

TEST REPORT

Reference No...... : WTX22X05104028W001
FCC ID : 2A7LU-MSR-W6-V1
Applicant : IoT Security Group, SL
Address..... : Calle Pez Dorado, 27, local 2 29620 Torremolinos Malaga, Spain
Manufacturer : The same as Applicant
Address..... : The same as Applicant
Product Name : MSR-W6
Model No...... : MSR-W6-V1
Standards : FCC Part 15.407
Date of Receipt sample : 2022-05-25
Date of Test..... : 2022-05-25 to 2022-06-29
Date of Issue : 2022-06-29
Test Report Form No. : WTX_Part 15_407W
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

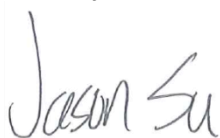
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TABLE OF CONTENTS

1. GENERAL INFORMATION	5
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	5
1.2 TEST STANDARDS.....	6
1.3 TEST METHODOLOGY	6
1.4 TABLE FOR PARAMETERS OF TEST SOFTWARE SETTING	6
1.5 EUT OPERATING DURING TEST	8
1.6 TEST FACILITY	8
1.7 EUT SETUP AND TEST MODE.....	9
1.8 MEASUREMENT UNCERTAINTY	10
1.9 TEST EQUIPMENT LIST AND DETAILS	11
2. SUMMARY OF TEST RESULTS	13
3. ANTENNA REQUIREMENT	14
3.1 STANDARD APPLICABLE.....	14
3.2 EVALUATION INFORMATION.....	14
4. AUTOMATICALLY DISCONTINUE TRANSMISSION	15
4.1 STANDARD APPLICABLE.....	15
4.2 SUMMARY OF TEST RESULTS	15
5. POWER SPECTRAL DENSITY	16
5.1 STANDARD APPLICABLE.....	16
5.2 TEST PROCEDURE.....	16
5.3 SUMMARY OF TEST RESULTS/PLOTS	17
6. EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH.....	18
6.1 STANDARD APPLICABLE.....	18
6.2 TEST PROCEDURE.....	18
6.3 SUMMARY OF TEST RESULTS/PLOTS	20
7. MAXIMUM CONDUCTED OUTPUT POWER.....	21
7.1 STANDARD APPLICABLE.....	21
7.2 TEST PROCEDURE.....	22
7.3 SUMMARY OF TEST RESULTS/PLOTS	23
8. RADIATED SPURIOUS EMISSIONS.....	24
8.1 STANDARD APPLICABLE.....	24
8.2 TEST PROCEDURE.....	24
8.3 TEST RECEIVER SETUP	26
8.4 CORRECTED AMPLITUDE & MARGIN CALCULATION.....	26
8.5 SUMMARY OF TEST RESULTS/PLOTS	27
9. FREQUENCY STABILITY	136
9.1 STANDARD APPLICABLE.....	136
9.2 TEST PROCEDURE.....	136
9.3 SUMMARY OF TEST RESULTS/PLOTS	136
10 CONDUCTED EMISSIONS	137
10.1 TEST PROCEDURE.....	137
10.2 BASIC TEST SETUP BLOCK DIAGRAM.....	137
10.3 TEST RECEIVER SETUP	137
10.4 SUMMARY OF TEST RESULTS/PLOTS	137
APPENDIX SUMMARY	140
APPENDIX A.....	141
APPENDIX B.....	163
APPENDIX C.....	195
APPENDIX D.....	216

APPENDIX PHOTOGRAPHS.....217

Report version

Version No.	Date of issue	Description
Rev.00	2022-06-29	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	MSR-W6
Trade Name:	/
Model No.:	MSR-W6-V1
Adding Model(s):	/
Rated Voltage:	AC120V
Battery Capacity:	/
Power Adapter 1#:	MODEL: DSA-18PFCA-09 INPUT:AC100-240V~50/60Hz 0.6A OUTPUT:DC12V,1.5A
Power Adapter 2#:	MODEL:AMS200-1201500F INPUT:AC100-240V~50/60Hz 0.8A OUTPUT:DC12V,1.5A
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11a, 802.11n(HT20), 802.11n-HT40, 802.11ax-HE20, 802.11ax-HE40,802.11ac-VHT80, 802.11ax-HE80
Frequency Range:	5150-5250MHz, 5725-5850MHz
RF Output Power:	5150-5250MHz: Antenna 0 : 14.70dBm (Conducted) Antenna 1 : 15.87dBm (Conducted) 5725-5850MHz: Antenna 0 : 15.44dBm (Conducted) Antenna 1 : 16.56dBm (Conducted)
Type of Modulation:	QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Type of Antenna:	External Antenna
Antenna Gain:	5dBi
<i>Note: The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.407: General technical requirements.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

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

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

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

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB789033 D02 v02r01. The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Table for parameters of Test Software setting

Use “QSPR.exe” and follow the instructions given by the manufacturer, you can start to test. During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. Test use the customer default power level, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Mode	Ant.	Test Frequency (MHz)												
		NCB: 20MHz												
		5180	5200	5240	5260	5300	5320	5500	5580	5700	5720	5745	5785	5825
802.11a 6Mbps	ANT 0	17	17	17	/	/	/	/	/	/	/	17	17	17
	ANT 1	17	17	17	/	/	/	/	/	/	/	17	17	17
802.11n-HT20 MCS0	ANT 0	16	16	16	/	/	/	/	/	/	/	16	16	16
	ANT 1	16	16	16	/	/	/	/	/	/	/	16	16	16
802.11ax-HE20 MCS0	ANT 0	16	16	16	/	/	/	/	/	/	/	16	16	16
	ANT 1	16	16	16	/	/	/	/	/	/	/	16	16	16
Mode	Ant.	NCB: 40MHz												
		5190	5230	5270	5310	5510	5550	5670	5710	5755	5795			
802.11n-HT40 MCS0	ANT 0	15	15	/	/	/	/	/	/	15	15			
	ANT 1	15	15	/	/	/	/	/	/	15	15			
802.11ax-HE40 MCS0	ANT 0	15	15	/	/	/	/	/	/	15	15			
	ANT 1	15	15	/	/	/	/	/	/	15	15			

Reference No.: WTX22X05104028W001

Mode	Ant.	NCB: 80MHz					
		5210	5290	5530	5610	5690	5775
802.11ac-VH80	ANT 0	14	/	/	/	/	14
MCS0	ANT 1	14	/	/	/	/	14
802.11ax-VE80	ANT 0	14	/	/	/	/	14
MCS0	ANT 1	14	/	/	/	/	14

1.5 EUT Operating during test

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

1.6 Test Facility

Address of the test laboratory

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

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

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

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

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, 5745MHz, 5785MHz,5825MHz
TM2	802.11n-HT20	5180MHz,5200MHz,5240MHz, 5745MHz, 5785MHz,5825MHz
TM3	802.11ax-HE20	5180MHz,5200MHz,5240MHz, 5745MHz, 5785MHz,5825MHz
TM4	802.11n-HT40	5190MHz,5230MHz, 5755MHz,5795MHz
TM5	802.11ax-HE40	5190MHz,5230MHz, 5755MHz,5795MHz
TM6	802.11ac-VH80	5210MHz, 5775 MHz
TM7	802.11ax-HE80	5210MHz, 5775 MHz
Note 1: All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report; 802.11ac-VHT20, 802.11ac-VHT40 covered by 802.11n-HT20 and 802.11n-HT40. Note 2: The 5GHz WIFI has two antennas and support Multiple Outputs for 802.11n/ac/ax mode for this report; Antenna 0 Gain is 5.0dBi; Ant 1 Gain is 5.0dBi; For this function is belong to Correlated Categorization equipment According to KDB 662911, for Unequal antenna gains. Directional gain = GANT + 10 log(NANT) dBi = 5.0 + 10log(2) dBi = 8.0 dBi Note 3: 802.11ax resource unit (RU) support: only Full RU configuration are supported.		

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
DC Cable	1.2	Unshielded	Without Ferrite
RJ45 Cable	0.79	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
RJ45	1.8	Unshielded	Without Ferrite

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
Notebook	Lenovo	TianYi310-14ISK	/

1.8 Measurement Uncertainty

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

1.9 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2022-03-22	2023-03-21
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2022-03-22	2023-03-21
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2022-03-25	2023-03-24
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2022-03-22	2023-03-21
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2022-03-22	2023-03-21
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2022-03-22	2023-03-21
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2022-03-22	2023-03-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	/	/
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	/	/
SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/
☒ Chamber A: Below 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-22	2023-03-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2022-01-07	2023-01-06
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2023-03-19
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-20	2023-03-19
☒ Chamber A: Above 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-22	2023-03-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2022-03-22	2023-03-21
SEMT-1042	Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2021-04-27	2023-04-26
SEMT-1216	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2022-03-25	2023-03-24

SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2022-03-22	2023-03-21
☐ Chamber B:Below 1GHz						
SEMT-1068	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2023-04-08
SEMT-1067	Amplifier	Agilent	8447D	2944A10179	2022-03-22	2023-03-21
SEMT-1066	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2022-03-22	2023-03-21
☐ Chamber C:Below 1GHz						
SEMT-1319	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2022-01-07	2023-01-06
SEMT-1343	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2023-05-27
SEMT-1333	Amplifier	HP	8447F	2944A03869	2022-03-22	2023-03-21
☒ Conducted Room 1#						
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2022-03-21	2023-03-20
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2022-03-25	2023-03-24
SEMT-1003	AC LISN	Schwarz beck	NSLK8126	8126-224	2022-03-22	2023-03-21
☐ Conducted Room 2#						
SEMT-1334	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2022-03-22	2023-03-21
SEMT-1336	LISN	Rohde & Schwarz	ENV 216	100097	2022-03-22	2023-03-21

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

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

2. SUMMARY OF TEST RESULTS

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

N/A: Not applicable.

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Evaluation Information

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

4. Automatically Discontinue Transmission

4.1 Standard Applicable

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

4.2 Summary of Test Results

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

5. Power Spectral Density

5.1 Standard Applicable

Section 15.407(a) Power limits:

(1) For the band 5.15-5.25GHz.

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

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

(3) For the band 5.725-5.85GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30dBm in any 500kHz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

5.2 Test Procedure

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

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

measurements are performed using a reduced resolution bandwidth (< 1 MHz, or $< 500\text{kHz}$) 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.1.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 1MHz, 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 6dBi. In addition, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

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

(3) For the band 5.725-5.85GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30dBm in any 500kHz band. If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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

6.2 Test Procedure

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

1. Emission Bandwidth (EBW)

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.

- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

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

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

- a) Set RBW = 100kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

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

D. 99 Percent Occupied Bandwidth

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

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

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1 % to 5 % of the OBW
- 4. Set VBW $\geq 3 * \text{RBW}$
- 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. 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.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm 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 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm 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 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, 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 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. 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.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm 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 6 dBi.

(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 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

Reference No.: WTX22X05104028W001

7.3 Summary of Test Results/Plots

Please refer to Appendix C

8. Radiated Spurious Emissions

8.1 Standard Applicable

According to §15.407(b), undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25GHz band: All emissions outside of the 5.15-5.35GHz band shall not exceed an e.i.r.p. of -27dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35GHz band: All emissions outside of the 5.15-5.35GHz band shall not exceed an e.i.r.p. of -27dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725GHz band: All emissions outside of the 5.47-5.725GHz band shall not exceed an e.i.r.p. of -27dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85GHz band:
 - (i) All emissions shall be limited to a level of -27dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10dBm/MHz at 25MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6dBm/MHz at 5MHz above or below the band edge, and from 5MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

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

According to §15.407(b)(7), The provisions of §15.205 apply to intentional radiators operating under this section. 789033 D02 v02r01 General UNII Test Procedures New Rules v01

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

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

where:

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

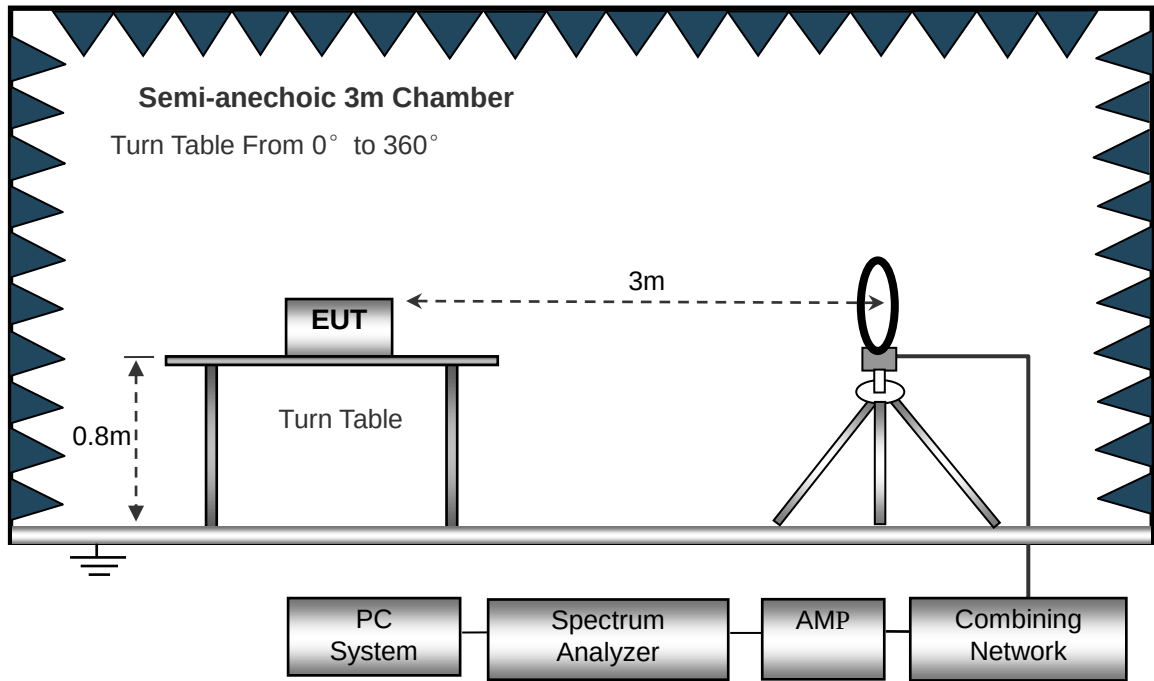
8.2 Test Procedure

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

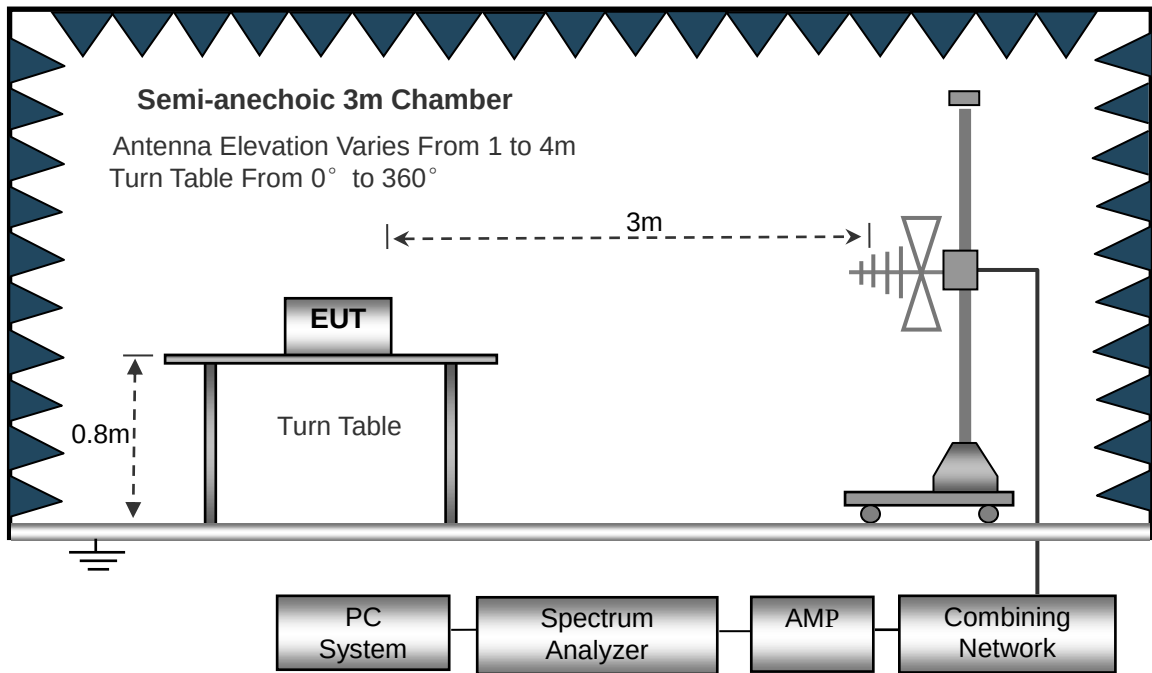
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

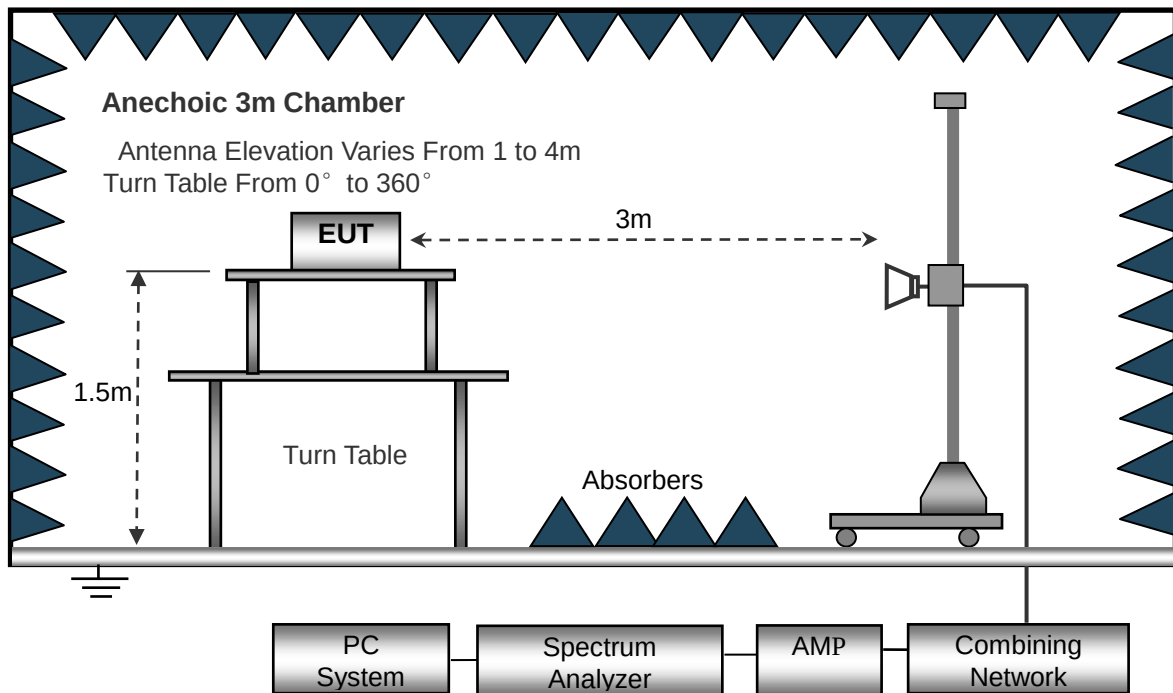
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1GHz.



8.3 Test Receiver Setup

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

For peak detector:

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

For average detector:

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

8.4 Corrected Amplitude & Margin Calculation

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

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

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

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

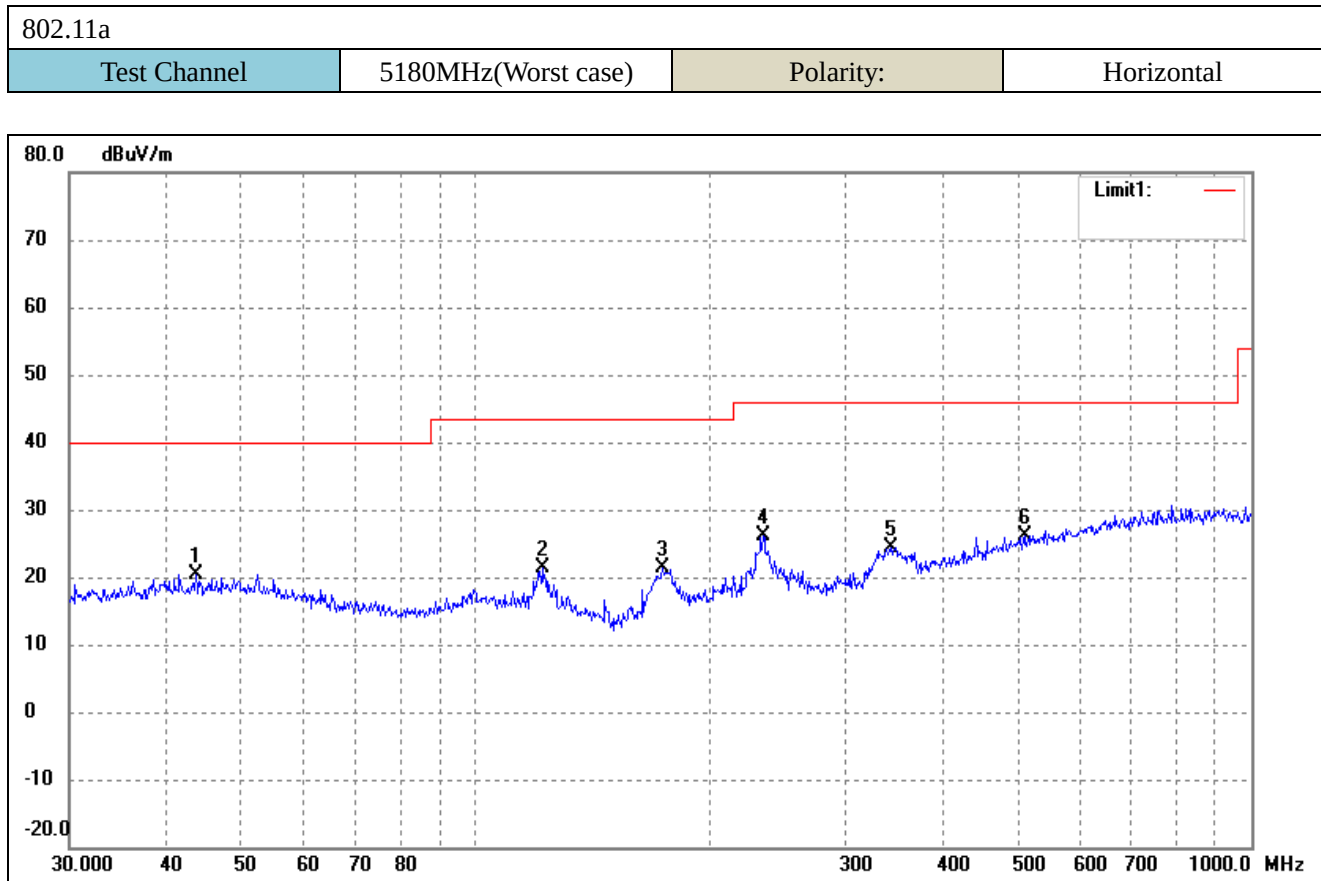
8.5 Summary of Test Results/Plots

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

➤ Spurious Emission From 30MHz to 1GHz

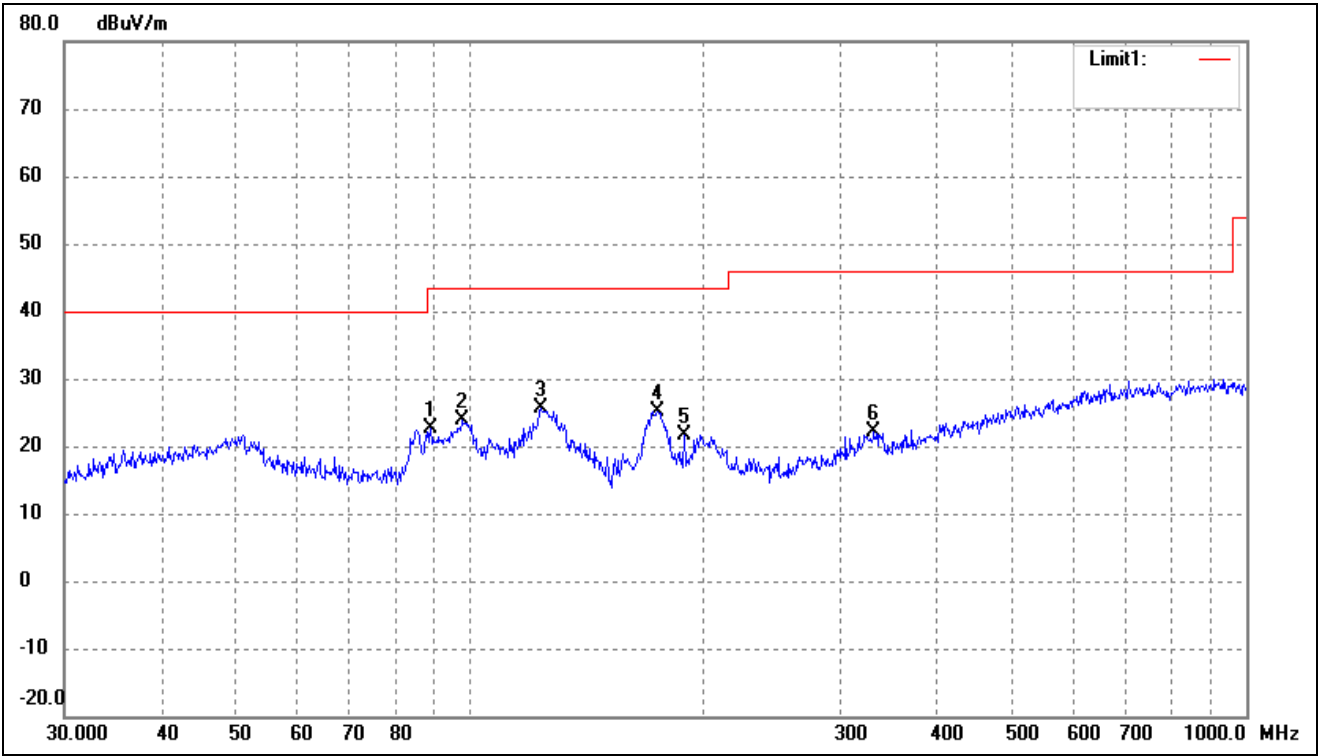
➤ Antenna 0

➤ 5150-5250MHz



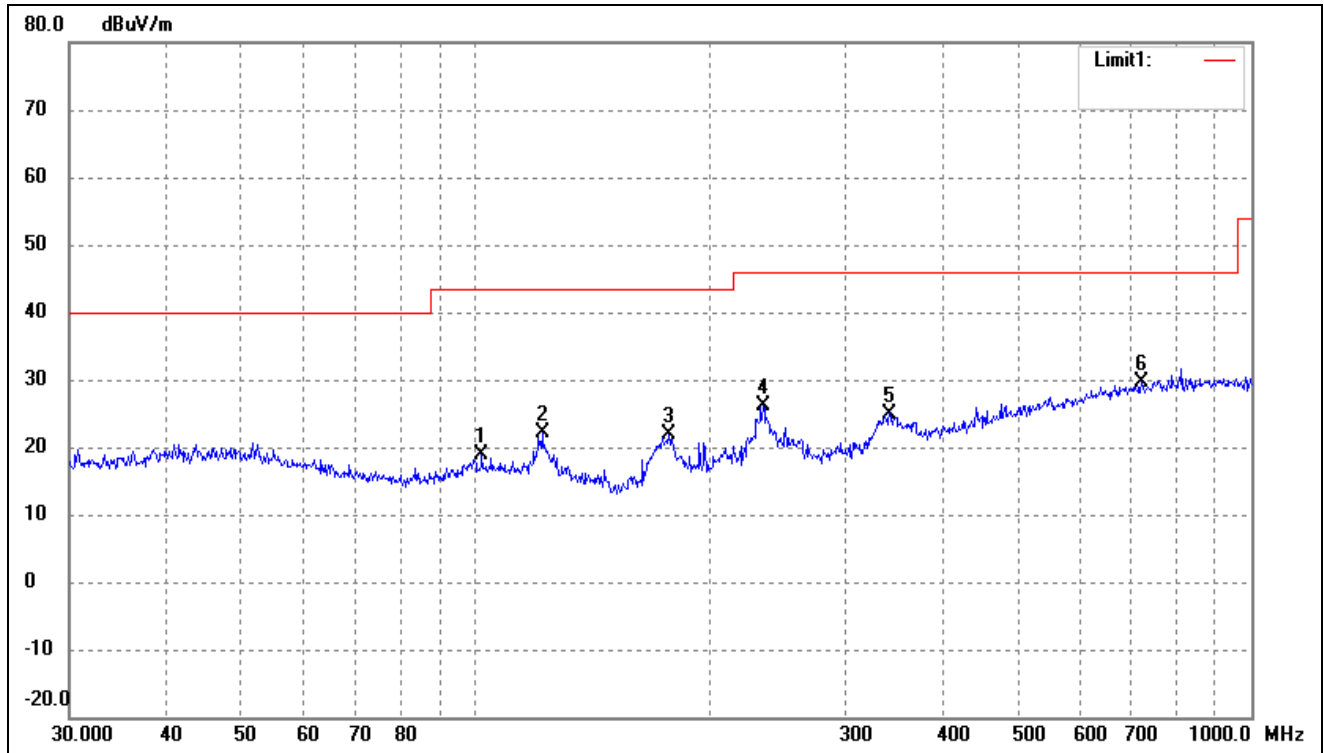
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	43.6585	27.30	-6.99	20.31	40.00	-19.69	-	-	peak
2	121.9755	31.30	-9.96	21.34	43.50	-22.16	-	-	peak
3	174.4241	32.79	-11.53	21.26	43.50	-22.24	-	-	peak
4	234.9909	34.97	-8.74	26.23	46.00	-19.77	-	-	peak
5	343.1800	29.94	-5.62	24.32	46.00	-21.68	-	-	peak
6	511.8352	27.31	-1.11	26.20	46.00	-19.80	-	-	peak

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



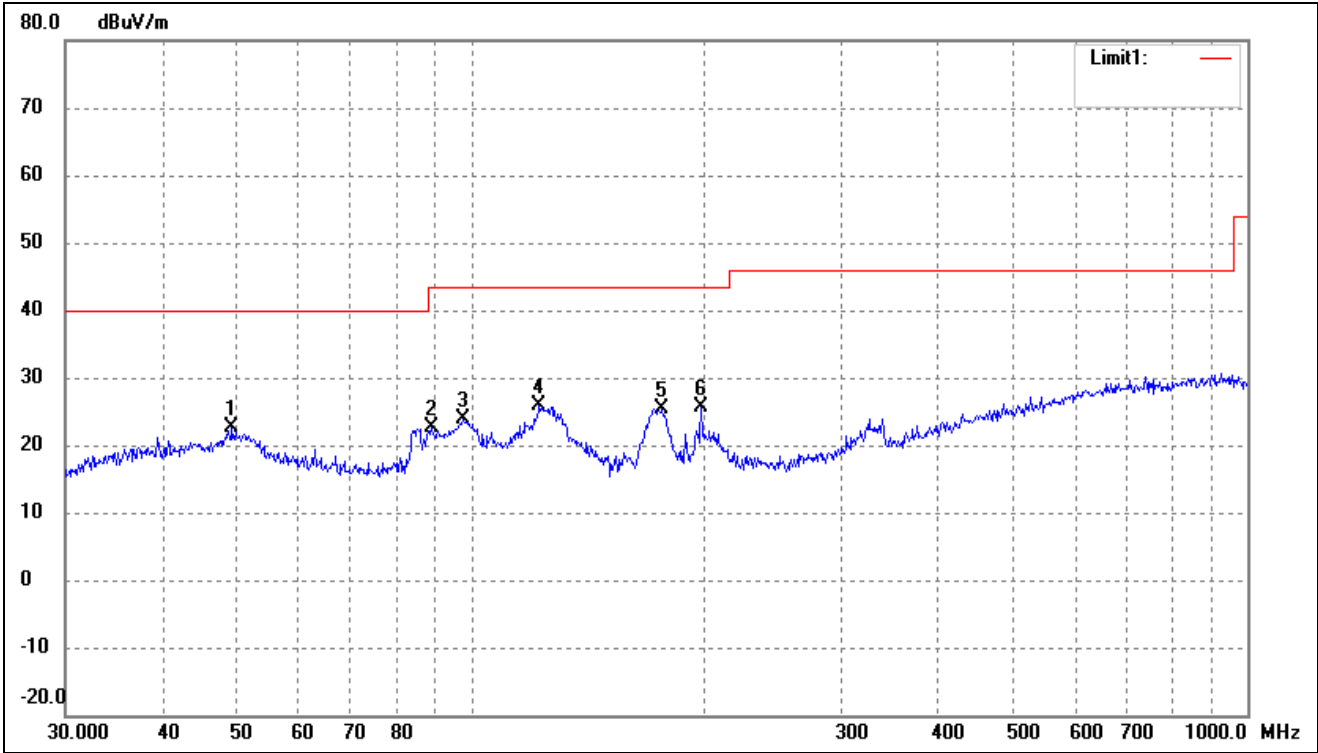
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	88.9639	33.27	-10.59	22.68	43.50	-20.82	-	-	peak
2	97.7983	32.99	-9.13	23.86	43.50	-19.64	-	-	peak
3	123.2655	35.72	-10.20	25.52	43.50	-17.98	-	-	peak
4	174.4241	36.75	-11.53	25.22	43.50	-18.28	-	-	peak
5	188.4125	31.91	-10.24	21.67	43.50	-21.83	-	-	peak
6	331.3547	28.15	-5.98	22.17	46.00	-23.83	-	-	peak

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



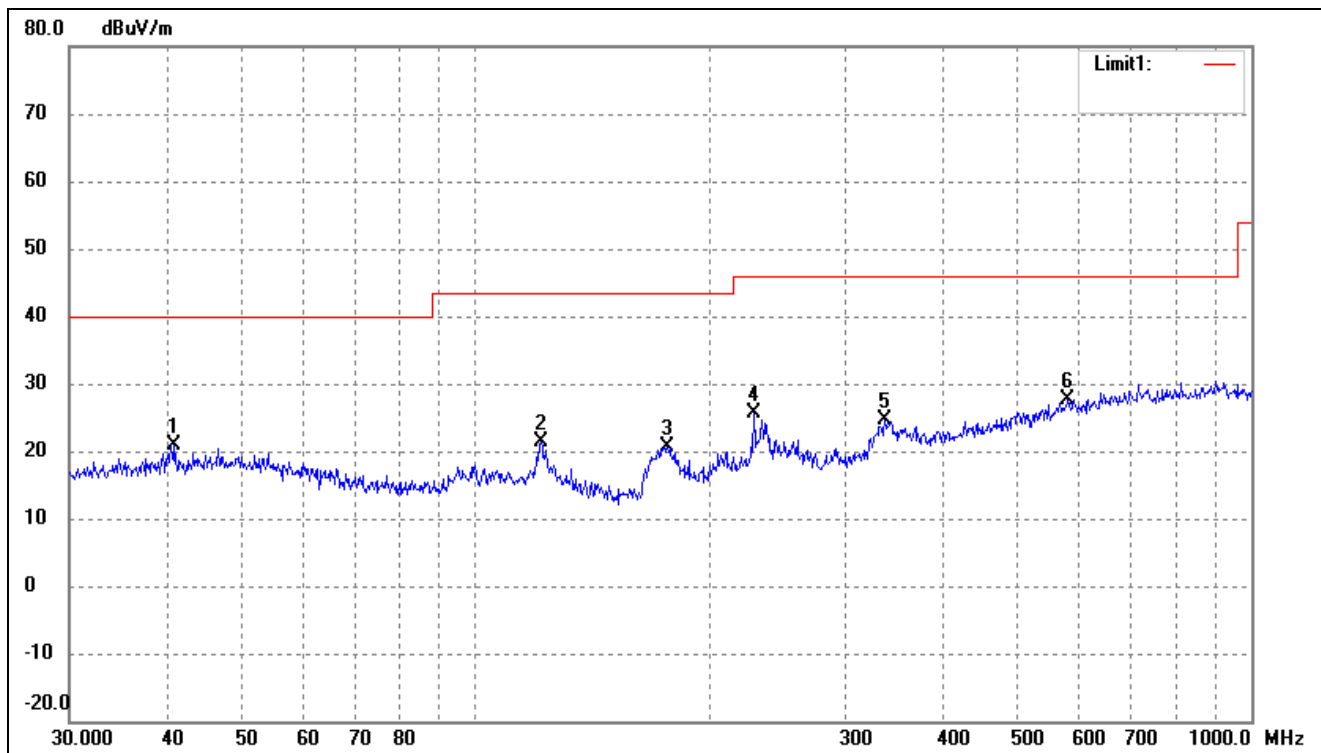
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	102.0014	27.64	-8.76	18.88	43.50	-24.62	-	-	peak
2	121.9755	32.16	-9.96	22.20	43.50	-21.30	-	-	peak
3	177.5092	33.30	-11.39	21.91	43.50	-21.59	-	-	peak
4	234.9909	34.97	-8.74	26.23	46.00	-19.77	-	-	peak
5	341.9787	30.65	-5.65	25.00	46.00	-21.00	-	-	peak
6	721.7259	27.99	1.57	29.56	46.00	-16.44	-	-	peak

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



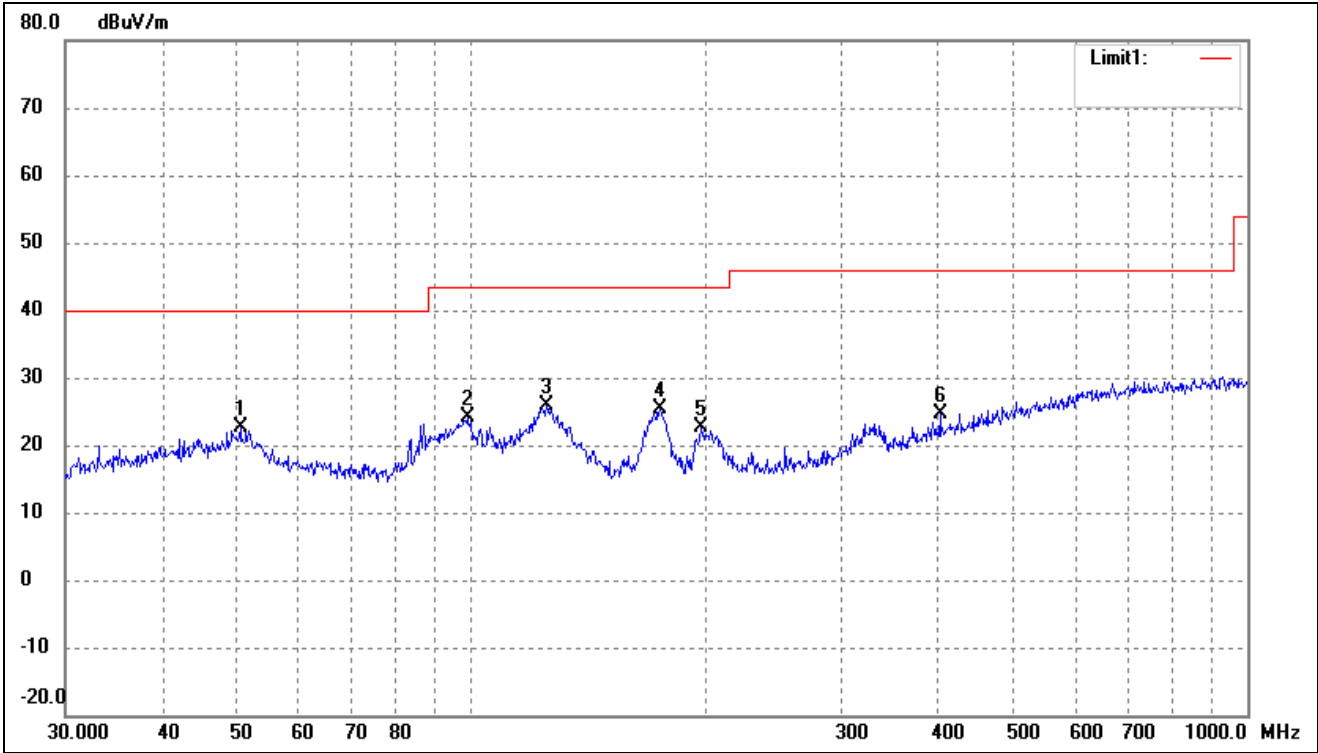
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.1866	29.67	-6.97	22.70	40.00	-17.30	-	-	peak
2	88.9639	33.27	-10.59	22.68	43.50	-20.82	-	-	peak
3	97.7983	32.99	-9.13	23.86	43.50	-19.64	-	-	peak
4	122.4040	35.90	-10.05	25.85	43.50	-17.65	-	-	peak
5	176.2686	36.93	-11.44	25.49	43.50	-18.01	-	-	peak
6	197.8928	35.44	-9.76	25.68	43.50	-17.82	-	-	peak

802.11ax-HE20			
Test Channel	5180MHz(worst case)	Polarity:	Horizontal



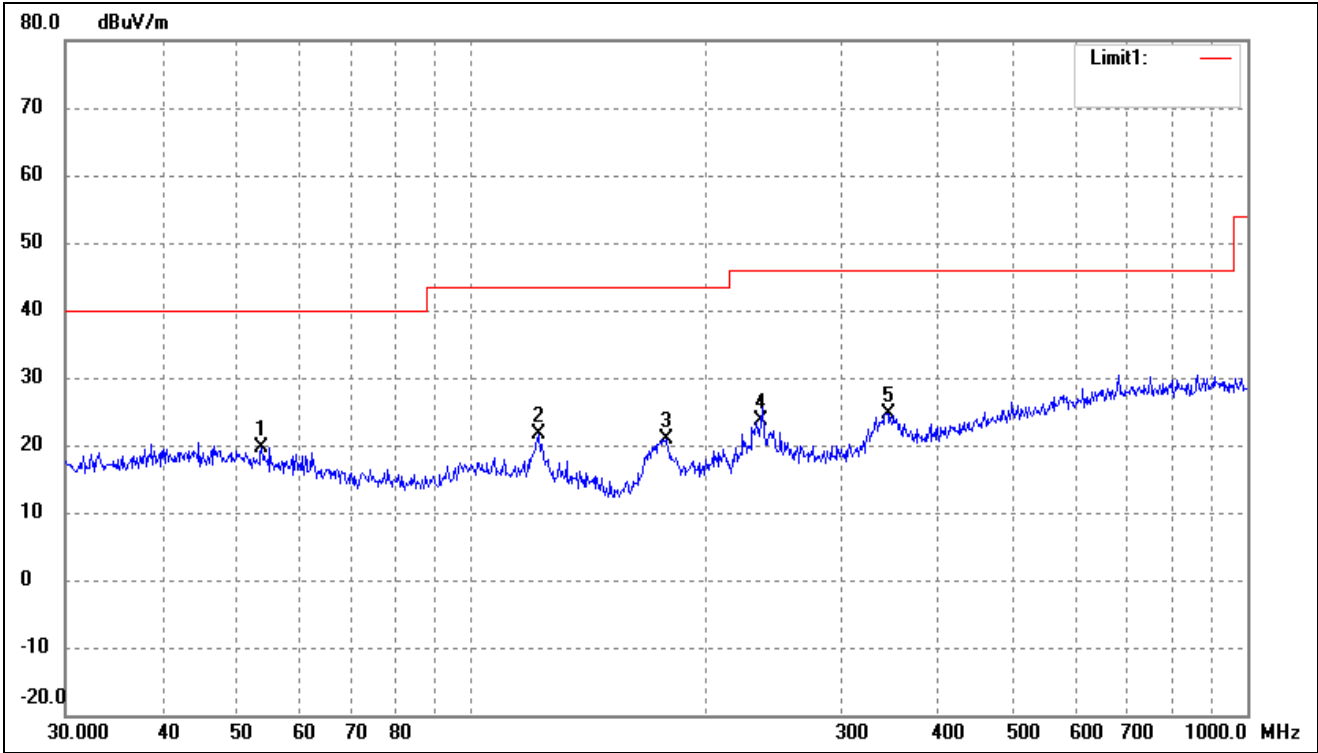
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	40.9881	27.83	-7.00	20.83	40.00	-19.17	-	-	peak
2	121.5486	31.31	-9.88	21.43	43.50	-22.07	-	-	peak
3	176.8878	32.07	-11.41	20.66	43.50	-22.84	-	-	peak
4	228.4904	34.65	-8.92	25.73	46.00	-20.27	-	-	peak
5	337.2155	30.45	-5.81	24.64	46.00	-21.36	-	-	peak
6	580.7026	27.65	0.05	27.70	46.00	-18.30	-	-	peak

802.11ax-HE20			
Test Channel	5180MHz(worst case)	Polarity:	Vertical



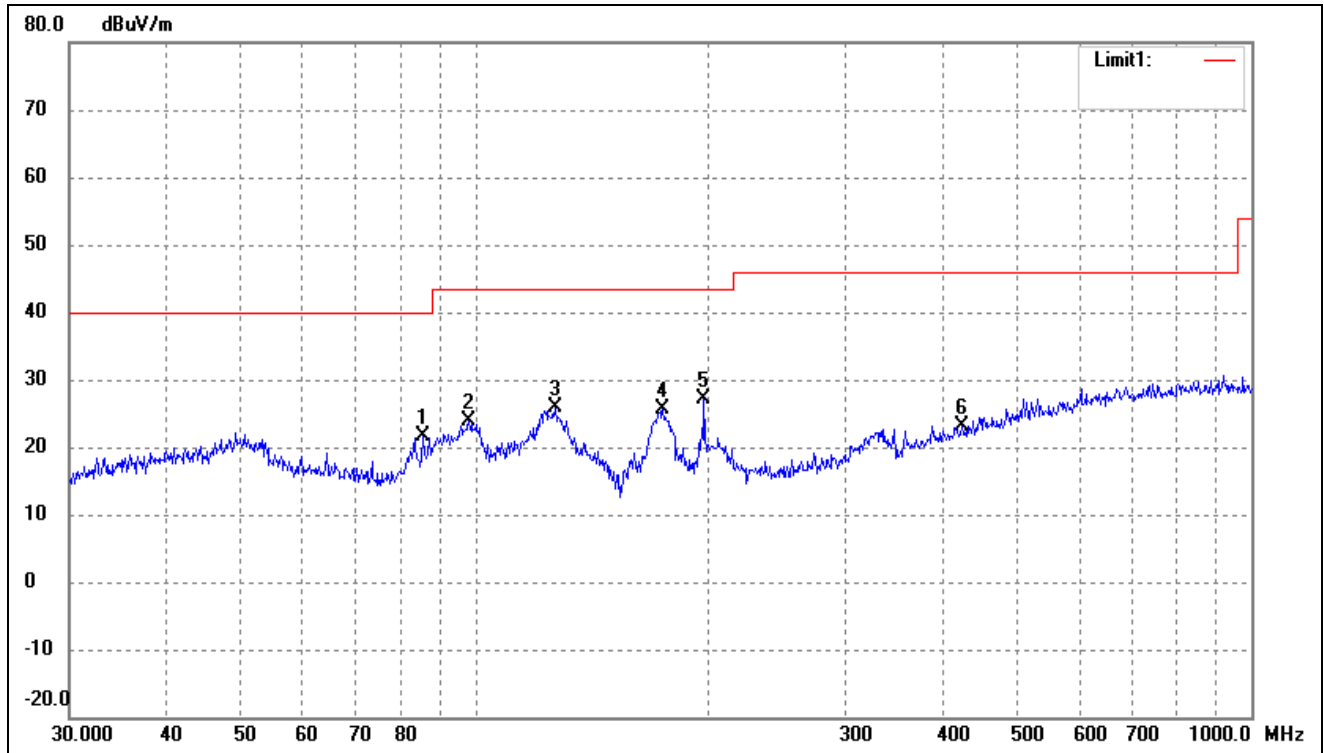
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.4089	29.57	-7.02	22.55	40.00	-17.45	-	-	peak
2	98.8326	33.00	-8.94	24.06	43.50	-19.44	-	-	peak
3	125.0066	36.32	-10.51	25.81	43.50	-17.69	-	-	peak
4	175.0368	36.87	-11.50	25.37	43.50	-18.13	-	-	peak
5	197.8928	32.44	-9.76	22.68	43.50	-20.82	-	-	peak
6	401.8385	28.44	-3.84	24.60	46.00	-21.40	-	-	peak

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



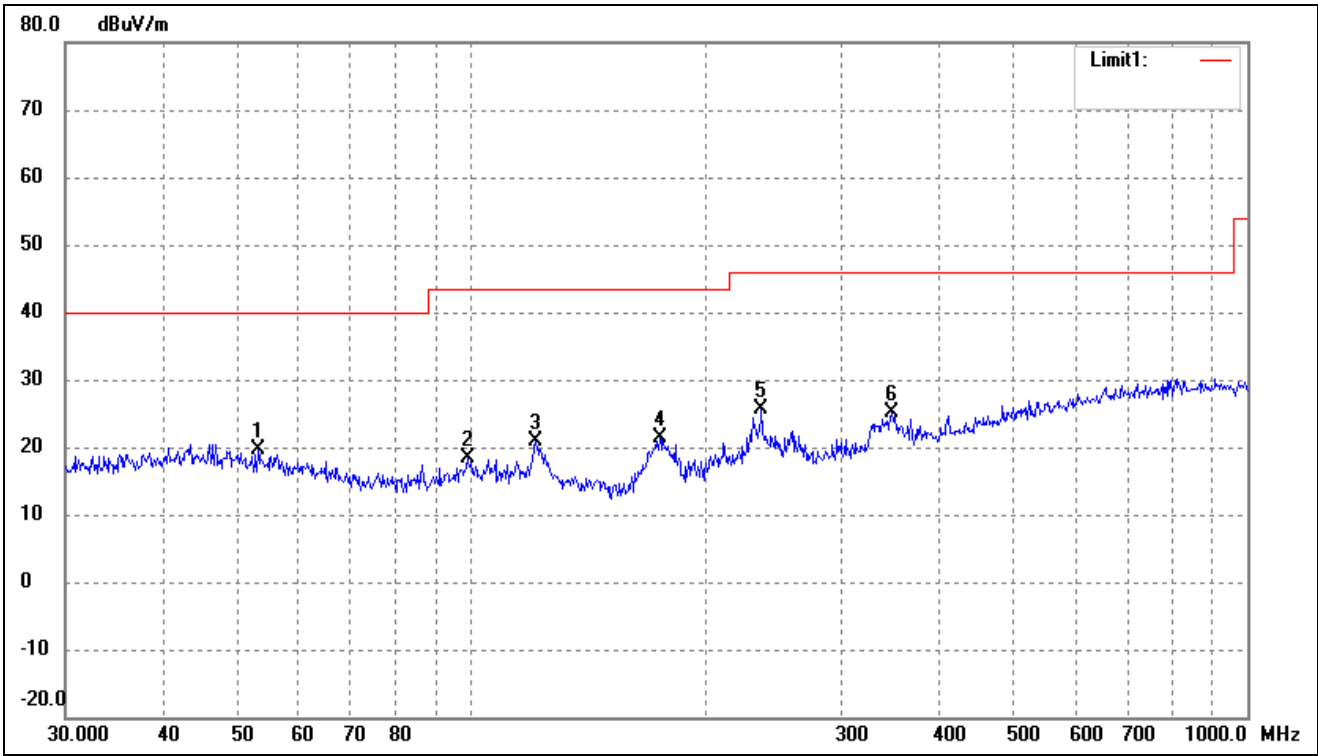
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	53.6932	27.13	-7.49	19.64	40.00	-20.36	-	-	peak
2	122.4040	31.79	-10.05	21.74	43.50	-21.76	-	-	peak
3	178.1327	32.30	-11.36	20.94	43.50	-22.56	-	-	peak
4	235.8164	32.39	-8.71	23.68	46.00	-22.32	-	-	peak
5	344.3855	30.24	-5.57	24.67	46.00	-21.33	-	-	peak

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



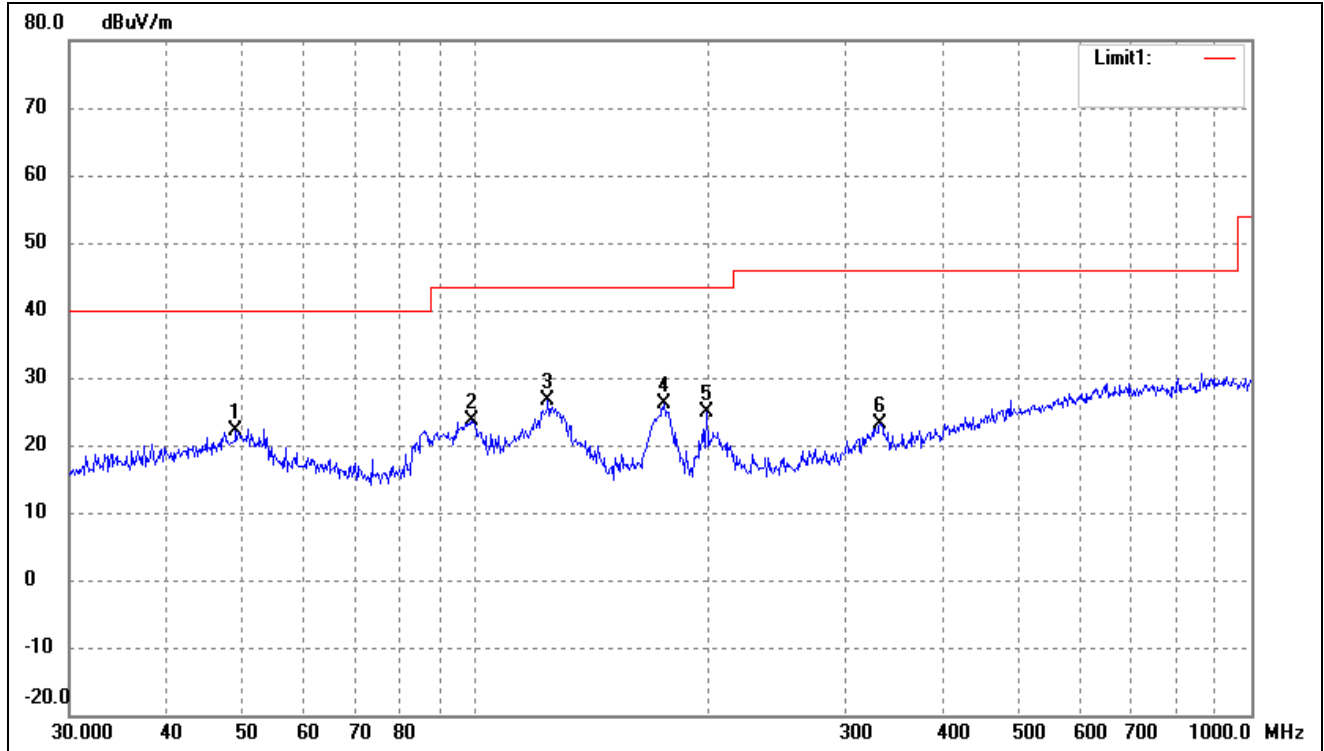
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	85.5977	32.26	-10.65	21.61	40.00	-18.39	-	-	peak
2	98.1419	32.89	-9.07	23.82	43.50	-19.68	-	-	peak
3	126.7723	36.74	-10.85	25.89	43.50	-17.61	-	-	peak
4	174.4241	37.04	-11.53	25.51	43.50	-17.99	-	-	peak
5	197.2001	36.82	-9.79	27.03	43.50	-16.47	-	-	peak
6	423.5403	26.52	-3.27	23.25	46.00	-22.75	-	-	peak

802.11ax-HE40			
Test Channel	5190MHz(worst case)	Polarity:	Horizontal



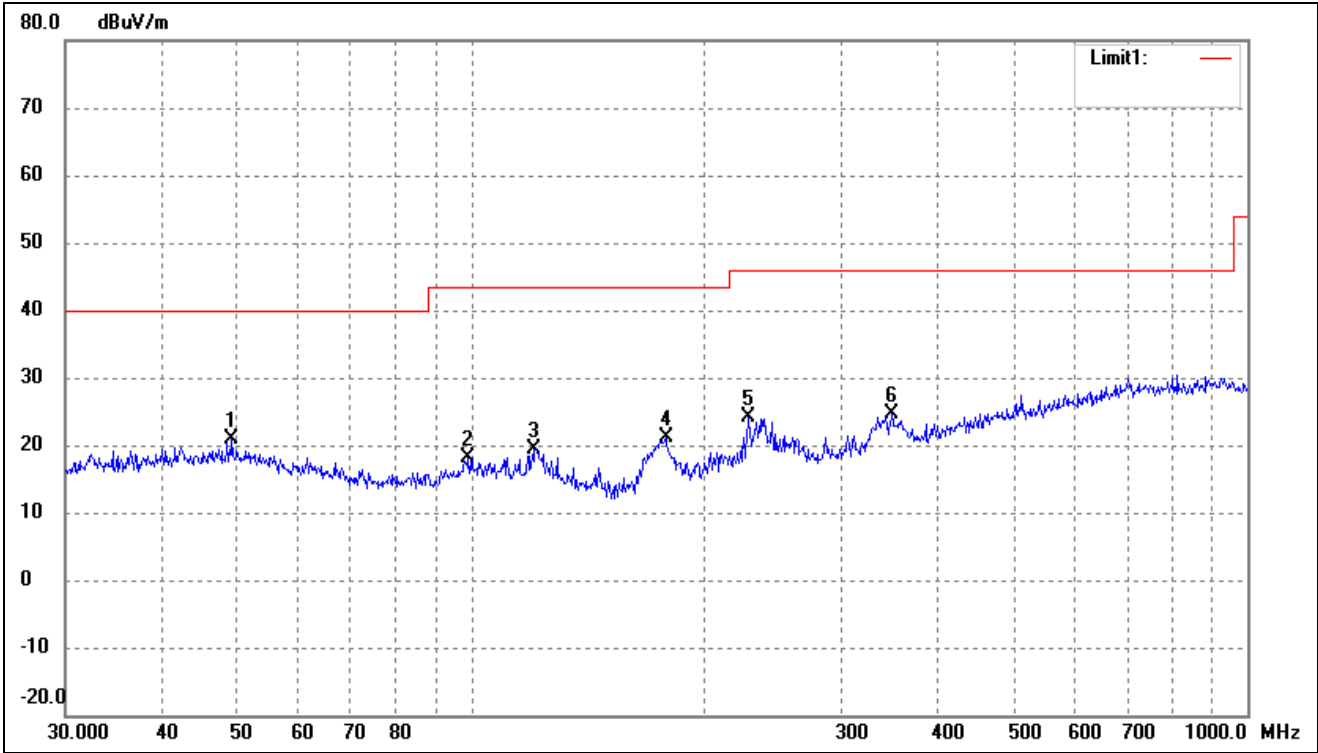
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	53.1313	27.11	-7.42	19.69	40.00	-20.31	-	-	peak
2	98.8326	27.35	-8.94	18.41	43.50	-25.09	-	-	peak
3	121.1231	30.59	-9.80	20.79	43.50	-22.71	-	-	peak
4	175.0368	32.92	-11.50	21.42	43.50	-22.08	-	-	peak
5	236.6447	34.23	-8.68	25.55	46.00	-20.45	-	-	peak
6	348.0274	30.63	-5.46	25.17	46.00	-20.83	-	-	peak

802.11ax-HE40			
Test Channel	5190MHz(worst case)	Polarity:	Vertical



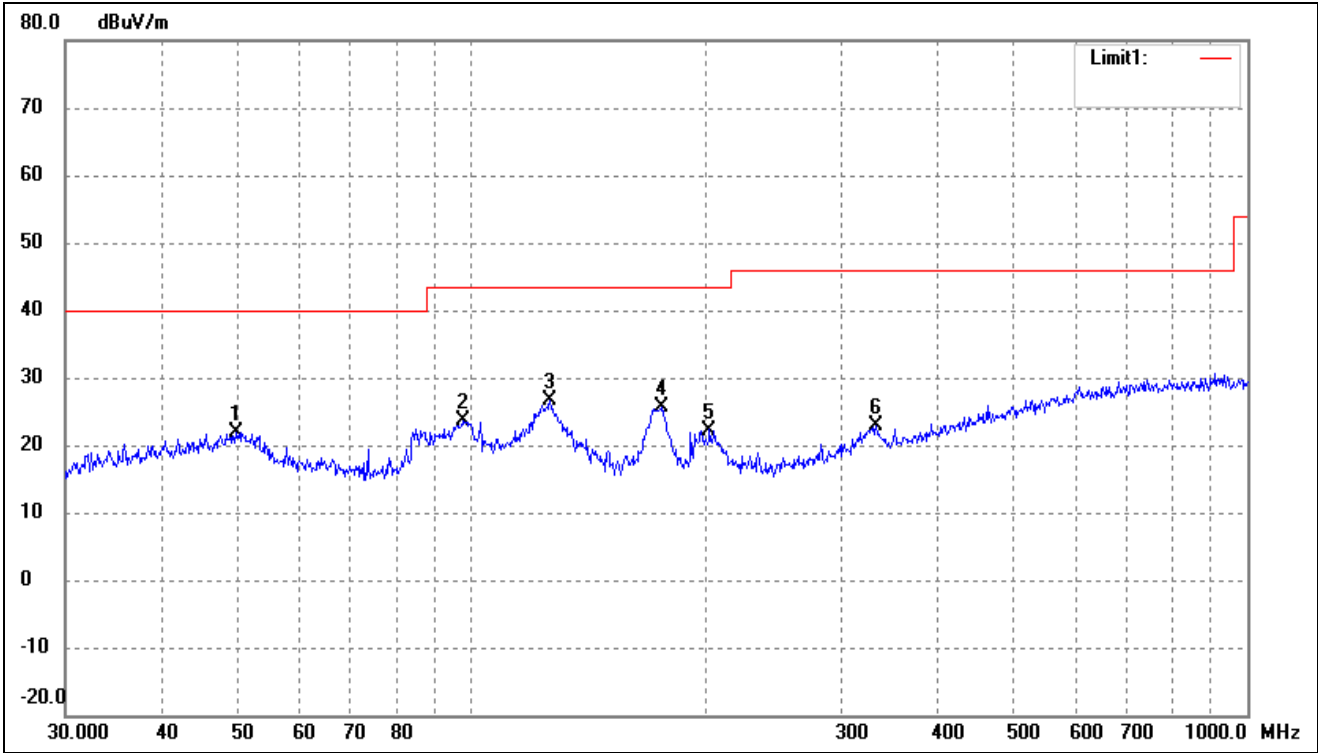
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.1866	29.11	-6.97	22.14	40.00	-17.86	-	-	peak
2	98.8326	32.58	-8.94	23.64	43.50	-19.86	-	-	peak
3	124.1330	36.99	-10.36	26.63	43.50	-16.87	-	-	peak
4	175.0368	37.53	-11.50	26.03	43.50	-17.47	-	-	peak
5	198.5880	34.55	-9.75	24.80	43.50	-18.70	-	-	peak
6	332.5187	29.14	-5.94	23.20	46.00	-22.80	-	-	peak

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



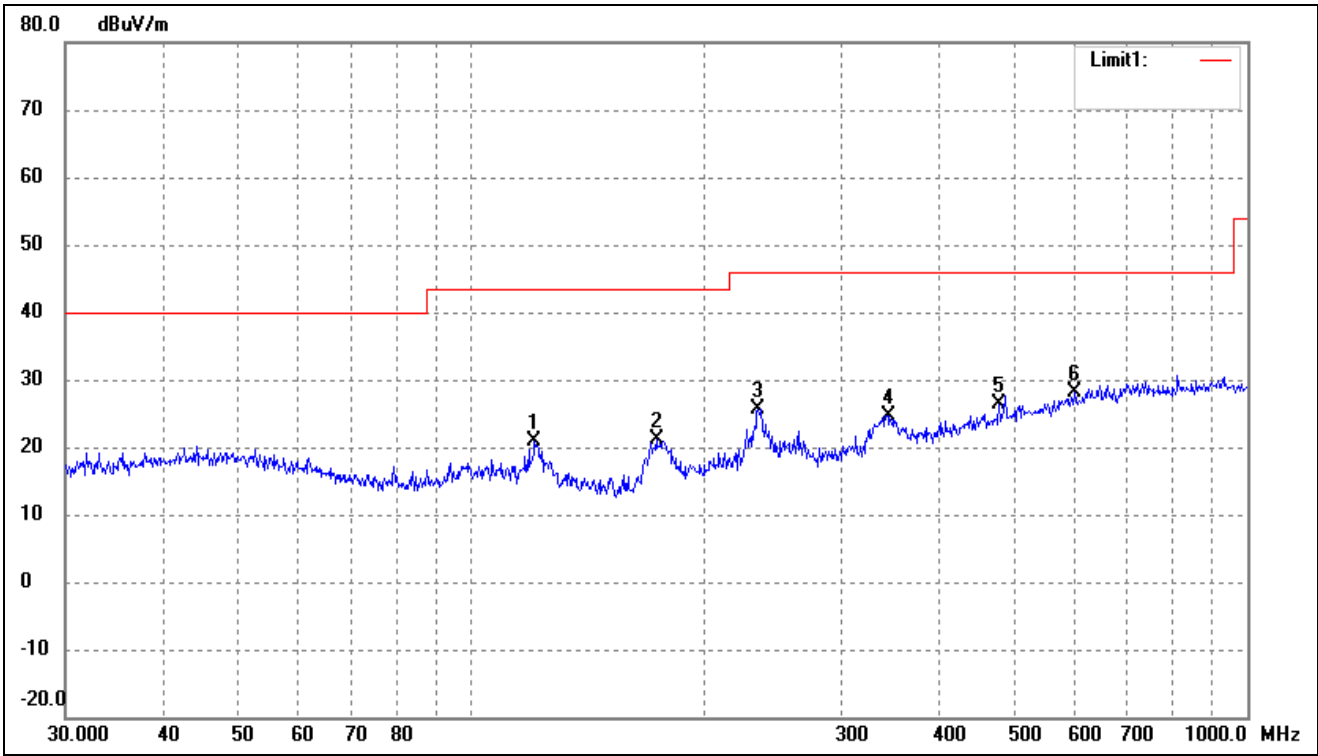
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.1866	27.74	-6.97	20.77	40.00	-19.23	-	-	peak
2	99.1797	26.91	-8.88	18.03	43.50	-25.47	-	-	peak
3	120.6991	29.13	-9.72	19.41	43.50	-24.09	-	-	peak
4	178.1327	32.42	-11.36	21.06	43.50	-22.44	-	-	peak
5	227.6906	32.99	-8.94	24.05	46.00	-21.95	-	-	peak
6	348.0274	30.12	-5.46	24.66	46.00	-21.34	-	-	peak

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



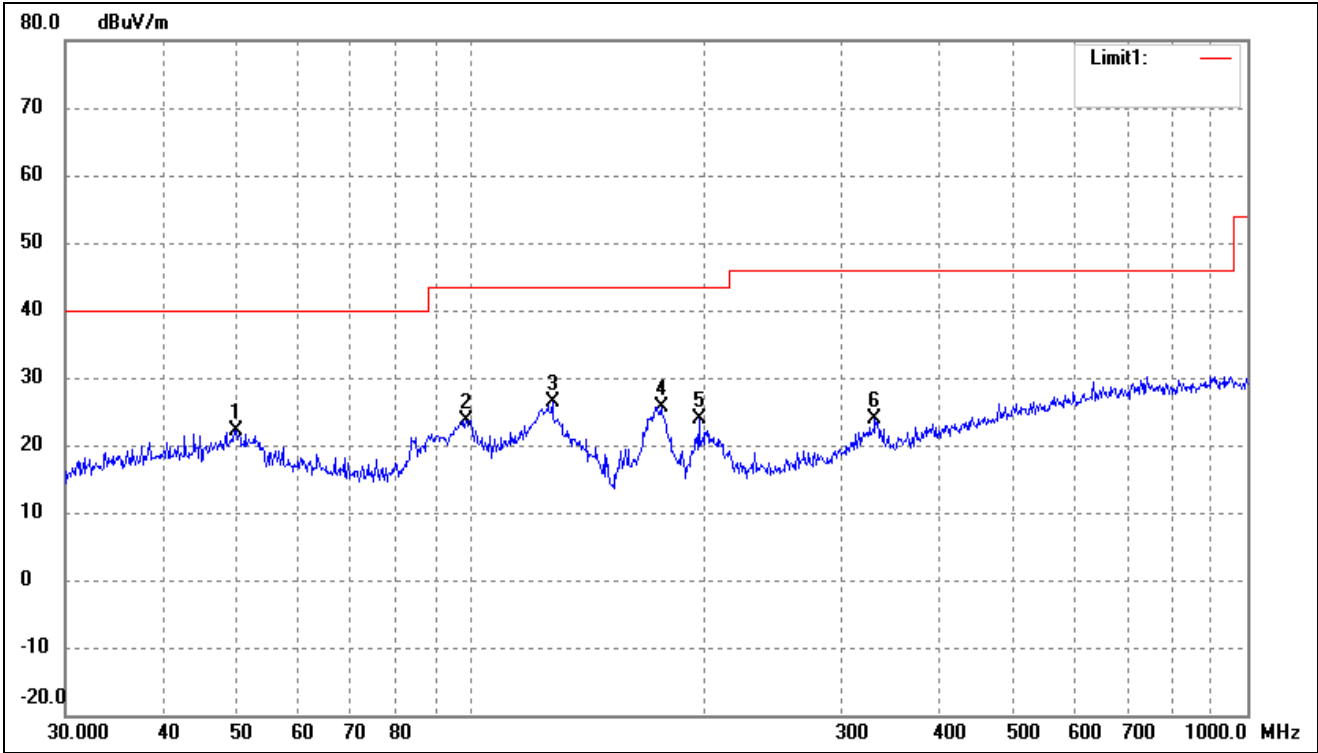
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.7068	28.87	-6.96	21.91	40.00	-18.09	-	-	peak
2	97.4560	32.77	-9.20	23.57	43.50	-19.93	-	-	peak
3	126.3286	37.49	-10.76	26.73	43.50	-16.77	-	-	peak
4	176.2686	37.11	-11.44	25.67	43.50	-17.83	-	-	peak
5	202.8104	31.87	-9.62	22.25	43.50	-21.25	-	-	peak
6	332.5187	28.76	-5.94	22.82	46.00	-23.18	-	-	peak

802.11ax-HE80			
Test Channel	5210MHz(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	120.6991	30.62	-9.72	20.90	43.50	-22.60	-	-	peak
2	173.2051	32.66	-11.58	21.08	43.50	-22.42	-	-	peak
3	234.1684	34.41	-8.76	25.65	46.00	-20.35	-	-	peak
4	344.3855	30.32	-5.57	24.75	46.00	-21.25	-	-	peak
5	478.8456	28.15	-1.84	26.31	46.00	-19.69	-	-	peak
6	599.3213	27.74	0.36	28.10	46.00	-17.90	-	-	peak

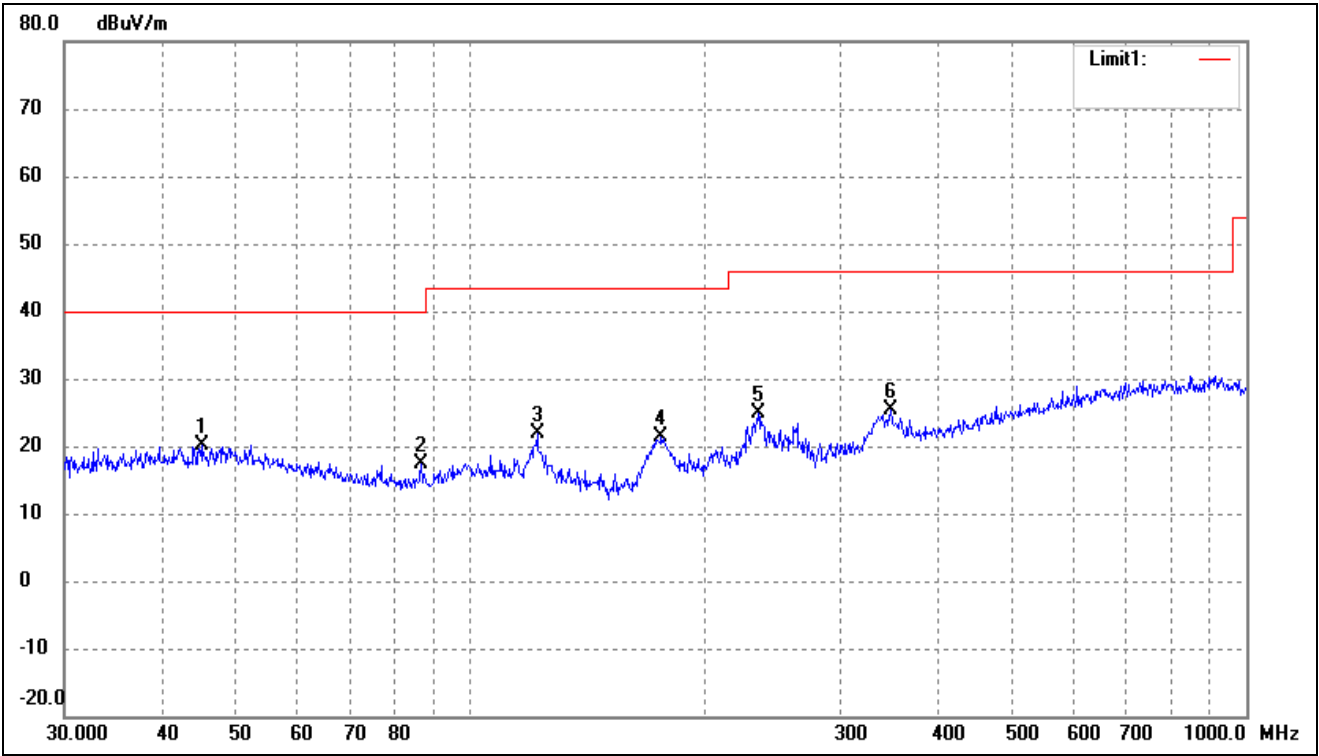
802.11ax-HE80			
Test Channel	5210MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.8814	29.15	-6.96	22.19	40.00	-17.81	-	-	peak
2	98.4866	32.71	-9.01	23.70	43.50	-19.80	-	-	peak
3	127.2176	37.24	-10.93	26.31	43.50	-17.19	-	-	peak
4	175.6516	37.11	-11.47	25.64	43.50	-17.86	-	-	peak
5	196.5098	33.72	-9.81	23.91	43.50	-19.59	-	-	peak
6	331.3547	29.94	-5.98	23.96	46.00	-22.04	-	-	peak

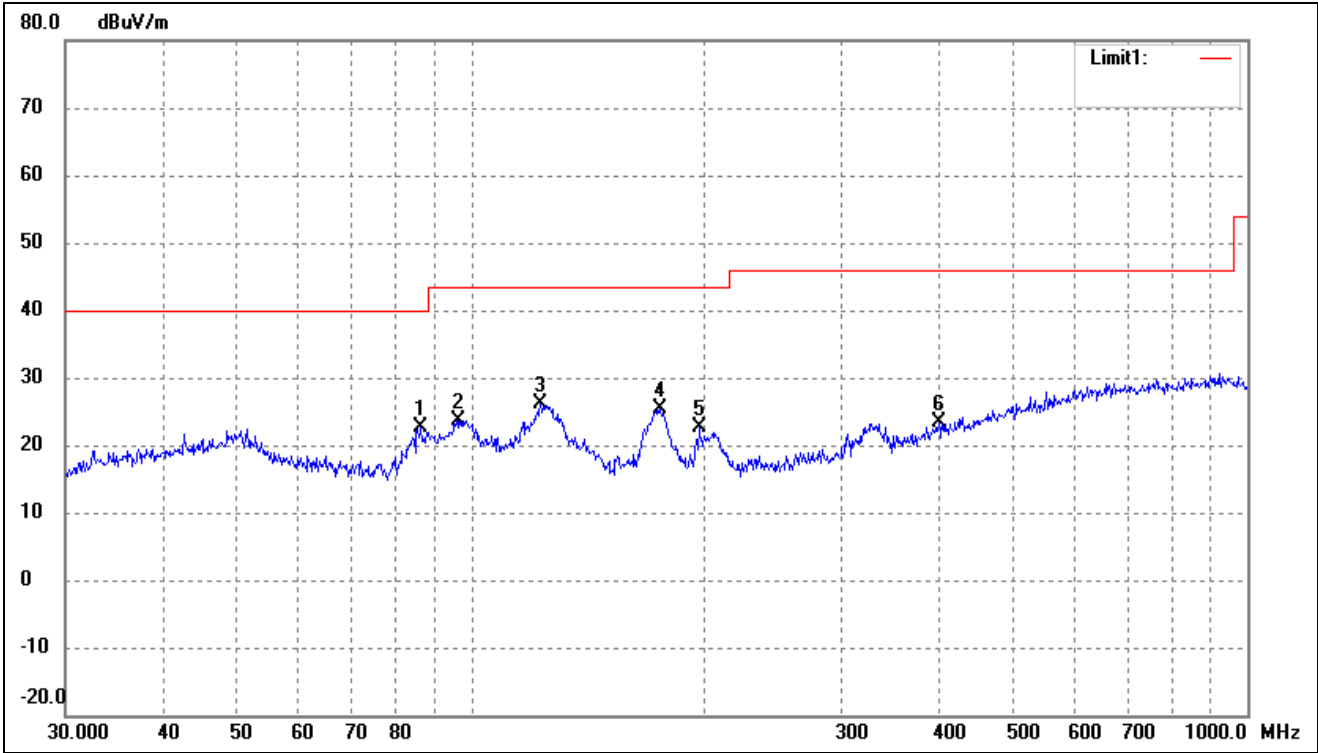
➤ Antenna 0: 5725-5850MHz

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



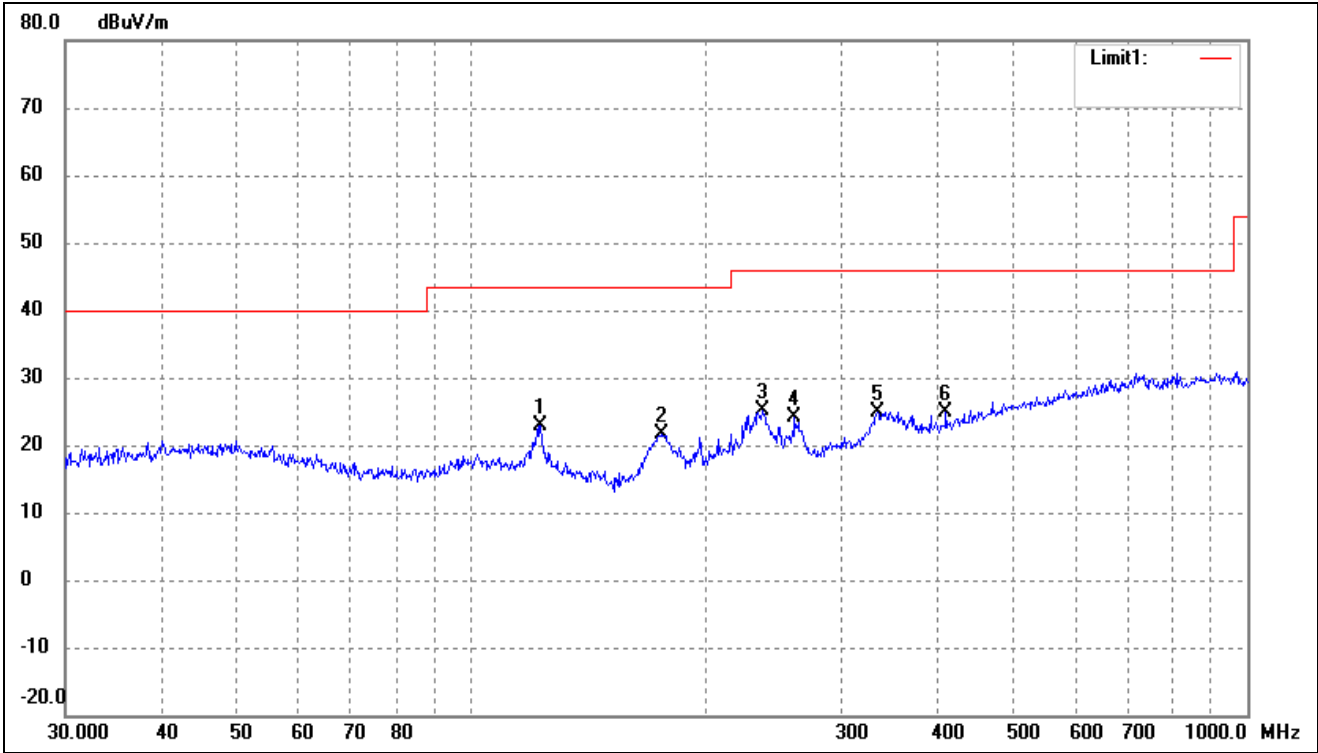
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.0583	27.15	-6.98	20.17	40.00	-19.83	-	-	peak
2	86.5029	27.88	-10.62	17.26	40.00	-22.74	-	-	peak
3	121.9755	31.92	-9.96	21.96	43.50	-21.54	-	-	peak
4	176.2686	32.92	-11.44	21.48	43.50	-22.02	-	-	peak
5	234.9909	33.61	-8.74	24.87	46.00	-21.13	-	-	peak
6	348.0274	30.85	-5.46	25.39	46.00	-20.61	-	-	peak

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



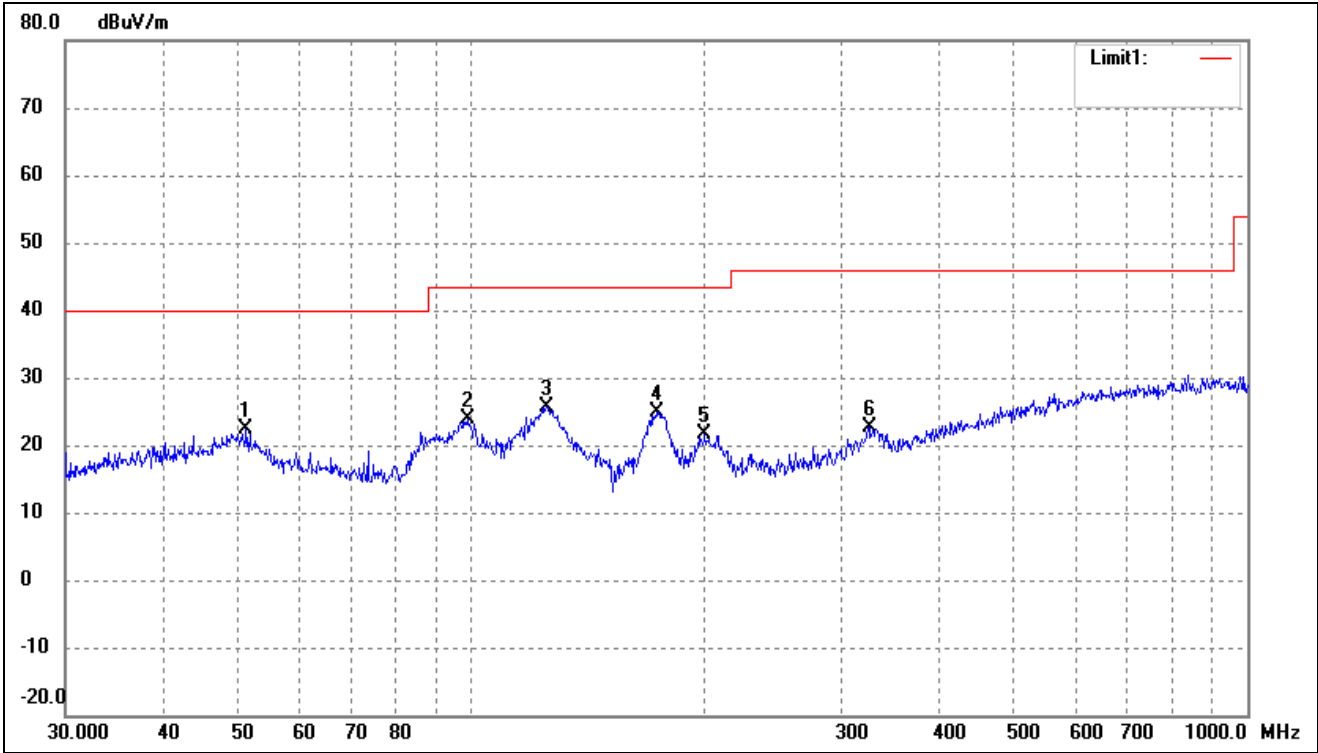
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	86.2001	33.21	-10.64	22.57	40.00	-17.43	-	-	peak
2	96.4362	33.10	-9.40	23.70	43.50	-19.80	-	-	peak
3	122.8340	36.16	-10.12	26.04	43.50	-17.46	-	-	peak
4	175.0368	36.76	-11.50	25.26	43.50	-18.24	-	-	peak
5	196.5098	32.33	-9.81	22.52	43.50	-20.98	-	-	peak
6	400.4319	27.15	-3.88	23.27	46.00	-22.73	-	-	peak

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



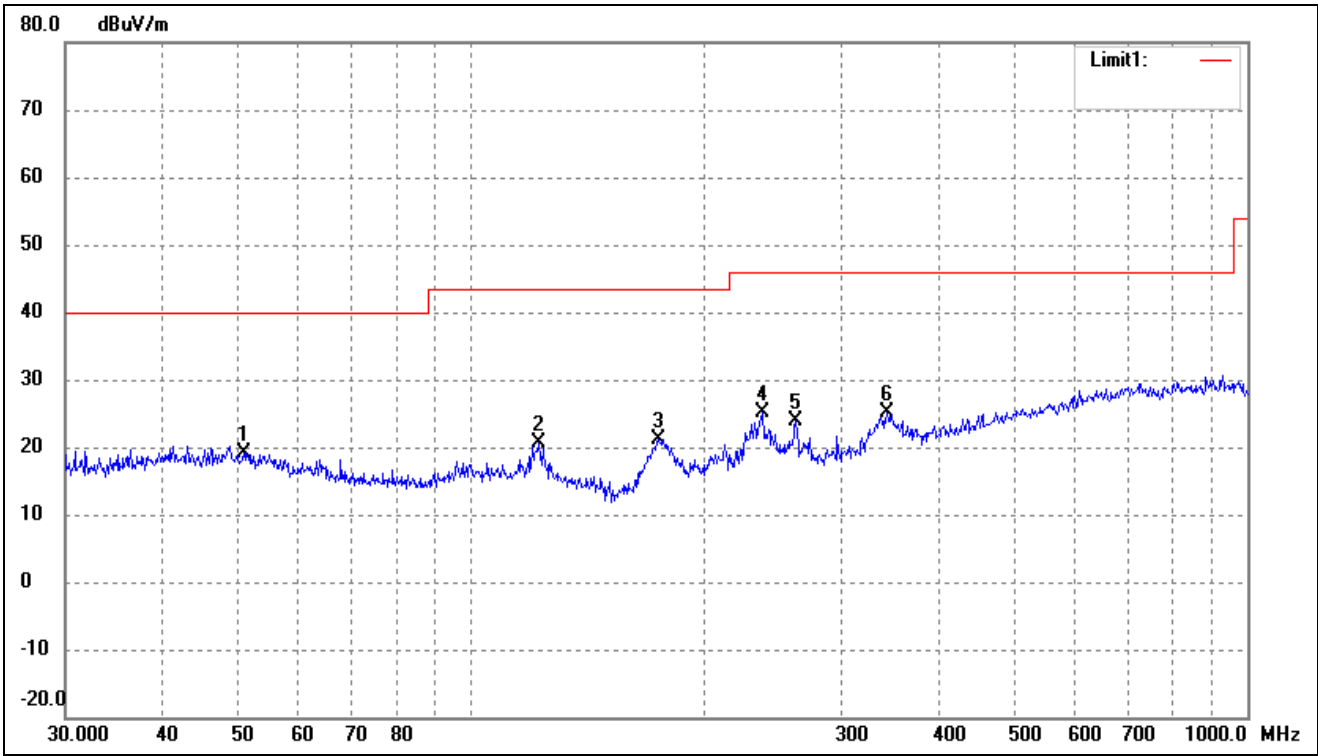
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	122.8340	33.00	-10.12	22.88	43.50	-20.62	-	-	peak
2	176.2686	33.05	-11.44	21.61	43.50	-21.89	-	-	peak
3	237.4760	33.81	-8.66	25.15	46.00	-20.85	-	-	peak
4	261.0583	32.01	-8.00	24.01	46.00	-21.99	-	-	peak
5	333.6867	30.81	-5.91	24.90	46.00	-21.10	-	-	peak
6	408.9460	28.59	-3.66	24.93	46.00	-21.07	-	-	peak

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



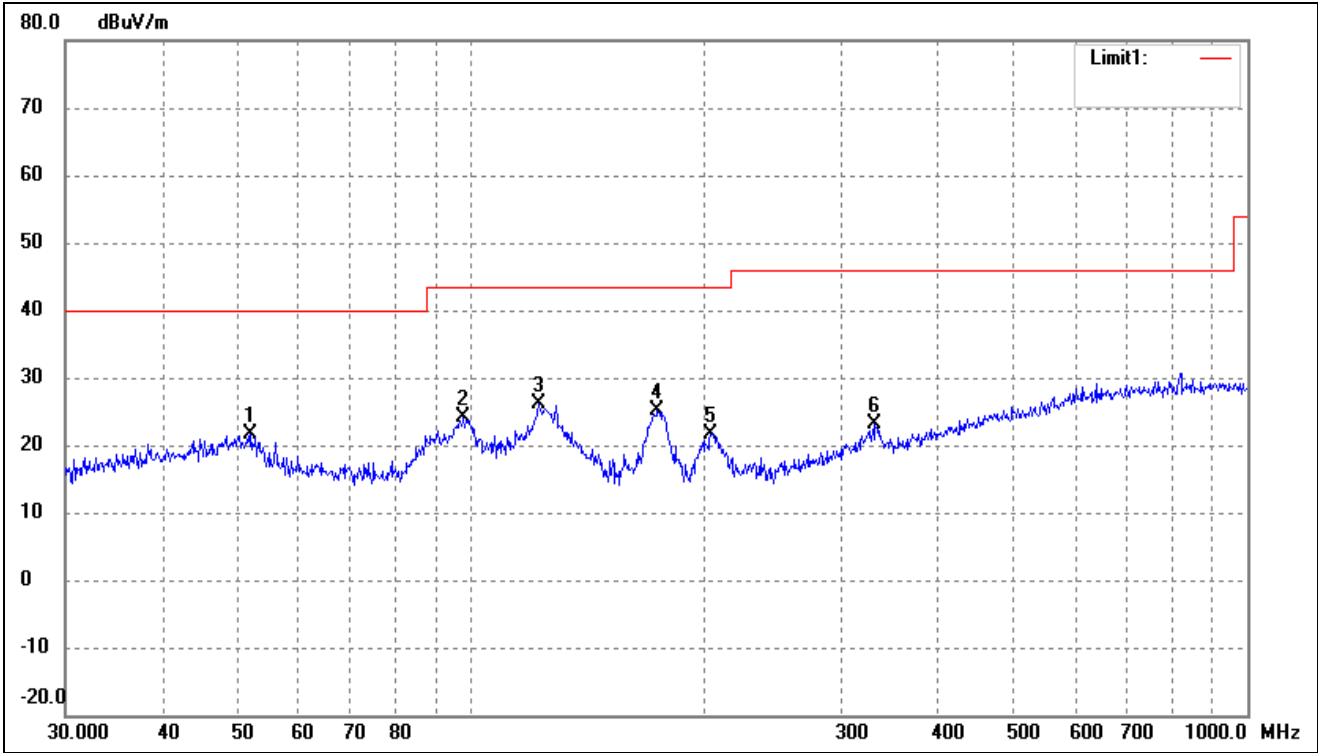
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	51.3005	29.50	-7.15	22.35	40.00	-17.65	-	-	peak
2	98.8326	32.78	-8.94	23.84	43.50	-19.66	-	-	peak
3	125.0066	36.22	-10.51	25.71	43.50	-17.79	-	-	peak
4	173.2051	36.53	-11.58	24.95	43.50	-18.55	-	-	peak
5	199.9856	31.39	-9.70	21.69	43.50	-21.81	-	-	peak
6	325.5958	28.89	-6.17	22.72	46.00	-23.28	-	-	peak

802.11ax-HE20			
Test Channel	5745MHz(worst case)	Polarity:	Horizontal



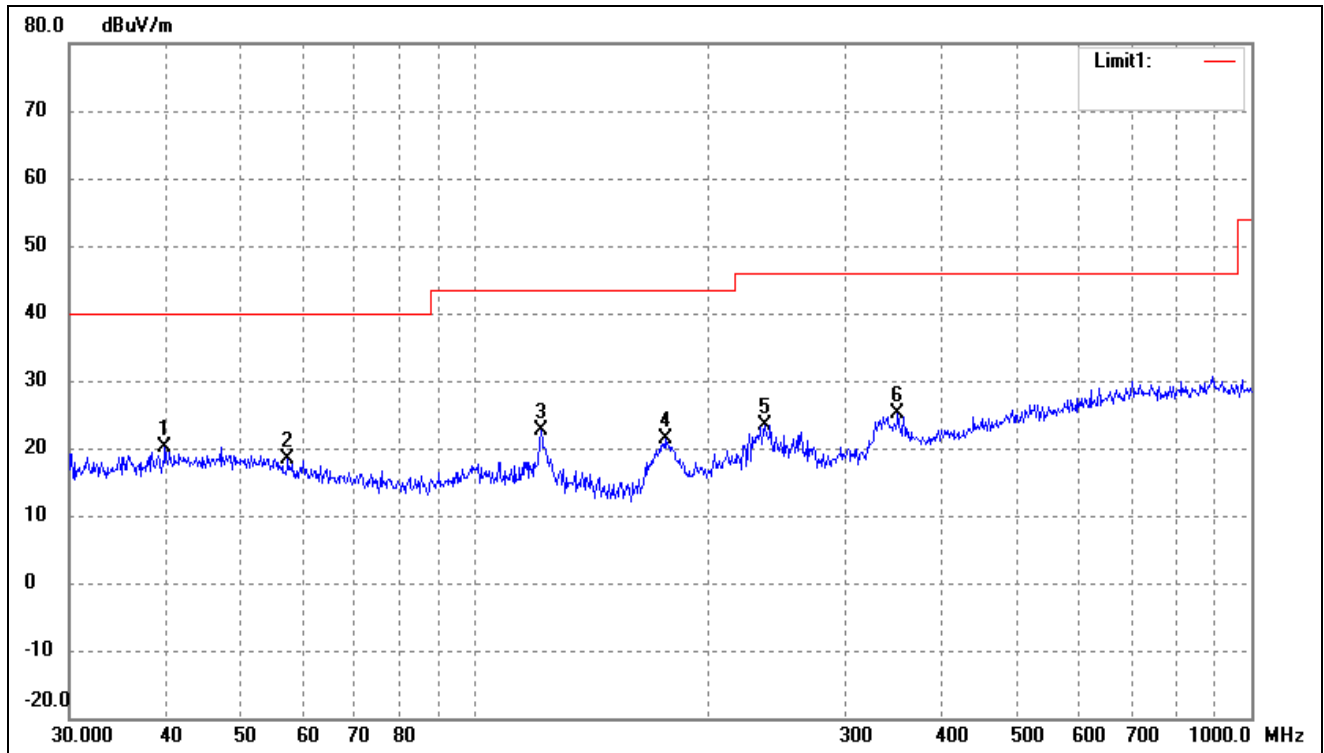
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	50.9420	26.18	-7.10	19.08	40.00	-20.92	-	-	peak
2	121.9755	30.57	-9.96	20.61	43.50	-22.89	-	-	peak
3	174.4241	32.59	-11.53	21.06	43.50	-22.44	-	-	peak
4	237.4760	33.84	-8.66	25.18	46.00	-20.82	-	-	peak
5	261.9753	31.97	-7.98	23.99	46.00	-22.01	-	-	peak
6	343.1800	30.78	-5.62	25.16	46.00	-20.84	-	-	peak

802.11ax-HE20			
Test Channel	5745MHz(worst case)	Polarity:	Vertical



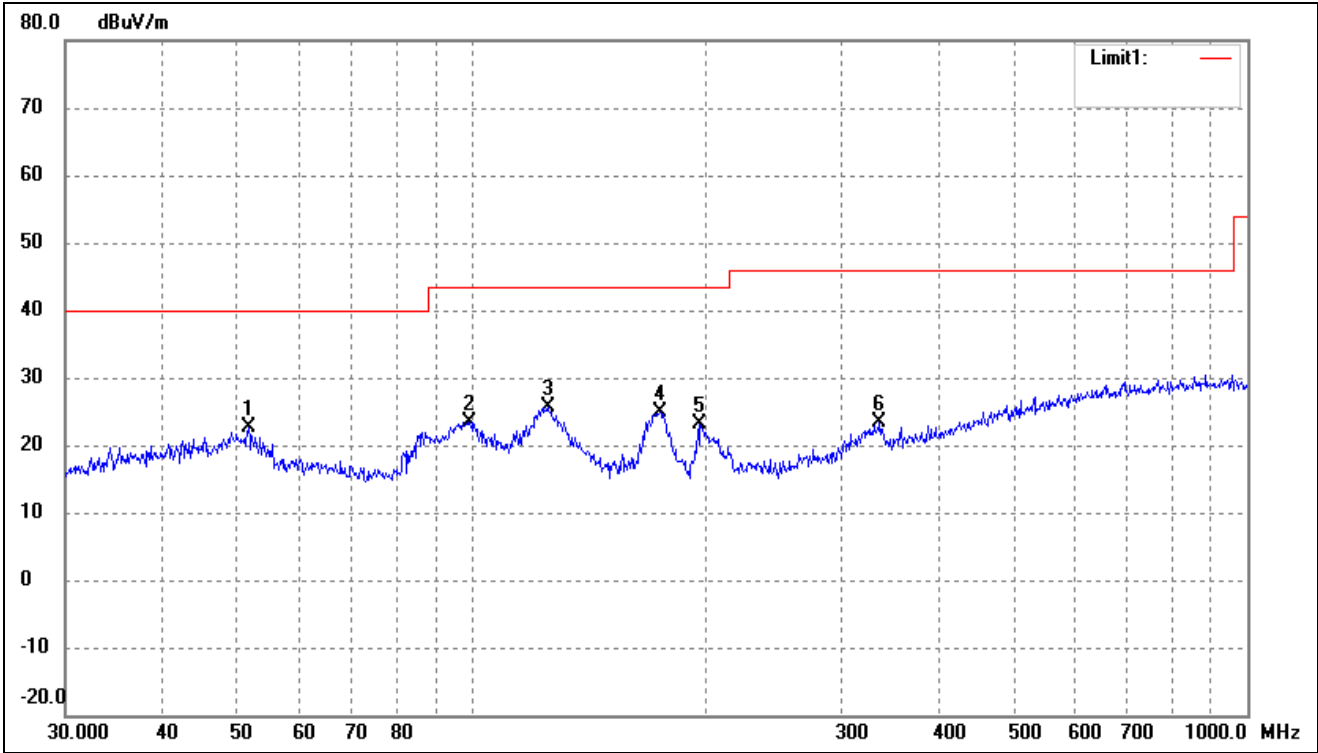
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	52.0251	28.84	-7.25	21.59	40.00	-18.41	-	-	peak
2	97.7983	33.14	-9.13	24.01	43.50	-19.49	-	-	peak
3	121.9755	36.05	-9.96	26.09	43.50	-17.41	-	-	peak
4	173.8135	36.60	-11.55	25.05	43.50	-18.45	-	-	peak
5	203.5228	31.34	-9.61	21.73	43.50	-21.77	-	-	peak
6	331.3547	29.15	-5.98	23.17	46.00	-22.83	-	-	peak

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



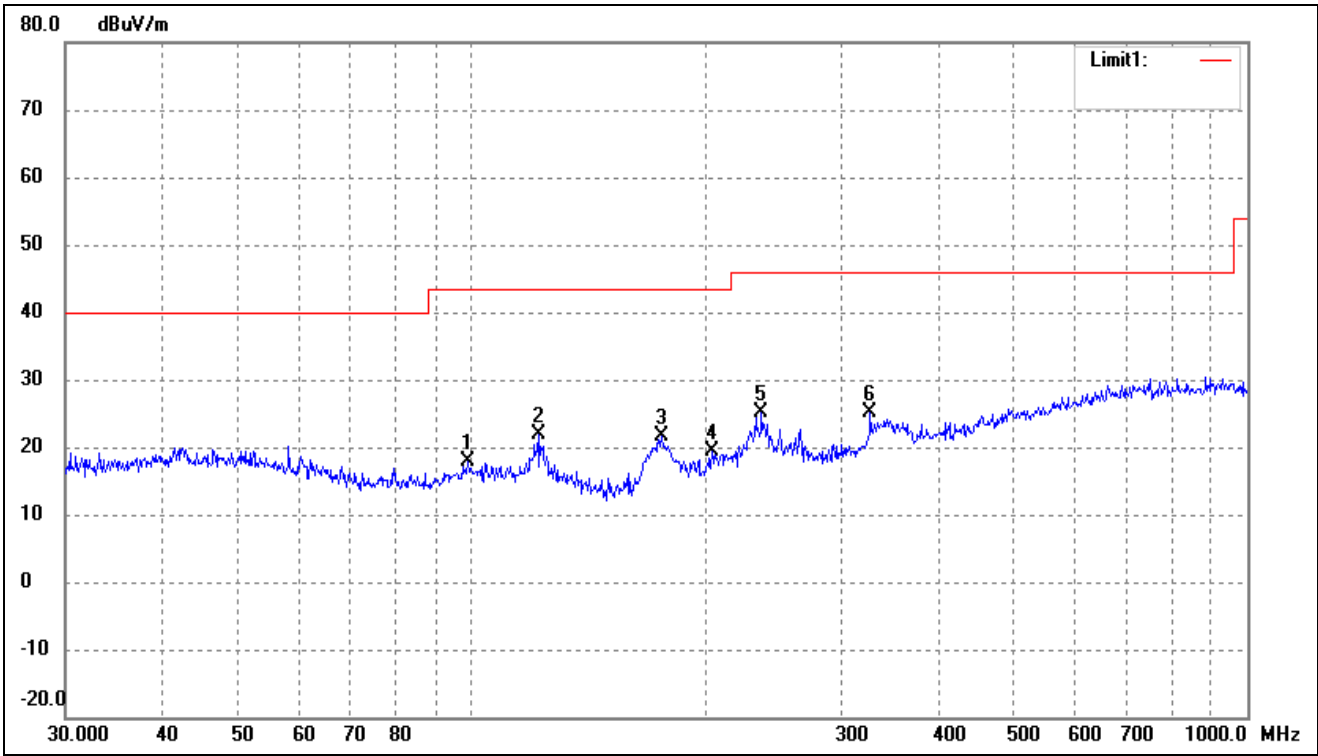
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	39.8542	27.26	-7.03	20.23	40.00	-19.77	-	-	peak
2	57.3923	26.32	-8.05	18.27	40.00	-21.73	-	-	peak
3	121.5486	32.55	-9.88	22.67	43.50	-20.83	-	-	peak
4	175.6516	32.74	-11.47	21.27	43.50	-22.23	-	-	peak
5	235.8164	32.03	-8.71	23.32	46.00	-22.68	-	-	peak
6	350.4768	30.42	-5.39	25.03	46.00	-20.97	-	-	peak

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



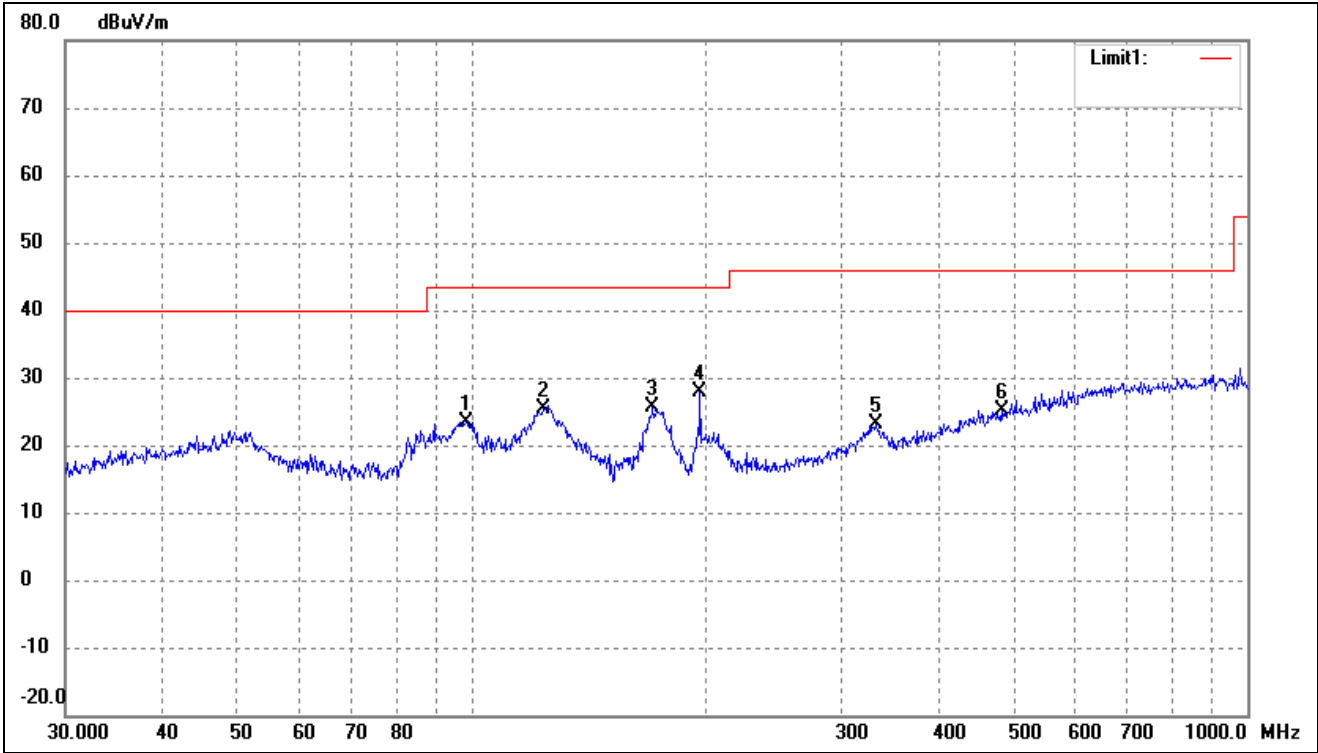
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	51.6616	29.71	-7.20	22.51	40.00	-17.49	-	-	peak
2	99.5281	32.20	-8.81	23.39	43.50	-20.11	-	-	peak
3	125.4457	36.20	-10.59	25.61	43.50	-17.89	-	-	peak
4	175.0368	36.28	-11.50	24.78	43.50	-18.72	-	-	peak
5	197.2001	32.83	-9.79	23.04	43.50	-20.46	-	-	peak
6	336.0352	29.31	-5.83	23.48	46.00	-22.52	-	-	peak

802.11ax-HE40			
Test Channel	5755MHz(worst case)	Polarity:	Horizontal



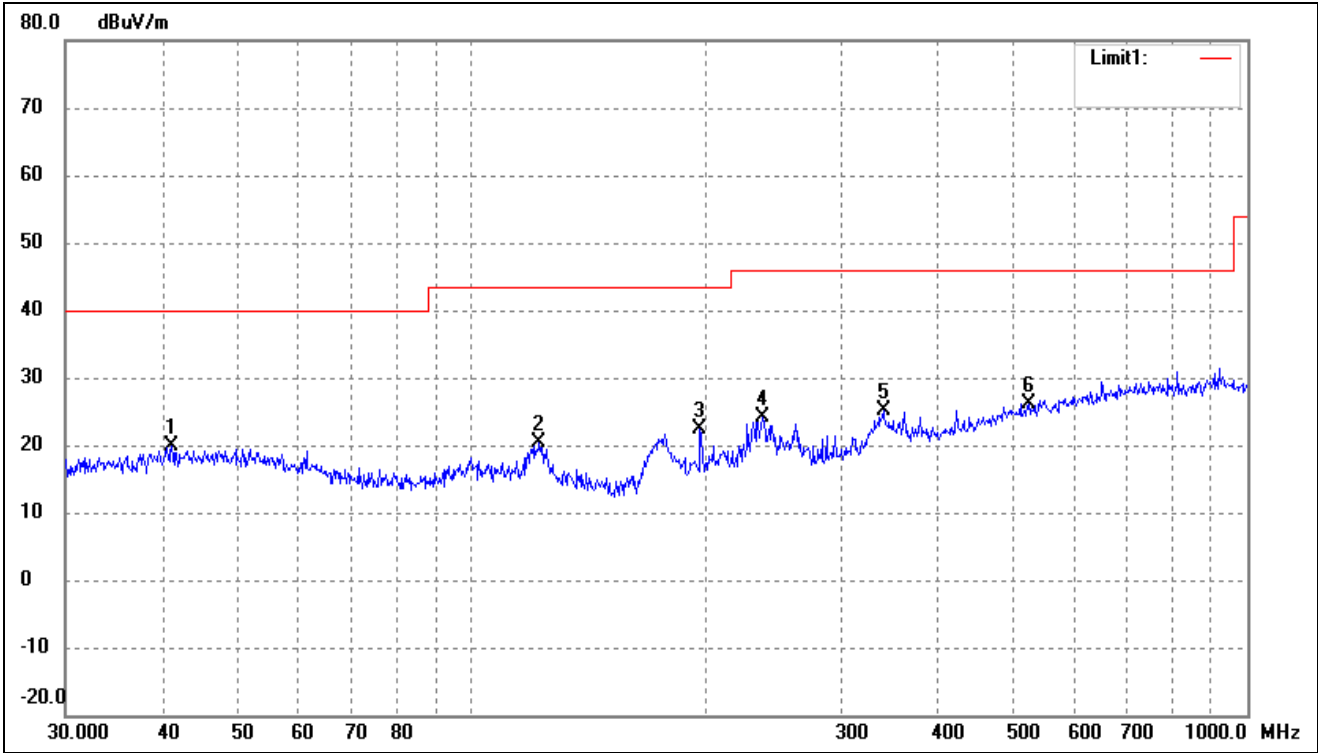
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	99.1797	26.68	-8.88	17.80	43.50	-25.70	-	-	peak
2	121.9755	31.76	-9.96	21.80	43.50	-21.70	-	-	peak
3	175.6516	33.17	-11.47	21.70	43.50	-21.80	-	-	peak
4	204.2377	28.84	-9.58	19.26	43.50	-24.24	-	-	peak
5	236.6447	33.86	-8.68	25.18	46.00	-20.82	-	-	peak
6	326.7395	31.38	-6.13	25.25	46.00	-20.75	-	-	peak

802.11ax-HE40			
Test Channel	5755MHz(worst case)	Polarity:	Vertical



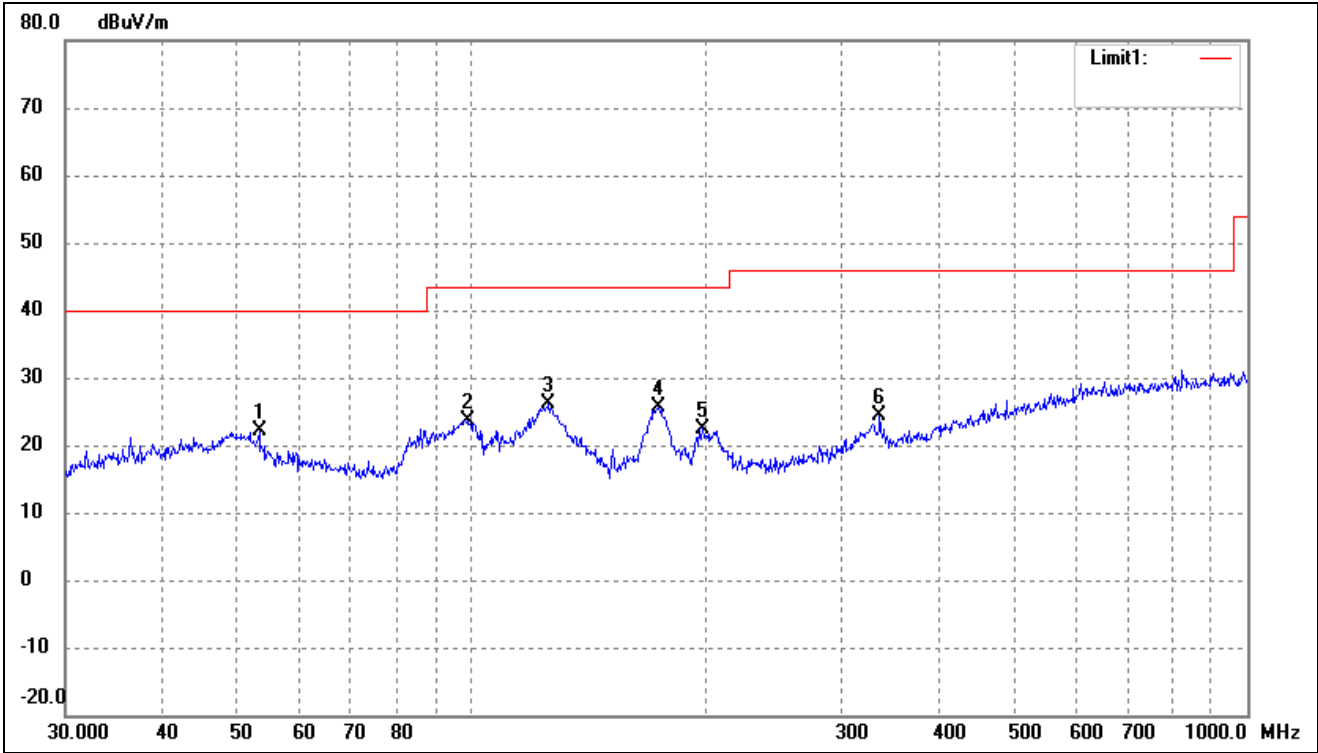
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	98.4866	32.49	-9.01	23.48	43.50	-20.02	-	-	peak
2	124.1330	35.72	-10.36	25.36	43.50	-18.14	-	-	peak
3	171.3926	37.39	-11.66	25.73	43.50	-17.77	-	-	peak
4	197.2001	37.62	-9.79	27.83	43.50	-15.67	-	-	peak
5	332.5187	28.96	-5.94	23.02	46.00	-22.98	-	-	peak
6	482.2156	26.80	-1.75	25.05	46.00	-20.95	-	-	peak

802.11ac-HT80			
Test Channel	5775MHz(worst case)	Polarity:	Horizontal



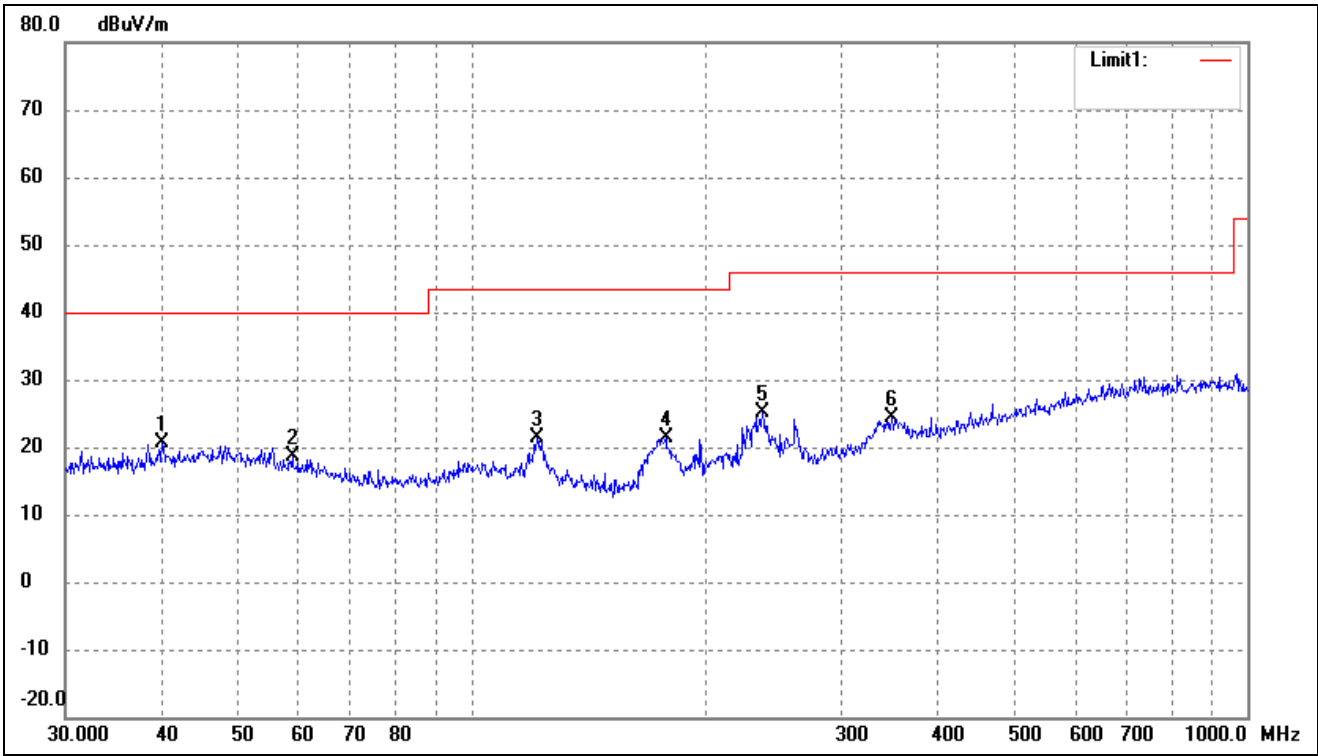
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	41.1320	26.93	-6.99	19.94	40.00	-20.06	-	-	peak
2	122.4040	30.37	-10.05	20.32	43.50	-23.18	-	-	peak
3	197.2001	32.09	-9.79	22.30	43.50	-21.20	-	-	peak
4	237.4760	32.70	-8.66	24.04	46.00	-21.96	-	-	peak
5	339.5888	30.81	-5.72	25.09	46.00	-20.91	-	-	peak
6	522.7180	27.09	-0.92	26.17	46.00	-19.83	-	-	peak

802.11ac-HT80			
Test Channel	5775MHz(worst case)	Polarity:	Vertical



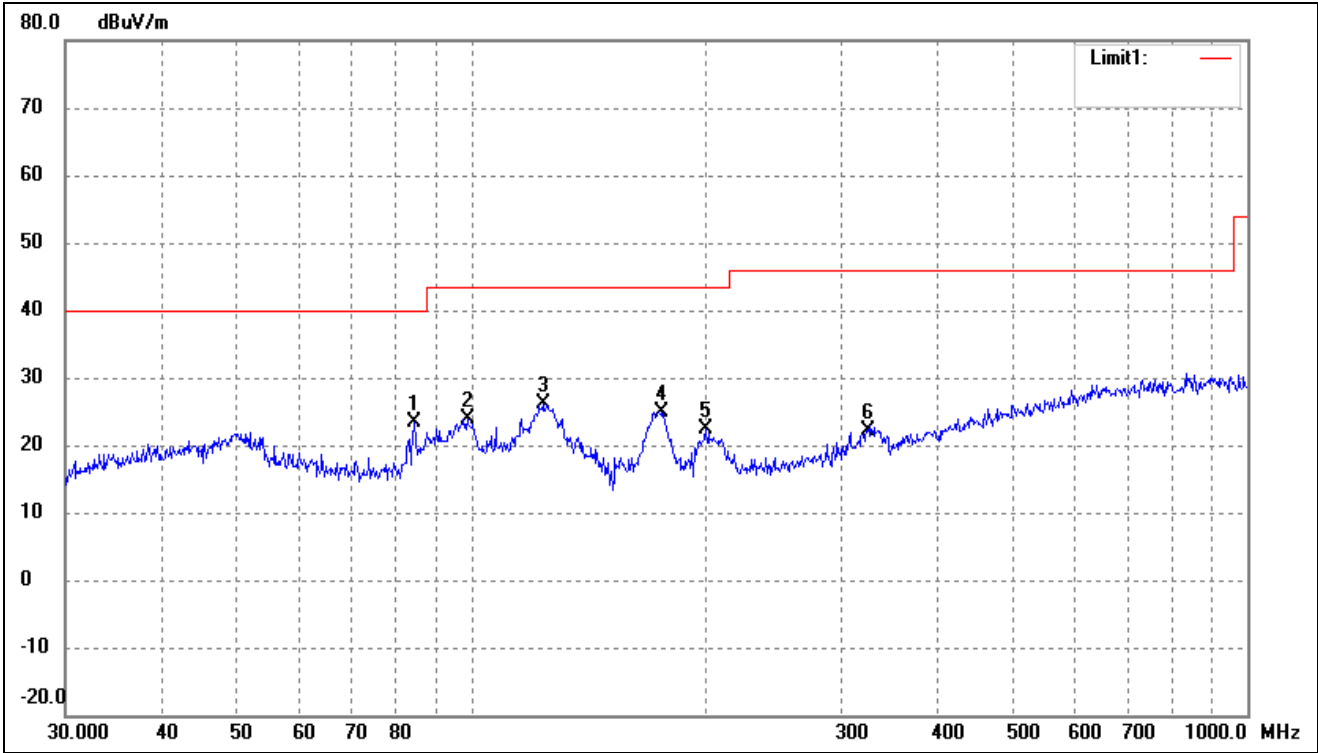
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	53.3179	29.62	-7.45	22.17	40.00	-17.83	-	-	peak
2	98.8326	32.68	-8.94	23.74	43.50	-19.76	-	-	peak
3	125.8864	36.87	-10.68	26.19	43.50	-17.31	-	-	peak
4	174.4241	37.08	-11.53	25.55	43.50	-17.95	-	-	peak
5	198.5880	32.25	-9.75	22.50	43.50	-21.00	-	-	peak
6	336.0352	30.09	-5.83	24.26	46.00	-21.74	-	-	peak

802.11ax-HE80			
Test Channel	5775MHz(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	39.9942	27.71	-7.00	20.71	40.00	-19.29	-	-	peak
2	58.8185	26.82	-8.25	18.57	40.00	-21.43	-	-	peak
3	121.5486	31.37	-9.88	21.49	43.50	-22.01	-	-	peak
4	178.1327	32.62	-11.36	21.26	43.50	-22.24	-	-	peak
5	237.4760	33.81	-8.66	25.15	46.00	-20.85	-	-	peak
6	348.0274	29.85	-5.46	24.39	46.00	-21.61	-	-	peak

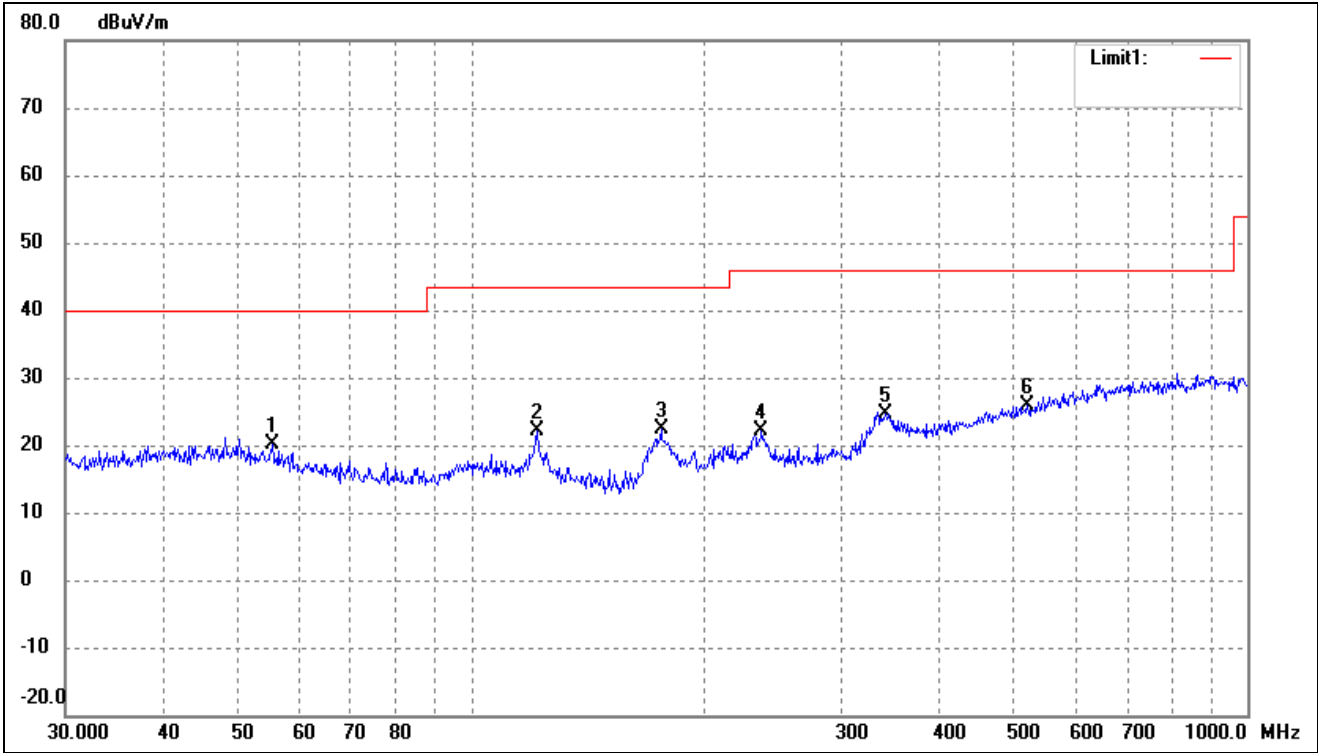
802.11ax-HE80			
Test Channel	5775MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	84.4054	33.92	-10.66	23.26	40.00	-16.74	-	-	peak
2	98.8326	32.91	-8.94	23.97	43.50	-19.53	-	-	peak
3	123.6985	36.42	-10.28	26.14	43.50	-17.36	-	-	peak
4	175.6516	36.40	-11.47	24.93	43.50	-18.57	-	-	peak
5	200.6881	32.00	-9.68	22.32	43.50	-21.18	-	-	peak
6	324.4561	28.27	-6.19	22.08	46.00	-23.92	-	-	peak

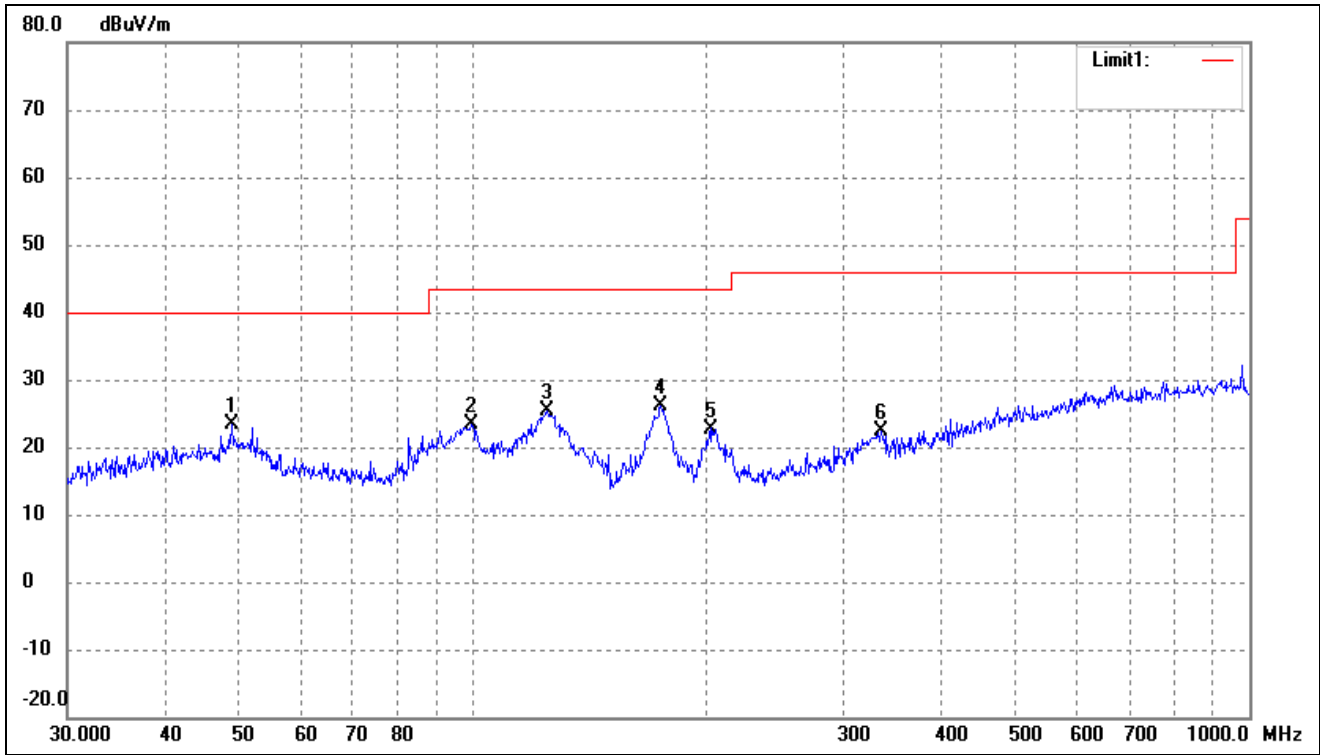
- Antenna 1
- 5150-5250MHz

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



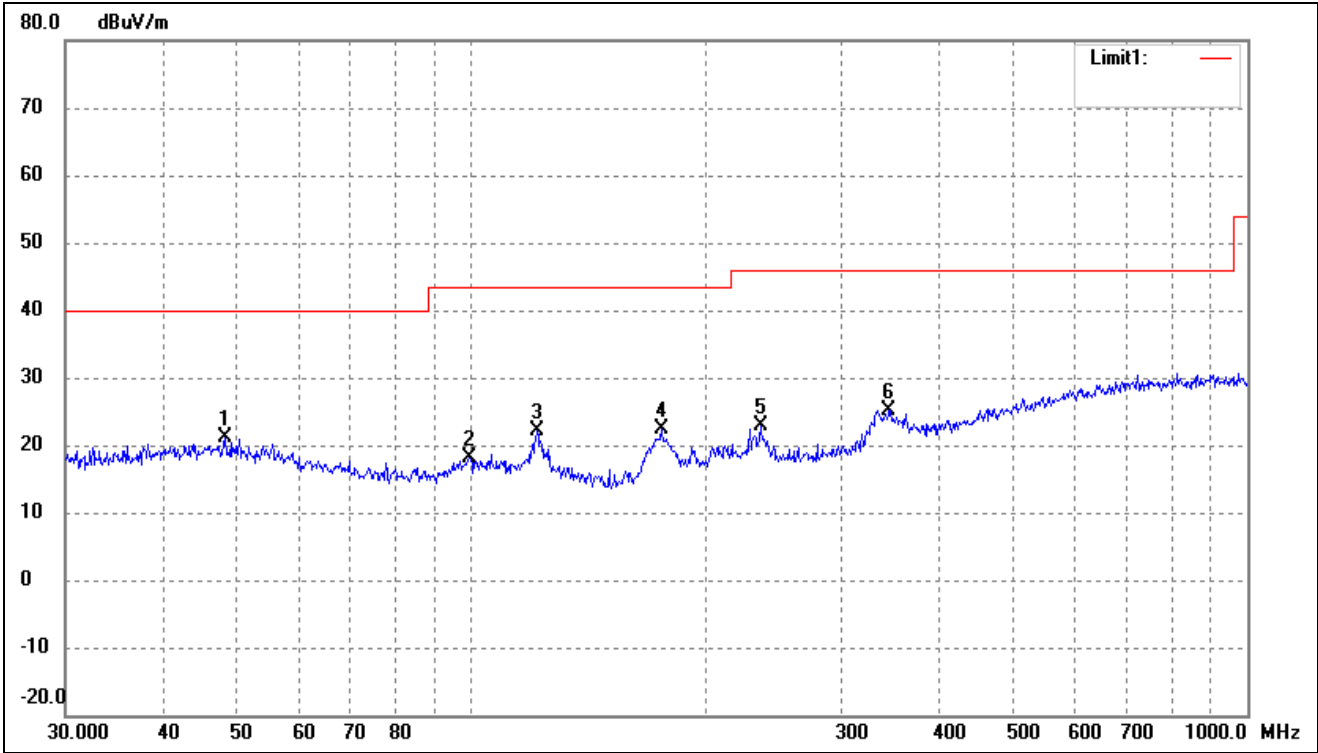
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	55.4147	27.79	-7.75	20.04	40.00	-19.96	-	-	peak
2	121.5486	31.92	-9.88	22.04	43.50	-21.46	-	-	peak
3	175.6516	33.79	-11.47	22.32	43.50	-21.18	-	-	peak
4	236.6447	30.85	-8.68	22.17	46.00	-23.83	-	-	peak
5	341.9787	30.35	-5.65	24.70	46.00	-21.30	-	-	peak
6	520.8882	26.70	-0.94	25.76	46.00	-20.24	-	-	peak

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



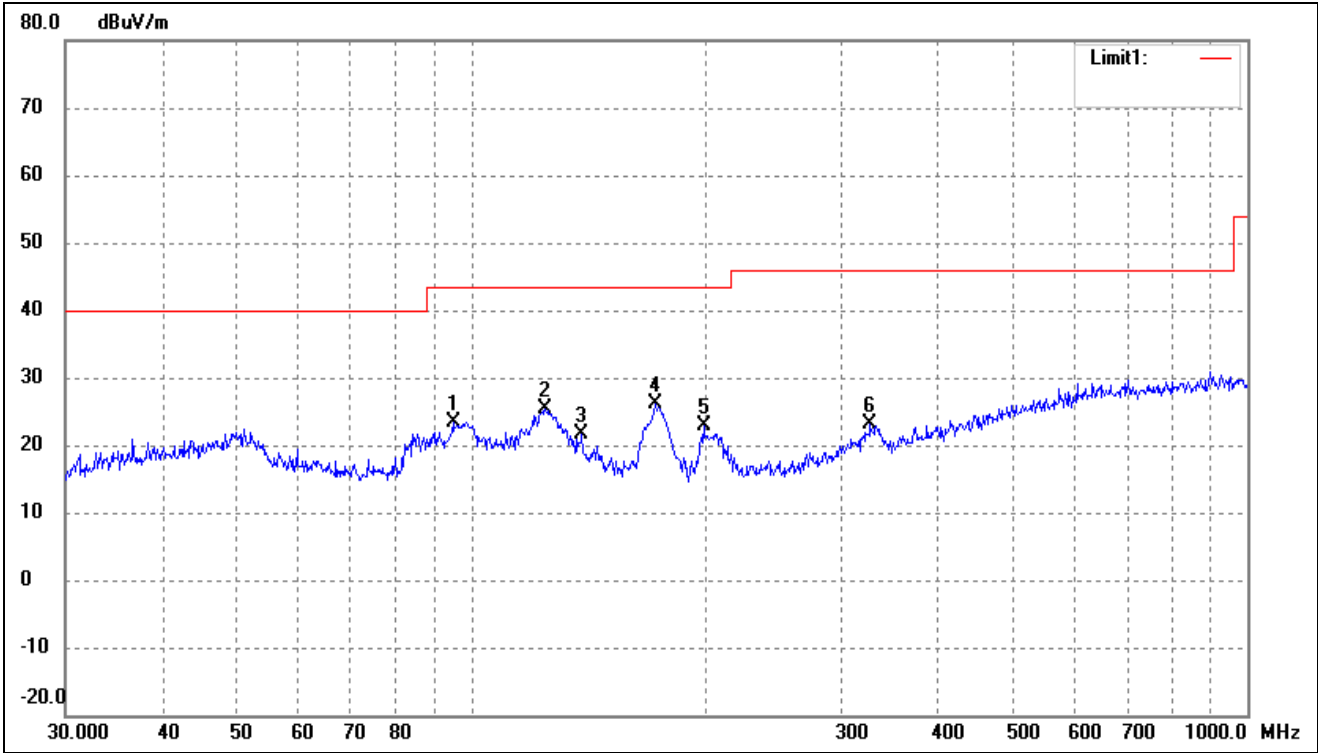
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.8429	30.47	-6.97	23.50	40.00	-16.50	-	-	peak
2	99.5281	32.09	-8.81	23.28	43.50	-20.22	-	-	peak
3	124.5690	35.84	-10.44	25.40	43.50	-18.10	-	-	peak
4	174.4241	37.67	-11.53	26.14	43.50	-17.36	-	-	peak
5	202.1005	32.40	-9.65	22.75	43.50	-20.75	-	-	peak
6	334.8589	28.27	-5.87	22.40	46.00	-23.60	-	-	peak

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



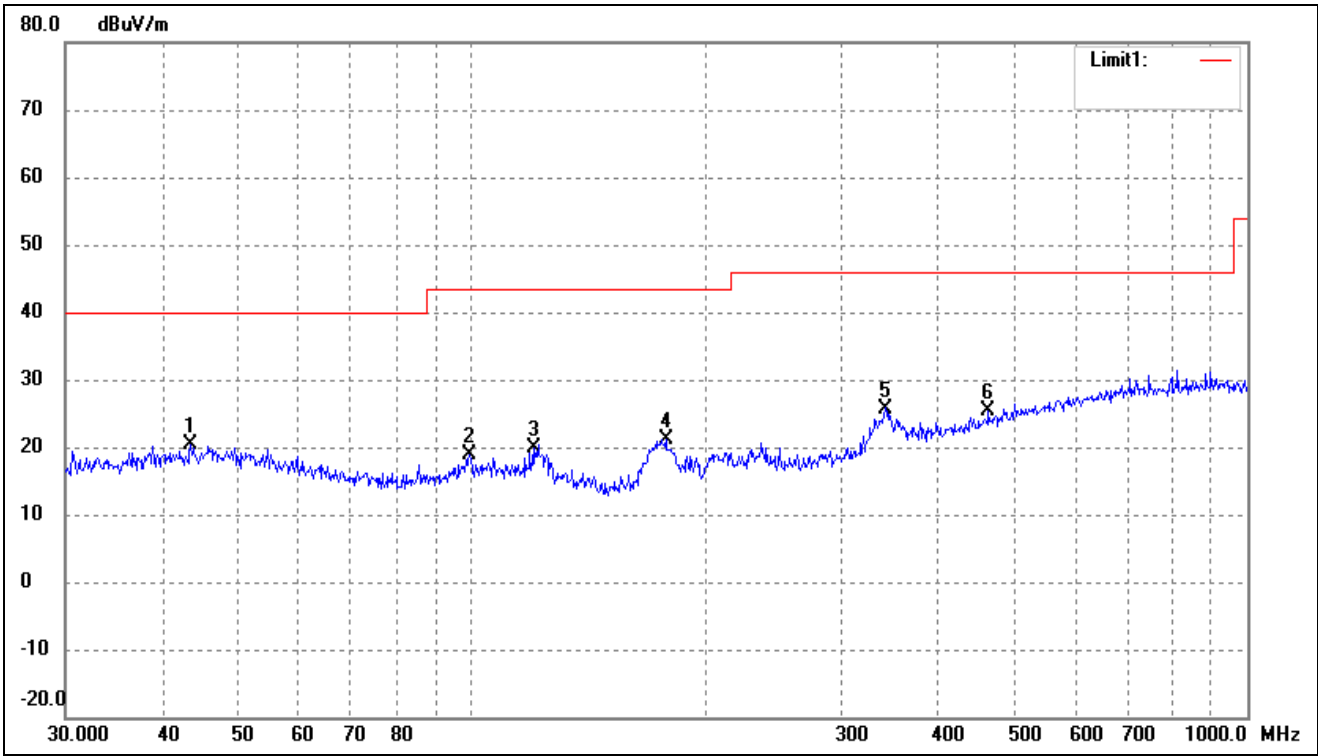
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.1626	28.09	-6.97	21.12	40.00	-18.88	-	-	peak
2	99.5281	26.97	-8.81	18.16	43.50	-25.34	-	-	peak
3	121.5486	31.92	-9.88	22.04	43.50	-21.46	-	-	peak
4	175.6516	33.79	-11.47	22.32	43.50	-21.18	-	-	peak
5	235.8164	31.48	-8.71	22.77	46.00	-23.23	-	-	peak
6	345.5952	30.68	-5.54	25.14	46.00	-20.86	-	-	peak

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



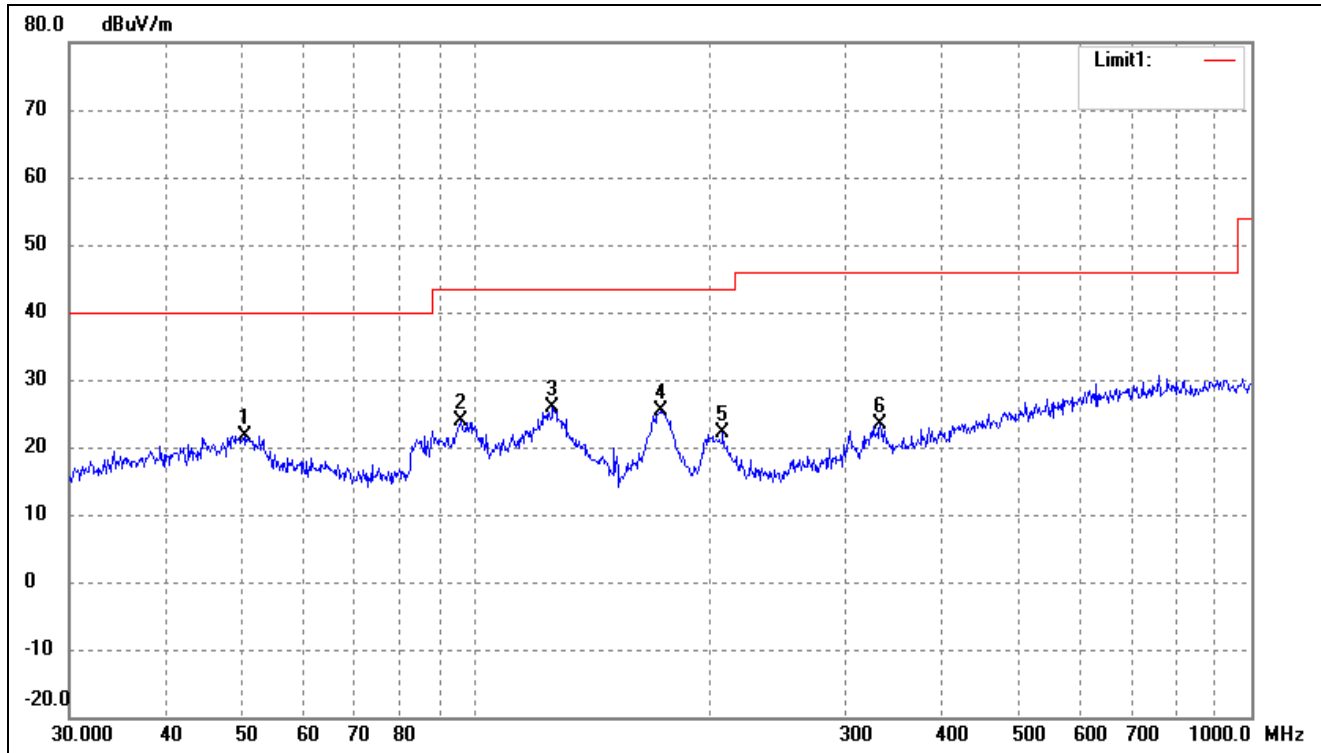
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	94.7601	33.11	-9.69	23.42	43.50	-20.08	-	-	peak
2	124.5690	35.77	-10.44	25.33	43.50	-18.17	-	-	peak
3	138.8735	33.84	-12.18	21.66	43.50	-21.84	-	-	peak
4	172.5988	37.74	-11.61	26.13	43.50	-17.37	-	-	peak
5	199.2855	32.53	-9.72	22.81	43.50	-20.69	-	-	peak
6	326.7395	29.16	-6.13	23.03	46.00	-22.97	-	-	peak

802.11ax-HE20			
Test Channel	5180MHz(worst case)	Polarity:	Horizontal



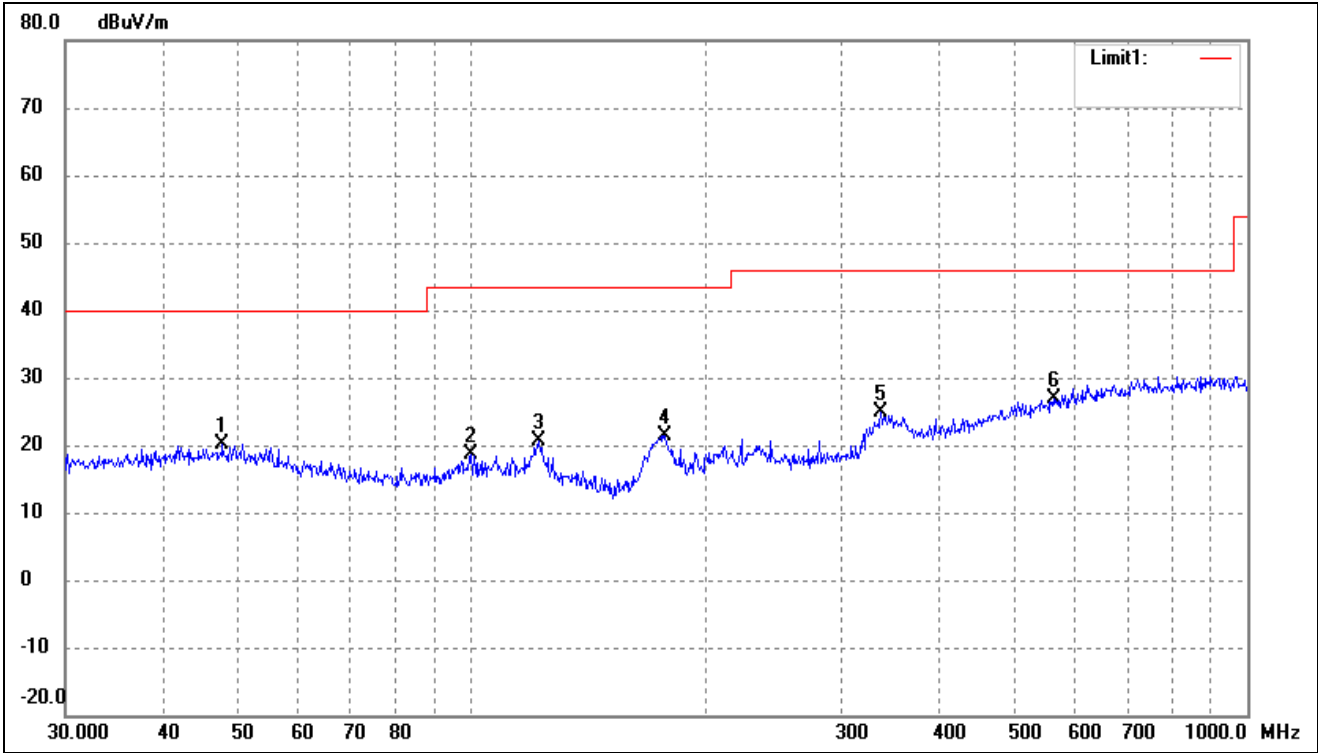
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	43.5057	27.37	-6.99	20.38	40.00	-19.62	-	-	peak
2	99.5281	27.78	-8.81	18.97	43.50	-24.53	-	-	peak
3	120.2766	29.49	-9.65	19.84	43.50	-23.66	-	-	peak
4	178.1327	32.59	-11.36	21.23	43.50	-22.27	-	-	peak
5	341.9787	31.40	-5.65	25.75	46.00	-20.25	-	-	peak
6	463.9696	27.63	-2.21	25.42	46.00	-20.58	-	-	peak

802.11ax-HE20			
Test Channel	5180MHz(worst case)	Polarity:	Vertical



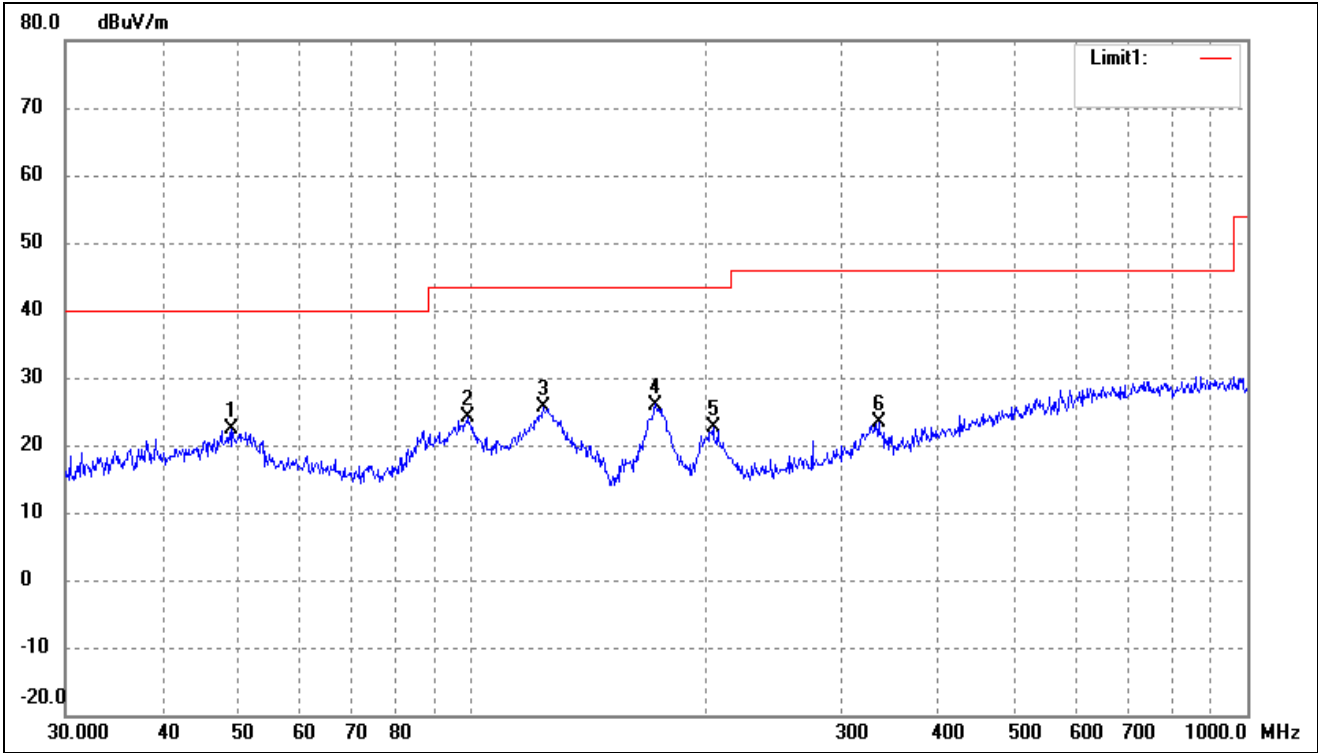
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.4089	28.70	-7.02	21.68	40.00	-18.32	-	-	peak
2	95.7622	33.29	-9.51	23.78	43.50	-19.72	-	-	peak
3	125.8864	36.61	-10.68	25.93	43.50	-17.57	-	-	peak
4	173.8135	36.81	-11.55	25.26	43.50	-18.24	-	-	peak
5	208.5803	31.59	-9.46	22.13	43.50	-21.37	-	-	peak
6	332.5187	29.23	-5.94	23.29	46.00	-22.71	-	-	peak

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



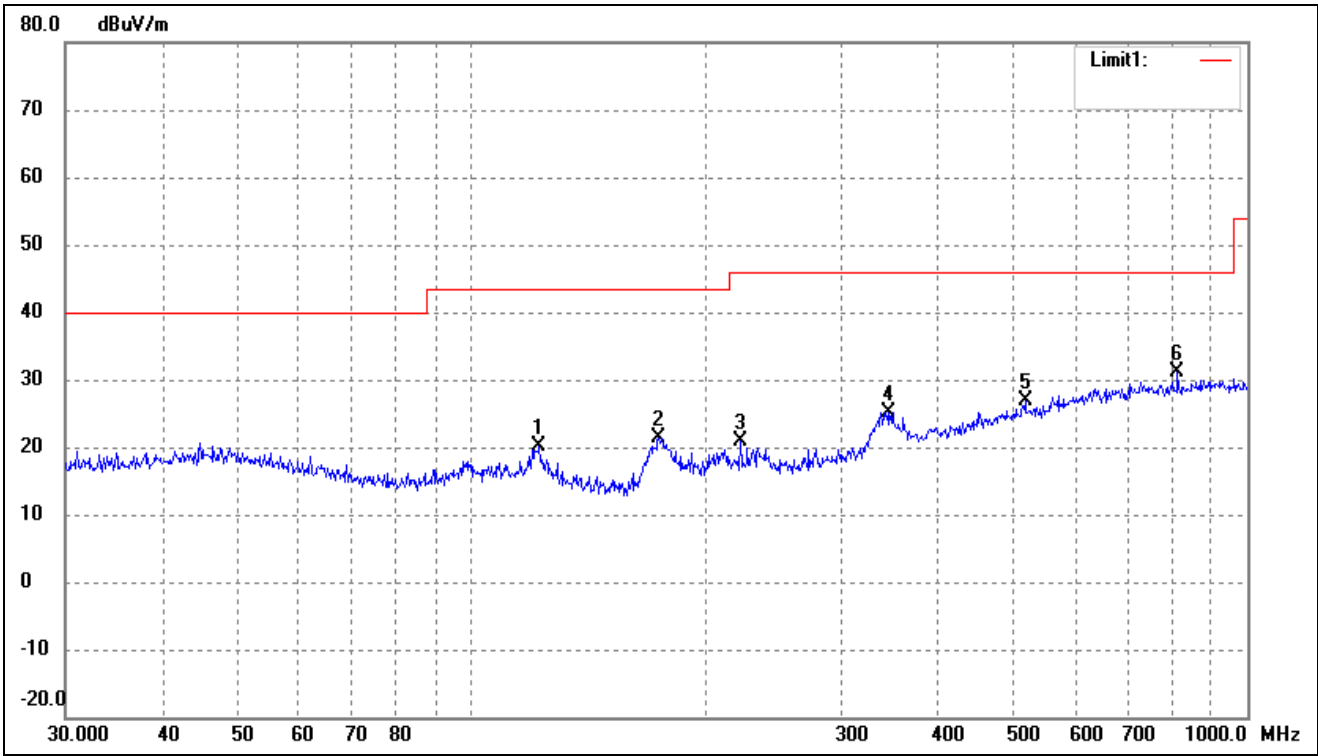
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	47.8260	27.18	-6.96	20.22	40.00	-19.78	-	-	peak
2	99.8777	27.32	-8.75	18.57	43.50	-24.93	-	-	peak
3	122.4040	30.78	-10.05	20.73	43.50	-22.77	-	-	peak
4	177.5092	32.78	-11.39	21.39	43.50	-22.11	-	-	peak
5	337.2155	30.70	-5.81	24.89	46.00	-21.11	-	-	peak
6	562.6624	27.05	-0.25	26.80	46.00	-19.20	-	-	peak

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



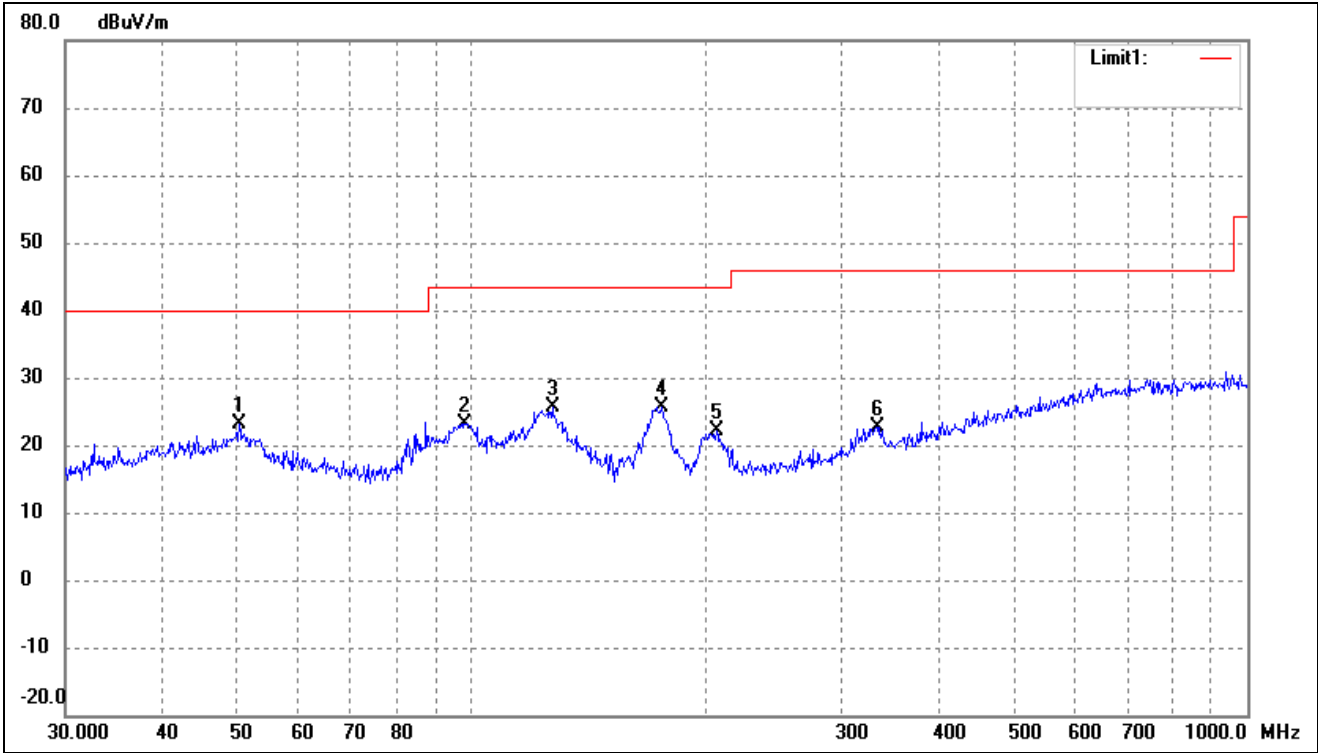
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.1866	29.34	-6.97	22.37	40.00	-17.63	-	-	peak
2	98.8326	33.04	-8.94	24.10	43.50	-19.40	-	-	peak
3	123.6985	35.82	-10.28	25.54	43.50	-17.96	-	-	peak
4	172.5988	37.61	-11.61	26.00	43.50	-17.50	-	-	peak
5	204.9551	32.18	-9.56	22.62	43.50	-20.88	-	-	peak
6	334.8589	29.35	-5.87	23.48	46.00	-22.52	-	-	peak

802.11ax-HE40			
Test Channel	5190MHz(worst case)	Polarity:	Horizontal



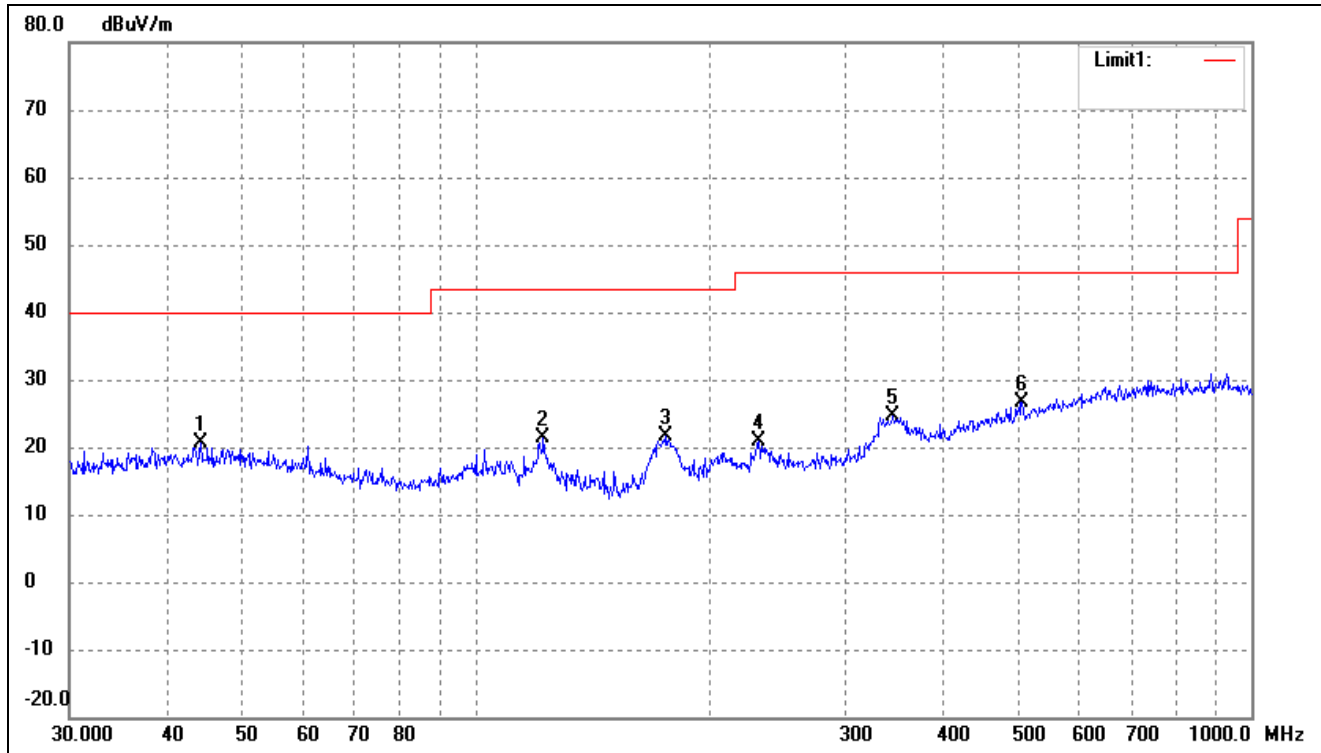
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	122.4040	30.07	-10.05	20.02	43.50	-23.48	-	-	peak
2	174.4241	33.03	-11.53	21.50	43.50	-22.00	-	-	peak
3	222.1698	29.89	-9.10	20.79	46.00	-25.21	-	-	peak
4	344.3855	30.71	-5.57	25.14	46.00	-20.86	-	-	peak
5	517.2480	27.87	-1.02	26.85	46.00	-19.15	-	-	peak
6	813.1116	28.91	2.17	31.08	46.00	-14.92	-	-	peak

802.11ax-HE40			
Test Channel	5190MHz(worst case)	Polarity:	Vertical



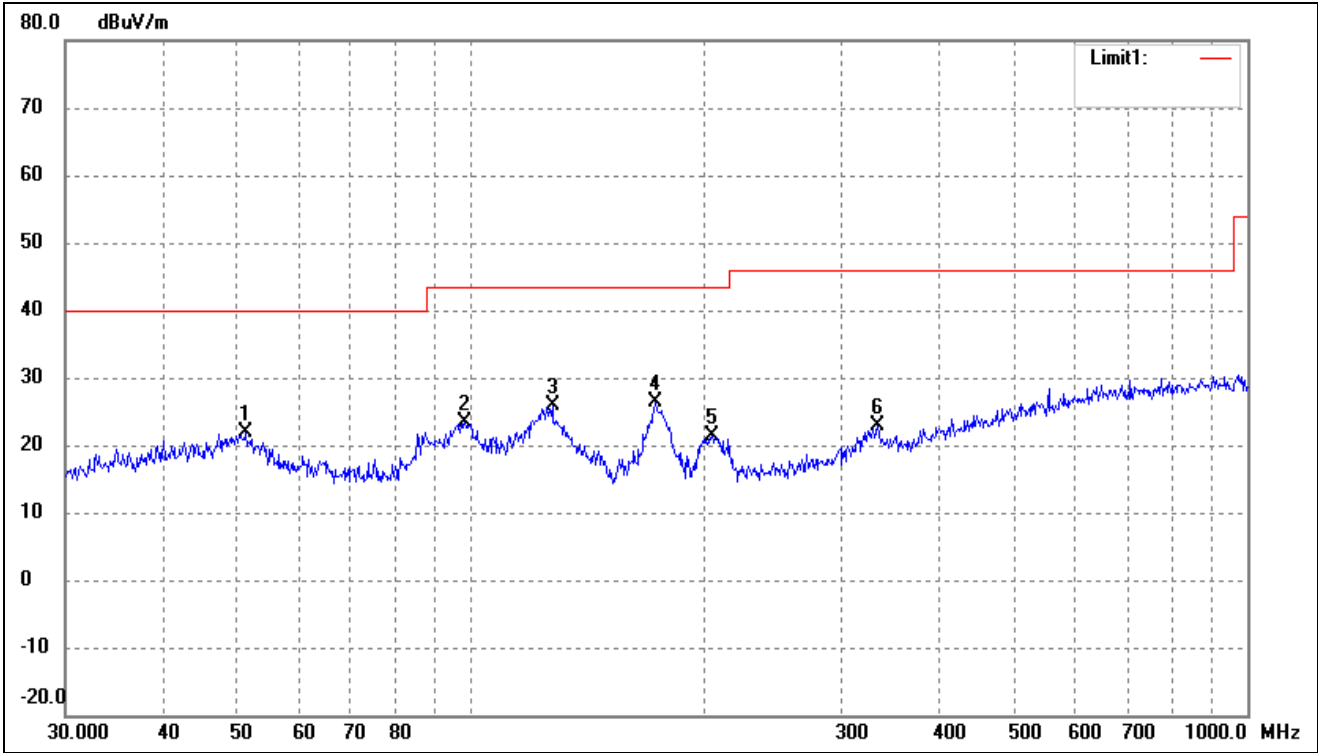
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.2325	30.24	-6.99	23.25	40.00	-16.75	-	-	peak
2	98.1419	32.23	-9.07	23.16	43.50	-20.34	-	-	peak
3	127.2176	36.47	-10.93	25.54	43.50	-17.96	-	-	peak
4	176.2686	37.06	-11.44	25.62	43.50	-17.88	-	-	peak
5	207.1226	31.61	-9.51	22.10	43.50	-21.40	-	-	peak
6	333.6867	28.50	-5.91	22.59	46.00	-23.41	-	-	peak

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



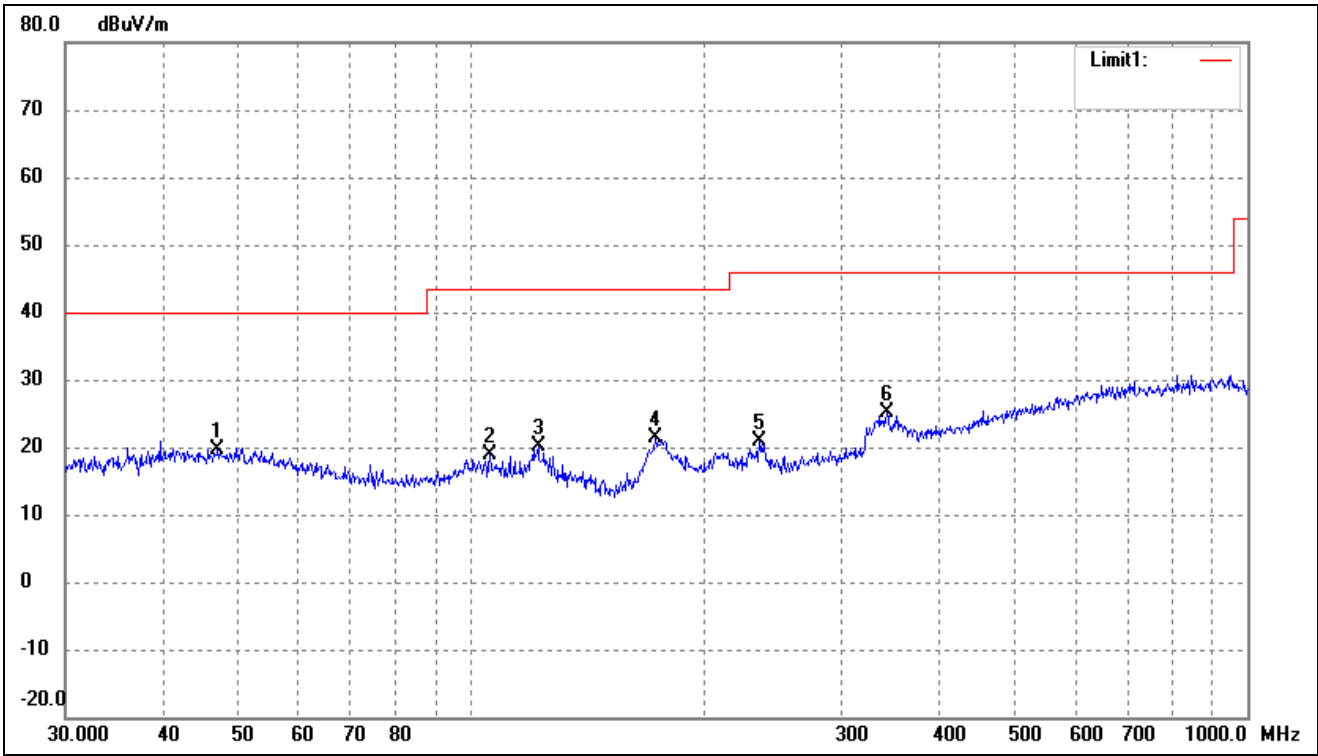
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	44.2752	27.56	-6.98	20.58	40.00	-19.42	-	-	peak
2	122.4040	31.40	-10.05	21.35	43.50	-22.15	-	-	peak
3	176.2686	32.96	-11.44	21.52	43.50	-21.98	-	-	peak
4	231.7179	29.60	-8.83	20.77	46.00	-25.23	-	-	peak
5	345.5952	30.15	-5.54	24.61	46.00	-21.39	-	-	peak
6	506.4791	27.86	-1.20	26.66	46.00	-19.34	-	-	peak

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



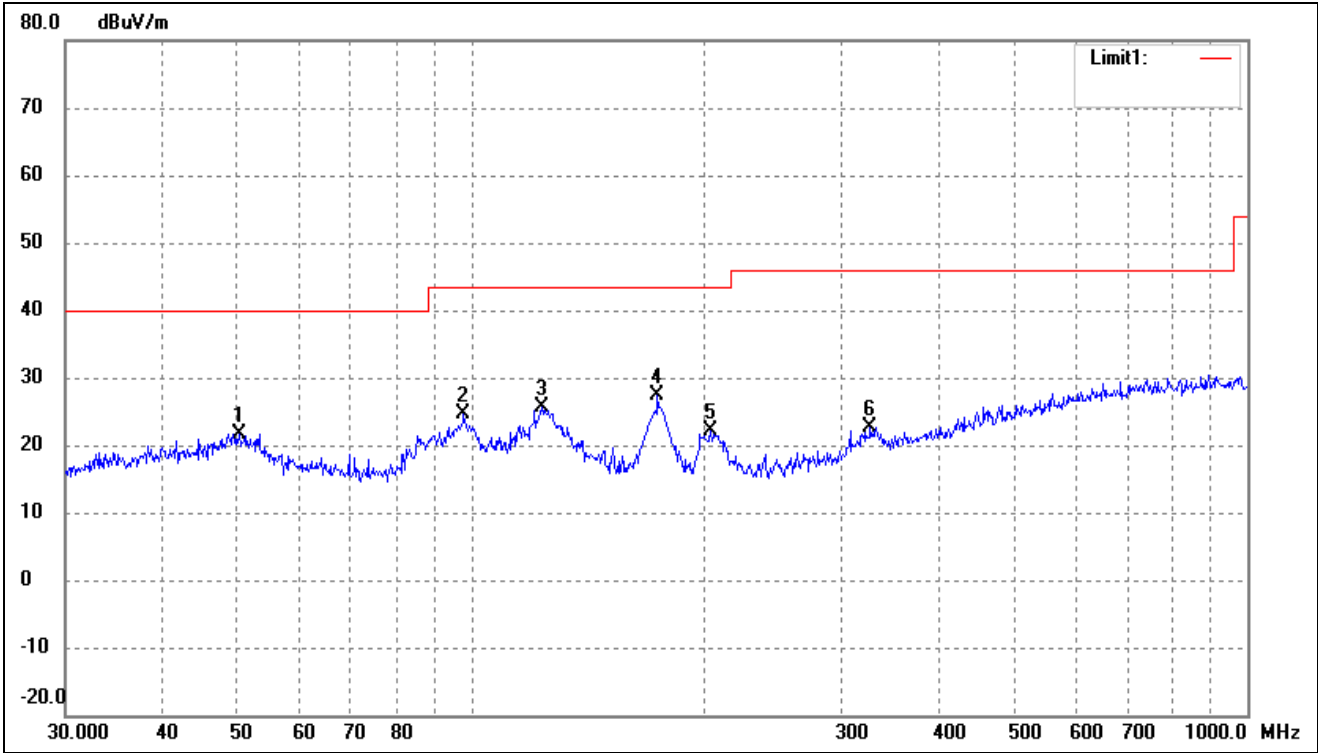
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	51.3005	29.03	-7.15	21.88	40.00	-18.12	-	-	peak
2	98.1419	32.43	-9.07	23.36	43.50	-20.14	-	-	peak
3	127.2176	36.76	-10.93	25.83	43.50	-17.67	-	-	peak
4	172.5988	37.88	-11.61	26.27	43.50	-17.23	-	-	peak
5	204.2377	31.03	-9.58	21.45	43.50	-22.05	-	-	peak
6	333.6867	28.86	-5.91	22.95	46.00	-23.05	-	-	peak

802.11ax-HE80			
Test Channel	5210MHz(worst case)	Polarity:	Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	47.1599	26.50	-6.97	19.53	40.00	-20.47	-	-	peak
2	105.6415	27.60	-8.80	18.80	43.50	-24.70	-	-	peak
3	121.9755	29.99	-9.96	20.03	43.50	-23.47	-	-	peak
4	172.5988	32.95	-11.61	21.34	43.50	-22.16	-	-	peak
5	234.9909	29.73	-8.74	20.99	46.00	-25.01	-	-	peak
6	343.1800	30.77	-5.62	25.15	46.00	-20.85	-	-	peak

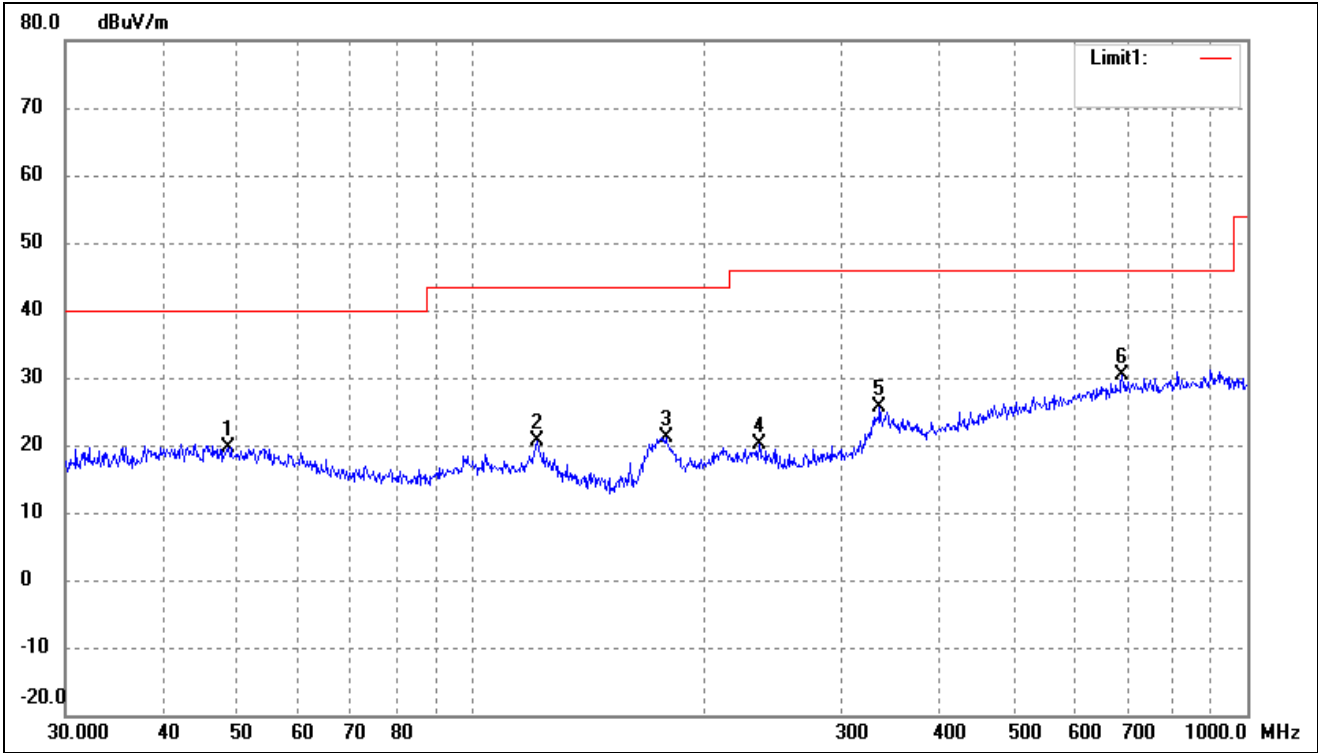
802.11ax-HE80			
Test Channel	5210MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.2325	28.59	-6.99	21.60	40.00	-18.40	-	-	peak
2	97.7983	33.64	-9.13	24.51	43.50	-18.99	-	-	peak
3	123.2655	35.86	-10.20	25.66	43.50	-17.84	-	-	peak
4	173.8135	39.03	-11.55	27.48	43.50	-16.02	-	-	peak
5	203.5228	31.62	-9.61	22.01	43.50	-21.49	-	-	peak
6	326.7395	28.77	-6.13	22.64	46.00	-23.36	-	-	peak

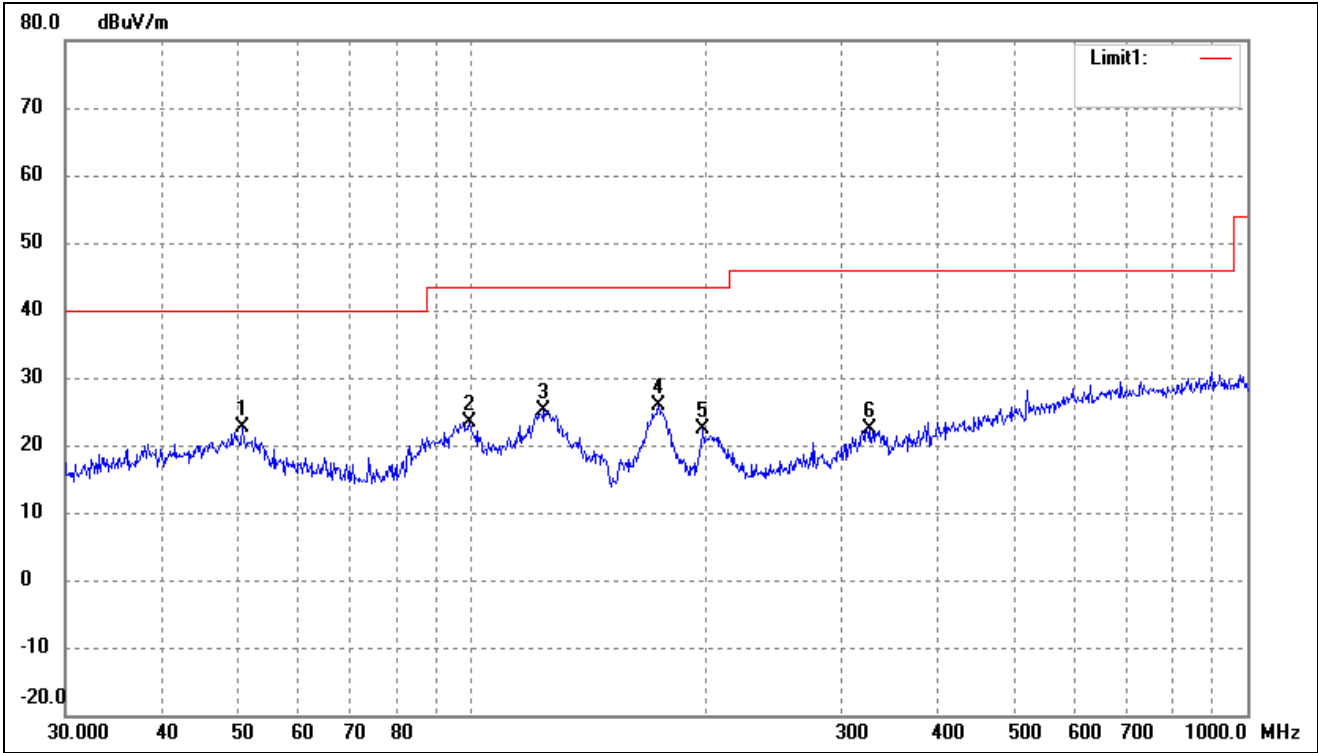
- Antenna 1
- 5725-5850MHz

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



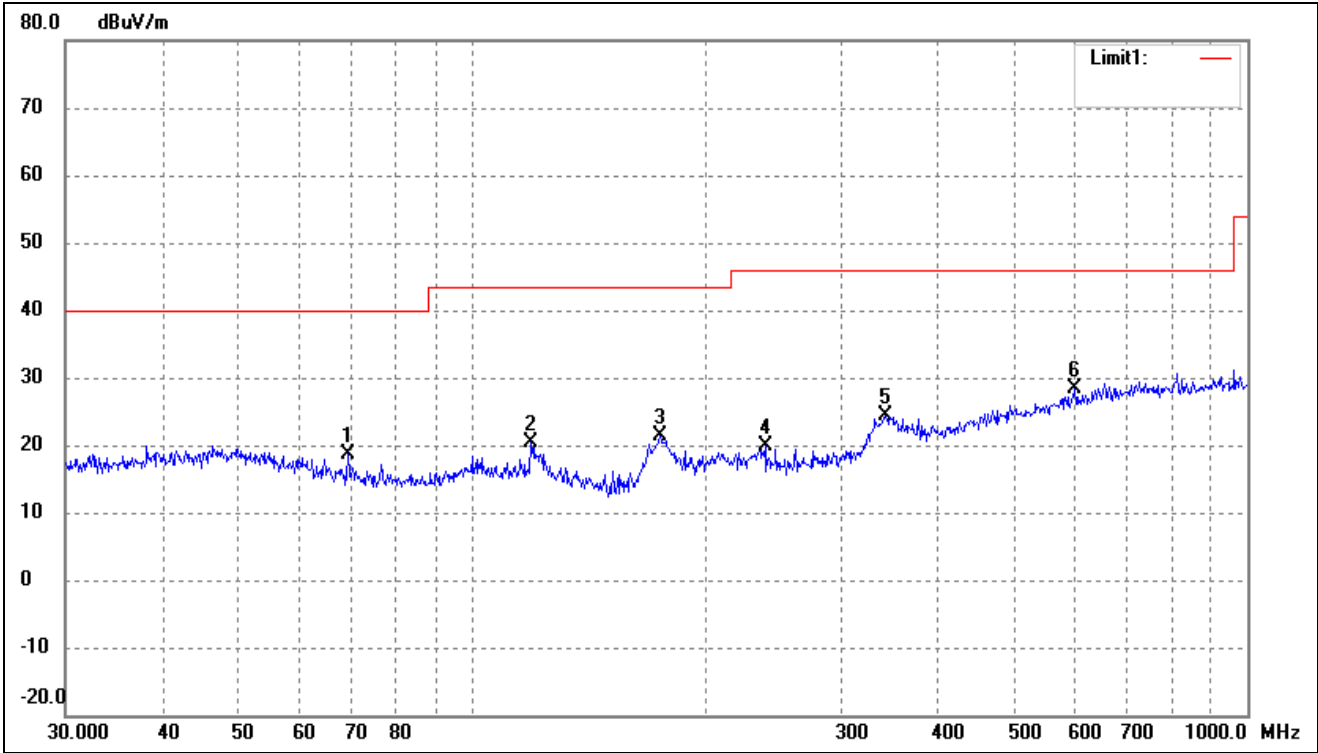
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.6719	26.71	-6.97	19.74	40.00	-20.26	-	-	peak
2	121.5486	30.40	-9.88	20.52	43.50	-22.98	-	-	peak
3	178.1327	32.53	-11.36	21.17	43.50	-22.33	-	-	peak
4	234.9909	28.77	-8.74	20.03	46.00	-25.97	-	-	peak
5	336.0352	31.36	-5.83	25.53	46.00	-20.47	-	-	peak
6	689.5644	29.03	1.33	30.36	46.00	-15.64	-	-	peak

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



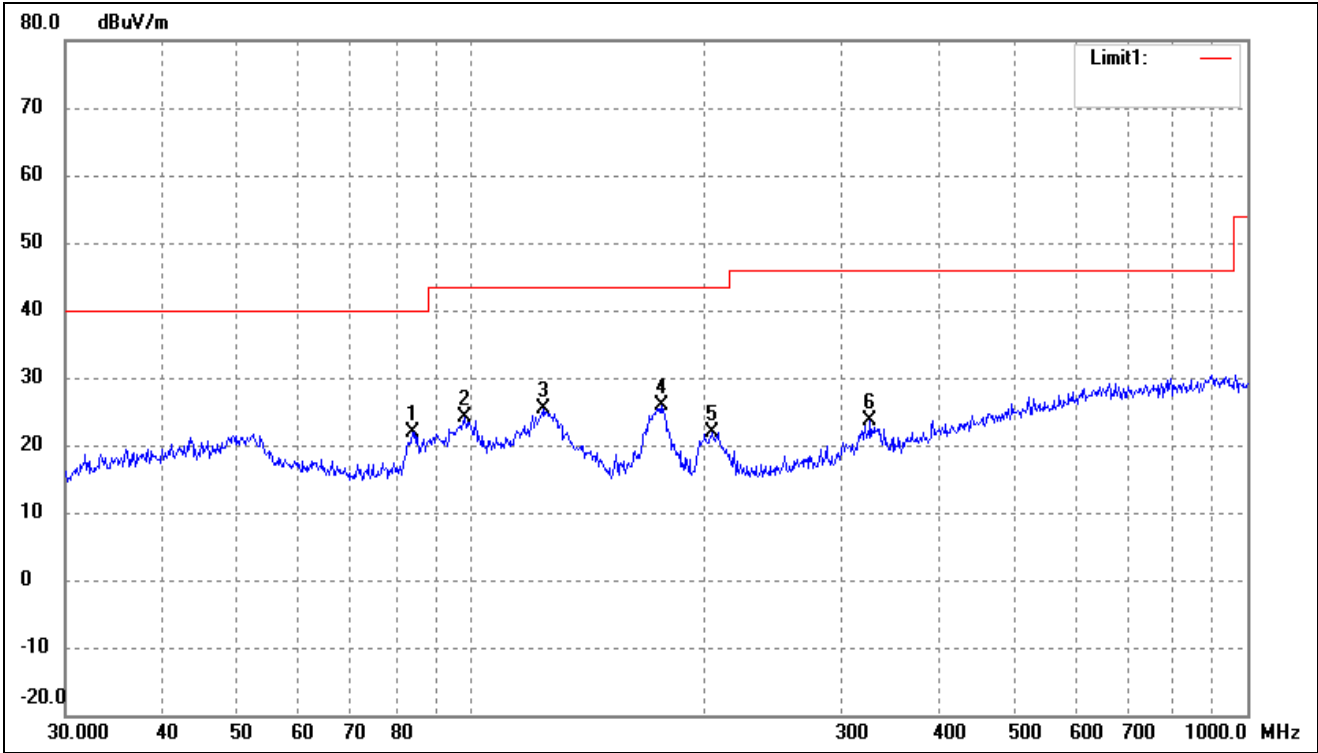
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.7637	29.81	-7.07	22.74	40.00	-17.26	-	-	peak
2	99.5281	32.23	-8.81	23.42	43.50	-20.08	-	-	peak
3	124.1330	35.54	-10.36	25.18	43.50	-18.32	-	-	peak
4	174.4241	37.49	-11.53	25.96	43.50	-17.54	-	-	peak
5	198.5880	32.21	-9.75	22.46	43.50	-21.04	-	-	peak
6	326.7395	28.60	-6.13	22.47	46.00	-23.53	-	-	peak

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



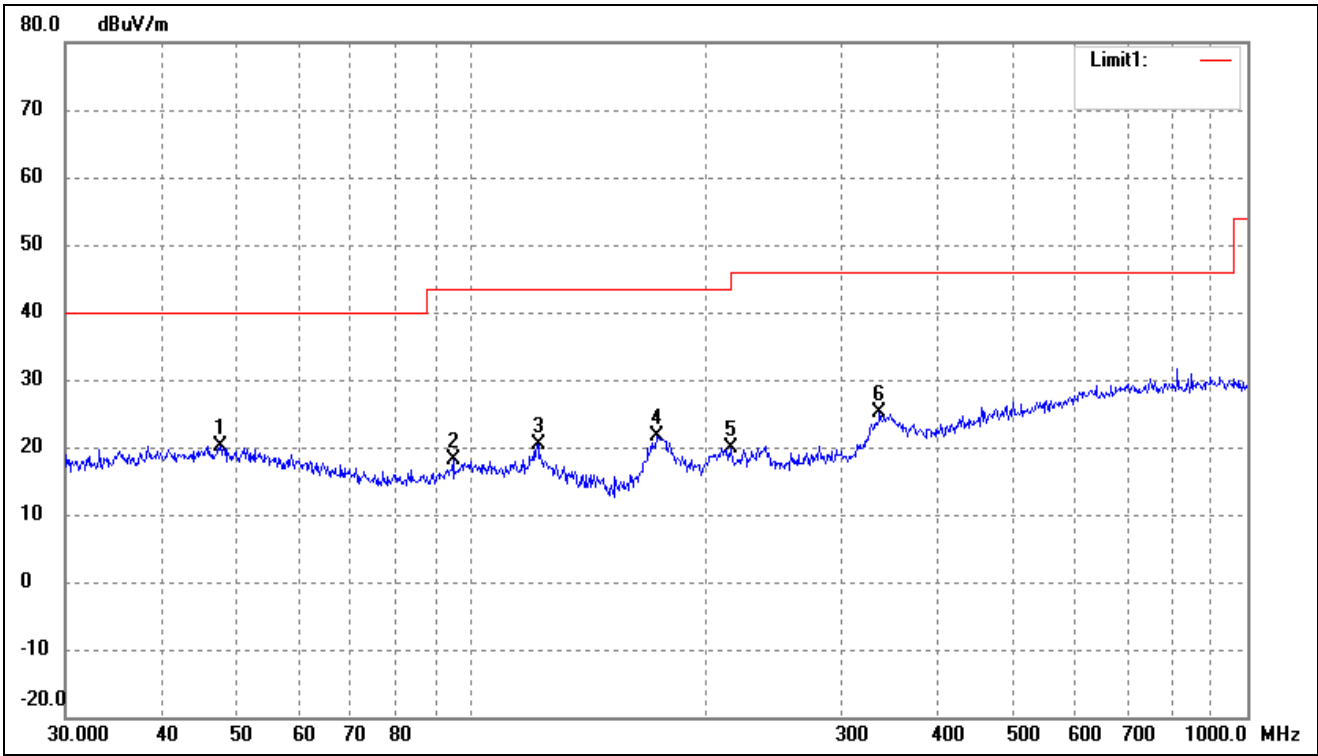
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	69.3568	28.58	-10.06	18.52	40.00	-21.48	-	-	peak
2	119.4361	29.84	-9.56	20.28	43.50	-23.22	-	-	peak
3	175.0368	32.76	-11.50	21.26	43.50	-22.24	-	-	peak
4	239.1473	28.47	-8.62	19.85	46.00	-26.15	-	-	peak
5	341.9787	29.97	-5.65	24.32	46.00	-21.68	-	-	peak
6	599.3213	28.11	0.36	28.47	46.00	-17.53	-	-	peak

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



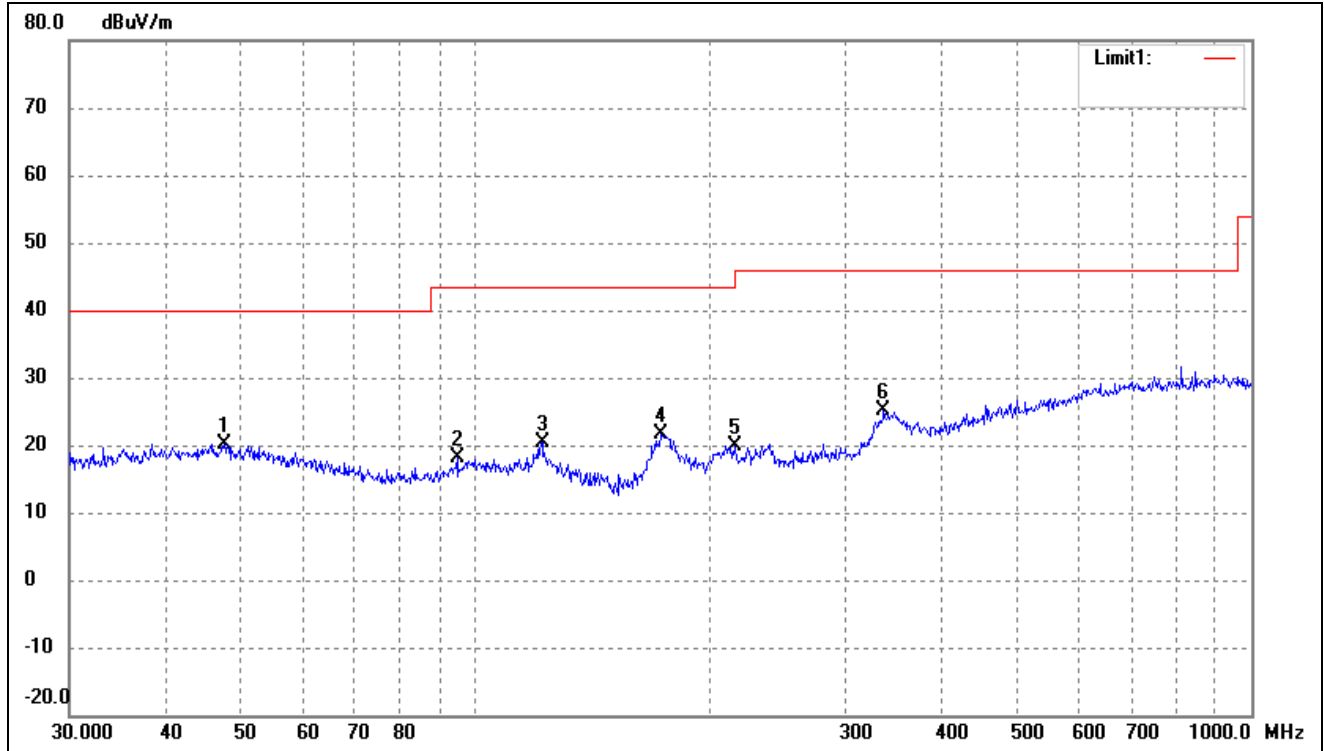
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	84.1100	32.60	-10.67	21.93	40.00	-18.07	-	-	peak
2	98.1419	33.13	-9.07	24.06	43.50	-19.44	-	-	peak
3	124.1330	35.68	-10.36	25.32	43.50	-18.18	-	-	peak
4	175.6516	37.38	-11.47	25.91	43.50	-17.59	-	-	peak
5	204.2377	31.49	-9.58	21.91	43.50	-21.59	-	-	peak
6	326.7395	29.80	-6.13	23.67	46.00	-22.33	-	-	peak

802.11ax-HE20			
Test Channel	5745MHz(worst case)	Polarity:	Horizontal



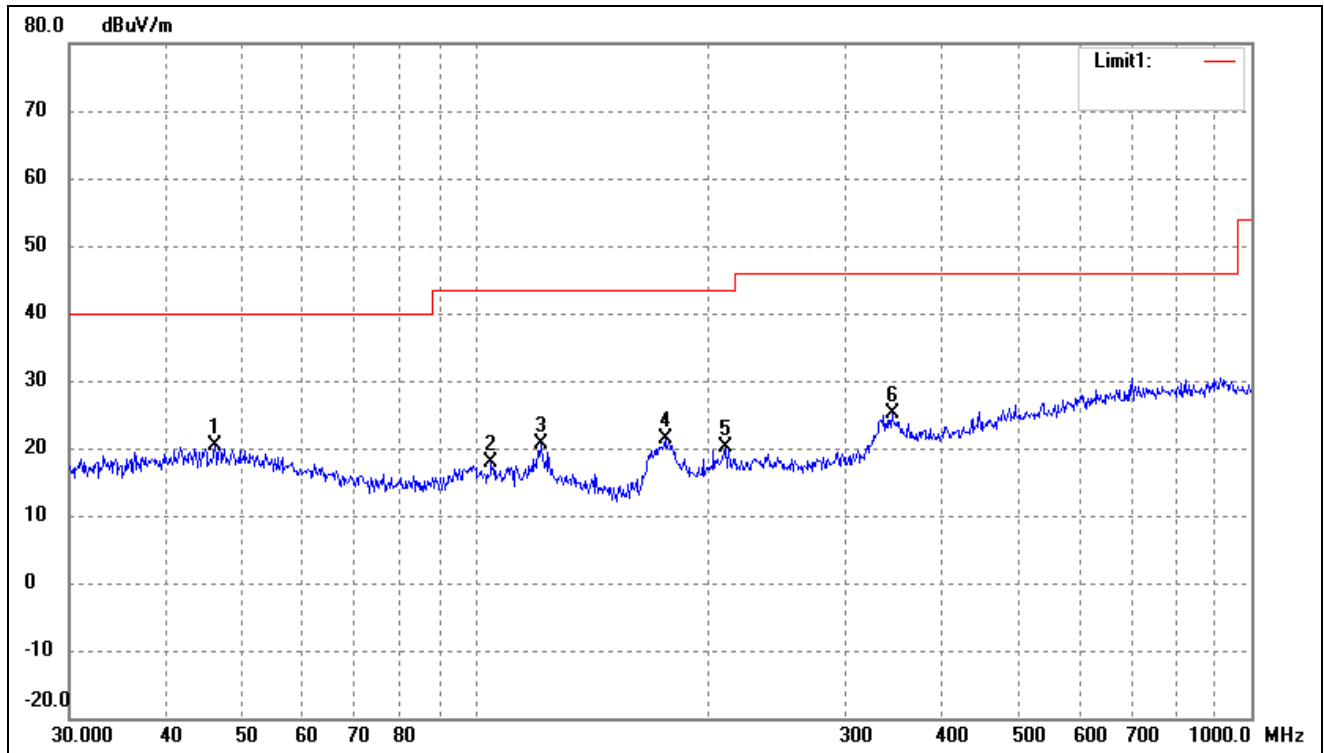
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	47.4918	27.14	-6.97	20.17	40.00	-19.83	-	-	peak
2	94.7601	27.85	-9.69	18.16	43.50	-25.34	-	-	peak
3	121.9755	30.43	-9.96	20.47	43.50	-23.03	-	-	peak
4	173.8135	33.22	-11.55	21.67	43.50	-21.83	-	-	peak
5	216.0240	29.22	-9.26	19.96	46.00	-26.04	-	-	peak
6	336.0352	30.96	-5.83	25.13	46.00	-20.87	-	-	peak

802.11ax-HE20			
Test Channel	5745MHz(worst case)	Polarity:	Vertical



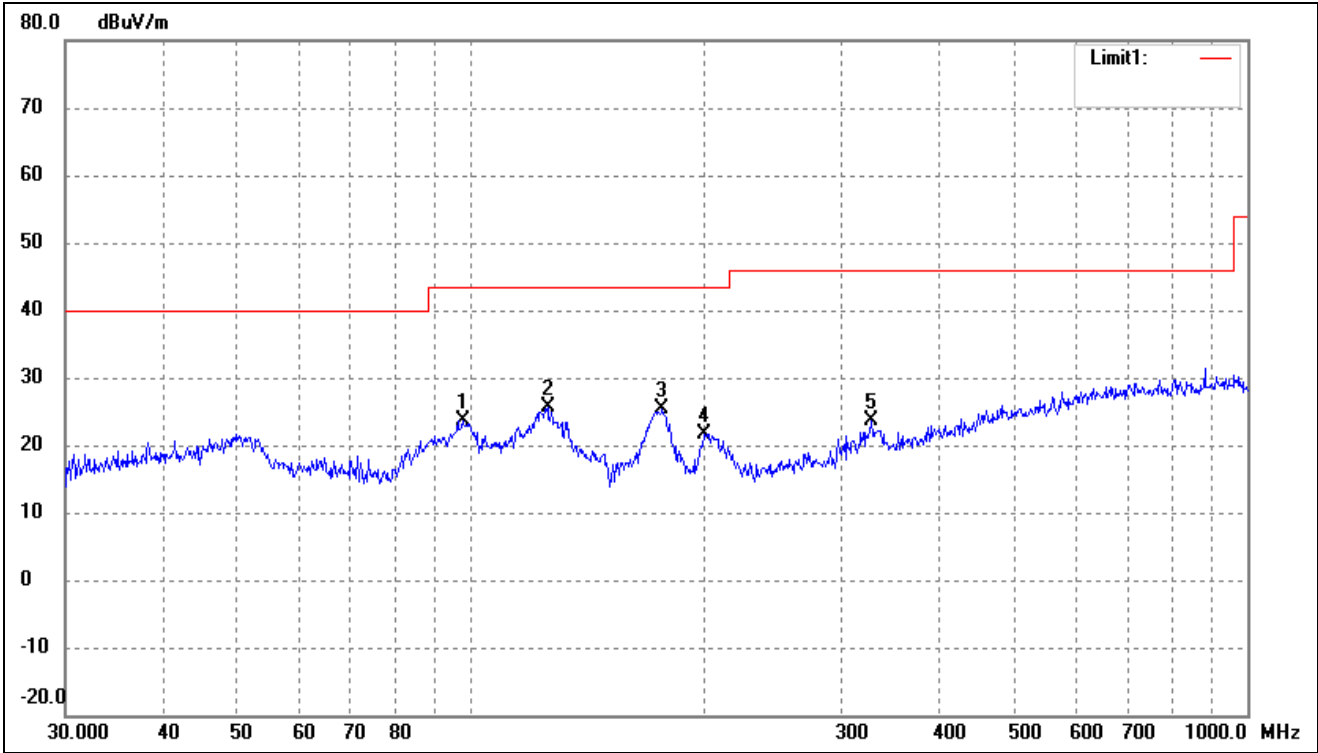
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	47.4918	27.14	-6.97	20.17	40.00	-19.83	-	-	peak
2	94.7601	27.85	-9.69	18.16	43.50	-25.34	-	-	peak
3	121.9755	30.43	-9.96	20.47	43.50	-23.03	-	-	peak
4	173.8135	33.22	-11.55	21.67	43.50	-21.83	-	-	peak
5	216.0240	29.22	-9.26	19.96	46.00	-26.04	-	-	peak
6	336.0352	30.96	-5.83	25.13	46.00	-20.87	-	-	peak

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



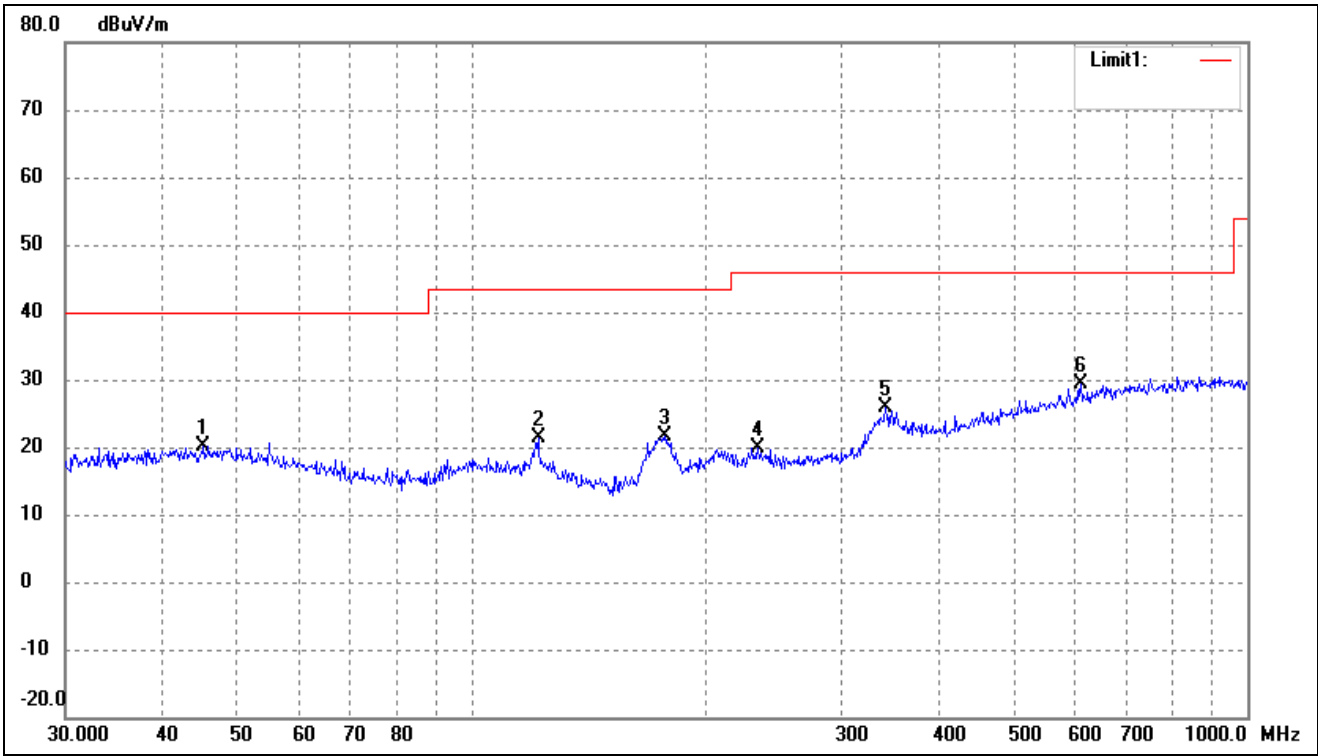
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	46.1780	27.43	-6.98	20.45	40.00	-19.55	-	-	peak
2	104.9033	26.71	-8.80	17.91	43.50	-25.59	-	-	peak
3	121.5486	30.61	-9.88	20.73	43.50	-22.77	-	-	peak
4	175.6516	32.83	-11.47	21.36	43.50	-22.14	-	-	peak
5	210.0482	29.50	-9.43	20.07	43.50	-23.43	-	-	peak
6	344.3855	30.66	-5.57	25.09	46.00	-20.91	-	-	peak

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



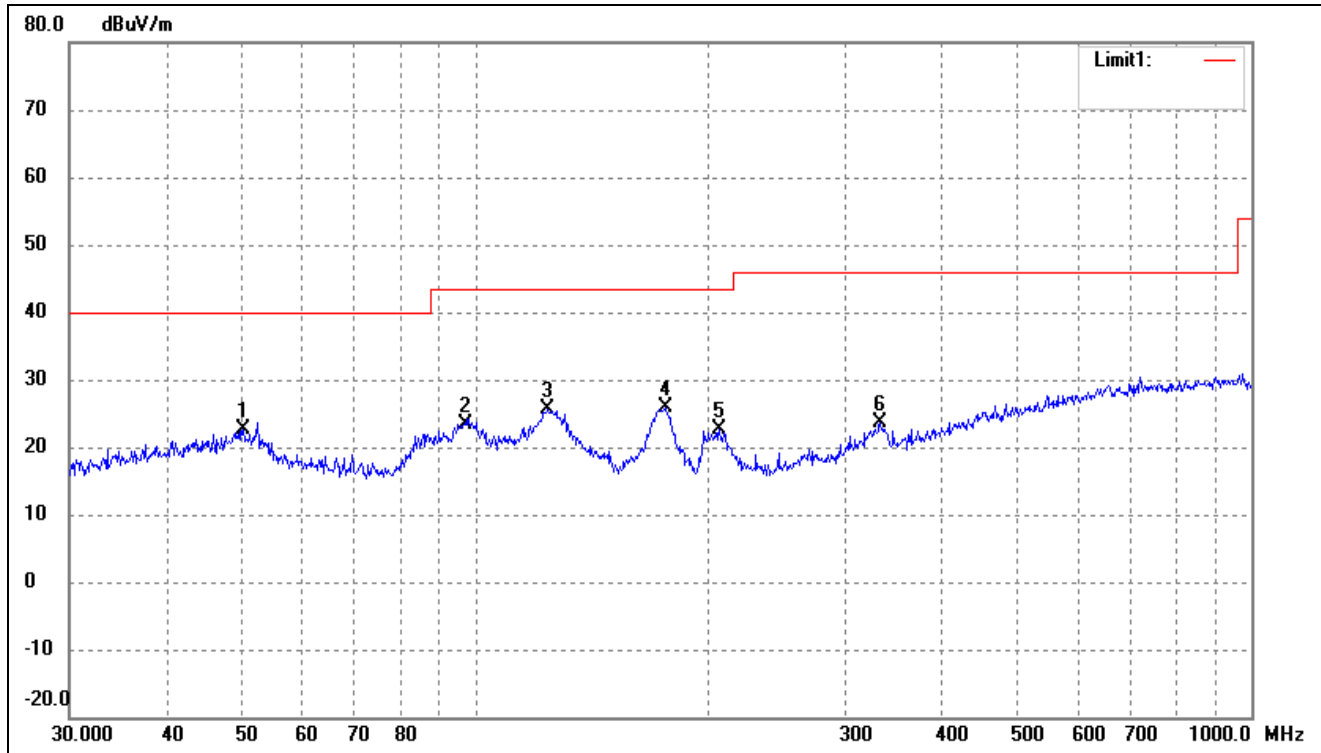
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	97.4560	32.90	-9.20	23.70	43.50	-19.80	-	-	peak
2	125.4457	36.32	-10.59	25.73	43.50	-17.77	-	-	peak
3	176.2686	36.75	-11.44	25.31	43.50	-18.19	-	-	peak
4	199.9856	31.42	-9.70	21.72	43.50	-21.78	-	-	peak
5	327.8873	29.60	-6.08	23.52	46.00	-22.48	-	-	peak

802.11ax-HE40			
Test Channel	5755MHz(worst case)	Polarity:	Horizontal



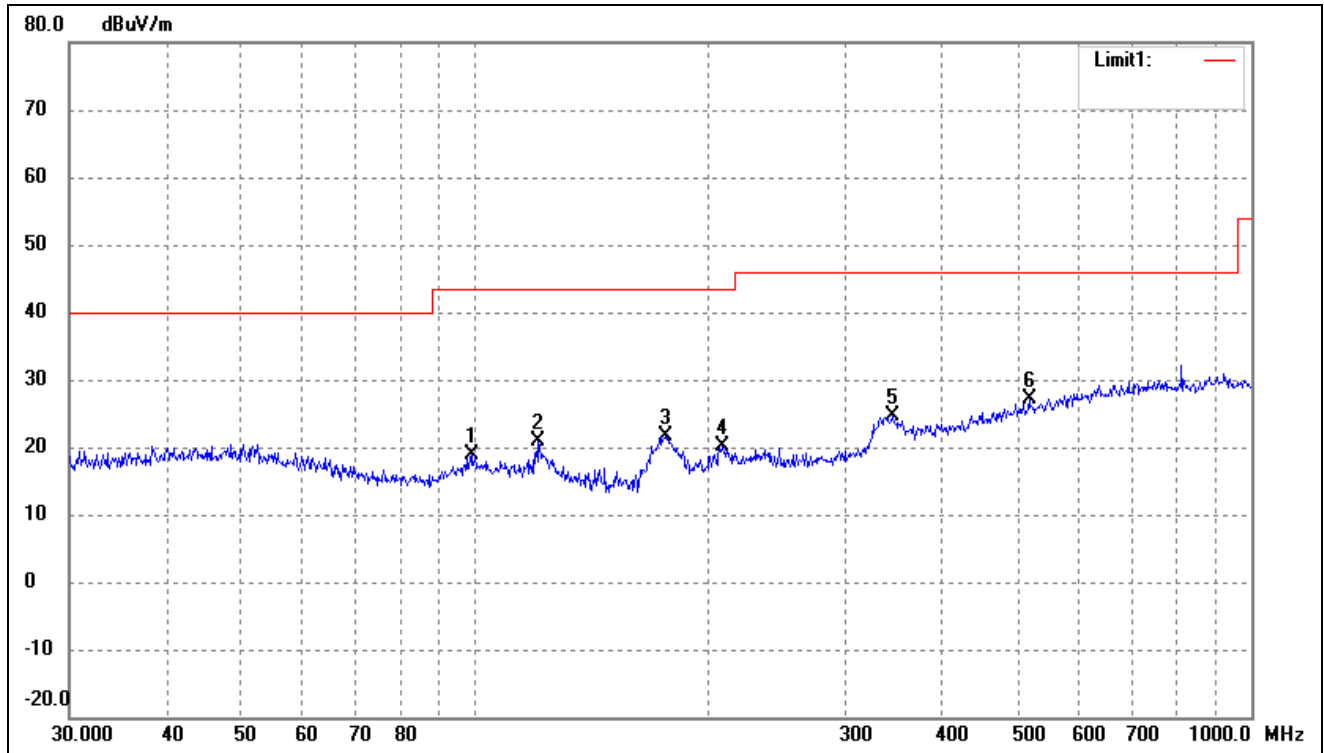
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	45.2166	27.21	-6.99	20.22	40.00	-19.78	-	-	peak
2	121.9755	31.33	-9.96	21.37	43.50	-22.13	-	-	peak
3	177.5092	32.97	-11.39	21.58	43.50	-21.92	-	-	peak
4	234.1684	28.67	-8.76	19.91	46.00	-26.09	-	-	peak
5	341.9787	31.51	-5.65	25.86	46.00	-20.14	-	-	peak
6	609.9217	29.00	0.48	29.48	46.00	-16.52	-	-	peak

802.11ax-HE40			
Test Channel	5755MHz(worst case)	Polarity:	Vertical



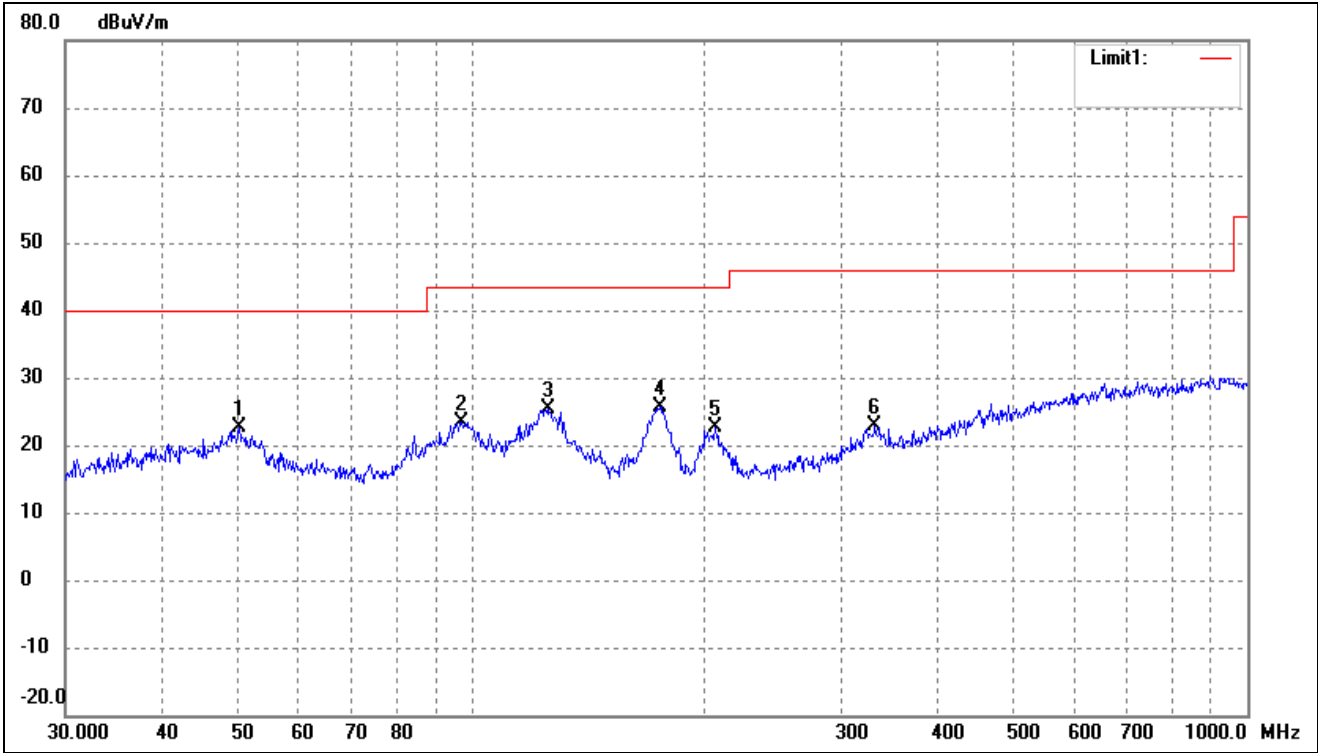
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.2325	29.63	-6.99	22.64	40.00	-17.36	-	-	peak
2	97.1148	32.76	-9.26	23.50	43.50	-20.00	-	-	peak
3	124.1330	35.87	-10.36	25.51	43.50	-17.99	-	-	peak
4	175.6516	37.27	-11.47	25.80	43.50	-17.70	-	-	peak
5	206.3976	32.04	-9.53	22.51	43.50	-20.99	-	-	peak
6	332.5187	29.68	-5.94	23.74	46.00	-22.26	-	-	peak

802.11ac-HT80			
Test Channel	5775MHz(worst case)	Polarity:	Horizontal



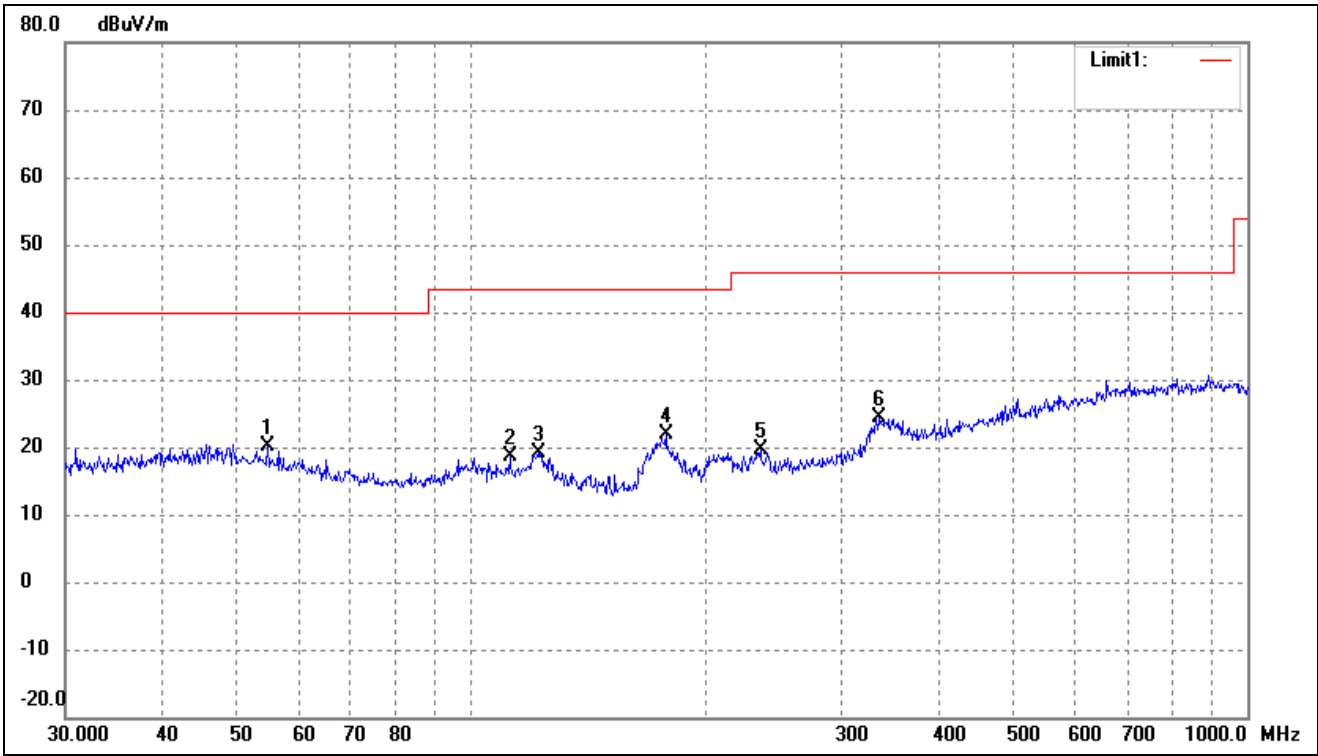
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	99.1797	27.67	-8.88	18.79	43.50	-24.71	-	-	peak
2	120.6991	30.59	-9.72	20.87	43.50	-22.63	-	-	peak
3	176.2686	33.12	-11.44	21.68	43.50	-21.82	-	-	peak
4	207.8501	29.56	-9.48	20.08	43.50	-23.42	-	-	peak
5	344.3855	30.20	-5.57	24.63	46.00	-21.37	-	-	peak
6	517.2480	28.18	-1.02	27.16	46.00	-18.84	-	-	peak

802.11ac-HT80			
Test Channel	5775MHz(worst case)	Polarity:	Vertical



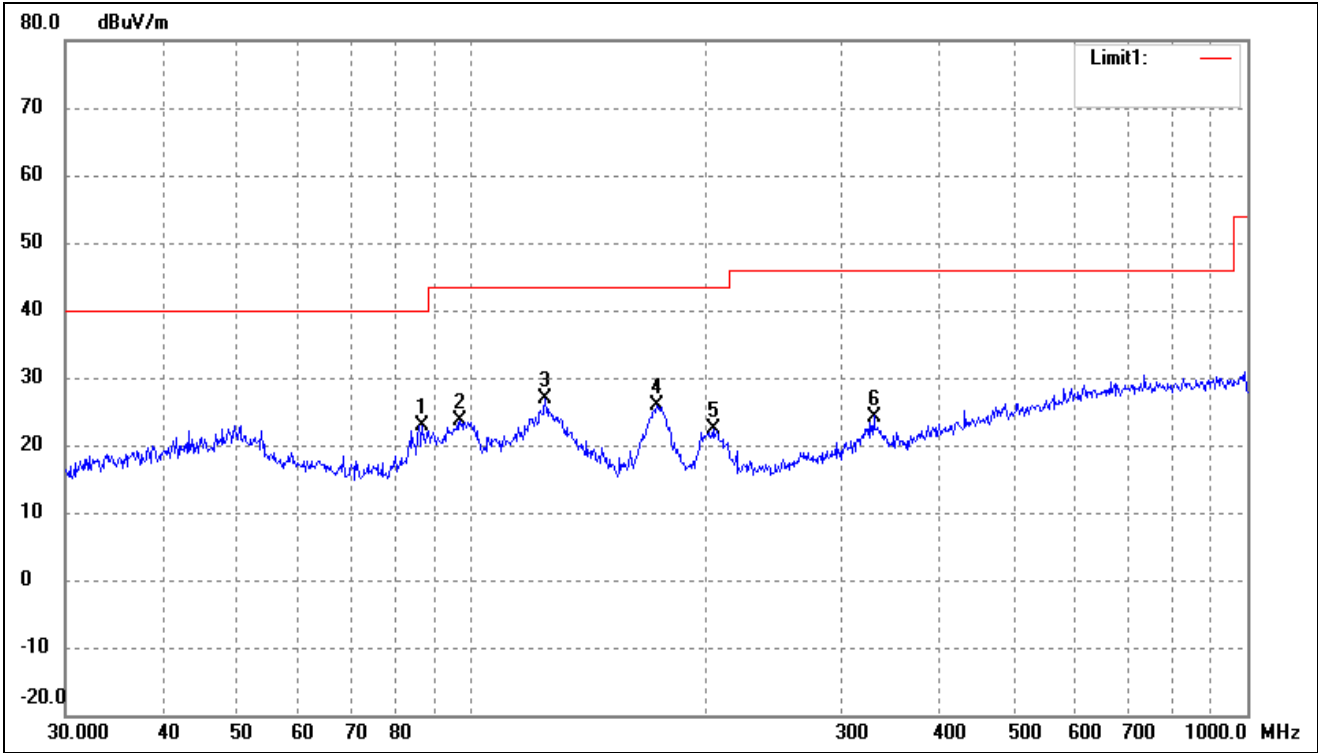
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.2325	29.63	-6.99	22.64	40.00	-17.36	-	-	peak
2	97.1148	32.76	-9.26	23.50	43.50	-20.00	-	-	peak
3	125.8864	36.00	-10.68	25.32	43.50	-18.18	-	-	peak
4	175.0368	37.12	-11.50	25.62	43.50	-17.88	-	-	peak
5	206.3976	32.04	-9.53	22.51	43.50	-20.99	-	-	peak
6	331.3547	28.76	-5.98	22.78	46.00	-23.22	-	-	peak

802.11ax-HE80			
Test Channel	5775MHz(worst case)	Polarity:	Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	54.6429	27.85	-7.64	20.21	40.00	-19.79	-	-	peak
2	112.1305	27.57	-9.02	18.55	43.50	-24.95	-	-	peak
3	121.9755	29.14	-9.96	19.18	43.50	-24.32	-	-	peak
4	178.1327	33.27	-11.36	21.91	43.50	-21.59	-	-	peak
5	235.8164	28.27	-8.71	19.56	46.00	-26.44	-	-	peak
6	334.8589	30.20	-5.87	24.33	46.00	-21.67	-	-	peak

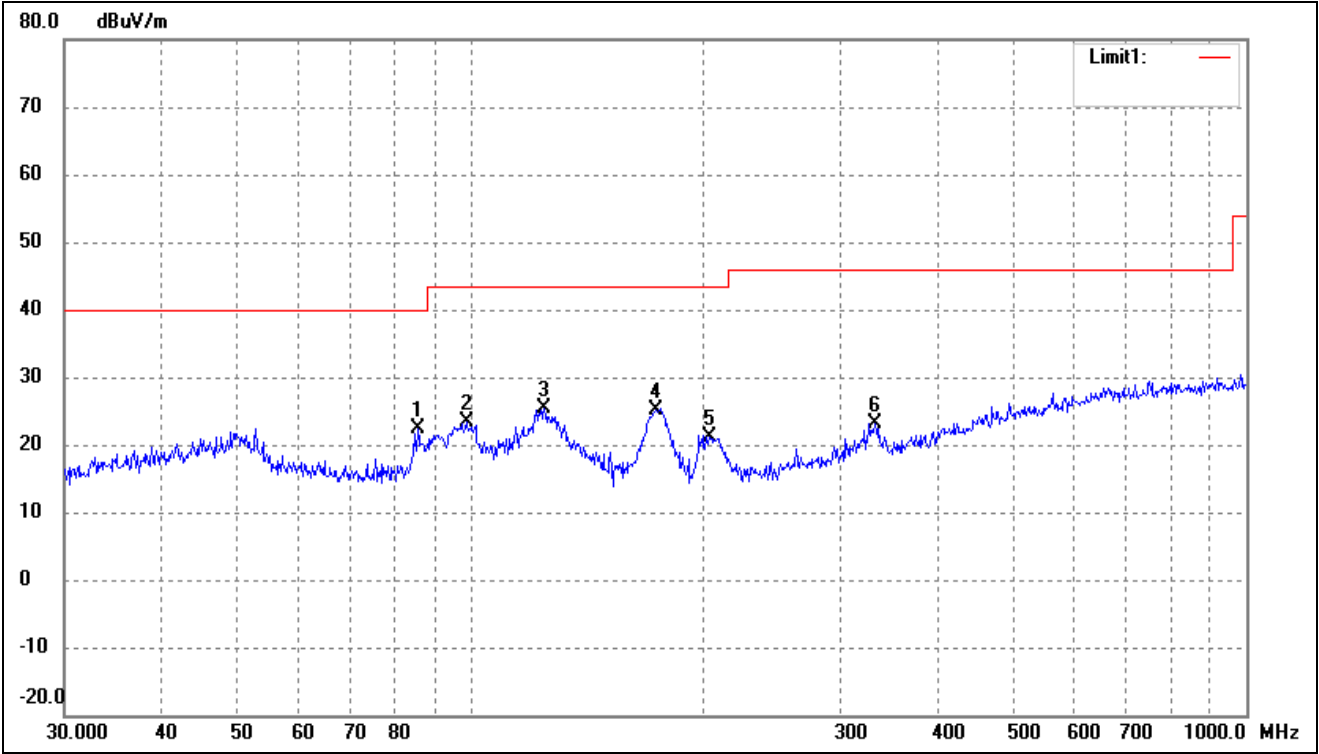
802.11ax-HE80			
Test Channel	5775MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	86.5029	33.60	-10.62	22.98	40.00	-17.02	-	-	peak
2	96.7749	32.97	-9.33	23.64	43.50	-19.86	-	-	peak
3	124.5690	37.40	-10.44	26.96	43.50	-16.54	-	-	peak
4	173.2051	37.50	-11.58	25.92	43.50	-17.58	-	-	peak
5	204.9551	31.93	-9.56	22.37	43.50	-21.13	-	-	peak
6	330.1949	30.27	-6.02	24.25	46.00	-21.75	-	-	peak

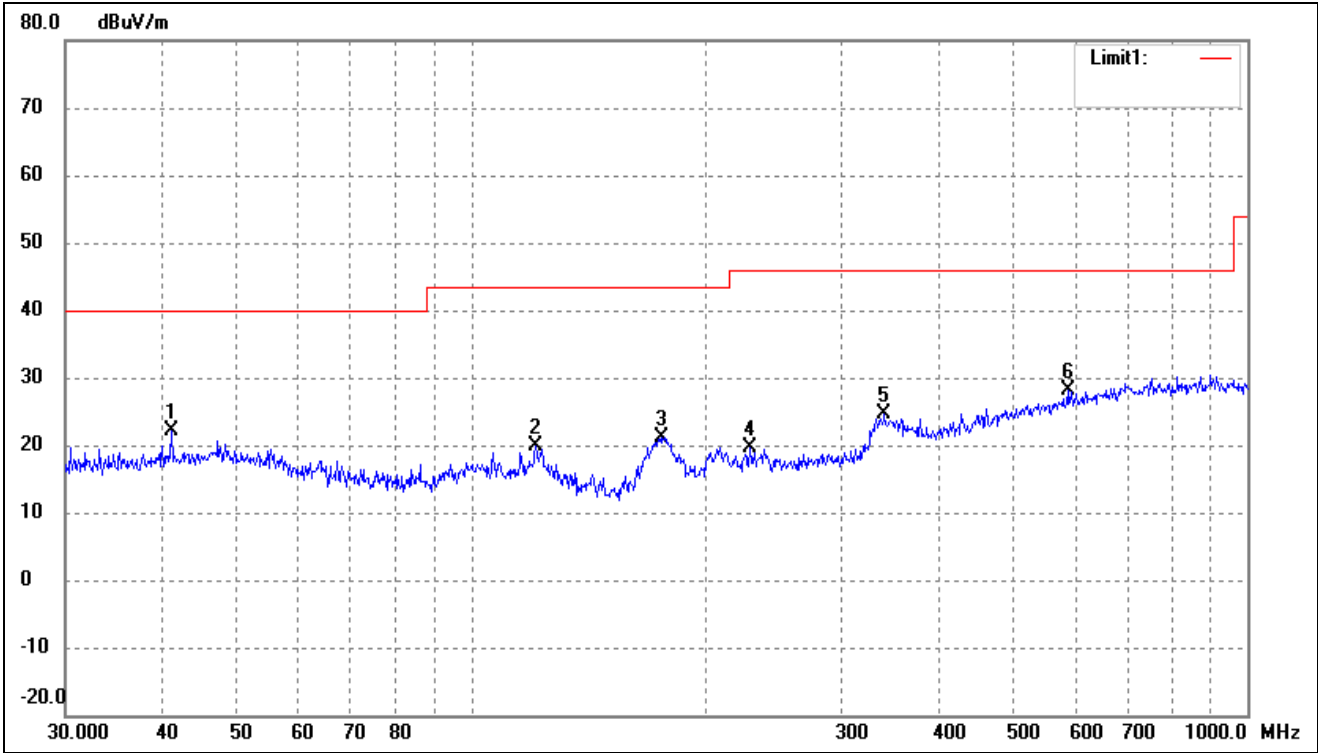
- Antenna 0 & Antenna 1
- 5150-5250MHz

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



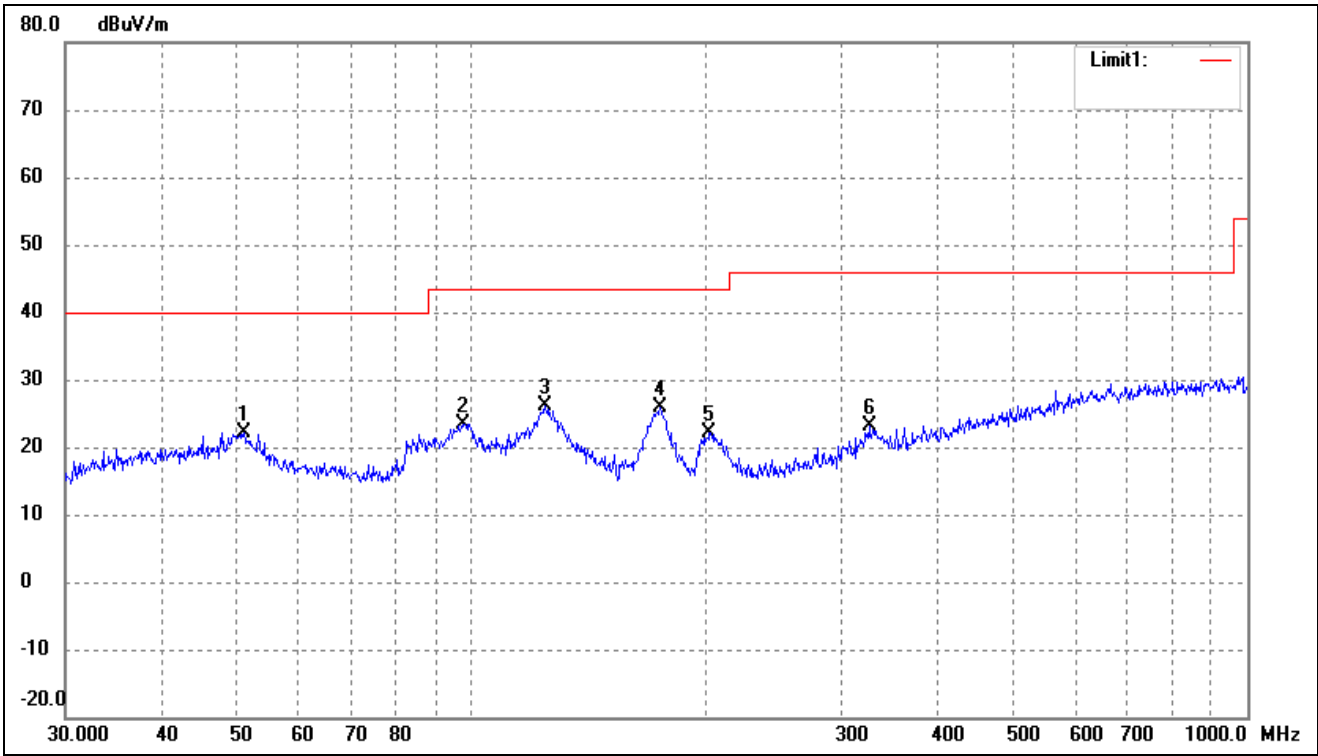
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	85.5977	33.08	-10.65	22.43	40.00	-17.57	-	-	peak
2	98.8326	32.41	-8.94	23.47	43.50	-20.03	-	-	peak
3	124.5690	35.84	-10.44	25.40	43.50	-18.10	-	-	peak
4	173.8135	36.80	-11.55	25.25	43.50	-18.25	-	-	peak
5	203.5228	30.83	-9.61	21.22	43.50	-22.28	-	-	peak
6	332.5187	29.07	-5.94	23.13	46.00	-22.87	-	-	peak

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



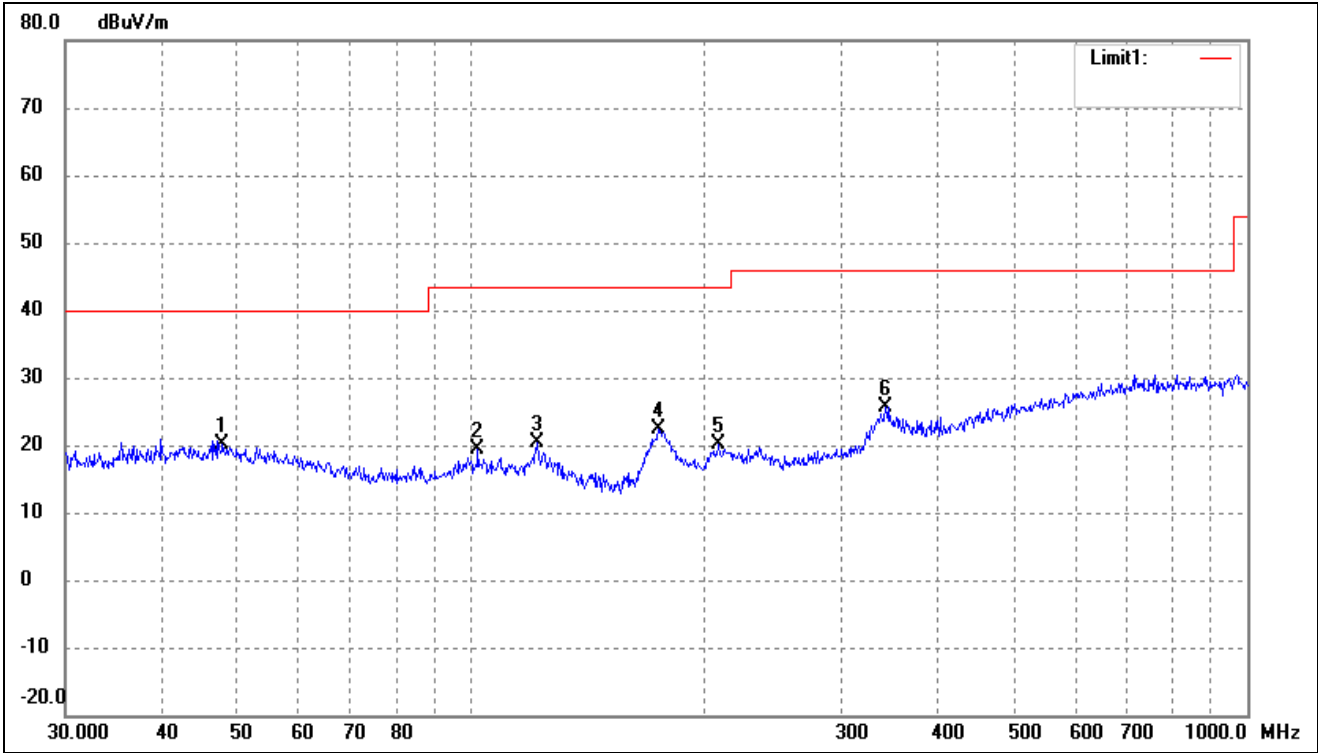
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	41.1320	29.09	-6.99	22.10	40.00	-17.90	-	-	peak
2	121.1231	29.57	-9.80	19.77	43.50	-23.73	-	-	peak
3	176.2686	32.63	-11.44	21.19	43.50	-22.31	-	-	peak
4	228.4904	28.49	-8.92	19.57	46.00	-26.43	-	-	peak
5	340.7817	30.44	-5.69	24.75	46.00	-21.25	-	-	peak
6	586.8437	28.03	0.15	28.18	46.00	-17.82	-	-	peak

802.11ax-HE20			
Test Channel	5180MHz(worst case)	Polarity:	Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	50.9420	29.13	-7.10	22.03	40.00	-17.97	-	-	peak
2	97.4560	32.61	-9.20	23.41	43.50	-20.09	-	-	peak
3	124.5690	36.58	-10.44	26.14	43.50	-17.36	-	-	peak
4	175.0368	37.42	-11.50	25.92	43.50	-17.58	-	-	peak
5	202.8104	31.83	-9.62	22.21	43.50	-21.29	-	-	peak
6	325.5958	29.28	-6.17	23.11	46.00	-22.89	-	-	peak

802.11ax-HE20			
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	47.8260	27.10	-6.96	20.14	40.00	-19.86	-	-	peak
2	102.0014	28.02	-8.76	19.26	43.50	-24.24	-	-	peak
3	121.5486	30.20	-9.88	20.32	43.50	-23.18	-	-	peak
4	174.4241	33.83	-11.53	22.30	43.50	-21.20	-	-	peak
5	208.5803	29.59	-9.46	20.13	43.50	-23.37	-	-	peak
6	341.9787	31.31	-5.65	25.66	46.00	-20.34	-	-	peak