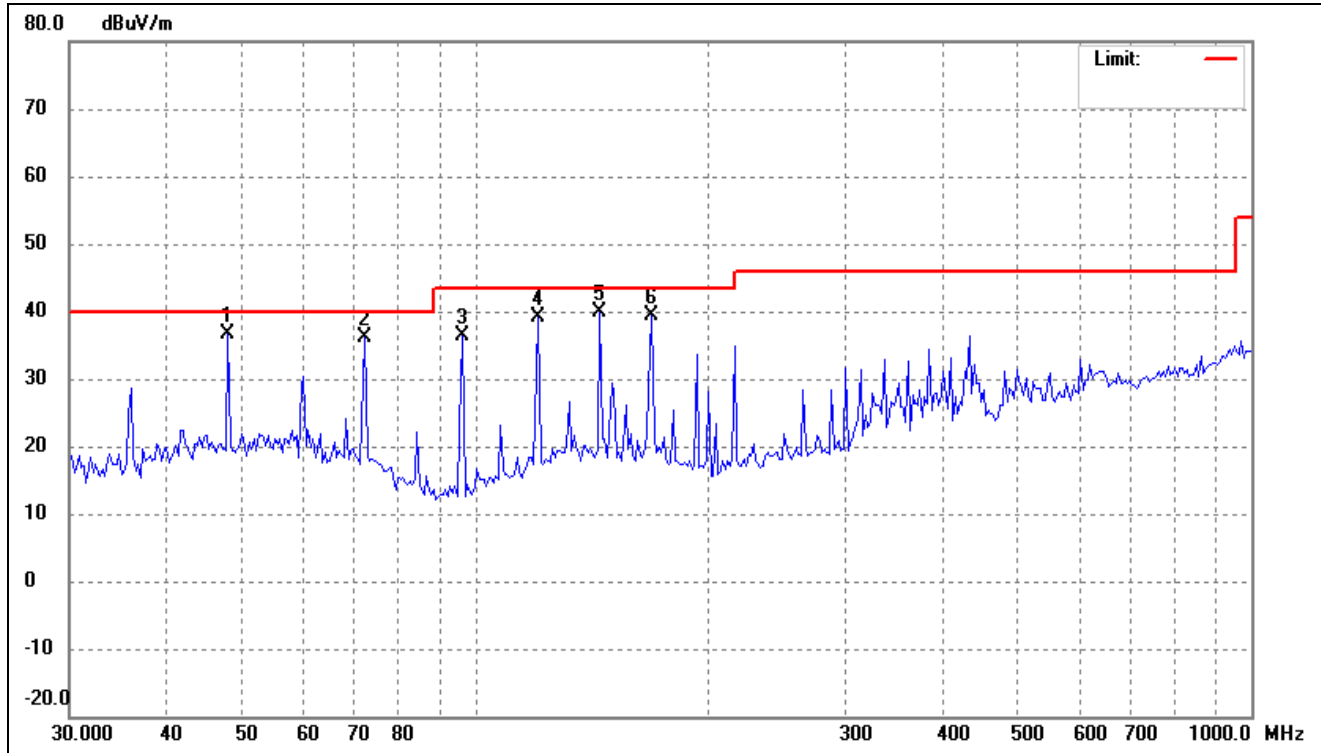
➤ 5470-5725MHz

802.11a			
Test Channel	5500MHz(worst case)	Polarity:	Horizontal



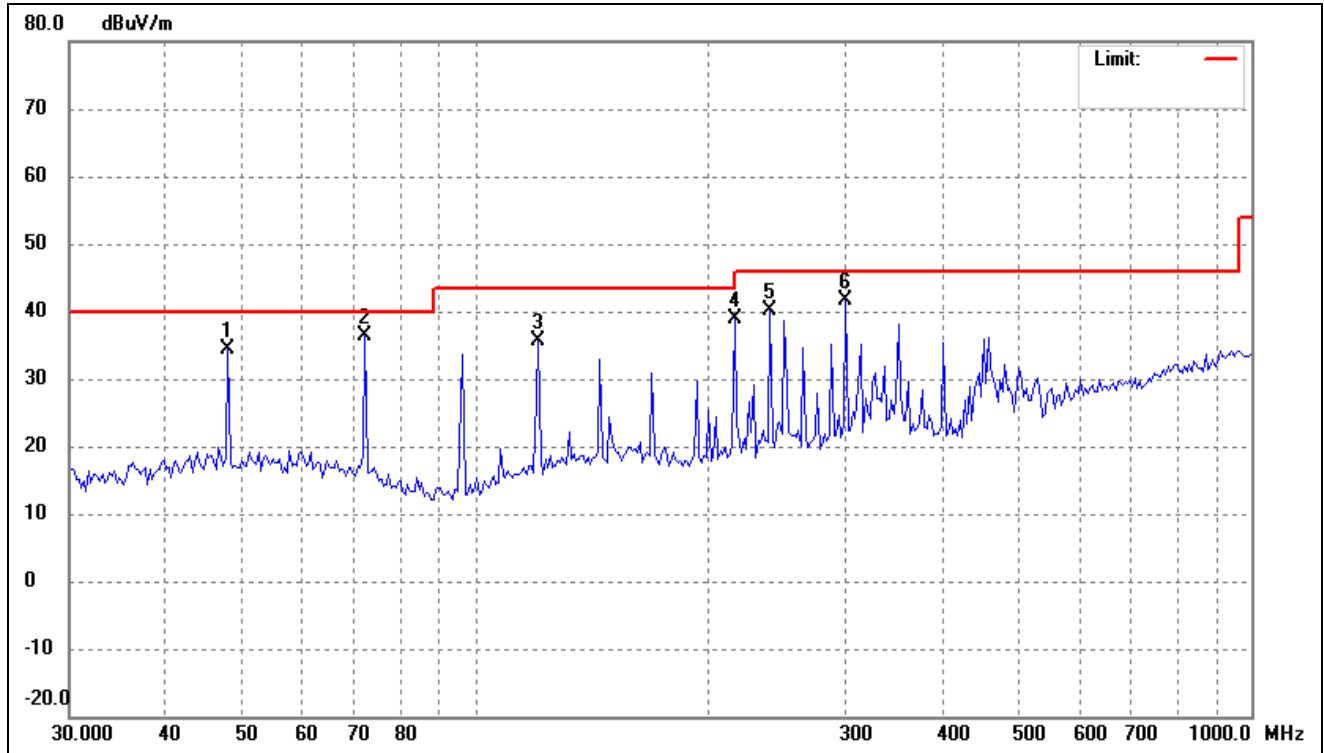
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	42.39	-8.29	34.10	40.00	-5.90	-	-	peak
2	72.2111	47.22	-10.80	36.42	40.00	-3.58	-	-	peak
3	120.6118	45.64	-10.23	35.41	43.50	-8.09	-	-	peak
4	216.1197	51.20	-11.88	39.32	46.00	-6.68	-	-	peak
5	240.1442	51.28	-10.32	40.96	46.00	-5.04	-	-	peak
6	300.6988	50.33	-8.26	42.07	46.00	-3.93	-	-	peak

802.11a			
Test Channel	5500MHz(worst case)	Polarity:	Vertical



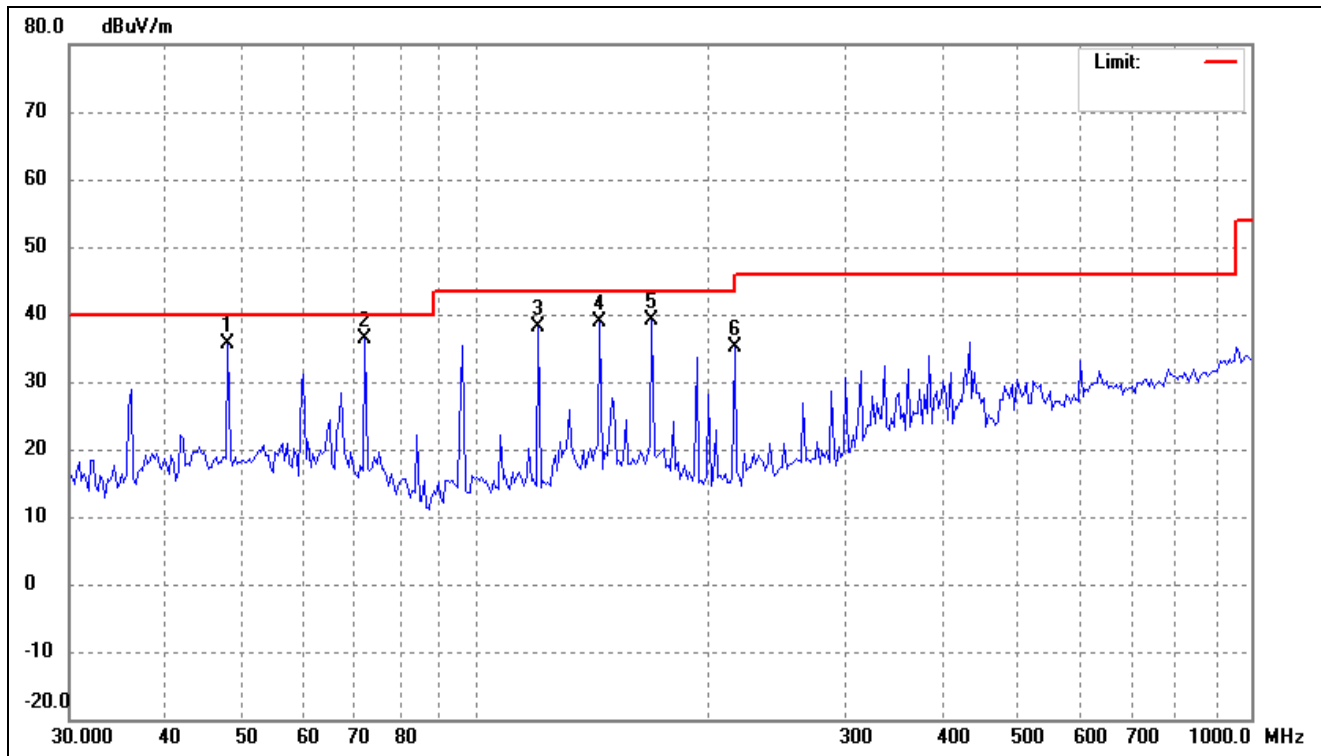
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	45.02	-8.29	36.73	40.00	-3.27	-	-	peak
2	72.2111	47.00	-10.80	36.20	40.00	-3.80	-	-	peak
3	96.3230	49.80	-13.36	36.44	43.50	-7.06	-	-	peak
4	120.6118	49.28	-10.23	39.05	43.50	-4.45	-	-	peak
5	144.7899	48.64	-8.74	39.90	43.50	-3.60	-	-	peak
6	168.9970	47.99	-8.61	39.38	43.50	-4.12	-	-	peak

802.11n-HT20			
Test Channel	5500MHz(worst case)	Polarity:	Horizontal



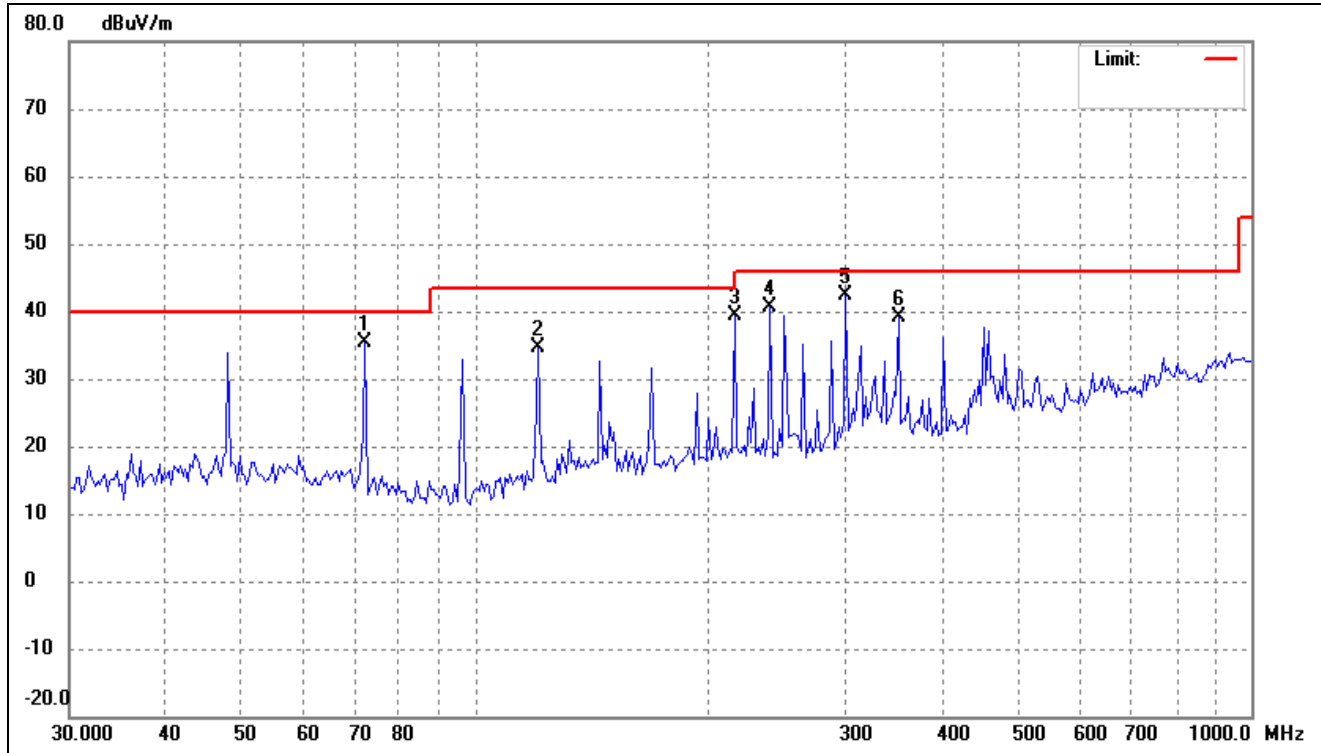
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	42.65	-8.29	34.36	40.00	-5.64	-	-	peak
2	72.2111	47.06	-10.80	36.26	40.00	-3.74	-	-	peak
3	120.6118	45.77	-10.23	35.54	43.50	-7.96	-	-	peak
4	216.1197	50.68	-11.88	38.80	46.00	-7.20	-	-	peak
5	240.1442	50.52	-10.32	40.20	46.00	-5.80	-	-	peak
6	300.6988	49.79	-8.26	41.53	46.00	-4.47	-	-	peak

802.11n-HT20			
Test Channel	5500MHz(worst case)	Polarity:	Vertical



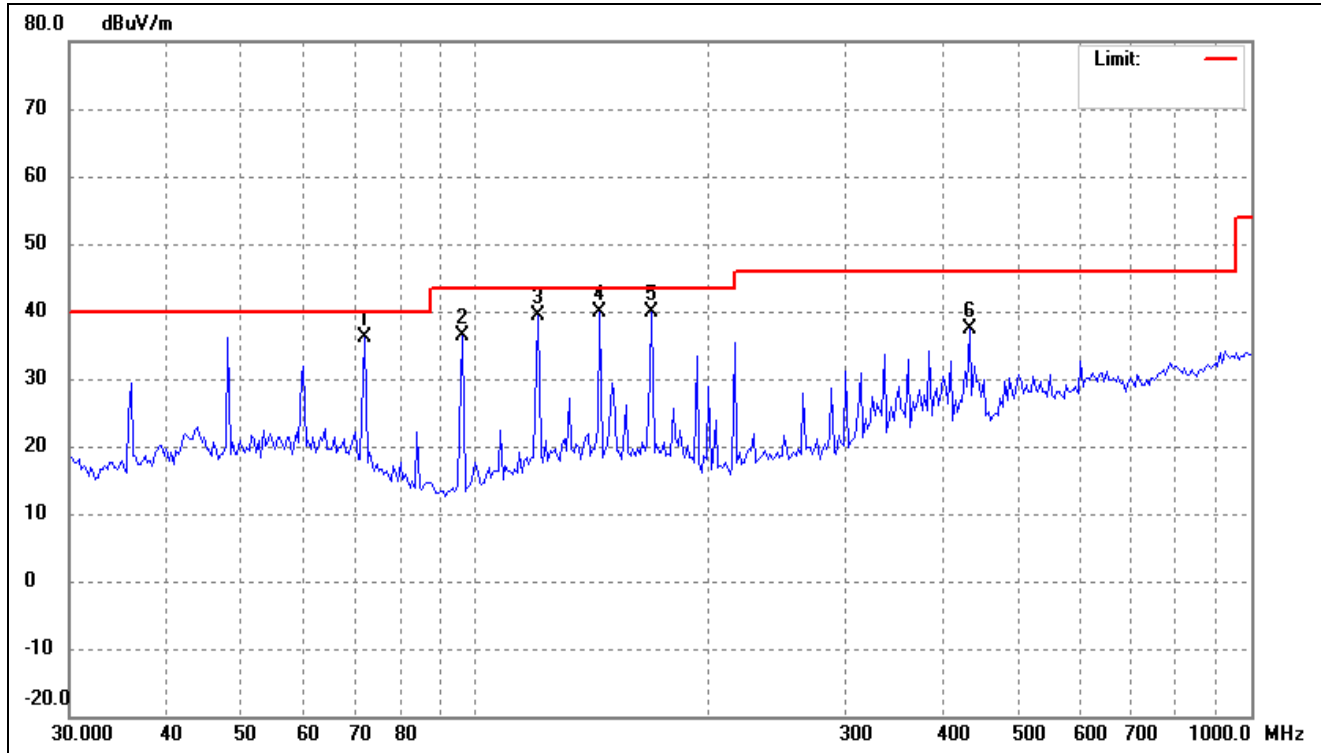
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	44.03	-8.29	35.74	40.00	-4.26	-	-	peak
2	72.2111	47.14	-10.80	36.34	40.00	-3.66	-	-	peak
3	120.6118	48.35	-10.23	38.12	43.50	-5.38	-	-	peak
4	144.7899	47.51	-8.74	38.77	43.50	-4.73	-	-	peak
5	168.9970	47.84	-8.61	39.23	43.50	-4.27	-	-	peak
6	216.1197	46.92	-11.88	35.04	46.00	-10.96	-	-	peak

802.11n-HT40			
Test Channel	5510MHz(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	72.2111	46.15	-10.80	35.35	40.00	-4.65	-	-	peak
2	120.6118	44.77	-10.23	34.54	43.50	-8.96	-	-	peak
3	216.1197	51.28	-11.88	39.40	46.00	-6.60	-	-	peak
4	240.1442	51.07	-10.32	40.75	46.00	-5.25	-	-	peak
5	300.6988	50.52	-8.26	42.26	46.00	-3.74	-	-	peak
6	350.9722	46.57	-7.35	39.22	46.00	-6.78	-	-	peak

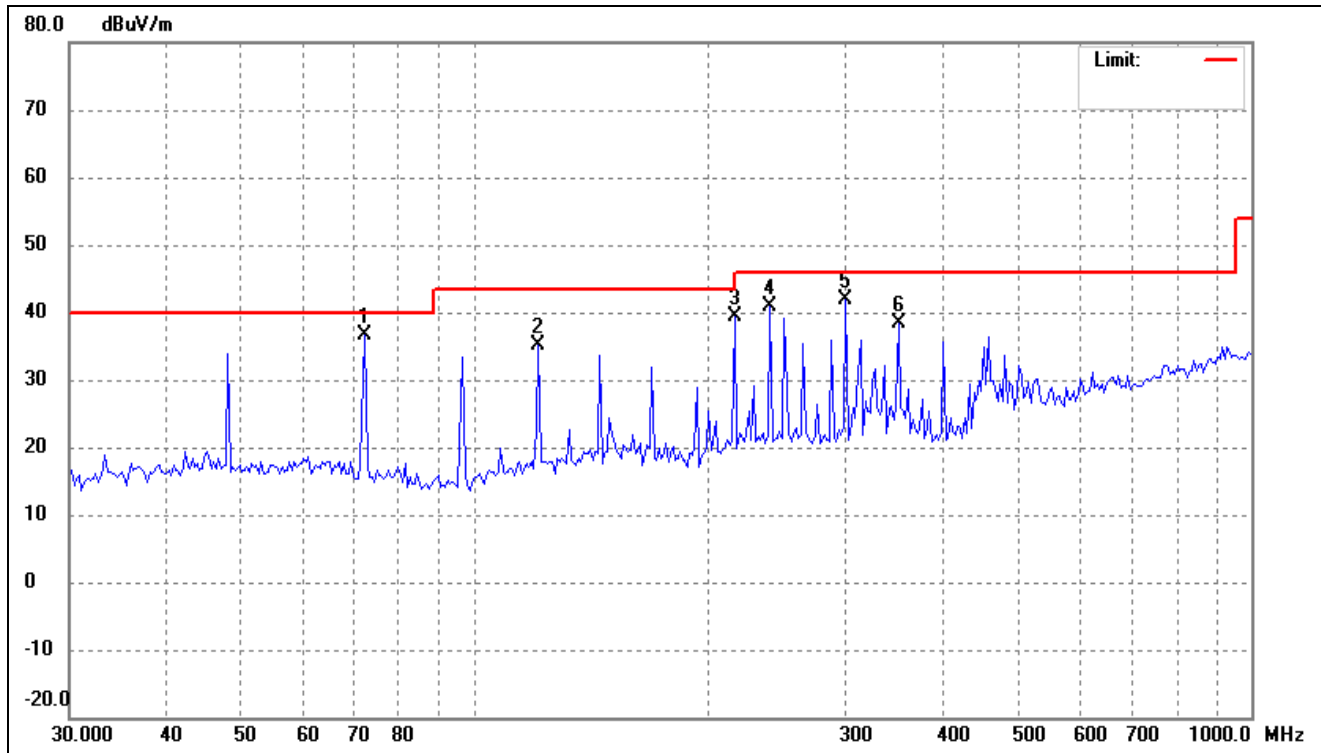
802.11n-HT40			
Test Channel	5510MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	72.2111	46.97	-10.80	36.17	40.00	-3.83	-	-	peak
2	96.3230	49.71	-13.36	36.35	43.50	-7.15	-	-	peak
3	120.6118	49.54	-10.23	39.31	43.50	-4.19	-	-	peak
4	144.7899	48.62	-8.74	39.88	43.50	-3.62	-	-	peak
5	168.9970	48.53	-8.61	39.92	43.50	-3.58	-	-	peak
6	433.3397	42.66	-5.34	37.32	46.00	-8.68	-	-	peak

➤ 5725-5850MHz

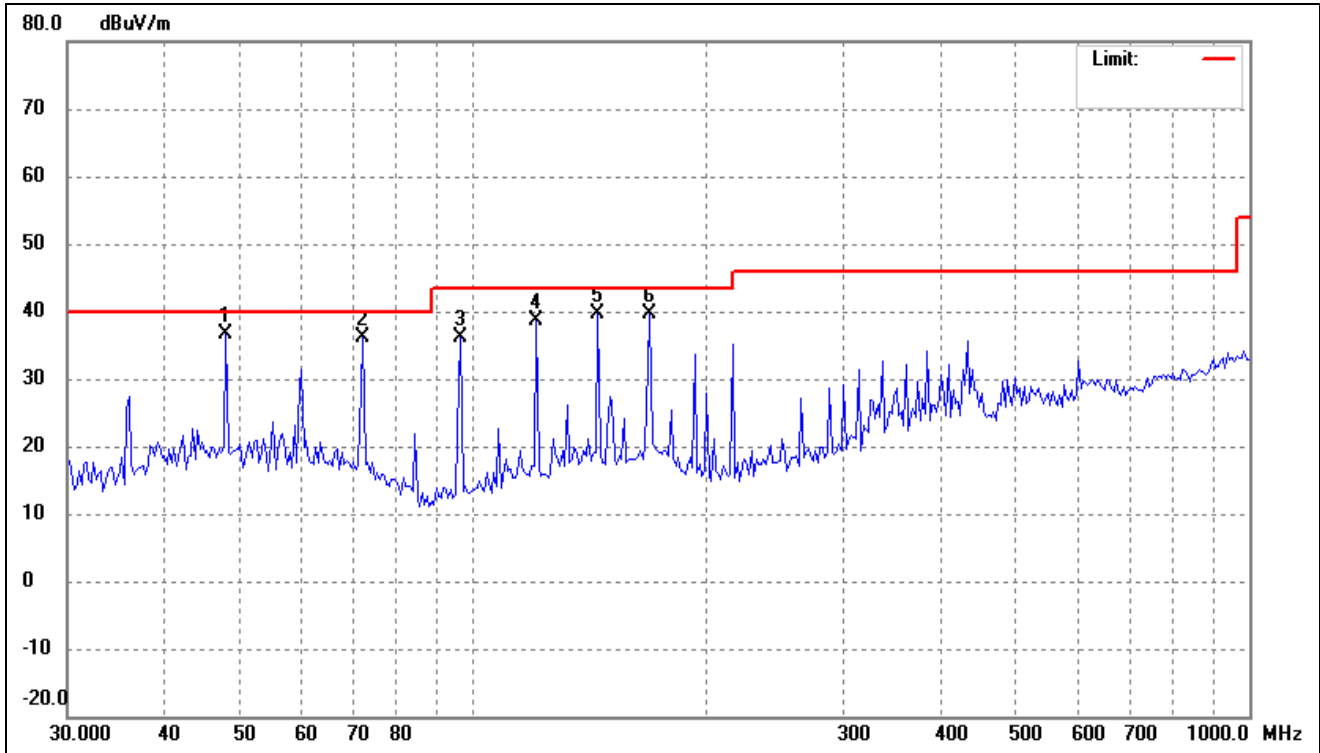
802.11a			
Test Channel	5745MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	72.2111	47.35	-10.80	36.55	40.00	-3.45	-	-	peak
2	120.6118	45.44	-10.23	35.21	43.50	-8.29	-	-	peak
3	216.1197	51.35	-11.88	39.47	46.00	-6.53	-	-	peak
4	240.1442	51.12	-10.32	40.80	46.00	-5.20	-	-	peak
5	300.6988	50.21	-8.26	41.95	46.00	-4.05	-	-	peak
6	350.9722	45.76	-7.35	38.41	46.00	-7.59	-	-	peak

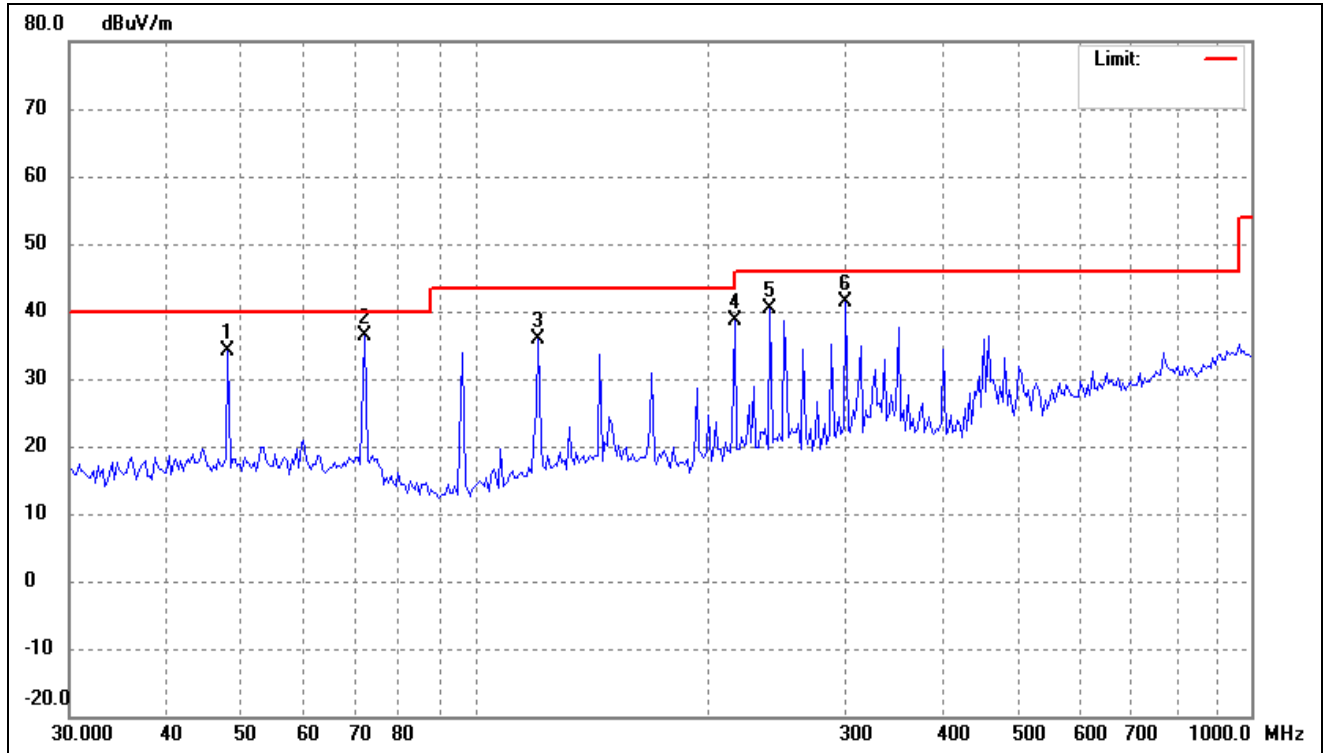
802.11a

Test Channel	5745MHz(worst case)	Polarity:	Vertical
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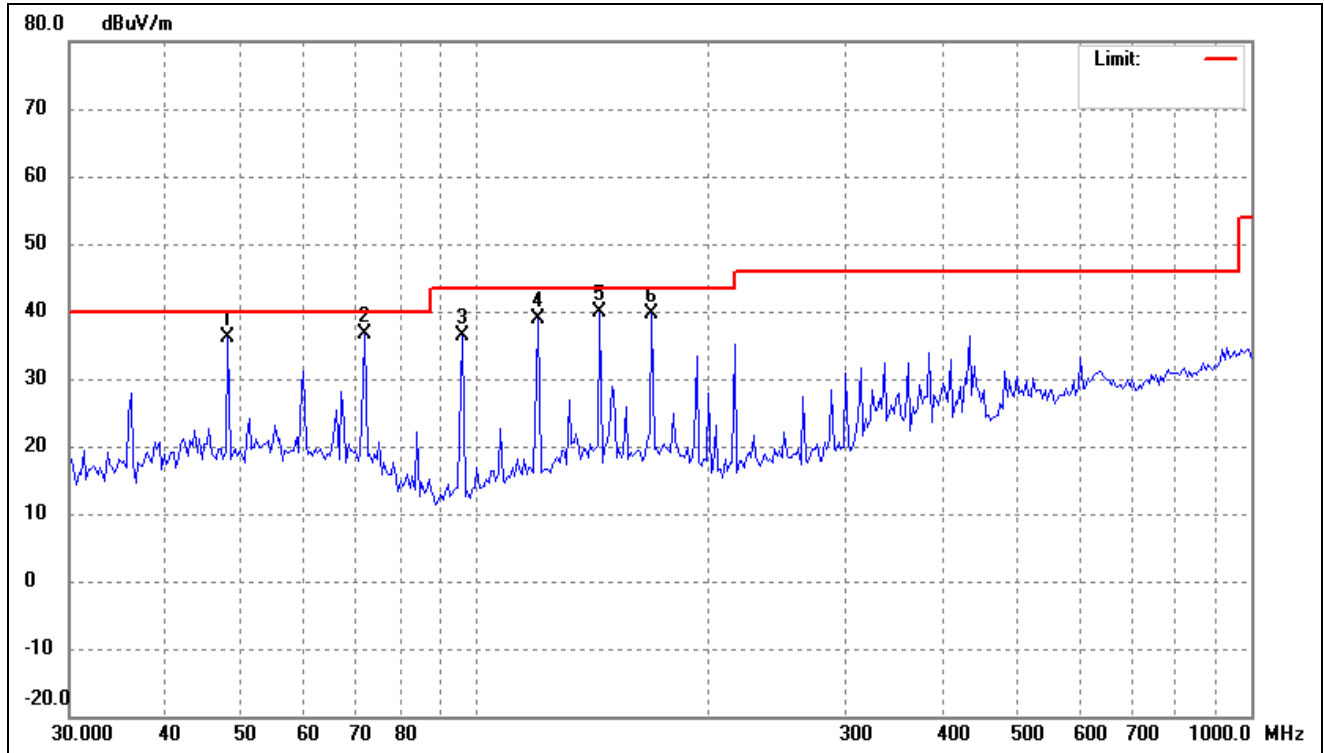
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	44.91	-8.29	36.62	40.00	-3.38	-	-	peak
2	72.2111	46.87	-10.80	36.07	40.00	-3.93	-	-	peak
3	96.3230	49.56	-13.36	36.20	43.50	-7.30	-	-	peak
4	120.6118	48.91	-10.23	38.68	43.50	-4.82	-	-	peak
5	144.7899	48.33	-8.74	39.59	43.50	-3.91	-	-	peak
6	168.9970	48.29	-8.61	39.68	43.50	-3.82	-	-	peak

802.11n-HT20			
Test Channel	5745MHz(worst case)	Polarity:	Horizontal



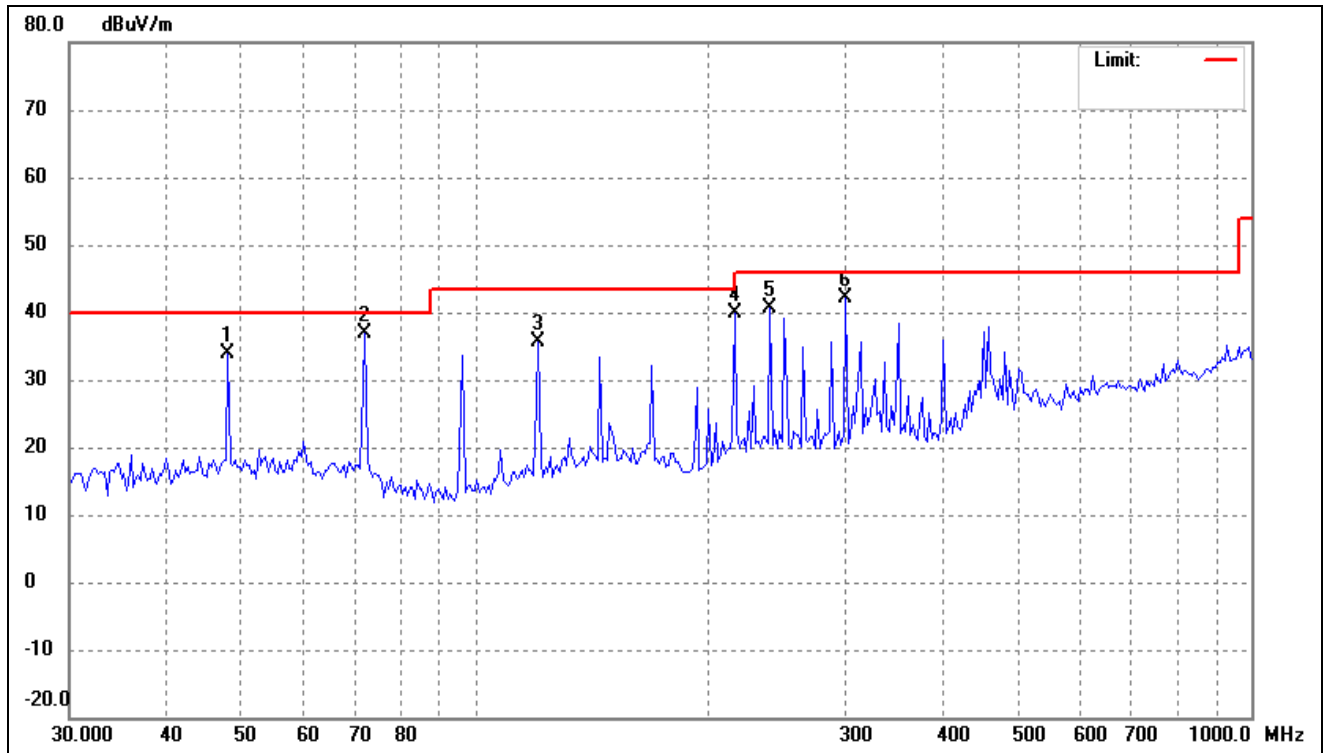
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	42.48	-8.29	34.19	40.00	-5.81	-	-	peak
2	72.2111	47.30	-10.80	36.50	40.00	-3.50	-	-	peak
3	120.6118	46.01	-10.23	35.78	43.50	-7.72	-	-	peak
4	216.1197	50.61	-11.88	38.73	46.00	-7.27	-	-	peak
5	240.1442	50.65	-10.32	40.33	46.00	-5.67	-	-	peak
6	300.6988	49.65	-8.26	41.39	46.00	-4.61	-	-	peak

802.11n-HT20			
Test Channel	5745MHz(worst case)	Polarity:	Vertical



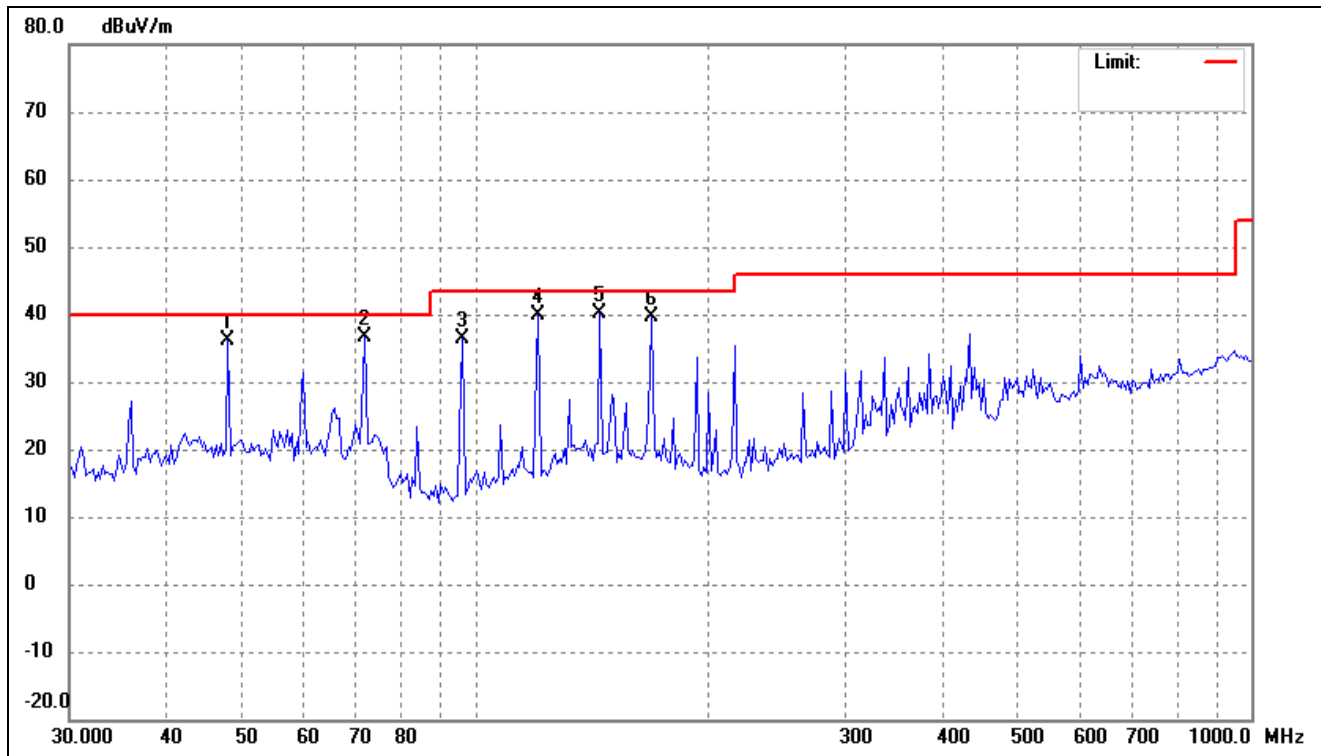
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	44.45	-8.29	36.16	40.00	-3.84	-	-	peak
2	72.2111	47.50	-10.80	36.70	40.00	-3.30	-	-	peak
3	96.3230	49.75	-13.36	36.39	43.50	-7.11	-	-	peak
4	120.6118	49.12	-10.23	38.89	43.50	-4.61	-	-	peak
5	144.7899	48.70	-8.74	39.96	43.50	-3.54	-	-	peak
6	168.9970	48.20	-8.61	39.59	43.50	-3.91	-	-	peak

802.11n-HT40			
Test Channel	5755MHz(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	48.0392	42.22	-8.29	33.93	40.00	-6.07	-	-	peak
2	72.2111	47.56	-10.80	36.76	40.00	-3.24	-	-	peak
3	120.6118	45.81	-10.23	35.58	43.50	-7.92	-	-	peak
4	216.1197	51.86	-11.88	39.98	46.00	-6.02	-	-	peak
5	240.1442	50.89	-10.32	40.57	46.00	-5.43	-	-	peak
6	300.6988	50.42	-8.26	42.16	46.00	-3.84	-	-	peak

802.11n-HT40			
Test Channel	5755MHz(worst case)	Polarity:	Vertical



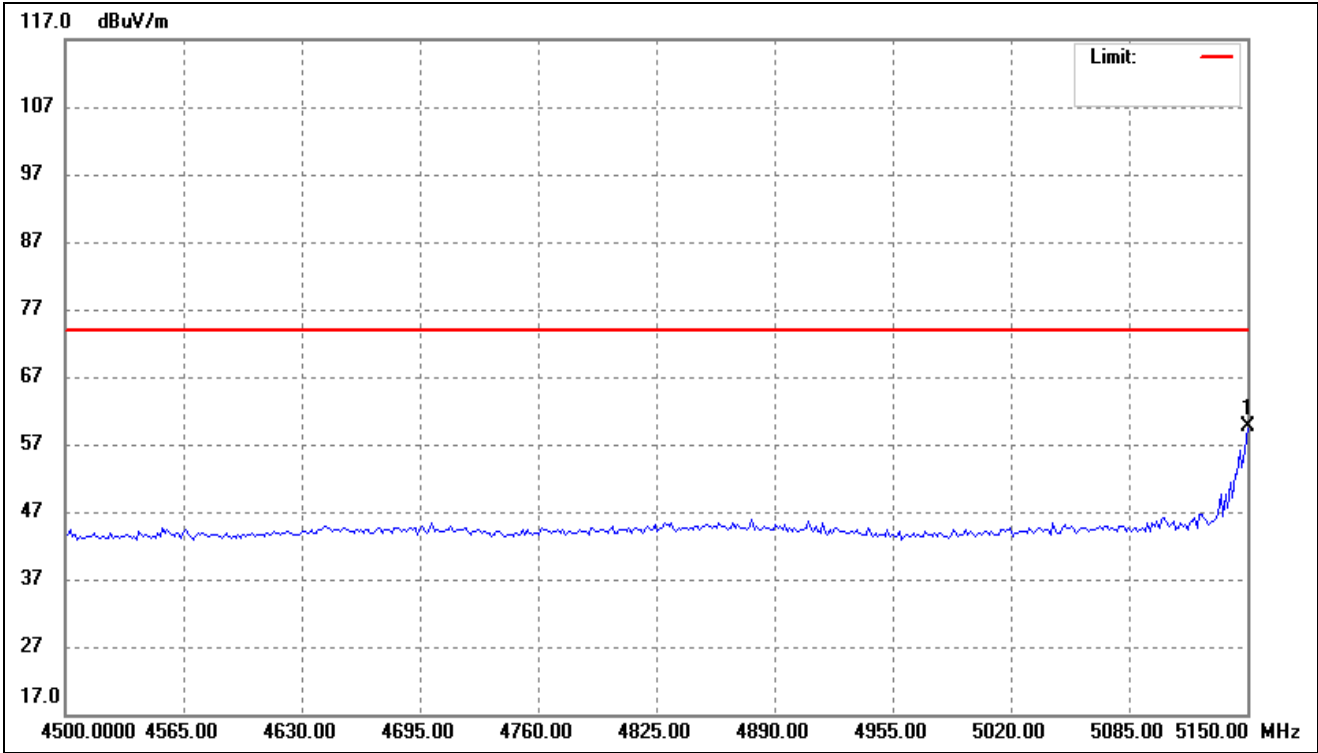
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	44.53	-8.29	36.24	40.00	-3.76	-	-	peak
2	72.2111	47.47	-10.80	36.67	40.00	-3.33	-	-	peak
3	96.3230	49.81	-13.36	36.45	43.50	-7.05	-	-	peak
4	120.6118	50.07	-10.23	39.84	43.50	-3.66	-	-	peak
5	144.7899	48.76	-8.74	40.02	43.50	-3.48	-	-	peak
6	168.9970	48.25	-8.61	39.64	43.50	-3.86	-	-	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

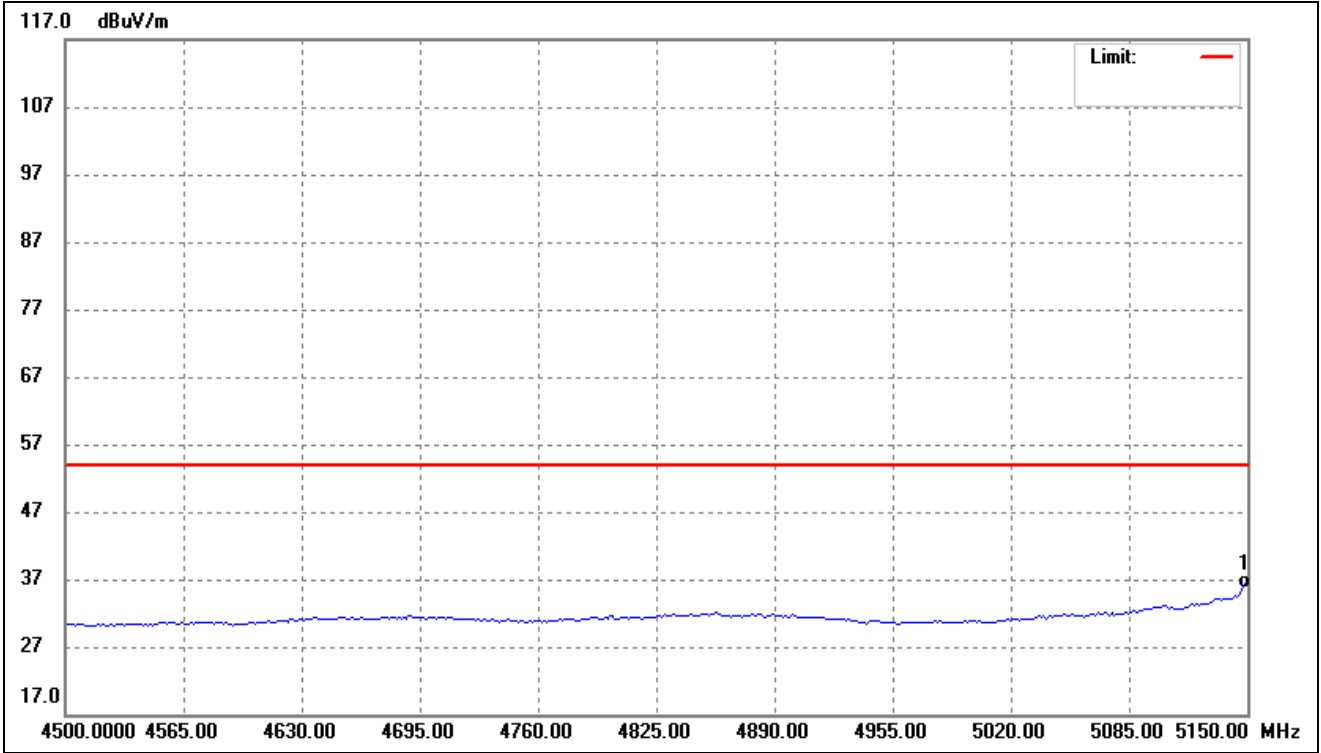
Band 1

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



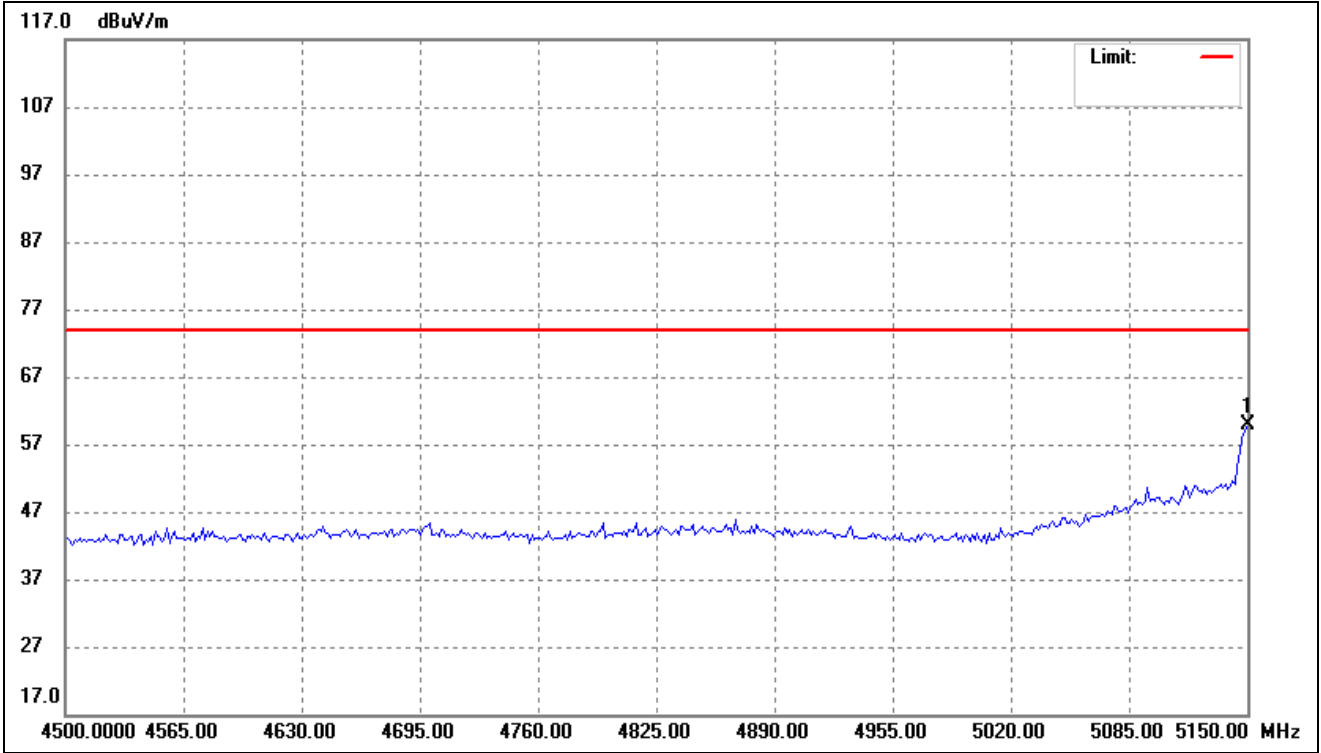
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	71.29	-11.59	59.70	74.00	-14.30	-	-	peak

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



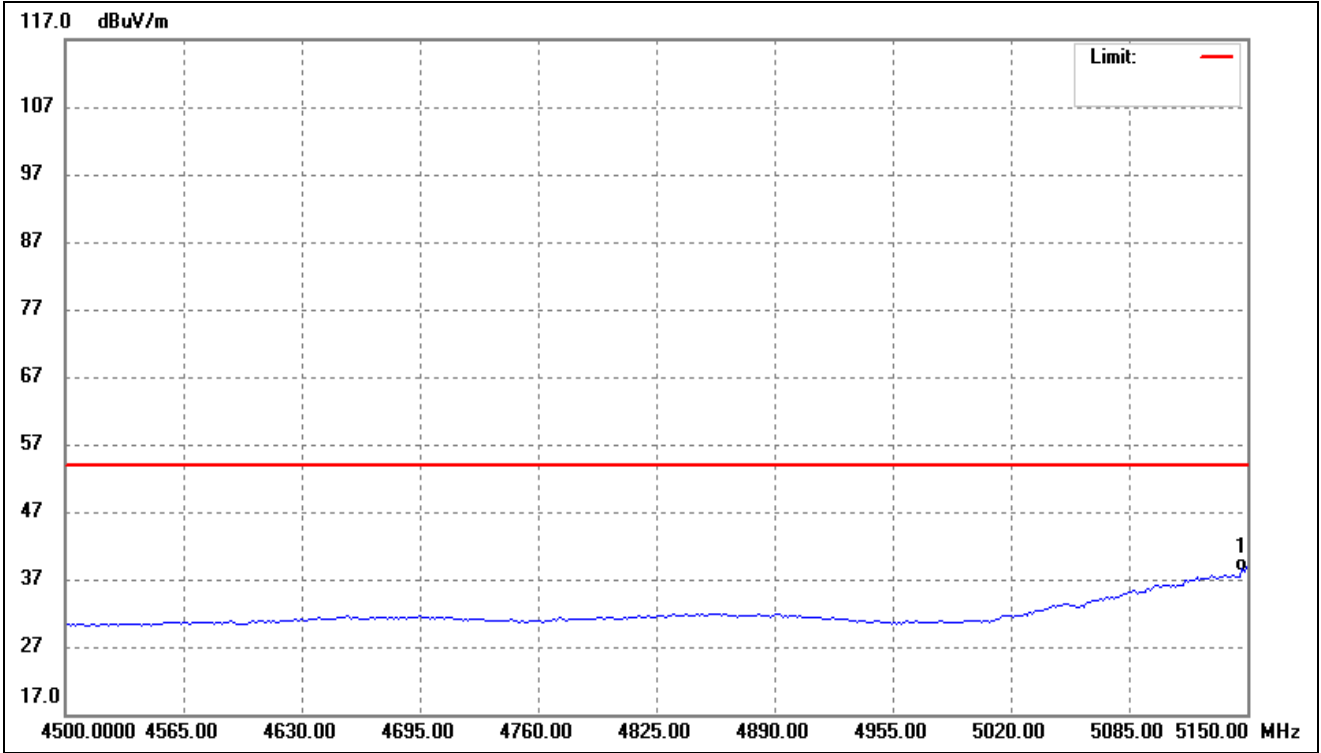
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	48.34	-11.59	36.75	54.00	-17.25	-	-	AVG

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



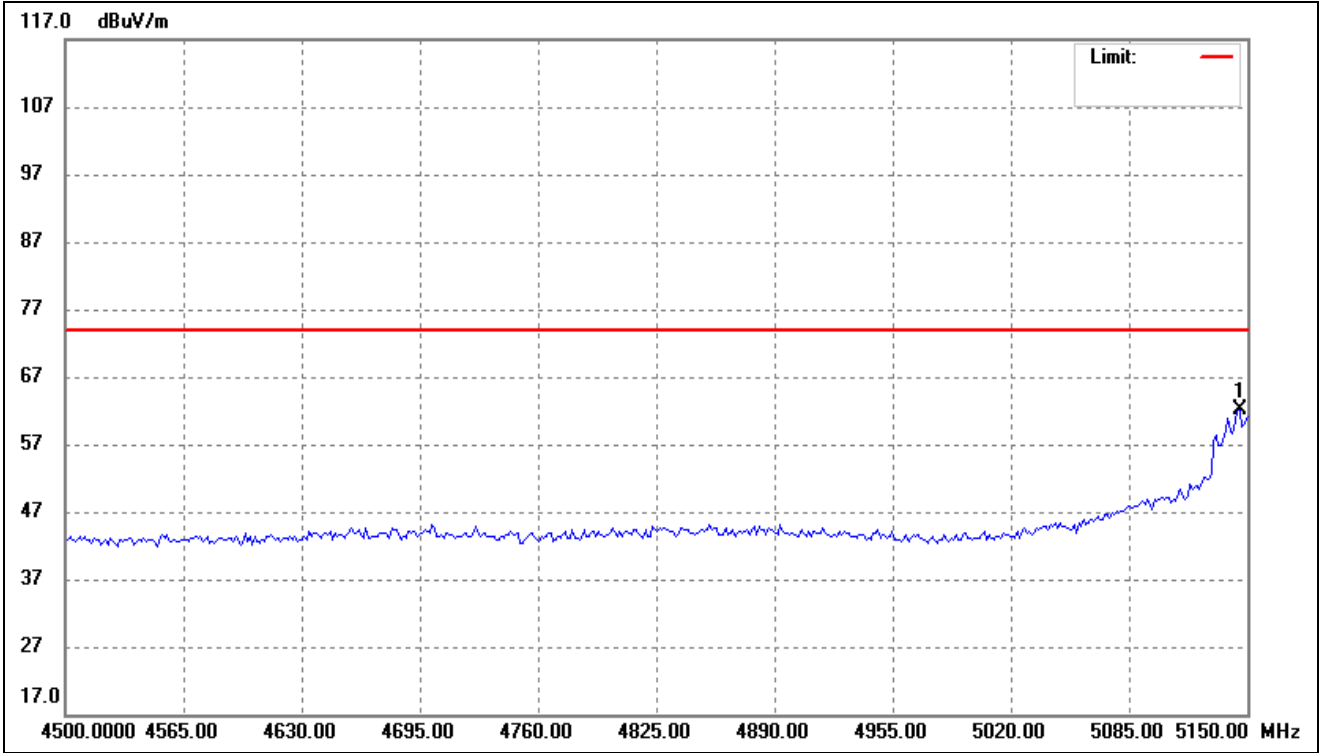
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	71.53	-11.59	59.94	74.00	-14.06	-	-	peak

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



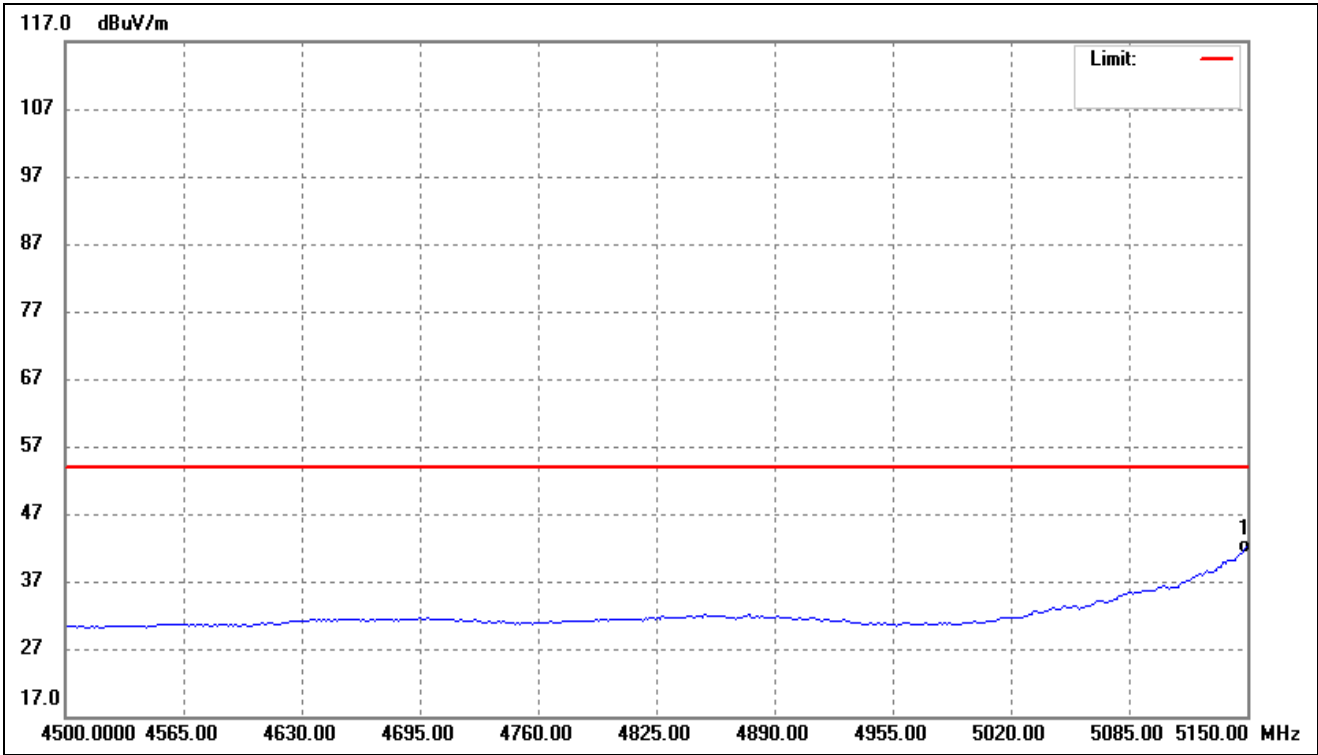
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	50.72	-11.59	39.13	54.00	-14.87	-	-	AVG

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	5146.092	73.76	-11.62	62.14	74.00	-11.86	-	-	peak

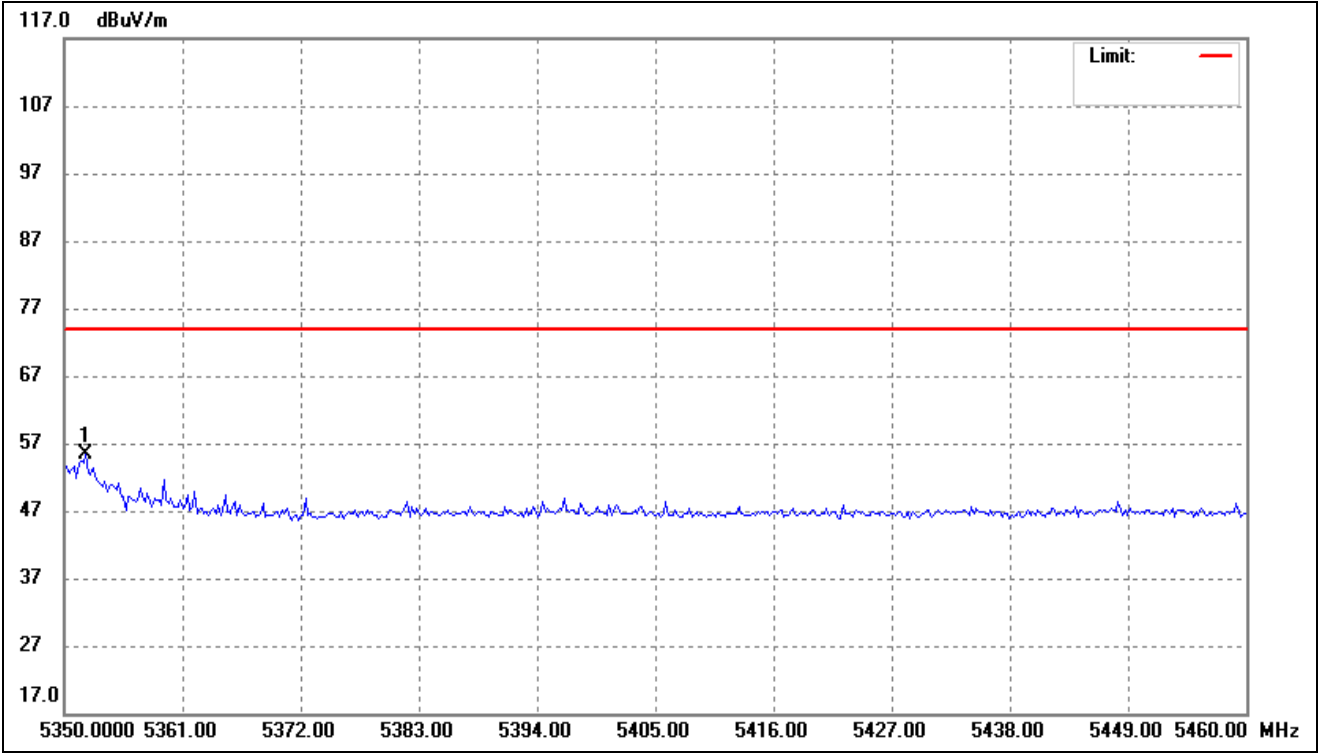
802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.15-5.25GHz	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	53.66	-11.59	42.07	54.00	-11.93	-	-	AVG

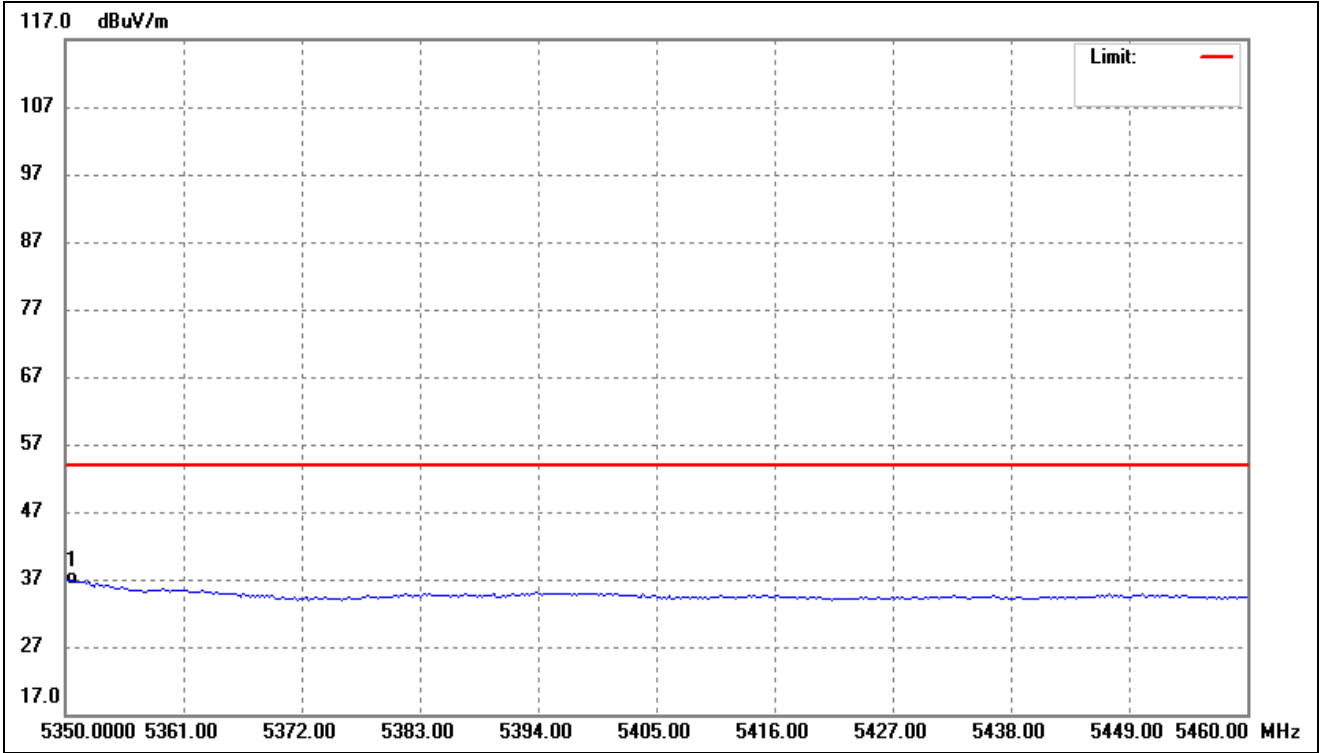
Band 2

802.11a- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



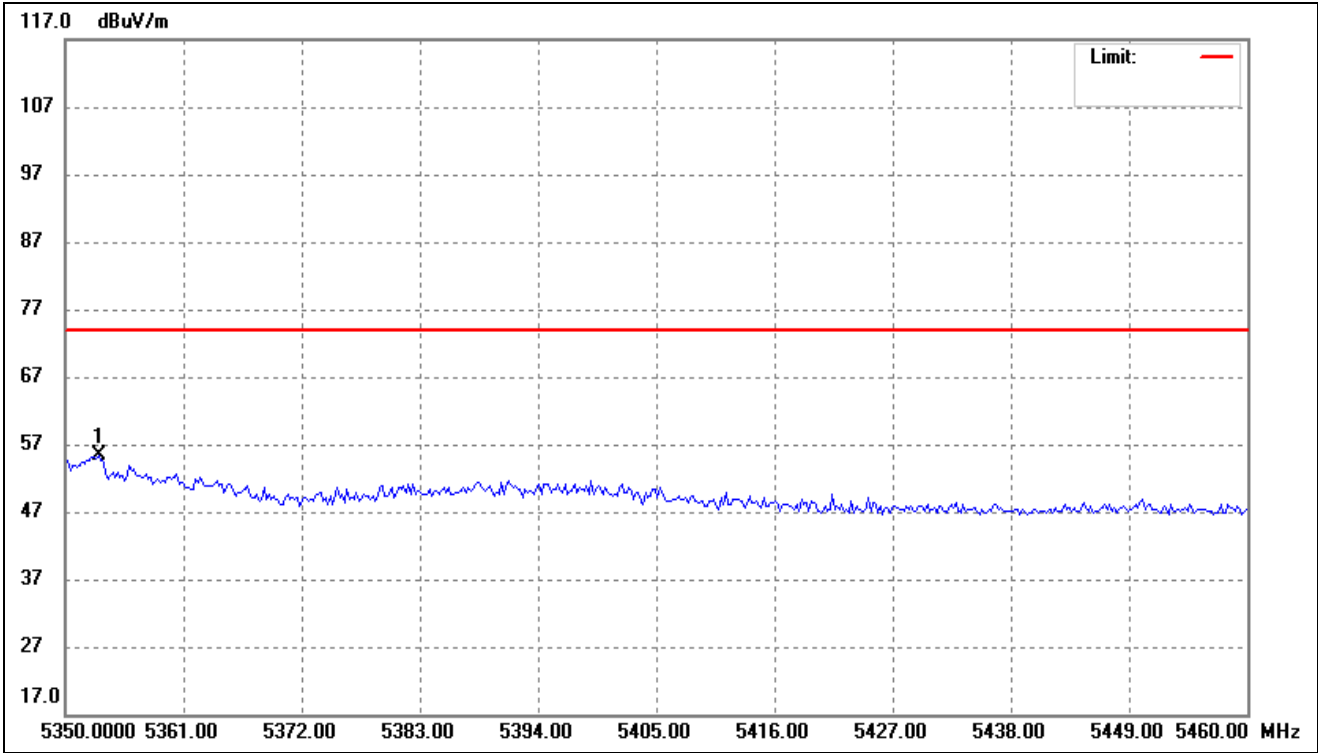
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5351.984	65.02	-9.76	55.26	74.00	-18.74	-	-	peak

802.11a- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



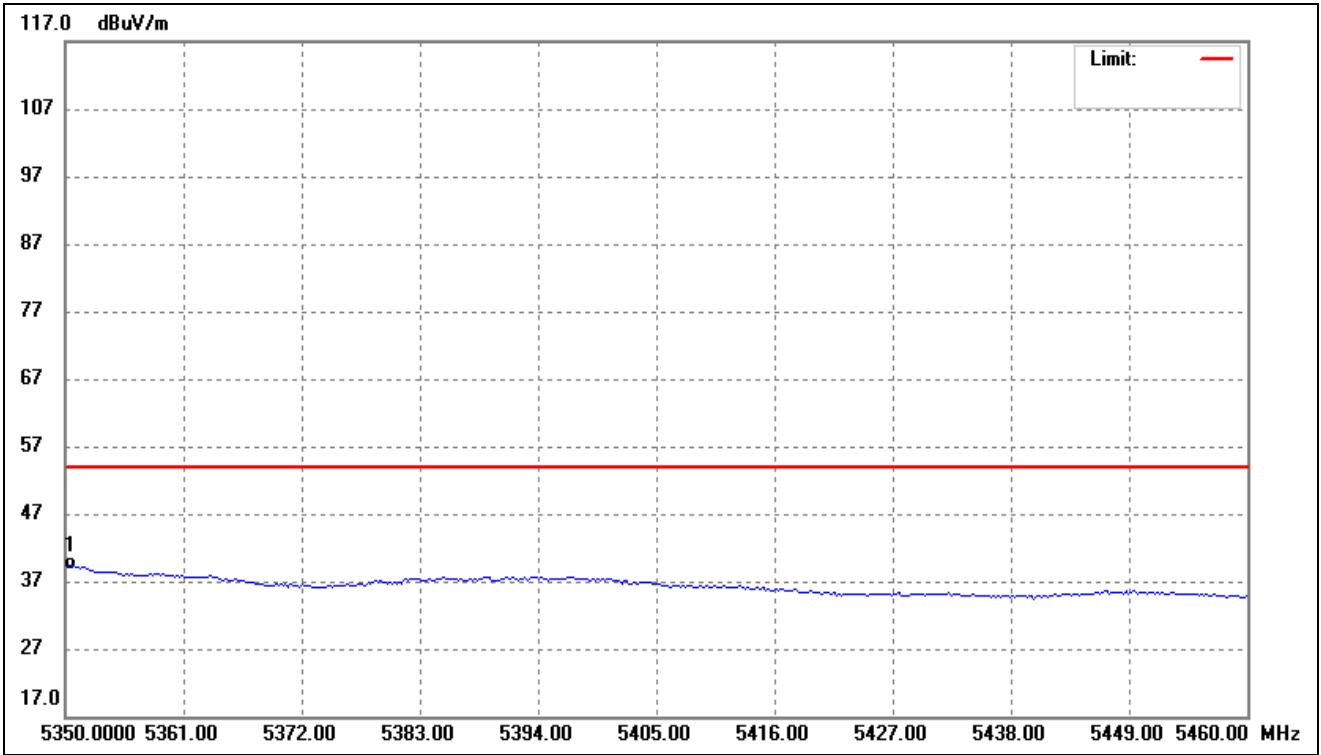
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5350.000	46.99	-9.75	37.24	54.00	-16.76	-	-	AVG

802.11n-HT20- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



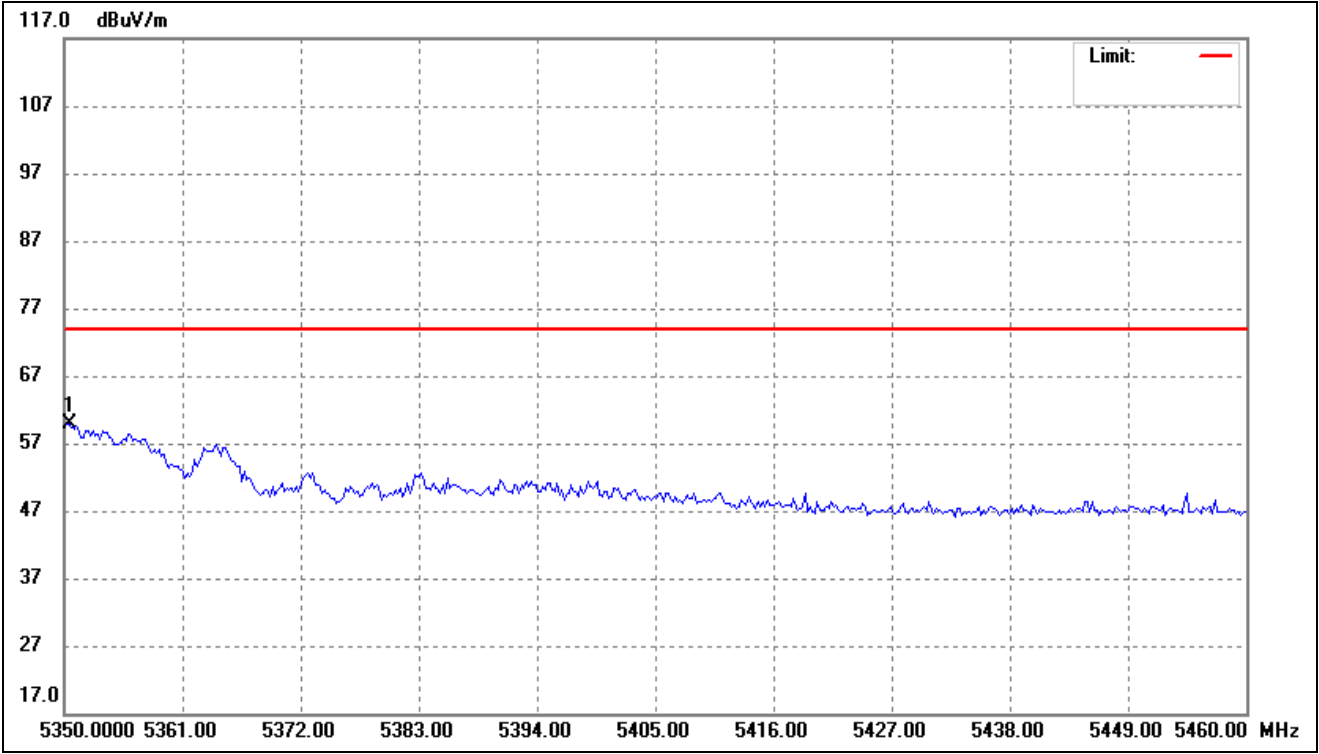
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5353.086	65.19	-9.76	55.43	74.00	-18.57	-	-	peak

802.11n-HT20- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



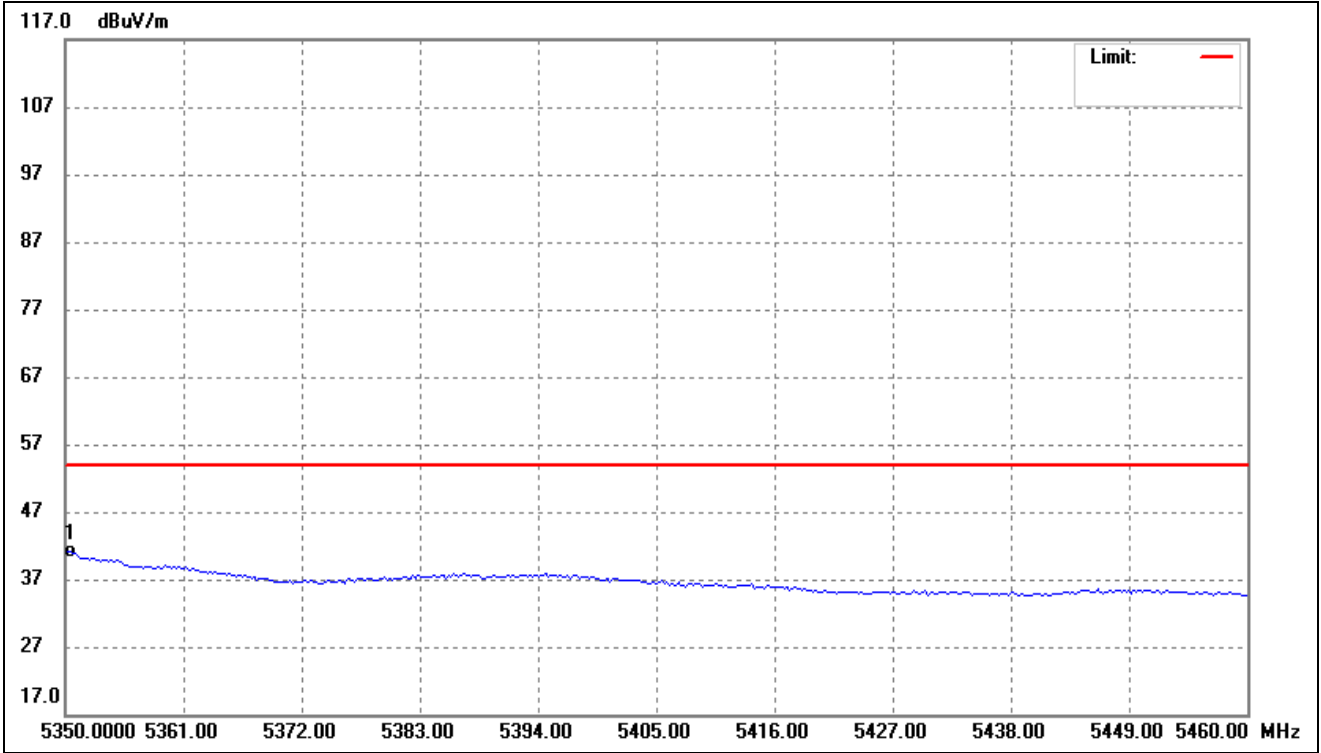
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5350.000	49.45	-9.75	39.70	54.00	-14.30	-	-	AVG

802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	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	5350.441	69.56	-9.75	59.81	74.00	-14.19	-	-	peak

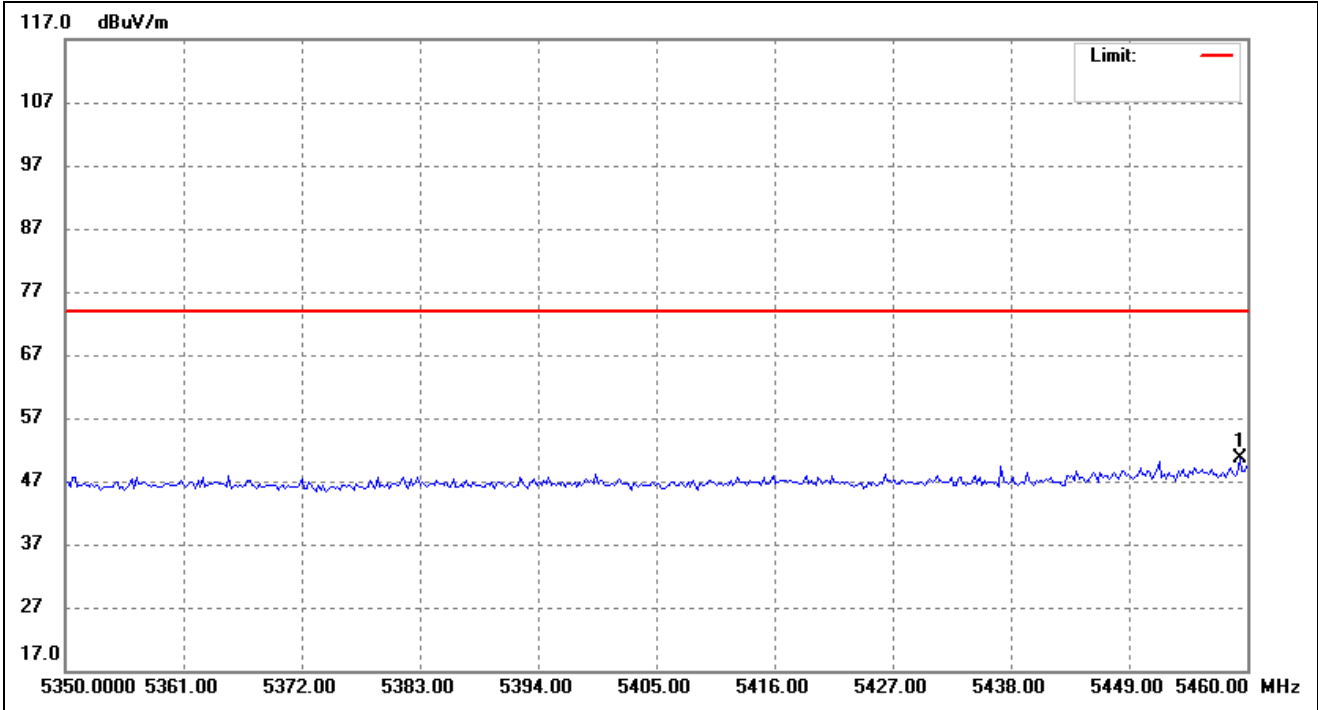
802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5350.000	50.87	-9.75	41.12	54.00	-12.88	-	-	AVG

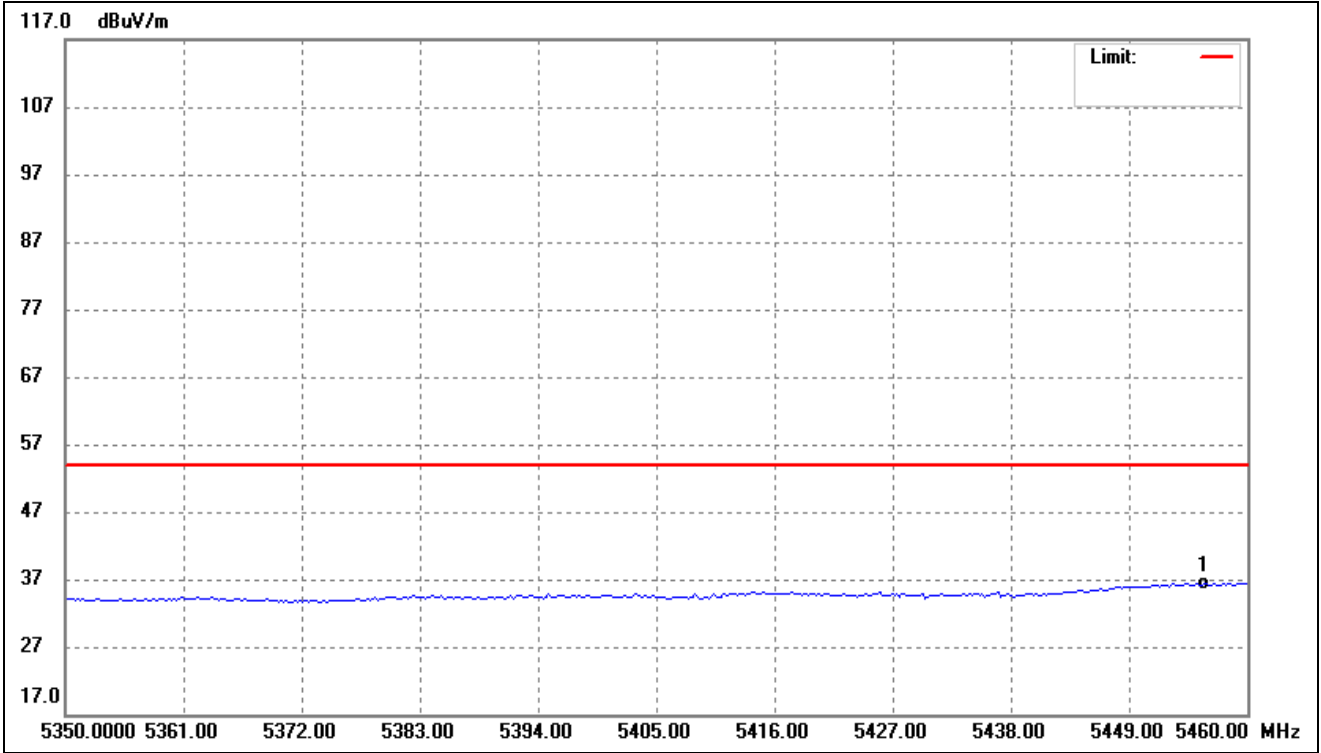
Band 3

802.11a- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



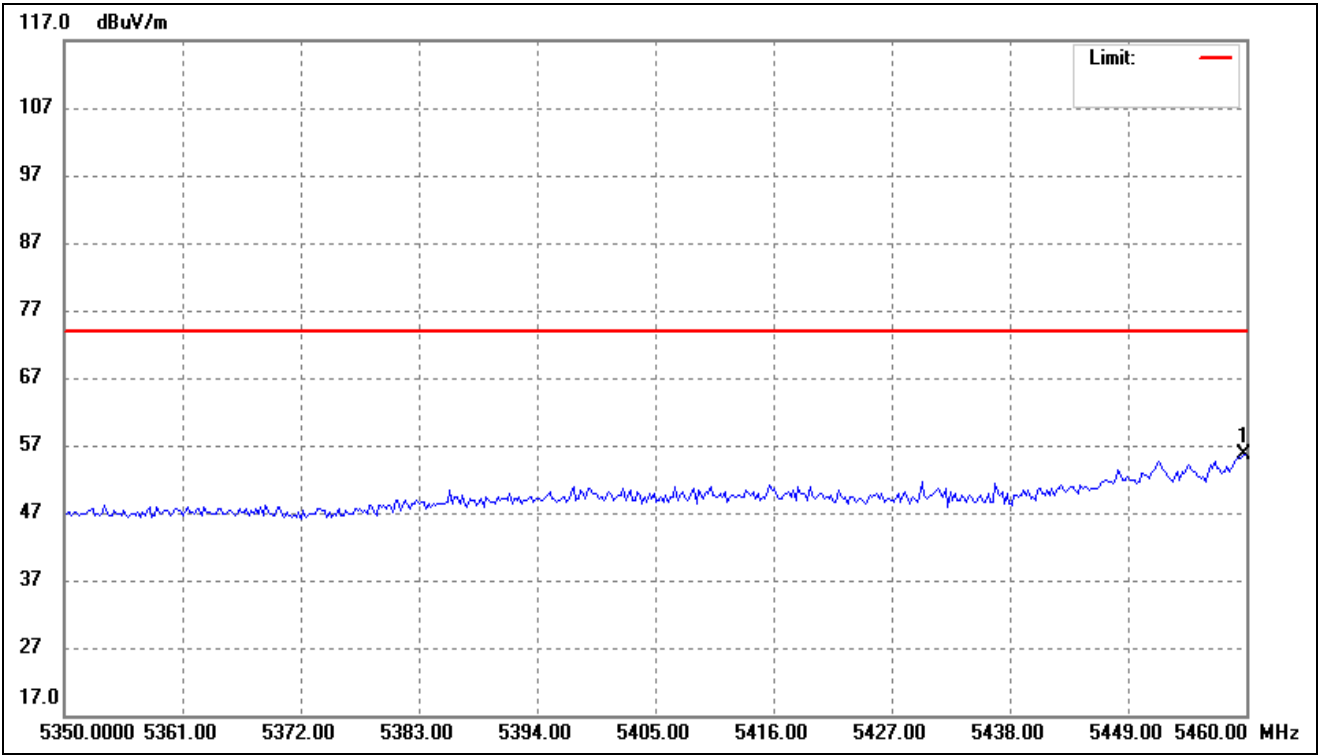
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	5459.339	60.08	-9.54	50.54	74.00	-23.46	-	-	peak

802.11a- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



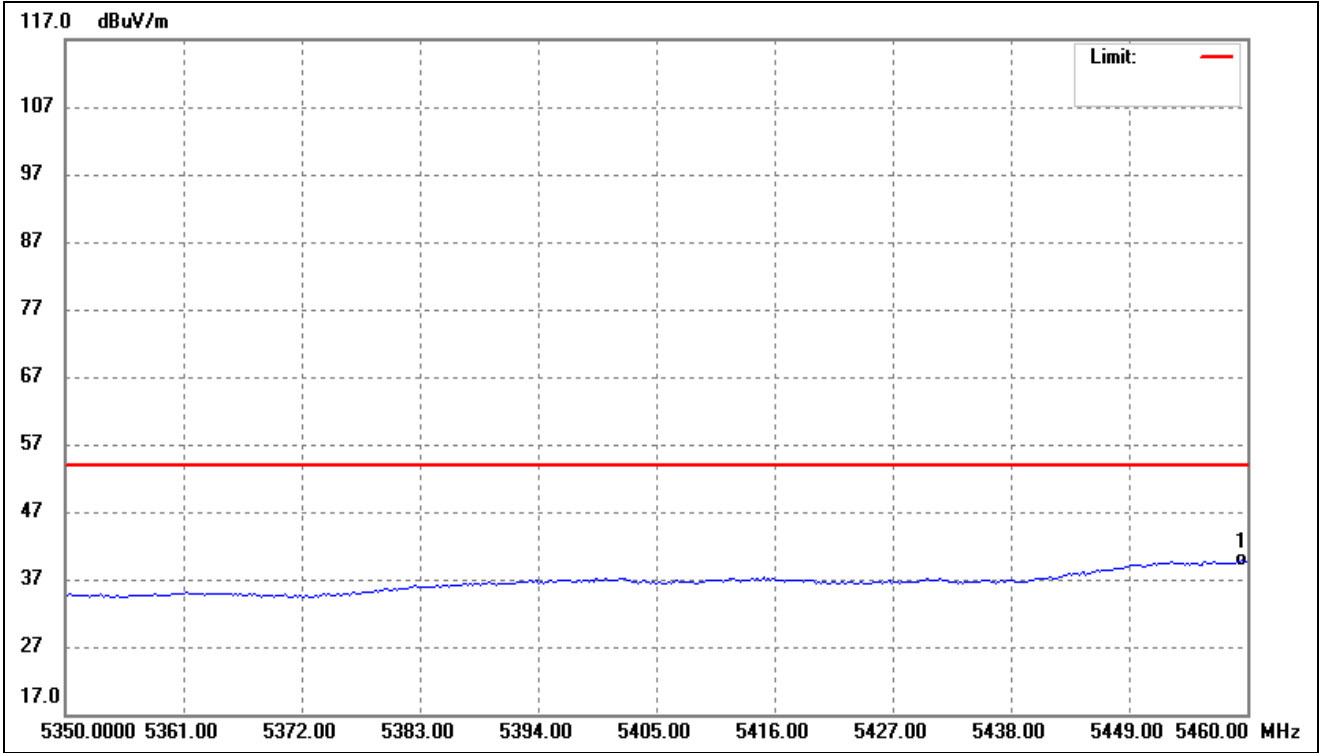
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5456.032	45.96	-9.53	36.43	54.00	-17.57	-	-	AVG

802.11n-HT20- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



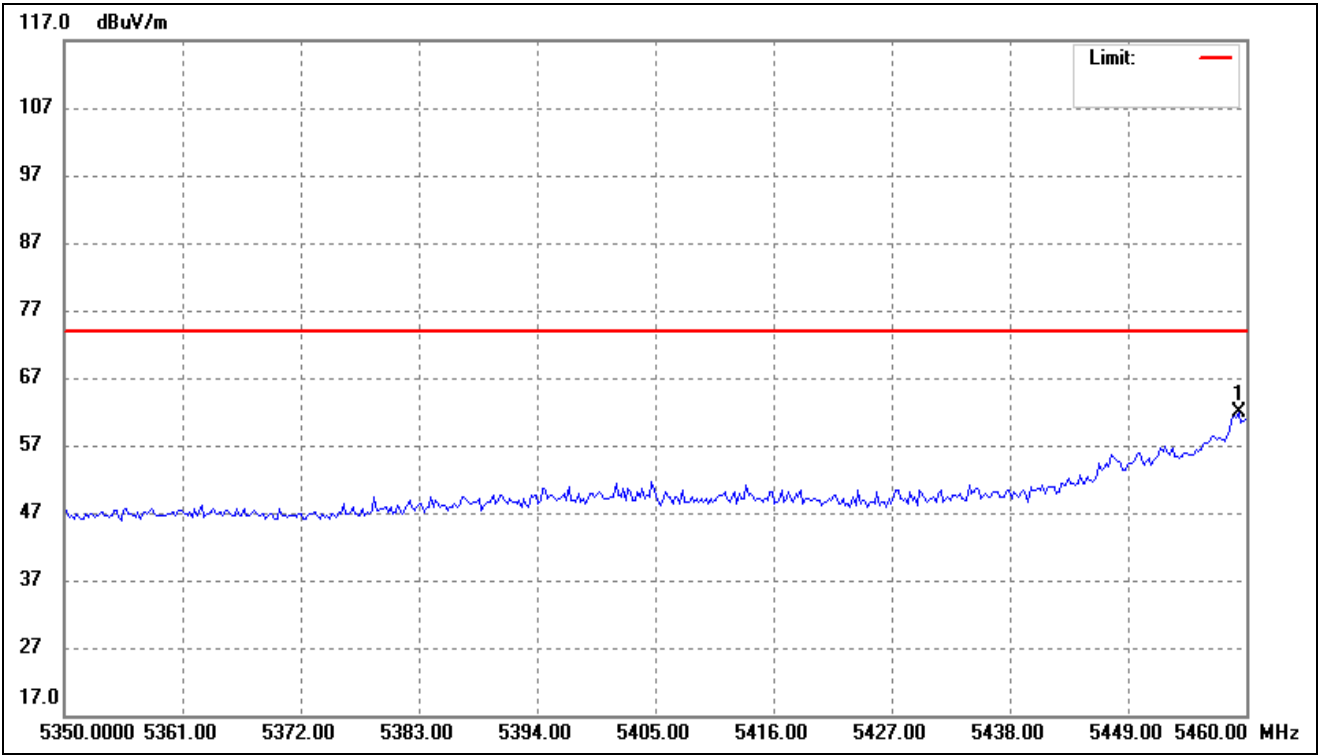
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5459.780	65.27	-9.54	55.73	74.00	-18.27	-	-	peak

802.11n-HT20- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



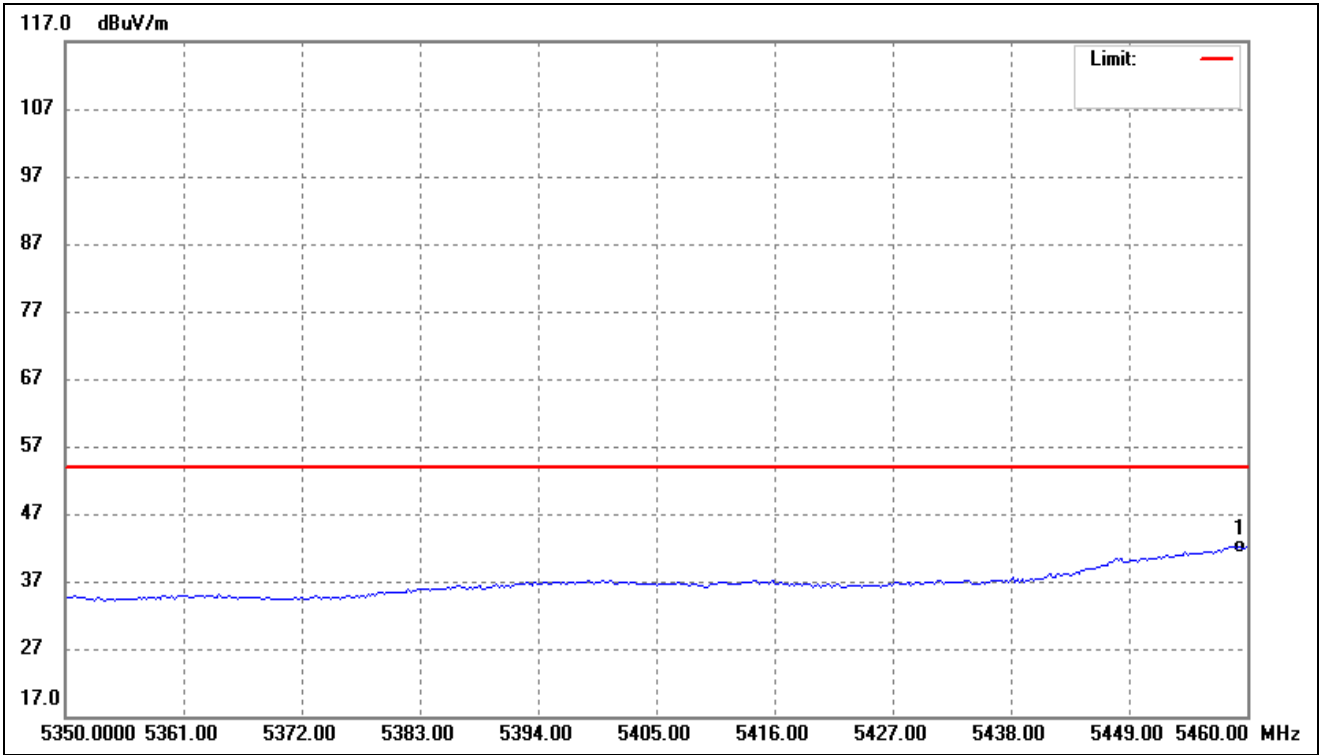
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5459.559	49.44	-9.54	39.90	54.00	-14.10	-	-	AVG

802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	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	5459.339	71.49	-9.54	61.95	74.00	-12.05	-	-	peak

802.11n-HT40- Restricted Bandedge			
Test Channel	band 5.35-5.47GHz	Polarity:	Horizontal(worst case)



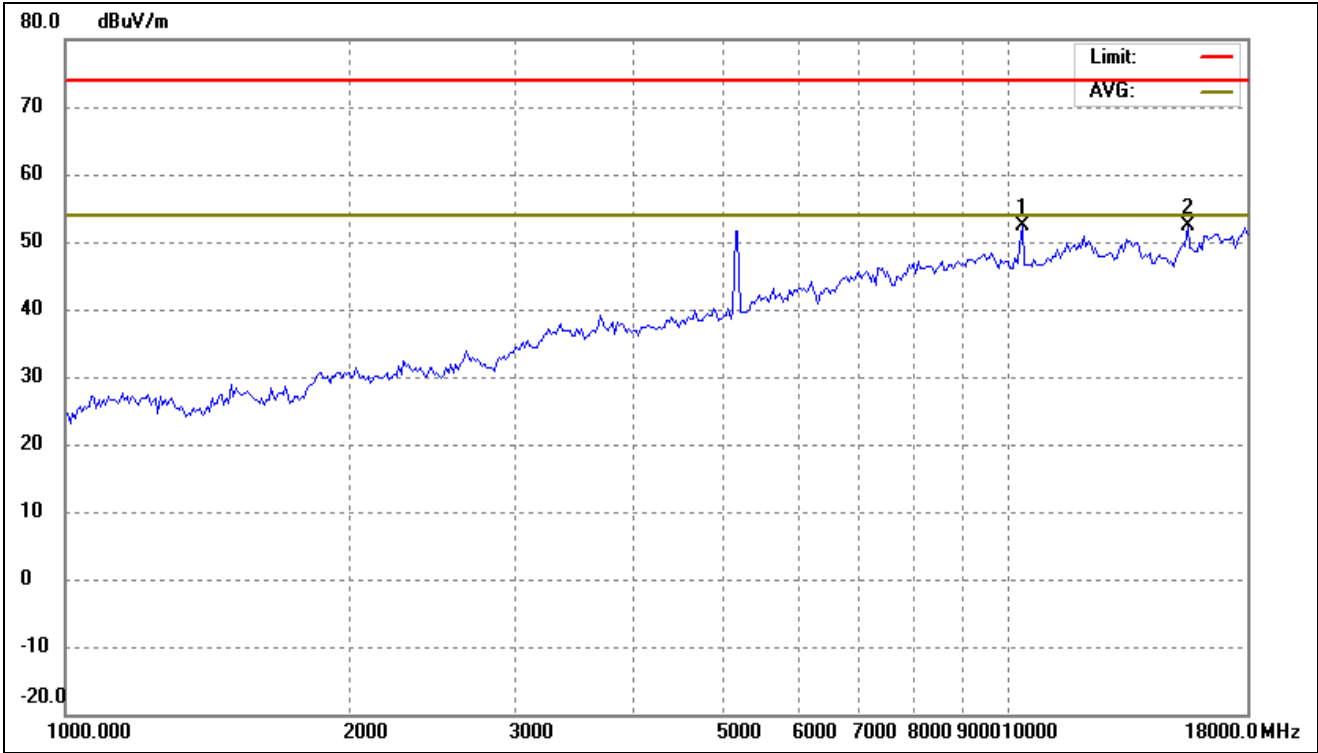
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5459.339	51.70	-9.54	42.16	54.00	-11.84	-	-	AVG

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.

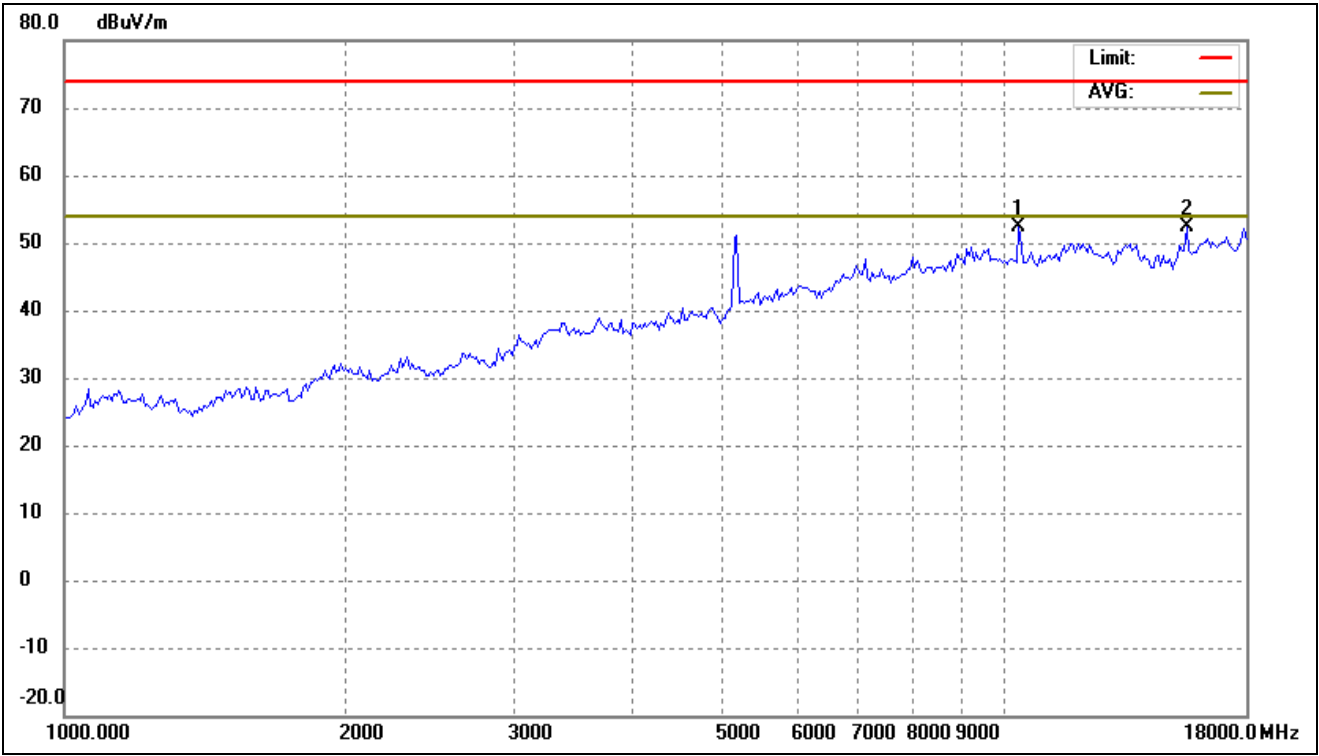
- Harmonics And Spurious Emissions
- 5150-5250MHz

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



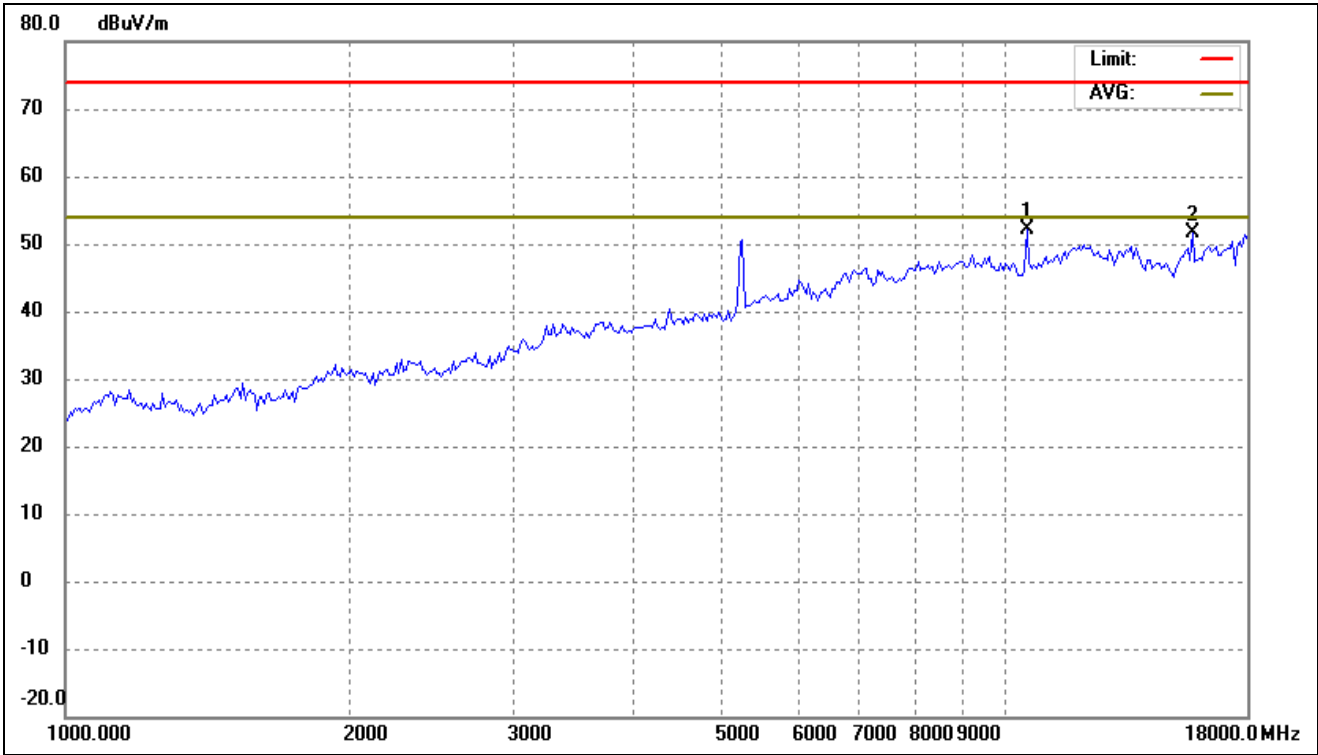
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	10360.000	55.75	-3.44	52.31	74.00	-21.69	-	-	peak
2	15540.000	51.81	0.60	52.41	74.00	-21.59	-	-	peak

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



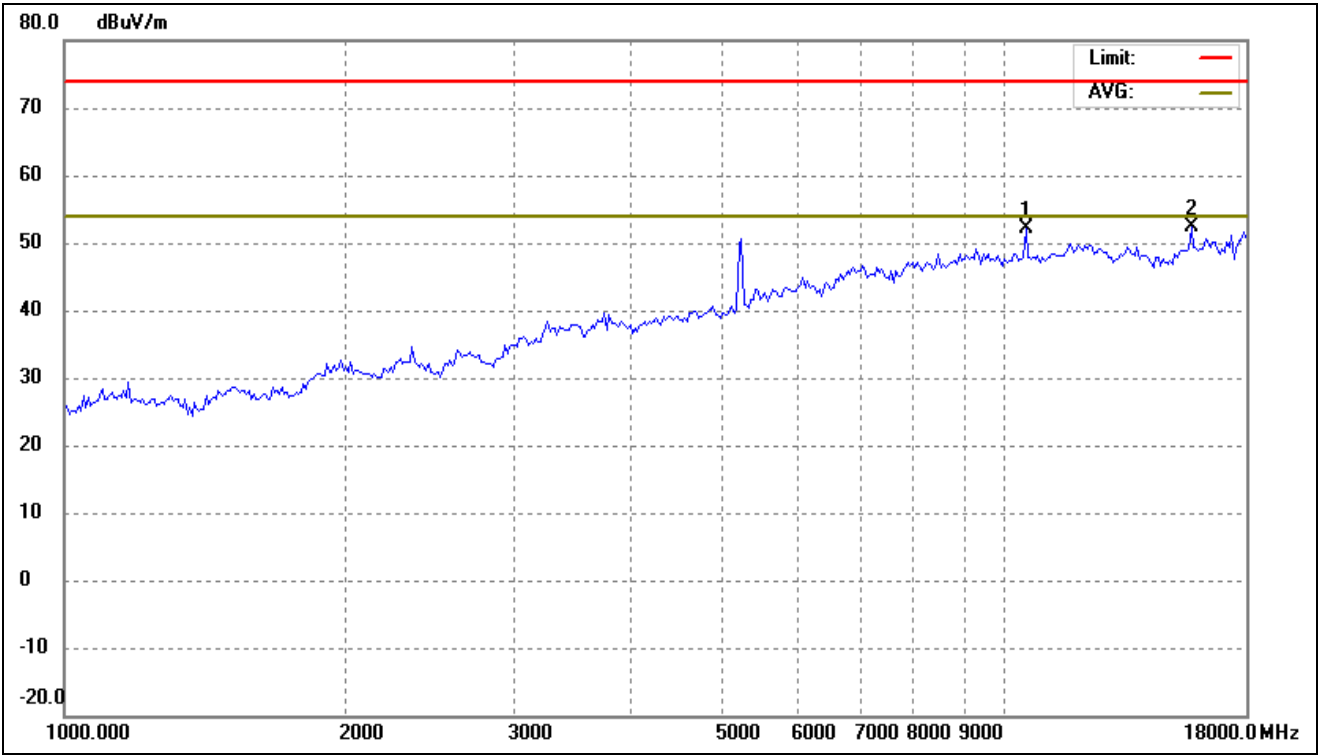
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	10322.317	55.87	-3.38	52.49	74.00	-21.51	-	-	peak
2	15540.000	51.89	0.60	52.49	74.00	-21.51	-	-	peak

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	10480.000	55.28	-3.16	52.12	74.00	-21.88	-	-	peak
2	15720.000	51.18	0.56	51.74	74.00	-22.26	-	-	peak

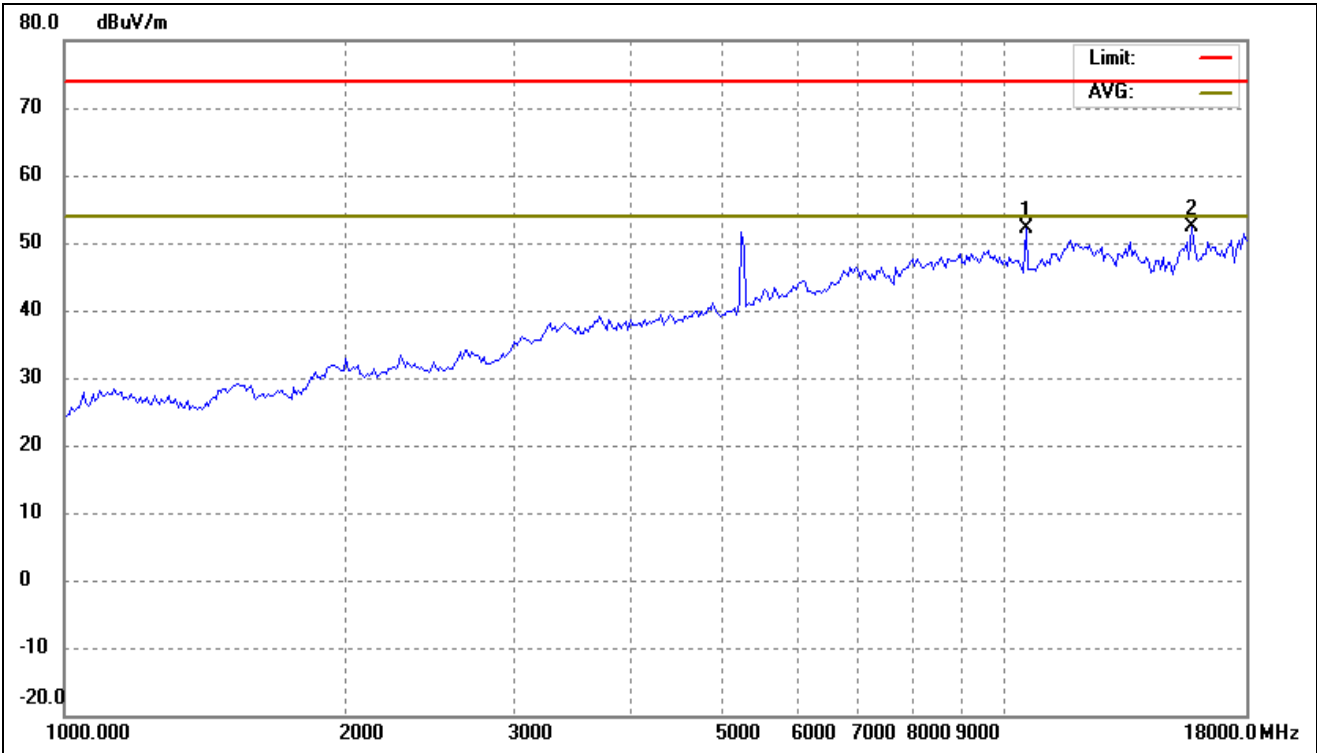
802.11a(worst case)			
Test Channel	5240MHz	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	10480.000	55.29	-3.16	52.13	74.00	-21.87	-	-	peak
2	15720.000	51.80	0.56	52.36	74.00	-21.64	-	-	peak

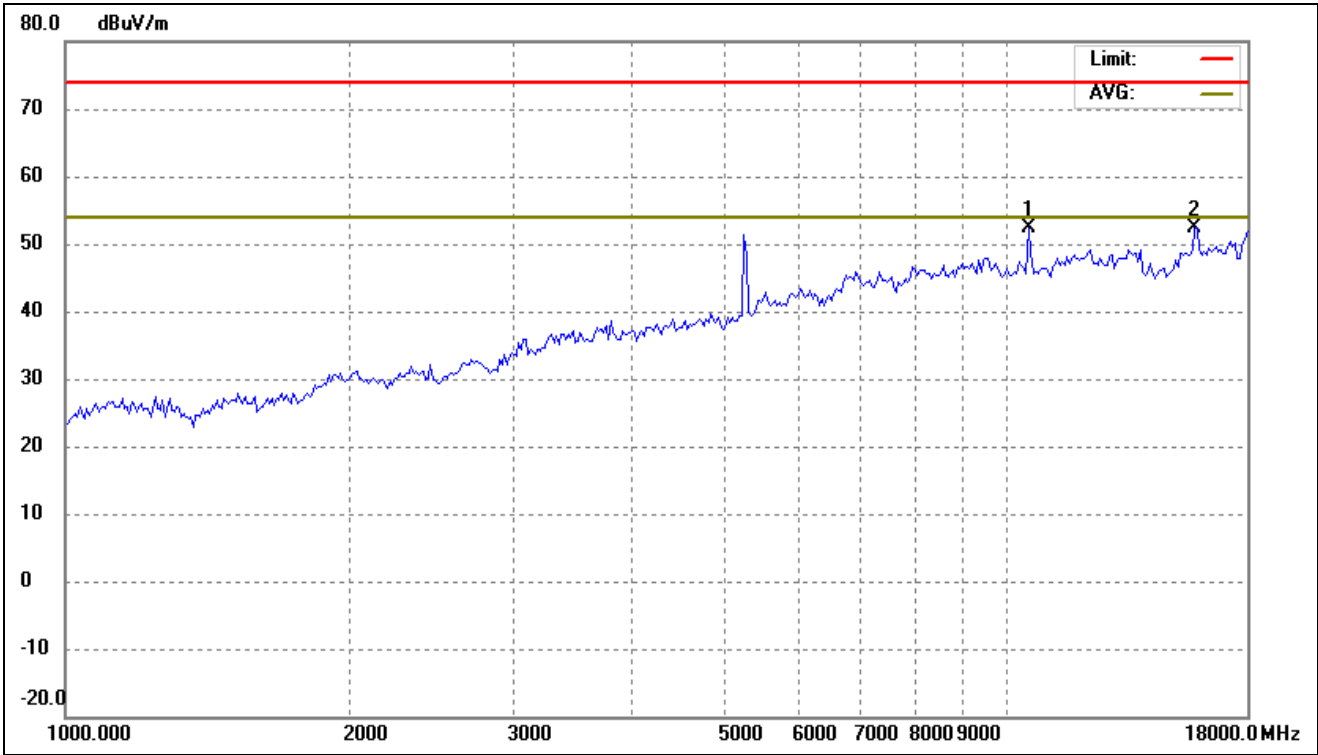
➤ 5250-5350MHz

802.11a(worst case)			
Test Channel	5260MHz	Polarity:	Horizontal



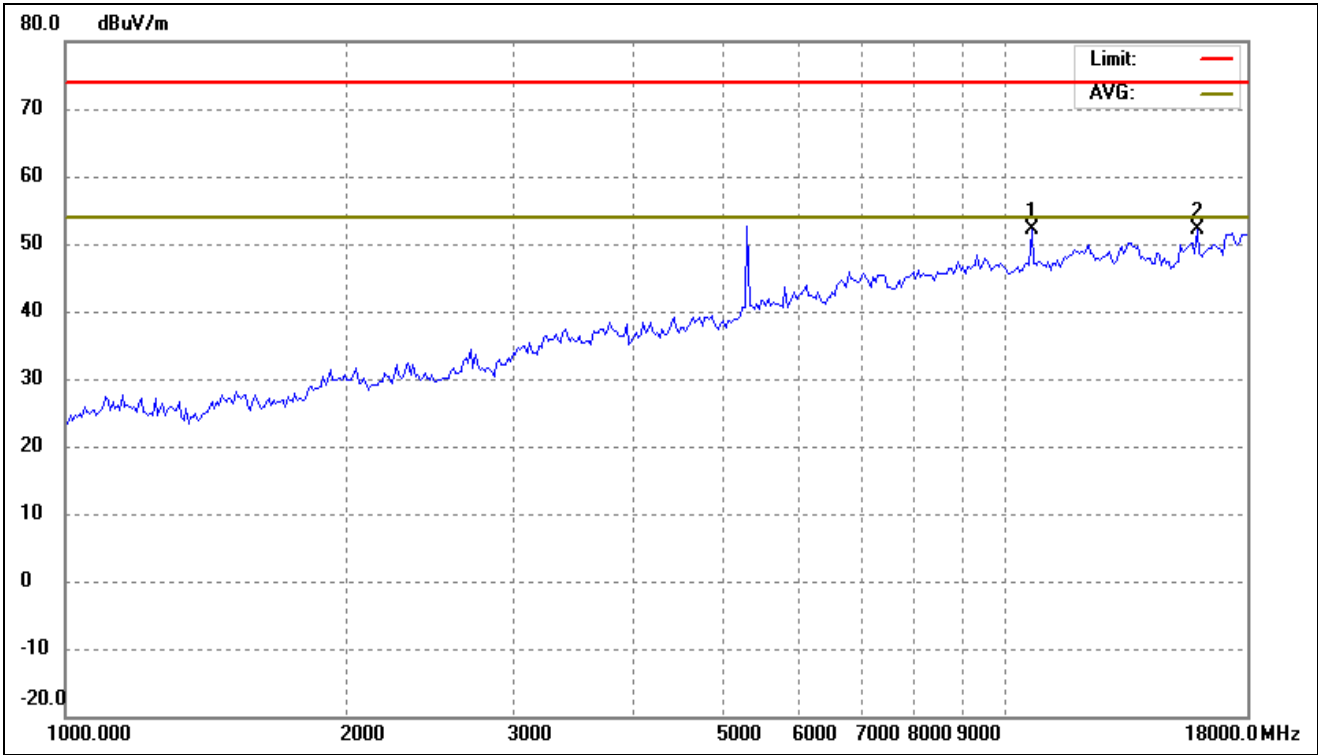
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	10503.255	55.20	-3.08	52.12	74.00	-21.88	-	-	peak
2	15754.849	51.85	0.47	52.32	74.00	-21.68	-	-	peak

802.11a(worst case)			
Test Channel	5260MHz	Polarity:	Vertical



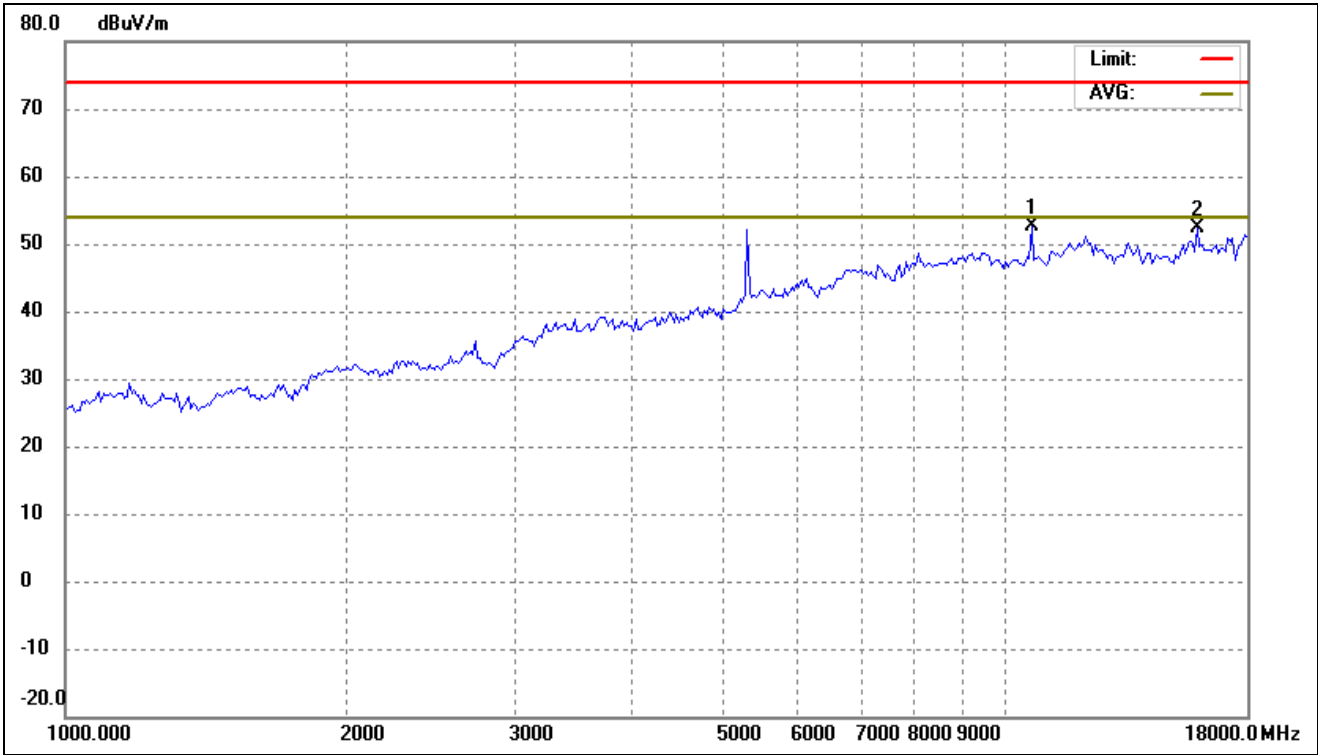
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	10520.000	55.54	-3.15	52.39	74.00	-21.61	-	-	peak
2	15780.000	51.97	0.39	52.36	74.00	-21.64	-	-	peak

802.11a(worst case)			
Test Channel	5320MHz	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	10625.639	55.50	-3.39	52.11	74.00	-21.89	-	-	peak
2	15938.425	51.57	0.52	52.09	74.00	-21.91	-	-	peak

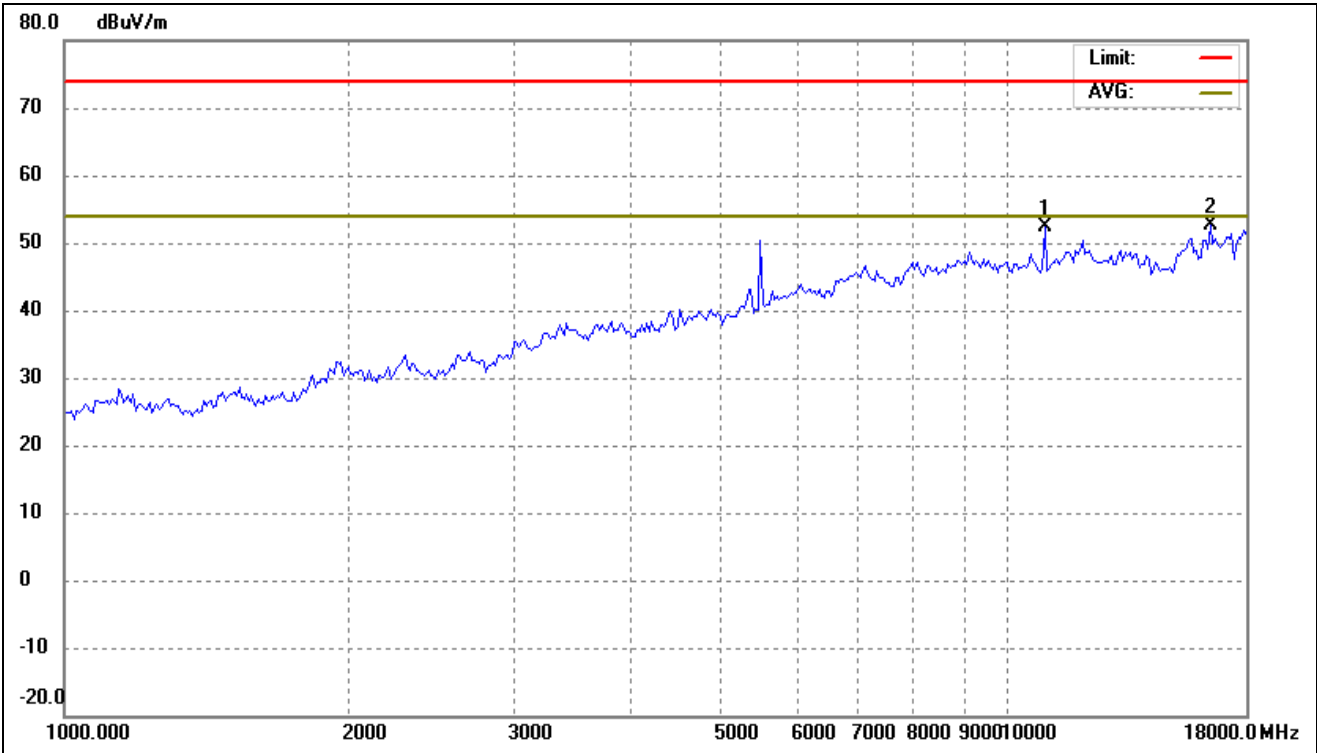
802.11a(worst case)			
Test Channel	5320MHz	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	10625.639	56.10	-3.39	52.71	74.00	-21.29	-	-	peak
2	15938.425	51.78	0.52	52.30	74.00	-21.70	-	-	peak

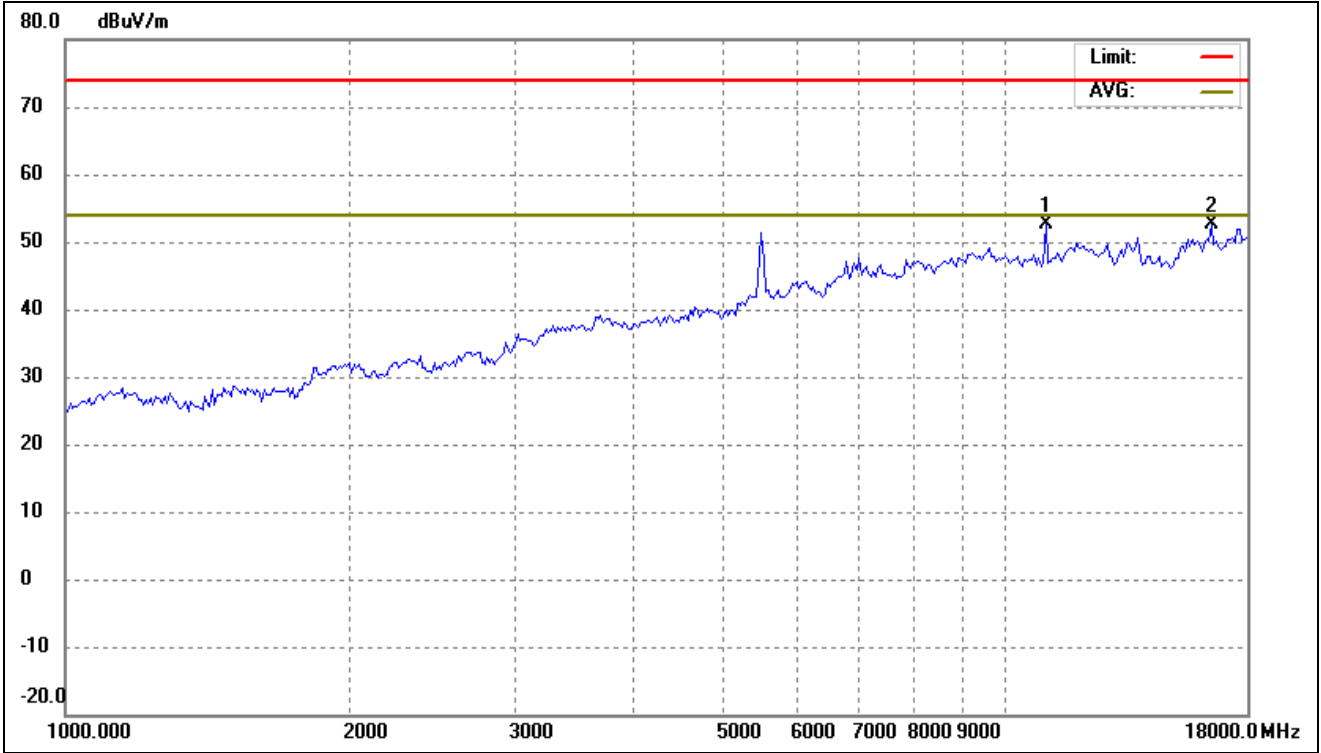
➤ 5470-5725MHz

802.11a(worst case)			
Test Channel	5500MHz	Polarity:	Horizontal



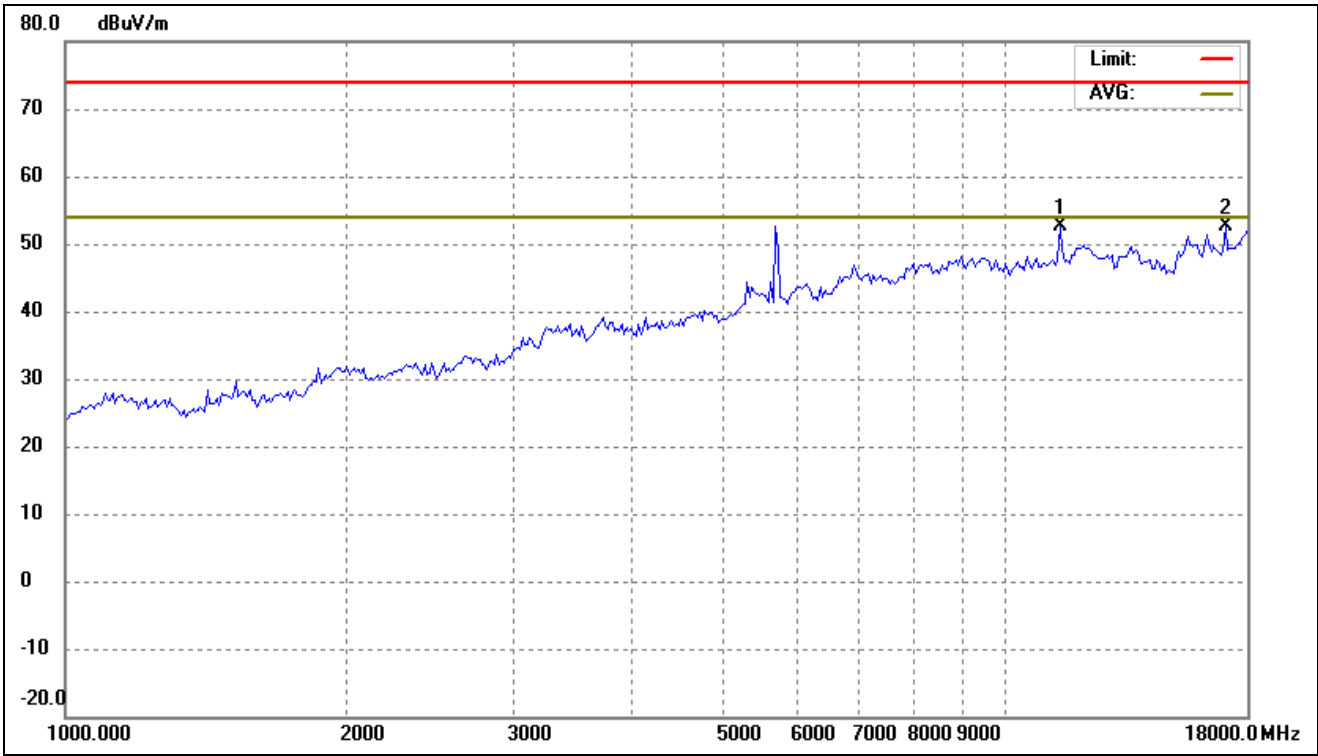
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	11000.000	55.49	-3.05	52.44	74.00	-21.56	-	-	peak
2	16500.000	50.52	2.02	52.54	74.00	-21.46	-	-	peak

802.11a(worst case)			
Test Channel	5500MHz	Polarity:	Vertical



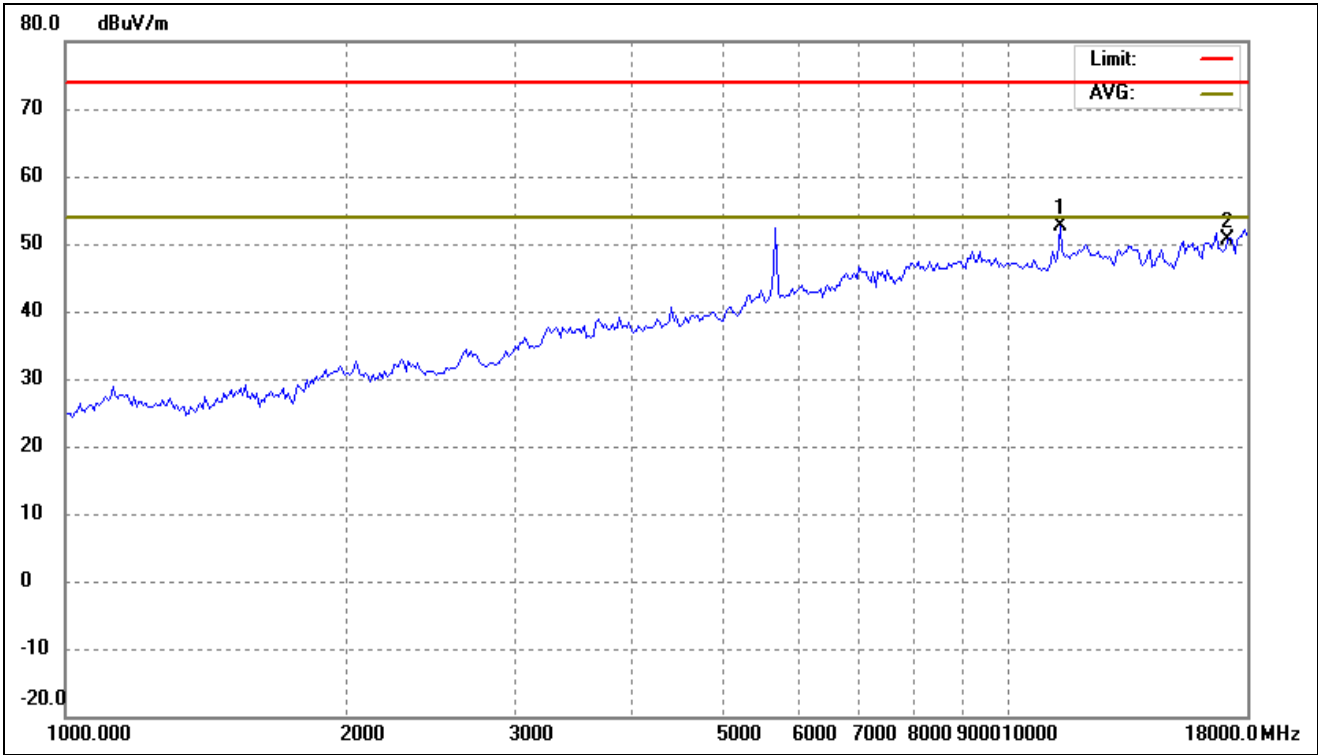
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	11000.000	55.74	-3.05	52.69	74.00	-21.31	-	-	peak
2	16500.000	50.61	2.02	52.63	74.00	-21.37	-	-	peak

802.11a(worst case)			
Test Channel	5700MHz	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	11390.479	54.63	-1.93	52.70	74.00	-21.30	-	-	peak
2	17085.682	51.49	1.24	52.73	74.00	-21.27	-	-	peak

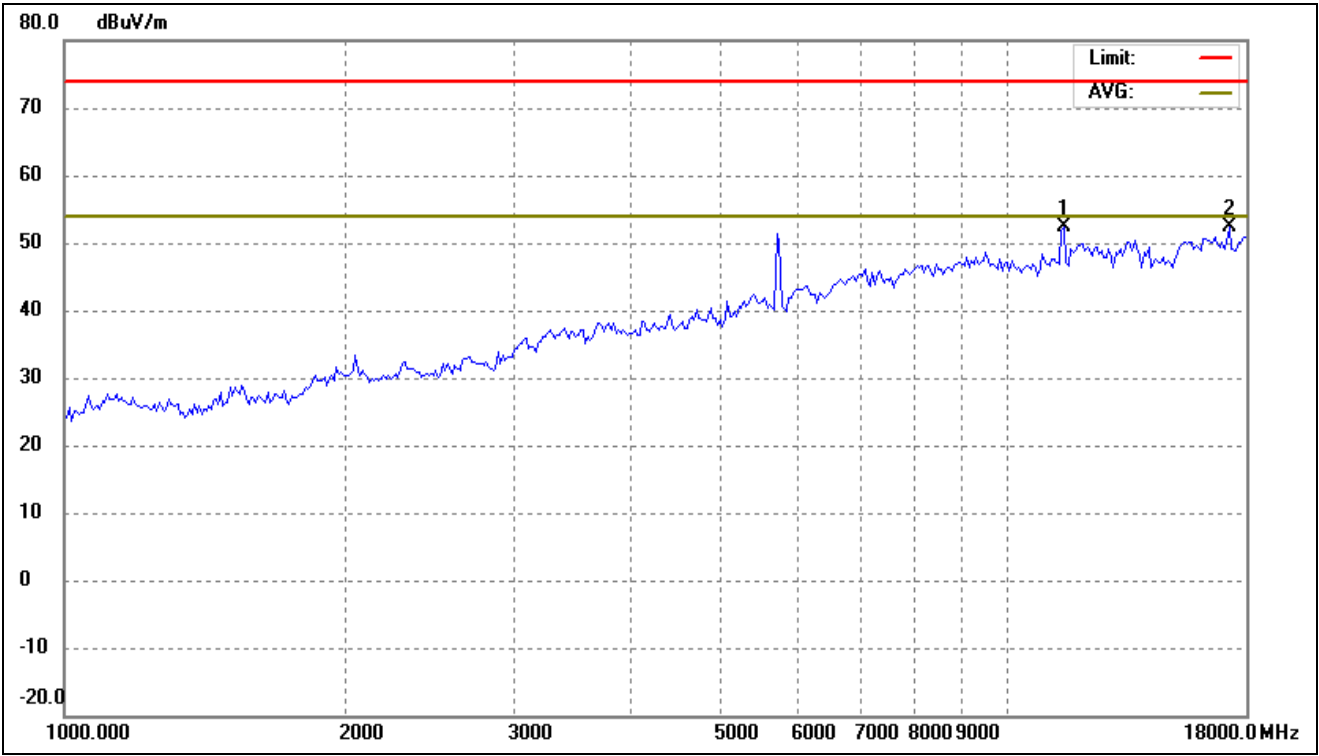
802.11a(worst case)			
Test Channel	5700MHz	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	11390.479	54.53	-1.93	52.60	74.00	-21.40	-	-	peak
2	17100.000	49.42	1.23	50.65	74.00	-23.35	-	-	peak

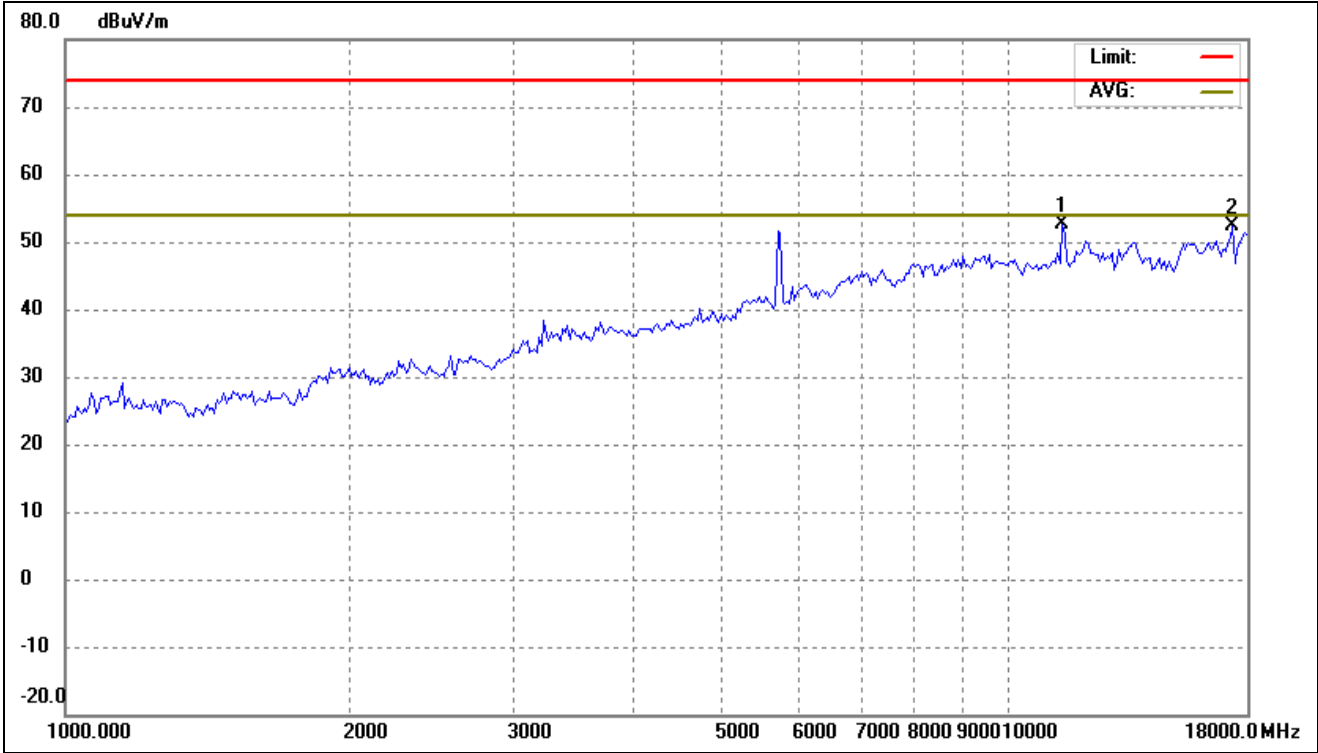
➤ 5725-5850MHz

802.11a(worst case)			
Test Channel	5745MHz	Polarity:	Horizontal



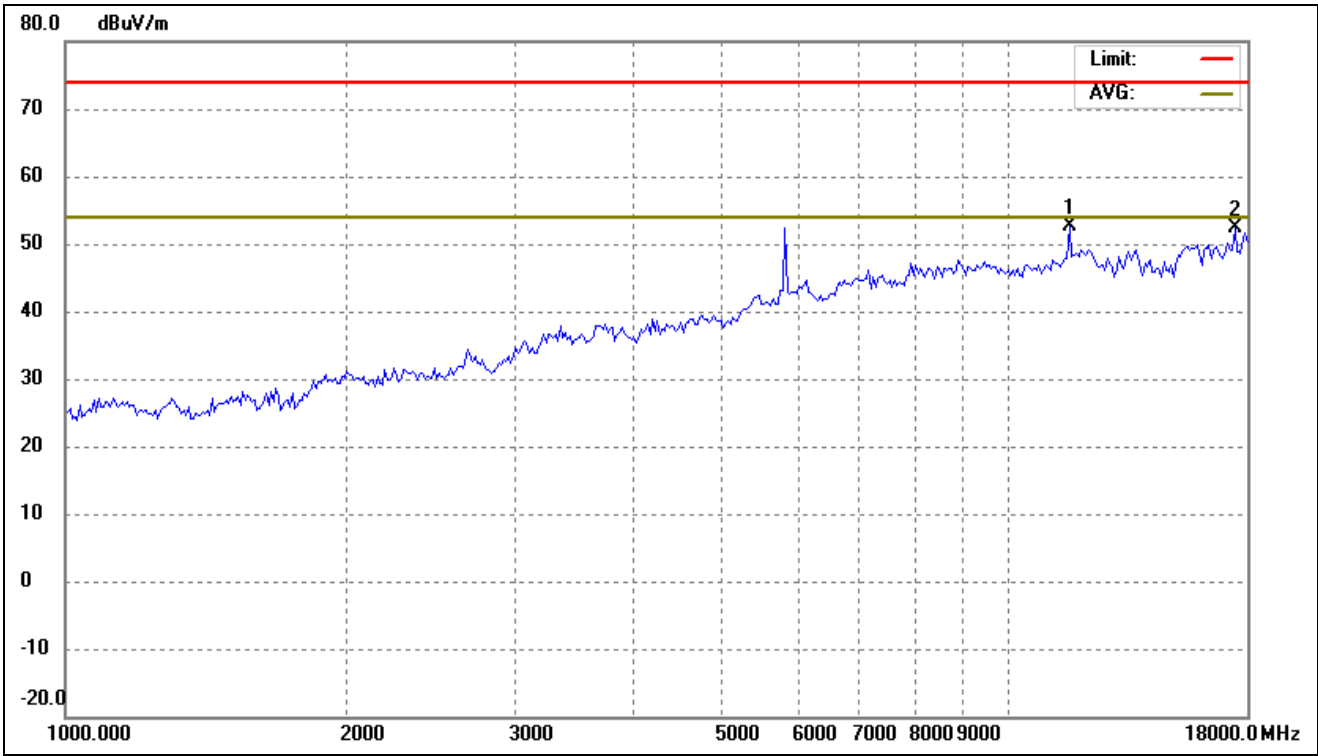
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	11490.000	54.05	-1.65	52.40	74.00	-21.60	-	-	peak
2	17235.000	50.19	2.30	52.49	74.00	-21.51	-	-	peak

802.11a(worst case)			
Test Channel	5745MHz	Polarity:	Vertical



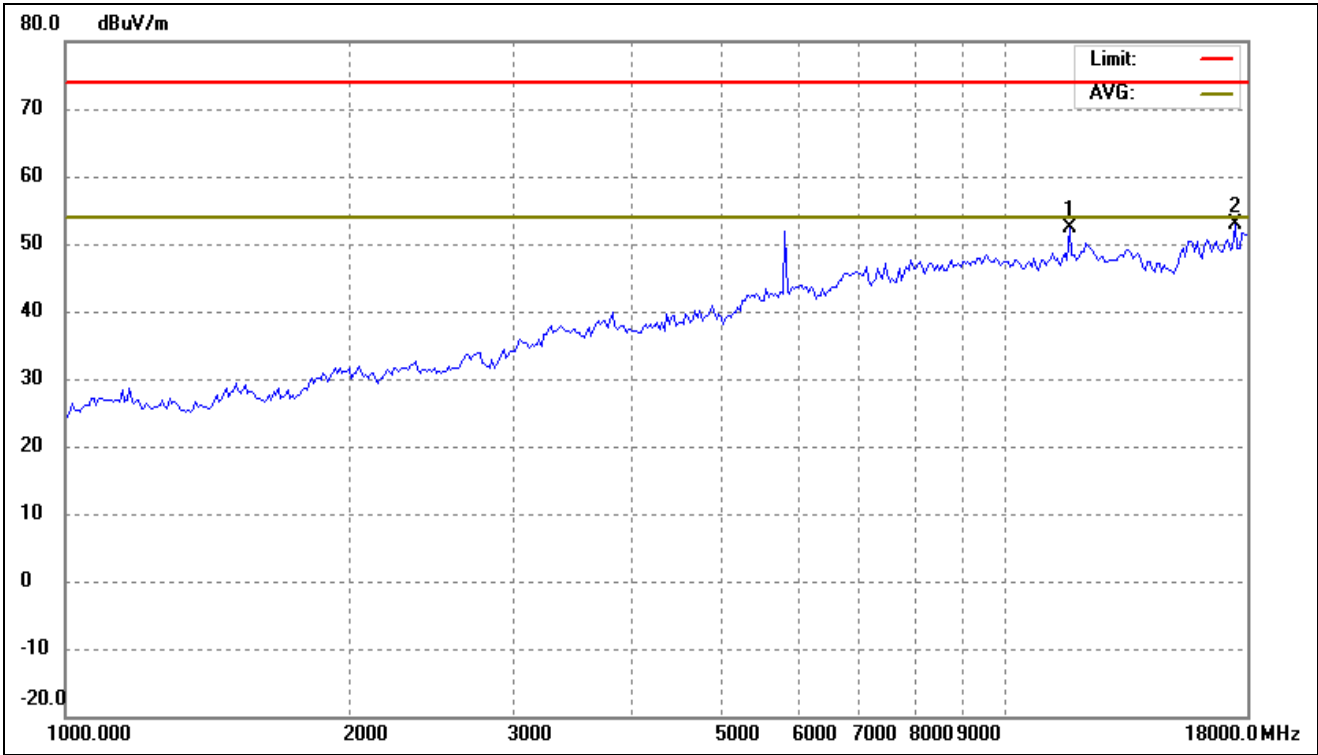
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	11456.648	54.33	-1.74	52.59	74.00	-21.41	-	-	peak
2	17385.174	49.74	2.52	52.26	74.00	-21.74	-	-	peak

802.11a(worst case)			
Test Channel	5825MHz	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	11650.000	53.65	-1.14	52.51	74.00	-21.49	-	-	peak
2	17475.000	49.84	2.55	52.39	74.00	-21.61	-	-	peak

802.11a(worst case)			
Test Channel	5825MHz	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	11650.000	53.53	-1.14	52.39	74.00	-21.61	-	-	peak
2	17475.000	50.34	2.55	52.89	74.00	-21.11	-	-	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.

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

- Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-43.21	-27
Highest	Above 5350	-42.18	-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	-42.39	-27
Highest	Above 5350	-41.74	-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	-42.74	-27
Highest	Above 5725	-39.06	-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	-46.36	-27
	5650 to 5700	-33.47	-27 to -17
	5700 to 5720	-27.98	-17 to 15.6
	5720 to 5725	-17.26	15.6 to 27
Highest	5850 to 5855	-14.74	27 to 15.6
	5855 to 5875	-21.06	15.6 to -17
	5875 to 5925	-33.13	-17 to -27
	Above 5925	-38.29	-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)

- Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-40.74	-27
Highest	Above 5350	-41.36	-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	-41.87	-27
Highest	Above 5350	-42.06	-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	-38.43	-27
Highest	Above 5725	-39.46	-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	-46.52	-27
	5650 to 5700	-33.06	-27 to -17
	5700 to 5720	-27.45	-17 to 15.6
	5720 to 5725	-17.30	15.6 to 27
Highest	5850 to 5855	-14.53	27 to 15.6
	5855 to 5875	-21.30	15.6 to -17
	5875 to 5925	-33.71	-17 to -27
	Above 5925	-38.43	-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)

- Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-39.54	-27
Highest	Above 5350	-38.70	-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	-37.78	-27
Highest	Above 5350	-38.39	-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	-35.10	-27
Highest	Above 5725	-37.98	-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 5715	-41.63	-27
	5715 to 5725	-35.24	-17
Highest	5850 to 5860	-37.19	-17
	Above 5860	-38.54	-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

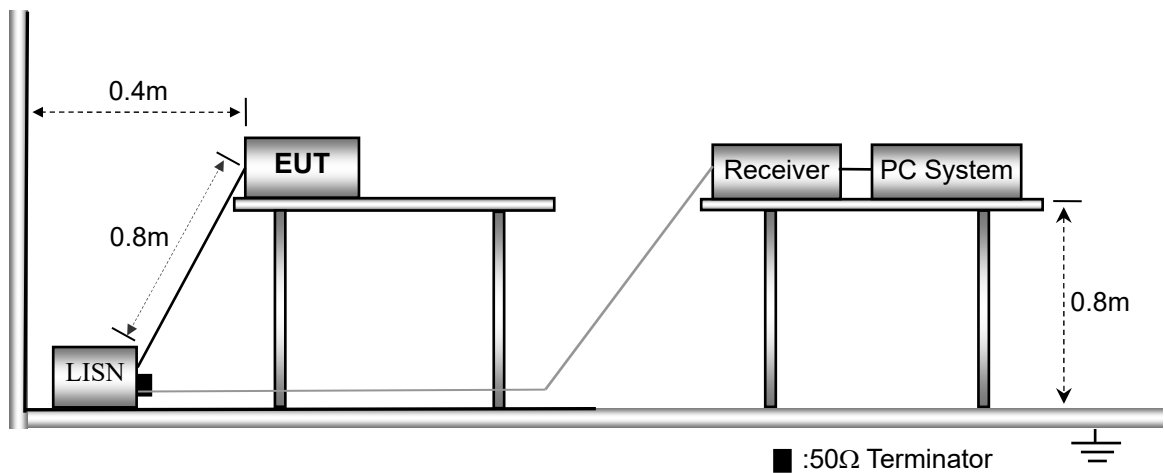
10. Conducted Emissions

10.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 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



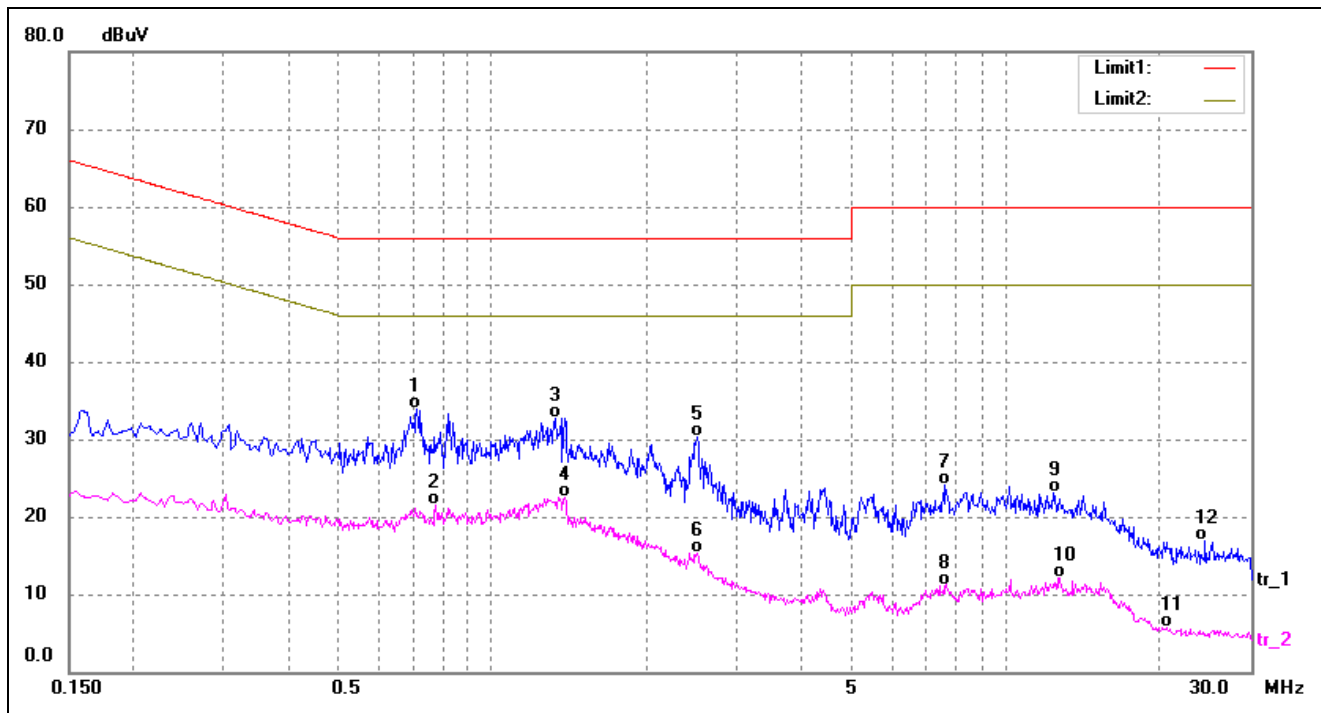
10.3 Test Receiver Setup

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

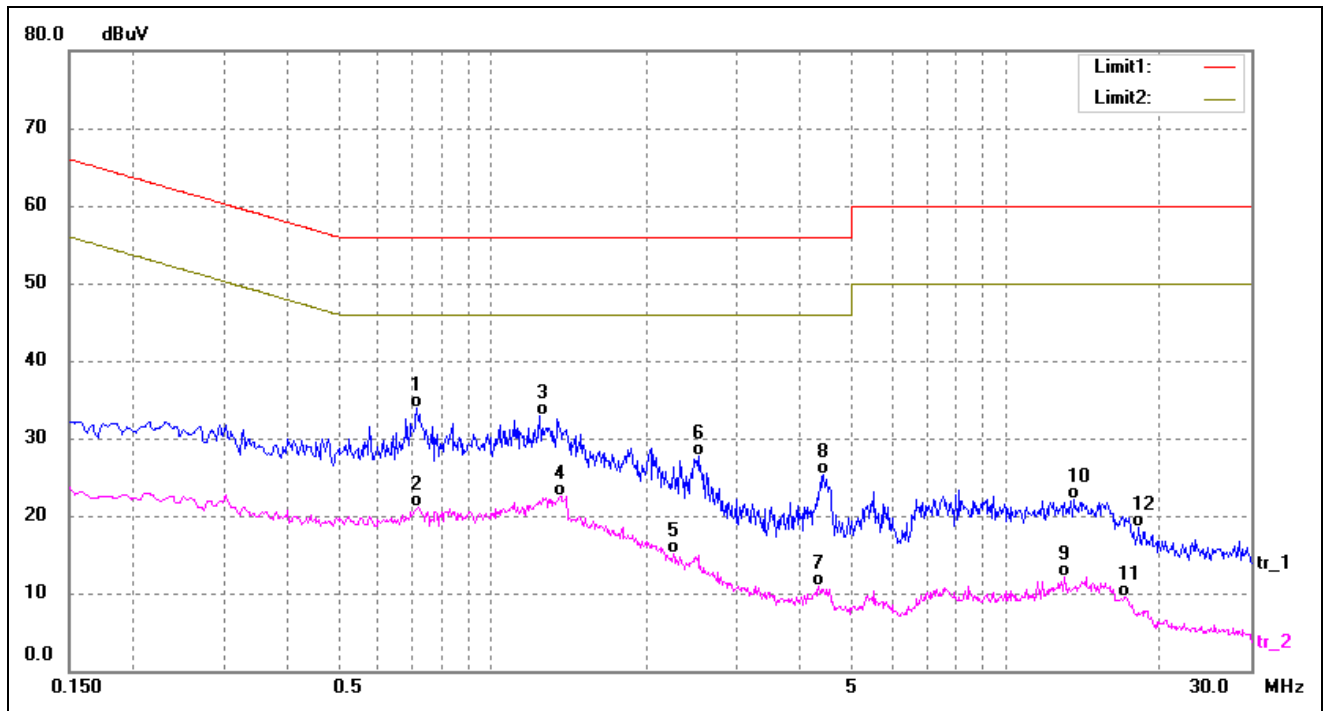
10.4 Summary of Test Results/Plots

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*	0.7140	24.26	9.74	34.00	56.00	-22.00	QP
2	0.7780	11.72	9.75	21.47	46.00	-24.53	AVG
3	1.3300	23.16	9.63	32.79	56.00	-23.21	QP
4	1.3820	12.87	9.61	22.48	46.00	-23.52	AVG
5	2.5100	20.94	9.38	30.32	56.00	-25.68	QP
6	2.5100	5.99	9.38	15.37	46.00	-30.63	AVG
7	7.6380	14.33	9.79	24.12	60.00	-35.88	QP
8	7.6820	1.41	9.79	11.20	50.00	-38.80	AVG
9	12.3220	13.43	9.67	23.10	60.00	-36.90	QP
10	12.7540	2.43	9.64	12.07	50.00	-37.93	AVG
11	20.5620	-3.78	9.54	5.76	50.00	-44.24	AVG
12	24.4820	7.27	9.54	16.81	60.00	-43.19	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)	Detector
1*	0.7140	24.17	9.74	33.91	56.00	-22.09	QP
2	0.7180	11.31	9.74	21.05	46.00	-24.95	AVG
3	1.2380	23.29	9.66	32.95	56.00	-23.05	QP
4	1.3660	12.91	9.61	22.52	46.00	-23.48	AVG
5	2.2540	5.79	9.37	15.16	46.00	-30.84	AVG
6	2.5260	18.34	9.38	27.72	56.00	-28.28	QP
7	4.3180	1.44	9.49	10.93	46.00	-35.07	AVG
8	4.4220	15.71	9.50	25.21	56.00	-30.79	QP
9	13.0500	2.55	9.63	12.18	50.00	-37.82	AVG
10	13.5660	12.50	9.60	22.10	60.00	-37.90	QP
11	17.1020	-0.08	9.52	9.44	50.00	-40.56	AVG
12	18.1900	8.95	9.53	18.48	60.00	-41.52	QP

APPENDIX SUMMARY

Project No.	WTX26X05128021W001	Test Engineer	Baidi Zhong
Start date	2026/8/3	Finish date	2026/8/3
Temperature	24℃	Humidity	56%
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

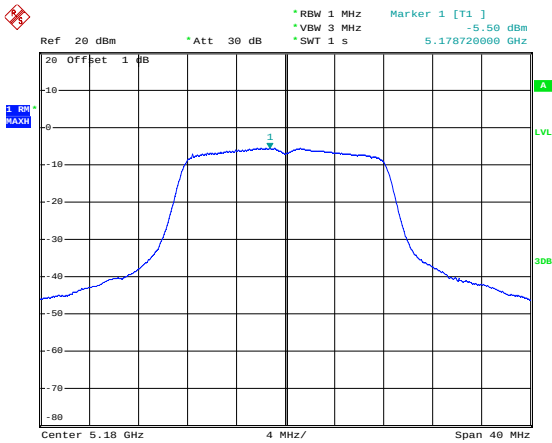
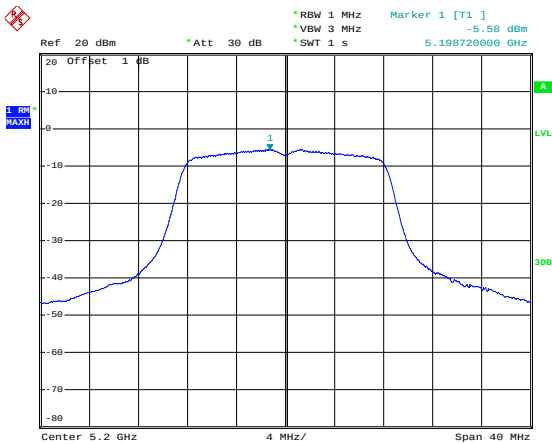
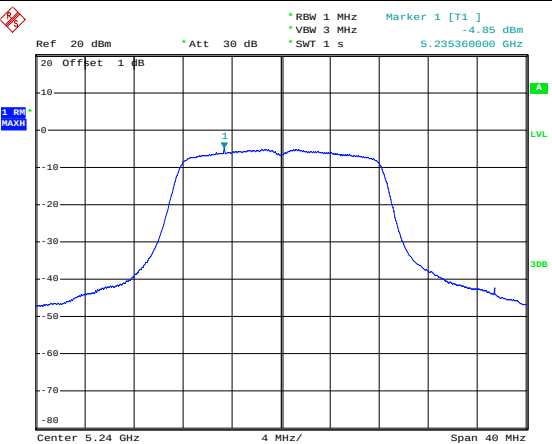
Power Spectral Density			
U-NII-1:5150-5250MHz			
Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5180	-5.50	11
	5200	-5.58	11
	5240	-4.85	11
802.11n-HT20	5180	-5.34	11
	5200	-5.99	11
	5240	-4.99	11
802.11n-HT40	5190	-10.39	11
	5230	-7.73	11

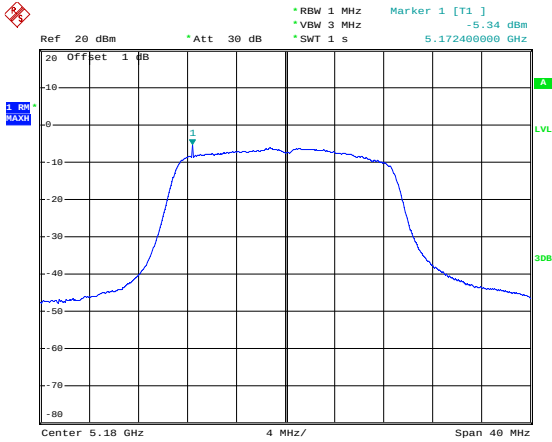
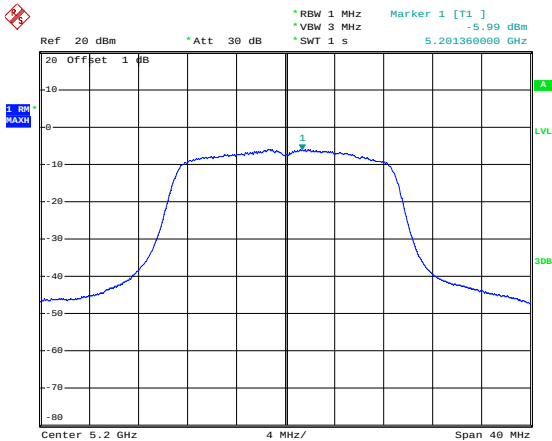
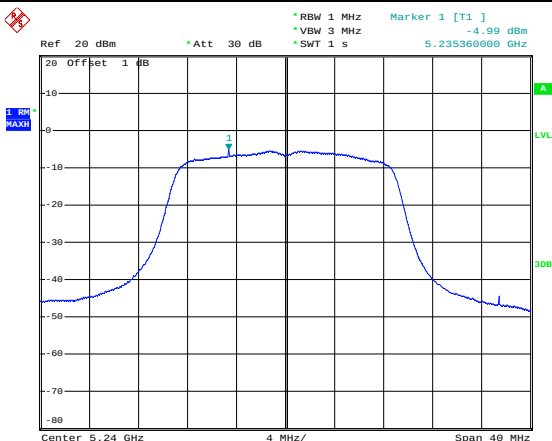
U-NII-2A: 5250-5350MHz			
Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5260	-3.45	11
	5280	-4.22	11
	5320	-4.52	11
802.11n-HT20	5260	-5.34	11
	5280	-5.50	11
	5320	-5.75	11
802.11n-HT40	5270	-9.89	11
	5310	-9.58	11

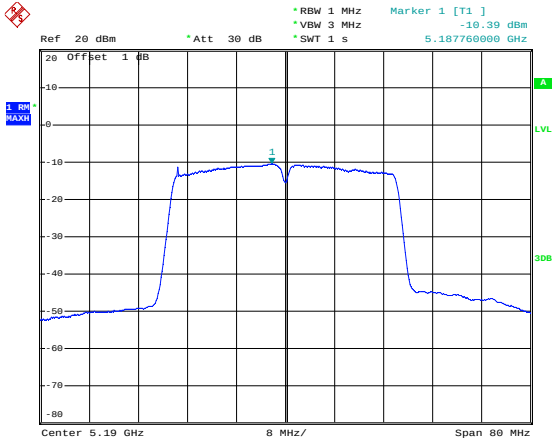
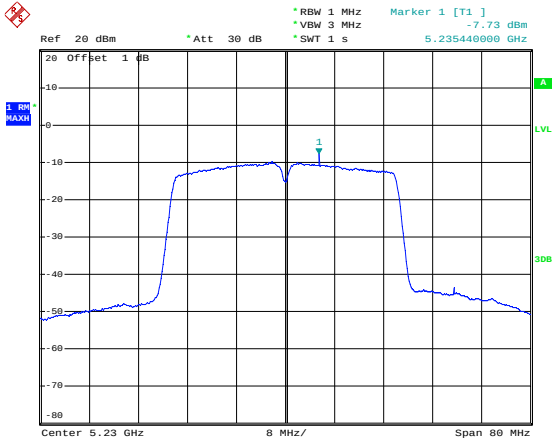
U-NII-2C: 5470-5725MHz			
Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5500	-5.73	11
	5580	-5.79	11
	5700	-6.08	11
802.11n-HT20	5500	-7.21	11
	5580	-7.24	11
	5700	-7.77	11
802.11n-HT40	5510	-10.52	11
	5550	-10.29	11
	5670	-10.65	11

U-NII-3: 5725-5850MHz					
Operating mode	Test Channel	Power Spectral Density dBm/300kHz	Factor	Power Spectral Density* dBm/500kHz	Limit dBm/500kHz
802.11a	5745	-8.33	2.22	-6.11	30
	5785	-8.82	2.22	-6.6	30
	5825	-9.14	2.22	-6.92	30
802.11n-HT20	5745	-9.35	2.22	-7.13	30
	5785	-10.64	2.22	-8.42	30
	5825	-11.03	2.22	-8.81	30
802.11n HT40	5755	-12.19	2.22	-9.97	30
	5795	-14.24	2.22	-12.02	30
*Note: Maximum PSD=PSD(dBm/300kHz)+10log(500kHz/300kHz)=2.22					

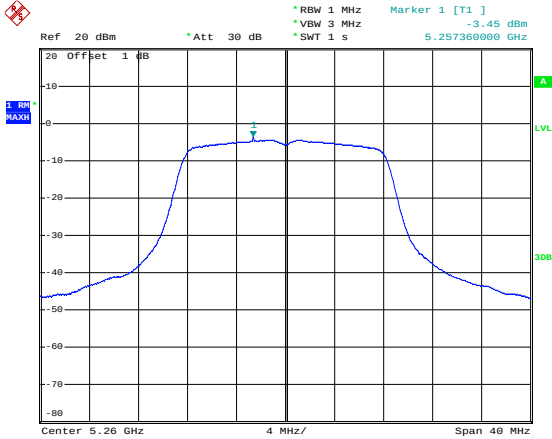
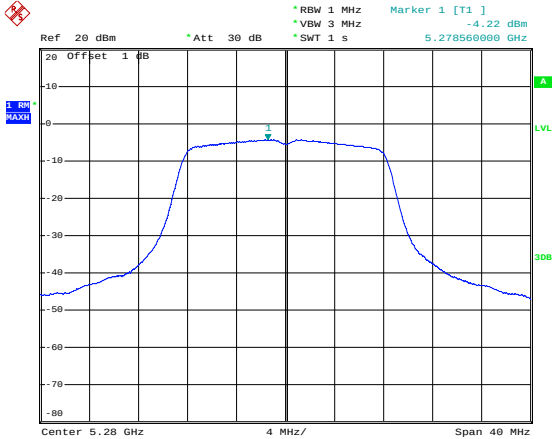
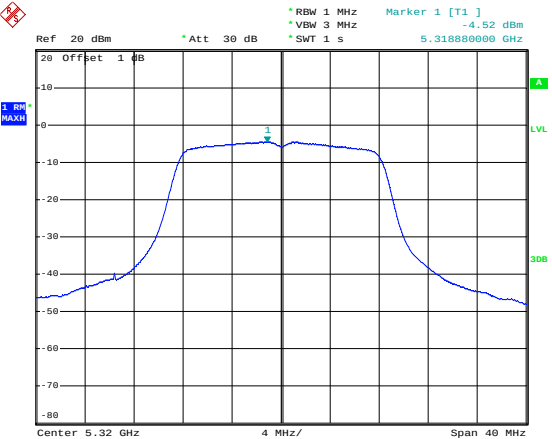
5150-5250MHz

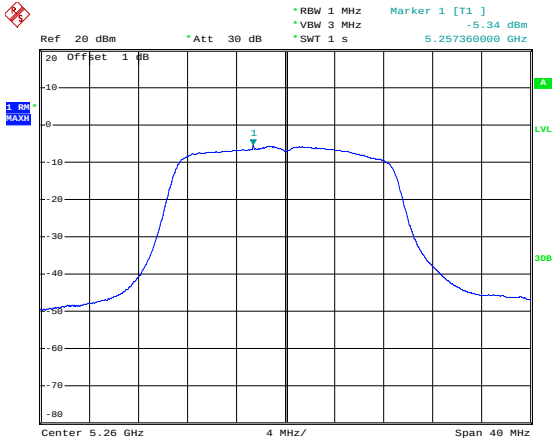
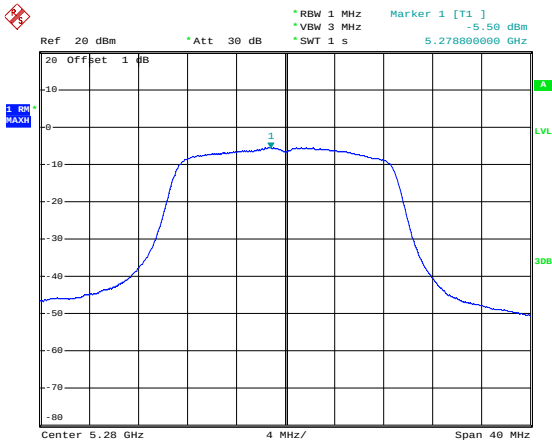
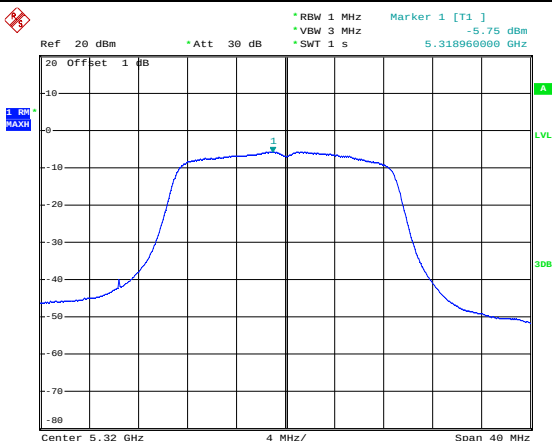
802.11a-Low	 Date: 3.AUG.2026 09:44:16
802.11a-Middle	 Date: 3.AUG.2026 09:43:42
802.11a-High	 Date: 3.AUG.2026 09:43:02

802.11n-HT20-Low	 Ref 20 dBm *Att 30 dB *RBW 1 MHz *VBW 3 MHz *SWT 1 s Marker 1 [T1] -5.34 dBm 5.172400000 GHz Center 5.18 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 09:41:03
802.11n-HT20-Middle	 Ref 20 dBm *Att 30 dB *RBW 1 MHz *VBW 3 MHz *SWT 1 s Marker 1 [T1] -5.99 dBm 5.201360000 GHz Center 5.2 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 09:41:33
802.11n-HT20-High	 Ref 20 dBm *Att 30 dB *RBW 1 MHz *VBW 3 MHz *SWT 1 s Marker 1 [T1] -4.99 dBm 5.235360000 GHz Center 5.24 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 09:42:01

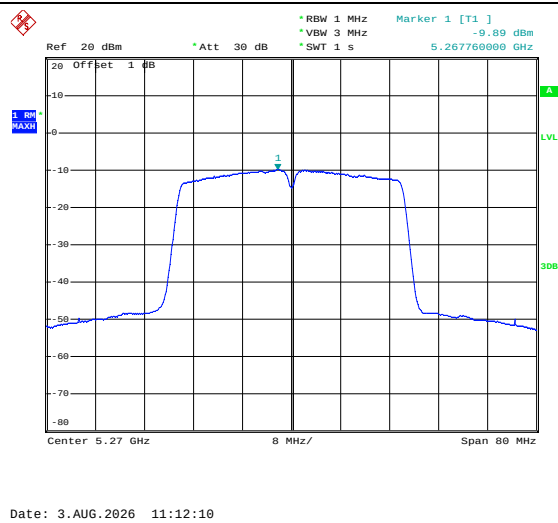
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802.11n-HT40-High	 Date: 3.AUG.2026 09:38:37

5250-5350MHz

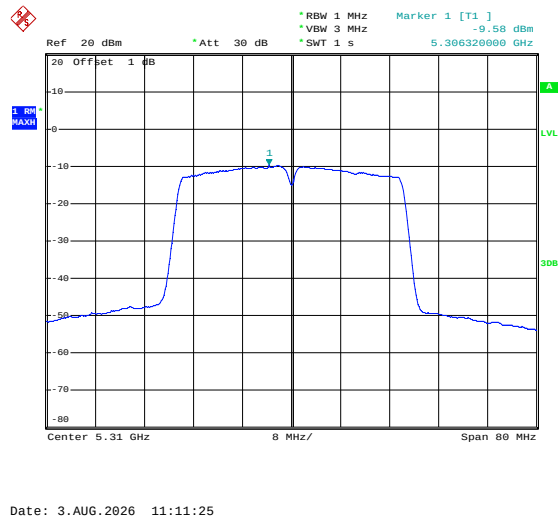
802.11a-Low	 Ref 20 dBm *Att 30 dB RBW 1 MHz Marker 1 [T1] -3.45 dBm VBW 3 MHz 5.257360000 GHz SWT 1 s 20 Offset 1 dB 1 RBW MAX Center 5.26 GHz 4 MHz/ Span 40 MHz LVL 30dB Date: 3.AUG.2026 11:15:29
802.11a-Middle	 Ref 20 dBm *Att 30 dB RBW 1 MHz Marker 1 [T1] -4.22 dBm VBW 3 MHz 5.278560000 GHz SWT 1 s 20 Offset 1 dB 1 RBW MAX Center 5.28 GHz 4 MHz/ Span 40 MHz LVL 30dB Date: 3.AUG.2026 11:15:02
802.11a-High	 Ref 20 dBm *Att 30 dB RBW 1 MHz Marker 1 [T1] -4.52 dBm VBW 3 MHz 5.318800000 GHz SWT 1 s 20 Offset 1 dB 1 RBW MAX Center 5.32 GHz 4 MHz/ Span 40 MHz LVL 30dB Date: 3.AUG.2026 11:14:35

802.11n-HT20-Low	 Date: 3.AUG.2026 11:12:50
802.11n-HT20-Middle	 Date: 3.AUG.2026 11:13:17
802.11n-HT20-High	 Date: 3.AUG.2026 11:13:45

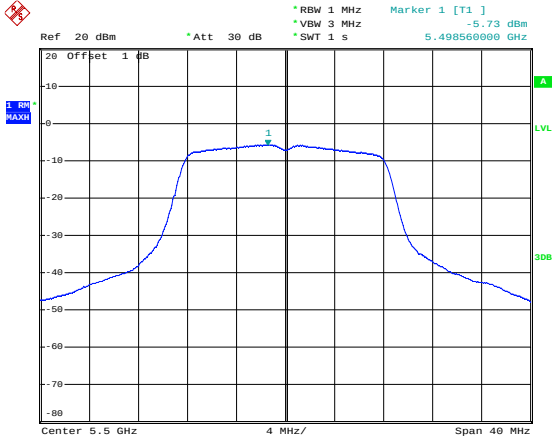
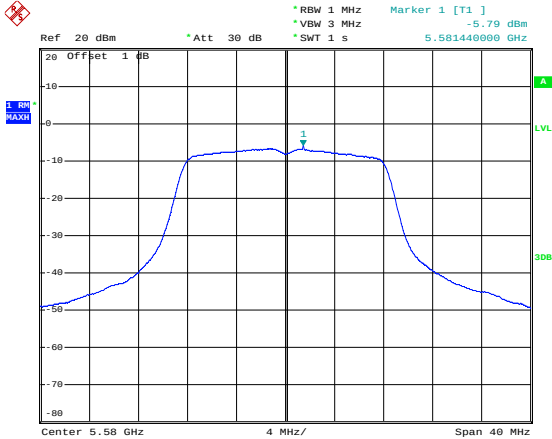
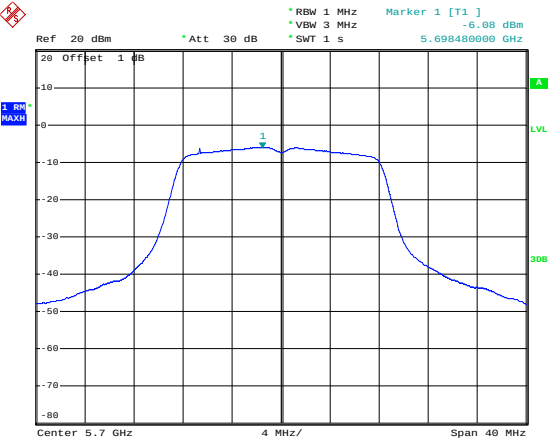
802.11n-HT40-Low

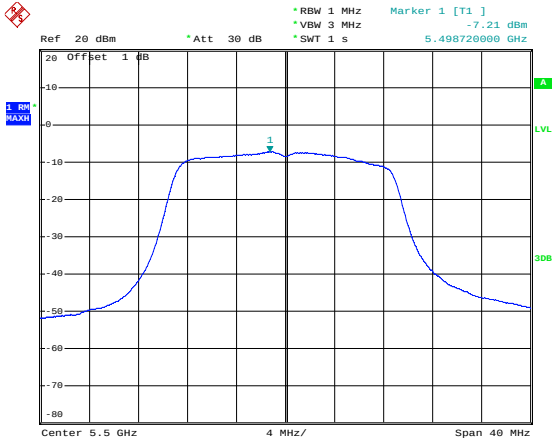
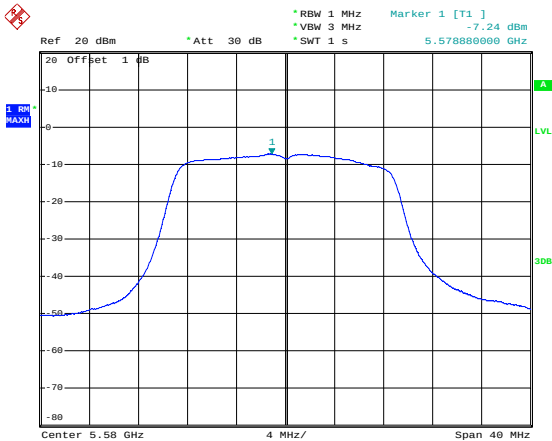
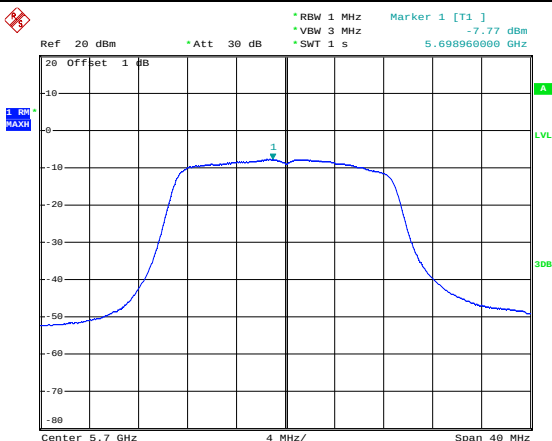


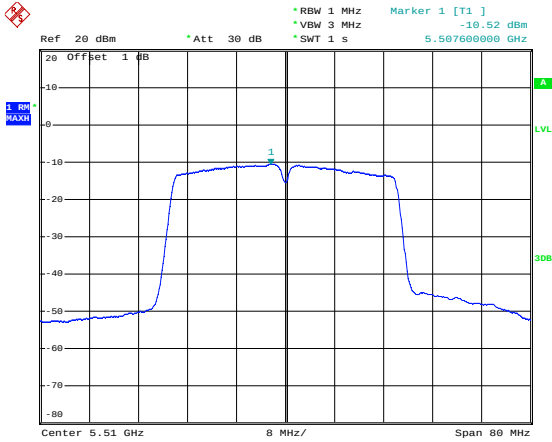
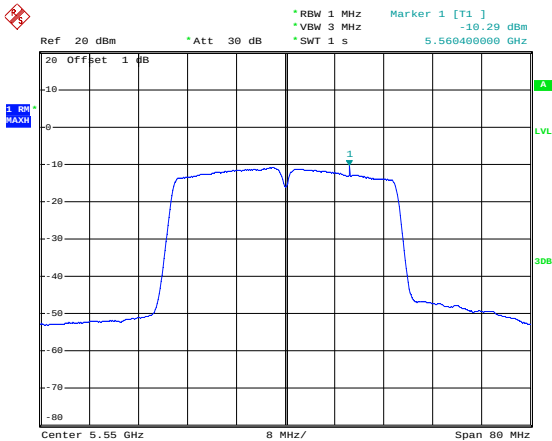
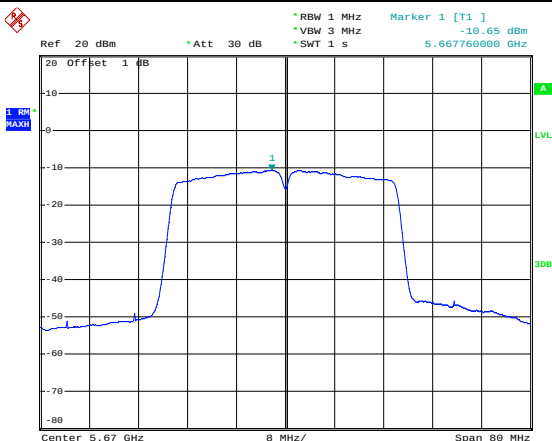
802.11n-HT40-High



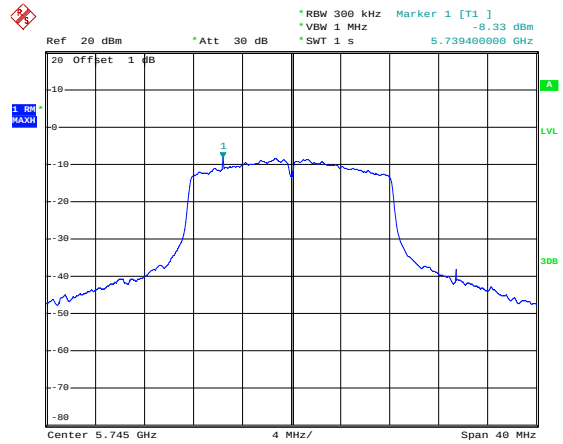
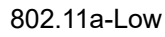
5470-5725MHz

802.11a-Low	 Ref 20 dBm *Att 30 dB RBW 1 MHz Marker 1 [T1] -5.73 dBm VBW 3 MHz 5.49856000 GHz SWT 1 s 20 Offset 1 dB 1 RBW MAX Center 5.5 GHz 4 MHz/ Span 40 MHz LVL 30dB Date: 3.AUG.2026 15:25:33
802.11a-Middle	 Ref 20 dBm *Att 30 dB RBW 1 MHz Marker 1 [T1] -5.79 dBm VBW 3 MHz 5.58144000 GHz SWT 1 s 20 Offset 1 dB 1 RBW MAX Center 5.58 GHz 4 MHz/ Span 40 MHz LVL 30dB Date: 3.AUG.2026 15:27:13
802.11a-High	 Ref 20 dBm *Att 30 dB RBW 1 MHz Marker 1 [T1] -6.08 dBm VBW 3 MHz 5.69848000 GHz SWT 1 s 20 Offset 1 dB 1 RBW MAX Center 5.7 GHz 4 MHz/ Span 40 MHz LVL 30dB Date: 3.AUG.2026 15:26:20

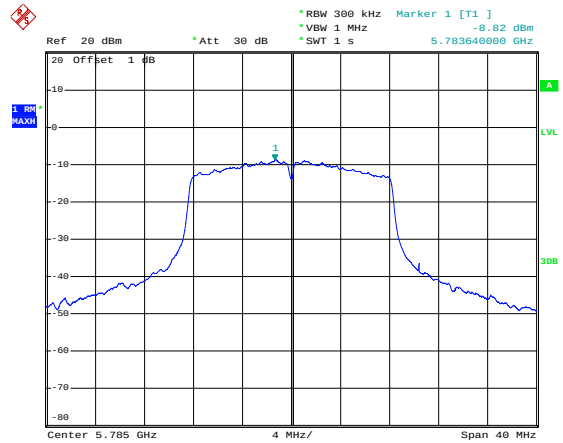
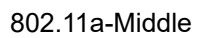
802.11n-HT20-Low	 Date: 3.AUG.2026 15:28:08
802.11n-HT20-Middle	 Date: 3.AUG.2026 15:30:39
802.11n-HT20-High	 Date: 3.AUG.2026 15:30:11

802.11n-HT40-Low	 Ref 20 dBm *Att 30 dB *RBW 1 MHz *VBW 3 MHz *SWT 1 s Marker 1 [T1] -10.52 dBm 5.50760000 GHz Center 5.51 GHz 8 MHz/ Span 80 MHz Date: 3.AUG.2026 15:31:29
802.11n-HT40-Middle	 Ref 20 dBm *Att 30 dB *RBW 1 MHz *VBW 3 MHz *SWT 1 s Marker 1 [T1] -10.29 dBm 5.56040000 GHz Center 5.55 GHz 8 MHz/ Span 80 MHz Date: 3.AUG.2026 15:32:46
802.11n-HT40-High	 Ref 20 dBm *Att 30 dB *RBW 1 MHz *VBW 3 MHz *SWT 1 s Marker 1 [T1] -10.65 dBm 5.66776000 GHz Center 5.67 GHz 8 MHz/ Span 80 MHz Date: 3.AUG.2026 15:32:19

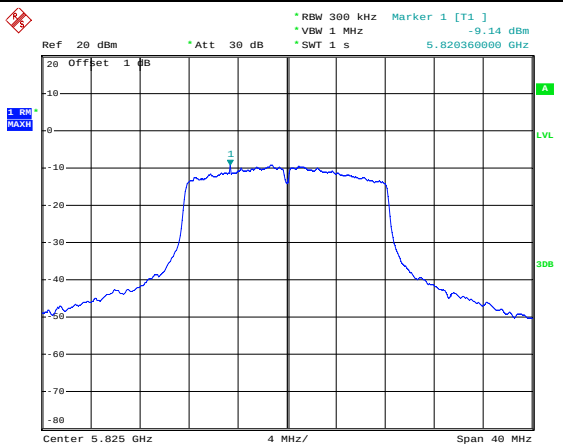
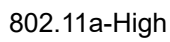
5725-5850MHz



Date: 3.AUG.2026 17:58:41

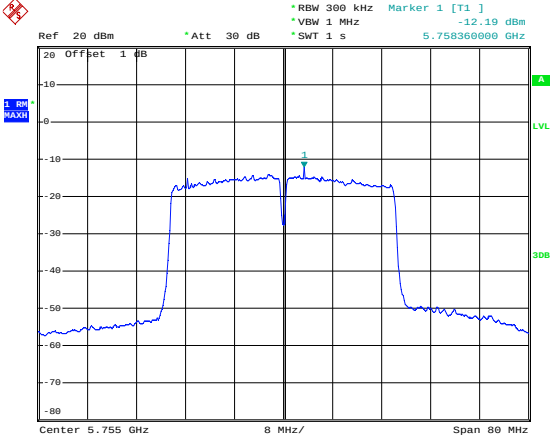
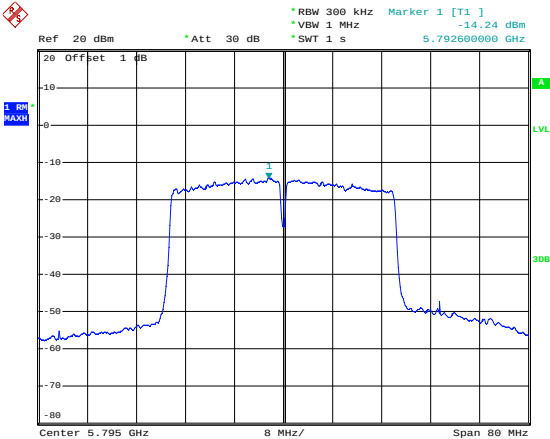


Date: 3.AUG.2026 17:56:35



Date: 3.AUG.2026 18:04:45

802.11n-HT20-Low	Date: 3.AUG.2026 18:13:43
802.11n-HT20-Middle	Date: 3.AUG.2026 18:10:02
802.11n-HT20-High	Date: 3.AUG.2026 18:09:12

802.11n-HT40-Low	 Ref 20 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1] -12.19 dBm *VBW 1 MHz *SWT 1 s 5.75360000 GHz 20 Offset 1 dB 1 dB MAX Center 5.755 GHz 8 MHz/ Span 80 MHz Date: 3.AUG.2026 18:14:23
802.11n-HT40-High	 Ref 20 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1] -14.24 dBm *VBW 1 MHz *SWT 1 s 5.79260000 GHz 20 Offset 1 dB 1 dB MAX Center 5.795 GHz 8 MHz/ Span 80 MHz Date: 3.AUG.2026 18:16:25

APPENDIX B

Emission Bandwidth and Occupied Bandwidth

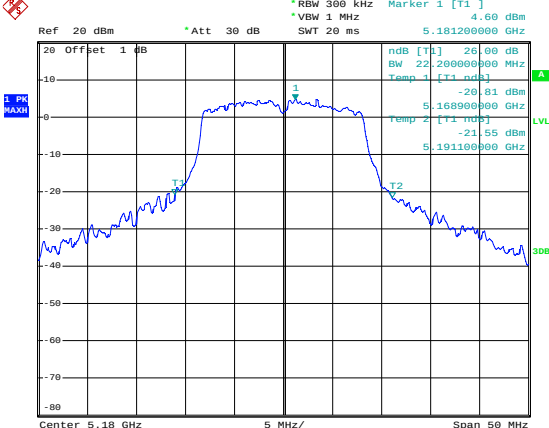
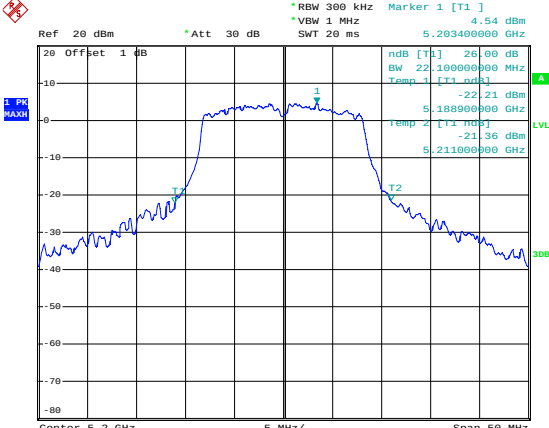
U-NII-1:5150-5250MHz				
Test Mode	Test Channel MHz	26 dB Bandwidth MHz	99% Bandwidth MHz	Limit MHz
802.11a	5180	22.20	16.80	Pass
	5200	22.10	16.88	Pass
	5240	21.90	16.88	Pass
802.11n-HT20	5180	21.80	17.84	Pass
	5200	21.60	17.84	Pass
	5240	21.50	17.84	Pass
802.11n-HT40	5190	38.40	36.48	Pass
	5230	38.40	36.48	Pass

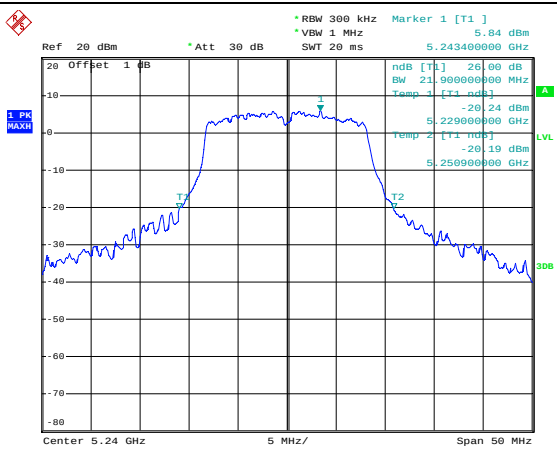
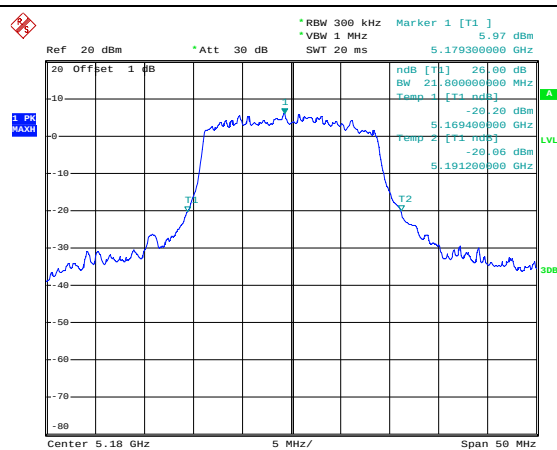
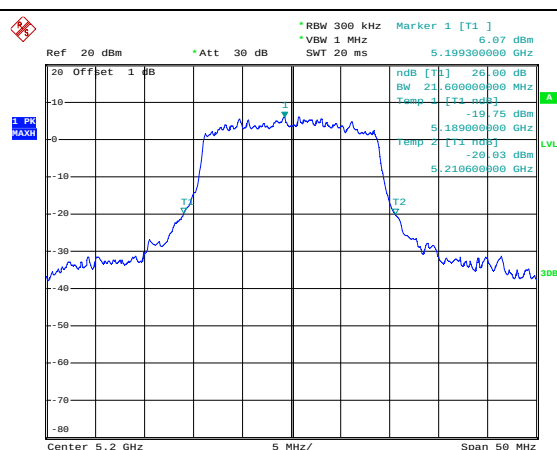
U-NII-2A: 5250-5350MHz				
Test Mode	Test Channel MHz	26 dB Bandwidth MHz	99% Bandwidth MHz	Limit MHz
802.11a	5260	21.90	16.80	Pass
	5280	21.50	16.80	Pass
	5320	21.50	16.80	Pass
802.11n-HT20	5260	21.40	17.84	Pass
	5280	21.60	17.84	Pass
	5320	21.60	17.92	Pass
802.11n-HT40	5270	38.40	36.32	Pass
	5310	38.40	36.32	Pass

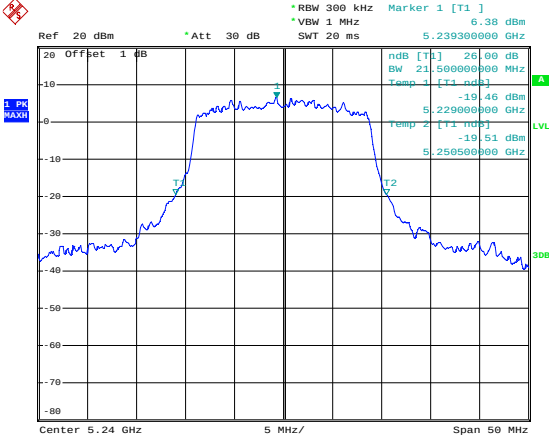
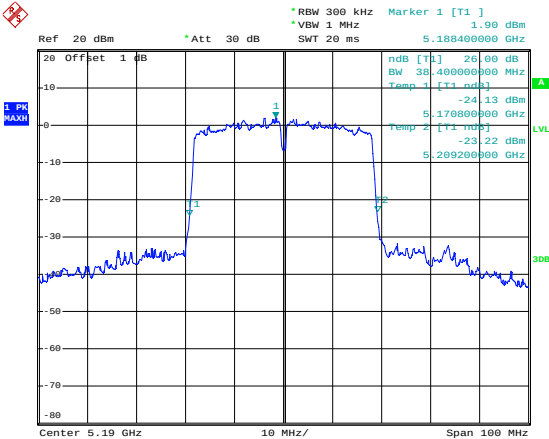
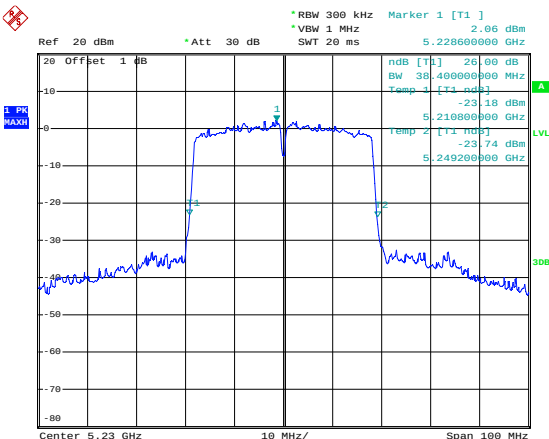
U-NII-2C: 5470-5725MHz				
Test Mode	Test Channel MHz	26 dB Bandwidth MHz	99% Bandwidth MHz	Limit MHz
802.11a	5500	22.20	16.80	Pass
	5580	21.90	16.80	Pass
	5700	21.60	16.72	Pass
802.11n-HT20	5500	21.50	17.84	Pass
	5580	21.70	17.84	Pass
	5700	21.50	17.84	Pass
802.11n-HT40	5510	38.40	36.32	Pass
	5550	38.40	36.32	Pass
	5670	38.40	36.48	Pass

U-NII-3: 5725-5850MHz				
Test Mode	Test Channel MHz	6 dB Bandwidth MHz	99% Bandwidth MHz	Limit MHz
802.11a	5745	15.36	16.64	≥500
	5785	15.28	16.64	≥500
	5825	15.28	16.64	≥500
802.11n-HT20	5745	16.40	18.00	≥500
	5785	16.32	17.84	≥500
	5825	16.32	17.84	≥500
802.11n-HT40	5755	36.00	36.32	≥500
	5795	35.68	36.32	≥500

26 dB Bandwidth
5150-5250MHz

802.11a-Low	 Ref 20 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1] 4.60 dBm *VBW 1 MHz SWT 20 ms 5.181200000 GHz ndB [T1] 26.00 dB BW 22.20000000 MHz Temp 1 [T1 ndB] -20.81 dBm 5.168900000 GHz Temp 2 [T1 ndB] -21.55 dBm 5.191100000 GHz Center 5.18 GHz 5 MHz/ Span 50 MHz Date: 3.AUG.2026 09:57:30
802.11a-Middle	 Ref 20 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1] 4.54 dBm *VBW 1 MHz SWT 20 ms 5.203400000 GHz ndB [T1] 26.00 dB BW 22.10000000 MHz Temp 1 [T1 ndB] -22.21 dBm 5.188900000 GHz Temp 2 [T1 ndB] -21.36 dBm 5.211000000 GHz Center 5.2 GHz 5 MHz/ Span 50 MHz Date: 3.AUG.2026 10:03:01

802.11a-High	 Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz Marker 1 [T1] 5.84 dBm SWT 20 ms 5.243400000 GHz <table><tr><td>ndB [T1]</td><td>26.00 dB</td></tr><tr><td>BW</td><td>21.90000000 MHz</td></tr><tr><td>Temp 1 [T1 ndB]</td><td>-20.24 dBm</td></tr><tr><td>Temp 2 [T2 ndB]</td><td>-20.19 dBm</td></tr></table> Center 5.24 GHz 5 MHz/ Span 50 MHz Date: 3.AUG.2026 10:18:23	ndB [T1]	26.00 dB	BW	21.90000000 MHz	Temp 1 [T1 ndB]	-20.24 dBm	Temp 2 [T2 ndB]	-20.19 dBm
ndB [T1]	26.00 dB								
BW	21.90000000 MHz								
Temp 1 [T1 ndB]	-20.24 dBm								
Temp 2 [T2 ndB]	-20.19 dBm								
802.11n-HT20-Low	 Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz Marker 1 [T1] 5.97 dBm SWT 20 ms 5.179300000 GHz <table><tr><td>ndB [T1]</td><td>26.00 dB</td></tr><tr><td>BW</td><td>21.80000000 MHz</td></tr><tr><td>Temp 1 [T1 ndB]</td><td>-20.20 dBm</td></tr><tr><td>Temp 2 [T2 ndB]</td><td>-20.06 dBm</td></tr></table> Center 5.18 GHz 5 MHz/ Span 50 MHz Date: 3.AUG.2026 10:31:04	ndB [T1]	26.00 dB	BW	21.80000000 MHz	Temp 1 [T1 ndB]	-20.20 dBm	Temp 2 [T2 ndB]	-20.06 dBm
ndB [T1]	26.00 dB								
BW	21.80000000 MHz								
Temp 1 [T1 ndB]	-20.20 dBm								
Temp 2 [T2 ndB]	-20.06 dBm								
802.11n-HT20-Middle	 Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz Marker 1 [T1] 6.07 dBm SWT 20 ms 5.199300000 GHz <table><tr><td>ndB [T1]</td><td>26.00 dB</td></tr><tr><td>BW</td><td>21.60000000 MHz</td></tr><tr><td>Temp 1 [T1 ndB]</td><td>-19.75 dBm</td></tr><tr><td>Temp 2 [T2 ndB]</td><td>-20.03 dBm</td></tr></table> Center 5.2 GHz 5 MHz/ Span 50 MHz Date: 3.AUG.2026 10:24:26	ndB [T1]	26.00 dB	BW	21.60000000 MHz	Temp 1 [T1 ndB]	-19.75 dBm	Temp 2 [T2 ndB]	-20.03 dBm
ndB [T1]	26.00 dB								
BW	21.60000000 MHz								
Temp 1 [T1 ndB]	-19.75 dBm								
Temp 2 [T2 ndB]	-20.03 dBm								

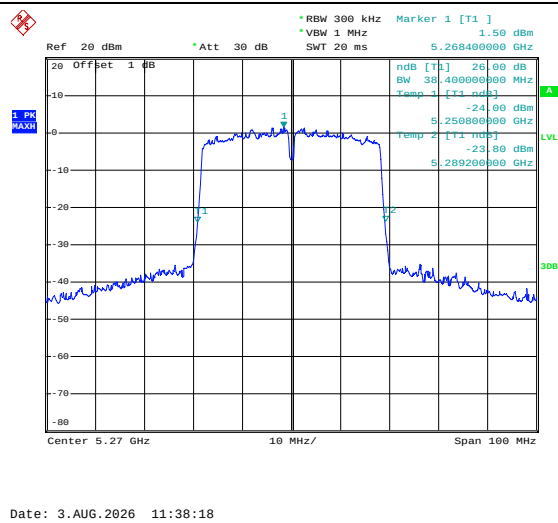
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802.11n-HT40-Low	 Date: 3.AUG.2026 10:33:10
802.11n-HT40-High	 Date: 3.AUG.2026 10:36:40

26 dB Bandwidth
5250-5350MHz

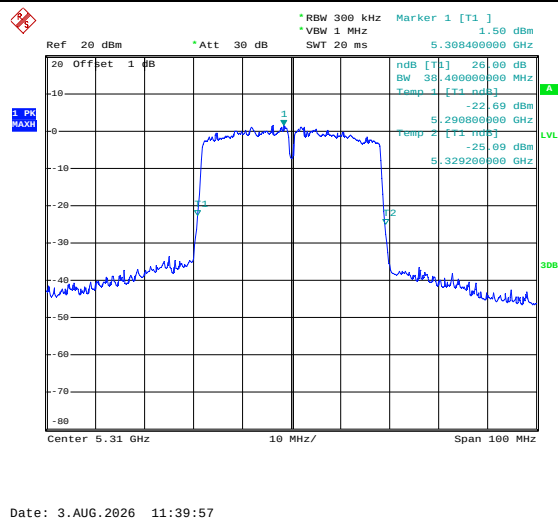
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802.11a-Middle	Date: 3.AUG.2026 11:30:57
802.11a-High	Date: 3.AUG.2026 11:33:01

802.11n-HT20-Low	Date: 3.AUG.2026 11:36:25
802.11n-HT20-Middle	Date: 3.AUG.2026 11:35:03
802.11n-HT20-High	Date: 3.AUG.2026 11:34:20

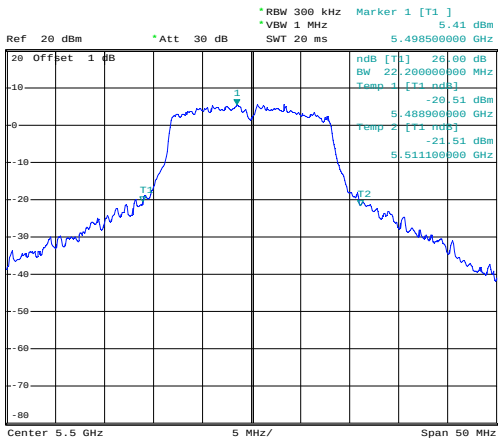
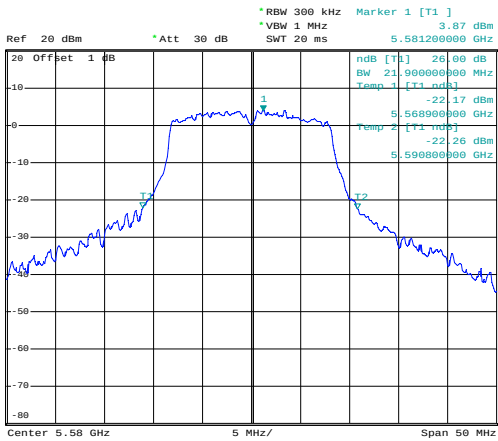
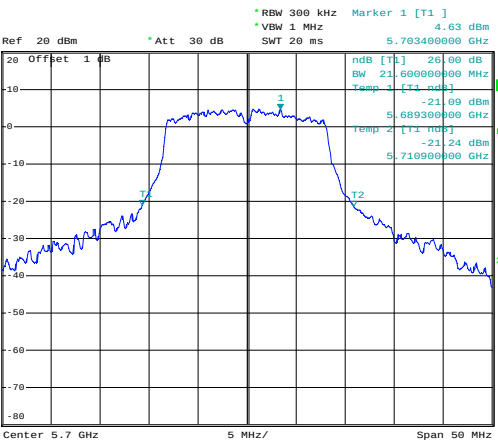
802.11n-HT40-Low



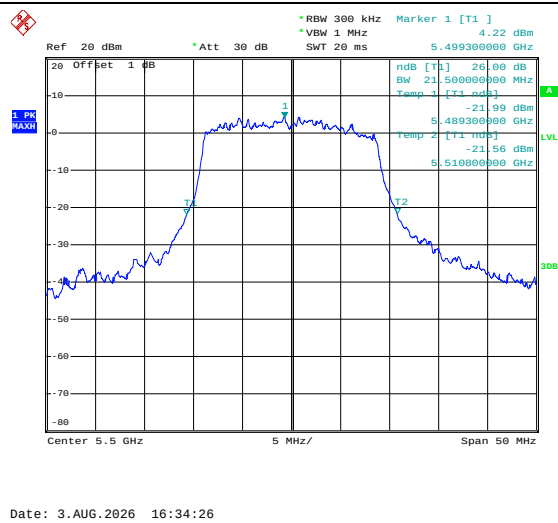
802.11n-HT40-High



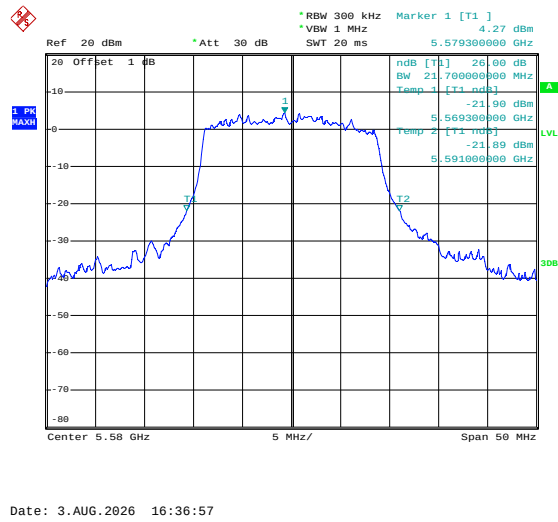
26 dB Bandwidth
5470-5725MHz

802.11a-Low	 Ref 20 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1] 5.41 dBm *VBW 1 MHz *SWT 20 ms 5.498500000 GHz ndB [T1] 26.00 dB BW 22.200000000 MHz Temp 1 [T1 ndB] -20.51 dBm 5.488900000 GHz Temp 2 [T1 ndB] -21.51 dBm 5.511100000 GHz Center 5.5 GHz 5 MHz/ Span 50 MHz Date: 3.AUG.2026 16:28:43
802.11a-Middle	 Ref 20 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1] 3.87 dBm *VBW 1 MHz *SWT 20 ms 5.581200000 GHz ndB [T1] 26.00 dB BW 21.900000000 MHz Temp 1 [T1 ndB] -22.17 dBm 5.568900000 GHz Temp 2 [T1 ndB] -22.26 dBm 5.590000000 GHz Center 5.58 GHz 5 MHz/ Span 50 MHz Date: 3.AUG.2026 16:33:26
802.11a-High	 Ref 20 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1] 4.63 dBm *VBW 1 MHz *SWT 20 ms 5.703400000 GHz ndB [T1] 26.00 dB BW 21.600000000 MHz Temp 1 [T1 ndB] -21.09 dBm 5.689300000 GHz Temp 2 [T1 ndB] -21.24 dBm 5.710900000 GHz Center 5.7 GHz 5 MHz/ Span 50 MHz Date: 3.AUG.2026 16:31:36

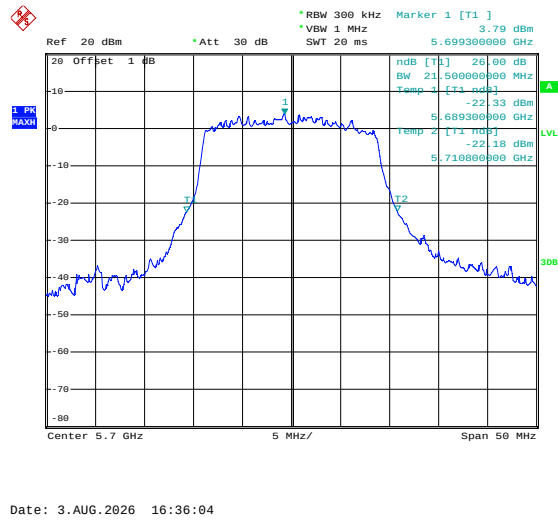
802.11n-HT20-Low

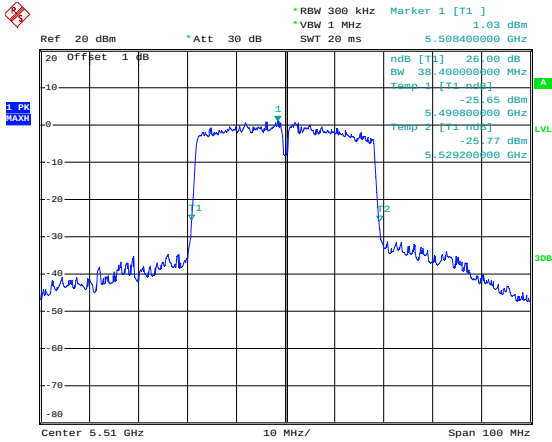
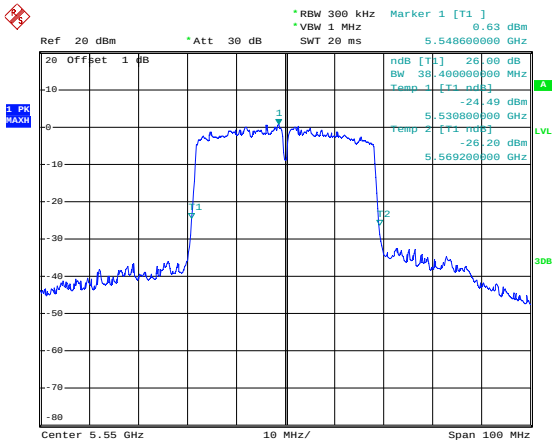
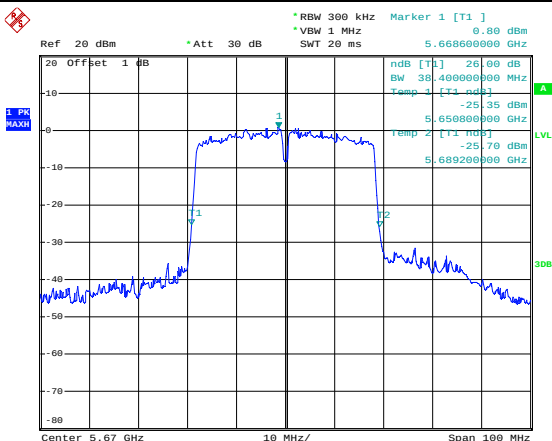


802.11n-HT20-Middle



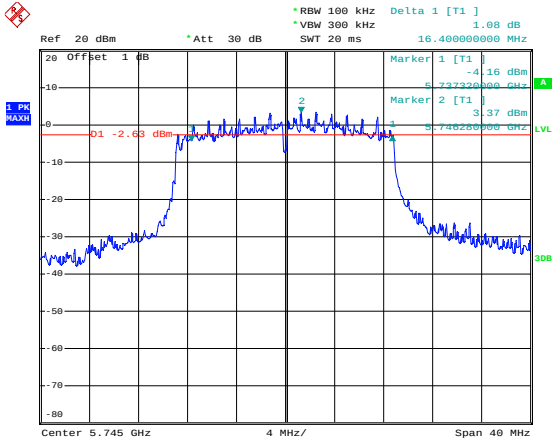
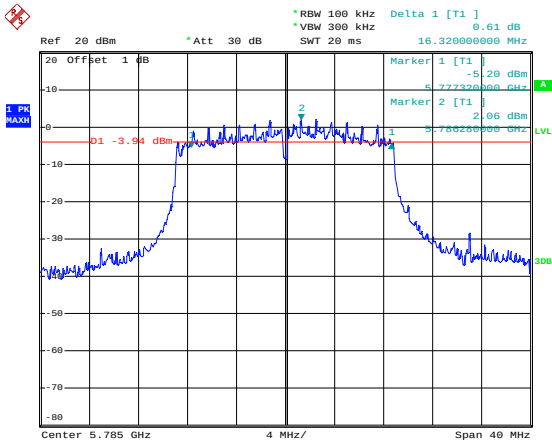
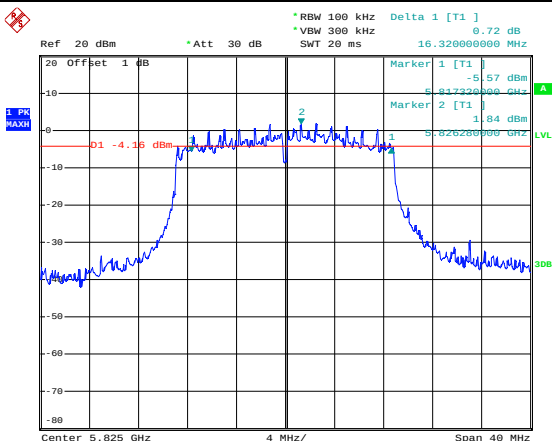
802.11n-HT20-High

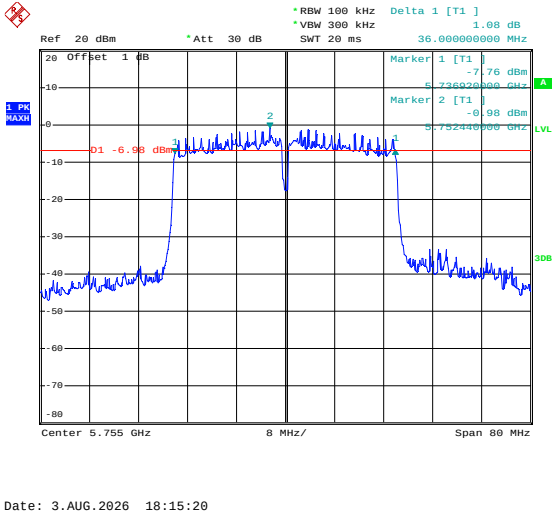
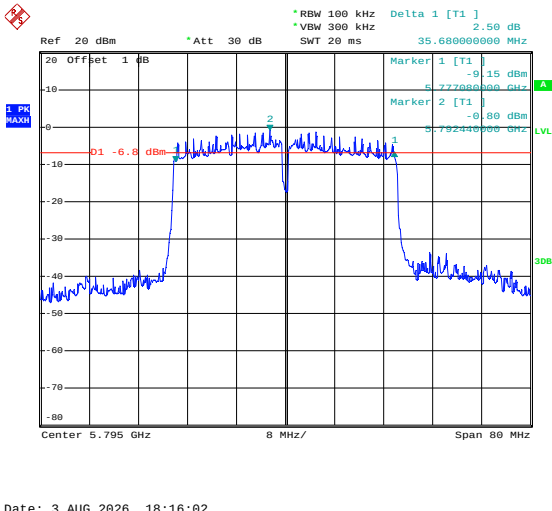


802.11n-HT40-Low	 Ref 20 dBm *Att 30 dB RBW 300 kHz Marker 1 [T1] 1.03 dBm VBW 1 MHz SWT 20 ms 5.508400000 GHz ndB [T1] 26.00 dB BW 38.40000000 MHz Temp 1 [T1 ndB] -25.65 dBm 5.490800000 GHz Temp 2 [T1 ndB] -25.77 dBm 5.529200000 GHz Center 5.51 GHz 10 MHz/ Span 100 MHz Date: 3.AUG.2026 16:38:07
802.11n-HT40-Middle	 Ref 20 dBm *Att 30 dB RBW 300 kHz Marker 1 [T1] 0.63 dBm VBW 1 MHz SWT 20 ms 5.548600000 GHz ndB [T1] 26.00 dB BW 38.40000000 MHz Temp 1 [T1 ndB] -24.49 dBm 5.530800000 GHz Temp 2 [T1 ndB] -26.20 dBm 5.569200000 GHz Center 5.55 GHz 10 MHz/ Span 100 MHz Date: 3.AUG.2026 16:43:04
802.11n-HT40-High	 Ref 20 dBm *Att 30 dB RBW 300 kHz Marker 1 [T1] 0.80 dBm VBW 1 MHz SWT 20 ms 5.668600000 GHz ndB [T1] 26.00 dB BW 38.40000000 MHz Temp 1 [T1 ndB] -25.35 dBm 5.650800000 GHz Temp 2 [T1 ndB] -25.70 dBm 5.689200000 GHz Center 5.67 GHz 10 MHz/ Span 100 MHz Date: 3.AUG.2026 16:40:55

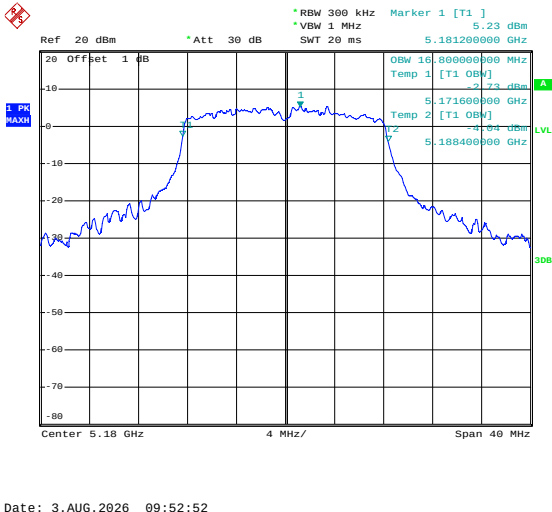
6 dB Bandwidth
5725-5850MHz

802.11a-Low	Date: 3.AUG.2026 18:01:29
802.11a-Middle	Date: 3.AUG.2026 17:55:51
802.11a-High	Date: 3.AUG.2026 18:06:23

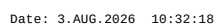
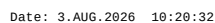
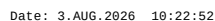
802.11n-HT20-Low	 Ref 20 dBm *Att 30 dB Delta 1 [T1] 1.08 dB *RBW 100 kHz *VBW 300 kHz SWT 20 ms 16.40000000 MHz Marker 1 [T1] -4.16 dBm Marker 2 [T1] 3.37 dBm D1 -2.63 dBm Center 5.745 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 18:12:59
802.11n-HT20-Middle	 Ref 20 dBm *Att 30 dB Delta 1 [T1] 0.61 dB *RBW 100 kHz *VBW 300 kHz SWT 20 ms 16.32000000 MHz Marker 1 [T1] -5.20 dBm Marker 2 [T1] 2.06 dBm D1 -3.94 dBm Center 5.785 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 18:11:30
802.11n-HT20-High	 Ref 20 dBm *Att 30 dB Delta 1 [T1] 0.72 dB *RBW 100 kHz *VBW 300 kHz SWT 20 ms 16.32000000 MHz Marker 1 [T1] -5.57 dBm Marker 2 [T1] 1.84 dBm D1 -4.16 dBm Center 5.825 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 18:08:08

802.11n-HT40-Low	 Ref 20 dBm *Att 30 dB Delta 1 [T1] 1.08 dB *RBW 100 kHz *VBW 300 kHz SWT 20 ms 36.00000000 MHz Marker 1 [T1] -7.76 dBm Marker 2 [T1] -6.98 dBm LVL 300 Center 5.755 GHz 8 MHz/ Span 80 MHz Date: 3.AUG.2026 18:15:20
802.11n-HT40-High	 Ref 20 dBm *Att 30 dB Delta 1 [T1] 2.50 dB *RBW 100 kHz *VBW 300 kHz SWT 20 ms 35.68000000 MHz Marker 1 [T1] -9.15 dBm Marker 2 [T1] -6.80 dBm LVL 300 Center 5.795 GHz 8 MHz/ Span 80 MHz Date: 3.AUG.2026 18:16:02

99% Bandwidth
5150-5250MHz

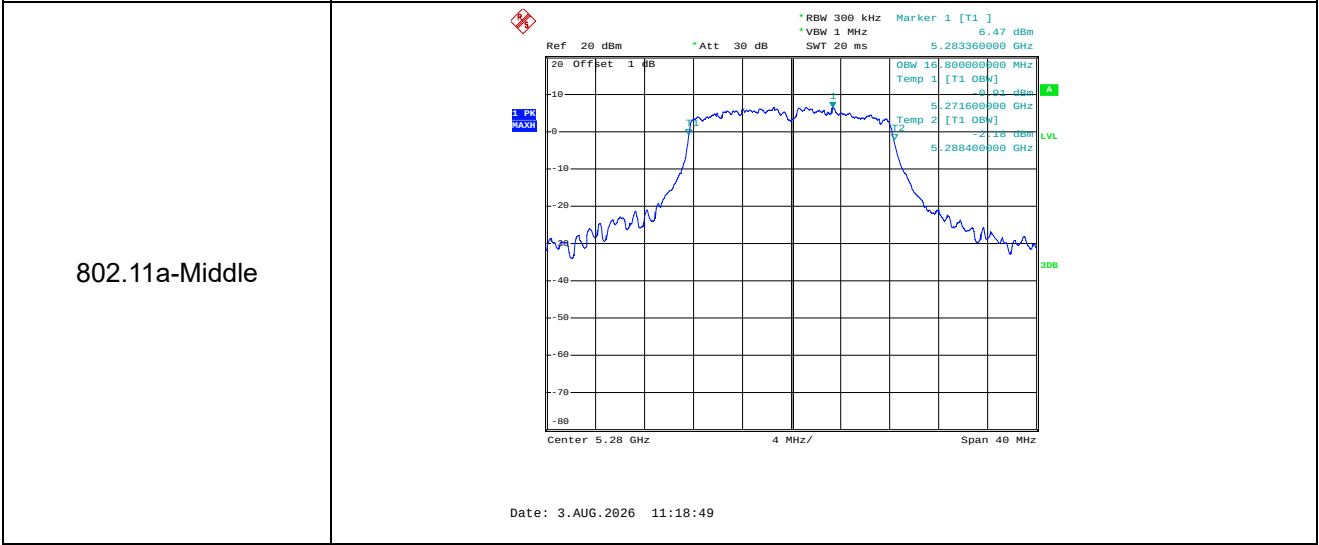
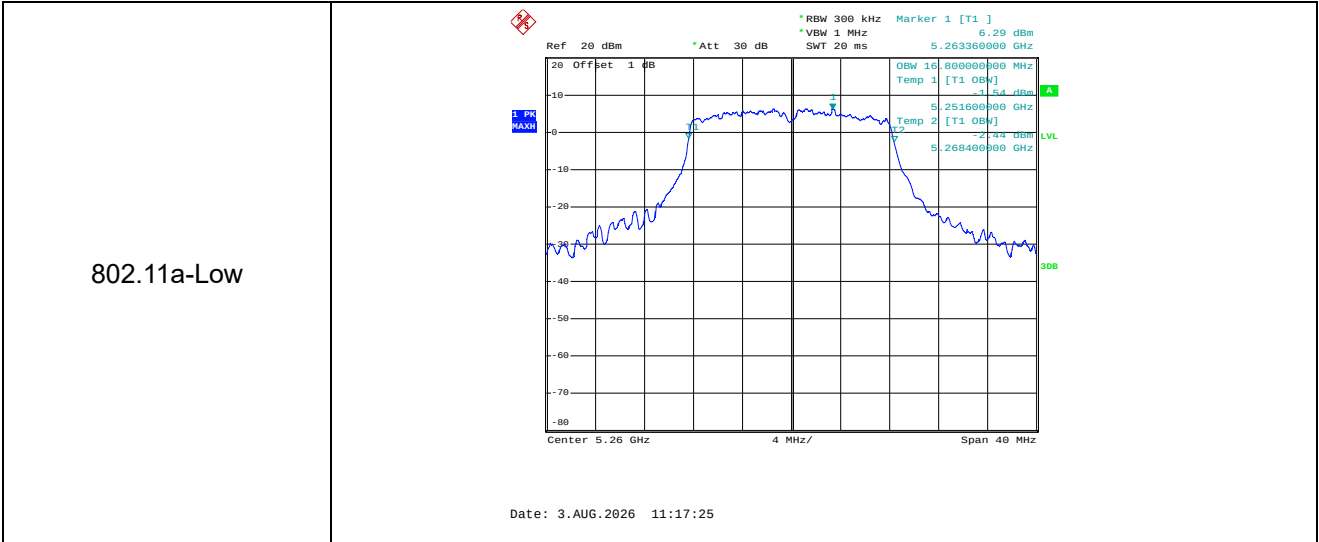
802.11a-Low	 Ref 20 dBm *Att 30 dB Delta 1 [T1] 5.23 dB *RBW 300 kHz *VBW 1 MHz SWT 20 ms 5.181200000 GHz Marker 1 [T1] -2.23 dBm OBW 16.00000000 MHz Temp 1 [T1 OBW] -2.23 dBm Temp 2 [T1 OBW] -4.04 dBm LVL 300 Center 5.18 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 09:52:52
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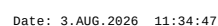
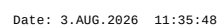
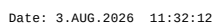
802.11a-Middle	RBW 300 kHz Marker 1 [T1] 4.96 dBm VBW 1 MHz SWT 20 ms 5.203360000 GHz Ref 20 dBm Att 30 dB 20 Offset 1 dB 1 PK MAX OBW 16.88000000 MHz Temp 1 [T1 OBW] -2.20 dBm 5.191600000 GHz Temp 2 [T1 OBW] -5.07 dBm 5.208400000 GHz Center 5.2 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 10:00:29
802.11a-High	RBW 300 kHz Marker 1 [T1] 5.53 dBm VBW 1 MHz SWT 20 ms 5.243360000 GHz Ref 20 dBm Att 30 dB 20 Offset 1 dB 1 PK MAX OBW 16.88000000 MHz Temp 1 [T1 OBW] -2.20 dBm 5.231600000 GHz Temp 2 [T1 OBW] -8.23 dBm 5.248400000 GHz Center 5.24 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 10:17:21
802.11n-HT20-Low	RBW 300 kHz Marker 1 [T1] 5.99 dBm VBW 1 MHz SWT 20 ms 5.179280000 GHz Ref 20 dBm Att 30 dB 20 Offset 1 dB 1 PK MAX OBW 17.84000000 MHz Temp 1 [T1 OBW] -0.18 dBm 5.171040000 GHz Temp 2 [T1 OBW] -1.97 dBm 5.188880000 GHz Center 5.18 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 10:28:01

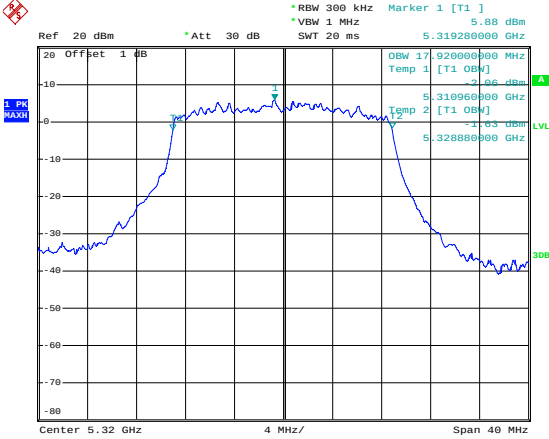
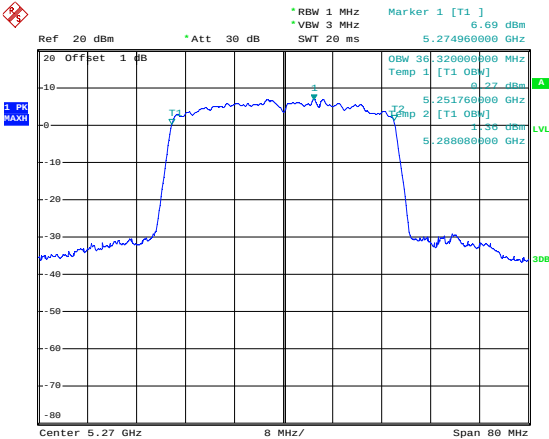
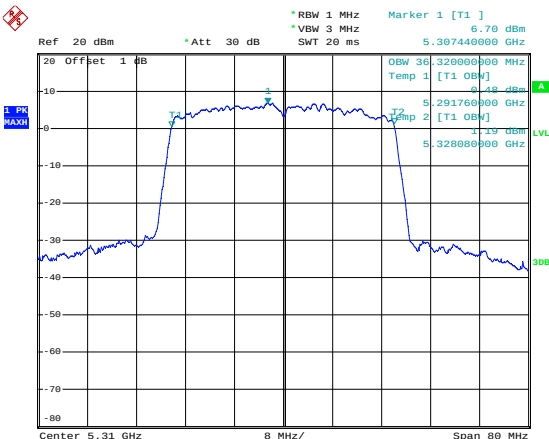




99% dB Bandwidth
5250-5350MHz

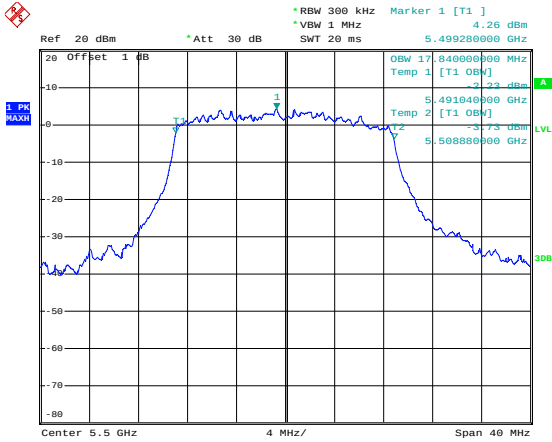
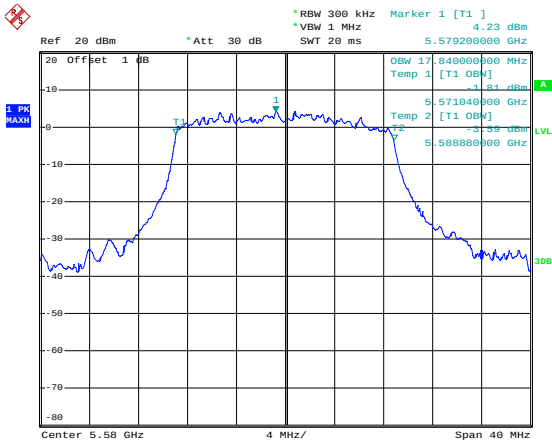
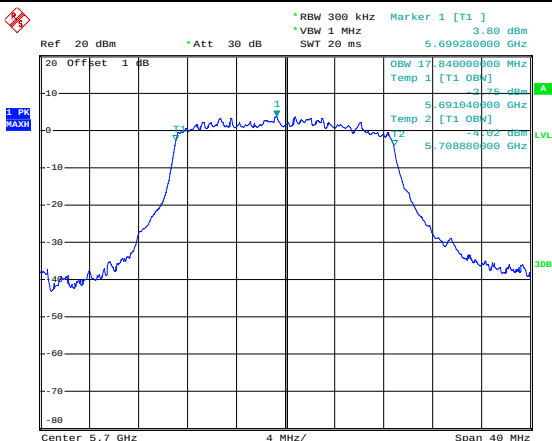




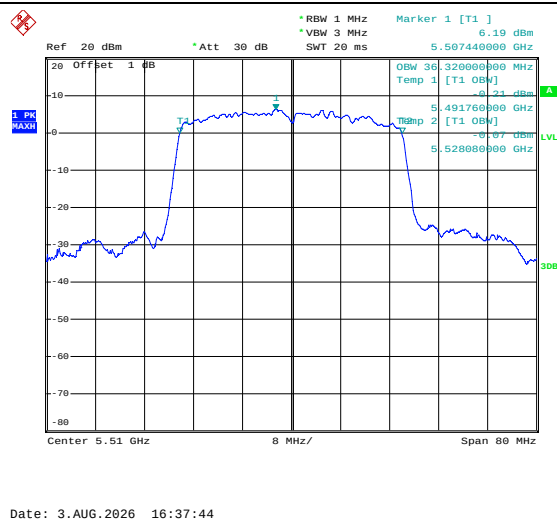
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802.11n-HT40-Low	 Date: 3.AUG.2026 11:37:31
802.11n-HT40-High	 Date: 3.AUG.2026 11:39:16

99%dB Bandwidth
5470-5725MHz

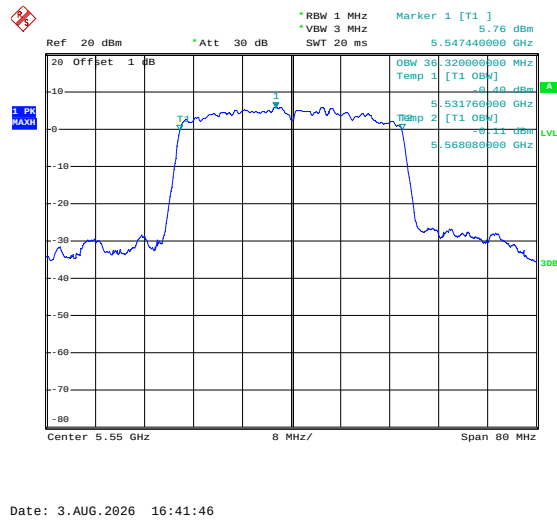
802.11a-Low	Date: 3.AUG.2026 15:36:15
802.11a-Middle	Date: 3.AUG.2026 16:32:50
802.11a-High	Date: 3.AUG.2026 16:31:18

802.11n-HT20-Low	 Ref 20 dBm *Att 30 dB RBW 300 kHz Marker 1 [T1] 4.26 dBm *VBW 1 MHz SWT 20 ms 5.499280000 GHz OBW 17.840000000 MHz Temp 1 [T1 OBW] -2.23 dBm 5.491040000 GHz Temp 2 [T1 OBW] -3.73 dBm 5.508880000 GHz Center 5.5 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 16:34:11
802.11n-HT20-Middle	 Ref 20 dBm *Att 30 dB RBW 300 kHz Marker 1 [T1] 4.23 dBm *VBW 1 MHz SWT 20 ms 5.579280000 GHz OBW 17.840000000 MHz Temp 1 [T1 OBW] -1.81 dBm 5.571040000 GHz Temp 2 [T1 OBW] -3.59 dBm 5.588880000 GHz Center 5.58 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 16:36:35
802.11n-HT20-High	 Ref 20 dBm *Att 30 dB RBW 300 kHz Marker 1 [T1] 3.80 dBm *VBW 1 MHz SWT 20 ms 5.699280000 GHz OBW 17.840000000 MHz Temp 1 [T1 OBW] -2.75 dBm 5.691040000 GHz Temp 2 [T1 OBW] -4.02 dBm 5.708880000 GHz Center 5.7 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 16:35:50

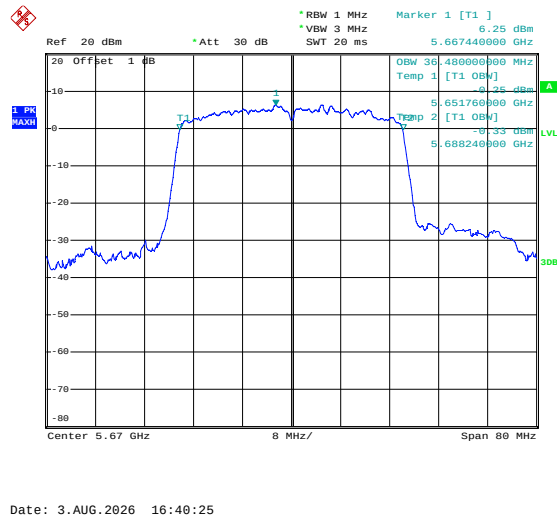
802.11n-HT40-Low



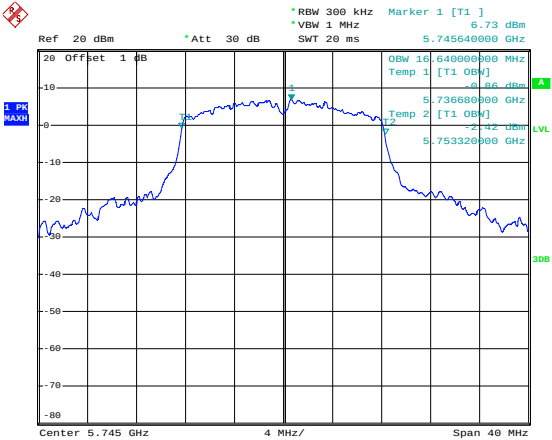
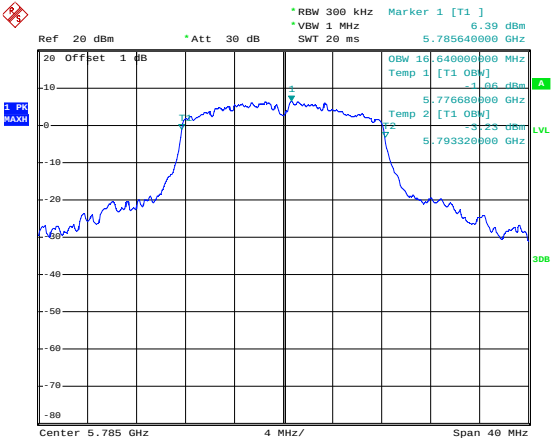
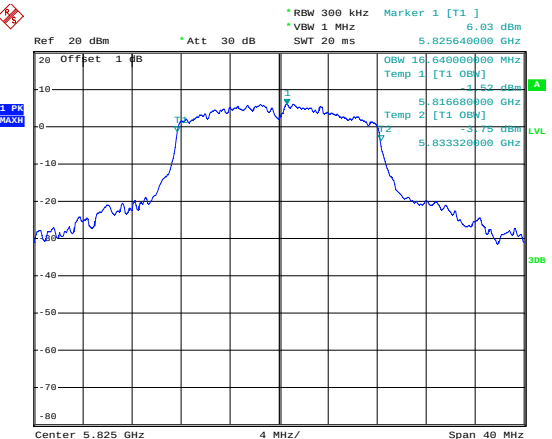
802.11n-HT40-Middle

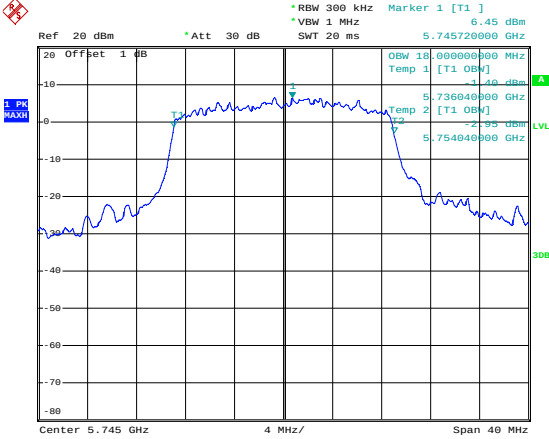
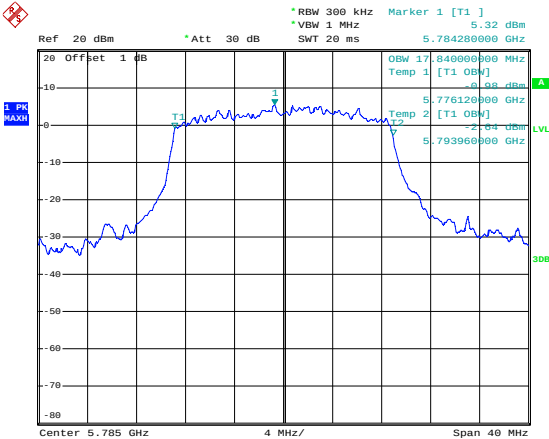
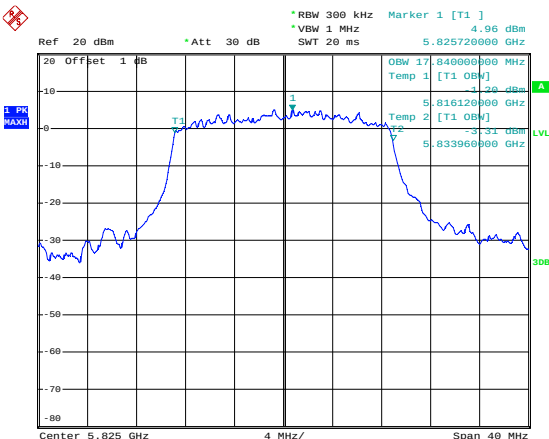


802.11n-HT40-High

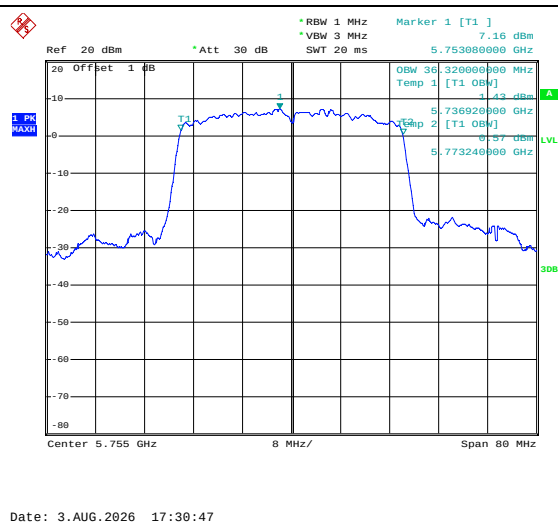


99% dB Bandwidth
5725-5850MHz

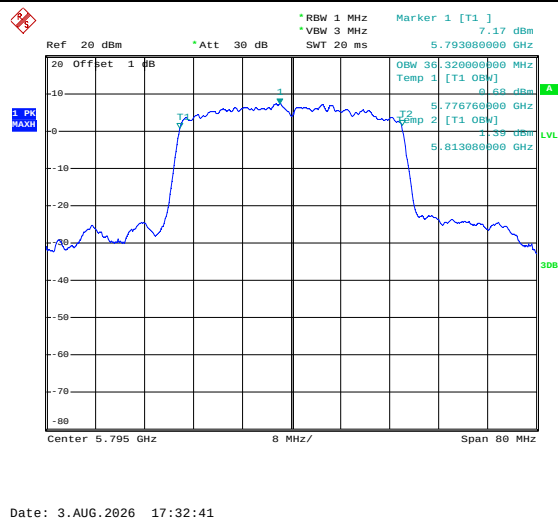
802.11a-Low	 Ref 20 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1] 6.73 dBm *VBW 1 MHz SWT 20 ms 5.745640000 GHz OBW 16.64000000 MHz Temp 1 [T1 OBW] -1.06 dBm 5.736680000 GHz Temp 2 [T1 OBW] -2.42 dBm 5.753320000 GHz Center 5.745 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 17:20:52
802.11a-Middle	 Ref 20 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1] 6.39 dBm *VBW 1 MHz SWT 20 ms 5.785640000 GHz OBW 16.64000000 MHz Temp 1 [T1 OBW] -1.06 dBm 5.776680000 GHz Temp 2 [T1 OBW] -3.23 dBm 5.793320000 GHz Center 5.785 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 17:22:24
802.11a-High	 Ref 20 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1] 6.03 dBm *VBW 1 MHz SWT 20 ms 5.825640000 GHz OBW 16.64000000 MHz Temp 1 [T1 OBW] -1.52 dBm 5.816680000 GHz Temp 2 [T1 OBW] -3.75 dBm 5.833320000 GHz Center 5.825 GHz 4 MHz/ Span 40 MHz Date: 3.AUG.2026 17:24:11

802.11n-HT20-Low	 Date: 3.AUG.2026 17:28:40
802.11n-HT20-Middle	 Date: 3.AUG.2026 17:26:59
802.11n-HT20-High	 Date: 3.AUG.2026 17:26:00

802.11n-HT40-Low



802.11n-HT40-High



APPENDIX C

Maximum Conducted Output Power

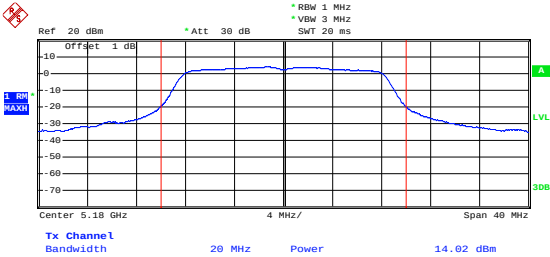
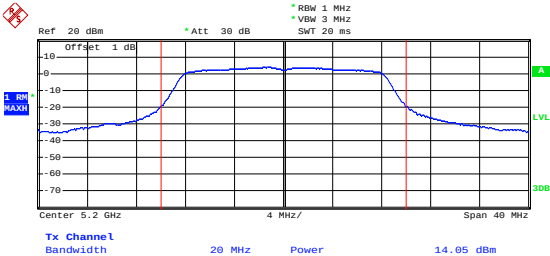
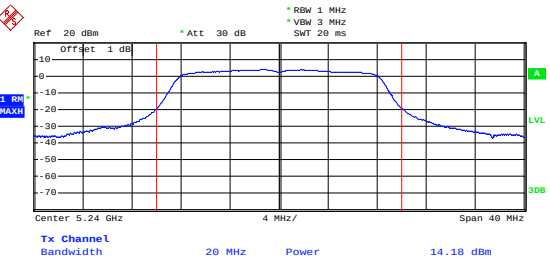
U-NII-1: 5150-5250MHz			
Test mode	Frequency MHz	Output Power dBm	Limit dBm
802.11a	5180	14.02	23.98
	5200	14.05	23.98
	5240	14.18	23.98
802.11n-HT20	5180	13.67	23.98
	5200	13.70	23.98
	5240	14.04	23.98
802.11n-HT40	5190	12.69	23.98
	5230	12.79	23.98

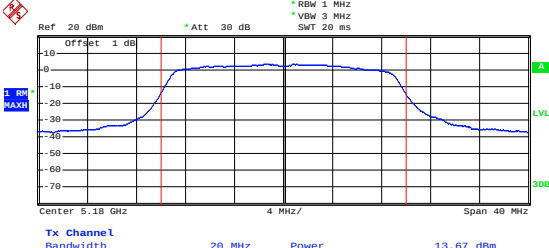
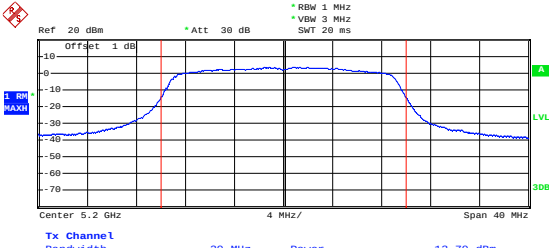
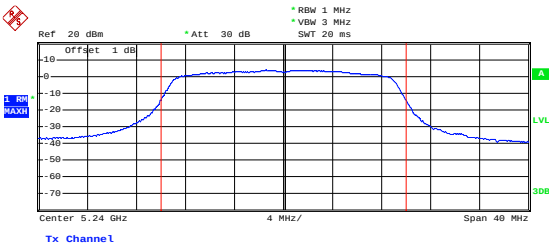
U-NII-2A: 5250-5350MHz			
Test mode	Frequency MHz	Output Power dBm	Limit dBm
802.11a	5260	14.93	23.98
	5280	15.12	23.98
	5320	14.84	23.98
802.11n-HT20	5260	13.64	23.98
	5280	13.96	23.98
	5320	13.73	23.98
802.11n-HT40	5270	12.51	23.98
	5310	12.61	23.98

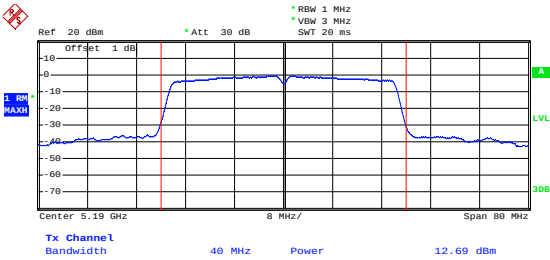
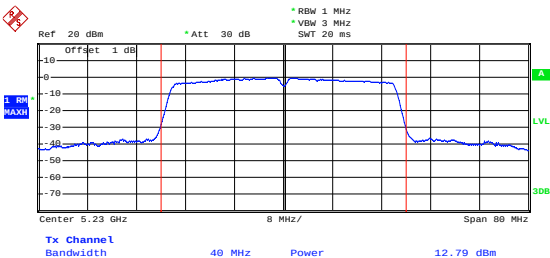
U-NII-2C: 5470-5725MHz			
Test mode	Frequency MHz	Output Power dBm	Limit dBm
802.11a	5500	14.63	23.98
	5600	13.76	23.98
	5700	14.59	23.98
802.11n-HT20	5500	13.11	23.98
	5600	13.25	23.98
	5700	13.04	23.98
802.11n-HT40	5510	11.95	23.98
	5590	11.55	23.98
	5670	11.87	23.98

U-NII-3: 5725-5850MHz			
Test mode	Frequency MHz	Output Power dBm	Limit dBm
802.11a	5745	14.79	30.00
	5785	14.48	30.00
	5825	14.12	30.00
802.11n-HT20	5745	13.47	30.00
	5785	13.16	30.00
	5825	13.91	30.00
802.11n-HT40	5755	12.78	30.00
	5795	12.80	30.00

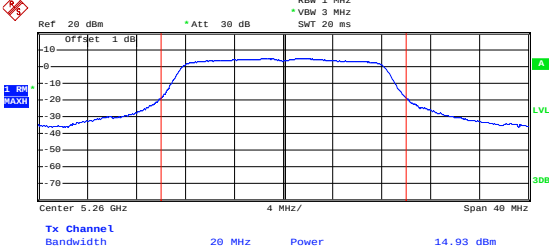
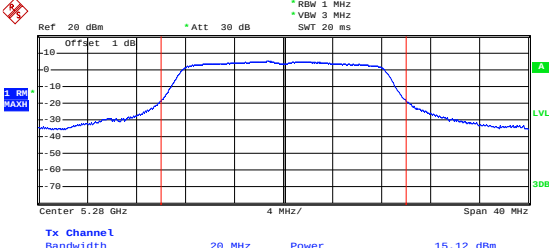
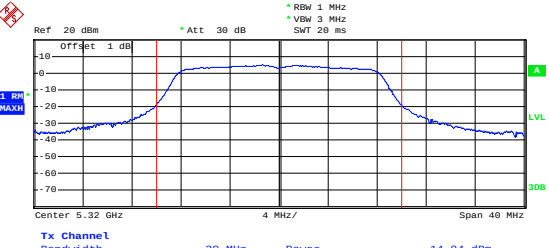
5150-5250MHz

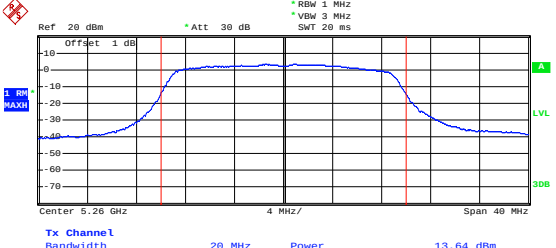
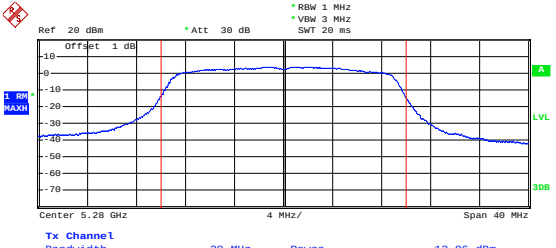
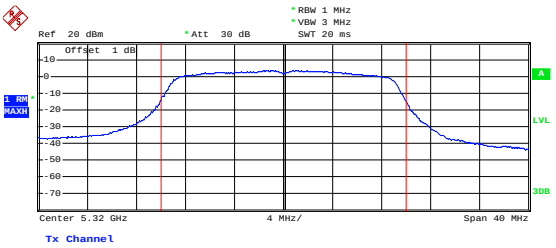
802.11a-Low	 Ref 20 dBm * Att 30 dB RBW 1 MHz Offset 1 dB VBW 3 MHz SWT 20 ms Center 5.18 GHz 4 MHz/ Span 40 MHz Tx Channel Bandwidth 20 MHz Power 14.02 dBm Date: 3.AUG.2026 08:57:52
802.11a-Middle	 Ref 20 dBm * Att 30 dB RBW 1 MHz Offset 1 dB VBW 3 MHz SWT 20 ms Center 5.2 GHz 4 MHz/ Span 40 MHz Tx Channel Bandwidth 20 MHz Power 14.05 dBm Date: 3.AUG.2026 09:29:35
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 14.18 dBm Date: 3.AUG.2026 09:30:08

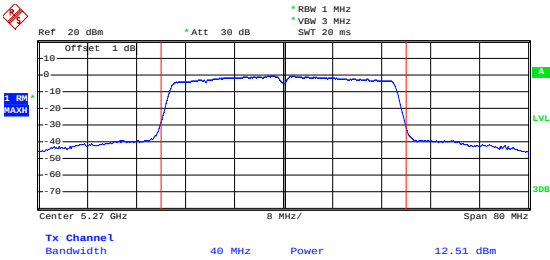
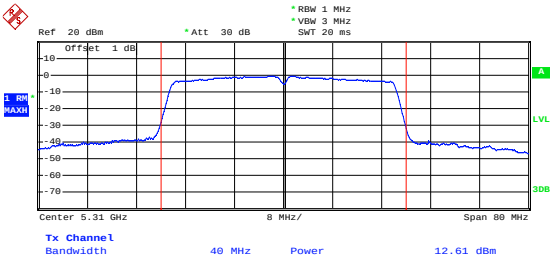
802.11n-HT20-Low	 Ref 20 dBm * Att 30 dB RBW 1 MHz Offset 1 dB VBW 3 MHz SMT 20 ms Center 5.18 GHz 4 MHz/ Span 40 MHz Tx Channel Bandwidth 20 MHz Power 13.67 dBm Date: 3.AUG.2026 09:32:29
802.11n-HT20-Middle	 Ref 20 dBm * Att 30 dB RBW 1 MHz Offset 1 dB VBW 3 MHz SMT 20 ms Center 5.2 GHz 4 MHz/ Span 40 MHz Tx Channel Bandwidth 20 MHz Power 13.78 dBm Date: 3.AUG.2026 09:33:20
802.11n-HT20-High	 Ref 20 dBm * Att 30 dB RBW 1 MHz Offset 1 dB VBW 3 MHz SMT 20 ms Center 5.24 GHz 4 MHz/ Span 40 MHz Tx Channel Bandwidth 20 MHz Power 14.04 dBm Date: 3.AUG.2026 09:33:46

802.11n-HT40-Low	 Ref 20 dBm * Att 30 dB * RBW 1 MHz Offset 1 dB * VBW 3 MHz * SWT 20 ms Center 5.19 GHz 8 MHz/ Span 80 MHz Tx Channel Bandwidth 40 MHz Power 12.69 dBm Date: 3.AUG.2026 09:34:45
802.11n-HT40-High	 Ref 20 dBm * Att 30 dB * RBW 1 MHz Offset 1 dB * VBW 3 MHz * SWT 20 ms Center 5.23 GHz 8 MHz/ Span 80 MHz Tx Channel Bandwidth 40 MHz Power 12.79 dBm Date: 3.AUG.2026 09:35:42

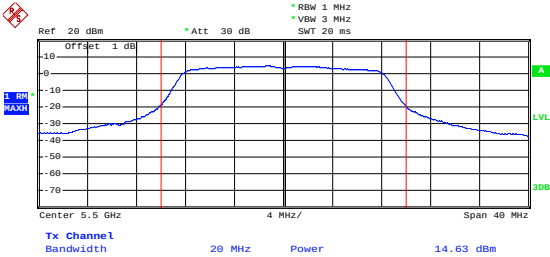
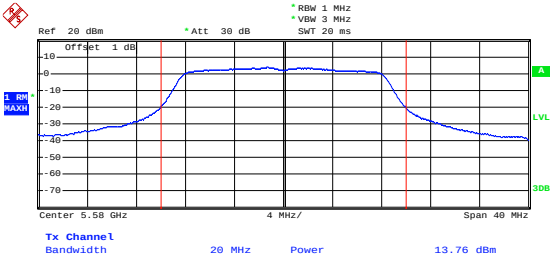
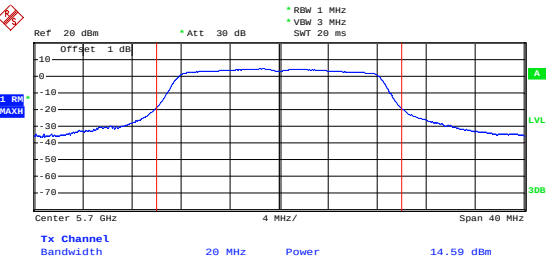
5250-5350MHz

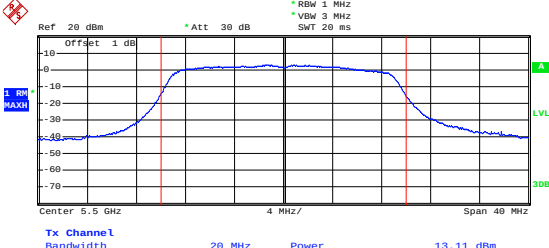
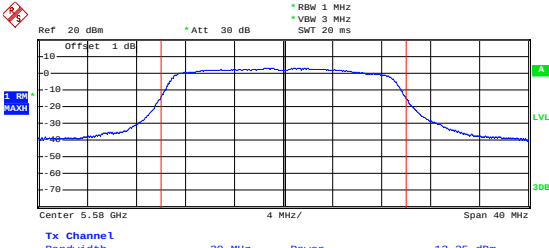
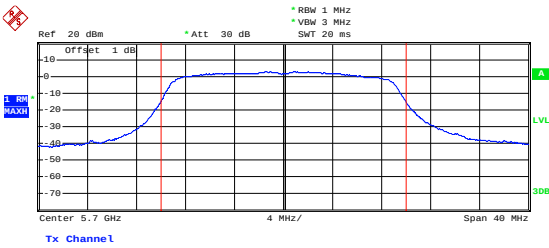
802.11a-Low	 Date: 3.AUG.2026 11:05:58
802.11a-Middle	 Date: 3.AUG.2026 11:06:56
802.11a-High	 Date: 3.AUG.2026 11:07:24

802.11n-HT20-Low	 Date: 3.AUG.2026 11:08:56
802.11n-HT20-Middle	 Date: 3.AUG.2026 11:08:31
802.11n-HT20-High	 Date: 3.AUG.2026 11:08:00

802.11n-HT40-Low	 Ref: 20 dBm, Offset: 1 dB, Att: 30 dB, RBW: 1 MHz, VBW: 3 MHz, SWT: 20 ms Center: 5.27 GHz, Span: 80 MHz Tx Channel, Bandwidth: 40 MHz, Power: 12.51 dBm Date: 3.AUG.2026 11:09:52
802.11n-HT40-High	 Ref: 20 dBm, Offset: 1 dB, Att: 30 dB, RBW: 1 MHz, VBW: 3 MHz, SWT: 20 ms Center: 5.31 GHz, Span: 80 MHz Tx Channel, Bandwidth: 40 MHz, Power: 12.61 dBm Date: 3.AUG.2026 11:11:08

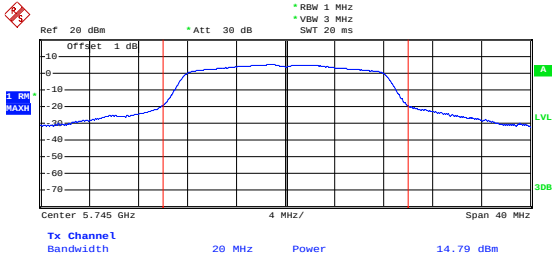
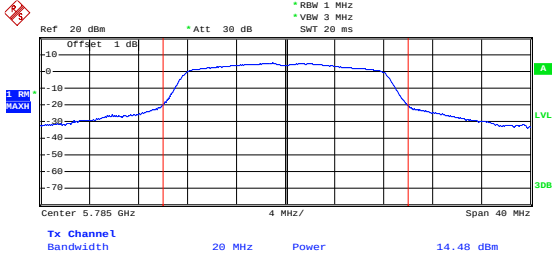
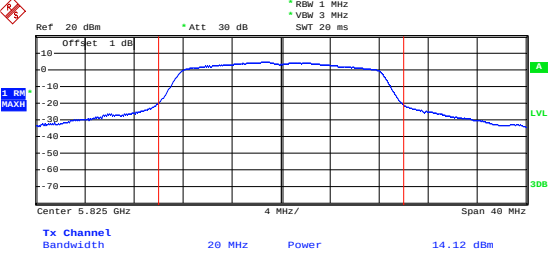
5470-5725MHz

802.11a-Low	 Ref: 20 dBm * Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Offset: 1 dB Center: 5.5 GHz 4 MHz/ Span: 40 MHz Tx Channel Bandwidth: 20 MHz Power: 14.63 dBm Date: 3.AUG.2026 14:08:23
802.11a-Middle	 Ref: 20 dBm * Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Offset: 1 dB Center: 5.58 GHz 4 MHz/ Span: 40 MHz Tx Channel Bandwidth: 20 MHz Power: 13.76 dBm Date: 3.AUG.2026 14:10:56
802.11a-High	 Ref: 20 dBm * Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Offset: 1 dB Center: 5.7 GHz 4 MHz/ Span: 40 MHz Tx Channel Bandwidth: 20 MHz Power: 14.59 dBm Date: 3.AUG.2026 14:09:37

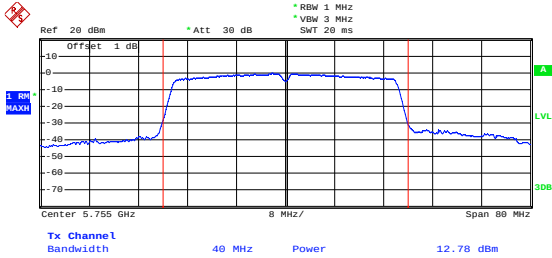
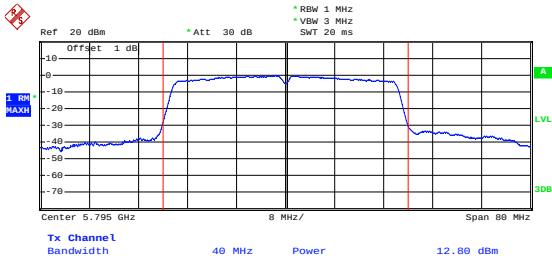
802.11n-HT20-Low	 Ref 20 dBm *Att 30 dB *RBW 1 MHz *VBW 3 MHz SWT 20 ms Offset 1 dB Center 5.5 GHz 4 MHz/ Span 40 MHz Tx Channel Bandwidth 20 MHz Power 13.11 dBm 1 RBW MAX A LVL 30B Date: 3.AUG.2026 14:12:55
802.11n-HT20-Middle	 Ref 20 dBm *Att 30 dB *RBW 1 MHz *VBW 3 MHz SWT 20 ms Offset 1 dB Center 5.58 GHz 4 MHz/ Span 40 MHz Tx Channel Bandwidth 20 MHz Power 13.25 dBm 1 RBW MAX A LVL 30B Date: 3.AUG.2026 14:12:12
802.11n-HT20-High	 Ref 20 dBm *Att 30 dB *RBW 1 MHz *VBW 3 MHz SWT 20 ms Offset 1 dB Center 5.7 GHz 4 MHz/ Span 40 MHz Tx Channel Bandwidth 20 MHz Power 13.04 dBm 1 RBW MAX A LVL 30B Date: 3.AUG.2026 14:17:28

802.11n-HT40-Low	Date: 3.AUG.2026 15:20:15
802.11n-HT40-Middle	Date: 3.AUG.2026 15:22:37
802.11n-HT40-High	Date: 3.AUG.2026 15:21:57

5725-5850MHz

802.11a-Low	 Date: 3.AUG.2026 16:58:09
802.11a-Middle	 Date: 3.AUG.2026 16:58:37
802.11a-High	 Date: 3.AUG.2026 16:59:06

802.11n-HT20-Low	Date: 3.AUG.2026 17:01:39
802.11n-HT20-Middle	Date: 3.AUG.2026 17:01:08
802.11n-HT20-High	Date: 3.AUG.2026 17:00:25

802.11n-HT40-Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms 1. RBW MAX Center: 5.755 GHz Span: 80 MHz 8 MHz/ Tx Channel 1 Bandwidth: 40 MHz Power: 12.78 dBm Grid lines: -10, -20, -30, -40, -50, -60, -70 dBm Labels: A, LVL, 30dB Date: 3.AUG.2026 17:02:34
802.11n-HT40-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms 1. RBW MAX Center: 5.795 GHz Span: 80 MHz 8 MHz/ Tx Channel 1 Bandwidth: 40 MHz Power: 12.88 dBm Grid lines: -10, -20, -30, -40, -50, -60, -70 dBm Labels: A, LVL, 30dB Date: 3.AUG.2026 17:03:10

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	502	0.097
100%		-20	499	0.096
100%		-10	504	0.097
100%		0	504	0.097
100%		+10	501	0.096
100%		+20	498	0.096
100%		+30	498	0.096
100%		+40	503	0.097
100%		+50	504	0.097
Low Battery power	5.50	+20	505	0.097
High Battery power	4.50	+20	502	0.097

U-NII-1: 5250-5350MHz worst case at 802.11a middle channel				
Voltage(%)	Power(VDC)	TEMP(°C)	Freq.Dev(Hz)	Deviation
100%	5.0	-30	499	0.095
100%		-20	495	0.094
100%		-10	500	0.095
100%		0	502	0.095
100%		+10	500	0.095
100%		+20	503	0.095
100%		+30	496	0.094
100%		+40	502	0.095
100%		+50	501	0.095
Low Battery power	5.50	+20	504	0.095
High Battery power	4.50	+20	497	0.094

U-NII-1: 5470-5725MHz worst case at 802.11a middle channel				
Voltage(%)	Power(VDC)	TEMP(°C)	Freq.Dev(Hz)	Deviation
100%	5.0	-30	503	0.090
100%		-20	499	0.089
100%		-10	496	0.089
100%		0	498	0.089
100%		+10	502	0.090
100%		+20	503	0.090
100%		+30	498	0.089
100%		+40	498	0.089
100%		+50	504	0.090
Low Battery power	5.50	+20	500	0.089
High Battery power	4.50	+20	503	0.090

U-NII-1:5725-5850MHz worst case at 802.11a middle channel				
Voltage(%)	Power(VDC)	TEMP(°C)	Freq.Dev(Hz)	Deviation
100%	5.0	-30	495	0.086
100%		-20	498	0.086
100%		-10	504	0.087
100%		0	504	0.087
100%		+10	504	0.087
100%		+20	501	0.087
100%		+30	501	0.087
100%		+40	501	0.087
100%		+50	497	0.086
Low Battery power	5.50	+20	501	0.087
High Battery power	4.50	+20	496	0.086

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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