FCC RF Test Report

APPLICANT	:	Hangzhou Tuya Information Technology Co., Ltd
EQUIPMENT	:	Wi-Fi and Bluetooth Module
MODEL NAME	:	WR11-2S
FCC ID	:	2ANDL-WR112S
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DTS) Digital Transmission System
TEST DATE(S)	:	May 20, 2025 ~ May 27, 2025

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

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

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.02

Sporton International Inc. (Kunshan)
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
FR542204B	Rev. 01	Initial issue of report	Jun. 20, 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 0.22 dB at 2389.56 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 11.65 dB at 0.529 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

Hangzhou Tuya Information Technology Co., Ltd
Room 301,Building 1,Huace Center,Xihu District,Hangzhou City,Zhejiang Province, China

1.2 Manufacturer

Hangzhou Tuya Information Technology Co., Ltd
Room 301,Building 1,Huace Center,Xihu District,Hangzhou City,Zhejiang Province, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wi-Fi and Bluetooth Module
Model Name	WR11-2S
FCC ID	2ANDL-WR112S
HW Version	V1.0.1
SW Version	V3.5.0
EUT Stage	Production Unit

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 : 19.51 dBm (0.0893 W) 802.11g : 26.51 dBm (0.4477 W) 802.11n HT20 : 26.28 dBm (0.4246 W) 802.11n HT40 : 26.09 dBm (0.4064 W)
99% Occupied Bandwidth	802.11b : 13.906MHz 802.11g : 18.022MHz 802.11n HT20 : 19.141MHz 802.11n HT40 : 36.204MHz
Antenna Type / Gain	Onboard PCB Antenna with gain 0.95 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 TH01-KS 03CH05-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH05-KS	AUDIX	E3	210616
3.	CO01-KS	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: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

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

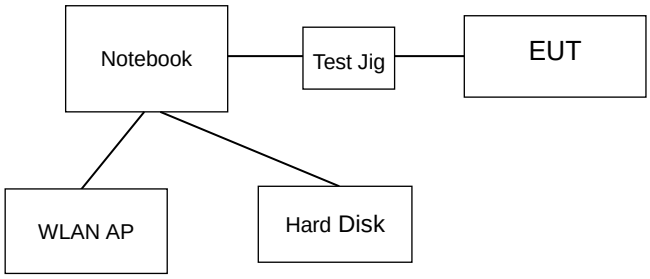
Final test modes are considering the modulation and worse data rates as below table.

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 : WLAN Link(2.4G) + Charging from Notebook
Remark: For Radiated Test Cases, The tests were performance with Notebook.	

2.3 Connection Diagram of Test System

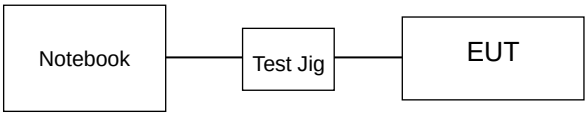
AC Conducted Emission:



This example is connection diagram of EUT test configurations.

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

Radiated Emission:



This example is connection diagram of EUT test configurations.

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

2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded, 1.8 m
2.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	Shielded cable DC O/P 1.8m, Unshielded AC I/P cable 1.8m
3.	Hard Disk	Lenovo	F310	DoC	Shielded, 1.2m	N/A
4.	Test Jig	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

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

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example:

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 1.61 dB and 20dB attenuator.

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

= 1.61 + 20 = 21.61 (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.

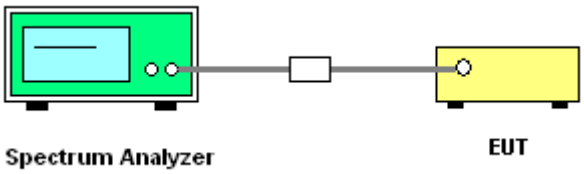
3.1.2 Measuring Instruments

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.

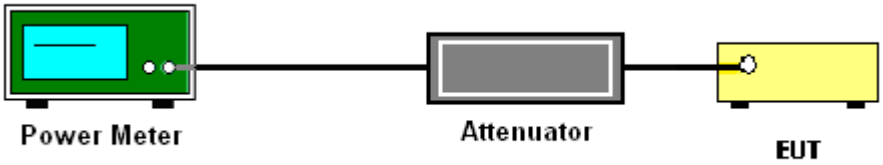
3.2.2 Measuring Instruments

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.

3.2.4 Test Setup



3.2.5 Test Result of 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
					Ant1	Ant1	Ant1	Ant1	Ant1	
11b	1Mbps	1	1	2412	19.51	30.00	0.95	20.46	36.00	Pass
11b	1Mbps	1	6	2437	18.55	30.00	0.95	19.50	36.00	Pass
11b	1Mbps	1	11	2462	17.81	30.00	0.95	18.76	36.00	Pass
11g	6Mbps	1	1	2412	25.76	30.00	0.95	26.71	36.00	Pass
11g	6Mbps	1	6	2437	26.21	30.00	0.95	27.16	36.00	Pass
11g	6Mbps	1	11	2462	26.51	30.00	0.95	27.46	36.00	Pass
HT20	MCS0	1	1	2412	26.28	30.00	0.95	27.23	36.00	Pass
HT20	MCS0	1	6	2437	26.05	30.00	0.95	27.00	36.00	Pass
HT20	MCS0	1	11	2462	25.91	30.00	0.95	26.86	36.00	Pass
HT40	MCS0	1	3	2422	24.54	30.00	0.95	25.49	36.00	Pass
HT40	MCS0	1	6	2437	25.64	30.00	0.95	26.59	36.00	Pass
HT40	MCS0	1	9	2452	26.09	30.00	0.95	27.04	36.00	Pass

3.2.6 Test Result of Average Output Power (Reporting Only)

2.4GHz Band Single Antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant1	Ant1	Ant1	Ant1	Ant1	
11b	1Mbps	1	1	2412	0.00	17.36	30.00	0.95	18.31	36.00	Pass
11b	1Mbps	1	6	2437	0.00	16.21	30.00	0.95	17.16	36.00	Pass
11b	1Mbps	1	11	2462	0.00	15.51	30.00	0.95	16.46	36.00	Pass
11g	6Mbps	1	1	2412	0.00	16.51	30.00	0.95	17.46	36.00	Pass
11g	6Mbps	1	6	2437	0.00	18.63	30.00	0.95	19.58	36.00	Pass
11g	6Mbps	1	11	2462	0.00	18.81	30.00	0.95	19.76	36.00	Pass
HT20	MCS0	1	1	2412	0.00	16.72	30.00	0.95	17.67	36.00	Pass
HT20	MCS0	1	6	2437	0.00	18.64	30.00	0.95	19.59	36.00	Pass
HT20	MCS0	1	11	2462	0.00	18.74	30.00	0.95	19.69	36.00	Pass
HT40	MCS0	1	3	2422	0.00	15.18	30.00	0.95	16.13	36.00	Pass
HT40	MCS0	1	6	2437	0.00	17.01	30.00	0.95	17.96	36.00	Pass
HT40	MCS0	1	9	2452	0.00	18.81	30.00	0.95	19.76	36.00	Pass

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.

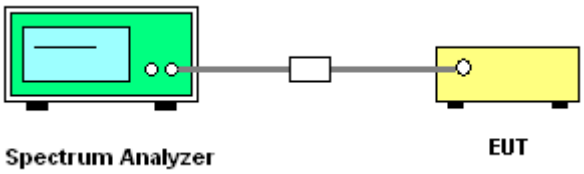
3.3.2 Measuring Instruments

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

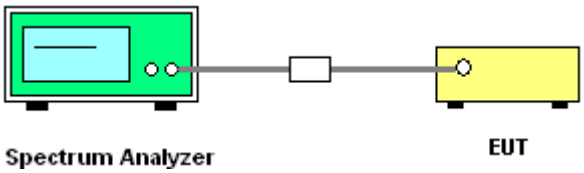
3.4.2 Measuring Instruments

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

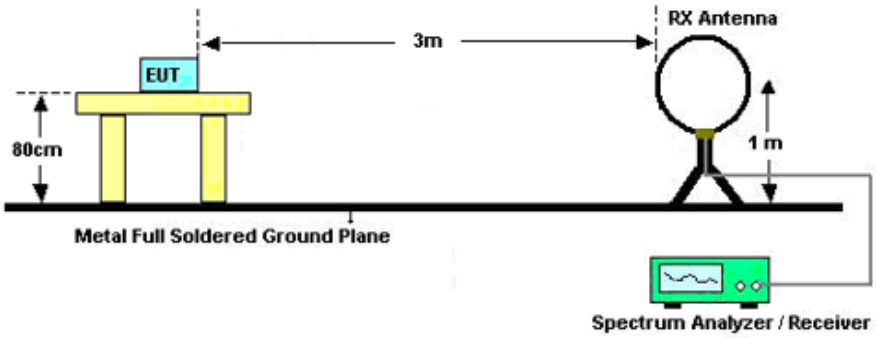
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

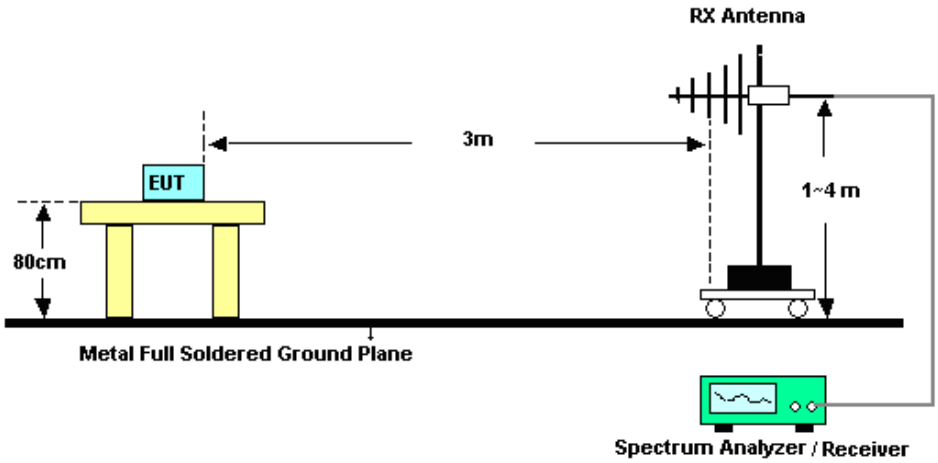
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better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

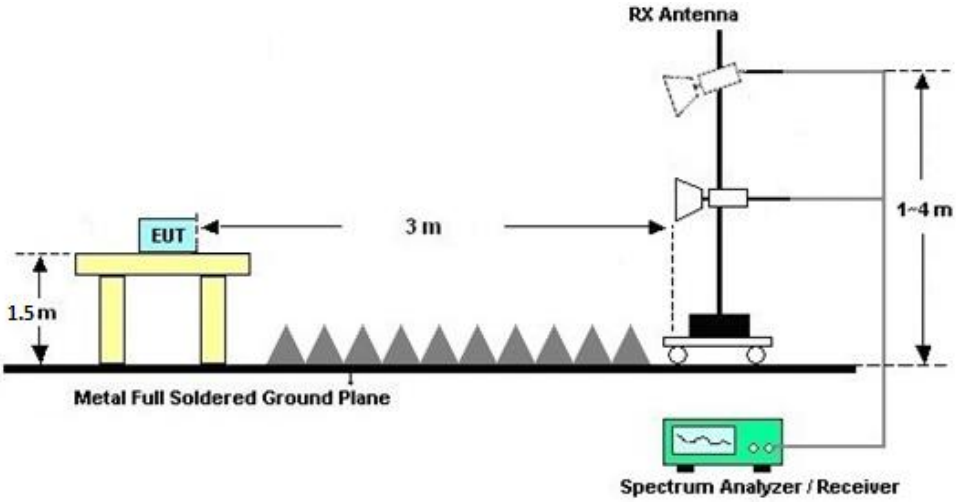
For radiated emissions below 30MHz



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.

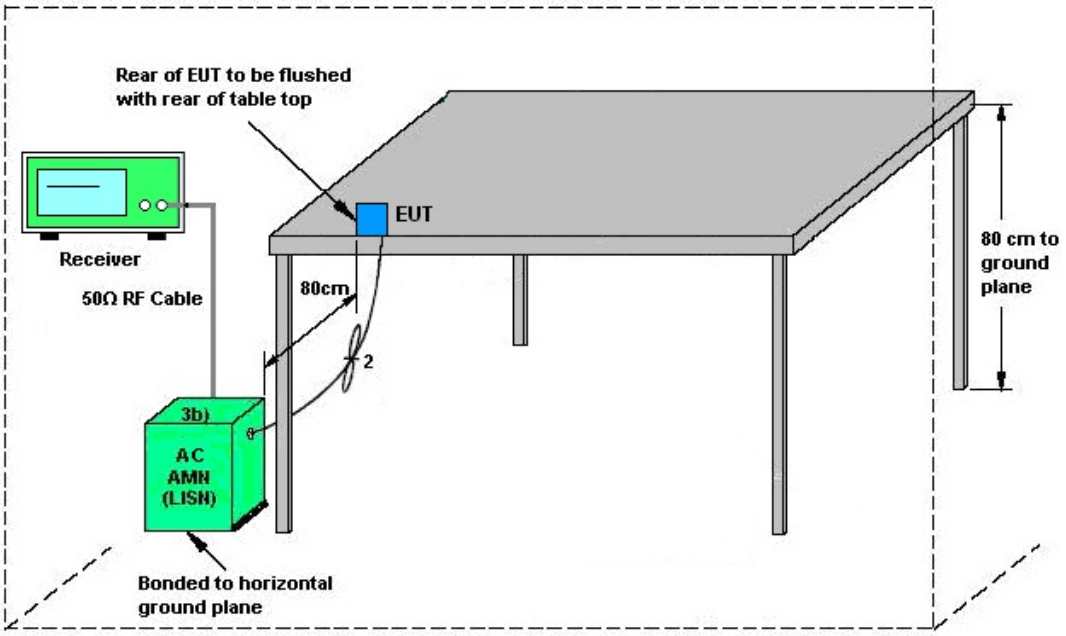
3.6.2 Measuring Instruments

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



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

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. 10, 2024	May 20, 2025~ May 21, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025	May 20, 2025~ May 21, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025	May 20, 2025~ May 21, 2025	Jan. 01, 2026	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;Max 30dBm	Jul. 04, 2024	May 27, 2025	Jul. 03, 2025	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz-44G,MAX 30dB	Oct. 10, 2024	May 27, 2025	Oct. 09, 2025	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	May 27, 2025	Sep. 07, 2025	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	Mar. 24, 2025	May 27, 2025	Mar. 23, 2026	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251982	1GHz~18GHz	Aug. 16, 2024	May 27, 2025	Aug. 15, 2025	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	May 27, 2025	Oct. 21, 2025	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 03, 2024	May 27, 2025	Jul. 02, 2025	Radiation (03CH05-KS)
Amplifier	EM	EM18G40GA	060851	18~40GHz	Jan. 02, 2025	May 27, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
high gain Amplifier	EM	EM01G18GA	060843	1Ghz-18Ghz	Jan. 02, 2025	May 27, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
Amplifier	EM	EM01G18GA	060833	1Ghz-18Ghz	Jan. 02, 2025	May 27, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	May 27, 2025	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	May 27, 2025	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	May 27, 2025	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2025	May 21, 2025	Apr. 17, 2026	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	May 21, 2025	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2025	May 21, 2025	Apr. 17, 2026	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	May 21, 2025	Oct. 08, 2025	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	**±2.22 dB**
Occupied Channel Bandwidth	**±0.1%**
Conducted Power	**±0.50 dB**
Conducted Power Spectral Density	**±0.90 dB**
Frequency	**±0.04ppm**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.84 dB**

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.30 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.02 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.22 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.34 dB**

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

Appendix A. Conducted Test Results

Ambient Condition: 25 ℃, 45 %RH	
Test Date: 2025.5.20~2025.5.21	**Test Engineer:** Zhu Chong

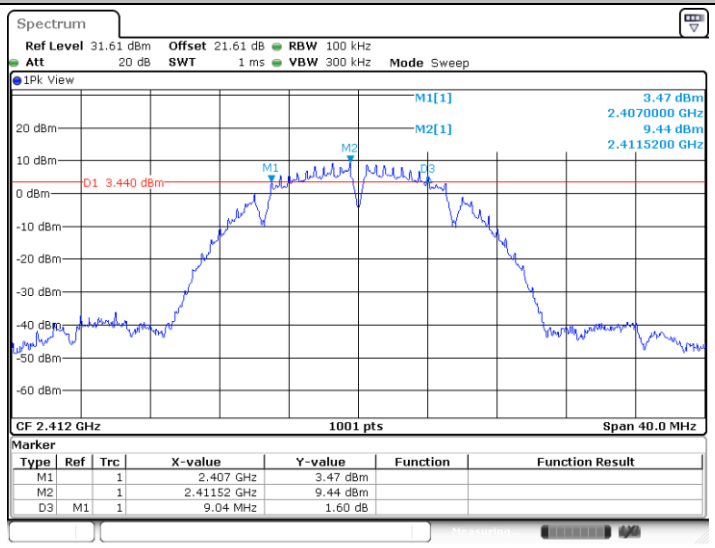
DTS Bandwidth

Test Result

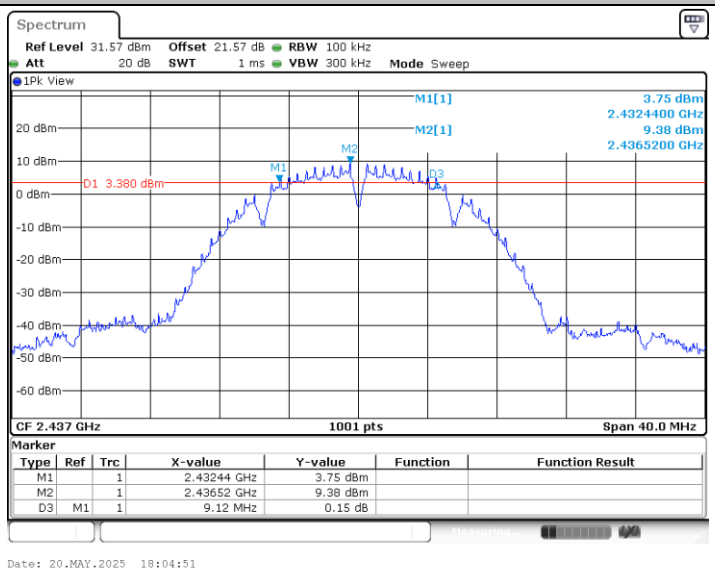
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.04	2407.00	2416.04	0.5	PASS
		2437	9.12	2432.44	2441.56	0.5	PASS
		2462	9.12	2457.44	2466.56	0.5	PASS
11G	Ant1	2412	16.56	2403.72	2420.28	0.5	PASS
		2437	16.56	2428.72	2445.28	0.5	PASS
		2462	16.56	2453.72	2470.28	0.5	PASS
11N20SISO	Ant1	2412	17.76	2403.12	2420.88	0.5	PASS
		2437	17.76	2428.12	2445.88	0.5	PASS
		2462	17.84	2453.08	2470.92	0.5	PASS
11N40SISO	Ant1	2422	36.32	2403.84	2440.16	0.5	PASS
		2437	36.40	2418.84	2455.24	0.5	PASS
		2452	36.32	2433.84	2470.16	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



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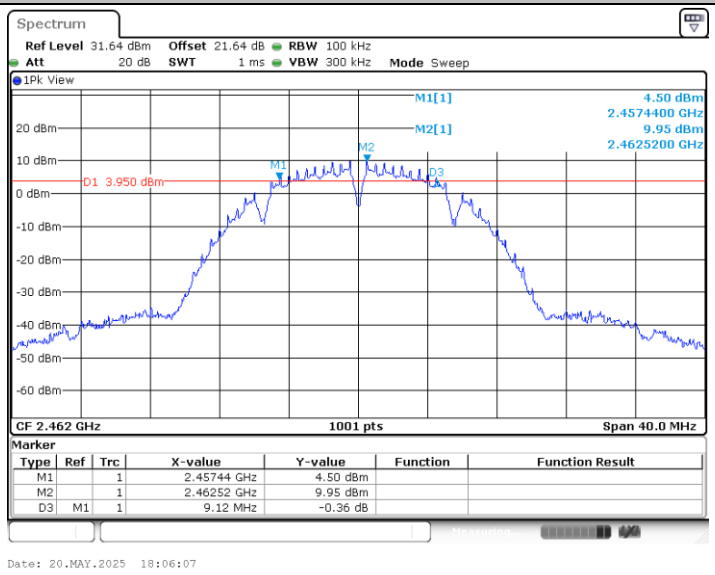

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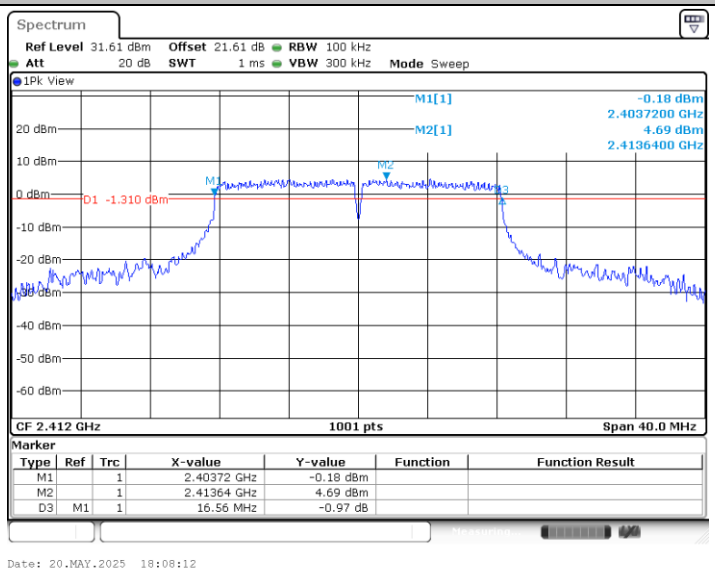

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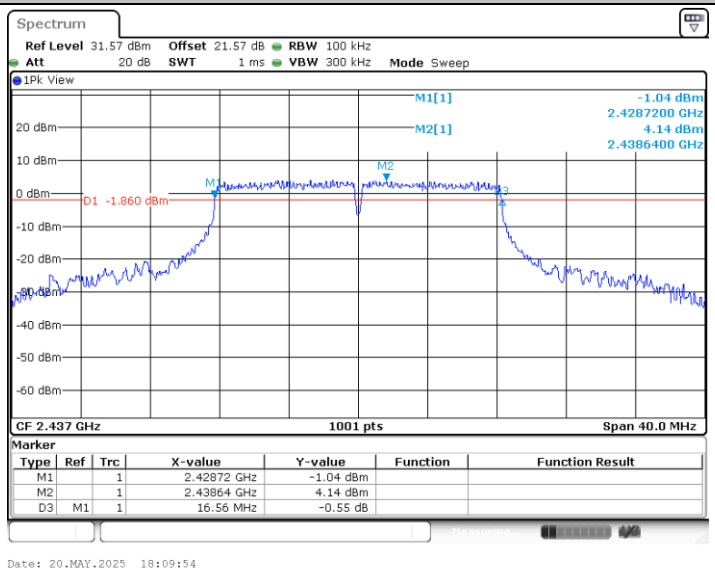

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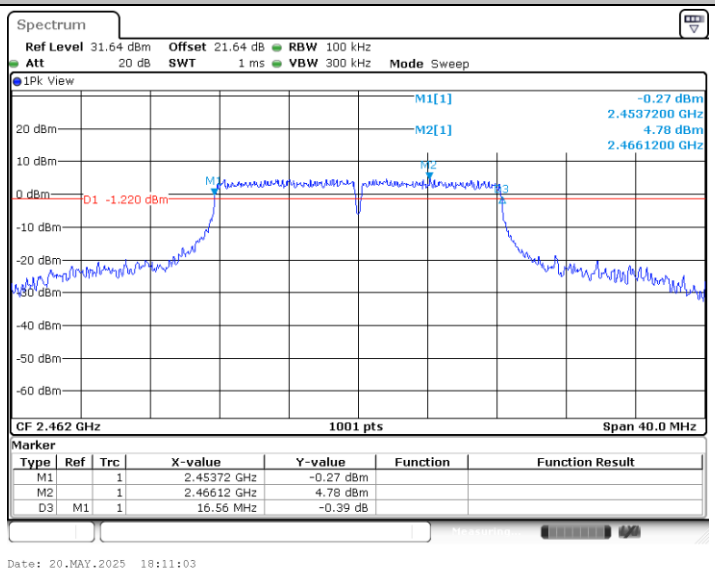

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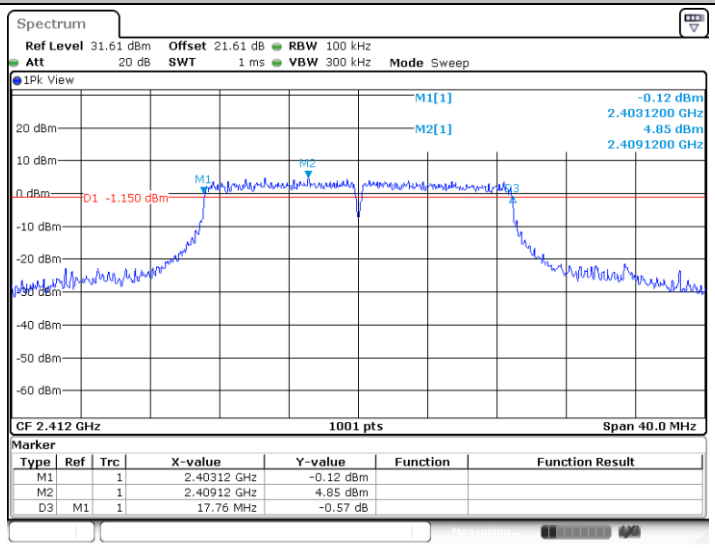

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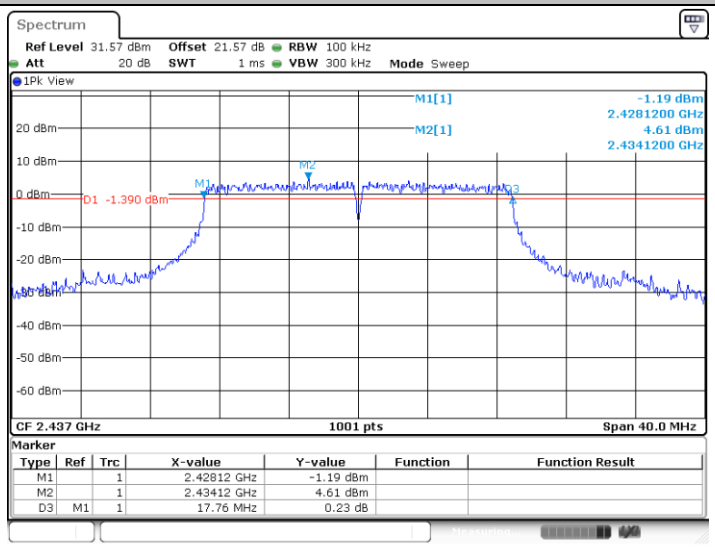

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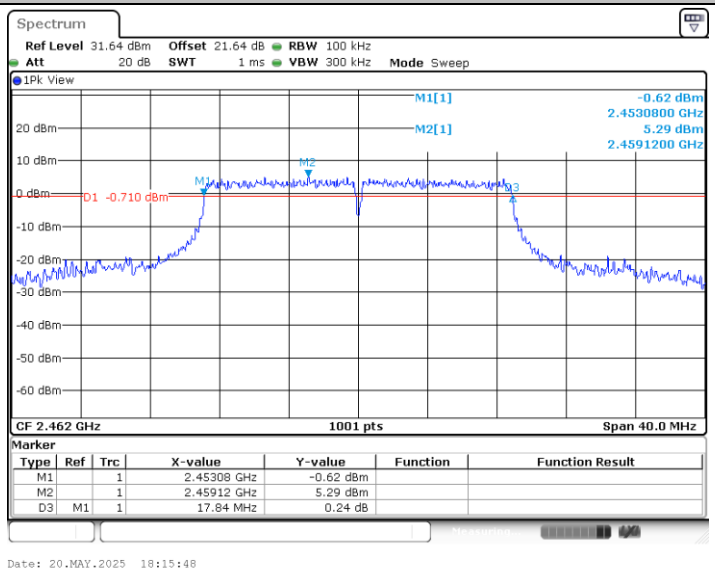

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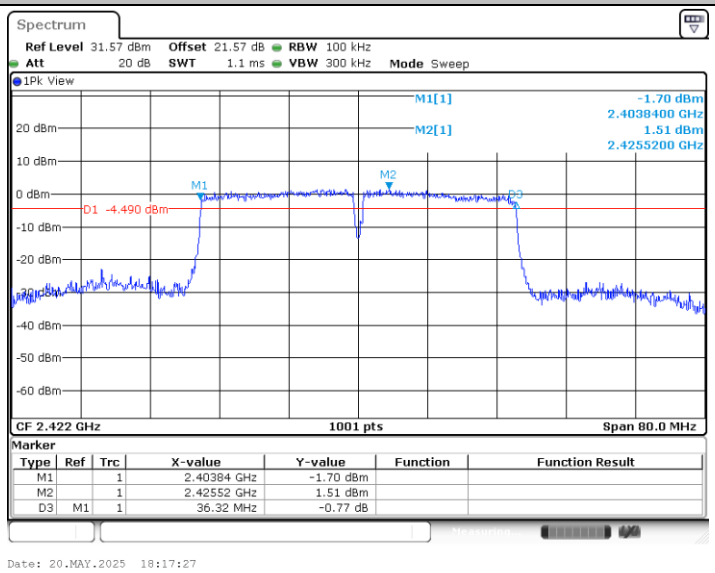

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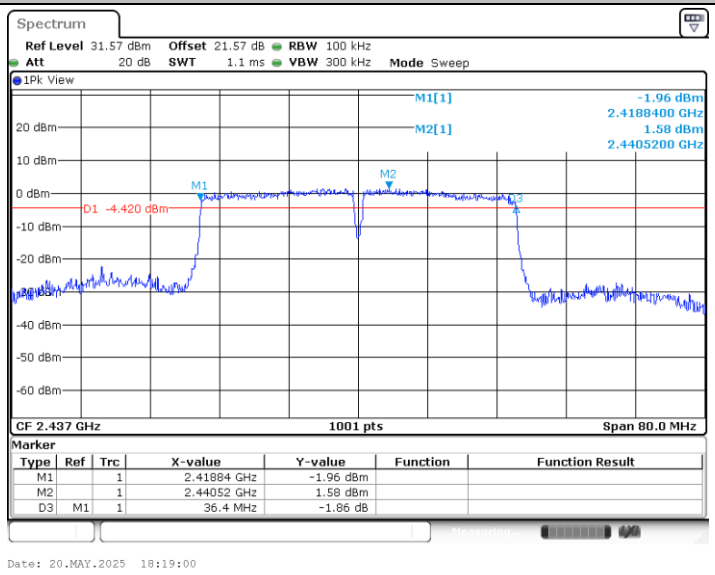

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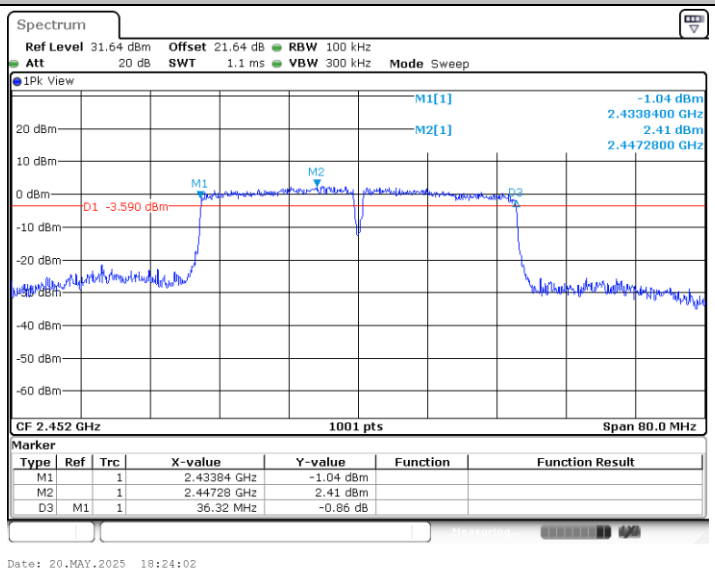


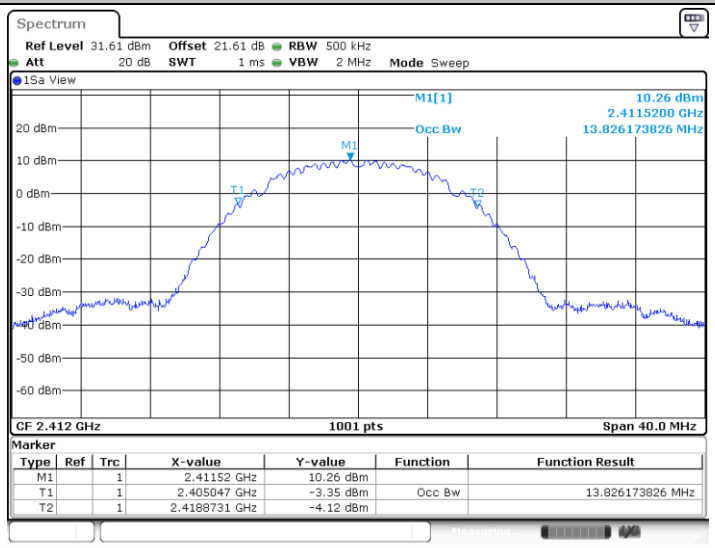
Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.826	2405.0470	2418.8731	---	---
		2437	13.906	2430.0470	2443.9530	---	---
		2462	13.786	2455.0869	2468.8731	---	---
11G	Ant1	2412	17.902	2402.8492	2420.7512	---	---
		2437	17.862	2427.8492	2445.7113	---	---
		2462	18.022	2452.7293	2470.7512	---	---
11N20SISO	Ant1	2412	18.941	2402.4895	2421.4306	---	---
		2437	18.821	2427.5694	2446.3906	---	---
		2462	19.141	2452.3696	2471.5105	---	---
11N40SISO	Ant1	2422	36.204	2403.8581	2440.0619	---	---
		2437	36.204	2418.8581	2455.0619	---	---
		2452	36.204	2433.8581	2470.0619	---	---

Test Graphs

11B_Ant1_2412



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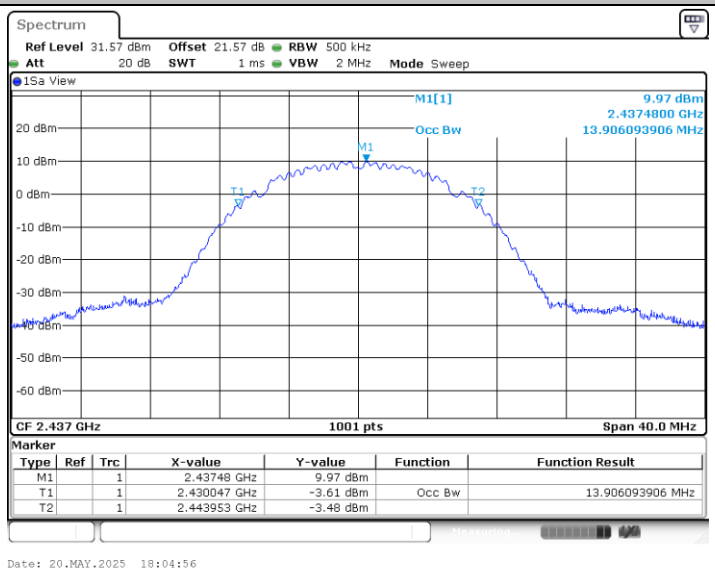

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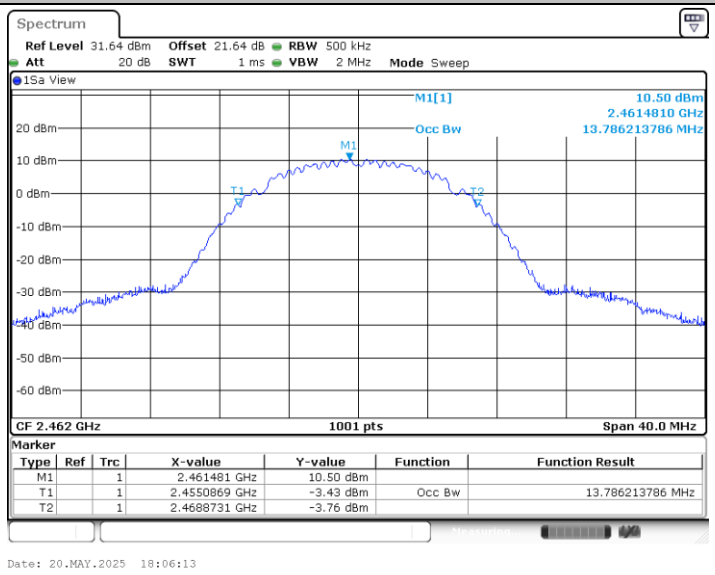

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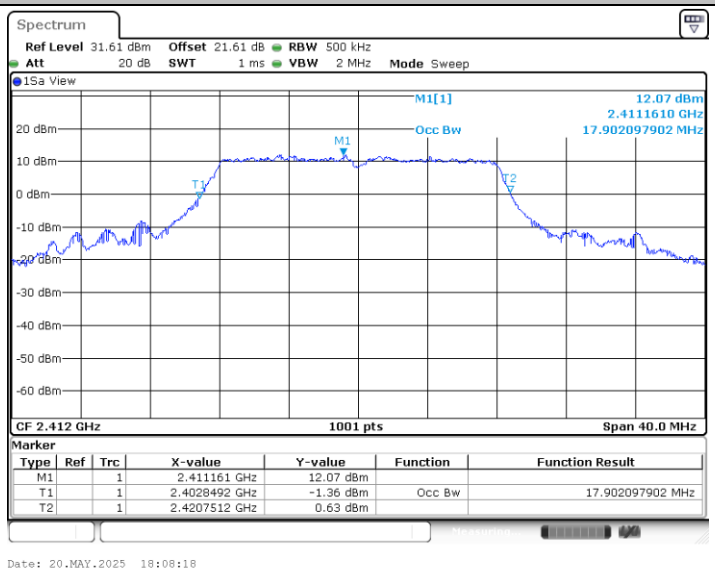

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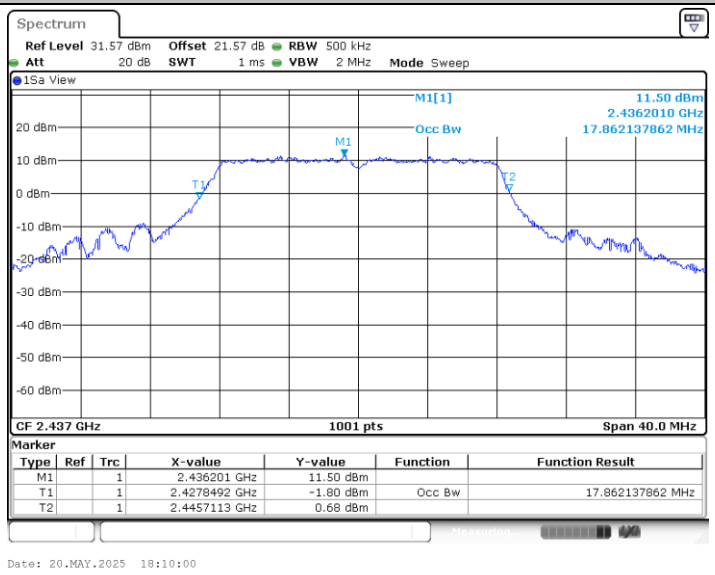

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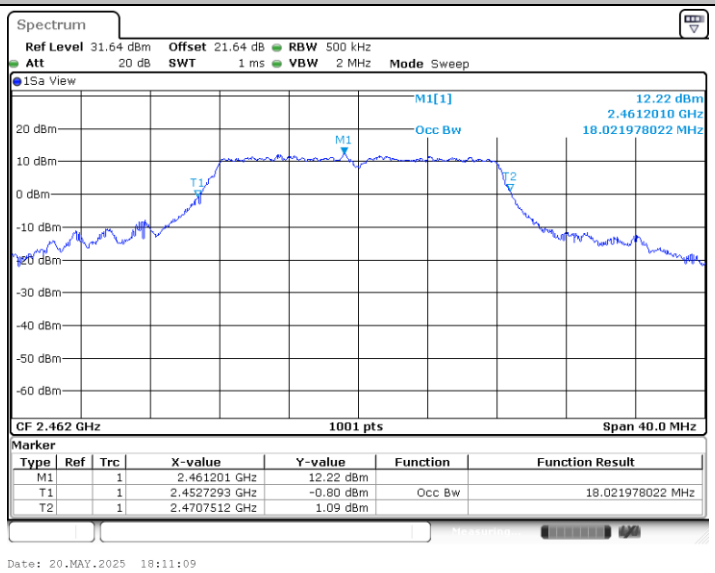

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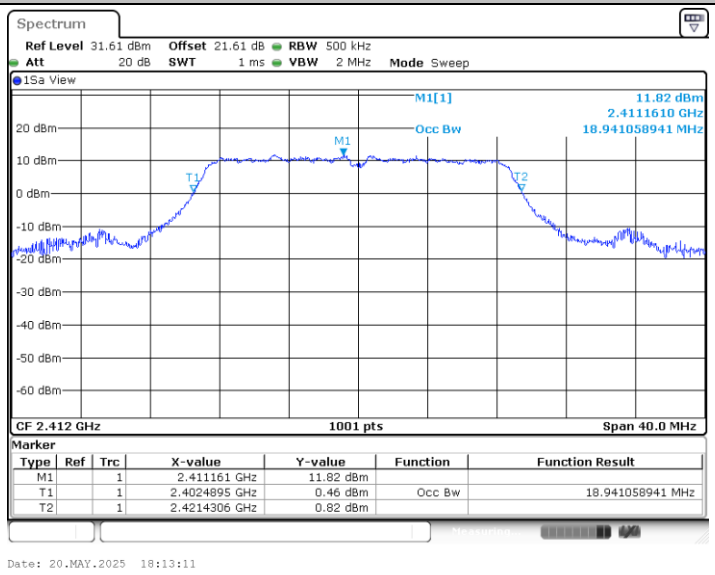

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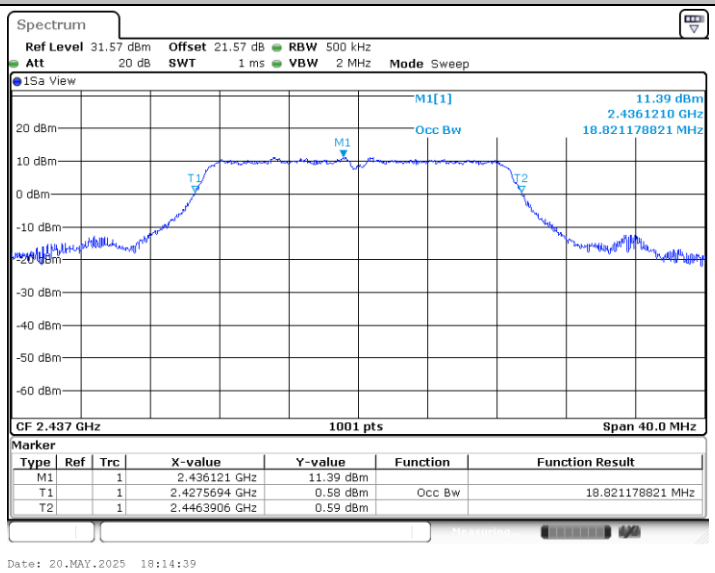

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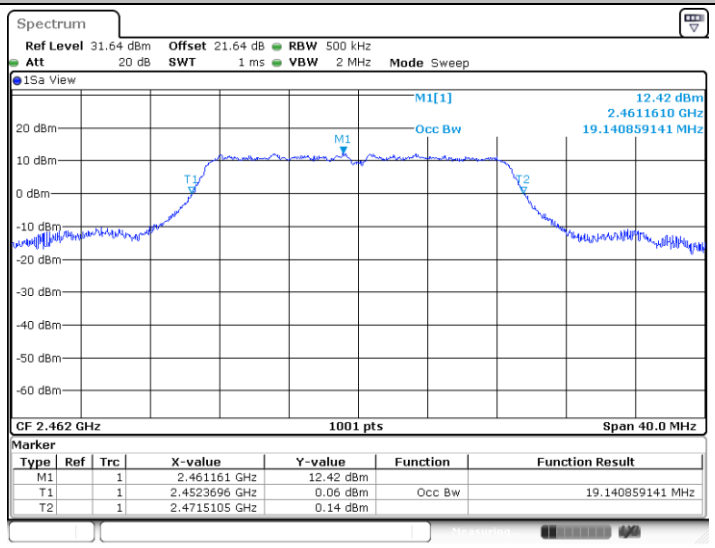
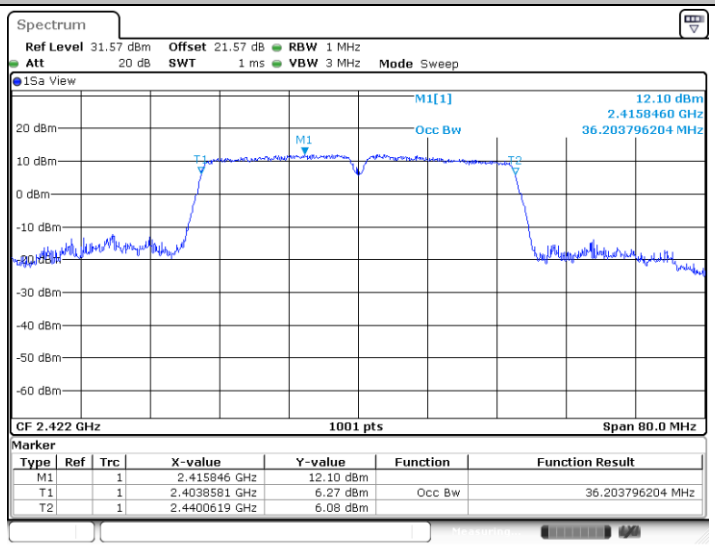


11N40SISO_Ant1_2422



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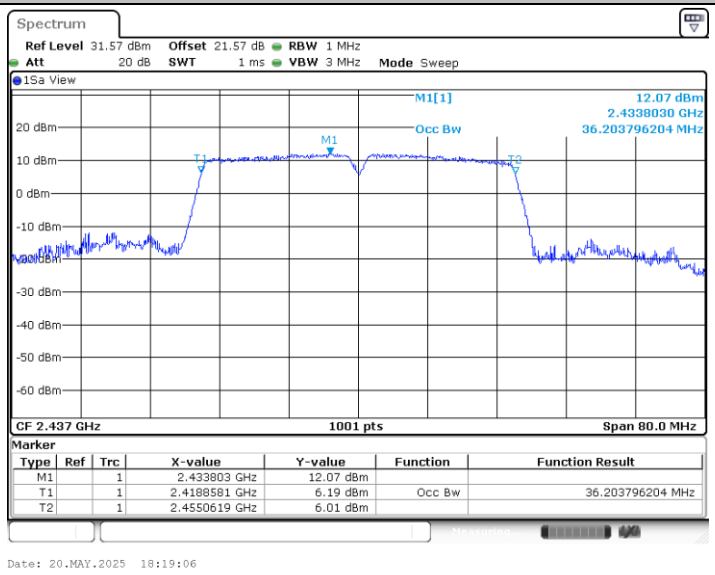

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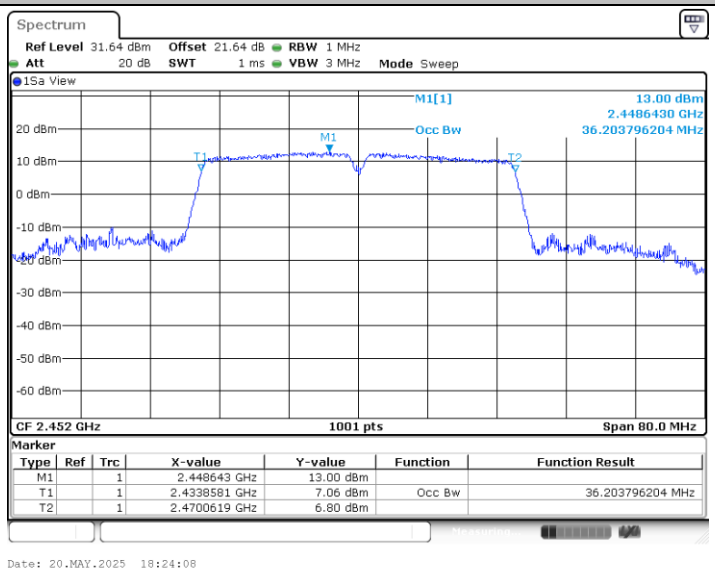


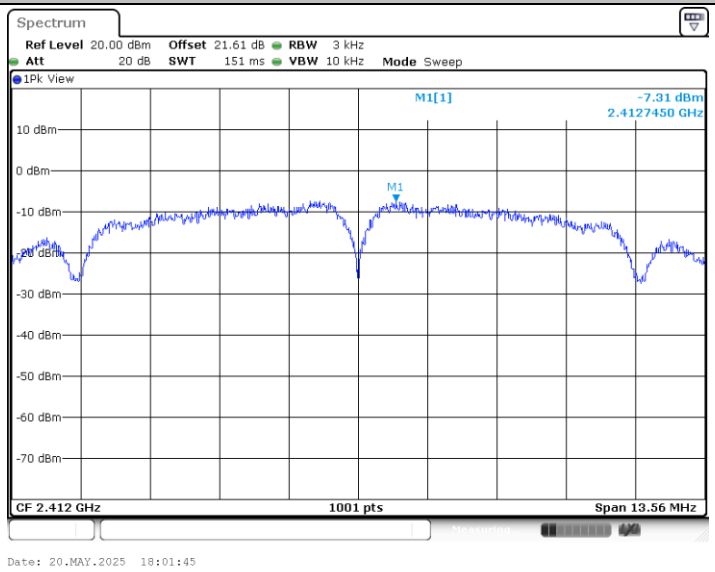
Maximum power spectral density

Test Result

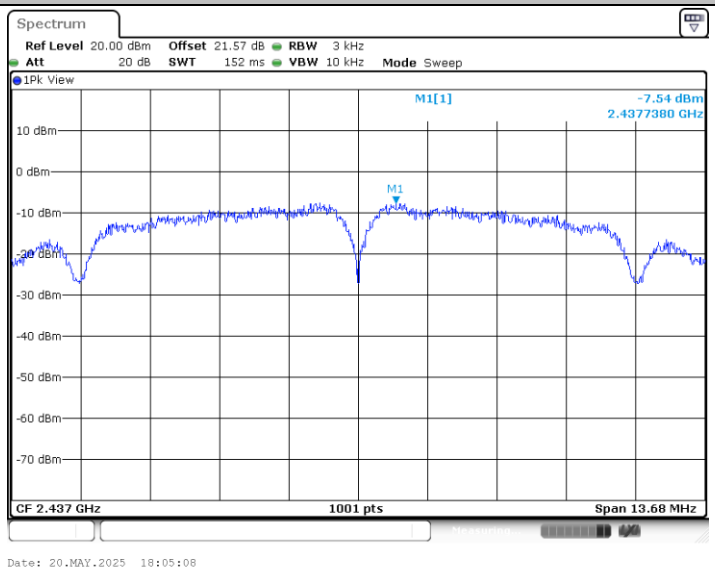
TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-7.31	≤8.00	PASS
		2437	-7.54	≤8.00	PASS
		2462	-7.04	≤8.00	PASS
11G	Ant1	2412	-9.89	≤8.00	PASS
		2437	-9.91	≤8.00	PASS
		2462	-9.74	≤8.00	PASS
11N20SISO	Ant1	2412	-9.34	≤8.00	PASS
		2437	-9.51	≤8.00	PASS
		2462	-8.98	≤8.00	PASS
11N40SISO	Ant1	2422	-10.34	≤8.00	PASS
		2437	-10.76	≤8.00	PASS
		2452	-10.86	≤8.00	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



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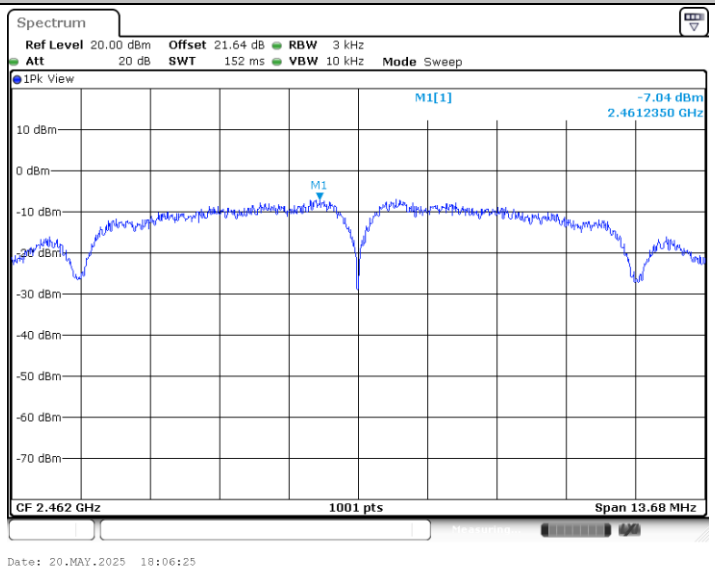

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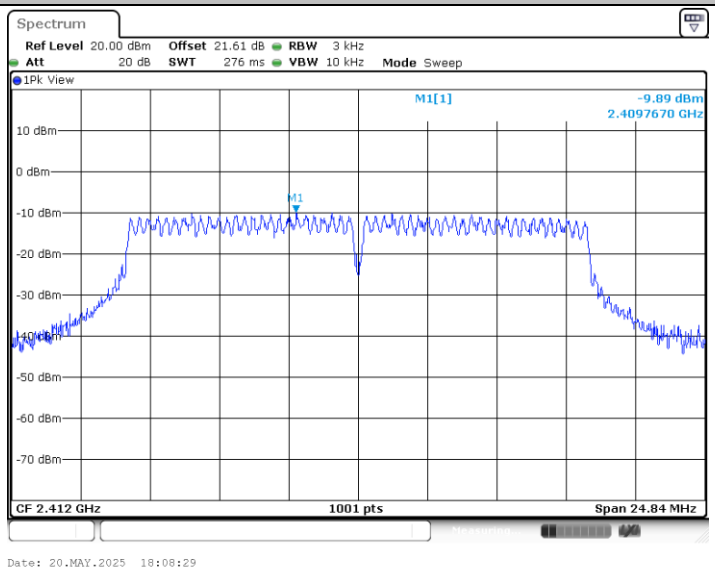

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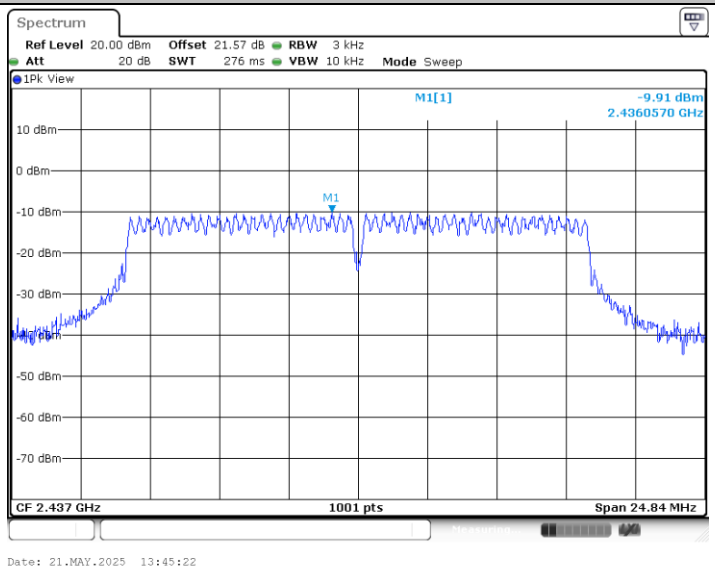

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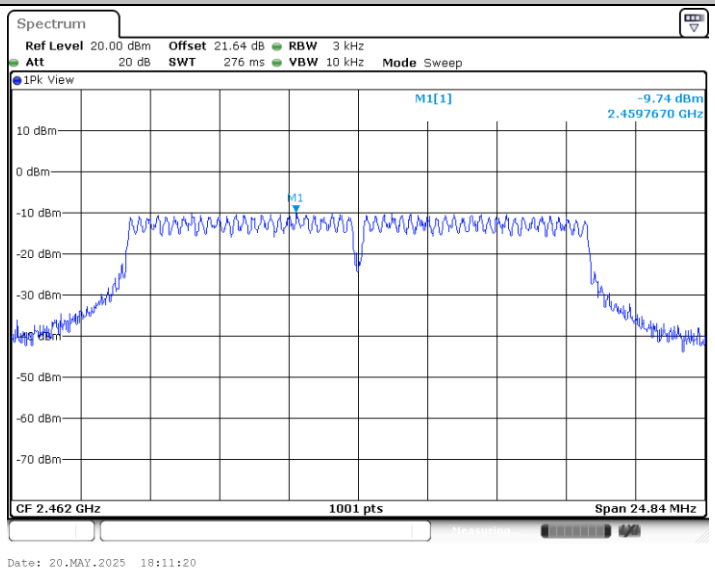

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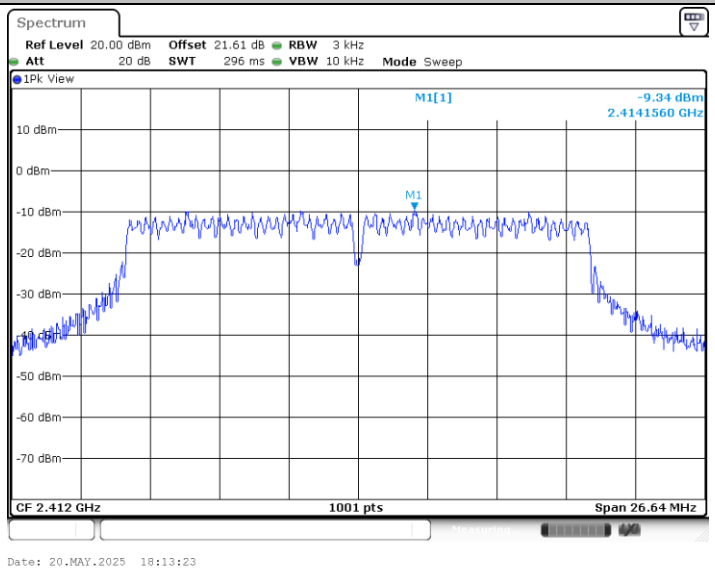

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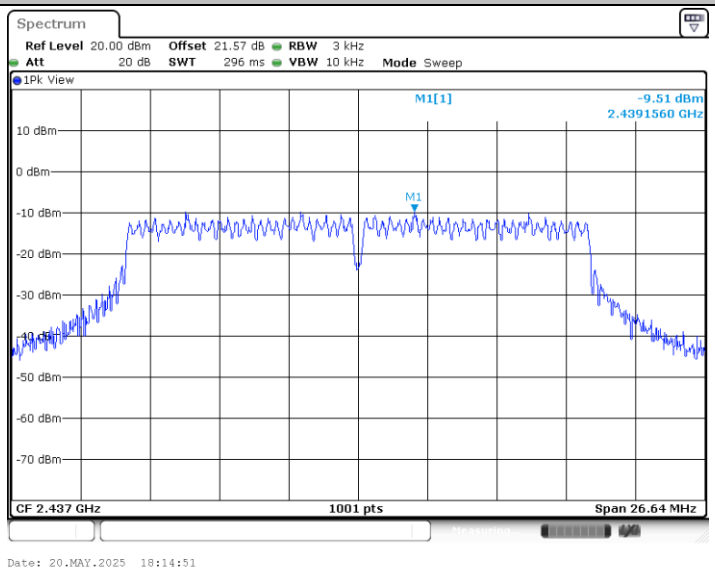

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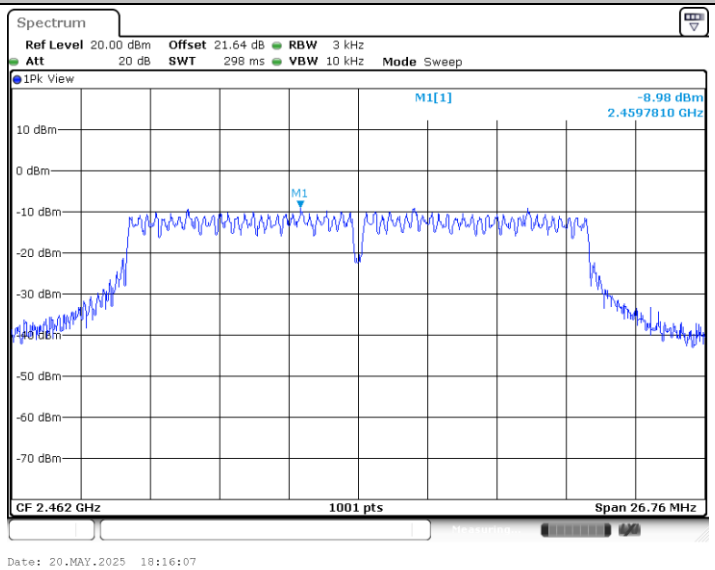

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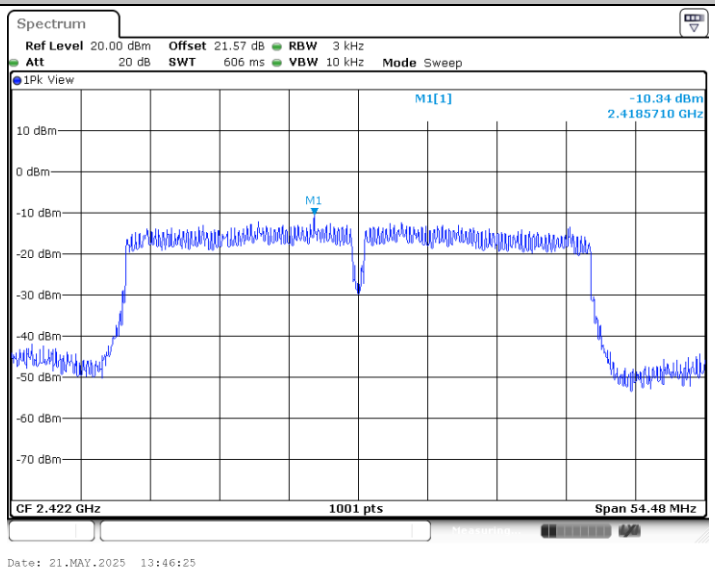
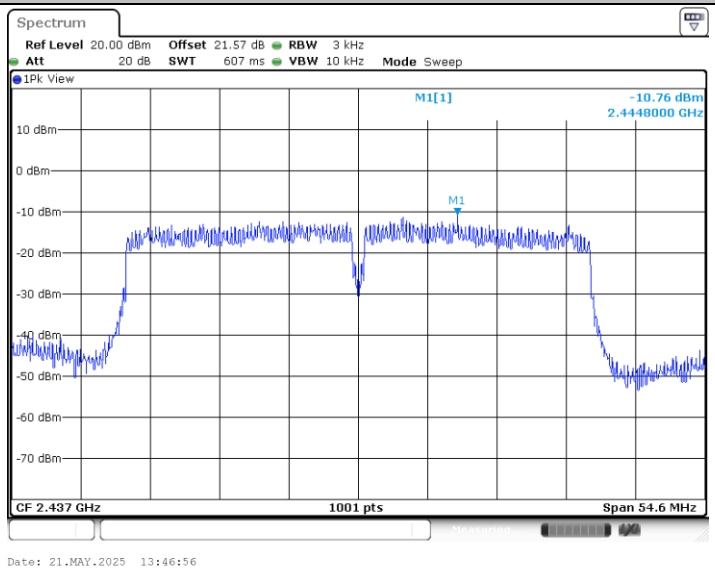
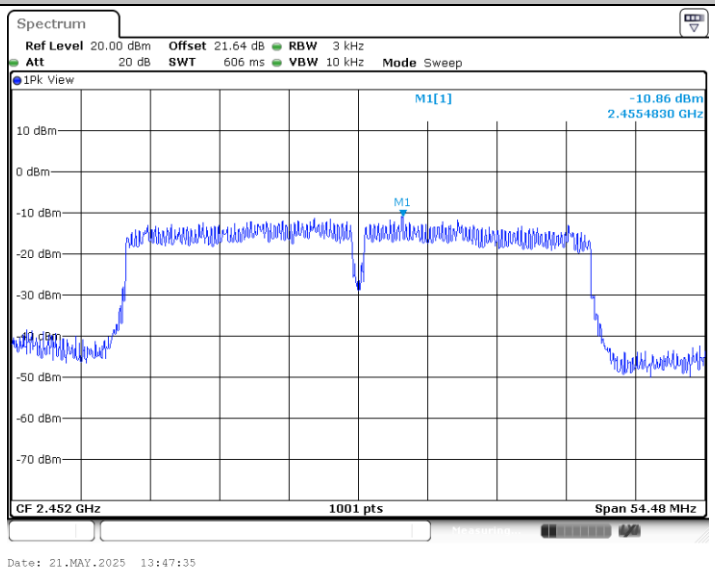


11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



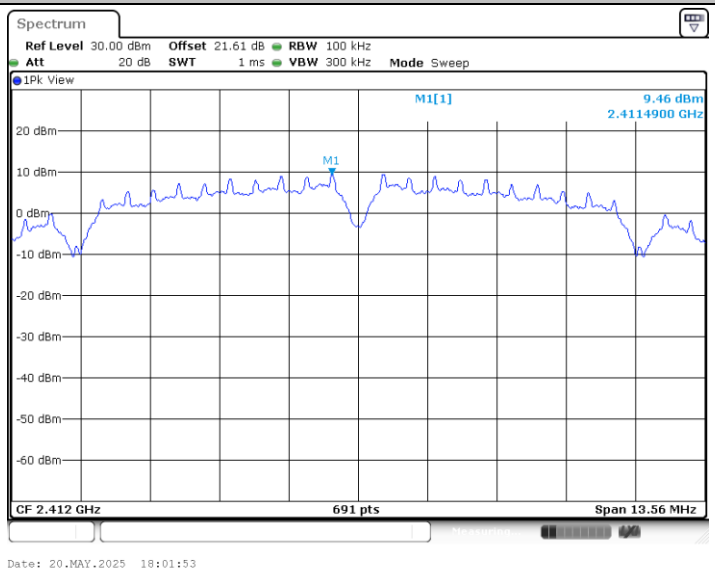
Reference level measurement

Test Result

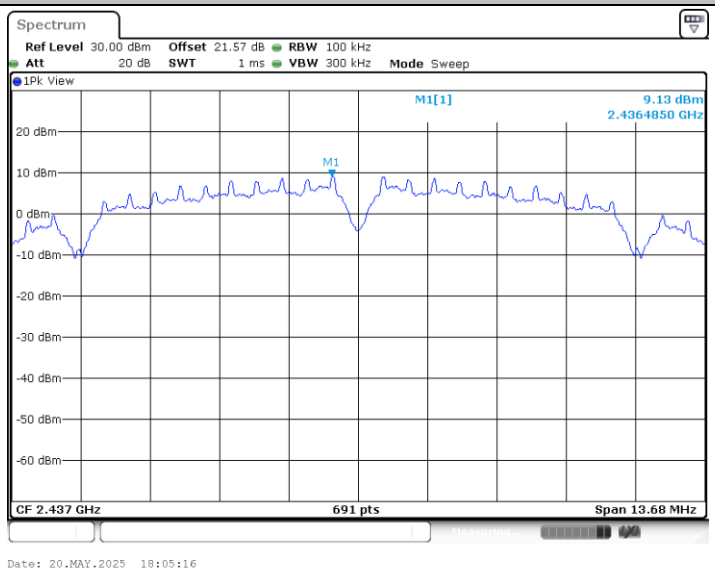
TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm/100KHz]
11B	Ant1	2412	2411.49	9.46
		2437	2436.49	9.13
		2462	2462.50	9.62
11G	Ant1	2412	2416.13	4.33
		2437	2438.62	3.93
		2462	2466.13	4.54
11N20SISO	Ant1	2412	2409.15	4.74
		2437	2434.15	4.28
		2462	2459.13	5.00
11N40SISO	Ant1	2422	2425.55	1.13
		2437	2440.48	1.31
		2452	2447.27	1.94

Test Graphs

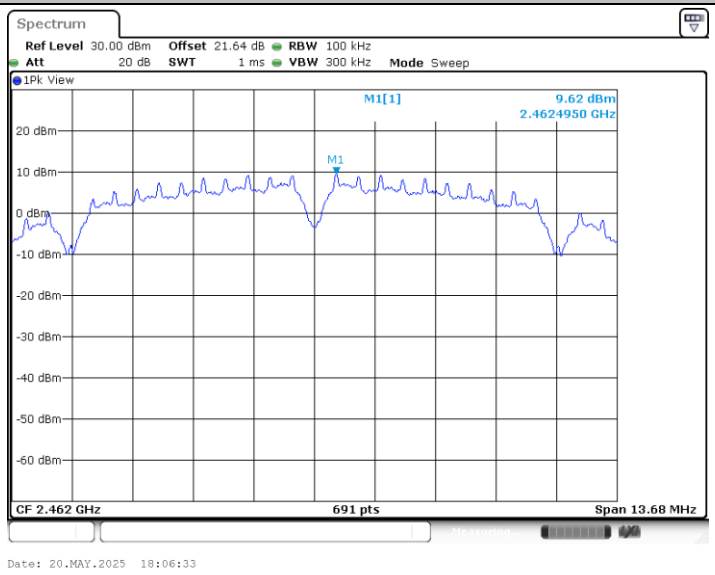
11B_Ant1_2412



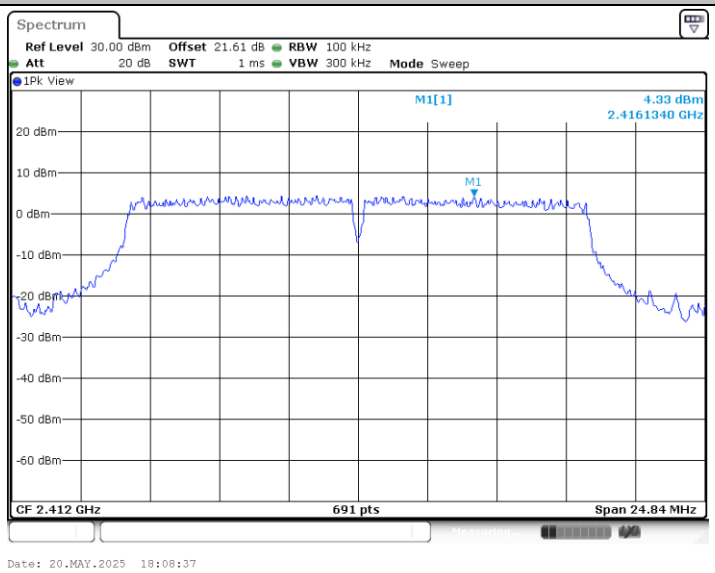
11B_Ant1_2437



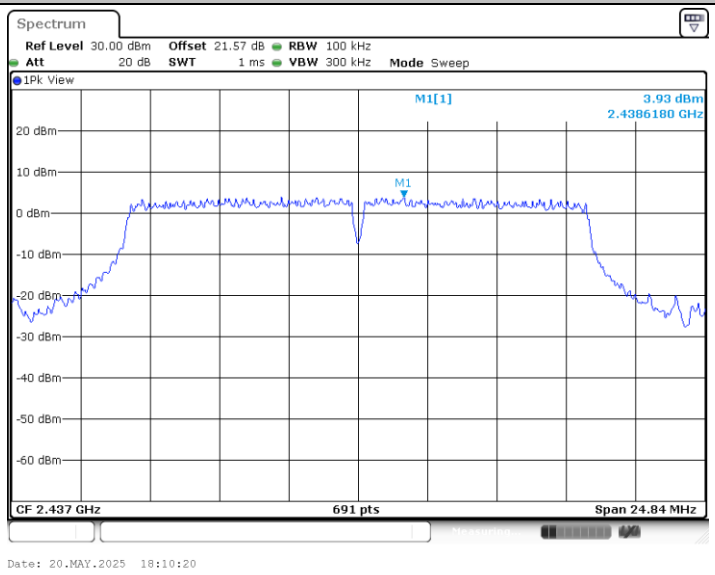
11B_Ant1_2462



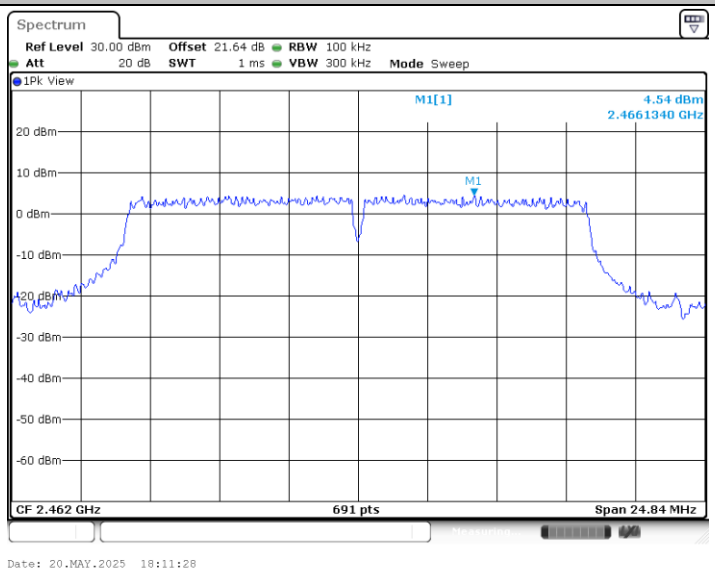
11G_Ant1_2412



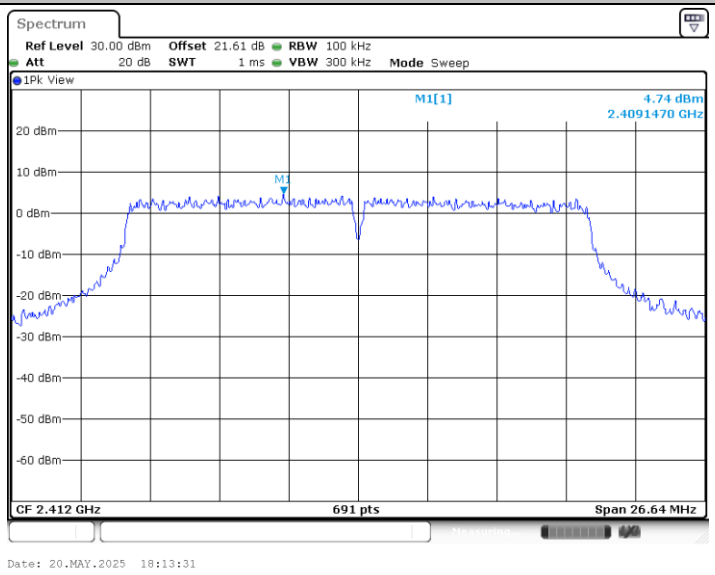
11G_Ant1_2437



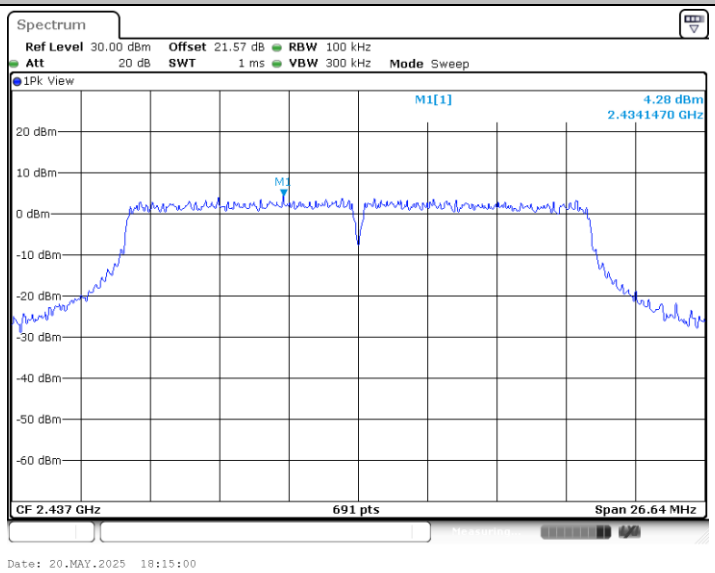
11G_Ant1_2462



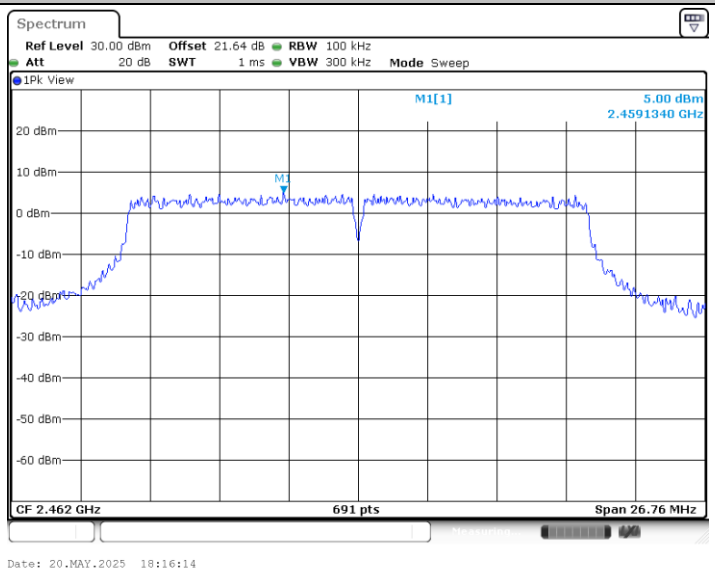
11N20SISO_Ant1_2412



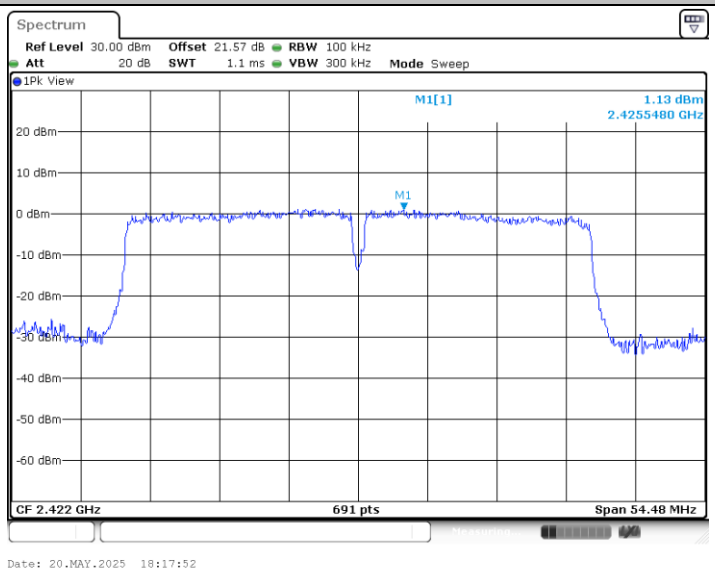
11N20SISO_Ant1_2437



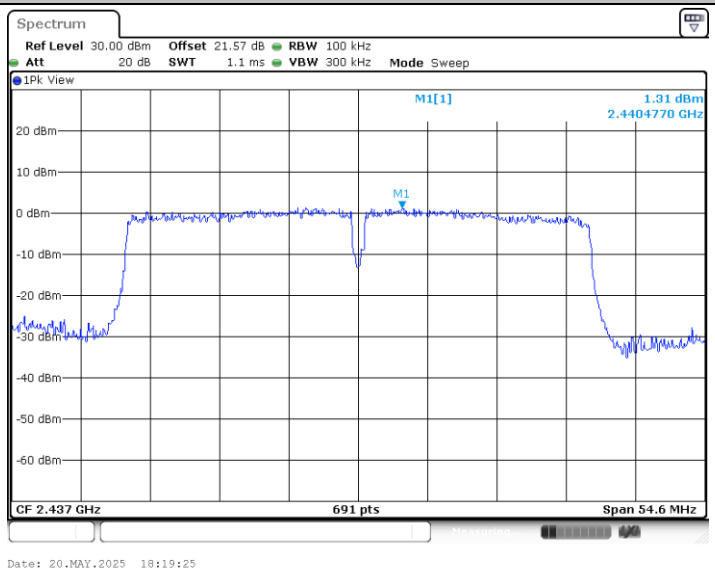
11N20SISO_Ant1_2462



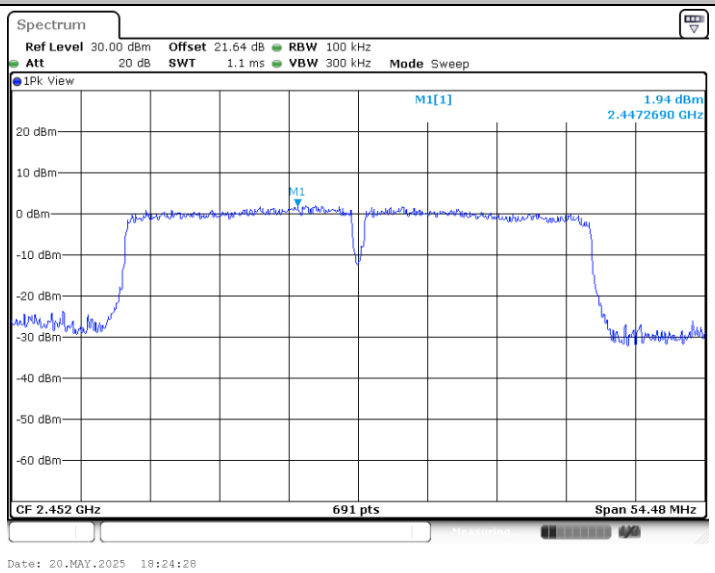
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



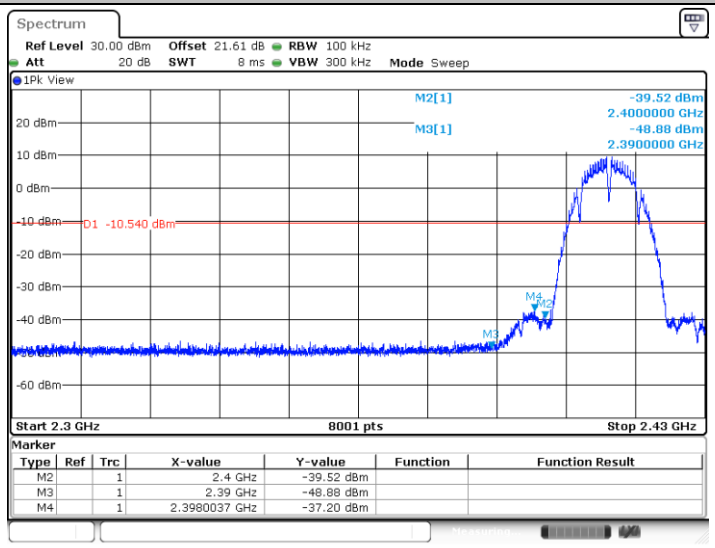
Band edge measurements

Test Result

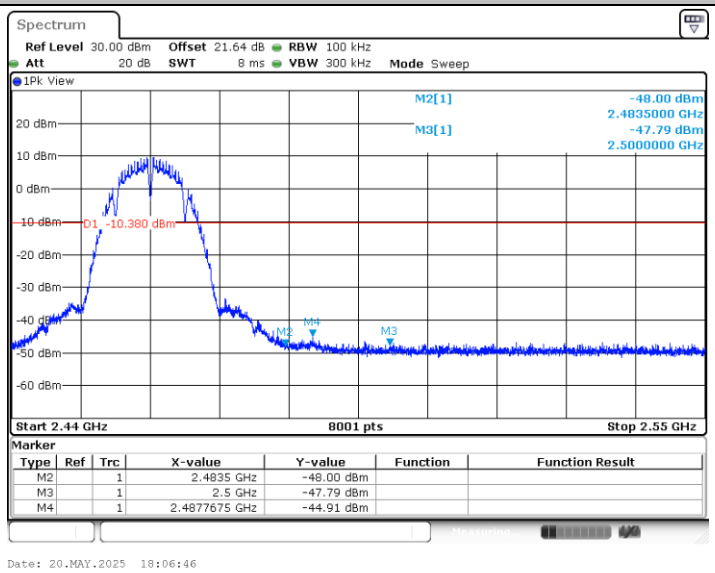
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm/100KHz]	Result [dBm/100KHz]	Limit [dBm/100KHz]	Verdict
11B	Ant1	Low	2412	9.46	-37.2	≤-10.54	PASS
		High	2462	9.62	-44.91	≤-10.38	PASS
11G	Ant1	Low	2412	4.33	-19.77	≤-15.67	PASS
		High	2462	4.54	-31.81	≤-15.46	PASS
11N20SISO	Ant1	Low	2412	4.74	-22.35	≤-15.26	PASS
		High	2462	5.00	-27.4	≤-15	PASS
11N40SISO	Ant1	Low	2422	1.13	-23.89	≤-18.87	PASS
		High	2452	1.94	-28.42	≤-18.06	PASS

Test Graphs

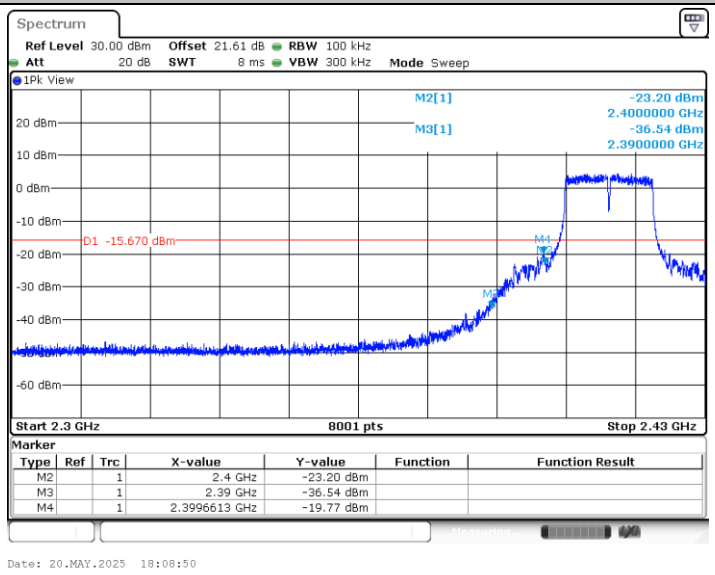
11B_Ant1_Low_2412



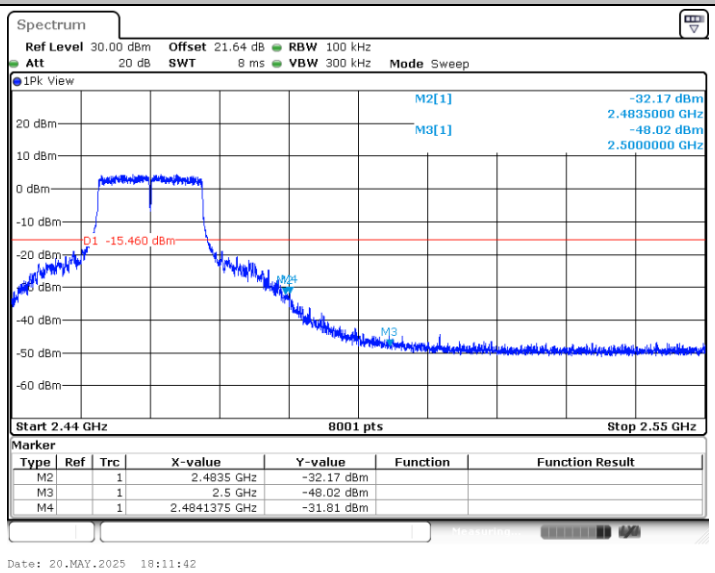
11B_Ant1_High_2462



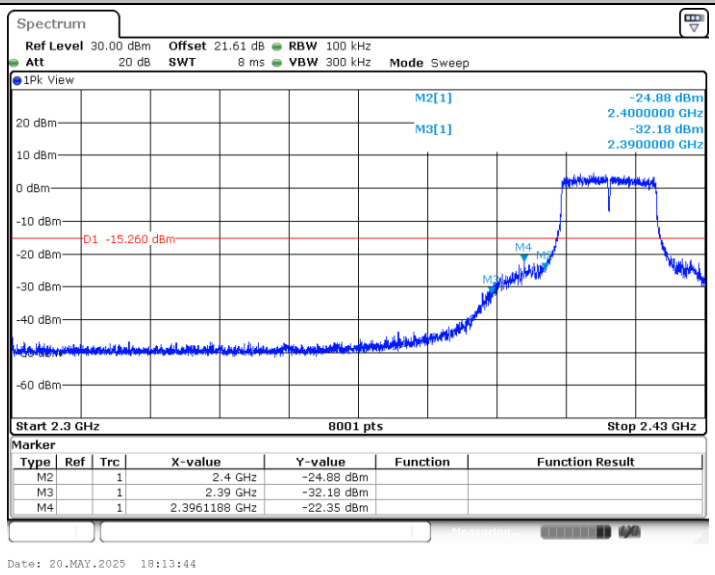
11G_Ant1_Low_2412



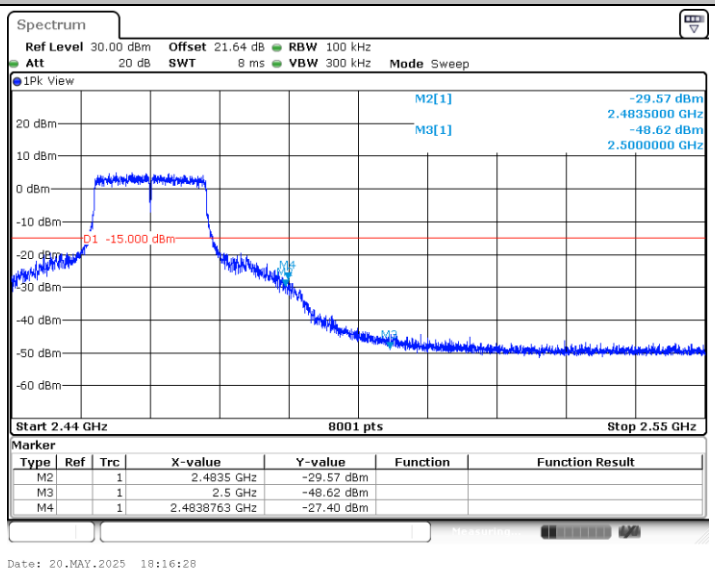
11G_Ant1_High_2462



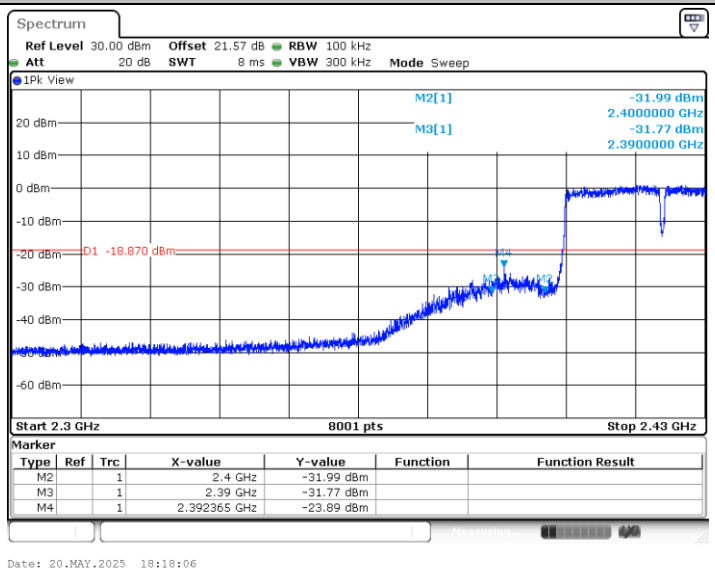
11N20SISO_Ant1_Low_2412



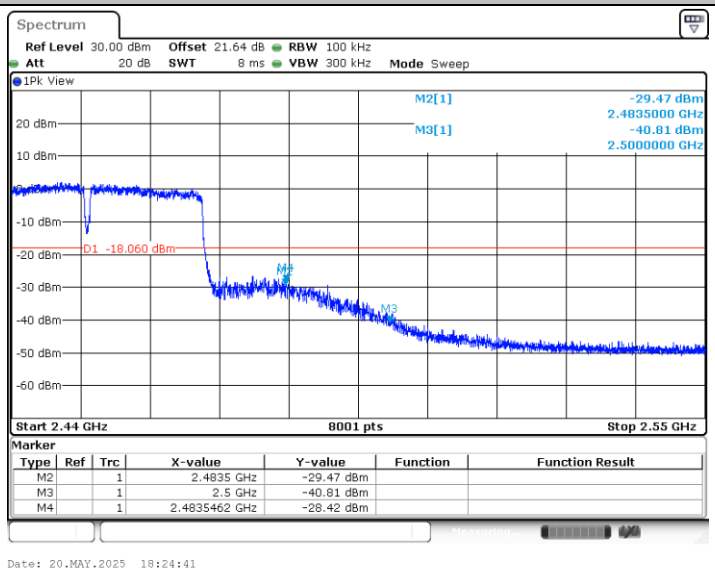
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



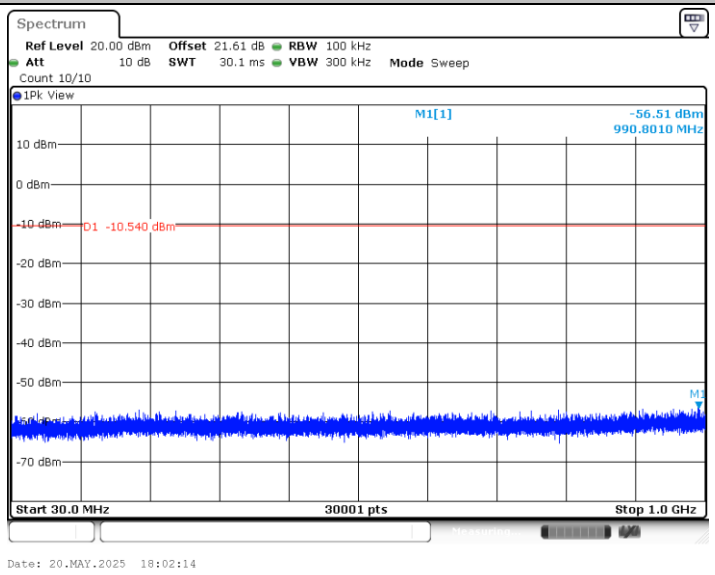
Conducted Spurious Emission

Test Result

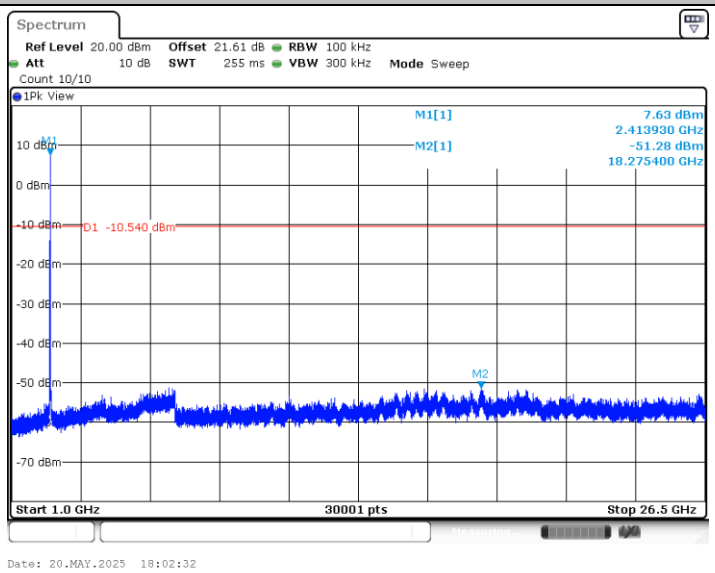
TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm/100KHz]	Result [dBm/100KHz]	Limit [dBm/100KHz]	Verdict
11B	Ant1	2412	30~1000	9.46	-56.51	≤-10.54	PASS
			1000~26500	9.46	-51.28	≤-10.54	PASS
		2437	30~1000	9.13	-55.96	≤-10.87	PASS
			1000~26500	9.13	-51.3	≤-10.87	PASS
		2462	30~1000	9.62	-55.89	≤-10.38	PASS
			1000~26500	9.62	-50.42	≤-10.38	PASS
11G	Ant1	2412	30~1000	4.33	-54.99	≤-15.67	PASS
			1000~26500	4.33	-50.7	≤-15.67	PASS
		2437	30~1000	3.93	-55.19	≤-16.07	PASS
			1000~26500	3.93	-50.75	≤-16.07	PASS
		2462	30~1000	4.54	-55.57	≤-15.46	PASS
			1000~26500	4.54	-51.15	≤-15.46	PASS
11N20SISO	Ant1	2412	30~1000	4.74	-55.94	≤-15.26	PASS
			1000~26500	4.74	-51.26	≤-15.26	PASS
		2437	30~1000	4.28	-55.34	≤-15.72	PASS
			1000~26500	4.28	-51.64	≤-15.72	PASS
		2462	30~1000	5.00	-55.1	≤-15	PASS
			1000~26500	5.00	-50.94	≤-15	PASS
11N40SISO	Ant1	2422	30~1000	1.13	-56.02	≤-18.87	PASS
			1000~26500	1.13	-51.1	≤-18.87	PASS
		2437	30~1000	1.31	-54.96	≤-18.69	PASS
			1000~26500	1.31	-51.25	≤-18.69	PASS
		2452	30~1000	1.94	-55.58	≤-18.06	PASS
			1000~26500	1.94	-50.48	≤-18.06	PASS

Test Graphs

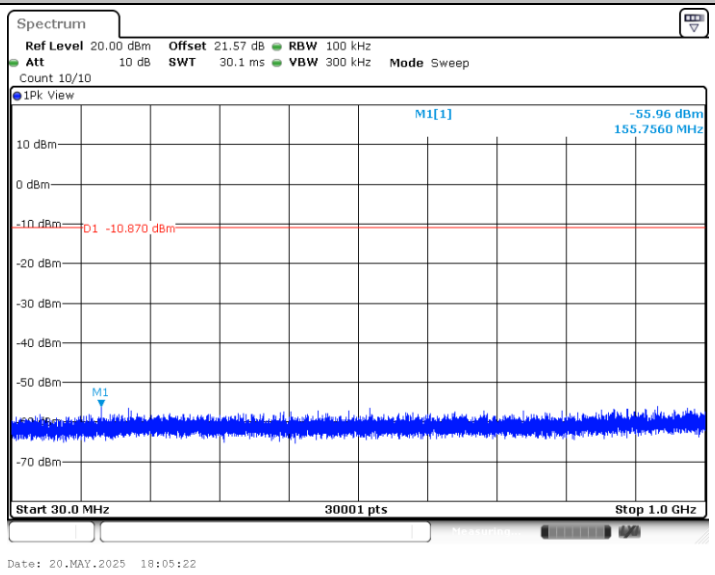
11B_Ant1_2412_30~1000



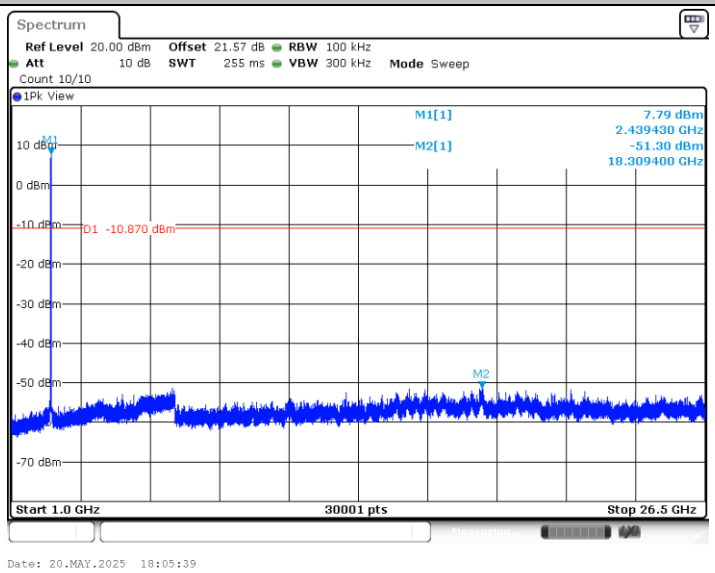
11B_Ant1_2412_1000~26500



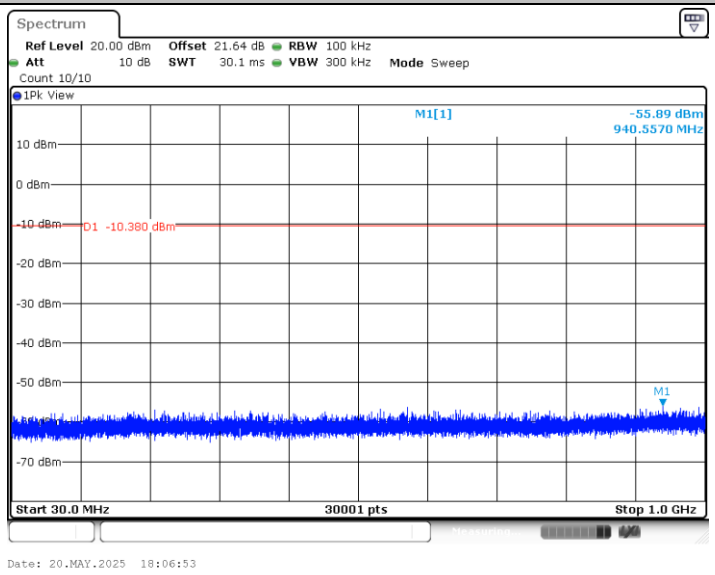
11B_Ant1_2437_30~1000



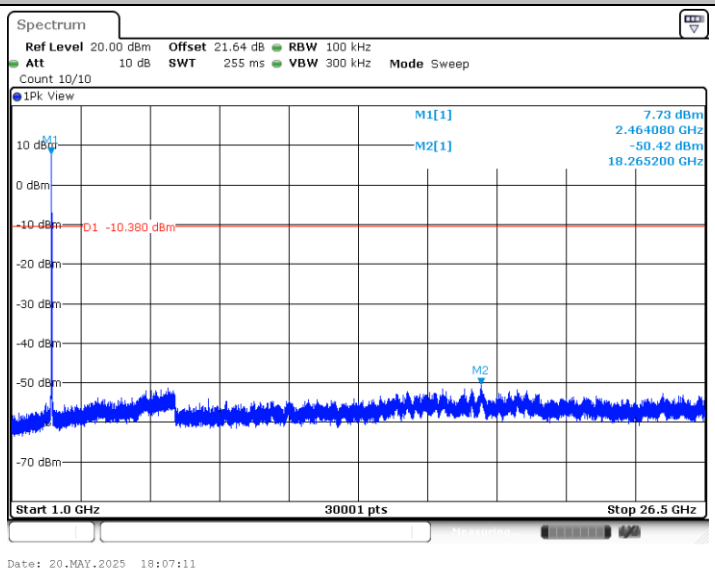
11B_Ant1_2437_1000~26500



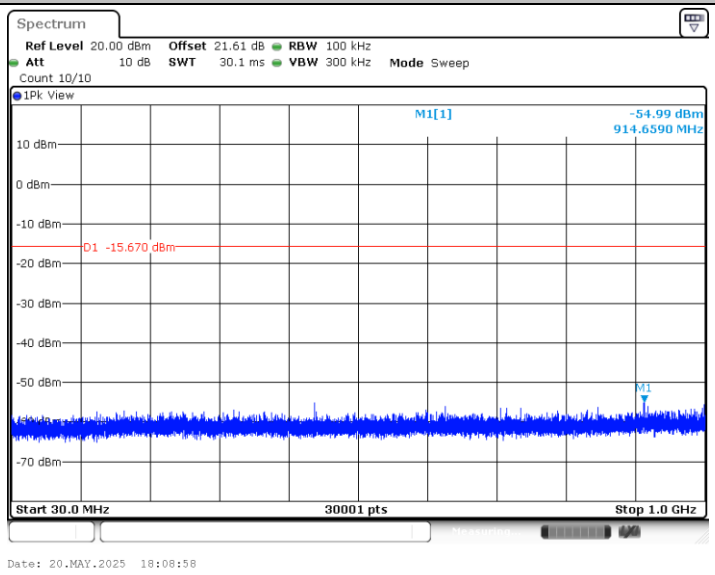
11B_Ant1_2462_30~1000



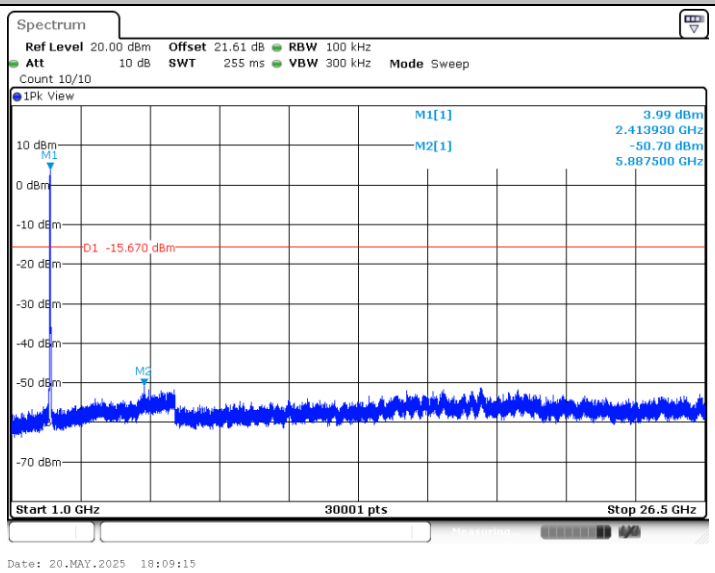
11B_Ant1_2462_1000~26500



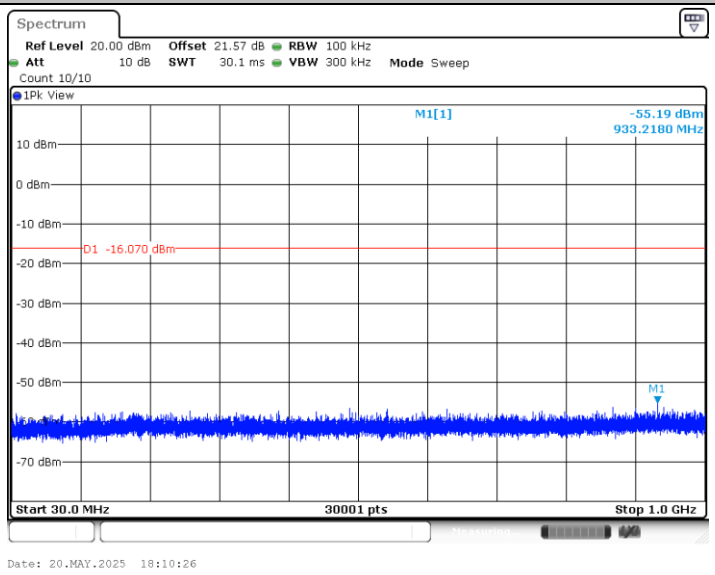
11G_Ant1_2412_30~1000



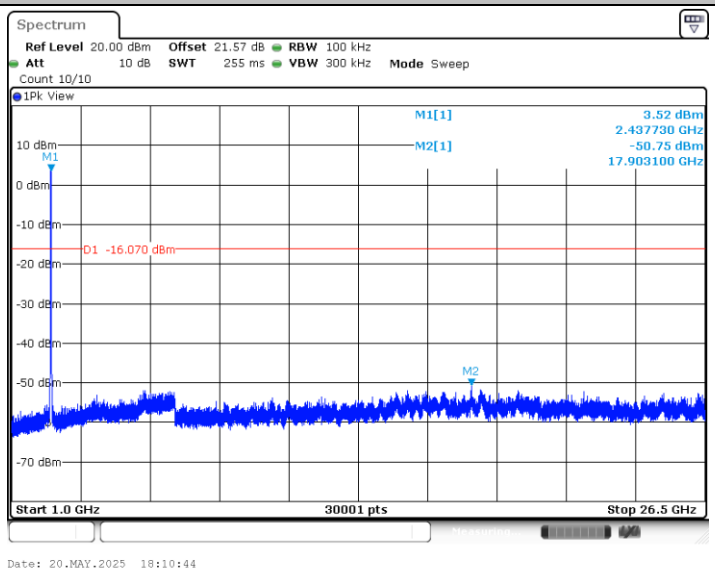
11G_Ant1_2412_1000~26500



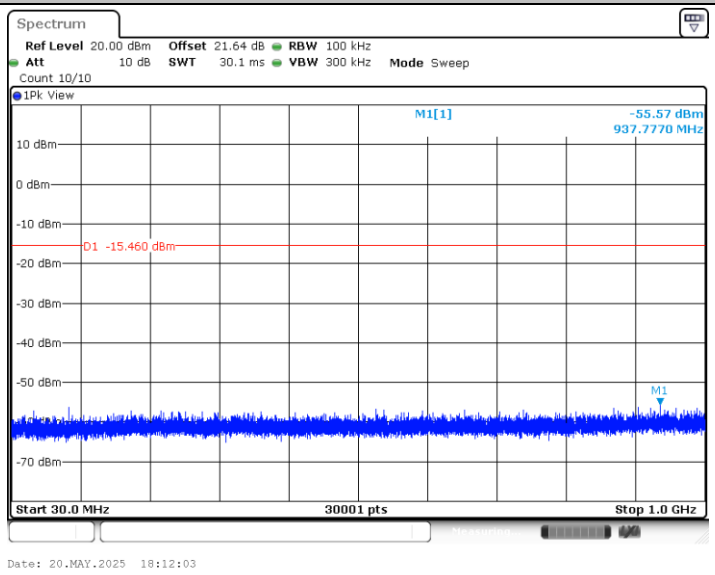
11G_Ant1_2437_30~1000



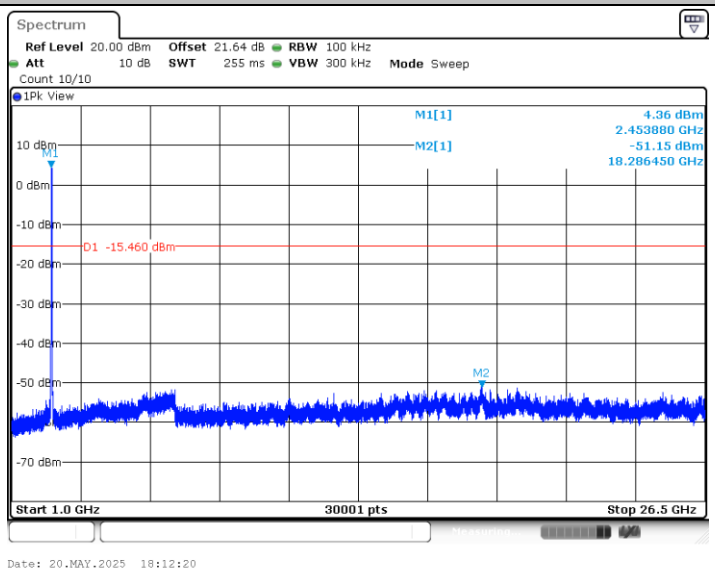
11G_Ant1_2437_1000~26500



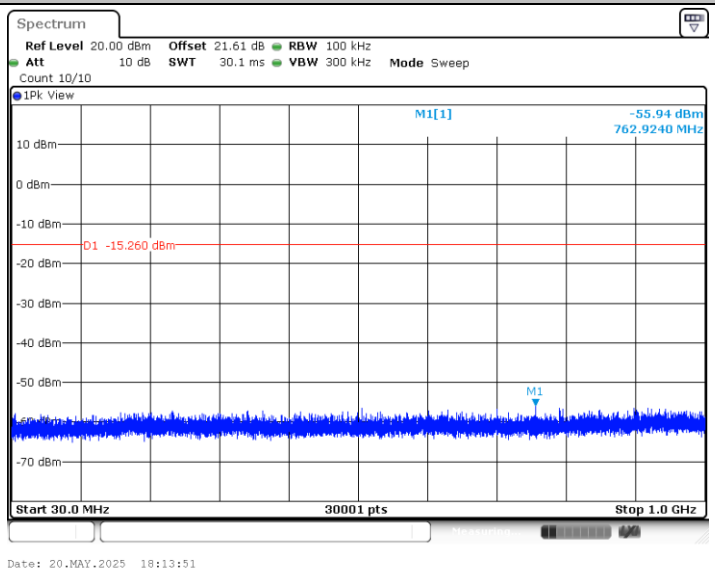
11G_Ant1_2462_30~1000



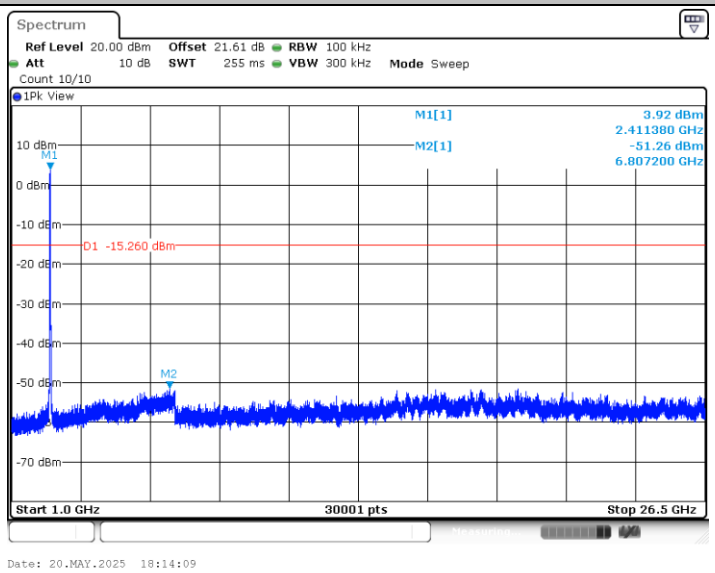
11G_Ant1_2462_1000~26500



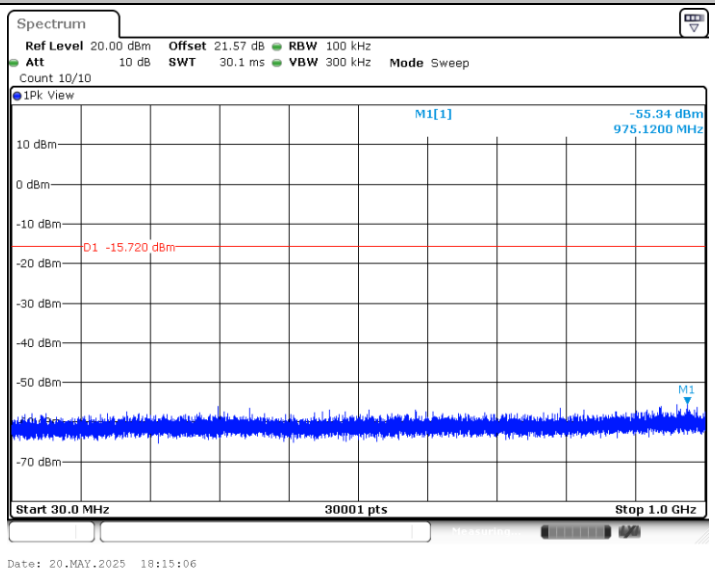
11N20SISO_Ant1_2412_30~1000



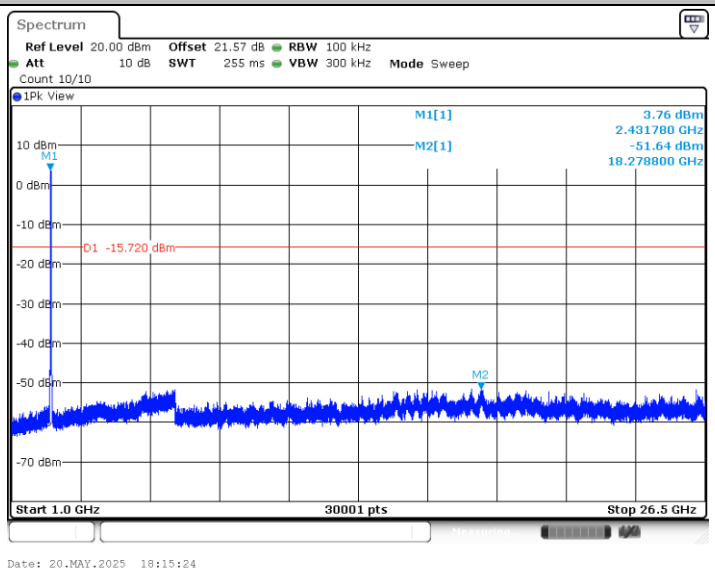
11N20SISO_Ant1_2412_1000~26500



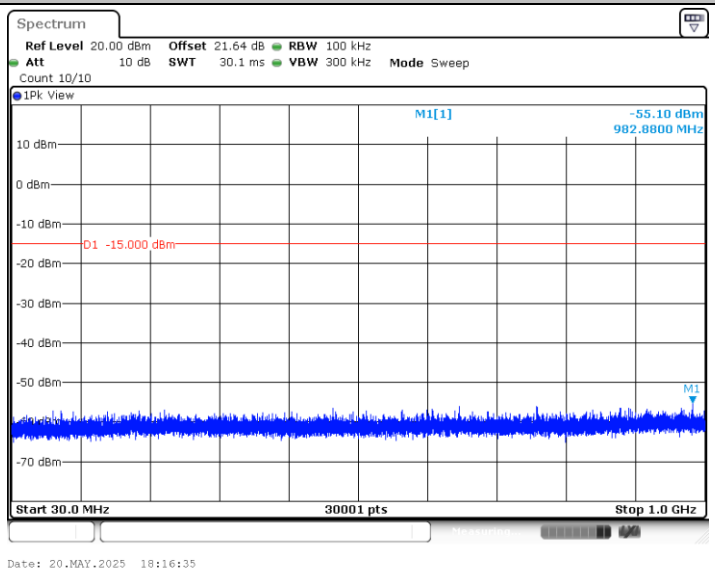
11N20SISO_Ant1_2437_30~1000



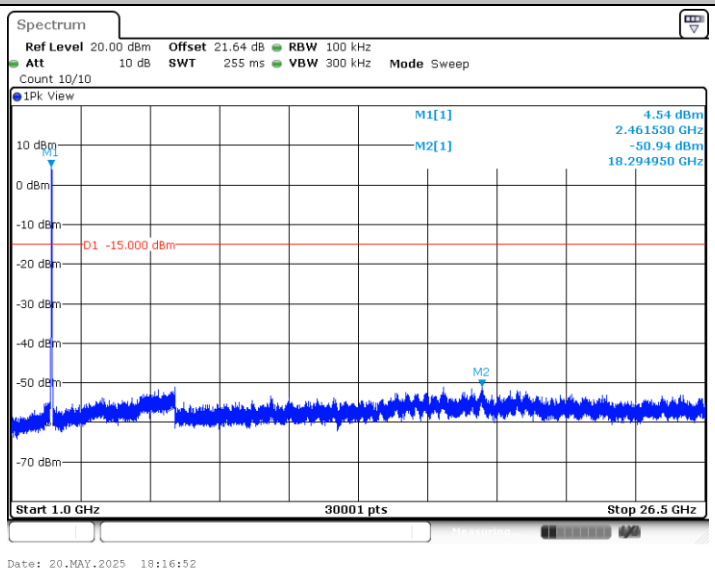
11N20SISO_Ant1_2437_1000~26500



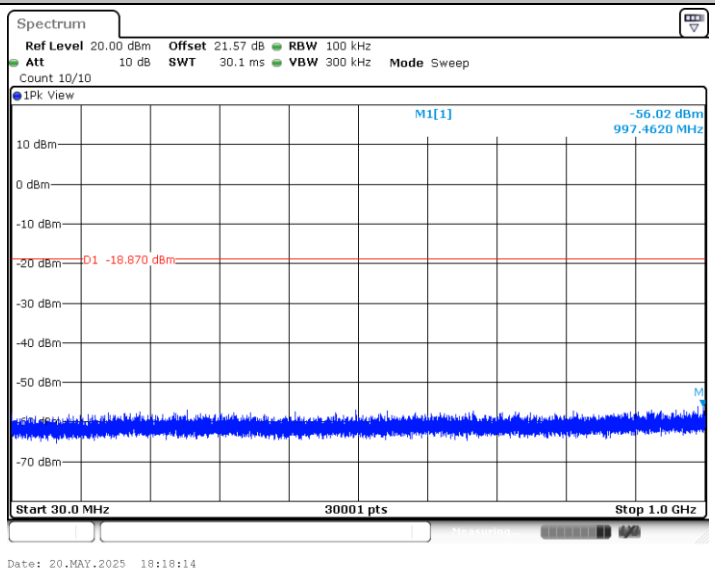
11N20SISO_Ant1_2462_30~1000



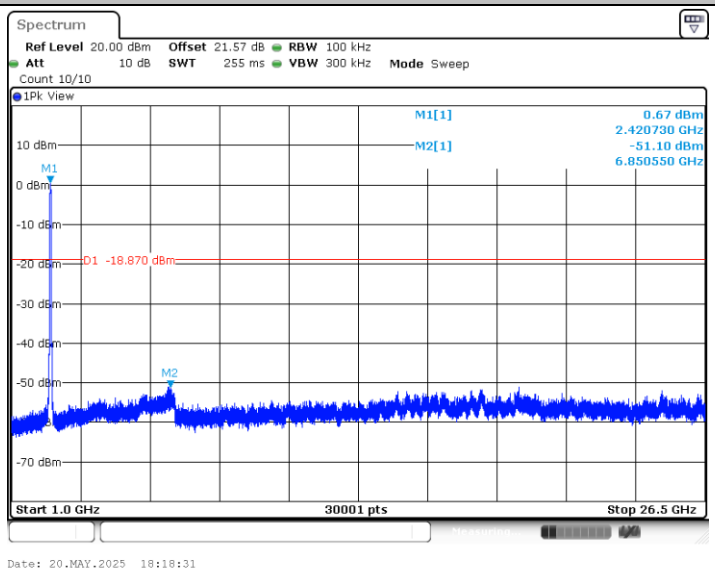
11N20SISO_Ant1_2462_1000~26500



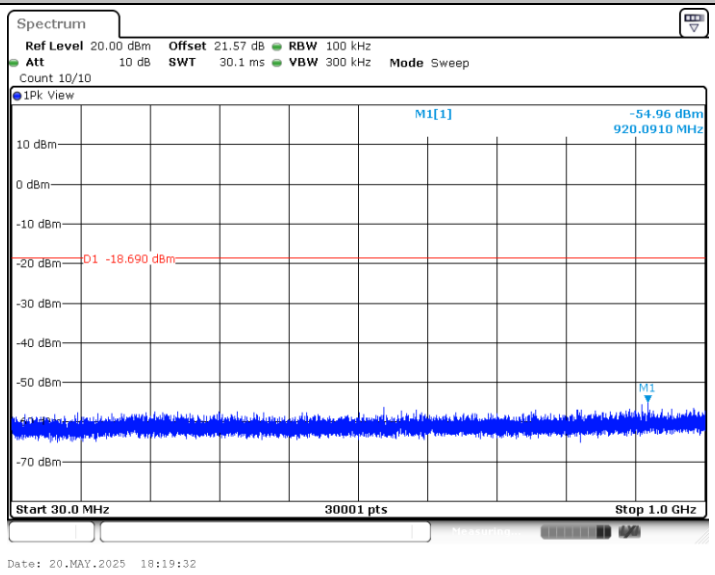
11N40SISO_Ant1_2422_30~1000



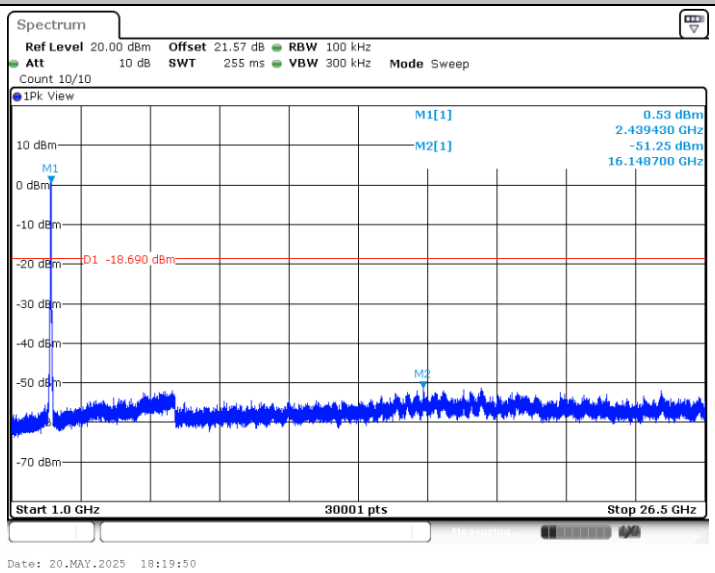
11N40SISO_Ant1_2422_1000~26500



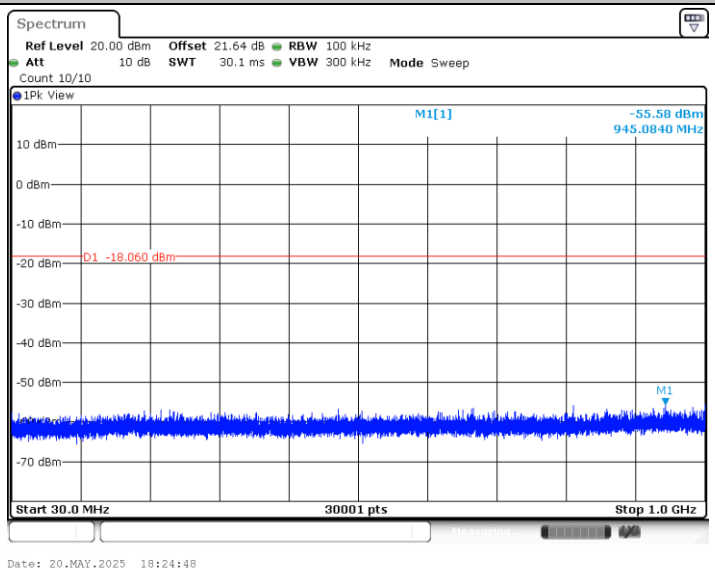
11N40SISO_Ant1_2437_30~1000



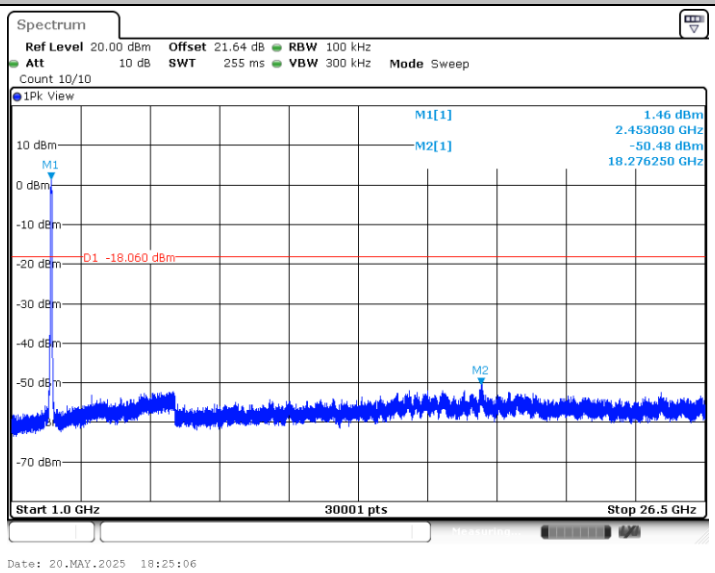
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_30~1000

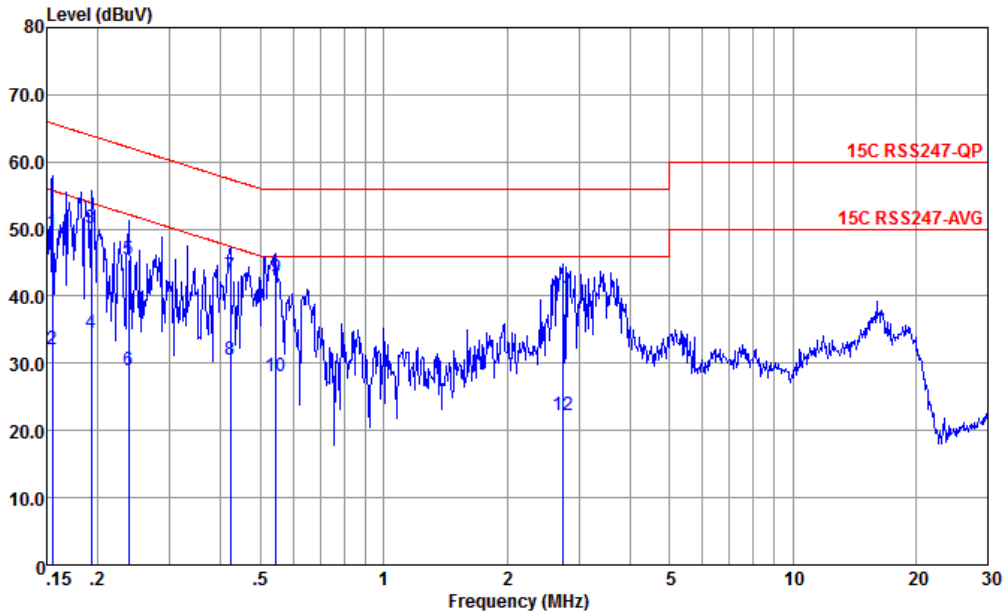


11N40SISO_Ant1_2452_1000~26500



Appendix B. AC Conducted Emission Test Results

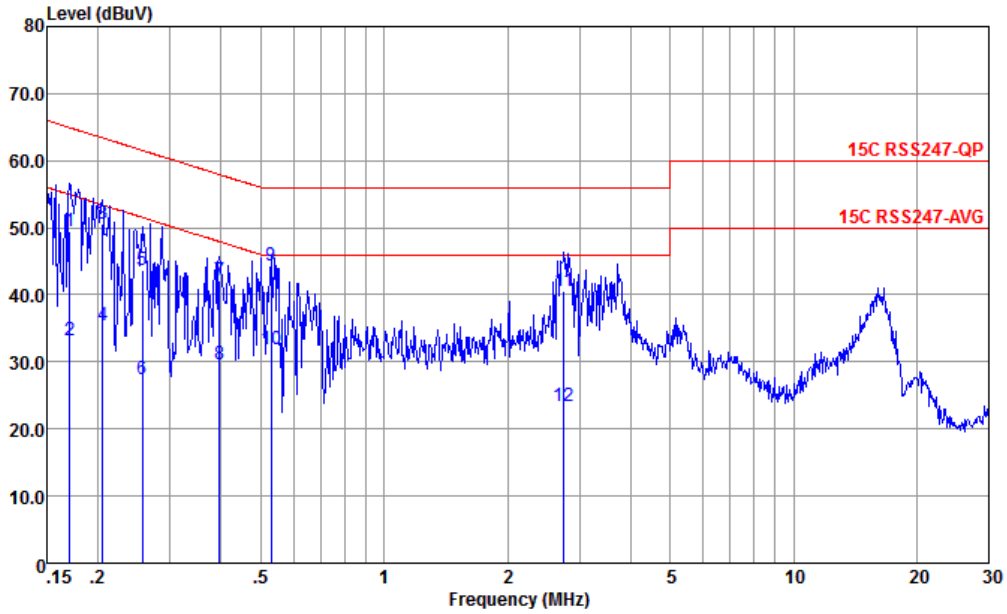
Test Engineer :	Amos Zhang	**Temperature :**	25.3 ~ 26.2℃
		Relative Humidity :	38 ~ 40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-L 2024 LINE

	Freq MHz	Level dBuV	Over Limit dB	Limit Line dBuV	Read Level dBuV	LISN Factor dB	Cable Loss dB	Remark
1	0.155	49.37	-16.37	65.74	38.80	0.12	10.45	QP
2	0.155	32.07	-23.67	55.74	21.50	0.12	10.45	Average
3	0.192	50.14	-13.79	63.93	39.60	0.08	10.46	QP
4	0.192	34.44	-19.49	53.93	23.90	0.08	10.46	Average
5	0.238	45.35	-16.82	62.17	34.80	0.08	10.47	QP
6	0.238	29.05	-23.12	52.17	18.50	0.08	10.47	Average
7	0.421	43.03	-14.39	57.42	32.60	-0.04	10.47	QP
8	0.421	30.63	-16.79	47.42	20.20	-0.04	10.47	Average
9 *	0.546	42.77	-13.23	56.00	32.50	-0.12	10.39	QP
10	0.546	28.07	-17.93	46.00	17.80	-0.12	10.39	Average
11	2.736	39.85	-16.15	56.00	29.79	-0.17	10.23	QP
12	2.736	22.25	-23.75	46.00	12.19	-0.17	10.23	Average

Test Engineer :	Amos Zhang	**Temperature :**	25.3 ~ 26.2℃
		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 2024 NEUTRAL

	Freq MHz	Level dBuV	Over Limit dB	Limit Line dBuV	Read Level dBuV	LISN Factor dB	Cable Loss dB	Remark
1	0.170	49.48	-15.46	64.94	38.91	0.12	10.45	QP
2	0.170	33.18	-21.76	54.94	22.61	0.12	10.45	Average
3	0.205	50.48	-12.92	63.40	39.91	0.11	10.46	QP
4	0.205	35.38	-18.02	53.40	24.81	0.11	10.46	Average
5	0.256	43.75	-17.81	61.56	33.31	-0.03	10.47	QP
6	0.256	27.35	-24.21	51.56	16.91	-0.03	10.47	Average
7	0.396	42.15	-15.80	57.95	31.80	-0.14	10.49	QP
8	0.396	29.55	-18.40	47.95	19.20	-0.14	10.49	Average
9 *	0.529	44.35	-11.65	56.00	34.10	-0.15	10.40	QP
10	0.529	31.85	-14.15	46.00	21.60	-0.15	10.40	Average
11	2.750	40.62	-15.38	56.00	30.60	-0.21	10.23	QP
12	2.750	23.32	-22.68	46.00	13.30	-0.21	10.23	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

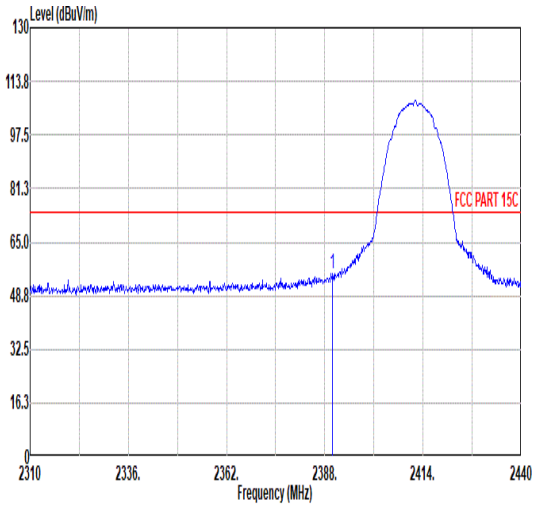
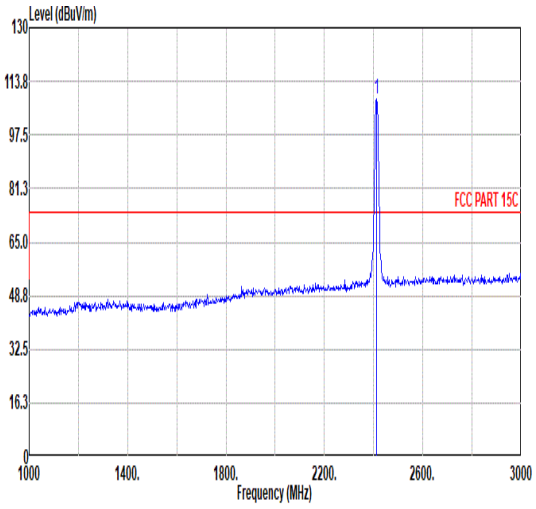
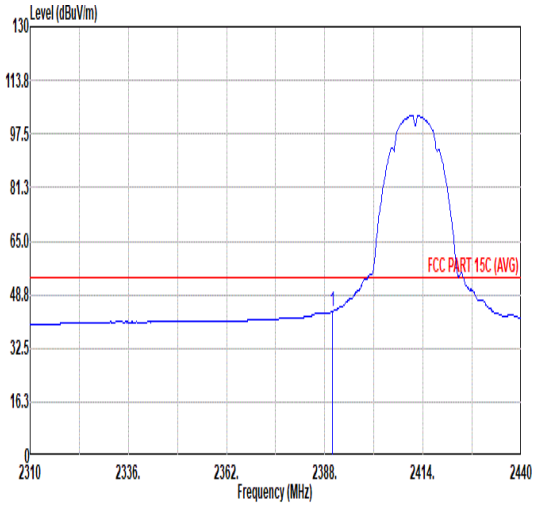
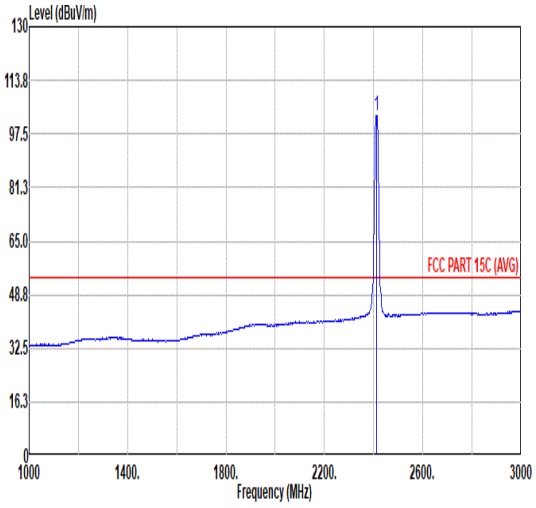
Test Engineer :	Bernie Liu	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 ℃

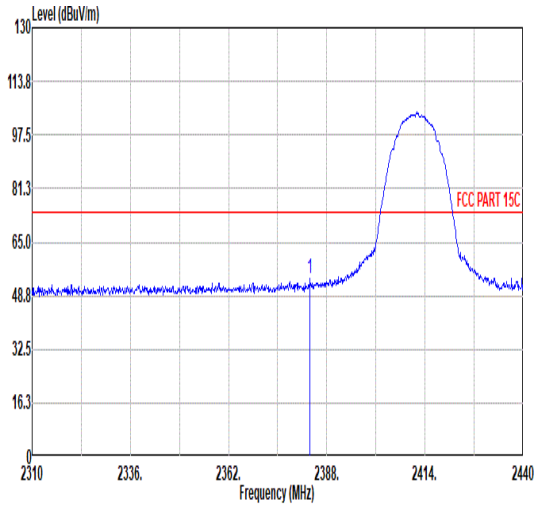
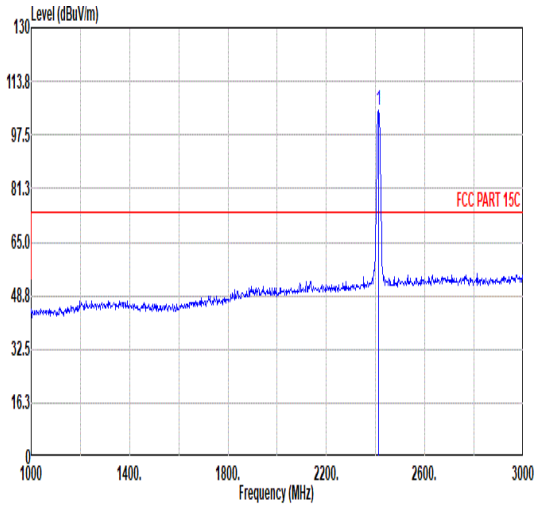
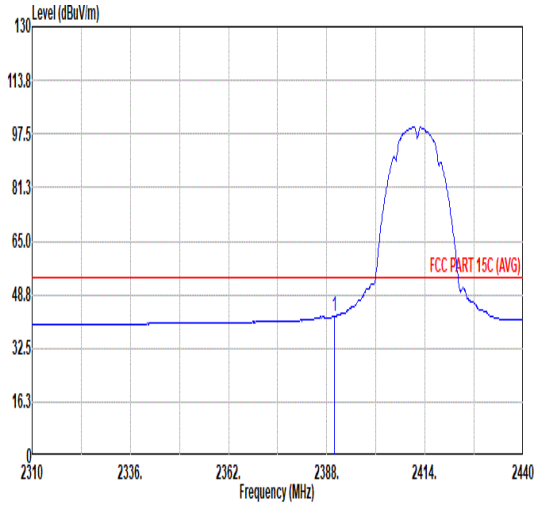
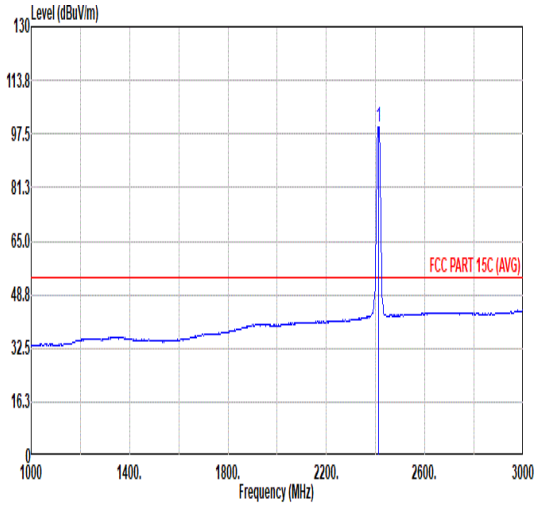
Radiated Spurious Emission Test Modes

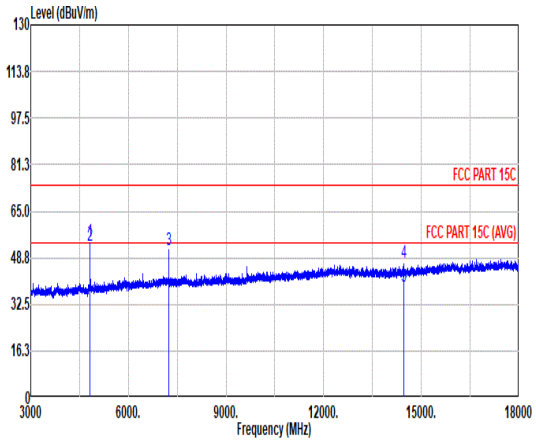
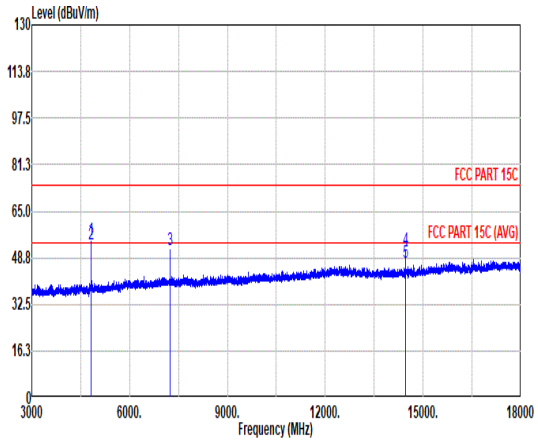
Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 7	2400-2483.5	1	802.11b	01	2412	1Mbps	-	-
Mode 8	2400-2483.5	1	802.11b	06	2437	1Mbps	-	-
Mode 9	2400-2483.5	1	802.11b	11	2462	1Mbps	-	-
Mode 10	2400-2483.5	1	802.11g	01	2412	6Mbps	-	-
Mode 11	2400-2483.5	1	802.11g	06	2437	6Mbps	-	-
Mode 12	2400-2483.5	1	802.11g	11	2462	6Mbps	-	-
Mode 13	2400-2483.5	1	802.11n HT20	01	2412	MCS0	-	-
Mode 14	2400-2483.5	1	802.11n HT20	06	2437	MCS0	-	-
Mode 15	2400-2483.5	1	802.11n HT20	11	2462	MCS0	-	-
Mode 16	2400-2483.5	1	802.11n HT40	3	2422	MCS0	-	-
Mode 17	2400-2483.5	1	802.11n HT40	06	2437	MCS0	-	-
Mode 18	2400-2483.5	1	802.11n HT40	9	2452	MCS0	-	-

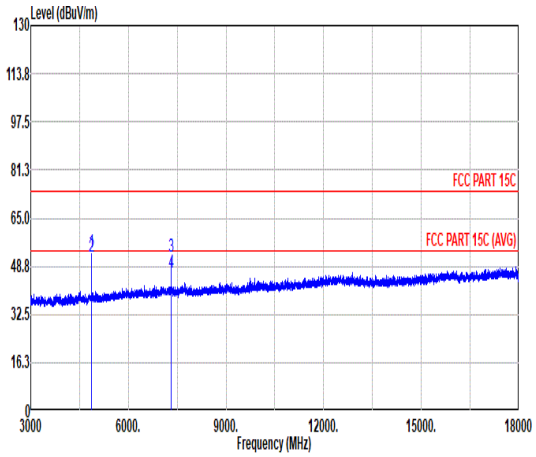
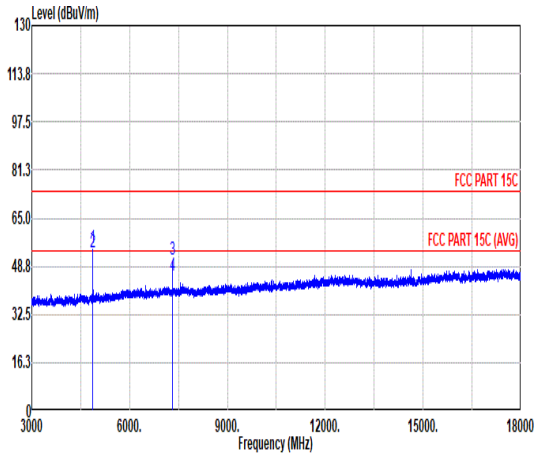
Summary of each worse mode

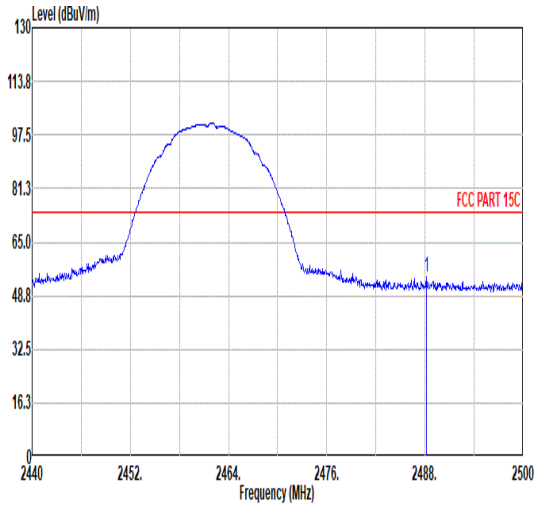
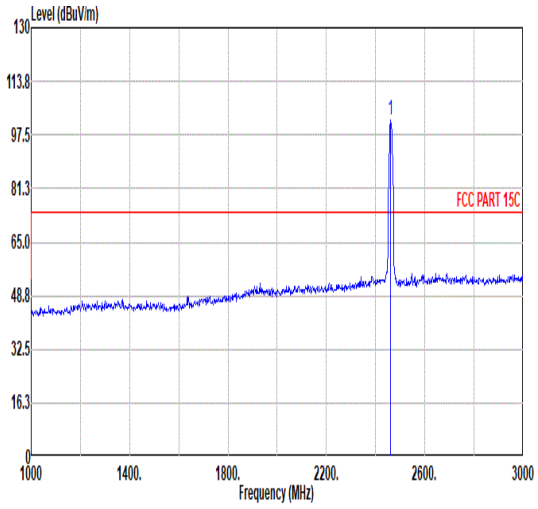
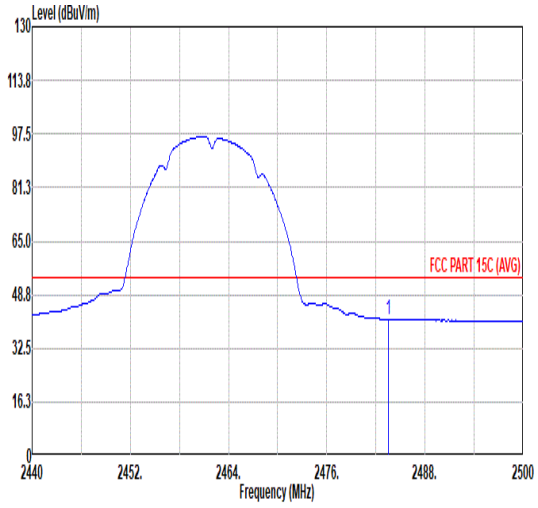
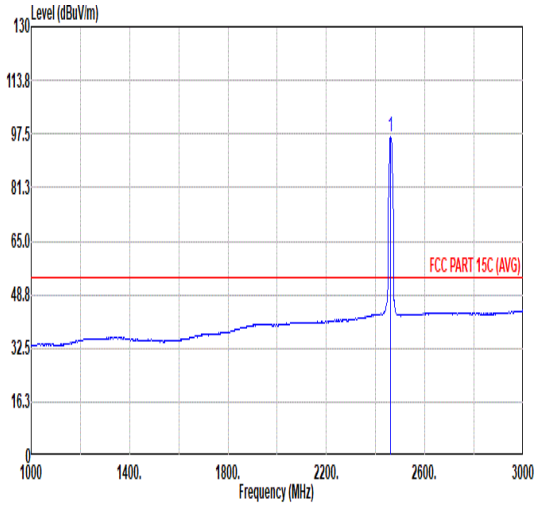
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
7	802.11b	01	2389.95	43.82	54.00	-10.18	H	AVERAGE	Pass	Band Edge
7	802.11b	01	4824.00	53.55	54.00	-0.45	V	AVERAGE	Pass	Harmonic
8	802.11b	06	-	-	-	-	-	-	-	Band Edge
8	802.11b	06	4874.00	53.38	54.00	-0.62	V	AVERAGE	Pass	Harmonic
9	802.11b	11	2483.50	41.30	54.00	-12.70	H	AVERAGE	Pass	Band Edge
9	802.11b	11	4924.00	53.16	54.00	-0.84	V	AVERAGE	Pass	Harmonic
10	802.11g	01	2389.82	52.92	54.00	-1.08	H	AVERAGE	Pass	Band Edge
10	802.11g	01	7225.00	51.55	74.30	-22.75	V	Peak	Pass	Harmonic
11	802.11g	06	-	-	-	-	-	-	-	Band Edge
11	802.11g	06	7311.00	47.40	54.00	-6.60	H	AVERAGE	Pass	Harmonic
12	802.11g	11	2483.50	53.22	54.00	-0.78	H	AVERAGE	Pass	Band Edge
12	802.11g	11	7386.00	51.48	54.00	-2.52	H	AVERAGE	Pass	Harmonic
13	802.11n HT20	01	2389.56	73.78	74.00	-0.22	H	PEAK	Pass	Band Edge
13	802.11n HT20	01	7237.00	50.29	73.87	-23.58	V	Peak	Pass	Harmonic
14	802.11n HT20	06	-	-	-	-	-	-	-	Band Edge
14	802.11n HT20	06	7311.00	47.63	54.00	-6.37	H	AVERAGE	Pass	Harmonic
15	802.11n HT20	11	2483.50	53.11	54.00	-0.89	H	AVERAGE	Pass	Band Edge
15	802.11n HT20	11	7386.00	50.20	54.00	-3.80	H	AVERAGE	Pass	Harmonic
16	802.11n HT40	3	2389.95	53.14	54.00	-0.86	H	AVERAGE	Pass	Band Edge
16	802.11n HT40	3	7272.00	47.69	74.00	-26.31	V	Peak	Pass	Harmonic
17	802.11n HT40	06	2389.95	52.96	54.00	-1.04	H	AVERAGE	Pass	Band Edge
17	802.11n HT40	06	7315.00	49.01	74.00	-24.99	H	Peak	Pass	Harmonic
18	802.11n HT40	9	2483.50	52.12	54.00	-1.88	H	AVERAGE	Pass	Band Edge
18	802.11n HT40	9	7356.00	47.18	54.00	-6.82	H	AVERAGE	Pass	Harmonic

Mode	7	
	Band Edge	
	2400-2483.5_802.11b_CH01_2412MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.95 55.63 74.00 -18.37 47.64 31.87 7.11 36.99 6.00 171 286 PEAK	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2412.00 108.32 ------ ------ 100.24 31.94 7.14 37.00 6.00 171 286 PEAK
Avg	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.95 43.82 54.00 -10.18 35.83 31.87 7.11 36.99 6.00 171 286 AVERAGE	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2412.00 103.24 ------ ------ 95.16 31.94 7.14 37.00 6.00 171 286 AVERAGE

Mode	7	
	Band Edge	
	2400-2483.5_802.11b_CH01_2412MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 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 dB cm deg 1 2383.58 53.75 74.00 -20.25 45.79 31.85 7.10 36.99 6.00 293 272 PEAK	 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 dB cm deg 1 2412.00 104.75 ------ ------ 96.67 31.94 7.14 37.00 6.00 293 272 PEAK
Avg	 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 dB cm deg 1 2389.95 42.28 54.00 -11.72 34.29 31.87 7.11 36.99 6.00 293 272 AVERAGE	 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 dB cm deg 1 2412.00 99.71 ------ ------ 91.63 31.94 7.14 37.00 6.00 293 272 AVERAGE

Mode	7	
	Harmonic	
	2400-2483.5_802.11b_CH01_2412MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4824.00 54.22 74.00 -19.78 75.48 33.90 10.23 65.39 0.00 101 34 PEAK 2 4824.00 52.76 54.00 -1.24 74.02 33.90 10.23 65.39 0.00 101 34 AVERAGE 3 7236.00 51.40 82.40 -31.00 68.97 35.54 12.71 65.82 0.00 --- --- Peak 4 14472.00 47.32 74.00 -26.68 54.62 39.12 18.35 64.77 0.00 101 34 PEAK 5 14472.00 38.72 54.00 -15.28 46.02 39.12 18.35 64.77 0.00 101 34 AVERAGE	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4824.00 54.82 74.00 -19.18 76.08 33.90 10.23 65.39 0.00 102 169 PEAK 2 4824.00 53.55 54.00 -0.45 74.81 33.90 10.23 65.39 0.00 102 169 AVERAGE 3 7236.00 51.65 78.30 -26.65 69.22 35.54 12.71 65.82 0.00 --- --- Peak 4 14472.00 51.42 74.00 -22.58 58.72 39.12 18.35 64.77 0.00 101 283 PEAK 5 14472.00 47.14 54.00 -6.86 54.44 39.12 18.35 64.77 0.00 101 283 AVERAGE

Mode	8	
	Harmonic	
	2400-2483.5_802.11b_CH06_2437MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4874.00 53.70 74.00 -20.30 75.06 33.90 10.29 65.55 0.00 100 26 PEAK 2 4874.00 52.02 54.00 -1.98 73.38 33.90 10.29 65.55 0.00 100 26 AVERAGE 3 7311.00 51.81 74.00 -22.19 69.48 35.59 12.72 65.98 0.00 100 208 PEAK 4 7311.00 46.37 54.00 -7.63 64.05 35.59 12.72 65.99 0.00 100 208 AVERAGE	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4874.00 55.12 74.00 -18.88 76.48 33.90 10.29 65.55 0.00 323 165 PEAK 2 4874.00 53.38 54.00 -0.62 74.74 33.90 10.29 65.55 0.00 323 165 AVERAGE 3 7311.00 50.96 74.00 -23.04 68.63 35.59 12.72 65.98 0.00 285 226 PEAK 4 7311.00 45.84 54.00 -8.16 63.52 35.59 12.72 65.99 0.00 285 226 AVERAGE

Mode	9	
	Band Edge	
	2400-2483.5_802.11b_CH11_2462MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2488.18 54.62 74.00 -19.38 46.25 32.16 7.26 37.05 6.00 145 289 PEAK	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2462.00 101.84 ------ ------ 93.56 32.09 7.22 37.03 6.00 145 289 PEAK
Avg	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.50 41.30 54.00 -12.70 32.94 32.15 7.26 37.05 6.00 145 289 AVERAGE	 Freq Level Limit Line Over Limit Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2462.00 96.83 ------ ------ 88.56 32.08 7.22 37.03 6.00 145 289 AVERAGE