



FCC RF Test Report

APPLICANT : FCNT LLC.
EQUIPMENT : Mobile cellular phone
BRAND NAME : Raku-Raku smartphone a
MODEL NAME : A401FC
FCC ID : 2BEPUFMP198
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : May 06, 2024 ~ Jun. 17, 2024

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.

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR422914C	Rev. 01	Initial issue of report	Jul. 18, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	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 5.87 dB at 2484.450 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 14.13 dB at 0.486 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

- 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 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

FCNT LLC.

Sanki Yamato Bldg. 3F, 7-10-1, Chuorinkan, Yamato-shi, Kanagawa, 242-0007, Japan

1.2 Manufacturer

FCNT LLC.

Sanki Yamato Bldg. 3F, 7-10-1, Chuorinkan, Yamato-shi, Kanagawa, 242-0007, Japan

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile cellular phone
Brand Name	Raku-Raku smartphone a
Model Name	A401FC
FCC ID	2BEPUFMP198
IMEI Code	Conducted: 354401310025244/354401310025251 Conduction: 354401310039864/354401310039872 Radiation: 354401310040268/354401310040276
HW Version	V4
SW Version	FAC V006
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	802.11b : 13.26 dBm (0.0212 W) 802.11g : 21.63 dBm (0.1455 W) 802.11n HT20 : 22.35 dBm (0.1718 W) 802.11n HT40 : 22.23 dBm (0.1671 W)
99% Occupied Bandwidth	802.11b : 12.787 MHz 802.11g : 17.143 MHz 802.11n HT20 : 18.022 MHz 802.11n HT40 : 36.364 MHz
Antenna Type / Gain	PIFA Antenna with gain -1.86 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Modification of EUT

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



1.6 Testing Location

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

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH06-KS TH01-KS	CN1257	314309

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH06-KS	AUDIX	E3	210616
3.	CO01-KS	AUDIX	E3	6.2009-8-24
4.	03CH04-SZ	AUDIX	E3	6.2009-8-24



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
- ♦ ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

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

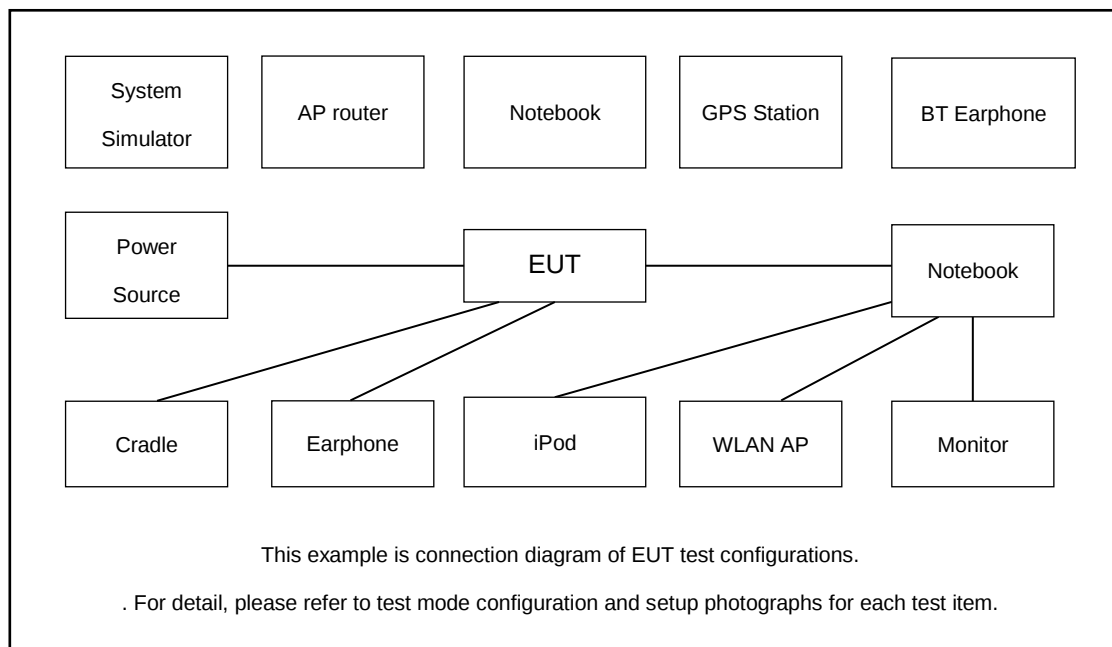
Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

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

Simultaneous transmission
802.11n HT40_CH09 Tx + LTE Band 41 Link

2.3 Connection Diagram of Test System



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	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
4.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
5.	Adapter	Lenovo	N/A	N/A	N/A	N/A
6.	USB Cable	Lenovo	N/A	N/A	Shielded, 1.2m	N/A
7.	Earphone	Moto	N/A	N/A	Un-Shielded, 1.2m	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 0.8 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 0.8 + 10 = 10.8 \text{ (dB)} \end{aligned}$$

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.

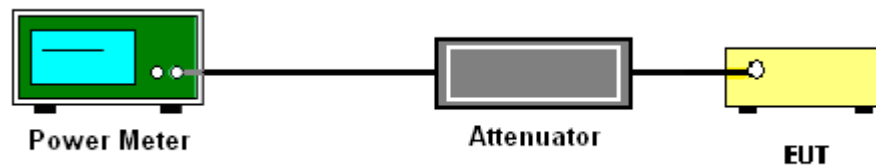
3.2.2 Measuring Instruments

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.

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.

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 / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

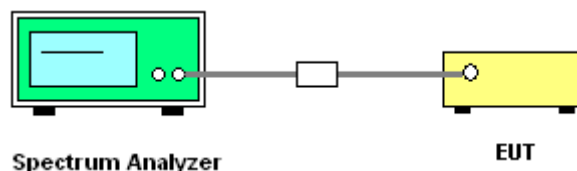
3.4.2 Measuring Instruments

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

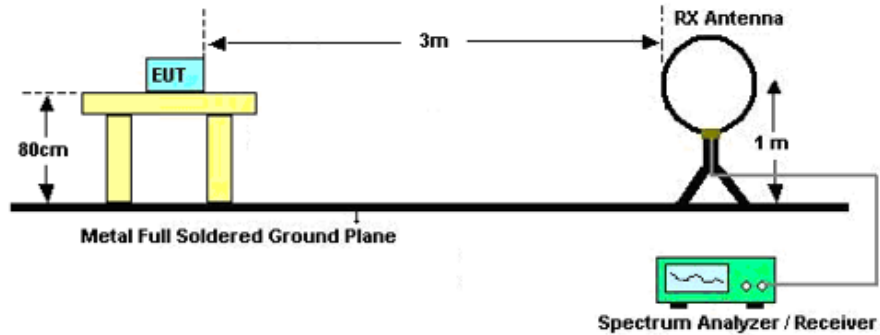
The measuring equipment is listed in the section 4 of this test report.

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 $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

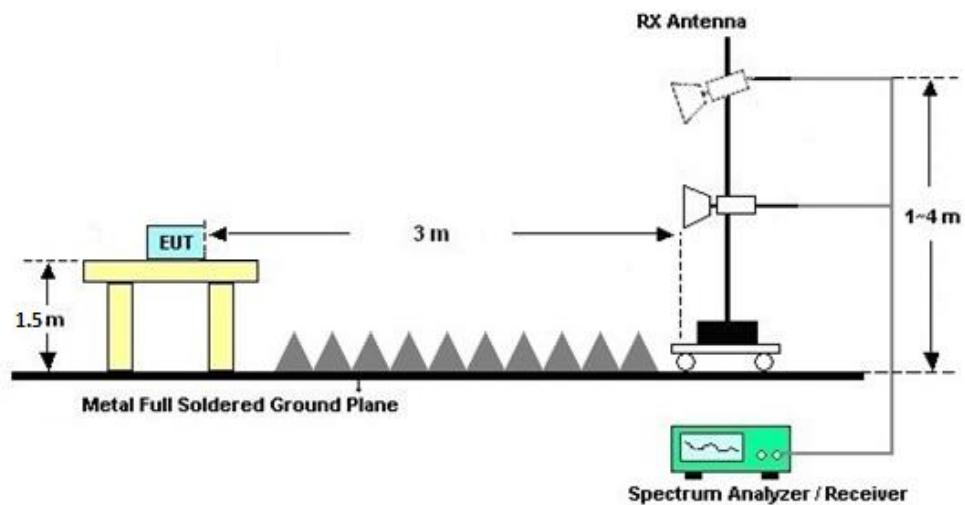
For radiated emissions below 30MHz



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 (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

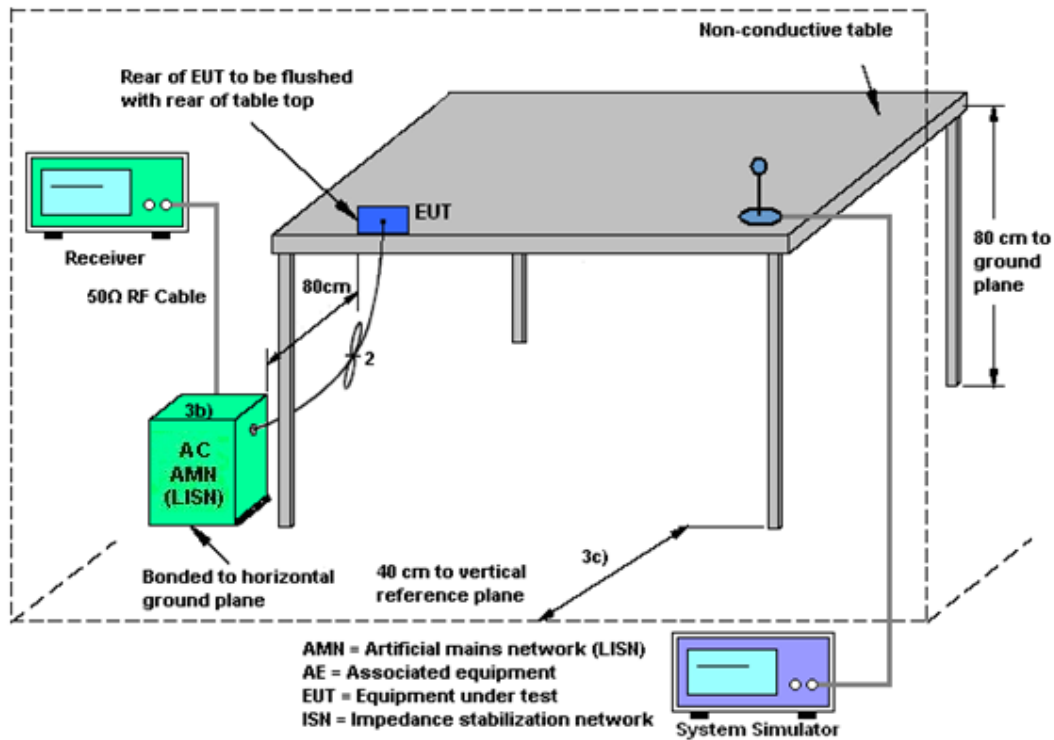
3.6.2 Measuring Instruments

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

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



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. 11, 2023	May 06, 2024~Jun. 17, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	May 06, 2024~Jun. 17, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1435004	50MHz Bandwidth	Jan. 02, 2024	May 06, 2024~Jun. 17, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	May 26, 2024~Jun. 12, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	May 26, 2024~Jun. 12, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	May 26, 2024~Jun. 12, 2024	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 09, 2024	May 26, 2024~Jun. 12, 2024	May 08, 2025	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	May 26, 2024~Jun. 12, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	May 26, 2024~Jun. 12, 2024	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 18, 2023	May 26, 2024~Jun. 12, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	May 26, 2024~Jun. 12, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	May 26, 2024~Jun. 12, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	May 26, 2024~Jun. 12, 2024	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	May 26, 2024~Jun. 12, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 26, 2024~Jun. 12, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 26, 2024~Jun. 12, 2024	NCR	Radiation (03CH04-SZ)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Jun. 05, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Jun. 05, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Jun. 05, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Jun. 05, 2024	Oct. 10, 2024	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 Measurement

Conducted Spurious Emission & Bandedge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.46 dB
Conducted Power Spectral Density	±0.88 dB
Frequency	±0.4 Hz

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.10dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.80dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.10dB
---	--------

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



Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Jiang Jun	Temperature:	21~25	°C
Test Date:	2024.5.6~2024.5.9	Relative Humidity:	51~54	%

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
					Ant6	Ant6	Ant6	Ant6	Ant6	
11b	1Mbps	1	1	2412	13.19	30.00	-1.86	11.33	36.00	Pass
11b	1Mbps	1	6	2437	13.26	30.00	-1.86	11.40	36.00	Pass
11b	1Mbps	1	11	2462	13.21	30.00	-1.86	11.35	36.00	Pass
11g	6Mbps	1	1	2412	21.32	30.00	-1.86	19.46	36.00	Pass
11g	6Mbps	1	6	2437	21.63	30.00	-1.86	19.77	36.00	Pass
11g	6Mbps	1	11	2462	21.52	30.00	-1.86	19.66	36.00	Pass
HT20	MCS0	1	1	2412	22.11	30.00	-1.86	20.25	36.00	Pass
HT20	MCS0	1	6	2437	22.35	30.00	-1.86	20.49	36.00	Pass
HT20	MCS0	1	11	2462	22.18	30.00	-1.86	20.32	36.00	Pass
HT40	MCS0	1	3	2422	22.06	30.00	-1.86	20.20	36.00	Pass
HT40	MCS0	1	6	2437	22.23	30.00	-1.86	20.37	36.00	Pass
HT40	MCS0	1	9	2452	21.89	30.00	-1.86	20.03	36.00	Pass

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

TEST RESULTS DATA
Average Output Power
(Reference Only)

2.4GHz Band Single Antenna								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	DG (dBi)	EIRP Power (dBm)
					Ant6			
11b	1Mbps	1	1	2412	0.01	11.04	-1.86	9.18
11b	1Mbps	1	6	2437	0.01	11.09	-1.86	9.23
11b	1Mbps	1	11	2462	0.01	11.10	-1.86	9.24
11g	6Mbps	1	1	2412	0.11	11.04	-1.86	9.18
11g	6Mbps	1	6	2437	0.11	11.03	-1.86	9.17
11g	6Mbps	1	11	2462	0.11	11.02	-1.86	9.16
HT20	MCS0	1	1	2412	0.12	11.03	-1.86	9.17
HT20	MCS0	1	6	2437	0.12	11.02	-1.86	9.16
HT20	MCS0	1	11	2462	0.12	11.01	-1.86	9.15
HT40	MCS0	1	3	2422	0.23	11.05	-1.86	9.19
HT40	MCS0	1	6	2437	0.23	11.04	-1.86	9.18
HT40	MCS0	1	9	2452	0.23	11.04	-1.86	9.18

**Ambient Condition:** 25 °C, 45 %RH**Test Date:** 2024.5.6~2024.5.9**Test Engineer:** Jiang Jun

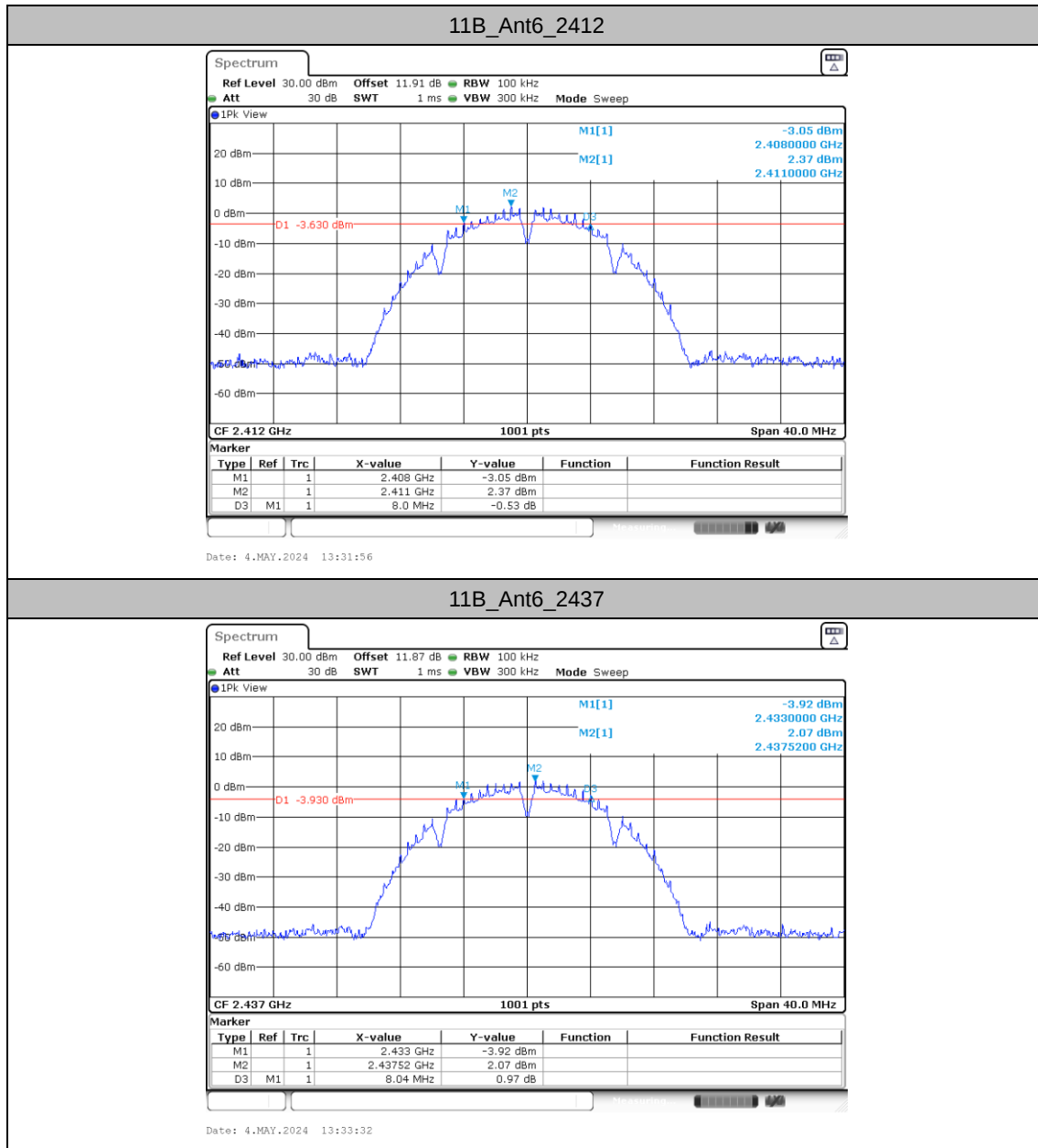
DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant6	2412	8.00	2408.00	2416.00	0.5	PASS
		2437	8.04	2433.00	2441.04	0.5	PASS
		2462	7.56	2458.00	2465.56	0.5	PASS
11G	Ant6	2412	15.40	2404.48	2419.88	0.5	PASS
		2437	15.12	2429.44	2444.56	0.5	PASS
		2462	15.16	2454.44	2469.60	0.5	PASS
11N20SISO	Ant6	2412	15.32	2404.24	2419.56	0.5	PASS
		2437	15.12	2429.44	2444.56	0.5	PASS
		2462	15.08	2454.44	2469.52	0.5	PASS
11N40SISO	Ant6	2422	35.12	2404.48	2439.60	0.5	PASS
		2437	35.12	2419.48	2454.60	0.5	PASS
		2452	35.12	2434.48	2469.60	0.5	PASS

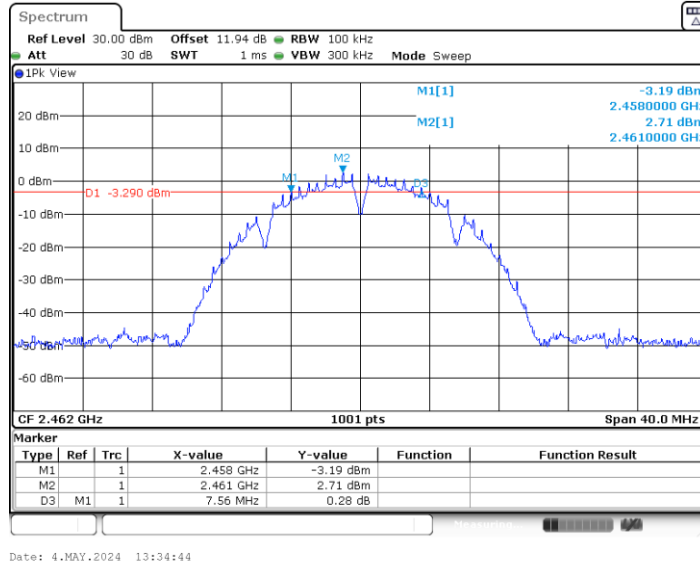


Test Graphs

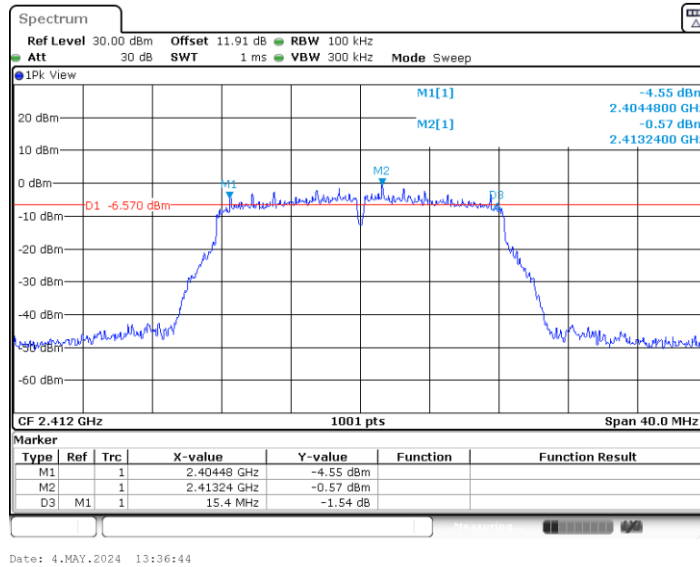




11B_Ant6_2462

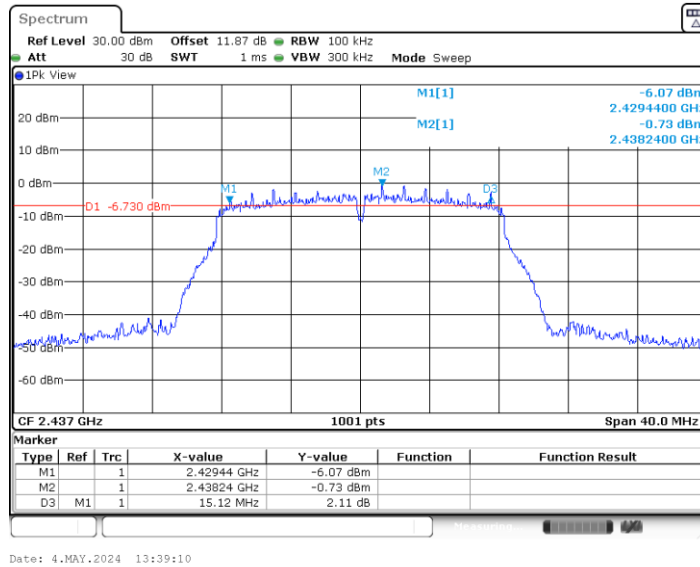


11G_Ant6_2412

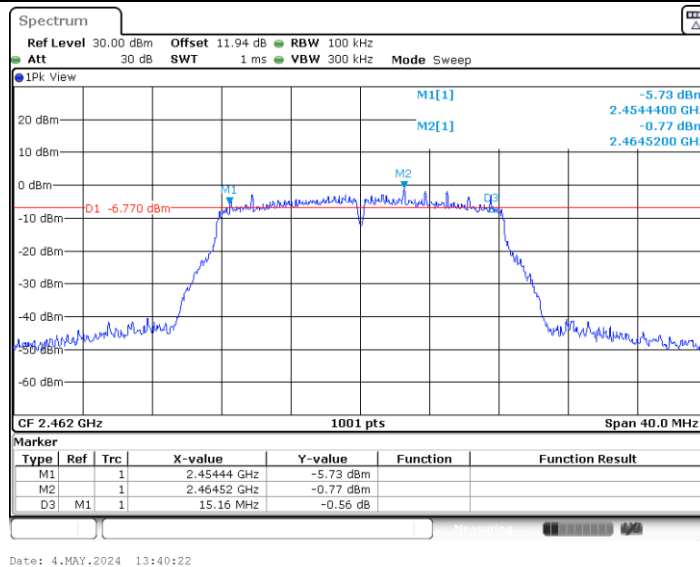




11G_Ant6_2437

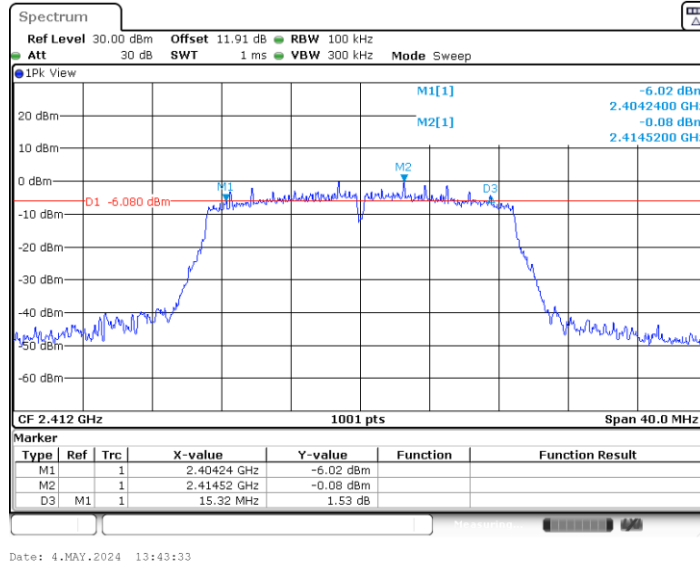


11G_Ant6_2462

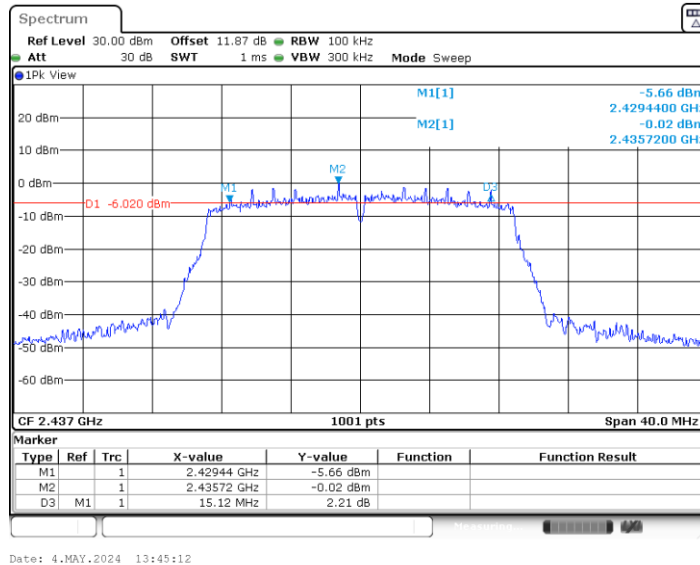




11N20SISO_Ant6_2412

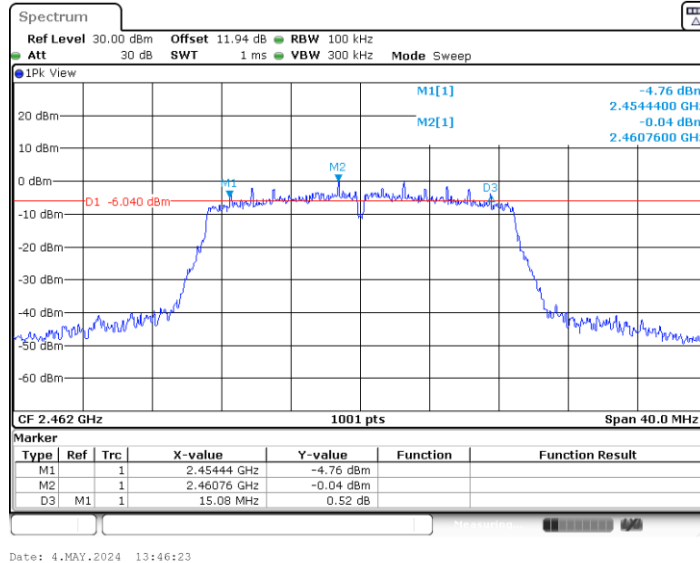


11N20SISO_Ant6_2437

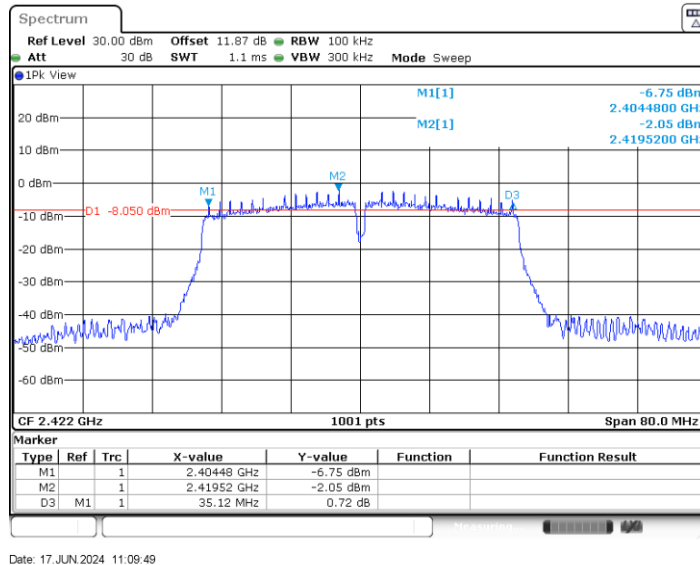




11N20SISO_Ant6_2462

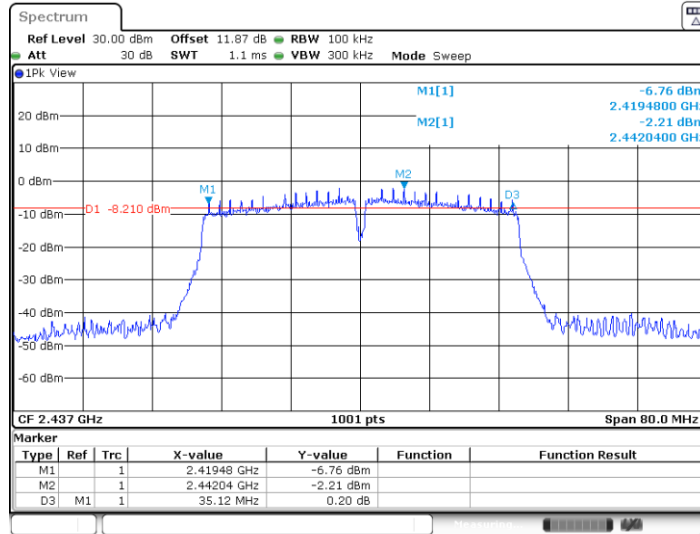


11N40SISO_Ant6_2422



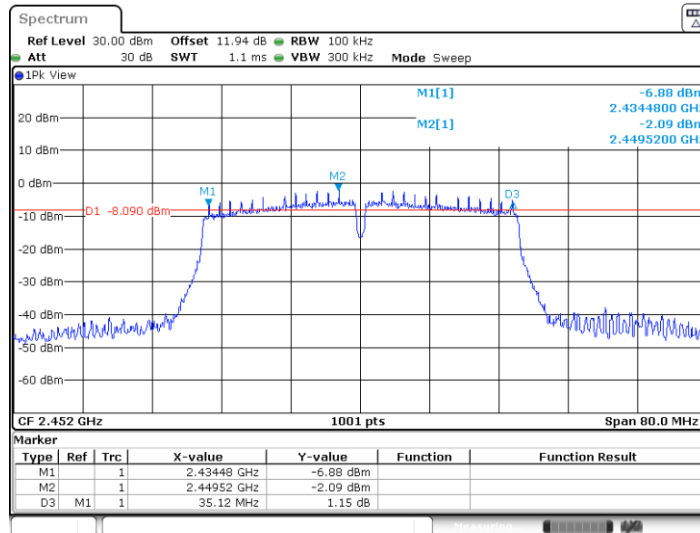


11N40SISO_Ant6_2437



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11N40SISO_Ant6_2452



Date: 17 JUN 2024 11:12:32



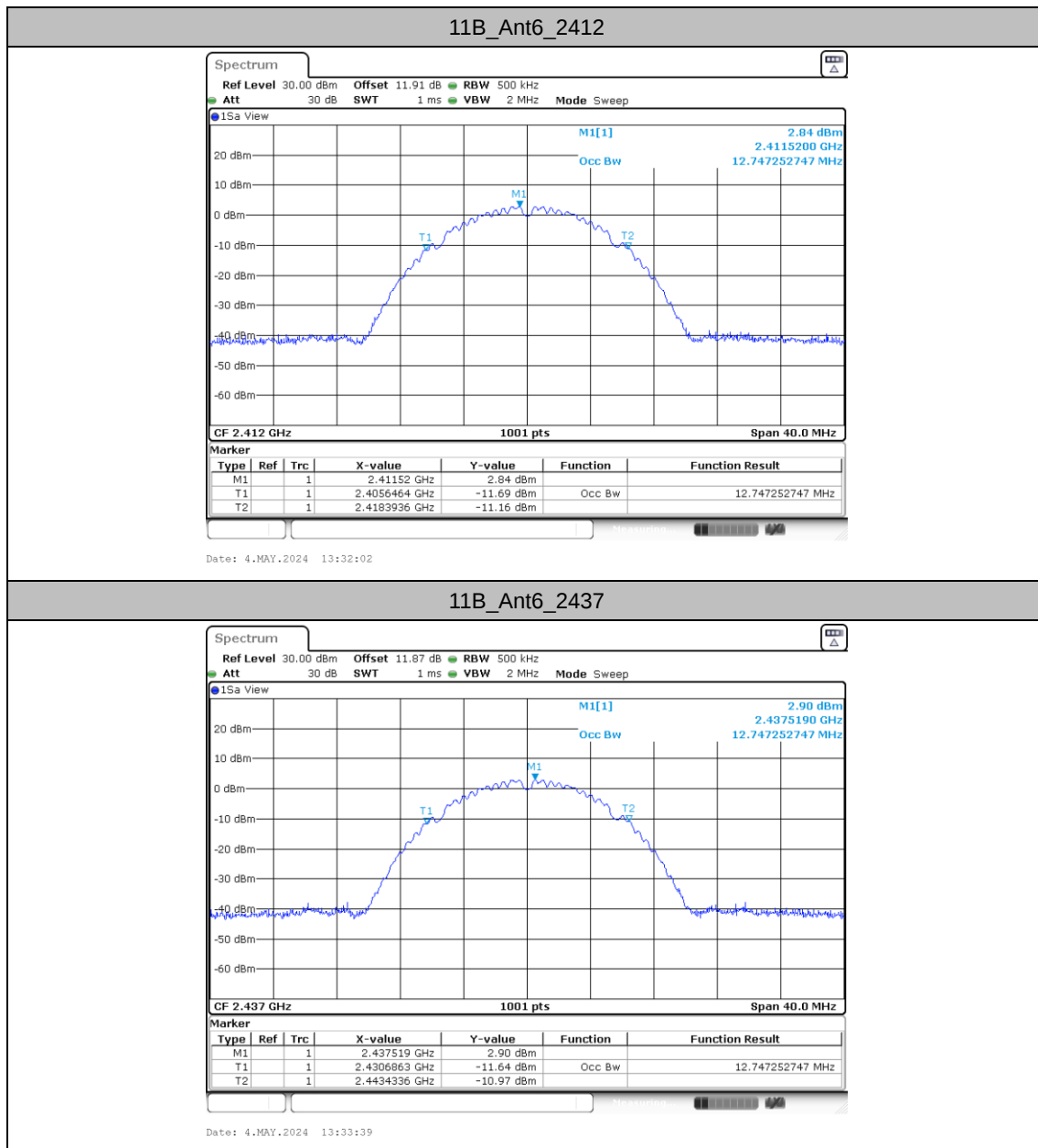
Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant6	2412	12.747	2405.6464	2418.3936
		2437	12.747	2430.6863	2443.4336
		2462	12.787	2455.6464	2468.4336
11G	Ant6	2412	17.103	2403.4885	2420.5914
		2437	17.143	2428.4486	2445.5914
		2462	17.103	2453.4486	2470.5514
11N20SISO	Ant6	2412	18.022	2403.0090	2421.0310
		2437	18.022	2428.0090	2446.0310
		2462	18.022	2453.0090	2471.0310
11N40SISO	Ant6	2422	36.364	2403.8581	2440.2218
		2437	36.284	2418.9381	2455.2218
		2452	36.364	2433.9381	2470.3017

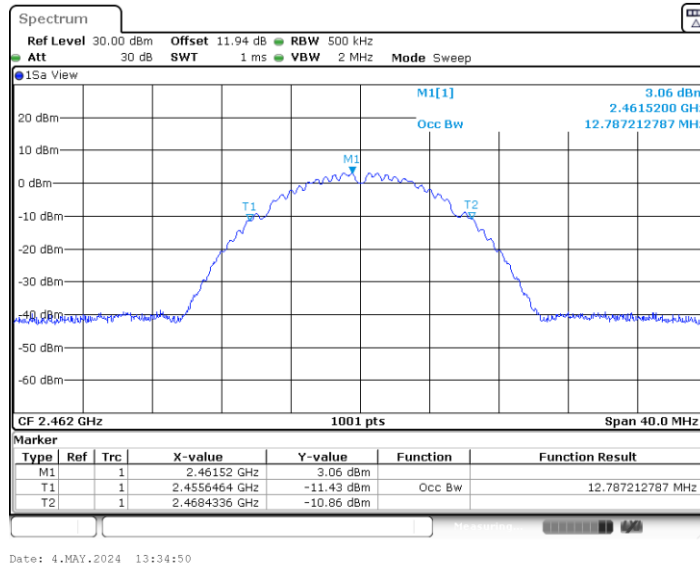


Test Graphs

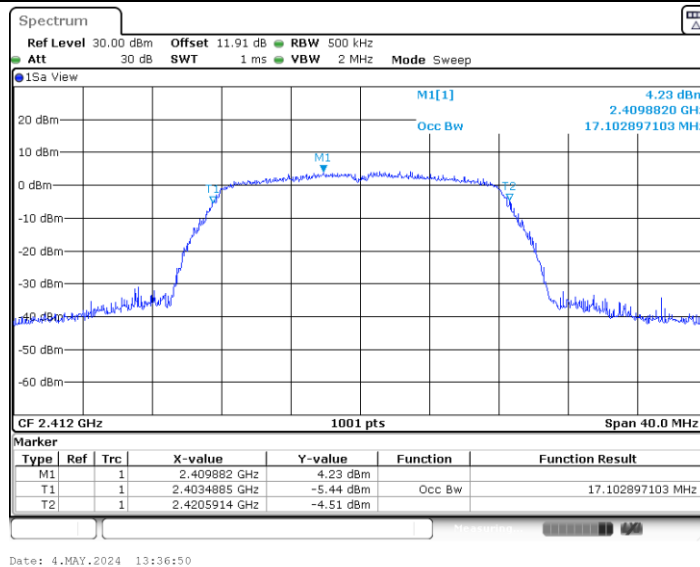




11B_Ant6_2462

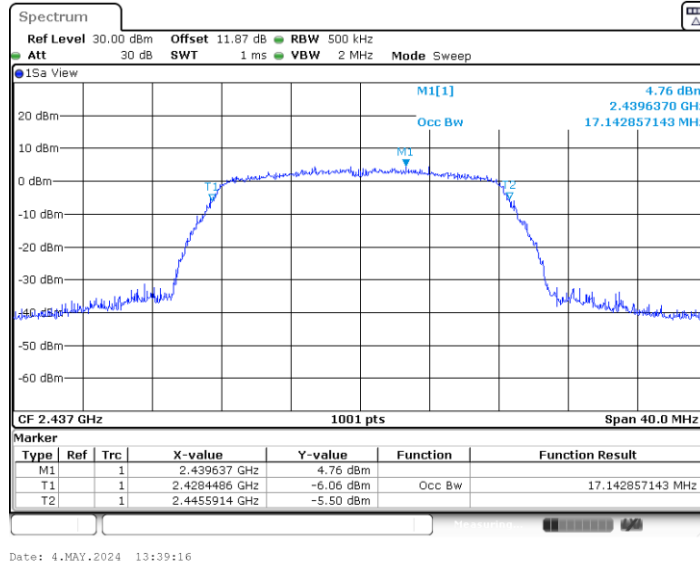


11G_Ant6_2412

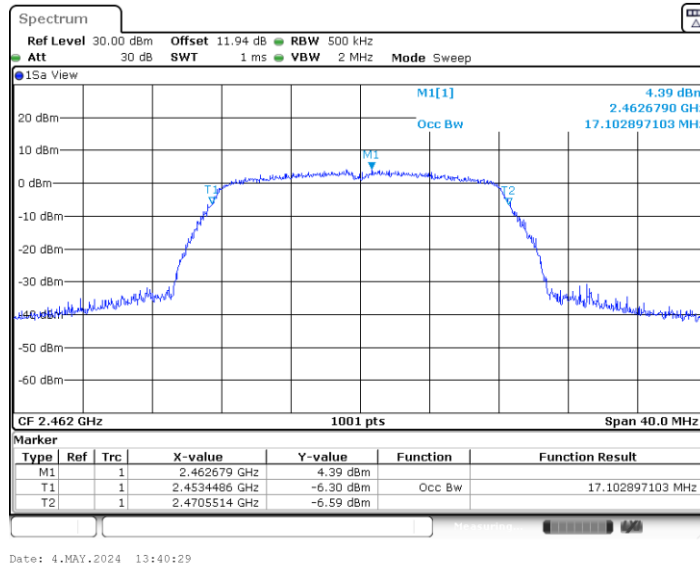




11G_Ant6_2437

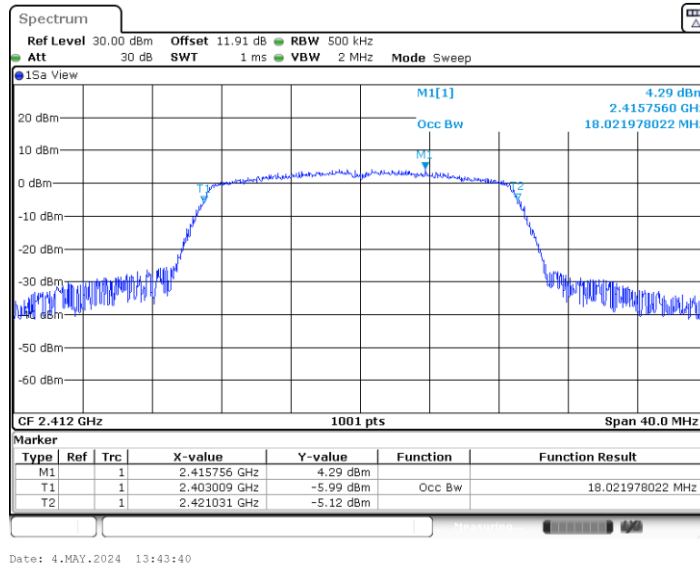


11G_Ant6_2462

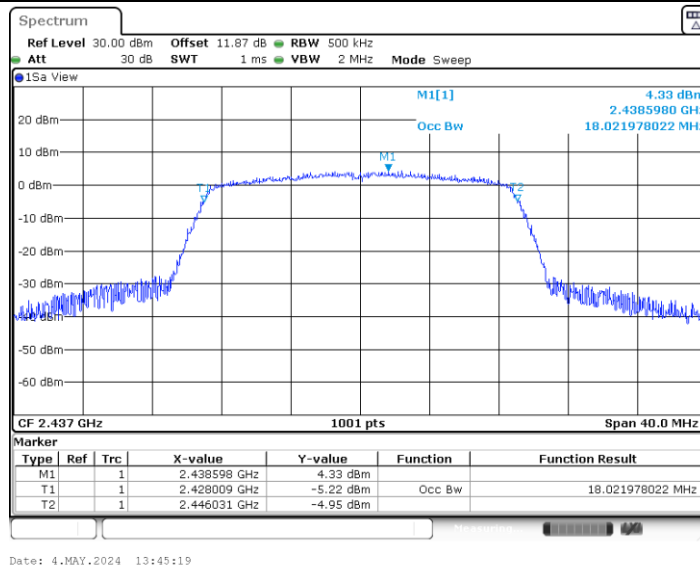




11N20SISO_Ant6_2412

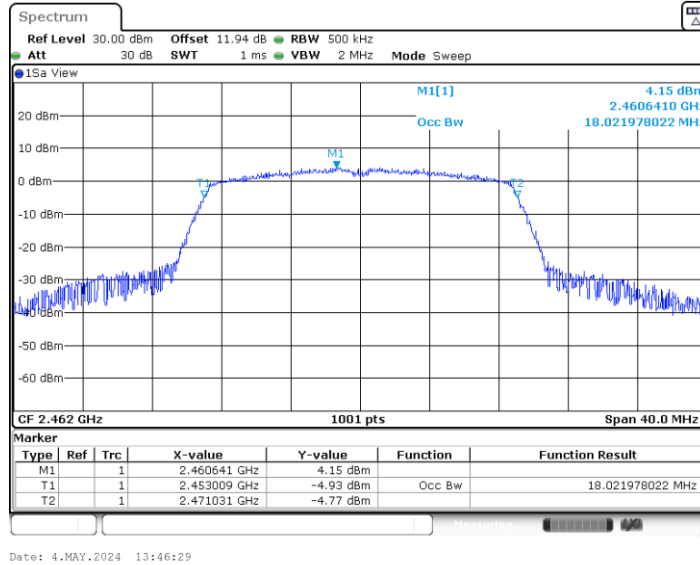


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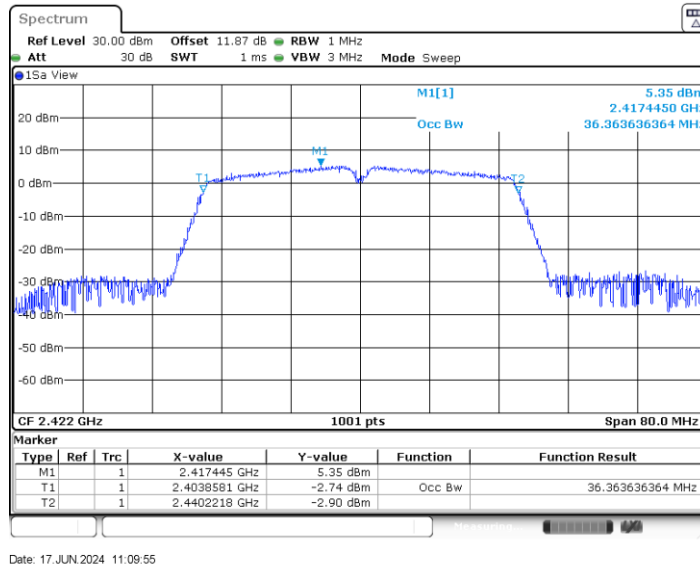




11N20SISO_Ant6_2462

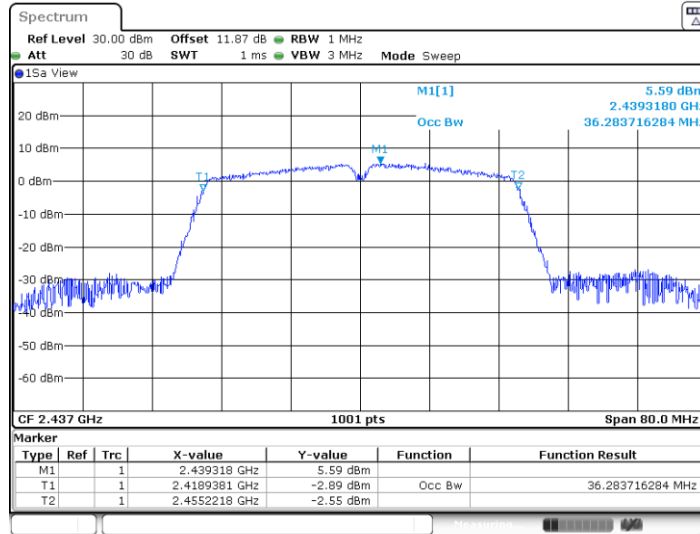


11N40SISO_Ant6_2422

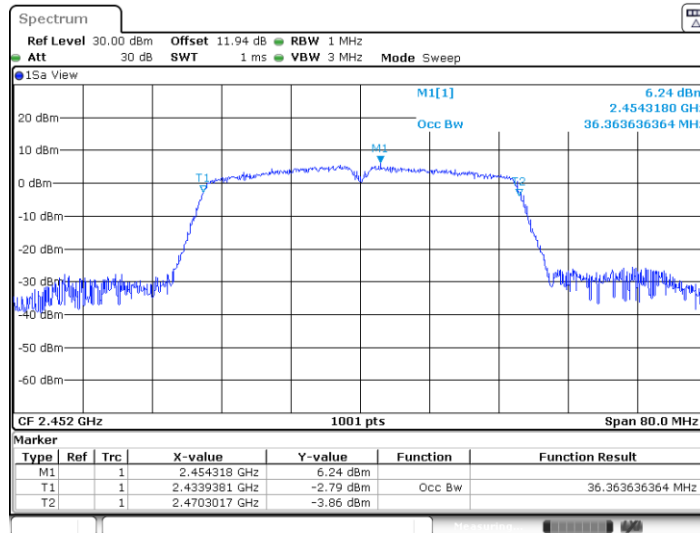




11N40SISO_Ant6_2437



11N40SISO_Ant6_2452





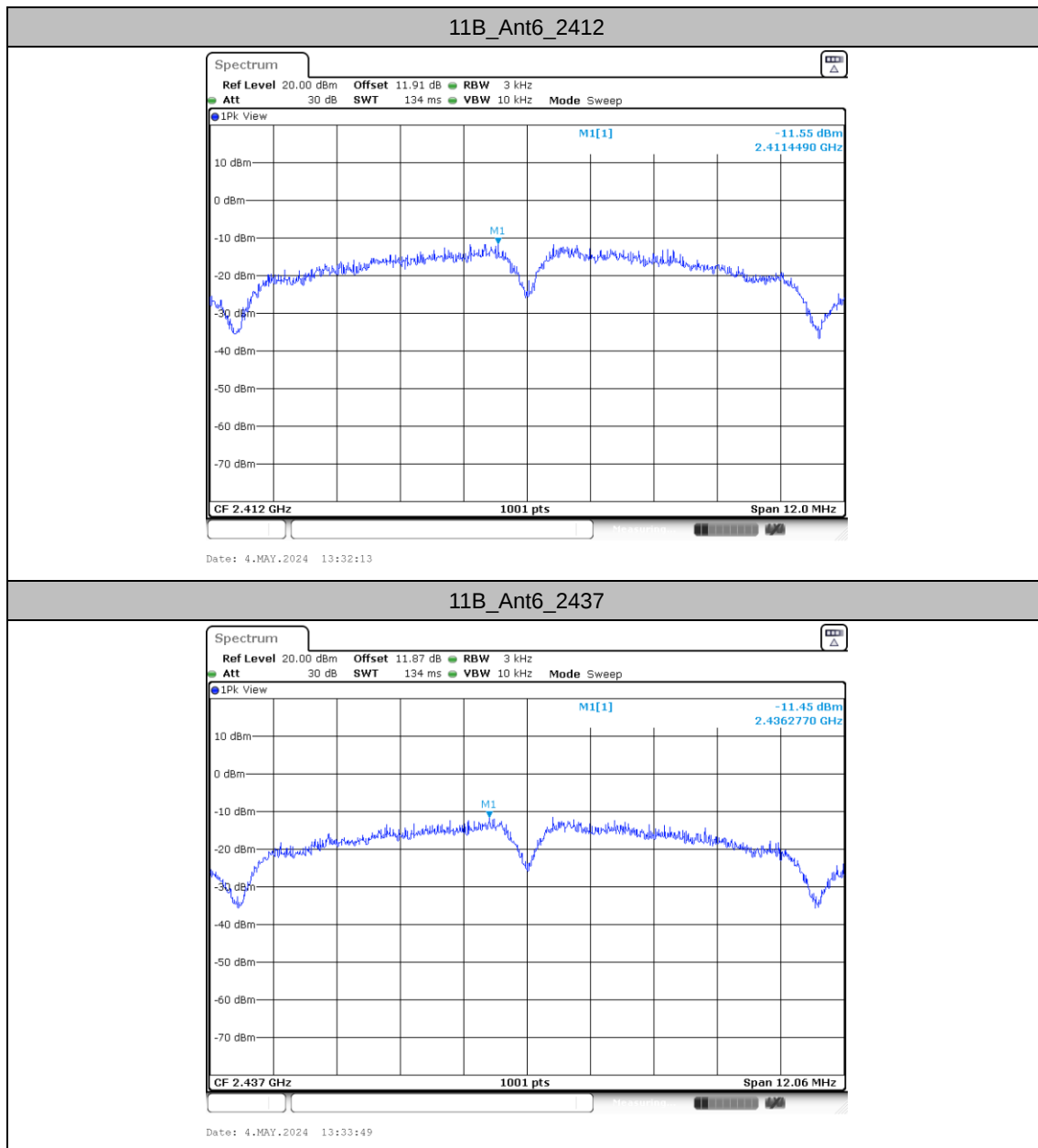
Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant6	2412	-11.55	≤8.00	PASS
		2437	-11.45	≤8.00	PASS
		2462	-10.75	≤8.00	PASS
11G	Ant6	2412	-13.91	≤8.00	PASS
		2437	-12.79	≤8.00	PASS
		2462	-13.78	≤8.00	PASS
11N20SISO	Ant6	2412	-14.33	≤8.00	PASS
		2437	-14.18	≤8.00	PASS
		2462	-14.73	≤8.00	PASS
11N40SISO	Ant6	2422	-17.24	≤8.00	PASS
		2437	-17.4	≤8.00	PASS
		2452	-16.98	≤8.00	PASS

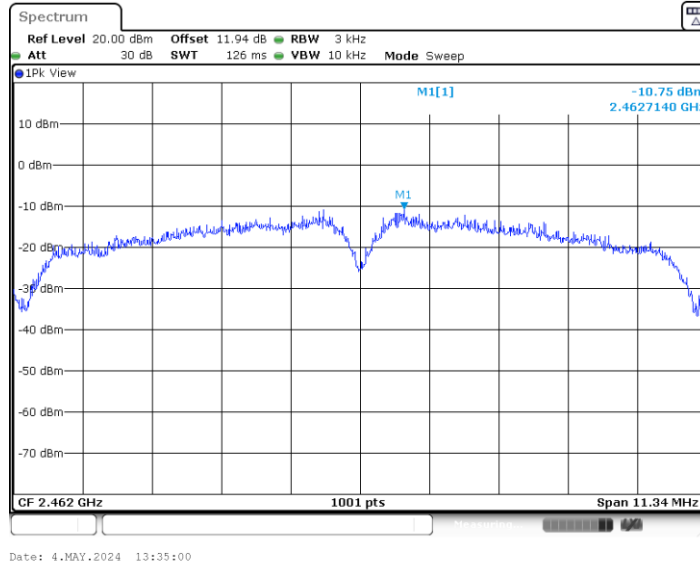


Test Graphs

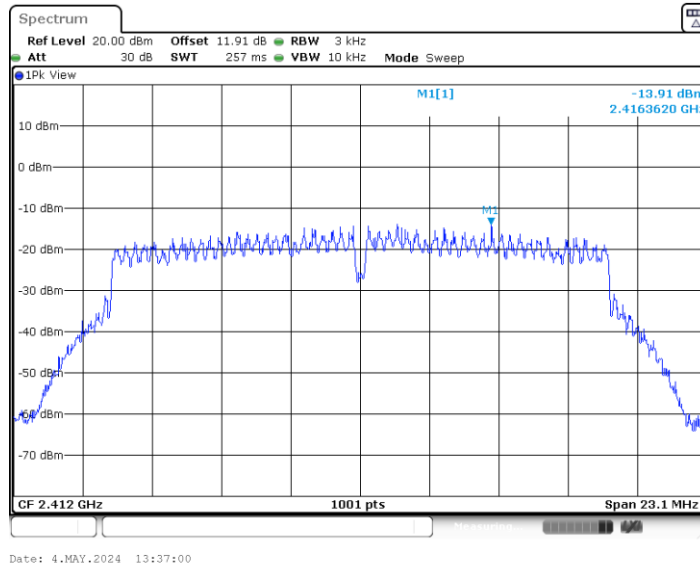




11B_Ant6_2462

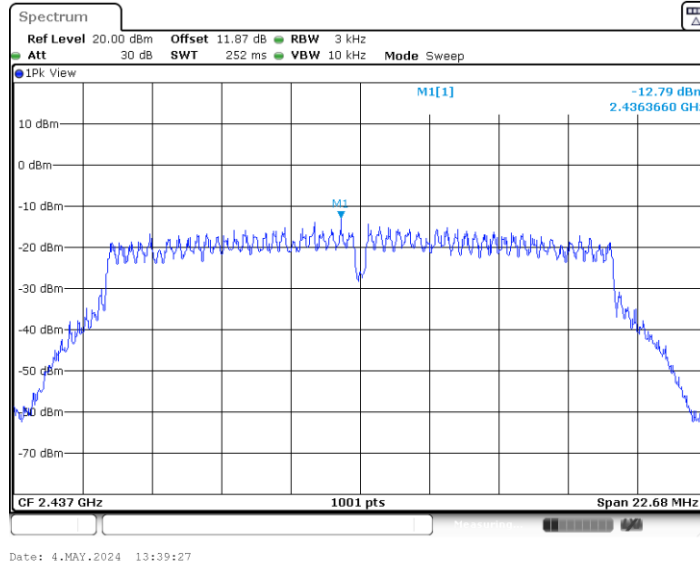


11G_Ant6_2412

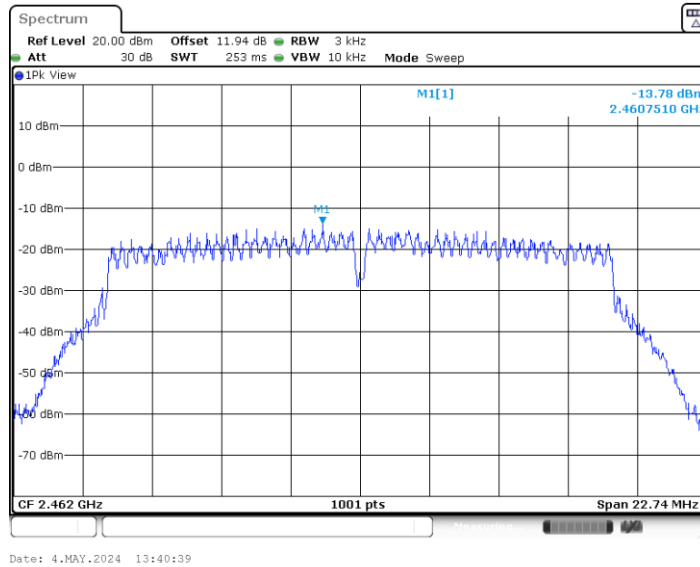




11G_Ant6_2437

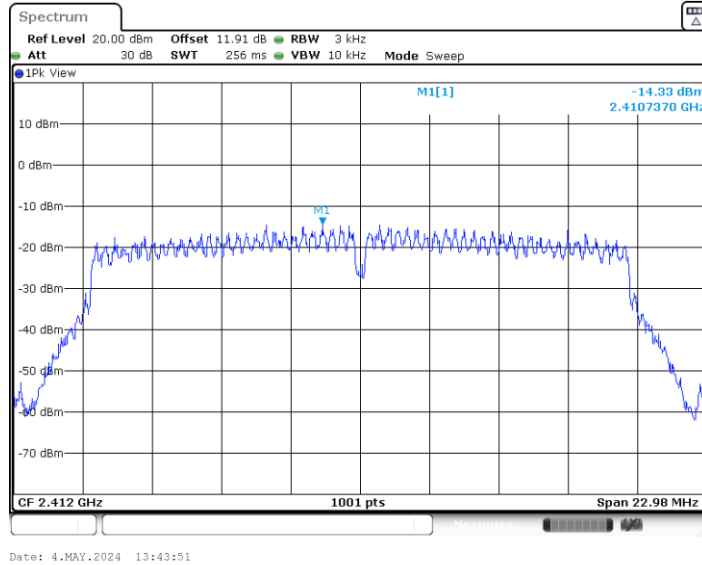


11G_Ant6_2462

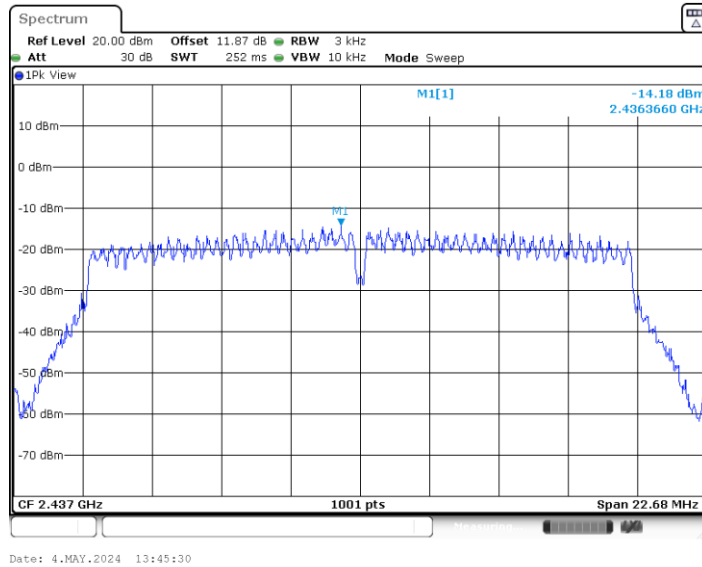




11N20SISO_Ant6_2412

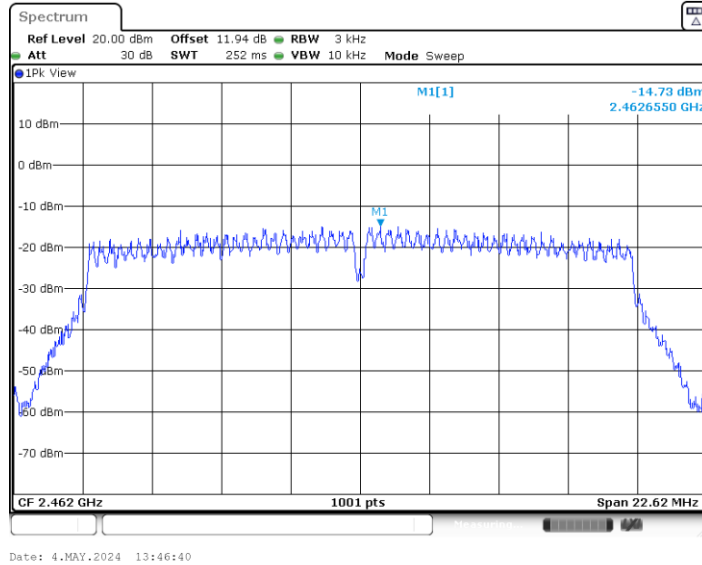


11N20SISO_Ant6_2437

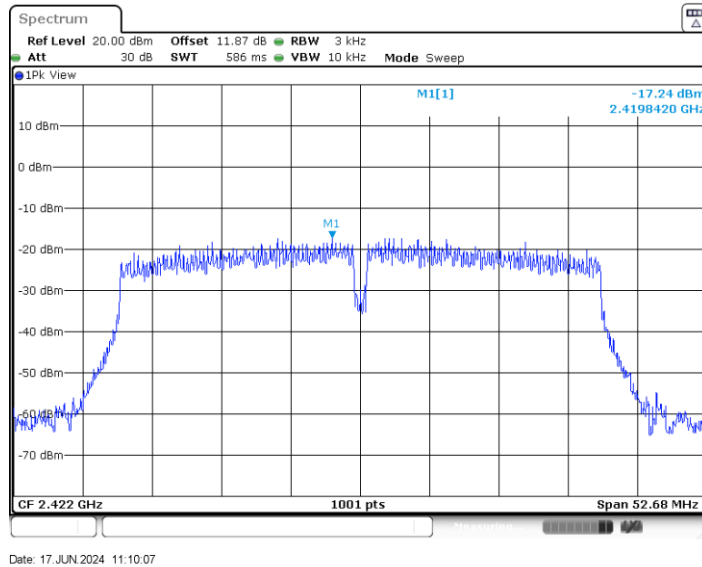




11N20SISO_Ant6_2462

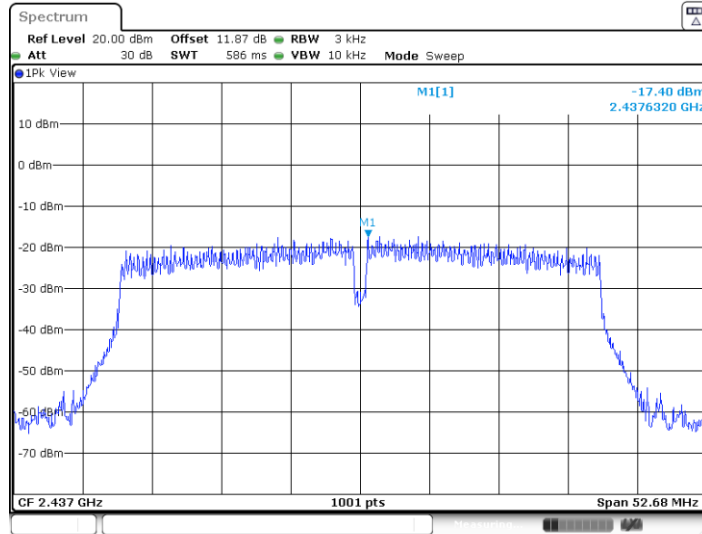


11N40SISO_Ant1_2422



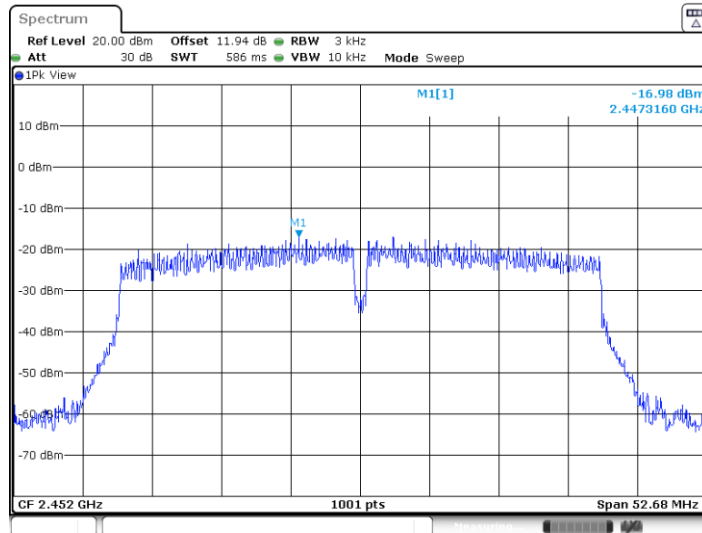


11N40SISO_Ant1_2437



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11N40SISO_Ant1_2452



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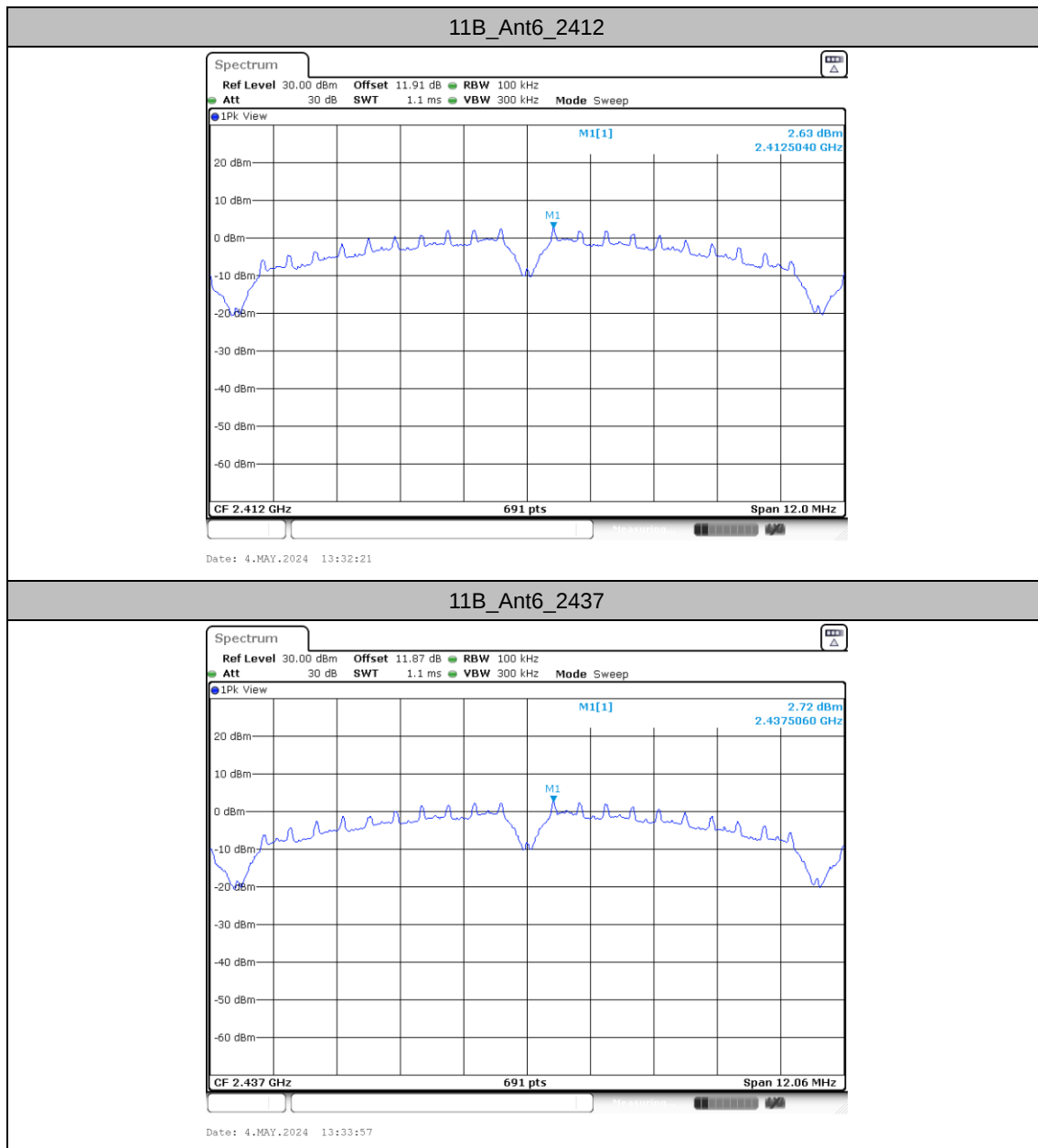
Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm/100KHz]
11B	Ant6	2412	2412.50	2.63
		2437	2437.51	2.72
		2462	2462.51	2.49
11G	Ant6	2412	2410.73	-0.51
		2437	2435.75	-1.01
		2462	2463.25	-0.59
11N20SISO	Ant6	2412	2410.74	-0.01
		2437	2439.49	-0.10
		2462	2464.49	-0.21
11N40SISO	Ant6	2422	2419.48	-2.25
		2437	2434.48	-2.27
		2452	2449.48	-2.10

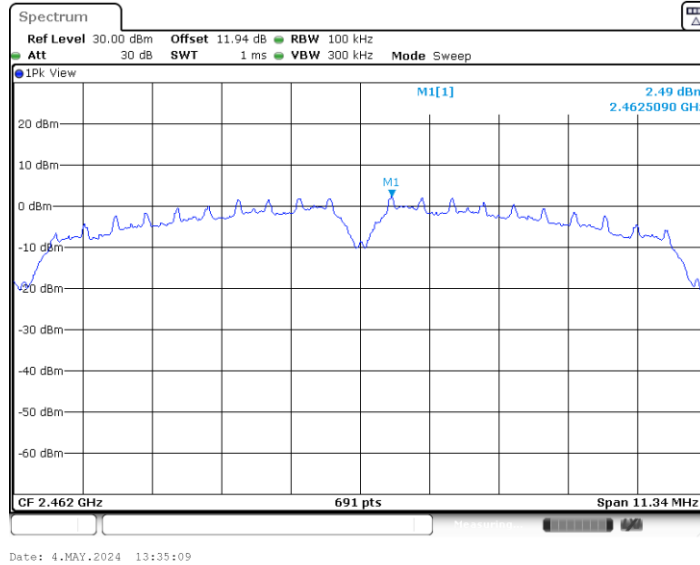


Test Graphs

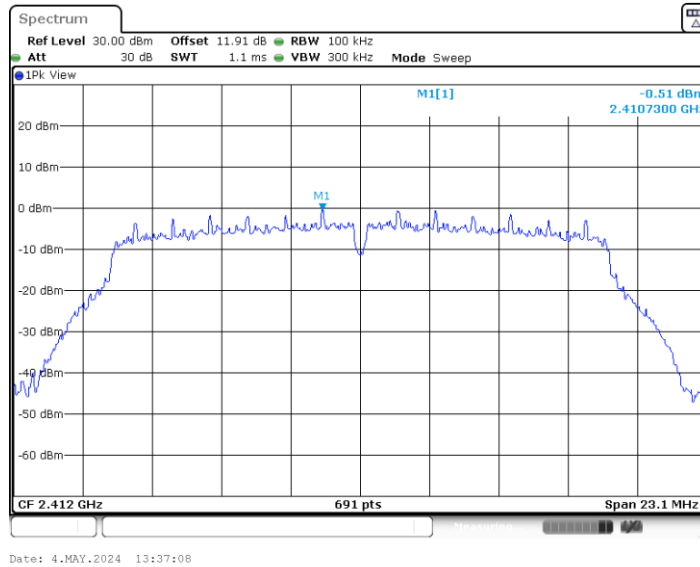




11B_Ant6_2462

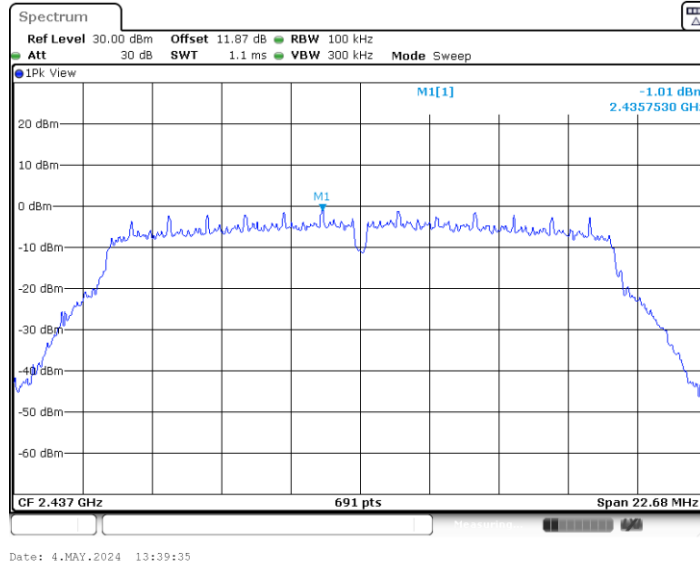


11G_Ant6_2412

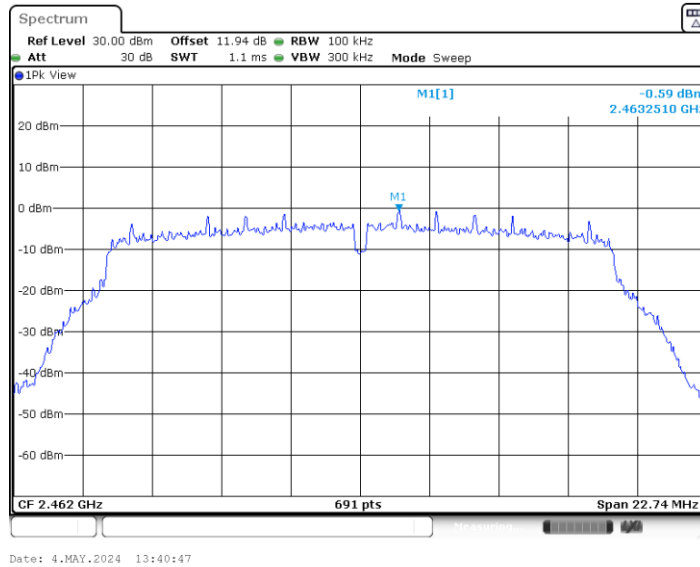




11G_Ant6_2437

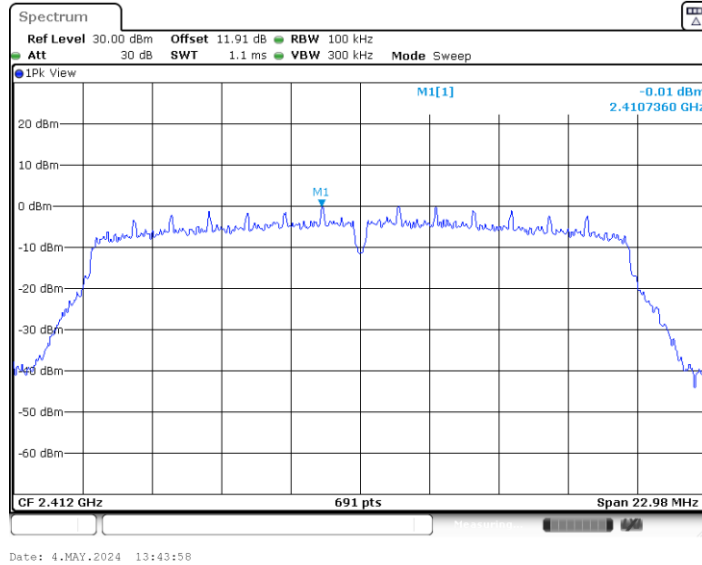


11G_Ant6_2462

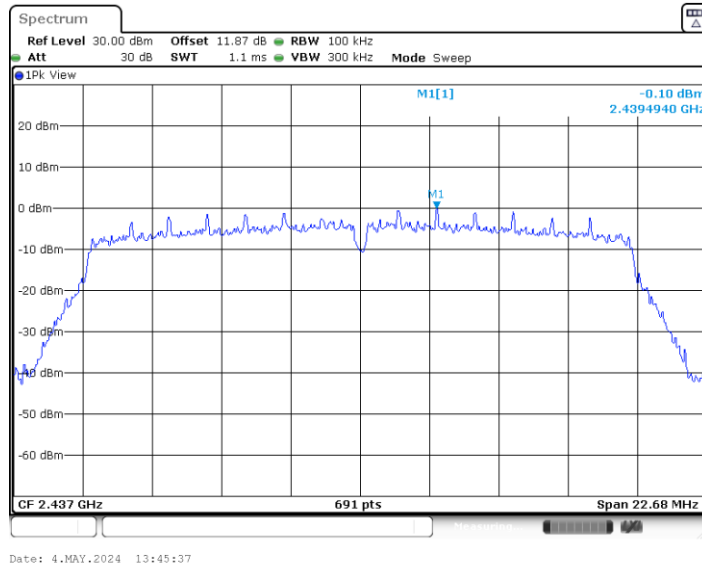




11N20SISO_Ant6_2412

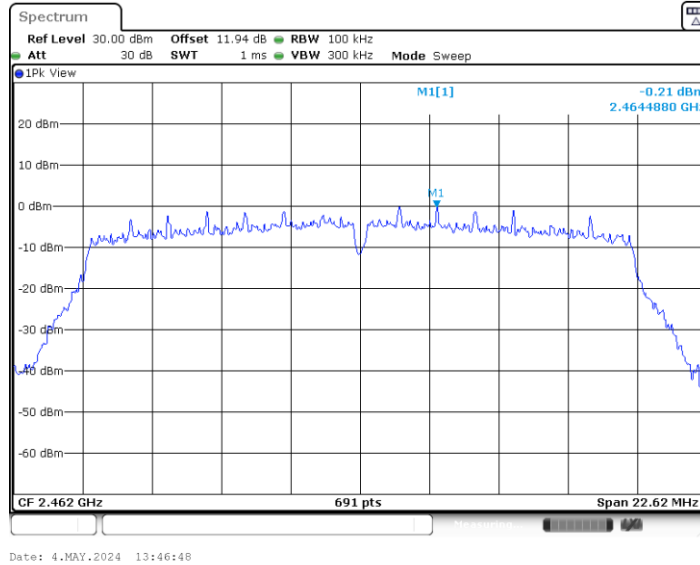


11N20SISO_Ant6_2437

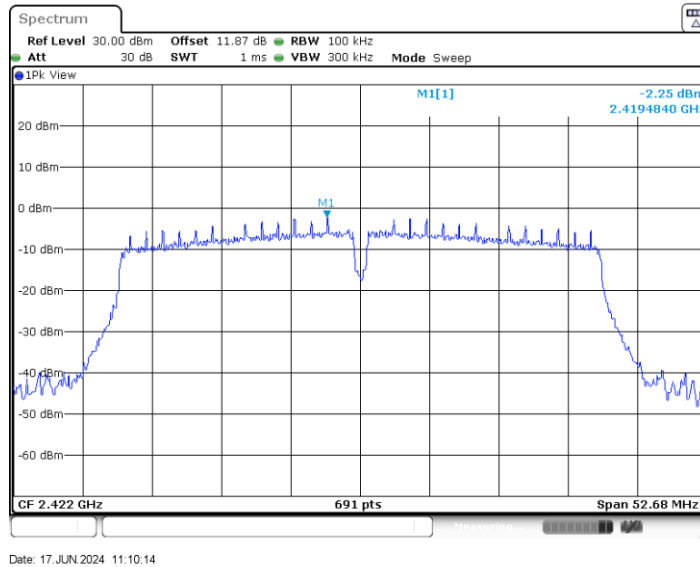




11N20SISO_Ant6_2462

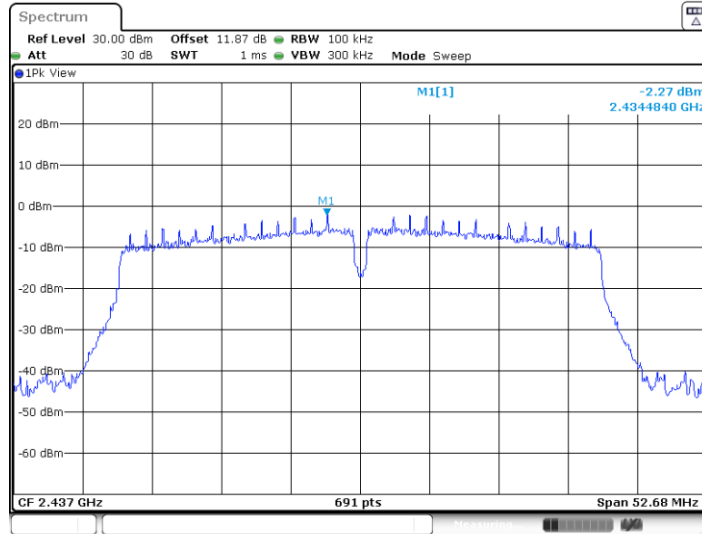


11N40SISO_Ant6_2422



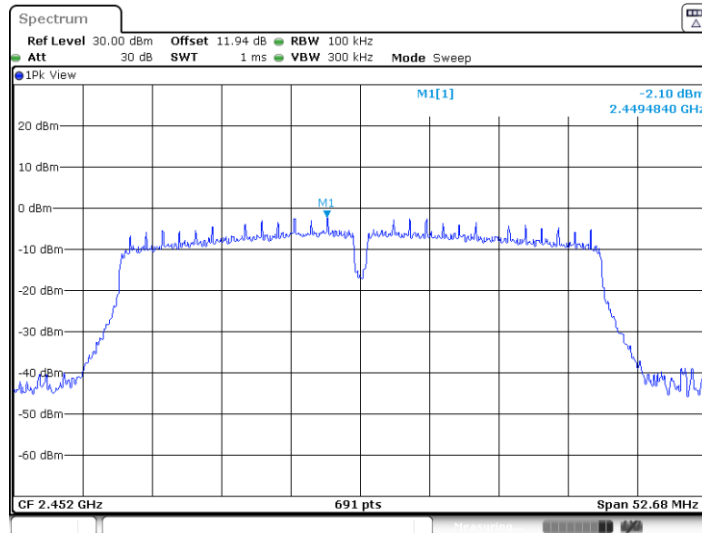


11N40SISO_Ant6_2437



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11N40SISO_Ant6_2452



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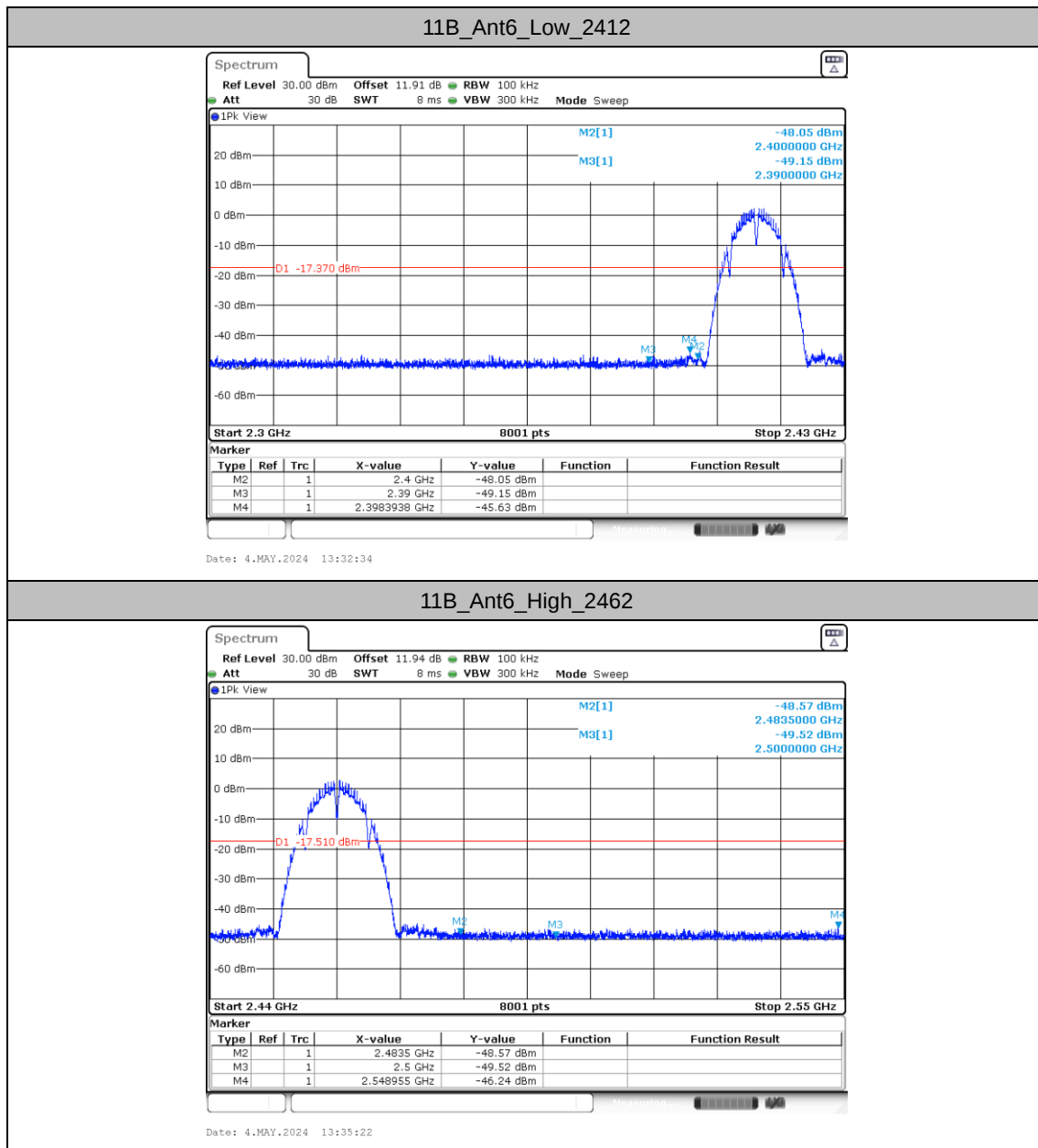
Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm/100KHz]	Result [dBm/100KHz]	Limit [dBm/100KHz]	Verdict
11B	Ant6	Low	2412	2.63	-45.63	≤-17.37	PASS
		High	2462	2.49	-46.24	≤-17.51	PASS
11G	Ant6	Low	2412	-0.51	-41.21	≤-20.51	PASS
		High	2462	-0.59	-45.5	≤-20.59	PASS
11N20SISO	Ant6	Low	2412	-0.01	-38.86	≤-20.01	PASS
		High	2462	-0.21	-45.41	≤-20.21	PASS
11N40SISO	Ant6	Low	2422	-2.25	-40.24	≤-22.25	PASS
		High	2452	-2.10	-40.12	≤-22.1	PASS

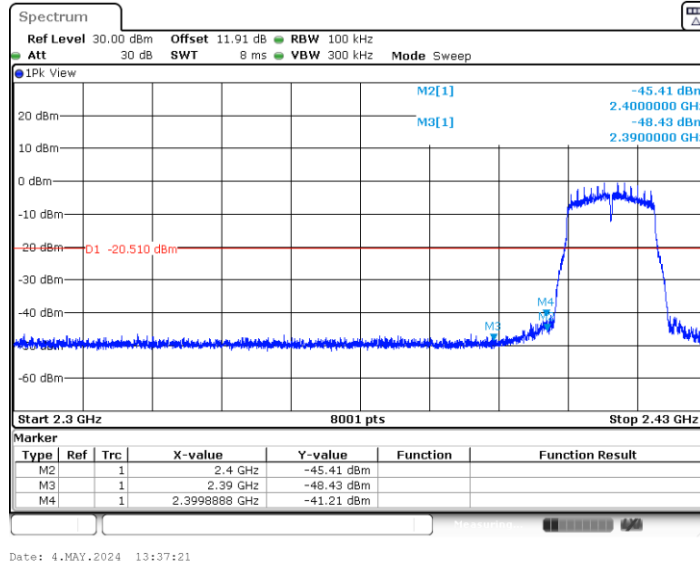


Test Graphs

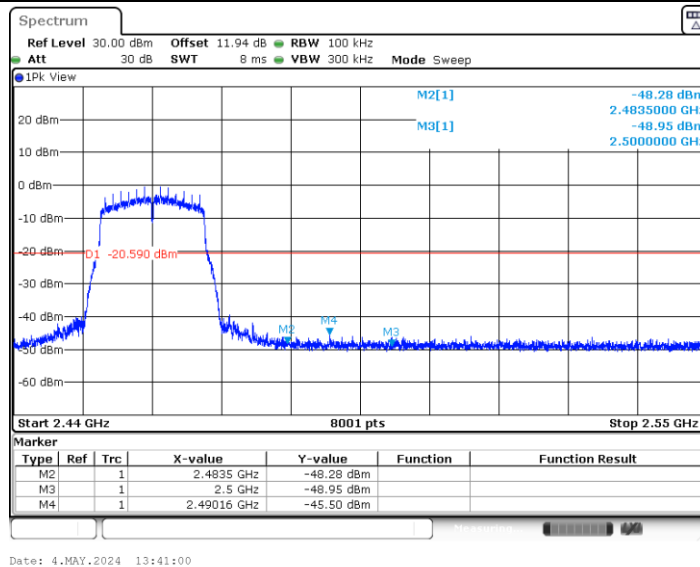




11G_Ant6_Low_2412

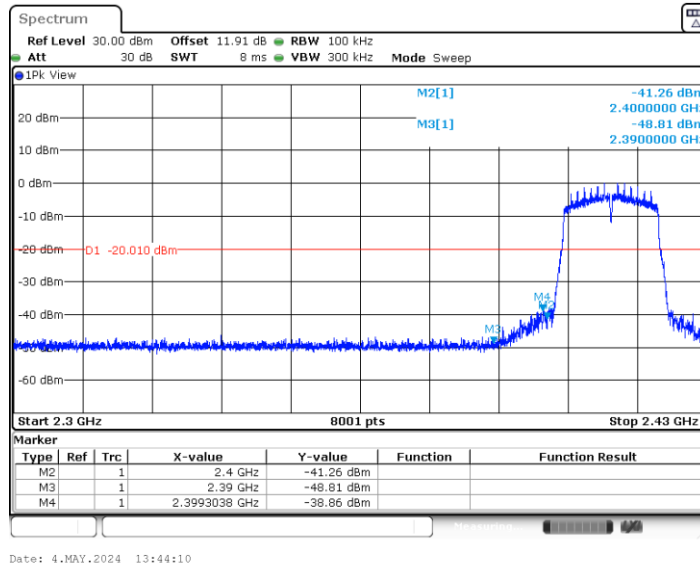


11G_Ant6_High_2462

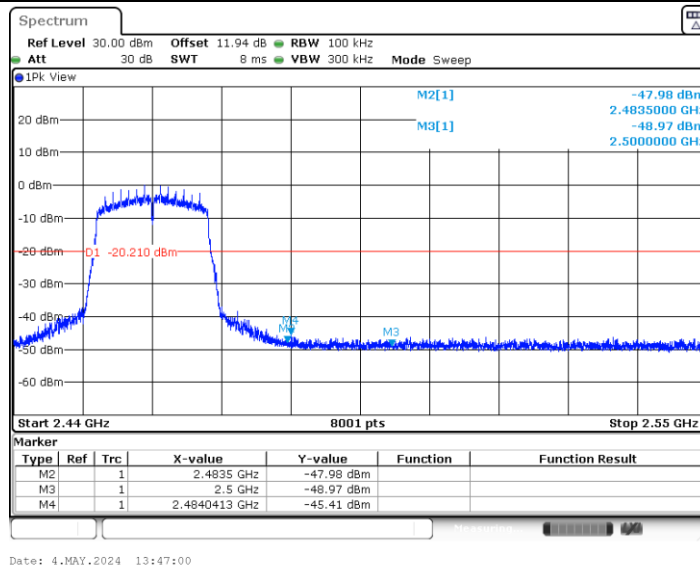




11N20SISO_Ant6_Low_2412

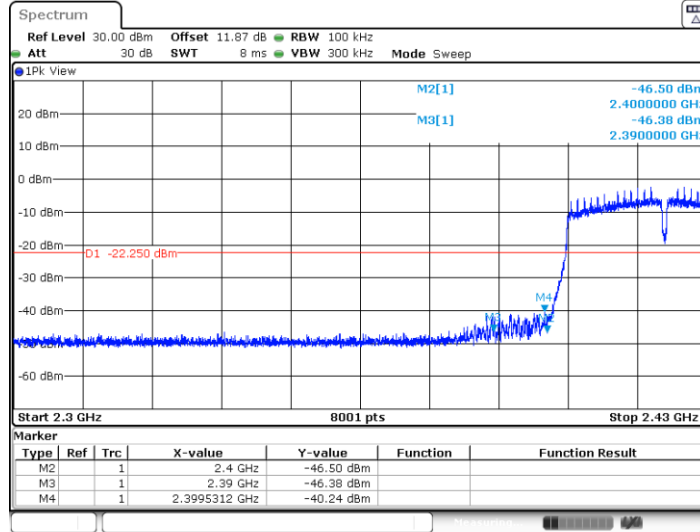


11N20SISO_Ant6_High_2462

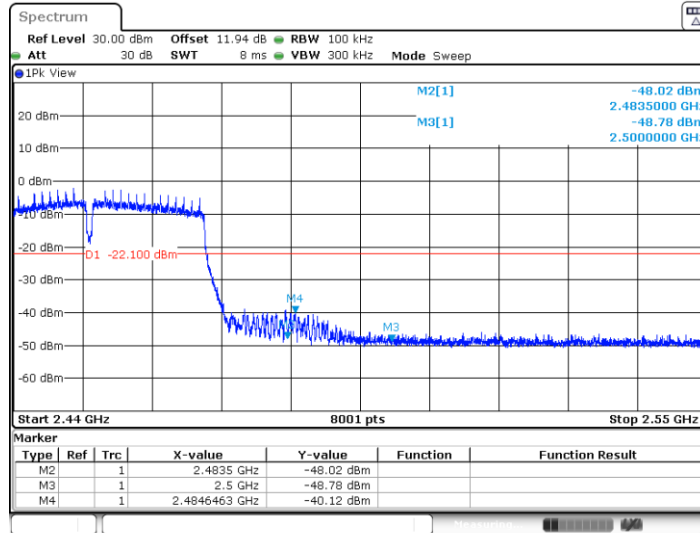




11N40SISO_Ant6_Low_2422



11N40SISO_Ant6_High_2452





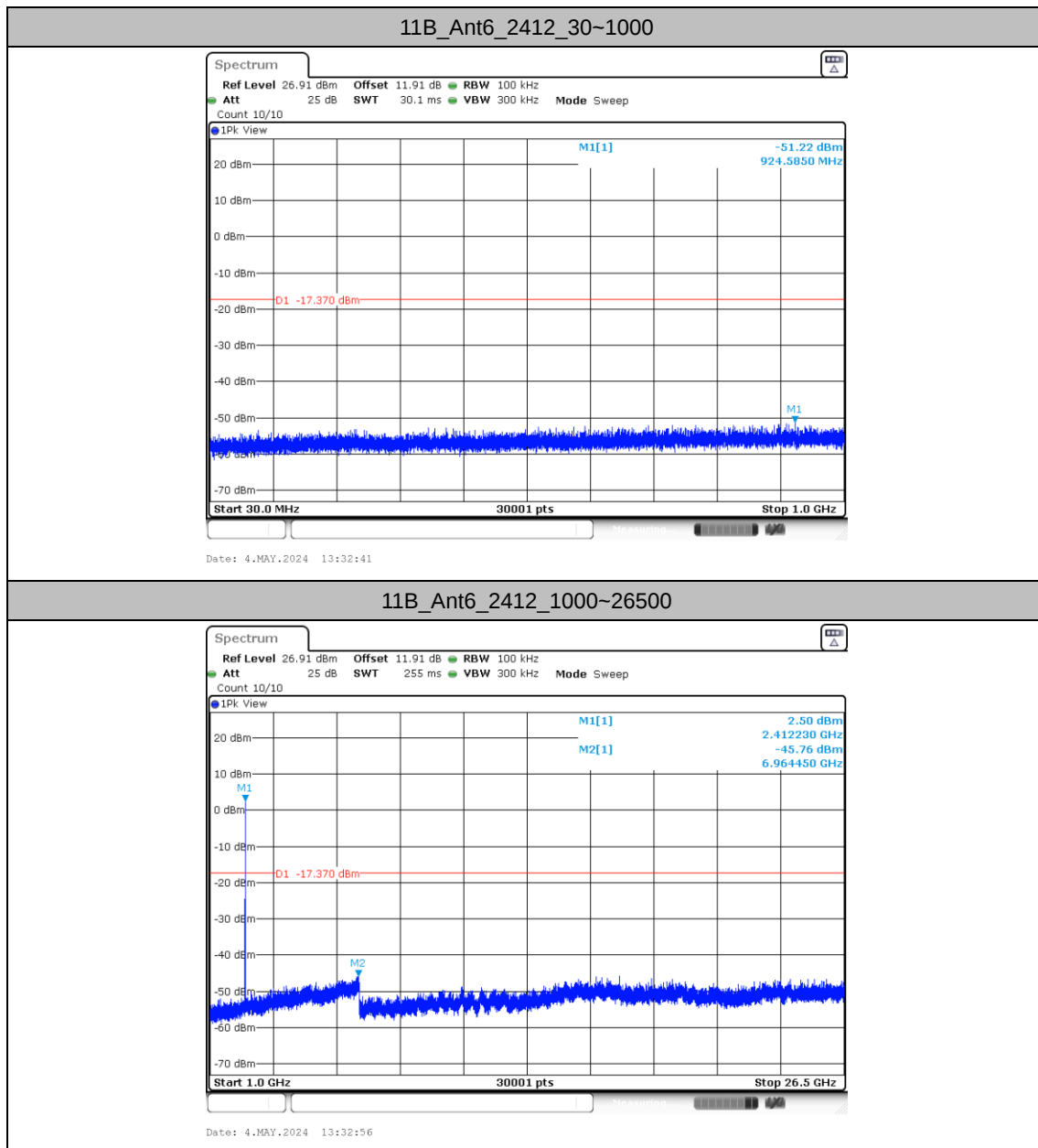
Conducted Spurious Emission

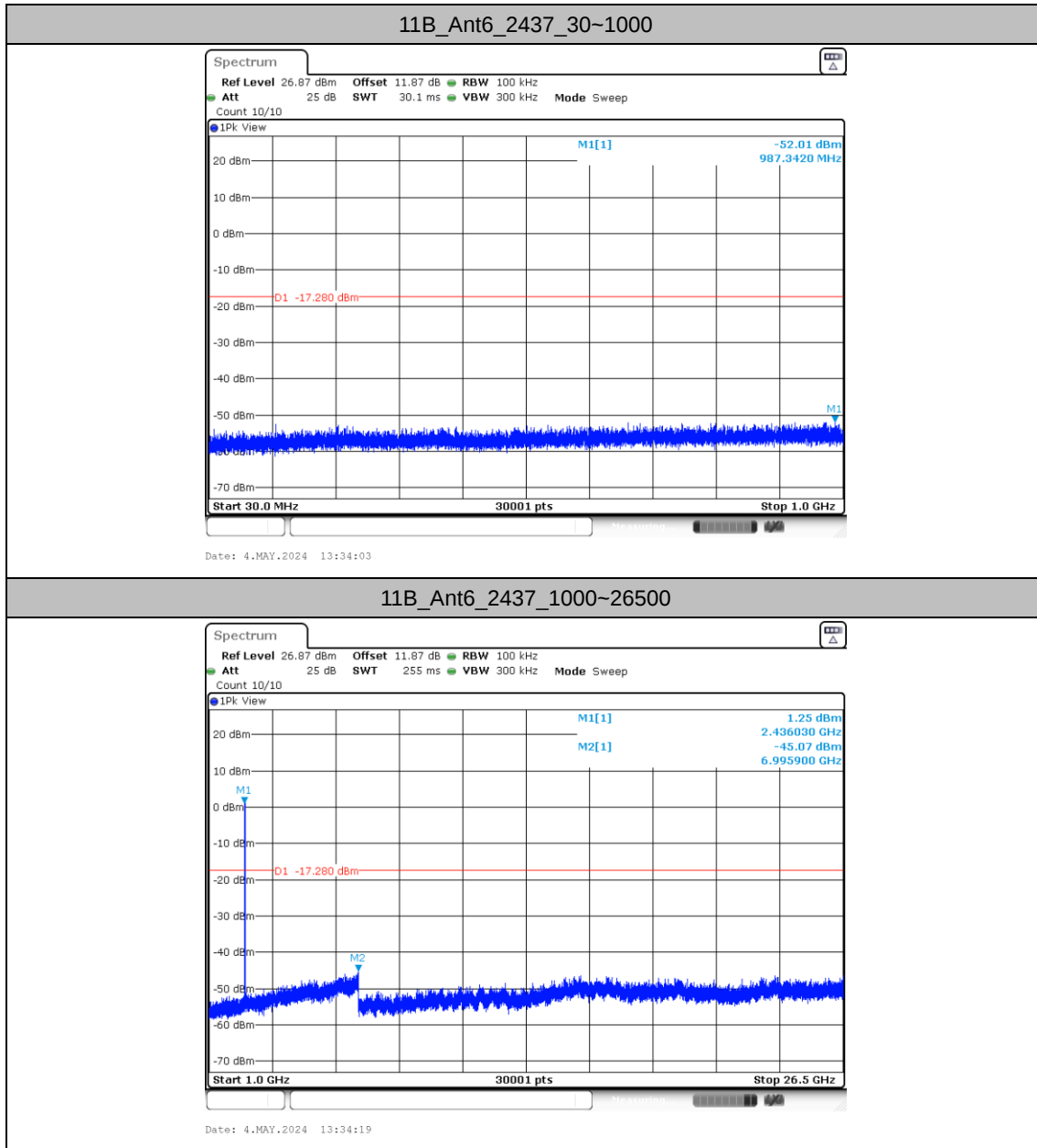
Test Result

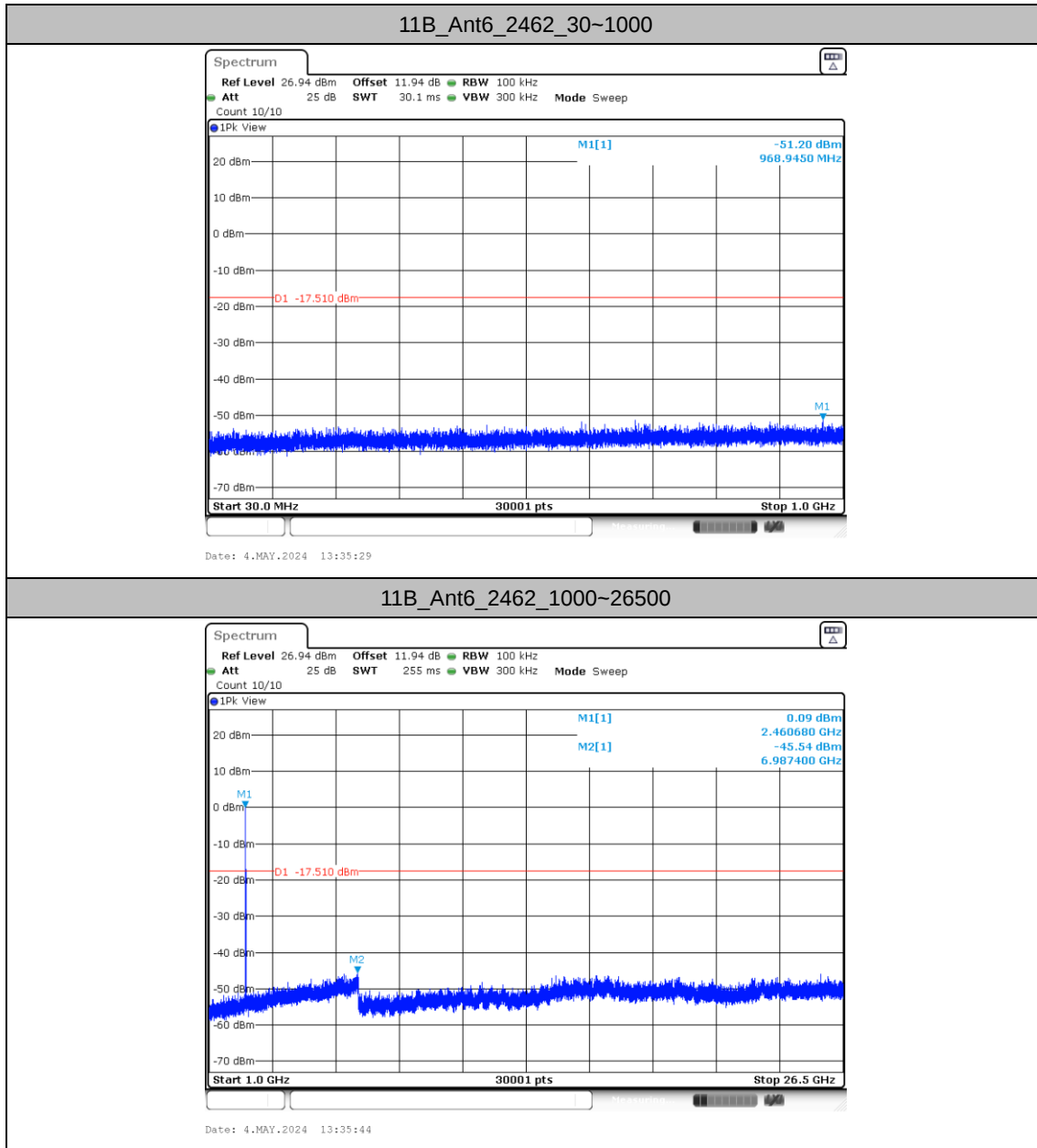
TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm/100KHz]	Result [dBm/100KHz]	Limit [dBm/100KHz]	Verdict
11B	Ant6	2412	30~1000	2.63	-51.22	≤-17.37	PASS
			1000~26500	2.63	-45.76	≤-17.37	PASS
		2437	30~1000	2.72	-52.01	≤-17.28	PASS
			1000~26500	2.72	-45.07	≤-17.28	PASS
		2462	30~1000	2.49	-51.2	≤-17.51	PASS
			1000~26500	2.49	-45.54	≤-17.51	PASS
11G	Ant6	2412	30~1000	-0.51	-51.2	≤-20.51	PASS
			1000~26500	-0.51	-45.6	≤-20.51	PASS
		2437	30~1000	-1.01	-51.68	≤-21.01	PASS
			1000~26500	-1.01	-46.12	≤-21.01	PASS
		2462	30~1000	-0.59	-50.94	≤-20.59	PASS
			1000~26500	-0.59	-45.56	≤-20.59	PASS
11N20SISO	Ant6	2412	30~1000	-0.01	-51.51	≤-20.01	PASS
			1000~26500	-0.01	-45.06	≤-20.01	PASS
		2437	30~1000	-0.10	-51.2	≤-20.1	PASS
			1000~26500	-0.10	-45.57	≤-20.1	PASS
		2462	30~1000	-0.21	-51.33	≤-20.21	PASS
			1000~26500	-0.21	-45.17	≤-20.21	PASS
11N40SISO	Ant6	2422	30~1000	-2.25	-49.88	≤-22.25	PASS
			1000~26500	-2.25	-45.18	≤-22.25	PASS
		2437	30~1000	-2.27	-50.46	≤-22.27	PASS
			1000~26500	-2.27	-44.24	≤-22.27	PASS
		2452	30~1000	-2.10	-50.15	≤-22.1	PASS
			1000~26500	-2.10	-43.99	≤-22.1	PASS

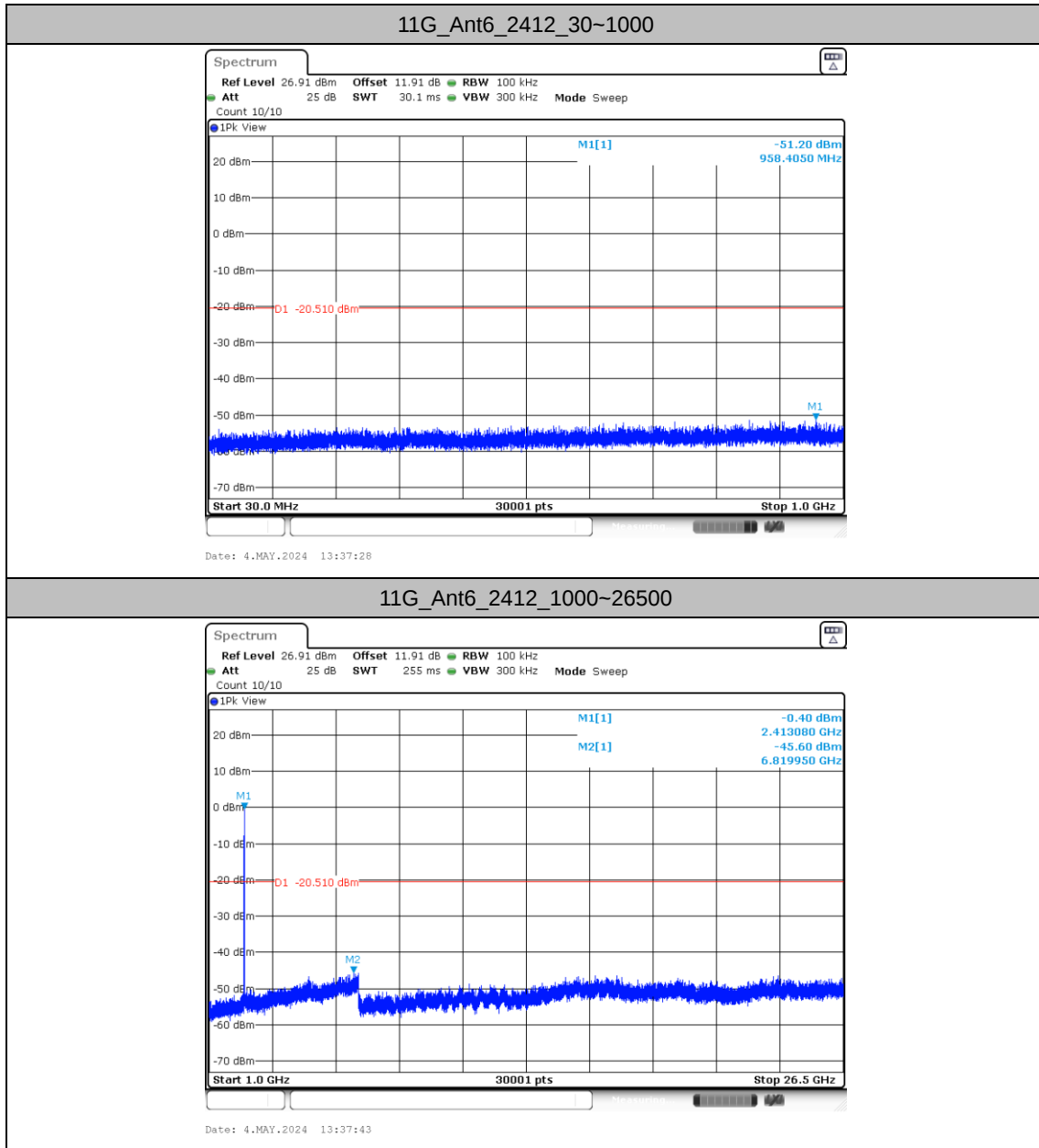


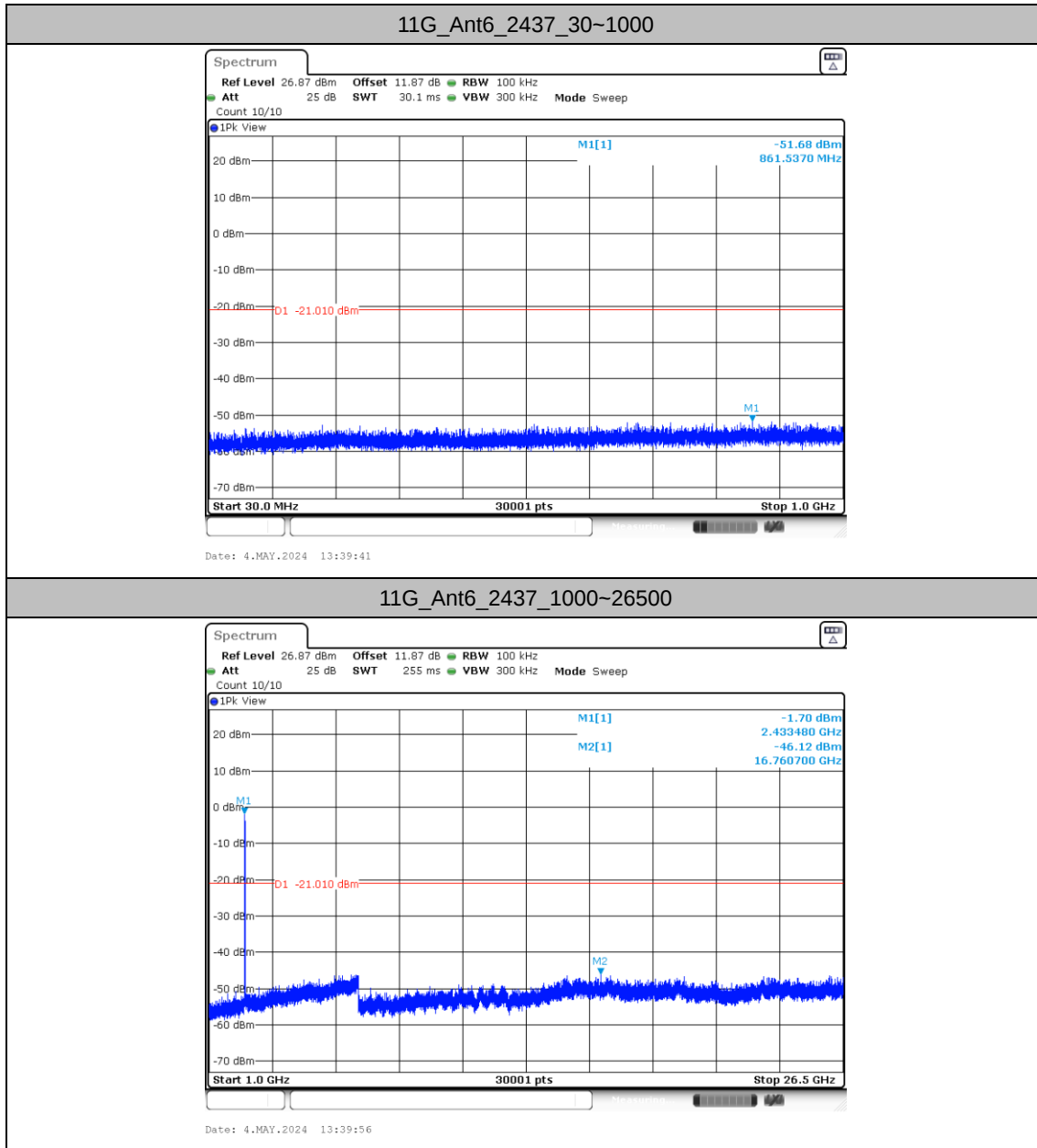
Test Graphs

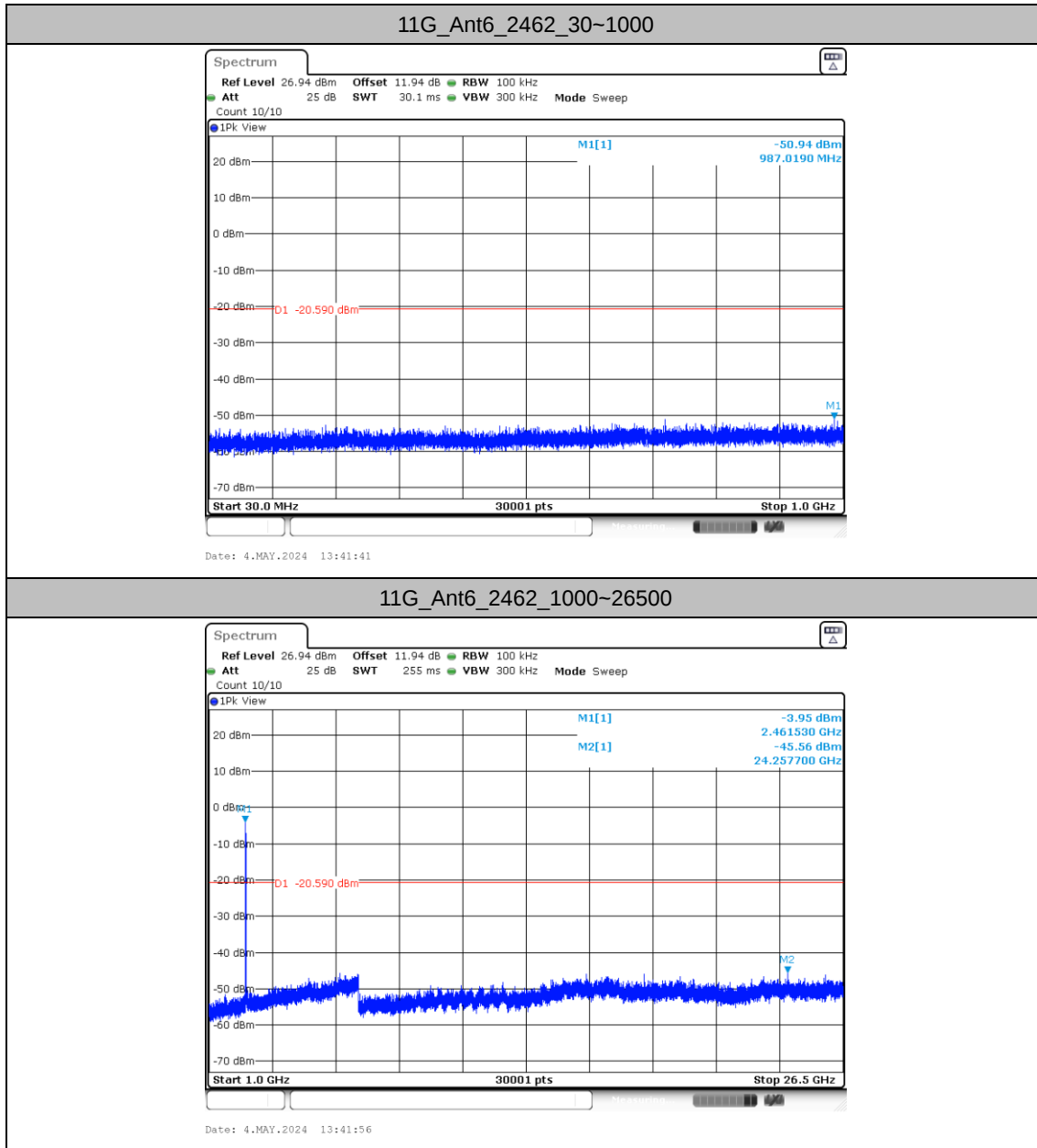


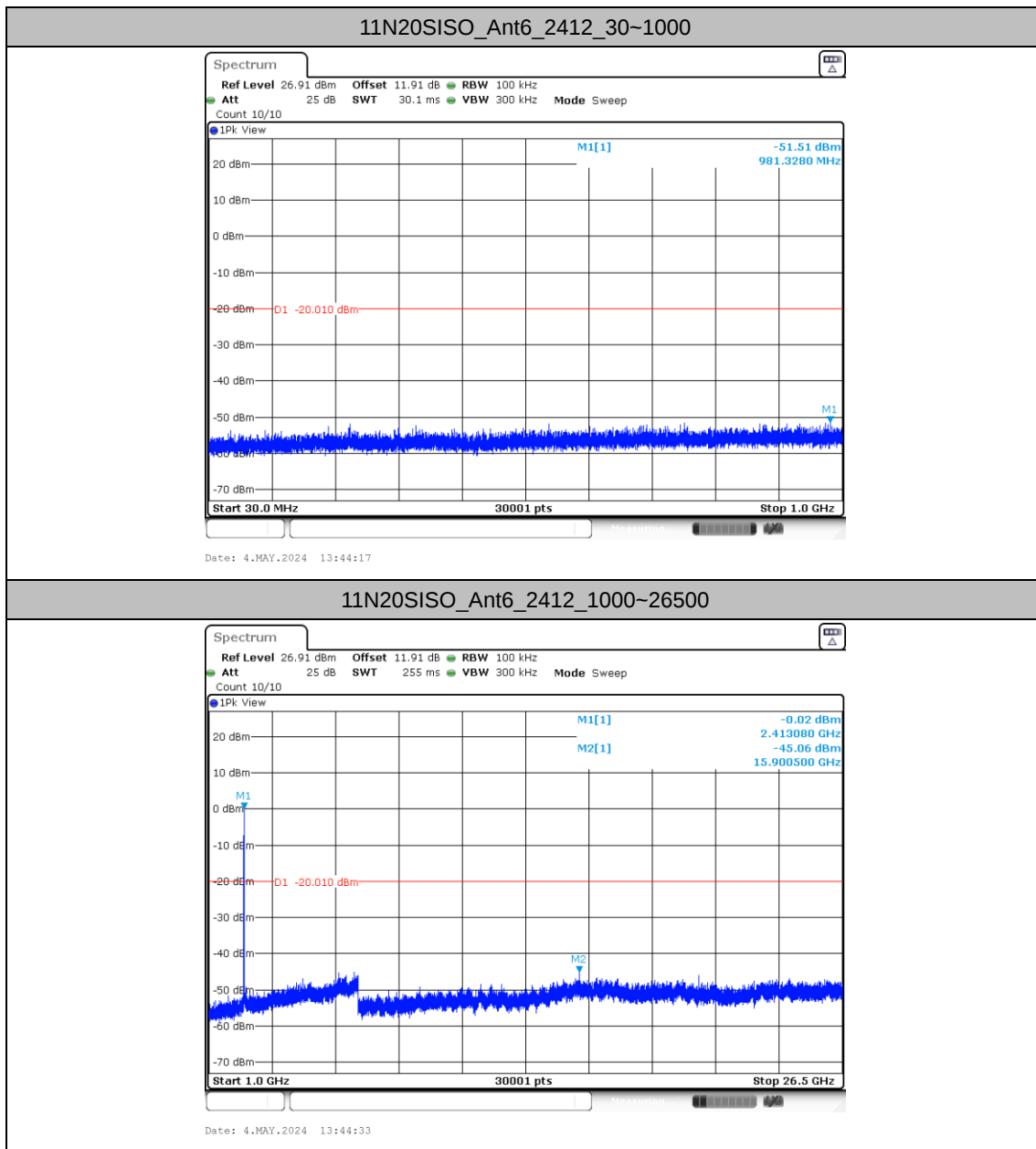


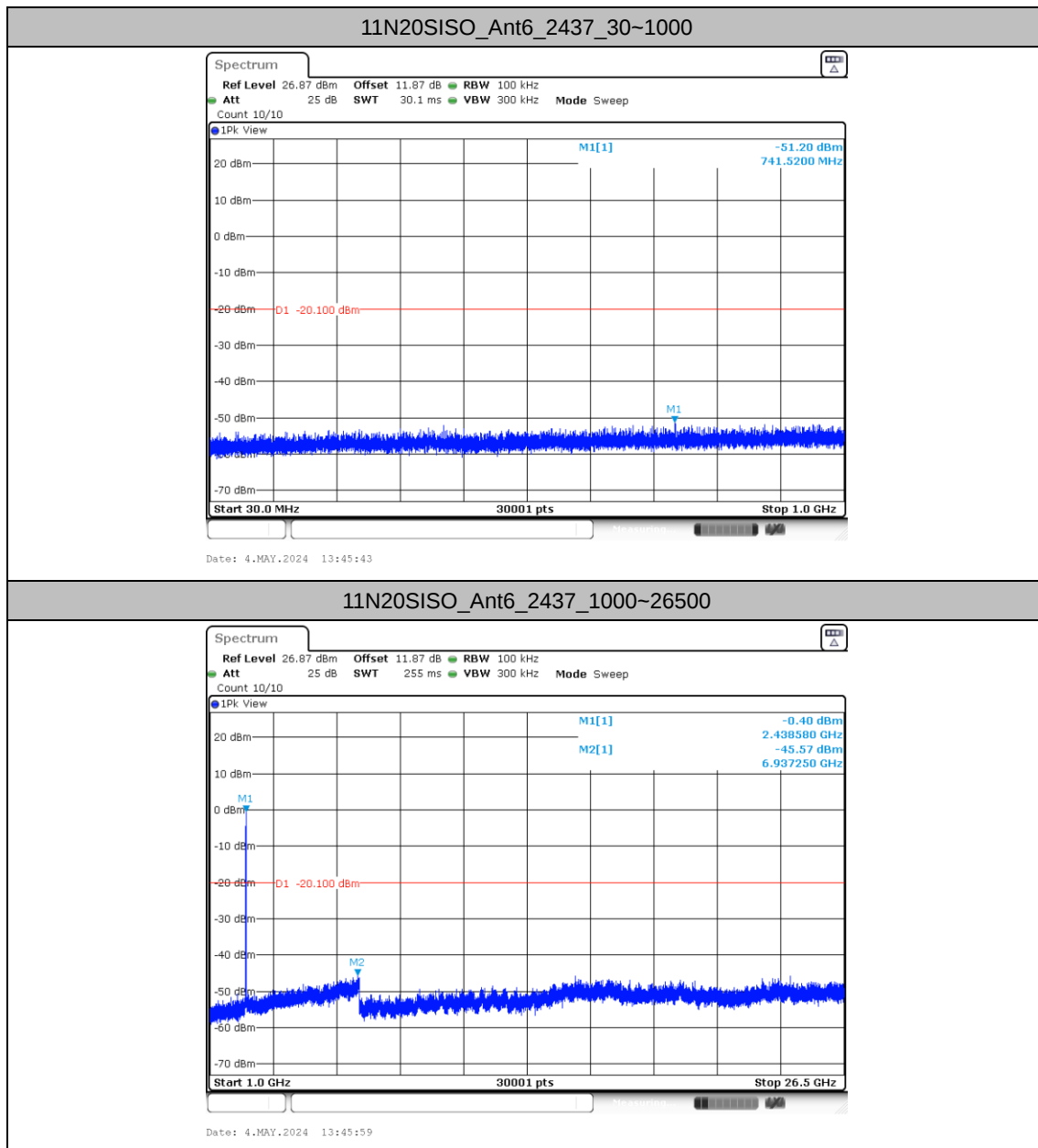






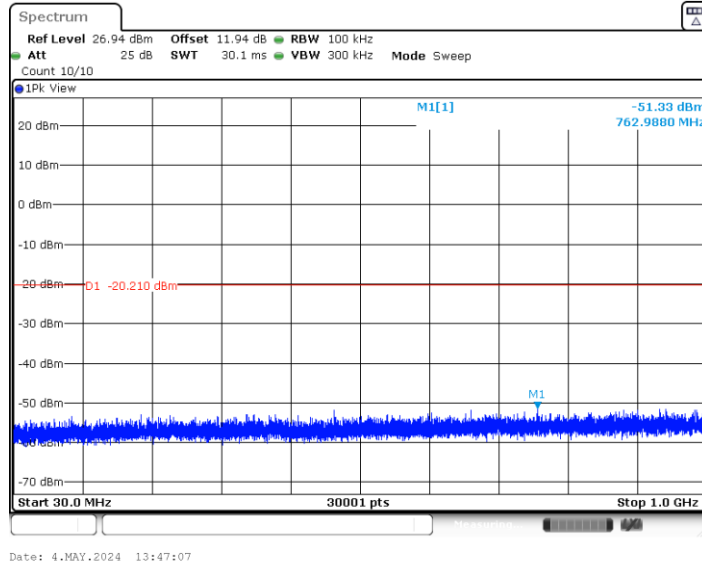




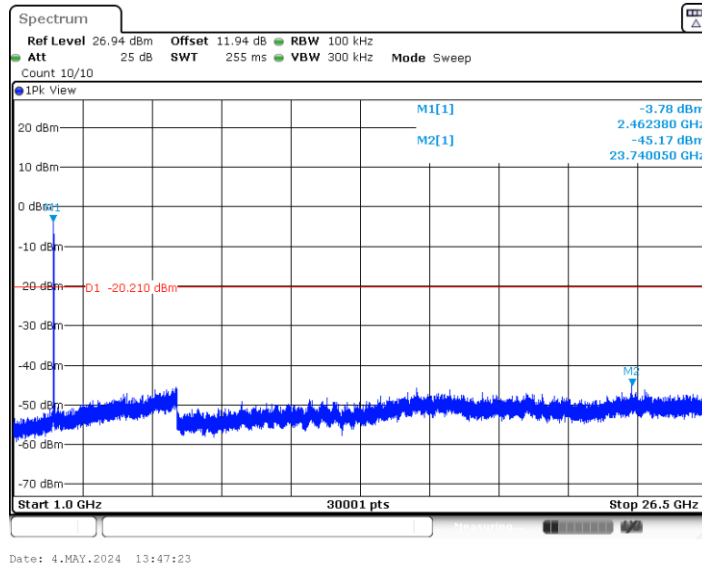




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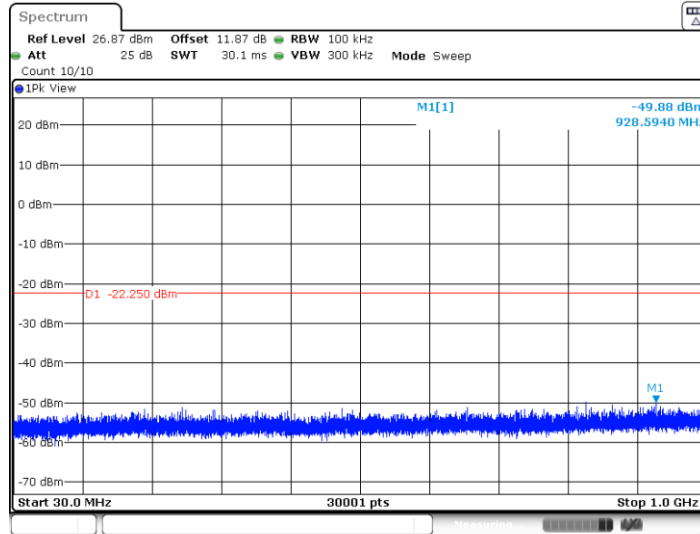


11N20SISO_Ant6_2462_1000~26500



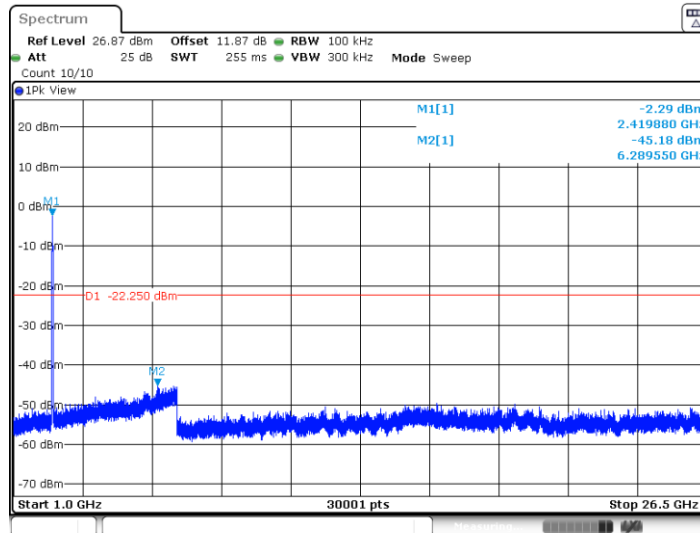


11N40SISO_Ant1_2422_30~1000



Date: 17 JUN 2024 11:10:33

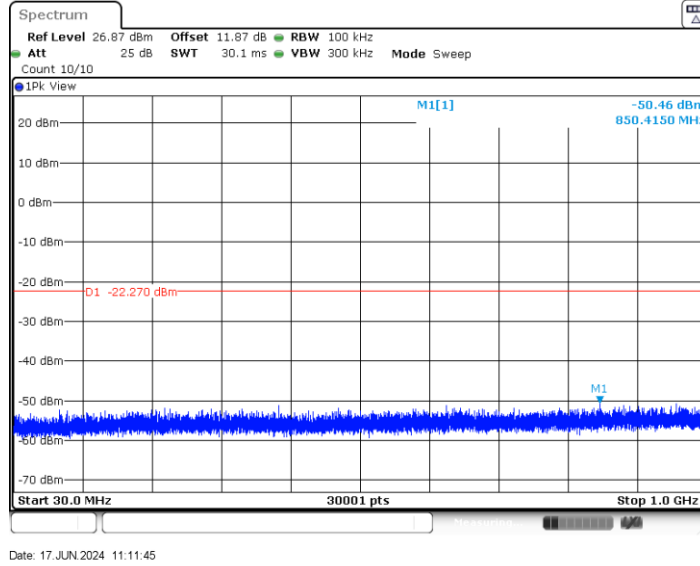
11N40SISO_Ant1_2422_1000~26500



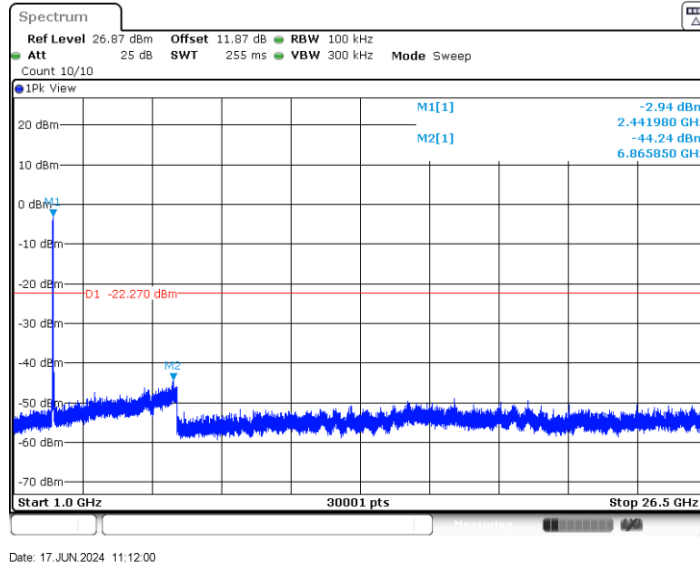
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11N40SISO_Ant1_2437_30~1000

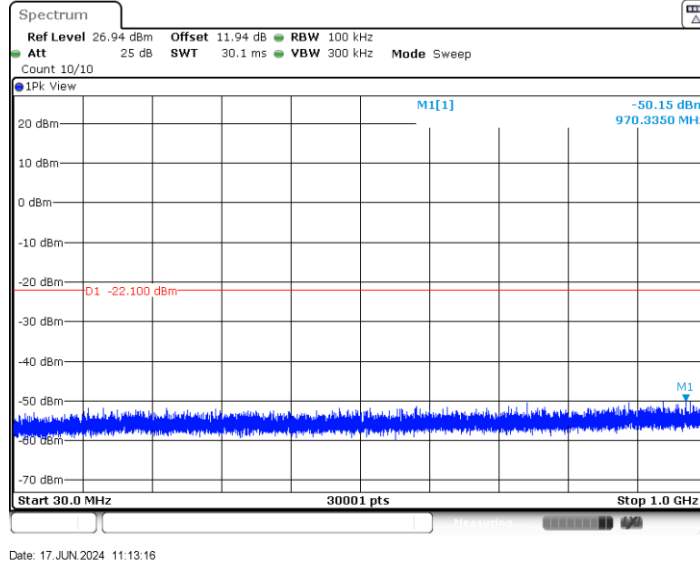


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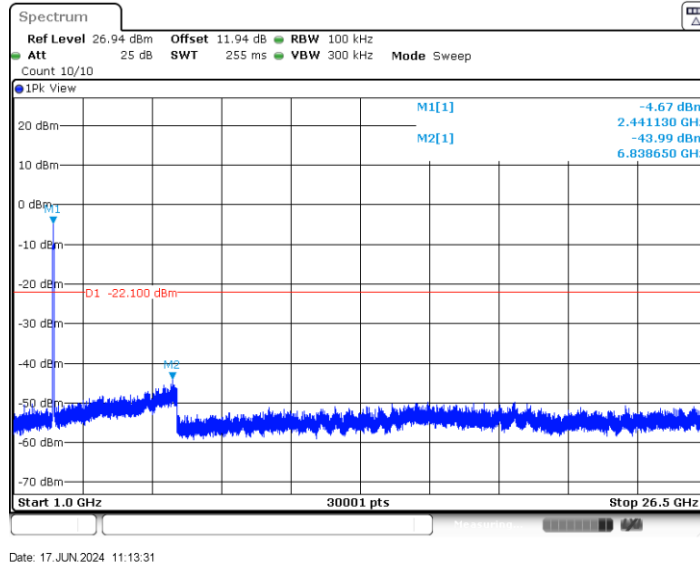




11N40SISO_Ant1_2452_30~1000



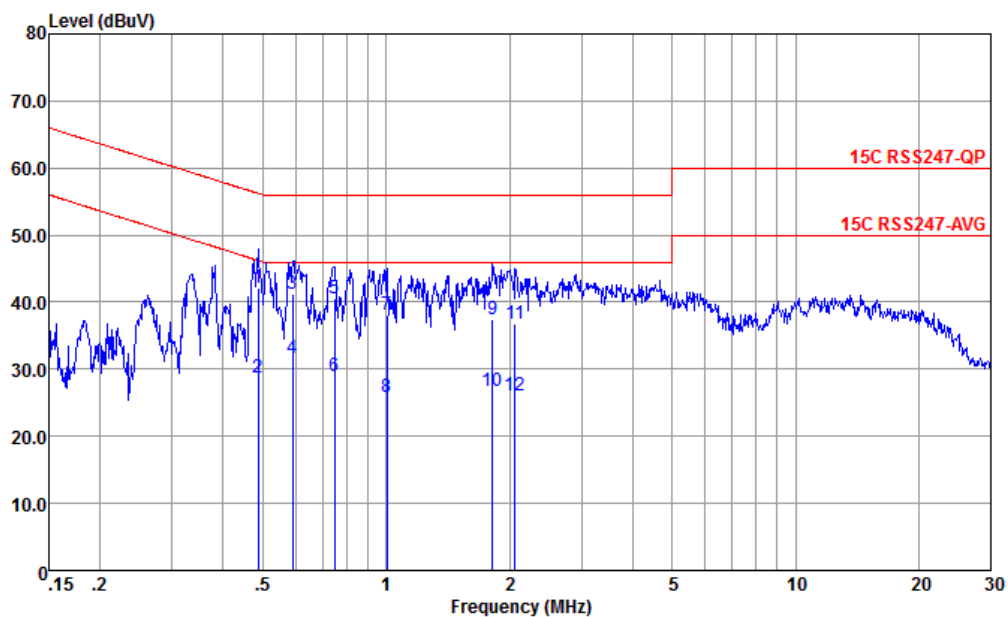
11N40SISO_Ant1_2452_1000~26500





Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



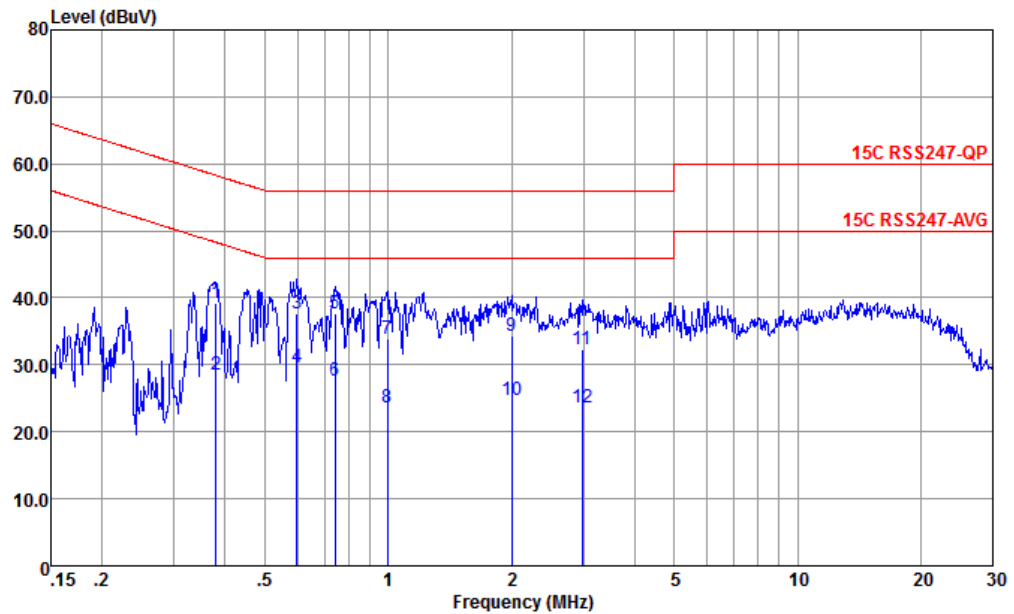
Site : CO01-KS

Condition : 15C RSS247-QP LISN-060105-L 2023 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.486	42.10	-14.13	56.23	31.90	-0.03	10.23	QP
2	0.486	28.70	-17.53	46.23	18.50	-0.03	10.23	Average
3	0.592	41.33	-14.67	56.00	31.20	-0.05	10.18	QP
4	0.592	31.73	-14.27	46.00	21.60	-0.05	10.18	Average
5	0.747	40.55	-15.45	56.00	30.50	-0.08	10.13	QP
6	0.747	28.95	-17.05	46.00	18.90	-0.08	10.13	Average
7	1.005	38.19	-17.81	56.00	28.20	-0.10	10.09	QP
8	1.005	25.79	-20.21	46.00	15.80	-0.10	10.09	Average
9	1.819	37.54	-18.46	56.00	27.59	-0.13	10.08	QP
10	1.819	26.84	-19.16	46.00	16.89	-0.13	10.08	Average
11	2.066	36.74	-19.26	56.00	26.80	-0.14	10.08	QP
12	2.066	26.14	-19.86	46.00	16.20	-0.14	10.08	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-N 2023 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.379	39.14	-19.16	58.30	28.90	-0.05	10.29	QP
2	0.379	28.54	-19.76	48.30	18.30	-0.05	10.29	Average
3	0.598	37.61	-18.39	56.00	27.50	-0.07	10.18	QP
4 *	0.598	29.71	-16.29	46.00	19.60	-0.07	10.18	Average
5	0.743	37.65	-18.35	56.00	27.59	-0.07	10.13	QP
6	0.743	27.55	-18.45	46.00	17.49	-0.07	10.13	Average
7	0.994	33.79	-22.21	56.00	23.80	-0.10	10.09	QP
8	0.994	23.59	-22.41	46.00	13.60	-0.10	10.09	Average
9	2.001	34.26	-21.74	56.00	24.30	-0.12	10.08	QP
10	2.001	24.76	-21.24	46.00	14.80	-0.12	10.08	Average
11	2.978	32.24	-23.76	56.00	22.30	-0.13	10.07	QP
12	2.978	23.54	-22.46	46.00	13.60	-0.13	10.07	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Kuang Jia	Relative Humidity :	50%
		Temperature :	20~22 °C

Radiated Spurious Emission Test Modes

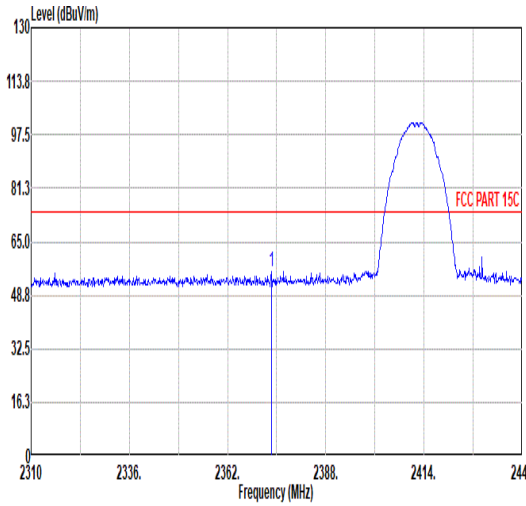
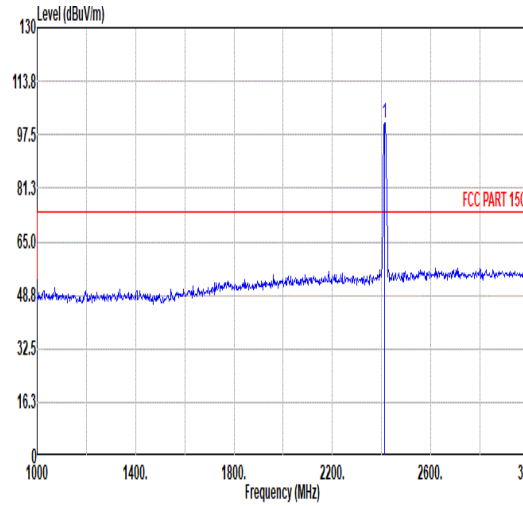
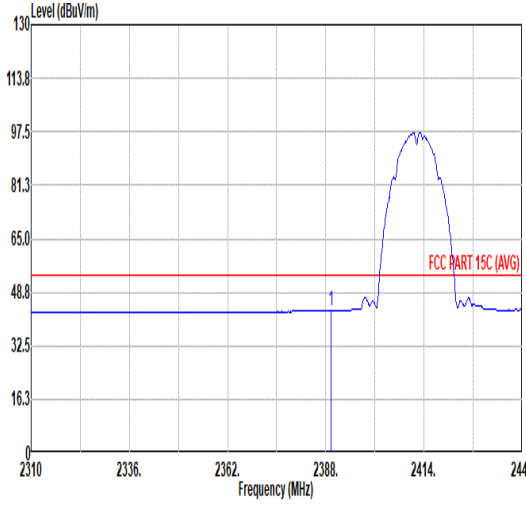
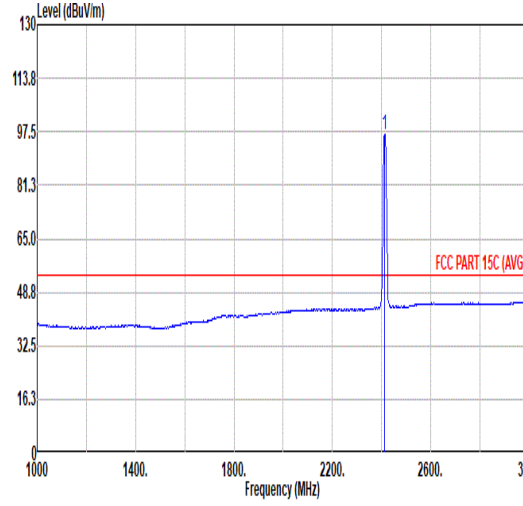
Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	2400-2483.5	6	802.11b	01	2412	1Mbps	-
Mode 2	2400-2483.5	6	802.11b	06	2437	1Mbps	-
Mode 3	2400-2483.5	6	802.11b	11	2462	1Mbps	-
Mode 4	2400-2483.5	6	802.11g	01	2412	6Mbps	-
Mode 5	2400-2483.5	6	802.11g	06	2437	6Mbps	-
Mode 6	2400-2483.5	6	802.11g	11	2462	6Mbps	-
Mode 7	2400-2483.5	6	802.11n HT20	01	2412	MCS0	-
Mode 8	2400-2483.5	6	802.11n HT20	06	2437	MCS0	-
Mode 9	2400-2483.5	6	802.11n HT20	11	2462	MCS0	-
Mode 10	2400-2483.5	6	802.11n HT40	03	2422	MCS0	-
Mode 11	2400-2483.5	6	802.11n HT40	06	2437	MCS0	-
Mode 12	2400-2483.5	6	802.11n HT40	09	2452	MCS0	-
Mode 13	2400-2483.5	6	802.11n HT40	09	2452	MCS0	-
	WWAN RSE	0	LTE B41 Link	-	-	-	-



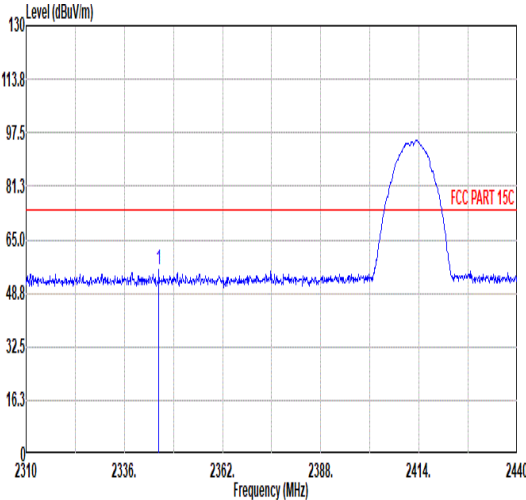
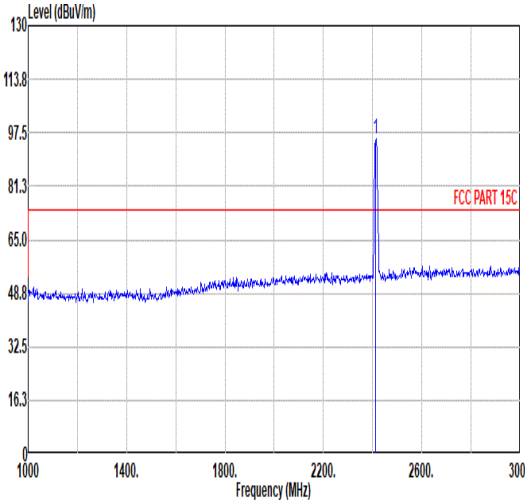
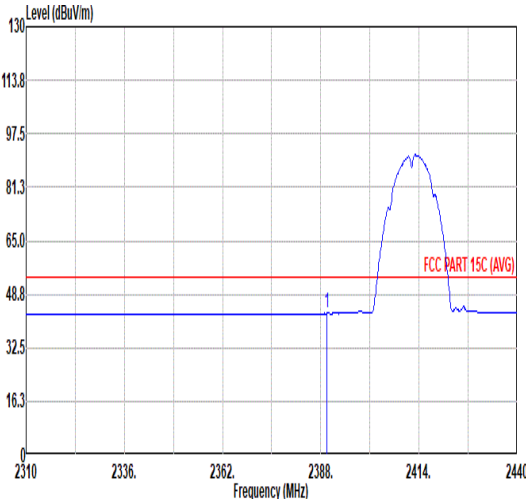
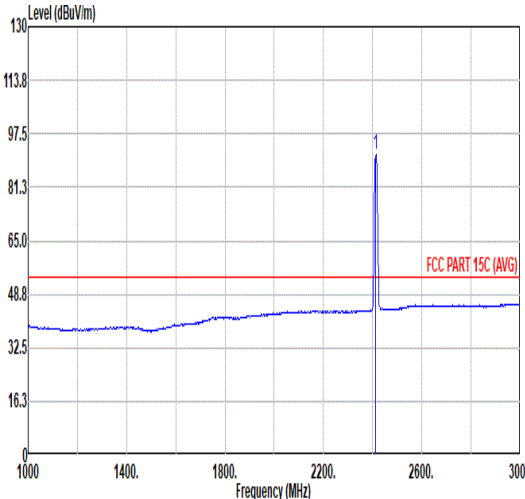
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11b	01	2389.30	43.06	54.00	-10.94	H	AVERAGE	Pass	Band Edge
	802.11b	01	4824.00	43.41	74.00	-30.59	V	PEAK	Pass	Harmonic
2	802.11b	06	-	-	-	-	-	-	-	Band Edge
	802.11b	06	7311.00	44.96	74.00	-29.04	H	PEAK	Pass	Harmonic
3	802.11b	11	2484.31	43.51	54.00	-10.49	H	AVERAGE	Pass	Band Edge
	802.11b	11	7386.00	43.60	74.00	-30.40	V	PEAK	Pass	Harmonic
4	802.11g	01	2389.95	43.25	54.00	-10.75	H	AVERAGE	Pass	Band Edge
	802.11g	01	4824.00	41.32	74.00	-32.68	H	PEAK	Pass	Harmonic
5	802.11g	06	-	-	-	-	-	-	-	Band Edge
	802.11g	06	7311.00	44.18	74.00	-29.82	V	PEAK	Pass	Harmonic
6	802.11g	11	2483.51	44.67	54.00	-9.33	H	AVERAGE	Pass	Band Edge
	802.11g	11	7386.00	44.47	74.00	-29.53	V	PEAK	Pass	Harmonic
7	802.11n HT20	01	2389.69	44.07	54.00	-9.93	H	AVERAGE	Pass	Band Edge
	802.11n HT20	01	4824.00	41.80	74.00	-32.20	V	PEAK	Pass	Harmonic
8	802.11n HT20	06	-	-	-	-	-	-	-	Band Edge
	802.11n HT20	06	7311.00	44.49	74.00	-29.51	H	PEAK	Pass	Harmonic
9	802.11n HT20	11	2483.74	44.34	54.00	-9.66	H	AVERAGE	Pass	Band Edge
	802.11n HT20	11	7386.00	44.14	74.00	-29.86	H	PEAK	Pass	Harmonic
10	802.11n HT40	03	2389.41	47.97	54.00	-6.03	H	AVERAGE	Pass	Band Edge
	802.11n HT40	03	7266.00	43.49	74.00	-30.51	V	PEAK	Pass	Harmonic
11	802.11n HT40	06	2486.52	44.56	54.00	-9.44	H	AVERAGE	Pass	Band Edge
	802.11n HT40	06	7311.00	43.86	74.00	-30.14	V	PEAK	Pass	Harmonic
12	802.11n HT40	09	2484.45	48.13	54.00	-5.87	H	AVERAGE	Pass	Band Edge
	802.11n HT40	09	7356.00	43.61	74.00	-30.39	V	PEAK	Pass	Harmonic
13	802.11n HT40	09	2484.54	45.47	54.00	-8.53	V	AVERAGE	Pass	Band Edge
	802.11n HT40	09	7356.00	46.08	74.00	-27.92	H	Peak	Pass	Harmonic

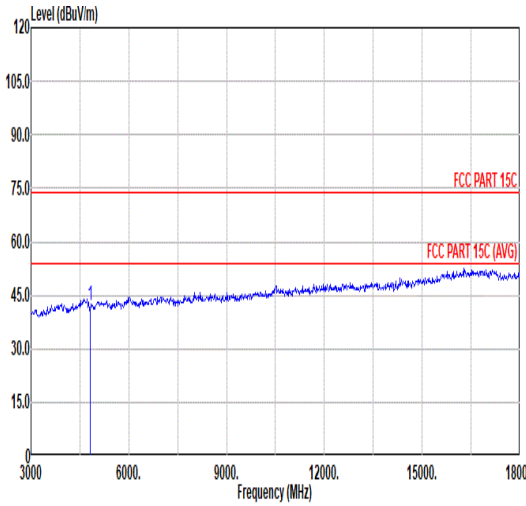
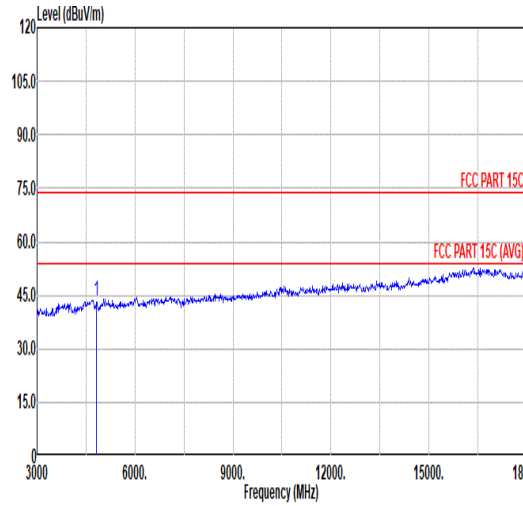


Mode	1																																																																	
	Band Edge																																																																	
	2400-2483.5_802.11b_CH01_2412MHz																																																																	
ANT	6																																																																	
Pol.	Horizontal																																																																	
Peak																																																																		
	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2373.57</td><td>56.13</td><td>74.00</td><td>-17.87</td><td>43.99</td><td>31.75</td><td>6.58</td><td>32.19</td><td>6.00</td><td>100</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>240 PEAK</td></tr></table>												Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2373.57	56.13	74.00	-17.87	43.99	31.75	6.58	32.19	6.00	100											240 PEAK
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