



Partial FCC RF TEST REPORT

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2205-1, XT2205-2
FCC ID : IHDT56AE7
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : 15E 6 GHz Low Power Indoor Client (6XD)
TEST DATE(S) : Apr. 28, 2022 ~ May 12, 2022

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen).

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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History of this test report

Report No.	Version	Description	Issued Date
FR240834H	01	Initial issue of report	Jun. 06, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i) 15.407(a)(10)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)(8)	Maximum Conducted Output Power	Reporting only	-
3.2	15.407(a)(8)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(8)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(6)	In-Band Emissions (Channel Mask)	Pass	-
-	15.407(d)(6)	Contention Based Protocol	Not Performed	-
3.5	15.407(b)	Unwanted Emissions	Pass	Under limit 4.52 dB at 7131.60 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 14.29 dB at 0.169 MHz
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Remark: The test report for Contention Based Protocol will be issued separately.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2205-1, XT2205-2
FCC ID	IHDT56AE7
IMEI Code	Conducted: 357910940014128 Conduction: 357910940014755 Radiation: 351910940014250
HW Version	DVT2
SW Version	S2ST32.48
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5955 MHz ~ 7095 MHz
Maximum EIRP	<5955 MHz ~ 7095 MHz > 802.11ax HE20 : 9.08 dBm / 0.0081 W 802.11ax HE40 : 9.02 dBm / 0.0080 W 802.11ax HE80 : 9.71 dBm / 0.0094 W
99% Occupied Bandwidth	802.11ax HE20 : 20.38 MHz 802.11ax HE40 : 39.96 MHz 802.11ax HE80 : 78.48 MHz
Antenna Type / Gain	<5955 MHz ~ 7095 MHz > <Ant. 1> : Loop Antenna with gain -8.5 dBi <Ant. 2> : ILA Antenna with gain -8.5 dBi
Type of Modulation	802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
2. For 20M Bandwidth, the CH233 (Center Frequency = 7115MHz) is not supported.
3. WLAN 6G Ant. 1 / Ant. 2 corresponding to EUT Photo Ant. 2 / Ant. 9.
4. WIFI MIMO only support STBC by manufacturer declared.
5. 802.11ax support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) are tested for conducted power/PSD/Channel Mask/Radiated Spurious, the PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance, all the other test case were performed with full RU with its maximum power/PSD.
6. The EUT does not support channel puncturing mode.
7. This EUT supports STBC mode, not support CDD mode which controlled by MTK chipset software. This chipset support WIFI MIMO(2*2), and support STBC mode by manufacturer declared.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Specification of Accessory

Specification of Accessory				
AC Adapter 1	Brand Name	Motorola(Salom)	Model Name	MC-301
AC Adapter 2	Brand Name	Motorola(Acbel)	Model Name	MC-301
Battery	Brand Name	Motorola(ATL)	Model Name	NF50
USB Cable 1	Brand Name	Motorola(Saibao)	Model Name	SC18D13215
USB Cable 2	Brand Name	Motorola(Cabletech)	Model Name	SC18D13216
USB Cable 3	Brand Name	Motorola(Luxshare)	Model Name	SC18D13217

1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH04-KS 03CH06-KS	CN1257	314309

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test data subcontracted: Conducted test cases in section 3.1~3.4 of this report.



1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a
2.	03CH06-KS	AUDIX	E3	6.2009-8-24al
3.	CO01-KS	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

<U-NII-5, 6, 7, 8>

BW 20M	Channel	1	5	9	13	17	21	25	29
	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	Channel	3		11		19		27	
	Freq. (MHz)	5965		6005		6045		6085	
BW 80M	Channel	7				23			
	Freq. (MHz)	5985				6065			

BW 20M	Channel	33	37	41	45	49	53	57	61
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	Channel	35		43		51		59	
	Freq. (MHz)	6125		6165		6205		6245	
BW 80M	Channel	39				55			
	Freq. (MHz)	6145				6225			

BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq. (MHz)	6305				6385			

BW 20M	Channel	97	101	105	109	113	117	121	125
	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575
BW 40M	Channel	99		107		115		123	
	Freq. (MHz)	6445		6485		6525		6565	
BW 80M	Channel	103				119			
	Freq. (MHz)	6465				6545			



BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq. (MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq. (MHz)	6625				6705			

BW 20M	Channel	161	165	169	173	177	181	185	189
	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	6895
BW 40M	Channel	163		171		179		187	
	Freq. (MHz)	6765		6805		6845		6885	
BW 80M	Channel	167				183			
	Freq. (MHz)	6785				6865			

BW 20M	Channel	193	197	201	205	209	213	217	221
	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055
BW 40M	Channel	195		203		211		219	
	Freq. (MHz)	6925		6965		7005		7045	
BW 80M	Channel	199				215			
	Freq. (MHz)	6945				7025			

BW 20M	Channel	225	229
	Freq. (MHz)	7075	7095
BW 40M	Channel	227	
	Freq. (MHz)	7085	



2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

RSE Co-location
11ax (HE40)_CH227(RU242_62) TX + LTE B30 Link (BW=10M)

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN Link(6G) + USB Cable 1(Charging from Adapter 1) + Battery 1

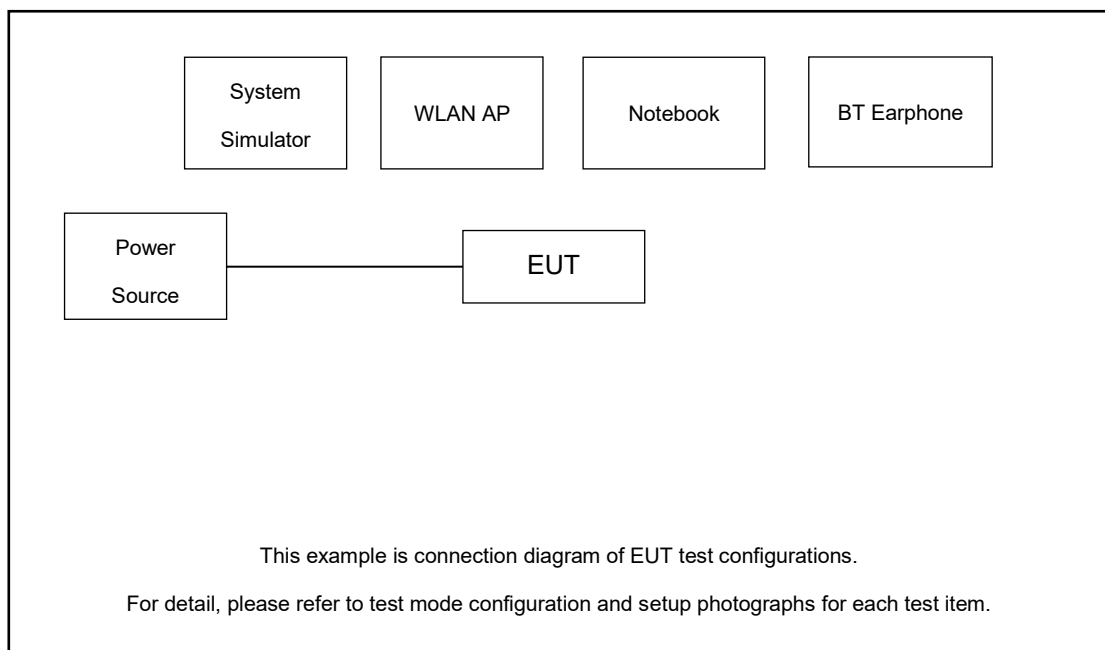
Ch. #		UNII-5	UNII-6	UNII-7	UNII-8
		802.11ax HE20	802.11ax HE20	802.11ax HE20	802.11ax HE20
L	Low	001	097	117	189
M	Middle	045	105	149	209
H	High	093	113	181	229

Ch. #		UNII-5	UNII-6	UNII-7	UNII-8
		802.11ax HE40	802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	003	099	123	195
M	Middle	043	-	147	203
H	High	091	107	179	227

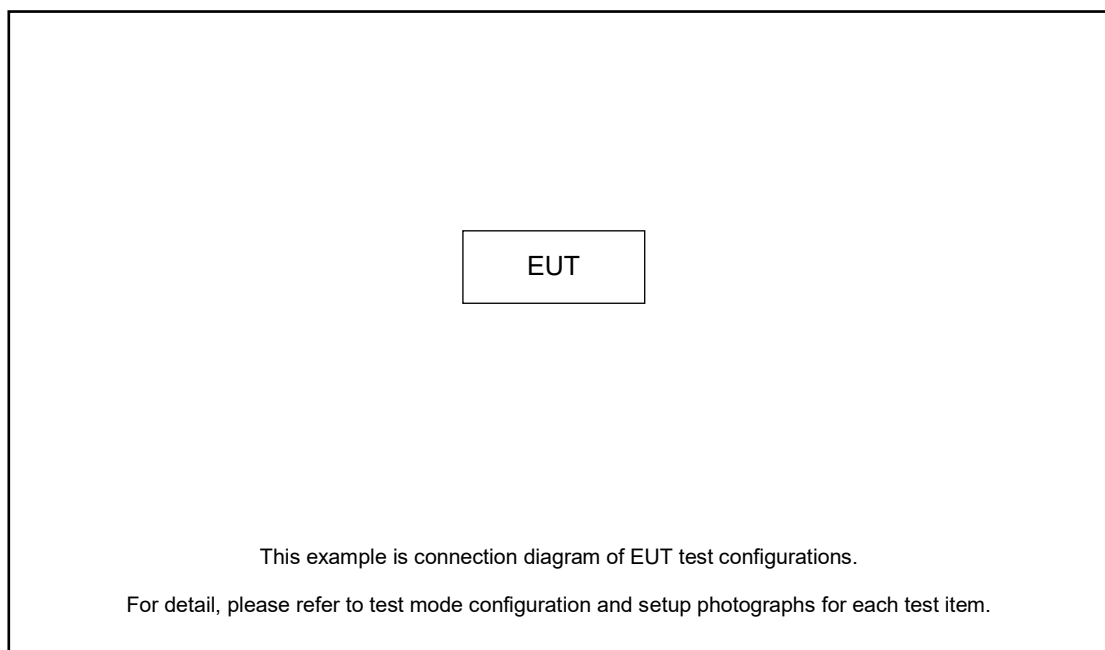
Ch. #		UNII-5	UNII-6	UNII-7	UNII-8
		802.11ax HE80	802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	007	103	135	199
M	Middle	039		151	-
H	High	087		167	215

2.3 Connection Diagram of Test System

For AC Conducted Emission



For Radiated Emission



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.56 dB and 20dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 5.56 + 20 = 25.56 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Limit of 26dB & 99% Occupied Bandwidth

<FCC 14-30 CFR 15.407>

(a)(10) The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

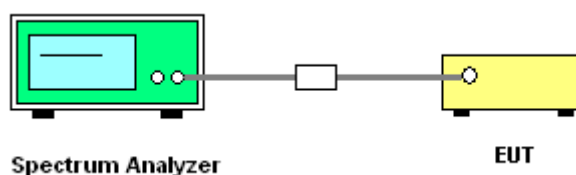
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. 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 analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum conducted Output Power and Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

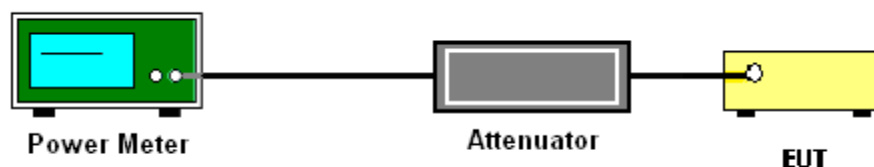
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.
4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

3.2.4 Test Setup



3.2.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.

3.3 Fundamental Power Spectral Density Measurement

3.3.1 Limit of Fundamental Power Spectral Density

<FCC 14-30 CFR 15.407>

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band.

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

Method SA-2

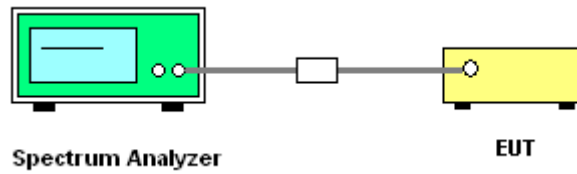
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 In-Band Emissions (Channel Mask)

3.4.1 Limit of Unwanted Emissions

<FCC 14-30 CFR 15.407>

(b)(6) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

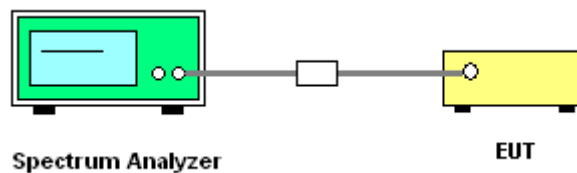
The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.

Section J) In-Band Emissions.

1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.

3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a. Suppressed by 20 dB at 1 MHz outside of the channel edge.
 - b. Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
4. Adjust the span to encompass the entire mask as necessary.
5. Clear trace.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

3.4.4 Test Setup



3.4.5 Test Result

Please refer to Appendix A.

3.5 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.5.1 Limit of Unwanted Emissions

- (1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

According 987594 D02 U-NII 6GHz EMC Measurement v01 section G:

Unwanted emissions outside of restricted bands are measured with a RMS detector.

In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

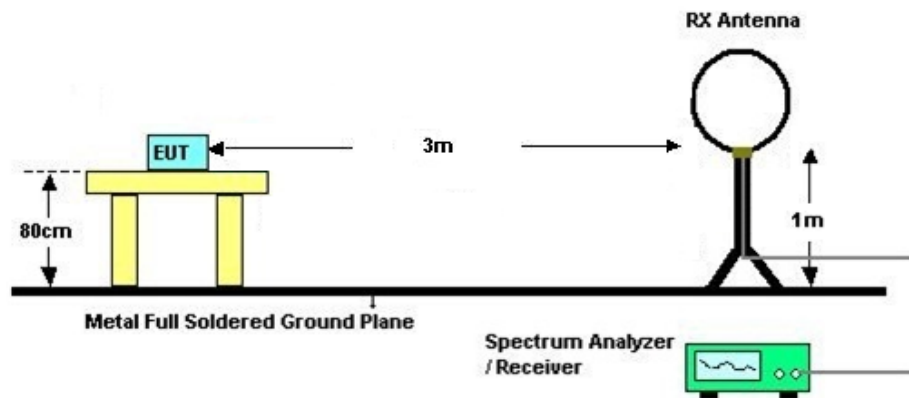


3.5.3 Test Procedures

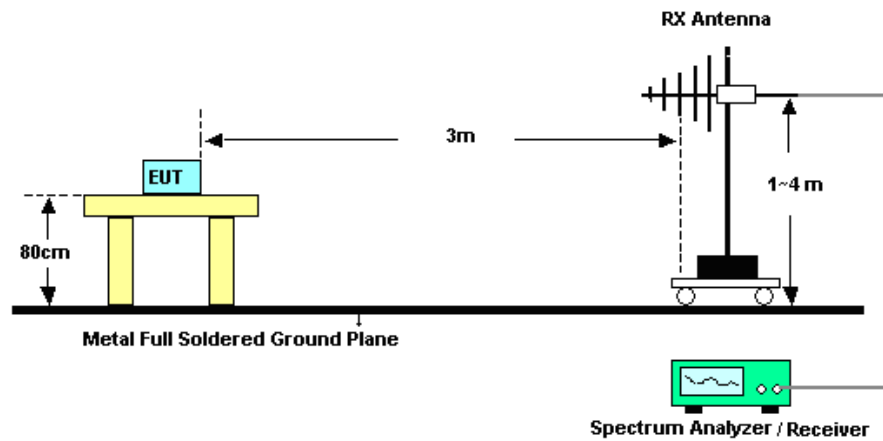
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.5.4 Test Setup

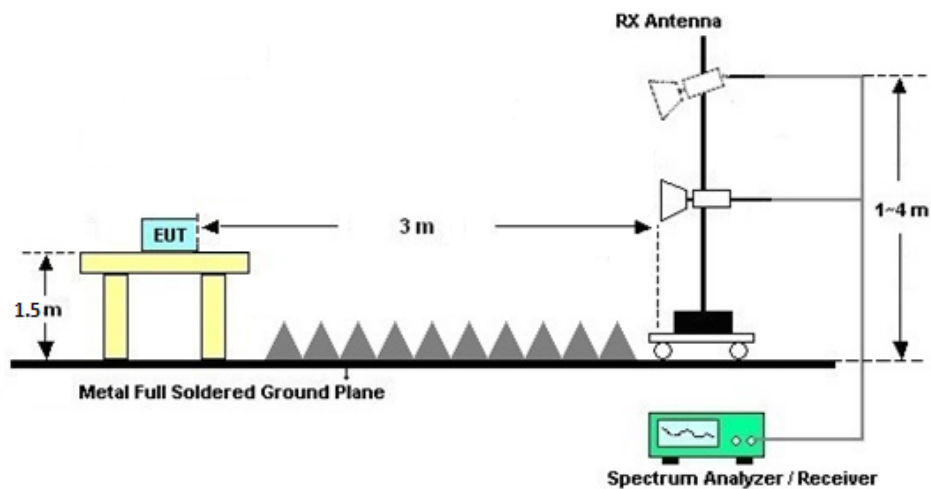
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C & D

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C & D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

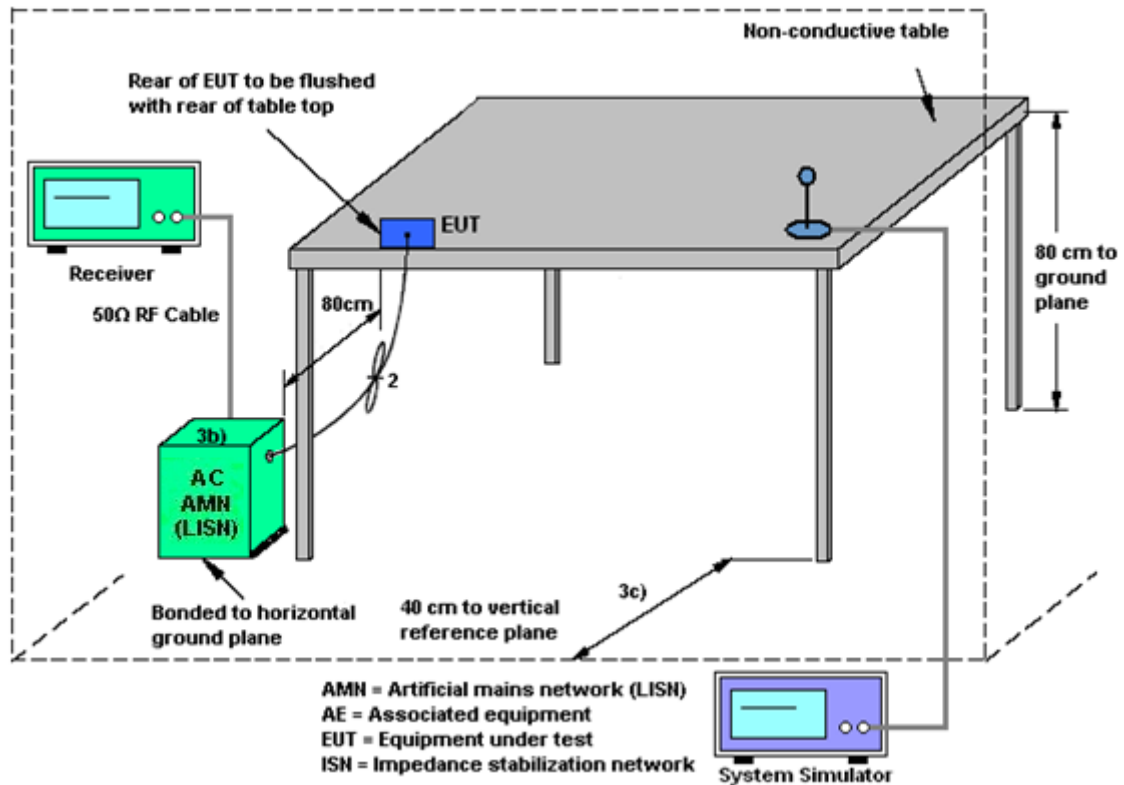
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used. The EUT complies with the requirement of 15.203.

3.7.3 Antenna Gain

<STBC Modes>

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Basic methodology with NANT transmit antennas, each with the same directional gain G_{ANT} dBi, being driven by NANT transmitter outputs of equal power, and If all transmit signals are completely uncorrelated with each other,

Directional gain = G_{ANT}

<STBC Modes>				
	Ant. 1	Ant. 2	DG for Power	DG for PSD
	(dBi)	(dBi)	(dBi)	(dBi)
U-NII-5	-8.50	-8.50	-8.50	-8.50
U-NII-6	-8.50	-8.50	-8.50	-8.50
U-NII-7	-8.50	-8.50	-8.50	-8.50
U-NII-8	-8.50	-8.50	-8.50	-8.50



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022	Apr. 28, 2022~ May 12, 2022	Apr. 06, 2023	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 28, 2021	Apr. 28, 2022~ May 12, 2022	Dec. 27, 2022	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 28, 2021	Apr. 28, 2022~ May 12, 2022	Dec. 27, 2022	Conducted (TH01-SZ)
EMI Test Receiver	Keysight	N9038A	MY572901 51	3Hz~8.5GHz;M ax 30dBm	Jul. 12, 2021	May 12, 2022	Jul. 11, 2022	Radiation (03CH04-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY575410 79	10Hz~44G,MAX 30dB	Oct. 14, 2021	May 12, 2022	Oct. 13, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	May 12, 2022	Oct. 29, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz~1GHz	May 30, 2021	May 12, 2022	May 29, 2022	Radiation (03CH05-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 18, 2021	May 12, 2022	Oct. 18, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2022	May 12, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	Burgeon	BPA-530	102219	0.01MHz ~3000MHz	Nov. 01, 2021	May 12, 2022	Oct. 31, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 05, 2022	May 12, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Jul. 30, 2021	May 12, 2022	Jul. 29, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY572801 06	500MHz~26.5G Hz	Oct. 12, 2021	May 12, 2022	Oct. 11, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	May 12, 2022	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	May 12, 2022	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	May 12, 2022	NCR	Radiation (03CH04-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;M ax 30dBm	Oct. 16, 2021	May 12, 2022	Oct. 15, 2022	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY602421 26	10Hz~44GHz	Oct. 26, 2021	May 12, 2022	Oct. 25, 2022	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	May 12, 2022	Oct. 29, 2022	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	May 27, 2021	May 12, 2022	May 26, 2022	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240138	1GHz~18GHz	Jul. 19, 2021	May 12, 2022	Jul. 18, 2022	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 05, 2022	May 12, 2022	Jan. 04, 2023	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 30, 2021	May 12, 2022	Jul. 29, 2022	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 05, 2022	May 12, 2022	Jan. 04, 2023	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Jul. 30, 2021	May 12, 2022	Jul. 29, 2022	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY532703 19	500MHz~26.5G Hz	Oct. 14, 2021	May 12, 2022	Oct. 13, 2022	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	May 12, 2022	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	May 12, 2022	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	May 12, 2022	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 20, 2022	May 05, 2022	Apr. 19, 2023	Conduction (CO01-KS)



AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 14, 2021	May 05, 2022	Oct. 13, 2022	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 14, 2021	May 05, 2022	Oct. 13, 2022	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 14, 2021	May 05, 2022	Oct. 13, 2022	Conduction (CO01-KS)

NCR: No Calibration Required



5 Uncertainty of Evaluation

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	1.34 dB
Conducted Emissions	1.34 dB
Occupied Channel Bandwidth	0.012 MHz
Conducted Power Spectral Density	1.32 dB

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.94dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz) <03CH04-KS>

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 40000 MHz) <03CH04-KS>

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz) <03CH06-KS>

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 40000 MHz) <03CH06-KS>

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
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----- THE END -----



Appendix A. Conducted Test Results

Test Engineer:	Zhang Jiang	Temperature:	21~25	°C
Test Date:	2022/4/28~2022/5/12	Relative Humidity:	51~54	%

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	5955	Full	0.21	0.21	12.31	10.80	14.63	-8.50		6.13	24.00	Pass
HE20	MCS0	2	5955	26/0	0.21	0.21	3.77	2.24	6.08	-8.50		-2.42	24.00	Pass
HE20	MCS0	2	5955	52/37	0.21	0.21	6.71	5.07	8.98	-8.50		0.48	24.00	Pass
HE20	MCS0	2	5955	106/53	0.21	0.21	10.09	8.54	12.40	-8.50		3.90	24.00	Pass
HE20	MCS0	2	6175	Full	0.21	0.21	12.27	10.61	14.53	-8.50		6.03	24.00	Pass
HE20	MCS0	2	6175	26/4	0.21	0.21	4.74	3.05	6.99	-8.50		-1.51	24.00	Pass
HE20	MCS0	2	6175	52/39	0.21	0.21	6.72	5.17	9.03	-8.50		0.53	24.00	Pass
HE20	MCS0	2	6175	106/53	0.21	0.21	9.96	8.45	12.28	-8.50		3.78	24.00	Pass
HE20	MCS0	2	6415	Full	0.21	0.21	14.06	13.56	16.83	-8.50		8.33	24.00	Pass
HE20	MCS0	2	6415	26/8	0.21	0.21	5.75	4.50	8.18	-8.50		-0.32	24.00	Pass
HE20	MCS0	2	6415	52/40	0.21	0.21	8.66	7.36	11.07	-8.50		2.57	24.00	Pass
HE20	MCS0	2	6415	106/54	0.21	0.21	11.63	10.50	14.11	-8.50		5.61	24.00	Pass
HE40	MCS0	2	5965	Full	0.32	0.39	12.77	11.38	15.14	-8.50		6.64	24.00	Pass
HE40	MCS0	2	5965	242/61	0.32	0.39	10.90	9.52	13.27	-8.50		4.77	24.00	Pass
HE40	MCS0	2	6165	Full	0.32	0.39	12.75	11.29	15.09	-8.50		6.59	24.00	Pass
HE40	MCS0	2	6165	242/61	0.32	0.39	10.92	9.43	13.25	-8.50		4.75	24.00	Pass
HE40	MCS0	2	6405	Full	0.32	0.39	14.31	13.97	17.15	-8.50		8.65	24.00	Pass
HE40	MCS0	2	6405	242/62	0.32	0.39	12.83	11.86	15.38	-8.50		6.88	24.00	Pass
HE80	MCS0	2	5985	Full	0.56	0.58	12.92	11.36	15.22	-8.50		6.72	24.00	Pass
HE80	MCS0	2	5985	484/65	0.56	0.58	9.78	8.26	12.10	-8.50		3.60	24.00	Pass
HE80	MCS0	2	6145	Full	0.56	0.58	12.83	11.13	15.07	-8.50		6.57	24.00	Pass
HE80	MCS0	2	6145	484/65	0.56	0.58	9.44	7.73	11.68	-8.50		3.18	24.00	Pass
HE80	MCS0	2	6385	Full	0.56	0.58	15.14	14.69	17.93	-8.50		9.43	24.00	Pass
HE80	MCS0	2	6385	484/66	0.56	0.58	12.24	11.14	14.74	-8.50		6.24	24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-6 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	097	6435	Full	0.21	0.21	14.28	13.95	17.13	-8.50		8.63	24.00	Pass
HE20	MCS0	2	097	6435	26/0	0.21	0.21	5.66	4.70	8.22	-8.50		-0.28	24.00	Pass
HE20	MCS0	2	097	6435	52/37	0.21	0.21	8.62	7.56	11.13	-8.50		2.63	24.00	Pass
HE20	MCS0	2	097	6435	106/53	0.21	0.21	11.63	10.51	14.12	-8.50		5.62	24.00	Pass
HE20	MCS0	2	105	6475	Full	0.21	0.21	14.45	13.95	17.22	-8.50		8.72	24.00	Pass
HE20	MCS0	2	105	6475	26/4	0.21	0.21	7.04	5.62	9.40	-8.50		0.90	24.00	Pass
HE20	MCS0	2	105	6475	52/39	0.21	0.21	9.22	7.80	11.58	-8.50		3.08	24.00	Pass
HE20	MCS0	2	105	6475	106/54	0.21	0.21	12.34	11.06	14.76	-8.50		6.26	24.00	Pass
HE20	MCS0	2	113	6515	Full	0.21	0.21	14.84	13.85	17.39	-8.50		8.89	24.00	Pass
HE20	MCS0	2	113	6515	26/8	0.21	0.21	6.21	4.75	8.55	-8.50		0.05	24.00	Pass
HE20	MCS0	2	113	6515	52/40	0.21	0.21	9.41	8.02	11.78	-8.50		3.28	24.00	Pass
HE20	MCS0	2	113	6515	106/54	0.21	0.21	12.58	11.29	14.99	-8.50		6.49	24.00	Pass
HE40	MCS0	2	099	6445	Full	0.32	0.39	14.16	13.94	17.06	-8.50		8.56	24.00	Pass
HE40	MCS0	2	099	6445	242/61	0.32	0.39	13.33	12.37	15.89	-8.50		7.39	24.00	Pass
HE40	MCS0	2	107	6485	Full	0.32	0.39	14.39	13.99	17.20	-8.50		8.70	24.00	Pass
HE40	MCS0	2	107	6485	242/62	0.32	0.39	12.60	11.39	15.05	-8.50		6.55	24.00	Pass
HE80	MCS0	2	103	6465	Full	0.56	0.58	14.91	14.54	17.74	-8.50		9.24	24.00	Pass
HE80	MCS0	2	103	6465	484/65	0.56	0.58	12.57	11.48	15.07	-8.50		6.57	24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	6535	Full	0.21	0.21	15.07	14.00	17.58	-8.50		9.08	24.00	Pass
HE20	MCS0	2	6535	26/0	0.21	0.21	6.20	4.89	8.61	-8.50		0.11	24.00	Pass
HE20	MCS0	2	6535	52/37	0.21	0.21	9.36	8.05	11.77	-8.50		3.27	24.00	Pass
HE20	MCS0	2	6535	106/53	0.21	0.21	12.61	11.24	14.99	-8.50		6.49	24.00	Pass
HE20	MCS0	2	6695	Full	0.21	0.21	14.73	13.17	17.03	-8.50		8.53	24.00	Pass
HE20	MCS0	2	6695	26/4	0.21	0.21	7.19	5.14	9.30	-8.50		0.80	24.00	Pass
HE20	MCS0	2	6695	52/38	0.21	0.21	9.22	7.18	11.33	-8.50		2.83	24.00	Pass
HE20	MCS0	2	6695	106/53	0.21	0.21	12.62	10.58	14.73	-8.50		6.23	24.00	Pass
HE20	MCS0	2	6855	Full	0.21	0.21	13.82	14.67	17.28	-8.50		8.78	24.00	Pass
HE20	MCS0	2	6855	26/8	0.21	0.21	4.95	5.62	8.31	-8.50		-0.19	24.00	Pass
HE20	MCS0	2	6855	52/40	0.21	0.21	8.09	8.83	11.49	-8.50		2.99	24.00	Pass
HE20	MCS0	2	6855	106/54	0.21	0.21	11.17	11.93	14.58	-8.50		6.08	24.00	Pass
HE40	MCS0	2	6565	Full	0.32	0.39	14.98	13.98	17.52	-8.50		9.02	24.00	Pass
HE40	MCS0	2	6565	242/61	0.32	0.39	13.32	11.91	15.68	-8.50		7.18	24.00	Pass
HE40	MCS0	2	6685	Full	0.32	0.39	14.76	13.13	17.03	-8.50		8.53	24.00	Pass
HE40	MCS0	2	6685	242/61	0.32	0.39	13.17	11.25	15.32	-8.50		6.82	24.00	Pass
HE40	MCS0	2	6845	Full	0.32	0.39	13.88	14.77	17.36	-8.50		8.86	24.00	Pass
HE40	MCS0	2	6845	242/62	0.32	0.39	11.54	12.24	14.91	-8.50		6.41	24.00	Pass
HE80	MCS0	2	6625	Full	0.56	0.58	15.63	14.72	18.21	-8.50		9.71	24.00	Pass
HE80	MCS0	2	6625	484/65	0.56	0.58	12.79	11.26	15.10	-8.50		6.60	24.00	Pass
HE80	MCS0	2	6705	Full	0.56	0.58	15.18	13.63	17.48	-8.50		8.98	24.00	Pass
HE80	MCS0	2	6705	484/65	0.56	0.58	12.54	10.42	14.62	-8.50		6.12	24.00	Pass
HE80	MCS0	2	6785	Full	0.56	0.58	12.98	13.04	16.02	-8.50		7.52	24.00	Pass
HE80	MCS0	2	6785	484/66	0.56	0.58	10.14	10.45	13.31	-8.50		4.81	24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-8 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	6895	Full	0.21	0.21	13.40	14.87	17.21	-8.50		8.71	24.00	Pass
HE20	MCS0	2	6895	26/0	0.21	0.21	4.82	5.60	8.24	-8.50		-0.26	24.00	Pass
HE20	MCS0	2	6895	52/37	0.21	0.21	7.78	8.86	11.37	-8.50		2.87	24.00	Pass
HE20	MCS0	2	6895	106/53	0.21	0.21	10.61	11.49	14.08	-8.50		5.58	24.00	Pass
HE20	MCS0	2	6995	Full	0.21	0.21	12.64	12.69	15.68	-8.50		7.18	24.00	Pass
HE20	MCS0	2	6995	26/4	0.21	0.21	5.25	4.73	8.01	-8.50		-0.49	24.00	Pass
HE20	MCS0	2	6995	52/38	0.21	0.21	7.36	6.84	10.12	-8.50		1.62	24.00	Pass
HE20	MCS0	2	6995	106/53	0.21	0.21	10.52	10.15	13.35	-8.50		4.85	24.00	Pass
HE20	MCS0	2	7095	Full	0.21	0.21	11.92	12.10	15.02	-8.50		6.52	24.00	Pass
HE20	MCS0	2	7095	26/8	0.21	0.21	3.01	3.09	6.06	-8.50		-2.44	24.00	Pass
HE20	MCS0	2	7095	52/40	0.21	0.21	6.17	6.27	9.23	-8.50		0.73	24.00	Pass
HE20	MCS0	2	7095	106/54	0.21	0.21	9.81	9.91	12.87	-8.50		4.37	24.00	Pass
HE40	MCS0	2	6925	Full	0.32	0.39	12.31	13.38	15.89	-8.50		7.39	24.00	Pass
HE40	MCS0	2	6925	242/61	0.32	0.39	10.36	11.29	13.86	-8.50		5.36	24.00	Pass
HE40	MCS0	2	6965	Full	0.32	0.39	12.27	13.40	15.88	-8.50		7.38	24.00	Pass
HE40	MCS0	2	6965	242/62	0.32	0.39	10.46	11.26	13.89	-8.50		5.39	24.00	Pass
HE40	MCS0	2	7085	Full	0.32	0.39	11.83	11.78	14.81	-8.50		6.31	24.00	Pass
HE40	MCS0	2	7085	242/62	0.32	0.39	9.58	9.62	12.61	-8.50		4.11	24.00	Pass
HE80	MCS0	2	6945	Full	0.56	0.58	13.28	14.41	16.89	-8.50		8.39	24.00	Pass
HE80	MCS0	2	6945	484/65	0.56	0.58	9.06	10.02	12.58	-8.50		4.08	24.00	Pass
HE80	MCS0	2	7025	Full	0.56	0.58	11.58	12.67	15.17	-8.50		6.67	24.00	Pass
HE80	MCS0	2	7025	484/66	0.56	0.58	9.88	9.47	12.69	-8.50		4.19	24.00	Pass



26dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AX20MIMO	Ant1	5955	21.36	5944.26	5965.62	---	---
	Ant2	5955	21.42	5944.38	5965.80	---	---
	Ant1	6175	21.78	6163.90	6185.68	---	---
	Ant2	6175	21.24	6164.50	6185.74	---	---
	Ant1	6415	21.54	6404.26	6425.80	---	---
	Ant2	6415	21.54	6404.02	6425.56	---	---
	Ant1	6435	21.84	6423.96	6445.80	---	---
	Ant2	6435	21.06	6424.44	6445.50	---	---
	Ant1	6475	20.94	6464.62	6485.56	---	---
	Ant2	6475	21.54	6464.38	6485.92	---	---
	Ant1	6515	21.48	6504.26	6525.74	---	---
	Ant2	6515	21.24	6504.38	6525.62	---	---
	Ant1	6535	21.42	6524.26	6545.68	---	---
	Ant2	6535	21.42	6524.26	6545.68	---	---
	Ant1	6695	21.48	6684.26	6705.74	---	---
	Ant2	6695	21.66	6683.96	6705.62	---	---
	Ant1	6855	25.92	6842.22	6868.14	---	---
	Ant2	6855	28.86	6840.36	6869.22	---	---
	Ant1	6895	26.52	6881.74	6908.26	---	---
	Ant2	6895	36.36	6876.76	6913.12	---	---
	Ant1	6995	29.34	6980.48	7009.82	---	---
	Ant2	6995	24.00	6982.16	7006.16	---	---
	Ant1	7095	34.14	7077.96	7112.10	---	---
	Ant2	7095	33.36	7078.08	7111.44	---	---



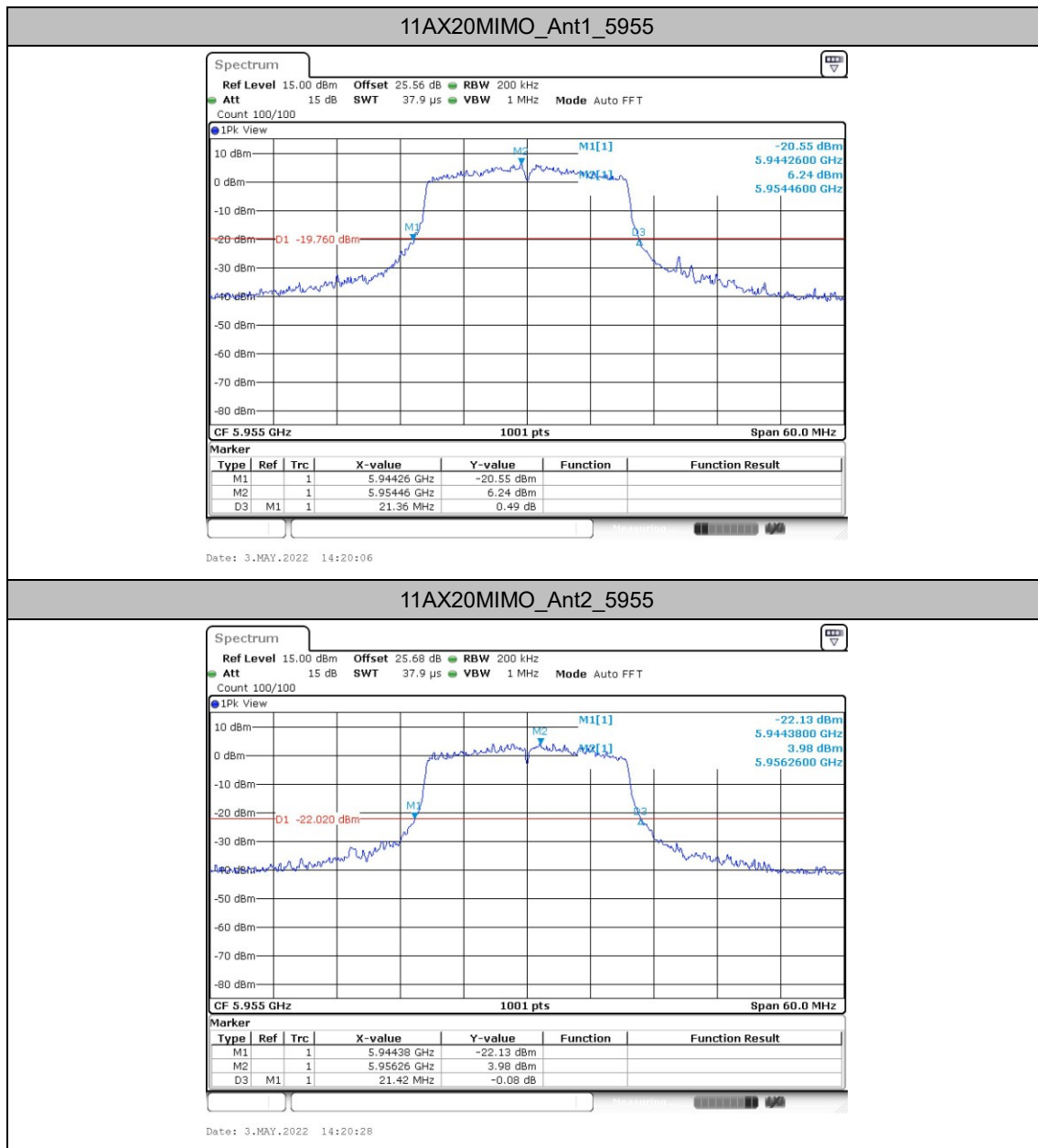
11AX40MIMO	Ant1	5965	39.96	5944.96	5984.92	---	---
	Ant2	5965	39.60	5945.20	5984.80	---	---
	Ant1	6165	39.84	6145.08	6184.92	---	---
	Ant2	6165	39.96	6144.96	6184.92	---	---
	Ant1	6405	39.96	6385.08	6425.04	---	---
	Ant2	6405	39.84	6385.08	6424.92	---	---
	Ant1	6445	39.96	6425.08	6465.04	---	---
	Ant2	6445	39.84	6425.08	6464.92	---	---
	Ant1	6485	39.60	6465.08	6504.68	---	---
	Ant2	6485	39.60	6465.20	6504.80	---	---
	Ant1	6565	39.72	6545.08	6584.80	---	---
	Ant2	6565	39.60	6545.20	6584.80	---	---
	Ant1	6685	39.72	6665.08	6704.80	---	---
	Ant2	6685	39.72	6665.08	6704.80	---	---
	Ant1	6845	44.40	6825.08	6869.48	---	---
	Ant2	6845	60.84	6812.60	6873.44	---	---
	Ant1	6925	46.08	6903.64	6949.72	---	---
	Ant2	6925	56.52	6896.80	6953.32	---	---
	Ant1	6965	54.36	6937.40	6991.76	---	---
	Ant2	6965	60.00	6935.72	6995.72	---	---
	Ant1	7085	71.28	7046.24	7117.52	---	---
	Ant2	7085	56.40	7057.16	7113.56	---	---



11AX80MIMO	Ant1	5985	81.12	5944.44	6025.56	---	---
	Ant2	5985	80.88	5944.44	6025.32	---	---
	Ant1	6145	81.12	6104.44	6185.56	---	---
	Ant2	6145	81.12	6104.44	6185.56	---	---
	Ant1	6385	80.88	6344.44	6425.32	---	---
	Ant2	6385	80.88	6344.44	6425.32	---	---
	Ant1	6465	85.68	6419.88	6505.56	---	---
	Ant2	6465	80.64	6424.68	6505.32	---	---
	Ant1	6625	107.76	6566.44	6674.20	---	---
	Ant2	6625	99.12	6567.16	6666.28	---	---
	Ant1	6705	99.12	6651.96	6751.08	---	---
	Ant2	6705	98.40	6647.16	6745.56	---	---
	Ant1	6785	81.36	6744.44	6825.80	---	---
	Ant2	6785	103.20	6727.16	6830.36	---	---
	Ant1	6945	80.88	6904.44	6985.32	---	---
	Ant2	6945	104.88	6889.80	6994.68	---	---
	Ant1	7025	98.88	6966.44	7065.32	---	---
	Ant2	7025	80.88	6984.44	7065.32	---	---

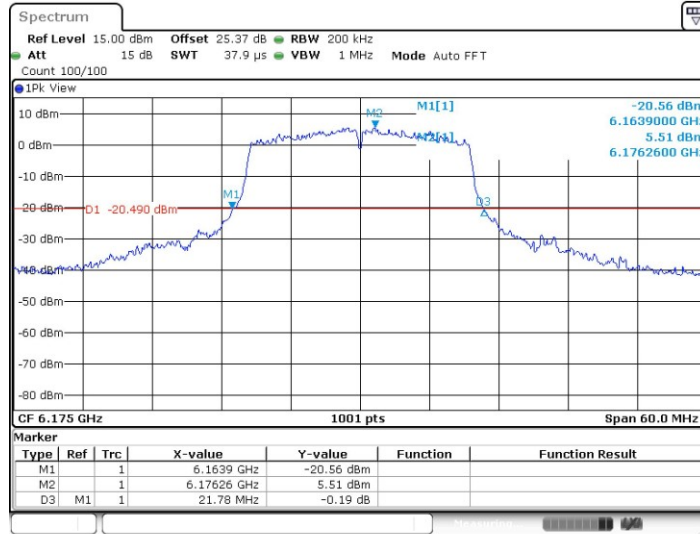


Test Graphs

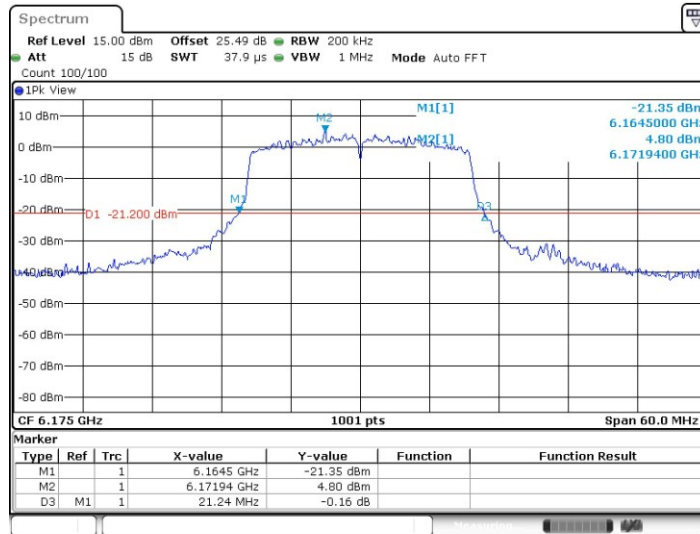




11AX20MIMO_Ant1_6175

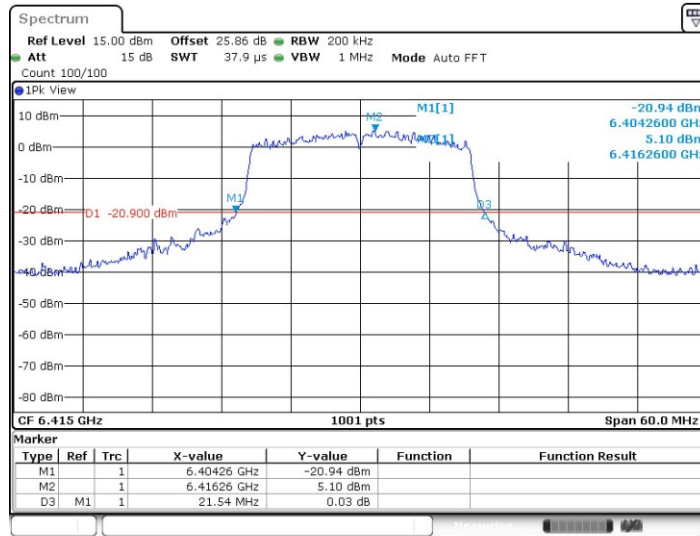


11AX20MIMO_Ant2_6175



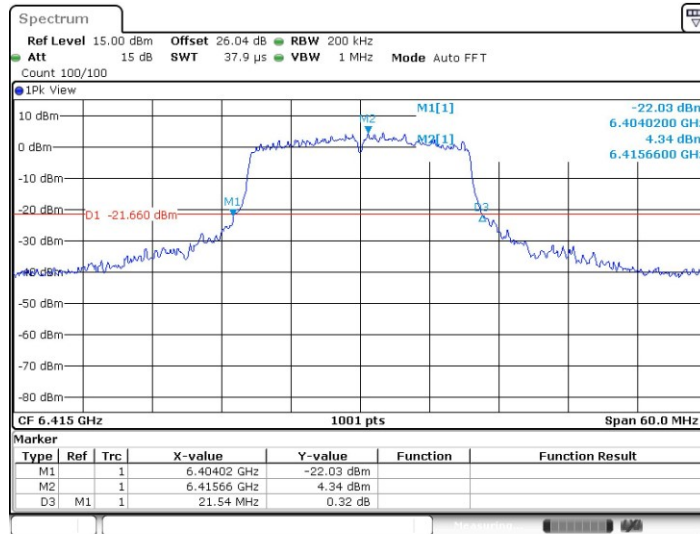


11AX20MIMO_Ant1_6415



Date: 3.MAY.2022 14:23:12

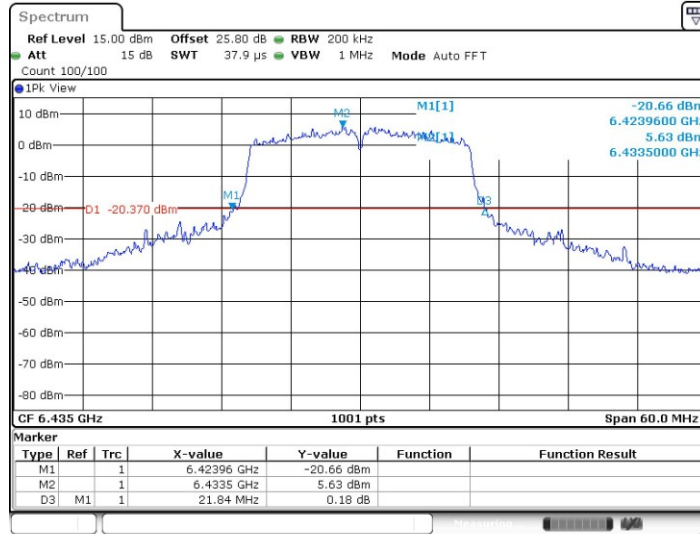
11AX20MIMO_Ant2_6415



Date: 3.MAY.2022 14:23:35

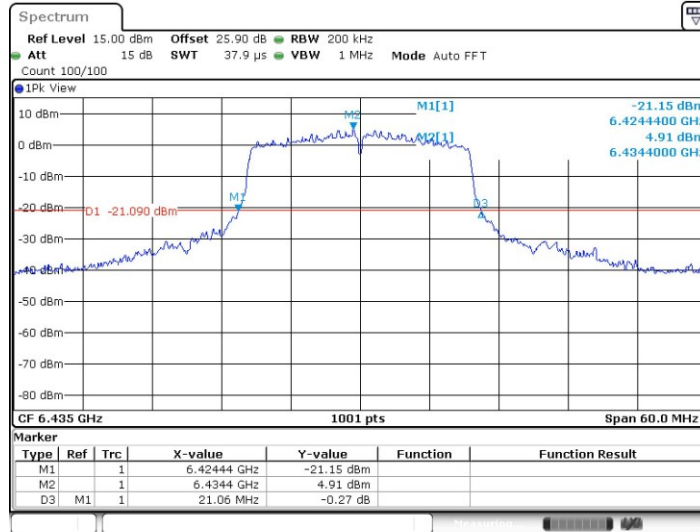


11AX20MIMO_Ant1_6435



Date: 3.MAY.2022 14:24:14

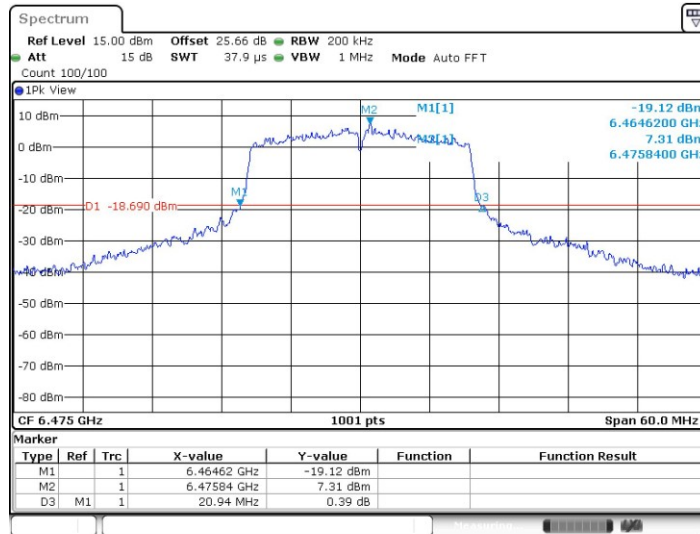
11AX20MIMO_Ant2_6435



Date: 3.MAY.2022 14:24:35

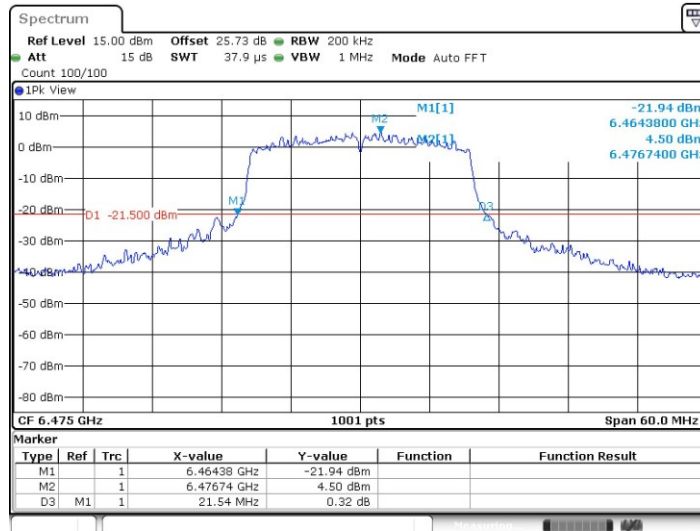


11AX20MIMO_Ant1_6475



Date: 3.MAY.2022 14:25:13

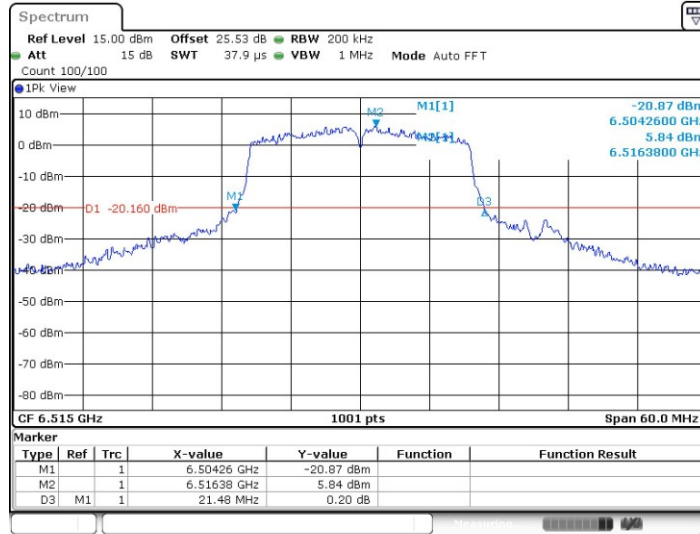
11AX20MIMO_Ant2_6475



Date: 3.MAY.2022 14:25:36

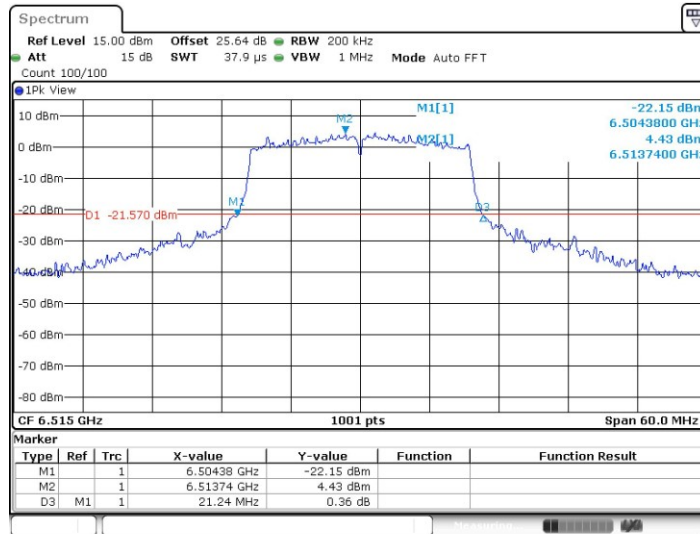


11AX20MIMO_Ant1_6515

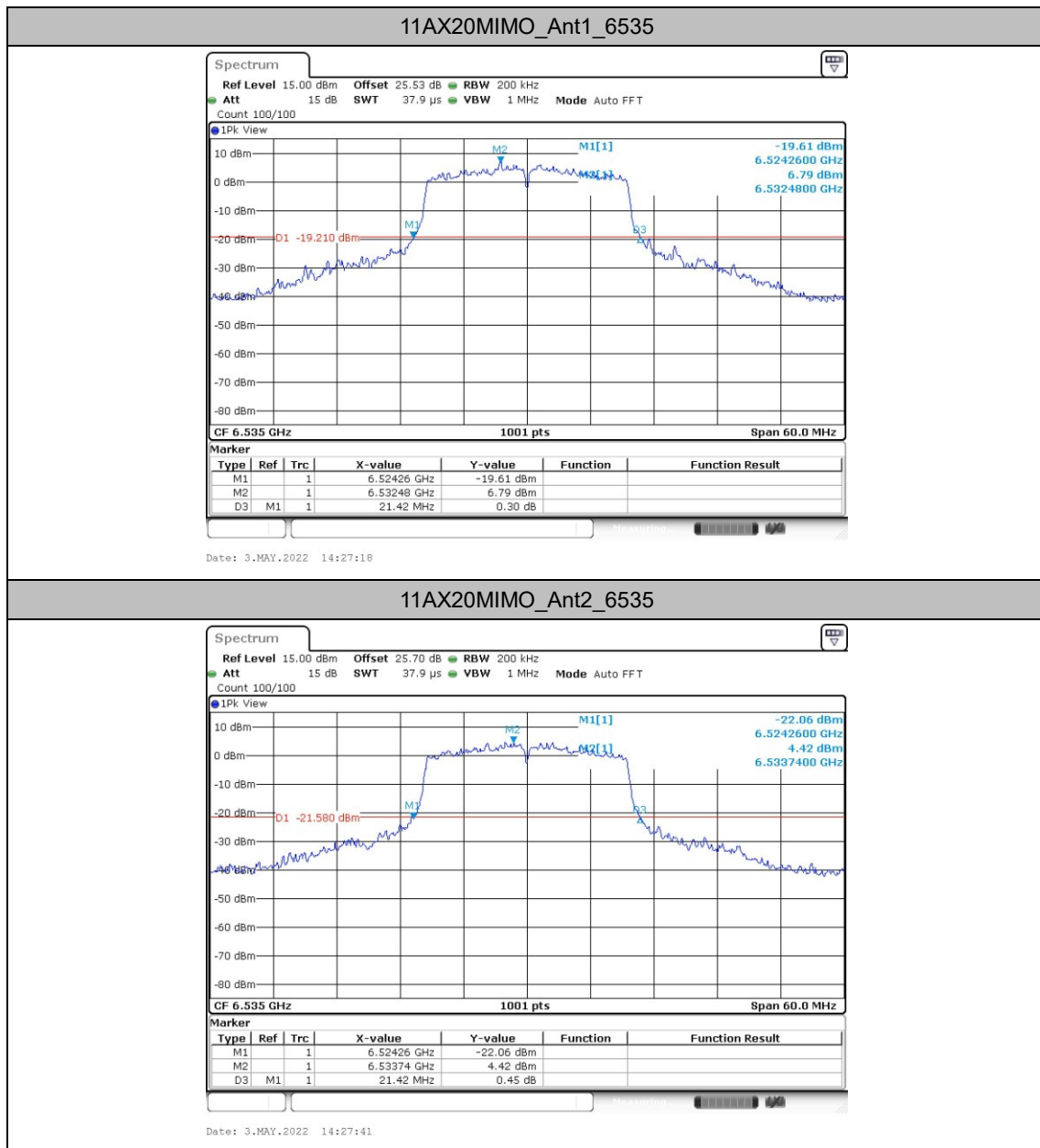


Date: 3.MAY.2022 14:26:10

11AX20MIMO_Ant2_6515

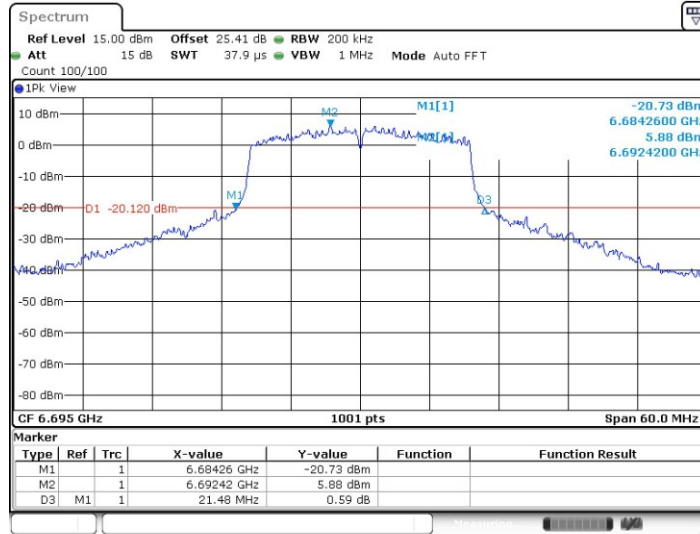


Date: 3.MAY.2022 14:26:31

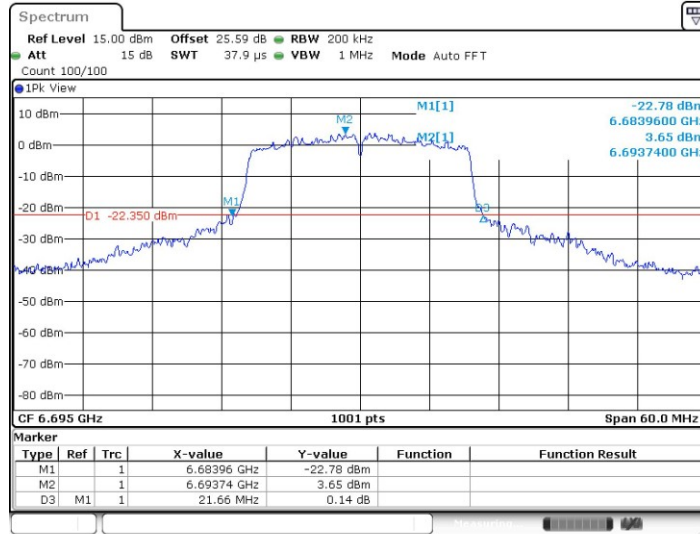




11AX20MIMO_Ant1_6695

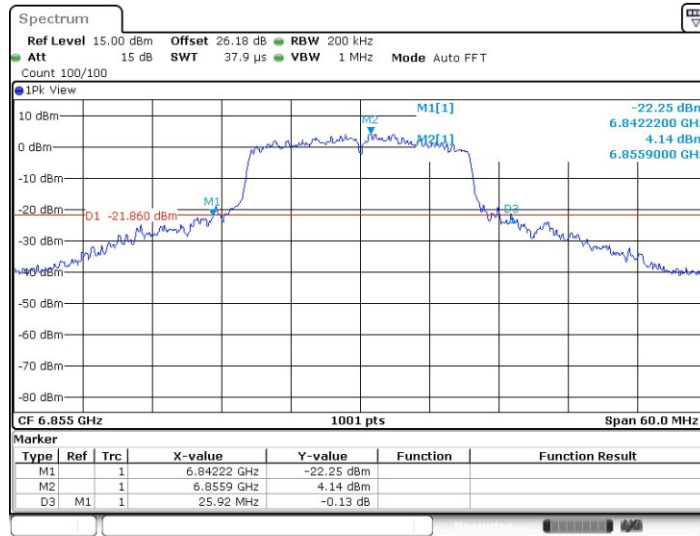


11AX20MIMO_Ant2_6695



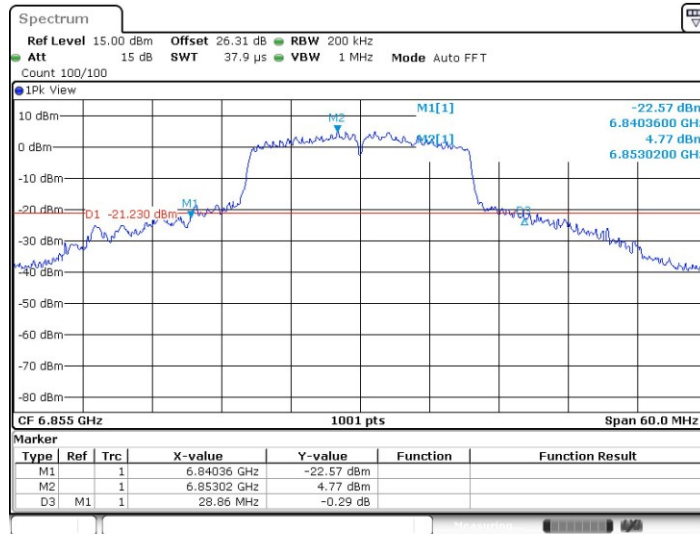


11AX20MIMO_Ant1_6855



Date: 3.MAY.2022 14:30:34

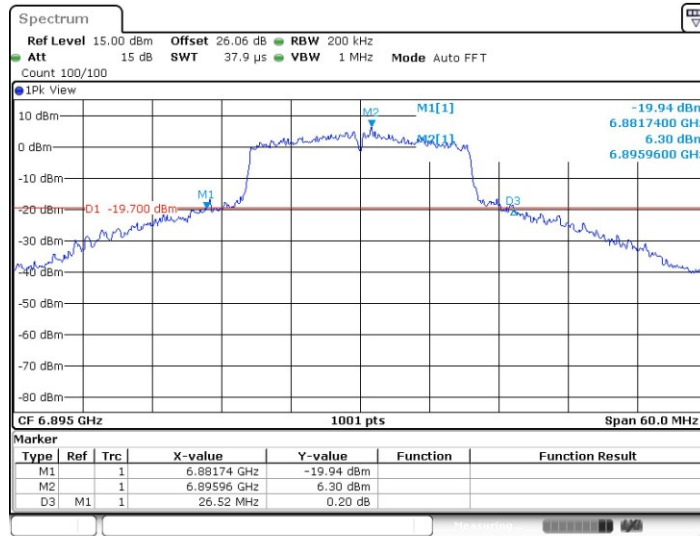
11AX20MIMO_Ant2_6855



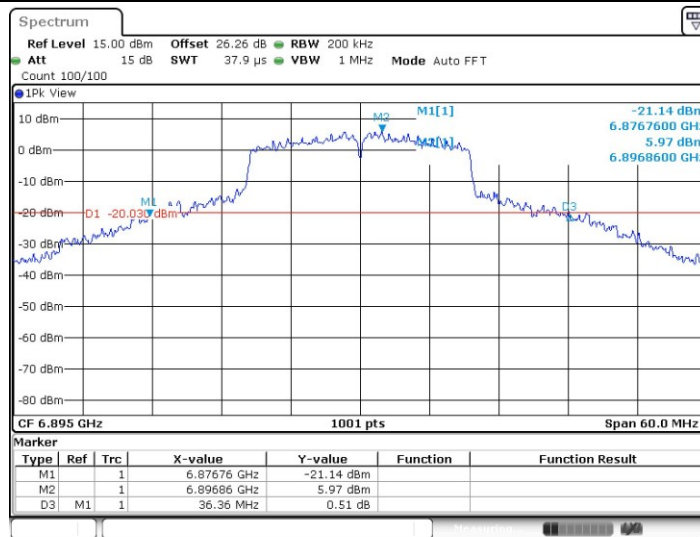
Date: 3.MAY.2022 14:30:54



11AX20MIMO_Ant1_6895

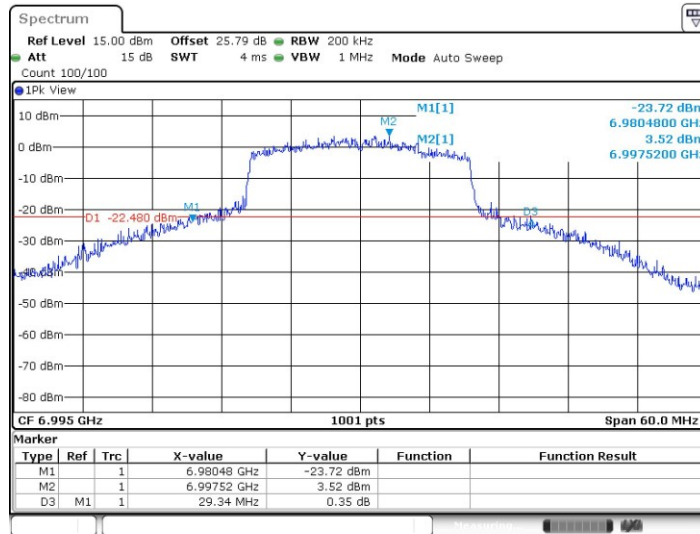


11AX20MIMO_Ant2_6895



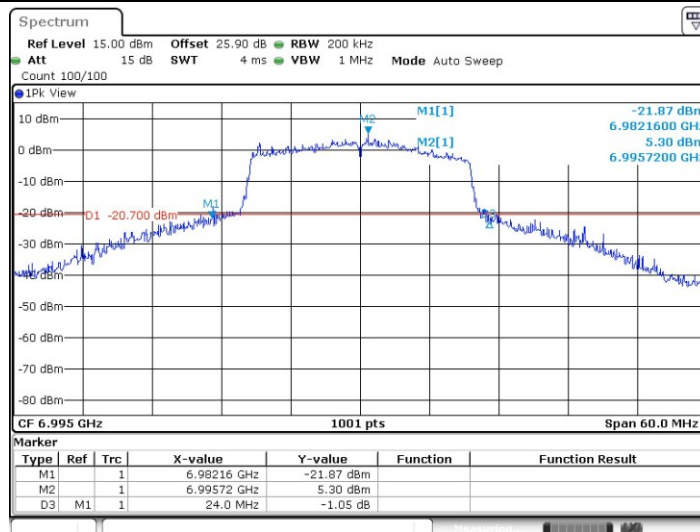


11AX20MIMO_Ant1_6995



Date: 13.MAY.2022 17:57:27

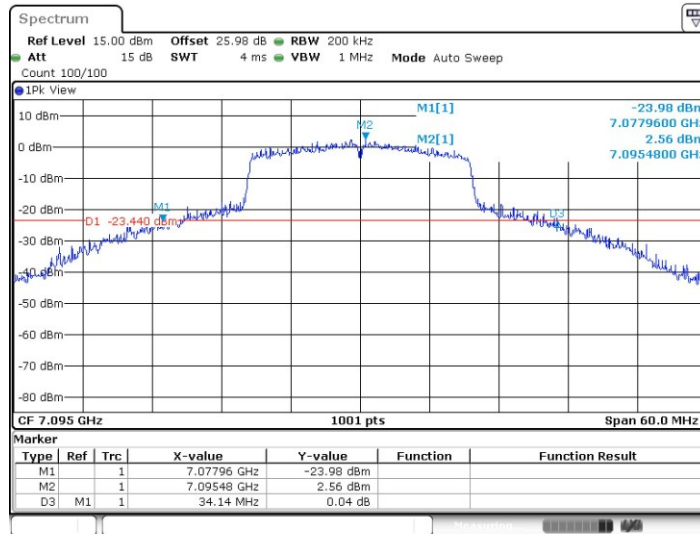
11AX20MIMO_Ant2_6995



Date: 3.MAY.2022 14:34:18

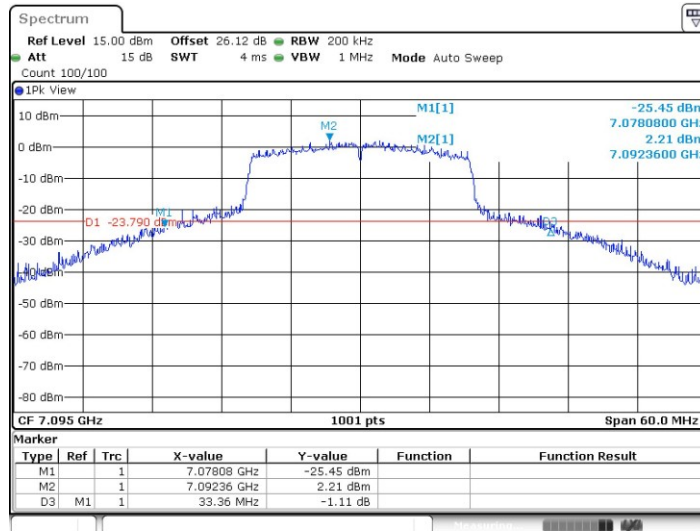


11AX20MIMO_Ant1_7095

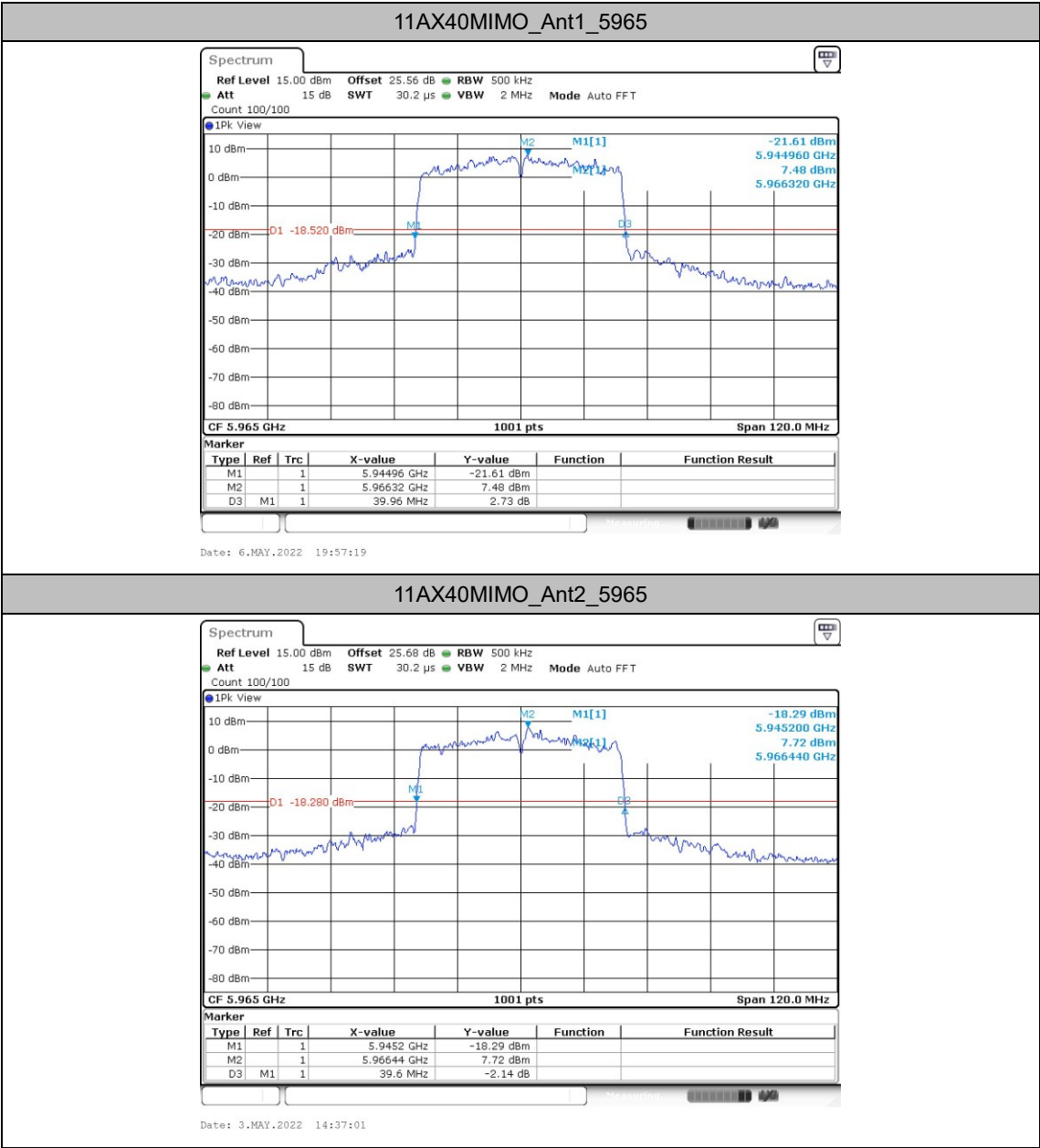


Date: 7.MAY.2022 14:13:23

11AX20MIMO_Ant2_7095

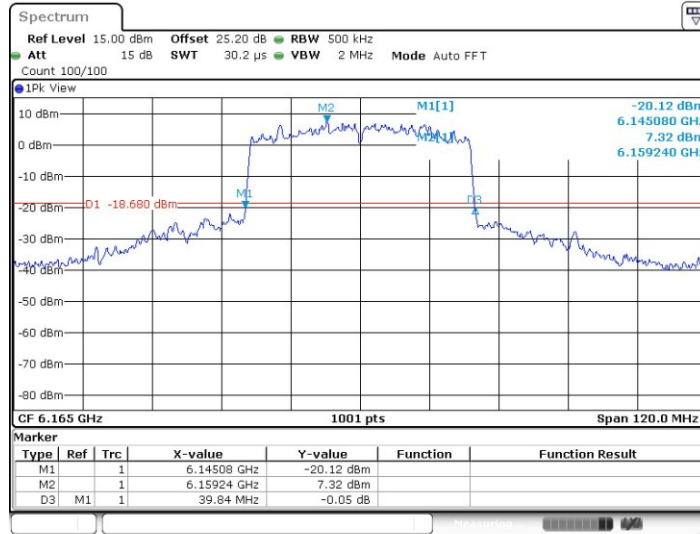


Date: 7.MAY.2022 14:14:05



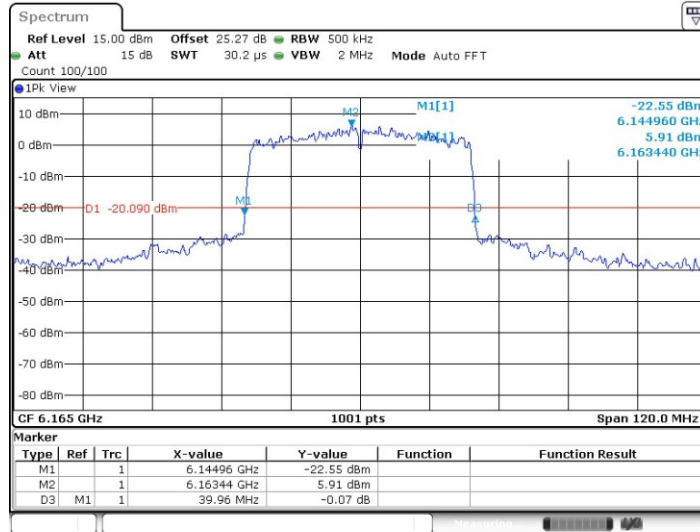


11AX40MIMO_Ant1_6165



Date: 3.MAY.2022 14:37:38

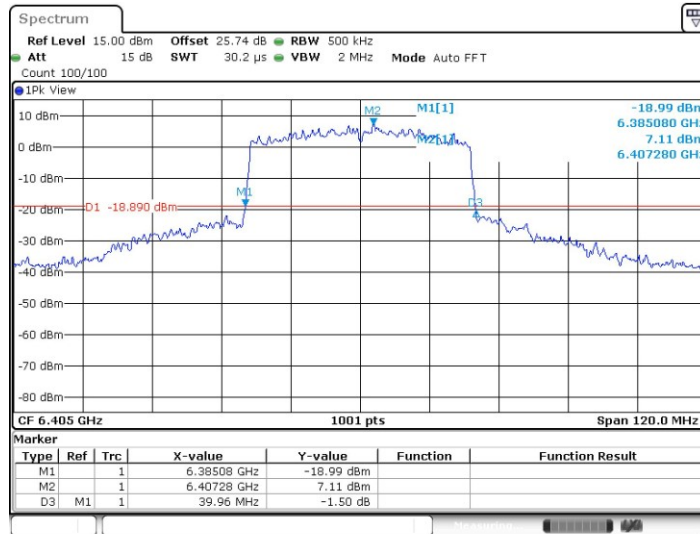
11AX40MIMO_Ant2_6165



Date: 3.MAY.2022 14:38:00

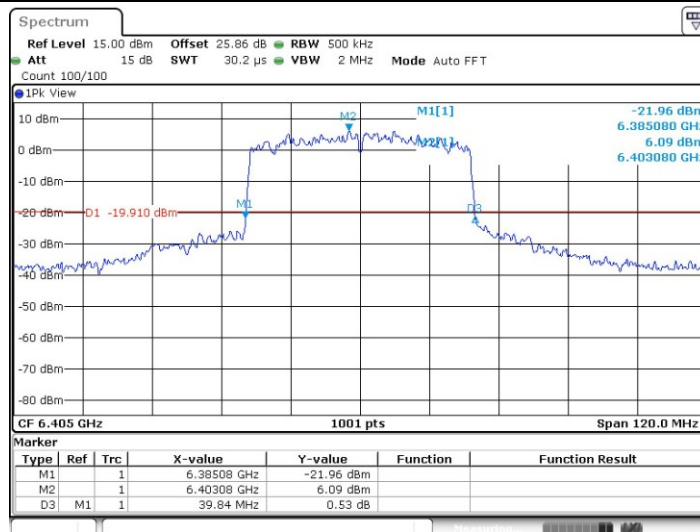


11AX40MIMO_Ant1_6405



Date: 6.MAY.2022 20:06:36

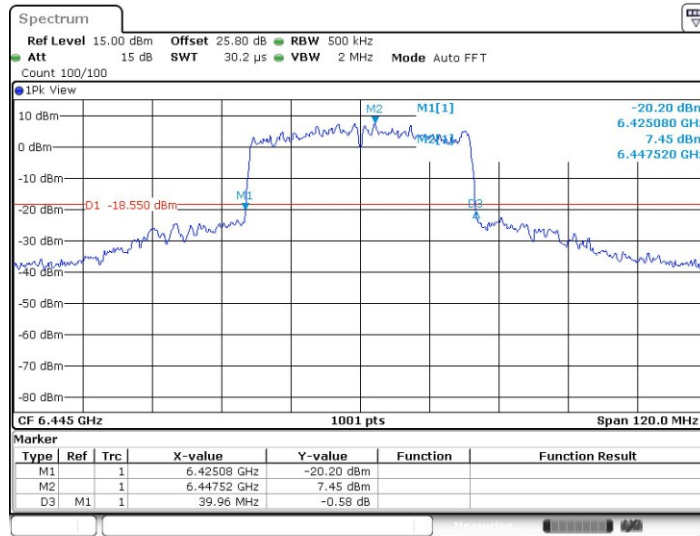
11AX40MIMO_Ant2_6405



Date: 3.MAY.2022 14:38:56

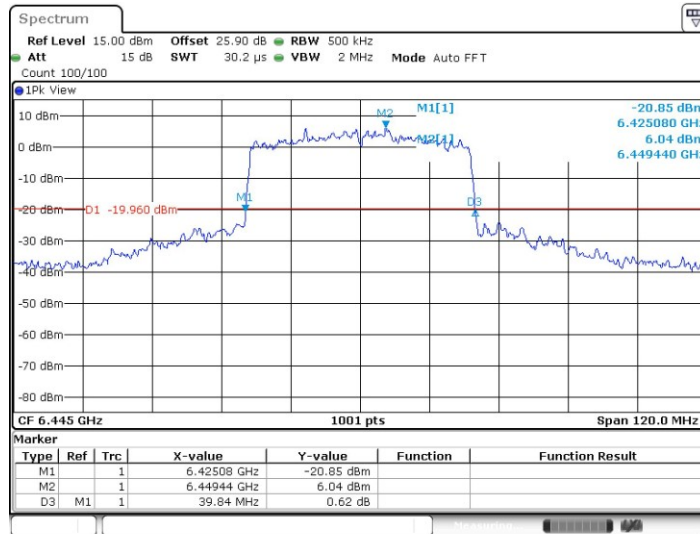


11AX40MIMO_Ant1_6445



Date: 3.MAY.2022 14:40:03

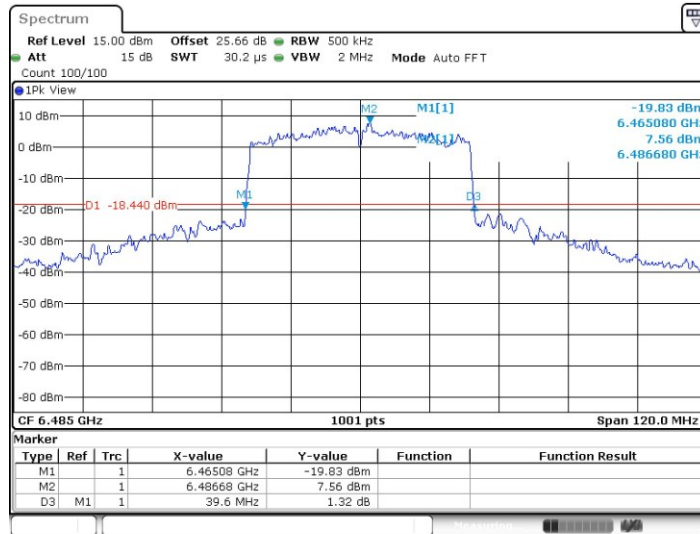
11AX40MIMO_Ant2_6445



Date: 3.MAY.2022 14:40:22

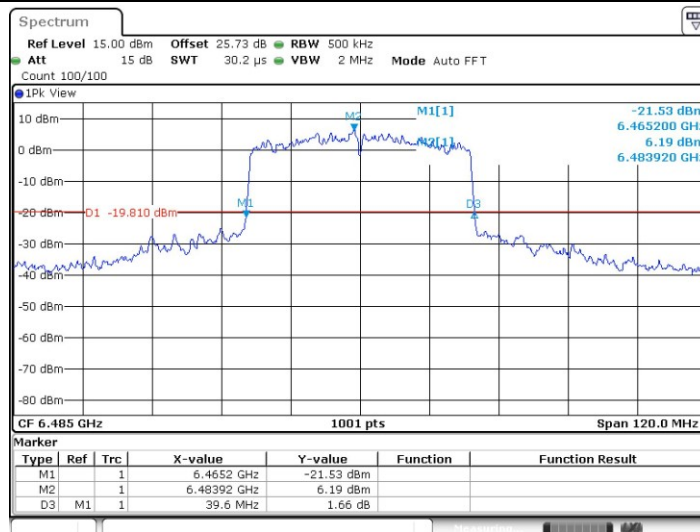


11AX40MIMO_Ant1_6485



Date: 6.MAY.2022 20:07:57

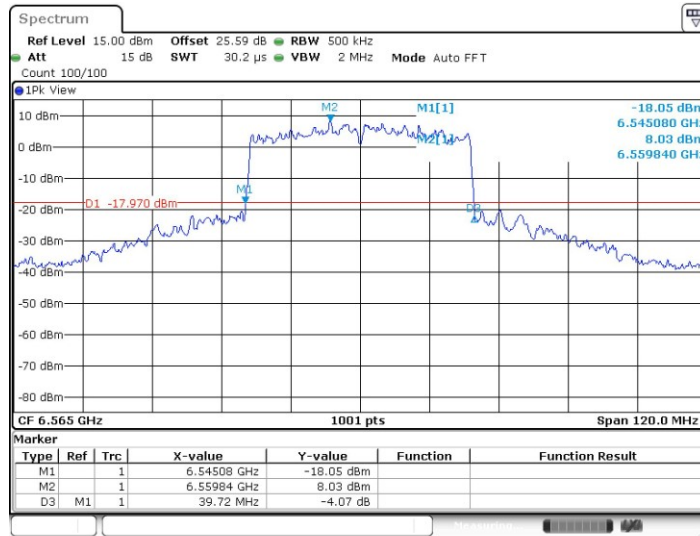
11AX40MIMO_Ant2_6485



Date: 3.MAY.2022 14:41:15

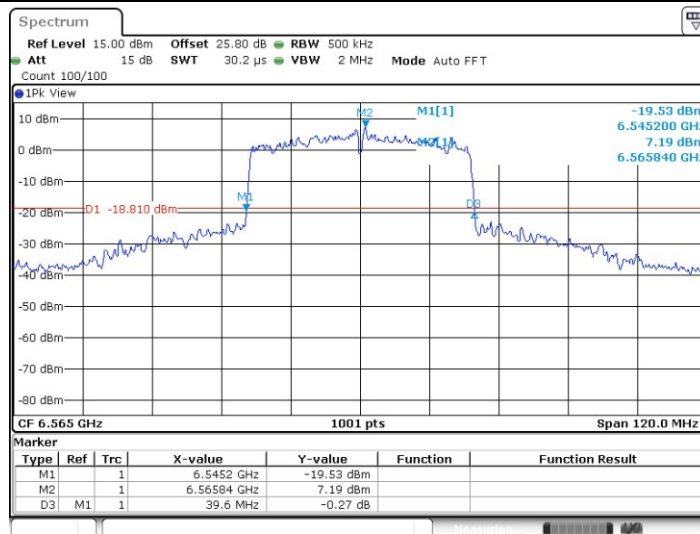


11AX40MIMO_Ant1_6565



Date: 3.MAY.2022 14:41:54

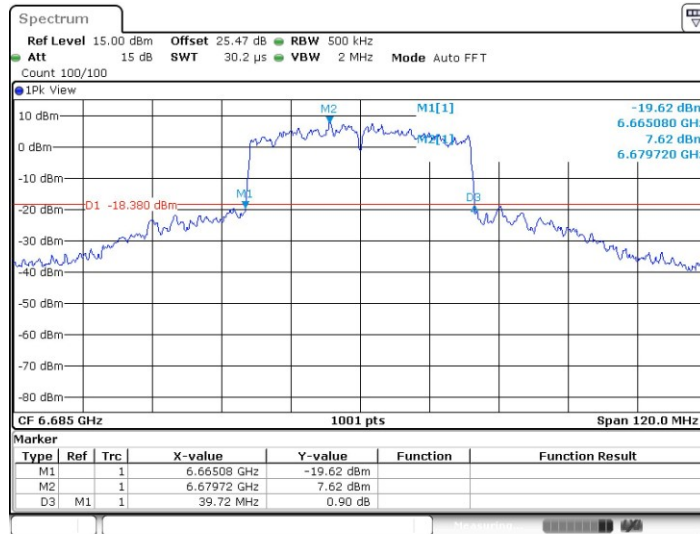
11AX40MIMO_Ant2_6565



Date: 3.MAY.2022 14:42:17

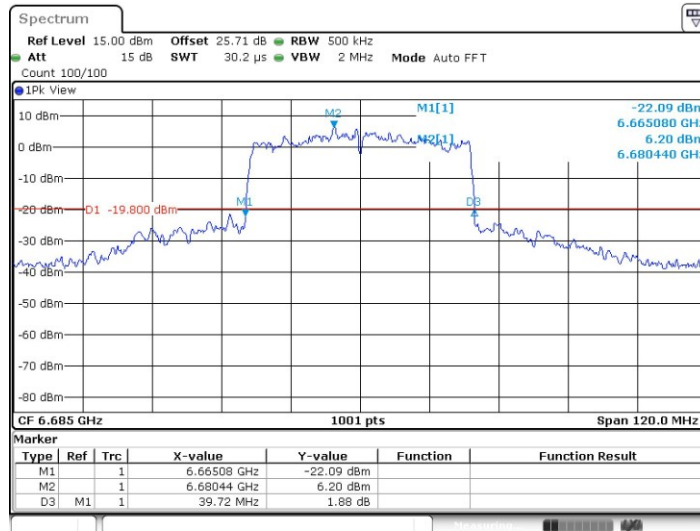


11AX40MIMO_Ant1_6685



Date: 3.MAY.2022 14:43:37

11AX40MIMO_Ant2_6685



Date: 3.MAY.2022 14:43:56

