FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	Xiaomi
MODEL NAME	:	2506BPN68G
FCC ID	:	2AFZZPN68G
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DTS) Digital Transmission System
TEST DATE(S)	:	May 03, 2025 ~ Jun. 03, 2025

We, Sporton International Inc. (ShenZhen), 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. (ShenZhen), the test report shall not be reproduced except in full.

Fly Liang

Approved by: Fly Liang

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)

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People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR524529C	Rev. 01	Initial issue of report	Jun. 11, 2025

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 3.30 dB at 2483.77 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 14.30 dB at 0.16 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

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	2506BPN68G
FCC ID	2AFZZPN68G
IMEI Code	Conducted: 864724070091723&864724070091731 Conduction: 864724070065800/864724070065818 Radiation: 864724070091343/864724070091350
HW Version	1351P2404
SW Version	Xiaomi HyperOS 2.0
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	**<SISO Ant.10>** 802.11b : 21.89 dBm (0.1545 W) 802.11g : 25.17 dBm (0.3289 W) **<SISO Ant.8>** 802.11b : 21.81 dBm (0.1517 W) 802.11g : 25.97 dBm (0.3954 W) **<MIMO Ant.10+8>** 802.11n HT20 : 28.32 dBm (0.6792 W) 802.11ac VHT20 : 28.17 dBm (0.6561 W) 802.11ax HE20 : 28.59 dBm (0.7228 W) 802.11be EHT20 : 28.73 dBm (0.7464 W)
99% Occupied Bandwidth	**<Ant.8/10>** 802.11b : 12.907MHz 802.11g : 16.602MHz 802.11n HT20 : 17.654MHz 802.11be EHT20 : 18.938MHz
Antenna Type / Gain	**<Ant 8>:**PIFA Antenna type with gain -0.83 dBi **<Ant 10>:**PIFA Antenna type with gain -1.50 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM) 802.11be: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM)

Note:

1. The device supports WLAN SISO mode for 802.11b/g mode.
2. The device supports WLAN SISO & MIMO CDD mode for 802.11n/ac/ax/be mode.
3. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to the higher normal output power for 802.11n/ac/ax/be mode.
4. For 802.11n/ac mode, the whole testing has assessed only 802.11n HT20 by referring to the higher output power.
5. For 802.11ax/be mode, the whole testing has assessed only 802.11be EHT20 by referring to the higher output power.
6. 802.11ax/be 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, the full RU power/PSD > partial RU, therefore the full RU perform full, and partial RU verify bandedge/spurious.
7. 802.11be support OFDMA for small size RU, 52Tone + 26 Tone or 106Tone + 26Tone, test combination as below,
   a. For Low channel, 52Tone_Index38 + 26Tone_Index1 and 106Tone_Index53 + 26Tone_Index4
   b. For High channel, 52Tone_Index39 + 26Tone_Index7 and 106Tone_Index54 + 26Tone_Index4
8. The worse cases of RSE for partial RU and small size RU are shown in this report.

1.5 Modification of EUT

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

1.6 Testing Location

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 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ CO02-SZ 03CH03-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24
2.	CO02-SZ	AUDIX	E3	6.120613b

1.8 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 in three orthogonal panels (X, Y, Z) for Adapter mode, Earphone mode and Wireless charging mode. The worst cases (X Plane-Adapter mode) 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.

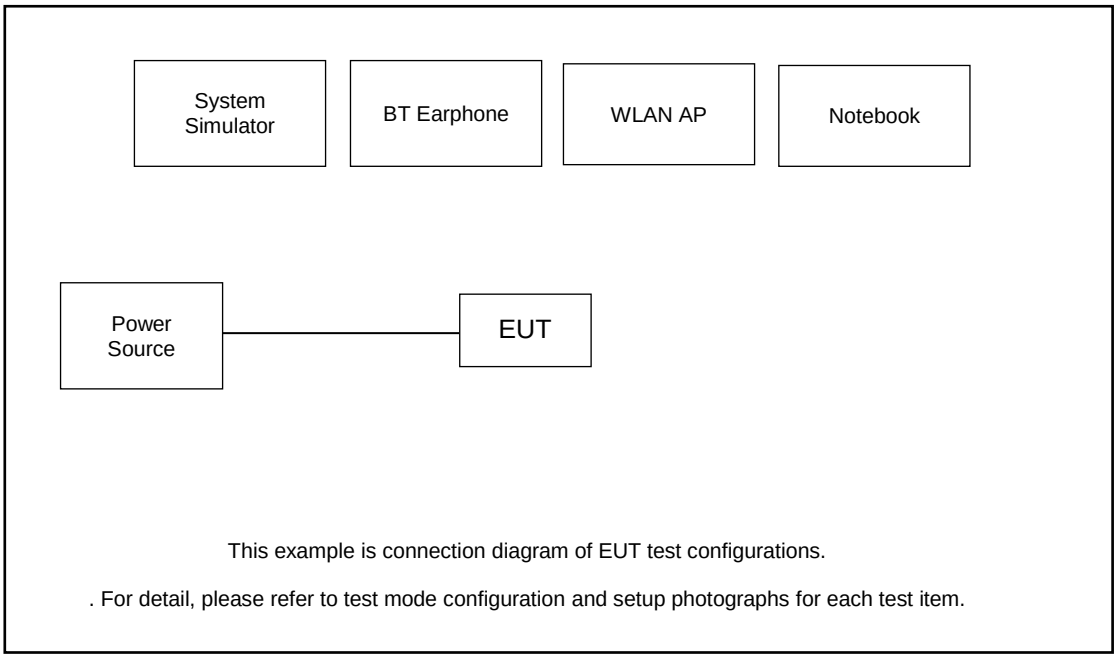
MIMO Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11be EHT20	MCS0

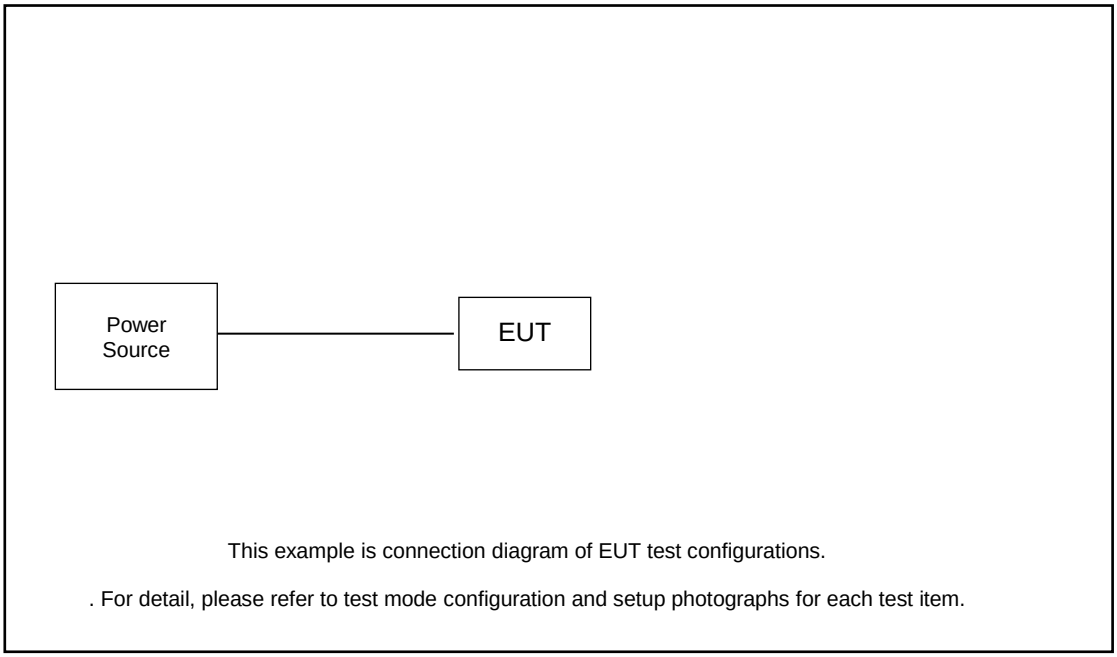
Test Cases	
AC Conducted Emission	Mode 1 :GSM 850 Idle + Bluetooth Link + WLAN Link (2.4G) + USB Cable(Charging from Adapter1)
Remark: For Radiated Test Cases, The tests were performance with Adapter1 and USB Cable.	

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latiude 3400	N/A	N/A	Unshielded,1.8m
4.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	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 2.12 dB and 10dB attenuator.

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

= 2.12 + 10 = 12.12 (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.

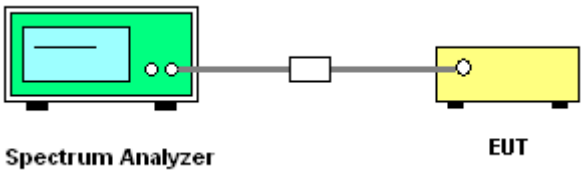
3.1.2 Measuring Instruments

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) ≥ 3*RBW. 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) approximately three times the RBW.
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.

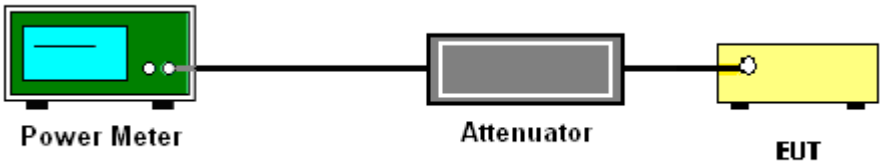
3.2.2 Measuring Instruments

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:

   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.

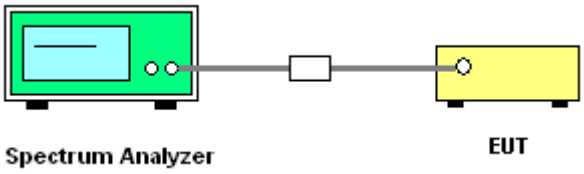
   Method (b): Measure and sum spectral maxima across the outputs.

   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 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.

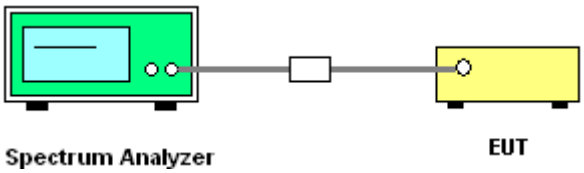
3.4.2 Measuring Instruments

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

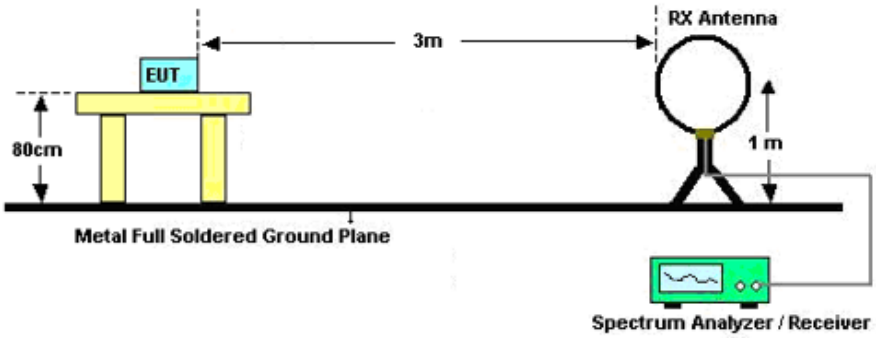
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

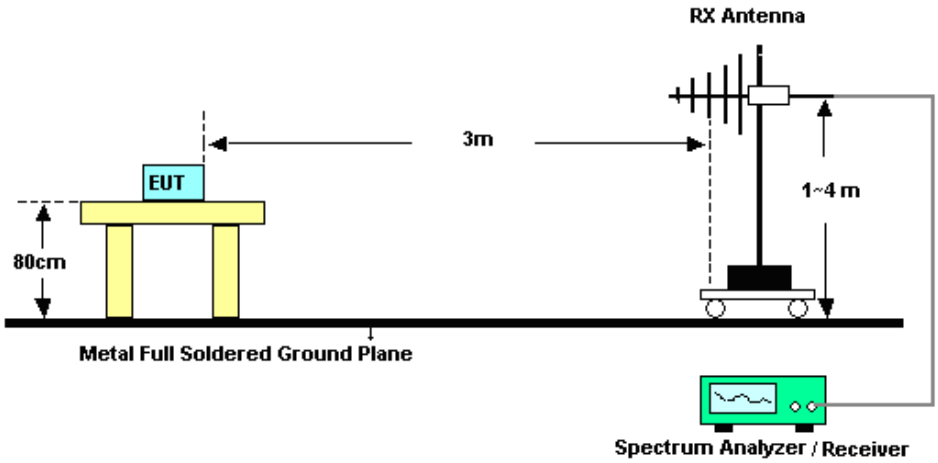
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better 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

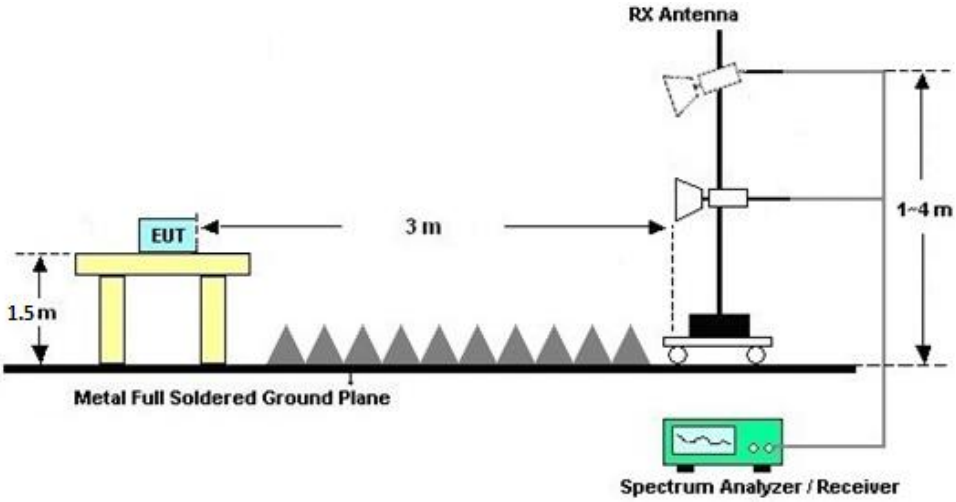
For radiated emissions below 30MHz



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.

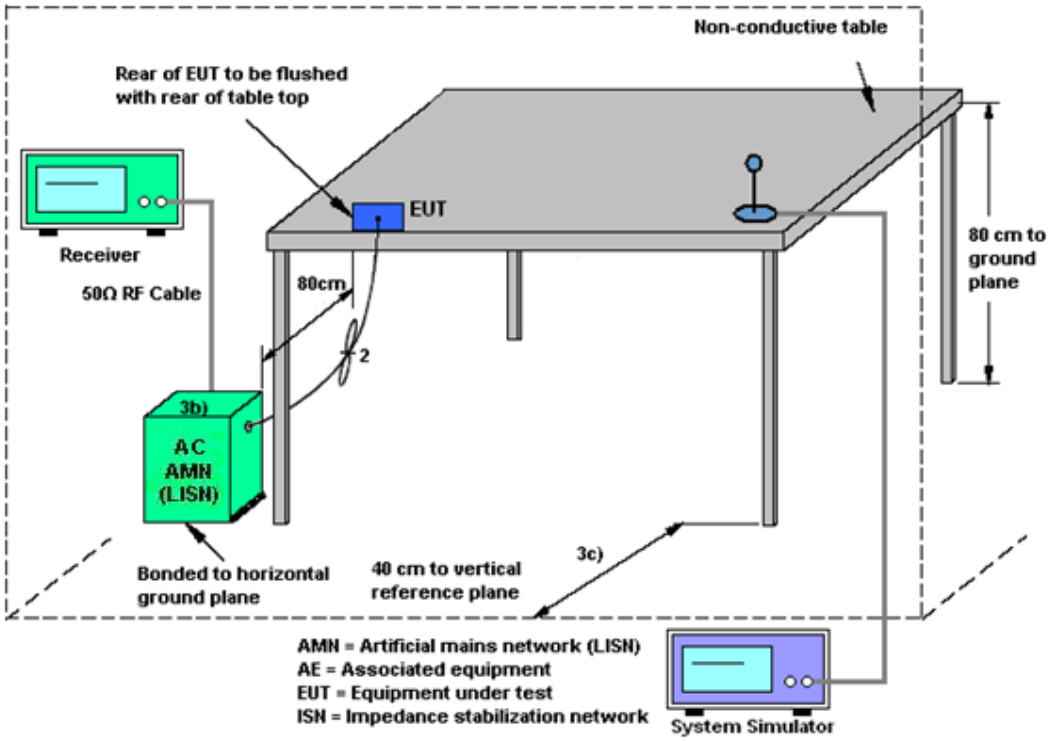
3.6.2 Measuring Instruments

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. 8 (dBi)	Ant. 10 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
2.4 GHz	-0.83	-1.50	-0.83	1.85	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	101078	10Hz~40GHz	Apr. 02, 2025	May 03, 2025~ Jun, 03, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	May 03, 2025~ Jun, 03, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 14,2024	May 03, 2025~ Jun, 03, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 03, 2024	May 13, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2024	May 13, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec.25, 2024	May 13, 2025	Dec. 24, 2025	Conduction (CO02-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 02, 2025	May 03, 2025~ May 20, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
EXA Signal Analyzer	KEYSIGHT	N9010B	MY59071191	10KHz-44GHz	Apr. 02, 2025	May 03, 2025~ May 20, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	May 03, 2025~ May 20, 2025	Dec. 27, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	May 03, 2025~ May 20, 2025	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridege Guide Antenna	ETS-Lindgren	Burgeon-3117	00240107	1GHz~18GHz	Jul. 13, 2024	May 03, 2025~ May 20, 2025	Jul. 12, 2025	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	May 03, 2025~ May 20, 2025	Jul. 02, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 03, 2025	May 03, 2025~ May 20, 2025	Apr. 02, 2026	Radiation (03CH03-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz ~3000MHz	Apr. 02, 2025	May 03, 2025~ May 20, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	May 03, 2025~ May 20, 2025	Oct. 13, 2025	Radiation (03CH03-SZ)
HF Amplifier	Keysight	83017A	MY53270357	500MHz~26.5GHz	Apr. 02, 2025	May 03, 2025~ May 20, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2024	May 03, 2025~ May 20, 2025	Oct. 17, 2025	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 03, 2025~ May 20, 2025	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 03, 2025~ May 20, 2025	NCR	Radiation (03CH03-SZ)

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 Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Conducted Power Spectral Density	±1.32 dB
Frequency	±1.3 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5 dB

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

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

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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

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

Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	He Qingsheng	Temperature:	21~25	°C
Test Date:	2025/5/3~2025/6/3	Relative Humidity:	51~54	%

Report Number : FR542529C

TEST RESULTS DATA
Peak Output Power

2.4GHz Band Single Antenna																
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
					Ant10	Ant8	SUM	Ant10	Ant8	Ant10	Ant8	Ant10	Ant8	Ant10	Ant8	
11b	1Mbps	1	1	2412	21.74	21.10		30.00	30.00	-1.50	-0.83	20.24	20.27	36.00	36.00	Pass
11b	1Mbps	1	6	2437	21.89	21.81		30.00	30.00	-1.50	-0.83	20.39	20.98	36.00	36.00	Pass
11b	1Mbps	1	11	2462	21.26	21.08		30.00	30.00	-1.50	-0.83	19.76	20.25	36.00	36.00	Pass
11g	6Mbps	1	1	2412	24.76	24.94		30.00	30.00	-1.50	-0.83	23.26	24.11	36.00	36.00	Pass
11g	6Mbps	1	6	2437	25.17	25.97		30.00	30.00	-1.50	-0.83	23.67	25.14	36.00	36.00	Pass
11g	6Mbps	1	11	2462	24.13	24.63		30.00	30.00	-1.50	-0.83	22.63	23.80	36.00	36.00	Pass
HT20	MCS0	2	1	2412	24.40	24.84	27.64	30.00		-0.83		26.81		36.00		Pass
HT20	MCS0	2	6	2437	24.91	25.67	28.32	30.00		-0.83		27.49		36.00		Pass
HT20	MCS0	2	11	2462	23.64	24.13	26.90	30.00		-0.83		26.07		36.00		Pass
VHT20	MCS0	2	1	2412	24.23	24.70	27.48	30.00		-0.83		26.65		36.00		Pass
VHT20	MCS0	2	6	2437	24.77	25.52	28.17	30.00		-0.83		27.34		36.00		Pass
VHT20	MCS0	2	11	2462	23.44	23.82	26.64	30.00		-0.83		25.81		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																		
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail	Setting	
					Ant10	Ant8	SUM	Ant10	Ant8	Ant10	Ant8	Ant10	Ant8	Ant10	Ant8		Ant 10	Ant 8
11b	1Mbps	1	1	2412	19.70	19.20		30.00	30.00	-1.50	-0.83	18.20	18.37	36.00	36.00	Pass	19.00	19.00
11b	1Mbps	1	6	2437	19.80	19.70		30.00	30.00	-1.50	-0.83	18.30	18.87	36.00	36.00	Pass	19.00	19.00
11b	1Mbps	1	11	2462	19.30	19.20		30.00	30.00	-1.50	-0.83	17.80	18.37	36.00	36.00	Pass	19.00	19.00
11g	6Mbps	1	1	2412	19.30	19.00		30.00	30.00	-1.50	-0.83	17.80	18.17	36.00	36.00	Pass	19.00	19.00
11g	6Mbps	1	6	2437	19.40	19.70		30.00	30.00	-1.50	-0.83	17.90	18.87	36.00	36.00	Pass	19.00	19.00
11g	6Mbps	1	11	2462	19.00	19.10		30.00	30.00	-1.50	-0.83	17.50	18.27	36.00	36.00	Pass	19.00	19.00
HT20	MCS0	2	1	2412	18.70	18.60	21.66	30.00		-0.83		20.83		36.00		Pass	18.50	
HT20	MCS0	2	6	2437	18.80	19.30	22.07	30.00		-0.83		21.24		36.00		Pass	18.50	
HT20	MCS0	2	11	2462	18.50	18.60	21.56	30.00		-0.83		20.73		36.00		Pass	18.50	
VHT20	MCS0	2	1	2412	18.30	18.10	21.21	30.00		-0.83		20.38		36.00		Pass	18.00	
VHT20	MCS0	2	6	2437	18.30	18.80	21.57	30.00		-0.83		20.74		36.00		Pass	18.00	
VHT20	MCS0	2	11	2462	18.00	18.10	21.06	30.00		-0.83		20.23		36.00		Pass	18.00	

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

Report Number : FR542529C

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
						Ant10	Ant8	SUM	Ant10	Ant8	Ant10	Ant8	Ant10	Ant8	Ant10	Ant8	
HE20	MCS0	2	1	2412	Full	24.55	25.13	27.86	30.00		-0.83		27.03		36.00		Pass
HE20	MCS0	2	1	2412	26/0	21.95	21.66	24.82	30.00		-0.83		23.99		36.00		Pass
HE20	MCS0	2	1	2412	52/37	22.26	21.72	25.01	30.00		-0.83		24.18		36.00		Pass
HE20	MCS0	2	1	2412	106/53	23.34	22.89	26.13	30.00		-0.83		25.30		36.00		Pass
HE20	MCS0	2	6	2437	Full	24.95	26.13	28.59	30.00		-0.83		27.76		36.00		Pass
HE20	MCS0	2	11	2462	Full	23.63	23.96	26.81	30.00		-0.83		25.98		36.00		Pass
HE20	MCS0	2	11	2462	26/8	20.13	19.61	22.89	30.00		-0.83		22.06		36.00		Pass
HE20	MCS0	2	11	2462	52/40	20.67	20.47	23.58	30.00		-0.83		22.75		36.00		Pass
HE20	MCS0	2	11	2462	106/54	22.71	22.85	25.79	30.00		-0.83		24.96		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.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant10	Ant8	SUM	Ant10	Ant8	Ant10	Ant8	Ant10	Ant8	Ant10	Ant8	
HE20	MCS0	2	1	2412	Full	18.40	18.20	21.31	30.00		-0.83		20.48		36.00		Pass
HE20	MCS0	2	1	2412	26/0	8.67	8.29	11.49	30.00		-0.83		10.66		36.00		Pass
HE20	MCS0	2	1	2412	52/37	11.66	11.08	14.39	30.00		-0.83		13.56		36.00		Pass
HE20	MCS0	2	1	2412	106/53	13.78	13.32	16.57	30.00		-0.83		15.74		36.00		Pass
HE20	MCS0	2	6	2437	Full	18.50	19.00	21.77	30.00		-0.83		20.94		36.00		Pass
HE20	MCS0	2	11	2462	Full	18.00	18.20	21.11	30.00		-0.83		20.28		36.00		Pass
HE20	MCS0	2	11	2462	26/8	7.43	7.61	10.53	30.00		-0.83		9.70		36.00		Pass
HE20	MCS0	2	11	2462	52/40	10.60	10.34	13.48	30.00		-0.83		12.65		36.00		Pass
HE20	MCS0	2	11	2462	106/54	13.48	13.97	16.74	30.00		-0.83		15.91		36.00		Pass

Setting	
Ant 10	Ant 8
18.00	
8.00	
11.00	
14.00	
18.00	
18.00	
8.00	
11.00	
14.50	

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

Report Number : FR542529C

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
						Ant10	Ant8	SUM	Ant10	Ant8	Ant10	Ant8	Ant10	Ant8	Ant10	Ant8	
EHT20	MCS0	2	1	2412	Full	24.83	25.44	28.16	30.00		-0.83		27.33		36.00		Pass
EHT20	MCS0	2	1	2412	26/0	22.09	21.80	24.96	30.00		-0.83		24.13		36.00		Pass
EHT20	MCS0	2	1	2412	52/37	22.40	21.86	25.15	30.00		-0.83		24.32		36.00		Pass
EHT20	MCS0	2	1	2412	106/53	23.48	23.03	26.27	30.00		-0.83		25.44		36.00		Pass
EHT20	MCS0	2	1	2412	25+26	22.22	22.26	25.25	30.00		-0.83		24.42		36.00		Pass
EHT20	MCS0	2	1	2412	106+26	24.06	23.91	27.00	30.00		-0.83		26.17		36.00		Pass
EHT20	MCS0	2	6	2437	Full	25.16	26.22	28.73	30.00		-0.83		27.90		36.00		Pass
EHT20	MCS0	2	11	2462	Full	23.89	24.37	27.15	30.00		-0.83		26.32		36.00		Pass
EHT20	MCS0	2	11	2462	26/8	20.27	19.75	23.03	30.00		-0.83		22.20		36.00		Pass
EHT20	MCS0	2	11	2462	52/40	20.81	20.61	23.72	30.00		-0.83		22.89		36.00		Pass
EHT20	MCS0	2	11	2462	106/54	22.85	22.99	25.93	30.00		-0.83		25.10		36.00		Pass
EHT20	MCS0	2	11	2462	25+26	21.65	22.02	24.85	30.00		-0.83		24.02		36.00		Pass
EHT20	MCS0	2	11	2462	106+26	23.14	23.43	26.30	30.00		-0.83		25.47		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.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail	Setting	
						Ant10	Ant8	SUM	Ant10	Ant8	Ant10	Ant8	Ant10	Ant8	Ant10	Ant8		Ant 10	Ant 8
EHT20	MCS0	2	1	2412	Full	19.00	18.80	21.91	30.00		-0.83		21.08		36.00		Pass	18.50	
EHT20	MCS0	2	1	2412	26/0	8.75	8.37	11.57	30.00		-0.83		10.74		36.00		Pass	8.00	
EHT20	MCS0	2	1	2412	52/37	11.74	11.16	14.47	30.00		-0.83		13.64		36.00		Pass	11.00	
EHT20	MCS0	2	1	2412	106/53	13.86	13.40	16.65	30.00		-0.83		15.82		36.00		Pass	14.00	
EHT20	MCS0	2	1	2412	52+26	13.73	13.66	16.71	30.00		-0.83		15.88		36.00		Pass	13.00	
EHT20	MCS0	2	1	2412	106+26	15.71	15.09	18.42	30.00		-0.83		17.59		36.00		Pass	15.00	
EHT20	MCS0	2	6	2437	Full	19.10	19.60	22.37	30.00		-0.83		21.54		36.00		Pass	18.50	
EHT20	MCS0	2	11	2462	Full	18.60	18.80	21.71	30.00		-0.83		20.88		36.00		Pass	18.50	
EHT20	MCS0	2	11	2462	26/8	7.51	7.69	10.61	30.00		-0.83		9.78		36.00		Pass	8.00	
EHT20	MCS0	2	11	2462	52/40	10.68	10.42	13.56	30.00		-0.83		12.73		36.00		Pass	11.00	
EHT20	MCS0	2	11	2462	106/54	13.56	14.05	16.82	30.00		-0.83		15.99		36.00		Pass	14.50	
EHT20	MCS0	2	11	2462	52+26	12.57	12.83	15.71	30.00		-0.83		14.88		36.00		Pass	13.50	
EHT20	MCS0	2	11	2462	106+26	14.40	14.38	17.40	30.00		-0.83		16.57		36.00		Pass	15.00	

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

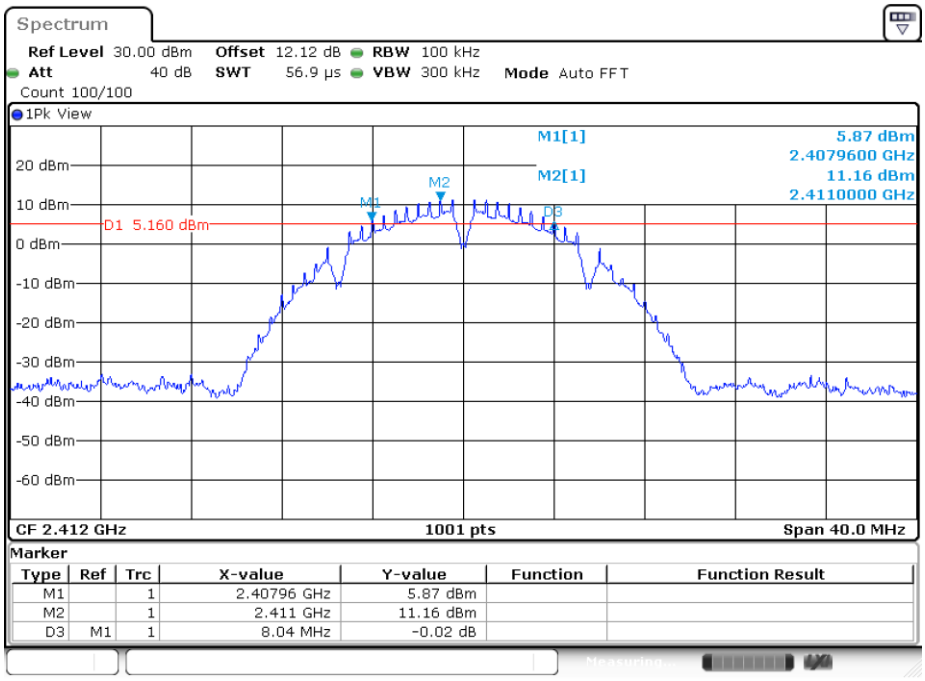
DTS Bandwidth

Test Result

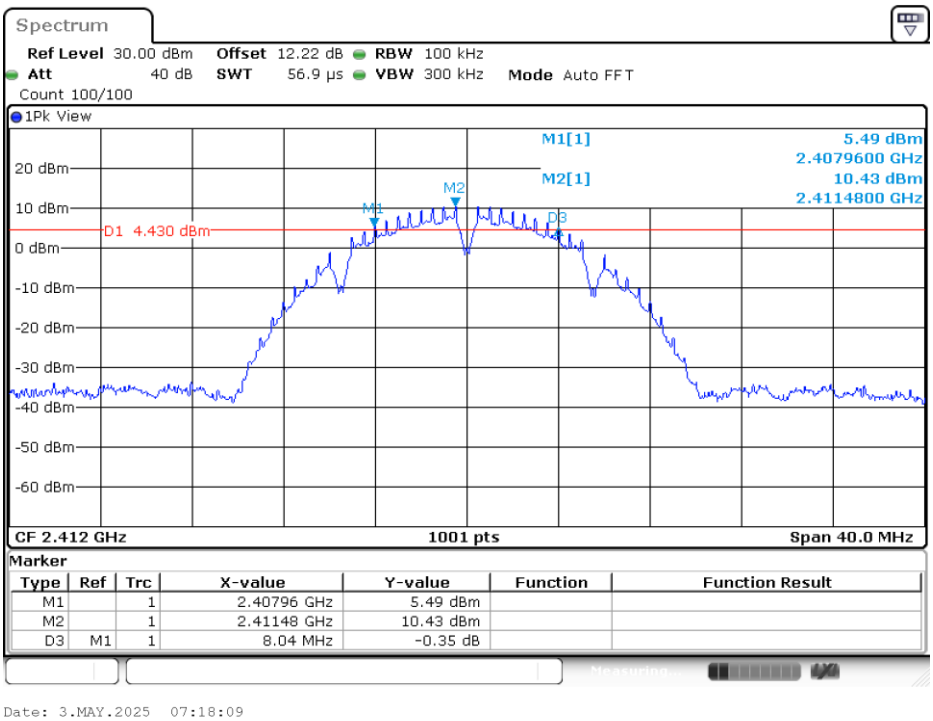
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant10	2412	8.04	2407.96	2416.00	0.5	PASS
	Ant8	2412	8.04	2407.96	2416.00	0.5	PASS
	Ant10	2437	7.52	2433.00	2440.52	0.5	PASS
	Ant8	2437	7.56	2432.96	2440.52	0.5	PASS
	Ant10	2462	8.04	2457.96	2466.00	0.5	PASS
	Ant8	2462	8.08	2457.96	2466.04	0.5	PASS
11G	Ant10	2412	15.44	2404.44	2419.88	0.5	PASS
	Ant8	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant10	2437	15.32	2429.44	2444.76	0.5	PASS
	Ant8	2437	15.72	2428.84	2444.56	0.5	PASS
	Ant10	2462	16.04	2453.84	2469.88	0.5	PASS
	Ant8	2462	15.72	2454.44	2470.16	0.5	PASS
11N20MIMO	Ant10	2412	16.52	2403.60	2420.12	0.5	PASS
	Ant8	2412	16.96	2403.20	2420.16	0.5	PASS
	Ant10	2437	16.16	2429.24	2445.40	0.5	PASS
	Ant8	2437	15.92	2428.60	2444.52	0.5	PASS
	Ant10	2462	16.52	2453.60	2470.12	0.5	PASS
	Ant8	2462	16.92	2453.84	2470.76	0.5	PASS
11BE20MIMO	Ant10	2412	17.40	2402.84	2420.24	0.5	PASS
	Ant8	2412	18.20	2402.88	2421.08	0.5	PASS
	Ant10	2437	18.28	2427.88	2446.16	0.5	PASS
	Ant8	2437	16.56	2427.96	2444.52	0.5	PASS
	Ant10	2462	18.08	2452.72	2470.80	0.5	PASS
	Ant8	2462	17.24	2453.88	2471.12	0.5	PASS

Test Graphs

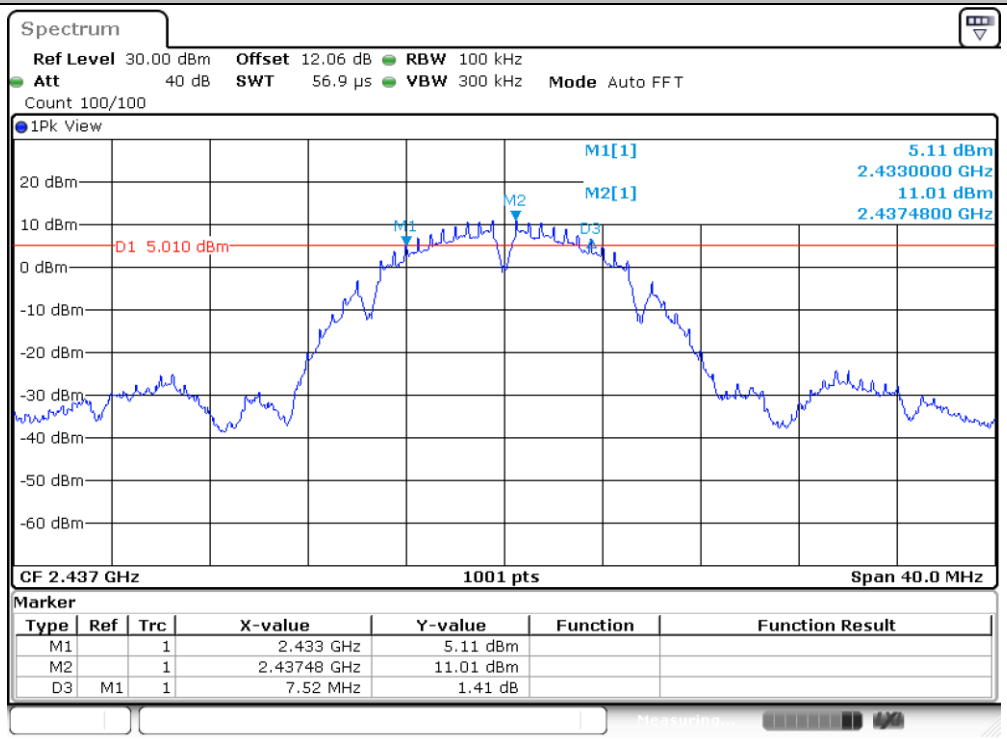
11B_Ant10_2412



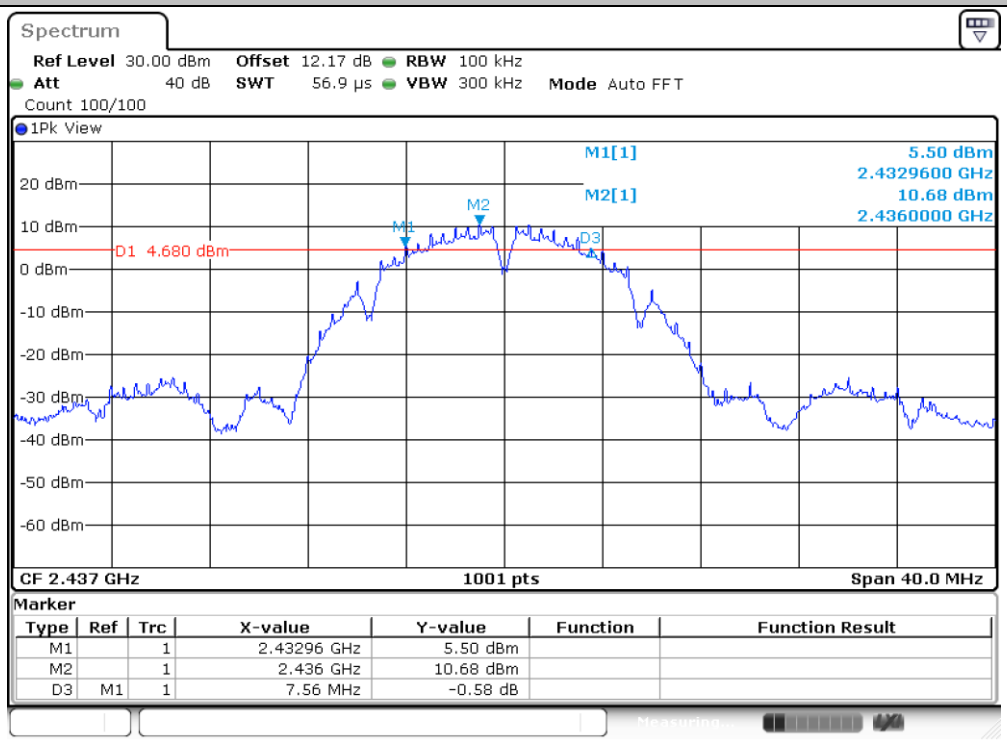
11B_Ant8_2412



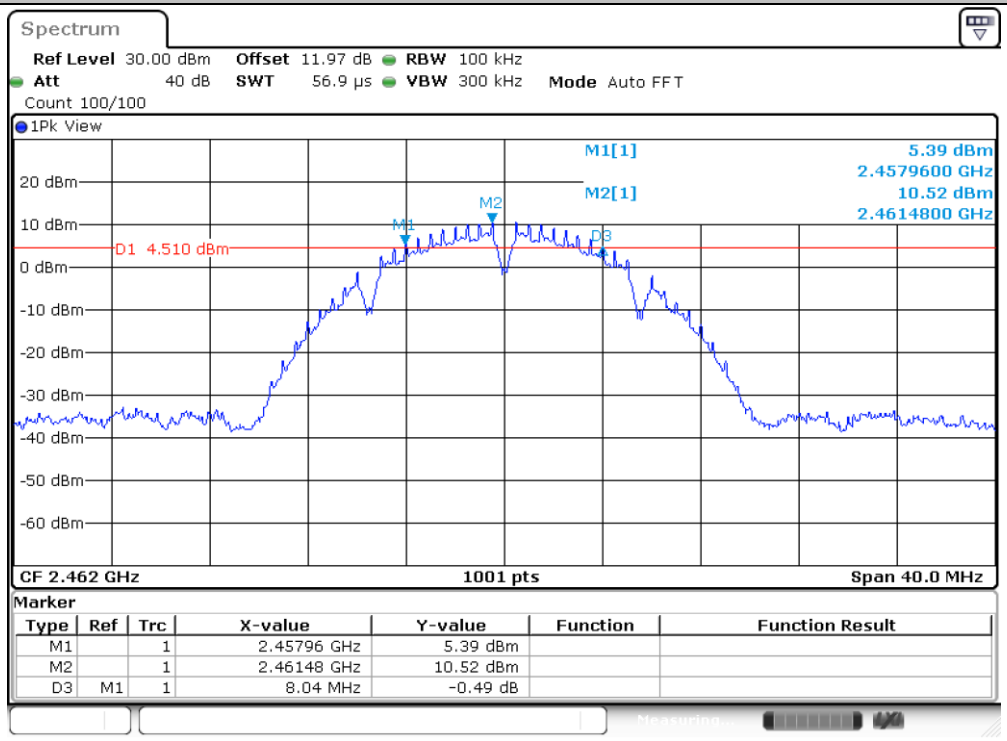
11B_Ant10_2437



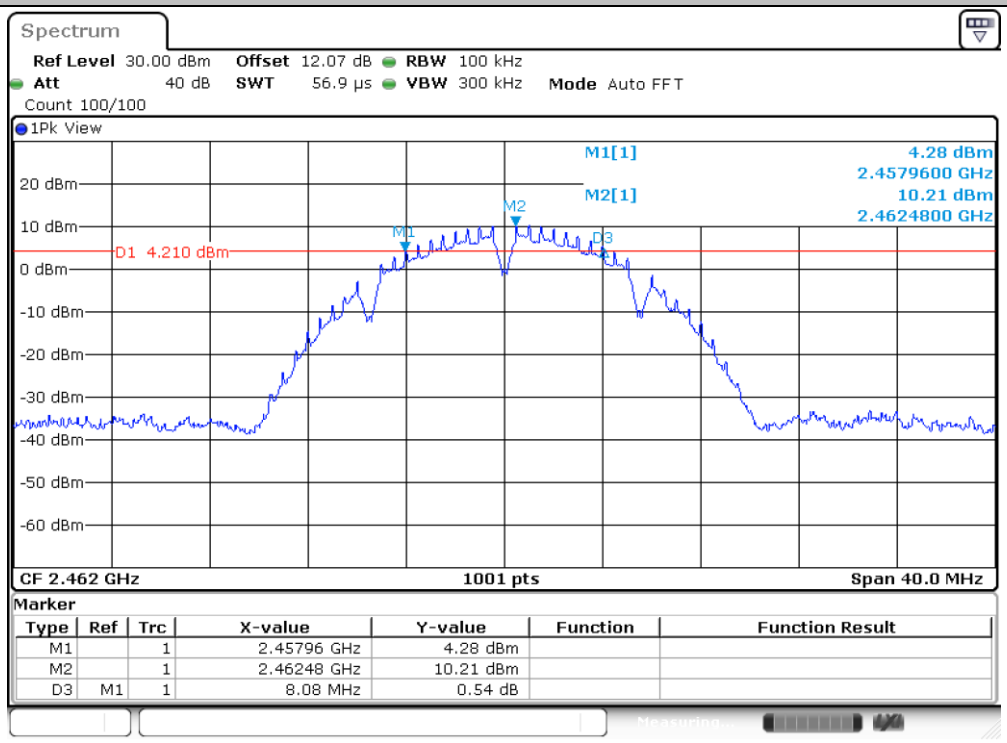
11B_Ant8_2437



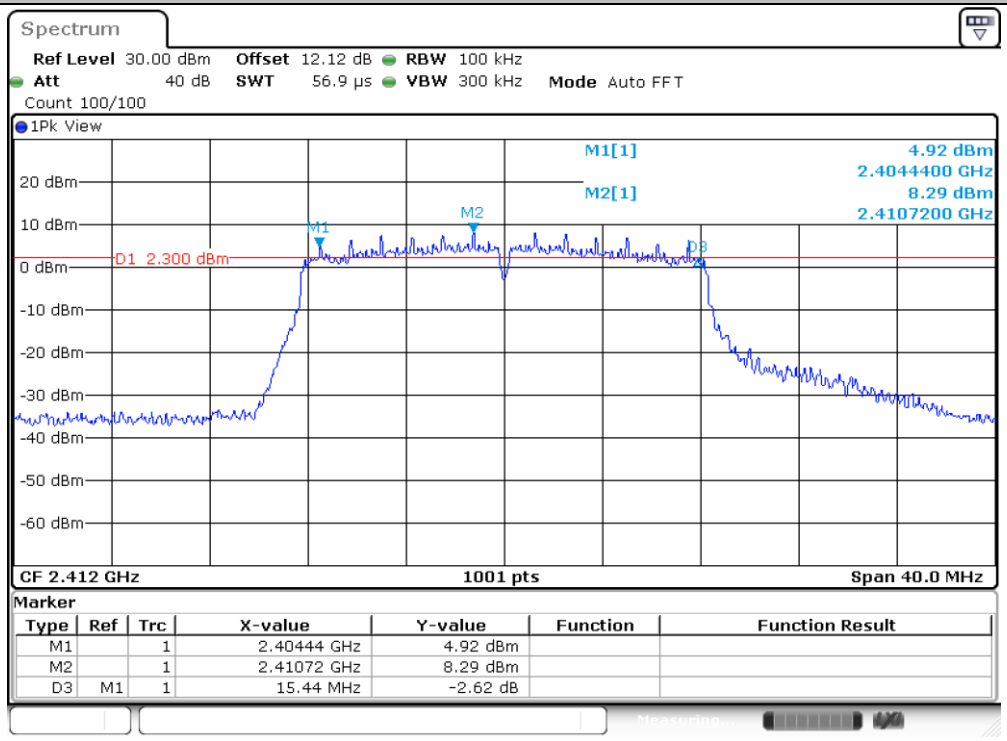
11B_Ant10_2462



11B_Ant8_2462



11G_Ant10_2412



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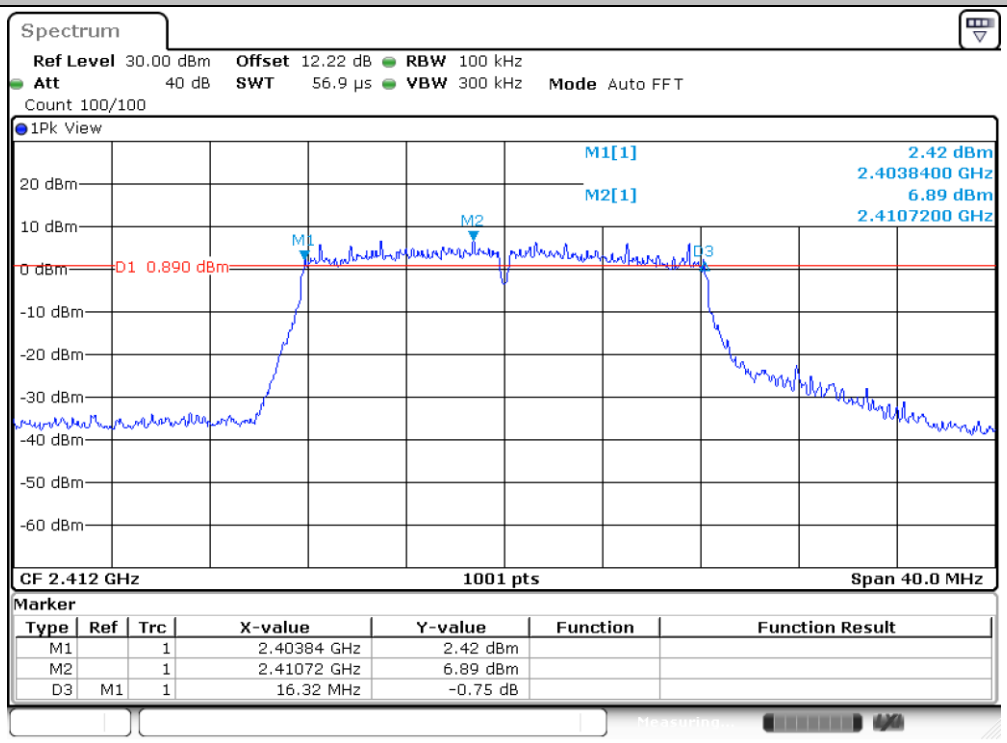

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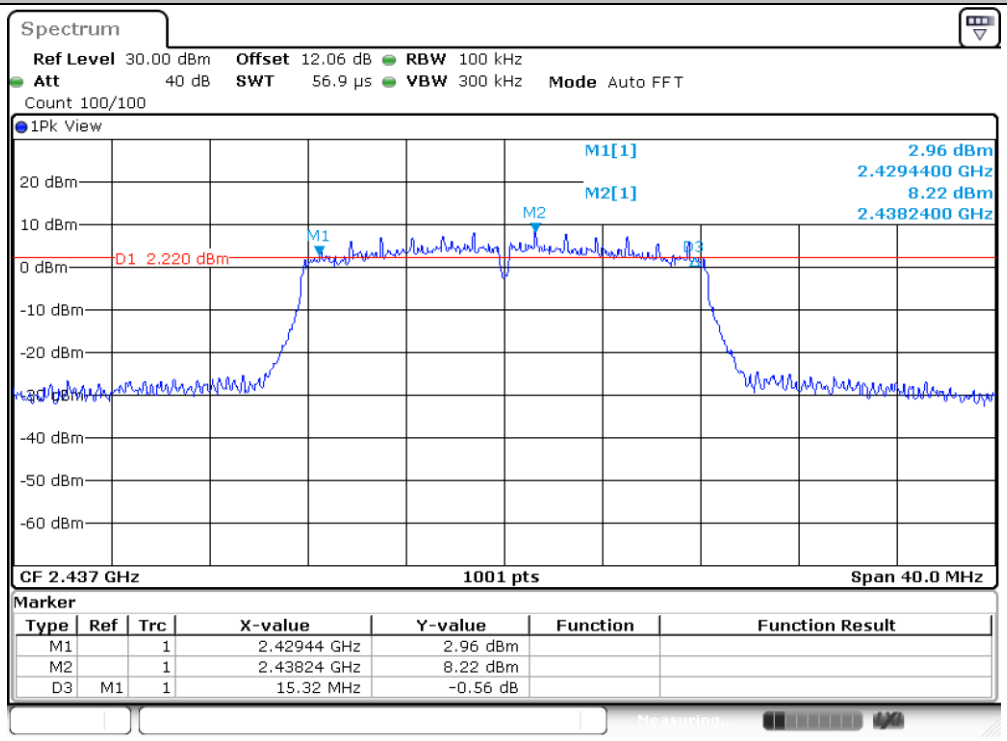

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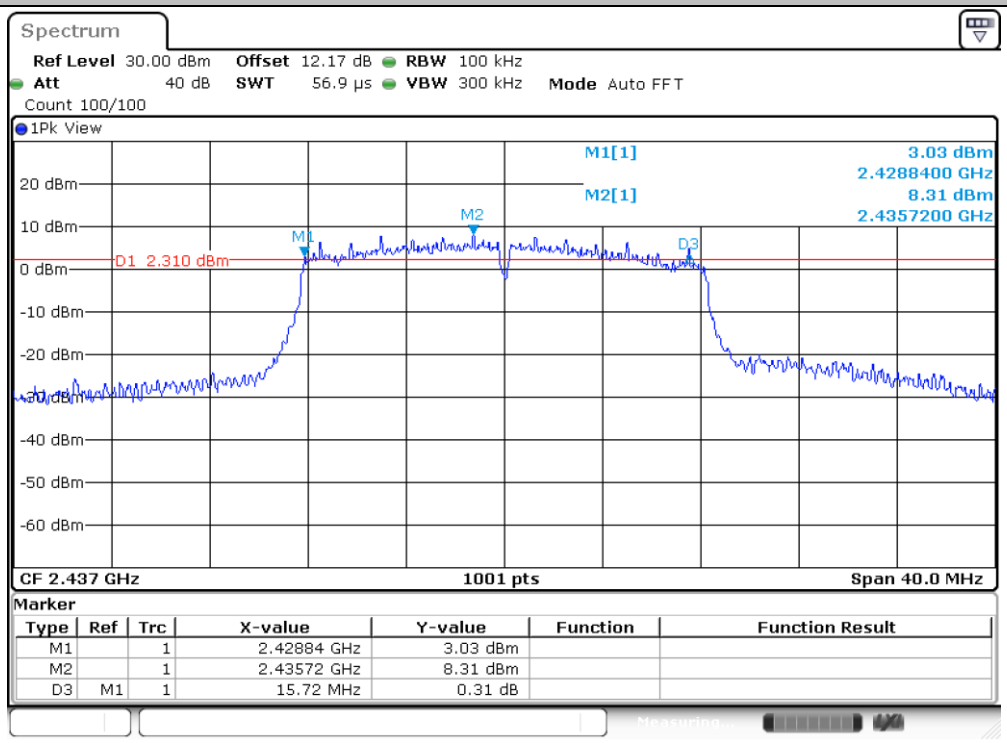

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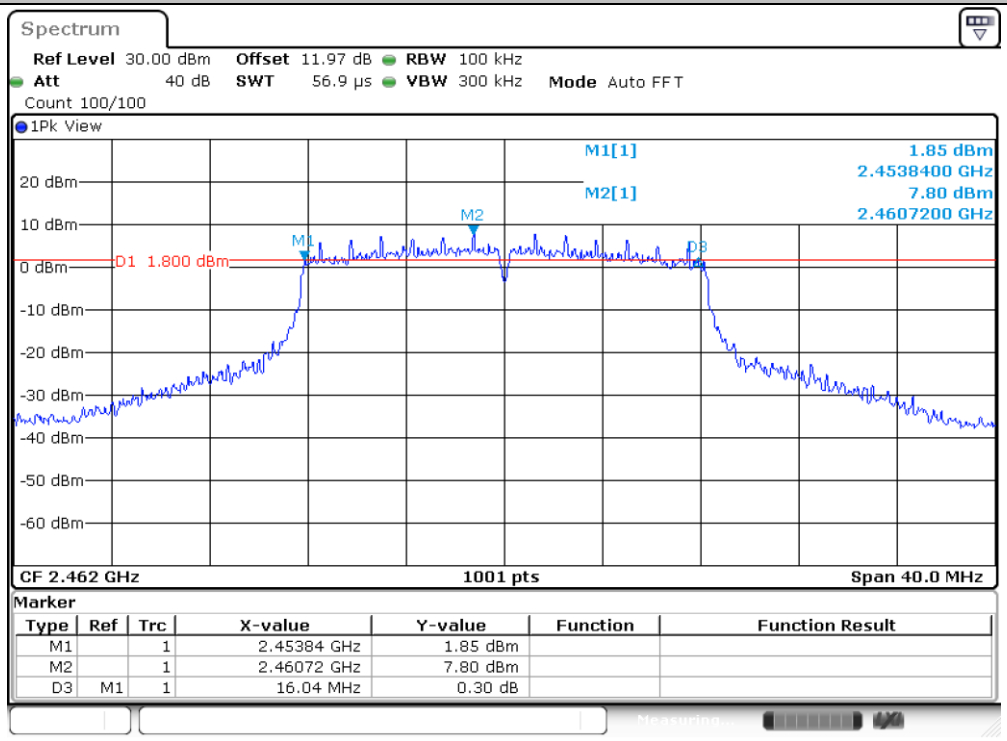
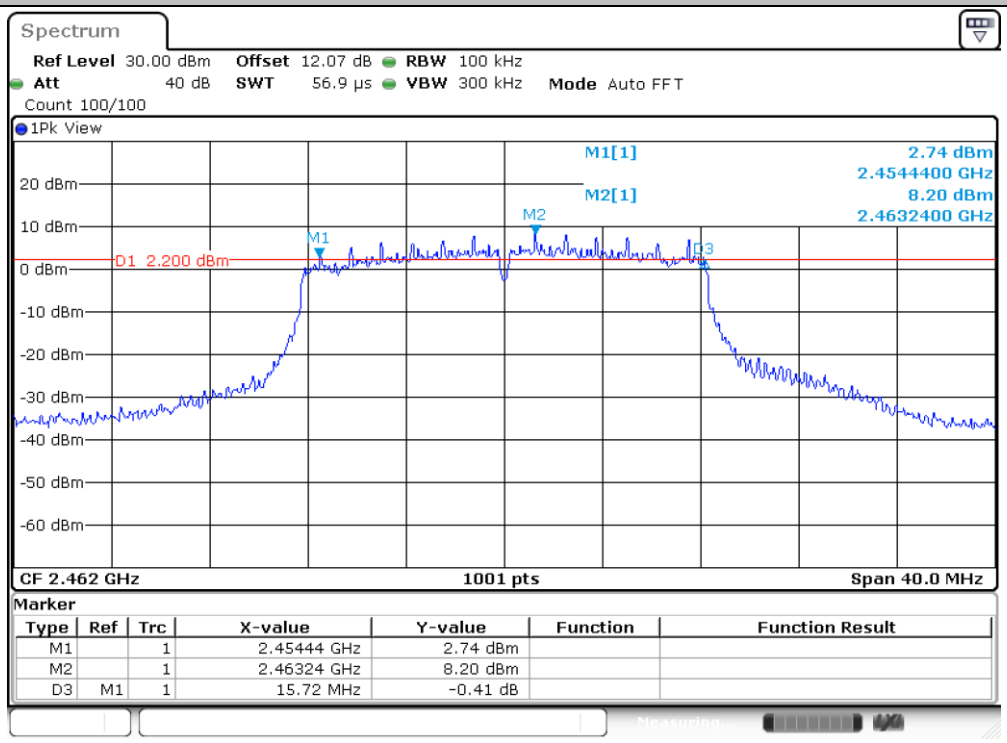
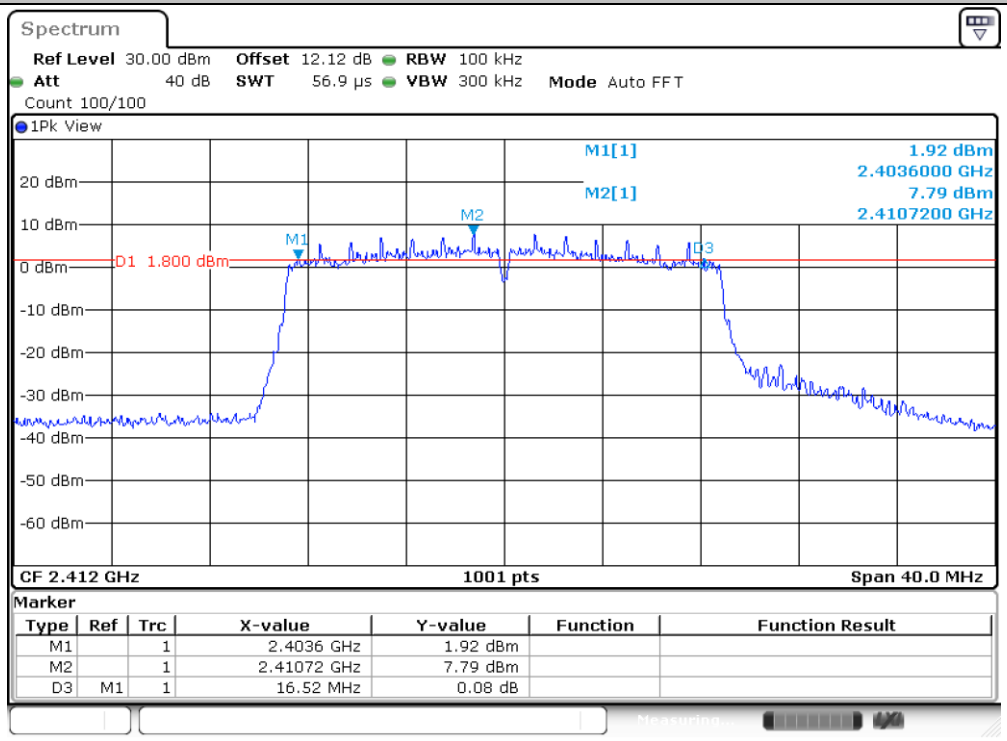


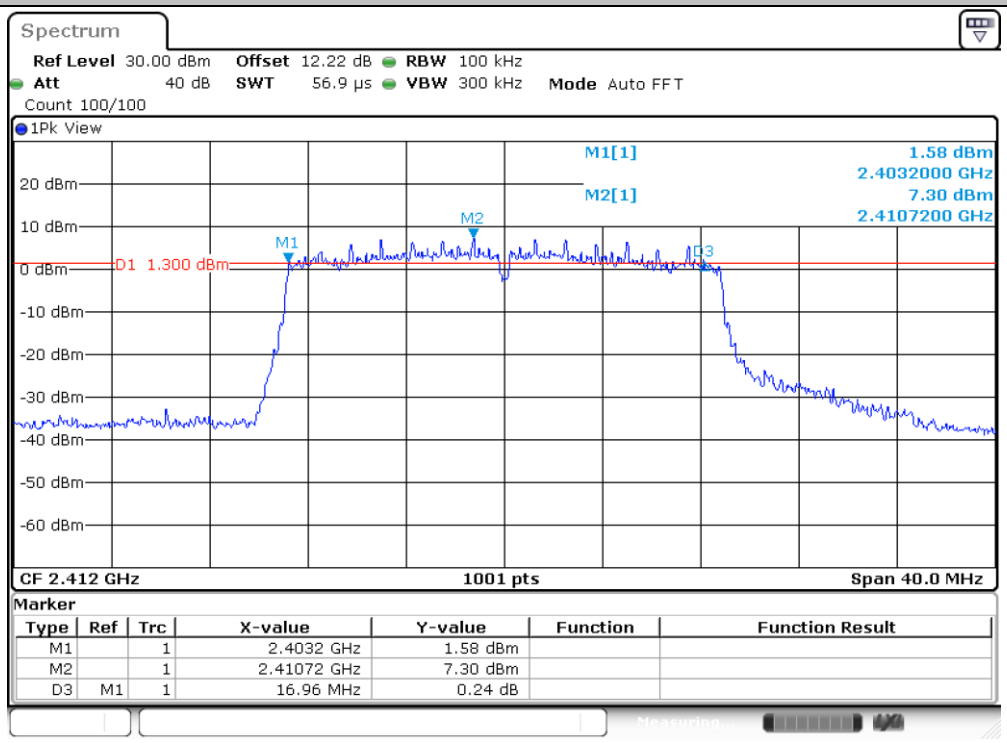
11G_Ant8_2462



11N20MIMO_Ant10_2412



11N20MIMO_Ant8_2412



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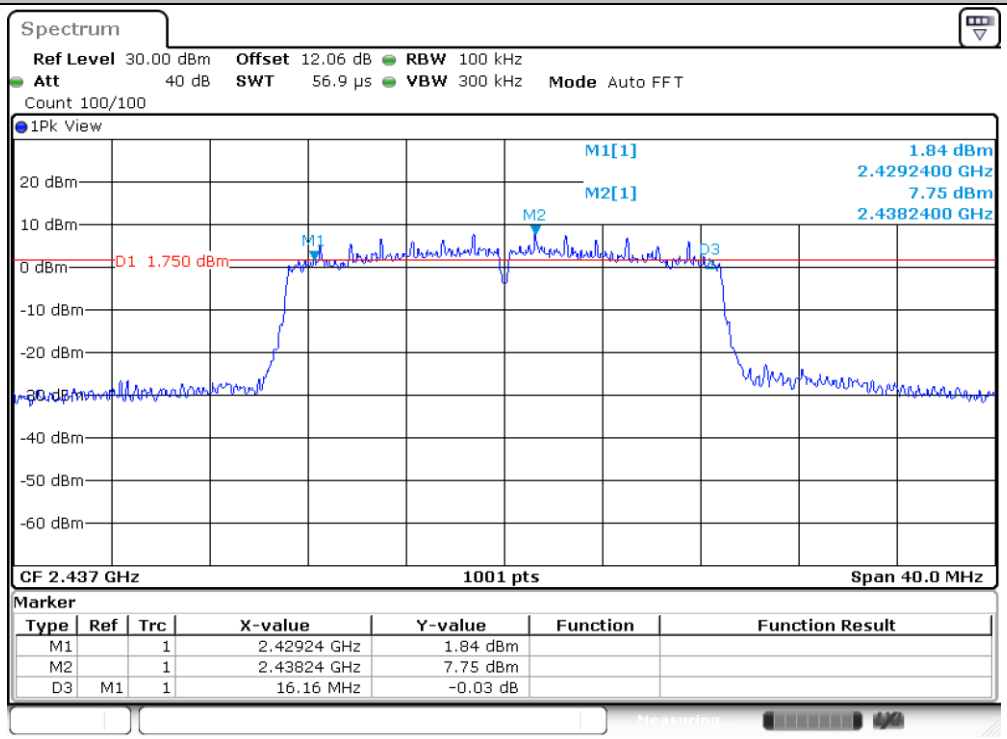

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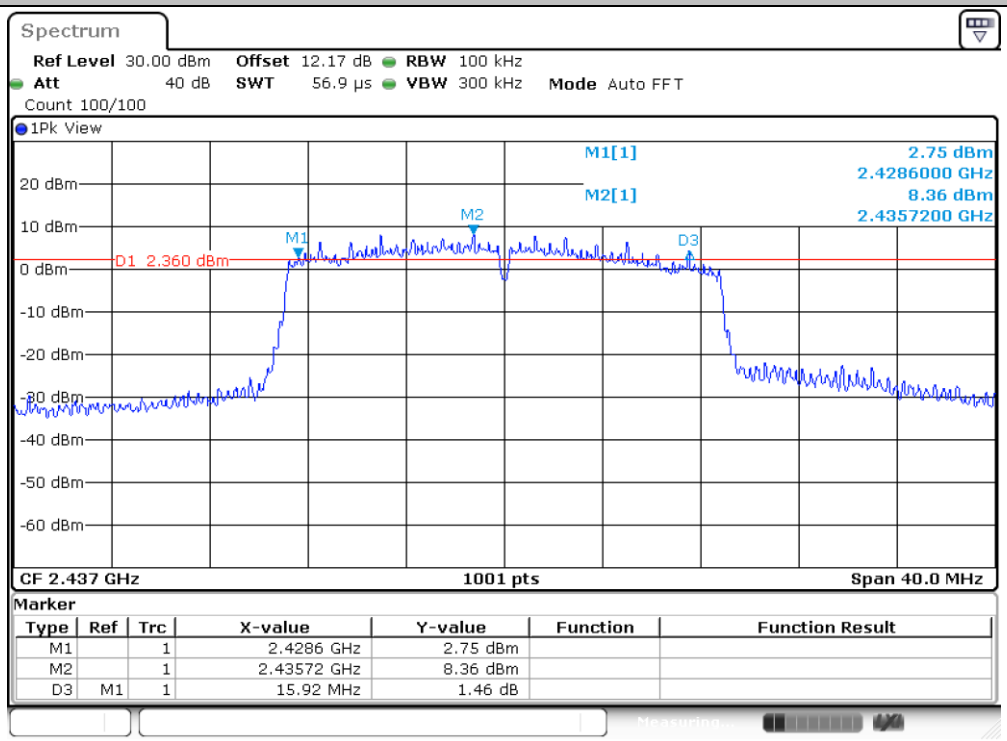

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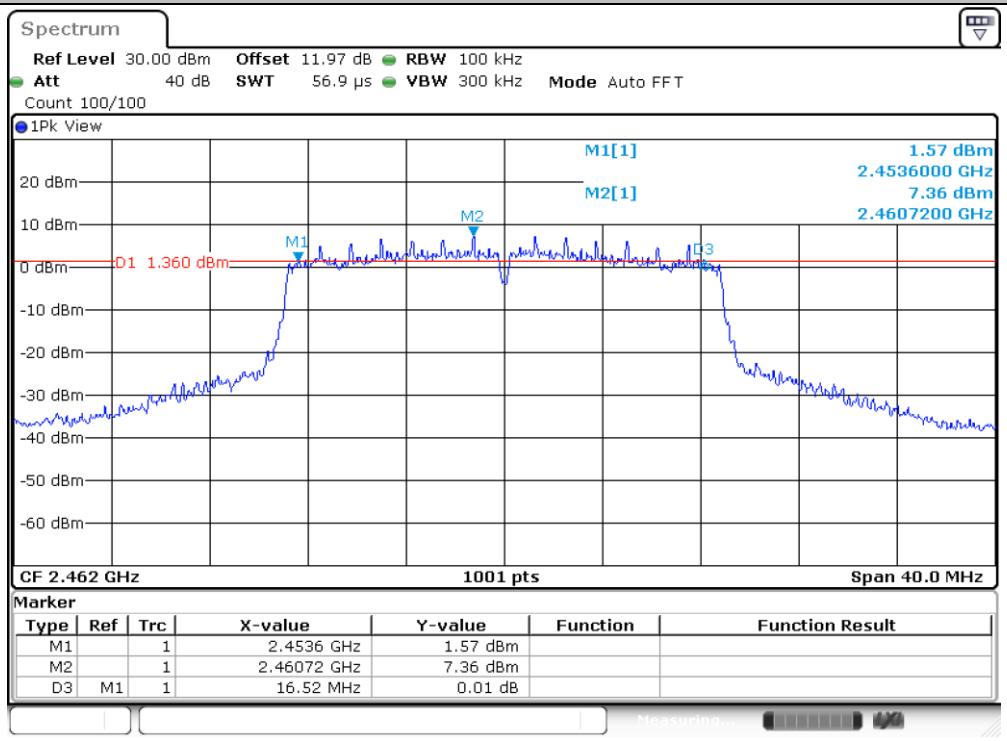

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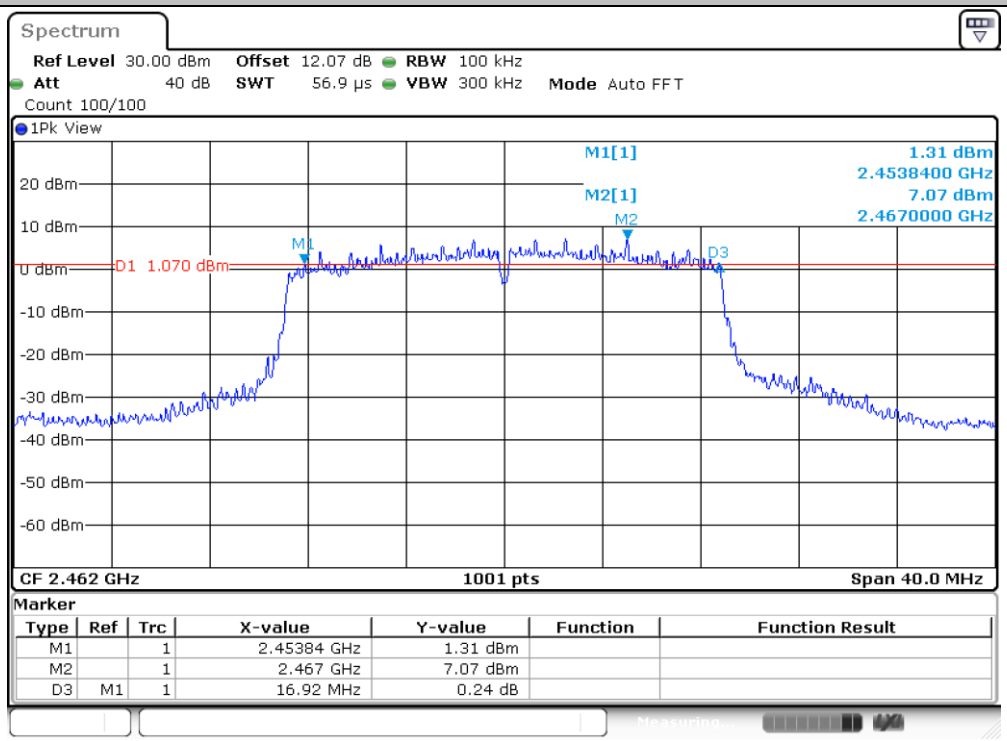

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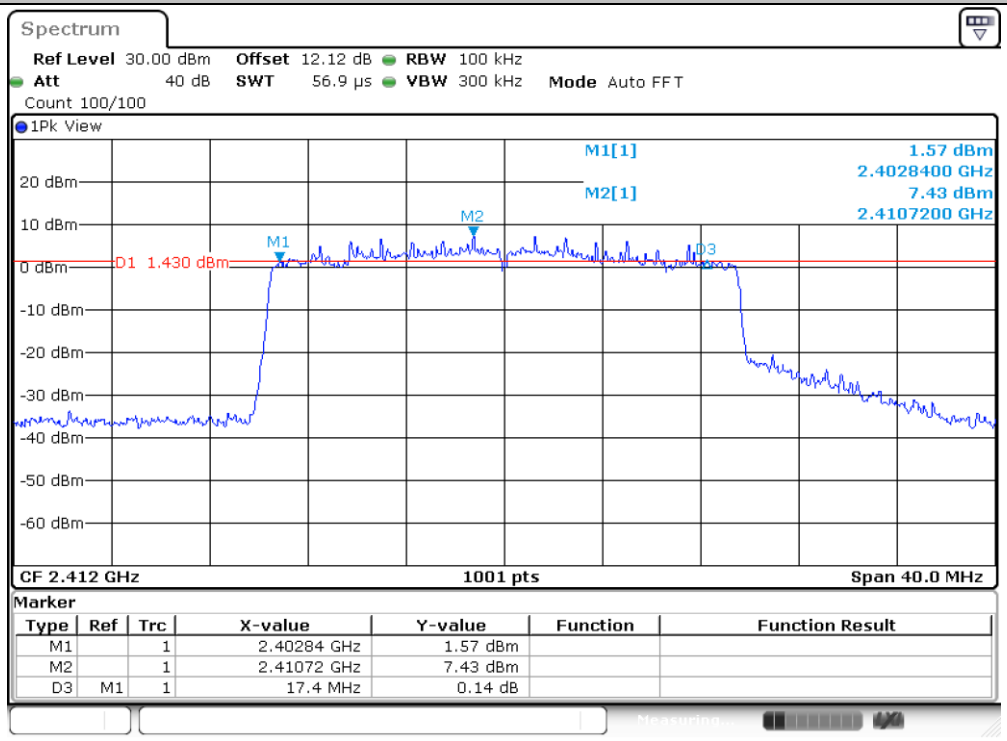

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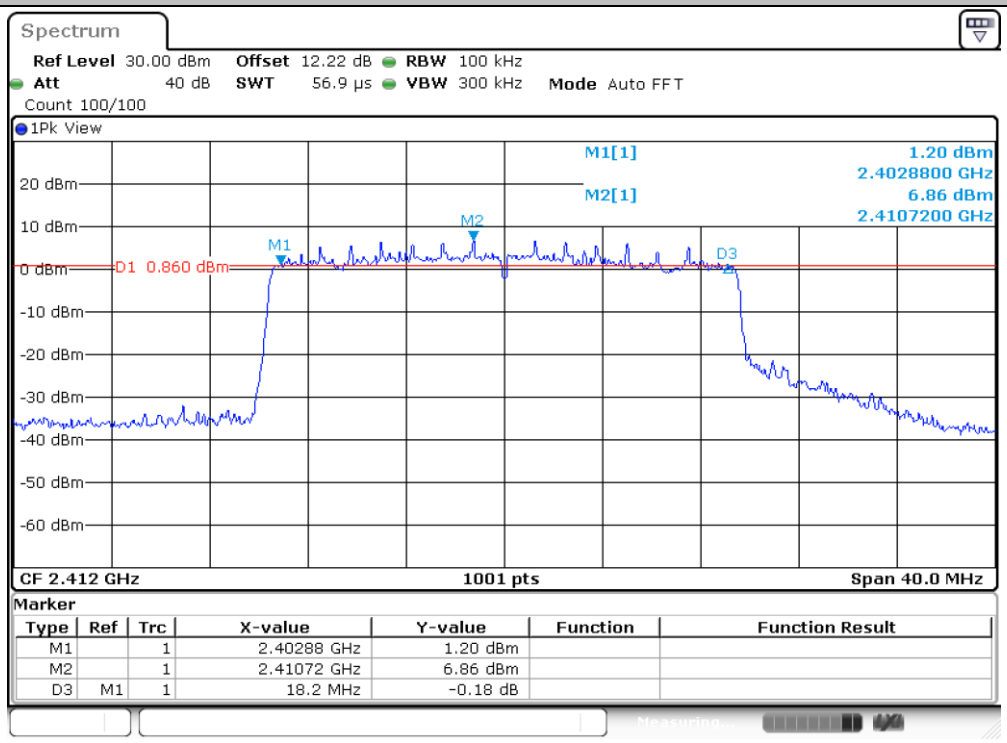

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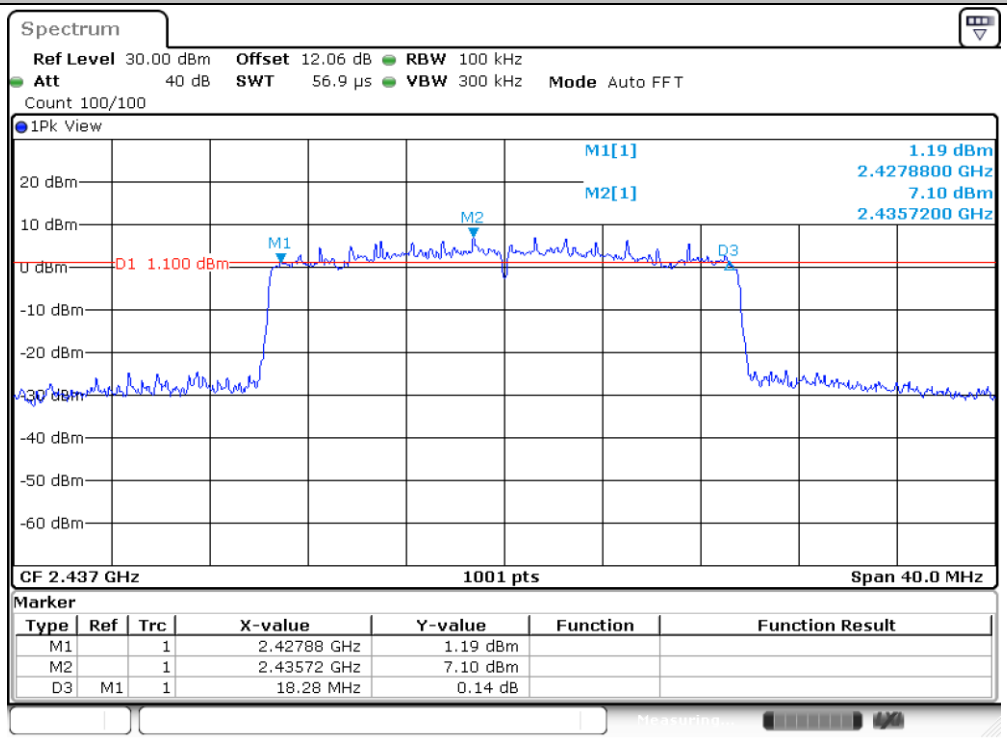

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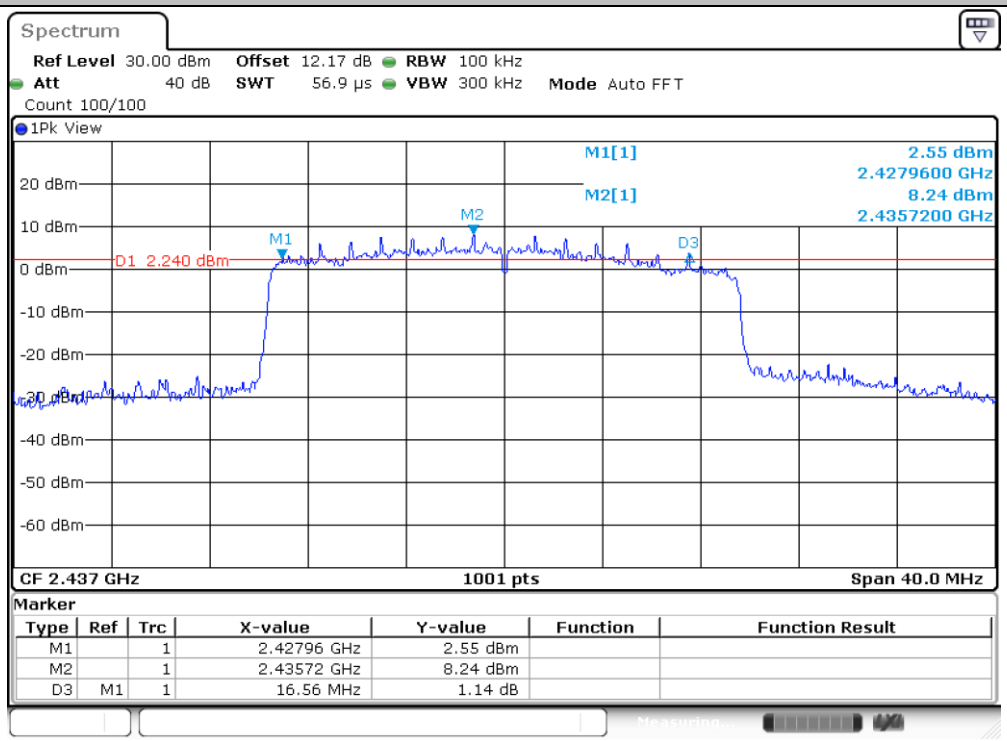

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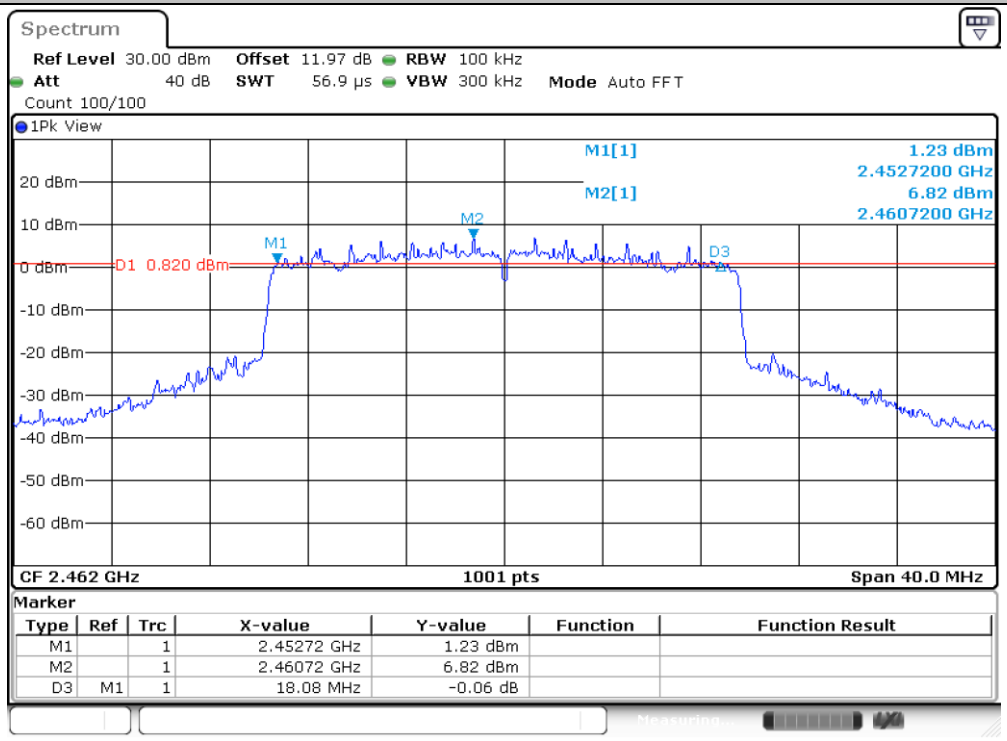
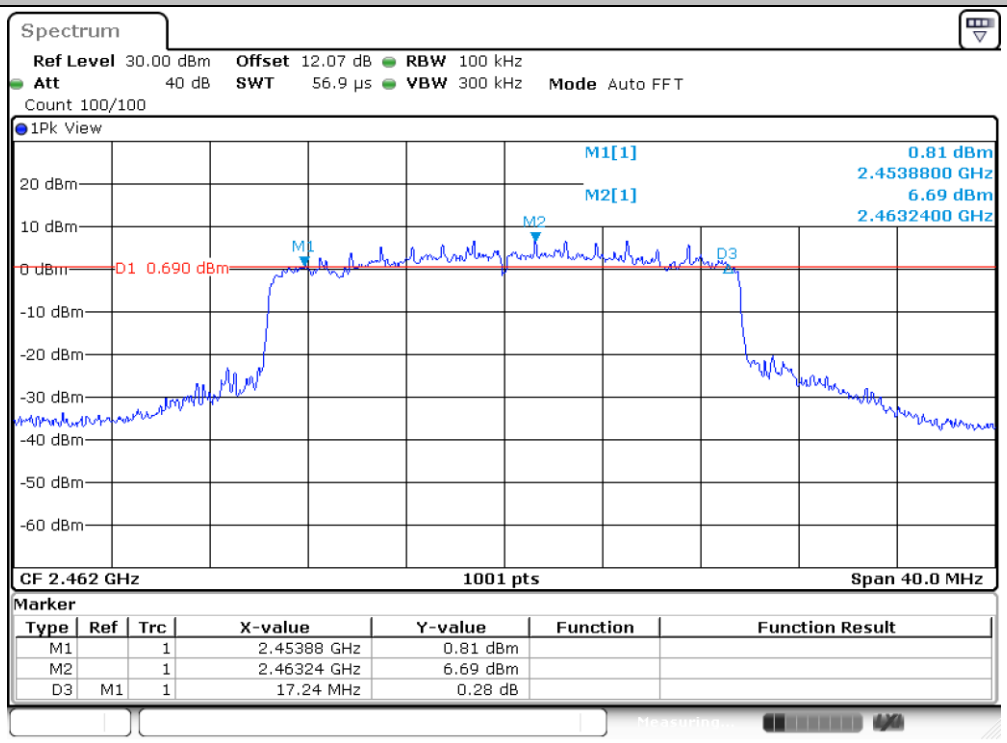


11BE20MIMO_Ant8_2462



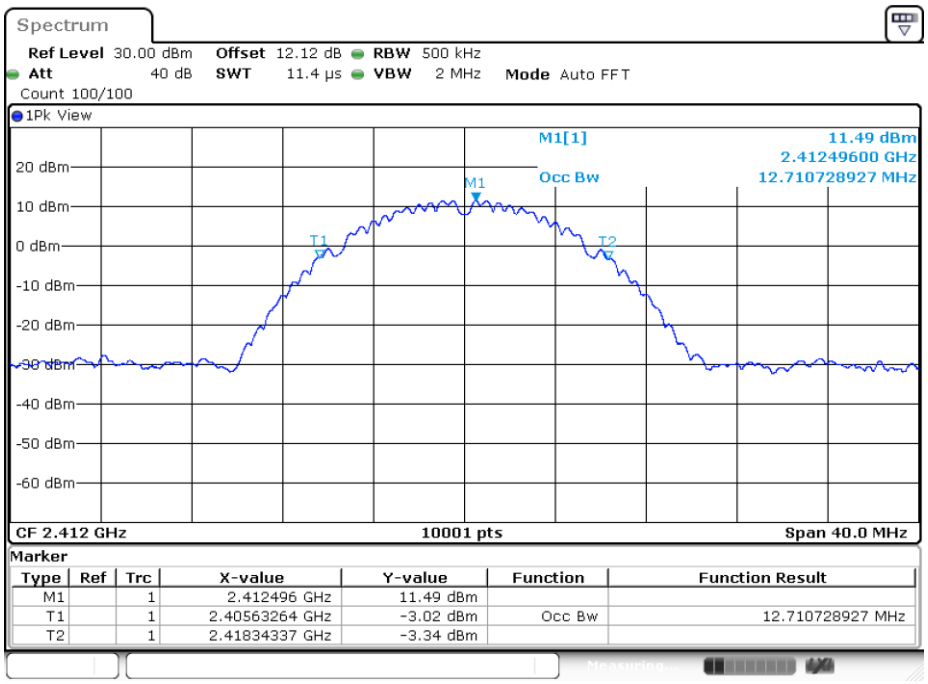
Occupied Channel Bandwidth

Test Result

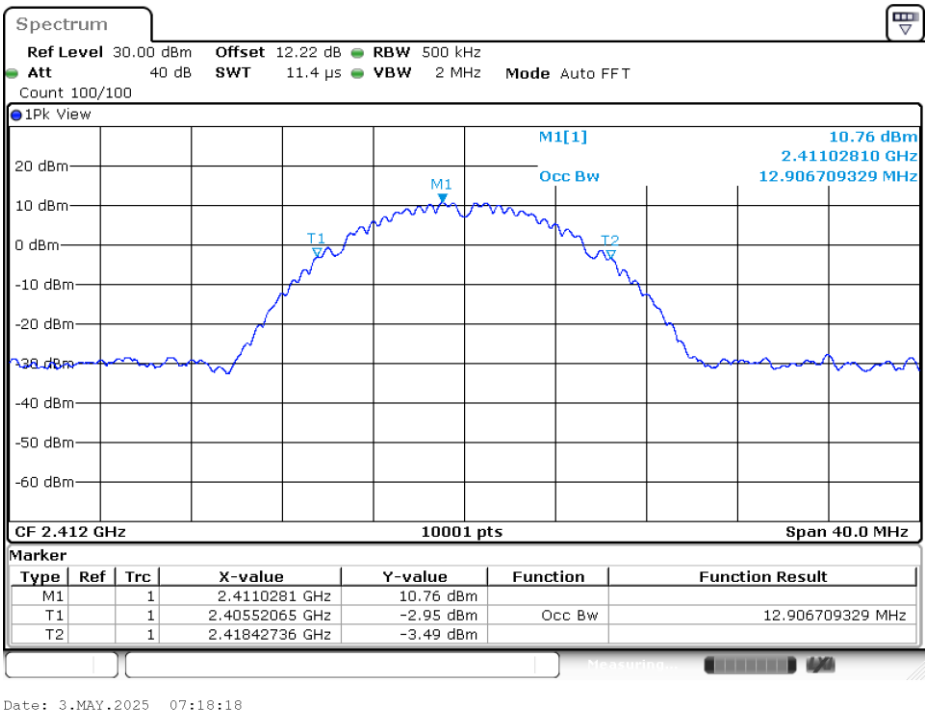
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant10	2412	12.711	2405.6326	2418.3434
	Ant8	2412	12.907	2405.5206	2418.4274
	Ant10	2437	12.015	2430.9886	2443.0034
	Ant8	2437	11.699	2430.9766	2442.6754
	Ant10	2462	12.895	2455.5046	2468.3994
	Ant8	2462	12.767	2455.7846	2468.5513
11G	Ant10	2412	16.538	2403.7328	2420.2712
	Ant8	2412	16.570	2403.7048	2420.2752
	Ant10	2437	16.582	2428.7368	2445.3192
	Ant8	2437	16.550	2428.6368	2445.1872
	Ant10	2462	16.602	2453.6888	2470.2912
	Ant8	2462	16.538	2453.7928	2470.3312
11N20MIMO	Ant10	2412	17.542	2403.2289	2420.7711
	Ant8	2412	17.506	2403.2129	2420.7191
	Ant10	2437	17.618	2428.2049	2445.8231
	Ant8	2437	17.450	2428.1769	2445.6271
	Ant10	2462	17.654	2453.1369	2470.7911
	Ant8	2462	17.482	2453.3169	2470.7991
11BE20MIMO	Ant10	2412	18.794	2402.5729	2421.3671
	Ant8	2412	18.938	2402.5209	2421.4591
	Ant10	2437	18.890	2427.5569	2446.4471
	Ant8	2437	18.826	2427.5049	2446.3311
	Ant10	2462	18.906	2452.5249	2471.4311
	Ant8	2462	18.854	2452.6049	2471.4591

Test Graphs

11B_Ant10_2412



11B_Ant8_2412



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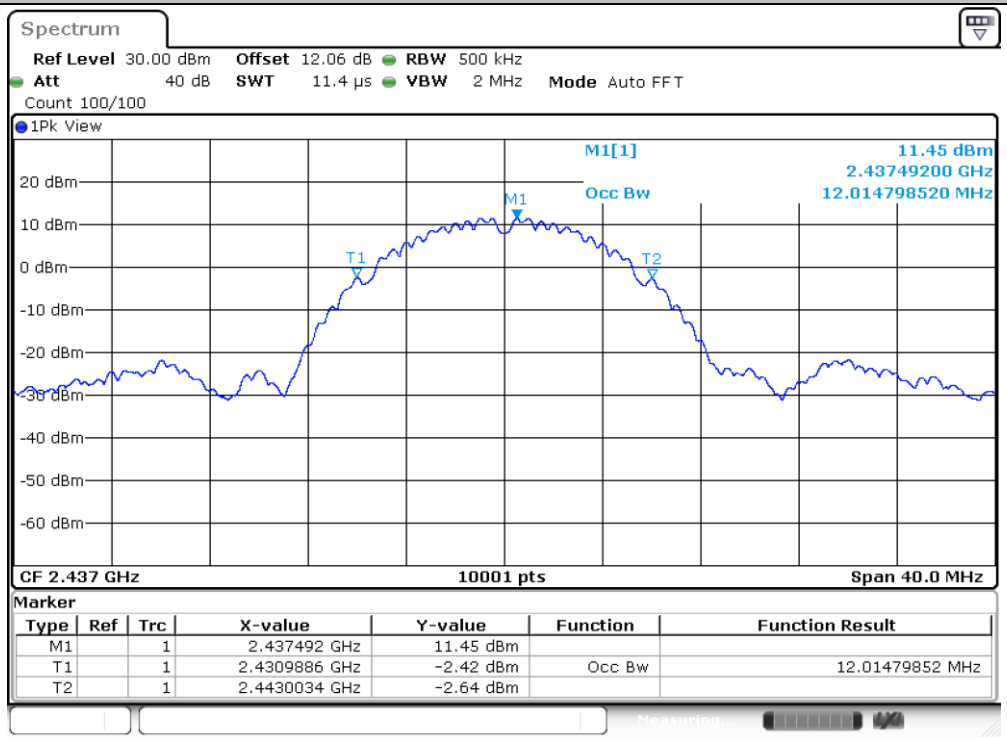
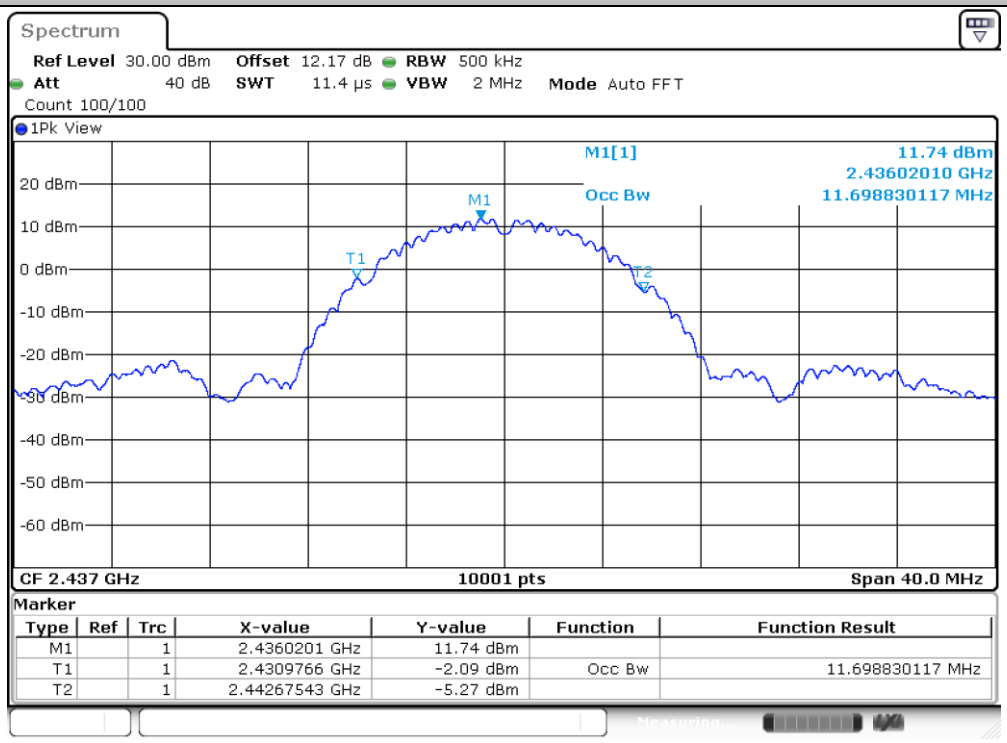
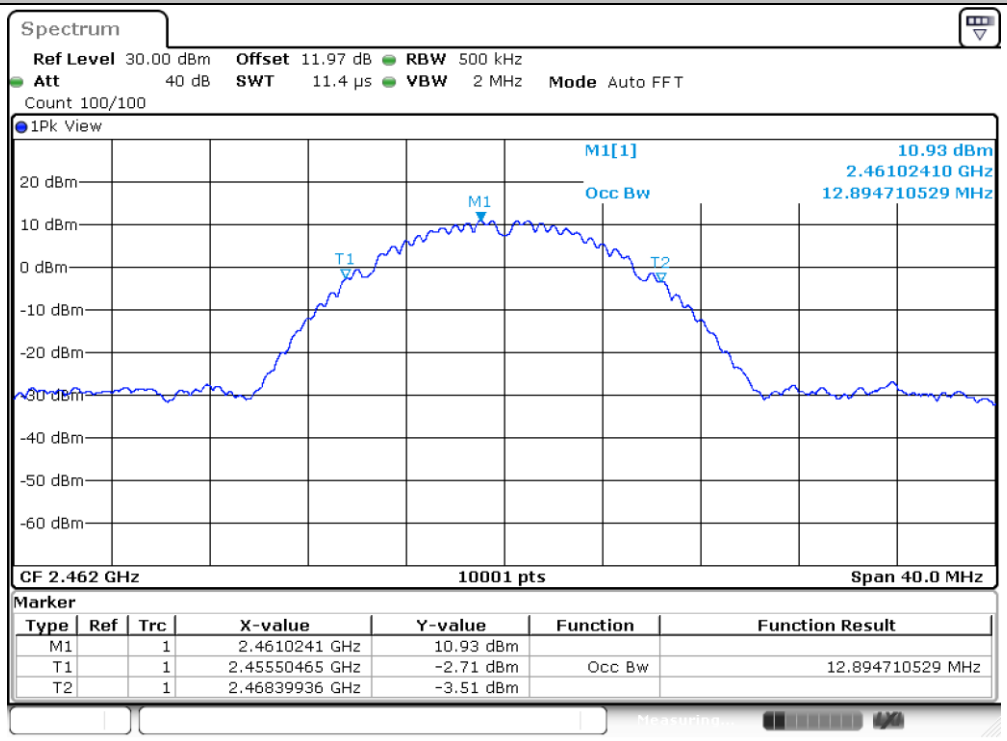


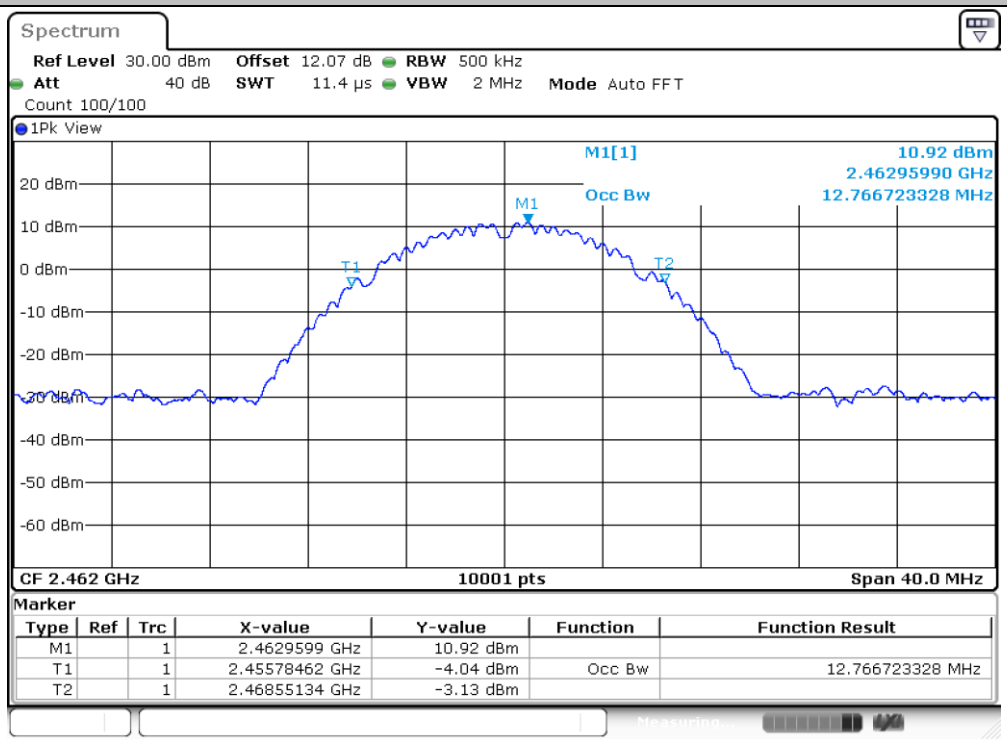
11B_Ant8_2437



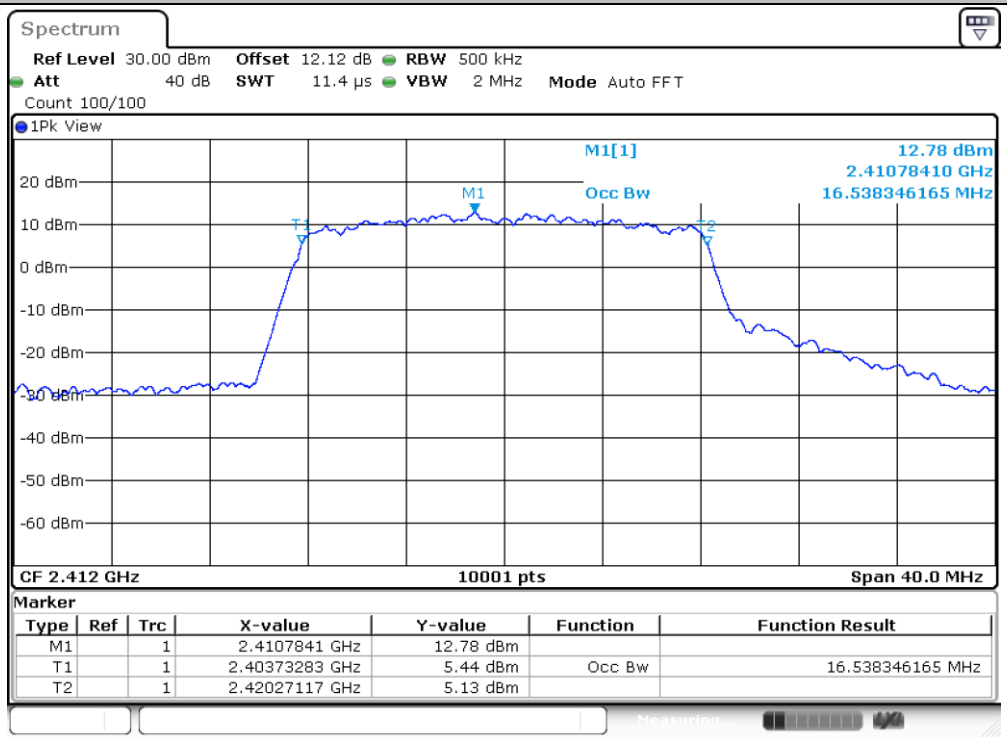
11B_Ant10_2462



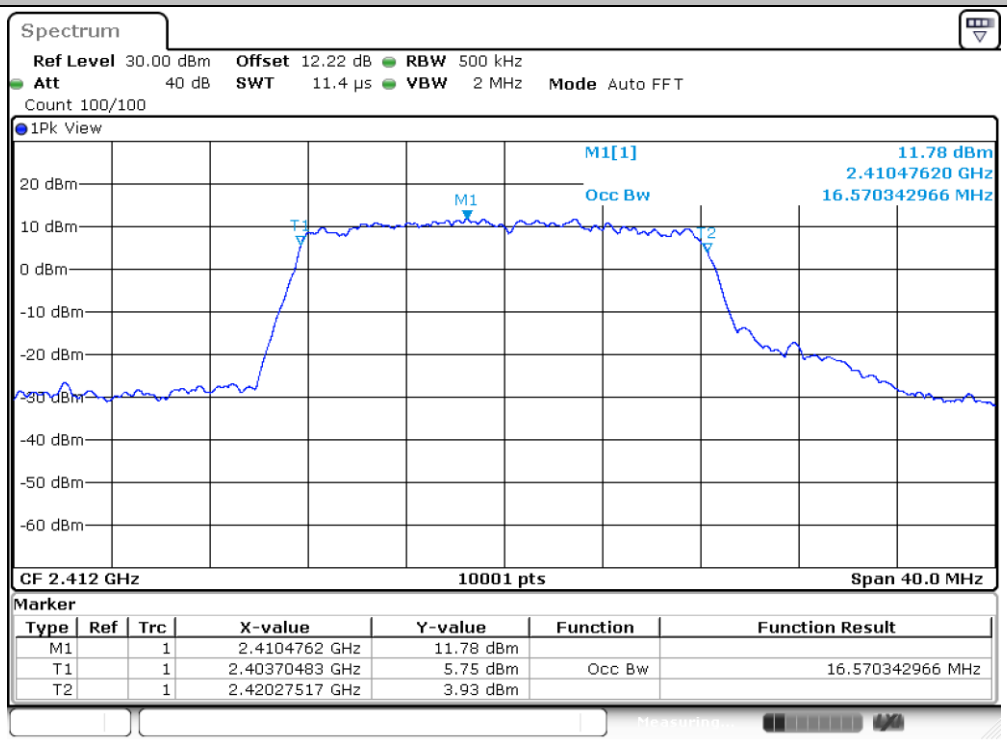
11B_Ant8_2462



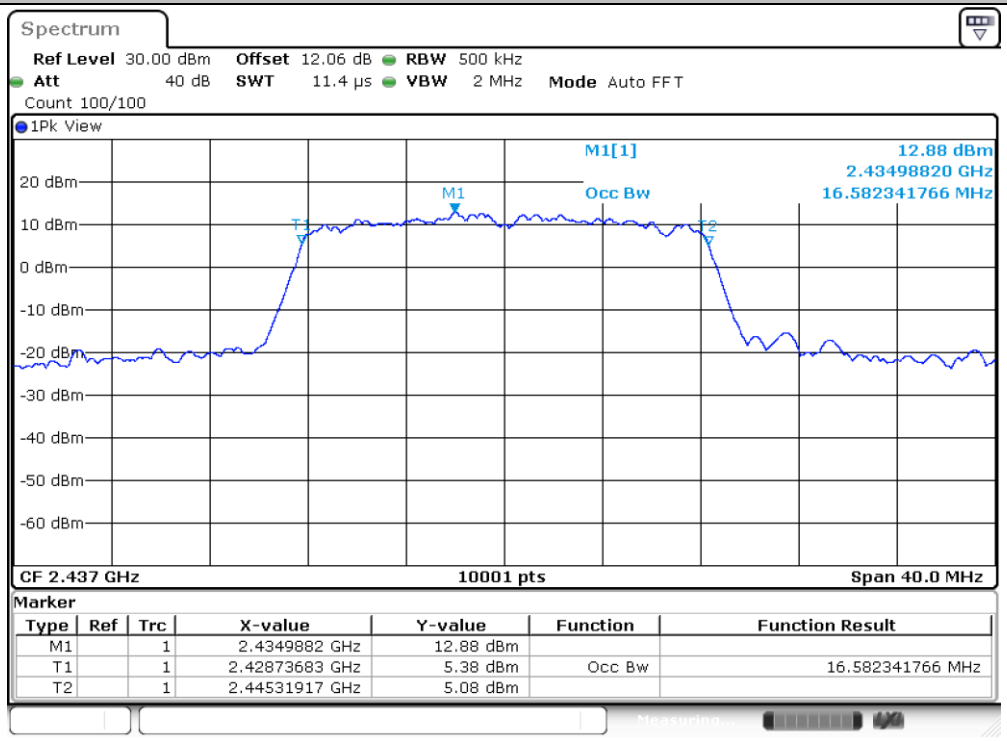
11G_Ant10_2412



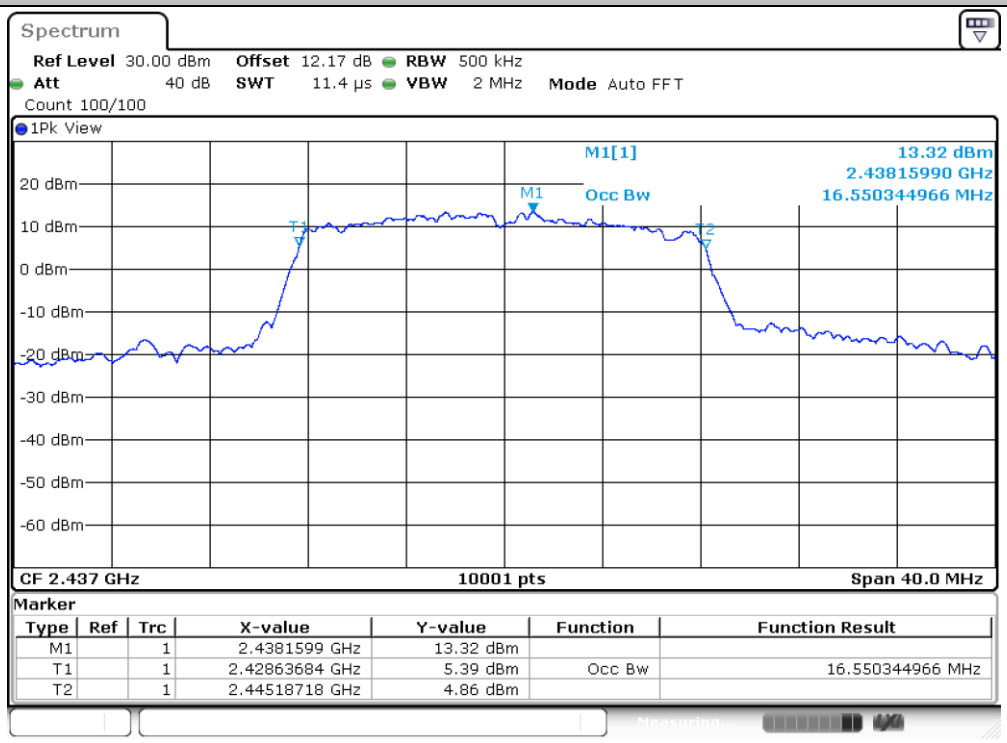
11G_Ant8_2412



11G_Ant10_2437



11G_Ant8_2437



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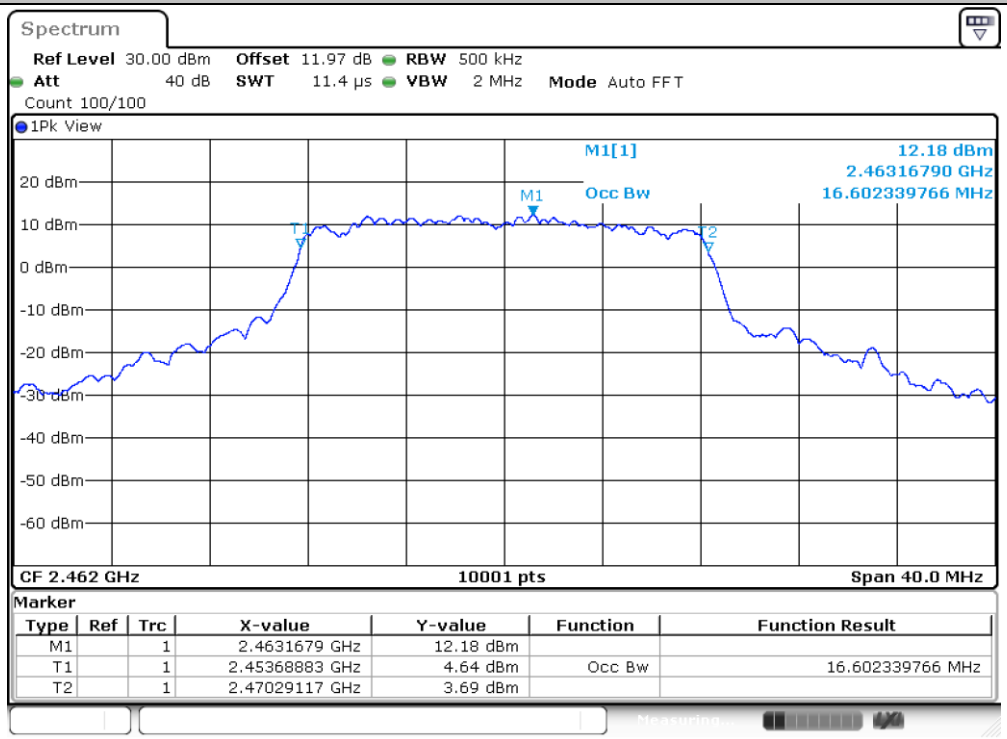
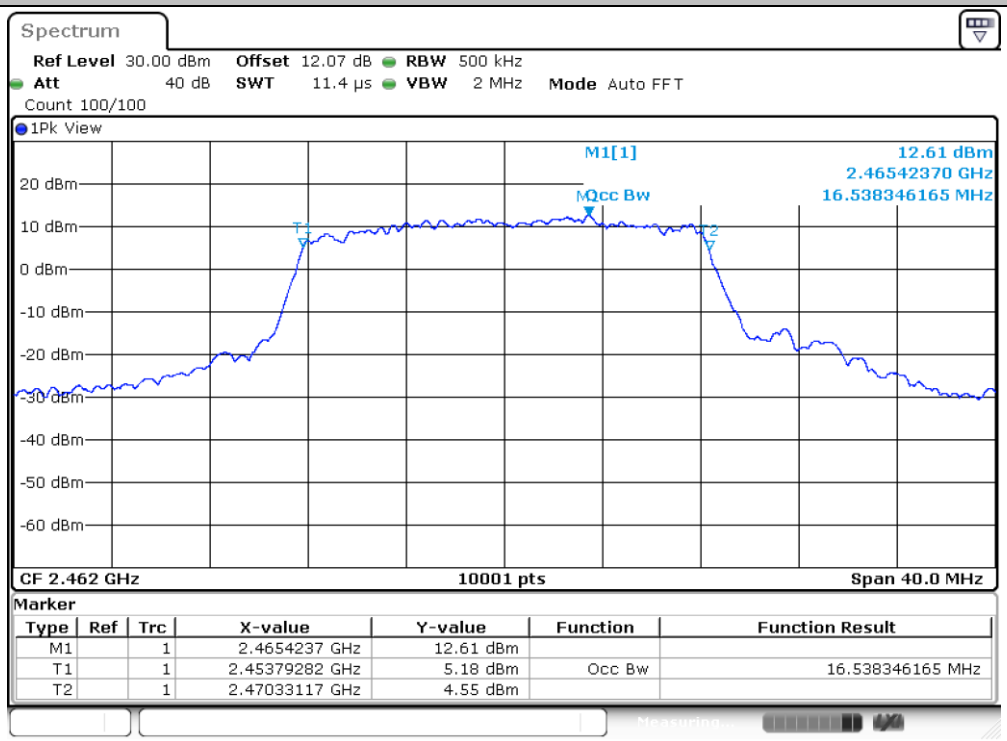
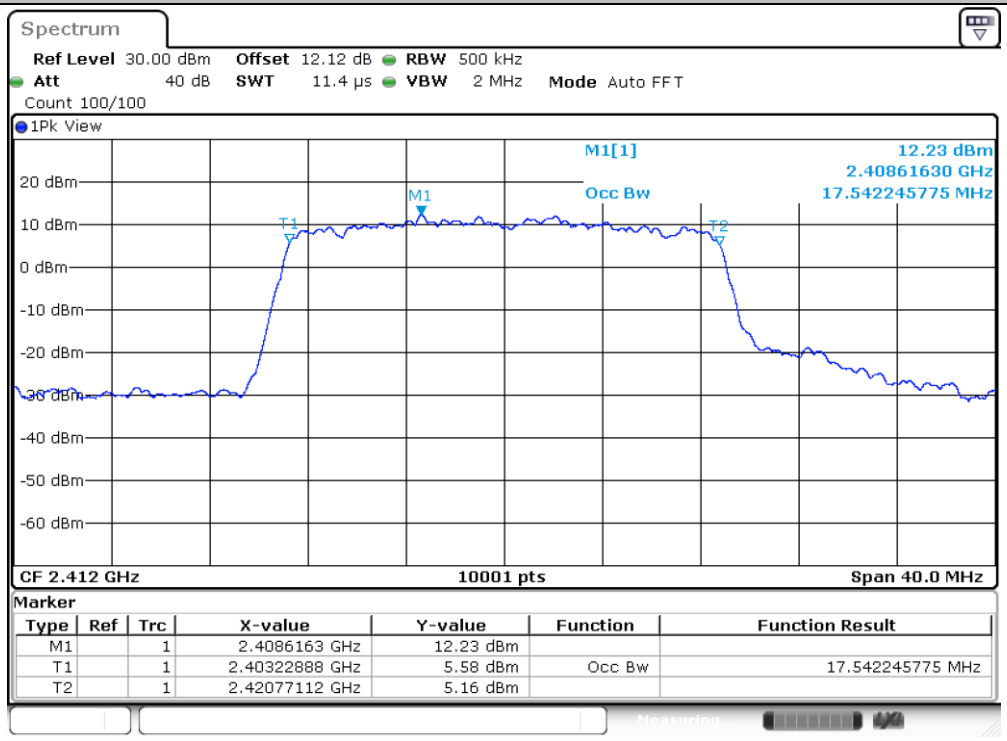


11G_Ant8_2462



11N20MIMO_Ant10_2412



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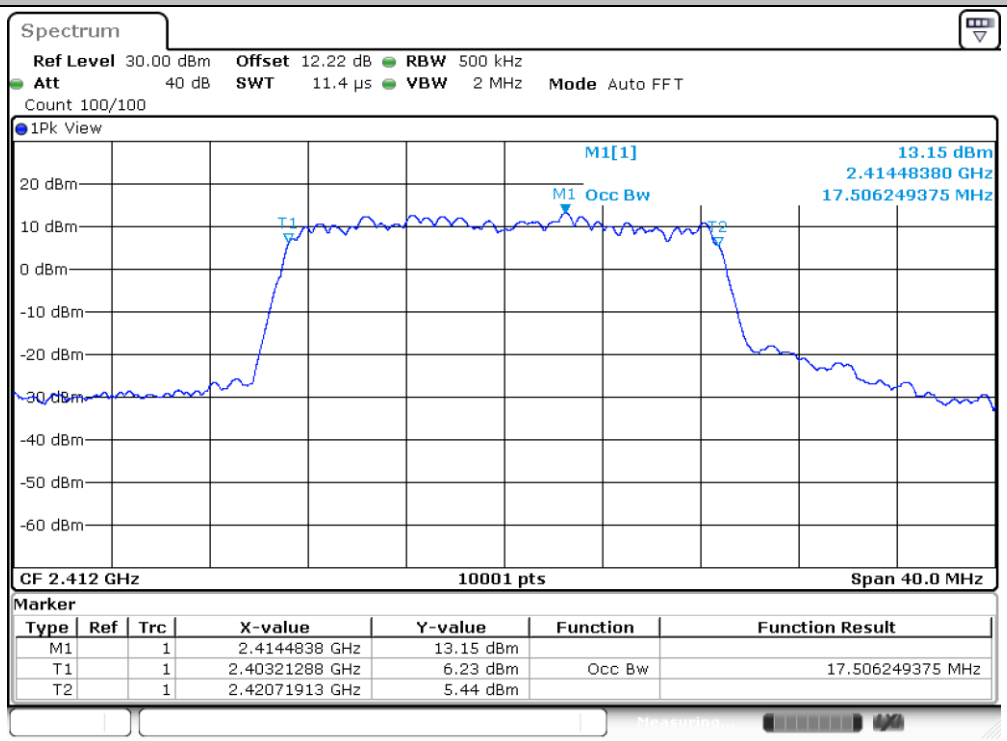

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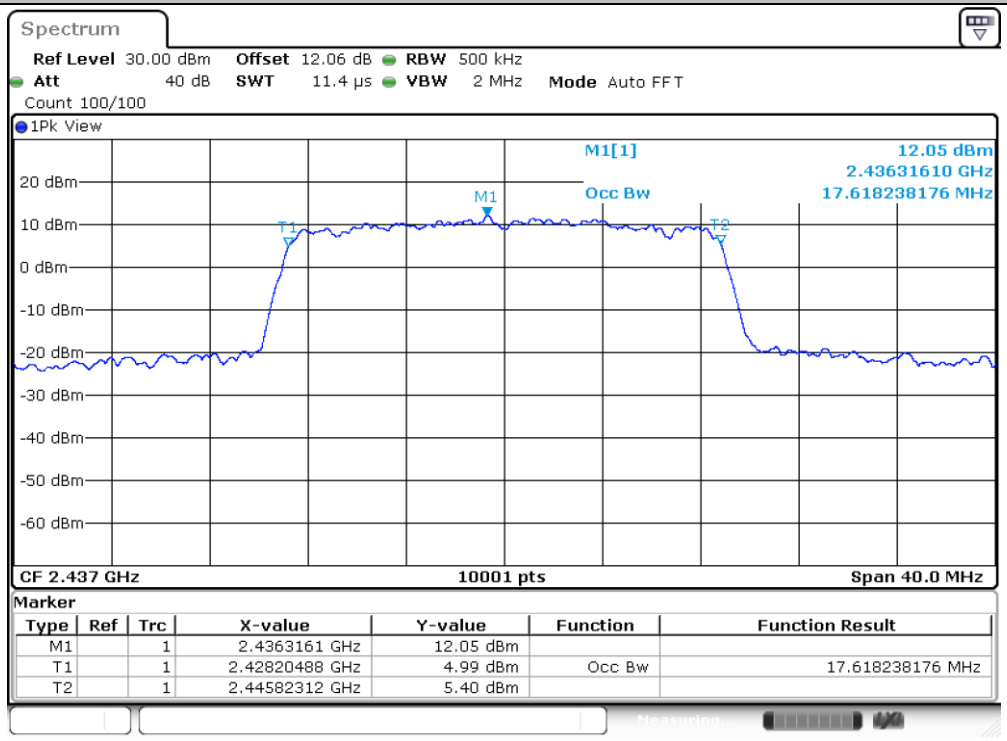

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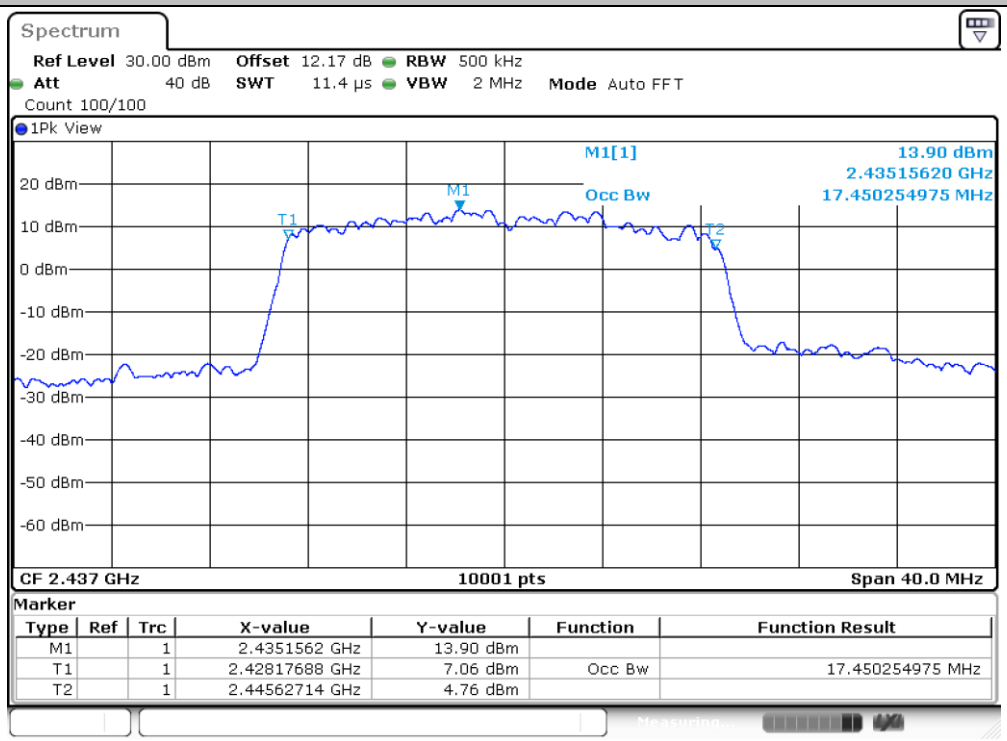

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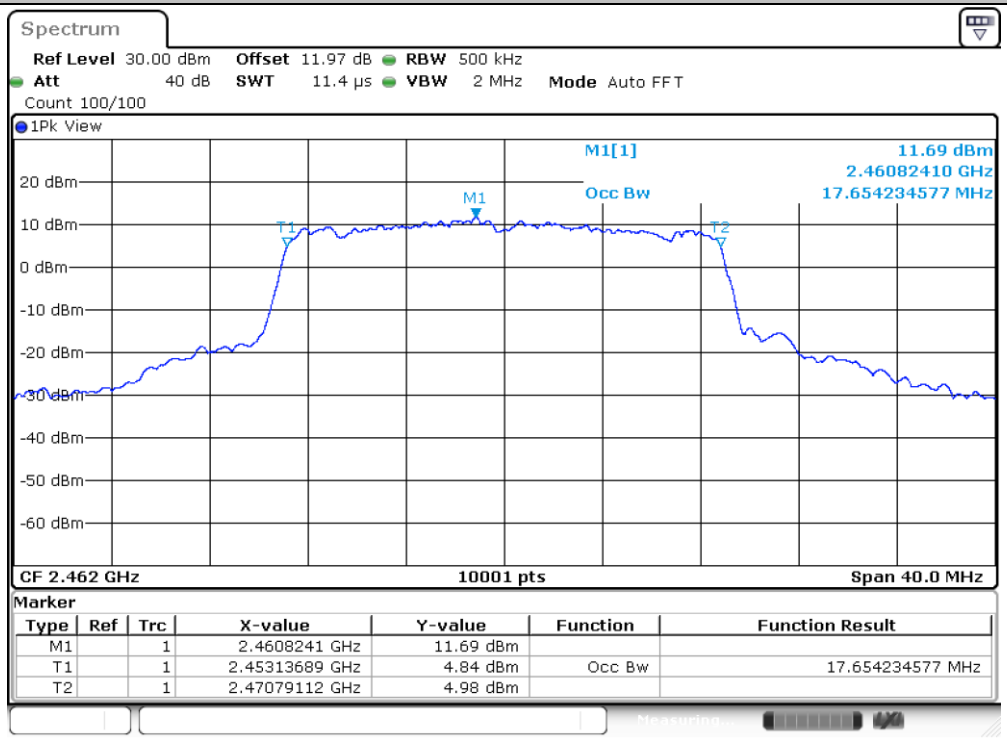

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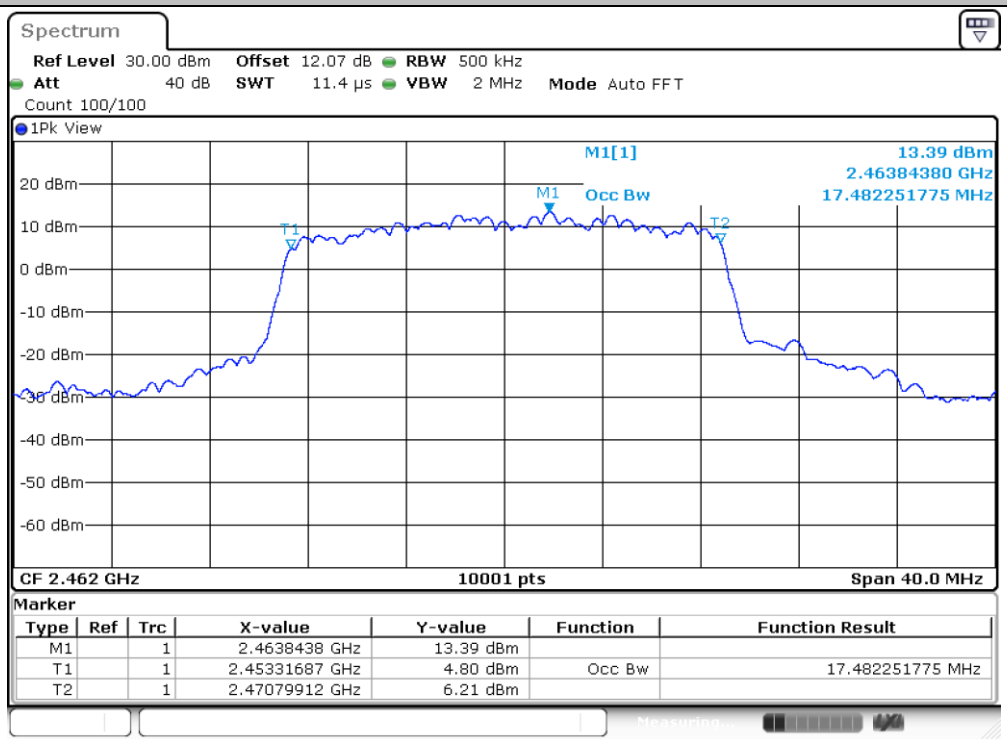

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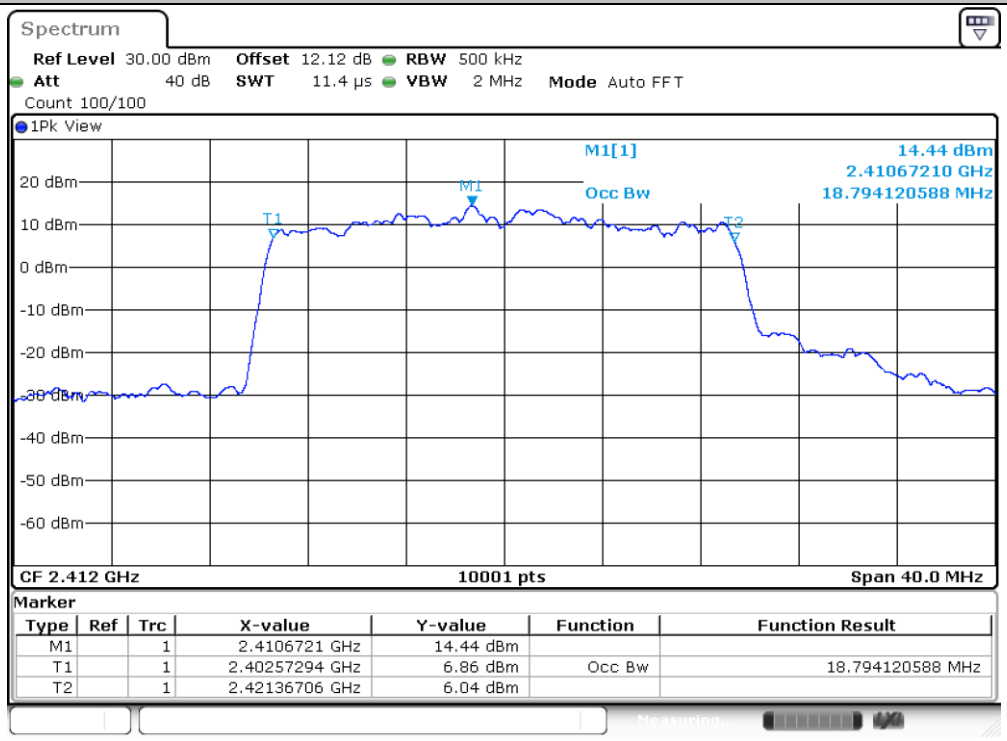

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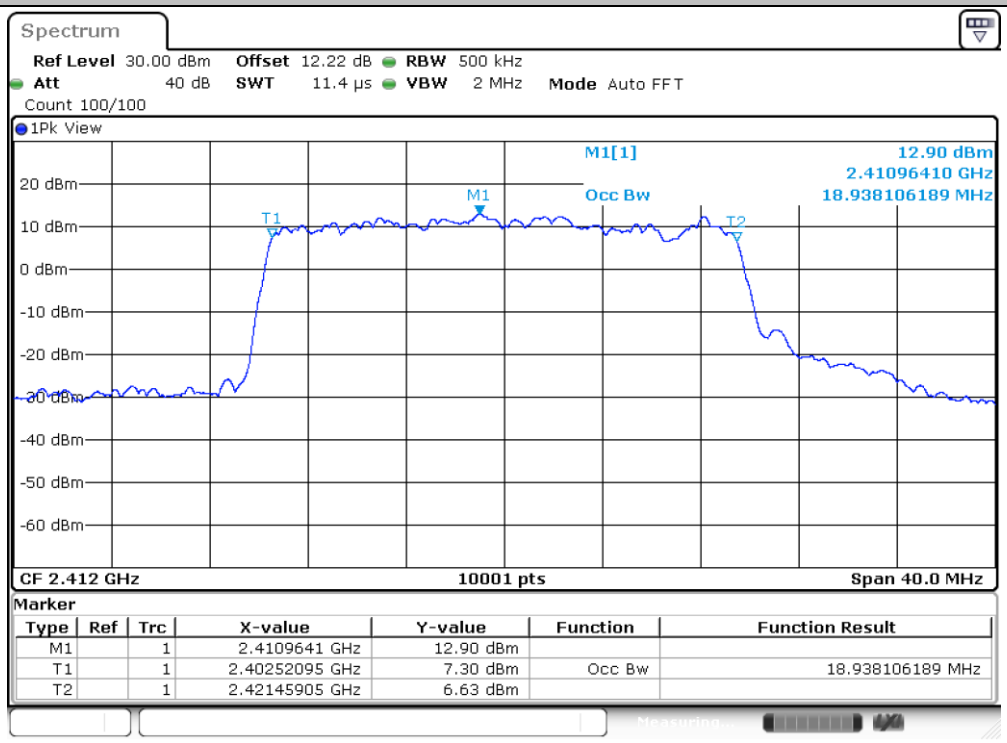

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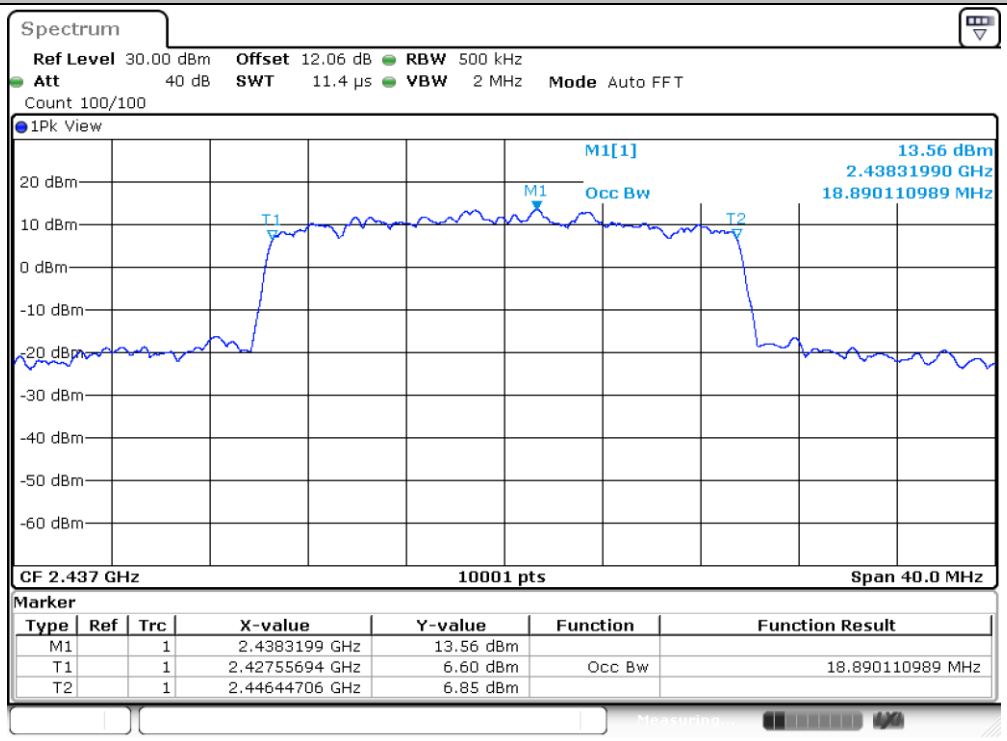

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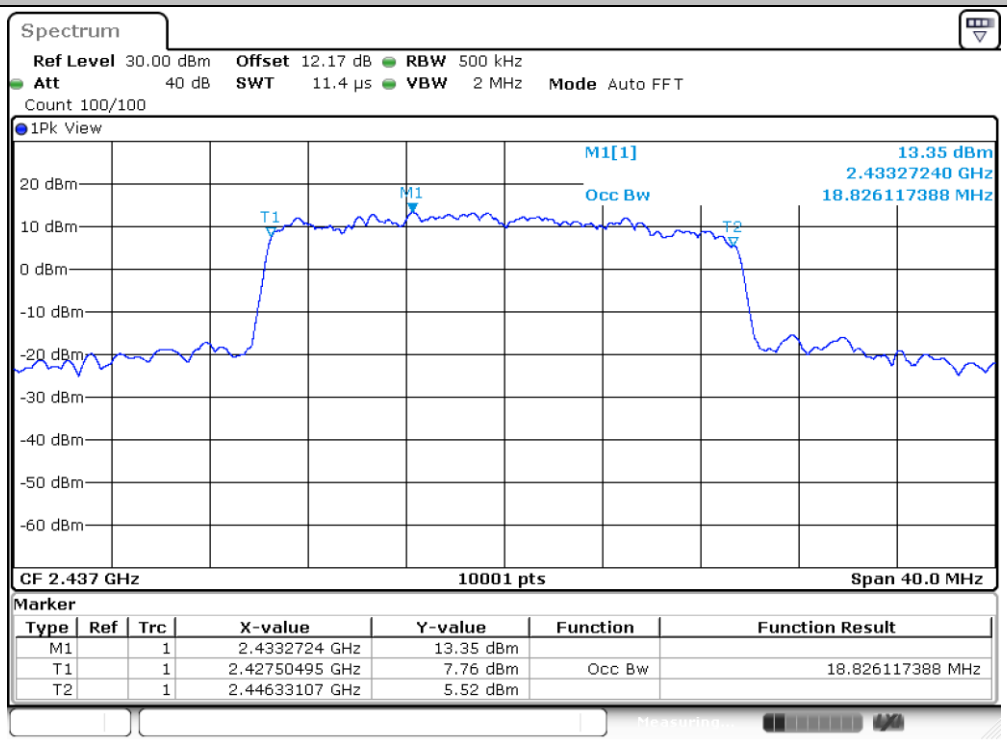

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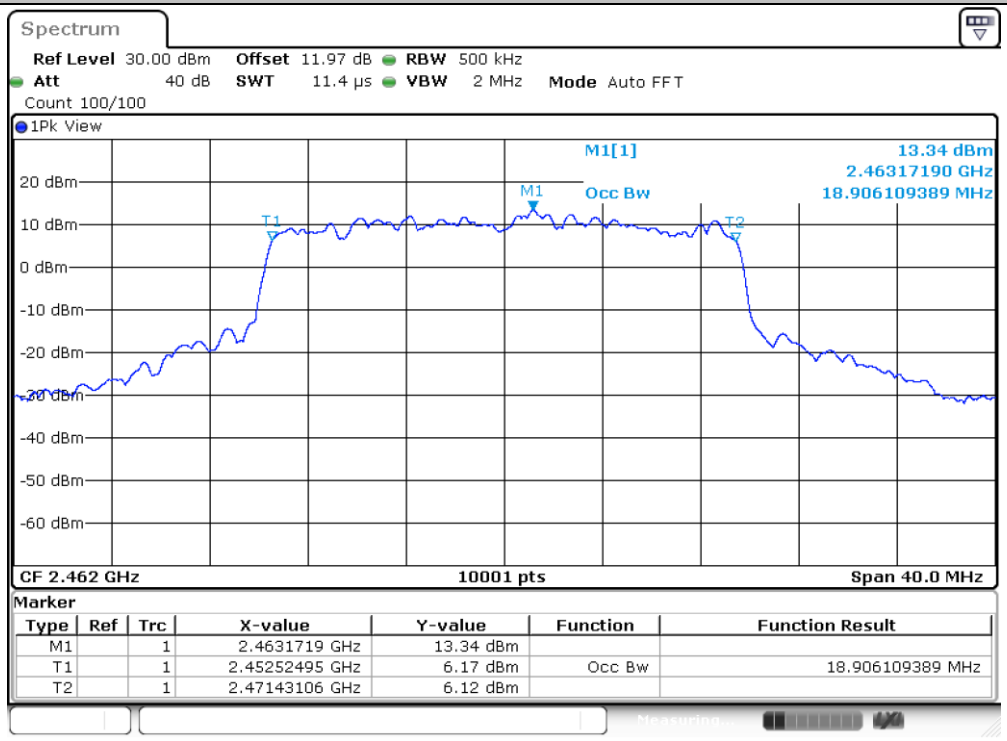

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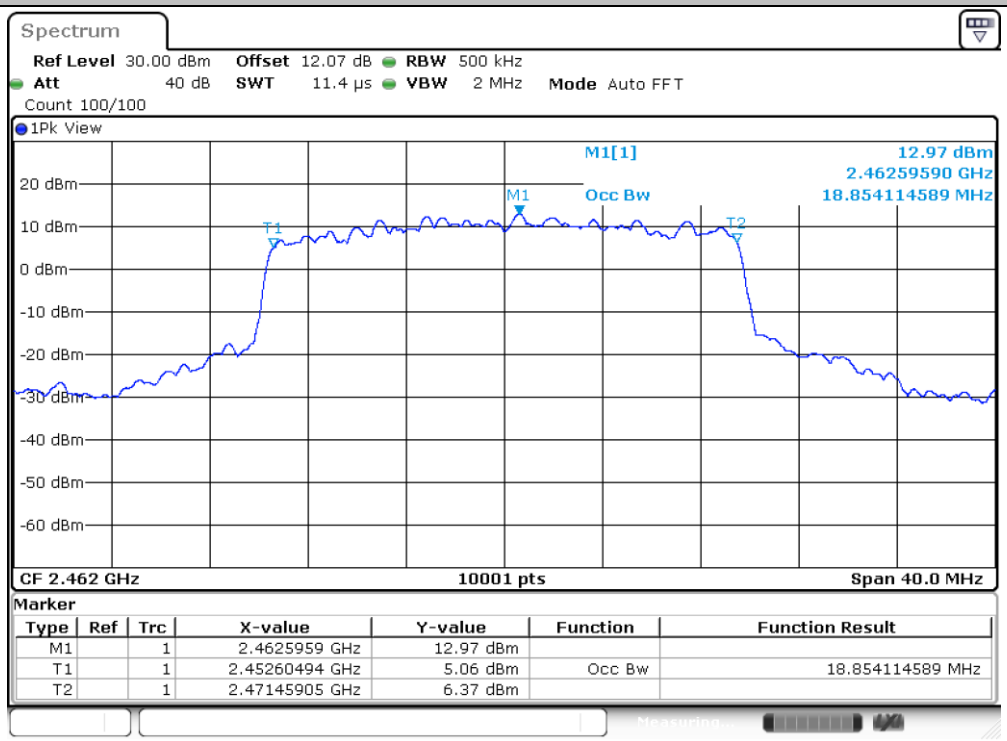


Date: 3.MAY.2025 09:44:02

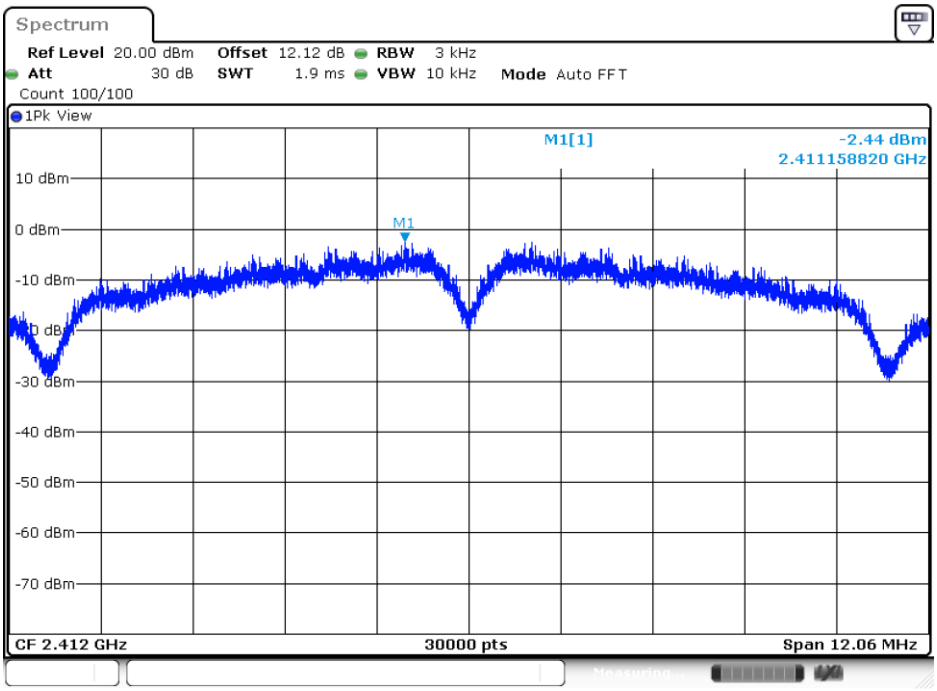
Maximum power spectral density

Test Result

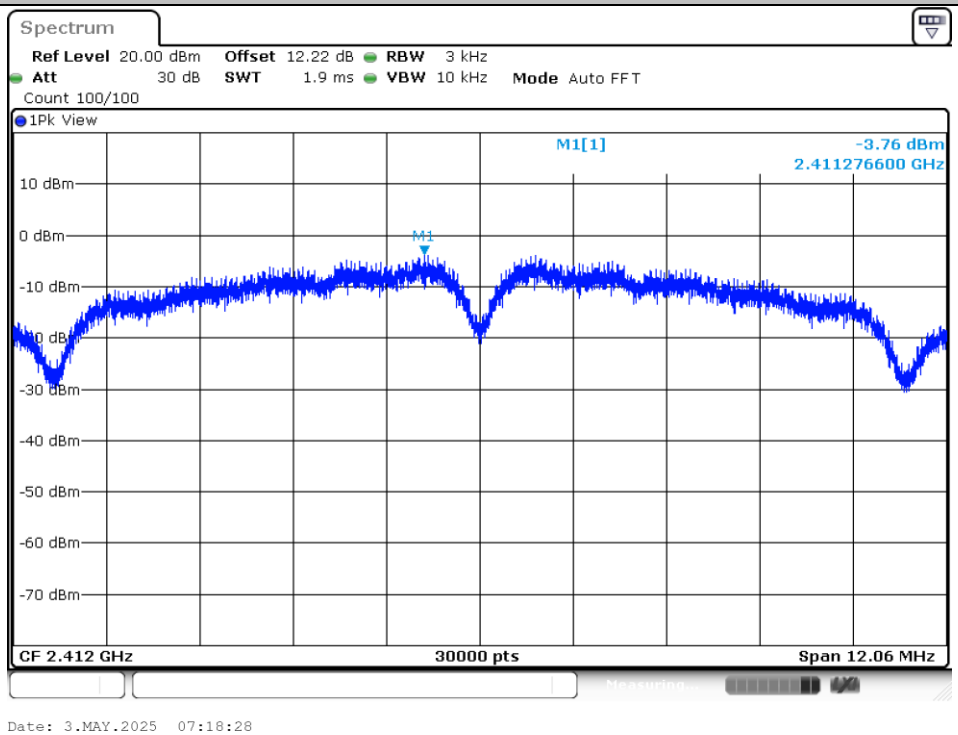
TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant10	2412	-2.44	≤8.00	PASS
	Ant8	2412	-3.76	≤8.00	PASS
	Ant10	2437	-2.49	≤8.00	PASS
	Ant8	2437	-2.62	≤8.00	PASS
	Ant10	2462	-2.55	≤8.00	PASS
	Ant8	2462	-3.16	≤8.00	PASS
11G	Ant10	2412	-3.41	≤8.00	PASS
	Ant8	2412	-5.07	≤8.00	PASS
	Ant10	2437	-4.04	≤8.00	PASS
	Ant8	2437	-3.52	≤8.00	PASS
	Ant10	2462	-5.68	≤8.00	PASS
	Ant8	2462	-3.63	≤8.00	PASS
11N20MIMO	Ant10	2412	-5.22	≤8.00	PASS
	Ant8	2412	-5.47	≤8.00	PASS
	total	2412	-2.33	≤8.00	PASS
	Ant10	2437	-4.80	≤8.00	PASS
	Ant8	2437	-3.98	≤8.00	PASS
	total	2437	-1.36	≤8.00	PASS
	Ant10	2462	-6.33	≤8.00	PASS
	Ant8	2462	-6.04	≤8.00	PASS
	total	2462	-3.17	≤8.00	PASS
11BE20MIMO	Ant10	2412	-6.90	≤8.00	PASS
	Ant8	2412	-6.85	≤8.00	PASS
	total	2412	-3.86	≤8.00	PASS
	Ant10	2437	-6.21	≤8.00	PASS
	Ant8	2437	-6.24	≤8.00	PASS
	total	2437	-3.21	≤8.00	PASS
	Ant10	2462	-7.73	≤8.00	PASS
	Ant8	2462	-7.21	≤8.00	PASS
	total	2462	-4.45	≤8.00	PASS

Test Graphs

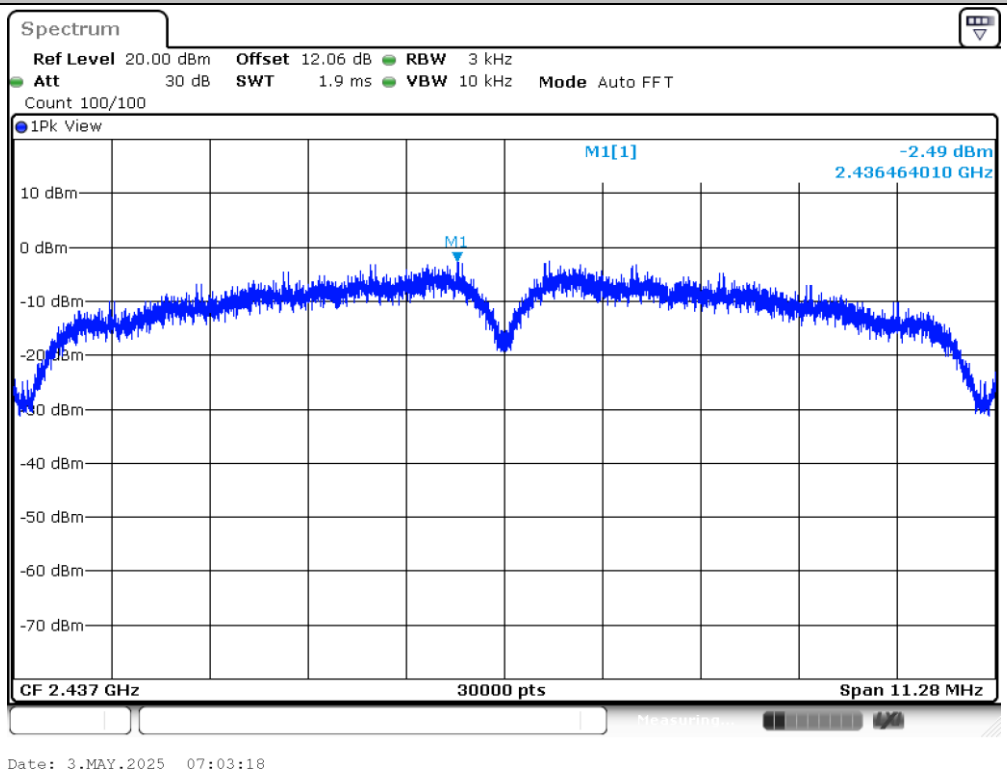
11B_Ant10_2412



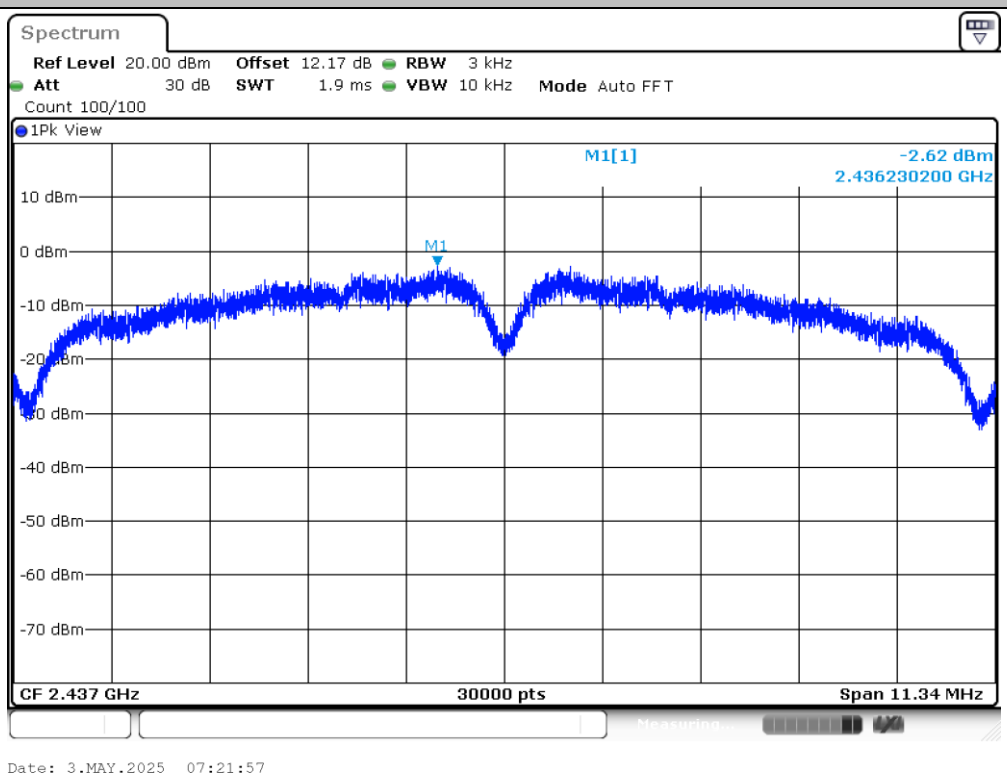
11B_Ant8_2412



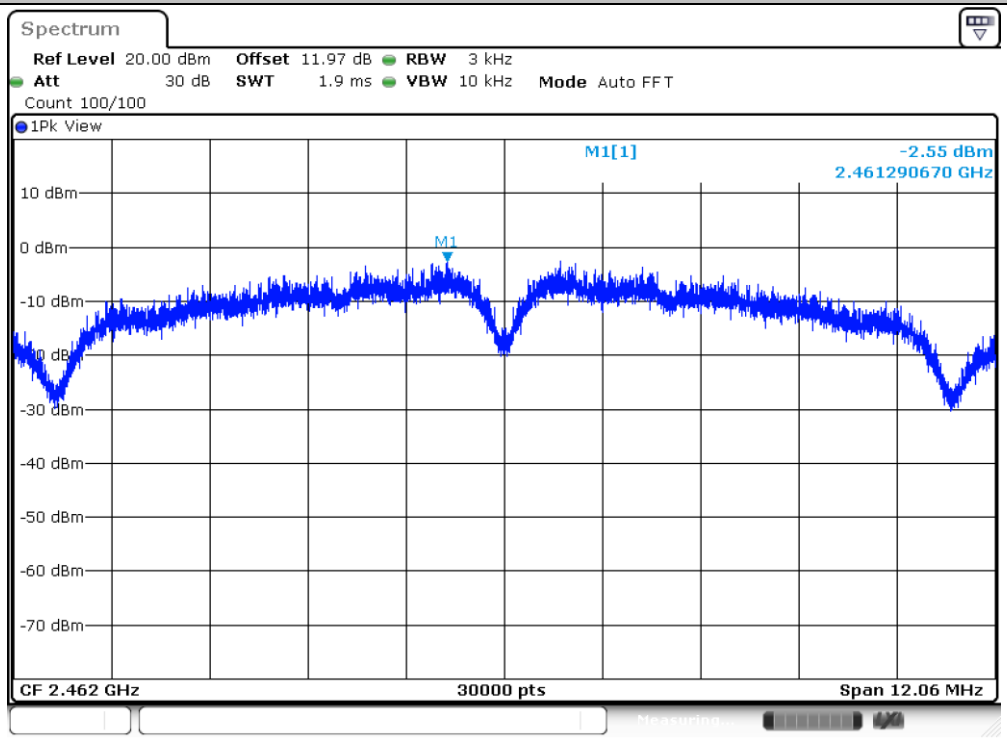
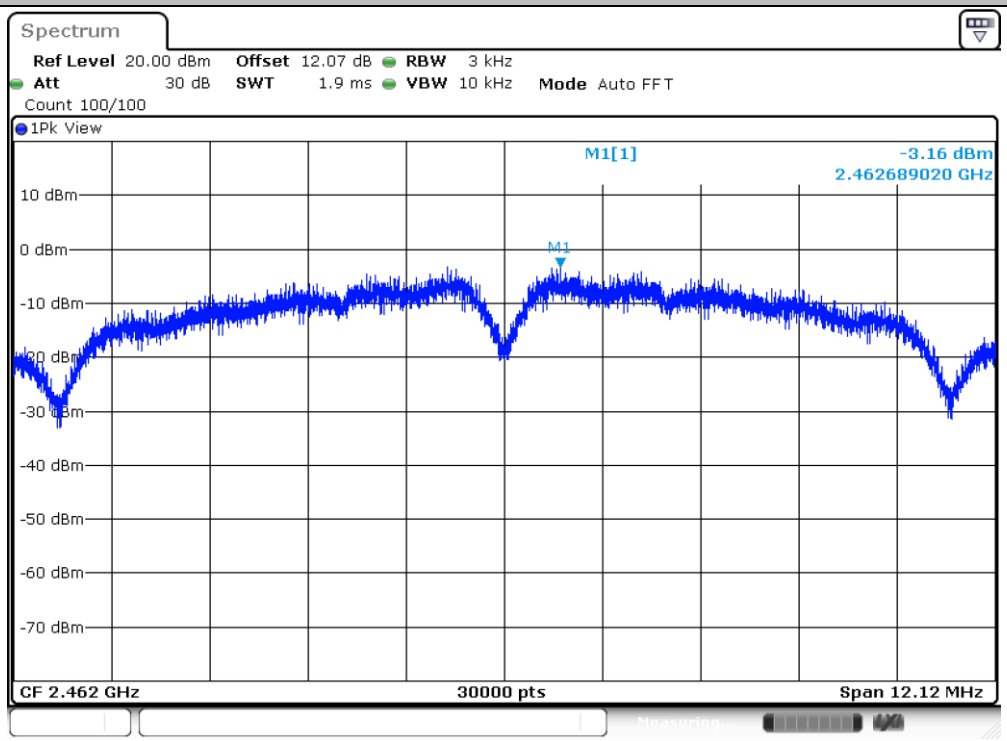
11B_Ant10_2437



11B_Ant8_2437



11B_Ant10_2462



11B_Ant8_2462