FCC RF Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2321-3, XT2321-5
FCC ID	:	IHDT56AJ3
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	15E 6 GHz Low Power Indoor Client (6XD)
TEST DATE(S)	:	Dec. 22, 2022 ~ Jan. 17, 2023

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

ACCREDITED Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR2D0913F	01	Initial issue of report	Feb. 01, 2023

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	-
3.5	15.407(d)(6)	Contention Based Protocol	Pass	
3.6	15.407(b)	Unwanted Emissions	Pass	Under limit 3.06 dB at 5925.000 MHz
3.7	15.207	AC Conducted Emission	Pass	Under limit 7.60 dB at 0.180 MHz
3.8	15.203 15.407(a)	Antenna Requirement	Pass	-

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	XT2321-3, XT2321-5
FCC ID	IHDT56AJ3
IMEI Code	Conducted/ CBP: 358041760019911/358041760019929 Conduction: 358041760025975/358041760025983 Radiation: 358041760025512/358041760025520
HW Version	DVT2
SW Version	TTZ 33.50
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The two model names XT2321-3, XT2321-5 are the same product except model name different for market segment.
3. The EUT has two working states, flip open state and flip close state, by verifying these two states, we choose the worst flip open state for all tests.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	U-NII-5: 5925 MHz ~ 6425 MHz U-NII-6: 6425 MHz ~ 6525 MHz U-NII-7: 6525 MHz ~ 6875 MHz U-NII-8: 6875 MHz ~ 7125 MHz
Maximum EIRP	**<MIMO Ant.4+5>** **<5925 MHz ~ 7125 MHz >** 802.11a : 8.27 dBm / 0.0067 W 802.11ax HE20 : 8.27 dBm / 0.0067 W 802.11ax HE40 : 9.92 dBm / 0.0098 W 802.11ax HE80 : 11.17 dBm / 0.0131 W 802.11ax HE160 : 13.12 dBm / 0.0205 W
99% Occupied Bandwidth	**<MIMO Ant.4+5>** 802.11a : 18.981 MHz 802.11ax HE20 : 19.021 MHz 802.11ax HE40 : 38.042 MHz 802.11ax HE80 : 77.842 MHz 802.11ax HE160 : 157.602 MHz
Antenna Type / Gain	**<5925 MHz ~ 6425 MHz >** <Ant. 4> : IFA Antenna with gain -8.8 dBi <Ant. 5> : IFA Antenna with gain -5.0 dBi **<6425 MHz ~ 6525 MHz >** <Ant. 4> : IFA Antenna with gain -8.8 dBi <Ant. 5> : IFA Antenna with gain -5.0 dBi **<6525 MHz ~ 6875 MHz >** <Ant. 4> : IFA Antenna with gain -8.8 dBi <Ant. 5> : IFA Antenna with gain -5.0 dBi **<6875 MHz ~ 7125 MHz >** <Ant. 4> : IFA Antenna with gain -8.8 dBi <Ant. 5> : IFA Antenna with gain -5.0 dBi
Type of Modulation	802.11a : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)

Remark:

1. 802.11ax support 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 in appendix A, the maximum power/PSD of partial RU is smaller than full RU in all configurations, so all the other test case were performed with full RU mode.
2. The EUT does not support channel puncturing mode.
3. The EUT supports MIMO mode only.
4. WIFI MIMO support CDD mode for all operation modes by manufacturer declared.
5. U-NII-5/-6/-7/-8 can't transmit simultaneously.
6. CBP test with antenna path of minimum gain (Antenna 4, Minimum gain= -8.8 dBi).

1.5 Modification of EUT

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

1.6 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 TH01-KS DFS01-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	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-SZ	CN1256	421272

Test data subcontracted: Radiated Spurious Emission test results in section 3.6 of this report.

1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	CO01-KS	AUDIX	E3	6.2009-8-24
2.	03CH04-SZ	AUDIX	E3	6.2009-8-24
3.	DFS01-KS	Sporton	DFS & Adaptivity Test Tools	1.0

1.8 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 v01r01
- 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.

1.9 Specification of Accessory

Specification of Accessory				
AC Adapter	**Brand Name**	Motorola (Salom)	**Model Name**	MC-301
Battery 1	**Brand Name**	Motorola(ATL)	**Model Name**	PM29
Battery 2	**Brand Name**	Motorola(ATL)	**Model Name**	PM08
USB Cable 1	**Brand Name**	Motorola(Cabletech)	**Model Name**	SC18D13216
USB Cable 2	**Brand Name**	Motorola(Luxshare)	**Model Name**	SC18D13217
USB Cable 3	**Brand Name**	Motorola(Saibao)	**Model Name**	SC18D86732

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 (Z 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**	2	1	5	9	13	17	21	25	29
	Freq. (MHz)	5935	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 160M	**Channel**	15								
	Freq. (MHz)	6025								

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 160M	**Channel**	47							
	Freq. (MHz)	6185							

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 160M	**Channel**	79							
	Freq. (MHz)	6345							

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 160M	Channel	111							
	Freq. (MHz)	6505							

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 160M	Channel	143							
	Freq. (MHz)	6665							

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 160M	Channel	175							
	Freq. (MHz)	6825							

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 160M	Channel	207							
	Freq. (MHz)	6985							

BW 20M	Channel	225	229	233
	Freq. (MHz)	7075	7095	7115
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
802.11a	6 Mbps
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : BT Link + WLAN Link(6E) + USB Cable 3(Charging From Adapter)
Remark: For Radiated Test Cases, the tests were performed with Adapter and USB Cable 1.	

Co-location
LTE B48 Link + WLAN 6G 802.11ax HE20 CH02 TX + Bluetooth LE (2Mbps) CH39 TX(Ant5)
LTE B48 Link + WLAN 6G 802.11ax HE20 CH02 TX + Bluetooth LE (2Mbps) CH39 TX(Ant4)
LTE B48 Link + WLAN 6G 802.11ax HE20 CH02 TX + WLAN 2.4G 802.11g CH11 TX

Ch. #		5925-6425 MHz UNII-5	6425-6525 MHz UNII-6	6525-6875 MHz UNII-7	6875-7125 MHz UNII-8
		802.11a/ax HE20	802.11a/ax HE20	802.11a/ax HE20	802.11a/ax HE20
L	Low	001/002	097	117	189
M	Middle	045	105	149	209
H	High	093	113	181	229/233
Straddle		-	-	-	185

Ch. #		5925-6425 MHz UNII-5	6425-6525 MHz UNII-6	6525-6875 MHz UNII-7	6875-7125 MHz 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
Straddle		-	115	-	187

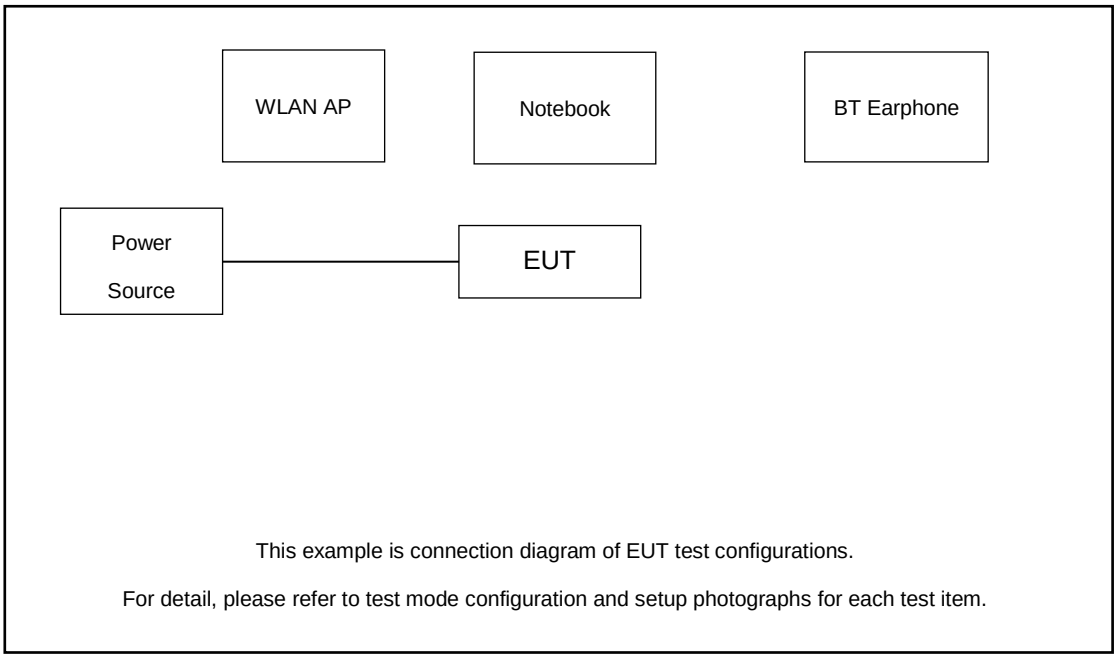
Ch. #		5925-6425 MHz UNII-5	6425-6525 MHz UNII-6	6525-6875 MHz UNII-7	6875-7125 MHz UNII-8
		802.11ax HE80	802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	007	103	135	199
M	Middle	039		151	-
H	High	087		167	215
Straddle		-	119	183	-

Ch. #		5925-6425 MHz UNII-5	6425-6525 MHz UNII-6	6525-6875 MHz UNII-7	6875-7125 MHz UNII-8
		802.11ax HE160	802.11ax HE160	802.11ax HE160	802.11ax HE160
L	Low	015	-	143	207
M	Middle	047			
H	High	079			
Straddle		-	111	175	-

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System

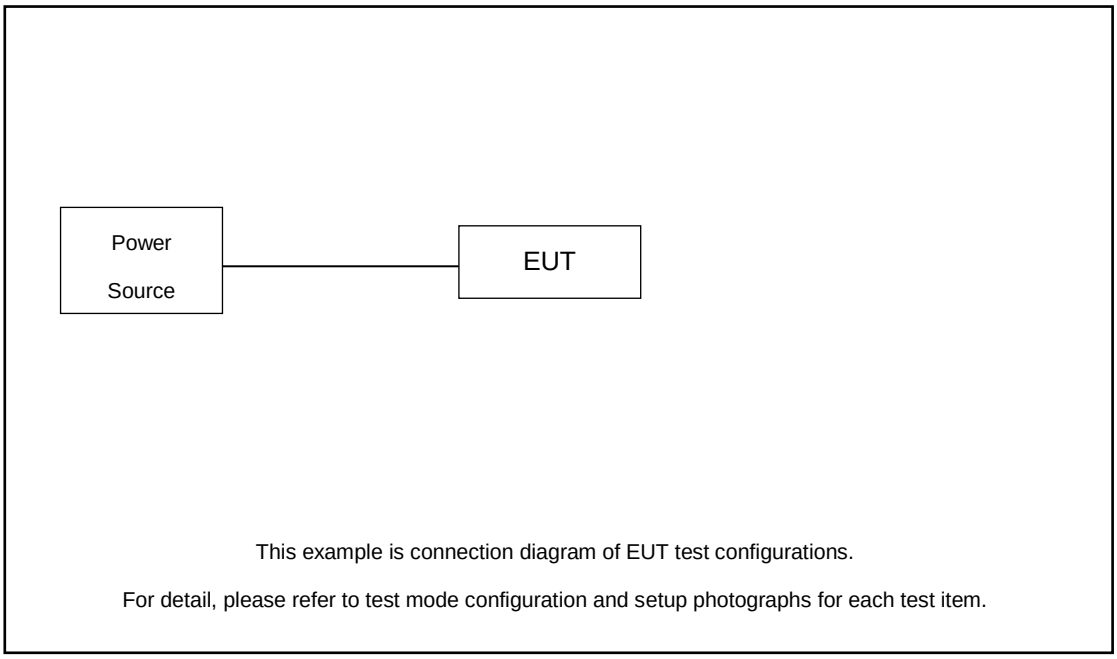
For AC Conducted Emission



This example is connection diagram of EUT test configurations.

For detail, please refer to test mode configuration and setup photographs for each test item.

For Radiated Emission



This example is connection diagram of EUT test configurations.

For detail, please refer to test mode configuration and setup photographs for each test item.

2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
2.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
3.	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 (QRCT TX Tool) 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 6.31 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 6.31 + 10 = 16.31 (dB)

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) ≥ 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.

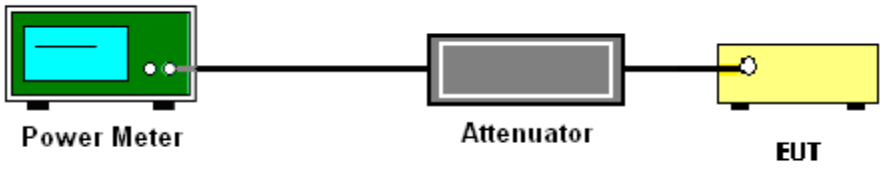
3.2.3 Test Procedures

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 ≥ 3 MHz.
- Number of points in sweep ≥ 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, attenuator loss and duty factor. 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.

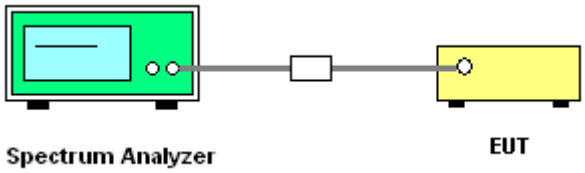
   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first

spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

Method (b): Measure and sum spectral maxima across the outputs.
The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

Method (c): Measure and add 10 log(N_{ANT}) dB, where N_{ANT} is the number of outputs.
The measurement on each individual output were performed with the same span and number on each individual output. The quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit.

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 v01r01.

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 ≥ 3 X RBW
   d) Number of points in sweep ≥ [2 X span / 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 Contention Based Protocol

3.5.1 Limit of Contention Based Protocol

<FCC 14-30 CFR 15.407>

(d)(6) Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

where:
$BWEUT$: Transmission bandwidth of EUT signal
$BWInc$: Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)
$fc1$: Center frequency of EUT transmission
$fc2$: Center frequency of simulated incumbent signal

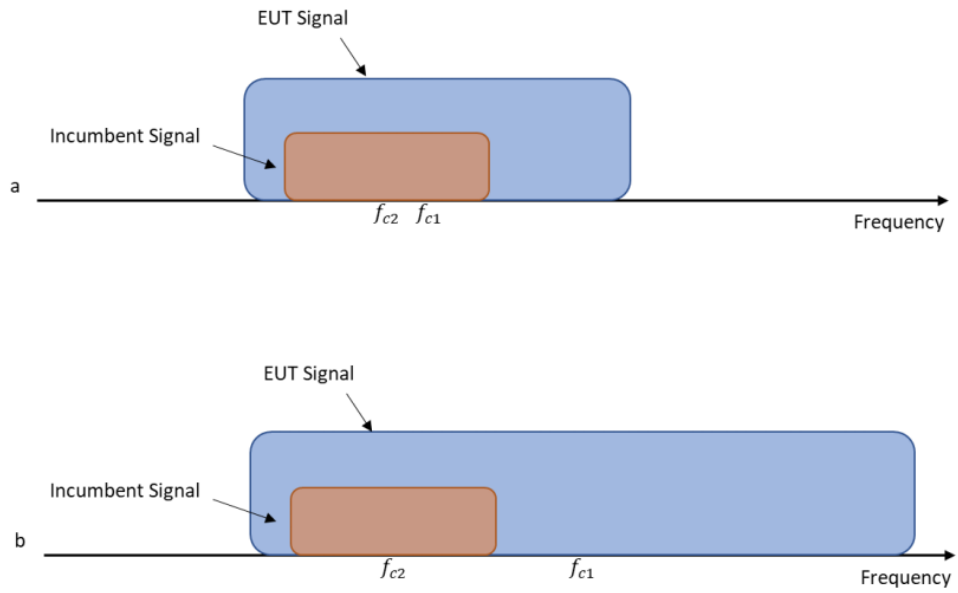


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

Refer to KDB 987594 D02 v01r01.

1. To ensure EUT reliably detects an incumbent signal in both scenarios shown in Figure 1, the detection threshold test may be repeated more than once with the incumbent signal (having center frequency $fc2$) tuned to different center frequencies within the UT transmission bandwidth. The criteria specified in Table 1 determines how many times the detection threshold test must be performed
2. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
3. Monitor the signal analyzer to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
4. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.

5. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 2, choose a different center frequency for the AWGN signal and repeat the process.
6. EUT was driven in MIMO mode, the interferer signal was injected to both chains to monitor the performance, while the interferer level is determined according to the lowest antenna gain among both antennas.

3.5.4 Test Setup

Conducted Setup

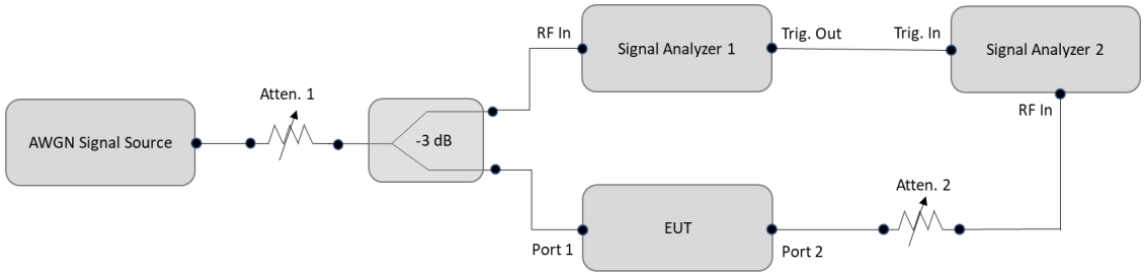


Figure 2. Contention-based protocol test setup, conducted method Step-by-Step Procedure, Conducted Setup

3.5.5 Support Unit used in test configuration and system

Instrument	Brand Name	Model No.	Characteristics
WLAN AP	ASUS	GT-AXE11000	Dual Band AP
Notebook	DELL	P78G	LAN

3.5.6 Test Summary of Contention Based Protocol Test

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 5	6135	20	6135	-75.96	100	-62	-67.16	5.16
					Result: Stop Transmission			
				-76.96	< 90	-62	-68.16	6.16
					Result: Minimal Operation			
				-79.41	0	-62	-70.61	8.61
					Result: Normal Operation			
	6185	160	6110	-72.86	100	-62	-64.06	2.06
					Result: Stop Transmission			
				-73.86	< 90	-62	-65.06	3.06
					Result: Minimal Operation			
				-78.93	0	-62	-70.13	8.13
					Result: Normal Operation			
			6185	-75.25	100	-62	-66.45	4.45
					Result: Stop Transmission			
				-76.25	< 90	-62	-67.45	5.45
					Result: Minimal Operation			
				-77.09	0	-62	-68.29	6.29
					Result: Normal Operation			
			6260	-73.24	100	-62	-64.44	2.44
					Result: Stop Transmission			
				-74.24	< 90	-62	-65.44	3.44
					Result: Minimal Operation			
				-77.13	0	-62	-68.33	6.33
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (Antenna 4, gain = -8.8dBi)

Note 2: Path Loss between antenna and RF connector is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 6	6455	20	6455	-74.15	100	-62	-65.35	3.35
					Result: Stop Transmission			
				-75.15	< 90	-62	-66.35	4.35
					Result: Minimal Operation			
				-77.36	0	-62	-68.56	6.56
					Result: Normal Operation			
	6505	160	6430	-74.93	100	-62	-66.13	4.13
					Result: Stop Transmission			
				-75.93	< 90	-62	-67.13	5.13
					Result: Minimal Operation			
				-76.05	0	-62	-67.25	5.25
					Result: Normal Operation			
			6505	-72.93	100	-62	-64.13	2.13
					Result: Stop Transmission			
				-73.93	< 90	-62	-65.13	3.13
					Result: Minimal Operation			
				-74.64	0	-62	-65.84	3.84
					Result: Normal Operation			
			6580	-73.37	100	-62	-64.57	2.57
					Result: Stop Transmission			
				-74.37	< 90	-62	-65.57	3.57
					Result: Minimal Operation			
				-76.80	0	-62	-68	6
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (Antenna 4, gain = -8.8dBi)

Note 2: Path Loss between antenna and RF connector is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 7	6695	20	6695	-72.14	100	-62	-63.34	1.34
					Result: Stop Transmission			
				-73.14	< 90	-62	-64.34	2.34
					Result: Minimal Operation			
				-76.83	0	-62	-68.03	6.03
					Result: Normal Operation			
	6665	160	6590	-74.50	100	-62	-65.7	3.7
					Result: Stop Transmission			
				-75.50	< 90	-62	-66.7	4.7
					Result: Minimal Operation			
				-75.57	0	-62	-66.77	4.77
					Result: Normal Operation			
			6665	-73.75	100	-62	-64.95	2.95
					Result: Stop Transmission			
				-74.75	< 90	-62	-65.95	3.95
					Result: Minimal Operation			
				-75.55	0	-62	-66.75	4.75
					Result: Normal Operation			
			6740	-74.08	100	-62	-65.28	3.28
					Result: Stop Transmission			
				-75.08	< 90	-62	-66.28	4.28
					Result: Minimal Operation			
				-77.12	0	-62	-68.32	6.32
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (Antenna 4, gain = -8.8dBi)

Note 2: Path Loss between antenna and RF connector is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power

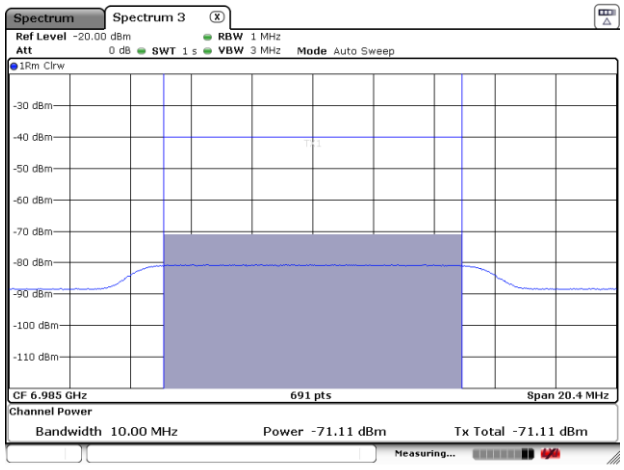
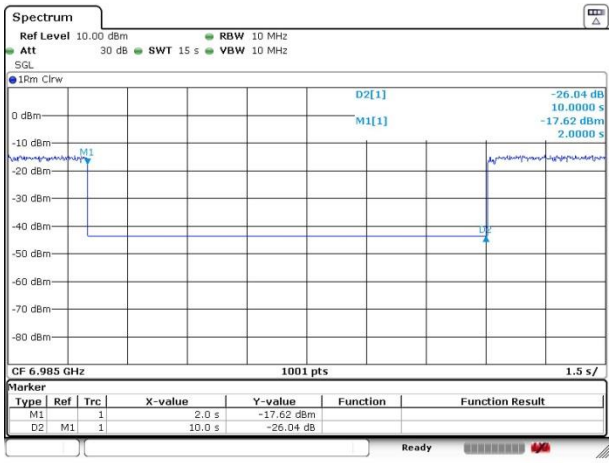
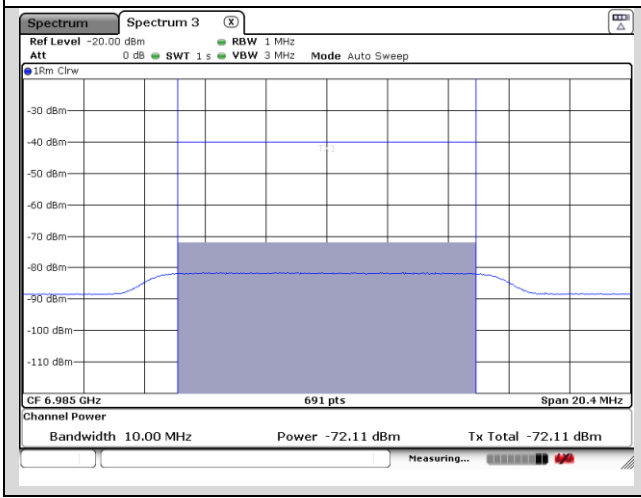
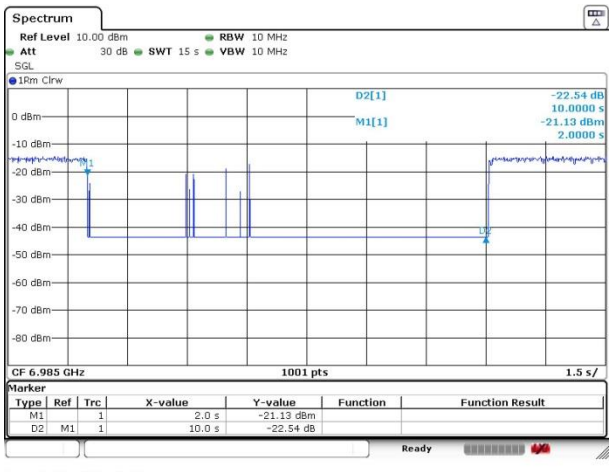
Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 8	7015	20	7015	-76.32	100	-62	-67.52	5.52
					Result: Stop Transmission			
				-77.32	< 90	-62	-68.52	6.52
					Result: Minimal Operation			
				-77.79	0	-62	-68.99	6.99
					Result: Normal Operation			
	6985	160	6910	-71.36	100	-62	-62.56	0.56
					Result: Stop Transmission			
				-72.36	< 90	-62	-63.56	1.56
					Result: Minimal Operation			
				-72.99	0	-62	-64.19	2.19
					Result: Normal Operation			
			6985	**-71.11**	100	-62	-62.31	**0.31**
					Result: Stop Transmission			
				-72.11	< 90	-62	-63.31	1.31
					Result: Minimal Operation			
				-72.80	0	-62	-64	2
					Result: Normal Operation			
			7060	-71.38	100	-62	-62.58	0.58
					Result: Stop Transmission			
				-72.38	< 90	-62	-63.58	1.58
					Result: Minimal Operation			
				-72.66	0	-62	-63.86	1.86
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (Antenna 4, gain = -8.8dBi)

Note 2: Path Loss between antenna and RF connector is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power

3.5.7 Worst Case Plots of Contention Based Protocol

Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)	
802.11ax (HE160) / 6985MHz Threshold Level (TL) = -71.11 dBm	802.11ax (HE160) / 6985MHz Test result is pass due to no transmission occur.
	
802.11ax (HE160) / 6985MHz Threshold Level (TL) = -72.11 dBm	802.11ax (HE160) / 6985MHz Transmit when the interferer is 1dB lower.
	

Remark: M1: Injection of AWGN signal, D2: Removal of AWGN signal

3.6 Unwanted Emissions Measurement

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

3.6.1 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)	68.2
- 7 (Peak)	88.2

According 987594 D02 U-NII 6GHz EMC Measurement v01r01 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.

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 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 ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

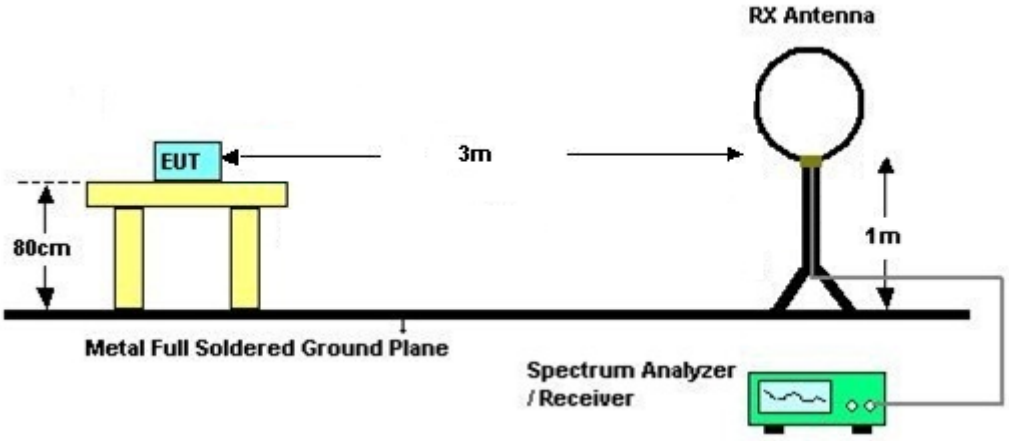
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 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.

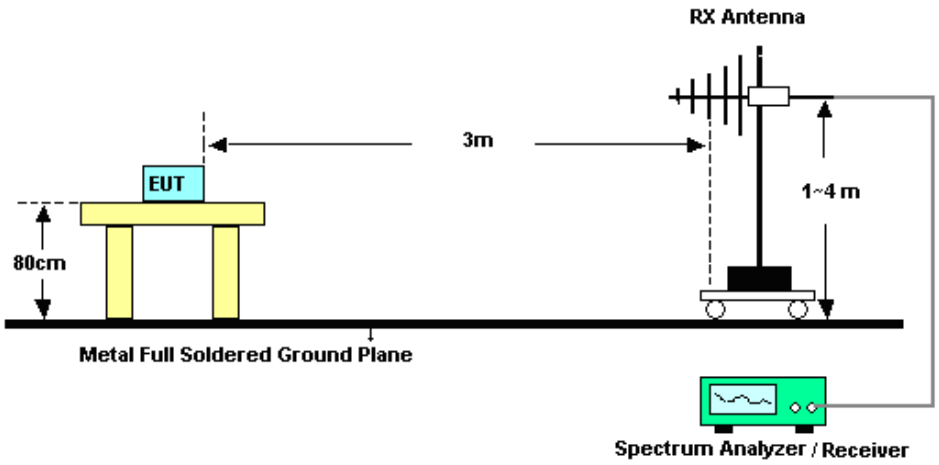
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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.

3.6.4 Test Setup

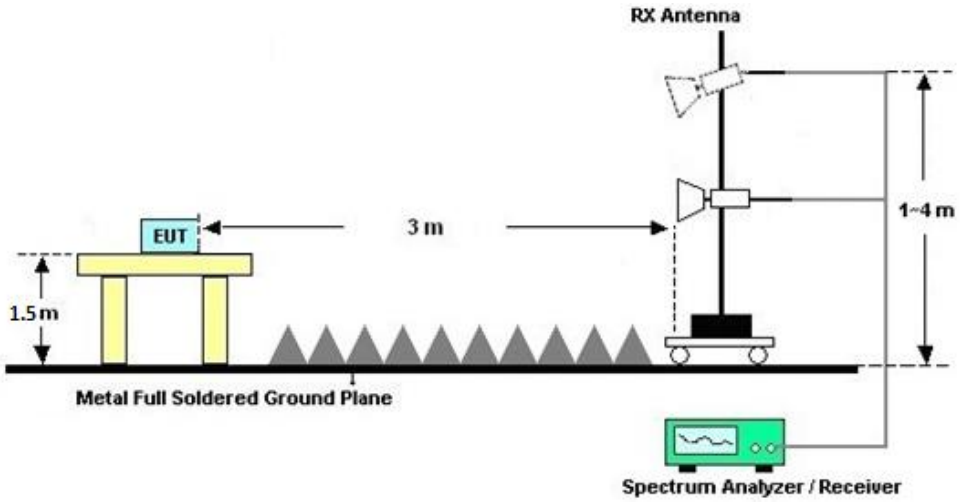
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.6.5 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.

3.6.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C&D.

3.6.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C&D.

The emission level above 18GHz is checked that the emission level is noise floor only, so it is not reflected in the report.

3.7 AC Conducted Emission Measurement

3.7.1 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 (dBμV)	
	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.

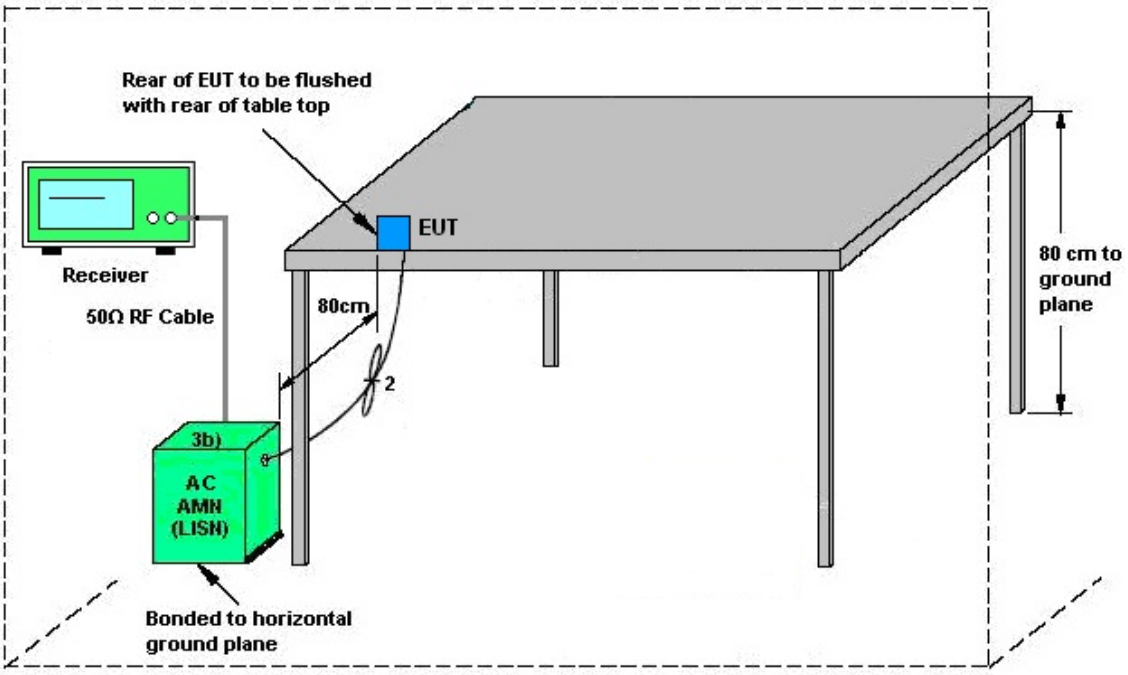
3.7.2 Measuring Instruments

See list of measuring equipment of this test report.

3.7.3 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.

3.7.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.7.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.8 Antenna Requirements

3.8.1 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.

3.8.2 Antenna Anti-Replacement Construction

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

3.8.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e.,

Directional gain = $G_{ANT\ MAX}$(Ant.1 Gain, Ant.2 Gain,…) + Array Gain, as following table for Power,

where Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;

For PSD, the directional gain calculation is following,

Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{Gn/20})^2 / N_{ANT}$] dBi, as following table for PSD.

N_{ANT} = number of transmit antennas

N_{SS} = number of spatial streams. (The worst case directional gain will occur when NSS = 1)

For completely uncorrelated transmissions, directional gain is calculated as,

Directional gain = $G_{ANT\ MAX}$(Ant.1 Gain, Ant.2 Gain,…), as following table

<CDD Modes>

	Ant. 4 (dBi)	Ant. 5 (dBi)	DG for Power (dBi)	DG for PSD (dBi)
U-NII-5	-8.80	-5.00	-5.00	-3.68
U-NII-6	-8.80	-5.00	-5.00	-3.68
U-NII-7	-8.80	-5.00	-5.00	-3.68
U-NII-8	-8.80	-5.00	-5.00	-3.68

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	101040	10Hz~40GHz	Oct. 12, 2022	Dec. 22, 2022~ Jan. 09, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2022	Dec. 22, 2022~ Jan. 09, 2023	Jan. 04, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 04, 2023		Jan. 03, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2022	Dec. 22, 2022~ Jan. 09, 2023	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 04, 2023		Jan. 03, 2024	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 19, 2022	Dec. 28, 2022~ Jan. 17, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2022	Dec. 28, 2022~ Jan. 17, 2023	Jul. 06, 2023	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Dec. 28, 2022~ Jan. 17, 2023	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Apr. 27, 2022	Dec. 28, 2022~ Jan. 17, 2023	Apr. 26, 2023	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2022	Dec. 28, 2022~ Jan. 17, 2023	Jul. 06, 2023	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 07. 2022	Dec. 28, 2022~ Jan. 17, 2023	Jul. 06, 2023	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2022	Dec. 28, 2022~ Jan. 17, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Dec. 28, 2022~ Jan. 17, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 06, 2022	Dec. 28, 2022~ Jan. 17, 2023	Jul. 05, 2023	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Sep. 30, 2022	Dec. 28, 2022~ Jan. 17, 2023	Sep. 29, 2023	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Nov. 10, 2022	Dec. 28, 2022~ Jan. 17, 2023	Nov. 09, 2023	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 28, 2022~ Jan. 17, 2023	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 28, 2022~ Jan. 17, 2023	NCR	Radiation (03CH04-SZ)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	Jan. 13, 2023	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Jan. 13, 2023	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Jan. 13, 2023	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Jan. 13, 2023	Oct. 11, 2023	Conduction (CO01-KS)
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	Apr. 12, 2022	Jan. 05, 2023	Apr. 11, 2023	CBP (DFS01-KS)
MXG-B RF Vector Signal Genertor	Keysight	5182B /5182BX07	MY56200417 /MY59360210	9kHz~7.2GHz	May 24, 2022	Jan. 05, 2023	May 23, 2023	CBP (DFS01-KS)
Vector Signal Generator	R&S	SMBV100A	258305	9kHz~6GHz	Jan. 06, 2022	Jan. 05, 2023	Jan. 05, 2023	CBP (DFS01-KS)
Combiner	MTJ Cooperation	MTJ7112	N/A	0.4-6GHz	NCR	Jan. 05, 2023	NCR	CBP (DFS01-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.10 %
Conducted Power Spectral Density	±0.40 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.78 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB

---------- THE END ----------

Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Long Wu	Temperature:	21~25	°C
Test Date:	2022/12/22~2023/01/09	Relative Humidity:	51~54	%

Report Number : FR2D0913F

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	SUM		
11a	6Mbps	2	001	5955	0.03	0.04	10.26	10.25	13.27	-5.00		8.27	24.00	Pass
11a	6Mbps	2	002	5935	0.03	0.04	10.00	9.93	12.98	-5.00		7.98	24.00	Pass
11a	6Mbps	2	045	6175	0.03	0.04	10.18	9.57	12.90	-5.00		7.90	24.00	Pass
11a	6Mbps	2	093	6415	0.03	0.04	10.21	9.62	12.94	-5.00		7.94	24.00	Pass

Report Number : FR2D0913F

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 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	SUM		
HE20	MCS0	2	5935	Full	0.00	0.00	-3.12	-3.03	-0.06	-5.00		-5.06	24.00	Pass
HE20	MCS0	2	5935	26/0	0.00	0.00	-10.95	-10.65	-7.79	-5.00		-12.79	24.00	Pass
HE20	MCS0	2	5935	52/37	0.00	0.00	-9.67	-8.93	-6.27	-5.00		-11.27	24.00	Pass
HE20	MCS0	2	5935	106/53	0.00	0.00	-4.89	-5.15	-2.01	-5.00		-7.01	24.00	Pass
HE20	MCS0	2	5955	Full	0.00	0.00	10.31	10.20	13.27	-5.00		8.27	24.00	Pass
HE20	MCS0	2	5955	26/0	0.00	0.00	-0.08	0.55	3.26	-5.00		-1.74	24.00	Pass
HE20	MCS0	2	5955	52/37	0.00	0.00	2.35	3.05	5.72	-5.00		0.72	24.00	Pass
HE20	MCS0	2	5955	106/53	0.00	0.00	6.82	6.76	9.80	-5.00		4.80	24.00	Pass
HE20	MCS0	2	6175	Full	0.00	0.00	10.18	9.57	12.90	-5.00		7.90	24.00	Pass
HE20	MCS0	2	6415	Full	0.00	0.00	10.10	9.54	12.84	-5.00		7.84	24.00	Pass
HE20	MCS0	2	6415	26/8	0.00	0.00	-0.27	0.63	3.21	-5.00		-1.79	24.00	Pass
HE20	MCS0	2	6415	52/40	0.00	0.00	5.07	4.26	7.69	-5.00		2.69	24.00	Pass
HE20	MCS0	2	6415	106/54	0.00	0.00	6.72	5.83	9.31	-5.00		4.31	24.00	Pass
HE40	MCS0	2	5965	Full	0.00	0.00	11.96	11.69	14.84	-5.00		9.84	24.00	Pass
HE40	MCS0	2	6165	Full	0.00	0.00	12.01	11.41	14.73	-5.00		9.73	24.00	Pass
HE40	MCS0	2	6405	Full	0.00	0.00	11.94	11.31	14.65	-5.00		9.65	24.00	Pass
HE80	MCS0	2	5985	Full	0.00	0.00	13.01	12.65	15.84	-5.00		10.84	24.00	Pass
HE80	MCS0	2	6145	Full	0.00	0.00	13.07	12.41	15.76	-5.00		10.76	24.00	Pass
HE80	MCS0	2	6385	Full	0.00	0.00	13.12	12.46	15.81	-5.00		10.81	24.00	Pass
HE160	MCS0	2	6025	Full	0.00	0.00	15.24	14.61	17.95	-5.00		12.95	24.00	Pass
HE160	MCS0	2	6185	Full	0.00	0.00	15.49	14.53	18.05	-5.00		13.05	24.00	Pass
HE160	MCS0	2	6345	Full	0.00	0.00	14.89	14.32	17.62	-5.00		12.62	24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-6 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	SUM		
11a	6Mbps	2	097	6435	0.03	0.04	10.34	9.70	13.04	-5.00		8.04	24.00	Pass
11a	6Mbps	2	105	6475	0.03	0.04	10.43	9.58	13.04	-5.00		8.04	24.00	Pass
11a	6Mbps	2	113	6515	0.03	0.04	9.98	9.74	12.87	-5.00		7.87	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 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	SUM		
HE20	MCS0	2	097	6435	Full	0.00	0.00	10.32	9.81	13.08	-5.00		8.08	24.00	Pass
HE20	MCS0	2	097	6435	26/0	0.00	0.00	-0.45	0.69	3.17	-5.00		-1.83	24.00	Pass
HE20	MCS0	2	097	6435	52/37	0.00	0.00	2.42	3.04	5.75	-5.00		0.75	24.00	Pass
HE20	MCS0	2	097	6435	106/53	0.00	0.00	6.32	5.67	9.02	-5.00		4.02	24.00	Pass
HE20	MCS0	2	105	6475	Full	0.00	0.00	10.29	9.46	12.91	-5.00		7.91	24.00	Pass
HE20	MCS0	2	113	6515	Full	0.00	0.00	9.97	9.72	12.86	-5.00		7.86	24.00	Pass
HE20	MCS0	2	113	6515	26/8	0.00	0.00	-0.95	0.19	2.67	-5.00		-2.33	24.00	Pass
HE20	MCS0	2	113	6515	52/40	0.00	0.00	4.07	3.88	6.99	-5.00		1.99	24.00	Pass
HE20	MCS0	2	113	6515	106/54	0.00	0.00	6.23	3.97	8.26	-5.00		3.26	24.00	Pass
HE40	MCS0	2	099	6445	Full	0.00	0.00	12.23	11.38	14.84	-5.00		9.84	24.00	Pass
HE40	MCS0	2	107	6485	Full	0.00	0.00	11.81	11.57	14.70	-5.00		9.70	24.00	Pass
HE40	MCS0	2	115	6525	Full	0.00	0.00	11.89	11.46	14.69	-5.00		9.69	24.00	Pass
HE80	MCS0	2	103	6465	Full	0.00	0.00	13.11	12.52	15.84	-5.00		10.84	24.00	Pass
HE80	MCS0	2	119	6545	Full	0.00	0.00	12.96	12.75	15.87	-5.00		10.87	24.00	Pass
HE160	MCS0	2	111	6505	Full	0.00	0.00	14.85	14.43	17.66	-5.00		12.66	24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	SUM		
11a	6Mbps	2	6535	0.03	0.04	10.13	9.78	12.97	-5.00		7.97	24.00	Pass
11a	6Mbps	2	6695	0.03	0.04	9.99	10.16	13.09	-5.00		8.09	24.00	Pass
11a	6Mbps	2	6855	0.03	0.04	9.92	10.24	13.10	-5.00		8.10	24.00	Pass

Report Number : FR2D0913F

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 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	SUM		
HE20	MCS0	2	6535	Full	0.00	0.00	10.04	9.66	12.86	-5.00		7.86	24.00	Pass
HE20	MCS0	2	6535	26/0	0.00	0.00	-0.58	0.90	3.23	-5.00		-1.77	24.00	Pass
HE20	MCS0	2	6535	52/37	0.00	0.00	1.98	2.73	5.38	-5.00		0.38	24.00	Pass
HE20	MCS0	2	6535	106/53	0.00	0.00	5.97	5.59	8.79	-5.00		3.79	24.00	Pass
HE20	MCS0	2	6695	Full	0.00	0.00	9.87	10.08	12.99	-5.00		7.99	24.00	Pass
HE20	MCS0	2	6695	26/0	0.00	0.00	-0.64	0.42	2.93	-5.00		-2.07	24.00	Pass
HE20	MCS0	2	6695	52/37	0.00	0.00	4.29	4.29	7.30	-5.00		2.30	24.00	Pass
HE20	MCS0	2	6695	106/53	0.00	0.00	6.23	6.52	9.39	-5.00		4.39	24.00	Pass
HE20	MCS0	2	6855	Full	0.00	0.00	9.80	10.12	12.97	-5.00		7.97	24.00	Pass
HE20	MCS0	2	6855	26/8	0.00	0.00	0.24	1.29	3.81	-5.00		-1.19	24.00	Pass
HE20	MCS0	2	6855	52/40	0.00	0.00	3.96	4.67	7.34	-5.00		2.34	24.00	Pass
HE20	MCS0	2	6855	106/54	0.00	0.00	6.66	6.95	9.82	-5.00		4.82	24.00	Pass
HE40	MCS0	2	6565	Full	0.00	0.00	11.85	11.57	14.72	-5.00		9.72	24.00	Pass
HE40	MCS0	2	6685	Full	0.00	0.00	11.79	11.79	14.80	-5.00		9.80	24.00	Pass
HE40	MCS0	2	6845	Full	0.00	0.00	11.64	12.08	14.88	-5.00		9.88	24.00	Pass
HE80	MCS0	2	6625	Full	0.00	0.00	13.08	12.72	15.91	-5.00		10.91	24.00	Pass
HE80	MCS0	2	6705	Full	0.00	0.00	12.57	12.68	15.64	-5.00		10.64	24.00	Pass
HE80	MCS0	2	6785	Full	0.00	0.00	12.51	12.98	15.76	-5.00		10.76	24.00	Pass
HE80	MCS0	2	6865	Full	0.00	0.00	12.53	12.75	15.65	-5.00		10.65	24.00	Pass
HE160	MCS0	2	6665	Full	0.00	0.00	14.83	14.75	17.80	-5.00		12.80	24.00	Pass
HE160	MCS0	2	6825	Full	0.00	0.00	14.57	14.96	17.78	-5.00		12.78	24.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-8 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 5	Ant 5	Ant 5	Ant 5	SUM	Ant 5	Ant 4	SUM		
11a	6Mbps	2	6875	0.03	0.04	9.61	10.10	12.87	-5.00		7.87	24.00	Pass
11a	6Mbps	2	6895	0.03	0.04	9.30	10.06	12.71	-5.00		7.71	24.00	Pass
11a	6Mbps	2	6995	0.03	0.04	10.27	10.20	13.25	-5.00		8.25	24.00	Pass
11a	6Mbps	2	7115	0.03	0.04	9.95	10.31	13.15	-5.00		8.15	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 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	SUM		
HE20	MCS0	2	6875	Full	0.00	0.00	9.57	9.99	12.80	-5.00		7.80	24.00	Pass
HE20	MCS0	2	6875	26/8	0.00	0.00	0.42	1.24	3.86	-5.00		-1.14	24.00	Pass
HE20	MCS0	2	6875	52/40	0.00	0.00	3.95	3.68	6.83	-5.00		1.83	24.00	Pass
HE20	MCS0	2	6875	106/54	0.00	0.00	6.52	7.07	9.81	-5.00		4.81	24.00	Pass
HE20	MCS0	2	6895	Full	0.00	0.00	9.20	9.94	12.60	-5.00		7.60	24.00	Pass
HE20	MCS0	2	6895	26/0	0.00	0.00	-0.14	1.69	3.88	-5.00		-1.12	24.00	Pass
HE20	MCS0	2	6895	52/37	0.00	0.00	3.94	4.62	7.30	-5.00		2.30	24.00	Pass
HE20	MCS0	2	6895	106/53	0.00	0.00	6.42	7.04	9.75	-5.00		4.75	24.00	Pass
HE20	MCS0	2	6995	Full	0.00	0.00	9.97	10.51	13.26	-5.00		8.26	24.00	Pass
HE20	MCS0	2	6995	26/0	0.00	0.00	0.87	0.53	3.71	-5.00		-1.29	24.00	Pass
HE20	MCS0	2	6995	52/37	0.00	0.00	4.15	4.29	7.23	-5.00		2.23	24.00	Pass
HE20	MCS0	2	6995	106/53	0.00	0.00	6.67	6.94	9.82	-5.00		4.82	24.00	Pass
HE20	MCS0	2	7095	Full	0.00	0.00	10.15	9.98	13.08	-5.00		8.08	24.00	Pass
HE20	MCS0	2	7095	26/8	0.00	0.00	2.53	1.49	5.05	-5.00		0.05	24.00	Pass
HE20	MCS0	2	7095	52/40	0.00	0.00	4.32	3.48	6.93	-5.00		1.93	24.00	Pass
HE20	MCS0	2	7095	106/54	0.00	0.00	6.86	6.33	9.61	-5.00		4.61	24.00	Pass
HE20	MCS0	2	7115	Full	0.00	0.00	-9.81	-9.03	-6.39	-5.00		-11.39	24.00	Pass
HE20	MCS0	2	7115	26/8	0.00	0.00	-17.41	-17.52	-14.45	-5.00		-19.45	24.00	Pass
HE20	MCS0	2	7115	52/40	0.00	0.00	-14.49	-13.70	-11.07	-5.00		-16.07	24.00	Pass
HE20	MCS0	2	7115	106/54	0.00	0.00	-11.89	-12.09	-8.98	-5.00		-13.98	24.00	Pass
HE40	MCS0	2	6885	Full	0.00	0.00	11.27	11.91	14.61	-5.00		9.61	24.00	Pass
HE40	MCS0	2	6925	Full	0.00	0.00	11.08	11.85	14.49	-5.00		9.49	24.00	Pass
HE40	MCS0	2	6965	Full	0.00	0.00	11.58	12.09	14.85	-5.00		9.85	24.00	Pass
HE40	MCS0	2	7085	Full	0.00	0.00	12.09	11.73	14.92	-5.00		9.92	24.00	Pass
HE80	MCS0	2	6945	Full	0.00	0.00	12.38	13.03	15.73	-5.00		10.73	24.00	Pass
HE80	MCS0	2	7025	Full	0.00	0.00	13.49	12.81	16.17	-5.00		11.17	24.00	Pass
HE160	MCS0	2	6985	Full	0.00	0.00	14.97	15.25	18.12	-5.00		13.12	24.00	Pass

Emission Bandwidth

Test Result

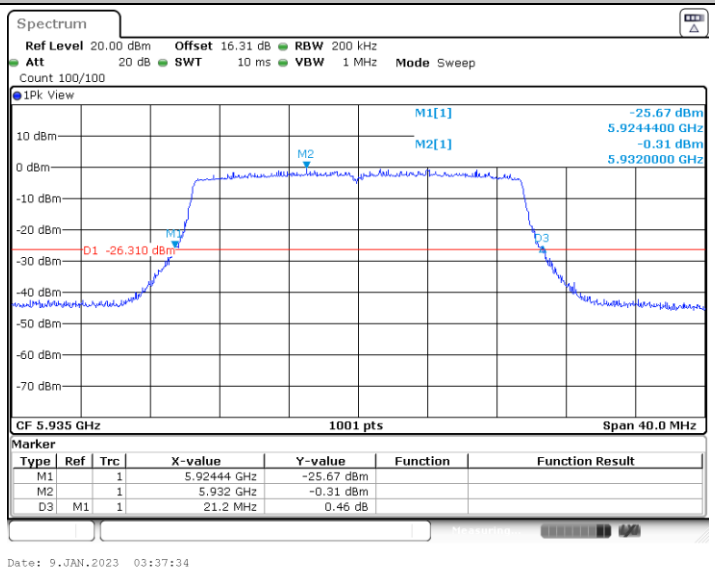
TestMode	Antenna	Freq(MHz)	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant5	5935	21.20	5924.44	5945.64	---	---
	Ant4	5935	21.28	5924.36	5945.64	---	---
	Ant5	5955	19.24	5945.36	5964.60	---	---
	Ant4	5955	19.36	5945.32	5964.68	---	---
	Ant5	6175	19.24	6165.36	6184.60	---	---
	Ant4	6175	19.16	6165.32	6184.48	---	---
	Ant5	6415	19.32	6405.32	6424.64	---	---
	Ant4	6415	19.08	6405.36	6424.44	---	---
	Ant5	6435	19.28	6425.28	6444.56	---	---
	Ant4	6435	19.12	6425.20	6444.32	---	---
	Ant5	6475	19.24	6465.28	6484.52	---	---
	Ant4	6475	19.12	6465.24	6484.36	---	---
	Ant5	6515	19.28	6505.28	6524.56	---	---
	Ant4	6515	19.28	6505.28	6524.56	---	---
	Ant5	6535	19.32	6525.28	6544.60	---	---
	Ant4	6535	19.20	6525.24	6544.44	---	---
	Ant5	6695	19.32	6685.28	6704.60	---	---
	Ant4	6695	19.12	6685.28	6704.40	---	---
	Ant5	6855	19.32	6845.28	6864.60	---	---
	Ant4	6855	19.08	6845.28	6864.36	---	---
	Ant5	6875	19.28	6865.32	6884.60	---	---
	Ant4	6875	19.20	6865.24	6884.44	---	---
	Ant5	6895	19.32	6885.28	6904.60	---	---
	Ant4	6895	19.28	6885.28	6904.56	---	---
	Ant5	6995	19.28	6985.28	7004.56	---	---
	Ant4	6995	19.12	6985.24	7004.36	---	---
	Ant5	7095	19.32	7085.28	7104.60	---	---
	Ant4	7095	19.16	7085.28	7104.44	---	---
	Ant5	7115	19.32	7105.28	7124.60	---	---
	Ant4	7115	19.04	7105.28	7124.32	---	---
11AX20MIMO	Ant5	5935	21.24	5924.44	5945.68	---	---
	Ant4	5935	21.24	5924.40	5945.64	---	---
	Ant5	5955	21.16	5944.44	5965.60	---	---
	Ant4	5955	20.92	5944.52	5965.44	---	---
	Ant5	6175	21.12	6164.40	6185.52	---	---
	Ant4	6175	21.08	6164.48	6185.56	---	---
	Ant5	6415	21.24	6404.36	6425.60	---	---
	Ant4	6415	21.12	6404.28	6425.40	---	---
	Ant5	6435	21.08	6424.40	6445.48	---	---
	Ant4	6435	21.00	6424.44	6445.44	---	---

	Ant5	6475	20.92	6464.48	6485.40	---	---
	Ant4	6475	21.00	6464.40	6485.40	---	---
	Ant5	6515	21.04	6504.40	6525.44	---	---
	Ant4	6515	20.96	6504.36	6525.32	---	---
	Ant5	6535	20.92	6524.48	6545.40	---	---
	Ant4	6535	20.96	6524.48	6545.44	---	---
	Ant5	6695	21.12	6684.40	6705.52	---	---
	Ant4	6695	21.08	6684.40	6705.48	---	---
	Ant5	6855	21.04	6844.52	6865.56	---	---
	Ant4	6855	21.04	6844.44	6865.48	---	---
	Ant5	6875	21.12	6864.44	6885.56	---	---
	Ant4	6875	21.28	6864.32	6885.60	---	---
	Ant5	6895	21.04	6884.40	6905.44	---	---
	Ant4	6895	21.20	6884.40	6905.60	---	---
	Ant5	6995	21.00	6984.44	7005.44	---	---
	Ant4	6995	21.08	6984.32	7005.40	---	---
	Ant5	7095	21.00	7084.40	7105.40	---	---
	Ant4	7095	21.24	7084.52	7105.76	---	---
	Ant5	7115	20.96	7104.48	7125.44	---	---
	Ant4	7115	20.92	7104.40	7125.32	---	---
11AX40MIMO	Ant5	5965	40.88	5944.60	5985.48	---	---
	Ant4	5965	41.04	5944.52	5985.56	---	---
	Ant5	6165	40.96	6144.60	6185.56	---	---
	Ant4	6165	41.04	6144.44	6185.48	---	---
	Ant5	6405	40.88	6384.52	6425.40	---	---
	Ant4	6405	40.96	6384.52	6425.48	---	---
	Ant5	6445	40.96	6424.52	6465.48	---	---
	Ant4	6445	40.80	6424.60	6465.40	---	---
	Ant5	6485	40.96	6464.52	6505.48	---	---
	Ant4	6485	40.88	6464.44	6505.32	---	---
	Ant5	6525	40.80	6504.52	6545.32	---	---
	Ant4	6525	40.96	6504.36	6545.32	---	---
	Ant5	6565	40.80	6544.44	6585.24	---	---
	Ant4	6565	40.80	6544.60	6585.40	---	---
	Ant5	6685	40.80	6664.60	6705.40	---	---
	Ant4	6685	40.88	6664.52	6705.40	---	---
	Ant5	6845	40.48	6824.68	6865.16	---	---
	Ant4	6845	40.88	6824.60	6865.48	---	---
	Ant5	6885	41.04	6864.44	6905.48	---	---
	Ant4	6885	40.80	6864.60	6905.40	---	---
	Ant5	6925	40.88	6904.52	6945.40	---	---
	Ant4	6925	41.20	6904.28	6945.48	---	---
	Ant5	6965	40.80	6944.68	6985.48	---	---
	Ant4	6965	40.80	6944.52	6985.32	---	---
	Ant5	7085	40.80	7064.52	7105.32	---	---

	Ant4	7085	40.88	7064.44	7105.32	---	---
11AX80MIMO	Ant5	5985	82.56	5943.56	6026.12	---	---
	Ant4	5985	82.88	5943.56	6026.44	---	---
	Ant5	6145	82.88	6103.40	6186.28	---	---
	Ant4	6145	83.36	6103.24	6186.60	---	---
	Ant5	6385	82.56	6343.56	6426.12	---	---
	Ant4	6385	83.04	6343.40	6426.44	---	---
	Ant5	6465	82.88	6423.40	6506.28	---	---
	Ant4	6465	82.88	6423.40	6506.28	---	---
	Ant5	6545	82.56	6503.56	6586.12	---	---
	Ant4	6545	82.88	6503.40	6586.28	---	---
	Ant5	6625	83.04	6583.24	6666.28	---	---
	Ant4	6625	82.88	6583.56	6666.44	---	---
	Ant5	6705	82.56	6663.56	6746.12	---	---
	Ant4	6705	83.52	6663.08	6746.60	---	---
	Ant5	6785	83.20	6743.24	6826.44	---	---
	Ant4	6785	82.88	6743.56	6826.44	---	---
	Ant5	6865	82.56	6823.88	6906.44	---	---
	Ant4	6865	83.04	6823.56	6906.60	---	---
	Ant5	6945	82.08	6903.88	6985.96	---	---
	Ant4	6945	82.72	6903.56	6986.28	---	---
	Ant5	7025	82.56	6983.40	7065.96	---	---
	Ant4	7025	82.72	6983.40	7066.12	---	---
11AX160MIMO	Ant5	6025	166.08	5942.12	6108.20	---	---
	Ant4	6025	166.40	5942.12	6108.52	---	---
	Ant5	6185	166.72	6101.48	6268.20	---	---
	Ant4	6185	166.40	6101.48	6267.88	---	---
	Ant5	6345	165.44	6262.12	6427.56	---	---
	Ant4	6345	166.40	6262.12	6428.52	---	---
	Ant5	6505	165.44	6421.80	6587.24	---	---
	Ant4	6505	166.08	6421.48	6587.56	---	---
	Ant5	6665	165.44	6581.80	6747.24	---	---
	Ant4	6665	166.72	6581.48	6748.20	---	---
	Ant5	6825	166.40	6741.80	6908.20	---	---
	Ant4	6825	166.08	6741.80	6907.88	---	---
	Ant5	6985	165.76	6901.80	7067.56	---	---
	Ant4	6985	165.76	6901.80	7067.56	---	---

Test Graphs

11A-CDD_Ant5_5935



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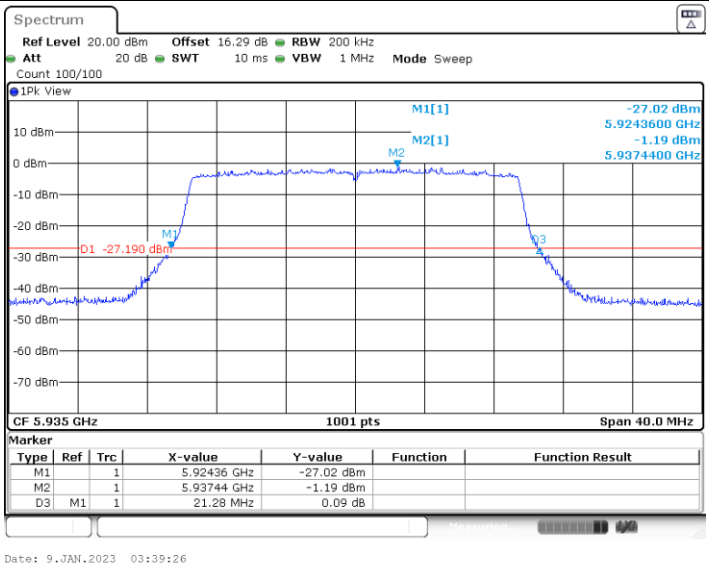

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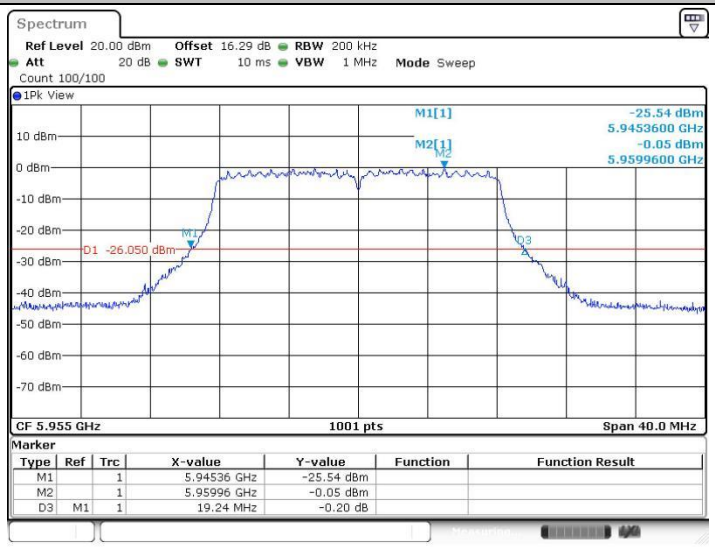

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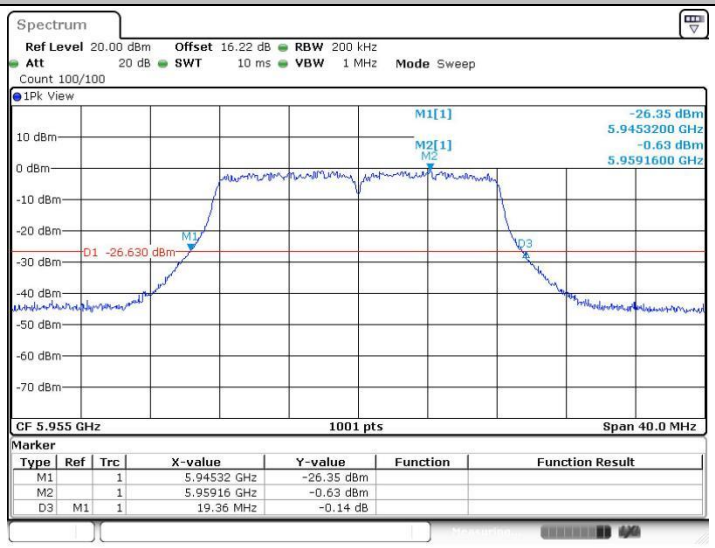

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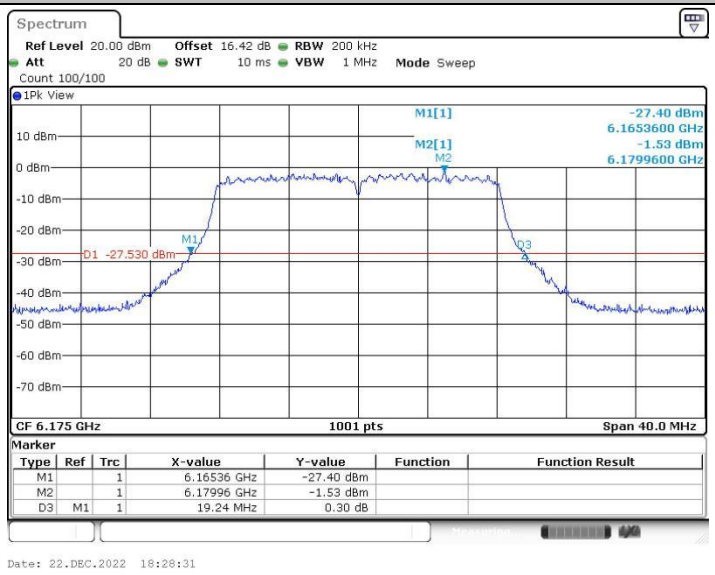

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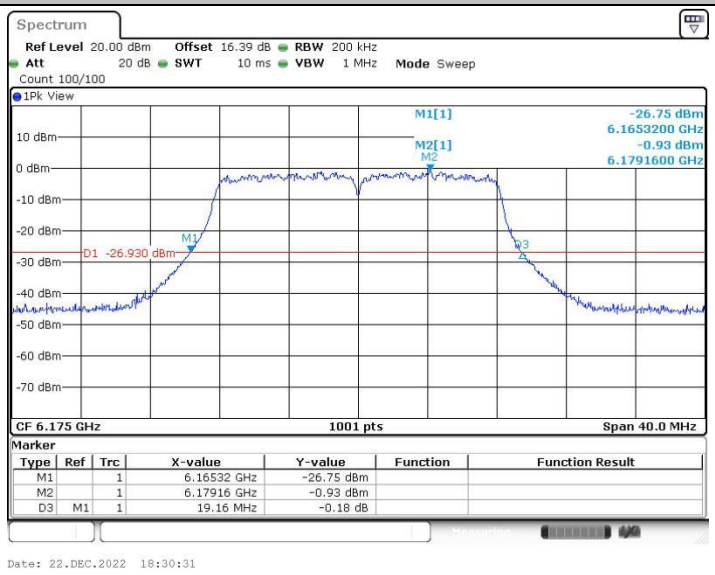

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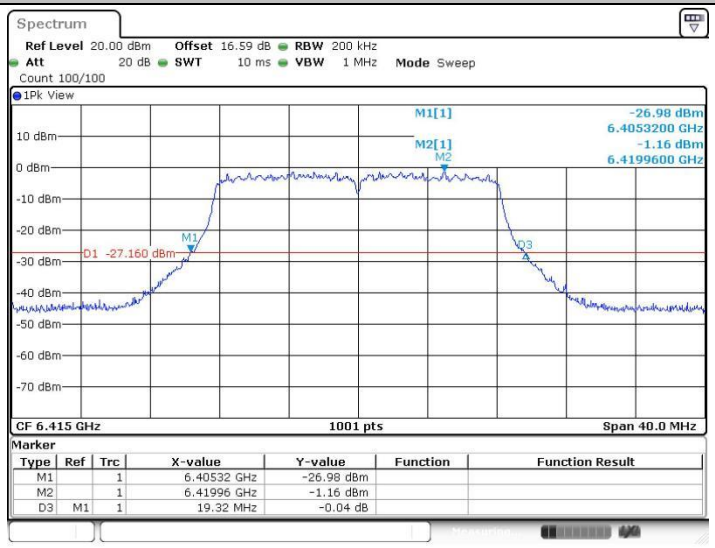

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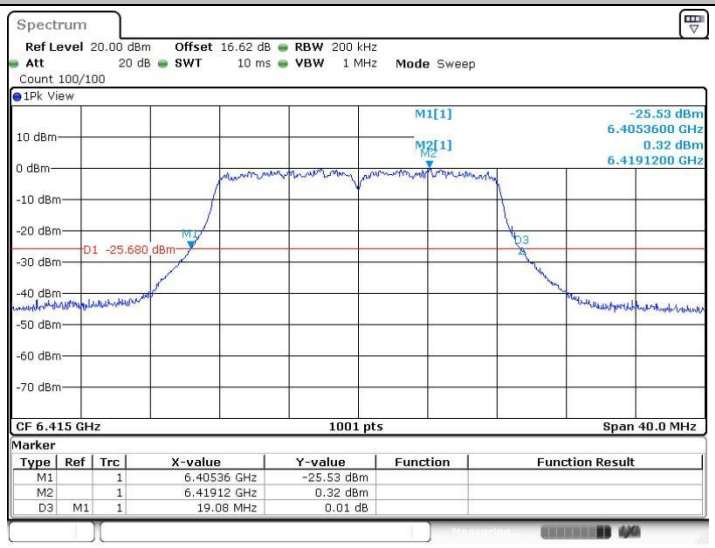

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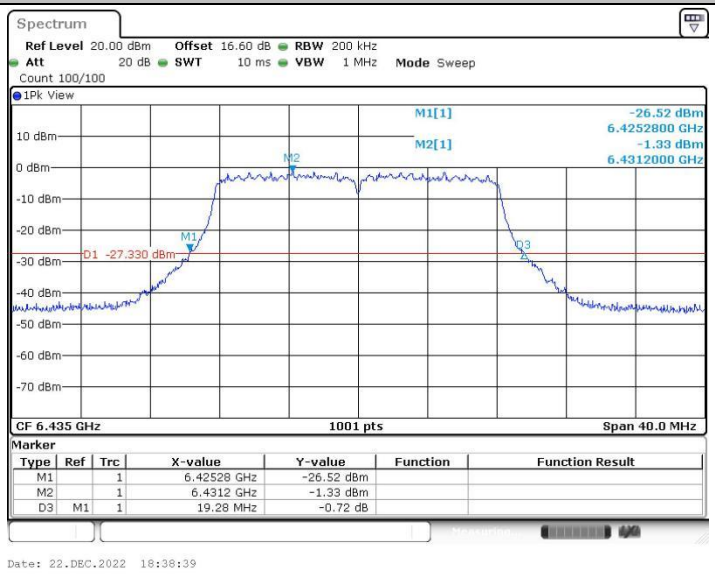

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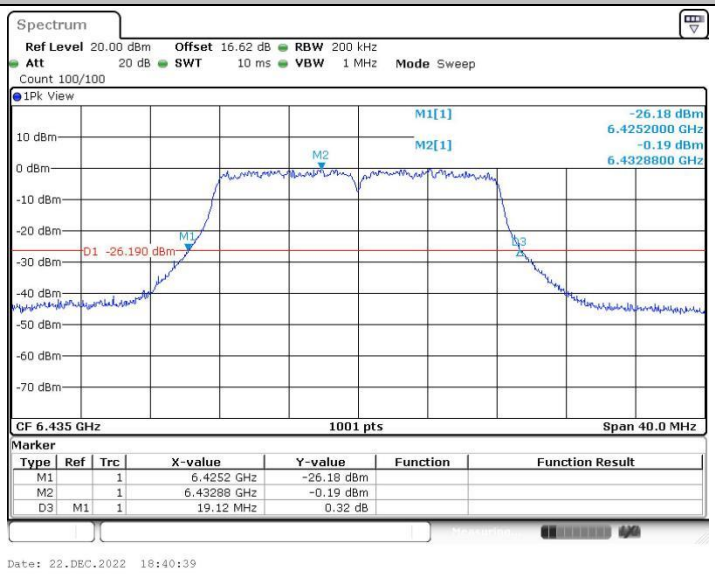

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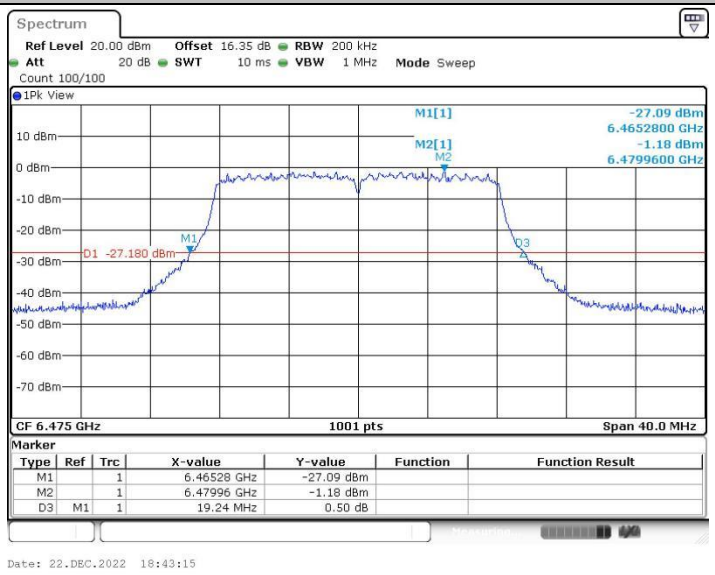

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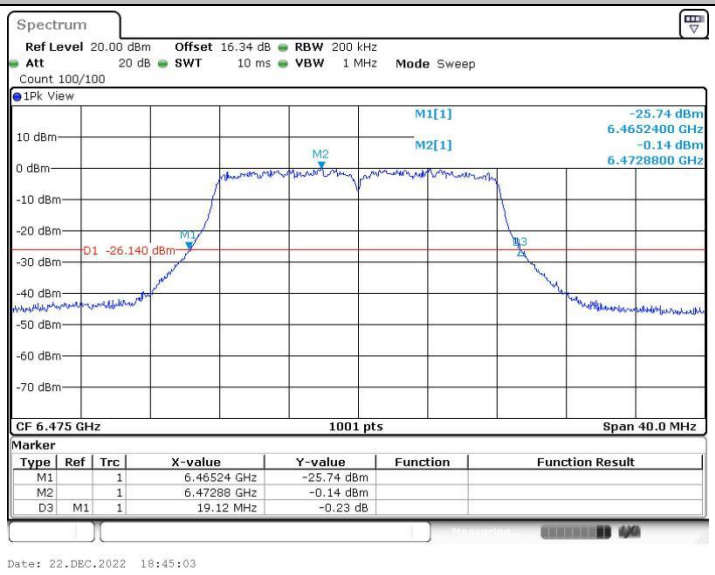

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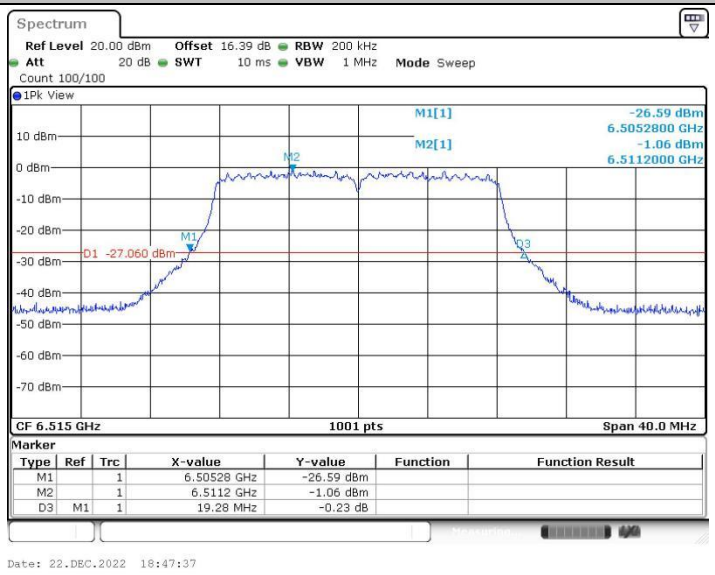

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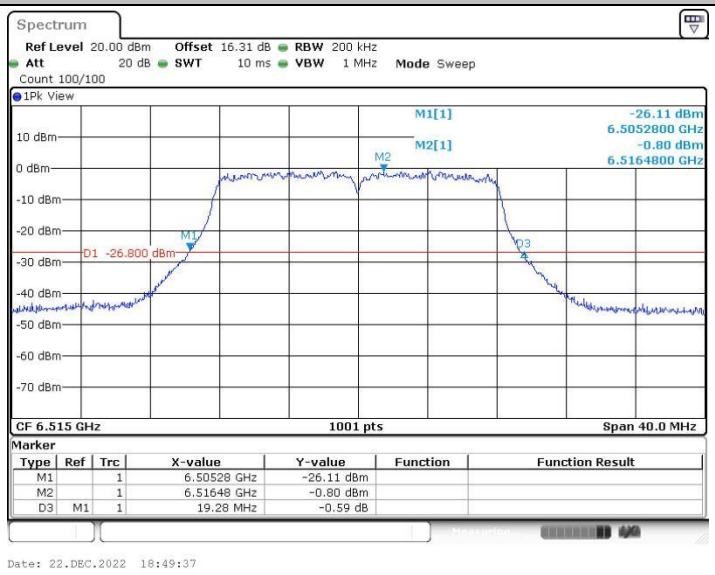

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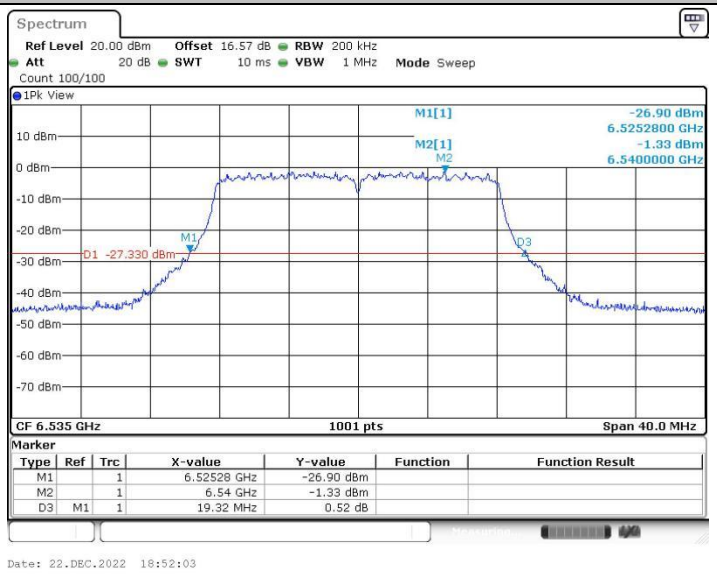

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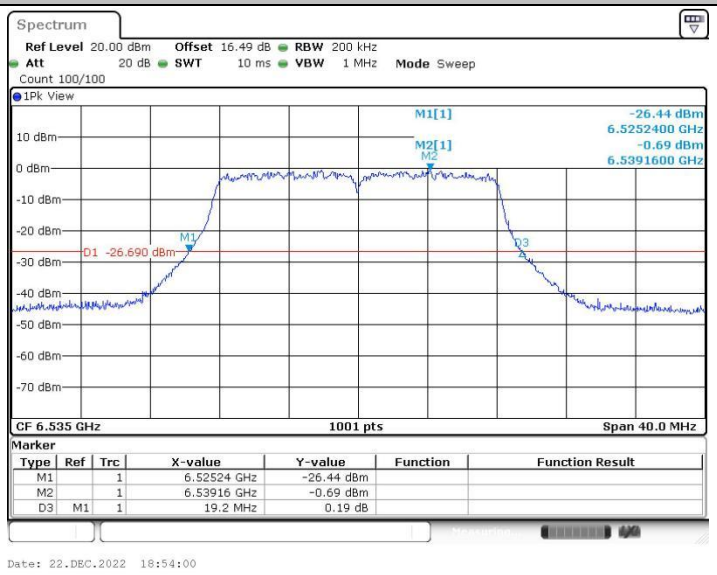

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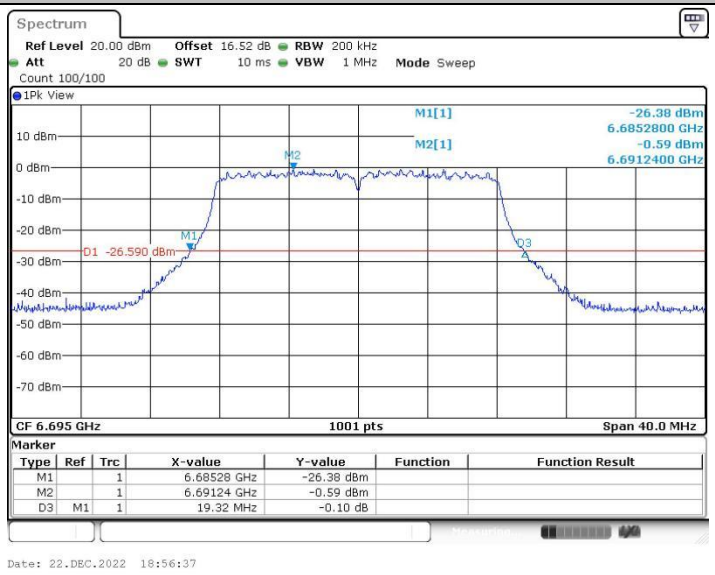

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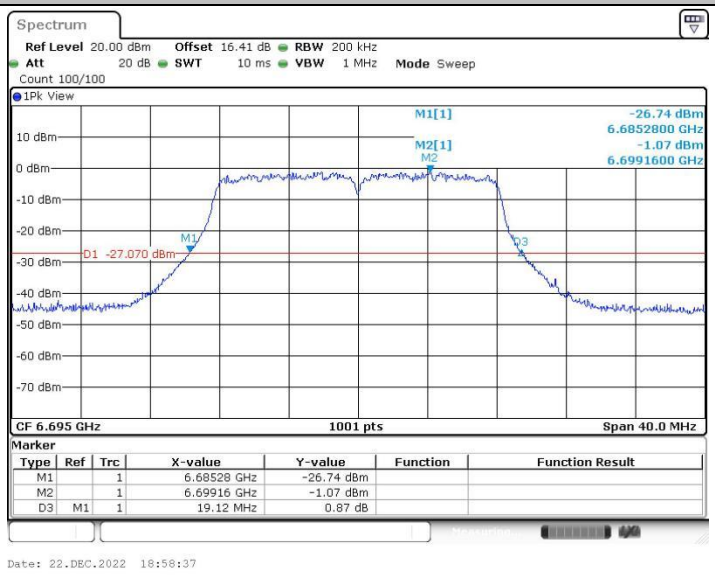

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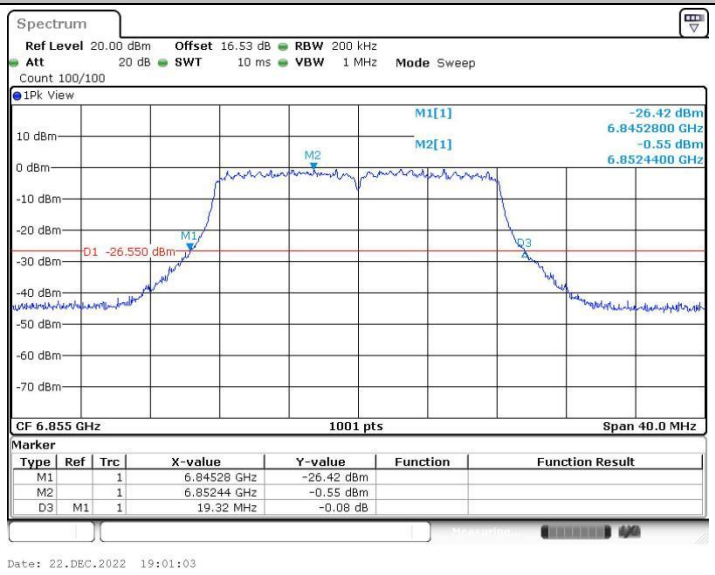

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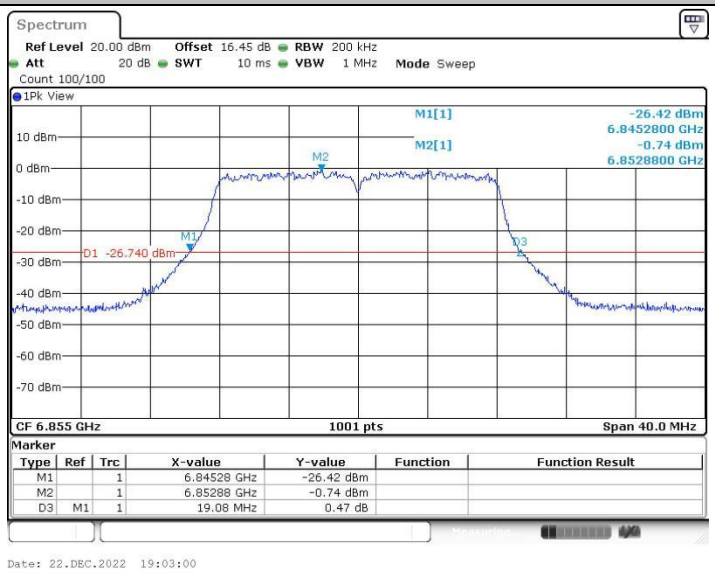

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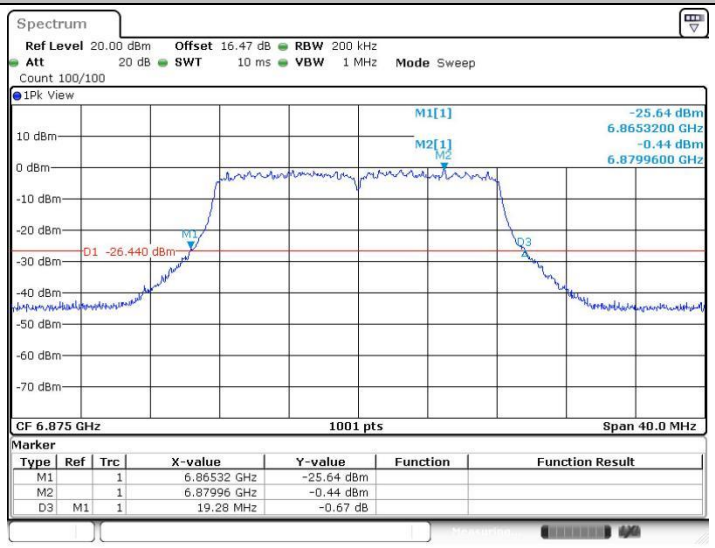

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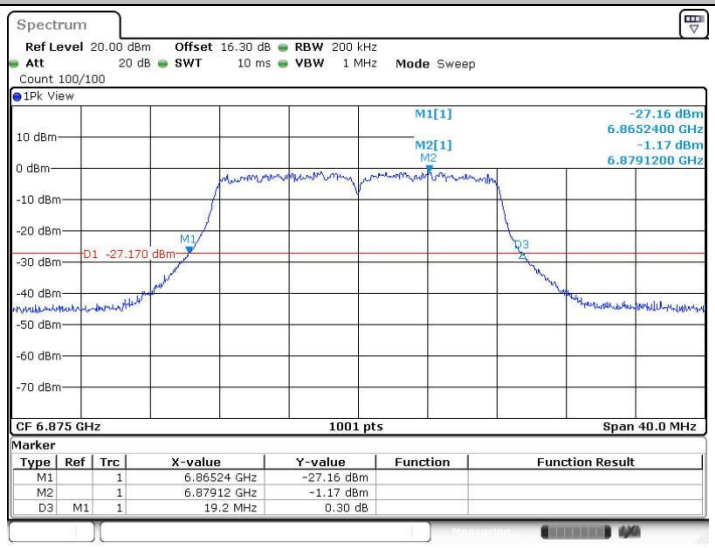

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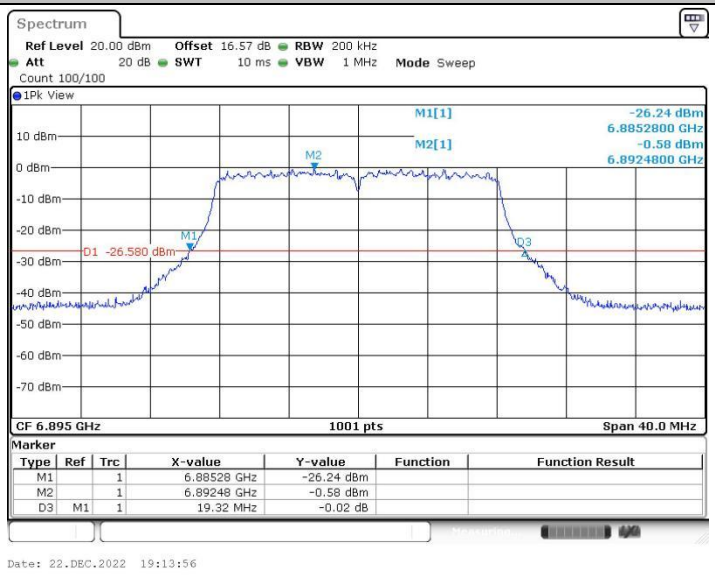

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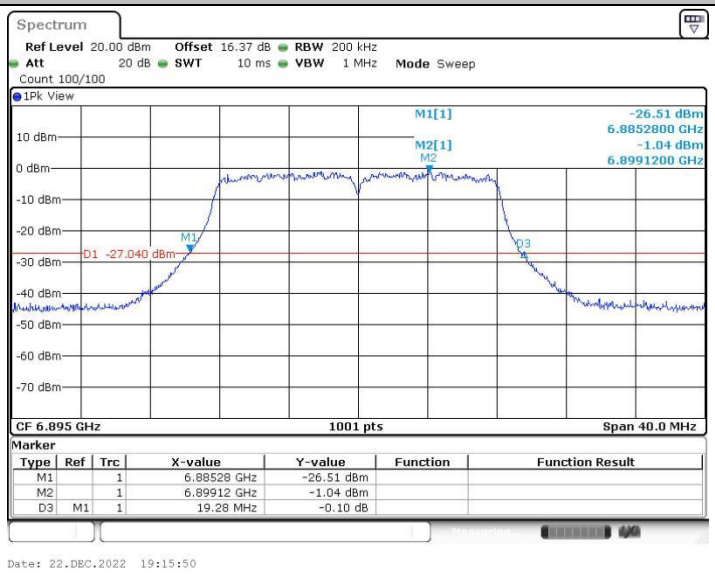

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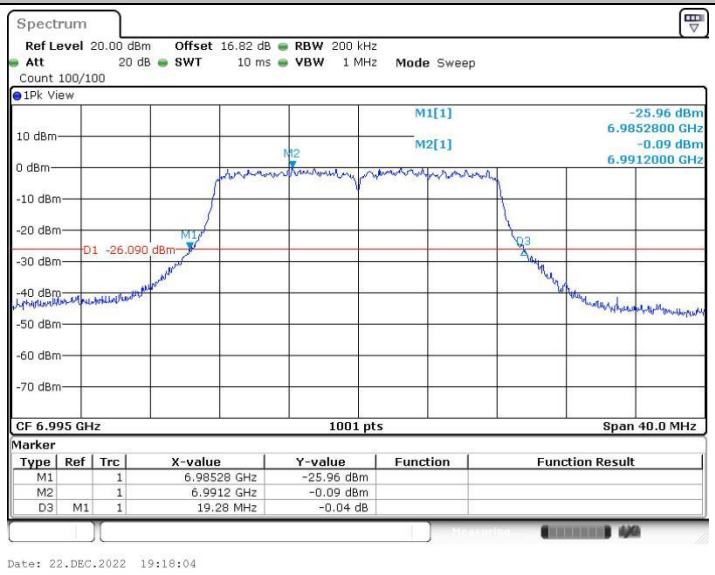

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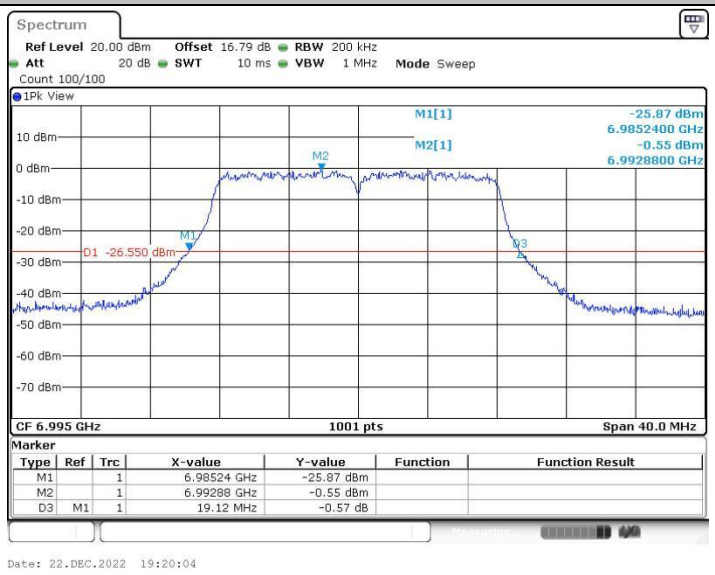

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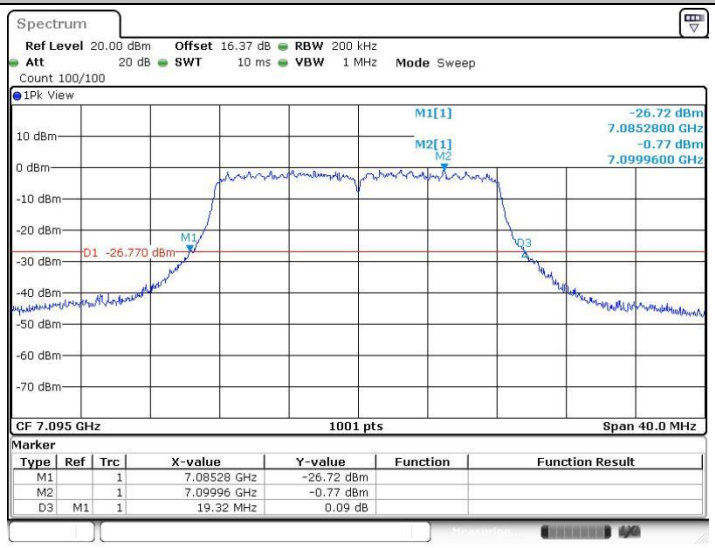

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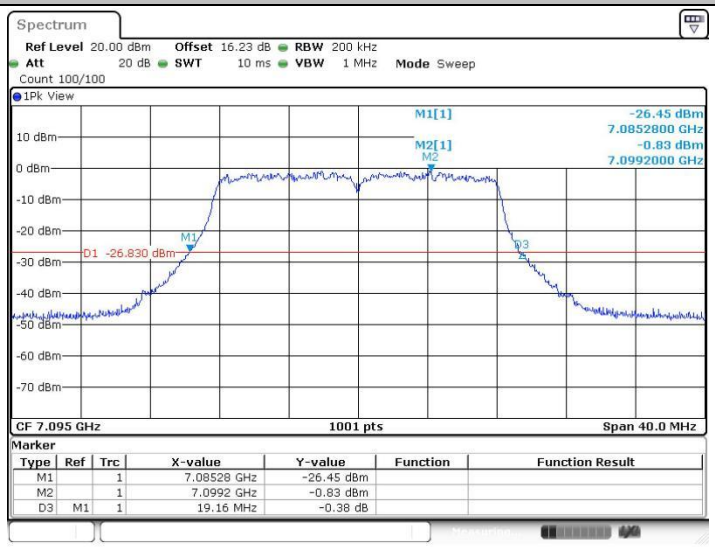

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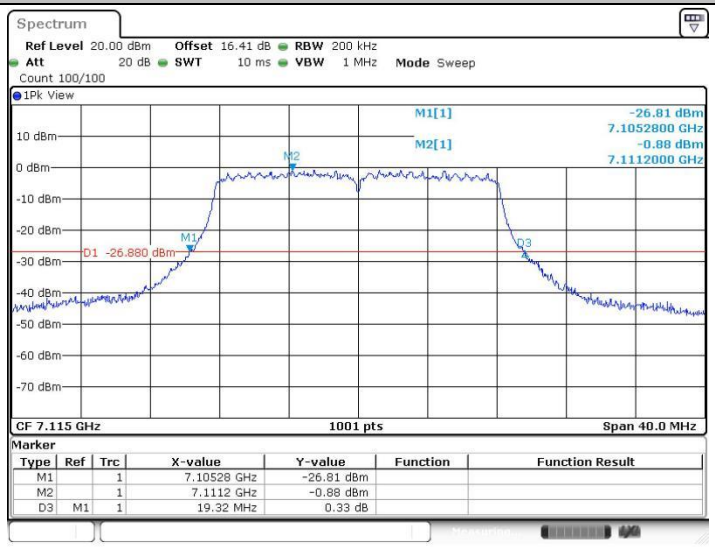

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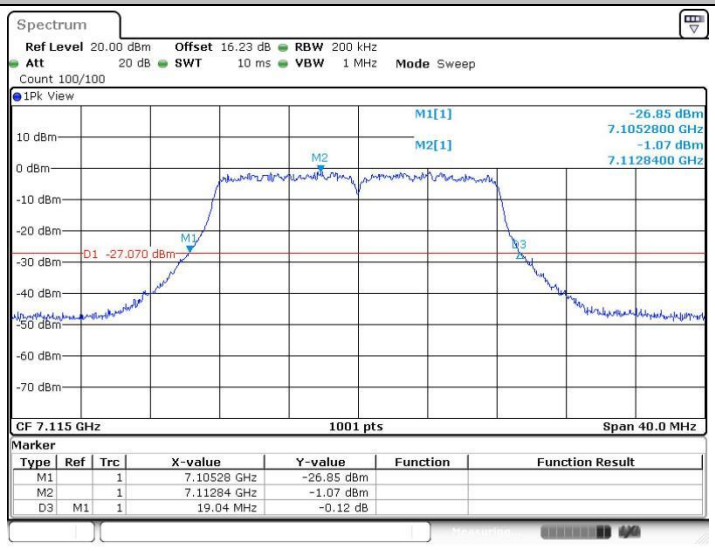

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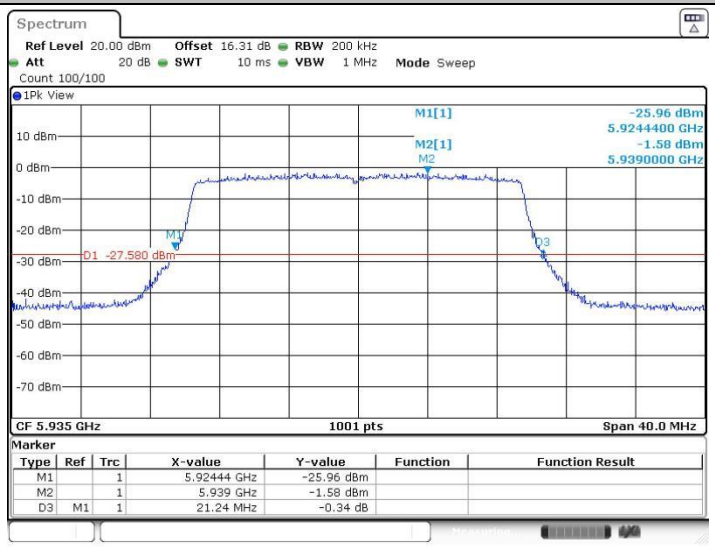

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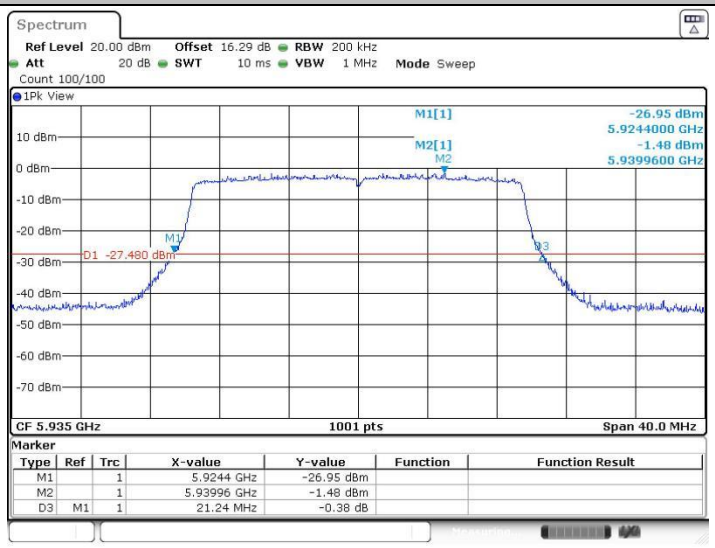

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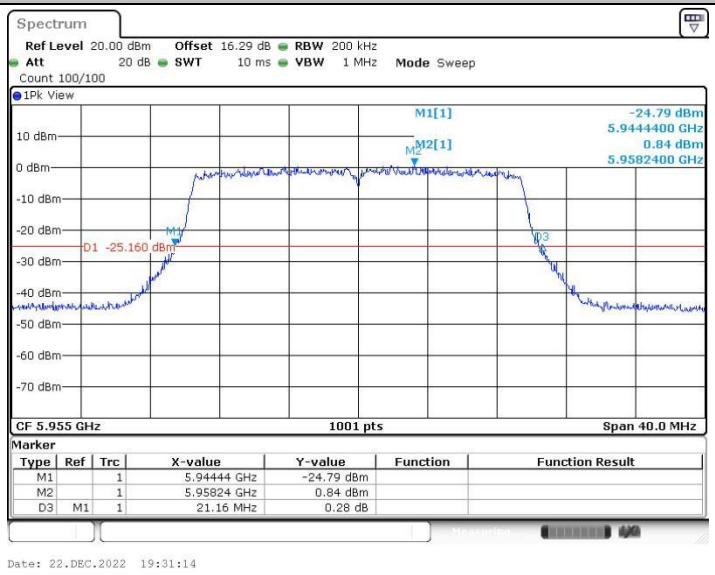

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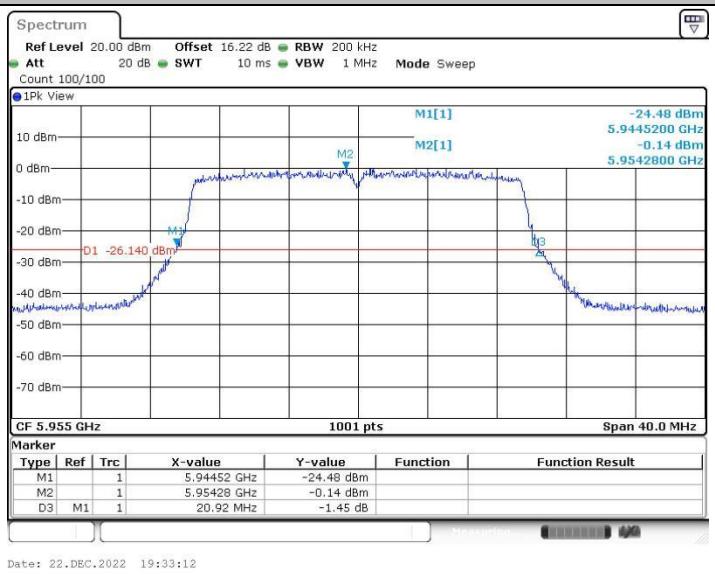

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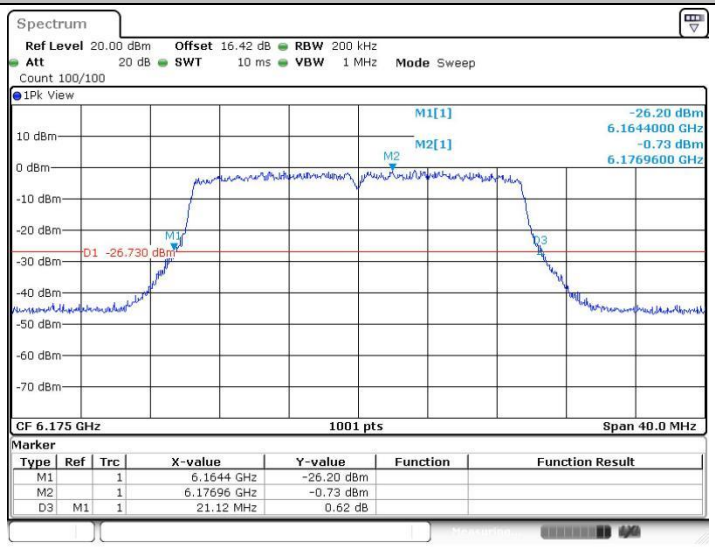

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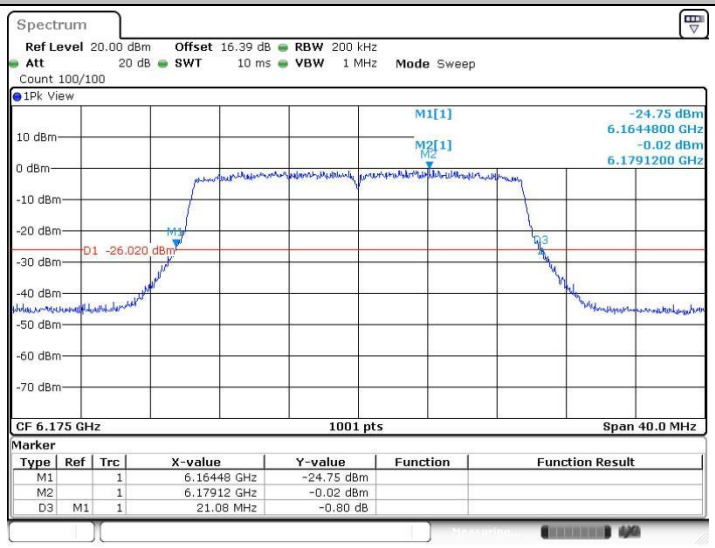

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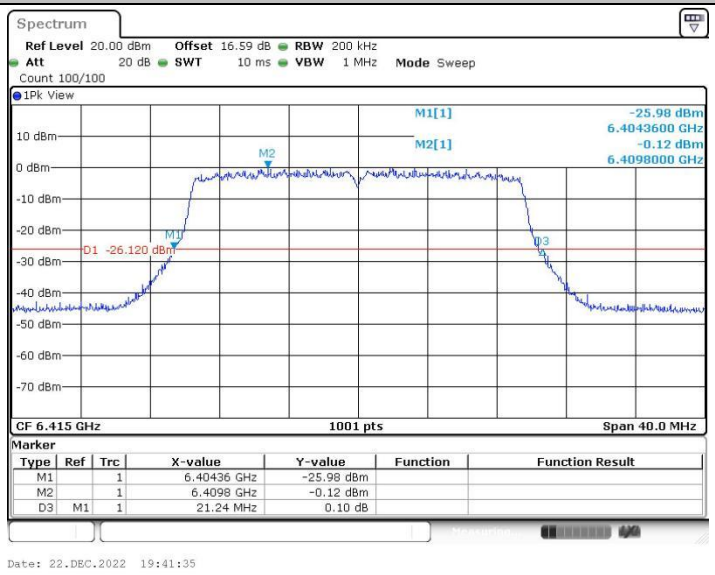

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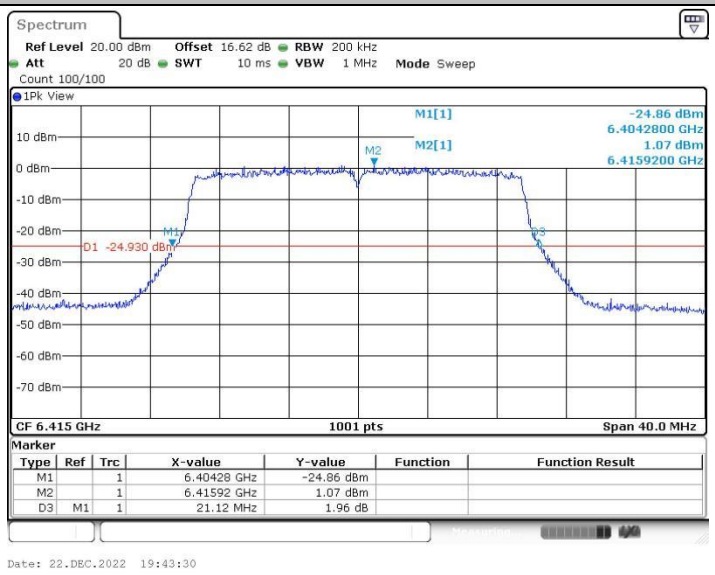

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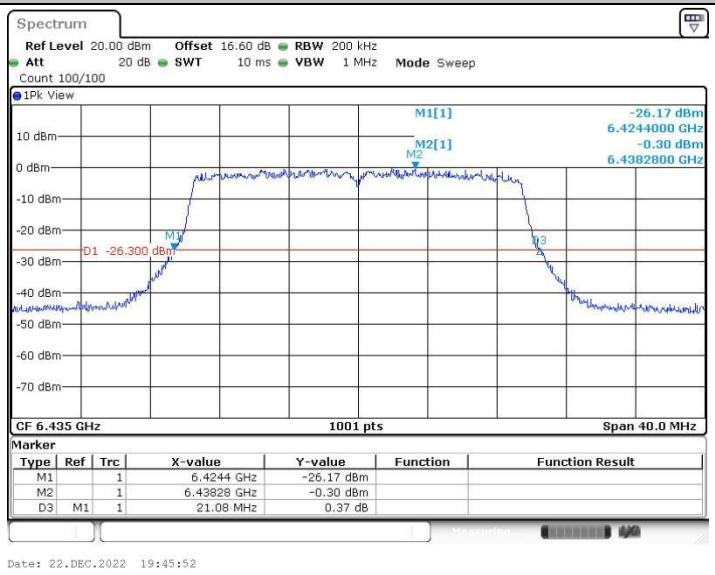

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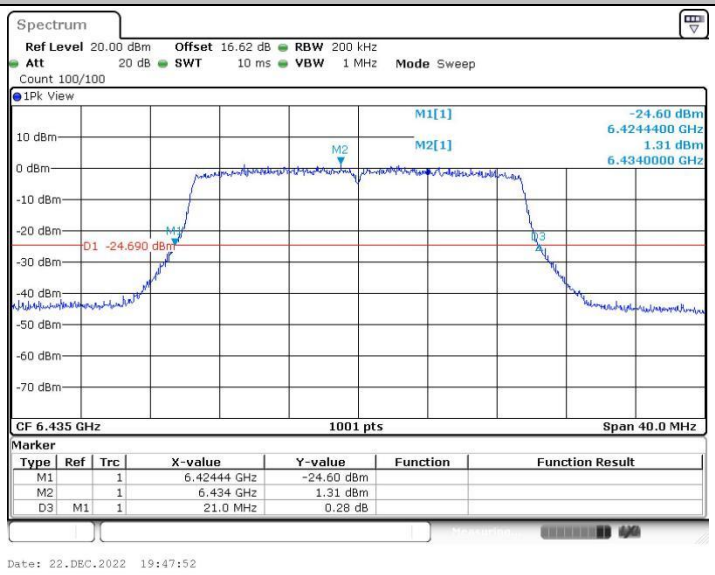

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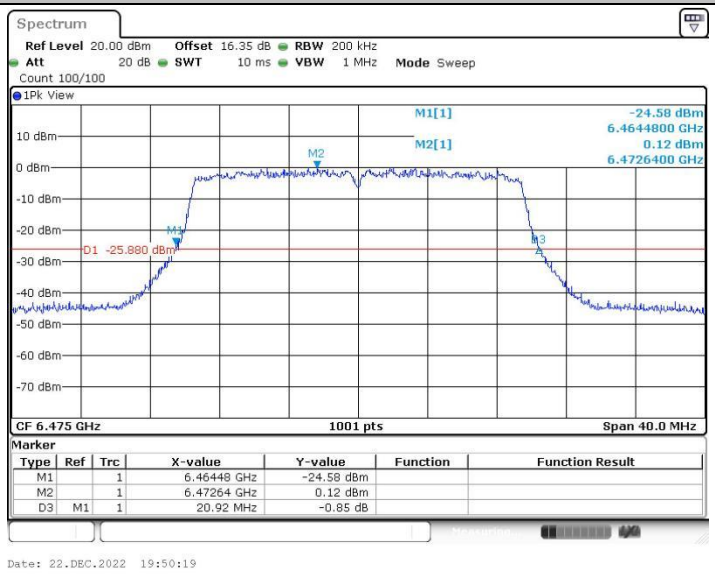

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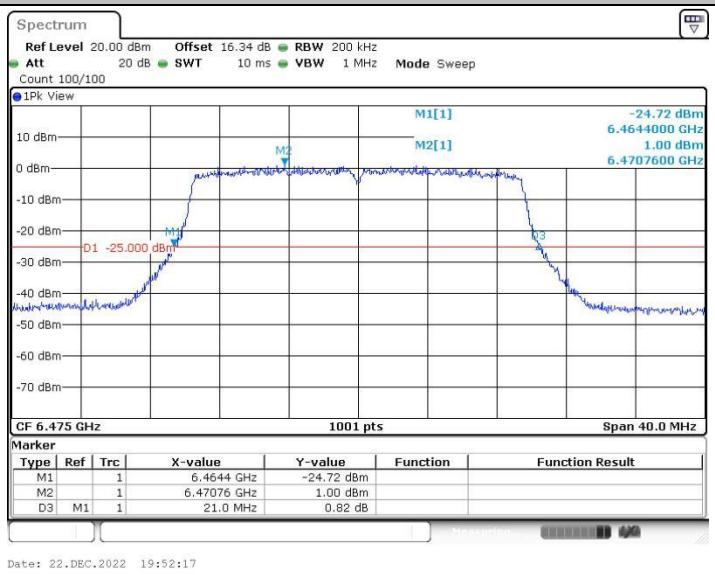

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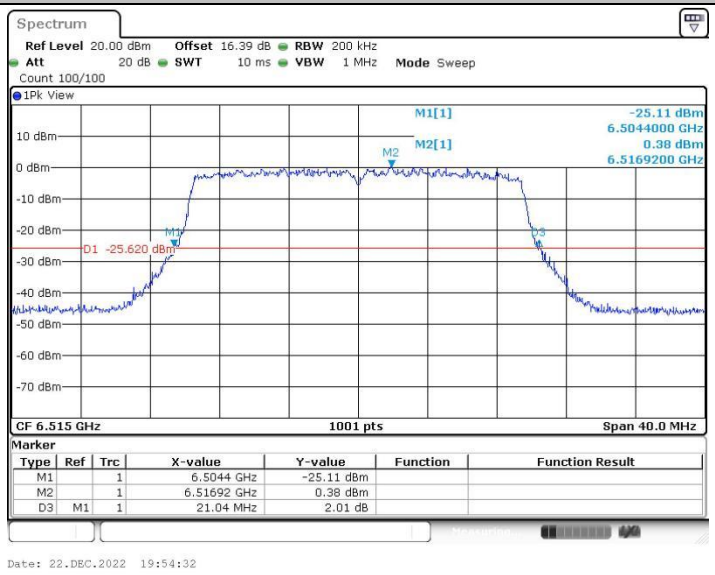

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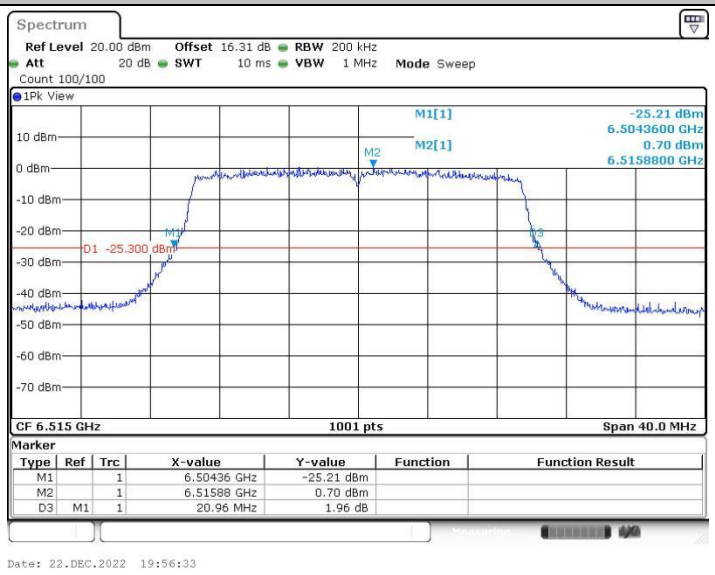

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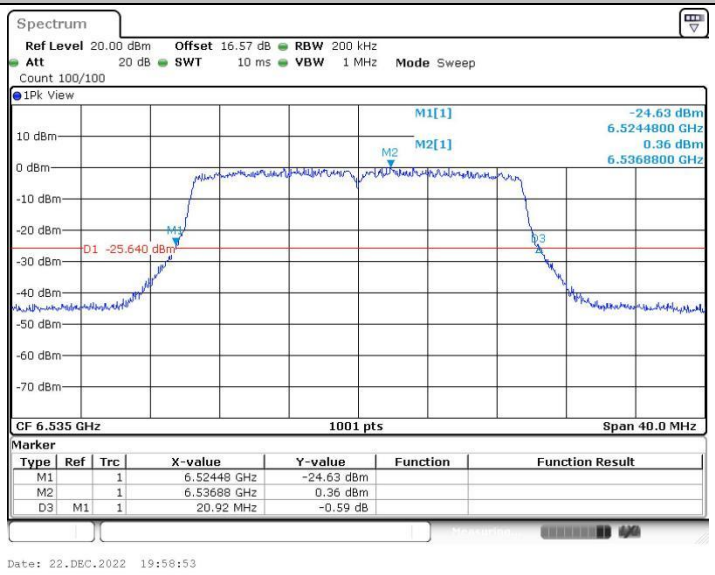

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