



TEST REPORT

Certificate #4312.01

Product Name: Wi-Fi 6 Extender and Access Point
Trade Mark: GRANDSTREAM
Model No.: GWN7660EM
Report Number: 25081819514RFC-2
Test Standards: FCC 47 CFR Part 15 Subpart E
FCC ID: YZZGWN7660EM
Test Result: PASS
Date of Issue: November 14, 2025

Prepared for:

Grandstream Networks, Inc.
126 Brookline Ave., 3rd Floor Boston, MA 02215, USA

Prepared by:

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Date:

November 14, 2025

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UTTR-RF-FCCPART15.407-V1.3

Version

Version No.	Date	Description
V1.0	November 14, 2025	Original

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UTTR-RF-FCCPART15.407-V1.3

CONTENTS

1. GENERAL INFORMATION	4
1.1 CLIENT INFORMATION	4
1.2 EUT INFORMATION	4
1.2.1 GENERAL DESCRIPTION OF EUT	4
1.2.2 DESCRIPTION OF ACCESSORIES	4
1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	4
1.4 OTHER INFORMATION	6
1.5 DESCRIPTION OF SUPPORT UNITS	6
1.6 TEST LOCATION	7
1.7 TEST FACILITY	7
1.8 DEVIATION FROM STANDARDS	7
1.9 ABNORMALITIES FROM STANDARD CONDITIONS	7
1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER	7
1.11 MEASUREMENT UNCERTAINTY	8
2. TEST SUMMARY	9
3. EQUIPMENT LIST	10
4. TEST CONFIGURATION	12
4.1 ENVIRONMENTAL CONDITIONS FOR TESTING	12
4.1.1 NORMAL OR EXTREME TEST CONDITIONS	12
4.1.2 RECORD OF NORMAL ENVIRONMENT AND TEST SAMPLE	12
4.2 TEST CHANNELS	12
4.3 EUT TEST STATUS	14
4.4 PRE-SCAN	14
4.5 TEST SETUP	15
4.5.1 FOR RADIATED EMISSIONS TEST SETUP	15
4.5.2 FOR CONDUCTED EMISSIONS TEST SETUP	16
4.5.3 FOR CONDUCTED RF TEST SETUP	17
4.6 SYSTEM TEST CONFIGURATION	18
4.7 DUTY CYCLE	19
5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION	25
5.1 REFERENCE DOCUMENTS FOR TESTING	25
5.2 ANTENNA REQUIREMENT	25
5.3 26 dB BANDWIDTH & 99% OCCUPIED BANDWIDTH	26
5.4 6 dB BANDWIDTH & 99% OCCUPIED BANDWIDTH	27
5.5 MAXIMUM CONDUCTED OUTPUT POWER & TRANSMIT POWER CONTROL	28
5.6 PEAK POWER SPECTRAL DENSITY	39
5.7 RADIATED EMISSIONS AND BAND EDGE MEASUREMENT	41
5.8 AC POWER LINE CONDUCTED EMISSION	106
APPENDIX A RF TEST DATA	109
A.1 99% & 26dB BANDWIDTH	109
A.2 PEAK POWER SPECTRAL DENSITY	264
A.3 6dB BANDWIDTH	438
APPENDIX 1 PHOTOS OF TEST SETUP	469
APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS	469

1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Grandstream Networks, Inc.
Address of Applicant:	126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Manufacturer:	Grandstream Networks, Inc.
Address of Manufacturer:	126 Brookline Ave., 3rd Floor Boston, MA 02215, USA

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Wi-Fi 6 Extender and Access Point		
Model No.:	GWN7660EM		
Trade Mark:	GRANDSTREAM		
DUT Stage:	Identical Prototype		
EUT Supports Function: (Provided by the customer)	2.4 GHz ISM Band:	IEEE 802.11b/g/n/ax	
	U-NII 5 GHz Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac/ax
		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac/ax
		5 470 MHz to 5 725 MHz	IEEE 802.11a/n/ac/ax
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac/ax
		5 850 MHz to 5 895 MHz	IEEE 802.11a/n/ac/ax
Software Version:	1.0.24.4(Provided by the customer)		
Hardware Version:	V1.1(Provided by the customer)		
Sample Received Date:	August 16, 2025		
Sample Tested Date:	August 27, 2025 October 22, 2025		
Remark:	The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.		

1.2.2 Description of Accessories

None.

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Bands:	5150 MHz to 5250 MHz (U-NII-1)
	5250 MHz to 5350 MHz (U-NII-2A)
	5470 MHz to 5725 MHz (U-NII-2C)
	5725 MHz to 5850 MHz (U-NII-3)
Frequency Ranges:	5180 MHz to 5240 MHz
	5260 MHz to 5320 MHz
	5500 MHz to 5720 MHz
	5745 MHz to 5825 MHz
Support Standards:	IEEE 802.11a/n/ac/ax
TPC Function:	Support
DFS Operational mode:	Master
Type of Modulation:	IEEE 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
	IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
	IEEE 802.11ax: OFDM/OFDMA ^{Note1} (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20: 20 MHz

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	IEEE 802.11n-HT40/ac-VHT40/ax-HE40: 40 MHz				
	IEEE 802.11ac-VHT80/ax-HE80: 80 MHz				
	IEEE 802.11ac-VHT160/ax-HE160: 160 MHz				
Data Rate:	IEEE 802.11a: Up to 54 Mbps				
	IEEE 802.11n: Up to MCS23				
	IEEE 802.11ac-VHT20: Up to MCS8				
	IEEE 802.11ac-VHT40/VHT80/VHT160: Up to MCS9				
	IEEE 802.11ax-HE20/HE40/HE80/HE160: Up to MCS11				
Number of Channels:	5150 MHz to 5350 MHz: 8 for 802.11a/n-HT20/ac-VHT20/ax-HE20 4 for 802.11n-HT40/ac-VHT40/ax-HE40 2 for 802.11ac-VHT80/ax-HE80 1 for 802.11ac-VHT160/ax-HE160				
	5470 MHz to 5725 MHz: 11 for 802.11a/n-HT20/ac-VHT20/ax-HE20 5 for 802.11n-HT40/ac-VHT40/ax-HE40 2 for 802.11ac-VHT80/ax-HE80 1 for 802.11ac-VHT160/ax-HE160				
	5725 MHz to 5850 MHz: 5 for IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20 2 for IEEE 802.11n-HT40/ac-VHT40/ax-HE40 1 for IEEE 802.11ac-VHT80/ax-HE80				
Antenna Type: (Provided by the customer)	Antenna 1:	PIFA Antenna			
	Antenna 2:	PIFA Antenna			
	Antenna 3:	PIFA Antenna			
Antenna Gain (Provided by the customer)	Antenna	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	Antenna 1:	2.88	2.88	2.88	2.88
	Antenna 2:	2.88	2.88	2.88	2.88
	Antenna 3:	2.57	2.57	2.57	2.57
Normal Test Voltage:	120 Vac				
Note 1: For IEEE 802.11ax, the customer declaration the product supports only the Full RU mode.					

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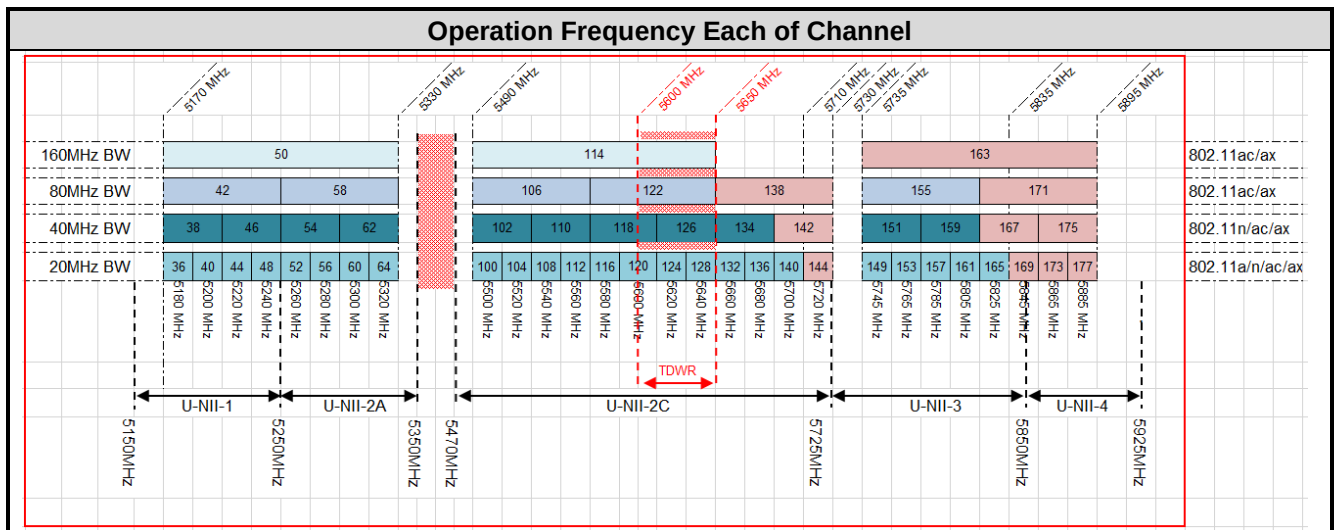
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1.4 OTHER INFORMATION



1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	FCC ID	Supplied by
Key-Press Attenuator	Huaxin	KT2.5-90/1S-2S	UTTL-EN023	N/A	UnionTrust
4 Way Divider	WOKEN	0120A04056000 2D	UTTL-EN028	N/A	UnionTrust
Wireless Router	SAGEMCOM	RAC2V1S	253703944	VW3FAST5280	UnionTrust
Notebook	Lenovo	B40-80	MP12NEQ6	N/A	UnionTrust
Mouse	DELL	MS111	CN-011D3V-738	N/A	UnionTrust
Enterprise Full Touch Handheld Computer	Bluebird Inc.	EF551	S2022120907-Z JC12/12	N/A	UnionTrust
Router	H3C	H3C Magic NX30 Pro	2023AP4524	N/A	UnionTrust

2) Support Cable

Cable No.	Description	Connector	Length(Meter)	Supplied by
1	Ethernet Cable	RJ45	1.5 Unshielded without ferrite	UnionTrust
2	Antenna Cable*3	SMA	0.1	UnionTrust

1.6 TEST LOCATION

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1.7 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

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1.11 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted emission 9KHz-150KHz	±3.2 dB
2	Conducted emission 150KHz-30MHz	±2.7 dB
3	Radiated emission 9KHz-30MHz	± 4.7 dB
4	Radiated emission 30MHz-1GHz	± 4.9 dB
5	Radiated emission 1GHz-18GHz	± 4.8 dB
6	Radiated emission 18GHz-26GHz	± 5.1 dB
7	Radiated emission 26GHz-40GHz	± 5.1 dB
8	Conducted spurious emissions	± 2.7 dB
9	RF Power, Conducted	± 0.68 dB
10	Occupied Bandwidth	± 1.86 %
11	Radio Frequency	5.6 GHz: ± 6.4 x 10 ⁻⁸
12	Transmission Time	± 0.19 %

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2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart E Test Cases			
Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203 FCC 47 CFR Part 15 Subpart E Section 15.407(a)(1) (2)	N/A	PASS
26 dB emission bandwidth	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(2)(5)	KDB 789033 D02 v02r01 Section C.1	PASS
6 dB bandwidth	FCC 47 CFR Part 15 Subpart E Section 15.407 (e)	KDB 789033 D02 v02r01 Section C.2	PASS
99% Occupied Bandwidth	N/A	KDB 789033 D02 v02r01 Section D	N/A Note 3
Maximum conducted output power & Transmit Power Control	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)& (h)(1)	KDB 789033 D02 v02r01 Section E.3.a (Method PM)	PASS
Peak Power Spectral Density	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)	KDB 789033 D02 v02r01 Section F	PASS
Radiated Emissions and Band Edge Measurement	FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6) FCC 47 CFR Part 15 Subpart C Section 15.209/205	KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6	PASS
Dynamic Frequency Selection	FCC 47 CFR Part 15 Subpart E Section 15.407 (h)	KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02	PASS Note2
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(6) FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2020, Section 6.2.	PASS
Note: 1) N/A: In this whole report not applicable. 2) Please refer to Report No.: 25081819514RFC-3 for DFS Test report. 3) No test requirement, for reporting purposes only.			
Disclaimer and Explanations: The declared of product specification and data (e.g., antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.			

3. EQUIPMENT LIST

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3m SAC	ETS-LINDGREN	3m	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☒	Receiver	R&S	ESIB26	100114	25-Oct-2024	24-Oct-2025
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	28-Mar-2025	27-Mar-2026
☒	Loop Antenna	ETS-LINDGREN	6502	00202525	28-Oct-2024	27-Oct-2025
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	29-Oct-2024	28-Oct-2025
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	29-Oct-2024	28-Oct-2025
☒	Preamplifier	HP	8447F	2805A02960	25-Oct-2024	24-Oct-2025
☒	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	29-Mar-2025	28-Mar-2026
☒	Pre-amplifier	ETS-Lindgren	00118385	00201874	29-Mar-2025	28-Mar-2026
☒	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	28-Oct-2024	27-Oct-2025
☒	Pre-amplifier	ETS-Lindgren	00118384	00202652	28-Oct-2024	27-Oct-2025
☒	Band Rejection Filter (5150MHz~5880MHz)	Micro-Tronics	BRM50716	G186	25-Oct-2024	24-Oct-2025
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

Conducted Emission Test						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	Receiver	R&S	ESC13	1166.5950.03	25-Oct-2024	24-Oct-2025
☒	LISN	ETS-Lindgren	3816/2SH	00201088	25-Oct-2024	24-Oct-2025
☒	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	25-Oct-2024	24-Oct-2025
☒	Shielding room	ETS-Lindgren	843	Euroshiedpn-C T001270-1246	N/A	N/A
☒	Test Software	EZ-EMC	EZ-CON	Software Version: EMC-CON 3A1.1		

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Conducted RF test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	28-Mar-2025	27-Mar-2026
☒	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	25-Oct-2024	24-Oct-2025
☒	EXG-B RF Analog Signal Generator	KEYSIGHT	N5171B	MY53051777	25-Oct-2024	24-Oct-2025
☒	MXG X-Series RF Vector Signal Generator	KEYSIGHT	N5182B	MY51350267	25-Oct-2024	24-Oct-2025
☒	Spectrum Analyzer	R&S	FSV40-N	101653	28-Mar-2025	27-Mar-2026
☒	Band Rejection Filter (5150MHz~5880MHz)	Micro-Tronics	BRM50716	G186	25-Oct-2024	24-Oct-2025

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4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
NT/NV	+15 to +35	120	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

4.1.2 Record of Normal Environment and Test Sample

Test Item	Temp. (°C)	Relative Humidity (%)	Pressure (kPa)	Sample No.	Tested by
AC Power Line Conducted Emission	22.3	44.2	99.7	S202508166685-ZJA01/5	Fire Huo
26 dB emission bandwidth	22.4	42.6	100.5	S202508166685-ZJA04/5	David Du
Maximum conducted output power					
Peak Power Spectral Density					
6 dB bandwidth					
Dynamic Frequency Selection	23.1	54.2	99.9	S202508166685-ZJA03/5	Leo Li
Radiated Emissions and Band Edge Measurement					

4.2 TEST CHANNELS

Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11a IEEE 802.11n-HT20 IEEE 802.11ac-VHT20 IEEE 802.11ax-HE20	5150 - 5250 MHz	Channel 36	Channel 40	Channel 48
		5180 MHz	5200 MHz	5240 MHz
	5250 - 5350 MHz	Channel 52	Channel 56	Channel 64
		5260 MHz	5280 MHz	5320 MHz
	5470 - 5725 MHz	Channel 100	Channel 120	Channel 140/ Channel 144
		5500 MHz	5600 MHz	5700 MHz/ 5720MHz
	5725 - 5850 MHz	Channel 144/ Channel 149	Channel 157	Channel 165
		5720MHz/ 5745 MHz	5785 MHz	5825 MHz
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40 IEEE 802.11ax-HE4 0	5150 - 5250 MHz	Channel 38	--	Channel 46
		5190 MHz	--	5230 MHz
	5250 - 5350 MHz	Channel 54	--	Channel 62
		5270 MHz	--	5310 MHz
	5470 - 5725 MHz	Channel 102	Channel 118	Channel 134/ Channel 142
		5510 MHz	5590 MHz	5670 MHz/ 5710MHz

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	5725 - 5850 MHz	Channel 142/ Channel 151	--	Channel 159
		5710MHz/ 5755 MHz	--	5795 MHz
IEEE 802.11ac-VHT80 IEEE 802.11ax-HE80	5150 - 5250 MHz	--	Channel 42	--
		--	5210 MHz	--
	5250 - 5350 MHz	--	Channel 58	--
		--	5290 MHz	--
	5470 - 5725 MHz	Channel 106	Channel 122	Channel 138
		5530 MHz	5610 MHz	5569 MHz
	5725 - 5850 MHz	Channel 138	Channel 155	--
		5610 MHz	5775 MHz	--
IEEE 802.11ac-VHT160 IEEE 802.11ax-HE160	5150 - 5350 MHz	Channel 50		
		5250 MHz		
	5470 - 5725 MHz	Channel 114		
		5570 MHz		

4.3 EUT TEST STATUS

Mode	Tx/Rx Function	Description
IEEE 802.11a	1Tx/1Rx	1. Keep the EUT in continuously transmitting or receiving with modulation and data rates test single. 2. Keep the equipment in normal operation and achieve a certain throughput.
IEEE 802.11n	3Tx/3Rx	
IEEE 802.11ac		
IEEE 802.11ax		

Test Software (Provided by the customer)

Test software name: MT7981 QA 0.0.2.78;

4.4 PRE-SCAN

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. Following data rate was (were) selected for the final test as listed below

Mode	Worst-case data rates
IEEE 802.11a	6 Mbps
IEEE 802.11n-HT20	MCS16
IEEE 802.11n-HT40	MCS16
IEEE 802.11ac-VHT20	MCS0
IEEE 802.11ac-VHT40	MCS0
IEEE 802.11ac-VHT80	MCS0
IEEE 802.11ac-VHT160	MCS0
IEEE 802.11ax-HE20	MCS0
IEEE 802.11ax-HE40	MCS0
IEEE 802.11ax-HE80	MCS0
IEEE 802.11ax-HE160	MCS0

4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup

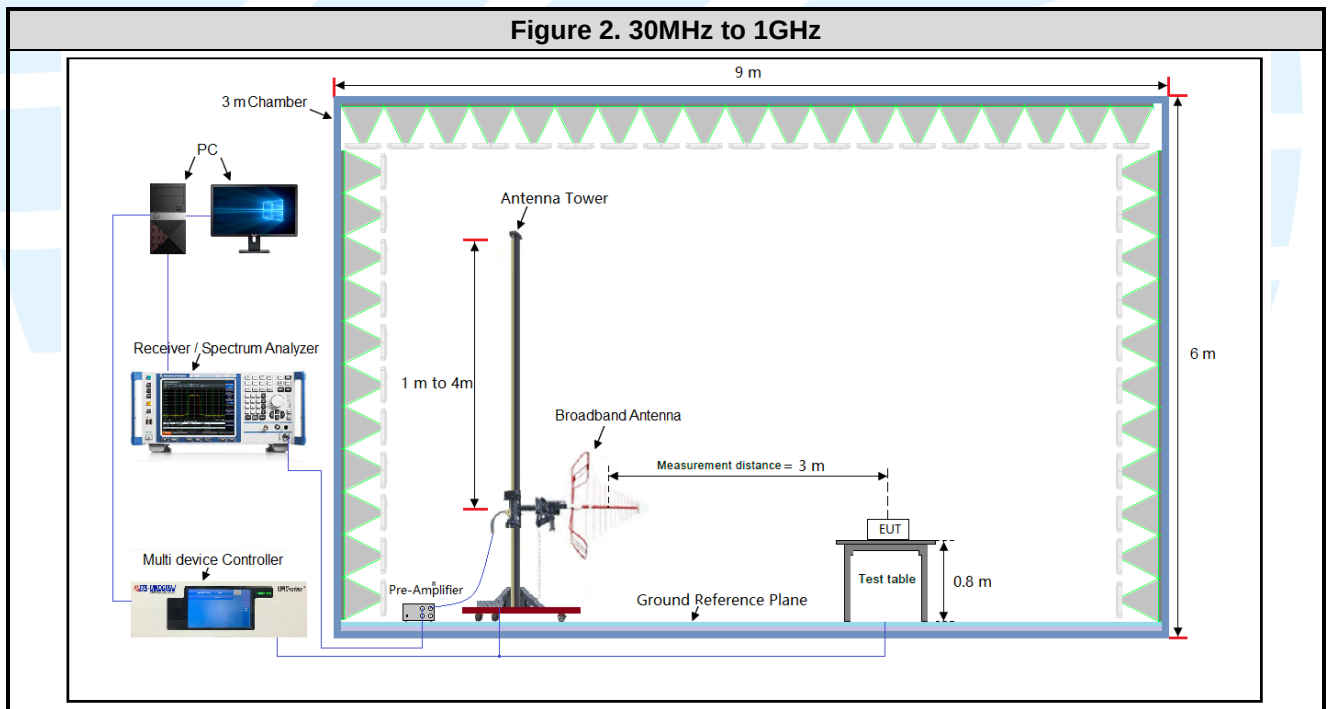
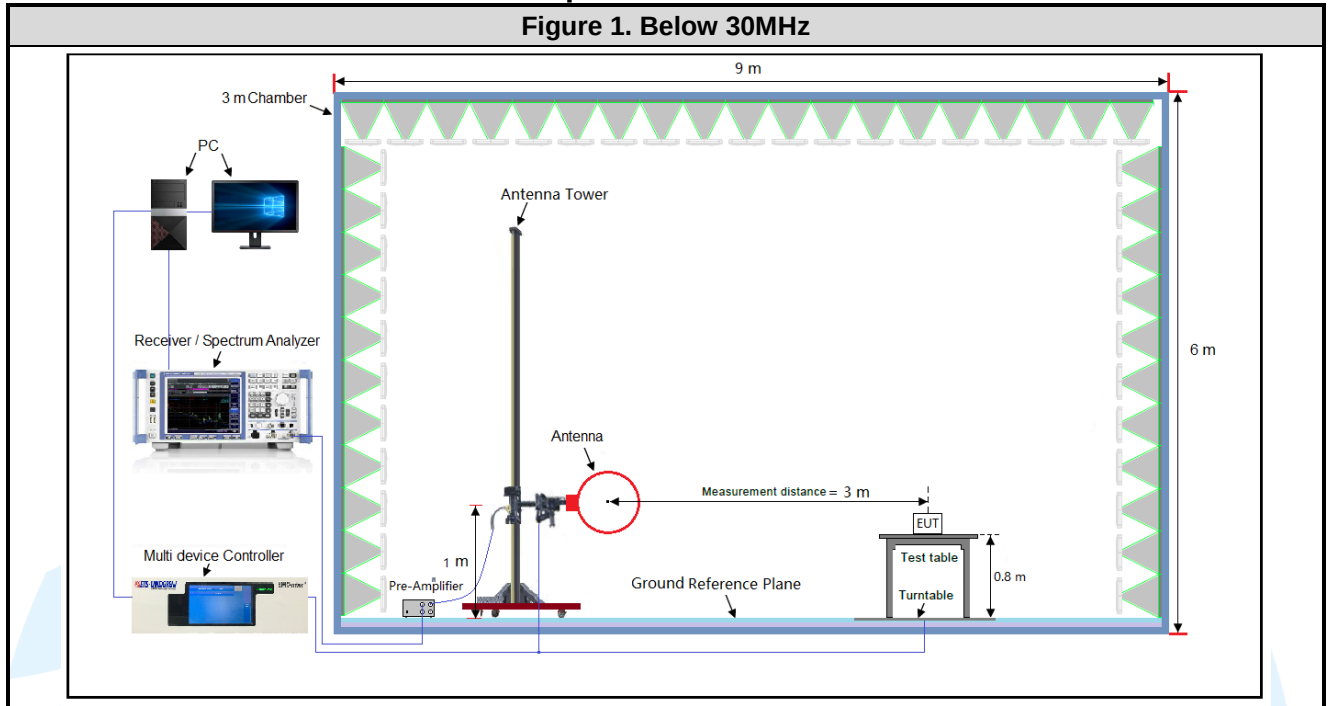


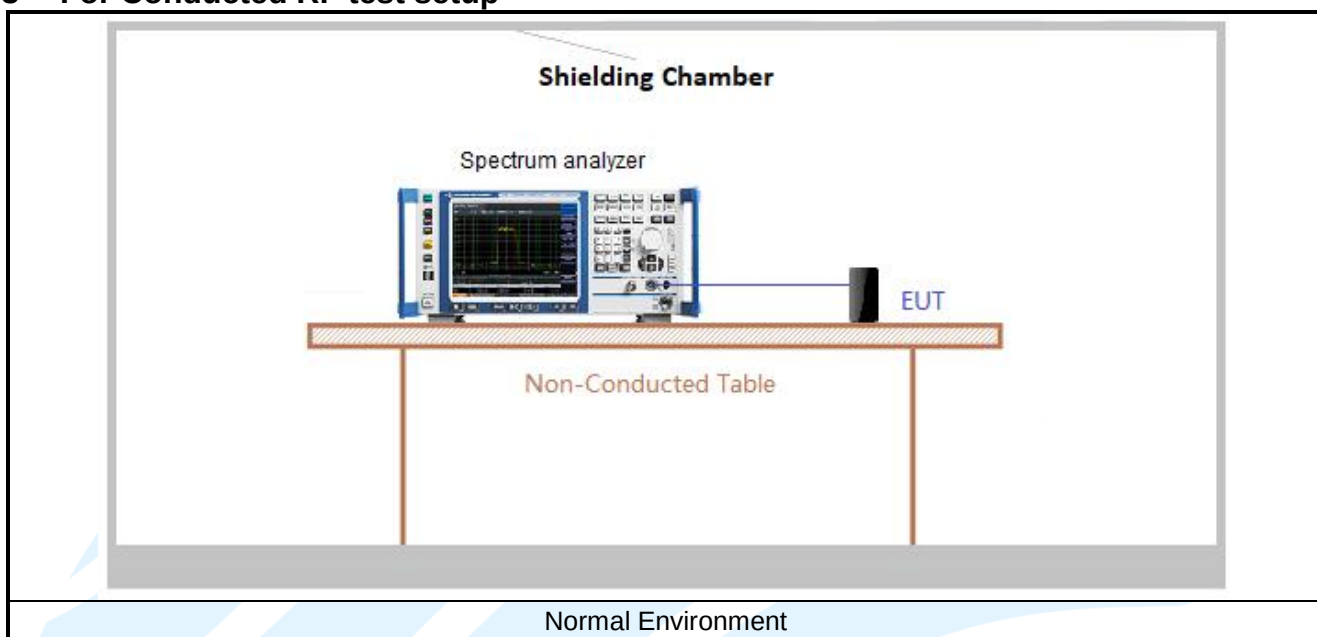
Figure 3. Above 1GHz

The diagram illustrates a 3 m Chamber setup for measurements above 1 GHz. The chamber dimensions are 9 m by 6 m. The internal structure includes an Antenna Tower (height 1 m to 4 m) and a Ground Reference Plane. A Measurement distance of 3 m is specified between the antenna and the EUT (Equipment Under Test). The EUT is mounted on a Test table (height 1.5 m) which is on a Turntable. The chamber is lined with absorbers. External equipment includes a PC, Receiver / Spectrum Analyzer, and Multi device Controller, all connected to the antenna system.

The diagram illustrates the experimental setup within a Shielding Room. On the left, a PC and a Receiver are connected to a Pulse Limiter. A Ground Reference Plane is established. Two LISN (Line Impedance Stabilization Network) units, LISN 1 and LISN 2, are connected to the AC Mains. The test setup includes a Test table with two EUT/AE (Equipment Under Test/Accessory Equipment) units and a PSU (Power Supply Unit). The distance between the EUT/AE units is 10 cm, and the distance between the EUT/AE unit and the PSU is 10 cm. The Test table is elevated 40 cm from the floor, with Insulation ≤ 0.15 m. The distance from the AC Mains to the Test table is 80 cm, and the distance from the PSU to the Test table is 80 cm.

UTTR-RF-FCCPART15.407-V1.3

4.5.3 For Conducted RF test setup



4.6 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. Only the worst case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Therefore, all final radiated testing was performed with the EUT in orientation.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4.7 DUTY CYCLE

Test Procedure: ANSI C63.10-2020 Clause 12.2.

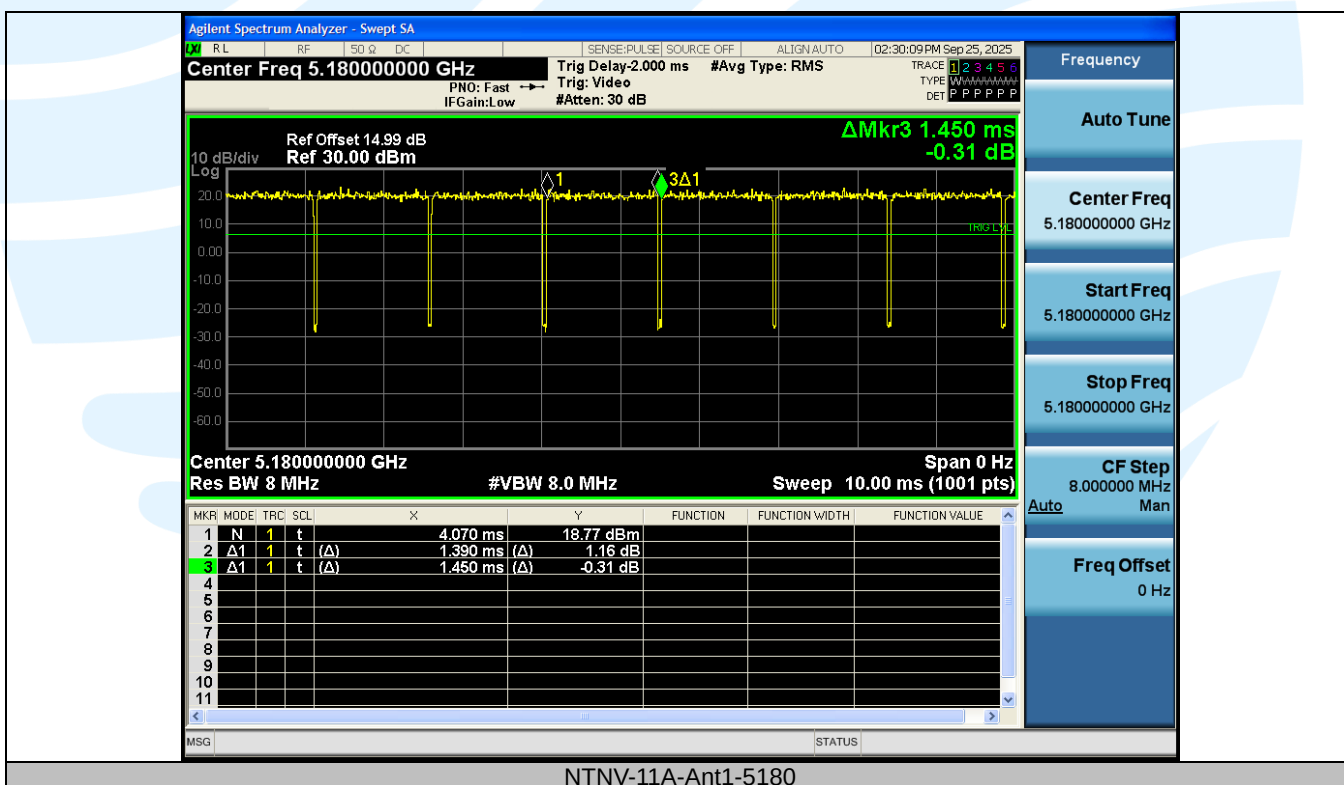
Test Results

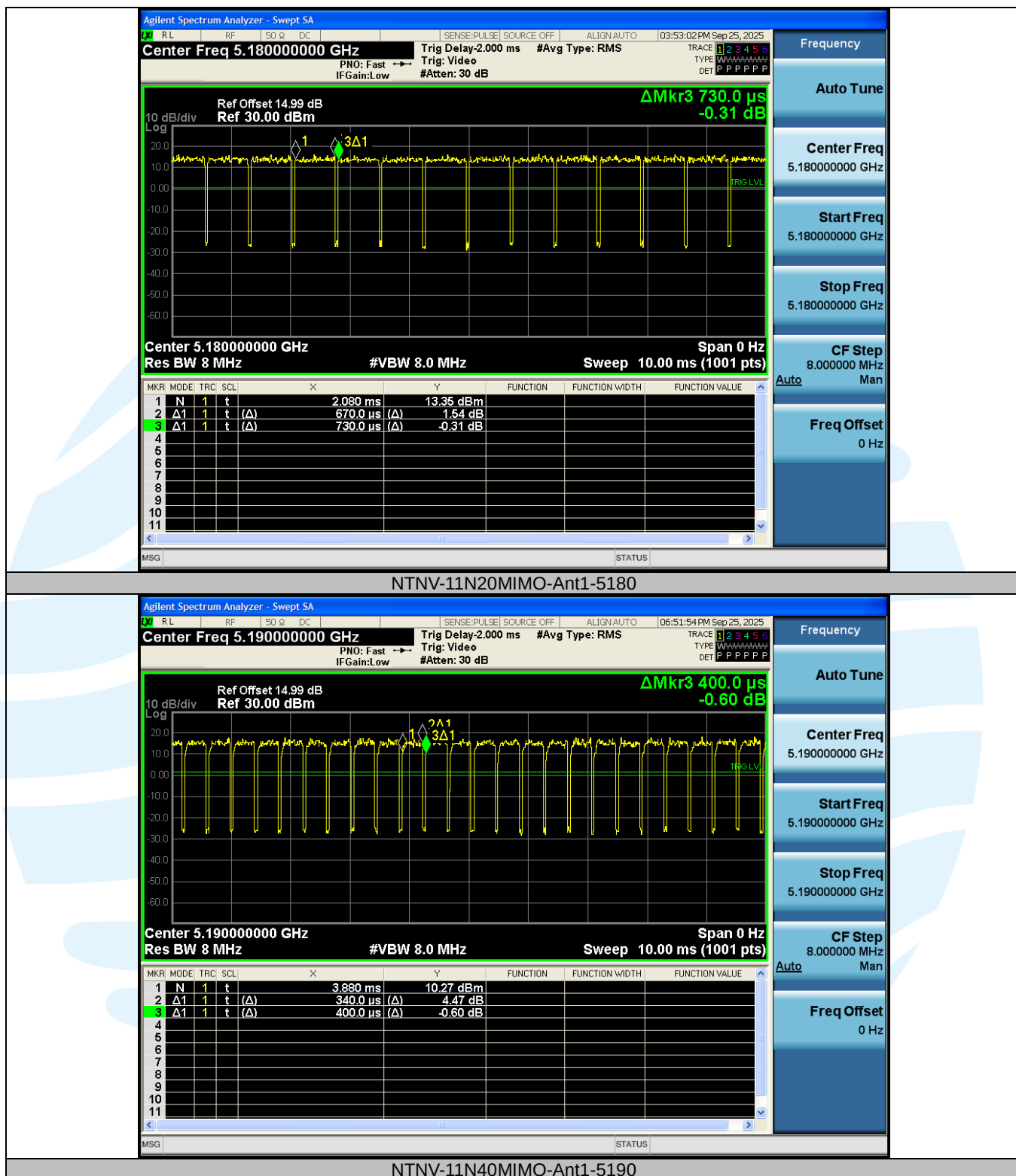
Mode	RU	Data Rates	On Time (msec)	Period (msec)	Duty Cycle (linear)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/T Minimum VBW (kHz)
IEEE 802.11a	N/A	6 Mbps	1.39	1.45	0.96	95.86	0.18	0.72
IEEE 802.11n-HT20	N/A	MCS 16	0.67	0.73	0.92	91.78	0.37	1.49
IEEE 802.11n-HT40	N/A	MCS 16	0.34	0.4	0.85	85.00	0.71	2.94
IEEE 802.11ac-VHT20	N/A	MCS 0	0.48	0.54	0.89	88.89	0.51	2.08
IEEE 802.11ac-VHT40	N/A	MCS 0	0.26	0.32	0.81	81.25	0.90	3.85
IEEE 802.11ac-VHT80	N/A	MCS 0	0.14	0.2	0.70	70.00	1.55	7.14
IEEE 802.11ac-VHT160	N/A	MCS 0	0.1	0.16	0.63	62.50	2.04	10.00
IEEE 802.11ax-HE20	SU	MCS 0	0.42	0.48	0.88	87.50	0.58	2.38
IEEE 802.11ax-HE40	SU	MCS 0	0.26	0.32	0.81	81.25	0.90	3.85
IEEE 802.11ax-HE80	SU	MCS 0	0.18	0.24	0.75	75.00	1.25	5.56
IEEE 802.11ax-HE160	SU	MCS 0	0.14	0.2	0.70	70.00	1.55	7.14

Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$

The test plots as follows



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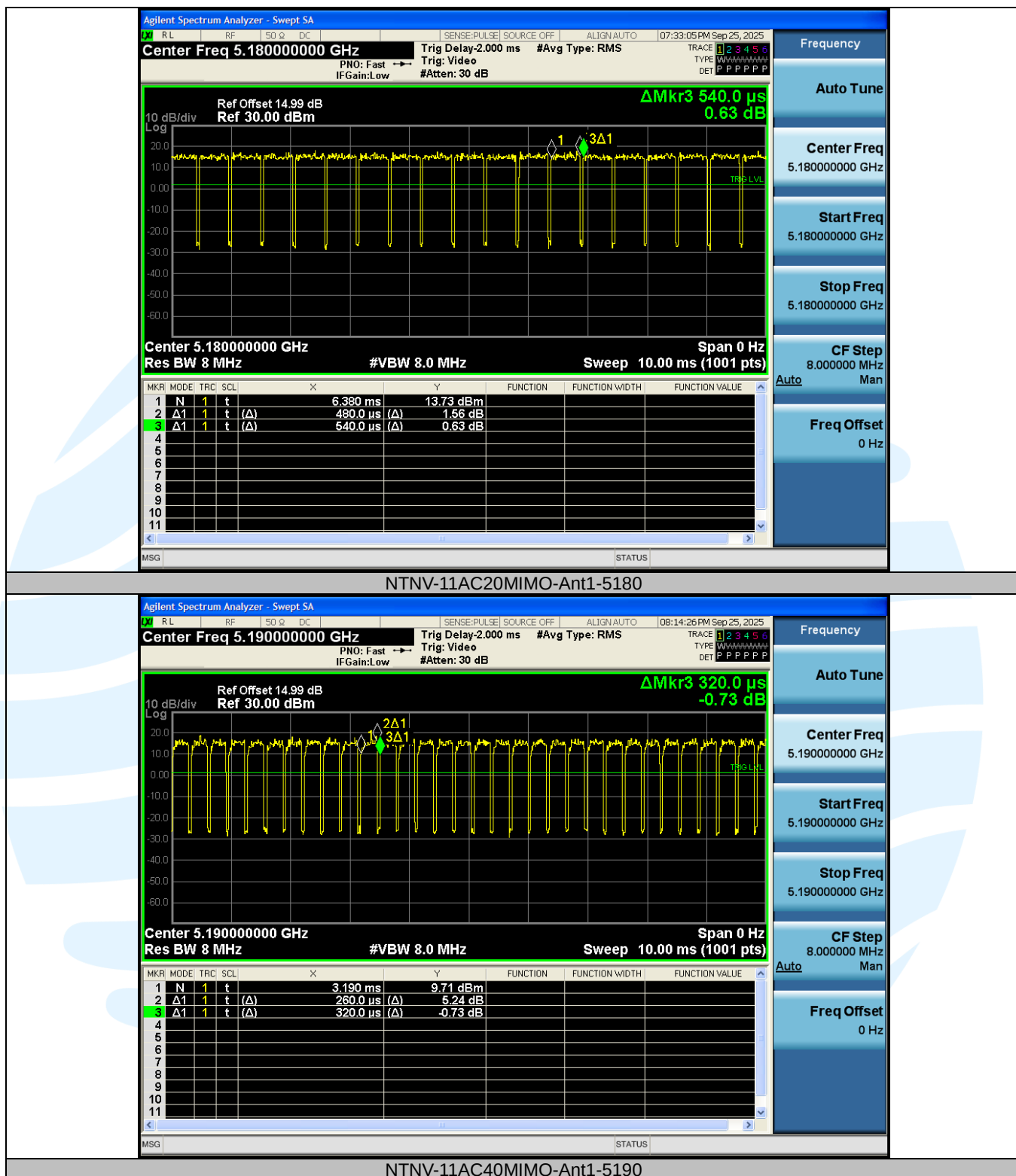
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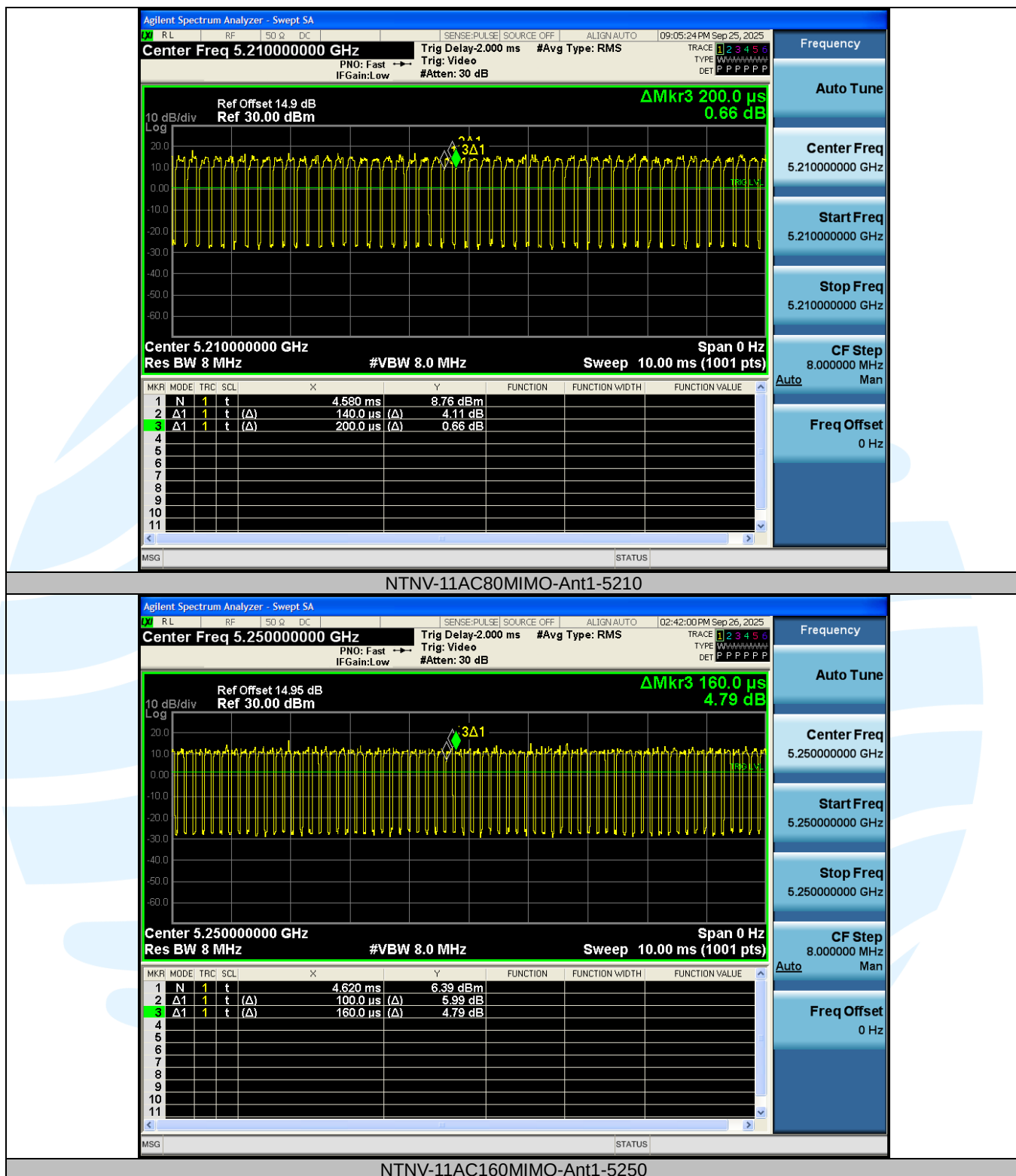
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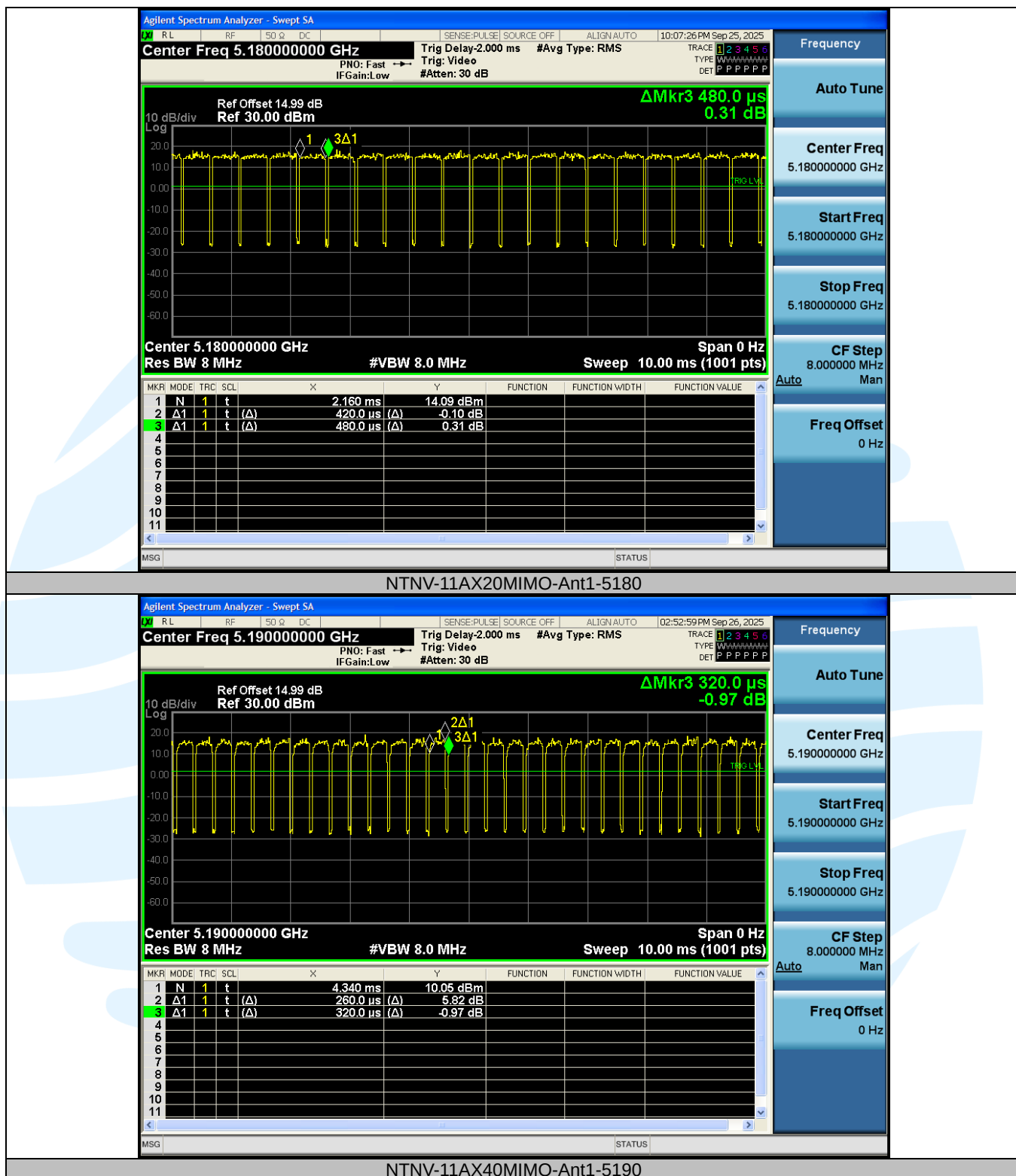
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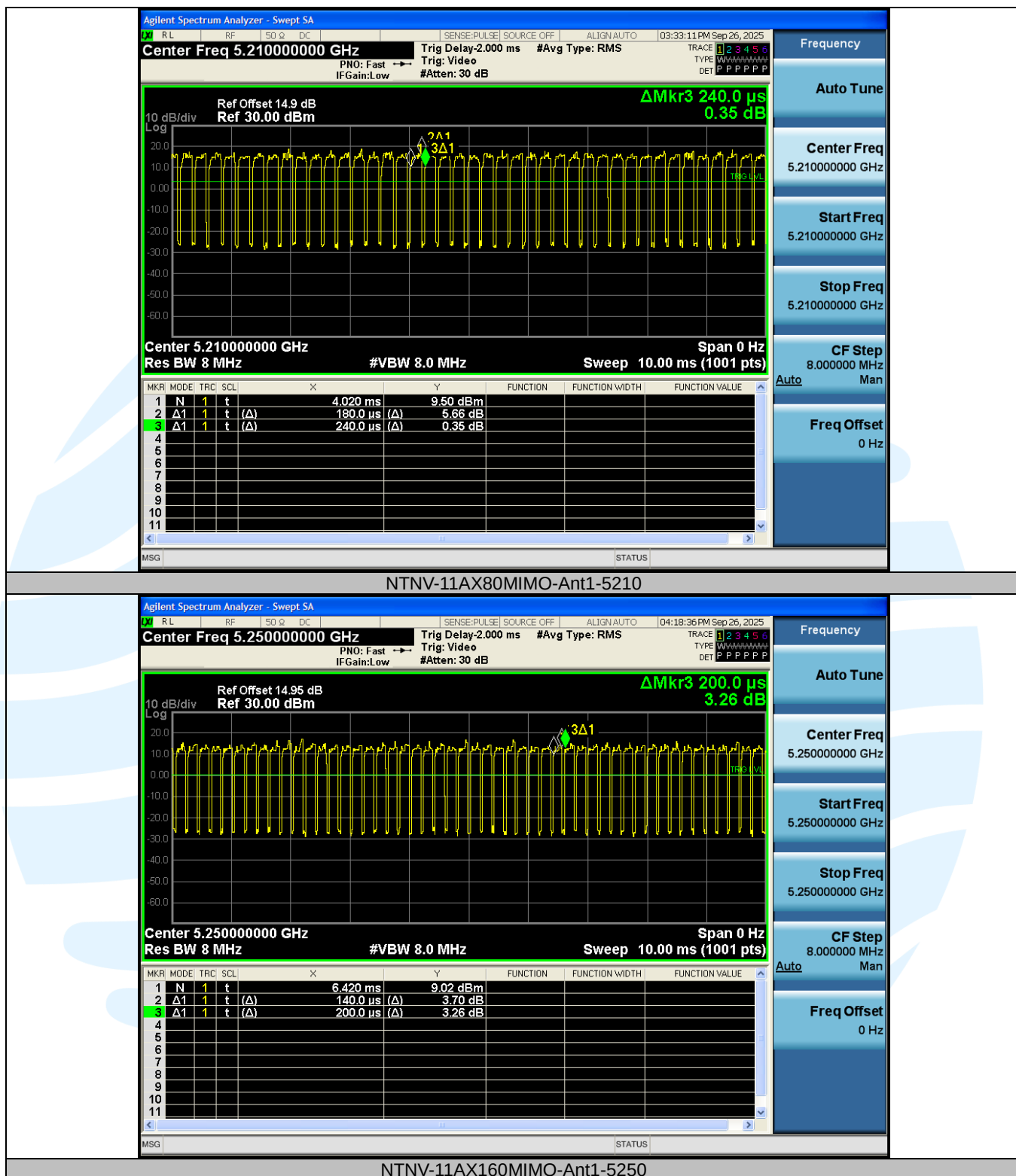
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5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 789033 D02 General UNII Test Procedures New Rules v02r01	Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15, subpart E
5	KDB 905462 D06 802.11 Channel Plans New Rules v02	Operation in U-NII bands -802.11 channel PLAN(\$15.407)
6	KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02	Compliance measurement procedures for Unlicensed –National Information Infrastructure devices operates in the frequency bands 5250 MHz to 5350 MHz and 5470 MHz to 5725 MHz bands incorporating dynamic frequency selection
7	KDB 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band

5.2 ANTENNA REQUIREMENT

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.407(a)(1) (2) requirement: The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi. EUT Antenna: All antennas (3 Antennas) in the interior of the equipment and no consideration of replacement. The transmit signals are correlated with each other, the best case directional gain of the antenna is 7.55 dBi. (See section 5.5).

5.326 DB BANDWIDTH & 99% OCCUPIED BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a) (2)(5)

Test Method: KDB 789033 D02 v02r01 Section C.1

Limit: None; for reporting purposes only.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.

Spectrum analyzer according to the following Settings:

- a) Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

Note:

The automatic bandwidth measurement capability of a spectrum analyzer or an EMI receiver may be employed if it implements the functionality described in the preceding items.

The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Results: Pass

Test Results: Please refer to Appendix A

5.46 DB BANDWIDTH & 99% OCCUPIED BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.407 (e)

Test Method: KDB 789033 D02 v02r01Section C.2

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

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:

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

Occupied Bandwidth

- a) Set center frequency to the nominal EUT channel center frequency.
- b) Set span = 1.5 times to 5.0 times the OBW.
- c) Set RBW = 1% to 5% of the OBW
- d) Set VBW $\geq 3 \times \text{RBW}$
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available).
- g) If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Pass

Test Results: Please refer to Appendix A

5.5 MAXIMUM CONDUCTED OUTPUT POWER & TRANSMIT POWER CONTROL

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3) & (h)(1)

Test Method: KDB 789033 D02 v02r01 Section E.3.a(Method PM)

Limits:

1. For the band 5.15-5.25 GHz.
 - (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
 - (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
 - (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
 - (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.
3. For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII

devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

4. For an indoor access point operating in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. Indoor access points operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 36 dBm.

Test Procedure:

1. Connected the EUT's antenna port to measure device by 10dB attenuator.
2. Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of Tx on burst.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Pass

Test Data:

Directional gain and the maximum output power limit.

Frequency (MHz)	Antenna Gain (dBi)			Directional gain (dBi)		Limit	
	Ant .0	Ant .1	Ant .2	Power	PSD	Power (dBm)	PSD (dBm/MHz or dBm/500kHz)
U-NII-1	2.88	2.88	2.57	7.55	7.55	28.45	15.45
U-NII-2A	2.88	2.88	2.57	7.55	7.55	22.45	9.45
U-NII-2C	2.88	2.88	2.57	7.55	7.55	22.45	9.45
U-NII-3	2.88	2.88	2.57	7.55	7.55	28.45	28.45

Unequal antenna gains, with equal transmit powers. Directional gain is to be computed as follows:
If transmit signals are correlated, then

Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

For U-NII-2A :

IEEE 802.11a/n/ac/ax: the minimum 26 dB emission bandwidth is 21.61 MHz

$$11 \text{ dBm} + 10\log_{10}(21.61) = 24.35 \text{ dBm}$$

$$24.35 \text{ dBm} > 22.45 \text{ dBm}$$

So the 22.45 dBm limit applicable

For U-NII-2C Band:

IEEE 802.11a: the minimum 26 dB emission bandwidth is 21.48 MHz

$$11 \text{ dBm} + 10\log_{10}(21.48) = 24.32 \text{ dBm}$$

$$24.32 \text{ dBm} > 22.45 \text{ dBm}$$

So the 22.45 dBm limit applicable

Maximum output power (TPC Highest Power)

Test Mode	Ant.	Freq. [MHz]	Set Power (Provided by the customer)	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	20.5	20.46	≤30.00	PASS
11A	Ant2	5180	20.5	20.59	≤30.00	PASS
11A	Ant3	5180	20.5	20.46	≤30.00	PASS
11A	Ant1	5200	20.5	20.44	≤30.00	PASS
11A	Ant2	5200	20.5	20.45	≤30.00	PASS
11A	Ant3	5200	20.5	20.45	≤30.00	PASS
11A	Ant1	5240	20.5	20.41	≤30.00	PASS
11A	Ant2	5240	20.5	20.41	≤30.00	PASS
11A	Ant3	5240	20.5	20.41	≤30.00	PASS
11A	Ant1	5745	20.5	20.36	≤30.00	PASS
11A	Ant2	5745	20.5	20.49	≤30.00	PASS
11A	Ant3	5745	20.5	20.36	≤30.00	PASS
11A	Ant1	5785	20.5	20.39	≤30.00	PASS
11A	Ant2	5785	20.5	20.46	≤30.00	PASS
11A	Ant3	5785	20.5	20.39	≤30.00	PASS
11A	Ant1	5825	20.5	20.38	≤30.00	PASS
11A	Ant2	5825	20.5	19.57	≤30.00	PASS
11A	Ant3	5825	20.5	20.39	≤30.00	PASS
11A	Ant1	5260	19	20.41	≤24.00	PASS
11A	Ant2	5260	19	20.38	≤24.00	PASS
11A	Ant3	5260	18	20.49	≤24.00	PASS
11A	Ant1	5280	19	20.43	≤24.00	PASS
11A	Ant2	5280	19	20.23	≤24.00	PASS
11A	Ant3	5280	18	20.51	≤24.00	PASS
11A	Ant1	5320	19	20.46	≤24.00	PASS
11A	Ant2	5320	19	20.12	≤24.00	PASS
11A	Ant3	5320	18	20.18	≤24.00	PASS
11A	Ant1	5500	20	20.57	≤24.00	PASS
11A	Ant2	5500	20	20.41	≤24.00	PASS
11A	Ant3	5500	19.5	20.45	≤24.00	PASS
11A	Ant1	5600	19.5	20.43	≤24.00	PASS
11A	Ant2	5600	20	20.43	≤24.00	PASS
11A	Ant3	5600	19	20.44	≤24.00	PASS
11A	Ant1	5700	20	20.42	≤24.00	PASS
11A	Ant2	5700	20	20.21	≤24.00	PASS
11A	Ant3	5700	18.5	20.57	≤24.00	PASS
11A	Ant1	5720	20	20.40	≤24.00	PASS
11A	Ant2	5720	20	20.19	≤24.00	PASS
11A	Ant3	5720	18	20.40	≤24.00	PASS
11N20MIMO	Ant1	5180	20	19.74	≤28.45	PASS
11N20MIMO	Ant2	5180	20	19.36	≤28.45	PASS
11N20MIMO	Ant3	5180	20	20.45	≤28.45	PASS
11N20MIMO	total	5180	---	24.64	≤28.45	PASS
11N20MIMO	Ant1	5200	20	19.60	≤28.45	PASS
11N20MIMO	Ant2	5200	20	19.49	≤28.45	PASS
11N20MIMO	Ant3	5200	20	20.44	≤28.45	PASS
11N20MIMO	total	5200	---	24.64	≤28.45	PASS
11N20MIMO	Ant1	5240	20	19.84	≤28.45	PASS
11N20MIMO	Ant2	5240	20	19.65	≤28.45	PASS
11N20MIMO	Ant3	5240	20	20.41	≤28.45	PASS
11N20MIMO	total	5240	---	24.75	≤28.45	PASS
11N20MIMO	Ant1	5745	20.5	20.18	≤28.45	PASS
11N20MIMO	Ant2	5745	20.5	19.14	≤28.45	PASS
11N20MIMO	Ant3	5745	20.5	20.47	≤28.45	PASS
11N20MIMO	total	5745	---	24.74	≤28.45	PASS
11N20MIMO	Ant1	5785	20.5	20.14	≤28.45	PASS
11N20MIMO	Ant2	5785	20.5	19.33	≤28.45	PASS
11N20MIMO	Ant3	5785	20.5	20.37	≤28.45	PASS
11N20MIMO	total	5785	---	24.74	≤28.45	PASS
11N20MIMO	Ant1	5825	20.5	19.73	≤28.45	PASS
11N20MIMO	Ant2	5825	20.5	18.36	≤28.45	PASS
11N20MIMO	Ant3	5825	20.5	20.49	≤28.45	PASS
11N20MIMO	total	5825	---	24.38	≤28.45	PASS
11N20MIMO	Ant1	5260	14	14.38	≤22.45	PASS
11N20MIMO	Ant2	5260	14	14.24	≤22.45	PASS
11N20MIMO	Ant3	5260	14	15.34	≤22.45	PASS
11N20MIMO	total	5260	---	19.45	≤22.45	PASS
11N20MIMO	Ant1	5280	14	14.40	≤22.45	PASS
11N20MIMO	Ant2	5280	14	14.21	≤22.45	PASS
11N20MIMO	Ant3	5280	14	15.32	≤22.45	PASS
11N20MIMO	total	5280	---	19.44	≤22.45	PASS

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11N20MIMO	Ant1	5320	14	14.12	≤22.45	PASS
11N20MIMO	Ant2	5320	14	13.82	≤22.45	PASS
11N20MIMO	Ant3	5320	14	14.97	≤22.45	PASS
11N20MIMO	total	5320	---	19.10	≤22.45	PASS
11N20MIMO	Ant1	5500	14	14.53	≤22.45	PASS
11N20MIMO	Ant2	5500	14	13.12	≤22.45	PASS
11N20MIMO	Ant3	5500	14	14.56	≤22.45	PASS
11N20MIMO	total	5500	---	18.89	≤22.45	PASS
11N20MIMO	Ant1	5600	14	15.18	≤22.45	PASS
11N20MIMO	Ant2	5600	14	13.03	≤22.45	PASS
11N20MIMO	Ant3	5600	14	15.23	≤22.45	PASS
11N20MIMO	total	5600	---	19.36	≤22.45	PASS
11N20MIMO	Ant1	5700	14	13.75	≤22.45	PASS
11N20MIMO	Ant2	5700	14	12.97	≤22.45	PASS
11N20MIMO	Ant3	5700	14	15.29	≤22.45	PASS
11N20MIMO	total	5700	---	18.88	≤22.45	PASS
11N20MIMO	Ant1	5720	14	14.08	≤22.45	PASS
11N20MIMO	Ant2	5720	14	13.27	≤22.45	PASS
11N20MIMO	Ant3	5720	14	15.76	≤22.45	PASS
11N20MIMO	total	5720	---	19.27	≤22.45	PASS
11N40MIMO	Ant1	5190	20.5	20.59	≤28.45	PASS
11N40MIMO	Ant2	5190	20.5	20.54	≤28.45	PASS
11N40MIMO	Ant3	5190	20.5	20.60	≤28.45	PASS
11N40MIMO	total	5190	---	25.35	≤28.45	PASS
11N40MIMO	Ant1	5230	20.5	20.50	≤28.45	PASS
11N40MIMO	Ant2	5230	20.5	20.51	≤28.45	PASS
11N40MIMO	Ant3	5230	20.5	20.51	≤28.45	PASS
11N40MIMO	total	5230	---	25.28	≤28.45	PASS
11N40MIMO	Ant1	5755	20.5	20.24	≤28.45	PASS
11N40MIMO	Ant2	5755	20.5	19.36	≤28.45	PASS
11N40MIMO	Ant3	5755	20.5	20.45	≤28.45	PASS
11N40MIMO	total	5755	---	24.81	≤28.45	PASS
11N40MIMO	Ant1	5795	20.5	19.98	≤28.45	PASS
11N40MIMO	Ant2	5795	20.5	19.24	≤28.45	PASS
11N40MIMO	Ant3	5795	20.5	20.49	≤28.45	PASS
11N40MIMO	total	5795	---	24.70	≤28.45	PASS
11N40MIMO	Ant1	5270	16	16.59	≤22.45	PASS
11N40MIMO	Ant2	5270	16	16.37	≤22.45	PASS
11N40MIMO	Ant3	5270	16	17.35	≤22.45	PASS
11N40MIMO	total	5270	---	21.56	≤22.45	PASS
11N40MIMO	Ant1	5310	16	16.40	≤22.45	PASS
11N40MIMO	Ant2	5310	16	16.21	≤22.45	PASS
11N40MIMO	Ant3	5310	16	17.33	≤22.45	PASS
11N40MIMO	total	5310	---	21.45	≤22.45	PASS
11N40MIMO	Ant1	5510	16	16.65	≤22.45	PASS
11N40MIMO	Ant2	5510	16	15.36	≤22.45	PASS
11N40MIMO	Ant3	5510	16	17.02	≤22.45	PASS
11N40MIMO	total	5510	---	21.17	≤22.45	PASS
11N40MIMO	Ant1	5590	16	16.69	≤22.45	PASS
11N40MIMO	Ant2	5590	16	15.41	≤22.45	PASS
11N40MIMO	Ant3	5590	16	17.05	≤22.45	PASS
11N40MIMO	total	5590	---	21.21	≤22.45	PASS
11N40MIMO	Ant1	5670	16	15.99	≤22.45	PASS
11N40MIMO	Ant2	5670	16	15.38	≤22.45	PASS
11N40MIMO	Ant3	5670	16	17.61	≤22.45	PASS
11N40MIMO	total	5670	---	21.20	≤22.45	PASS
11N40MIMO	Ant1	5710	16	16.13	≤22.45	PASS
11N40MIMO	Ant2	5710	16	15.22	≤22.45	PASS
11N40MIMO	Ant3	5710	16	17.72	≤22.45	PASS
11N40MIMO	total	5710	---	21.25	≤22.45	PASS
11AC20MIMO	Ant1	5180	20	20.27	≤28.45	PASS
11AC20MIMO	Ant2	5180	20	20.02	≤28.45	PASS
11AC20MIMO	Ant3	5180	20	20.57	≤28.45	PASS
11AC20MIMO	total	5180	---	25.06	≤28.45	PASS
11AC20MIMO	Ant1	5200	20	20.31	≤28.45	PASS
11AC20MIMO	Ant2	5200	20	20.20	≤28.45	PASS
11AC20MIMO	Ant3	5200	20	20.56	≤28.45	PASS
11AC20MIMO	total	5200	---	25.13	≤28.45	PASS
11AC20MIMO	Ant1	5240	20	20.36	≤28.45	PASS
11AC20MIMO	Ant2	5240	20	20.32	≤28.45	PASS
11AC20MIMO	Ant3	5240	20	20.53	≤28.45	PASS
11AC20MIMO	total	5240	---	25.18	≤28.45	PASS
11AC20MIMO	Ant1	5745	20.5	20.15	≤28.45	PASS
11AC20MIMO	Ant2	5745	20.5	19.26	≤28.45	PASS
11AC20MIMO	Ant3	5745	20.5	20.48	≤28.45	PASS

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UTTR-RF-FCCPART15.407-V1.3

11AC20MIMO	total	5745	---	24.76	≤28.45	PASS
11AC20MIMO	Ant1	5785	20.5	20.21	≤28.45	PASS
11AC20MIMO	Ant2	5785	20.5	19.36	≤28.45	PASS
11AC20MIMO	Ant3	5785	20.5	20.55	≤28.45	PASS
11AC20MIMO	total	5785	---	24.84	≤28.45	PASS
11AC20MIMO	Ant1	5825	20.5	19.84	≤28.45	PASS
11AC20MIMO	Ant2	5825	20.5	18.36	≤28.45	PASS
11AC20MIMO	Ant3	5825	20.5	20.50	≤28.45	PASS
11AC20MIMO	total	5825	---	24.43	≤28.45	PASS
11AC20MIMO	Ant1	5260	14	14.76	≤22.45	PASS
11AC20MIMO	Ant2	5260	14	14.57	≤22.45	PASS
11AC20MIMO	Ant3	5260	14	15.57	≤22.45	PASS
11AC20MIMO	total	5260	---	19.76	≤22.45	PASS
11AC20MIMO	Ant1	5280	14	14.78	≤22.45	PASS
11AC20MIMO	Ant2	5280	14	14.39	≤22.45	PASS
11AC20MIMO	Ant3	5280	14	15.56	≤22.45	PASS
11AC20MIMO	total	5280	---	19.71	≤22.45	PASS
11AC20MIMO	Ant1	5320	14	14.40	≤22.45	PASS
11AC20MIMO	Ant2	5320	14	14.13	≤22.45	PASS
11AC20MIMO	Ant3	5320	14	15.25	≤22.45	PASS
11AC20MIMO	total	5320	---	19.39	≤22.45	PASS
11AC20MIMO	Ant1	5500	14	14.67	≤22.45	PASS
11AC20MIMO	Ant2	5500	14	13.30	≤22.45	PASS
11AC20MIMO	Ant3	5500	14	14.86	≤22.45	PASS
11AC20MIMO	total	5500	---	19.10	≤22.45	PASS
11AC20MIMO	Ant1	5600	14	14.96	≤22.45	PASS
11AC20MIMO	Ant2	5600	14	13.56	≤22.45	PASS
11AC20MIMO	Ant3	5600	14	15.24	≤22.45	PASS
11AC20MIMO	total	5600	---	19.42	≤22.45	PASS
11AC20MIMO	Ant1	5700	14	14.02	≤22.45	PASS
11AC20MIMO	Ant2	5700	14	13.08	≤22.45	PASS
11AC20MIMO	Ant3	5700	14	15.57	≤22.45	PASS
11AC20MIMO	total	5700	---	19.12	≤22.45	PASS
11AC20MIMO	Ant1	5720	14	14.47	≤22.45	PASS
11AC20MIMO	Ant2	5720	14	13.24	≤22.45	PASS
11AC20MIMO	Ant3	5720	14	15.84	≤22.45	PASS
11AC20MIMO	total	5720	---	19.42	≤22.45	PASS
11AC40MIMO	Ant1	5190	20.5	20.62	≤28.45	PASS
11AC40MIMO	Ant2	5190	20.5	20.60	≤28.45	PASS
11AC40MIMO	Ant3	5190	20.5	20.65	≤28.45	PASS
11AC40MIMO	total	5190	---	25.39	≤28.45	PASS
11AC40MIMO	Ant1	5230	20.5	20.59	≤28.45	PASS
11AC40MIMO	Ant2	5230	20.5	20.59	≤28.45	PASS
11AC40MIMO	Ant3	5230	20.5	20.59	≤28.45	PASS
11AC40MIMO	total	5230	---	25.36	≤28.45	PASS
11AC40MIMO	Ant1	5755	20.5	20.22	≤28.45	PASS
11AC40MIMO	Ant2	5755	20.5	19.39	≤28.45	PASS
11AC40MIMO	Ant3	5755	20.5	20.53	≤28.45	PASS
11AC40MIMO	total	5755	---	24.84	≤28.45	PASS
11AC40MIMO	Ant1	5795	20.5	19.98	≤28.45	PASS
11AC40MIMO	Ant2	5795	20.5	19.18	≤28.45	PASS
11AC40MIMO	Ant3	5795	20.5	20.57	≤28.45	PASS
11AC40MIMO	total	5795	---	24.72	≤28.45	PASS
11AC40MIMO	Ant1	5270	16	16.77	≤22.45	PASS
11AC40MIMO	Ant2	5270	16	16.29	≤22.45	PASS
11AC40MIMO	Ant3	5270	16	17.46	≤22.45	PASS
11AC40MIMO	total	5270	---	21.64	≤22.45	PASS
11AC40MIMO	Ant1	5310	16	16.57	≤22.45	PASS
11AC40MIMO	Ant2	5310	16	16.15	≤22.45	PASS
11AC40MIMO	Ant3	5310	16	17.31	≤22.45	PASS
11AC40MIMO	total	5310	---	21.47	≤22.45	PASS
11AC40MIMO	Ant1	5510	16	16.68	≤22.45	PASS
11AC40MIMO	Ant2	5510	16	15.30	≤22.45	PASS
11AC40MIMO	Ant3	5510	16	16.94	≤22.45	PASS
11AC40MIMO	total	5510	---	21.14	≤22.45	PASS
11AC40MIMO	Ant1	5590	16	16.83	≤22.45	PASS
11AC40MIMO	Ant2	5590	16	15.39	≤22.45	PASS
11AC40MIMO	Ant3	5590	16	17.07	≤22.45	PASS
11AC40MIMO	total	5590	---	21.26	≤22.45	PASS
11AC40MIMO	Ant1	5670	16	16.13	≤22.45	PASS
11AC40MIMO	Ant2	5670	16	15.31	≤22.45	PASS
11AC40MIMO	Ant3	5670	16	17.57	≤22.45	PASS
11AC40MIMO	total	5670	---	21.21	≤22.45	PASS
11AC40MIMO	Ant1	5710	16	16.20	≤22.45	PASS
11AC40MIMO	Ant2	5710	16	15.29	≤22.45	PASS

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UTTR-RF-FCCPART15.407-V1.3

11AC40MIMO	Ant3	5710	16	17.69	≤22.45	PASS
11AC40MIMO	total	5710	---	21.28	≤22.45	PASS
11AC80MIMO	Ant1	5210	20.5	20.65	≤28.45	PASS
11AC80MIMO	Ant2	5210	20.5	20.37	≤28.45	PASS
11AC80MIMO	Ant3	5210	20.5	20.76	≤28.45	PASS
11AC80MIMO	total	5210	---	25.37	≤28.45	PASS
11AC80MIMO	Ant1	5775	20.5	19.85	≤28.45	PASS
11AC80MIMO	Ant2	5775	20.5	19.02	≤28.45	PASS
11AC80MIMO	Ant3	5775	20.5	20.71	≤28.45	PASS
11AC80MIMO	total	5775	---	24.69	≤28.45	PASS
11AC80MIMO	Ant1	5290	17	17.30	≤22.45	PASS
11AC80MIMO	Ant2	5290	17	16.85	≤22.45	PASS
11AC80MIMO	Ant3	5290	17	17.92	≤22.45	PASS
11AC80MIMO	total	5290	---	22.15	≤22.45	PASS
11AC80MIMO	Ant1	5530	17	17.33	≤22.45	PASS
11AC80MIMO	Ant2	5530	17	15.91	≤22.45	PASS
11AC80MIMO	Ant3	5530	17	17.52	≤22.45	PASS
11AC80MIMO	total	5530	---	21.75	≤22.45	PASS
11AC80MIMO	Ant1	5610	17	17.53	≤22.45	PASS
11AC80MIMO	Ant2	5610	17	15.85	≤22.45	PASS
11AC80MIMO	Ant3	5610	17	17.64	≤22.45	PASS
11AC80MIMO	total	5610	---	21.85	≤22.45	PASS
11AC80MIMO	Ant1	5690	17	16.86	≤22.45	PASS
11AC80MIMO	Ant2	5690	17	15.88	≤22.45	PASS
11AC80MIMO	Ant3	5690	17	18.23	≤22.45	PASS
11AC80MIMO	total	5690	---	21.87	≤22.45	PASS
11AC160MIMO	Ant1	5250	17	15.65	≤22.45	PASS
11AC160MIMO	Ant2	5250	17	15.19	≤22.45	PASS
11AC160MIMO	Ant3	5250	17	16.31	≤22.45	PASS
11AC160MIMO	total	5250	---	20.51	≤22.45	PASS
11AC160MIMO	Ant1	5570	18	16.79	≤22.45	PASS
11AC160MIMO	Ant2	5570	18	15.49	≤22.45	PASS
11AC160MIMO	Ant3	5570	18	16.96	≤22.45	PASS
11AC160MIMO	total	5570	---	21.23	≤22.45	PASS
11AX20MIMO	Ant1	5180	20.5	20.60	≤28.45	PASS
11AX20MIMO	Ant2	5180	20.5	20.60	≤28.45	PASS
11AX20MIMO	Ant3	5180	20.5	20.61	≤28.45	PASS
11AX20MIMO	total	5180	---	25.37	≤28.45	PASS
11AX20MIMO	Ant1	5200	20.5	20.59	≤28.45	PASS
11AX20MIMO	Ant2	5200	20.5	20.59	≤28.45	PASS
11AX20MIMO	Ant3	5200	20.5	20.59	≤28.45	PASS
11AX20MIMO	total	5200	---	25.36	≤28.45	PASS
11AX20MIMO	Ant1	5240	20.5	20.56	≤28.45	PASS
11AX20MIMO	Ant2	5240	20.5	20.56	≤28.45	PASS
11AX20MIMO	Ant3	5240	20.5	20.56	≤28.45	PASS
11AX20MIMO	total	5240	---	25.33	≤28.45	PASS
11AX20MIMO	Ant1	5745	20.5	20.33	≤28.45	PASS
11AX20MIMO	Ant2	5745	20.5	19.48	≤28.45	PASS
11AX20MIMO	Ant3	5745	20.5	20.51	≤28.45	PASS
11AX20MIMO	total	5745	---	24.90	≤28.45	PASS
11AX20MIMO	Ant1	5785	20.5	20.29	≤28.45	PASS
11AX20MIMO	Ant2	5785	20.5	19.51	≤28.45	PASS
11AX20MIMO	Ant3	5785	20.5	20.54	≤28.45	PASS
11AX20MIMO	total	5785	---	24.91	≤28.45	PASS
11AX20MIMO	Ant1	5825	20.5	20.07	≤28.45	PASS
11AX20MIMO	Ant2	5825	20.5	18.60	≤28.45	PASS
11AX20MIMO	Ant3	5825	20.5	20.53	≤28.45	PASS
11AX20MIMO	total	5825	---	24.58	≤28.45	PASS
11AX20MIMO	Ant1	5260	14	15.15	≤22.45	PASS
11AX20MIMO	Ant2	5260	14	14.86	≤22.45	PASS
11AX20MIMO	Ant3	5260	14	16.00	≤22.45	PASS
11AX20MIMO	total	5260	---	20.14	≤22.45	PASS
11AX20MIMO	Ant1	5280	14	15.14	≤22.45	PASS
11AX20MIMO	Ant2	5280	14	14.76	≤22.45	PASS
11AX20MIMO	Ant3	5280	14	15.95	≤22.45	PASS
11AX20MIMO	total	5280	---	20.08	≤22.45	PASS
11AX20MIMO	Ant1	5320	14	14.80	≤22.45	PASS
11AX20MIMO	Ant2	5320	14	14.40	≤22.45	PASS
11AX20MIMO	Ant3	5320	14	15.60	≤22.45	PASS
11AX20MIMO	total	5320	---	19.73	≤22.45	PASS
11AX20MIMO	Ant1	5500	14	14.98	≤22.45	PASS
11AX20MIMO	Ant2	5500	14	13.74	≤22.45	PASS
11AX20MIMO	Ant3	5500	14	15.07	≤22.45	PASS
11AX20MIMO	total	5500	---	19.41	≤22.45	PASS
11AX20MIMO	Ant1	5600	14	15.39	≤22.45	PASS

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UTTR-RF-FCCPART15.407-V1.3

11AX20MIMO	Ant2	5600	14	13.88	≤22.45	PASS
11AX20MIMO	Ant3	5600	14	15.51	≤22.45	PASS
11AX20MIMO	total	5600	---	19.76	≤22.45	PASS
11AX20MIMO	Ant1	5700	14	17.30	≤22.45	PASS
11AX20MIMO	Ant2	5700	14	13.56	≤22.45	PASS
11AX20MIMO	Ant3	5700	14	15.87	≤22.45	PASS
11AX20MIMO	total	5700	---	20.61	≤22.45	PASS
11AX20MIMO	Ant1	5720	14	14.75	≤22.45	PASS
11AX20MIMO	Ant2	5720	14	13.67	≤22.45	PASS
11AX20MIMO	Ant3	5720	14	16.08	≤22.45	PASS
11AX20MIMO	total	5720	---	19.72	≤22.45	PASS
11AX40MIMO	Ant1	5190	19	19.95	≤28.45	PASS
11AX40MIMO	Ant2	5190	19	19.48	≤28.45	PASS
11AX40MIMO	Ant3	5190	19	20.51	≤28.45	PASS
11AX40MIMO	total	5190	---	24.77	≤28.45	PASS
11AX40MIMO	Ant1	5230	20.5	20.63	≤28.45	PASS
11AX40MIMO	Ant2	5230	20.5	20.60	≤28.45	PASS
11AX40MIMO	Ant3	5230	20.5	20.58	≤28.45	PASS
11AX40MIMO	total	5230	---	25.37	≤28.45	PASS
11AX40MIMO	Ant1	5755	20.5	20.44	≤28.45	PASS
11AX40MIMO	Ant2	5755	20.5	19.66	≤28.45	PASS
11AX40MIMO	Ant3	5755	20.5	20.51	≤28.45	PASS
11AX40MIMO	total	5755	---	24.99	≤28.45	PASS
11AX40MIMO	Ant1	5795	20.5	20.17	≤28.45	PASS
11AX40MIMO	Ant2	5795	20.5	19.37	≤28.45	PASS
11AX40MIMO	Ant3	5795	20.5	20.55	≤28.45	PASS
11AX40MIMO	total	5795	---	24.83	≤28.45	PASS
11AX40MIMO	Ant1	5270	16	17.15	≤22.45	PASS
11AX40MIMO	Ant2	5270	16	16.70	≤22.45	PASS
11AX40MIMO	Ant3	5270	16	17.80	≤22.45	PASS
11AX40MIMO	total	5270	---	22.01	≤22.45	PASS
11AX40MIMO	Ant1	5310	16	16.99	≤22.45	PASS
11AX40MIMO	Ant2	5310	16	16.57	≤22.45	PASS
11AX40MIMO	Ant3	5310	16	17.71	≤22.45	PASS
11AX40MIMO	total	5310	---	21.89	≤22.45	PASS
11AX40MIMO	Ant1	5510	16	16.84	≤22.45	PASS
11AX40MIMO	Ant2	5510	16	15.48	≤22.45	PASS
11AX40MIMO	Ant3	5510	16	16.99	≤22.45	PASS
11AX40MIMO	total	5510	---	21.26	≤22.45	PASS
11AX40MIMO	Ant1	5590	16	16.95	≤22.45	PASS
11AX40MIMO	Ant2	5590	16	15.50	≤22.45	PASS
11AX40MIMO	Ant3	5590	16	17.16	≤22.45	PASS
11AX40MIMO	total	5590	---	21.37	≤22.45	PASS
11AX40MIMO	Ant1	5670	16	16.19	≤22.45	PASS
11AX40MIMO	Ant2	5670	16	15.41	≤22.45	PASS
11AX40MIMO	Ant3	5670	16	17.57	≤22.45	PASS
11AX40MIMO	total	5670	---	21.25	≤22.45	PASS
11AX40MIMO	Ant1	5710	16	16.25	≤22.45	PASS
11AX40MIMO	Ant2	5710	16	15.41	≤22.45	PASS
11AX40MIMO	Ant3	5710	16	17.79	≤22.45	PASS
11AX40MIMO	total	5710	---	21.37	≤22.45	PASS
11AX80MIMO	Ant1	5210	19	20.11	≤28.45	PASS
11AX80MIMO	Ant2	5210	19	19.77	≤28.45	PASS
11AX80MIMO	Ant3	5210	19	20.79	≤28.45	PASS
11AX80MIMO	total	5210	---	25.02	≤28.45	PASS
11AX80MIMO	Ant1	5775	20.5	19.90	≤28.45	PASS
11AX80MIMO	Ant2	5775	20.5	19.21	≤28.45	PASS
11AX80MIMO	Ant3	5775	20.5	20.49	≤28.45	PASS
11AX80MIMO	total	5775	---	24.67	≤28.45	PASS
11AX80MIMO	Ant1	5290	16	17.20	≤22.45	PASS
11AX80MIMO	Ant2	5290	16	16.72	≤22.45	PASS
11AX80MIMO	Ant3	5290	16	17.88	≤22.45	PASS
11AX80MIMO	total	5290	---	22.06	≤22.45	PASS
11AX80MIMO	Ant1	5530	17	16.98	≤22.45	PASS
11AX80MIMO	Ant2	5530	17	15.65	≤22.45	PASS
11AX80MIMO	Ant3	5530	17	17.20	≤22.45	PASS
11AX80MIMO	total	5530	---	21.43	≤22.45	PASS
11AX80MIMO	Ant1	5610	17	17.10	≤22.45	PASS
11AX80MIMO	Ant2	5610	17	15.63	≤22.45	PASS
11AX80MIMO	Ant3	5610	17	17.27	≤22.45	PASS
11AX80MIMO	total	5610	---	21.50	≤22.45	PASS
11AX80MIMO	Ant1	5690	17	16.45	≤22.45	PASS
11AX80MIMO	Ant2	5690	17	15.67	≤22.45	PASS
11AX80MIMO	Ant3	5690	17	17.95	≤22.45	PASS
11AX80MIMO	total	5690	---	21.57	≤22.45	PASS

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UTTR-RF-FCCPART15.407-V1.3

11AX160MIMO	Ant1	5250	19	18.70	≤22.45	PASS
11AX160MIMO	Ant2	5250	19	18.26	≤22.45	PASS
11AX160MIMO	Ant3	5250	19	19.38	≤22.45	PASS
11AX160MIMO	total	5250	---	23.58	≤22.45	PASS
11AX160MIMO	Ant1	5570	18	17.19	≤22.45	PASS
11AX160MIMO	Ant2	5570	18	15.85	≤22.45	PASS
11AX160MIMO	Ant3	5570	18	17.39	≤22.45	PASS
11AX160MIMO	total	5570	---	21.63	≤22.45	PASS

Maximum output power (TPC Lowest Power)

Test Mode	Ant.	Freq. [MHz]	Set Power (Provided by the customer)	Result [dBm]	E.I.R.P Result [dBm]	Limit E.I.R.P [dBm]	Verdict
11A	Ant1	5260	11.5	14.06	16.94	24	PASS
11A	Ant2	5260	11.5	14.33	17.21	24	PASS
11A	Ant3	5260	11	14.08	16.65	24	PASS
11A	Ant1	5280	11.5	14.10	16.98	24	PASS
11A	Ant2	5280	11.5	14.27	17.15	24	PASS
11A	Ant3	5280	11	14.09	16.66	24	PASS
11A	Ant1	5320	12	14.09	16.97	24	PASS
11A	Ant2	5320	12	14.01	16.89	24	PASS
11A	Ant3	5320	11	14.29	16.86	24	PASS
11A	Ant1	5500	12.5	14.24	17.12	24	PASS
11A	Ant2	5500	12.5	13.61	16.49	24	PASS
11A	Ant3	5500	12	13.96	16.53	24	PASS
11A	Ant1	5600	12	14.06	16.94	24	PASS
11A	Ant2	5600	12	13.72	16.60	24	PASS
11A	Ant3	5600	12	14.39	16.96	24	PASS
11A	Ant1	5700	12.5	13.67	16.55	24	PASS
11A	Ant2	5700	12.5	14.06	16.94	24	PASS
11A	Ant3	5700	11	13.73	16.30	24	PASS
11A	Ant1	5720	12.5	13.95	16.83	24	PASS
11A	Ant2	5720	12.5	13.30	16.18	24	PASS
11A	Ant3	5720	11	14.04	16.61	24	PASS
11N20MIMO	Ant1	5260	7.5	8.78	11.66	24	PASS
11N20MIMO	Ant2	5260	7.5	8.27	11.15	24	PASS
11N20MIMO	Ant3	5260	7.5	9.23	11.80	24	PASS
11N20MIMO	total	5260	---	13.55	21.10	24	PASS
11N20MIMO	Ant1	5280	7.5	8.78	11.66	24	PASS
11N20MIMO	Ant2	5280	7.5	8.22	11.10	24	PASS
11N20MIMO	Ant3	5280	7.5	9.35	11.92	24	PASS
11N20MIMO	total	5280	---	13.58	21.13	24	PASS
11N20MIMO	Ant1	5320	7.5	8.22	11.10	24	PASS
11N20MIMO	Ant2	5320	7.5	7.55	10.43	24	PASS
11N20MIMO	Ant3	5320	7.5	8.78	11.35	24	PASS
11N20MIMO	total	5320	---	12.98	20.53	24	PASS
11N20MIMO	Ant1	5500	7.5	7.88	10.76	24	PASS
11N20MIMO	Ant2	5500	7.5	6.65	9.53	24	PASS
11N20MIMO	Ant3	5500	7.5	8.14	10.71	24	PASS
11N20MIMO	total	5500	---	12.37	19.92	24	PASS
11N20MIMO	Ant1	5600	7.5	8.11	10.99	24	PASS
11N20MIMO	Ant2	5600	7.5	6.99	9.87	24	PASS
11N20MIMO	Ant3	5600	7.5	8.58	11.15	24	PASS
11N20MIMO	total	5600	---	12.71	20.26	24	PASS
11N20MIMO	Ant1	5700	7.5	7.32	10.20	24	PASS
11N20MIMO	Ant2	5700	7.5	6.75	9.63	24	PASS
11N20MIMO	Ant3	5700	7.5	8.33	10.90	24	PASS
11N20MIMO	total	5700	---	12.29	19.84	24	PASS
11N20MIMO	Ant1	5720	7.5	7.67	10.55	24	PASS
11N20MIMO	Ant2	5720	7.5	7.17	10.05	24	PASS
11N20MIMO	Ant3	5720	7.5	8.88	11.45	24	PASS
11N20MIMO	total	5720	---	12.74	20.29	24	PASS
11N40MIMO	Ant1	5270	9.5	10.74	13.62	24	PASS
11N40MIMO	Ant2	5270	9.5	10.31	13.19	24	PASS
11N40MIMO	Ant3	5270	9.5	11.34	13.91	24	PASS
11N40MIMO	total	5270	---	15.59	23.14	24	PASS
11N40MIMO	Ant1	5310	9.5	10.6	13.48	24	PASS
11N40MIMO	Ant2	5310	9.5	9.97	12.85	24	PASS
11N40MIMO	Ant3	5310	9.5	11.11	13.68	24	PASS
11N40MIMO	total	5310	---	15.36	22.91	24	PASS
11N40MIMO	Ant1	5510	9.5	10.45	13.33	24	PASS
11N40MIMO	Ant2	5510	9.5	9.2	12.08	24	PASS
11N40MIMO	Ant3	5510	9.5	10.59	13.16	24	PASS
11N40MIMO	total	5510	---	14.89	22.44	24	PASS
11N40MIMO	Ant1	5590	9.5	10.59	13.47	24	PASS

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UTTR-RF-FCCPART15.407-V1.3

11N40MIMO	Ant2	5590	9.5	9.23	12.11	24	PASS
11N40MIMO	Ant3	5590	9.5	10.73	13.30	24	PASS
11N40MIMO	total	5590	---	15.01	22.56	24	PASS
11N40MIMO	Ant1	5670	9.5	9.9	12.78	24	PASS
11N40MIMO	Ant2	5670	9.5	9.39	12.27	24	PASS
11N40MIMO	Ant3	5670	9.5	11.32	13.89	24	PASS
11N40MIMO	total	5670	---	15.05	22.60	24	PASS
11N40MIMO	Ant1	5710	9.5	9.98	12.86	24	PASS
11N40MIMO	Ant2	5710	9.5	8.97	11.85	24	PASS
11N40MIMO	Ant3	5710	9.5	11.45	14.02	24	PASS
11N40MIMO	total	5710	---	15.03	22.58	24	PASS
11AC20MIMO	Ant1	5260	7.5	8.77	11.65	24	PASS
11AC20MIMO	Ant2	5260	7.5	9.22	12.10	24	PASS
11AC20MIMO	Ant3	5260	7.5	9.41	11.98	24	PASS
11AC20MIMO	total	5260	---	13.91	21.46	24	PASS
11AC20MIMO	Ant1	5280	7.5	8.8	11.68	24	PASS
11AC20MIMO	Ant2	5280	7.5	8.16	11.04	24	PASS
11AC20MIMO	Ant3	5280	7.5	9.4	11.97	24	PASS
11AC20MIMO	total	5280	---	13.59	21.14	24	PASS
11AC20MIMO	Ant1	5320	7.5	8.32	11.20	24	PASS
11AC20MIMO	Ant2	5320	7.5	7.74	10.62	24	PASS
11AC20MIMO	Ant3	5320	7.5	8.82	11.39	24	PASS
11AC20MIMO	total	5320	---	13.09	20.64	24	PASS
11AC20MIMO	Ant1	5500	7.5	8.17	11.05	24	PASS
11AC20MIMO	Ant2	5500	7.5	6.94	9.82	24	PASS
11AC20MIMO	Ant3	5500	7.5	8.32	10.89	24	PASS
11AC20MIMO	total	5500	---	12.62	20.17	24	PASS
11AC20MIMO	Ant1	5600	7.5	8.24	11.12	24	PASS
11AC20MIMO	Ant2	5600	7.5	6.73	9.61	24	PASS
11AC20MIMO	Ant3	5600	7.5	8.39	10.96	24	PASS
11AC20MIMO	total	5600	---	12.62	20.17	24	PASS
11AC20MIMO	Ant1	5700	7.5	7.45	10.33	24	PASS
11AC20MIMO	Ant2	5700	7.5	6.06	8.94	24	PASS
11AC20MIMO	Ant3	5700	7.5	8.53	11.10	24	PASS
11AC20MIMO	total	5700	---	12.23	19.78	24	PASS
11AC20MIMO	Ant1	5720	7.5	7.79	10.67	24	PASS
11AC20MIMO	Ant2	5720	7.5	6.69	9.57	24	PASS
11AC20MIMO	Ant3	5720	7.5	9.05	11.62	24	PASS
11AC20MIMO	total	5720	---	12.72	20.27	24	PASS
11AC40MIMO	Ant1	5270	10	11.24	14.12	24	PASS
11AC40MIMO	Ant2	5270	10	10.58	13.46	24	PASS
11AC40MIMO	Ant3	5270	10	11.83	14.40	24	PASS
11AC40MIMO	total	5270	---	16.02	23.57	24	PASS
11AC40MIMO	Ant1	5310	10	11.06	13.94	24	PASS
11AC40MIMO	Ant2	5310	10	10.28	13.16	24	PASS
11AC40MIMO	Ant3	5310	10	11.53	14.10	24	PASS
11AC40MIMO	total	5310	---	15.76	23.31	24	PASS
11AC40MIMO	Ant1	5510	9.5	10.48	13.36	24	PASS
11AC40MIMO	Ant2	5510	9.5	9.25	12.13	24	PASS
11AC40MIMO	Ant3	5510	9.5	10.69	13.26	24	PASS
11AC40MIMO	total	5510	---	14.96	22.51	24	PASS
11AC40MIMO	Ant1	5590	9.5	10.5	13.38	24	PASS
11AC40MIMO	Ant2	5590	9.5	9.19	12.07	24	PASS
11AC40MIMO	Ant3	5590	9.5	10.75	13.32	24	PASS
11AC40MIMO	total	5590	---	14.97	22.52	24	PASS
11AC40MIMO	Ant1	5670	9.5	9.85	12.73	24	PASS
11AC40MIMO	Ant2	5670	9.5	9.23	12.11	24	PASS
11AC40MIMO	Ant3	5670	9.5	11.29	13.86	24	PASS
11AC40MIMO	total	5670	---	14.98	22.53	24	PASS
11AC40MIMO	Ant1	5710	9.5	9.94	12.82	24	PASS
11AC40MIMO	Ant2	5710	9.5	9.01	11.89	24	PASS
11AC40MIMO	Ant3	5710	9.5	11.44	14.01	24	PASS
11AC40MIMO	total	5710	---	15.02	22.57	24	PASS
11AC80MIMO	Ant1	5290	11	11.63	14.51	24	PASS
11AC80MIMO	Ant2	5290	11	11.01	13.89	24	PASS
11AC80MIMO	Ant3	5290	11	12.14	14.71	24	PASS
11AC80MIMO	total	5290	---	16.39	23.94	24	PASS
11AC80MIMO	Ant1	5530	10	10.46	13.34	24	PASS
11AC80MIMO	Ant2	5530	10	9.31	12.19	24	PASS
11AC80MIMO	Ant3	5530	10	10.73	13.30	24	PASS
11AC80MIMO	total	5530	---	14.98	22.53	24	PASS
11AC80MIMO	Ant1	5610	10	10.62	13.50	24	PASS
11AC80MIMO	Ant2	5610	10	9.41	12.29	24	PASS
11AC80MIMO	Ant3	5610	10	10.9	13.47	24	PASS
11AC80MIMO	total	5610	---	15.13	22.68	24	PASS

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UTTR-RF-FCCPART15.407-V1.3

11AC80MIMO	Ant1	5690	10	10.09	12.97	24	PASS
11AC80MIMO	Ant2	5690	10	9.11	11.99	24	PASS
11AC80MIMO	Ant3	5690	10	11.53	14.10	24	PASS
11AC80MIMO	total	5690	---	15.13	22.68	24	PASS
11AC160MIMO	Ant1	5250	10	8.68	11.56	24	PASS
11AC160MIMO	Ant2	5250	10	8.25	11.13	24	PASS
11AC160MIMO	Ant3	5250	10	9.29	11.86	24	PASS
11AC160MIMO	total	5250	---	13.53	21.08	24	PASS
11AC160MIMO	Ant1	5570	11.5	10.48	13.36	24	PASS
11AC160MIMO	Ant2	5570	11.5	9.29	12.17	24	PASS
11AC160MIMO	Ant3	5570	11.5	10.8	13.37	24	PASS
11AC160MIMO	total	5570	---	15.01	22.56	24	PASS
11AX20MIMO	Ant1	5260	8	9.56	12.44	24	PASS
11AX20MIMO	Ant2	5260	8	8.91	11.79	24	PASS
11AX20MIMO	Ant3	5260	8	10.12	12.69	24	PASS
11AX20MIMO	total	5260	---	14.33	21.88	24	PASS
11AX20MIMO	Ant1	5280	8	9.56	12.44	24	PASS
11AX20MIMO	Ant2	5280	8	8.93	11.81	24	PASS
11AX20MIMO	Ant3	5280	8	10.14	12.71	24	PASS
11AX20MIMO	total	5280	---	14.34	21.89	24	PASS
11AX20MIMO	Ant1	5320	8	9.06	11.94	24	PASS
11AX20MIMO	Ant2	5320	8	8.54	11.42	24	PASS
11AX20MIMO	Ant3	5320	8	9.72	12.29	24	PASS
11AX20MIMO	total	5320	---	13.90	21.45	24	PASS
11AX20MIMO	Ant1	5500	7.5	8.5	11.38	24	PASS
11AX20MIMO	Ant2	5500	7.5	7.3	10.18	24	PASS
11AX20MIMO	Ant3	5500	7.5	8.64	11.21	24	PASS
11AX20MIMO	total	5500	---	12.96	20.51	24	PASS
11AX20MIMO	Ant1	5600	7.5	8.45	11.33	24	PASS
11AX20MIMO	Ant2	5600	7.5	7.39	10.27	24	PASS
11AX20MIMO	Ant3	5600	7.5	8.89	11.46	24	PASS
11AX20MIMO	total	5600	---	13.06	20.61	24	PASS
11AX20MIMO	Ant1	5700	7.5	7.71	10.59	24	PASS
11AX20MIMO	Ant2	5700	7.5	6.54	9.42	24	PASS
11AX20MIMO	Ant3	5700	7.5	8.72	11.29	24	PASS
11AX20MIMO	total	5700	---	12.52	20.07	24	PASS
11AX20MIMO	Ant1	5720	7.5	8.02	10.90	24	PASS
11AX20MIMO	Ant2	5720	7.5	6.93	9.81	24	PASS
11AX20MIMO	Ant3	5720	7.5	9.27	11.84	24	PASS
11AX20MIMO	total	5720	---	12.95	20.50	24	PASS
11AX40MIMO	Ant1	5270	10	11.54	14.42	24	PASS
11AX40MIMO	Ant2	5270	10	10.99	13.87	24	PASS
11AX40MIMO	Ant3	5270	10	12.11	14.68	24	PASS
11AX40MIMO	total	5270	---	16.34	23.89	24	PASS
11AX40MIMO	Ant1	5310	10	11.29	14.17	24	PASS
11AX40MIMO	Ant2	5310	10	10.65	13.53	24	PASS
11AX40MIMO	Ant3	5310	10	11.77	14.34	24	PASS
11AX40MIMO	total	5310	---	16.03	23.58	24	PASS
11AX40MIMO	Ant1	5510	9	10.23	13.11	24	PASS
11AX40MIMO	Ant2	5510	9	8.89	11.77	24	PASS
11AX40MIMO	Ant3	5510	9	10.37	12.94	24	PASS
11AX40MIMO	total	5510	---	14.65	22.20	24	PASS
11AX40MIMO	Ant1	5590	9	10.32	13.20	24	PASS
11AX40MIMO	Ant2	5590	9	9.23	12.11	24	PASS
11AX40MIMO	Ant3	5590	9	10.59	13.16	24	PASS
11AX40MIMO	total	5590	---	14.86	22.41	24	PASS
11AX40MIMO	Ant1	5670	9	9.62	12.50	24	PASS
11AX40MIMO	Ant2	5670	9	9.17	12.05	24	PASS
11AX40MIMO	Ant3	5670	9	11.06	13.63	24	PASS
11AX40MIMO	total	5670	---	14.80	22.35	24	PASS
11AX40MIMO	Ant1	5710	9	9.77	12.65	24	PASS
11AX40MIMO	Ant2	5710	9	8.64	11.52	24	PASS
11AX40MIMO	Ant3	5710	9	11.23	13.80	24	PASS
11AX40MIMO	total	5710	---	14.78	22.33	24	PASS
11AX80MIMO	Ant1	5290	10.5	11.31	14.19	24	PASS
11AX80MIMO	Ant2	5290	10.5	10.67	13.55	24	PASS
11AX80MIMO	Ant3	5290	10.5	11.84	14.41	24	PASS
11AX80MIMO	total	5290	---	16.07	23.62	24	PASS
11AX80MIMO	Ant1	5530	10	10.28	13.16	24	PASS
11AX80MIMO	Ant2	5530	10	9.21	12.09	24	PASS
11AX80MIMO	Ant3	5530	10	10.64	13.21	24	PASS
11AX80MIMO	total	5530	---	14.86	22.41	24	PASS
11AX80MIMO	Ant1	5610	10	10.75	13.63	24	PASS
11AX80MIMO	Ant2	5610	10	9.41	12.29	24	PASS
11AX80MIMO	Ant3	5610	10	11.03	13.60	24	PASS

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UTTR-RF-FCCPART15.407-V1.3

11AX80MIMO	total	5610	---	15.22	22.77	24	PASS
11AX80MIMO	Ant1	5690	10	10.22	13.10	24	PASS
11AX80MIMO	Ant2	5690	10	9.55	12.43	24	PASS
11AX80MIMO	Ant3	5690	10	11.7	14.27	24	PASS
11AX80MIMO	total	5690	---	15.36	22.91	24	PASS
11AX160MIMO	Ant1	5250	12	11.74	14.62	24	PASS
11AX160MIMO	Ant2	5250	12	11.23	14.11	24	PASS
11AX160MIMO	Ant3	5250	12	11.88	14.45	24	PASS
11AX160MIMO	total	5250	---	16.40	23.95	24	PASS
11AX160MIMO	Ant1	5570	10.5	10.67	13.55	24	PASS
11AX160MIMO	Ant2	5570	10.5	9.59	12.47	24	PASS
11AX160MIMO	Ant3	5570	10.5	11.09	13.66	24	PASS
11AX160MIMO	total	5570	---	15.27	22.82	24	PASS

Note: The test result includes Duty Cycle Factor.

5.6 PEAK POWER SPECTRAL DENSITY

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)

Test Method: KDB 789033 D02 v02r01 Section F

Limits:

1. For the band 5.15-5.25 GHz.
 - (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
 - (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
 - (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
 - (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
4. For an indoor access point operating in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the

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UTTR-RF-FCCPART15.407-V1.3

frequency band of operation must not exceed 36 dBm. Indoor access points operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 36 dBm.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:

1. For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW ≥ 3 RBW, Detector = RMS
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

2. For U-NII-3 band:

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 500 kHz, Set VBW ≥ 3 RBW, Detector = RMS
- Use the peak marker function to determine the maximum power level in any 500 kHz band segment within the fundamental EBW.
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Please refer to Appendix A

Directional gain and the maximum power spectral density limit.

Frequency (MHz)	Antenna Gain (dBi)			Directional gain (dBi)		Limit	
	Ant .0	Ant .1	Ant .2	Power	PSD	Power (dBm)	PSD (dBm/MHz or dBm/500kHz)
U-NII-1	2.88	2.88	2.57	7.55	7.55	28.45	15.45
U-NII-2A	2.88	2.88	2.57	7.55	7.55	22.45	9.45
U-NII-2C	2.88	2.88	2.57	7.55	7.55	22.45	9.45
U-NII-3	2.88	2.88	2.57	7.55	7.55	28.45	28.45

Unequal antenna gains, with equal transmit powers. Directional gain is to be computed as follows:

If transmit signals are correlated, then

Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

5.7 RADIATED EMISSIONS AND BAND EDGE MEASUREMENT

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6)
FCC 47 CFR Part 15 Subpart C Section 15.209/205

Test Method: KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6

Receiver Setup:

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

Limits:

1. Limits of Radiated Emission and Band edge Measurement

Radiated emissions that fall in the restricted bands must comply with the general emissions limits in 15.209(a) as below table. Other emissions shall be at least 20 dB below the highest level of the desired power.

Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	--	--	300
0.490 MHz-1.705 MHz	24000/F(kHz)	--	--	30
1.705 MHz-30 MHz	30	--	--	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are 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 20 dB under any condition of modulation.

2. Limits of Unwanted Emission Out of the Restricted Bands

Applicable To	Limit	
789033 D02 General U-NII Test Procedures New Rules v01r04	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
FCC Part 15.407 (b)(1)	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
FCC Part 15.407 (b)(2)	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
FCC Part 15.407 (b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
FCC Part 15.407 (b)(4)	27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;	PK: 68.2 (dBμV/m)
	15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;	
	10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges;	
	-27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.	

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Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

1. The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
6. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Remark:

- a) The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- b) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- c) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
- d) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle $\geq 98 \%$) or $\geq 1/T$ (duty cycle is < 98%) for Average detection (AV) at frequency above 1 GHz.
- e) All modes of operation were investigated and the worst-case emissions are reported.

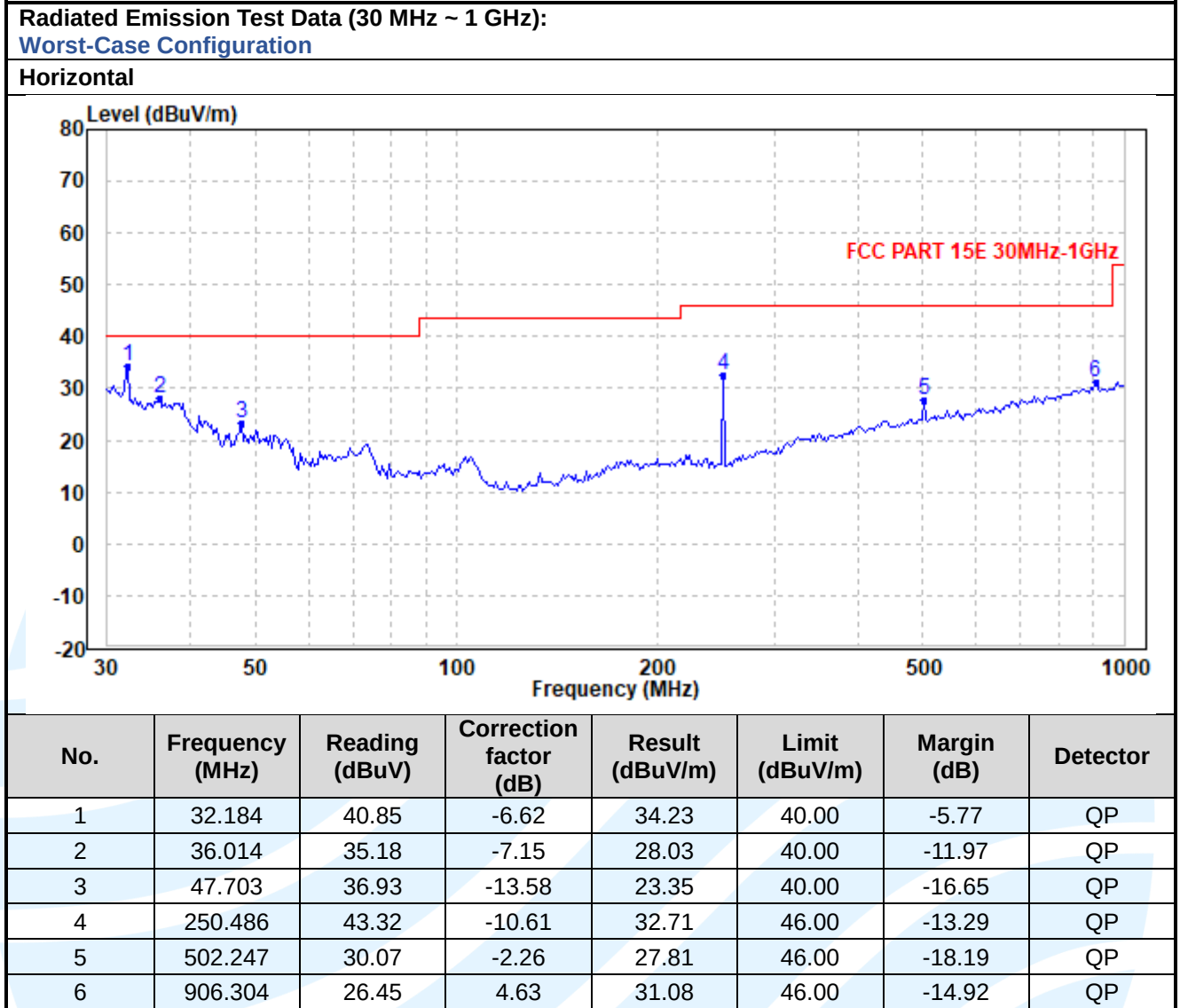
Equipment Used: Refer to section 3 for details.

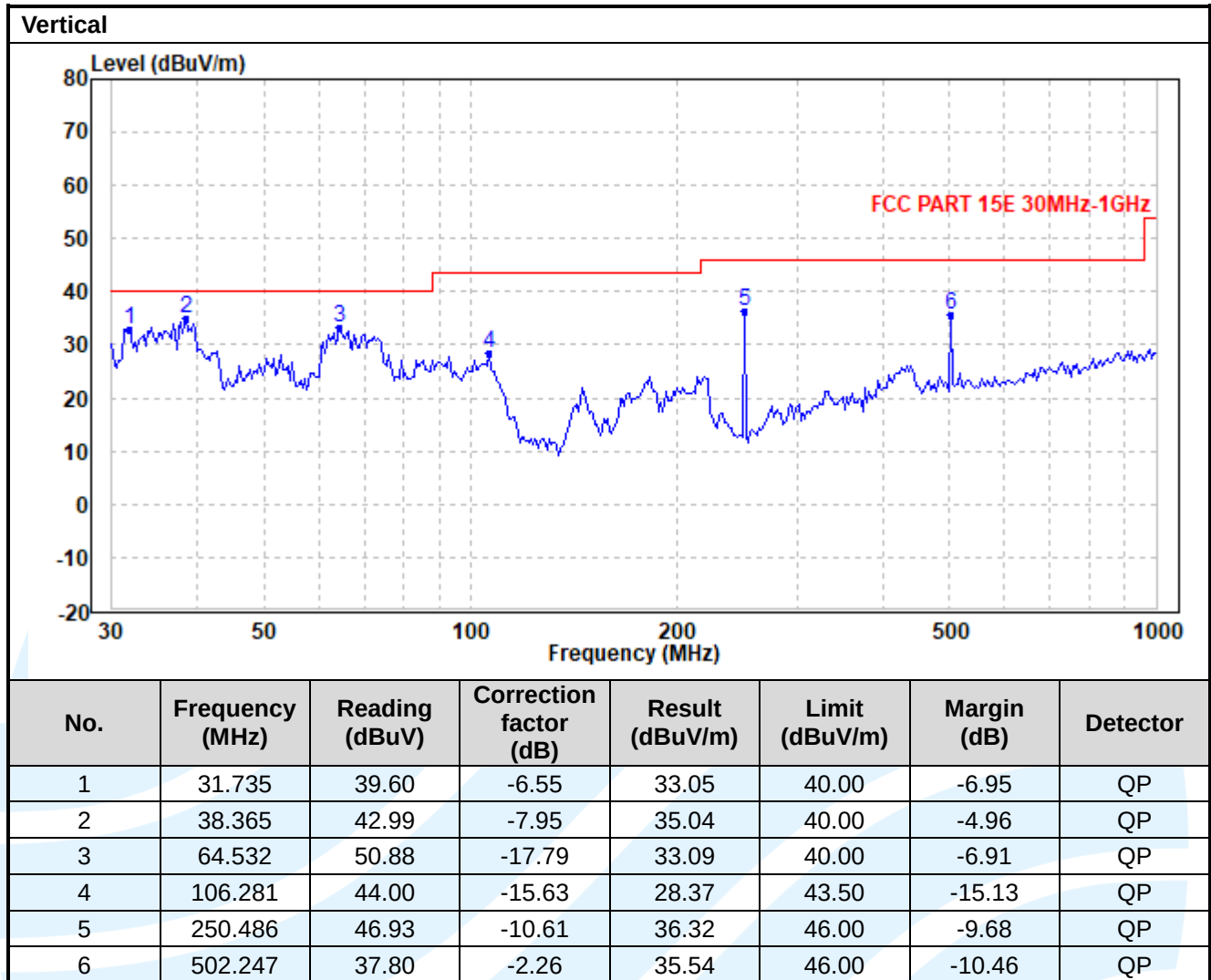
Test Result: Pass

The measurement data as follows:

Radiated Emission Test Data (9 KHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.





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Radiated Emission Test Data (Above 1GHz):

TX1_5G_A_5180 MHz								
10360 MHz			15540 MHz					
1	10360	33.44	3.38	36.82	54.00	-17.18	Average	Horizontal
2	10360	46.31	3.38	49.69	74.00	-24.31	Peak	Horizontal
3	15540	29.96	7.56	37.52	54.00	-16.48	Average	Horizontal
4	15540	41.57	7.56	49.13	74.00	-24.87	Peak	Horizontal
5	10360	33.63	3.38	37.01	54.00	-16.99	Average	Vertical
6	10360	48.75	3.38	52.13	74.00	-21.87	Peak	Vertical
7	15540	30.14	7.56	37.70	54.00	-16.30	Average	Vertical
8	15540	41.75	7.56	49.31	74.00	-24.69	Peak	Vertical
TX1_5G_A_5220 MHz								
10440 MHz			15660 MHz					
1	10440	33.74	3.38	37.12	54.00	-16.88	Average	Horizontal
2	10440	46.66	3.38	50.04	74.00	-23.96	Peak	Horizontal
3	15660	30.16	7.46	37.62	54.00	-16.38	Average	Horizontal
4	15660	41.53	7.46	48.99	74.00	-25.01	Peak	Horizontal
5	10440	32.89	3.38	36.27	54.00	-17.73	Average	Vertical
6	10440	45.10	3.38	48.48	74.00	-25.52	Peak	Vertical
7	15660	30.39	7.46	37.85	54.00	-16.15	Average	Vertical
8	15660	41.97	7.46	49.43	74.00	-24.57	Peak	Vertical
TX1_5G_A_5240 MHz								
10480 MHz			15720 MHz					
1	10480	33.29	3.39	36.68	54.00	-17.32	Average	Horizontal
2	10480	45.37	3.39	48.76	74.00	-25.24	Peak	Horizontal
3	15720	30.23	7.40	37.63	54.00	-16.37	Average	Horizontal
4	15720	41.22	7.40	48.62	74.00	-25.38	Peak	Horizontal
5	10480	32.02	3.39	35.41	54.00	-18.59	Average	Vertical
6	10480	43.43	3.39	46.82	74.00	-27.18	Peak	Vertical
7	15720	30.12	7.40	37.52	54.00	-16.48	Average	Vertical
8	15720	41.20	7.40	48.60	74.00	-25.40	Peak	Vertical
TX1_5G_A_5260 MHz								
10520 MHz			15780 MHz					
1	10520	33.08	3.35	36.43	54.00	-17.57	Average	Horizontal
2	10520	45.87	3.35	49.22	74.00	-24.78	Peak	Horizontal
3	15780	30.19	7.35	37.54	54.00	-16.46	Average	Horizontal
4	15780	41.94	7.35	49.29	74.00	-24.71	Peak	Horizontal
5	10520	32.12	3.35	35.47	54.00	-18.53	Average	Vertical
6	10520	44.54	3.35	47.89	74.00	-26.11	Peak	Vertical
7	15780	30.17	7.35	37.52	54.00	-16.48	Average	Vertical
8	15780	41.68	7.35	49.03	74.00	-24.97	Peak	Vertical
TX1_5G_A_5300 MHz								
10600 MHz			15900 MHz					
1	10600	31.11	3.19	34.30	54.00	-19.70	Average	Horizontal
2	10600	44.64	3.19	47.83	74.00	-26.17	Peak	Horizontal
3	15900	28.68	7.24	35.92	54.00	-18.08	Average	Horizontal
4	15900	41.42	7.24	48.66	74.00	-25.34	Peak	Horizontal
5	10600	29.93	3.19	33.12	54.00	-20.88	Average	Vertical
6	10600	41.49	3.19	44.68	74.00	-29.32	Peak	Vertical
7	15900	28.51	7.24	35.75	54.00	-18.25	Average	Vertical
8	15900	40.48	7.24	47.72	74.00	-26.28	Peak	Vertical
TX1_5G_A_5320 MHz								
10640 MHz			15960 MHz					
1	10640	31.04	3.10	34.14	54.00	-19.86	Average	Horizontal
2	10640	42.71	3.10	45.81	74.00	-28.19	Peak	Horizontal
3	15960	28.62	7.19	35.81	54.00	-18.19	Average	Horizontal
4	15960	41.16	7.19	48.35	74.00	-25.65	Peak	Horizontal
5	10640	29.74	3.10	32.84	54.00	-21.16	Average	Vertical
6	10640	41.24	3.10	44.34	74.00	-29.66	Peak	Vertical
7	15960	28.68	7.19	35.87	54.00	-18.13	Average	Vertical
8	15960	39.71	7.19	46.90	74.00	-27.10	Peak	Vertical

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TX1_5G_A_5500 MHz		11000 MHz		16500 MHz				
1	11000	37.78	2.36	40.14	54.00	-13.86	Average	Horizontal
2	11000	57.72	2.36	60.08	74.00	-13.92	Peak	Horizontal
3	16500	31.48	8.00	39.48	54.00	-14.52	Average	Horizontal
4	16500	44.22	8.00	52.22	74.00	-21.78	Peak	Horizontal
5	11000	38.90	2.36	41.26	54.00	-12.74	Average	Vertical
6	11000	60.16	2.36	62.52	74.00	-11.48	Peak	Vertical
7	16500	31.33	8.00	39.33	54.00	-14.67	Average	Vertical
8	16500	43.51	8.00	51.51	74.00	-22.49	Peak	Vertical
TX1_5G_A_5600 MHz		11200 MHz		16800 MHz				
1	11200	33.47	2.24	35.71	54.00	-18.29	Average	Horizontal
2	11200	50.28	2.24	52.52	74.00	-21.48	Peak	Horizontal
3	16800	31.15	8.39	39.54	54.00	-14.46	Average	Horizontal
4	16800	43.26	8.39	51.65	74.00	-22.35	Peak	Horizontal
5	11200	34.78	2.24	37.02	54.00	-16.98	Average	Vertical
6	11200	53.26	2.24	55.50	74.00	-18.50	Peak	Vertical
7	16800	31.07	8.39	39.46	54.00	-14.54	Average	Vertical
8	16800	43.69	8.39	52.08	74.00	-21.92	Peak	Vertical
TX1_5G_A_5700 MHz		11400 MHz		17100 MHz				
1	11400	33.07	2.11	35.18	54.00	-18.82	Average	Horizontal
2	11400	51.45	2.11	53.56	74.00	-20.44	Peak	Horizontal
3	17100	31.35	8.79	40.14	54.00	-13.86	Average	Horizontal
4	17100	43.21	8.79	52.00	74.00	-22.00	Peak	Horizontal
5	11400	32.94	2.11	35.05	54.00	-18.95	Average	Vertical
6	11400	50.23	2.11	52.34	74.00	-21.66	Peak	Vertical
7	17100	31.23	8.79	40.02	54.00	-13.98	Average	Vertical
8	17100	43.53	8.79	52.32	74.00	-21.68	Peak	Vertical
TX1_5G_A_5720 MHz		11440 MHz		17160 MHz				
1	11440	33.08	2.09	35.17	54.00	-18.83	Average	Horizontal
2	11440	43.67	2.09	45.76	74.00	-28.24	Peak	Horizontal
3	17160	31.12	8.88	40.00	54.00	-14.00	Average	Horizontal
4	17160	41.24	8.88	50.12	74.00	-23.88	Peak	Horizontal
5	11440	33.21	2.09	35.30	54.00	-18.70	Average	Vertical
6	11440	52.67	2.09	54.76	74.00	-19.24	Peak	Vertical
7	17160	30.87	8.88	39.75	54.00	-14.25	Average	Vertical
8	17160	43.44	8.88	52.32	74.00	-21.68	Peak	Vertical
TX1_5G_A_5745 MHz		11490 MHz		17235 MHz				
1	11490	32.73	2.06	34.79	54.00	-19.21	Average	Horizontal
2	11490	51.50	2.06	53.56	74.00	-20.44	Peak	Horizontal
3	17235	31.03	8.99	40.02	54.00	-13.98	Average	Horizontal
4	17235	43.92	8.99	52.91	74.00	-21.09	Peak	Horizontal
5	11490	34.02	2.06	36.08	54.00	-17.92	Average	Vertical
6	11490	52.58	2.06	54.64	74.00	-19.36	Peak	Vertical
7	17235	30.91	8.99	39.90	54.00	-14.10	Average	Vertical
8	17235	43.68	8.99	52.67	74.00	-21.33	Peak	Vertical
TX1_5G_A_5785 MHz		11570 MHz		17355 MHz				
1	11570	33.21	2.05	35.26	54.00	-18.74	Average	Horizontal
2	11570	50.89	2.05	52.94	74.00	-21.06	Peak	Horizontal
3	17355	31.01	9.16	40.17	54.00	-13.83	Average	Horizontal
4	17355	43.62	9.16	52.78	74.00	-21.22	Peak	Horizontal
5	11570	33.85	2.05	35.90	54.00	-18.10	Average	Vertical
6	11570	52.70	2.05	54.75	74.00	-19.25	Peak	Vertical
7	17355	30.80	9.16	39.96	54.00	-14.04	Average	Vertical
8	17355	43.45	9.16	52.61	74.00	-21.39	Peak	Vertical
TX1_5G_A_5825 MHz		11650 MHz		17475 MHz				
1	11650	33.68	2.08	35.76	54.00	-18.24	Average	Horizontal
2	11650	51.94	2.08	54.02	74.00	-19.98	Peak	Horizontal
3	17475	29.70	9.33	39.03	54.00	-14.97	Average	Horizontal
4	17475	41.80	9.33	51.13	74.00	-22.87	Peak	Horizontal

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5	11650	34.06	2.08	36.14	54.00	-17.86	Average	Vertical
6	11650	53.87	2.08	55.95	74.00	-18.05	Peak	Vertical
7	17475	29.61	9.33	38.94	54.00	-15.06	Average	Vertical
8	17475	42.54	9.33	51.87	74.00	-22.13	Peak	Vertical

TX2_5G_A_5180 MHz		10360 MHz		15540 MHz				
1	10360	35.63	3.38	39.01	54.00	-14.99	Average	Horizontal
2	10360	56.12	3.38	59.50	74.00	-14.50	Peak	Horizontal
3	15540	31.57	7.56	39.13	54.00	-14.87	Average	Horizontal
4	15540	44.75	7.56	52.31	74.00	-21.69	Peak	Horizontal
5	10360	36.54	3.38	39.92	54.00	-14.08	Average	Vertical
6	10360	59.93	3.38	63.31	74.00	-10.69	Peak	Vertical
7	15540	31.61	7.56	39.17	54.00	-14.83	Average	Vertical
8	15540	44.56	7.56	52.12	74.00	-21.88	Peak	Vertical

TX2_5G_A_5220 MHz		10440 MHz		15660 MHz				
1	10440	36.97	3.38	40.35	54.00	-13.65	Average	Horizontal
2	10440	55.36	3.38	58.74	74.00	-15.26	Peak	Horizontal
3	15660	31.92	7.46	39.38	54.00	-14.62	Average	Horizontal
4	15660	44.83	7.46	52.29	74.00	-21.71	Peak	Horizontal
5	10440	38.96	3.38	42.34	54.00	-11.66	Average	Vertical
6	10440	59.55	3.38	62.93	74.00	-11.07	Peak	Vertical
7	15660	31.89	7.46	39.35	54.00	-14.65	Average	Vertical
8	15660	44.18	7.46	51.64	74.00	-22.36	Peak	Vertical

TX2_5G_A_5240 MHz		10480 MHz		15720 MHz				
1	10480	35.70	3.39	39.09	54.00	-14.91	Average	Horizontal
2	10480	56.18	3.39	59.57	74.00	-14.43	Peak	Horizontal
3	15720	31.60	7.40	39.00	54.00	-15.00	Average	Horizontal
4	15720	44.51	7.40	51.91	74.00	-22.09	Peak	Horizontal
5	10480	37.71	3.39	41.10	54.00	-12.90	Average	Vertical
6	10480	59.53	3.39	62.92	74.00	-11.08	Peak	Vertical
7	15720	31.56	7.40	38.96	54.00	-15.04	Average	Vertical
8	15720	44.04	7.40	51.44	74.00	-22.56	Peak	Vertical

TX2_5G_A_5260 MHz		10520 MHz		15780 MHz				
1	10520	34.27	3.35	37.62	54.00	-16.38	Average	Horizontal
2	10520	53.04	3.35	56.39	74.00	-17.61	Peak	Horizontal
3	15780	31.58	7.35	38.93	54.00	-15.07	Average	Horizontal
4	15780	42.76	7.35	50.11	74.00	-23.89	Peak	Horizontal
5	10520	37.36	3.35	40.71	54.00	-13.29	Average	Vertical
6	10520	58.93	3.35	62.28	74.00	-11.72	Peak	Vertical
7	15780	31.61	7.35	38.96	54.00	-15.04	Average	Vertical
8	15780	43.76	7.35	51.11	74.00	-22.89	Peak	Vertical

TX2_5G_A_5300 MHz		10600 MHz		15900 MHz				
1	10600	35.72	3.19	38.91	54.00	-15.09	Average	Horizontal
2	10600	53.35	3.19	56.54	74.00	-17.46	Peak	Horizontal
3	15900	30.29	7.24	37.53	54.00	-16.47	Average	Horizontal
4	15900	43.28	7.24	50.52	74.00	-23.48	Peak	Horizontal
5	10600	37.42	3.19	40.61	54.00	-13.39	Average	Vertical
6	10600	58.06	3.19	61.25	74.00	-12.75	Peak	Vertical
7	15900	30.20	7.24	37.44	54.00	-16.56	Average	Vertical
8	15900	42.72	7.24	49.96	74.00	-24.04	Peak	Vertical

TX2_5G_A_5320 MHz		10640 MHz		15960 MHz				
1	10640	35.50	3.10	38.60	54.00	-15.40	Average	Horizontal
2	10640	55.97	3.10	59.07	74.00	-14.93	Peak	Horizontal
3	15960	30.38	7.19	37.57	54.00	-16.43	Average	Horizontal
4	15960	43.13	7.19	50.32	74.00	-23.68	Peak	Horizontal
5	10640	34.10	3.10	37.20	54.00	-16.80	Average	Vertical
6	10640	52.62	3.10	55.72	74.00	-18.28	Peak	Vertical
7	15960	30.25	7.19	37.44	54.00	-16.56	Average	Vertical
8	15960	42.45	7.19	49.64	74.00	-24.36	Peak	Vertical

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TX2_5G_A_5500 MHz		11000 MHz		16500 MHz				
1	11000	35.19	2.36	37.55	54.00	-16.45	Average	Horizontal
2	11000	52.61	2.36	54.97	74.00	-19.03	Peak	Horizontal
3	16500	31.29	8.00	39.29	54.00	-14.71	Average	Horizontal
4	16500	43.35	8.00	51.35	74.00	-22.65	Peak	Horizontal
5	11000	36.10	2.36	38.46	54.00	-15.54	Average	Vertical
6	11000	53.96	2.36	56.32	74.00	-17.68	Peak	Vertical
7	16500	31.33	8.00	39.33	54.00	-14.67	Average	Vertical
8	16500	43.46	8.00	51.46	74.00	-22.54	Peak	Vertical
TX2_5G_A_5600 MHz		11200 MHz		16800 MHz				
1	11000	35.19	2.36	37.55	54.00	-16.45	Average	Horizontal
2	11200	47.55	2.24	49.79	74.00	-24.21	Peak	Horizontal
3	16500	31.29	8.00	39.29	54.00	-14.71	Average	Horizontal
4	16800	43.71	8.39	52.10	74.00	-21.90	Peak	Horizontal
5	11200	33.65	2.24	35.89	54.00	-18.11	Average	Vertical
6	11200	51.49	2.24	53.73	74.00	-20.27	Peak	Vertical
7	16800	31.03	8.39	39.42	54.00	-14.58	Average	Vertical
8	16800	43.02	8.39	51.41	74.00	-22.59	Peak	Vertical
TX2_5G_A_5700 MHz		11400 MHz		17100 MHz				
1	11400	32.26	2.11	34.37	54.00	-19.63	Average	Horizontal
2	11400	47.88	2.11	49.99	74.00	-24.01	Peak	Horizontal
3	17100	31.15	8.79	39.94	54.00	-14.06	Average	Horizontal
4	17100	43.11	8.79	51.90	74.00	-22.10	Peak	Horizontal
5	11400	33.13	2.11	35.24	54.00	-18.76	Average	Vertical
6	11400	51.91	2.11	54.02	74.00	-19.98	Peak	Vertical
7	17100	31.19	8.79	39.98	54.00	-14.02	Average	Vertical
8	17100	43.79	8.79	52.58	74.00	-21.42	Peak	Vertical
TX2_5G_A_5720 MHz		11440 MHz		17160 MHz				
1	11440	32.59	2.09	34.68	54.00	-19.32	Average	Horizontal
2	11440	50.13	2.09	52.22	74.00	-21.78	Peak	Horizontal
3	17160	30.87	8.88	39.75	54.00	-14.25	Average	Horizontal
4	17160	43.32	8.88	52.20	74.00	-21.80	Peak	Horizontal
5	11440	32.24	2.09	34.33	54.00	-19.67	Average	Vertical
6	11440	44.89	2.09	46.98	74.00	-27.02	Peak	Vertical
7	17160	30.79	8.88	39.67	54.00	-14.33	Average	Vertical
8	17160	42.32	8.88	51.20	74.00	-22.80	Peak	Vertical
TX2_5G_A_5745 MHz		11490 MHz		17235 MHz				
1	11490	32.35	2.06	34.41	54.00	-19.59	Average	Horizontal
2	11490	50.03	2.06	52.09	74.00	-21.91	Peak	Horizontal
3	17235	30.74	8.99	39.73	54.00	-14.27	Average	Horizontal
4	17235	42.28	8.99	51.27	74.00	-22.73	Peak	Horizontal
5	11490	32.99	2.06	35.05	54.00	-18.95	Average	Vertical
6	11490	50.31	2.06	52.37	74.00	-21.63	Peak	Vertical
7	17235	30.87	8.99	39.86	54.00	-14.14	Average	Vertical
8	17235	43.15	8.99	52.14	74.00	-21.86	Peak	Vertical
TX2_5G_A_5785 MHz		11570 MHz		17355 MHz				
1	11570	33.39	2.05	35.44	54.00	-18.56	Average	Horizontal
2	11570	50.90	2.05	52.95	74.00	-21.05	Peak	Horizontal
3	17355	30.67	9.16	39.83	54.00	-14.17	Average	Horizontal
4	17355	43.06	9.16	52.22	74.00	-21.78	Peak	Horizontal
5	11570	33.30	2.05	35.35	54.00	-18.65	Average	Vertical
6	11570	50.55	2.05	52.60	74.00	-21.40	Peak	Vertical
7	17355	30.76	9.16	39.92	54.00	-14.08	Average	Vertical
8	17355	43.40	9.16	52.56	74.00	-21.44	Peak	Vertical
TX2_5G_A_5825 MHz		11650 MHz		17475 MHz				
1	11570	33.30	2.05	35.35	54.00	-18.65	Average	Vertical
2	11650	52.15	2.08	54.23	74.00	-19.77	Peak	Horizontal
3	17355	30.76	9.16	39.92	54.00	-14.08	Average	Vertical
4	17475	41.85	9.33	51.18	74.00	-22.82	Peak	Horizontal
5	11570	33.30	2.05	35.35	54.00	-18.65	Average	Vertical

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UTTR-RF-FCCPART15.407-V1.3

6	11650	52.33	2.08	54.41	74.00	-19.59	Peak	Vertical
7	17355	30.76	9.16	39.92	54.00	-14.08	Average	Vertical
8	17475	42.17	9.33	51.50	74.00	-22.50	Peak	Vertical

TX3_5G_A_5180 MHz		10360 MHz		15540 MHz				
1	10360	32.98	3.38	36.36	54.00	-17.64	Average	Horizontal
2	10360	46.19	3.38	49.57	74.00	-24.43	Peak	Horizontal
3	15540	30.00	7.56	37.56	54.00	-16.44	Average	Horizontal
4	15540	40.60	7.56	48.16	74.00	-25.84	Peak	Horizontal
5	10360	40.30	3.38	43.68	54.00	-10.32	Average	Vertical
6	10360	56.99	3.38	60.37	74.00	-13.63	Peak	Vertical
7	15540	30.75	7.56	38.31	54.00	-15.69	Average	Vertical
8	15540	42.10	7.56	49.66	74.00	-24.34	Peak	Vertical

TX3_5G_A_5220 MHz		10440 MHz		15660 MHz				
1	10440	41.44	3.38	44.82	54.00	-9.18	Average	Vertical
2	10440	49.59	3.38	52.97	74.00	-21.03	Peak	Horizontal
3	15660	31.27	7.46	38.73	54.00	-15.27	Average	Vertical
4	15660	41.59	7.46	49.05	74.00	-24.95	Peak	Horizontal
5	10440	41.44	3.38	44.82	54.00	-9.18	Average	Vertical
6	10440	57.45	3.38	60.83	74.00	-13.17	Peak	Vertical
7	15660	31.27	7.46	38.73	54.00	-15.27	Average	Vertical
8	15660	42.11	7.46	49.57	74.00	-24.43	Peak	Vertical

TX3_5G_A_5240 MHz		10480 MHz		15720 MHz				
1	10480	35.30	3.39	38.69	54.00	-15.31	Average	Horizontal
2	10480	50.48	3.39	53.87	74.00	-20.13	Peak	Horizontal
3	15720	29.96	7.40	37.36	54.00	-16.64	Average	Horizontal
4	15720	41.68	7.40	49.08	74.00	-24.92	Peak	Horizontal
5	10480	40.48	3.39	43.87	54.00	-10.13	Average	Vertical
6	10480	58.00	3.39	61.39	74.00	-12.61	Peak	Vertical
7	15720	31.09	7.40	38.49	54.00	-15.51	Average	Vertical
8	15720	42.47	7.40	49.87	74.00	-24.13	Peak	Vertical

TX3_5G_A_5260 MHz		10520 MHz		15780 MHz				
1	10520	35.98	3.35	39.33	54.00	-14.67	Average	Horizontal
2	10520	53.14	3.35	56.49	74.00	-17.51	Peak	Horizontal
3	15780	30.03	7.35	37.38	54.00	-16.62	Average	Horizontal
4	15780	40.67	7.35	48.02	74.00	-25.98	Peak	Horizontal
5	10520	41.36	3.35	44.71	54.00	-9.29	Average	Vertical
6	10520	59.54	3.35	62.89	74.00	-11.11	Peak	Vertical
7	15780	30.94	7.35	38.29	54.00	-15.71	Average	Vertical
8	15780	41.93	7.35	49.28	74.00	-24.72	Peak	Vertical

TX3_5G_A_5300 MHz		10600 MHz		15900 MHz				
1	10600	35.45	3.19	38.64	54.00	-15.36	Average	Horizontal
2	10600	50.28	3.19	53.47	74.00	-20.53	Peak	Horizontal
3	15900	28.24	7.24	35.48	54.00	-18.52	Average	Horizontal
4	15900	40.77	7.24	48.01	74.00	-25.99	Peak	Horizontal
5	10600	40.54	3.19	43.73	54.00	-10.27	Average	Vertical
6	10600	57.33	3.19	60.52	74.00	-13.48	Peak	Vertical
7	15900	29.25	7.24	36.49	54.00	-17.51	Average	Vertical
8	15900	40.83	7.24	48.07	74.00	-25.93	Peak	Vertical

TX3_5G_A_5320 MHz		10640 MHz		15960 MHz				
1	10640	35.13	3.10	38.23	54.00	-15.77	Average	Horizontal
2	10640	51.30	3.10	54.40	74.00	-19.60	Peak	Horizontal
3	15960	28.20	7.19	35.39	54.00	-18.61	Average	Horizontal
4	15960	39.64	7.19	46.83	74.00	-27.17	Peak	Horizontal
5	10640	39.35	3.10	42.45	54.00	-11.55	Average	Vertical
6	10640	57.48	3.10	60.58	74.00	-13.42	Peak	Vertical
7	15960	29.18	7.19	36.37	54.00	-17.63	Average	Vertical
8	15960	40.86	7.19	48.05	74.00	-25.95	Peak	Vertical

TX3_5G_A_5500 MHz		11000 MHz		16500 MHz				
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UTTR-RF-FCCPART15.407-V1.3

1	11000	35.96	2.36	38.32	54.00	-15.68	Average	Horizontal
2	11000	54.53	2.36	56.89	74.00	-17.11	Peak	Horizontal
3	16500	31.36	8.00	39.36	54.00	-14.64	Average	Horizontal
4	16500	44.52	8.00	52.52	74.00	-21.48	Peak	Horizontal
5	11000	40.41	2.36	42.77	54.00	-11.23	Average	Vertical
6	11000	62.11	2.36	64.47	74.00	-9.53	Peak	Vertical
7	16500	31.44	8.00	39.44	54.00	-14.56	Average	Vertical
8	16500	44.18	8.00	52.18	74.00	-21.82	Peak	Vertical
TX3_5G_A_5600 MHz 11200 MHz 16800 MHz								
1	11200	33.28	2.24	35.52	54.00	-18.48	Average	Vertical
2	11200	49.05	2.24	51.29	74.00	-22.71	Peak	Vertical
3	16800	31.07	8.39	39.46	54.00	-14.54	Average	Vertical
4	16800	43.77	8.39	52.16	74.00	-21.84	Peak	Vertical
5	11200	33.74	2.24	35.98	54.00	-18.02	Average	Vertical
6	11200	50.75	2.24	52.99	74.00	-21.01	Peak	Vertical
7	16800	31.19	8.39	39.58	54.00	-14.42	Average	Vertical
8	16800	43.81	8.39	52.20	74.00	-21.80	Peak	Vertical
TX3_5G_A_5700 MHz 11400 MHz 17100 MHz								
1	11400	32.71	2.11	34.82	54.00	-19.18	Average	Horizontal
2	11400	50.95	2.11	53.06	74.00	-20.94	Peak	Horizontal
3	17100	31.42	8.79	40.21	54.00	-13.79	Average	Horizontal
4	17100	44.12	8.79	52.91	74.00	-21.09	Peak	Horizontal
5	11400	32.78	2.11	34.89	54.00	-19.11	Average	Vertical
6	11400	50.11	2.11	52.22	74.00	-21.78	Peak	Vertical
7	17100	31.38	8.79	40.17	54.00	-13.83	Average	Vertical
8	17100	44.32	8.79	53.11	74.00	-20.89	Peak	Vertical
TX3_5G_A_5720 MHz 11440 MHz 17160 MHz								
1	11440	32.75	2.09	34.84	54.00	-19.16	Average	Horizontal
2	11440	49.02	2.09	51.11	74.00	-22.89	Peak	Horizontal
3	17160	31.08	8.88	39.96	54.00	-14.04	Average	Horizontal
4	17160	44.47	8.88	53.35	74.00	-20.65	Peak	Horizontal
5	11440	33.49	2.09	35.58	54.00	-18.42	Average	Vertical
6	11440	53.02	2.09	55.11	74.00	-18.89	Peak	Vertical
7	17160	31.04	8.88	39.92	54.00	-14.08	Average	Vertical
8	17160	43.56	8.88	52.44	74.00	-21.56	Peak	Vertical
TX3_5G_A_5745 MHz 11490 MHz 17235 MHz								
1	11490	32.86	2.06	34.92	54.00	-19.08	Average	Horizontal
2	11490	51.90	2.06	53.96	74.00	-20.04	Peak	Horizontal
3	17235	31.07	8.99	40.06	54.00	-13.94	Average	Horizontal
4	17235	43.13	8.99	52.12	74.00	-21.88	Peak	Horizontal
5	11490	33.09	2.06	35.15	54.00	-18.85	Average	Vertical
6	11490	52.68	2.06	54.74	74.00	-19.26	Peak	Vertical
7	17235	31.15	8.99	40.14	54.00	-13.86	Average	Vertical
8	17235	43.60	8.99	52.59	74.00	-21.41	Peak	Vertical
TX3_5G_A_5785 MHz 11570 MHz 17355 MHz								
1	11570	33.43	2.05	35.48	54.00	-18.52	Average	Horizontal
2	11570	50.42	2.05	52.47	74.00	-21.53	Peak	Horizontal
3	17355	31.05	9.16	40.21	54.00	-13.79	Average	Horizontal
4	17355	43.23	9.16	52.39	74.00	-21.61	Peak	Horizontal
5	11570	34.08	2.05	36.13	54.00	-17.87	Average	Vertical
6	11570	52.16	2.05	54.21	74.00	-19.79	Peak	Vertical
7	17355	30.92	9.16	40.08	54.00	-13.92	Average	Vertical
8	17355	44.02	9.16	53.18	74.00	-20.82	Peak	Vertical
TX3_5G_A_5825 MHz 11650 MHz 17475 MHz								
1	11650	33.47	2.08	35.55	54.00	-18.45	Average	Horizontal
2	11650	49.93	2.08	52.01	74.00	-21.99	Peak	Horizontal
3	17475	29.89	9.33	39.22	54.00	-14.78	Average	Horizontal
4	17475	43.47	9.33	52.80	74.00	-21.20	Peak	Horizontal
5	11650	34.18	2.08	36.26	54.00	-17.74	Average	Vertical
6	11650	52.98	2.08	55.06	74.00	-18.94	Peak	Vertical

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UTTR-RF-FCCPART15.407-V1.3

7	17475	29.80	9.33	39.13	54.00	-14.87	Average	Vertical
8	17475	42.48	9.33	51.81	74.00	-22.19	Peak	Vertical
TX1TX2TX3_5G_N20_5190 MHz 10380 MHz 15570 MHz								
1	10360	37.63	3.38	41.01	54.00	-12.99	Average	Horizontal
2	10360	51.73	3.38	55.11	74.00	-18.89	Peak	Horizontal
3	15540	31.41	7.56	38.97	54.00	-15.03	Average	Horizontal
4	15540	44.14	7.56	51.70	74.00	-22.30	Peak	Horizontal
5	10360	39.19	3.38	42.57	54.00	-11.43	Average	Vertical
6	10360	53.60	3.38	56.98	74.00	-17.02	Peak	Vertical
7	15540	31.48	7.56	39.04	54.00	-14.96	Average	Vertical
8	15540	42.90	7.56	50.46	74.00	-23.54	Peak	Vertical
TX1TX2TX3_5G_N20_5220 MHz 10440 MHz 15660 MHz								
1	10440	38.21	3.38	41.59	54.00	-12.41	Average	Horizontal
2	10440	52.77	3.38	56.15	74.00	-17.85	Peak	Horizontal
3	15660	31.77	7.46	39.23	54.00	-14.77	Average	Horizontal
4	15660	44.51	7.46	51.97	74.00	-22.03	Peak	Horizontal
5	10440	37.35	3.38	40.73	54.00	-13.27	Average	Vertical
6	10440	51.87	3.38	55.25	74.00	-18.75	Peak	Vertical
7	15660	31.85	7.46	39.31	54.00	-14.69	Average	Vertical
8	15660	43.96	7.46	51.42	74.00	-22.58	Peak	Vertical
TX1TX2TX3_5G_N20_5240 MHz 10480 MHz 15720 MHz								
1	10440	38.21	3.38	41.59	54.00	-12.41	Average	Horizontal
2	10480	49.59	3.39	52.98	74.00	-21.02	Peak	Horizontal
3	15660	31.77	7.46	39.23	54.00	-14.77	Average	Horizontal
4	15720	43.91	7.40	51.31	74.00	-22.69	Peak	Horizontal
5	10480	38.04	3.39	41.43	54.00	-12.57	Average	Vertical
6	10480	54.42	3.39	57.81	74.00	-16.19	Peak	Vertical
7	15720	31.41	7.40	38.81	54.00	-15.19	Average	Vertical
8	15720	44.41	7.40	51.81	74.00	-22.19	Peak	Vertical
TX1TX2TX3_5G_N20_5260 MHz 10520 MHz 15780 MHz								
1	10520	33.60	3.35	36.95	54.00	-17.05	Average	Horizontal
2	10520	49.33	3.35	52.68	74.00	-21.32	Peak	Horizontal
3	15780	31.58	7.35	38.93	54.00	-15.07	Average	Horizontal
4	15780	43.95	7.35	51.30	74.00	-22.70	Peak	Horizontal
5	10520	37.65	3.35	41.00	54.00	-13.00	Average	Vertical
6	10520	52.54	3.35	55.89	74.00	-18.11	Peak	Vertical
7	15780	31.99	7.35	39.34	54.00	-14.66	Average	Vertical
8	15780	46.93	7.35	54.28	74.00	-19.72	Peak	Vertical
TX1TX2TX3_5G_N20_5300 MHz 10600 MHz 15900 MHz								
1	10600	35.38	3.19	38.57	54.00	-15.43	Average	Horizontal
2	10600	47.44	3.19	50.63	74.00	-23.37	Peak	Horizontal
3	15900	30.07	7.24	37.31	54.00	-16.69	Average	Horizontal
4	15900	43.26	7.24	50.50	74.00	-23.50	Peak	Horizontal
5	10600	34.62	3.19	37.81	54.00	-16.19	Average	Vertical
6	10600	48.02	3.19	51.21	74.00	-22.79	Peak	Vertical
7	15900	30.25	7.24	37.49	54.00	-16.51	Average	Vertical
8	15900	42.62	7.24	49.86	74.00	-24.14	Peak	Vertical
TX1TX2TX3_5G_N20_5320 MHz 10640 MHz 15960 MHz								
1	10640	34.84	3.10	37.94	54.00	-16.06	Average	Horizontal
2	10640	48.08	3.10	51.18	74.00	-22.82	Peak	Horizontal
3	15960	30.25	7.19	37.44	54.00	-16.56	Average	Horizontal
4	15960	43.27	7.19	50.46	74.00	-23.54	Peak	Horizontal
5	10640	35.33	3.10	38.43	54.00	-15.57	Average	Vertical
6	10640	51.61	3.10	54.71	74.00	-19.29	Peak	Vertical
7	15960	30.38	7.19	37.57	54.00	-16.43	Average	Vertical
8	15960	44.73	7.19	51.92	74.00	-22.08	Peak	Vertical
TX1TX2TX3_5G_N20_5500 MHz 11000 MHz 16500 MHz								
1	11000	39.44	2.36	41.80	54.00	-12.20	Average	Horizontal

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2	11000	56.19	2.36	58.55	74.00	-15.45	Peak	Horizontal
3	16500	31.13	8.00	39.13	54.00	-14.87	Average	Horizontal
4	16500	43.06	8.00	51.06	74.00	-22.94	Peak	Horizontal
5	11000	41.12	2.36	43.48	54.00	-10.52	Average	Vertical
6	11000	57.00	2.36	59.36	74.00	-14.64	Peak	Vertical
7	16500	31.25	8.00	39.25	54.00	-14.75	Average	Vertical
8	16500	43.65	8.00	51.65	74.00	-22.35	Peak	Vertical
TX1TX2TX3_5G_N20_5600 MHz 11200 MHz 16800 MHz								
1	11200	36.80	2.24	39.04	54.00	-14.96	Average	Horizontal
2	11200	52.62	2.24	54.86	74.00	-19.14	Peak	Horizontal
3	16800	30.95	8.39	39.34	54.00	-14.66	Average	Horizontal
4	16800	43.36	8.39	51.75	74.00	-22.25	Peak	Horizontal
5	11200	35.73	2.24	37.97	54.00	-16.03	Average	Vertical
6	11200	49.84	2.24	52.08	74.00	-21.92	Peak	Vertical
7	16800	30.83	8.39	39.22	54.00	-14.78	Average	Vertical
8	16800	42.52	8.39	50.91	74.00	-23.09	Peak	Vertical
TX1TX2TX3_5G_N20_5700 MHz 11400 MHz 17100 MHz								
1	11400	34.16	2.11	36.27	54.00	-17.73	Average	Horizontal
2	11400	49.58	2.11	51.69	74.00	-22.31	Peak	Horizontal
3	17100	30.99	8.79	39.78	54.00	-14.22	Average	Horizontal
4	17100	42.76	8.79	51.55	74.00	-22.45	Peak	Horizontal
5	11400	35.15	2.11	37.26	54.00	-16.74	Average	Vertical
6	11400	49.98	2.11	52.09	74.00	-21.91	Peak	Vertical
7	17100	31.03	8.79	39.82	54.00	-14.18	Average	Vertical
8	17100	42.94	8.79	51.73	74.00	-22.27	Peak	Vertical
TX1TX2TX3_5G_N20_5720 MHz 11440 MHz 17160 MHz								
1	11440	33.82	2.09	35.91	54.00	-18.09	Average	Horizontal
2	11440	47.16	2.09	49.25	74.00	-24.75	Peak	Horizontal
3	17160	30.75	8.88	39.63	54.00	-14.37	Average	Horizontal
4	17160	43.71	8.88	52.59	74.00	-21.41	Peak	Horizontal
5	11440	34.87	2.09	36.96	54.00	-17.04	Average	Vertical
6	11440	47.90	2.09	49.99	74.00	-24.01	Peak	Vertical
7	17160	30.79	8.88	39.67	54.00	-14.33	Average	Vertical
8	17160	44.22	8.88	53.10	74.00	-20.90	Peak	Vertical
TX1TX2TX3_5G_N20_5745 MHz 11490 MHz 17235 MHz								
1	11490	33.02	2.06	35.08	54.00	-18.92	Average	Horizontal
2	11490	48.09	2.06	50.15	74.00	-23.85	Peak	Horizontal
3	17235	30.82	8.99	39.81	54.00	-14.19	Average	Horizontal
4	17235	42.73	8.99	51.72	74.00	-22.28	Peak	Horizontal
5	11490	32.93	2.06	34.99	54.00	-19.01	Average	Vertical
6	11490	46.92	2.06	48.98	74.00	-25.02	Peak	Vertical
7	17235	30.78	8.99	39.77	54.00	-14.23	Average	Vertical
8	17235	43.00	8.99	51.99	74.00	-22.01	Peak	Vertical
TX1TX2TX3_5G_N20_5785 MHz 11570 MHz 17355 MHz								
1	11570	33.82	2.05	35.87	54.00	-18.13	Average	Horizontal
2	11570	48.99	2.05	51.04	74.00	-22.96	Peak	Horizontal
3	17355	30.71	9.16	39.87	54.00	-14.13	Average	Horizontal
4	17355	43.24	9.16	52.40	74.00	-21.60	Peak	Horizontal
5	11570	34.39	2.05	36.44	54.00	-17.56	Average	Vertical
6	11570	49.06	2.05	51.11	74.00	-22.89	Peak	Vertical
7	17355	30.76	9.16	39.92	54.00	-14.08	Average	Vertical
8	17355	43.46	9.16	52.62	74.00	-21.38	Peak	Vertical
TX1TX2TX3_5G_N20_5825 MHz 11650 MHz 17475 MHz								
1	11650	34.03	2.08	36.11	54.00	-17.89	Average	Horizontal
2	11650	47.68	2.08	49.76	74.00	-24.24	Peak	Horizontal
3	17475	29.51	9.33	38.84	54.00	-15.16	Average	Horizontal
4	17475	42.53	9.33	51.86	74.00	-22.14	Peak	Horizontal
5	11650	34.91	2.08	36.99	54.00	-17.01	Average	Vertical
6	11650	49.60	2.08	51.68	74.00	-22.32	Peak	Vertical
7	17475	29.46	9.33	38.79	54.00	-15.21	Average	Vertical

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UTTR-RF-FCCPART15.407-V1.3

8	17475	42.91	9.33	52.24	74.00	-21.76	Peak	Vertical
TX1TX2TX3_5G_N40_5190 MHz 10380 MHz 15570 MHz								
1	10380	35.82	3.38	39.20	54.00	-14.80	Average	Horizontal
2	10380	47.38	3.38	50.76	74.00	-23.24	Peak	Horizontal
3	15570	31.36	7.54	38.90	54.00	-15.10	Average	Horizontal
4	15570	43.65	7.54	51.19	74.00	-22.81	Peak	Horizontal
5	10380	40.14	3.38	43.52	54.00	-10.48	Average	Vertical
6	10380	51.59	3.38	54.97	74.00	-19.03	Peak	Vertical
7	15570	31.39	7.54	38.93	54.00	-15.07	Average	Vertical
8	15570	43.51	7.54	51.05	74.00	-22.95	Peak	Vertical
TX1TX2TX3_5G_N40_5230 MHz 10460 MHz 15690 MHz								
1	10460	37.58	3.40	40.98	54.00	-13.02	Average	Horizontal
2	10460	50.85	3.40	54.25	74.00	-19.75	Peak	Horizontal
3	15690	32.29	7.42	39.71	54.00	-14.29	Average	Horizontal
4	15690	45.01	7.42	52.43	74.00	-21.57	Peak	Horizontal
5	10460	39.39	3.40	42.79	54.00	-11.21	Average	Vertical
6	10460	53.15	3.40	56.55	74.00	-17.45	Peak	Vertical
7	15690	33.22	7.42	40.64	54.00	-13.36	Average	Vertical
8	15690	47.82	7.42	55.24	74.00	-18.76	Peak	Vertical
TX1TX2TX3_5G_N40_5270 MHz 10540 MHz 15810 MHz								
1	10540	36.44	3.30	39.74	54.00	-14.26	Average	Vertical
2	10540	49.95	3.30	53.25	74.00	-20.75	Peak	Vertical
3	15810	30.71	7.33	38.04	54.00	-15.96	Average	Vertical
4	15810	43.24	7.33	50.57	74.00	-23.43	Peak	Vertical
5	10540	37.23	3.30	40.53	54.00	-13.47	Average	Vertical
6	10540	50.36	3.30	53.66	74.00	-20.34	Peak	Vertical
7	15810	30.75	7.33	38.08	54.00	-15.92	Average	Vertical
8	15810	42.82	7.33	50.15	74.00	-23.85	Peak	Vertical
TX1TX2TX3_5G_N40_5310 MHz 10620 MHz 15930 MHz								
1	10620	35.70	3.14	38.84	54.00	-15.16	Average	Horizontal
2	10620	47.95	3.14	51.09	74.00	-22.91	Peak	Horizontal
3	15930	30.14	7.21	37.35	54.00	-16.65	Average	Horizontal
4	15930	43.57	7.21	50.78	74.00	-23.22	Peak	Horizontal
5	10620	35.31	3.14	38.45	54.00	-15.55	Average	Vertical
6	10620	47.43	3.14	50.57	74.00	-23.43	Peak	Vertical
7	15930	30.05	7.21	37.26	54.00	-16.74	Average	Vertical
8	15930	43.57	7.21	50.78	74.00	-23.22	Peak	Vertical
TX1TX2TX3_5G_N40_5510 MHz 11020 MHz 16530 MHz								
1	11020	38.12	2.35	40.47	54.00	-13.53	Average	Horizontal
2	11020	53.80	2.35	56.15	74.00	-17.85	Peak	Horizontal
3	16530	31.32	8.04	39.36	54.00	-14.64	Average	Horizontal
4	16530	44.66	8.04	52.70	74.00	-21.30	Peak	Horizontal
5	11020	38.44	2.35	40.79	54.00	-13.21	Average	Vertical
6	11020	53.23	2.35	55.58	74.00	-18.42	Peak	Vertical
7	16530	31.32	8.04	39.36	54.00	-14.64	Average	Vertical
8	16530	44.10	8.04	52.14	74.00	-21.86	Peak	Vertical
TX1TX2TX3_5G_N40_5590 MHz 11180 MHz 16770 MHz								
1	11180	36.00	2.25	38.25	54.00	-15.75	Average	Horizontal
2	11180	47.97	2.25	50.22	74.00	-23.78	Peak	Horizontal
3	16770	30.82	8.35	39.17	54.00	-14.83	Average	Horizontal
4	16770	43.46	8.35	51.81	74.00	-22.19	Peak	Horizontal
5	11180	37.58	2.25	39.83	54.00	-14.17	Average	Vertical
6	11180	50.86	2.25	53.11	74.00	-20.89	Peak	Vertical
7	16770	30.87	8.35	39.22	54.00	-14.78	Average	Vertical
8	16770	43.01	8.35	51.36	74.00	-22.64	Peak	Vertical
TX1TX2TX3_5G_N40_5670 MHz 11340 MHz 17010 MHz								
1	11180	36.00	2.25	38.25	54.00	-15.75	Average	Horizontal

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UTTR-RF-FCCPART15.407-V1.3

2	11340	47.18	2.16	49.34	74.00	-24.66	Peak	Horizontal
3	16770	30.82	8.35	39.17	54.00	-14.83	Average	Horizontal
4	17010	44.04	8.67	52.71	74.00	-21.29	Peak	Horizontal
5	11340	36.52	2.16	38.68	54.00	-15.32	Average	Vertical
6	11340	49.50	2.16	51.66	74.00	-22.34	Peak	Vertical
7	17010	31.05	8.67	39.72	54.00	-14.28	Average	Vertical
8	17010	43.83	8.67	52.50	74.00	-21.50	Peak	Vertical
TX1TX2TX3_5G_N40_5710 MHz 11420 MHz 17130 MHz								
1	11420	32.95	2.10	35.05	54.00	-18.95	Average	Horizontal
2	11420	47.29	2.10	49.39	74.00	-24.61	Peak	Horizontal
3	17130	31.26	8.84	40.10	54.00	-13.90	Average	Horizontal
4	17130	43.44	8.84	52.28	74.00	-21.72	Peak	Horizontal
5	11420	33.91	2.10	36.01	54.00	-17.99	Average	Vertical
6	11420	47.63	2.10	49.73	74.00	-24.27	Peak	Vertical
7	17130	31.33	8.84	40.17	54.00	-13.83	Average	Vertical
8	17130	44.34	8.84	53.18	74.00	-20.82	Peak	Vertical
TX1TX2TX3_5G_N40_5755 MHz 11510 MHz 17265 MHz								
1	11510	34.29	2.05	36.34	54.00	-17.66	Average	Horizontal
2	11510	47.23	2.05	49.28	74.00	-24.72	Peak	Horizontal
3	17265	30.78	9.03	39.81	54.00	-14.19	Average	Horizontal
4	17265	43.96	9.03	52.99	74.00	-21.01	Peak	Horizontal
5	11510	35.09	2.05	37.14	54.00	-16.86	Average	Vertical
6	11510	47.65	2.05	49.70	74.00	-24.30	Peak	Vertical
7	17265	31.11	9.03	40.14	54.00	-13.86	Average	Vertical
8	17265	43.93	9.03	52.96	74.00	-21.04	Peak	Vertical
TX1TX2TX3_5G_N40_5795 MHz 11590 MHz 17385 MHz								
1	11590	33.62	2.07	35.69	54.00	-18.31	Average	Horizontal
2	11590	46.18	2.07	48.25	74.00	-25.75	Peak	Horizontal
3	17385	30.62	9.21	39.83	54.00	-14.17	Average	Horizontal
4	17385	43.55	9.21	52.76	74.00	-21.24	Peak	Horizontal
5	11590	34.77	2.07	36.84	54.00	-17.16	Average	Vertical
6	11590	48.48	2.07	50.55	74.00	-23.45	Peak	Vertical
7	17385	30.71	9.21	39.92	54.00	-14.08	Average	Vertical
8	17385	43.29	9.21	52.50	74.00	-21.50	Peak	Vertical

TX1TX2TX3_5G_AC80_5210 MHz			10420 MHz		15630 MHz			
1	10420	42.62	3.39	46.01	54.00	-7.99	Average	Horizontal
2	10420	59.40	3.39	62.79	74.00	-11.21	Peak	Horizontal
3	15630	31.72	7.48	39.20	54.00	-14.80	Average	Horizontal
4	15630	44.60	7.48	52.08	74.00	-21.92	Peak	Horizontal
5	10420	36.67	3.39	40.06	54.00	-13.94	Average	Vertical
6	10420	52.69	3.39	56.08	74.00	-17.92	Peak	Vertical
7	15630	31.83	7.48	39.31	54.00	-14.69	Average	Vertical
8	15630	43.29	7.48	50.77	74.00	-23.23	Peak	Vertical
TX1TX2TX3_5G_AC80_5290 MHz			10580 MHz		15870 MHz			
1	10580	38.43	3.23	41.66	54.00	-12.34	Average	Horizontal
2	10580	52.32	3.23	55.55	74.00	-18.45	Peak	Horizontal
3	15870	30.90	7.27	38.17	54.00	-15.83	Average	Horizontal
4	15870	43.31	7.27	50.58	74.00	-23.42	Peak	Horizontal
5	10580	44.90	3.23	48.13	54.00	-5.87	Average	Vertical
6	10580	54.92	3.23	58.15	74.00	-15.85	Peak	Vertical
7	15870	30.98	7.27	38.25	54.00	-15.75	Average	Vertical
8	15870	42.23	7.27	49.50	74.00	-24.50	Peak	Vertical
TX1TX2TX3_5G_AC80_5530 MHz			11060 MHz		16590 MHz			
1	11060	37.28	2.32	39.60	54.00	-14.40	Average	Horizontal
2	11060	50.69	2.32	53.01	74.00	-20.99	Peak	Horizontal
3	16590	29.98	8.11	38.09	54.00	-15.91	Average	Horizontal
4	16590	42.32	8.11	50.43	74.00	-23.57	Peak	Horizontal
5	11060	36.17	2.32	38.49	54.00	-15.51	Average	Vertical
6	11060	49.12	2.32	51.44	74.00	-22.56	Peak	Vertical
7	16590	30.25	8.11	38.36	54.00	-15.64	Average	Vertical
8	16590	42.70	8.11	50.81	74.00	-23.19	Peak	Vertical
TX1TX2TX3_5G_AC80_5610 MHz			11220 MHz		16830 MHz			
1	11220	33.15	2.22	35.37	54.00	-18.63	Average	Horizontal
2	11220	47.74	2.22	49.96	74.00	-24.04	Peak	Horizontal
3	16830	31.03	8.43	39.46	54.00	-14.54	Average	Horizontal
4	16830	45.12	8.43	53.55	74.00	-20.45	Peak	Horizontal
5	11220	34.14	2.22	36.36	54.00	-17.64	Average	Vertical
6	11220	49.53	2.22	51.75	74.00	-22.25	Peak	Vertical
7	16830	31.66	8.43	40.09	54.00	-13.91	Average	Vertical
8	16830	45.54	8.43	53.97	74.00	-20.03	Peak	Vertical
TX1TX2TX3_5G_AC80_5690 MHz			11380 MHz		17070 MHz			
1	11380	34.08	2.13	36.21	54.00	-17.79	Average	Horizontal
2	11380	47.09	2.13	49.22	74.00	-24.78	Peak	Horizontal
3	17070	31.31	8.75	40.06	54.00	-13.94	Average	Horizontal
4	17070	44.52	8.75	53.27	74.00	-20.73	Peak	Horizontal
5	11380	35.79	2.13	37.92	54.00	-16.08	Average	Vertical
6	11380	50.87	2.13	53.00	74.00	-21.00	Peak	Vertical
7	17070	33.46	8.75	42.21	54.00	-11.79	Average	Vertical
8	17070	46.82	8.75	55.57	74.00	-18.43	Peak	Vertical
TX1TX2TX3_5G_AC80_5775 MHz			11550 MHz		17325 MHz			
1	11550	33.74	2.06	35.80	54.00	-18.20	Average	Horizontal
2	11550	48.51	2.06	50.57	74.00	-23.43	Peak	Horizontal
3	17325	30.74	9.12	39.86	54.00	-14.14	Average	Horizontal
4	17325	43.12	9.12	52.24	74.00	-21.76	Peak	Horizontal
5	11550	35.13	2.06	37.19	54.00	-16.81	Average	Vertical
6	11550	49.84	2.06	51.90	74.00	-22.10	Peak	Vertical
7	17325	31.42	9.12	40.54	54.00	-13.46	Average	Vertical
8	17325	43.73	9.12	52.85	74.00	-21.15	Peak	Vertical

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UTTR-RF-FCCPART15.407-V1.3

TX1TX2TX3_5G_AC160_5250 MHz			10500 MHz			15750 MHz		
1	10500	37.01	3.40	40.41	54.00	-13.59	Average	Horizontal
2	10500	53.87	3.40	57.27	74.00	-16.73	Peak	Horizontal
3	15750	31.55	7.38	38.93	54.00	-15.07	Average	Horizontal
4	15750	44.28	7.38	51.66	74.00	-22.34	Peak	Horizontal
5	10500	39.04	3.40	42.44	54.00	-11.56	Average	Vertical
6	10500	57.34	3.40	60.74	74.00	-13.26	Peak	Vertical
7	15750	31.62	7.38	39.00	54.00	-15.00	Average	Vertical
8	15750	44.61	7.38	51.99	74.00	-22.01	Peak	Vertical
TX1TX2TX3_5G_AC160_5570 MHz			11140 MHz			16710 MHz		
1	11140	33.56	2.28	35.84	54.00	-18.16	Average	Horizontal
2	11140	48.11	2.28	50.39	74.00	-23.61	Peak	Horizontal
3	16710	30.73	8.28	39.01	54.00	-14.99	Average	Horizontal
4	16710	43.38	8.28	51.66	74.00	-22.34	Peak	Horizontal
5	11140	35.40	2.28	37.68	54.00	-16.32	Average	Vertical
6	11140	50.41	2.28	52.69	74.00	-21.31	Peak	Vertical
7	16710	31.30	8.28	39.58	54.00	-14.42	Average	Vertical
8	16710	43.41	8.28	51.69	74.00	-22.31	Peak	Vertical
TX1TX2TX3_5G_AX20_5180 MHz			10360 MHz			15540 MHz		
1	10360	40.73	3.38	44.11	54.00	-9.89	Average	Horizontal
2	10360	55.89	3.38	59.27	74.00	-14.73	Peak	Horizontal
3	15540	31.57	7.56	39.13	54.00	-14.87	Average	Horizontal
4	15540	44.01	7.56	51.57	74.00	-22.43	Peak	Horizontal
5	10360	45.13	3.38	48.51	54.00	-5.49	Average	Vertical
6	10360	62.38	3.38	65.76	74.00	-8.24	Peak	Vertical
7	15540	31.87	7.56	39.43	54.00	-14.57	Average	Vertical
8	15540	42.98	7.56	50.54	74.00	-23.46	Peak	Vertical
TX1TX2TX3_5G_AX20_5220 MHz			10440 MHz			15660 MHz		
1	10440	45.10	3.38	48.48	54.00	-5.52	Average	Horizontal
2	10440	59.94	3.38	63.32	74.00	-10.68	Peak	Horizontal
3	15660	32.89	7.46	40.35	54.00	-13.65	Average	Horizontal
4	15660	46.13	7.46	53.59	74.00	-20.41	Peak	Horizontal
5	10440	50.86	3.38	54.24	54.00	0.24	Average	Vertical
6	10440	66.89	3.38	70.27	74.00	-3.73	Peak	Vertical
7	15660	34.96	7.46	42.42	54.00	-11.58	Average	Vertical
8	15660	51.67	7.46	59.13	74.00	-14.87	Peak	Vertical
TX1TX2TX3_5G_AX20_5240 MHz			10480 MHz			15720 MHz		
1	10480	41.45	3.39	44.84	54.00	-9.16	Average	Horizontal
2	10480	57.18	3.39	60.57	74.00	-13.43	Peak	Horizontal
3	15720	32.64	7.40	40.04	54.00	-13.96	Average	Horizontal
4	15720	46.79	7.40	54.19	74.00	-19.81	Peak	Horizontal
5	10480	47.24	3.39	50.63	54.00	-3.37	Average	Vertical
6	10480	65.98	3.39	69.37	74.00	-4.63	Peak	Vertical
7	15720	35.15	7.40	42.55	54.00	-11.45	Average	Vertical
8	15720	49.94	7.40	57.34	74.00	-16.66	Peak	Vertical
TX1TX2TX3_5G_AX20_5260 MHz			10520 MHz			15780 MHz		
1	10520	40.43	3.35	43.78	54.00	-10.22	Average	Horizontal
2	10520	58.63	3.35	61.98	74.00	-12.02	Peak	Horizontal
3	15780	32.99	7.35	40.34	54.00	-13.66	Average	Horizontal
4	15780	46.26	7.35	53.61	74.00	-20.39	Peak	Horizontal
5	10520	47.94	3.35	51.29	54.00	-2.71	Average	Vertical
6	10520	67.19	3.35	70.54	74.00	-3.46	Peak	Vertical
7	15780	34.08	7.35	41.43	54.00	-12.57	Average	Vertical
8	15780	52.63	7.35	59.98	74.00	-14.02	Peak	Vertical
TX1TX2TX3_5G_AX20_5300 MHz			10600 MHz			15900 MHz		
1	10600	41.73	3.19	44.92	54.00	-9.08	Average	Horizontal
2	10600	58.35	3.19	61.54	74.00	-12.46	Peak	Horizontal
3	15900	30.38	7.24	37.62	54.00	-16.38	Average	Horizontal
4	15900	42.34	7.24	49.58	74.00	-24.42	Peak	Horizontal

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UTTR-RF-FCCPART15.407-V1.3

5	10600	48.07	3.19	51.26	54.00	-2.74	Average	Vertical
6	10600	68.09	3.19	71.28	74.00	-2.72	Peak	Vertical
7	15900	33.38	7.24	40.62	54.00	-13.38	Average	Vertical
8	15900	47.25	7.24	54.49	74.00	-19.51	Peak	Vertical
TX1TX2TX3_5G_AX20_5320 MHz 10640 MHz 15960 MHz								
1	10640	44.00	3.10	47.10	54.00	-6.90	Average	Horizontal
2	10640	62.99	3.10	66.09	74.00	-7.91	Peak	Horizontal
3	15960	30.64	7.19	37.83	54.00	-16.17	Average	Horizontal
4	15960	44.07	7.19	51.26	74.00	-22.74	Peak	Horizontal
5	10640	48.00	3.10	51.10	54.00	-2.90	Average	Vertical
6	10640	61.86	3.10	64.96	74.00	-9.04	Peak	Vertical
7	15960	31.02	7.19	38.21	54.00	-15.79	Average	Vertical
8	15960	46.79	7.19	53.98	74.00	-20.02	Peak	Vertical
TX1TX2TX3_5G_AX20_5500 MHz 11000 MHz 16500 MHz								
1	11000	38.41	2.36	40.77	54.00	-13.23	Average	Horizontal
2	11000	53.78	2.36	56.14	74.00	-17.86	Peak	Horizontal
3	16500	31.40	8.00	39.40	54.00	-14.60	Average	Horizontal
4	16500	43.08	8.00	51.08	74.00	-22.92	Peak	Horizontal
5	11000	44.70	2.36	47.06	54.00	-6.94	Average	Vertical
6	11000	61.95	2.36	64.31	74.00	-9.69	Peak	Vertical
7	16500	32.15	8.00	40.15	54.00	-13.85	Average	Vertical
8	16500	45.81	8.00	53.81	74.00	-20.19	Peak	Vertical
TX1TX2TX3_5G_AX20_5600 MHz 11200 MHz 16800 MHz								
1	11200	36.50	2.24	38.74	54.00	-15.26	Average	Horizontal
2	11200	50.23	2.24	52.47	74.00	-21.53	Peak	Horizontal
3	16800	30.91	8.39	39.30	54.00	-14.70	Average	Horizontal
4	16800	43.04	8.39	51.43	74.00	-22.57	Peak	Horizontal
5	11200	38.48	2.24	40.72	54.00	-13.28	Average	Vertical
6	11200	55.94	2.24	58.18	74.00	-15.82	Peak	Vertical
7	16800	35.07	8.39	43.46	54.00	-10.54	Average	Vertical
8	16800	54.18	8.39	62.57	74.00	-11.43	Peak	Vertical
TX1TX2TX3_5G_AX20_5700 MHz 11400 MHz 17100 MHz								
1	11400	35.35	2.11	37.46	54.00	-16.54	Average	Horizontal
2	11400	49.04	2.11	51.15	74.00	-22.85	Peak	Horizontal
3	17100	32.38	8.79	41.17	54.00	-12.83	Average	Horizontal
4	17100	45.63	8.79	54.42	74.00	-19.58	Peak	Horizontal
5	11400	35.02	2.11	37.13	54.00	-16.87	Average	Vertical
6	11400	49.92	2.11	52.03	74.00	-21.97	Peak	Vertical
7	17100	32.19	8.79	40.98	54.00	-13.02	Average	Vertical
8	17100	46.35	8.79	55.14	74.00	-18.86	Peak	Vertical
TX1TX2TX3_5G_AX20_5720 MHz 11440 MHz 17160 MHz								
1	11440	34.97	2.09	37.06	54.00	-16.94	Average	Horizontal
2	11440	49.96	2.09	52.05	74.00	-21.95	Peak	Horizontal
3	17160	32.12	8.88	41.00	54.00	-13.00	Average	Horizontal
4	17160	47.55	8.88	56.43	74.00	-17.57	Peak	Horizontal
5	11440	35.00	2.09	37.09	54.00	-16.91	Average	Vertical
6	11440	49.96	2.09	52.05	74.00	-21.95	Peak	Vertical
7	17160	33.24	8.88	42.12	54.00	-11.88	Average	Vertical
8	17160	48.42	8.88	57.30	74.00	-16.70	Peak	Vertical
TX1TX2TX3_5G_AX20_5745 MHz 11490 MHz 17235 MHz								
1	11490	33.40	2.06	35.46	54.00	-18.54	Average	Horizontal
2	11490	48.27	2.06	50.33	74.00	-23.67	Peak	Horizontal
3	17235	31.07	8.99	40.06	54.00	-13.94	Average	Horizontal
4	17235	43.04	8.99	52.03	74.00	-21.97	Peak	Horizontal
5	11490	35.08	2.06	37.14	54.00	-16.86	Average	Vertical
6	11490	49.95	2.06	52.01	74.00	-21.99	Peak	Vertical
7	17235	31.35	8.99	40.34	54.00	-13.66	Average	Vertical
8	17235	45.07	8.99	54.06	74.00	-19.94	Peak	Vertical
TX1TX2TX3_5G_AX20_5785 MHz 11570 MHz 17355 MHz								

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1	11570	34.17	2.05	36.22	54.00	-17.78	Average	Horizontal
2	11570	48.15	2.05	50.20	74.00	-23.80	Peak	Horizontal
3	17355	31.76	9.16	40.92	54.00	-13.08	Average	Horizontal
4	17355	47.51	9.16	56.67	74.00	-17.33	Peak	Horizontal
5	11570	35.21	2.05	37.26	54.00	-16.74	Average	Vertical
6	11570	50.07	2.05	52.12	74.00	-21.88	Peak	Vertical
7	17355	32.60	9.16	41.76	54.00	-12.24	Average	Vertical
8	17355	46.14	9.16	55.30	74.00	-18.70	Peak	Vertical
TX1TX2TX3_5G_AX20_5825 MHz 11650 MHz 17475 MHz								
1	11650	34.83	2.08	36.91	54.00	-17.09	Average	Horizontal
2	11650	50.08	2.08	52.16	74.00	-21.84	Peak	Horizontal
3	17475	31.75	9.33	41.08	54.00	-12.92	Average	Horizontal
4	17475	44.82	9.33	54.15	74.00	-19.85	Peak	Horizontal
5	11650	35.39	2.08	37.47	54.00	-16.53	Average	Vertical
6	11650	51.16	2.08	53.24	74.00	-20.76	Peak	Vertical
7	17475	32.30	9.33	41.63	54.00	-12.37	Average	Vertical
8	17475	44.61	9.33	53.94	74.00	-20.06	Peak	Vertical
TX1TX2TX3_5G_AX40_5190 MHz 10380 MHz 15570 MHz								
1	10380	33.87	3.38	37.25	54.00	-16.75	Average	Horizontal
2	10380	45.84	3.38	49.22	74.00	-24.78	Peak	Horizontal
3	15570	30.09	7.54	37.63	54.00	-16.37	Average	Horizontal
4	15570	41.60	7.54	49.14	74.00	-24.86	Peak	Horizontal
5	10380	40.81	3.38	44.19	54.00	-9.81	Average	Vertical
6	10380	55.60	3.38	58.98	74.00	-15.02	Peak	Vertical
7	15570	30.55	7.54	38.09	54.00	-15.91	Average	Vertical
8	15570	41.04	7.54	48.58	74.00	-25.42	Peak	Vertical
TX1TX2TX3_5G_AX40_5230 MHz 10460 MHz 15690 MHz								
1	10460	34.88	3.40	38.28	54.00	-15.72	Average	Horizontal
2	10460	49.09	3.40	52.49	74.00	-21.51	Peak	Horizontal
3	15690	30.24	7.42	37.66	54.00	-16.34	Average	Horizontal
4	15690	41.85	7.42	49.27	74.00	-24.73	Peak	Horizontal
5	10460	39.72	3.40	43.12	54.00	-10.88	Average	Vertical
6	10460	53.60	3.40	57.00	74.00	-17.00	Peak	Vertical
7	15690	31.03	7.42	38.45	54.00	-15.55	Average	Vertical
8	15690	41.63	7.42	49.05	74.00	-24.95	Peak	Vertical
TX1TX2TX3_5G_AX40_5270 MHz 10540 MHz 15810 MHz								
1	10540	35.86	3.30	39.16	54.00	-14.84	Average	Horizontal
2	10540	47.75	3.30	51.05	74.00	-22.95	Peak	Horizontal
3	15810	29.76	7.33	37.09	54.00	-16.91	Average	Horizontal
4	15810	41.28	7.33	48.61	74.00	-25.39	Peak	Horizontal
5	10540	41.95	3.30	45.25	54.00	-8.75	Average	Vertical
6	10540	55.98	3.30	59.28	74.00	-14.72	Peak	Vertical
7	15810	30.09	7.33	37.42	54.00	-16.58	Average	Vertical
8	15810	41.03	7.33	48.36	74.00	-25.64	Peak	Vertical
TX1TX2TX3_5G_AX40_5310 MHz 10620 MHz 15930 MHz								
1	10620	35.03	3.14	38.17	54.00	-15.83	Average	Horizontal
2	10620	49.22	3.14	52.36	74.00	-21.64	Peak	Horizontal
3	15930	29.40	7.21	36.61	54.00	-17.39	Average	Horizontal
4	15930	41.37	7.21	48.58	74.00	-25.42	Peak	Horizontal
5	10620	40.30	3.14	43.44	54.00	-10.56	Average	Vertical
6	10620	53.16	3.14	56.30	74.00	-17.70	Peak	Vertical
7	15930	29.49	7.21	36.70	54.00	-17.30	Average	Vertical
8	15930	40.49	7.21	47.70	74.00	-26.30	Peak	Vertical
TX1TX2TX3_5G_AX40_5510 MHz 11020 MHz 16530 MHz								
1	11020	39.12	2.35	41.47	54.00	-12.53	Average	Horizontal
2	11020	54.88	2.35	57.23	74.00	-16.77	Peak	Horizontal
3	16530	32.44	8.04	40.48	54.00	-13.52	Average	Horizontal
4	16530	44.64	8.04	52.68	74.00	-21.32	Peak	Horizontal

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5	11020	41.32	2.35	43.67	54.00	-10.33	Average	Vertical
6	11020	57.29	2.35	59.64	74.00	-14.36	Peak	Vertical
7	16530	32.25	8.04	40.29	54.00	-13.71	Average	Vertical
8	16530	45.88	8.04	53.92	74.00	-20.08	Peak	Vertical
TX1TX2TX3 5G AX40 5590 MHz 11180 MHz 16770 MHz								
1	11180	38.26	2.25	40.51	54.00	-13.49	Average	Horizontal
2	11180	50.99	2.25	53.24	74.00	-20.76	Peak	Horizontal
3	16770	31.43	8.35	39.78	54.00	-14.22	Average	Horizontal
4	16770	45.59	8.35	53.94	74.00	-20.06	Peak	Horizontal
5	11180	37.96	2.25	40.21	54.00	-13.79	Average	Vertical
6	11180	51.29	2.25	53.54	74.00	-20.46	Peak	Vertical
7	16770	34.62	8.35	42.97	54.00	-11.03	Average	Vertical
8	16770	49.94	8.35	58.29	74.00	-15.71	Peak	Vertical
TX1TX2TX3 5G AX40 5670 MHz 11340 MHz 17010 MHz								
1	11340	35.77	2.16	37.93	54.00	-16.07	Average	Horizontal
2	11340	49.35	2.16	51.51	74.00	-22.49	Peak	Horizontal
3	17010	32.48	8.67	41.15	54.00	-12.85	Average	Horizontal
4	17010	45.65	8.67	54.32	74.00	-19.68	Peak	Horizontal
5	11340	37.38	2.16	39.54	54.00	-14.46	Average	Vertical
6	11340	51.09	2.16	53.25	74.00	-20.75	Peak	Vertical
7	17010	34.97	8.67	43.64	54.00	-10.36	Average	Vertical
8	17010	49.93	8.67	58.60	74.00	-15.40	Peak	Vertical
TX1TX2TX3 5G AX40 5710 MHz 11420 MHz 17130 MHz								
1	11420	34.40	2.10	36.50	54.00	-17.50	Average	Horizontal
2	11420	49.62	2.10	51.72	74.00	-22.28	Peak	Horizontal
3	17130	33.46	8.84	42.30	54.00	-11.70	Average	Horizontal
4	17130	48.41	8.84	57.25	74.00	-16.75	Peak	Horizontal
5	11420	35.53	2.10	37.63	54.00	-16.37	Average	Vertical
6	11420	49.22	2.10	51.32	74.00	-22.68	Peak	Vertical
7	17130	32.63	8.84	41.47	54.00	-12.53	Average	Vertical
8	17130	47.75	8.84	56.59	74.00	-17.41	Peak	Vertical
TX1TX2TX3 5G AX40 5755 MHz 11510 MHz 17265 MHz								
1	11510	35.02	2.05	37.07	54.00	-16.93	Average	Horizontal
2	11510	49.86	2.05	51.91	74.00	-22.09	Peak	Horizontal
3	17265	32.07	9.03	41.10	54.00	-12.90	Average	Horizontal
4	17265	44.45	9.03	53.48	74.00	-20.52	Peak	Horizontal
5	11510	37.77	2.05	39.82	54.00	-14.18	Average	Vertical
6	11510	50.62	2.05	52.67	74.00	-21.33	Peak	Vertical
7	17265	33.43	9.03	42.46	54.00	-11.54	Average	Vertical
8	17265	47.64	9.03	56.67	74.00	-17.33	Peak	Vertical
TX1TX2TX3 5G AX40 5795 MHz 11590 MHz 17385 MHz								
1	11590	35.29	2.07	37.36	54.00	-16.64	Average	Horizontal
2	11590	49.15	2.07	51.22	74.00	-22.78	Peak	Horizontal
3	17385	32.08	9.21	41.29	54.00	-12.71	Average	Horizontal
4	17385	44.41	9.21	53.62	74.00	-20.38	Peak	Horizontal
5	11590	37.55	2.07	39.62	54.00	-14.38	Average	Vertical
6	11590	52.59	2.07	54.66	74.00	-19.34	Peak	Vertical
7	17385	33.43	9.21	42.64	54.00	-11.36	Average	Vertical
8	17385	47.62	9.21	56.83	74.00	-17.17	Peak	Vertical
TX1TX2TX3 5G AX80 5210 MHz 10420 MHz 15630 MHz								
1	10420	43.33	3.39	46.72	54.00	-7.28	Average	Horizontal
2	10420	55.85	3.39	59.24	74.00	-14.76	Peak	Horizontal
3	15630	32.01	7.48	39.49	54.00	-14.51	Average	Horizontal
4	15630	44.56	7.48	52.04	74.00	-21.96	Peak	Horizontal
5	10420	41.51	3.39	44.90	54.00	-9.10	Average	Vertical
6	10420	53.79	3.39	57.18	74.00	-16.82	Peak	Vertical
7	15630	32.19	7.48	39.67	54.00	-14.33	Average	Vertical
8	15630	44.08	7.48	51.56	74.00	-22.44	Peak	Vertical
TX1TX2TX3 5G AX80 5290 MHz 10580 MHz 15870 MHz								

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1	10580	43.24	3.23	46.47	54.00	-7.53	Average	Horizontal
2	10580	57.76	3.23	60.99	74.00	-13.01	Peak	Horizontal
3	15870	31.38	7.27	38.65	54.00	-15.35	Average	Horizontal
4	15870	43.42	7.27	50.69	74.00	-23.31	Peak	Horizontal
5	10580	43.43	3.23	46.66	54.00	-7.34	Average	Vertical
6	10580	56.81	3.23	60.04	74.00	-13.96	Peak	Vertical
7	15870	31.61	7.27	38.88	54.00	-15.12	Average	Vertical
8	15870	44.01	7.27	51.28	74.00	-22.72	Peak	Vertical

TX1TX2TX3	5G_AX80	5530 MHz	11060 MHz	16590 MHz				
1	11060	38.62	2.32	40.94	54.00	-13.06	Average	Horizontal
2	11060	50.61	2.32	52.93	74.00	-21.07	Peak	Horizontal
3	16590	32.16	8.11	40.27	54.00	-13.73	Average	Horizontal
4	16590	44.79	8.11	52.90	74.00	-21.10	Peak	Horizontal
5	11060	38.62	2.32	40.94	54.00	-13.06	Average	Horizontal
6	11060	54.47	2.32	56.79	74.00	-17.21	Peak	Vertical
7	16590	32.16	8.11	40.27	54.00	-13.73	Average	Horizontal
8	16590	45.94	8.11	54.05	74.00	-19.95	Peak	Vertical

TX1TX2TX3	5G_AX80	5610 MHz	11220 MHz	16830 MHz				
1	11220	34.77	2.22	36.99	54.00	-17.01	Average	Horizontal
2	11220	48.51	2.22	50.73	74.00	-23.27	Peak	Horizontal
3	16830	31.47	8.43	39.90	54.00	-14.10	Average	Horizontal
4	16830	44.09	8.43	52.52	74.00	-21.48	Peak	Horizontal
5	11220	34.72	2.22	36.94	54.00	-17.06	Average	Vertical
6	11220	48.93	2.22	51.15	74.00	-22.85	Peak	Vertical
7	16830	32.20	8.43	40.63	54.00	-13.37	Average	Vertical
8	16830	46.72	8.43	55.15	74.00	-18.85	Peak	Vertical

TX1TX2TX3	5G_AX80	5690 MHz	11380 MHz	17070 MHz				
1	11380	34.11	2.13	36.24	54.00	-17.76	Average	Horizontal
2	11380	46.76	2.13	48.89	74.00	-25.11	Peak	Horizontal
3	17070	31.35	8.75	40.10	54.00	-13.90	Average	Horizontal
4	17070	43.22	8.75	51.97	74.00	-22.03	Peak	Horizontal
5	11380	36.09	2.13	38.22	54.00	-15.78	Average	Vertical
6	11380	50.20	2.13	52.33	74.00	-21.67	Peak	Vertical
7	17070	34.73	8.75	43.48	54.00	-10.52	Average	Vertical
8	17070	47.44	8.75	56.19	74.00	-17.81	Peak	Vertical

TX1TX2TX3	5G_AX80	5775 MHz	11550 MHz	17325 MHz				
1	11550	34.00	2.06	36.06	54.00	-17.94	Average	Horizontal
2	11550	46.23	2.06	48.29	74.00	-25.71	Peak	Horizontal
3	17325	31.06	9.12	40.18	54.00	-13.82	Average	Horizontal
4	17325	43.59	9.12	52.71	74.00	-21.29	Peak	Horizontal
5	11550	34.03	2.06	36.09	54.00	-17.91	Average	Vertical
6	11550	45.81	2.06	47.87	74.00	-26.13	Peak	Vertical
7	17325	31.57	9.12	40.69	54.00	-13.31	Average	Vertical
8	17325	44.48	9.12	53.60	74.00	-20.40	Peak	Vertical

TX1TX2TX3	5G_AX160	5250 MHz	10500 MHz	15750 MHz				
1	10500	38.44	3.40	41.84	54.00	-12.16	Average	Horizontal
2	10500	51.30	3.40	54.70	74.00	-19.30	Peak	Horizontal
3	15750	31.70	7.38	39.08	54.00	-14.92	Average	Horizontal
4	15750	44.65	7.38	52.03	74.00	-21.97	Peak	Horizontal
5	10500	40.23	3.40	43.63	54.00	-10.37	Average	Vertical
6	10500	56.67	3.40	60.07	74.00	-13.93	Peak	Vertical
7	15750	31.96	7.38	39.34	54.00	-14.66	Average	Vertical
8	15750	45.11	7.38	52.49	74.00	-21.51	Peak	Vertical

TX1	TX2	TX3	5G_AX160	5570 MHz	11140 MHz	16710 MHz				
1			11140	34.37	2.28	36.65	54.00	-17.35	Average	Horizontal
2			11140	47.33	2.28	49.61	74.00	-24.39	Peak	Horizontal
3			16710	31.14	8.28	39.42	54.00	-14.58	Average	Horizontal
4			16710	43.48	8.28	51.76	74.00	-22.24	Peak	Horizontal
5			11140	36.66	2.28	38.94	54.00	-15.06	Average	Vertical
6			11140	50.90	2.28	53.18	74.00	-20.82	Peak	Vertical
7			16710	31.49	8.28	39.77	54.00	-14.23	Average	Vertical
8			16710	43.48	8.28	51.76	74.00	-22.24	Peak	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Limit - Result
4. For Radiated Emission 18GHz to 40GHz, there was not any unwanted emission detected.
5. Radiated emissions outside the restricted bands comply with the -27dBm limit

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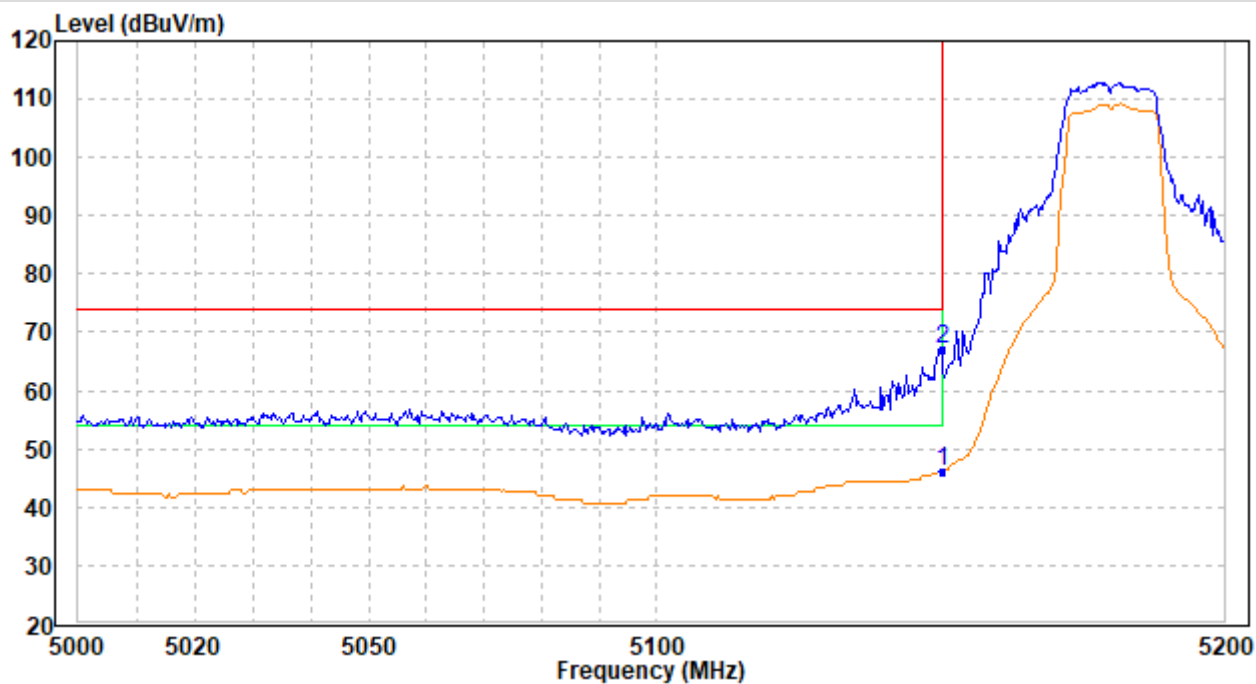
UTTR-RF-FCCPART15.407-V1.3

Band Edge Measurements (Radiated)

Test Channel: TX1_5G_A_5180

Ant Polar:

Horizontal

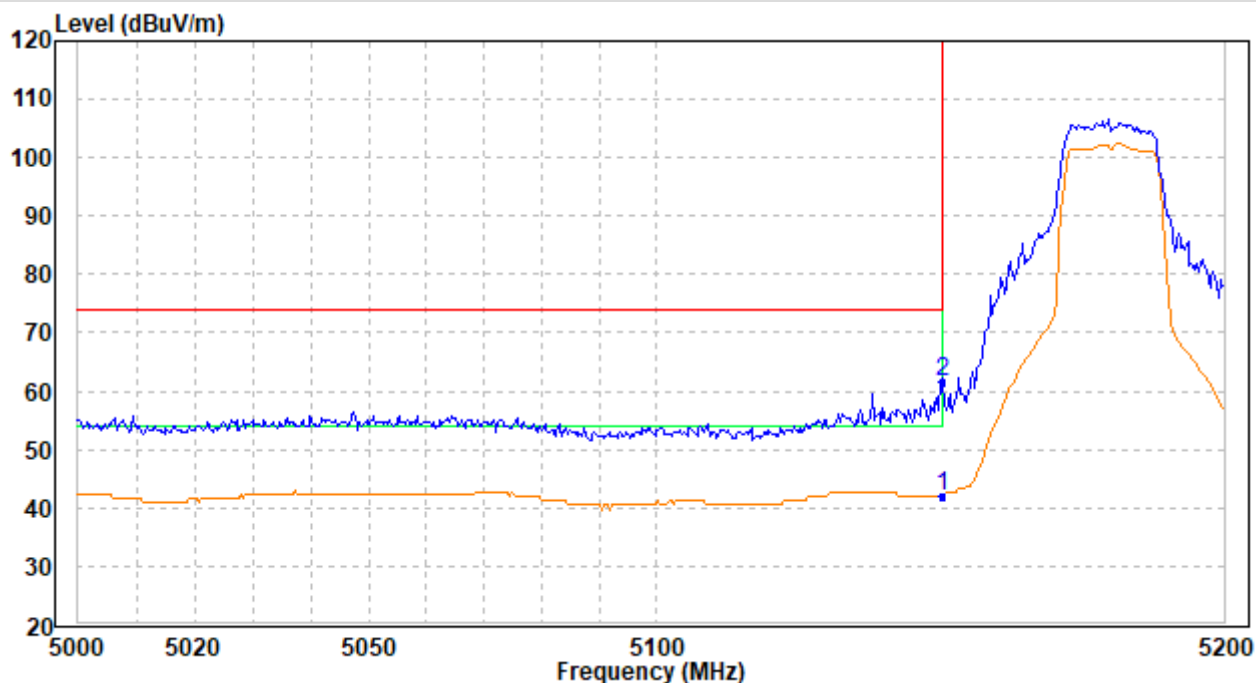


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	67.11	74.00	46.21	54.00	PASS

Test Channel: TX1_5G_A_5180

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	61.75	74.00	42.04	54.00	PASS

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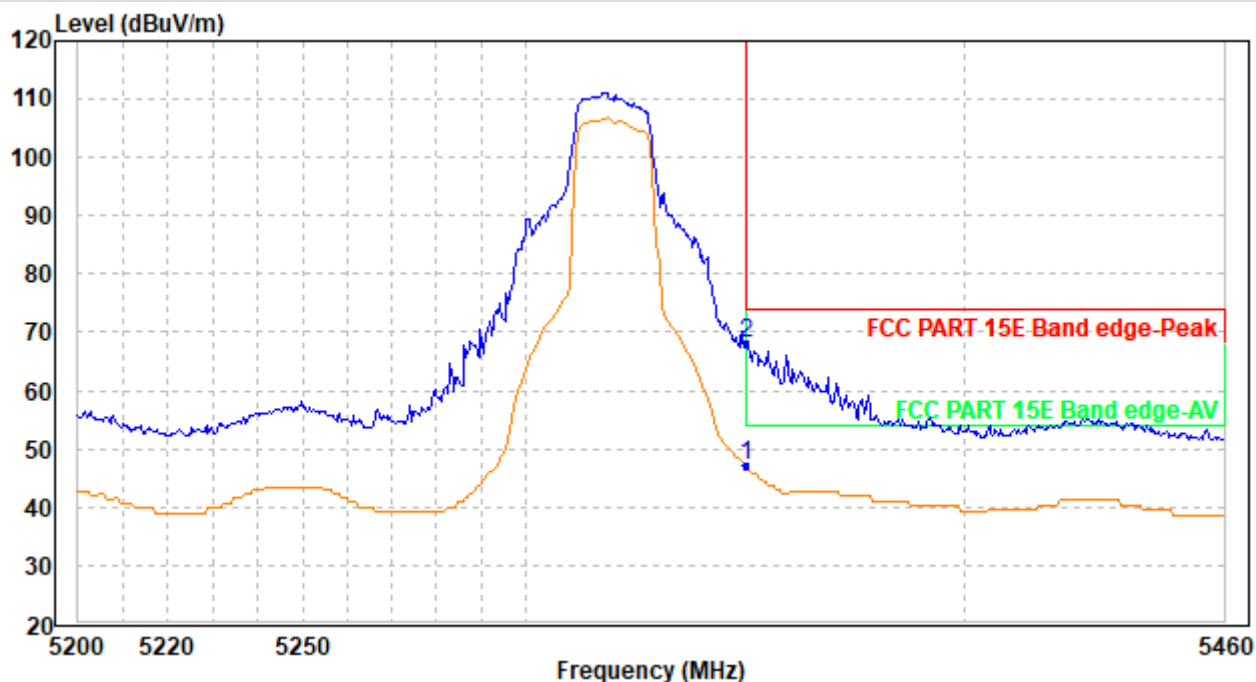
<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

Test Channel: TX1_5G_A_5320

Ant Polar:

Horizontal

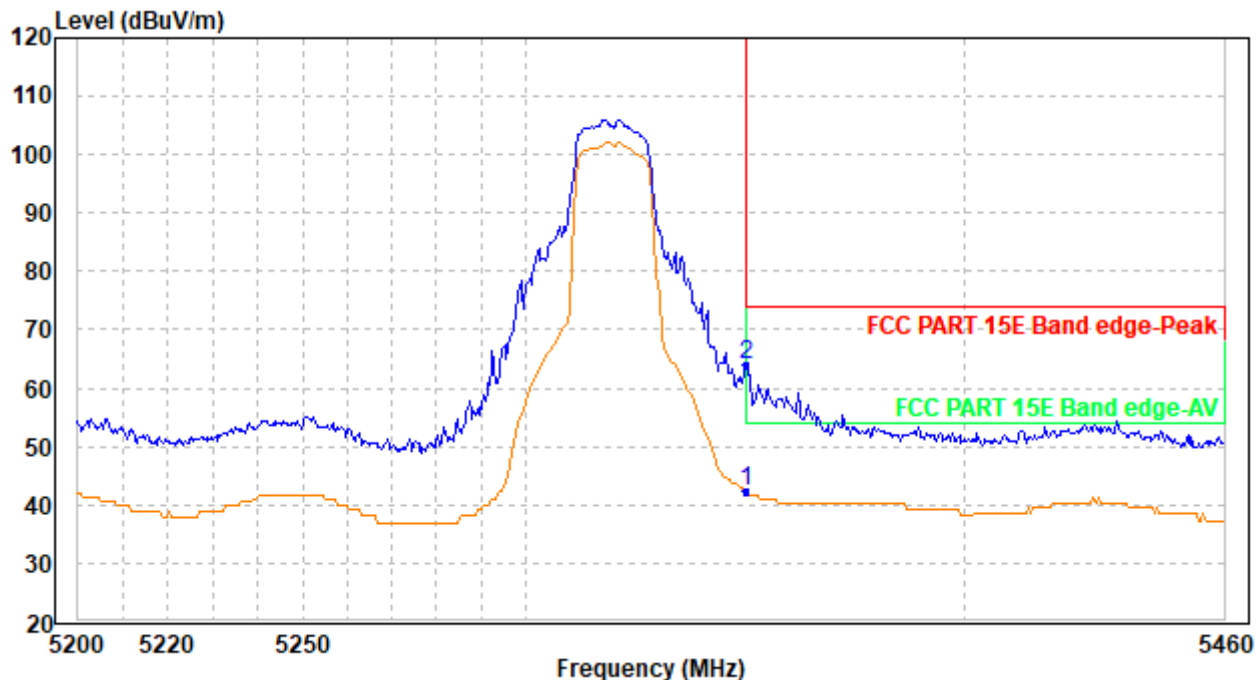


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5350.000	68.18	74.00	47.06	54.00	PASS

Test Channel: TX1_5G_A_5320

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5350.000	64.02	74.00	42.49	54.00	PASS

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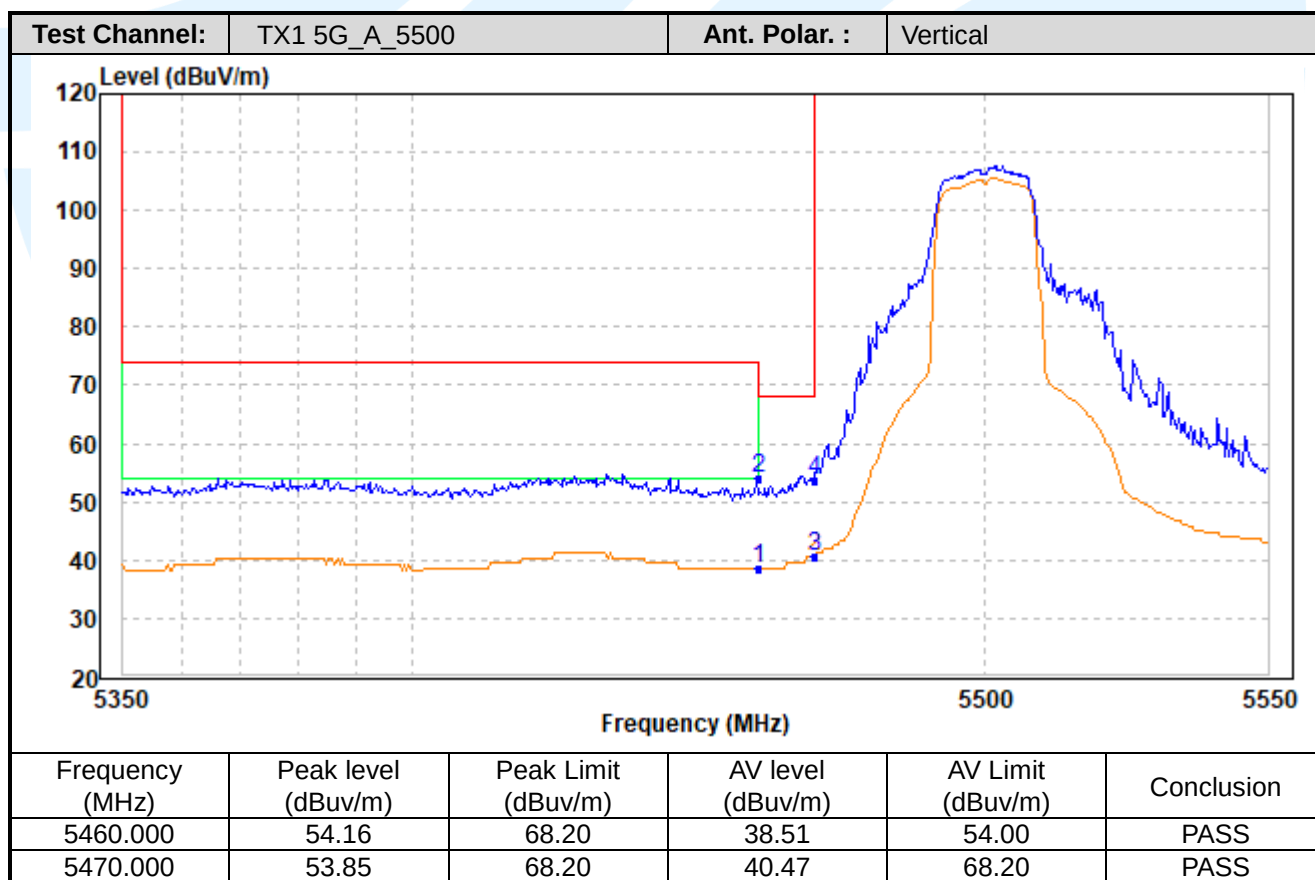
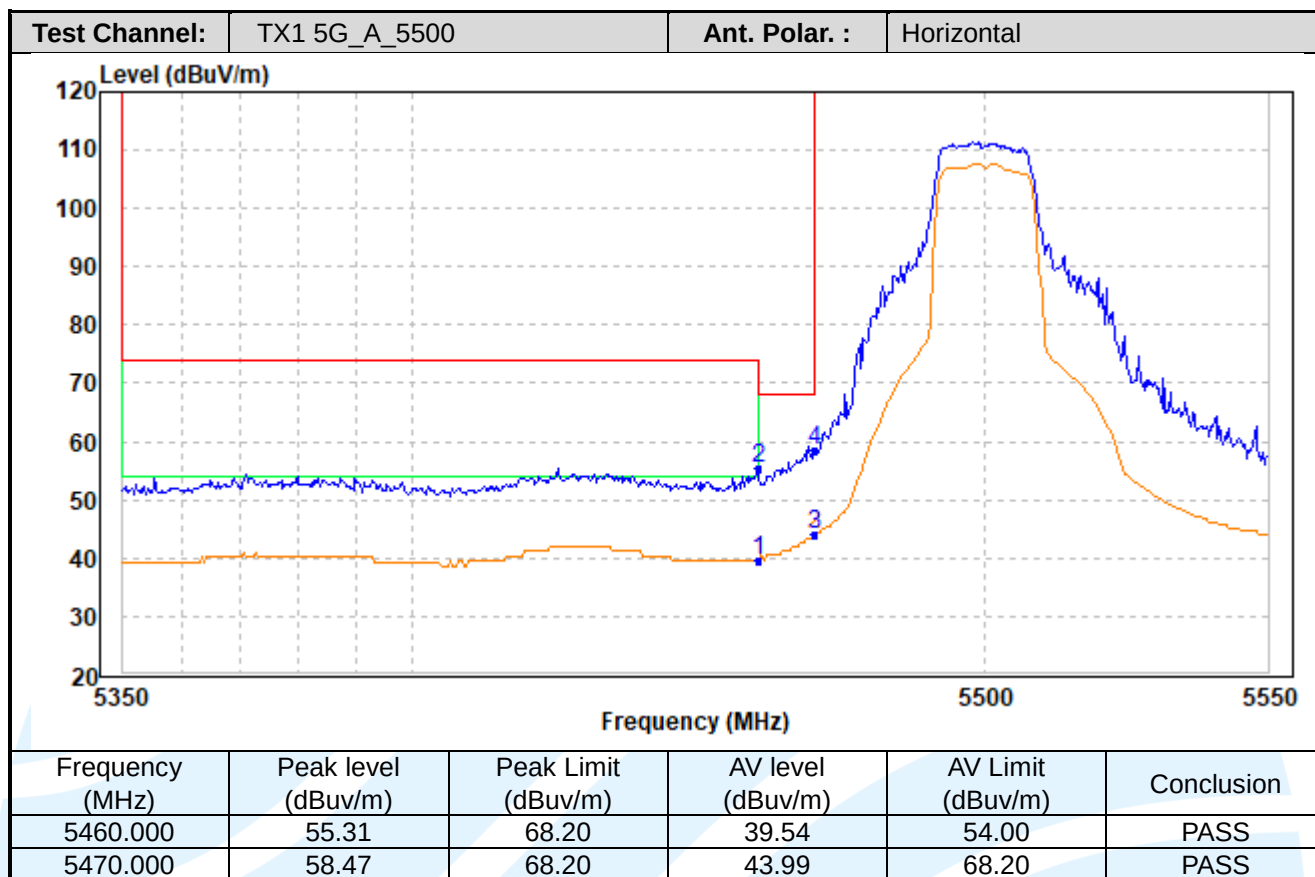
Tel: +86-755-28230888

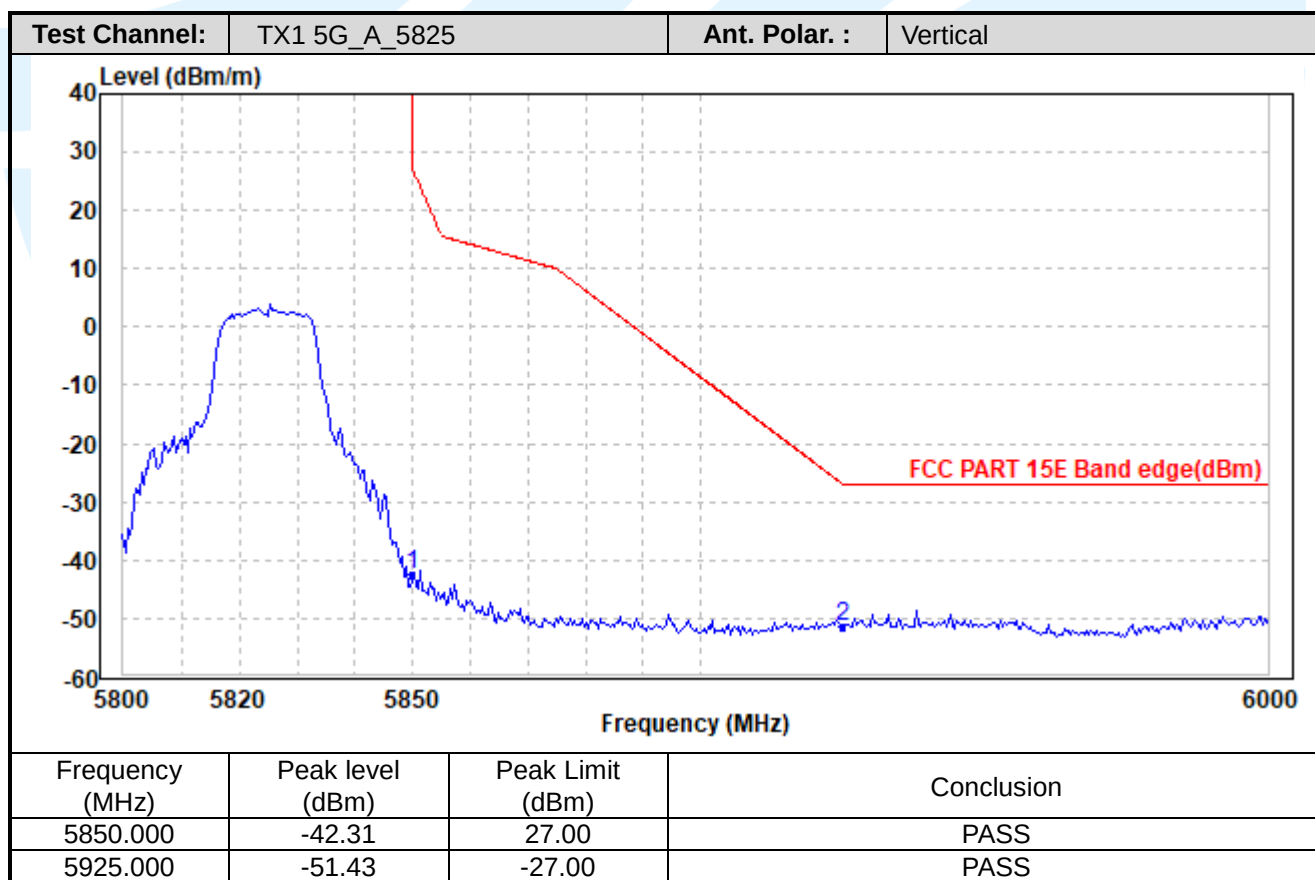
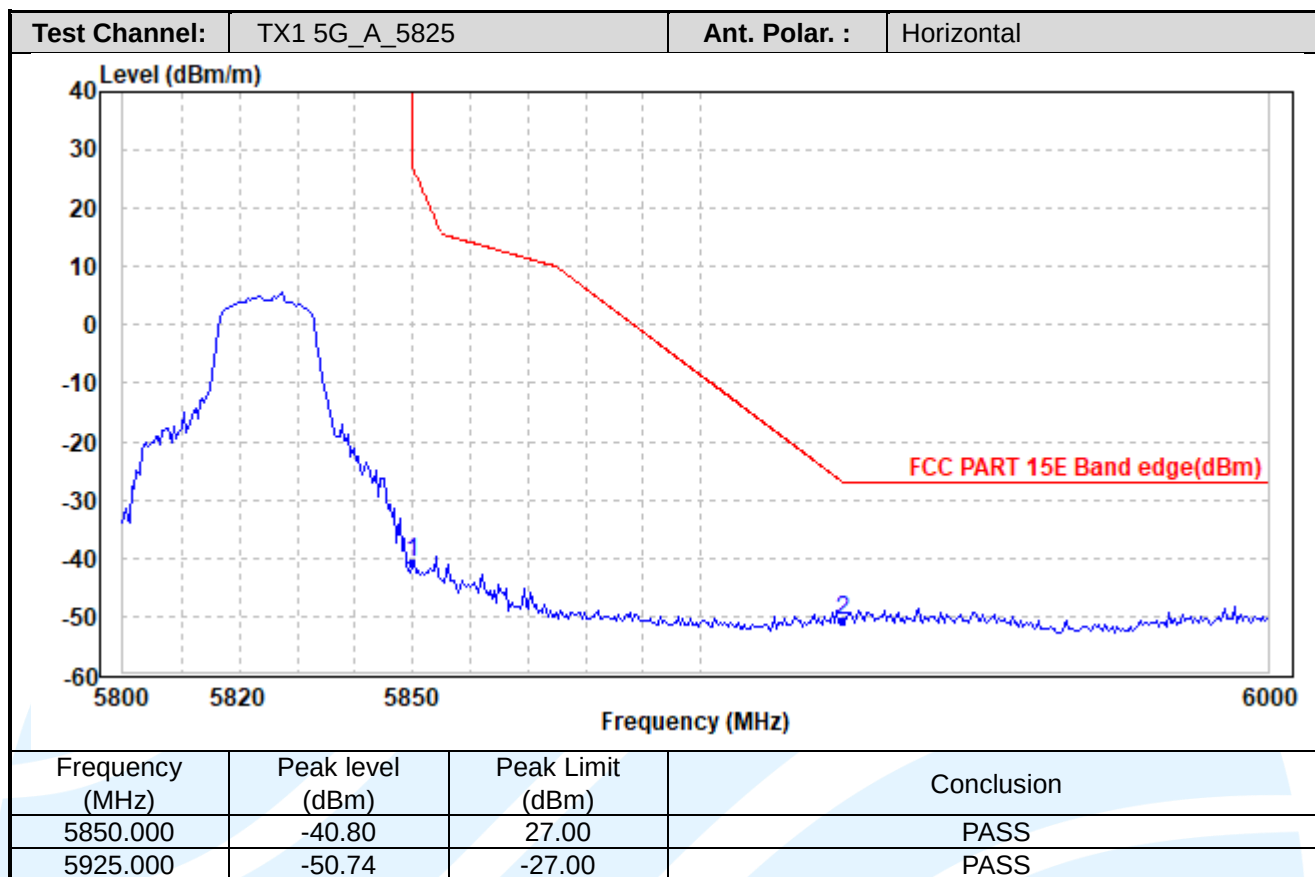
Fax: +86-755-28230886

E-mail: info@uttlab.com

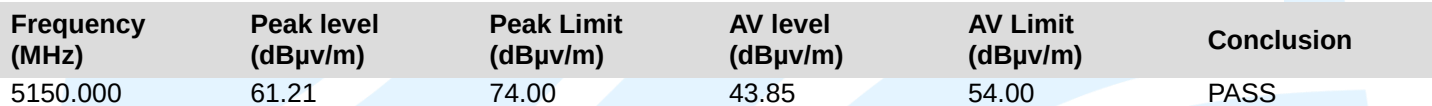
<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

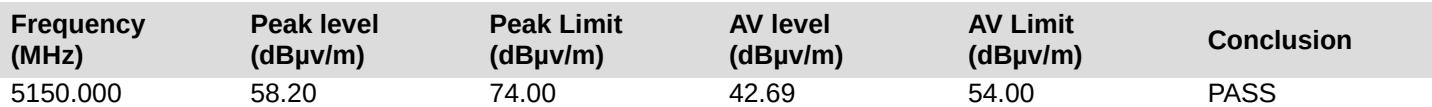




Horizontal



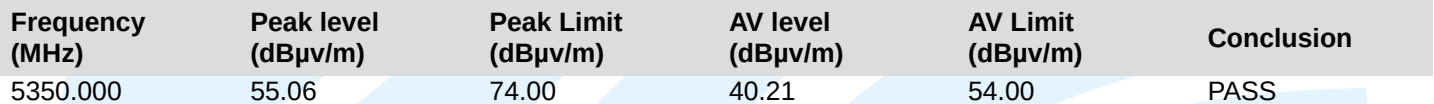
Vertical



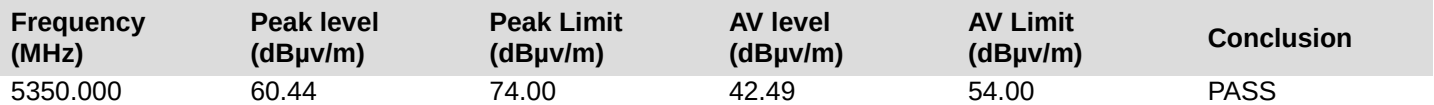
<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

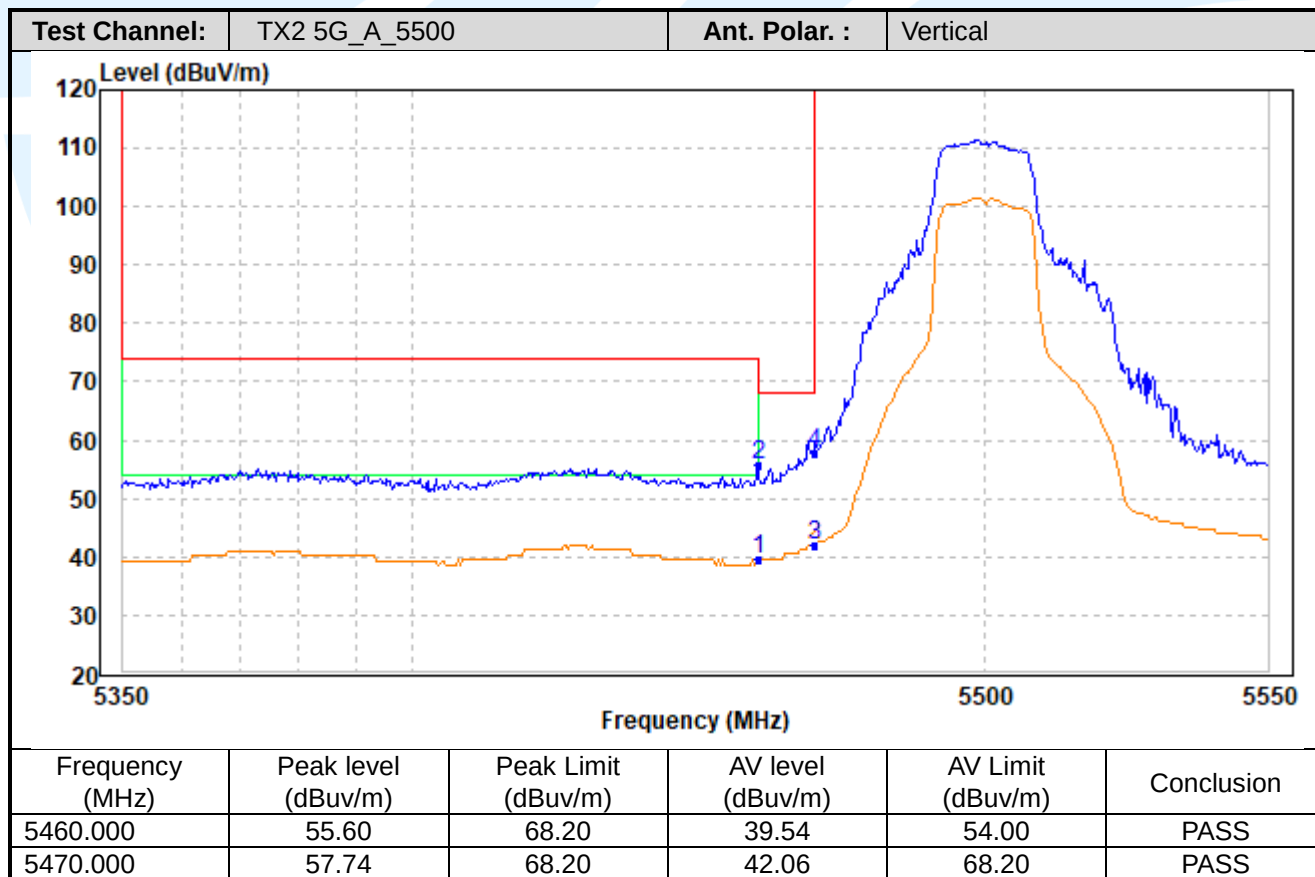
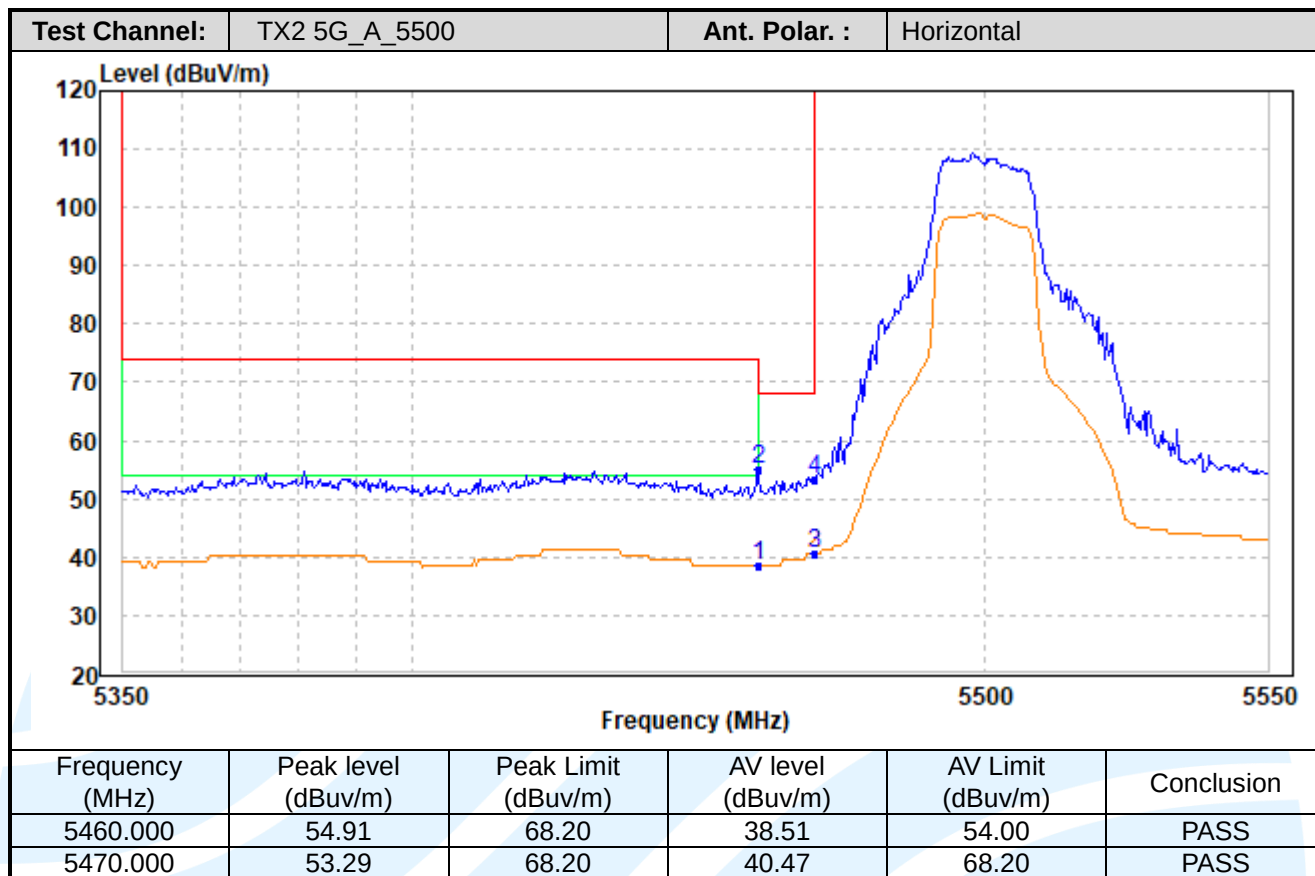
Horizontal



Vertical



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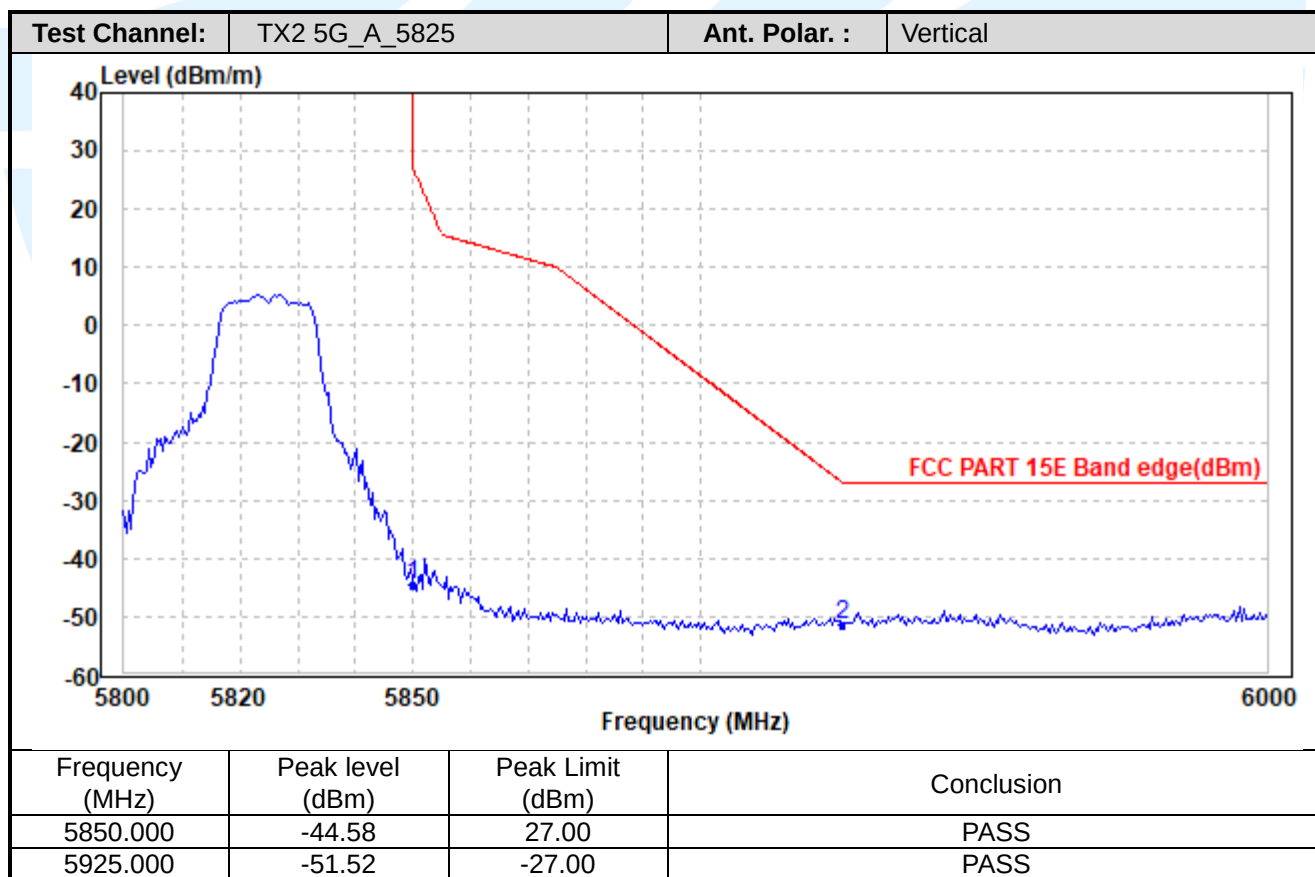
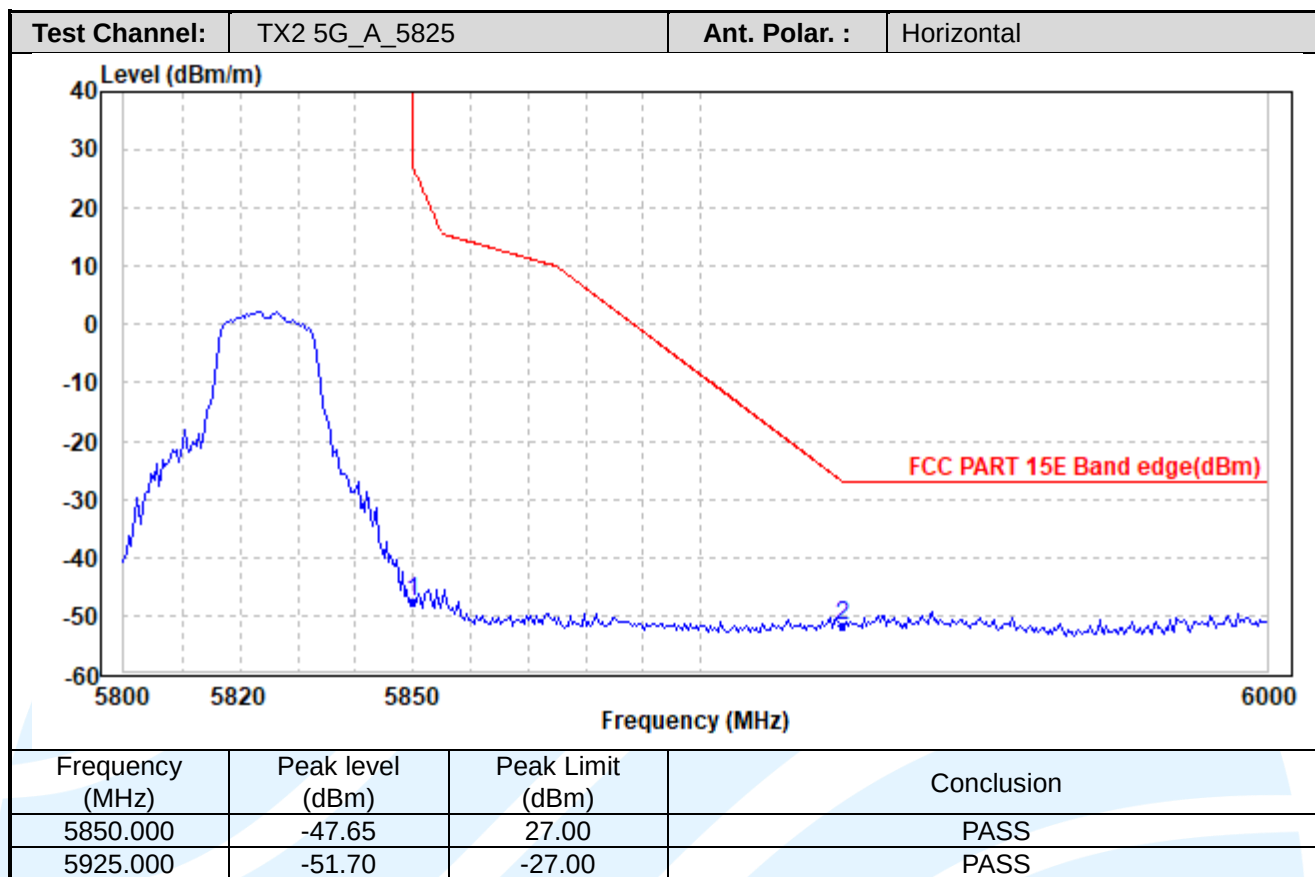
Tel: +86-755-28230888

Fax: +86-755-28230886

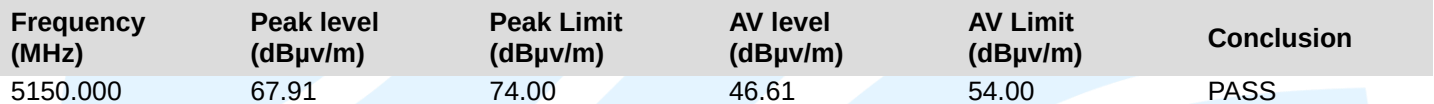
E-mail: info@uttlab.com

<http://www.uttlab.com>

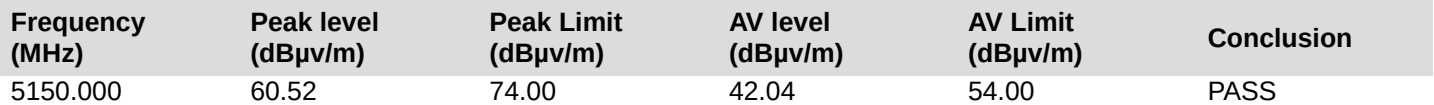
UTTR-RF-FCCPART15.407-V1.3



Horizontal



Vertical



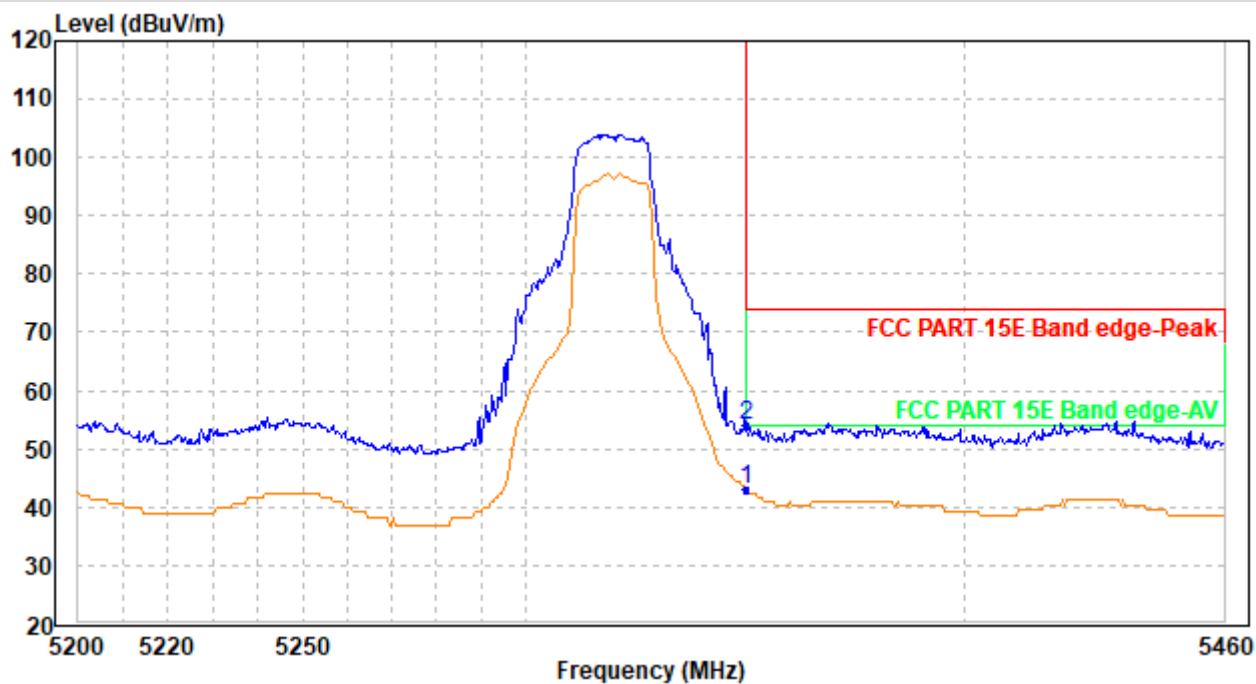
<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

Test Channel: TX3_5G_A_5320

Ant Polar:

Horizontal

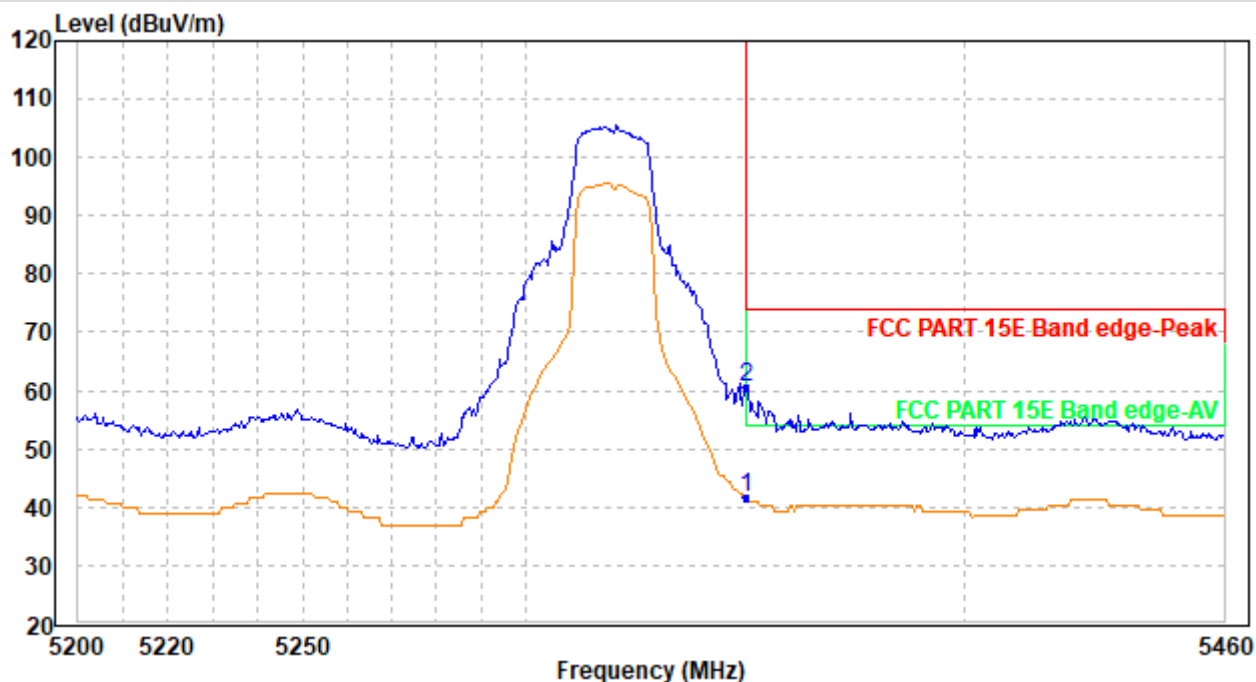


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5350.000	54.16	74.00	43.13	54.00	PASS

Test Channel: TX3_5G_A_5320

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5350.000	60.62	74.00	41.79	54.00	PASS

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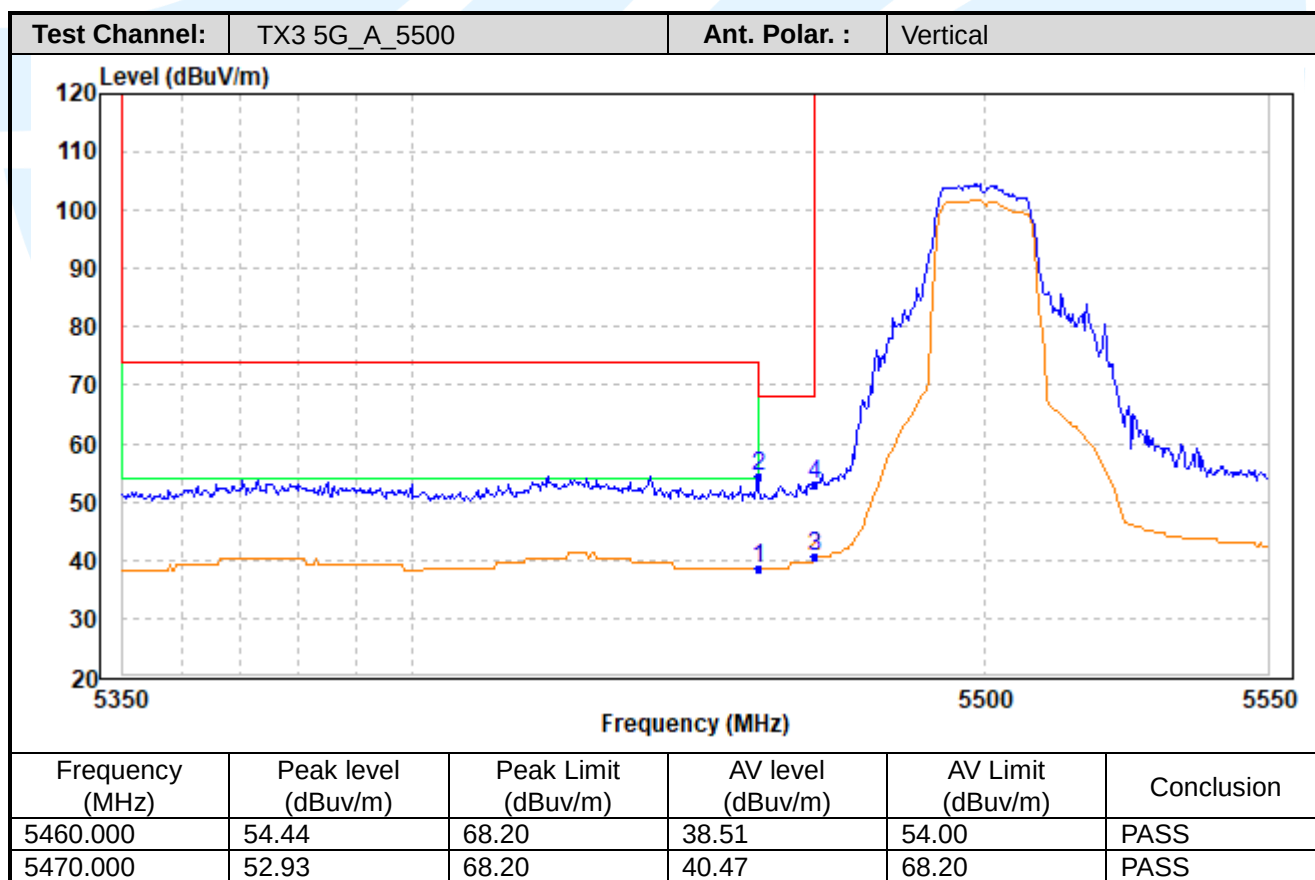
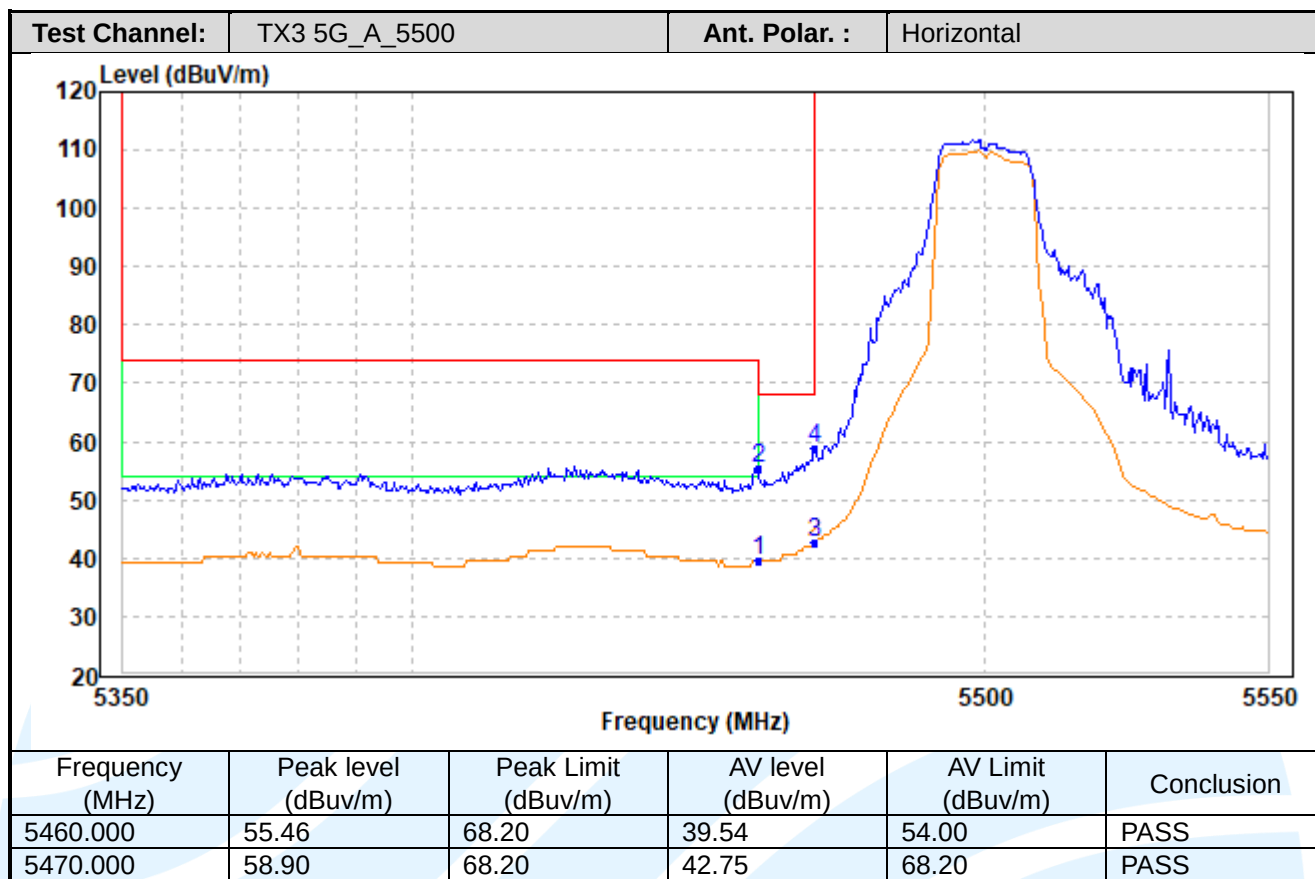
Tel: +86-755-28230888

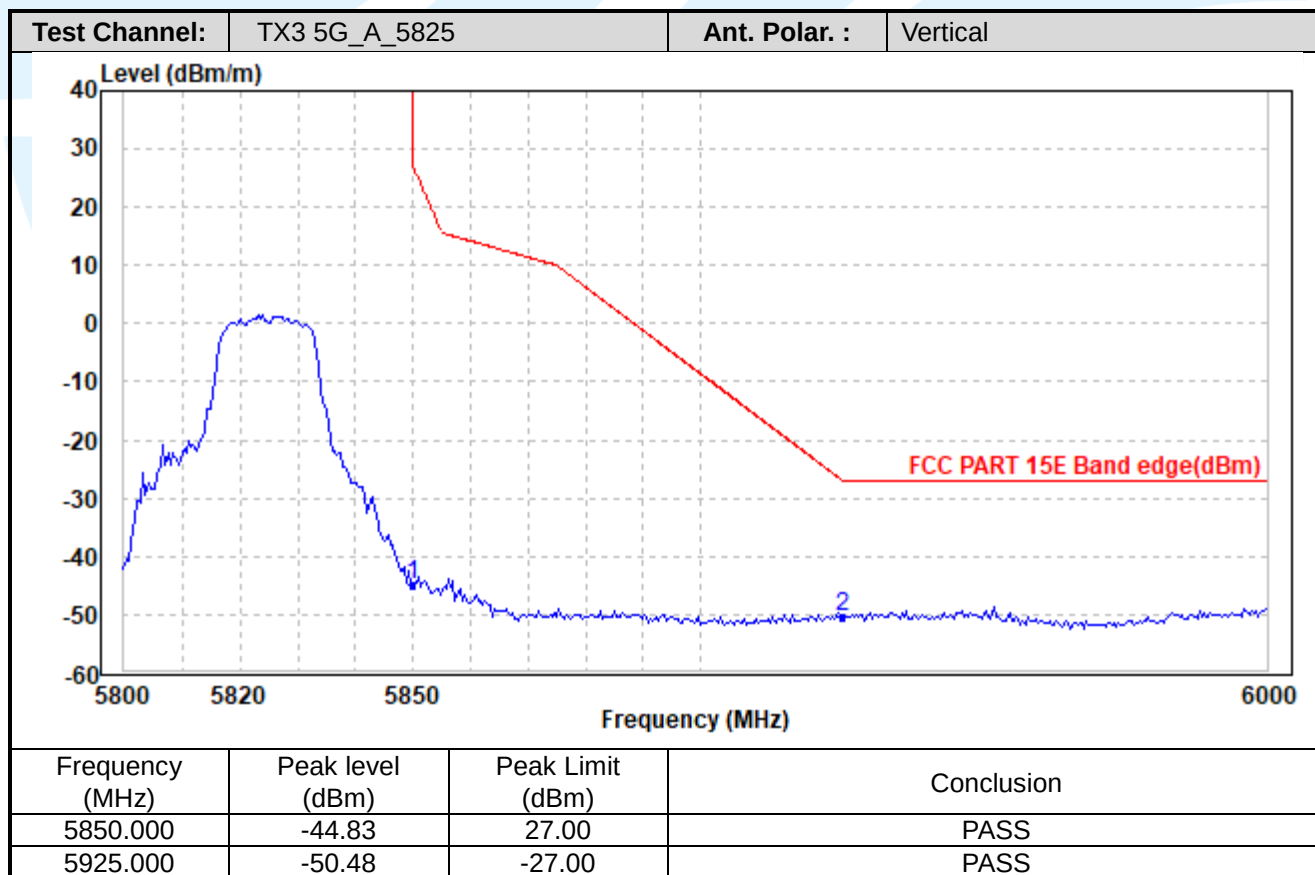
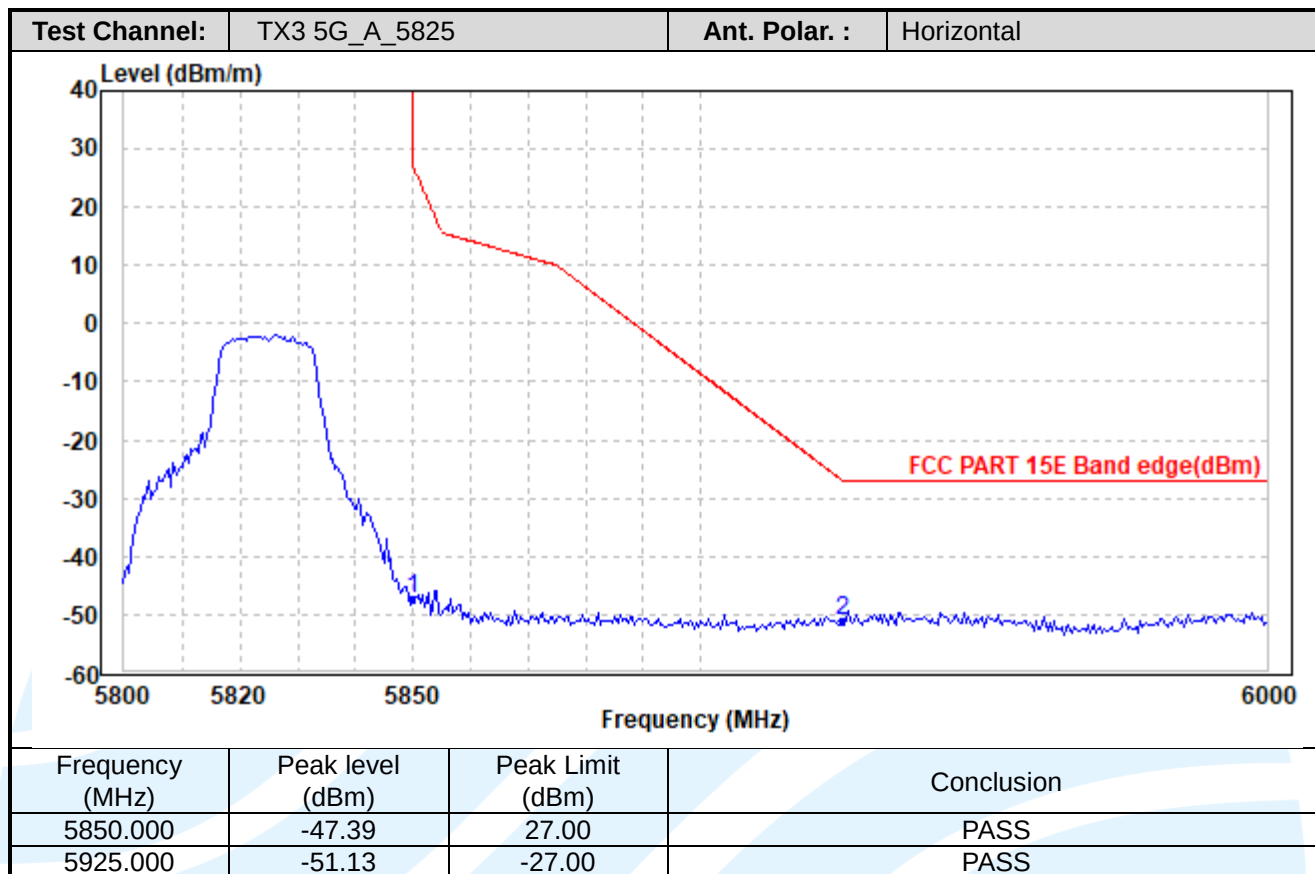
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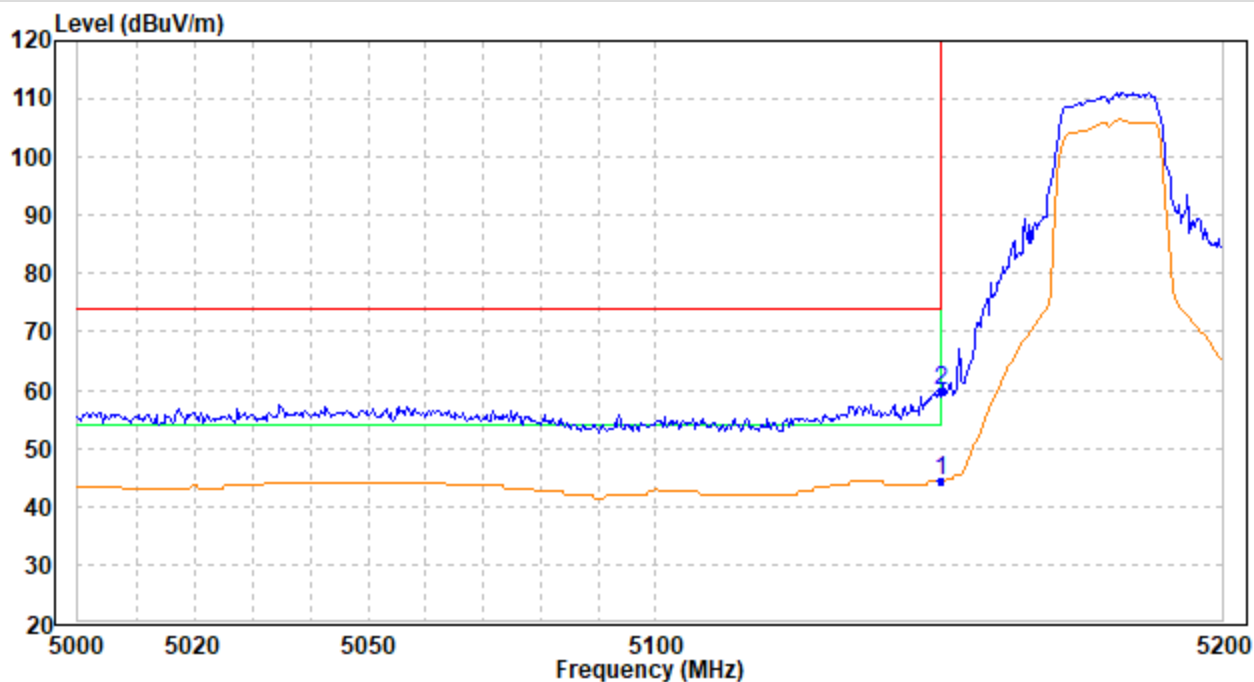
<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

Test Channel: TX1TX2TX3_5G_N20_5180

Ant Polar:

Horizontal

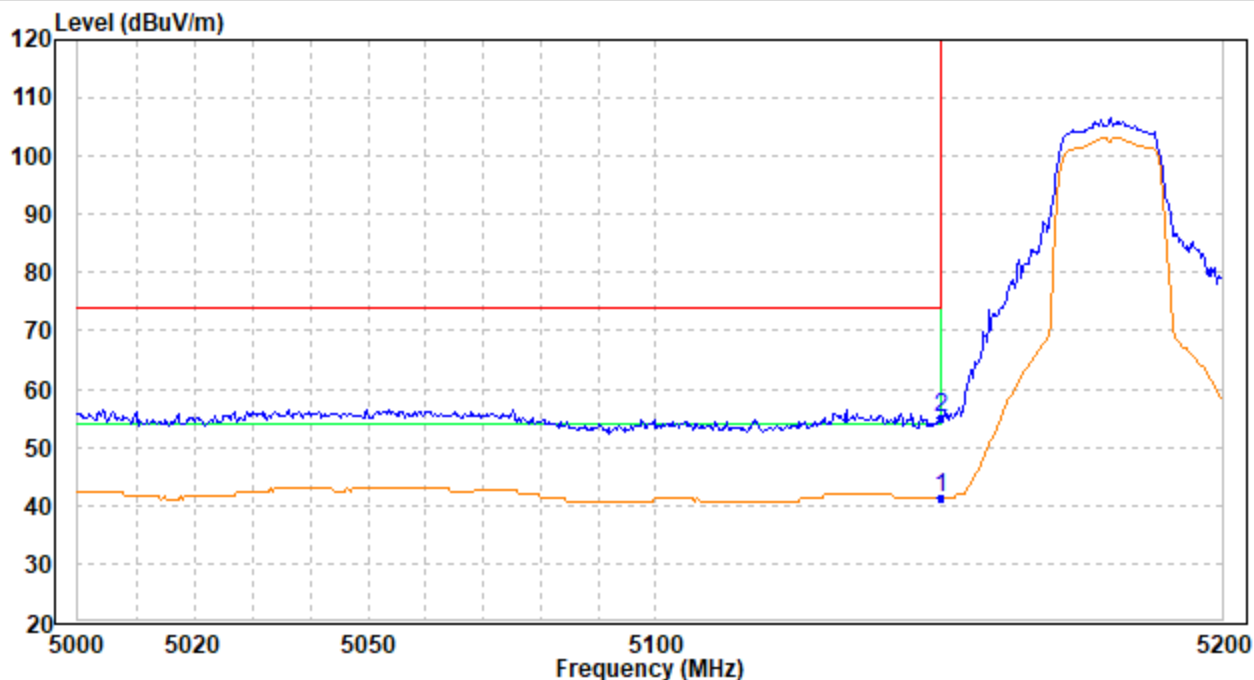


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	59.77	74.00	44.37	54.00	PASS

Test Channel: TX1TX2TX3_5G_N20_5180

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	55.17	74.00	41.35	54.00	PASS

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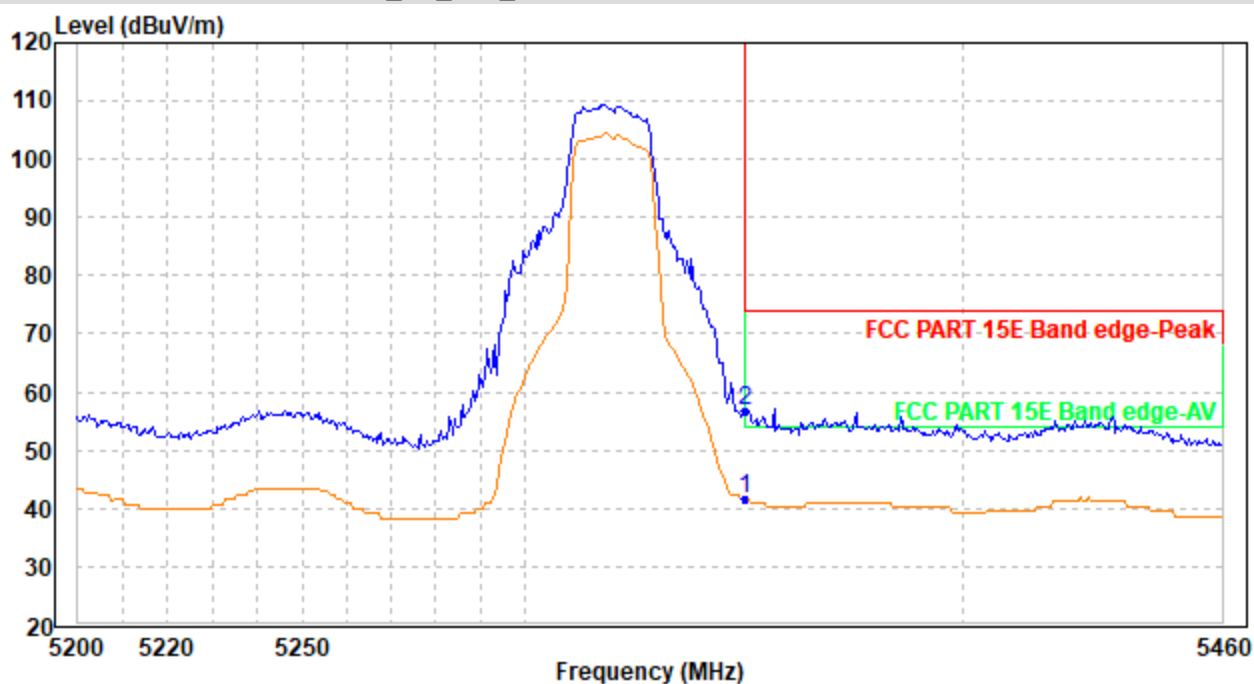
<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

Test Channel: TX1TX2TX3_5G_N20_5320

Ant Polar:

Horizontal

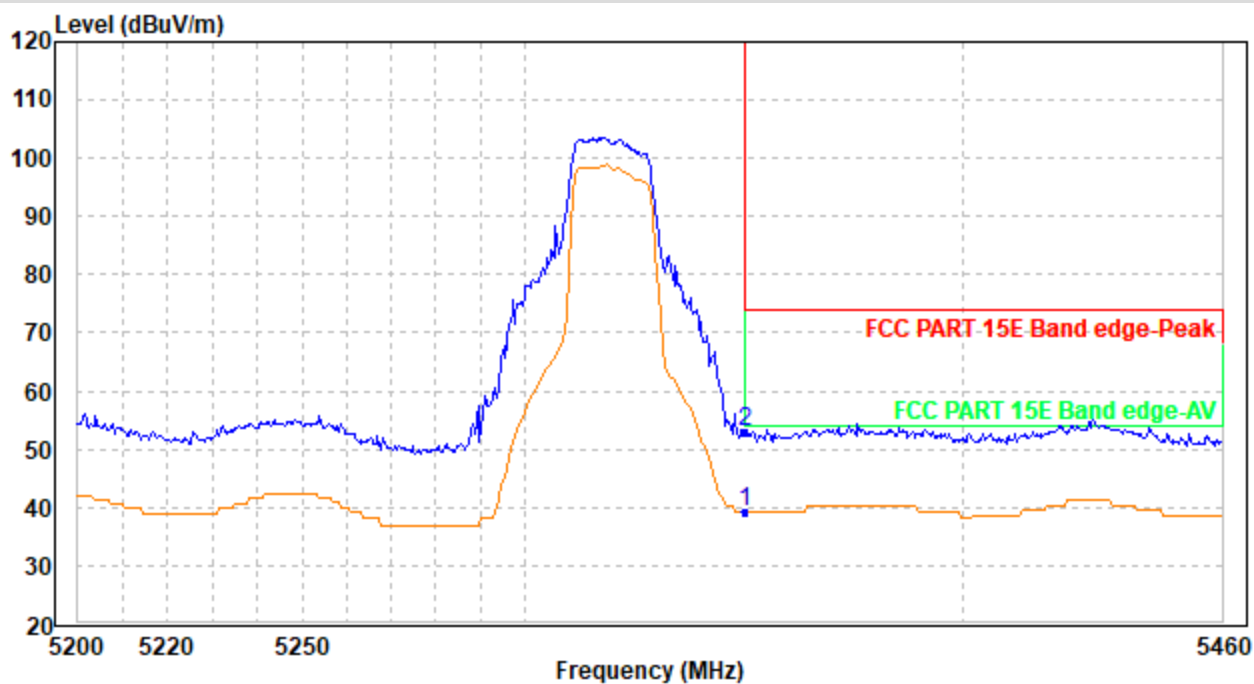


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5350.000	56.86	74.00	41.79	54.00	PASS

Test Channel: TX1TX2TX3_5G_N20_5320

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5350.000	53.09	74.00	39.29	54.00	PASS

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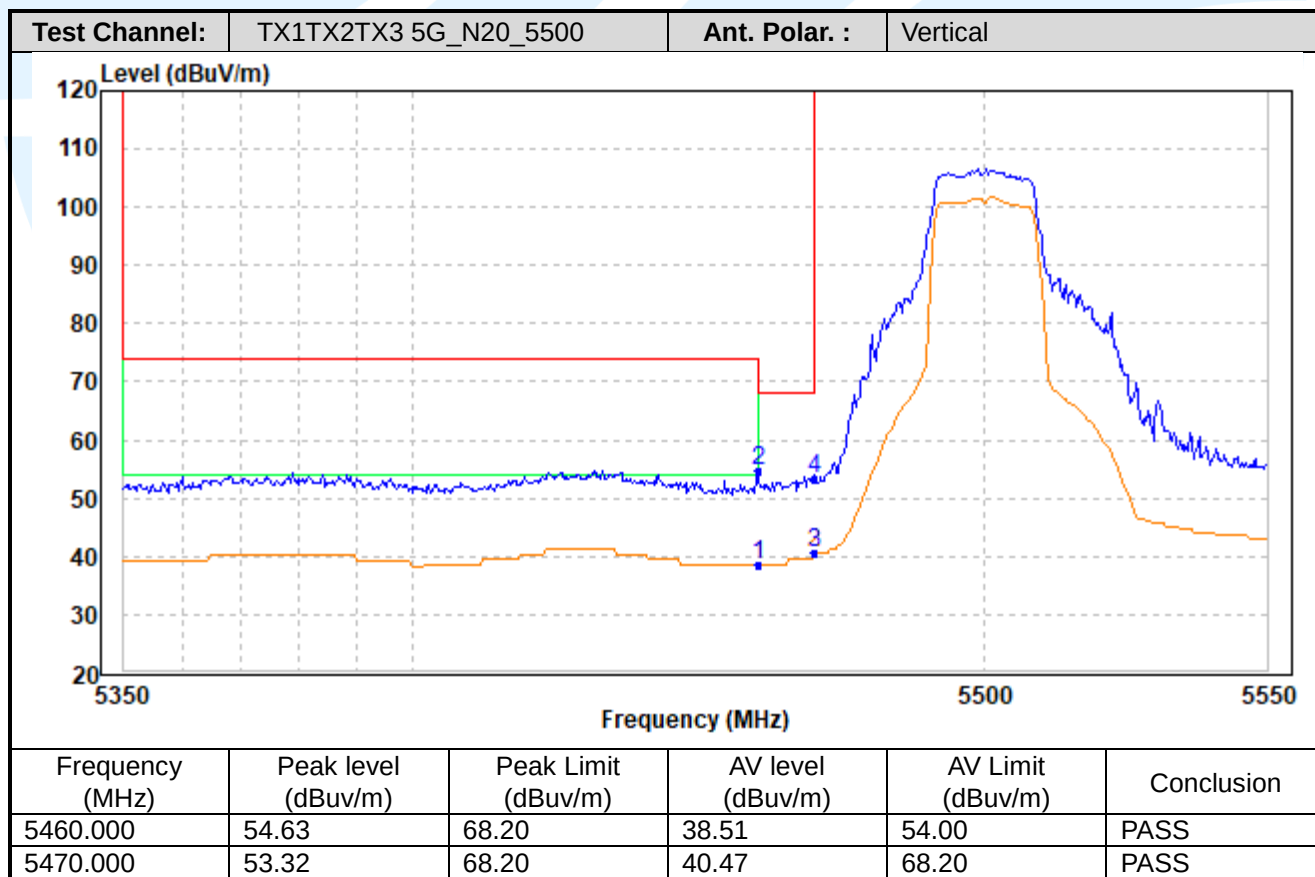
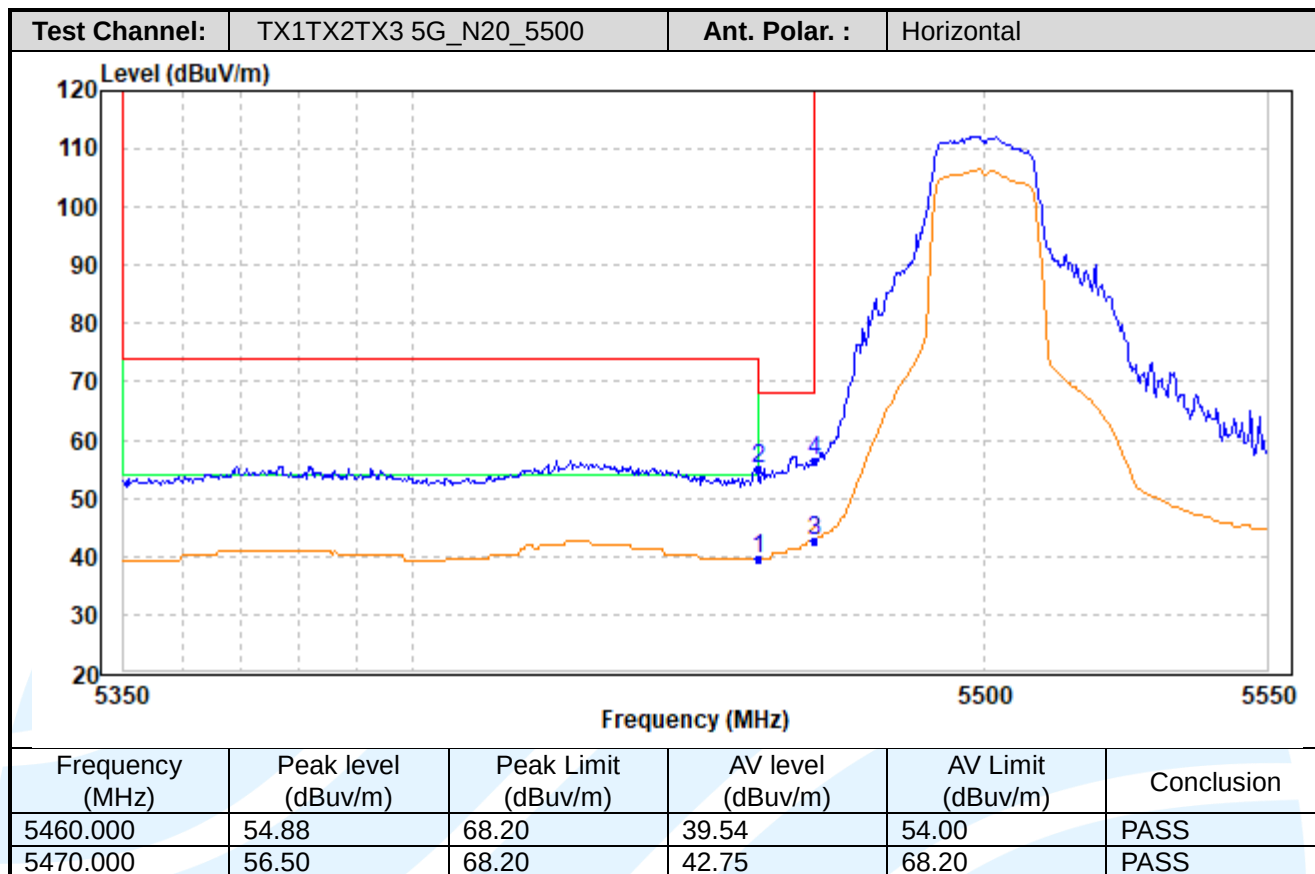
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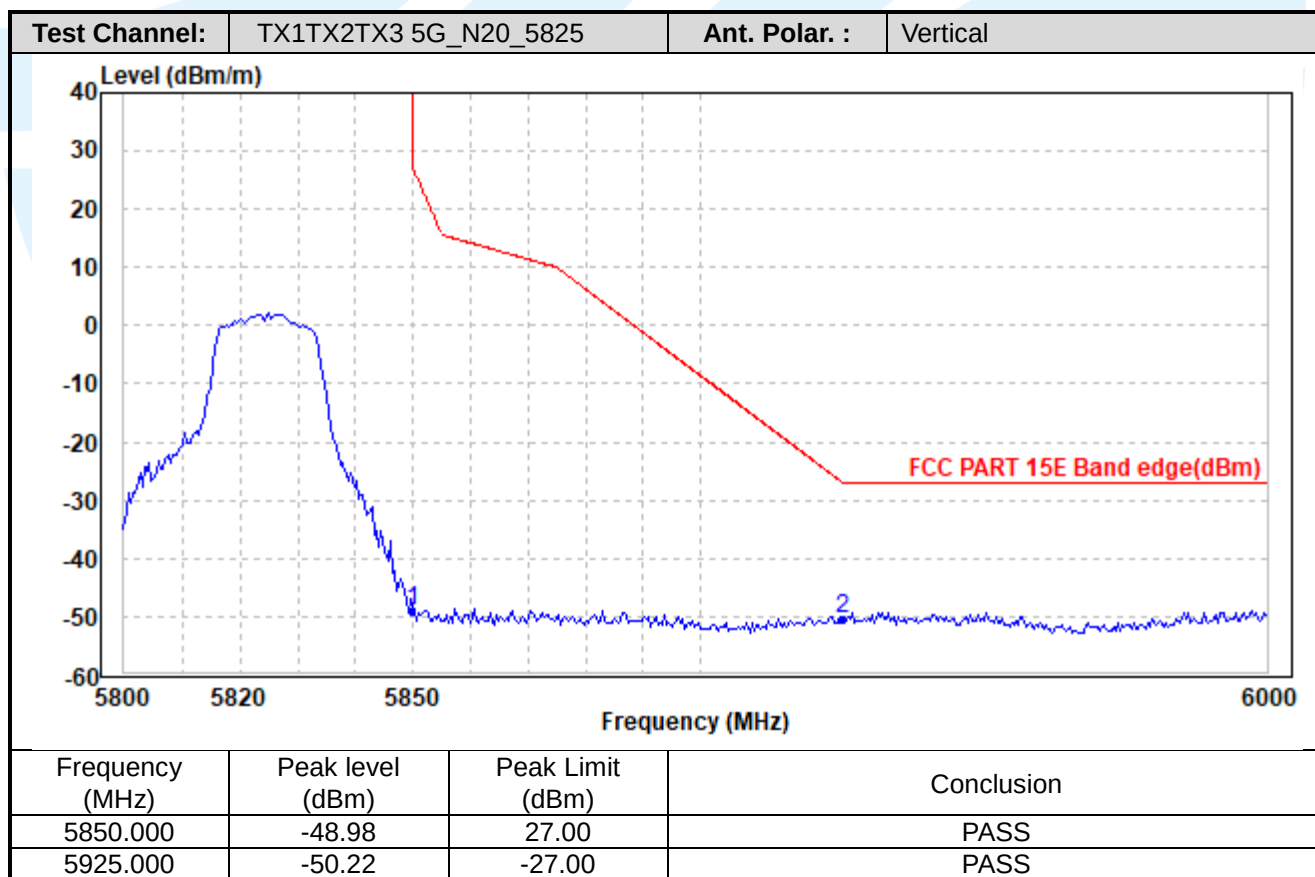
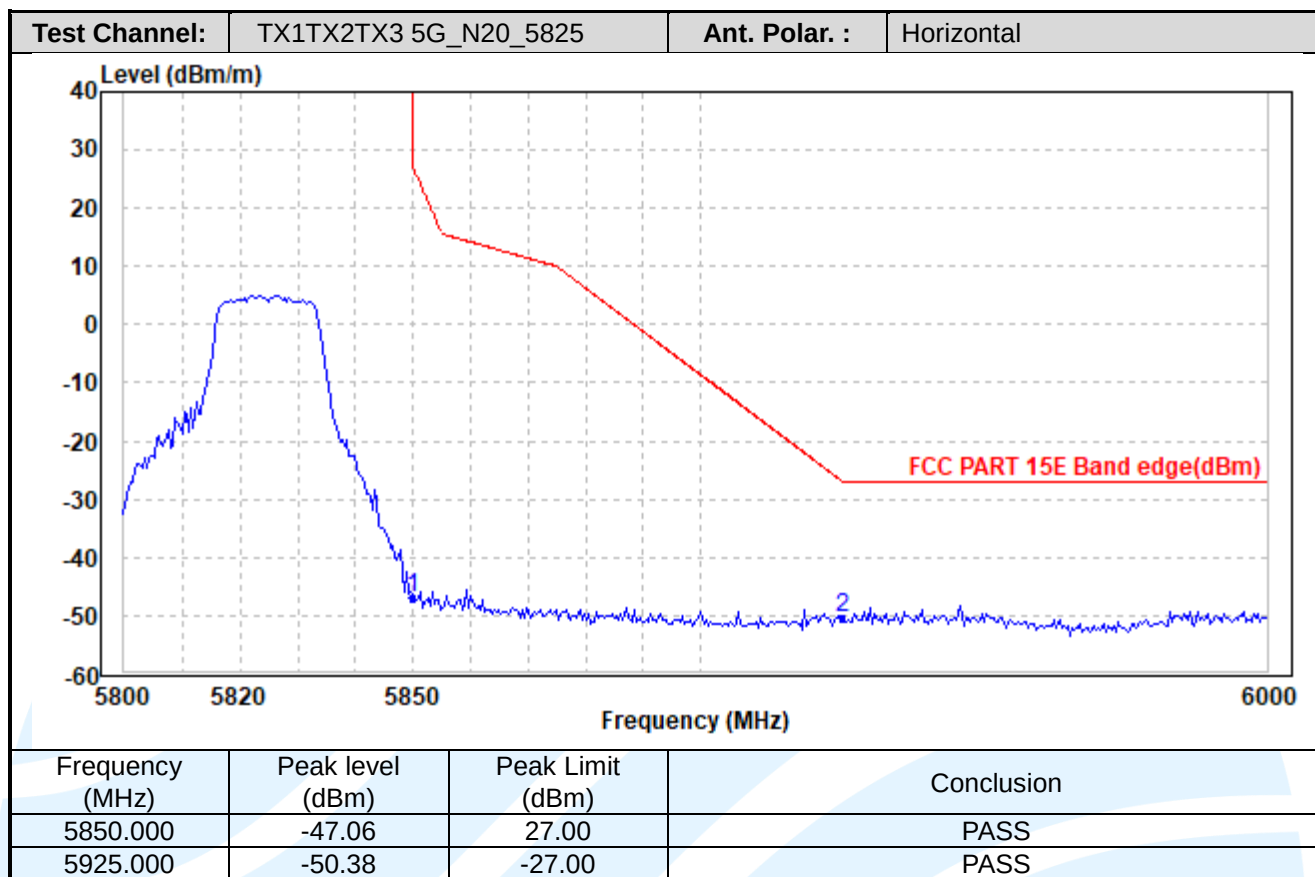
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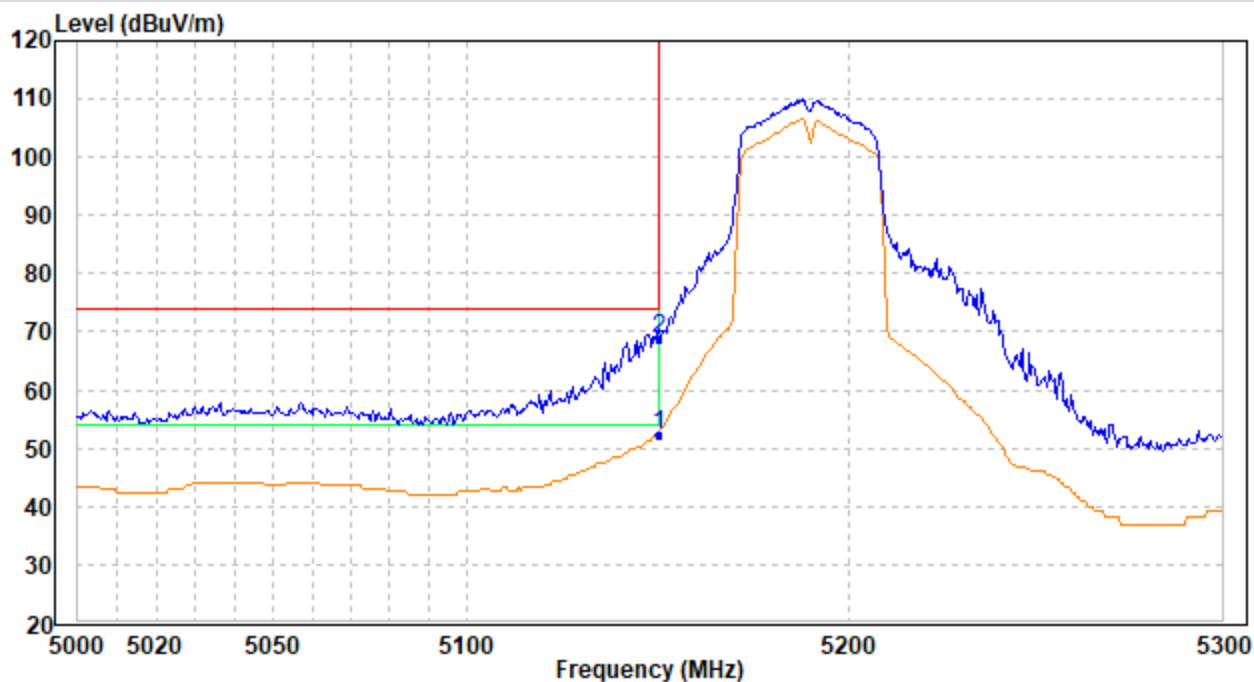
UTTR-RF-FCCPART15.407-V1.3



Test Channel: TX1TX2TX3_5G_N40_5190

Ant Polar:

Horizontal

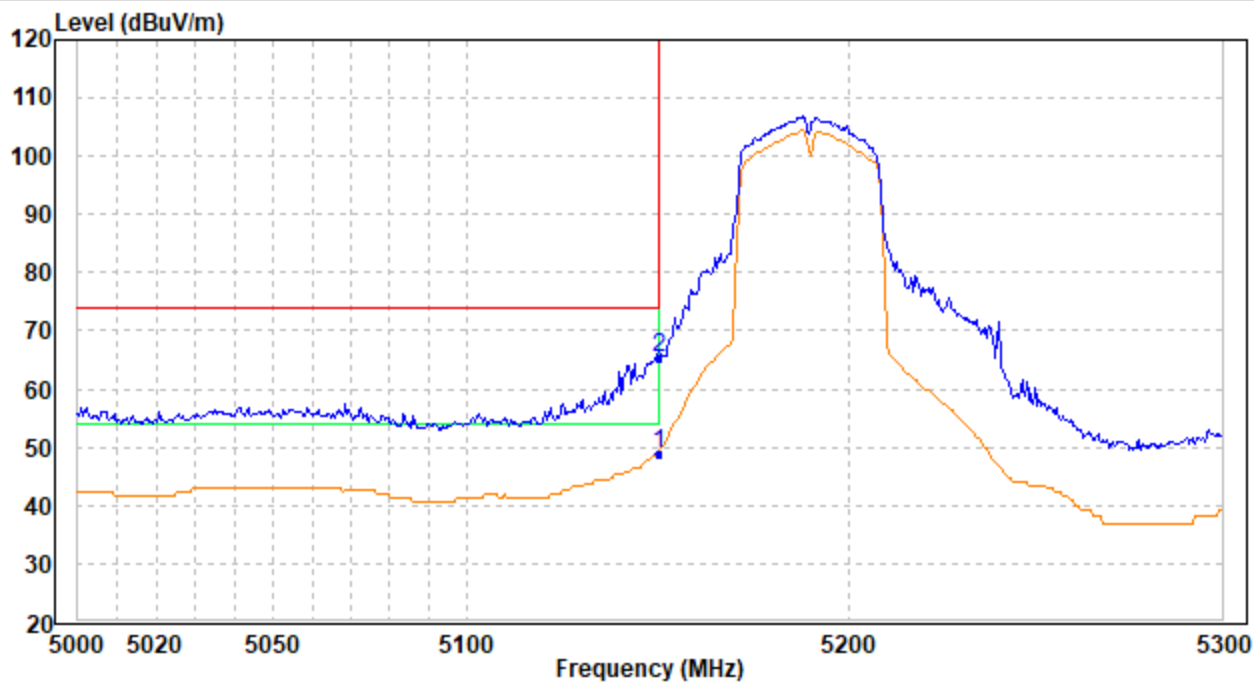


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	68.87	74.00	52.43	54.00	PASS

Test Channel: TX1TX2TX3_5G_N40_5190

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	65.46	74.00	48.71	54.00	PASS

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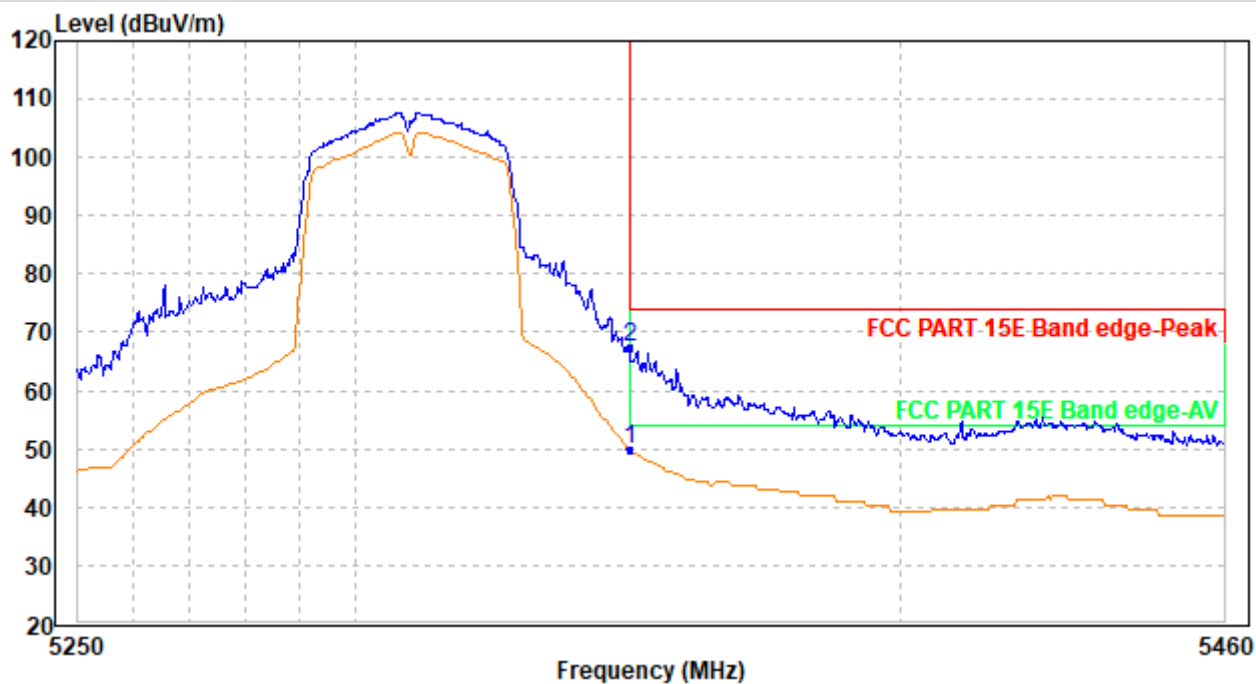
<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

Test Channel: TX1TX2TX3_5G_N40_5310

Ant Polar:

Horizontal

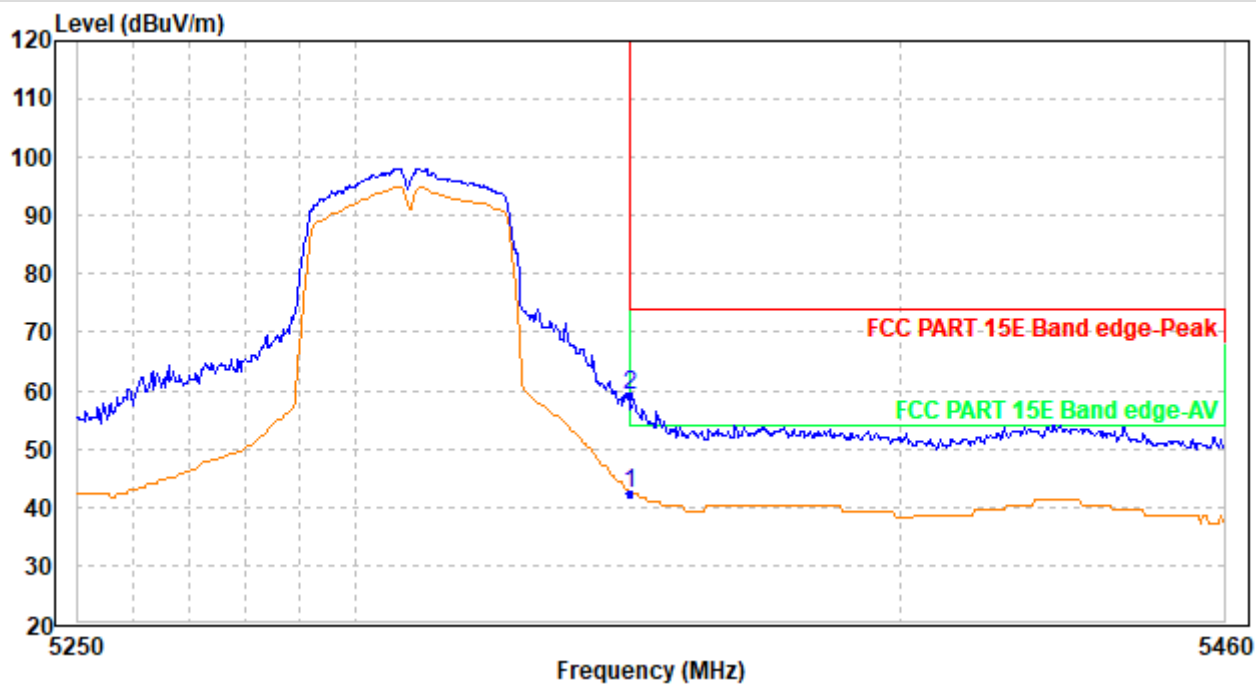


Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	67.38	74.00	49.75	54.00	PASS

Test Channel: TX1TX2TX3_5G_N40_5310

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	59.21	74.00	42.49	54.00	PASS

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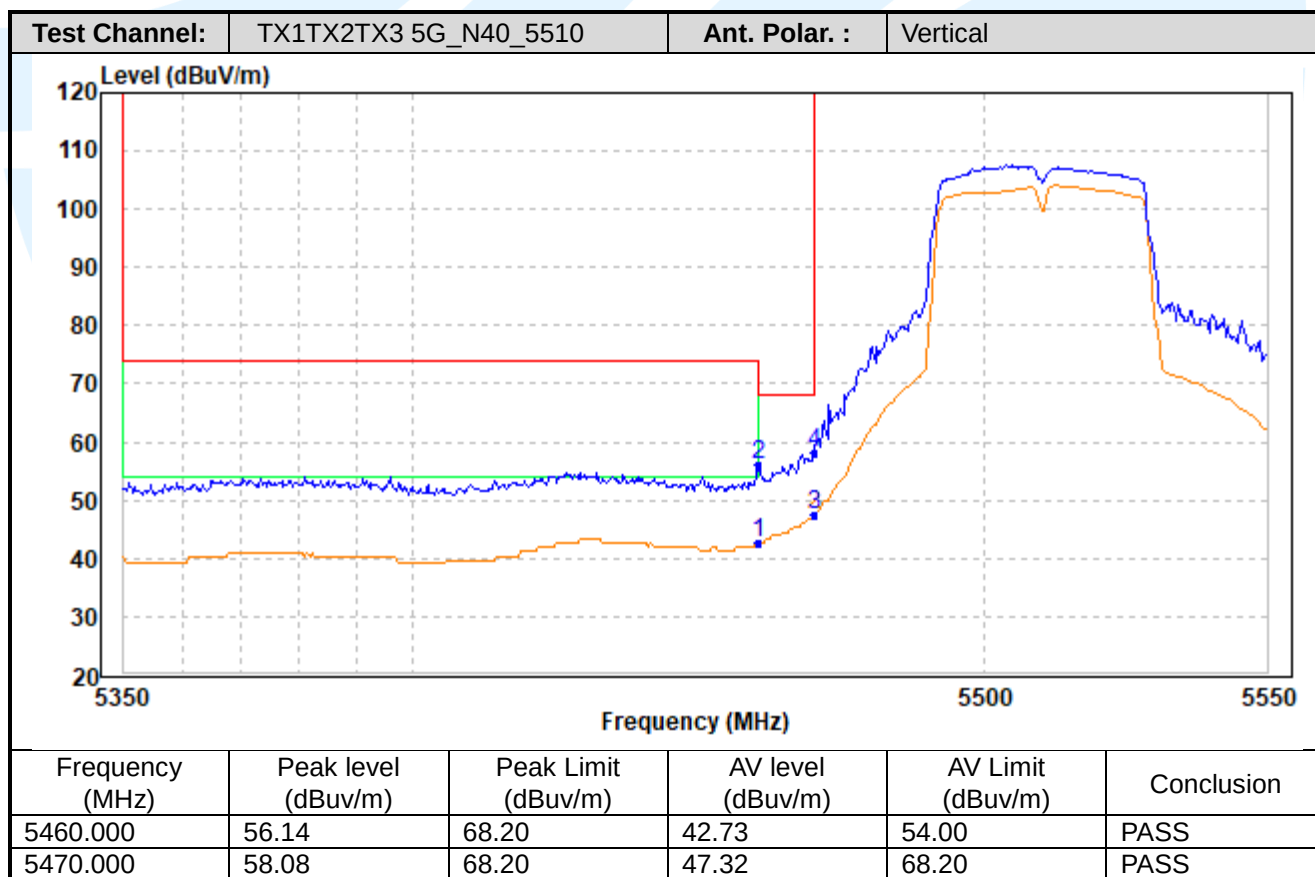
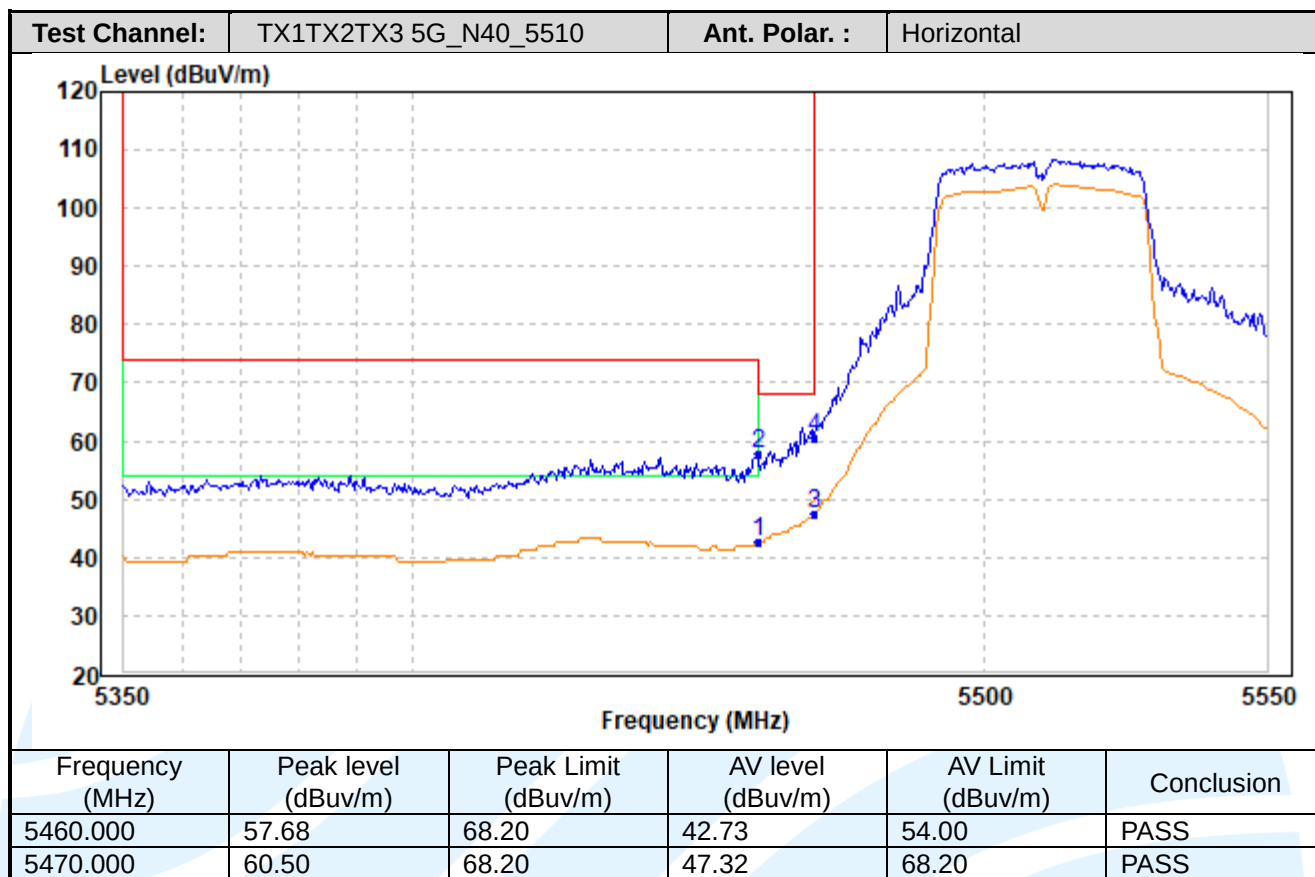
Tel: +86-755-28230888

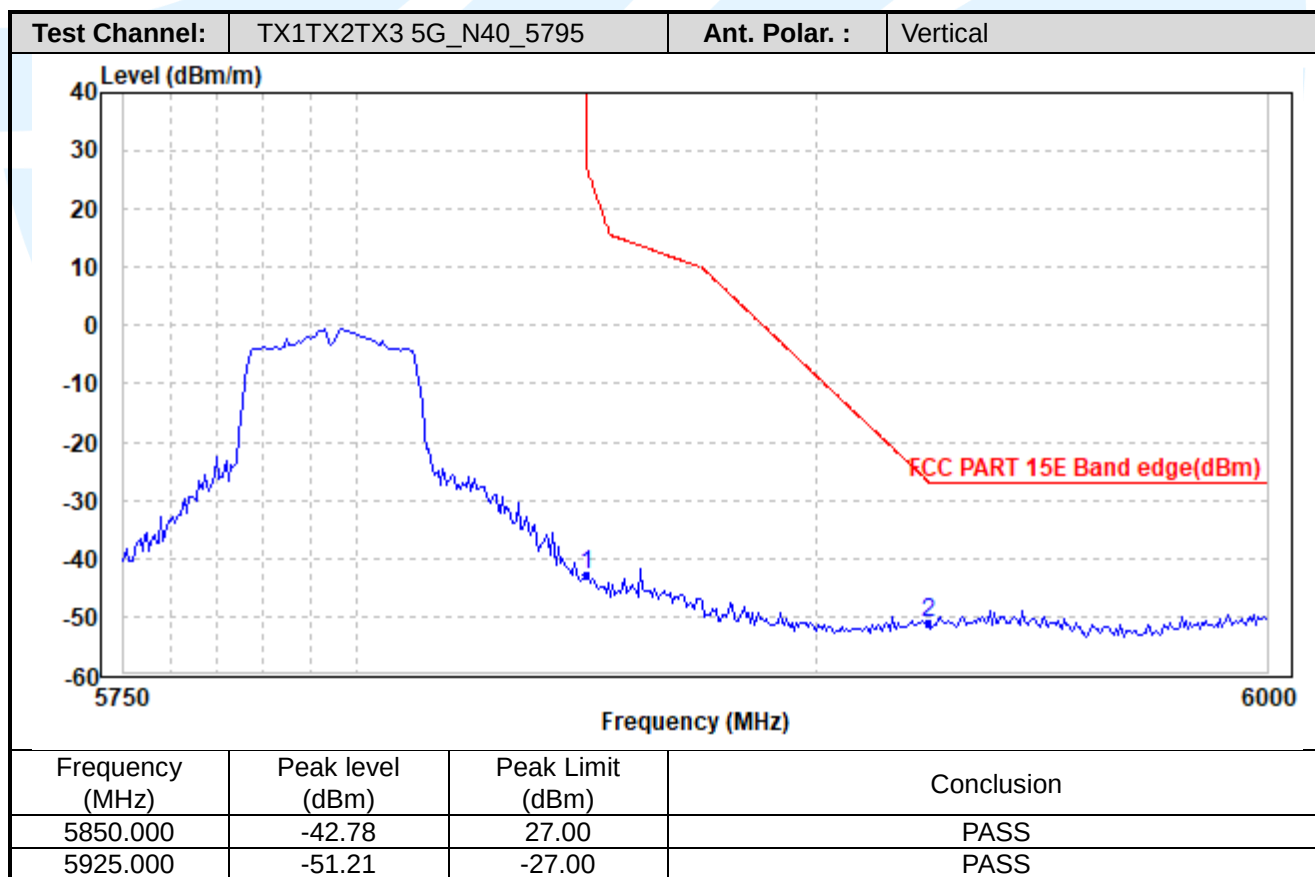
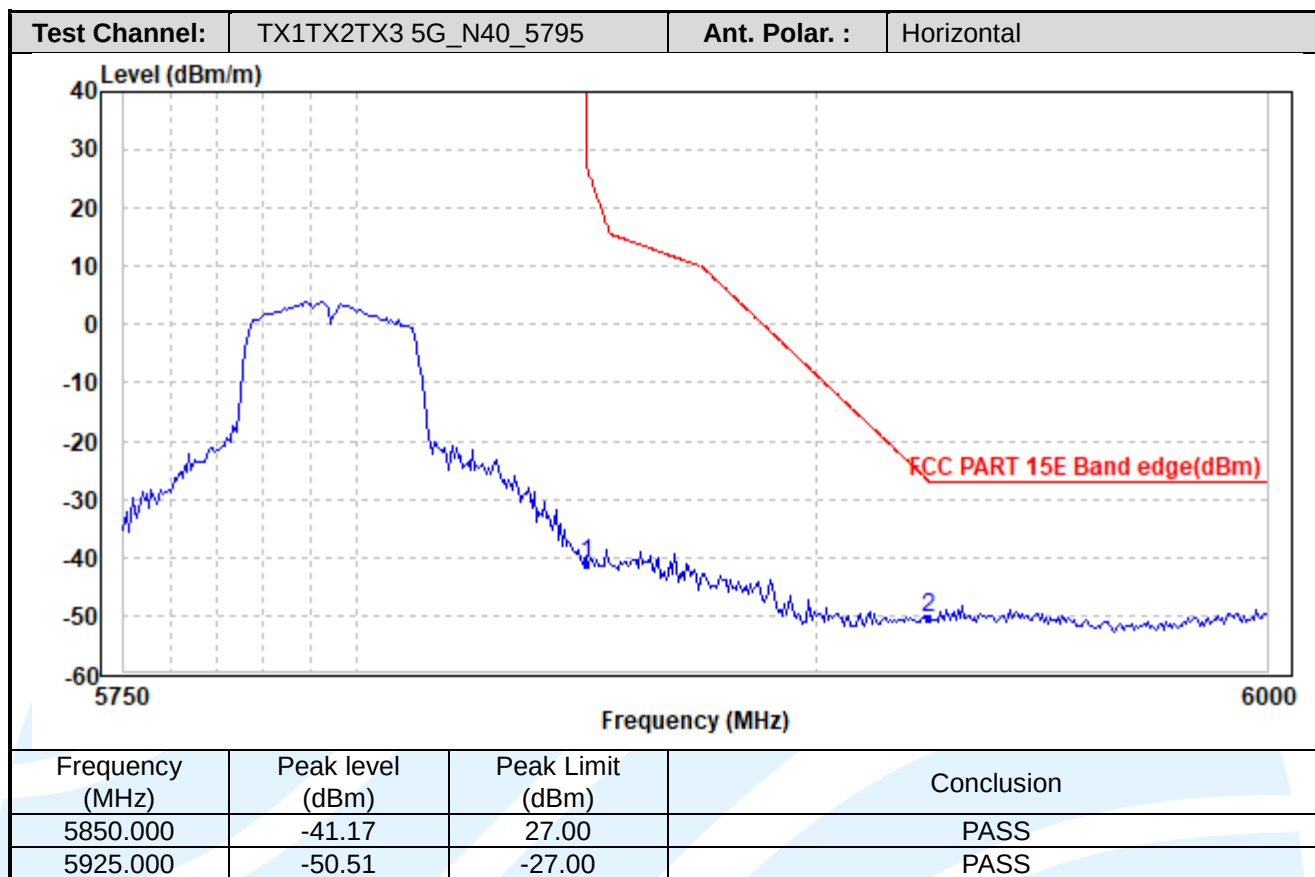
Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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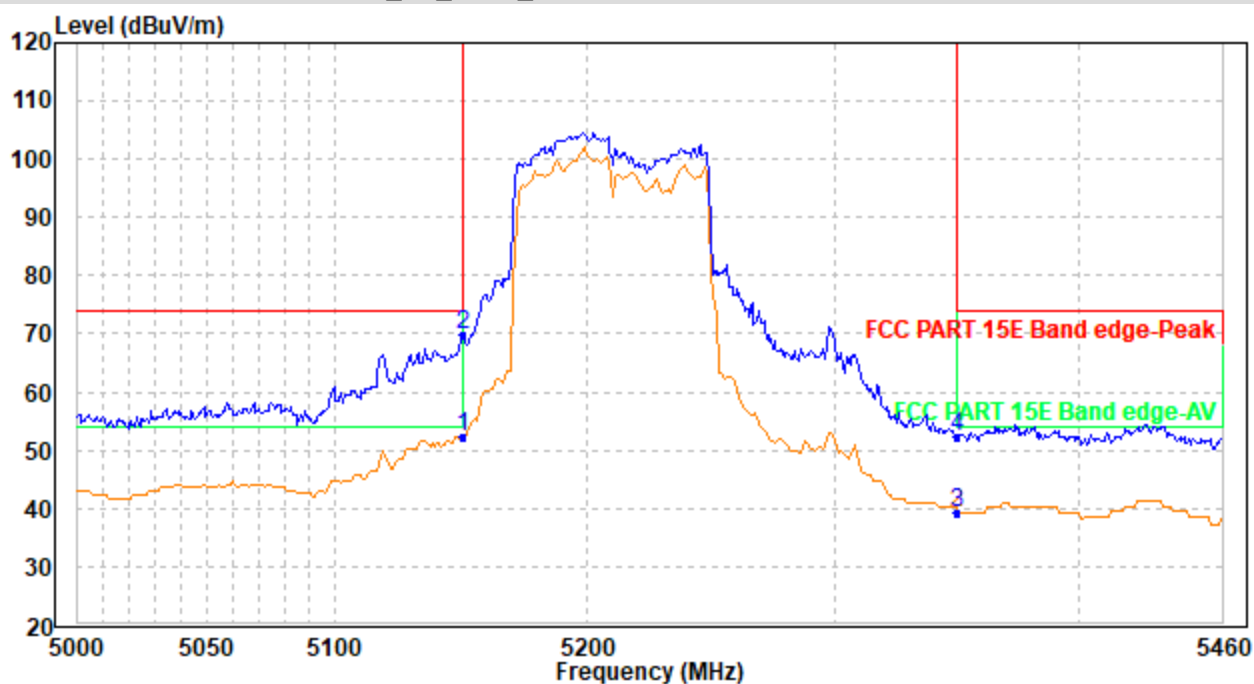




Test Channel: TX1TX2TX3_5G_AC80_5210

Ant Polar:

Horizontal

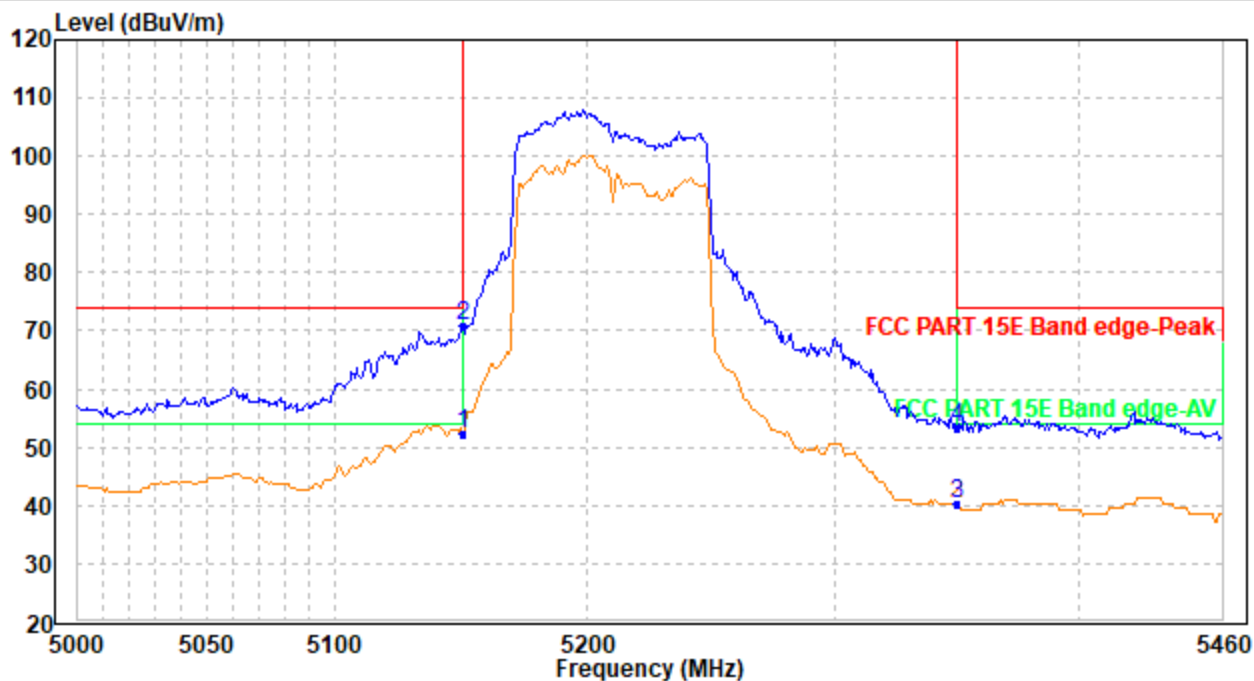


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	69.68	74.00	52.44	54.00	PASS
5350.000	52.28	74.00	39.29	54.00	PASS

Test Channel: TX1TX2TX3_5G_AC80_5210

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	70.79	74.00	52.41	54.00	PASS
5350.000	53.43	74.00	40.21	54.00	PASS

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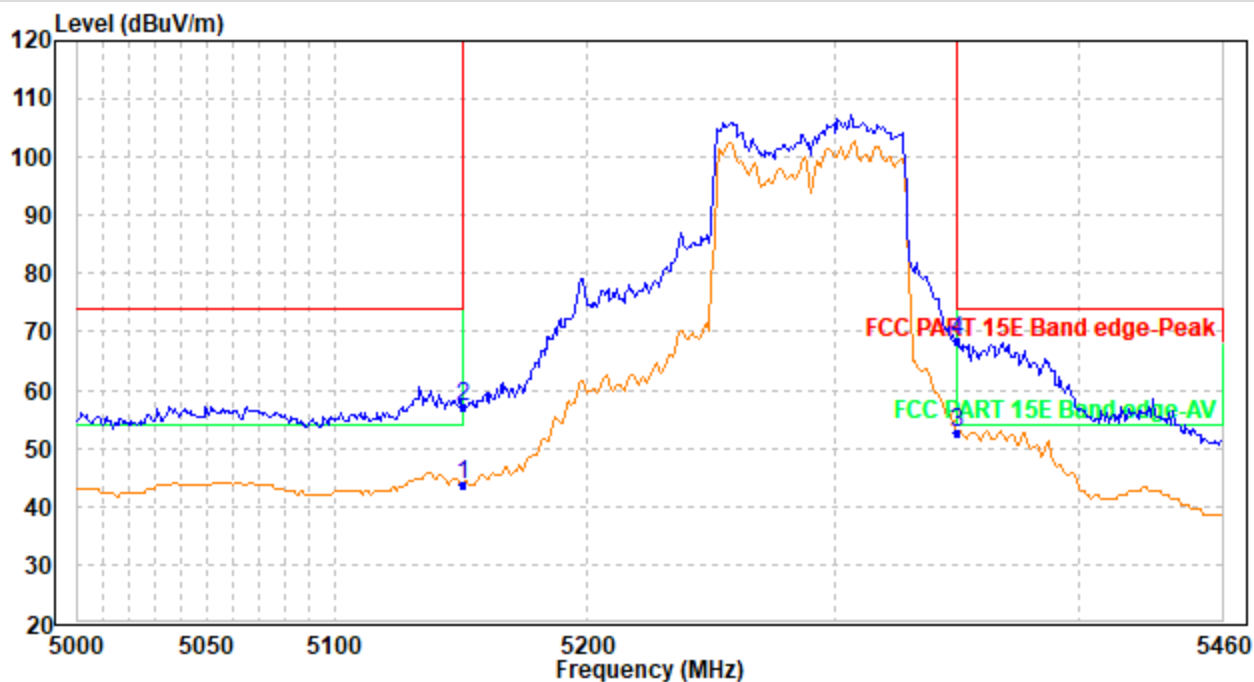
<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

Test Channel: TX1TX2TX3_5G_AC80_5290

Ant Polar:

Horizontal

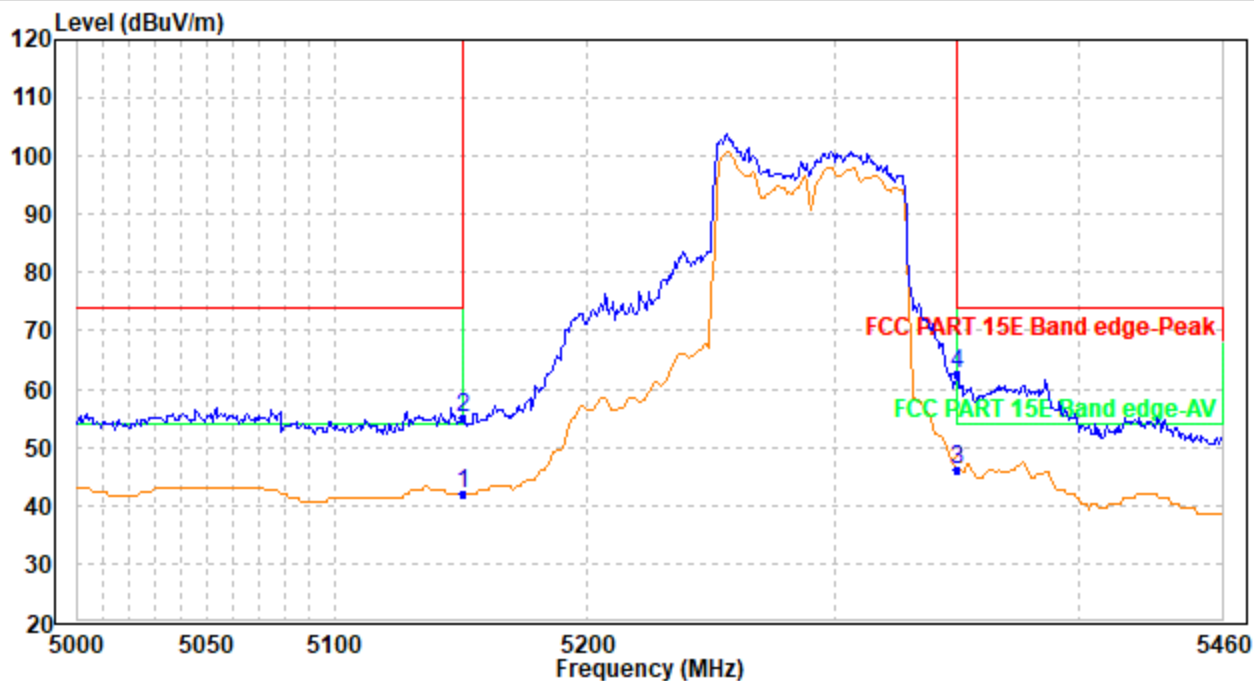


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	57.08	74.00	43.85	54.00	PASS
5350.000	68.50	74.00	52.67	54.00	PASS

Test Channel: TX1TX2TX3_5G_AC80_5290

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	54.95	74.00	42.05	54.00	PASS
5350.000	62.55	74.00	46.23	54.00	PASS

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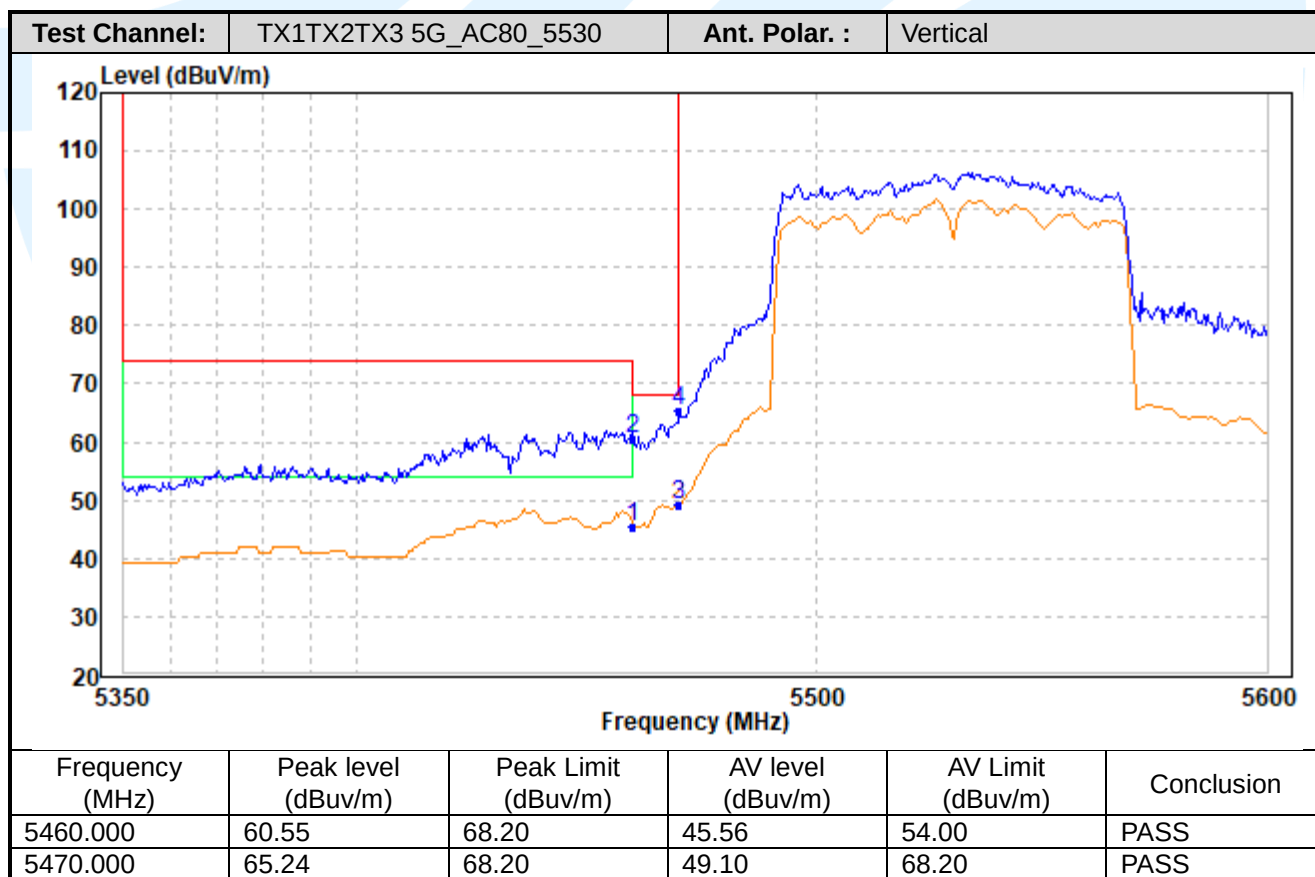
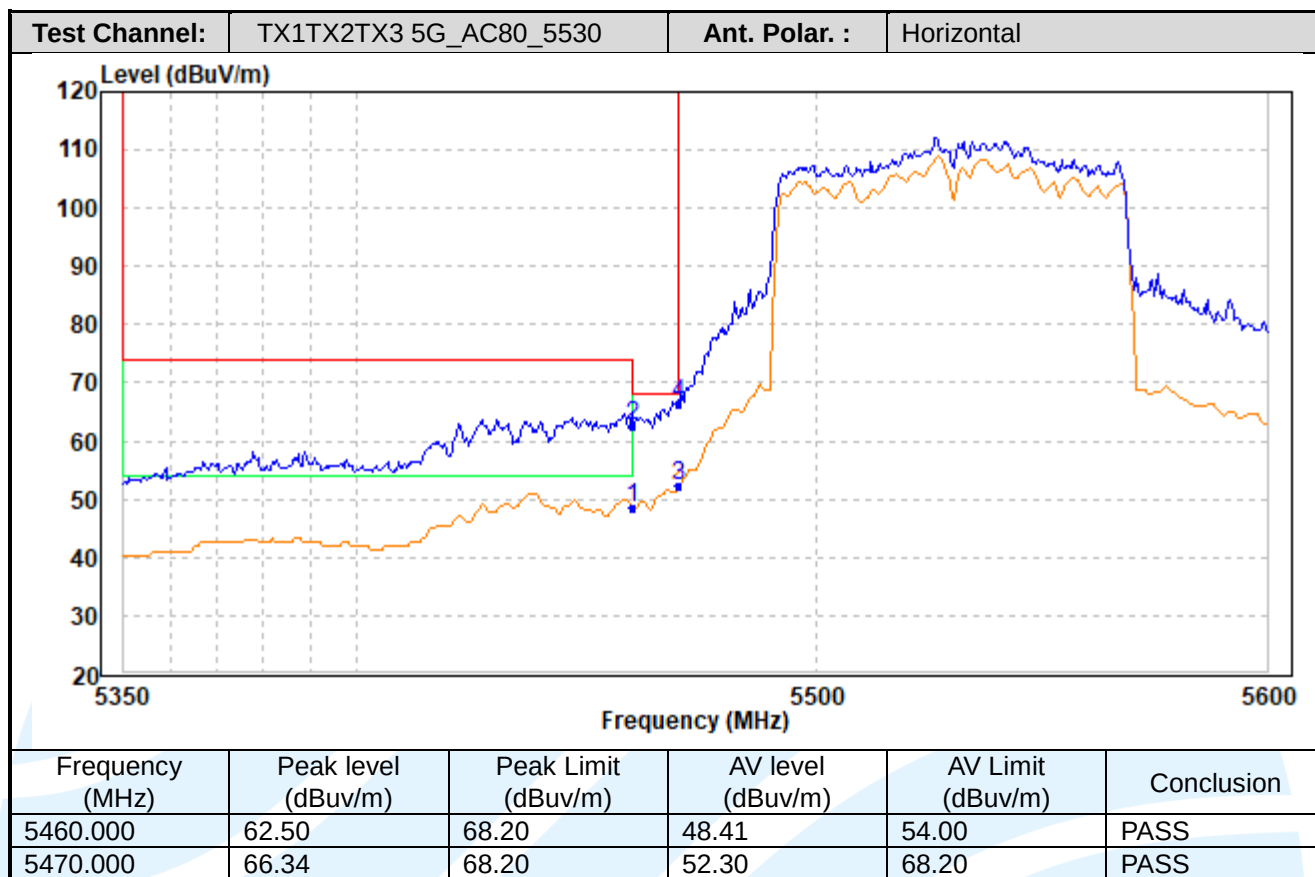
Tel: +86-755-28230888

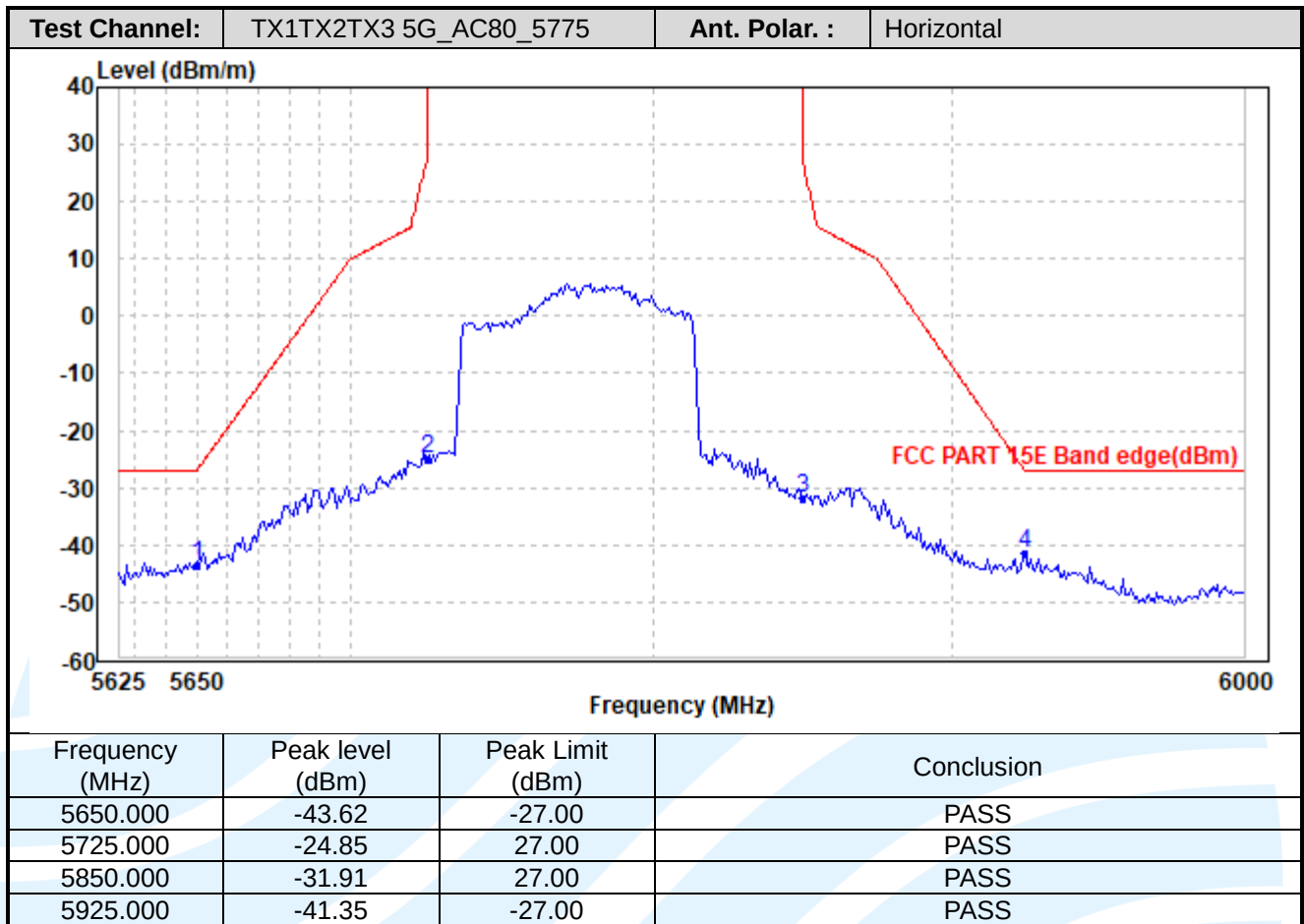
Fax: +86-755-28230886

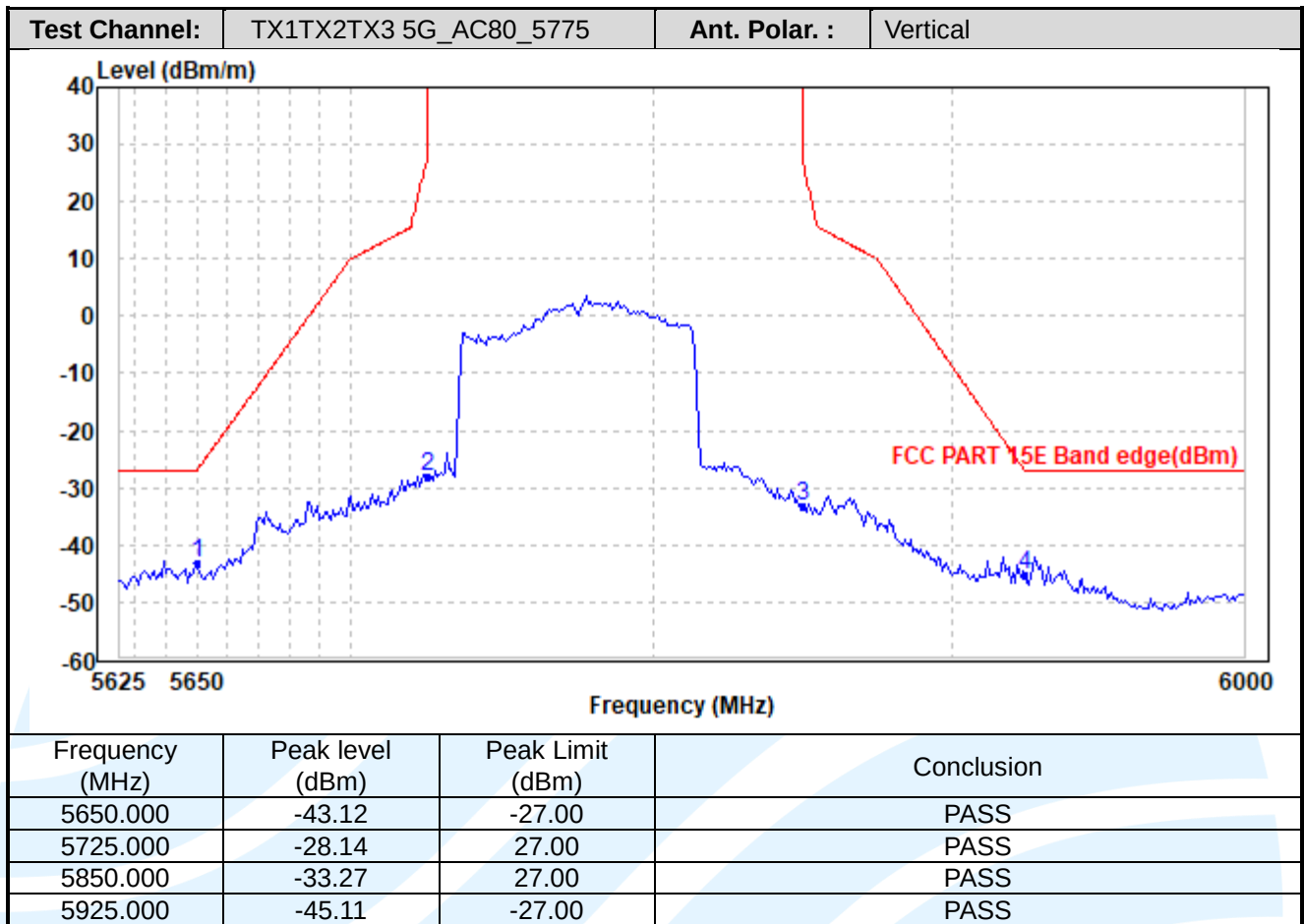
E-mail: info@uttlab.com

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UTTR-RF-FCCPART15.407-V1.3



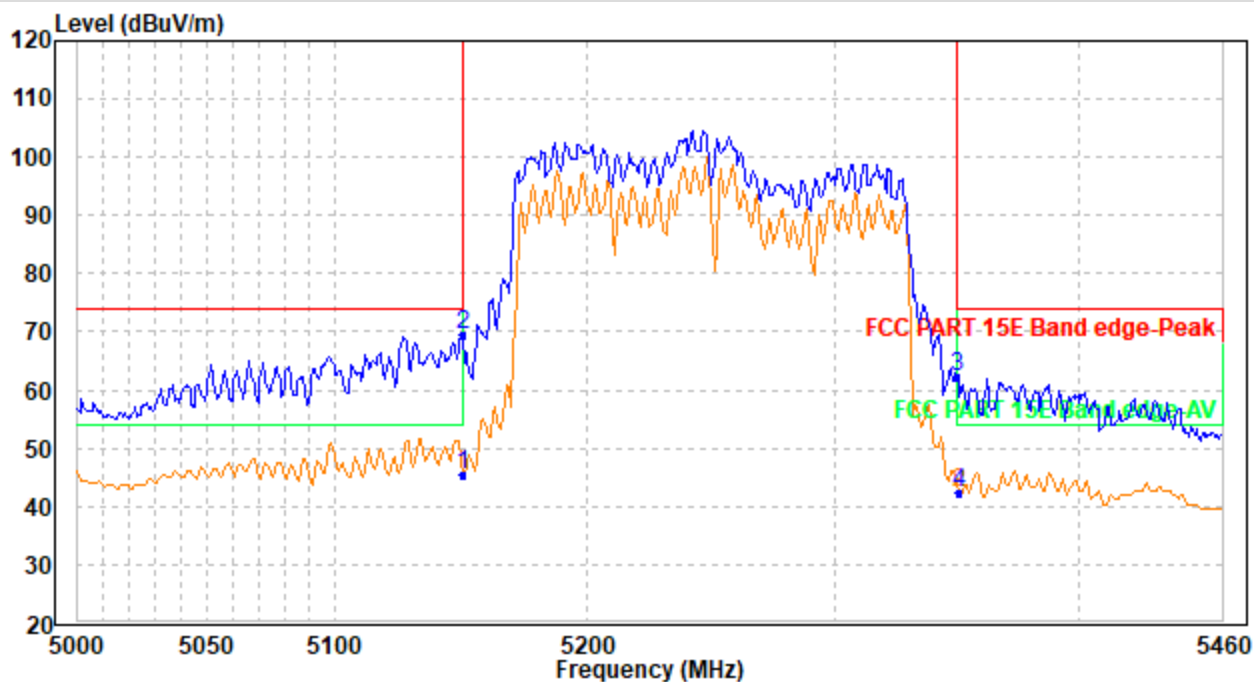




Test Channel: TX1TX2TX3_5G_AC160_5250

Ant Polar:

Horizontal

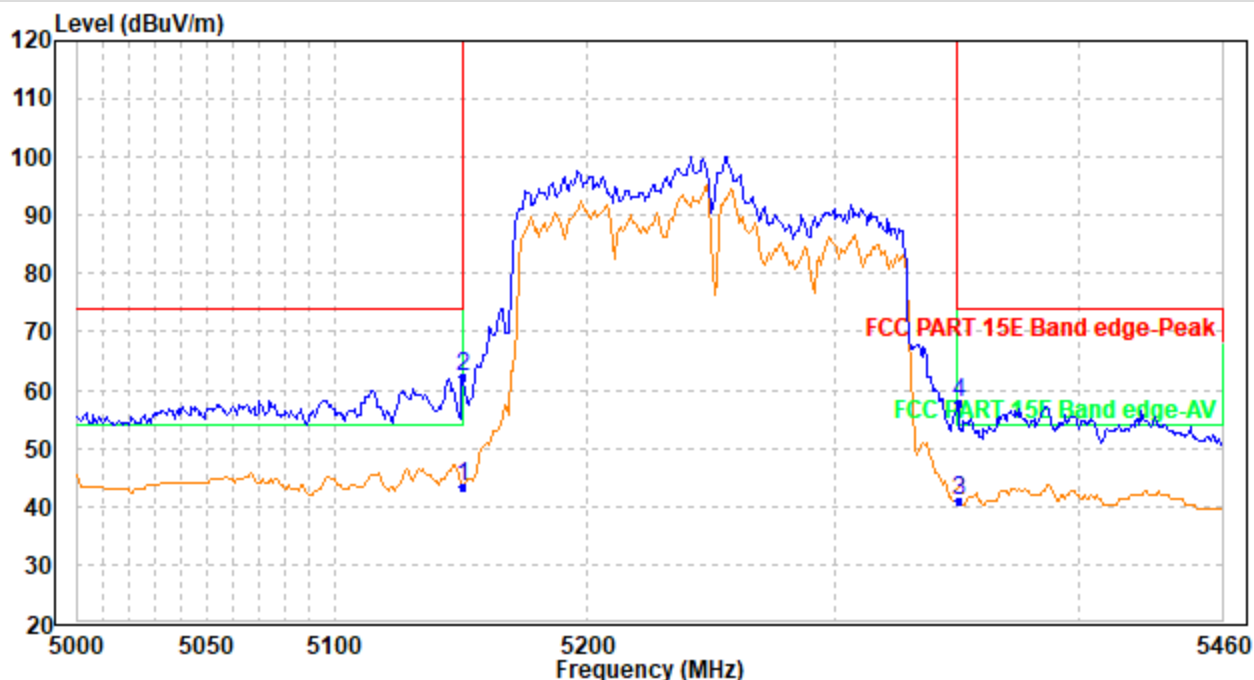


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	69.55	74.00	45.34	54.00	PASS
5350.000	62.24	74.00	--	--	PASS
5350.301	--	--	42.49	54.00	PASS

Test Channel: TX1TX2TX3_5G_AC160_5250

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	62.28	74.00	43.29	54.00	PASS
5350.301	57.93	74.00	41.04	54.00	PASS

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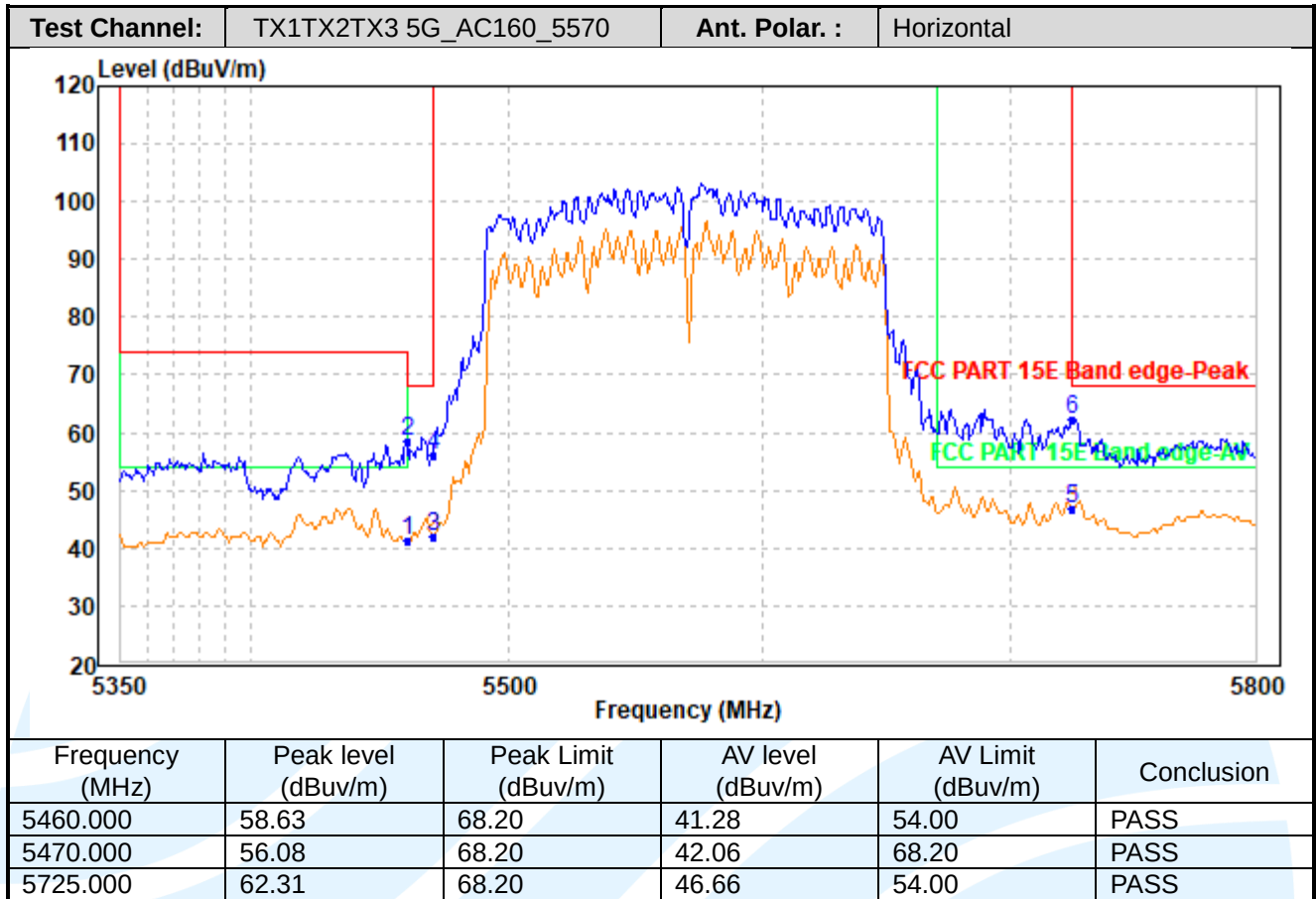
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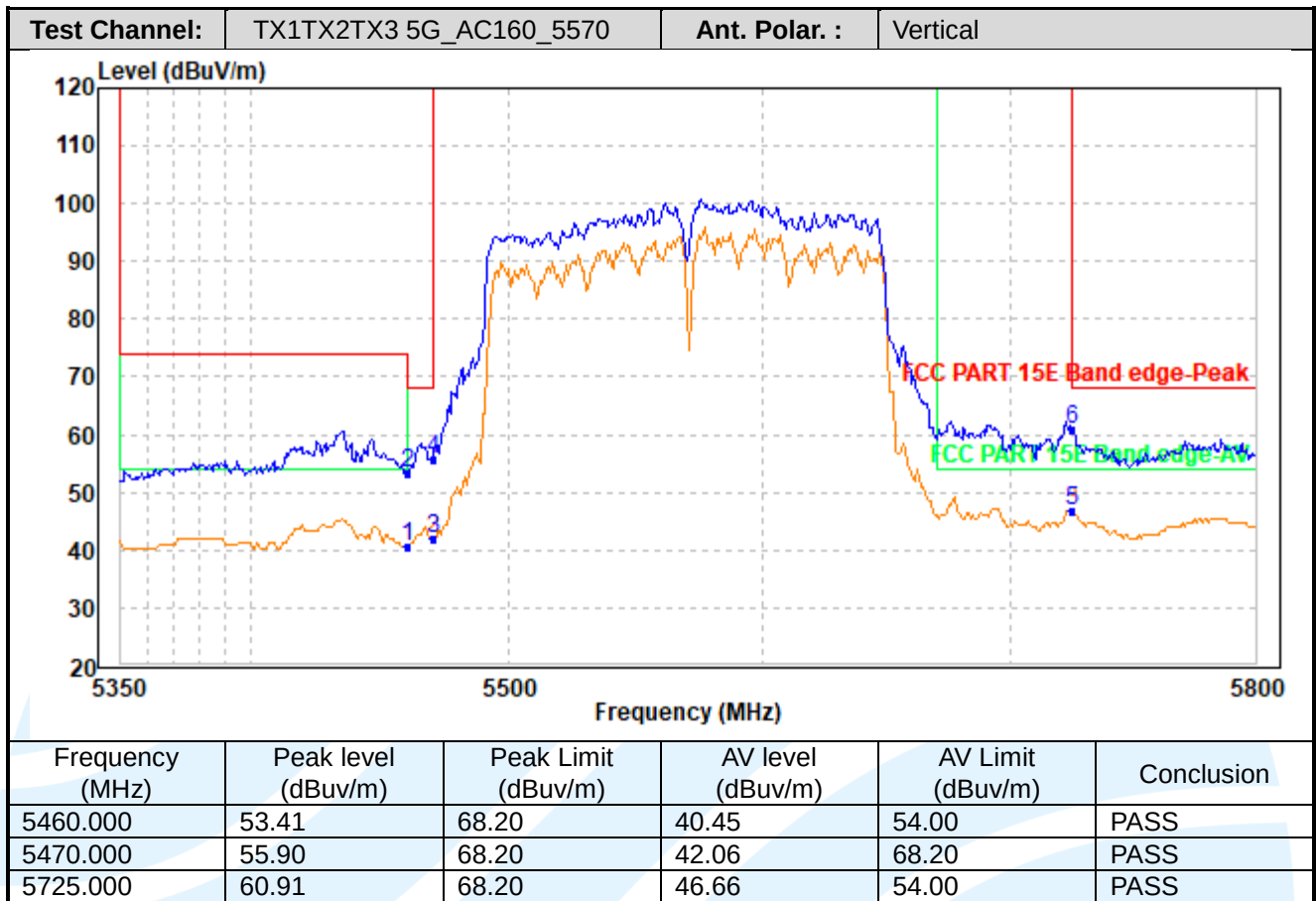
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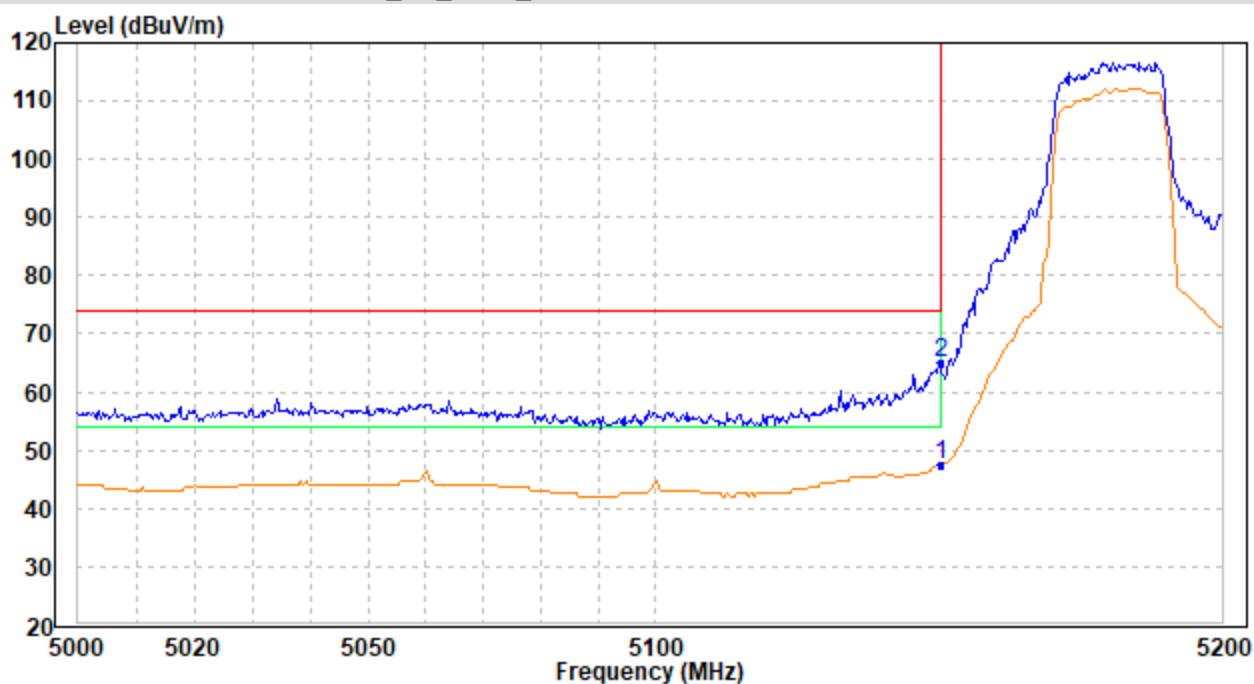
<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

Test Channel: TX1TX2TX3_5G_AX20_5180

Ant Polar:

Horizontal

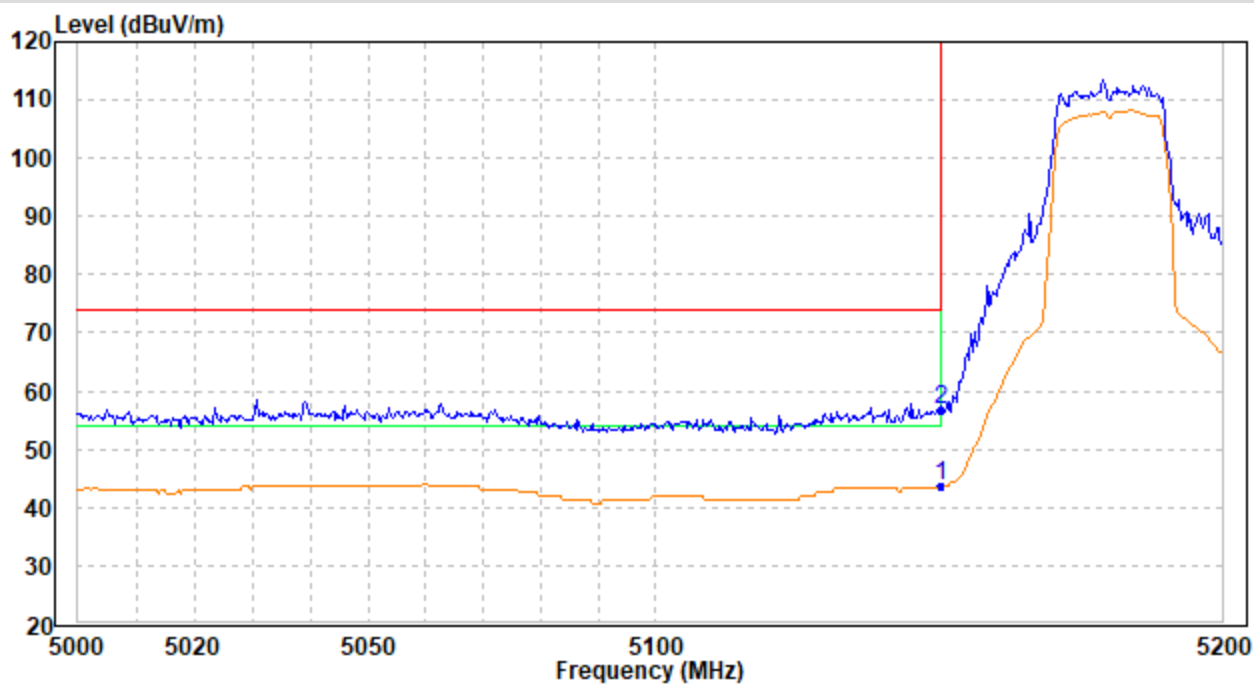


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	65.08	74.00	47.37	54.00	PASS

Test Channel: TX1TX2TX3_5G_AX20_5180

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	56.70	74.00	43.85	54.00	PASS

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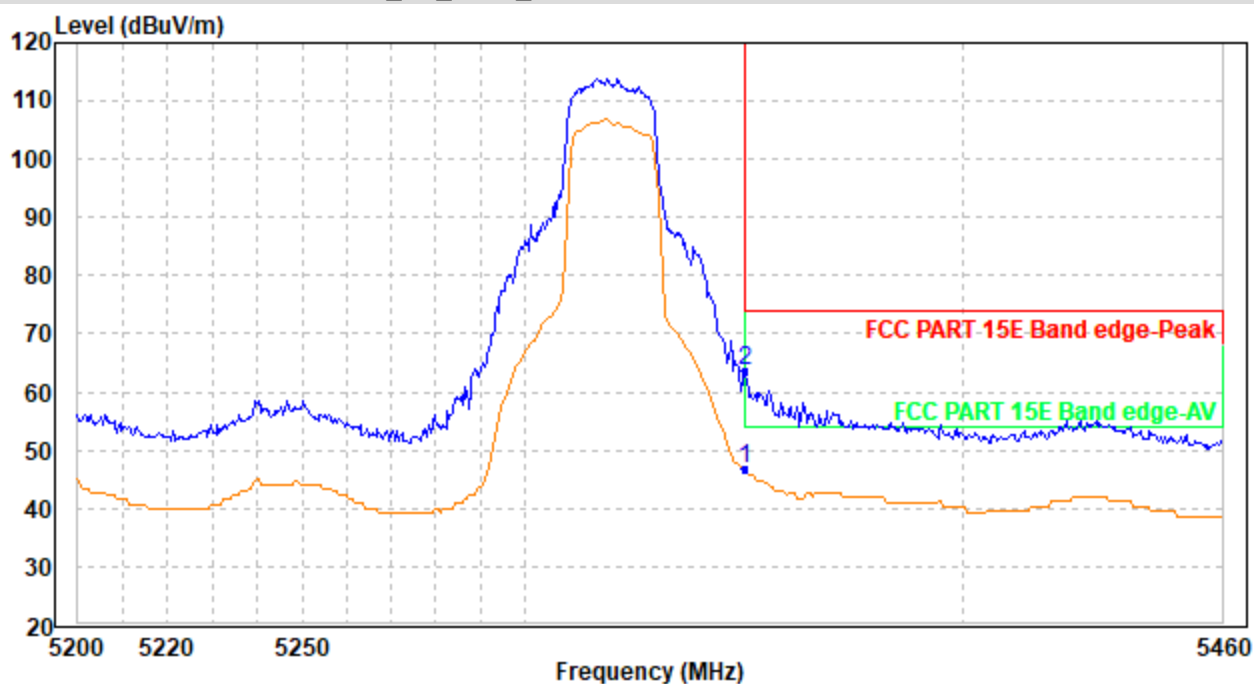
<http://www.uttlab.com>

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Test Channel: TX1TX2TX3_5G_AX20_5320

Ant Polar:

Horizontal

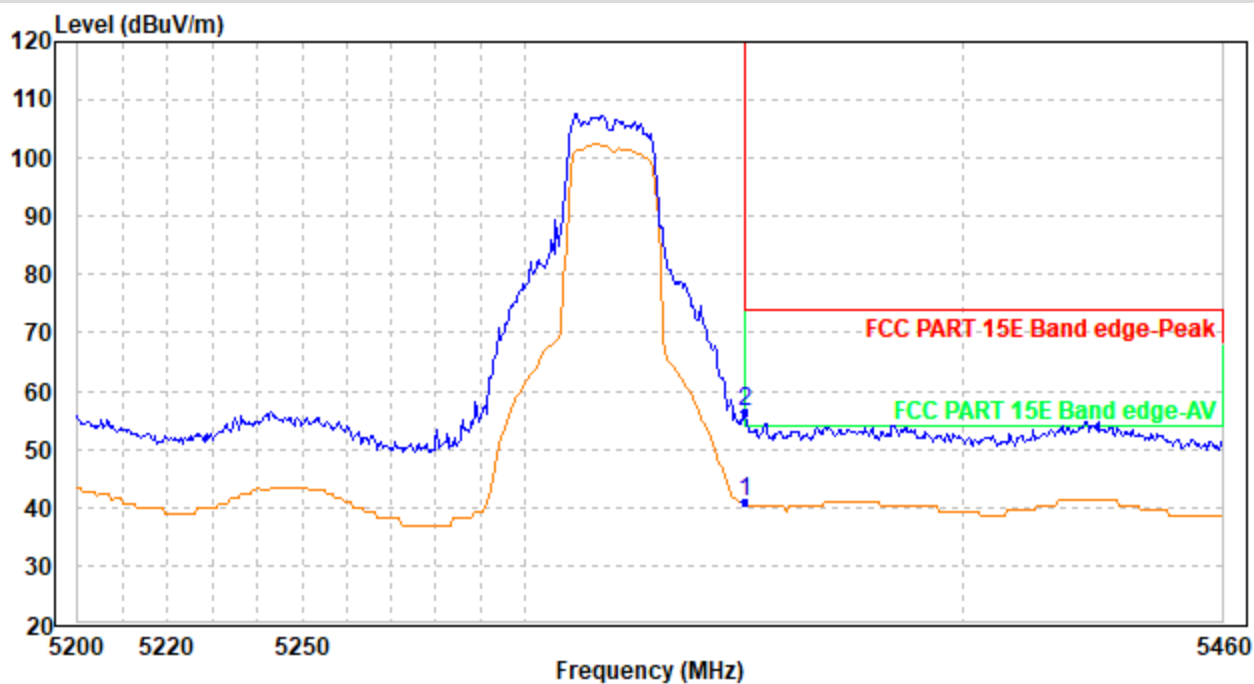


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5350.000	63.58	74.00	46.65	54.00	PASS

Test Channel: TX1TX2TX3_5G_AX20_5320

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5350.000	56.41	74.00	41.04	54.00	PASS

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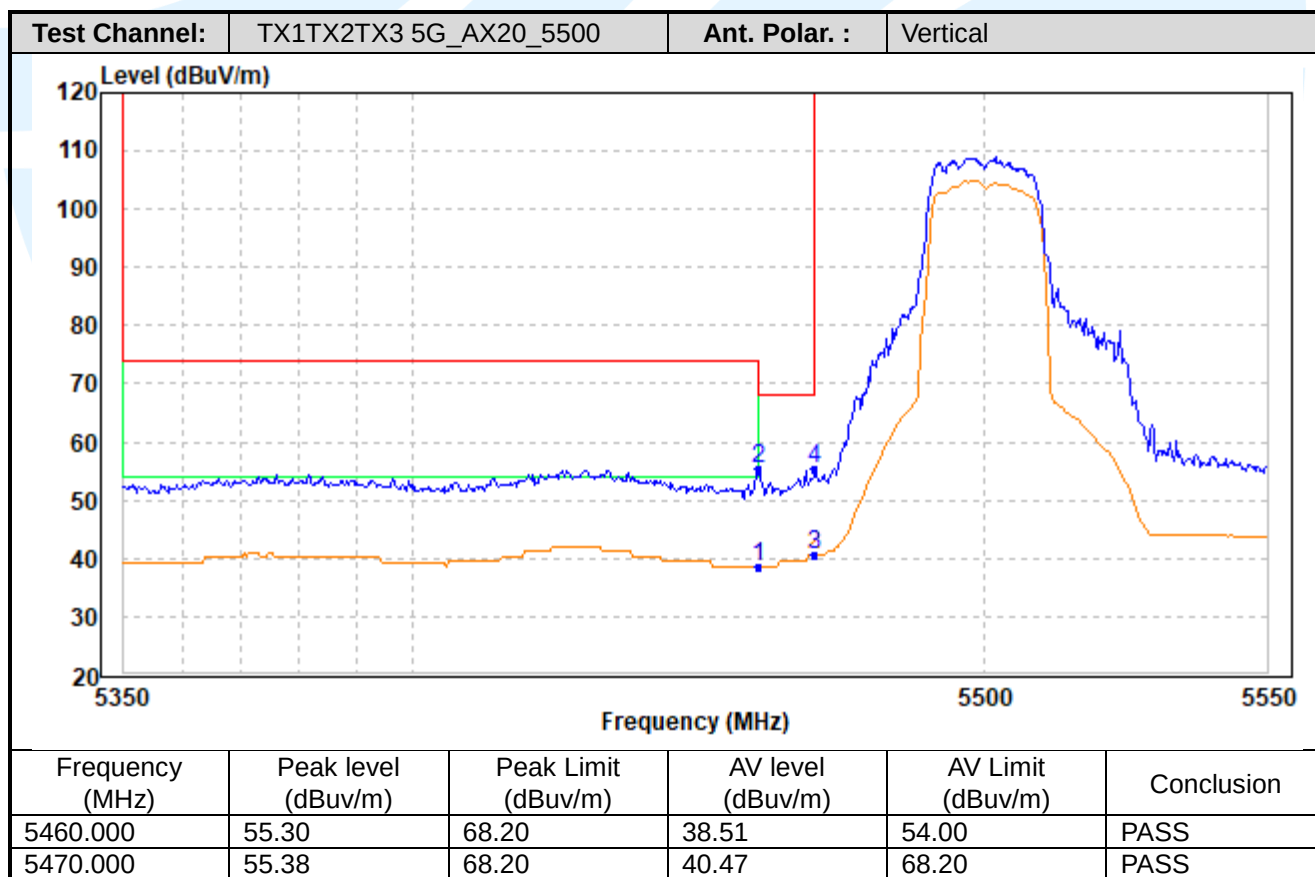
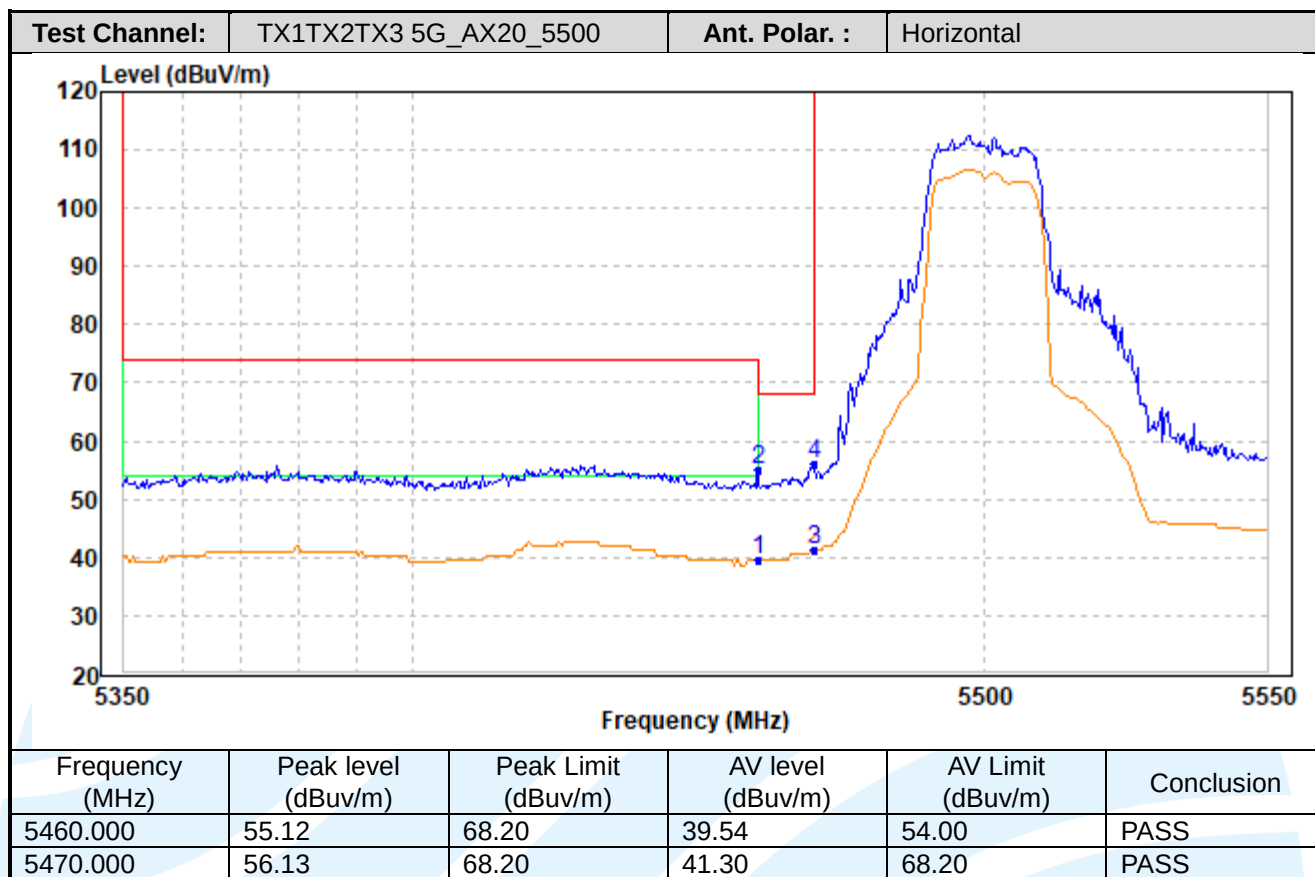
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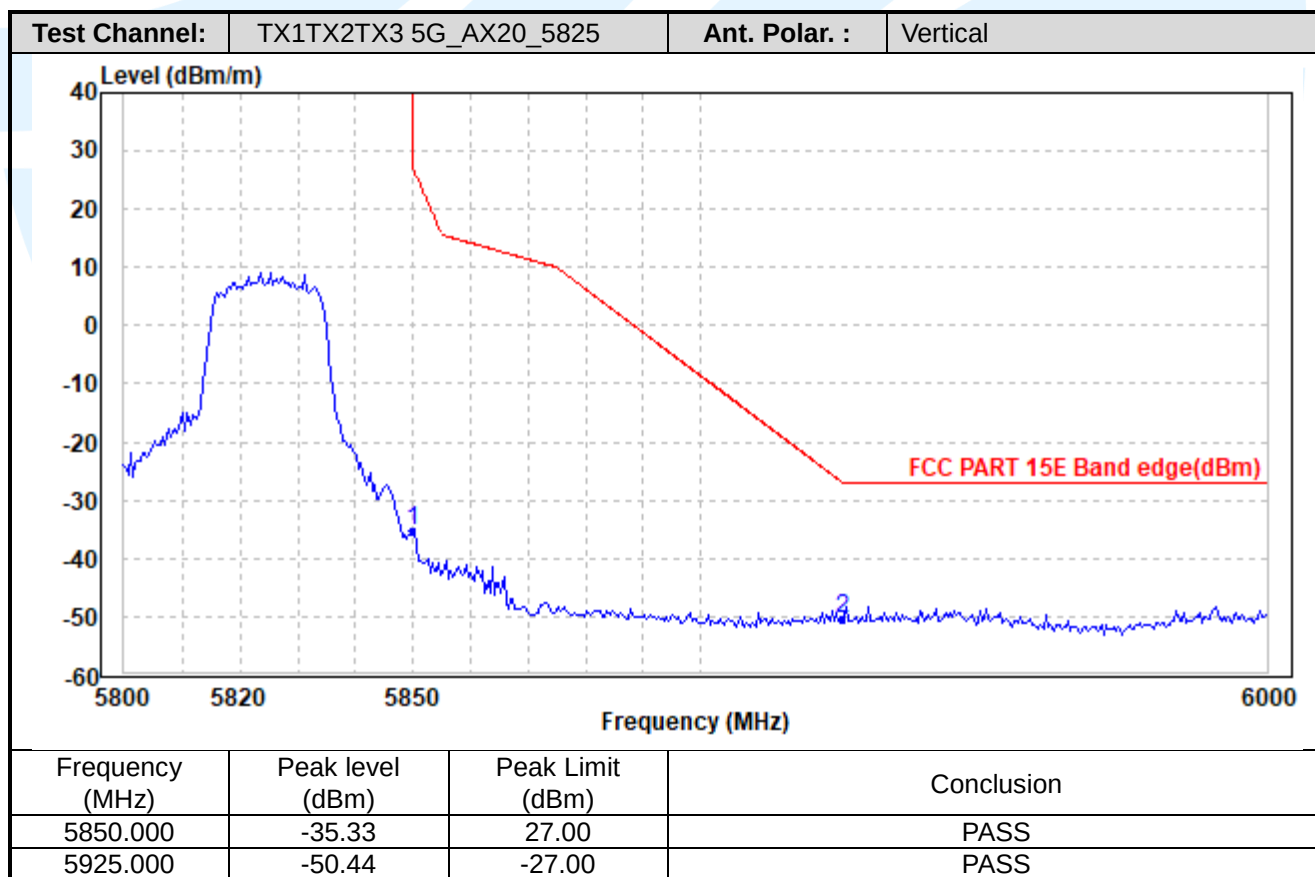
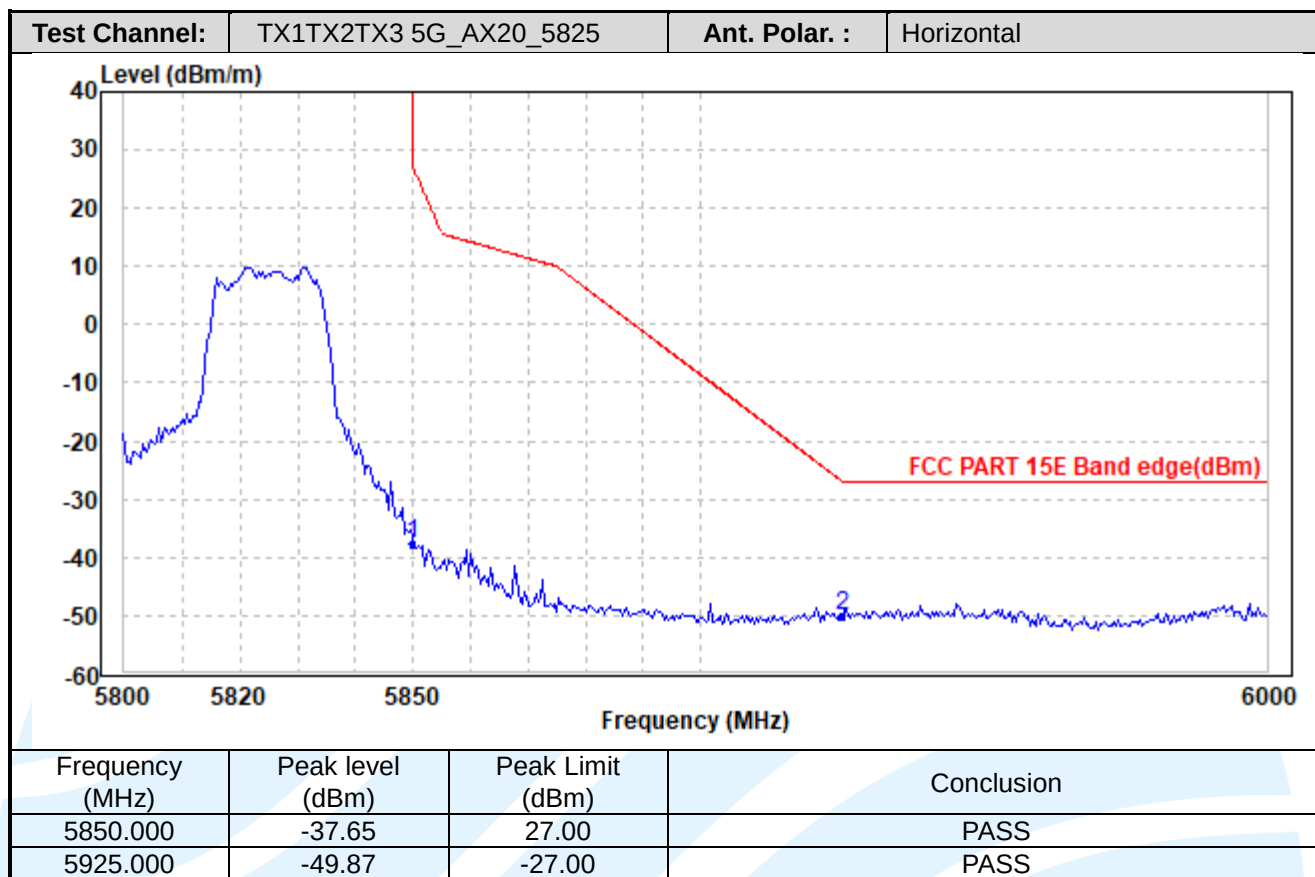
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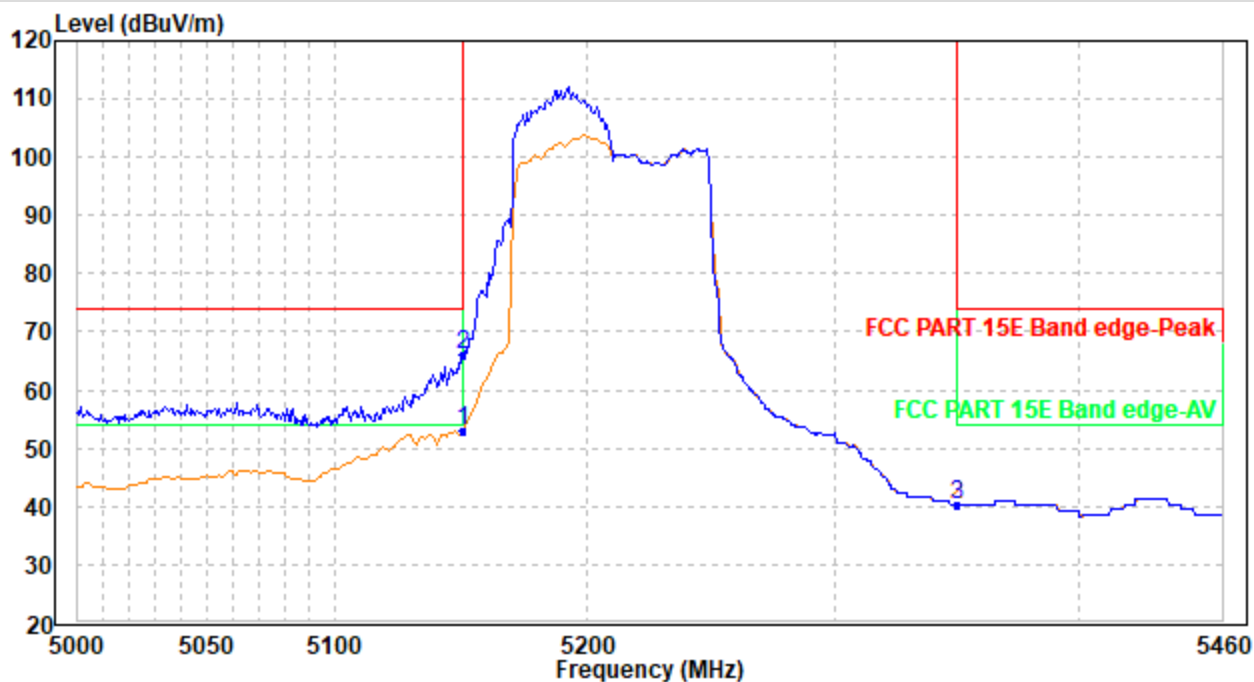




Test Channel: TX1TX2TX3_5G_AX40_5190

Ant Polar:

Horizontal

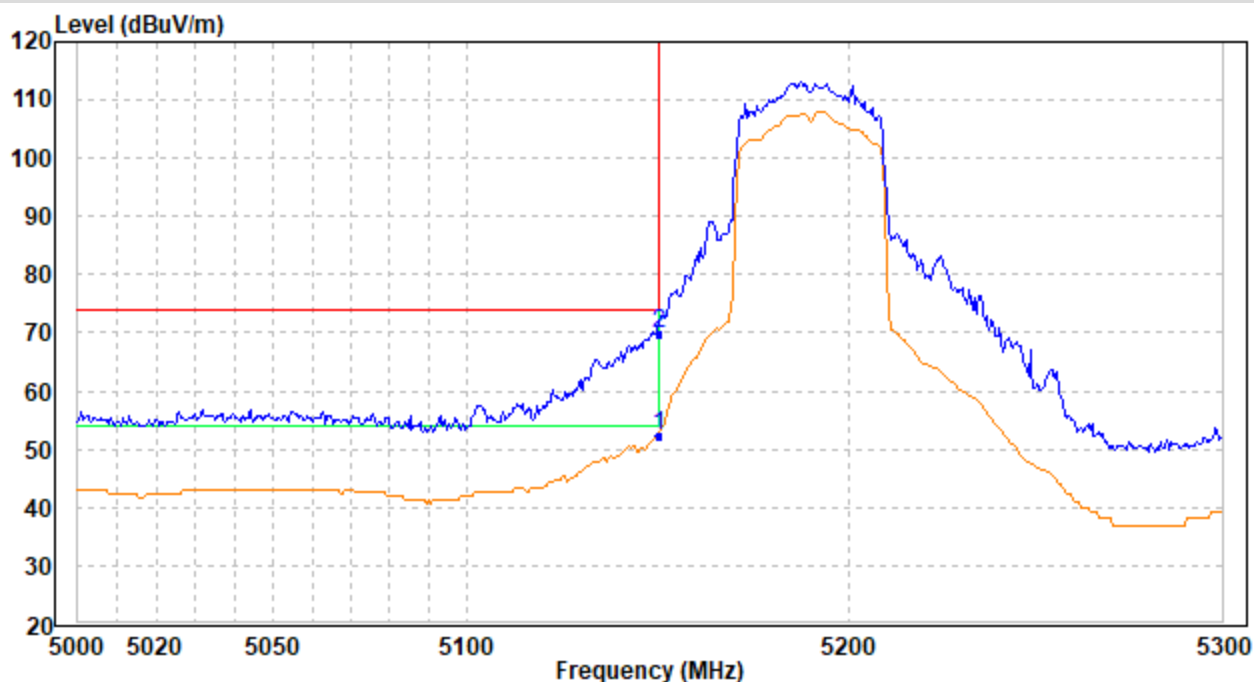


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	66.16	74.00	52.92	54.00	PASS

Test Channel: TX1TX2TX3_5G_AX40_5190

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	69.79	74.00	52.47	54.00	PASS

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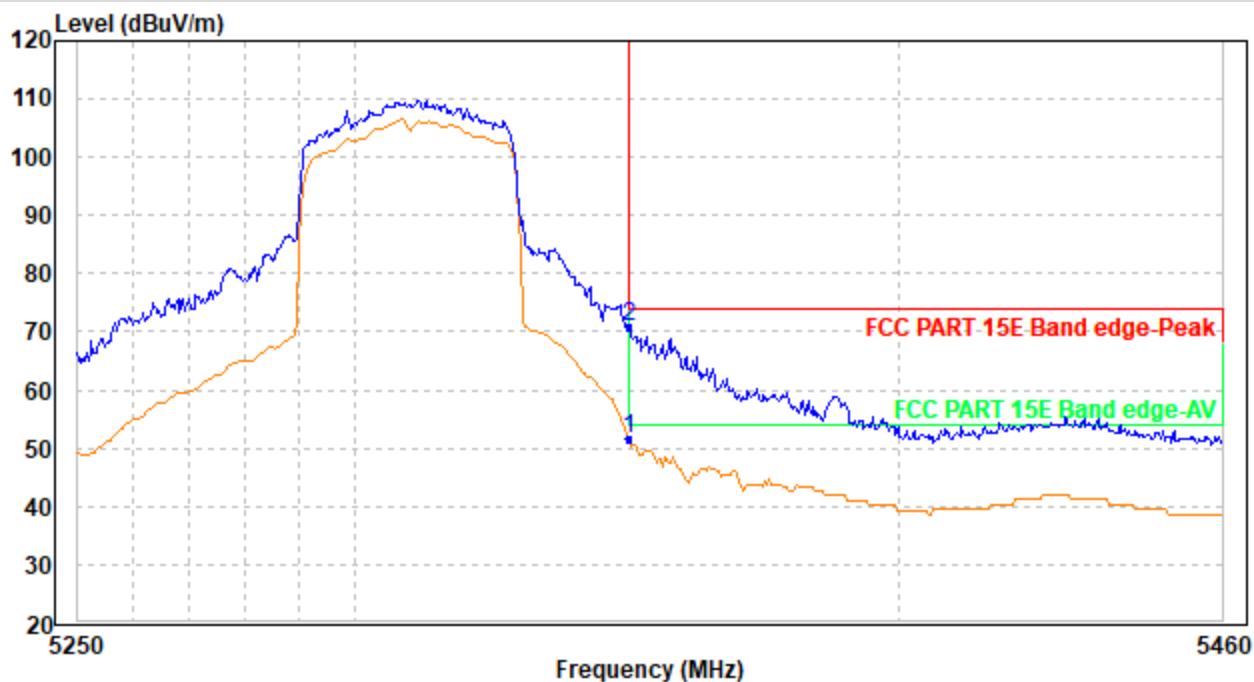
<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

Test Channel: TX1TX2TX3_5G_AX40_5310

Ant Polar:

Horizontal

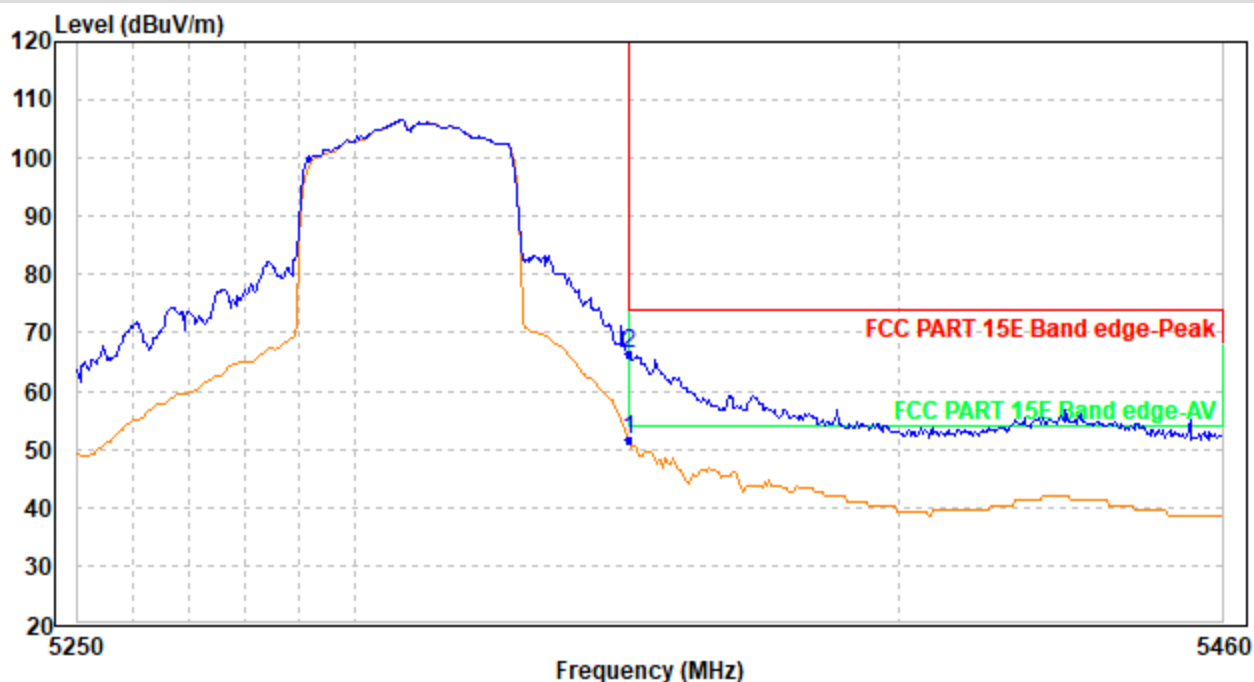


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5350.000	70.75	74.00	51.48	54.00	PASS

Test Channel: TX1TX2TX3_5G_AX40_5310

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5350.000	66.22	74.00	51.48	54.00	PASS

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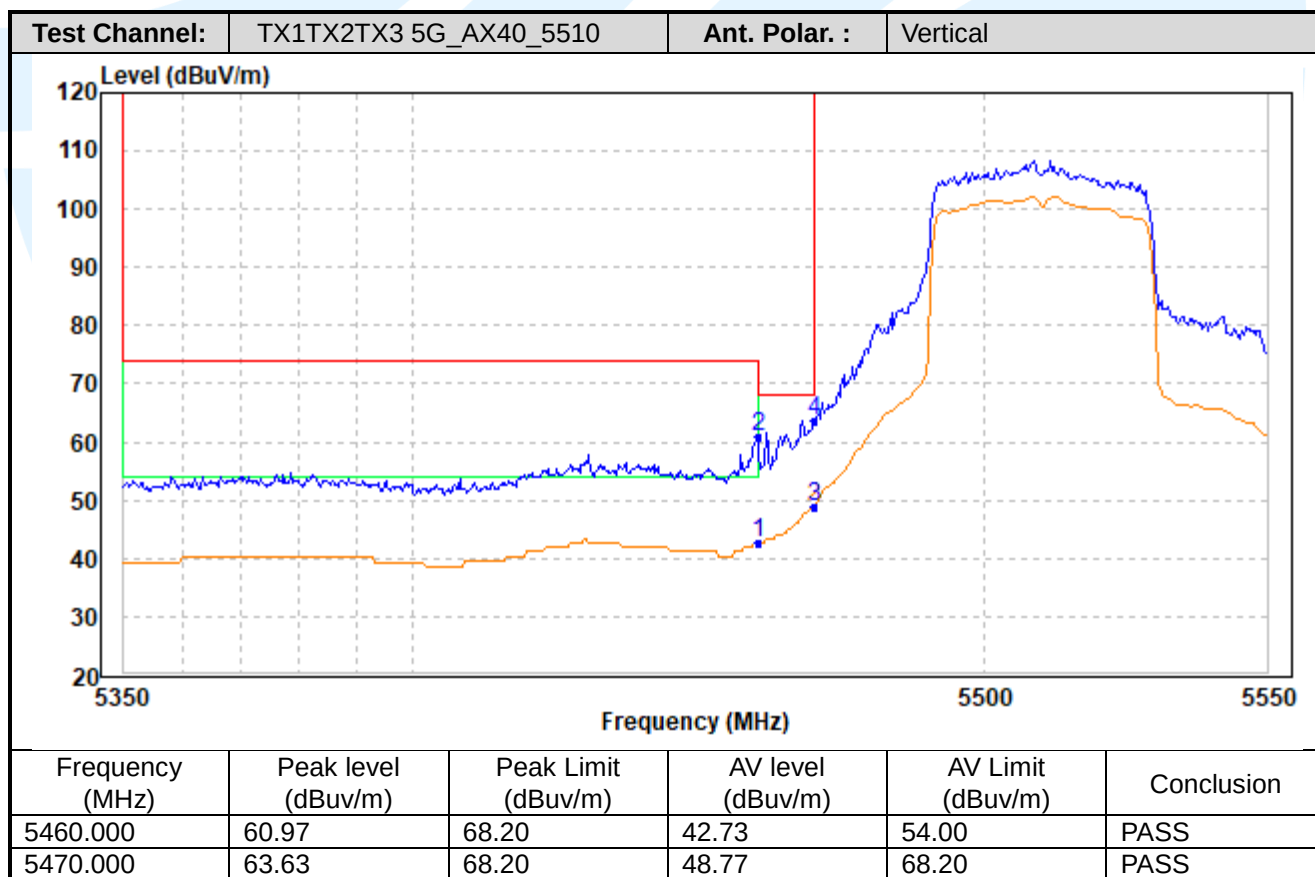
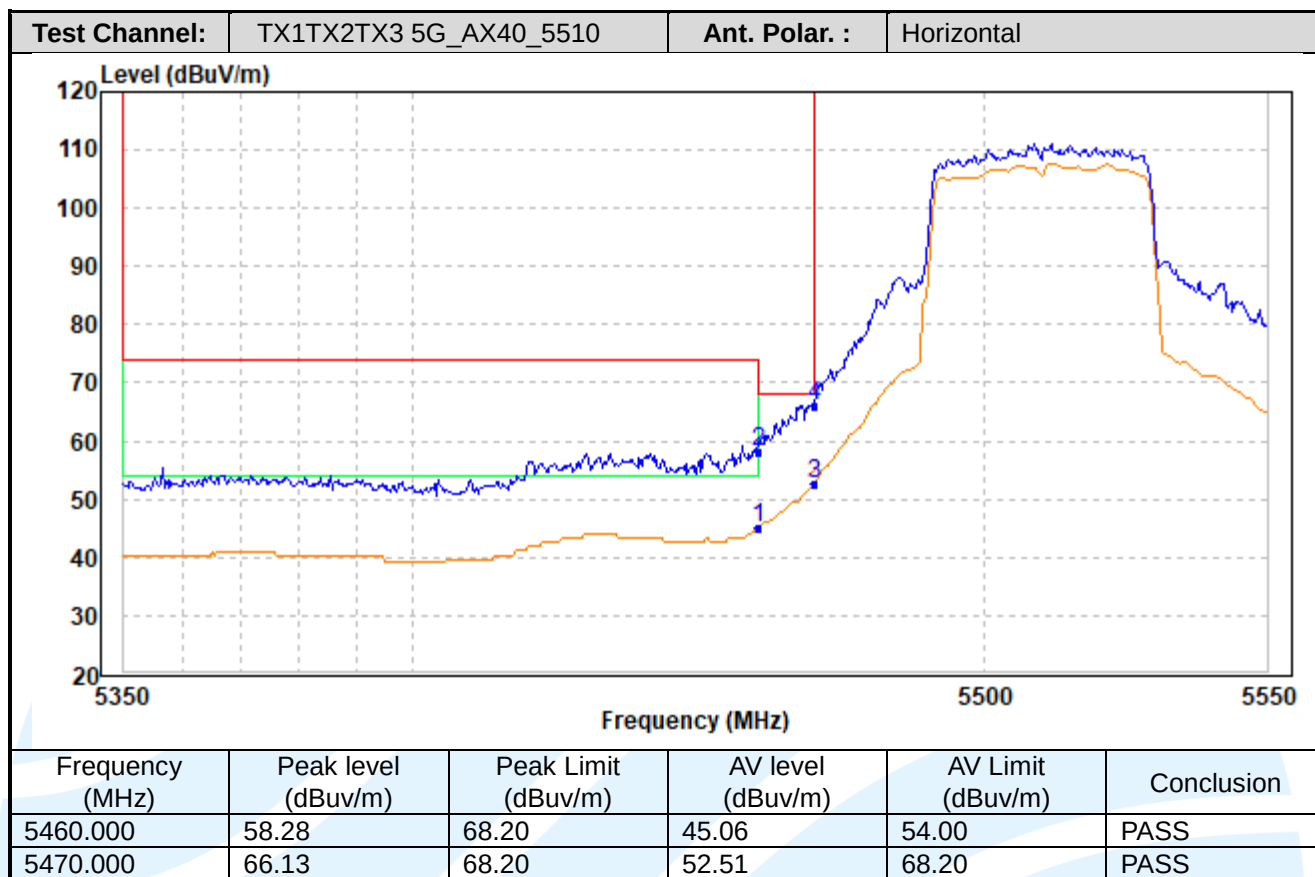
Tel: +86-755-28230888

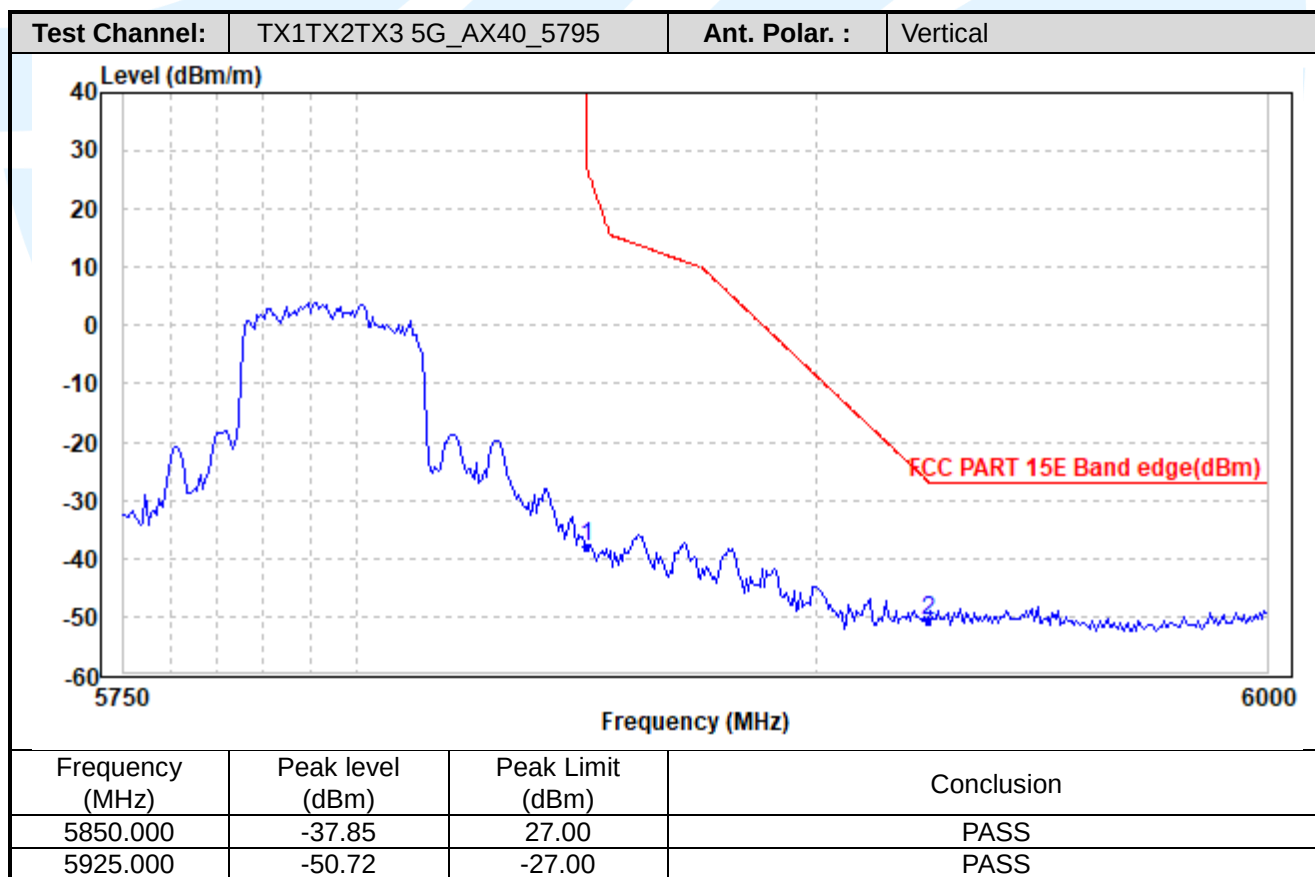
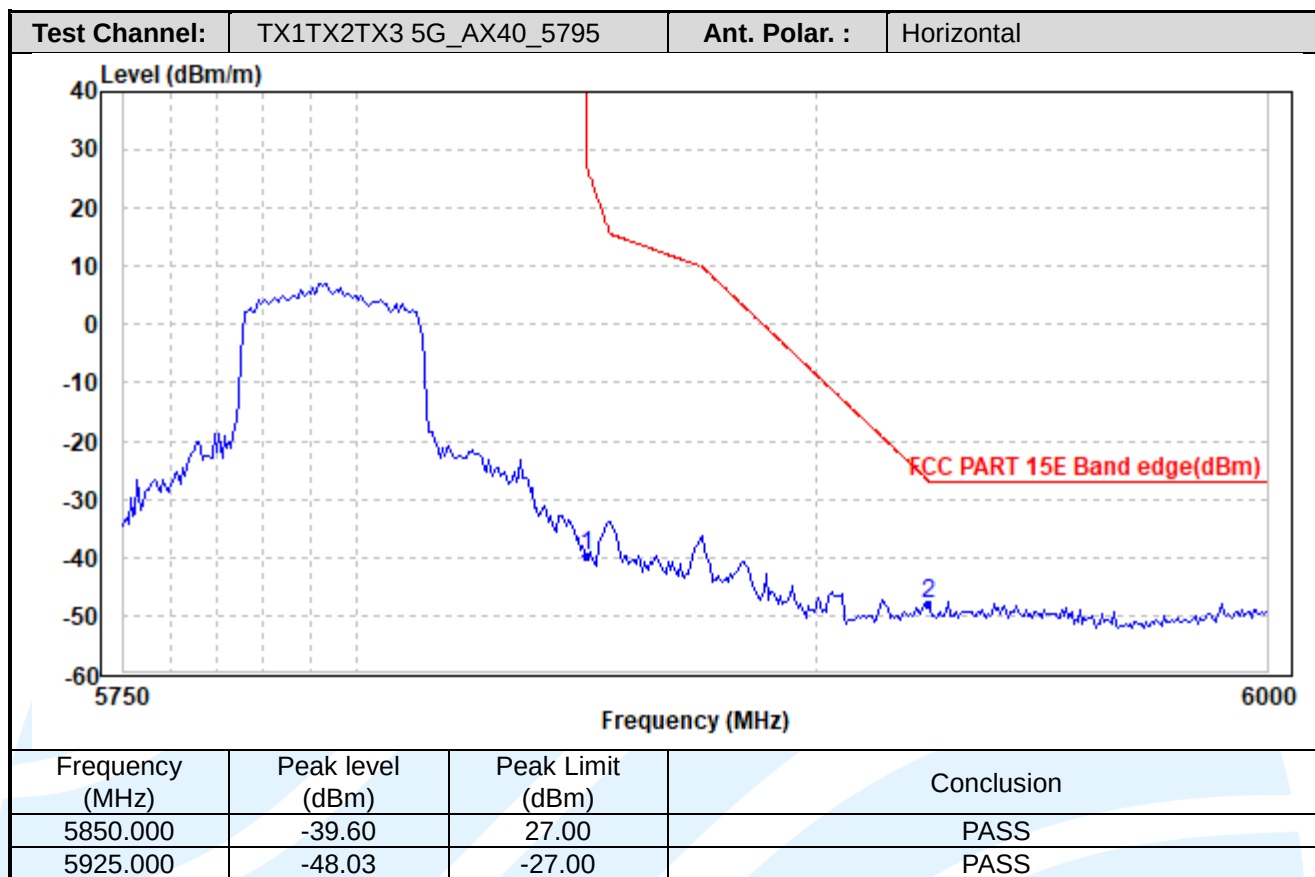
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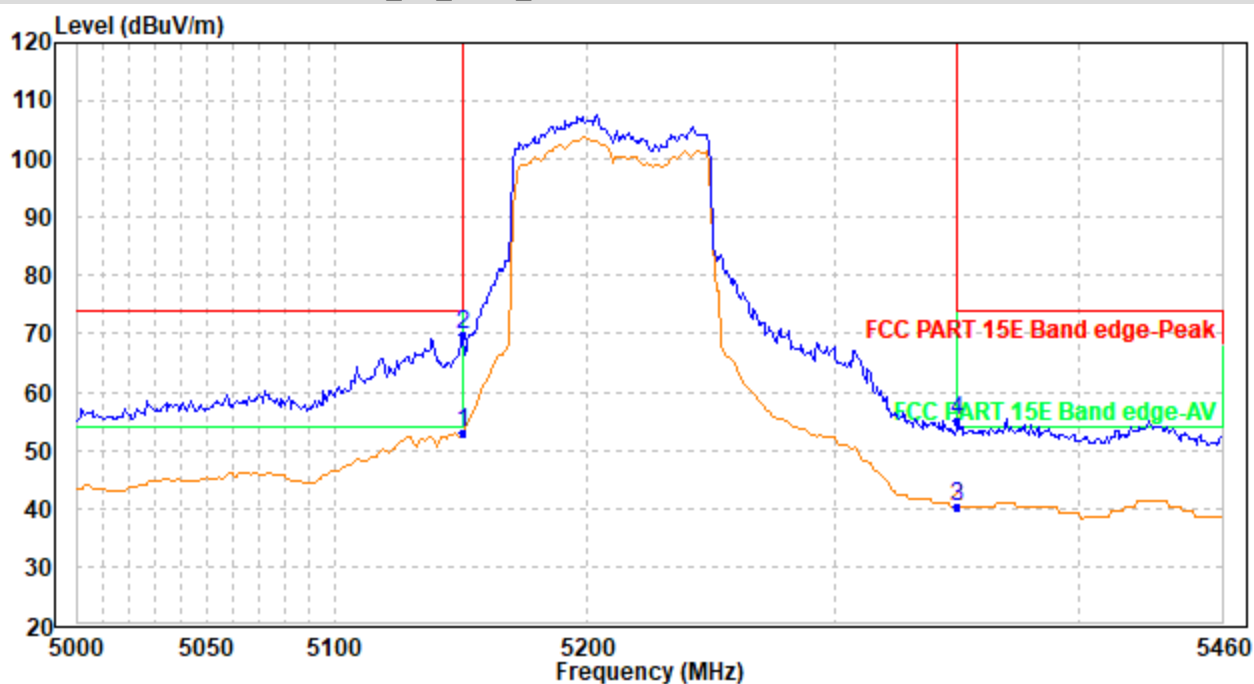




Test Channel: TX1TX2TX3_5G_AX80_5210

Ant Polar:

Horizontal

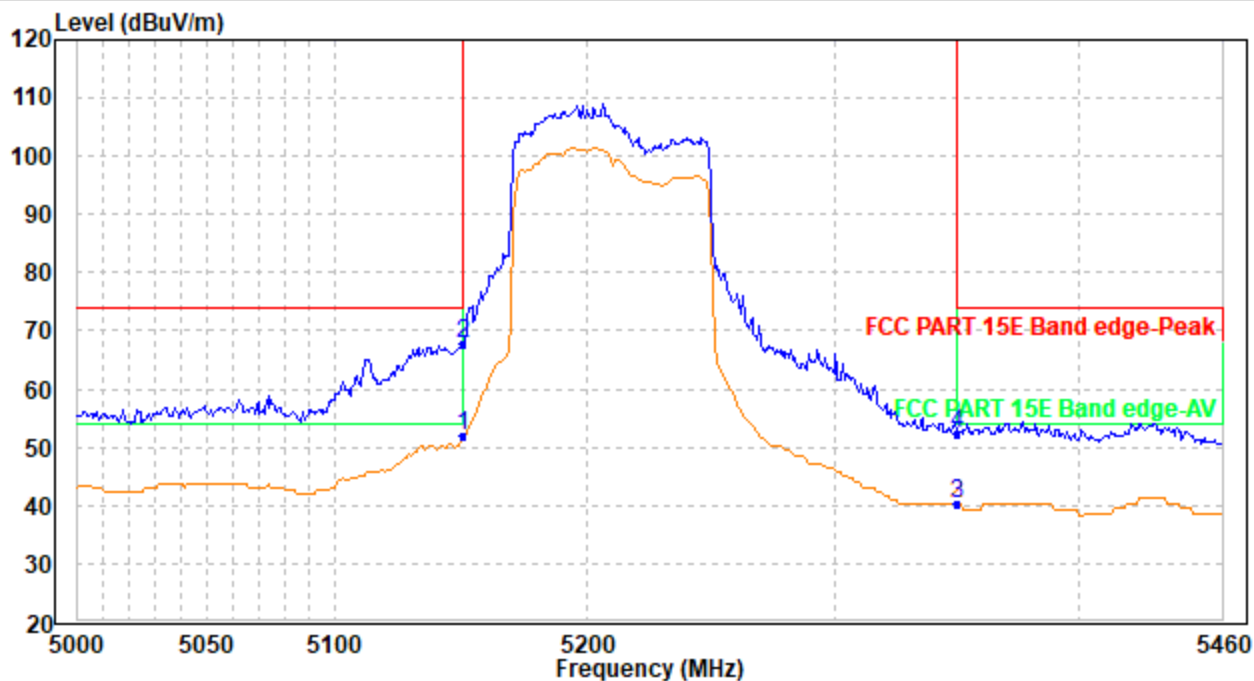


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	69.80	74.00	52.92	54.00	PASS
5350.000	55.13	74.00	40.21	54.00	PASS

Test Channel: TX1TX2TX3_5G_AX80_5210

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	67.64	74.00	51.81	54.00	PASS
5350.000	52.47	74.00	40.21	54.00	PASS

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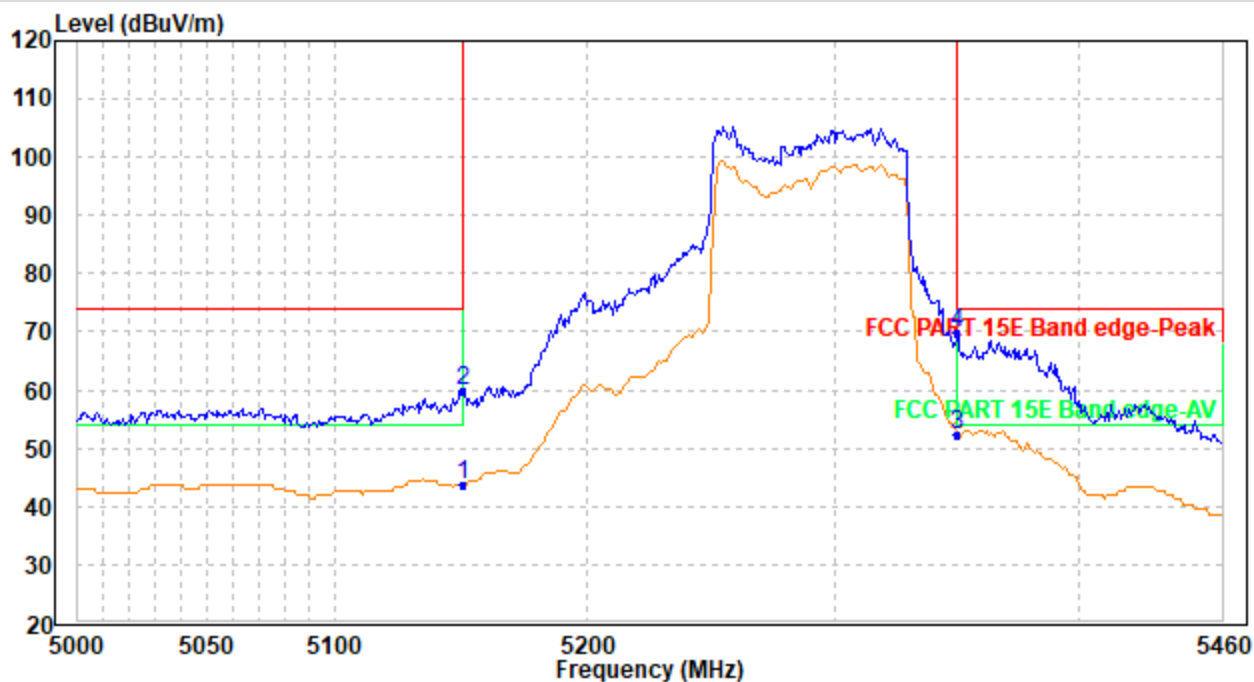
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Test Channel: TX1TX2TX3_5G_AX80_5290

Ant Polar:

Horizontal

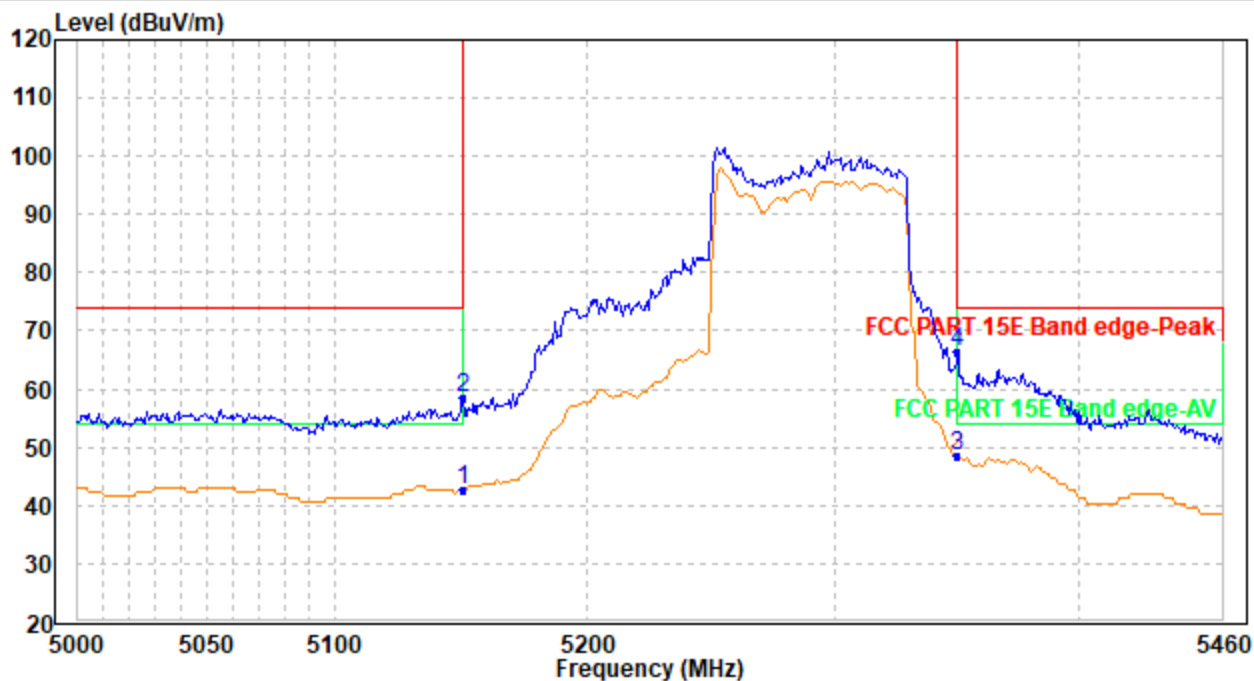


Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	59.82	74.00	43.85	54.00	PASS
5350.000	69.91	74.00	52.46	54.00	PASS

Test Channel: TX1TX2TX3_5G_AX80_5290

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dBμv/m)	Peak Limit (dBμv/m)	AV level (dBμv/m)	AV Limit (dBμv/m)	Conclusion
5150.000	58.35	74.00	42.69	54.00	PASS
5350.000	66.35	74.00	48.51	54.00	PASS

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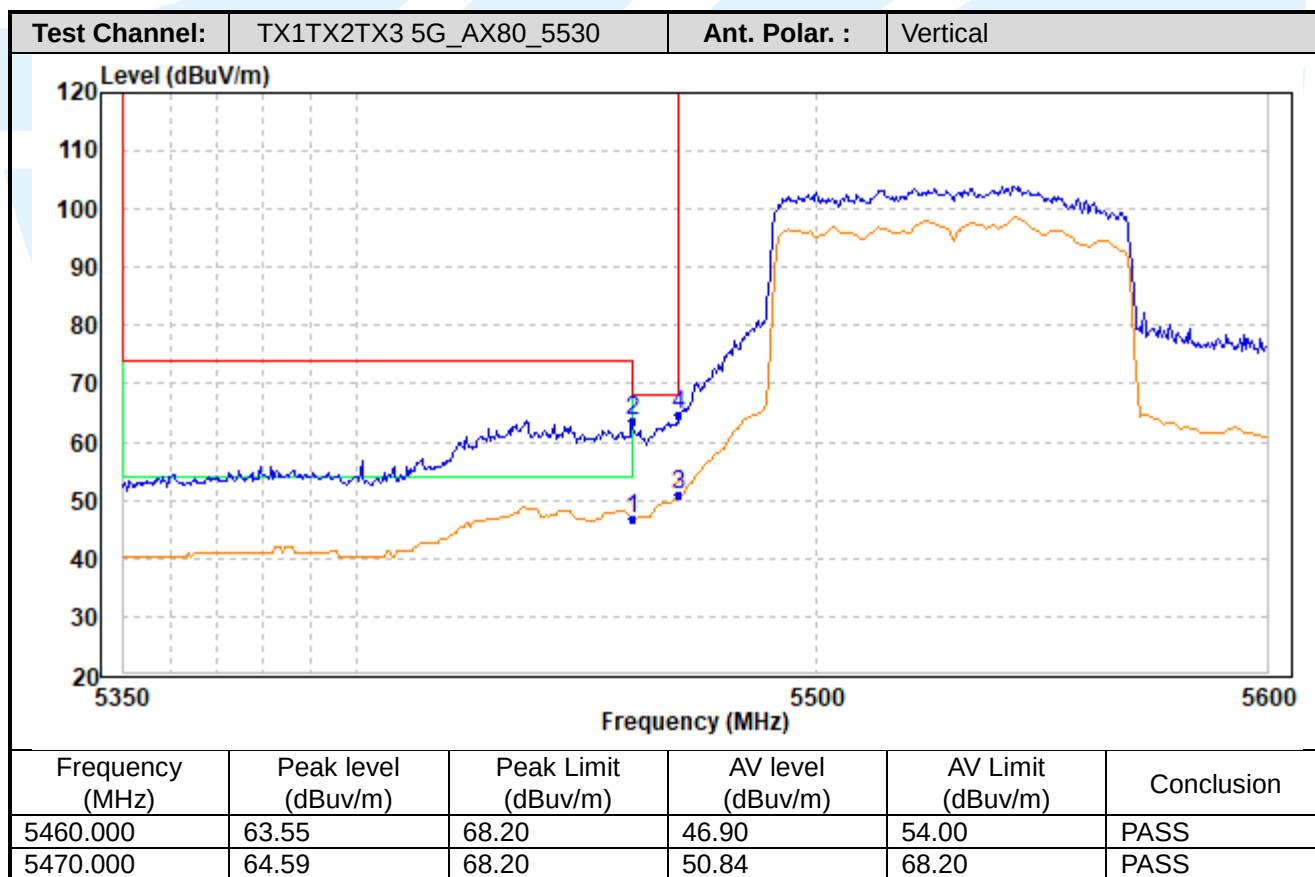
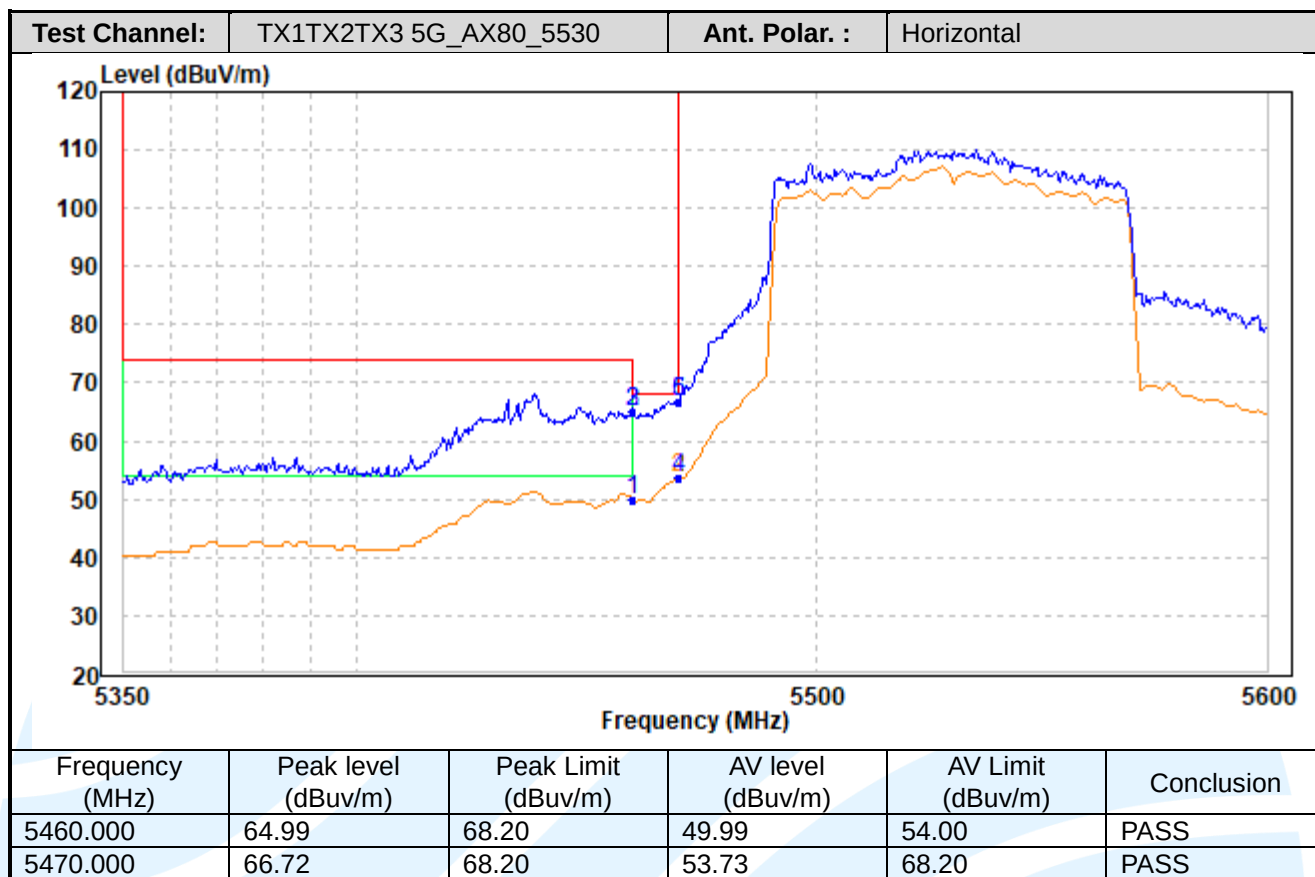
Tel: +86-755-28230888

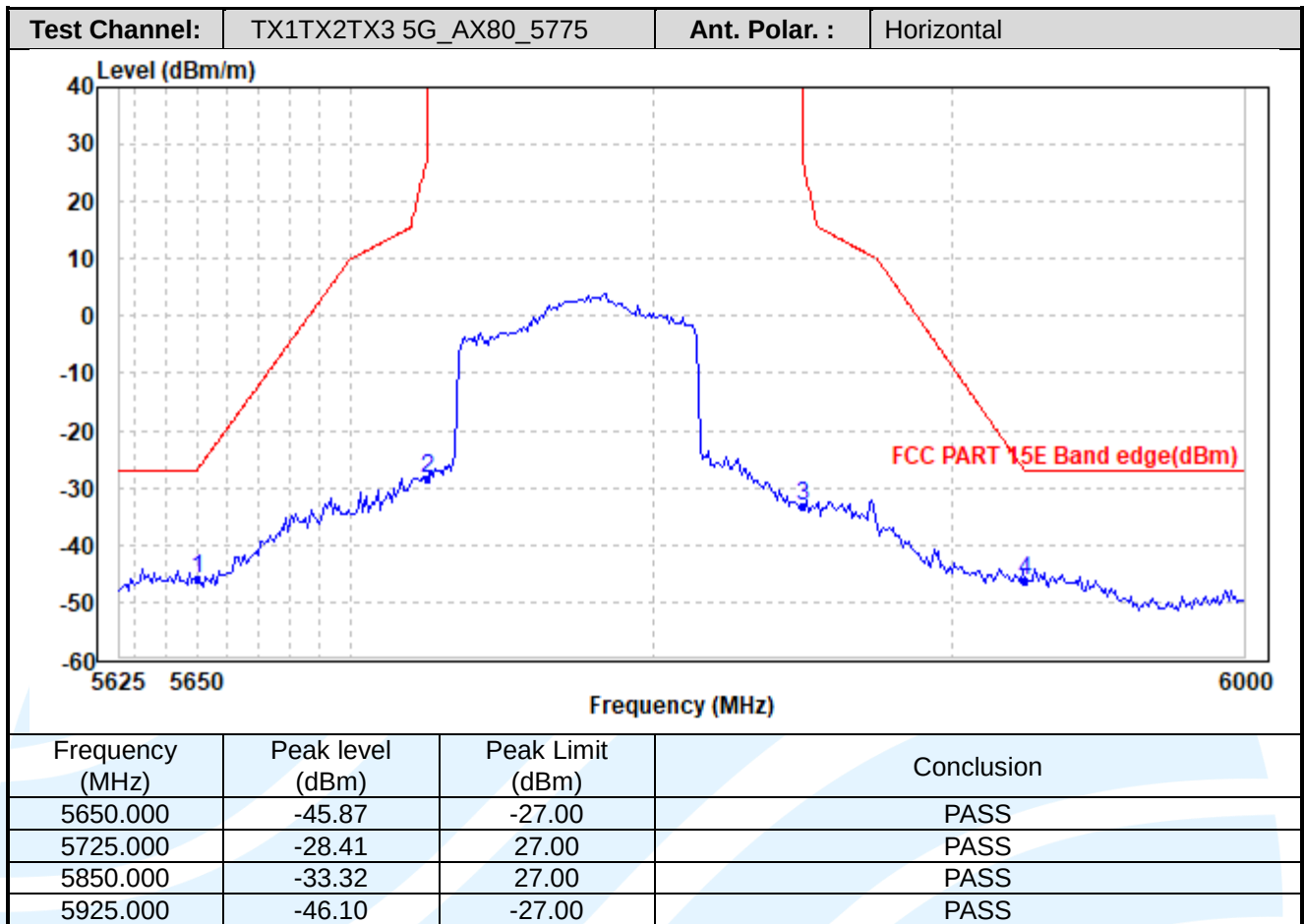
Fax: +86-755-28230886

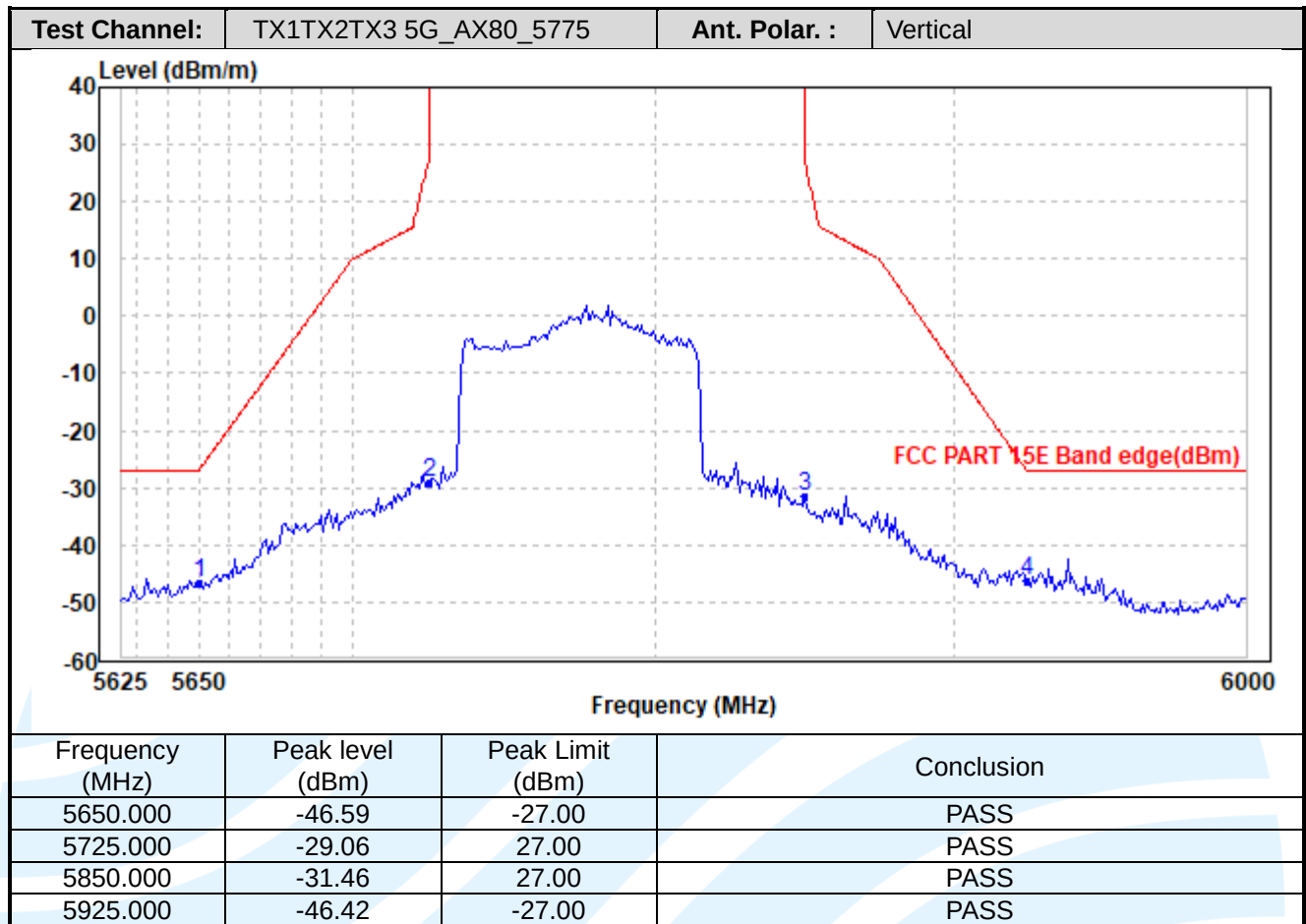
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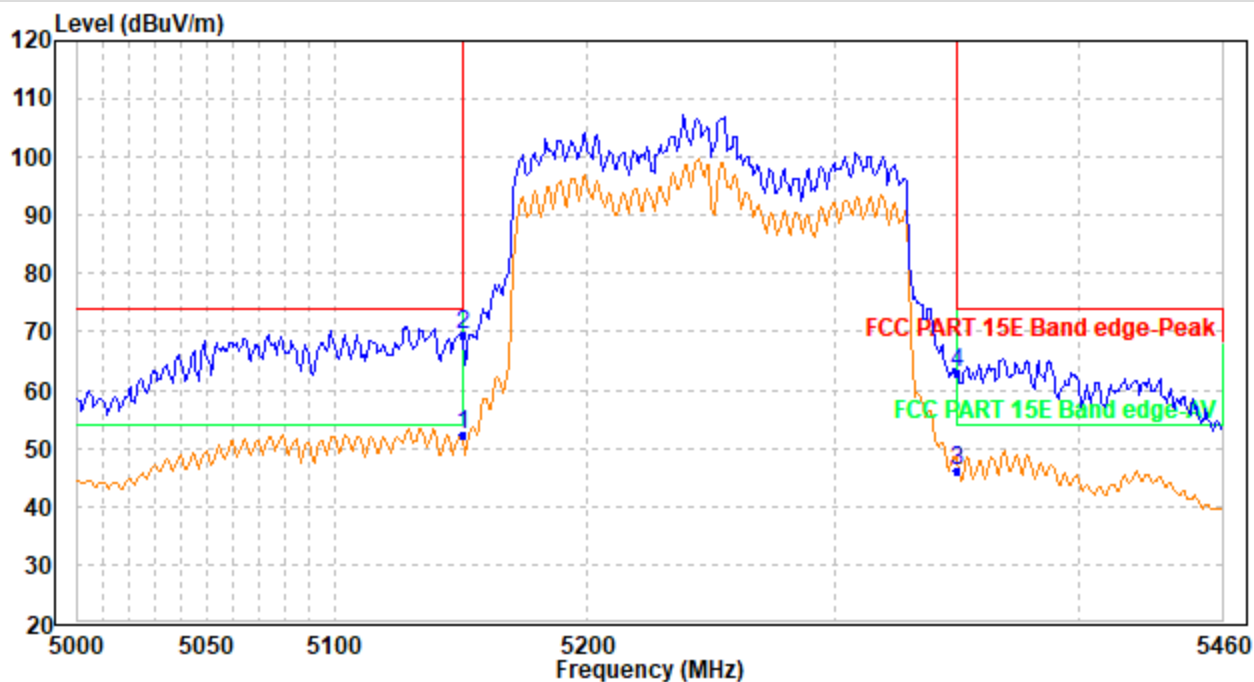




Test Channel: TX1TX2TX3_5G_AX160_5250

Ant Polar:

Horizontal

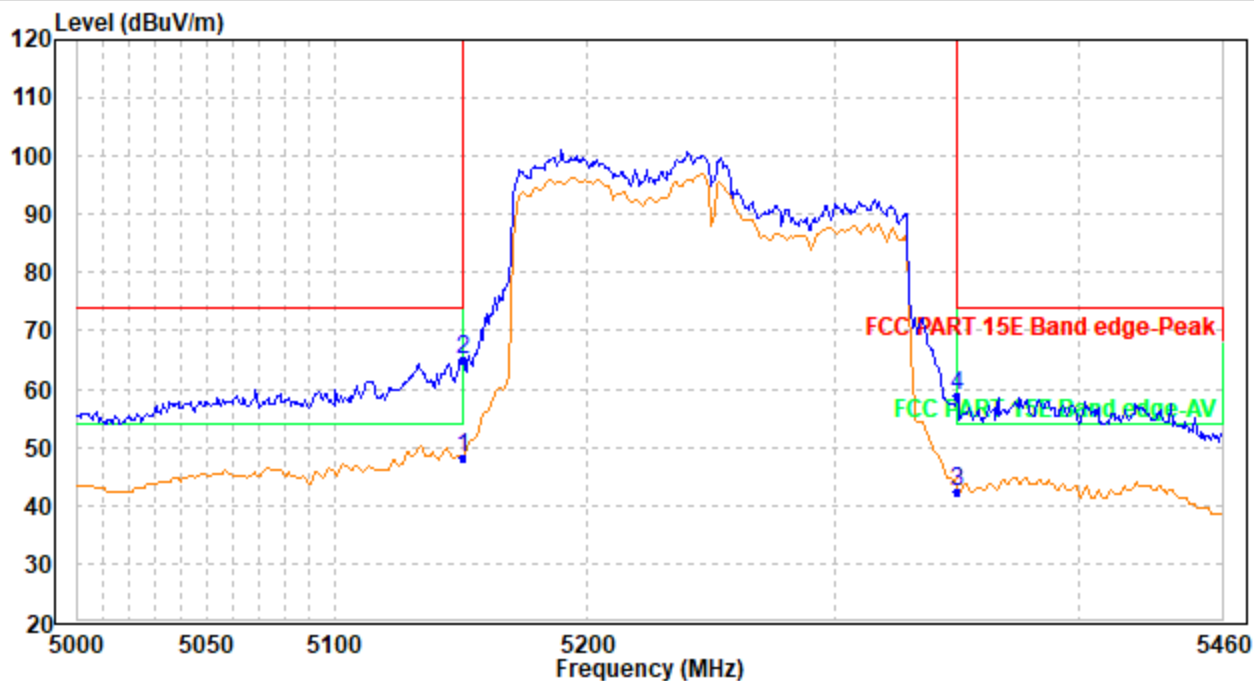


Frequency (MHz)	Peak level (dB μ V/m)	Peak Limit (dB μ V/m)	AV level (dB μ V/m)	AV Limit (dB μ V/m)	Conclusion
5150.000	69.62	74.00	52.14	54.00	PASS
5350.000	62.96	74.00	46.23	54.00	PASS

Test Channel: TX1TX2TX3_5G_AX160_5250

Ant Polar:

Vertical



Frequency (MHz)	Peak level (dB μ V/m)	Peak Limit (dB μ V/m)	AV level (dB μ V/m)	AV Limit (dB μ V/m)	Conclusion
5150.000	65.17	74.00	48.07	54.00	PASS
5350.000	58.94	74.00	42.49	54.00	PASS

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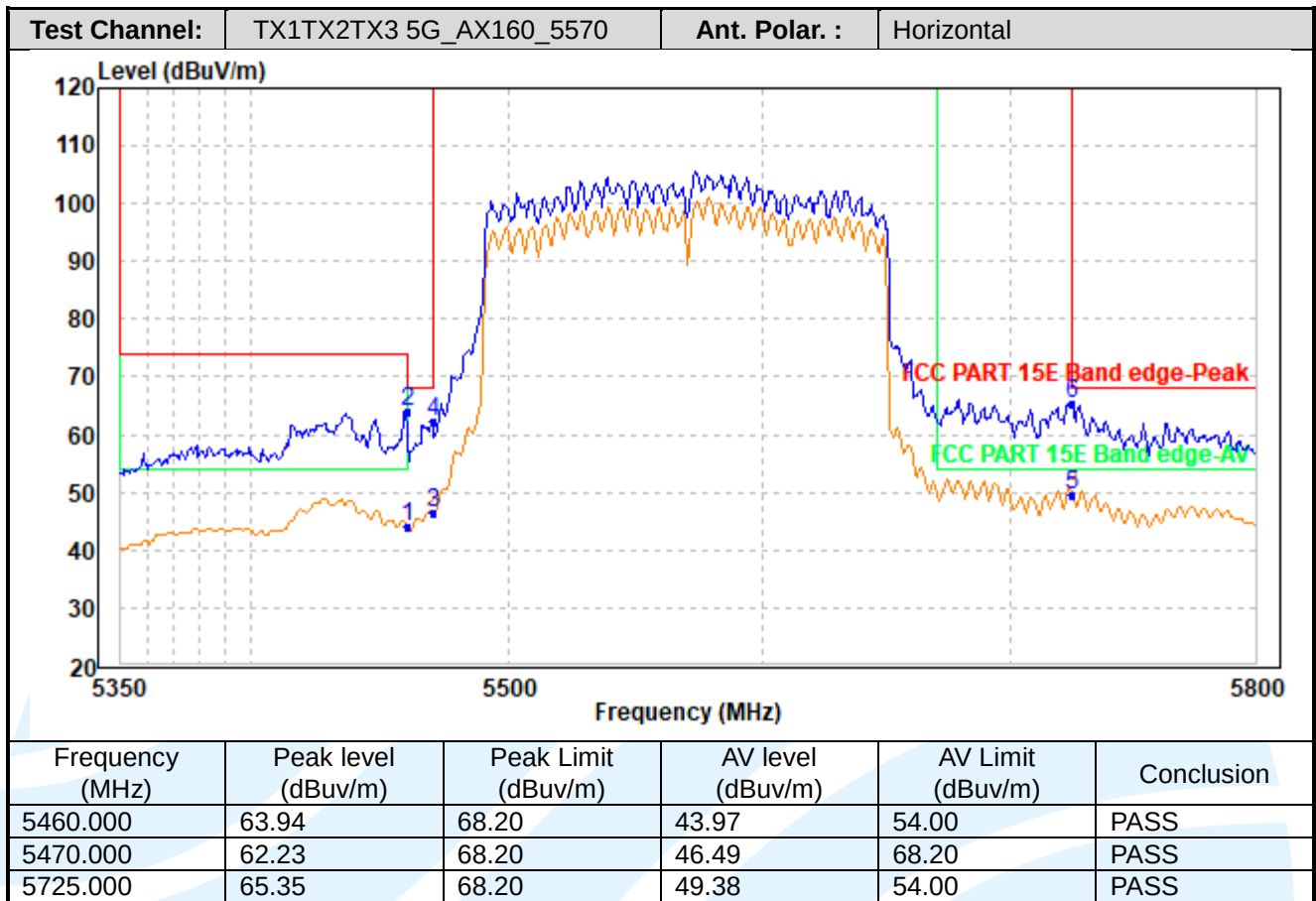
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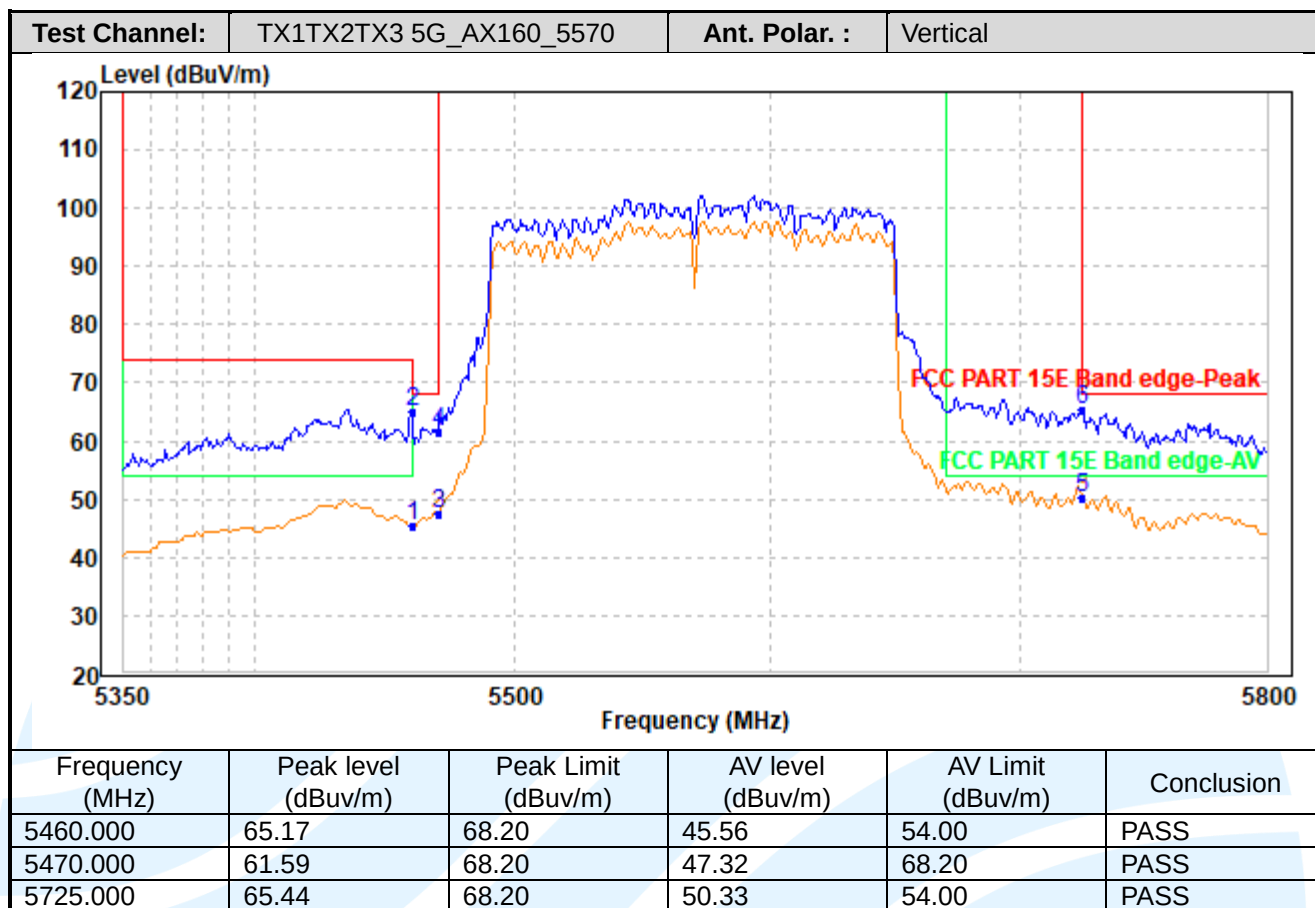
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Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Limit - Result

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5.8 AC POWER LINE CONDUCTED EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.207

Test Method: ANSI C63.10-2020 Section 6.2

Limits:

Frequency range (MHz)	Limits (dB(μV))	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Remark:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.4.2 for details.

Test Procedures:

Test frequency range :150KHz-30MHz

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Equipment Used: Refer to section 3 for details.

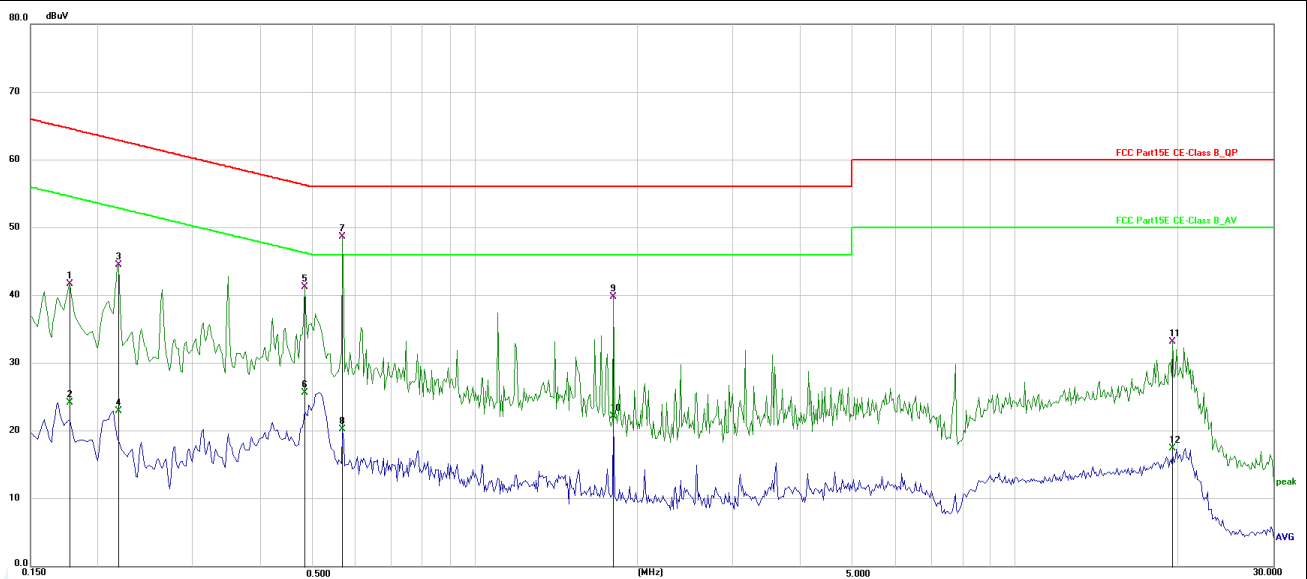
Test Result: Pass

The worst measurement data as follows:

Quasi Peak and Average:

Mode: WIFI Link

Live Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1770	31.87	9.78	41.65	64.63	-22.98	QP
2	0.1770	14.36	9.78	24.14	54.63	-30.49	AVG
3	0.2174	34.72	9.79	44.51	62.92	-18.41	QP
4	0.2174	13.16	9.79	22.95	52.92	-29.97	AVG
5	0.4830	31.48	9.80	41.28	56.29	-15.01	QP
6	0.4830	15.85	9.80	25.65	46.29	-20.64	AVG
7	0.5685	38.82	9.79	48.61	56.00	-7.39	QP
8	0.5685	10.43	9.79	20.22	46.00	-25.78	AVG
9	1.8015	30.01	9.71	39.72	56.00	-16.28	QP
10	1.8015	12.46	9.71	22.17	46.00	-23.83	AVG
11	19.6350	23.21	9.91	33.12	60.00	-26.88	QP
12	19.6350	7.55	9.91	17.46	50.00	-32.54	AVG

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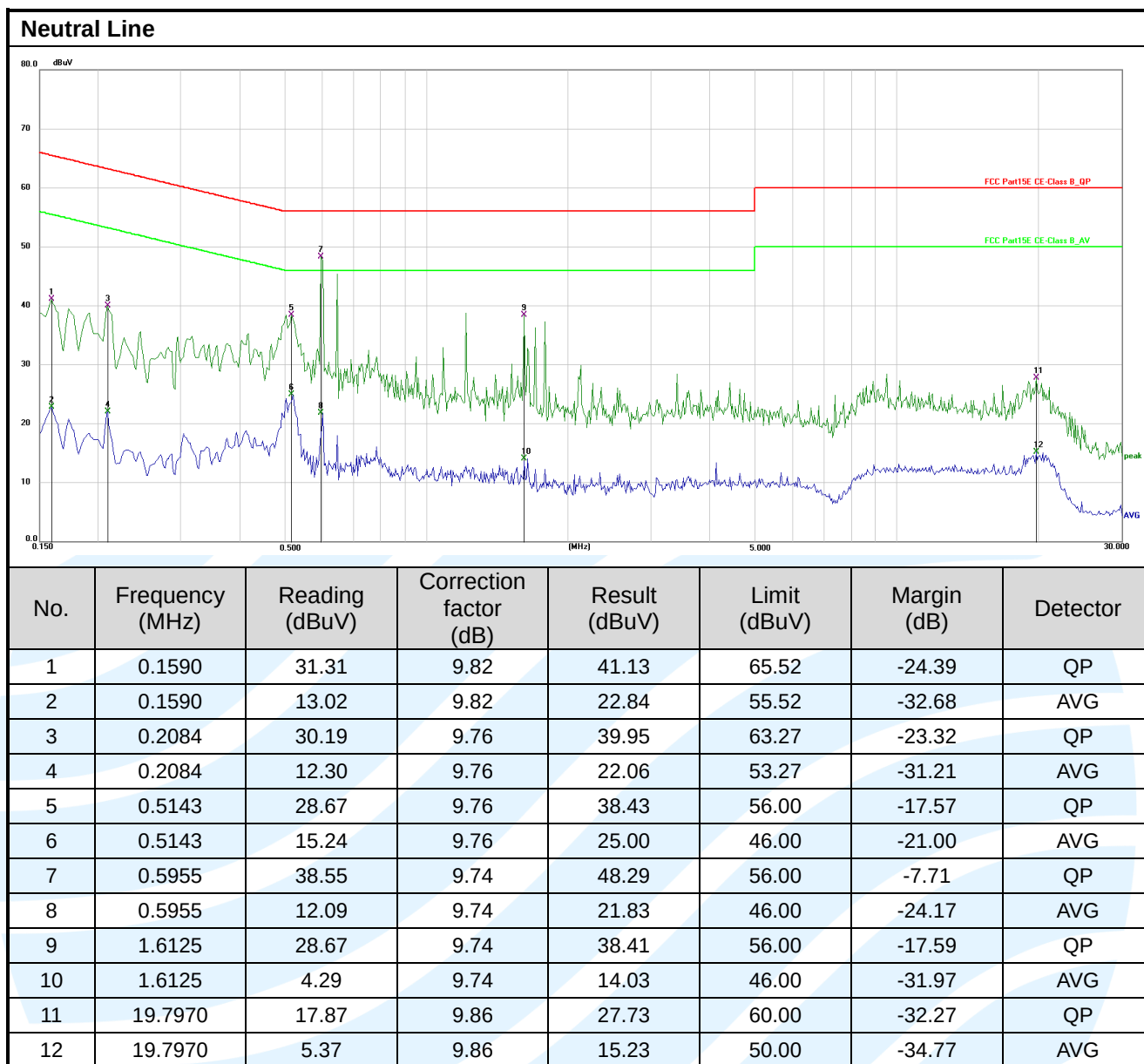
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Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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APPENDIX A RF TEST DATA

A.1 99% & 26DB BANDWIDTH

For U-NII-1, U-NII-2A, U-NII-2C and U-NII-3 Band:

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	26 DB [MHz]
11A	Ant1	5180	17.766	5171.1404	5188.9064	32.08
11A	Ant2	5180	17.399	5171.2768	5188.6758	29.97
11A	Ant3	5180	17.537	5171.2311	5188.7681	30.07
11A	Ant1	5200	17.761	5191.0683	5208.8293	34.26
11A	Ant2	5200	17.427	5191.2828	5208.7098	33.90
11A	Ant3	5200	17.384	5191.2813	5208.6653	30.91
11A	Ant1	5240	18.221	5230.7867	5249.0077	37.20
11A	Ant2	5240	17.412	5231.2965	5248.7085	36.92
11A	Ant3	5240	17.624	5231.1690	5248.7930	32.35
11A	Ant1	5260	17.236	5251.3387	5268.5747	30.84
11A	Ant2	5260	17.030	5251.4605	5268.4905	25.18
11A	Ant3	5260	17.018	5251.4380	5268.4560	23.73
11A	Ant1	5280	17.271	5271.3032	5288.5742	28.45
11A	Ant2	5280	17.057	5271.4323	5288.4893	25.24
11A	Ant3	5280	17.040	5271.4435	5288.4835	24.53
11A	Ant1	5320	17.508	5311.1246	5328.6326	31.62
11A	Ant2	5320	17.377	5311.2279	5328.6049	29.06
11A	Ant3	5320	17.327	5311.2636	5328.5906	30.81
11A	Ant1	5500	17.351	5491.3881	5508.7391	31.24
11A	Ant2	5500	17.176	5491.4292	5508.6052	29.83
11A	Ant3	5500	17.137	5491.4314	5508.5684	26.62
11A	Ant1	5600	17.028	5591.4997	5608.5277	29.59
11A	Ant2	5600	17.066	5591.4611	5608.5271	29.15
11A	Ant3	5600	16.919	5591.5102	5608.4292	21.73
11A	Ant1	5700	17.136	5691.3341	5708.4701	28.89
11A	Ant2	5700	17.249	5691.2686	5708.5176	29.34
11A	Ant3	5700	17.053	5691.3936	5708.4466	25.59
11A	Ant1	5720	17.181	5711.3817	5728.5627	29.19
11A	Ant2	5720	17.180	5711.4033	5728.5833	29.36
11A	Ant3	5720	16.901	5711.5079	5728.4089	22.49
11A	Ant1	5720 UNII-2C	13.618	5711.3817	5725	--
11A	Ant2	5720 UNII-2C	13.597	5711.4033	5725	--
11A	Ant3	5720 UNII-2C	13.492	5711.5079	5725	--
11A	Ant1	5720 UNII-3	3.563	5725	5728.5627	--
11A	Ant2	5720 UNII-3	3.583	5725	5728.5833	--
11A	Ant3	5720 UNII-3	3.409	5725	5728.4089	--
11A	Ant1	5745	17.280	5736.4714	5753.7514	28.40
11A	Ant2	5745	17.175	5736.4894	5753.6644	28.60
11A	Ant3	5745	17.134	5736.4707	5753.6047	29.12
11A	Ant1	5785	17.236	5776.3924	5793.6284	32.41
11A	Ant2	5785	17.290	5776.2566	5793.5466	32.65
11A	Ant3	5785	17.147	5776.3726	5793.5196	30.31
11A	Ant1	5825	17.426	5816.1406	5833.5666	31.29
11A	Ant2	5825	17.442	5816.0904	5833.5324	29.89
11A	Ant3	5825	17.219	5816.2846	5833.5036	29.34
11N20MIMO	Ant1	5180	18.545	5170.7227	5189.2677	32.12
11N20MIMO	Ant2	5180	18.216	5170.7690	5188.9850	28.89
11N20MIMO	Ant3	5180	18.284	5170.7490	5189.0330	28.03
11N20MIMO	Ant1	5200	18.541	5190.7080	5209.2490	33.76
11N20MIMO	Ant2	5200	18.095	5190.9367	5209.0317	27.40
11N20MIMO	Ant3	5200	18.258	5190.7596	5209.0176	34.50
11N20MIMO	Ant1	5240	18.391	5230.8179	5249.2089	37.06
11N20MIMO	Ant2	5240	17.927	5231.0452	5248.9722	29.57
11N20MIMO	Ant3	5240	18.085	5231.1054	5249.1904	29.28
11N20MIMO	Ant1	5260	18.148	5250.9167	5269.0647	22.86
11N20MIMO	Ant2	5260	17.897	5251.0104	5268.9074	21.61
11N20MIMO	Ant3	5260	17.895	5251.0422	5268.9372	21.99
11N20MIMO	Ant1	5280	18.152	5270.8873	5289.0393	22.91

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11N20MIMO	Ant2	5280	17.871	5271.0035	5288.8745	21.58
11N20MIMO	Ant3	5280	17.885	5270.9921	5288.8771	21.76
11N20MIMO	Ant1	5320	18.549	5310.6267	5329.1757	32.38
11N20MIMO	Ant2	5320	18.298	5310.9707	5329.2687	29.39
11N20MIMO	Ant3	5320	18.307	5310.8012	5329.1082	29.88
11N20MIMO	Ant1	5500	18.270	5490.8974	5509.1674	27.88
11N20MIMO	Ant2	5500	18.145	5490.8934	5509.0384	29.03
11N20MIMO	Ant3	5500	18.132	5490.8517	5508.9837	27.14
11N20MIMO	Ant1	5600	17.977	5590.9944	5608.9714	22.88
11N20MIMO	Ant2	5600	17.858	5591.0596	5608.9176	21.67
11N20MIMO	Ant3	5600	17.910	5591.0028	5608.9128	22.29
11N20MIMO	Ant1	5700	18.215	5690.8117	5709.0267	26.97
11N20MIMO	Ant2	5700	18.097	5690.8110	5708.9080	26.01
11N20MIMO	Ant3	5700	18.104	5690.7967	5708.9007	28.49
11N20MIMO	Ant1	5720	18.030	5710.9527	5728.9827	22.20
11N20MIMO	Ant2	5720	17.888	5711.0232	5728.9112	21.80
11N20MIMO	Ant3	5720	17.932	5710.9488	5728.8808	21.94
11N20MIMO	Ant1	5720 UNII-2C	14.047	5710.9527	5725	--
11N20MIMO	Ant2	5720 UNII-2C	13.977	5711.0232	5725	--
11N20MIMO	Ant3	5720 UNII-2C	14.051	5710.9488	5725	--
11N20MIMO	Ant1	5720 UNII-3	3.983	5725	5728.9827	--
11N20MIMO	Ant2	5720 UNII-3	3.911	5725	5728.9112	--
11N20MIMO	Ant3	5720 UNII-3	3.881	5725	5728.8808	--
11N20MIMO	Ant1	5745	18.296	5735.9162	5754.2122	26.68
11N20MIMO	Ant2	5745	18.084	5736.0526	5754.1366	25.94
11N20MIMO	Ant3	5745	18.716	5735.6281	5754.3441	38.05
11N20MIMO	Ant1	5785	18.195	5775.9089	5794.1039	27.71
11N20MIMO	Ant2	5785	18.118	5775.9102	5794.0282	27.18
11N20MIMO	Ant3	5785	18.008	5776.0207	5794.0287	30.66
11N20MIMO	Ant1	5825	18.297	5815.7565	5834.0535	28.92
11N20MIMO	Ant2	5825	18.296	5815.6495	5833.9455	27.11
11N20MIMO	Ant3	5825	18.146	5815.7769	5833.9229	26.80
11N40MIMO	Ant1	5190	36.990	5171.6092	5208.5992	61.22
11N40MIMO	Ant2	5190	36.767	5171.5681	5208.3351	57.39
11N40MIMO	Ant3	5190	36.837	5171.3626	5208.1996	53.49
11N40MIMO	Ant1	5230	37.149	5211.3979	5248.5469	68.70
11N40MIMO	Ant2	5230	36.304	5212.0395	5248.3435	50.10
11N40MIMO	Ant3	5230	36.828	5211.7884	5248.6164	54.97
11N40MIMO	Ant1	5270	36.532	5251.7463	5288.2783	41.58
11N40MIMO	Ant2	5270	36.282	5251.7553	5288.0373	40.96
11N40MIMO	Ant3	5270	36.261	5251.7960	5288.0570	40.75
11N40MIMO	Ant1	5310	36.880	5291.4559	5328.3359	56.21
11N40MIMO	Ant2	5310	36.896	5291.5690	5328.4650	61.75
11N40MIMO	Ant3	5310	37.252	5291.0809	5328.3329	65.86
11N40MIMO	Ant1	5510	36.483	5491.7530	5528.2360	54.09
11N40MIMO	Ant2	5510	36.401	5491.7978	5528.1988	48.51
11N40MIMO	Ant3	5510	36.367	5491.6013	5527.9683	43.30
11N40MIMO	Ant1	5590	36.229	5571.8719	5608.1009	41.30
11N40MIMO	Ant2	5590	36.322	5571.7606	5608.0826	41.28
11N40MIMO	Ant3	5590	36.075	5571.9210	5607.9960	40.79
11N40MIMO	Ant1	5670	36.653	5651.6805	5688.3335	60.59
11N40MIMO	Ant2	5670	36.454	5651.8161	5688.2701	58.19
11N40MIMO	Ant3	5670	36.298	5652.0874	5688.3854	45.85
11N40MIMO	Ant1	5710	36.207	5691.8936	5728.1006	41.22
11N40MIMO	Ant2	5710	36.214	5691.7625	5727.9765	41.24
11N40MIMO	Ant3	5710	36.099	5691.7993	5727.8983	40.63
11N40MIMO	Ant1	5710 UNII-2C	33.106	5691.8936	5725	--
11N40MIMO	Ant2	5710 UNII-2C	33.238	5691.7625	5725	--
11N40MIMO	Ant3	5710 UNII-2C	33.201	5691.7993	5725	--
11N40MIMO	Ant1	5710 UNII-3	3.101	5725	5728.1006	--
11N40MIMO	Ant2	5710 UNII-3	2.976	5725	5727.9765	--
11N40MIMO	Ant3	5710 UNII-3	2.898	5725	5727.8983	--
11N40MIMO	Ant1	5755	36.606	5736.8168	5773.4228	54.32

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UTTR-RF-FCCPART15.407-V1.3

11N40MIMO	Ant2	5755	36.442	5737.0415	5773.4835	52.45
11N40MIMO	Ant3	5755	36.907	5736.9308	5773.8378	54.37
11N40MIMO	Ant1	5795	36.546	5776.7289	5813.2749	59.76
11N40MIMO	Ant2	5795	36.487	5776.6463	5813.1333	54.35
11N40MIMO	Ant3	5795	36.533	5776.7308	5813.2638	54.74
11AC20MIMO	Ant1	5180	18.522	5170.7694	5189.2914	31.57
11AC20MIMO	Ant2	5180	18.165	5170.8813	5189.0463	30.27
11AC20MIMO	Ant3	5180	18.245	5170.7655	5189.0105	29.10
11AC20MIMO	Ant1	5200	18.635	5190.6803	5209.3153	34.66
11AC20MIMO	Ant2	5200	18.192	5190.9293	5209.1213	29.15
11AC20MIMO	Ant3	5200	18.333	5190.6849	5209.0179	31.59
11AC20MIMO	Ant1	5240	18.369	5230.7905	5249.1595	36.26
11AC20MIMO	Ant2	5240	18.031	5231.0422	5249.0732	25.90
11AC20MIMO	Ant3	5240	18.077	5231.1146	5249.1916	30.41
11AC20MIMO	Ant1	5260	18.161	5250.8892	5269.0502	22.75
11AC20MIMO	Ant2	5260	17.929	5251.0186	5268.9476	22.13
11AC20MIMO	Ant3	5260	17.858	5251.0892	5268.9472	21.82
11AC20MIMO	Ant1	5280	18.132	5270.9140	5289.0460	22.82
11AC20MIMO	Ant2	5280	17.913	5270.9928	5288.9058	22.37
11AC20MIMO	Ant3	5280	17.855	5271.0046	5288.8596	22.09
11AC20MIMO	Ant1	5320	18.462	5310.6938	5329.1558	35.28
11AC20MIMO	Ant2	5320	18.317	5310.9856	5329.3026	30.26
11AC20MIMO	Ant3	5320	18.335	5310.7938	5329.1288	31.79
11AC20MIMO	Ant1	5500	18.220	5490.8736	5509.0936	31.94
11AC20MIMO	Ant2	5500	18.197	5490.9707	5509.1677	25.24
11AC20MIMO	Ant3	5500	18.050	5490.9235	5508.9735	25.75
11AC20MIMO	Ant1	5600	18.013	5590.9921	5609.0051	22.19
11AC20MIMO	Ant2	5600	17.936	5591.0572	5608.9932	22.11
11AC20MIMO	Ant3	5600	17.896	5590.9947	5608.8907	21.48
11AC20MIMO	Ant1	5700	18.255	5690.8126	5709.0676	28.45
11AC20MIMO	Ant2	5700	18.096	5690.8368	5708.9328	27.26
11AC20MIMO	Ant3	5700	18.074	5690.8616	5708.9356	27.59
11AC20MIMO	Ant1	5720	18.055	5710.9147	5728.9697	22.61
11AC20MIMO	Ant2	5720	17.929	5711.0641	5728.9931	21.95
11AC20MIMO	Ant3	5720	17.878	5710.9832	5728.8612	21.61
11AC20MIMO	Ant1	5720 UNII-2C	14.085	5710.9147	5725	--
11AC20MIMO	Ant2	5720 UNII-2C	13.936	5711.0641	5725	--
11AC20MIMO	Ant3	5720 UNII-2C	14.017	5710.9832	5725	--
11AC20MIMO	Ant1	5720 UNII-3	3.97	5725	5728.9697	--
11AC20MIMO	Ant2	5720 UNII-3	3.993	5725	5728.9931	--
11AC20MIMO	Ant3	5720 UNII-3	3.861	5725	5728.8612	--
11AC20MIMO	Ant1	5745	18.299	5735.9168	5754.2158	28.40
11AC20MIMO	Ant2	5745	18.182	5736.0839	5754.2659	24.70
11AC20MIMO	Ant3	5745	18.751	5735.6810	5754.4320	37.75
11AC20MIMO	Ant1	5785	18.317	5775.8470	5794.1640	32.83
11AC20MIMO	Ant2	5785	18.180	5775.9344	5794.1144	28.90
11AC20MIMO	Ant3	5785	18.017	5776.0767	5794.0937	28.61
11AC20MIMO	Ant1	5825	18.294	5815.7778	5834.0718	29.16
11AC20MIMO	Ant2	5825	18.382	5815.6129	5833.9949	31.98
11AC20MIMO	Ant3	5825	18.191	5815.7602	5833.9512	30.43
11AC40MIMO	Ant1	5190	37.049	5171.6462	5208.6952	65.25
11AC40MIMO	Ant2	5190	36.835	5171.5427	5208.3777	58.01
11AC40MIMO	Ant3	5190	36.838	5171.3631	5208.2011	54.60
11AC40MIMO	Ant1	5230	37.083	5211.4144	5248.4974	66.82
11AC40MIMO	Ant2	5230	36.458	5212.0145	5248.4725	45.78
11AC40MIMO	Ant3	5230	36.778	5211.8039	5248.5819	48.58
11AC40MIMO	Ant1	5270	36.477	5251.7474	5288.2244	41.58
11AC40MIMO	Ant2	5270	36.357	5251.7978	5288.1548	40.88
11AC40MIMO	Ant3	5270	36.232	5251.8455	5288.0775	41.05
11AC40MIMO	Ant1	5310	36.947	5291.4196	5328.3666	61.30
11AC40MIMO	Ant2	5310	37.089	5291.4640	5328.5530	63.19
11AC40MIMO	Ant3	5310	37.530	5290.7648	5328.2948	59.64
11AC40MIMO	Ant1	5510	36.530	5491.7591	5528.2891	53.30

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UTTR-RF-FCCPART15.407-V1.3

11AC40MIMO	Ant2	5510	36.550	5491.8486	5528.3986	54.71
11AC40MIMO	Ant3	5510	36.321	5491.6123	5527.9333	49.28
11AC40MIMO	Ant1	5590	36.180	5571.9209	5608.1009	40.97
11AC40MIMO	Ant2	5590	36.431	5571.8192	5608.2502	41.04
11AC40MIMO	Ant3	5590	36.086	5571.9141	5608.0001	40.68
11AC40MIMO	Ant1	5670	36.637	5651.7043	5688.3413	60.76
11AC40MIMO	Ant2	5670	36.583	5651.8459	5688.4289	55.39
11AC40MIMO	Ant3	5670	36.301	5652.1269	5688.4279	49.91
11AC40MIMO	Ant1	5710	36.177	5691.9210	5728.0980	41.12
11AC40MIMO	Ant2	5710	36.481	5691.8128	5728.2938	40.74
11AC40MIMO	Ant3	5710	36.212	5691.7058	5727.9178	40.50
11AC40MIMO	Ant1	5710 UNII-2C	33.079	5691.9210	5725	--
11AC40MIMO	Ant2	5710 UNII-2C	33.187	5691.8128	5725	--
11AC40MIMO	Ant3	5710 UNII-2C	33.294	5691.7058	5725	--
11AC40MIMO	Ant1	5710 UNII-3	3.098	5725	5728.0980	--
11AC40MIMO	Ant2	5710 UNII-3	3.294	5725	5728.2938	--
11AC40MIMO	Ant3	5710 UNII-3	2.918	5725	5727.9178	--
11AC40MIMO	Ant1	5755	36.608	5736.8729	5773.4809	55.64
11AC40MIMO	Ant2	5755	36.705	5736.9683	5773.6733	55.00
11AC40MIMO	Ant3	5755	36.907	5736.9058	5773.8128	54.51
11AC40MIMO	Ant1	5795	36.551	5776.7681	5813.3191	56.40
11AC40MIMO	Ant2	5795	36.662	5776.6242	5813.2862	65.38
11AC40MIMO	Ant3	5795	36.449	5776.8169	5813.2659	54.49
11AC80MIMO	Ant1	5210	75.852	5172.1608	5248.0128	114.0
11AC80MIMO	Ant2	5210	76.297	5172.1516	5248.4486	110.9
11AC80MIMO	Ant3	5210	76.571	5171.8347	5248.4057	121.3
11AC80MIMO	Ant1	5290	75.856	5251.8971	5327.7531	107.1
11AC80MIMO	Ant2	5290	76.183	5251.6261	5327.8091	117.6
11AC80MIMO	Ant3	5290	75.337	5251.8917	5327.2287	96.88
11AC80MIMO	Ant1	5530	75.786	5492.2891	5568.0751	96.12
11AC80MIMO	Ant2	5530	75.903	5492.3494	5568.2524	97.34
11AC80MIMO	Ant3	5530	76.588	5491.9253	5568.5133	121.0
11AC80MIMO	Ant1	5610	75.320	5572.3554	5647.6754	80.26
11AC80MIMO	Ant2	5610	75.783	5572.1048	5647.8878	80.42
11AC80MIMO	Ant3	5610	75.180	5572.1289	5647.3089	79.97
11AC80MIMO	Ant1	5690	75.461	5652.3069	5727.7679	80.45
11AC80MIMO	Ant2	5690	75.315	5652.2506	5727.5656	80.17
11AC80MIMO	Ant3	5690	74.423	5652.8240	5727.2470	79.79
11AC80MIMO	Ant1	5690 UNII-2C	72.693	5652.3069	5725	--
11AC80MIMO	Ant2	5690 UNII-2C	72.749	5652.2506	5725	--
11AC80MIMO	Ant3	5690 UNII-2C	72.176	5652.8240	5725	--
11AC80MIMO	Ant1	5690 UNII-3	2.768	5725	5727.7679	--
11AC80MIMO	Ant2	5690 UNII-3	2.566	5725	5727.5656	--
11AC80MIMO	Ant3	5690 UNII-3	2.247	5725	5727.2470	--
11AC80MIMO	Ant1	5775	75.739	5737.2342	5812.9732	100.7
11AC80MIMO	Ant2	5775	75.226	5737.5504	5812.7764	87.62
11AC80MIMO	Ant3	5775	75.332	5737.6697	5813.0017	91.02
11AC160MIMO	Ant1	5250	155.15	5172.2858	5327.4358	173.6
11AC160MIMO	Ant2	5250	155.71	5172.2001	5327.9101	238.4
11AC160MIMO	Ant3	5250	154.70	5172.1505	5326.8505	167.2
11AC160MIMO	Ant1	5250 UNII-1	77.111	5172.8889	5250	--
11AC160MIMO	Ant2	5250 UNII-1	77.401	5172.5990	5250	--
11AC160MIMO	Ant3	5250 UNII-1	77.647	5172.3533	5250	--
11AC160MIMO	Ant1	5250 UNII-2A	77.389	5250	5327.3889	--
11AC160MIMO	Ant2	5250 UNII-2A	77.419	5250	5327.4190	--
11AC160MIMO	Ant3	5250 UNII-2A	76.353	5250	5326.3533	--
11AC160MIMO	Ant1	5570	154.11	5493.0630	5647.1730	170.4
11AC160MIMO	Ant2	5570	153.68	5493.4280	5647.1080	170.0
11AC160MIMO	Ant3	5570	153.56	5492.7058	5646.2658	164.3
11AX20MIMO	Ant1	5180	19.342	5170.3531	5189.6951	29.46
11AX20MIMO	Ant2	5180	19.230	5170.3242	5189.5542	28.37
11AX20MIMO	Ant3	5180	19.361	5170.2399	5189.6009	29.70
11AX20MIMO	Ant1	5200	19.274	5190.3552	5209.6292	31.83

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UTTR-RF-FCCPART15.407-V1.3

11AX20MIMO	Ant2	5200	19.369	5190.3401	5209.7091	34.48
11AX20MIMO	Ant3	5200	19.258	5190.2954	5209.5534	29.01
11AX20MIMO	Ant1	5240	19.113	5230.4595	5249.5725	31.13
11AX20MIMO	Ant2	5240	19.021	5230.4967	5249.5177	31.05
11AX20MIMO	Ant3	5240	19.026	5230.5704	5249.5964	27.07
11AX20MIMO	Ant1	5260	19.151	5250.4199	5269.5709	22.36
11AX20MIMO	Ant2	5260	19.069	5250.4367	5269.5057	22.76
11AX20MIMO	Ant3	5260	19.113	5250.4576	5269.5706	22.48
11AX20MIMO	Ant1	5280	19.132	5270.4008	5289.5328	22.58
11AX20MIMO	Ant2	5280	19.081	5270.4179	5289.4989	21.78
11AX20MIMO	Ant3	5280	19.069	5270.4220	5289.4910	21.96
11AX20MIMO	Ant1	5320	19.275	5310.3237	5329.5987	30.24
11AX20MIMO	Ant2	5320	19.290	5310.4317	5329.7217	29.83
11AX20MIMO	Ant3	5320	19.313	5310.3075	5329.6205	30.59
11AX20MIMO	Ant1	5500	19.173	5490.4228	5509.5958	29.00
11AX20MIMO	Ant2	5500	19.165	5490.3937	5509.5587	26.45
11AX20MIMO	Ant3	5500	19.153	5490.3719	5509.5249	26.49
11AX20MIMO	Ant1	5600	19.054	5590.4625	5609.5165	21.92
11AX20MIMO	Ant2	5600	19.053	5590.4381	5609.4911	22.18
11AX20MIMO	Ant3	5600	19.123	5590.3898	5609.5128	22.02
11AX20MIMO	Ant1	5700	19.175	5690.3786	5709.5536	26.73
11AX20MIMO	Ant2	5700	19.133	5690.3192	5709.4522	26.81
11AX20MIMO	Ant3	5700	19.168	5690.3419	5709.5099	26.77
11AX20MIMO	Ant1	5720	19.094	5710.4396	5729.5336	22.30
11AX20MIMO	Ant2	5720	19.055	5710.4622	5729.5172	22.22
11AX20MIMO	Ant3	5720	19.062	5710.3978	5729.4598	21.99
11AX20MIMO	Ant1	5720 UNII-2C	14.56	5710.4396	5725	--
11AX20MIMO	Ant2	5720 UNII-2C	14.538	5710.4622	5725	--
11AX20MIMO	Ant3	5720 UNII-2C	14.602	5710.3978	5725	--
11AX20MIMO	Ant1	5720 UNII-3	4.534	5725	5729.5336	--
11AX20MIMO	Ant2	5720 UNII-3	4.517	5725	5729.5172	--
11AX20MIMO	Ant3	5720 UNII-3	4.46	5725	5729.4598	--
11AX20MIMO	Ant1	5745	19.200	5735.4301	5754.6301	25.43
11AX20MIMO	Ant2	5745	19.260	5735.4914	5754.7514	29.98
11AX20MIMO	Ant3	5745	19.481	5735.3021	5754.7831	32.02
11AX20MIMO	Ant1	5785	19.212	5775.4211	5794.6331	24.26
11AX20MIMO	Ant2	5785	19.308	5775.3232	5794.6312	25.59
11AX20MIMO	Ant3	5785	19.179	5775.4332	5794.6122	24.34
11AX20MIMO	Ant1	5825	19.203	5815.3508	5834.5538	26.00
11AX20MIMO	Ant2	5825	19.362	5815.2175	5834.5795	30.37
11AX20MIMO	Ant3	5825	19.195	5815.3320	5834.5270	30.44
11AX40MIMO	Ant1	5190	37.903	5171.0833	5208.9863	54.18
11AX40MIMO	Ant2	5190	37.997	5170.9386	5208.9356	44.71
11AX40MIMO	Ant3	5190	37.805	5170.9603	5208.7653	47.28
11AX40MIMO	Ant1	5230	38.030	5210.9701	5249.0001	61.48
11AX40MIMO	Ant2	5230	37.775	5211.2713	5249.0463	52.20
11AX40MIMO	Ant3	5230	37.983	5211.1559	5249.1389	51.28
11AX40MIMO	Ant1	5270	37.633	5251.2030	5288.8360	40.11
11AX40MIMO	Ant2	5270	37.596	5251.0974	5288.6934	39.85
11AX40MIMO	Ant3	5270	37.540	5251.2759	5288.8159	40.02
11AX40MIMO	Ant1	5310	37.856	5291.0017	5328.8577	47.67
11AX40MIMO	Ant2	5310	38.191	5290.9795	5329.1705	59.38
11AX40MIMO	Ant3	5310	38.249	5290.6955	5328.9445	56.28
11AX40MIMO	Ant1	5510	37.772	5491.1626	5528.9346	41.58
11AX40MIMO	Ant2	5510	37.831	5491.1052	5528.9362	48.76
11AX40MIMO	Ant3	5510	37.660	5490.9986	5528.6586	48.18
11AX40MIMO	Ant1	5590	37.591	5571.2257	5608.8167	39.82
11AX40MIMO	Ant2	5590	37.792	5571.0118	5608.8038	40.05
11AX40MIMO	Ant3	5590	37.526	5571.1298	5608.6558	39.89
11AX40MIMO	Ant1	5670	37.878	5651.0372	5688.9152	51.87
11AX40MIMO	Ant2	5670	37.726	5651.1737	5688.8997	52.31
11AX40MIMO	Ant3	5670	37.699	5651.3186	5689.0176	45.28
11AX40MIMO	Ant1	5710	37.614	5691.1652	5728.7792	39.89

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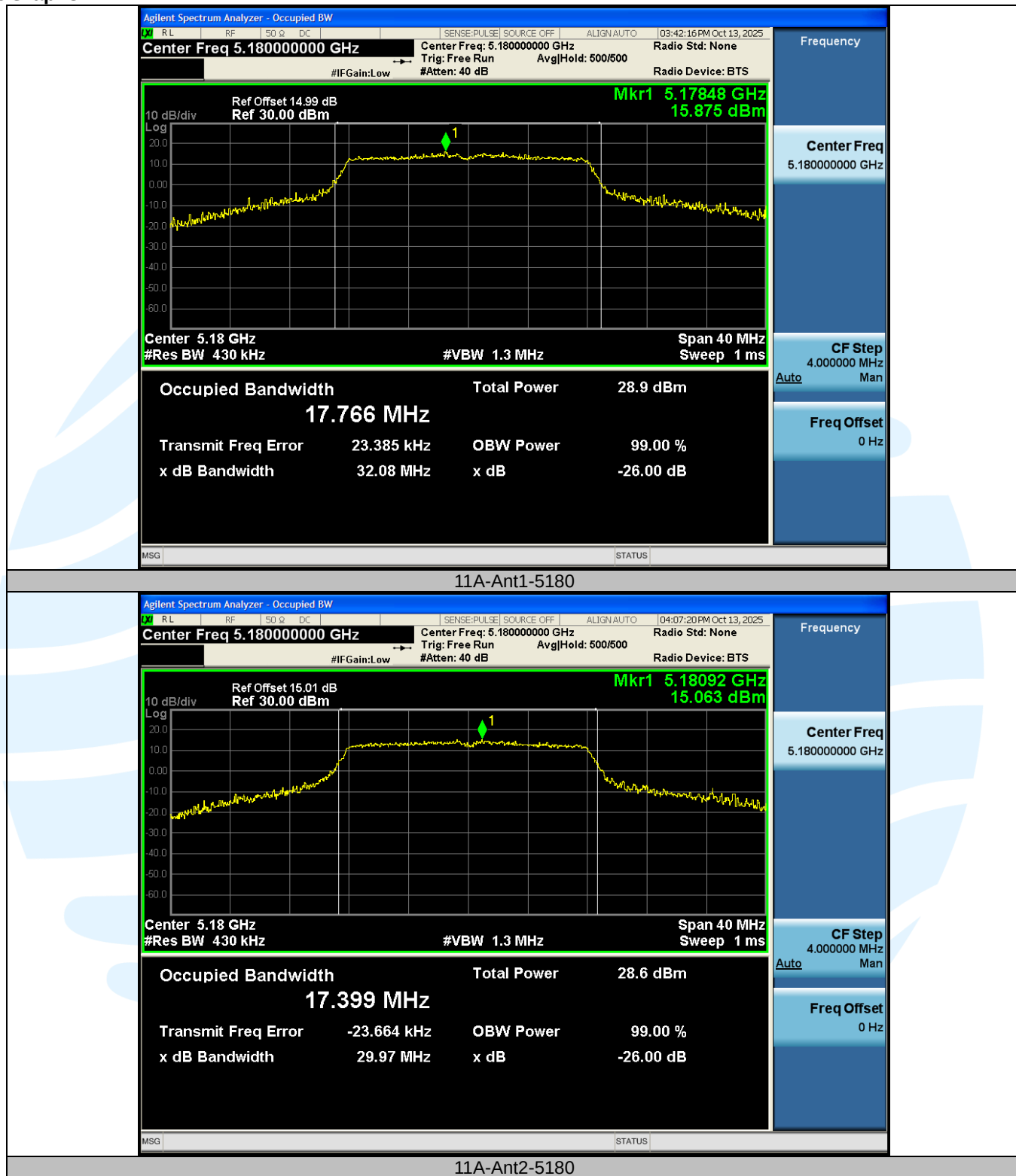
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11AX40MIMO	Ant2	5710	37.683	5691.1014	5728.7844	40.05
11AX40MIMO	Ant3	5710	37.526	5691.0946	5728.6206	40.07
11AX40MIMO	Ant1	5710 UNII-2C	33.835	5691.1652	5725	--
11AX40MIMO	Ant2	5710 UNII-2C	33.899	5691.1014	5725	--
11AX40MIMO	Ant3	5710 UNII-2C	33.905	5691.0946	5725	--
11AX40MIMO	Ant1	5710 UNII-3	3.779	5725	5728.7792	--
11AX40MIMO	Ant2	5710 UNII-3	3.784	5725	5728.7844	--
11AX40MIMO	Ant3	5710 UNII-3	3.621	5725	5728.6206	--
11AX40MIMO	Ant1	5755	37.854	5736.1594	5774.0134	54.88
11AX40MIMO	Ant2	5755	37.823	5736.3073	5774.1303	47.00
11AX40MIMO	Ant3	5755	38.254	5736.1375	5774.3915	57.39
11AX40MIMO	Ant1	5795	37.935	5776.0566	5813.9916	61.35
11AX40MIMO	Ant2	5795	38.072	5775.8923	5813.9643	69.01
11AX40MIMO	Ant3	5795	37.736	5776.1227	5813.8587	54.45
11AX80MIMO	Ant1	5210	77.372	5171.4488	5248.8208	101.0
11AX80MIMO	Ant2	5210	77.718	5171.3608	5249.0788	99.04
11AX80MIMO	Ant3	5210	78.237	5171.0229	5249.2599	124.2
11AX80MIMO	Ant1	5290	77.463	5251.0857	5328.5487	109.6
11AX80MIMO	Ant2	5290	78.029	5250.7845	5328.8135	114.5
11AX80MIMO	Ant3	5290	77.108	5250.9941	5328.1021	97.93
11AX80MIMO	Ant1	5530	77.282	5491.5056	5568.7876	86.39
11AX80MIMO	Ant2	5530	77.319	5491.5482	5568.8672	91.00
11AX80MIMO	Ant3	5530	78.122	5491.1064	5569.2284	111.7
11AX80MIMO	Ant1	5610	76.809	5571.7506	5648.5596	81.28
11AX80MIMO	Ant2	5610	77.371	5571.2653	5648.6363	81.43
11AX80MIMO	Ant3	5610	76.575	5571.3358	5647.9108	81.13
11AX80MIMO	Ant1	5690	77.096	5651.5695	5728.6655	81.08
11AX80MIMO	Ant2	5690	76.862	5651.4879	5728.3499	81.05
11AX80MIMO	Ant3	5690	75.767	5652.1921	5727.9591	80.82
11AX80MIMO	Ant1	5690 UNII-2C	73.431	5651.5695	5725	--
11AX80MIMO	Ant2	5690 UNII-2C	73.512	5651.4879	5725	--
11AX80MIMO	Ant3	5690 UNII-2C	72.808	5652.1921	5725	--
11AX80MIMO	Ant1	5690 UNII-3	3.666	5725	5728.6655	--
11AX80MIMO	Ant2	5690 UNII-3	3.35	5725	5728.3499	--
11AX80MIMO	Ant3	5690 UNII-3	2.959	5725	5727.9591	--
11AX80MIMO	Ant1	5775	77.332	5736.4812	5813.8132	83.61
11AX80MIMO	Ant2	5775	76.870	5736.6305	5813.5005	96.24
11AX80MIMO	Ant3	5775	76.664	5737.0243	5813.6883	80.90
11AX160MIMO	Ant1	5250	156.24	5171.8588	5328.0988	171.7
11AX160MIMO	Ant2	5250	156.90	5171.5170	5328.4170	170.4
11AX160MIMO	Ant3	5250	155.68	5171.3841	5327.0641	166.9
11AX160MIMO	Ant1	5250 UNII-1	78.142	5171.8580	5250	--
11AX160MIMO	Ant2	5250 UNII-1	78.18	5171.8199	5250	--
11AX160MIMO	Ant3	5250 UNII-1	78.391	5171.6091	5250	--
11AX160MIMO	Ant1	5250 UNII-2A	77.848	5250	5327.8480	--
11AX160MIMO	Ant2	5250 UNII-2A	78.37	5250	5328.3699	--
11AX160MIMO	Ant3	5250 UNII-2A	77.159	5250	5327.1591	--
11AX160MIMO	Ant1	5570	155.94	5492.2839	5648.2239	170.0
11AX160MIMO	Ant2	5570	155.99	5492.4353	5648.4253	166.9
11AX160MIMO	Ant3	5570	154.95	5491.9832	5646.9332	165.6

Test Graphs



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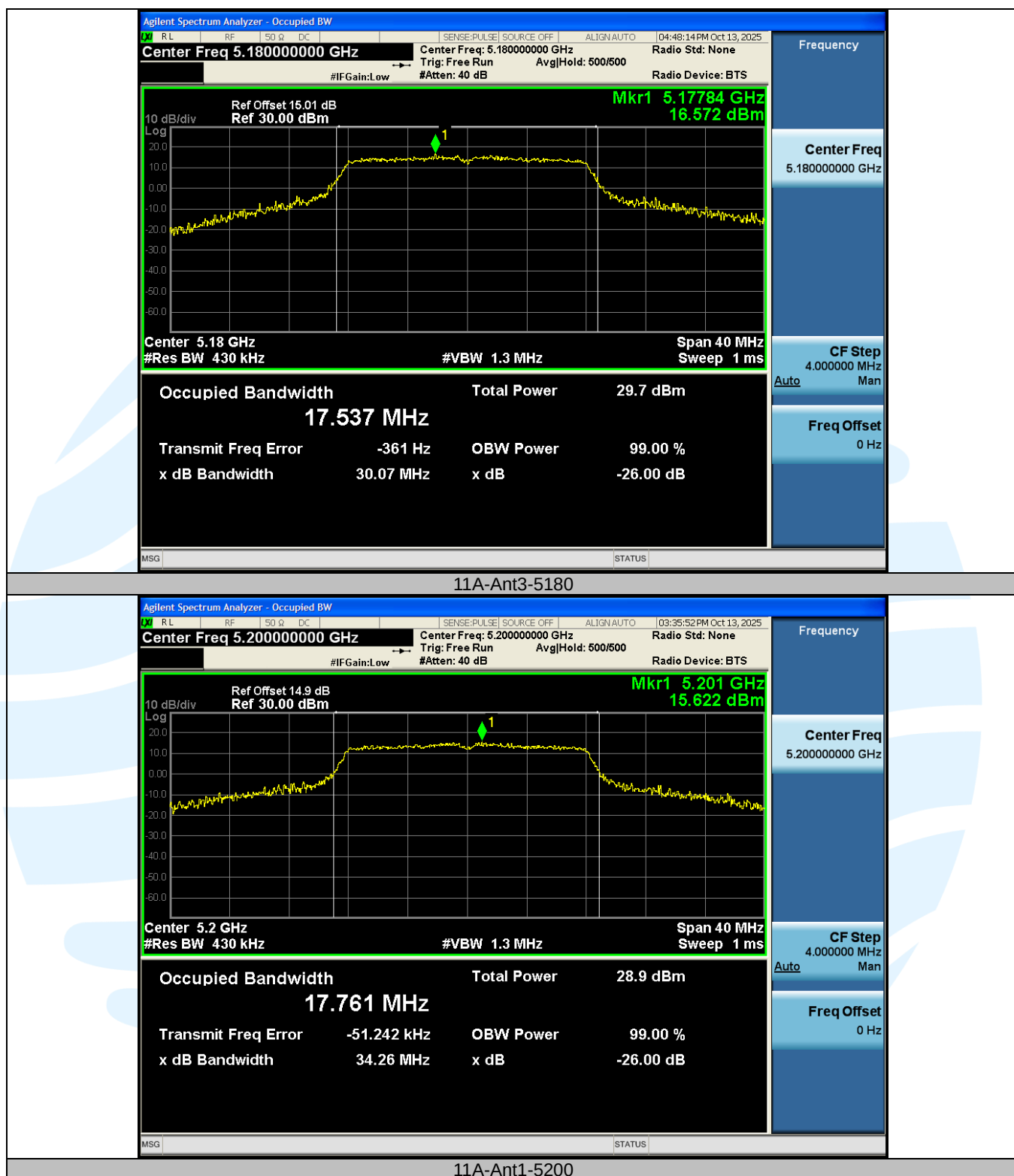
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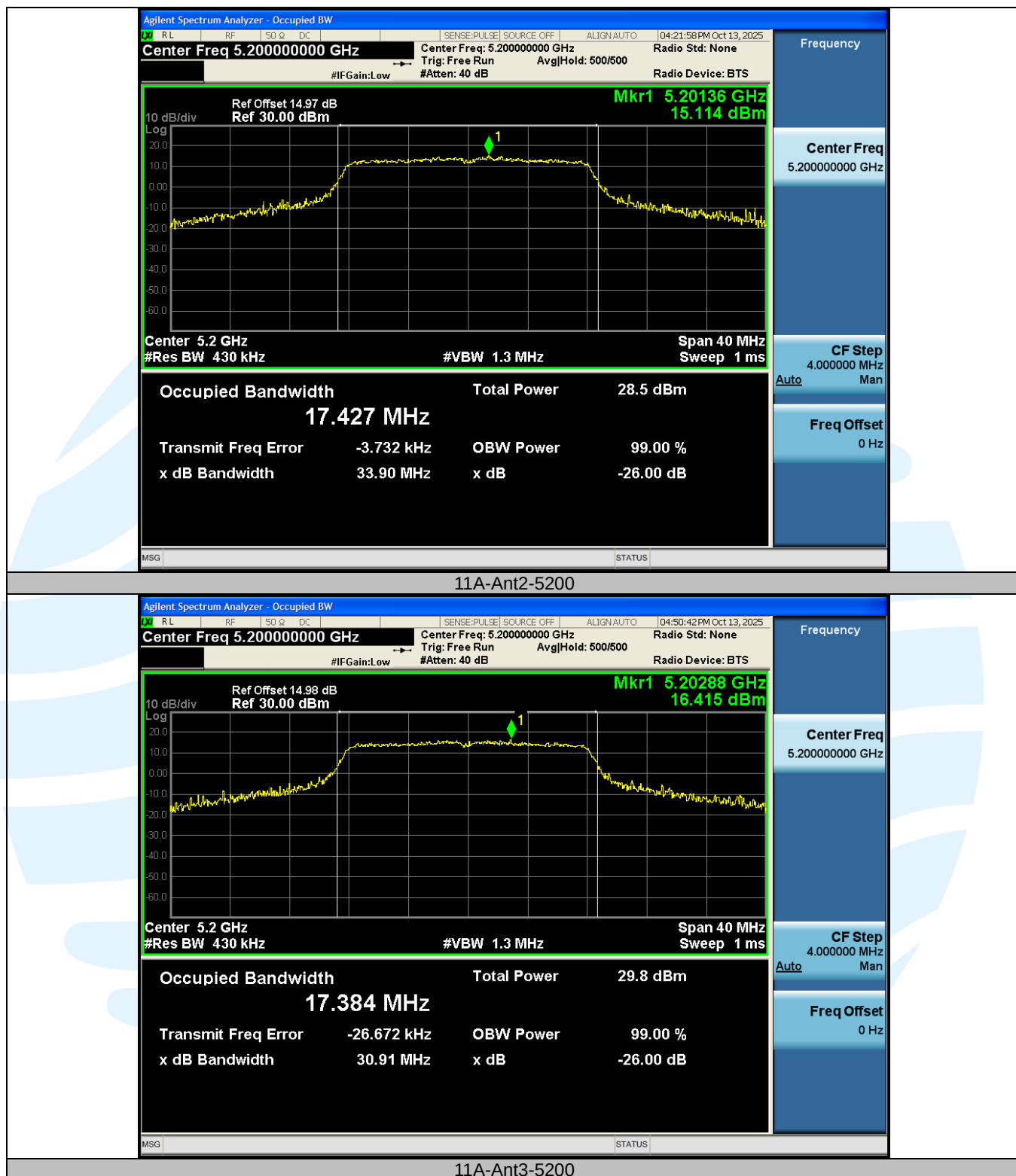
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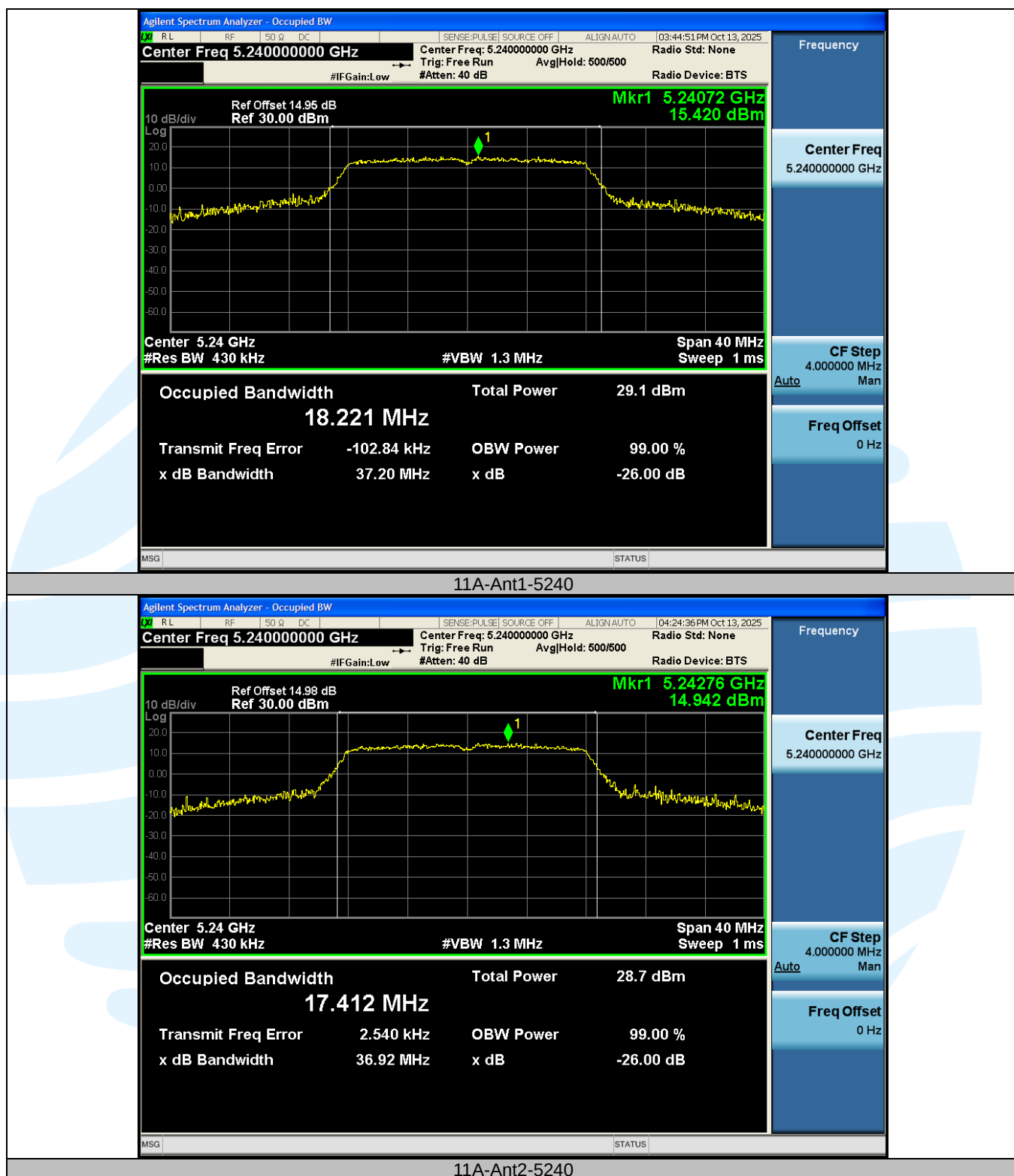
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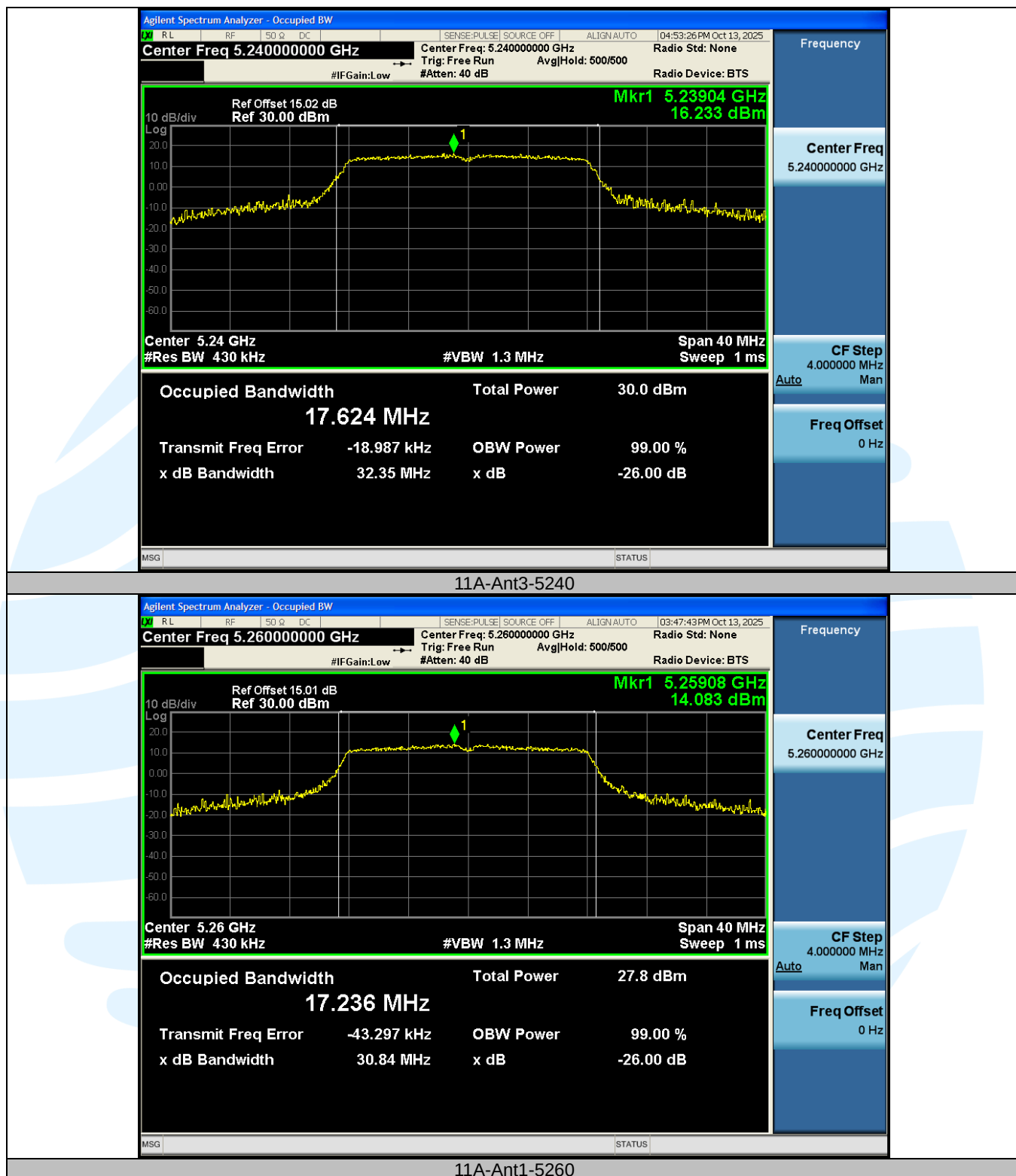
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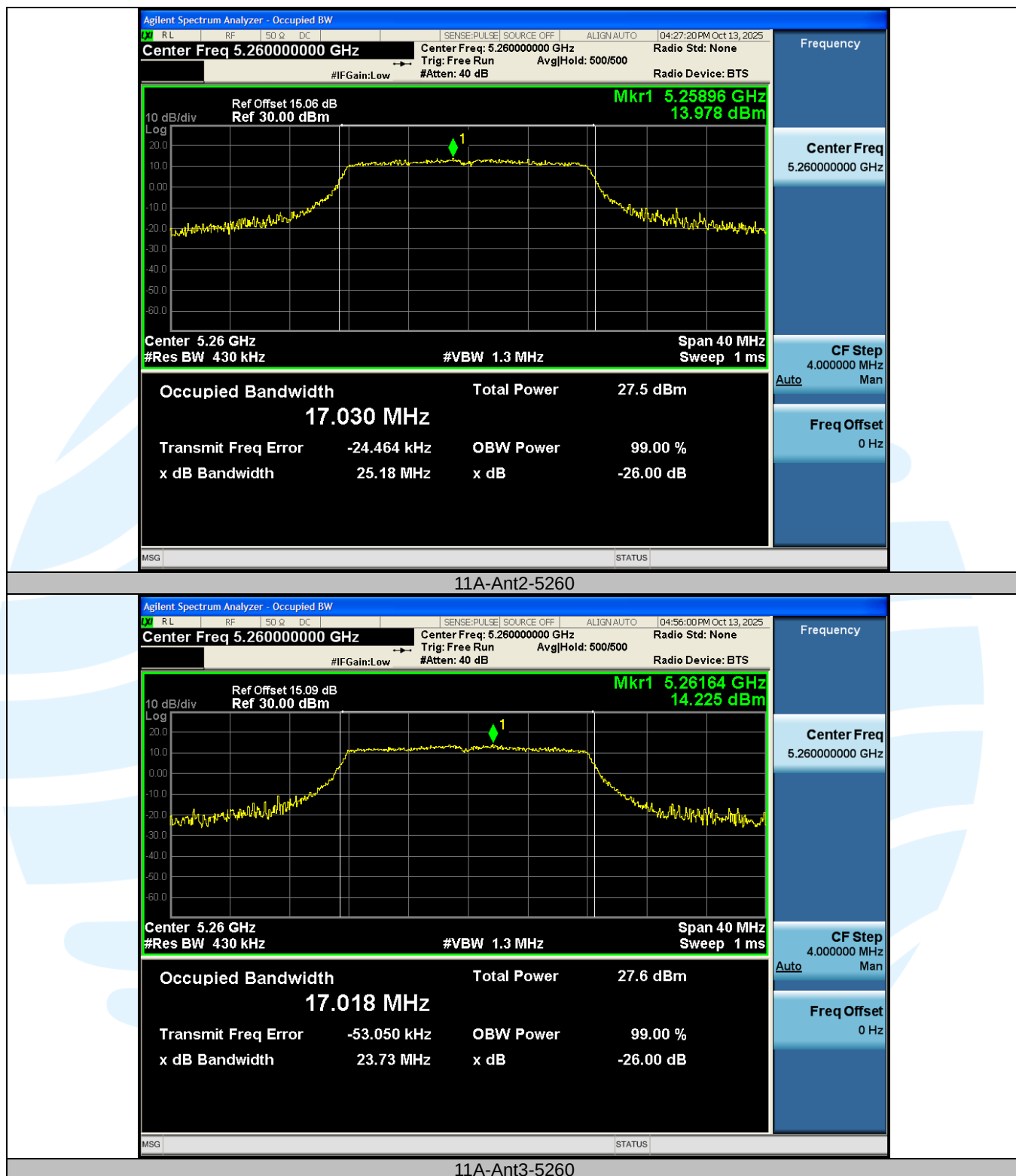
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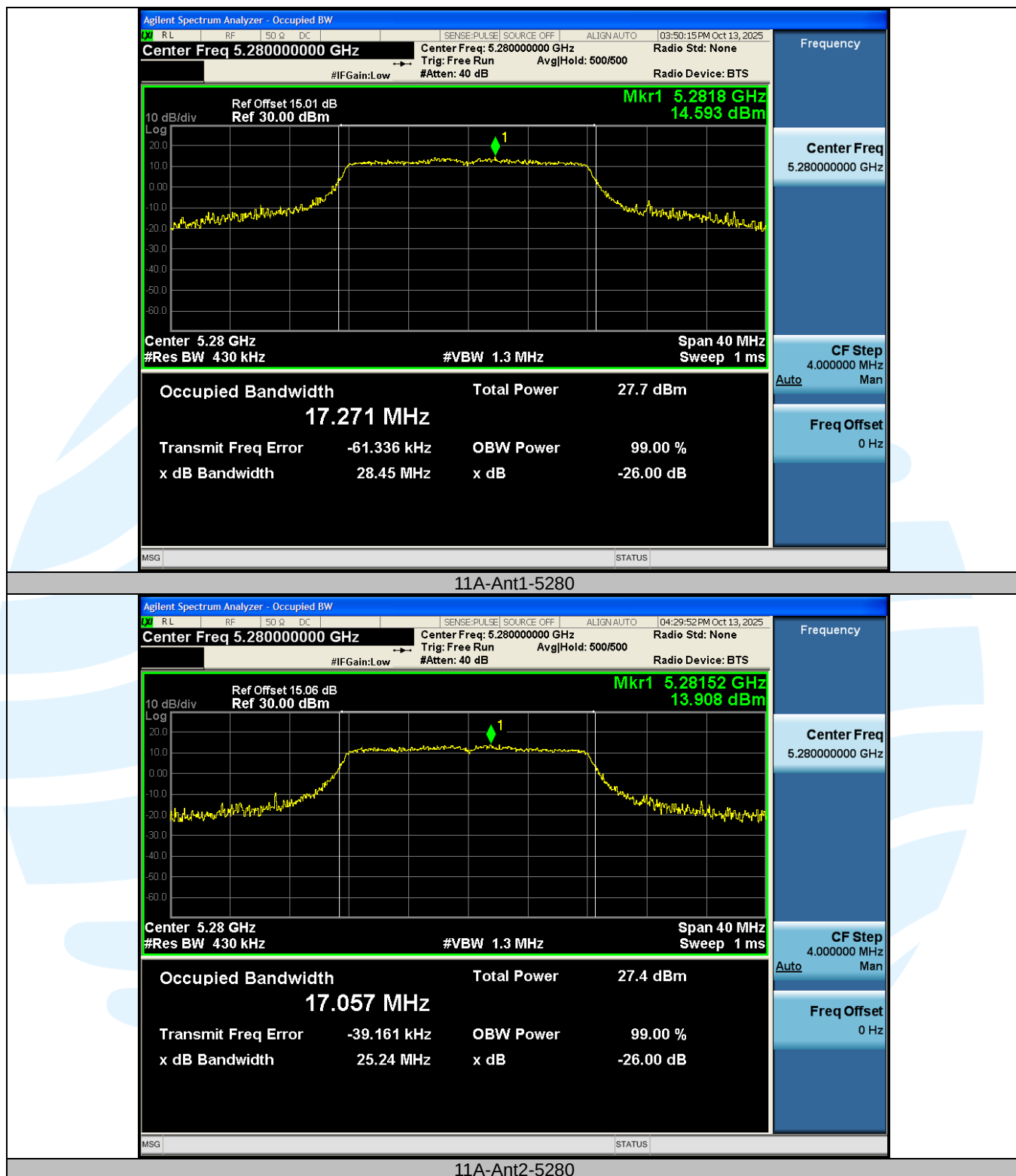
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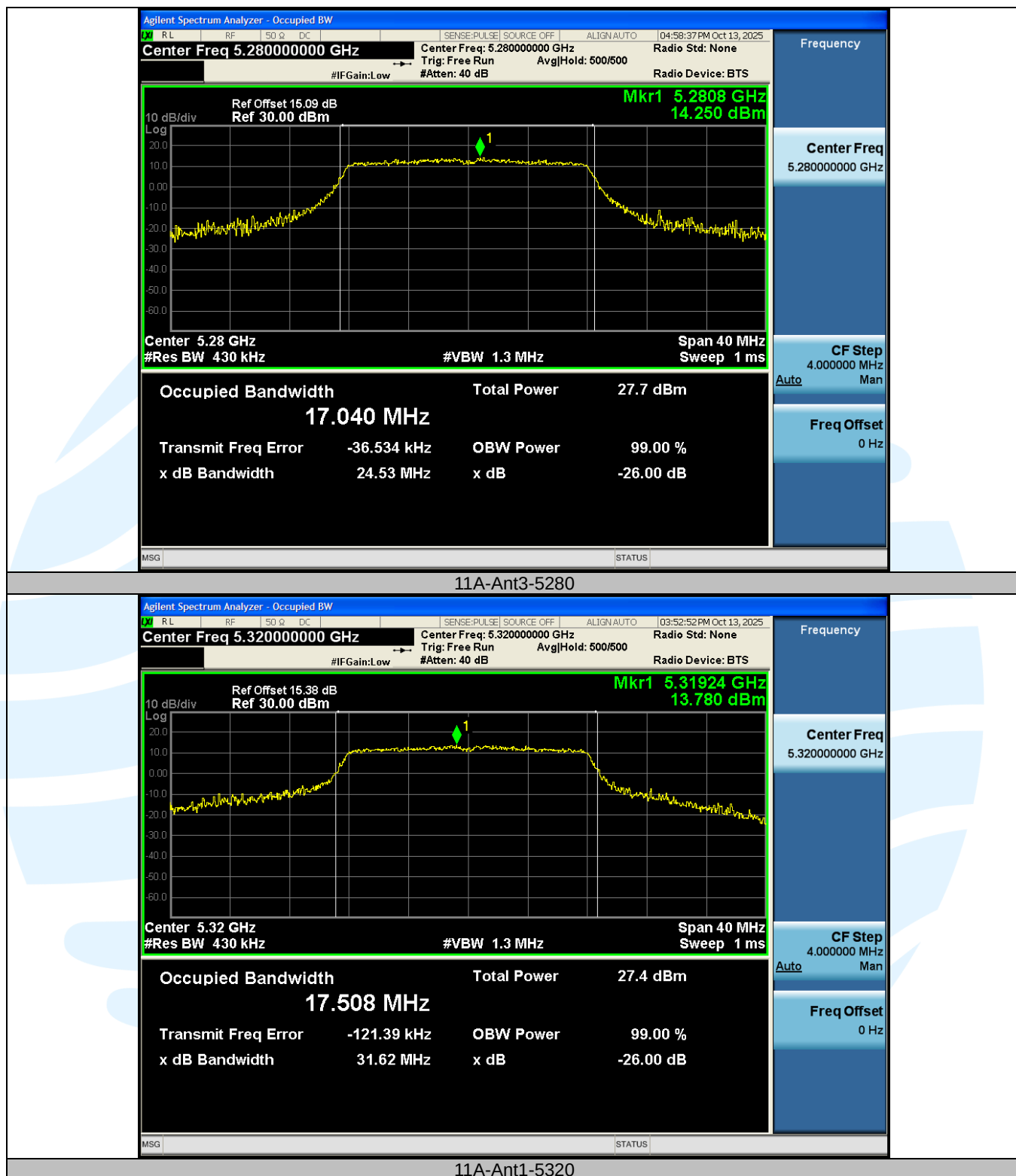
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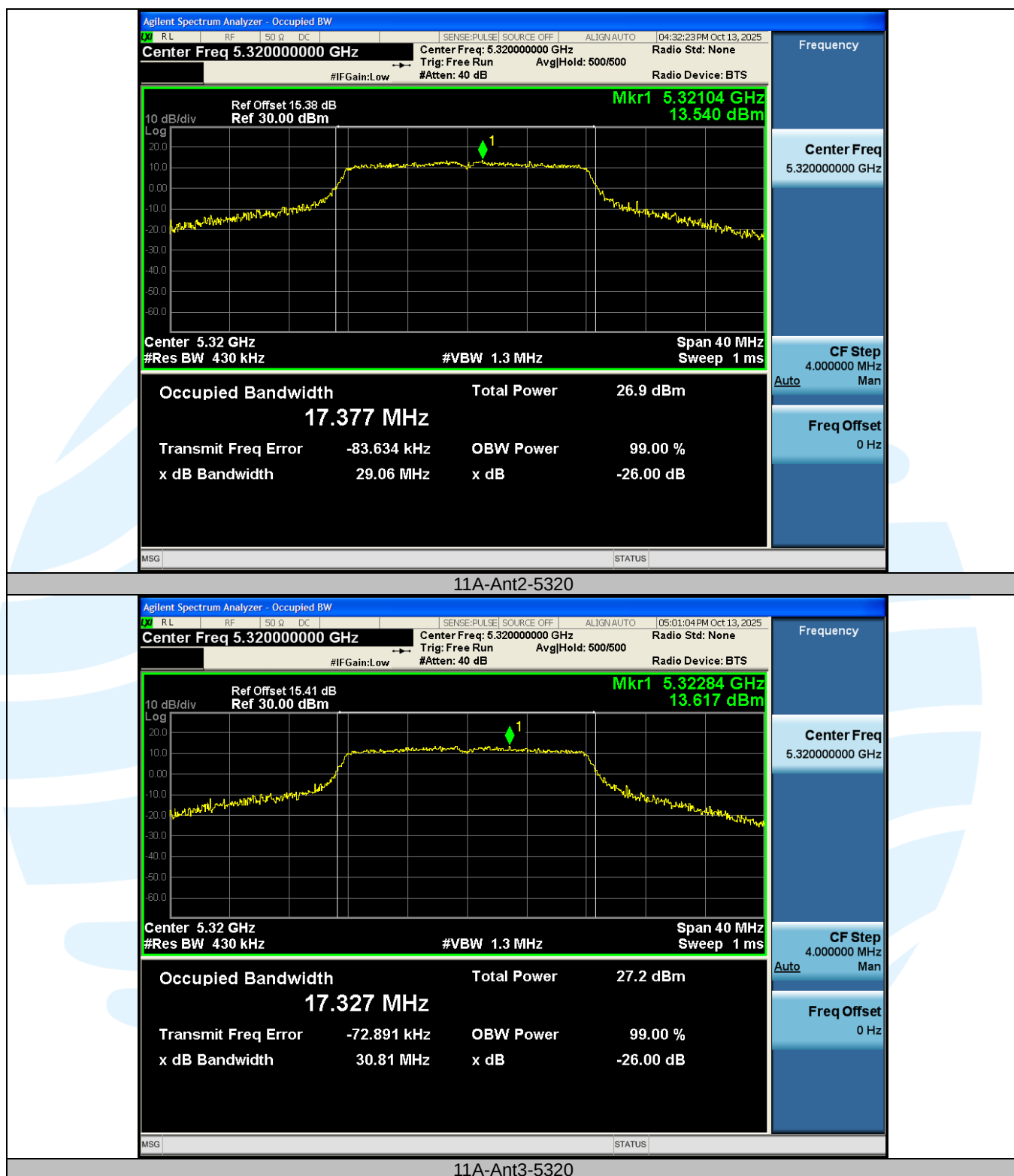
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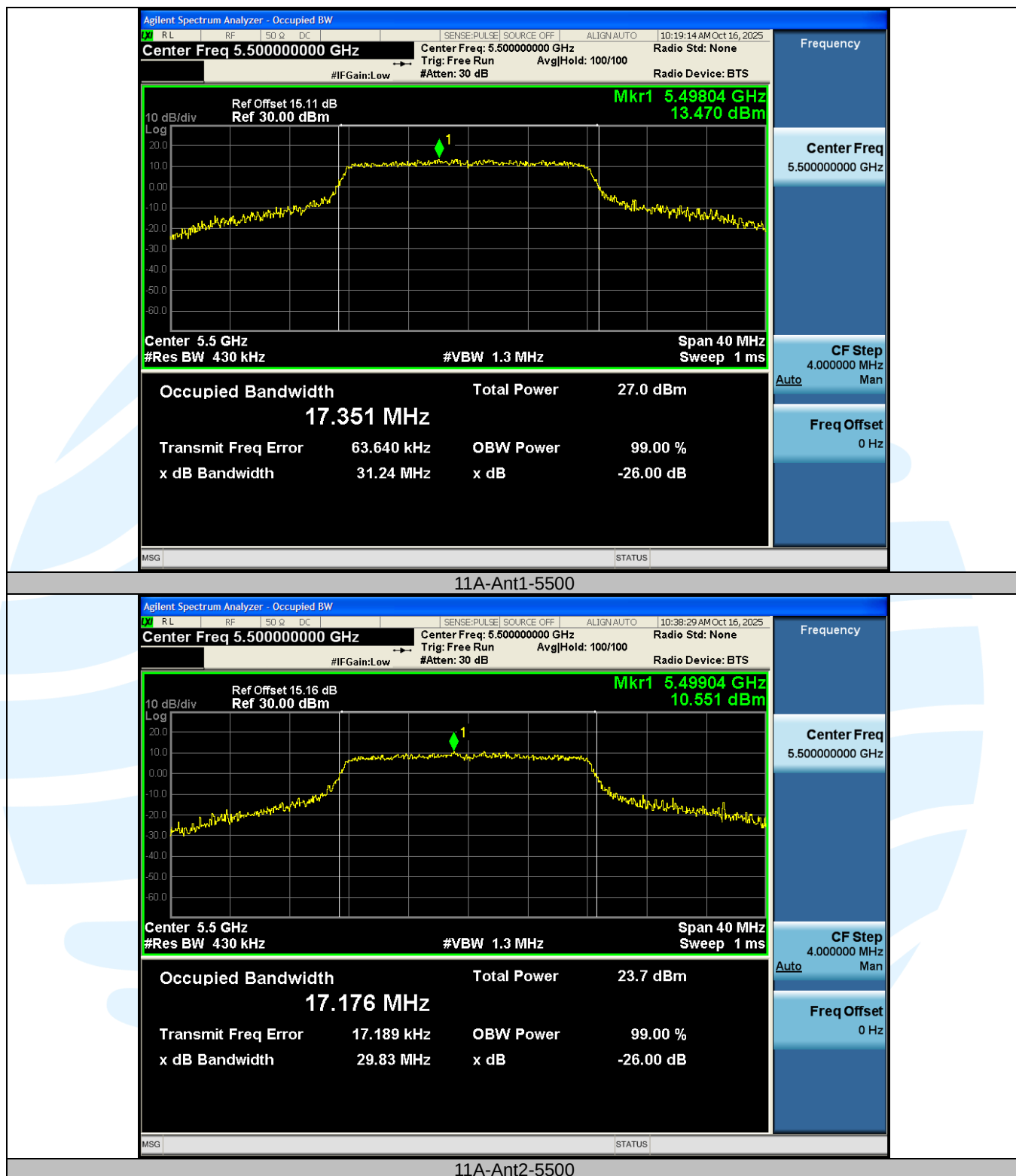
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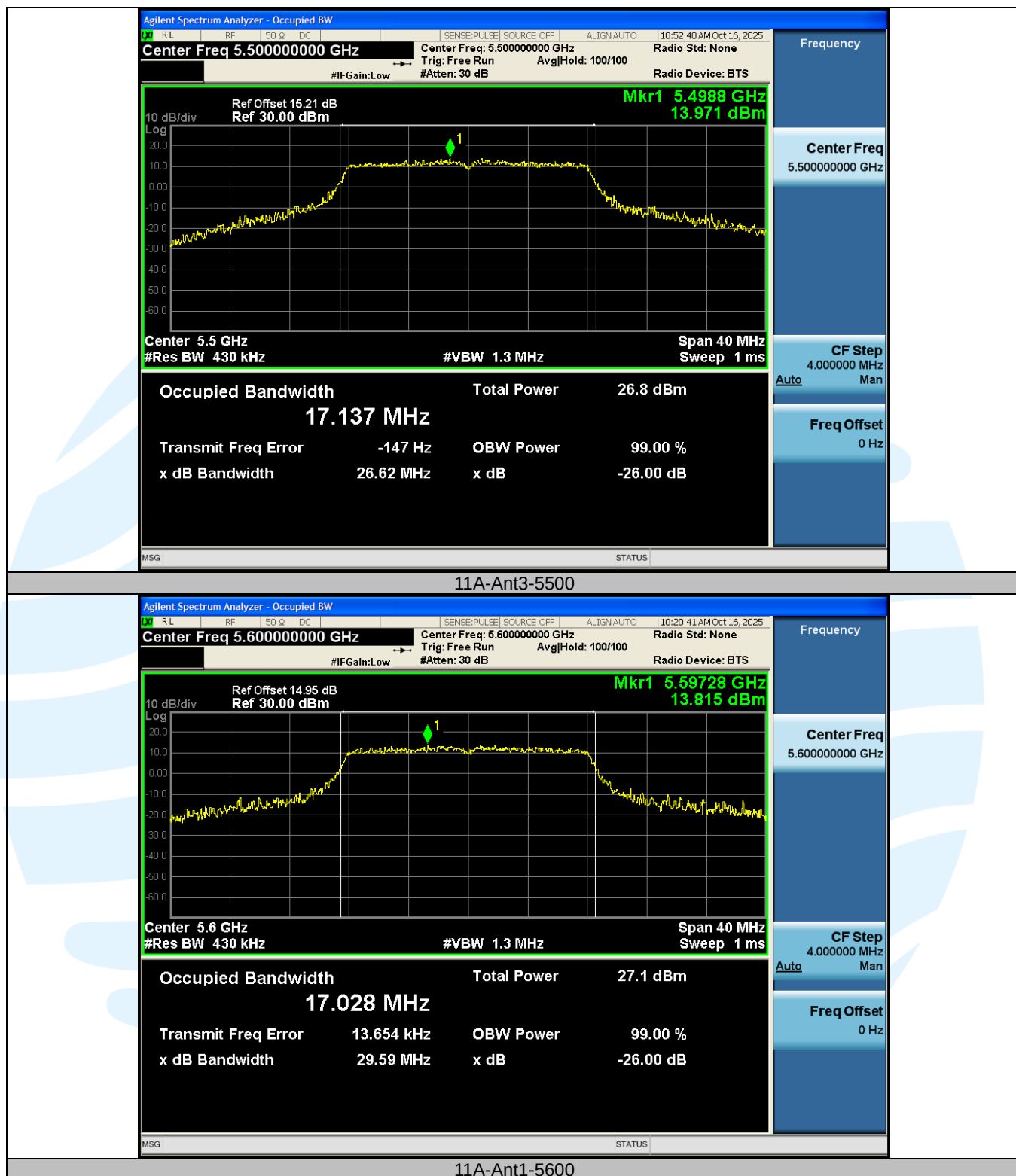
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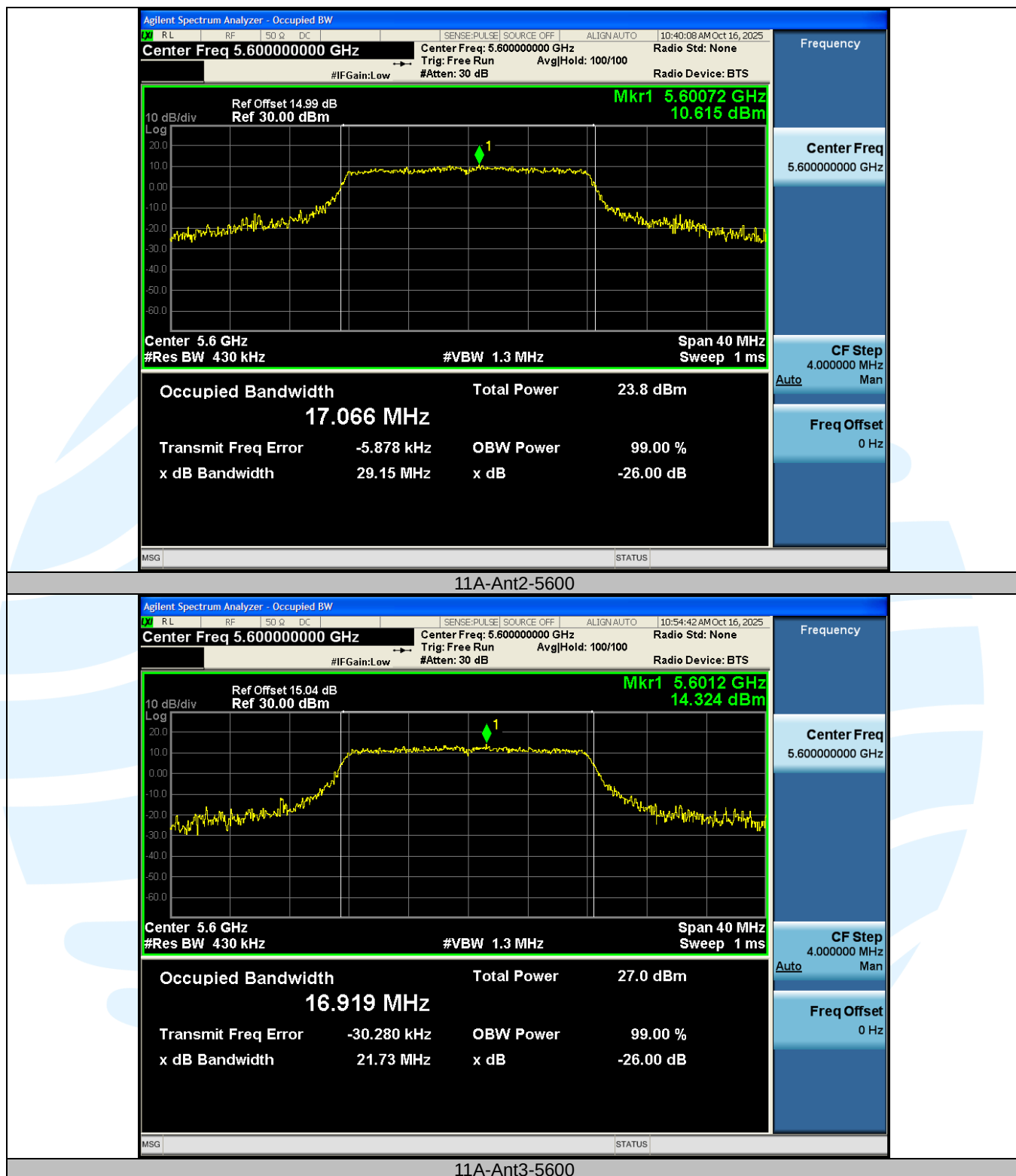
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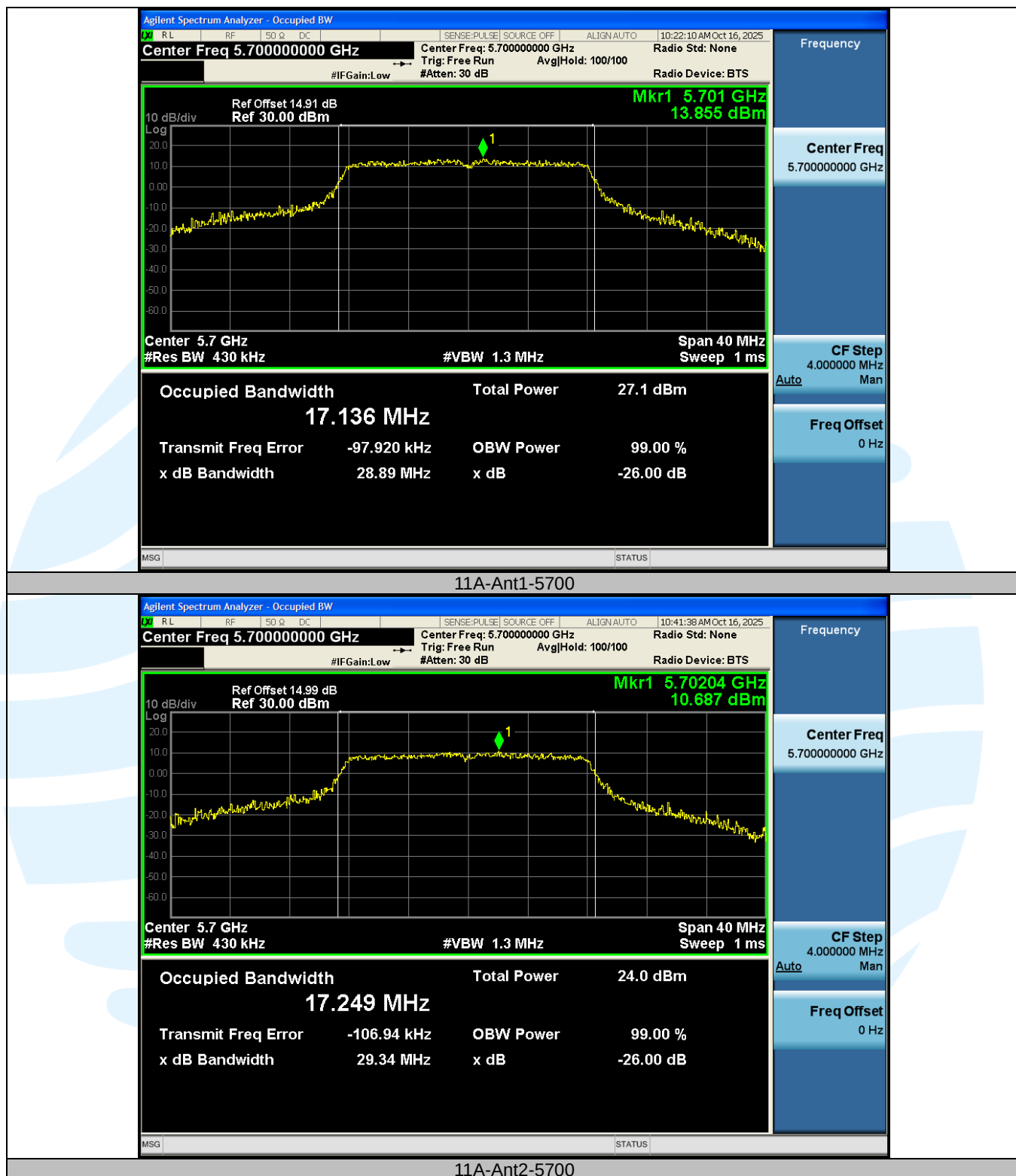
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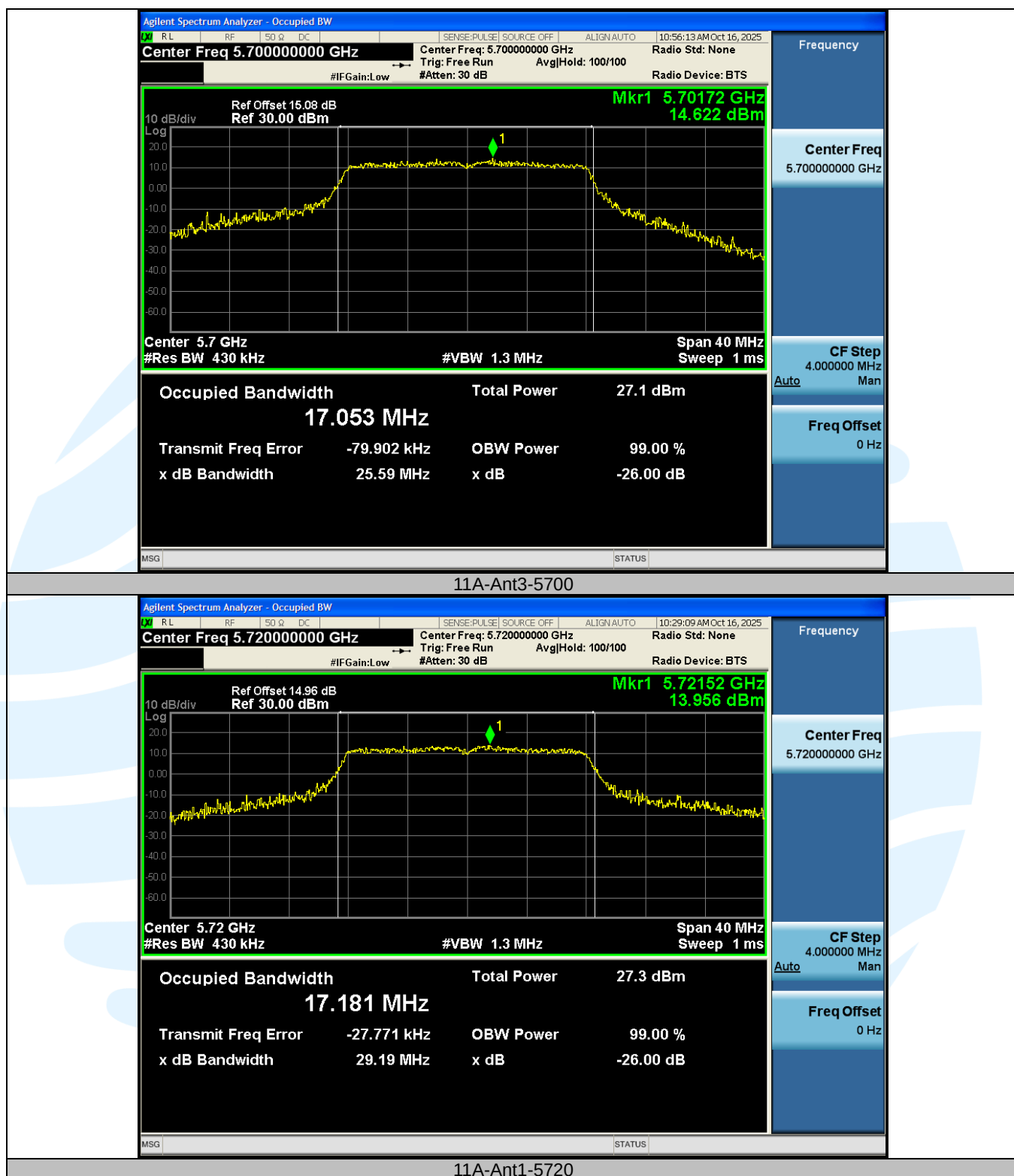
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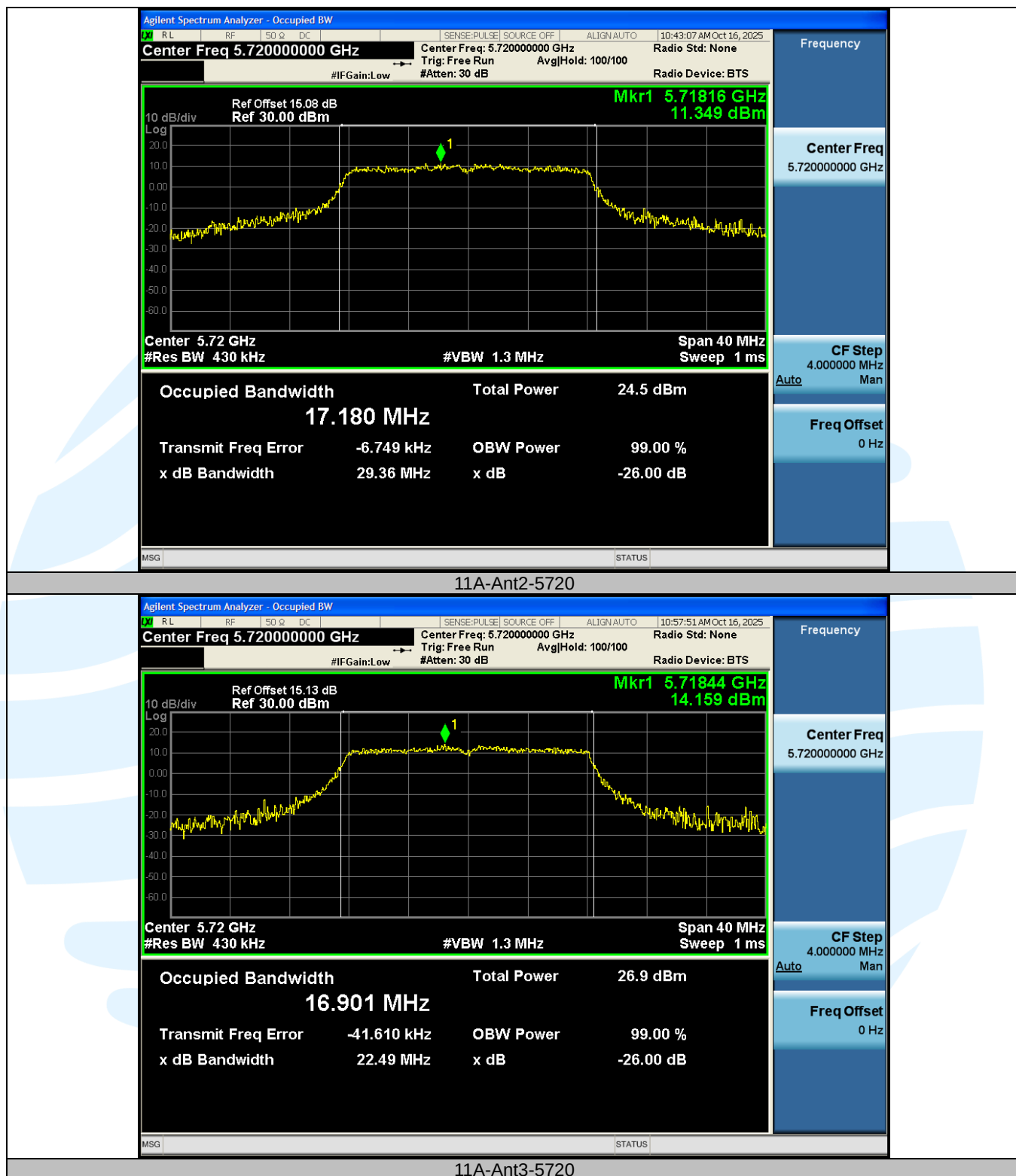
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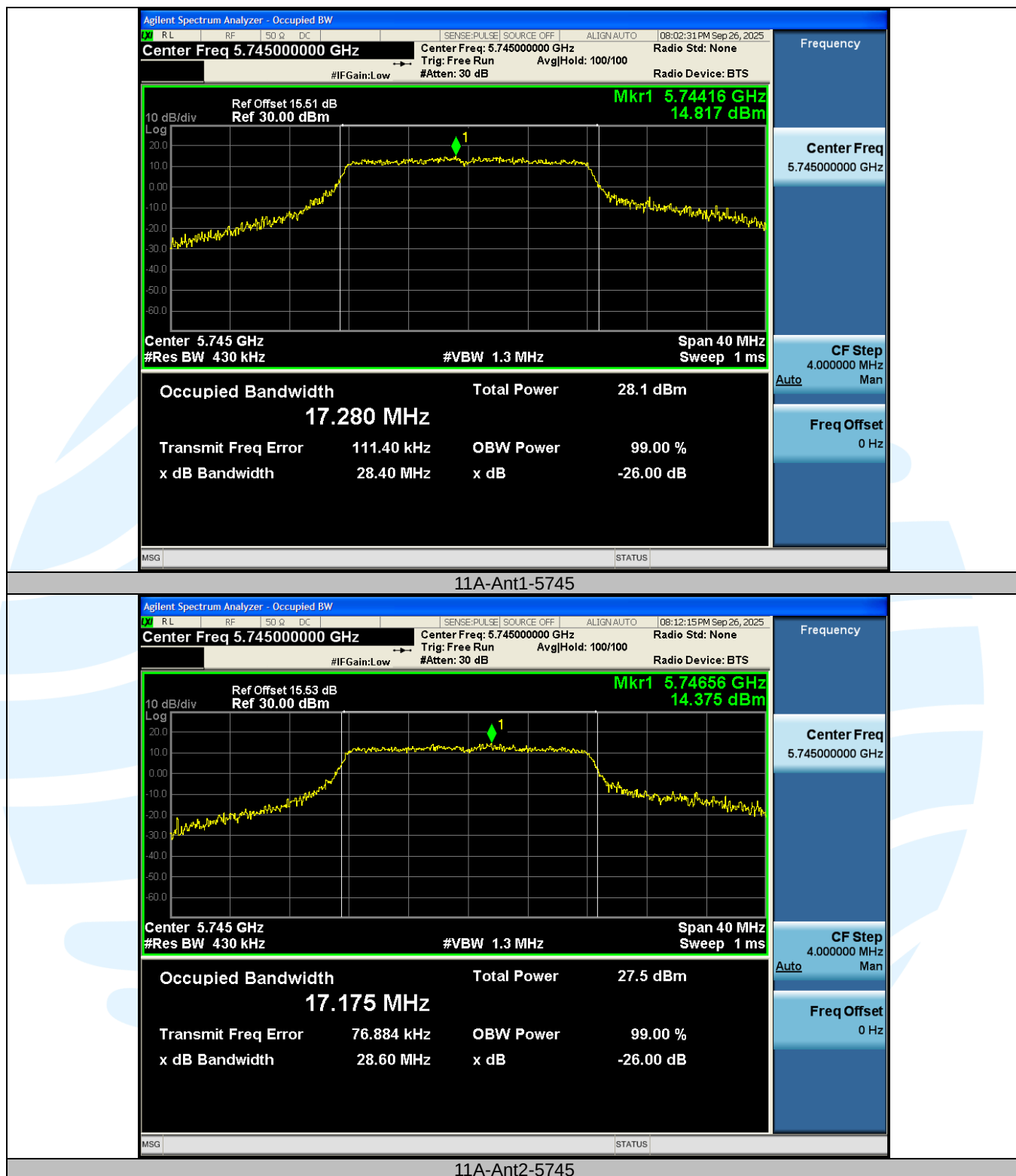
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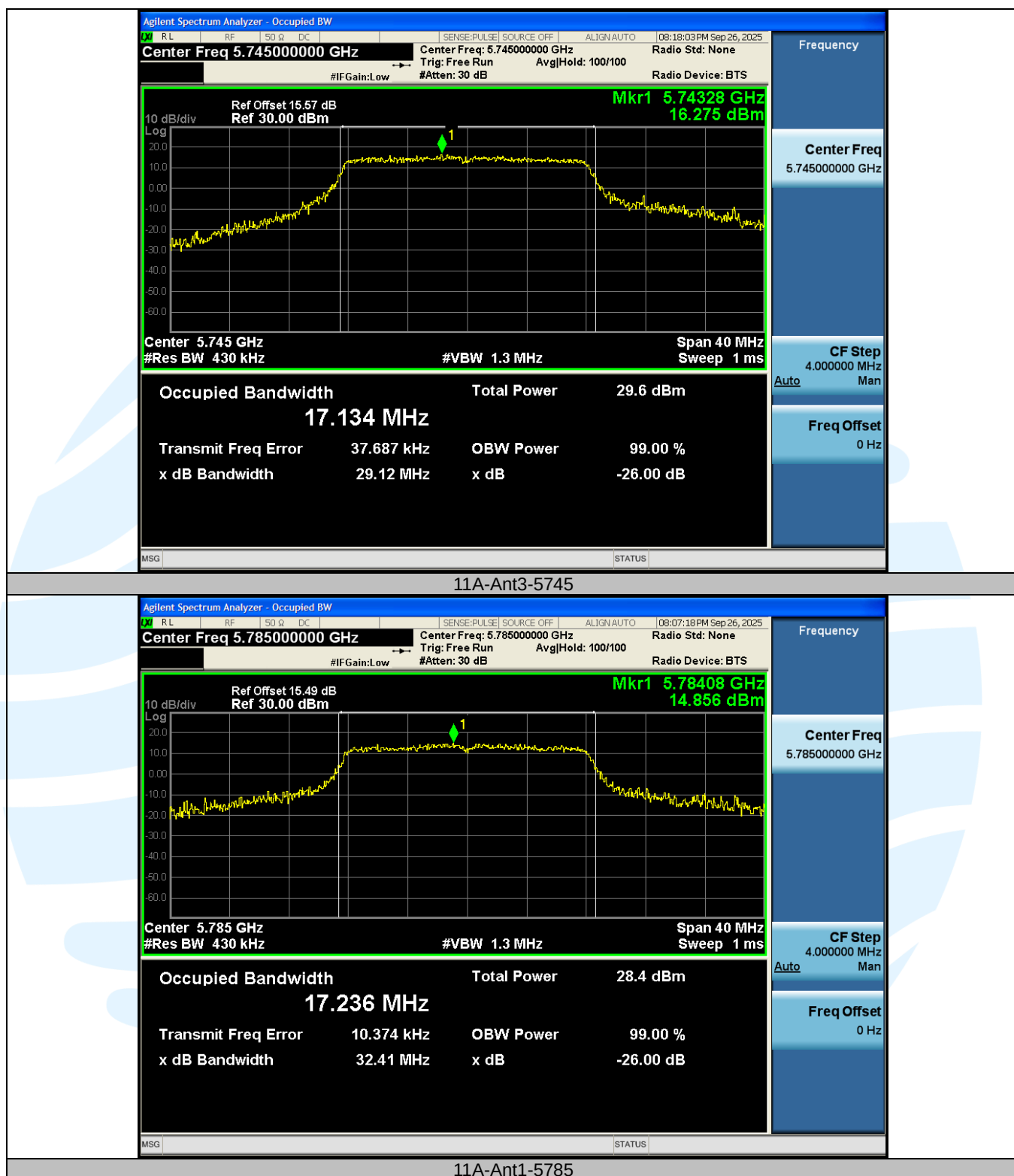
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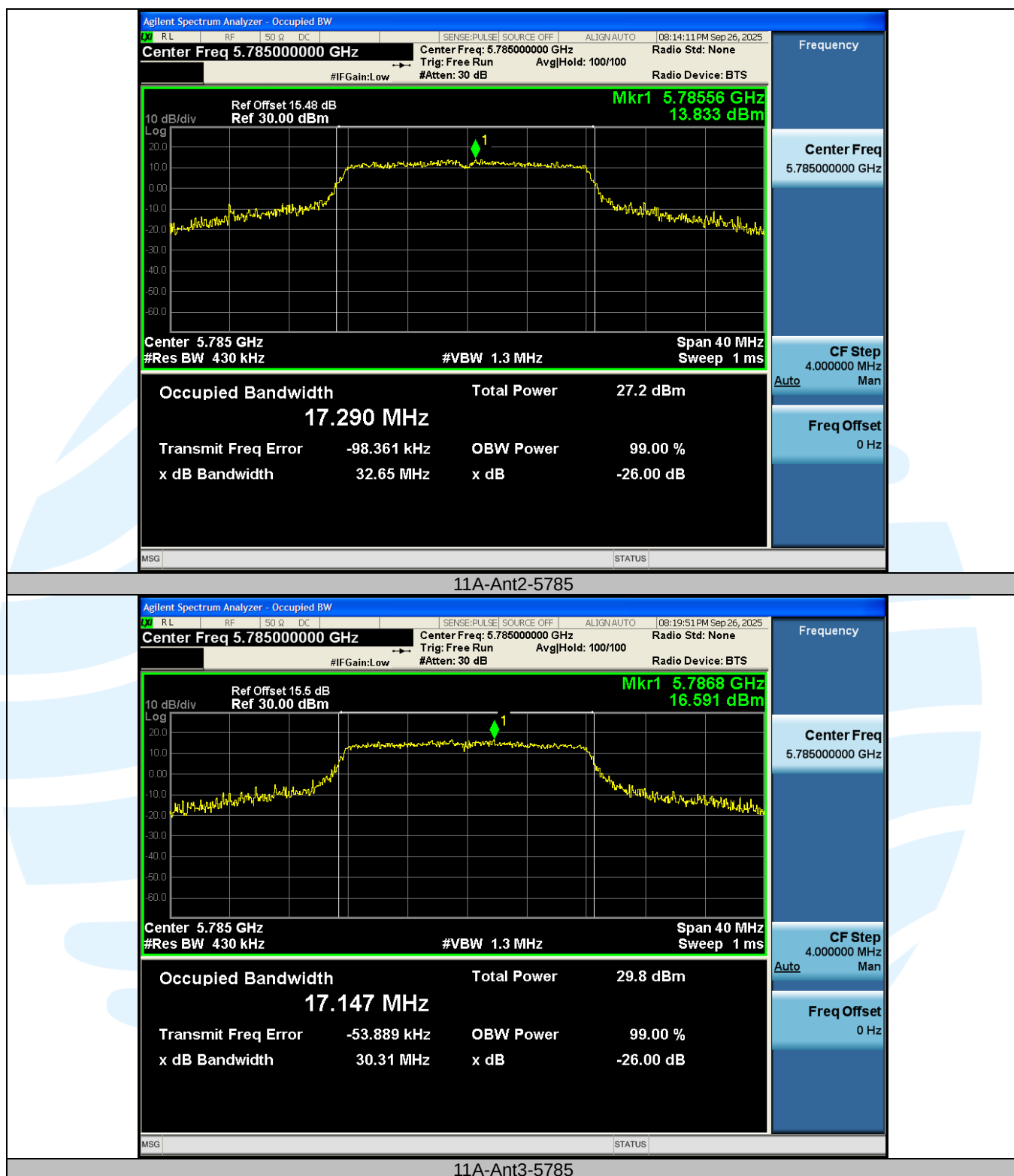
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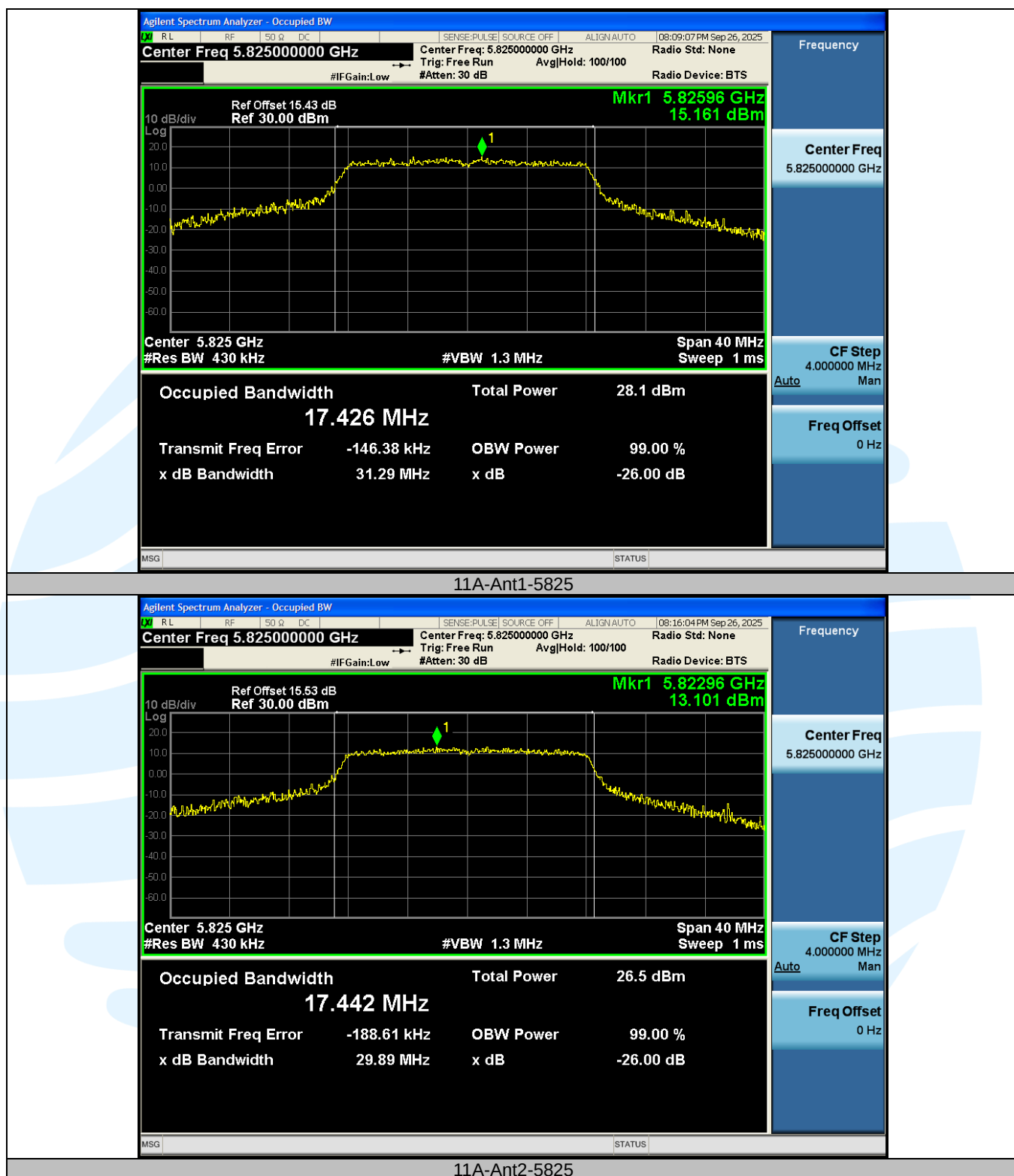
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