

TEST REPORT

Reference No..... : WTX23X05101641W003
FCC ID : 2BAQOSC55G
Applicant : Beijing Speedata Technology Co.,Ltd
Address : Office 01-2 08, Block D, 8 / F, Building 1-4, Yard A, 18 Zhongguancun South
Street, Haidian District, Beijing.
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : Wireless data terminal
Model No..... : SC55G
Standards : FCC Part 15.407
Date of Receipt sample : 2023-05-10
Date of Test..... : 2023-05-10 to 2023-11-09
Date of Issue : 2023-11-09
Test Report Form No. : WTX_Part 15_407W
Test Result..... : **Pass**

Remarks:

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

Prepared By:

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Report version

Version No.	Date of issue	Description
Rev.00	2023-10-24	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Wireless data terminal
Trade Name:	/
Model No.:	SC55G
Adding Model(s):	SC40G, ST55G, SC55PCM, SC55GMD, ST55RT, FG50RT, SC55, SC40, SC35, SD35, SC35G, HT35, FG40, FG50, HC01, GT100, GT100-TY, GT100-HC, GT100-PD, iCT100, SD100, GT55, GT50, GT56, GT60, SC80G, SD100G
Rated Voltage:	DC3.85V
Battery Capacity:	5000mAh
Power Adapter:	HYX024-U012125XYE Input:AC100-240v~50/60Hz 0.5A Output:DC5V/7V/9V 1.67A; DC12V1.25A
<i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model SC55G, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11a, 802.11n(HT20) , 802.11n-HT40, 802.11ac-VHT20, 802.11ac-VHT40,802.11ac-VHT80
Frequency Range:	5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz
RF Output Power:	15.23dBm (Conducted)
Type of Modulation:	QPSK,16QAM,64QAM, 256QAM
Type of Antenna:	Integral Antenna
Antenna Gain:	0.12dBi
<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.

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

1.3 Test Methodology

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

1.4 Table for parameters of Test Software setting

Enter ***3646633*** into the calculator to enter the engineer mode, you can start to test. During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Mode	Test Frequency (MHz)												
	NCB: 20MHz												
	5180	5200	5240	5260	5300	5320	5500	5580	5700	5720	5745	5785	5825
802.11a	23	23	23	23	23	23	23	23	23	23	23	23	23
802.11n-HT20	22	22	22	22	22	22	22	22	22	22	22	22	22
802.11ac-VH20	22	22	22	22	22	22	22	22	22	22	22	22	22
Mode	NCB: 40MHz												
	5190	5230	5270	5310	5510	5550	5670	5710	5755	5795			
802.11n-HT40	21	21	21	21	21	21	21	21	21	21	21		
802.11ac-VH40	21	21	21	21	21	21	21	21	21	21	21		
Mode	NCB: 80MHz												
	5210		5290		5530		5610		5690		5775		
802.11ac-VH80	21		21		21		21		21		21		

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,5600MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM2	802.11n-HT20	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz,5600MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM3	802.11ac-VHT20	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz,5600MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM4	802.11n-HT40	5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5590MHz,5670MHz,5755MHz,5795MHz
TM5	802.11ac-VHT40	5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5590MHz,5670MHz,5755MHz,5795MHz
TM6	802.11ac-VHT80	5210MHz,5290MHz,5530MHz,5610MHz,5775MHz

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
USB Cable	1.0	Shielded	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
Notebook	ASUS	FA5061C	/

1.8 Measurement Uncertainty

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

1.9 Test Equipment List and Details

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2023-02-25	2024-02-24
WTXE1022A 1002	GSM Tester	Rohde & Schwarz	CMU200	114403	2023-02-25	2024-02-24
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2023-02-25	2024-02-24
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2023-02-25	2024-02-24
WTXE1044A 1001	Signal Generator	Agilent	83752A	3610A014 53	2023-02-25	2024-02-24
WTXE1045A 1001	Vector Signal Generator	Agilent	N5182A	MY470702 02	2023-02-25	2024-02-24
WTXE1018A 1001	Power Divider	Weinschel	1506A	PM204	2023-02-25	2024-02-24
WTXE1045A 1001	Power Divider	RF-Lambda	RFLT4W5M18G	14110400 027	2023-02-25	2024-02-24
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2023-02-25	2024-02-24
WTXE1007A 1001	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/00 5	2023-02-25	2024-02-24
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2023-02-25	2024-02-24
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2023-03-20	2026-03-19
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2023-02-25	2024-02-24
WTXE1007A 1001	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/00 5	2023-02-25	2024-02-24
WTXE1065A 1001	Amplifier	C&D	PAP-1G18	14918	2023-02-25	2024-02-24
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2021-03-19	2024-03-18
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2021-03-19	2024-03-18

WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2023-02-25	2024-02-24
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2024-04-08
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A101 79	2023-02-25	2024-02-24
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2023-02-25	2024-02-24
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2024-05-27
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2023-02-25	2024-02-24
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
WTXE1103A 1005	Horn Antenna	POAM	RTF-11A	LP228060 221	2023-03-10	2026-03-09
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2023-02-25	2024-02-24
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2021-03-19	2024-03-18
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2023-02-25	2024-02-24
☒ Conducted Room 1#						
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2023-02-25	2024-02-24
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2023-02-25	2024-02-24
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-224	2023-02-25	2024-02-24
☐ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2023-02-25	2024-02-24
WTXE1003A	LISN	Rohde &	ENV 216	100097	2023-02-25	2024-02-24

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1003		Schwarz				
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Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission Room 1#)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission Room 2#)*	SKET	EMC-I	V2.0

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

2. SUMMARY OF TEST RESULTS

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

N/A: Not applicable.

3. Antenna Requirement

3.1 Standard Applicable

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

3.2 Evaluation Information

This product has an integral 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.

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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 11dBm + 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:

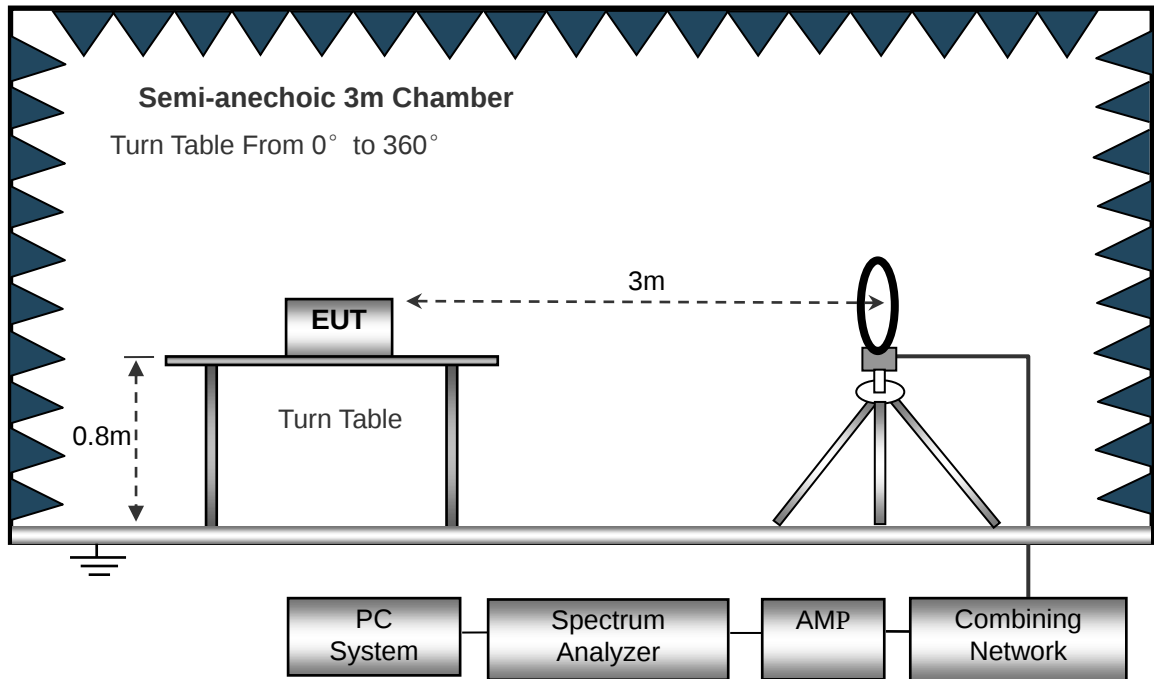
- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

8.2 Test Procedure

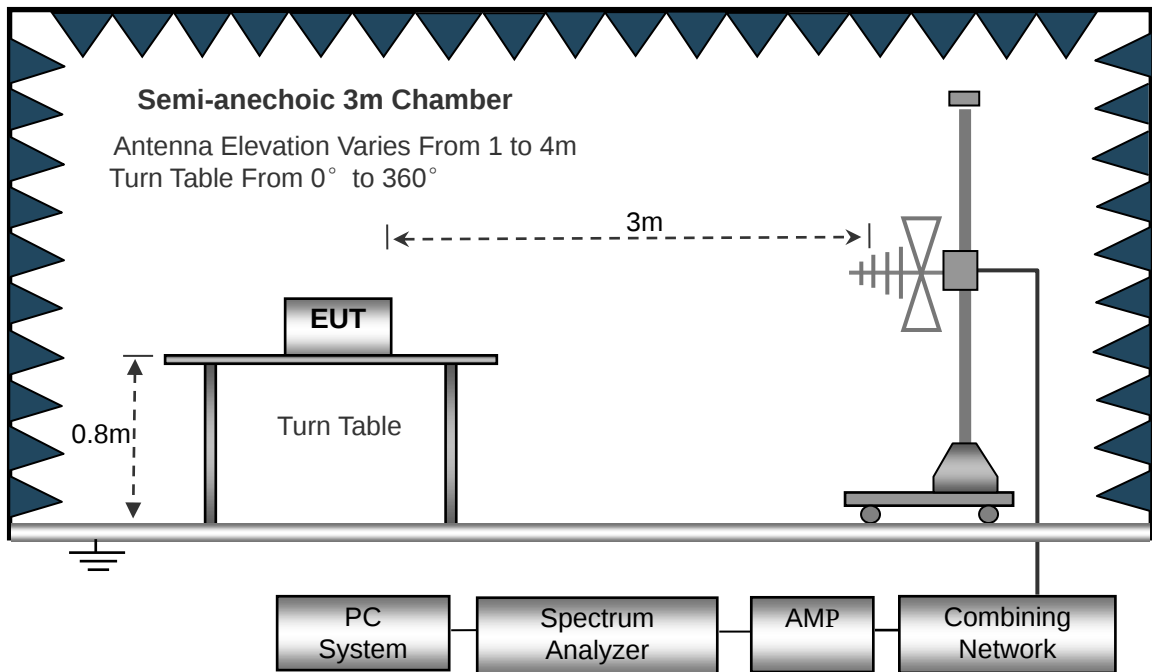
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

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.

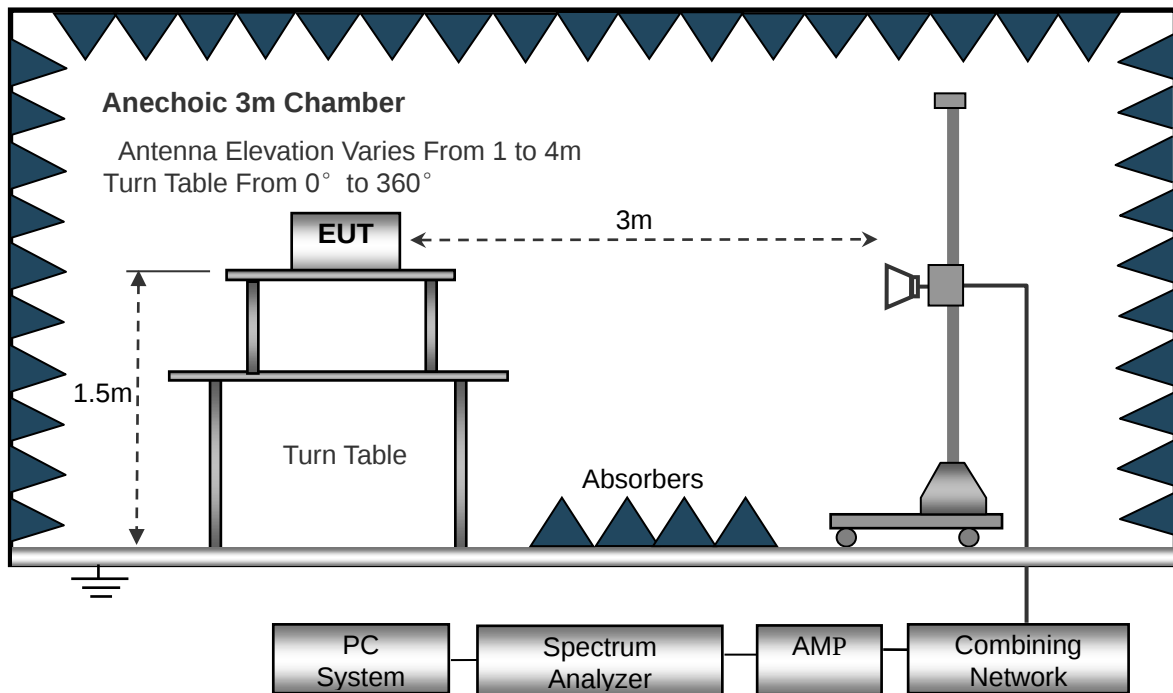
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 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:

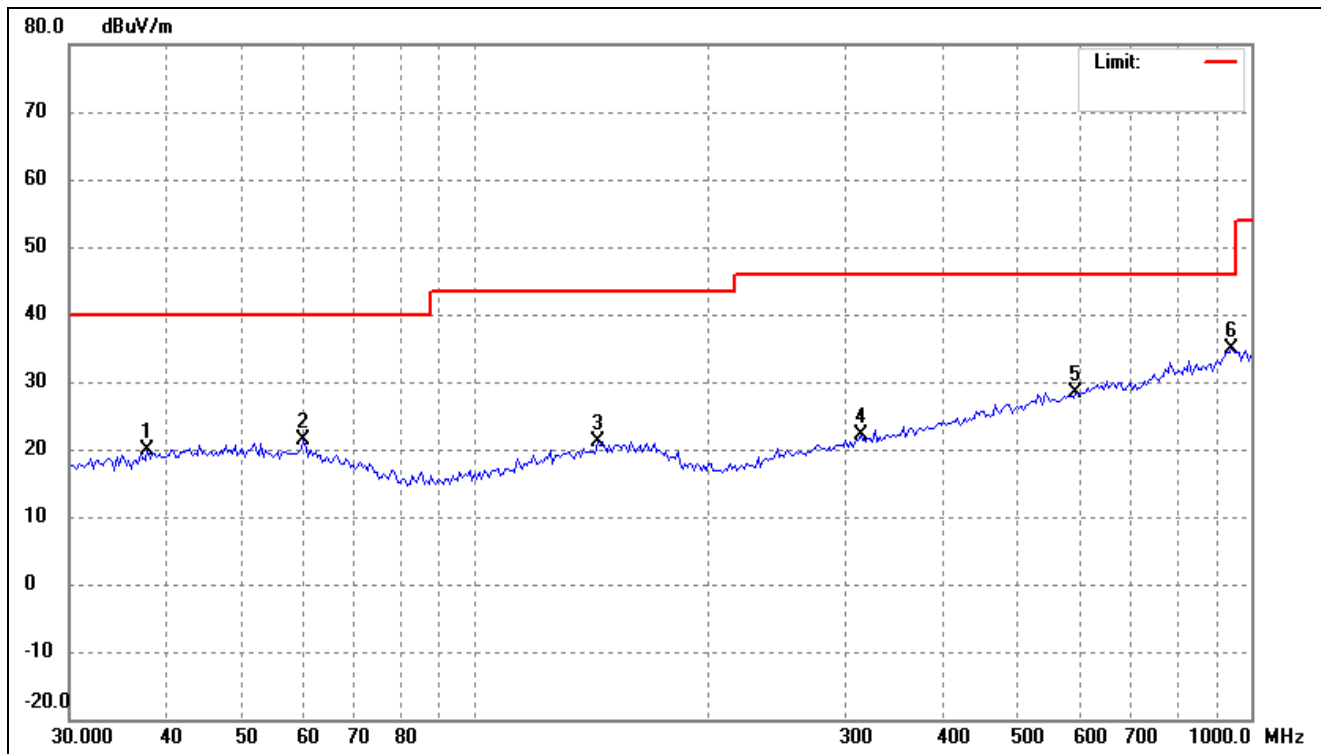
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

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

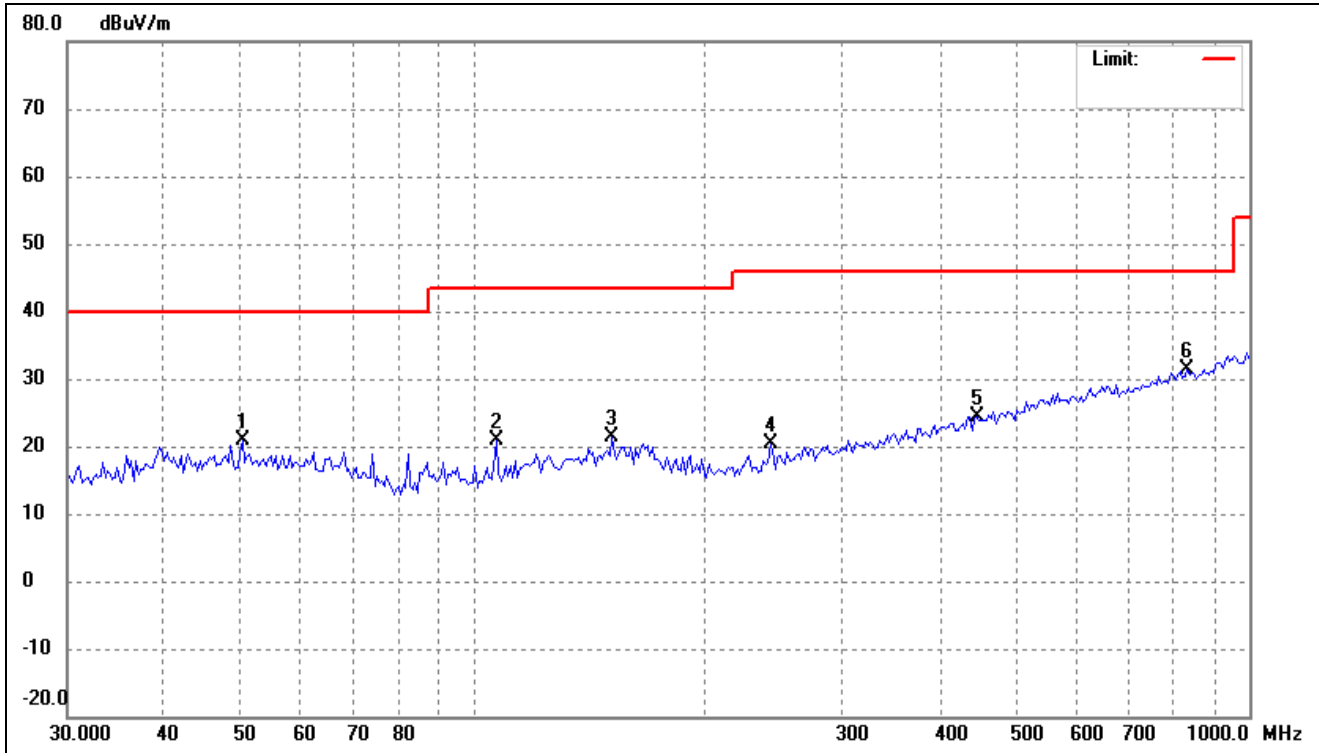
802.11a			
Test Channel	5180MHz(Worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.8297	28.93	-8.94	19.99	40.00	-20.01	-	-	peak
2	60.1528	30.25	-8.97	21.28	40.00	-18.72	-	-	peak
3	143.7760	30.36	-9.11	21.25	43.50	-22.25	-	-	peak
4	313.6482	30.01	-7.87	22.14	46.00	-23.86	-	-	peak
5	594.5143	30.32	-1.86	28.46	46.00	-17.54	-	-	peak
6	945.3336	32.67	2.15	34.82	46.00	-11.18	-	-	peak

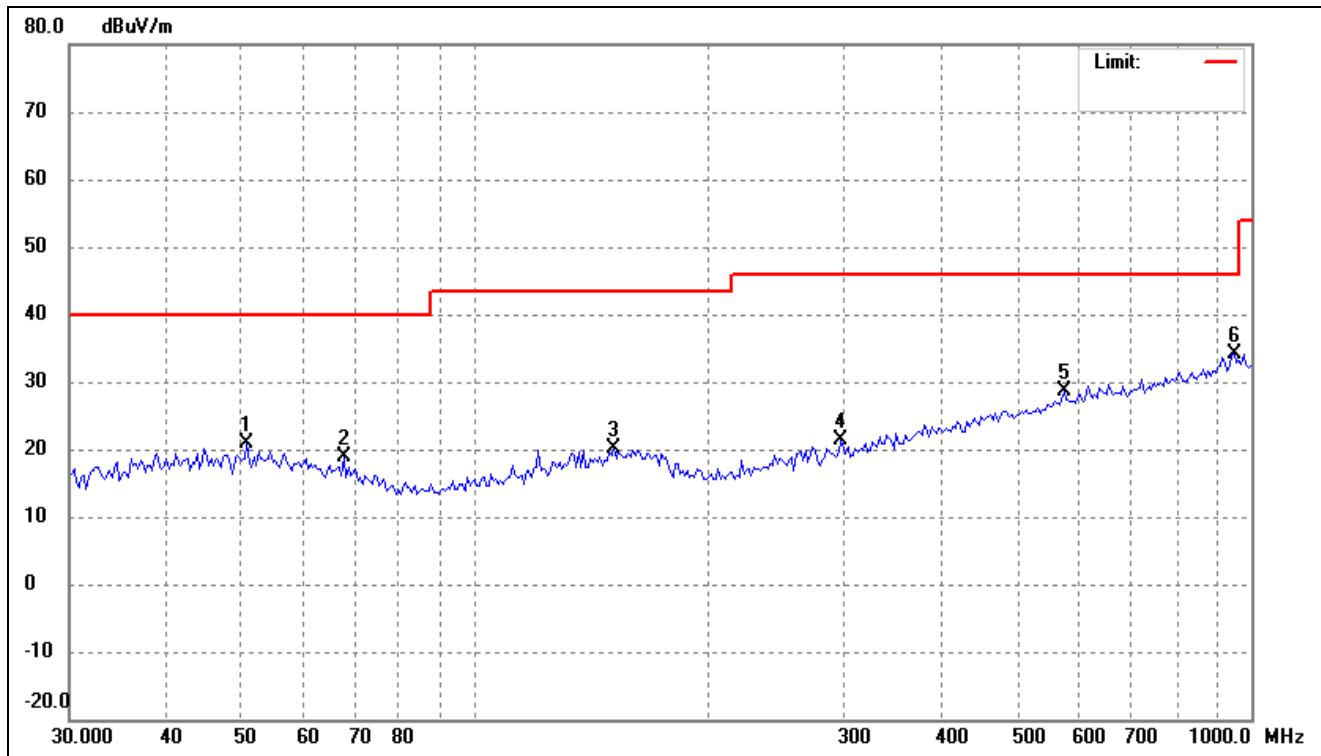
802.11a

Test Channel	5180MHz(Worst case)	Polarity:	Vertical
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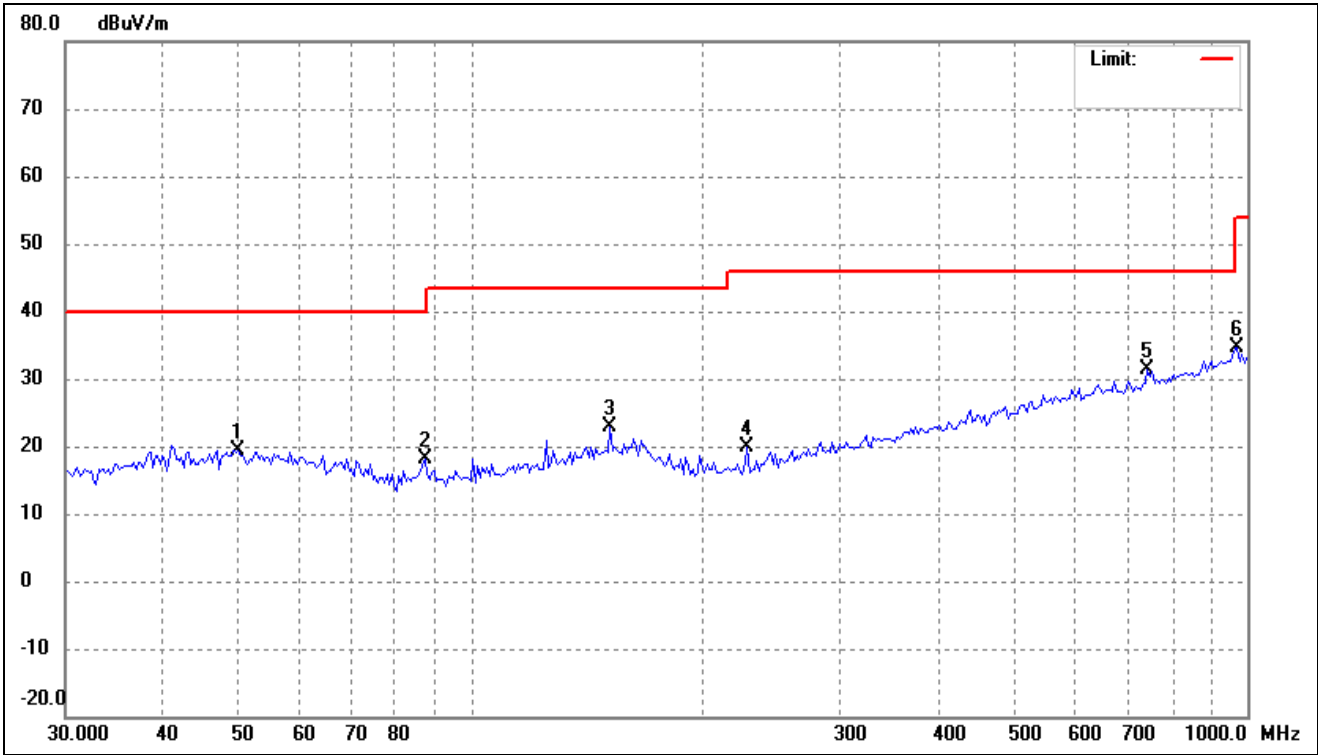
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.4614	28.95	-8.14	20.81	40.00	-19.19	-	-	peak
2	107.0306	32.71	-11.85	20.86	43.50	-22.64	-	-	peak
3	151.0252	29.95	-8.61	21.34	43.50	-22.16	-	-	peak
4	241.8377	30.74	-10.48	20.26	46.00	-25.74	-	-	peak
5	445.6932	29.16	-4.71	24.45	46.00	-21.55	-	-	peak
6	833.0127	30.89	0.59	31.48	46.00	-14.52	-	-	peak

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



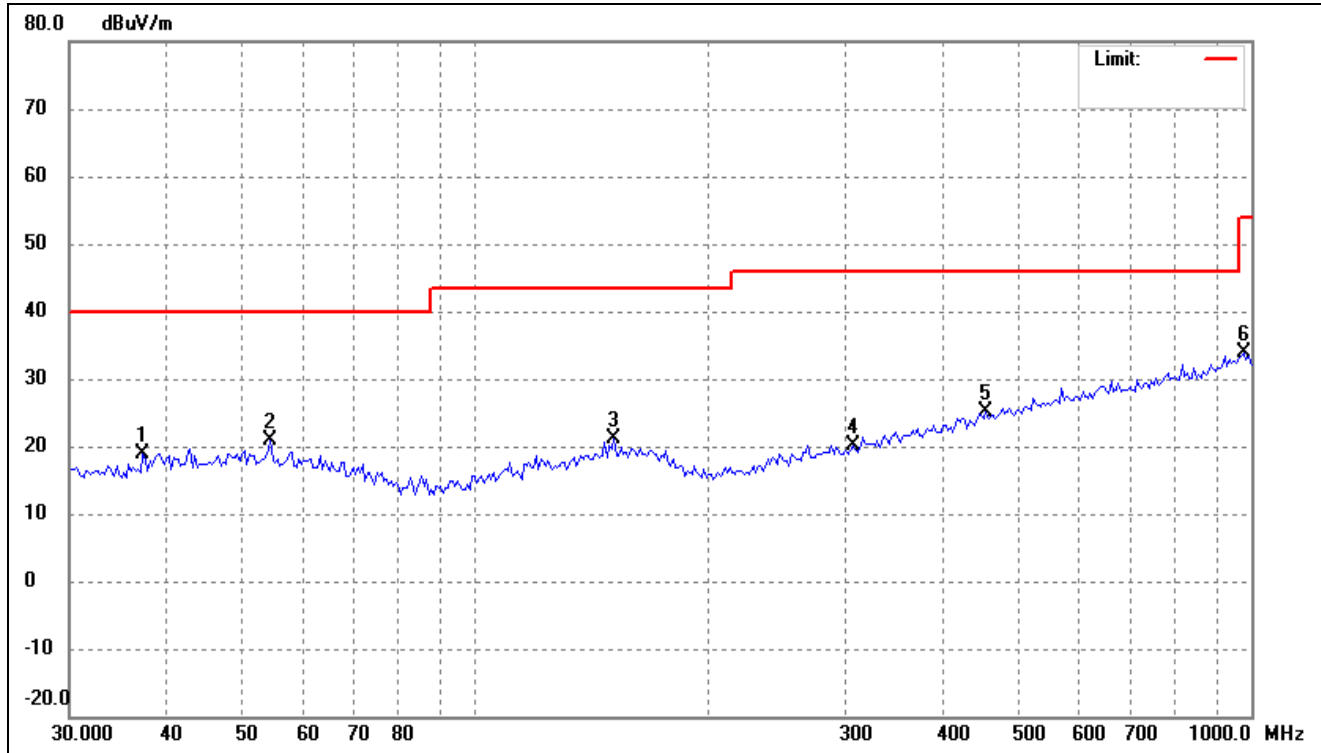
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.8172	28.94	-8.17	20.77	40.00	-19.23	-	-	peak
2	67.7856	29.28	-10.36	18.92	40.00	-21.08	-	-	peak
3	151.0252	28.72	-8.61	20.11	43.50	-23.39	-	-	peak
4	296.5023	29.68	-8.38	21.30	46.00	-24.70	-	-	peak
5	573.9882	30.79	-2.27	28.52	46.00	-17.48	-	-	peak
6	952.0001	31.89	2.25	34.14	46.00	-11.86	-	-	peak

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



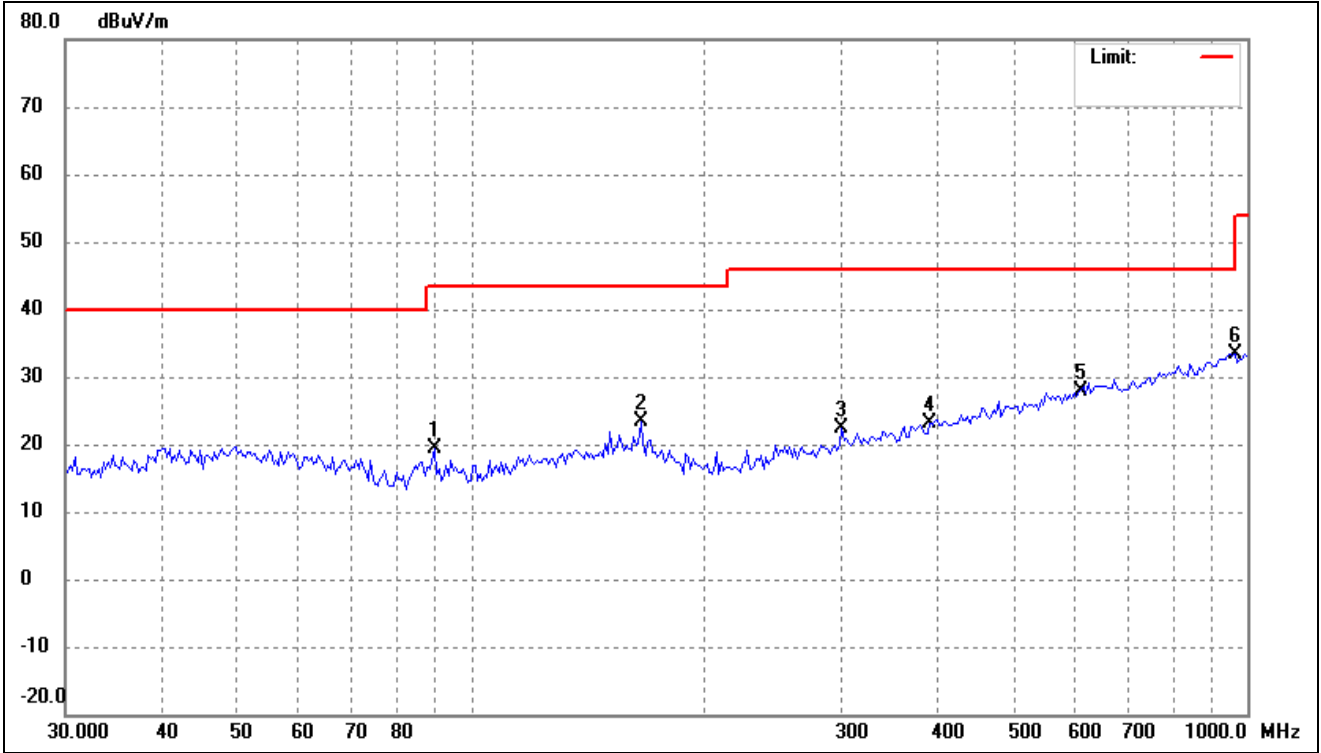
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.1080	27.52	-8.09	19.43	40.00	-20.57	-	-	peak
2	87.2980	31.23	-13.07	18.16	40.00	-21.84	-	-	peak
3	151.0252	31.41	-8.61	22.80	43.50	-20.70	-	-	peak
4	227.0164	31.66	-11.76	19.90	46.00	-26.10	-	-	peak
5	744.4265	31.70	-0.27	31.43	46.00	-14.57	-	-	peak
6	972.2827	32.36	2.27	34.63	54.00	-19.37	-	-	peak

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



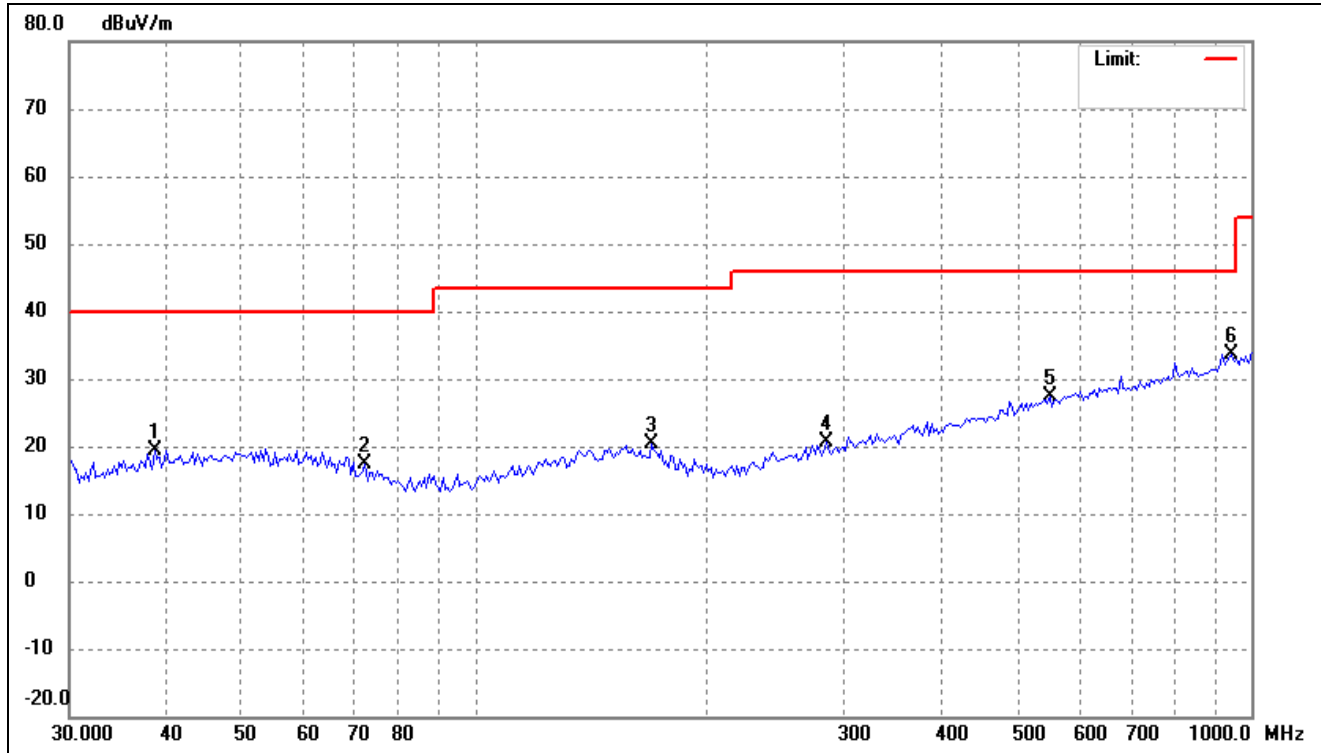
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.3017	28.01	-9.06	18.95	40.00	-21.05	-	-	peak
2	54.5167	29.47	-8.57	20.90	40.00	-19.10	-	-	peak
3	151.0252	29.62	-8.61	21.01	43.50	-22.49	-	-	peak
4	307.1053	28.31	-8.06	20.25	46.00	-25.75	-	-	peak
5	455.1888	29.56	-4.52	25.04	46.00	-20.96	-	-	peak
6	979.1392	31.56	2.28	33.84	54.00	-20.16	-	-	peak

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



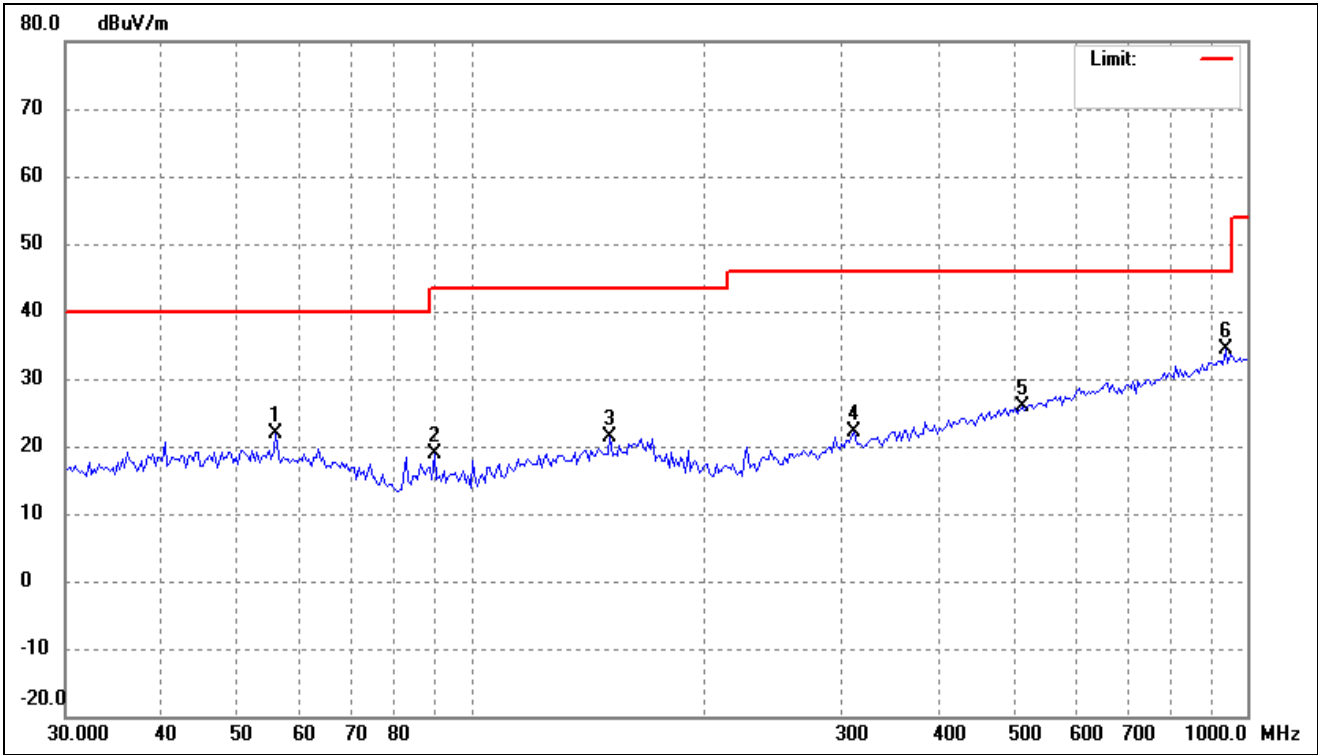
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	89.7866	32.49	-13.10	19.39	43.50	-24.11	-	-	peak
2	165.4716	32.13	-8.76	23.37	43.50	-20.13	-	-	peak
3	300.6988	30.67	-8.24	22.43	46.00	-23.57	-	-	peak
4	389.9874	29.26	-6.16	23.10	46.00	-22.90	-	-	peak
5	607.1806	29.47	-1.64	27.83	46.00	-18.17	-	-	peak
6	965.4742	31.23	2.27	33.50	54.00	-20.50	-	-	peak

802.11ac-VHT80			
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	38.6357	28.25	-8.78	19.47	40.00	-20.53	-	-	peak
2	72.2111	28.56	-11.26	17.30	40.00	-22.70	-	-	peak
3	168.9970	29.19	-8.85	20.34	43.50	-23.16	-	-	peak
4	284.2607	29.53	-8.79	20.74	46.00	-25.26	-	-	peak
5	550.2902	30.26	-2.84	27.42	46.00	-18.58	-	-	peak
6	945.3336	31.53	2.15	33.68	46.00	-12.32	-	-	peak

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

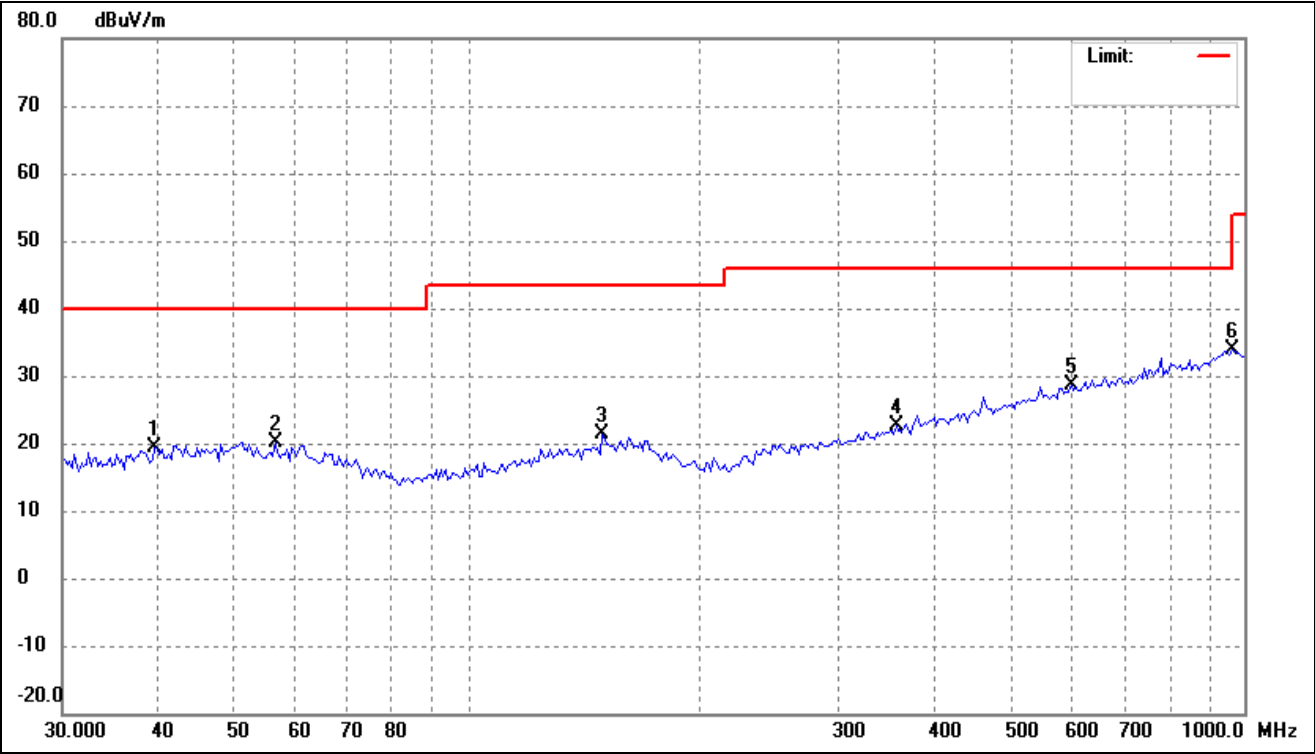


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	56.0708	30.70	-8.70	22.00	40.00	-18.00	-	-	peak
2	89.7866	32.09	-13.10	18.99	43.50	-24.51	-	-	peak
3	151.0252	29.95	-8.61	21.34	43.50	-22.16	-	-	peak
4	311.4519	30.12	-7.93	22.19	46.00	-23.81	-	-	peak
5	512.9478	29.70	-3.70	26.00	46.00	-20.00	-	-	peak
6	938.7139	32.44	2.01	34.45	46.00	-11.55	-	-	peak

➤ 5250-5350MHz

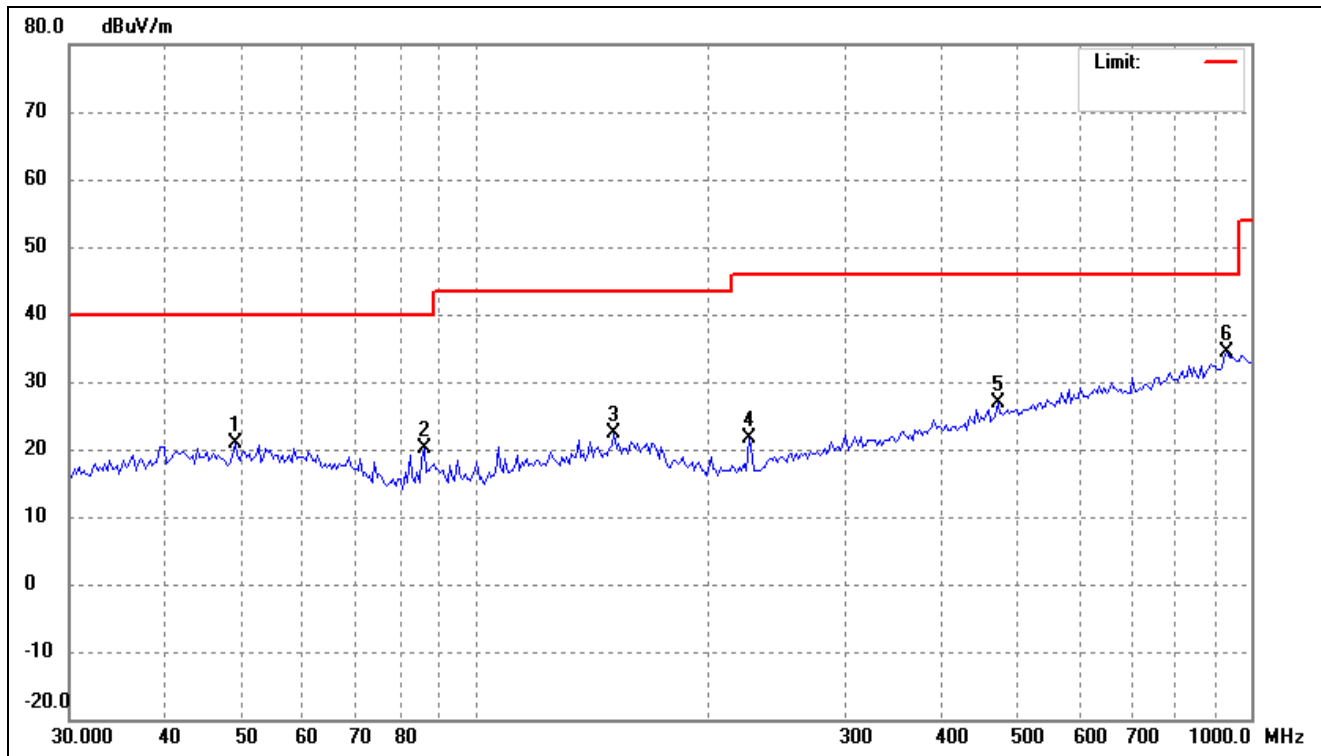
➤ 802.11a

Test Channel	5260MHz(worst case)	Polarity:	Horizontal
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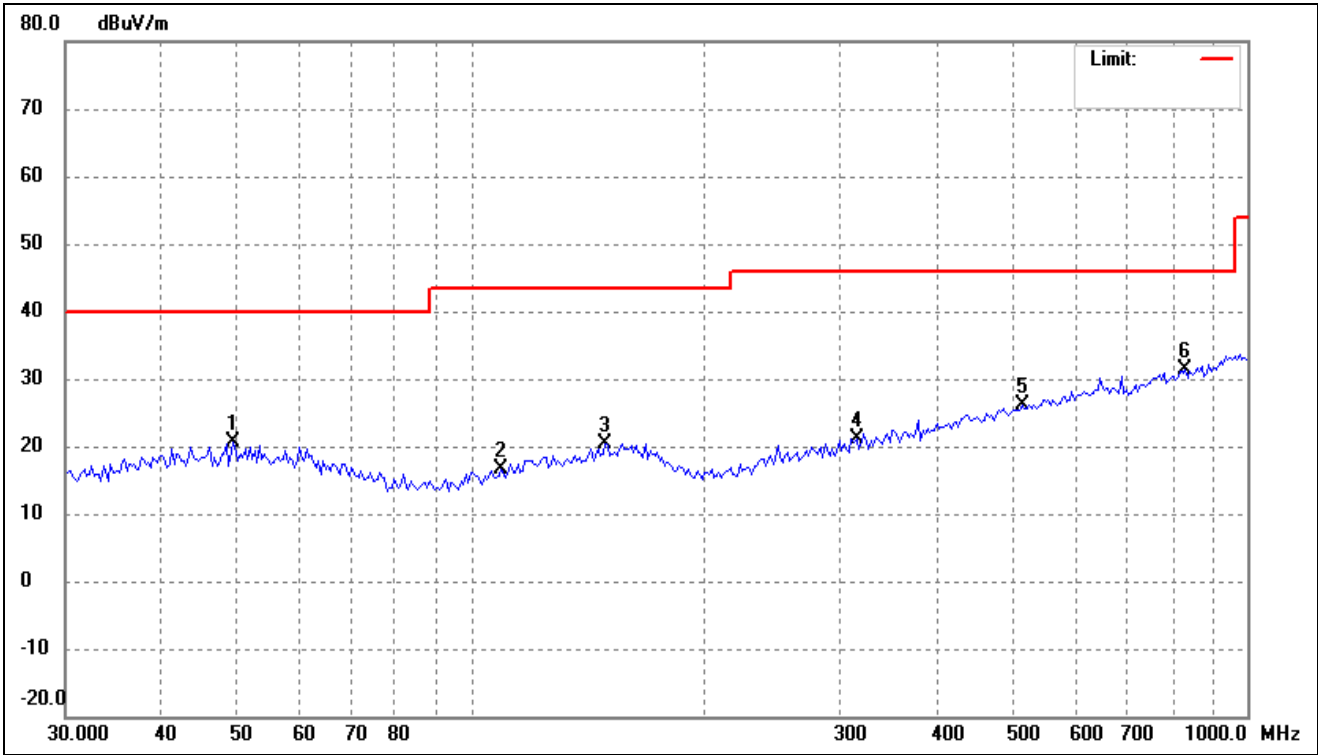
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	39.4588	27.86	-8.60	19.26	40.00	-20.74	-	-	peak
2	56.4662	28.89	-8.72	20.17	40.00	-19.83	-	-	peak
3	148.9175	30.18	-8.68	21.50	43.50	-22.00	-	-	peak
4	355.9397	29.64	-6.96	22.68	46.00	-23.32	-	-	peak
5	598.7067	30.45	-1.77	28.68	46.00	-17.32	-	-	peak
6	965.4742	31.49	2.27	33.76	54.00	-20.24	-	-	peak

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



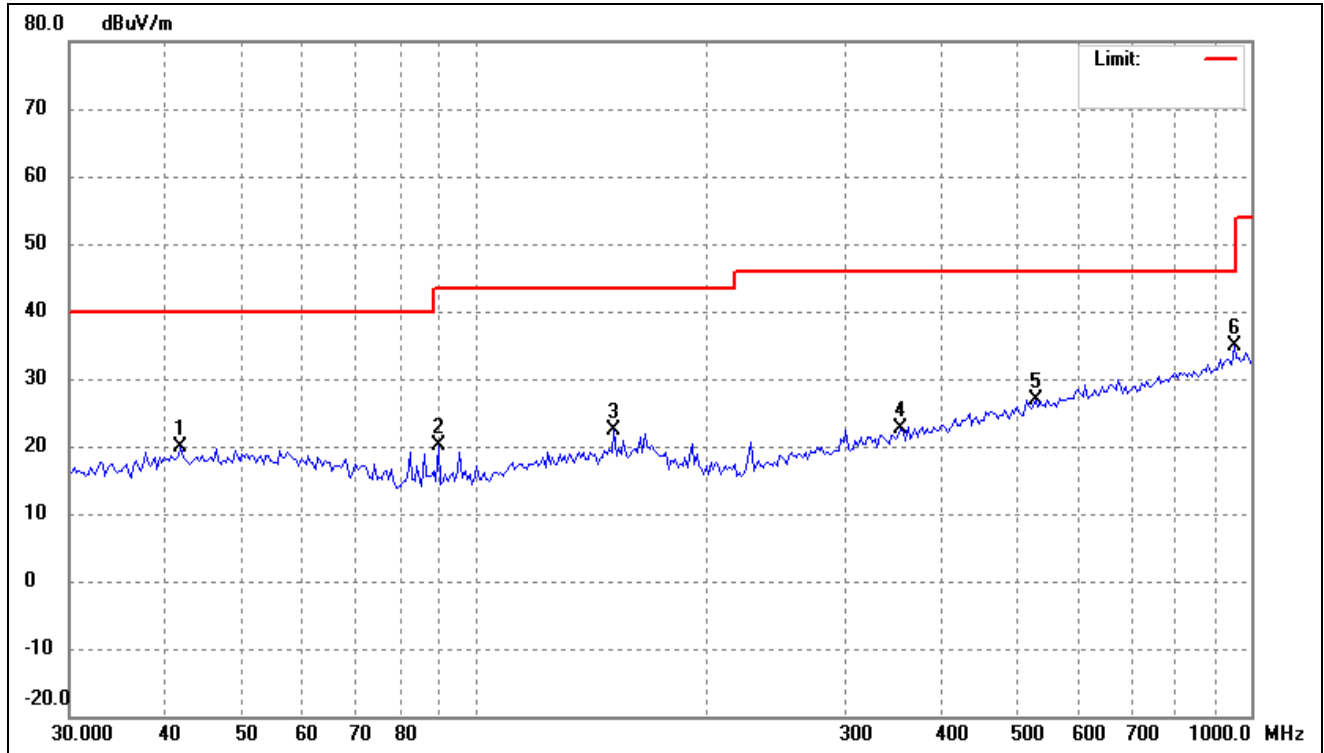
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.0627	28.96	-8.15	20.81	40.00	-19.19	-	-	peak
2	86.0796	33.24	-13.04	20.20	40.00	-19.80	-	-	peak
3	151.0252	31.08	-8.61	22.47	43.50	-21.03	-	-	peak
4	225.4267	33.38	-11.83	21.55	46.00	-24.45	-	-	peak
5	471.4665	31.07	-4.29	26.78	46.00	-19.22	-	-	peak
6	932.1405	32.60	1.87	34.47	46.00	-11.53	-	-	peak

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



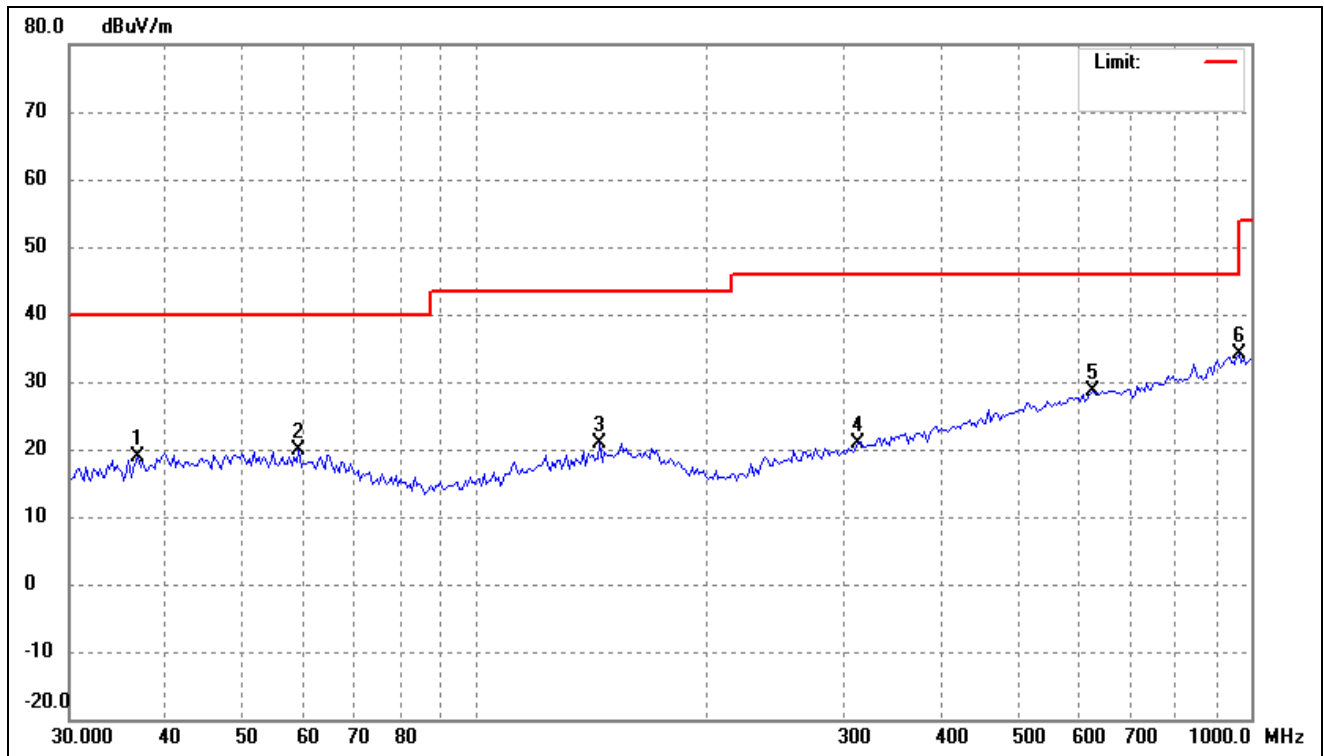
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.4087	28.75	-8.13	20.62	40.00	-19.38	-	-	peak
2	109.3110	28.36	-11.64	16.72	43.50	-26.78	-	-	peak
3	148.9175	29.04	-8.68	20.36	43.50	-23.14	-	-	peak
4	313.6483	29.09	-7.87	21.22	46.00	-24.78	-	-	peak
5	512.9478	29.80	-3.70	26.10	46.00	-19.90	-	-	peak
6	833.0127	30.91	0.59	31.50	46.00	-14.50	-	-	peak

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



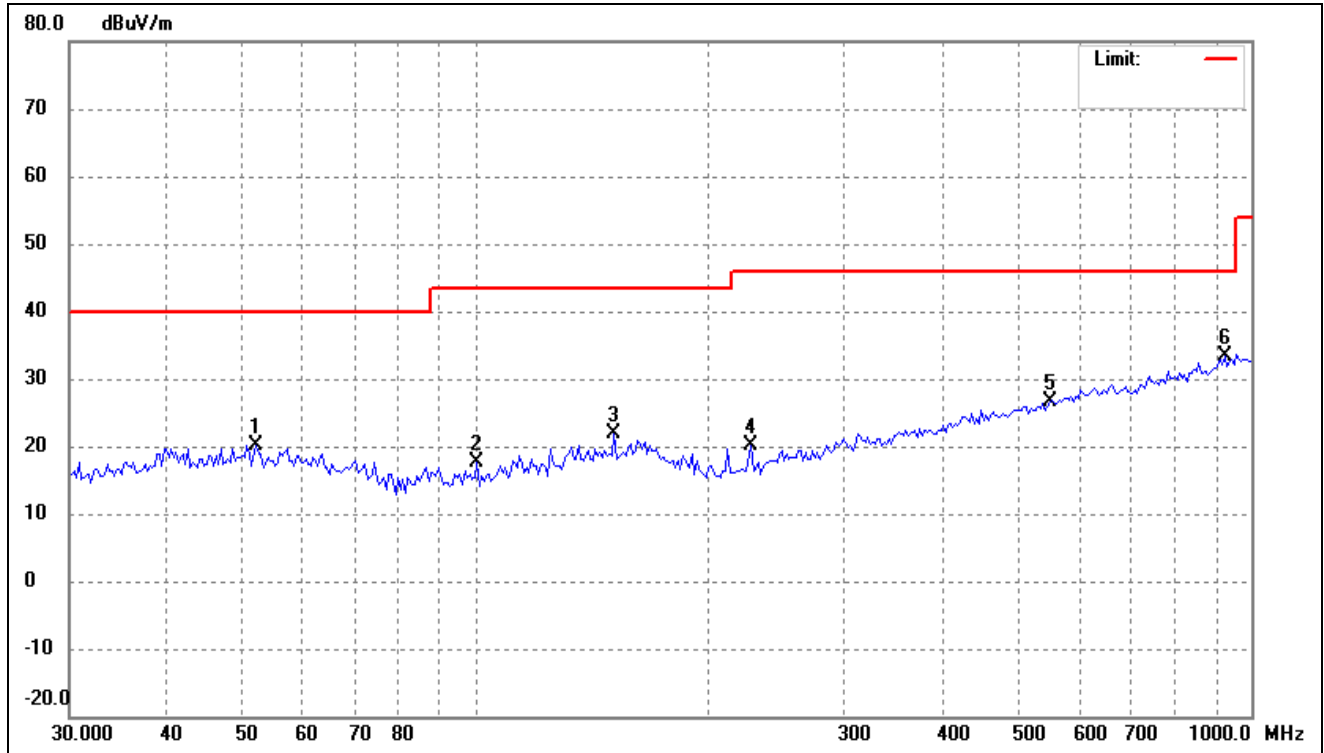
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	41.7406	28.47	-8.47	20.00	40.00	-20.00	-	-	peak
2	89.7866	33.13	-13.10	20.03	43.50	-23.47	-	-	peak
3	151.0252	31.00	-8.61	22.39	43.50	-21.11	-	-	peak
4	353.4472	29.74	-7.02	22.72	46.00	-23.28	-	-	peak
5	527.5707	30.34	-3.45	26.89	46.00	-19.11	-	-	peak
6	952.0001	32.56	2.25	34.81	46.00	-11.19	-	-	peak

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



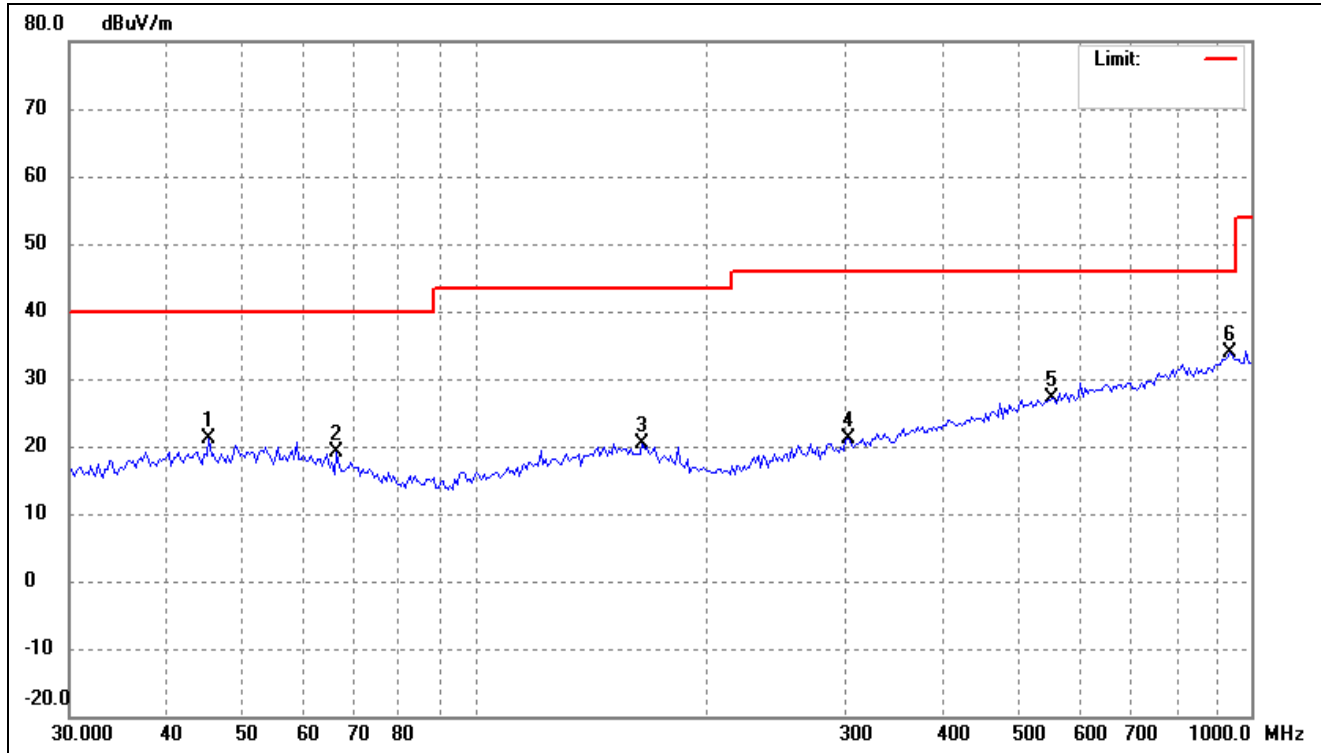
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.7811	28.04	-9.17	18.87	40.00	-21.13	-	-	peak
2	59.3133	28.72	-8.90	19.82	40.00	-20.18	-	-	peak
3	144.7899	30.00	-9.03	20.97	43.50	-22.53	-	-	peak
4	311.4519	28.79	-7.93	20.86	46.00	-25.14	-	-	peak
5	624.4897	29.92	-1.41	28.51	46.00	-17.49	-	-	peak
6	965.4742	31.76	2.27	34.03	54.00	-19.97	-	-	peak

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



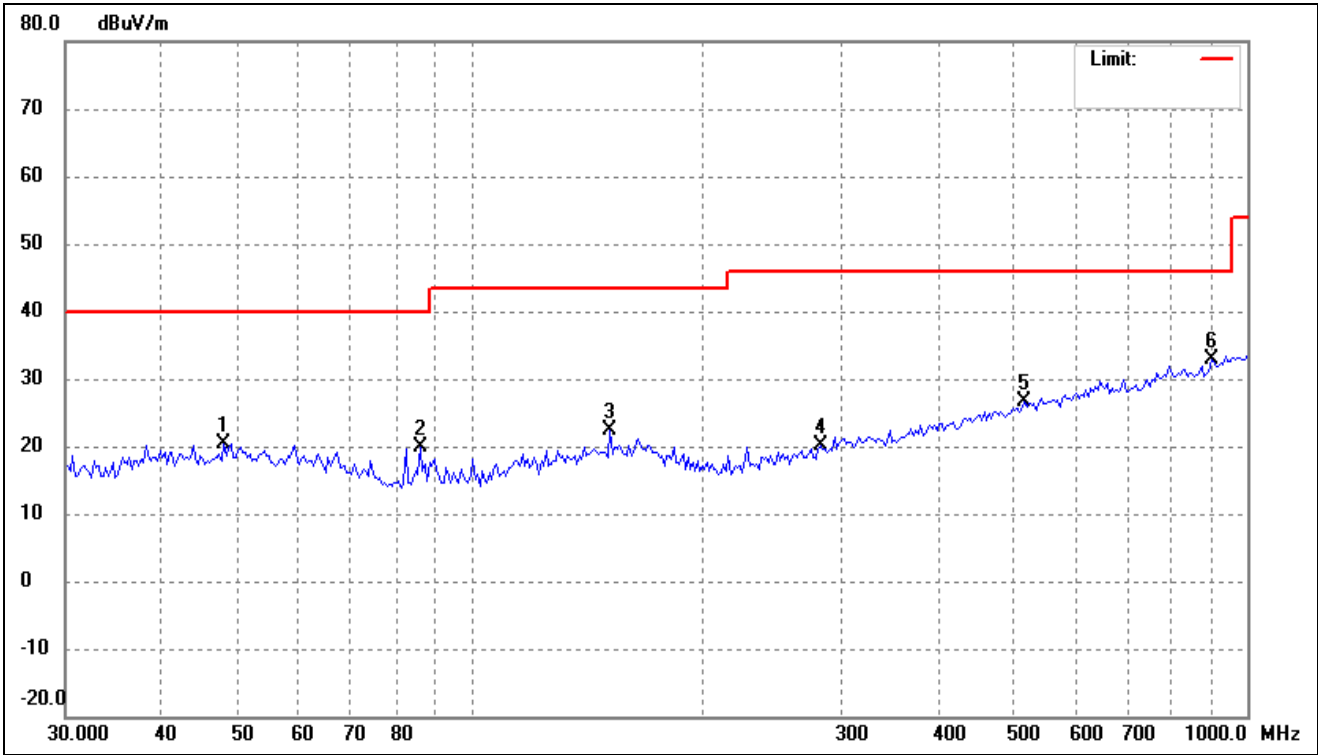
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	52.2659	28.44	-8.33	20.11	40.00	-19.89	-	-	peak
2	100.4712	30.19	-12.45	17.74	43.50	-25.76	-	-	peak
3	151.0252	30.51	-8.61	21.90	43.50	-21.60	-	-	peak
4	227.0164	31.98	-11.76	20.22	46.00	-25.78	-	-	peak
5	550.2902	29.46	-2.84	26.62	46.00	-19.38	-	-	peak
6	925.6132	31.59	1.74	33.33	46.00	-12.67	-	-	peak

802.11ac-VHT80			
Test Channel	5290MHz(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	45.4131	29.66	-8.43	21.23	40.00	-18.77	-	-	peak
2	66.3715	29.19	-10.11	19.08	40.00	-20.92	-	-	peak
3	164.3129	29.16	-8.72	20.44	43.50	-23.06	-	-	peak
4	302.8193	29.28	-8.18	21.10	46.00	-24.90	-	-	peak
5	554.1708	29.76	-2.75	27.01	46.00	-18.99	-	-	peak
6	938.7139	31.93	2.01	33.94	46.00	-12.06	-	-	peak

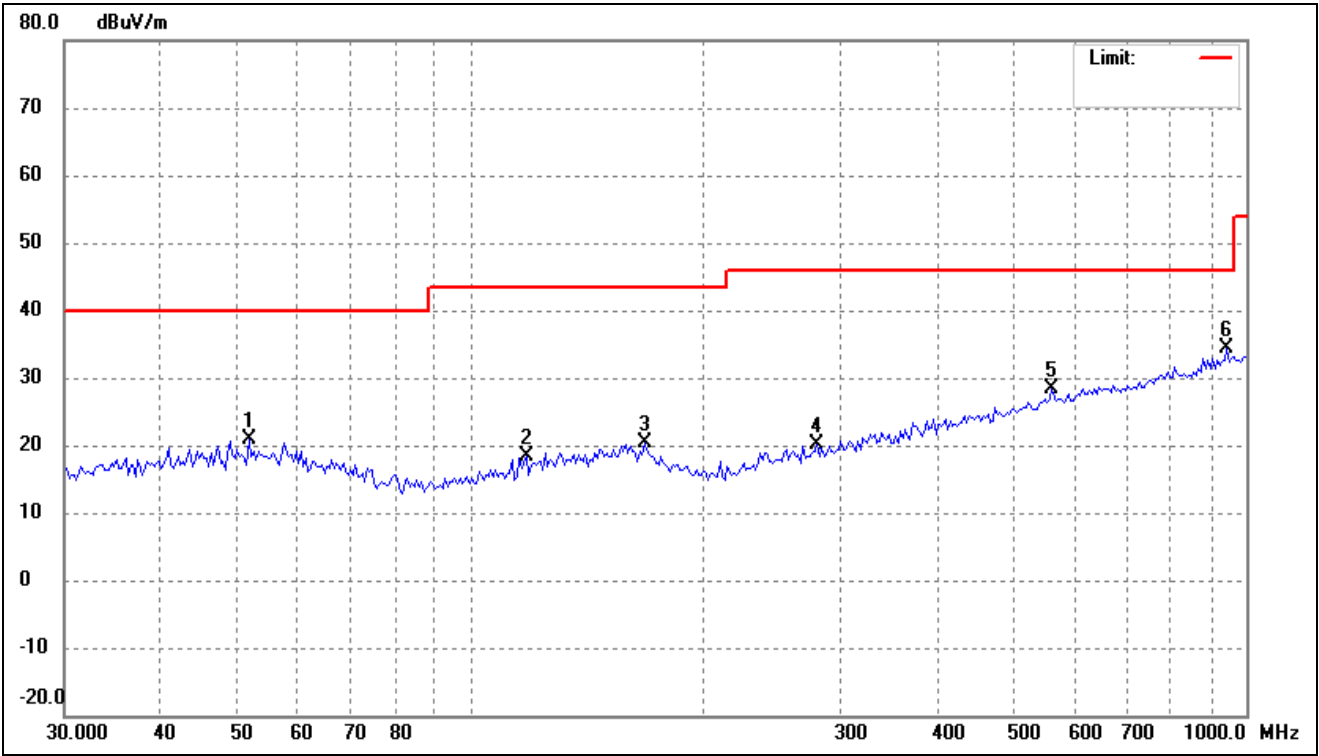
802.11ac-VHT80			
Test Channel	5290MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	28.55	-8.23	20.32	40.00	-19.68	-	-	peak
2	86.0796	33.00	-13.04	19.96	40.00	-20.04	-	-	peak
3	151.0252	31.02	-8.61	22.41	43.50	-21.09	-	-	peak
4	282.2702	28.95	-8.86	20.09	46.00	-25.91	-	-	peak
5	516.5651	30.21	-3.65	26.56	46.00	-19.44	-	-	peak
6	899.9577	31.65	1.19	32.84	46.00	-13.16	-	-	peak

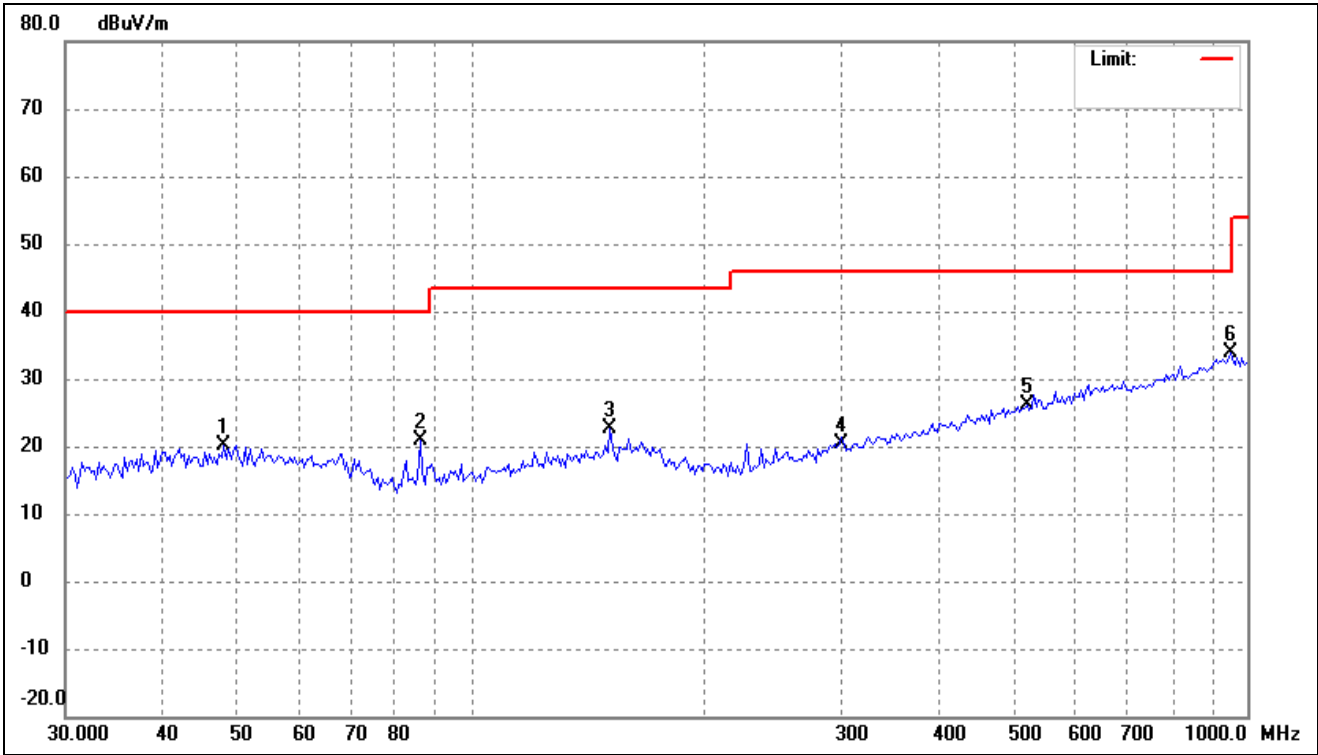
➤ 5470-5725MHz

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



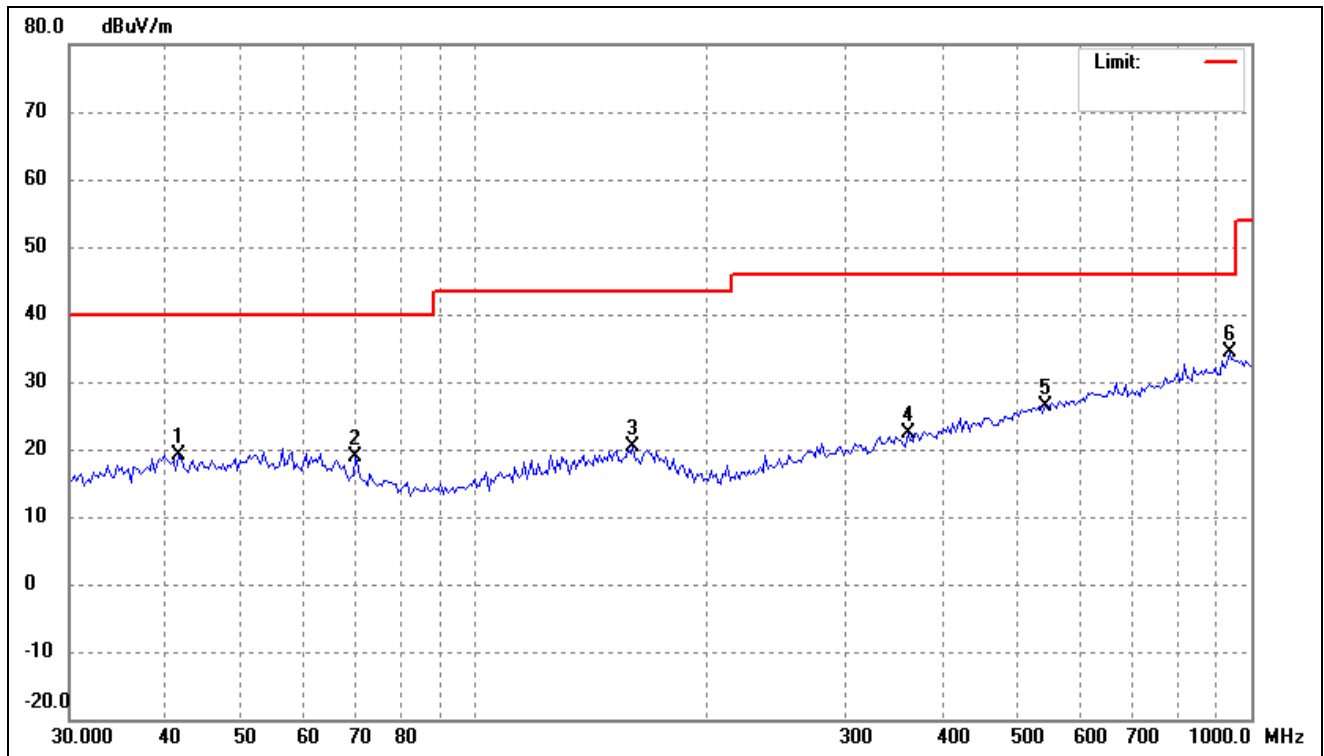
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	51.8999	29.16	-8.29	20.87	40.00	-19.13	-	-	peak
2	118.0957	29.17	-10.73	18.44	43.50	-25.06	-	-	peak
3	167.8136	29.25	-8.82	20.43	43.50	-23.07	-	-	peak
4	280.2936	29.18	-8.93	20.25	46.00	-25.75	-	-	peak
5	562.0143	31.00	-2.55	28.45	46.00	-17.55	-	-	peak
6	945.3336	32.12	2.15	34.27	46.00	-11.73	-	-	peak

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



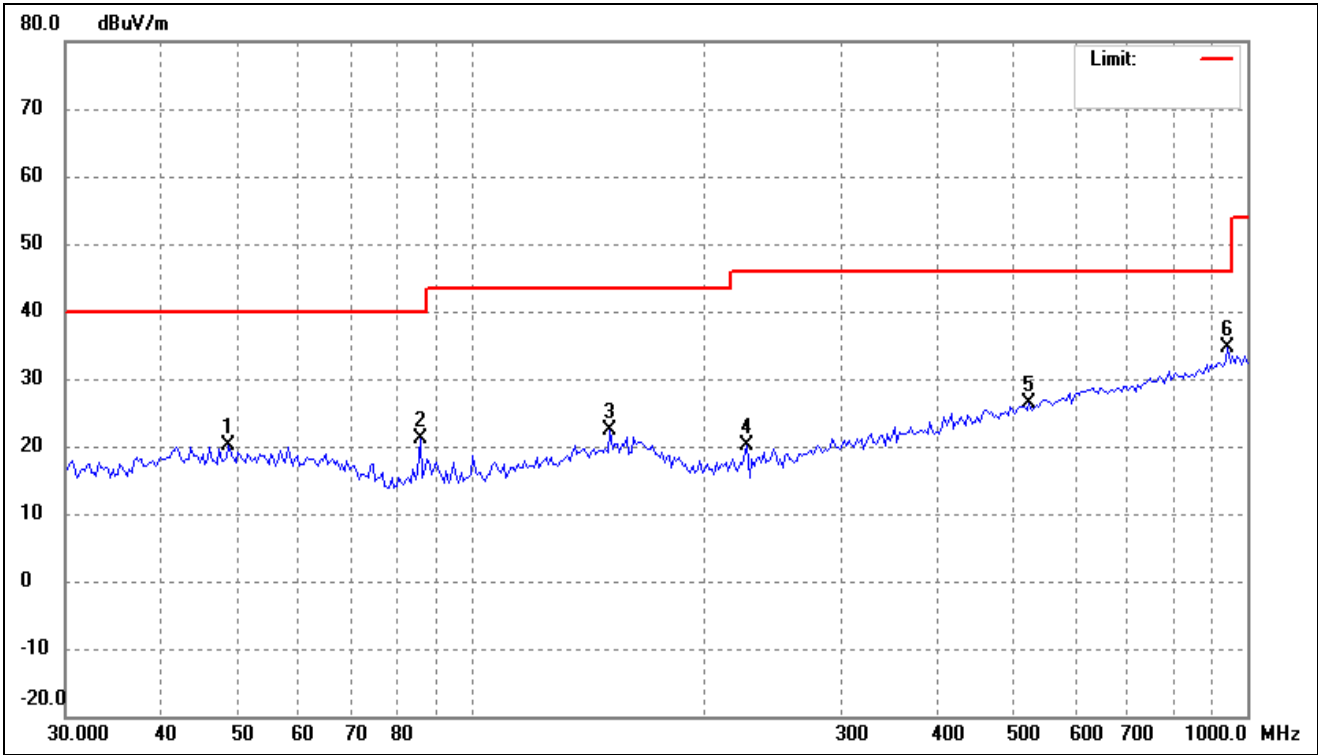
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	28.33	-8.23	20.10	40.00	-19.90	-	-	peak
2	86.0796	33.94	-13.04	20.90	40.00	-19.10	-	-	peak
3	151.0252	31.31	-8.61	22.70	43.50	-20.80	-	-	peak
4	298.5932	28.74	-8.31	20.43	46.00	-25.57	-	-	peak
5	520.2079	29.76	-3.59	26.17	46.00	-19.83	-	-	peak
6	952.0001	31.70	2.25	33.95	46.00	-12.05	-	-	peak

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



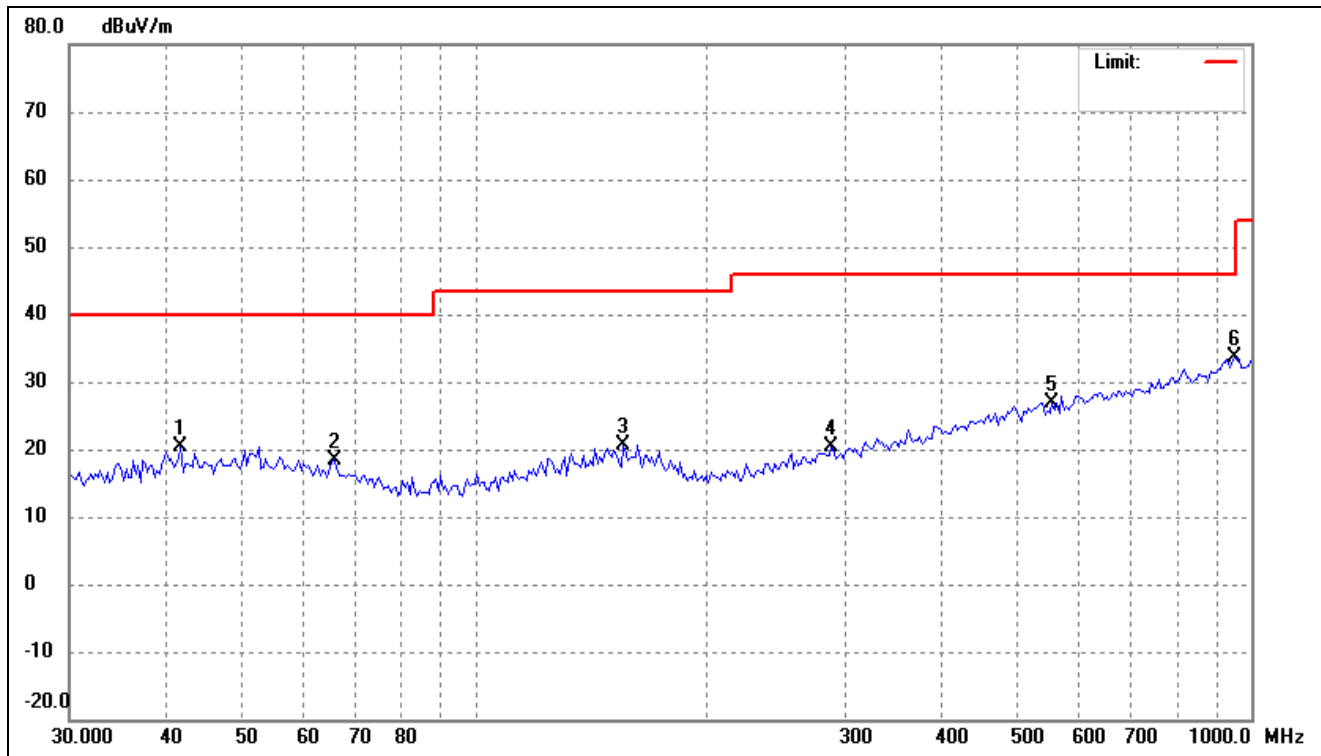
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	41.4483	27.72	-8.48	19.24	40.00	-20.76	-	-	peak
2	70.2096	29.67	-10.81	18.86	40.00	-21.14	-	-	peak
3	159.7586	28.92	-8.61	20.31	43.50	-23.19	-	-	peak
4	360.9775	29.14	-6.83	22.31	46.00	-23.69	-	-	peak
5	542.6104	29.55	-3.05	26.50	46.00	-19.50	-	-	peak
6	938.7139	32.49	2.01	34.50	46.00	-11.50	-	-	peak

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



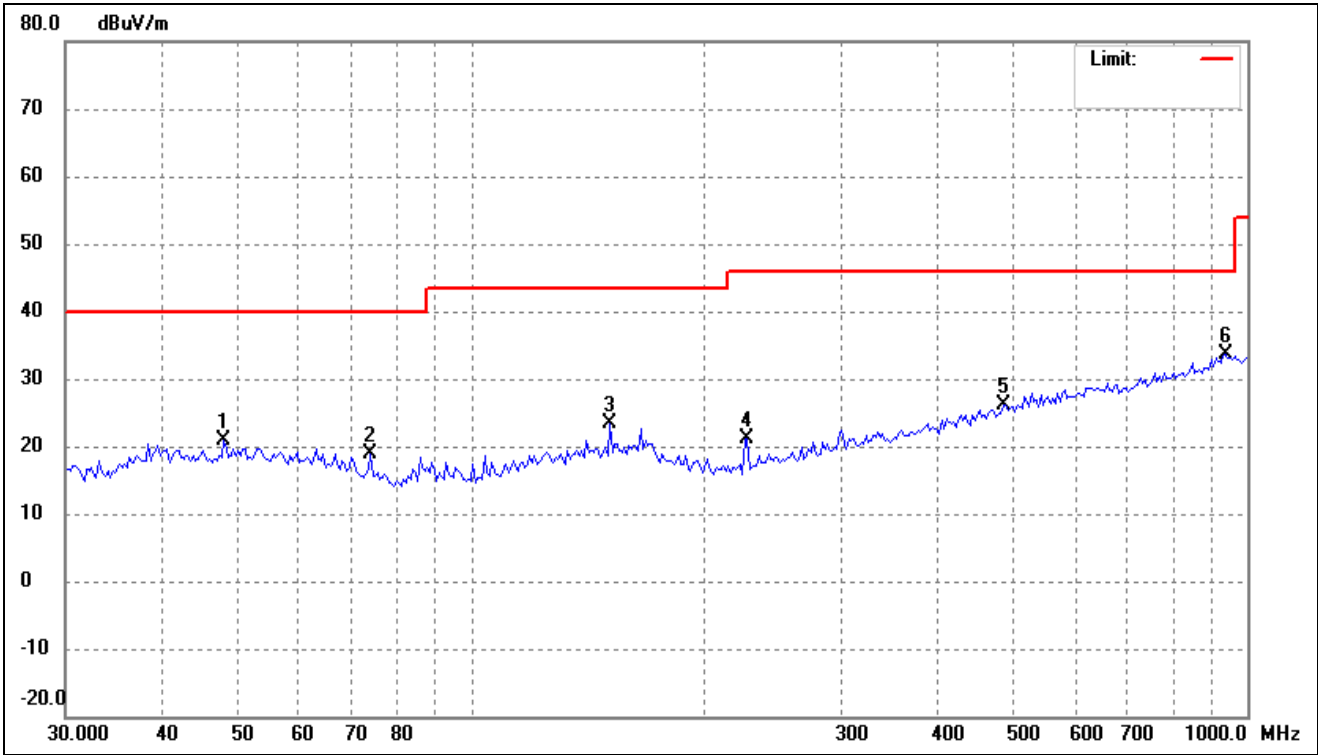
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.7191	28.37	-8.18	20.19	40.00	-19.81	-	-	peak
2	86.0796	34.08	-13.04	21.04	40.00	-18.96	-	-	peak
3	151.0252	30.96	-8.61	22.35	43.50	-21.15	-	-	peak
4	227.0164	31.93	-11.76	20.17	46.00	-25.83	-	-	peak
5	523.8763	30.01	-3.53	26.48	46.00	-19.52	-	-	peak
6	945.3336	32.39	2.15	34.54	46.00	-11.46	-	-	peak

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



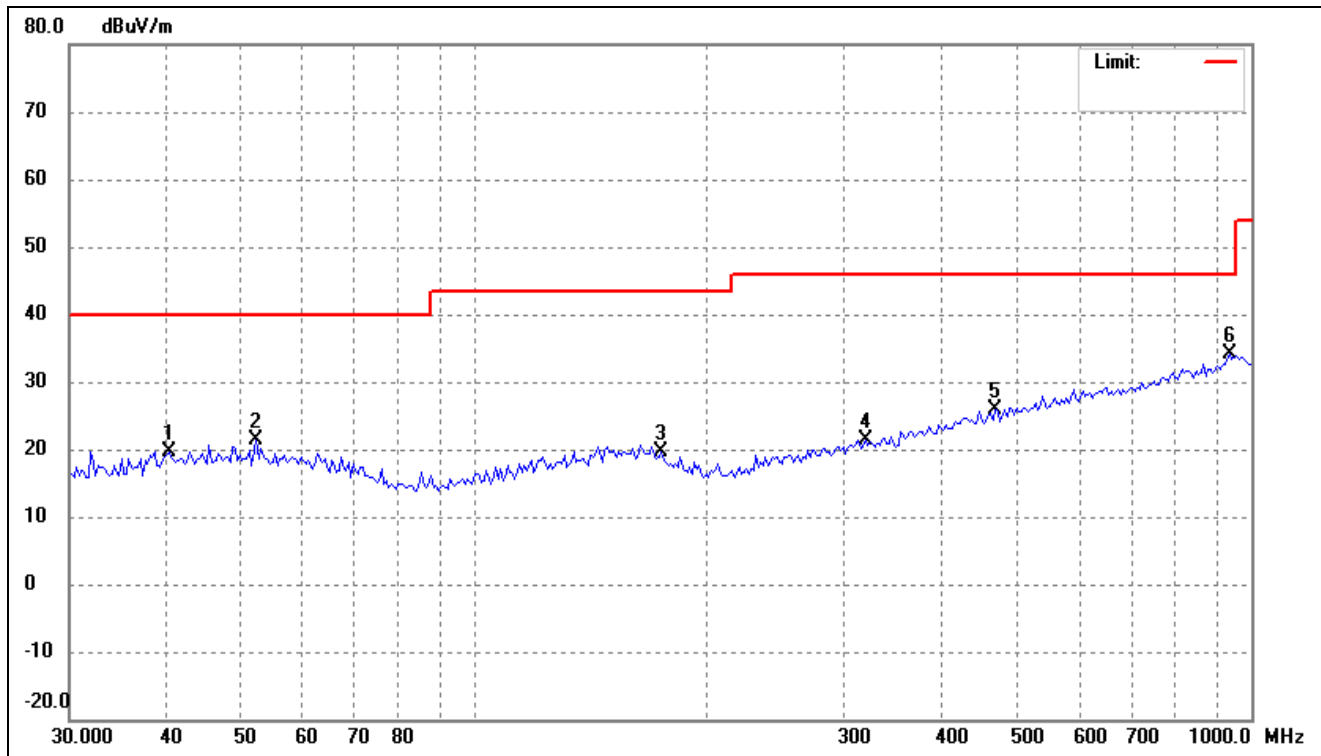
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	41.7406	28.73	-8.47	20.26	40.00	-19.74	-	-	peak
2	65.9067	28.34	-10.02	18.32	40.00	-21.68	-	-	peak
3	155.3305	29.36	-8.61	20.75	43.50	-22.75	-	-	peak
4	288.2840	29.12	-8.66	20.46	46.00	-25.54	-	-	peak
5	554.1708	29.71	-2.75	26.96	46.00	-19.04	-	-	peak
6	952.0001	31.29	2.25	33.54	46.00	-12.46	-	-	peak

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



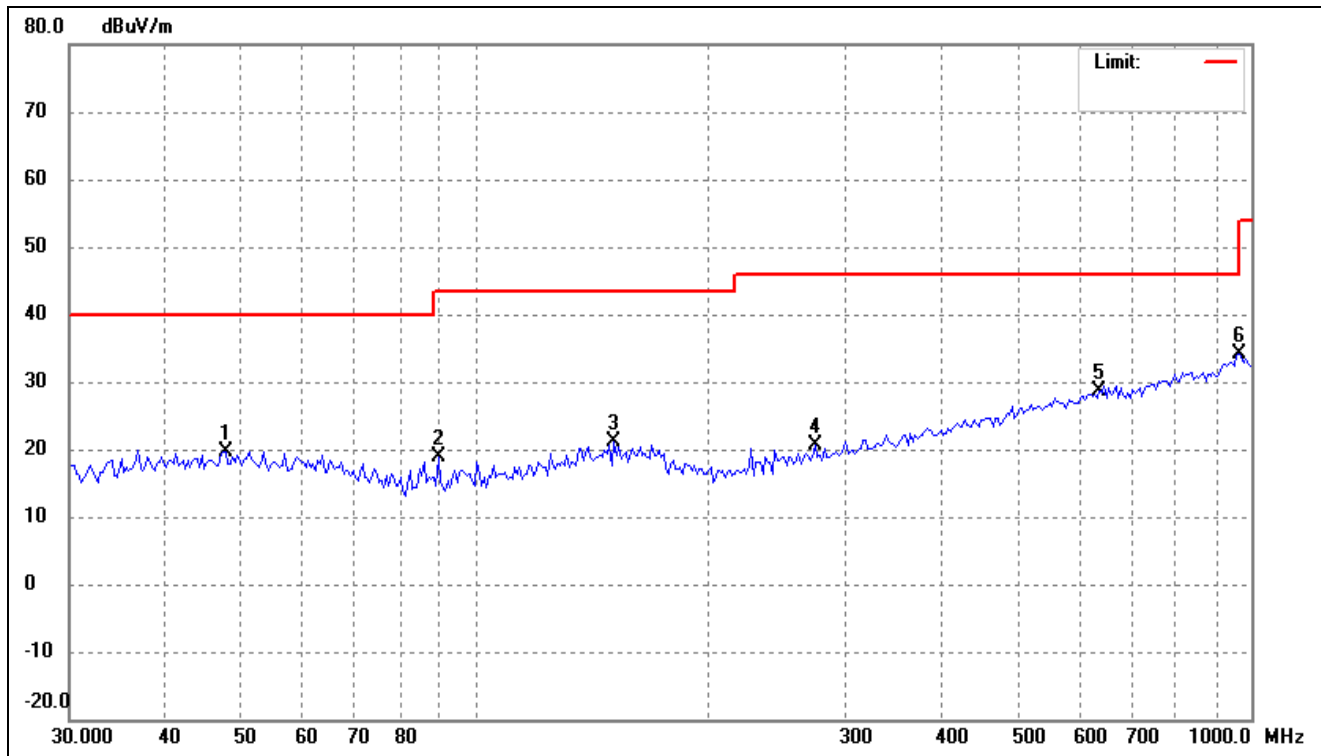
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.0392	29.04	-8.23	20.81	40.00	-19.19	-	-	peak
2	74.2696	30.63	-11.70	18.93	40.00	-21.07	-	-	peak
3	151.0252	31.90	-8.61	23.29	43.50	-20.21	-	-	peak
4	227.0164	32.92	-11.76	21.16	46.00	-24.84	-	-	peak
5	484.9068	30.34	-4.11	26.23	46.00	-19.77	-	-	peak
6	938.7139	31.51	2.01	33.52	46.00	-12.48	-	-	peak

802.11ac-VHT80			
Test Channel	5530MHz(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	40.2995	28.23	-8.48	19.75	40.00	-20.25	-	-	peak
2	52.2659	29.62	-8.33	21.29	40.00	-18.71	-	-	peak
3	173.8147	28.96	-9.42	19.54	43.50	-23.96	-	-	peak
4	318.0875	29.10	-7.75	21.35	46.00	-24.65	-	-	peak
5	468.1651	30.20	-4.34	25.86	46.00	-20.14	-	-	peak
6	938.7139	32.00	2.01	34.01	46.00	-11.99	-	-	peak

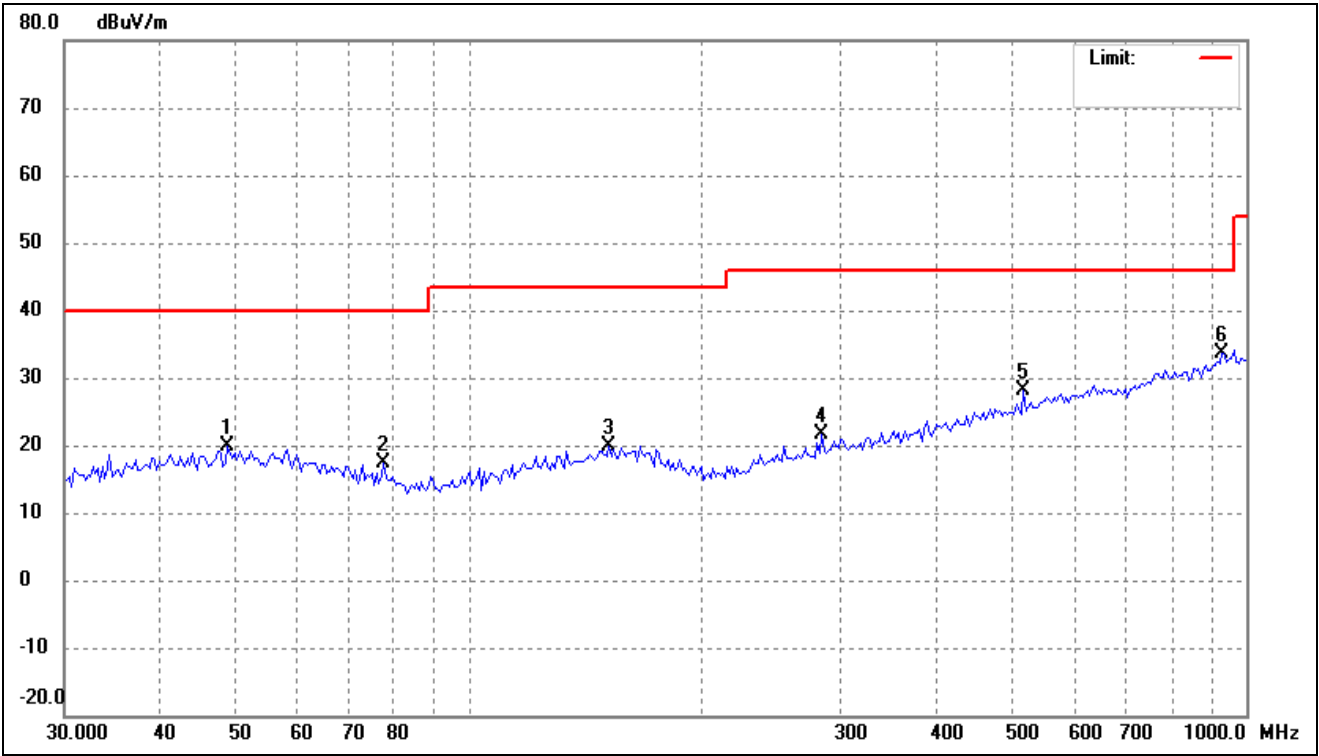
802.11ac-VHT80			
Test Channel	5530MHz(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	47.7028	27.97	-8.27	19.70	40.00	-20.30	-	-	peak
2	89.7866	31.96	-13.10	18.86	43.50	-24.64	-	-	peak
3	151.0252	29.82	-8.61	21.21	43.50	-22.29	-	-	peak
4	274.4464	29.77	-9.13	20.64	46.00	-25.36	-	-	peak
5	637.7947	30.01	-1.36	28.65	46.00	-17.35	-	-	peak
6	965.4742	31.81	2.27	34.08	54.00	-19.92	-	-	peak

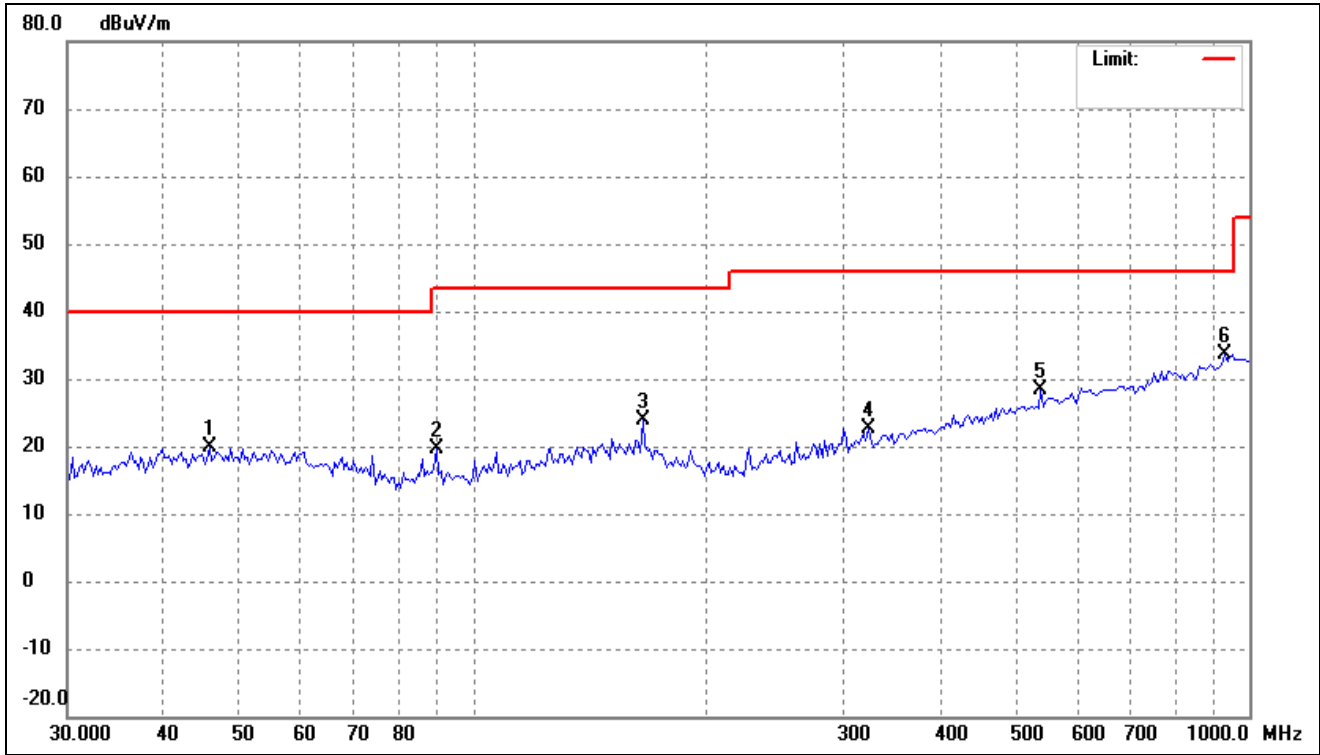
➤ 5725-5850MHz

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



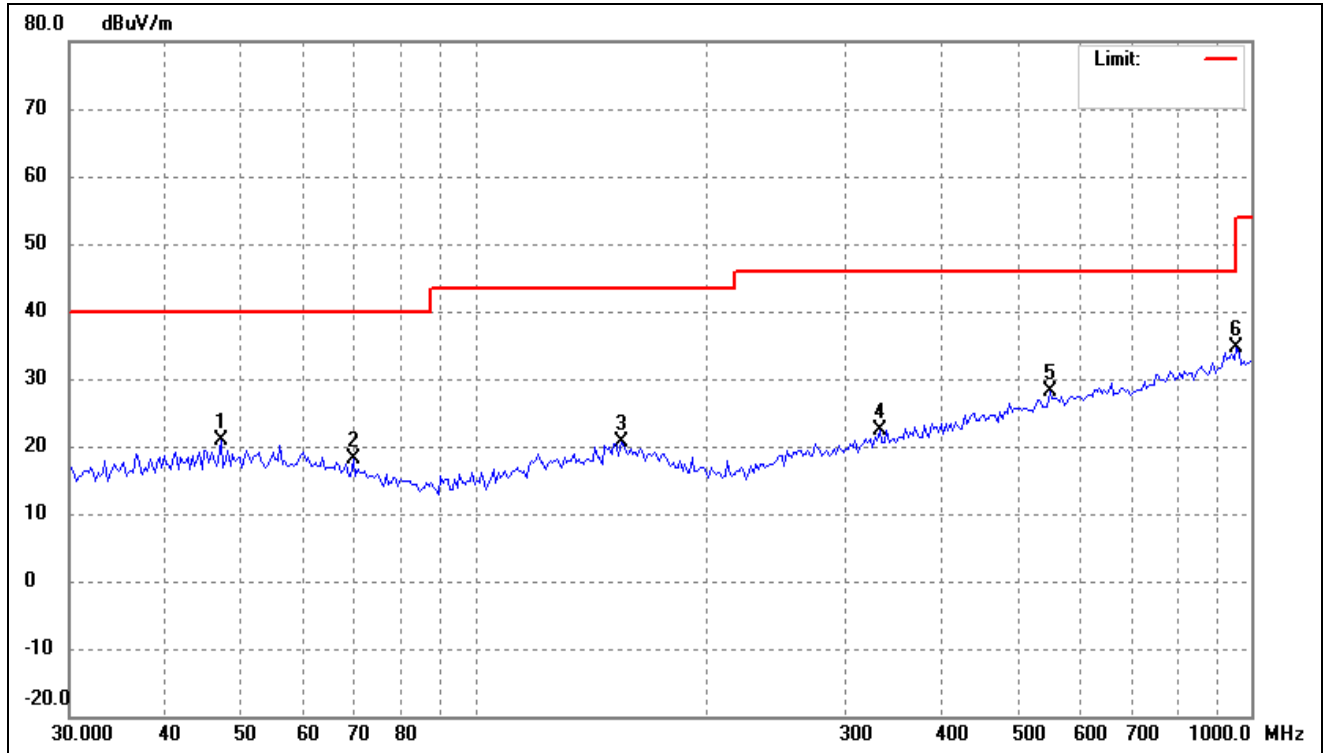
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.7191	28.10	-8.18	19.92	40.00	-20.08	-	-	peak
2	77.4680	29.70	-12.41	17.29	40.00	-22.71	-	-	peak
3	151.0252	28.43	-8.61	19.82	43.50	-23.68	-	-	peak
4	284.2607	30.51	-8.79	21.72	46.00	-24.28	-	-	peak
5	516.5651	31.84	-3.65	28.19	46.00	-17.81	-	-	peak
6	932.1405	31.65	1.87	33.52	46.00	-12.48	-	-	peak

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



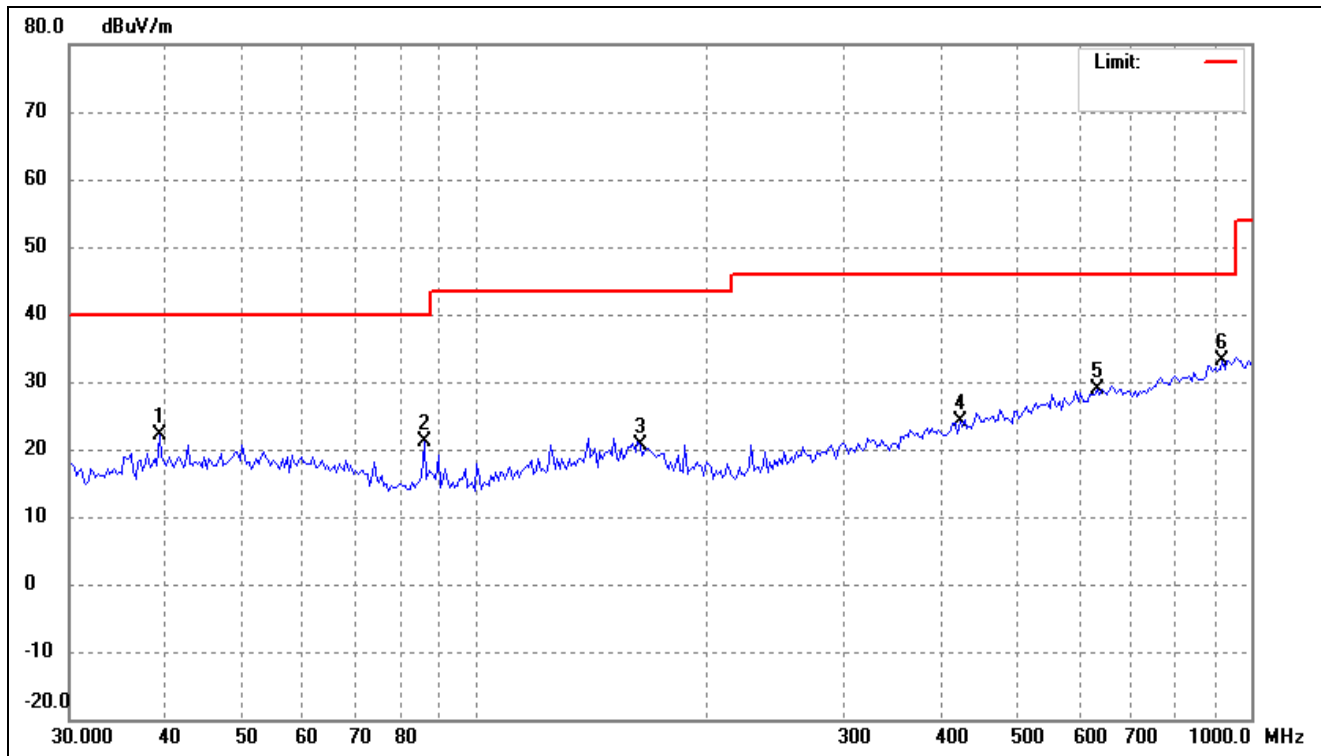
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.7333	28.19	-8.41	19.78	40.00	-20.22	-	-	peak
2	89.7866	32.79	-13.10	19.69	43.50	-23.81	-	-	peak
3	165.4716	32.56	-8.76	23.80	43.50	-19.70	-	-	peak
4	322.5896	30.32	-7.62	22.70	46.00	-23.30	-	-	peak
5	538.8107	31.47	-3.15	28.32	46.00	-17.68	-	-	peak
6	932.1405	31.77	1.87	33.64	46.00	-12.36	-	-	peak

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



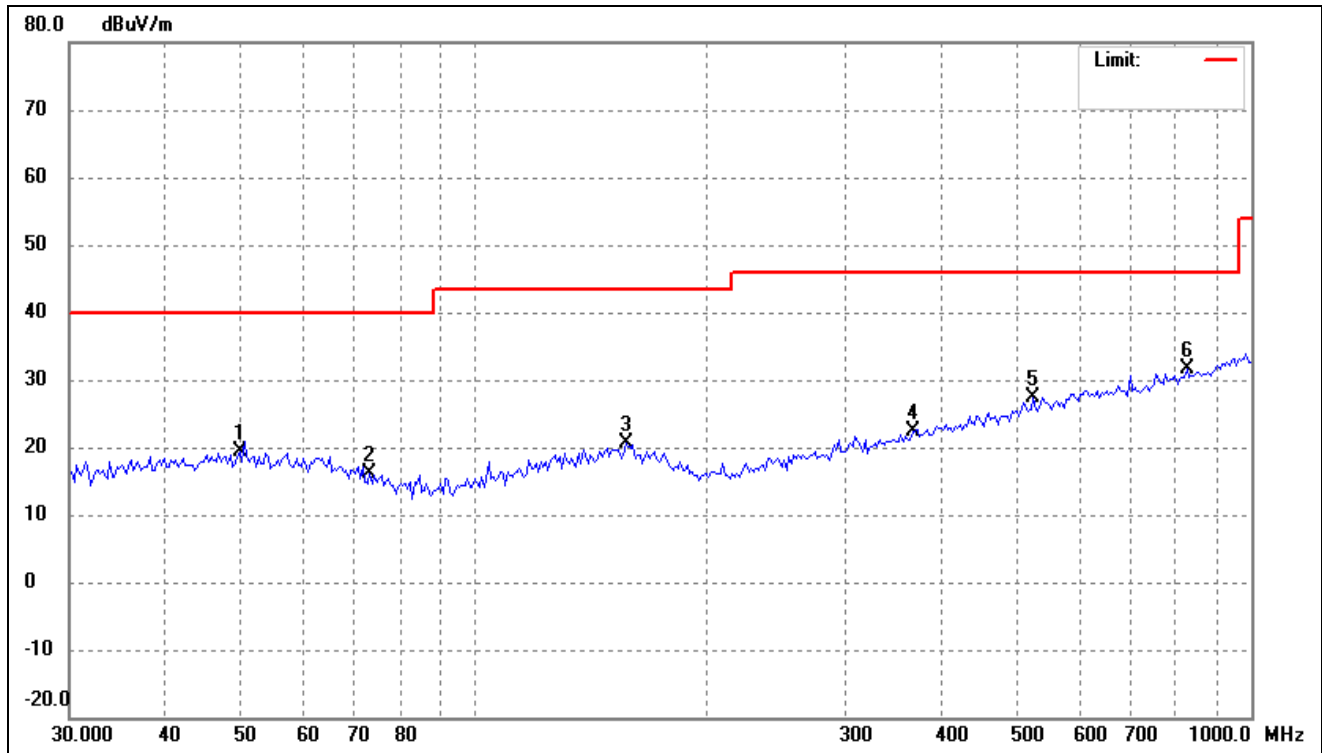
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	47.0371	29.28	-8.32	20.96	40.00	-19.04	-	-	peak
2	69.7179	28.92	-10.71	18.21	40.00	-21.79	-	-	peak
3	154.2428	29.34	-8.60	20.74	43.50	-22.76	-	-	peak
4	331.7858	29.76	-7.43	22.33	46.00	-23.67	-	-	peak
5	550.2902	30.90	-2.84	28.06	46.00	-17.94	-	-	peak
6	958.7135	32.28	2.26	34.54	46.00	-11.46	-	-	peak

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



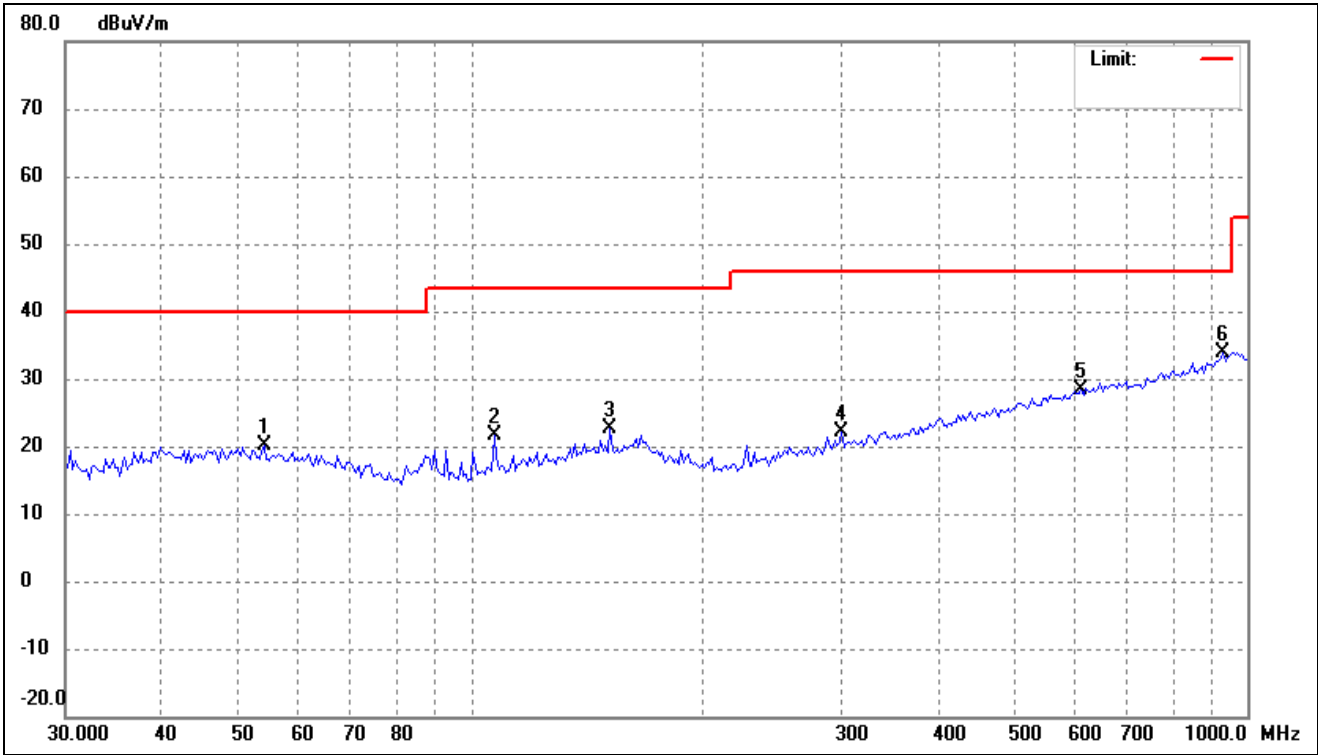
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	39.1824	30.74	-8.65	22.09	40.00	-17.91	-	-	peak
2	86.0796	34.12	-13.04	21.08	40.00	-18.92	-	-	peak
3	163.1622	29.44	-8.70	20.74	43.50	-22.76	-	-	peak
4	421.3287	29.41	-5.38	24.03	46.00	-21.97	-	-	peak
5	633.3284	30.21	-1.37	28.84	46.00	-17.16	-	-	peak
6	919.1315	31.51	1.59	33.10	46.00	-12.90	-	-	peak

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



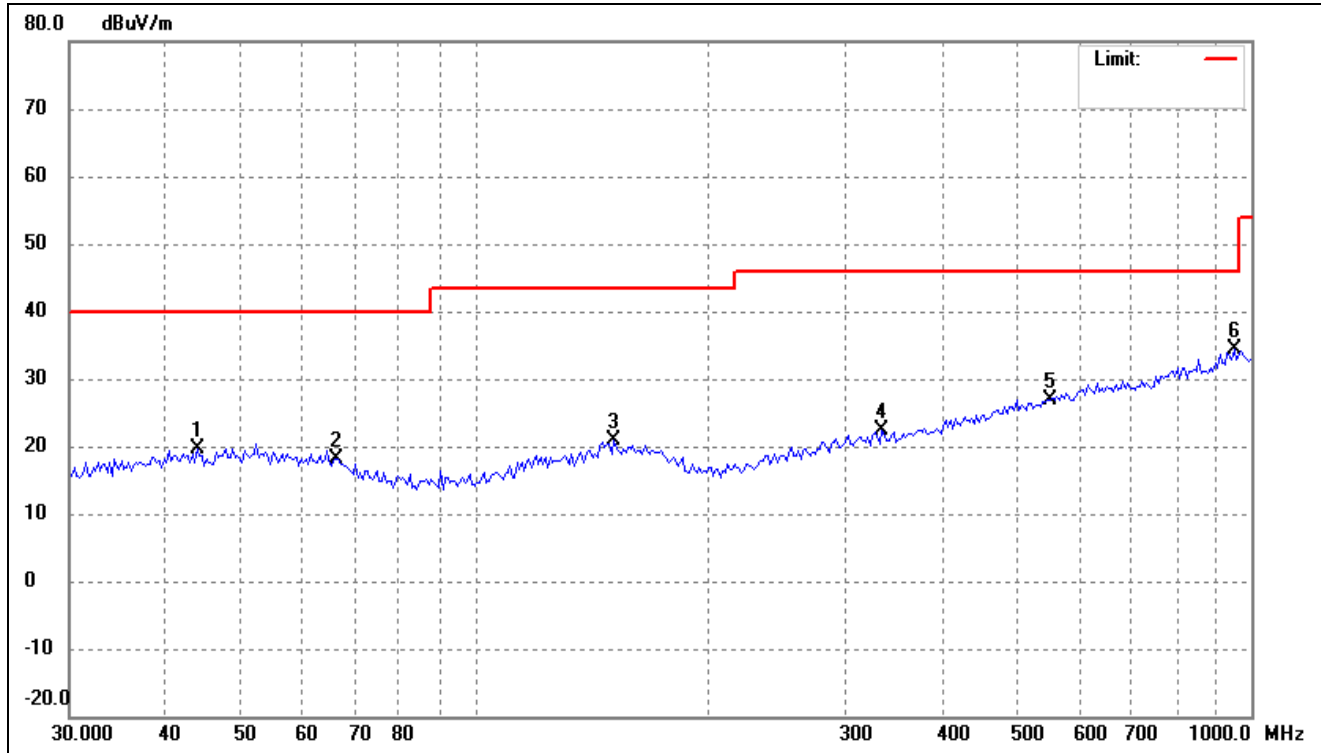
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.7571	27.45	-8.09	19.36	40.00	-20.64	-	-	peak
2	73.2331	27.63	-11.47	16.16	40.00	-23.84	-	-	peak
3	156.4259	29.17	-8.60	20.57	43.50	-22.93	-	-	peak
4	366.0866	29.01	-6.70	22.31	46.00	-23.69	-	-	peak
5	523.8763	30.91	-3.53	27.38	46.00	-18.62	-	-	peak
6	827.1795	31.18	0.54	31.72	46.00	-14.28	-	-	peak

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



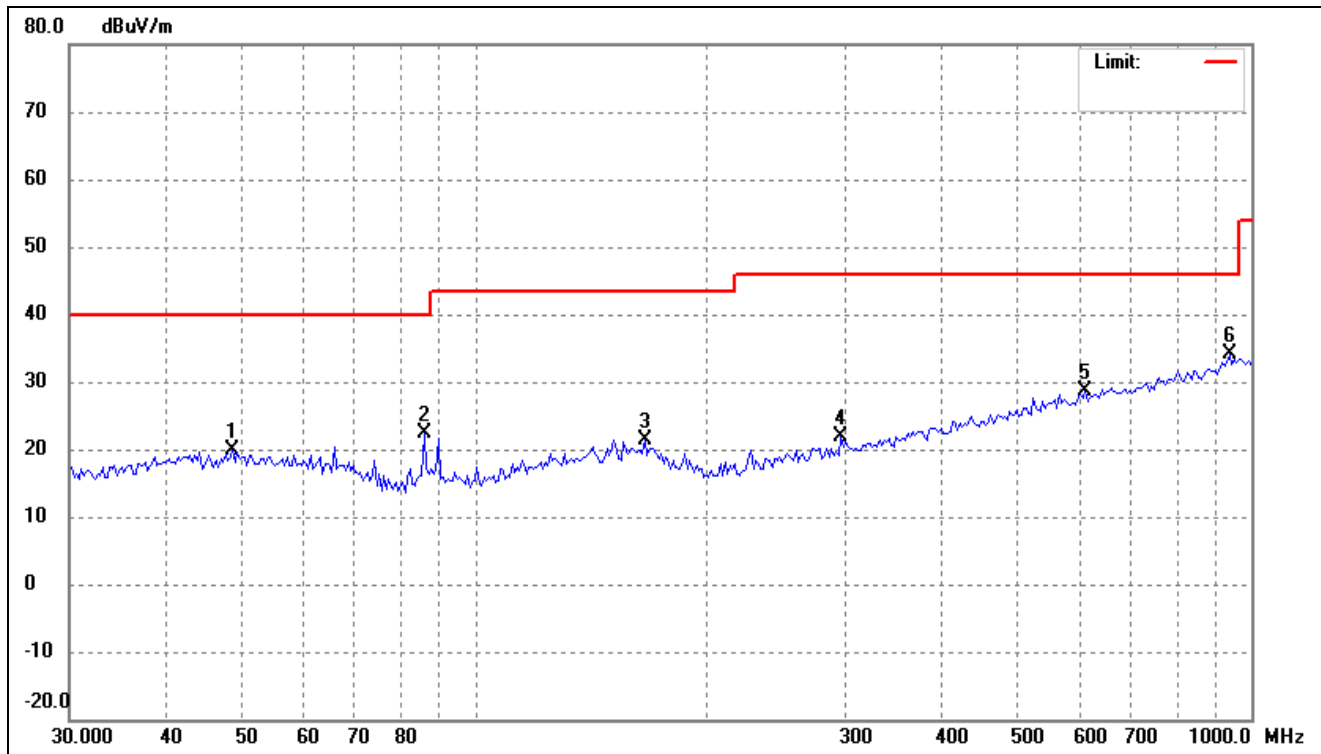
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	54.1349	28.57	-8.54	20.03	40.00	-19.97	-	-	peak
2	107.0306	33.46	-11.85	21.61	43.50	-21.89	-	-	peak
3	151.0252	31.20	-8.61	22.59	43.50	-20.91	-	-	peak
4	300.6988	30.26	-8.24	22.02	46.00	-23.98	-	-	peak
5	611.4623	30.03	-1.59	28.44	46.00	-17.56	-	-	peak
6	932.1405	32.05	1.87	33.92	46.00	-12.08	-	-	peak

802.11ac-VHT80			
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	43.8452	28.02	-8.48	19.54	40.00	-20.46	-	-	peak
2	66.3715	28.17	-10.11	18.06	40.00	-21.94	-	-	peak
3	151.0252	29.60	-8.61	20.99	43.50	-22.51	-	-	peak
4	334.1255	29.67	-7.39	22.28	46.00	-23.72	-	-	peak
5	546.4368	29.79	-2.94	26.85	46.00	-19.15	-	-	peak
6	952.0001	32.17	2.25	34.42	46.00	-11.58	-	-	peak

802.11ac-VHT80			
Test Channel	5745MHz(worst case)	Polarity:	Vertical

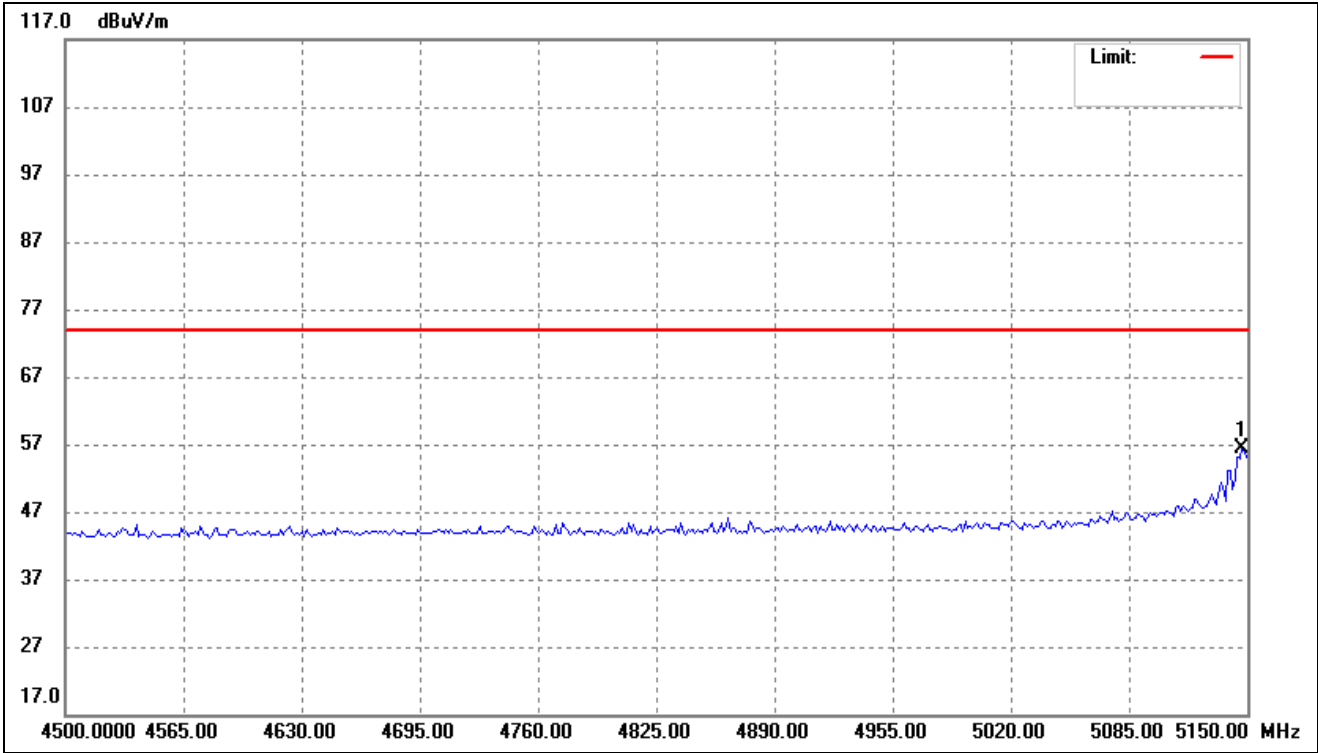


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.7191	28.18	-8.18	20.00	40.00	-20.00	-	-	peak
2	86.0796	35.44	-13.04	22.40	40.00	-17.60	-	-	peak
3	165.4716	30.22	-8.76	21.46	43.50	-22.04	-	-	peak
4	296.5023	30.14	-8.38	21.76	46.00	-24.24	-	-	peak
5	611.4623	30.29	-1.59	28.70	46.00	-17.30	-	-	peak
6	938.7139	32.18	2.01	34.19	46.00	-11.81	-	-	peak

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

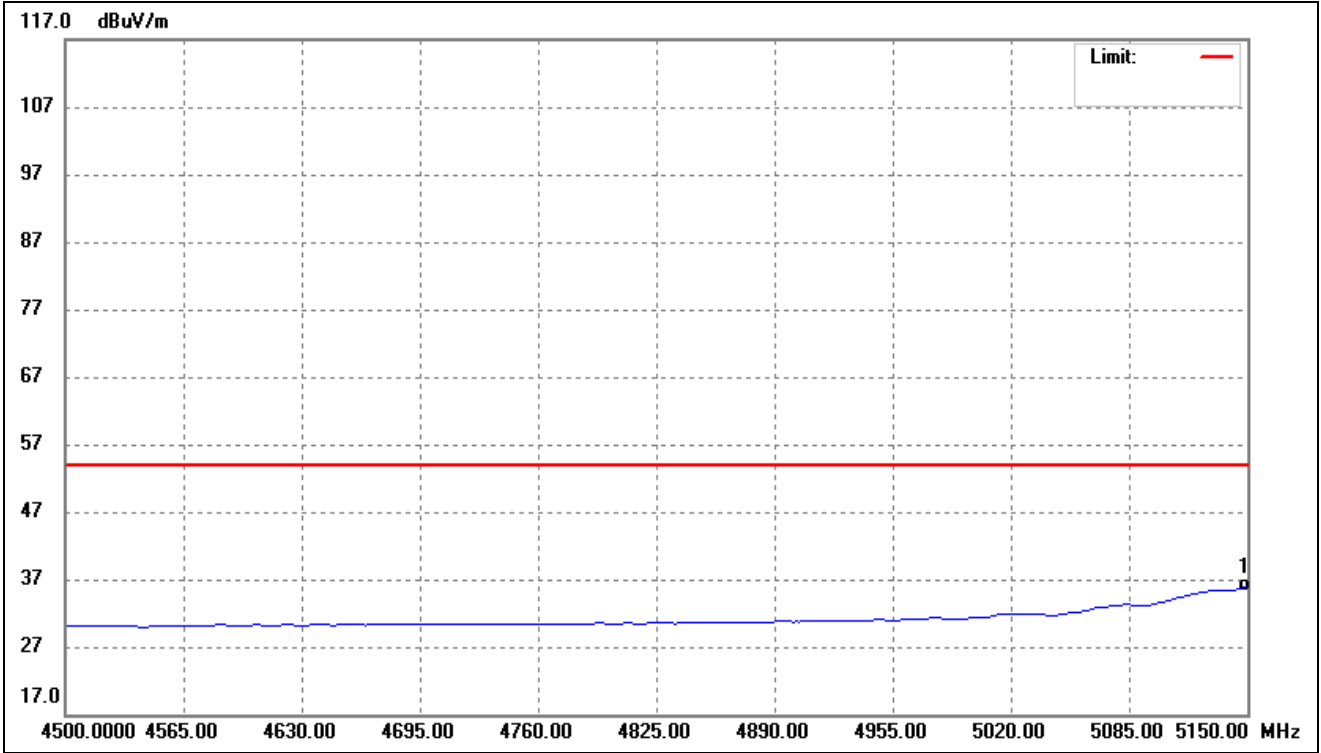
➤ Spurious Emission above 1GHz

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



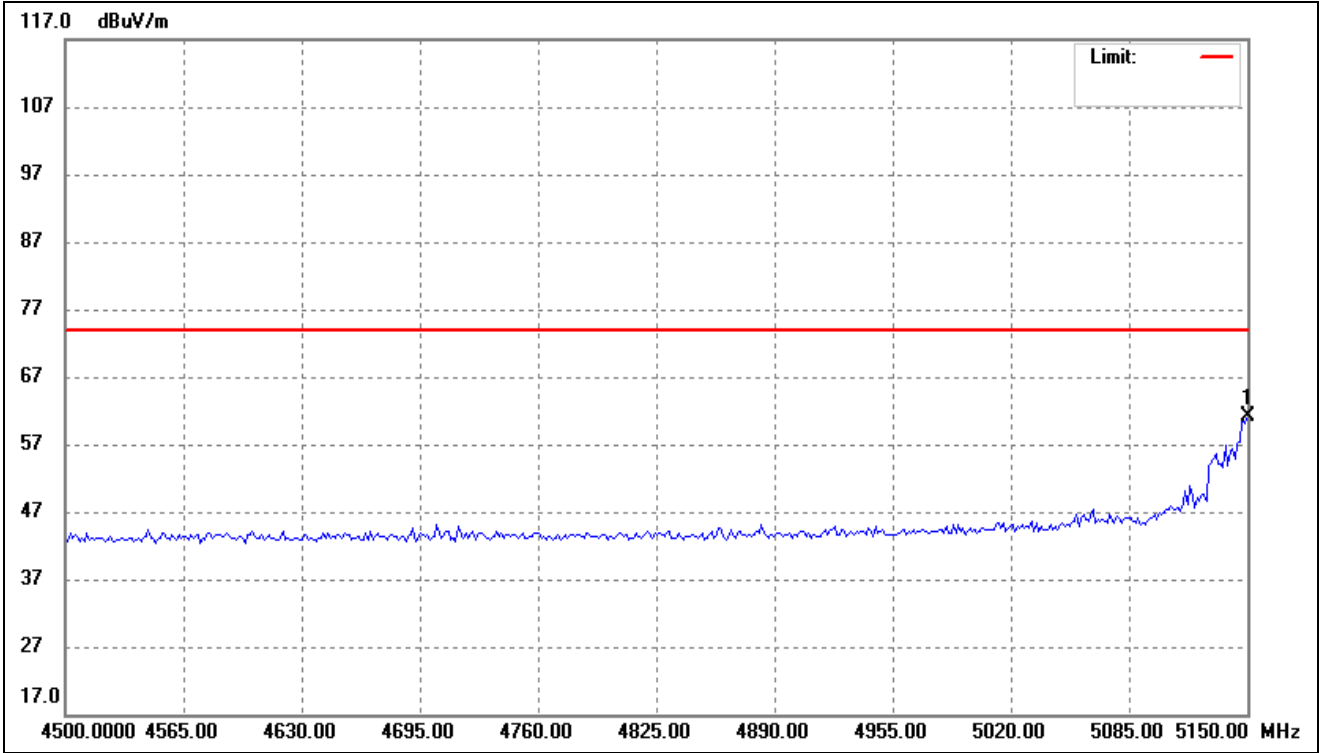
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5147.395	67.95	-11.67	56.28	74.00	-17.72	-	-	peak

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



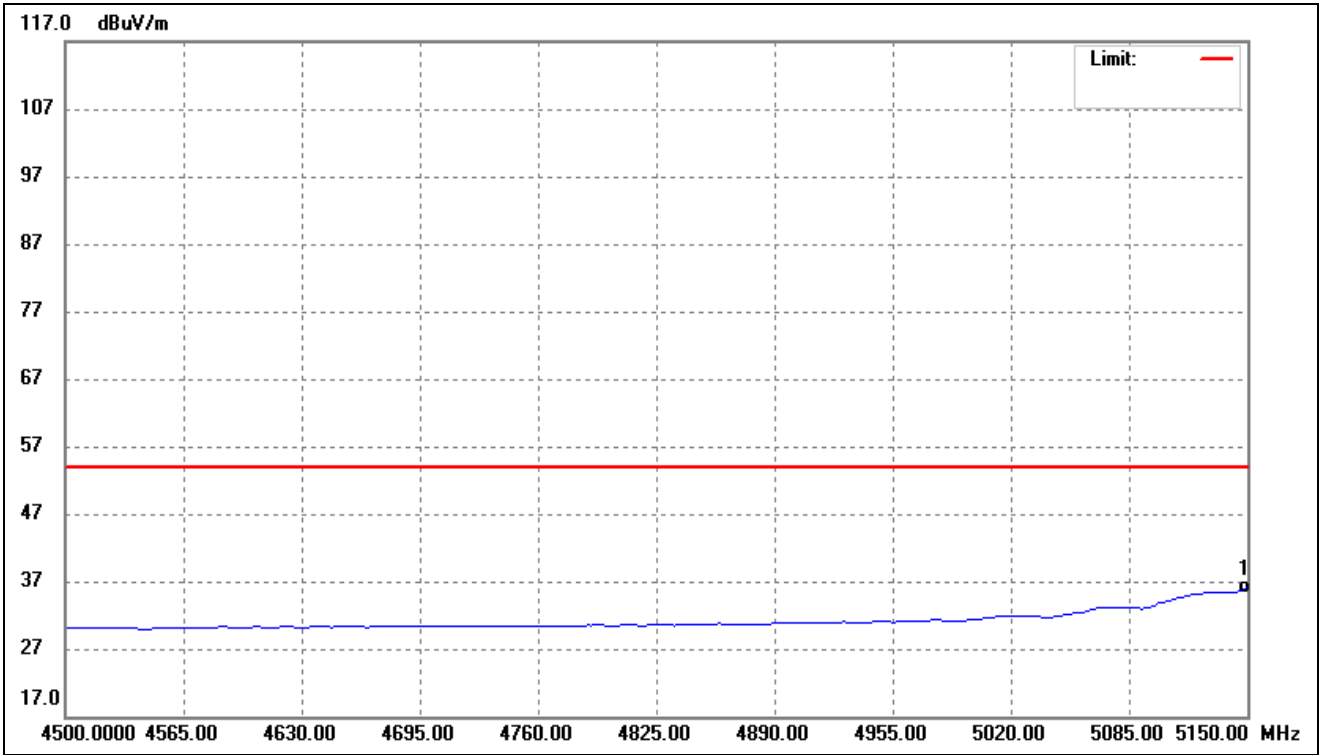
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	47.81	-11.66	36.15	54.00	-17.85	-	-	AVG

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



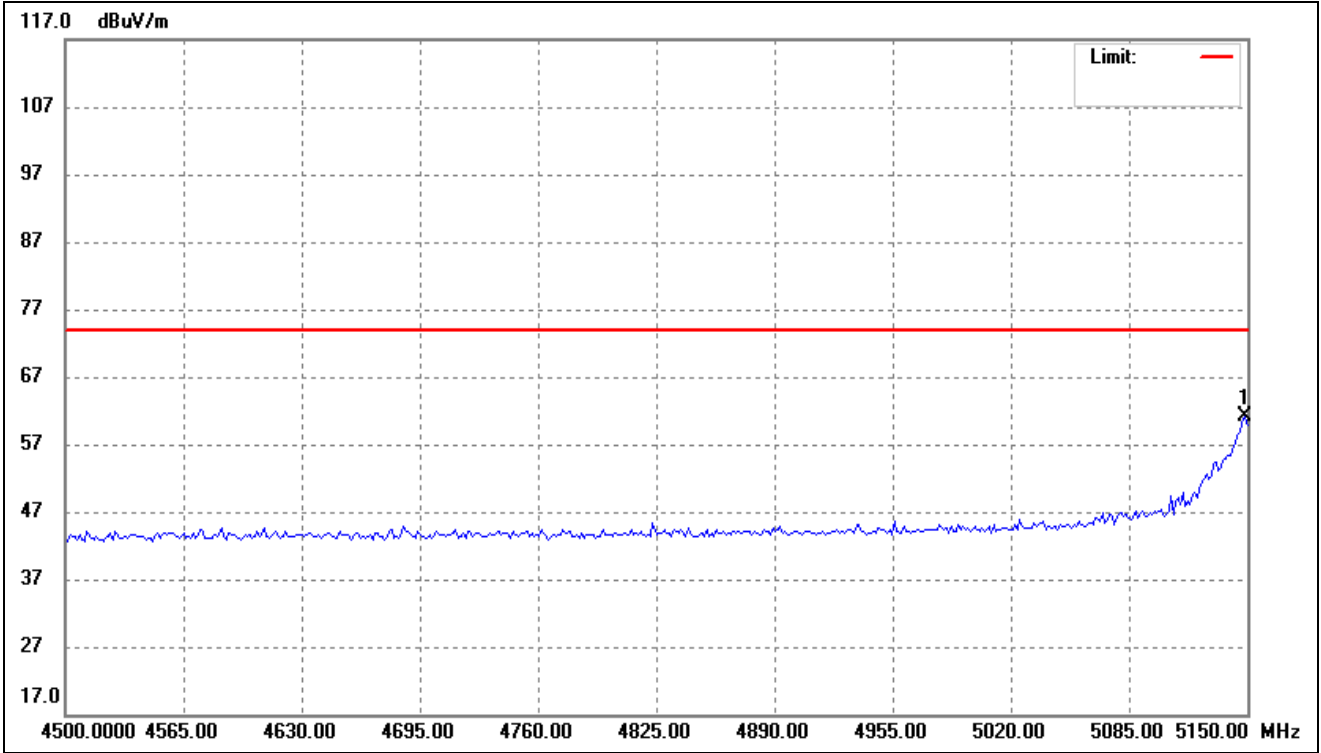
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	72.85	-11.66	61.19	74.00	-12.81	-	-	peak

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



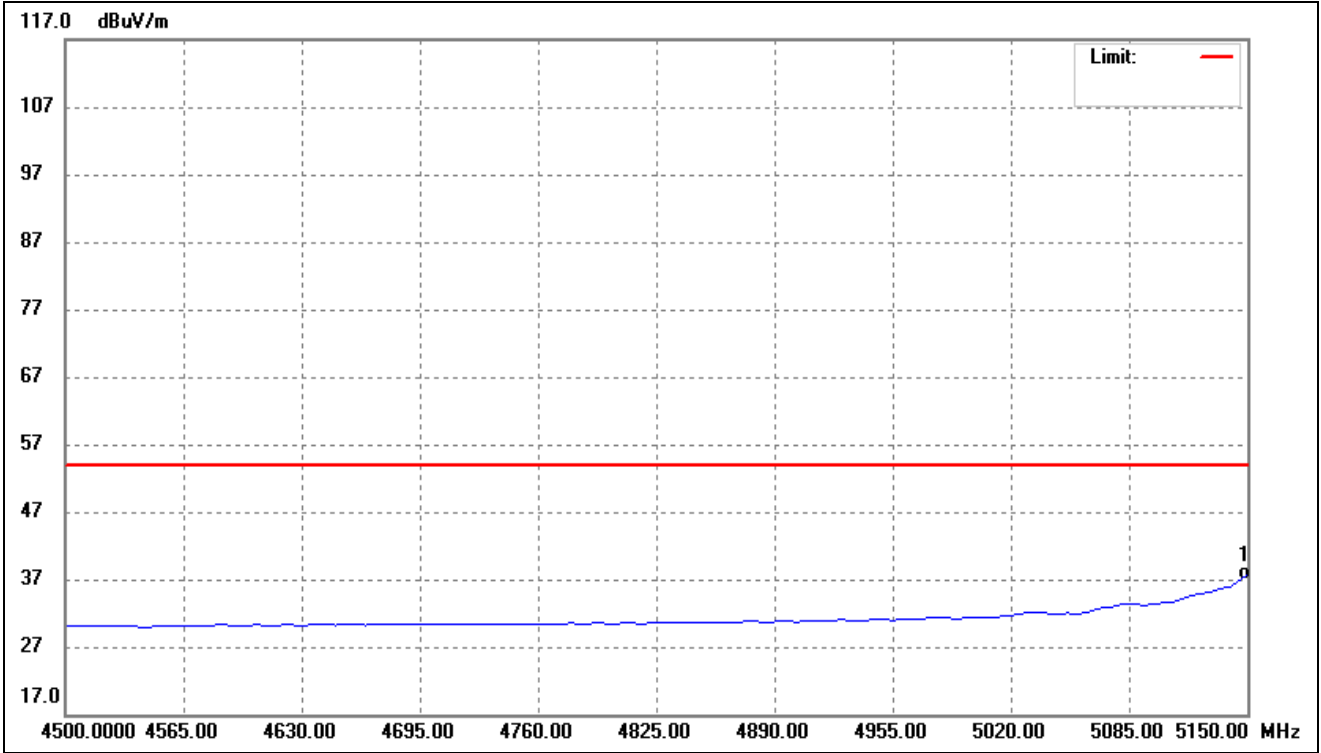
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	47.72	-11.66	36.06	54.00	-17.94	-	-	AVG

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



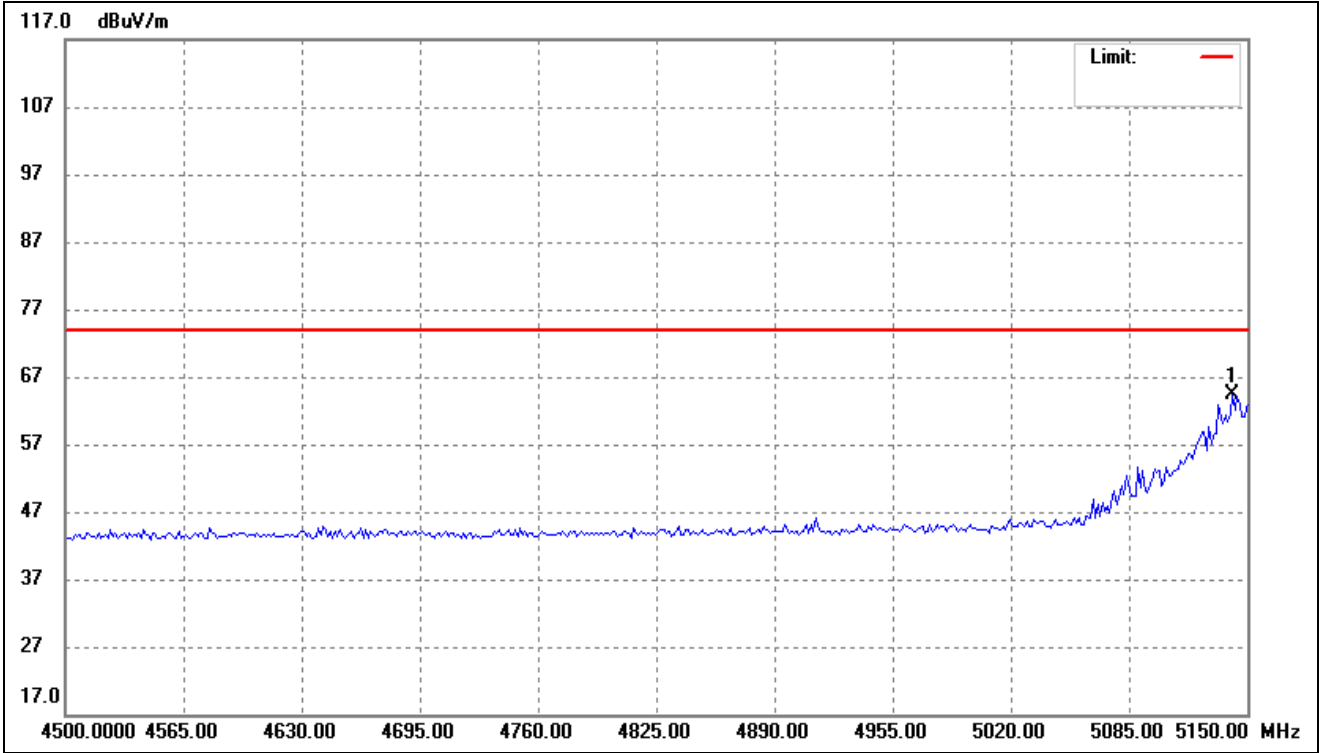
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5148.697	72.83	-11.66	61.17	74.00	-12.83	-	-	peak

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



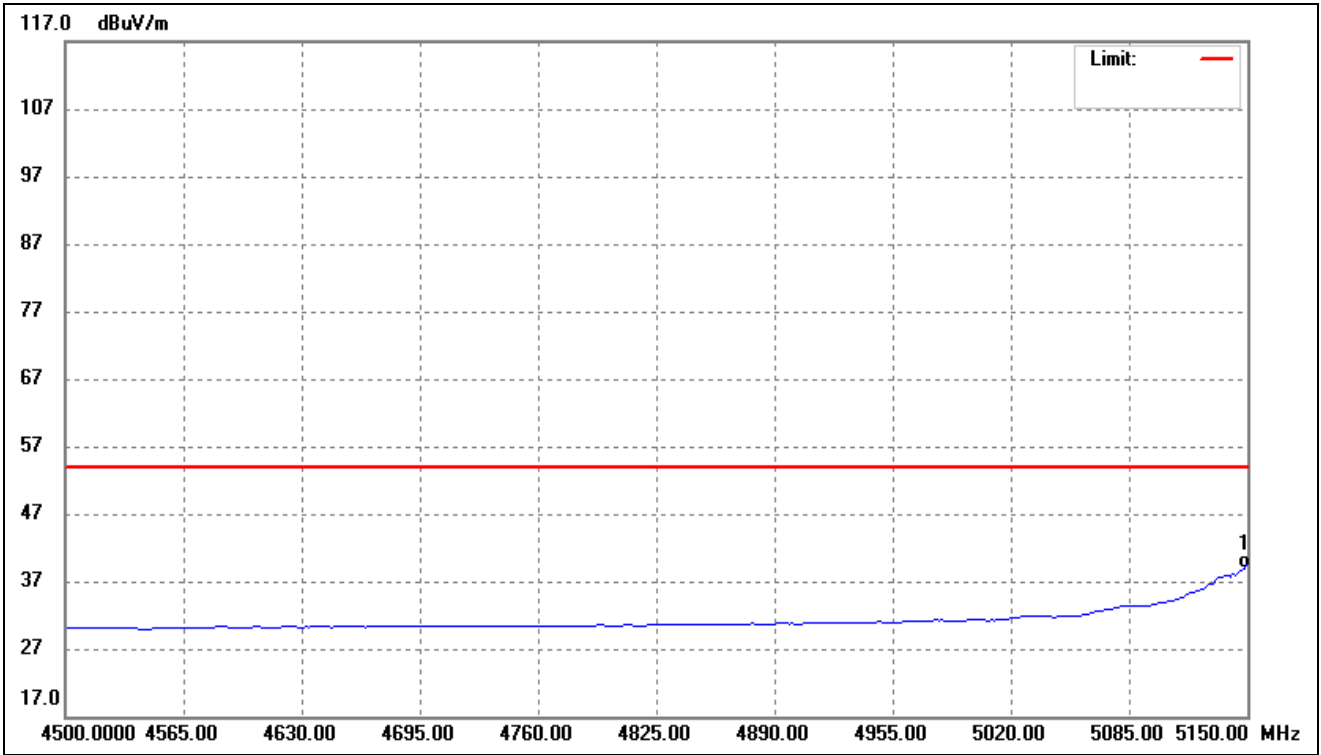
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	49.51	-11.66	37.85	54.00	-16.15	-	-	AVG

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



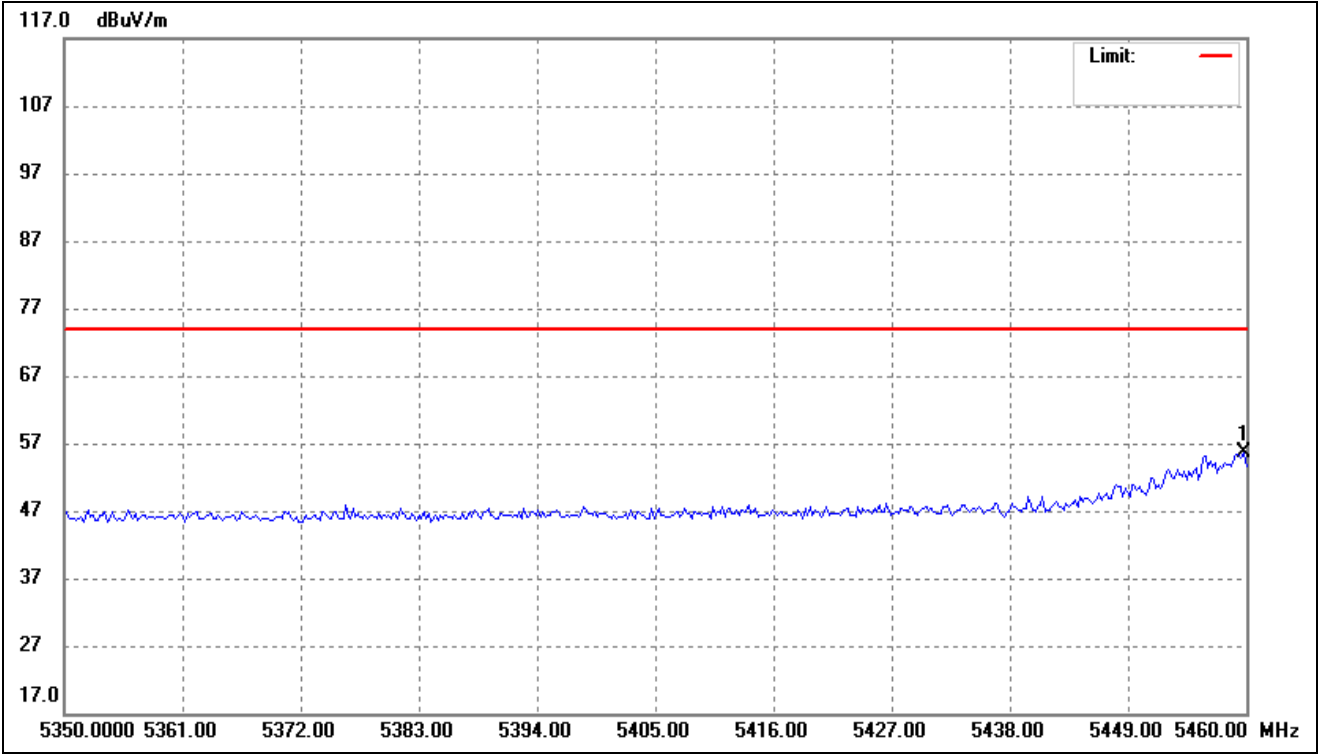
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5142.184	76.10	-11.70	64.40	74.00	-9.60	-	-	peak

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



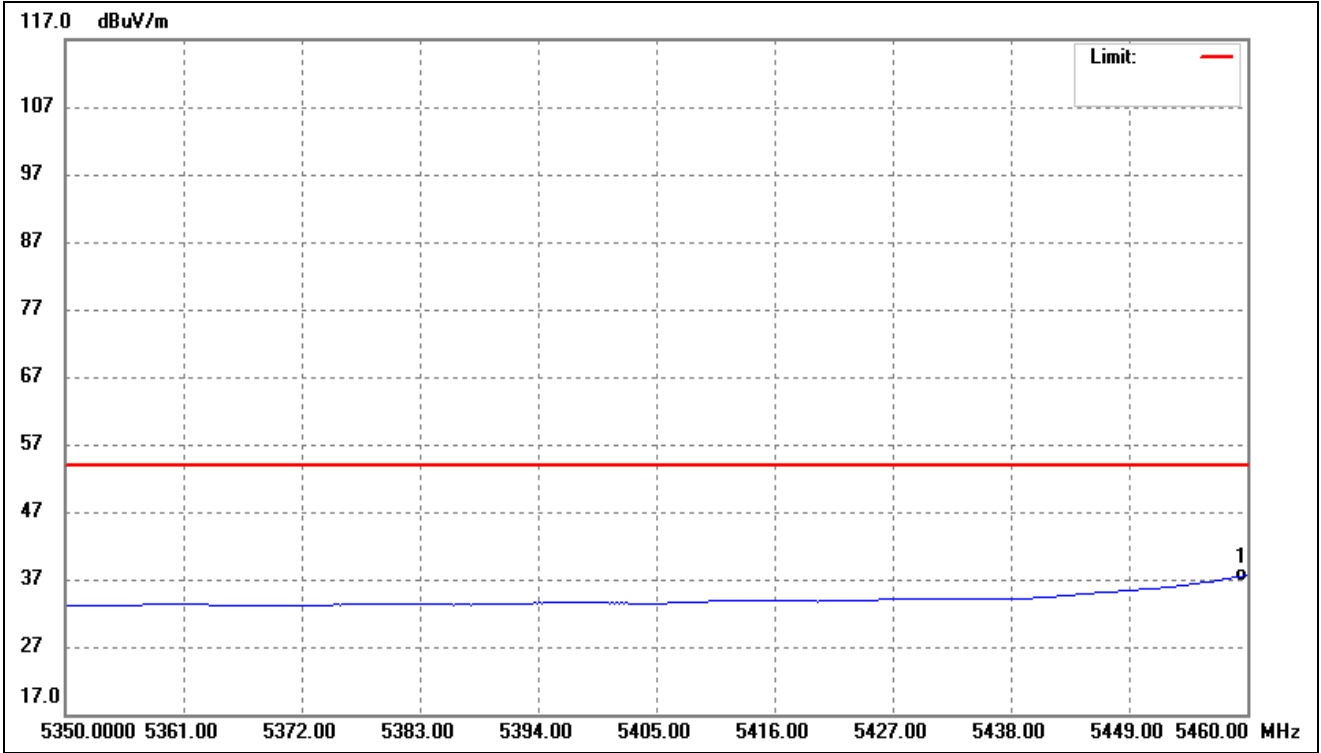
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5150.000	51.42	-11.66	39.76	54.00	-14.24	-	-	AVG

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



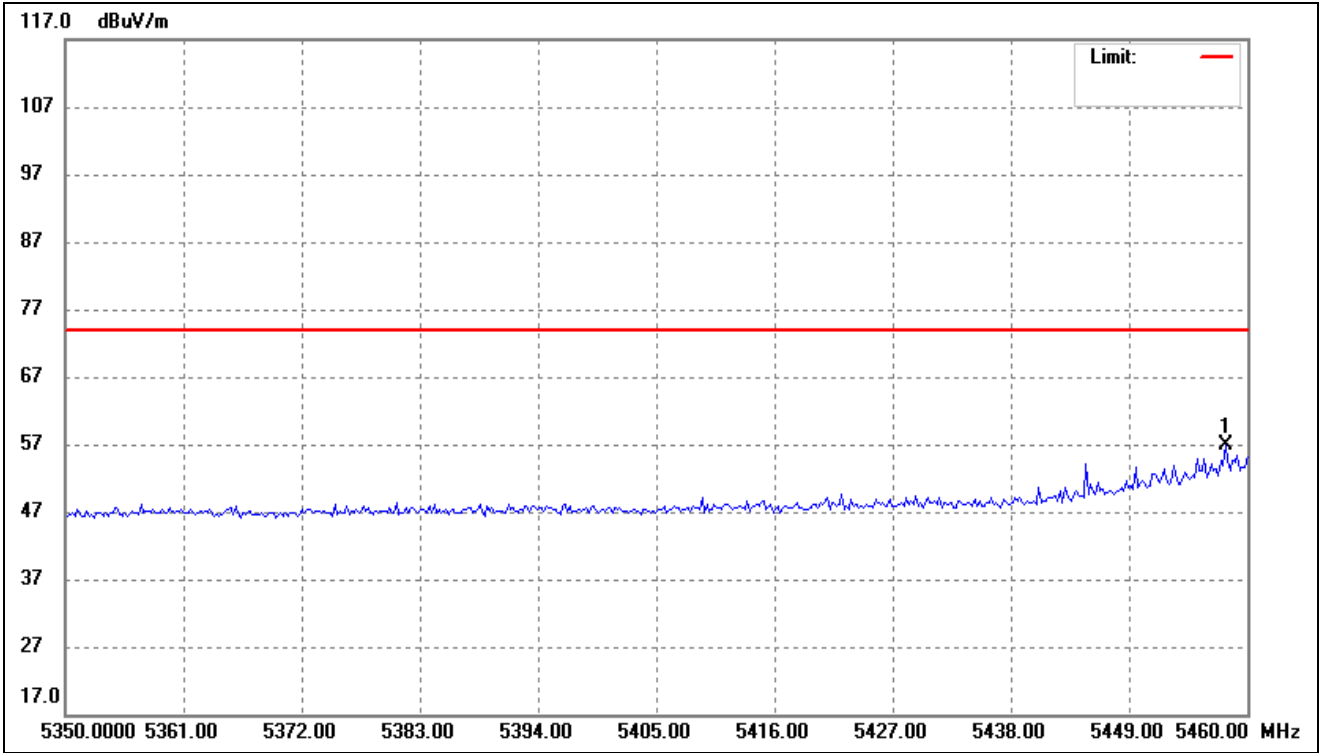
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5459.780	65.74	-10.13	55.61	74.00	-18.39	-	-	peak

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



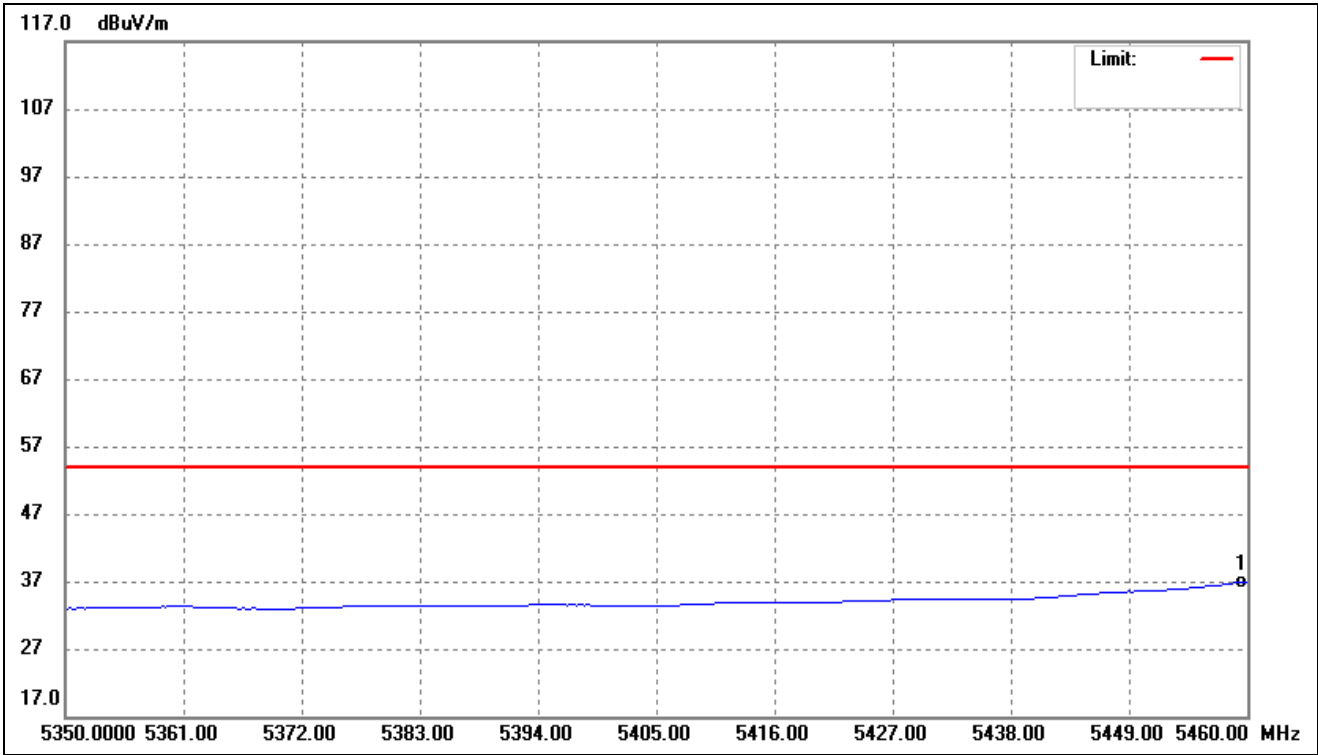
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5460.000	47.78	-10.13	37.65	54.00	-16.35	-	-	AVG

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



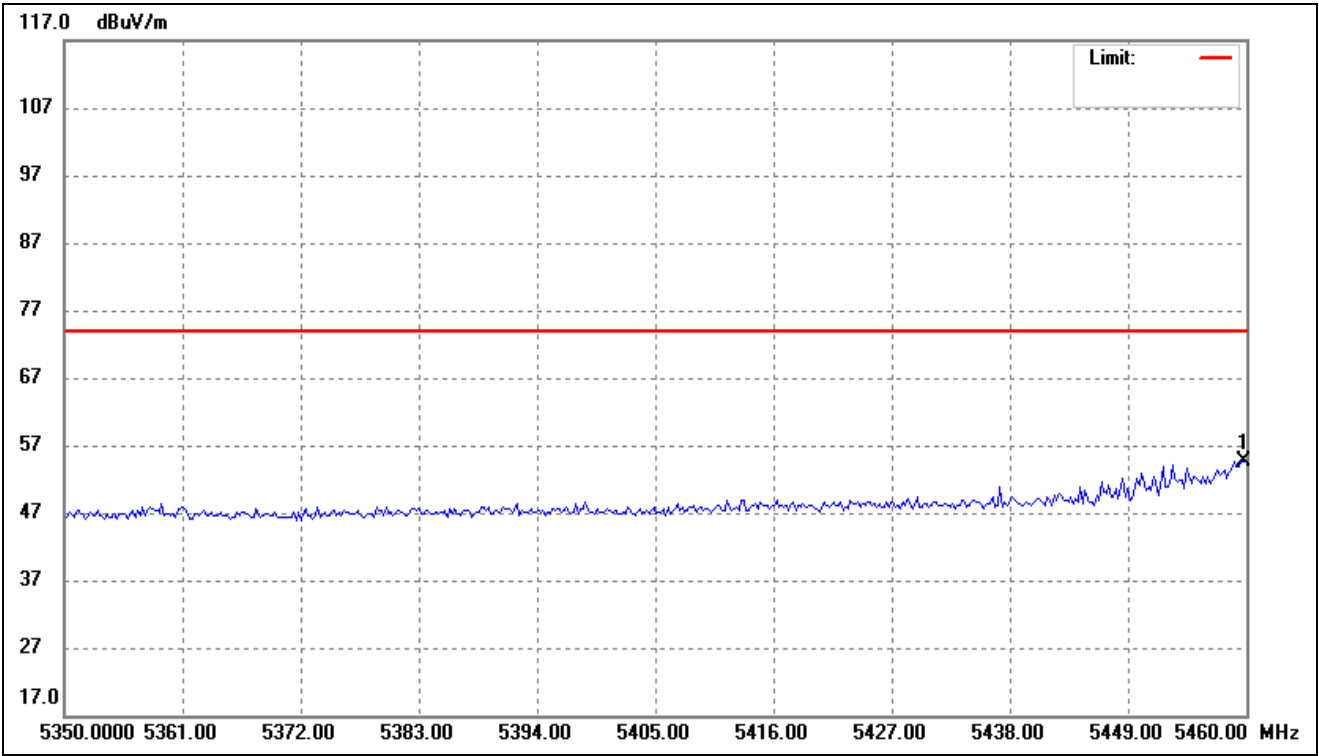
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5458.016	66.92	-10.14	56.78	74.00	-17.22	-	-	peak

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



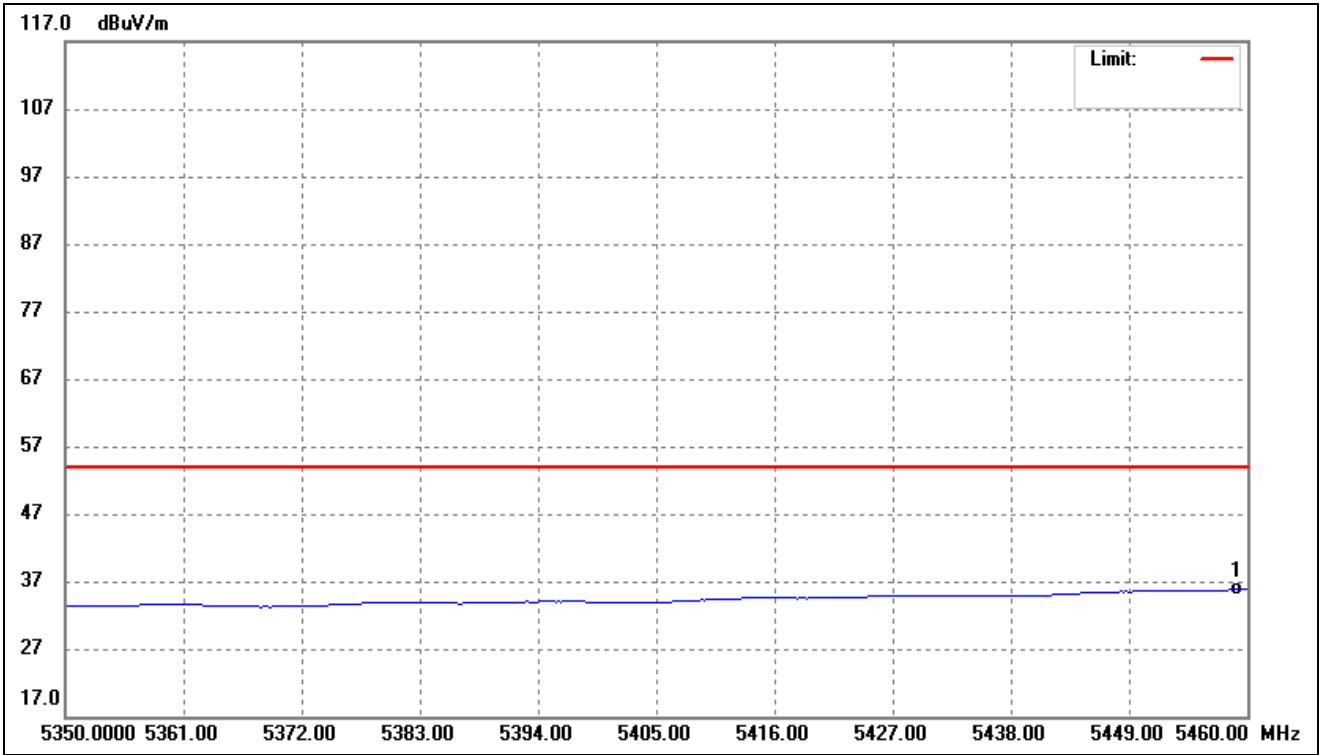
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5460.000	47.12	-10.13	36.99	54.00	-17.01	-	-	AVG

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



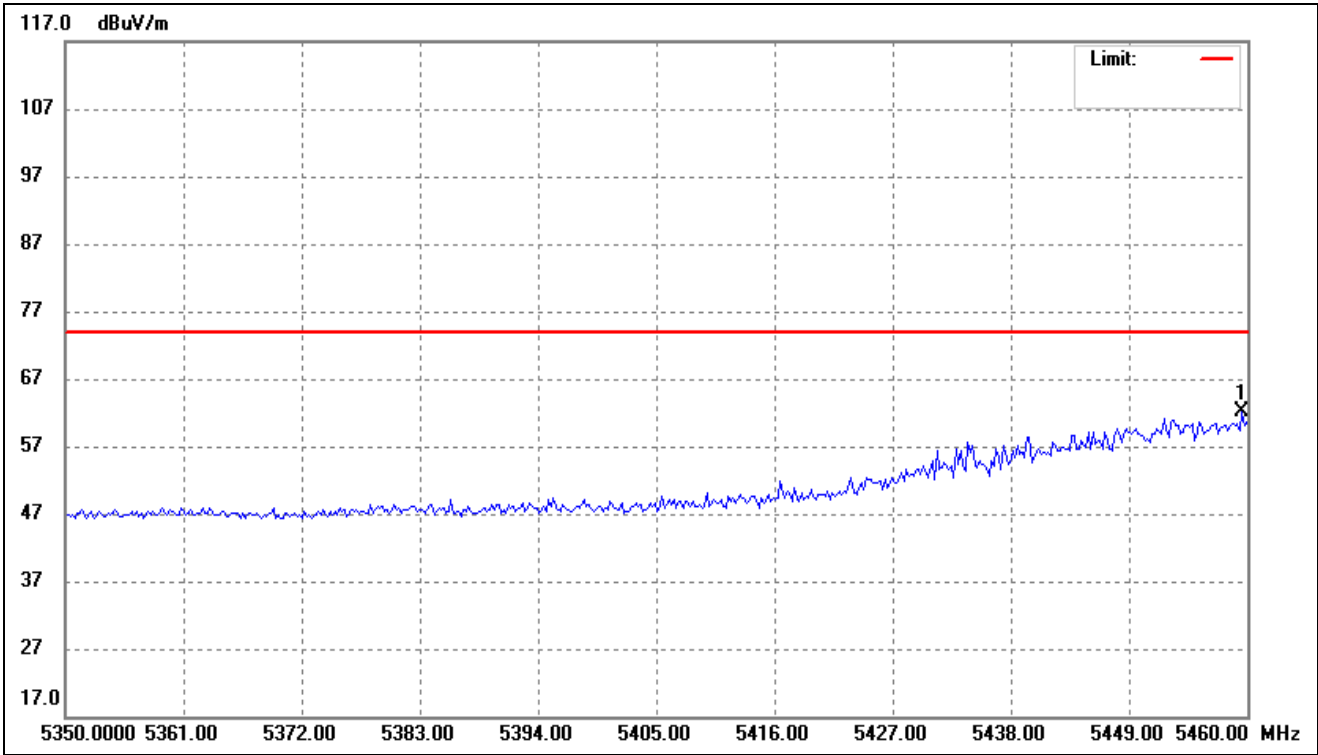
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5459.780	64.88	-10.13	54.75	74.00	-19.25	-	-	peak

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



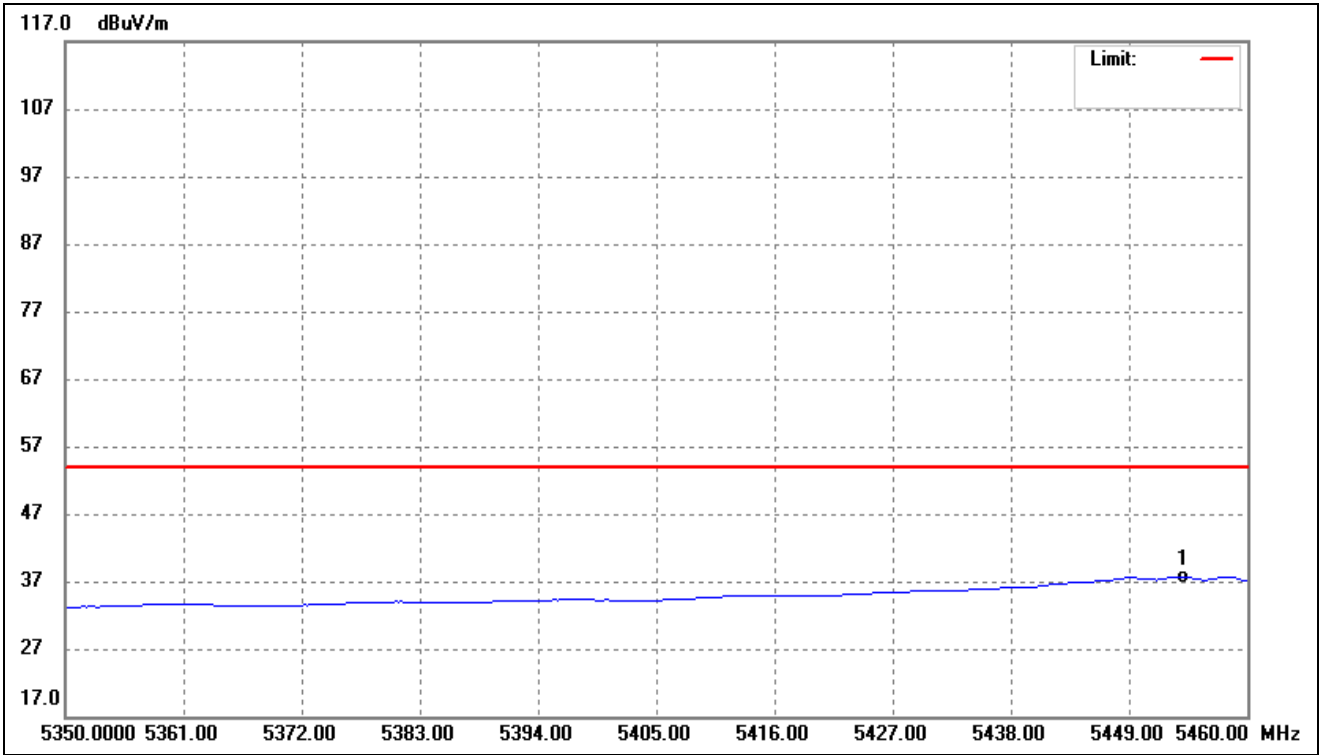
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5459.118	45.93	-10.13	35.80	54.00	-18.20	-	-	AVG

802.11ac-VHT80- 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	72.14	-10.13	62.01	74.00	-11.99	-	-	peak

802.11ac-VHT80- 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	5454.048	47.90	-10.16	37.74	54.00	-16.26	-	-	AVG

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

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

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

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5180MHz)							
10360	54.72	7.11	61.83	74	-12.17	H	PK
10360	37.78	7.11	44.89	54	-9.11	H	AV
10360	52.85	7.11	59.96	74	-14.04	V	PK
10360	39.27	7.11	46.38	54	-7.62	V	AV
Middle Channel (5200MHz)							
10400	54.82	7.22	62.04	74	-11.96	H	PK
10400	41.00	7.22	48.22	54	-5.78	H	AV
10400	55.35	7.22	62.57	74	-11.43	V	PK
10400	37.47	7.22	44.69	54	-9.31	V	AV
High Channel (5240MHz)							
10480	55.39	7.69	63.08	74	-10.92	H	PK
10480	40.38	7.69	48.07	54	-5.93	H	AV
10480	55.13	7.69	62.82	74	-11.18	V	PK
10480	39.23	7.69	46.92	54	-7.08	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5260MHz)							
10520	55.38	7.96	63.34	74	-10.66	H	PK
10520	39.21	7.96	47.17	54	-6.83	H	AV
10520	55.41	7.96	63.37	74	-10.63	V	PK
10520	39.43	7.96	47.39	54	-6.61	V	AV
Middle Channel (5280MHz)							
10560	55.39	8.02	63.41	74	-10.59	H	PK
10560	38.67	8.02	46.69	54	-7.31	H	AV
10560	52.35	8.02	60.37	74	-13.63	V	PK
10560	38.94	8.02	46.96	54	-7.04	V	AV
High Channel (5320MHz)							
10640	54.43	8.35	62.78	74	-11.22	H	PK
10640	40.36	8.35	48.71	54	-5.29	H	AV
10640	52.38	8.35	60.73	74	-13.27	V	PK
10640	40.54	8.35	48.89	54	-5.11	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5500MHz)							
11000	53.89	8.82	63.34	74	-10.66	H	PK
11000	39.73	8.82	49.18	54	-4.82	H	AV
11000	54.83	8.82	64.28	74	-9.72	V	PK
11000	38.09	8.82	47.54	54	-6.46	V	AV
Middle Channel (5600MHz)							
11200	54.59	8.92	63.51	74	-10.49	H	PK
11200	38.53	8.92	47.45	54	-6.55	H	AV
11200	55.80	8.92	64.72	74	-9.28	V	PK
11200	38.03	8.92	46.95	54	-7.05	V	AV
High Channel (5700MHz)							
11400	55.14	9.36	64.50	74	-9.50	H	PK
11400	37.50	9.36	46.86	54	-7.14	H	AV
11400	54.52	9.36	63.88	74	-10.12	V	PK
11400	36.05	9.36	45.41	54	-8.59	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5745MHz)							
11490	52.61	9.45	62.06	74	-11.94	H	PK
11490	39.80	9.45	49.25	54	-4.75	H	AV
11490	54.88	9.45	64.33	74	-9.67	V	PK
11490	38.24	9.45	47.69	54	-6.31	V	AV
Middle Channel (5785MHz)							
11570	53.77	9.62	63.39	74	-10.61	H	PK
11570	37.18	9.62	46.80	54	-7.20	H	AV
11570	52.16	9.62	61.78	74	-12.22	V	PK
11570	38.03	9.62	47.65	54	-6.35	V	AV
High Channel (5825MHz)							
11650	53.49	9.84	63.33	74	-10.67	H	PK
11650	35.59	9.84	45.43	54	-8.57	H	AV
11650	52.11	9.84	61.95	74	-12.05	V	PK
11650	37.69	9.84	47.53	54	-6.47	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-36.52	-27
Highest	Above 5350	-34.23	-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	-37.12	-27
Highest	Above 5350	-35.54	-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	-35.98	-27
Highest	Above 5725	-36.12	-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	-36.87	-27
	5650 to 5700	-34.25	-27 to -17
	5700 to 5720	-18.27	-17 to 15.6
	5720 to 5725	-6.68	15.6 to 27
Highest	5850 to 5855	-7.56	27 to 15.6
	5855 to 5875	-8.54	15.6 to -17
	5875 to 5925	-33.45	-17 to -27
	Above 5925	-37.12	-27
Note: the data just list the worst cases			

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11n HT20)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5180MHz)							
10360	55.68	7.11	62.79	74	-11.21	H	PK
10360	40.44	7.11	47.55	54	-6.45	H	AV
10360	52.28	7.11	59.39	74	-14.61	V	PK
10360	40.08	7.11	47.19	54	-6.81	V	AV
Middle Channel (5200MHz)							
10400	54.58	7.22	61.80	74	-12.20	H	PK
10400	39.25	7.22	46.47	54	-7.53	H	AV
10400	52.92	7.22	60.14	74	-13.86	V	PK
10400	38.95	7.22	46.17	54	-7.83	V	AV
High Channel (5240MHz)							
10480	55.23	7.69	62.92	74	-11.08	H	PK
10480	39.30	7.69	46.99	54	-7.01	H	AV
10480	52.90	7.69	60.59	74	-13.41	V	PK
10480	37.12	7.69	44.81	54	-9.19	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5260MHz)							
10520	52.76	7.96	60.72	74	-13.28	H	PK
10520	38.47	7.96	46.43	54	-7.57	H	AV
10520	54.28	7.96	62.24	74	-11.76	V	PK
10520	37.28	7.96	45.24	54	-8.76	V	AV
Middle Channel (5280MHz)							
10560	54.13	8.02	62.15	74	-11.85	H	PK
10560	40.07	8.02	48.09	54	-5.91	H	AV
10560	54.92	8.02	62.94	74	-11.06	V	PK
10560	37.89	8.02	45.91	54	-8.09	V	AV
High Channel (5320MHz)							
10640	56.35	8.35	64.70	74	-9.30	H	PK
10640	40.55	8.35	48.90	54	-5.10	H	AV
10640	52.15	8.35	60.50	74	-13.50	V	PK
10640	39.61	8.35	47.96	54	-6.04	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5500MHz)							
11000	53.16	8.82	61.98	74	-12.02	H	PK
11000	37.54	8.82	46.36	54	-7.64	H	AV
11000	52.42	8.82	61.24	74	-12.76	V	PK
11000	37.43	8.82	46.25	54	-7.75	V	AV
Middle Channel (5600MHz)							
11200	52.79	8.92	61.71	74	-12.29	H	PK
11200	38.08	8.92	47.00	54	-7.00	H	AV
11200	52.63	8.92	61.55	74	-12.45	V	PK
11200	38.08	8.92	47.00	54	-7.00	V	AV
High Channel (5700MHz)							
11400	53.76	9.84	63.60	74	-10.40	H	PK
11400	35.64	9.84	45.48	54	-8.52	H	AV
11400	52.70	9.84	62.54	74	-11.46	V	PK
11400	39.00	9.84	48.84	54	-5.16	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5745MHz)							
11490	54.76	9.45	64.21	74	-9.79	H	PK
11490	38.19	9.45	47.64	54	-6.36	H	AV
11490	55.07	9.45	64.52	74	-9.48	V	PK
11490	38.19	9.45	47.64	54	-6.36	V	AV
Middle Channel (5785MHz)							
11570	55.43	9.62	65.05	74	-8.95	H	PK
11570	40.16	9.62	49.78	54	-4.22	H	AV
11570	52.40	9.62	62.02	74	-11.98	V	PK
11570	37.97	9.62	47.59	54	-6.41	V	AV
High Channel (5825MHz)							
11650	52.52	9.84	62.36	74	-11.64	H	PK
11650	35.56	9.84	45.40	54	-8.60	H	AV
11650	54.36	9.84	64.20	74	-9.80	V	PK
11650	36.86	9.84	46.70	54	-7.30	V	AV

➤ Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-39.54	-27
Highest	Above 5350	-35.12	-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	-36.10	-27
Highest	Above 5350	-34.36	-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	-38.41	-27
Highest	Above 5725	-36.31	-27

Note: the data just list the worst cases

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5650	-41.25	-27
	5650 to 5700	-33.64	-27 to -17
	5700 to 5720	-25.15	-17 to 15.6
	5720 to 5725	-6.98	15.6 to 27
Highest	5850 to 5855	-4.28	27 to 15.6
	5855 to 5875	-21.25	15.6 to -17
	5875 to 5925	-34.25	-17 to -27
	Above 5925	-36.98	-27

Note: the data just list the worst cases

Note: this EUT was tested in the low, high channel and the worst case position data was reported.

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11n HT40)
- Harmonics And Spurious Emissions

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5190MHz)							
10380	57.06	7.89	64.95	74	-9.05	H	PK
10380	41.14	7.89	49.03	54	-4.97	H	AV
10380	53.53	7.89	61.42	74	-12.58	V	PK
10380	38.41	7.89	46.30	54	-7.70	V	AV
High Channel (5230MHz)							
10460	54.89	7.97	62.86	74	-11.14	H	PK
10460	40.91	7.97	48.88	54	-5.12	H	AV
10460	55.44	7.97	63.41	74	-10.59	V	PK
10460	37.72	7.97	45.69	54	-8.31	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5270MHz)							
10540	57.37	8.16	65.53	74	-8.47	H	PK
10540	37.77	8.16	45.93	54	-8.07	H	AV
10540	54.37	8.16	62.53	74	-11.47	V	PK
10540	36.60	8.16	44.76	54	-9.24	V	AV
High Channel (5310MHz)							
10620	56.42	8.57	64.99	74	-9.01	H	PK
10620	39.04	8.57	47.61	54	-6.39	H	AV
10620	53.87	8.57	62.44	74	-11.56	V	PK
10620	37.31	8.57	45.88	54	-8.12	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5510MHz)							
11020	55.52	9.16	64.68	74	-9.32	H	PK
11020	36.19	9.16	45.35	54	-8.65	H	AV
11020	52.46	9.16	61.62	74	-12.38	V	PK
11020	38.53	9.16	47.69	54	-6.31	V	AV
Middle Channel (5590MHz)							
11180	57.38	9.29	66.67	74	-7.33	H	PK
11180	38.28	9.29	47.57	54	-6.43	H	AV
11180	52.37	9.29	61.66	74	-12.34	V	PK
11180	38.85	9.29	48.14	54	-5.86	V	AV
High Channel (5670MHz)							
11340	54.93	9.43	64.36	74	-9.64	H	PK
11340	39.99	9.43	49.42	54	-4.58	H	AV
11340	53.24	9.43	62.67	74	-11.33	V	PK
11340	37.12	9.43	46.55	54	-7.45	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5755MHz)							
11510	56.20	9.45	65.65	74	-8.35	H	PK
11510	37.56	9.45	47.01	54	-6.99	H	AV
11510	54.26	9.45	63.71	74	-10.29	V	PK
11510	38.74	9.45	48.19	54	-5.81	V	AV
High Channel (5795MHz)							
11590	55.61	9.27	64.88	74	-9.12	H	PK
11590	39.17	9.27	48.44	54	-5.56	H	AV
11590	53.78	9.27	63.05	74	-10.95	V	PK
11590	36.74	9.27	46.01	54	-7.99	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-36.98	-27
Highest	Above 5350	-37.12	-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	-39.65	-27
Highest	Above 5350	-40.12	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-37.36	-27
Highest	Above 5725	-35.69	-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	-36.32	-27
	5650 to 5700	-36.12	-27 to -17
	5700 to 5720	-21.15	-17 to 15.6
	5720 to 5725	-4.98	15.6 to 27
Highest	5850 to 5855	-5.69	27 to 15.6
	5855 to 5875	-21.02	15.6 to -17
	5875 to 5925	-32.45	-17 to -27
	Above 5925	-33.69	-27
Note: the data just list the worst cases			

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

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
5210MHz							
10420	56.95	7.53	64.48	74	-9.52	56.95	PK
10420	39.74	7.53	47.27	54	-6.73	39.74	AV
10420	54.89	7.53	62.42	74	-11.58	54.89	PK
10420	39.12	7.53	46.65	54	-7.35	39.12	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
5290MHz							
10580	56.57	7.95	64.52	74	-9.48	H	PK
10580	36.78	7.95	44.73	54	-9.27	H	AV
10580	54.51	7.95	62.46	74	-11.54	V	PK
10580	36.90	7.95	44.85	54	-9.15	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel (5530MHz)							
11060	57.31	9.42	66.73	74	-7.27	H	PK
11060	36.30	9.42	45.72	54	-8.28	H	AV
11060	54.51	9.42	63.93	74	-10.07	V	PK
11060	37.77	9.42	47.19	54	-6.81	V	AV
High Channel (5610MHz)							
11220	53.56	9.69	63.25	74	-10.75	53.56	9.69
11220	39.74	9.69	49.43	54	-4.57	39.74	9.69
11220	53.28	9.69	62.97	74	-11.03	53.28	9.69
11220	39.80	9.69	49.49	54	-4.51	39.80	9.69

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
5775MHz							
11550	56.77	9.93	66.70	74	-7.30	H	PK
11550	38.14	9.93	48.07	54	-5.93	H	AV
11550	55.81	9.93	65.74	74	-8.26	V	PK
11550	39.76	9.93	49.69	54	-4.31	V	AV

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-39.42	-27
Highest	Above 5350	-38.13	-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	-36.98	-27
Highest	Above 5350	-38.12	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-37.12	-27
Highest	Above 5725	-36.65	-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	-36.24	-27
	5650 to 5700	-37.12	-27 to -17
	5700 to 5720	-26.32	-17 to 15.6
	5720 to 5725	-4.28	15.6 to 27
Highest	5850 to 5855	-7.25	27 to 15.6
	5855 to 5875	-22.35	15.6 to -17
	5875 to 5925	-35.65	-17 to -27
	Above 5925	-34.18	-27
Note: the data just list the worst cases			

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

9. Frequency Stability

9.1 Standard Applicable

According to §15.407(g), manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

9.2 Test Procedure

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

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

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

9.3 Summary of Test Results/Plots

Please refer to Appendix D

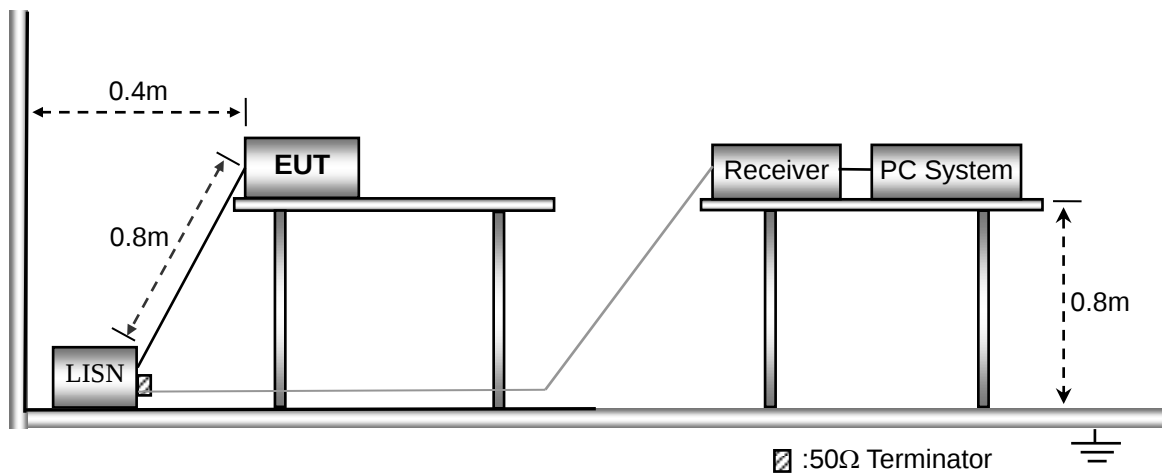
10. Conducted Emissions

10.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

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

10.2 Basic Test Setup Block Diagram



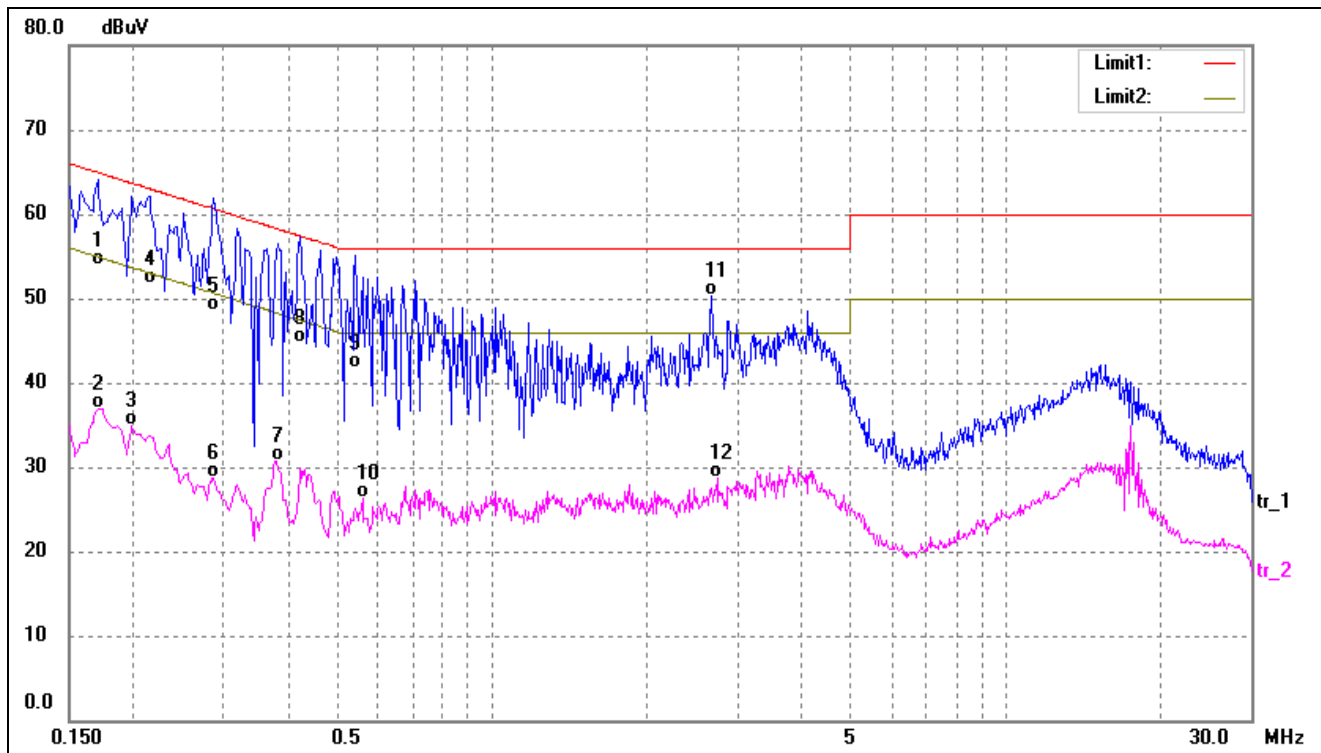
10.3 Test Receiver Setup

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

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

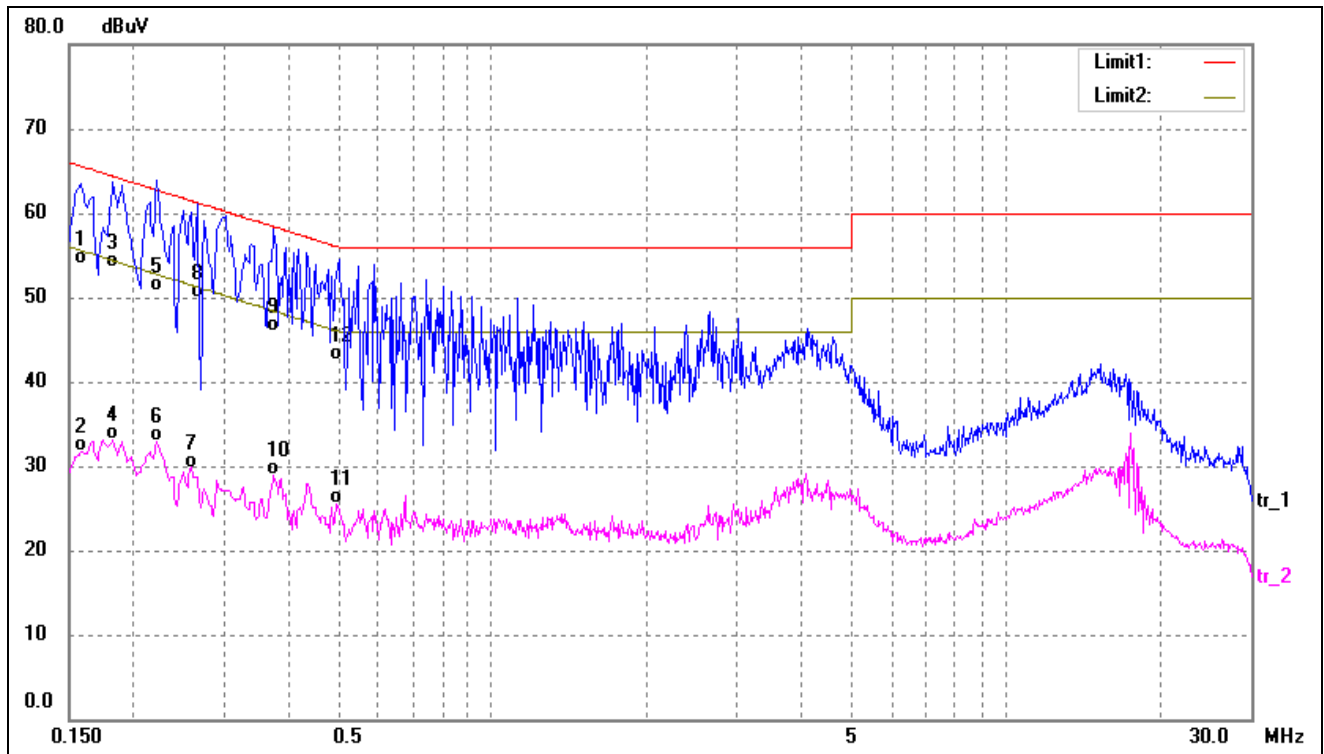
10.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1700	43.52	10.40	53.92	64.96	-11.04	QP
2	0.1700	26.52	10.40	36.92	54.96	-18.04	AVG
3	0.1980	24.43	10.39	34.82	53.69	-18.87	AVG
4	0.2140	41.41	10.38	51.79	63.04	-11.25	QP
5	0.2860	38.26	10.31	48.57	60.64	-12.07	QP
6	0.2860	18.46	10.31	28.77	50.64	-21.87	AVG
7	0.3780	20.51	10.27	30.78	48.32	-17.54	AVG
8	0.4220	34.40	10.26	44.66	57.41	-12.75	QP
9	0.5420	31.51	10.23	41.74	56.00	-14.26	QP
10	0.5580	16.11	10.22	26.33	46.00	-19.67	AVG
11*	2.6740	39.90	10.34	50.24	56.00	-5.76	QP
12	2.7460	18.30	10.34	28.64	46.00	-17.36	AVG

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	43.45	10.40	53.85	65.56	-11.71	QP
2	0.1580	21.21	10.40	31.61	55.56	-23.95	AVG
3*	0.1819	43.06	10.39	53.45	64.39	-10.94	QP
4	0.1819	22.69	10.39	33.08	54.39	-21.31	AVG
5	0.2220	40.39	10.37	50.76	62.74	-11.98	QP
6	0.2220	22.44	10.37	32.81	52.74	-19.93	AVG
7	0.2580	19.46	10.34	29.80	51.49	-21.69	AVG
8	0.2660	39.51	10.33	49.84	61.24	-11.40	QP
9	0.3740	35.72	10.27	45.99	58.41	-12.42	QP
10	0.3740	18.66	10.27	28.93	48.41	-19.48	AVG
11	0.4980	15.21	10.23	25.44	46.03	-20.59	AVG
12	0.5020	32.30	10.23	42.53	56.00	-13.47	QP

APPENDIX SUMMARY

Project No.	WTX23X05101641W	Test Engineer	BAldi Zhong
Start date	2023/9/1	Finish date	2023/9/11
Temperature	23℃	Humidity	46%
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

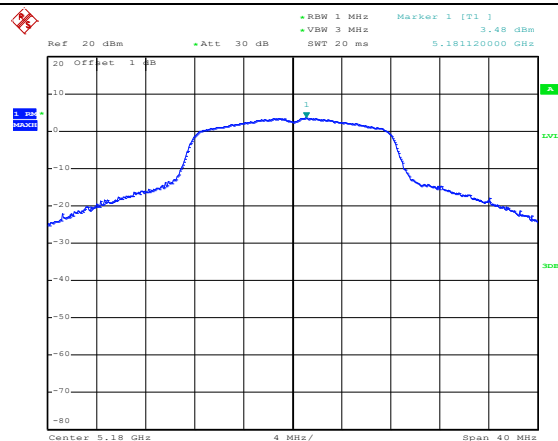
Power Spectral Density			
U-NII-1:5150-5250MHz			
Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5180	3.48	11
	5200	3.96	11
	5240	4.79	11
802.11n-HT20	5180	2.12	11
	5200	2.54	11
	5240	4.25	11
802.11ac-VHT20	5180	2.24	11
	5200	2.41	11
	5240	3.02	11
802.11n-HT40	5190	-1.10	11
	5230	-0.58	11
802.11ac-VHT40	5190	-1.38	11
	5230	-0.50	11
802.11ac-VHT80	5210	-3.82	11

U-NII-2A: 5250-5350MHz			
Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5260	3.14	11
	5280	3.39	11
	5320	3.13	11
802.11n-HT20	5260	2.64	11
	5280	3.17	11
	5320	3.03	11
802.11ac-VHT20	5260	1.67	11
	5280	2.33	11
	5320	2.28	11
802.11n-HT40	5270	-0.85	11
	5310	-0.58	11
802.11ac-VHT40	5270	-0.72	11
	5310	-0.71	11
802.11ac-VHT80	5290	-4.25	11

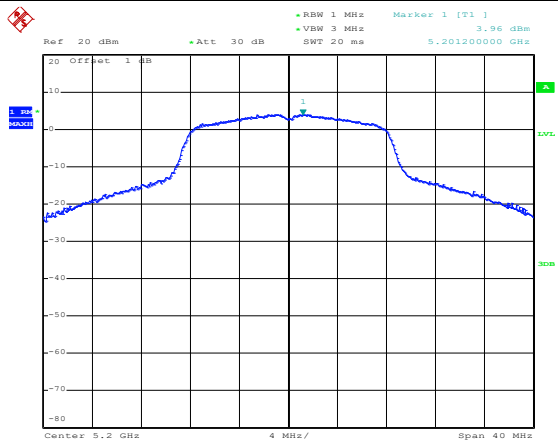
U-NII-2C: 5470-5725MHz			
Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5500	2.62	11
	5580	1.98	11
	5700	0.30	11
802.11n-HT20	5500	2.24	11
	5580	0.72	11
	5700	0.03	11
802.11n-HT20	5500	2.20	11
	5580	0.84	11
	5700	-1.11	11
802.11n-HT40	5510	-0.61	11
	5590	-1.62	11
	5670	-2.84	11
802.11n-HT40	5510	-1.94	11
	5590	-2.47	11
	5670	-3.96	11
802.11ac-VHT80	5530	-6.33	11
	5610	-6.12	11

Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit dBm/500kHz
802.11a	5745	1.08	30
	5785	0.99	30
	5825	0.85	30
802.11n-HT20	5745	1.10	30
	5785	0.83	30
	5825	0.95	30
802.11ac-VHT20	5745	0.65	30
	5785	-0.22	30
	5825	-0.32	30
802.11n-HT40	5755	-2.46	30
	5795	-1.88	30
802.11ac-VHT40	5755	-2.18	30
	5795	-2.09	30
802.11ac-VHT80	5775	-5.69	30

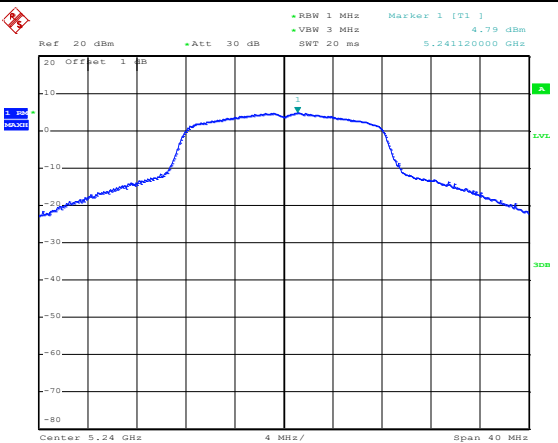
5150-5250MHz



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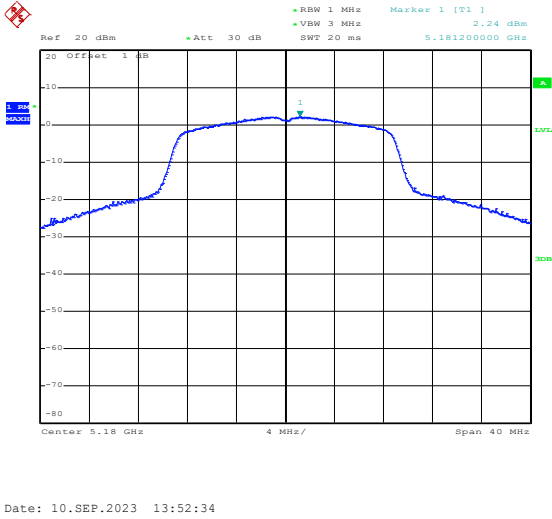
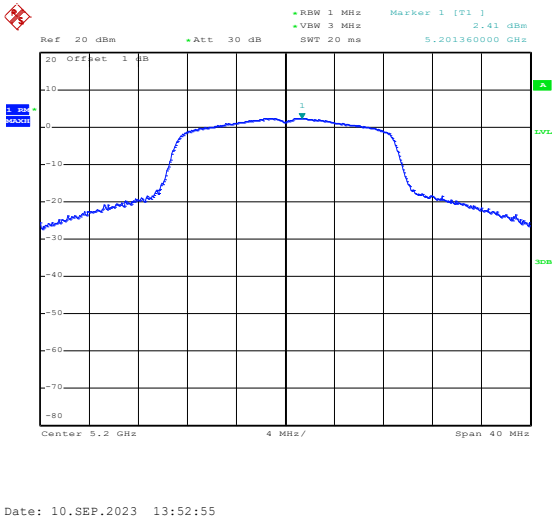
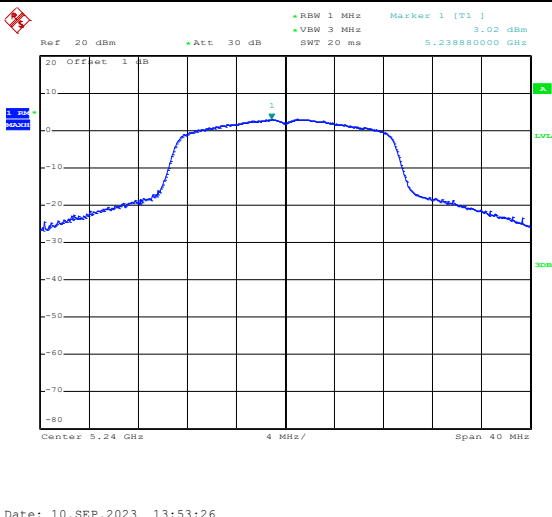


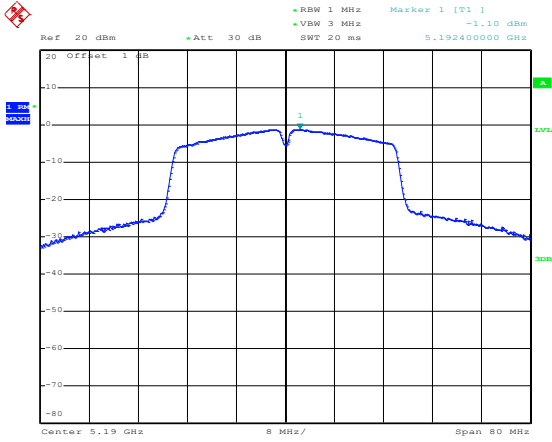
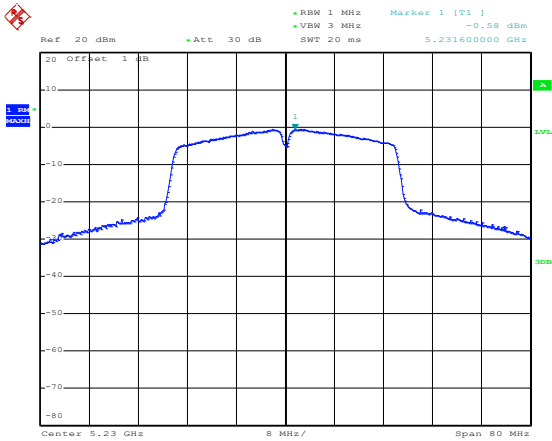
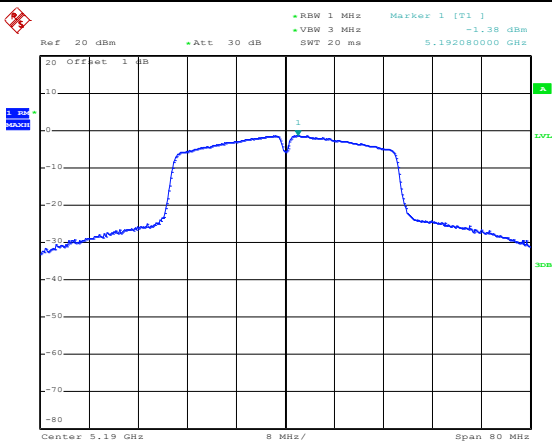
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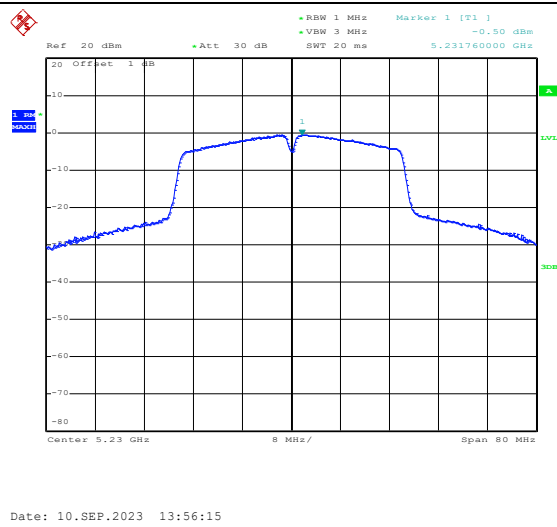
Date: 10.SEP.2023 13:50:47

802.11n-HT20-Low	Date: 10.SEP.2023 13:51:08
802.11n-HT20-Middle	Date: 10.SEP.2023 13:51:28
802.11N-HT20-High	Date: 10.SEP.2023 13:52:02

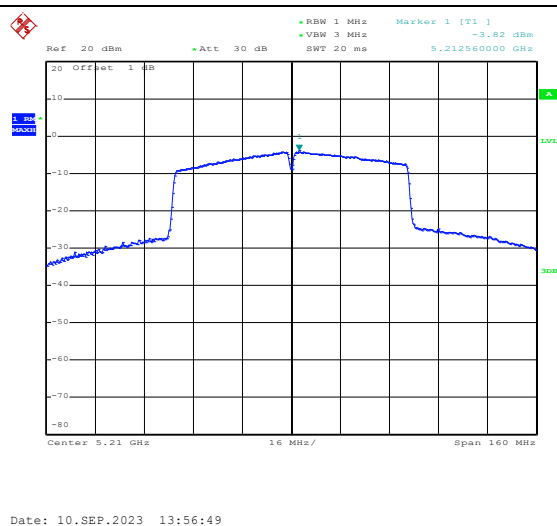
802.11ac-VHT20-Low	 Date: 10.SEP.2023 13:52:34
802.11ac-VHT20-Middle	 Date: 10.SEP.2023 13:52:55
802.11ac-VHT20-High	 Date: 10.SEP.2023 13:53:26

802.11n-HT40-Low	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [F1] -1.10 dBm VSW 3 MHz SWT 20 ms 5.192400000 GHz 20 Offset 1 dB Center 5.19 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 13:54:04
802.11n-HT40-High	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [F1] -0.58 dBm VSW 3 MHz SWT 20 ms 5.231600000 GHz 20 Offset 1 dB Center 5.23 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 13:55:00
802.11ac-VHT40-Low	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [F1] -1.38 dBm VSW 3 MHz SWT 20 ms 5.192080000 GHz 20 Offset 1 dB Center 5.19 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 13:55:36

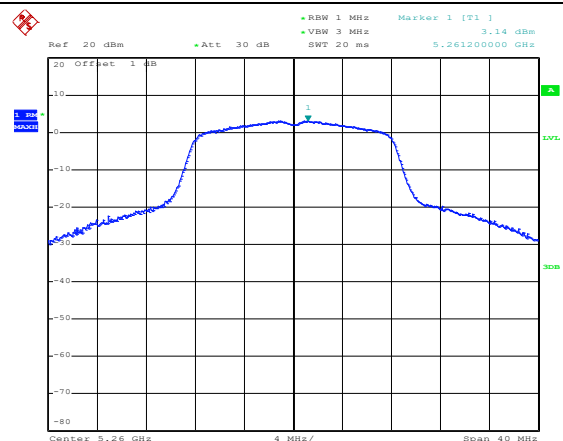
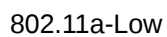
802.11ac-VHT40-High



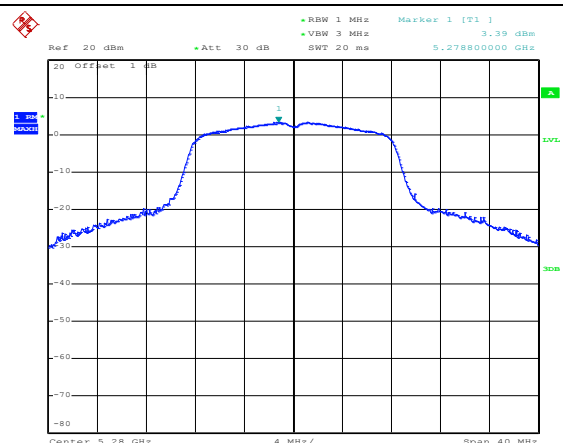
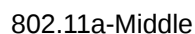
802.11ac-VHT80-Low



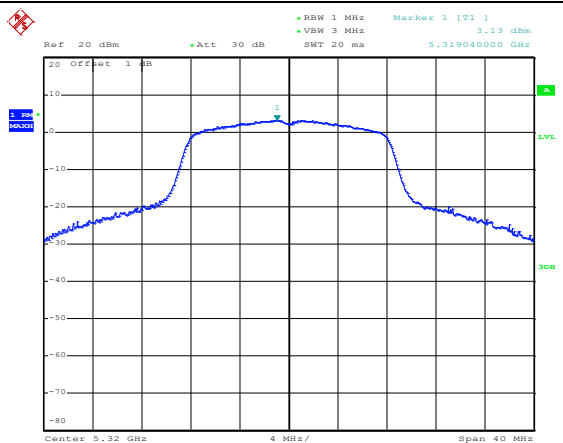
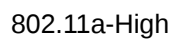
5250-5350MHz



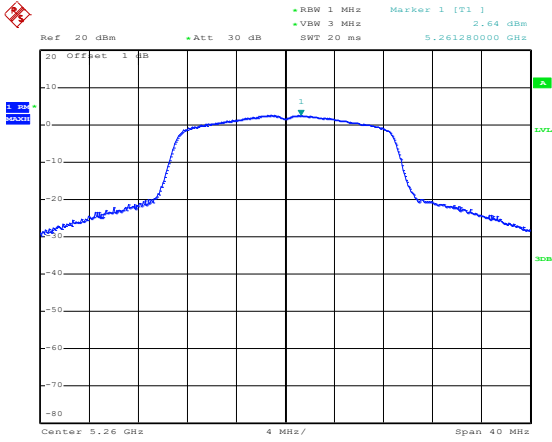
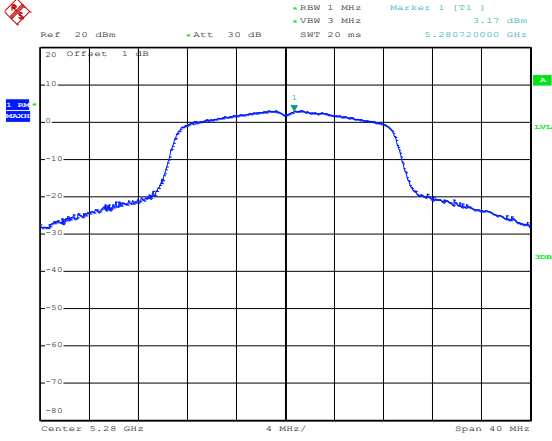
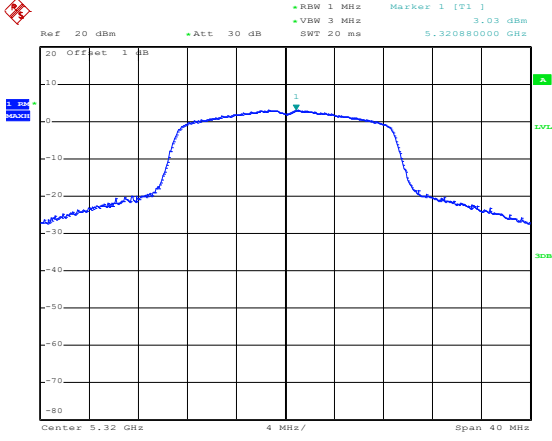
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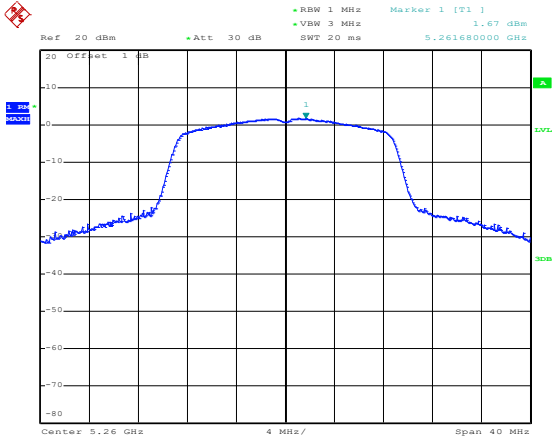
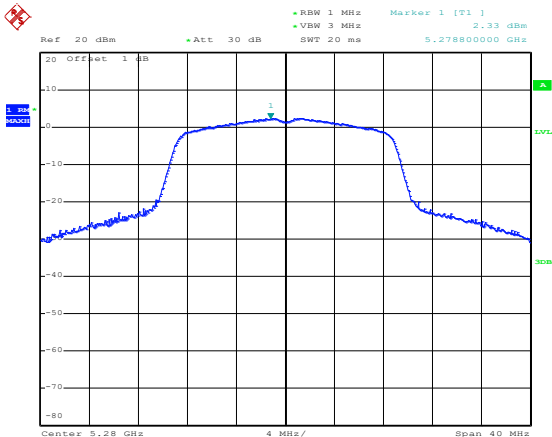
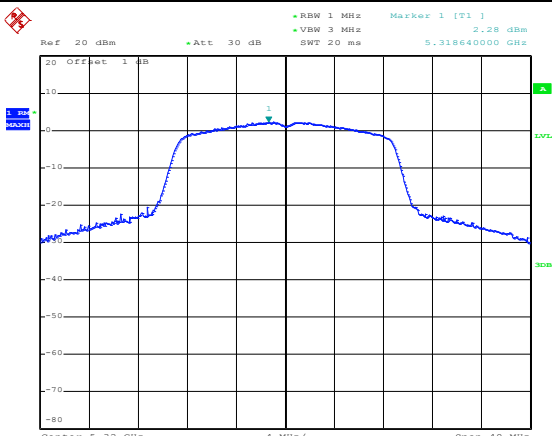


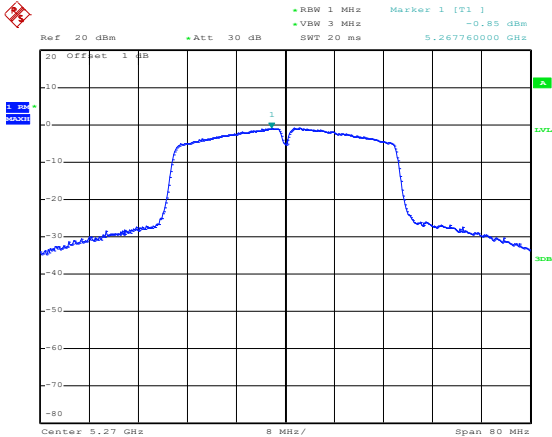
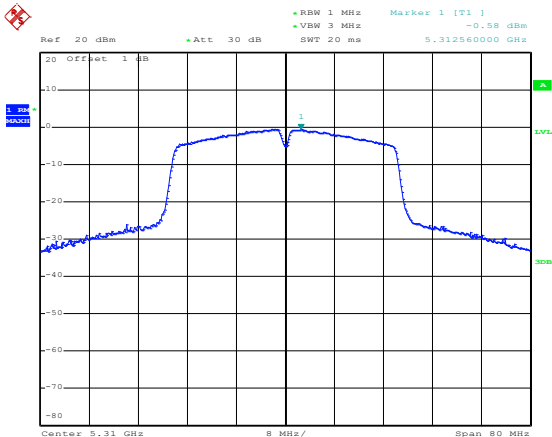
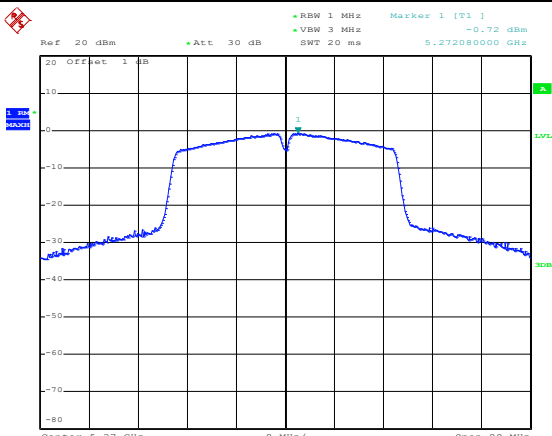
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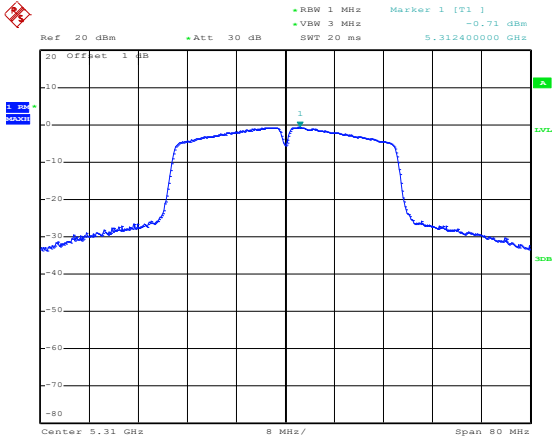
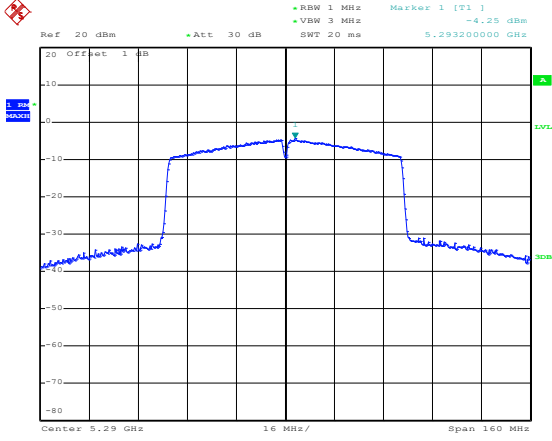


Date: 10.SEP.2023 14:34:18

802.11n-HT20-Low	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] 2.64 dBm VSW 3 MHz SWT 20 ms 5.261280000 GHz Center 5.26 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:34:44
802.11n-HT20-Middle	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] 3.17 dBm VSW 3 MHz SWT 20 ms 5.280720000 GHz Center 5.28 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:35:11
802.11n-HT20-High	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] 3.03 dBm VSW 3 MHz SWT 20 ms 5.320880000 GHz Center 5.32 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:35:33

802.11ac-VHT20-Low	 Date: 10.SEP.2023 14:35:54
802.11ac-VHT20-Middle	 Date: 10.SEP.2023 14:36:41
802.11ac-VHT20-High	 Date: 10.SEP.2023 14:37:06

802.11n-HT40-Low	 Date: 10.SEP.2023 14:37:34
802.11n-HT40-High	 Date: 10.SEP.2023 14:37:53
802.11ac-VHT40-Low	 Date: 10.SEP.2023 14:38:17

802.11ac-VHT40-High	 Date: 10.SEP.2023 14:38:31
802.11ac-VHT80-Low	 Date: 10.SEP.2023 14:38:53

5470-5725MHz

802.11a-Low

Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] 2.62 dBm
VBW 3 MHz
SWT 20 ms 5.499200000 GHz

20 Offset 1 dB

1 dBm

1

10

0

-10

-20

-30

-40

-50

-60

-70

-80

Center 5.5 GHz 4 MHz/ Span 40 MHz

1A

1V1

30B

Date: 10.SEP.2023 15:13:14

802.11a-Middle

Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] 1.98 dBm
VBW 3 MHz
SWT 20 ms 5.599200000 GHz

20 Offset 1 dB

1 dBm

1

10

0

-10

-20

-30

-40

-50

-60

-70

-80

Center 5.6 GHz 4 MHz/ Span 40 MHz

1A

1V1

30B

Date: 10.SEP.2023 15:13:45

802.11a-High

Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] 0.30 dBm
VBW 3 MHz
SWT 20 ms 5.701120000 GHz

20 Offset 1 dB

1 dBm

1

10

0

-10

-20

-30

-40

-50

-60

-70

-80

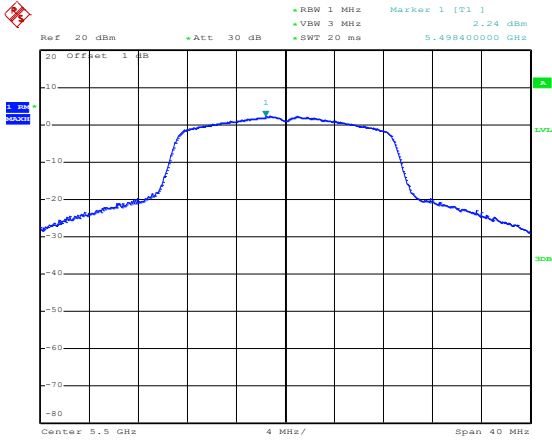
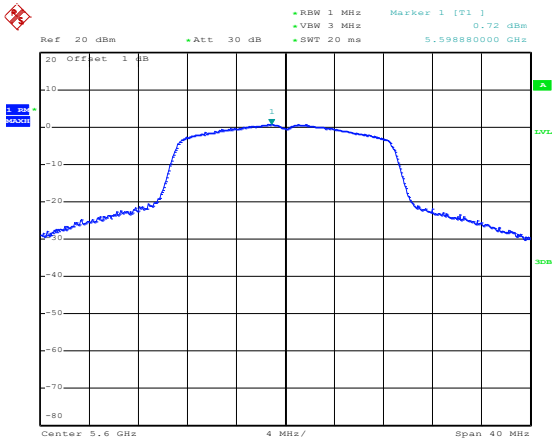
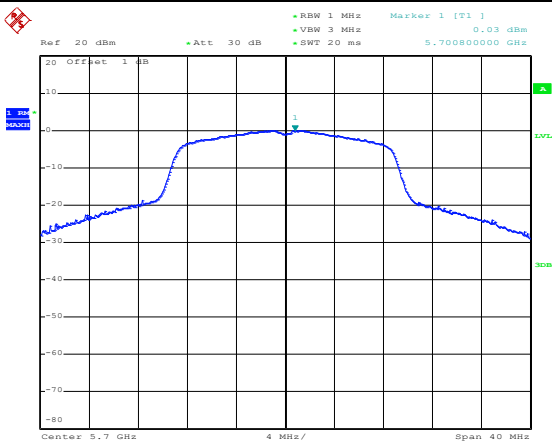
Center 5.7 GHz 4 MHz/ Span 40 MHz

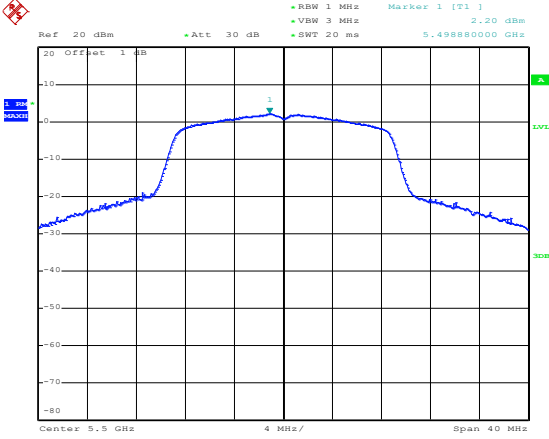
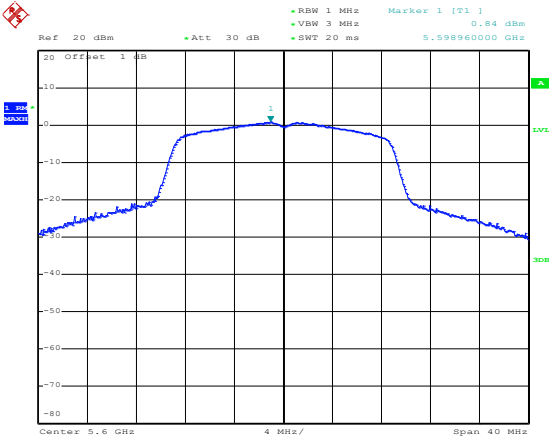
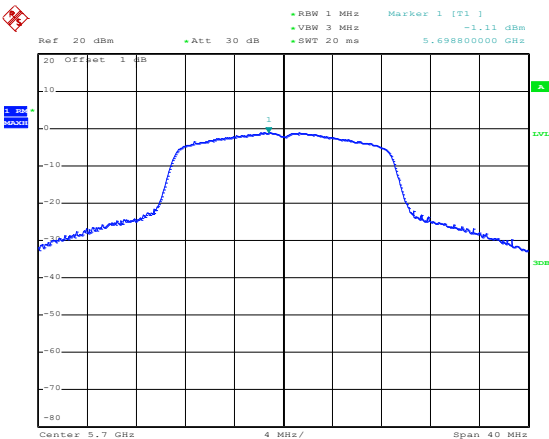
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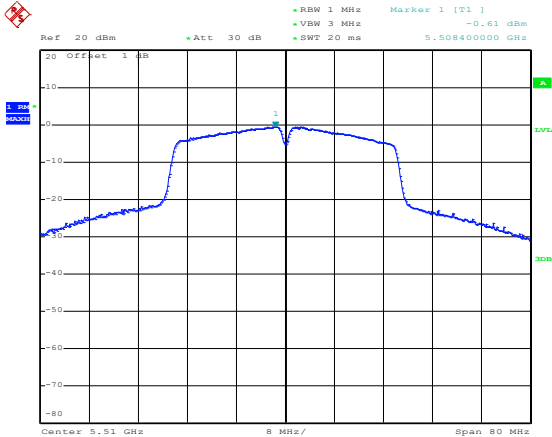
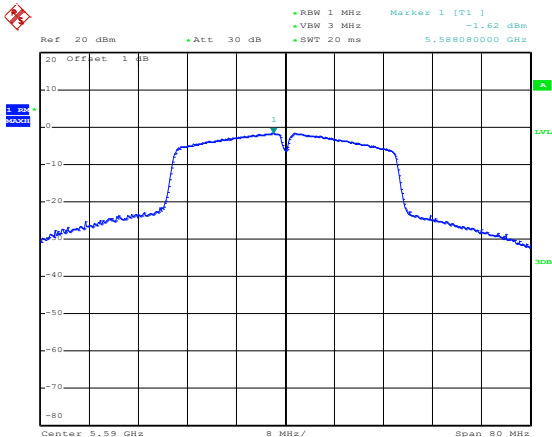
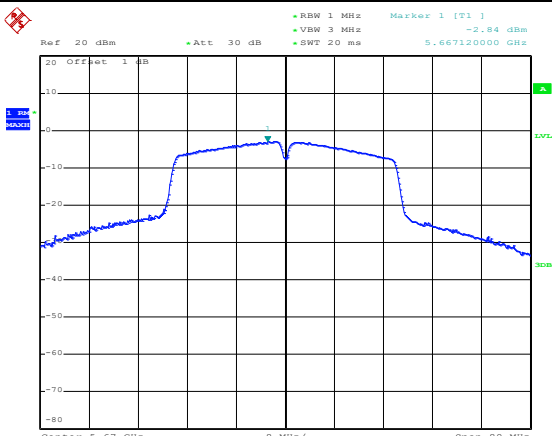
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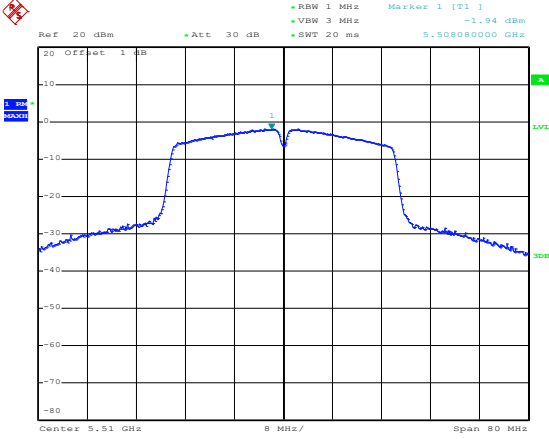
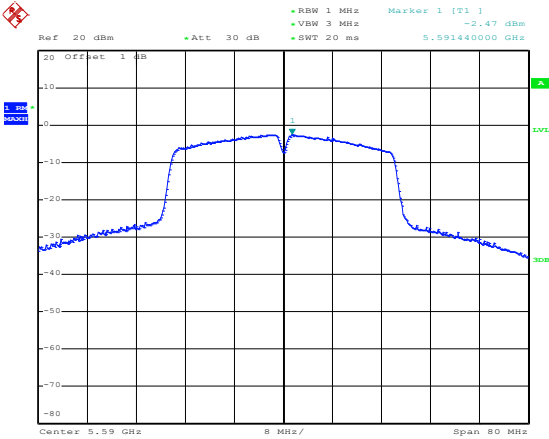
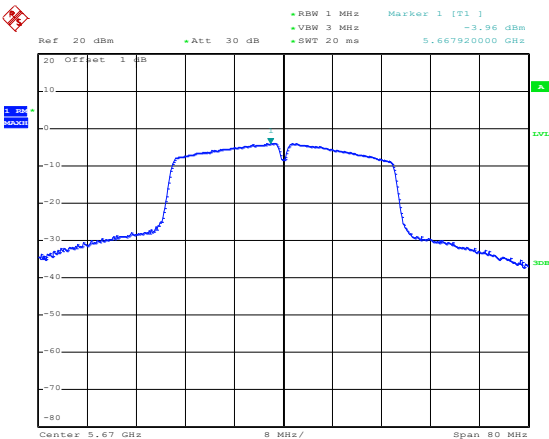
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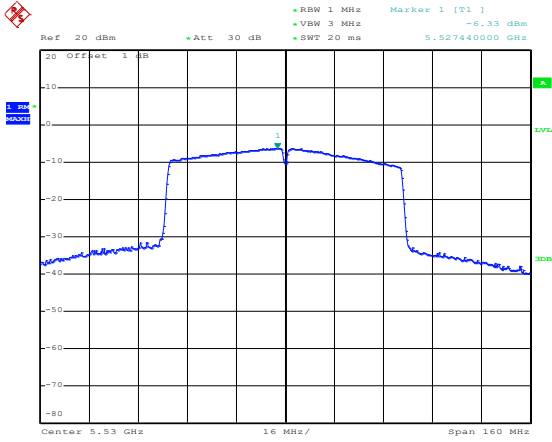
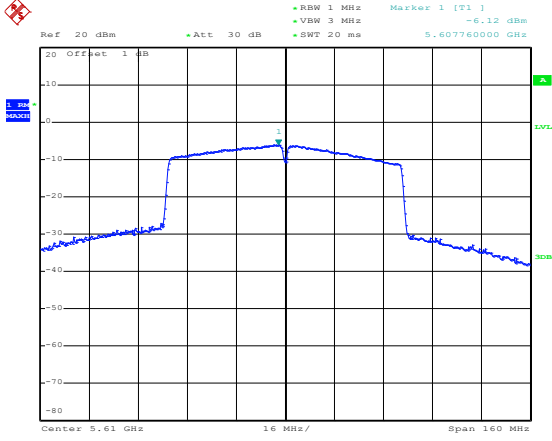
Date: 10.SEP.2023 15:13:59

802.11n-HT20-Low	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] 2.24 dBm VSW 3 MHz SWT 20 ms 5.498400000 GHz Center 5.5 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 15:14:30
802.11n-HT20-Middle	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] 0.72 dBm VSW 3 MHz SWT 20 ms 5.598880000 GHz Center 5.6 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 15:14:55
802.11n-HT20-High	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] 0.03 dBm VSW 3 MHz SWT 20 ms 5.700800000 GHz Center 5.7 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 15:17:19

802.11ac-VHT20-Low	 Date: 10.SEP.2023 15:17:59
802.11ac-VHT20-Middle	 Date: 10.SEP.2023 15:18:13
802.11ac-VHT20-High	 Date: 10.SEP.2023 15:18:36

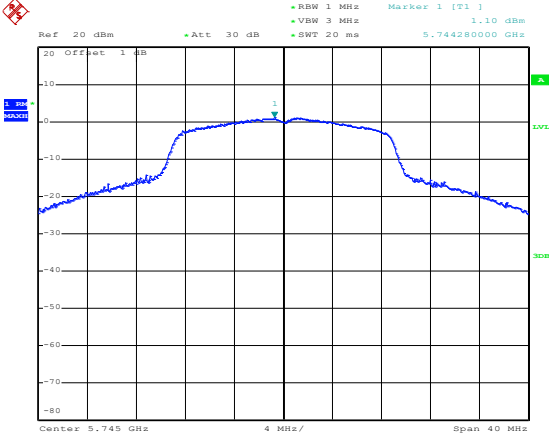
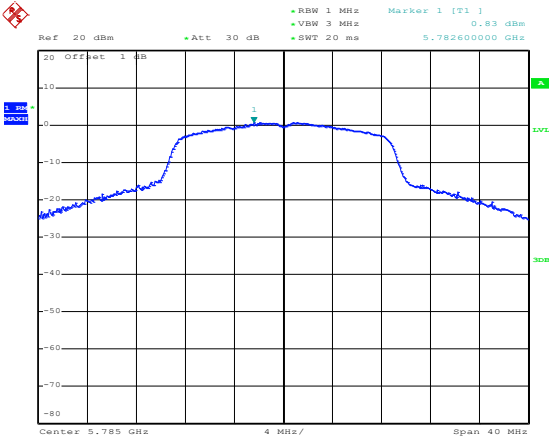
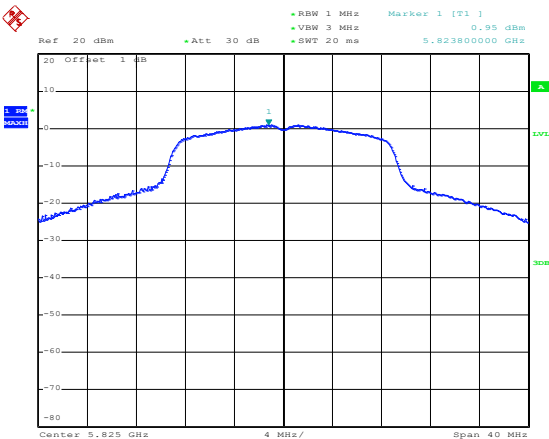
802.11n-HT40-Low	 Ref 20 dBm • Att 30 dB • RBW 1 MHz Marker 1 [T1] -0.61 dBm • VSW 3 MHz • SWT 20 ms 5.50840000 GHz 20 Offset 1 dB Center 5.51 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 15:18:57
802.11n-HT40- Middle	 Ref 20 dBm • Att 30 dB • RBW 1 MHz Marker 1 [T1] -1.62 dBm • VSW 3 MHz • SWT 20 ms 5.58808000 GHz 20 Offset 1 dB Center 5.59 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 15:19:22
802.11n-HT40-High	 Ref 20 dBm • Att 30 dB • RBW 1 MHz Marker 1 [T1] -2.84 dBm • VSW 3 MHz • SWT 20 ms 5.66712000 GHz 20 Offset 1 dB Center 5.67 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 15:19:34

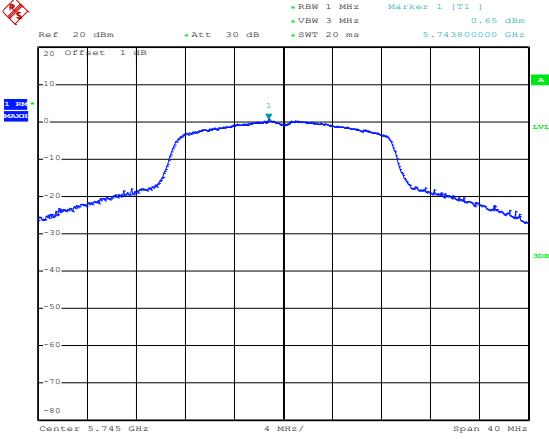
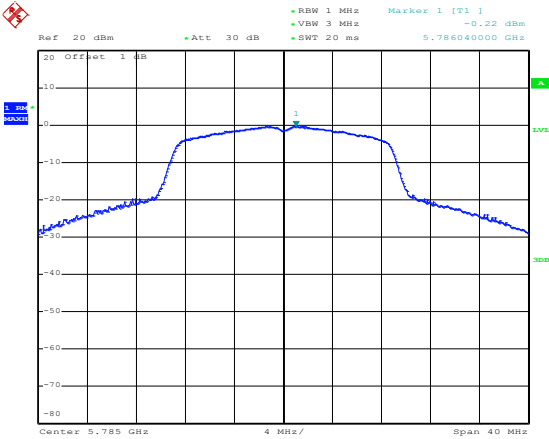
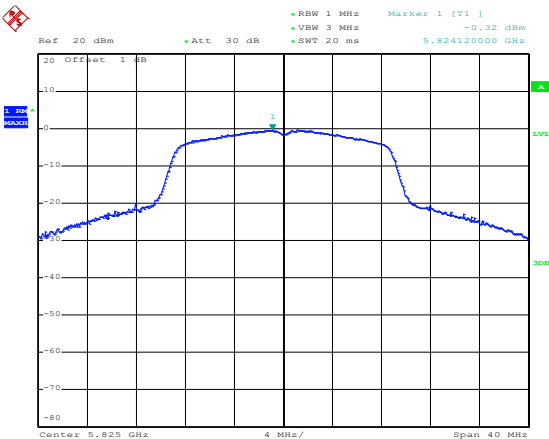
802.11ac-VHT40-Low	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [F1] -1.94 dBm VSW 3 MHz SWT 20 ms 5.50800000 GHz Center 5.51 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 15:19:54
802.11ac-VHT40-Middle	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [F1] -2.47 dBm VSW 3 MHz SWT 20 ms 5.59144000 GHz Center 5.59 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 15:20:18
802.11ac-VHT40-High	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [F1] -3.96 dBm VSW 3 MHz SWT 20 ms 5.66792000 GHz Center 5.67 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 15:20:53

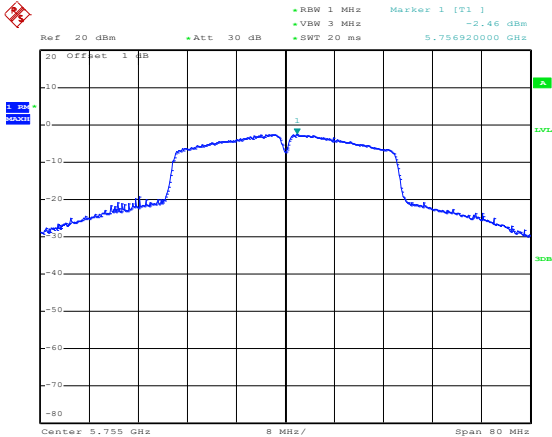
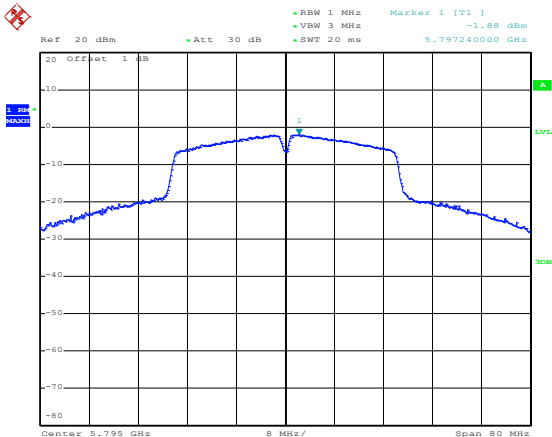
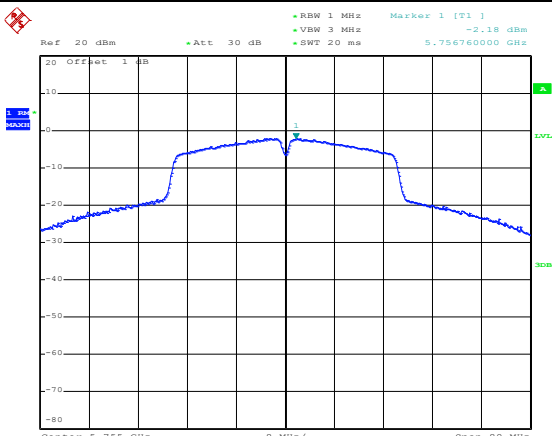
802.11ac-VHT80-Low	 Date: 10.SEP.2023 15:21:21
802.11ac-VHT80-High	 Date: 10.SEP.2023 15:21:34

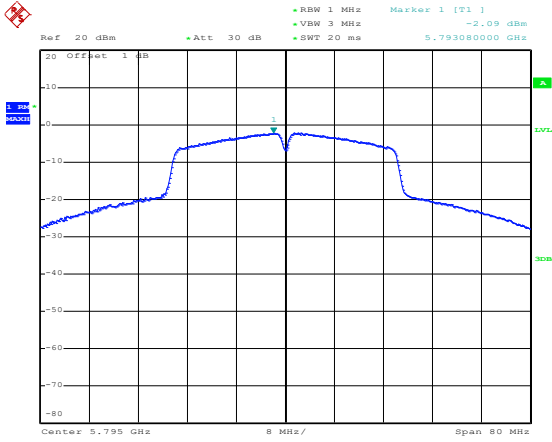
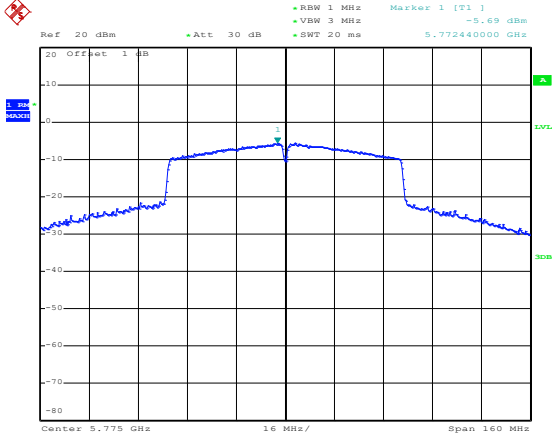
5725-5850MHz

802.11a-Low	RBW 1 MHz VBW 3 MHz SWT 20 ms Ref 20 dBm Att 30 dB Marker 1 [T1] 1.08 dBm 5.74580000 GHz Center 5.745 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 16:15:48
802.11a-Middle	RBW 1 MHz VBW 3 MHz SWT 20 ms Ref 20 dBm Att 30 dB Marker 1 [T1] 0.99 dBm 5.78596000 GHz Center 5.785 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 16:16:03
802.11a-High	RBW 1 MHz VBW 3 MHz SWT 20 ms Ref 20 dBm Att 30 dB Marker 1 [T1] 0.85 dBm 5.82412000 GHz Center 5.825 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 16:16:17

802.11n-HT20-Low	 Date: 10.SEP.2023 16:16:57
802.11n-HT20-Middle	 Date: 10.SEP.2023 16:17:09
802.11n-HT20-High	 Date: 10.SEP.2023 16:17:44

802.11ac-VHT20-Low	 Date: 10.SEP.2023 16:18:02
802.11ac-VHT20-Middle	 Date: 10.SEP.2023 16:18:28
802.11ac-VHT20-High	 Date: 10.SEP.2023 16:18:51

802.11n-HT40-Low	 Date: 10.SEP.2023 16:19:25
802.11n-HT40-High	 Date: 10.SEP.2023 16:19:36
802.11ac-VHT40-Low	 Date: 10.SEP.2023 16:21:38

802.11ac-VHT40-High	 Date: 10.SEP.2023 16:22:43
802.11ac-VHT80-Low	 Date: 10.SEP.2023 16:15:18

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	20.30	17.20	Pass
	5200	20.60	17.44	Pass
	5240	20.50	17.36	Pass
802.11n-HT20	5180	20.80	18.16	Pass
	5200	21.80	18.16	Pass
	5240	21.00	18.16	Pass
802.11ac-VHT20	5180	22.00	18.00	Pass
	5200	20.90	18.08	Pass
	5240	20.70	18.16	Pass
802.11n-HT40	5190	40.60	36.96	Pass
	5230	40.60	37.12	Pass
802.11ac-VHT40	5190	40.40	36.96	Pass
	5230	40.60	36.80	Pass
802.11ac-VHT80	5210	81.72	76.16	Pass

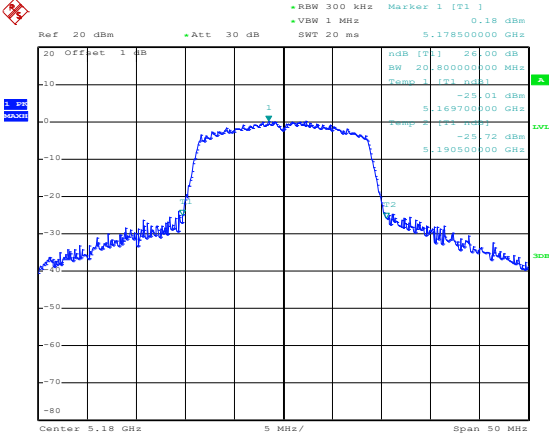
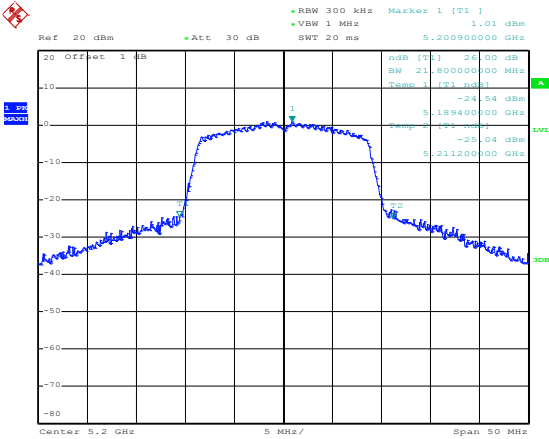
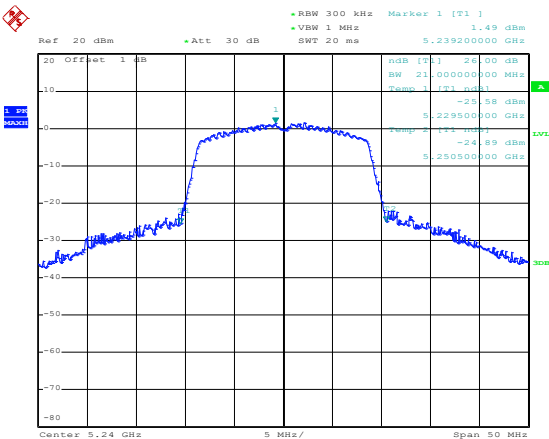
U-NII-2A: 5250-5350MHz				
Test Mode	Test Channel MHz	26 dB Bandwidth MHz	99% Bandwidth MHz	Limit MHz
802.11a	5260	22.40	17.52	Pass
	5280	22.50	17.68	Pass
	5320	26.30	17.76	Pass
802.11n-HT20	5260	23.80	18.32	Pass
	5280	24.30	18.48	Pass
	5320	24.90	18.40	Pass
802.11ac-VHT20	5260	21.30	18.16	Pass
	5280	20.70	18.08	Pass
	5320	21.90	18.24	Pass
802.11n-HT40	5270	40.00	36.96	Pass
	5310	40.60	36.80	Pass
802.11ac-VHT40	5270	40.80	36.80	Pass
	5310	40.60	36.96	Pass
802.11ac-VHT80	5290	82.08	75.84	Pass

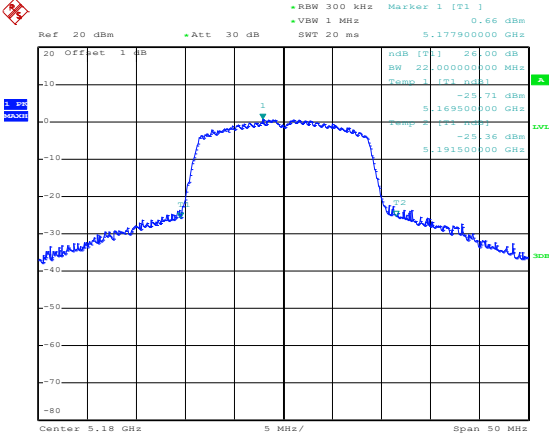
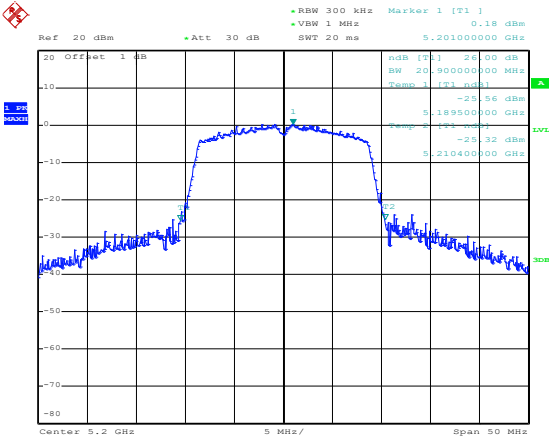
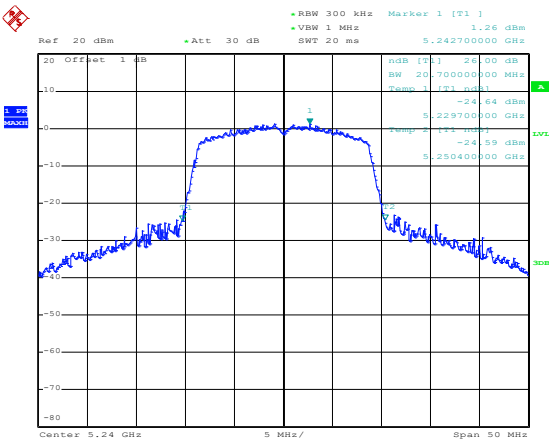
U-NII-2C: 5470-5725MHz				
Test Mode	Test Channel MHz	26 dB Bandwidth MHz	99% Bandwidth MHz	Limit MHz
802.11a	5500	26.90	17.52	Pass
	5600	24.30	17.68	Pass
	5700	21.00	17.84	Pass
802.11n-HT20	5500	25.00	18.16	Pass
	5580	22.70	18.32	Pass
	5700	24.20	18.16	Pass
802.11ac-VHT20	5500	20.90	18.16	Pass
	5600	20.90	18.16	Pass
	5700	21.20	18.16	Pass
802.11n-HT40	5510	42.00	37.92	Pass
	5590	43.00	37.44	Pass
	5670	43.80	37.60	Pass
802.11ac-VHT40	5510	40.40	37.12	Pass
	5590	40.80	37.12	Pass
	5670	40.60	37.12	Pass
802.11ac-VHT80	5530	81.36	76.16	Pass
	5610	82.08	76.16	Pass

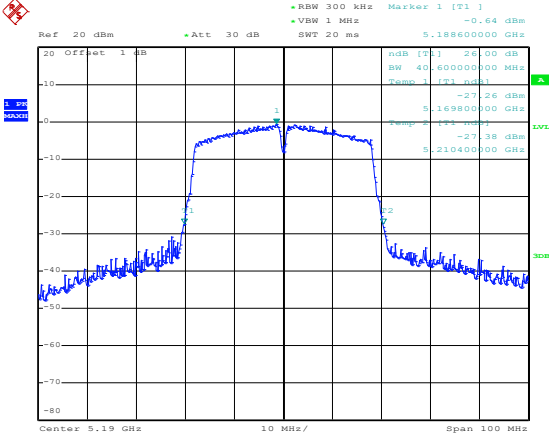
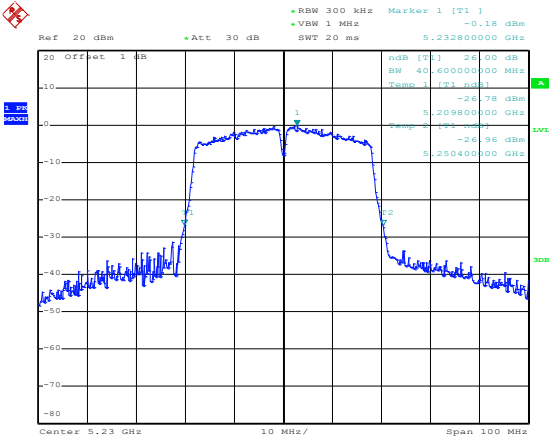
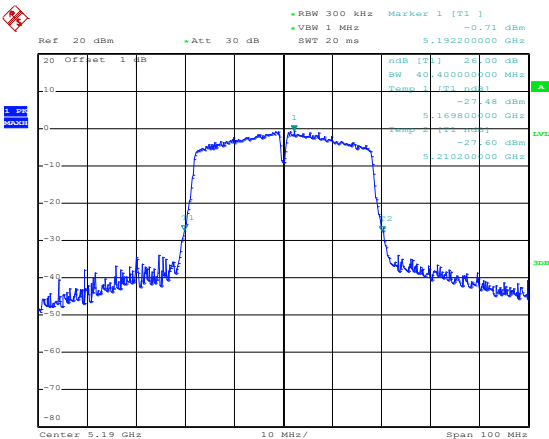
U-NII-3: 5725-5850MHz				
Test Mode	Test Channel MHz	6 dB Bandwidth MHz	99% Bandwidth MHz	Limit MHz
802.11a	5745	16.48	17.36	≥500
	5785	16.48	17.12	≥500
	5825	16.56	17.28	≥500
802.11n-HT20	5745	17.76	18.40	≥500
	5785	17.76	18.24	≥500
	5825	17.76	18.16	≥500
802.11ac-VHT20	5745	17.76	17.92	≥500
	5785	17.76	17.84	≥500
	5825	17.76	17.92	≥500
802.11n-HT40	5755	36.80	36.80	≥500
	5795	36.64	36.96	≥500
802.11ac-VHT40	5755	36.80	36.96	≥500
	5795	36.80	37.12	≥500
802.11ac-VHT80	5775	76.80	76.16	≥500

26 dB Bandwidth MHz
5150-5250MHz

802.11a-Low	Date: 10.SEP.2023 14:08:46
802.11a-Middle	Date: 10.SEP.2023 14:09:09
802.11a-High	Date: 10.SEP.2023 14:09:27

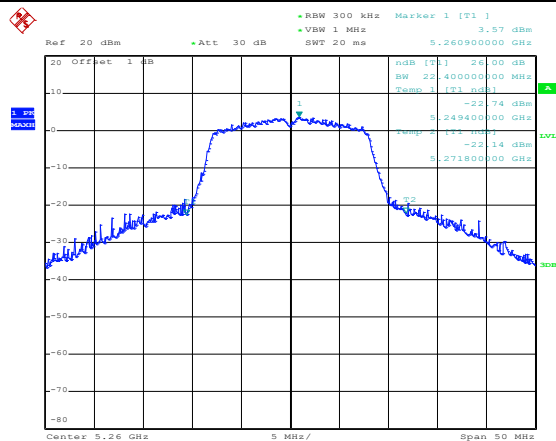
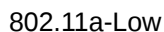
802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 0.18 dBm •VSW 1 MHz SWT 20 ms 5.178500000 GHz ndB [T1] -25.00 dB BW 20.800000000 MHz Temp 1 [T1] ndB -25.01 dBm 5.169700000 GHz -25.72 dBm 5.190500000 GHz Center 5.18 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 14:09:55
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 1.01 dBm •VSW 1 MHz SWT 20 ms 5.200900000 GHz ndB [T1] -24.00 dB BW 21.800000000 MHz Temp 1 [T1] ndB -24.54 dBm 5.189400000 GHz -25.04 dBm 5.211200000 GHz Center 5.2 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 14:10:50
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 1.49 dBm •VSW 1 MHz SWT 20 ms 5.239200000 GHz ndB [T1] -24.00 dB BW 21.000000000 MHz Temp 1 [T1] ndB -25.58 dBm 5.229500000 GHz -24.89 dBm 5.250500000 GHz Center 5.24 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 14:12:17

802.11ac-VHT20-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 0.66 dBm VSW 1 MHz SWT 20 ms 5.177900000 GHz Offset 1 dB n dB [T1] 26.00 dB BW 20.000000000 MHz Temp 1 [T1] n dB -25.71 dBm 5.169500000 GHz -25.36 dBm 5.191500000 GHz Center 5.18 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 14:13:56
802.11ac-VHT20-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 0.18 dBm VSW 1 MHz SWT 20 ms 5.201000000 GHz Offset 1 dB n dB [T1] 26.00 dB BW 20.000000000 MHz Temp 1 [T1] n dB -25.56 dBm 5.189500000 GHz -25.32 dBm 5.210400000 GHz Center 5.2 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 14:14:13
802.11ac-VHT20-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 1.26 dBm VSW 1 MHz SWT 20 ms 5.242700000 GHz Offset 1 dB n dB [T1] 26.00 dB BW 20.700000000 MHz Temp 1 [T1] n dB -24.64 dBm 5.229700000 GHz -24.59 dBm 5.250400000 GHz Center 5.24 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 14:14:28

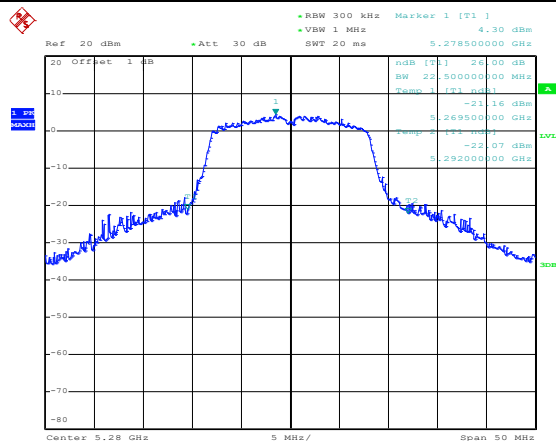
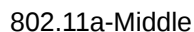
802.11n-HT40-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -0.64 dBm VSW 1 MHz SWT 20 ms 5.188600000 GHz Offset 1 dB n dB [T1] 26.00 dB BW 40.60000000 MHz Temp 1 [T1] n dB -27.26 dBm 5.169800000 GHz -27.38 dBm 5.210400000 GHz Center 5.19 GHz 10 MHz/ Span 100 MHz Date: 9.NOV.2023 09:02:08
802.11N-HT40-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -0.18 dBm VSW 1 MHz SWT 20 ms 5.232800000 GHz Offset 1 dB n dB [T1] 26.00 dB BW 40.60000000 MHz Temp 1 [T1] n dB -26.78 dBm 5.209800000 GHz -26.96 dBm 5.250400000 GHz Center 5.23 GHz 10 MHz/ Span 100 MHz Date: 9.NOV.2023 09:02:26
802.11ac-VHT40-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -0.71 dBm VSW 1 MHz SWT 20 ms 5.192200000 GHz Offset 1 dB n dB [T1] 26.00 dB BW 40.40000000 MHz Temp 1 [T1] n dB -27.48 dBm 5.169800000 GHz -27.60 dBm 5.210200000 GHz Center 5.19 GHz 10 MHz/ Span 100 MHz Date: 9.NOV.2023 09:02:50

802.11ac-VHT40-High	Ref 20 dBm Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] -0.42 dBm 5.231600000 GHz <table><tr><td>dBm [T1]</td><td>-25.80 dBm</td></tr><tr><td>BW</td><td>40.60000000 MHz</td></tr><tr><td>Temp [T1]</td><td>5.209800000 GHz</td></tr><tr><td>dBm [T1]</td><td>-27.57 dBm</td></tr><tr><td>BW</td><td>5.250400000 GHz</td></tr></table> Center 5.23 GHz 10 MHz/ Span 100 MHz Date: 9.NOV.2023 09:03:04	dBm [T1]	-25.80 dBm	BW	40.60000000 MHz	Temp [T1]	5.209800000 GHz	dBm [T1]	-27.57 dBm	BW	5.250400000 GHz
dBm [T1]	-25.80 dBm										
BW	40.60000000 MHz										
Temp [T1]	5.209800000 GHz										
dBm [T1]	-27.57 dBm										
BW	5.250400000 GHz										
802.11ac-VHT80-Low	Ref 20 dBm Att 30 dB RBW 1 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] 2.56 dBm 5.196680000 GHz <table><tr><td>dBm [T1]</td><td>-23.59 dBm</td></tr><tr><td>BW</td><td>81.72000000 MHz</td></tr><tr><td>Temp [T1]</td><td>5.169320000 GHz</td></tr><tr><td>dBm [T1]</td><td>-23.28 dBm</td></tr><tr><td>BW</td><td>5.251040000 GHz</td></tr></table> Center 5.21 GHz 18 MHz/ Span 180 MHz Date: 9.NOV.2023 09:03:32	dBm [T1]	-23.59 dBm	BW	81.72000000 MHz	Temp [T1]	5.169320000 GHz	dBm [T1]	-23.28 dBm	BW	5.251040000 GHz
dBm [T1]	-23.59 dBm										
BW	81.72000000 MHz										
Temp [T1]	5.169320000 GHz										
dBm [T1]	-23.28 dBm										
BW	5.251040000 GHz										

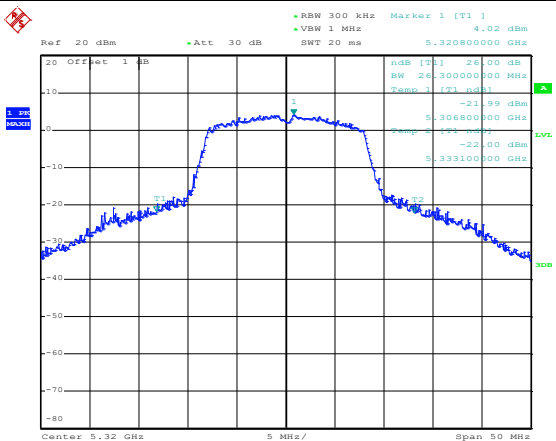
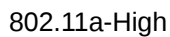
5250-5350MHz



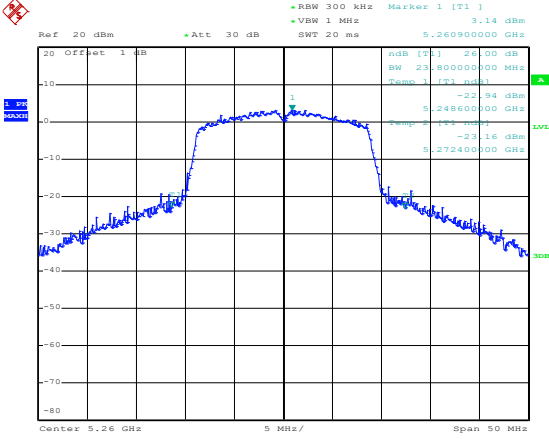
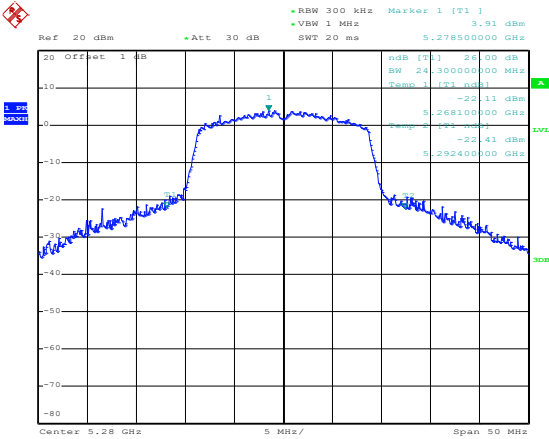
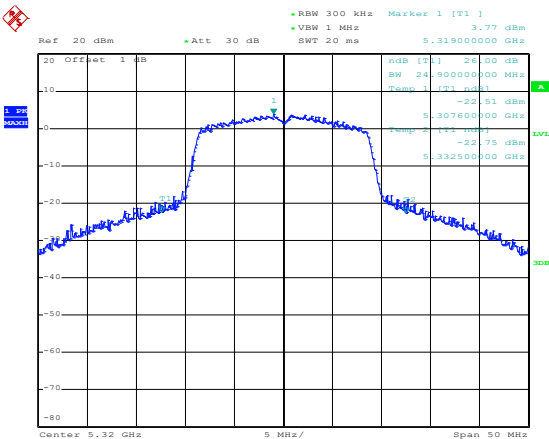
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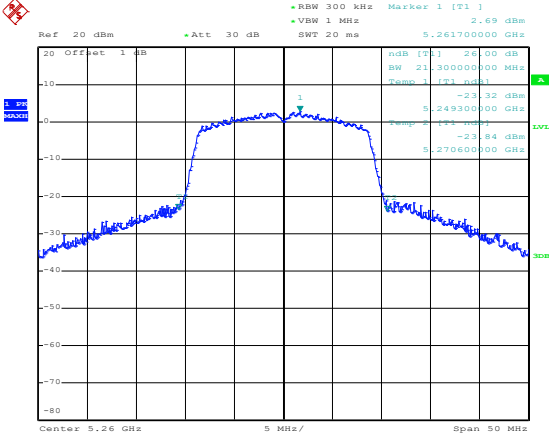
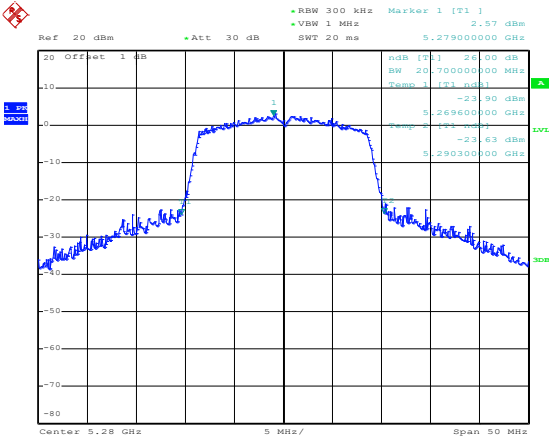
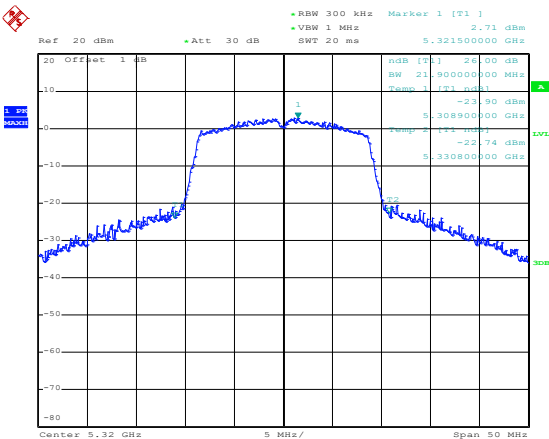


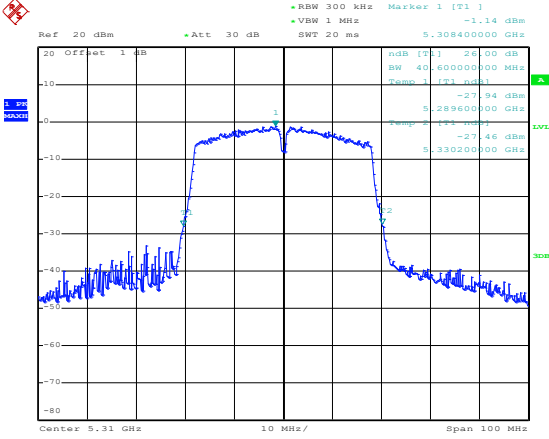
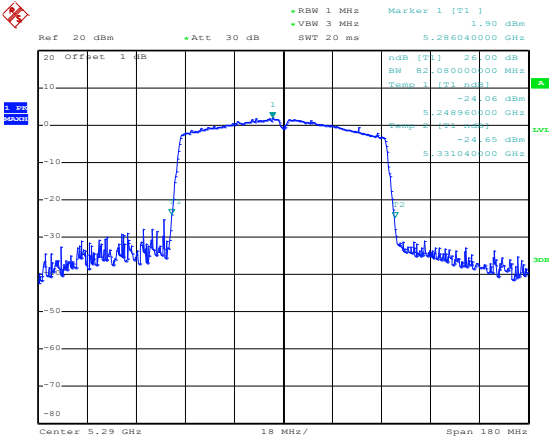
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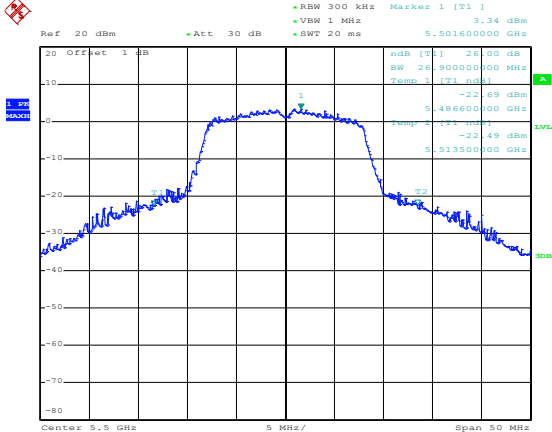
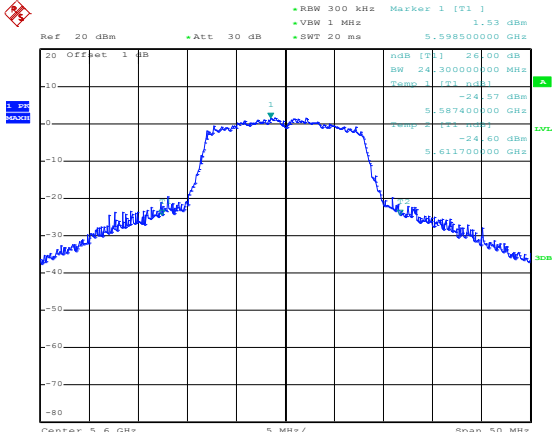
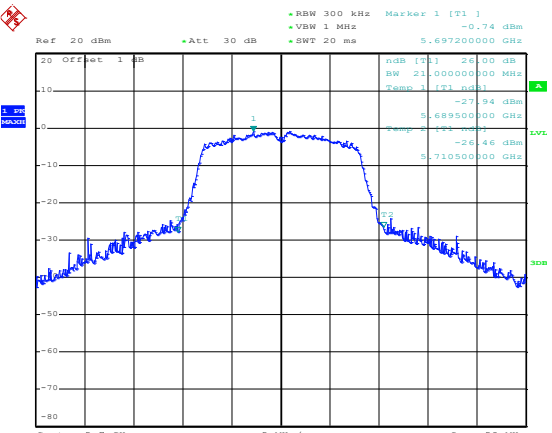
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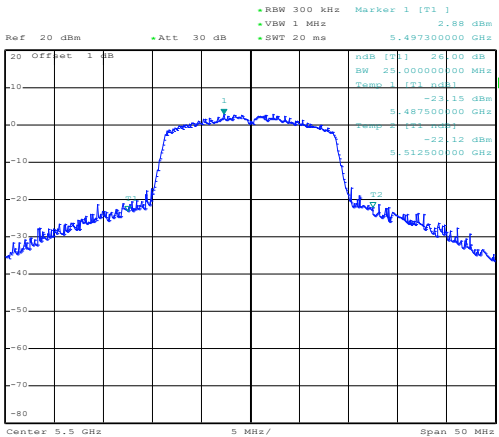
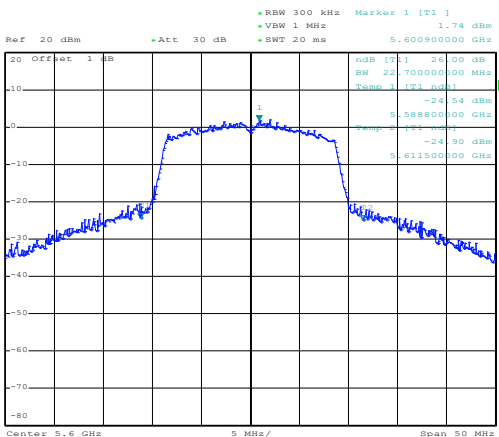
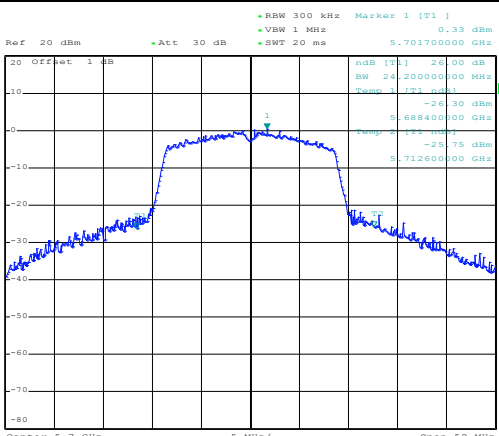
802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 3.14 dBm •VSW 1 MHz SWT 20 ms 5.260900000 GHz ndB [T1] -22.94 dBm BW 23.800000000 MHz Temp 1 [T1] ndB 5.248600000 GHz -22.94 dBm 5.272400000 GHz -22.16 dBm Center 5.26 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 14:41:20
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 3.91 dBm •VSW 1 MHz SWT 20 ms 5.278500000 GHz ndB [T1] -22.11 dBm BW 24.300000000 MHz Temp 1 [T1] ndB 5.268100000 GHz -22.11 dBm 5.292400000 GHz -22.41 dBm Center 5.28 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 14:41:39
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 3.77 dBm •VSW 1 MHz SWT 20 ms 5.319000000 GHz ndB [T1] -22.51 dBm BW 24.900000000 MHz Temp 1 [T1] ndB 5.307600000 GHz -22.51 dBm 5.332500000 GHz -22.75 dBm Center 5.32 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 14:42:00

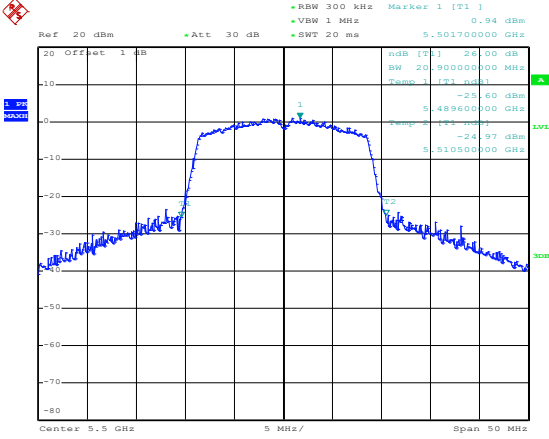
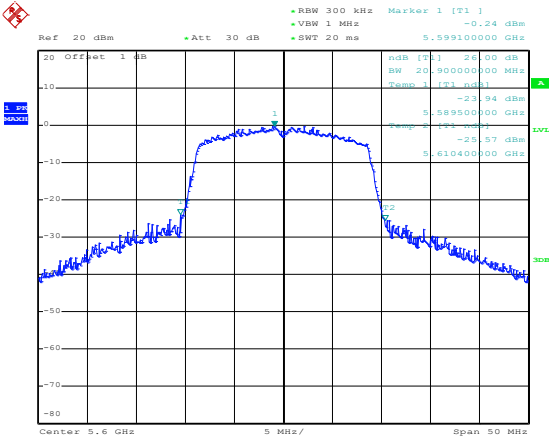
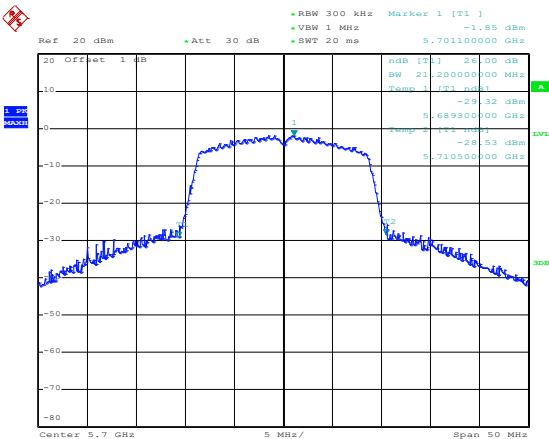
802.11ac-VHT20-Low	 Date: 10.SEP.2023 14:42:27
802.11ac-VHT20-Middle	 Date: 10.SEP.2023 14:42:42
802.11ac-VHT20-High	 Date: 10.SEP.2023 14:42:58

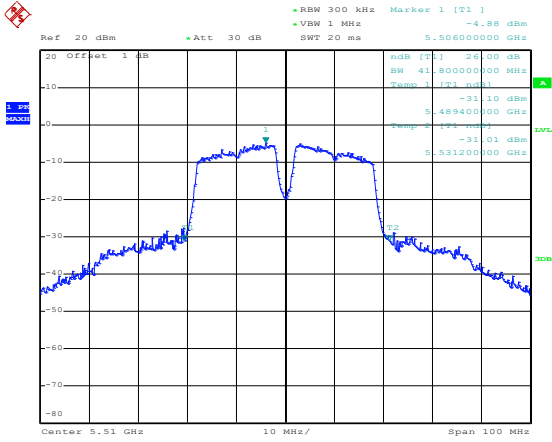
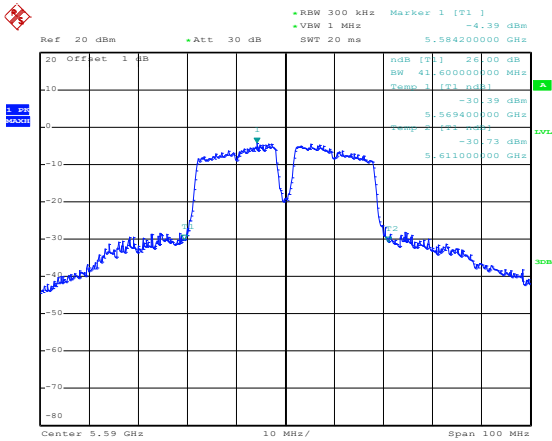
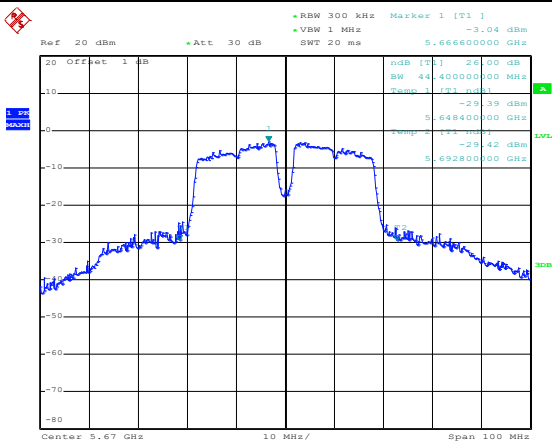
802.11ac-VHT40-High	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] -1.14 dBm VSW 1 MHz SWT 20 ms 5.308400000 GHz 20 Offset 1 dB dBm 10 0 -10 -20 -30 -40 -50 -60 -70 -80 Center 5.31 GHz 10 MHz/ Span 100 MHz Date: 9.NOV.2023 09:08:26
802.11ac-VHT80-Low	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] -1.90 dBm VSW 3 MHz SWT 20 ms 5.286040000 GHz 20 Offset 1 dB dBm 10 0 -10 -20 -30 -40 -50 -60 -70 -80 Center 5.29 GHz 18 MHz/ Span 180 MHz Date: 9.NOV.2023 09:09:07

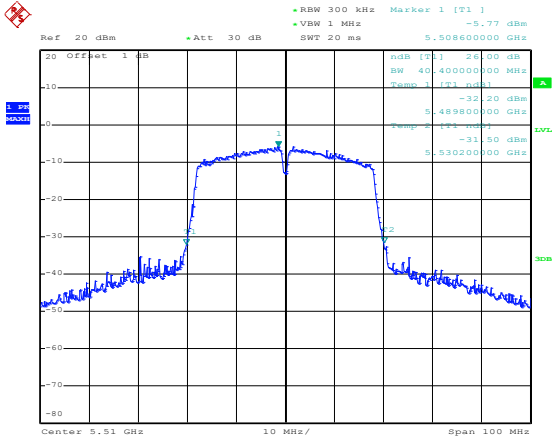
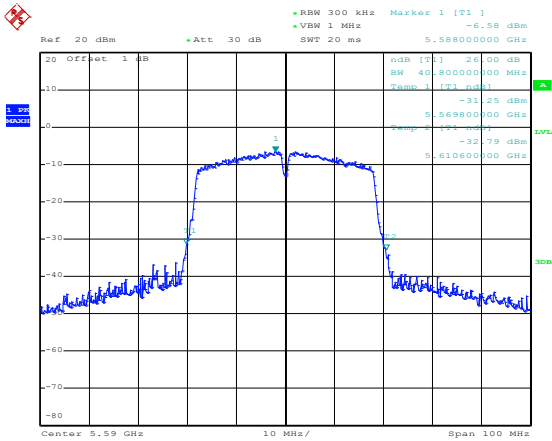
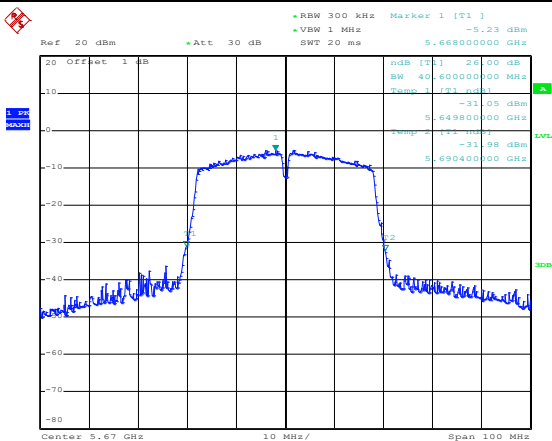
5470-5725MHz

802.11a-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 3.34 dBm VSW 1 MHz 5.501600000 GHz SWT 20 ms ndB [T1] -22.69 dBm BW 26.90000000 MHz Temp 1 [T1] ndBm 5.486600000 GHz 5.513500000 GHz Center 5.5 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 15:39:05
802.11a-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 1.53 dBm VSW 1 MHz 5.598500000 GHz SWT 20 ms ndB [T1] -24.37 dBm BW 24.30000000 MHz Temp 1 [T1] ndBm 5.587400000 GHz 5.611700000 GHz Center 5.6 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 15:40:38
802.11a-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -0.74 dBm VSW 1 MHz 5.697200000 GHz SWT 20 ms ndB [T1] -27.94 dBm BW 21.00000000 MHz Temp 1 [T1] ndBm 5.689500000 GHz 5.710500000 GHz Center 5.7 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 15:40:52

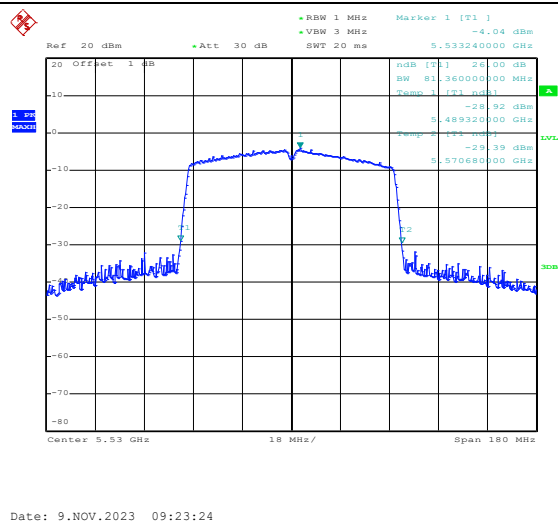
802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 2.88 dBm •VSW 1 MHz •SWT 20 ms 5.497300000 GHz 20 Offset 1 dB n dB [T1] 23.00 dB BW 25.00000000 MHz Temp 1 [T1] n dB -23.15 dBm 5.487500000 GHz -22.12 dBm 5.512500000 GHz Center 5.5 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 15:41:12
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 1.74 dBm •VSW 1 MHz •SWT 20 ms 5.600900000 GHz 20 Offset 1 dB n dB [T1] 24.00 dB BW 22.70000000 MHz Temp 1 [T1] n dB -24.54 dBm 5.588800000 GHz -24.90 dBm 5.611800000 GHz Center 5.6 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 15:43:31
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 0.33 dBm •VSW 1 MHz •SWT 20 ms 5.701700000 GHz 20 Offset 1 dB n dB [T1] 24.00 dB BW 24.20000000 MHz Temp 1 [T1] n dB -26.30 dBm 5.688400000 GHz -25.75 dBm 5.712600000 GHz Center 5.7 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 15:43:44

802.11ac-VHT20-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -0.94 dBm VSW 1 MHz SWT 20 ms 5.501700000 GHz ndB [T1] -25.60 dBm BW 20.900000000 MHz Temp 1 [T1] -25.60 dBm 5.489600000 GHz Temp 2 [T2] -24.97 dBm 5.510500000 GHz Center 5.5 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 15:44:09
802.11ac-VHT20-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -0.24 dBm VSW 1 MHz SWT 20 ms 5.599100000 GHz ndB [T1] -23.94 dBm BW 20.900000000 MHz Temp 1 [T1] -23.94 dBm 5.589500000 GHz Temp 2 [T2] -25.37 dBm 5.610400000 GHz Center 5.6 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 15:44:27
802.11ac-VHT20-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -1.85 dBm VSW 1 MHz SWT 20 ms 5.701100000 GHz ndB [T1] -29.32 dBm BW 21.200000000 MHz Temp 1 [T1] -29.32 dBm 5.689300000 GHz Temp 2 [T2] -28.53 dBm 5.710500000 GHz Center 5.7 GHz 5 MHz/ Span 50 MHz Date: 10.SEP.2023 15:45:05

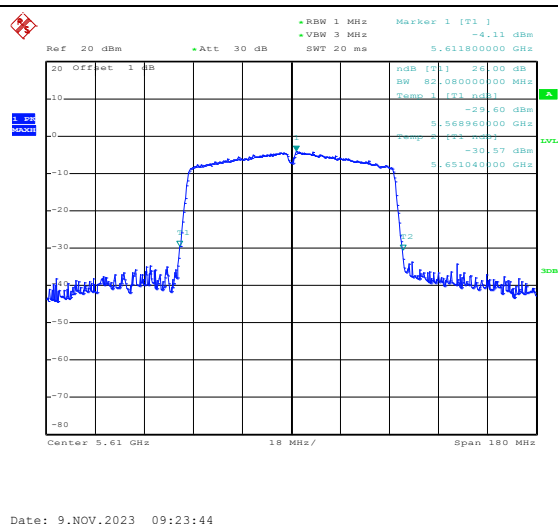
802.11n-HT40-Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] -4.88 dBm •VBW 1 MHz SWT 20 ms 5.506000000 GHz 20 Offset 1 dB ndB [T1] 26.00 dB BW 41.80000000 MHz Temp 1 [T1] ndB -31.10 dBm 5.489400000 GHz -31.01 dBm 5.532000000 GHz Center 5.51 GHz 10 MHz/ Span 100 MHz Date: 9.NOV.2023 09:19:33
802.11n-HT40- Middle	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] -4.39 dBm •VBW 1 MHz SWT 20 ms 5.584200000 GHz 20 Offset 1 dB ndB [T1] 26.00 dB BW 41.60000000 MHz Temp 1 [T1] ndB -30.39 dBm 5.569400000 GHz -30.73 dBm 5.611000000 GHz Center 5.59 GHz 10 MHz/ Span 100 MHz Date: 9.NOV.2023 09:19:56
802.11n-HT40-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] -3.04 dBm •VBW 1 MHz SWT 20 ms 5.666600000 GHz 20 Offset 1 dB ndB [T1] 26.00 dB BW 44.40000000 MHz Temp 1 [T1] ndB -29.39 dBm 5.648400000 GHz -29.42 dBm 5.692800000 GHz Center 5.67 GHz 10 MHz/ Span 100 MHz Date: 9.NOV.2023 09:20:17

802.11ac-VHT40-Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] -5.77 dBm •VSW 1 MHz SWT 20 ms 5.508600000 GHz 20 Offset 1 dB n dB [T1] 26.00 dB A BW 40.400000000 MHz Temp 1 [T1] n dB -32.20 dBm 5.489800000 GHz -31.50 dBm 5.503000000 GHz Center 5.51 GHz 10 MHz/ Span 100 MHz Date: 9.NOV.2023 09:21:11
802.11ac-VHT40-Middle	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] -6.58 dBm •VSW 1 MHz SWT 20 ms 5.588000000 GHz 20 Offset 1 dB n dB [T1] 26.00 dB A BW 40.800000000 MHz Temp 1 [T1] n dB -31.25 dBm 5.569800000 GHz -32.79 dBm 5.610600000 GHz Center 5.59 GHz 10 MHz/ Span 100 MHz Date: 9.NOV.2023 09:21:56
802.11ac-VHT40-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] -5.23 dBm •VSW 1 MHz SWT 20 ms 5.668000000 GHz 20 Offset 1 dB n dB [T1] 26.00 dB A BW 40.600000000 MHz Temp 1 [T1] n dB -31.05 dBm 5.649800000 GHz -31.98 dBm 5.690400000 GHz Center 5.67 GHz 10 MHz/ Span 100 MHz Date: 9.NOV.2023 09:22:36

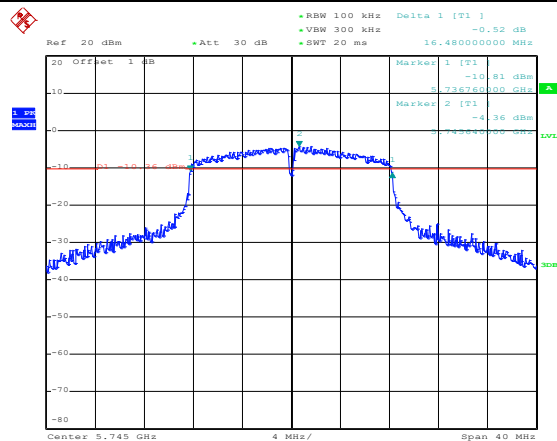
802.11ac-VHT80-Low



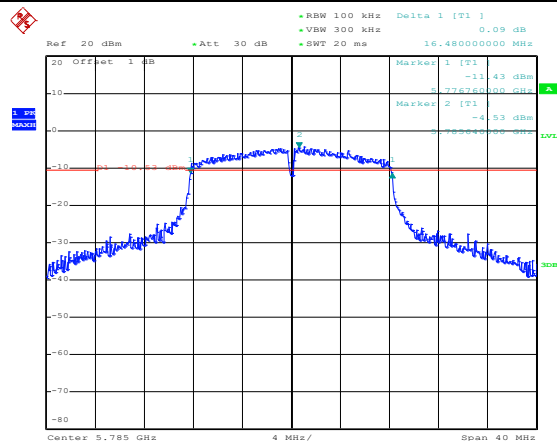
802.11ac-VHT80-High



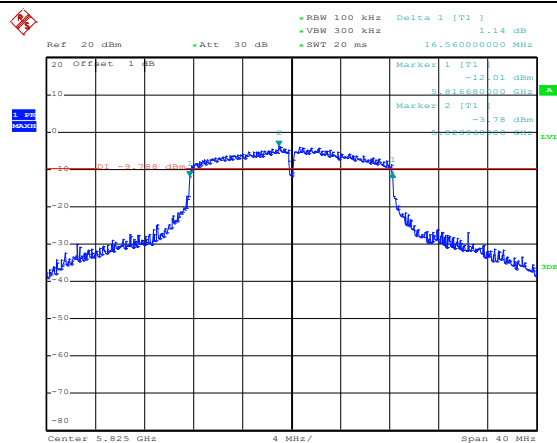
5725-5850MHz



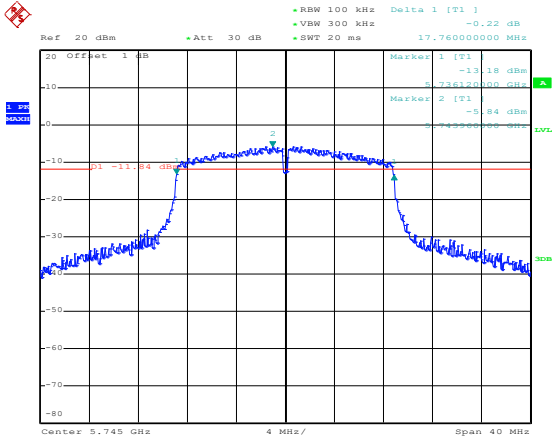
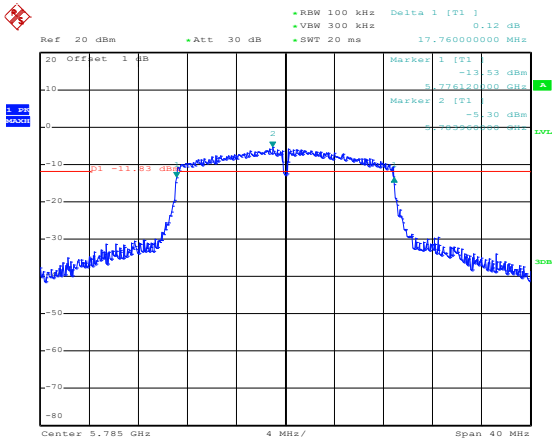
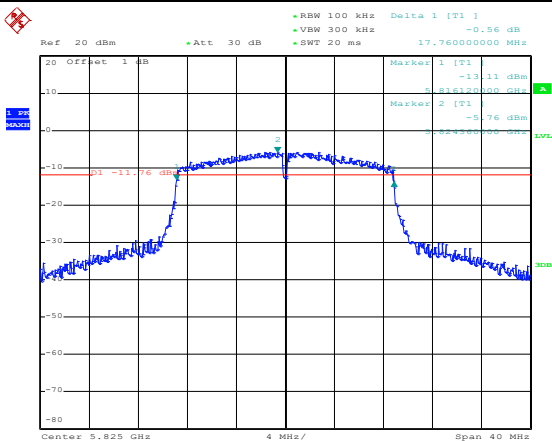
Date: 10.SEP.2023 16:40:11

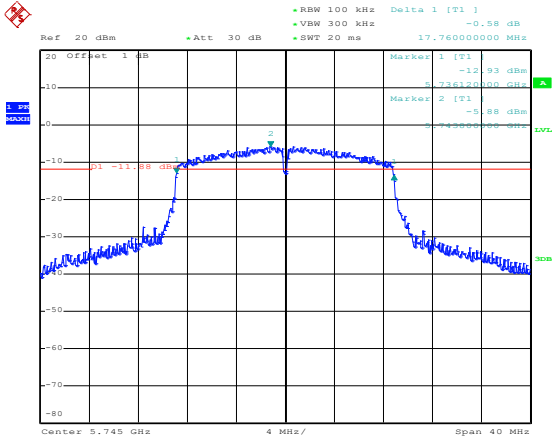
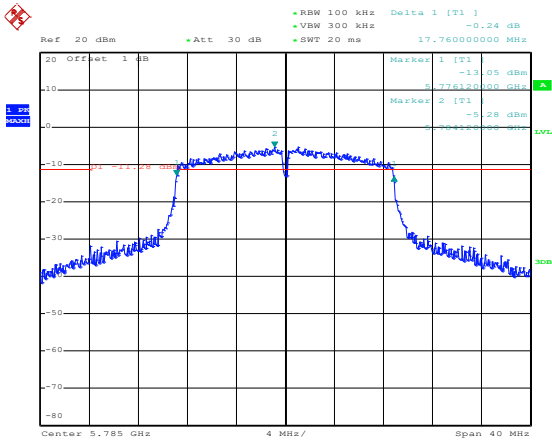
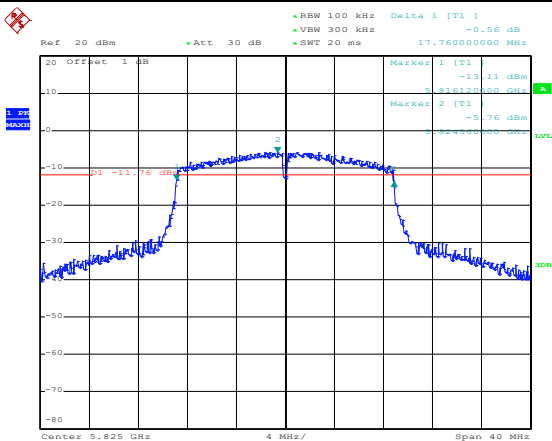


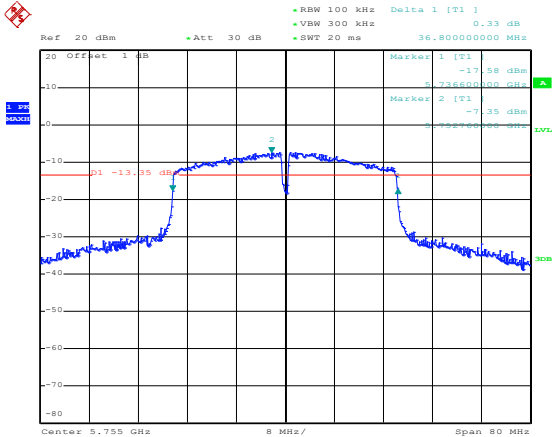
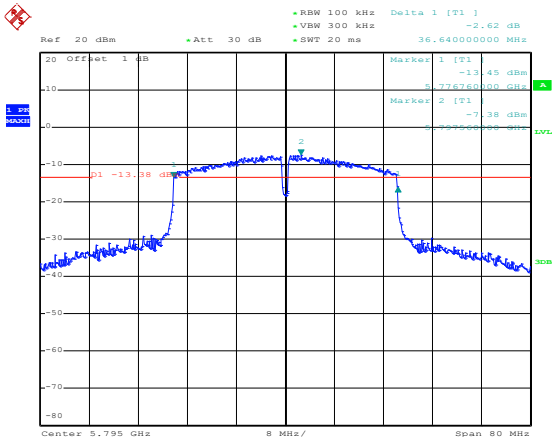
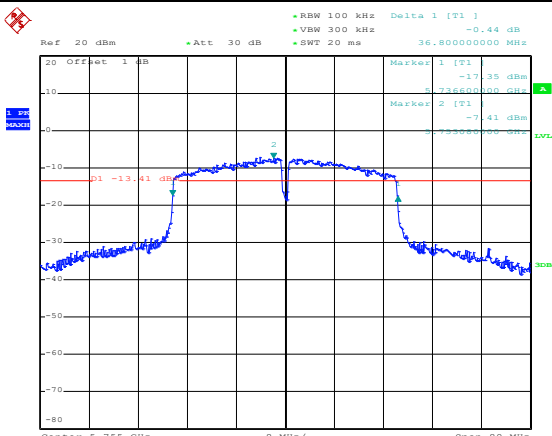
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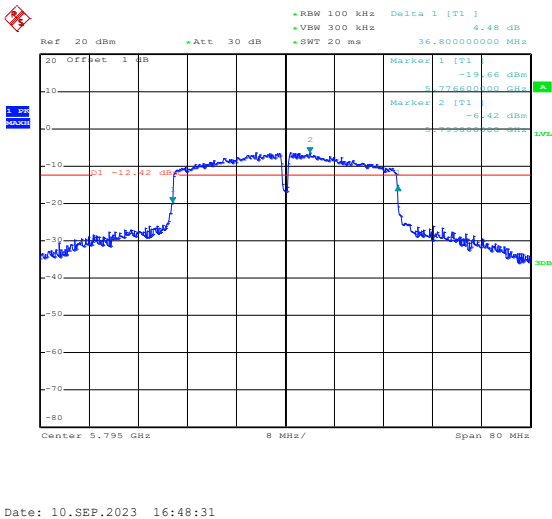
Date: 10.SEP.2023 16:41:24

802.11n-HT20-Low	 Date: 10.SEP.2023 16:42:03
802.11n-HT20-Middle	 Date: 10.SEP.2023 16:42:38
802.11n-HT20-High	 Date: 10.SEP.2023 16:43:11

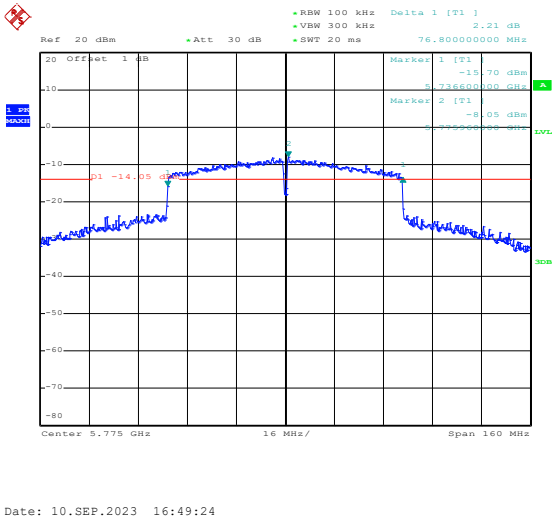
802.11ac-VHT20-Low	 Ref 20 dBm Att 30 dB Marker 1 [T1] -12.93 dBm Marker 2 [T1] -5.88 dBm Center 5.745 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 16:43:46
802.11ac-VHT20-Middle	 Ref 20 dBm Att 30 dB Marker 1 [T1] -13.05 dBm Marker 2 [T1] -5.28 dBm Center 5.785 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 16:44:16
802.11ac-VHT20-High	 Ref 20 dBm Att 30 dB Marker 1 [T1] -13.11 dBm Marker 2 [T1] -5.76 dBm Center 5.825 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 16:43:11

802.11n-HT40-Low	 Ref 20 dBm •Att 30 dB •RBW 100 kHz Delta 1 [T1] 0.33 dB •VSW 300 kHz 36.800000000 MHz •SWT 20 ms Marker 1 [T1] -17.58 dBm Marker 2 [T1] -7.35 dBm p1 -13.35 dB Center 5.755 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 16:46:01
802.11n-HT40-High	 Ref 20 dBm •Att 30 dB •RBW 100 kHz Delta 1 [T1] -2.62 dB •VSW 300 kHz 36.640000000 MHz •SWT 20 ms Marker 1 [T1] -13.45 dBm Marker 2 [T1] -7.38 dBm p1 -13.38 dB Center 5.755 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 16:46:45
802.11ac-VHT40-Low	 Ref 20 dBm •Att 30 dB •RBW 100 kHz Delta 1 [T1] -0.44 dB •VSW 300 kHz 36.800000000 MHz •SWT 20 ms Marker 1 [T1] -17.35 dBm Marker 2 [T1] -7.41 dBm p1 -13.41 dB Center 5.755 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 16:47:35

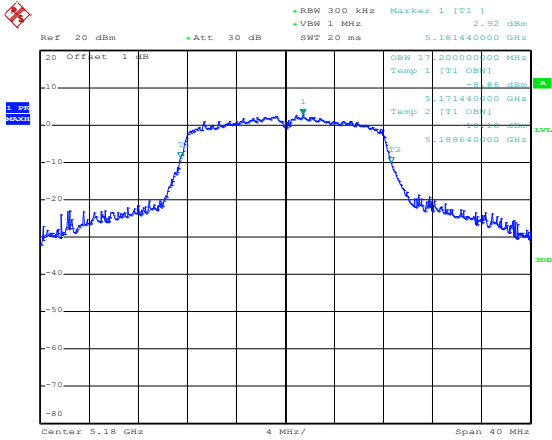
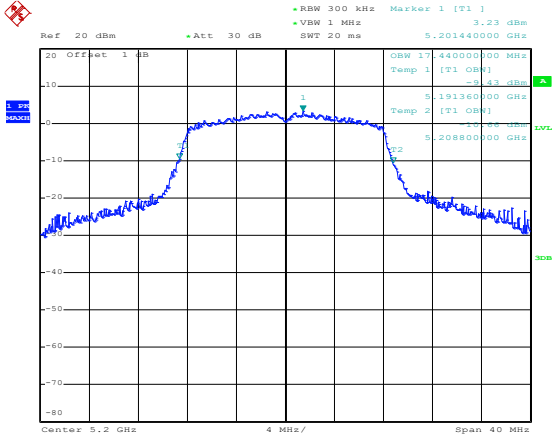
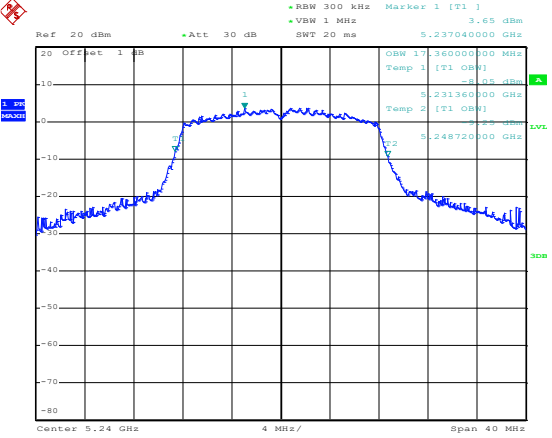
802.11ac-VHT40-High

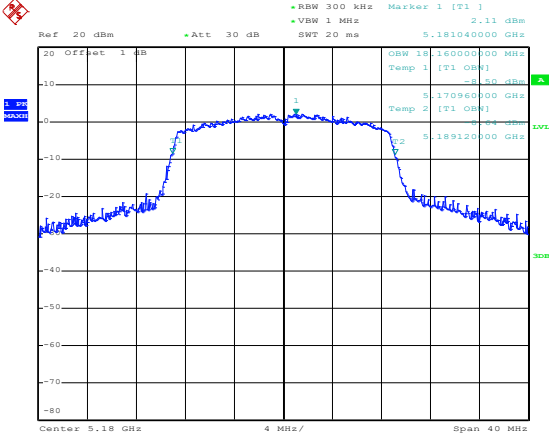
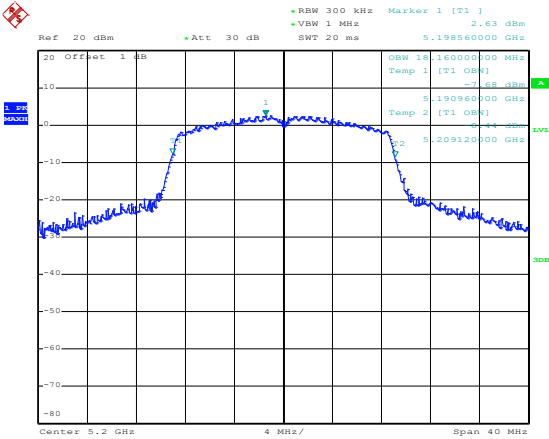
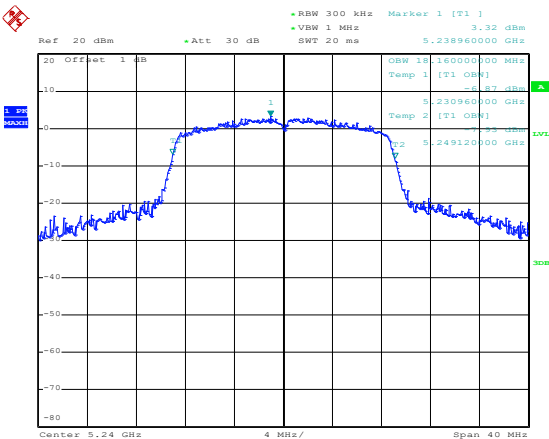


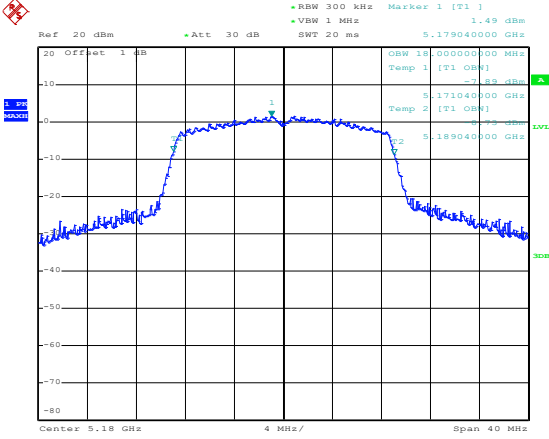
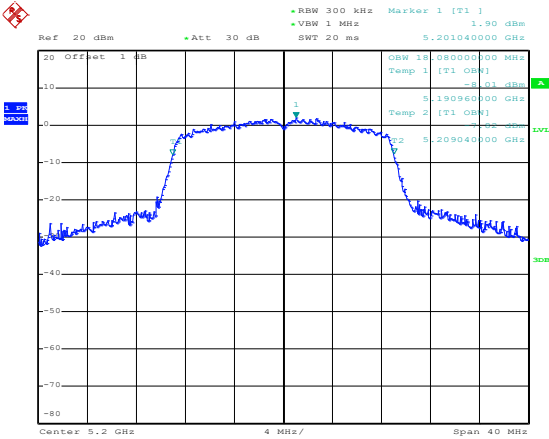
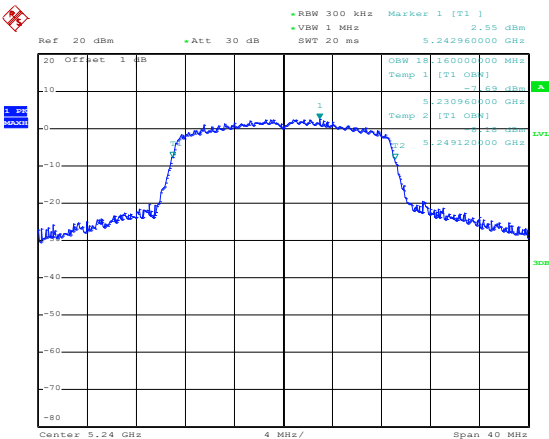
802.11ac-VHT80-Low

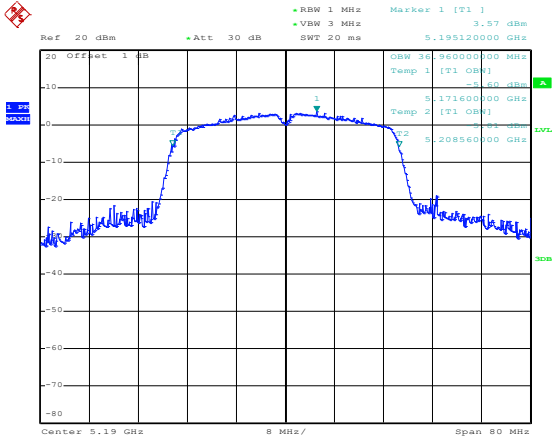
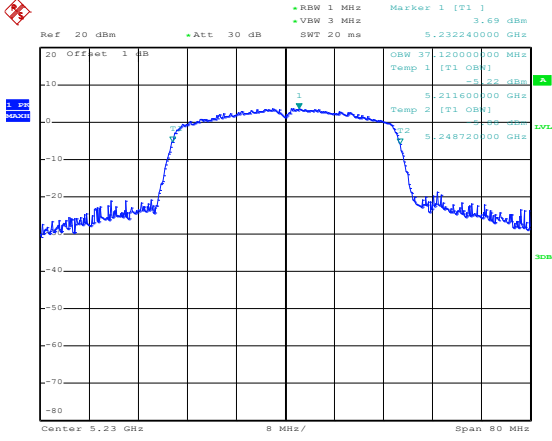
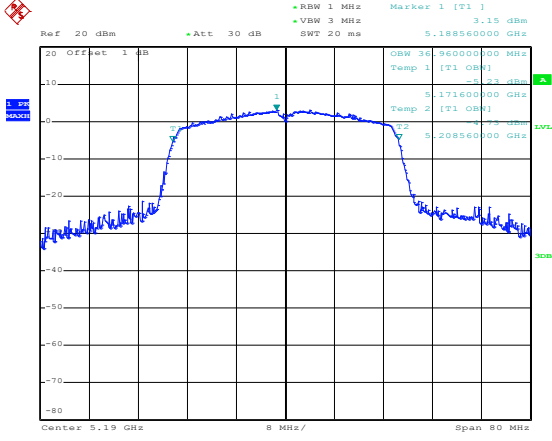


99% Bandwidth
5150-5250MHz

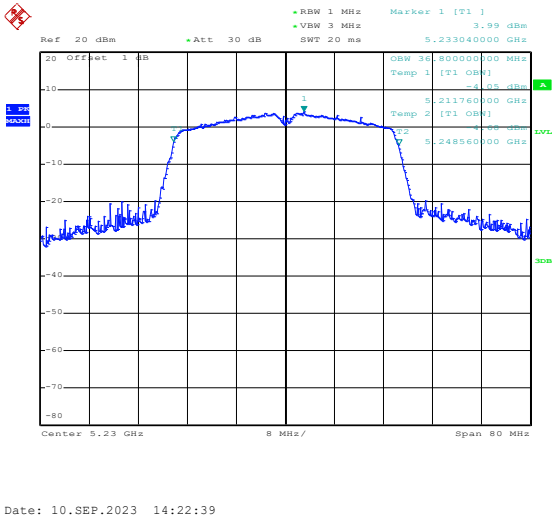
802.11a-Low	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 2.92 dBm VBW 1 MHz SWT 20 ms 5.183440000 GHz Offset 1 dB 20 dB 10 dB 0 dB -10 dB -20 dB -30 dB -40 dB -50 dB -60 dB -70 dB -80 dB Center 5.18 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:18:37
802.11a-Middle	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 3.23 dBm VBW 1 MHz SWT 20 ms 5.201440000 GHz Offset 1 dB 20 dB 10 dB 0 dB -10 dB -20 dB -30 dB -40 dB -50 dB -60 dB -70 dB -80 dB Center 5.2 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:18:57
802.11a-High	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 3.65 dBm VBW 1 MHz SWT 20 ms 5.237040000 GHz Offset 1 dB 20 dB 10 dB 0 dB -10 dB -20 dB -30 dB -40 dB -50 dB -60 dB -70 dB -80 dB Center 5.24 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:19:19

802.11n-HT20-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 2.11 dBm VSW 1 MHz SWT 20 ms 5.181040000 GHz OSW 18.160000000 MHz Temp 1 [T1 OBN] -5.50 dBm 5.170960000 GHz Temp 2 [T1 OBN] -5.44 dBm 5.189120000 GHz Center 5.18 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:19:43
802.11n-HT20-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 2.63 dBm VSW 1 MHz SWT 20 ms 5.198560000 GHz OSW 18.160000000 MHz Temp 1 [T1 OBN] -7.68 dBm 5.190960000 GHz Temp 2 [T1 OBN] -7.44 dBm 5.209120000 GHz Center 5.2 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:20:04
802.11n-HT20-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 3.32 dBm VSW 1 MHz SWT 20 ms 5.238960000 GHz OSW 18.160000000 MHz Temp 1 [T1 OBN] -5.87 dBm 5.230960000 GHz Temp 2 [T1 OBN] -5.88 dBm 5.249120000 GHz Center 5.24 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:20:17

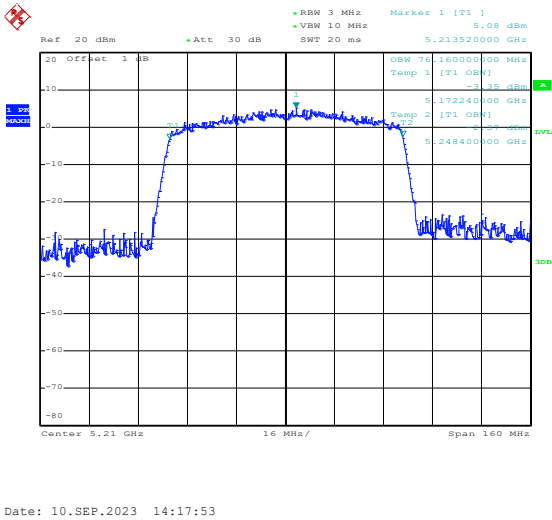
802.11ac-VHT20-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 1.49 dBm Center 5.18 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:20:42
802.11ac-VHT20-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 1.90 dBm Center 5.2 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:21:07
802.11ac-VHT20-High	 Ref 20 dBm Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 2.55 dBm Center 5.24 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:21:46

802.11n-HT40-Low	 Ref 20 dBm Att 30 dB Offset 1 dB RBW 1 MHz VBW 3 MHz SWT 20 ms Marker 1 [T1] 3.57 dBm 5.195120000 GHz OSW 30.96000000 MHz Temp 1 [T1 OBW] -5.60 dBm 5.171600000 GHz Temp 2 [T1 OBW] -5.62 dBm 5.208560000 GHz Center 5.19 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 14:23:02
802.11N-HT40-High	 Ref 20 dBm Att 30 dB Offset 1 dB RBW 1 MHz VBW 3 MHz SWT 20 ms Marker 1 [T1] 3.69 dBm 5.232240000 GHz OSW 37.12000000 MHz Temp 1 [T1 OBW] -5.22 dBm 5.211600000 GHz Temp 2 [T1 OBW] -5.24 dBm 5.248720000 GHz Center 5.23 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 14:23:43
802.11ac-VHT40-Low	 Ref 20 dBm Att 30 dB Offset 1 dB RBW 1 MHz VBW 3 MHz SWT 20 ms Marker 1 [T1] 3.15 dBm 5.188560000 GHz OSW 30.96000000 MHz Temp 1 [T1 OBW] -5.23 dBm 5.171600000 GHz Temp 2 [T1 OBW] -5.24 dBm 5.208560000 GHz Center 5.19 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 14:22:19

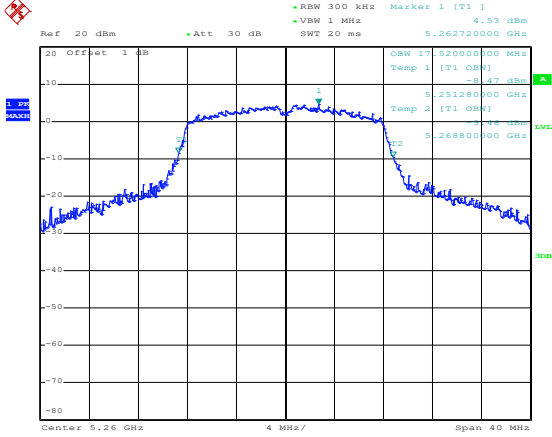
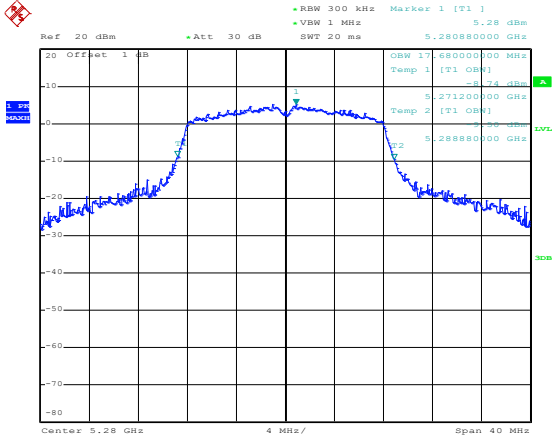
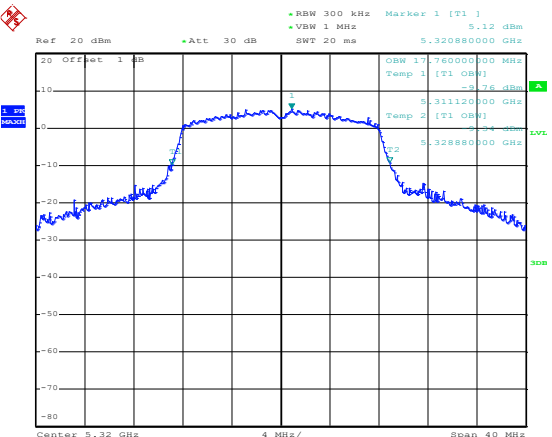
802.11ac-VHT40-High

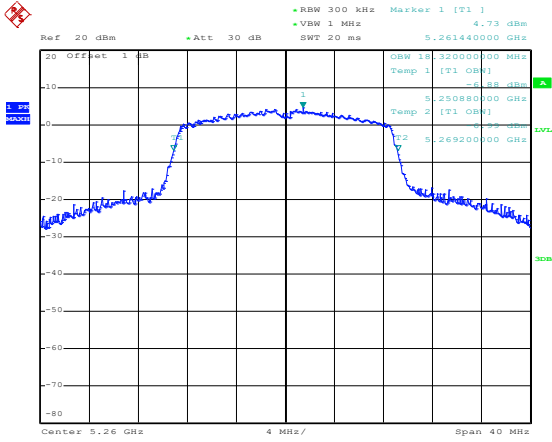
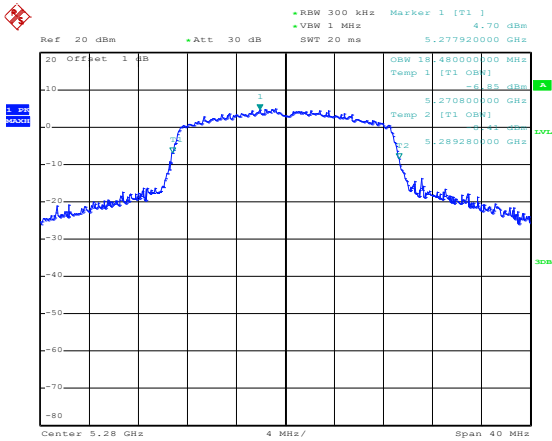
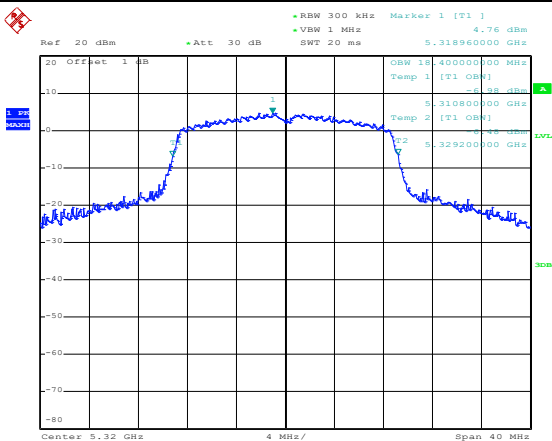


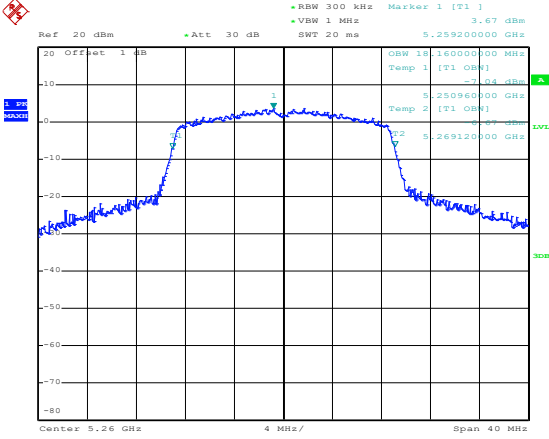
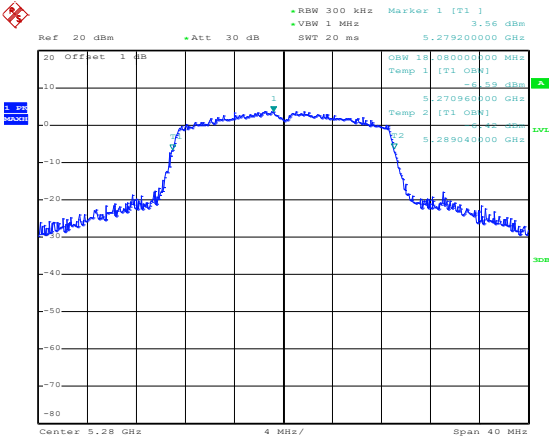
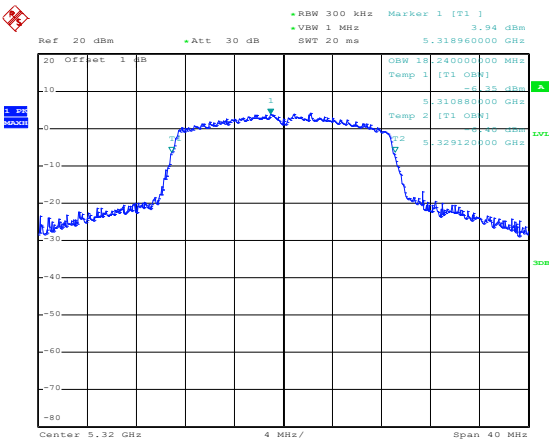
802.11ac-VHT80-Low

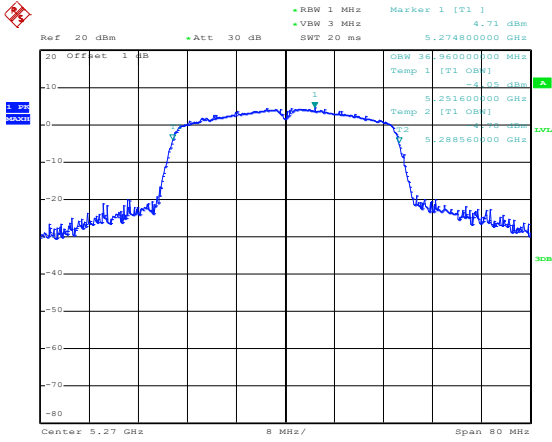
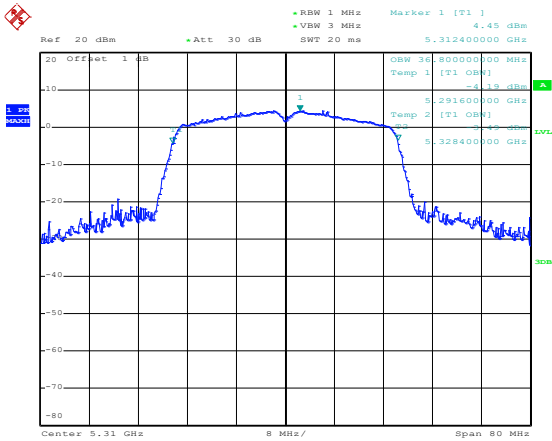
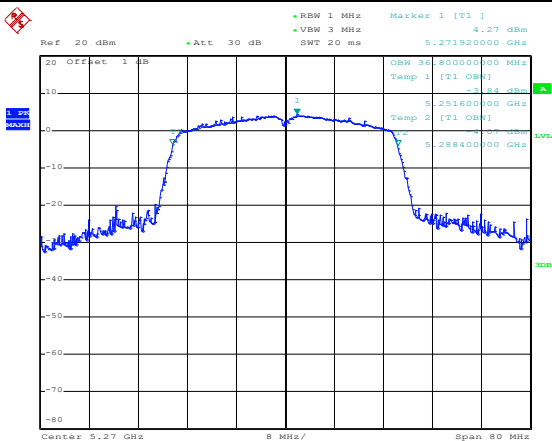


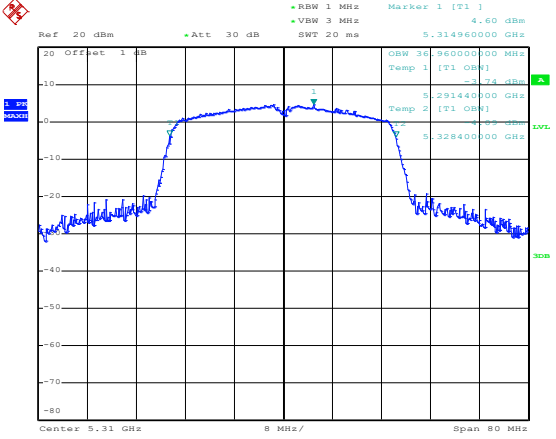
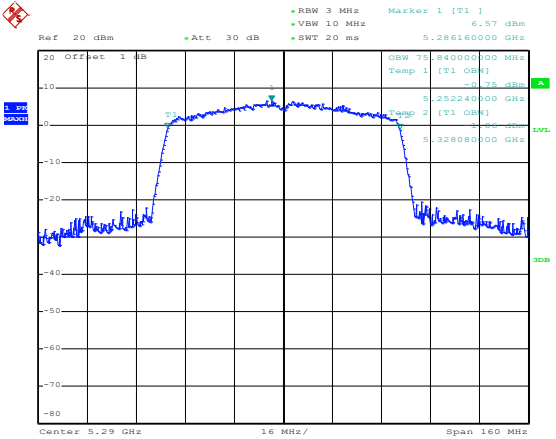
5250-5350MHz

802.11a-Low	 Date: 10.SEP.2023 14:46:58
802.11a-Middle	 Date: 10.SEP.2023 14:47:13
802.11a-High	 Date: 10.SEP.2023 14:47:28

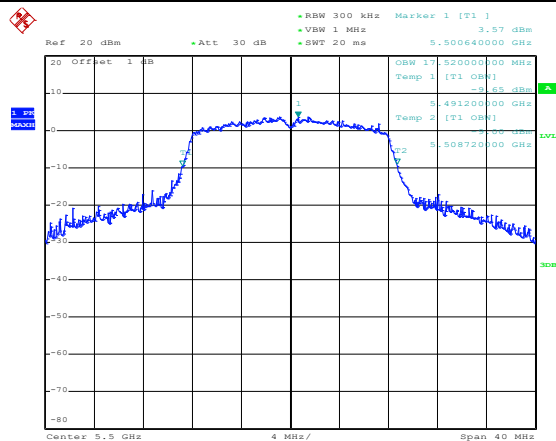
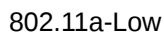
802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 4.73 dBm •VSW 1 MHz SWT 20 ms 5.261440000 GHz OSW 18.32000000 MHz Temp 1 [T1] 0.00 dBm Temp 2 [T1] 0.00 dBm 5.250880000 GHz 5.269200000 GHz Center 5.26 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:47:55
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 4.70 dBm •VSW 1 MHz SWT 20 ms 5.277920000 GHz OSW 18.48000000 MHz Temp 1 [T1] 0.00 dBm Temp 2 [T1] 0.00 dBm 5.270800000 GHz 5.289280000 GHz Center 5.28 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:48:21
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 4.76 dBm •VSW 1 MHz SWT 20 ms 5.318960000 GHz OSW 18.40000000 MHz Temp 1 [T1] 0.00 dBm Temp 2 [T1] 0.00 dBm 5.310800000 GHz 5.329200000 GHz Center 5.32 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:48:48

802.11ac-VHT20-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 3.67 dBm 5.259200000 GHz OSW 18.160000000 MHz Temp 1 [T1] 0.00 dBm 5.250960000 GHz Temp 2 [T1] 0.00 dBm 5.269120000 GHz Center 5.26 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:49:13
802.11ac-VHT20-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 3.56 dBm 5.279200000 GHz OSW 18.080000000 MHz Temp 1 [T1] 0.00 dBm 5.270960000 GHz Temp 2 [T1] 0.00 dBm 5.289040000 GHz Center 5.28 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:49:36
802.11ac-VHT20-High	 Ref 20 dBm Att 30 dB RBW 300 kHz VSW 1 MHz SWT 20 ms Marker 1 [T1] 3.94 dBm 5.318960000 GHz OSW 18.240000000 MHz Temp 1 [T1] 0.00 dBm 5.310880000 GHz Temp 2 [T1] 0.00 dBm 5.329120000 GHz Center 5.32 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 14:50:13

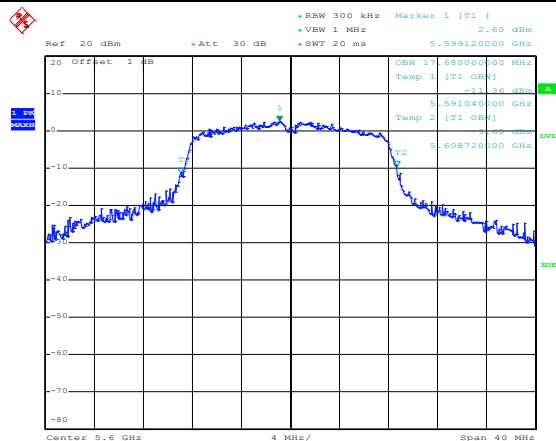
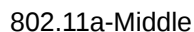
802.11n-HT40-Low	 Ref 20 dBm Att 30 dB RBW 1 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] 4.71 dBm 5.274800000 GHz OSW 30.00000000 MHz Temp 1 [T1] 0.00 dBm Temp 2 [T1] 0.00 dBm Center 5.27 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 14:51:10
802.11n-HT40-High	 Ref 20 dBm Att 30 dB RBW 1 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] 4.45 dBm 5.312400000 GHz OSW 30.00000000 MHz Temp 1 [T1] 0.00 dBm Temp 2 [T1] 0.00 dBm Center 5.31 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 14:51:28
802.11ac-VHT40-Low	 Ref 20 dBm Att 30 dB RBW 1 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] 4.27 dBm 5.271920000 GHz OSW 30.00000000 MHz Temp 1 [T1] 0.00 dBm Temp 2 [T1] 0.00 dBm Center 5.27 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 14:51:53

802.11ac-VHT40-High	 Ref 20 dBm Offset 1 dB Att 30 dB RBW 3 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] 4.60 dBm 5.314960000 GHz OSW 30.96000000 MHz Temp 1 [T1] 0.00 dBm -3.74 dBm 5.291440000 GHz Temp 2 [T1] 0.00 dBm -3.74 dBm 5.328400000 GHz Center 5.31 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 14:52:14
802.11ac-VHT80-Low	 Ref 20 dBm Offset 1 dB Att 30 dB RBW 3 MHz VSW 10 MHz SWT 20 ms Marker 1 [T1] 6.57 dBm 5.286160000 GHz OSW 70.84000000 MHz Temp 1 [T1] 0.00 dBm -3.75 dBm 5.252240000 GHz Temp 2 [T1] 0.00 dBm -3.75 dBm 5.328080000 GHz Center 5.29 GHz 16 MHz/ Span 160 MHz Date: 10.SEP.2023 14:53:05

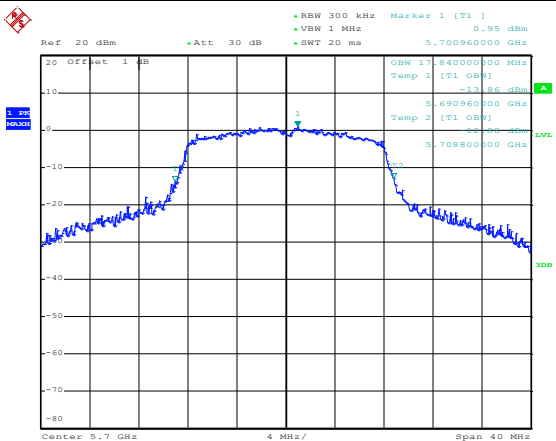
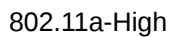
5470-5725MHz



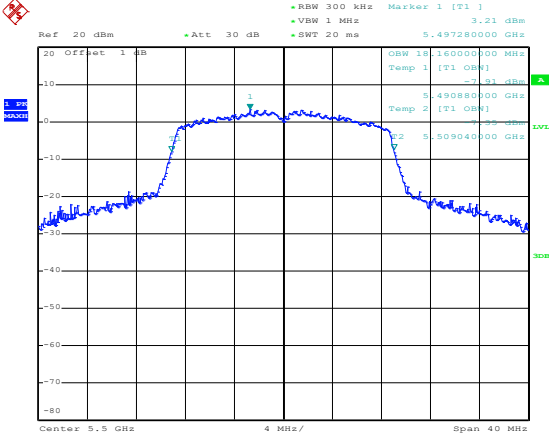
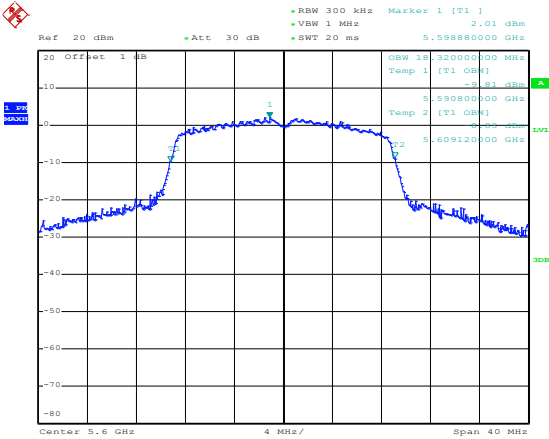
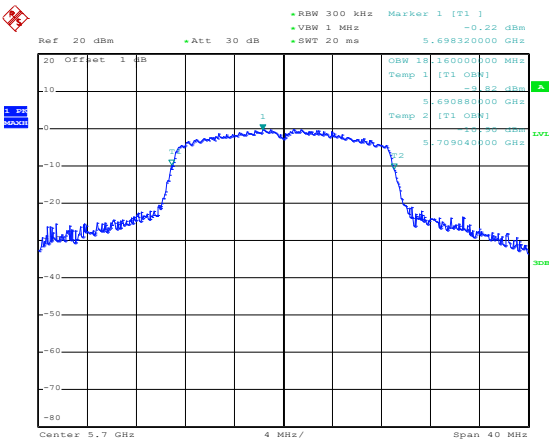
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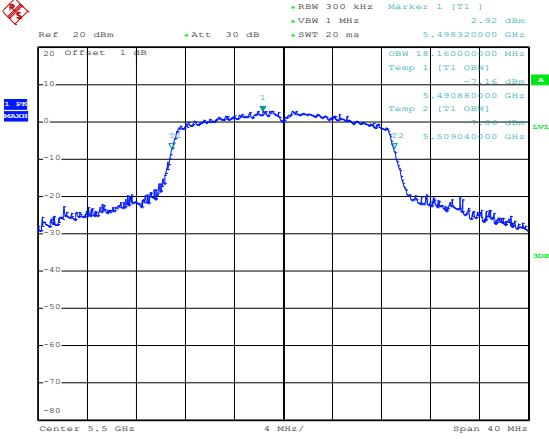
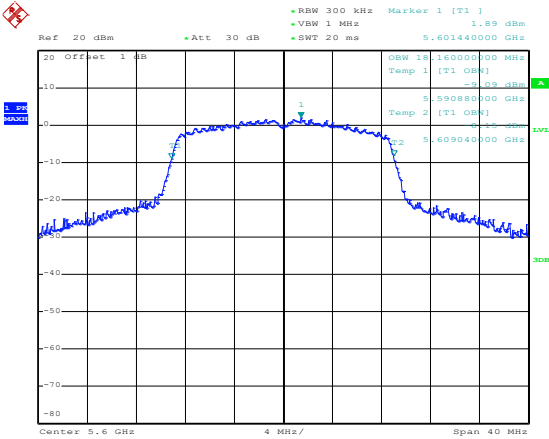
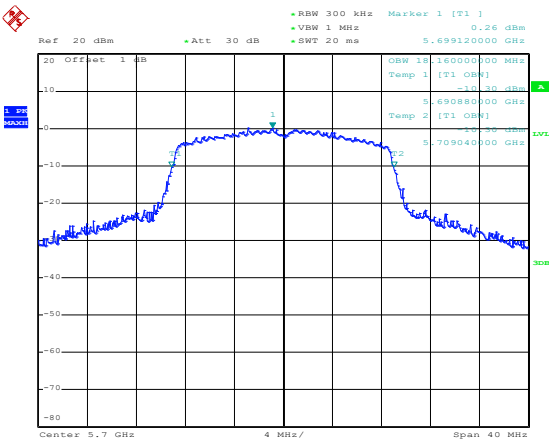


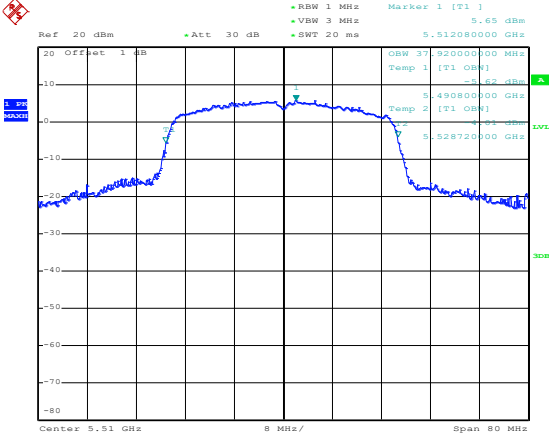
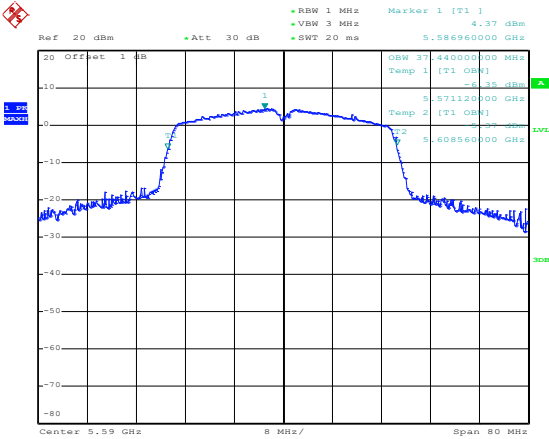
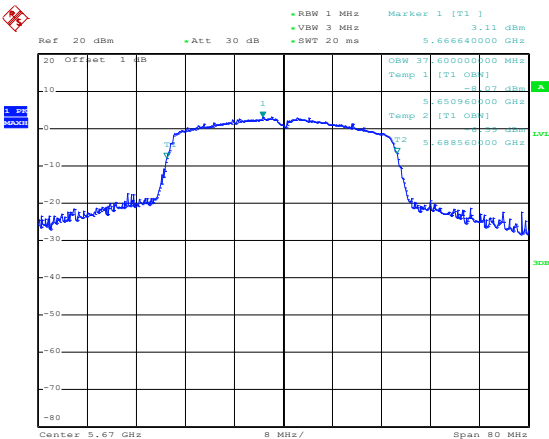
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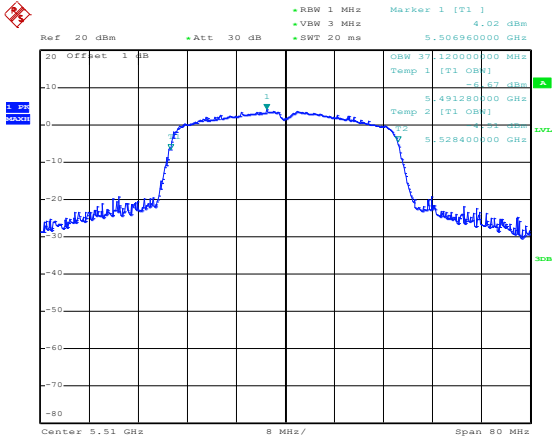
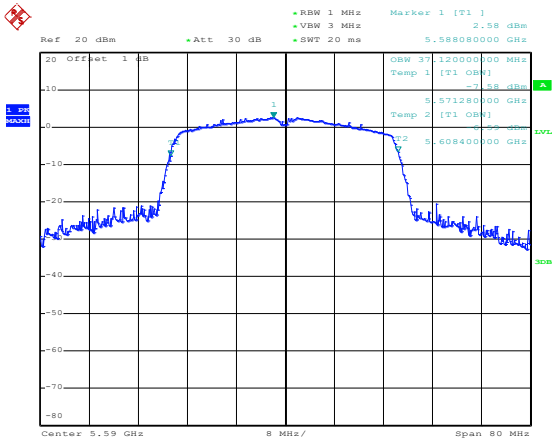
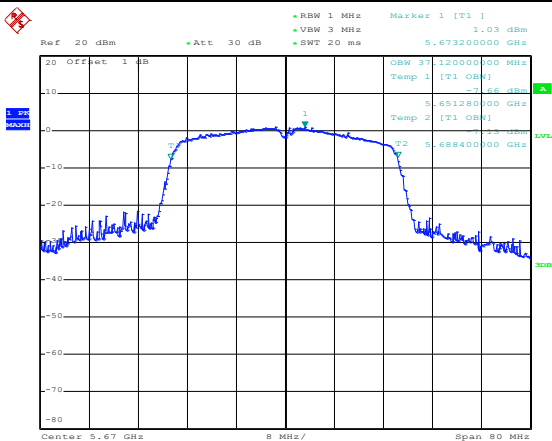


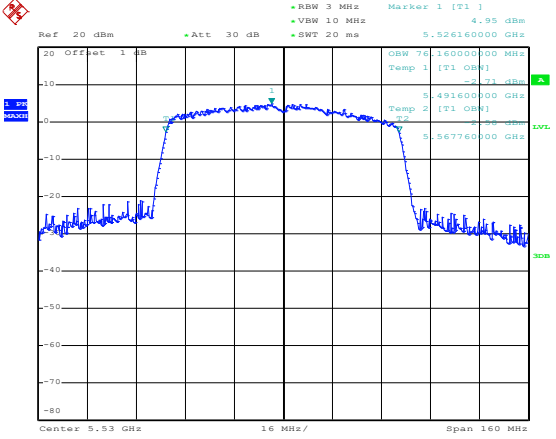
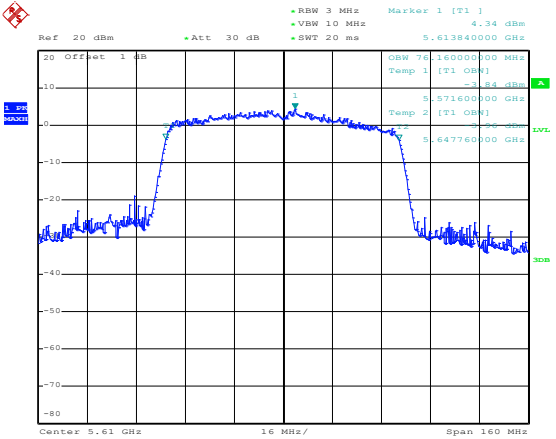
Date: 10.SEP.2023 15:24:32

802.11n-HT20-Low	 Ref 20 dBm • Att 30 dB • RBW 300 kHz Marker 1 [T1] 3.21 dBm • VSW 1 MHz • SWT 20 ms 5.497280000 GHz OSW 18.160000000 MHz Temp 1 [T1] OSW] -2.21 dBm 5.490880000 GHz Temp 2 [T1] OSW] -2.21 dBm 5.509040000 GHz Center 5.5 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 15:25:07
802.11n-HT20-Middle	 Ref 20 dBm • Att 30 dB • RBW 300 kHz Marker 1 [T1] 2.01 dBm • VSW 1 MHz • SWT 20 ms 5.598880000 GHz OSW 18.320000000 MHz Temp 1 [T1] OSW] -2.01 dBm 5.590880000 GHz Temp 2 [T1] OSW] -2.01 dBm 5.609120000 GHz Center 5.6 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 15:25:34
802.11n-HT20-High	 Ref 20 dBm • Att 30 dB • RBW 300 kHz Marker 1 [T1] -0.22 dBm • VSW 1 MHz • SWT 20 ms 5.698320000 GHz OSW 18.160000000 MHz Temp 1 [T1] OSW] -0.22 dBm 5.690880000 GHz Temp 2 [T1] OSW] -0.22 dBm 5.709040000 GHz Center 5.7 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 15:25:52

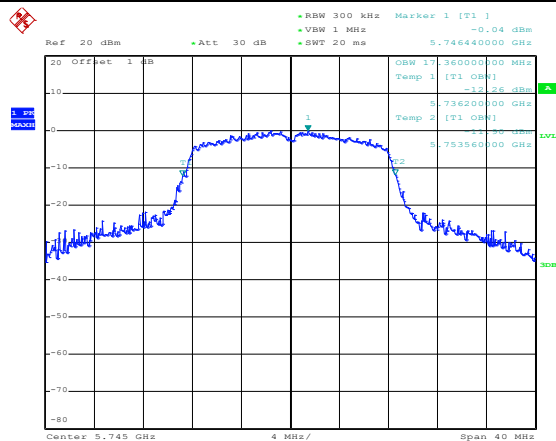
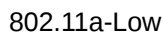
802.11ac-VHT20-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 2.92 dBm VSW 1 MHz SWT 20 ms 5.498320000 GHz OSW 18.160000000 MHz Temp 1 [T1] 0.00 dBm Temp 2 [T1] 0.00 dBm Center 5.5 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 15:26:18
802.11ac-VHT20-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 1.89 dBm VSW 1 MHz SWT 20 ms 5.601440000 GHz OSW 18.160000000 MHz Temp 1 [T1] 0.00 dBm Temp 2 [T1] 0.00 dBm Center 5.6 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 15:26:50
802.11ac-VHT20-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] 0.26 dBm VSW 1 MHz SWT 20 ms 5.699120000 GHz OSW 18.160000000 MHz Temp 1 [T1] 0.00 dBm Temp 2 [T1] 0.00 dBm Center 5.7 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 15:27:15

802.11n-HT40-Low	 Ref 20 dBm Att 30 dB RBW 1 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] 5.51208000 GHz 5.65 dBm OSW 37.92000000 MHz Temp 1 [T1 OBN] -5.62 dBm 5.49080000 GHz Temp 2 [T1 OBN] -5.62 dBm 5.52872000 GHz Center 5.51 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 15:30:22
802.11n-HT40- Middle	 Ref 20 dBm Att 30 dB RBW 1 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] 5.58696000 GHz 4.37 dBm OSW 37.44000000 MHz Temp 1 [T1 OBN] -5.45 dBm 5.57112000 GHz Temp 2 [T1 OBN] -5.45 dBm 5.60856000 GHz Center 5.59 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 15:30:39
802.11n-HT40-High	 Ref 20 dBm Att 30 dB RBW 1 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] 5.66640000 GHz 3.11 dBm OSW 37.60000000 MHz Temp 1 [T1 OBN] -5.67 dBm 5.65096000 GHz Temp 2 [T1 OBN] -5.67 dBm 5.68856000 GHz Center 5.67 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 15:31:39

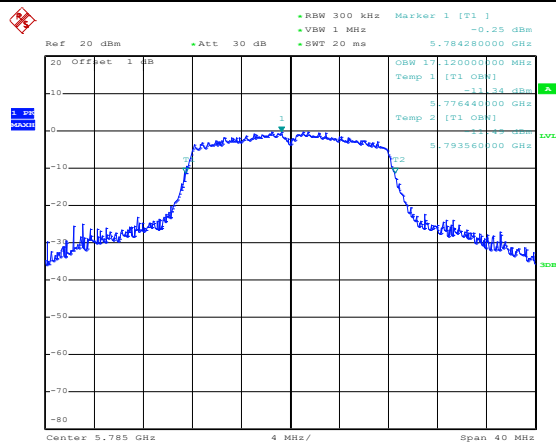
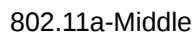
802.11ac-VHT40-Low	 Ref 20 dBm • Att 30 dB • RBW 1 MHz • VSW 3 MHz • SWT 20 ms • Marker 1 [T1] 4.02 dBm 5.506960000 GHz 20 Offset 1 dB OSW 37.120000000 MHz Temp 1 [T1] 0dBm Temp 2 [T1] 0dBm 5.491280000 GHz 5.528400000 GHz Center 5.51 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 15:32:28
802.11ac-VHT40-Middle	 Ref 20 dBm • Att 30 dB • RBW 1 MHz • VSW 3 MHz • SWT 20 ms • Marker 1 [T1] 2.58 dBm 5.588080000 GHz 20 Offset 1 dB OSW 37.120000000 MHz Temp 1 [T1] 0dBm Temp 2 [T1] 0dBm 5.571280000 GHz 5.608400000 GHz Center 5.59 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 15:32:55
802.11ac-VHT40-High	 Ref 20 dBm • Att 30 dB • RBW 1 MHz • VSW 3 MHz • SWT 20 ms • Marker 1 [T1] 1.03 dBm 5.673200000 GHz 20 Offset 1 dB OSW 37.120000000 MHz Temp 1 [T1] 0dBm Temp 2 [T1] 0dBm 5.651280000 GHz 5.688400000 GHz Center 5.67 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 15:33:19

802.11ac-VHT80-Low	 Date: 10.SEP.2023 15:34:36
802.11ac-VHT80-High	 Date: 10.SEP.2023 15:35:04

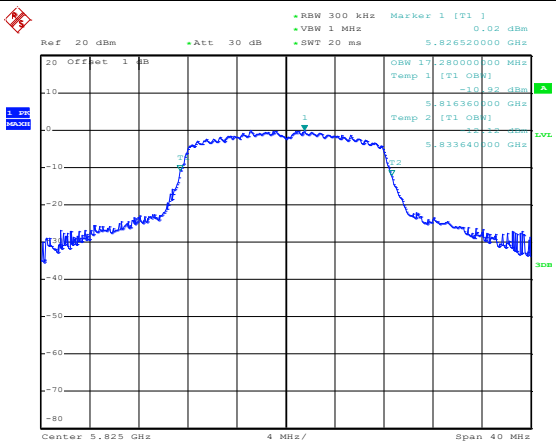
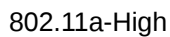
5725-5850MHz



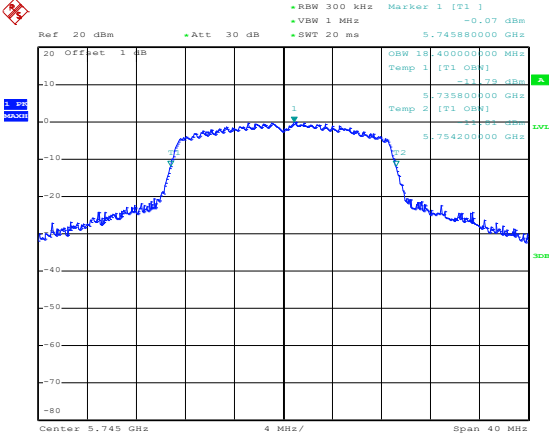
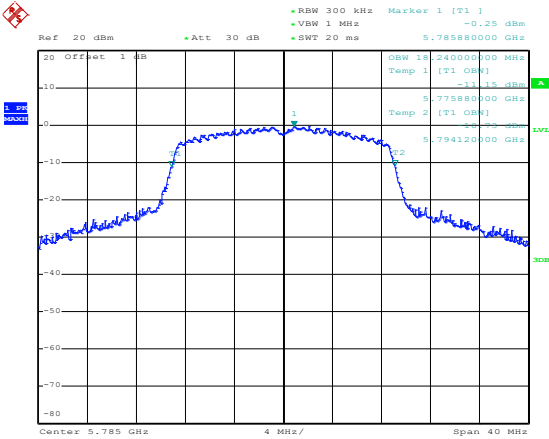
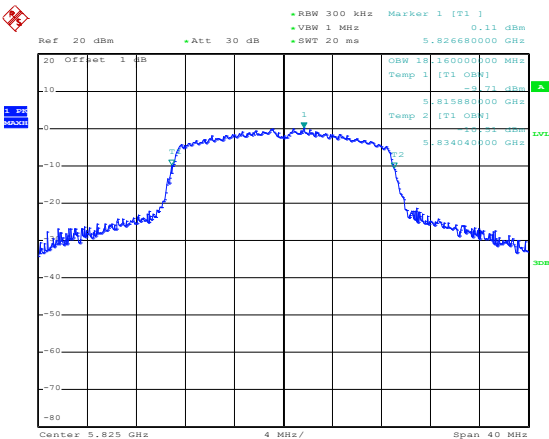
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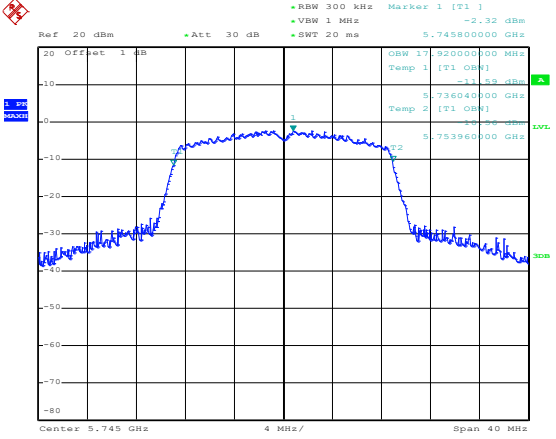
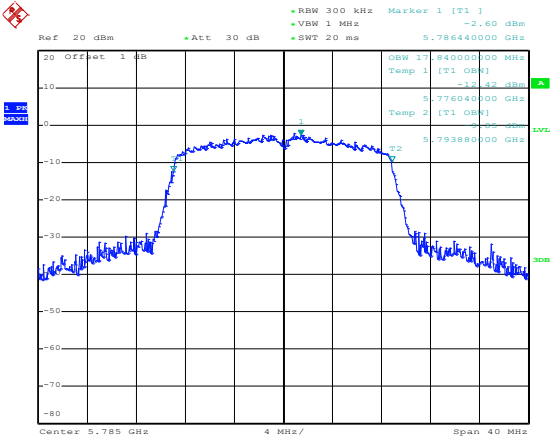
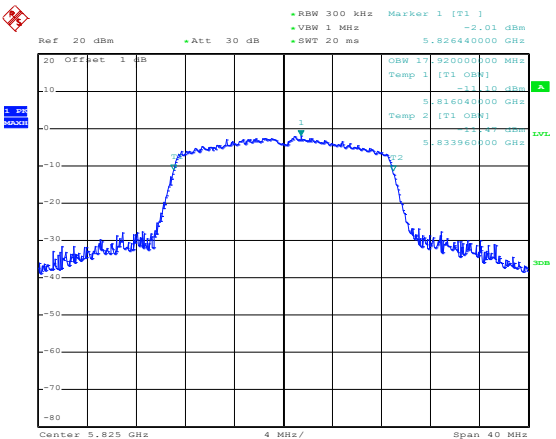


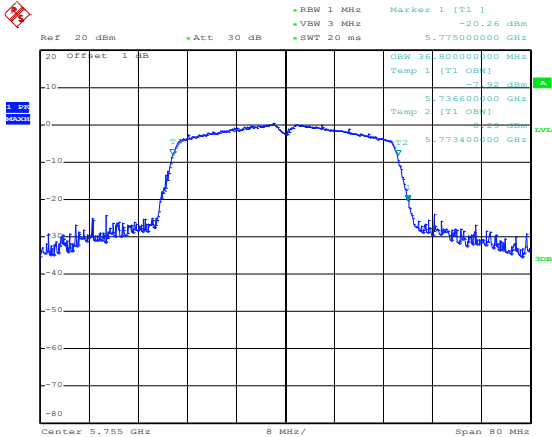
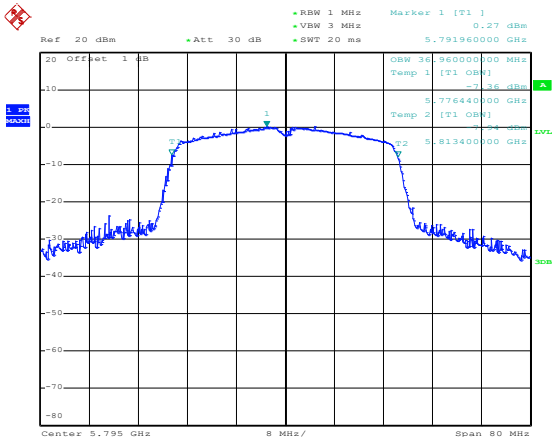
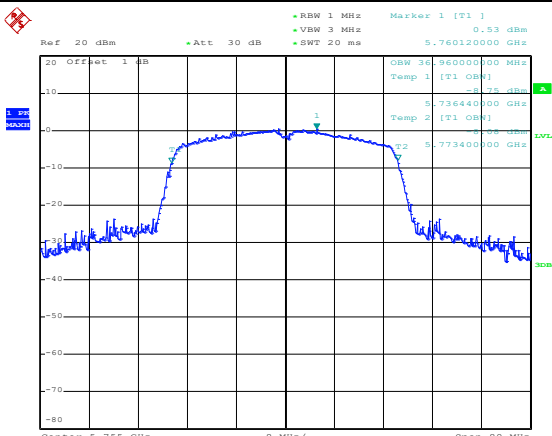
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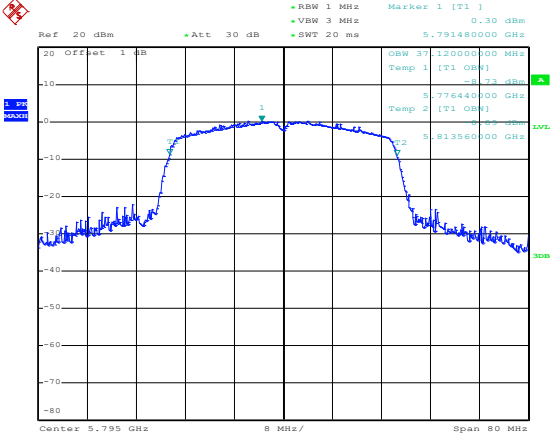
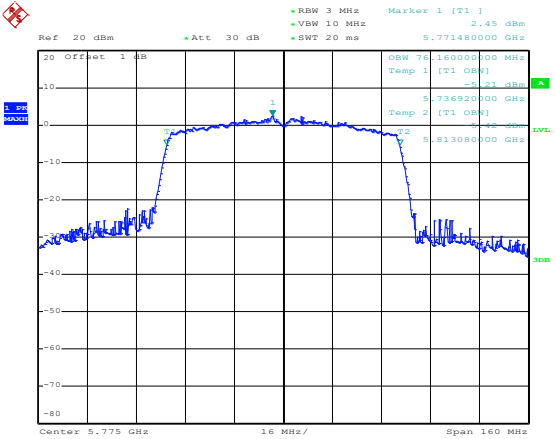


Date: 10.SEP.2023 16:25:40

802.11n-HT20-Low	 Ref 20 dBm • Att 30 dB • RBW 300 kHz Marker 1 [T1] -0.07 dBm • VSW 1 MHz • SWT 20 ms 5.745880000 GHz <table><tr><td>OSW 18.40000000 MHz</td><td>Temp 1 [T1] 0.00 dBm</td></tr><tr><td>Temp 2 [T1] 0.00 dBm</td><td>5.735800000 GHz</td></tr><tr><td>Temp 3 [T1] 0.00 dBm</td><td>5.754200000 GHz</td></tr></table> Center 5.745 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 16:26:42	OSW 18.40000000 MHz	Temp 1 [T1] 0.00 dBm	Temp 2 [T1] 0.00 dBm	5.735800000 GHz	Temp 3 [T1] 0.00 dBm	5.754200000 GHz
OSW 18.40000000 MHz	Temp 1 [T1] 0.00 dBm						
Temp 2 [T1] 0.00 dBm	5.735800000 GHz						
Temp 3 [T1] 0.00 dBm	5.754200000 GHz						
802.11n-HT20-Middle	 Ref 20 dBm • Att 30 dB • RBW 300 kHz Marker 1 [T1] -0.25 dBm • VSW 1 MHz • SWT 20 ms 5.785880000 GHz <table><tr><td>OSW 18.24000000 MHz</td><td>Temp 1 [T1] 0.00 dBm</td></tr><tr><td>Temp 2 [T1] 0.00 dBm</td><td>5.775880000 GHz</td></tr><tr><td>Temp 3 [T1] 0.00 dBm</td><td>5.794120000 GHz</td></tr></table> Center 5.785 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 16:27:29	OSW 18.24000000 MHz	Temp 1 [T1] 0.00 dBm	Temp 2 [T1] 0.00 dBm	5.775880000 GHz	Temp 3 [T1] 0.00 dBm	5.794120000 GHz
OSW 18.24000000 MHz	Temp 1 [T1] 0.00 dBm						
Temp 2 [T1] 0.00 dBm	5.775880000 GHz						
Temp 3 [T1] 0.00 dBm	5.794120000 GHz						
802.11n-HT20-High	 Ref 20 dBm • Att 30 dB • RBW 300 kHz Marker 1 [T1] 0.11 dBm • VSW 1 MHz • SWT 20 ms 5.826680000 GHz <table><tr><td>OSW 18.16000000 MHz</td><td>Temp 1 [T1] 0.00 dBm</td></tr><tr><td>Temp 2 [T1] 0.00 dBm</td><td>5.815880000 GHz</td></tr><tr><td>Temp 3 [T1] 0.00 dBm</td><td>5.834040000 GHz</td></tr></table> Center 5.825 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 16:27:55	OSW 18.16000000 MHz	Temp 1 [T1] 0.00 dBm	Temp 2 [T1] 0.00 dBm	5.815880000 GHz	Temp 3 [T1] 0.00 dBm	5.834040000 GHz
OSW 18.16000000 MHz	Temp 1 [T1] 0.00 dBm						
Temp 2 [T1] 0.00 dBm	5.815880000 GHz						
Temp 3 [T1] 0.00 dBm	5.834040000 GHz						

802.11ac-VHT20-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -2.32 dBm VSW 1 MHz SWT 20 ms 5.745800000 GHz OSW 17.920000000 MHz Temp 1 [T1] OSW -11.53 dBm 5.736040000 GHz Temp 2 [T1] OSW -11.53 dBm 5.753960000 GHz Center 5.745 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 16:29:01
802.11ac-VHT20-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -2.60 dBm VSW 1 MHz SWT 20 ms 5.786440000 GHz OSW 17.840000000 MHz Temp 1 [T1] OSW -12.42 dBm 5.776040000 GHz Temp 2 [T1] OSW -12.42 dBm 5.793880000 GHz Center 5.785 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 16:29:25
802.11ac-VHT20-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -2.01 dBm VSW 1 MHz SWT 20 ms 5.826440000 GHz OSW 17.920000000 MHz Temp 1 [T1] OSW -11.10 dBm 5.816040000 GHz Temp 2 [T1] OSW -11.10 dBm 5.833960000 GHz Center 5.825 GHz 4 MHz/ Span 40 MHz Date: 10.SEP.2023 16:29:51

802.11n-HT40-Low	 Ref 20 dBm Att 30 dB RBW 1 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] -20.26 dBm 5.775000000 GHz 20 Offset 1 dB OSW 30.800000000 MHz Temp 1 [T1] -20.26 dBm 5.736600000 GHz Temp 2 [T1] -20.26 dBm 5.773400000 GHz Center 5.755 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 16:30:24
802.11n-HT40-High	 Ref 20 dBm Att 30 dB RBW 1 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] 0.27 dBm 5.791960000 GHz 20 Offset 1 dB OSW 30.800000000 MHz Temp 1 [T1] -7.36 dBm 5.776440000 GHz Temp 2 [T1] -7.36 dBm 5.813400000 GHz Center 5.795 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 16:30:54
802.11ac-VHT40-Low	 Ref 20 dBm Att 30 dB RBW 1 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] 0.53 dBm 5.760120000 GHz 20 Offset 1 dB OSW 30.800000000 MHz Temp 1 [T1] -8.75 dBm 5.736440000 GHz Temp 2 [T1] -8.75 dBm 5.773400000 GHz Center 5.755 GHz 8 MHz/ Span 80 MHz Date: 10.SEP.2023 16:32:00

802.11ac-VHT40-High	 Date: 10.SEP.2023 16:32:41
802.11ac-VHT80-Low	 Date: 10.SEP.2023 16:34:44

APPENDIX C

Maximum Conducted Output Power

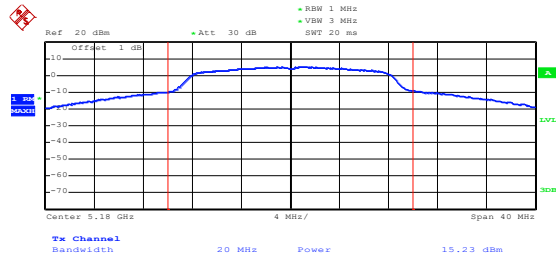
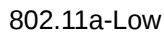
U-NII-1:5150-5250MHz			
Test mode	Frequency MHz	Output Power dBm	Limit dBm
802.11a	5180	15.23	23.98
	5200	15.17	23.98
	5240	14.06	23.98
802.11n-HT20	5180	12.96	23.98
	5200	13.11	23.98
	5240	13.67	23.98
802.11ac-VHT20	5180	12.65	23.98
	5200	12.71	23.98
	5240	13.33	23.98
802.11n-HT40	5190	12.82	23.98
	5230	12.51	23.98
802.11ac-VHT40	5190	12.81	23.98
	5230	12.42	23.98
802.11ac-VHT80	5210	12.05	23.98

U-NII-2A: 5250-5350MHz			
Test mode	Frequency MHz	Output Power dBm	Limit dBm
802.11a	5260	13.06	23.98
	5280	13.24	23.98
	5320	13.23	23.98
802.11n-HT20	5260	12.93	23.98
	5280	13.14	23.98
	5320	13.23	23.98
802.11ac-VHT20	5260	12.08	23.98
	5280	12.34	23.98
	5320	13.07	23.98
802.11n-HT40	5270	12.15	23.98
	5310	12.17	23.98
802.11ac-VHT40	5270	12.09	23.98
	5310	12.35	23.98
802.11ac-VHT80	5290	11.22	23.98

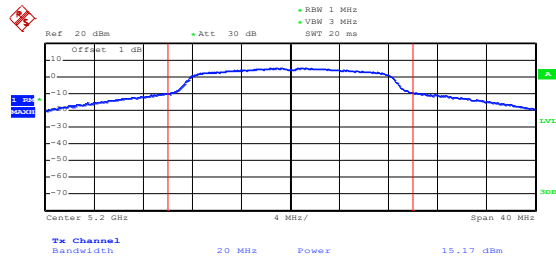
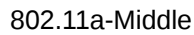
U-NII-2C: 5470-5725MHz			
Test mode	Frequency MHz	Output Power dBm	Limit dBm
802.11a	5500	11.76	23.98
	5600	11.23	23.98
	5700	10.38	23.98
802.11n-HT20	5500	11.53	23.98
	5600	10.99	23.98
	5700	11.41	23.98
802.11ac-VHT20	5500	11.66	23.98
	5600	11.02	23.98
	5700	10.38	23.98
802.11n-HT40	5510	10.34	23.98
	5590	10.87	23.98
	5670	10.18	23.98
802.11ac-VHT40	5510	11.22	23.98
	5590	10.47	23.98
	5670	10.10	23.98
802.11ac-VHT80	5530	11.06	23.98

U-NII-3: 5725-5850MHz			
Test mode	Frequency MHz	Output Power dBm	Limit dBm
802.11a	5745	11.11	30.00
	5785	11.12	30.00
	5825	11.12	30.00
802.11n-HT20	5745	11.04	30.00
	5785	10.94	30.00
	5825	11.09	30.00
802.11ac-VHT20	5745	11.13	30.00
	5785	11.09	30.00
	5825	10.75	30.00
802.11n-HT40	5755	10.95	30.00
	5795	10.60	30.00
802.11ac-VHT40	5755	10.89	30.00
	5795	10.95	30.00
802.11ac-VHT80	5775	10.82	30.00

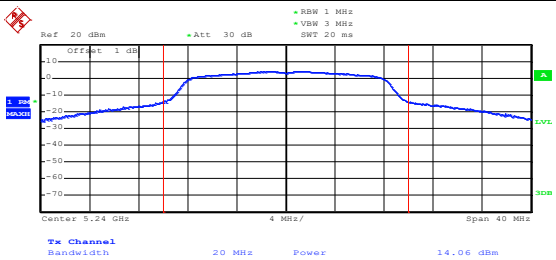
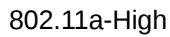
5150-5250MHz



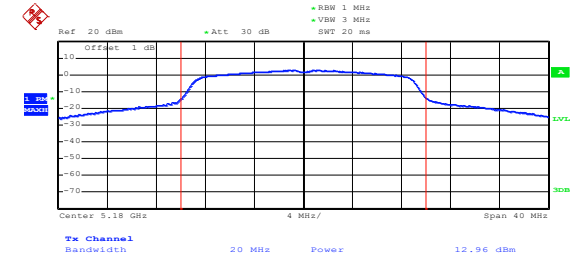
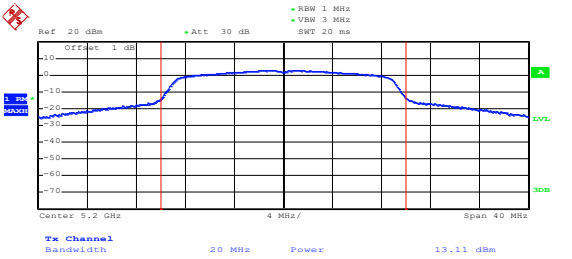
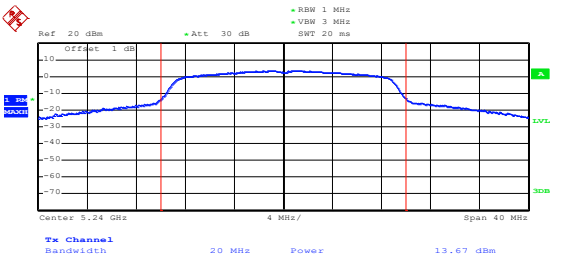
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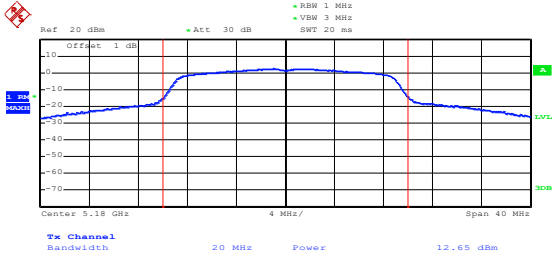
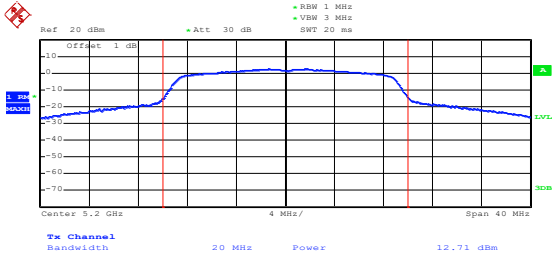
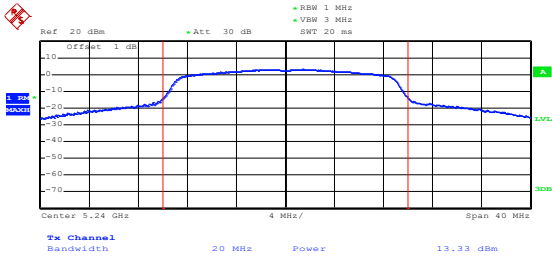


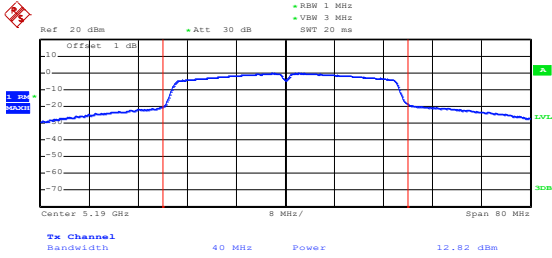
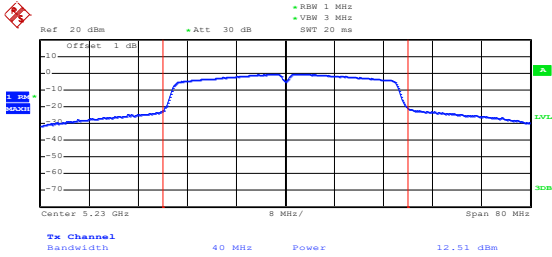
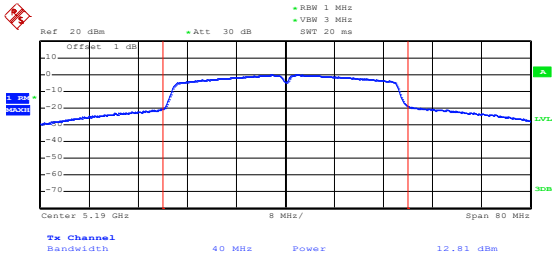
Date: 10.SEP.2023 13:41:11



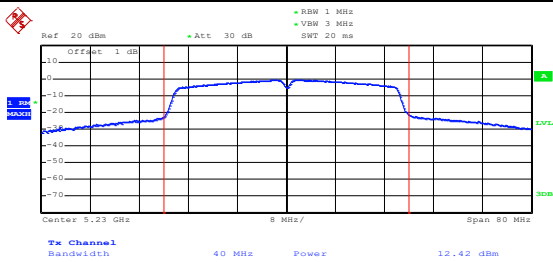
Date: 10.SEP.2023 13:41:36

802.11n-HT20-Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.18 GHz Span: 40 MHz Tx Channel Bandwidth: 20 MHz Power: 12.96 dBm Date: 10.SEP.2023 13:43:47
802.11n-HT20-Middle	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.2 GHz Span: 40 MHz Tx Channel Bandwidth: 20 MHz Power: 13.11 dBm Date: 10.SEP.2023 13:44:09
802.11n-HT20-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.24 GHz Span: 40 MHz Tx Channel Bandwidth: 20 MHz Power: 13.67 dBm Date: 10.SEP.2023 13:44:28

802.11ac-VHT20-Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.18 GHz Span: 40 MHz 4 MHz/ Tx Channel Bandwidth: 20 MHz Power: 12.65 dBm Date: 10.SEP.2023 13:45:08
802.11ac-VHT20-Middle	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.2 GHz Span: 40 MHz 4 MHz/ Tx Channel Bandwidth: 20 MHz Power: 12.71 dBm Date: 10.SEP.2023 13:45:27
802.11ac-VHT20-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.24 GHz Span: 40 MHz 4 MHz/ Tx Channel Bandwidth: 20 MHz Power: 13.33 dBm Date: 10.SEP.2023 13:45:49

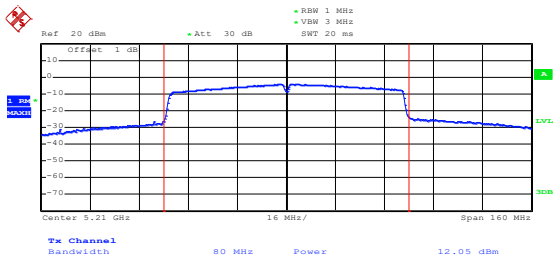
802.11n-HT40-Low	 Date: 10.SEP.2023 13:46:59
802.11n-HT40-High	 Date: 10.SEP.2023 13:47:20
802.11ac-VHT40-Low	 Date: 10.SEP.2023 13:47:43

802.11ac-VHT40-High



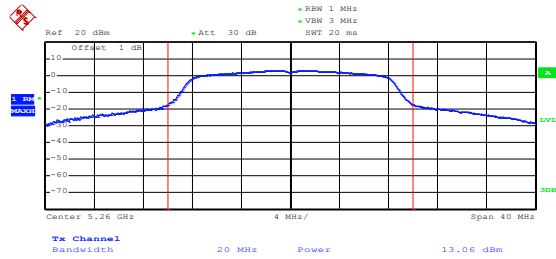
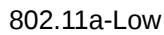
Date: 10.SEP.2023 13:47:59

802.11ac-VHT80-Low

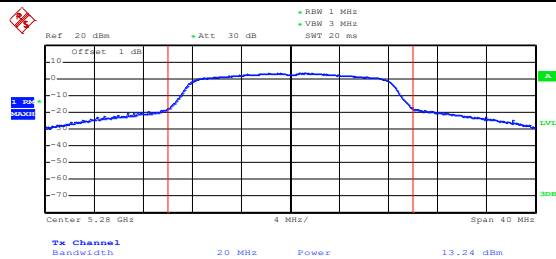
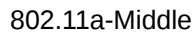


Date: 10.SEP.2023 13:48:29

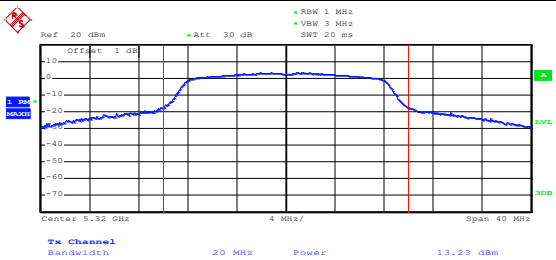
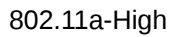
5250-5350MHz



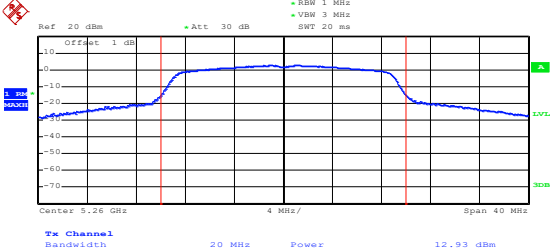
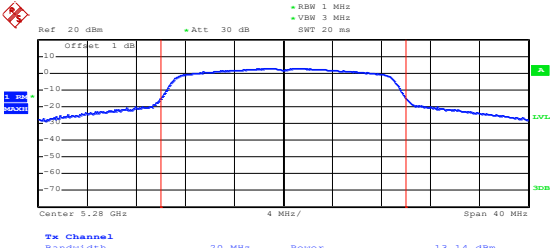
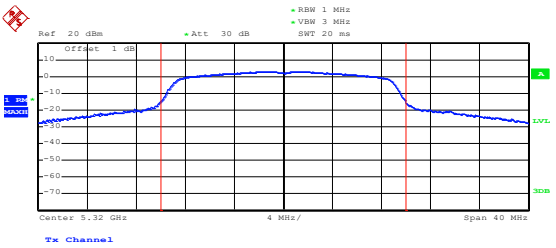
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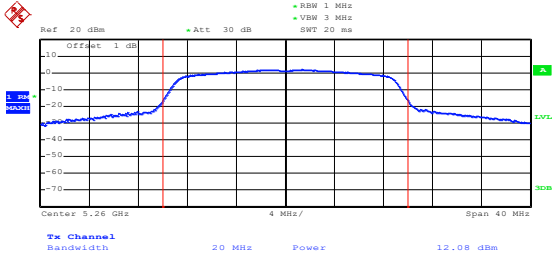
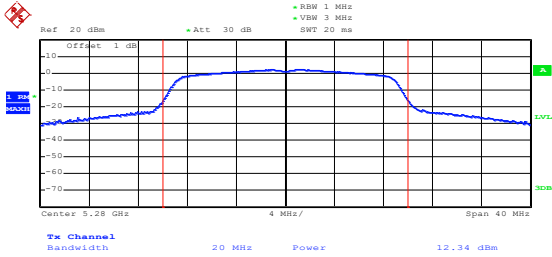
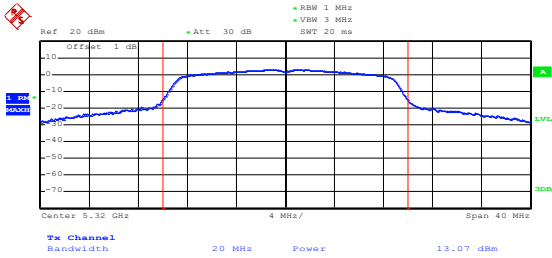


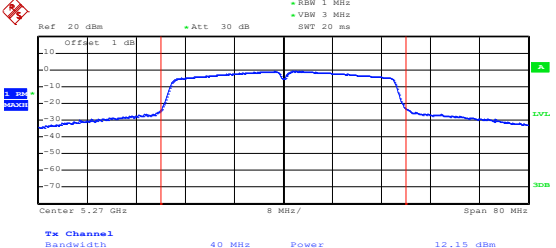
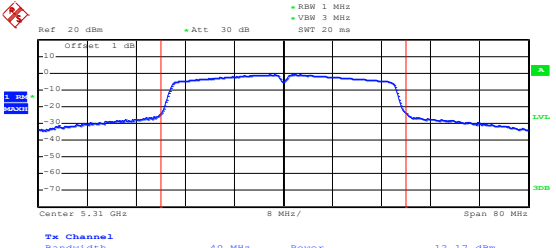
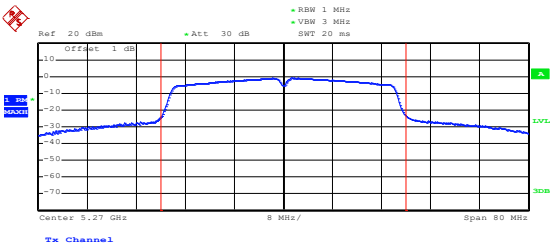
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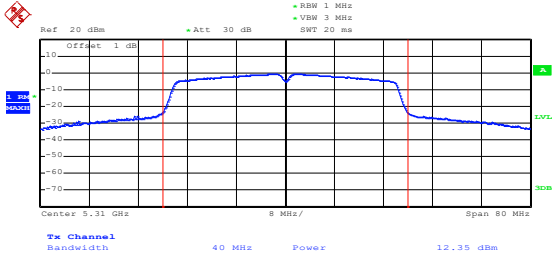
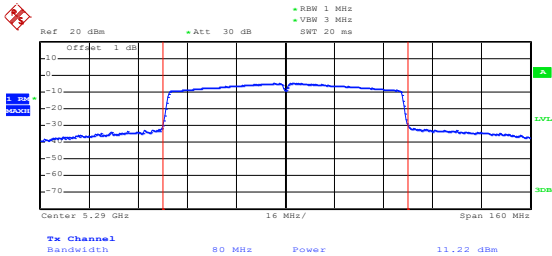


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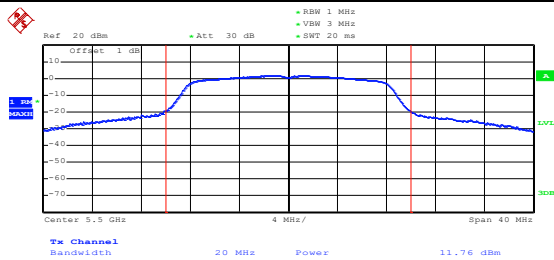
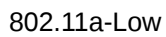
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802.11n-HT20-Middle	 Date: 10.SEP.2023 14:27:46
802.11n-HT20-High	 Date: 10.SEP.2023 14:28:09

802.11ac-VHT20-Low	 Date: 10.SEP.2023 14:28:49
802.11ac-VHT20-Middle	 Date: 10.SEP.2023 14:29:07
802.11ac-VHT20-High	 Date: 10.SEP.2023 14:29:33

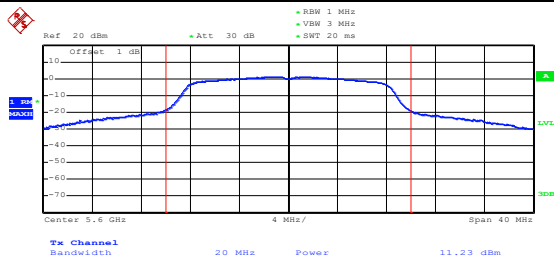
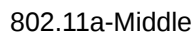
802.11n-HT40-Low	 Date: 10.SEP.2023 14:30:07
802.11n-HT40-High	 Date: 10.SEP.2023 14:30:32
802.11ac-VHT40-Low	 Date: 10.SEP.2023 14:30:52

802.11ac-VHT40-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: 12.35 dBm Date: 10.SEP.2023 14:31:19
802.11ac-VHT80-Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.29 GHz Span: 160 MHz Tx Channel Bandwidth: 80 MHz Power: 11.22 dBm Date: 10.SEP.2023 14:31:51

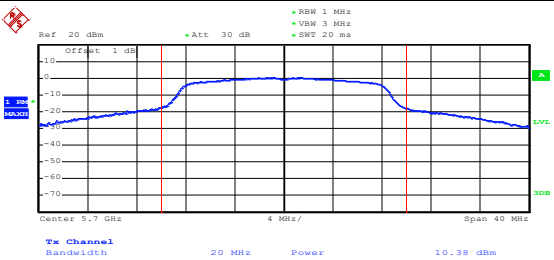
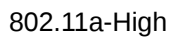
5470-5725MHz



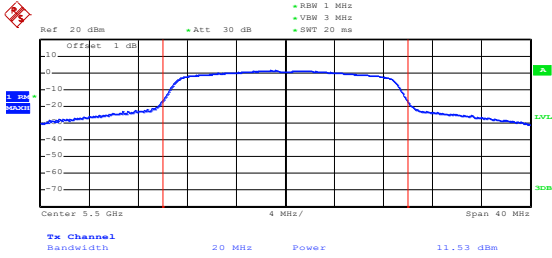
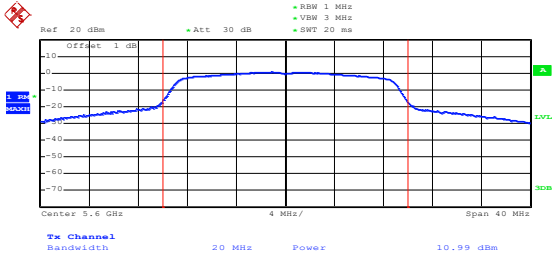
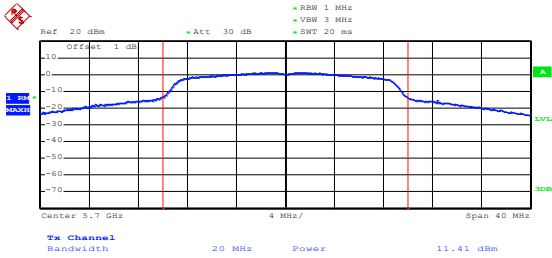
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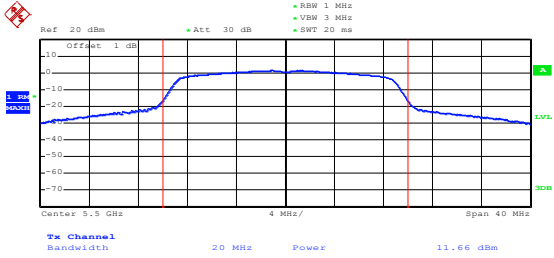
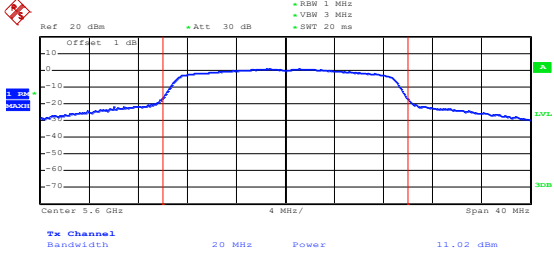
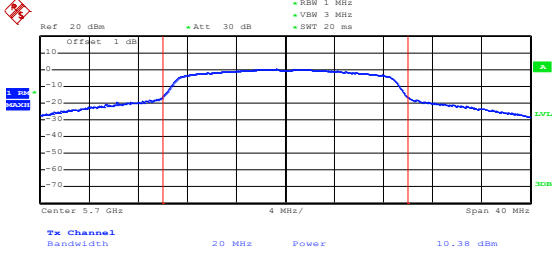


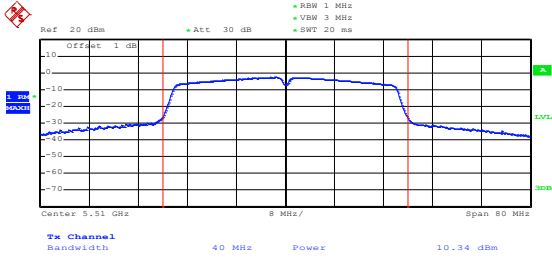
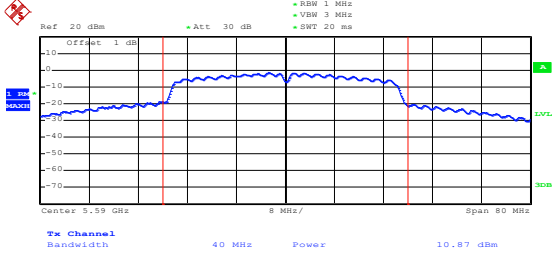
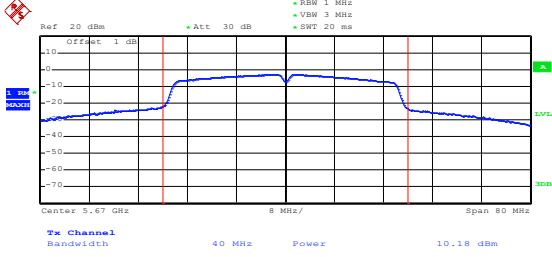
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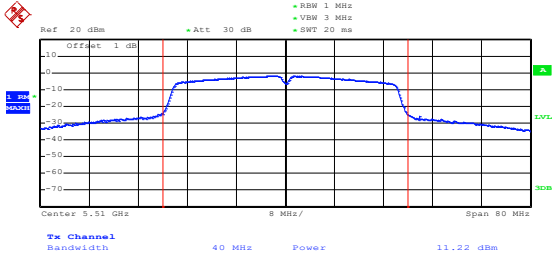
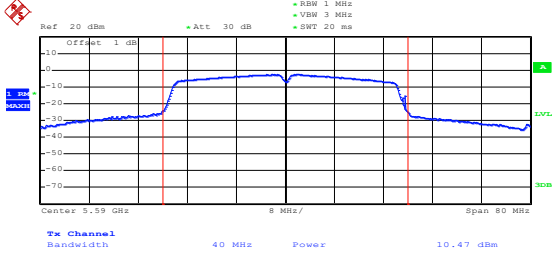
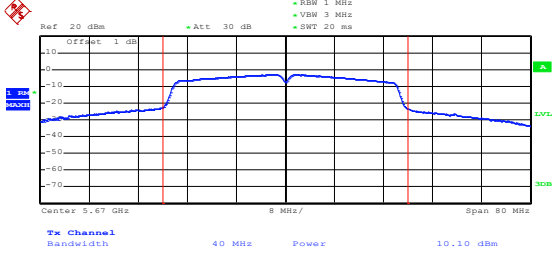


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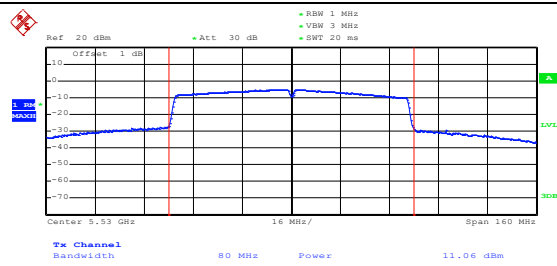
802.11n-HT20-Low	 Date: 10.SEP.2023 15:00:26
802.11n-HT20-Middle	 Date: 10.SEP.2023 15:00:45
802.11n-HT20-High	 Date: 10.SEP.2023 15:01:21

802.11ac-VHT20-Low	 Date: 10.SEP.2023 15:02:20
802.11ac-VHT20-Middle	 Date: 10.SEP.2023 15:02:36
802.11ac-VHT20-High	 Date: 10.SEP.2023 15:03:04

802.11n-HT40-Low	 Date: 10.SEP.2023 15:04:22
802.11n-HT40- Middle	 Date: 10.SEP.2023 15:05:24
802.11n-HT40-High	 Date: 10.SEP.2023 15:06:22

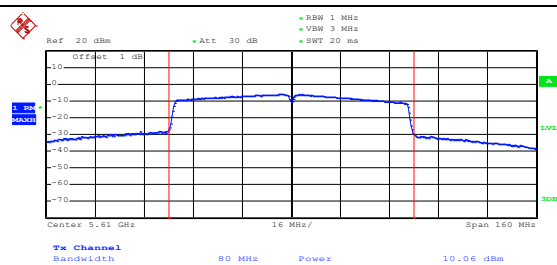
802.11ac-VHT40-Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.51 GHz Span: 80 MHz Tx Channel Bandwidth: 40 MHz Power: 11.22 dBm Date: 10.SEP.2023 15:07:22
802.11ac-VHT40-Middle	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.59 GHz Span: 80 MHz Tx Channel Bandwidth: 40 MHz Power: 10.47 dBm Date: 10.SEP.2023 15:08:42
802.11ac-VHT40-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.67 GHz Span: 80 MHz Tx Channel Bandwidth: 40 MHz Power: 10.10 dBm Date: 10.SEP.2023 15:10:06

802.11ac-VHT80-Low



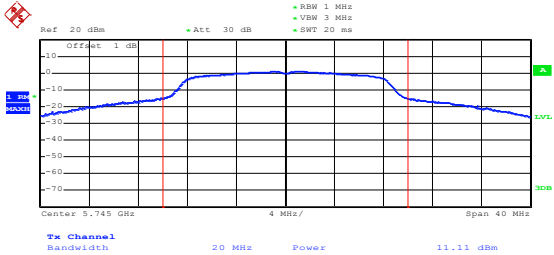
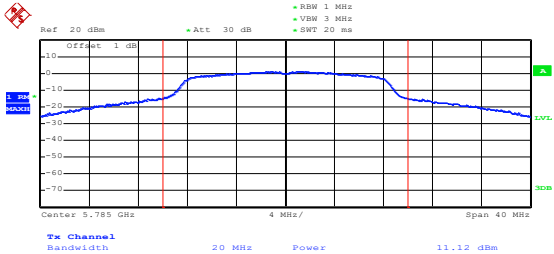
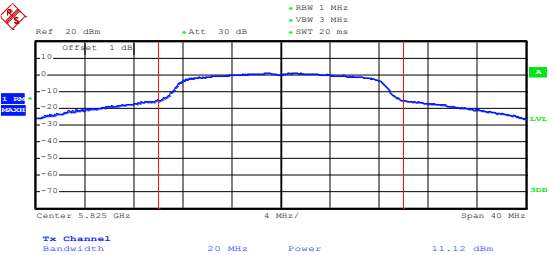
Date: 10.SEP.2023 15:10:54

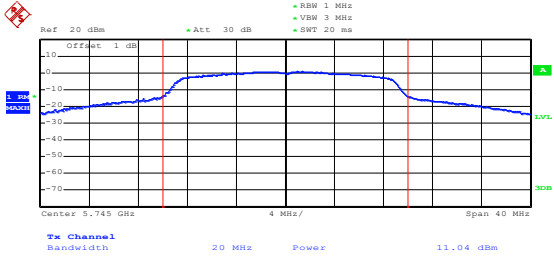
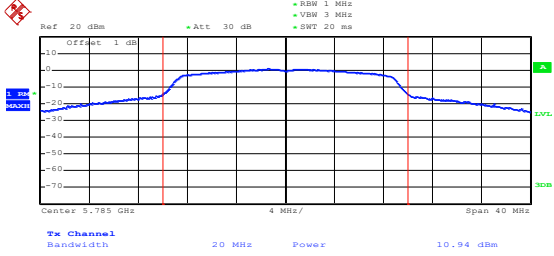
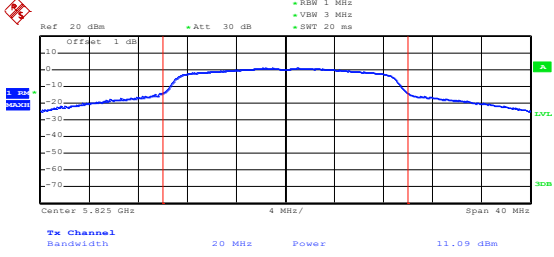
802.11ac-VHT80-High

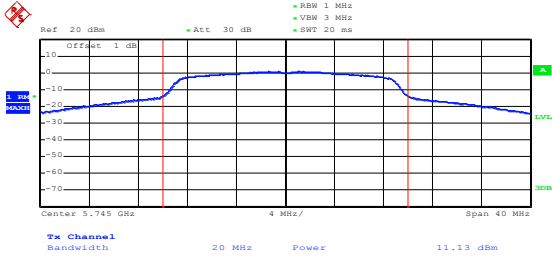
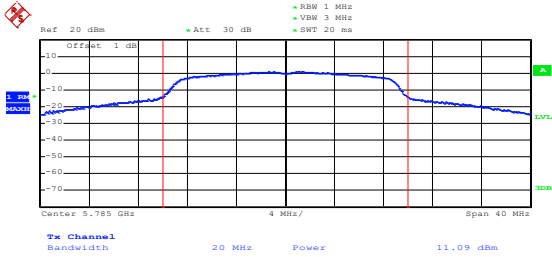
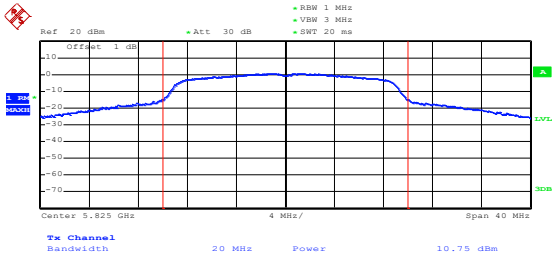


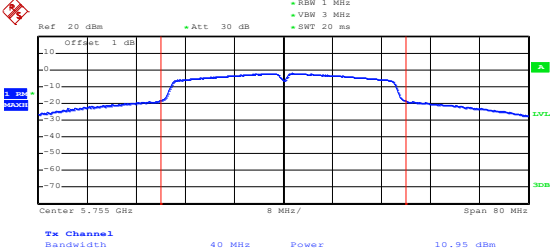
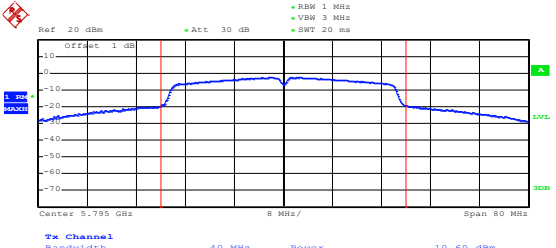
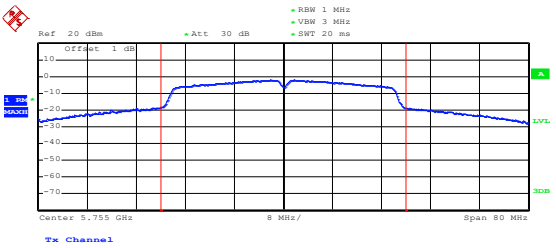
Date: 10.SEP.2023 15:11:13

5725-5850MHz

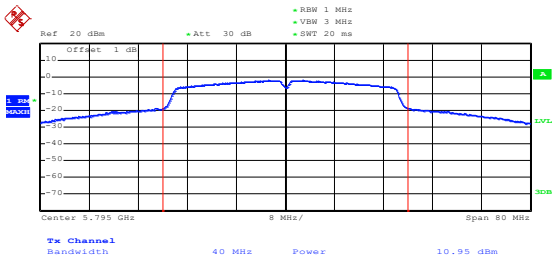
802.11a-Low	 Date: 10.SEP.2023 16:05:02
802.11a-Middle	 Date: 10.SEP.2023 16:05:14
802.11a-High	 Date: 10.SEP.2023 16:05:43

802.11n-HT20-Low	 Date: 10.SEP.2023 16:06:00
802.11n-HT20-Middle	 Date: 10.SEP.2023 16:06:15
802.11n-HT20-High	 Date: 10.SEP.2023 16:07:01

802.11ac-VHT20-Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.745 GHz Span: 40 MHz Ts Channel Bandwidth: 20 MHz Power: 11.13 dBm Date: 10.SEP.2023 16:10:11
802.11ac-VHT20-Middle	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.785 GHz Span: 40 MHz Ts Channel Bandwidth: 20 MHz Power: 11.09 dBm Date: 10.SEP.2023 16:11:04
802.11ac-VHT20-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.825 GHz Span: 40 MHz Ts Channel Bandwidth: 20 MHz Power: 10.75 dBm Date: 10.SEP.2023 16:11:21

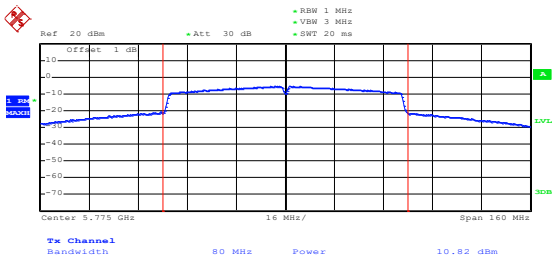
802.11n-HT40-Low	 Date: 10.SEP.2023 16:12:00
802.11n-HT40-High	 Date: 10.SEP.2023 16:12:33
802.11ac-VHT40-Low	 Date: 10.SEP.2023 16:12:53

802.11ac-VHT40-High



Date: 10.SEP.2023 16:13:19

802.11ac-VHT80-Low



Date: 10.SEP.2023 16:14:22

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%	3.85	-30	118	0.0227
100%		-20	125	0.0240
100%		-10	166	0.0319
100%		0	176	0.0338
100%		+10	120	0.0231
100%		+20	139	0.0267
100%		+30	164	0.0315
100%		+40	179	0.0344
100%		+50	174	0.0335
Low Battery power	3.5	+20	135	0.0260
High Battery power	4.4	+20	174	0.0335

U-NII-2A: 5250-5350MHz worst case at 802.11a middle channel				
Voltage(%)	Power(VDC)	TEMP(°C)	Freq.Dev(Hz)	Deviation
100%	3.85	-30	157	0.0296
100%		-20	176	0.0332
100%		-10	158	0.0298
100%		0	128	0.0242
100%		+10	134	0.0253
100%		+20	137	0.0258
100%		+30	172	0.0325
100%		+40	105	0.0198
100%		+50	120	0.0226
Low Battery power	3.5	+20	143	0.0270
High Battery power	4.4	+20	136	0.0257

U-NII-2C: 5470-5725MHz worst case at 802.11a middle channel				
Voltage(%)	Power(VDC)	TEMP(°C)	Freq.Dev(Hz)	Deviation
100%	3.85	-30	134	0.0240
100%		-20	161	0.0289
100%		-10	176	0.0315
100%		0	136	0.0244
100%		+10	171	0.0306
100%		+20	148	0.0265
100%		+30	109	0.0195
100%		+40	106	0.0190
100%		+50	139	0.0249
Low Battery power	3.5	+20	172	0.0308
High Battery power	4.4	+20	160	0.0287

U-NII-3:5725-5850MHz worst case at 802.11a middle channel				
Voltage(%)	Power(VDC)	TEMP(°C)	Freq.Dev(Hz)	Deviation
100%	3.85	-30	145	0.0251
100%		-20	167	0.0289
100%		-10	138	0.0239
100%		0	164	0.0283
100%		+10	160	0.0277
100%		+20	118	0.0204
100%		+30	175	0.0303
100%		+40	172	0.0297
100%		+50	113	0.0195
Low Battery power	3.5	+20	124	0.0214
High Battery power	4.4	+20	111	0.0192

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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