FCC RF Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2323-1
FCC ID	:	IHDT56AL8
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DTS) Digital Transmission System
TEST DATE(S)	:	Apr. 07, 2023 ~ May 19, 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.

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)
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People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR340401C	Rev. 01	Initial issue of report	May 31, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges	≤ 20dBc	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.86 dB at 2484.350 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 13.58 dB at 0.187 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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	XT2323-1
FCC ID	IHDT56AL8
IMEI Code	Conducted: 350492020025032/350492020025040 Conduction: 350492020023953/350492020023961 Radiation: 350492020024035/350492020024043
HW Version	DVT2
SW Version	T2TV33.16
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 Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Peak) Output Power to antenna	**<Ant. 4+6>** 802.11b : 26.96 dBm (0.4966 W) 802.11g : 28.97 dBm (0.7889 W) 802.11n HT20 : 28.90 dBm (0.7762 W) 802.11n HT40 : 28.90 dBm (0.7762 W) 802.11ax HE20 : 28.98 dBm (0.7907 W) 802.11ax HE40 : 28.97 dBm (0.7889 W)
99% Occupied Bandwidth	**<Ant.4/6>** 802.11b : 13.227 MHz 802.11g : 16.783 MHz 802.11ax HE20 : 19.101 MHz 802.11ax HE40 : 38.122 MHz
Antenna Type / Gain	<Ant 4>: IFA Antenna with gain -6.60 dBi <Ant 6>: IFA Antenna with gain -6.80 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)

Note:

1. The device supports MIMO CDD mode only.
2. For 802.11n & 11ax mode, the whole testing have assessed only 802.11ax mode by referring to the higher output power.
3. 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) test output power/PSD, the full RU PSD > partial RU PSD, thus full RU perform full test to cover partial RU, partial RU verify Bandedge and Spurious.
4. The device does not support 802.11ax channel puncture mode.
5. The EUT has two working states, flip open state and flip close state, RSE pretest the two states and choose the worst flip open state to perform full test.

1.5 Modification of EUT

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

1.6 Specification of Accessory

Accessories Information				
AC Adapter 1(US)	**Brand Name**	Motorola(Acbel)	**Model Name**	MC-331
AC Adapter 1(EU)	**Brand Name**	Motorola(Acbel)	**Model Name**	MC-332
AC Adapter 1(UK)	**Brand Name**	Motorola(Acbel)	**Model Name**	MC-333
AC Adapter 2(US)	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-331
AC Adapter 2(EU)	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-332
AC Adapter 2(AU)	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-335
AC Adapter 2(AR)	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-336
AC Adapter 2(BR)	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-337
AC Adapter 3(US)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-331
AC Adapter 3(EU)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-332
AC Adapter 3(UK)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-333
AC Adapter 3(IN)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-334
AC Adapter 3(AU)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-335
AC Adapter 3(AR)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-336
AC Adapter 3(BR)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-337
AC Adapter 3(CHILE)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-339
AC Adapter 3(KR)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-330
AC Adapter 4(BR)	**Brand Name**	Motorola(Cliptech)	**Model Name**	MC-337
Base Battery	**Brand Name**	Motorola (ATL)	**Model Name**	PM29
Flip Battery	**Brand Name**	Motorola (ATL)	**Model Name**	PV11
USB Cable 1	**Brand Name**	Motorola(Saibao)	**Model Name**	SC18D22297
USB Cable 2	**Brand Name**	Motorola(Cabletech)	**Model Name**	SC18D22298
USB Cable 3	**Brand Name**	Motorola(Luxshare)	**Model Name**	SC18D22299

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		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO01-KS 03CH06-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH06-KS	AUDIX	E3	6.2009-8-24al
2.	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:

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- 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 flip open and close state in three orthogonal panels X, Y, Z. The worst cases (Z plane with flip open) were recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-

2.2 Test Mode

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

MIMO Antenna

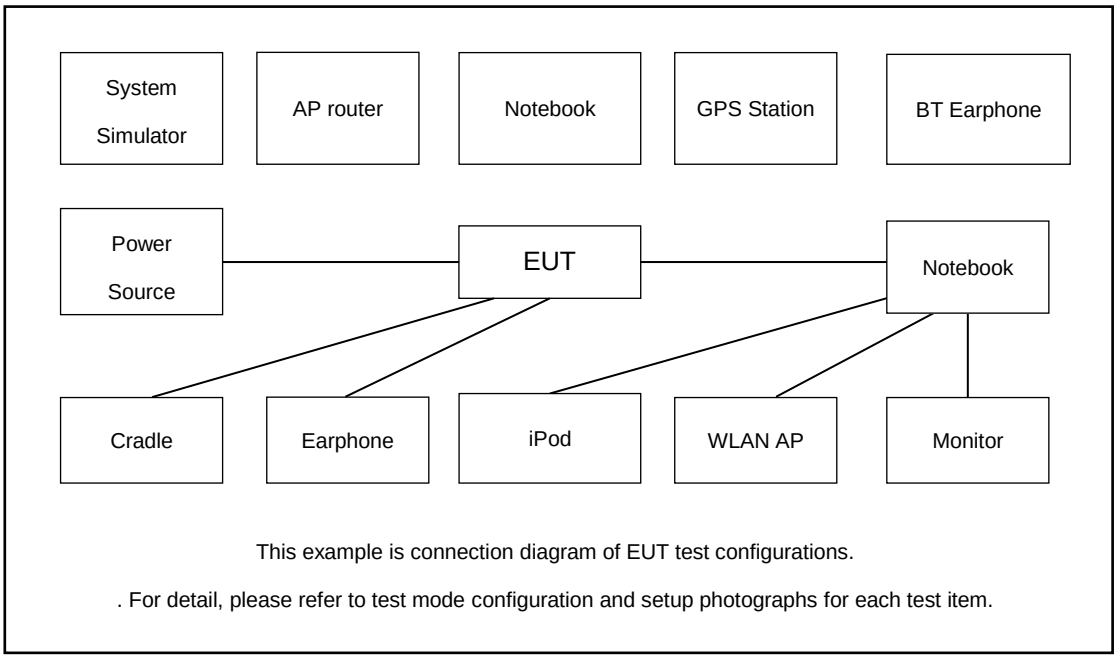
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11ax HE20	MCS0
802.11ax HE40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :GSM 850 Idle + Bluetooth Link + WLAN Link (2.4G) + USB Cable 3 (Charging from Adapter 3)

Remark:

1. For RSE and AC conducted Emision, the tests were performed with Adapter 3 and USB Cable 3 from the worst mode of Part 15B report.
2. The EUT has two working states, flip open state and flip close state, RSE pretest the two states and choose the worst flip open state to perform full test.

2.3 Connection Diagram of Test System



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	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	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	V130-15IKB005	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
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 continuous 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 6.2 dB

Offset(dB) = RF cable loss(dB)

= 6.2 (dB)

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) = 3MHz.
6. Measure and record the results in the test report.

3.1.4 Test Setup

3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

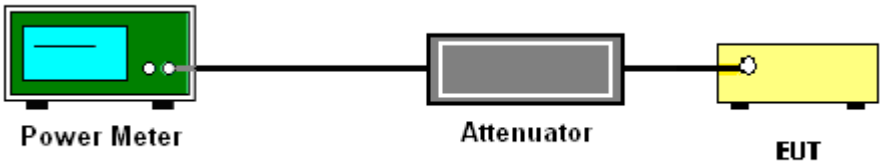
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

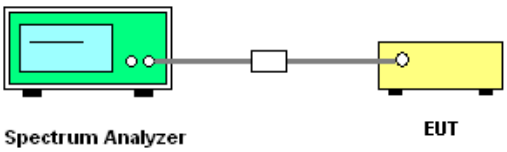
   If measurements performed using method (2) plus 10 log (N) exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

   Method (1): 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 (2): Measure and add 10 log (N) dB, where N is the number of outputs. (N=2)

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

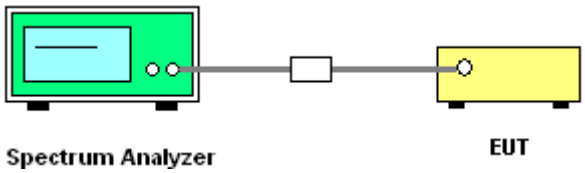
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.5.2 Measuring Instruments

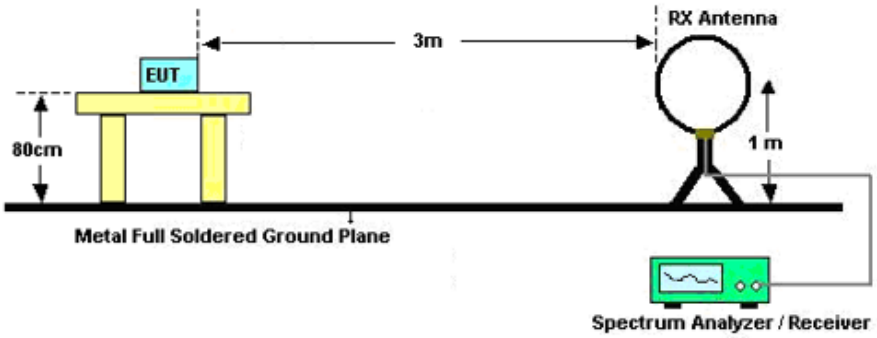
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

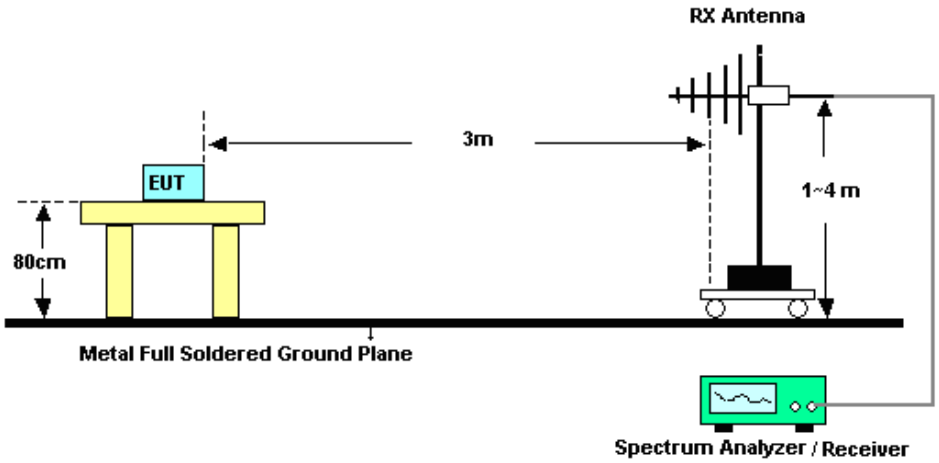
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. 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.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
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 peak 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.
8. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - 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.

3.5.4 Test Setup

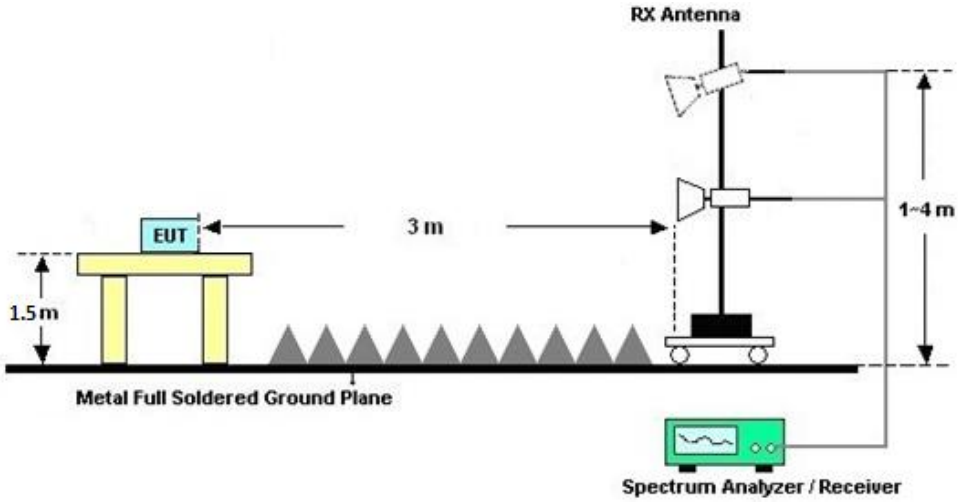
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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 a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

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 (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.

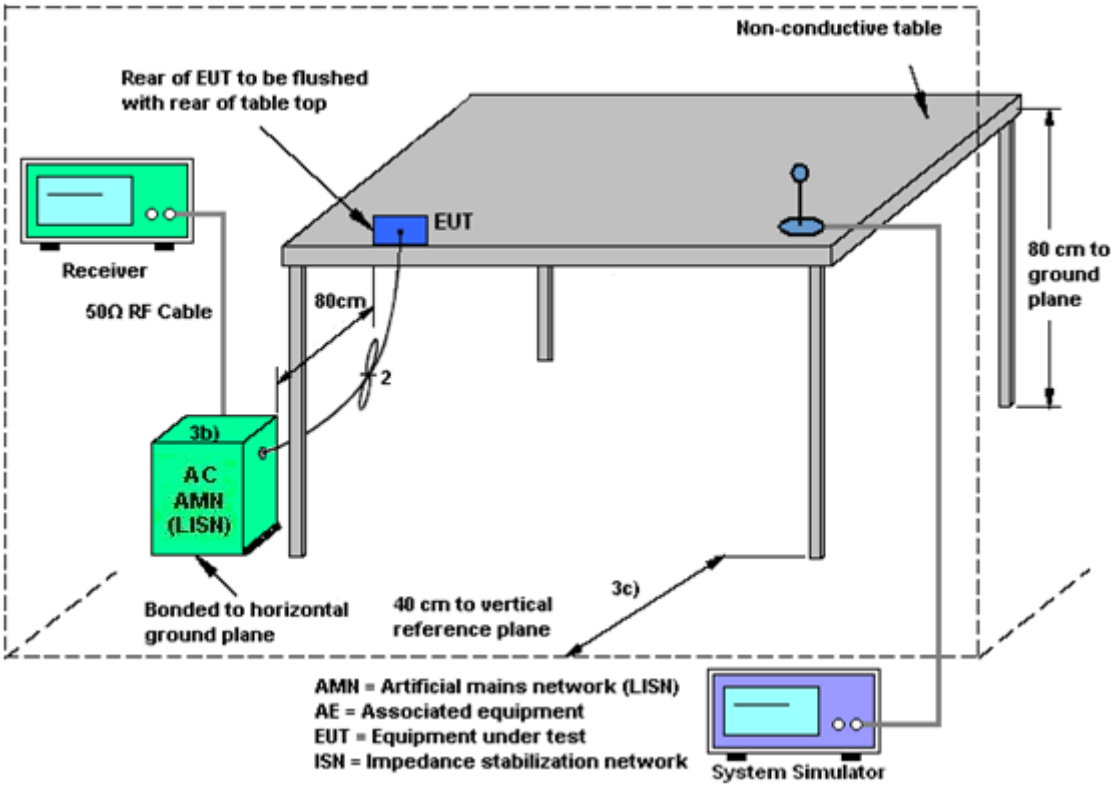
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 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, and it 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 (IF bandwidth = 9kHz) 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

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(N_{ANT}/N_{SS}=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

<CDD Modes>

	Ant. 4 (dBi)	Ant. 6 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
2.4 GHz	-6.60	-6.80	-6.60	-3.69	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Apr. 14, 2023 ~May 15, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Apr. 14, 2023 ~May 15, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Apr. 14, 2023 ~May 15, 2023	Jan. 04, 2024	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 13, 2022	Apr. 07, 2023 ~May 19, 2023	Oct. 12, 2023	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz-44GHz	Oct. 13, 2022	Apr. 07, 2023 ~May 19, 2023	Oct. 12, 2023	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Apr. 07, 2023 ~May 19, 2023	Oct. 15, 2023	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	May 24, 2022	Apr. 07, 2023 ~May 19, 2023	May 23, 2023	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 06, 2023	Apr. 07, 2023 ~May 19, 2023	Apr. 05, 2024	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 08, 2023	Apr. 07, 2023 ~May 19, 2023	Jan. 07, 2024	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 11, 2022	Apr. 07, 2023 ~May 19, 2023	Jul. 10, 2023	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2082395	1Ghz-18Ghz	Jan. 05, 2023	Apr. 07, 2023 ~May 19, 2023	Jan. 04, 2024	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270319	500MHz~26.5GHz	Oct. 12, 2022	Apr. 07, 2023 ~May 19, 2023	Oct. 12, 2023	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2023	Apr. 07, 2023 ~May 19, 2023	Jan. 04, 2024	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Apr. 07, 2023 ~May 19, 2023	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 07, 2023 ~May 19, 2023	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Apr. 07, 2023 ~May 19, 2023	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	May 09, 2023	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	May 09, 2023	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	May 09, 2023	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	May 09, 2023	Oct. 11, 2023	Conduction (CO01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

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 Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.94dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.3dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.0dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.3dB**

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

Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Jiang Jun	Temperature:	21~25	°C
Test Date:	2023.4.14/2023.5.15	Relative Humidity:	51~54	%

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant4	Ant6	SUM	Ant4	Ant6	Ant4	Ant6	Ant4	Ant6	Ant4	Ant6	
11b	1Mbps	2	1	2412	24.23	23.66	26.96	30.00		-6.60		20.36		36.00		Pass
11b	1Mbps	2	6	2437	24.05	23.45	26.77	30.00		-6.60		20.17		36.00		Pass
11b	1Mbps	2	11	2462	24.10	23.58	26.86	30.00		-6.60		20.26		36.00		Pass
11g	6Mbps	2	1	2412	25.75	26.16	28.97	30.00		-6.60		22.37		36.00		Pass
11g	6Mbps	2	6	2437	25.52	25.45	28.50	30.00		-6.60		21.90		36.00		Pass
11g	6Mbps	2	11	2462	25.53	25.51	28.53	30.00		-6.60		21.93		36.00		Pass
HT20	MCS0	2	1	2412	25.72	26.06	28.90	30.00		-6.60		22.30		36.00		Pass
HT20	MCS0	2	6	2437	25.78	25.69	28.75	30.00		-6.60		22.15		36.00		Pass
HT20	MCS0	2	11	2462	25.56	25.65	28.62	30.00		-6.60		22.02		36.00		Pass
HT40	MCS0	2	3	2422	25.70	26.07	28.90	30.00		-6.60		22.30		36.00		Pass
HT40	MCS0	2	6	2437	25.61	25.87	28.75	30.00		-6.60		22.15		36.00		Pass
HT40	MCS0	2	9	2452	25.01	25.08	28.06	30.00		-6.60		21.46		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant4	Ant6	SUM	Ant4	Ant6	Ant4	Ant6	Ant4	Ant6	Ant4	Ant6	
HE20	MCS0	2	1	2412	Full	25.79	26.14	28.98	30.00		-6.60		22.38		36.00		Pass
HE20	MCS0	2	1	2412	26/0	19.05	19.47	22.28	30.00		-6.60		15.68		36.00		Pass
HE20	MCS0	2	1	2412	52/37	22.06	22.72	25.41	30.00		-6.60		18.81		36.00		Pass
HE20	MCS0	2	1	2412	106/53	23.78	24.28	27.05	30.00		-6.60		20.45		36.00		Pass
HE20	MCS0	2	6	2437	Full	25.81	25.76	28.80	30.00		-6.60		22.20		36.00		Pass
HE20	MCS0	2	6	2437	26/0	19.32	19.66	22.50	30.00		-6.60		15.90		36.00		Pass
HE20	MCS0	2	6	2437	52/37	21.78	22.41	25.12	30.00		-6.60		18.52		36.00		Pass
HE20	MCS0	2	6	2437	106/53	23.47	24.22	26.87	30.00		-6.60		20.27		36.00		Pass
HE20	MCS0	2	11	2462	Full	25.63	25.75	28.70	30.00		-6.60		22.10		36.00		Pass
HE20	MCS0	2	11	2462	26/8	19.83	19.88	22.87	30.00		-6.60		16.27		36.00		Pass
HE20	MCS0	2	11	2462	52/40	21.76	22.53	25.17	30.00		-6.60		18.57		36.00		Pass
HE20	MCS0	2	11	2462	106/54	23.69	23.76	26.74	30.00		-6.60		20.14		36.00		Pass
HE40	MCS0	2	3	2422	Full	25.76	26.15	28.97	30.00		-6.60		22.37		36.00		Pass
HE40	MCS0	2	6	2437	Full	25.67	25.94	28.82	30.00		-6.60		22.22		36.00		Pass
HE40	MCS0	2	9	2452	Full	25.02	25.15	28.10	30.00		-6.60		21.50		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	Ant4	Ant6	SUM	Ant4	Ant6	Ant4	Ant6	Ant4	Ant6	Ant4	Ant6	
11b	1Mbps	2	1	2412	0.00	0.00	21.68	21.13	24.42	30.00		-6.60		17.82		36.00		Pass
11b	1Mbps	2	6	2437	0.00	0.00	21.58	21.06	24.34	30.00		-6.60		17.74		36.00		Pass
11b	1Mbps	2	11	2462	0.00	0.00	21.57	21.11	24.36	30.00		-6.60		17.76		36.00		Pass
11g	6Mbps	2	1	2412	0.03	0.03	18.45	18.39	21.43	30.00		-6.60		14.83		36.00		Pass
11g	6Mbps	2	6	2437	0.03	0.03	18.44	18.21	21.34	30.00		-6.60		14.74		36.00		Pass
11g	6Mbps	2	11	2462	0.03	0.03	18.46	18.34	21.41	30.00		-6.60		14.81		36.00		Pass
HT20	MCS0	2	1	2412	0.00	0.00	18.29	18.21	21.26	30.00		-6.60		14.66		36.00		Pass
HT20	MCS0	2	6	2437	0.00	0.00	18.16	18.13	21.16	30.00		-6.60		14.56		36.00		Pass
HT20	MCS0	2	11	2462	0.00	0.00	18.25	18.24	21.26	30.00		-6.60		14.66		36.00		Pass
HT40	MCS0	2	3	2422	0.00	0.00	18.32	18.21	21.28	30.00		-6.60		14.68		36.00		Pass
HT40	MCS0	2	6	2437	0.00	0.00	18.25	18.19	21.23	30.00		-6.60		14.63		36.00		Pass
HT40	MCS0	2	9	2452	0.00	0.00	17.30	17.19	20.26	30.00		-6.60		13.66		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																		
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant4	Ant6	Ant4	Ant6	SUM	Ant4	Ant6	Ant4	Ant6	Ant4	Ant6	Ant4	Ant6	
HE20	MCS0	2	1	2412	Full	0.00	0.00	18.38	18.30	21.35	30.00		-6.60		14.75		36.00		Pass
HE20	MCS0	2	1	2412	26/0	0.00	0.00	8.41	9.08	11.77	30.00		-6.60		5.17		36.00		Pass
HE20	MCS0	2	1	2412	52/37	0.00	0.00	11.03	11.82	14.45	30.00		-6.60		7.85		36.00		Pass
HE20	MCS0	2	1	2412	106/53	0.00	0.00	13.44	14.07	16.78	30.00		-6.60		10.18		36.00		Pass
HE20	MCS0	2	6	2437	Full	0.00	0.00	18.26	18.21	21.25	30.00		-6.60		14.65		36.00		Pass
HE20	MCS0	2	6	2437	26/0	0.00	0.00	8.86	8.24	11.57	30.00		-6.60		4.97		36.00		Pass
HE20	MCS0	2	6	2437	52/37	0.00	0.00	11.35	10.78	14.08	30.00		-6.60		7.48		36.00		Pass
HE20	MCS0	2	6	2437	106/53	0.00	0.00	13.54	13.19	16.38	30.00		-6.60		9.78		36.00		Pass
HE20	MCS0	2	11	2462	Full	0.00	0.00	18.37	18.32	21.36	30.00		-6.60		14.76		36.00		Pass
HE20	MCS0	2	11	2462	26/8	0.00	0.00	9.24	9.03	12.15	30.00		-6.60		5.55		36.00		Pass
HE20	MCS0	2	11	2462	52/40	0.00	0.00	11.21	11.67	14.46	30.00		-6.60		7.86		36.00		Pass
HE20	MCS0	2	11	2462	106/54	0.00	0.00	13.78	13.68	16.74	30.00		-6.60		10.14		36.00		Pass
HE40	MCS0	2	3	2422	Full	0.00	0.00	18.41	18.30	21.37	30.00		-6.60		14.77		36.00		Pass
HE40	MCS0	2	6	2437	Full	0.00	0.00	18.32	18.27	21.31	30.00		-6.60		14.71		36.00		Pass
HE40	MCS0	2	9	2452	Full	0.00	0.00	17.33	17.21	20.28	30.00		-6.60		13.68		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

Ambient Condition: 25 ℃, 45 %RH	
Test Date: 2023.4.14~2023.5.15	**Test Engineer:** Jiang Jun

DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant4	2412	7.56	2408.00	2415.56	0.5	PASS
	Ant6	2412	8.00	2408.00	2416.00	0.5	PASS
	Ant4	2437	8.52	2433.00	2441.52	0.5	PASS
	Ant6	2437	8.04	2433.00	2441.04	0.5	PASS
	Ant4	2462	7.60	2458.44	2466.04	0.5	PASS
	Ant6	2462	7.12	2458.44	2465.56	0.5	PASS
11G-CDD	Ant4	2412	16.28	2403.88	2420.16	0.5	PASS
	Ant6	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant4	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant6	2437	16.36	2428.84	2445.20	0.5	PASS
	Ant4	2462	16.32	2453.84	2470.16	0.5	PASS
	Ant6	2462	16.32	2453.84	2470.16	0.5	PASS
11AX20MIMO	Ant4	2412	18.76	2402.68	2421.44	0.5	PASS
	Ant6	2412	18.72	2402.60	2421.32	0.5	PASS
	Ant4	2437	18.96	2427.52	2446.48	0.5	PASS
	Ant6	2437	18.96	2427.56	2446.52	0.5	PASS
	Ant4	2462	18.52	2452.68	2471.20	0.5	PASS
	Ant6	2462	18.76	2452.52	2471.28	0.5	PASS
11AX40MIMO	Ant4	2422	37.84	2403.04	2440.88	0.5	PASS
	Ant6	2422	37.44	2403.04	2440.48	0.5	PASS
	Ant4	2437	38.00	2418.04	2456.04	0.5	PASS
	Ant6	2437	38.00	2417.96	2455.96	0.5	PASS
	Ant4	2452	37.76	2433.04	2470.80	0.5	PASS
	Ant6	2452	37.04	2433.76	2470.80	0.5	PASS

Test Graphs

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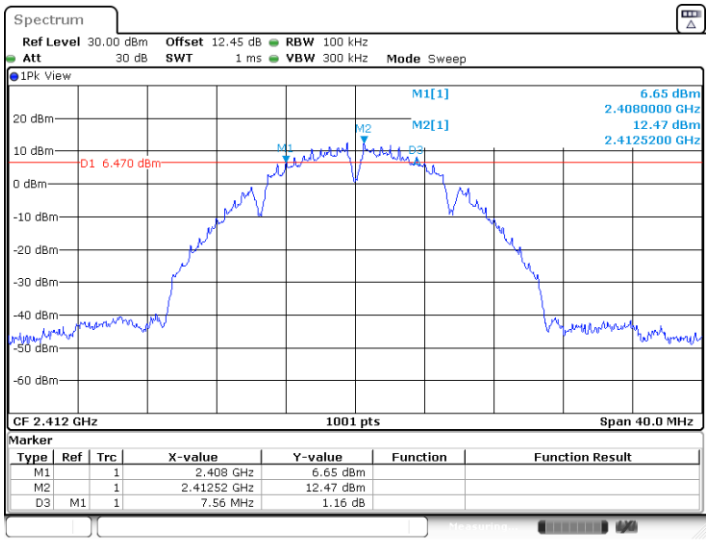

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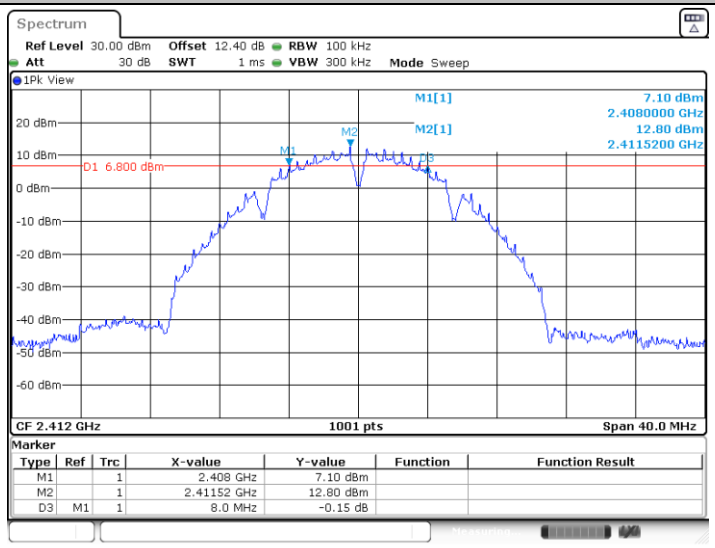

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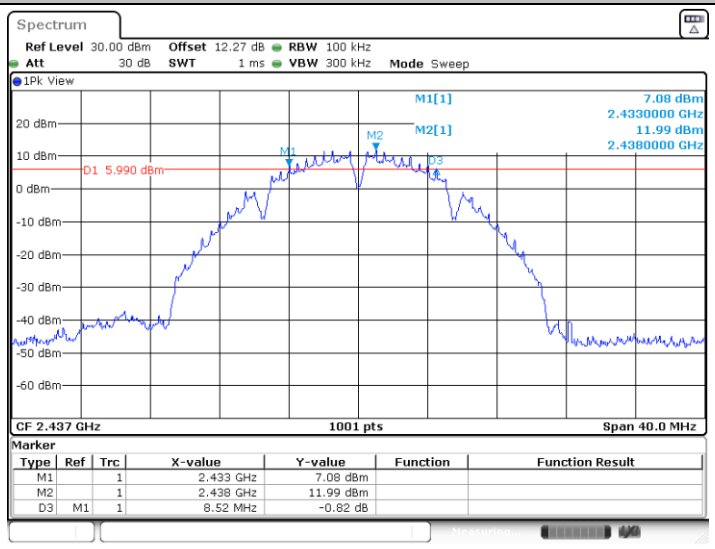

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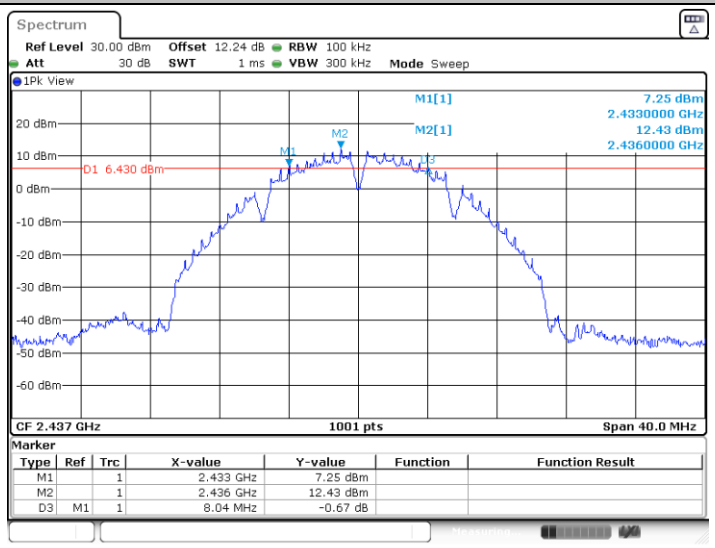

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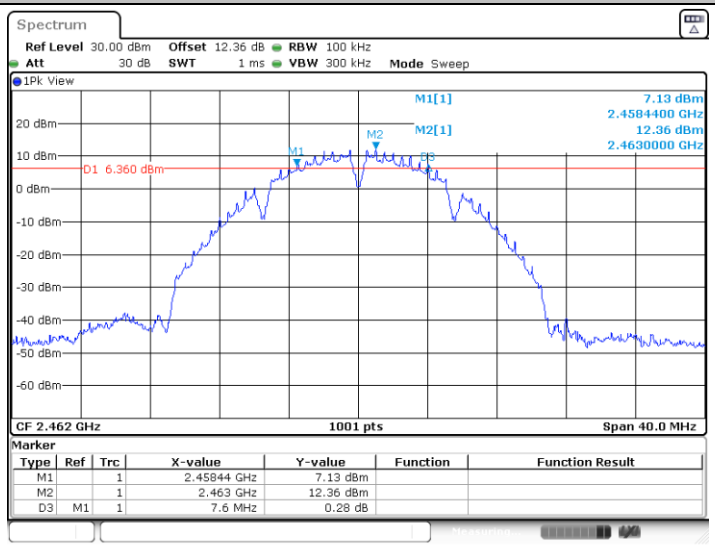

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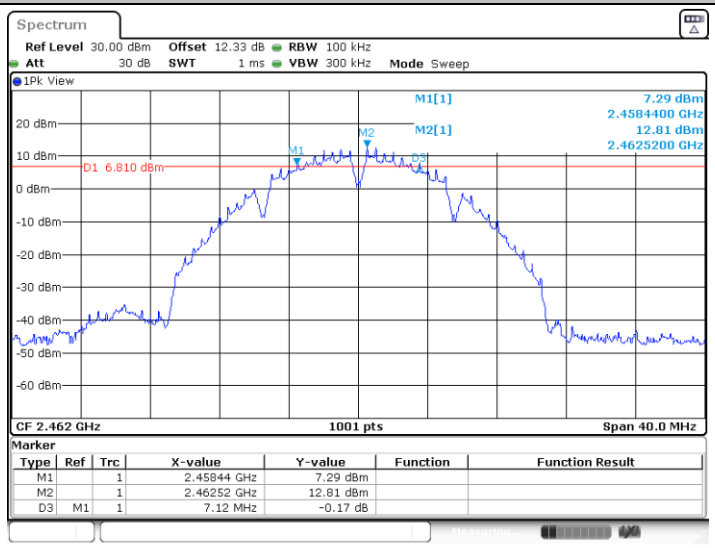

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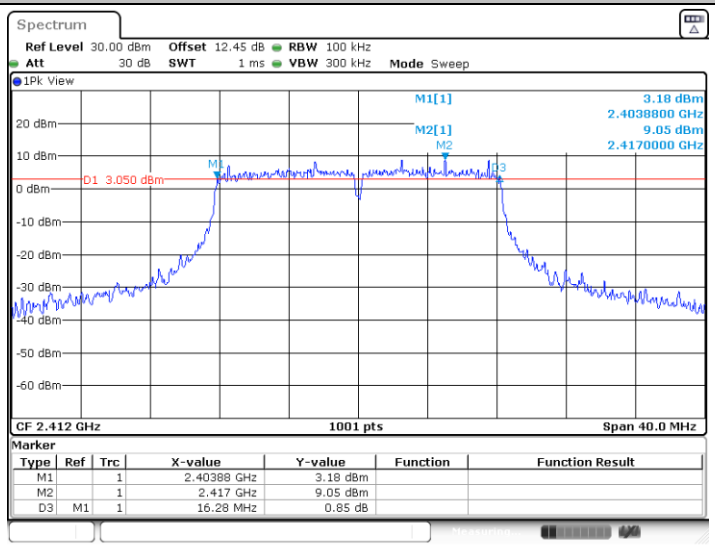

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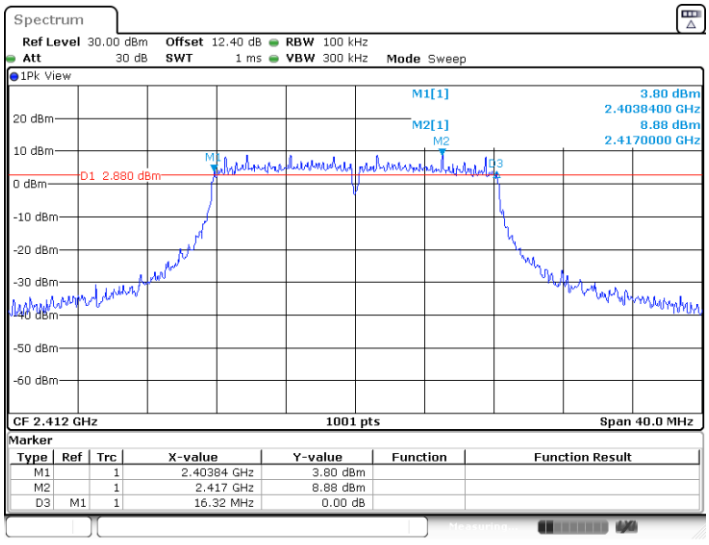

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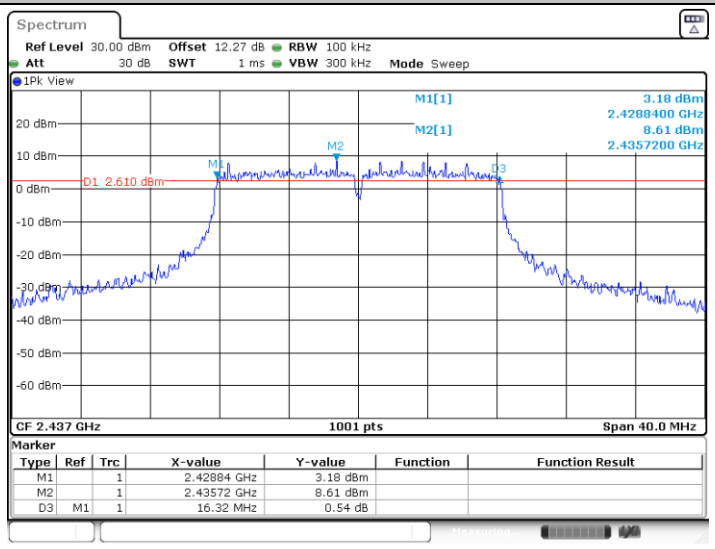

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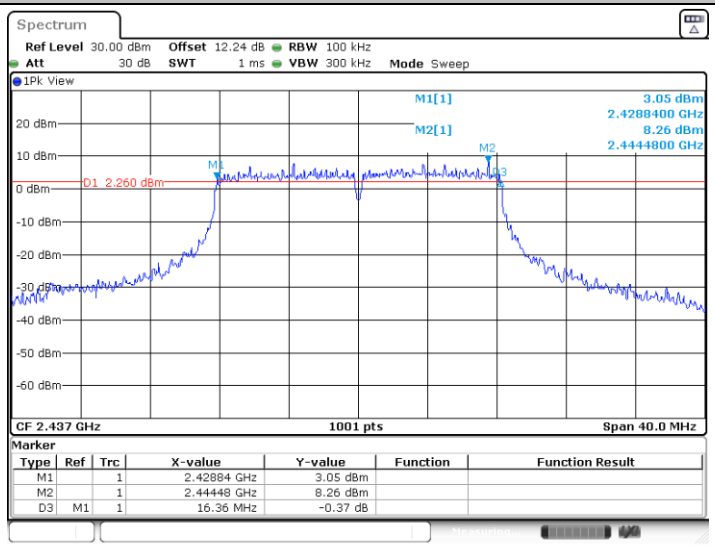

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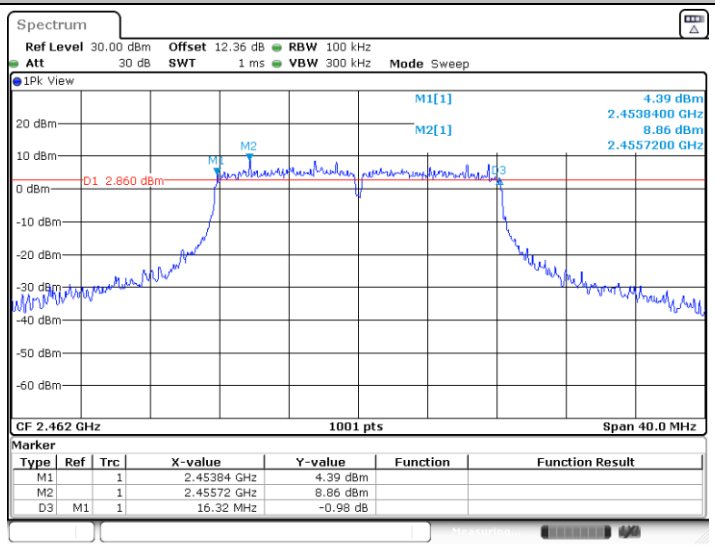

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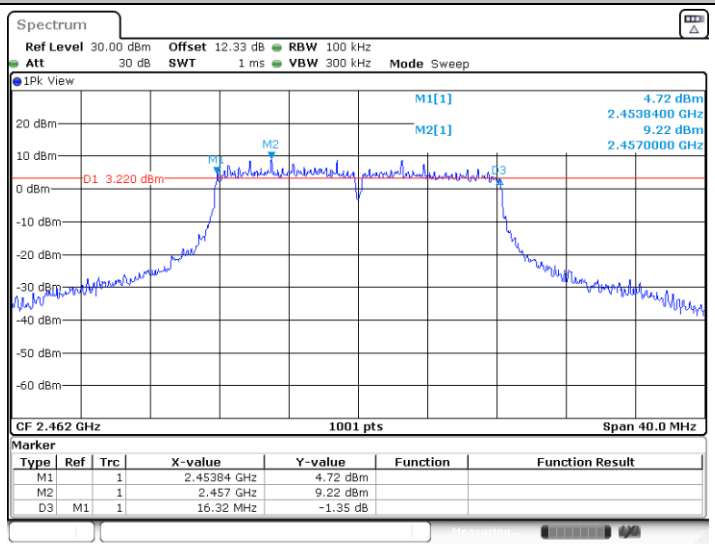

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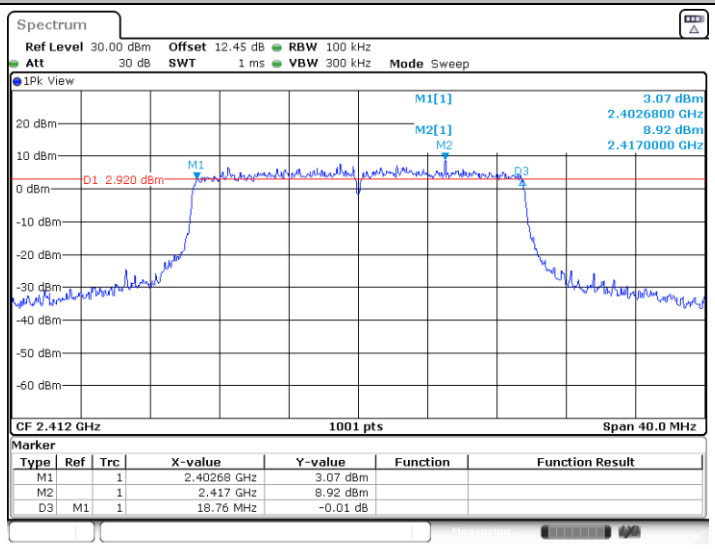

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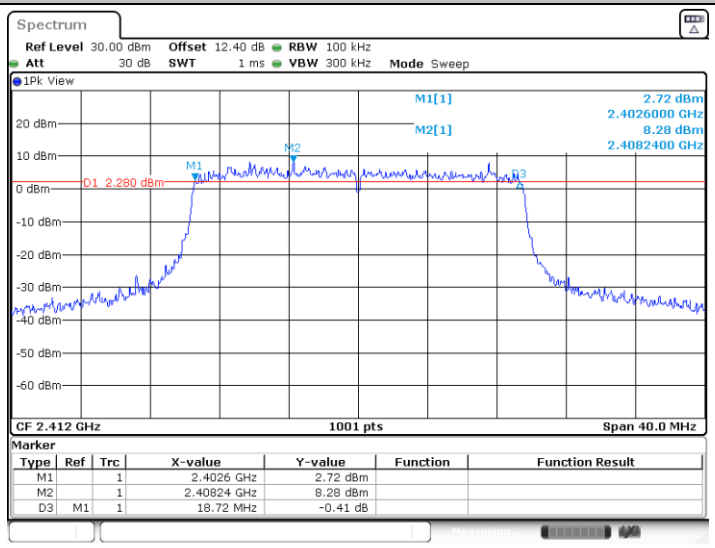

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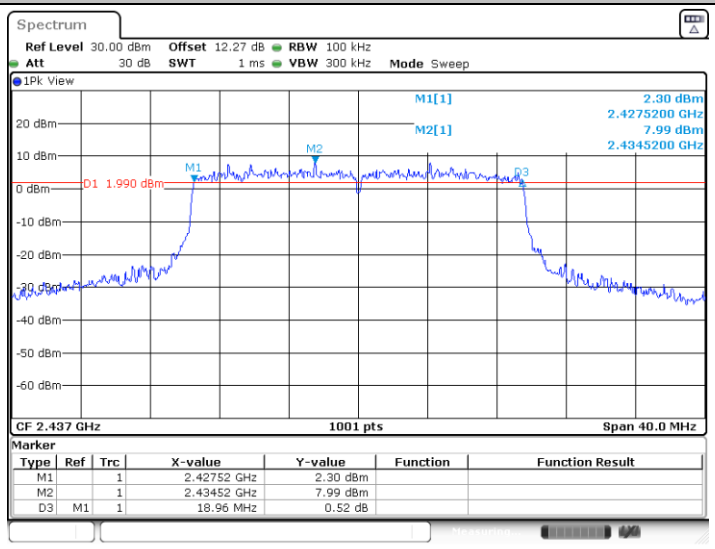
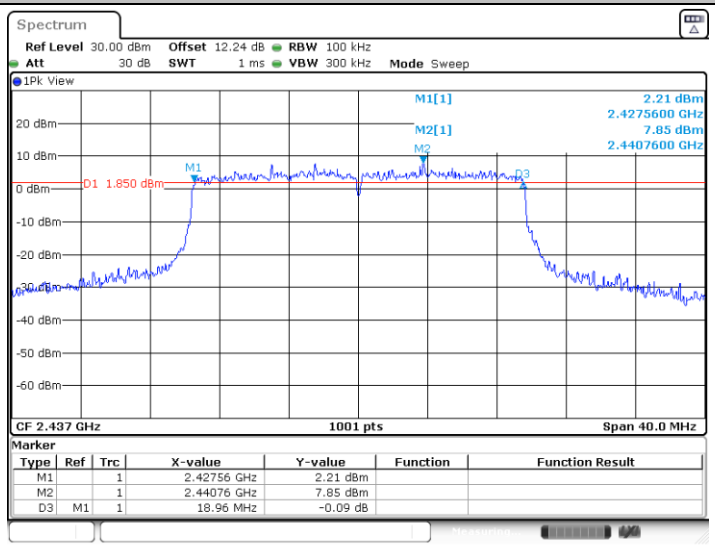
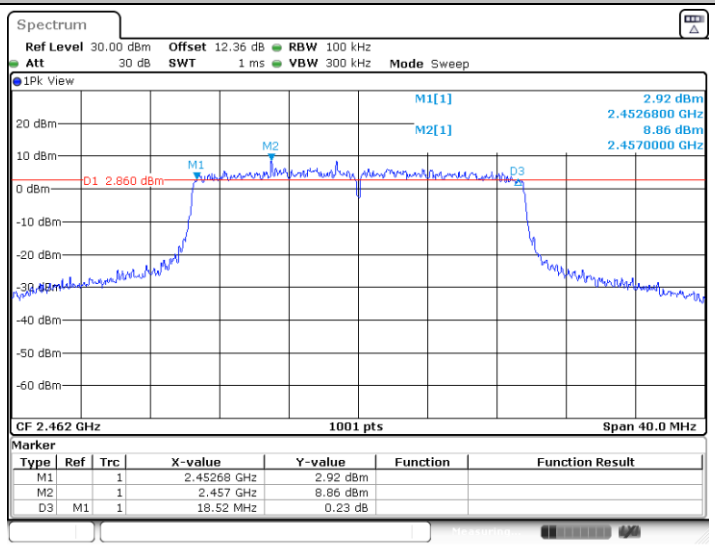
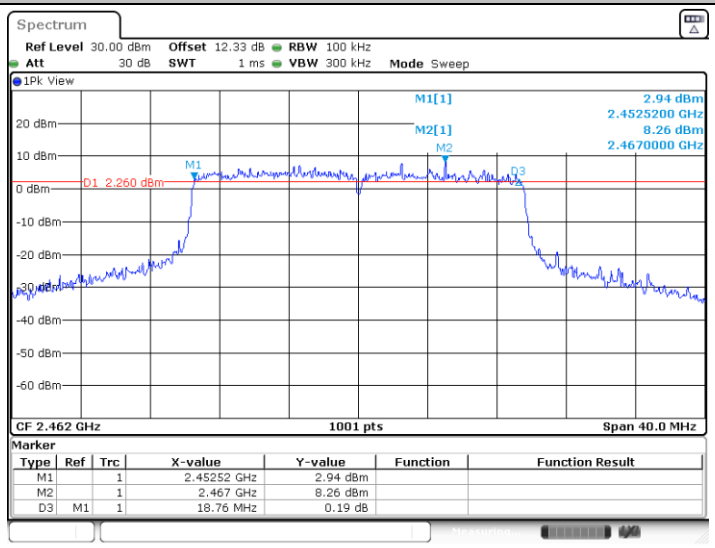
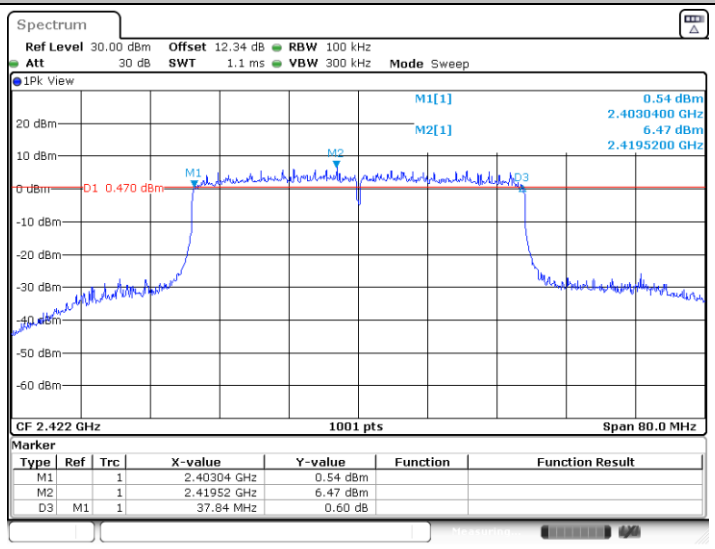
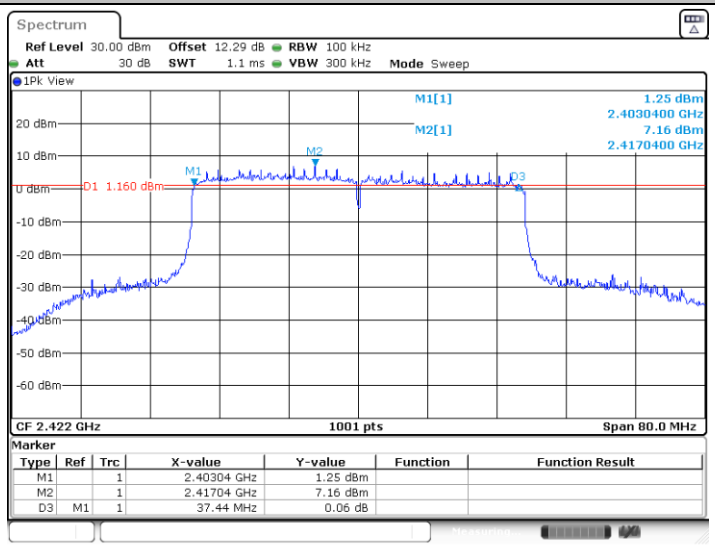


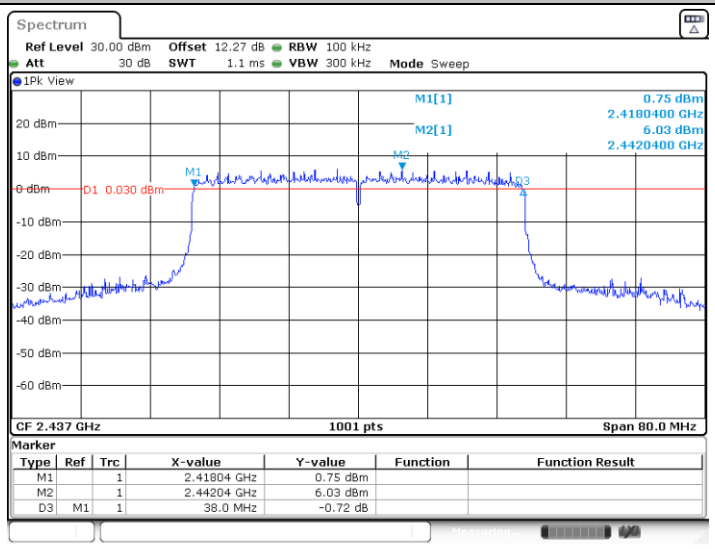
11AX20MIMO_Ant6_2437


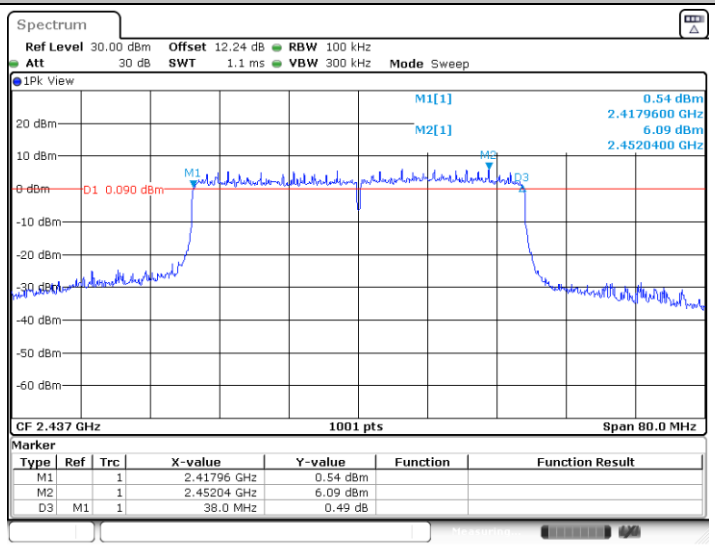
11AX20MIMO_Ant4_2462


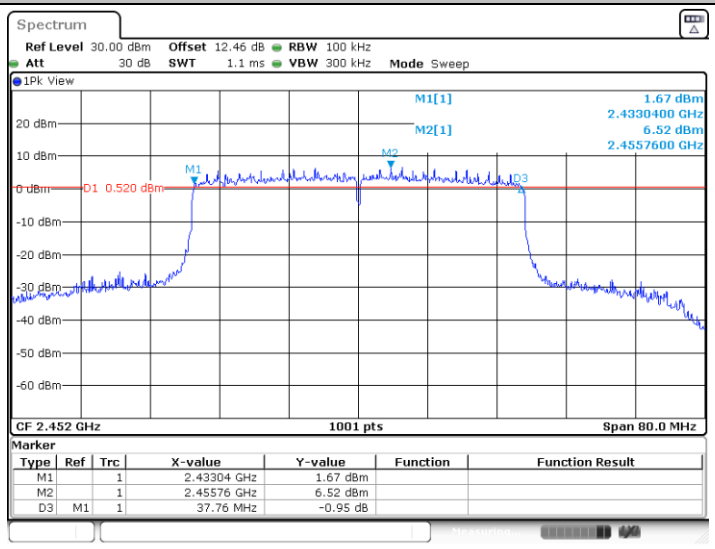
11AX20MIMO_Ant6_2462


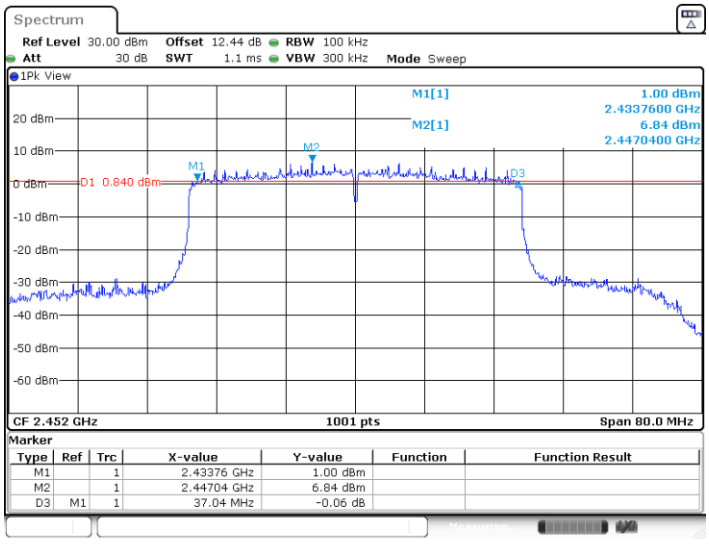
11AX40MIMO_Ant4_2422


11AX40MIMO_Ant6_2422


11AX40MIMO_Ant4_2437


11AX40MIMO_Ant6_2437


11AX40MIMO_Ant4_2452


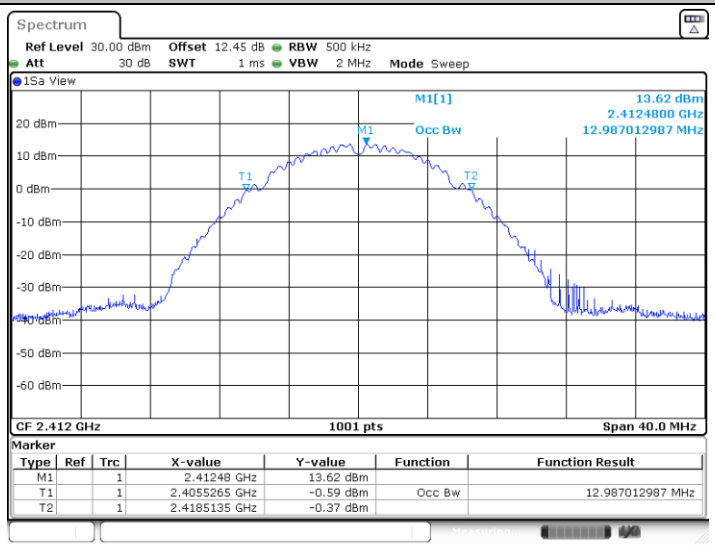
11AX40MIMO_Ant6_2452


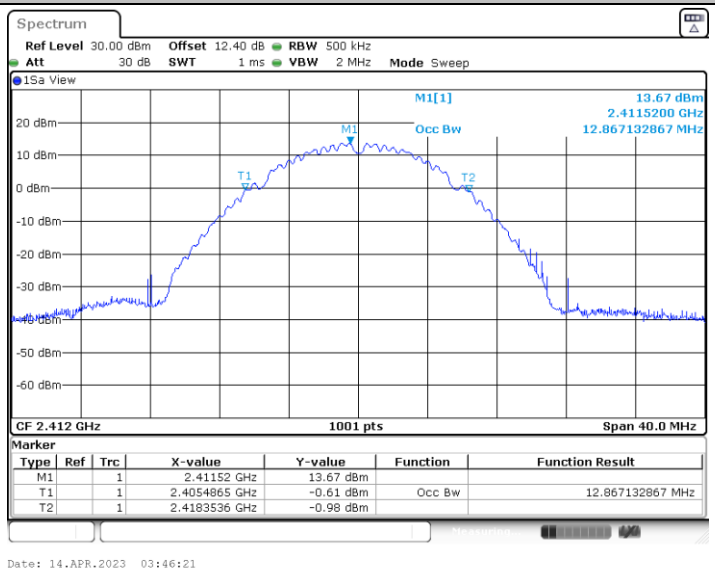
Occupied Channel Bandwidth

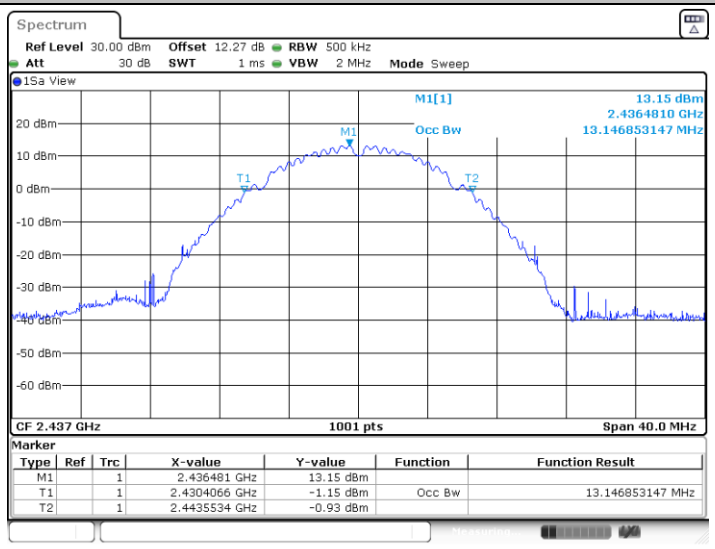
Test Result

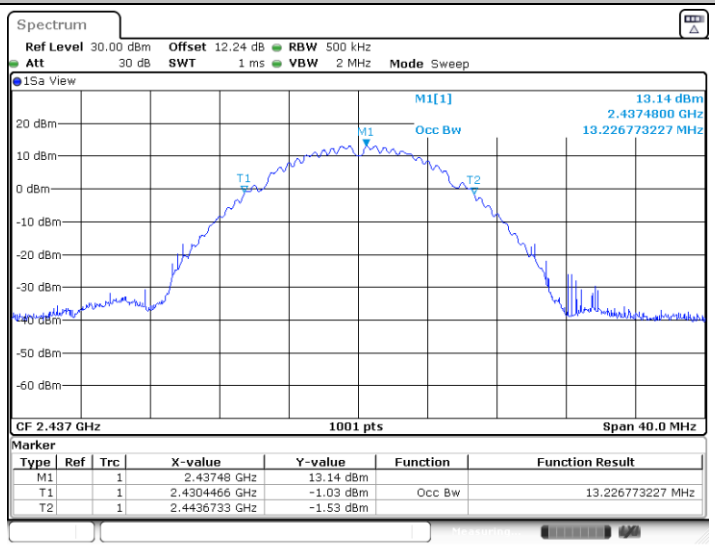
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11B-CDD	Ant4	2412	12.987	2405.5265	2418.5135
	Ant6	2412	12.867	2405.4865	2418.3536
	Ant4	2437	13.147	2430.4066	2443.5534
	Ant6	2437	13.227	2430.4466	2443.6733
	Ant4	2462	13.027	2455.4066	2468.4336
	Ant6	2462	13.227	2455.2468	2468.4735
11G-CDD	Ant4	2412	16.783	2403.5684	2420.3516
	Ant6	2412	16.583	2403.6883	2420.2717
	Ant4	2437	16.783	2428.5285	2445.3117
	Ant6	2437	16.663	2428.6883	2445.3516
	Ant4	2462	16.783	2453.5285	2470.3117
	Ant6	2462	16.663	2453.6484	2470.3117
11AX20MIMO	Ant4	2412	19.061	2402.4895	2421.5504
	Ant6	2412	18.981	2402.4895	2421.4705
	Ant4	2437	19.101	2427.4496	2446.5504
	Ant6	2437	19.061	2427.4895	2446.5504
	Ant4	2462	19.061	2452.4496	2471.5105
	Ant6	2462	19.101	2452.4096	2471.5105
11AX40MIMO	Ant4	2422	37.962	2403.0589	2441.0210
	Ant6	2422	38.122	2402.8991	2441.0210
	Ant4	2437	38.042	2417.9790	2456.0210
	Ant6	2437	38.122	2417.8991	2456.0210
	Ant4	2452	37.962	2432.9790	2470.9411
	Ant6	2452	37.802	2433.1389	2470.9411

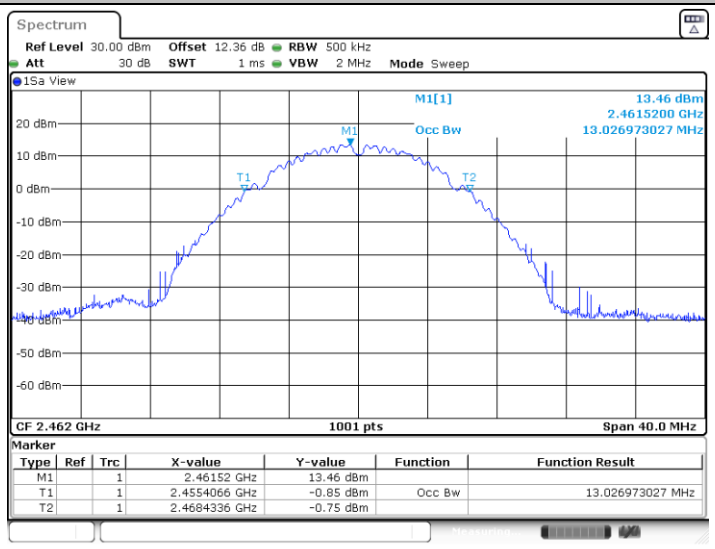
Test Graphs

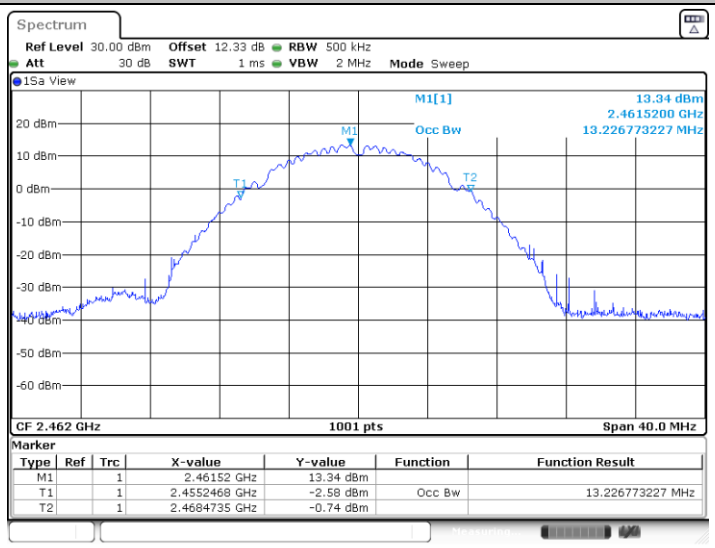
11B-CDD_Ant4_2412


11B-CDD_Ant6_2412


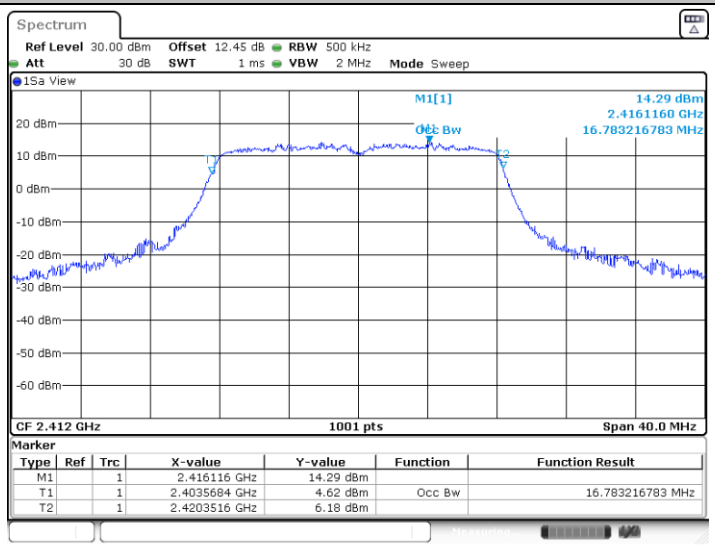
11B-CDD_Ant4_2437


11B-CDD_Ant6_2437


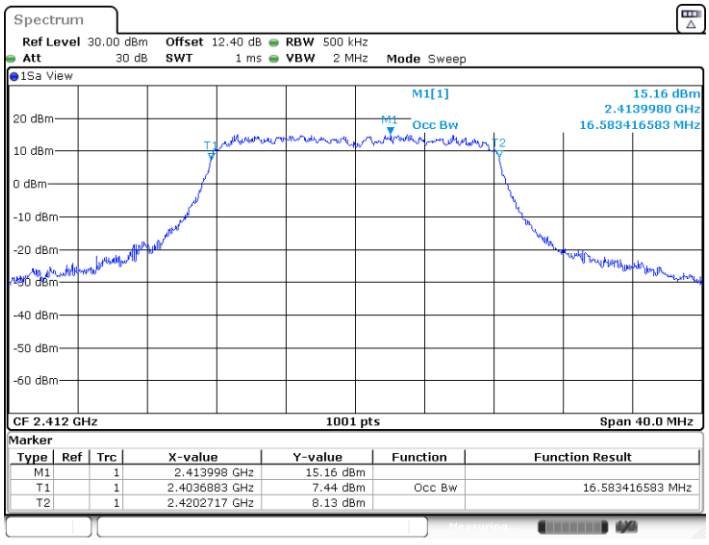
11B-CDD_Ant4_2462


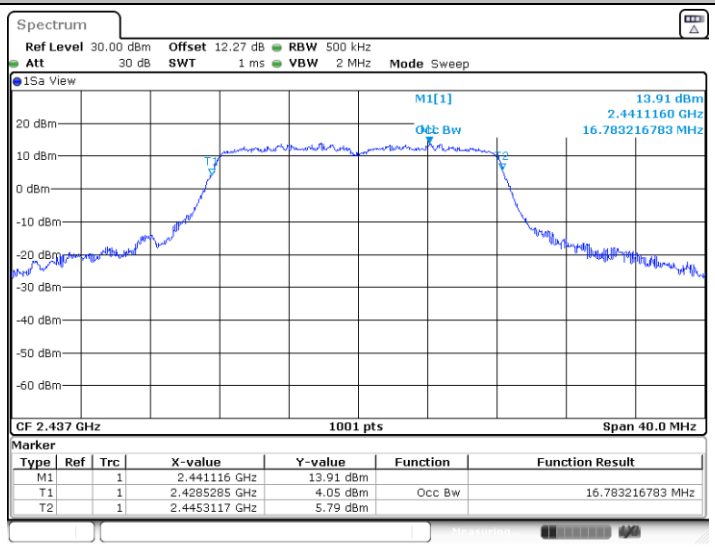
11B-CDD_Ant6_2462


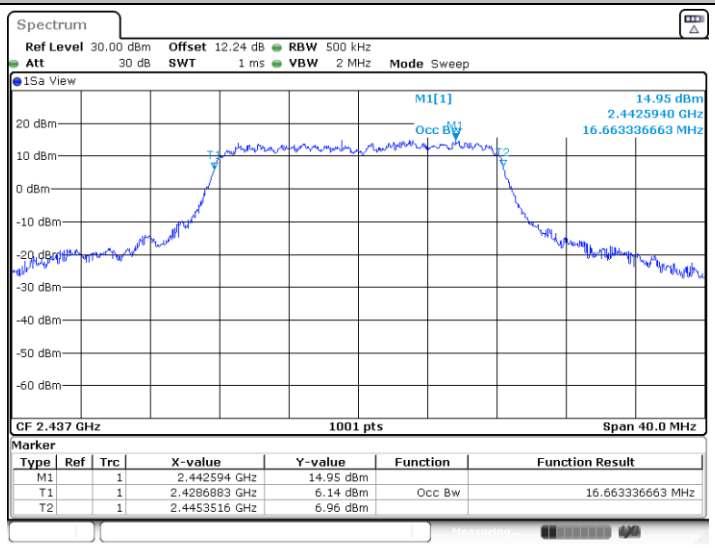
11G-CDD_Ant4_2412

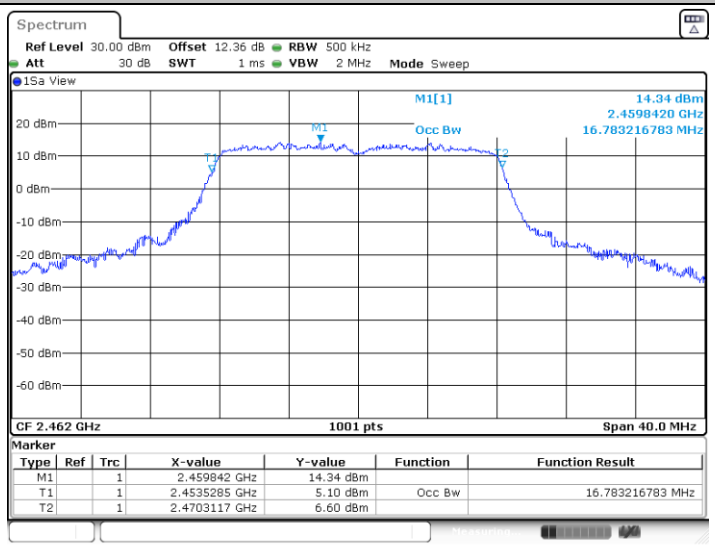


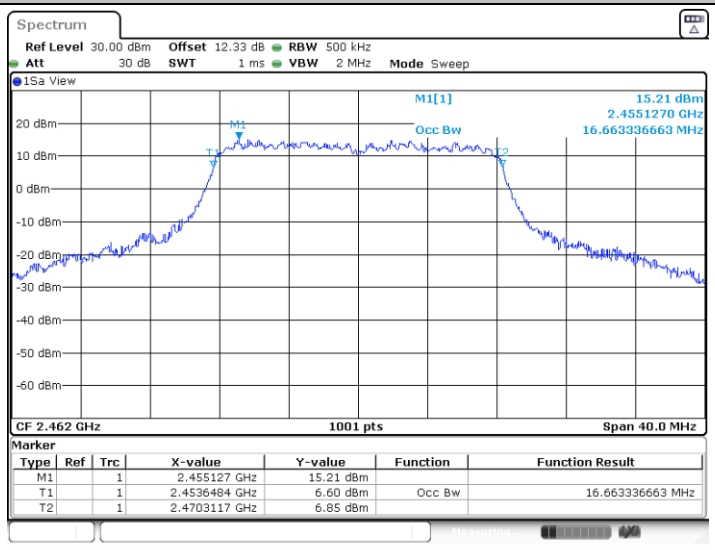
11G-CDD_Ant6_2412



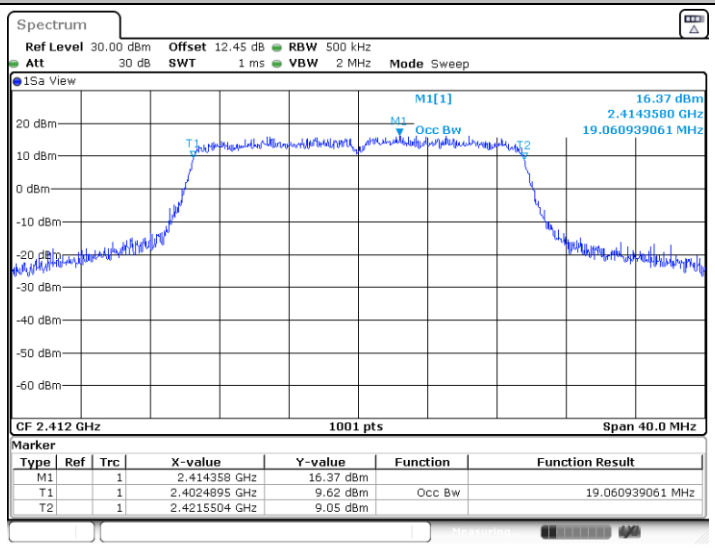
11G-CDD_Ant4_2437


11G-CDD_Ant6_2437


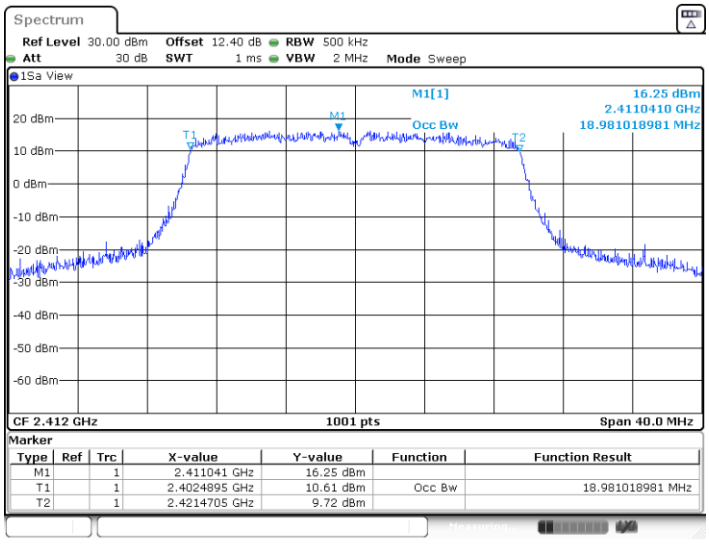
11G-CDD_Ant4_2462


11G-CDD_Ant6_2462


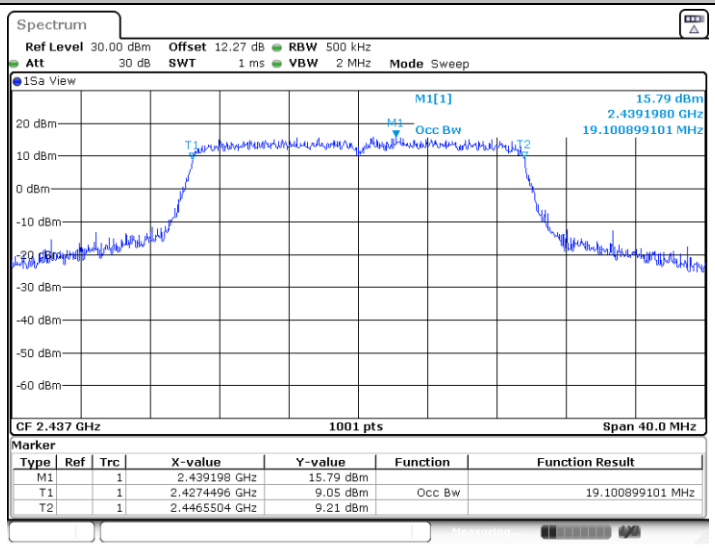
11AX20MIMO_Ant4_2412



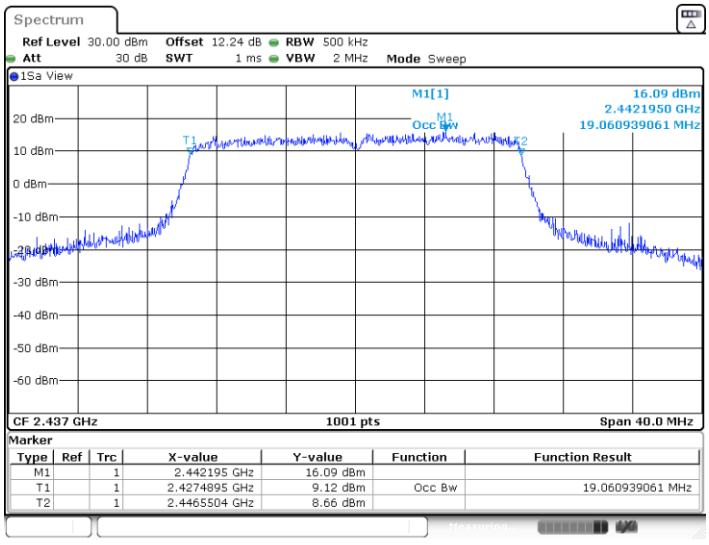
11AX20MIMO_Ant6_2412

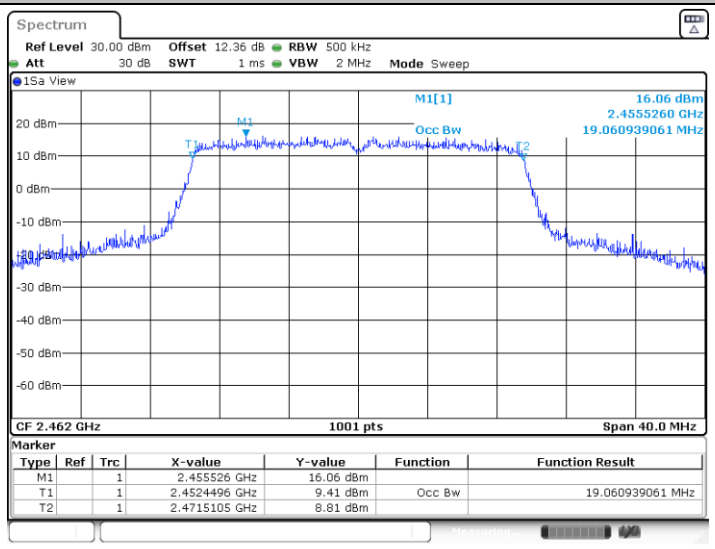


11AX20MIMO_Ant4_2437



11AX20MIMO_Ant6_2437



11AX20MIMO_Ant4_2462


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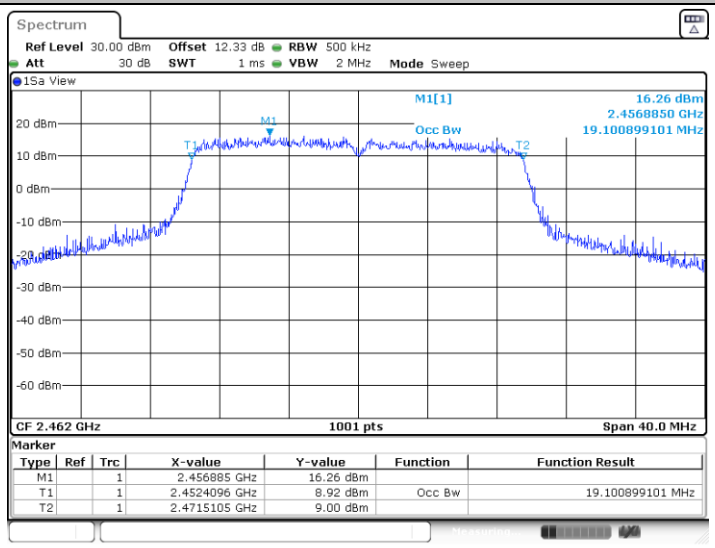
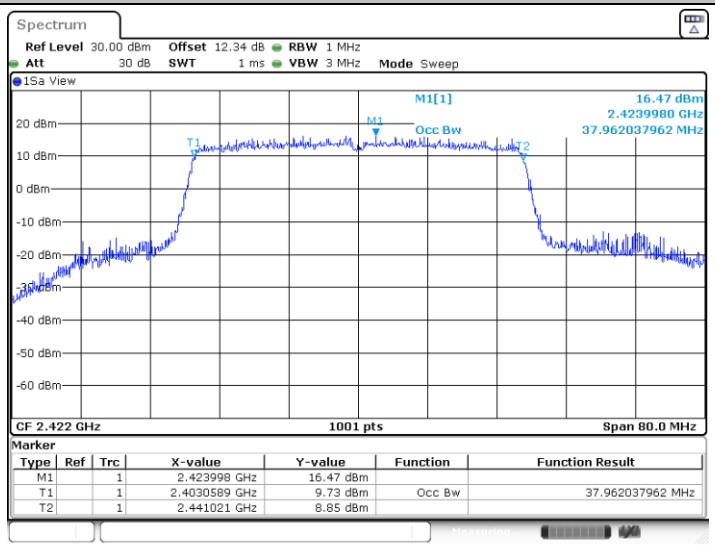


11AX40MIMO_Ant4_2422


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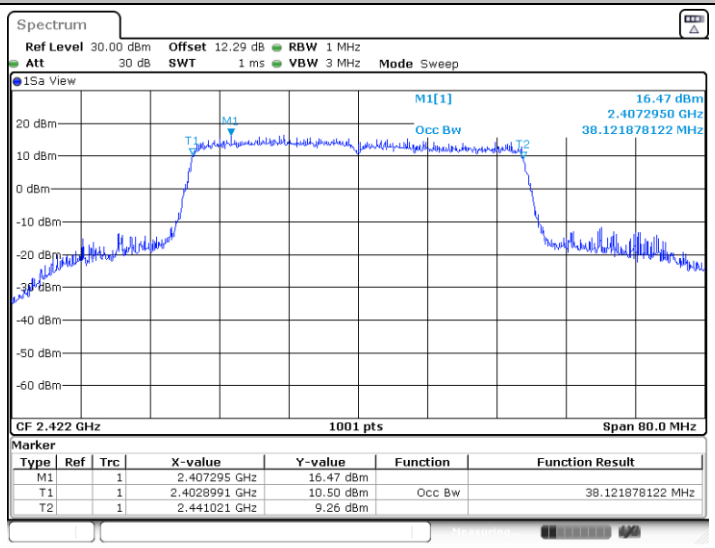
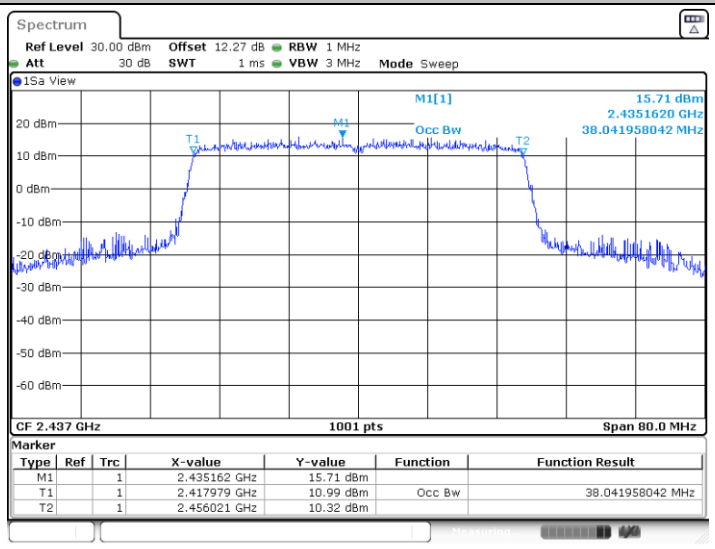
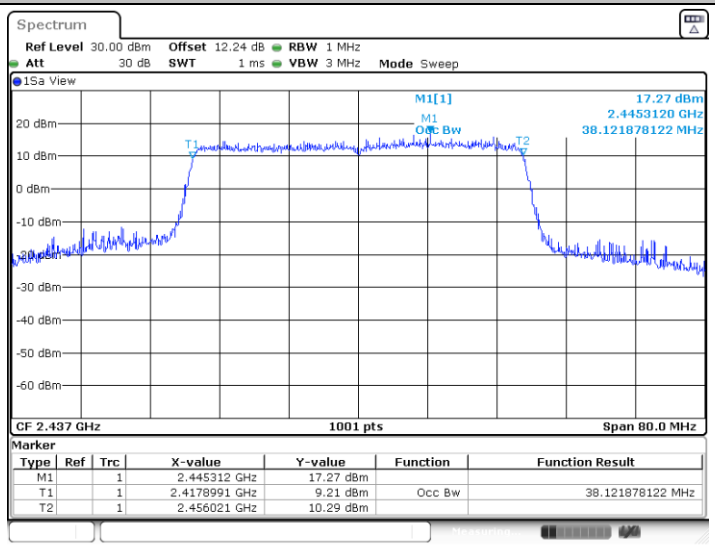
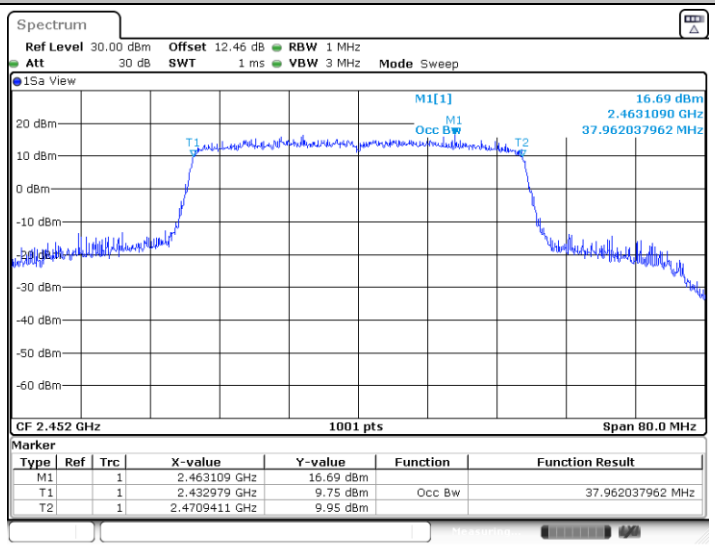
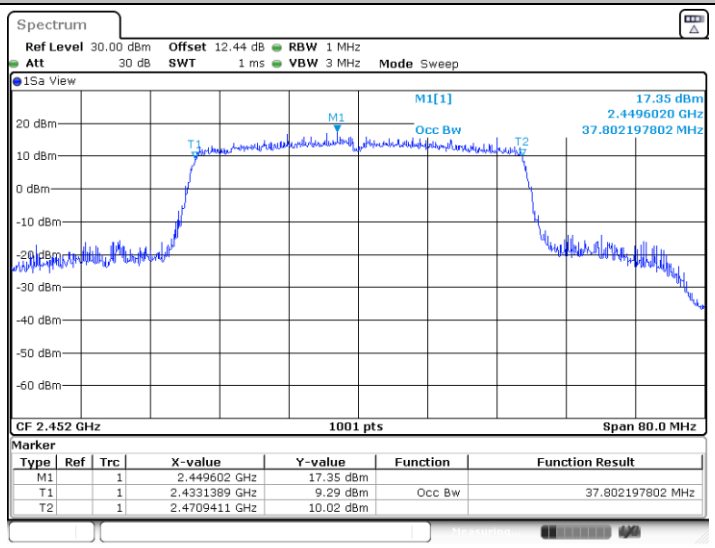


11AX40MIMO_Ant4_2437


11AX40MIMO_Ant6_2437


11AX40MIMO_Ant4_2452


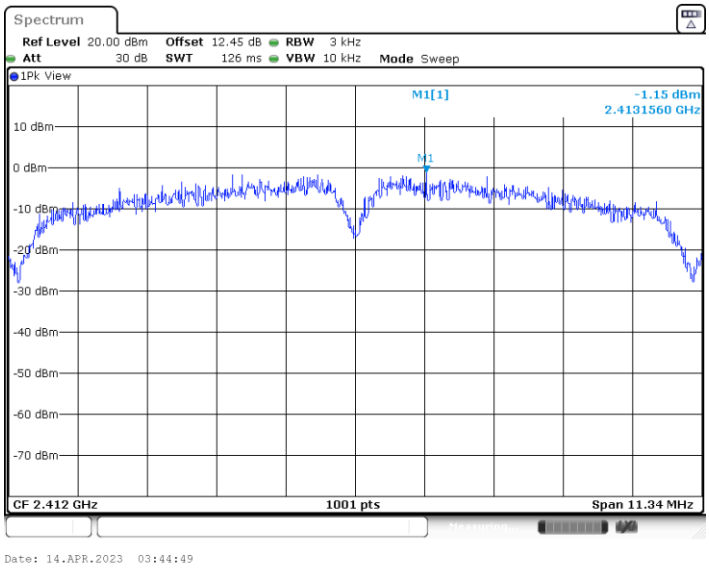
11AX40MIMO_Ant6_2452


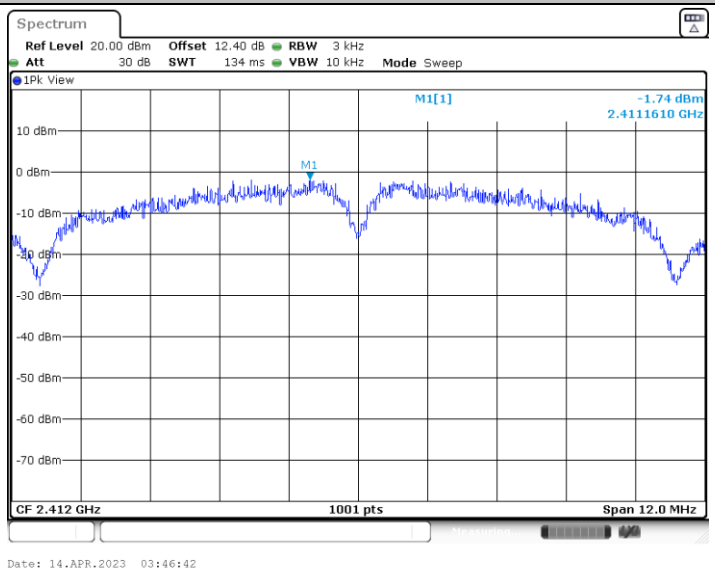
Maximum power spectral density

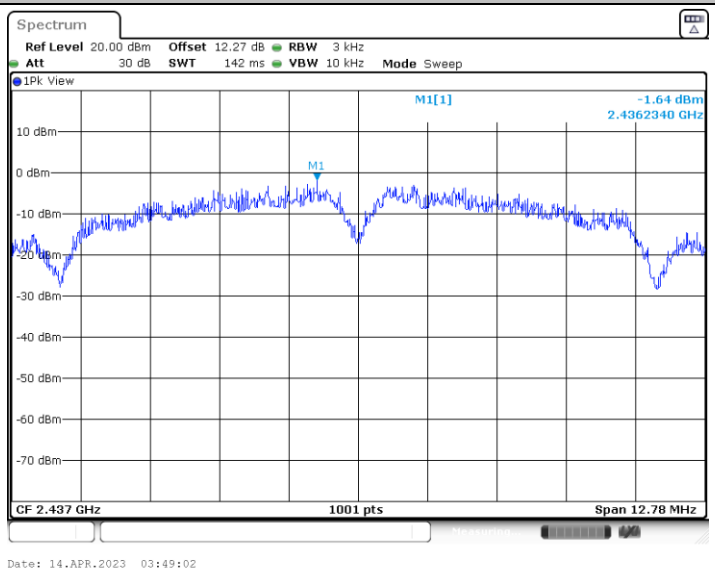
Test Result

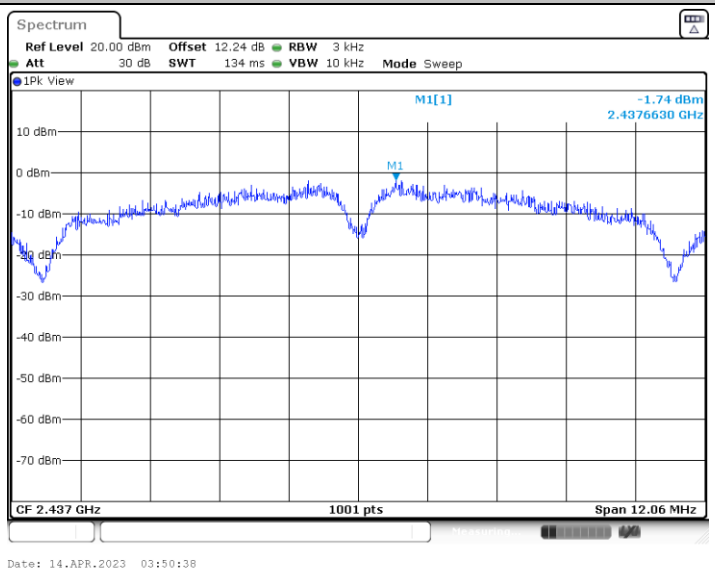
TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B-CDD	Ant4	2412	-1.15	≤8.00	PASS
	Ant6	2412	-1.74	≤8.00	PASS
	total	2412	1.58	≤8.00	PASS
	Ant4	2437	-1.64	≤8.00	PASS
	Ant6	2437	-1.74	≤8.00	PASS
	total	2437	1.32	≤8.00	PASS
	Ant4	2462	-2.06	≤8.00	PASS
	Ant6	2462	-1.36	≤8.00	PASS
	total	2462	1.31	≤8.00	PASS
11G-CDD	Ant4	2412	-7.96	≤8.00	PASS
	Ant6	2412	-7.73	≤8.00	PASS
	total	2412	-4.83	≤8.00	PASS
	Ant4	2437	-8.4	≤8.00	PASS
	Ant6	2437	-8.87	≤8.00	PASS
	total	2437	-5.62	≤8.00	PASS
	Ant4	2462	-8.64	≤8.00	PASS
	Ant6	2462	-7.59	≤8.00	PASS
	total	2462	-5.07	≤8.00	PASS
11AX20MIMO	Ant4	2412	-8.54	≤8.00	PASS
	Ant6	2412	-8.09	≤8.00	PASS
	total	2412	-5.30	≤8.00	PASS
	Ant4	2437	-8.09	≤8.00	PASS
	Ant6	2437	-8.71	≤8.00	PASS
	total	2437	-5.38	≤8.00	PASS
	Ant4	2462	-8	≤8.00	PASS
	Ant6	2462	-7.93	≤8.00	PASS
	total	2462	-4.95	≤8.00	PASS
11AX40MIMO	Ant4	2422	-11.13	≤8.00	PASS
	Ant6	2422	-10.21	≤8.00	PASS
	total	2422	-7.64	≤8.00	PASS
	Ant4	2437	-11.5	≤8.00	PASS
	Ant6	2437	-11.15	≤8.00	PASS
	total	2437	-8.31	≤8.00	PASS
	Ant4	2452	-11.14	≤8.00	PASS
	Ant6	2452	-10.98	≤8.00	PASS
	total	2452	-8.05	≤8.00	PASS

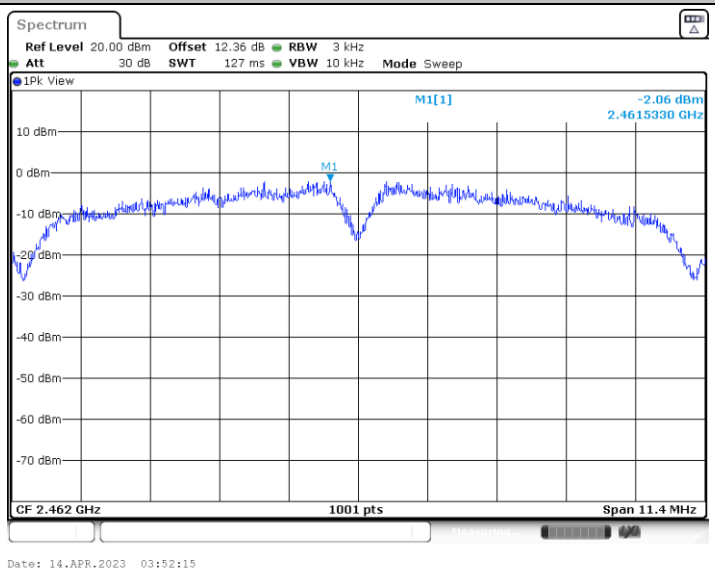
Test Graphs

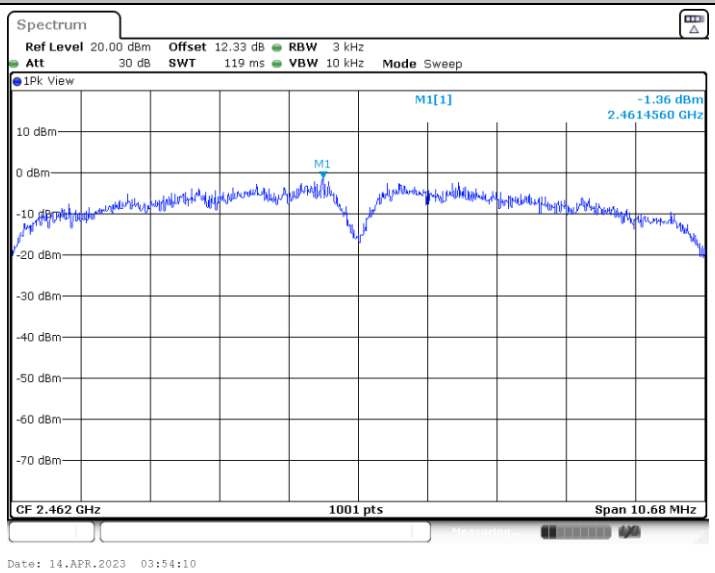
11B-CDD_Ant4_2412


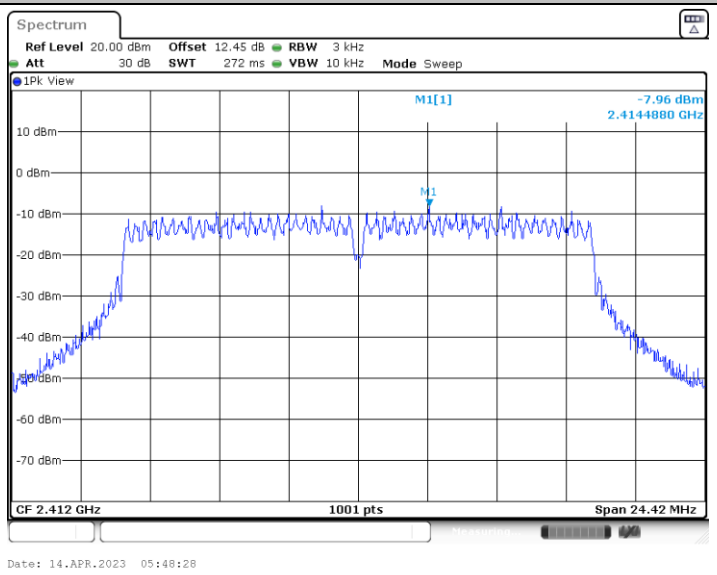
11B-CDD_Ant6_2412


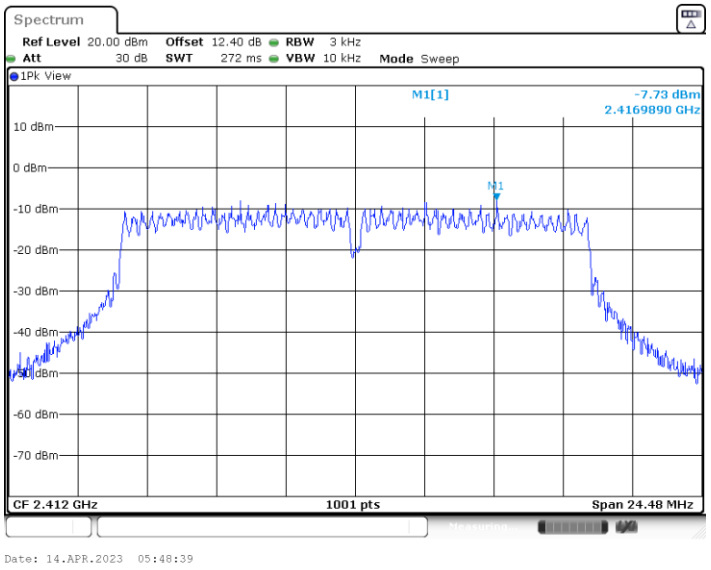
11B-CDD_Ant4_2437


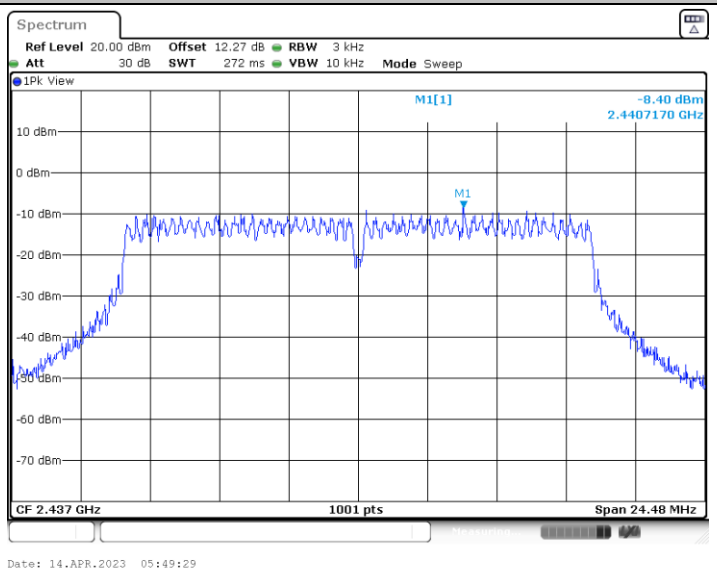
11B-CDD_Ant6_2437


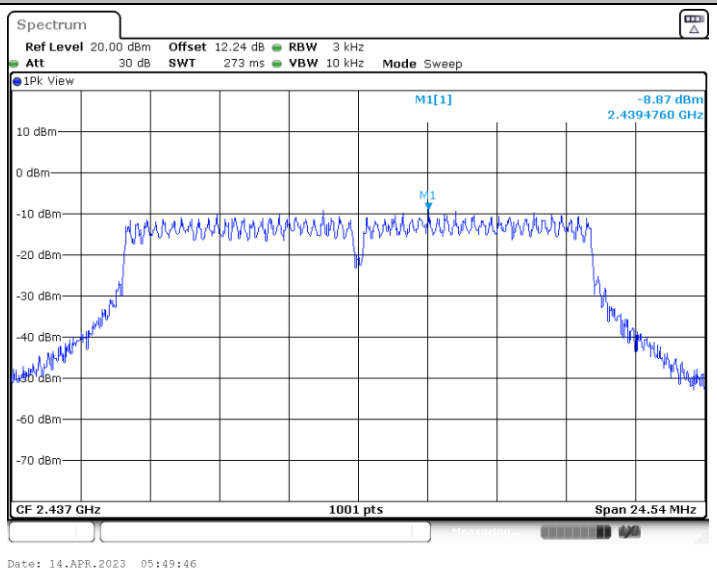
11B-CDD_Ant4_2462


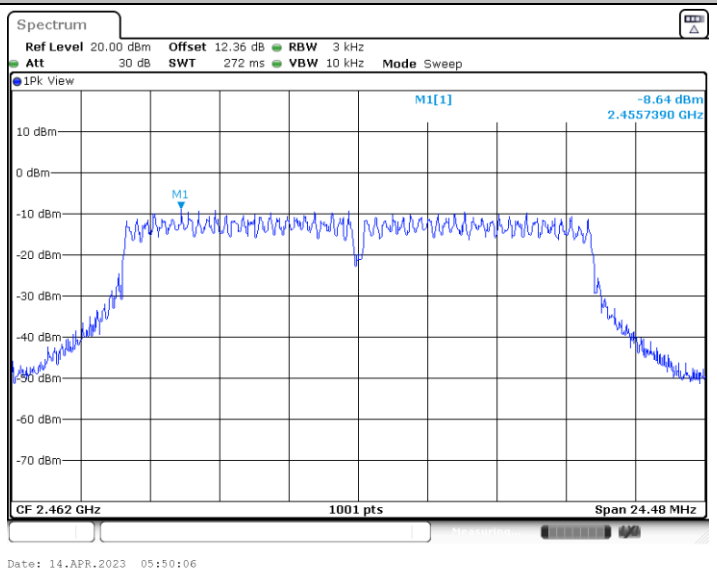
11B-CDD_Ant6_2462


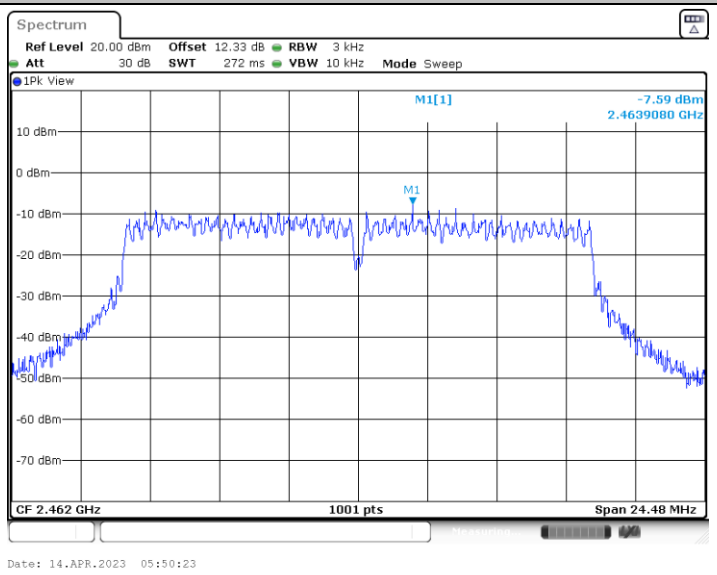
11G-CDD_Ant4_2412


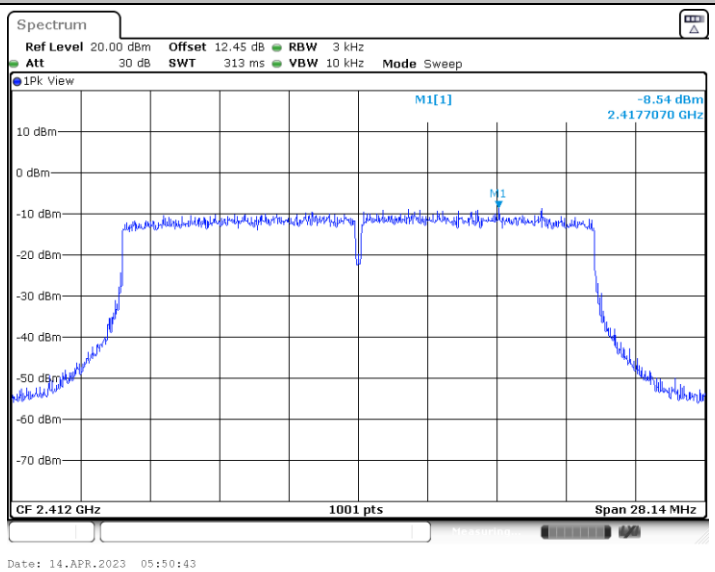
11G-CDD_Ant6_2412


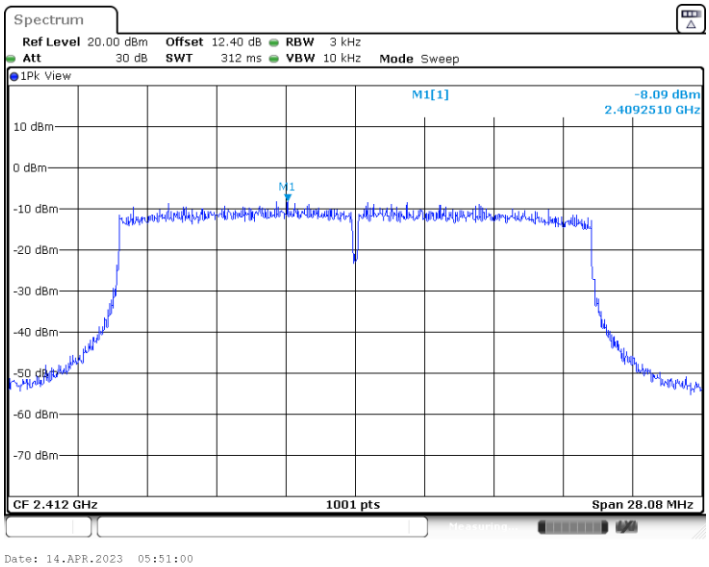
11G-CDD_Ant4_2437


11G-CDD_Ant6_2437


11G-CDD_Ant4_2462


11G-CDD_Ant6_2462


11AX20MIMO_Ant4_2412


11AX20MIMO_Ant6_2412


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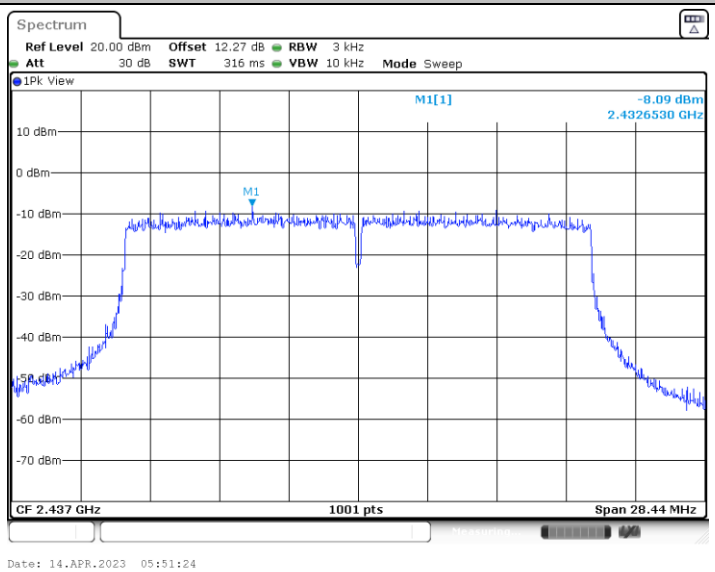

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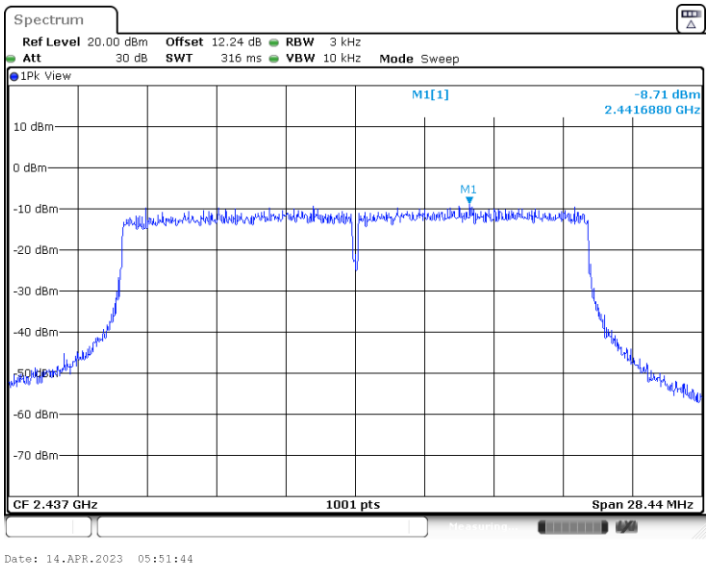

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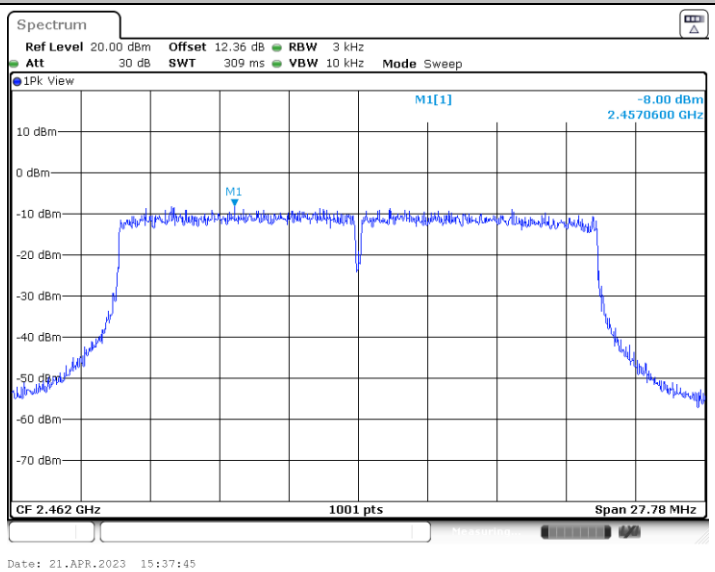

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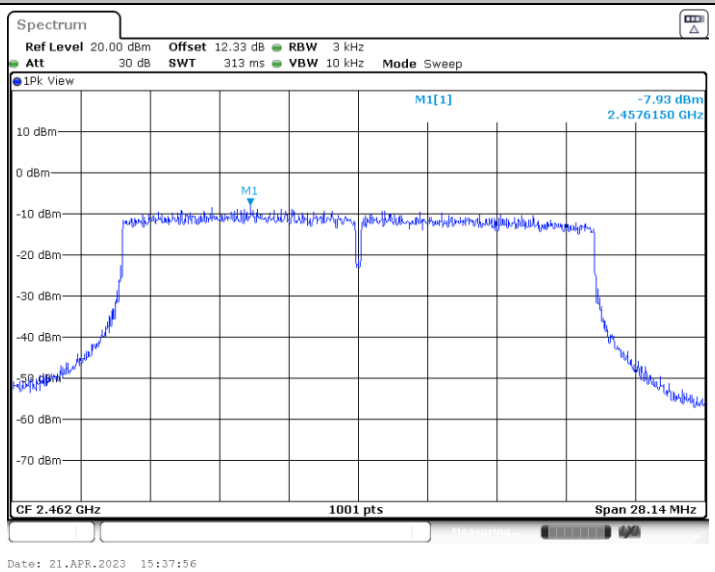

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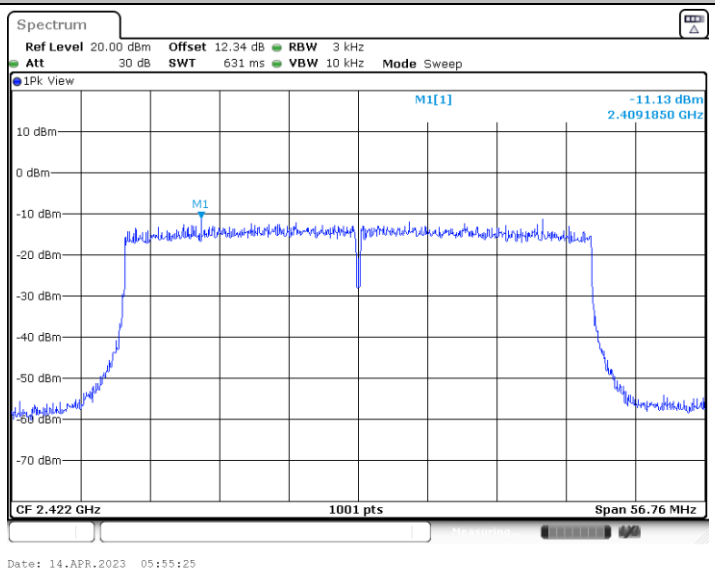

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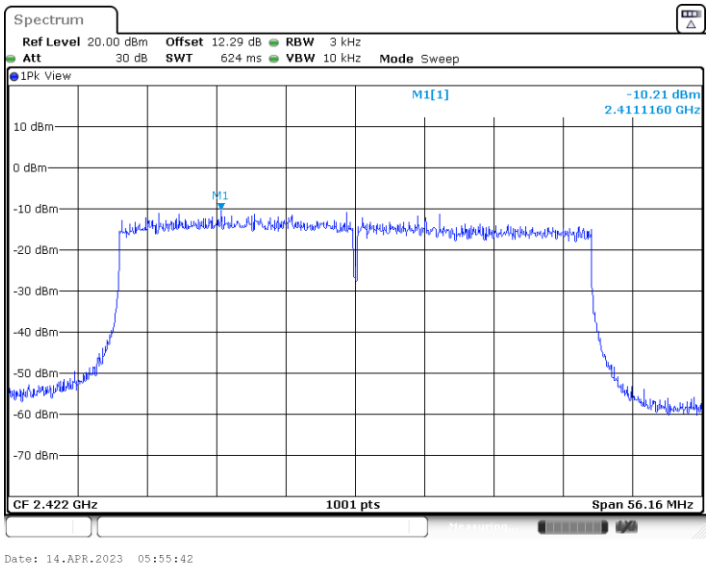

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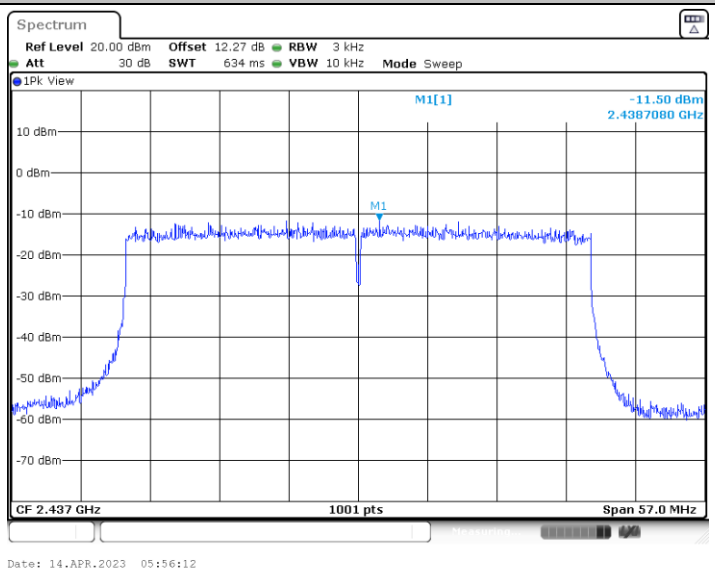

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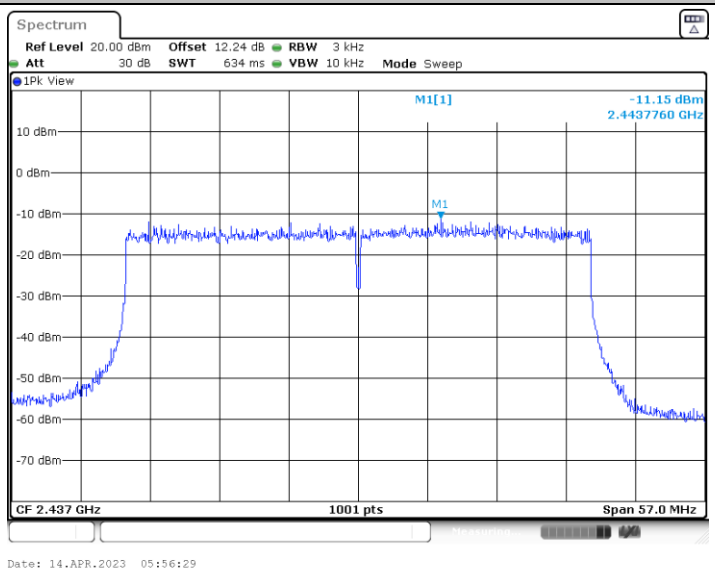

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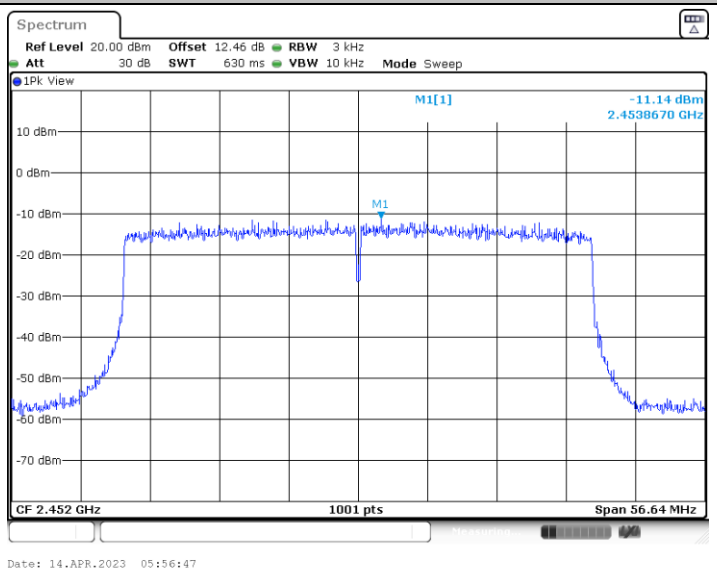

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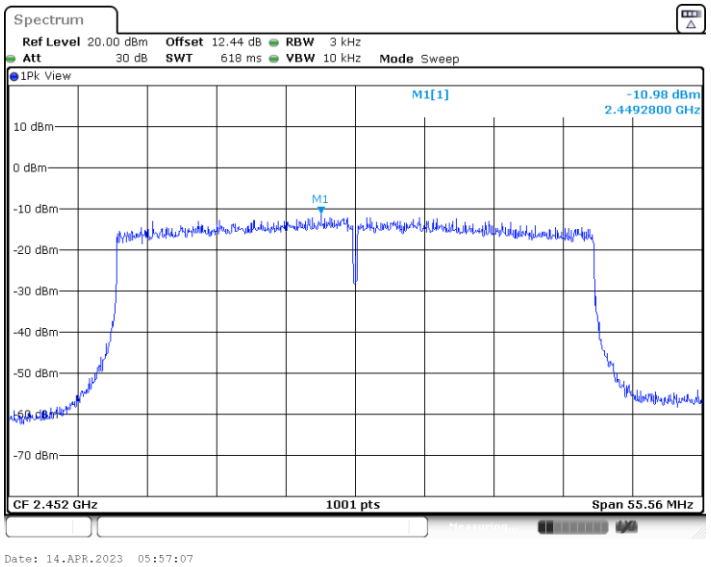
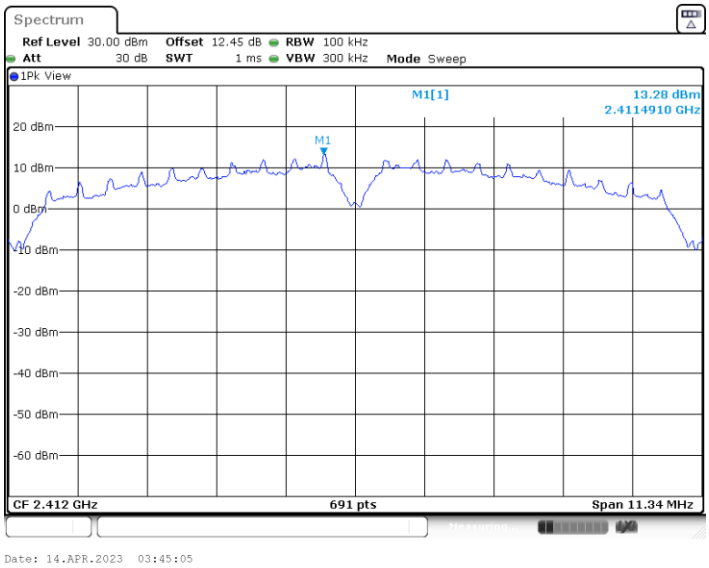


Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm/100KHz]
11B-CDD	Ant4	2412	2411.49	13.28
	Ant6	2412	2412.50	12.98
	Ant4	2437	2437.50	12.88
	Ant6	2437	2438.50	12.27
	Ant4	2462	2461.51	12.69
	Ant6	2462	2461.01	12.51
11G-CDD	Ant4	2412	2414.47	9.39
	Ant6	2412	2417.00	9.19
	Ant4	2437	2439.48	8.97
	Ant6	2437	2439.52	8.85
	Ant4	2462	2464.52	9.19
	Ant6	2462	2455.77	9.07
11AX20MIMO	Ant4	2412	2406.99	8.69
	Ant6	2412	2414.52	9.03
	Ant4	2437	2439.47	8.67
	Ant6	2437	2444.49	8.09
	Ant4	2462	2458.26	8.40
	Ant6	2462	2455.73	8.75
11AX40MIMO	Ant4	2422	2419.54	6.46
	Ant6	2422	2416.96	7.02
	Ant4	2437	2442.03	5.99
	Ant6	2437	2452.01	6.38
	Ant4	2452	2457.00	6.40
	Ant6	2452	2449.51	6.85

Test Graphs

11B-CDD_Ant4_2412


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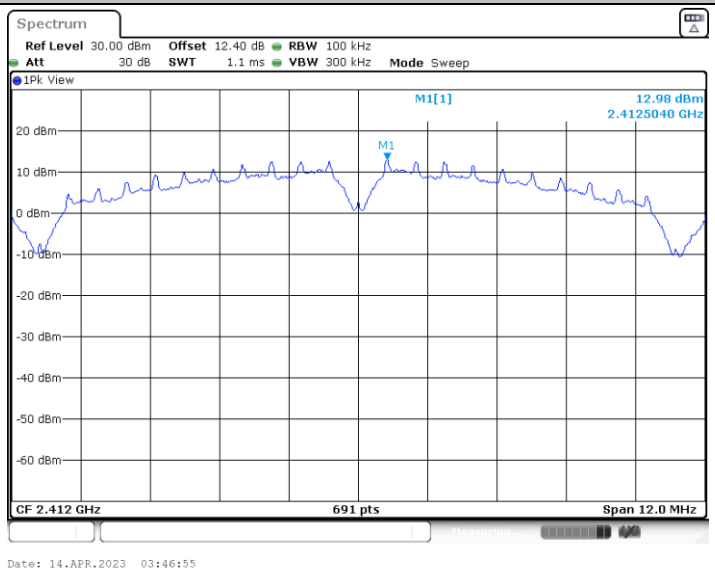

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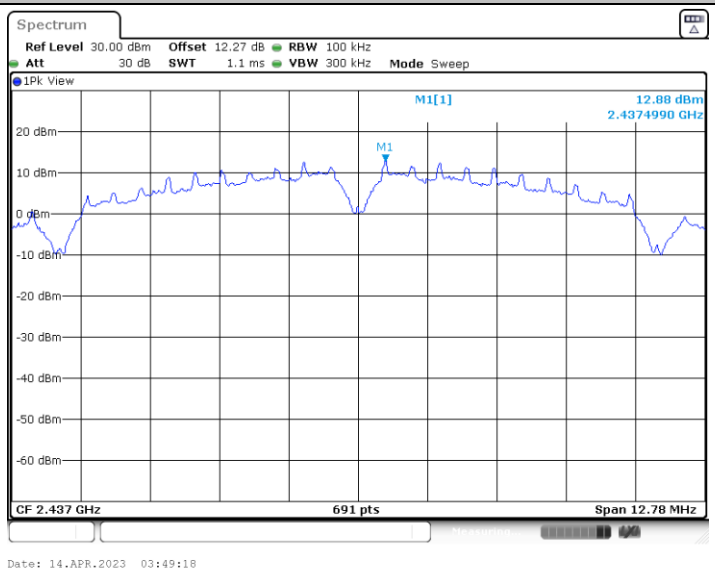

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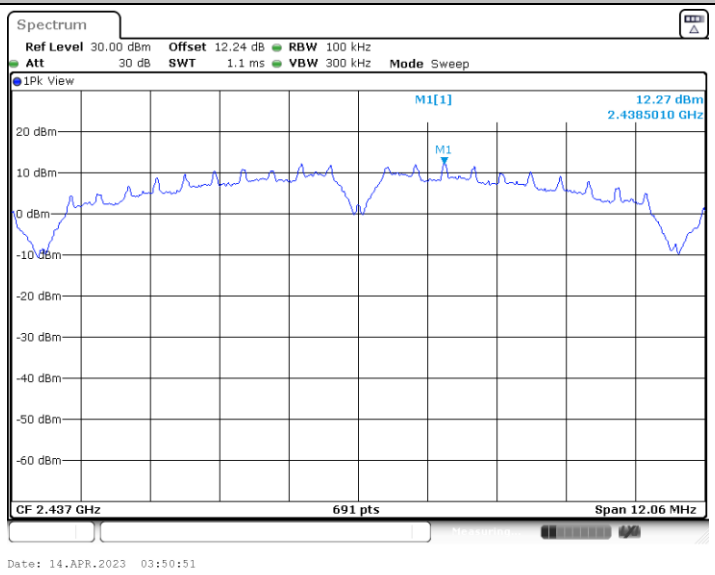

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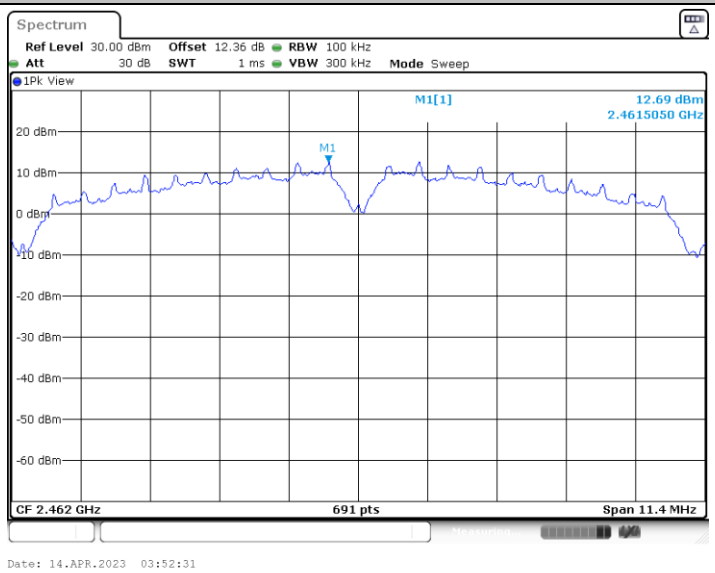

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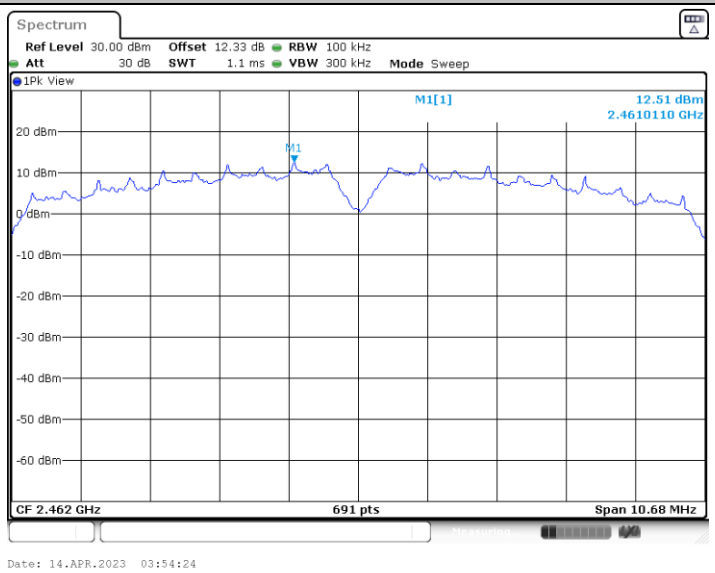

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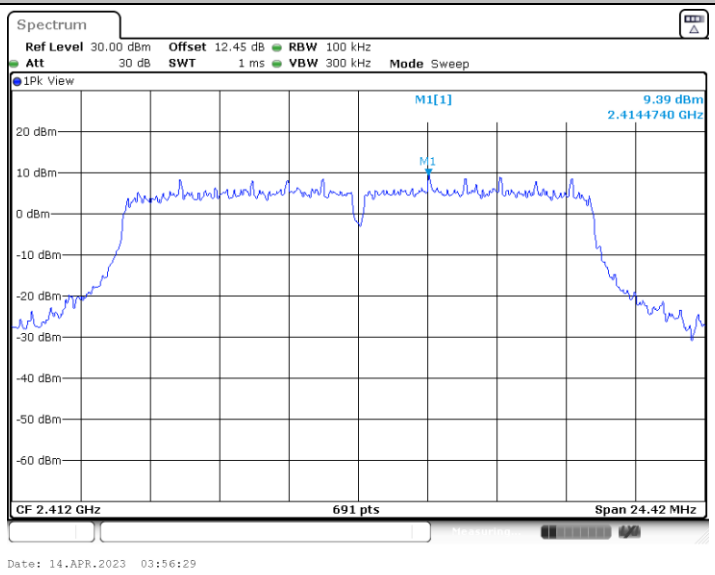

11G-CDD_Ant6_2412