

TEST REPORT

Product Name : Tablet
Model Number : xTablet T1185
FCC ID : O86T1185

Prepared for : MobileDemand, L.C.
Address : 1501 Boyson Sq Dr, Ste 101 Hiawatha, Iowa, 52233, United States

Prepared by : EMTEK (SHENZHEN) CO., LTD.
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Report Number : ENS2207140201W00204R
Date(s) of Tests : July 28, 2022 to August 31, 2022
Date of issue : August 31, 2022

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Modified Information

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2207140201W00204R	/	Original Report

1 TEST RESULT CERTIFICATION

Applicant : MobileDemand, L.C.
Address : 1501 Boyson Sq Dr, Ste 101 Hiawatha, Iowa, 52233, United States
Manufacturer : MobileDemand, L.C.
Address : No.88 East Qianjin Road, Kunshan city, Jiangsu province, China
EUT : Tablet
Model Name : xTablet T1185
Trademark : MobileDemand

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.407.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : July 28, 2022 to August 31, 2022

Prepared by : 
Una Yu/Editor

Reviewer : 
Joe Xia/Supervisor

Approved & Authorized Signer : 
Lisa Wang/Manager

2 EUT TECHNICAL DESCRIPTION

Characteristics	Description
Product	Tablet
Model Number	xTablet T1185
Wifi Type	☒ UNII-1: 5150MHz-5250MHz Band ☒ UNII-2A: with 5250MHz-5350MHz Band ☒ UNII-2C: with 5470MHz-5725MHz Band ☒ UNII-3 with 5725MHz-5850MHz Band
WLAN Supported	☒ 802.11a ☒ 802.11n(20MHz channel bandwidth) ☒ 802.11n(40MHz channel bandwidth) ☒ 802.11ac(20MHz channel bandwidth) ☒ 802.11ac(40MHz channel bandwidth) ☒ 802.11ac(80MHz channel bandwidth) ☒ 802.11ac(160MHz channel bandwidth)
Data Rate	802.11a:54/48/36/24/18/12/9/6Mbps 802.11n:up to 600 Mbps 802.11ac:up to 1.733Gbps
Modulation	☒ OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n ☒ OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac
Frequency Range	☒ UNII-1: 5150MHz-5250MHz Band ☒ 5180-5240MHz for 802.11a ☒ 5180-5240MHz for 802.11n(HT20) ☒ 5180-5240MHz for 802.11ac(HT20) ☒ 5190-5230MHz for 802.11n(HT40) ☒ 5190-5230MHz for 802.11ac(HT40) ☒ 5210MHz for 802.11ac(HT80) ☒ 5250MHz for 802.11ac(HT160) ☒ UNII-2A: with 5250MHz-5350MHz Band ☒ 5260-5320MHz for 802.11a ☒ 5260-5320MHz for 802.11n(HT20) ☒ 5260-5320MHz for 802.11ac(HT20) ☒ 5270-5310MHz for 802.11n(HT40) ☒ 5270-5310MHz for 802.11ac(HT40) ☒ 5290MHz for 802.11ac(HT80) ☒ 5250MHz for 802.11ac(HT160) ☒ UNII-2C: with 5470MHz-5725MHz Band ☒ 5500-5700MHz for 802.11a ☒ 5500-5700MHz for 802.11n(HT20) ☒ 5500-5700MHz for 802.11ac(HT20) ☒ 5510-5670MHz for 802.11n(HT40) ☒ 5510-5670MHz for 802.11ac(HT40) ☒ 5530-5610MHz for 802.11ac(HT80) ☒ 5570MHz for 802.11ac(HT160) ☒ UNII-3 with 5725MHz-5850MHz Band

	☒ 5745-5825MHz for 802.11a ☒ 5745-5825MHz for 802.11n(HT20) ☒ 5745-5825MHz for 802.11ac(HT20) ☒ 5755-5795MHz for 802.11n(HT40) ☒ 5755-5795MHz for 802.11ac(HT40) ☒ 5775MHz for 802.11ac(HT80)	
TPC Function	☐ Applicable	☒ Not Applicable
Antenna Type	PIFA Antenna	
Antenna Gain	5150-5250MHz: Ant 1: 0.76dBi Ant 2: 2.85dBi 5250-5350MHz: Ant 1: 0.76dBi Ant 2: 2.85dBi 5470-5725MHz: Ant 1: 2.24dBi Ant 2: 3.21dBi 5725-5850MHz: Ant 1: 1.19dBi Ant 2: 3.13dBi	
Power Supply	Rechargeable Li-ion Cylindrical Battery 7.2V, 9447mAh, 68Wh Adapter : Model: A18-065N3A Input: 100-240V~1.7A, 50-60Hz Output: 19V, 3.42A, 65W	
Temperature Range	-10°C ~ +50°C	

Note: for more details, please refer to the user's manual of the EUT.

3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.407 (a) 15.407 (e)	99% , 6dB and 26dB Bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407 (a)	Peak Power Spectral Density	PASS	
15.407 (b)	Radiated Spurious Emission	PASS	
15.407 (b)(6) 15.207	Power Line Conducted Emission	PASS	
15.407(a) 15.203	Antenna Application	PASS	
NOTE1: N/A (Not Applicable). NOTE2: According to FCC OET KDB 789033 D2 General UNII Test Procedures New Rules v02r01, In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.			

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: O86T1185 filing to comply with Section 15.247 of the FCC Part 15, Subpart E Rules.

4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

FCC KDB 789033 D2 General UNII Test Procedures New Rules v02r01

4.2 MEASUREMENT EQUIPMENT USED

For Conducted Emission Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESCI	101384	2022/5/14	1Year
AMN	Rohde & Schwarz	ENV216	101161	2022/5/14	1Year

For Spurious Emissions Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESU 26	100154	2022/5/14	1Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	100967	2022/5/14	1Year
Pre-Amplifier	Lunar EM	LNA30M3G-25	J10100000070	2022/5/14	1Year
Pre-Amplifier	HP	8447F	2944A07999	2022/5/14	1Year
Pre-Amplifier	SKET	LNPA_0118G-45	SK2019051801	2022/5/14	1Year
Pre-Amplifier	Lunar EM	LNA1G18-48	J1011131010001	2022/5/14	1Year
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2021/6/12	2 Year
Bilog Antenna	Schwarzbeck	VULB9163	659	2021/8/22	2 Year
Bilog Antenna	Schwarzbeck	VULB9163	712	2021/7/5	2 Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1177	2021/6/12	2 Year
Horn antenna	Schwarzbeck	BBHA9170	9170-399	2021/6/12	2 Year
Wideband Radio Communication Tester	R&S	CMW500	140822	2022/5/15	1Year
Thermometer	Hegao	HTC-1	\	2022/5/17	1Year

For Other Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Signal Analyzer	Agilent	N9010A	MY53470879	2022/5/14	1Year
Vector Signal Generator	Agilent	N5182B	MY53050878	2022/5/14	1Year
Analog Signal Generator	Agilent	N5171B	MY53050553	2022/5/14	1Year
Power Meter	Agilent	PS-X10-100	\	2022/5/15	1Year
Blocking Box	THEDA	AD211	TW5451140	2022/5/14	1Year
Switchgroup	THEDA	ETF-025(VASC6)	TW5451008	N/A	N/A
MIMO Matrix Switch	THEDA	4P5TM18	TW5451009	N/A	N/A
Thermometer	Hegao	HTC-1	\	2022/5/17	1Year

4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

☒ Wifi 5G with U-NII - 1

Frequency and Channel list for 802.11a/n (HT20)/802.11ac (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220		
40	5200	48	5240		

Frequency and Channel list for 802.11n (HT40)/ 802.11ac (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190				
46	5230				

Frequency and Channel list for 802.11ac (HT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210				

Frequency and Channel list for 802.11ac (HT160):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
50	5250				

Test Frequency and Channel for 802.11a/n (HT20)/802.11ac (HT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	48	5240

Test Frequency and channel for 802.11n (HT40)/ 802.11ac (HT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	N/A	N/A	46	5230

Test Frequency and channel for 802.11ac (HT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210				

Test Frequency and channel for 802.11ac (HT160):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
50	5250				

☒ Wifi 5G with U-NII -2C

Frequency and Channel list for 802.11a/n (HT20)/802.11ac (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	132	5660
104	5520	120	5600	136	5680
108	5540	124	5620	140	5700
112	5560	128	5640		

Frequency and Channel list for 802.11n (HT40)/ 802.11ac (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	118	5590	134	5670
110	5550	126	5630		

Frequency and Channel list for 802.11ac (HT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	122	5610		

Frequency and Channel list for 802.11ac (HT160):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
114	5570				

Test Frequency and Channel for 802.11a/n (HT20)/802.11ac (HT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	140	5700

Test Frequency and channel for 802.11n (HT40)/ 802.11ac (HT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510			134	5670

Test Frequency and channel for 802.11ac (HT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530				

Test Frequency and channel for 802.11ac (HT160):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
114	5570				

☒ Wifi 5G with U-NII -2A

Frequency and Channel list for 802.11a/n (HT20)/802.11ac (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300		
56	5280	64	5320		

Frequency and Channel list for 802.11n (HT40)/ 802.11ac (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270				
62	5310				

Frequency and Channel list for 802.11ac (HT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				

Frequency and Channel list for 802.11ac (HT160):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
50	5290				

Test Frequency and Channel for 802.11a/n (HT20)/802.11ac (HT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	56	5280	64	5320

Test Frequency and channel for 802.11n (HT40)/ 802.11ac (HT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	N/A	N/A	62	5310

Test Frequency and channel for 802.11ac (HT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
------------------	--	------------------	--	-------------------	--

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				

Test Frequency and channel for 802.11ac (HT160):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
50	5290				

☒ Wifi 5G with U-NII -3

Frequency and Channel list for 802.11a/n (HT20)/802.11ac (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825
153	5765	161	5805		

Frequency and Channel list for 802.11n (HT40)/ 802.11ac (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755				
159	5795				

Frequency and Channel list for 802.11ac (HT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775				

Test Frequency and Channel for 802.11a/n (HT20)/802.11ac (HT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825

Test Frequency and channel for 802.11n (HT40)/ 802.11ac (HT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755			159	5795

Test Frequency and channel for 802.11ac (HT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775				

Multi-antenna correlation:

☒	Transmit Signals are Correlated
	Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi
☐	All Transmit Signals are Completely Uncorrelated
	Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})^2 / N_{ANT}]$ dBi

5150-5250MHz: Ant 1: 0.76dBi Ant 2: 2.85dBi

ANT1+ANT2: Directional gain = $10 \log [(10^{0.76/20} + 10^{2.85/20})^2/2]$ dBi=4.88dBi

5250-5350MHz: Ant 1: 0.76dBi Ant 2: 2.85dBi

ANT1+ANT2: Directional gain = $10 \log [(10^{0.76/20} + 10^{2.85/20})^2/2]$ dBi=4.88dBi

5470-5725MHz: Ant 1: 2.24dBi Ant 2: 3.21dBi

ANT1+ANT2: Directional gain = $10 \log [(10^{2.24/20} + 10^{3.21/20})^2/2]$ dBi=5.75dBi

5725-5850MHz: Ant 1: 1.19dBi Ant 2: 3.13dBi

ANT1+ANT2: Directional gain = $10 \log [(10^{1.19/20} + 10^{3.13/20})^2/2]$ dBi=5.22dBi

5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at:

Bldg 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab.

: **Accredited by CNAS**

The Certificate Registration Number is L2291

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)

Accredited by FCC

Designation Number: CN1204

Test Firm Registration Number: 882943

Accredited by A2LA

The Certificate Number is 4321.01

Accredited by Industry Canada

The Conformity Assessment Body Identifier is CN0008

Name of Firm

: EMTEK (SHENZHEN) CO., LTD.

Site Location

: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

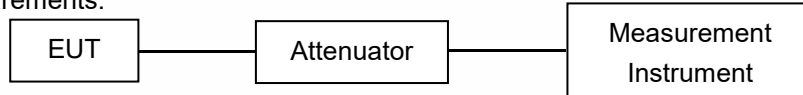
Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Power Density	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Band Edge Test	$\pm 3\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 3\%$

Measurement Uncertainty for a level of Confidence of 95%.

7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

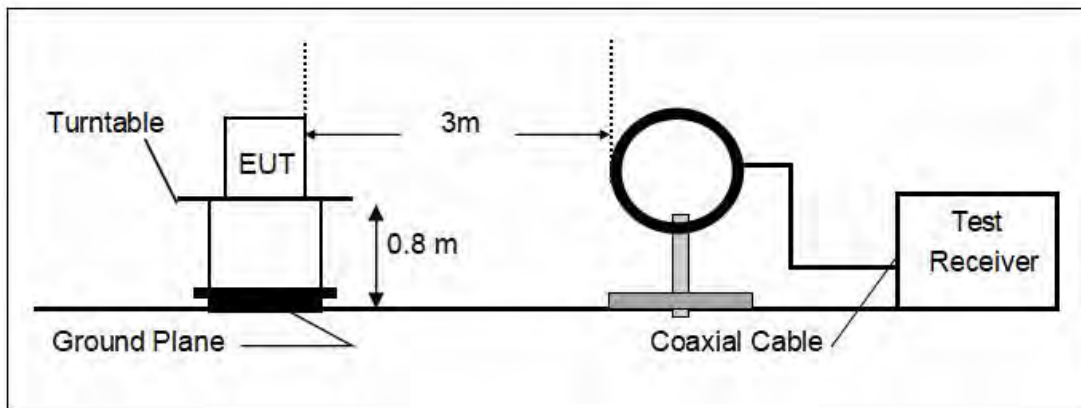
The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

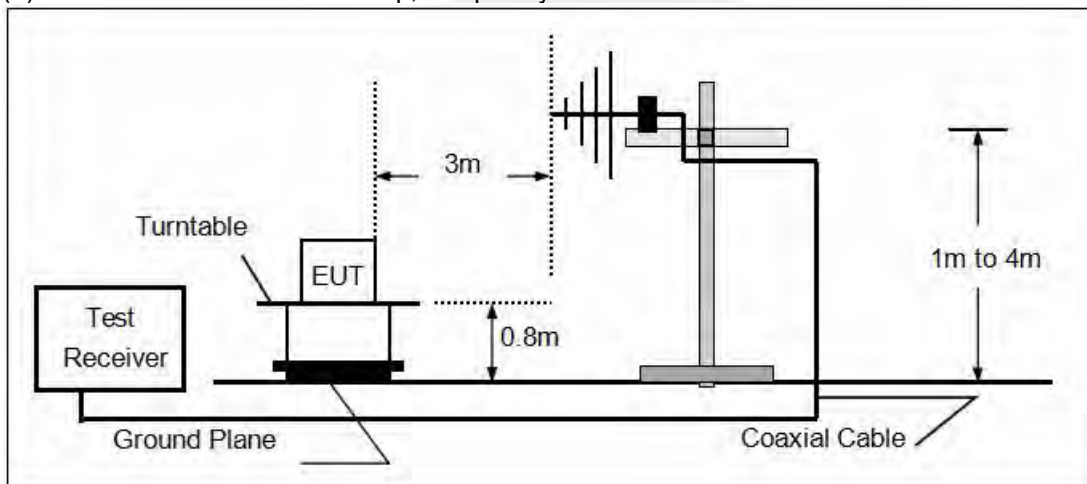
(Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.)

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

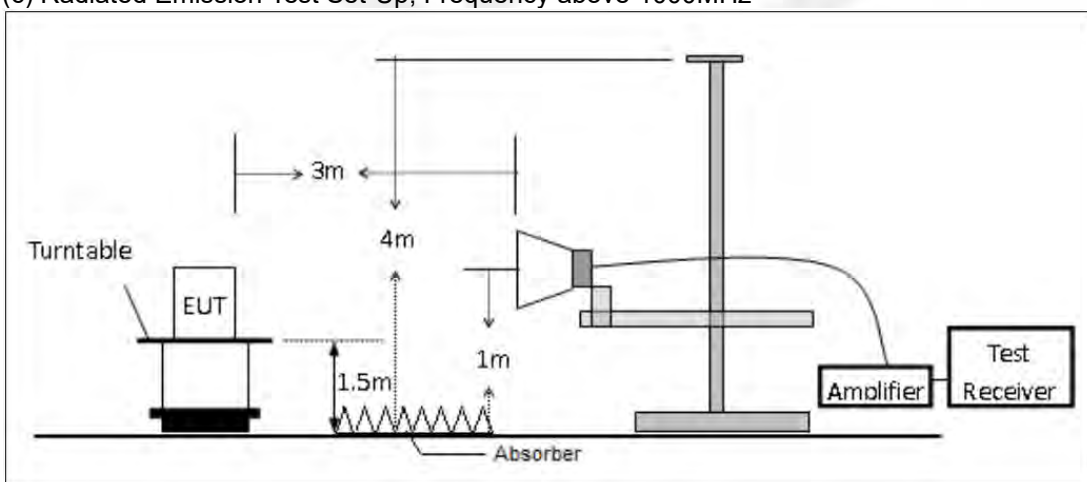
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

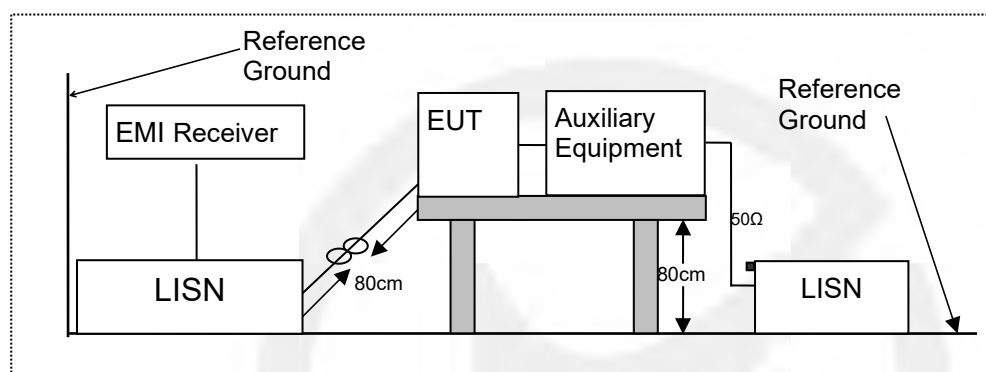


7.3 CONDUCTED EMISSION TEST SETUP

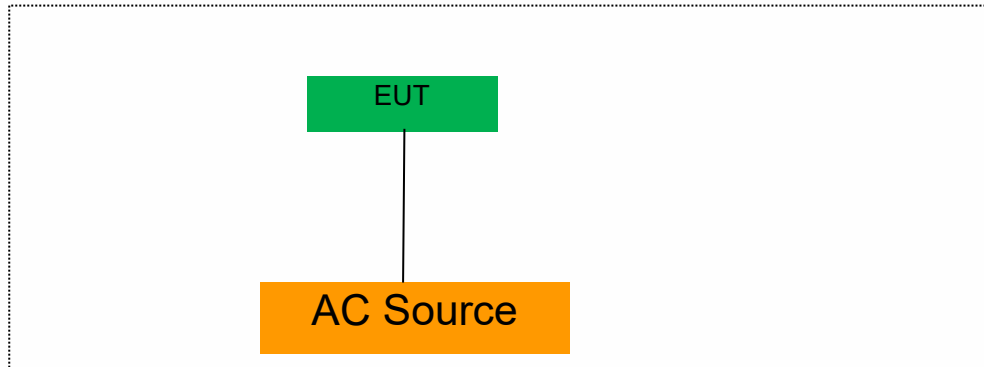
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



7.5 SUPPORT EQUIPMENT

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

Auxiliary Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

8 TEST REQUIREMENTS

8.1 BANDWIDTH MEASUREMENT

8.1.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
According to FCC Part 15.407(a)(3) for UNII Band III
According to FCC Part 15.407(e) for UNII Band III
According to 789033 D02 Section II(C)
According to 789033 D02 Section II(D)

8.1.2 Conformance Limit

(1) For the band 5.15-5.25 GHz.

(iv) For mobile and portable 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 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 collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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

8.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup.

8.1.4 Test Procedure

According to 789033 D02 v02r01 section C&D, the following is the measurement procedure.

1. Emission Bandwidth (EBW)

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.

Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

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

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

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

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

D. 99 Percent Occupied Bandwidth

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section II.G.3.d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the EBW to 789033 D02 v01r02 General UNII Test Procedures New Rules v01 define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

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

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

8.1.5 Test Results

Emission Bandwidth (26dB)

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	23.920	5168.040	5191.960	---	---
	Ant2	5180	23.560	5168.360	5191.920	---	---
	Ant1	5220	23.680	5208.360	5232.040	---	---
	Ant2	5220	23.120	5208.800	5231.920	---	---
	Ant1	5240	24.520	5227.800	5252.320	---	---
	Ant2	5240	23.680	5228.320	5252.000	---	---
	Ant1	5260	23.840	5248.160	5272.000	---	---
	Ant2	5260	23.960	5248.080	5272.040	---	---
	Ant1	5300	24.120	5288.360	5312.480	---	---
	Ant2	5300	23.320	5288.360	5311.680	---	---
	Ant1	5320	24.240	5308.120	5332.360	---	---
	Ant2	5320	24.080	5307.840	5331.920	---	---
	Ant1	5500	23.320	5488.440	5511.760	---	---
	Ant2	5500	22.920	5488.440	5511.360	---	---
	Ant1	5580	23.400	5568.360	5591.760	---	---
	Ant2	5580	23.160	5568.560	5591.720	---	---
	Ant1	5700	24.240	5687.960	5712.200	---	---
	Ant2	5700	23.680	5688.080	5711.760	---	---
	Ant1	5745	24.360	5732.920	5757.280	---	---
	Ant2	5745	23.920	5732.880	5756.800	---	---
	Ant1	5785	23.920	5773.080	5797.000	---	---
	Ant2	5785	23.440	5773.320	5796.760	---	---
	Ant1	5825	24.040	5813.040	5837.080	---	---
	Ant2	5825	24.120	5813.000	5837.120	---	---
11N20MIMO	Ant1	5180	23.320	5168.360	5191.680	---	---
	Ant2	5180	40.000	5160.000	5200.000	---	---
	Ant1	5220	24.400	5208.520	5232.920	---	---
	Ant2	5220	23.200	5208.720	5231.920	---	---
	Ant1	5240	23.960	5228.400	5252.360	---	---
	Ant2	5240	23.600	5228.680	5252.280	---	---
	Ant1	5260	23.560	5248.160	5271.720	---	---
	Ant2	5260	23.800	5248.120	5271.920	---	---
	Ant1	5300	23.120	5288.360	5311.480	---	---
	Ant2	5300	23.360	5288.200	5311.560	---	---
	Ant1	5320	23.840	5308.280	5332.120	---	---
	Ant2	5320	23.720	5307.760	5331.480	---	---
	Ant1	5500	23.240	5488.240	5511.480	---	---
	Ant2	5500	24.080	5488.240	5512.320	---	---
	Ant1	5580	23.160	5568.440	5591.600	---	---
	Ant2	5580	23.000	5568.560	5591.560	---	---
	Ant1	5700	23.040	5688.560	5711.600	---	---
	Ant2	5700	23.520	5688.240	5711.760	---	---
	Ant1	5745	23.520	5733.320	5756.840	---	---
	Ant2	5745	23.600	5732.760	5756.360	---	---
	Ant1	5785	23.520	5773.280	5796.800	---	---
	Ant2	5785	23.800	5773.000	5796.800	---	---
	Ant1	5825	24.120	5812.800	5836.920	---	---
	Ant2	5825	24.160	5813.400	5837.560	---	---

11N40MIMO	Ant1	5190	44.800	5167.600	5212.400	---	---
	Ant2	5190	45.520	5167.440	5212.960	---	---
	Ant1	5230	44.080	5208.160	5252.240	---	---
	Ant2	5230	43.840	5207.920	5251.760	---	---
	Ant1	5270	42.160	5249.280	5291.440	---	---
	Ant2	5270	43.520	5248.160	5291.680	---	---
	Ant1	5310	45.600	5287.120	5332.720	---	---
	Ant2	5310	42.880	5288.480	5331.360	---	---
	Ant1	5510	46.560	5486.400	5532.960	---	---
	Ant2	5510	45.360	5487.200	5532.560	---	---
	Ant1	5550	43.120	5528.160	5571.280	---	---
	Ant2	5550	44.000	5527.600	5571.600	---	---
	Ant1	5670	43.200	5648.480	5691.680	---	---
	Ant2	5670	44.800	5647.680	5692.480	---	---
	Ant1	5755	42.960	5733.400	5776.360	---	---
	Ant2	5755	44.080	5732.520	5776.600	---	---
	Ant1	5795	46.000	5771.320	5817.320	---	---
	Ant2	5795	45.600	5772.360	5817.960	---	---
11AC20MIMO	Ant1	5180	24.040	5168.200	5192.240	---	---
	Ant2	5180	23.960	5168.080	5192.040	---	---
	Ant1	5220	23.440	5208.640	5232.080	---	---
	Ant2	5220	24.040	5208.360	5232.400	---	---
	Ant1	5240	24.000	5228.280	5252.280	---	---
	Ant2	5240	23.600	5228.160	5251.760	---	---
	Ant1	5260	23.680	5248.320	5272.000	---	---
	Ant2	5260	23.360	5248.320	5271.680	---	---
	Ant1	5300	24.120	5288.080	5312.200	---	---
	Ant2	5300	23.760	5288.040	5311.800	---	---
	Ant1	5320	23.440	5308.480	5331.920	---	---
	Ant2	5320	23.600	5308.440	5332.040	---	---
	Ant1	5500	23.720	5488.240	5511.960	---	---
	Ant2	5500	23.760	5488.040	5511.800	---	---
	Ant1	5580	24.120	5568.280	5592.400	---	---
	Ant2	5580	23.640	5568.360	5592.000	---	---
	Ant1	5700	23.360	5688.320	5711.680	---	---
	Ant2	5700	23.480	5688.000	5711.480	---	---
	Ant1	5745	23.800	5733.320	5757.120	---	---
	Ant2	5745	23.120	5733.320	5756.440	---	---
	Ant1	5785	24.080	5773.120	5797.200	---	---
	Ant2	5785	24.280	5772.800	5797.080	---	---
	Ant1	5825	25.200	5812.240	5837.440	---	---
	Ant2	5825	24.040	5813.520	5837.560	---	---
11AC40MIMO	Ant1	5190	46.000	5167.600	5213.600	---	---
	Ant2	5190	44.320	5168.640	5212.960	---	---
	Ant1	5230	46.160	5207.280	5253.440	---	---
	Ant2	5230	43.280	5208.480	5251.760	---	---
	Ant1	5270	42.560	5249.200	5291.760	---	---
	Ant2	5270	43.760	5248.080	5291.840	---	---
	Ant1	5310	44.640	5288.480	5333.120	---	---
	Ant2	5310	43.360	5288.240	5331.600	---	---
	Ant1	5510	45.120	5487.440	5532.560	---	---
	Ant2	5510	45.120	5487.360	5532.480	---	---
	Ant1	5550	42.960	5528.160	5571.120	---	---
	Ant2	5550	42.960	5528.560	5571.520	---	---
	Ant1	5670	44.720	5648.480	5693.200	---	---

	Ant2	5670	44.240	5647.760	5692.000	---	---
	Ant1	5755	44.320	5733.240	5777.560	---	---
	Ant2	5755	44.320	5732.680	5777.000	---	---
	Ant1	5795	44.240	5772.280	5816.520	---	---
	Ant2	5795	44.720	5772.440	5817.160	---	---
11AC80MIMO	Ant1	5210	94.880	5166.320	5261.200	---	---
	Ant2	5210	86.560	5168.560	5255.120	---	---
	Ant1	5290	97.280	5236.720	5334.000	---	---
	Ant2	5290	87.200	5245.840	5333.040	---	---
	Ant1	5530	84.160	5488.240	5572.400	---	---
	Ant2	5530	85.440	5487.280	5572.720	---	---
	Ant1	5610	89.760	5564.880	5654.640	---	---
	Ant2	5610	87.200	5568.240	5655.440	---	---
	Ant1	5775	154.880	5698.520	5853.400	---	---
	Ant2	5775	99.840	5717.400	5817.240	---	---
11AC160MIMO	Ant1	5250	319.680	5090.320	5410.000	---	---
	Ant2	5250	319.680	5090.000	5409.680	---	---
	Ant1	5570	320.000	5410.000	5730.000	---	---
	Ant2	5570	319.680	5410.320	5730.000	---	---

11A Ant1 5180



11A Ant2 5180



11A Ant1 5220



11A_Ant2_5220



11A_Ant1_5240



11A_Ant2_5240



11A_Ant1_5260



11A_Ant2_5260



11A_Ant1_5300



11A_Ant2_5300



11A_Ant1_5320



11A_Ant2_5320



11A_Ant1_5500



11A_Ant2_5500



11A_Ant1_5580



11A_Ant2_5580



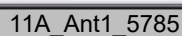
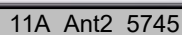
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11A_Ant2_5700



11A_Ant1_5745





11A_Ant2_5785



11A_Ant1_5825



11A_Ant2_5825



11N20MIMO_Ant1_5180



11N20MIMO_Ant2_5180



11N20MIMO_Ant1_5220



11N20MIMO_Ant2_5220



11N20MIMO_Ant1_5240



11N20MIMO_Ant2_5240



11N20MIMO_Ant1_5260



11N20MIMO_Ant2_5260



11N20MIMO_Ant1_5300



11N20MIMO_Ant2_5300



11N20MIMO_Ant1_5320



11N20MIMO_Ant2_5320



11N20MIMO_Ant1_5500



11N20MIMO_Ant2_5500



11N20MIMO_Ant1_5580



11N20MIMO_Ant2_5580



11N20MIMO_Ant1_5700



11N20MIMO_Ant2_5700



11N20MIMO_Ant1_5745



11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785



11N20MIMO_Ant2_5785



11N20MIMO_Ant1_5825



11N20MIMO_Ant2_5825



11N40MIMO_Ant1_5190



11N40MIMO_Ant2_5190



11N40MIMO_Ant1_5230



11N40MIMO_Ant2_5230



11N40MIMO_Ant1_5270



11N40MIMO_Ant2_5270



11N40MIMO_Ant1_5310



11N40MIMO_Ant2_5310



11N40MIMO_Ant1_5510



11N40MIMO_Ant2_5510



11N40MIMO_Ant1_5550



11N40MIMO_Ant2_5550



11N40MIMO_Ant1_5670



11N40MIMO_Ant2_5670



11N40MIMO_Ant1_5755



11N40MIMO_Ant2_5755



11N40MIMO_Ant1_5795



11N40MIMO_Ant2_5795



11AC20MIMO_Ant1_5180



11AC20MIMO_Ant2_5180



11AC20MIMO_Ant1_5220



11AC20MIMO_Ant2_5220



11AC20MIMO_Ant1_5240



11AC20MIMO_Ant2_5240



11AC20MIMO_Ant1_5260



11AC20MIMO_Ant2_5260



11AC20MIMO_Ant1_5300



11AC20MIMO_Ant2_5300



11AC20MIMO_Ant1_5320



11AC20MIMO_Ant2_5320



11AC20MIMO_Ant1_5500



11AC20MIMO_Ant2_5500



11AC20MIMO_Ant1_5580



11AC20MIMO_Ant2_5580



11AC20MIMO_Ant1_5700



11AC20MIMO_Ant2_5700



11AC20MIMO_Ant1_5745



11AC20MIMO_Ant2_5745



11AC20MIMO_Ant1_5785



11AC20MIMO_Ant2_5785



11AC20MIMO_Ant1_5825



11AC20MIMO_Ant2_5825



11AC40MIMO_Ant1_5190



11AC40MIMO_Ant2_5190



11AC40MIMO_Ant1_5230



11AC40MIMO_Ant2_5230



11AC40MIMO_Ant1_5270



11AC40MIMO_Ant2_5270



11AC40MIMO_Ant1_5310



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11AC40MIMO_Ant1_5510



11AC40MIMO_Ant2_5510



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11AC40MIMO_Ant2_5755



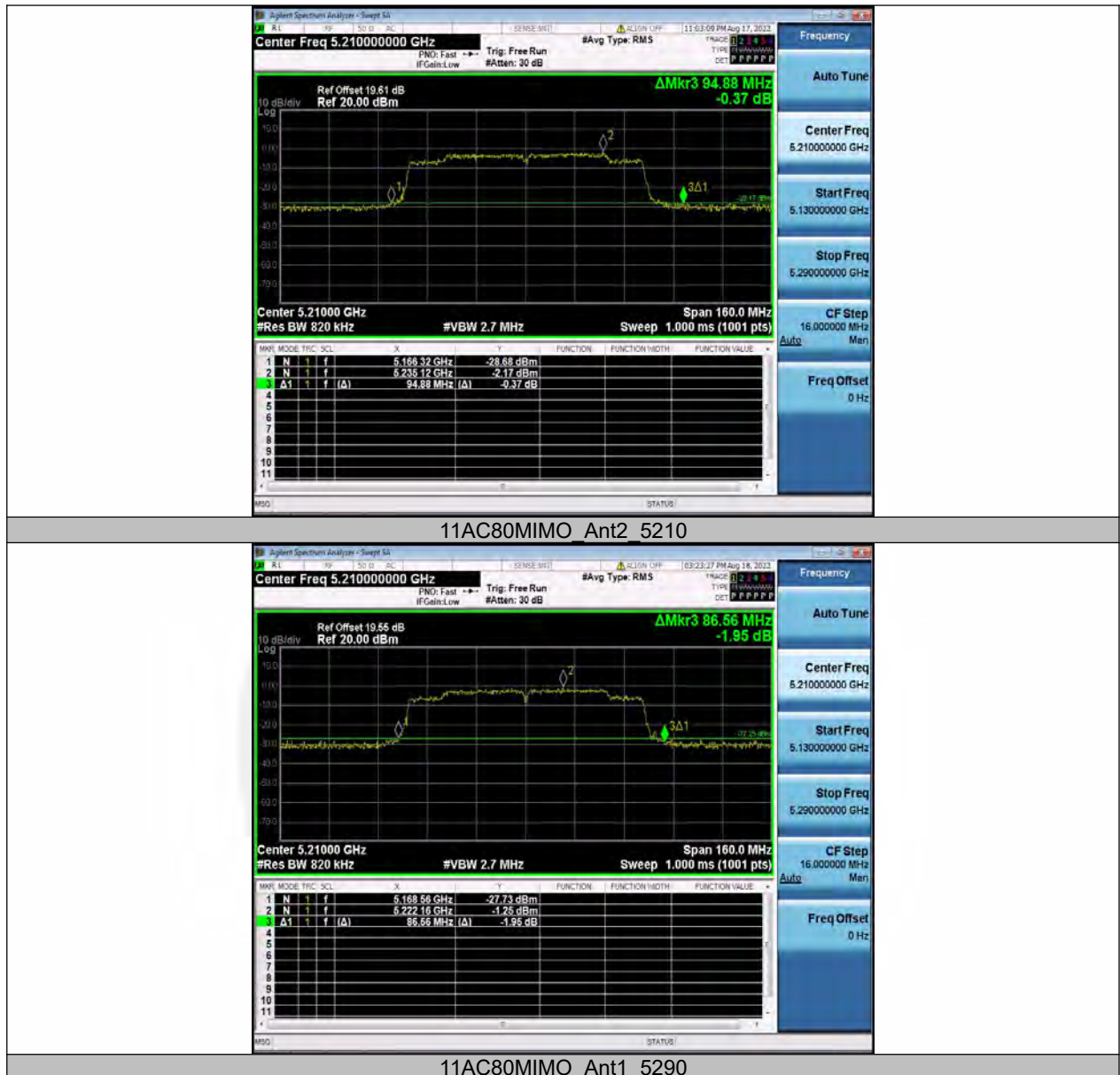
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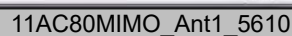




11AC80MIMO_Ant2_5290



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11AC80MIMO_Ant2_5610



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11AC80MIMO_Ant2_5775



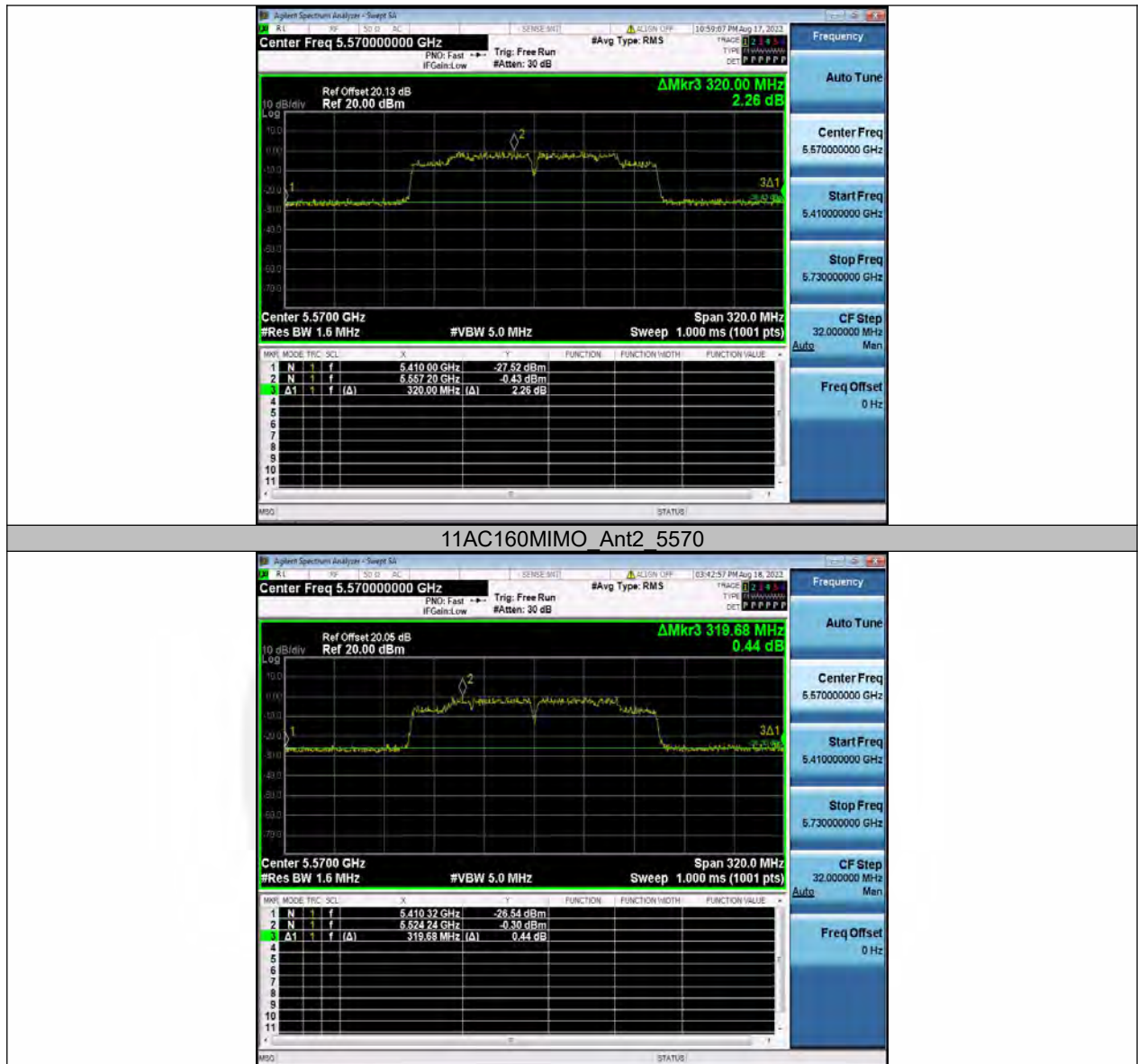
11AC160MIMO_Ant1_5250



11AC160MIMO_Ant2_5250



11AC160MIMO_Ant1_5570



Occupied channel bandwidth (99%)

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.407	5171.335	5188.738	---	---
	Ant2	5180	17.340	5171.378	5188.696	---	---
	Ant1	5220	17.443	5211.377	5228.812	---	---
	Ant2	5220	17.310	5211.400	5228.695	---	---
	Ant1	5240	17.367	5231.411	5248.771	---	---
	Ant2	5240	17.304	5231.409	5248.699	---	---
	Ant1	5260	17.399	5251.377	5268.771	---	---
	Ant2	5260	17.310	5251.367	5268.678	---	---
	Ant1	5300	17.369	5291.380	5308.751	---	---
	Ant2	5300	17.365	5291.297	5308.665	---	---
	Ant1	5320	17.346	5311.394	5328.729	---	---
	Ant2	5320	17.294	5311.355	5328.641	---	---
	Ant1	5500	17.307	5491.325	5508.645	---	---
	Ant2	5500	17.286	5491.383	5508.664	---	---
	Ant1	5580	17.267	5571.425	5588.678	---	---
	Ant2	5580	17.331	5571.325	5588.657	---	---
	Ant1	5700	17.288	5691.341	5708.631	---	---
	Ant2	5700	17.300	5691.344	5708.620	---	---
	Ant1	5745	17.316	5736.372	5753.689	---	---
	Ant2	5745	17.336	5736.332	5753.667	---	---
	Ant1	5785	17.406	5776.295	5793.697	---	---
	Ant2	5785	17.367	5776.346	5793.676	---	---
	Ant1	5825	17.407	5816.316	5833.711	---	---
	Ant2	5825	17.397	5816.332	5833.729	---	---
11N20MIMO	Ant1	5180	18.373	5170.8237	5189.1967	---	---
	Ant2	5180	29.039	5165.5574	5194.5964	---	---
	Ant1	5220	18.418	5210.8466	5229.2646	---	---
	Ant2	5220	18.357	5210.8669	5229.2239	---	---
	Ant1	5240	18.491	5230.8461	5249.3371	---	---
	Ant2	5240	18.447	5230.8249	5249.2719	---	---
	Ant1	5260	18.368	5250.8877	5269.2557	---	---
	Ant2	5260	18.394	5250.8349	5269.2289	---	---
	Ant1	5300	18.394	5290.8390	5309.2330	---	---
	Ant2	5300	18.397	5290.8213	5309.2183	---	---
	Ant1	5320	18.386	5310.8486	5329.2346	---	---
	Ant2	5320	18.387	5310.7840	5329.1710	---	---
	Ant1	5500	18.365	5490.8297	5509.1947	---	---
	Ant2	5500	18.288	5490.8612	5509.1492	---	---
	Ant1	5580	18.406	5570.8083	5589.2143	---	---
	Ant2	5580	18.337	5570.8521	5589.1891	---	---
	Ant1	5700	18.358	5690.8328	5709.1908	---	---
	Ant2	5700	18.374	5690.8086	5709.1826	---	---
	Ant1	5745	18.365	5735.8309	5754.1959	---	---
	Ant2	5745	18.383	5735.7662	5754.1492	---	---
	Ant1	5785	18.418	5775.7558	5794.1738	---	---
	Ant2	5785	18.433	5775.7475	5794.1805	---	---
	Ant1	5825	18.446	5815.7696	5834.2156	---	---
	Ant2	5825	18.383	5815.8491	5834.2321	---	---
11N40MIMO	Ant1	5190	36.982	5171.5294	5208.5114	---	---
	Ant2	5190	36.921	5171.5882	5208.5092	---	---
	Ant1	5230	36.937	5211.6543	5248.5913	---	---
	Ant2	5230	36.899	5211.5993	5248.4983	---	---

	Ant1	5270	36.843	5251.7218	5288.5648	---	---
	Ant2	5270	36.822	5251.6632	5288.4852	---	---
	Ant1	5310	36.867	5291.6449	5328.5119	---	---
	Ant2	5310	36.844	5291.5655	5328.4095	---	---
	Ant1	5510	36.835	5491.6061	5528.4411	---	---
	Ant2	5510	36.831	5491.5635	5528.3945	---	---
	Ant1	5550	36.785	5531.6186	5568.4036	---	---
	Ant2	5550	36.848	5531.6022	5568.4502	---	---
	Ant1	5670	36.924	5651.6358	5688.5598	---	---
	Ant2	5670	36.872	5651.6290	5688.5010	---	---
	Ant1	5755	36.785	5736.5956	5773.3806	---	---
	Ant2	5755	36.824	5736.5484	5773.3724	---	---
	Ant1	5795	36.929	5776.5041	5813.4331	---	---
	Ant2	5795	36.907	5776.5370	5813.4440	---	---
11AC20MIMO	Ant1	5180	18.417	5170.7765	5189.1935	---	---
	Ant2	5180	18.319	5170.8874	5189.2064	---	---
	Ant1	5220	18.418	5210.8612	5229.2792	---	---
	Ant2	5220	18.360	5210.8739	5229.2339	---	---
	Ant1	5240	18.427	5230.8730	5249.3000	---	---
	Ant2	5240	18.411	5230.8426	5249.2536	---	---
	Ant1	5260	18.433	5250.8971	5269.3301	---	---
	Ant2	5260	18.333	5250.8579	5269.1909	---	---
	Ant1	5300	18.433	5290.8444	5309.2774	---	---
	Ant2	5300	18.367	5290.8203	5309.1873	---	---
	Ant1	5320	18.394	5310.8452	5329.2392	---	---
	Ant2	5320	18.358	5310.8304	5329.1884	---	---
	Ant1	5500	18.356	5490.8547	5509.2107	---	---
	Ant2	5500	18.338	5490.8126	5509.1506	---	---
	Ant1	5580	18.447	5570.8036	5589.2506	---	---
	Ant2	5580	18.374	5570.8567	5589.2307	---	---
	Ant1	5700	18.335	5690.8198	5709.1548	---	---
	Ant2	5700	18.387	5690.7820	5709.1690	---	---
	Ant1	5745	18.382	5735.8163	5754.1983	---	---
	Ant2	5745	18.387	5735.7861	5754.1731	---	---
	Ant1	5785	18.411	5775.7642	5794.1752	---	---
	Ant2	5785	18.404	5775.7762	5794.1802	---	---
	Ant1	5825	18.409	5815.7924	5834.2014	---	---
	Ant2	5825	18.391	5815.8439	5834.2349	---	---
11AC40MIMO	Ant1	5190	37.014	5171.5123	5208.5263	---	---
	Ant2	5190	36.932	5171.5824	5208.5144	---	---
	Ant1	5230	36.933	5211.6251	5248.5581	---	---
	Ant2	5230	36.835	5211.6104	5248.4454	---	---
	Ant1	5270	36.796	5251.7165	5288.5125	---	---
	Ant2	5270	36.896	5251.6380	5288.5340	---	---
	Ant1	5310	36.875	5291.6106	5328.4856	---	---
	Ant2	5310	36.787	5291.5603	5328.3473	---	---
	Ant1	5510	36.838	5491.5842	5528.4222	---	---
	Ant2	5510	36.795	5491.6054	5528.4004	---	---
	Ant1	5550	36.853	5531.6019	5568.4549	---	---
	Ant2	5550	36.888	5531.5990	5568.4870	---	---
	Ant1	5670	36.824	5651.6852	5688.5092	---	---
	Ant2	5670	36.871	5651.6542	5688.5252	---	---
	Ant1	5755	36.802	5736.5773	5773.3793	---	---
	Ant2	5755	36.865	5736.5038	5773.3688	---	---
	Ant1	5795	37.019	5776.4750	5813.4940	---	---

	Ant2	5795	36.926	5776.5392	5813.4652	---	---
11AC80MIMO	Ant1	5210	75.796	5172.2629	5248.0589	---	---
	Ant2	5210	75.483	5172.3890	5247.8720	---	---
	Ant1	5290	75.413	5252.4876	5327.9006	---	---
	Ant2	5290	75.346	5252.3608	5327.7068	---	---
	Ant1	5530	75.361	5492.3185	5567.6795	---	---
	Ant2	5530	75.454	5492.3148	5567.7688	---	---
	Ant1	5610	75.486	5572.2809	5647.7669	---	---
	Ant2	5610	75.327	5572.3402	5647.6672	---	---
	Ant1	5775	75.557	5737.0366	5812.5936	---	---
	Ant2	5775	75.751	5736.9695	5812.7205	---	---
11AC160MIMO	Ant1	5250	157.93	5171.6977	5329.6277	---	---
	Ant2	5250	156.77	5171.9266	5328.6966	---	---
	Ant1	5570	156.07	5492.0983	5648.1683	---	---
	Ant2	5570	155.50	5492.3993	5647.8993	---	---



11A_Ant1_5180



11A_Ant2_5180



11A_Ant1_5220



11A_Ant2_5220



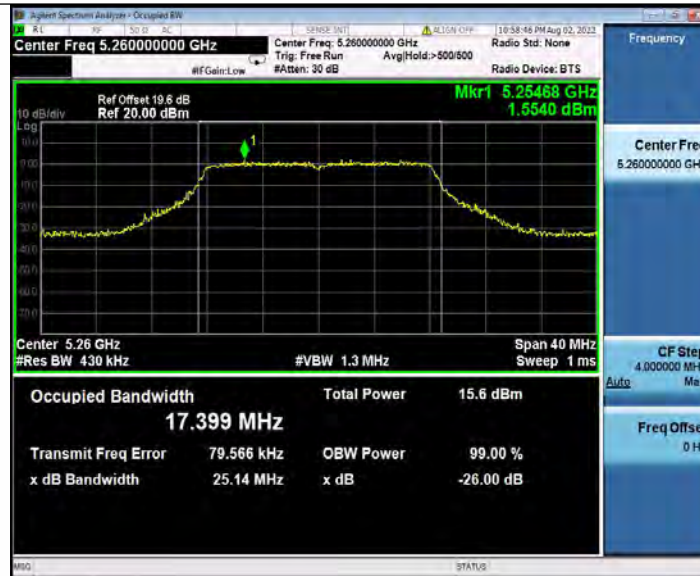
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11A_Ant2_5240



11A_Ant1_5260



11A_Ant2_5260



11A_Ant1_5300



11A_Ant2_5300



11A_Ant1_5320



11A_Ant2_5320



11A_Ant1_5500



11A_Ant2_5500



11A_Ant1_5580



11A_Ant2_5580



11A_Ant1_5700



11A_Ant2_5700



11A_Ant1_5745



11A_Ant2_5745



11A_Ant1_5785



11A_Ant2_5785



11A_Ant1_5825



11A Ant2 5825



11N20MIMO Ant1 5180



11N20MIMO_Ant2_5180



11N20MIMO_Ant1_5220



11N20MIMO_Ant2_5220



11N20MIMO_Ant1_5240



11N20MIMO_Ant2_5240



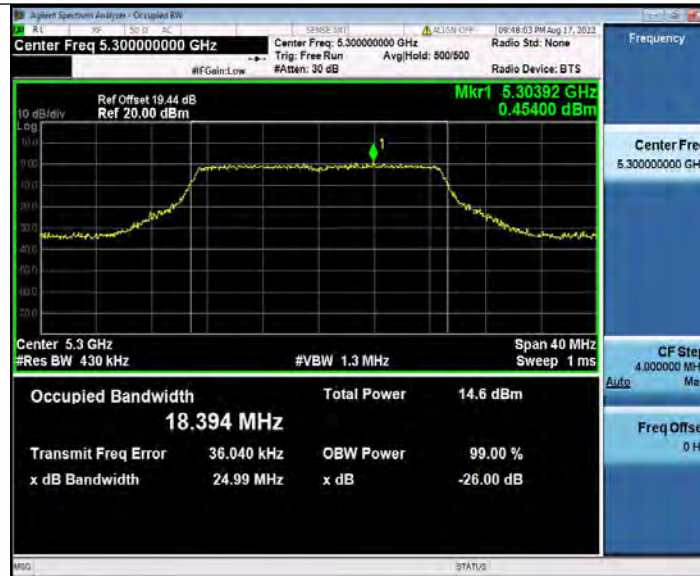
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11N20MIMO_Ant2_5320



11N20MIMO_Ant1_5500



11N20MIMO_Ant2_5500



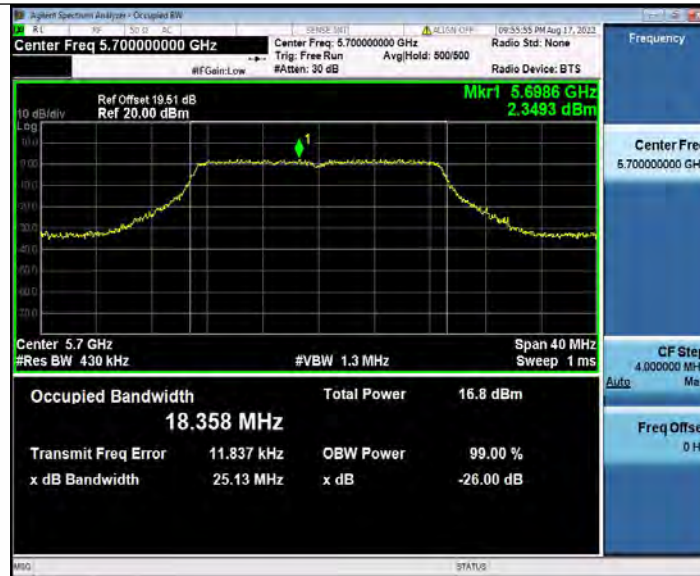
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11N20MIMO_Ant1_5700



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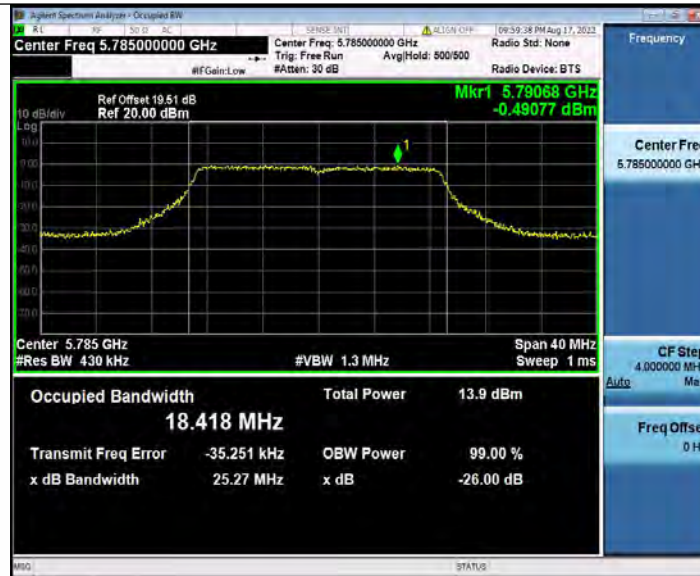
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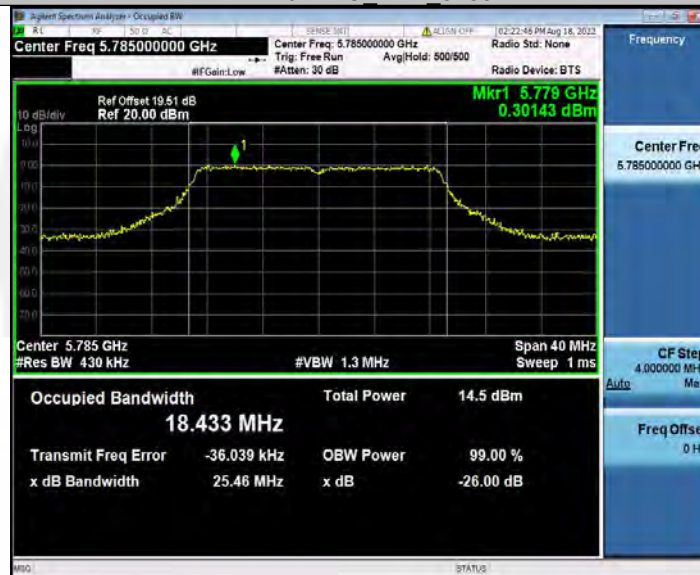
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11N20MIMO_Ant2_5785



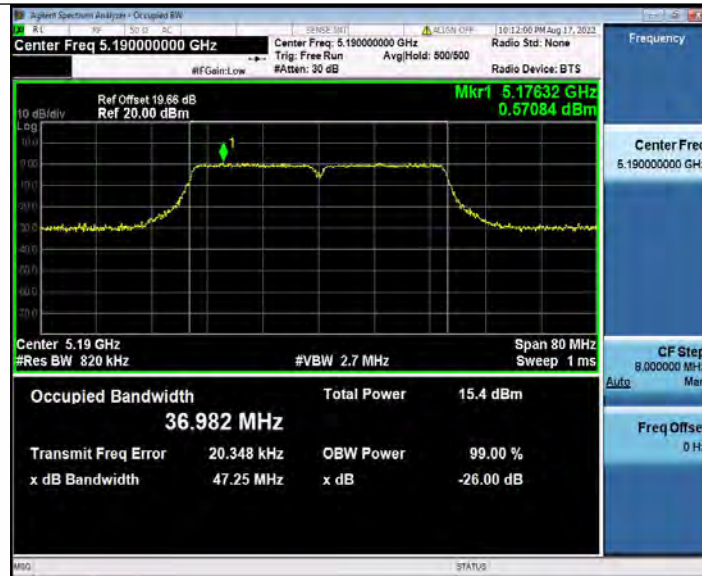
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11N20MIMO_Ant2_5825



11N40MIMO_Ant1_5190



11N40MIMO_Ant2_5190



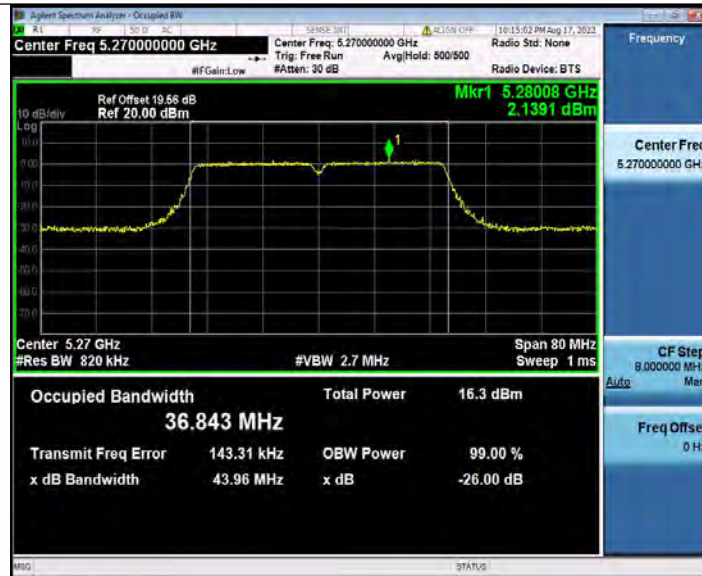
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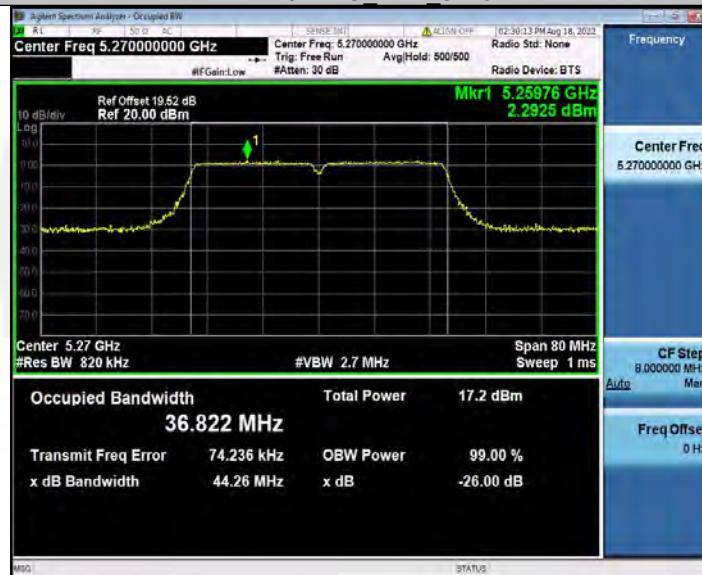
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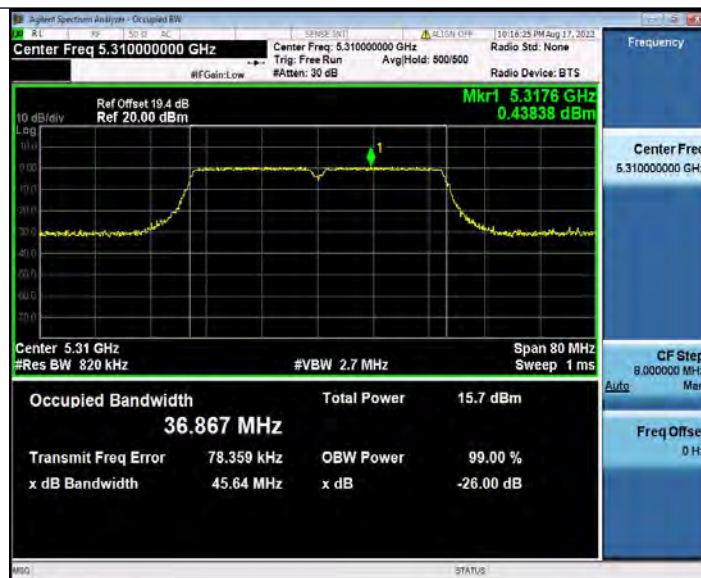
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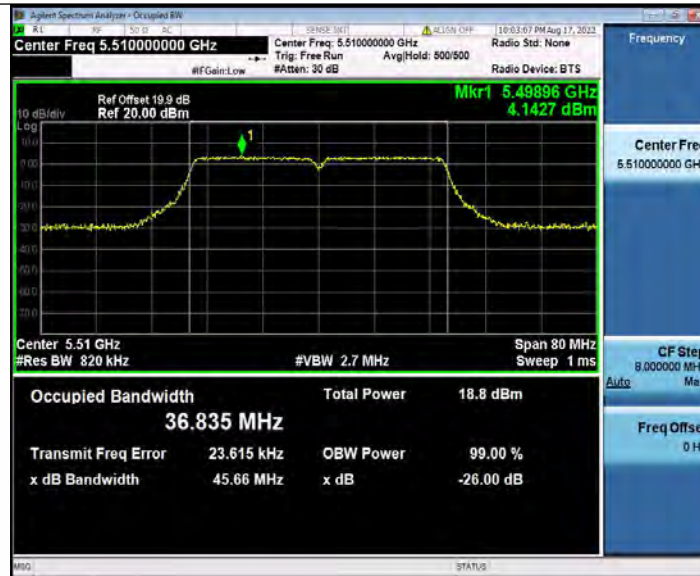
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11N40MIMO_Ant2_5310



11N40MIMO_Ant1_5510



11N40MIMO_Ant2_5510



11N40MIMO_Ant1_5550



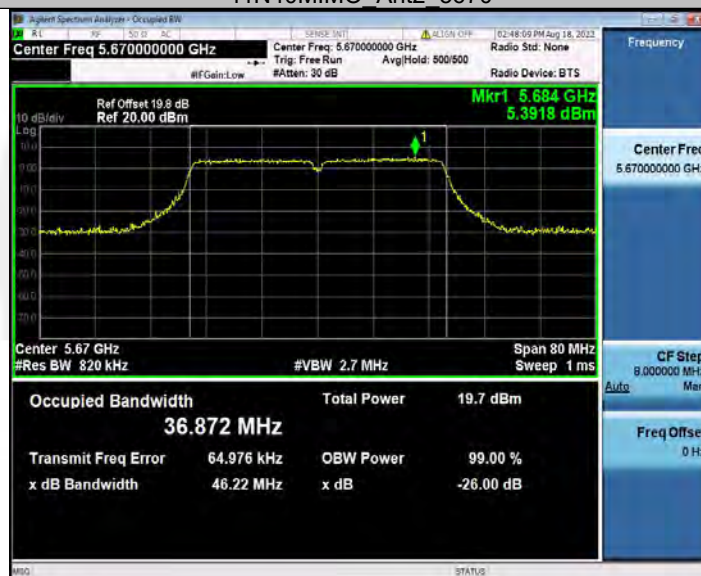
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11N40MIMO_Ant2_5670



11N40MIMO_Ant1_5755



11N40MIMO_Ant2_5755



11N40MIMO_Ant1_5795



11N40MIMO_Ant2_5795



11AC20MIMO_Ant1_5180