



Regulatory Test Report

Prepared for Harman International Industries, Inc.

This report presents detailed information on

R1 INT ER 3B HW4

R1 INT RW 3B HW4

Prepared by

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Engineer III

Approved by

Jason Kanakry

General Manager

Issue date: 05/09/2025

Report No: J23134-R1 INT ER-RW 3B HW4-TR2 v1

This test result relates only to the described test object.

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The test is traceable to national standard or related international standard

Contents

1. TEST REQUEST INFORMATION.....3

2. TEST LABORATORY INFORMATION4

3. STATEMENT OF CONFORMITY.....5

4. CONDUCTED TESTING.....6

5. RADIATED TESTING48

1. TEST REQUEST INFORMATION

Test Request #:	7700206793
Test Requested By:	Pranav Patel Harman International Industries, Inc. 30001 Cabot Drive, Novi, MI 48377
Test item Description:	R1 INT ER 3B HW4, R1 INT RW 3B HW4
Part Number:	P68711112AA, 2182
DUT Sample Number:	J23134 ER 3B#001, J23134 RW 3B#001
FVIN:	FCA-MY24.MNL-OD.4214
Hardware Version of DUT:	N/A
Software Version of DUT:	N/A
Component Category of DUT:	N/A
FCC ID:	2AHPN-BE2882 (R1 INT ER 3B HW4) 2AHPN-BE2883 (R1 INT RW 3B HW4)
ISED ID:	6434C-BE2882
Type of Test:	FCC/ISED Certification
Test Method:	CFR Title 47 FCC Part 15.407, ISED Canada RSS-247 Issue 3, ISED Canada RSS-Gen Issue 5, FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 and ANSI C63.10-2013
Deviations from standard:	None
Approved Test Plan Number:	N/A
Test Plan Revision:	N/A
Date Test Sample Received:	03-03-2025
Date Test Started:	03-05-2025
Date Test Finished:	05-05-2025

2. TEST LABORATORY INFORMATION

Location of Test Lab:	The radiated and conducted emissions test sites are located at Bureau Veritas 815 N. Opdyke Rd #100, Auburn Hills, MI 48326, Phone: +1-248-836-4700
Key Contact:	Jason Kanakry (General Manager) Jason.Kanakry@BureauVeritas.com Phone: +1-248-836-4747
Laboratory Accreditations:	BUREAU VERITAS CONSUMER PRODUCTS SERVICES, INC is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
ISO/IEC 17025:2017:	5678.01
FCC Test Site Number:	US1278 (242530)
IC Test Site Number:	US0229 (26240)

3. STATEMENT OF CONFORMITY

RSS-GEN	RSS 247	Part 15	Comments
6.4		15.15(b)	There are no controls accessible to the user that varies the output power to operate in violation of the regulatory requirements.
		15.19	The label shown in the label exhibit.
		15.21	Information to the user shown in the instruction manual exhibit.
		15.27	No special accessories are required for compliance.
3.2		15.31	The EUT tested in accordance with the measurement standards in this section.
6.13.2		15.33	Frequency range investigated according to this section, unless noted in specific rule section under which the equipment operates.
6.13.1		15.35	The EUT emissions are measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.
6.8		15.203	EUT employs integrated PCB antenna with 2.67dBi (UNII-1) and 1.52dBi (UNII-3)
8.10		15.205 15.209	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209 or RSS-Gen as applicable
8.8		15.207	N/A. EUT is vehicle battery powered only.

4. CONDUCTED TESTING

4.1 Test Summary

This test report supports an application for certification of a transmitter operating pursuant to:

CFR Title 47 FCC Part 15.407, ISSED Canada RSS-247 Issue 3, ISSED Canada RSS-Gen Issue 5, FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 and ANSI C63.10-2013

The product is **R1 INT ER 3B HW4** and **R1 INT RW 3B HW4** transmitter that operates in UNII-1 (5.15GHz – 5.25GHz) and UNII-3 (5.725GHz – 5.85GHz)

Details	Description
Frequency Range (MHz)	UNII-1 (5.15GHz – 5.25GHz) UNII-3 (5.725GHz – 5.85GHz)
Tested Modes	802.11a 802.11n(HT20, HT40) 802.11ac (VHT20, VHT40, VHT80).
Tested Channels	UNII-1 (36-48) UNII-3 (149-165)
DUT Antenna Type	Integrated PCB antenna
Number of transmit chains	1
Equipment Type	Unlicensed National Information Infrastructure Device
DUT Antenna Gain	2.67dBi (UNII-1) 1.52dBi (UNII-3) ☒ Provided by Customer with Gain Report ☐ Not Provided by Customer
DUT/EUT Operation	EUT is configured/programmed by an External Test Laptop with USB and Ethernet interfaces to set WLAN Test Mode, data rates, channels, bandwidth, band configurations etc., using labtool (MFGBridge_Tool).

Test samples received in good condition. We found that the product met the above requirements with modification.

Test Item	Sample #	Result
FCC 15.407 UNII-1	J23134 ER 3B#001 J23134 RW 3B#001	Meets Requirements
FCC 15.407 UNII-3	J23134 ER 3B#001 J23134 RW 3B#001	Meets Requirements

Note: R1 INT ER 3B HW4 is determined as Worst-case Variant, so Full Testing performed on R1 INT ER 3B HW4.

UNII-1 Test Results Summary

Test	Frequency (MHz)	802.11a	802.11n(HT20)	802.11ac (VHT20)
RF Output Power	5180/5200/5240	PASS	PASS	PASS
Power Spectral Density	5180/5200/5240	PASS	PASS	PASS
DTS Bandwidth (6dB)	5180/5200/5240	PASS	PASS	PASS
Occupied Channel Bandwidth 99%	5180/5200/5240	PASS	PASS	PASS
		802.11n(HT40)		802.11ac(VHT40)
RF Output Power	5190/5230	PASS	PASS	
Power Spectral Density	5190/5230	PASS	PASS	
DTS Bandwidth (6dB)	5190/5230	PASS	PASS	
Occupied Channel Bandwidth 99%	5190/5230	PASS	PASS	
		802.11ac(VHT80)		
RF Output Power	5210	PASS		
Power Spectral Density	5210	PASS		
DTS Bandwidth (6dB)	5210	PASS		
Occupied Channel Bandwidth 99%	5210	PASS		

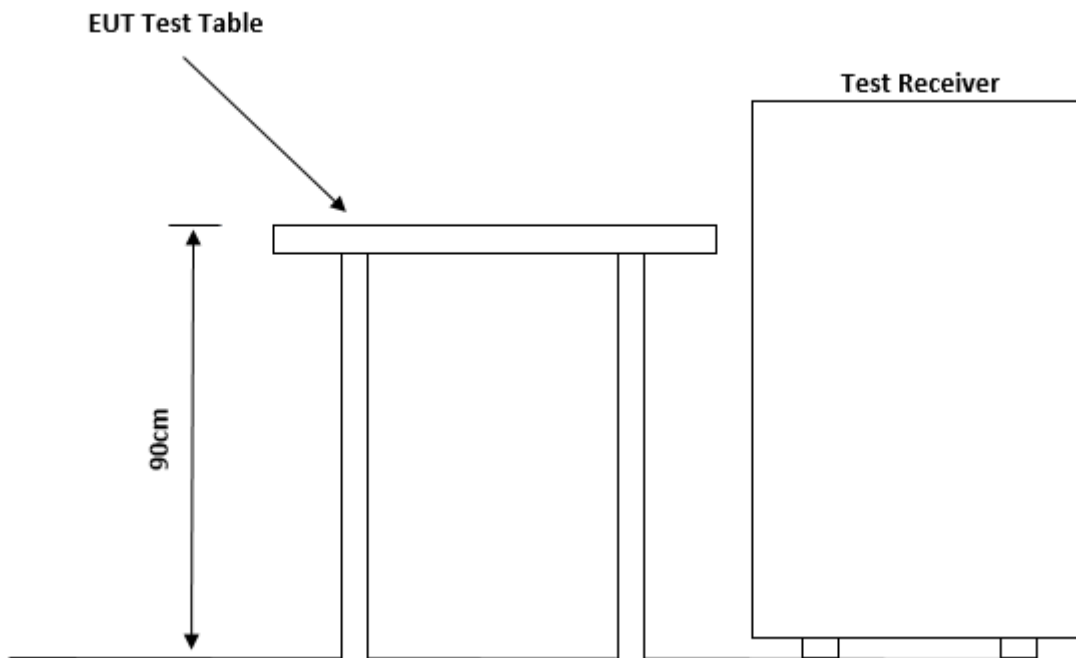
UNII-3 Test Results Summary

Test	Frequency (MHz)	802.11a	802.11n(HT20)	802.11ac (VHT20)
RF Output Power	5745/5785/5825	PASS	PASS	PASS
Power Spectral Density	5745/5785/5825	PASS	PASS	PASS
DTS Bandwidth (6dB)	5745/5785/5825	PASS	PASS	PASS
Occupied Channel Bandwidth 99%	5745/5785/5825	PASS	PASS	PASS
		802.11n(HT40)		802.11ac(VHT40)
RF Output Power	5755/5795	PASS		PASS
Power Spectral Density	5755/5795	PASS		PASS
DTS Bandwidth (6dB)	5755/5795	PASS		PASS
Occupied Channel Bandwidth 99%	5755/5795	PASS		PASS
		802.11ac(VHT80)		
RF Output Power	5775	PASS		
Power Spectral Density	5775	PASS		
DTS Bandwidth (6dB)	5775	PASS		
Occupied Channel Bandwidth 99%	5775	PASS		

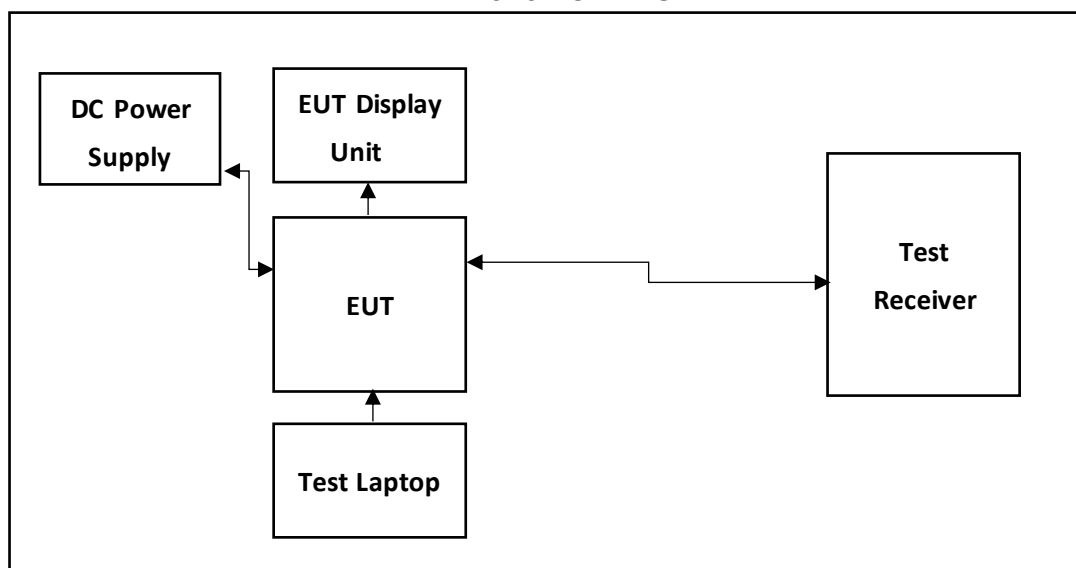
4.2 Test Setup

Conducted Test Site Description

Test site is accommodated with test tabletop and floor standing test equipment.



TEST SETUP DIAGRAM



4.3 Test Equipment Used

ID #	Equipment	Manufacturer	Model #	Serial #	Cal Due
BVD0226	Spectrum Analyzer 10Hz-44GHz	Rohde & Schwarz	FSV3044	101018	04/20/2026
BVD0227	8 port switch unit for Wireless Test system	Rohde & Schwarz	OSP150	101100	11/24/2025
BVD0228	8 port switch unit for Wireless Test system	Rohde & Schwarz	OSP220	101632	11/14/2025
BVD0224	Signal Generator 100kHz-40GHz	Rohde & Schwarz	SMB100A	181741	04/19/2026
BVD0225	Signal Generator 100k-6GHz with GPS simulator	Rohde & Schwarz	SMW200A	107664	04/20/2026
BVD0250	Wireless Connectivity Tester 70M-6GHz	Rohde & Schwarz	CMW270	102113	04/19/2026
BVD0302	DC power supply 1-15VDC 60A 110/220 11.5A max input	BK Precision	1693	257F17180	N/A
BVD0321	Fixed Attenuator 2W 20dB -40GHz	Mini-Circuits	BW-K20-2W44+	2103	01/27/2026
BVD0430	Multimeter	Fluke	117	49710262SV	11/07/2025
BVD0229	Temp and Humidity Meter	Fluke	971	12001009	05/23/2025
N/A	Test-PC	Lenovo ThinkPad	E480	SL10Q37355	N/A

Notes: - DC power supply verified before use with calibrated Multimeter.

Customer Supplied Equipment

ID #	Equipment	Manufacturer	Model	Serial #	Version No.
N/A	Harness	Harman	N/A	N/A	N/A
N/A	Display Unit	MOBIS	BMM6100000	231107 01	N/A
N/A	Shark Fin Antenna	Alfa Romeo	B901	719147	N/A
N/A	Antenna	Aptiv	APN35409682	N/A	N/A
N/A	Camera	N/A	23295906C	N/A	N/A
N/A	MFGBridge_Tool/ Dut labtool	N/A	N/A	N/A	2.0.0.89

Equipment List (Software)

ID #	Equipment	Manufacturer	Model	Version No	
N/A	EMC Test Software	Rodhe & Schwarz	EMC32	11.20.00	N/A

4.4 UNII-1

Mode	Channel	Frequency
802.11a 802.11n(HT20) 802.11ac(VHT20)	36	5180
802.11n(HT40) 802.11ac(VHT40)	38	5190
802.11a 802.11n(HT20) 802.11ac(VHT20)	40	5200
802.11ac(VHT80)	42	5210
802.11n(HT40) 802.11ac(VHT40)	46	5230
802.11a 802.11n(HT20) 802.11ac(VHT20)	48	5240

Notes: Channels and modes above were tested.

Power settings

802.11a		802.11n (HT20)		802.11ac (VHT20)	
Channel	Power Setting	Channel	Power Setting	Channel	Power Setting
36	5	36	5	36	5
40	5	40	5	40	5
48	5	48	5	48	5

802.11n (HT40)		802.11ac (VHT40)	
Channel	Power Setting	Channel	Power Setting
38	5	38	5
46	5	46	5

802.11ac (VHT80)	
Channel	Power Setting
42	3

4.4.1 RF output power

4.4.1.1 FCC

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013 (In Reference to KDB 789033 E.3.B). Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Device has both client and access point modes and has identical RF characteristics and settings for both Limits are as follow s:

15.407(a)(1)(i): 1W (30dBm) for outdoor access points with antenna gains less than 6dBi.

15.407(a)(1)(iv): 250mW (23.9dBm) for client devices with antenna gains less than 6dBi.

Since client devices are subject to more stringent limits, units were tested against the limits for a client device.

4.4.1.1.a R1 INT ER 3B HW4

802.11a

Data Rate	Gated RMS (dBm) 5180MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
6 Mbps	3.786	2.67	6.456	21.0	5
Data Rate	Gated RMS (dBm) 5200MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
6 Mbps	3.581	2.67	6.251	21.0	5
Data Rate	Gated RMS (dBm) 5240MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
6 Mbps	3.049	2.67	5.719	21.0	5

802.11n (HT20)

Data Rate	Gated RMS (dBm) 5180MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	3.848	2.67	6.518	21.0	5
Data Rate	Gated RMS (dBm) 5200MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.321	2.67	5.991	21.0	5
Data Rate	Gated RMS (dBm) 5240MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.102	2.67	5.772	21.0	5

802.11ac (VHT20)

Data Rate	Gated RMS (dBm) 5180MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	3.893	2.67	6.563	21.0	5
Data Rate	Gated RMS (dBm) 5200MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.693	2.67	6.363	21.0	5
Data Rate	Gated RMS (dBm) 5240MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.173	2.67	5.843	21.0	5

802.11n (HT40)

Data Rate	Gated RMS (dBm) 5190MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	3.549	2.67	6.219	21.0	5
Data Rate	Gated RMS (dBm) 5230MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.108	2.67	5.778	21.0	5

802.11ac (VHT40)

Data Rate	Gated RMS (dBm) 5190MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	3.533	2.67	6.203	21.0	5
Data Rate	Gated RMS (dBm) 5230MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.127	2.67	5.797	21.0	5

802.11ac (VHT80)

Data Rate	Gated RMS (dBm) 5210MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	1.379	2.67	4.049	21.0	3

4.4.1.1.b R1 INT RW 3B HW4

802.11a

Data Rate	Gated RMS with TPC (dBm) 5180MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
6 Mbps	3.692	2.67	6.362	21.0	5
Data Rate	Gated RMS (dBm) 5200MHz	Antenna Gain(dBi)		Limit (dBm)	
6 Mbps	3.547	2.67	6.217	21.0	5
Data Rate	Gated RMS (dBm) 5240MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
6 Mbps	2.703	2.67	5.373	21.0	5

802.11n (HT20)

Data Rate	Gated RMS (dBm) 5180MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	3.779	2.67	6.449	21.0	5
Data Rate	Gated RMS (dBm) 5200MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.572	2.67	6.242	21.0	5
Data Rate	Gated RMS (dBm) 5240MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.018	2.67	5.688	21.0	5

802.11ac (VHT20)

Data Rate	Gated RMS (dBm) 5180MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	3.754	2.67	6.424	21.0	5
Data Rate	Gated RMS (dBm) 5200MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.614	2.67	6.284	21.0	5
Data Rate	Gated RMS (dBm) 5240MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.013	2.67	5.683	21.0	5

802.11n (HT40)

Data Rate	Gated RMS (dBm) 5190MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	3.488	2.67	6.158	21.0	5
Data Rate	Gated RMS (dBm) 5230MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	2.965	2.67	5.635	21.0	5

802.11ac (VHT40)

Data Rate	Gated RMS (dBm) 5190MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	3.492	2.67	6.162	21.0	5
Data Rate	Gated RMS (dBm) 5230MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	2.971	2.67	5.641	21.0	5

802.11ac (VHT80)

Data Rate	Gated RMS (dBm) 5210MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	1.428	2.67	4.098	21.0	3

4.4.1.2 RSS-247

Per RSS-247 Issue 2 Section 6.2.1.1, limit for OEM devices installed in vehicles: Maximum EIRP shall not exceed 30mW or $1.76 + 10 \cdot \log B$, dBm, whichever is less (where B is 99% OBW in MHz). In addition, devices must be capable of reducing power by at least 3dB below the maximum permitted EIRP of 30mW, which is 11.77dBm.

For modulations with less than 20MHz 99% OBW; 802.11a, 802.11n (HT20) and 802.11ac (VHT20), worst case 99% OBW of 16.600MHz is assumed with resulting conservative limit of 13.96dBm. For modulations with more than 20MHz 99% OBW; 802.11n (HT40), 802.11ac (VHT40) and 802.11ac (VHT80), the limit is 30mW (14.77dBm)

802.11a

Data Rate	Gated RMS with TPC (dBm) 5180MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
6 Mbps	3.786	2.67	6.456	13.96	5
Data Rate	Gated RMS (dBm) 5200MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
6 Mbps	3.581	2.67	6.251	13.96	5
Data Rate	Gated RMS (dBm) 5240MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
6 Mbps	3.049	2.67	5.719	13.96	5

802.11n (HT20)

Data Rate	Gated RMS (dBm) 5180MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	3.848	2.67	6.518	13.96	5
Data Rate	Gated RMS (dBm) 5200MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.321	2.67	5.991	13.96	5
Data Rate	Gated RMS (dBm) 5240MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.102	2.67	5.772	13.96	5

802.11ac (VHT20)

Data Rate	Gated RMS (dBm) 5180MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	3.893	2.67	6.563	13.96	5
Data Rate	Gated RMS (dBm) 5200MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.693	2.67	6.363	13.96	5
Data Rate	Gated RMS (dBm) 5240MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.173	2.67	5.843	13.96	5

802.11n (HT40)

Data Rate	Gated RMS (dBm) 5190MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	3.549	2.67	6.219	14.77	5
Data Rate	Gated RMS (dBm) 5230MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.108	2.67	5.778	14.77	5

802.11ac (VHT40)

Data Rate	Gated RMS (dBm) 5190MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	3.533	2.67	6.203	14.77	5
Data Rate	Gated RMS (dBm) 5230MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	
MCS0	3.127	2.67	5.797	14.77	5

802.11ac (VHT80)

Data Rate	Gated RMS (dBm) 5210MHz	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	1.379	2.67	4.049	14.77	3

4.4.2 Power Spectral Density

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New

Rules v02r01 II.F with test method SA-1 and ANSI C63.10-2013.

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1.3 dB

FCC

Device has both client and access point modes and has identical RF characteristics and settings for both Limits are as follows:

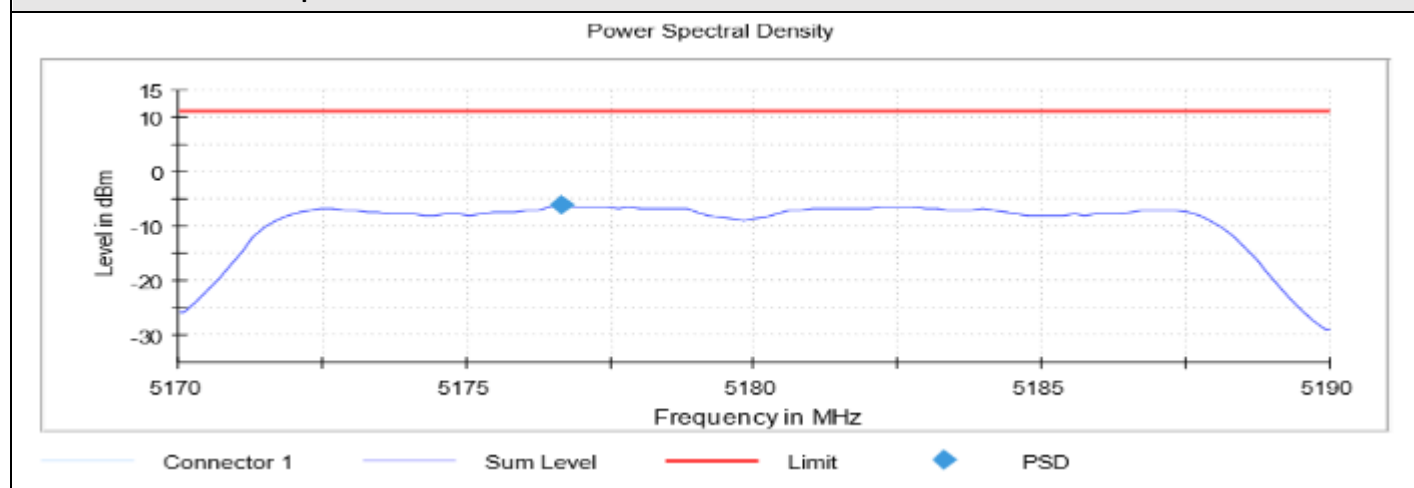
15.407(a)(1)(i): 17dBm for outdoor access points with antenna gains less than 6dBi.

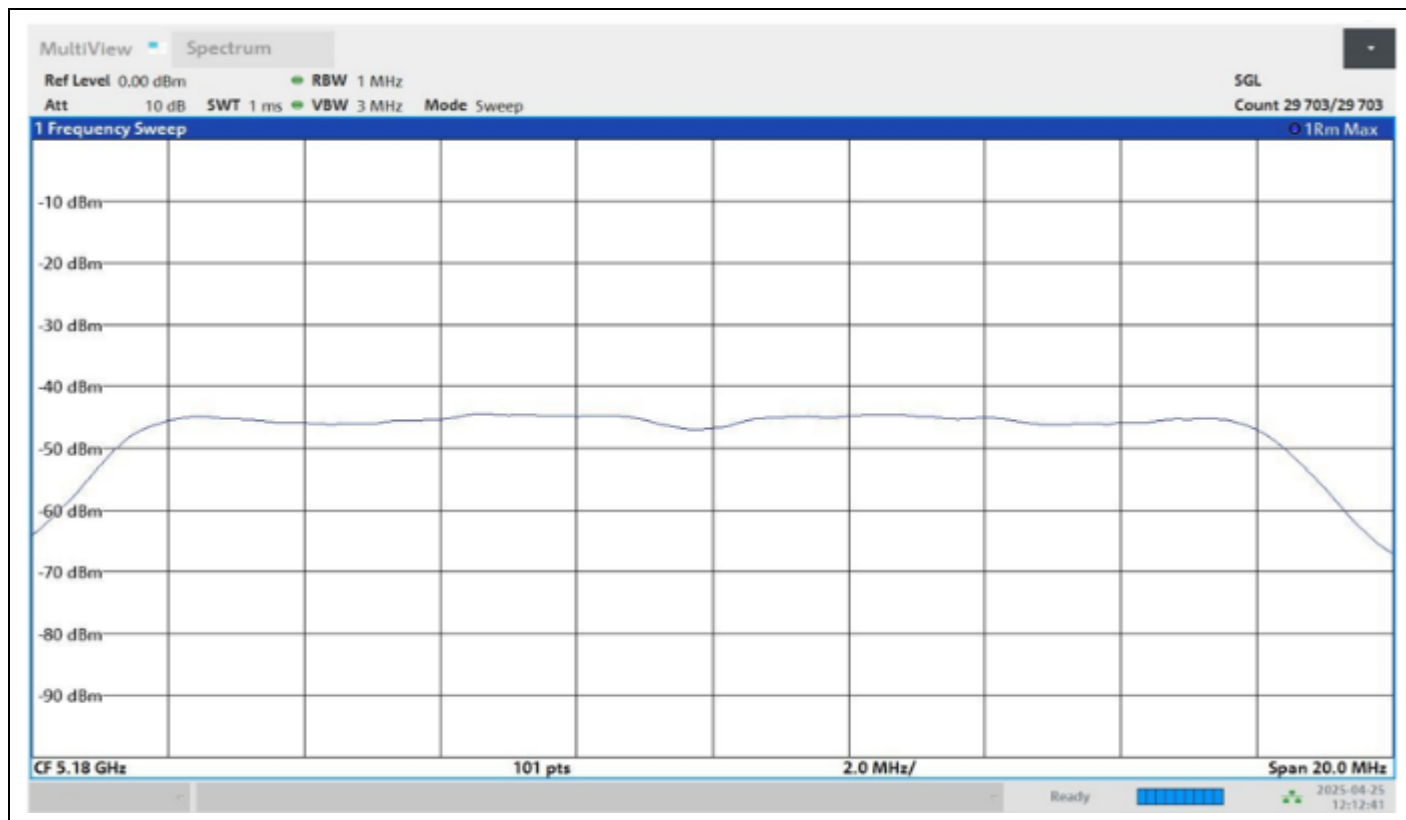
15.407(a)(1)(iv): 11dBm for client devices with antenna gains less than 6dBi.

Since client devices are subject to more stringent limits, unit tested against the limits for a client device.

Mode	Data Rate	PSD (dBm) 5180 MHz	PSD (dBm) 5200 MHz	PSD (dBm) 5240 MHz	Limit (dBm)	Power Setting (dBm)
802.11a	6Mbps	-6.335	-6.487	-7.088	11.0	5

802.11a 5180 MHz 6Mbps



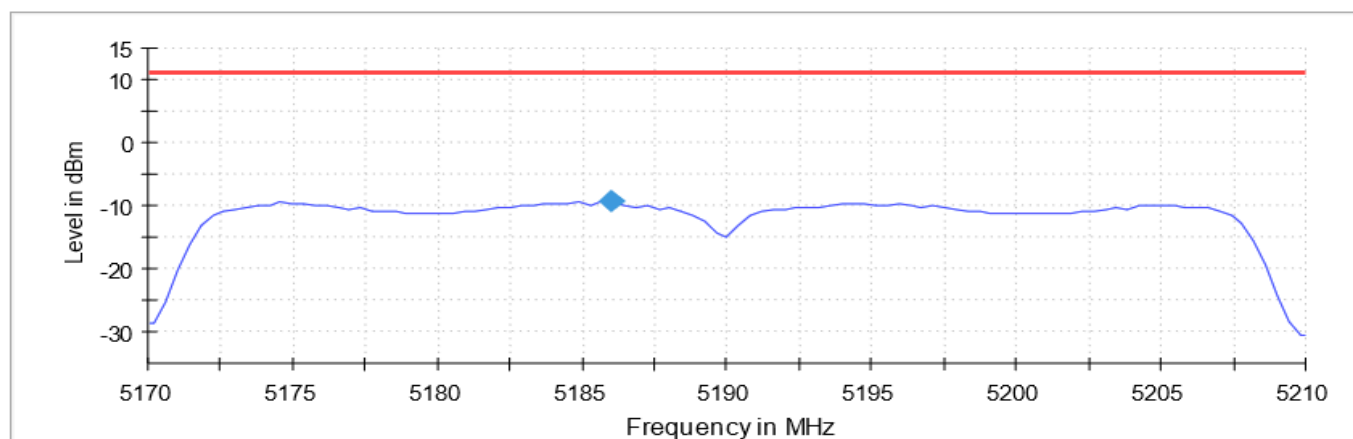


Mode	Data Rate	PSD (dBm) 5180 MHz	PSD (dBm) 5200 MHz	PSD (dBm) 5240 MHz	Limit (dBm)	Power Setting (dBm)
802.11n (HT20)	MCS0	-6.125	-6.437	-6.640	11.0	5

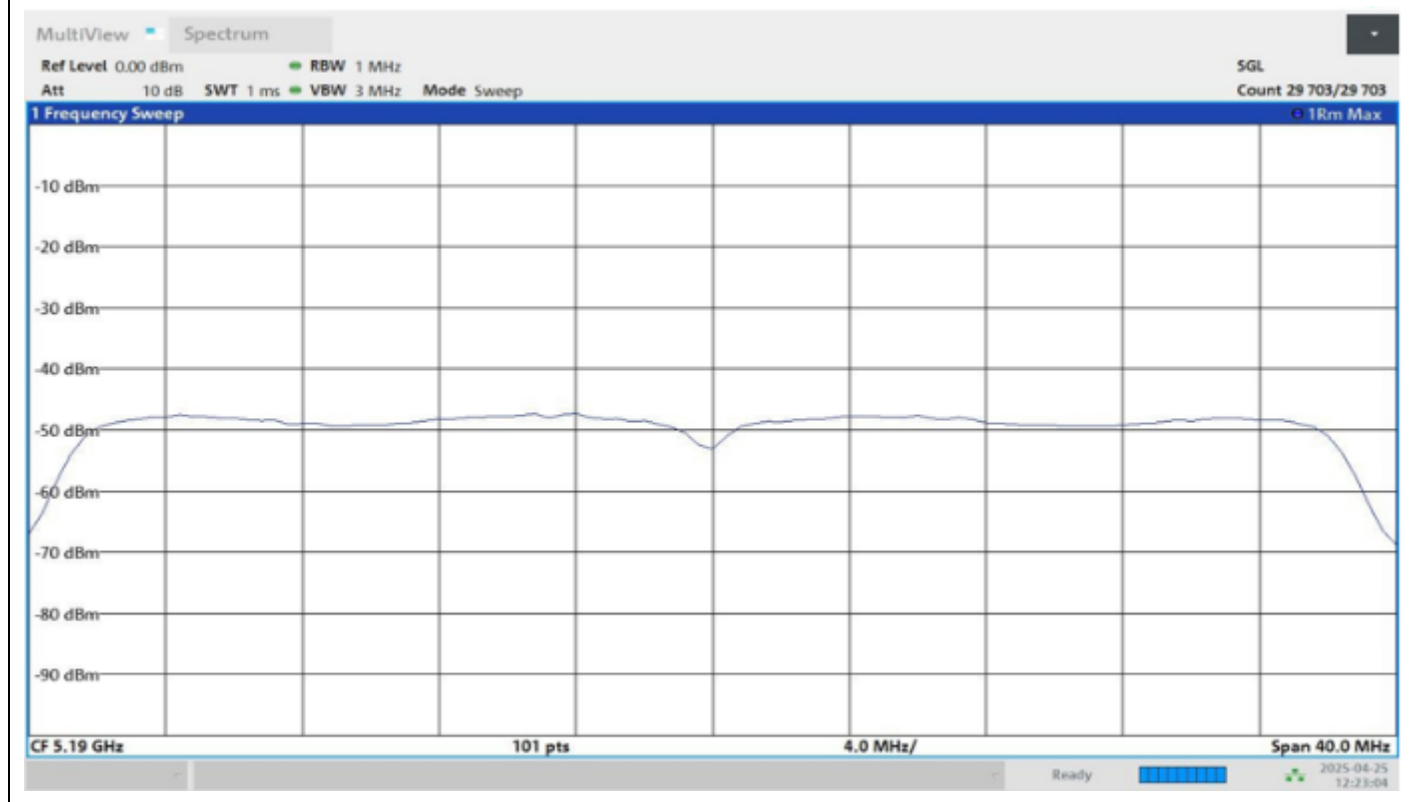
Mode	Data Rate	PSD (dBm) 5190 MHz	PSD (dBm) 5230 MHz	Limit (dBm)	Power Setting (dBm)
802.11n (HT40)	MCS0	-9.282	-9.857	11.0	5

802.11n (HT40) 5190 MHz MCS0

Power Spectral Density



Connector 1 Sum Level Limit PSD

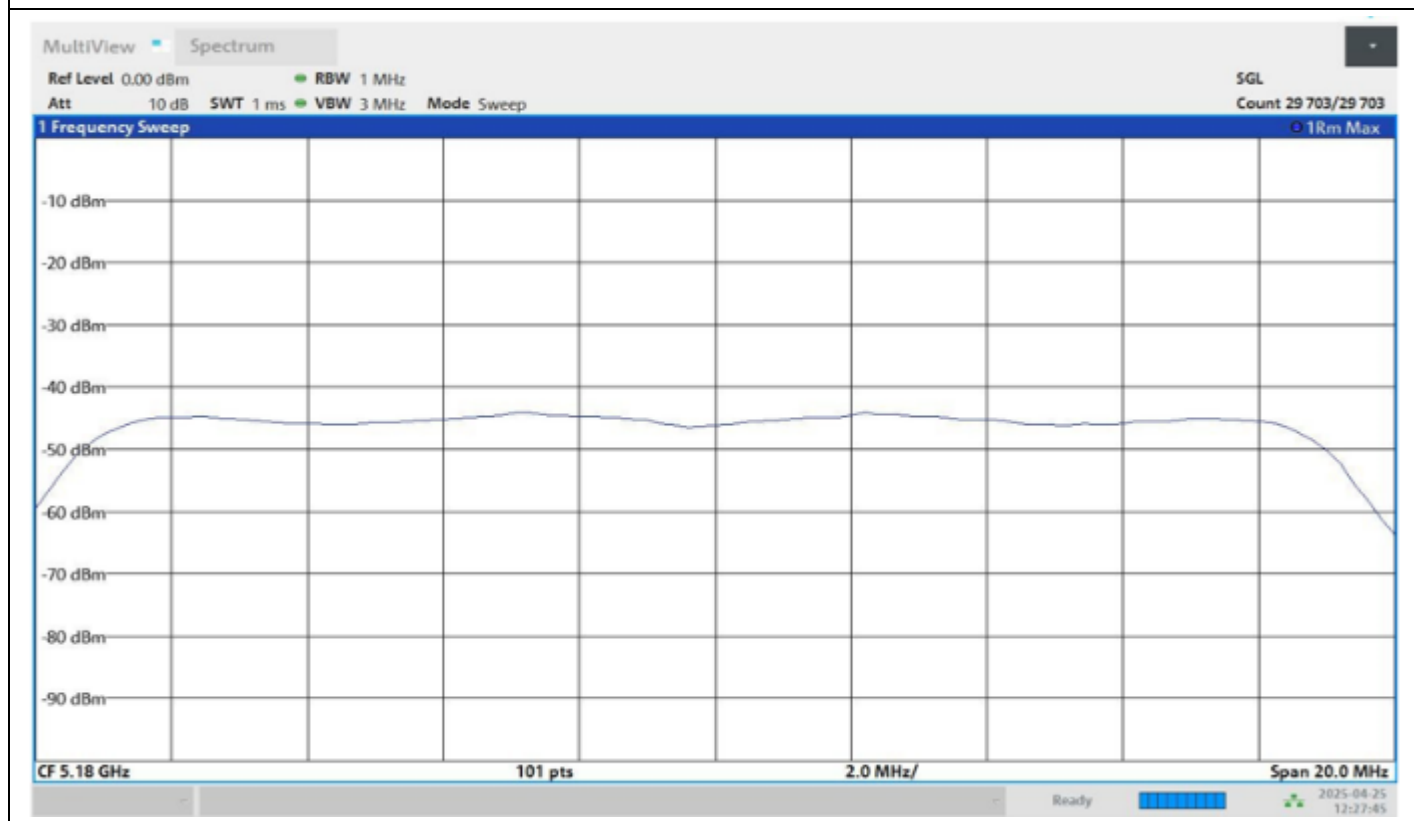
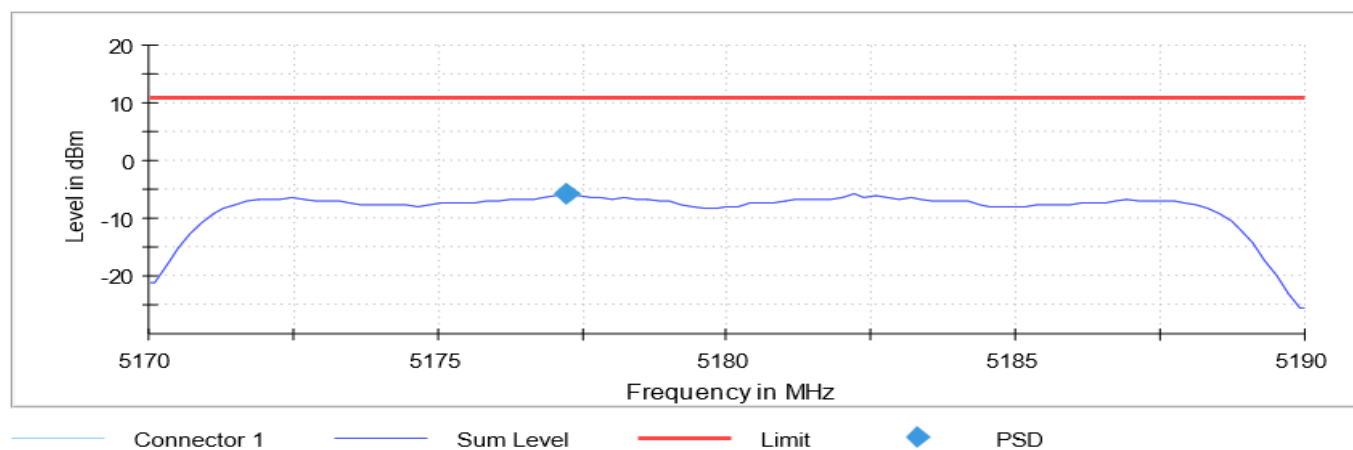


Mode	Data Rate	PSD (dBm) 5180 MHz	PSD (dBm) 5200 MHz	PSD (dBm) 5240 MHz	Limit (dBm)	Power Setting (dBm)
802.11ac (VHT20)	MCS0	-5.994	-6.046	-6.553	11.0	5

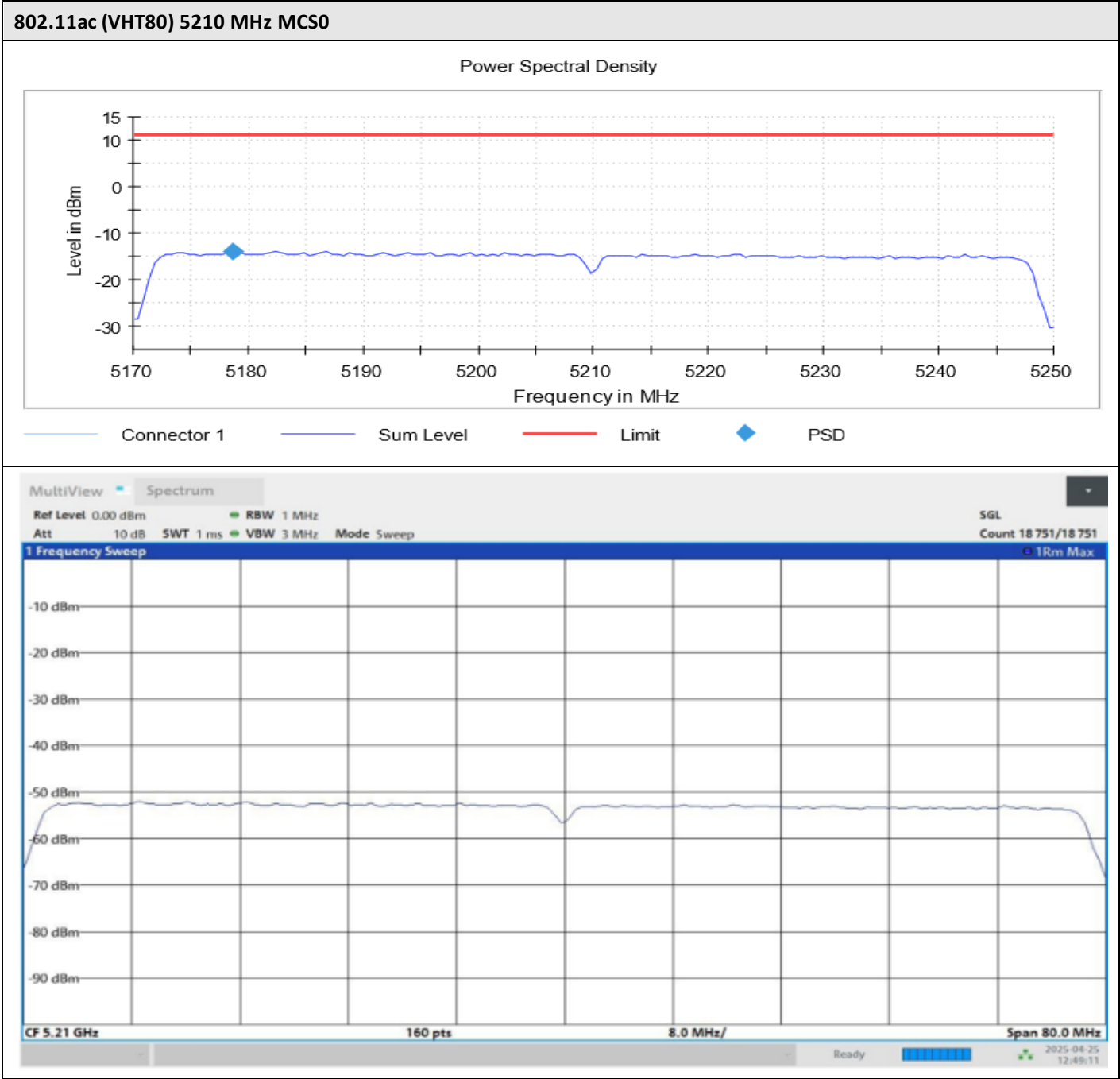
Mode	Data Rate	PSD (dBm) 5190 MHz	PSD (dBm) 5230 MHz	Limit (dBm)	Power Setting (dBm)
802.11ac (VHT40)	MCS0	-9.300	-9.691	11.0	5

802.11a (VHT20) 5180 MHz MCS0

Power Spectral Density



Mode	Data Rate	PSD (dBm) 5210 MHz	Limit (dBm)	Power Setting (dBm)
802.11ac (VHT80)	MCS0	-13.987	11.0	3



RSS-247

802.11a

Data Rate	PSD(dBm) 5180MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
6 Mbps	-6.335	2.67	-3.665	10.0	5
Data Rate	PSD(dBm) 5200MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
6 Mbps	-6.487	2.67	-3.817	10.0	5
Data Rate	PSD(dBm) 5240MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
6 Mbps	-7.088	2.67	-4.418	10.0	5

802.11n (HT20)

Data Rate	PSD(dBm) 5180MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	-6.125	2.67	-3.455	10.0	5
Data Rate	PSD(dBm) 5200MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	-6.437	2.67	-3.767	10.0	5
Data Rate	PSD(dBm) 5240MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	-6.640	2.67	-3.97	10.0	5

802.11n (HT40)

Data Rate	PSD(dBm) 5190MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	-9.282	2.67	-6.612	10.0	5
Data Rate	PSD(dBm) 5230MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	-9.857	2.67	-7.187	10.0	5

802.11ac (VHT20)

Data Rate	PSD(dBm) 5180MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	-5.994	2.67	-3.324	10.0	5
Data Rate	PSD(dBm) 5200MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	-6.046	2.67	-3.376	10.0	5
Data Rate	PSD(dBm) 5240MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	-6.553	2.67	-3.883	10.0	5

802.11ac (VHT40)

Data Rate	PSD(dBm) 5190MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	-9.300	2.67	-6.63	10.0	5
Data Rate	PSD(dBm) 5230MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	-9.691	2.67	-7.021	10.0	5

802.11ac (VHT80)

Data Rate	PSD(dBm) 5210MHz	Antenna Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Power Setting (dBm)
MCS0	-13.987	2.67	-11.317	10.0	3

4.4.3 DTS Bandwidth 6dB

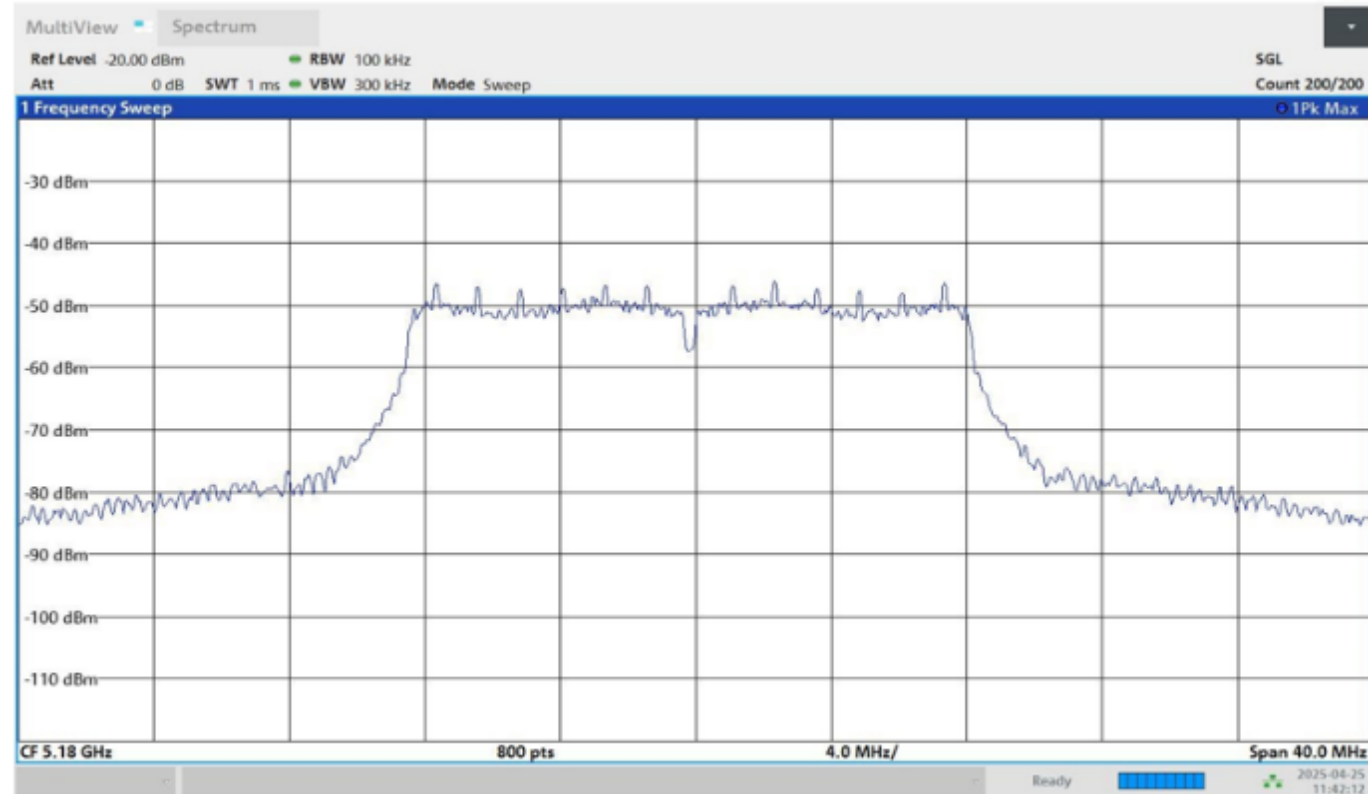
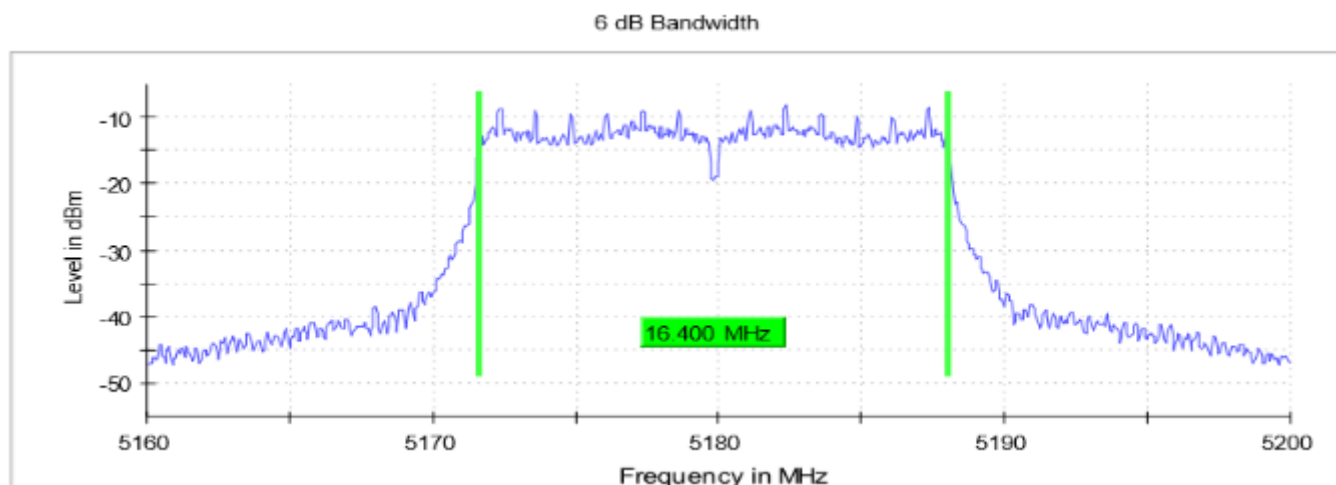
FCC and RSS-247

Test according to FCC title 47 part 15 §15.407(a) (e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 Section C.2 and ANSI C63.10-2013, ISERC RSS-247 6.2.4(1)

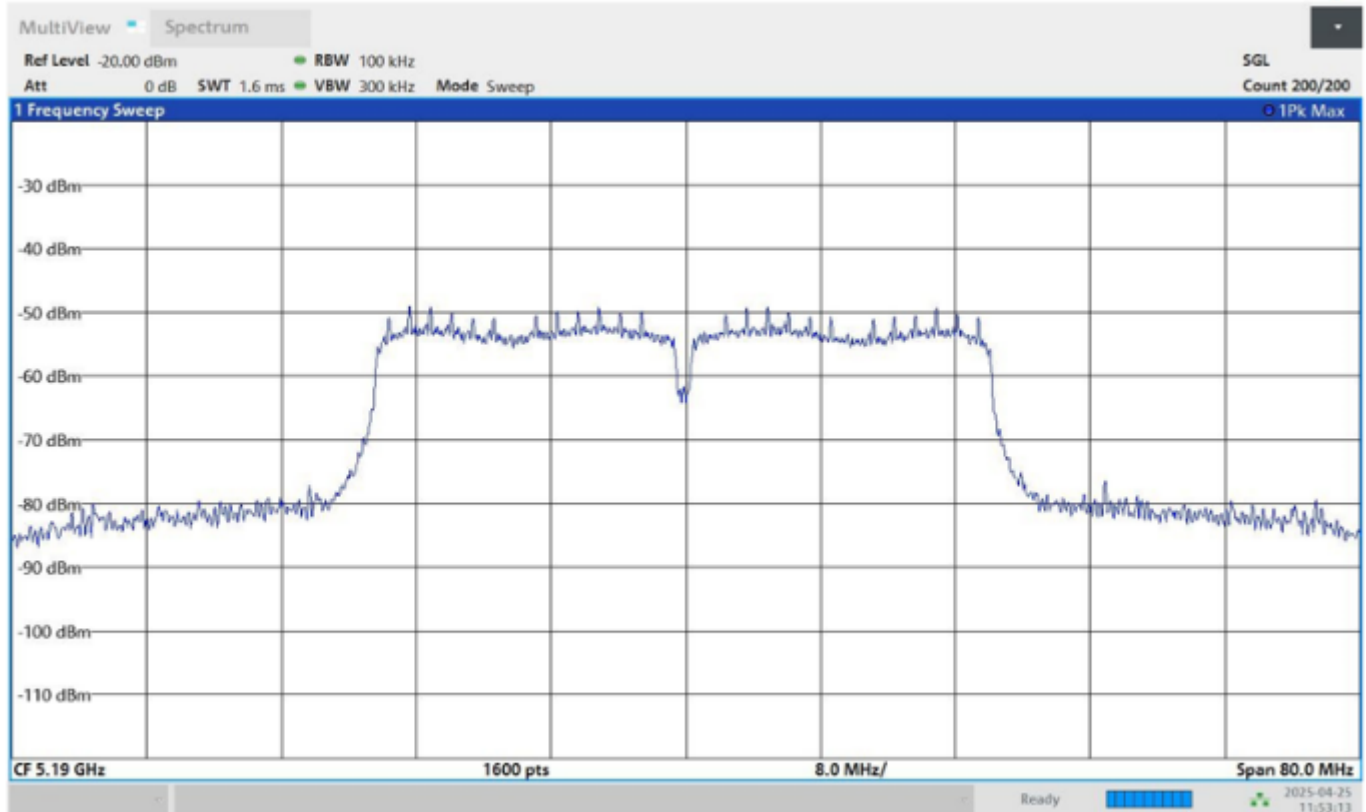
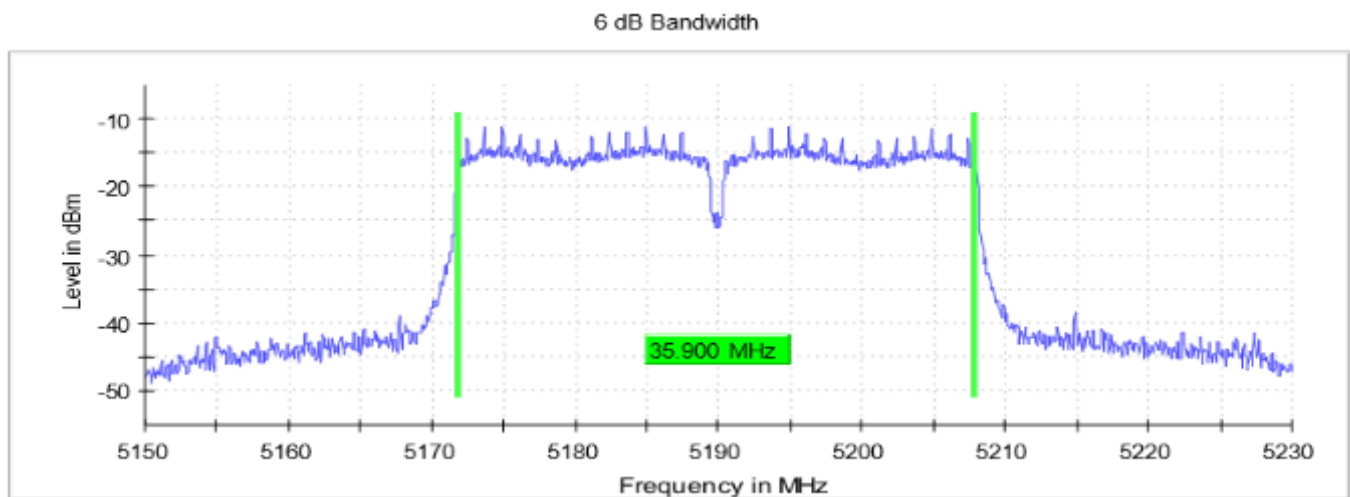
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

Data Rate	DUT Frequency (MHz)	Bandwidth (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Minimum Limit (MHz)
802.11a 6Mbps	5180.000000	16.400000	5171.625000	5188.025000	0.5
802.11n (HT20) MCS0	5180.000000	17.650000	5170.975000	5188.625000	0.5
802.11ac (VHT20) MCS0	5180.000000	17.650000	5170.975000	5188.625000	0.5
802.11n (HT40) MCS0	5190.000000	35.900000	5171.925000	5207.825000	0.5
802.11ac (VHT40) MCS0	5190.000000	35.750000	5171.925000	5207.675000	0.5
802.11ac (VHT80) MCS0	5210.000000	76.450000	5171.625000	5248.075000	0.5
802.11a 6Mbps	5200.000000	16.400000	5191.625000	5208.025000	0.5
802.11n (HT20) MCS0	5200.000000	17.650000	5190.975000	5208.625000	0.5
802.11ac (VHT20) MCS0	5200.000000	17.600000	5191.025000	5208.625000	0.5
802.11n (HT40) MCS0	5230.000000	35.900000	5211.925000	5247.825000	0.5
802.11ac (VHT40) MCS0	5230.000000	35.750000	5211.925000	5247.675000	0.5
802.11a 6Mbps	5240.000000	16.400000	5231.625000	5248.025000	0.5
802.11n (HT20) MCS0	5240.000000	17.650000	5230.975000	5248.625000	0.5
802.11ac (VHT20) MCS0	5240.000000	17.650000	5230.975000	5248.625000	0.5

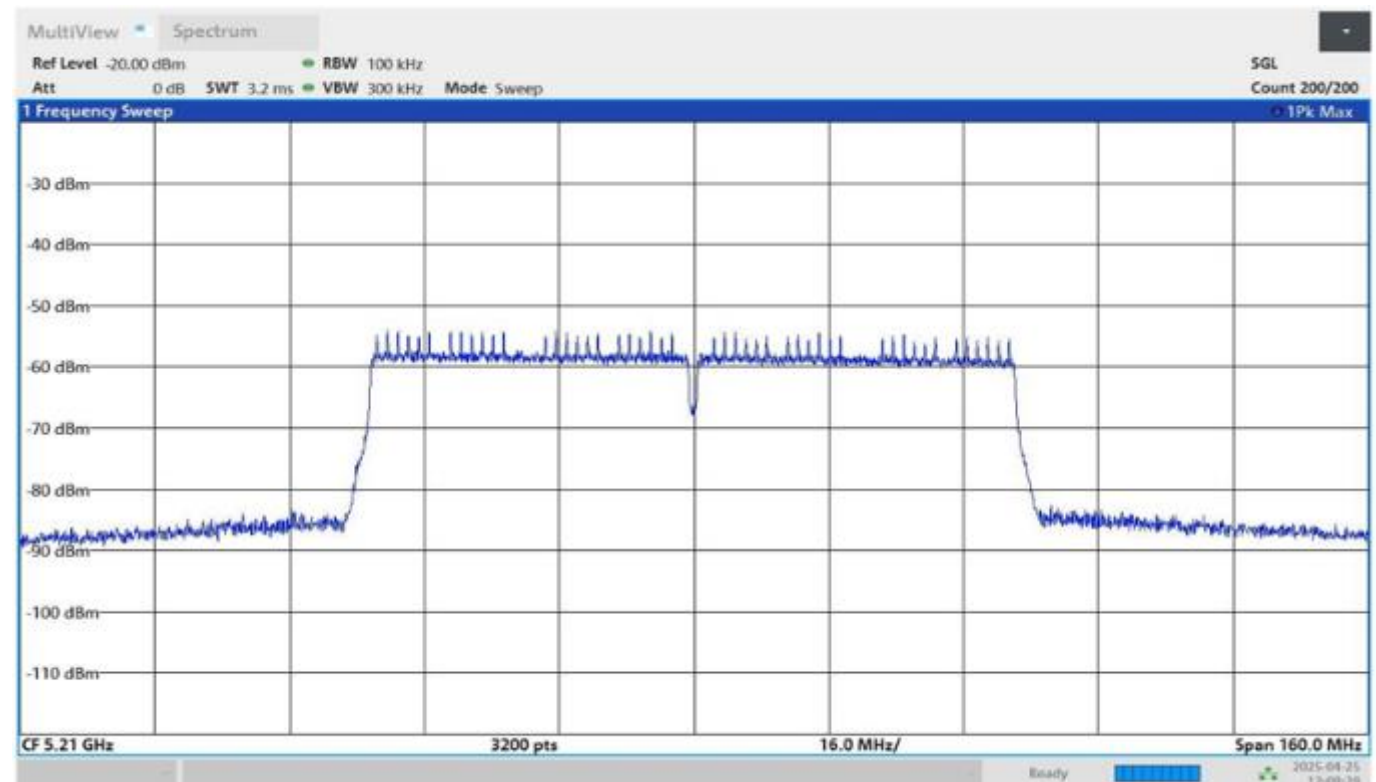
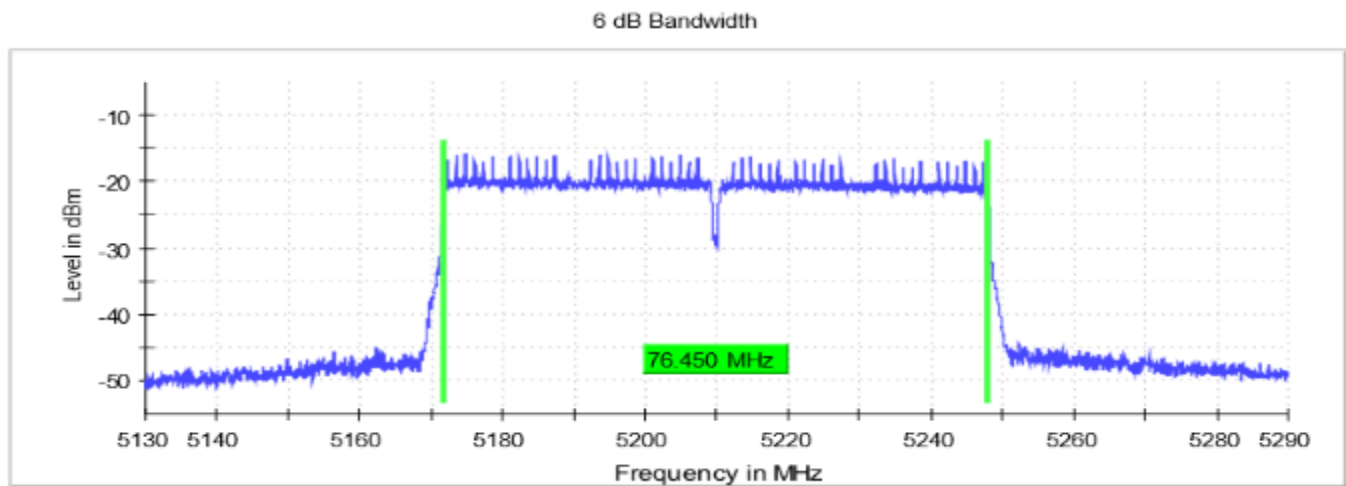
802.11a 5180MHz 6Mbps



802.11n (HT40) 5190MHz MCS0



802.11ac (VHT80) 5210MHz MCS0



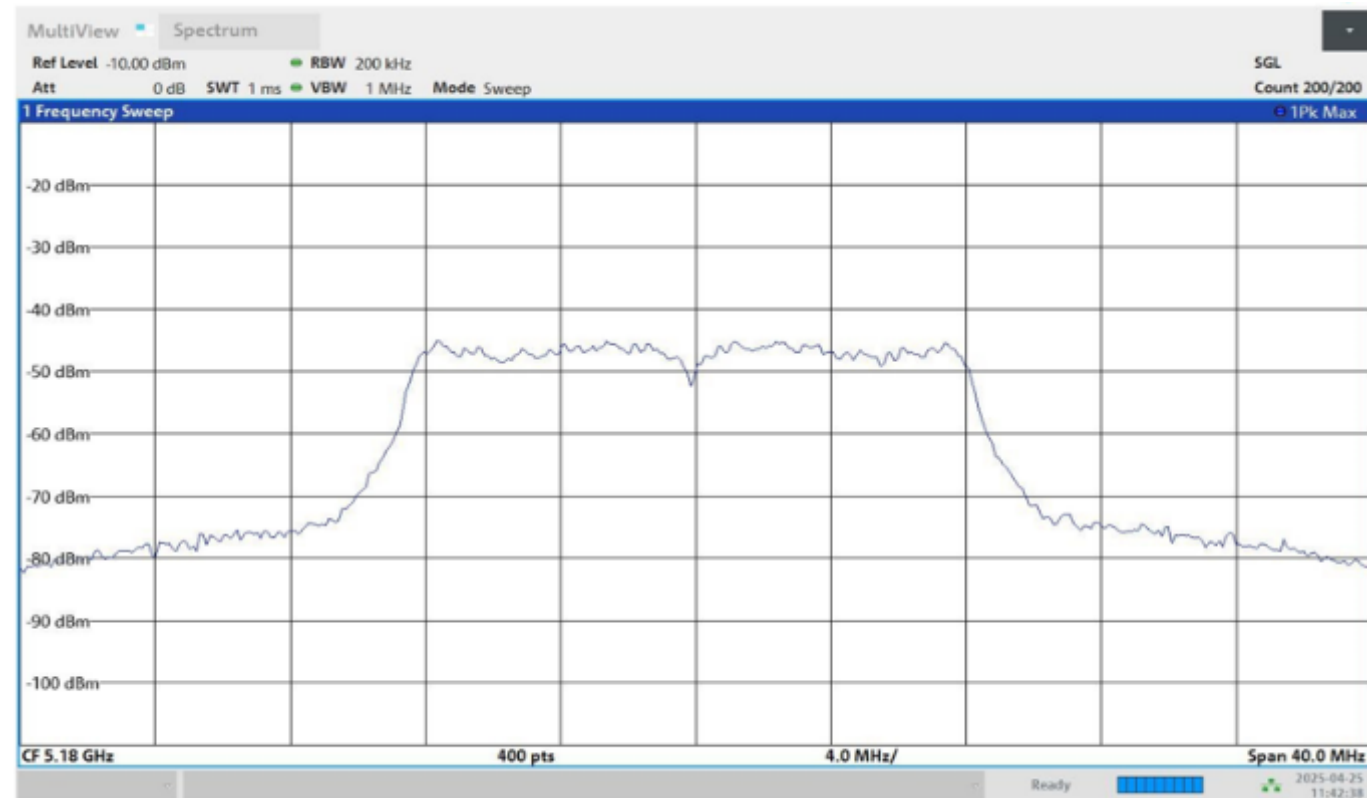
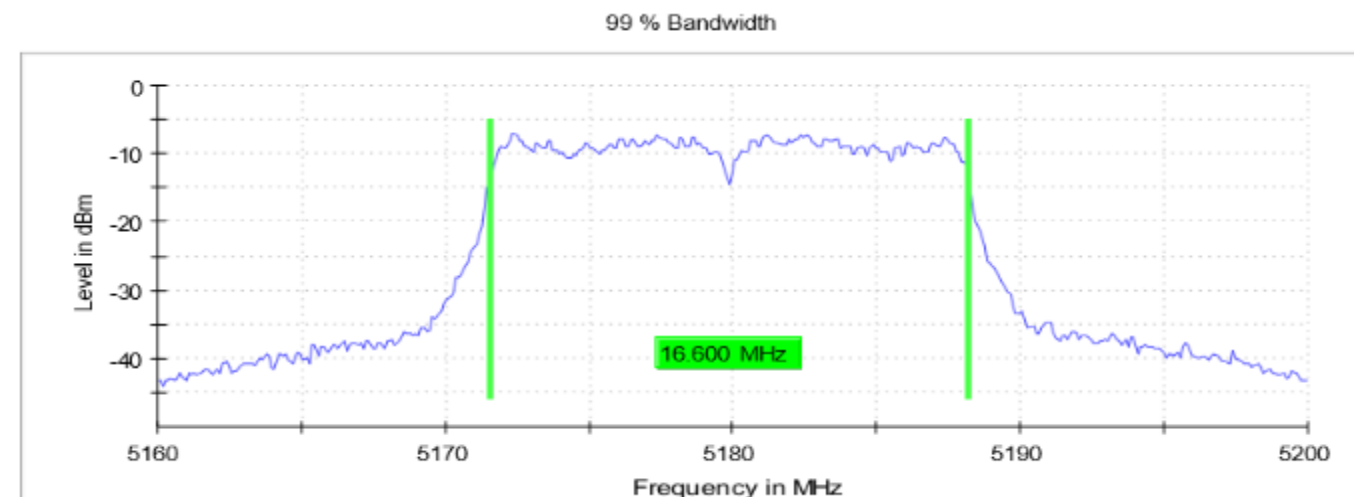
4.4.4 Occupied Channel Bandwidth

Test according to RSS-GEN Section 6.7, KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013.

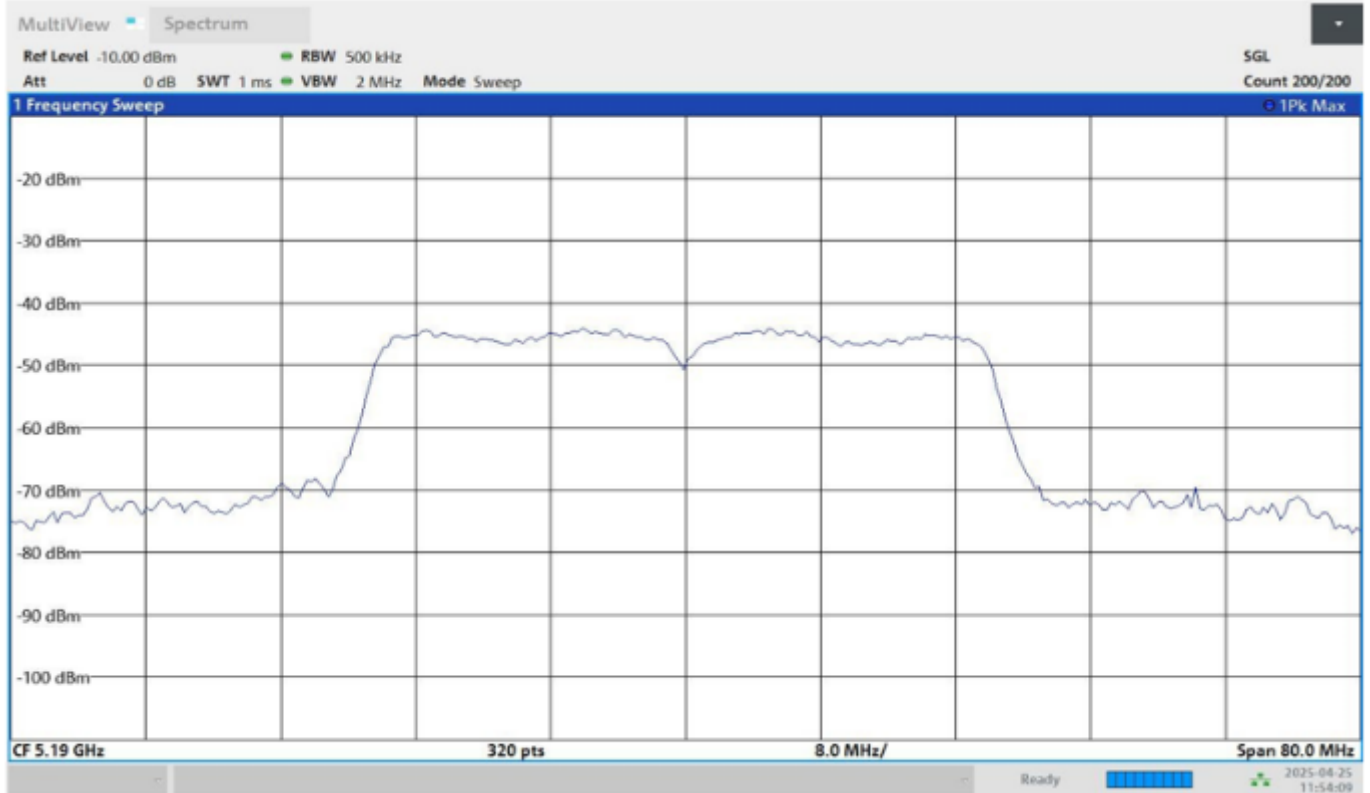
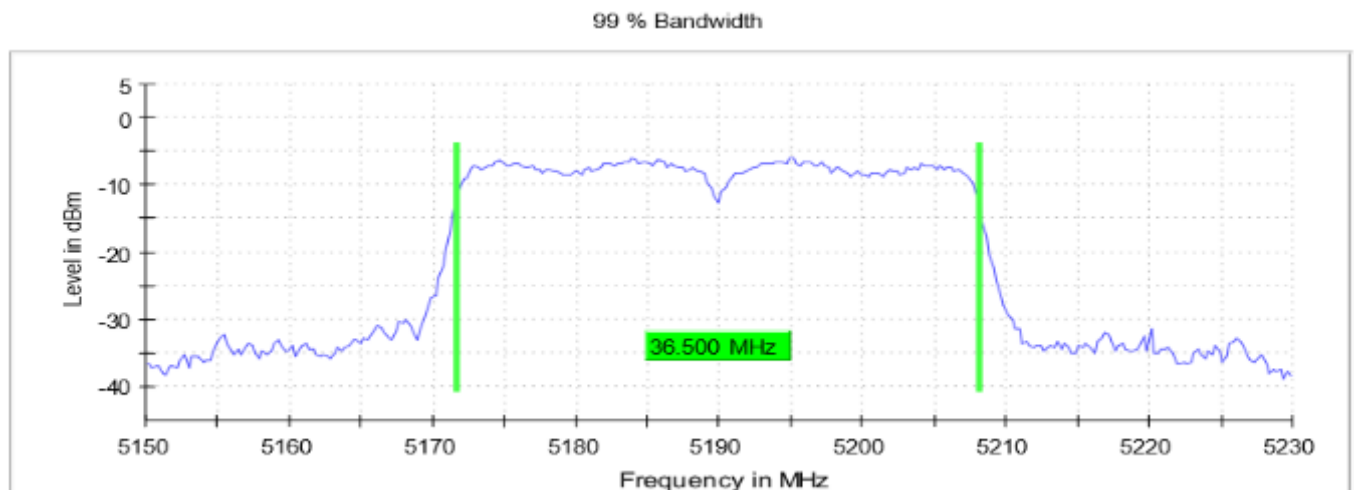
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

Data Rate	DUT Frequency (MHz)	Bandwidth (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Band Limit (MHz)
802.11a 6Mbps	5180.000000	16.600000	5171.550000	5188.150000	5150-5250
802.11n (HT20) MCS0	5180.000000	17.700000	5171.050000	5188.750000	5150-5250
802.11ac (VHT20) MCS0	5180.000000	17.700000	5171.050000	5188.750000	5150-5250
802.11n (HT40) MCS0	5190.000000	36.500000	5171.625000	5208.125000	5150-5250
802.11ac (VHT40) MCS0	5190.000000	36.500000	5171.625000	5208.125000	5150-5250
802.11ac (VHT80) MCS0	5210.000000	77.000000	5171.250000	5248.250000	5150-5250
802.11a 6Mbps	5200.000000	16.700000	5191.550000	5208.250000	5150-5250
802.11n (HT20) MCS0	5200.000000	17.700000	5191.050000	5208.750000	5150-5250
802.11ac (VHT20) MCS0	5200.000000	17.700000	5191.050000	5208.750000	5150-5250
802.11n (HT40) MCS0	5230.000000	36.500000	5211.625000	5248.125000	5150-5250
802.11ac (VHT40) MCS0	5230.000000	36.500000	5211.625000	5248.125000	5150-5250
802.11a 6Mbps	5240.000000	16.700000	5231.550000	5248.250000	5150-5250
802.11n (HT20) MCS0	5240.000000	17.700000	5231.050000	5248.750000	5150-5250
802.11ac (VHT20) MCS0	5240.000000	17.700000	5231.050000	5248.750000	5150-5250

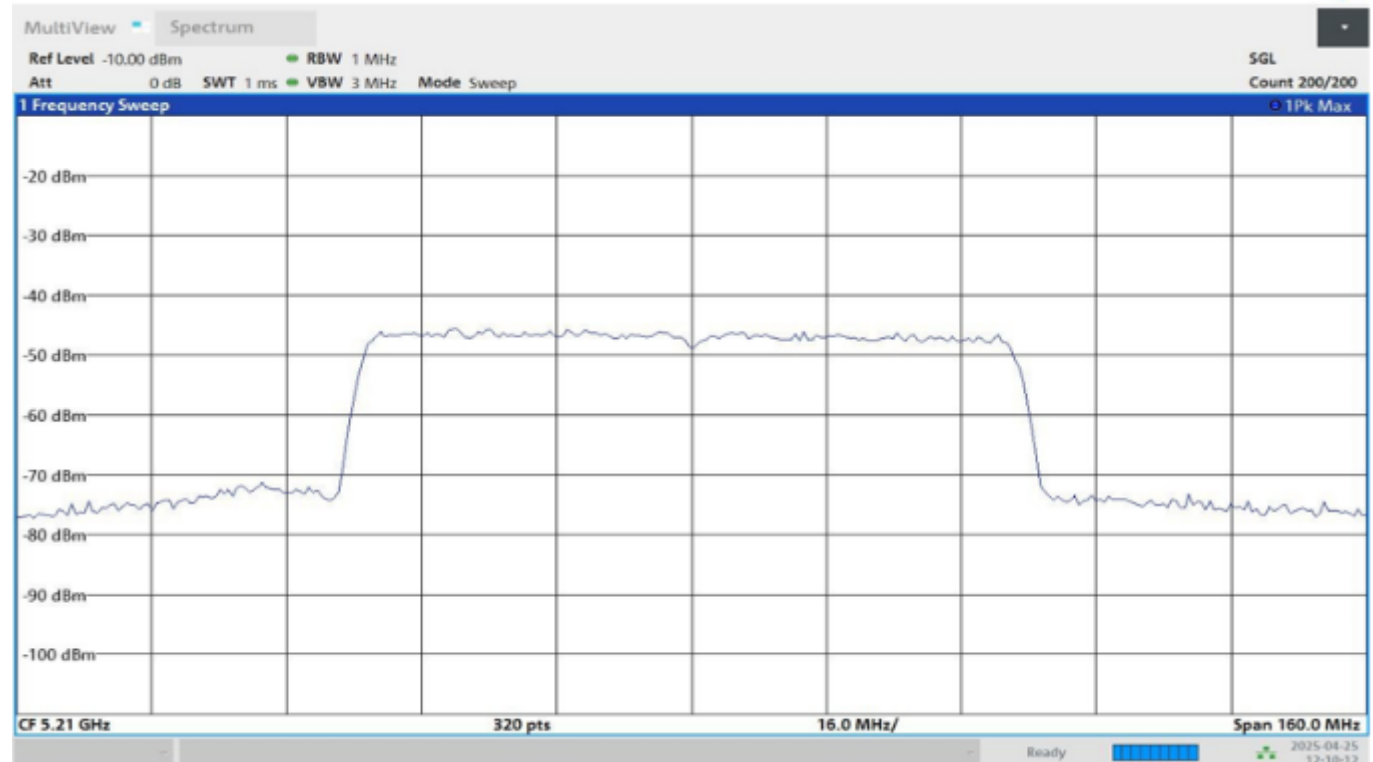
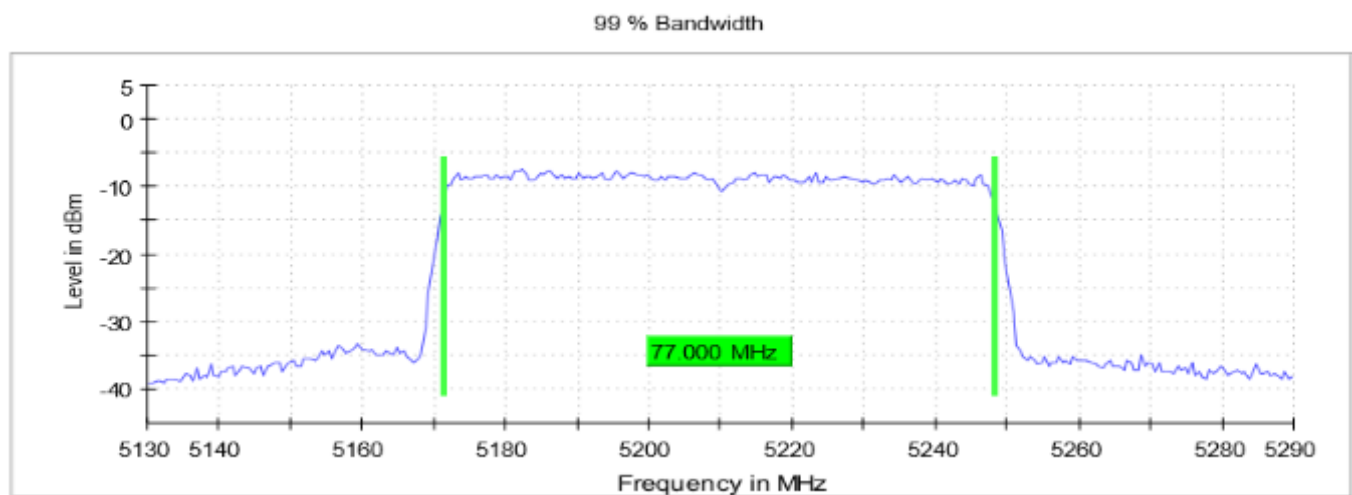
802.11a 5180MHz 6Mbps



802.11n (HT40) 5190MHz MCS0



802.11ac (VHT80) 5210MHz MCS0



4.5 UNII-3

Mode	Channel	Frequency
802.11a 802.11n(HT20) 802.11ac(VHT20)	149	5745
802.11n(HT40) 802.11ac(VHT40)	151	5755
802.11ac(VHT80)	155	5775
802.11a 802.11n(HT20) 802.11ac(VHT20)	157	5785
802.11n(HT40) 802.11ac(VHT40)	159	5795
802.11a 802.11n(HT20) 802.11ac(VHT20)	165	5825

Notes:- Output power measurements performed on all supported worst data rate of each supported 802.11 mode.

Power Settings

802.11a		802.11n (HT20)		802.11ac (VHT20)	
Channel	Power Setting	Channel	Power Setting	Channel	Power Setting
149	5	149	5	149	5
157	5	157	5	157	5
165	5	165	5	165	5

802.11n (HT40)		802.11ac (VHT40)	
Channel	Power Setting	Channel	Power Setting
151	5	151	5
159	5	159	5

802.11ac (VHT80)	
Channel	Power Setting
155	3

4.5.1 RF Output Power

FCC and RSS-247

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013 (In Reference to KDB 789033 E.3.B)

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

4.5.1.1 R1 INT ER 3B HW4

802.11a

Data Rate	Gated RMS (dBm) 5745 MHz	Gated RMS (dBm) 5785 MHz	Gated RMS (dBm) 5825 MHz	Limit (dBm)	Power Setting (dBm)
6 Mbps	6.599	5.803	8.104	30.0	5

802.11n (HT20)

Data Rate	Gated RMS (dBm) 5745 MHz	Gated RMS (dBm) 5785 MHz	Gated RMS (dBm) 5825 MHz	Limit (dBm)	Power Setting (dBm)
MCS0	6.723	6.046	8.335	30.0	5

802.11ac (VHT20)

Data Rate	Gated RMS (dBm) 5745 MHz	Gated RMS (dBm) 5785 MHz	Gated RMS (dBm) 5825 MHz	Limit (dBm)	Power Setting (dBm)
MCS0	6.756	6.028	8.372	30.0	5

802.11n (HT40)

Data Rate	Gated RMS (dBm) 5755 MHz	Gated RMS (dBm) 5795 MHz	Limit (dBm)	Power Setting (dBm)
MCS0	6.194	5.483	30.0	5

802.11ac (VHT40)

Data Rate	Gated RMS (dBm) 5755 MHz	Gated RMS (dBm) 5795 MHz	Limit (dBm)	Power Setting (dBm)
MCS0	6.214	5.348	30.0	5

802.11ac (VHT80)

Data Rate	Gated RMS (dBm) 5775 MHz	Limit (dBm)	Power Setting (dBm)
MCS0	3.853	30.0	3

4.5.1.2 R1 INT RW 3B HW4

802.11a

Data Rate	Gated RMS (dBm) 5745 MHz	Gated RMS (dBm) 5785 MHz	Gated RMS (dBm) 5825 MHz	Limit (dBm)	Power Setting (dBm)
6 Mbps	6.387	5.806	8.056	30.0	5

802.11n (HT20)

Data Rate	Gated RMS (dBm) 5745 MHz	Gated RMS (dBm) 5785 MHz	Gated RMS (dBm) 5825 MHz	Limit (dBm)	Power Setting (dBm)
MCS0	7.037	6.477	8.168	30.0	5

802.11ac (VHT20)

Data Rate	Gated RMS (dBm) 5745 MHz	Gated RMS (dBm) 5785 MHz	Gated RMS (dBm) 5825 MHz	Limit (dBm)	Power Setting (dBm)
MCS0	6.922	6.339	7.704	30.0	5

802.11n (HT40)

Data Rate	Gated RMS (dBm) 5755 MHz	Gated RMS (dBm) 5795 MHz	Limit (dBm)	Power Setting (dBm)
MCS0	6.623	6.012	30.0	5

802.11ac (VHT40)

Data Rate	Gated RMS (dBm) 5755 MHz	Gated RMS (dBm) 5795 MHz	Limit (dBm)	Power Setting (dBm)
MCS0	6.418	5.499	30.0	5

802.11ac (VHT80)

Data Rate	Gated RMS (dBm) 5775 MHz	Limit (dBm)	Power Setting (dBm)
MCS0	4.215	30.0	3

4.5.2 Power Spectral Density

FCC and RSS-247

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F with test method SA-1 and ANSI C63.10-2013

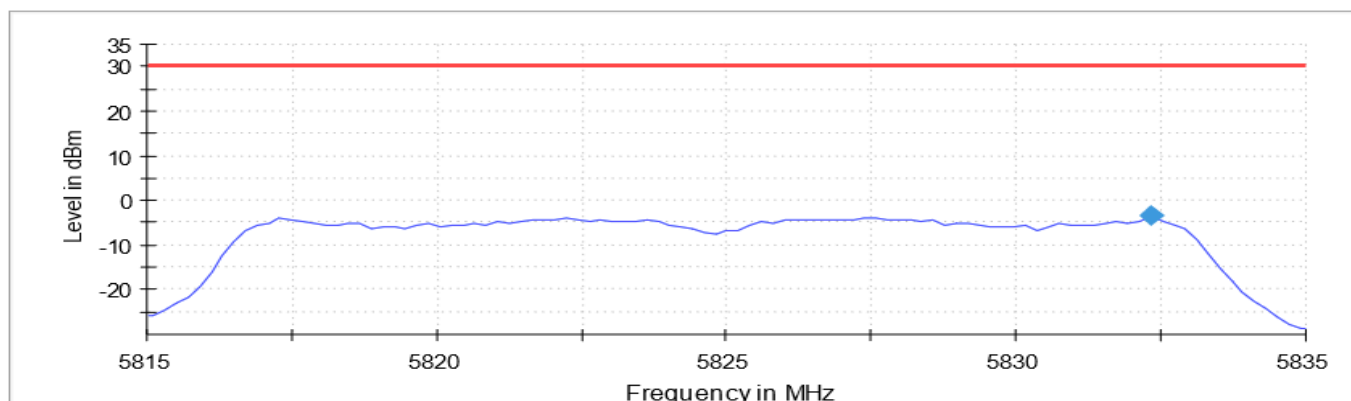
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1.3 dB

802.11a 6Mbps

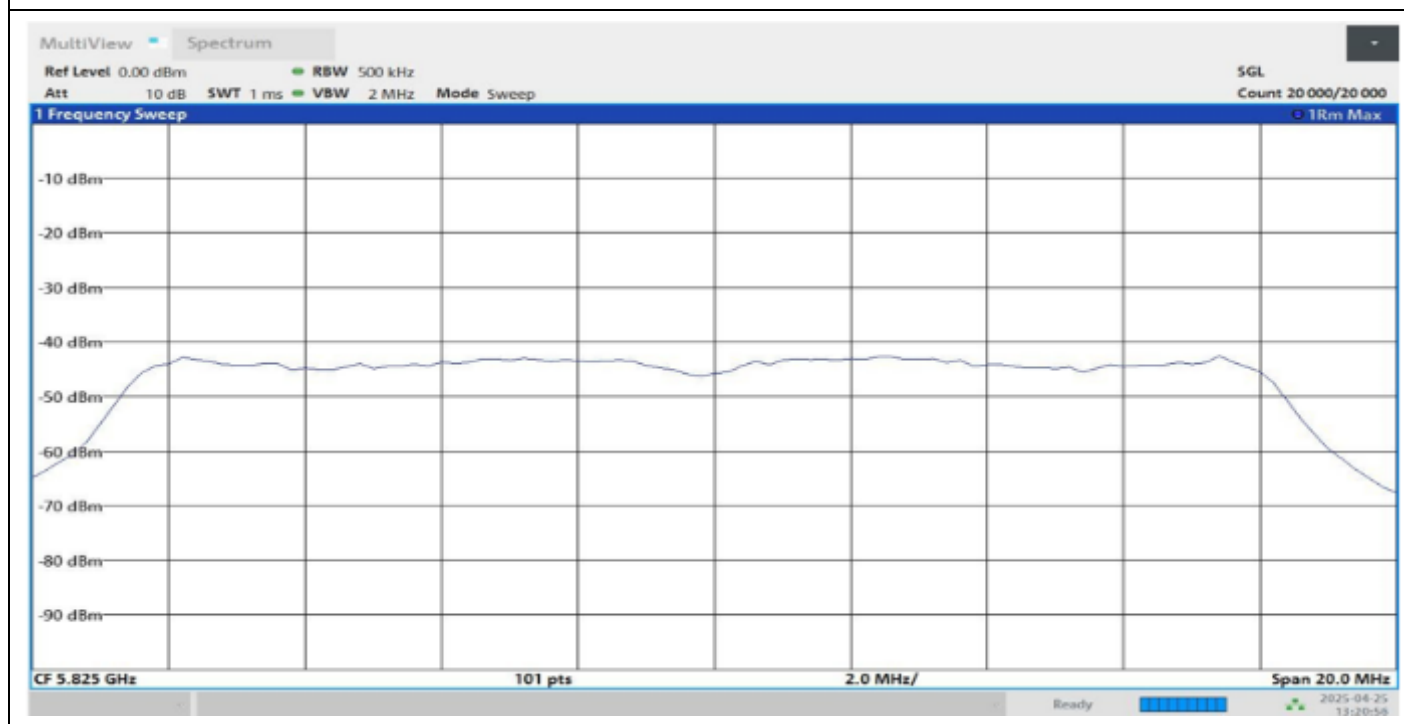
Data Rate	PSD (dBm) 5745 MHz	PSD (dBm) 5785 MHz	PSD (dBm) 5825 MHz	Limit (dBm)
6Mbps	-5.078	-5.952	-3.728	30.0

802.11a 5825 MHz 6Mbps

Power Spectral Density



Connector 1 Sum Level Limit PSD



802.11n (HT20)

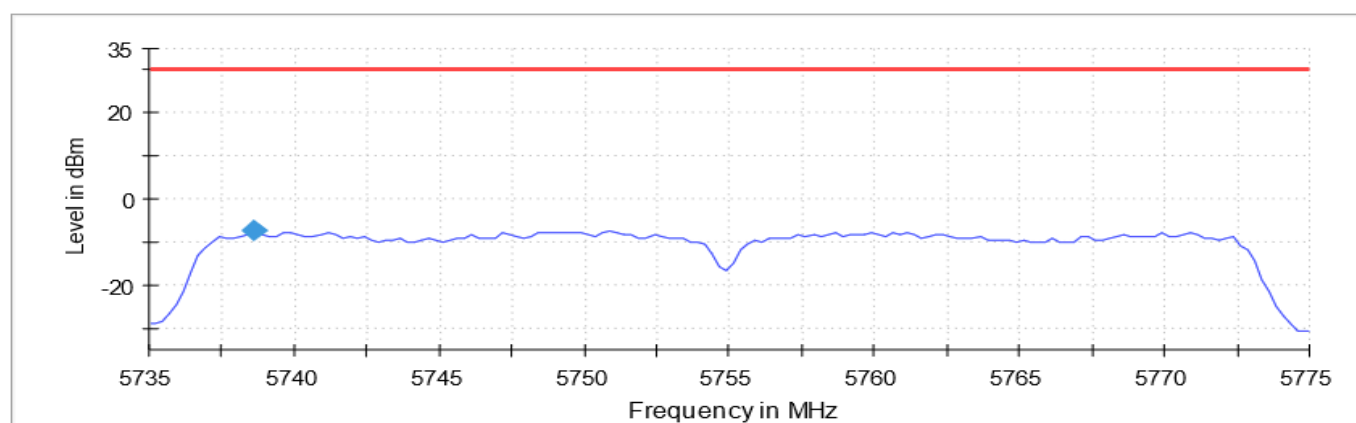
Data Rate	PSD (dBm) 5745 MHz	PSD (dBm) 5785 MHz	PSD (dBm) 5825 MHz	Limit (dBm)
MCS0	-5.086	-5.850	-3.810	30.0

802.11n (HT40)

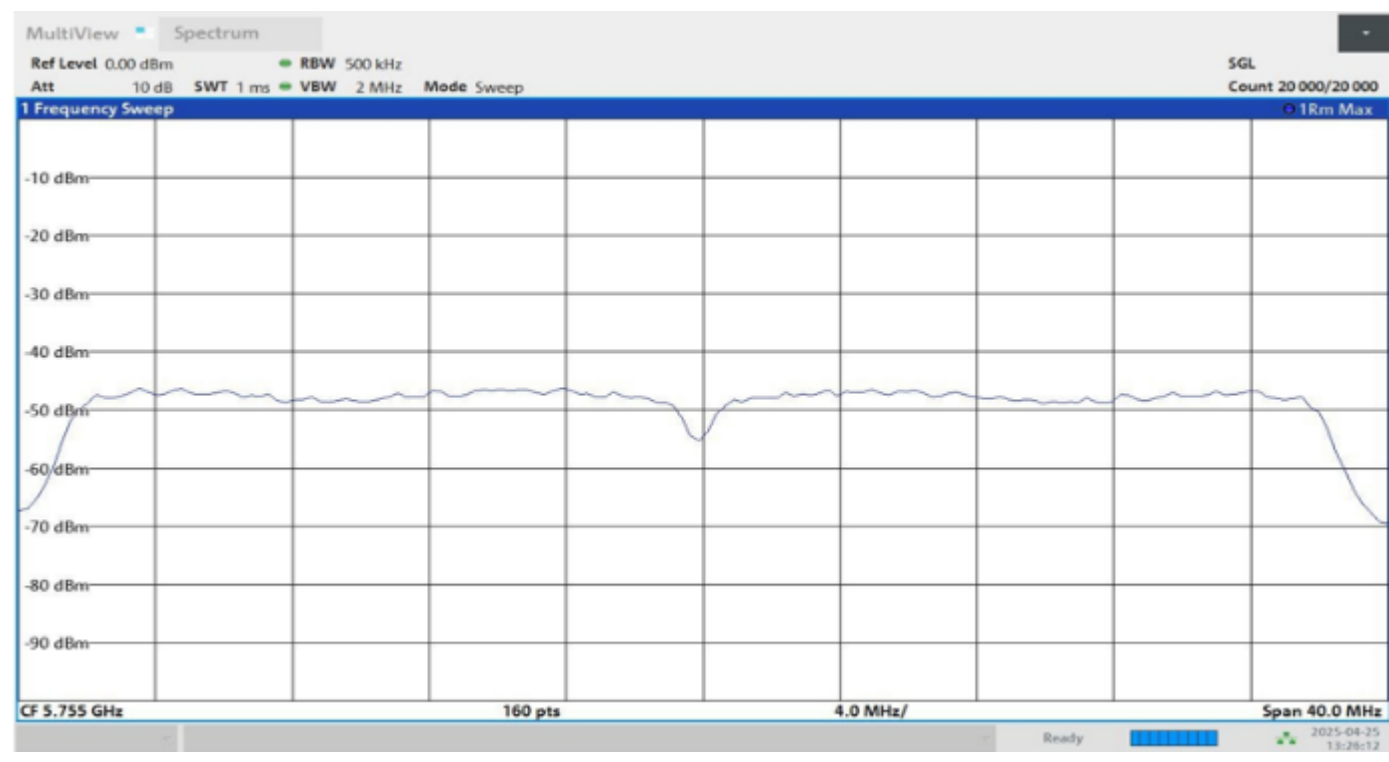
Data Rate	PSD (dBm) 5755 MHz	PSD (dBm) 5795 MHz	Limit (dBm)
MCS0	-7.534	-8.063	30.0

802.11n (HT40) 5755 MHz MCS0

Power Spectral Density



Connector 1 Sum Level Limit PSD



802.11ac (VHT20)

Data Rate	PSD (dBm) 5745 MHz	PSD (dBm) 5785 MHz	PSD (dBm) 5825 MHz	Limit (dBm)
MCS0	-4.920	-5.913	-3.746	30.0

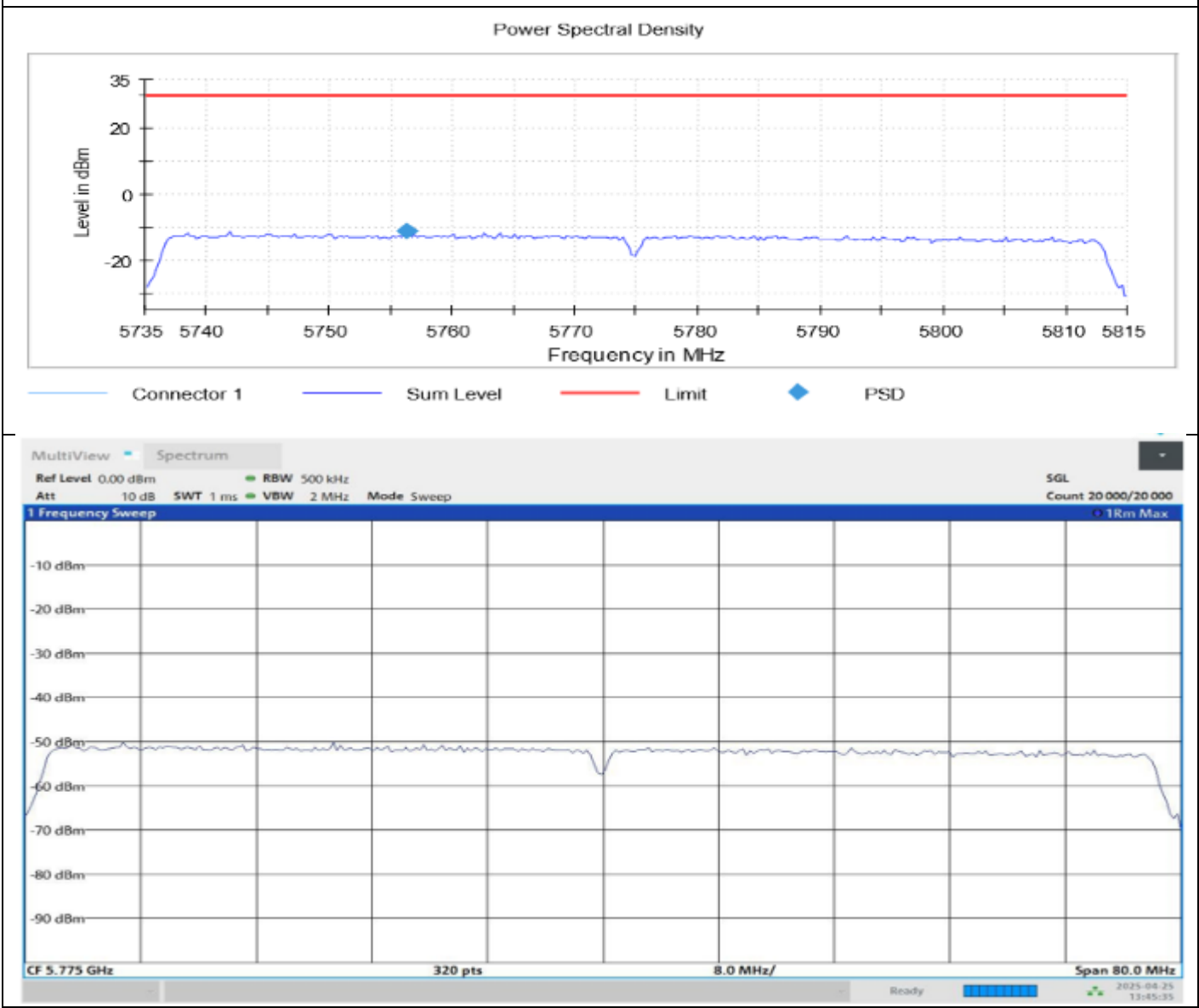
802.11ac (VHT40)

Data Rate	PSD (dBm) 5755 MHz	PSD (dBm) 5795 MHz	Limit (dBm)
MCS0	-7.554	-8.005	30.0

802.11ac (VHT80)

Data Rate	PSD (dBm) 5775 MHz	Limit (dBm)
MCS0	-11.453	30.0

802.11ac (VHT80) 5775 MHz MCS0



4.5.3 DTS Bandwidth 6dB

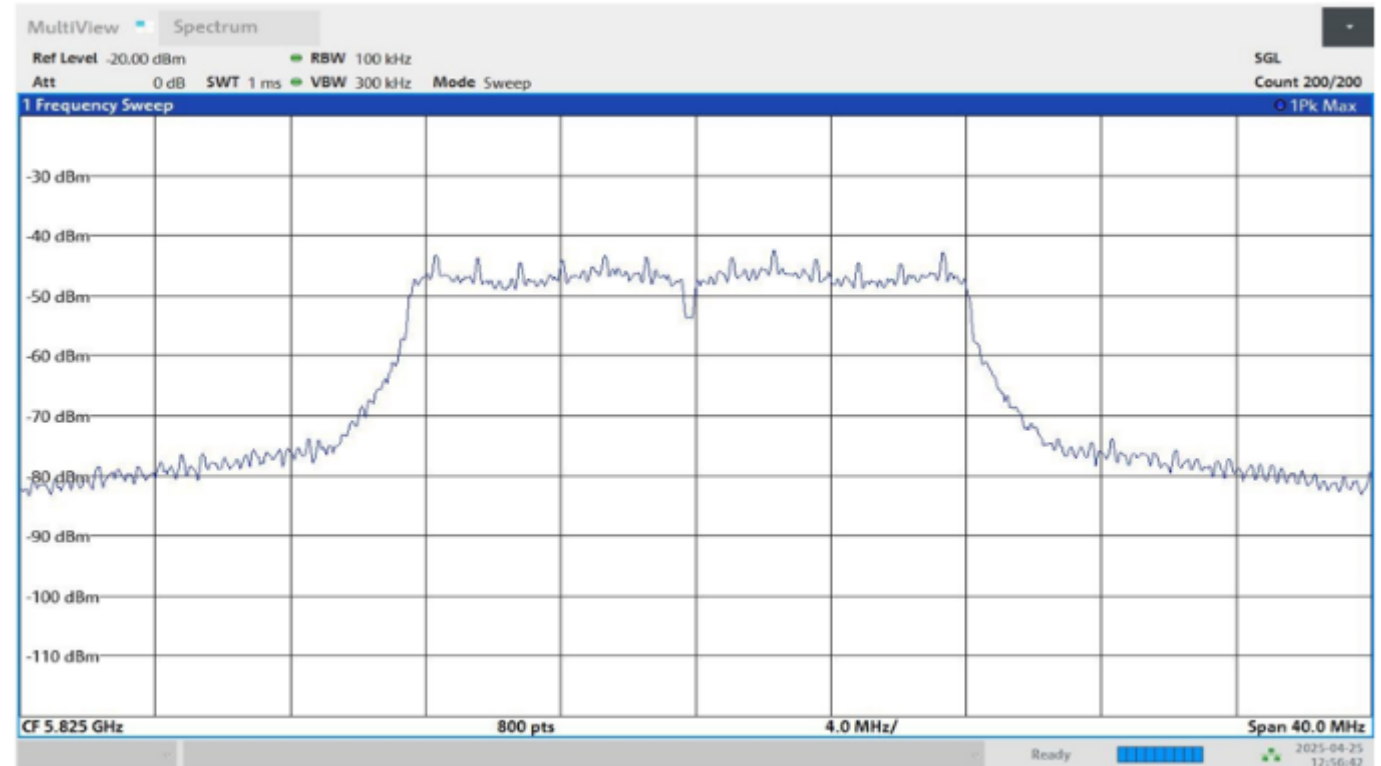
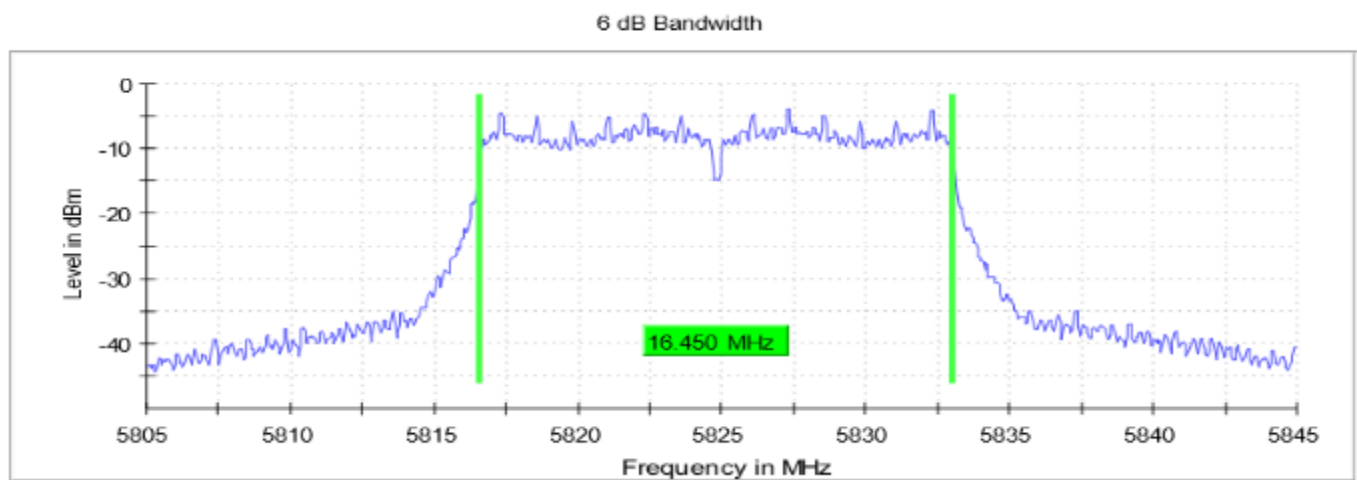
FCC and RSS-247

Test according to FCC title 47 part 15 §15.407(a) (e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 Section C.2 and ANSI C63.10-2013, ISERC RSS-247 6.2.4(1)

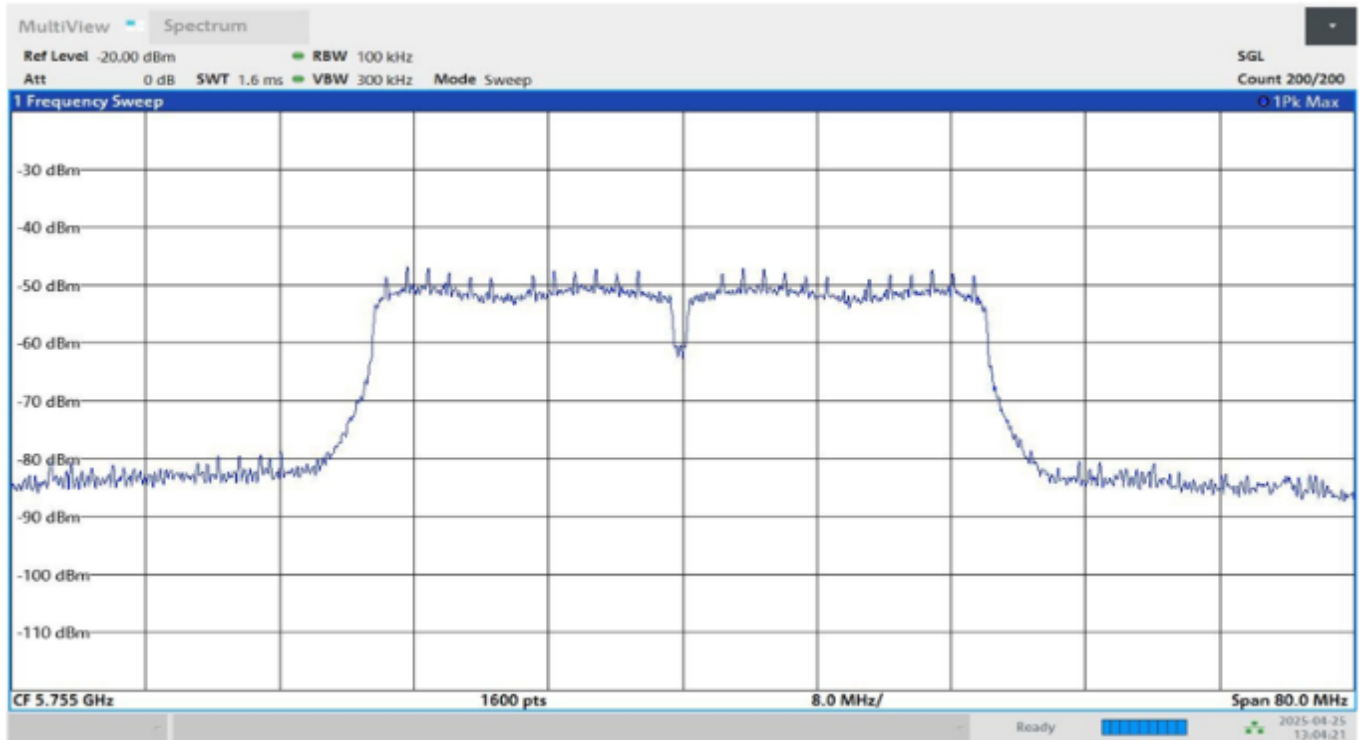
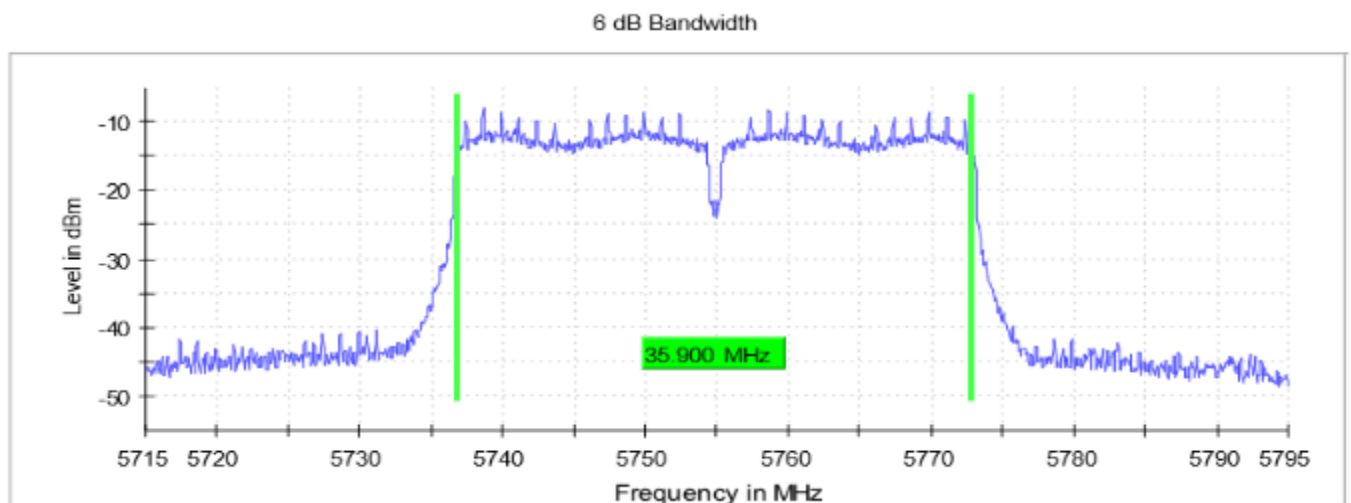
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

Data Rate	DUT Frequency (MHz)	Bandwidth (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Minimum Band Limit (MHz)
802.11a 6Mbps	5745.000000	16.450000	5736.575000	5753.025000	0.500000
802.11n (HT20) MCS0	5745.000000	17.650000	5735.975000	5753.625000	0.500000
802.11ac (VHT20) MCS0	5745.000000	17.650000	5735.975000	5753.625000	0.500000
802.11n (HT40) MCS0	5755.000000	35.900000	5736.875000	5772.775000	0.500000
802.11ac (VHT40) MCS0	5755.000000	35.750000	5736.925000	5772.675000	0.500000
802.11ac (VHT80) MCS0	5775.000000	76.150000	5736.625000	5812.775000	0.500000
802.11a 6Mbps	5785.000000	16.450000	5776.575000	5793.025000	0.500000
802.11n (HT20) MCS0	5785.000000	17.650000	5775.975000	5793.625000	0.500000
802.11ac (VHT20) MCS0	5785.000000	17.650000	5775.975000	5793.625000	0.500000
802.11n (HT40) MCS0	5795.000000	35.800000	5776.875000	5812.675000	0.500000
802.11ac (VHT40) MCS0	5795.000000	35.550000	5776.925000	5812.475000	0.500000
802.11a 6Mbps	5825.000000	16.450000	5816.575000	5833.025000	0.500000
802.11n (HT20) MCS0	5825.000000	17.650000	5815.975000	5833.625000	0.500000
802.11ac (VHT20) MCS0	5825.000000	17.650000	5815.975000	5833.625000	0.500000

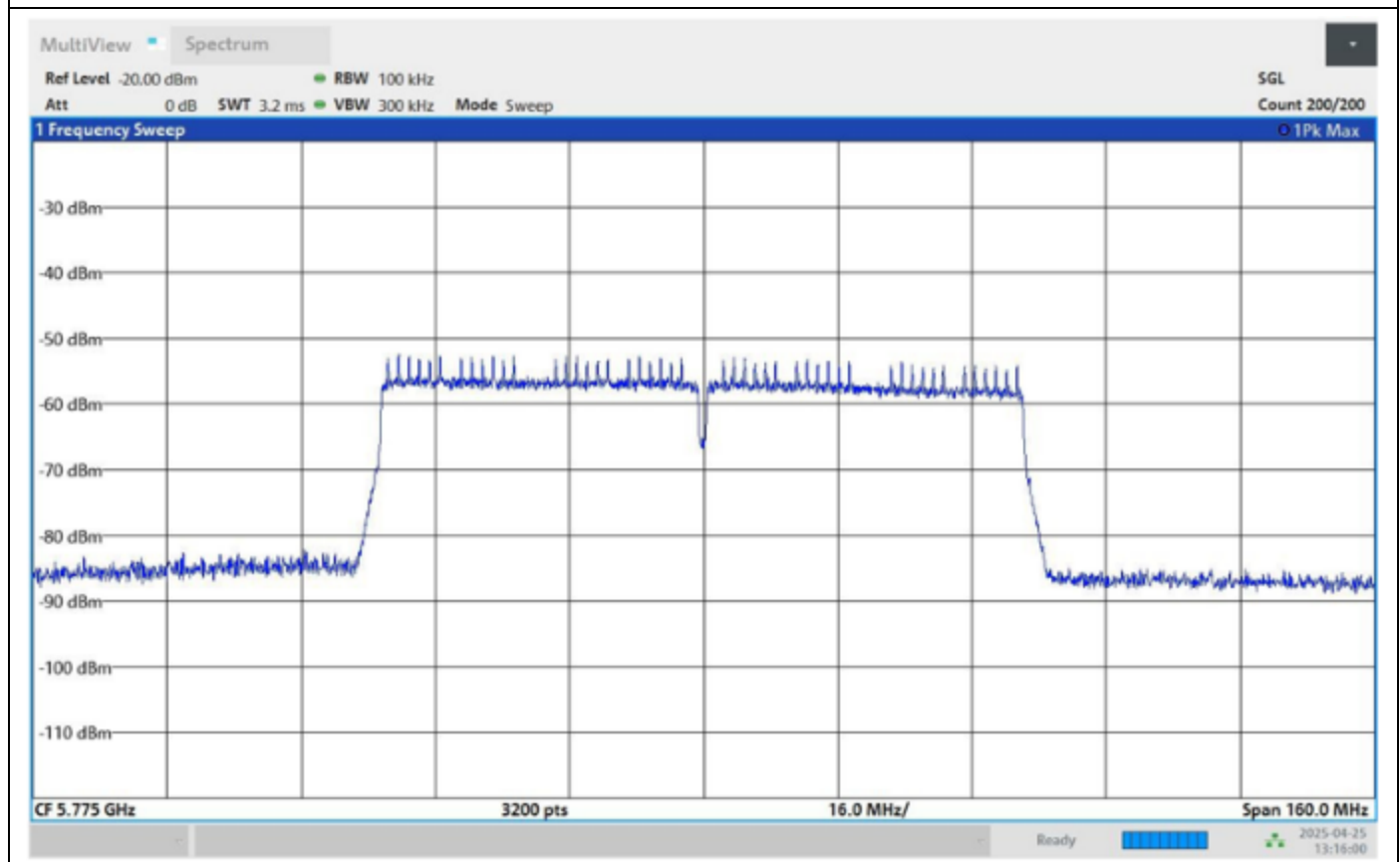
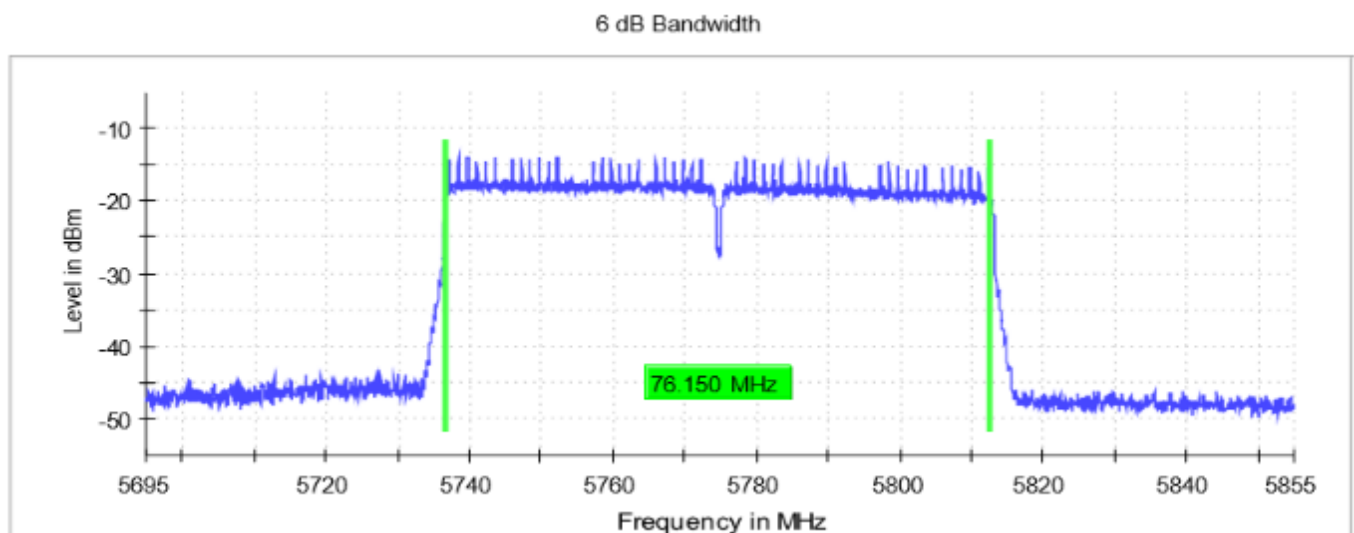
802.11a 5825MHz 6Mbps



802.11n 5755MHz (VHT40) MCS0



802.11ac 5775MHz (VHT80) MCS0



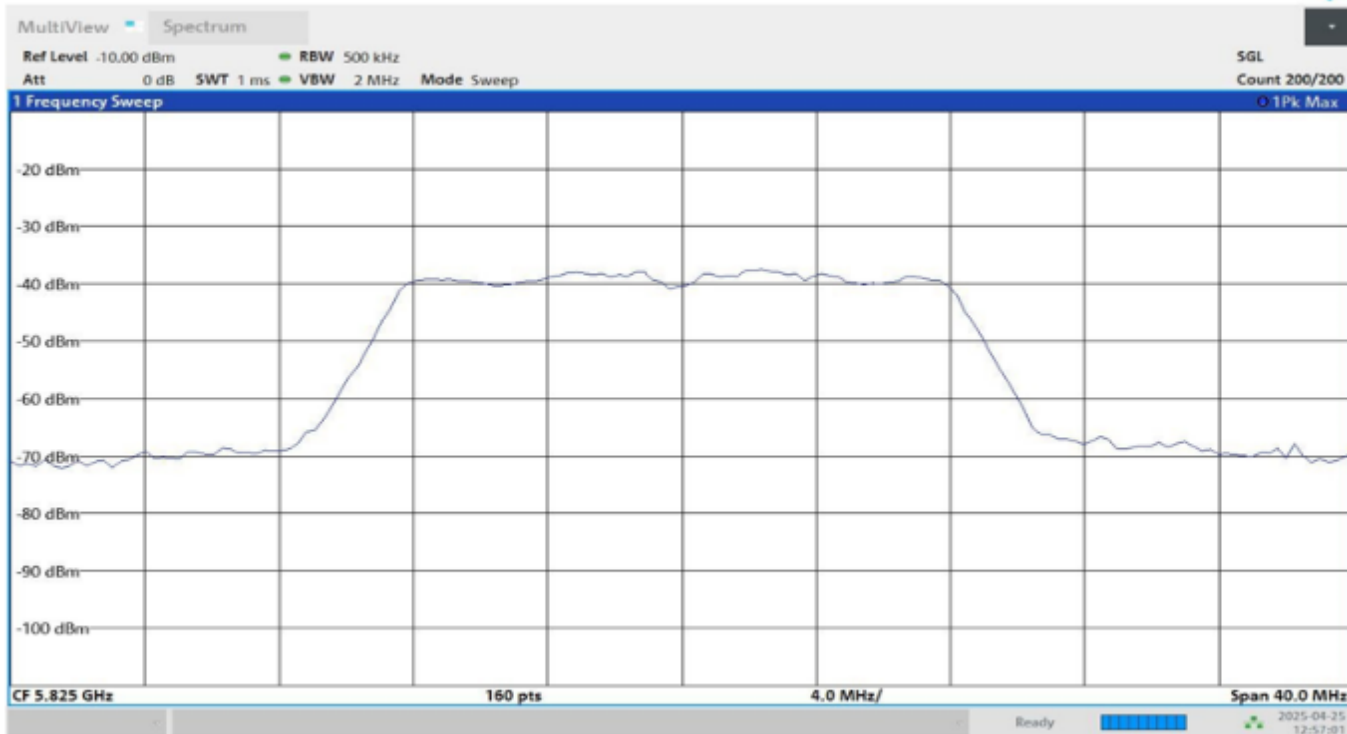
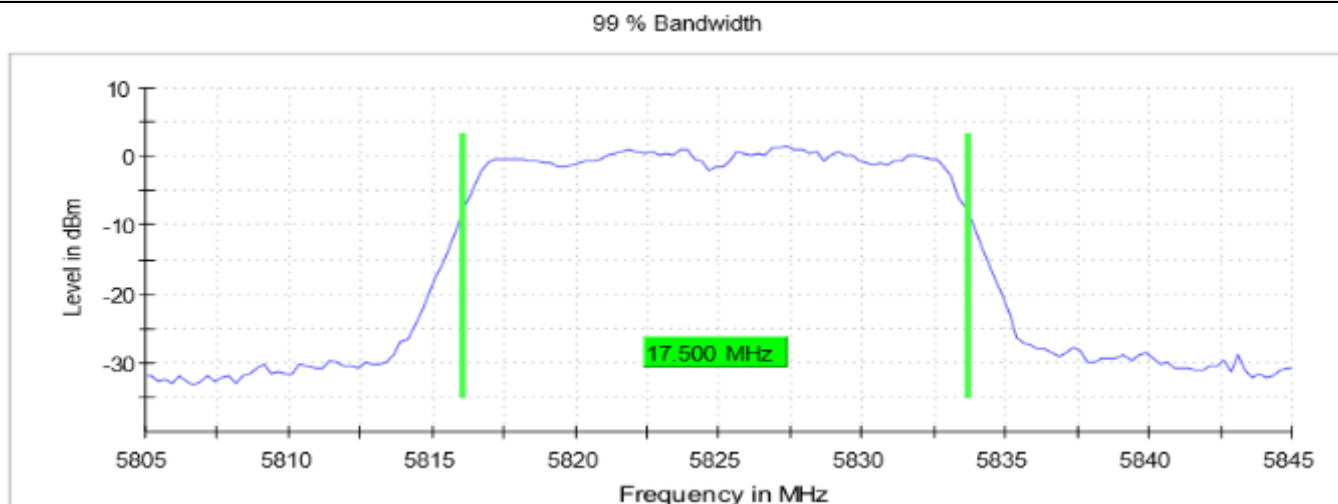
4.5.4 Occupied Channel Bandwidth

Test according to RSS-GEN Section 6.7, KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

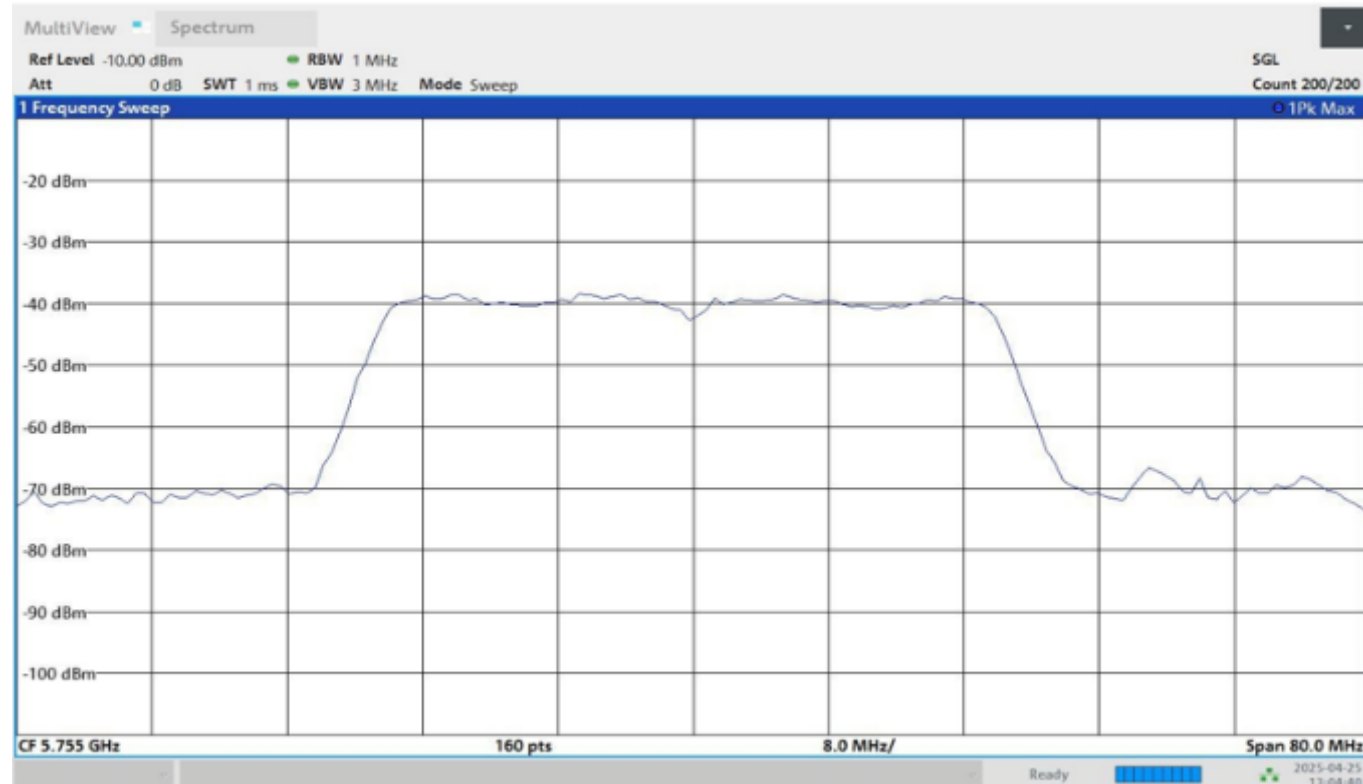
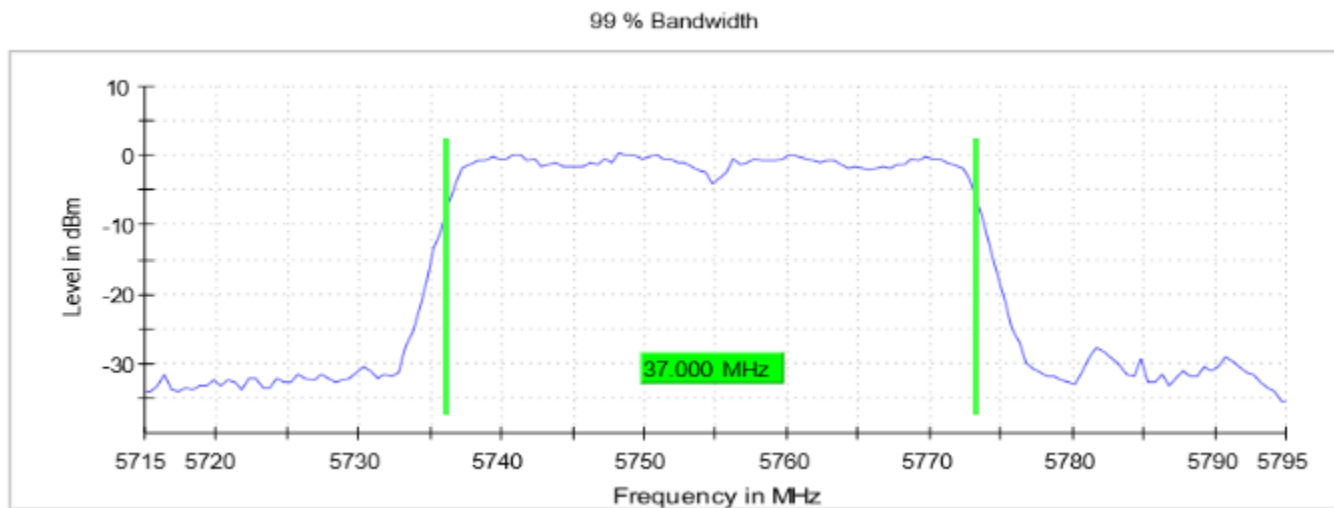
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

Data Rate	DUT Frequency (MHz)	Bandwidth (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Band Limit (MHz)
802.11a 6Mbps	5745.000000	17.500000	5736.125000	5753.625000	5725-5850
802.11n (HT20) MCS0	5745.000000	18.000000	5735.875000	5753.875000	5725-5850
802.11ac (VHT20) MCS0	5745.000000	18.000000	5735.875000	5753.875000	5725-5850
802.11n (HT40) MCS0	5755.000000	37.000000	5736.250000	5773.250000	5725-5850
802.11ac (VHT40) MCS0	5755.000000	37.000000	5736.250000	5773.250000	5725-5850
802.11ac (VHT80) MCS0	5775.000000	78.000000	5735.500000	5813.500000	5725-5850
802.11a 6Mbps	5785.000000	17.500000	5776.125000	5793.625000	5725-5850
802.11n (HT20) MCS0	5785.000000	18.000000	5775.875000	5793.875000	5725-5850
802.11ac (VHT20) MCS0	5785.000000	18.250000	5775.625000	5793.875000	5725-5850
802.11n (HT40) MCS0	5795.000000	37.000000	5776.250000	5813.250000	5725-5850
802.11ac (VHT40) MCS0	5795.000000	37.000000	5776.250000	5813.250000	5725-5850
802.11a 6Mbps	5825.000000	17.500000	5816.125000	5833.625000	5725-5850
802.11n (HT20) MCS0	5825.000000	18.500000	5815.625000	5834.125000	5725-5850
802.11ac (VHT20) MCS0	5825.000000	18.000000	5815.875000	5833.875000	5725-5850

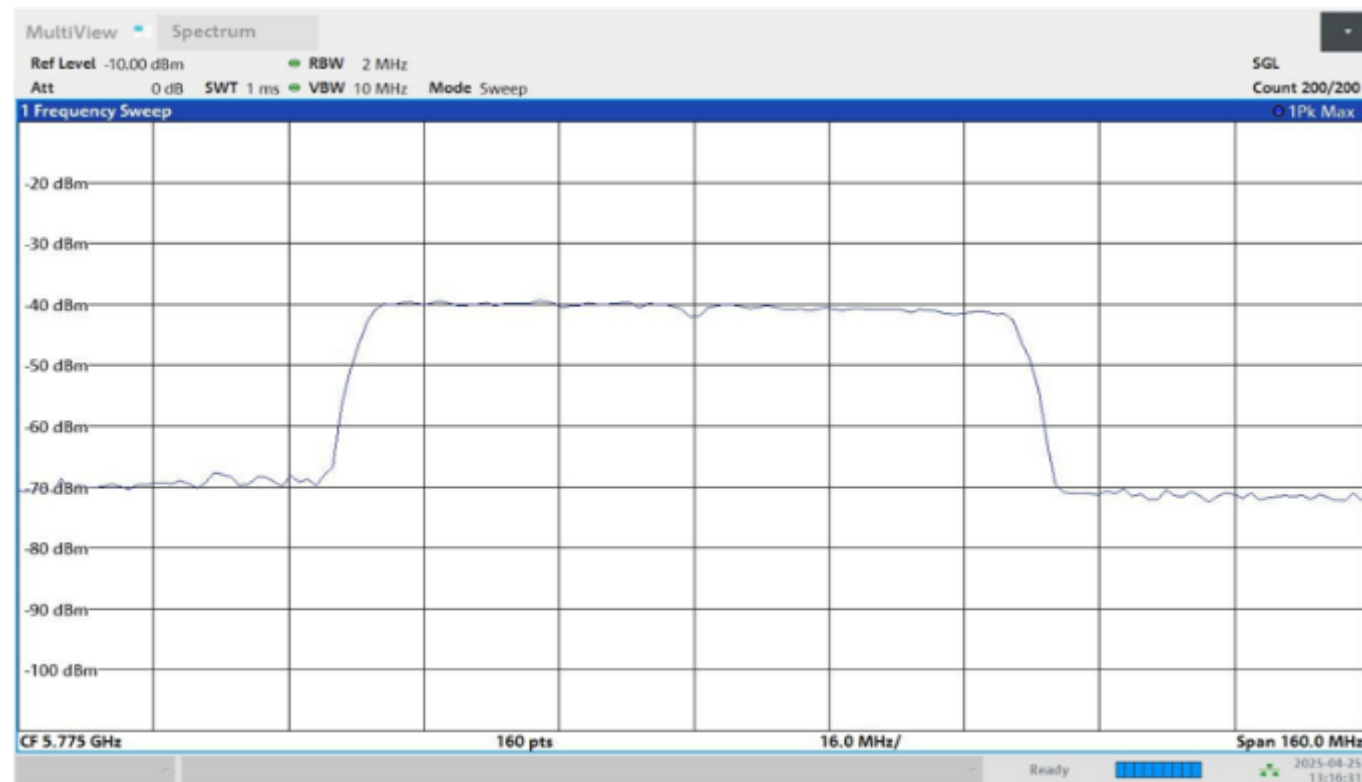
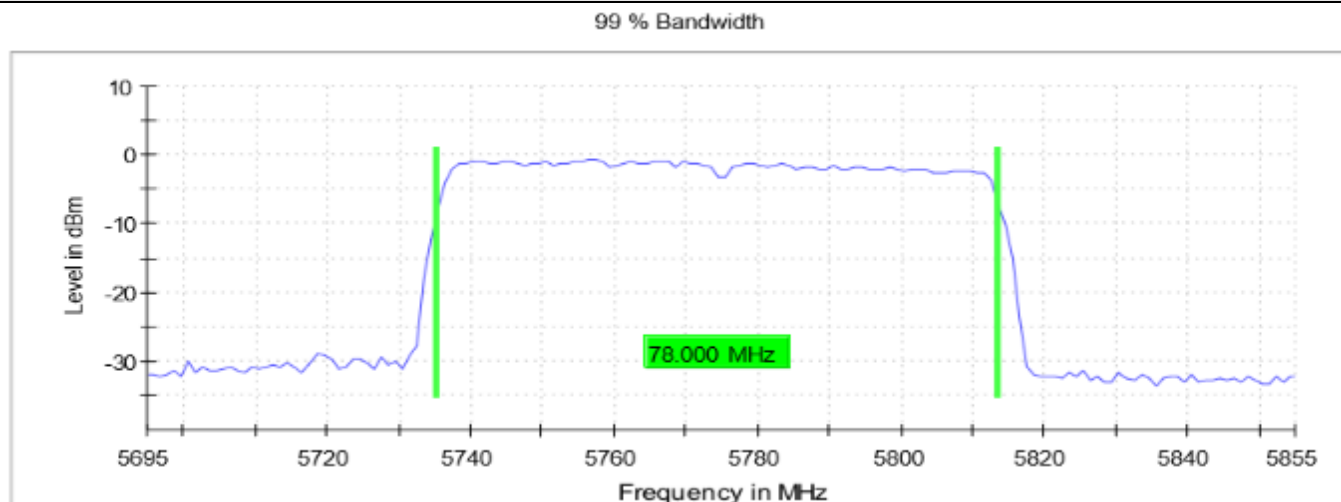
802.11a 5825MHz 6Mbps



802.11n (HT40) 5755MHz MCS0



802.11ac (VHT80) 5775MHz MCS0



5. RADIATED TESTING

5.1 Test Summary

Start: 03/18/2025	End: 05/05/2025	Temperature: 21.0°C Humidity: 43.9%R.H	Initials: SS/AB
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DUT S/N	J23134 ER 3B#001		DUT Operating Mode		5GHz WLAN
Comment	Worst case 20MHz channels from (802.11a/802.11ac) modulations are tested Worst case 40MHz and 80MHz channels from (802.11n/802.11ac) are tested.				
Antenna	Frequency Range	Polarization	Result Over/Under Limit		Notes
Loop	9kHz-30MHz	Parallel	☐ Over	☒ Under	√
		Perpendicular	☐ Over	☒ Under	√
		Ground-Parallel	☐ Over	☒ Under	√
Log Periodic	30MHz-1GHz	Horizontal	☐ Over	☒ Under	√
		Vertical	☐ Over	☒ Under	√
Horn	1GHz-18GHz	Horizontal	☐ Over	☒ Under	√
		Vertical	☐ Over	☒ Under	√
Horn	18GHz-27.5GHz	Horizontal	☐ Over	☒ Under	√
		Vertical	☐ Over	☒ Under	√

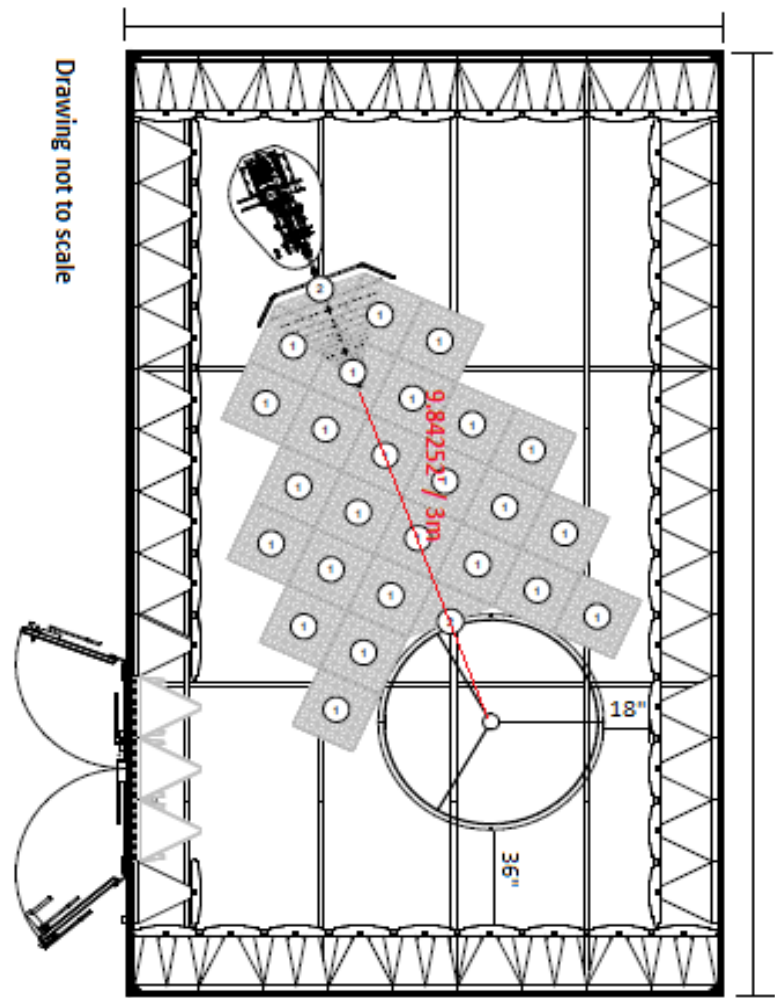
Notes: √ meets the requirements of the acceptance criteria.

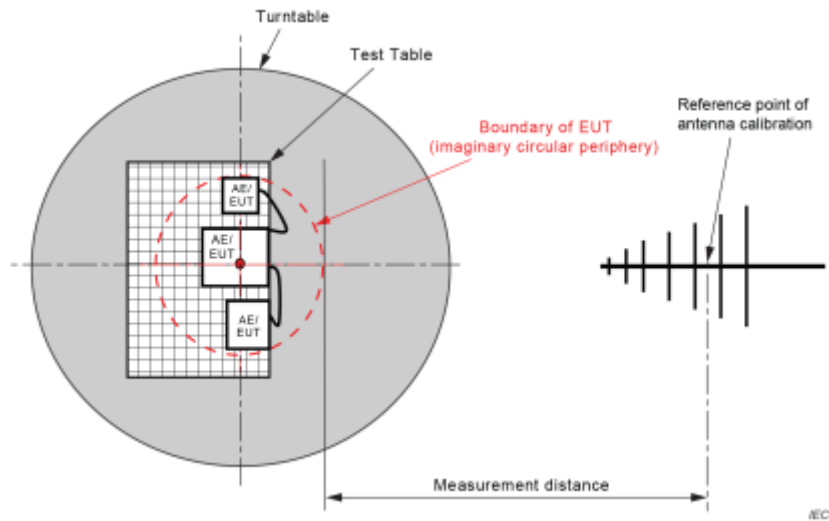
5.2 Test Setup

Semi-Anechoic Chamber Test Site-3 meter

Chamber Location	815 N Opdyke Rd Auburn Hills, Michigan 48326
Chamber Manufacturer:	ETS-Lindgren
Chamber Type	Semi-Anechoic
Model	FACT™ 3-2.0 Plus
Chamber Dimensions (L x W x H)	18'x18'x30'
Quiet Zone Diameter	2.0 meters
Quiet Zone Test Heights	1 & 2 meters (front only)
Test Distance	3.0 meters
Test Frequency Range	1-40 GHz
Measured Performance	4.87 dB Site sVSWR

Chamber Dimensions





5.3 Test Equipment Used

ID #	Equipment	Manufacturer	Model #	Serial #	Cal Due
BVD0217	Receiver 2Hz-44GHz	Rohde & Schwarz	ESW44	101871	4/18/2026
BVD0118	Antenna Mast Position Controller	ETS	7006-001	00214778/00214648	N/A
BVD0111	3 Meter Anechoic Chamber	ETS	N/A	N/A	N/A
BVD0247	Turn Table	ETS	920250	N/A	N/A
BVD0323	Foam Test Table For 3 Meter Chamber	ETS-Lindgren	LDT-1.5	N/A	N/A
BVD0069	Bore Sight Tower	ETS	2171B	226732	N/A
BVD0312	Optima 12V Blue top Marine battery	Optima	D34M	N/A	N/A
BVD0187	Preamplifier 25dB cal to 100kHz-1GHz	Rohde & Schwarz	TS-PR1	102080	6/27/2025
BVD0184	Preamplifier 29dB 1-18GHz	Rohde & Schwarz	TS-PR18	101646	7/13/2025
BVD0185	Preamplifier 45dB 18-40GHz	Rohde & Schwarz	TS-PR1840	100064	7/13/2025
BVD0011	Loop Antenna 9kHz-30MHz	Rohde & Schwarz	FMZB1519B	145	6/10/2025
BVD0021	UltraLog Antenna 30-6000MHz	Rohde & Schwarz	HL562E	101113	6/26/2025
BVD0267	Double Ridge Waveguide 800MHz-18GHz	Rohde & Schwarz	HF907	102832	6/27/2025
BVD0320	18-40GHz Horn Antenna	L3 Narda ATM	PNR 180-442-KF	136164-01	7/15/2025
BVD0045	Field Probe Mast	Rohde & Schwarz	TS-FPMA	N/A	N/A
BVD0481	Band Reject Filter 40dB from 5150 to 5880MHz	Micro-Tronics	BRM50716	G336	6/17/2025
BVD0394	Double Shielded N-Type Cable 6.9 Meter	Rohde & Schwarz	N-Type	N/A	4/7/2026
BVD0398	Double Shielded N-Type Cable 2 Meter	Rohde & Schwarz	N-Type	N/A	4/7/2026
BVD0563	RF Cable Assembly	Huber+Suhner, inc	SUCOFLEX 102A	502215/2A	10/30/2025
BVD0407	Double Shielded N-Type Cable 410mm (For PreAmp)	Rohde & Schwarz	N-Type	N/A	10/15/2025
BVD0495	SMA Shielded Cable approx 100mm (for Pre-Amp)	Rohde & Schwarz	SMA-Type	N/A	7/15/2025
BVD0587	Double Shielded N-Type Cable 440mm (For PreAmp)	Winchester Interconnect	250-251-660157 REV A	N/A	7/3/2025
BVD0229	Temp and Humidity Meter	Fluke	971	12001009	5/23/2025

Equipment List (Software)

ID #	Equipment	Manufacturer	Model	Version No.	
N/A	EMC Test Software	Rodhe & Schwarz	EMC32	11.20.00	N/A

Customer Supplied Equipment

ID #	Equipment	Manufacturer	Model	Serial #	Version No.
N/A	Harness	Harman	N/A	N/A	N/A
N/A	Display Unit	MOBIS	BMM6100000	231107 01	N/A
N/A	Shark Fin Antenna	Alfa Romeo	B901	719147	N/A
N/A	Antenna	Aptiv	APN35409682	N/A	N/A
N/A	Camera	N/A	23295906C	N/A	N/A
N/A	MFGBridge_Tool/Dut labtool	N/A	N/A	N/A	2.0.0.89

5.4 Test Limits and Procedure

Radiated emissions that fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a)

Frequencies (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (meters)
0.009 ~ 0.490	$2400/F(\text{kHz})$	48.5 - 13.8	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	33.8 - 23	30
1.705 ~ 30.0	30	29.54	30
30 ~ 88	100	40.0	3
88 ~ 216	150	43.5	3
216 ~ 960	200	46.0	3
Above 960	500	54.0	3

Note:

- The lower limit shall apply at the transition frequencies.
- For performing measurements at a specified distance of 3m, the values are extrapolated using extrapolation factor.
Frequencies below 30MHz are extrapolated using 40dB/decade.
Frequencies above 30MHz are extrapolated using 20dB/decade.

Frequencies (MHz)	Formula for Limits derivation for below 30MHz	Limits for frequencies below 30MHz ($\text{dB}\mu\text{V/m}$)
0.009 ~ 0.490	$2400/F(\text{kHz}) + 40 \text{ Log } (300\text{m}/3\text{m})$	128.5 ~ 93.8
0.490 ~ 1.705	$24000/F(\text{kHz}) + 40 \text{ Log } (30\text{m}/3\text{m})$	73.8 ~ 62.96
1.705 ~ 30.0	$29.54 + 40 \text{ Log } (30\text{m}/3\text{m})$	69.54

- For frequencies above 1000MHz, the field strength limits based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 30dB under any condition of modulation.

The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω .

The measurement procedures are as per **789033 D02 General UNII Test Procedures New Rules v02r01, ISED RSS-247 6.2**

The Limits for Unwanted emissions out of the Restricted Bands are as follows.

Procedure	Limits	
	Peak (dB μ V/m)	Average (dB μ V/m)
KDB 789033 D02 General UNII Test Procedures New Rules v02r01	74	54

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

Procedure	Peak Limit (dB μ V/m)
15.407(b)(1)	68.23
15.407(b)(2)	
15.407(b)(3)	
15.407(b)(4)	As stated above

1. The table height for emissions measurements
 - i) Below 1 GHz, the table height is 80 cm above the reference ground plane.
 - ii) Above 1 GHz, the table height is 1.5 m
2. Measurements performed with the EUT rotated from 0° to 360°, the antenna height scanned between 1m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

5.5 EMI Test Receiver/Spectrum Analyzer Settings

Below 1GHz

Frequency	RBW	Detector
9KHz to 30MHz	9KHz	Peak

Frequency	RBW	Detector
30MHz to 1GHz	120KHz	Peak/Quasi Peak

Above 1GHz

Frequency	RBW	Detector
1GHz to 40GHz	1 MHz	Peak/ Power Averaging (RMS)

Note: Trace average is 100 traces for continuous transmission else the traces shall be increased by a factor of $1/x$, where x is the duty cycle. Duty cycle $> 98\%$ no correction factor needed and for Duty cycle $< 98\%$ the correction factor $10 \log (1/x)$, where x is the duty cycle.

5.6 Test Data

Uncertainty

Radiated Emissions (30MHz to 40GHz)

Test Engineer Initials: SS/AB

The test is to measure the radiated emissions of the EUT. Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the antenna
- Uncertainty of cables
- Uncertainty due to the mismatches
- NSA Calibration
- Etc., details see the below table

30MHz to 1GHZ

Source of Uncertainty	Value (dB)	ProbabilityDistribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105
Filter Insertion Loss	0.25	Normal	2	1	0.125
Antenna Factor	0.65	Normal	2	1	0.325
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.86605081
PRF Response	1.5	Rectangular	1.732	1	0.86605081
Mismatch Filter – Receiver	0.25	U-Shape	2.449	1	0.1768033
NSA Calibration	4.0	Triangular	1.414	1	1.633332
ETS Foam Table (LDT-1.5)	1.8	Rectangular	1.732	1	1.039261
Combined Standard Uncertainty (square root of the sum of the squares)					2.113781
Expanded Uncertainty (K=2)					4.227562

The total derived measurement uncertainty is +/- 4.228 dB

1GHz to 40GHz

Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105000
Filter Insertion Loss	0.25	Normal	2	1	0.125000
Antenna Factor	0.65	Normal	2	1	0.325000
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.866051
PRF Response	1.5	Rectangular	1.732	1	0.866051
Mismatch Filter – Receiver	0.25	U-Shape	1.414	1	0.176803
VSWR Calibration	2.0	Triangular	2.449	1	0.816659
ETS Foam Table (LDT-1.5)	1.8	Rectangular	1.732	1	1.039261
Combined Standard Uncertainty (square root of the sum of the squares)					1.869213
Expanded Uncertainty (K=2)					3.738426

The total derived measurement uncertainty is +/- 3.738 dB.

Remarks:

1. Level Q-Peak Reading (dBμV/m) = Raw Q-Peak Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Q-Peak Reading – Limit

Remarks:

1. Level Peak Reading (dBμV/m) = Raw Peak Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Peak Reading – Limit

Remarks:

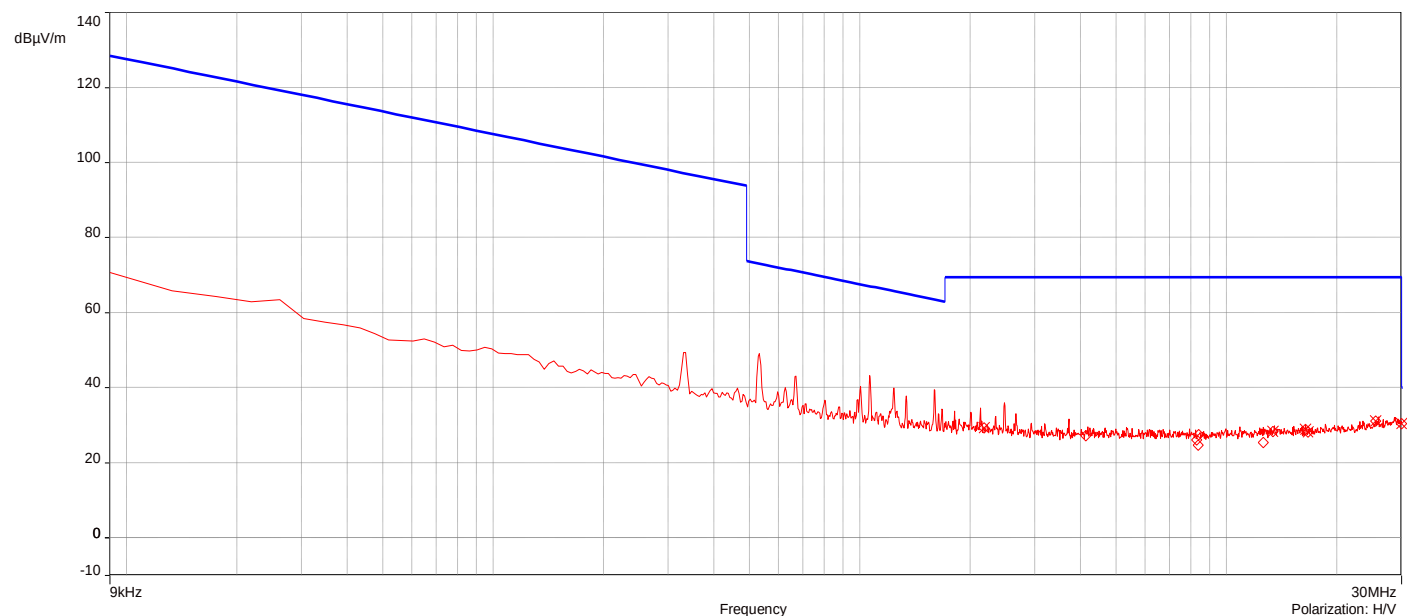
1. Level Average Reading (dBμV/m) = Raw Average Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Average Reading – Limit

J23134 ER 3B#001_5G UNII-1 802.11ac_MCS0_Ch 36_9kHz-30MHz_Ground-Parallel

4/30/2025 11:40:07 AM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.181516MHz	29.37	19.55	69.54	-40.17	1.00	190.40	H/V	Passed
2.	13.361187MHz	28.41	19.91	69.54	-41.13	1.00	27.80	H/V	Passed
3.	16.420706MHz	28.92	20.08	69.54	-40.62	1.00	280.70	H/V	Passed
4.	16.694949MHz	28.20	20.12	69.54	-41.34	1.00	190.40	H/V	Passed
5.	25.509277MHz	31.19	21.15	69.54	-38.35	1.00	113.00	H/V	Passed
6.	30MHz	30.38	22.05	40.00	-9.62	1.00	297.60	H/V	Passed

Overall Graphs:

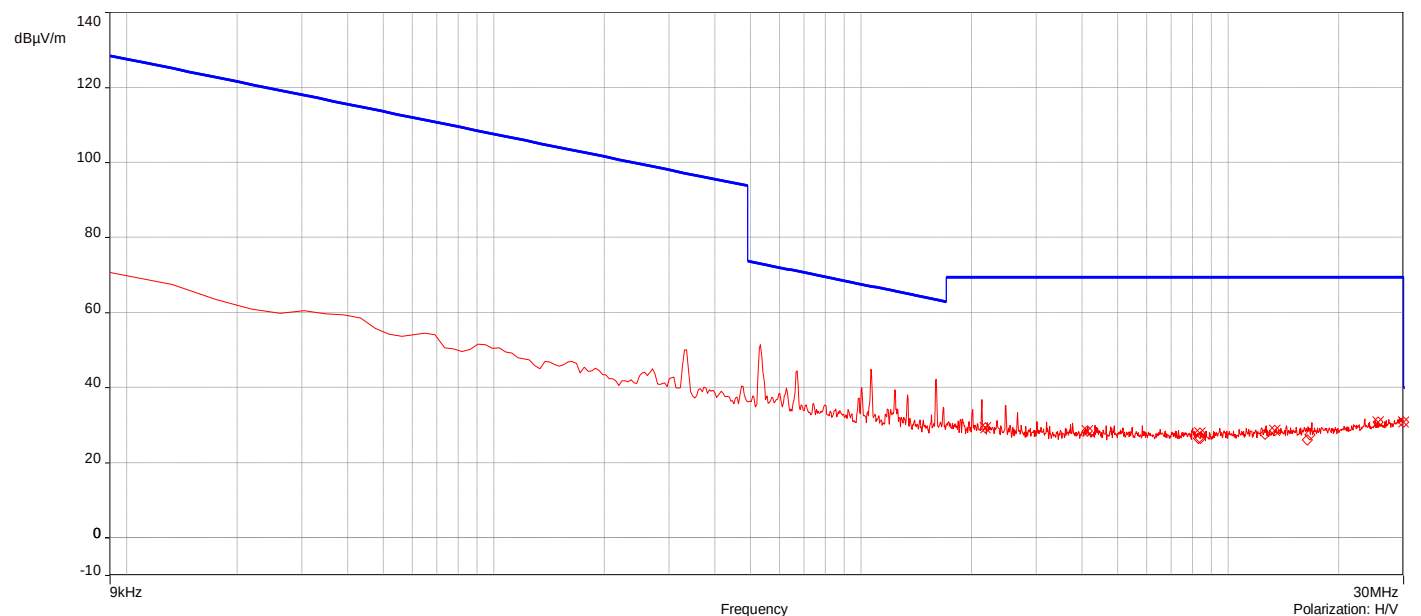


J23134 ER 3B#001_5G UNII-1802.11ac_MCS0_Ch 36_9kHz-30MHz_Parallel

4/30/2025 12:00:02 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.177231MHz	29.26	19.55	69.54	-40.28	1.00	100.00	H/V	Passed
2.	4.126924MHz	28.43	19.71	69.54	-41.11	1.00	153.30	H/V	Passed
3.	8.364829MHz	27.94	19.53	69.54	-41.60	1.00	43.50	H/V	Passed
4.	13.378327MHz	28.67	19.91	69.54	-40.87	1.00	168.10	H/V	Passed
5.	25.603548MHz	30.85	21.16	69.54	-38.69	1.00	358.90	H/V	Passed
6.	30MHz	30.90	22.05	40.00	-9.10	1.00	91.30	H/V	Passed

Overall Graphs:

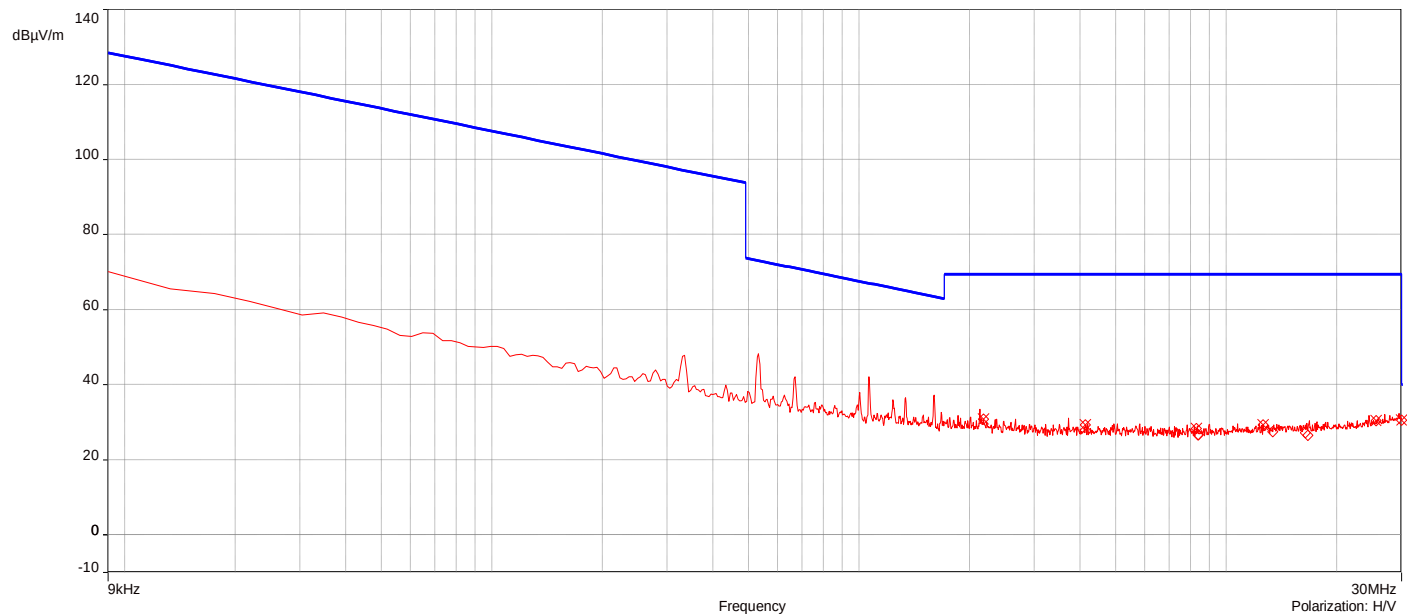


J23134 ER 3B#001_5G UNII-1 802.11ac MCS0_Ch 36_9kHz-30MHz_Perpendicular

4/30/2025 11:57:20 AM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.177231MHz	30.82	19.55	69.54	-38.72	1.00	274.50	H/V	Passed
2.	4.126924MHz	29.35	19.71	69.54	-40.19	1.00	343.20	H/V	Passed
3.	8.291984MHz	28.34	19.53	69.54	-41.20	1.00	75.40	H/V	Passed
4.	12.577024MHz	29.39	19.84	69.54	-40.15	1.00	268.20	H/V	Passed
5.	25.543558MHz	30.44	21.15	69.54	-39.10	1.00	287.70	H/V	Passed
6.	30MHz	30.61	22.05	40.00	-9.39	1.00	197.00	H/V	Passed

Overall Graphs:

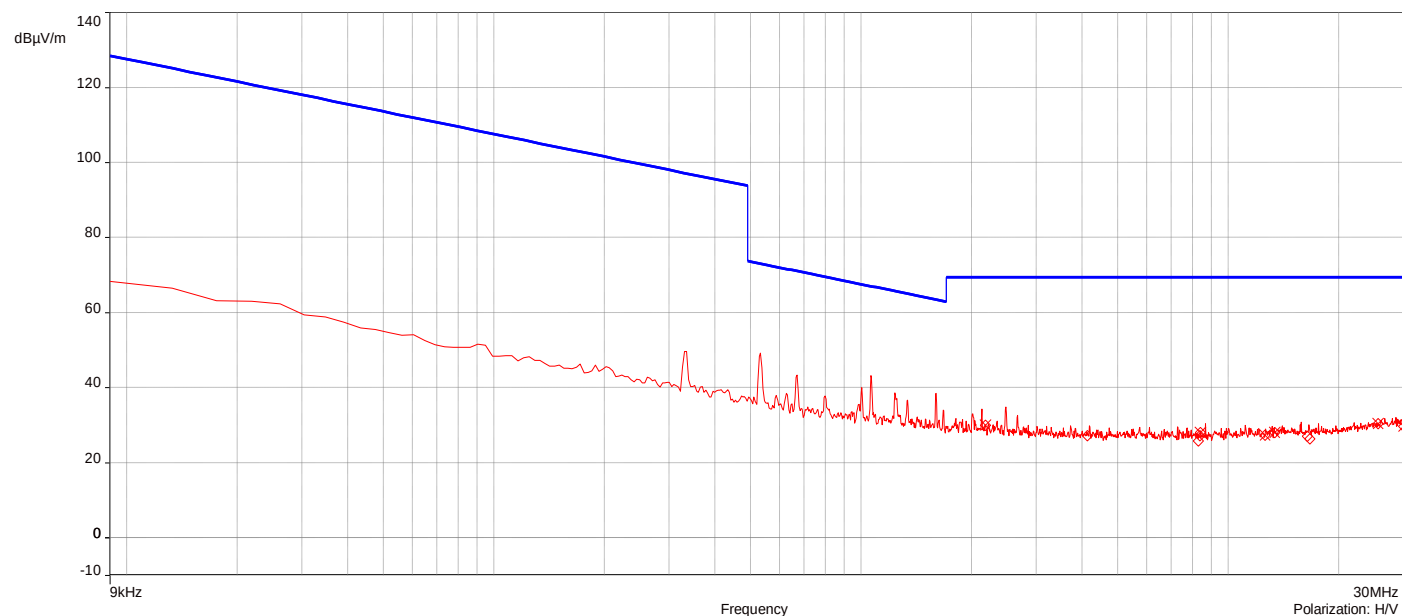


J23134 ER 3B#001_5G UNII-1 802.11ac_MCS0_Ch 40_9kHz-30MHz_Ground-Parallel

4/30/2025 11:42:16 AM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.177231MHz	30.05	19.55	69.54	-39.49	1.00	253.50	H/V	Passed
2.	8.386255MHz	28.07	19.53	69.54	-41.47	1.00	255.80	H/V	Passed
3.	12.577024MHz	27.34	19.84	69.54	-42.20	1.00	349.90	H/V	Passed
4.	13.391182MHz	28.00	19.91	69.54	-41.54	1.00	0.10	H/V	Passed
5.	25.560698MHz	30.47	21.15	69.54	-39.07	1.00	109.20	H/V	Passed
6.	30MHz	29.72	22.05	40.00	-10.28	1.00	313.90	H/V	Passed

Overall Graphs:

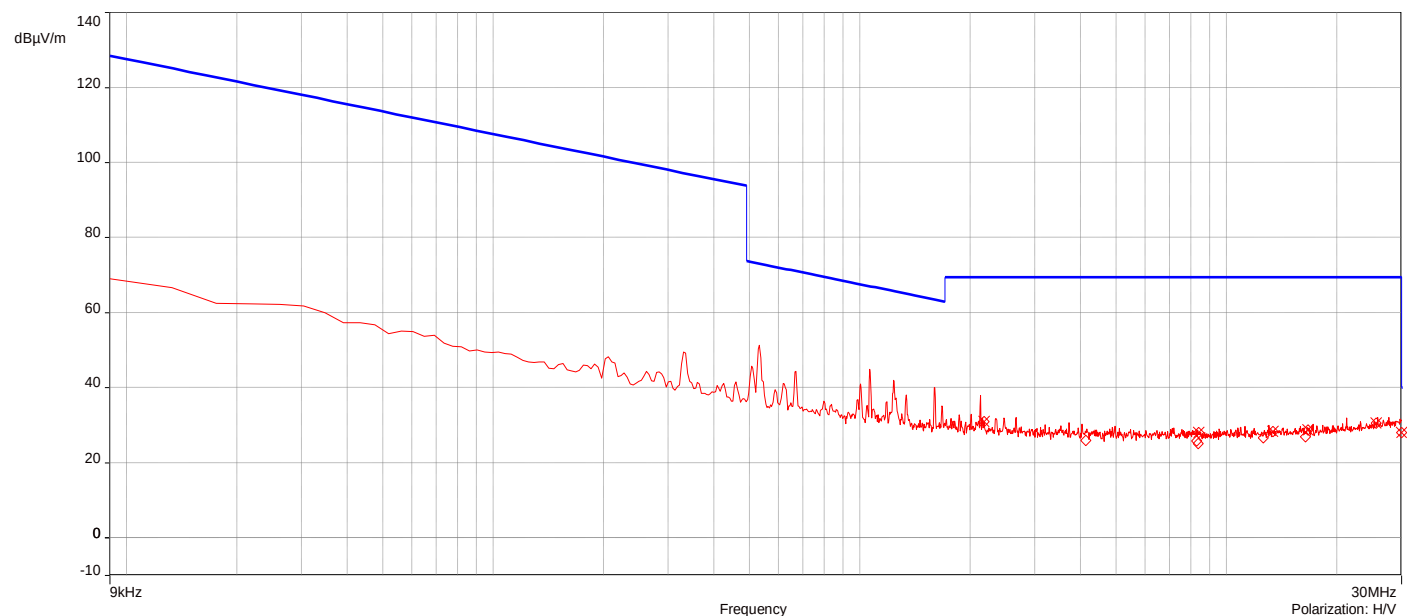


J23134 ER 3B#001_5G UNII-1 802.11ac_MCS0_Ch 40_9kHz-30MHz_Parallel

4/30/2025 12:01:56 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.177231MHz	30.94	19.55	69.54	-38.60	1.00	140.00	H/V	Passed
2.	8.377685MHz	28.08	19.53	69.54	-41.46	1.00	225.90	H/V	Passed
3.	13.361187MHz	28.28	19.91	69.54	-41.26	1.00	195.20	H/V	Passed
4.	16.694949MHz	28.83	20.12	69.54	-40.71	1.00	45.80	H/V	Passed
5.	25.586408MHz	30.54	21.16	69.54	-39.00	1.00	154.80	H/V	Passed
6.	30MHz	28.11	22.05	40.00	-11.89	1.00	238.70	H/V	Passed

Overall Graphs:

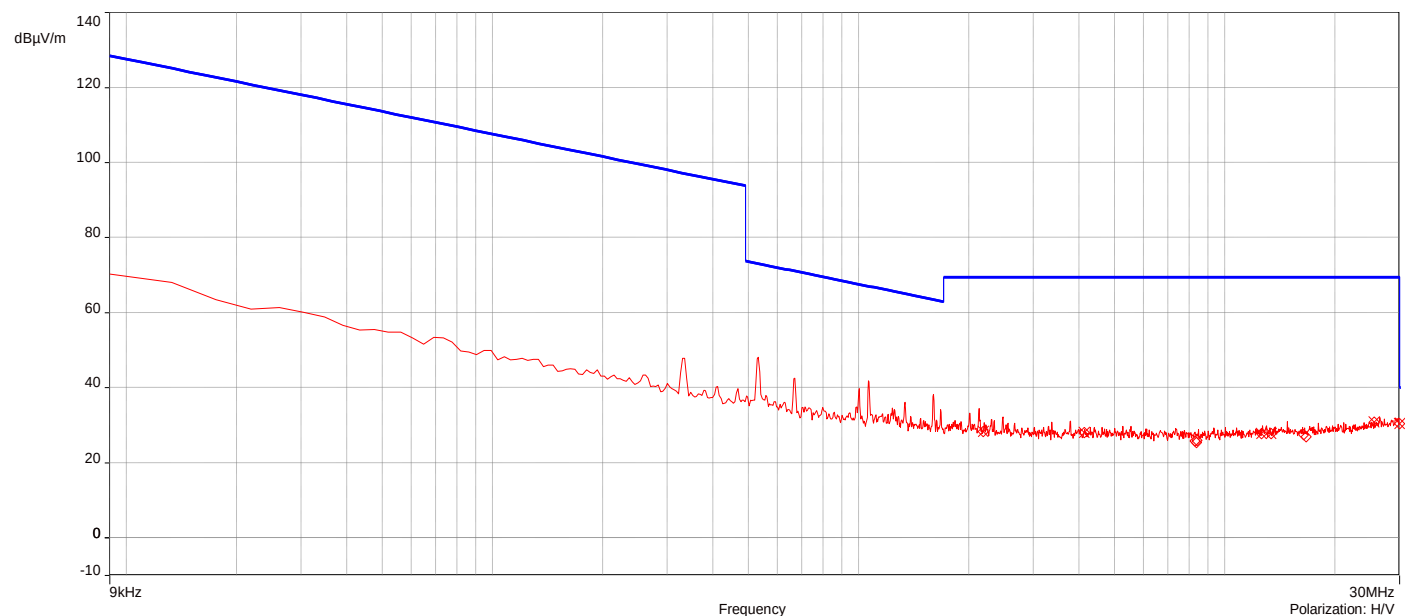


J23134 ER 3B#001_5G UNII-1 802.11ac_MCS0_Ch 40_9kHz-30MHz_Perpendicular

4/30/2025 11:55:21 AM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.190086MHz	28.40	19.55	69.54	-41.14	1.00	78.50	H/V	Passed
2.	4.126924MHz	28.12	19.71	69.54	-41.42	1.00	243.50	H/V	Passed
3.	12.577024MHz	27.75	19.84	69.54	-41.79	1.00	210.50	H/V	Passed
4.	13.361187MHz	27.82	19.91	69.54	-41.72	1.00	167.10	H/V	Passed
5.	25.552128MHz	30.79	21.15	69.54	-38.75	1.00	23.00	H/V	Passed
6.	30MHz	30.44	22.05	40.00	-9.56	1.00	275.50	H/V	Passed

Overall Graphs:

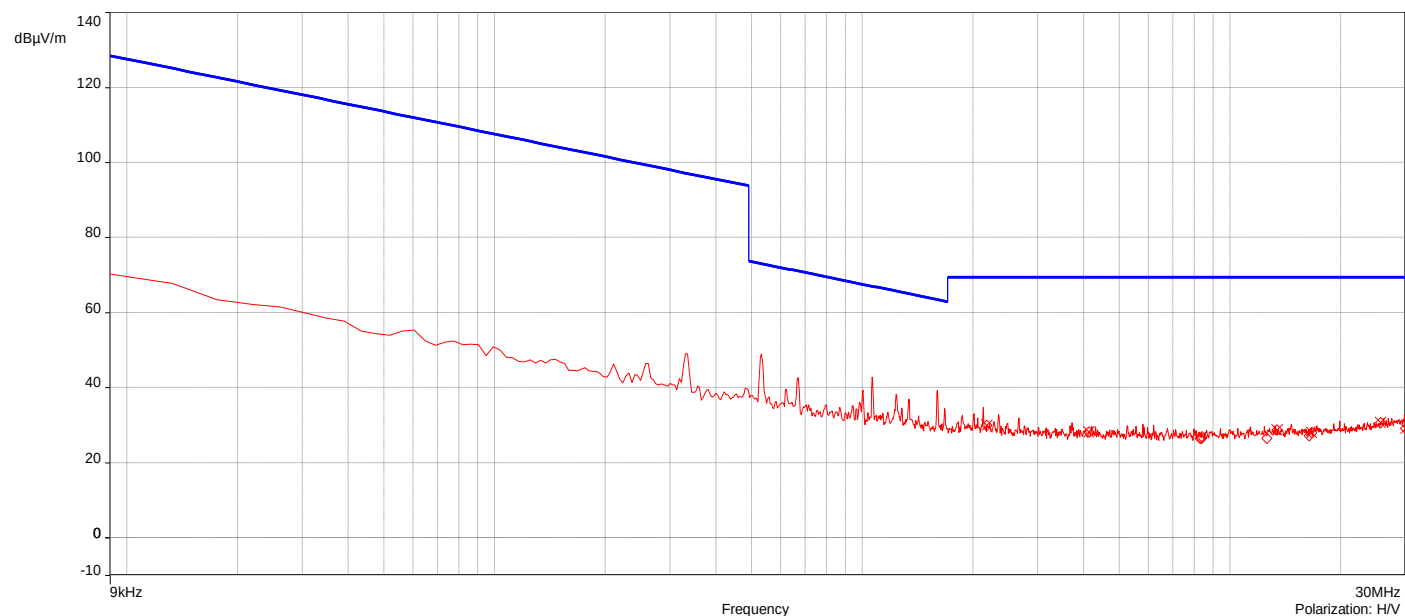


J23134 ER 3B#001_5G UNII-3 802.11ac_MCS0_Ch 157_9kHz-30MHz_Ground-Parallel

4/30/2025 11:44:41 AM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.177231MHz	29.96	19.55	69.54	-39.58	1.00	352.80	H/V	Passed
2.	4.126924MHz	28.16	19.71	69.54	-41.38	1.00	226.20	H/V	Passed
3.	13.408322MHz	28.78	19.91	69.54	-40.76	1.00	91.40	H/V	Passed
4.	16.694949MHz	28.04	20.12	69.54	-41.50	1.00	0.20	H/V	Passed
5.	25.642114MHz	30.69	21.16	69.54	-38.85	1.00	95.40	H/V	Passed
6.	30MHz	29.22	22.05	40.00	-10.78	1.00	202.70	H/V	Passed

Overall Graphs:

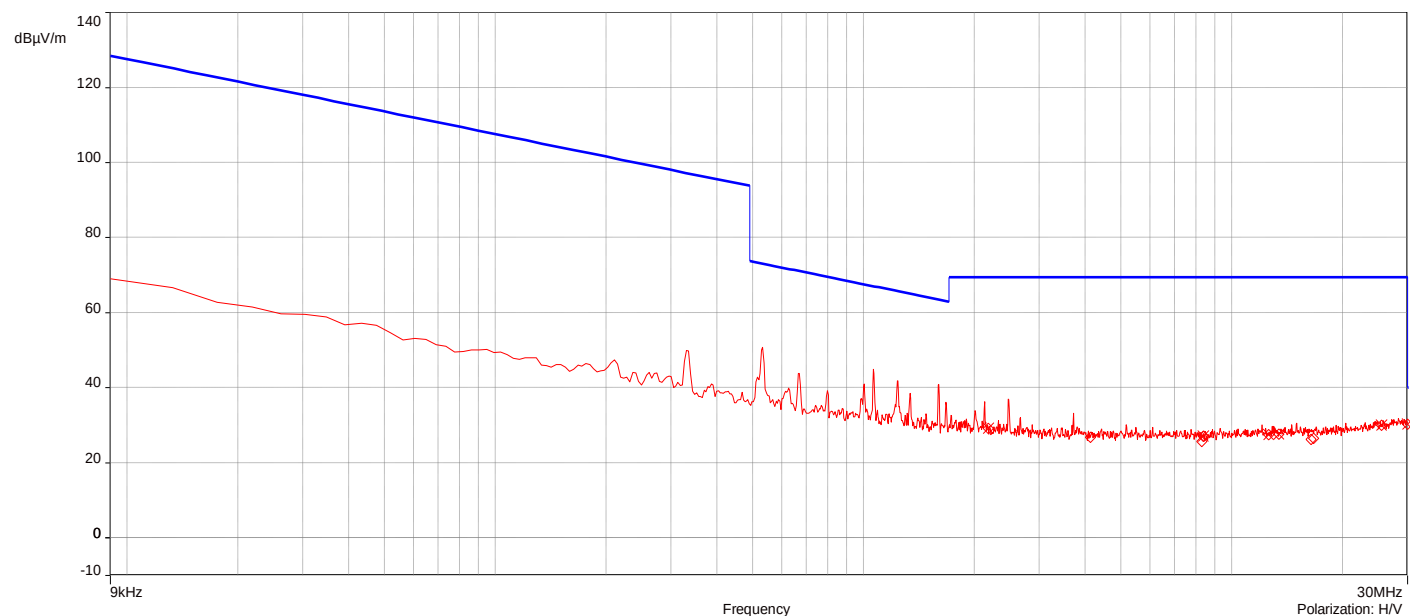


J23134 ER 3B#001_5G UNII-3 802.11ac_MCS0_Ch 157_9kHz-30MHz_Parallel

4/30/2025 12:03:53 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.177231MHz	29.20	19.55	69.54	-40.34	1.00	130.70	H/V	Passed
2.	8.364829MHz	27.16	19.53	69.54	-42.38	1.00	121.90	H/V	Passed
3.	12.577024MHz	27.51	19.84	69.54	-42.03	1.00	313.20	H/V	Passed
4.	13.395467MHz	27.68	19.91	69.54	-41.86	1.00	319.60	H/V	Passed
5.	25.522132MHz	30.05	21.15	69.54	-39.49	1.00	113.20	H/V	Passed
6.	30MHz	30.26	22.05	40.00	-9.74	1.00	64.30	H/V	Passed

Overall Graphs:

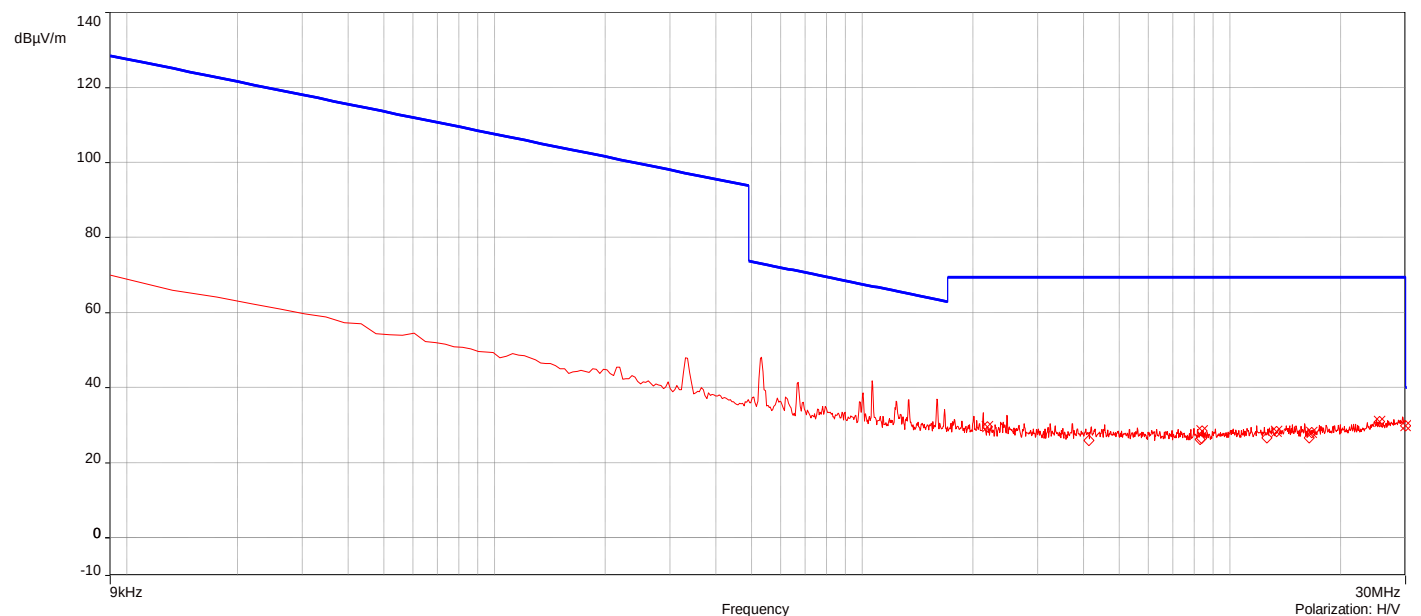


J23134 ER 3B#001_5G UNII-3 802.11ac_MCS0_Ch 157_9kHz-30MHz_Perpendicular

4/30/2025 11:53:23 AM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.185801MHz	29.61	19.55	69.54	-39.93	1.00	327.50	H/V	Passed
2.	8.377685MHz	28.47	19.53	69.54	-41.07	1.00	57.80	H/V	Passed
3.	13.365472MHz	28.32	19.91	69.54	-41.22	1.00	207.10	H/V	Passed
4.	16.694949MHz	28.05	20.12	69.54	-41.49	1.00	286.60	H/V	Passed
5.	25.504992MHz	30.97	21.15	69.54	-38.57	1.00	116.30	H/V	Passed
6.	30MHz	29.85	22.05	40.00	-10.15	1.00	209.50	H/V	Passed

Overall Graphs:

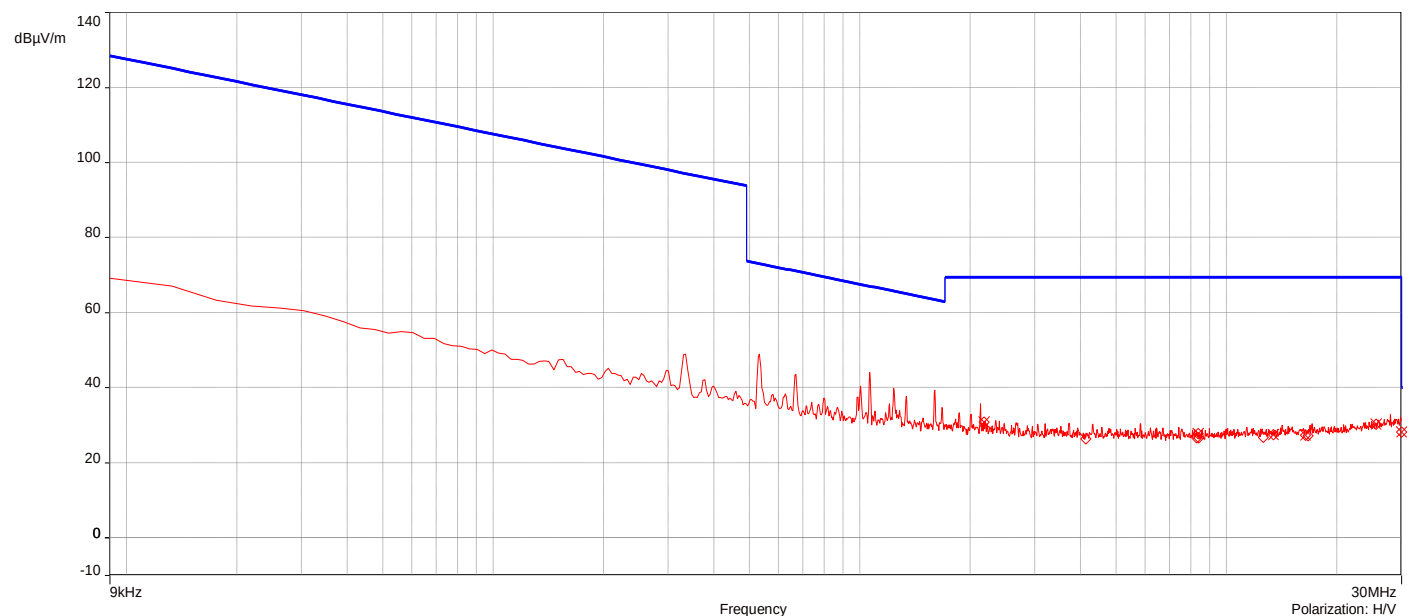


J23134 ER 3B#001_5G UNII-3 802.11ac_MCS0_Ch 165_9kHz-30MHz_Ground-Parallel

4/30/2025 11:46:47 AM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.177231MHz	30.81	19.55	69.54	-38.73	1.00	305.80	H/V	Passed
2.	8.364829MHz	27.75	19.53	69.54	-41.79	1.00	55.30	H/V	Passed
3.	13.395467MHz	27.58	19.91	69.54	-41.96	1.00	357.40	H/V	Passed
4.	16.420706MHz	27.42	20.08	69.54	-42.12	1.00	305.80	H/V	Passed
5.	25.564983MHz	30.34	21.16	69.54	-39.20	1.00	85.20	H/V	Passed
6.	30MHz	28.20	22.05	40.00	-11.80	1.00	291.30	H/V	Passed

Overall Graphs:

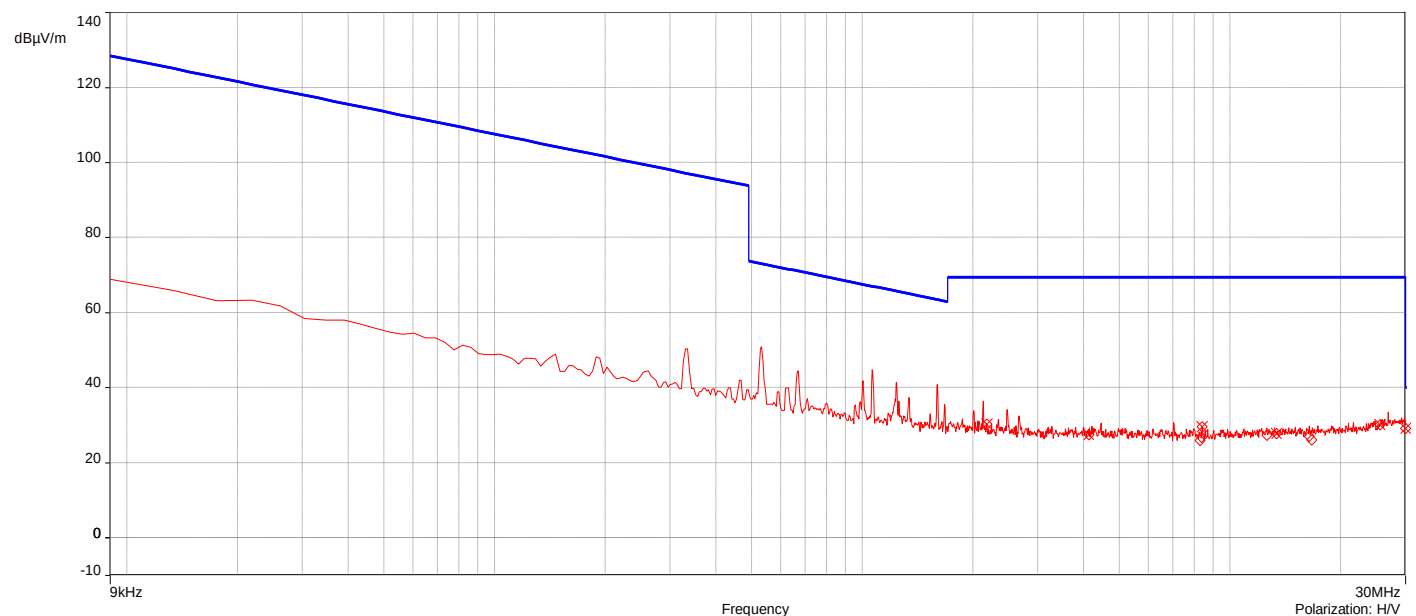


J23134 ER 3B#001_5G UNII-3 802.11ac_MCS0_Ch 165_9kHz-30MHz_Parallel

4/30/2025 12:05:51 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.177231MHz	30.24	19.55	69.54	-39.30	1.00	138.30	H/V	Passed
2.	4.126924MHz	27.53	19.71	69.54	-42.01	1.00	356.20	H/V	Passed
3.	8.386255MHz	29.60	19.53	69.54	-39.94	1.00	131.90	H/V	Passed
4.	13.391182MHz	27.80	19.91	69.54	-41.74	1.00	127.80	H/V	Passed
5.	25.612118MHz	30.16	21.16	69.54	-39.38	1.00	33.30	H/V	Passed
6.	30MHz	29.17	22.05	40.00	-10.83	1.00	231.30	H/V	Passed

Overall Graphs:

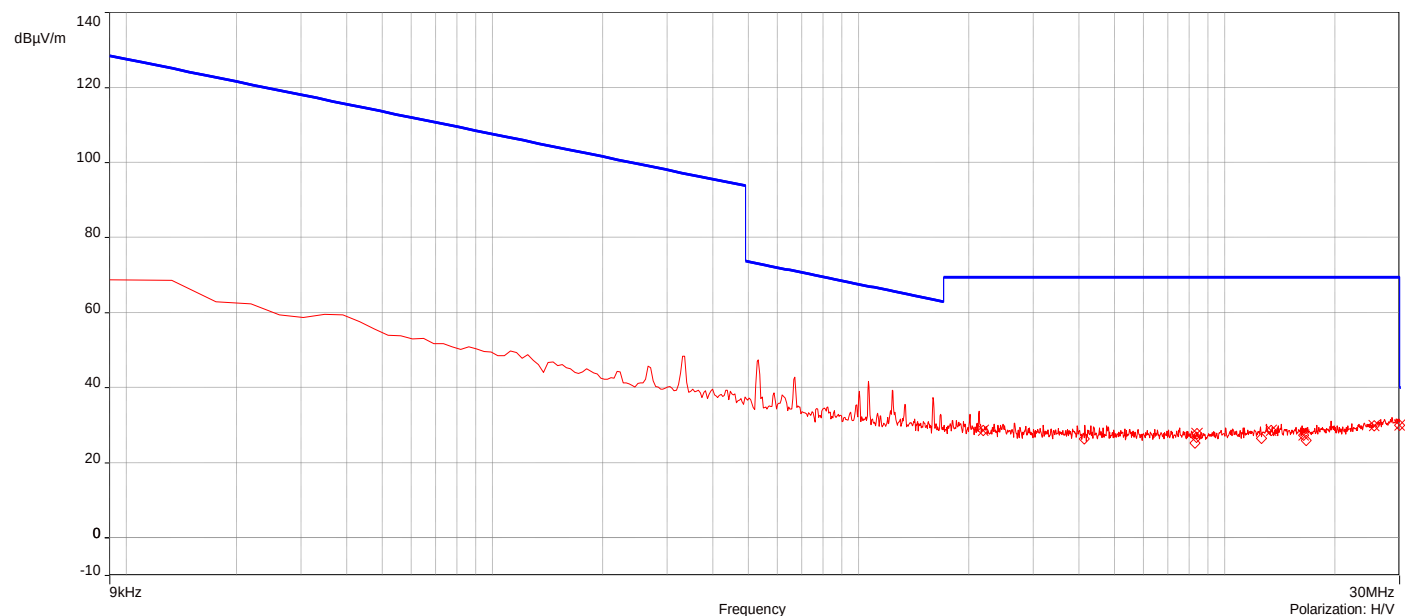


J23134 ER 3B#001_5G UNII-3 802.11ac_MCS0_Ch 165_9kHz-30MHz_Perpendicular

4/30/2025 11:51:18 AM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.185801MHz	28.67	19.55	69.54	-40.87	1.00	0.30	H/V	Passed
2.	8.38197MHz	27.72	19.53	69.54	-41.82	1.00	139.60	H/V	Passed
3.	13.382612MHz	28.63	19.91	69.54	-40.91	1.00	39.20	H/V	Passed
4.	16.420706MHz	27.31	20.08	69.54	-42.23	1.00	150.10	H/V	Passed
5.	25.534988MHz	29.82	21.15	69.54	-39.72	1.00	3.30	H/V	Passed
6.	30MHz	30.07	22.05	40.00	-9.93	1.00	233.60	H/V	Passed

Overall Graphs:



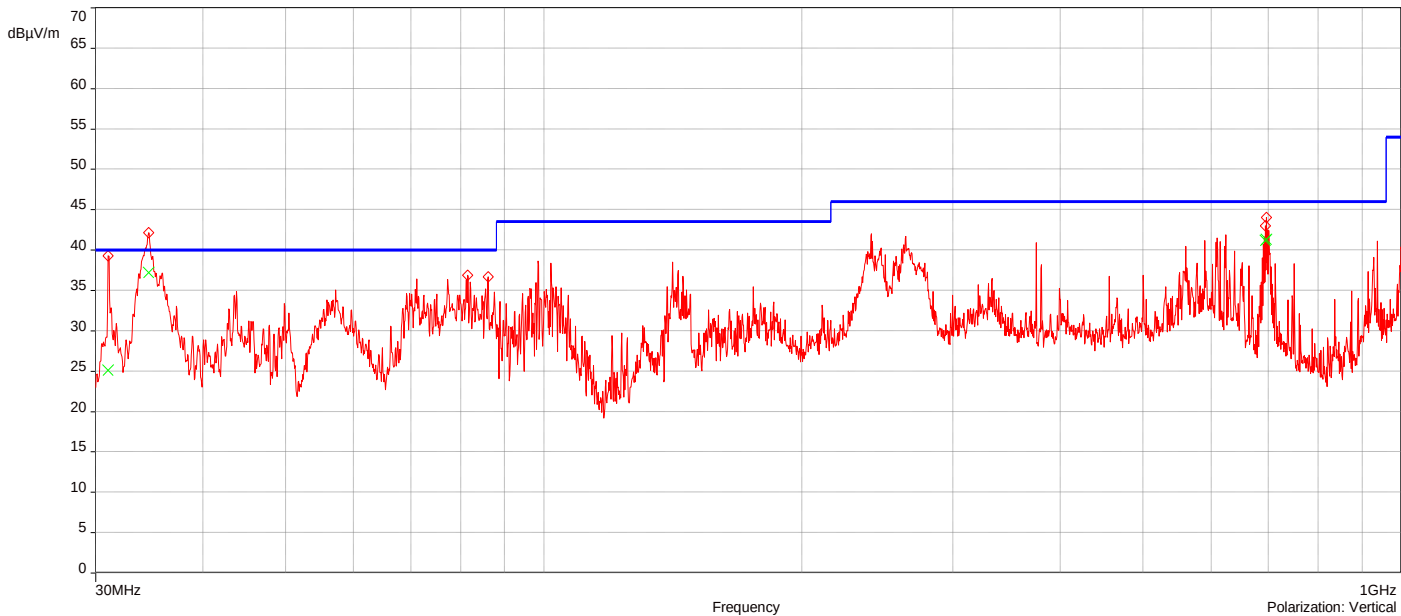
J23134 ER 3B#001_5G UNII-1 802.11a_6Mbps_Ch 36_30MHz-1GHz

4/28/2025 12:39:37 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	31.027119MHz	25.09	-7.44	40.00	-14.91	1.00	343.90	Vertical	Passed
2.	34.564974MHz	37.19	-9.50	40.00	-2.81	1.00	223.90	Vertical	Passed
3.	694.03259MHz	41.17	-4.10	46.00	-4.83	1.00	358.90	Vertical	Passed
4.	696.02977MHz	41.32	-4.10	46.00	-4.68	1.00	1.10	Vertical	Passed
5.	247.29278MHz	42.96	-13.11	46.00	-3.04	1.00	114.10	Horizontal	Passed
6.	267.49279MHz	39.76	-12.18	46.00	-6.24	1.25	143.10	Horizontal	Passed

Overall Graphs:





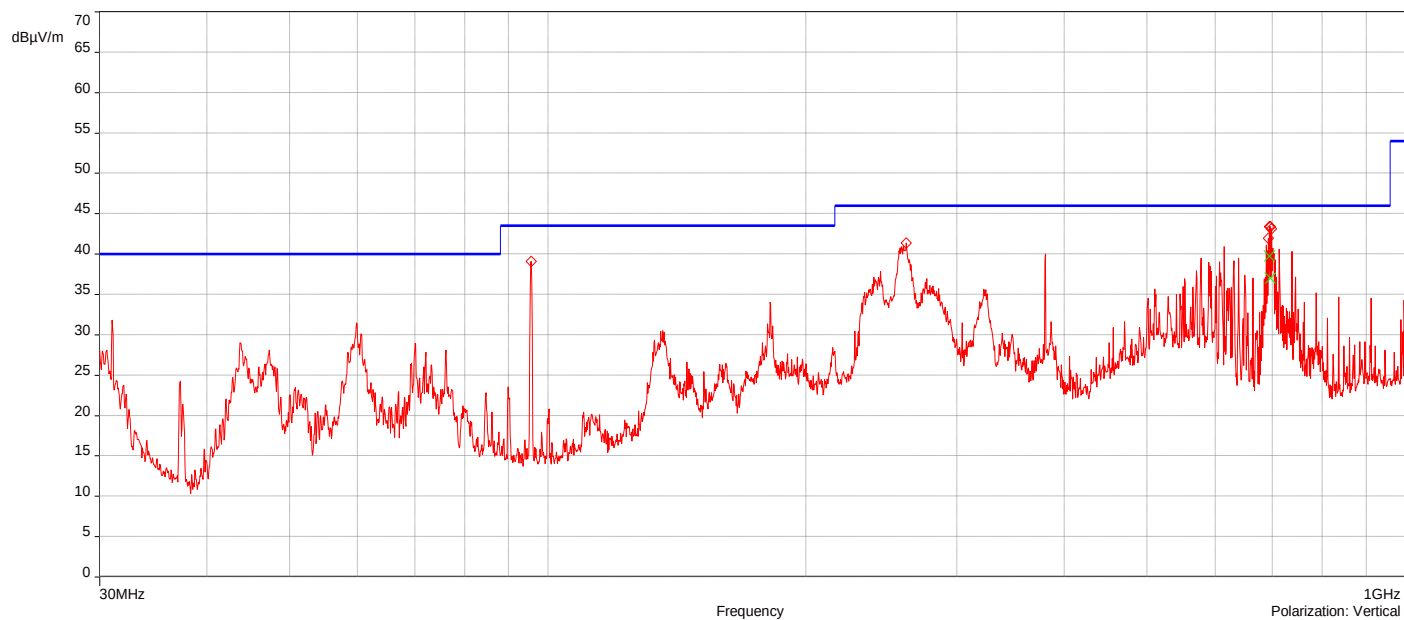
J23134 ER 3B#001_5G UNII-1 802.11n MCS0_Ch 36_30MHz-1GHz

4/25/2025 2:23:28 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	694.03259MHz	39.78	-4.10	46.00	-6.22	1.00	358.90	Vertical	Passed
2.	696.08683MHz	37.04	-4.10	46.00	-8.96	1.00	355.90	Vertical	Passed
3.	259.10465MHz	41.72	-12.58	46.00	-4.28	1.00	136.90	Horizontal	Passed
4.	692.03541MHz	38.89	-2.90	46.00	-7.11	1.25	39.10	Horizontal	Passed
5.	694.08965MHz	35.67	-2.90	46.00	-10.33	1.25	57.10	Horizontal	Passed
6.	696.08683MHz	38.02	-2.89	46.00	-7.98	1.25	51.10	Horizontal	Passed

Overall Graphs:



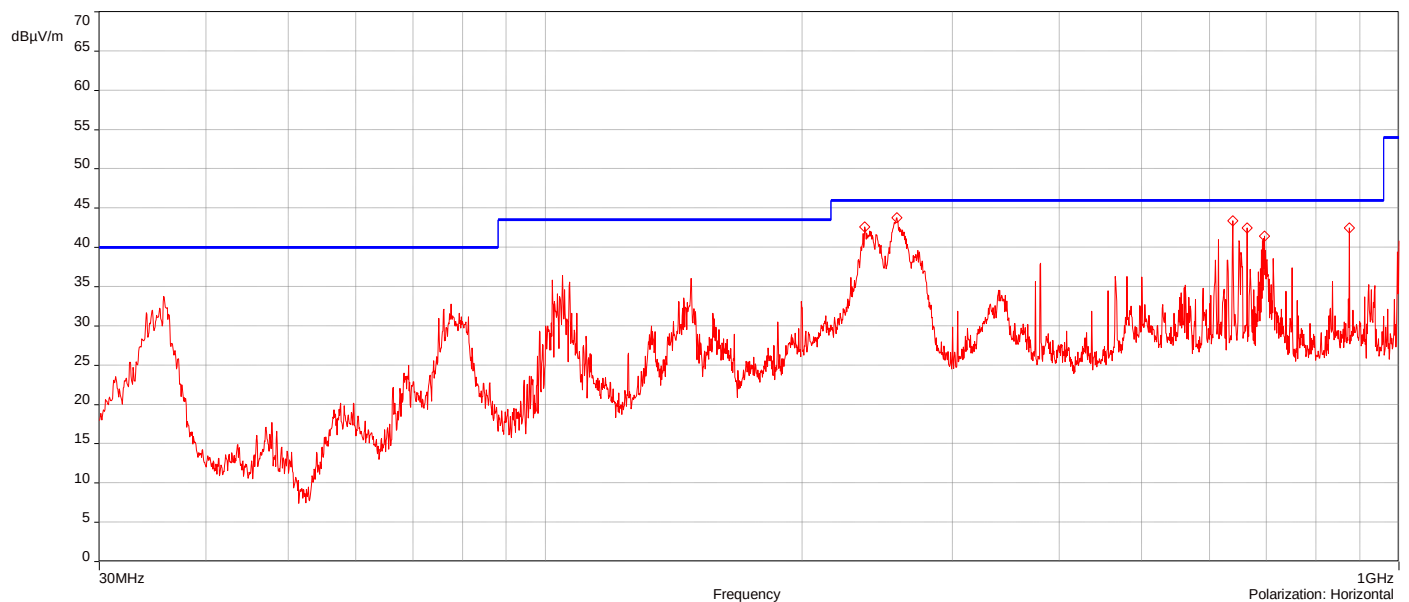


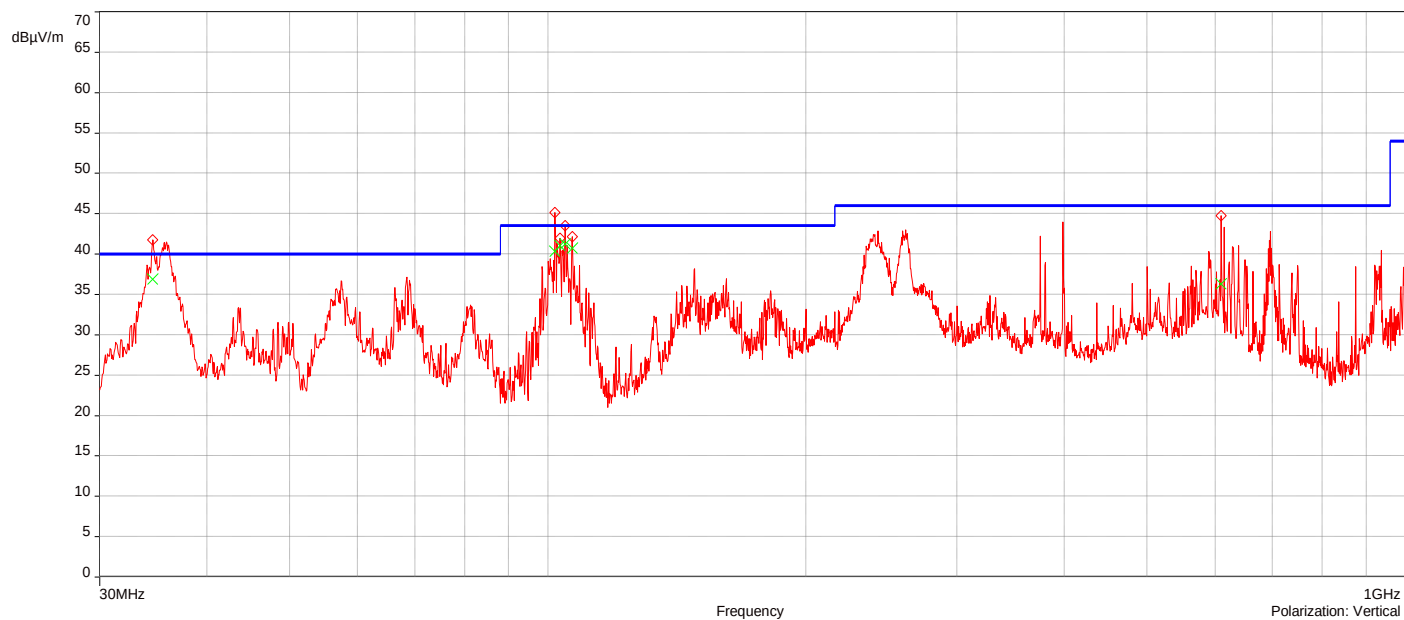
J23134 ER 3B#001_5G UNII-1 802.11ac MCS0_Ch 36_30MHz-1GHz

4/25/2025 3:17:00 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	34.564974MHz	36.89	-9.50	40.00	-3.11	1.00	268.90	Vertical	Passed
2.	101.84128MHz	40.33	-12.75	43.50	-3.17	1.25	155.10	Vertical	Passed
3.	103.3249MHz	41.03	-12.74	43.50	-2.47	1.00	113.10	Vertical	Passed
4.	104.69439MHz	41.27	-12.73	43.50	-2.23	1.00	98.10	Vertical	Passed
5.	106.69157MHz	40.75	-12.38	43.50	-2.75	1.25	134.10	Vertical	Passed
6.	609.80881MHz	36.29	-5.32	46.00	-9.71	1.00	357.90	Vertical	Passed

Overall Graphs:





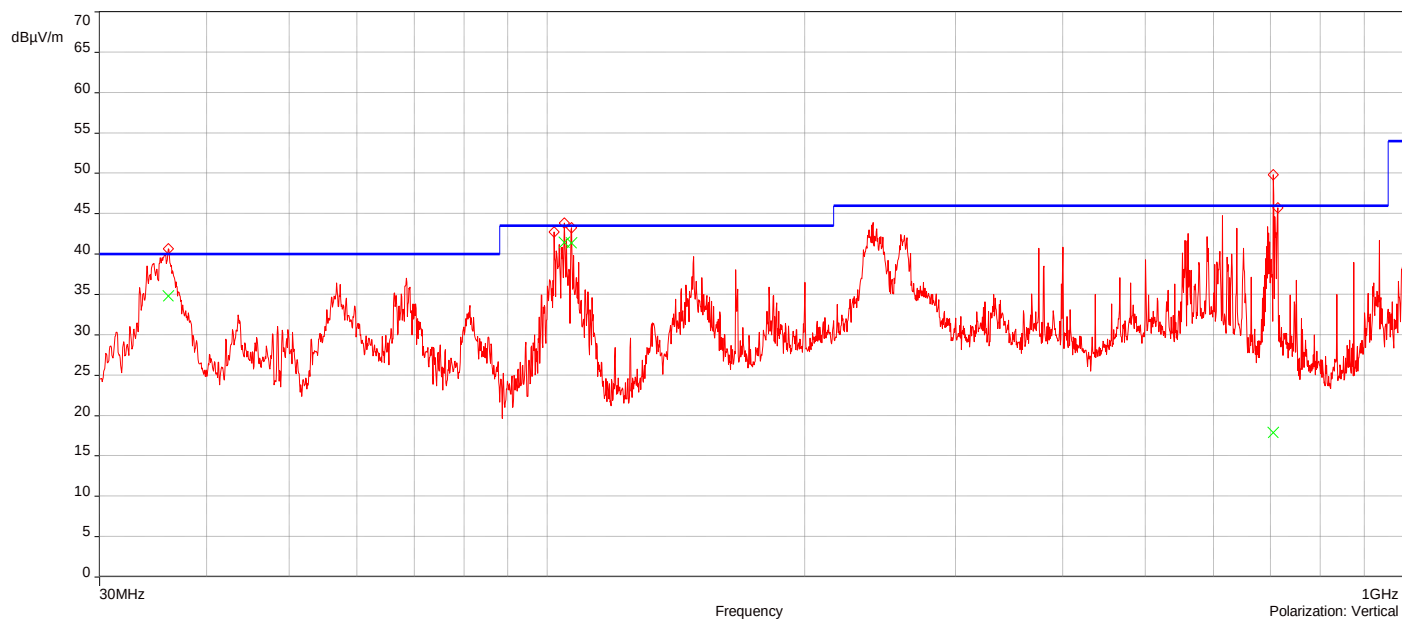
J23134 ER 3B#001_5G UNII-1 802.11ac MCS0_Ch 40_30MHz-1GHz

4/25/2025 4:14:07 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	36.105653MHz	34.78	-10.39	40.00	-5.22	1.50	351.90	Vertical	Passed
2.	104.69439MHz	41.48	-12.73	43.50	-2.02	1.00	125.90	Vertical	Passed
3.	106.69157MHz	41.41	-12.38	43.50	-2.09	1.00	120.10	Vertical	Passed
4.	704.70322MHz	17.91	-3.93	46.00	-28.09	3.75	171.90	Vertical	Passed
5.	711.43655MHz	19.23	-2.71	46.00	-26.77	2.25	0.10	Horizontal	Passed
6.	713.20548MHz	19.57	-2.68	46.00	-26.43	2.25	0.10	Horizontal	Passed

Overall Graphs:





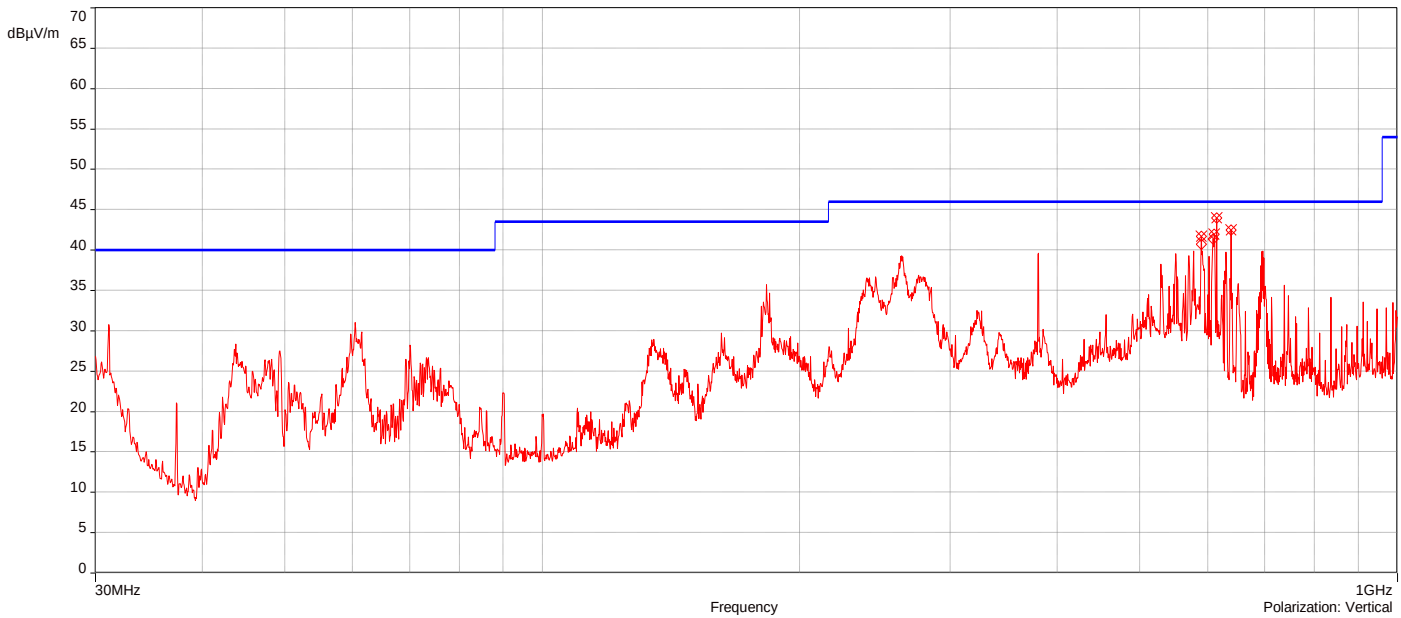
J23134 ER 3B#001_5G UNII-1 802.11n MCS0_Ch 38_30MHz-1GHz

4/25/2025 8:18:15 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	589.83705MHz	41.72	-5.52	46.00	-4.28	1.00	5.10	Vertical	Passed
2.	610.55062MHz	41.98	-5.33	46.00	-4.02	1.00	358.90	Vertical	Passed
3.	614.43085MHz	44.01	-5.28	46.00	-1.99	1.00	358.90	Vertical	Passed
4.	639.02465MHz	42.48	-4.98	46.00	-3.52	1.00	9.00	Vertical	Passed
5.	257.39279MHz	43.34	-12.66	46.00	-2.66	1.25	121.00	Horizontal	Passed
6.	639.02465MHz	41.44	-3.78	46.00	-4.56	1.50	73.60	Horizontal	Passed

Overall Graphs:





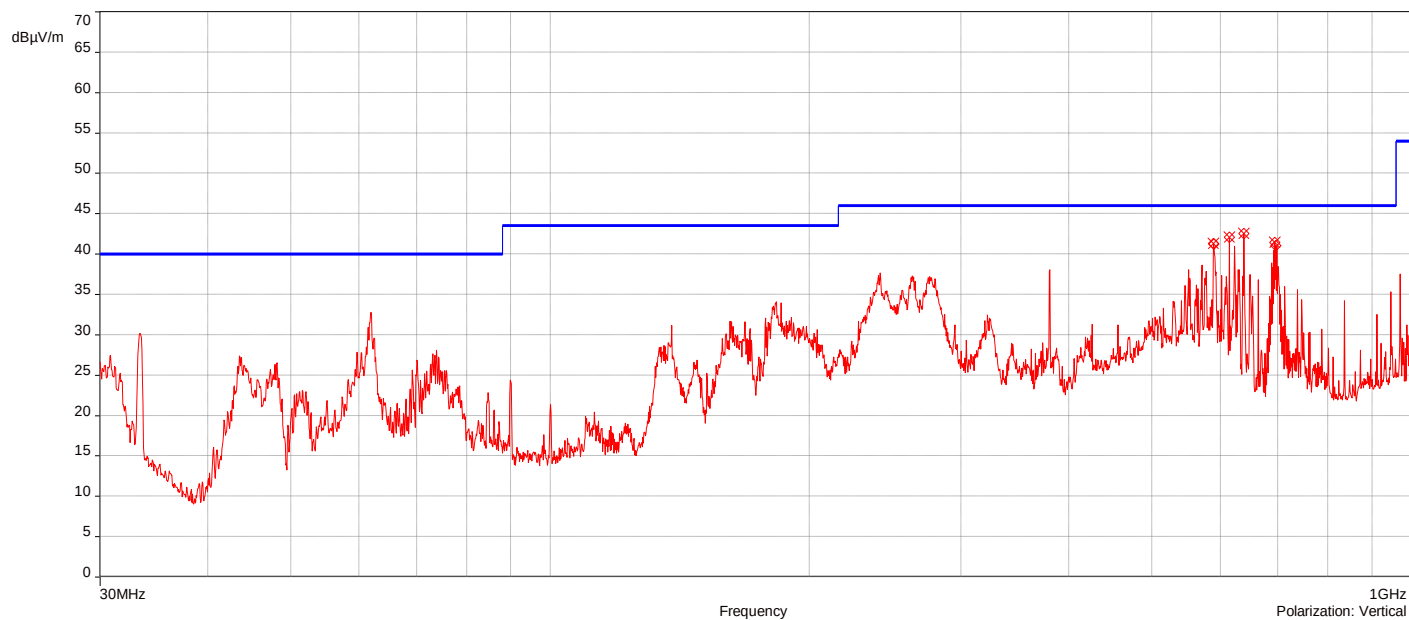
J23134 ER 3B#001_5G UNII-1 802.11ac MCS0_Ch 42_30MHz-1GHz

4/25/2025 8:47:55 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	588.92405MHz	41.29	-5.53	46.00	-4.71	1.00	346.80	Vertical	Passed
2.	614.43085MHz	42.13	-5.28	46.00	-3.87	1.00	352.00	Vertical	Passed
3.	638.96759MHz	42.53	-4.98	46.00	-3.47	1.00	4.70	Vertical	Passed
4.	694.03259MHz	41.47	-4.10	46.00	-4.53	1.00	358.90	Vertical	Passed
5.	237.82046MHz	43.35	-13.26	46.00	-2.65	1.25	124.40	Horizontal	Passed
6.	639.02465MHz	41.29	-3.78	46.00	-4.71	1.50	71.70	Horizontal	Passed

Overall Graphs:



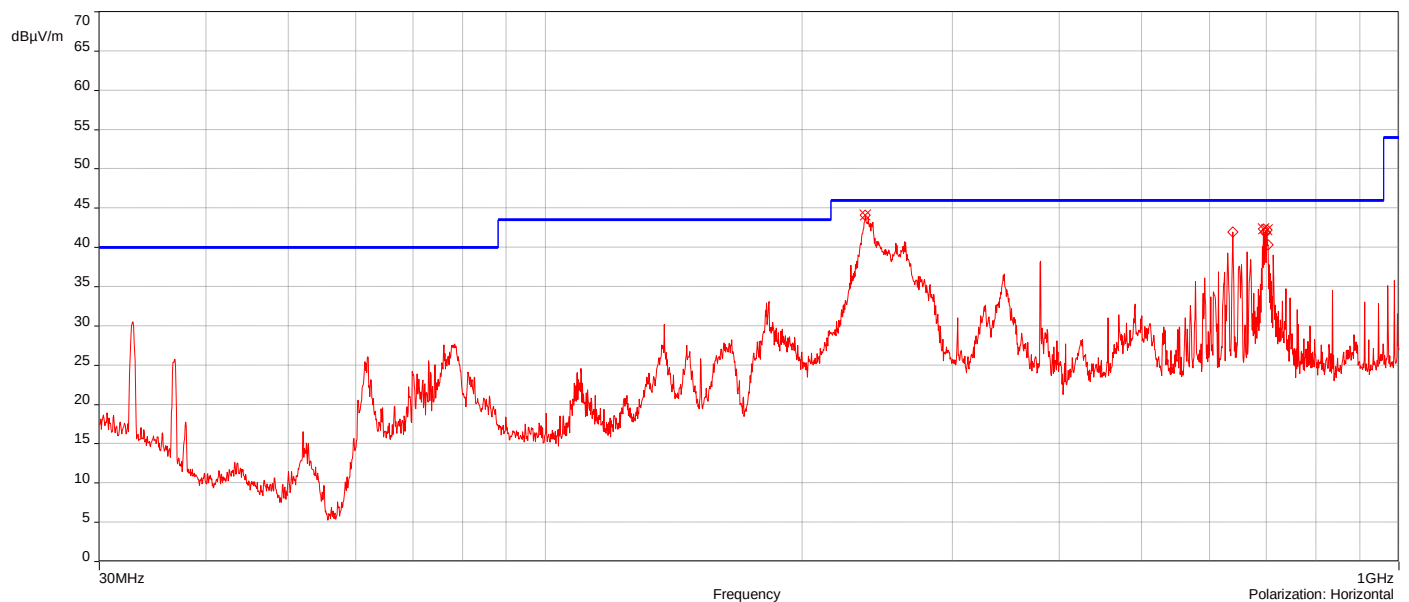


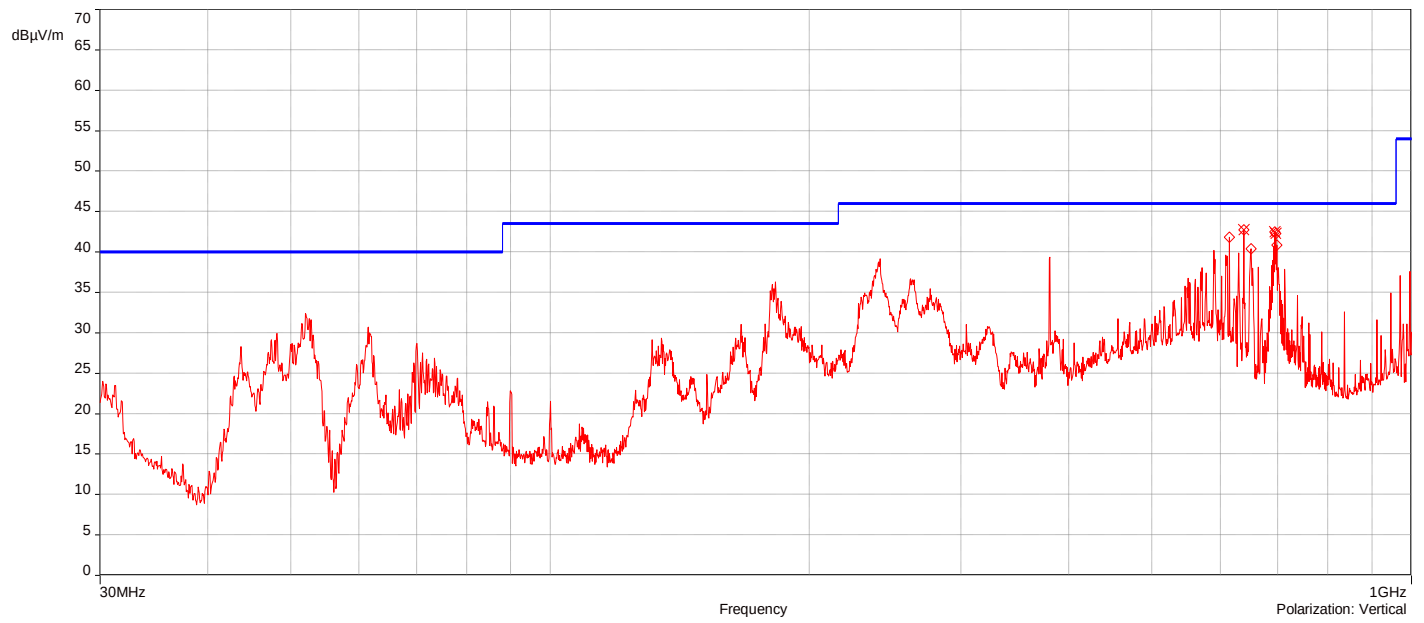
J23134 ER 3B#001_5G UNII-3 802.11a_6Mbps_Ch 165_30MHz-1GHz

4/25/2025 9:13:51 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	639.02465MHz	42.77	-4.98	46.00	-3.23	1.00	358.90	Vertical	Passed
2.	694.03259MHz	42.51	-4.10	46.00	-3.49	1.00	358.90	Vertical	Passed
3.	696.08683MHz	42.30	-4.10	46.00	-3.70	1.00	358.90	Vertical	Passed
4.	236.96453MHz	44.12	-13.27	46.00	-1.88	1.00	100.90	Horizontal	Passed
5.	694.03259MHz	42.34	-2.90	46.00	-3.66	1.25	49.10	Horizontal	Passed
6.	700.08118MHz	42.21	-2.87	46.00	-3.79	1.25	49.10	Horizontal	Passed

Overall Graphs:





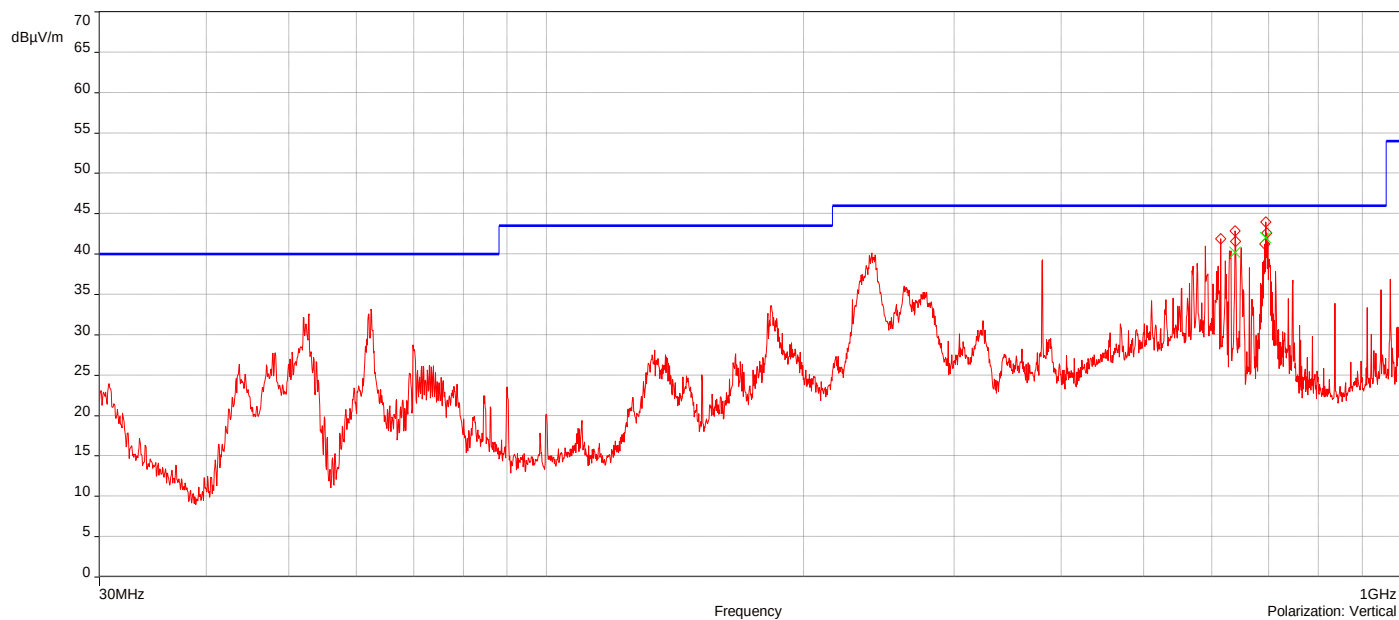
J23134 ER 3B#001_5G UNII-3 802.11ac_MCS0_Ch 157_30MHz-1GHz

4/25/2025 9:44:48 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	639.02465MHz	40.21	-4.98	46.00	-5.79	1.00	10.10	Vertical	Passed
2.	694.03259MHz	42.01	-4.10	46.00	-3.99	1.00	342.90	Vertical	Passed
3.	237.93458MHz	42.56	-13.26	46.00	-3.44	1.00	125.90	Horizontal	Passed
4.	639.02465MHz	38.17	-3.78	46.00	-7.83	1.25	326.90	Horizontal	Passed
5.	696.02977MHz	43.49	-2.89	46.00	-2.51	1.25	59.10	Horizontal	Passed
6.	698.08401MHz	40.92	-2.76	46.00	-5.08	1.25	59.10	Horizontal	Passed

Overall Graphs:





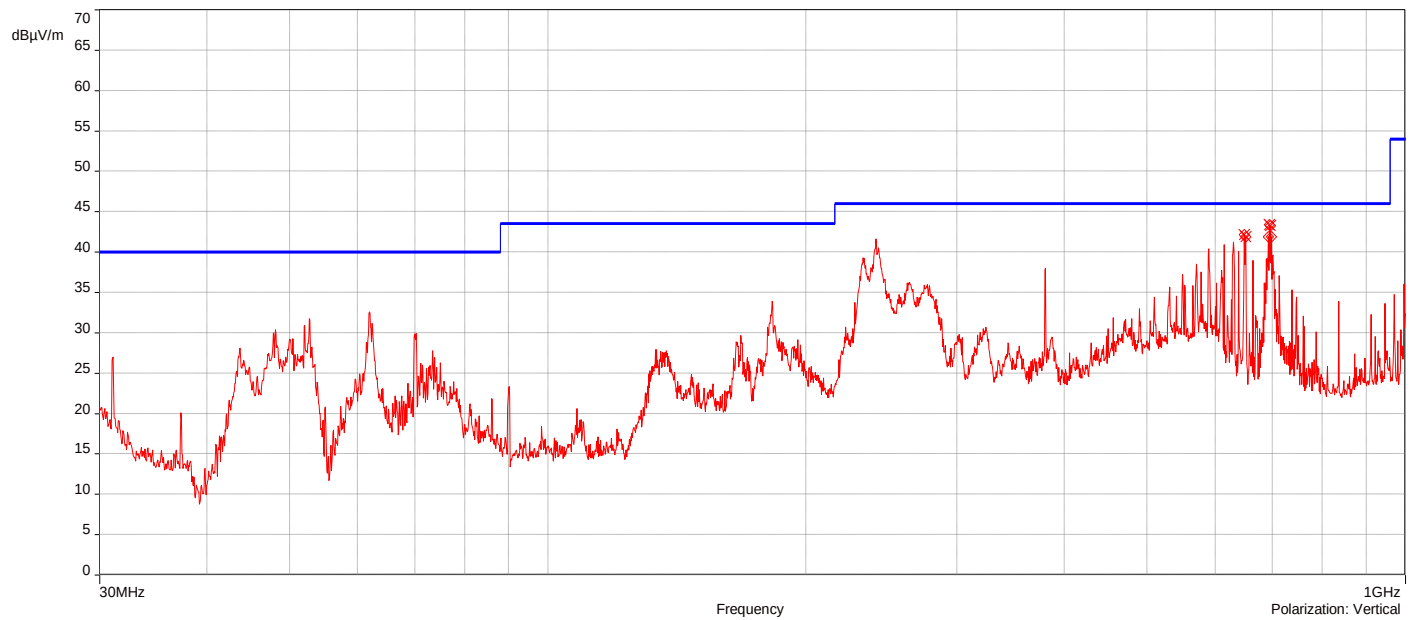
J23134 ER 3B#001_5G UNII-3 802.11ac_MCS0_Ch 165_30MHz-1GHz

4/25/2025 10:14:52 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	648.49697MHz	42.17	-4.56	46.00	-3.83	1.00	3.20	Vertical	Passed
2.	650.89358MHz	41.89	-4.42	46.00	-4.11	1.00	1.90	Vertical	Passed
3.	694.03259MHz	43.37	-4.10	46.00	-2.63	1.00	348.90	Vertical	Passed
4.	696.08683MHz	43.28	-4.10	46.00	-2.72	1.00	11.80	Vertical	Passed
5.	241.073MHz	44.39	-13.15	46.00	-1.61	1.00	107.70	Horizontal	Passed
6.	696.08683MHz	42.52	-2.89	46.00	-3.48	1.25	56.60	Horizontal	Passed

Overall Graphs:



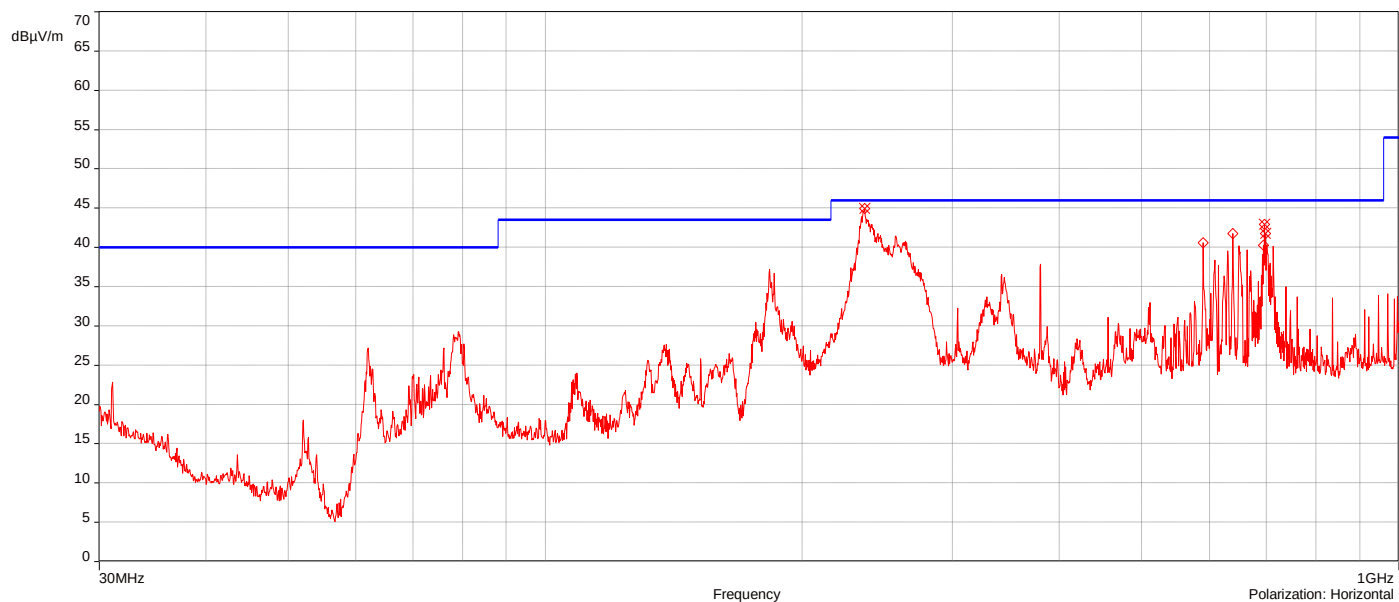


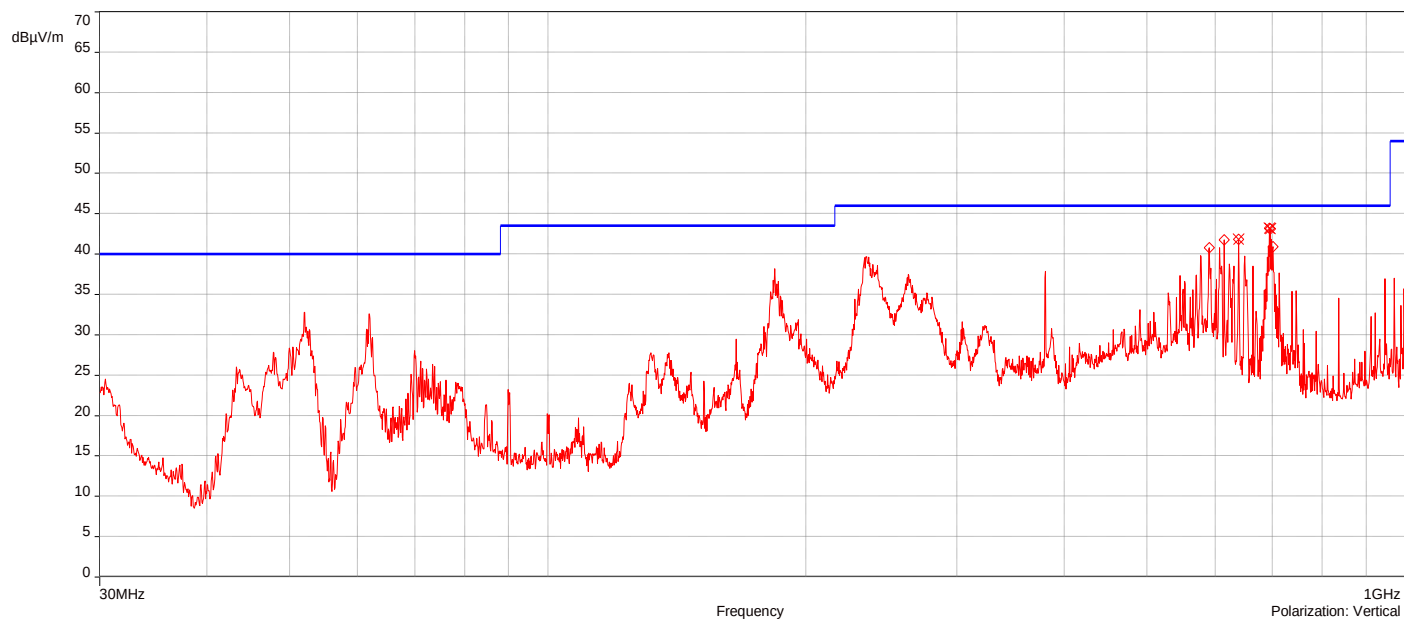
J23134 ER 3B#001_5G UNII-3 802.11ac_MCS0_Ch 151_30MHz-1GHz

4/25/2025 10:40:13 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	639.02465MHz	41.80	-4.98	46.00	-4.20	1.00	2.10	Vertical	Passed
2.	694.08965MHz	43.19	-4.10	46.00	-2.81	1.75	21.30	Vertical	Passed
3.	696.02977MHz	43.15	-4.10	46.00	-2.85	1.00	3.70	Vertical	Passed
4.	236.45097MHz	44.94	-13.32	46.00	-1.06	1.25	125.50	Horizontal	Passed
5.	696.02977MHz	42.96	-2.89	46.00	-3.04	1.25	44.40	Horizontal	Passed
6.	698.08401MHz	41.80	-2.76	46.00	-4.20	1.25	41.10	Horizontal	Passed

Overall Graphs:





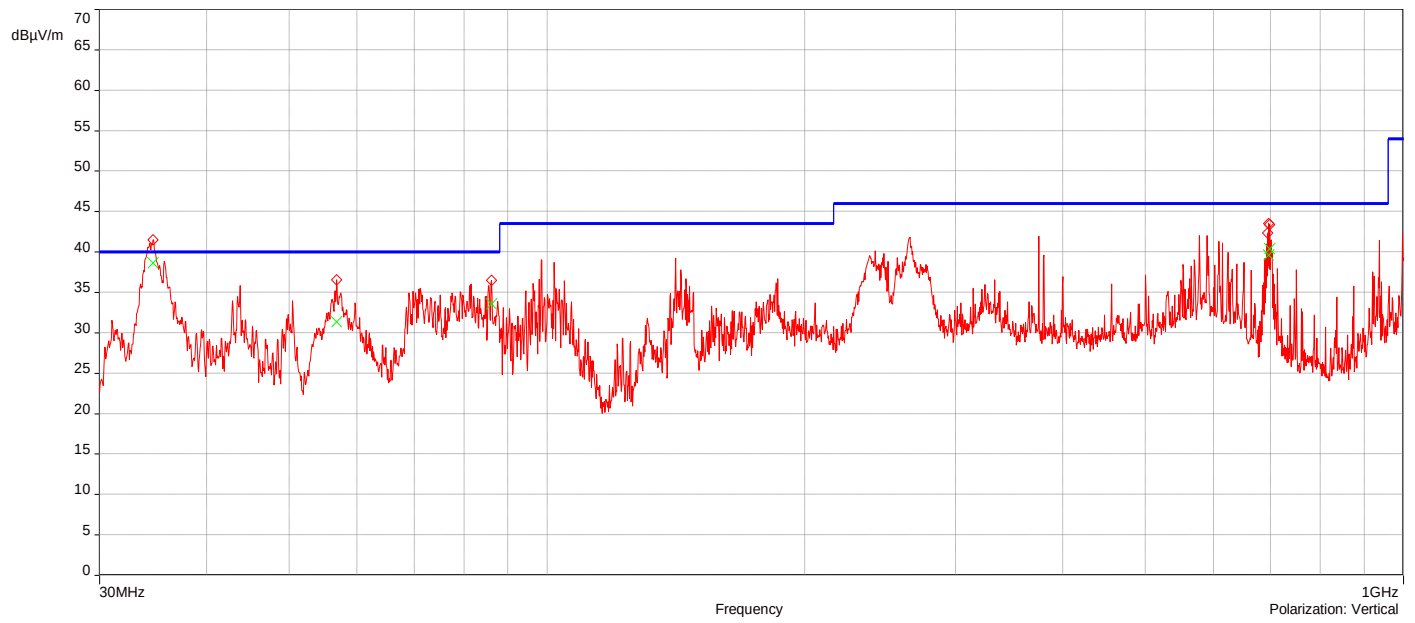
J23134 ER 3B#001_5G UNII-3 802.11ac_MCS0_Ch 155_30MHz-1GHz

4/28/2025 11:20:44 AM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	34.622037MHz	38.67	-9.54	40.00	-1.33	1.25	314.90	Vertical	Passed
2.	56.762162MHz	31.39	-19.62	40.00	-8.61	1.75	2.10	Vertical	Passed
3.	86.035061MHz	33.59	-14.62	40.00	-6.41	1.25	120.90	Vertical	Passed
4.	696.08683MHz	39.62	-4.10	46.00	-6.38	1.75	356.90	Vertical	Passed
5.	698.08401MHz	40.38	-3.97	46.00	-5.62	1.75	2.10	Vertical	Passed
6.	267.43573MHz	39.94	-12.18	46.00	-6.06	1.00	132.10	Horizontal	Passed

Overall Graphs:





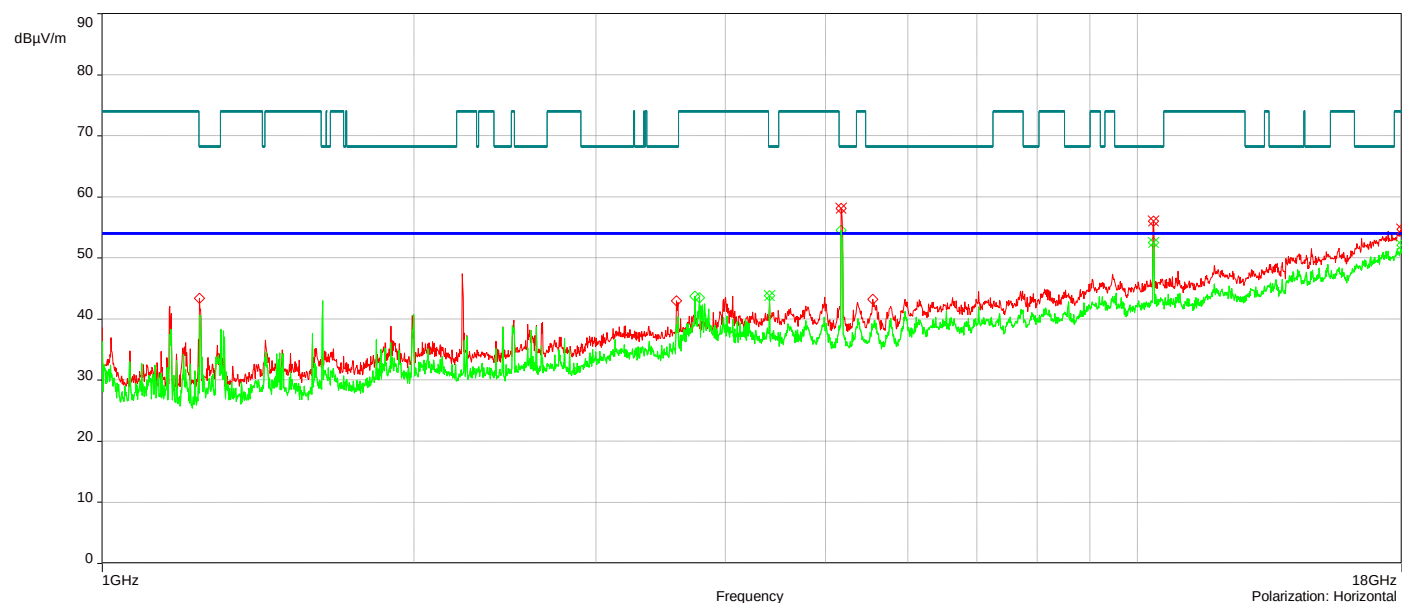
J23134 ER 3B#001_5G UNII-1 802.11a_Ch 36_1-18GHz

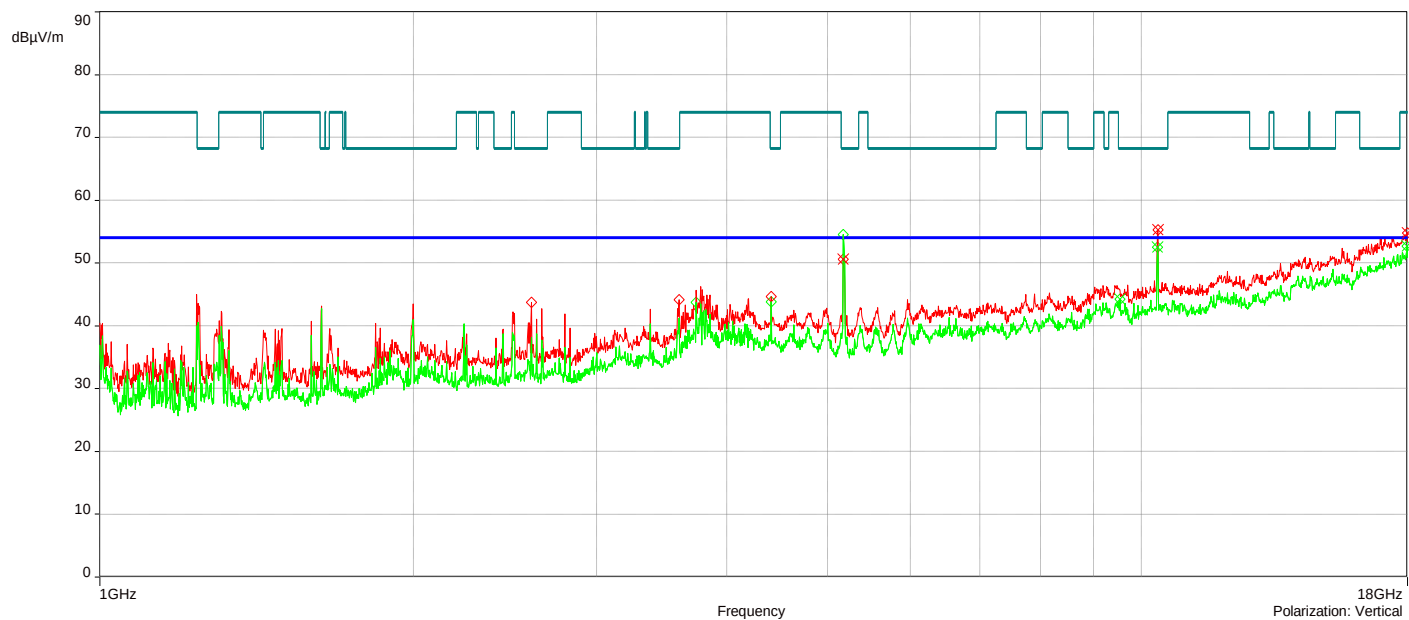
5/5/2025 4:17:58 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.1721227GHz	50.62	6.45	68.23	-17.61	4.00	66.20	Vertical	Passed
2.	10.365275GHz	55.27	11.15	68.23	-12.96	1.50	13.90	Vertical	Passed
3.	17.9965GHz	54.81	22.10	74.00	-19.19	2.00	75.10	Vertical	Passed
4.	5.1726227GHz	58.13	6.46	68.23	-10.10	1.00	352.80	Horizontal	Passed
5.	10.359275GHz	56.01	11.17	68.23	-12.22	1.50	18.80	Horizontal	Passed
6.	17.995GHz	54.73	22.03	74.00	-19.27	4.00	117.50	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	9.5357511GHz	40.42	10.86	54.00	-13.58	1.00	234.60	Vertical	Passed
2.	10.363775GHz	44.70	11.14	54.00	-9.3	1.50	0.20	Vertical	Passed
3.	17.973999GHz	51.84	21.59	54.00	-2.16	1.50	359.90	Vertical	Passed
4.	4.4096003GHz	34.21	4.97	54.00	-19.79	4.00	0.10	Horizontal	Passed
5.	10.363775GHz	46.87	11.16	54.00	-7.13	1.50	10.20	Horizontal	Passed
6.	17.9965GHz	51.93	22.06	54.00	-2.07	3.00	0.10	Horizontal	Passed

Overall Graphs:





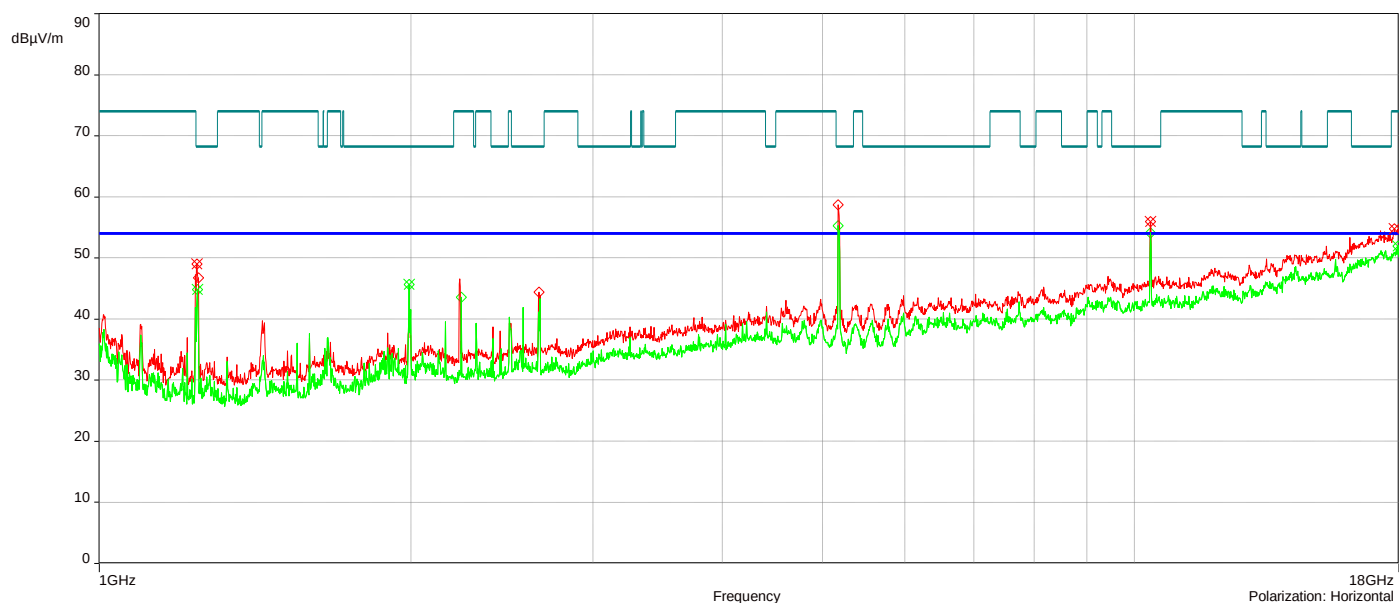
J23134 ER 3B#001_5G UNII-1 802.11ac_Ch 36_1-18GHz

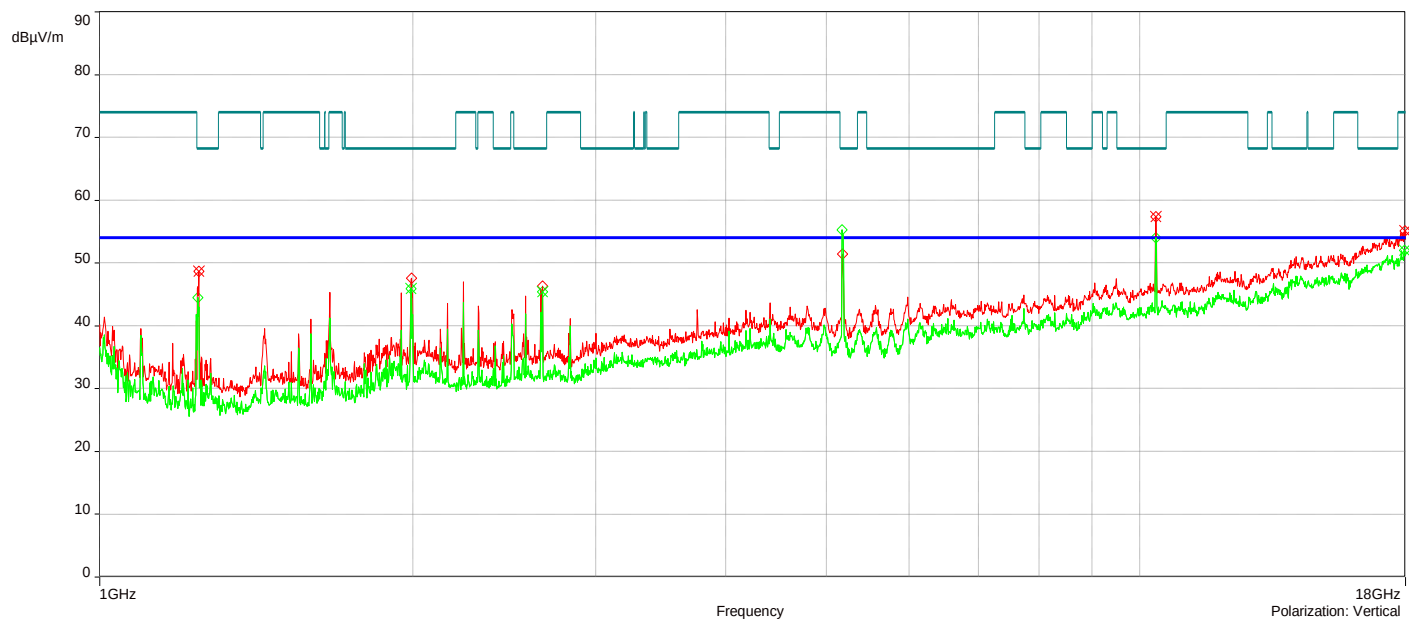
5/2/2025 3:39:19 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.2460072GHz	48.72	-7.99	68.23	-19.51	3.50	250.50	Vertical	Passed
2.	10.355275GHz	57.37	11.15	68.23	-10.86	2.50	41.70	Vertical	Passed
3.	17.975499GHz	55.14	21.63	74.00	-18.86	3.00	279.60	Vertical	Passed
4.	1.2420071GHz	49.05	-7.92	68.23	-19.18	2.50	337.60	Horizontal	Passed
5.	10.357775GHz	55.95	11.17	68.23	-12.28	1.50	14.30	Horizontal	Passed
6.	17.819495GHz	54.83	20.28	74.00	-19.17	1.50	262.20	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	1.9920292GHz	29.50	-2.62	54.00	-24.5	3.00	68.90	Vertical	Passed
2.	2.6640489GHz	27.72	-0.52	54.00	-26.28	2.50	222.20	Vertical	Passed
3.	17.964999GHz	52.36	21.35	54.00	-1.64	1.50	0.00	Vertical	Passed
4.	1.2440072GHz	22.25	-7.89	54.00	-31.75	4.00	359.90	Horizontal	Passed
5.	1.9920292GHz	26.12	-2.91	54.00	-27.88	3.00	0.00	Horizontal	Passed
6.	17.964999GHz	51.75	21.32	54.00	-2.25	1.50	88.60	Horizontal	Passed

Overall Graphs:





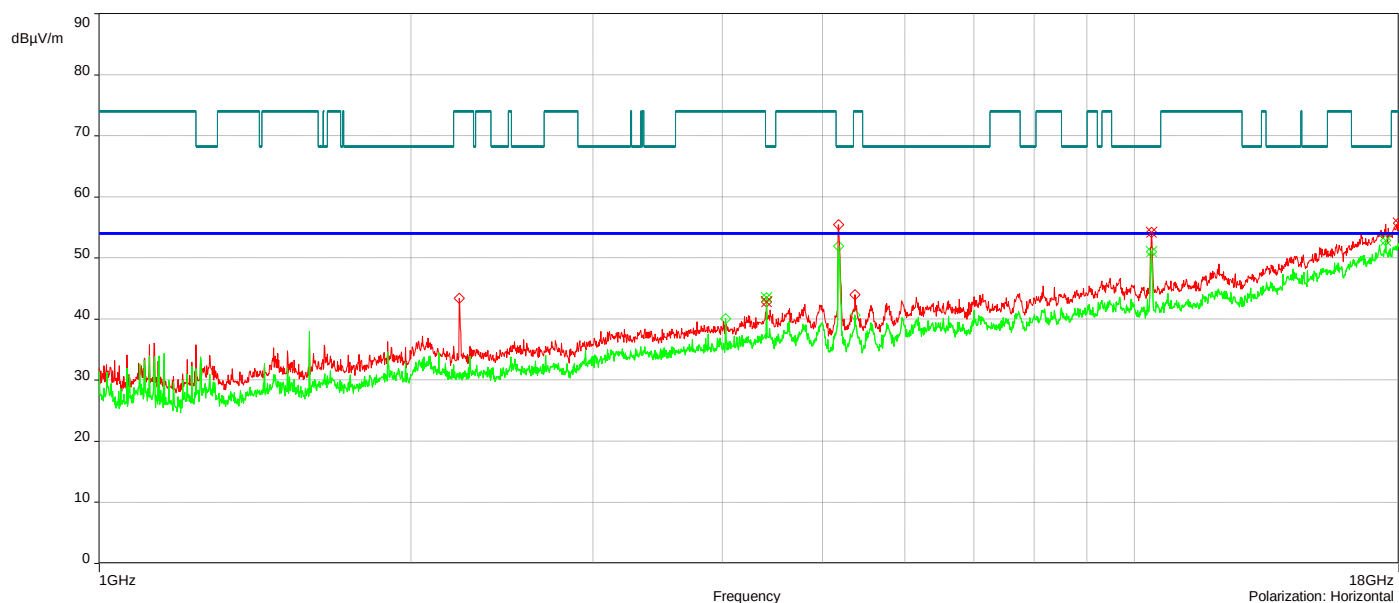
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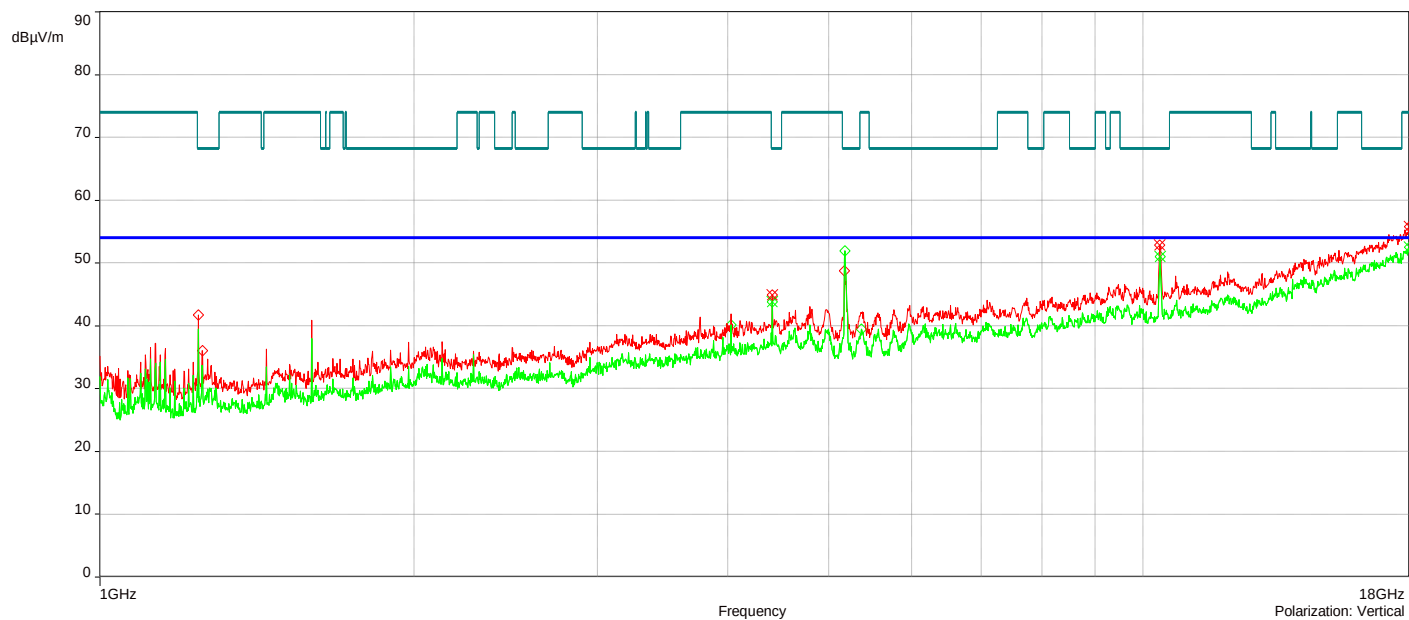
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	4.4096003GHz	44.88	4.71	68.23	-23.35	3.50	328.50	Vertical	Passed
2.	10.371276GHz	52.88	10.56	68.23	-15.35	1.00	51.40	Vertical	Passed
3.	17.9965GHz	55.76	22.54	74.00	-18.24	3.00	221.90	Vertical	Passed
4.	4.4096003GHz	42.85	4.75	68.23	-25.38	4.00	359.90	Horizontal	Passed
5.	10.382776GHz	54.21	10.56	68.23	-14.02	1.50	321.70	Horizontal	Passed
6.	17.9855GHz	55.68	22.16	74.00	-18.32	1.00	148.20	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	4.4096003GHz	40.42	4.71	54.00	-13.58	3.50	328.50	Vertical	Passed
2.	10.379276GHz	43.34	10.57	54.00	-10.66	1.50	359.90	Vertical	Passed
3.	17.9915GHz	52.97	22.38	54.00	-1.03	1.00	0.00	Vertical	Passed
4.	4.4096003GHz	33.28	4.75	54.00	-20.72	4.00	359.90	Horizontal	Passed
5.	10.379276GHz	45.10	10.56	54.00	-8.9	1.50	321.70	Horizontal	Passed
6.	17.478485GHz	51.45	20.46	54.00	-2.55	1.50	0.10	Horizontal	Passed

Overall Graphs:





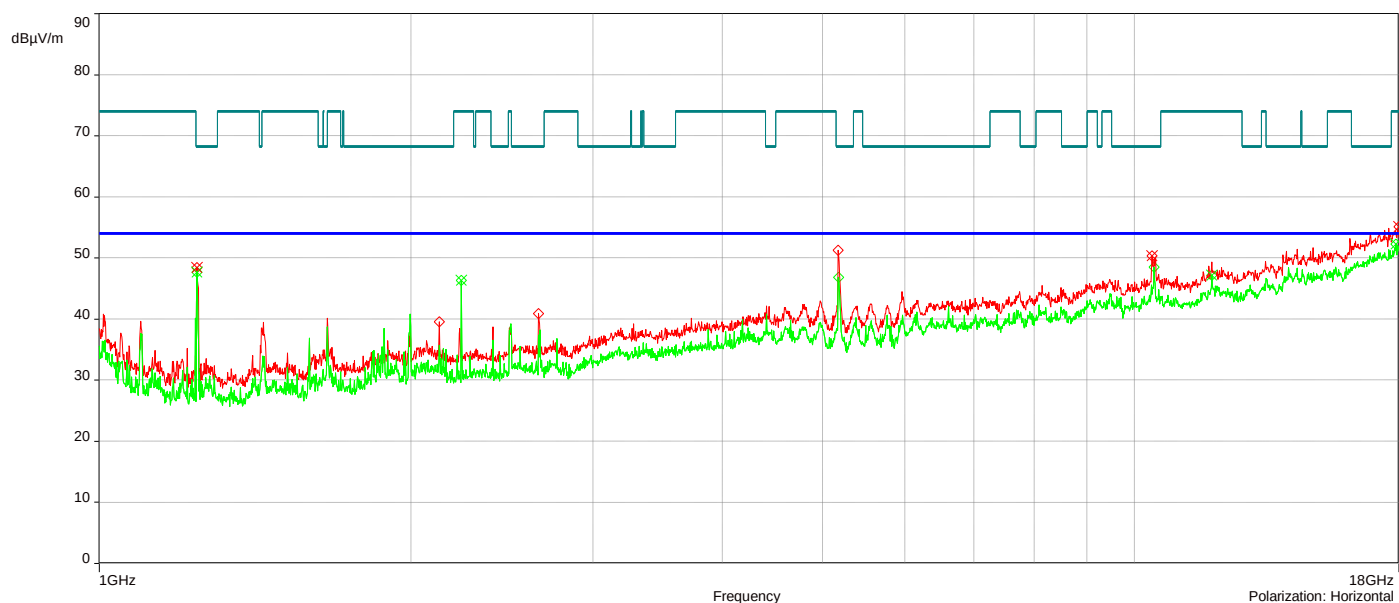
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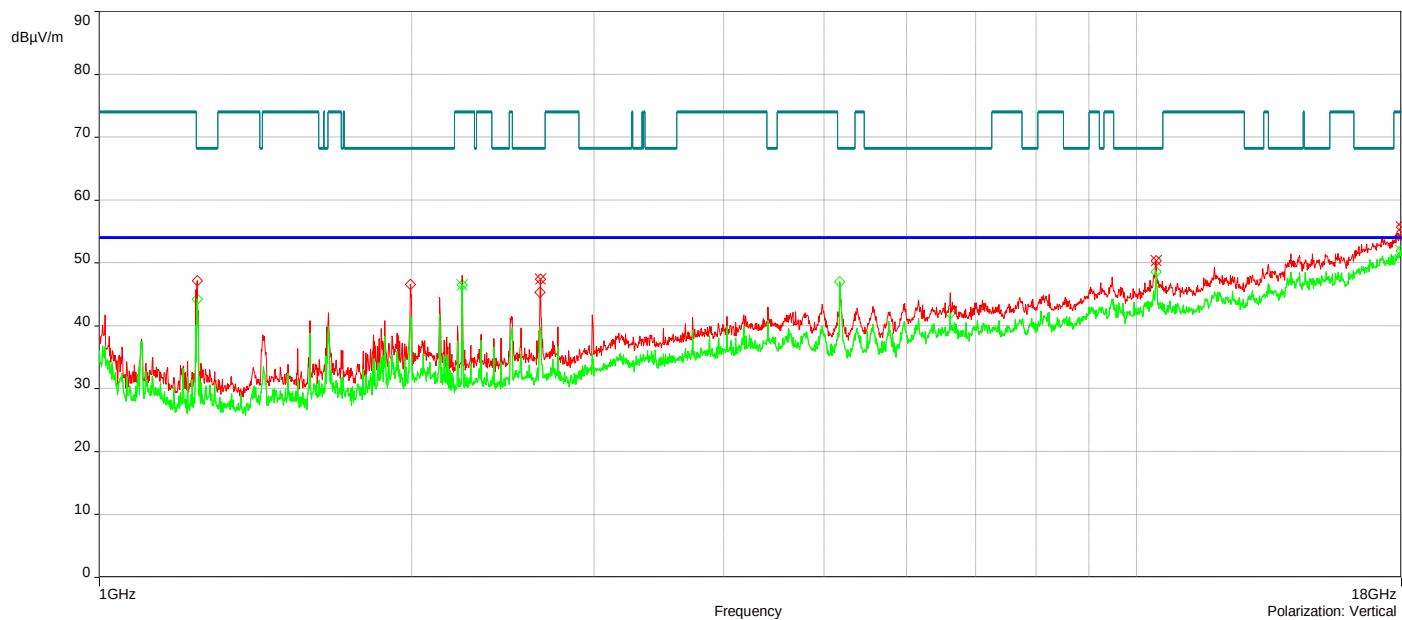
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.6615489GHz	47.41	-0.50	68.23	-20.82	1.50	98.40	Vertical	Passed
2.	10.436278GHz	50.39	11.63	68.23	-17.84	1.50	14.00	Vertical	Passed
3.	17.992GHz	55.75	22.01	74.00	-18.25	3.50	61.20	Vertical	Passed
4.	1.2430071GHz	48.44	-7.91	68.23	-19.79	3.00	359.90	Horizontal	Passed
5.	10.399276GHz	50.34	11.35	68.23	-17.89	1.50	14.90	Horizontal	Passed
6.	17.996GHz	55.17	22.05	74.00	-18.83	1.50	92.30	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.2380364GHz	26.46	-2.55	54.00	-27.54	1.00	253.20	Vertical	Passed
2.	17.986GHz	52.13	21.87	54.00	-1.87	1.50	128.10	Vertical	Passed
3.	1.2430071GHz	24.54	-7.91	54.00	-29.46	3.00	359.90	Horizontal	Passed
4.	2.2380364GHz	25.37	-2.70	54.00	-28.63	1.00	0.10	Horizontal	Passed
5.	11.86732GHz	43.03	13.20	54.00	-10.97	3.00	24.30	Horizontal	Passed
6.	17.883997GHz	52.32	20.47	54.00	-1.68	4.00	0.10	Horizontal	Passed

Overall Graphs:





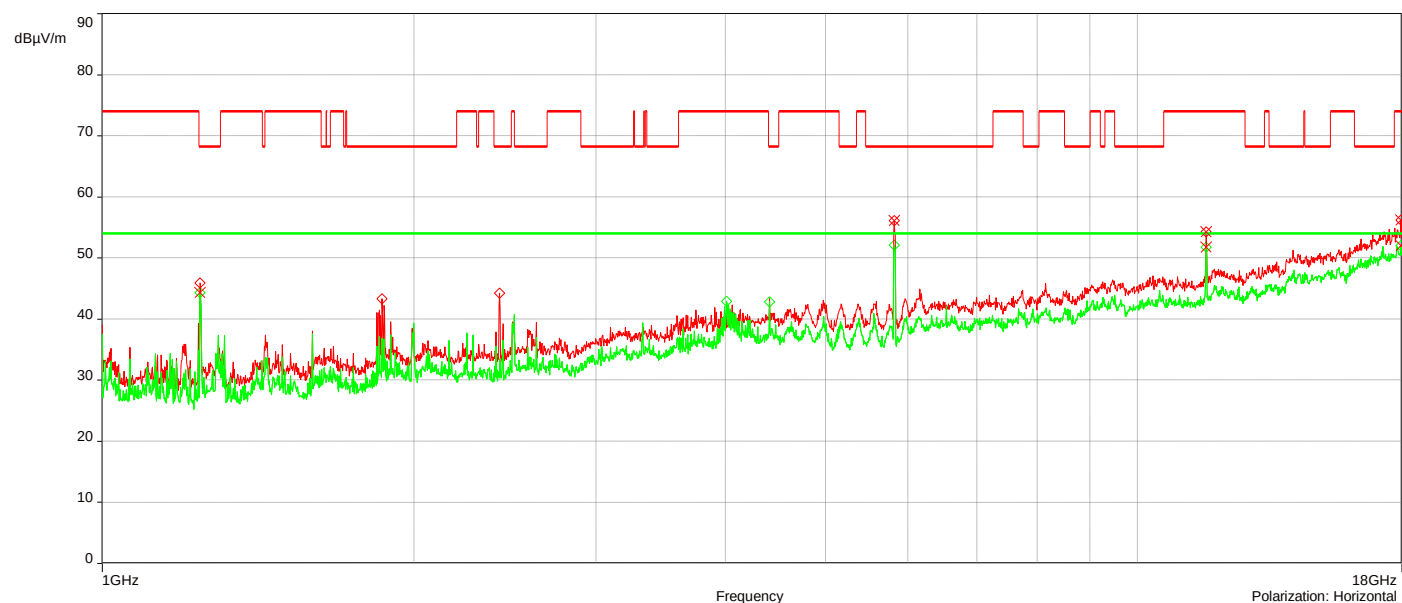
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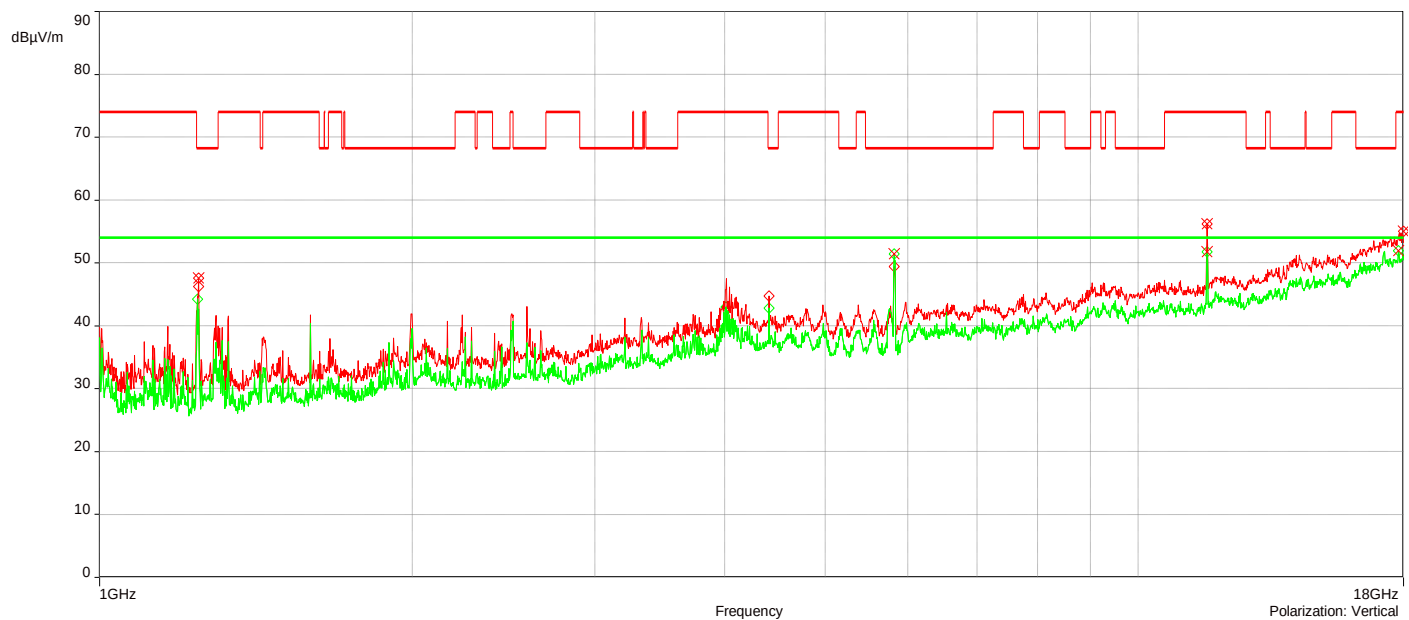
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.2460072GHz	47.61	-7.99	68.23	-20.62	2.00	237.90	Vertical	Passed
2.	11.650313GHz	56.18	12.63	74.00	-17.82	4.00	59.90	Vertical	Passed
3.	17.9945GHz	55.02	22.06	74.00	-18.98	3.00	276.90	Vertical	Passed
4.	5.8171417GHz	56.14	6.83	68.23	-12.09	1.00	37.40	Horizontal	Passed
5.	11.647313GHz	54.29	12.65	74.00	-19.71	1.00	307.00	Horizontal	Passed
6.	17.951499GHz	56.24	20.97	74.00	-17.76	1.00	46.50	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	5.8186417GHz	39.92	6.83	54.00	-14.08	1.50	359.90	Vertical	Passed
2.	11.648813GHz	44.87	12.63	54.00	-9.13	1.00	43.20	Vertical	Passed
3.	17.795994GHz	50.88	20.20	54.00	-3.12	1.00	271.90	Vertical	Passed
4.	1.2430071GHz	22.07	-7.91	54.00	-31.93	2.00	359.90	Horizontal	Passed
5.	11.648813GHz	45.29	12.66	54.00	-8.71	1.00	359.90	Horizontal	Passed
6.	17.951499GHz	52.37	20.97	54.00	-1.63	1.00	46.50	Horizontal	Passed

Overall Graphs:





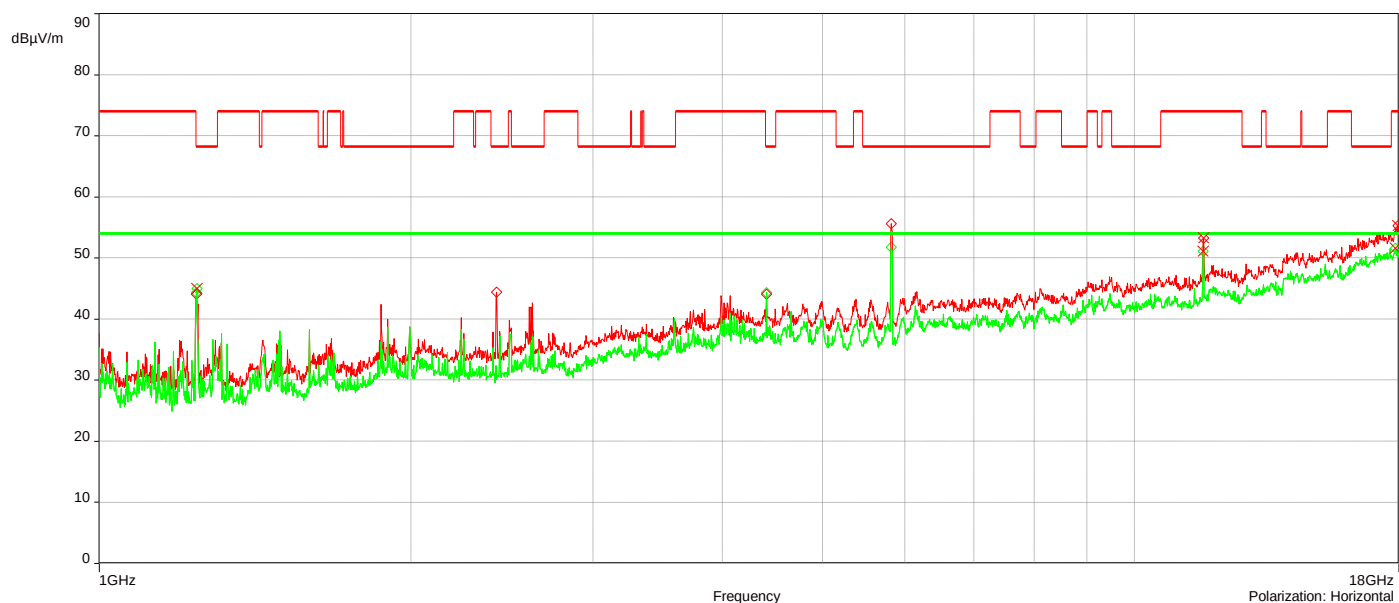
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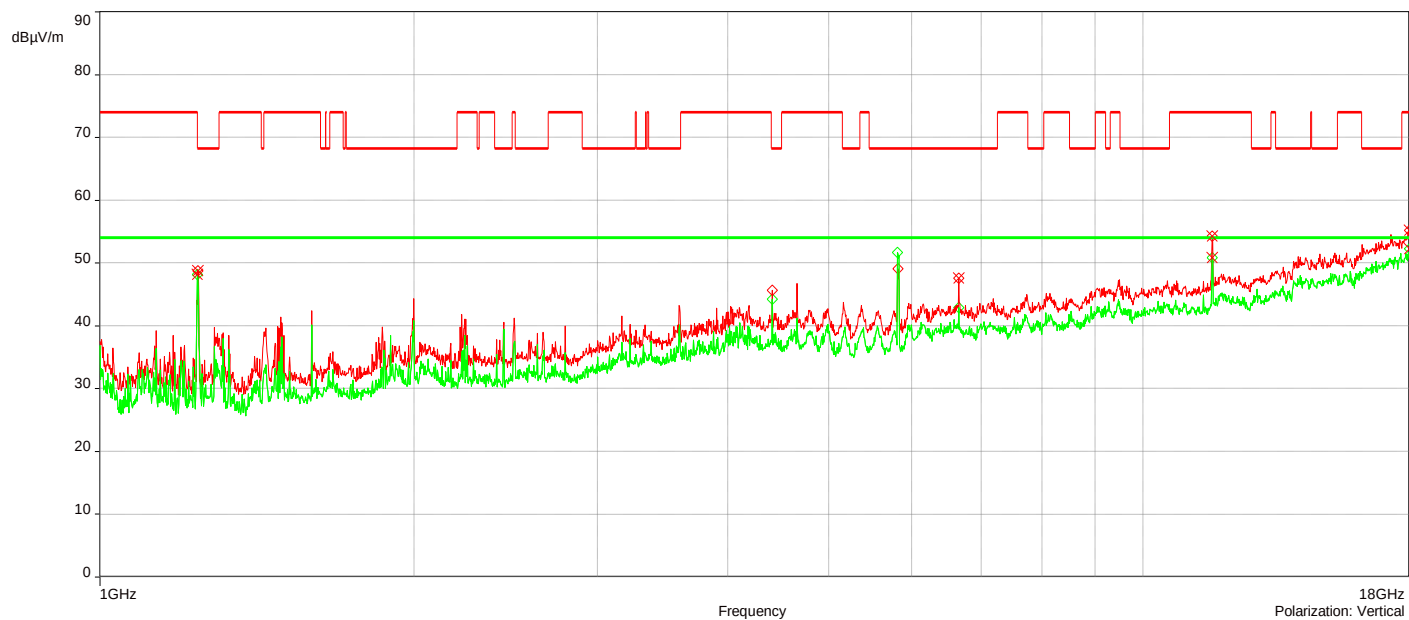
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.2415071GHz	48.80	-8.03	68.23	-19.43	3.50	142.60	Vertical	Passed
2.	6.6581664GHz	47.56	7.86	68.23	-20.67	1.50	86.70	Vertical	Passed
3.	11.646313GHz	54.28	12.62	74.00	-19.72	1.00	289.40	Vertical	Passed
4.	17.996GHz	55.23	22.09	74.00	-18.77	1.50	357.80	Vertical	Passed
5.	11.651813GHz	53.31	12.67	74.00	-20.69	1.00	70.30	Horizontal	Passed
6.	17.965499GHz	55.30	21.33	74.00	-18.70	3.50	161.80	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	1.2400071GHz	21.81	-8.04	54.00	-32.19	1.00	359.90	Vertical	Passed
2.	11.646313GHz	44.27	12.62	54.00	-9.73	1.00	289.40	Vertical	Passed
3.	17.996GHz	52.22	22.09	54.00	-1.78	1.50	357.80	Vertical	Passed
4.	1.2425071GHz	22.72	-7.91	54.00	-31.28	4.00	0.00	Horizontal	Passed
5.	11.650313GHz	45.44	12.67	54.00	-8.56	1.00	2.40	Horizontal	Passed
6.	17.864496GHz	51.83	20.47	54.00	-2.17	2.50	346.80	Horizontal	Passed

Overall Graphs:





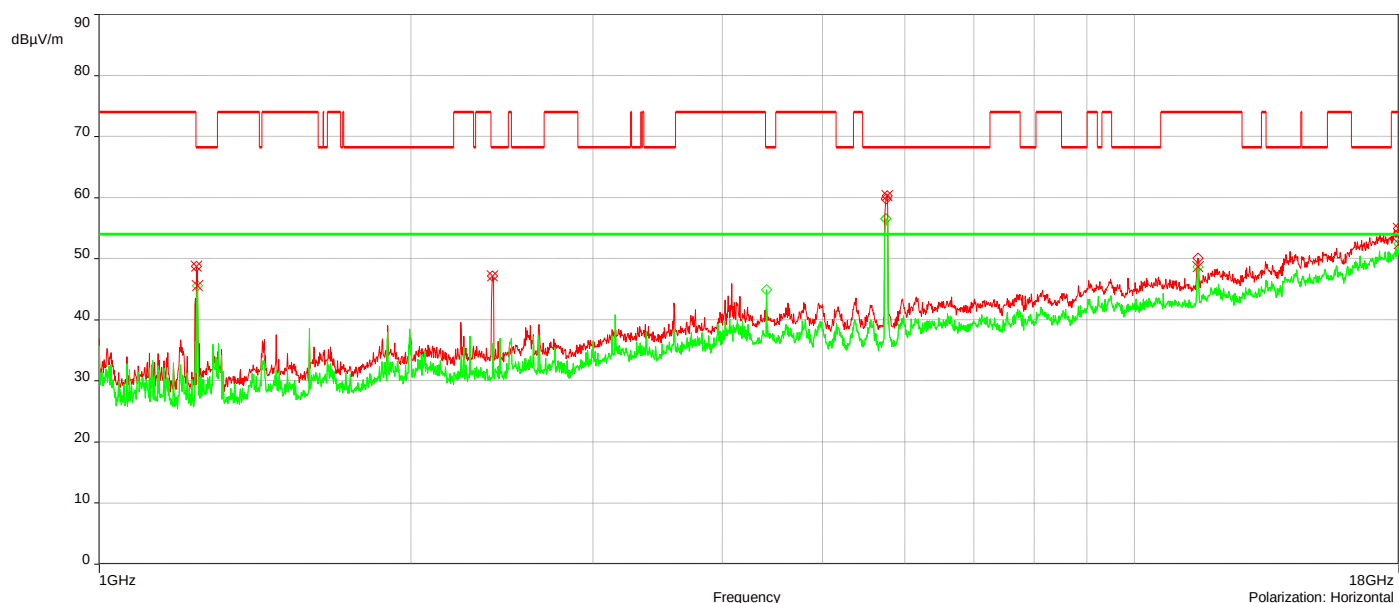
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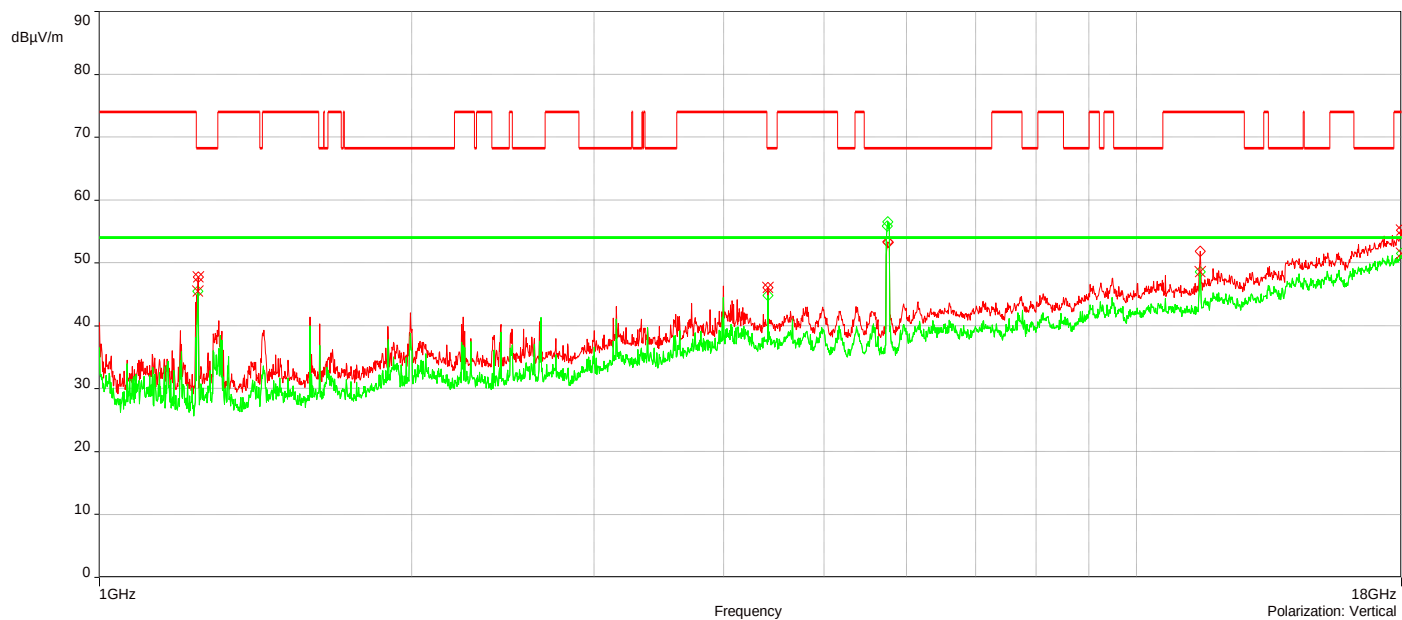
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.2450072GHz	47.81	-8.00	68.23	-20.42	1.50	9.40	Vertical	Passed
2.	4.4096003GHz	46.10	4.93	68.23	-22.13	3.00	344.50	Vertical	Passed
3.	17.9995GHz	55.24	22.17	74.00	-18.76	4.00	134.30	Vertical	Passed
4.	1.2410071GHz	48.76	-7.93	68.23	-19.47	1.00	240.00	Horizontal	Passed
5.	2.3975411GHz	47.17	-2.05	68.23	-21.06	1.00	0.00	Horizontal	Passed
6.	5.7681402GHz	60.27	6.72	68.23	-7.96	1.00	37.80	Horizontal	Passed
7.	17.979999GHz	54.94	21.71	74.00	-19.06	3.00	194.30	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	1.2435072GHz	26.03	-8.01	54.00	-27.97	2.50	359.90	Vertical	Passed
2.	11.515309GHz	45.06	12.36	54.00	-8.94	4.00	58.30	Vertical	Passed
3.	17.999GHz	52.17	22.16	54.00	-1.83	3.00	0.10	Vertical	Passed
4.	1.2435072GHz	26.08	-7.90	54.00	-27.92	2.50	219.50	Horizontal	Passed
5.	11.515309GHz	42.76	12.45	54.00	-11.24	4.00	359.90	Horizontal	Passed
6.	17.9955GHz	52.78	22.04	54.00	-1.22	4.00	38.20	Horizontal	Passed

Overall Graphs:





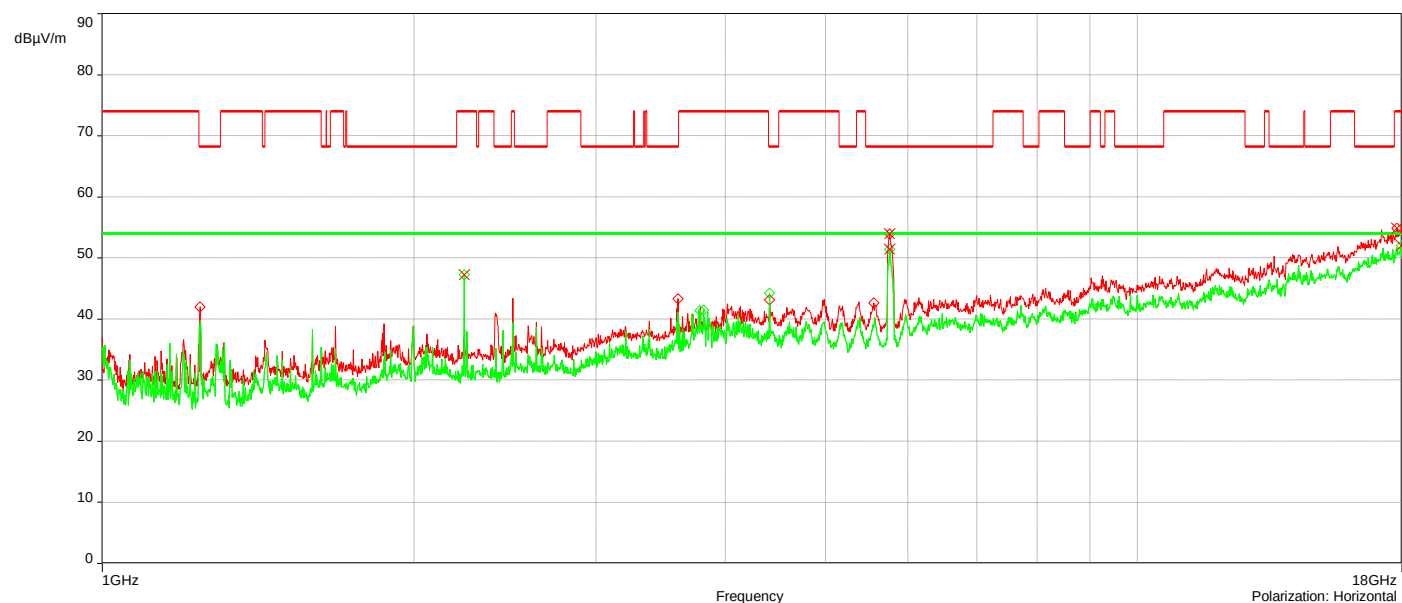
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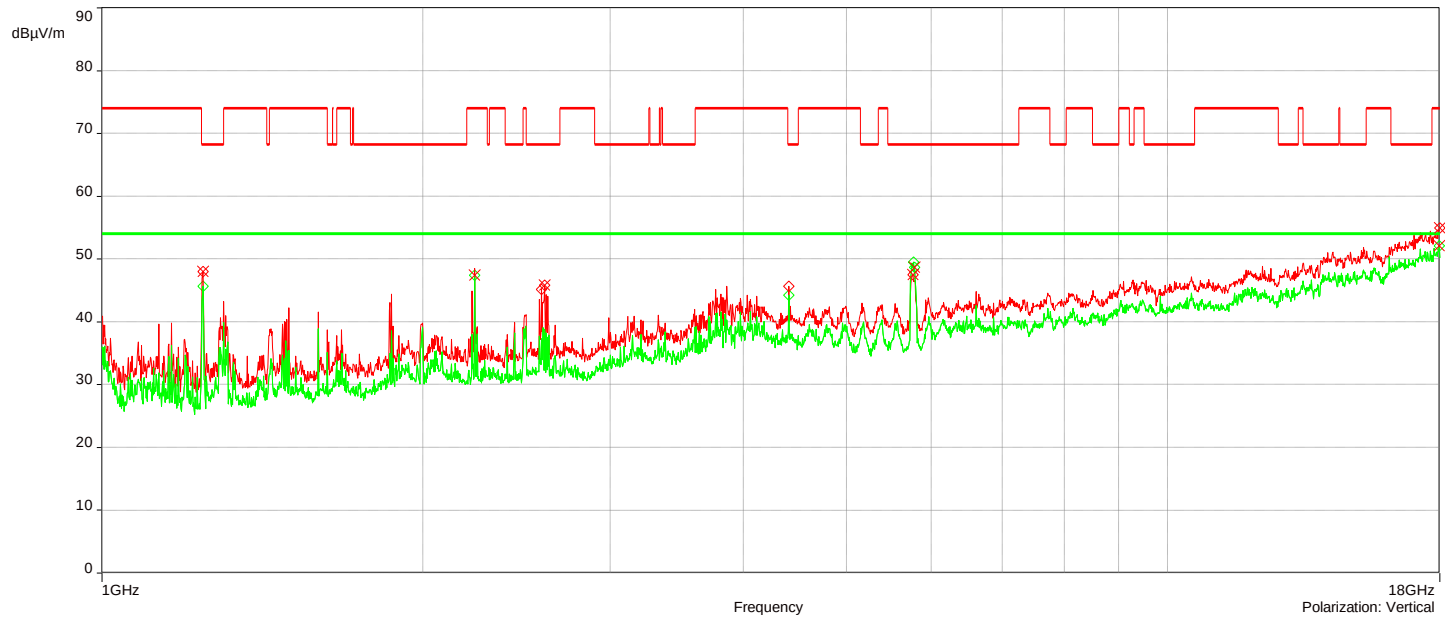
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1.2435072GHz	47.98	-8.01	68.23	-20.25	3.50	357.70	Vertical	Passed
2.	2.6005471GHz	45.81	-0.81	68.23	-22.42	3.00	0.10	Vertical	Passed
3.	5.7651402GHz	47.50	6.76	68.23	-20.73	4.00	343.40	Vertical	Passed
4.	17.9955GHz	54.98	22.08	74.00	-19.02	4.00	343.40	Vertical	Passed
5.	5.7626401GHz	53.95	6.73	68.23	-14.28	1.50	0.00	Horizontal	Passed
6.	17.801994GHz	54.91	20.18	74.00	-19.09	4.00	197.30	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.2375364GHz	27.82	-2.56	54.00	-26.18	1.00	285.90	Vertical	Passed
2.	5.7841407GHz	36.46	6.74	54.00	-17.54	1.50	359.90	Vertical	Passed
3.	17.981499GHz	52.36	21.78	54.00	-1.64	2.50	359.90	Vertical	Passed
4.	2.2375364GHz	26.25	-2.70	54.00	-27.75	1.00	0.00	Horizontal	Passed
5.	5.76064GHz	47.71	6.72	54.00	-6.29	1.00	42.80	Horizontal	Passed
6.	17.981499GHz	51.96	21.74	54.00	-2.04	2.50	305.50	Horizontal	Passed

Overall Graphs:





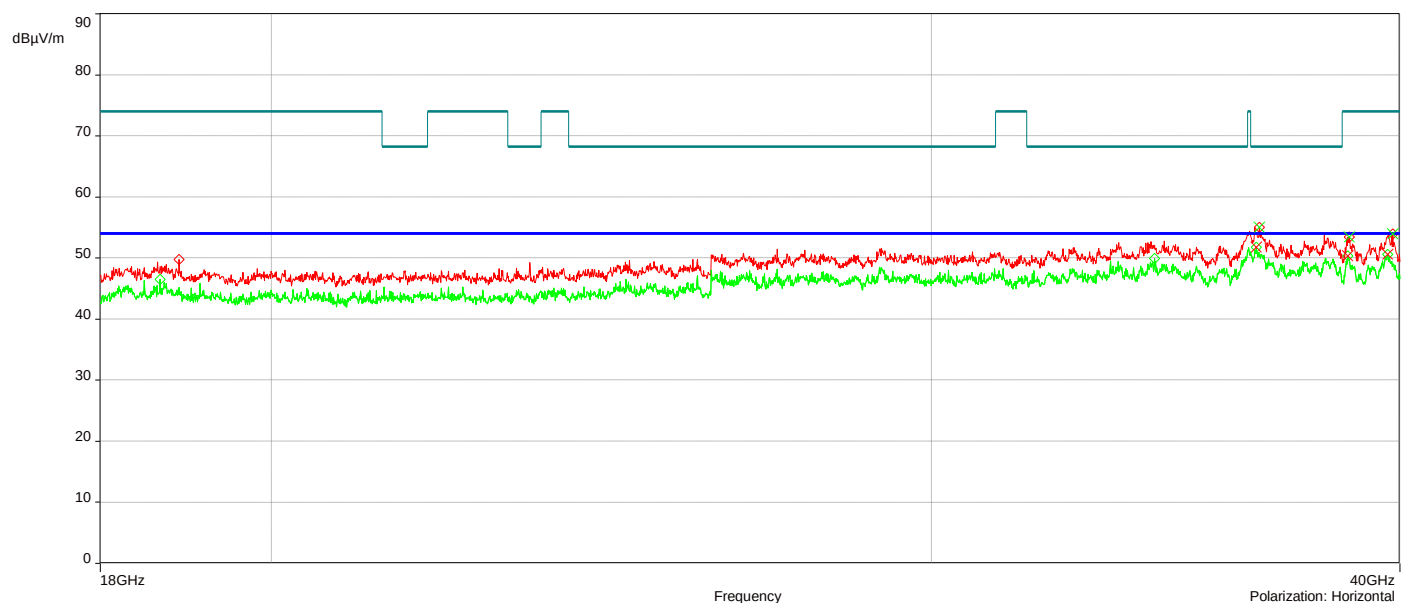
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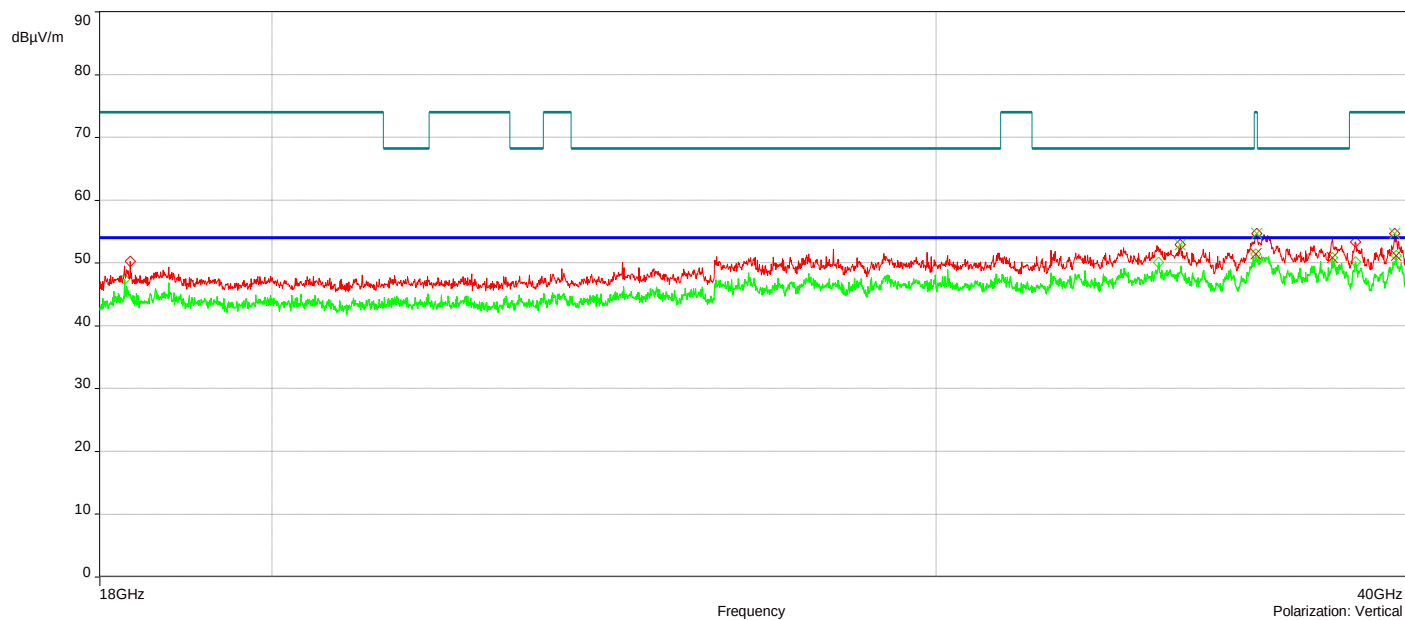
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	34.812882GHz	52.93	7.17	68.23	-15.30	3.97	67.40	Vertical	Passed
2.	36.47842GHz	54.73	4.90	74.00	-19.27	2.80	67.40	Vertical	Passed
3.	39.688493GHz	54.69	8.24	74.00	-19.31	3.79	202.40	Vertical	Passed
4.	36.686425GHz	55.06	4.86	68.23	-13.17	2.42	44.90	Horizontal	Passed
5.	38.772472GHz	53.46	6.81	74.00	-20.54	3.47	292.40	Horizontal	Passed
6.	39.823496GHz	53.93	8.12	74.00	-20.07	2.34	67.40	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	36.46142GHz	51.47	5.15	54.00	-2.53	3.59	157.40	Vertical	Passed
2.	38.211459GHz	50.87	7.21	54.00	-3.13	1.03	44.90	Vertical	Passed
3.	39.730994GHz	51.19	8.18	54.00	-2.81	3.54	134.90	Vertical	Passed
4.	36.619423GHz	51.79	4.59	54.00	-2.21	1.27	314.90	Horizontal	Passed
5.	38.739471GHz	50.34	7.36	54.00	-3.66	1.96	292.40	Horizontal	Passed
6.	39.693993GHz	50.58	8.29	54.00	-3.42	2.54	292.40	Horizontal	Passed

Overall Graphs:





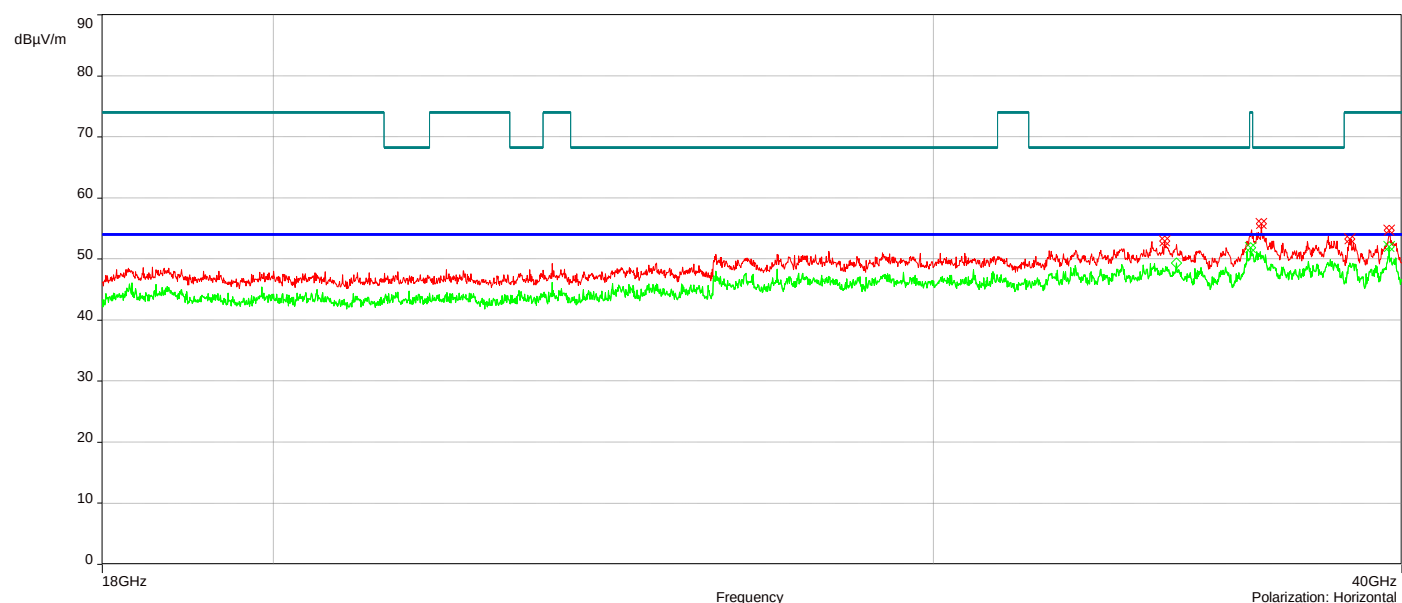
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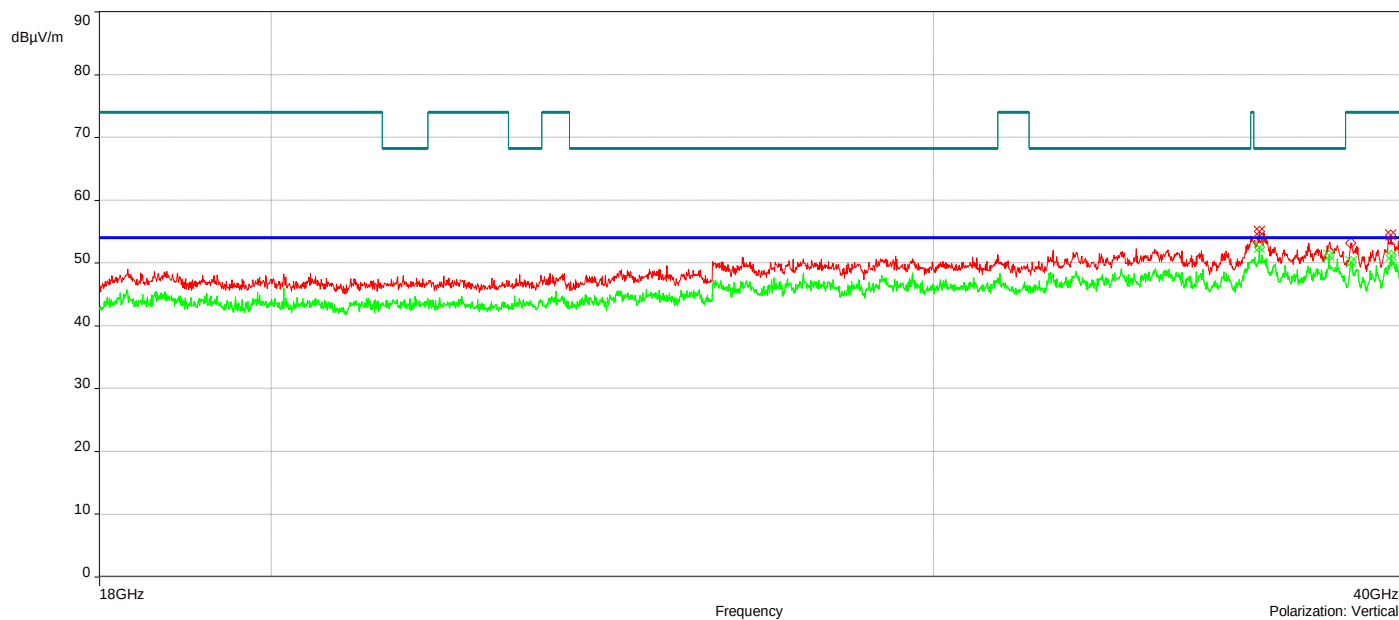
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	36.624923GHz	55.05	4.63	68.23	-13.18	1.03	292.60	Vertical	Passed
2.	39.692993GHz	54.47	8.28	74.00	-19.53	1.03	157.70	Vertical	Passed
3.	34.580877GHz	52.93	7.59	68.23	-15.30	3.97	247.60	Horizontal	Passed
4.	36.687925GHz	55.77	4.86	68.23	-12.46	1.78	0.10	Horizontal	Passed
5.	38.733471GHz	53.30	7.24	74.00	-20.70	1.03	315.10	Horizontal	Passed
6.	39.683493GHz	54.73	8.17	74.00	-19.27	2.02	112.60	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	36.618923GHz	52.55	4.60	54.00	-1.45	1.59	157.70	Vertical	Passed
2.	38.214459GHz	51.17	7.19	54.00	-2.83	3.86	67.50	Vertical	Passed
3.	38.741471GHz	50.21	7.43	54.00	-3.79	2.33	67.50	Vertical	Passed
4.	39.701993GHz	51.22	8.33	54.00	-2.78	3.97	135.00	Vertical	Passed
5.	36.448419GHz	51.88	5.28	54.00	-2.12	1.65	202.70	Horizontal	Passed
6.	39.683493GHz	52.03	8.17	54.00	-1.97	2.02	112.60	Horizontal	Passed

Overall Graphs:





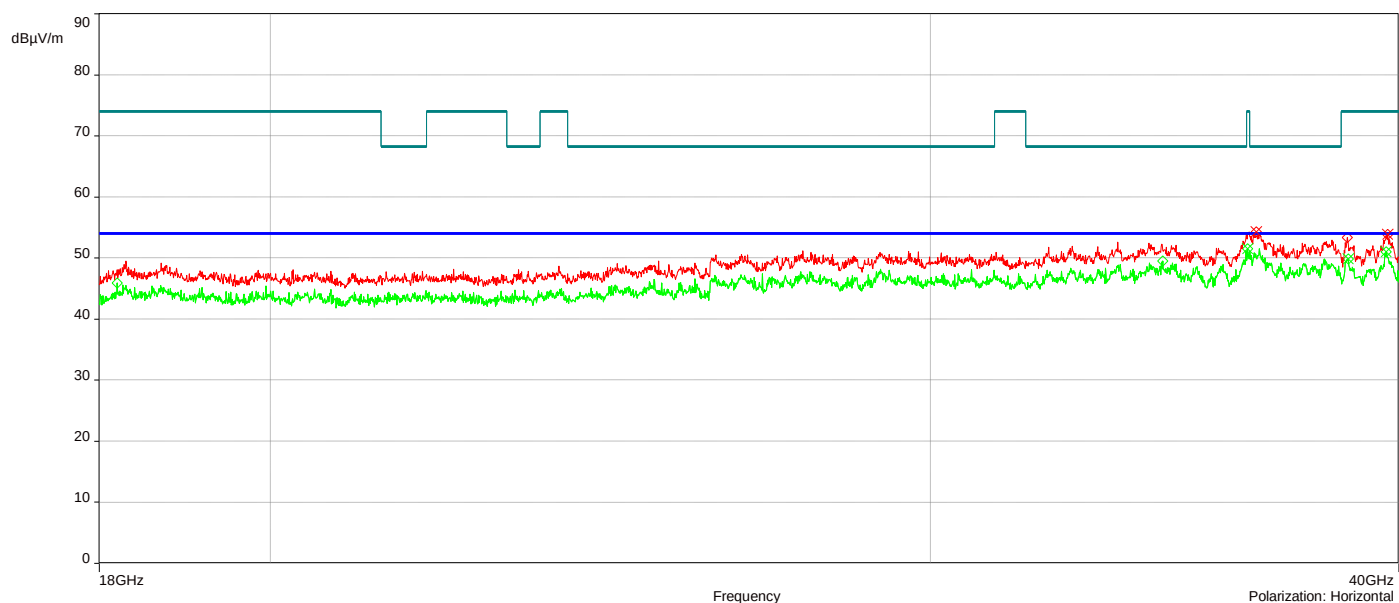
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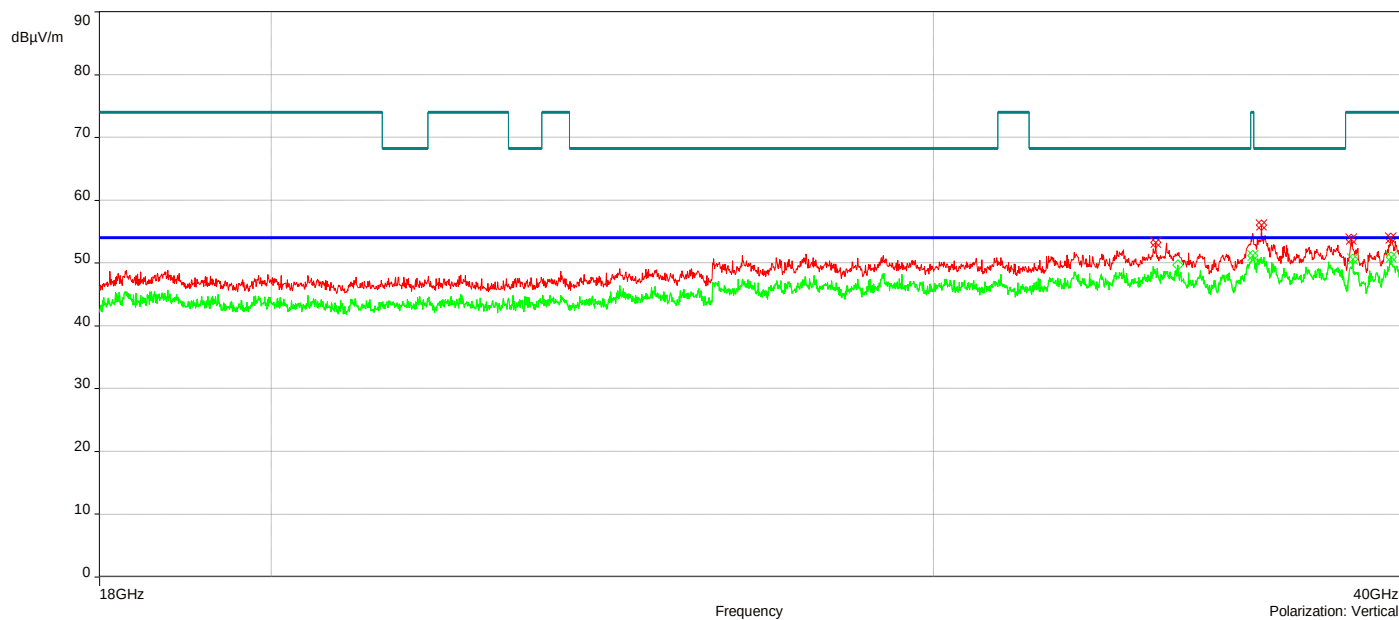
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	34.364372GHz	53.27	7.54	68.23	-14.96	2.93	134.90	Vertical	Passed
2.	36.670424GHz	56.06	4.82	68.23	-12.17	2.92	314.90	Vertical	Passed
3.	38.743471GHz	53.81	7.48	74.00	-20.19	3.68	179.90	Vertical	Passed
4.	39.686993GHz	54.00	8.23	74.00	-20.00	2.78	67.40	Vertical	Passed
5.	36.644424GHz	54.26	4.72	68.23	-13.97	1.82	134.90	Horizontal	Passed
6.	39.729494GHz	53.86	8.15	74.00	-20.14	1.98	247.40	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	36.47092GHz	51.16	5.01	54.00	-2.84	3.63	0.10	Vertical	Passed
2.	38.772972GHz	50.59	6.85	54.00	-3.41	2.36	89.90	Vertical	Passed
3.	39.699493GHz	50.93	8.34	54.00	-3.07	3.77	112.40	Vertical	Passed
4.	36.451419GHz	51.50	5.30	54.00	-2.50	2.36	247.40	Horizontal	Passed
5.	38.771472GHz	49.88	6.84	54.00	-4.12	1.78	22.40	Horizontal	Passed
6.	39.693493GHz	51.04	8.28	54.00	-2.96	4.00	22.40	Horizontal	Passed

Overall Graphs:





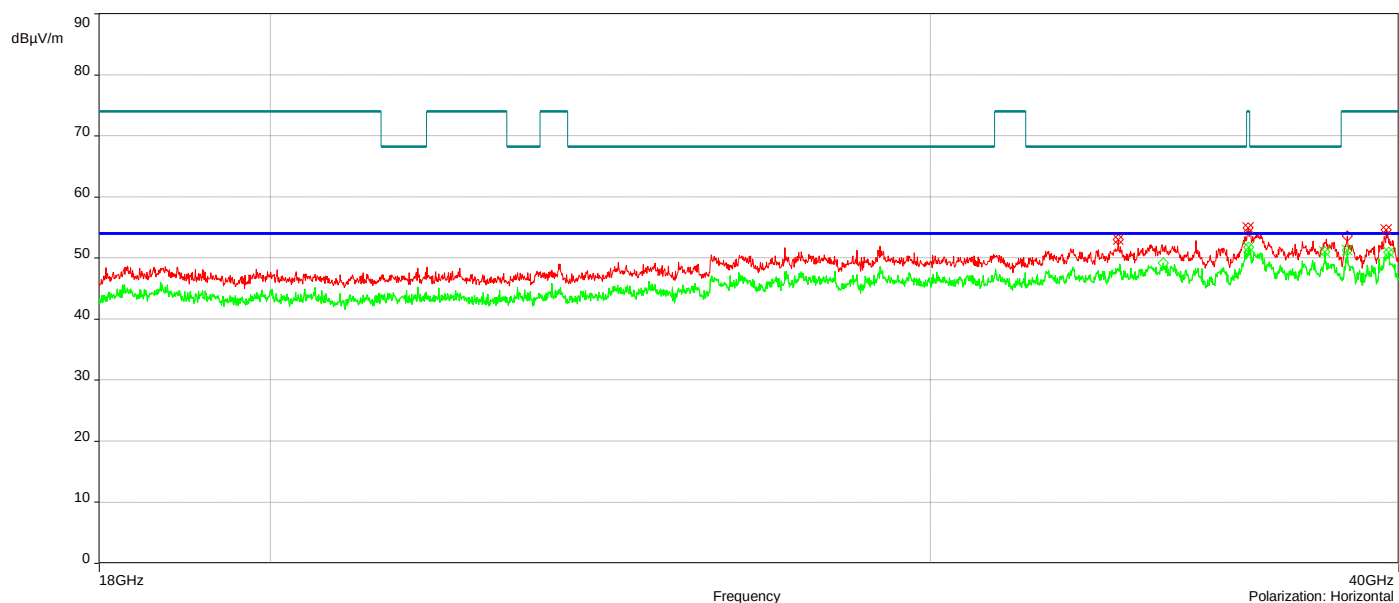
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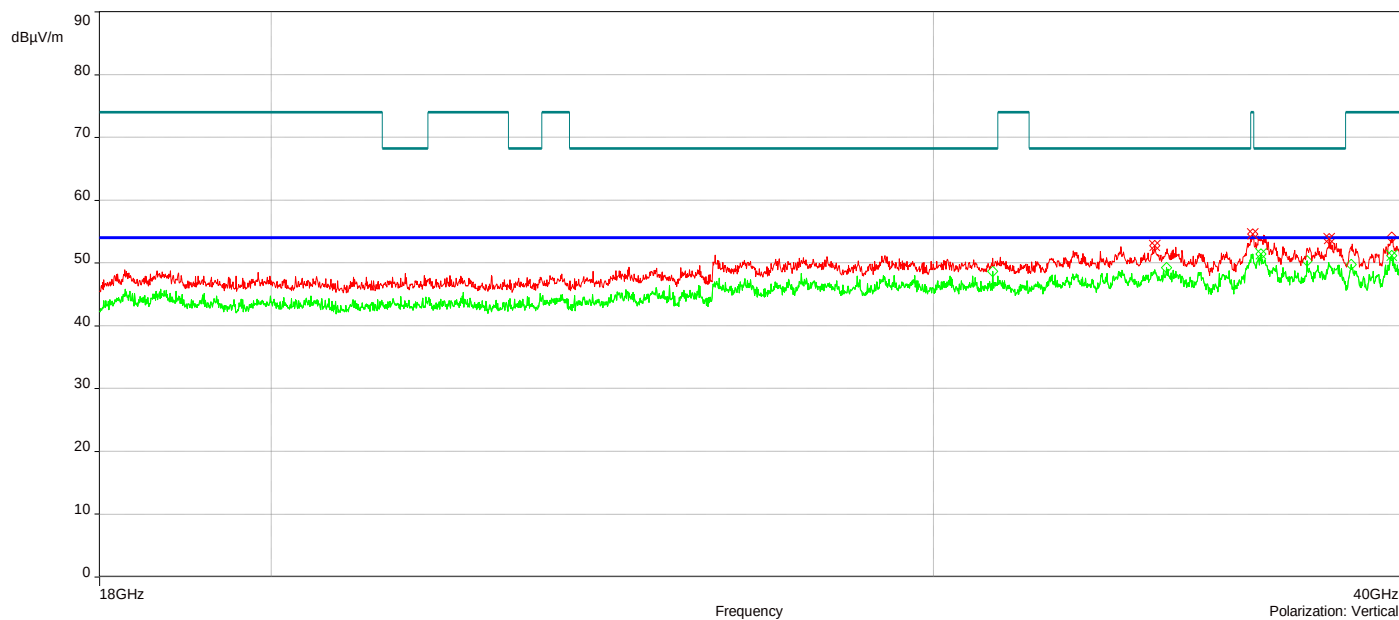
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	34.350372GHz	52.77	7.59	68.23	-15.46	2.80	180.10	Vertical	Passed
2.	36.46742GHz	54.66	5.06	74.00	-19.34	1.06	135.10	Vertical	Passed
3.	38.22146GHz	53.85	7.13	68.23	-14.38	1.03	202.60	Vertical	Passed
4.	33.667356GHz	53.03	7.80	68.23	-15.20	3.32	315.10	Horizontal	Passed
5.	36.46442GHz	54.98	5.14	74.00	-19.02	1.78	270.10	Horizontal	Passed
6.	39.682493GHz	54.65	8.14	74.00	-19.35	1.00	112.60	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	36.650924GHz	51.49	4.74	54.00	-2.51	1.78	292.60	Vertical	Passed
2.	39.709493GHz	51.19	8.30	54.00	-2.81	2.16	337.40	Vertical	Passed
3.	36.47192GHz	51.79	5.03	54.00	-2.21	1.00	22.50	Horizontal	Passed
4.	38.22346GHz	51.04	6.99	54.00	-2.96	1.40	270.10	Horizontal	Passed
5.	38.748472GHz	51.24	7.47	54.00	-2.76	3.88	180.10	Horizontal	Passed
6.	39.745994GHz	50.91	7.99	54.00	-3.09	2.01	292.60	Horizontal	Passed

Overall Graphs:





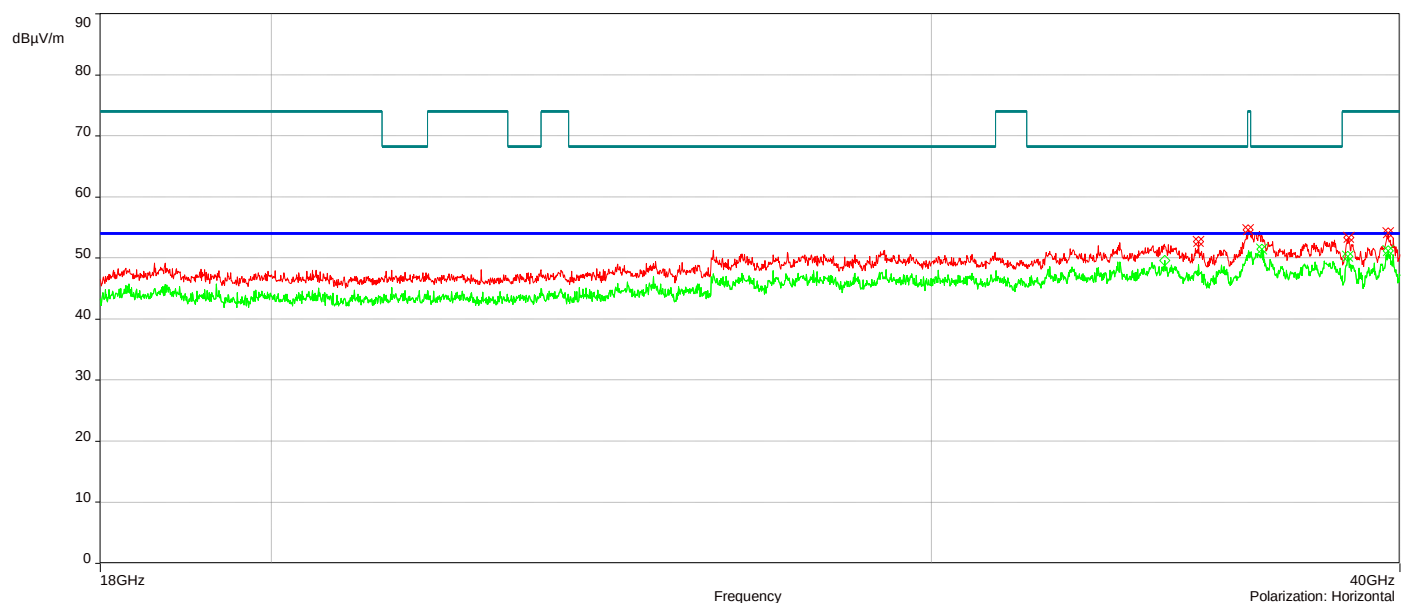
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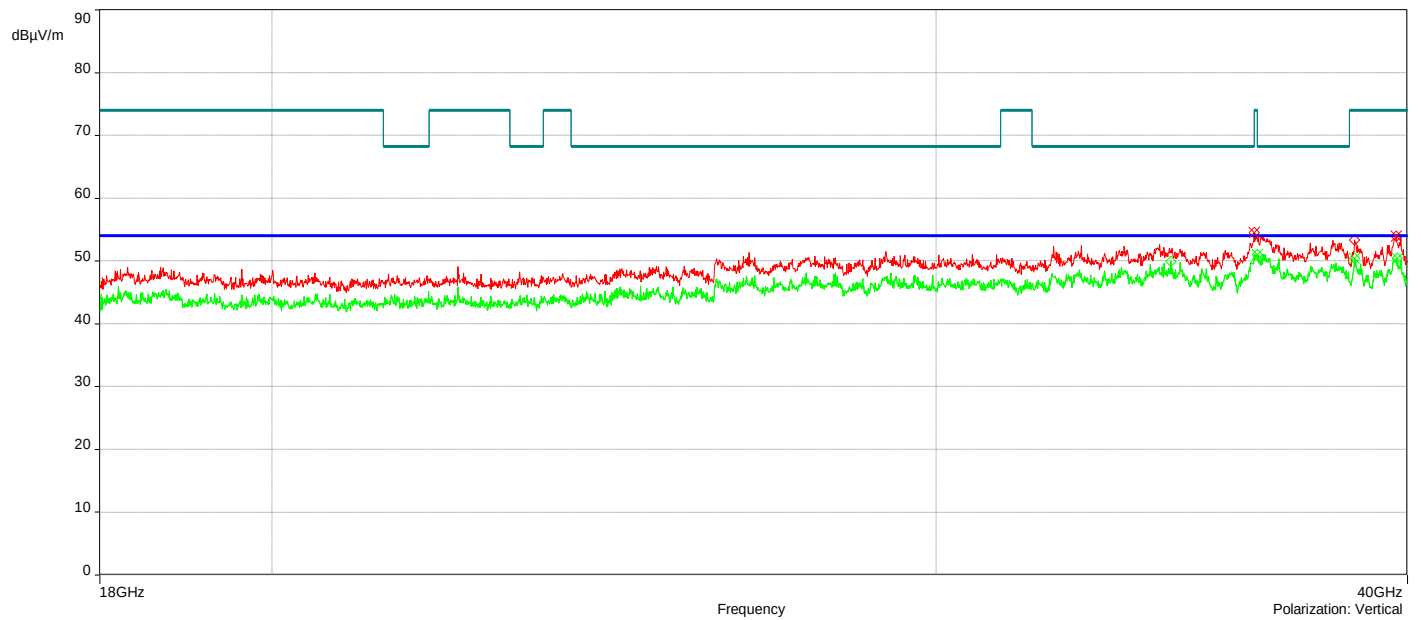
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	36.430919GHz	54.52	5.12	74.00	-19.48	2.41	292.40	Vertical	Passed
2.	39.720494GHz	53.99	8.25	74.00	-20.01	2.34	314.90	Vertical	Passed
3.	35.347394GHz	52.72	6.60	68.23	-15.51	1.00	134.90	Horizontal	Passed
4.	36.434919GHz	54.59	5.18	74.00	-19.41	1.41	134.90	Horizontal	Passed
5.	38.766472GHz	53.40	6.98	74.00	-20.60	1.96	247.40	Horizontal	Passed
6.	39.716494GHz	54.13	8.24	74.00	-19.87	3.51	67.40	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	36.49442GHz	51.07	4.63	54.00	-2.93	3.79	247.40	Vertical	Passed
2.	38.728971GHz	50.46	7.16	54.00	-3.54	3.97	292.40	Vertical	Passed
3.	39.753994GHz	50.48	8.01	54.00	-3.52	1.03	179.90	Vertical	Passed
4.	36.751426GHz	51.45	5.47	54.00	-2.55	1.00	134.90	Horizontal	Passed
5.	38.735971GHz	50.26	7.29	54.00	-3.74	2.73	202.40	Horizontal	Passed
6.	39.716494GHz	51.20	8.24	54.00	-2.80	3.51	67.40	Horizontal	Passed

Overall Graphs:





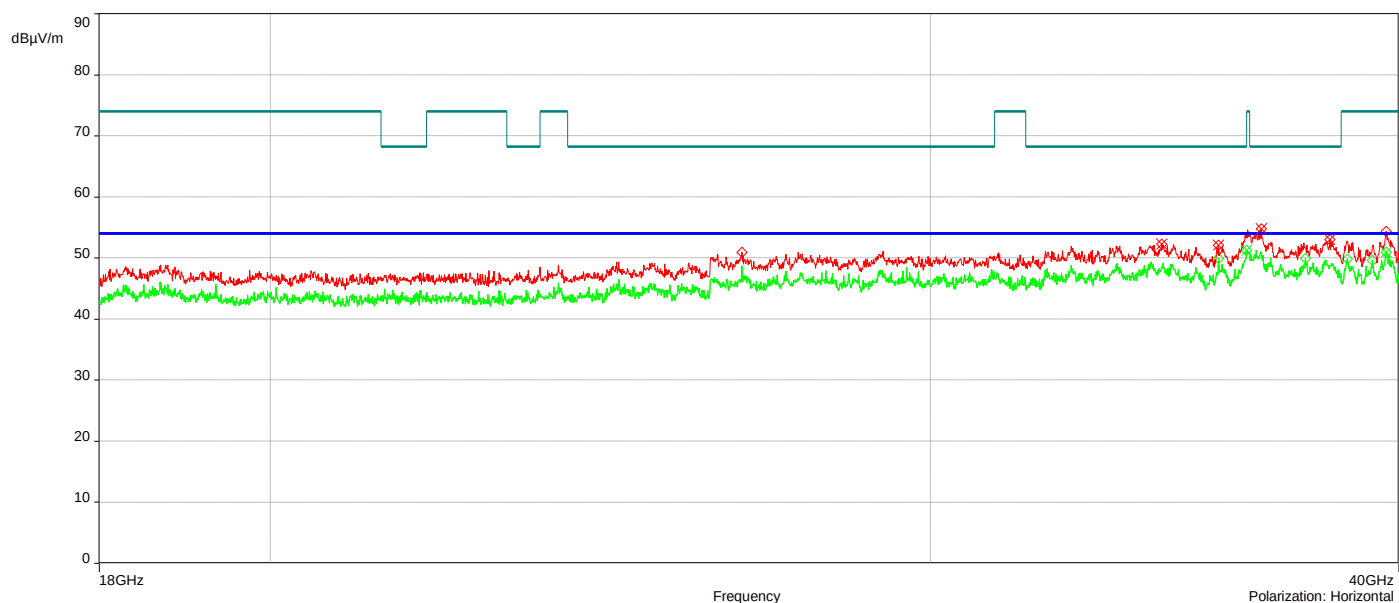
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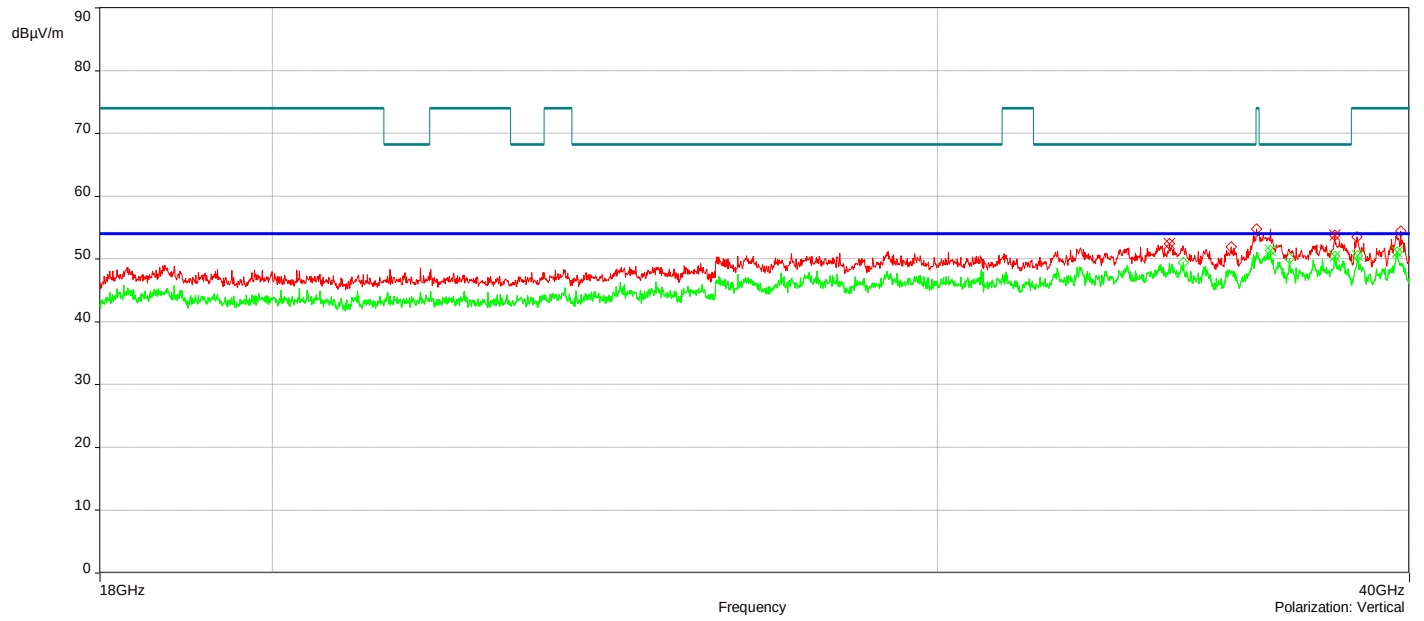
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	34.552876GHz	52.44	7.39	68.23	-15.79	3.50	292.60	Vertical	Passed
2.	38.216459GHz	53.78	7.17	68.23	-14.45	3.97	135.00	Vertical	Passed
3.	34.576377GHz	52.30	7.56	68.23	-15.93	2.73	315.10	Horizontal	Passed
4.	35.797904GHz	52.08	5.79	68.23	-16.15	1.25	67.60	Horizontal	Passed
5.	36.754426GHz	54.77	5.47	68.23	-13.46	1.21	90.10	Horizontal	Passed
6.	38.342462GHz	53.01	6.19	68.23	-15.22	3.97	247.60	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	36.752926GHz	51.35	5.46	54.00	-2.65	2.02	270.10	Vertical	Passed
2.	38.216459GHz	50.45	7.17	54.00	-3.55	3.97	135.00	Vertical	Passed
3.	38.750972GHz	50.48	7.48	54.00	-3.52	1.44	180.10	Vertical	Passed
4.	39.695993GHz	51.08	8.31	54.00	-2.92	1.44	45.20	Vertical	Passed
5.	36.428919GHz	51.32	5.14	54.00	-2.68	2.95	337.40	Horizontal	Passed
6.	39.680993GHz	50.92	8.10	54.00	-3.08	1.44	292.60	Horizontal	Passed

Overall Graphs:





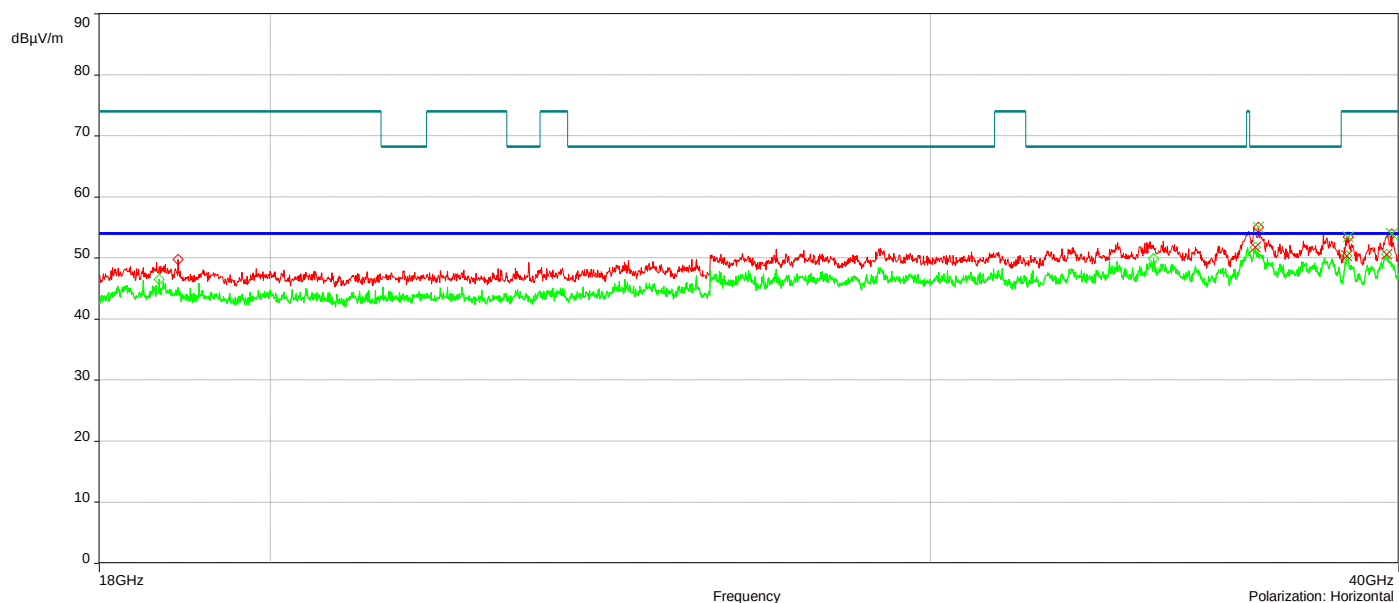
J23134 ER 3B#001_5G UNII-1 802.11ac_6Mbps_Ch 36_18-40GHz

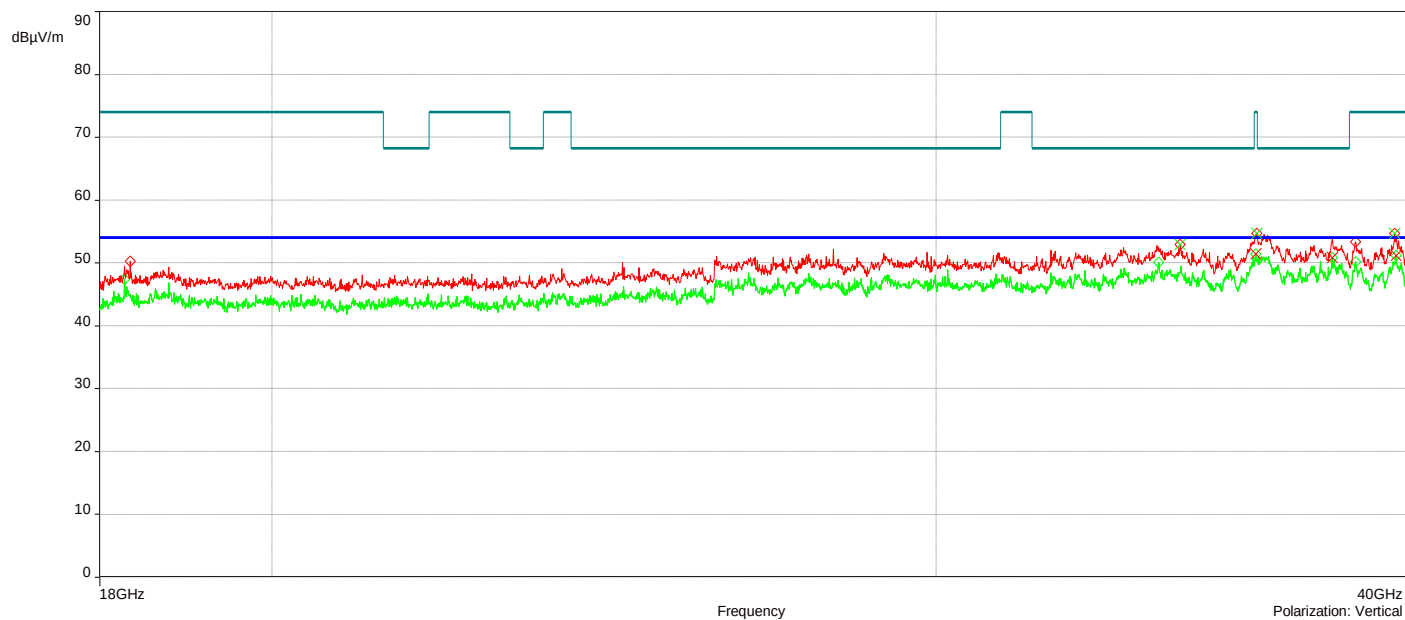
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	34.812882GHz	52.93	7.17	68.23	-15.30	3.97	67.40	Vertical	Passed
2.	36.47842GHz	54.73	4.90	74.00	-19.27	2.80	67.40	Vertical	Passed
3.	39.688493GHz	54.69	8.24	74.00	-19.31	3.79	202.40	Vertical	Passed
4.	36.686425GHz	55.06	4.86	68.23	-13.17	2.42	44.90	Horizontal	Passed
5.	38.772472GHz	53.46	6.81	74.00	-20.54	3.47	292.40	Horizontal	Passed
6.	39.823496GHz	53.93	8.12	74.00	-20.07	2.34	67.40	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	36.46142GHz	51.47	5.15	54.00	-2.53	3.59	157.40	Vertical	Passed
2.	38.211459GHz	50.87	7.21	54.00	-3.13	1.03	44.90	Vertical	Passed
3.	39.730994GHz	51.19	8.18	54.00	-2.81	3.54	134.90	Vertical	Passed
4.	36.619423GHz	51.79	4.59	54.00	-2.21	1.27	314.90	Horizontal	Passed
5.	38.739471GHz	50.34	7.36	54.00	-3.66	1.96	292.40	Horizontal	Passed
6.	39.693993GHz	50.58	8.29	54.00	-3.42	2.54	292.40	Horizontal	Passed

Overall Graphs:





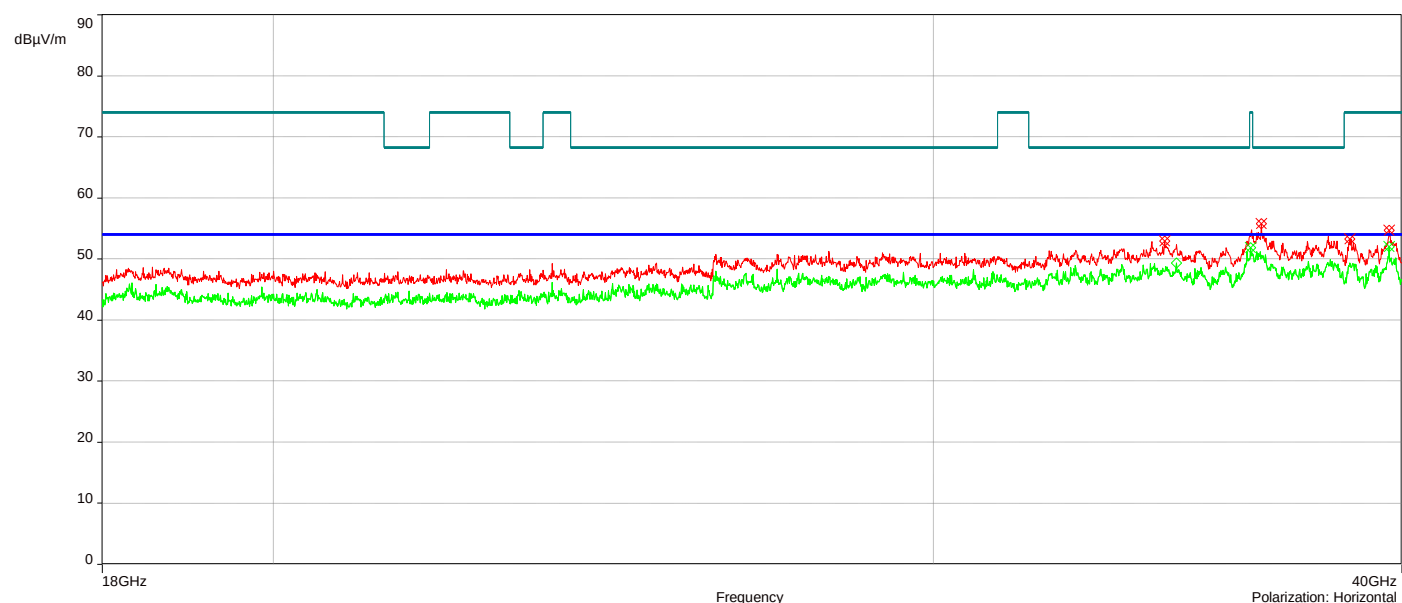
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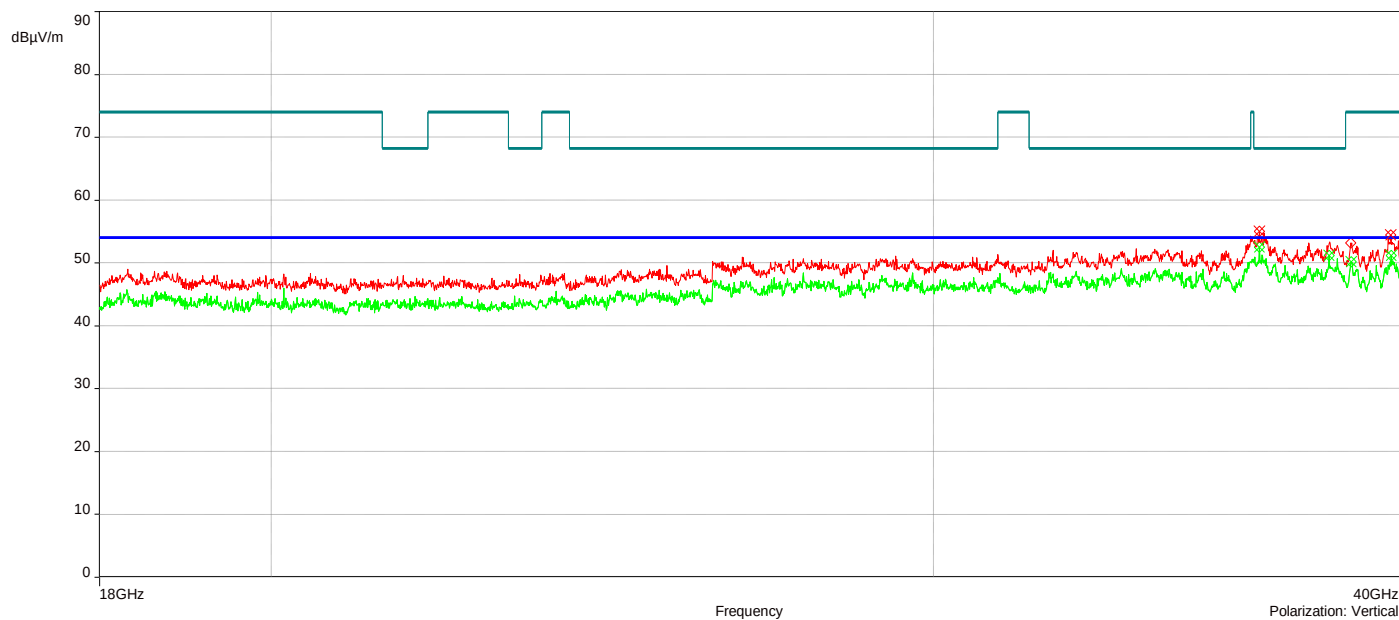
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	36.624923GHz	55.05	4.63	68.23	-13.18	1.03	292.60	Vertical	Passed
2.	39.692993GHz	54.47	8.28	74.00	-19.53	1.03	157.70	Vertical	Passed
3.	34.580877GHz	52.93	7.59	68.23	-15.30	3.97	247.60	Horizontal	Passed
4.	36.687925GHz	55.77	4.86	68.23	-12.46	1.78	0.10	Horizontal	Passed
5.	38.733471GHz	53.30	7.24	74.00	-20.70	1.03	315.10	Horizontal	Passed
6.	39.683493GHz	54.73	8.17	74.00	-19.27	2.02	112.60	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	36.618923GHz	52.55	4.60	54.00	-1.45	1.59	157.70	Vertical	Passed
2.	38.214459GHz	51.17	7.19	54.00	-2.83	3.86	67.50	Vertical	Passed
3.	38.741471GHz	50.21	7.43	54.00	-3.79	2.33	67.50	Vertical	Passed
4.	39.701993GHz	51.22	8.33	54.00	-2.78	3.97	135.00	Vertical	Passed
5.	36.448419GHz	51.88	5.28	54.00	-2.12	1.65	202.70	Horizontal	Passed
6.	39.683493GHz	52.03	8.17	54.00	-1.97	2.02	112.60	Horizontal	Passed

Overall Graphs:





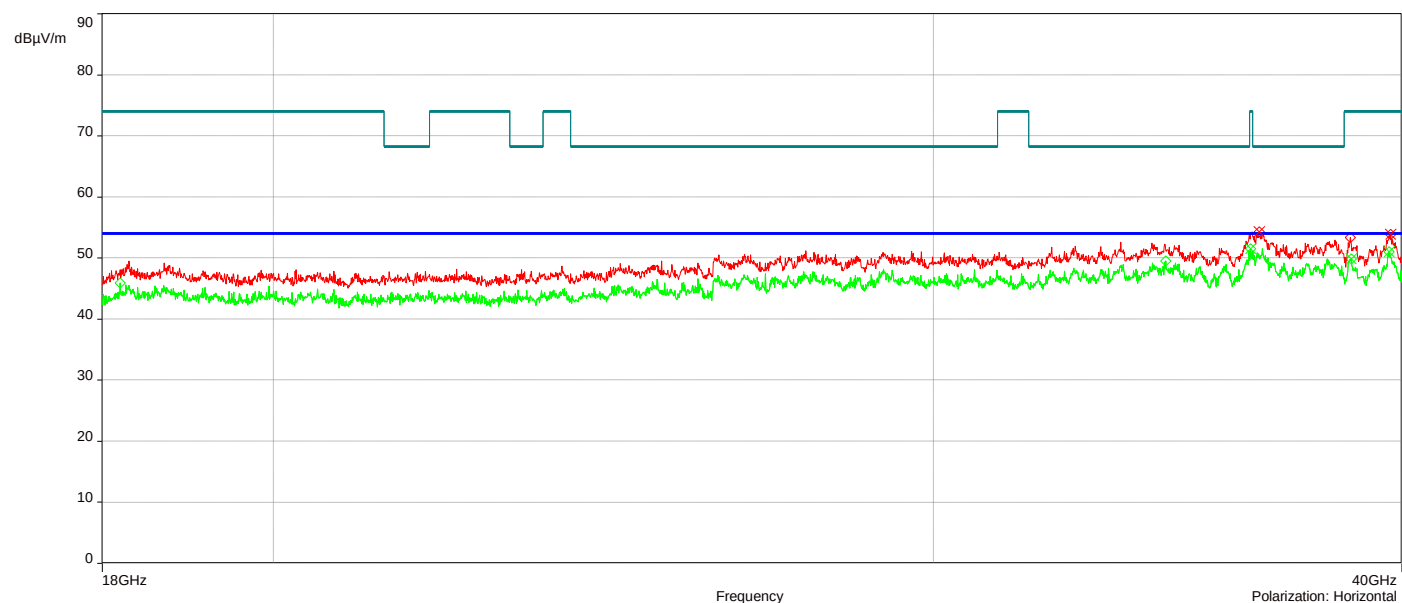
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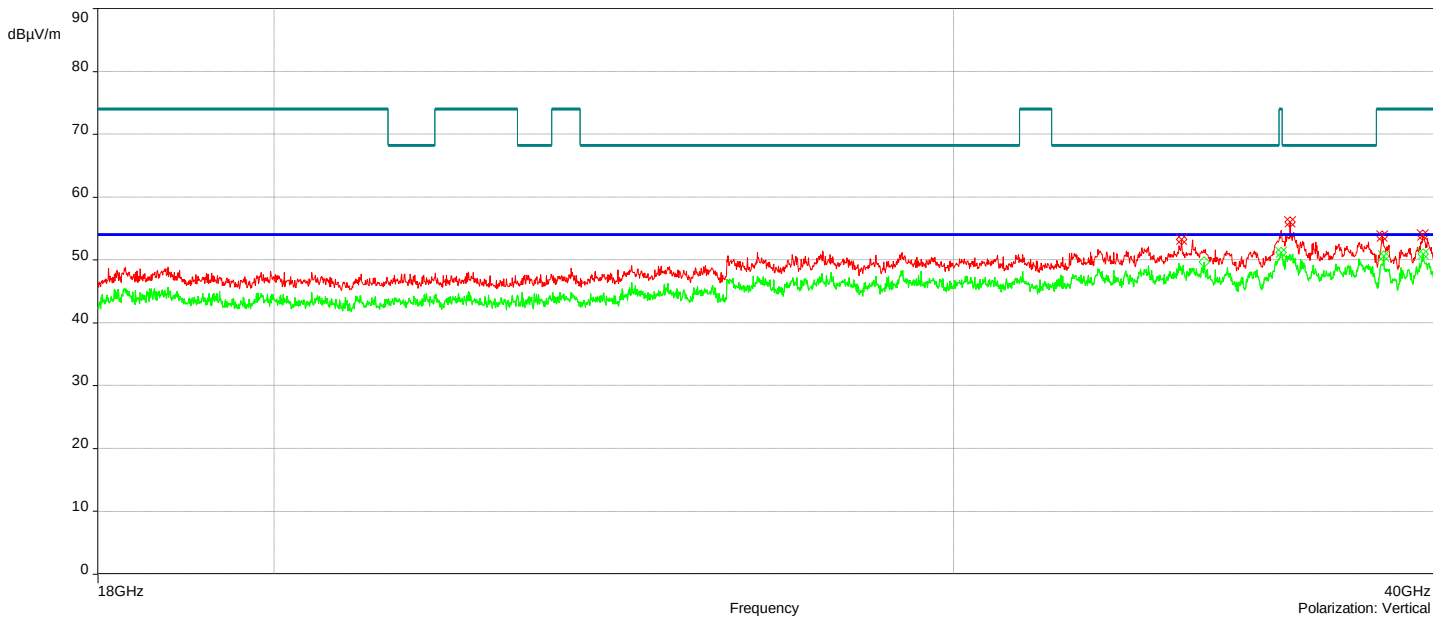
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	34.364372GHz	53.27	7.54	68.23	-14.96	2.93	134.90	Vertical	Passed
2.	36.670424GHz	56.06	4.82	68.23	-12.17	2.92	314.90	Vertical	Passed
3.	38.743471GHz	53.81	7.48	74.00	-20.19	3.68	179.90	Vertical	Passed
4.	39.686993GHz	54.00	8.23	74.00	-20.00	2.78	67.40	Vertical	Passed
5.	36.644424GHz	54.26	4.72	68.23	-13.97	1.82	134.90	Horizontal	Passed
6.	39.729494GHz	53.86	8.15	74.00	-20.14	1.98	247.40	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	36.47092GHz	51.16	5.01	54.00	-2.84	3.63	0.10	Vertical	Passed
2.	38.772972GHz	50.59	6.85	54.00	-3.41	2.36	89.90	Vertical	Passed
3.	39.699493GHz	50.93	8.34	54.00	-3.07	3.77	112.40	Vertical	Passed
4.	36.451419GHz	51.50	5.30	54.00	-2.50	2.36	247.40	Horizontal	Passed
5.	38.771472GHz	49.88	6.84	54.00	-4.12	1.78	22.40	Horizontal	Passed
6.	39.693493GHz	51.04	8.28	54.00	-2.96	4.00	22.40	Horizontal	Passed

Overall Graphs:





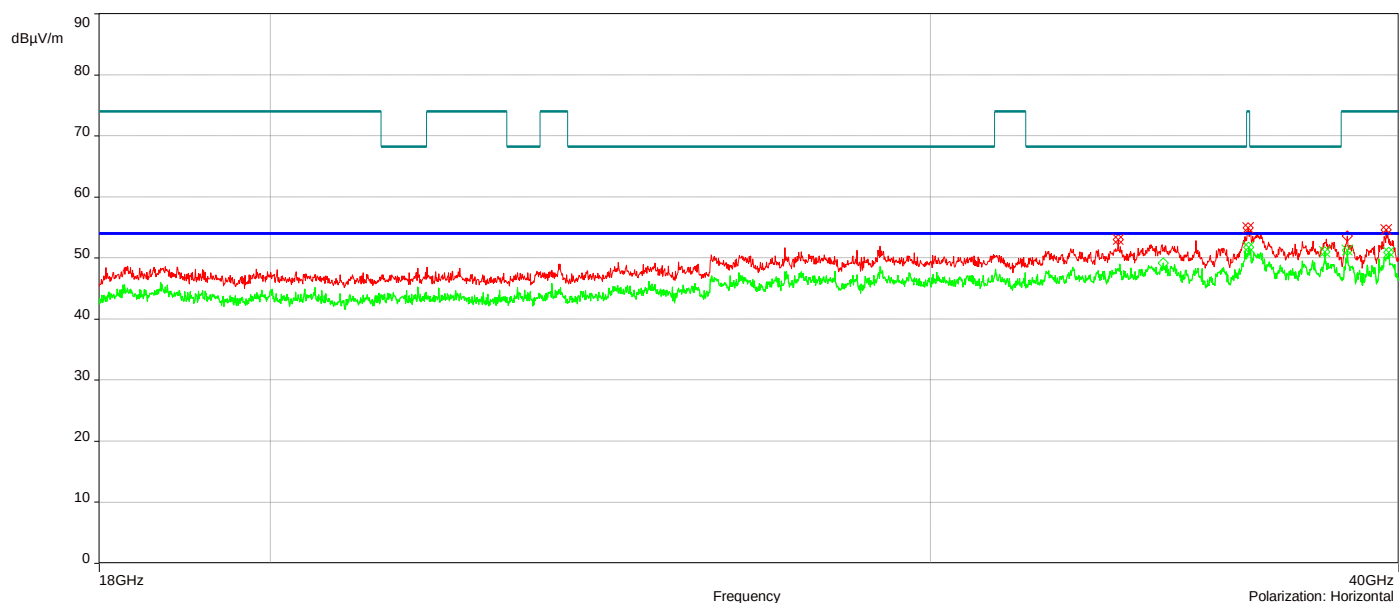
J23134 ER 3B#001_5G UNII-3 802.11ac_6Mbps_Ch 165_18-40GHz

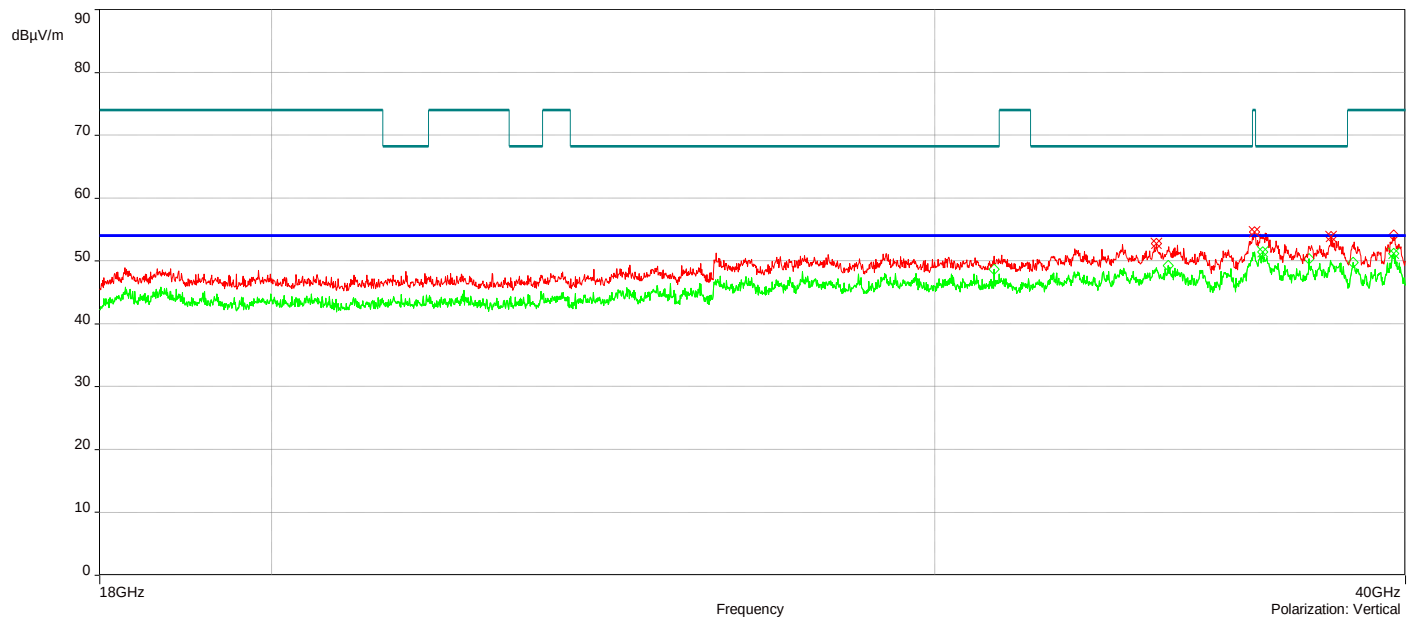
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	34.350372GHz	52.77	7.59	68.23	-15.46	2.80	180.10	Vertical	Passed
2.	36.46742GHz	54.66	5.06	74.00	-19.34	1.06	135.10	Vertical	Passed
3.	38.22146GHz	53.85	7.13	68.23	-14.38	1.03	202.60	Vertical	Passed
4.	33.667356GHz	53.03	7.80	68.23	-15.20	3.32	315.10	Horizontal	Passed
5.	36.46442GHz	54.98	5.14	74.00	-19.02	1.78	270.10	Horizontal	Passed
6.	39.682493GHz	54.65	8.14	74.00	-19.35	1.00	112.60	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	36.650924GHz	51.49	4.74	54.00	-2.51	1.78	292.60	Vertical	Passed
2.	39.709493GHz	51.19	8.30	54.00	-2.81	2.16	337.40	Vertical	Passed
3.	36.47192GHz	51.79	5.03	54.00	-2.21	1.00	22.50	Horizontal	Passed
4.	38.22346GHz	51.04	6.99	54.00	-2.96	1.40	270.10	Horizontal	Passed
5.	38.748472GHz	51.24	7.47	54.00	-2.76	3.88	180.10	Horizontal	Passed
6.	39.745994GHz	50.91	7.99	54.00	-3.09	2.01	292.60	Horizontal	Passed

Overall Graphs:





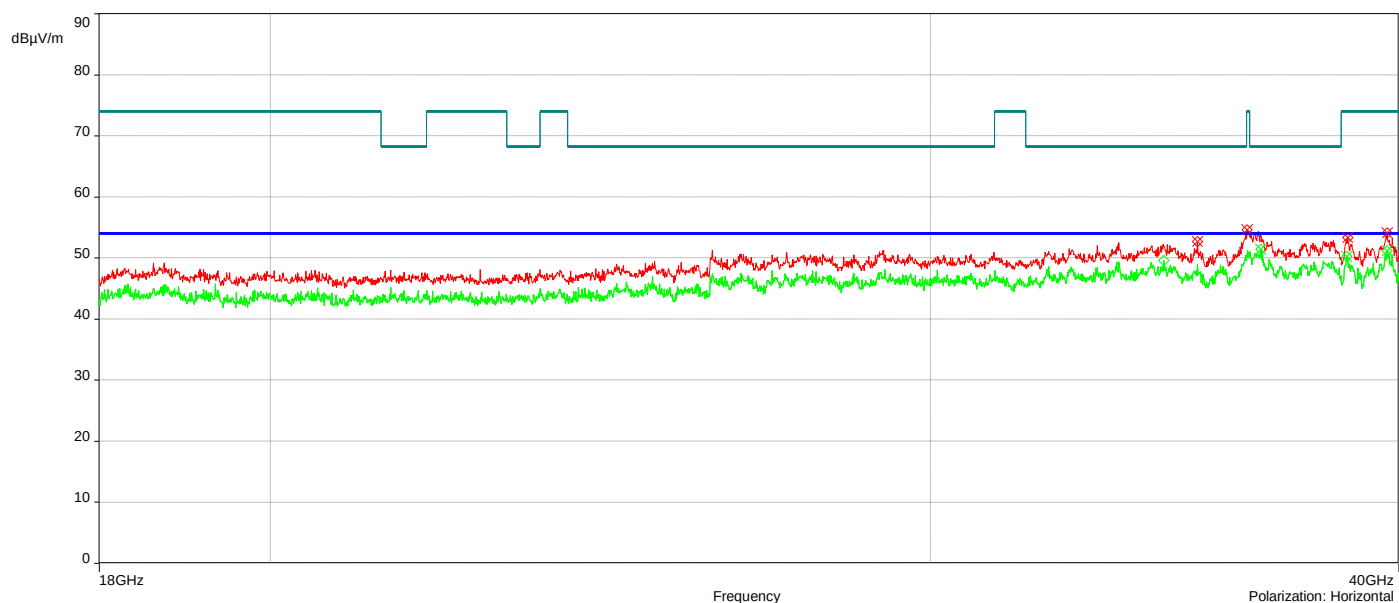
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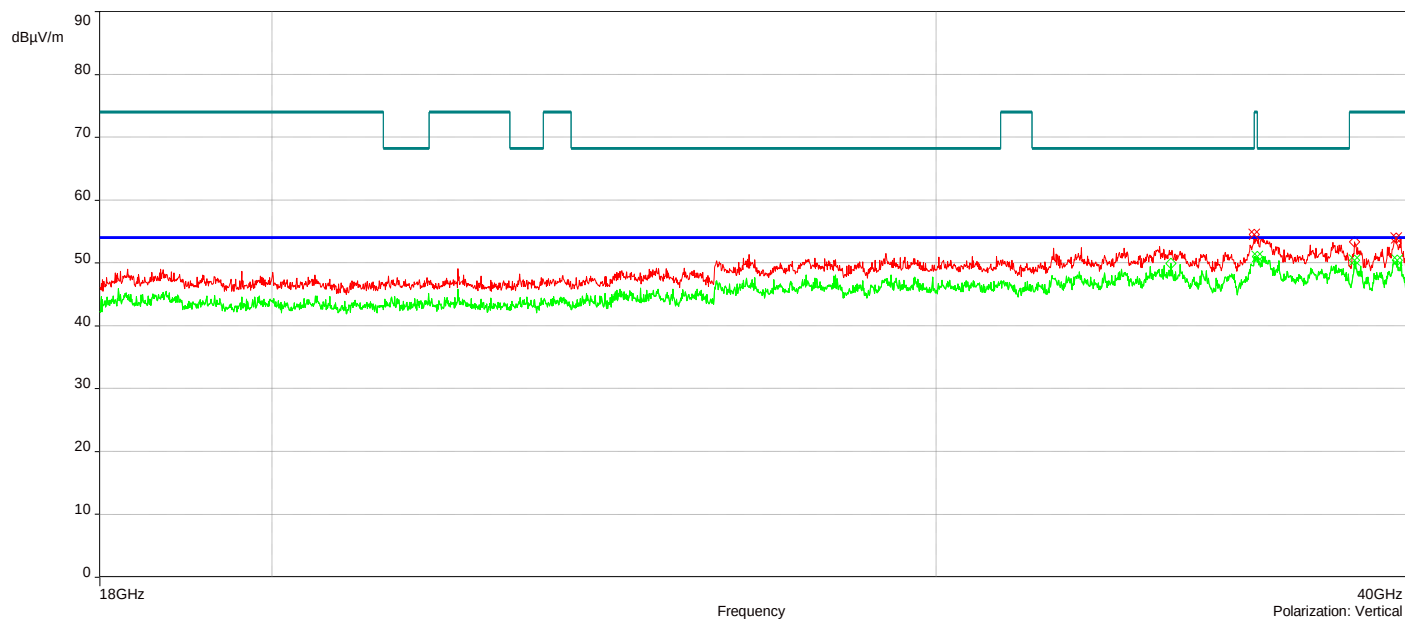
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	36.430919GHz	54.52	5.12	74.00	-19.48	2.41	292.40	Vertical	Passed
2.	39.720494GHz	53.99	8.25	74.00	-20.01	2.34	314.90	Vertical	Passed
3.	35.347394GHz	52.72	6.60	68.23	-15.51	1.00	134.90	Horizontal	Passed
4.	36.434919GHz	54.59	5.18	74.00	-19.41	1.41	134.90	Horizontal	Passed
5.	38.766472GHz	53.40	6.98	74.00	-20.60	1.96	247.40	Horizontal	Passed
6.	39.716494GHz	54.13	8.24	74.00	-19.87	3.51	67.40	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	36.49442GHz	51.07	4.63	54.00	-2.93	3.79	247.40	Vertical	Passed
2.	38.728971GHz	50.46	7.16	54.00	-3.54	3.97	292.40	Vertical	Passed
3.	39.753994GHz	50.48	8.01	54.00	-3.52	1.03	179.90	Vertical	Passed
4.	36.751426GHz	51.45	5.47	54.00	-2.55	1.00	134.90	Horizontal	Passed
5.	38.735971GHz	50.26	7.29	54.00	-3.74	2.73	202.40	Horizontal	Passed
6.	39.716494GHz	51.20	8.24	54.00	-2.80	3.51	67.40	Horizontal	Passed

Overall Graphs:





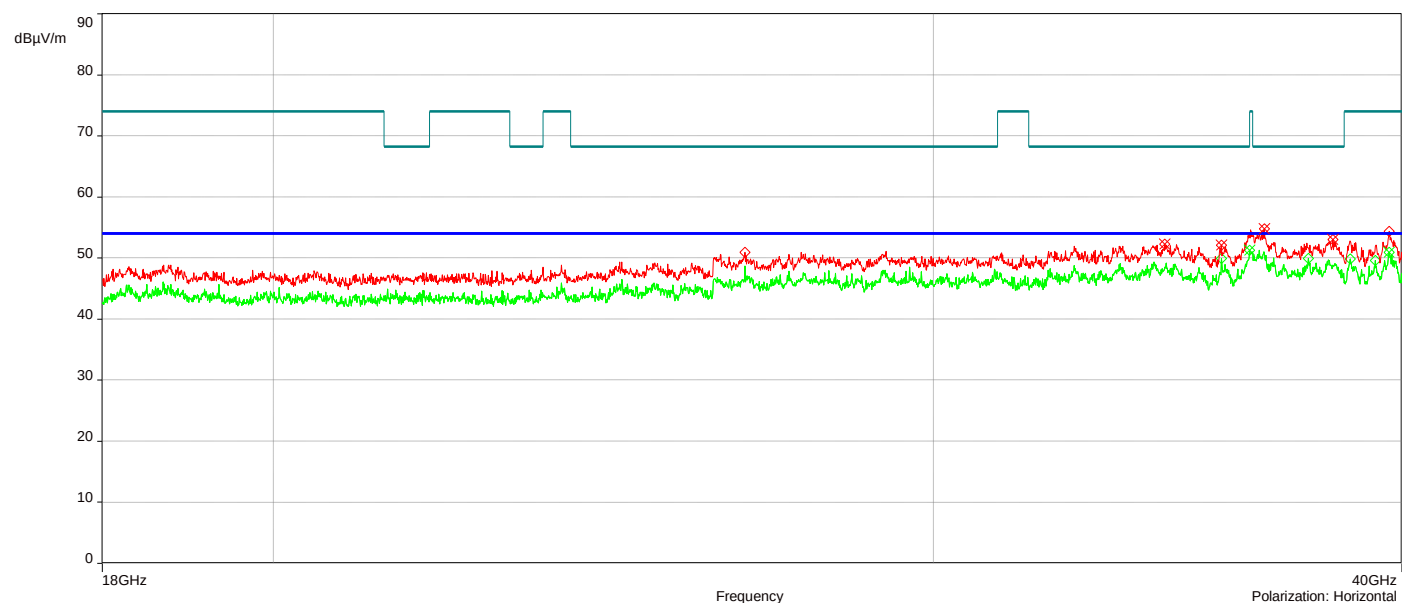
J23134 ER 3B#001_5G UNII-3 802.11ac_MCS0_Ch 155_18-40GHz

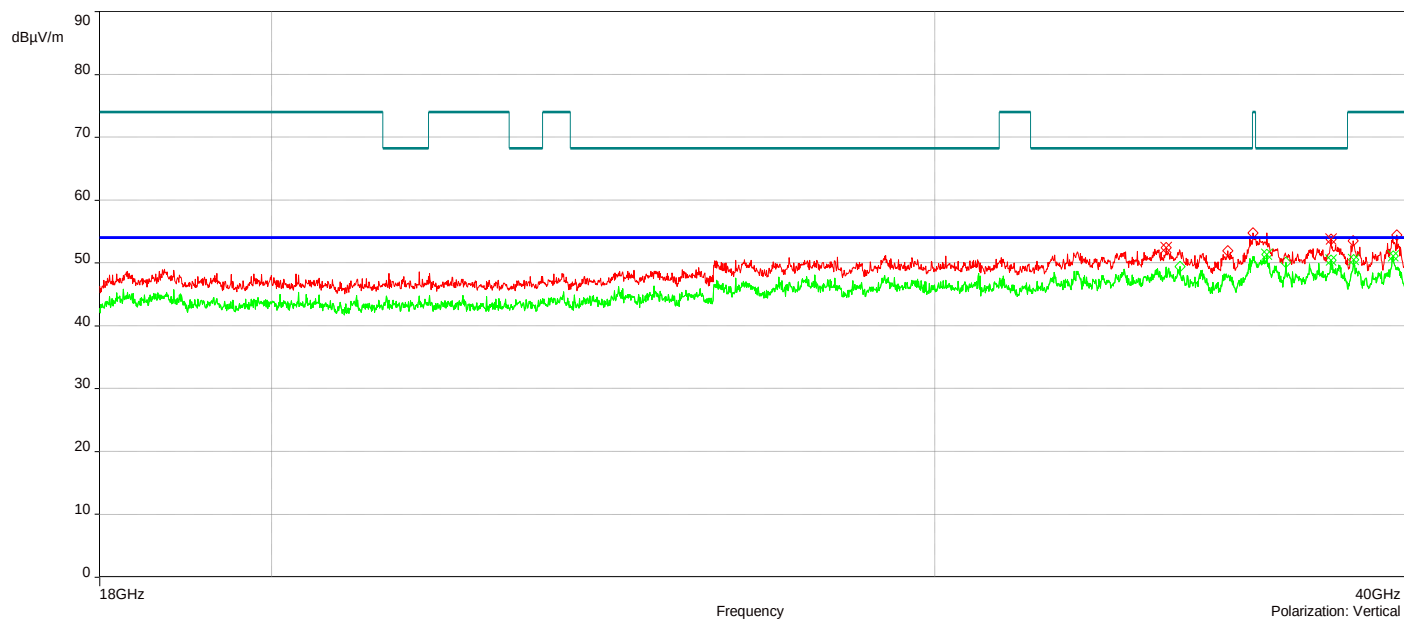
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	34.552876GHz	52.44	7.39	68.23	-15.79	3.50	292.60	Vertical	Passed
2.	38.216459GHz	53.78	7.17	68.23	-14.45	3.97	135.00	Vertical	Passed
3.	34.576377GHz	52.30	7.56	68.23	-15.93	2.73	315.10	Horizontal	Passed
4.	35.797904GHz	52.08	5.79	68.23	-16.15	1.25	67.60	Horizontal	Passed
5.	36.754426GHz	54.77	5.47	68.23	-13.46	1.21	90.10	Horizontal	Passed
6.	38.342462GHz	53.01	6.19	68.23	-15.22	3.97	247.60	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	36.752926GHz	51.35	5.46	54.00	-2.65	2.02	270.10	Vertical	Passed
2.	38.216459GHz	50.45	7.17	54.00	-3.55	3.97	135.00	Vertical	Passed
3.	38.750972GHz	50.48	7.48	54.00	-3.52	1.44	180.10	Vertical	Passed
4.	39.695993GHz	51.08	8.31	54.00	-2.92	1.44	45.20	Vertical	Passed
5.	36.428919GHz	51.32	5.14	54.00	-2.68	2.95	337.40	Horizontal	Passed
6.	39.680993GHz	50.92	8.10	54.00	-3.08	1.44	292.60	Horizontal	Passed

Overall Graphs:





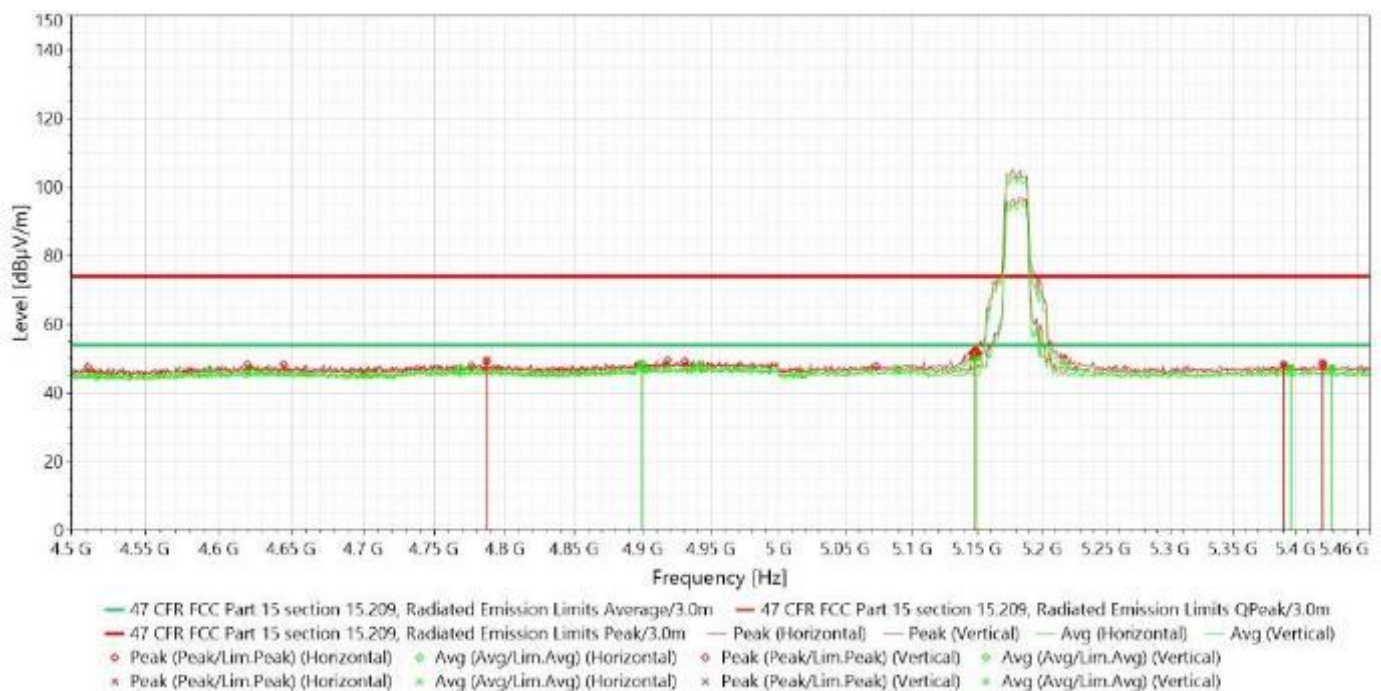
J23134 ER 3B#001_Restricted Bandedge_5G UNII-1 802.11a_Ch 36

5/5/2025 11:09:34 AM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.1483242GHz	51.60	5.24	74.00	-22.40	1.50	341.30	Horizontal	Passed
2.	5.4215808GHz	48.64	5.64	74.00	-25.36	1.00	6.30	Horizontal	Passed
3.	4.7871836GHz	49.43	4.64	74.00	-24.57	3.00	0.10	Vertical	Passed
4.	5.3903652GHz	48.29	5.56	74.00	-25.71	1.50	97.00	Vertical	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	5.1488044GHz	40.94	5.24	54.00	-13.06	1.00	2.30	Horizontal	Passed
2.	5.3961281GHz	39.07	5.61	54.00	-14.93	1.00	4.60	Horizontal	Passed
3.	4.8990795GHz	41.36	5.37	54.00	-12.64	2.00	259.80	Vertical	Passed
4.	5.4292646GHz	39.81	5.73	54.00	-14.19	3.50	246.80	Vertical	Passed

Overall Graphs:



J23134 ER 3B#001_Restricted Bandedge_5G UNII-1 802.11a_Ch 48

5/5/2025 6:56:07 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	4.9610305GHz	49.16	5.36	74.00	-24.84	3.50	0.60	Horizontal	Passed
2.	5.3653927GHz	48.12	5.47	74.00	-25.88	1.50	236.70	Horizontal	Passed
3.	4.9783192GHz	49.34	5.26	74.00	-24.66	1.50	182.50	Vertical	Passed
4.	5.4422311GHz	48.44	5.76	74.00	-25.56	1.00	304.80	Vertical	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	4.9610305GHz	38.83	5.36	54.00	-15.17	3.50	0.60	Horizontal	Passed
2.	5.4225413GHz	41.42	5.64	54.00	-12.58	1.00	0.10	Horizontal	Passed
3.	4.9783192GHz	38.57	5.26	54.00	-15.43	1.50	182.50	Vertical	Passed
4.	5.3610705GHz	40.50	5.41	54.00	-13.5	2.00	39.20	Vertical	Passed

Overall Graphs:



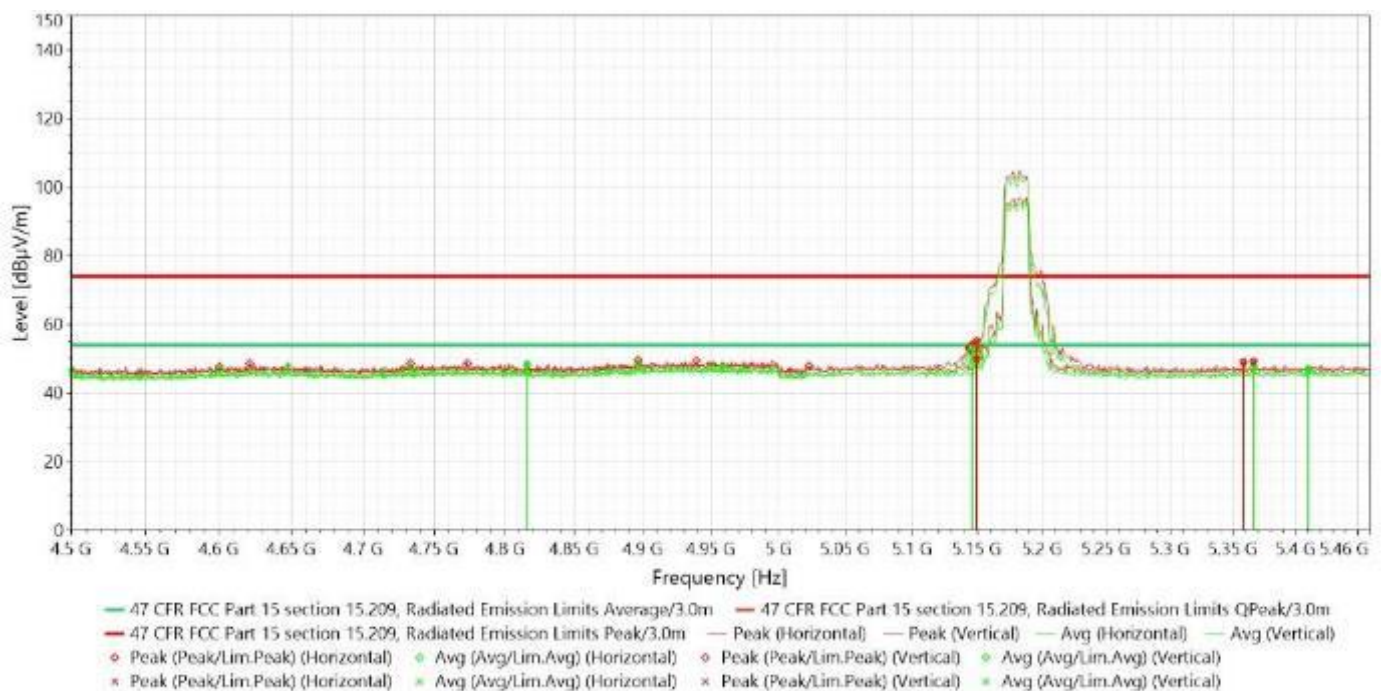
J23134 ER 3B#001_Restricted Bandedge_5G UNII-1 802.11ac_Ch 36

5/5/2025 11:28:52 AM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.1492846GHz	55.08	5.24	74.00	-18.92	3.50	39.90	Horizontal	Passed
2.	5.3663532GHz	49.06	5.48	74.00	-24.94	1.00	57.10	Horizontal	Passed
3.	5.1492846GHz	49.89	5.16	74.00	-24.11	3.50	358.90	Vertical	Passed
4.	5.3581891GHz	48.96	5.40	74.00	-25.04	3.00	0.10	Vertical	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	5.145923GHz	38.14	5.23	54.00	-15.86	4.00	331.00	Horizontal	Passed
2.	5.3663532GHz	36.60	5.48	54.00	-17.4	1.00	57.10	Horizontal	Passed
3.	4.815998GHz	33.41	4.73	54.00	-20.59	4.00	200.60	Vertical	Passed
4.	5.410055GHz	36.34	5.65	54.00	-17.66	3.00	59.20	Vertical	Passed

Overall Graphs:



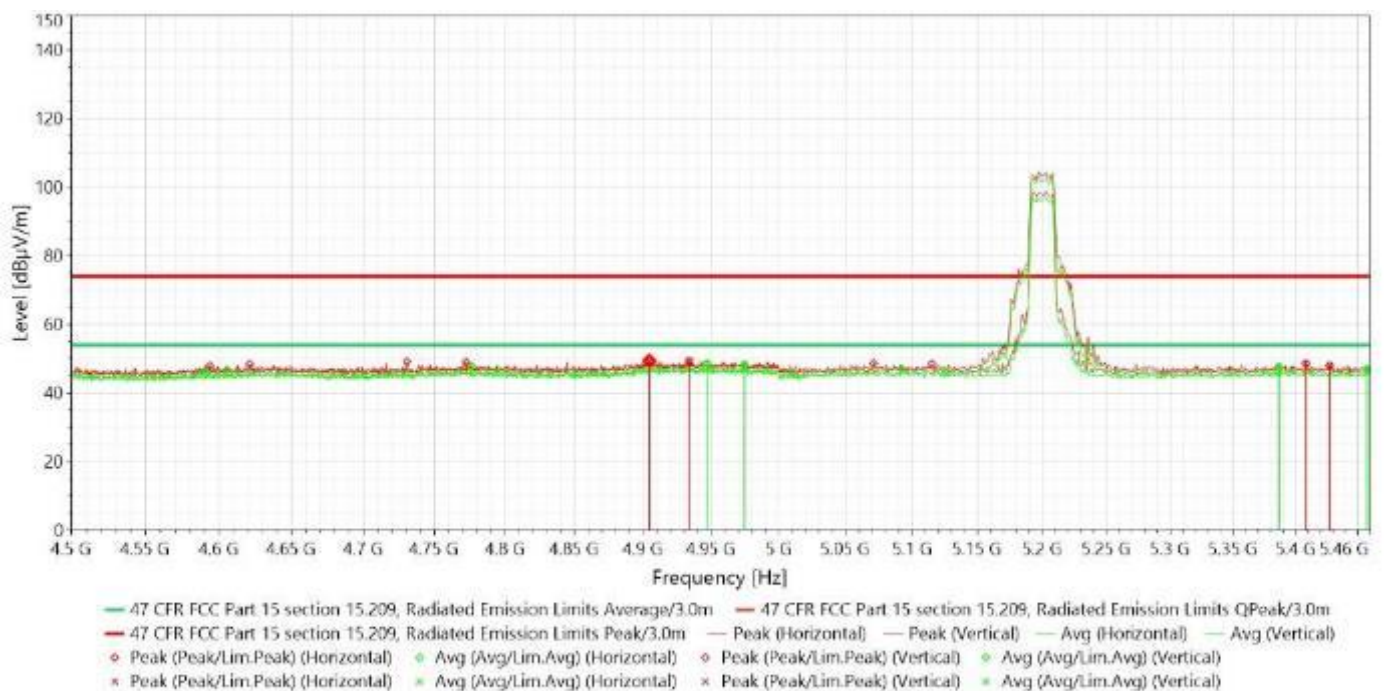
J23134 ER 3B#001_Restricted Bandedge_5G UNII-1 802.11ac_Ch 40

5/2/2025 8:26:21 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	4.9043622GHz	49.37	5.35	74.00	-24.63	1.50	316.70	Horizontal	Passed
2.	5.4081341GHz	48.54	5.63	74.00	-25.46	1.50	76.80	Horizontal	Passed
3.	4.9336568GHz	49.31	5.29	74.00	-24.69	2.00	0.10	Vertical	Passed
4.	5.4273437GHz	47.95	5.72	74.00	-26.05	3.50	348.20	Vertical	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	4.9466233GHz	48.61	5.37	54.00	-5.39	3.50	6.50	Horizontal	Passed
2.	5.3865233GHz	47.57	5.57	54.00	-6.43	1.50	29.20	Horizontal	Passed
3.	4.9744772GHz	48.26	5.28	54.00	-5.74	3.50	144.10	Vertical	Passed
4.	5.4575988GHz	46.95	5.80	54.00	-7.05	3.00	123.20	Vertical	Passed

Overall Graphs:



J23134 ER 3B#001_Restricted Bandedge_5G UNII-1 802.11ac_Ch 48

5/5/2025 6:36:46 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	4.9283742GHz	49.84	5.34	74.00	-24.16	1.50	87.50	Horizontal	Passed
2.	5.434067GHz	48.07	5.64	74.00	-25.93	4.00	309.10	Horizontal	Passed
3.	4.9648724GHz	49.57	5.31	74.00	-24.43	2.50	301.50	Vertical	Passed
4.	5.4556778GHz	48.53	5.79	74.00	-25.47	1.50	55.40	Vertical	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	4.9086843GHz	37.93	5.34	54.00	-16.07	1.00	11.30	Horizontal	Passed
2.	5.4311856GHz	36.54	5.65	54.00	-17.46	4.00	114.30	Horizontal	Passed
3.	4.9403802GHz	34.16	5.29	54.00	-19.84	1.00	39.40	Vertical	Passed
4.	5.4455928GHz	35.92	5.77	54.00	-18.08	2.00	176.30	Vertical	Passed

Overall Graphs:



J23134 ER 3B#001_Restricted Bandedge_5G UNII-1 802.11n_Ch 38

5/5/2025 12:00:06 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.1488044GHz	68.01	5.24	74.00	-5.99	1.00	68.40	Horizontal	Passed
2.	5.3807604GHz	48.34	5.55	74.00	-25.66	1.50	206.50	Horizontal	Passed
3.	5.1454427GHz	61.04	5.15	74.00	-12.96	4.00	0.10	Vertical	Passed
4.	5.4057329GHz	48.02	5.63	74.00	-25.98	4.00	119.20	Vertical	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	5.1483242GHz	52.76	5.24	54.00	-1.24	1.00	338.60	Horizontal	Passed
2.	5.3836418GHz	36.19	5.56	54.00	-17.81	4.00	285.10	Horizontal	Passed
3.	5.1478439GHz	43.14	5.16	54.00	-10.86	4.00	287.40	Vertical	Passed
4.	5.4057329GHz	36.41	5.63	54.00	-17.59	4.00	119.20	Vertical	Passed

Overall Graphs:



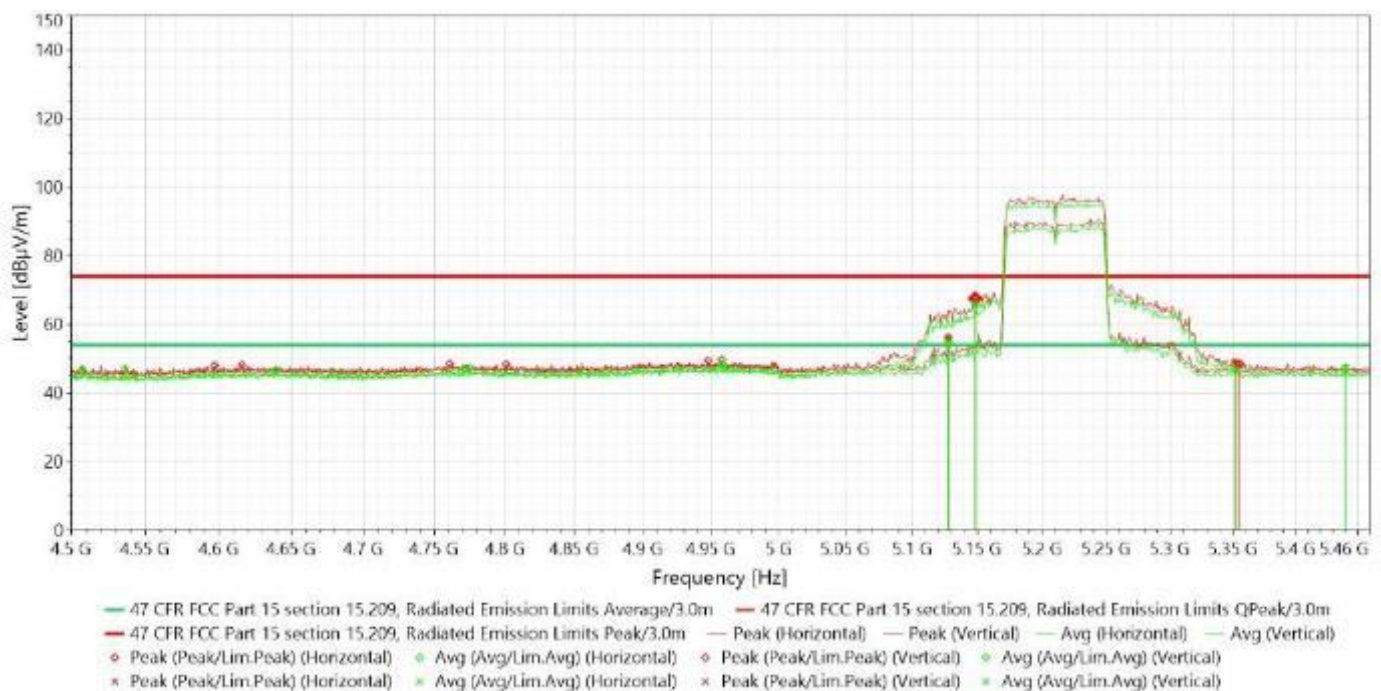
J23134 ER 3B#001_Restricted Bandedge_5G UNII-1 802.11ac_Ch 42

5/2/2025 4:29:31 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.1483242GHz	67.52	5.24	74.00	-6.48	1.50	352.50	Horizontal	Passed
2.	5.3514657GHz	48.81	5.39	74.00	-25.19	1.00	35.60	Horizontal	Passed
3.	5.1276738GHz	56.08	5.11	74.00	-17.92	3.50	72.10	Vertical	Passed
4.	5.3543472GHz	48.60	5.37	74.00	-25.40	3.00	358.90	Vertical	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	5.1483242GHz	53.00	5.24	54.00	-1.00	1.50	352.50	Horizontal	Passed
2.	5.3514657GHz	37.34	5.39	54.00	-16.66	1.00	35.60	Horizontal	Passed
3.	5.1276738GHz	41.84	5.11	54.00	-12.16	3.50	72.10	Vertical	Passed
4.	5.4403102GHz	33.36	5.75	54.00	-20.64	1.50	274.80	Vertical	Passed

Overall Graphs:

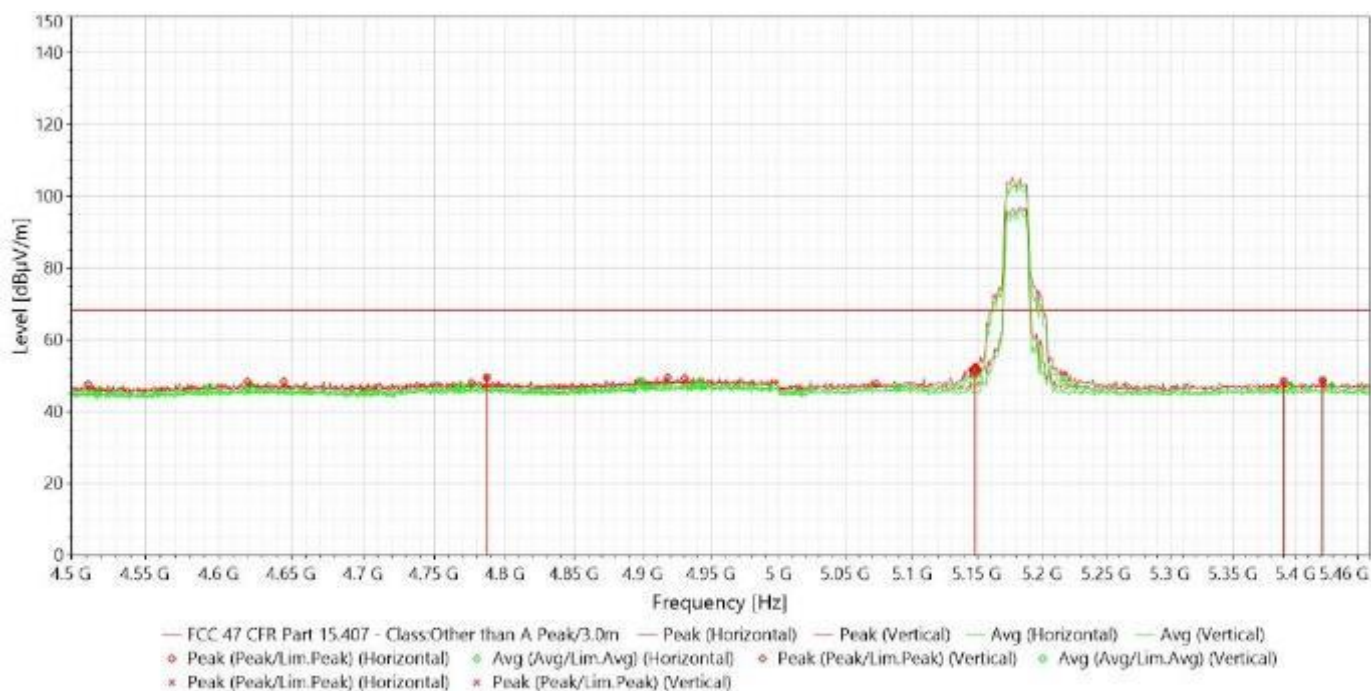


J23134 ER 3B#001_UnRestricted Bandedge_5G UNII-1 802.11a_Ch 36

5/5/2025 11:09:34 AM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.1483242GHz	51.60	5.24	68.23	-16.63	1.50	341.30	Horizontal	Passed
2.	5.4215808GHz	48.64	5.64	68.23	-19.59	1.00	6.30	Horizontal	Passed
3.	4.7871836GHz	49.43	4.64	68.23	-18.80	3.00	0.10	Vertical	Passed
4.	5.3903652GHz	48.29	5.56	68.23	-19.94	1.50	97.00	Vertical	Passed

Overall Graphs:



J23134 ER 3B#001_UnRestricted Bandedge_5G UNII-1 802.11a_Ch 48

5/5/2025 6:56:07 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	4.9610305GHz	49.16	5.36	68.23	-19.07	3.50	0.60	Horizontal	Passed
2.	5.3653927GHz	48.12	5.47	68.23	-20.11	1.50	236.70	Horizontal	Passed
3.	4.9783192GHz	49.34	5.26	68.23	-18.89	1.50	182.50	Vertical	Passed
4.	5.4422311GHz	48.44	5.76	68.23	-19.79	1.00	304.80	Vertical	Passed

Overall Graphs:

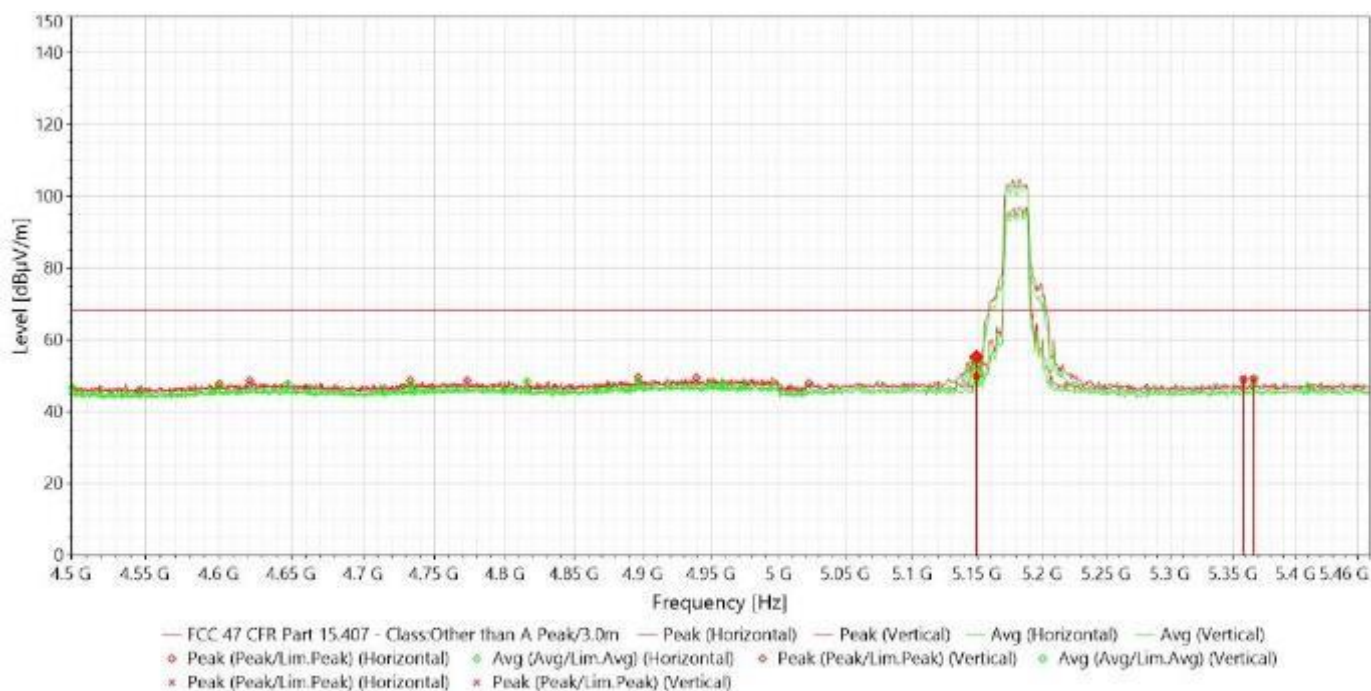


J23134 ER 3B#001_UnRestricted Bandedge_5G UNII-1 802.11ac_Ch 36

5/5/2025 11:28:52 AM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.1492846GHz	55.08	5.24	68.23	-13.15	3.50	39.90	Horizontal	Passed
2.	5.3663532GHz	49.06	5.48	68.23	-19.17	1.00	57.10	Horizontal	Passed
3.	5.1492846GHz	49.89	5.16	68.23	-18.34	3.50	358.90	Vertical	Passed
4.	5.3581891GHz	48.96	5.40	68.23	-19.27	3.00	0.10	Vertical	Passed

Overall Graphs:

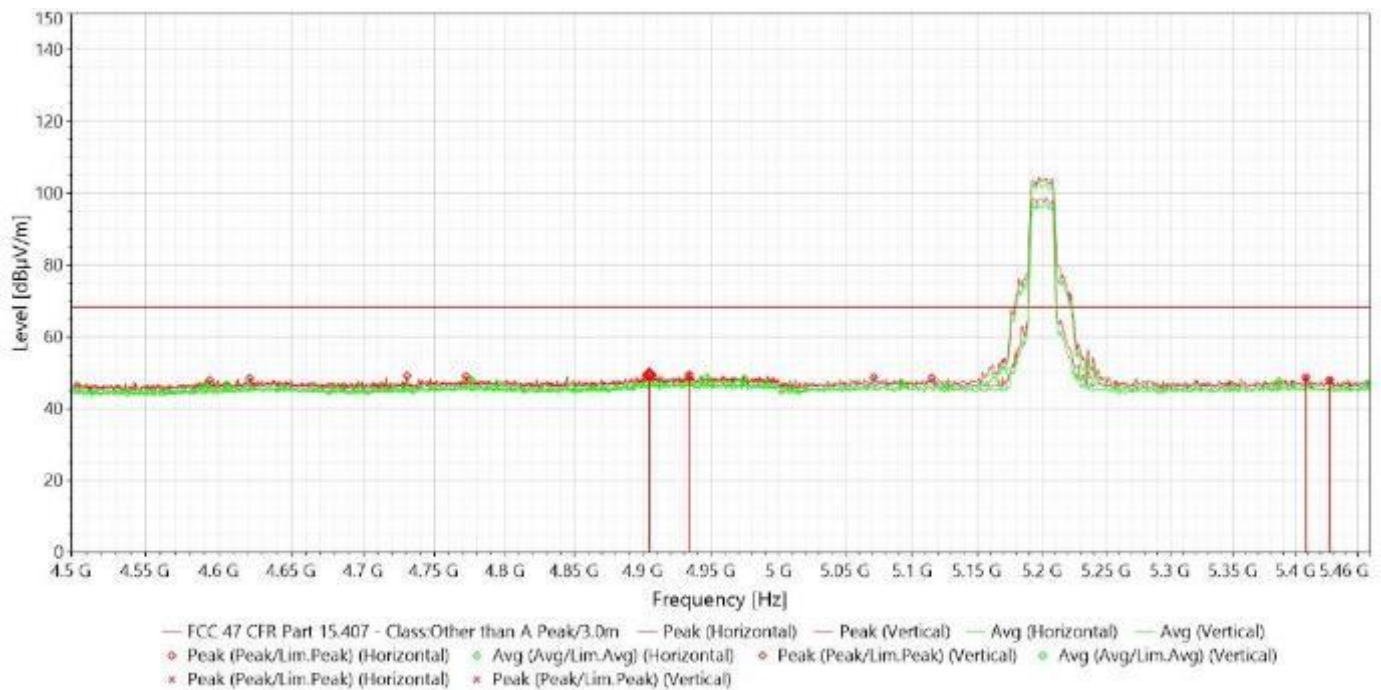


J23134 ER 3B#001_UnRestricted Bandedge_5G UNII-1 802.11ac_Ch 40

5/2/2025 8:26:21 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	4.9043622GHz	49.37	5.35	68.23	-18.86	1.50	316.70	Horizontal	Passed
2.	5.4081341GHz	48.54	5.63	68.23	-19.69	1.50	76.80	Horizontal	Passed
3.	4.9336568GHz	49.31	5.29	68.23	-18.92	2.00	0.10	Vertical	Passed
4.	5.4273437GHz	47.95	5.72	68.23	-20.28	3.50	348.20	Vertical	Passed

Overall Graphs:



J23134 ER 3B#001_UnRestricted Bandedge_5G UNII-1 802.11ac_Ch 48

5/5/2025 6:36:46 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	4.9283742GHz	49.84	5.34	68.23	-18.39	1.50	87.50	Horizontal	Passed
2.	5.434067GHz	48.07	5.64	68.23	-20.16	4.00	309.10	Horizontal	Passed
3.	4.9648724GHz	49.57	5.31	68.23	-18.66	2.50	301.50	Vertical	Passed
4.	5.4556778GHz	48.53	5.79	68.23	-19.70	1.50	55.40	Vertical	Passed

Overall Graphs:



J23134 ER 3B#001_UnRestricted Bandedge_5G UNII-1 802.11n_Ch 38

5/5/2025 12:00:06 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.1488044GHz	68.01	5.24	68.23	-0.22	1.00	68.40	Horizontal	Passed
2.	5.3807604GHz	48.34	5.55	68.23	-19.89	1.50	206.50	Horizontal	Passed
3.	5.1454427GHz	61.04	5.15	68.23	-7.19	4.00	0.10	Vertical	Passed
4.	5.4057329GHz	48.02	5.63	68.23	-20.21	4.00	119.20	Vertical	Passed

Overall Graphs:

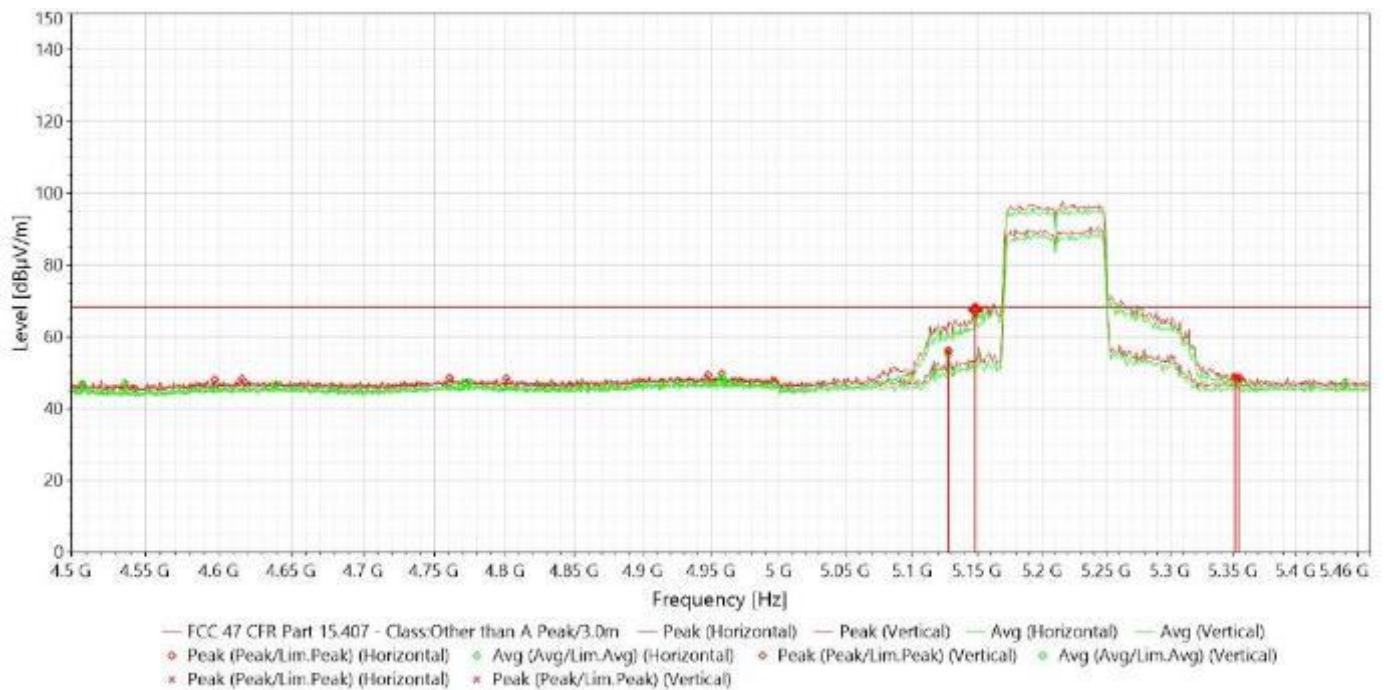


J23134 ER 3B#001_UnRestricted Bandedge_5G UNII-1 802.11ac_Ch 42

5/2/2025 4:29:31 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.1483242GHz	67.52	5.24	68.23	-0.71	1.50	352.50	Horizontal	Passed
2.	5.3514657GHz	48.81	5.39	68.23	-19.42	1.00	35.60	Horizontal	Passed
3.	5.1276738GHz	56.08	5.11	68.23	-12.15	3.50	72.10	Vertical	Passed
4.	5.3543472GHz	48.60	5.37	68.23	-19.63	3.00	358.90	Vertical	Passed

Overall Graphs:

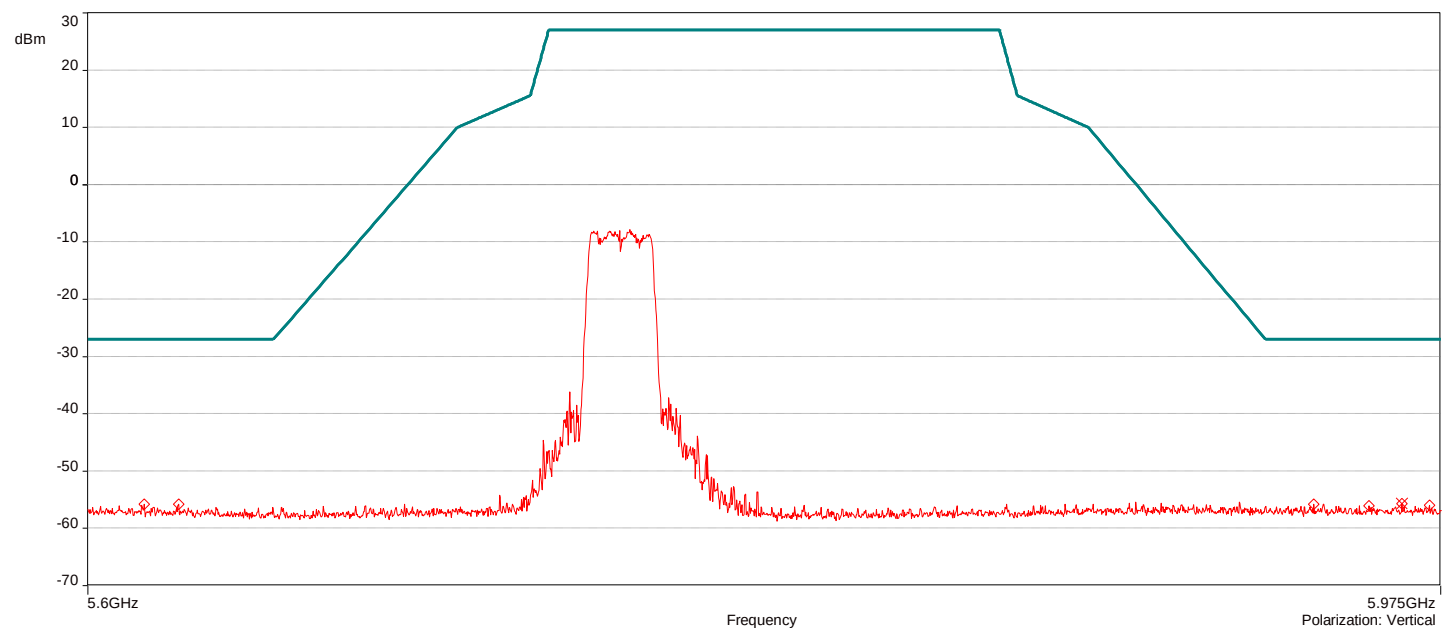
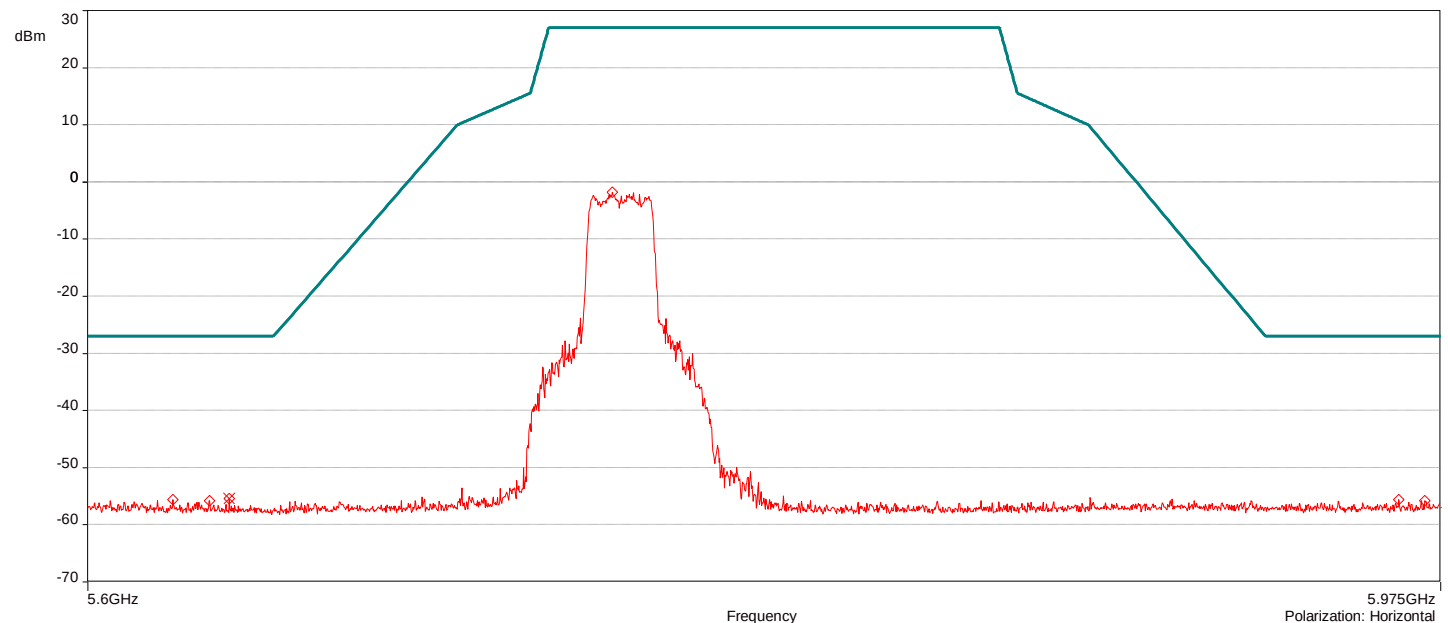


J23134 ER 3B#001_Restricted Bandedge_5G_UNII-3 802.11ac_MCS0_20MHz_Ch 149

5/5/2025 6:03:01 PM

No	Frequency (MHz)	Level Peak Reading (dBm)	Correction Factor (dB)	Limit dBm	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.6380625GHz	-55.44	5.70	-27.00	-28.44	3.50	358.90	Horizontal	Passed
2.	5.9639375GHz	-55.64	6.22	-27.00	-28.64	1.50	340.20	Vertical	Passed

Overall Graphs:

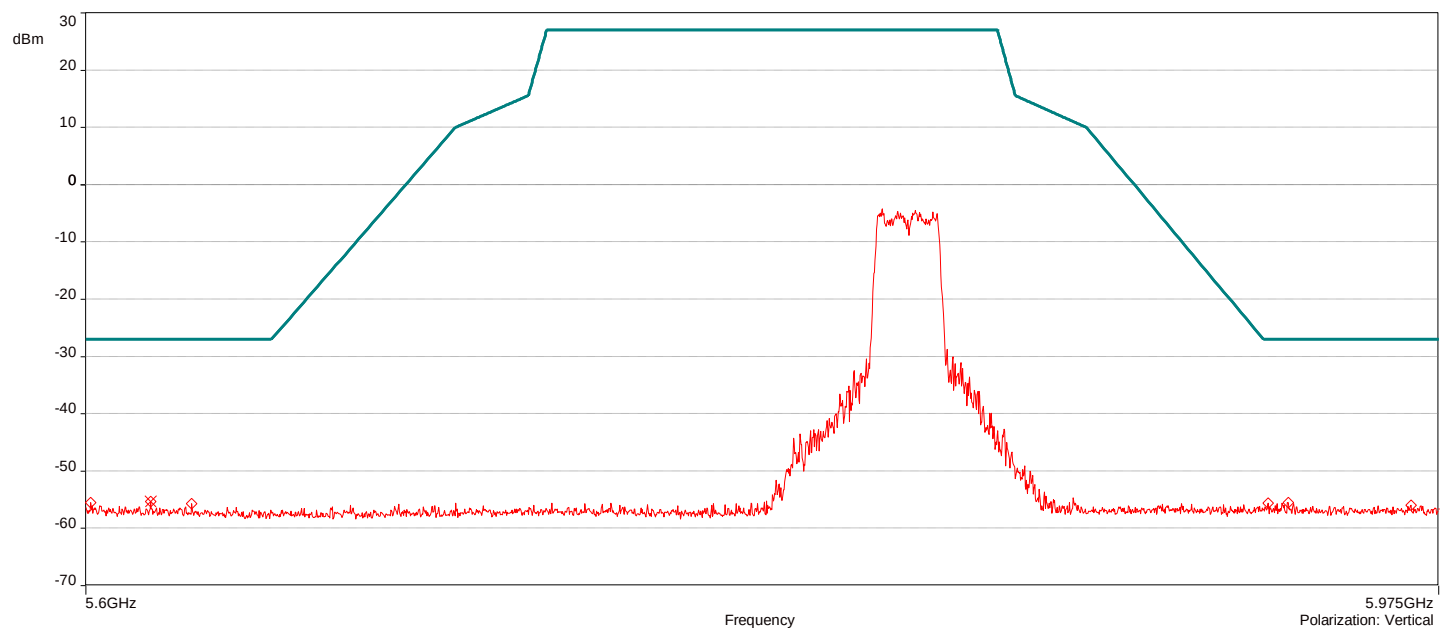
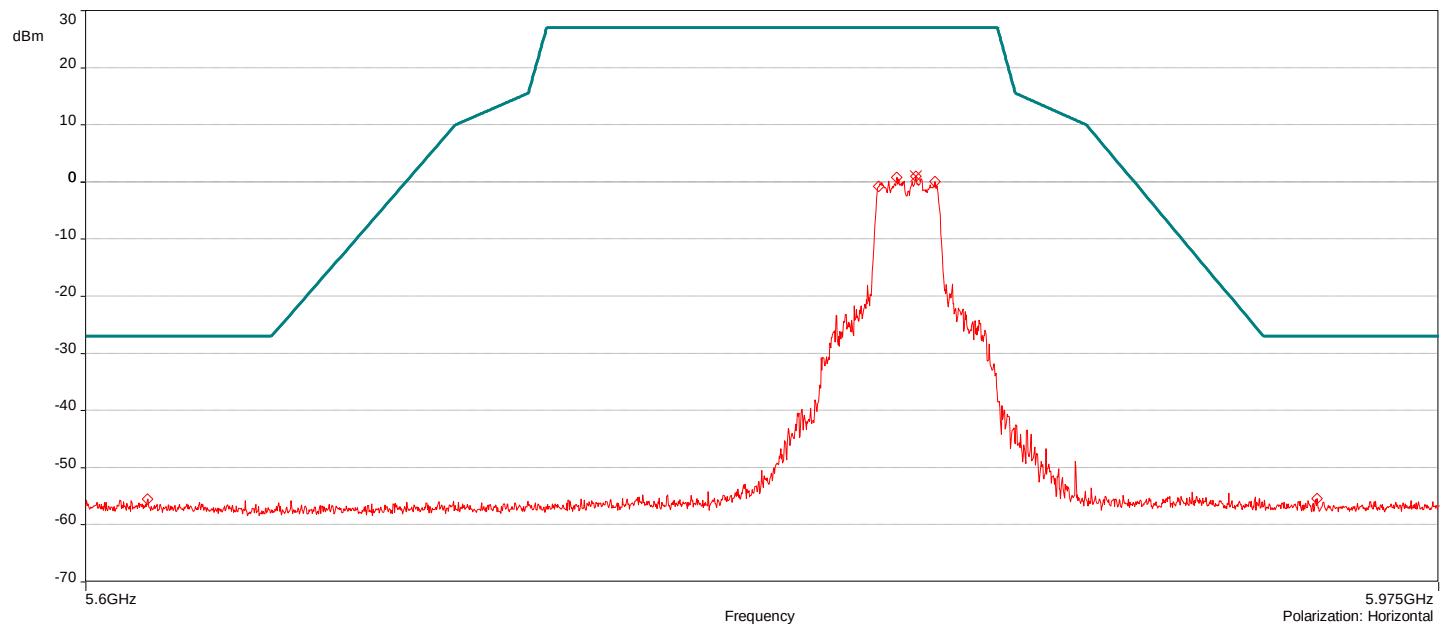


J23134 ER 3B#001_Restricted Bandedge_5G_UNII-3 802.11ac_MCS0_20MHz_Ch 165

5/5/2025 12:22:39 PM

No	Frequency (MHz)	Level Peak Reading (dBm)	Correction Factor (dB)	Limit dBm	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.82725GHz	0.97	5.62	27.00	-26.03	1.00	352.50	Horizontal	Passed
2.	5.6174375GHz	-55.30	5.70	-27.00	-28.30	4.00	358.90	Vertical	Passed

Overall Graphs:

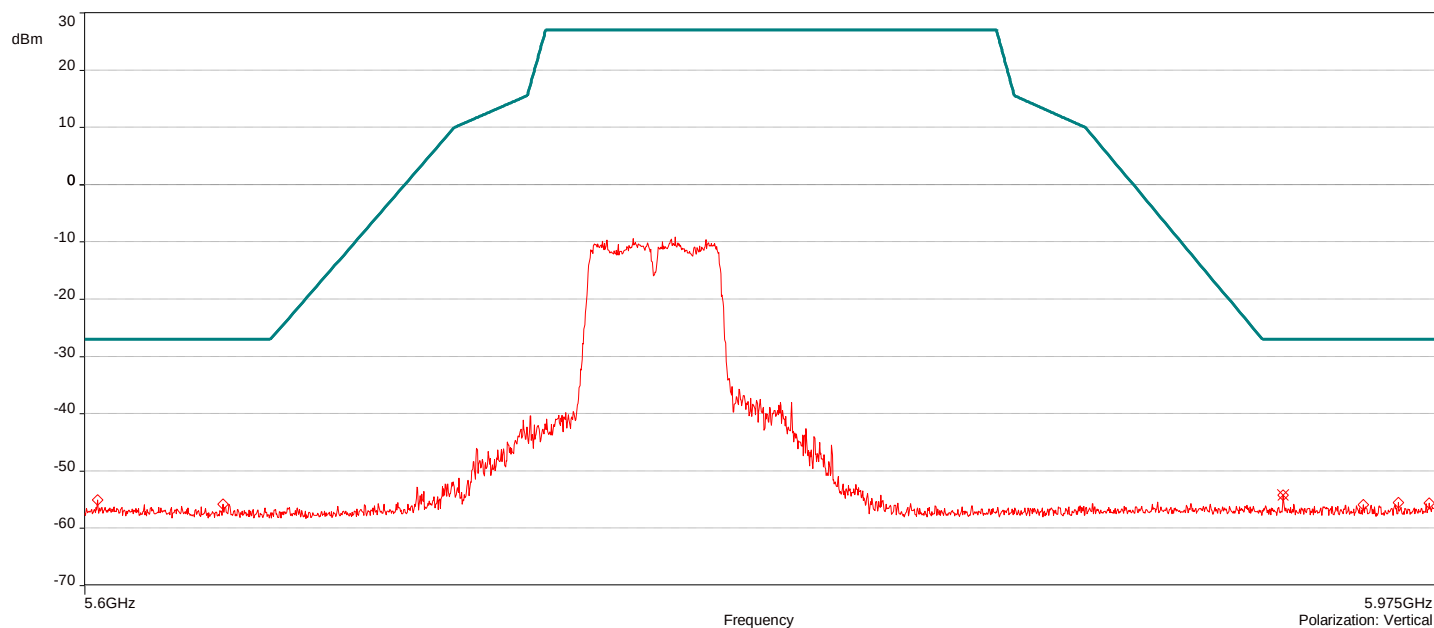
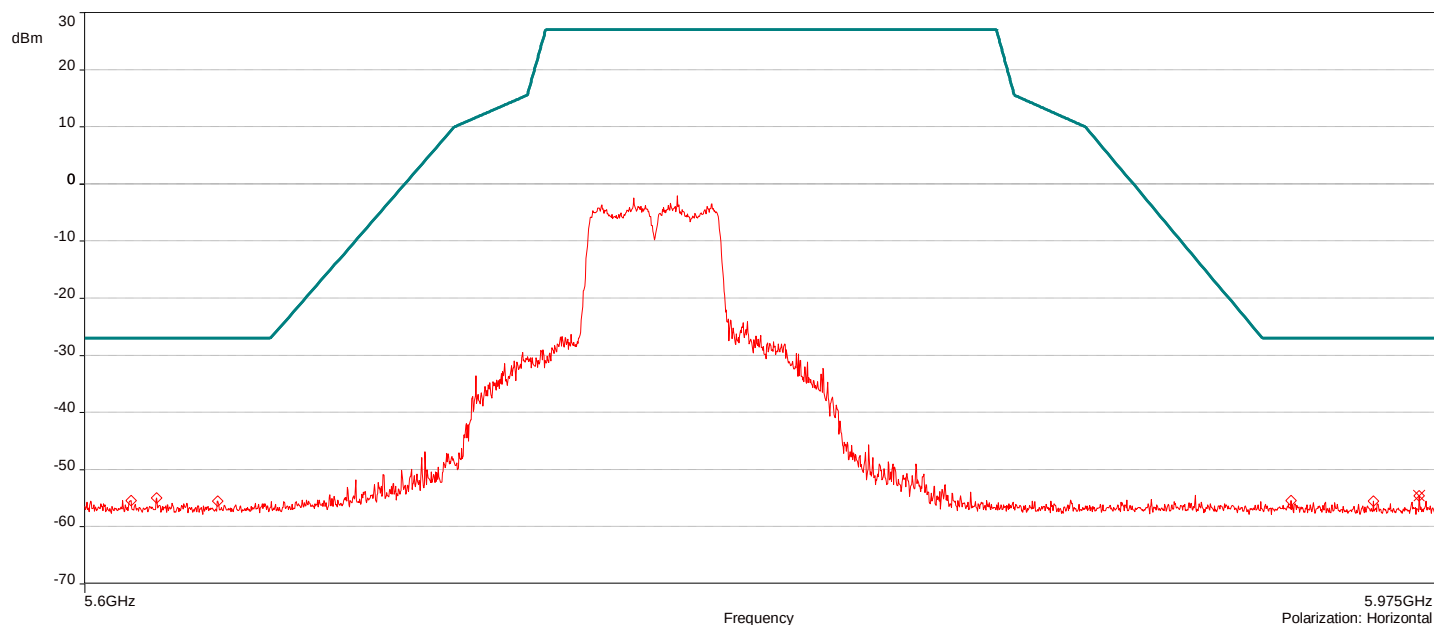


J23134 ER 3B#001_Restricted Bandedge_5G_UNII-3 802.11ac_MCS0_40MHz_Ch 151

5/5/2025 12:33:56 PM

No	Frequency (MHz)	Level Peak Reading (dBm)	Correction Factor (dB)	Limit dBm	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.96975GHz	-54.61	6.20	-27.00	-27.61	4.00	279.30	Horizontal	Passed
2.	5.9309375GHz	-54.20	6.19	-27.00	-27.20	3.00	305.50	Vertical	Passed

Overall Graphs:

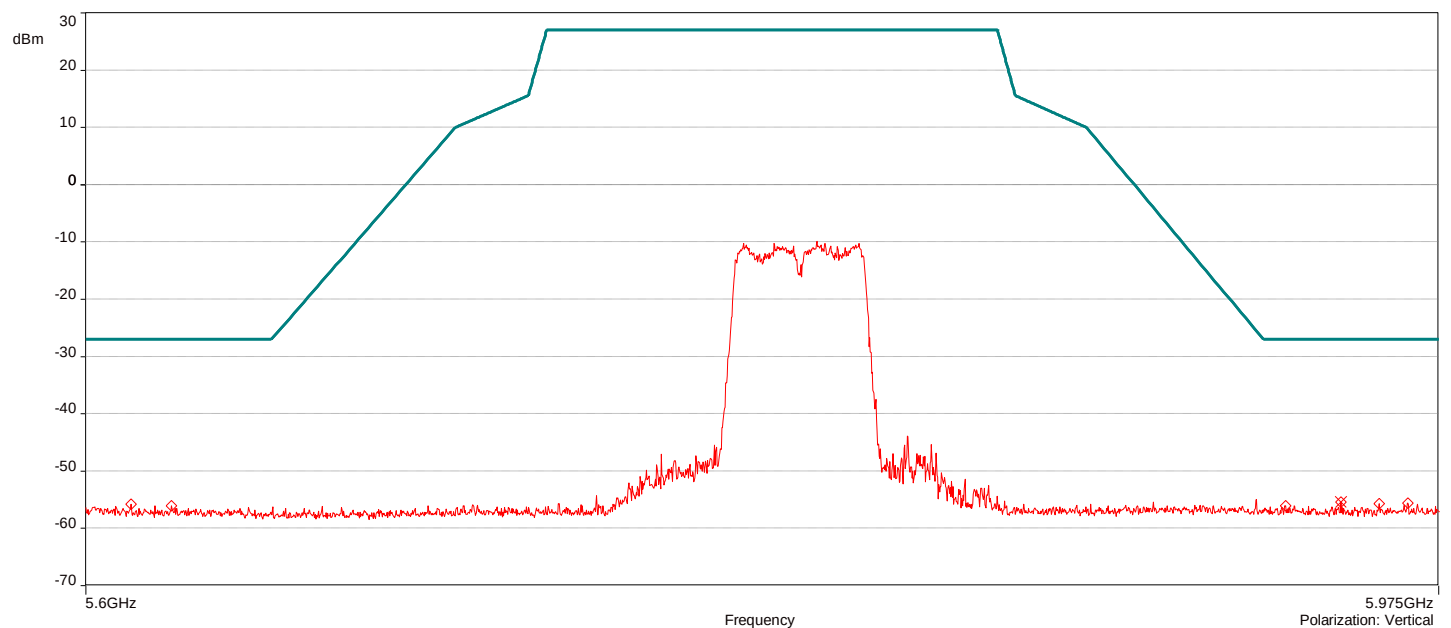
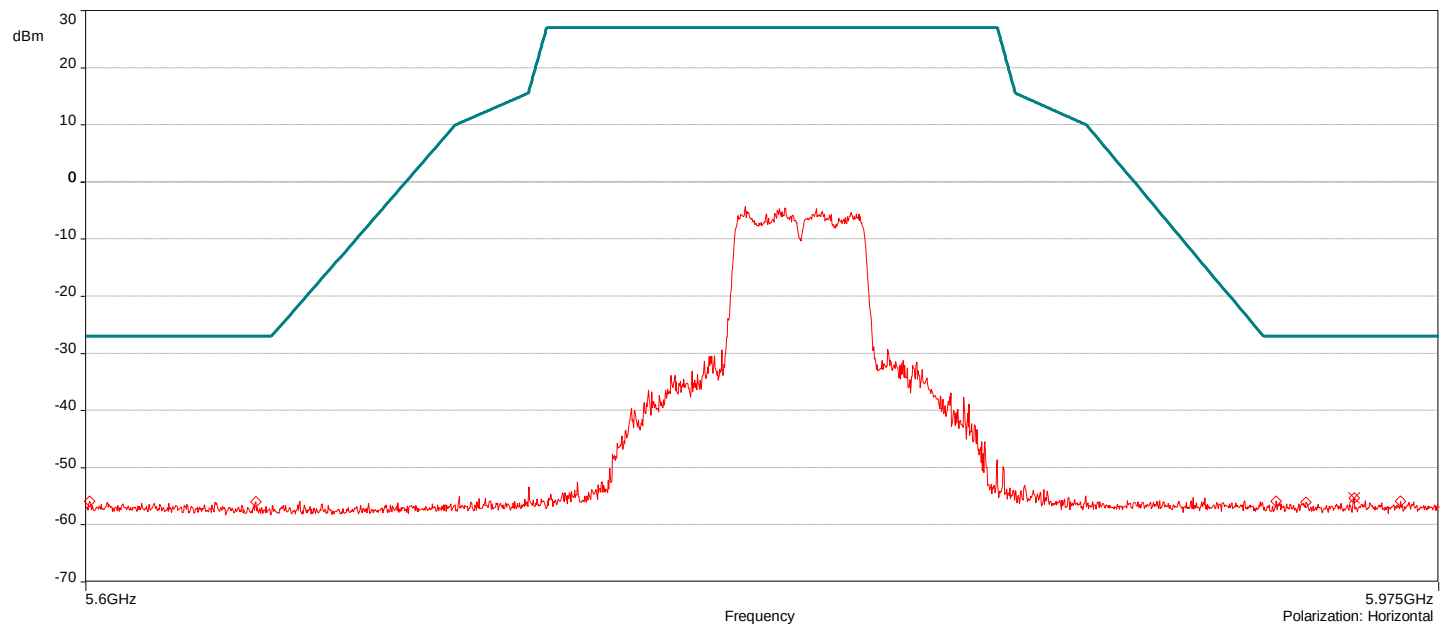


J23134 ER 3B#001_Restricted Bandedge_5G_UNII-3 802.11ac_MCS0_40MHz_Ch 159

5/5/2025 6:13:47 PM

No	Frequency (MHz)	Level Peak Reading (dBm)	Correction Factor (dB)	Limit dBm	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.9508125GHz	-55.33	6.16	-27.00	-28.33	1.50	358.90	Horizontal	Passed
2.	5.9470625GHz	-55.38	6.21	-27.00	-28.38	3.50	235.40	Vertical	Passed

Overall Graphs:

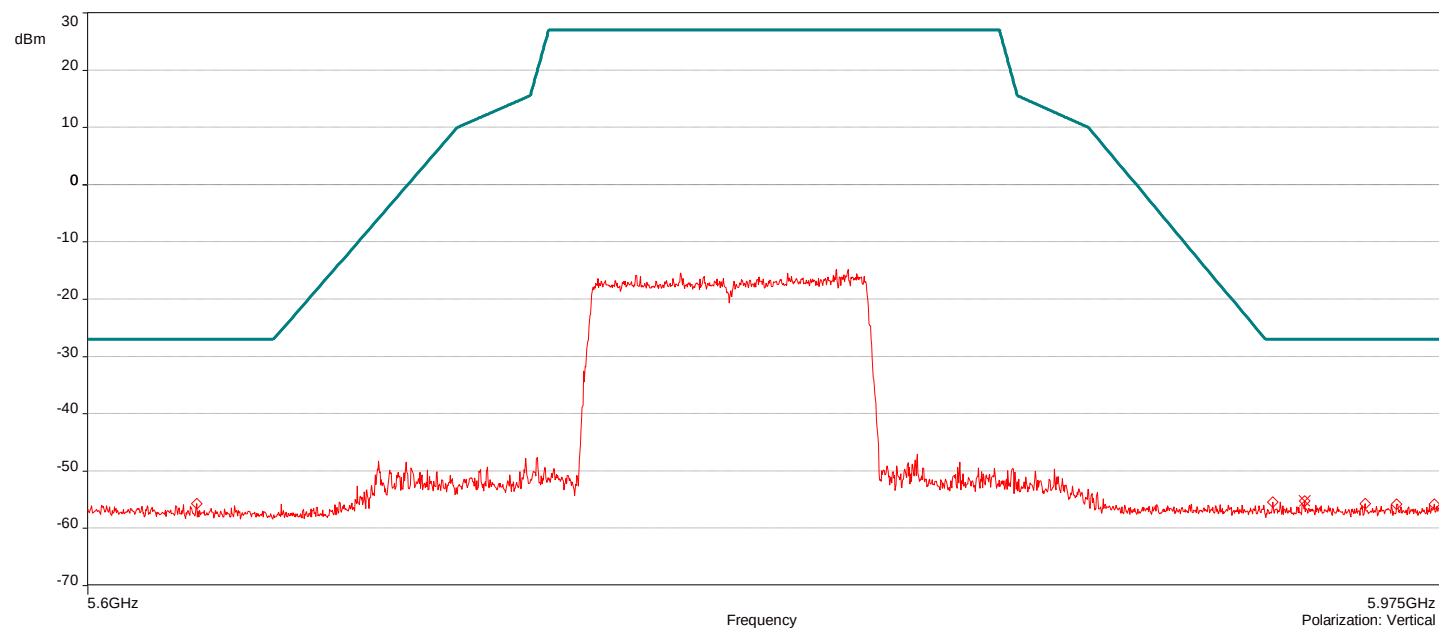
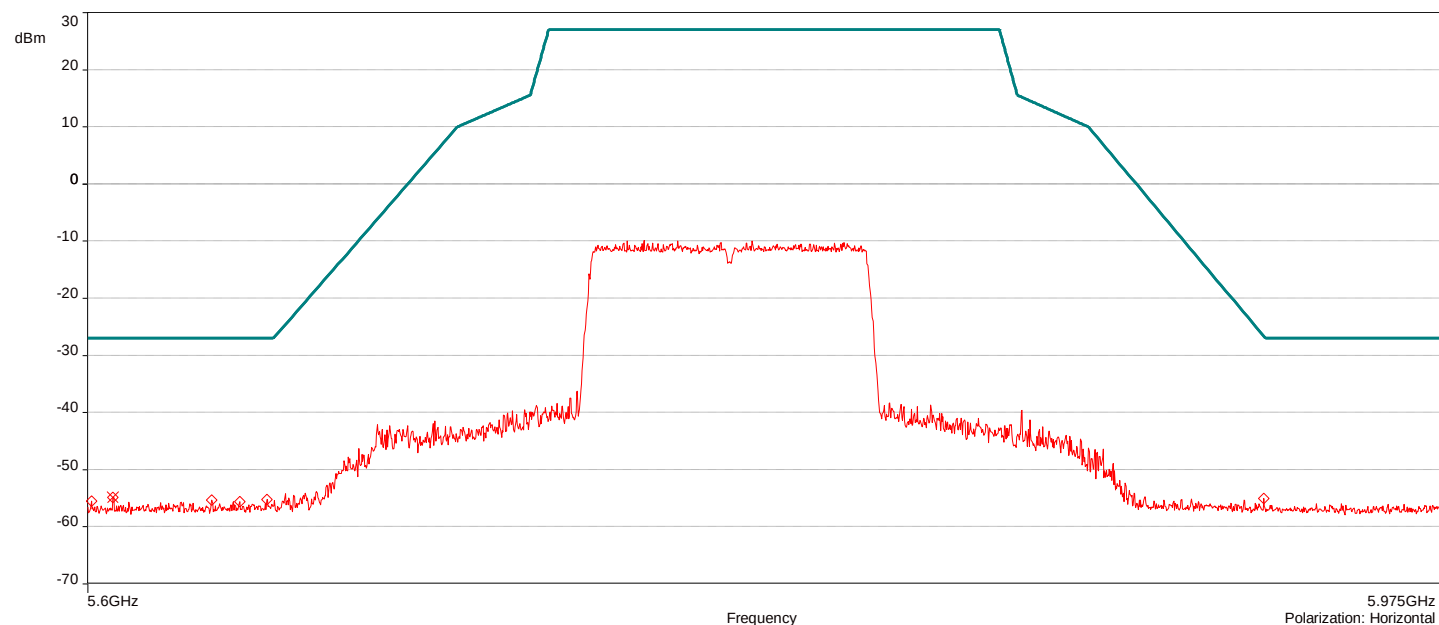


J23134 ER 3B#001_Restricted Bandedge_5G_UNII-3 802.11ac_MCS0_80MHz_Ch 155

5/5/2025 12:44:58 PM

No	Frequency (MHz)	Level Peak Reading (dBm)	Correction Factor (dB)	Limit dBm	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.60675GHz	-54.83	5.75	-27.00	-27.83	2.00	256.20	Horizontal	Passed
2.	5.9361875GHz	-55.26	6.21	-27.00	-28.26	2.00	161.10	Vertical	Passed

Overall Graphs:

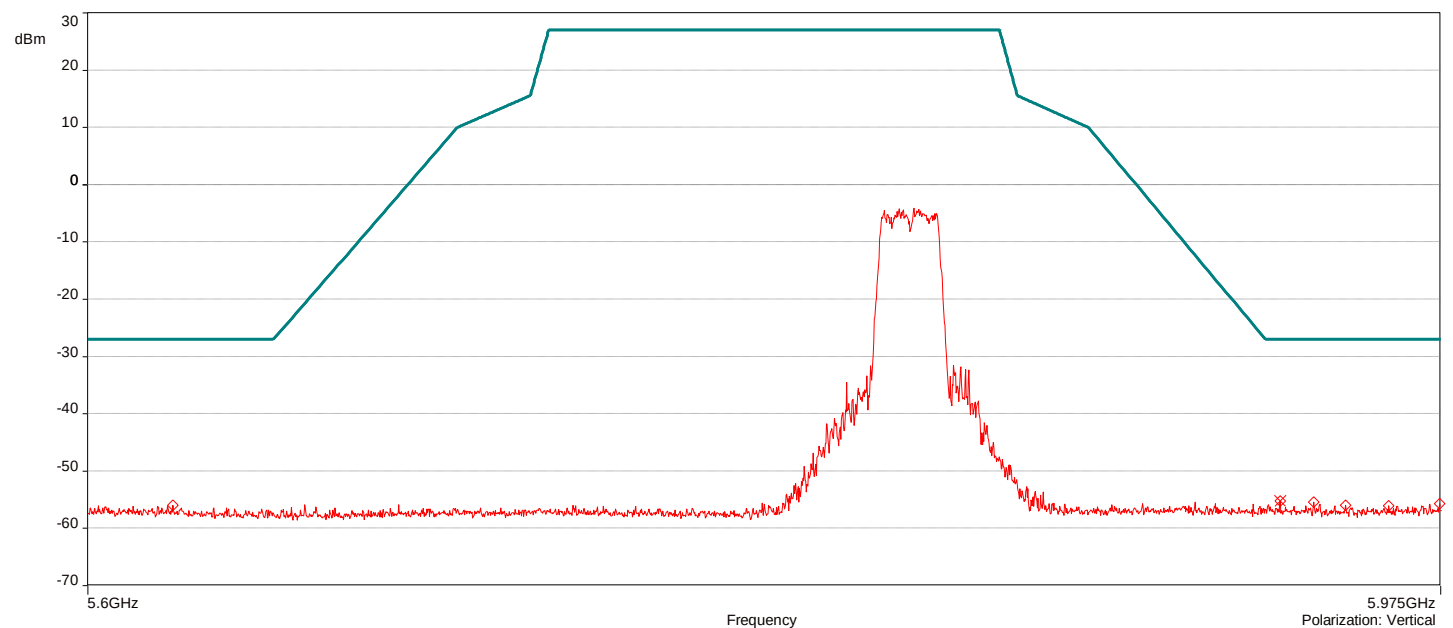
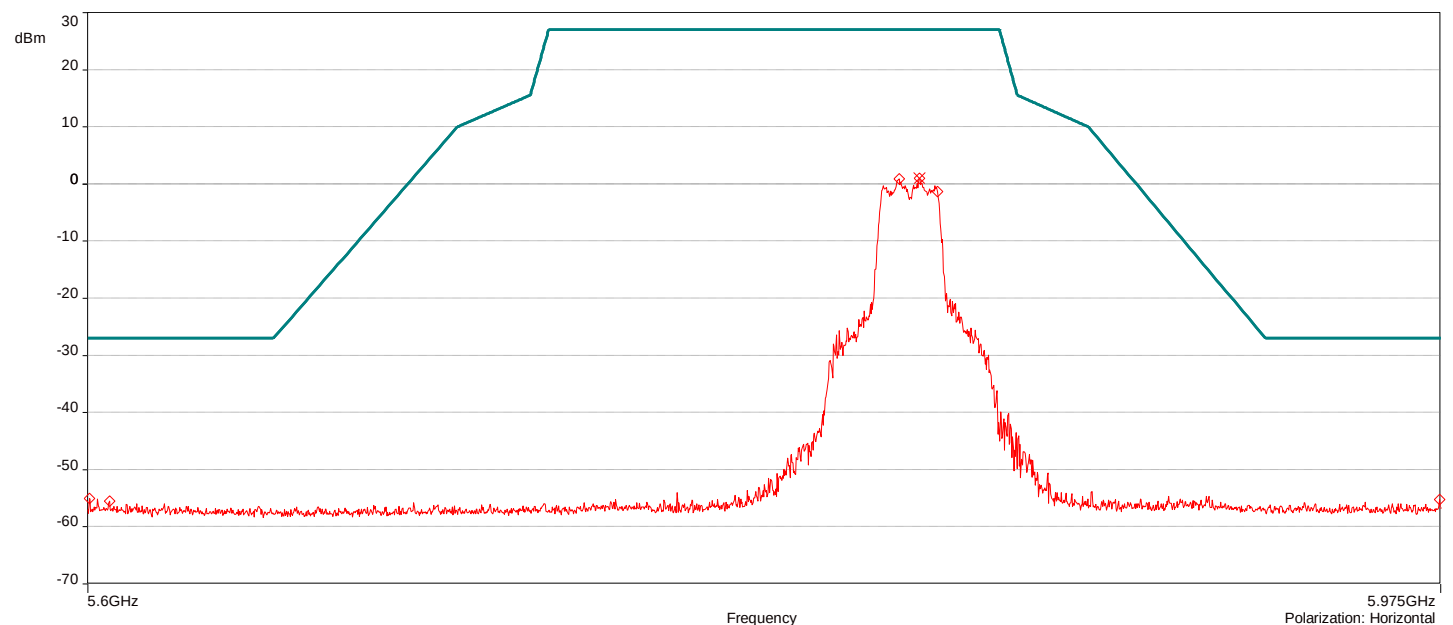


J23134 ER 3B#001_Restricted Bandedge_5G_UNII-3 802.11a_MCS0_20MHz_Ch 165

5/5/2025 12:56:16 PM

No	Frequency (MHz)	Level Peak Reading (dBm)	Correction Factor (dB)	Limit dBm	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.827625GHz	1.05	5.62	27.00	-25.95	1.50	39.80	Horizontal	Passed
2.	5.92925GHz	-55.17	6.19	-27.00	-28.17	1.50	87.90	Vertical	Passed

Overall Graphs:

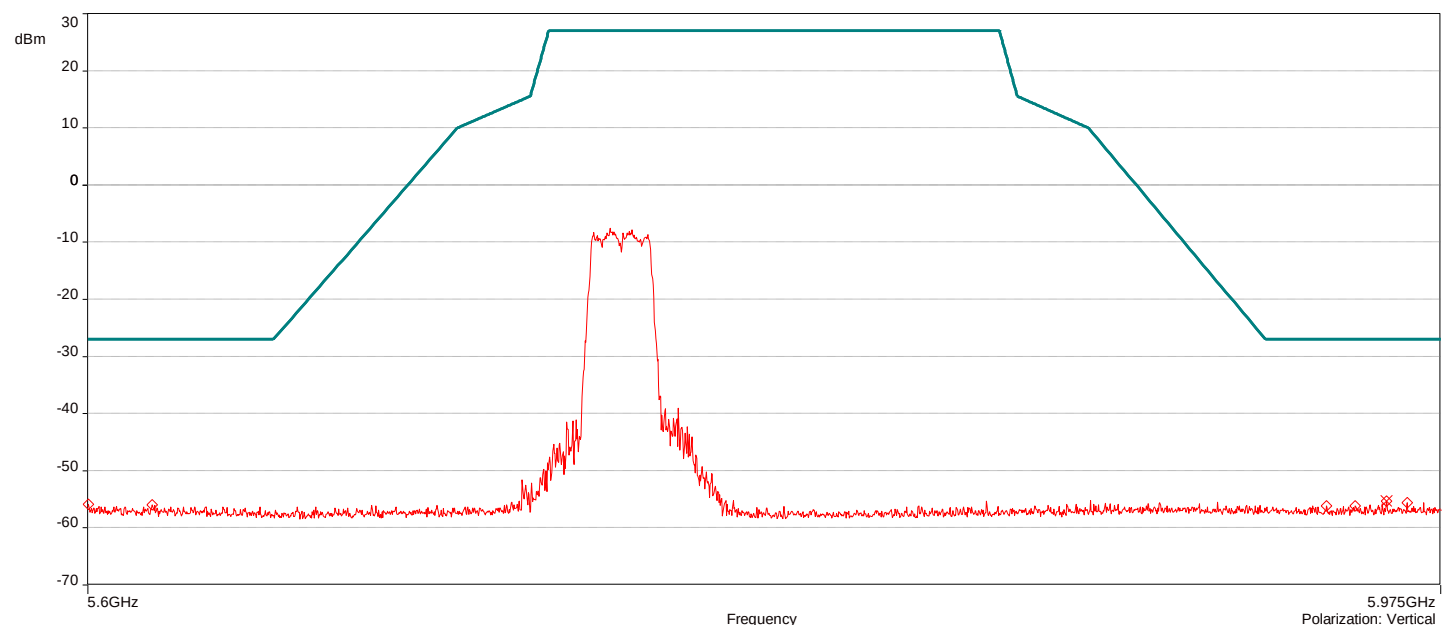
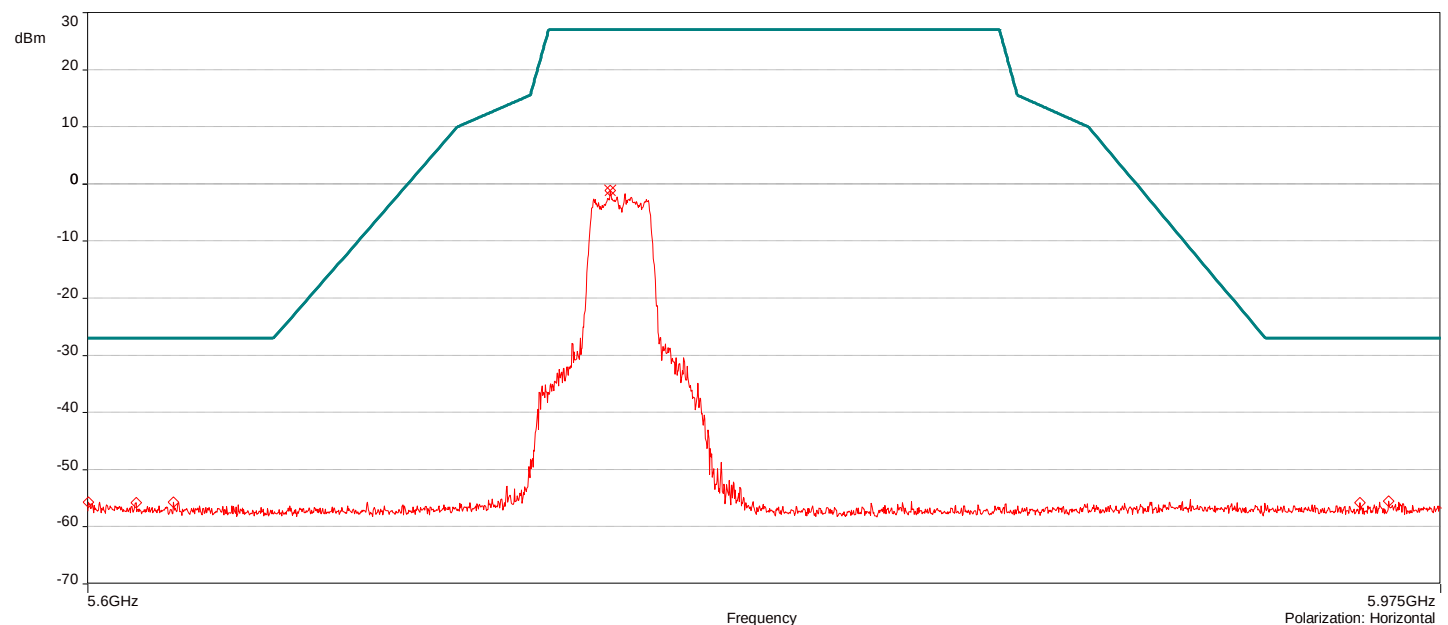


J23134 ER 3B#001_Restricted Bandedge_5G_UNII-3 802.11a_MCS0_20MHz_Ch 149

5/5/2025 6:25:45 PM

No	Frequency (MHz)	Level Peak Reading (dBm)	Correction Factor (dB)	Limit dBm	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	5.7419375GHz	-1.09	5.46	27.00	-28.09	1.50	39.60	Horizontal	Passed
2.	5.9594375GHz	-55.31	6.22	-27.00	-28.31	3.00	132.00	Vertical	Passed

Overall Graphs:



Document Revisions

Version	Date	Modifier	Changes
1.0	05/09/2025	Aravind Buddana	Initial Draft

End of Report