

TEST REPORT

Reference No..... : WTX22X12264635W004
FCC ID : 2A96I-UA100
Applicant : Shanghai UniOne Science&Technology CO., Ltd.
Address..... : Building 4, No.651 Wanfang Road, Pujiang Town, Minhang District, Shanghai
Manufacturer : The same as Applicant
Address..... : The same as Applicant
Product Name : Rugged Android Tablet
Model No..... : UA100 (Scan)
Standards : FCC Part 15.407
Date of Receipt sample : 2022-12-30
Date of Test..... : 2022-12-30 to 2023-05-09
Date of Issue : 2023-05-09
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:

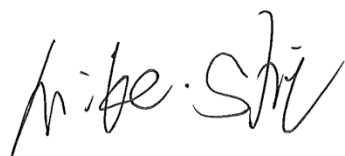
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Report version

Version No.	Date of issue	Description
Rev.00	2023-05-09	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Rugged Android Tablet
Trade Name:	/
Model No.:	UA100 (Scan)
Adding Model(s):	UA100(Standard)
Rated Voltage:	DC3.8V
Battery:	9200mAh
Adapter Model:	/
Software Version:	R00.50.A6.53
Hardware Version:	V1.04
<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 UA100 (Scan), 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-VHTT80
Frequency Range:	5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz
RF Output Power:	5150-5250MHz: Antenna 1: 14.00dBm (Conducted) Antenna 2: 13.80dBm (Conducted) 5250-5350MHz: Antenna 1: 12.38dBm (Conducted) Antenna 2: 11.61dBm (Conducted) 5470-5725MHz: Antenna 1: 11.71dBm (Conducted) Antenna 2: 12.61dBm (Conducted) 5725-5850MHz: Antenna 1: 10.97dBm (Conducted) Antenna 2: 11.53dBm (Conducted)
Type of Modulation:	QPSK, 16QAM, 64QAM,256QAM
Type of Antenna:	FPC Antenna
Antenna Gain:	Antenna 1:2.95dBi Antenna 2:-0.49dBi
<i>Note: The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.407: General technical requirements.

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

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

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

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

1.3 Test Methodology

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

1.4 Table for parameters of Test Software setting

Use “QRCT3.exe” and follow the instructions given by the manufacturer, you can start to test. During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Mode	Test Frequency (MHz)											
	NCB: 20MHz											
	5180	5200	5240	5260	5280	5320	5500	5580	5700	5745	5785	5825
802.11a 6Mbps	16	16	16	16	16	16	16	16	16	16	16	16
802.11n-HT20 MCS0	16	16	16	16	16	16	16	16	16	16	16	16
Mode	NCB: 40MHz											
	5190	5230	5270	5310	5510	5550	5670	5710	5755	5795		
802.11n-HT40 MCS0	15	15	15	15	15	15	15	15	15	15	15	15
Mode	NCB: 80MHz											
	5210		5290		5530		5610		5690		5775	
802.11ac-VHT80 MCS0/Nss2	14		14		14		14		14		14	

1.5 EUT Operating during test

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

1.6 Test Facility

Address of the test laboratory

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

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

FCC – Registration No.: 125990

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

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

1.7 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11a	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz,5580MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM2	802.11n-HT20	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz,5580MHz,5700MHz,5745MHz, 5785MHz,5825MHz
TM3	802.11n-HT40	5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5550MHz,5670MHz,5755MHz,5795MHz
TM4	802.11ac-VHT80	5210MHz,5290MHz,5530MHz,5610MHz,5775MHz
Note1 : All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report; 802.11ac-VHT20, 802.11ac-VHT40 covered by 802.11n-HT20 and 802.11n-HT40. Note 2: The 5GHz WIFI has two antennas and support Multiple Outputs for 802.11n/ac mode for this report; Antenna 1 Gain is 2.95dBi; Antenna 2 Gain is -0.49dB According to KDB 662911, Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi =4.41dBi		

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
/	/	/	/

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Type-C Cable	1.0	Shielded	With Ferrite

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Computer	Lenovo	L13 Yoga	/
Adapter	/	ASUC71w-050912300	/

1.8 Measurement Uncertainty

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

1.9 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2022-03-22	2023-03-21
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2022-03-22	2023-03-21
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2022-03-25	2023-03-24
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2022-03-22	2023-03-21
SMET-1313	Spectrum Analyzer	Agilent	N9020A	MY54320548	2022-03-22	2023-03-21
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2022-03-22	2023-03-21
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2022-03-22	2023-03-21
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2022-03-22	2023-03-21
SEMT-1082	Power Divider	RF-Lambda	RFLT4W5M18G	14110400027	2022-03-22	2023-03-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	/	/
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	/	/
SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/
☒ Chamber A: Below 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-22	2023-03-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2022-01-07	2023-01-06
					2022-12-30	2023-12-29
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2023-03-19
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-20	2023-03-19
☒ Chamber A: Above 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-22	2023-03-21

SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2022-03-22	2023-03-21
SEMT-1042	Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2021-04-27	2023-04-26
SEMT-1216	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2022-03-25	2023-03-24
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2022-03-22	2023-03-21
☐ Chamber B:Below 1GHz						
SEMT-1068	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2023-04-08
SEMT-1067	Amplifier	Agilent	8447D	2944A10179	2022-03-22	2023-03-21
SEMT-1066	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2022-03-22	2023-03-21
☐ Chamber C:Below 1GHz						
SEMT-1319	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2022-01-07	2023-01-06
					2022-12-30	2023-12-29
SEMT-1343	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2023-05-27
SEMT-1333	Amplifier	HP	8447F	2944A03869	2022-03-22	2023-03-21
☒ Conducted Room 1#						
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2022-03-21	2023-03-20
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2022-03-25	2023-03-24
SEMT-1003	AC LISN	Schwarz beck	NSLK8126	8126-224	2022-03-22	2023-03-21
☐ Conducted Room 2#						
SEMT-1334	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2022-03-22	2023-03-21
SEMT-1336	LISN	Rohde & Schwarz	ENV 216	100097	2022-03-22	2023-03-21

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	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2023-02-25	2024-02-24

1001						
☐ 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
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
☒ 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 1003	LISN	Rohde & Schwarz	ENV 216	100097	2023-02-25	2024-02-24

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

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

2. SUMMARY OF TEST RESULTS

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

N/A: Not applicable.

3. Antenna Requirement

3.1 Standard Applicable

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

3.2 Evaluation Information

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

4. Automatically Discontinue Transmission

4.1 Standard Applicable

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

4.2 Summary of Test Results

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

5. Power Spectral Density

5.1 Standard Applicable

Section 15.407(a) Power limits:

(1) For the band 5.15-5.25GHz.

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

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

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

5.2 Test Procedure

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

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

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

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

5.3 Summary of Test Results/Plots

Please refer to Appendix A

6. Emission Bandwidth and Occupied Bandwidth

6.1 Standard Applicable

According to 15.407(a) and (e):

(1) For the band 5.15-5.25GHz.

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

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

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

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

6.2 Test Procedure

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

1. Emission Bandwidth (EBW)

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

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

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

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

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

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

D. 99 Percent Occupied Bandwidth

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

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

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

Reference No.: WTX22X12264635W004

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

6.3 Summary of Test Results/Plots

Please refer to Appendix B

7. Maximum Conducted Output Power

7.1 Standard Applicable

Section 15.407(a) Power limits:

(1) For the band 5.15-5.25GHz.

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

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

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

7.2 Test Procedure

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

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

narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

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

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

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

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

7.3 Summary of Test Results/Plots

Please refer to Appendix C

8. Radiated Spurious Emissions

8.1 Standard Applicable

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

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

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

According to §15.407(b)(7), The provisions of §15.205 apply to intentional radiators operating under this section.

789033 D02 v02r01 General UNII Test Procedures New Rules v01

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

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

where:

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

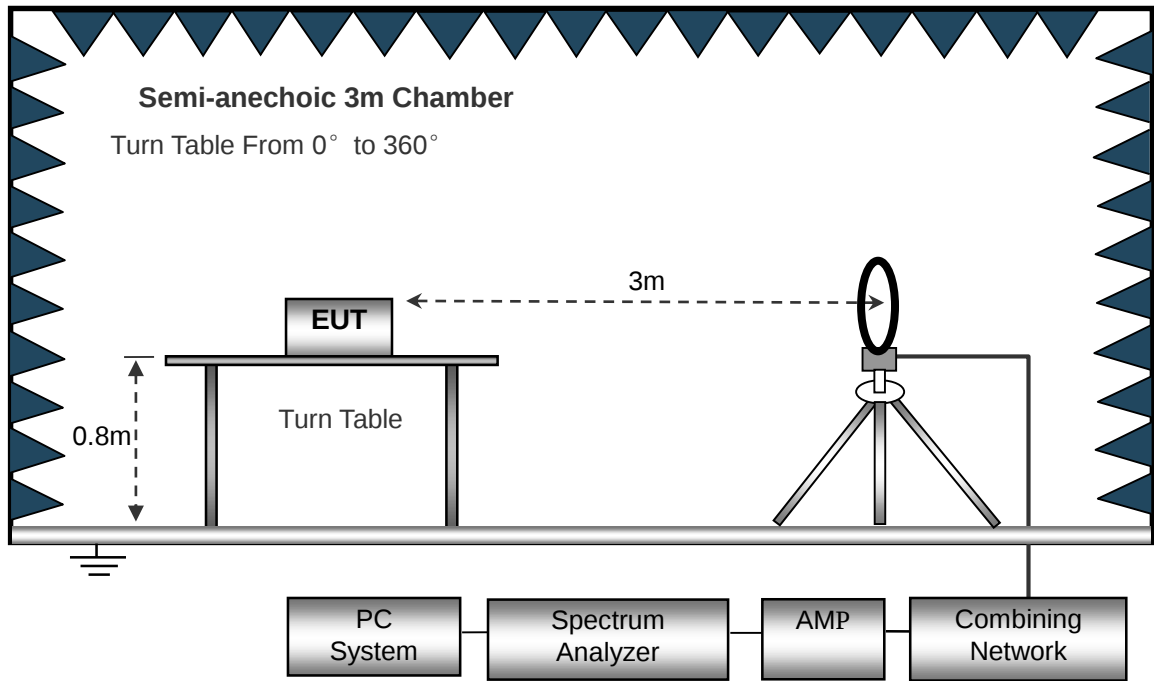
8.2 Test Procedure

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

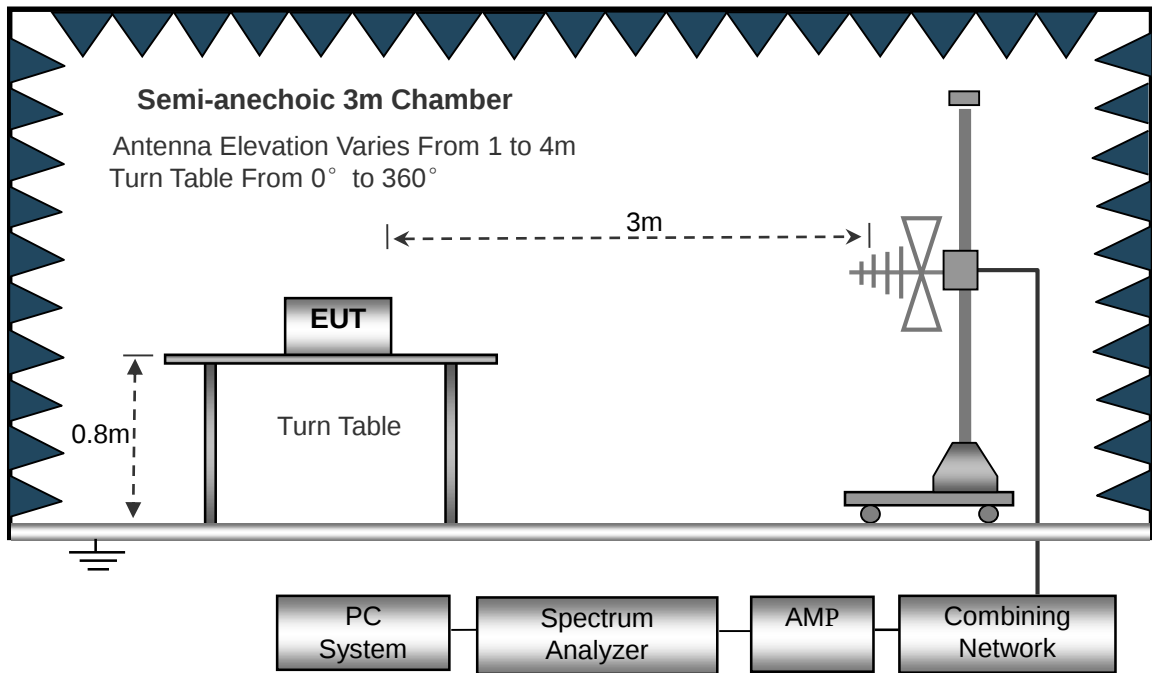
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

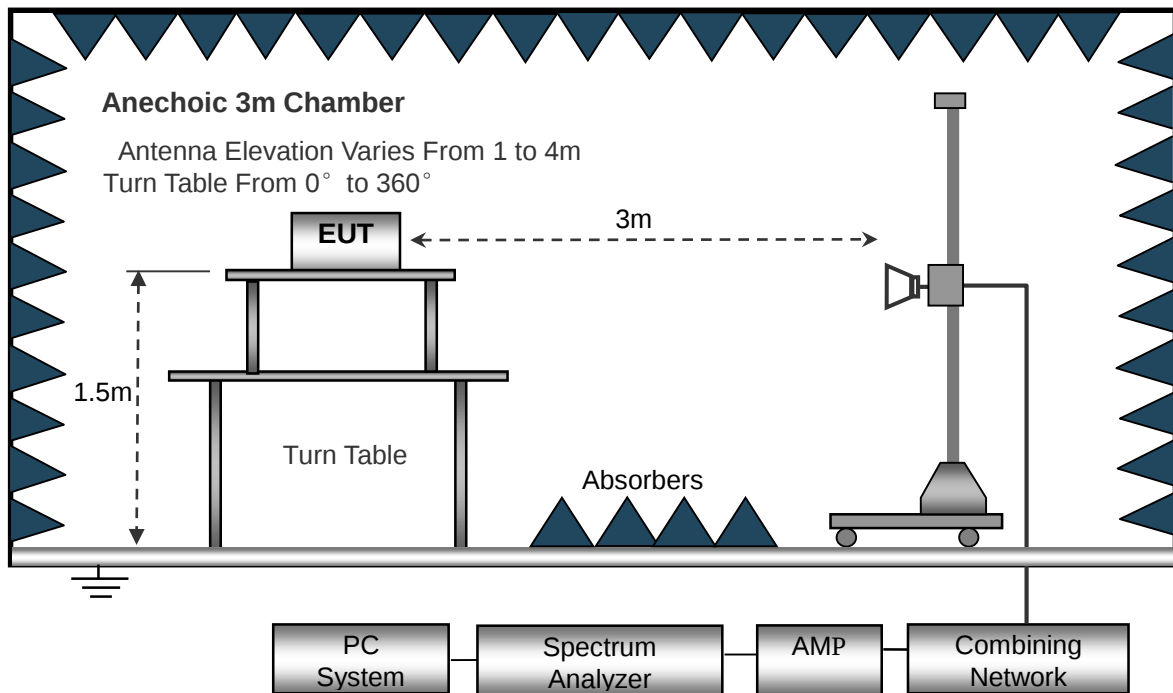
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1GHz.



8.3 Test Receiver Setup

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

For peak detector:

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

For average detector:

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

8.4 Corrected Amplitude & Margin Calculation

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

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

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

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

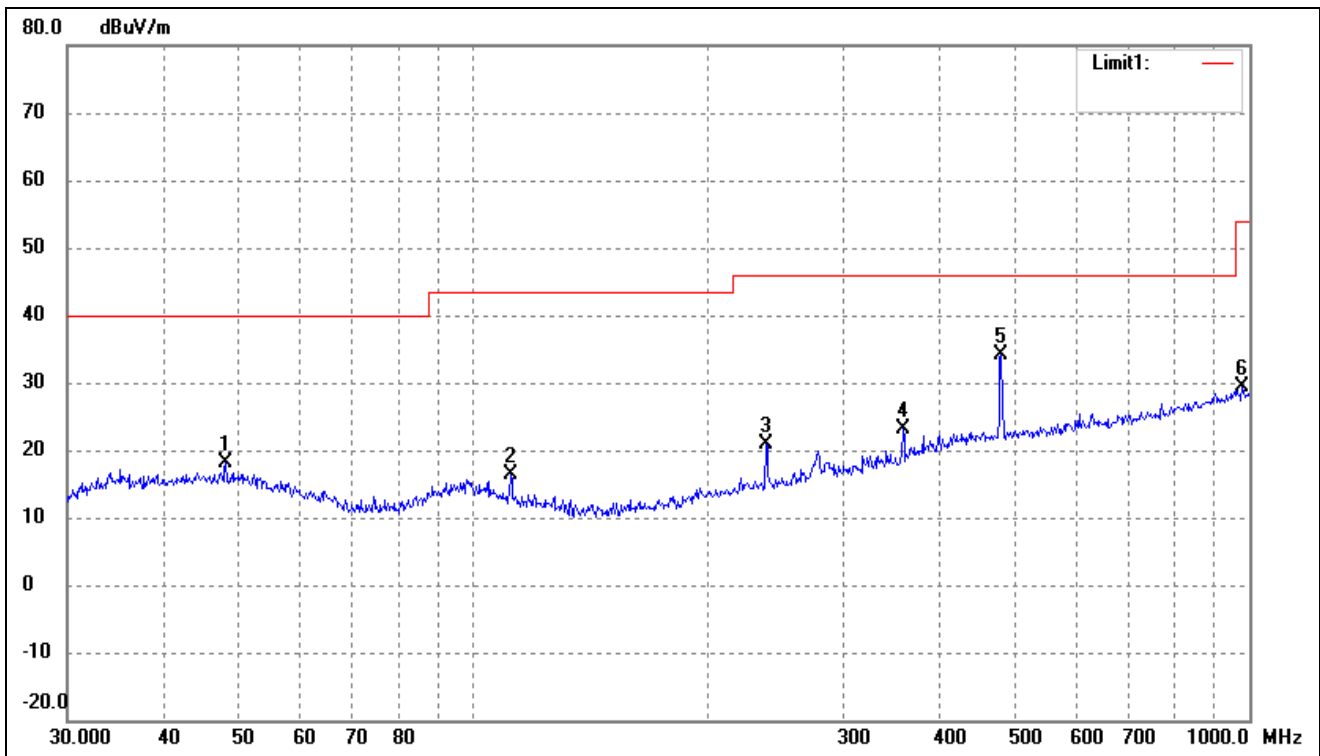
8.5 Summary of Test Results/Plots

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

- Spurious Emission From 30MHz to 1GHz
- Antenna 1(Worst case)
- 5150-5250MHz

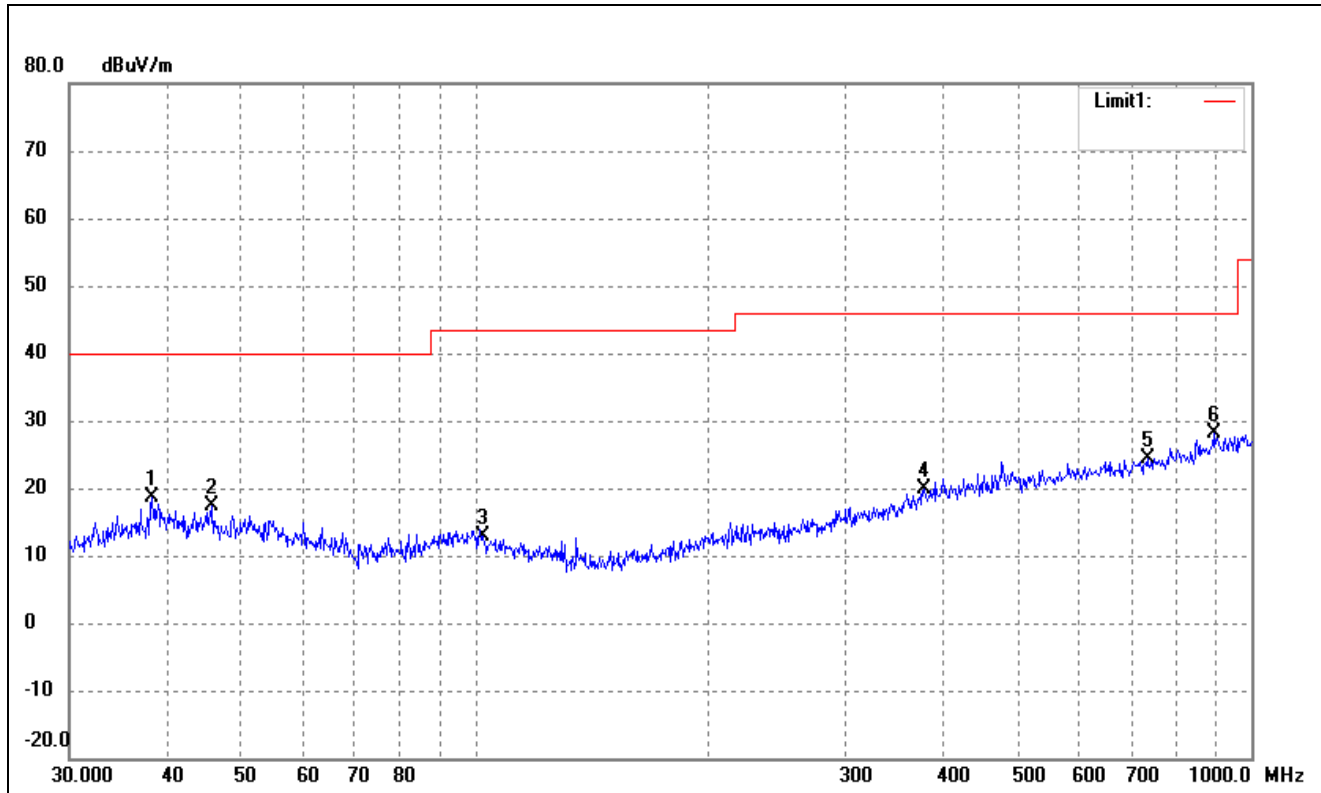
802.11a(Worst case)

Test Channel	5180MHz	Polarity:	Horizontal
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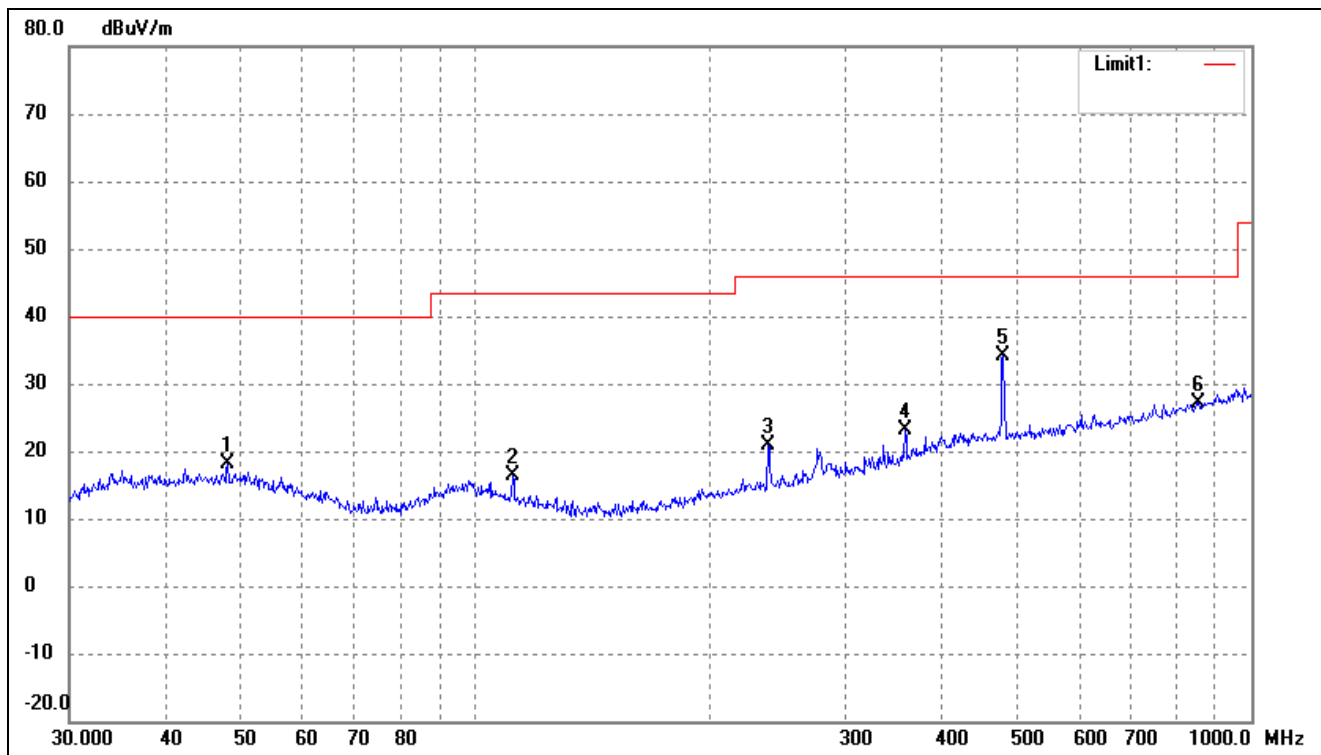
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	47.9940	29.13	-10.89	18.24	40.00	-21.76	-	-	peak
2	111.7380	29.21	-12.83	16.38	43.50	-27.12	-	-	peak
3	238.3102	32.14	-11.27	20.87	46.00	-25.13	-	-	peak
4	357.9287	30.68	-7.59	23.09	46.00	-22.91	-	-	peak
5	478.8456	39.25	-5.23	34.02	46.00	-11.98	-	-	peak
6	979.1804	28.19	1.21	29.40	54.00	-24.60	-	-	peak

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



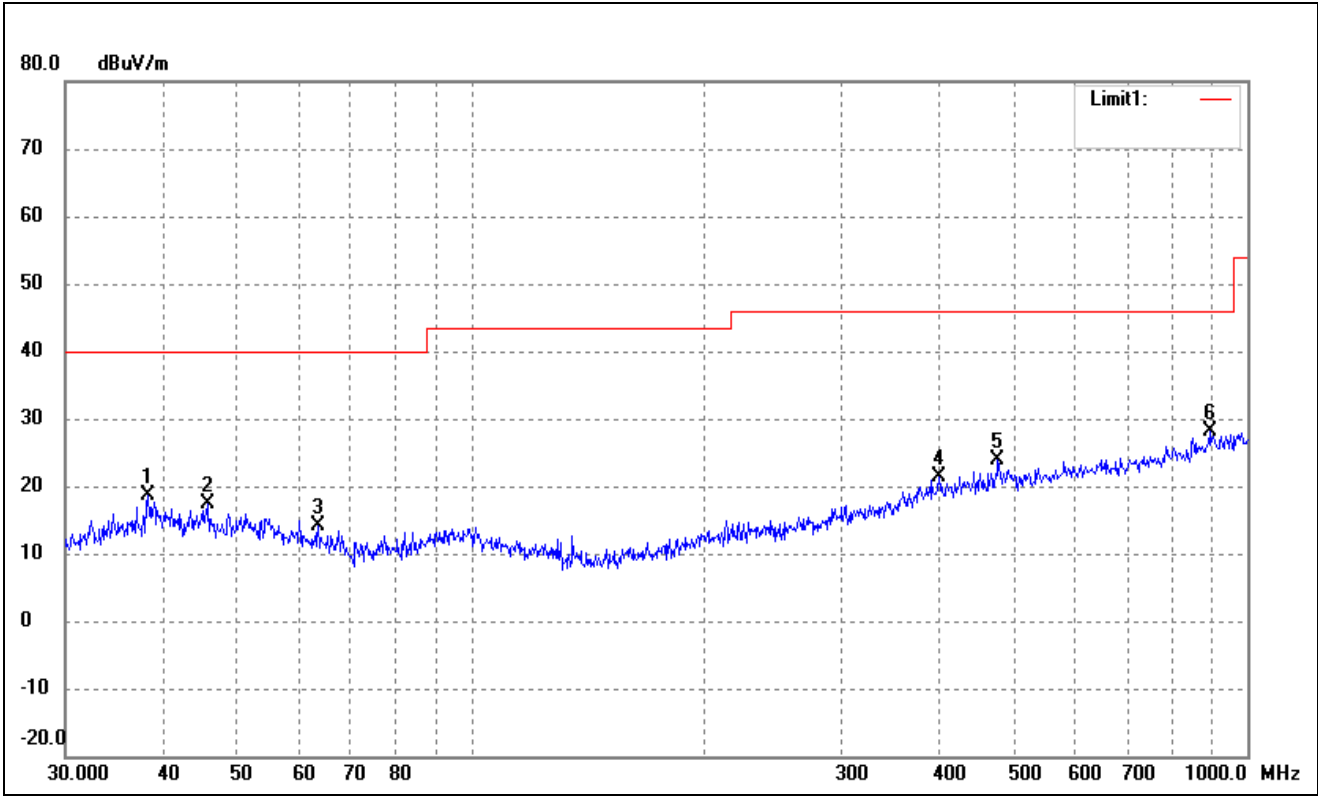
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	38.3462	29.90	-11.20	18.70	40.00	-21.30	-	-	peak
2	45.8553	28.27	-10.89	17.38	40.00	-22.62	-	-	peak
3	102.3597	25.08	-12.20	12.88	43.50	-30.62	-	-	peak
4	378.5843	26.83	-6.83	20.00	46.00	-26.00	-	-	peak
5	734.4913	26.83	-2.40	24.43	46.00	-21.57	-	-	peak
6	893.8567	27.86	0.37	28.23	46.00	-17.77	-	-	peak

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



No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	47.9940	29.13	-10.89	18.24	40.00	-21.76	-	-	peak
2	111.7380	29.21	-12.83	16.38	43.50	-27.12	-	-	peak
3	238.3102	32.14	-11.27	20.87	46.00	-25.13	-	-	peak
4	357.9287	30.68	-7.59	23.09	46.00	-22.91	-	-	peak
5	478.8456	39.25	-5.23	34.02	46.00	-11.98	-	-	peak
6	854.0247	27.59	-0.40	27.19	46.00	-18.81	-	-	peak

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

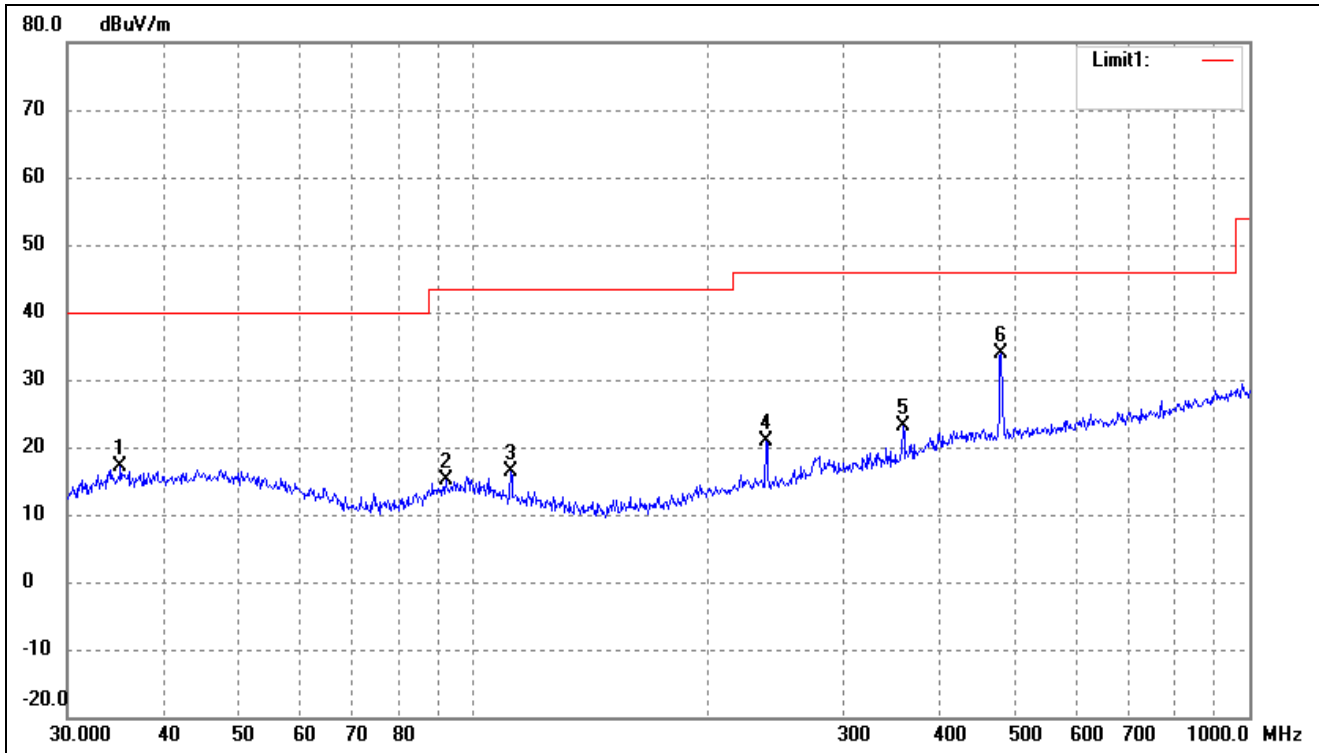


No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	38.3462	29.90	-11.20	18.70	40.00	-21.30	-	-	peak
2	45.8553	28.27	-10.89	17.38	40.00	-22.62	-	-	peak
3	63.5356	27.65	-13.63	14.02	40.00	-25.98	-	-	peak
4	400.4319	27.52	-6.24	21.28	46.00	-24.72	-	-	peak
5	477.1694	29.15	-5.26	23.89	46.00	-22.11	-	-	peak
6	893.8567	27.86	0.37	28.23	46.00	-17.77	-	-	peak

➤ 5250-5350MHz

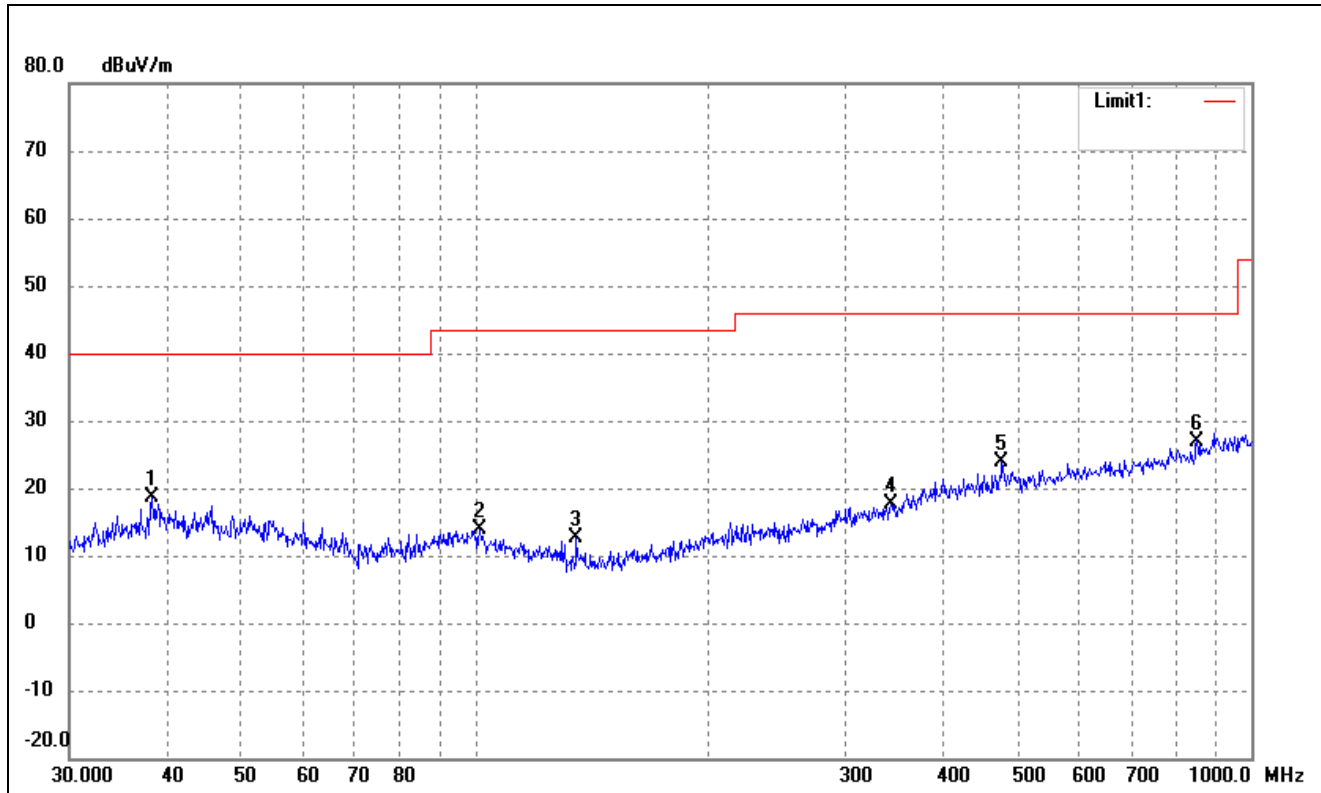
802.11a(Worst case)

Test Channel	5260MHz	Polarity:	Horizontal
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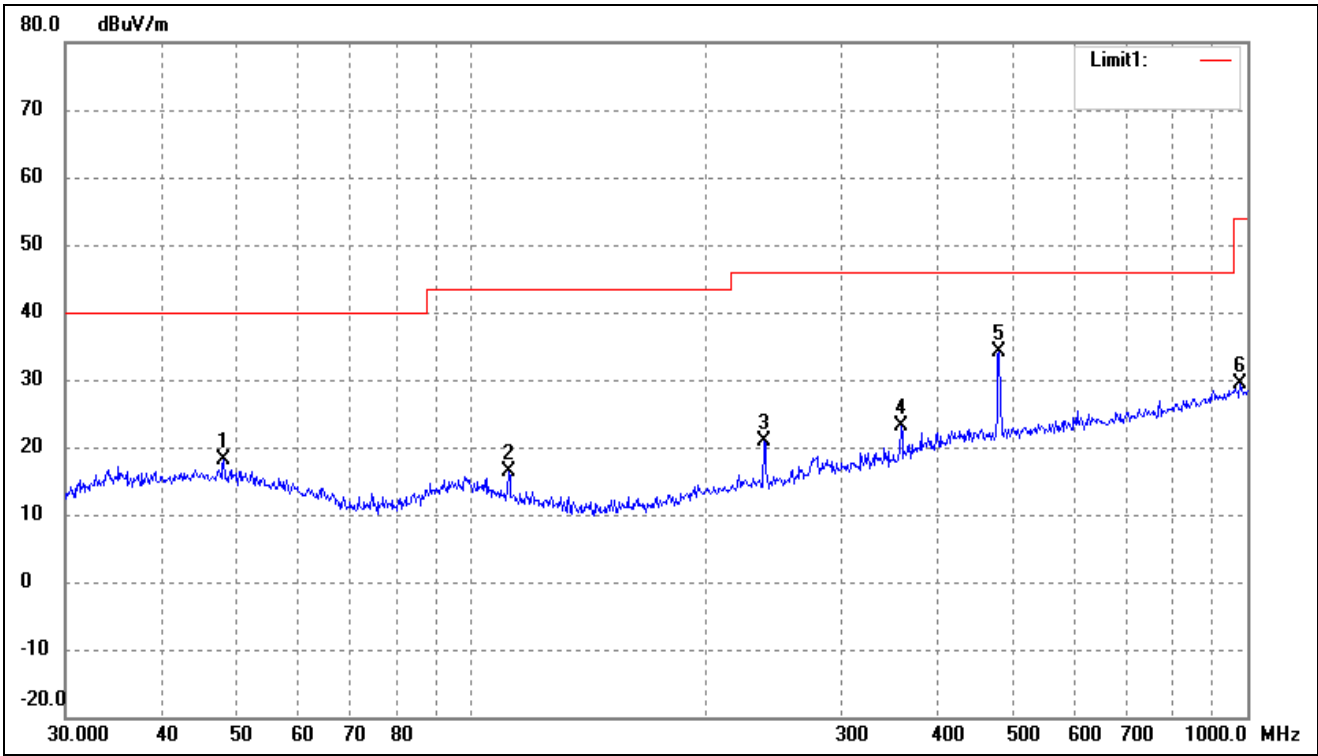
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	35.1278	28.80	-11.77	17.03	40.00	-22.97	-	-	peak
2	92.1388	27.72	-12.66	15.06	43.50	-28.44	-	-	peak
3	111.7380	29.21	-12.83	16.38	43.50	-27.12	-	-	peak
4	238.3102	32.14	-11.27	20.87	46.00	-25.13	-	-	peak
5	357.9287	30.68	-7.59	23.09	46.00	-22.91	-	-	peak
6	478.8456	39.20	-5.23	33.97	46.00	-12.03	-	-	peak

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



No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	38.3462	29.90	-11.20	18.70	40.00	-21.30	-	-	peak
2	101.2885	25.97	-12.15	13.82	43.50	-29.68	-	-	peak
3	135.0319	27.58	-14.99	12.59	43.50	-30.91	-	-	peak
4	343.1800	25.77	-8.12	17.65	46.00	-28.35	-	-	peak
5	477.1694	29.15	-5.26	23.89	46.00	-22.11	-	-	peak
6	851.0353	27.47	-0.47	27.00	46.00	-19.00	-	-	peak

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



No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	47.9940	29.13	-10.89	18.24	40.00	-21.76	-	-	peak
2	111.7380	29.21	-12.83	16.38	43.50	-27.12	-	-	peak
3	238.3102	32.14	-11.27	20.87	46.00	-25.13	-	-	peak
4	357.9287	30.68	-7.59	23.09	46.00	-22.91	-	-	peak
5	478.8456	39.25	-5.23	34.02	46.00	-11.98	-	-	peak
6	979.1804	28.19	1.21	29.40	54.00	-24.60	-	-	peak

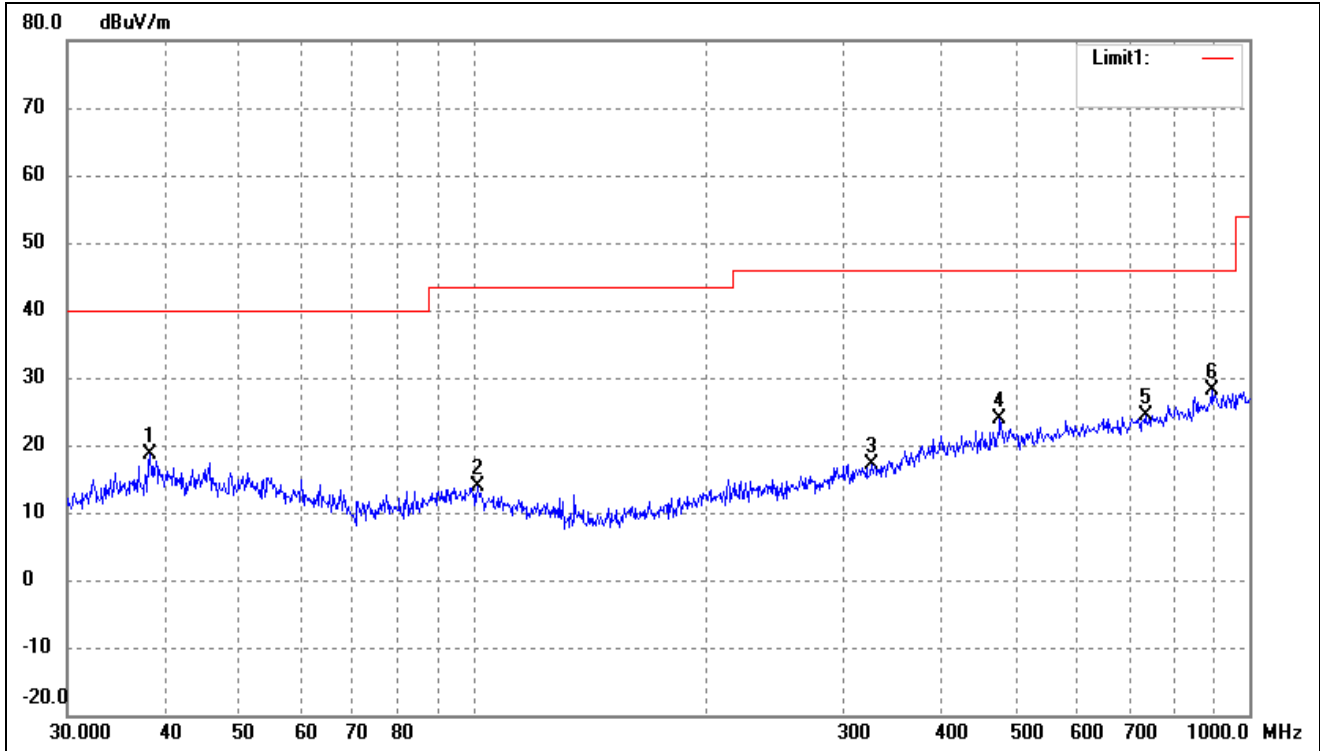
802.11a(Worst case)

Test Channel

5320MHz

Polarity:

Vertical

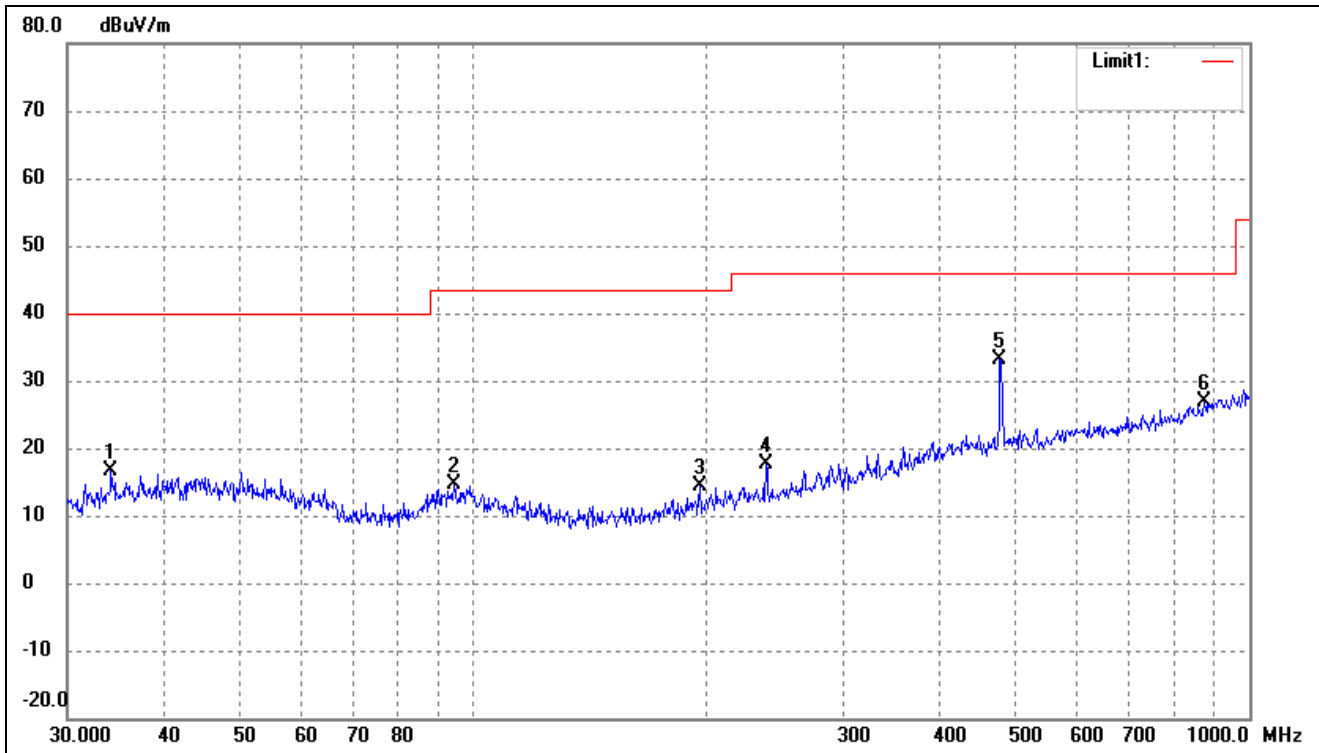


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.3462	29.90	-11.20	18.70	40.00	-21.30	-	-	peak
2	101.2885	25.97	-12.15	13.82	43.50	-29.68	-	-	peak
3	325.5958	25.66	-8.62	17.04	46.00	-28.96	-	-	peak
4	477.1694	29.15	-5.26	23.89	46.00	-22.11	-	-	peak
5	734.4913	26.83	-2.40	24.43	46.00	-21.57	-	-	peak
6	893.8567	27.86	0.37	28.23	46.00	-17.77	-	-	peak

➤ 5470-5725MHz

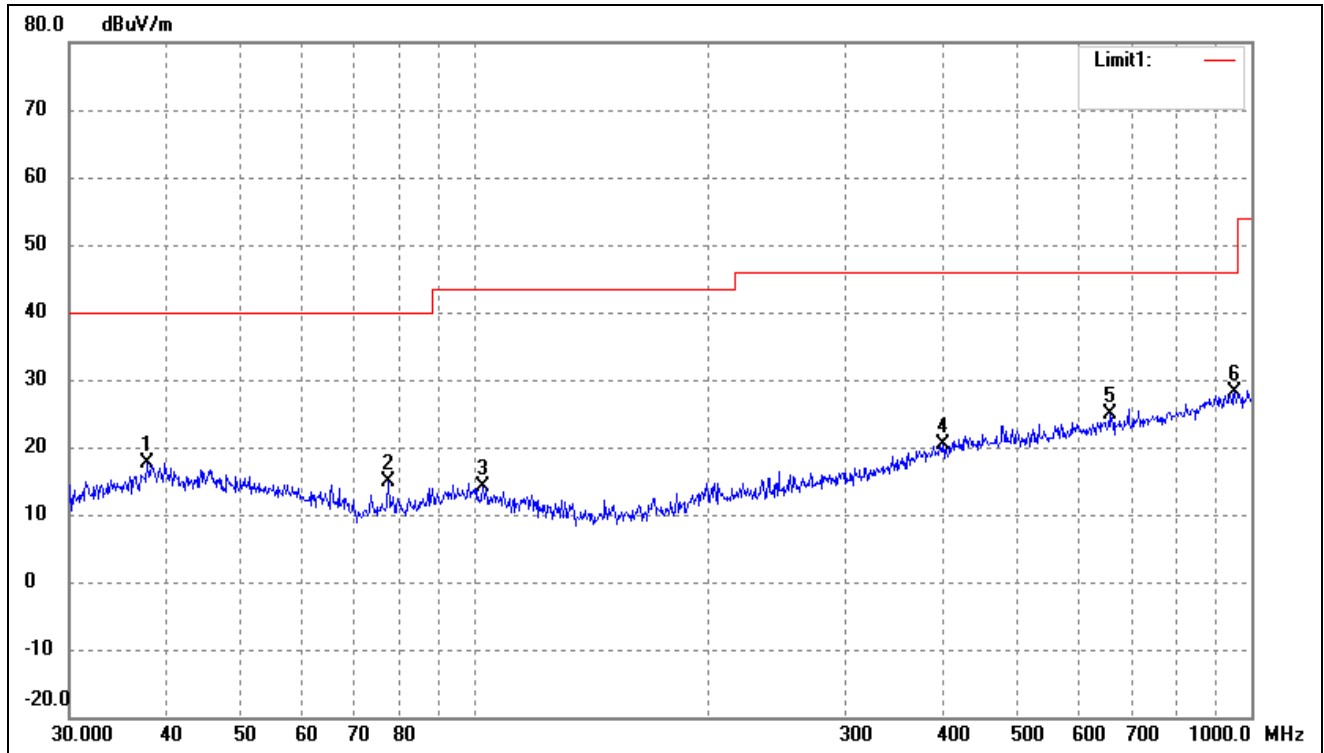
802.11a(Worst case)

Test Channel	5500MHz	Polarity:	Horizontal
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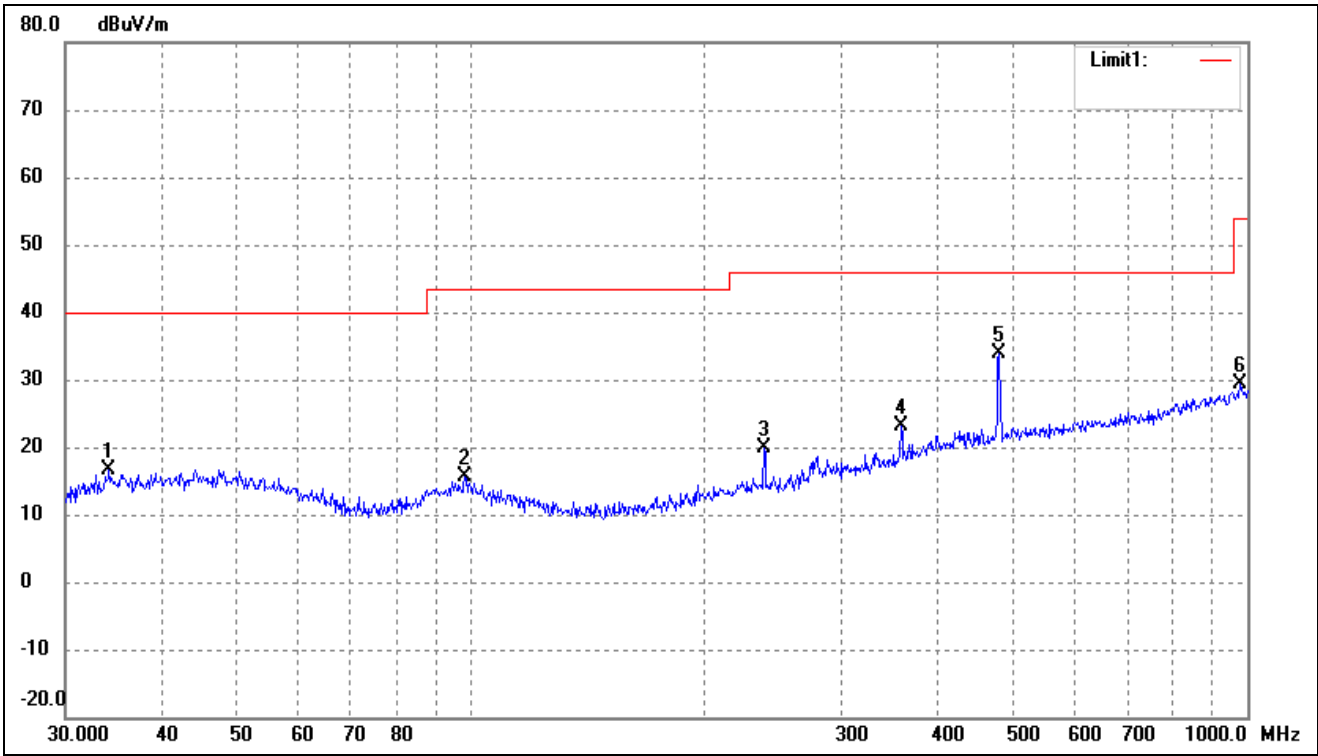
No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	34.1561	28.64	-11.94	16.70	40.00	-23.30	-	-	peak
2	94.4284	27.18	-12.44	14.74	43.50	-28.76	-	-	peak
3	195.8220	26.89	-12.58	14.31	43.50	-29.19	-	-	peak
4	238.3102	28.83	-11.27	17.56	46.00	-28.44	-	-	peak
5	477.1694	38.45	-5.26	33.19	46.00	-12.81	-	-	peak
6	875.2470	26.84	0.00	26.84	46.00	-19.16	-	-	peak

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



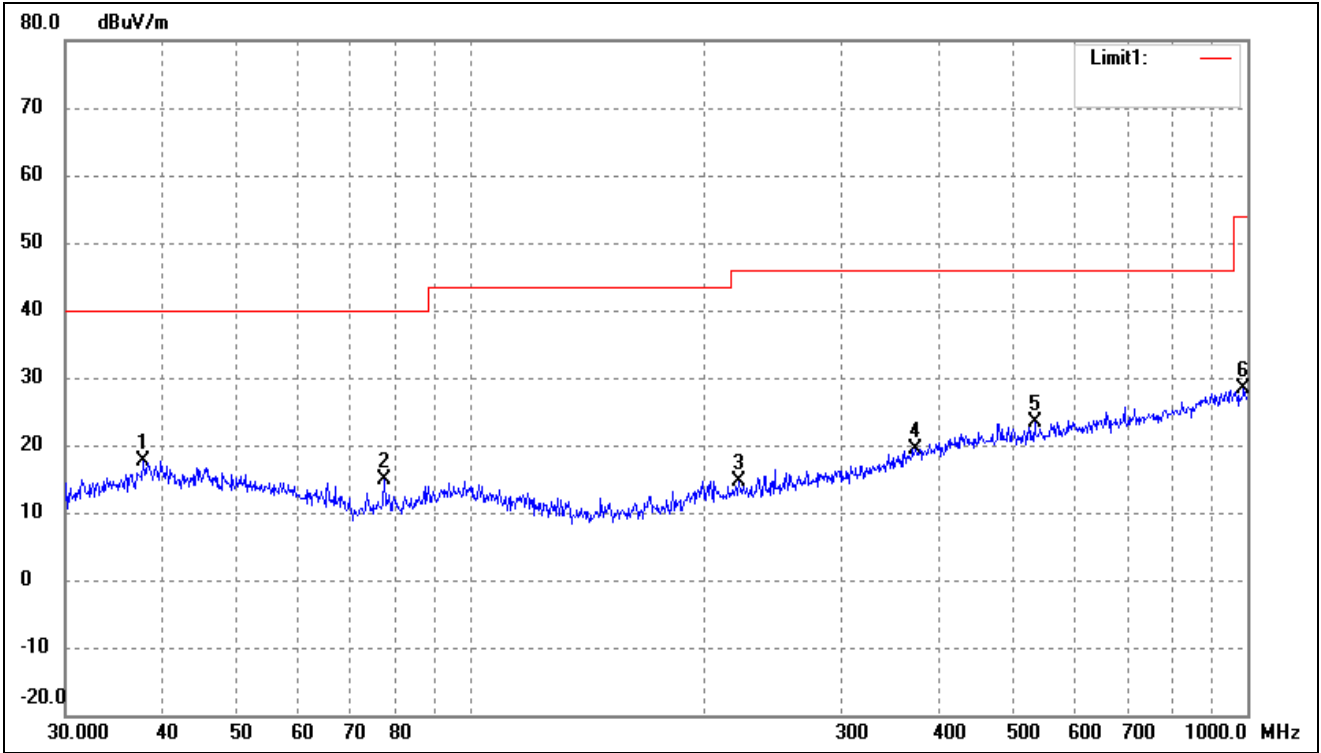
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.8121	28.84	-11.29	17.55	40.00	-22.45	-	-	peak
2	77.3212	29.93	-15.16	14.77	40.00	-25.23	-	-	peak
3	102.3597	26.23	-12.20	14.03	43.50	-29.47	-	-	peak
4	400.4319	26.72	-6.24	20.48	46.00	-25.52	-	-	peak
5	656.5300	28.15	-3.28	24.87	46.00	-21.13	-	-	peak
6	952.0937	27.08	0.94	28.02	46.00	-17.98	-	-	peak

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



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	34.1561	28.64	-11.94	16.70	40.00	-23.30	-	-	peak
2	98.1419	27.83	-12.20	15.63	43.50	-27.87	-	-	peak
3	238.3102	31.17	-11.27	19.90	46.00	-26.10	-	-	peak
4	357.9287	30.68	-7.59	23.09	46.00	-22.91	-	-	peak
5	478.8456	39.20	-5.23	33.97	46.00	-12.03	-	-	peak
6	979.1804	28.19	1.21	29.40	54.00	-24.60	-	-	peak

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

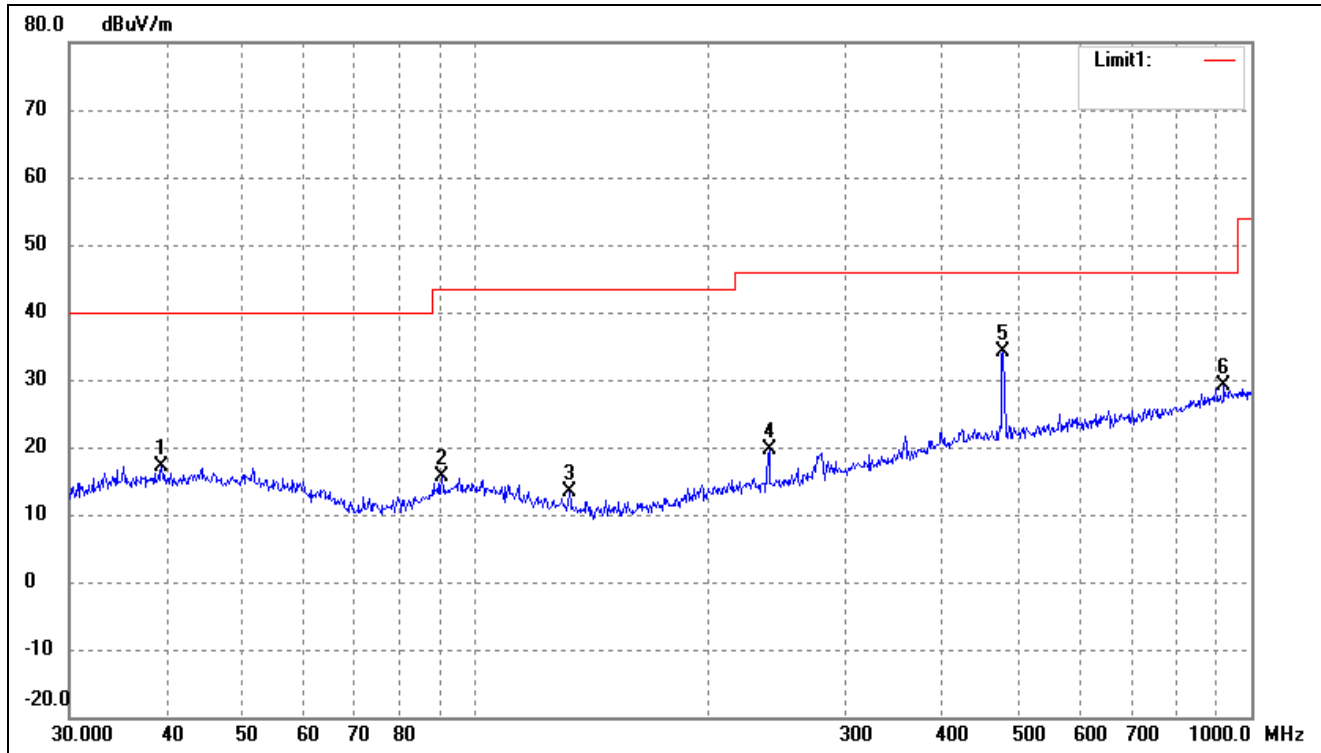


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.8121	28.84	-11.29	17.55	40.00	-22.45	-	-	peak
2	77.3212	29.93	-15.16	14.77	40.00	-25.23	-	-	peak
3	221.3921	26.45	-11.77	14.68	46.00	-31.32	-	-	peak
4	373.3112	26.50	-7.03	19.47	46.00	-26.53	-	-	peak
5	531.9635	28.31	-4.86	23.45	46.00	-22.55	-	-	peak
6	989.5355	27.00	1.30	28.30	54.00	-25.70	-	-	peak

➤ 5725-5850MHz

802.11a(Worst case)

Test Channel	5745MHz	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Corr. dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Deg. ()	Height (cm)	Remark
1	39.4372	28.16	-11.01	17.15	40.00	-22.85	-	-	peak
2	90.5374	28.44	-12.81	15.63	43.50	-27.87	-	-	peak
3	132.2206	28.26	-14.89	13.37	43.50	-30.13	-	-	peak
4	239.1473	30.82	-11.23	19.59	46.00	-26.41	-	-	peak
5	478.8456	39.26	-5.23	34.03	46.00	-11.97	-	-	peak
6	922.5157	28.44	0.68	29.12	46.00	-16.88	-	-	peak

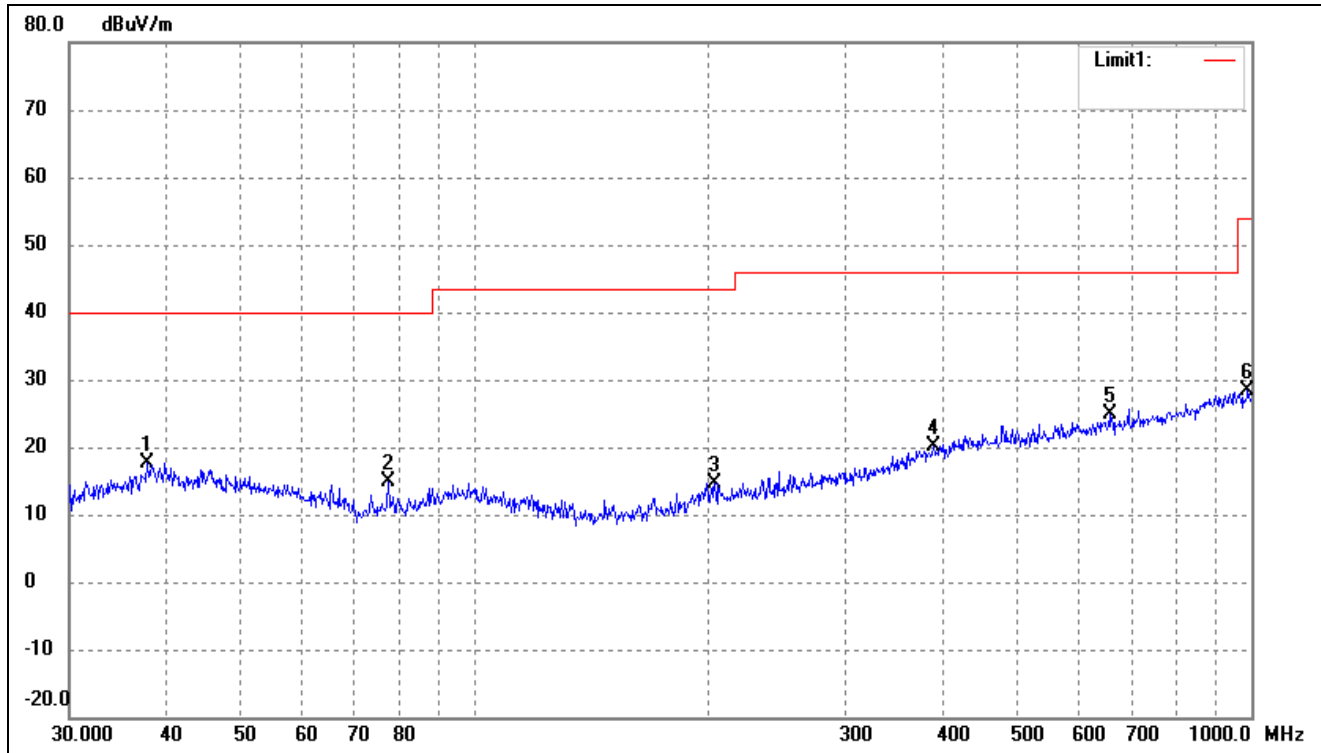
802.11a(Worst case)

Test Channel

5745MHz

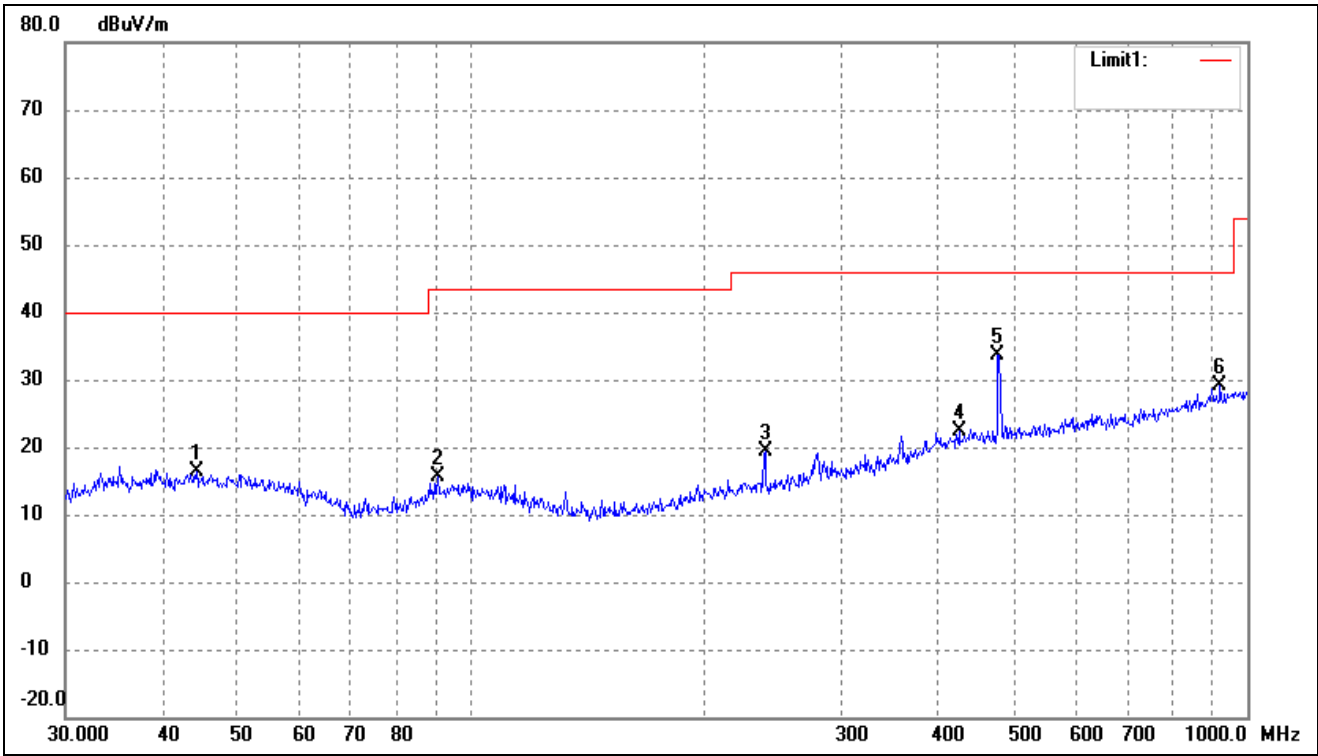
Polarity:

Vertical



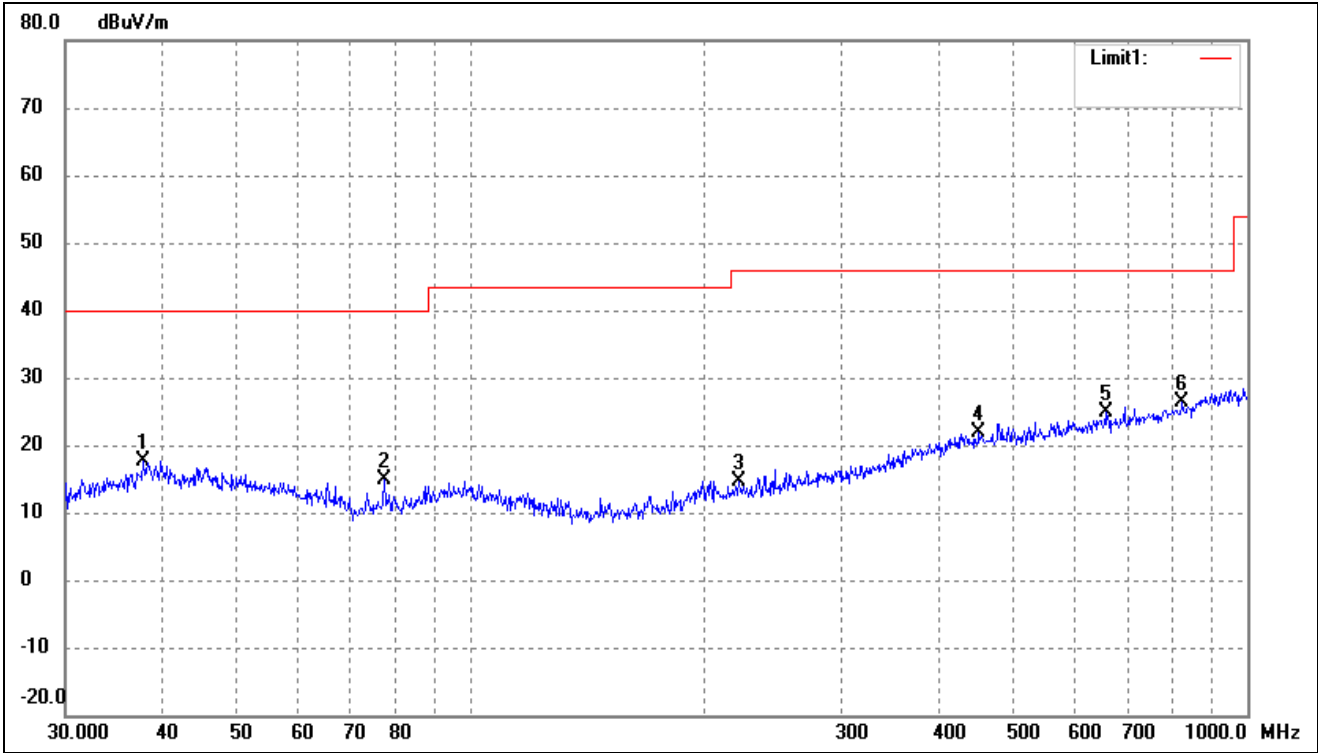
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.8121	28.84	-11.29	17.55	40.00	-22.45	-	-	peak
2	77.3212	29.93	-15.16	14.77	40.00	-25.23	-	-	peak
3	203.5228	26.93	-12.29	14.64	43.50	-28.86	-	-	peak
4	389.3549	26.70	-6.54	20.16	46.00	-25.84	-	-	peak
5	656.5300	28.15	-3.28	24.87	46.00	-21.13	-	-	peak
6	989.5355	27.00	1.30	28.30	54.00	-25.70	-	-	peak

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



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	44.2752	27.28	-10.89	16.39	40.00	-23.61	-	-	peak
2	90.5374	28.44	-12.81	15.63	43.50	-27.87	-	-	peak
3	239.1473	30.60	-11.23	19.37	46.00	-26.63	-	-	peak
4	425.0280	27.77	-5.45	22.32	46.00	-23.68	-	-	peak
5	477.1694	38.87	-5.26	33.61	46.00	-12.39	-	-	peak
6	922.5157	28.44	0.68	29.12	46.00	-16.88	-	-	peak

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

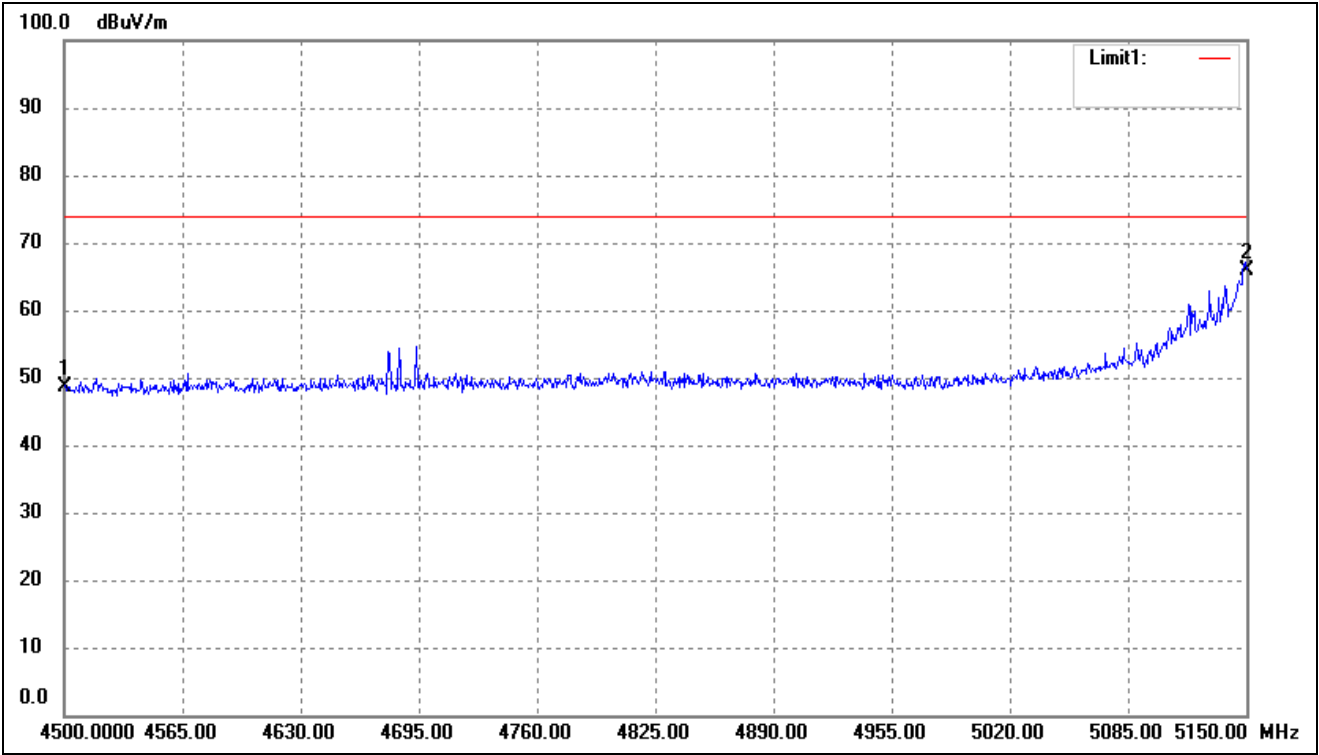


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.8121	28.84	-11.29	17.55	40.00	-22.45	-	-	peak
2	77.3212	29.93	-15.16	14.77	40.00	-25.23	-	-	peak
3	221.3921	26.45	-11.77	14.68	46.00	-31.32	-	-	peak
4	451.1350	27.37	-5.45	21.92	46.00	-24.08	-	-	peak
5	656.5300	28.15	-3.28	24.87	46.00	-21.13	-	-	peak
6	824.5968	27.22	-0.96	26.26	46.00	-19.74	-	-	peak

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

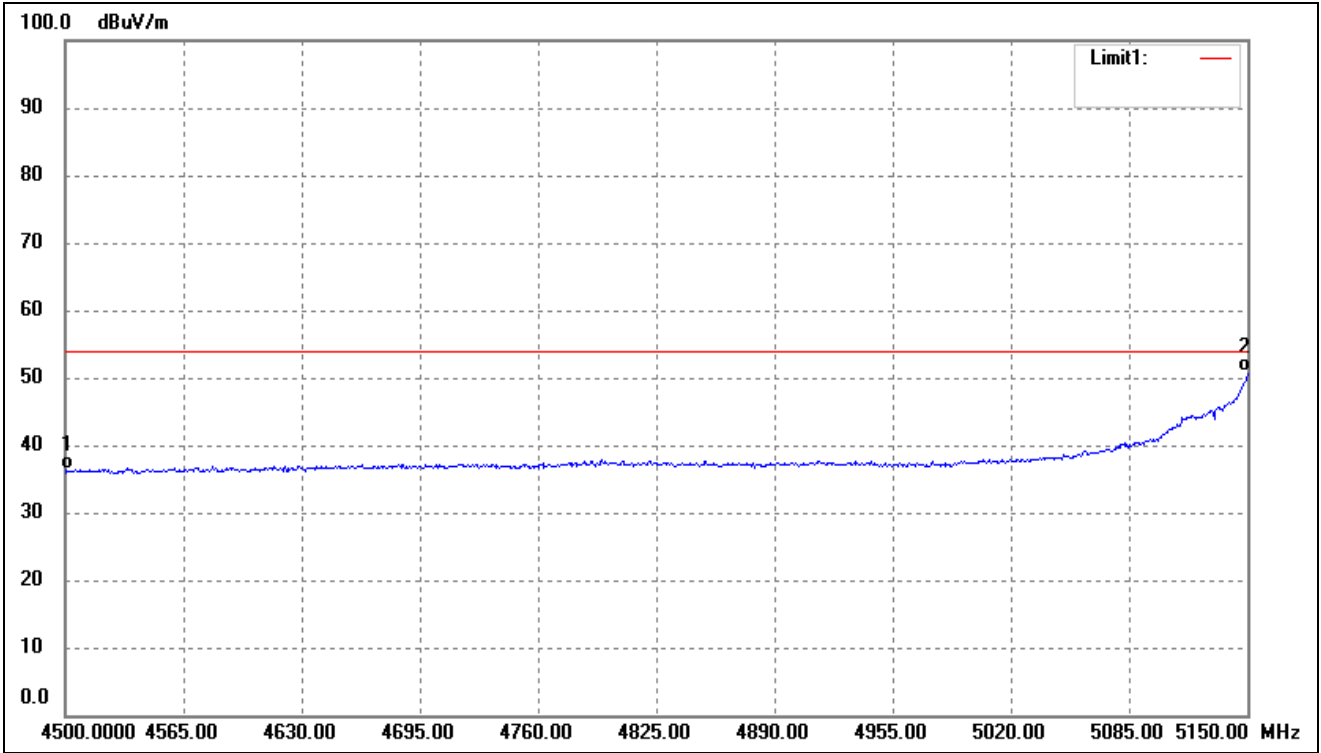
- Spurious Emission above 1GHz
- Antenna 1(worst case)

802.11a- Restricted Bandedge (worst case)			
Test Channel	band 4.50-5.15GHz	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	4500.000	52.15	-3.45	48.70	74.00	-25.30	-	-	peak
2	5150.000	68.14	-2.23	65.91	74.00	-8.09	-	-	peak

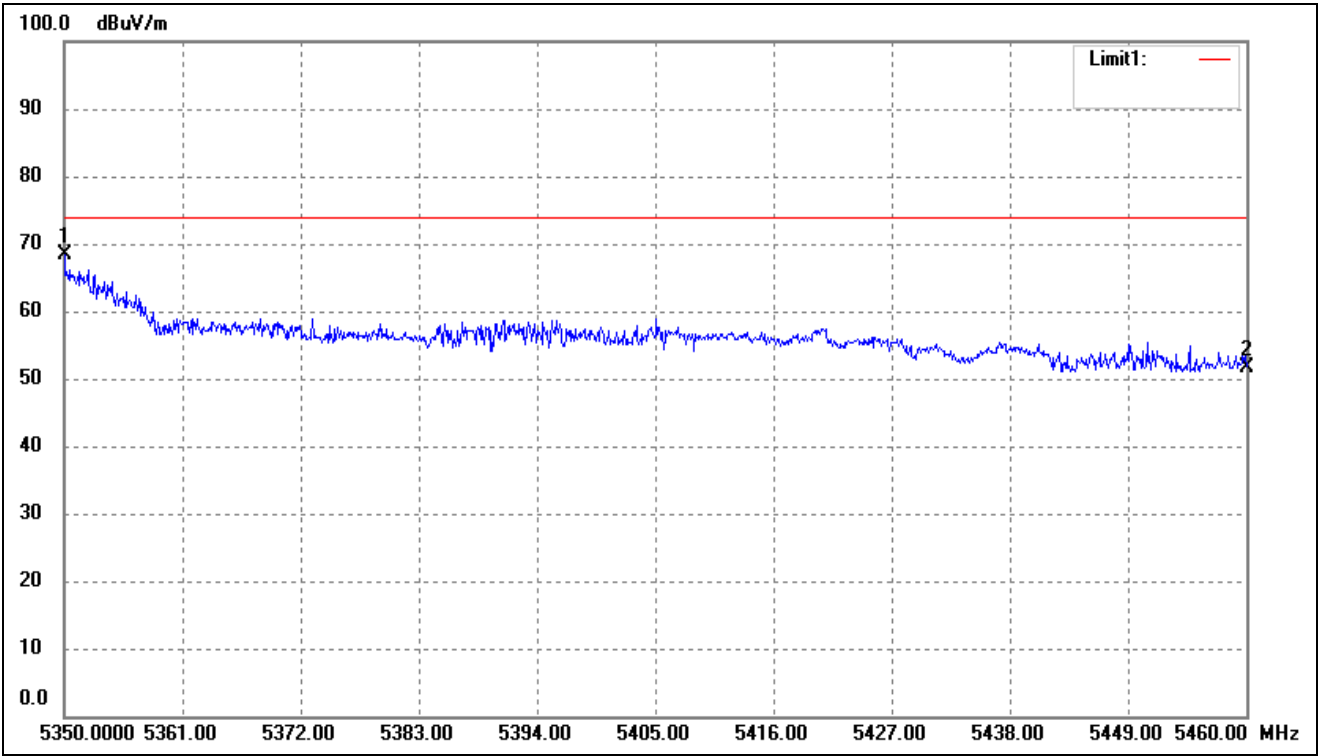
802.11a- Restricted Bandedge (worst case)			
Test Channel	band 4.50-5.15GHz	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	4500.000	39.74	-3.45	36.29	54.00	-17.71	-	-	AVG
2	5150.000	53.05	-2.23	50.82	54.00	-3.18	-	-	AVG

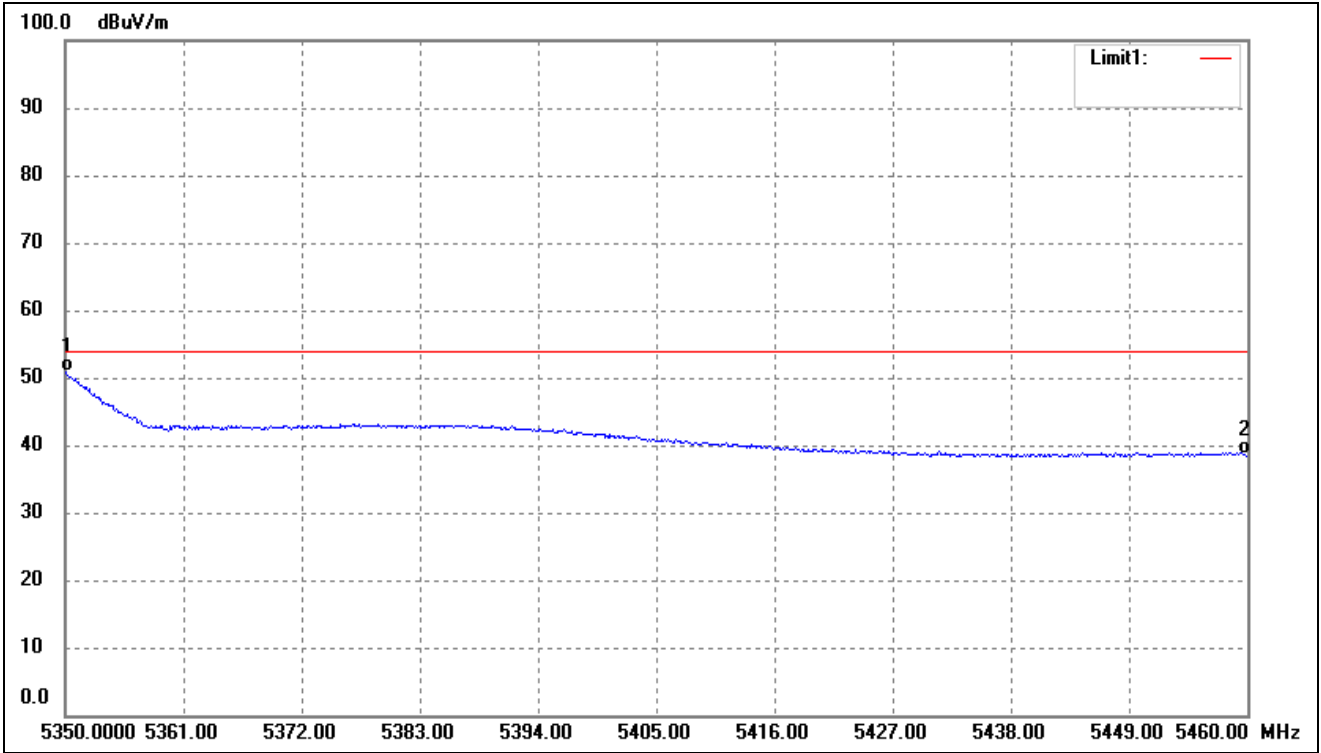
5250-5350MHz

802.11a- Restricted Bandedge(worst case)			
Test Channel	band 5.36-5.46GHz	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5350.000	70.23	-1.89	68.34	74.00	-5.66	-	-	peak
2	5460.000	53.23	-1.71	51.52	74.00	-22.48	-	-	peak

802.11a- Restricted Bandedge(worst case)			
Test Channel	band 5.36-5.46GHz	Polarity:	Horizontal(worst case)

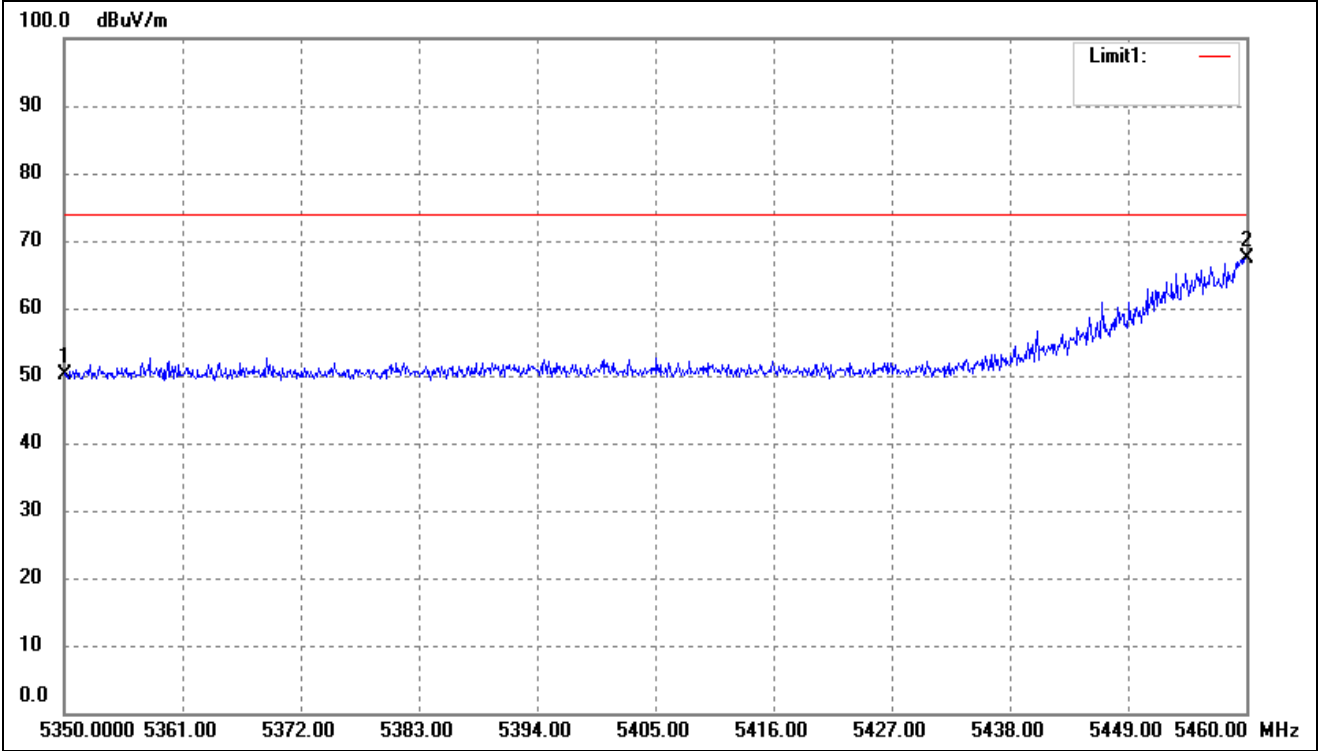


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5350.000	52.78	-1.89	50.89	54.00	-3.11	-	-	AVG
2	5460.000	40.30	-1.71	38.59	54.00	-15.41	-	-	AVG

5470-5725MHz

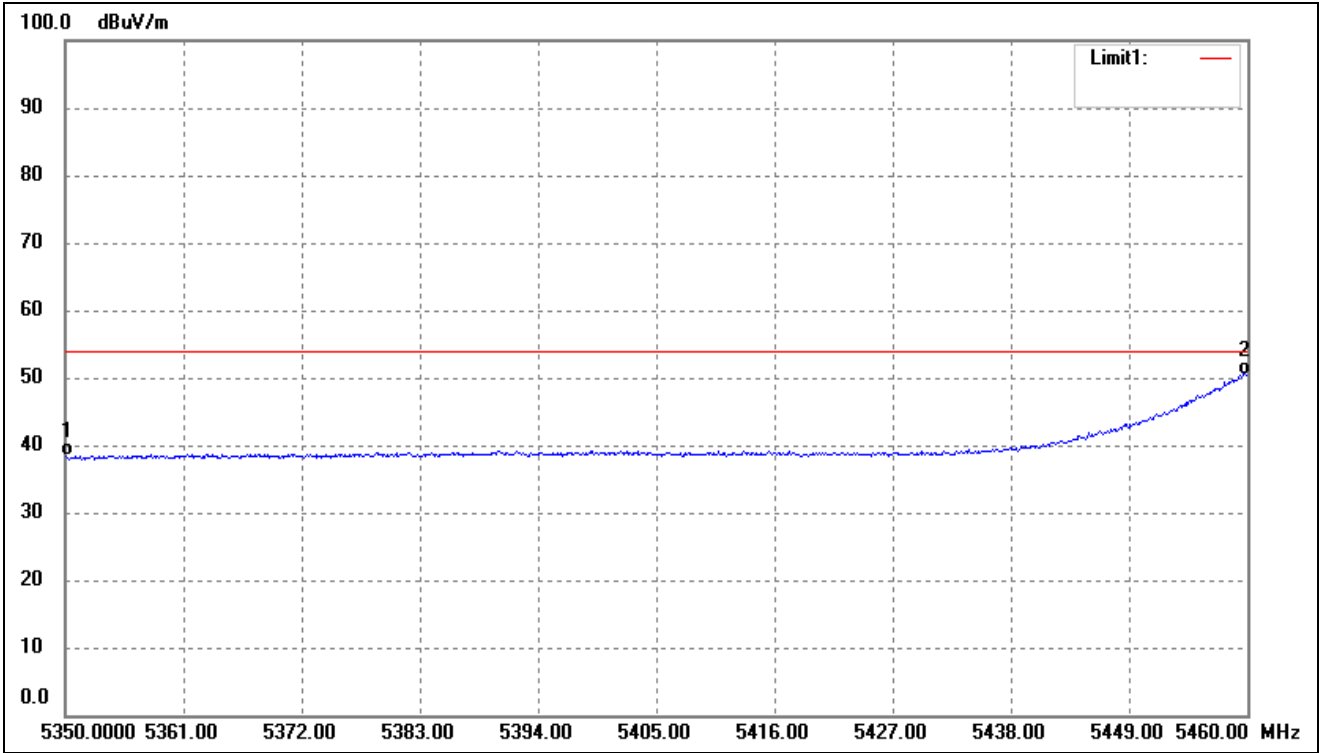
802.11a- Restricted Bandedge(worst case)

Test Channel	band 5.36-5.46GHz	Polarity:	Horizontal(worst case)
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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	5350.000	51.98	-1.89	50.09	74.00	-23.91	-	-	peak
2	5460.000	69.00	-1.71	67.29	74.00	-6.71	-	-	peak

802.11a- Restricted Bandedge(worst case)			
Test Channel	band 5.36-5.46GHz	Polarity:	Horizontal(worst case)



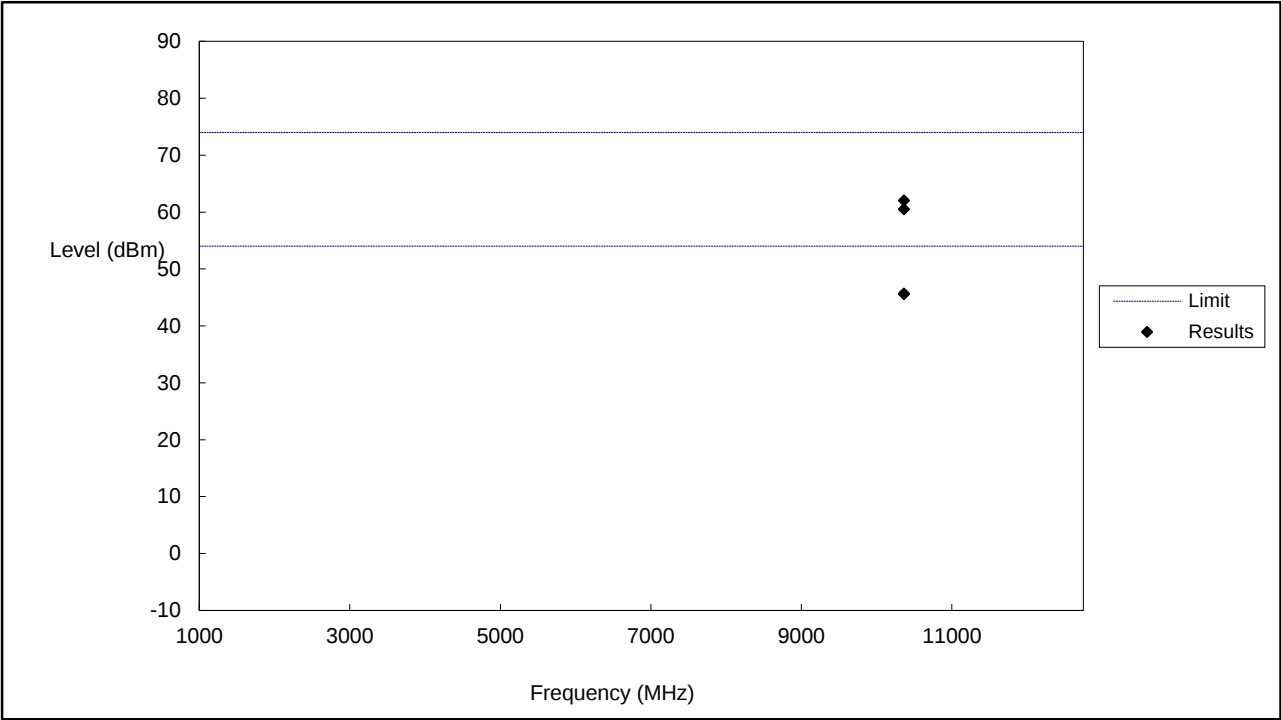
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	5350.000	40.21	-1.89	38.32	54.00	-15.68	-	-	AVG
2	5460.000	52.21	-1.71	50.50	54.00	-3.50	-	-	AVG

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

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

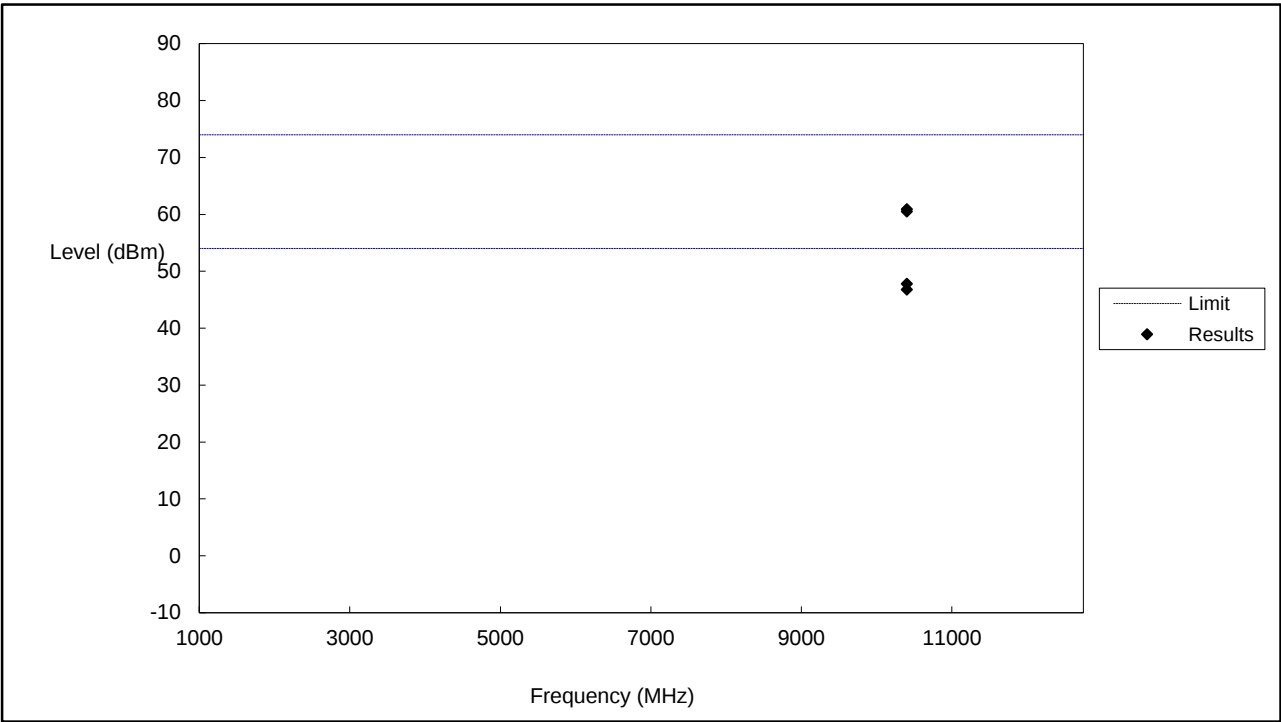
- Antenna 1(worst case)
- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11a)
- Harmonics and Spurious Emissions

Low Channel (5180MHz)



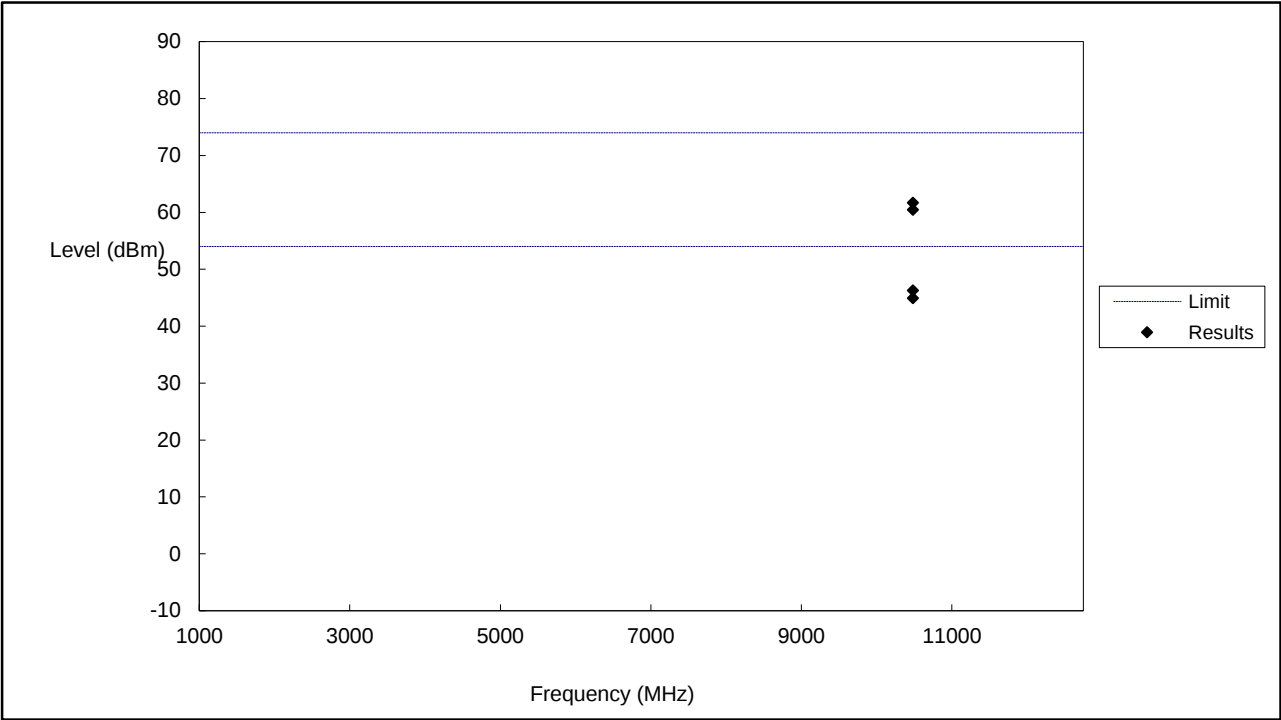
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10360	62.03	74	-11.97	H	RMS
2	10360	45.68	54	-8.32	H	RMS
1	10360	60.55	74	-13.45	V	RMS
2	10360	45.63	54	-8.37	V	RMS

Middle Channel (5200MHz)



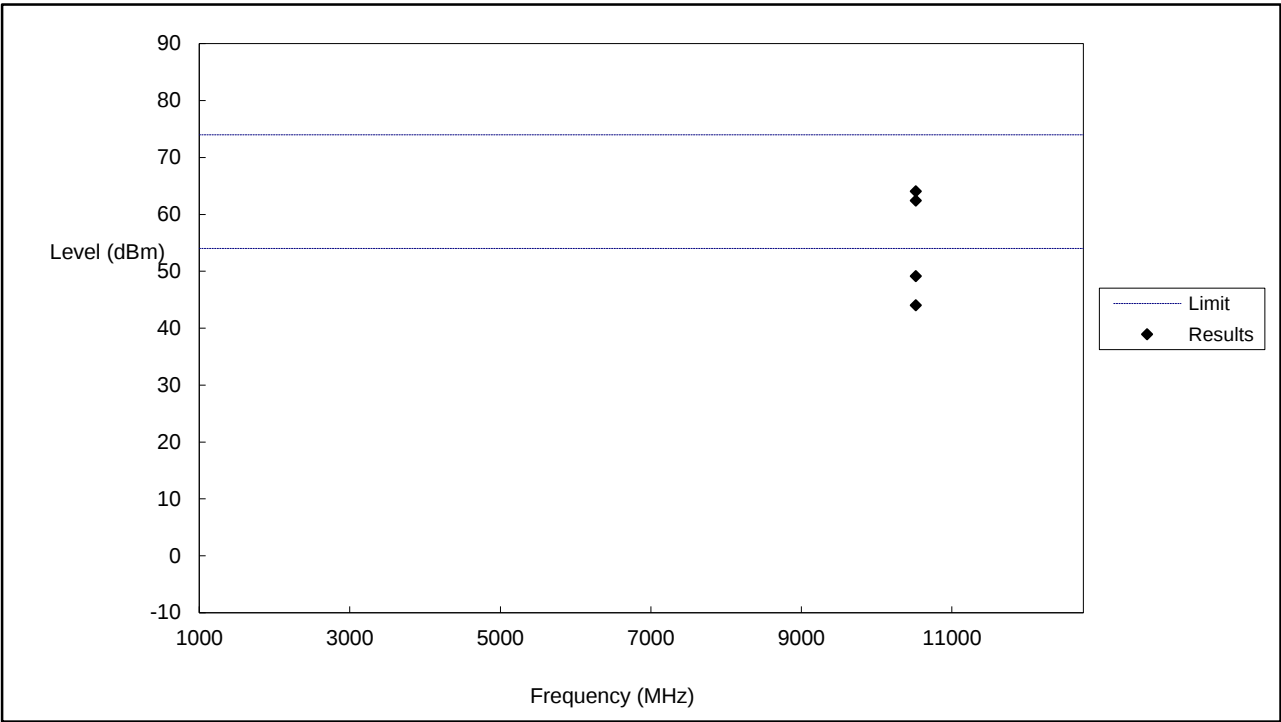
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10400	60.96	74	-13.04	H	RMS
2	10400	46.82	54	-7.18	H	RMS
1	10400	60.52	74	-13.48	V	RMS
2	10400	47.81	54	-6.19	V	RMS

High Channel (5240MHz)



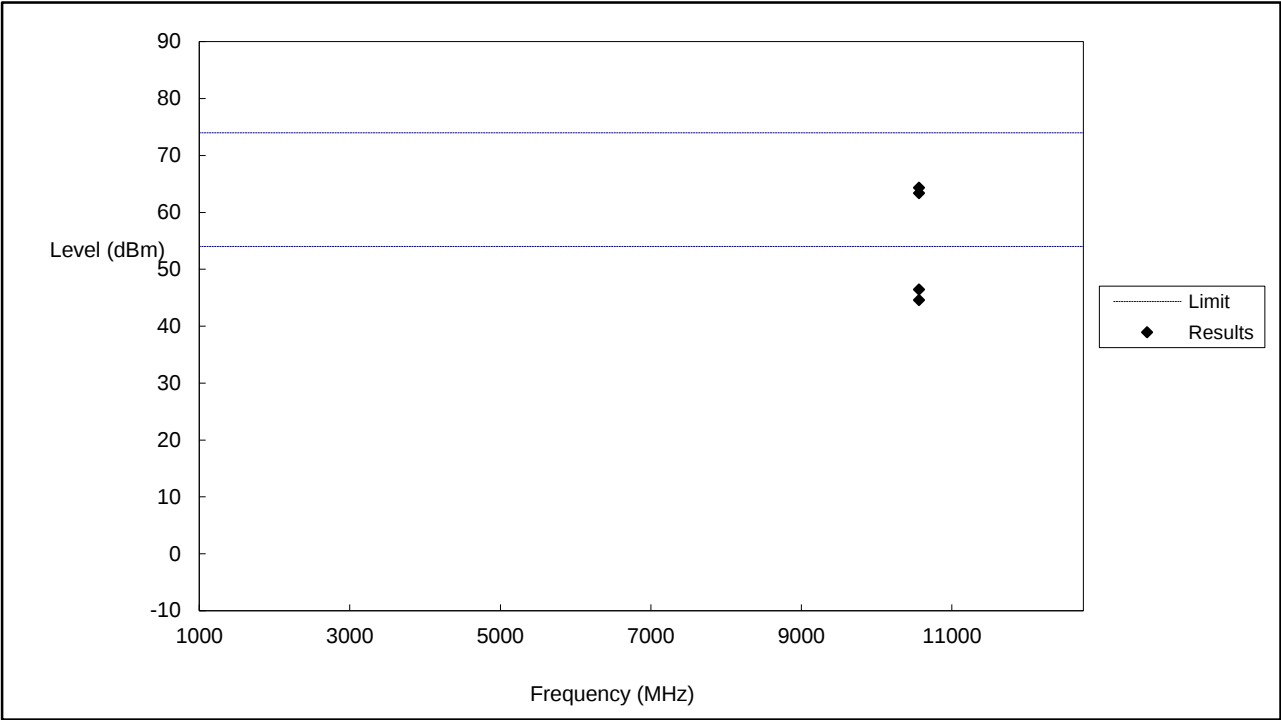
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10480	61.72	74	-12.28	H	RMS
2	10480	44.94	54	-9.06	H	RMS
1	10480	60.50	74	-13.50	V	RMS
2	10480	46.32	54	-7.68	V	RMS

Low Channel (5260MHz)



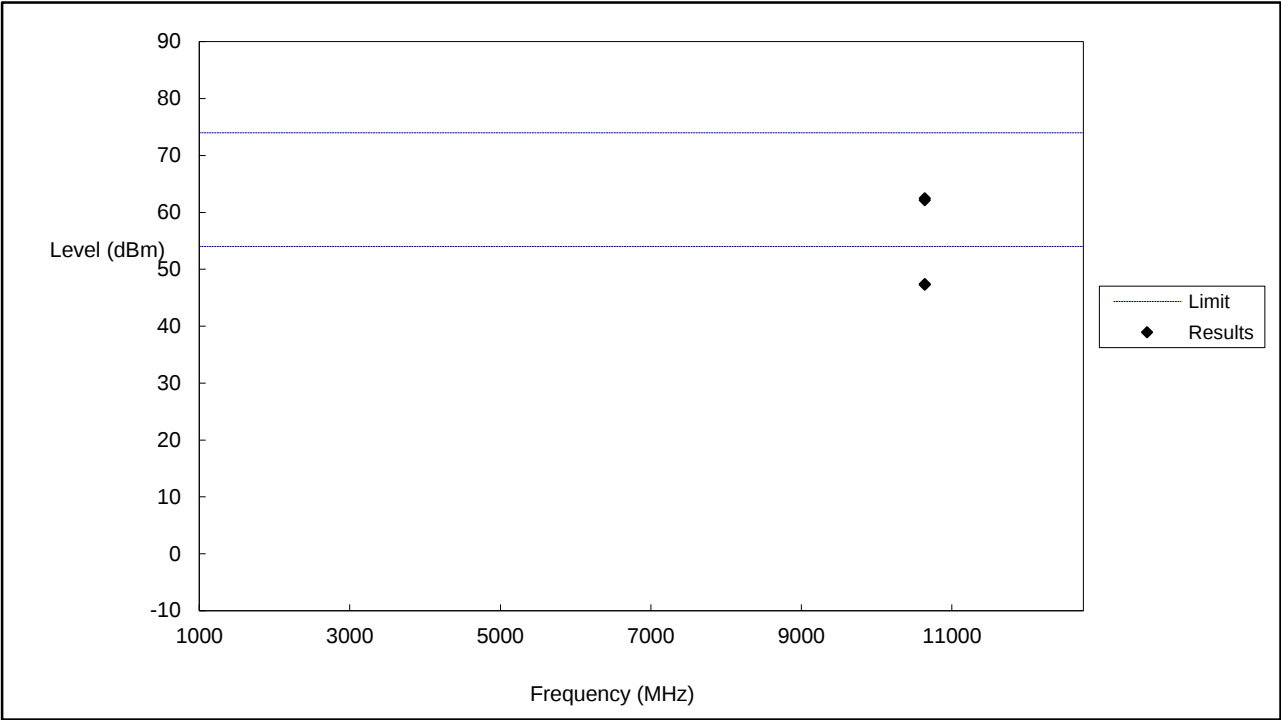
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10520	62.44	74	-11.56	H	RMS
2	10520	49.16	54	-4.84	H	RMS
1	10520	64.11	74	-9.89	V	RMS
2	10520	44.04	54	-9.96	V	RMS

Middle Channel (5280MHz)



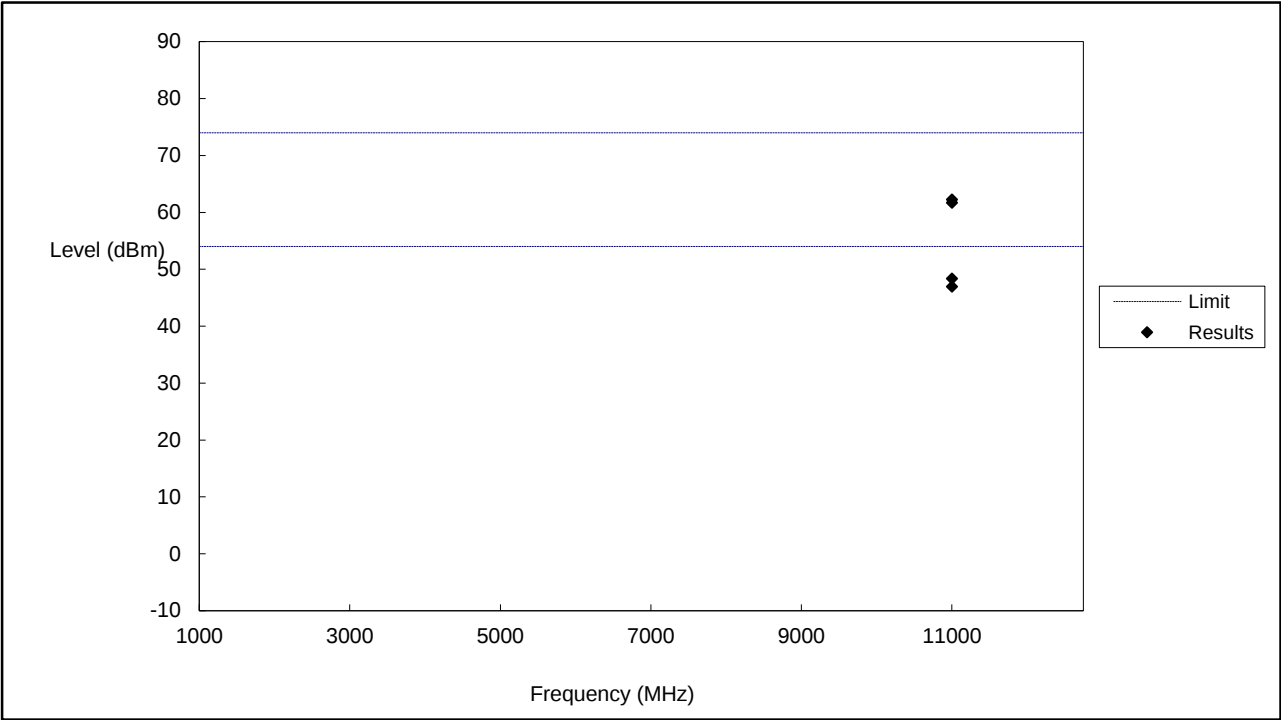
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10560	64.38	74	-9.62	H	RMS
2	10560	44.62	54	-9.38	H	RMS
1	10560	63.39	74	-10.61	V	RMS
2	10560	46.46	54	-7.54	V	RMS

High Channel (5320MHz)



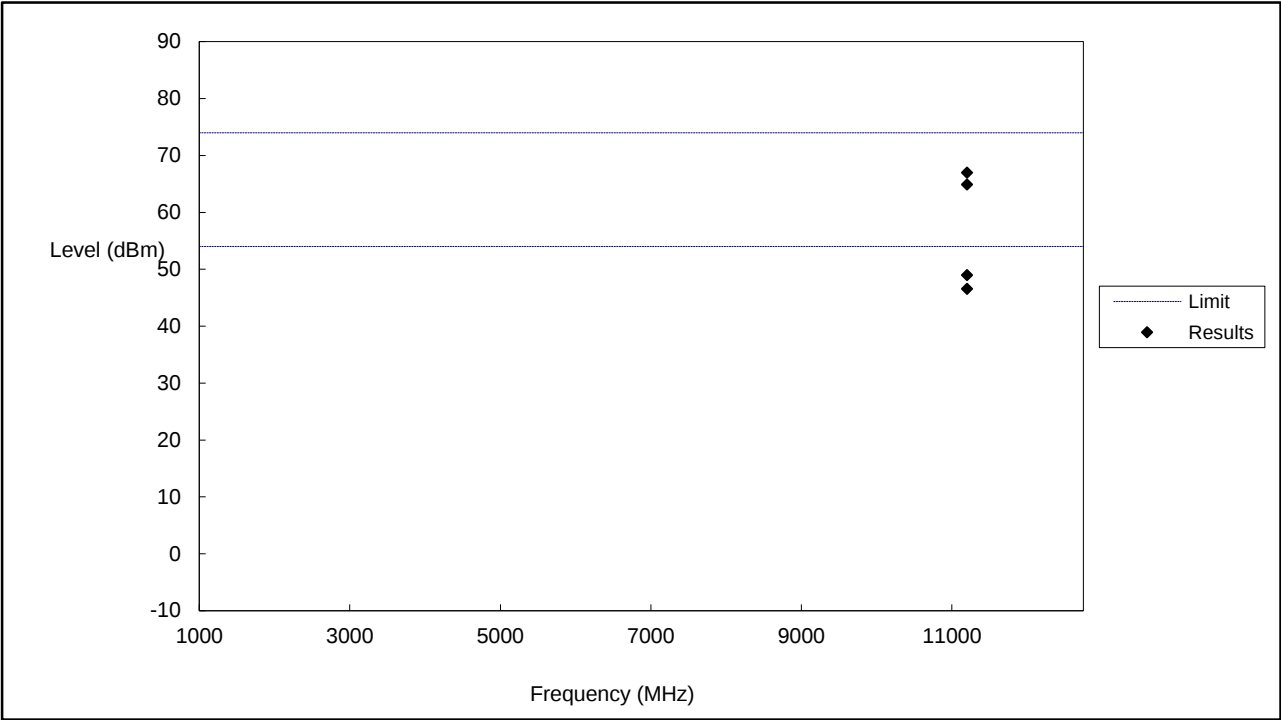
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10640	62.49	74	-11.51	H	RMS
2	10640	47.31	54	-6.69	H	RMS
1	10640	62.17	74	-11.83	V	RMS
2	10640	47.41	54	-6.59	V	RMS

Low Channel (5500MHz)



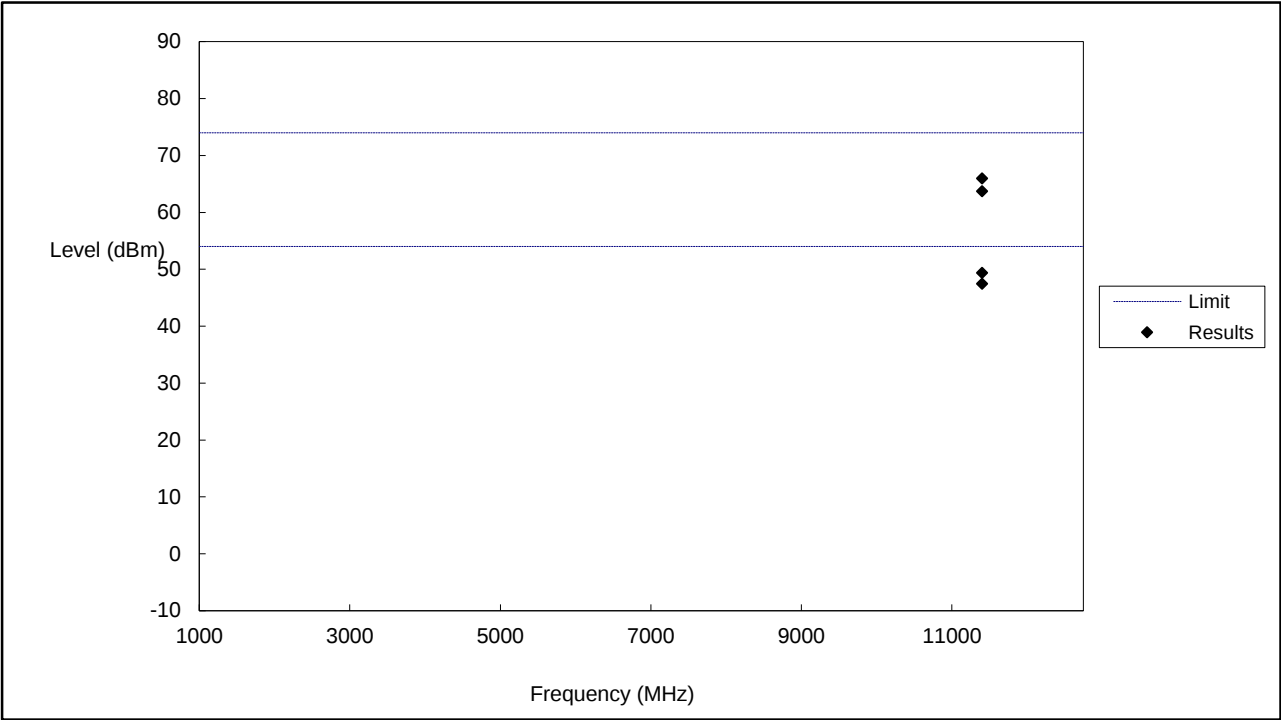
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11000	61.71	74	-12.29	H	RMS
2	11000	48.41	54	-5.59	H	RMS
1	11000	62.28	74	-11.72	V	RMS
2	11000	46.99	54	-7.01	V	RMS

Middle Channel (5580MHz)



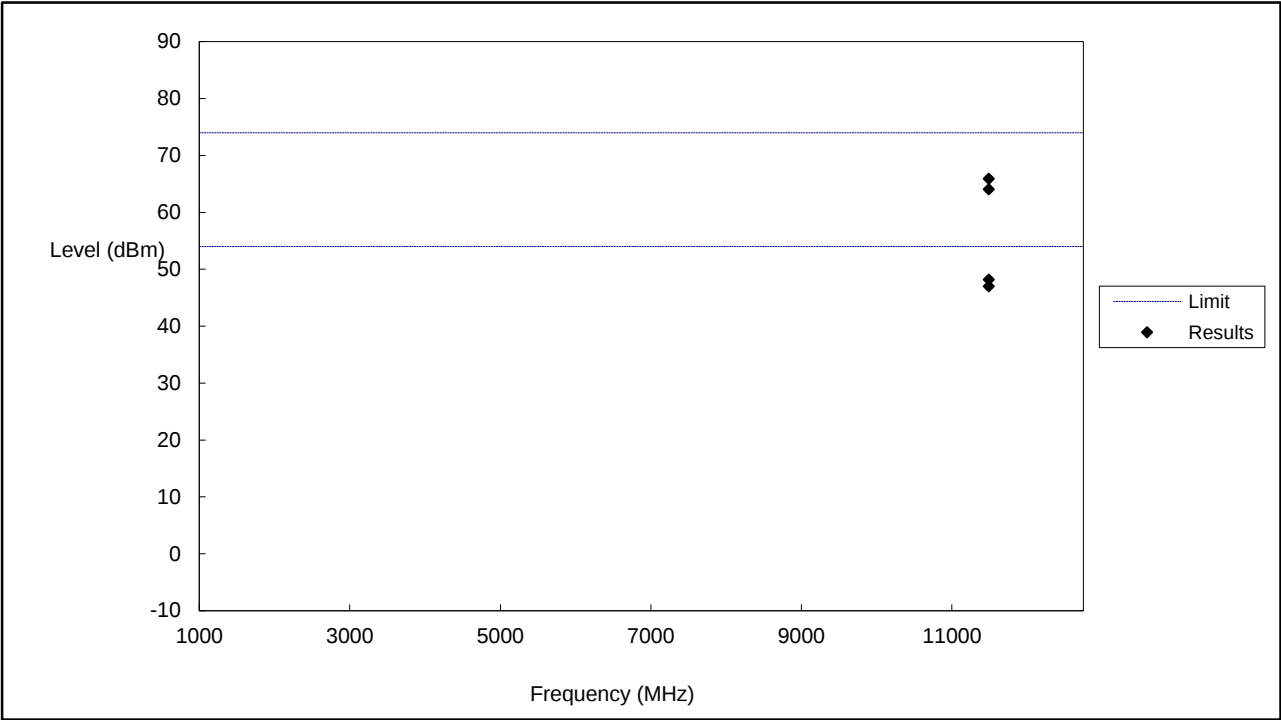
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11200	64.91	74	-9.09	H	RMS
2	11200	49.03	54	-4.97	H	RMS
1	11200	67.02	74	-6.98	V	RMS
2	11200	46.60	54	-7.40	V	RMS

High Channel (5700MHz)



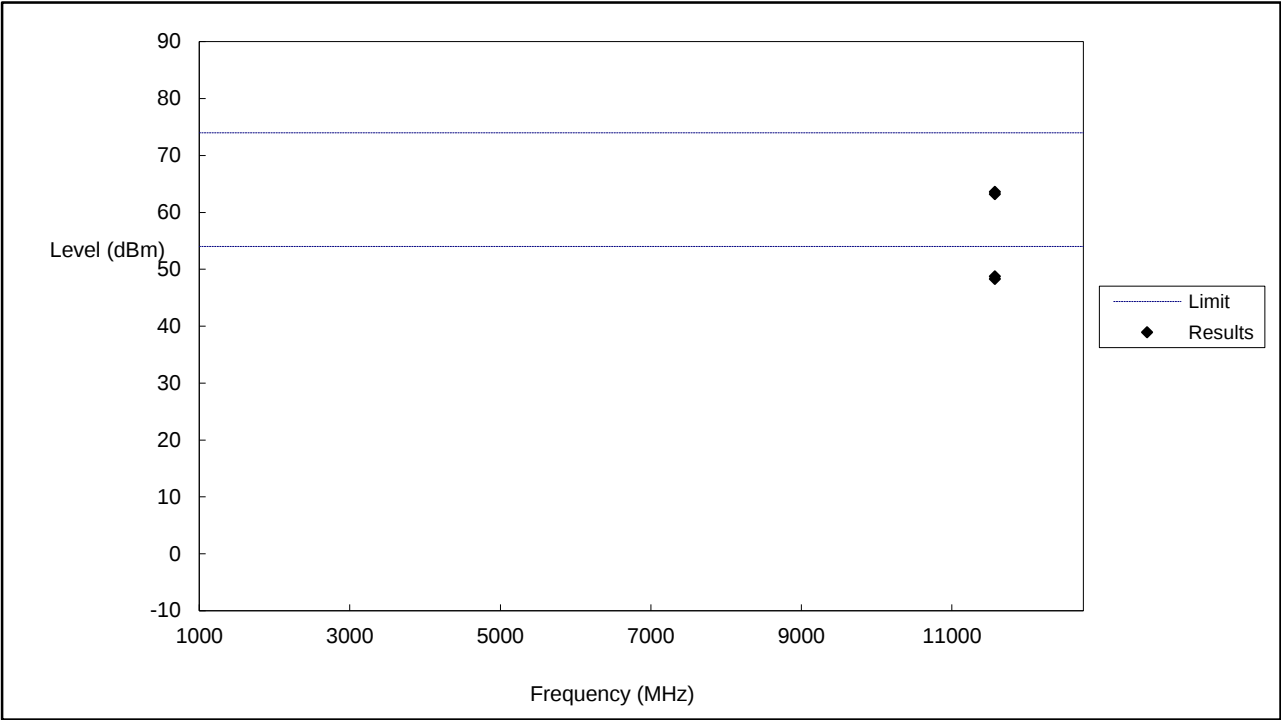
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11400	63.74	74	-10.26	H	RMS
2	11400	49.41	54	-4.59	H	RMS
1	11400	65.98	74	-8.02	V	RMS
2	11400	47.47	54	-6.53	V	RMS

Low Channel (5745MHz)



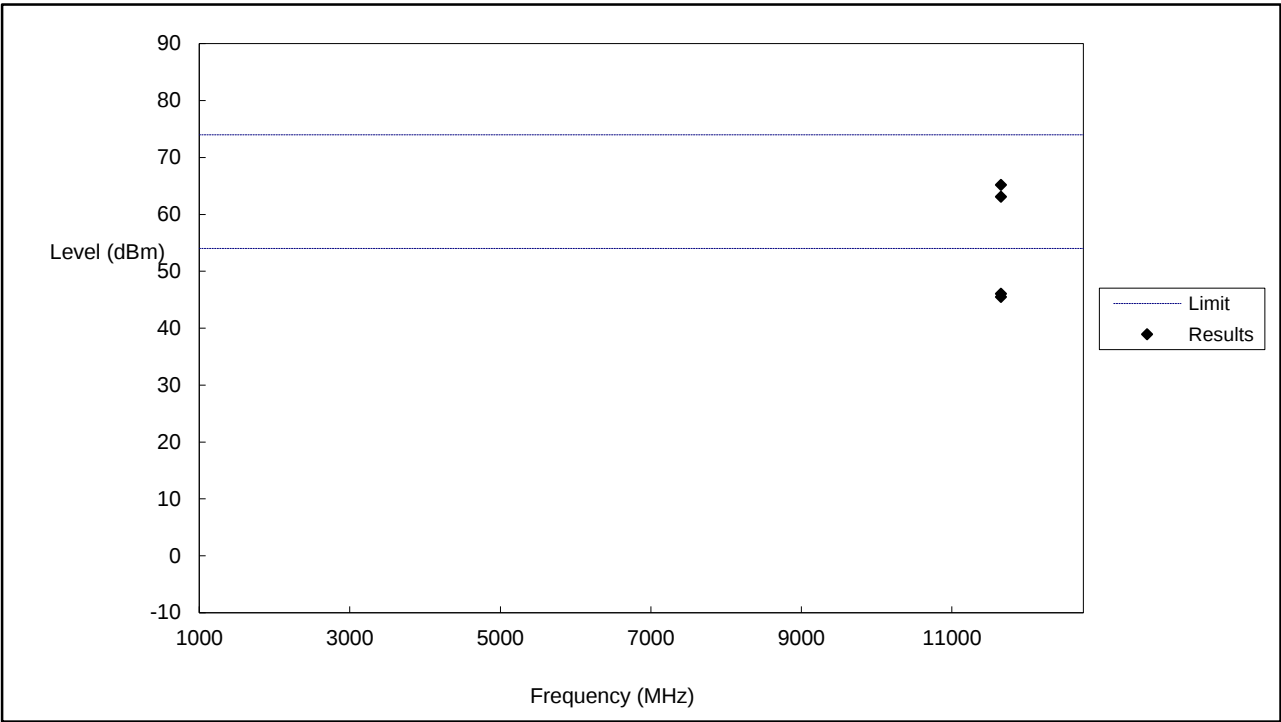
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11490	64.07	74	-9.93	H	RMS
2	11490	47.06	54	-6.94	H	RMS
1	11490	65.93	74	-8.07	V	RMS
2	11490	48.24	54	-5.76	V	RMS

Middle Channel (5785MHz)



No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11570	63.22	74	-10.78	H	RMS
2	11570	48.76	54	-5.24	H	RMS
1	11570	63.66	74	-10.34	V	RMS
2	11570	48.32	54	-5.68	V	RMS

High Channel (5825MHz)



No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11650	65.23	74	-8.77	H	RMS
2	11650	45.51	54	-8.49	H	RMS
1	11650	63.14	74	-10.86	V	RMS
2	11650	46.06	54	-7.94	V	RMS

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-41.81	-27
Highest	Above 5350	-40.18	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-43.00	-27
Highest	Above 5350	-42.70	-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	-38.65	-27
Highest	Above 5725	-36.12	-27
Note: the data just list the worst cases			

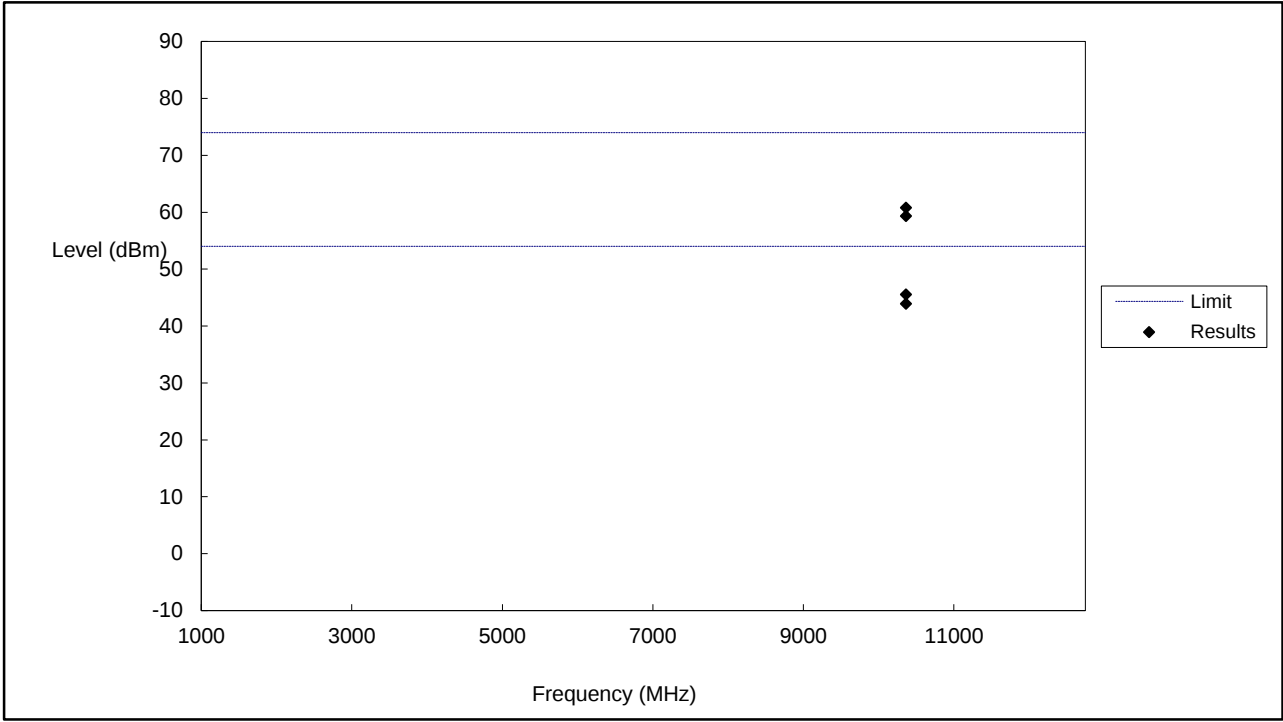
➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5650	-45.88	-27
	5650 to 5700	-36.11	-27 to -17
	5700 to 5720	-29.27	-17 to 15.6
	5720 to 5725	-18.22	15.6 to 27
Highest	5850 to 5855	-14.21	27 to 15.6
	5855 to 5875	-26.78	15.6 to -17
	5875 to 5925	-35.42	-17 to -27
	Above 5925	-40.87	-27
Note: the data just list the worst cases			

Reference No.: WTX22X12264635W004

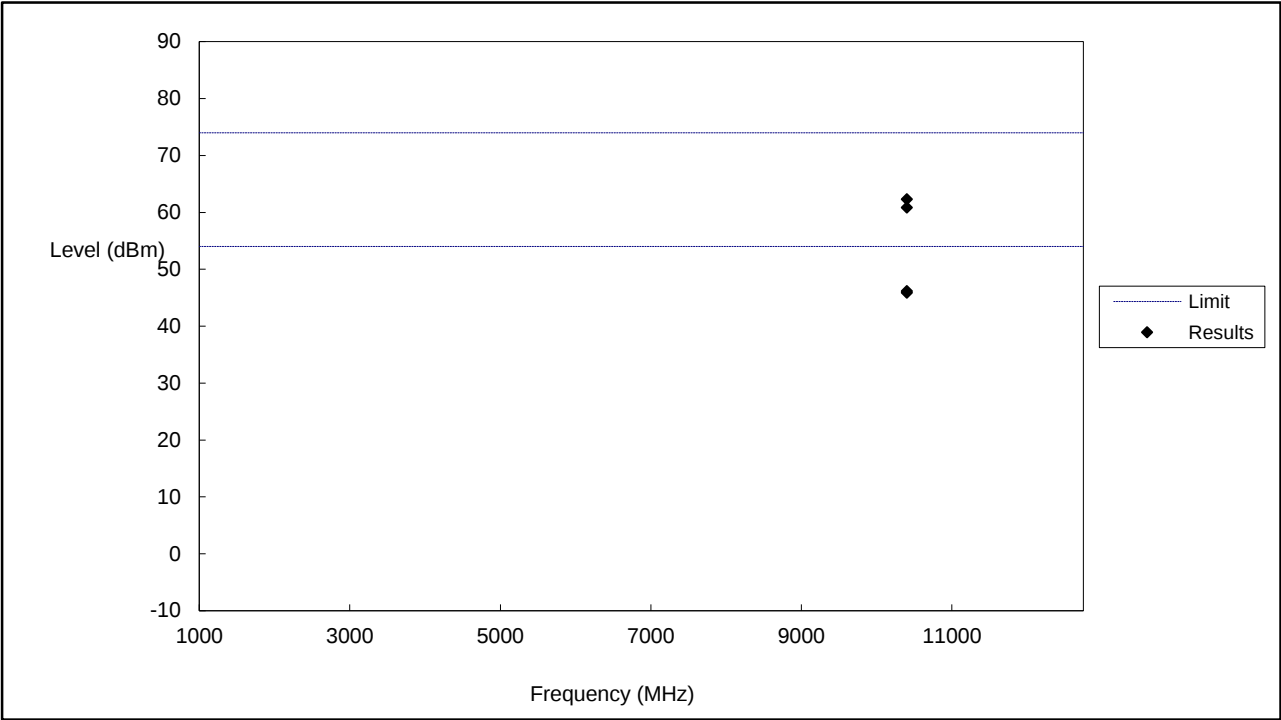
- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11n HT20)
- Harmonics And Spurious Emissions

Low Channel (5180MHz)



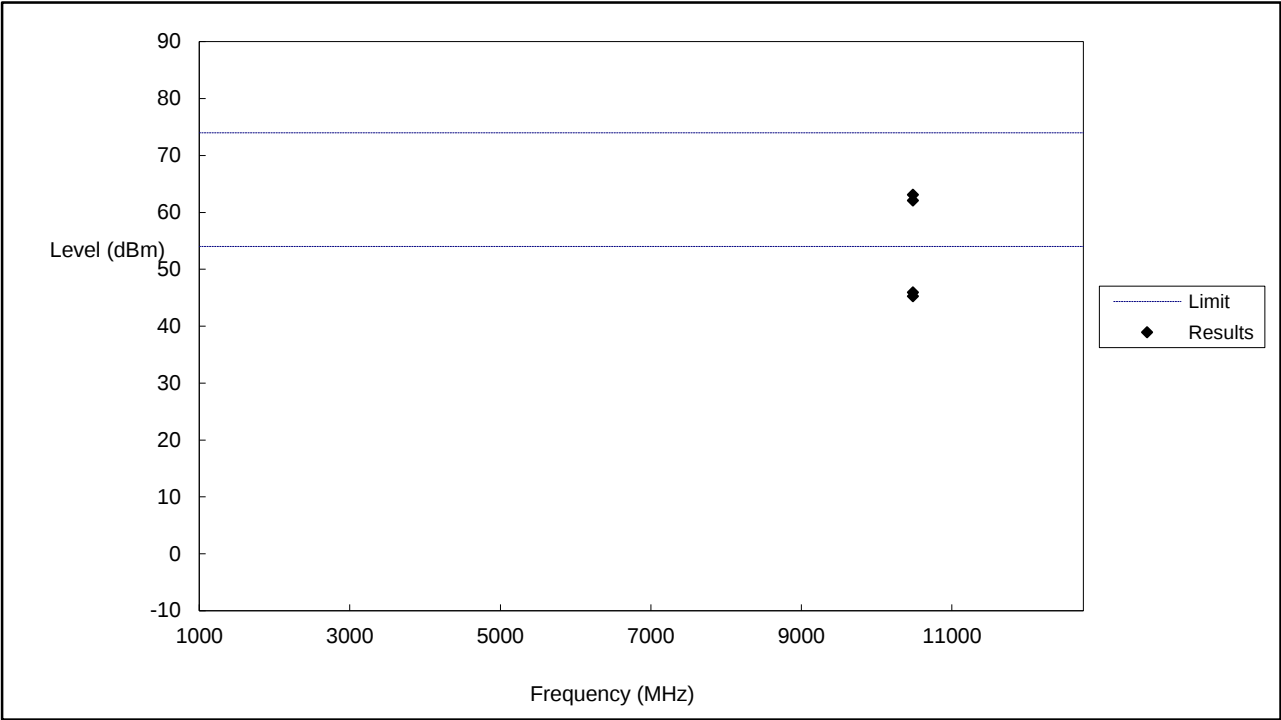
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10360	59.36	74	-14.64	H	RMS
2	10360	43.96	54	-10.04	H	RMS
1	10360	60.81	74	-13.19	V	RMS
2	10360	45.56	54	-8.44	V	RMS

Middle Channel (5200MHz)



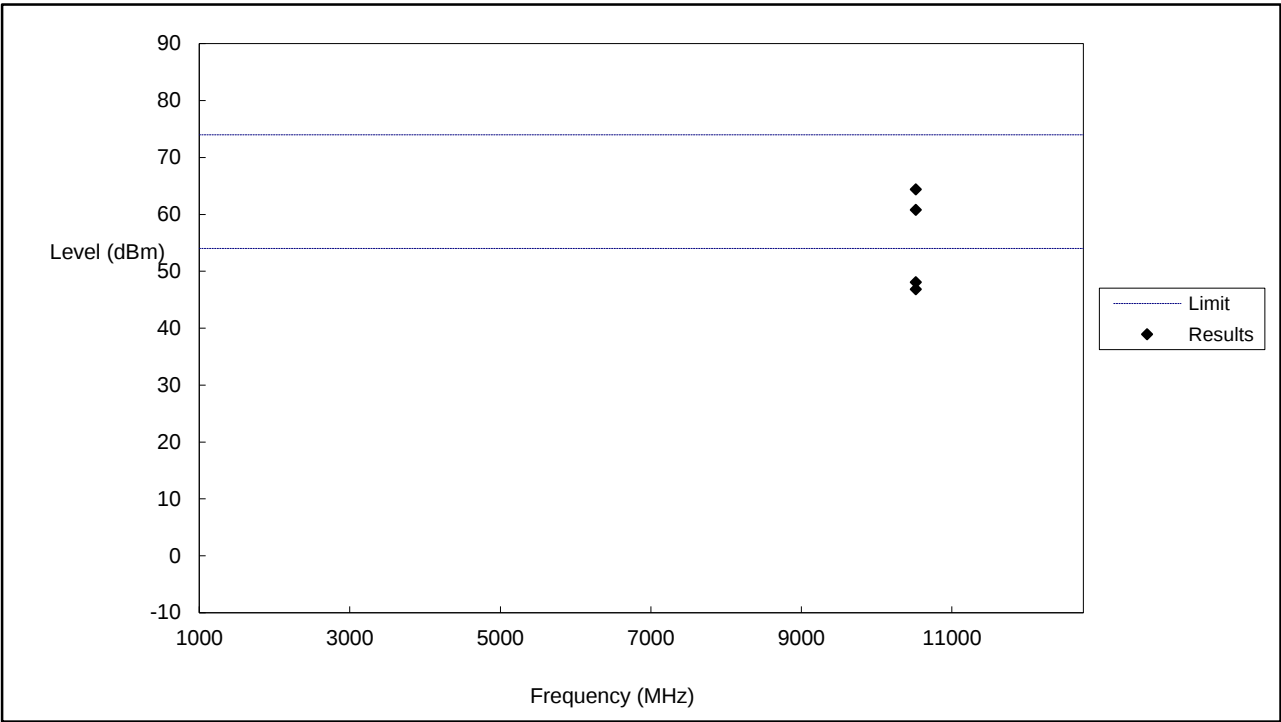
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10400	62.34	74	-11.66	H	RMS
2	10400	45.90	54	-8.10	H	RMS
1	10400	60.86	74	-13.14	V	RMS
2	10400	46.20	54	-7.80	V	RMS

High Channel (5240MHz)



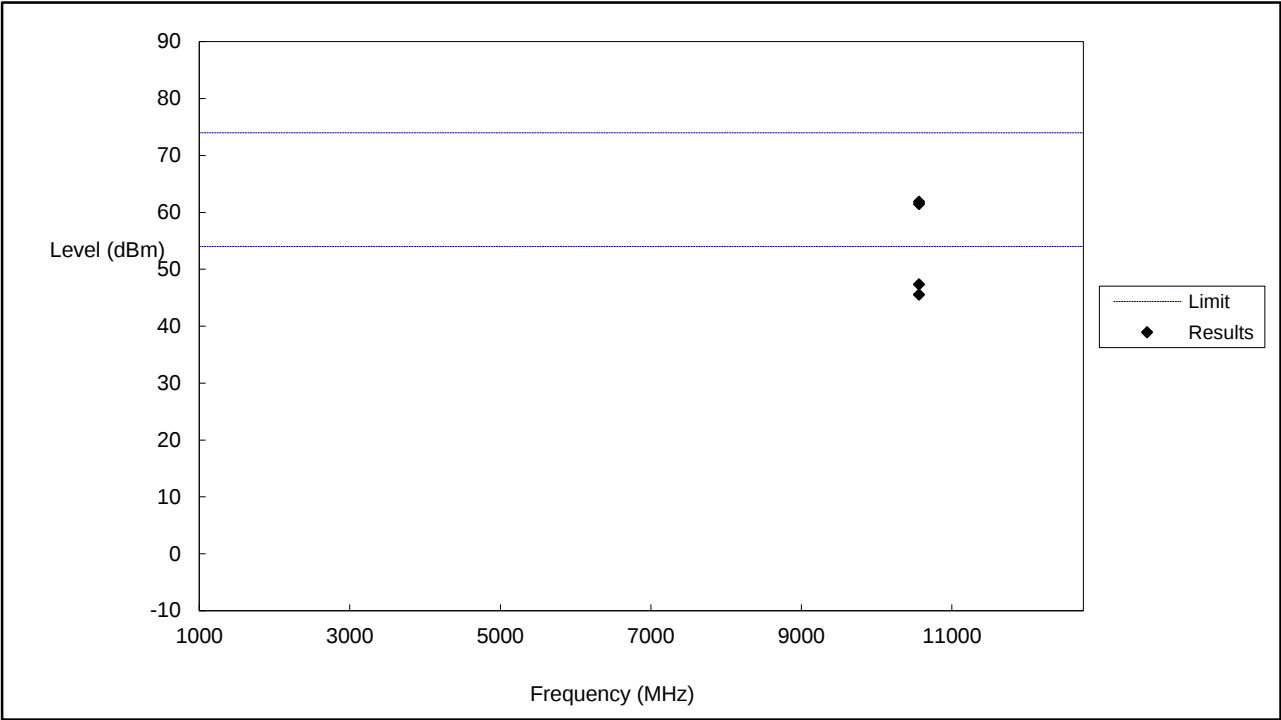
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10480	63.12	74	-10.88	H	RMS
2	10480	45.99	54	-8.01	H	RMS
1	10480	62.10	74	-11.90	V	RMS
2	10480	45.32	54	-8.68	V	RMS

Low Channel (5260MHz)



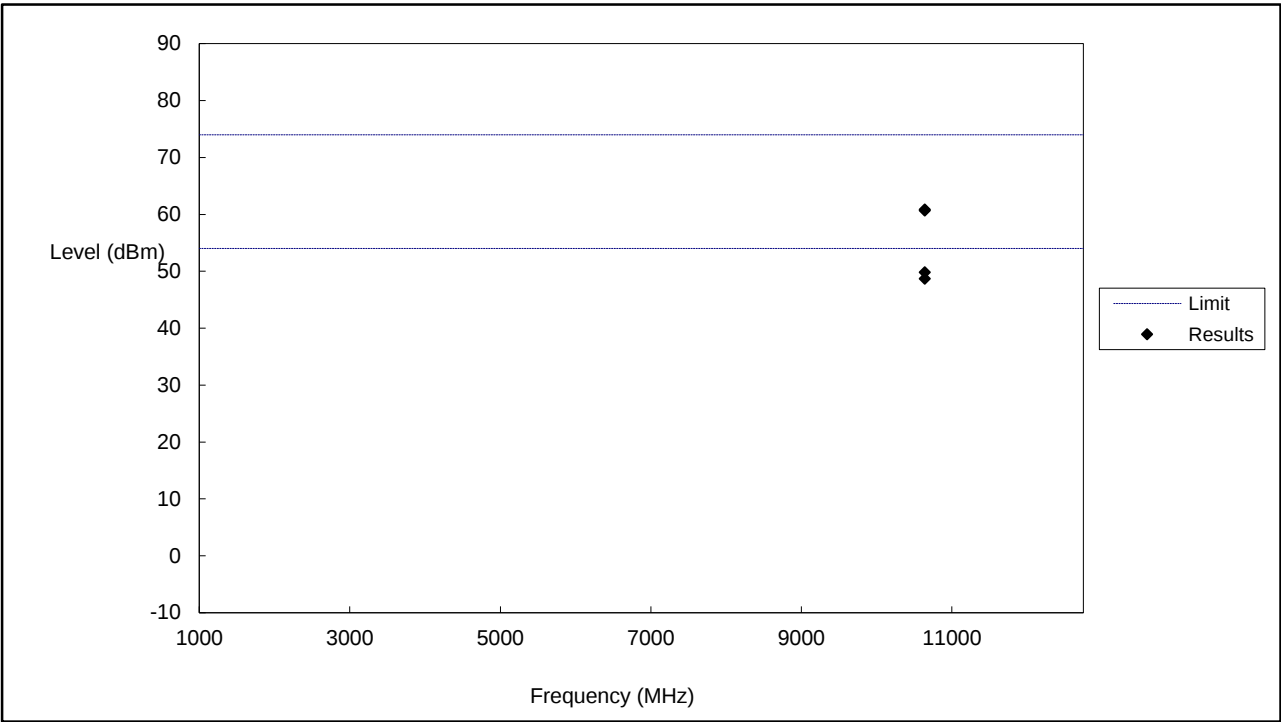
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10520	60.80	74	-13.20	H	RMS
2	10520	48.10	54	-5.90	H	RMS
1	10520	64.44	74	-9.56	V	RMS
2	10520	46.86	54	-7.14	V	RMS

Middle Channel (5280MHz)



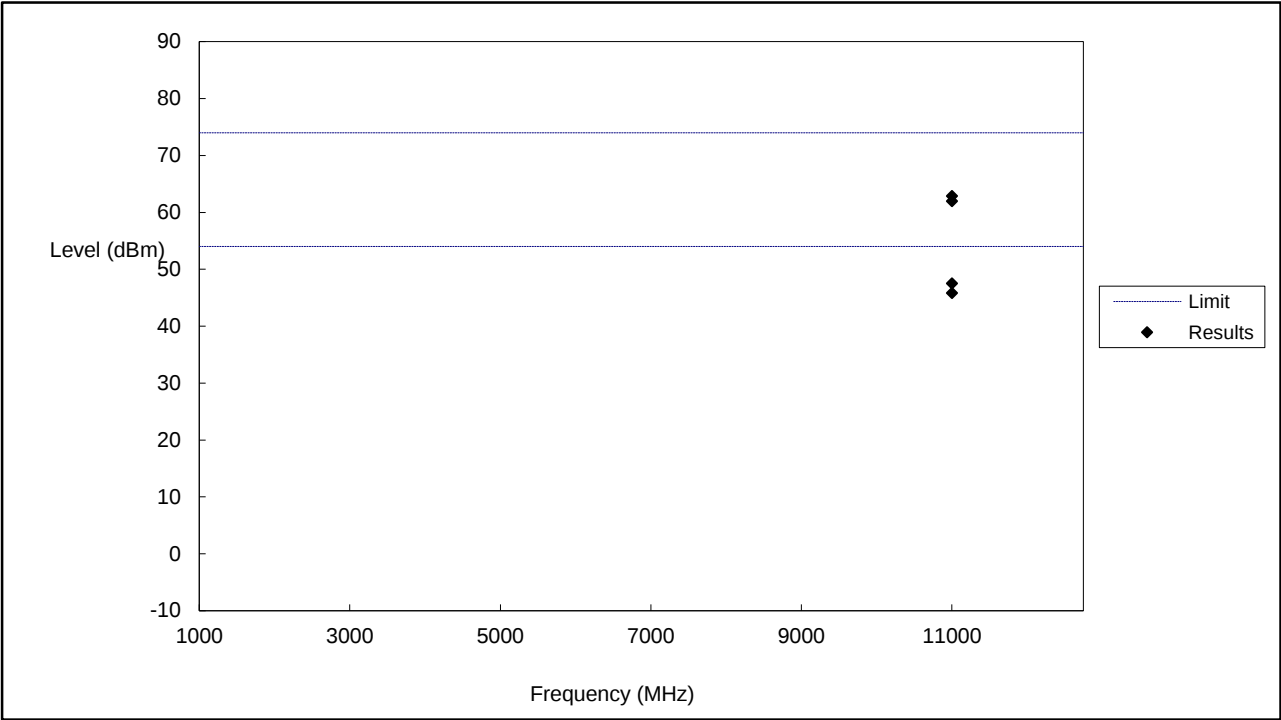
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10560	61.50	74	-12.50	H	RMS
2	10560	47.36	54	-6.64	H	RMS
1	10560	61.87	74	-12.13	V	RMS
2	10560	45.57	54	-8.43	V	RMS

High Channel (5320MHz)



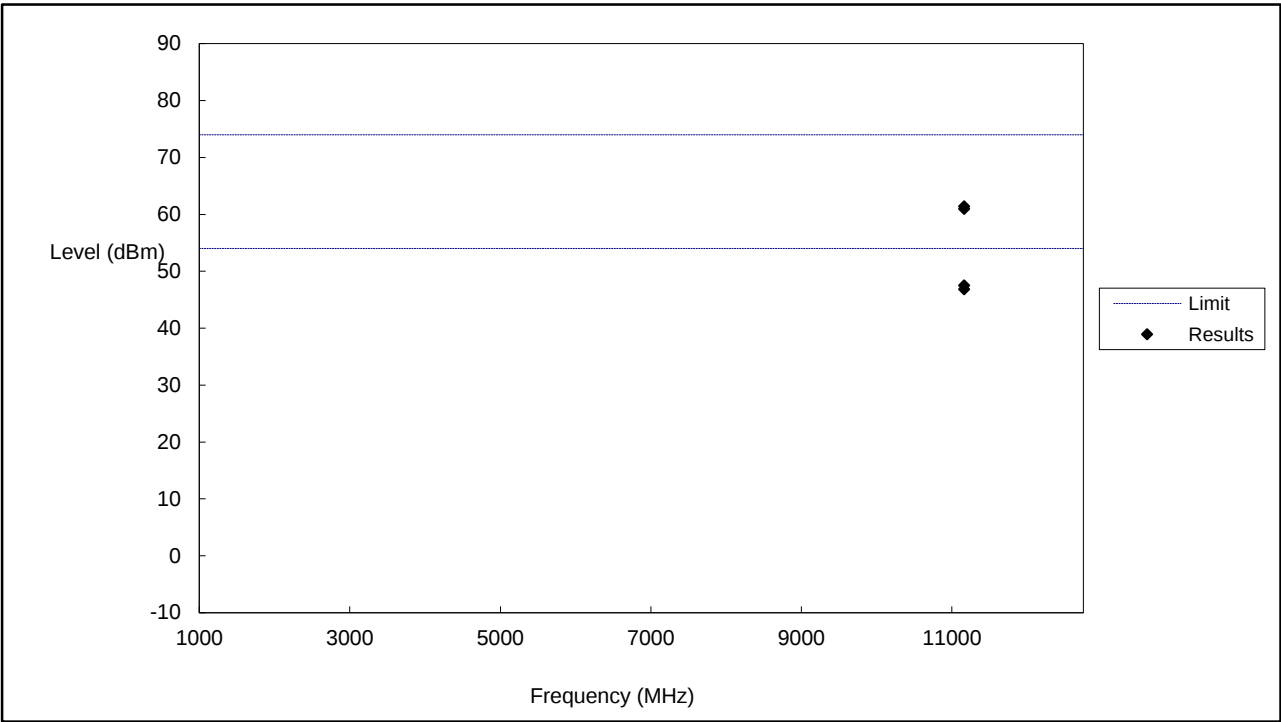
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10640	60.89	74	-13.11	H	RMS
2	10640	48.73	54	-5.27	H	RMS
1	10640	60.69	74	-13.31	V	RMS
2	10640	49.86	54	-4.14	V	RMS

Low Channel (5500MHz)



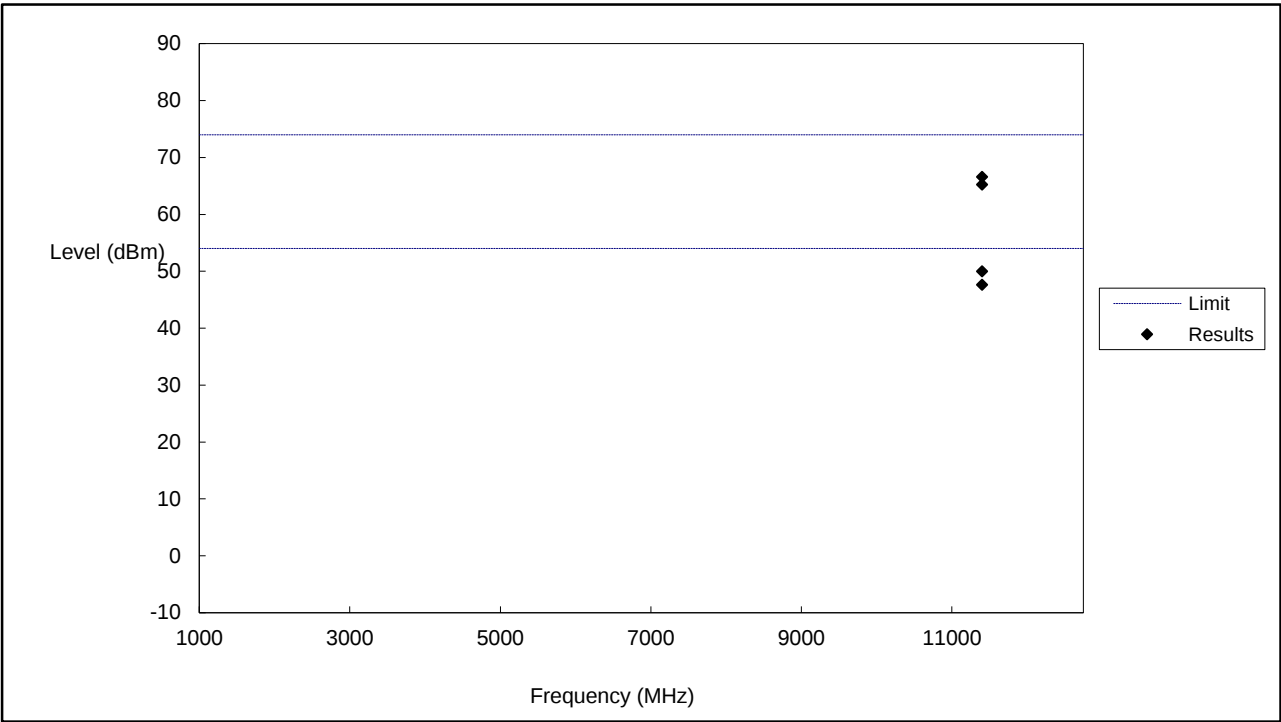
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11000	61.98	74	-12.02	H	RMS
2	11000	45.85	54	-8.15	H	RMS
1	11000	62.91	74	-11.09	V	RMS
2	11000	47.56	54	-6.44	V	RMS

Middle Channel (5580MHz)



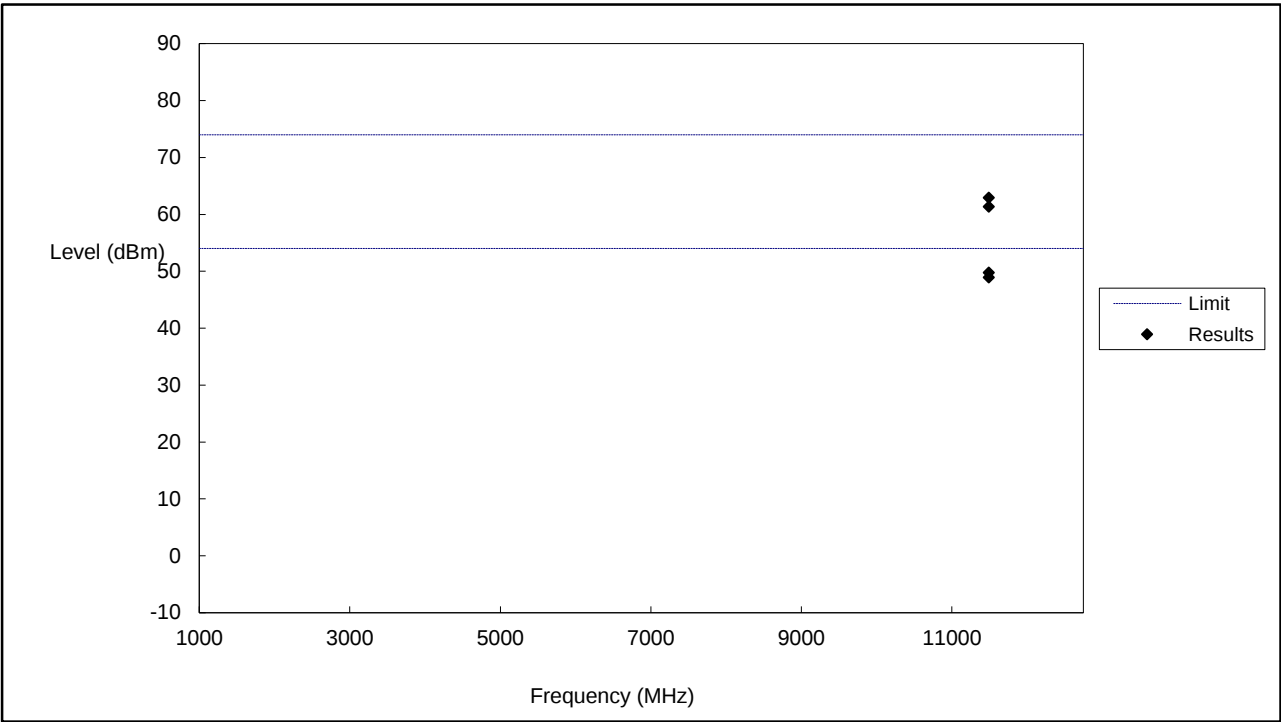
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11160	61.44	74	-12.56	H	RMS
2	11160	47.55	54	-6.45	H	RMS
1	11160	61.00	74	-13.00	V	RMS
2	11160	46.87	54	-7.13	V	RMS

High Channel (5700MHz)



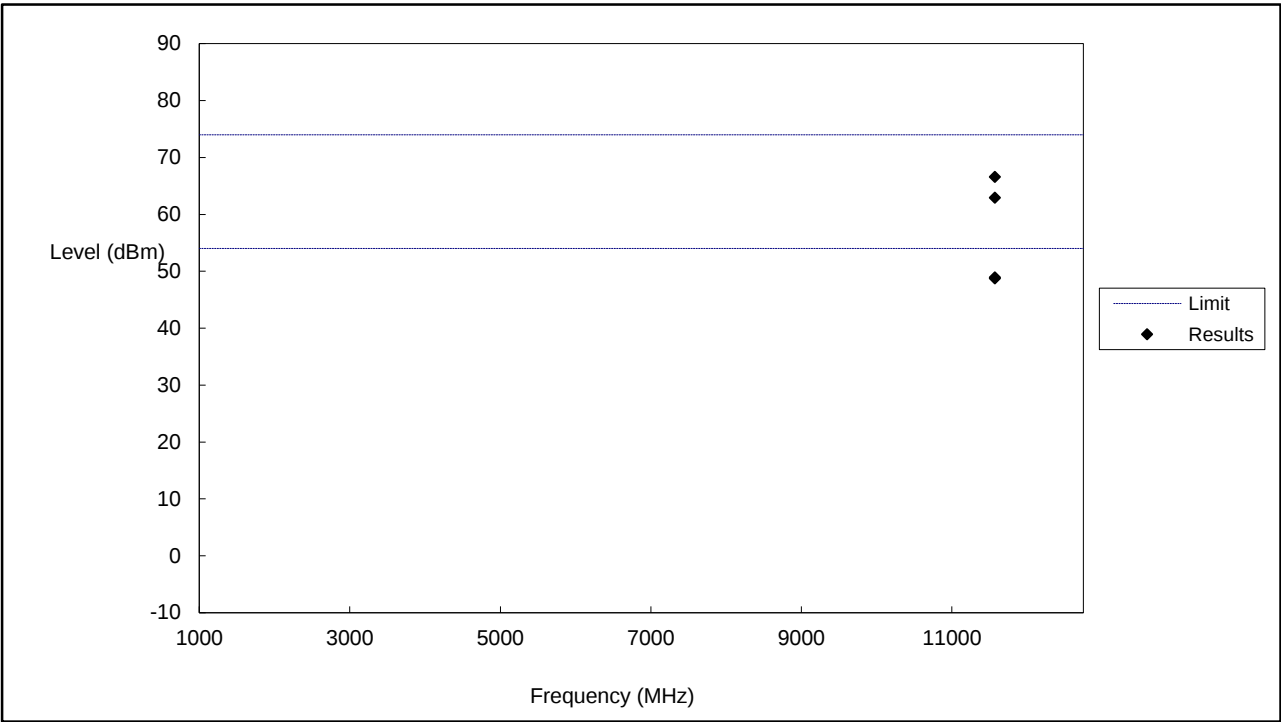
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11400	65.24	74	-8.76	H	RMS
2	11400	47.67	54	-6.33	H	RMS
1	11400	66.63	74	-7.37	V	RMS
2	11400	50.00	54	-4.00	V	RMS

Low Channel (5745MHz)



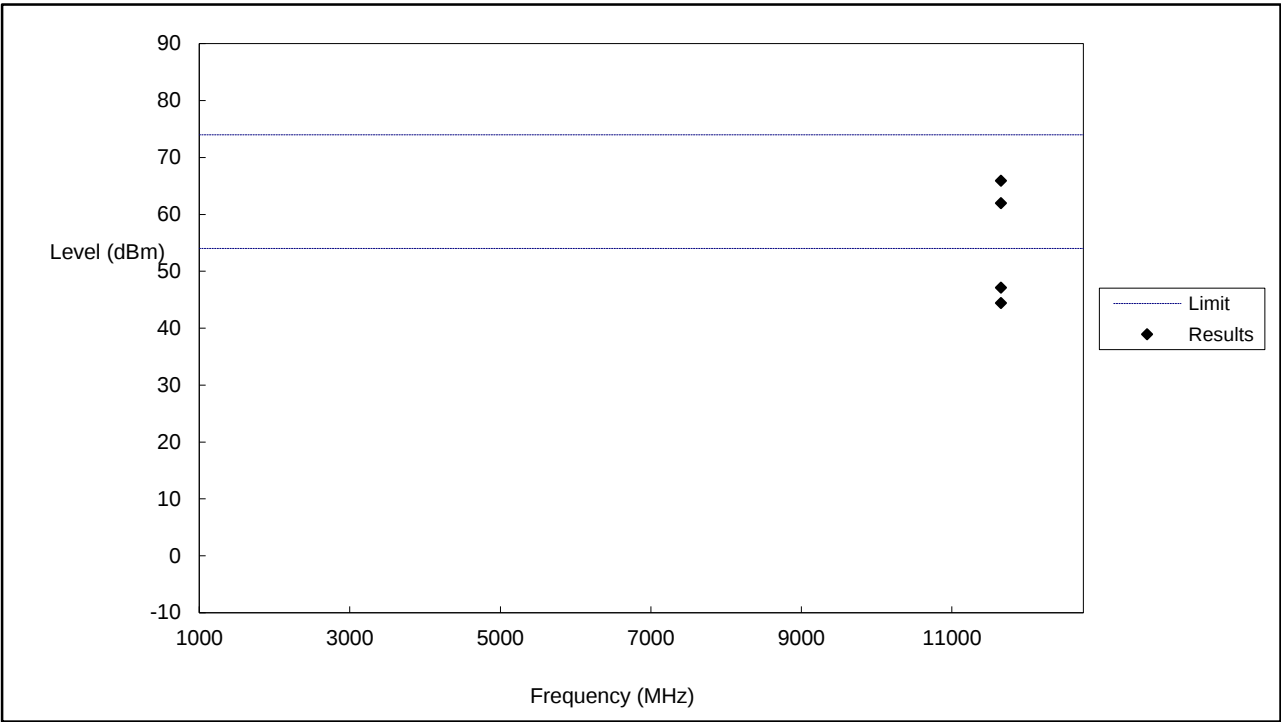
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11490	61.41	74	-12.59	H	RMS
2	11490	48.96	54	-5.04	H	RMS
1	11490	62.95	74	-11.05	V	RMS
2	11490	49.80	54	-4.20	V	RMS

Middle Channel (5785MHz)



No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11570	66.63	74	-7.37	H	RMS
2	11570	48.95	54	-5.05	H	RMS
1	11570	62.98	74	-11.02	V	RMS
2	11570	48.78	54	-5.22	V	RMS

High Channel (5825MHz)



No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11650	65.96	74	-8.04	H	RMS
2	11650	47.17	54	-6.83	H	RMS
1	11650	61.99	74	-12.01	V	RMS
2	11650	44.47	54	-9.53	V	RMS

➤ Out of Band edge 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-39.13	-27
Highest	Above 5350	-41.64	-27

Note: the data just list the worst cases

➤ Out of Band edge for 5250-5350MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-41.84	-27
Highest	Above 5350	-43.19	-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	-37.95	-27
Highest	Above 5725	-38.73	-27

Note: the data just list the worst cases

➤ Out of Band edge for 5725-5850MHz

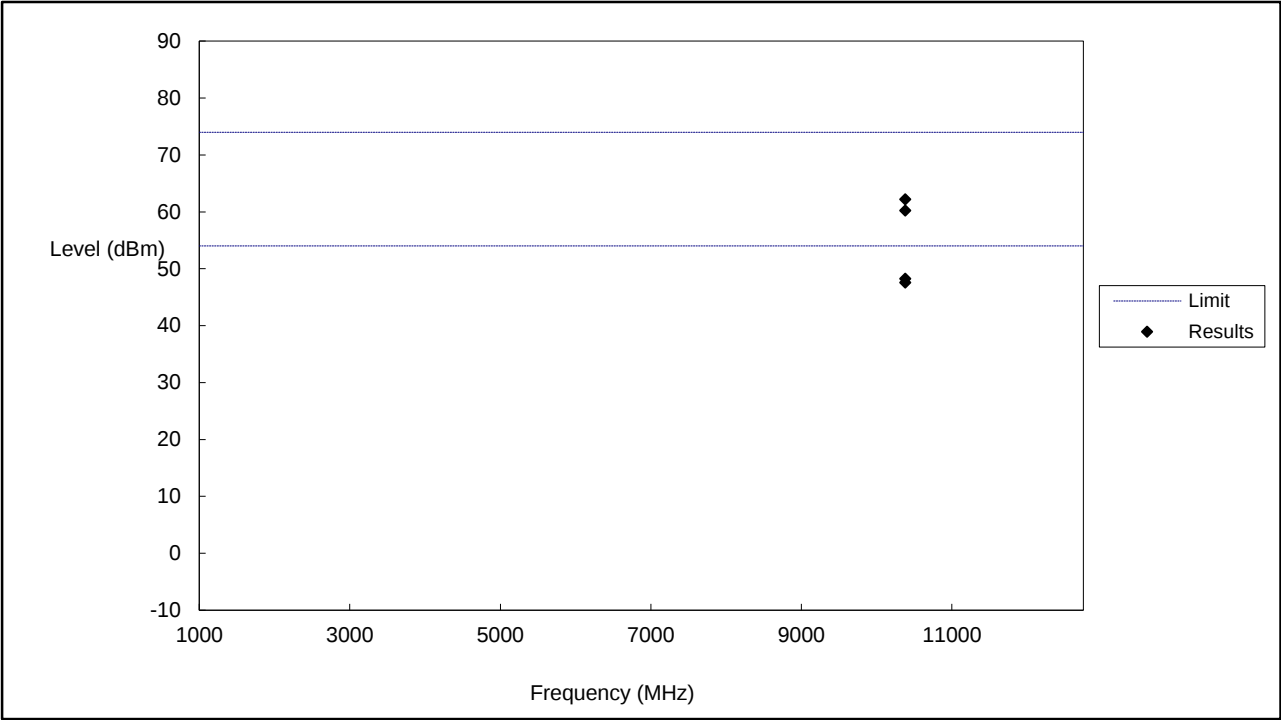
Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5650	-45.67	-27
	5650 to 5700	-36.23	-27 to -17
	5700 to 5720	-28.23	-17 to 15.6
	5720 to 5725	-17.71	15.6 to 27
Highest	5850 to 5855	-15.61	27 to 15.6
	5855 to 5875	-27.02	15.6 to -17
	5875 to 5925	-35.92	-17 to -27
	Above 5925	-39.50	-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.

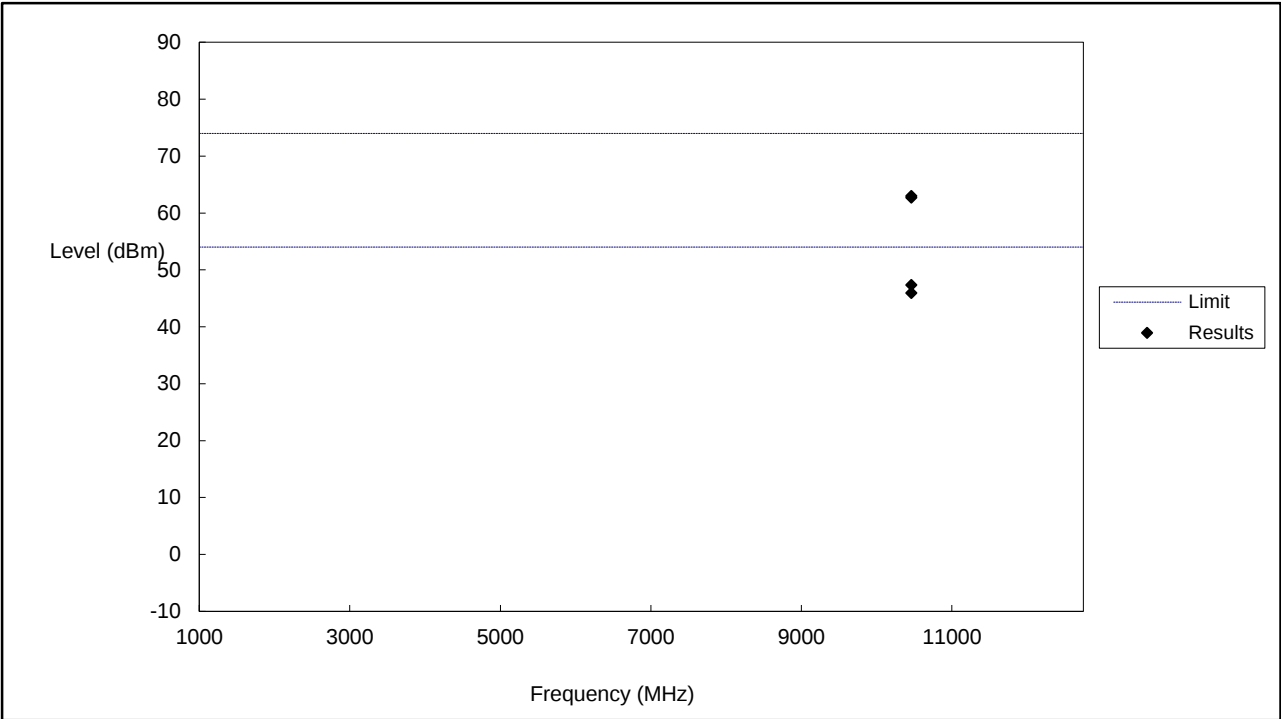
- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11n HT40)
- Harmonics And Spurious Emissions

Low Channel (5190MHz)



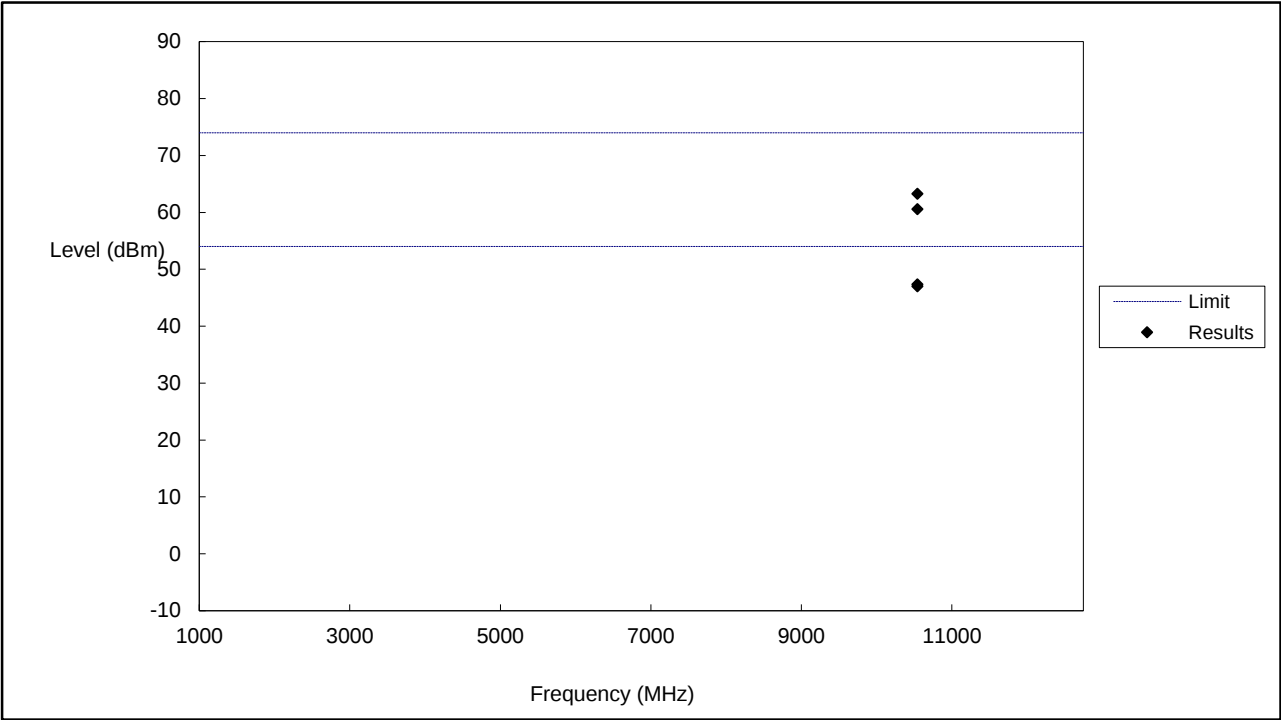
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10380	60.28	74	-13.72	H	RMS
2	10380	47.61	54	-6.39	H	RMS
1	10380	62.23	74	-11.77	V	RMS
2	10380	48.29	54	-5.71	V	RMS

High Channel (5230MHz)



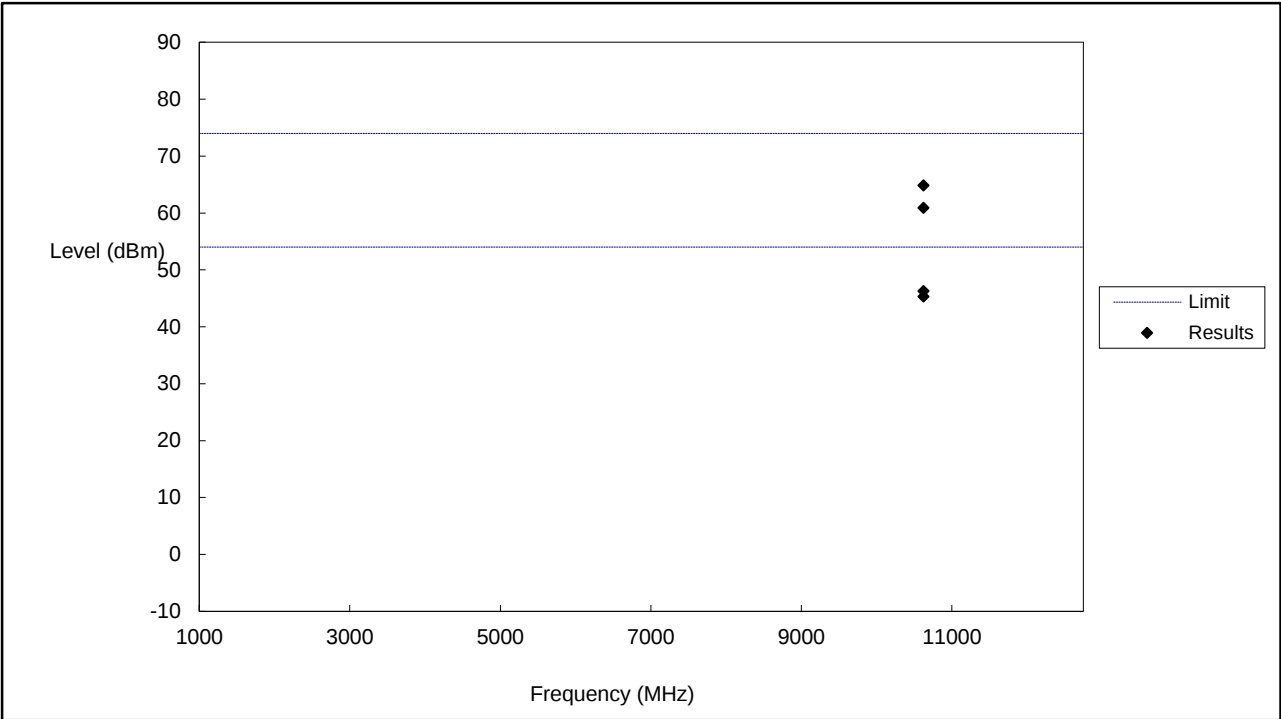
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10460	62.75	74	-11.25	H	RMS
2	10460	47.36	54	-6.64	H	RMS
1	10460	63.02	74	-10.98	V	RMS
2	10460	45.95	54	-8.05	V	RMS

Low Channel (5270MHz)



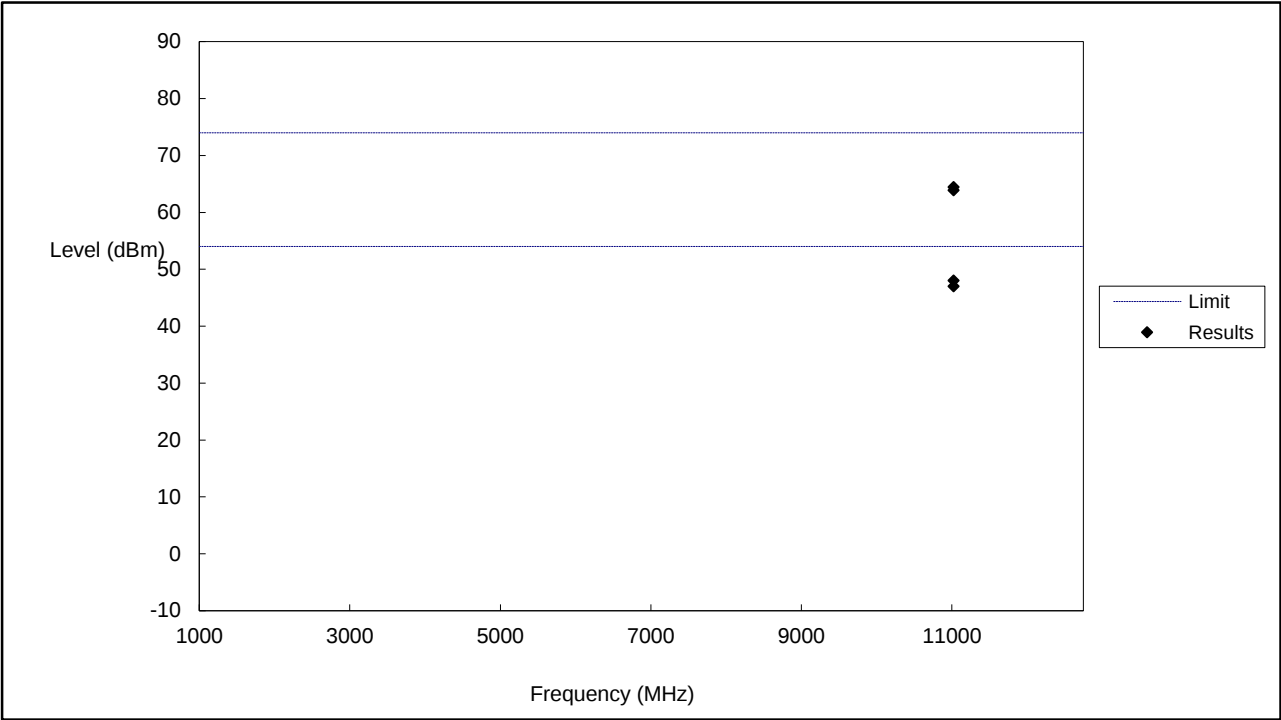
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10540	60.60	74	-13.40	H	RMS
2	10540	47.37	54	-6.63	H	RMS
1	10540	63.31	74	-10.69	V	RMS
2	10540	47.06	54	-6.94	V	RMS

High Channel (5310MHz)



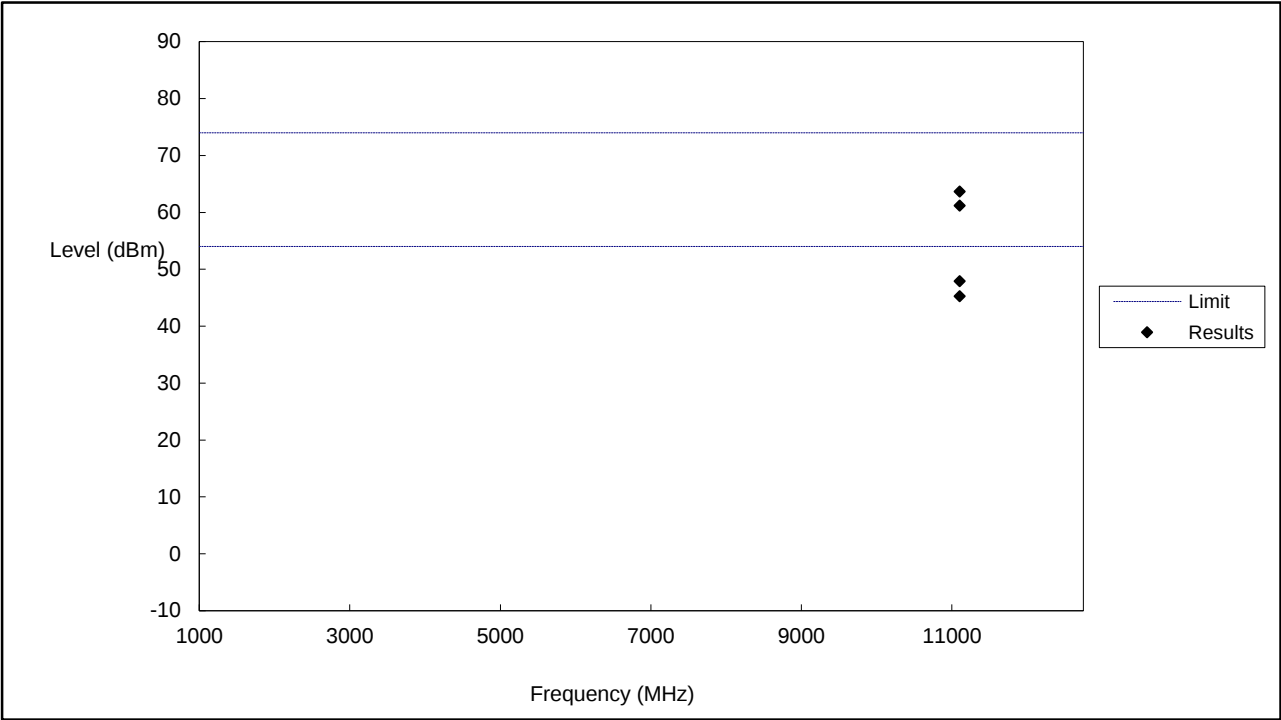
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10620	60.93	74	-13.07	H	RMS
2	10620	45.34	54	-8.66	H	RMS
1	10620	64.85	74	-9.15	V	RMS
2	10620	46.29	54	-7.71	V	RMS

Low Channel (5510MHz)



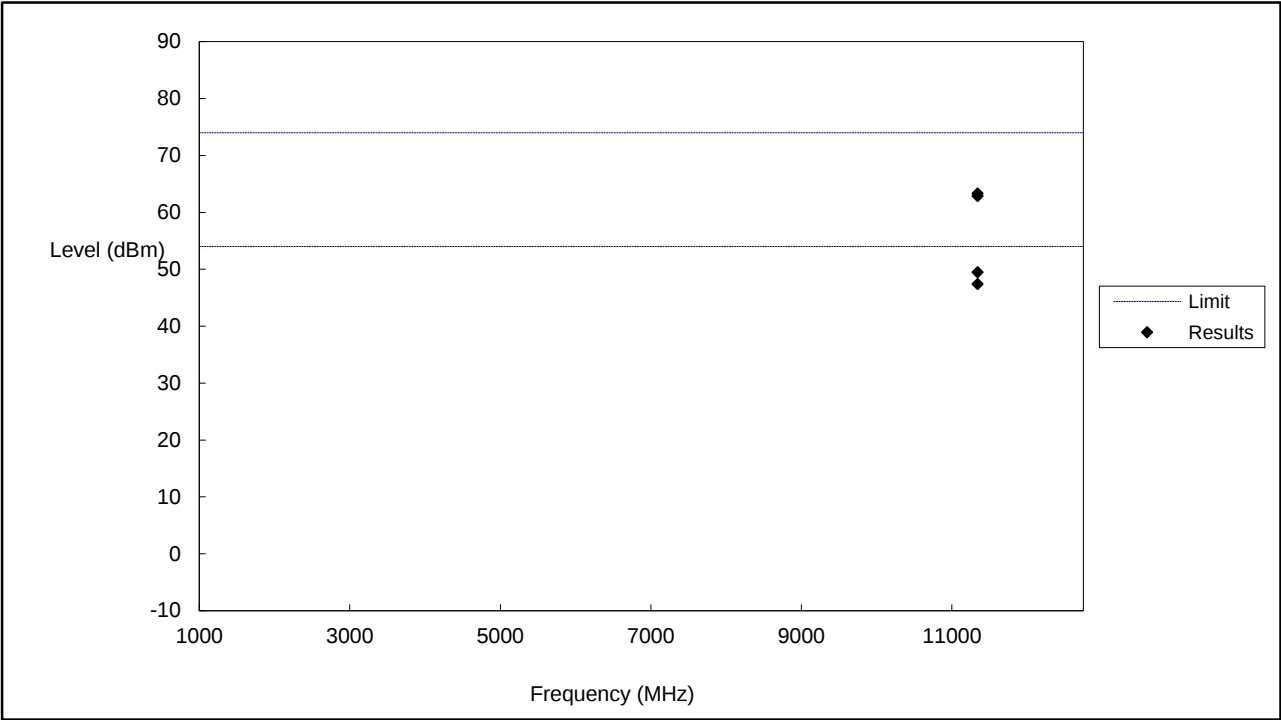
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11020	63.89	74	-10.11	H	RMS
2	11020	47.01	54	-6.99	H	RMS
1	11020	64.49	74	-9.51	V	RMS
2	11020	48.05	54	-5.95	V	RMS

Middle Channel (5550MHz)



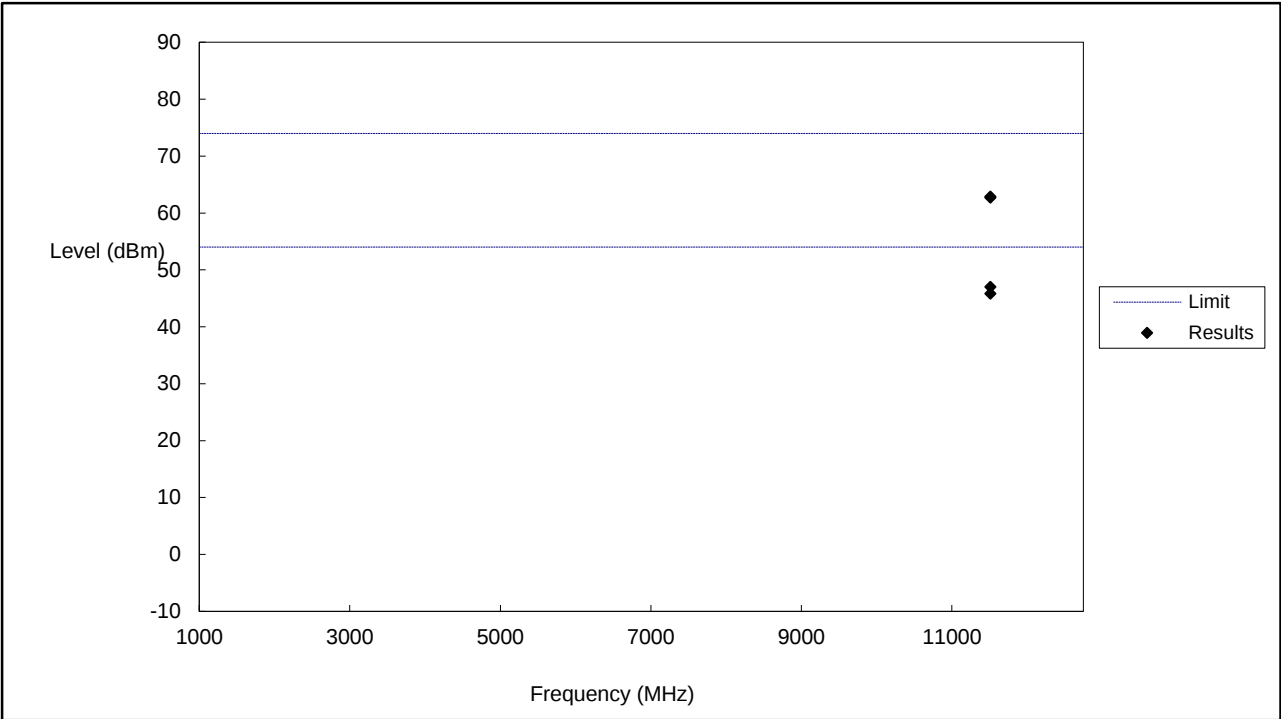
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11100	61.22	74	-12.78	H	RMS
2	11100	47.95	54	-6.05	H	RMS
1	11100	63.67	74	-10.33	V	RMS
2	11100	45.27	54	-8.73	V	RMS

High Channel (5670MHz)



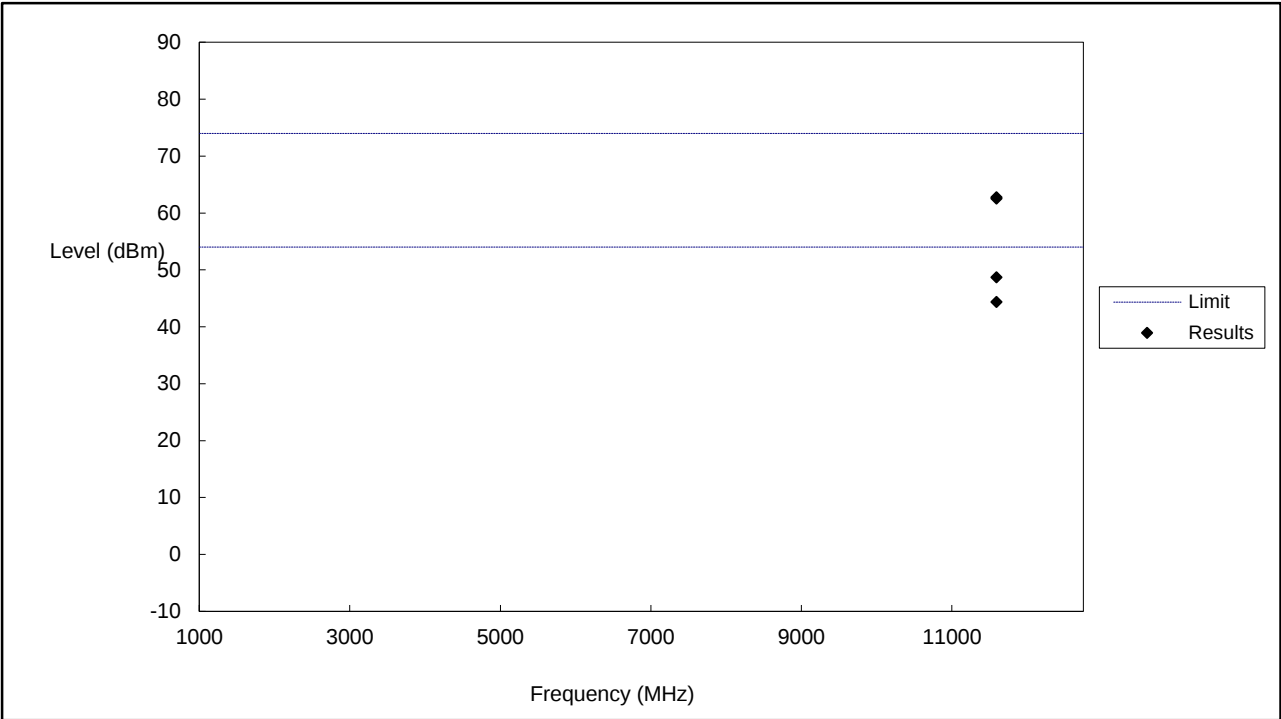
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11340	62.89	74	-11.11	H	RMS
2	11340	47.41	54	-6.59	H	RMS
1	11340	63.34	74	-10.66	V	RMS
2	11340	49.54	54	-4.46	V	RMS

Low Channel (5755MHz)



No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11510	62.73	74	-11.27	H	RMS
2	11510	47.06	54	-6.94	H	RMS
1	11510	62.92	74	-11.08	V	RMS
2	11510	45.84	54	-8.16	V	RMS

High Channel (5795MHz)



No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11590	62.54	74	-11.46	H	RMS
2	11590	48.75	54	-5.25	H	RMS
1	11590	62.80	74	-11.20	V	RMS
2	11590	44.42	54	-9.58	V	RMS

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-40.28	-27
Highest	Above 5350	-37.73	-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	-36.97	-27
Highest	Above 5350	-36.54	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5470-5725MHz

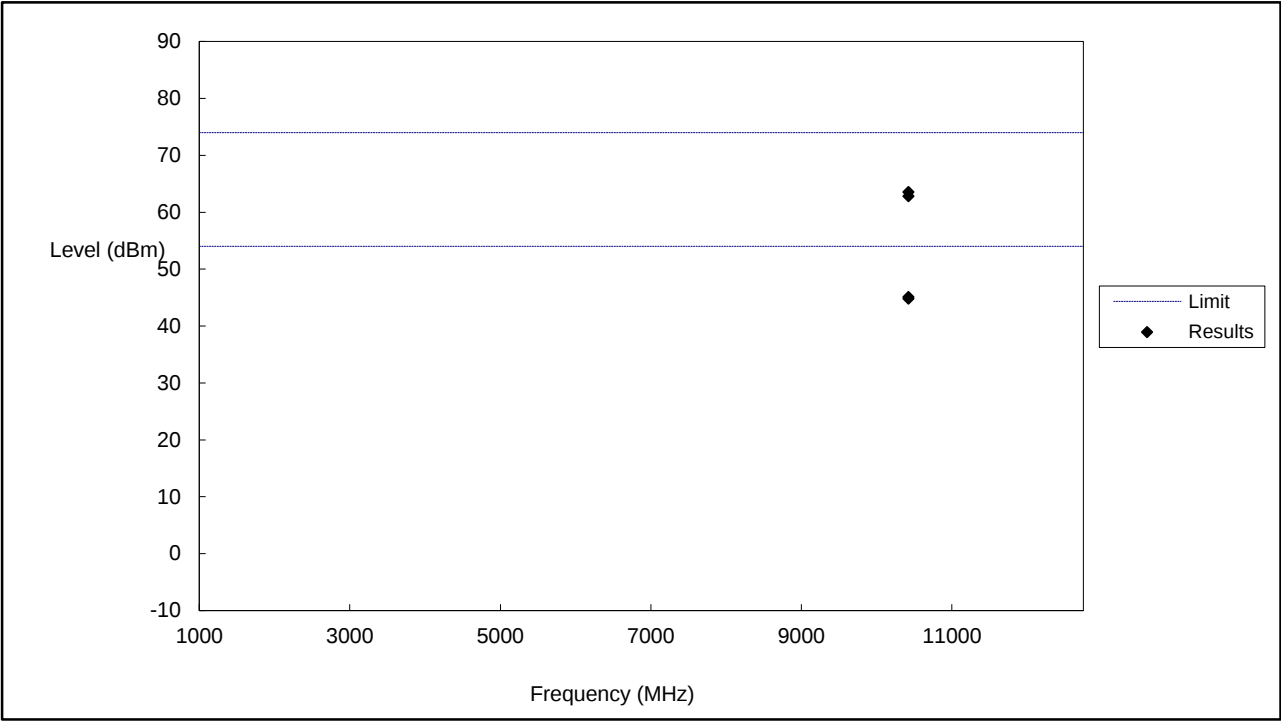
Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5470	-35.01	-27
Highest	Above 5725	-37.43	-27
Note: the data just list the worst cases			

➤ Out of Band edge for 5725-5850MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5650	-46.63	-27
	5650 to 5700	-37.04	-27 to -17
	5700 to 5720	-28.01	-17 to 15.6
	5720 to 5725	-19.08	15.6 to 27
Highest	5850 to 5855	-14.18	27 to 15.6
	5855 to 5875	-27.02	15.6 to -17
	5875 to 5925	-34.02	-17 to -27
	Above 5925	-39.96	-27
Note: the data just list the worst cases			

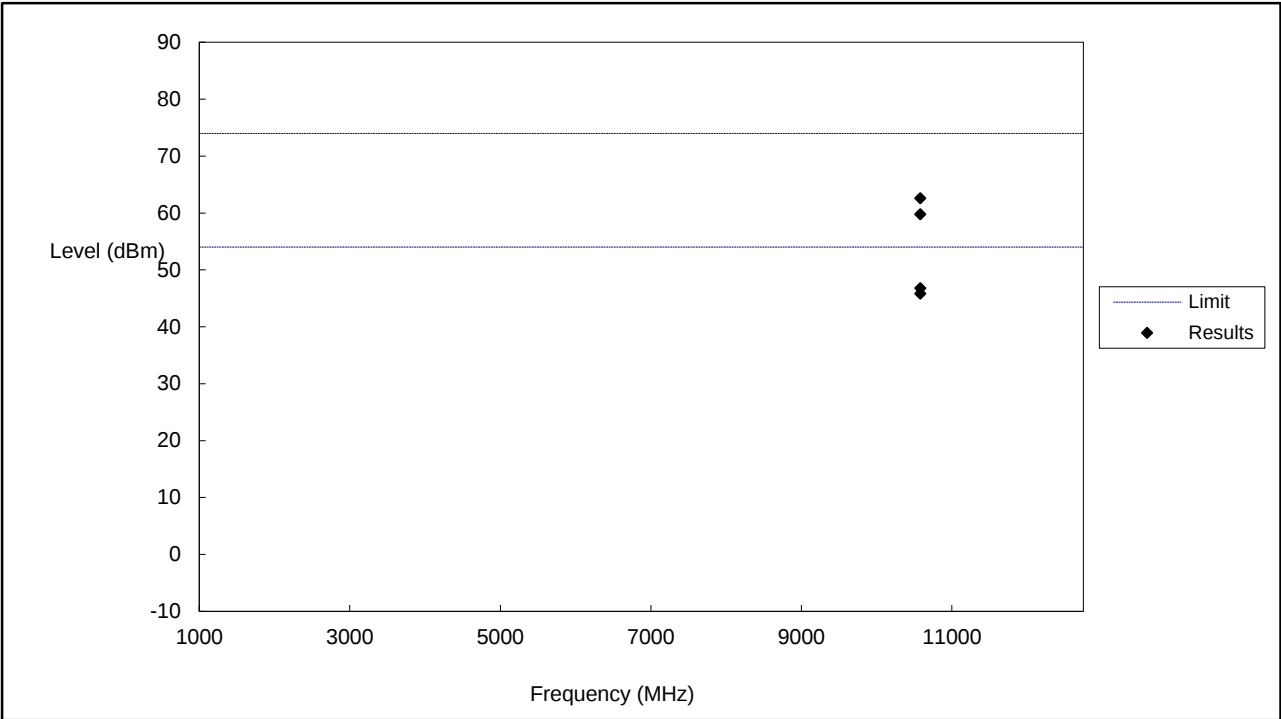
- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11ac-VHT80)
- Harmonics And Spurious Emissions

5210MHz



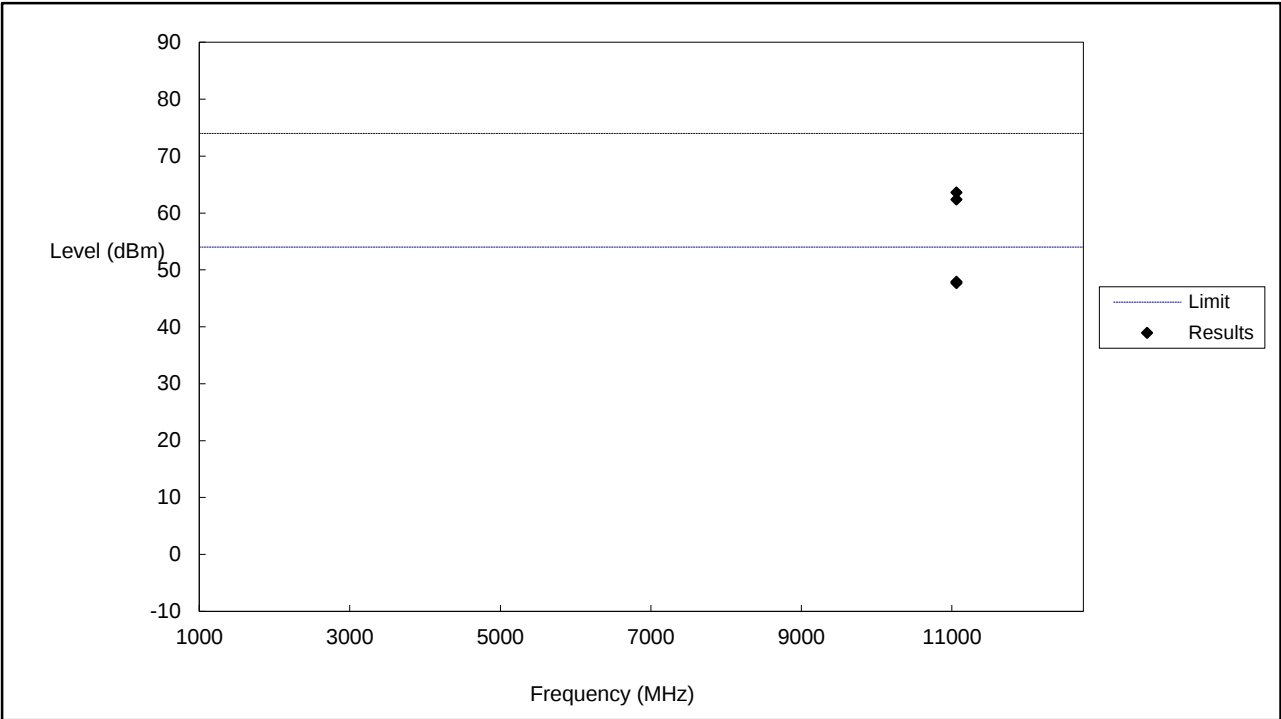
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10420	62.87	74	-11.13	H	RMS
2	10420	44.82	54	-9.18	H	RMS
1	10420	63.58	74	-10.42	V	RMS
2	10420	45.11	54	-8.89	V	RMS

5290MHz



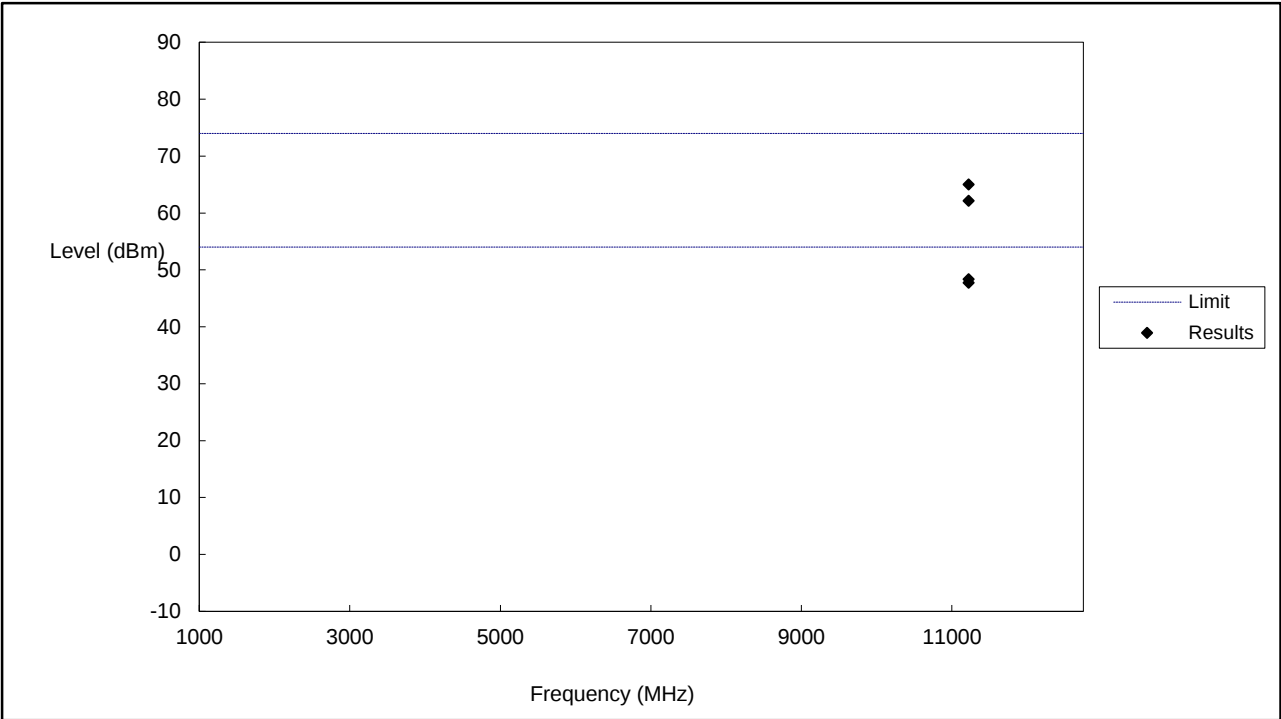
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	10580	62.60	74	-11.40	H	RMS
2	10580	45.84	54	-8.16	H	RMS
1	10580	59.79	74	-14.21	V	RMS
2	10580	46.81	54	-7.19	V	RMS

Low Channel (5530MHz)



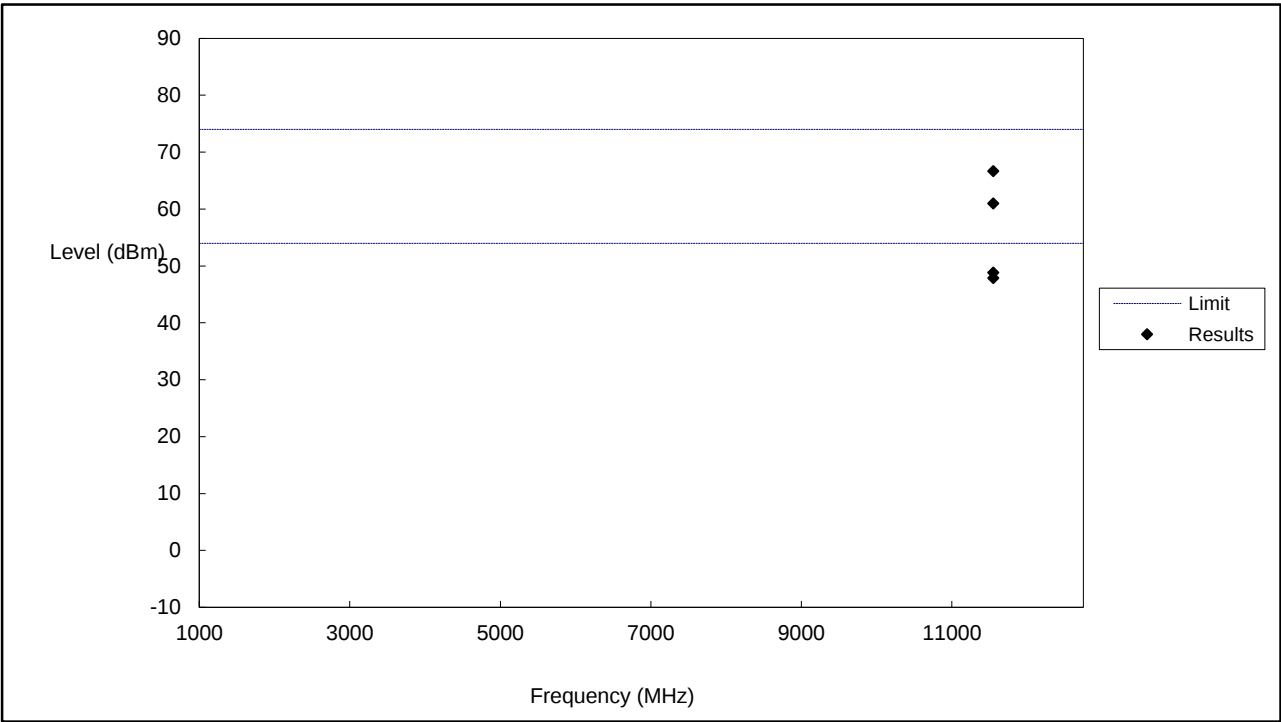
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11060	63.66	74	-10.34	H	RMS
2	11060	47.69	54	-6.31	H	RMS
1	11060	62.38	74	-11.62	V	RMS
2	11060	47.96	54	-6.04	V	RMS

High Channel (5610MHz)



No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11220	62.17	74	-11.83	H	RMS
2	11220	47.77	54	-6.23	H	RMS
1	11220	65.03	74	-8.97	V	RMS
2	11220	48.41	54	-5.59	V	RMS

5775MHz



No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBm)	(dBm)	(dB)		
1	11550	66.68	74	-7.32	H	RMS
2	11550	47.89	54	-6.11	H	RMS
1	11550	60.98	74	-13.02	V	RMS
2	11550	48.85	54	-5.15	V	RMS

➤ Out of Band edge for 5150-5250MHz

Test CH.	Test Segment	Result	Limit
	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-37.73	-27
Highest	Above 5350	-36.49	-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	-37.65	-27
Highest	Above 5350	-36.64	-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	-40.00	-27
Highest	Above 5725	-36.37	-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	-45.55	-27
	5650 to 5700	-35.71	-27 to -17
	5700 to 5720	-29.34	-17 to 15.6
	5720 to 5725	-18.90	15.6 to 27
Highest	5850 to 5855	-14.92	27 to 15.6
	5855 to 5875	-26.40	15.6 to -17
	5875 to 5925	-35.30	-17 to -27
	Above 5925	-39.70	-27
Note: the data just list the worst cases			

Note: Testing is carried out with frequency rang 30MHz to 40GHz, which above 3th Harmonics 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

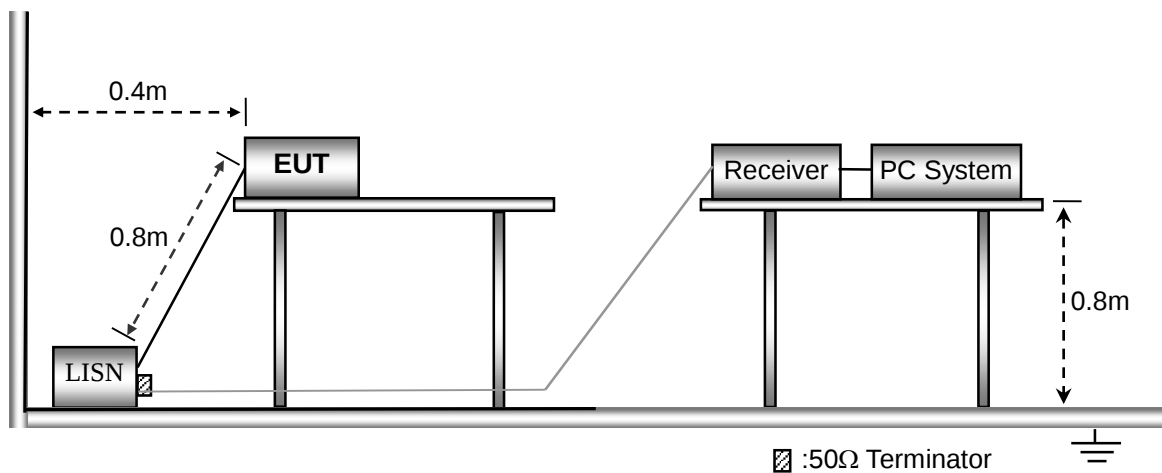
10 Conducted Emissions

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



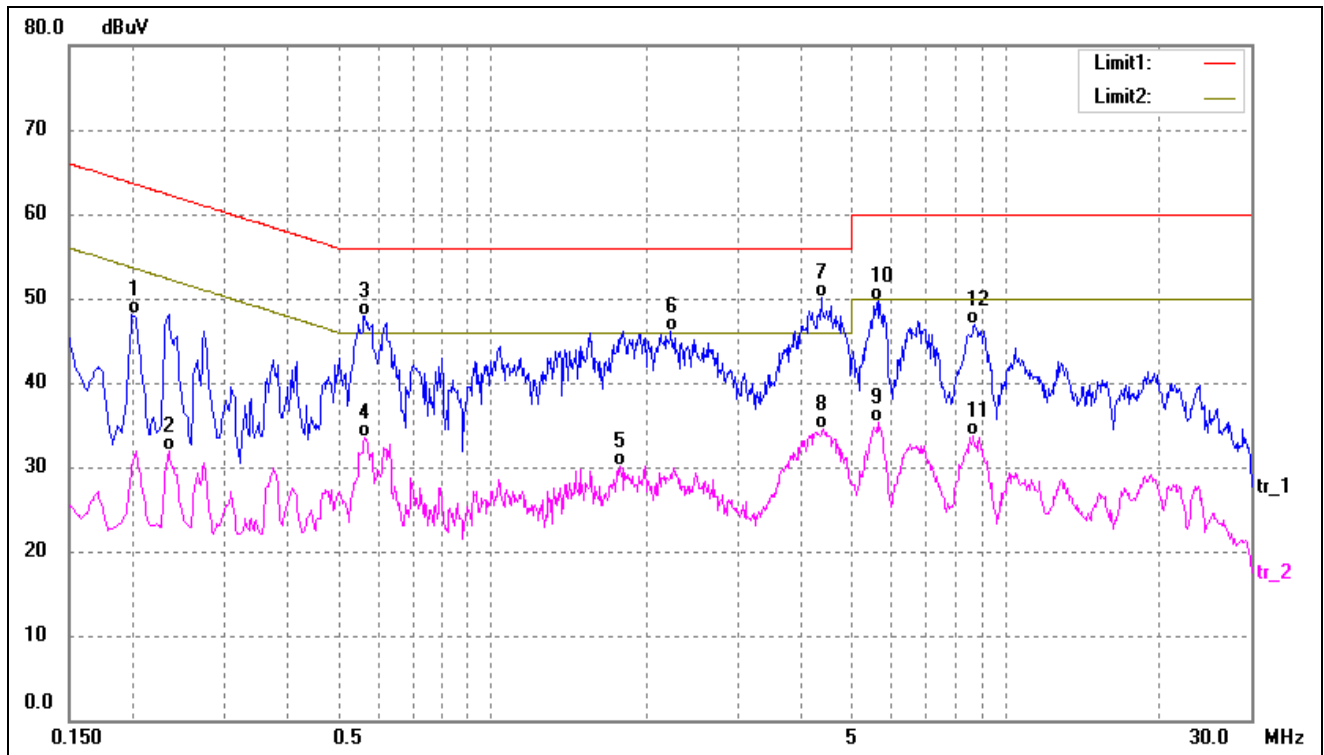
10.3 Test Receiver Setup

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

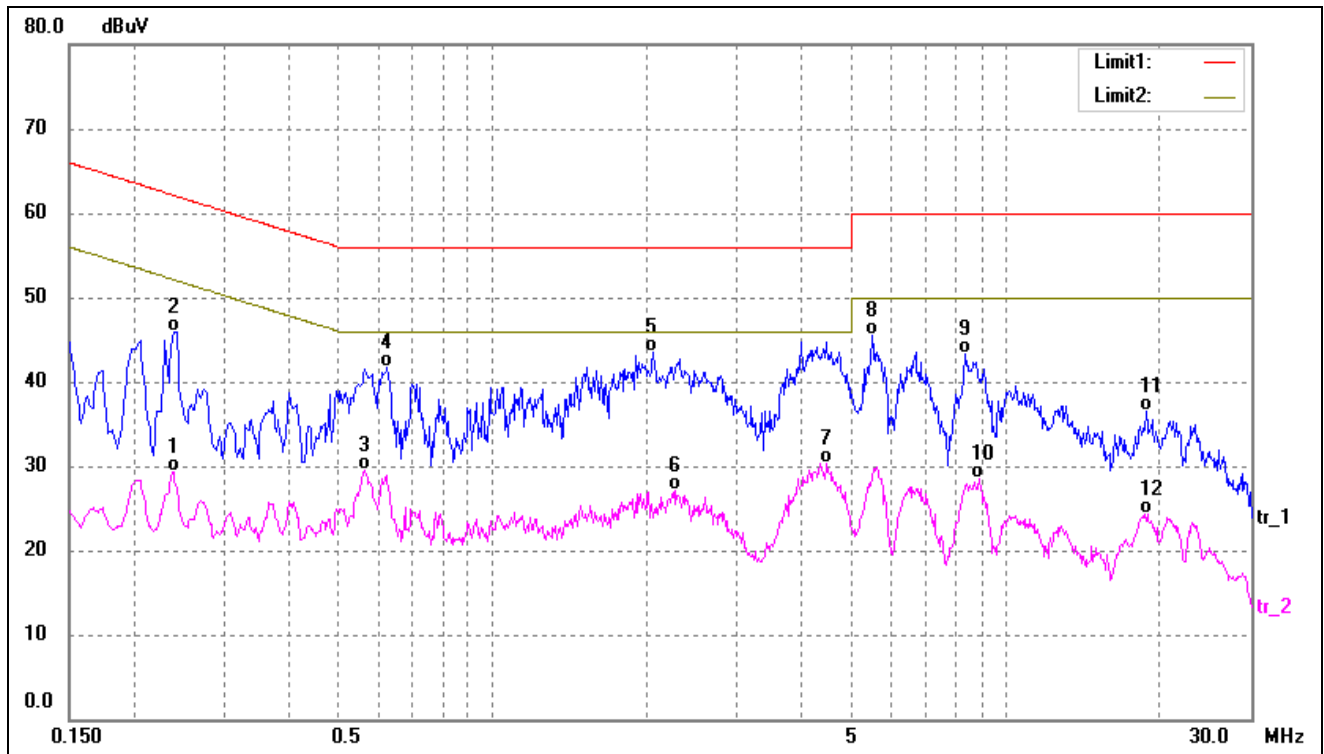
10.4 Summary of Test Results/Plots

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	0.1980	37.85	10.30	48.15	63.69	-15.54	QP
2	0.2340	21.67	10.27	31.94	52.30	-20.36	AVG
3	0.5660	37.77	10.21	47.98	56.00	-8.02	QP
4	0.5660	23.26	10.21	33.47	46.00	-12.53	AVG
5	1.7780	19.93	10.23	30.16	46.00	-15.84	AVG
6	2.2300	35.82	10.26	46.08	56.00	-9.92	QP
7*	4.3659	39.74	10.31	50.05	56.00	-5.95	QP
8	4.4300	24.14	10.31	34.45	46.00	-11.55	AVG
9	5.6260	24.93	10.33	35.26	50.00	-14.74	AVG
10	5.6540	39.29	10.33	49.62	60.00	-10.38	QP
11	8.6740	23.29	10.34	33.63	50.00	-16.37	AVG
12	8.7060	36.57	10.34	46.91	60.00	-13.09	QP

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2380	19.10	10.27	29.37	52.16	-22.79	AVG
2	0.2420	35.63	10.27	45.90	62.02	-16.12	QP
3	0.5660	19.22	10.21	29.43	46.00	-16.57	AVG
4	0.6260	31.52	10.20	41.72	56.00	-14.28	QP
5*	2.0579	33.20	10.25	43.45	56.00	-12.55	QP
6	2.2740	16.88	10.26	27.14	46.00	-18.86	AVG
7	4.4860	19.99	10.32	30.31	46.00	-15.69	AVG
8	5.4780	35.08	10.33	45.41	60.00	-14.59	QP
9	8.3420	32.90	10.34	43.24	60.00	-16.76	QP
10	8.9020	18.06	10.35	28.41	50.00	-21.59	AVG
11	18.7260	26.26	10.33	36.59	60.00	-23.41	QP
12	18.8940	13.99	10.34	24.33	50.00	-25.67	AVG

APPENDIX SUMMARY

Project No.	WTX22X12264635W	Test Engineer	BAldi Zhong
Start date	2023/4/10	Finish date	2023/4/24
Temperature	25℃	Humidity	49%
RF specifications	U-NII		

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

APPENDIX A

Power Spectral Density					
U-NII-1:5150-5250MHz					
Operating mode	Test Channel	ANT 1 dBm/MHz	ANT 2 dBm/MHz	Total dBm/MHz	Limit (dBm/MHz)
802.11a	5180	2.78	3.43	/	11
	5200	2.70	3.52	/	11
	5240	3.67	2.89	/	11
802.11n-HT20	5180	2.45	3.55	6.05	11
	5200	2.83	3.43	6.15	11
	5240	3.69	3.15	6.44	11
802.11n-HT40	5190	-1.25	-0.78	2.00	11
	5230	-0.59	-1.14	2.15	11
802.11ac-VHT80	5210	-3.90	-3.70	-0.79	11

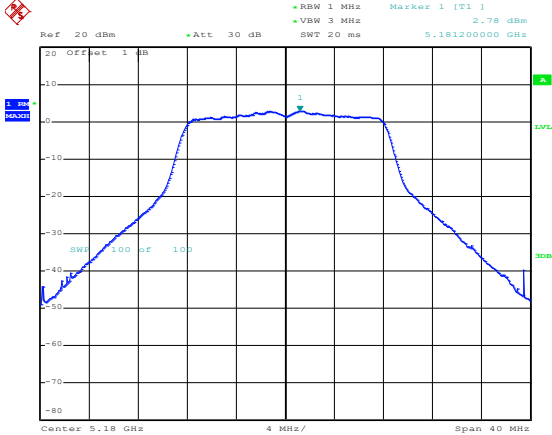
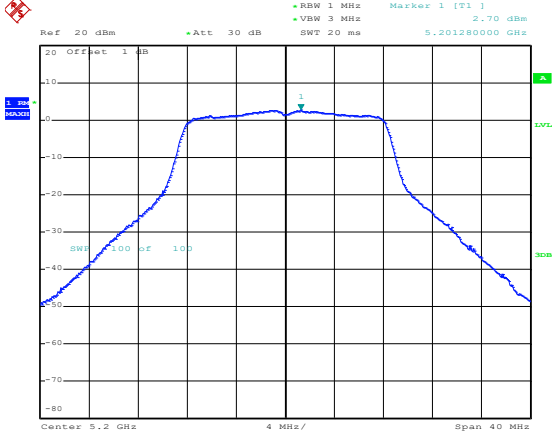
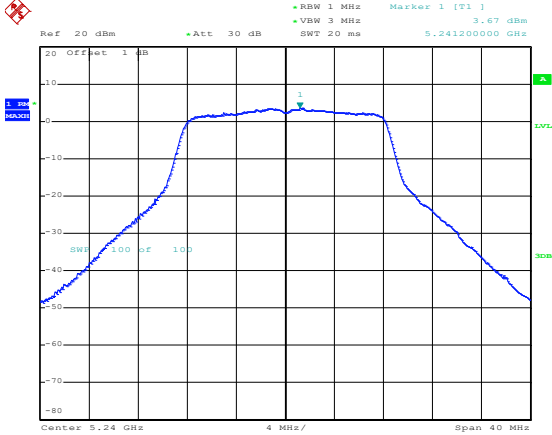
Power Spectral Density					
U-NII-2A: 5250-5350MHz					
Operating mode	Test Channel	ANT 1 dBm/MHz	ANT 2 dBm/MHz	Total dBm/MHz	Limit (dBm/MHz)
802.11a	5260	1.76	1.03	/	11
	5280	2.02	1.13	/	11
	5320	1.27	1.15	/	11
802.11n-HT20	5260	2.07	1.29	4.71	11
	5280	2.24	1.26	4.79	11
	5320	1.42	1.12	4.28	11
802.11n-HT40	5270	-1.84	-1.93	1.13	11
	5310	-2.31	-2.03	0.84	11
802.11ac-VHT80	5290	-4.84	-5.68	-2.23	11

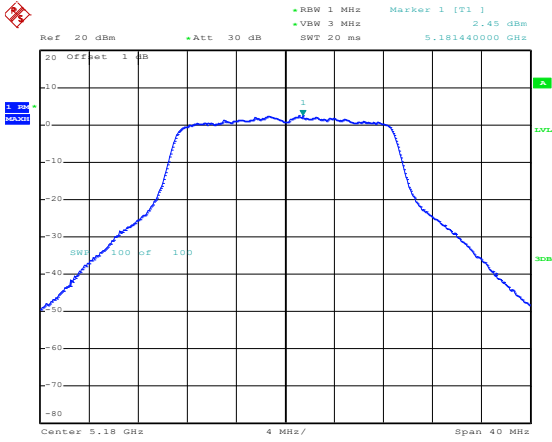
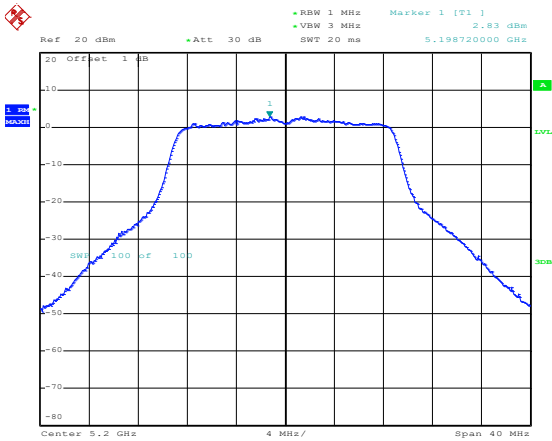
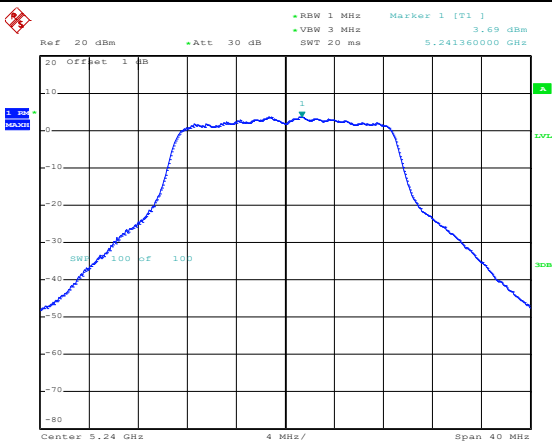
Power Spectral Density					
U-NII-2C: 5470-5725MHz					
Operating mode	Test Channel	ANT 1 dBm/MHz	ANT 2 dBm/MHz	Total dBm/MHz	Limit (dBm/MHz)
802.11a	5500	-0.25	2.42	/	11
	5580	0.70	4.12	/	11
	5700	0.20	1.95	/	11
802.11n-HT20	5500	-0.21	1.67	3.84	11
	5580	0.60	3.26	5.14	11
	5700	0.27	0.88	3.60	11
802.11n-HT40	5510	-3.26	-2.52	0.14	11
	5550	-2.68	-1.14	1.17	11
	5670	-2.36	-2.92	0.38	11
802.11ac-VHT80	5530	-6.39	-5.81	-3.08	11
	5610	-5.11	-4.74	-1.91	11

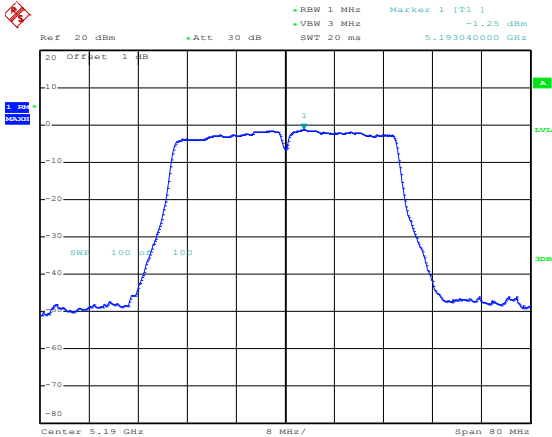
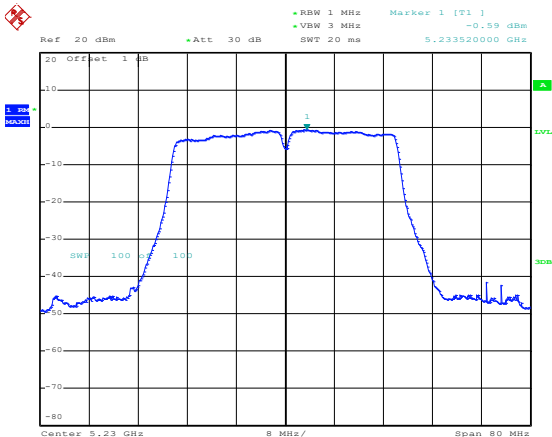
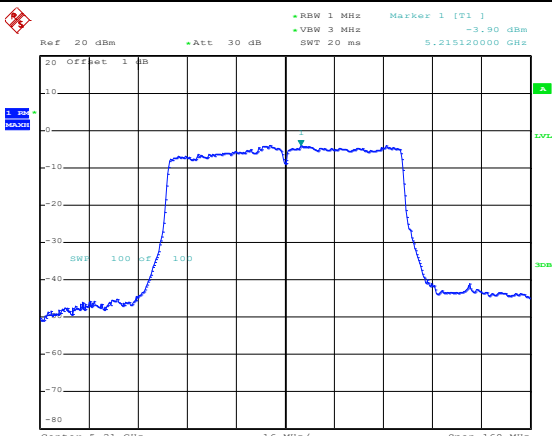
Power Spectral Density							
U-NII-3: 5725-5850MHz							
Operating mode	Test Channel	ANT 1 dBm/300kHz	ANT 2 dBm/300kHz	Factor	ANT 1 dBm/500kHz*	ANT 2 dBm/500kHz*	Limit dBm/500kHz
802.11a	5745	-2.35	-2.31	2.22	-0.13	-0.09	30
	5785	-3.01	-3.04	2.22	-0.79	-0.82	30
	5825	-3.31	-2.13	2.22	-1.09	0.09	30
*Note: Maximum PSD=PSD(dBm/300kHz)+10log(500kHz/300kHz)=2.22							

Power Spectral Density						
U-NII-3: 5725-5850MHz						
Operating mode	Test Channel	ANT 1 dBm/300kHz	ANT 2 dBm/300kHz	Factor	Total dBm/500kHz*	Limit dBm/500kHz
802.11n-HT20	5745	-1.41	-2.54	2.22	3.29	30
	5785	-2.65	-2.81	2.22	2.5	30
	5825	-3.01	-1.86	2.22	2.83	30
802.11n HT40	5755	-4.93	-5.71	2.22	-0.07	30
	5795	-6.28	-5.77	2.22	-0.79	30
802.11ac VHT80	5775	-8.67	-9.17	2.22	-3.68	30
*Note: Maximum PSD=PSD(dBm/300kHz)+10log(500kHz/300kHz)=2.22						

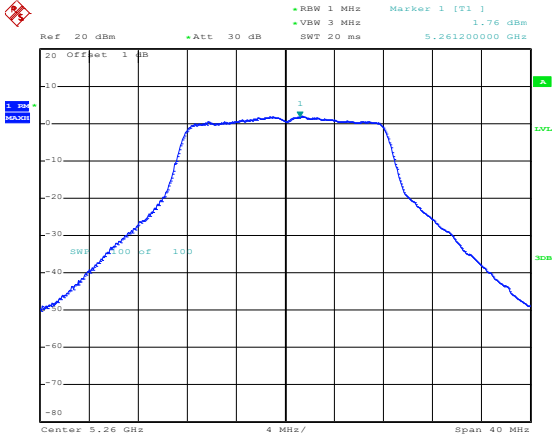
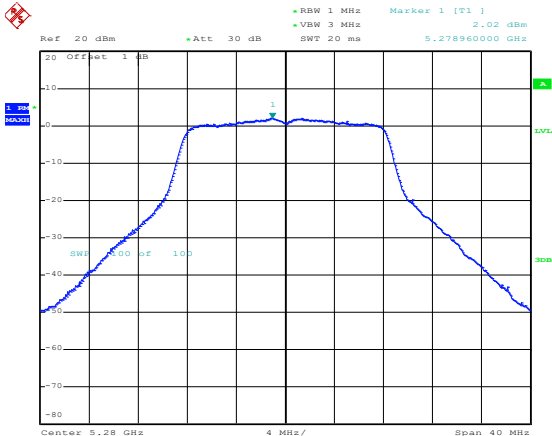
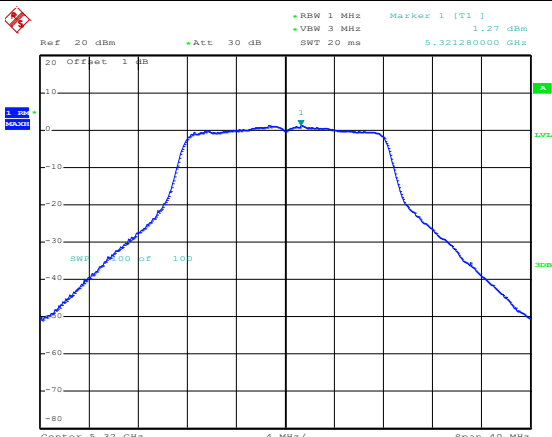
ANT 1
5150-5250MHz

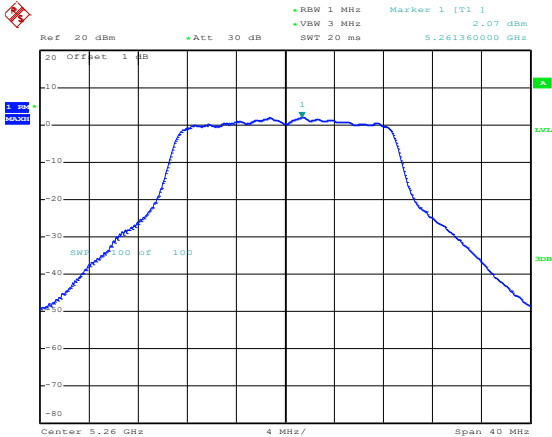
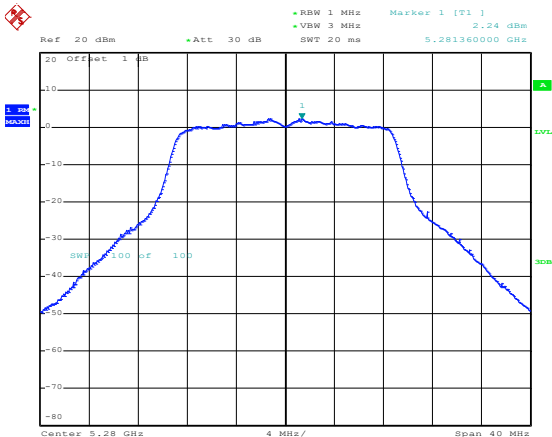
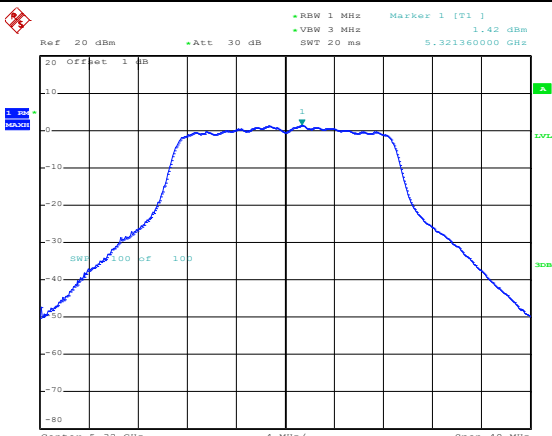
802.11a-Low	 Date: 14.APR.2023 14:36:47
802.11a-Middle	 Date: 14.APR.2023 14:37:02
802.11a-High	 Date: 14.APR.2023 14:37:20

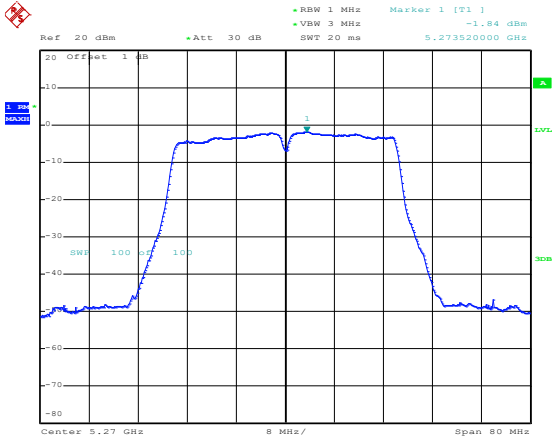
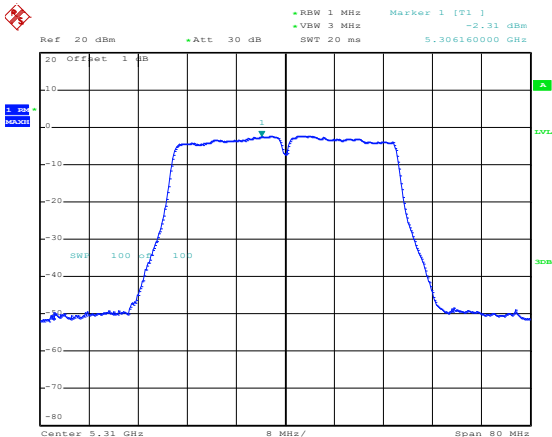
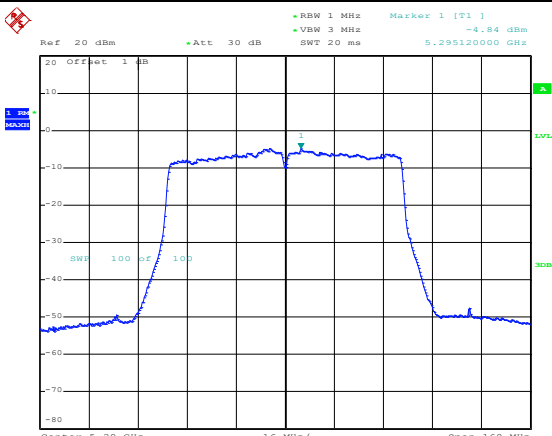
802.11n-HT20-Low	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] 2.45 dBm VBW 3 MHz SWT 20 ms 5.181440000 GHz 20 Offset 1 dB 100 Hz 1 0 dBm 10 dB 20 dB 30 dB 40 dB 50 dB 60 dB 70 dB 80 dB Center 5.18 GHz 4 MHz/ Span 40 MHz Date: 14.APR.2023 14:37:49
802.11n-HT20-Middle	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] 2.83 dBm VBW 3 MHz SWT 20 ms 5.198720000 GHz 20 Offset 1 dB 100 Hz 1 0 dBm 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: 14.APR.2023 14:38:05
802.11n-HT20-High	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] 3.69 dBm VBW 3 MHz SWT 20 ms 5.241360000 GHz 20 Offset 1 dB 100 Hz 1 0 dBm 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: 14.APR.2023 14:38:31

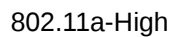
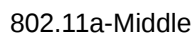
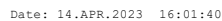
802.11n-HT40-Low	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] -1.25 dBm VBW 3 MHz SWT 20 ms 5.193040000 GHz 20 Offset 1 dB 100 kHz Center 5.19 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 14:40:00
802.11n-HT40-High	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] -0.59 dBm VBW 3 MHz SWT 20 ms 5.233520000 GHz 20 Offset 1 dB 100 kHz Center 5.23 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 14:40:48
802.11ac-VHT80	 Ref 20 dBm Att 30 dB RBW 1 MHz Marker 1 [T1] -3.90 dBm VBW 3 MHz SWT 20 ms 5.215120000 GHz 20 Offset 1 dB 100 kHz Center 5.21 GHz 16 MHz/ Span 160 MHz Date: 14.APR.2023 14:41:40

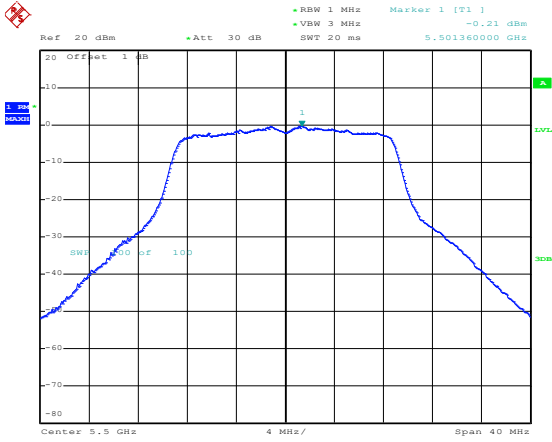
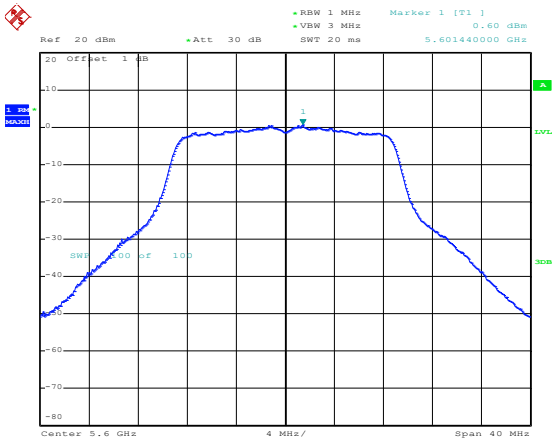
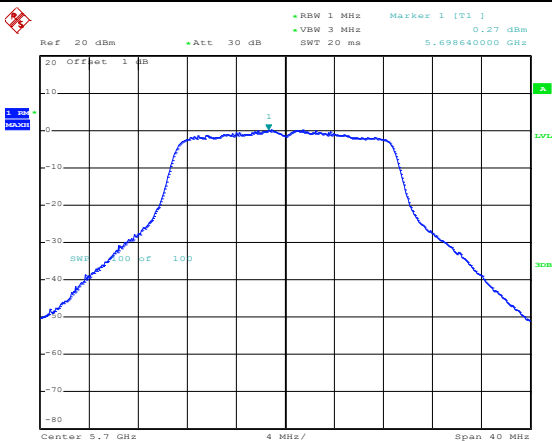
5250-5350MHz

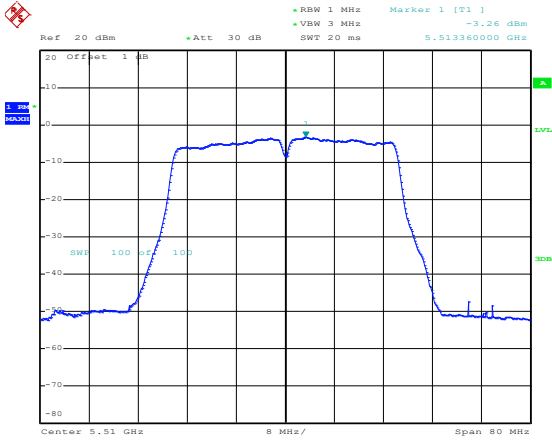
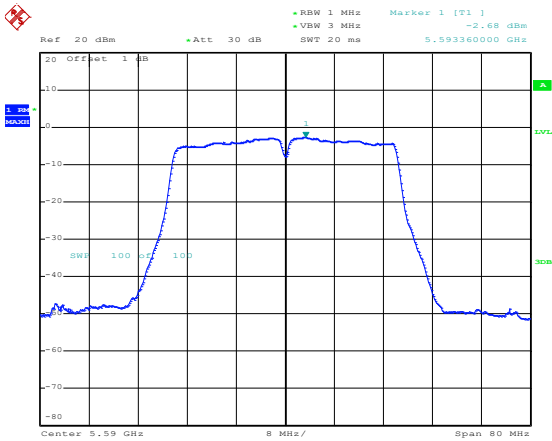
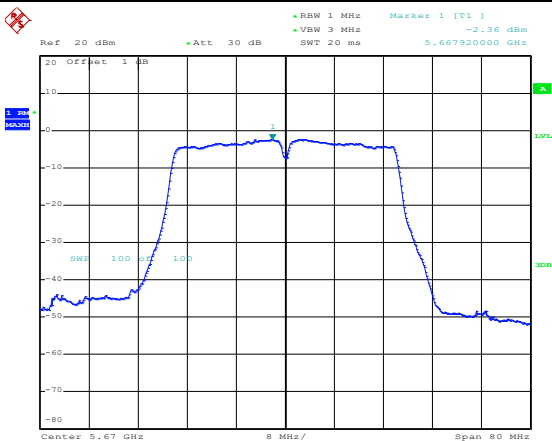
802.11a-Low	 Date: 14.APR.2023 15:12:58
802.11a-Middle	 Date: 14.APR.2023 15:13:18
802.11a-High	 Date: 14.APR.2023 15:13:44

802.11n-HT20-Low	 Date: 14.APR.2023 15:20:42
802.11n-HT20-Middle	 Date: 14.APR.2023 15:21:10
802.11n-HT20-High	 Date: 14.APR.2023 15:23:14

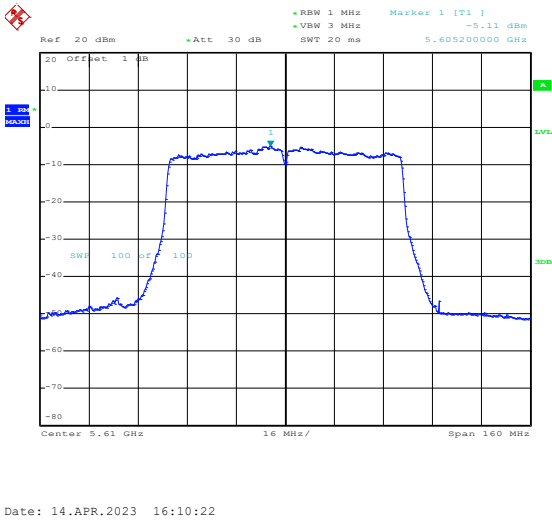
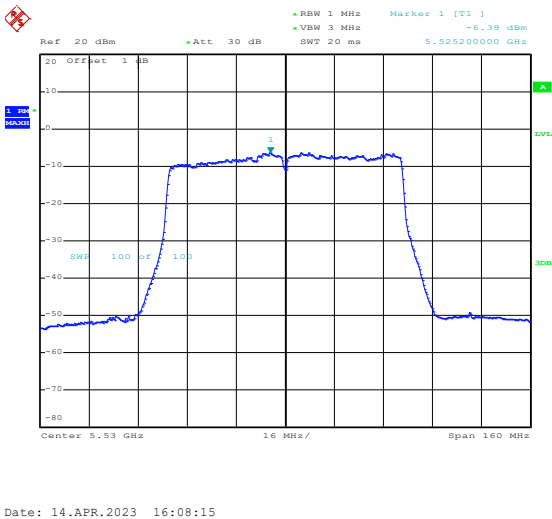
802.11n-HT40-Low	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] -1.84 dBm •VBW 3 MHz SWT 20 ms 5.273520000 GHz 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 SWT 100 Hz 100 100 Center 5.27 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 15:24:16
802.11n-HT40-High	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] -2.31 dBm •VBW 3 MHz SWT 20 ms 5.306160000 GHz 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 SWT 100 Hz 100 100 Center 5.31 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 15:24:45
802.11ac-VHT80	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] -4.84 dBm •VBW 3 MHz SWT 20 ms 5.295120000 GHz 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 SWT 100 Hz 100 100 Center 5.29 GHz 16 MHz/ Span 160 MHz Date: 14.APR.2023 15:25:12



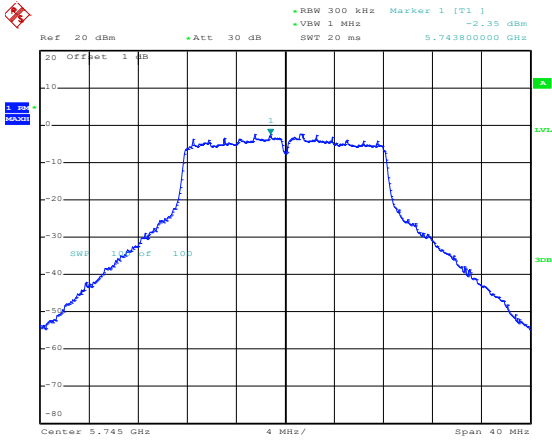
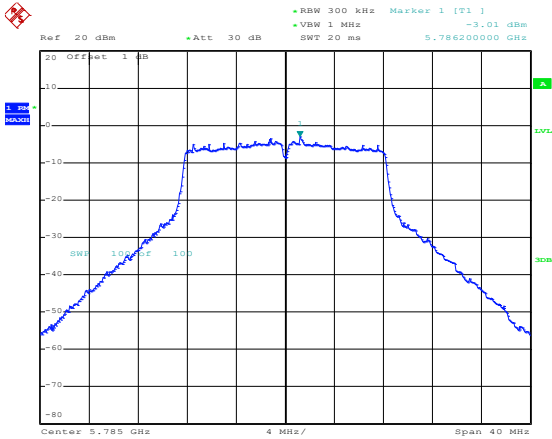
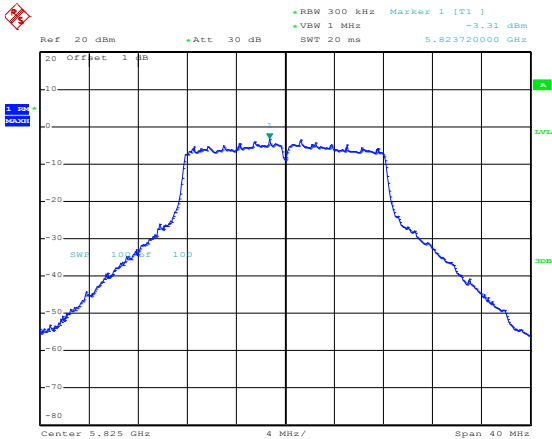
802.11n-HT20-Low	 Date: 14.APR.2023 16:02:45
802.11n-HT20-Middle	 Date: 14.APR.2023 16:03:06
802.11n-HT20-High	 Date: 14.APR.2023 16:03:22

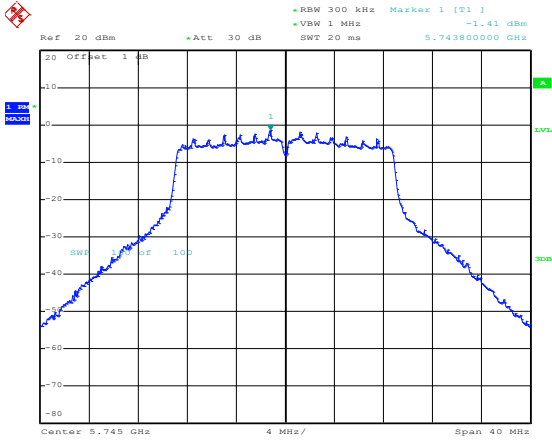
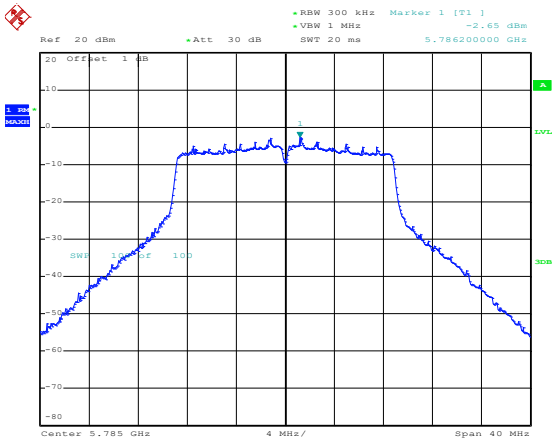
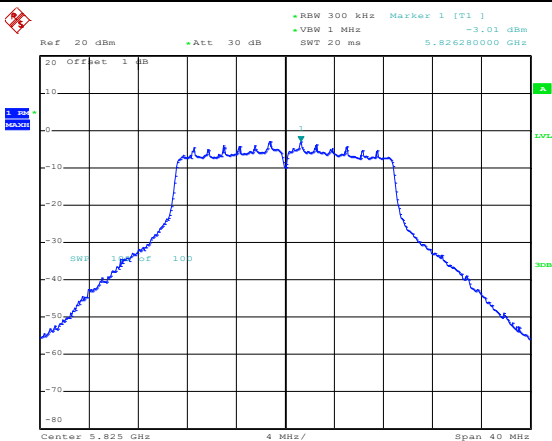
802.11n-HT40-Low	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] -3.26 dBm •VBW 3 MHz 5.513360000 GHz SWT 20 ms 20 Offset 1 dB 100 Hz SWT 100 Hz Center 5.51 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 16:03:53
802.11n-HT40- Middle	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] -2.68 dBm •VBW 3 MHz 5.593360000 GHz SWT 20 ms 20 Offset 1 dB 100 Hz SWT 100 Hz Center 5.59 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 16:05:43
802.11n-HT40-High	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] -2.36 dBm •VBW 3 MHz 5.667920000 GHz SWT 20 ms 20 Offset 1 dB 100 Hz SWT 100 Hz Center 5.67 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 16:06:22

802.11ac-VHT80



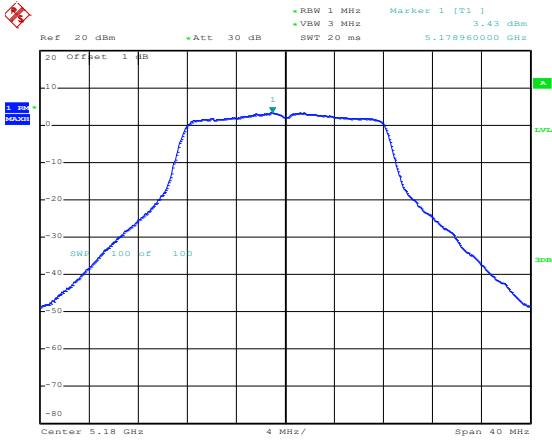
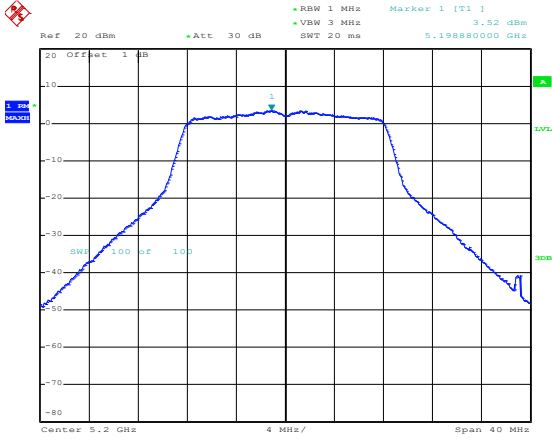
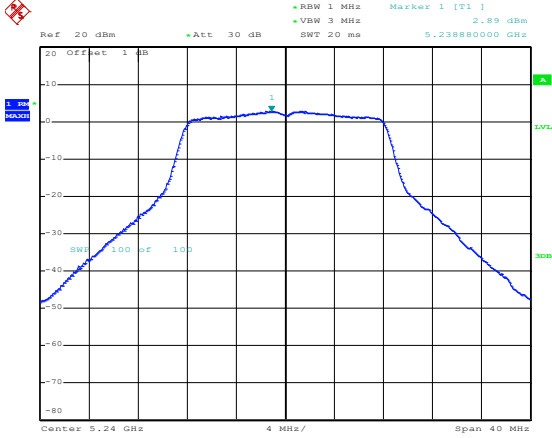
5725-5850MHz

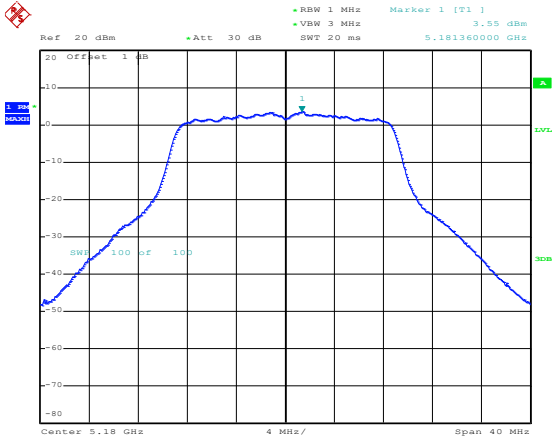
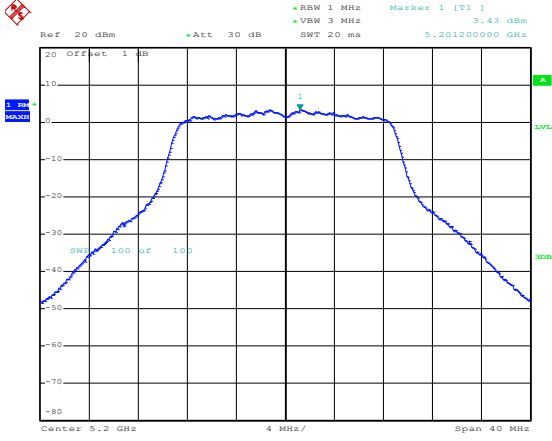
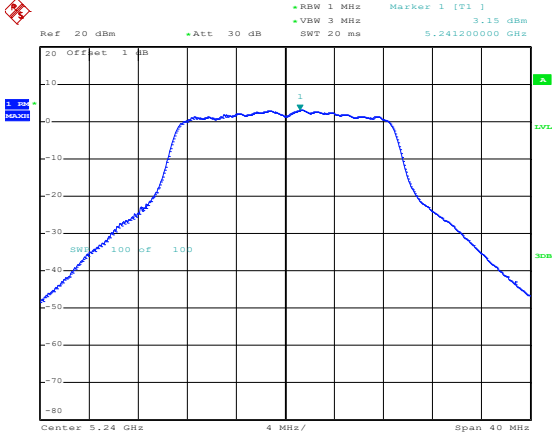
802.11a-Low	 Date: 14.APR.2023 17:16:45
802.11a-Middle	 Date: 14.APR.2023 17:17:04
802.11a-High	 Date: 14.APR.2023 17:17:33

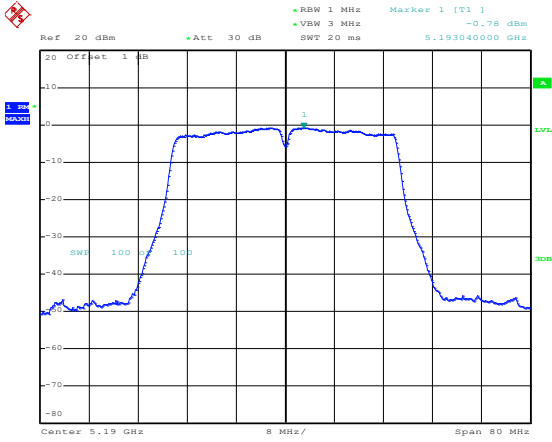
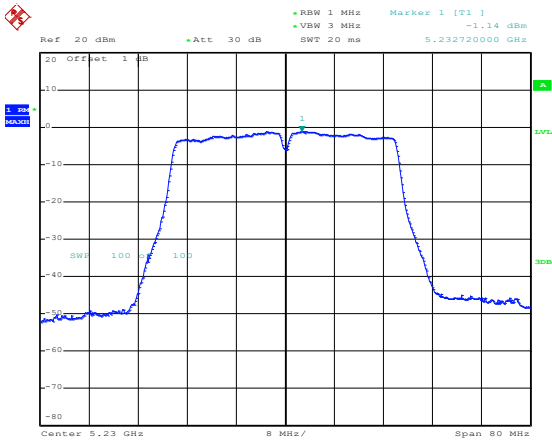
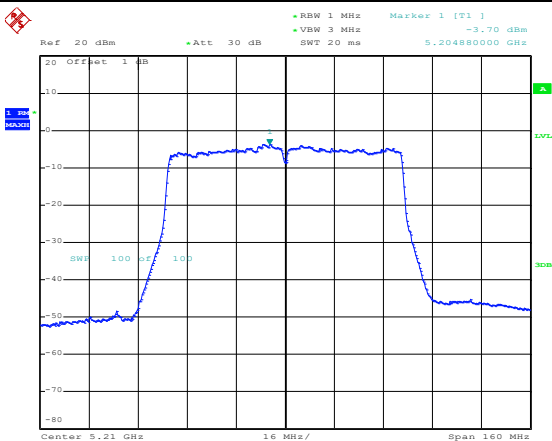
802.11n-HT20-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -1.41 dBm VSW 1 MHz SWT 20 ms 5.74380000 GHz 20 Offset 1 dB 100 1 SWT 100 Hz Center 5.745 GHz 4 MHz/ Span 40 MHz Date: 14.APR.2023 17:18:07
802.11n-HT20-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -2.65 dBm VSW 1 MHz SWT 20 ms 5.786200000 GHz 20 Offset 1 dB 100 1 SWT 100 Hz Center 5.785 GHz 4 MHz/ Span 40 MHz Date: 14.APR.2023 17:18:21
802.11n-HT20-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -3.01 dBm VSW 1 MHz SWT 20 ms 5.826280000 GHz 20 Offset 1 dB 100 1 SWT 100 Hz Center 5.825 GHz 4 MHz/ Span 40 MHz Date: 14.APR.2023 17:18:42

802.11n-HT40-Low	Ref: 20 dBm Att: 30 dB RBW: 300 kHz VBW: 1 MHz SWT: 20 ms Marker 1 [T1]: -4.93 dBm Center: 5.755 GHz Span: 80 MHz Date: 14.APR.2023 17:19:36
802.11n-HT40-High	Ref: 20 dBm Att: 30 dB RBW: 300 kHz VBW: 1 MHz SWT: 20 ms Marker 1 [T1]: -6.28 dBm Center: 5.755 GHz Span: 80 MHz Date: 14.APR.2023 17:19:58
802.11ac-VHT80	Ref: 20 dBm Att: 30 dB RBW: 300 kHz VBW: 1 MHz SWT: 20 ms Marker 1 [T1]: -8.67 dBm Center: 5.775 GHz Span: 160 MHz Date: 14.APR.2023 17:20:38

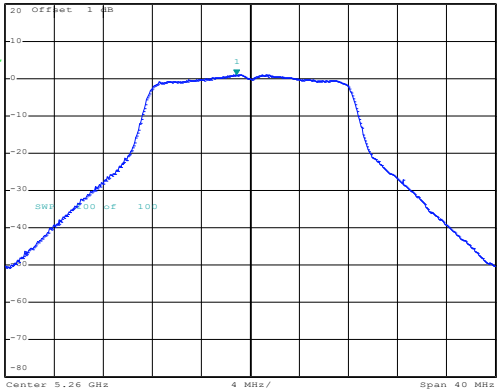
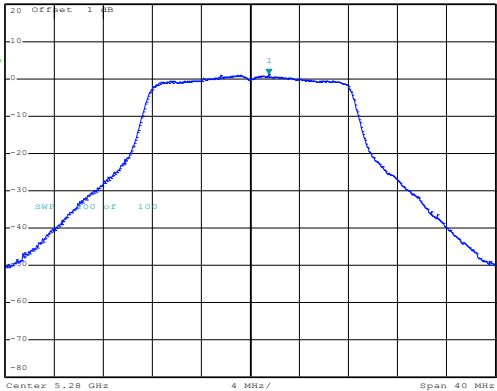
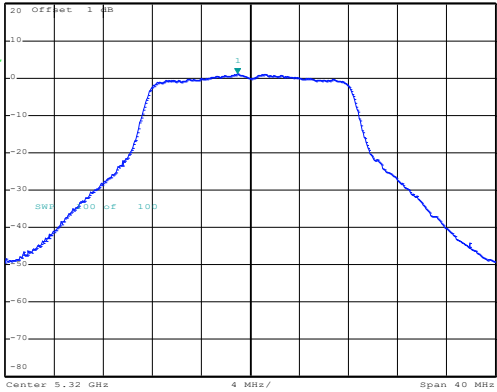
ANT 2
5150-5250MHz

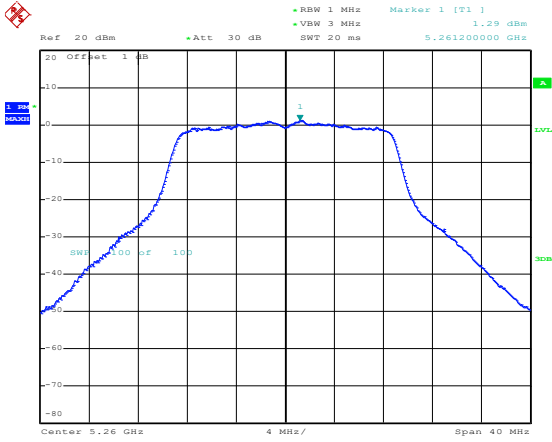
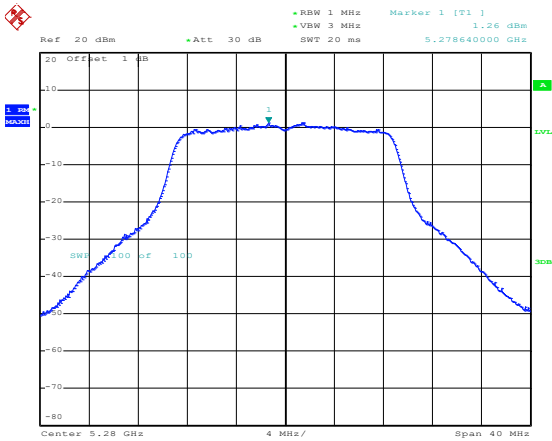
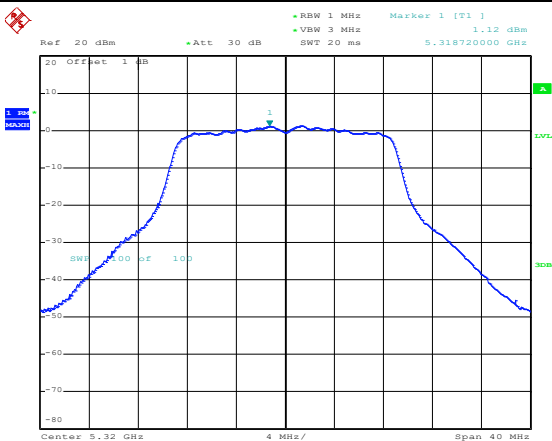
802.11a-Low	 Date: 17.APR.2023 10:07:49
802.11a-Middle	 Date: 17.APR.2023 10:12:02
802.11a-High	 Date: 17.APR.2023 10:12:41

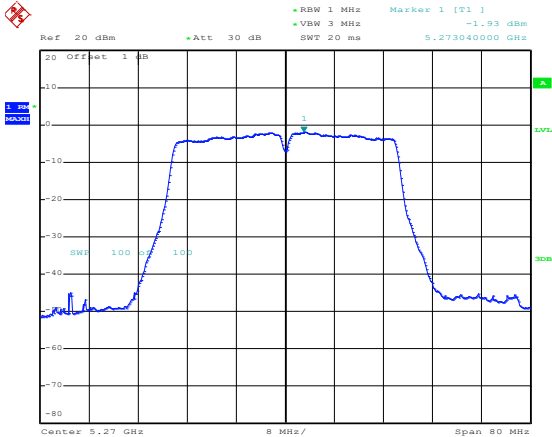
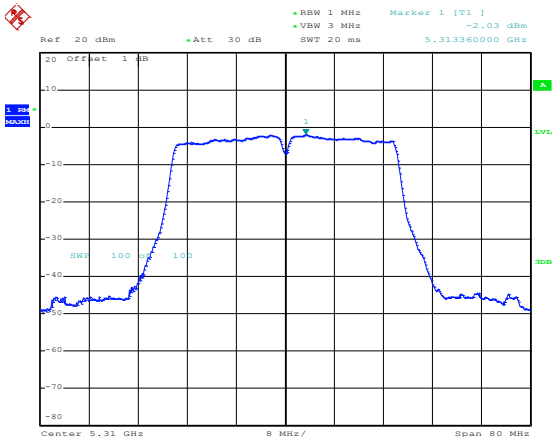
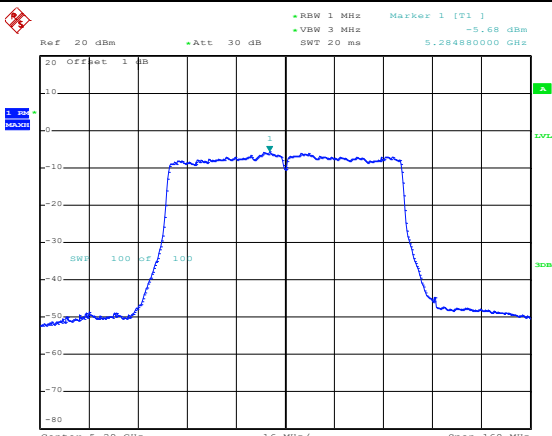
802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] 3.55 dBm •VBW 3 MHz SWT 20 ms 5.181360000 GHz 20 Offset 1 dB 1 dB 1 Marker 1 [T1] 3.55 dBm 5.181360000 GHz Center 5.18 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 10:13:30
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] 3.43 dBm •VBW 3 MHz SWT 20 ms 5.201200000 GHz 20 Offset 1 dB 1 dB 1 Marker 1 [T1] 3.43 dBm 5.201200000 GHz Center 5.2 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 10:14:25
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] 3.15 dBm •VBW 3 MHz SWT 20 ms 5.241200000 GHz 20 Offset 1 dB 1 dB 1 Marker 1 [T1] 3.15 dBm 5.241200000 GHz Center 5.24 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 10:22:24

802.11n-HT40-Low	 Date: 17.APR.2023 10:22:53
802.11n-HT40-High	 Date: 17.APR.2023 10:23:08
802.11ac-VHT80	 Date: 17.APR.2023 10:24:01

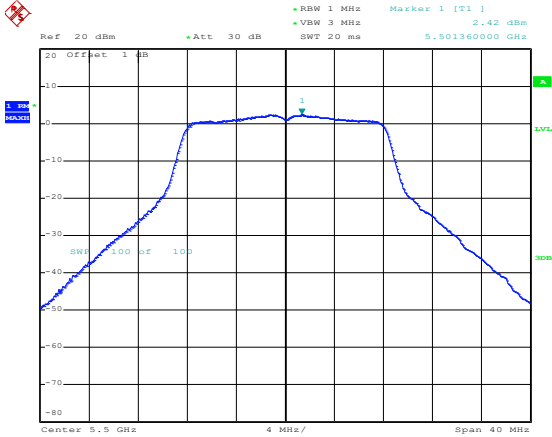
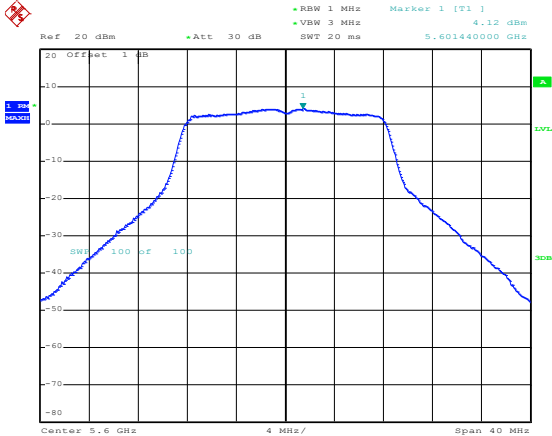
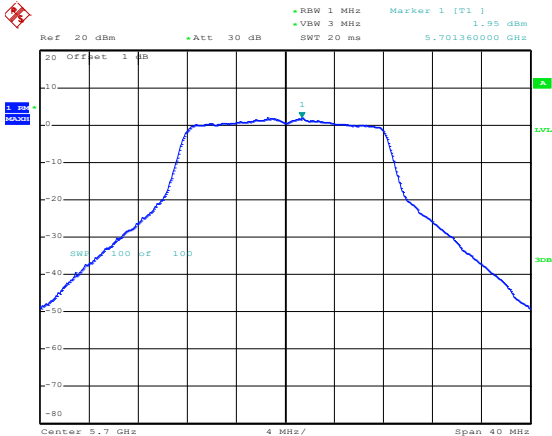
5250-5350MHz

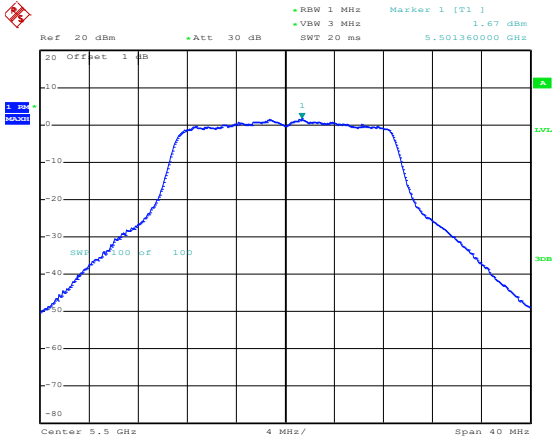
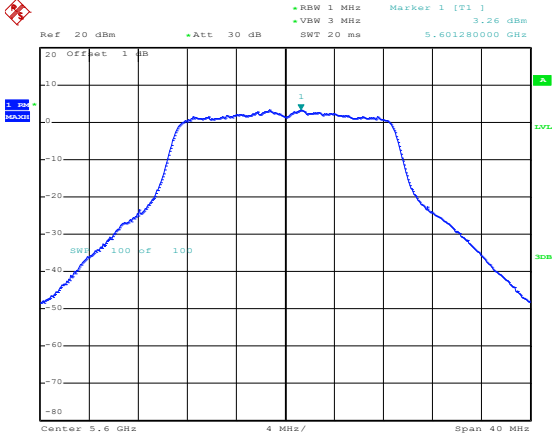
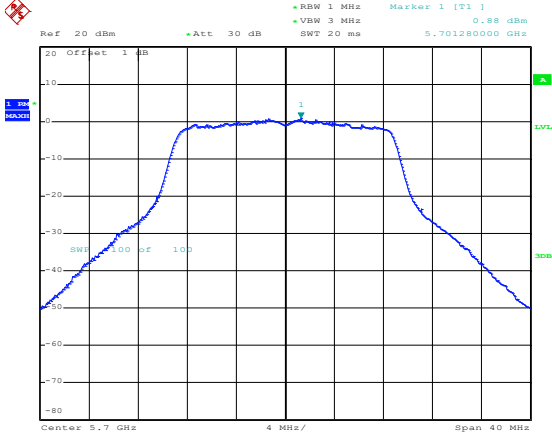
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802.11a-Middle	 Date: 17.APR.2023 11:46:58
802.11a-High	 Date: 17.APR.2023 11:47:14

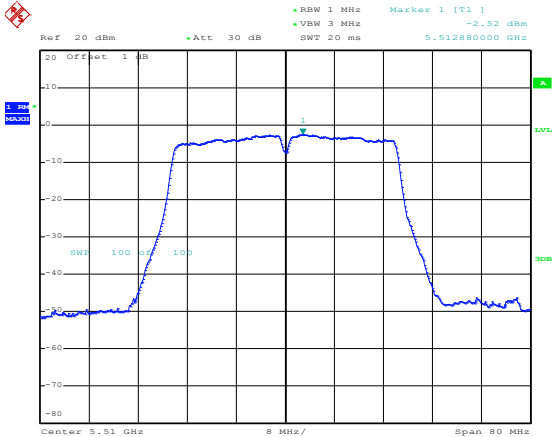
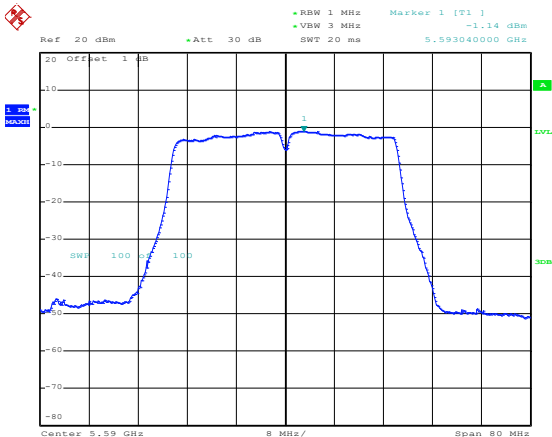
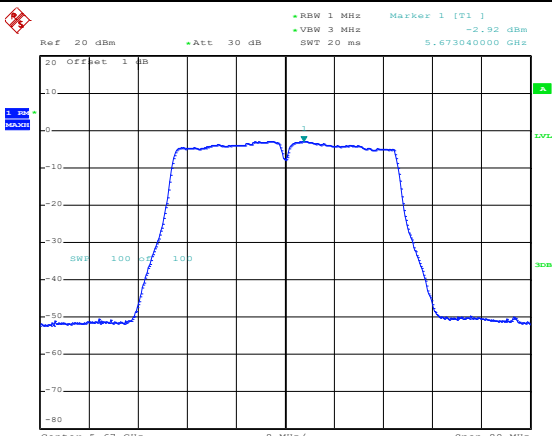
802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] 1.29 dBm •VBW 3 MHz SWT 20 ms 5.261200000 GHz 20 Offset 1 dB 100 dBm 1 SWT 100 dB 100 Center 5.26 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 11:47:44
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] 1.26 dBm •VBW 3 MHz SWT 20 ms 5.278640000 GHz 20 Offset 1 dB 100 dBm 1 SWT 100 dB 100 Center 5.28 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 11:48:01
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] 1.12 dBm •VBW 3 MHz SWT 20 ms 5.318720000 GHz 20 Offset 1 dB 100 dBm 1 SWT 100 dB 100 Center 5.32 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 11:49:26

802.11n-HT40-Low	 Ref: 20 dBm Att: 30 dB RBW 1 MHz VBW 3 MHz SWT 20 ms Marker 1 [T1] -1.93 dBm 5.273040000 GHz Center 5.27 GHz 8 MHz/ Span 80 MHz Date: 17.APR.2023 11:51:18
802.11n-HT40-High	 Ref: 20 dBm Att: 30 dB RBW 1 MHz VBW 3 MHz SWT 20 ms Marker 1 [T1] -2.03 dBm 5.313360000 GHz Center 5.31 GHz 8 MHz/ Span 80 MHz Date: 17.APR.2023 11:51:48
802.11ac-VHT80	 Ref: 20 dBm Att: 30 dB RBW 1 MHz VBW 3 MHz SWT 20 ms Marker 1 [T1] -5.68 dBm 5.284880000 GHz Center 5.29 GHz 16 MHz/ Span 160 MHz Date: 17.APR.2023 11:53:20

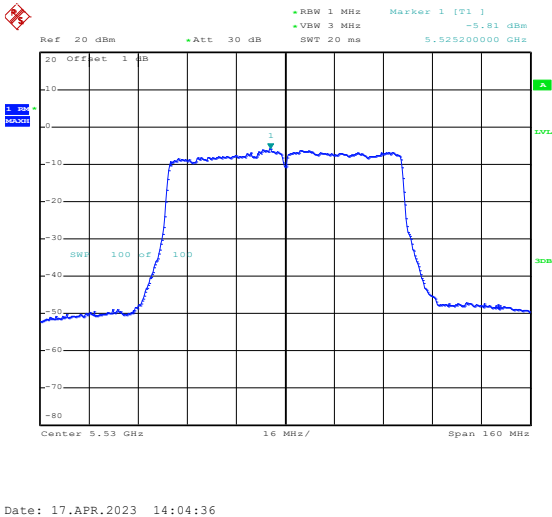
5470-5725MHz

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802.11a-Middle	 Date: 17.APR.2023 14:09:19
802.11a-High	 Date: 17.APR.2023 14:10:30

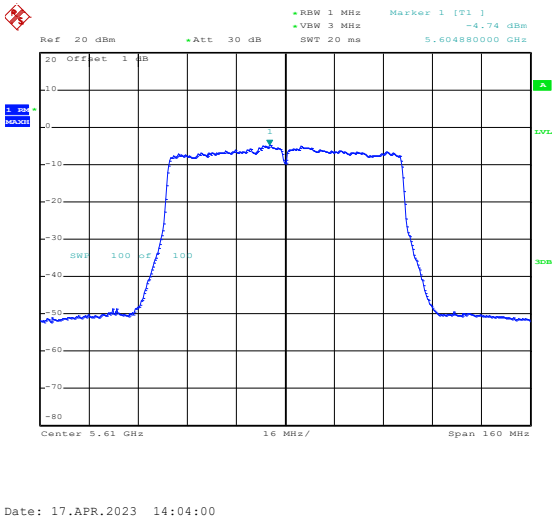
802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] 1.67 dBm •VBW 3 MHz SWT 20 ms 5.501360000 GHz 20 Offset 1 dB 100 dBm 1 SWT 100 dB 100 Center 5.5 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 14:07:35
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] 3.26 dBm •VBW 3 MHz SWT 20 ms 5.601280000 GHz 20 Offset 1 dB 100 dBm 1 SWT 100 dB 100 Center 5.6 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 14:07:56
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] 0.88 dBm •VBW 3 MHz SWT 20 ms 5.701280000 GHz 20 Offset 1 dB 100 dBm 1 SWT 100 dB 100 Center 5.7 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 14:08:10

802.11n-HT40-Low	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] -2.52 dBm •VBW 3 MHz SWF 20 ms 5.512880000 GHz 20 Offset 1 dB 100 SWF 100 Hz Center 5.51 GHz 8 MHz/ Span 80 MHz Date: 17.APR.2023 14:06:23
802.11n-HT40- Middle	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] -1.14 dBm •VBW 3 MHz SWF 20 ms 5.593040000 GHz 20 Offset 1 dB 100 SWF 100 Hz Center 5.59 GHz 8 MHz/ Span 80 MHz Date: 17.APR.2023 14:06:38
802.11n-HT40-High	 Ref 20 dBm •Att 30 dB •RBW 1 MHz Marker 1 [T1] -2.92 dBm •VBW 3 MHz SWF 20 ms 5.673040000 GHz 20 Offset 1 dB 100 SWF 100 Hz Center 5.67 GHz 8 MHz/ Span 80 MHz Date: 17.APR.2023 14:07:01

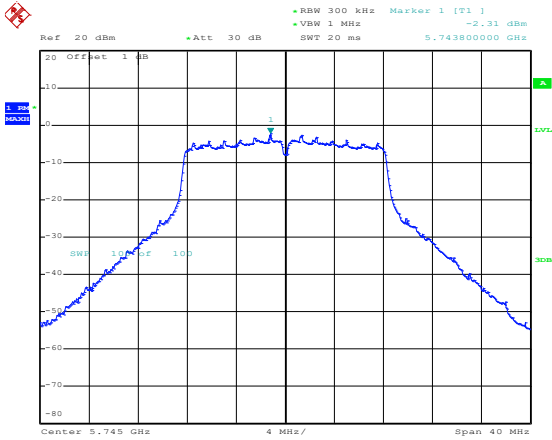
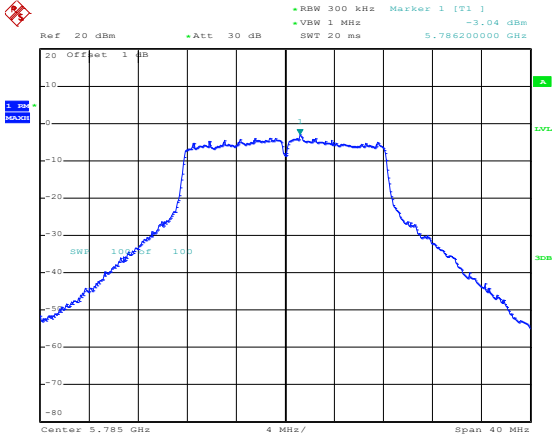
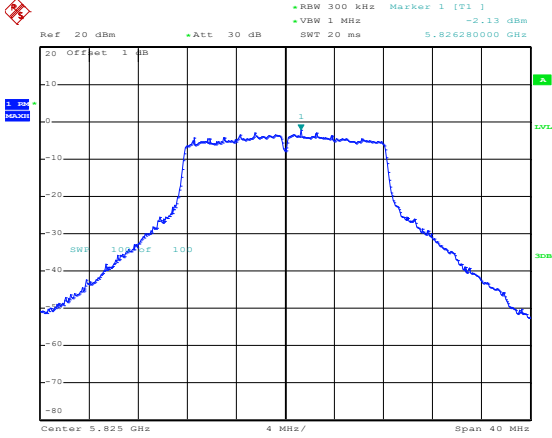
802.11ac-VHT80- Low

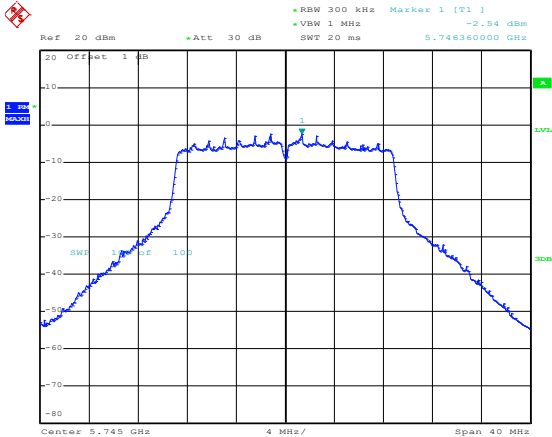
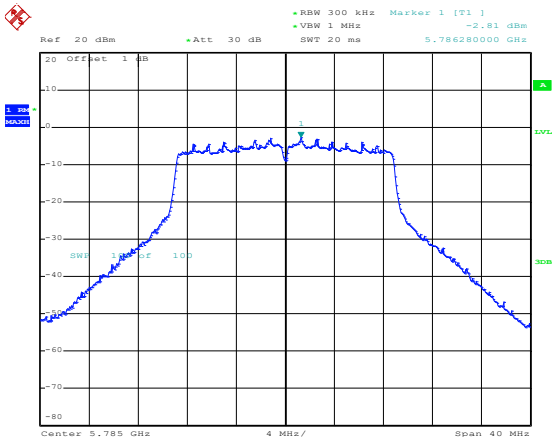
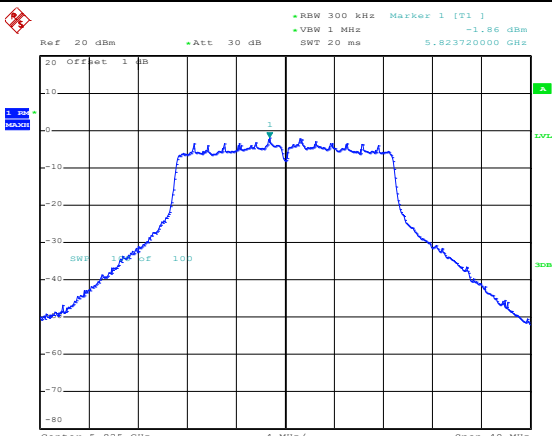


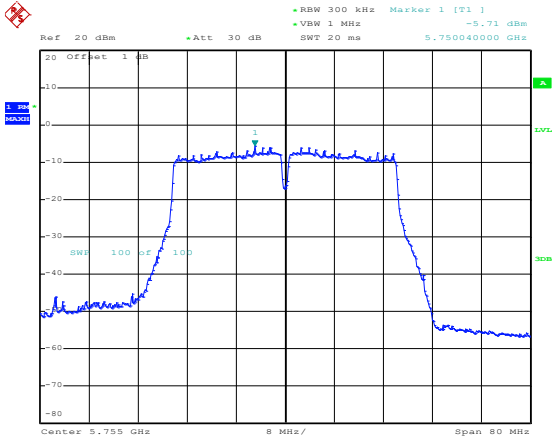
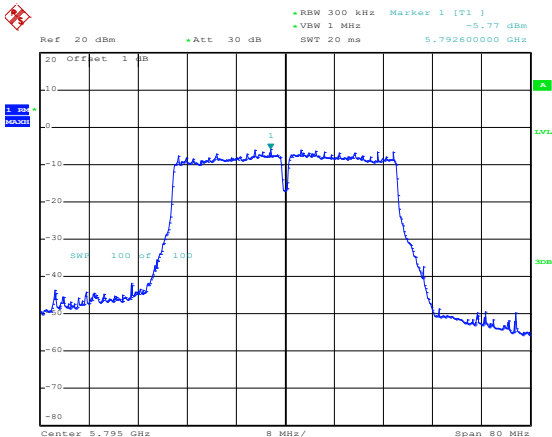
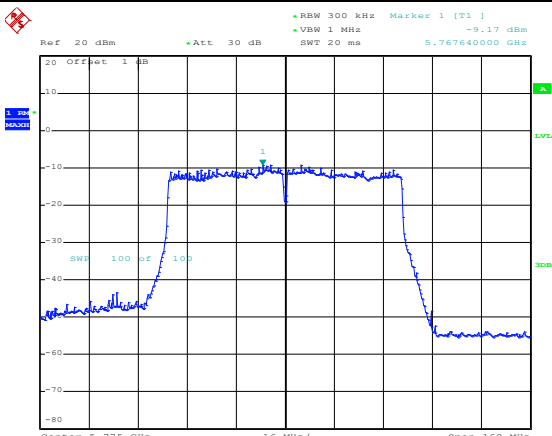
802.11ac-VHT80- High



5725-5850MHz

802.11a-Low	 Date: 17.APR.2023 15:06:48
802.11a-Middle	 Date: 17.APR.2023 15:07:05
802.11a-High	 Date: 17.APR.2023 15:07:22

802.11n-HT20-Low	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -2.54 dBm VSW 1 MHz SWT 20 ms 5.745360000 GHz 20 Offset 1 dB Center 5.745 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 15:04:04
802.11n-HT20-Middle	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -2.81 dBm VSW 1 MHz SWT 20 ms 5.786280000 GHz 20 Offset 1 dB Center 5.785 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 15:04:20
802.11n-HT20-High	 Ref 20 dBm Att 30 dB RBW 300 kHz Marker 1 [T1] -1.86 dBm VSW 1 MHz SWT 20 ms 5.823720000 GHz 20 Offset 1 dB Center 5.825 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 15:04:40

802.11n-HT40-Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] -5.71 dBm •VBW 1 MHz SWF 20 ms 5.75040000 GHz 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 SWF 100 Hz 100 100 Center 5.755 GHz 8 MHz/ Span 80 MHz Date: 17.APR.2023 15:03:06
802.11n-HT40-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] -5.77 dBm •VBW 1 MHz SWF 20 ms 5.79260000 GHz 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 SWF 100 Hz 100 100 Center 5.795 GHz 8 MHz/ Span 80 MHz Date: 17.APR.2023 15:03:23
802.11ac-VHT80	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] -9.17 dBm •VBW 1 MHz SWF 20 ms 5.76764000 GHz 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 SWF 100 Hz 100 100 Center 5.775 GHz 16 MHz/ Span 160 MHz Date: 17.APR.2023 15:01:47

APPENDIX B

Emission Bandwidth and Occupied Bandwidth

U-NII-1:5150-5250MHz						
Test Mode	Test Channel MHz	ANT 1		ANT 2		Result
		26 dB Bandwidth MHz	99% Bandwidth MHz	26 dB Bandwidth MHz	99% Bandwidth MHz	
802.11a	5180	22.60	16.88	22.40	16.88	Pass
	5200	22.10	16.88	21.80	16.88	Pass
	5240	21.80	16.72	22.40	16.88	Pass
802.11n-HT20	5180	23.40	18.00	23.70	18.00	Pass
	5200	23.50	18.00	23.50	18.00	Pass
	5240	23.40	18.00	23.30	18.00	Pass
802.11n-HT40	5190	42.30	36.80	42.20	36.96	Pass
	5230	42.48	36.80	42.20	36.80	Pass
802.11ac-VHT80	5210	85.32	78.40	85.68	76.80	Pass

U-NII-2A: 5250-5350MHz						
Test Mode	Test Channel MHz	ANT 1		ANT 2		Result
		26 dB Bandwidth MHz	99% Bandwidth MHz	26 dB Bandwidth MHz	99% Bandwidth MHz	
802.11a	5260	21.90	16.88	22.60	16.80	Pass
	5280	21.80	16.96	22.00	16.80	Pass
	5320	22.80	16.80	22.30	16.88	Pass
802.11n-HT20	5260	23.40	18.00	23.50	18.00	Pass
	5280	23.30	18.00	23.40	18.00	Pass
	5320	23.40	18.00	23.00	18.00	Pass
802.11n-HT40	5270	42.20	36.80	42.20	36.80	Pass
	5310	42.20	36.64	42.20	36.80	Pass
802.11ac-VHT80	5290	86.76	78.48	84.60	76.48	Pass

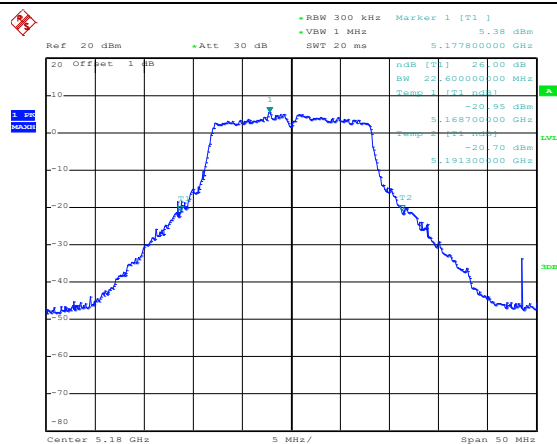
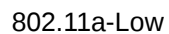
U-NII-2C: 5470-5725MHz						
Test Mode	Test Channel MHz	ANT 1		ANT 2		Result
		26 dB Bandwidth MHz	99% Bandwidth MHz	26 dB Bandwidth MHz	99% Bandwidth MHz	
802.11a	5500	22.20	16.88	22.40	16.80	Pass
	5600	21.70	16.80	22.50	16.80	Pass
	5700	22.40	16.80	22.40	16.80	Pass
802.11n-HT20	5500	23.10	18.00	23.60	18.00	Pass
	5600	23.30	18.00	23.80	18.00	Pass
	5700	23.50	17.92	23.50	17.92	Pass
802.11n-HT40	5510	42.00	36.80	42.20	36.80	Pass
	5590	42.00	36.80	42.20	36.80	Pass
	5670	42.20	36.80	42.20	36.80	Pass
802.11ac-VHT80	5530	87.12	76.16	86.76	76.80	Pass
	5610	86.76	76.48	86.40	76.16	Pass

U-NII-3: 5725-5850MHz						
Test Mode	Test Channel MHz	ANT 1		ANT 2		Limit kHz
		6 dB Bandwidth MHz	99% Bandwidth MHz	6 dB Bandwidth MHz	99% Bandwidth MHz	
802.11a	5745	15.60	16.80	16.48	16.80	≥500
	5785	15.60	16.80	16.48	16.80	≥500
	5825	15.60	16.80	16.40	16.72	≥500
802.11n-HT20	5745	16.72	18.00	17.60	18.00	≥500
	5785	16.72	18.00	17.60	18.00	≥500
	5825	16.72	17.92	17.60	18.00	≥500
802.11n-HT40	5755	35.68	36.80	36.48	36.80	≥500
	5795	35.68	36.64	36.64	36.80	≥500
802.11ac-VHT80	5775	76.16	75.84	75.20	76.48	≥500

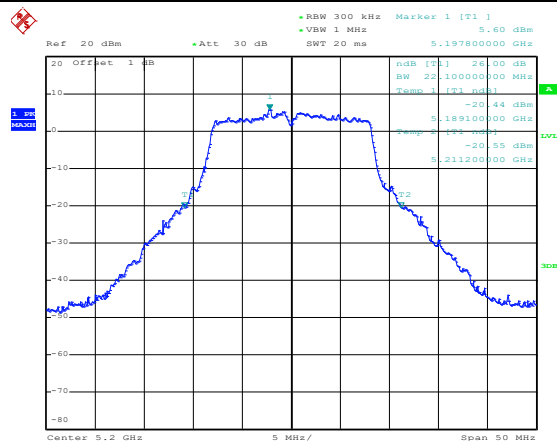
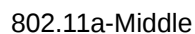
ANT 1

26 dB Bandwidth MHz

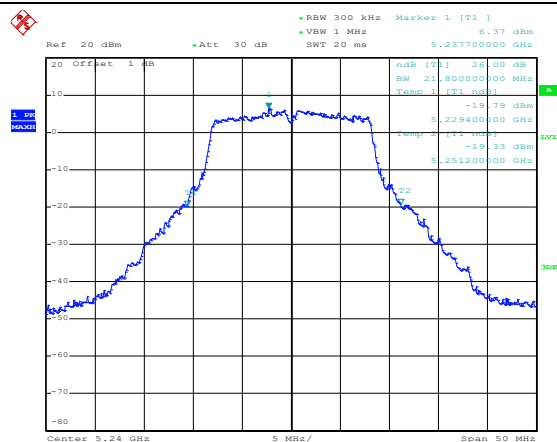
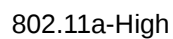
5150-5250MHz



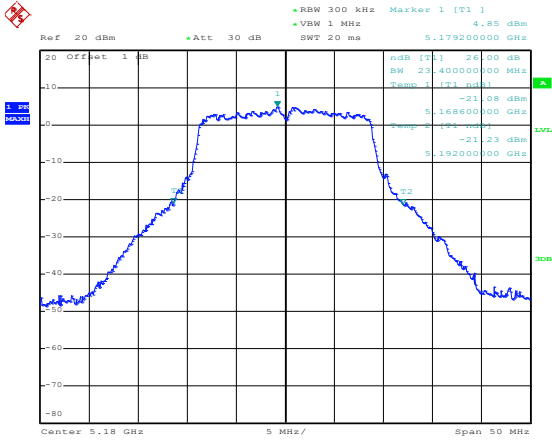
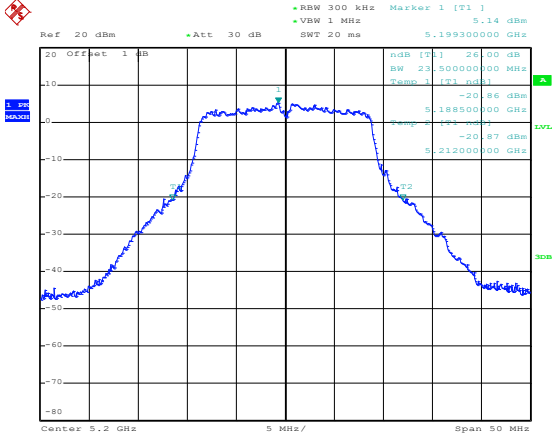
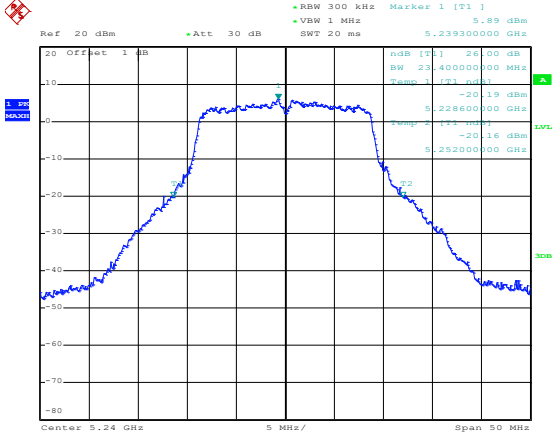
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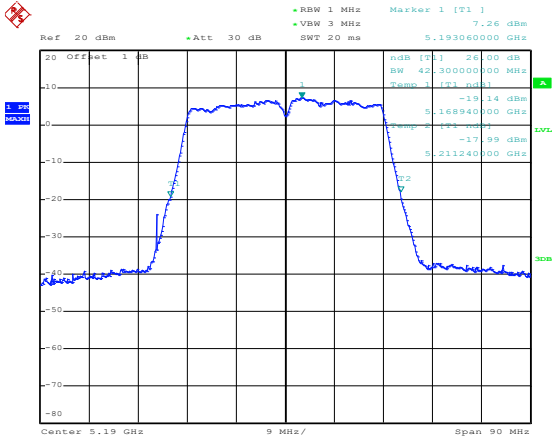
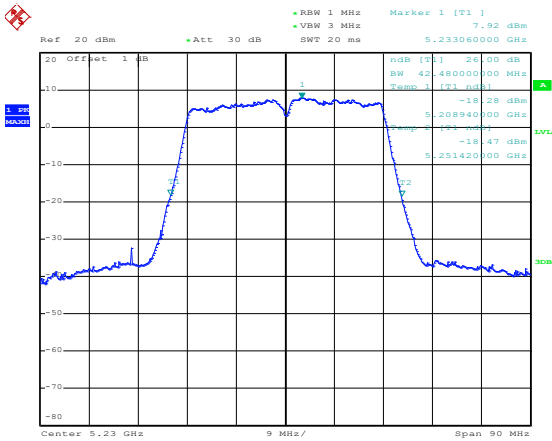
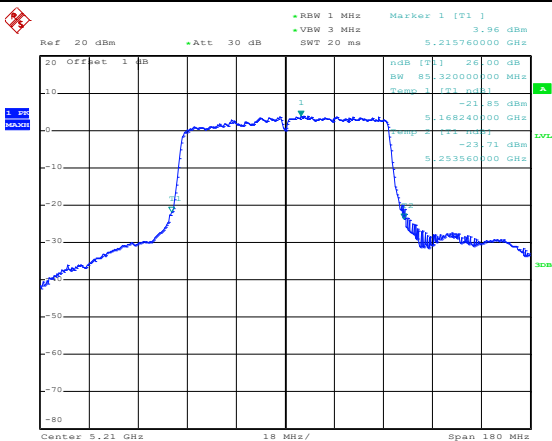


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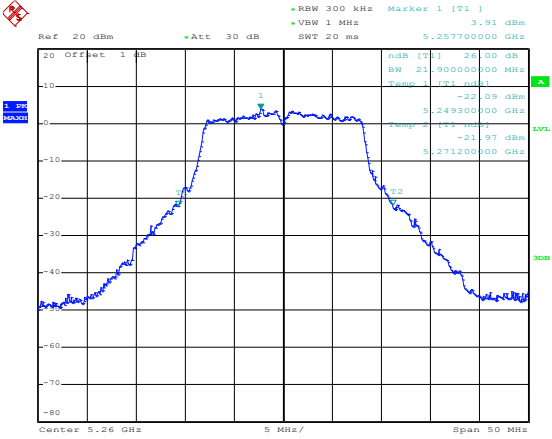
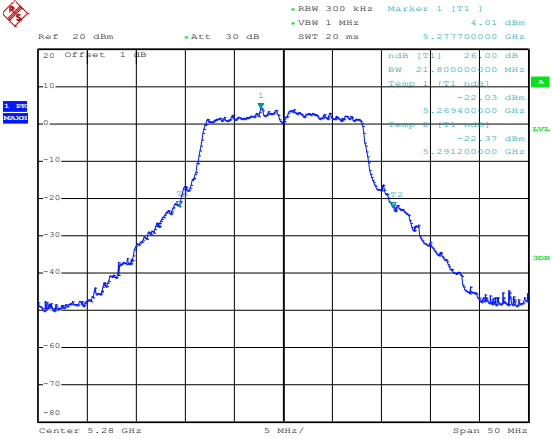
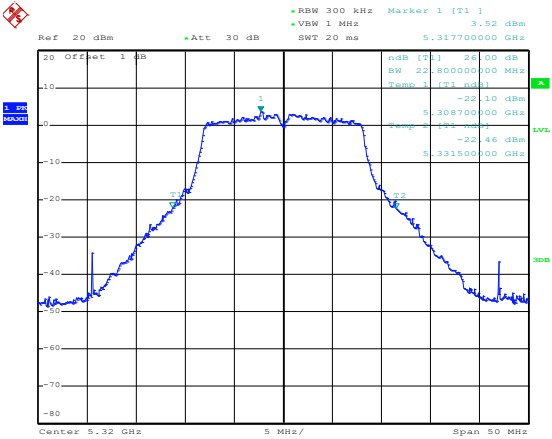


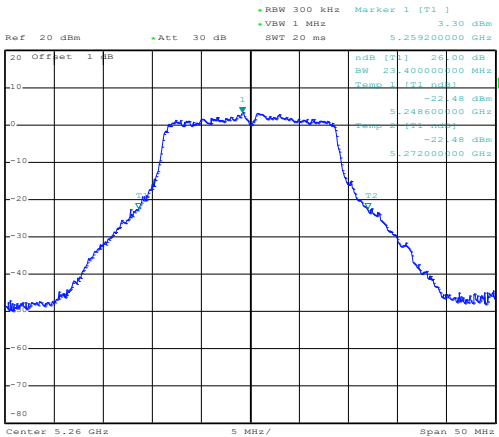
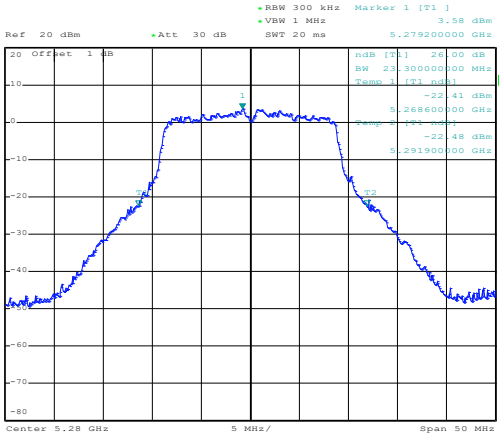
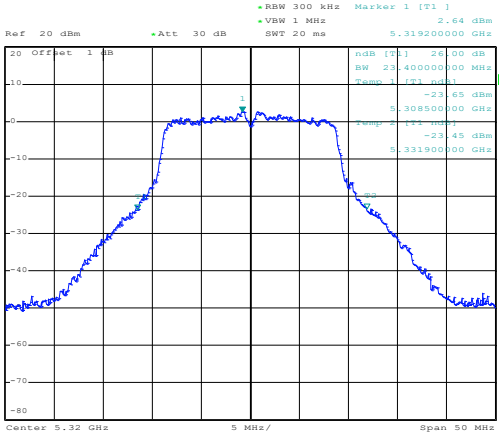
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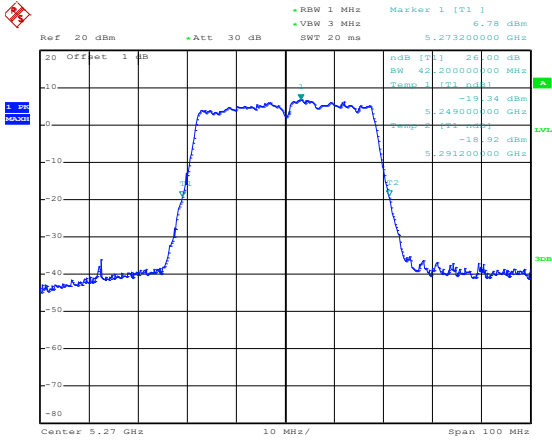
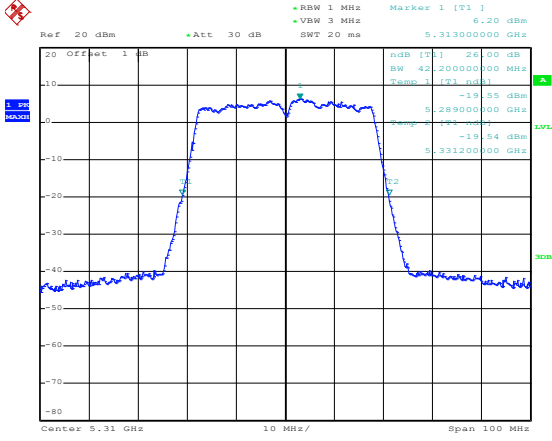
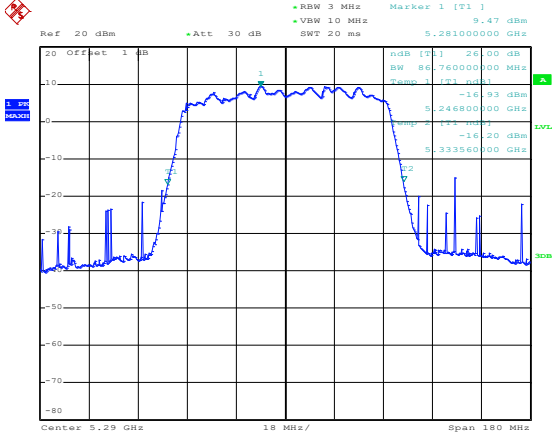
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802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 5.14 dBm •VSW 1 MHz SWT 20 ms 5.199300000 GHz 20 Offset 1 dB nBW [T1] 26.00 dB A BW 23.500000000 MHz -20.86 dBm Temp 1 [T1] nBW 5.188500000 GHz -20.87 dBm 5.212000000 GHz 30B Center 5.2 GHz 5 MHz/ Span 50 MHz Date: 14.APR.2023 14:55:53
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 5.89 dBm •VSW 1 MHz SWT 20 ms 5.239300000 GHz 20 Offset 1 dB nBW [T1] 26.00 dB A BW 23.400000000 MHz -20.19 dBm Temp 1 [T1] nBW 5.228600000 GHz -20.16 dBm 5.252000000 GHz 30B Center 5.24 GHz 5 MHz/ Span 50 MHz Date: 14.APR.2023 14:56:23

802.11n-HT40-Low	 Date: 14.APR.2023 14:57:28
802.11n-HT40-High	 Date: 14.APR.2023 14:58:29
802.11ac-VHT80	 Date: 14.APR.2023 14:59:19

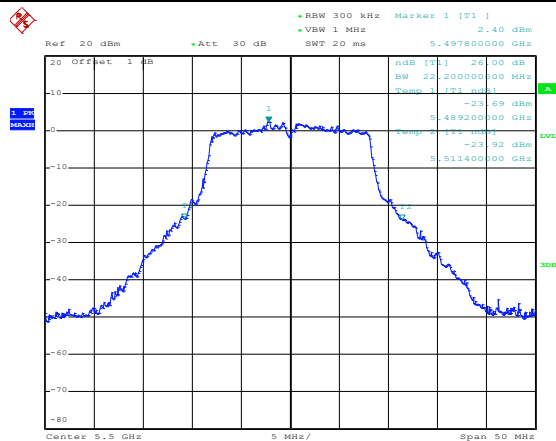
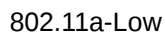
5250-5350MHz

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802.11a-Middle	 Date: 14.APR.2023 15:39:18
802.11a-High	 Date: 14.APR.2023 15:42:12

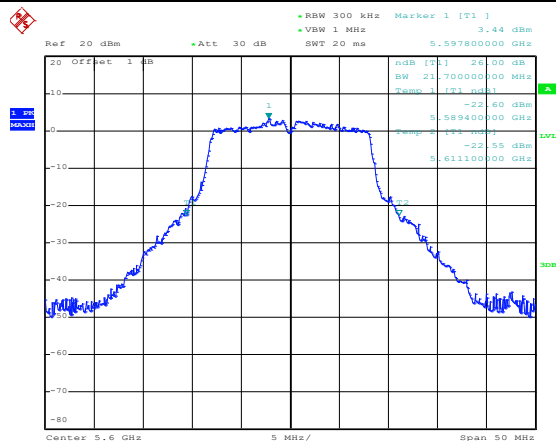
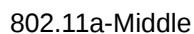
802.11n-HT20-Low	 Ref 20 dBm +Att 30 dB +RBW 300 kHz Marker 1 [T1] 3.30 dBm +VSW 1 MHz SWR 20 ms 5.259200000 GHz 20 Offset 1 dB 1 -22.48 dBm 5.259200000 GHz 1.00 -10 -22.48 dBm 5.268600000 GHz 1.00 0 -22.48 dBm 5.278000000 GHz 1.00 -10 -22.48 dBm 5.287400000 GHz 1.00 -20 -22.48 dBm 5.296800000 GHz 1.00 -30 -22.48 dBm 5.306200000 GHz 1.00 -40 -22.48 dBm 5.315600000 GHz 1.00 -50 -22.48 dBm 5.325000000 GHz 1.00 -60 -22.48 dBm 5.334400000 GHz 1.00 -70 -22.48 dBm 5.343800000 GHz 1.00 -80 -22.48 dBm 5.353200000 GHz 1.00 Center 5.26 GHz 5 MHz/ Span 50 MHz Date: 14.APR.2023 15:42:39
802.11n-HT20-Middle	 Ref 20 dBm +Att 30 dB +RBW 300 kHz Marker 1 [T1] 3.58 dBm +VSW 1 MHz SWR 20 ms 5.279200000 GHz 20 Offset 1 dB 1 -22.41 dBm 5.279200000 GHz 1.00 -10 -22.41 dBm 5.288600000 GHz 1.00 0 -22.41 dBm 5.298000000 GHz 1.00 -10 -22.41 dBm 5.307400000 GHz 1.00 -20 -22.41 dBm 5.316800000 GHz 1.00 -30 -22.41 dBm 5.326200000 GHz 1.00 -40 -22.41 dBm 5.335600000 GHz 1.00 -50 -22.41 dBm 5.345000000 GHz 1.00 -60 -22.41 dBm 5.354400000 GHz 1.00 -70 -22.41 dBm 5.363800000 GHz 1.00 -80 -22.41 dBm 5.373200000 GHz 1.00 Center 5.28 GHz 5 MHz/ Span 50 MHz Date: 14.APR.2023 15:43:01
802.11n-HT20-High	 Ref 20 dBm +Att 30 dB +RBW 300 kHz Marker 1 [T1] 2.64 dBm +VSW 1 MHz SWR 20 ms 5.319200000 GHz 20 Offset 1 dB 1 -23.45 dBm 5.319200000 GHz 1.00 -10 -23.45 dBm 5.328600000 GHz 1.00 0 -23.45 dBm 5.338000000 GHz 1.00 -10 -23.45 dBm 5.347400000 GHz 1.00 -20 -23.45 dBm 5.356800000 GHz 1.00 -30 -23.45 dBm 5.366200000 GHz 1.00 -40 -23.45 dBm 5.375600000 GHz 1.00 -50 -23.45 dBm 5.385000000 GHz 1.00 -60 -23.45 dBm 5.394400000 GHz 1.00 -70 -23.45 dBm 5.403800000 GHz 1.00 -80 -23.45 dBm 5.413200000 GHz 1.00 Center 5.32 GHz 5 MHz/ Span 50 MHz Date: 14.APR.2023 15:43:14

802.11n-HT40-Low	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] 6.78 dBm VBW 3 MHz SWT 20 ms 5.273200000 GHz Offset 1 dB dB [T1] 26.00 dB SW 40.00000000 MHz Temp 1 [T1] dBm 1 -19.34 dBm 5.249000000 GHz 2 -18.92 dBm 5.291200000 GHz Center 5.27 GHz 10 MHz/ Span 100 MHz Date: 14.APR.2023 15:43:58
802.11n-HT40-High	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] 6.20 dBm VBW 3 MHz SWT 20 ms 5.313000000 GHz Offset 1 dB dB [T1] 26.00 dB SW 40.00000000 MHz Temp 1 [T1] dBm 1 -19.55 dBm 5.289000000 GHz 2 -19.54 dBm 5.331200000 GHz Center 5.31 GHz 10 MHz/ Span 100 MHz Date: 14.APR.2023 15:44:25
802.11ac-VHT80	 Ref 20 dBm +Att 30 dB RBW 3 MHz Marker 1 [T1] 9.47 dBm VBW 10 MHz SWT 20 ms 5.281000000 GHz Offset 1 dB dB [T1] 26.00 dB SW 86.76000000 MHz Temp 1 [T1] dBm 1 -16.93 dBm 5.246800000 GHz 2 -16.20 dBm 5.333560000 GHz Center 5.29 GHz 18 MHz/ Span 180 MHz Date: 14.APR.2023 15:45:31

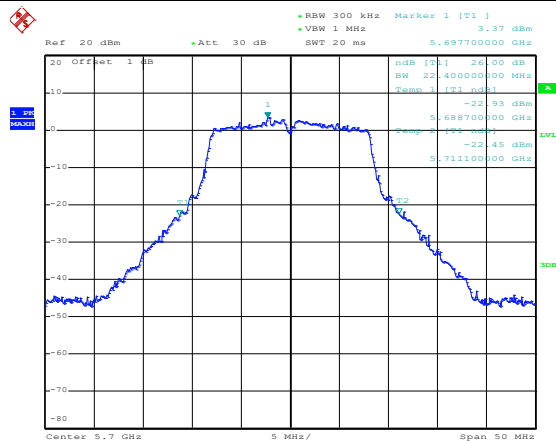
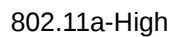
5470-5725MHz



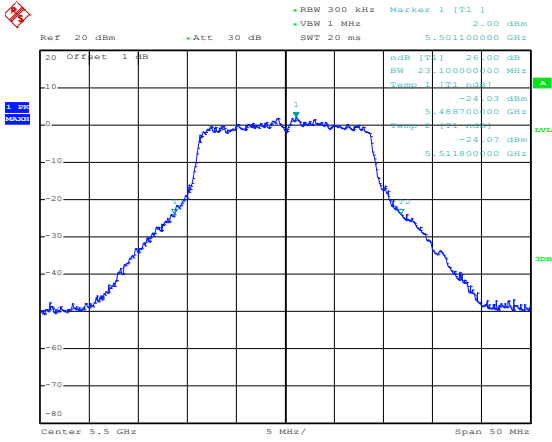
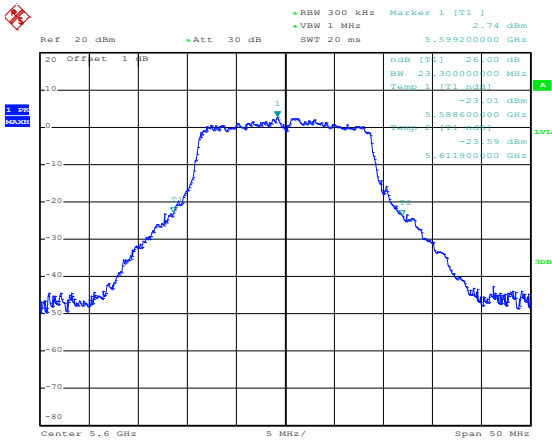
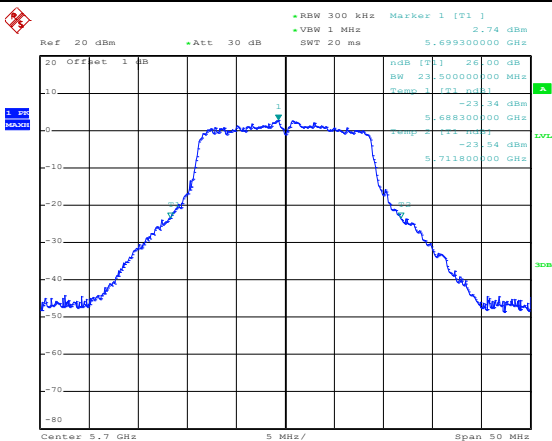
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Date: 14.APR.2023 16:23:03



Date: 14.APR.2023 16:23:43

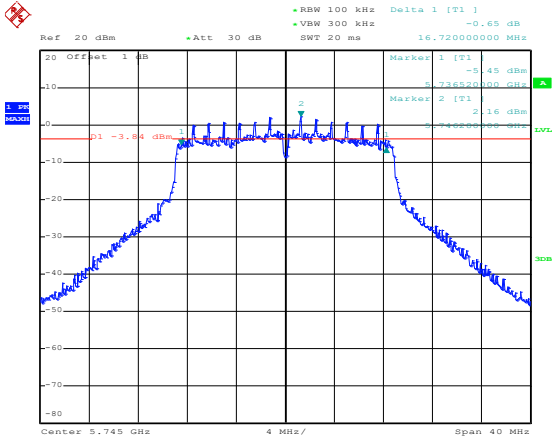
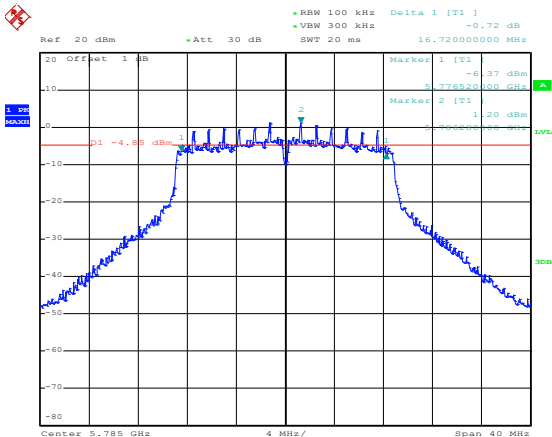
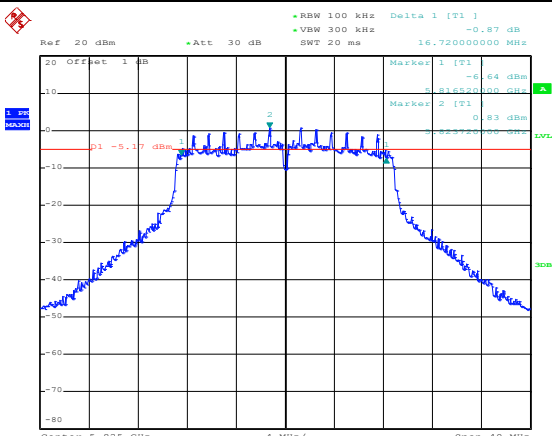
802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 2.00 dBm •VSW 1 MHz SWR 20 ms 5.501300000 GHz 20 Offset 1 dB n dB [T1] -24.00 dBm BW 23.100000000 MHz Temp 1 [T1] n dBm -24.03 dBm 5.488700000 GHz -24.07 dBm 5.511800000 GHz Center 5.5 GHz 5 MHz/ Span 50 MHz Date: 14.APR.2023 16:21:50
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 2.74 dBm •VSW 1 MHz SWR 20 ms 5.599200000 GHz 20 Offset 1 dB n dB [T1] -23.00 dBm BW 23.300000000 MHz Temp 1 [T1] n dBm -23.01 dBm 5.588600000 GHz -23.39 dBm 5.611900000 GHz Center 5.6 GHz 5 MHz/ Span 50 MHz Date: 14.APR.2023 16:22:06
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 2.74 dBm •VSW 1 MHz SWR 20 ms 5.699300000 GHz 20 Offset 1 dB n dB [T1] -23.00 dBm BW 23.500000000 MHz Temp 1 [T1] n dBm -23.34 dBm 5.688300000 GHz -23.54 dBm 5.711800000 GHz Center 5.7 GHz 5 MHz/ Span 50 MHz Date: 14.APR.2023 16:22:27

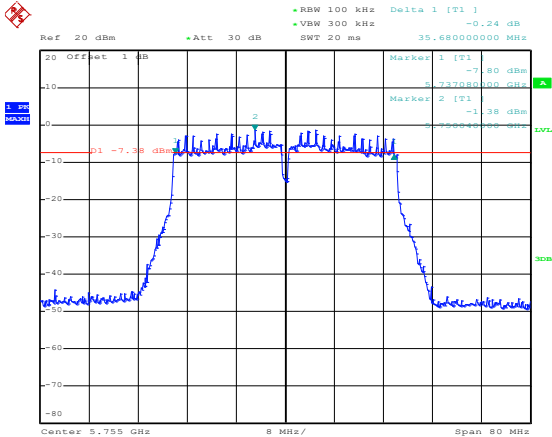
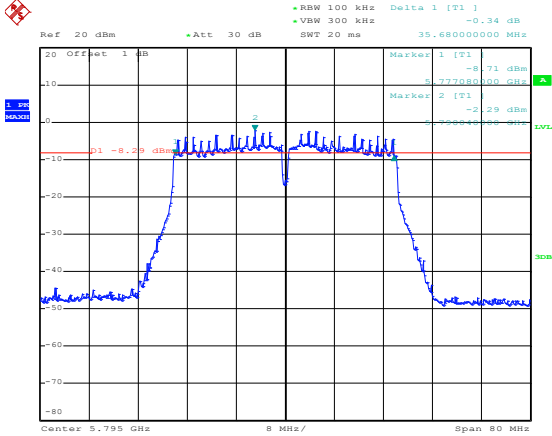
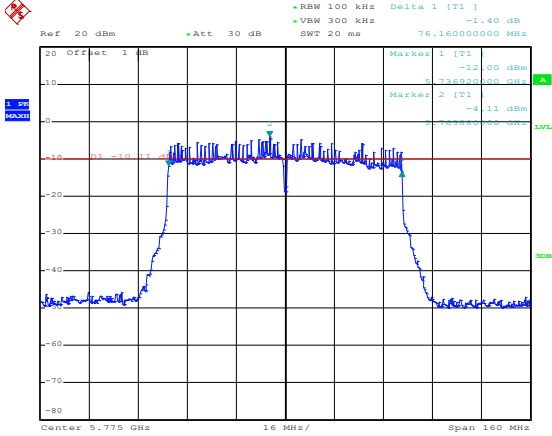




5725-5850MHz

802.11a-Low	Date: 14.APR.2023 17:25:44
802.11a-Middle	Date: 14.APR.2023 17:26:54
802.11a-High	Date: 14.APR.2023 17:27:39

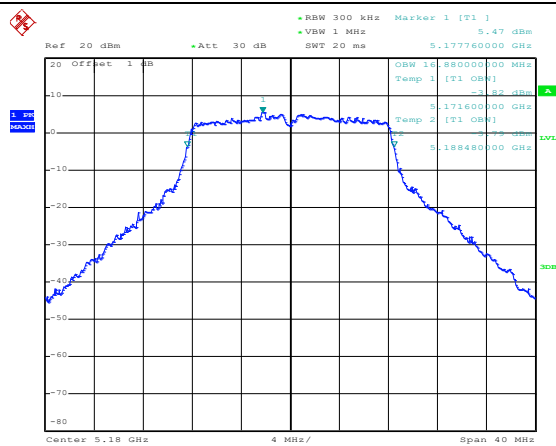
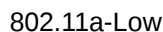
802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB •RBW 100 kHz Delta 1 [T1] -0.65 dB •VBW 300 kHz SWT 20 ms 16.720000000 MHz Marker 1 [T1] -5.45 dBm 5.735520000 GHz Marker 2 [T1] -2.16 dBm 5.745000000 GHz D1 -3.64 dBm Center 5.745 GHz 4 MHz/ Span 40 MHz Date: 14.APR.2023 17:28:28
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 100 kHz Delta 1 [T1] -0.72 dB •VBW 300 kHz SWT 20 ms 16.720000000 MHz Marker 1 [T1] -6.37 dBm 5.775520000 GHz Marker 2 [T1] -1.20 dBm 5.785000000 GHz D1 -4.86 dBm Center 5.785 GHz 4 MHz/ Span 40 MHz Date: 14.APR.2023 17:29:32
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB •RBW 100 kHz Delta 1 [T1] -0.87 dB •VBW 300 kHz SWT 20 ms 16.720000000 MHz Marker 1 [T1] -6.64 dBm 5.815520000 GHz Marker 2 [T1] -0.83 dBm 5.825000000 GHz D1 -5.17 dBm Center 5.825 GHz 4 MHz/ Span 40 MHz Date: 14.APR.2023 17:31:01

802.11n-HT40-Low	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] -0.24 dB VSW 300 kHz SWT 20 ms 35.68000000 MHz Marker 1 [T1] -7.80 dBm 5.777800000 GHz Marker 2 [T1] -11.38 dBm 5.778800000 GHz D1 -7.38 dBm Center 5.775 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 17:31:52
802.11n-HT40-High	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] -0.34 dB VSW 300 kHz SWT 20 ms 35.68000000 MHz Marker 1 [T1] -8.71 dBm 5.777800000 GHz Marker 2 [T1] -12.29 dBm 5.778800000 GHz D1 -8.29 dBm Center 5.775 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 17:33:48
802.11ac-VHT80	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] -1.40 dB VSW 300 kHz SWT 20 ms 76.16000000 MHz Marker 1 [T1] -12.00 dBm 5.778200000 GHz Marker 2 [T1] -14.11 dBm 5.779200000 GHz D1 -11.40 dBm Center 5.775 GHz 16 MHz/ Span 160 MHz Date: 14.APR.2023 17:34:43

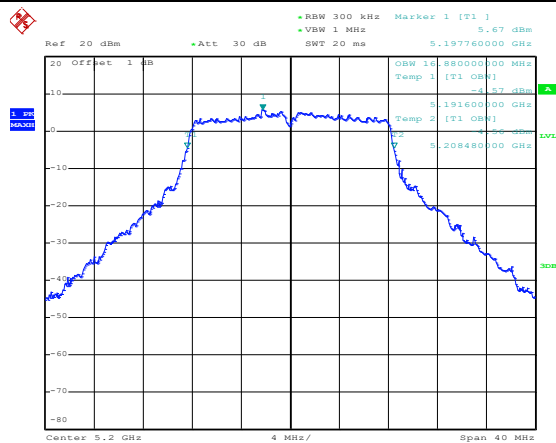
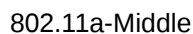
ANT 1

99% Bandwidth MHz

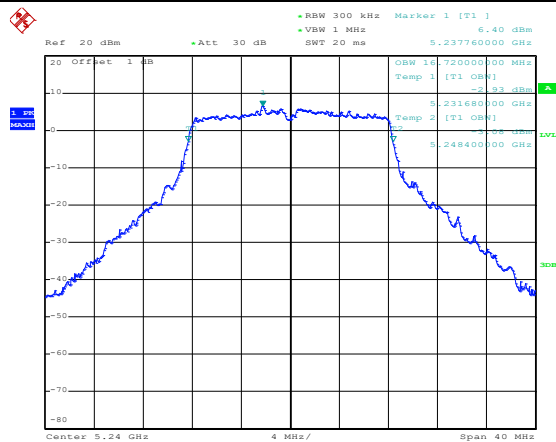
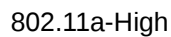
5150-5250MHz



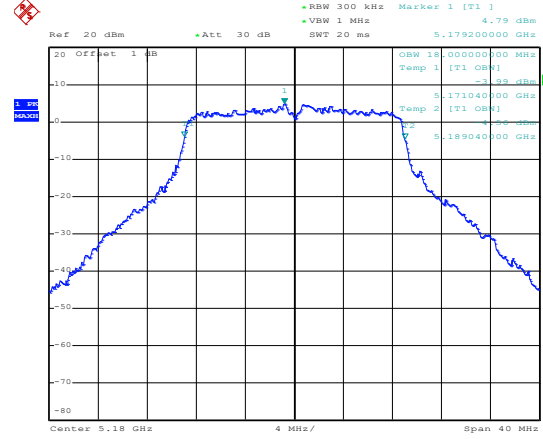
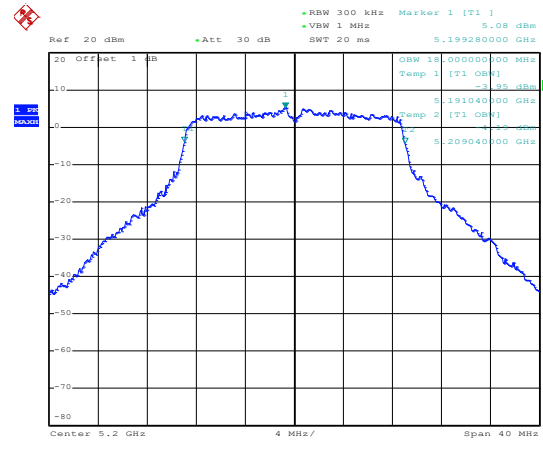
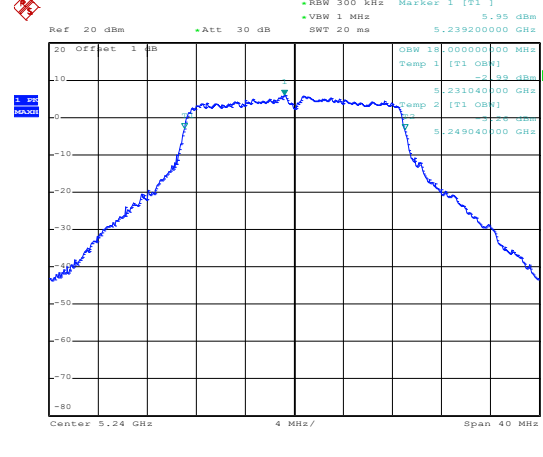
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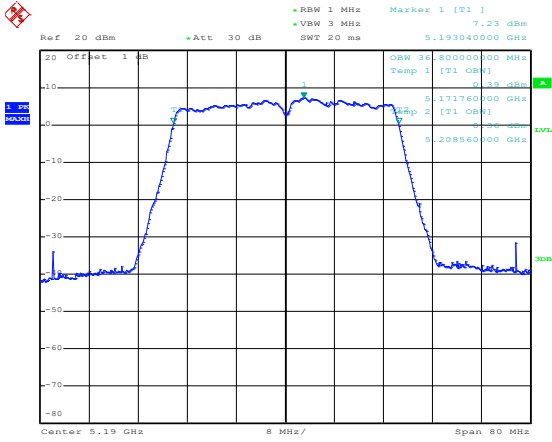
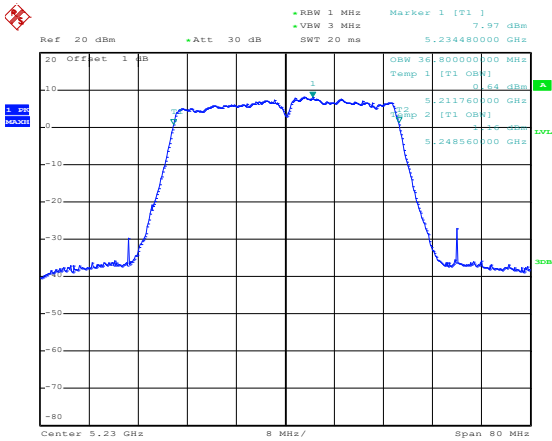
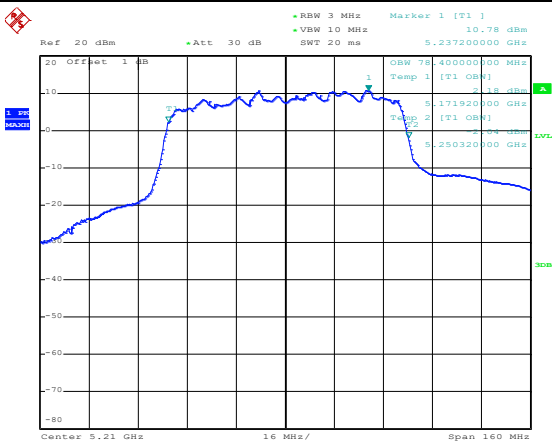


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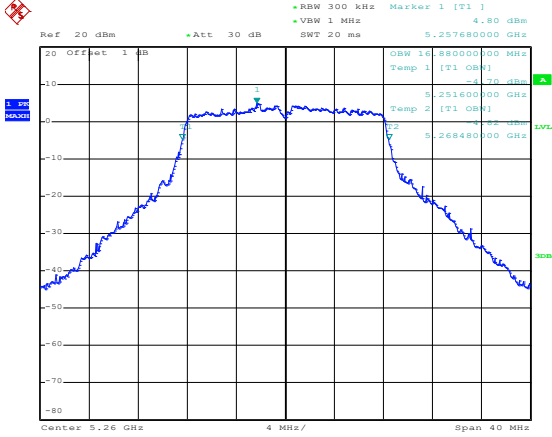
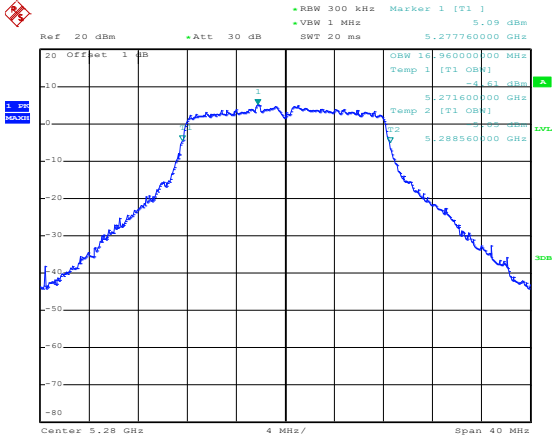
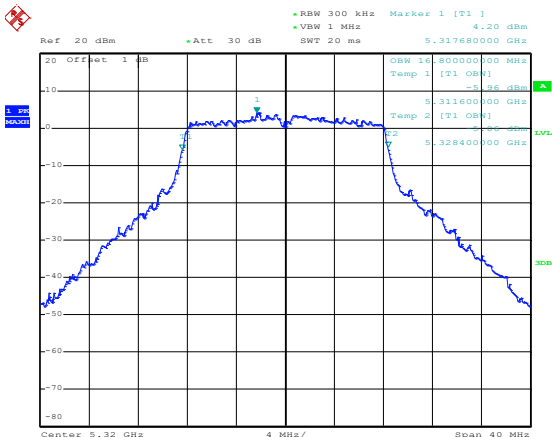


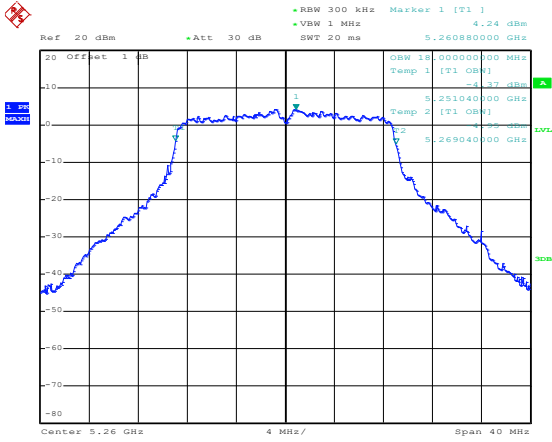
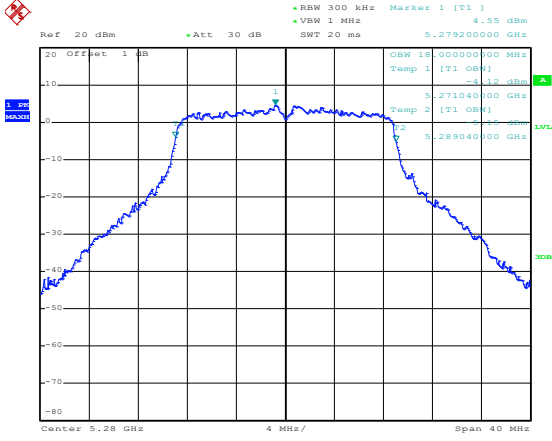
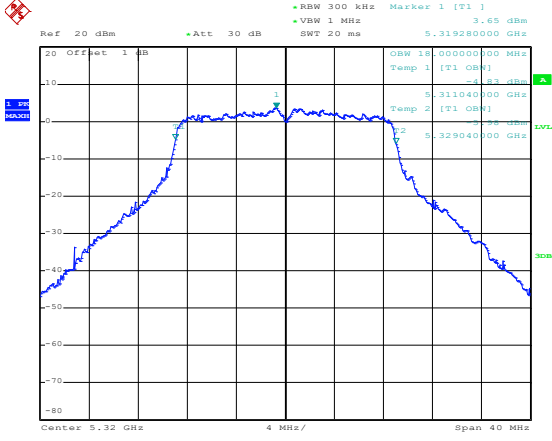
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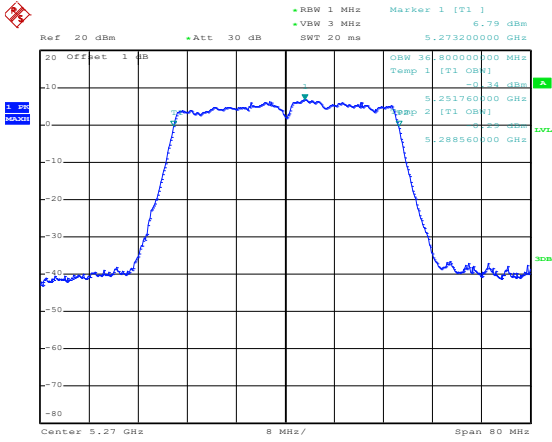
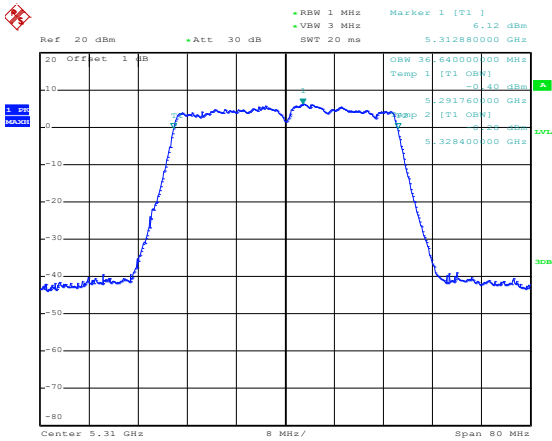
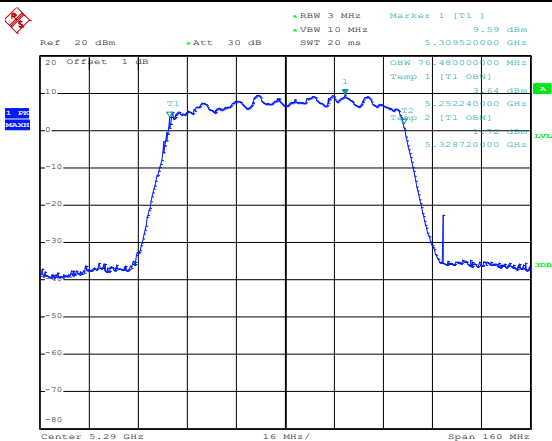
Channel	Plot	Date
802.11n-HT20-Low	 Ref 20 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1] 4.79 dBm *VBW 1 MHz SWT 20 ms 5.179200000 GHz 20 Offset 1 dB OBW 18.000000000 MHz Temp 1 [T1 OBW] -1.93 dBm 5.171040000 GHz Temp 2 [T1 OBW] -1.93 dBm 5.189040000 GHz 4.79 dBm Center 5.18 GHz 4 MHz/ Span 40 MHz	Date: 14.APR.2023 14:46:26
802.11n-HT20-Middle	 Ref 20 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1] 5.08 dBm *VBW 1 MHz SWT 20 ms 5.199280000 GHz 20 Offset 1 dB OBW 18.000000000 MHz Temp 1 [T1 OBW] -1.93 dBm 5.191040000 GHz Temp 2 [T1 OBW] -1.93 dBm 5.209040000 GHz 4.79 dBm Center 5.2 GHz 4 MHz/ Span 40 MHz	Date: 14.APR.2023 14:47:00
802.11n-HT20-High	 Ref 20 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1] 5.95 dBm *VBW 1 MHz SWT 20 ms 5.239200000 GHz 20 Offset 1 dB OBW 18.000000000 MHz Temp 1 [T1 OBW] -1.93 dBm 5.231040000 GHz Temp 2 [T1 OBW] -1.93 dBm 5.249040000 GHz 5.24 dBm Center 5.24 GHz 4 MHz/ Span 40 MHz	Date: 14.APR.2023 14:48:09

802.11n-HT40-Low	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] 7.23 dBm VSW 3 MHz SWT 20 ms 5.193040000 GHz OSW 30.00000000 MHz Temp 1 [T1] 0.33 dBm 5.171760000 GHz Temp 2 [T1] 0.33 dBm 5.208560000 GHz Center 5.19 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 14:50:26
802.11n-HT40-High	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] 7.97 dBm VSW 3 MHz SWT 20 ms 5.234480000 GHz OSW 30.00000000 MHz Temp 1 [T1] 0.64 dBm 5.211760000 GHz Temp 2 [T1] 0.64 dBm 5.248560000 GHz Center 5.23 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 14:51:19
802.11ac-VHT80	 Ref 20 dBm +Att 30 dB RBW 3 MHz Marker 1 [T1] 10.78 dBm VSW 10 MHz SWT 20 ms 5.237200000 GHz OSW 78.40000000 MHz Temp 1 [T1] 2.18 dBm 5.171920000 GHz Temp 2 [T1] 2.18 dBm 5.250320000 GHz Center 5.21 GHz 16 MHz/ Span 160 MHz Date: 14.APR.2023 14:52:19

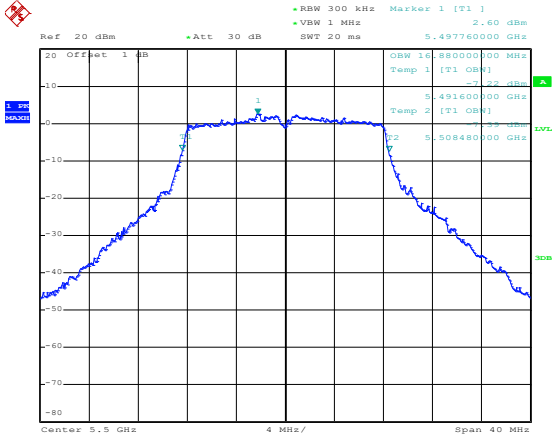
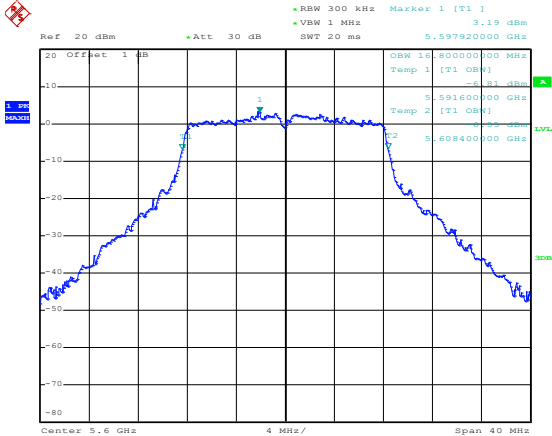
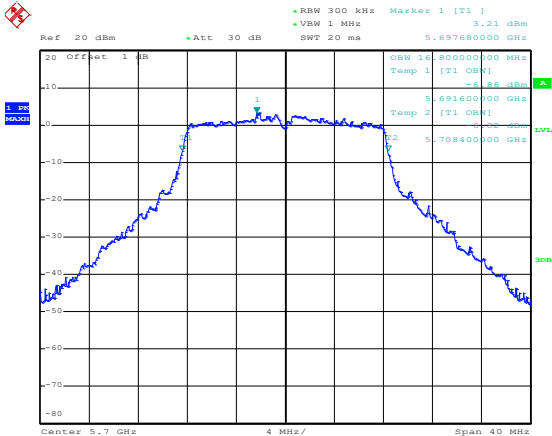
5250-5350MHz

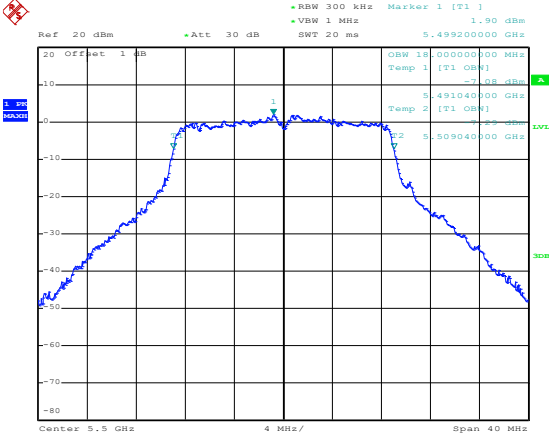
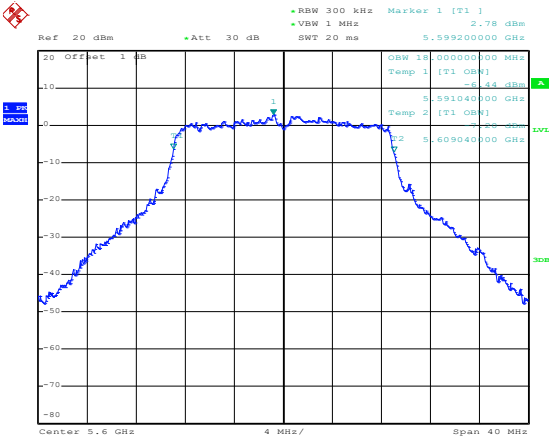
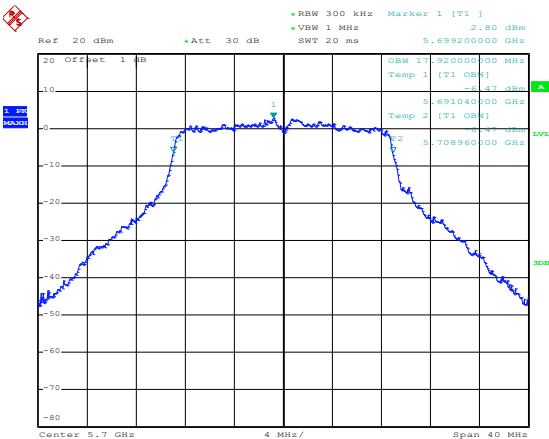
802.11a-Low	 Date: 14.APR.2023 15:29:33
802.11a-Middle	 Date: 14.APR.2023 15:32:46
802.11a-High	 Date: 14.APR.2023 15:33:01

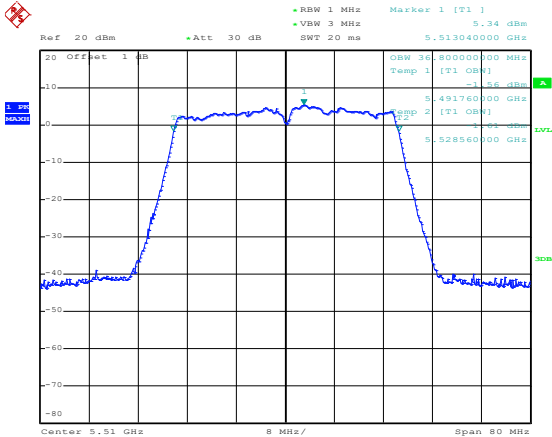
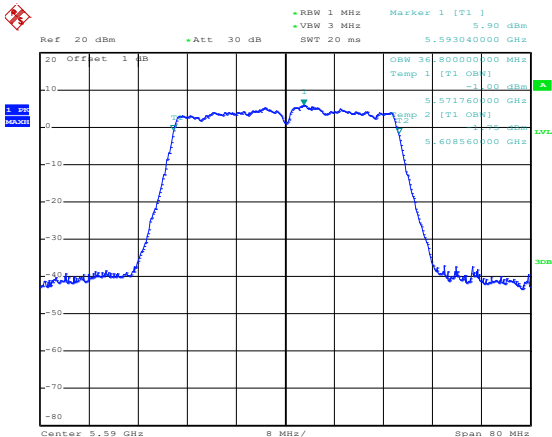
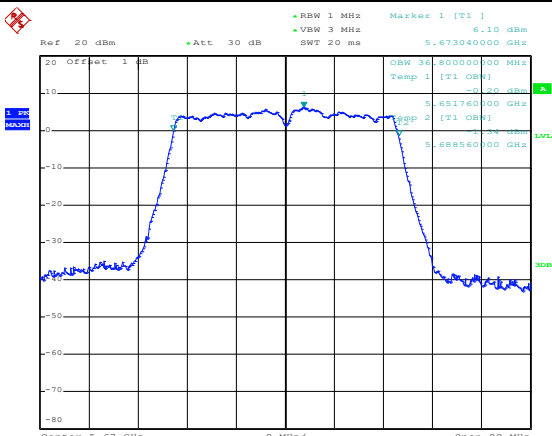
802.11n-HT20-Low	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 4.24 dBm +VSW 1 MHz SWT 20 ms 5.260880000 GHz OSW 18.000000000 MHz Temp 1 [T1 OSW] -4.37 dBm 5.251040000 GHz Temp 2 [T1 OSW] -4.55 dBm 5.269040000 GHz Center 5.26 GHz 4 MHz/ Span 40 MHz Date: 14.APR.2023 15:33:29
802.11n-HT20-Middle	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 4.55 dBm +VSW 1 MHz SWT 20 ms 5.279200000 GHz OSW 18.000000000 MHz Temp 1 [T1 OSW] -4.12 dBm 5.271040000 GHz Temp 2 [T1 OSW] -4.55 dBm 5.289040000 GHz Center 5.28 GHz 4 MHz/ Span 40 MHz Date: 14.APR.2023 15:33:50
802.11n-HT20-High	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 3.65 dBm +VSW 1 MHz SWT 20 ms 5.319280000 GHz OSW 18.000000000 MHz Temp 1 [T1 OSW] -4.83 dBm 5.311040000 GHz Temp 2 [T1 OSW] -4.55 dBm 5.329040000 GHz Center 5.32 GHz 4 MHz/ Span 40 MHz Date: 14.APR.2023 15:34:20

802.11n-HT40-Low	 Ref 20 dBm +Att 30 dB RBW 1 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] 6.79 dBm 5.273200000 GHz OSW 30.80000000 MHz Temp 1 [T1] 0.34 dBm 5.251760000 GHz App 2 [T1] 0.34 dBm 5.288560000 GHz Center 5.27 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 15:34:51
802.11n-HT40-High	 Ref 20 dBm +Att 30 dB RBW 1 MHz VSW 3 MHz SWT 20 ms Marker 1 [T1] 6.12 dBm 5.312880000 GHz OSW 30.84000000 MHz Temp 1 [T1] 0.40 dBm 5.291760000 GHz App 2 [T1] 0.40 dBm 5.328400000 GHz Center 5.31 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 15:35:05
802.11ac-VHT80	 Ref 20 dBm +Att 30 dB RBW 3 MHz VSW 10 MHz SWT 20 ms Marker 1 [T1] 9.59 dBm 5.309520000 GHz OSW 76.48000000 MHz Temp 1 [T1] 3.64 dBm 5.252240000 GHz App 2 [T1] 3.64 dBm 5.328720000 GHz Center 5.29 GHz 16 MHz/ Span 160 MHz Date: 14.APR.2023 15:35:46

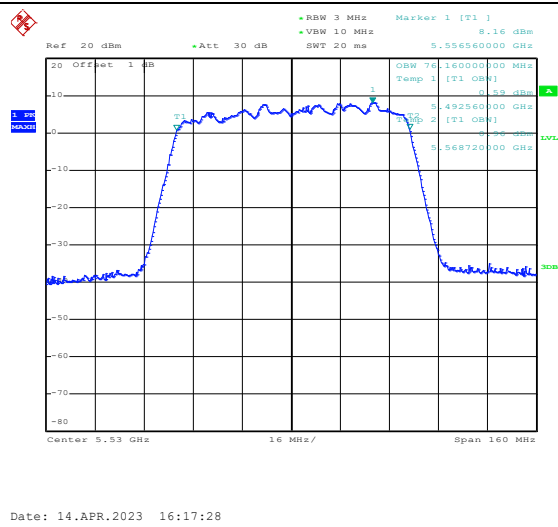
5470-5725MHz

802.11a-Low	 Date: 14.APR.2023 16:14:44
802.11a-Middle	 Date: 14.APR.2023 16:15:02
802.11a-High	 Date: 14.APR.2023 16:15:15

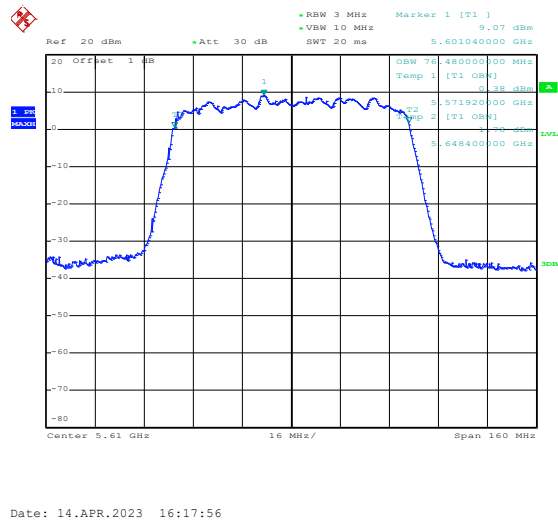
802.11n-HT20-Low	 Date: 14.APR.2023 16:15:32
802.11n-HT20-Middle	 Date: 14.APR.2023 16:15:45
802.11n-HT20-High	 Date: 14.APR.2023 16:16:00

802.11n-HT40-Low	 Ref 20 dBm +Att 30 dB SWT 20 ms Marker 1 [T1] 5.513040000 GHz OSW 30.800000000 MHz Temp 1 [T1 OSW] -1.56 dBm Temp 2 [T1 OSW] 5.491760000 GHz Temp 3 [T1 OSW] 5.528560000 GHz Center 5.51 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 16:16:27
802.11n-HT40- Middle	 Ref 20 dBm +Att 30 dB SWT 20 ms Marker 1 [T1] 5.593040000 GHz OSW 30.800000000 MHz Temp 1 [T1 OSW] -1.00 dBm Temp 2 [T1 OSW] 5.571760000 GHz Temp 3 [T1 OSW] 5.608560000 GHz Center 5.59 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 16:16:46
802.11n-HT40-High	 Ref 20 dBm +Att 30 dB SWT 20 ms Marker 1 [T1] 5.673040000 GHz OSW 30.800000000 MHz Temp 1 [T1 OSW] -0.20 dBm Temp 2 [T1 OSW] 5.651760000 GHz Temp 3 [T1 OSW] 5.688560000 GHz Center 5.67 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 16:17:00

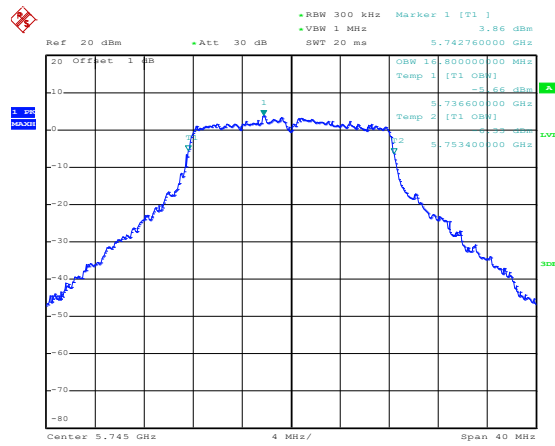
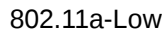
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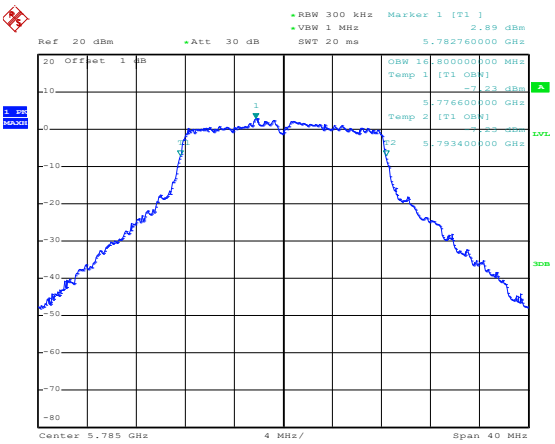
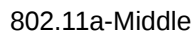
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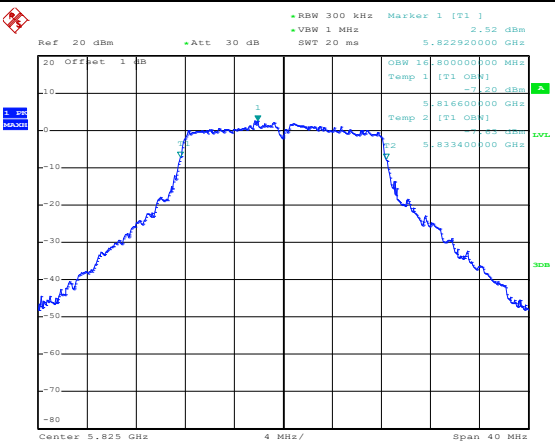
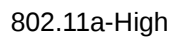
5725-5850MHz



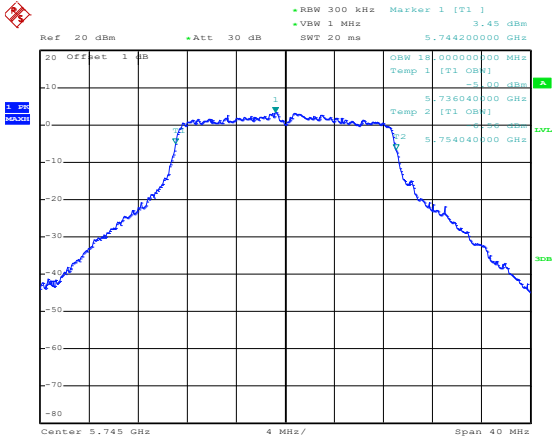
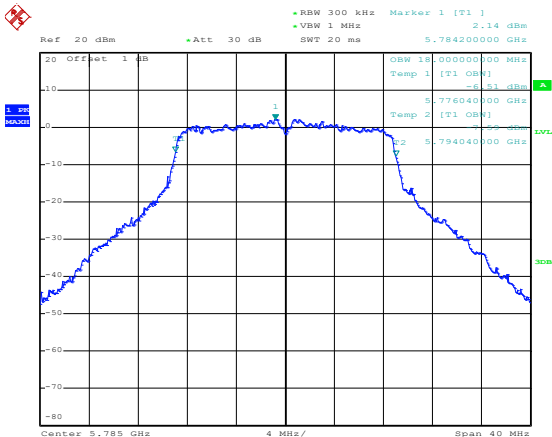
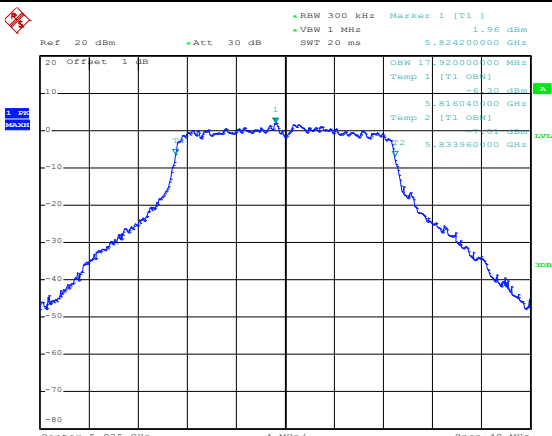
Date: 14.APR.2023 17:37:31
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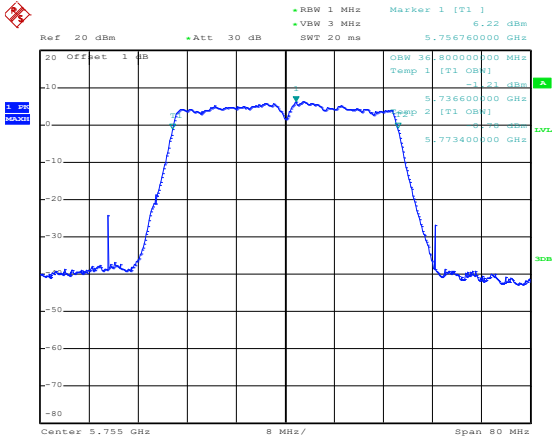
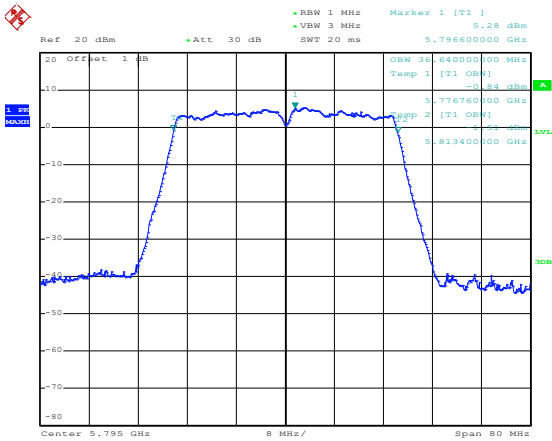
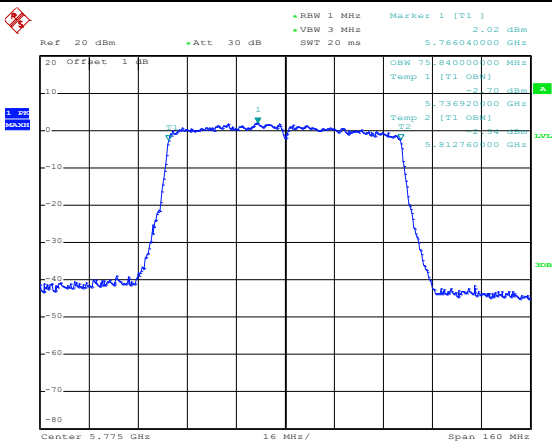


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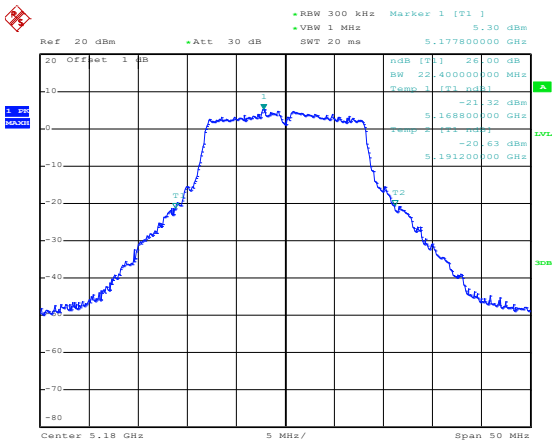
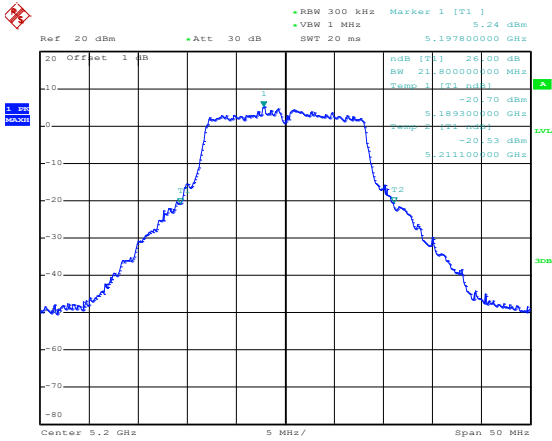
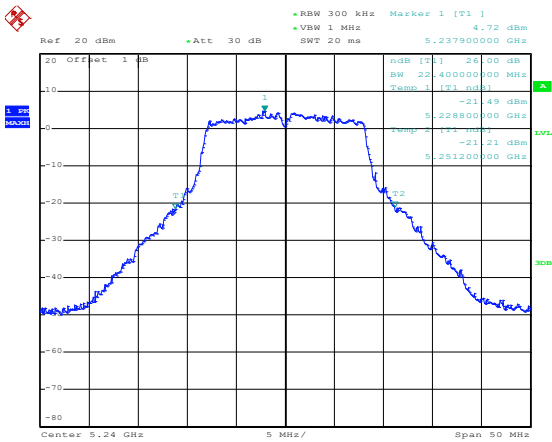


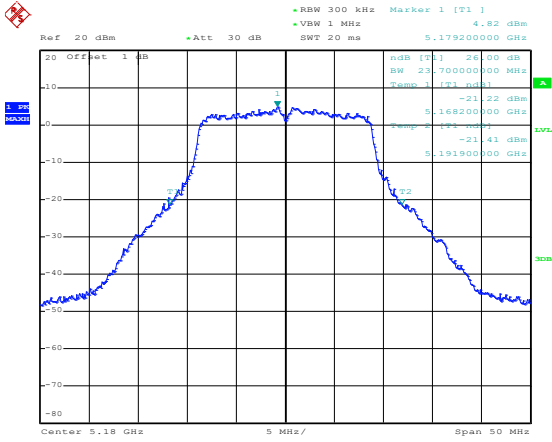
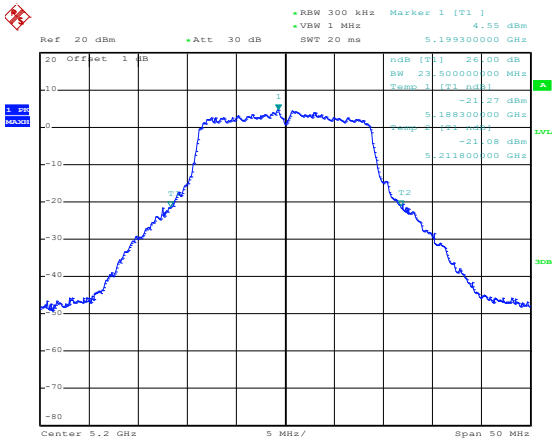
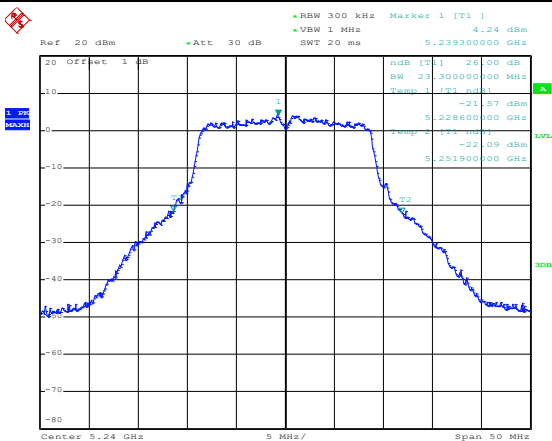
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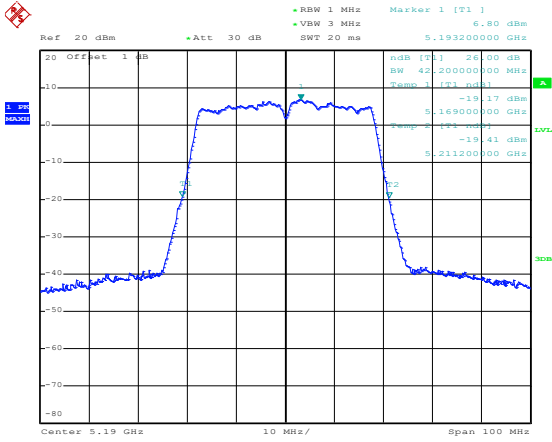
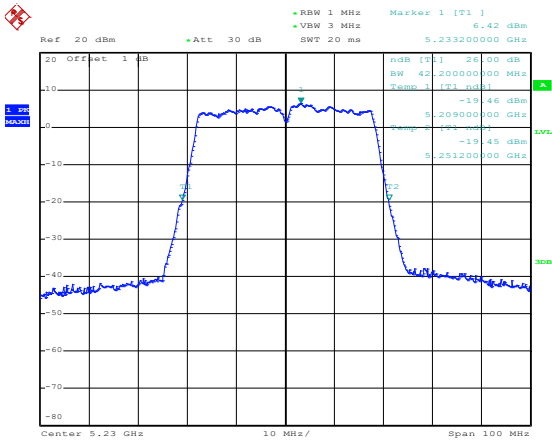
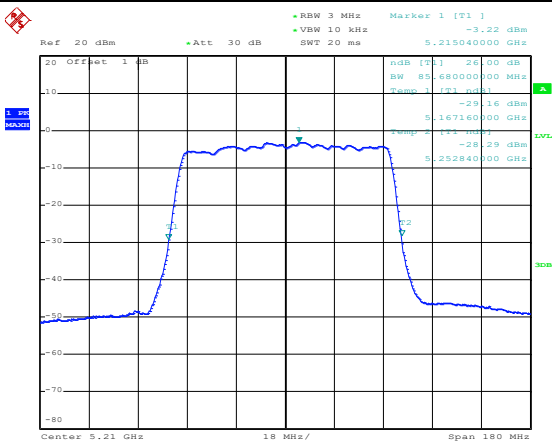
802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 3.45 dBm •VSW 1 MHz SWT 20 ms 5.744200000 GHz OSW 18.000000000 MHz Temp 1 [T1 OSW] -5.00 dBm 5.736040000 GHz Temp 2 [T1 OSW] -5.58 dBm 5.754040000 GHz Center 5.745 GHz 4 MHz/ Span 40 MHz Date: 14.APR.2023 17:39:20
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 2.14 dBm •VSW 1 MHz SWT 20 ms 5.784200000 GHz OSW 18.000000000 MHz Temp 1 [T1 OSW] -5.51 dBm 5.776040000 GHz Temp 2 [T1 OSW] -5.58 dBm 5.794040000 GHz Center 5.785 GHz 4 MHz/ Span 40 MHz Date: 14.APR.2023 17:40:50
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 1.96 dBm •VSW 1 MHz SWT 20 ms 5.824200000 GHz OSW 17.920000000 MHz Temp 1 [T1 OSW] -5.30 dBm 5.816040000 GHz Temp 2 [T1 OSW] -5.58 dBm 5.833960000 GHz Center 5.825 GHz 4 MHz/ Span 40 MHz Date: 14.APR.2023 17:41:05

802.11n-HT40-Low	 Ref 20 dBm +Att 30 dB SWT 20 ms Marker 1 [T1] 5.756760000 GHz 6.22 dBm OSW 30.80000000 MHz Temp 1 [T1 OSW] -1.21 dBm Temp 2 [T1 OSW] -1.21 dBm OSW 30.80000000 MHz Temp 1 [T1 OSW] -1.21 dBm Temp 2 [T1 OSW] -1.21 dBm OSW 30.80000000 MHz Temp 1 [T1 OSW] -1.21 dBm Temp 2 [T1 OSW] -1.21 dBm Center 5.755 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 17:41:48
802.11n-HT40-High	 Ref 20 dBm +Att 30 dB SWT 20 ms Marker 1 [T1] 5.796600000 GHz 5.28 dBm OSW 30.80000000 MHz Temp 1 [T1 OSW] -0.64 dBm Temp 2 [T1 OSW] -0.64 dBm OSW 30.80000000 MHz Temp 1 [T1 OSW] -0.64 dBm Temp 2 [T1 OSW] -0.64 dBm OSW 30.80000000 MHz Temp 1 [T1 OSW] -0.64 dBm Temp 2 [T1 OSW] -0.64 dBm Center 5.795 GHz 8 MHz/ Span 80 MHz Date: 14.APR.2023 17:42:15
802.11ac-VHT80	 Ref 20 dBm +Att 30 dB SWT 20 ms Marker 1 [T1] 5.766040000 GHz 2.02 dBm OSW 75.84000000 MHz Temp 1 [T1 OSW] -0.79 dBm Temp 2 [T1 OSW] -0.79 dBm OSW 75.84000000 MHz Temp 1 [T1 OSW] -0.79 dBm Temp 2 [T1 OSW] -0.79 dBm OSW 75.84000000 MHz Temp 1 [T1 OSW] -0.79 dBm Temp 2 [T1 OSW] -0.79 dBm Center 5.775 GHz 16 MHz/ Span 160 MHz Date: 14.APR.2023 17:42:41

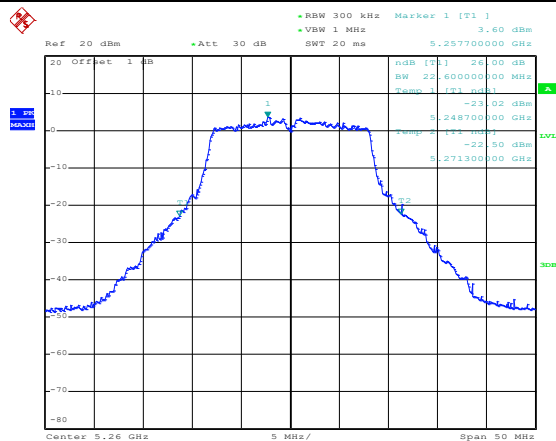
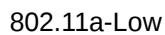
ANT 2
26 dB Bandwidth MHz
5150-5250MHz

802.11a-Low	 Ref 20 dBm Offset 1 dB Att 30 dB RBW 300 kHz VBW 1 MHz SWT 20 ms Marker 1 [T1] 5.30 dBm 5.177800000 GHz ndB [T1] -20.63 dBm BW 22.400000000 MHz Temp 1 [T1] ndB 1.20 dBm 30dB 5.18 GHz 5 MHz/ 50 MHz Date: 17.APR.2023 10:57:34
802.11a-Middle	 Ref 20 dBm Offset 1 dB Att 30 dB RBW 300 kHz VBW 1 MHz SWT 20 ms Marker 1 [T1] 5.24 dBm 5.197800000 GHz ndB [T1] -20.70 dBm BW 21.800000000 MHz Temp 1 [T1] ndB 1.20 dBm 30dB 5.2 GHz 5 MHz/ 50 MHz Date: 17.APR.2023 10:57:45
802.11a-High	 Ref 20 dBm Offset 1 dB Att 30 dB RBW 300 kHz VBW 1 MHz SWT 20 ms Marker 1 [T1] 4.72 dBm 5.237900000 GHz ndB [T1] -21.49 dBm BW 22.400000000 MHz Temp 1 [T1] ndB 1.20 dBm 30dB 5.24 GHz 5 MHz/ 50 MHz Date: 17.APR.2023 10:58:02

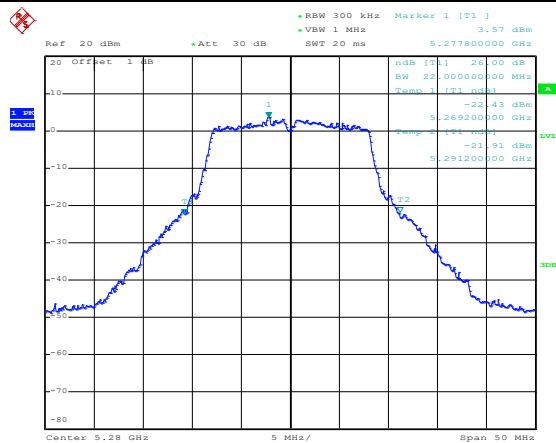
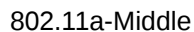
802.11n-HT20-Low	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 4.82 dBm VBW 1 MHz SWT 20 ms 5.179200000 GHz Offset 1 dB dB [T1] 26.00 dB BW 23.700000000 MHz Temp 1 [T1] dBm -21.22 dBm 5.168200000 GHz -21.41 dBm 5.193800000 GHz Center 5.18 GHz 5 MHz/ Span 50 MHz Date: 17.APR.2023 10:58:50
802.11n-HT20-Middle	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 4.55 dBm VBW 1 MHz SWT 20 ms 5.199300000 GHz Offset 1 dB dB [T1] 26.00 dB BW 23.500000000 MHz Temp 1 [T1] dBm -21.27 dBm 5.188300000 GHz -21.08 dBm 5.211800000 GHz Center 5.2 GHz 5 MHz/ Span 50 MHz Date: 17.APR.2023 10:59:21
802.11n-HT20-High	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 4.24 dBm VBW 1 MHz SWT 20 ms 5.239300000 GHz Offset 1 dB dB [T1] 26.00 dB BW 23.300000000 MHz Temp 1 [T1] dBm -21.57 dBm 5.228600000 GHz -22.09 dBm 5.251900000 GHz Center 5.24 GHz 5 MHz/ Span 50 MHz Date: 17.APR.2023 10:59:38

802.11n-HT40-Low	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] 6.80 dBm VSW 3 MHz SWT 20 ms 5.193200000 GHz nB [T1] 26.00 dB BW 40.200000000 MHz Temp 1 [T1] nB -19.17 dBm 5.169000000 GHz -19.41 dBm 5.212000000 GHz Center 5.19 GHz 10 MHz/ Span 100 MHz Date: 17.APR.2023 11:00:19
802.11n-HT40-High	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] 6.42 dBm VSW 3 MHz SWT 20 ms 5.233200000 GHz nB [T1] 26.00 dB BW 40.200000000 MHz Temp 1 [T1] nB -19.46 dBm 5.209000000 GHz -19.45 dBm 5.251200000 GHz Center 5.23 GHz 10 MHz/ Span 100 MHz Date: 17.APR.2023 11:00:38
802.11ac-VHT80	 Ref 20 dBm +Att 30 dB RBW 3 MHz Marker 1 [T1] -3.22 dBm VSW 10 kHz SWT 20 ms 5.215040000 GHz nB [T1] 26.00 dB BW 85.680000000 MHz Temp 1 [T1] nB -29.16 dBm 5.167160000 GHz -29.29 dBm 5.252840000 GHz Center 5.21 GHz 18 MHz/ Span 180 MHz Date: 17.APR.2023 11:01:10

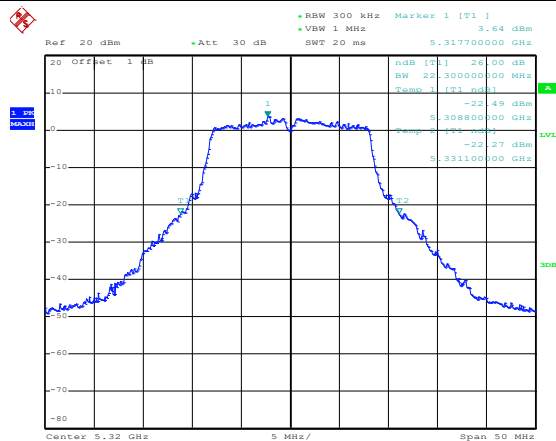
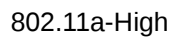
5250-5350MHz



Date: 17.APR.2023 13:47:12

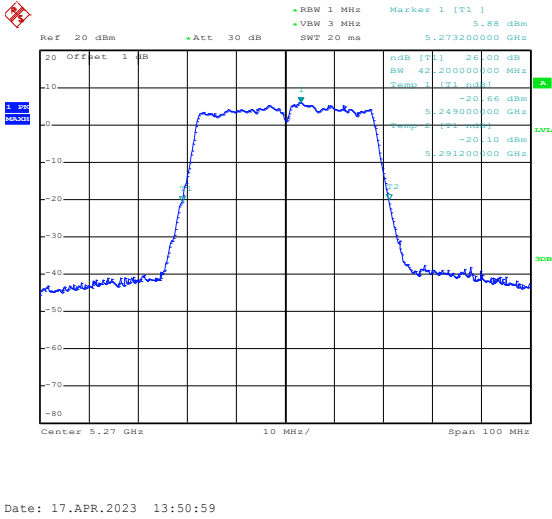
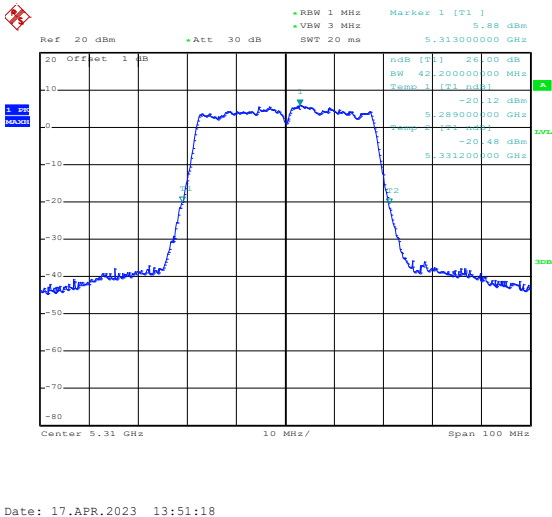
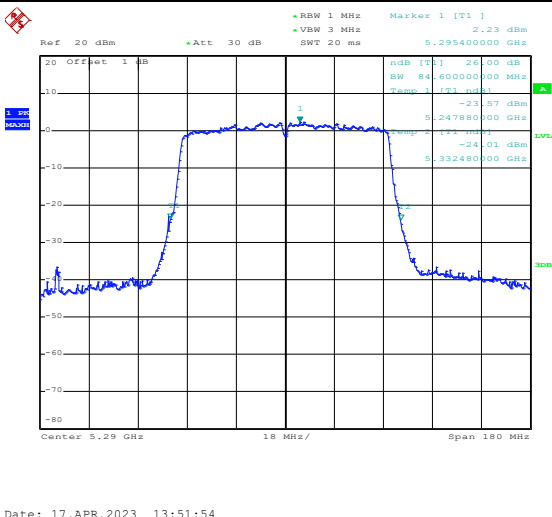


Date: 17.APR.2023 13:48:19

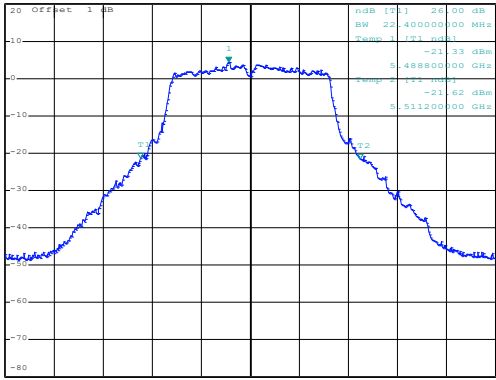
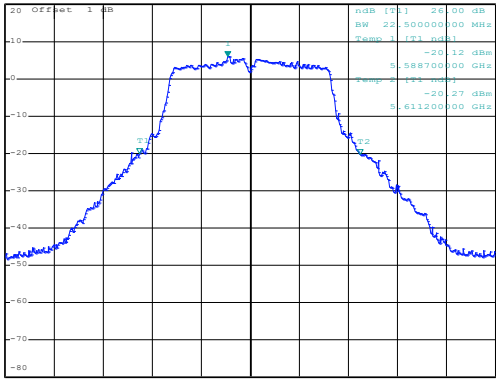
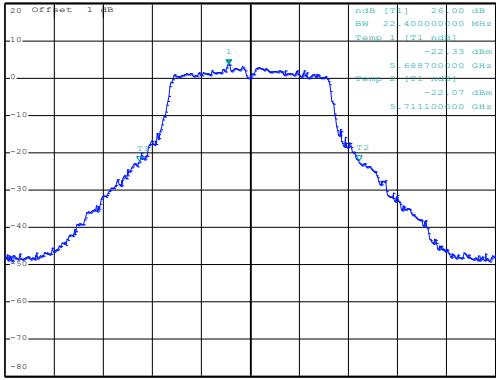


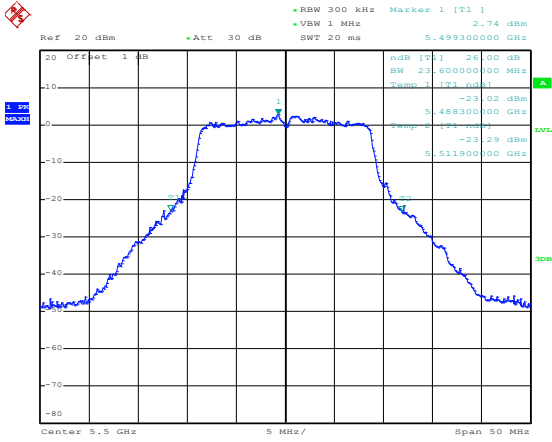
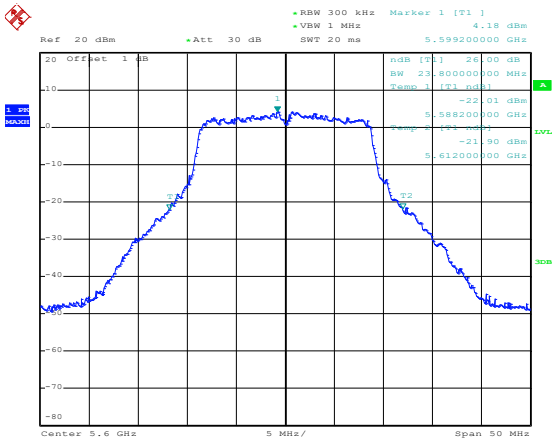
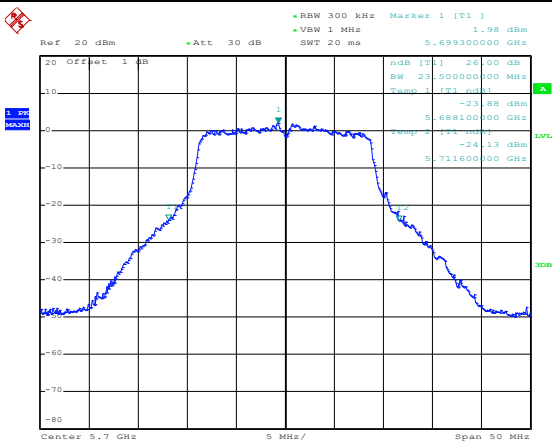
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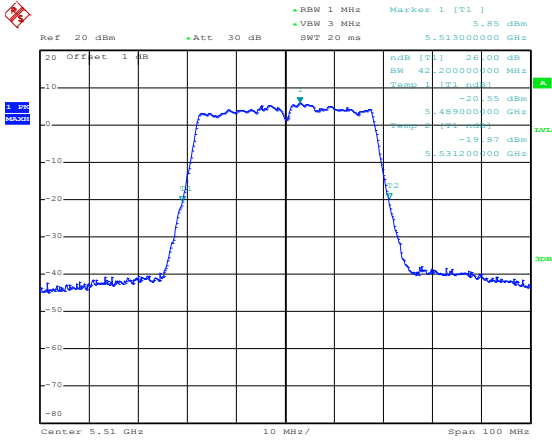
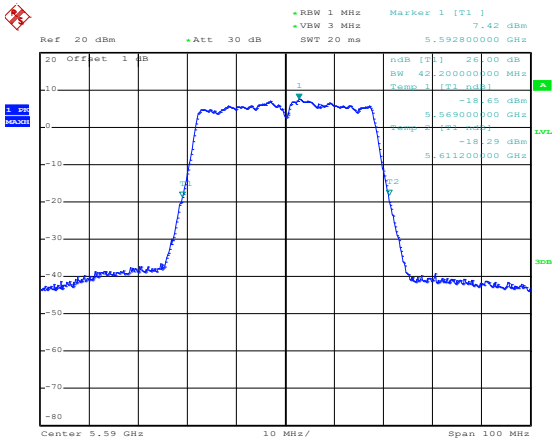
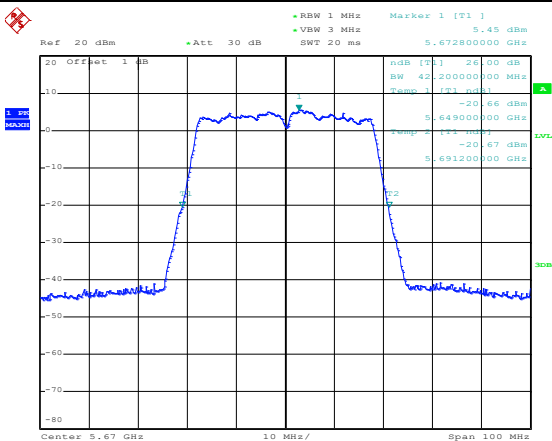
Channel	Frequency (GHz)	Power (dBm)	Bandwidth (MHz)	Resolution (kHz)	Span (MHz)	Center (GHz)	Date	Time
802.11n-HT20-Low	5.26	26.90	23.50	300	1	5.26	17.APR.2023	13:49:23
802.11n-HT20-Middle	5.28	26.90	23.40	300	1	5.28	17.APR.2023	13:49:55
802.11n-HT20-High	5.32	26.90	23.00	300	1	5.32	17.APR.2023	13:50:18

802.11n-HT40-Low	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] 5.88 dBm VBW 3 MHz SWT 20 ms 5.273200000 GHz Offset 1 dB dBm [T1] 20.00 dBm BW 40.00000000 MHz Temp 1 [T1] dBm -20.66 dBm 5.249000000 GHz -20.10 dBm 5.291200000 GHz Center 5.27 GHz 10 MHz/ Span 100 MHz Date: 17.APR.2023 13:50:59
802.11n-HT40-High	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] 5.88 dBm VBW 3 MHz SWT 20 ms 5.313000000 GHz Offset 1 dB dBm [T1] 20.00 dBm BW 40.00000000 MHz Temp 1 [T1] dBm -20.12 dBm 5.289000000 GHz -20.48 dBm 5.331200000 GHz Center 5.31 GHz 10 MHz/ Span 100 MHz Date: 17.APR.2023 13:51:18
802.11ac-VHT80	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] 2.23 dBm VBW 3 MHz SWT 20 ms 5.295400000 GHz Offset 1 dB dBm [T1] 20.00 dBm BW 84.60000000 MHz Temp 1 [T1] dBm -23.57 dBm 5.247880000 GHz -24.01 dBm 5.332480000 GHz Center 5.29 GHz 18 MHz/ Span 180 MHz Date: 17.APR.2023 13:51:54

5470-5725MHz

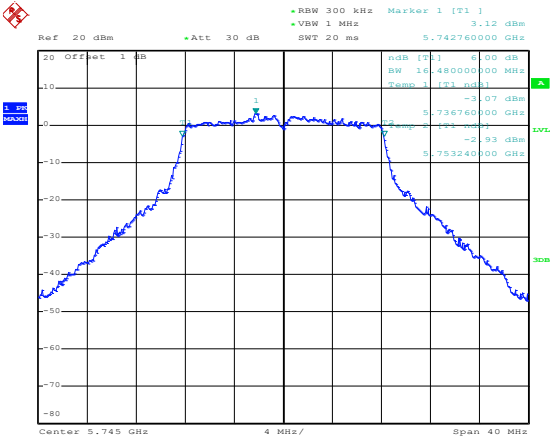
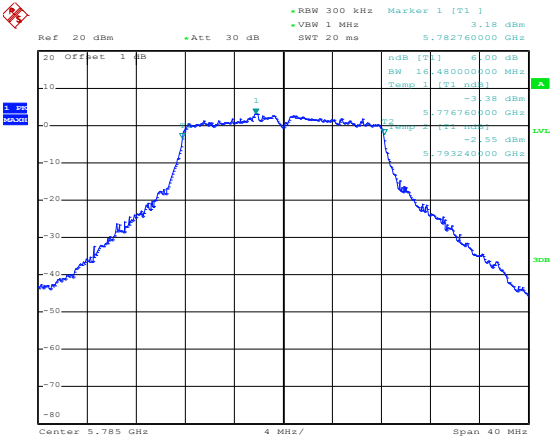
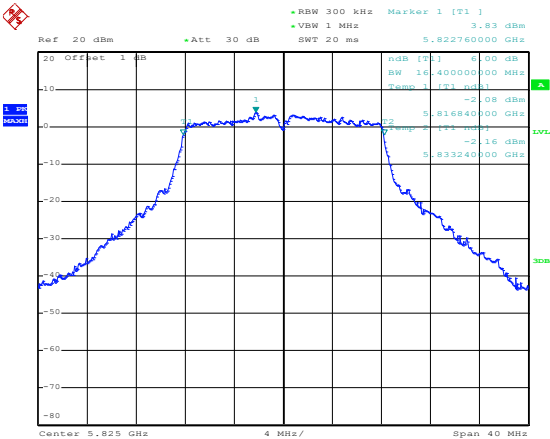
802.11a-Low	 Ref: 20 dBm Att: 30 dB RBW: 300 kHz VBW: 1 MHz Marker 1 [T1]: 5.497800000 GHz 4.39 dBm Center: 5.5 GHz Span: 50 MHz Date: 17.APR.2023 14:23:32
802.11a-Middle	 Ref: 20 dBm Att: 30 dB RBW: 300 kHz VBW: 1 MHz Marker 1 [T1]: 5.597700000 GHz 5.98 dBm Center: 5.6 GHz Span: 50 MHz Date: 17.APR.2023 14:24:19
802.11a-High	 Ref: 20 dBm Att: 30 dB RBW: 300 kHz VBW: 1 MHz Marker 1 [T1]: 5.697800000 GHz 5.62 dBm Center: 5.7 GHz Span: 50 MHz Date: 17.APR.2023 14:24:50

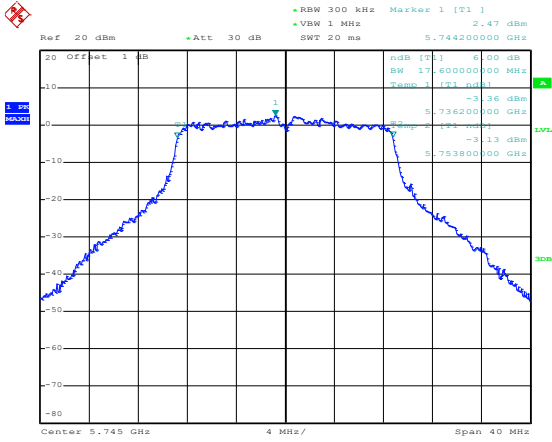
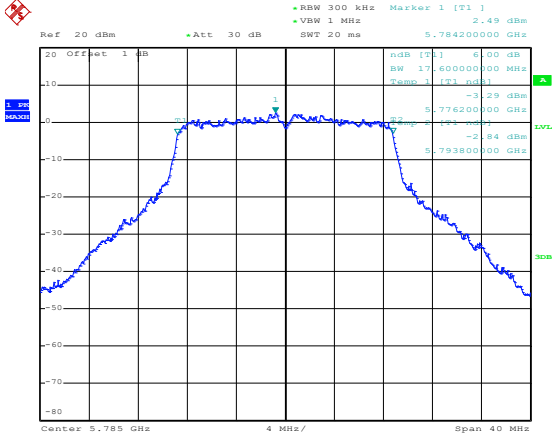
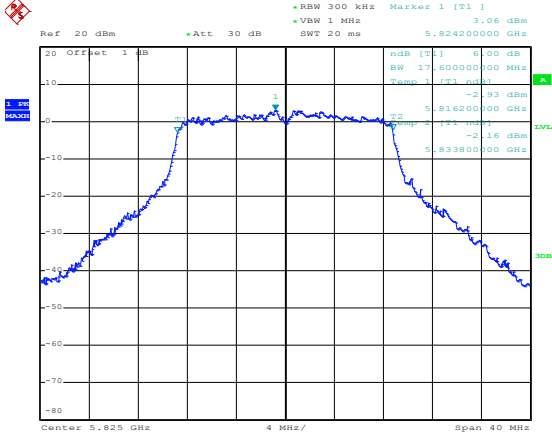
802.11n-HT20-Low	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 2.74 dBm VBW 1 MHz SWT 20 ms 5.499300000 GHz Offset 1 dB dBm [T1] 26.00 dBm BW 23.600000000 MHz Temp 1 [T1] dBm -23.02 dBm 5.488300000 GHz -23.29 dBm 5.511900000 GHz Center 5.5 GHz 5 MHz/ Span 50 MHz Date: 17.APR.2023 14:26:31
802.11n-HT20-Middle	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 4.18 dBm VBW 1 MHz SWT 20 ms 5.599200000 GHz Offset 1 dB dBm [T1] 26.00 dBm BW 23.600000000 MHz Temp 1 [T1] dBm -22.01 dBm 5.588200000 GHz -21.90 dBm 5.612000000 GHz Center 5.6 GHz 5 MHz/ Span 50 MHz Date: 17.APR.2023 14:26:54
802.11n-HT20-High	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 1.98 dBm VBW 1 MHz SWT 20 ms 5.699300000 GHz Offset 1 dB dBm [T1] 26.00 dBm BW 23.600000000 MHz Temp 1 [T1] dBm -23.88 dBm 5.688100000 GHz -24.13 dBm 5.711600000 GHz Center 5.7 GHz 5 MHz/ Span 50 MHz Date: 17.APR.2023 14:27:25

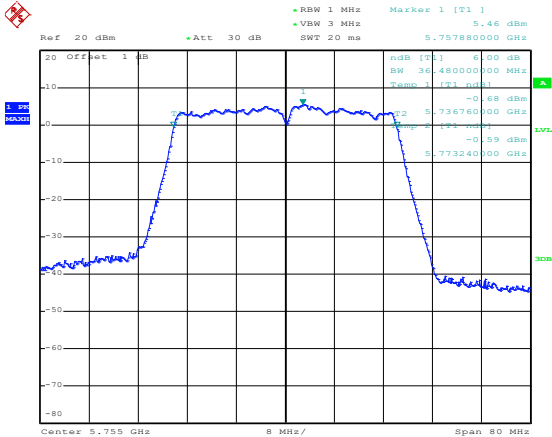
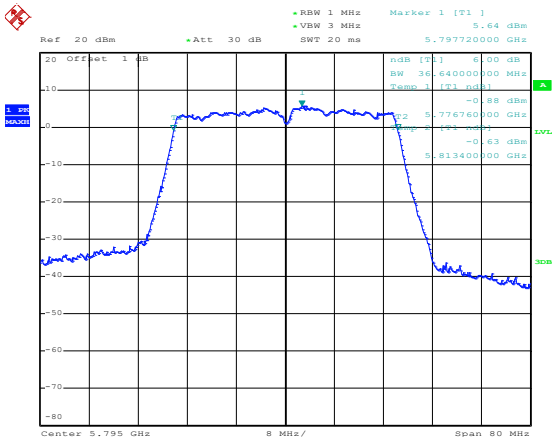
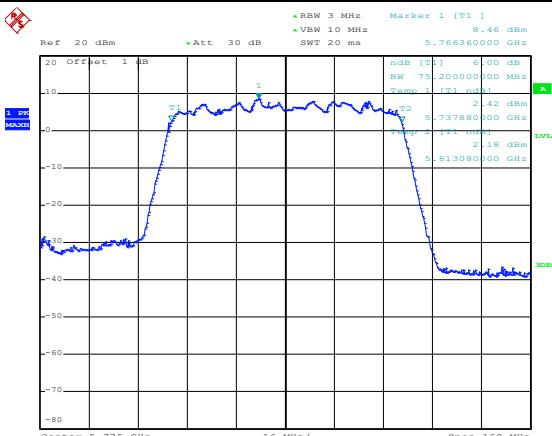
802.11n-HT40-Low	 Ref 20 dBm •Att 30 dB RBW 1 MHz Marker 1 [T1] 5.55 dBm •VBW 3 MHz SWT 20 ms 5.513000000 GHz 20 Offset 1 dB nB [T1] 26.00 dB BW 42.200000000 MHz Temp 1 [T1] nB [T1] -20.55 dBm 5.489000000 GHz -19.87 dBm 5.532000000 GHz Center 5.51 GHz 10 MHz/ Span 100 MHz Date: 17.APR.2023 14:28:07
802.11n-HT40- Middle	 Ref 20 dBm •Att 30 dB RBW 1 MHz Marker 1 [T1] 7.42 dBm •VBW 3 MHz SWT 20 ms 5.592800000 GHz 20 Offset 1 dB nB [T1] 26.00 dB BW 42.200000000 MHz Temp 1 [T1] nB [T1] -18.65 dBm 5.569000000 GHz -18.29 dBm 5.611200000 GHz Center 5.59 GHz 10 MHz/ Span 100 MHz Date: 17.APR.2023 14:28:27
802.11n-HT40-High	 Ref 20 dBm •Att 30 dB RBW 1 MHz Marker 1 [T1] 5.45 dBm •VBW 3 MHz SWT 20 ms 5.672800000 GHz 20 Offset 1 dB nB [T1] 26.00 dB BW 42.200000000 MHz Temp 1 [T1] nB [T1] -20.66 dBm 5.649000000 GHz -20.67 dBm 5.691200000 GHz Center 5.67 GHz 10 MHz/ Span 100 MHz Date: 17.APR.2023 14:28:43

[illegible]

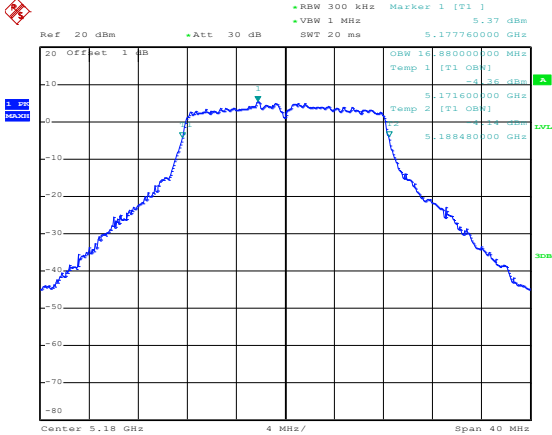
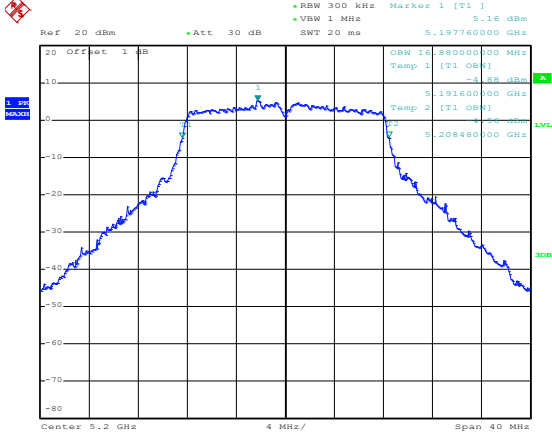
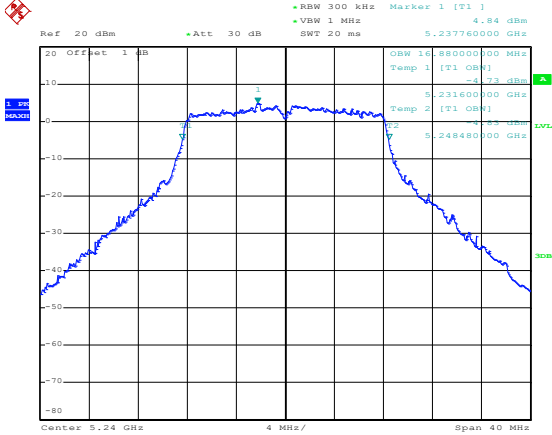
5725-5850MHz

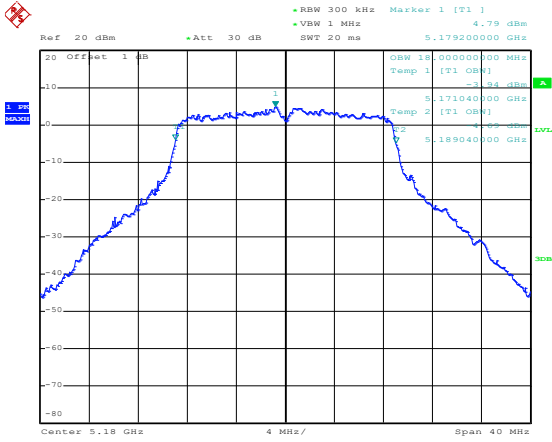
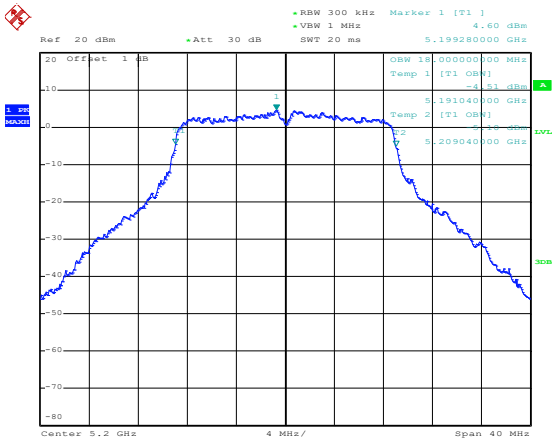
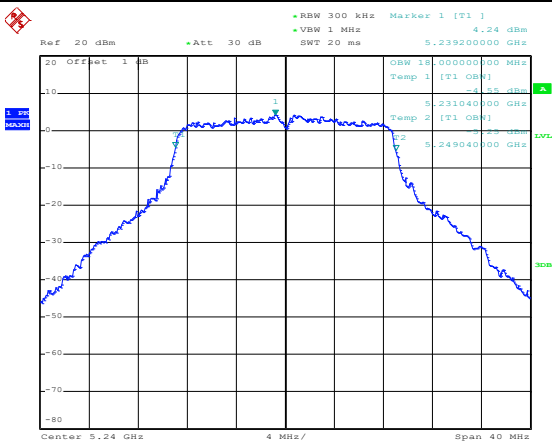
802.11a-Low	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 3.12 dBm +VBW 1 MHz SWT 20 ms 5.742760000 GHz 20 Offset 1 dB n dB [T1] 6.00 dB BW 16.480000000 MHz Temp 1 [T1] dBm -3.07 dBm 5.736760000 GHz -2.93 dBm 5.753240000 GHz Center 5.745 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 15:15:24
802.11a-Middle	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 3.18 dBm +VBW 1 MHz SWT 20 ms 5.782760000 GHz 20 Offset 1 dB n dB [T1] 6.00 dB BW 16.480000000 MHz Temp 1 [T1] dBm -3.38 dBm 5.776760000 GHz -2.55 dBm 5.793240000 GHz Center 5.785 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 15:17:29
802.11a-High	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 3.83 dBm +VBW 1 MHz SWT 20 ms 5.822760000 GHz 20 Offset 1 dB n dB [T1] 6.00 dB BW 16.400000000 MHz Temp 1 [T1] dBm -2.08 dBm 5.816840000 GHz -2.16 dBm 5.833240000 GHz Center 5.825 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 15:18:12

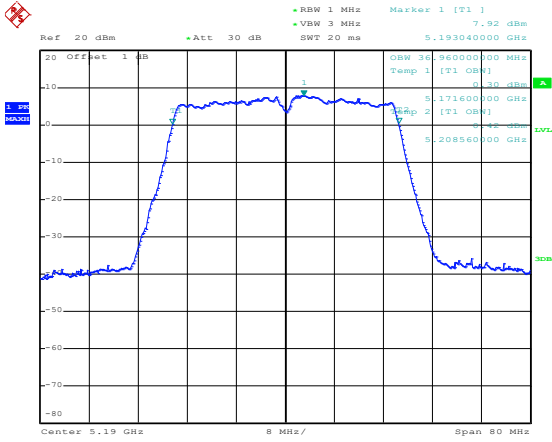
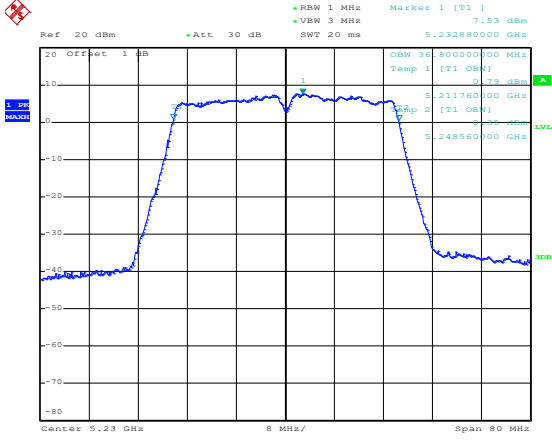
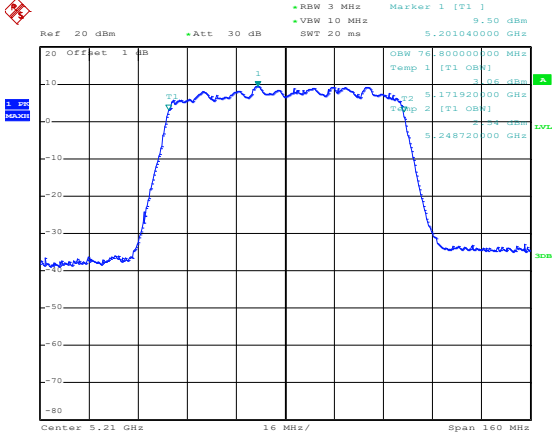
802.11n-HT20-Low	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 2.47 dBm VBW 1 MHz SWT 20 ms 5.744200000 GHz Offset 1 dB dB [T1] 6.00 dB BW 17.600000000 MHz Temp 1 [T1] dBm -3.36 dBm 5.736200000 GHz -3.13 dBm 5.753800000 GHz Center 5.745 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 15:18:33
802.11n-HT20-Middle	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 2.49 dBm VBW 1 MHz SWT 20 ms 5.784200000 GHz Offset 1 dB dB [T1] 6.00 dB BW 17.600000000 MHz Temp 1 [T1] dBm -3.29 dBm 5.776200000 GHz -2.84 dBm 5.793800000 GHz Center 5.785 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 15:18:45
802.11n-HT20-High	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] 3.06 dBm VBW 1 MHz SWT 20 ms 5.824200000 GHz Offset 1 dB dB [T1] 6.00 dB BW 17.600000000 MHz Temp 1 [T1] dBm -2.93 dBm 5.816200000 GHz -2.16 dBm 5.833800000 GHz Center 5.825 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 15:18:59

802.11n-HT40-Low	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] 5.46 dBm VBW 3 MHz SWT 20 ms 5.757880000 GHz Offset 1 dB dBm [T1] 0.00 dBm SW 36.480000000 MHz Temp 1 [T1] 0.00 dBm dBm [T2] -0.68 dBm SW 36.480000000 MHz Temp 1 [T2] 0.00 dBm dBm [T3] -0.59 dBm SW 36.480000000 MHz Temp 1 [T3] 0.00 dBm Center 5.755 GHz 8 MHz/ Span 80 MHz Date: 17.APR.2023 15:19:25
802.11n-HT40-High	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] 5.64 dBm VBW 3 MHz SWT 20 ms 5.797200000 GHz Offset 1 dB dBm [T1] 0.00 dBm SW 36.640000000 MHz Temp 1 [T1] 0.00 dBm dBm [T2] -0.88 dBm SW 36.640000000 MHz Temp 1 [T2] 0.00 dBm dBm [T3] -0.63 dBm SW 36.640000000 MHz Temp 1 [T3] 0.00 dBm Center 5.795 GHz 8 MHz/ Span 80 MHz Date: 17.APR.2023 15:19:38
802.11ac-VHT80	 Ref 20 dBm +Att 30 dB RBW 3 MHz Marker 1 [T1] 8.46 dBm VBW 10 MHz SWT 20 ms 5.766360000 GHz Offset 1 dB dBm [T1] 0.00 dBm SW 75.200000000 MHz Temp 1 [T1] 0.00 dBm dBm [T2] 2.42 dBm SW 75.200000000 MHz Temp 1 [T2] 0.00 dBm dBm [T3] 2.18 dBm SW 75.200000000 MHz Temp 1 [T3] 0.00 dBm Center 5.775 GHz 16 MHz/ Span 160 MHz Date: 17.APR.2023 15:20:03

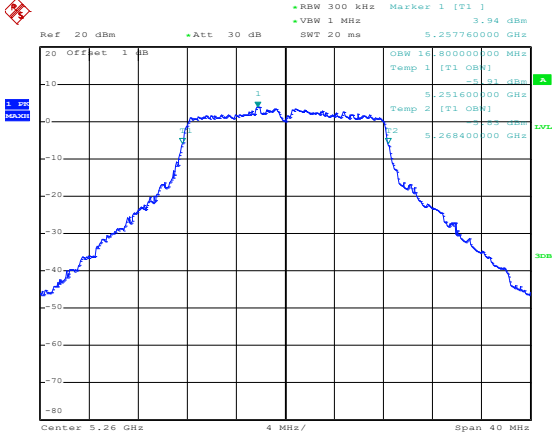
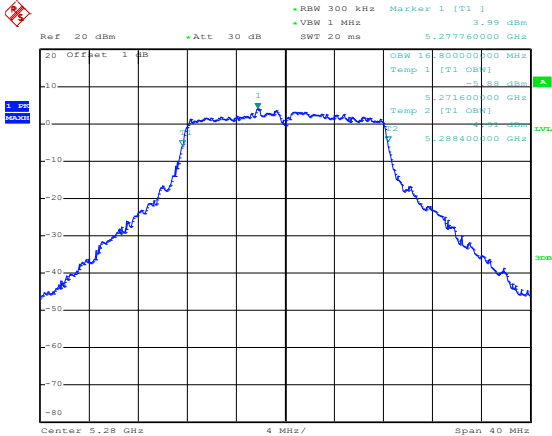
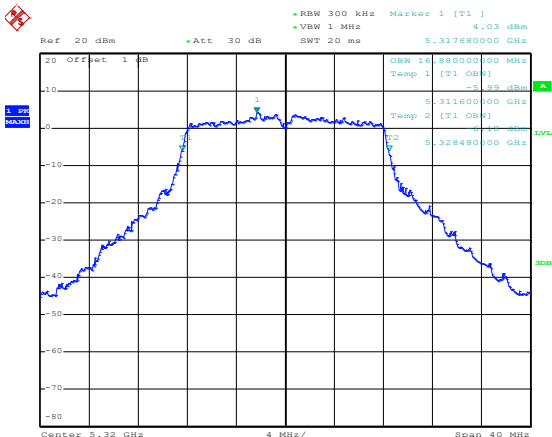
ANT 2
99% Bandwidth MHz
5150-5250MHz

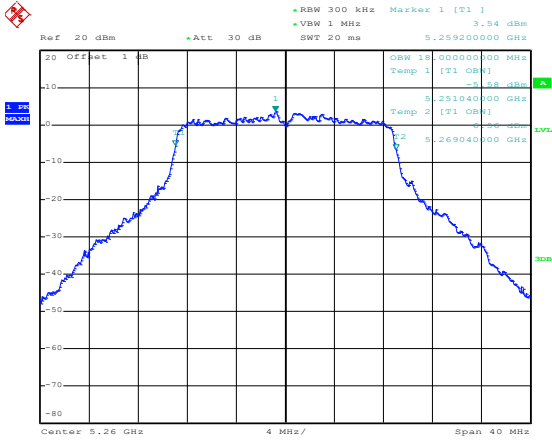
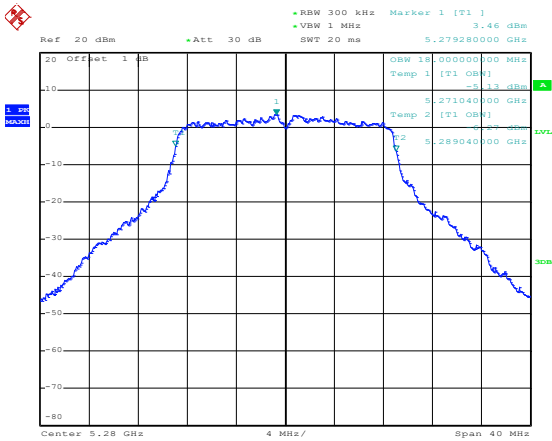
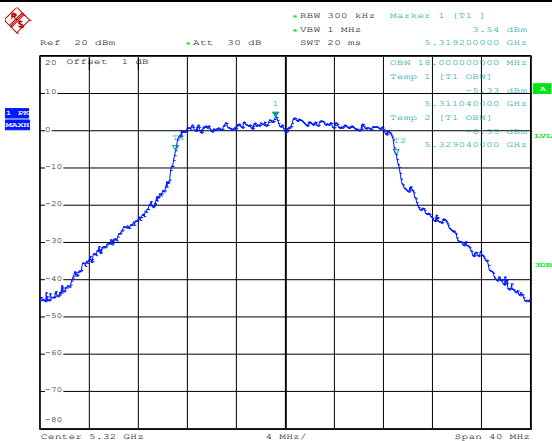
802.11a-Low	 Ref: 20 dBm, Att: 30 dB, SWT: 20 ms, RBW: 300 kHz, VBW: 1 MHz, Marker 1 [T1]: 5.37 dBm, 5.177760000 GHz OSW: 16.880000000 MHz, Temp 1 [T1 OSW]: -4.36 dBm, 5.171600000 GHz, Temp 2 [T1 OSW]: -4.44 dBm, 5.188480000 GHz Center: 5.18 GHz, 4 MHz/, Span: 40 MHz Date: 17.APR.2023 10:40:34
802.11a-Middle	 Ref: 20 dBm, Att: 30 dB, SWT: 20 ms, RBW: 300 kHz, VBW: 1 MHz, Marker 1 [T1]: 5.16 dBm, 5.197760000 GHz OSW: 16.880000000 MHz, Temp 1 [T1 OSW]: -4.88 dBm, 5.191600000 GHz, Temp 2 [T1 OSW]: -4.96 dBm, 5.208480000 GHz Center: 5.2 GHz, 4 MHz/, Span: 40 MHz Date: 17.APR.2023 10:41:34
802.11a-High	 Ref: 20 dBm, Att: 30 dB, SWT: 20 ms, RBW: 300 kHz, VBW: 1 MHz, Marker 1 [T1]: 4.84 dBm, 5.237760000 GHz OSW: 16.880000000 MHz, Temp 1 [T1 OSW]: -5.22 dBm, 5.231600000 GHz, Temp 2 [T1 OSW]: -5.43 dBm, 5.248480000 GHz Center: 5.24 GHz, 4 MHz/, Span: 40 MHz Date: 17.APR.2023 10:43:02

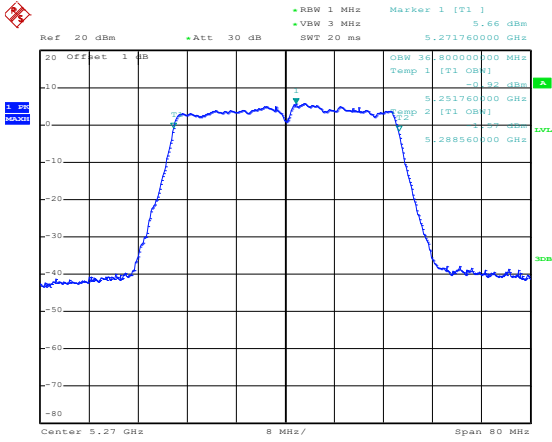
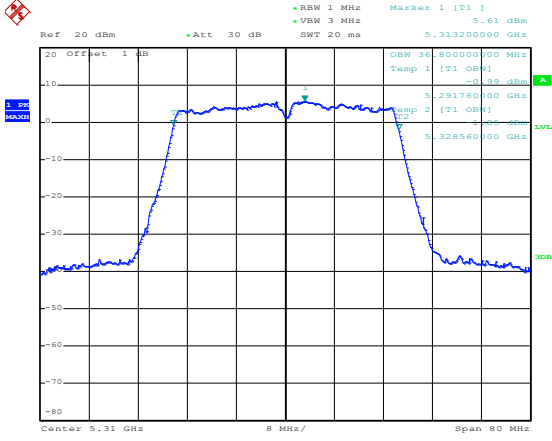
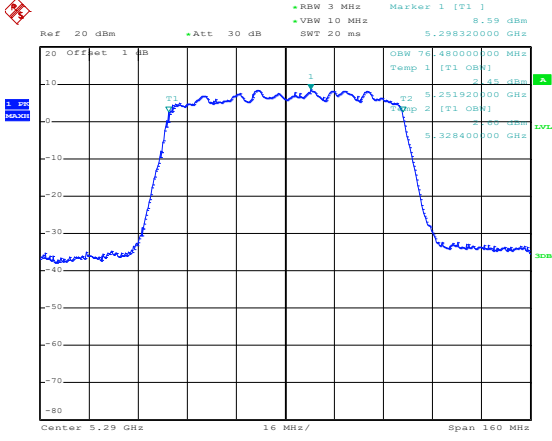
802.11n-HT20-Low	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] VSW 1 MHz 4.79 dBm SWT 20 ms 5.179200000 GHz OSW 18.000000000 MHz Temp 1 [T1 OSW] -3.84 dBm 5.171040000 GHz Temp 2 [T1 OSW] -3.84 dBm 5.189040000 GHz Center 5.18 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 10:44:13
802.11n-HT20-Middle	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] VSW 1 MHz 4.60 dBm SWT 20 ms 5.199280000 GHz OSW 18.000000000 MHz Temp 1 [T1 OSW] -4.51 dBm 5.191040000 GHz Temp 2 [T1 OSW] -4.51 dBm 5.209040000 GHz Center 5.2 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 10:44:43
802.11n-HT20-High	 Ref 20 dBm +Att 30 dB RBW 300 kHz Marker 1 [T1] VSW 1 MHz 4.24 dBm SWT 20 ms 5.239200000 GHz OSW 18.000000000 MHz Temp 1 [T1 OSW] -4.55 dBm 5.231040000 GHz Temp 2 [T1 OSW] -4.55 dBm 5.249040000 GHz Center 5.24 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 10:45:35

802.11n-HT40-Low	 Date: 17.APR.2023 10:46:22
802.11n-HT40-High	 Date: 17.APR.2023 10:49:33
802.11ac-VHT80	 Date: 17.APR.2023 10:51:00

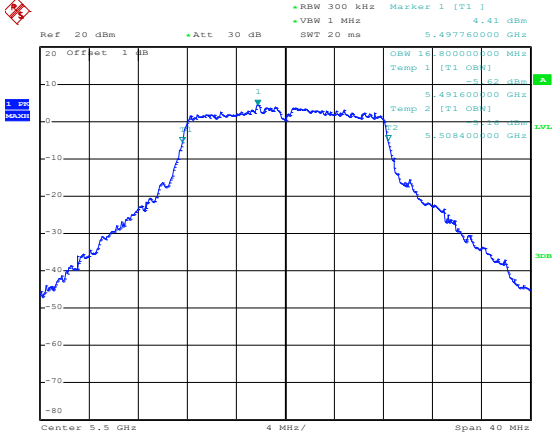
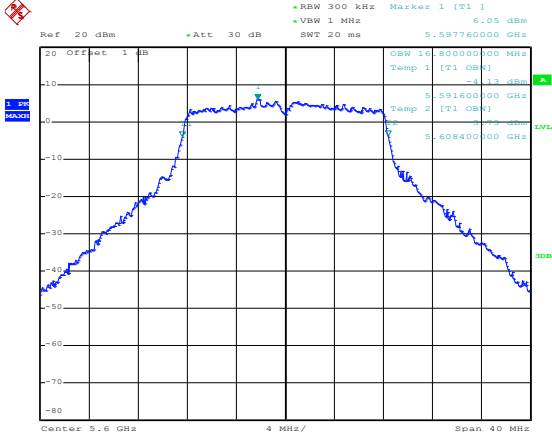
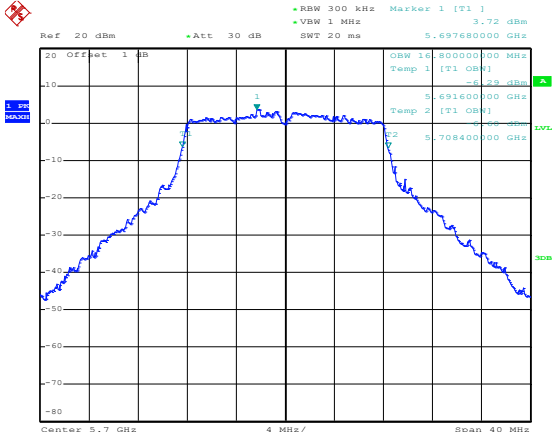
5250-5350MHz

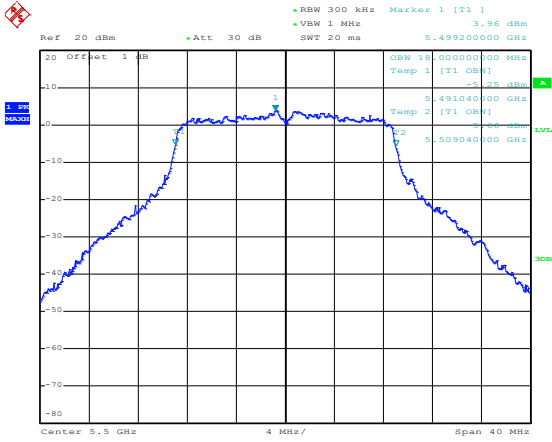
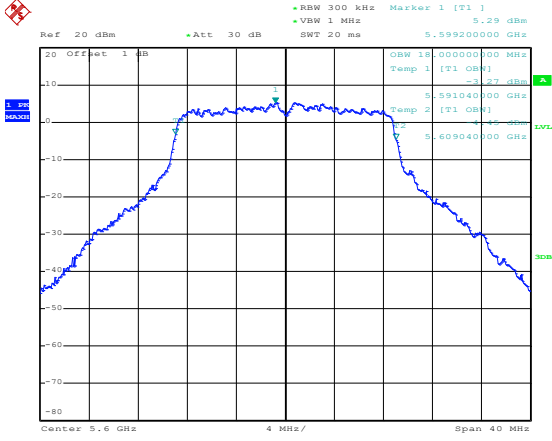
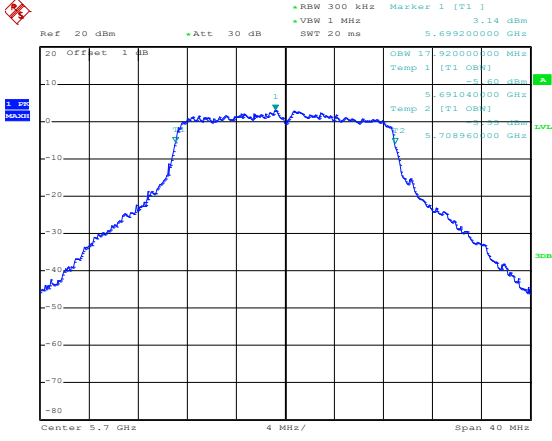
802.11a-Low	 Date: 17.APR.2023 11:57:15
802.11a-Middle	 Date: 17.APR.2023 11:57:43
802.11a-High	 Date: 17.APR.2023 11:58:23

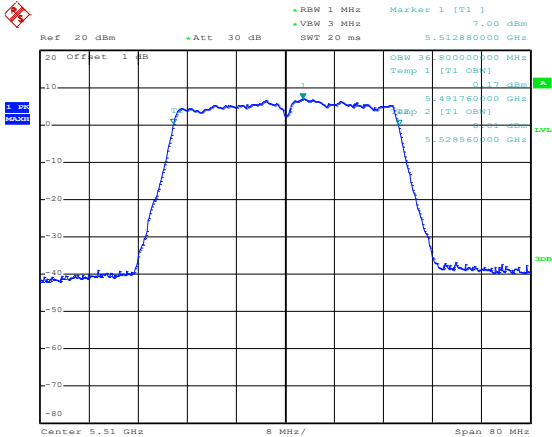
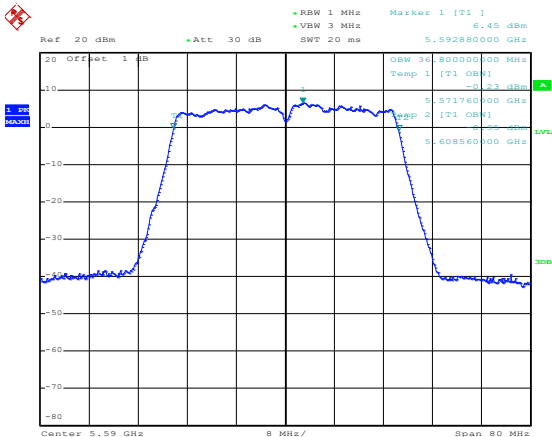
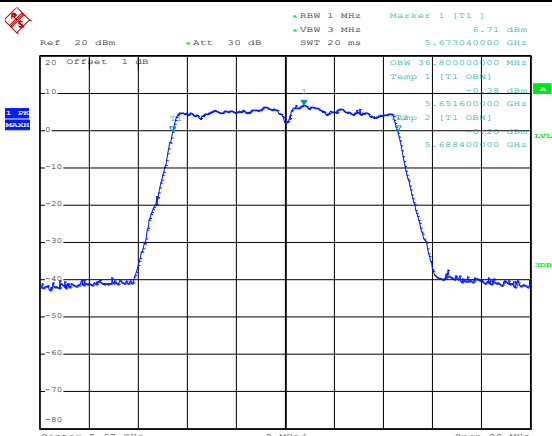
802.11n-HT20-Low	 Date: 17.APR.2023 11:58:54
802.11n-HT20-Middle	 Date: 17.APR.2023 11:59:28
802.11n-HT20-High	 Date: 17.APR.2023 11:59:50

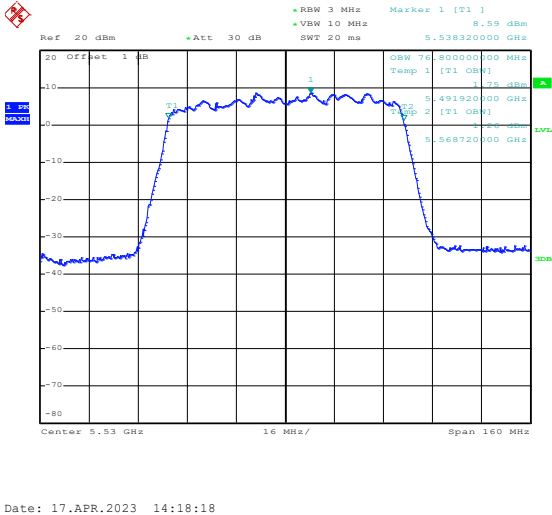
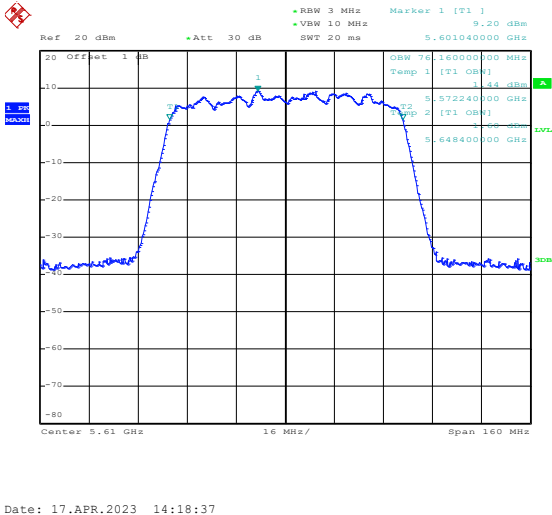
802.11n-HT40-Low	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] 5.66 dBm VSW 3 MHz 5.271760000 GHz SWT 20 ms OSW 30.800000000 MHz Temp 1 [T1 OSW] -0.82 dBm 5.251760000 GHz Temp 2 [T1 OSW] -1.59 dBm 5.288560000 GHz Center 5.27 GHz 8 MHz/ Span 80 MHz Date: 17.APR.2023 12:01:00
802.11n-HT40-High	 Ref 20 dBm +Att 30 dB RBW 1 MHz Marker 1 [T1] 5.61 dBm VSW 3 MHz 5.313200000 GHz SWT 20 ms OSW 30.800000000 MHz Temp 1 [T1 OSW] -0.89 dBm 5.291760000 GHz Temp 2 [T1 OSW] -1.66 dBm 5.328560000 GHz Center 5.31 GHz 8 MHz/ Span 80 MHz Date: 17.APR.2023 12:02:04
802.11ac-VHT80	 Ref 20 dBm +Att 30 dB RBW 3 MHz Marker 1 [T1] 8.59 dBm VSW 10 MHz 5.298320000 GHz SWT 20 ms OSW 76.480000000 MHz Temp 1 [T1 OSW] -2.45 dBm 5.251920000 GHz Temp 2 [T1 OSW] -1.60 dBm 5.328400000 GHz Center 5.29 GHz 16 MHz/ Span 160 MHz Date: 17.APR.2023 12:03:06

5470-5725MHz

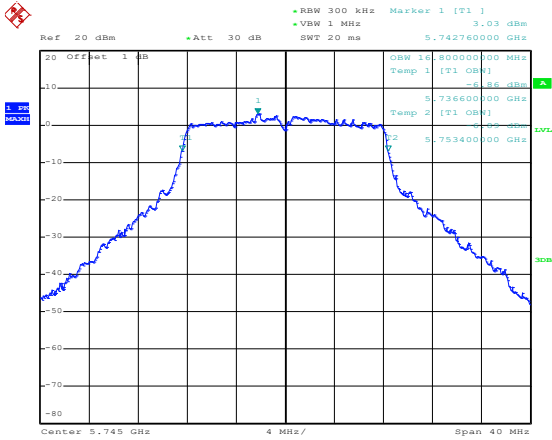
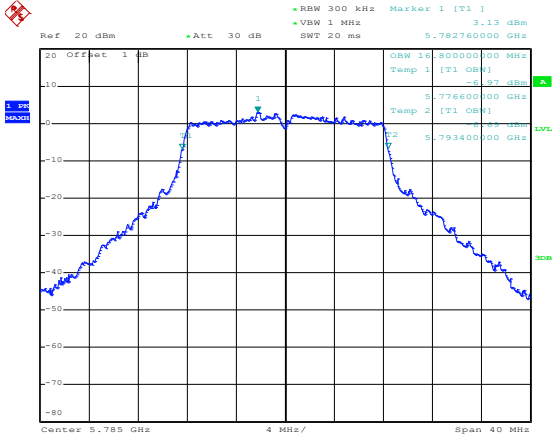
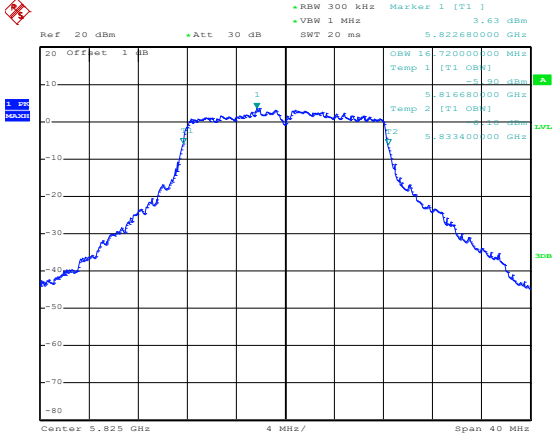
802.11a-Low	 Ref: 20 dBm Att: 30 dB RBW: 300 kHz Marker 1 [T1]: 4.41 dBm VBW: 1 MHz SWT: 20 ms 5.497760000 GHz OSW: 16.800000000 MHz Temp 1 [T1]: 4.41 dBm Temp 2 [T1]: 4.41 dBm 5.491600000 GHz 5.508400000 GHz Center: 5.5 GHz 4 MHz/ Span: 40 MHz Date: 17.APR.2023 14:12:22
802.11a-Middle	 Ref: 20 dBm Att: 30 dB RBW: 300 kHz Marker 1 [T1]: 6.05 dBm VBW: 1 MHz SWT: 20 ms 5.597760000 GHz OSW: 16.800000000 MHz Temp 1 [T1]: 6.05 dBm Temp 2 [T1]: 6.05 dBm 5.591600000 GHz 5.608400000 GHz Center: 5.6 GHz 4 MHz/ Span: 40 MHz Date: 17.APR.2023 14:12:48
802.11a-High	 Ref: 20 dBm Att: 30 dB RBW: 300 kHz Marker 1 [T1]: 3.72 dBm VBW: 1 MHz SWT: 20 ms 5.697680000 GHz OSW: 16.800000000 MHz Temp 1 [T1]: 3.72 dBm Temp 2 [T1]: 3.72 dBm 5.691600000 GHz 5.708400000 GHz Center: 5.7 GHz 4 MHz/ Span: 40 MHz Date: 17.APR.2023 14:13:07

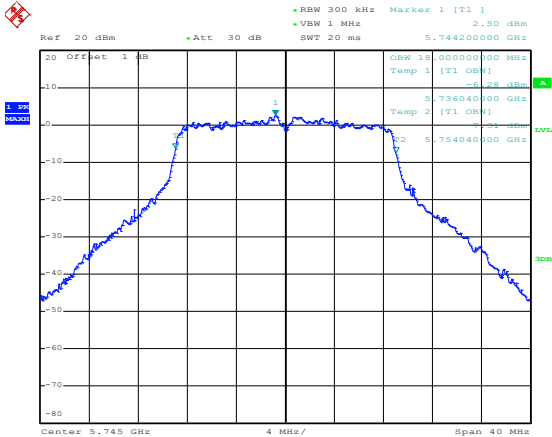
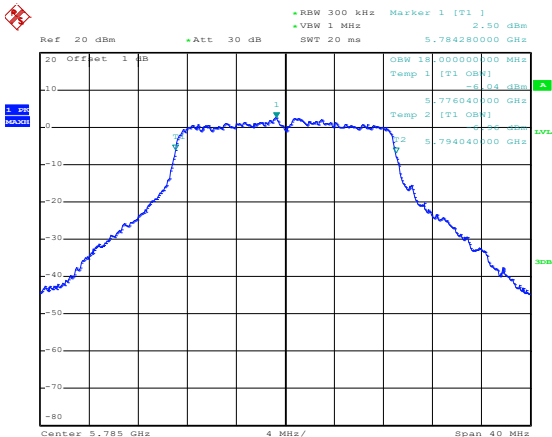
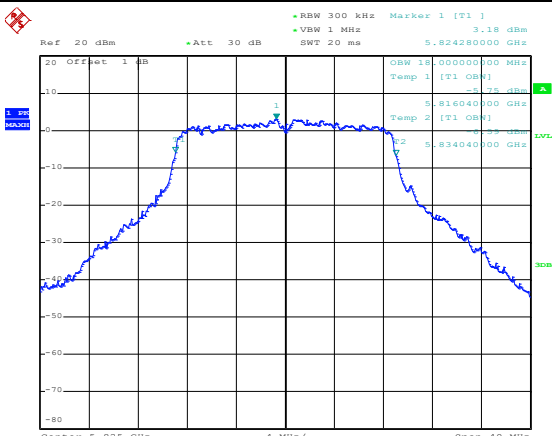
802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 3.96 dBm •VBW 1 MHz SWT 20 ms 5.499200000 GHz OSW 18.00000000 MHz Temp 1 [T1 OSW] -5.25 dBm 5.491040000 GHz Temp 2 [T1 OSW] -5.68 dBm 5.509040000 GHz Center 5.5 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 14:13:39
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 5.29 dBm •VBW 1 MHz SWT 20 ms 5.599200000 GHz OSW 18.00000000 MHz Temp 1 [T1 OSW] -3.67 dBm 5.591040000 GHz Temp 2 [T1 OSW] -4.48 dBm 5.609040000 GHz Center 5.6 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 14:13:58
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB •RBW 300 kHz Marker 1 [T1] 3.14 dBm •VBW 1 MHz SWT 20 ms 5.699200000 GHz OSW 17.92000000 MHz Temp 1 [T1 OSW] -5.69 dBm 5.691040000 GHz Temp 2 [T1 OSW] -5.88 dBm 5.708960000 GHz Center 5.7 GHz 4 MHz/ Span 40 MHz Date: 17.APR.2023 14:14:25

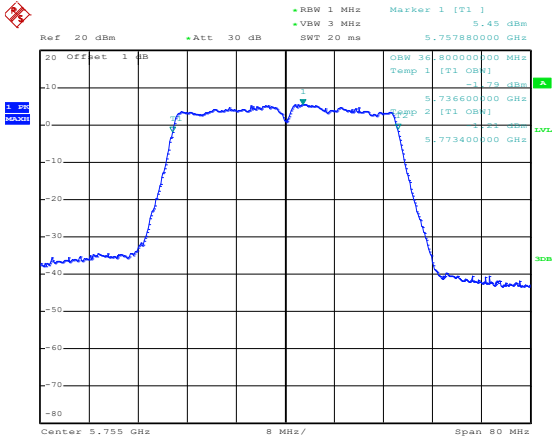
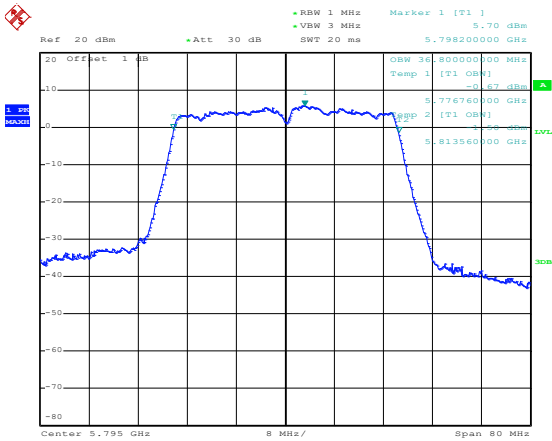
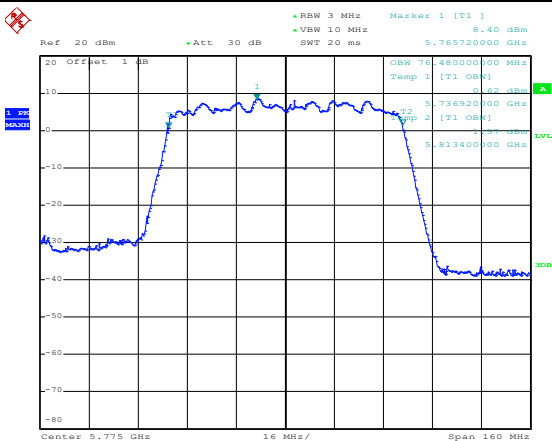
802.11n-HT40-Low	 Date: 17.APR.2023 14:15:34
802.11n-HT40- Middle	 Date: 17.APR.2023 14:19:52
802.11n-HT40-High	 Date: 17.APR.2023 14:16:12

802.11ac-VHT80-Low	 Date: 17.APR.2023 14:18:18
802.11ac-VHT80-High	 Date: 17.APR.2023 14:18:37

5725-5850MHz

802.11a-Low	 Date: 17.APR.2023 15:09:10
802.11a-Middle	 Date: 17.APR.2023 15:09:24
802.11a-High	 Date: 17.APR.2023 15:09:38

802.11n-HT20-Low	 Date: 17.APR.2023 15:10:01
802.11n-HT20-Middle	 Date: 17.APR.2023 15:10:34
802.11n-HT20-High	 Date: 17.APR.2023 15:11:07

802.11n-HT40-Low	 Ref 20 dBm +Att 30 dB SWT 20 ms Marker 1 [T1] 5.45 dBm OSW 30.80000000 MHz Temp 1 [T1 OSW] -1.73 dBm 5.73600000 GHz Temp 2 [T1 OSW] -1.62 dBm 5.77340000 GHz Center 5.755 GHz 8 MHz/ Span 80 MHz Date: 17.APR.2023 15:12:25
802.11n-HT40-High	 Ref 20 dBm +Att 30 dB SWT 20 ms Marker 1 [T1] 5.70 dBm OSW 30.80000000 MHz Temp 1 [T1 OSW] -0.67 dBm 5.77676000 GHz Temp 2 [T1 OSW] -1.68 dBm 5.81356000 GHz Center 5.795 GHz 8 MHz/ Span 80 MHz Date: 17.APR.2023 15:12:41
802.11ac-VHT80	 Ref 20 dBm +Att 30 dB SWT 20 ms Marker 1 [T1] 8.40 dBm OSW 76.48000000 MHz Temp 1 [T1 OSW] -0.67 dBm 5.73692000 GHz Temp 2 [T1 OSW] -1.67 dBm 5.81340000 GHz Center 5.775 GHz 16 MHz/ Span 160 MHz Date: 17.APR.2023 15:13:07

APPENDIX C

Maximum Conducted Output Power

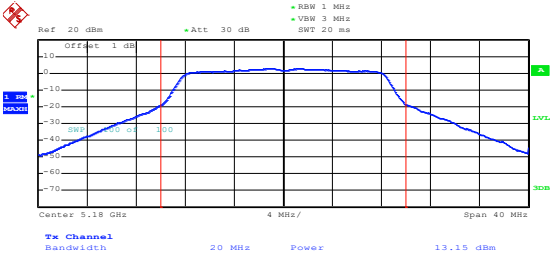
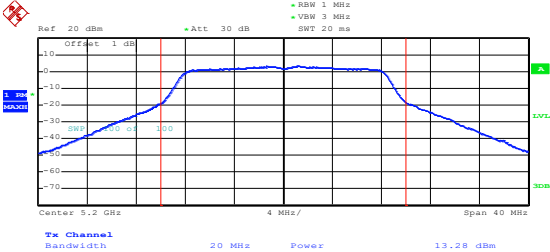
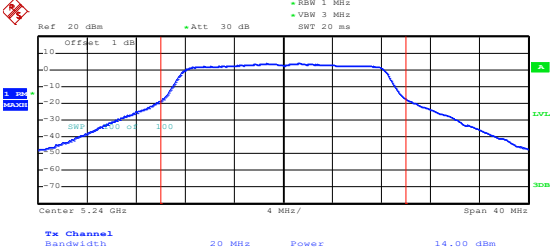
U-NII-1:5150-5250MHz					
Test mode	Frequency MHz	Output Power dBm		Total dBm	Limit dBm
		ANT 1	ANT 2		
802.11a	5180	13.15	13.80	/	23.98
	5200	13.28	13.49	/	23.98
	5240	14.00	13.12	/	23.98
802.11n-HT20	5180	13.01	13.64	16.35	23.98
	5200	13.24	13.51	16.39	23.98
	5240	13.08	13.21	16.16	23.98
802.11n-HT40	5190	12.37	12.94	15.67	23.98
	5230	12.99	12.58	15.80	23.98
802.11ac VHT80	5210	11.64	11.60	14.63	23.98

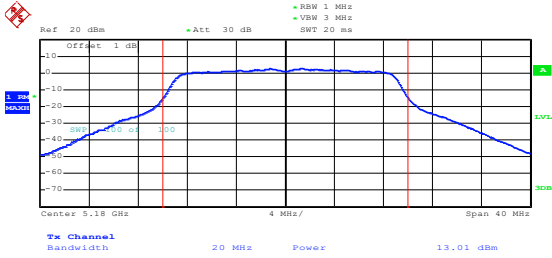
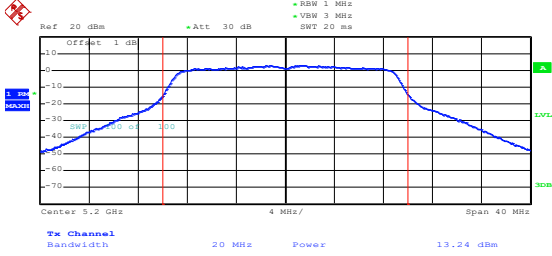
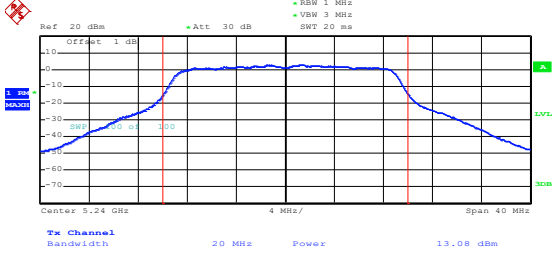
U-NII-2A: 5250-5350MHz					
Test mode	Frequency MHz	Output Power dBm		Total dBm	Limit dBm
		ANT 1	ANT 2		
802.11a	5260	12.03	11.29	/	23.98
	5280	12.26	11.32	/	23.98
	5320	11.40	11.49	/	23.98
802.11n-HT20	5260	12.37	11.48	14.96	23.98
	5280	12.38	11.51	14.98	23.98
	5320	11.49	11.61	14.56	23.98
802.11n-HT40	5270	11.64	11.22	14.45	23.98
	5310	11.33	11.47	14.41	23.98
802.11ac-VHT80	5290	11.33	11.26	14.31	23.98

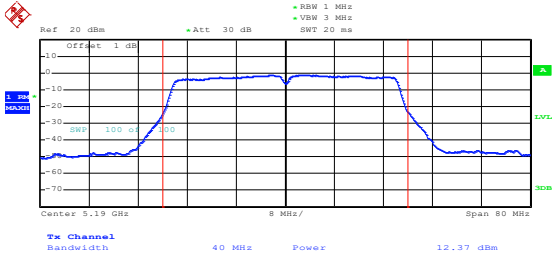
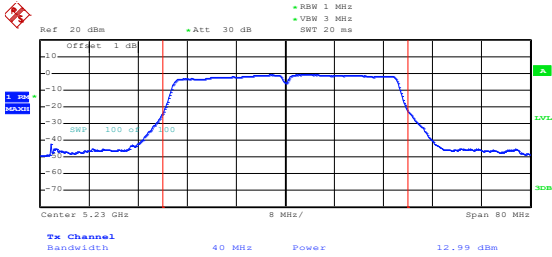
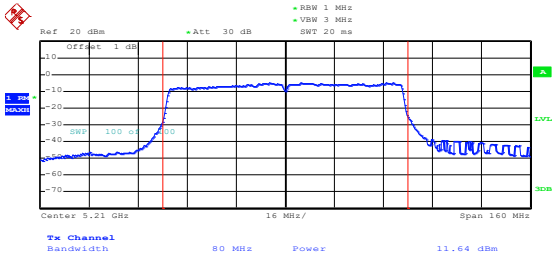
U-NII-2C: 5470-5725MHz					
Test mode	Frequency MHz	Output Power dBm		Total dBm	Limit dBm
		ANT 1	ANT 2		
802.11a	5500	11.00	11.92	/	23.98
	5580	11.71	12.61	/	23.98
	5700	10.61	12.07	/	23.98
802.11n-HT20	5500	11.11	11.83	14.50	23.98
	5580	10.81	12.46	14.72	23.98
	5700	10.77	12.16	14.53	23.98
802.11n-HT40	5510	10.22	10.98	13.63	23.98
	5550	10.76	11.58	14.20	23.98
	5670	11.26	10.84	14.07	23.98
802.11ac-VHT80	5530	10.12	10.59	13.37	23.98
	5610	11.14	11.40	14.28	23.98

U-NII-3: 5725-5850MHz					
Test mode	Frequency MHz	Output Power dBm		Total dBm	Limit dBm
		ANT 1	ANT 2		
802.11a	5745	10.30	11.53	/	5745
	5785	10.32	11.42	/	5785
	5825	10.09	11.47	/	5825
802.11n-HT20	5745	10.30	10.46	13.39	5745
	5785	10.49	10.56	13.54	5785
	5825	10.15	11.09	13.66	5825
802.11n-HT40	5755	10.34	10.46	13.41	5755
	5795	10.41	10.86	13.65	5795
802.11ac-VHT80	5775	10.97	10.64	13.82	5775

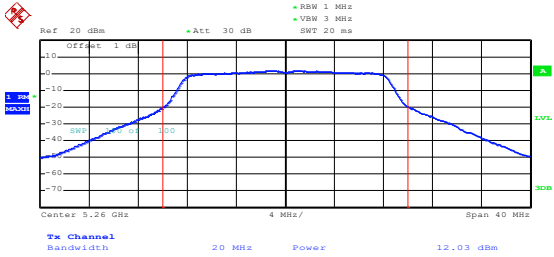
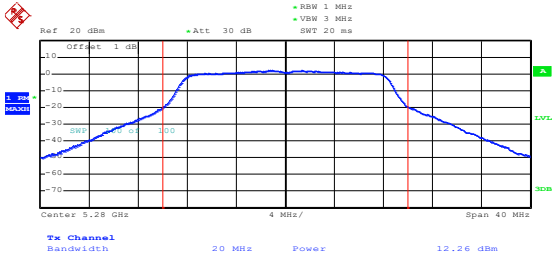
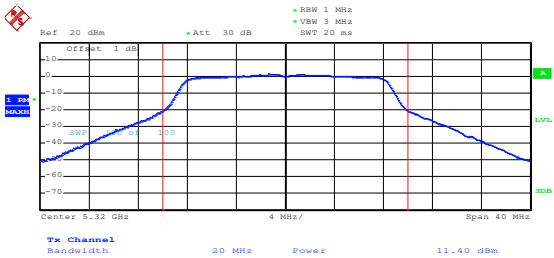
ANT 1
5150-5250MHz

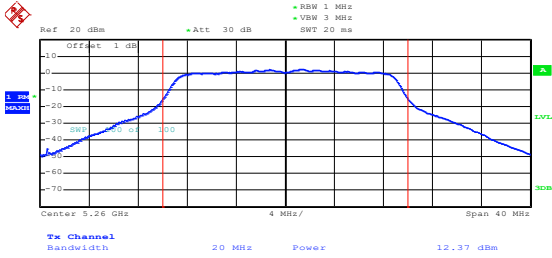
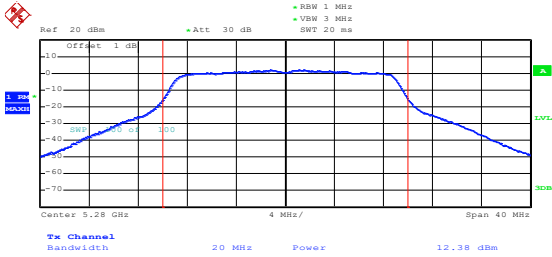
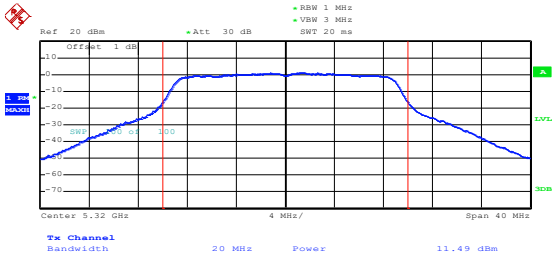
802.11a-Low	 Date: 14.APR.2023 14:06:37
802.11a-Middle	 Date: 14.APR.2023 14:07:46
802.11a-High	 Date: 14.APR.2023 14:08:16

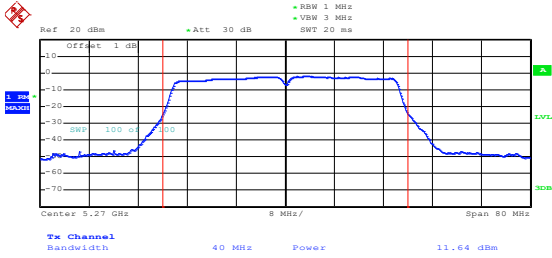
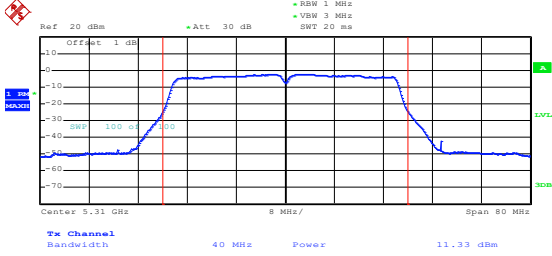
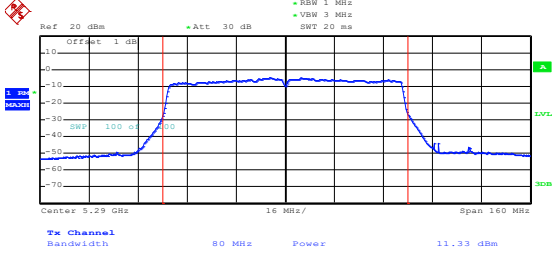
802.11n-HT20-Low	 Date: 14.APR.2023 14:08:57
802.11n-HT20-Middle	 Date: 14.APR.2023 14:09:16
802.11n-HT20-High	 Date: 14.APR.2023 14:10:01

802.11n-HT40-Low	 Ref: 20 dBm • Att: 30 dB • RBW: 1 MHz • VBW: 3 MHz • SWT: 20 ms Offset: 1 dB Center: 5.19 GHz 8 MHz/ Span: 80 MHz Tx Channel Bandwidth: 40 MHz Power: 12.37 dBm Date: 14.APR.2023 14:11:25
802.11n-HT40-High	 Ref: 20 dBm • Att: 30 dB • RBW: 1 MHz • VBW: 3 MHz • SWT: 20 ms Offset: 1 dB Center: 5.23 GHz 8 MHz/ Span: 80 MHz Tx Channel Bandwidth: 40 MHz Power: 12.99 dBm Date: 14.APR.2023 14:11:52
802.11ac-VHT80	 Ref: 20 dBm • Att: 30 dB • RBW: 1 MHz • VBW: 3 MHz • SWT: 20 ms Offset: 1 dB Center: 5.21 GHz 16 MHz/ Span: 160 MHz Tx Channel Bandwidth: 80 MHz Power: 11.64 dBm Date: 14.APR.2023 14:13:06

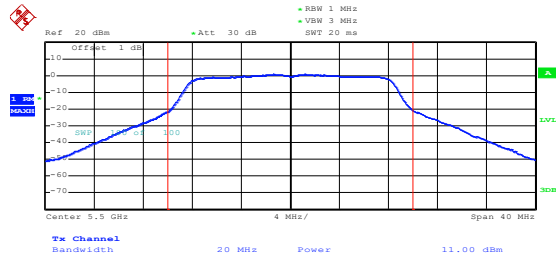
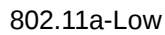
5250-5350MHz

802.11a-Low	 Date: 14.APR.2023 15:02:02
802.11a-Middle	 Date: 14.APR.2023 15:01:39
802.11a-High	 Date: 14.APR.2023 15:02:21

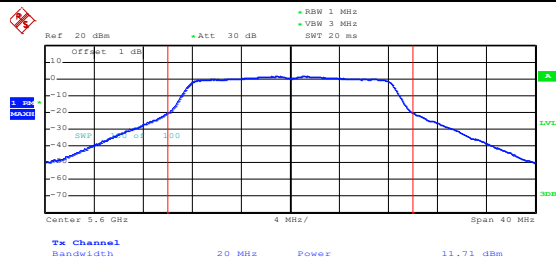
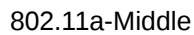
802.11n-HT20-Low	 Date: 14.APR.2023 15:06:21
802.11n-HT20-Middle	 Date: 14.APR.2023 15:06:40
802.11n-HT20-High	 Date: 14.APR.2023 15:06:55

802.11n-HT40-Low	 Ref: 20 dBm • Att: 30 dB • RBW: 1 MHz • VBW: 3 MHz • SWT: 20 ms Offset: 1 dB Center: 5.27 GHz 8 MHz/ Span: 80 MHz Tx Channel Bandwidth: 40 MHz Power: 11.64 dBm Date: 14.APR.2023 15:07:36
802.11n-HT40-High	 Ref: 20 dBm • Att: 30 dB • RBW: 1 MHz • VBW: 3 MHz • SWT: 20 ms Offset: 1 dB Center: 5.31 GHz 8 MHz/ Span: 80 MHz Tx Channel Bandwidth: 40 MHz Power: 11.33 dBm Date: 14.APR.2023 15:09:23
802.11ac-VHT80	 Ref: 20 dBm • Att: 30 dB • RBW: 1 MHz • VBW: 3 MHz • SWT: 20 ms Offset: 1 dB Center: 5.29 GHz 16 MHz/ Span: 160 MHz Tx Channel Bandwidth: 80 MHz Power: 11.33 dBm Date: 14.APR.2023 15:10:16

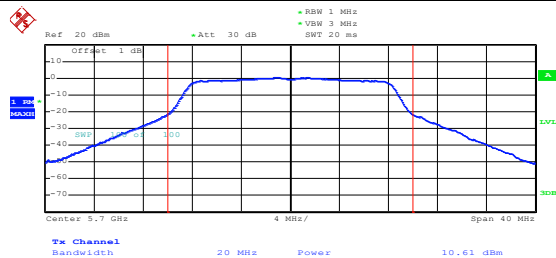
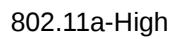
5470-5725MHz



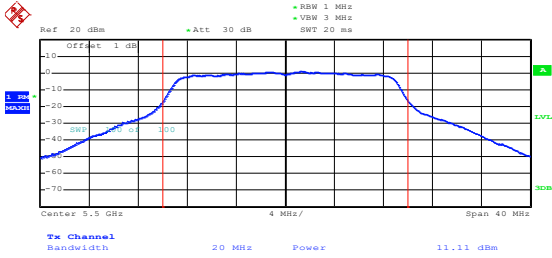
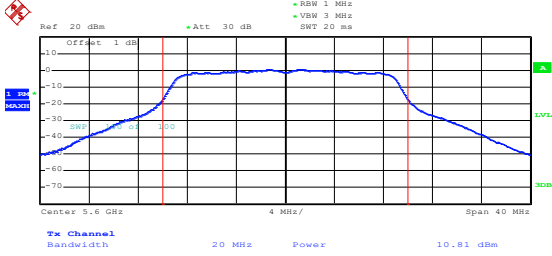
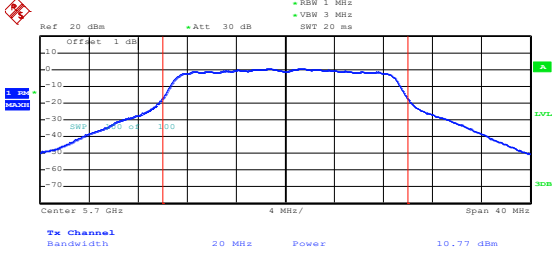
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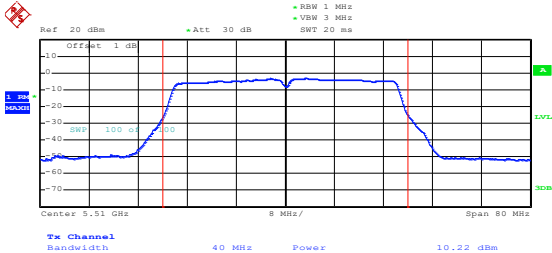
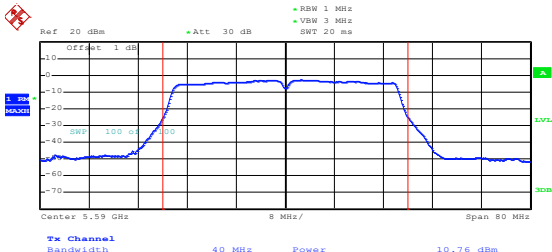
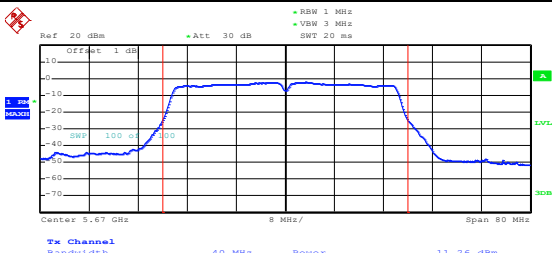


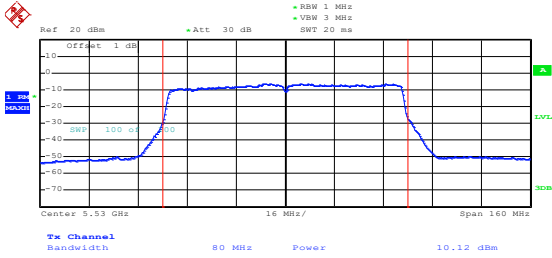
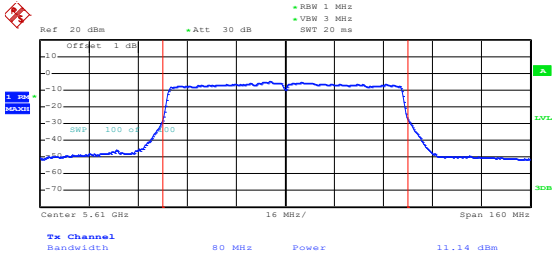
Date: 14.APR.2023 15:50:31



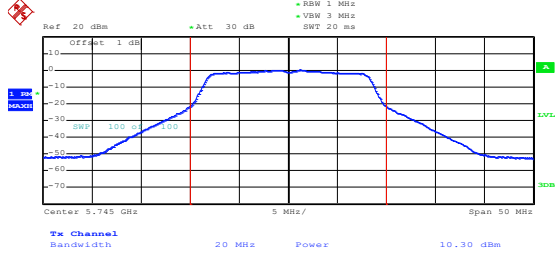
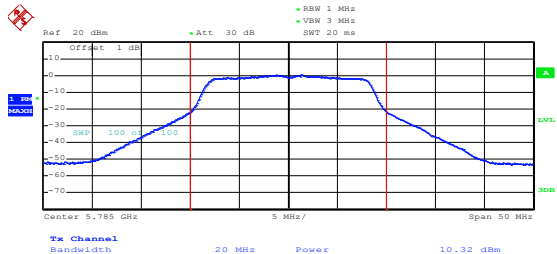
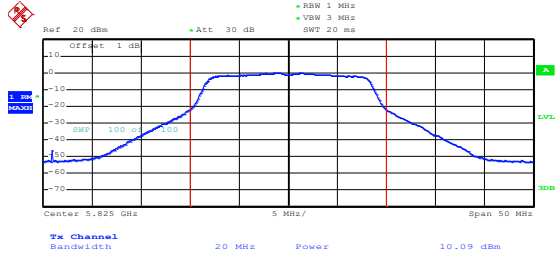
Date: 14.APR.2023 15:51:30

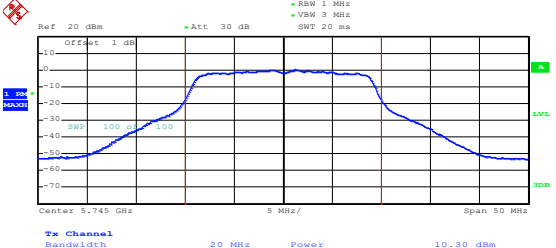
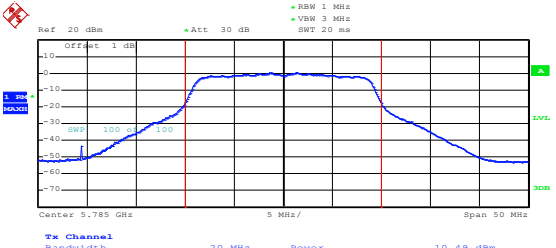
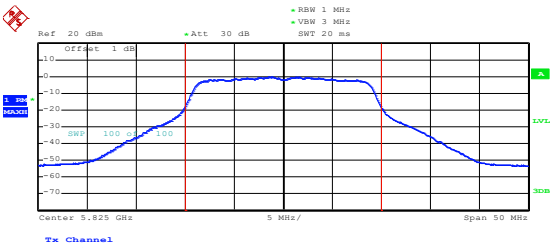
802.11n-HT20-Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.5 GHz Span: 40 MHz Bandwidth: 20 MHz Power: 11.11 dBm Date: 14.APR.2023 15:52:43
802.11n-HT20-Middle	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.6 GHz Span: 40 MHz Bandwidth: 20 MHz Power: 10.81 dBm Date: 14.APR.2023 15:53:45
802.11n-HT20-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.7 GHz Span: 40 MHz Bandwidth: 20 MHz Power: 10.77 dBm Date: 14.APR.2023 15:55:05

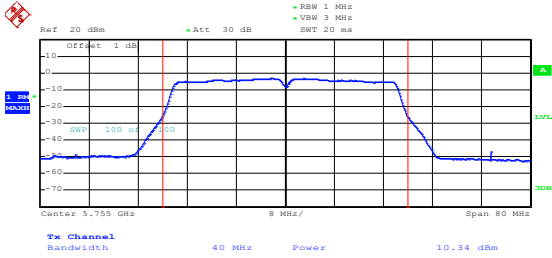
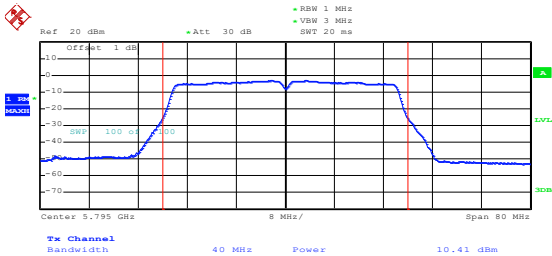
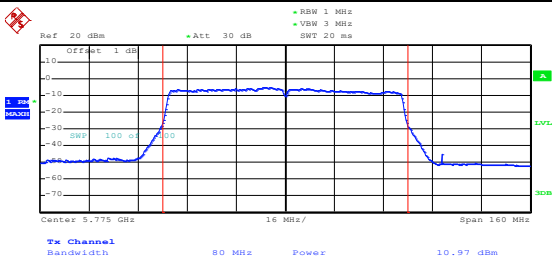
802.11n-HT40-Low	 Date: 14.APR.2023 15:55:48
802.11n-HT40- Middle	 Date: 14.APR.2023 15:56:18
802.11n-HT40-High	 Date: 14.APR.2023 16:00:01

802.11ac-VHT80-Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.53 GHz Span: 160 MHz 16 MHz/div Tx Channel Bandwidth: 80 MHz Power: 10.12 dBm Date: 14.APR.2023 15:57:44
802.11ac-VHT80-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.61 GHz Span: 160 MHz 16 MHz/div Tx Channel Bandwidth: 80 MHz Power: 11.14 dBm Date: 14.APR.2023 15:59:04

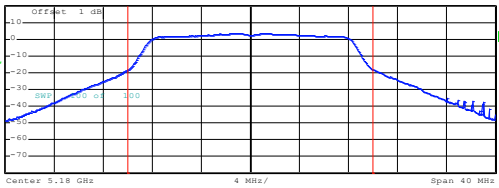
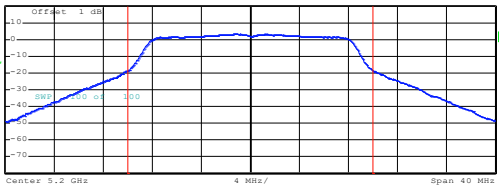
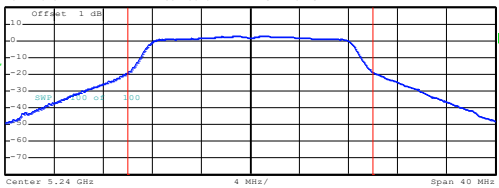
5725-5850MHz

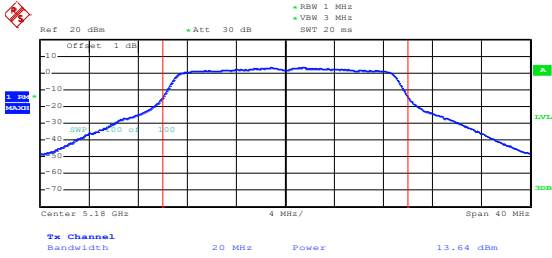
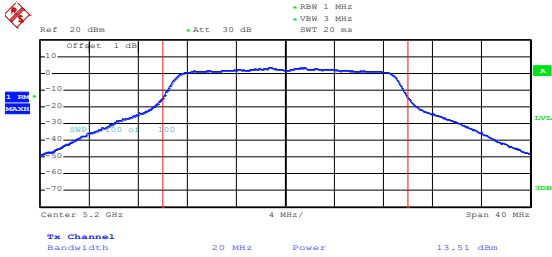
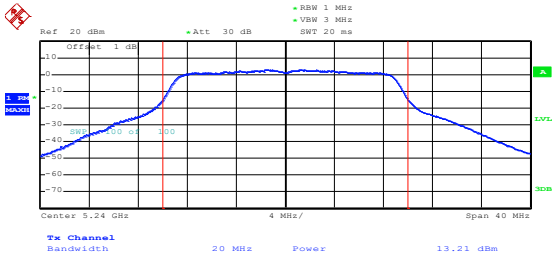
802.11a-Low	 Date: 14.APR.2023 16:33:23
802.11a-Middle	 Date: 14.APR.2023 16:34:30
802.11a-High	 Date: 14.APR.2023 16:41:46

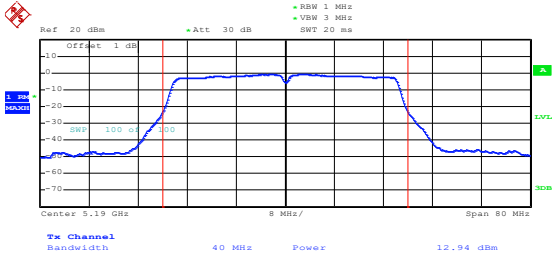
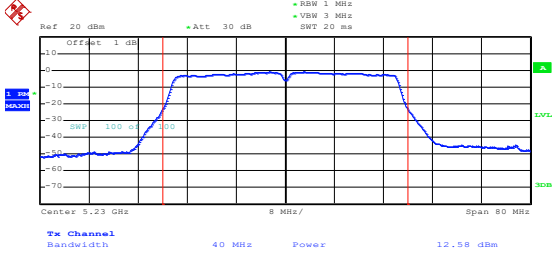
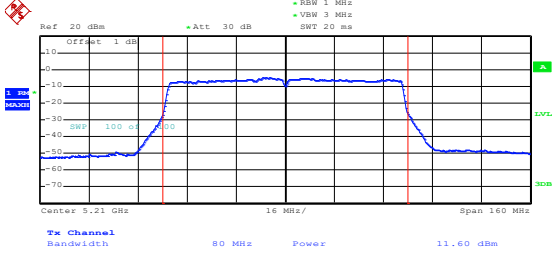
802.11n-HT20-Low	 Date: 14.APR.2023 16:42:44
802.11n-HT20-Middle	 Date: 14.APR.2023 16:46:55
802.11n-HT20-High	 Date: 14.APR.2023 16:47:53

802.11n-HT40-Low	 Date: 14.APR.2023 16:50:34
802.11n-HT40-High	 Date: 14.APR.2023 16:51:34
802.11ac-VHT80	 Date: 14.APR.2023 17:08:37

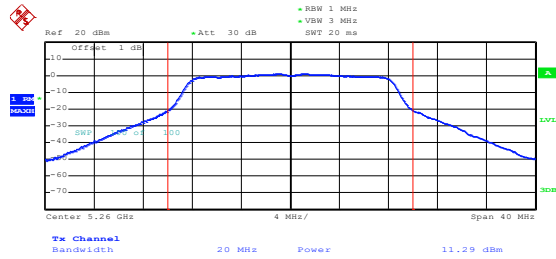
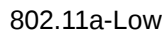
ANT 2
5150-5250MHz

802.11a-Low	 Ref: 20 dBm Att: 30 dB RBW: 1 MHz VSW: 3 MHz SWT: 20 ms Offset: 1 dB Center: 5.18 GHz Span: 40 MHz 4 MHz/ Tx Channel Bandwidth: 20 MHz Power: 13.80 dBm Date: 17.APR.2023 10:28:27
802.11a-Middle	 Ref: 20 dBm Att: 30 dB RBW: 1 MHz VSW: 3 MHz SWT: 20 ms Offset: 1 dB Center: 5.2 GHz Span: 40 MHz 4 MHz/ Tx Channel Bandwidth: 20 MHz Power: 13.49 dBm Date: 17.APR.2023 10:29:06
802.11a-High	 Ref: 20 dBm Att: 30 dB RBW: 1 MHz VSW: 3 MHz SWT: 20 ms Offset: 1 dB Center: 5.24 GHz Span: 40 MHz 4 MHz/ Tx Channel Bandwidth: 20 MHz Power: 13.12 dBm Date: 17.APR.2023 10:29:39

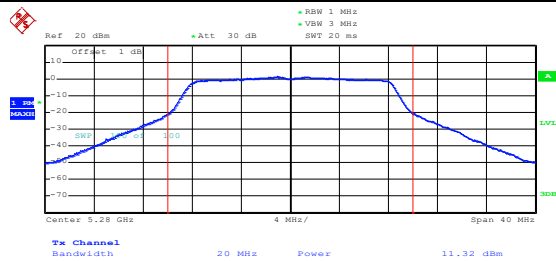
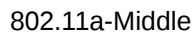
802.11n-HT20-Low	 Date: 17.APR.2023 10:30:27
802.11n-HT20-Middle	 Date: 17.APR.2023 10:30:47
802.11n-HT20-High	 Date: 17.APR.2023 10:31:08

802.11n-HT40-Low	 Date: 17.APR.2023 10:32:15
802.11n-HT40-High	 Date: 17.APR.2023 10:33:34
802.11ac-VHT80	 Date: 17.APR.2023 10:34:27

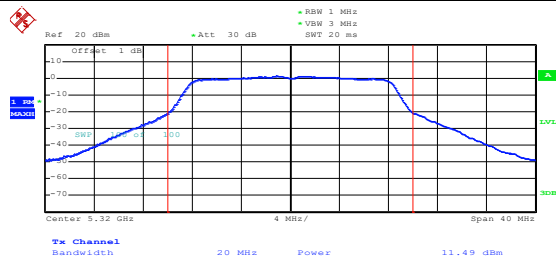
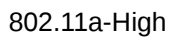
5250-5350MHz



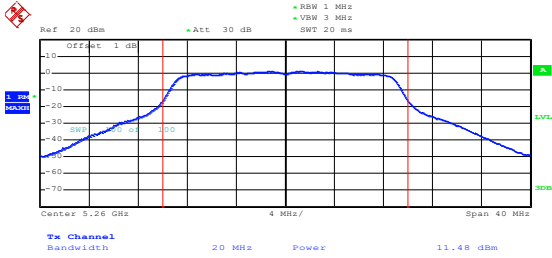
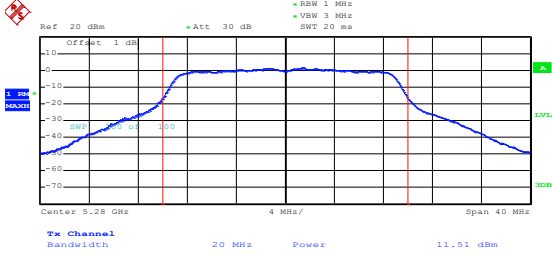
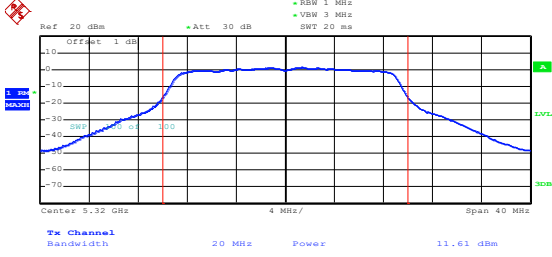
Date: 17.APR.2023 11:41:38

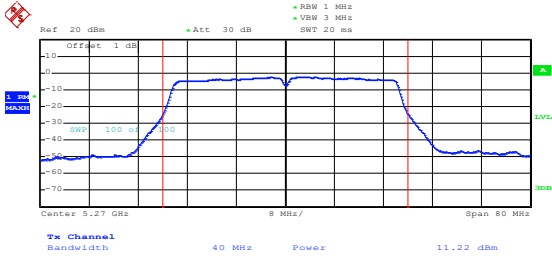
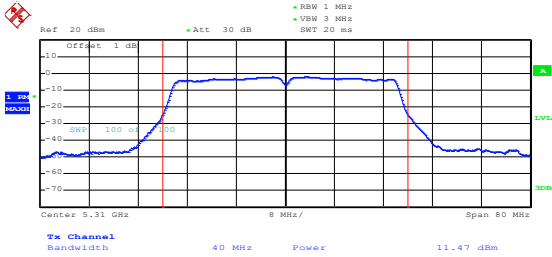
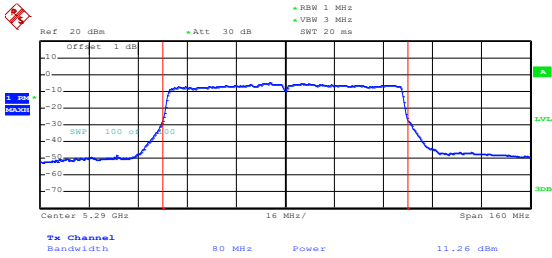


Date: 17.APR.2023 11:41:57

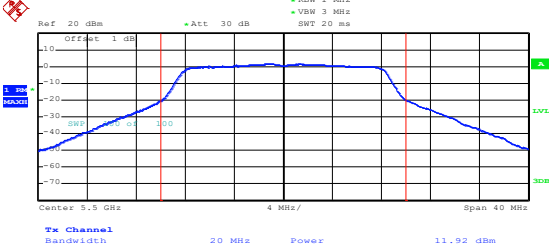
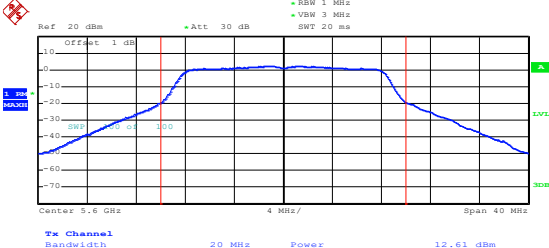
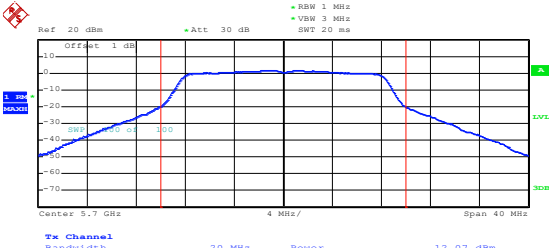


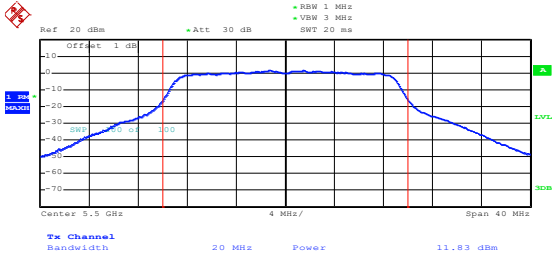
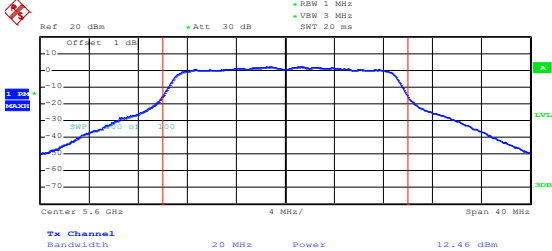
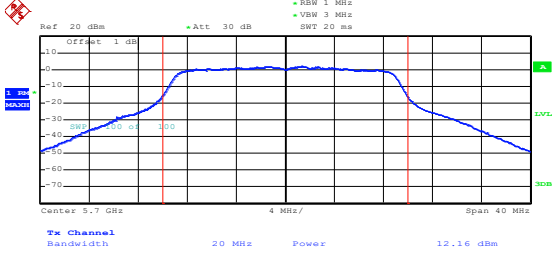
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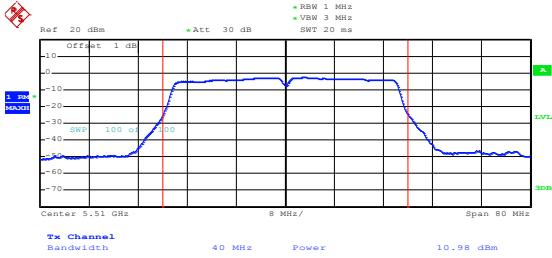
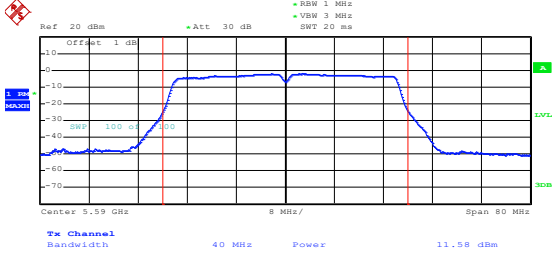
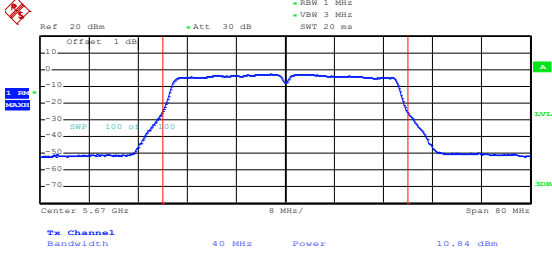
802.11n-HT20-Low	 Date: 17.APR.2023 11:43:35
802.11n-HT20-Middle	 Date: 17.APR.2023 11:44:12
802.11n-HT20-High	 Date: 17.APR.2023 11:45:11

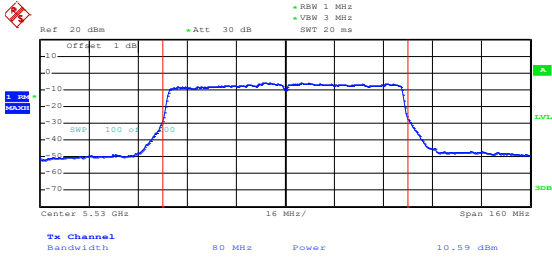
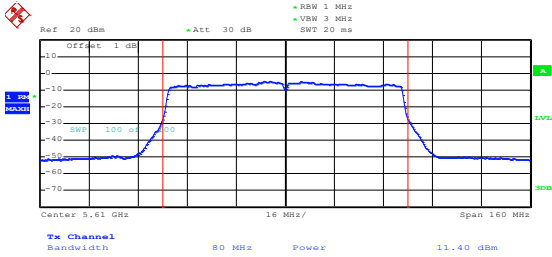
802.11n-HT40-Low	 Date: 17.APR.2023 11:22:29
802.11n-HT40-High	 Date: 17.APR.2023 11:22:03
802.11ac-VHT80	 Date: 17.APR.2023 11:21:18

5470-5725MHz

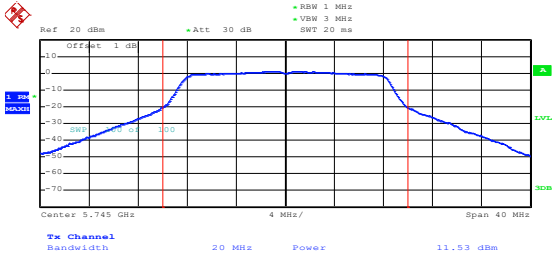
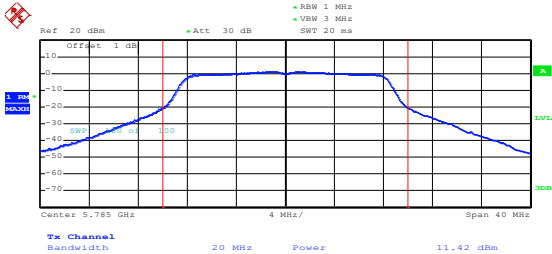
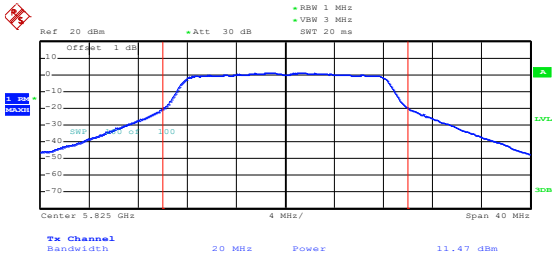
802.11a-Low	 Ref 20 dBm • Att 30 dB • RBW 1 MHz • VBW 3 MHz • SWT 20 ms Offset 1 dB Center 5.5 GHz 4 MHz/ Span 40 MHz Ta Channel Bandwidth 20 MHz Power 11.92 dBm Date: 17.APR.2023 13:53:56
802.11a-Middle	 Ref 20 dBm • Att 30 dB • RBW 1 MHz • VBW 3 MHz • SWT 20 ms Offset 1 dB Center 5.6 GHz 4 MHz/ Span 40 MHz Ta Channel Bandwidth 20 MHz Power 12.61 dBm Date: 17.APR.2023 13:55:26
802.11a-High	 Ref 20 dBm • Att 30 dB • RBW 1 MHz • VBW 3 MHz • SWT 20 ms Offset 1 dB Center 5.7 GHz 4 MHz/ Span 40 MHz Ta Channel Bandwidth 20 MHz Power 12.07 dBm Date: 17.APR.2023 13:56:18

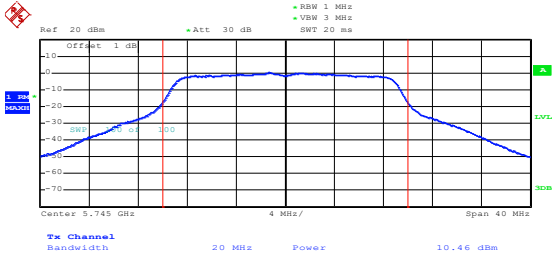
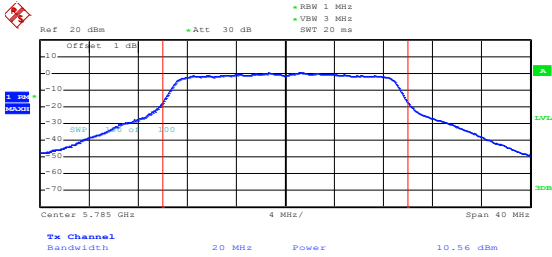
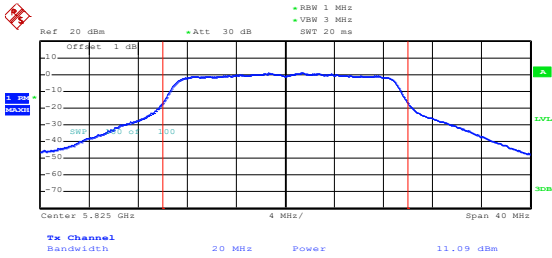
802.11n-HT20-Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.5 GHz Span: 40 MHz 4 MHz/ Ts Channel Bandwidth: 20 MHz Power: 11.83 dBm Date: 17.APR.2023 13:56:53
802.11n-HT20-Middle	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.6 GHz Span: 40 MHz 4 MHz/ Ts Channel Bandwidth: 20 MHz Power: 12.46 dBm Date: 17.APR.2023 13:57:18
802.11n-HT20-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 1 MHz VBW: 3 MHz SWT: 20 ms Center: 5.7 GHz Span: 40 MHz 4 MHz/ Ts Channel Bandwidth: 20 MHz Power: 12.16 dBm Date: 17.APR.2023 13:57:53

802.11n-HT40-Low	 Date: 17.APR.2023 13:59:44
802.11n-HT40- Middle	 Date: 17.APR.2023 14:00:08
802.11n-HT40-High	 Date: 17.APR.2023 14:00:38

802.11ac-VHT80-Low	 Date: 17.APR.2023 14:02:06
802.11ac-VHT80- High	 Date: 17.APR.2023 14:02:46

5725-5850MHz

802.11a-Low	 Date: 17.APR.2023 14:33:53
802.11a-Middle	 Date: 17.APR.2023 14:34:16
802.11a-High	 Date: 17.APR.2023 14:55:34

802.11n-HT20-Low	 Date: 17.APR.2023 14:56:08
802.11n-HT20-Middle	 Date: 17.APR.2023 14:56:44
802.11n-HT20-High	 Date: 17.APR.2023 14:57:01

802.11n-HT40-Low	Date: 17.APR.2023 14:57:36
802.11n-HT40-High	Date: 17.APR.2023 14:58:17
802.11ac-VHT80	Date: 17.APR.2023 14:59:06

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%	3.8	-30	1596	0.3069
100%		-20	1583	0.3044
100%		-10	1598	0.3073
100%		0	1592	0.3061
100%		+10	1592	0.3061
100%		+20	1595	0.3067
100%		+30	1591	0.3059
100%		+40	1595	0.3066
100%		+50	1597	0.3071
Low Battery power	3.4	+20	1591	0.3061
High Battery power	4.2	+20	1585	0.3049

U-NII-2A: 5250-5350MHz worst case at 802.11a middle channel				
Voltage(%)	Power(VDC)	TEMP(°C)	Freq.Dev(Hz)	Deviation
100%	3.8	-30	1590	0.3012
100%		-20	1586	0.3004
100%		-10	1592	0.3016
100%		0	1590	0.3012
100%		+10	1584	0.3000
100%		+20	1593	0.3017
100%		+30	1584	0.3000
100%		+40	1585	0.3001
100%		+50	1597	0.3025
Low Battery power	3.4	+20	1586	0.3003
High Battery power	4.2	+20	1588	0.3008

U-NII-2C: 5470-5725MHz worst case at 802.11a middle channel				
Voltage(%)	Power(VDC)	TEMP(°C)	Freq.Dev(Hz)	Deviation
100%	3.8	-30	1580	0.2832
100%		-20	1581	0.2834
100%		-10	1581	0.2834
100%		0	1584	0.2839
100%		+10	1600	0.2867
100%		+20	1586	0.2842
100%		+30	1596	0.2861
100%		+40	1584	0.2840
100%		+50	1600	0.2867
Low Battery power	3.4	+20	1591	0.2851
High Battery power	4.2	+20	1585	0.2841

U-NII-3:5725-5850MHz worst case at 802.11a middle channel				
Voltage(%)	Power(VDC)	TEMP(°C)	Freq.Dev(Hz)	Deviation
100%	3.8	-30	1587	0.2743
100%		-20	1590	0.2748
100%		-10	1583	0.2736
100%		0	1587	0.2743
100%		+10	1584	0.2739
100%		+20	1600	0.2766
100%		+30	1596	0.2759
100%		+40	1590	0.2749
100%		+50	1585	0.2740
Low Battery power	3.4	+20	1585	0.2740
High Battery power	4.2	+20	1597	0.2761

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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