



FCC RF Test Report

APPLICANT : Relay, Inc.
EQUIPMENT : Relay
BRAND NAME : RelayM
MODEL NAME : RY2267
FCC ID : 2AMBHRY2267
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Oct. 15, 2024 ~ Feb. 11, 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.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen)

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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



TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Manufacturer.....	5
1.3 Product Feature of Equipment Under Test.....	5
1.4 Product Specification of Equipment Under Test.....	6
1.5 Modification of EUT	6
1.6 Testing Location	7
1.7 Test Software.....	7
1.8 Applicable Standards.....	8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	9
2.1 Carrier Frequency and Channel	9
2.2 Test Mode.....	9
2.3 Connection Diagram of Test System.....	10
2.4 Support Unit used in test configuration and system	11
2.5 EUT Operation Test Setup	11
2.6 Measurement Results Explanation Example.....	12
3 TEST RESULT	13
3.1 6dB and 99% Bandwidth Measurement	13
3.2 Output Power Measurement.....	14
3.3 Power Spectral Density Measurement	19
3.4 Conducted Band Edges and Spurious Emission Measurement	21
3.5 Radiated Band Edges and Spurious Emission Measurement	22
3.6 AC Conducted Emission Measurement.....	26
3.7 Antenna Requirements.....	28
4 LIST OF MEASURING EQUIPMENT	29
5 MEASUREMENT UNCERTAINTY	30
APPENDIX A. CONDUCTED TEST RESULTS	
APPENDIX B. AC CONDUCTED EMISSION TEST RESULT	
APPENDIX C. RADIATED SPURIOUS EMISSION	
APPENDIX D. DUTY CYCLE PLOTS	
APPENDIX E. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR250505C	Rev. 01	Initial issue of report	Feb. 24, 2025

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 3.04 dB at 2389.52 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 16.93 dB at 0.544 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

Relay, Inc.

2230 Bandmate Way, Suite 500, Raleigh, NC 27607, USA

1.2 Manufacturer

Relay, Inc.

2230 Bandmate Way, Suite 500, Raleigh, NC 27607, USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Relay
Brand Name	RelayM
Model Name	RY2267
FCC ID	2AMBHRY2267
IMEI /SN Code	Conducted: CE5CA461 Conduction: 990007540010797/990007540010789 Radiation: 0010904
HW Version	v01
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	<MIMO Ant3+4> 802.11b : 18.73 dBm (0.0746 W) 802.11g : 20.35 dBm (0.1084 W) 802.11n HT20 : 20.42 dBm (0.1102 W) 802.11n HT40 : 19.86 dBm (0.0968 W) 802.11ax HE20 : 21.67 dBm (0.1469 W) 802.11ax HE40 : 20.21 dBm (0.1050 W)
99% Occupied Bandwidth	<MIMO Ant3+4> 802.11b : 12.747MHz 802.11g : 16.583MHz 802.11n HT20 : 17.702MHz 802.11n HT40 : 36.284MHz 802.11ax HE20 : 18.941MHz 802.11ax HE40 : 37.962MHz
Antenna Type / Gain	<Ant 3> : PIFA Antenna with gain 0.41 dBi <Ant 4> : PIFA Antenna with gain -1.39 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)

Note:

1. The device supports WLAN MIMO CDD mode.
2. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to the higher normal output power.
3. For 802.11n HT20 & HT40 & 802.11ax HE20 & HE40 mode, the whole RSE testing has assessed 802.11ax HE20 & HE40 mode by referring to the higher conducted power.
4. 802.11ax support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power/PSD > partial RU, therefore the full RU perform full, and partial RU verify bandedge /spurious.

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	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

Test data subcontracted: Radiated Spurious Emission test case in section 3.5 of this report.

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	CO01-KS	AUDIX	E3	6.2009-8-24
3.	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
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

MIMO Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : n12 Link + Bluetooth Link + WLAN Link(2.4G) + adapter + USB cable

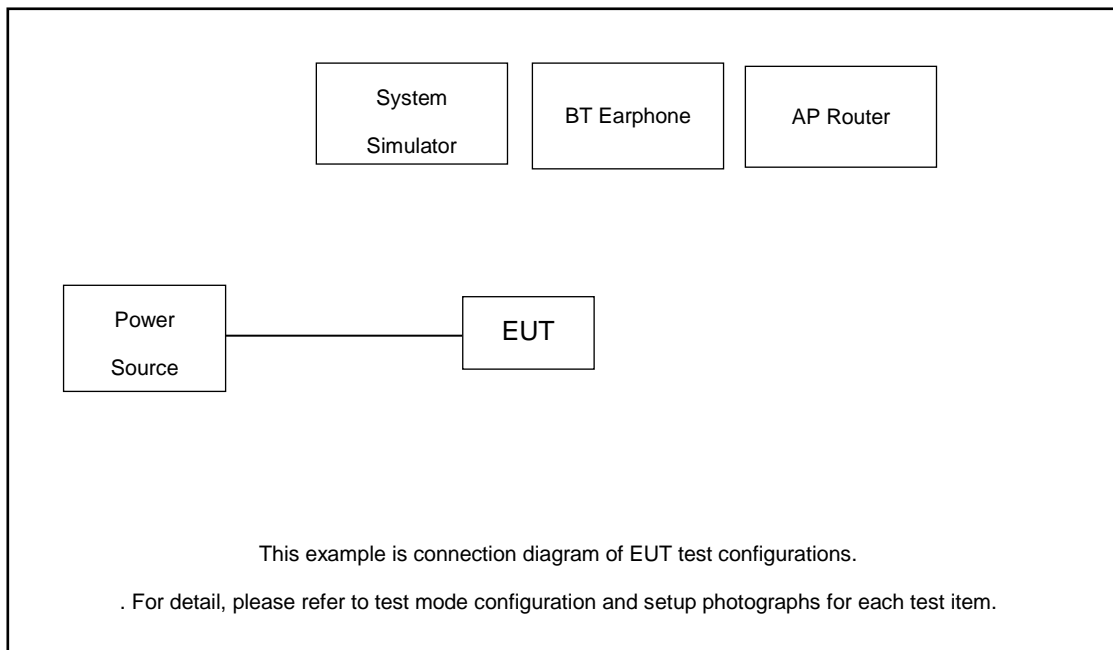
Remark: For Radiated Test Cases, the tests were performance with Adapter and USB Cable.

RSE Co-location

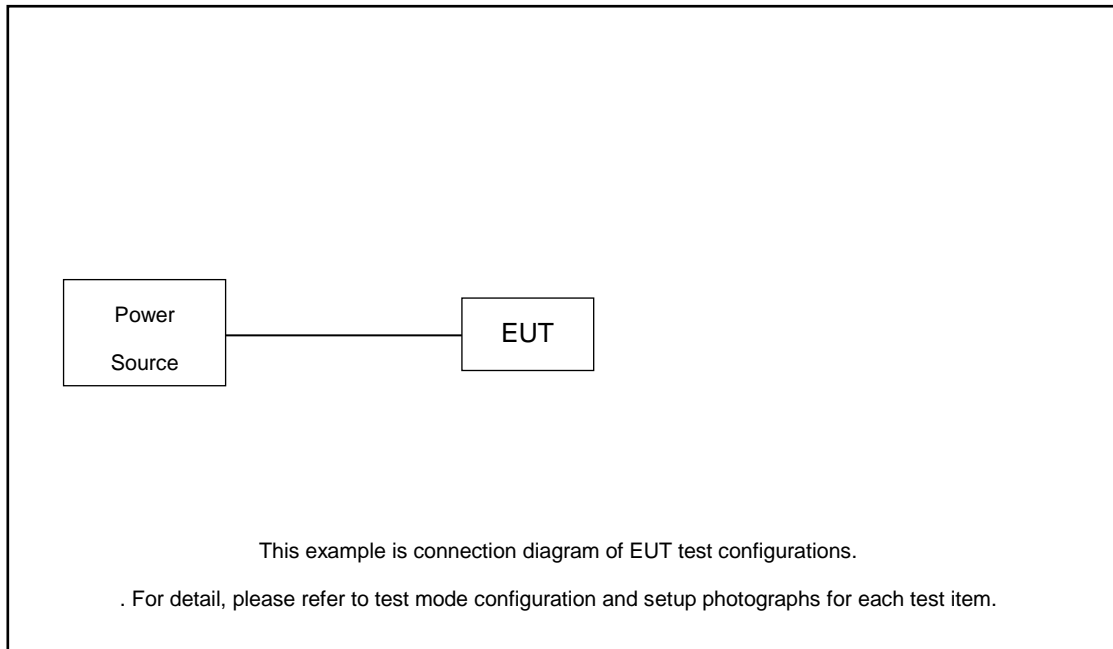
802.11ax HE20 CH11 2462 + Bluetooth-LE (2Mbps) CH00 2402 + LTE Band48 Link
802.11ax HE20 CH11 2462 + UBW TX CH09 + LTE Band48 Link

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	5GNR Base Station	Anritus	MT8000A	N/A	N/A	Unshielded,1.8m
3.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
4.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
5.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
6.	USB cable	Motorola	SKN6378A	Fcc DoC	N/A	Unshielded,1m
7.	Adapter	Amazon	PS57CP	Fcc DoC	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 11.91 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 11.91 + 10 = 21.91 \text{ (dB)}\end{aligned}$$

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.

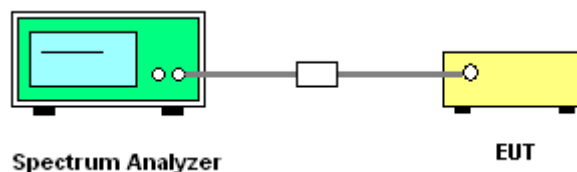
3.1.2 Measuring Instruments

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) $\geq 3 \times \text{RBW}$. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) approximately three times the RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

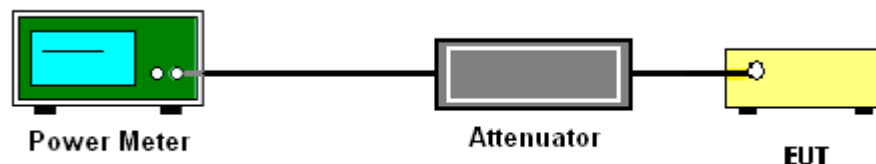
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup





3.2.5 Test Result of Peak Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant3	Ant4	SUM	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	
11b	1Mbps	2	1	2412	15.07	16.28	18.73	30.00		0.41		19.14		36.00		Pass
11b	1Mbps	2	6	2437	15.52	15.74	18.64	30.00		0.41		19.05		36.00		Pass
11b	1Mbps	2	11	2462	15.36	15.75	18.57	30.00		0.41		18.98		36.00		Pass
11g	6Mbps	2	1	2412	16.58	17.82	20.25	30.00		0.41		20.66		36.00		Pass
11g	6Mbps	2	6	2437	16.88	17.75	20.35	30.00		0.41		20.76		36.00		Pass
11g	6Mbps	2	11	2462	16.42	17.42	19.96	30.00		0.41		20.37		36.00		Pass
HT20	MCS0	2	1	2412	15.08	16.12	18.64	30.00		0.41		19.05		36.00		Pass
HT20	MCS0	2	6	2437	16.72	18.01	20.42	30.00		0.41		20.83		36.00		Pass
HT20	MCS0	2	11	2462	14.26	16.57	18.58	30.00		0.41		18.99		36.00		Pass
HT40	MCS0	2	3	2422	12.09	12.61	15.37	30.00		0.41		15.78		36.00		Pass
HT40	MCS0	2	4	2427	15.88	17.03	19.50	30.00		0.41		19.91		36.00		Pass
HT40	MCS0	2	5	2432	16.73	16.97	19.86	30.00		0.41		20.27		36.00		Pass
HT40	MCS0	2	6	2437	16.65	17.01	19.84	30.00		0.41		20.25		36.00		Pass
HT40	MCS0	2	7	2442	16.17	16.84	19.53	30.00		0.41		19.94		36.00		Pass
HT40	MCS0	2	8	2447	16.43	16.95	19.71	30.00		0.41		20.12		36.00		Pass
HT40	MCS0	2	9	2452	13.15	13.93	16.57	30.00		0.41		16.98		36.00		Pass



2.4GHz Band MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant3	Ant4	SUM	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	
HE20	MCS0	2	1	2412	Full	16.83	17.02	19.94	30.00		0.41		20.35		36.00		Pass
HE20	MCS0	2	1	2412	26/0	9.32	11.92	13.82	30.00		0.41		14.23		36.00		Pass
HE20	MCS0	2	1	2412	52/37	12.86	14.05	16.51	30.00		0.41		16.92		36.00		Pass
HE20	MCS0	2	1	2412	106/53	15.92	17.36	19.71	30.00		0.41		20.12		36.00		Pass
HE20	MCS0	2	6	2437	Full	18.35	18.95	21.67	30.00		0.41		22.08		36.00		Pass
HE20	MCS0	2	6	2437	26/0	14.05	13.18	16.65	30.00		0.41		17.06		36.00		Pass
HE20	MCS0	2	6	2437	52/37	15.55	16.16	18.88	30.00		0.41		19.29		36.00		Pass
HE20	MCS0	2	6	2437	106/53	17.67	18.55	21.14	30.00		0.41		21.55		36.00		Pass
HE20	MCS0	2	11	2462	Full	15.95	17.85	20.01	30.00		0.41		20.42		36.00		Pass
HE20	MCS0	2	11	2462	26/8	10.68	12.22	14.53	30.00		0.41		14.94		36.00		Pass
HE20	MCS0	2	11	2462	52/40	13.34	13.93	16.66	30.00		0.41		17.07		36.00		Pass
HE20	MCS0	2	11	2462	106/54	15.97	17.72	19.94	30.00		0.41		20.35		36.00		Pass
HE40	MCS0	2	3	2422	Full	12.14	12.72	15.45	30.00		0.41		15.86		36.00		Pass
HE40	MCS0	2	4	2427	Full	15.91	17.14	19.58	30.00		0.41		19.99		36.00		Pass
HE40	MCS0	2	5	2432	Full	16.77	17.05	19.92	30.00		0.41		20.33		36.00		Pass
HE40	MCS0	2	6	2437	Full	16.85	17.53	20.21	30.00		0.41		20.62		36.00		Pass
HE40	MCS0	2	7	2442	Full	16.22	16.89	19.58	30.00		0.41		19.99		36.00		Pass
HE40	MCS0	2	8	2447	Full	16.46	17.01	19.75	30.00		0.41		20.16		36.00		Pass
HE40	MCS0	2	9	2452	Full	13.24	13.99	16.64	30.00		0.41		17.05		36.00		Pass



3.2.6 Test Result of Average Output Power (Reporting Only)

2.4GHz Band MIMO																				
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail	Setting	
11b	1Mbps	2	1	2412	0.00	0.00	12.58	13.72	16.20	30.00		0.41		16.61		36.00		Pass	18.00	
11b	1Mbps	2	6	2437	0.00	0.00	12.98	13.21	16.11	30.00		0.41		16.52		36.00		Pass	18.00	
11b	1Mbps	2	11	2462	0.00	0.00	12.82	13.17	16.01	30.00		0.41		16.42		36.00		Pass	18.00	
11g	6Mbps	2	1	2412	0.03	0.04	10.05	11.29	13.72	30.00		0.41		14.13		36.00		Pass	15.00	
11g	6Mbps	2	6	2437	0.03	0.04	10.39	11.11	13.78	30.00		0.41		14.19		36.00		Pass	15.00	
11g	6Mbps	2	11	2462	0.03	0.04	10.01	11.01	13.55	30.00		0.41		13.96		36.00		Pass	15.00	
HT20	MCS0	2	1	2412	0.05	0.03	7.49	9.09	11.37	30.00		0.41		11.78		36.00		Pass	13.00	
HT20	MCS0	2	6	2437	0.05	0.03	9.90	10.93	13.46	30.00		0.41		13.87		36.00		Pass	15.00	
HT20	MCS0	2	11	2462	0.05	0.03	7.28	9.38	11.47	30.00		0.41		11.88		36.00		Pass	13.00	
HT40	MCS0	2	3	2422	0.08	0.08	4.81	5.53	8.20	30.00		0.41		8.61		36.00		Pass	9.00	
HT40	MCS0	2	4	2427	0.08	0.08	8.41	9.83	12.19	30.00		0.41		12.60		36.00		Pass	13.00	
HT40	MCS0	2	5	2432	0.08	0.08	9.06	9.52	12.31	30.00		0.41		12.72		36.00		Pass	13.50	
HT40	MCS0	2	6	2437	0.08	0.08	9.90	10.10	13.01	30.00		0.41		13.42		36.00		Pass	14.00	
HT40	MCS0	2	7	2442	0.08	0.08	9.16	9.44	12.31	30.00		0.41		12.72		36.00		Pass	13.50	
HT40	MCS0	2	8	2447	0.08	0.08	9.21	9.63	12.44	30.00		0.41		12.85		36.00		Pass	13.50	
HT40	MCS0	2	9	2452	0.08	0.08	6.16	6.56	9.37	30.00		0.41		9.78		36.00		Pass	10.00	



2.4GHz Band MIMO																					
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor		Average			Conducted		DG		EIRP		EIRP		Pass /Fail	Setting	
						(dB)		Conducted Power with duty factor			Power Limit		(dBi)		Power (dBm)		Power Limit (dBm)				
								Ant3	Ant4	SUM	Ant3	Ant4			Ant3	Ant4	Ant3	Ant4			
HE20	MCS0	2	1	2412	Full	0.00	0.00	7.51	9.12	11.40	30.00		0.41		11.81		36.00		Pass	13.00	
HE20	MCS0	2	1	2412	26/0	0.00	0.00	0.49	1.55	4.06	30.00		0.41		4.47		36.00		Pass	5.50	
HE20	MCS0	2	1	2412	52/37	0.00	0.00	2.43	3.52	6.02	30.00		0.41		6.43		36.00		Pass	7.50	
HE20	MCS0	2	1	2412	106/53	0.00	0.00	5.14	6.47	8.87	30.00		0.41		9.28		36.00		Pass	10.00	
HE20	MCS0	2	6	2437	Full	0.00	0.00	10.32	10.91	13.64	30.00		0.41		14.05		36.00		Pass	15.00	
HE20	MCS0	2	6	2437	26/0	0.00	0.00	1.88	2.91	5.44	30.00		0.41		5.85		36.00		Pass	7.00	
HE20	MCS0	2	6	2437	52/37	0.00	0.00	4.57	5.16	7.89	30.00		0.41		8.30		36.00		Pass	9.50	
HE20	MCS0	2	6	2437	106/53	0.00	0.00	7.37	8.26	10.85	30.00		0.41		11.26		36.00		Pass	12.00	
HE20	MCS0	2	11	2462	Full	0.00	0.00	7.36	9.63	11.65	30.00		0.41		12.06		36.00		Pass	13.00	
HE20	MCS0	2	11	2462	26/8	0.00	0.00	0.09	0.70	3.42	30.00		0.41		3.83		36.00		Pass	6.00	
HE20	MCS0	2	11	2462	52/40	0.00	0.00	2.39	2.85	5.64	30.00		0.41		6.05		36.00		Pass	8.00	
HE20	MCS0	2	11	2462	106/54	0.00	0.00	5.42	6.08	8.77	30.00		0.41		9.18		36.00		Pass	10.50	
HE40	MCS0	2	3	2422	Full	0.00	0.00	4.91	5.61	8.28	30.00		0.41		8.69		36.00		Pass	9.00	
HE40	MCS0	2	4	2427	Full	0.00	0.00	8.46	9.92	12.26	30.00		0.41		12.67		36.00		Pass	13.00	
HE40	MCS0	2	5	2432	Full	0.00	0.00	9.13	9.57	12.37	30.00		0.41		12.78		36.00		Pass	13.50	
HE40	MCS0	2	6	2437	Full	0.00	0.00	9.94	10.14	13.05	30.00		0.41		13.46		36.00		Pass	14.00	
HE40	MCS0	2	7	2442	Full	0.00	0.00	9.21	9.48	12.36	30.00		0.41		12.77		36.00		Pass	13.50	
HE40	MCS0	2	8	2447	Full	0.00	0.00	9.28	9.69	12.50	30.00		0.41		12.91		36.00		Pass	13.50	
HE40	MCS0	2	9	2452	Full	0.00	0.00	6.25	6.60	9.44	30.00		0.41		9.85		36.00		Pass	10.00	

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

3.3.2 Measuring Instruments

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

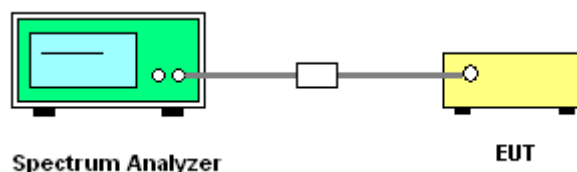
3.3.3 Test Procedures

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

Method (a): Measure and sum the spectra across the outputs.

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

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.

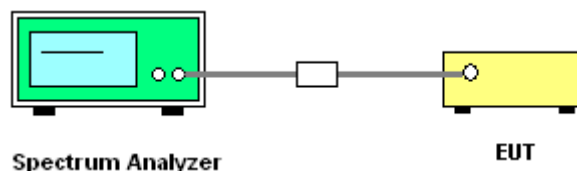
3.4.2 Measuring Instruments

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

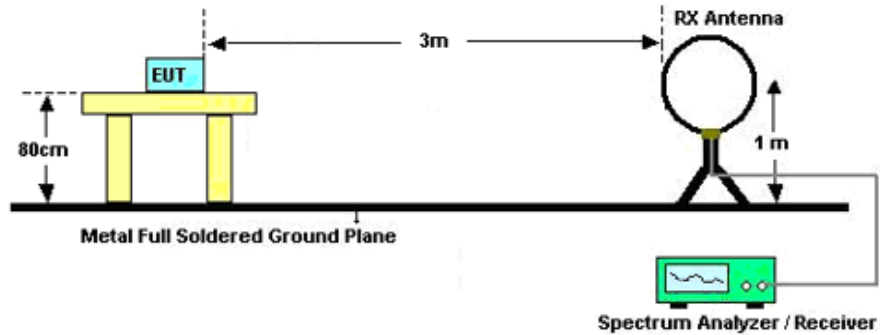
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better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

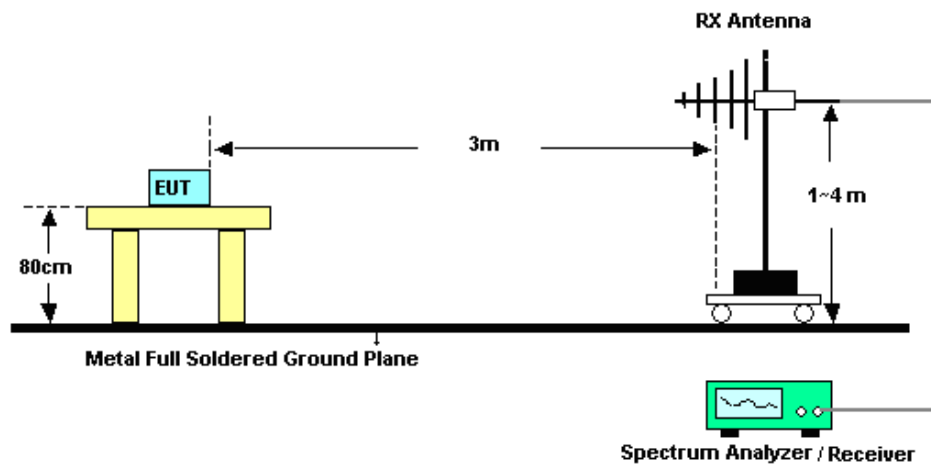
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

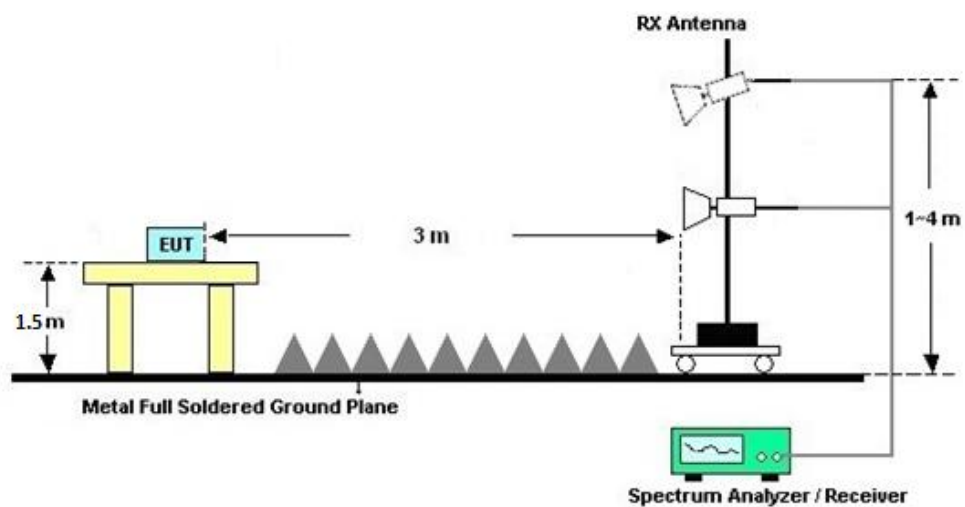
For radiated emissions below 30MHz



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.

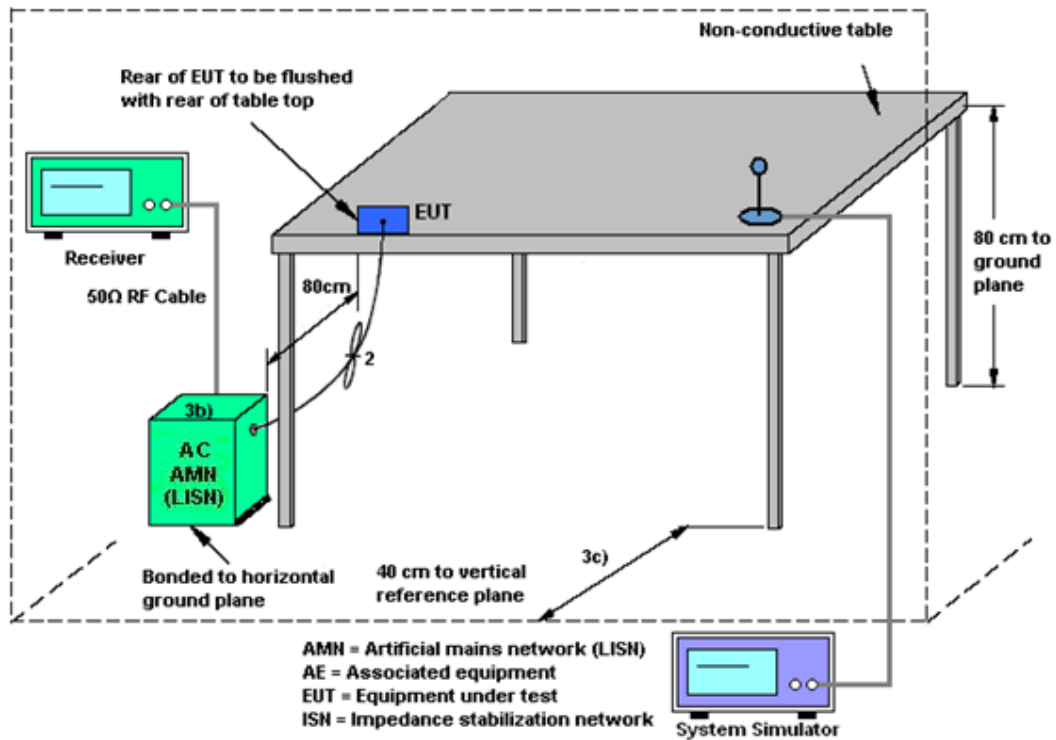
3.6.2 Measuring Instruments

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

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 3 (dBi)	Ant. 4 (dBi)				
2.4 GHz	0.41	-1.39	0.41	2.57	0.00	0.00

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Feb. 05, 2025	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	Feb. 05, 2025	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Feb. 05, 2025	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Feb. 05, 2025	Oct. 08, 2025	Conduction (CO01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Oct. 15, 2024~ Feb. 11, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Oct. 15, 2024~ Feb. 11, 2025	Jan. 01, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025		Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Oct. 15, 2024~ Feb. 11, 2025	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025		Jan. 01, 2026	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 14, 2024	Jan. 02, 2025~ Jan. 10, 2025	Oct. 13, 2025	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 13	10Hz~44GHz	Jul. 03, 2024	Jan. 02, 2025~ Jan. 10, 2025	Jul. 02, 2025	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Jan. 02, 2025~ Jan. 10, 2025	Dec. 27, 2025	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May. 09, 2024	Jan. 02, 2025~ Jan. 10, 2025	May. 08, 2025	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-147 4	1GHz~18GHz	Jul. 07, 2023	Jan. 02, 2025~ Jan. 10, 2025	Jul. 06, 2025	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 04, 2024	Jan. 02, 2025~ Jan. 10, 2025	Jul. 03, 2025	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2024	Jan. 02, 2025~ Jan. 10, 2025	Oct. 17, 2025	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	Jan. 02, 2025~ Jan. 10, 2025	Oct. 13, 2025	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Jan. 02, 2025~ Jan. 10, 2025	Jul. 02, 2025	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY572801 36	500MHz~26.5GHz	Jul. 03, 2024	Jan. 02, 2025~ Jan. 10, 2025	Jul. 02, 2025	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F11905001 9	N/A	Oct. 14, 2024	Jan. 02, 2025~ Jan. 10, 2025	Oct. 13, 2025	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jan. 02, 2025~ Jan. 10, 2025	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jan. 02, 2025~ Jan. 10, 2025	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Conducted Power Spectral Density	±0.90 dB
Frequency	±0.04 Hz

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

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

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

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

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

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

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

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

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

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

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



Appendix A. Conducted Test Results



Ambient Condition: 25 °C, 45 %RH

Test Date: 2024.10.15~2025.2.11

Test Engineer: Jiang Jun

DTS Bandwidth

Test Result

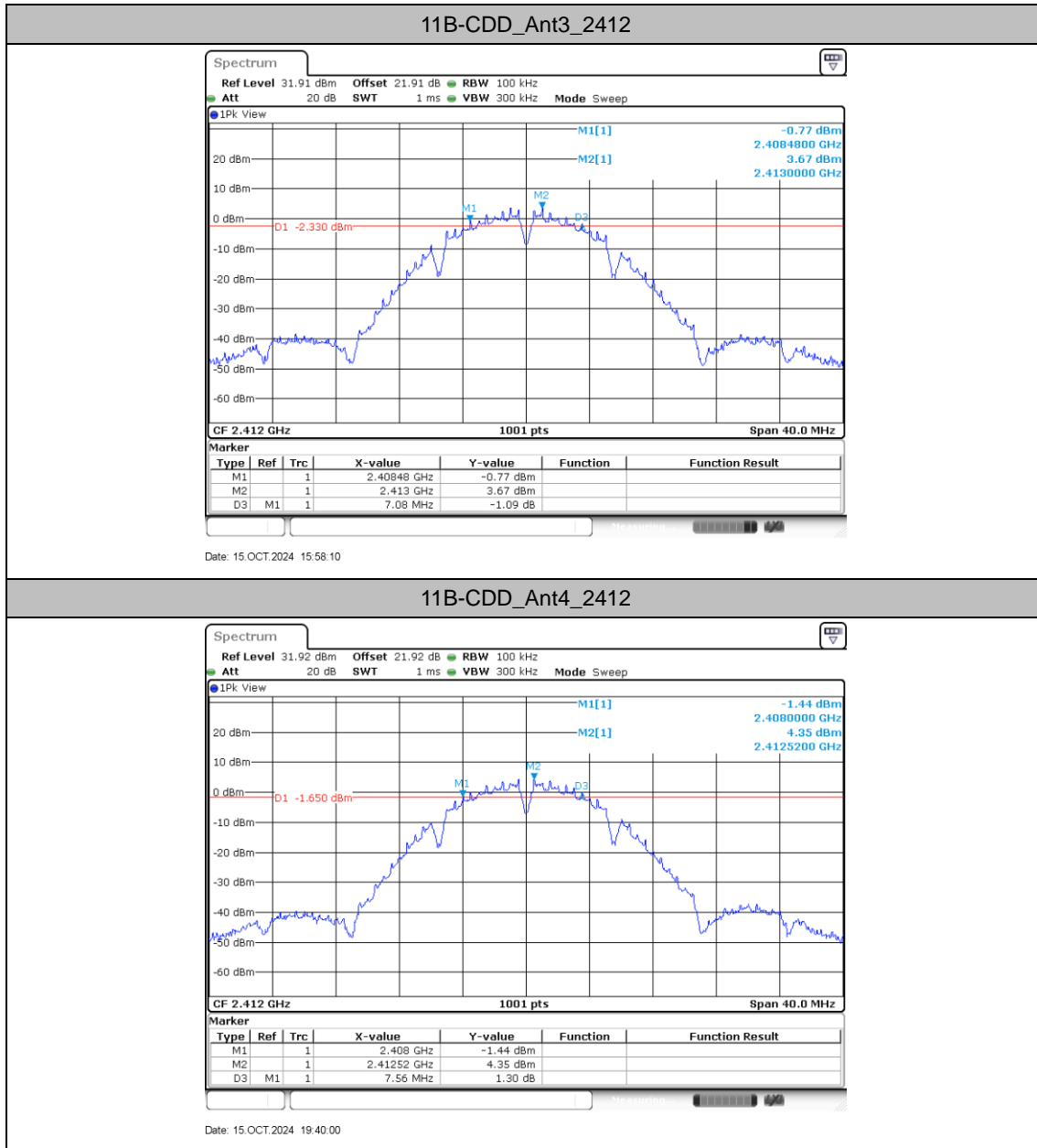
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant3	2412	7.08	2408.48	2415.56	0.5	PASS
	Ant4	2412	7.56	2408.00	2415.56	0.5	PASS
	Ant3	2437	7.12	2433.44	2440.56	0.5	PASS
	Ant4	2437	7.12	2433.44	2440.56	0.5	PASS
	Ant3	2462	7.12	2458.44	2465.56	0.5	PASS
	Ant4	2462	7.12	2458.44	2465.56	0.5	PASS
11G-CDD	Ant3	2412	15.72	2403.84	2419.56	0.5	PASS
	Ant4	2412	15.08	2404.44	2419.52	0.5	PASS
	Ant3	2437	14.20	2430.72	2444.92	0.5	PASS
	Ant4	2437	15.28	2429.28	2444.56	0.5	PASS
	Ant3	2462	13.16	2454.24	2467.40	0.5	PASS
	Ant4	2462	13.84	2455.72	2469.56	0.5	PASS
11N20MIMO	Ant3	2412	17.16	2403.24	2420.40	0.5	PASS
	Ant4	2412	15.72	2404.44	2420.16	0.5	PASS
	Ant3	2437	14.44	2430.68	2445.12	0.5	PASS
	Ant4	2437	15.08	2429.48	2444.56	0.5	PASS
	Ant3	2462	15.96	2453.60	2469.56	0.5	PASS
	Ant4	2462	15.12	2454.44	2469.56	0.5	PASS
11N40MIMO	Ant3	2422	35.36	2404.24	2439.60	0.5	PASS
	Ant4	2422	32.56	2404.48	2437.04	0.5	PASS
	Ant3	2427	35.36	2409.24	2444.60	0.5	PASS
	Ant4	2427	35.04	2409.48	2444.52	0.5	PASS
	Ant3	2432	35.12	2414.48	2449.60	0.5	PASS
	Ant4	2432	35.04	2414.48	2449.52	0.5	PASS
	Ant3	2437	35.28	2419.48	2454.76	0.5	PASS
	Ant4	2437	35.36	2419.24	2454.60	0.5	PASS
	Ant3	2442	35.12	2424.48	2459.60	0.5	PASS
	Ant4	2442	35.12	2424.48	2459.60	0.5	PASS
	Ant3	2447	35.12	2429.48	2464.60	0.5	PASS
	Ant4	2447	35.12	2429.48	2464.60	0.5	PASS
	Ant3	2452	35.12	2434.48	2469.60	0.5	PASS
	Ant4	2452	35.12	2434.48	2469.60	0.5	PASS

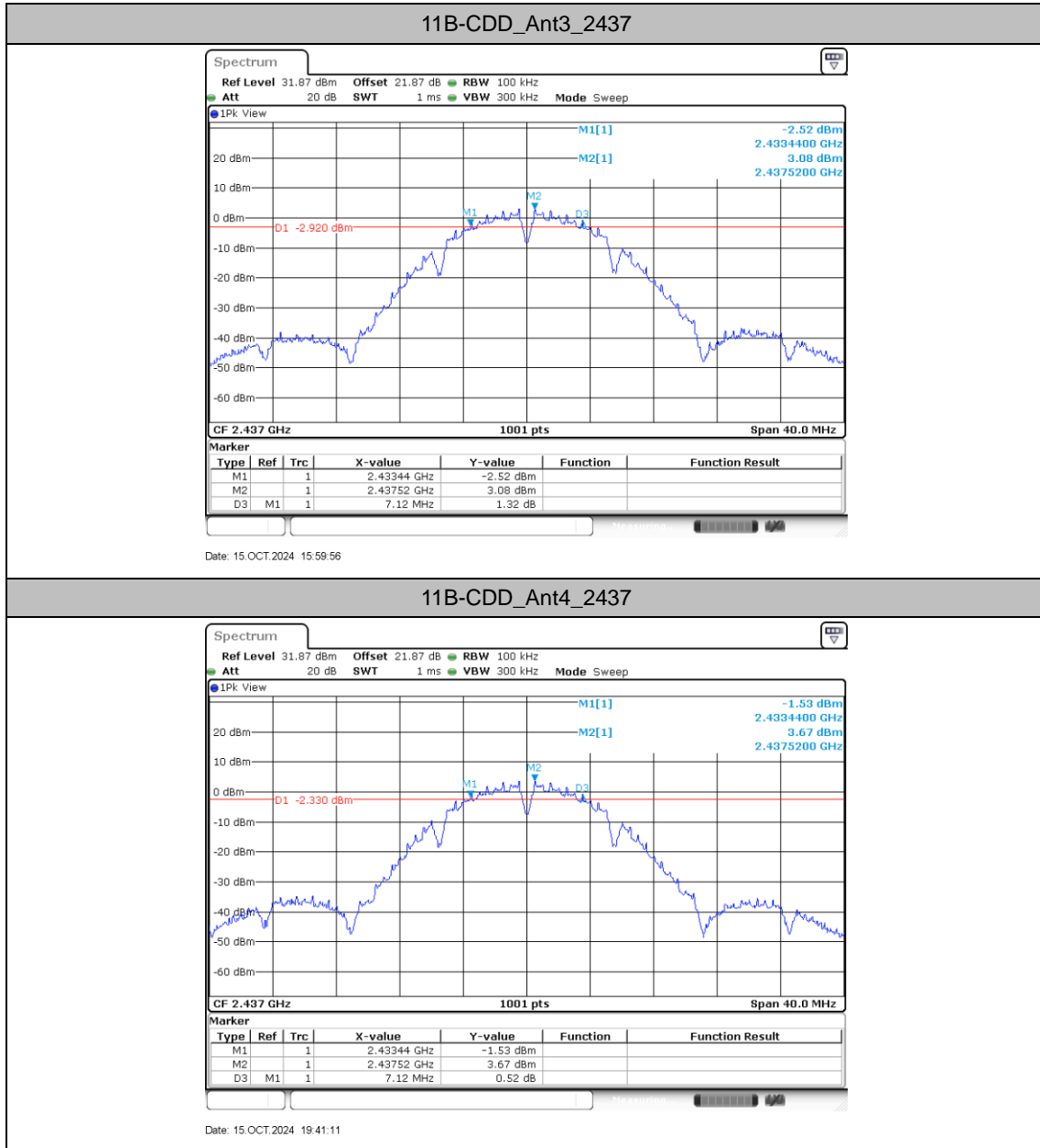


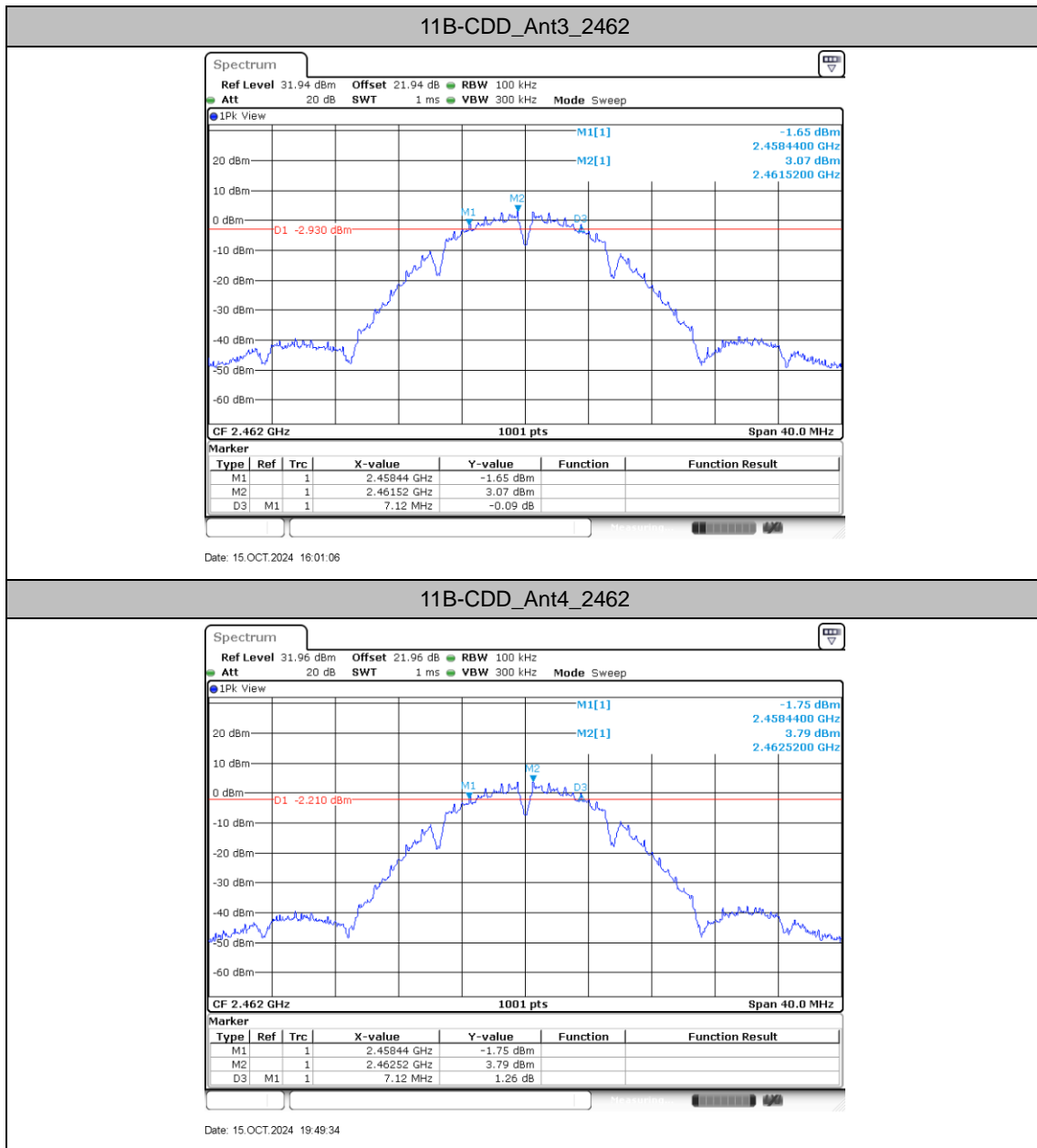
	Ant4	2452	35.12	2434.48	2469.60	0.5	PASS
11AX20MIMO	Ant3	2412	15.48	2402.76	2418.24	0.5	PASS
	Ant4	2412	16.88	2403.88	2420.76	0.5	PASS
	Ant3	2437	15.36	2430.72	2446.08	0.5	PASS
	Ant4	2437	18.08	2427.72	2445.80	0.5	PASS
	Ant3	2462	17.16	2452.76	2469.92	0.5	PASS
	Ant4	2462	14.08	2455.72	2469.80	0.5	PASS
11AX40MIMO	Ant3	2422	37.36	2403.04	2440.40	0.5	PASS
	Ant4	2422	32.56	2404.48	2437.04	0.5	PASS
	Ant3	2427	37.84	2408.12	2445.96	0.5	PASS
	Ant4	2427	35.76	2408.84	2444.60	0.5	PASS
	Ant3	2432	37.44	2413.12	2450.56	0.5	PASS
	Ant4	2432	36.08	2413.44	2449.52	0.5	PASS
	Ant3	2437	36.24	2419.48	2455.72	0.5	PASS
	Ant4	2437	36.64	2418.36	2455.00	0.5	PASS
	Ant3	2442	36.00	2424.48	2460.48	0.5	PASS
	Ant4	2442	37.36	2423.28	2460.64	0.5	PASS
	Ant3	2447	34.08	2430.68	2464.76	0.5	PASS
	Ant4	2447	37.04	2428.60	2465.64	0.5	PASS
	Ant3	2452	35.12	2434.48	2469.60	0.5	PASS
	Ant4	2452	36.56	2434.08	2470.64	0.5	PASS

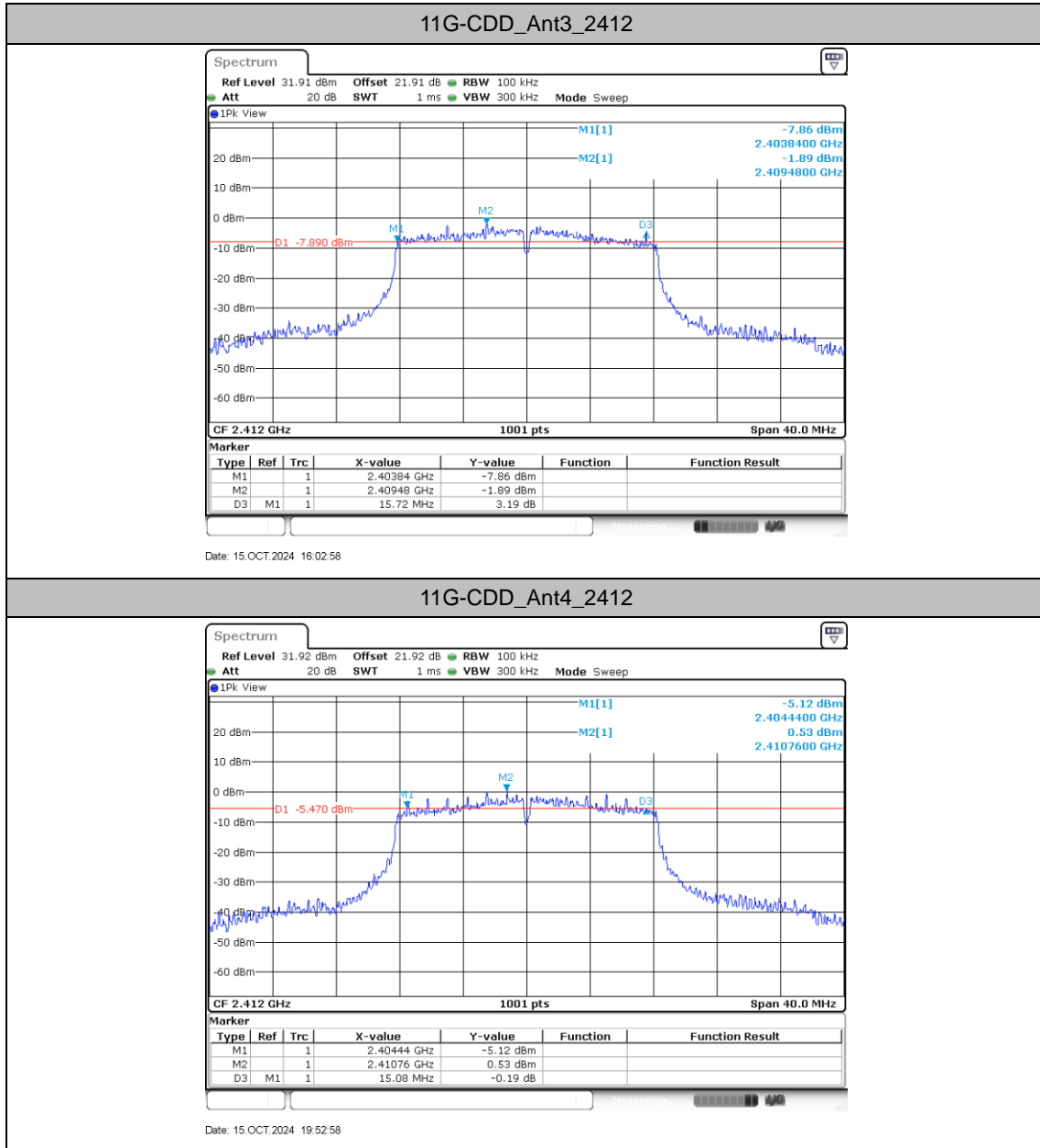


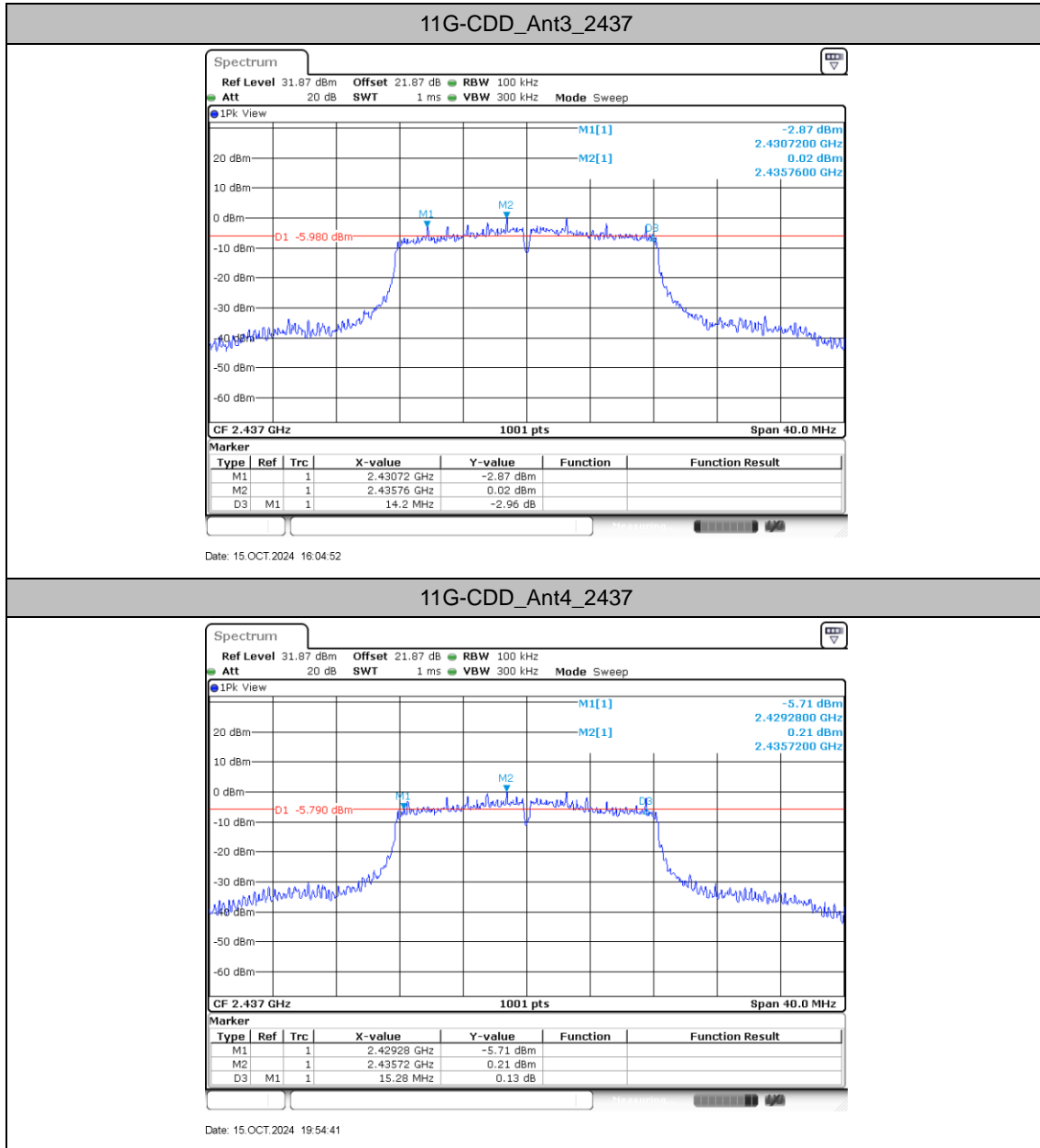
Test Graphs

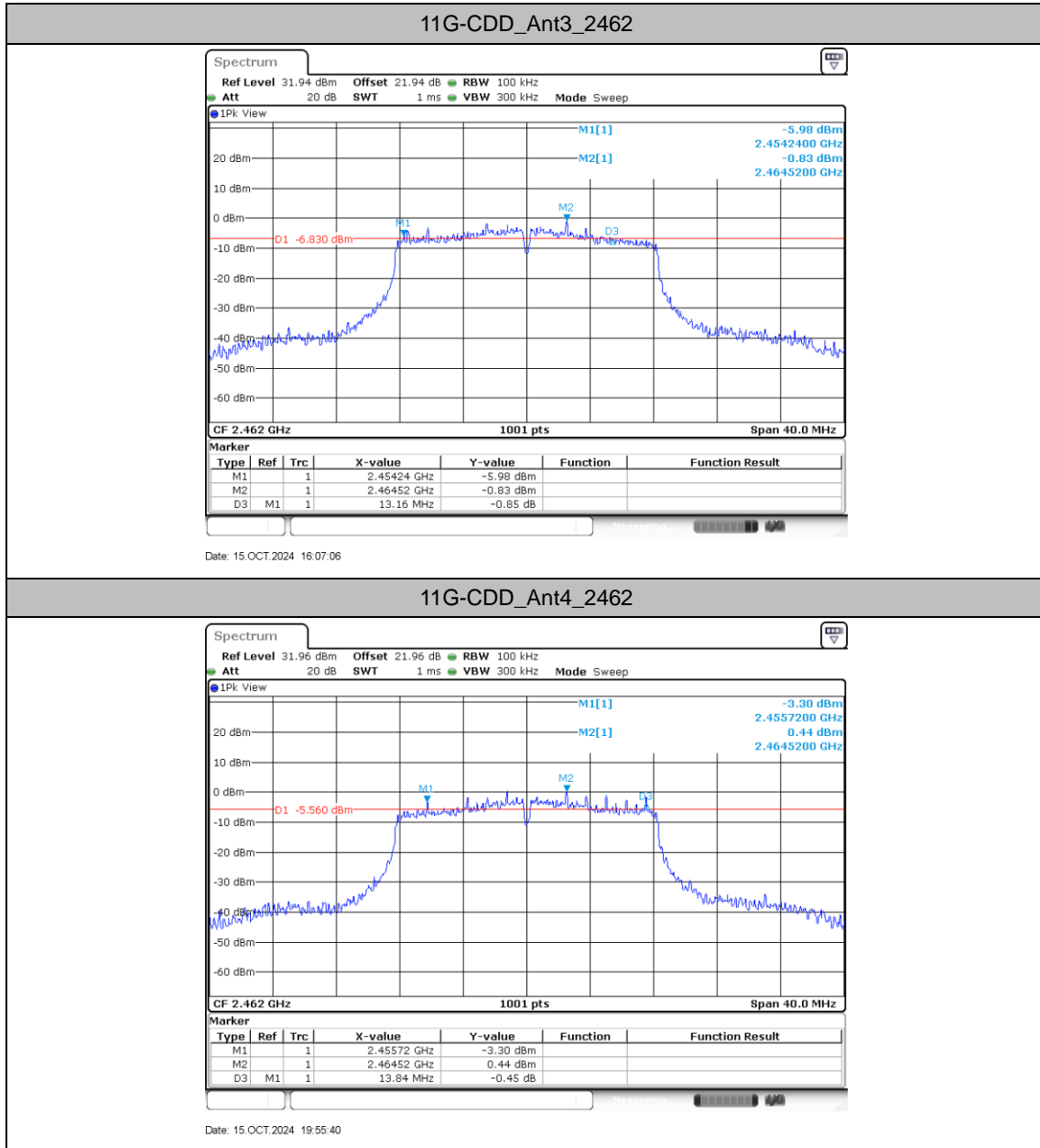


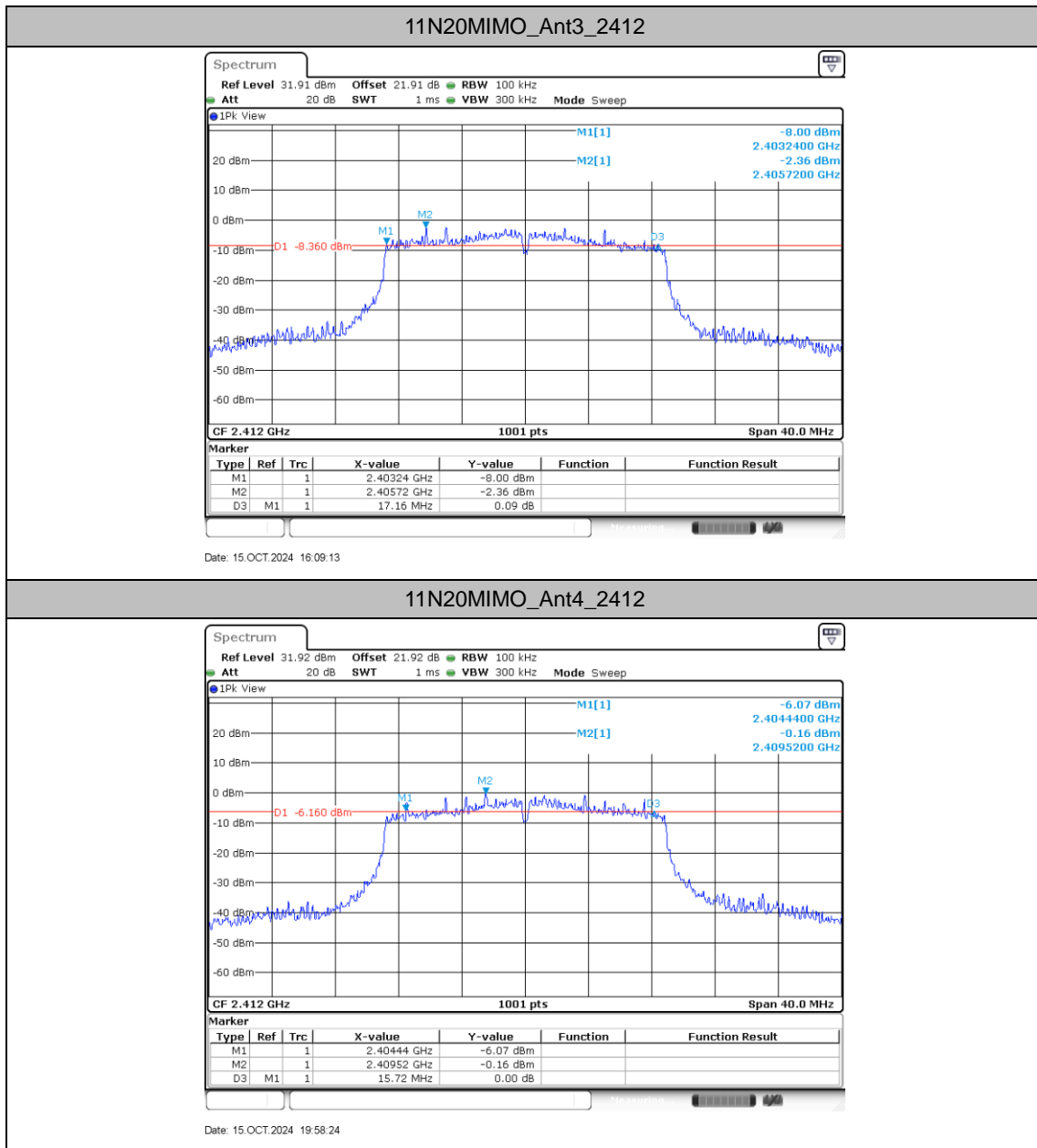


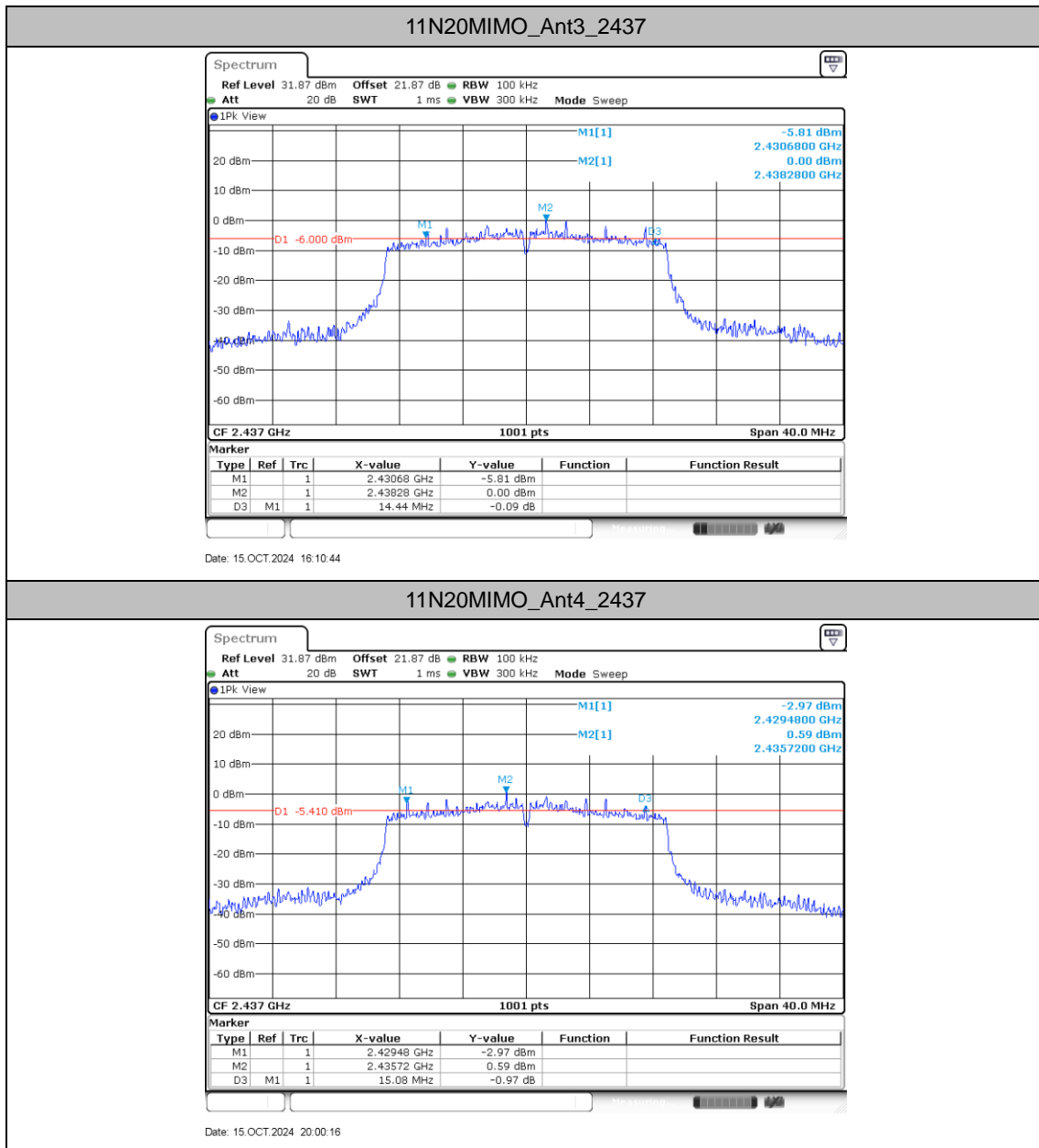


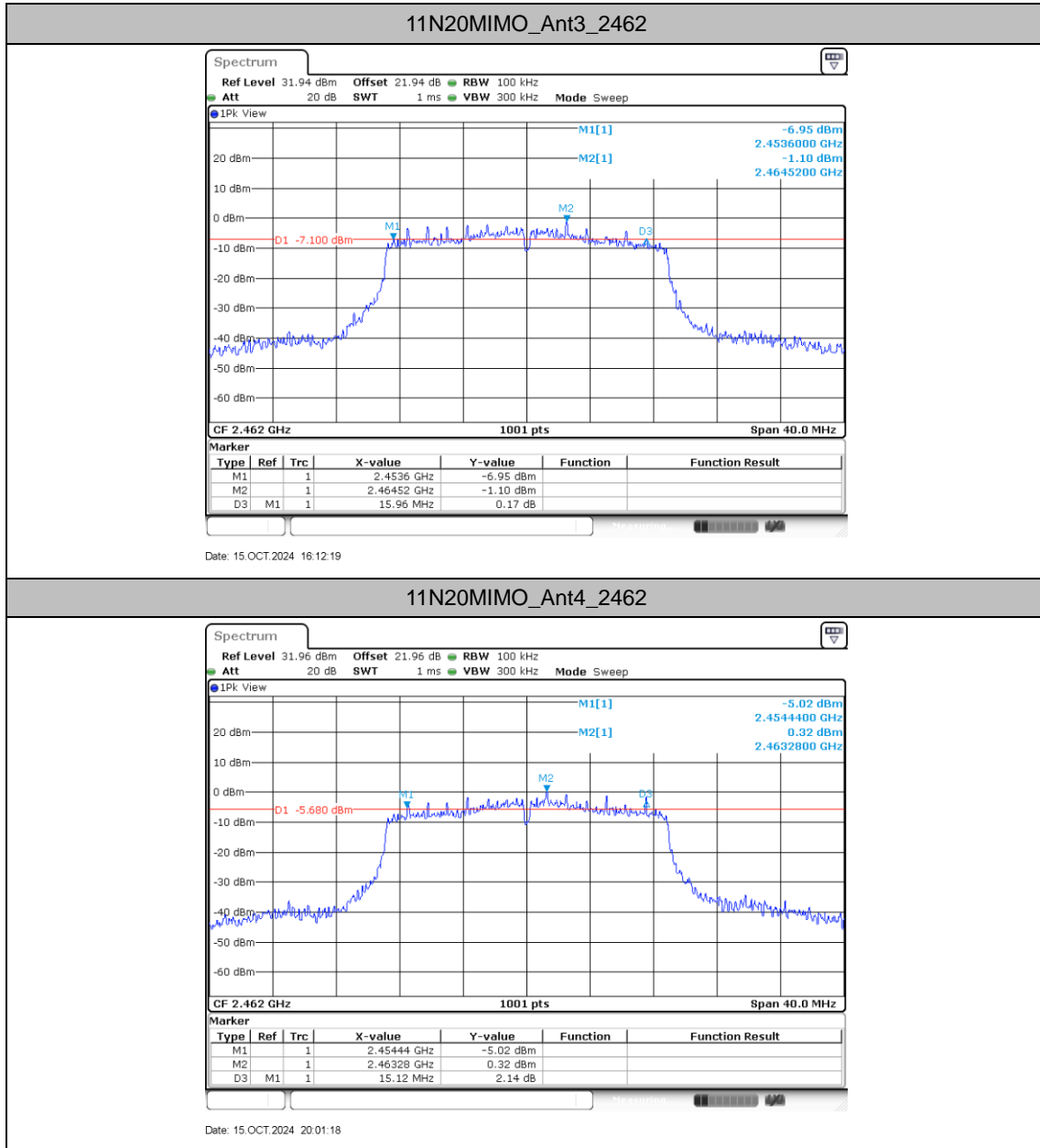


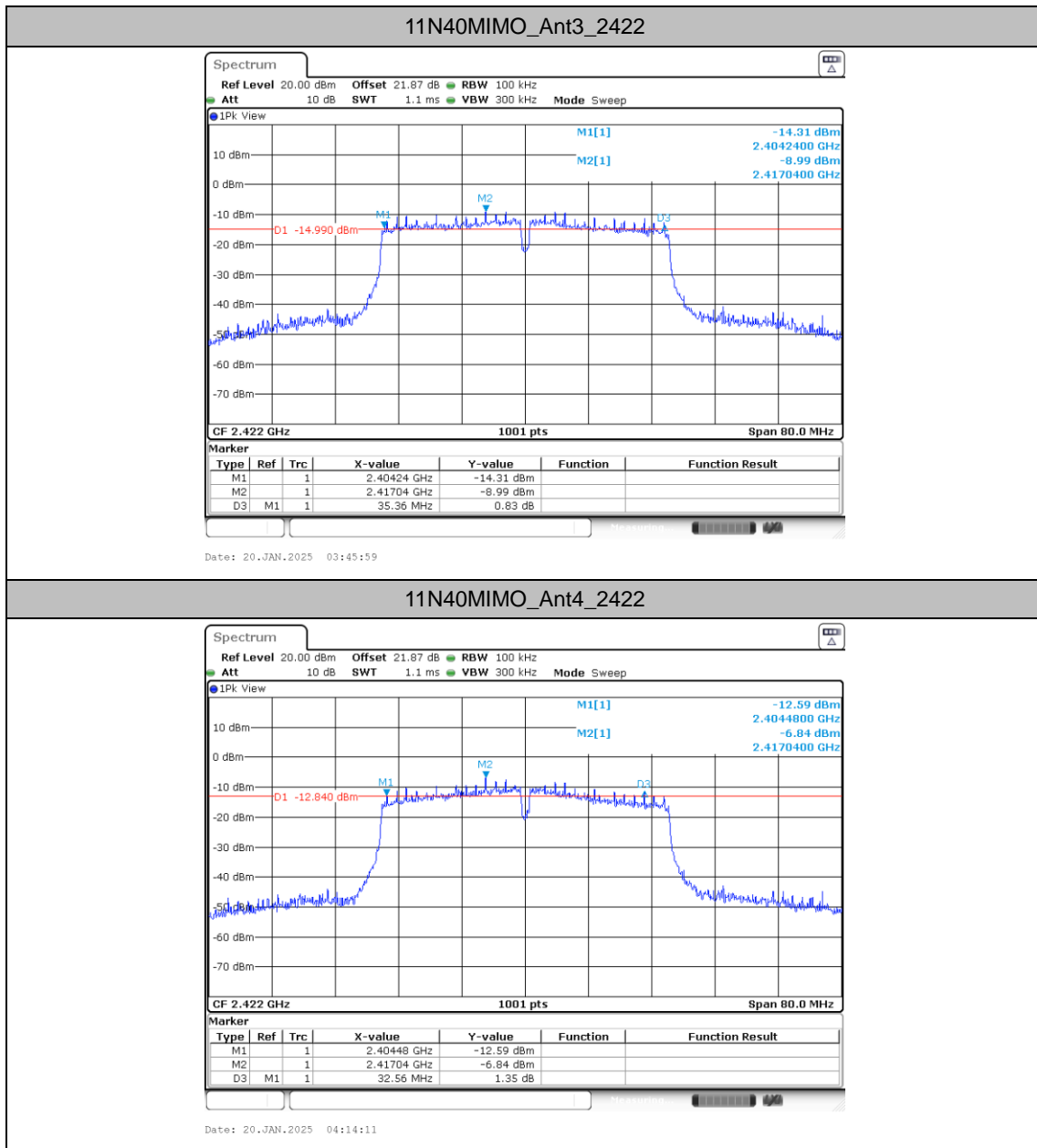


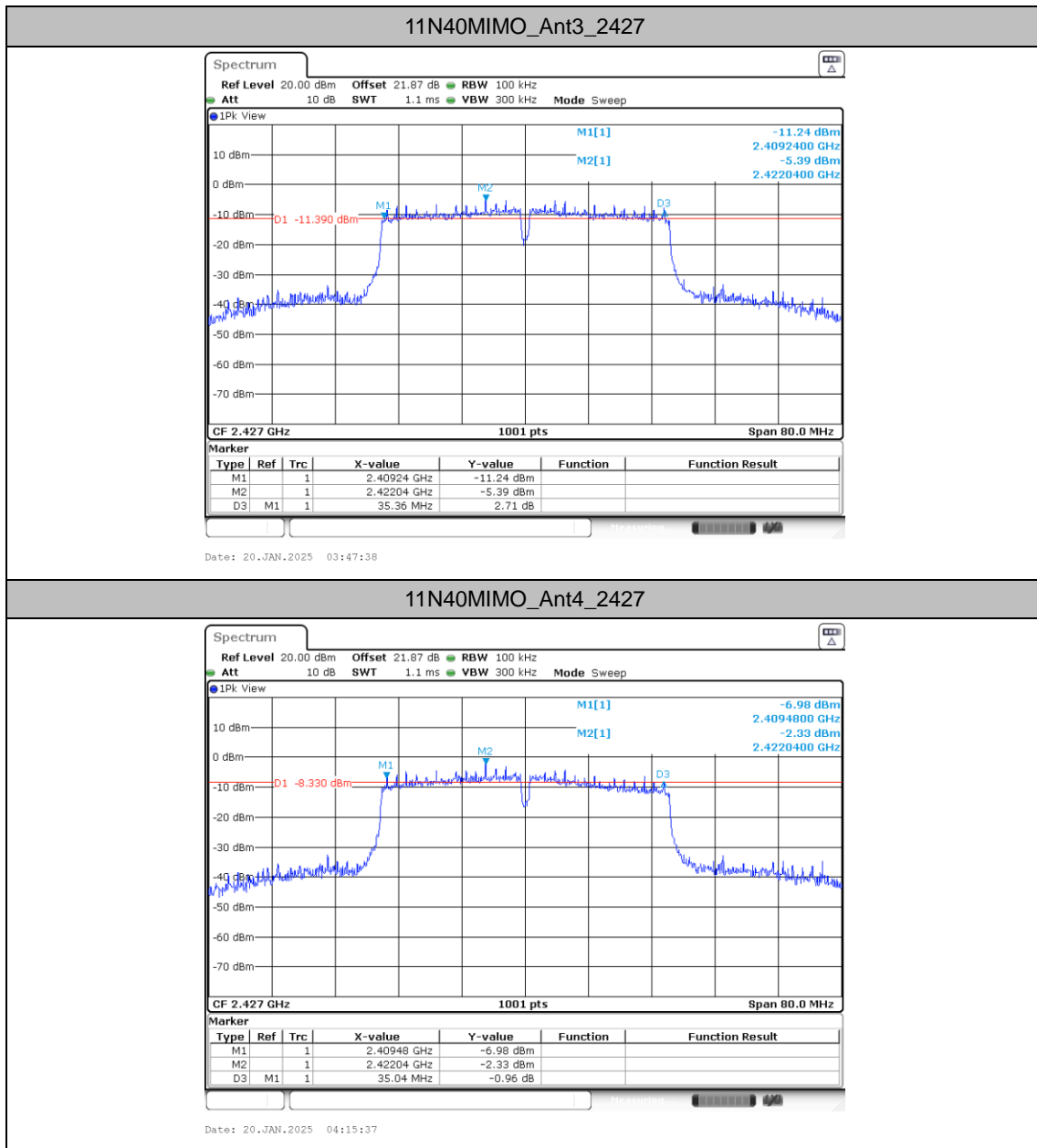


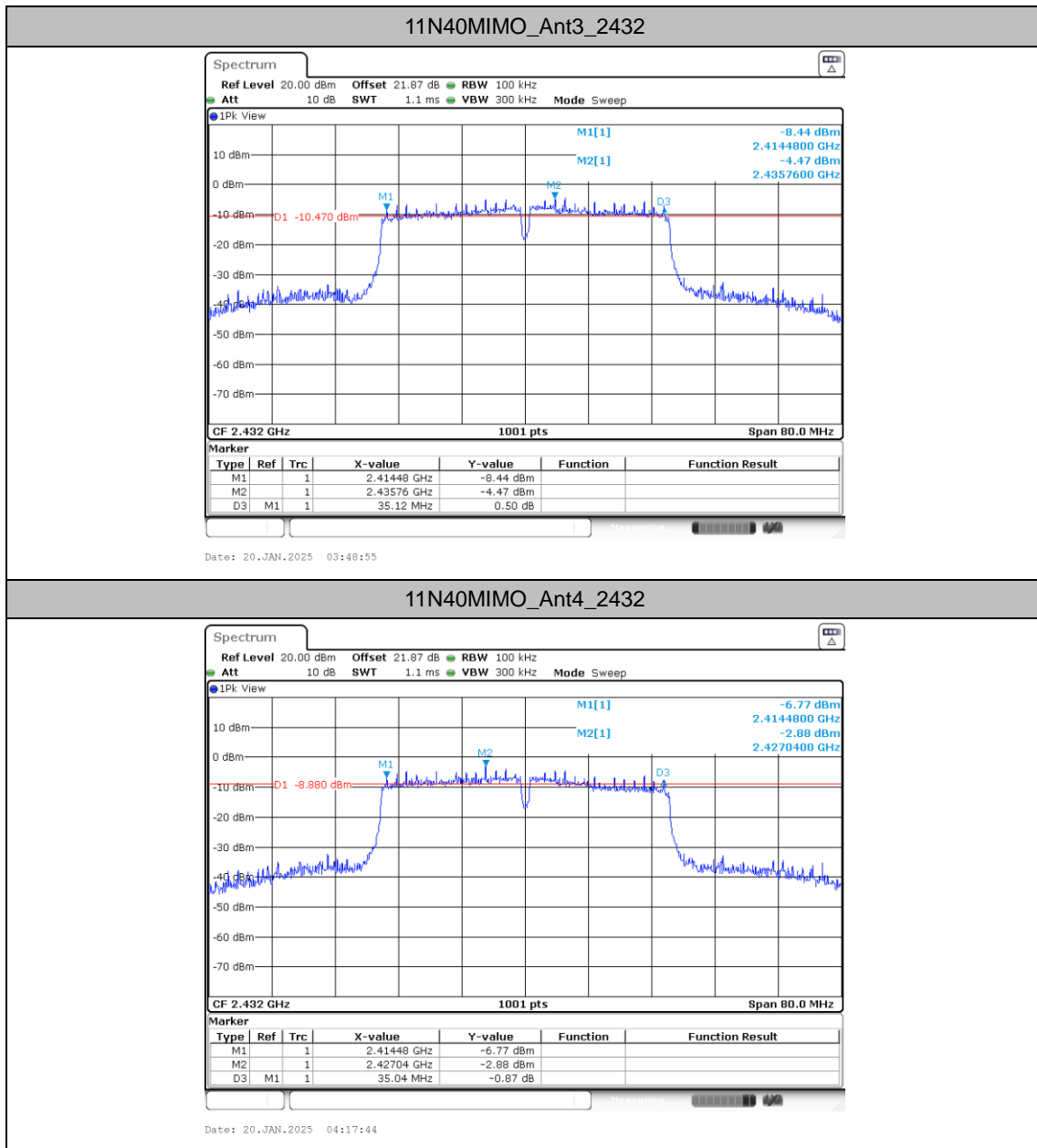


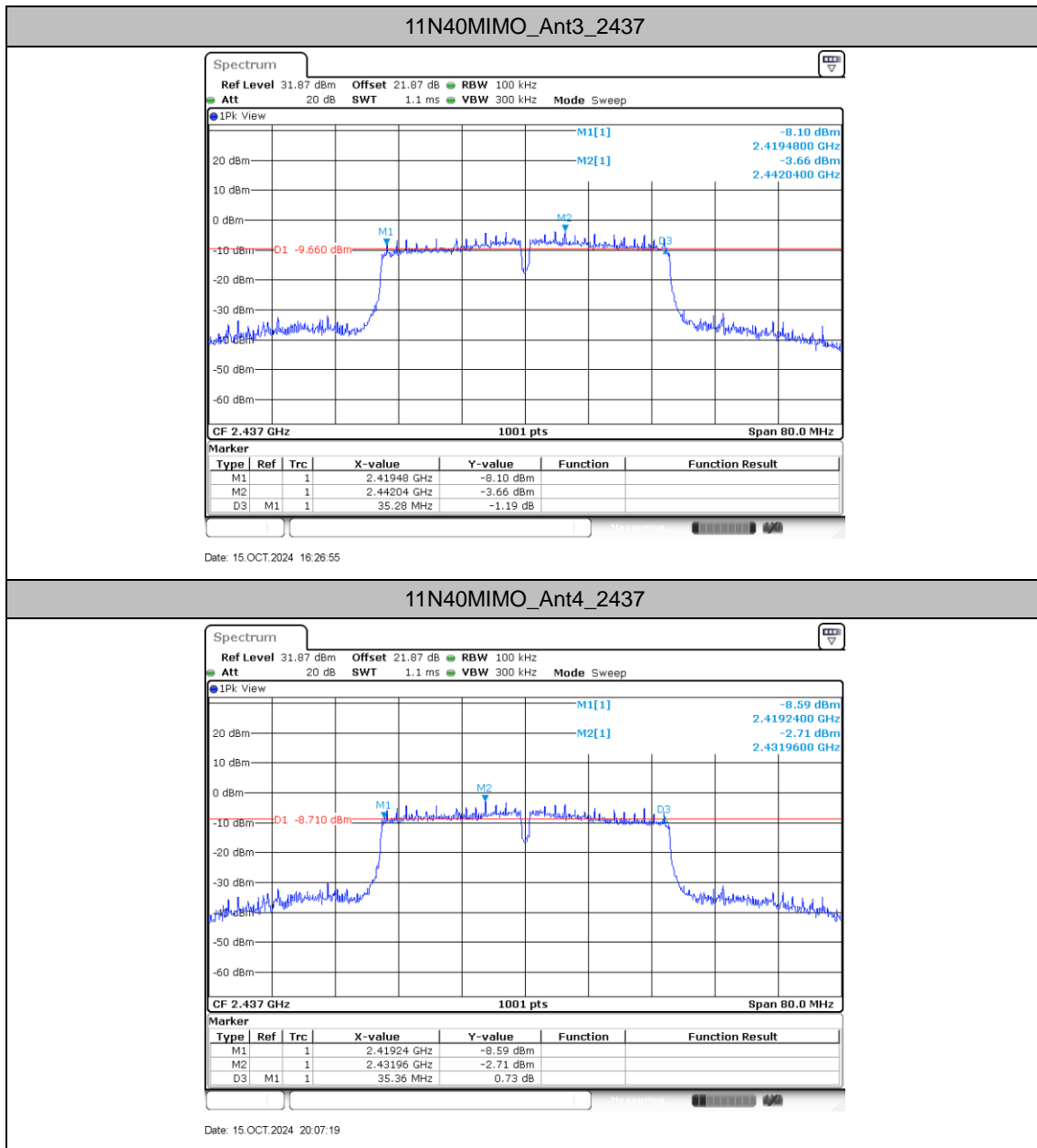


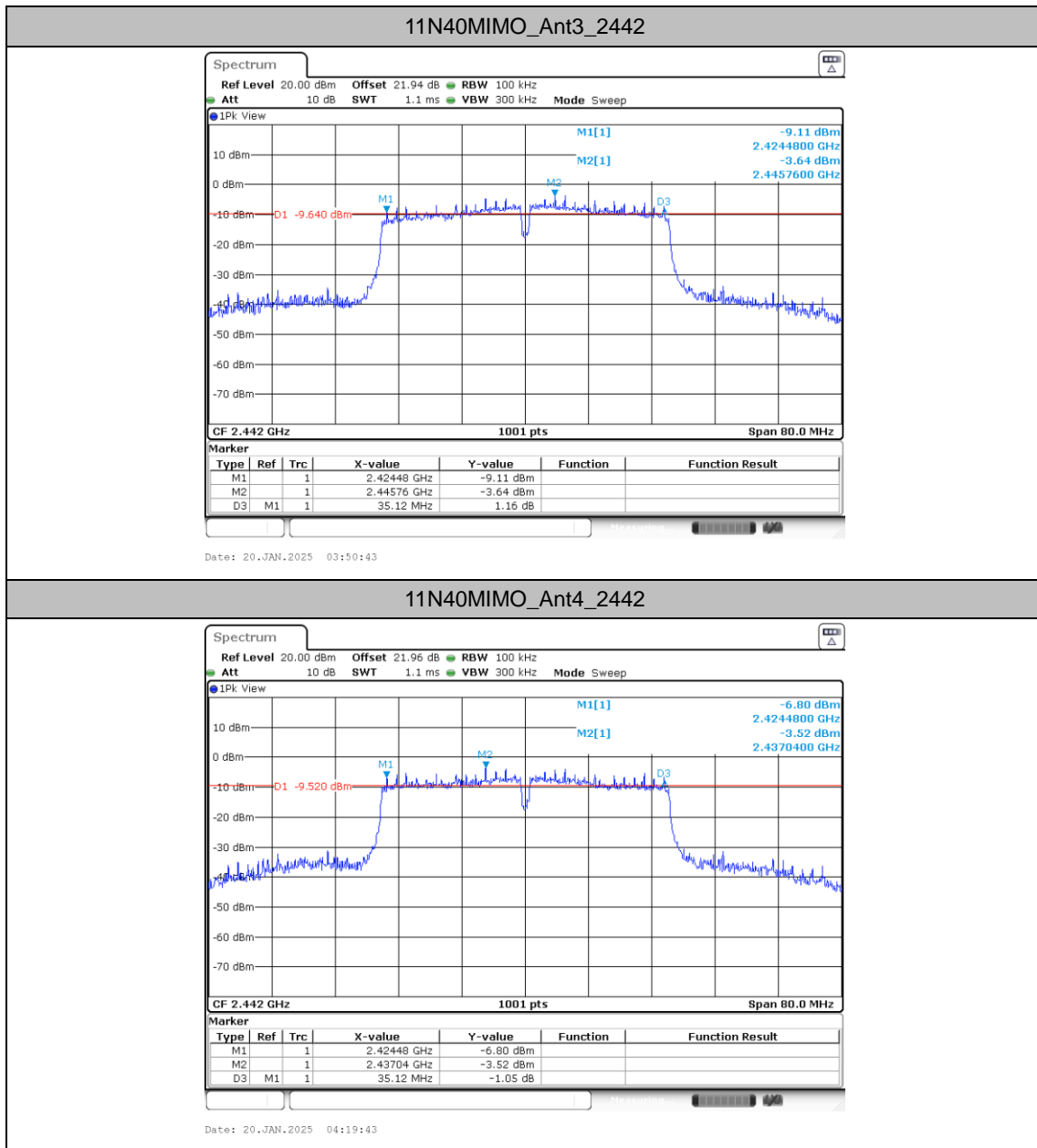


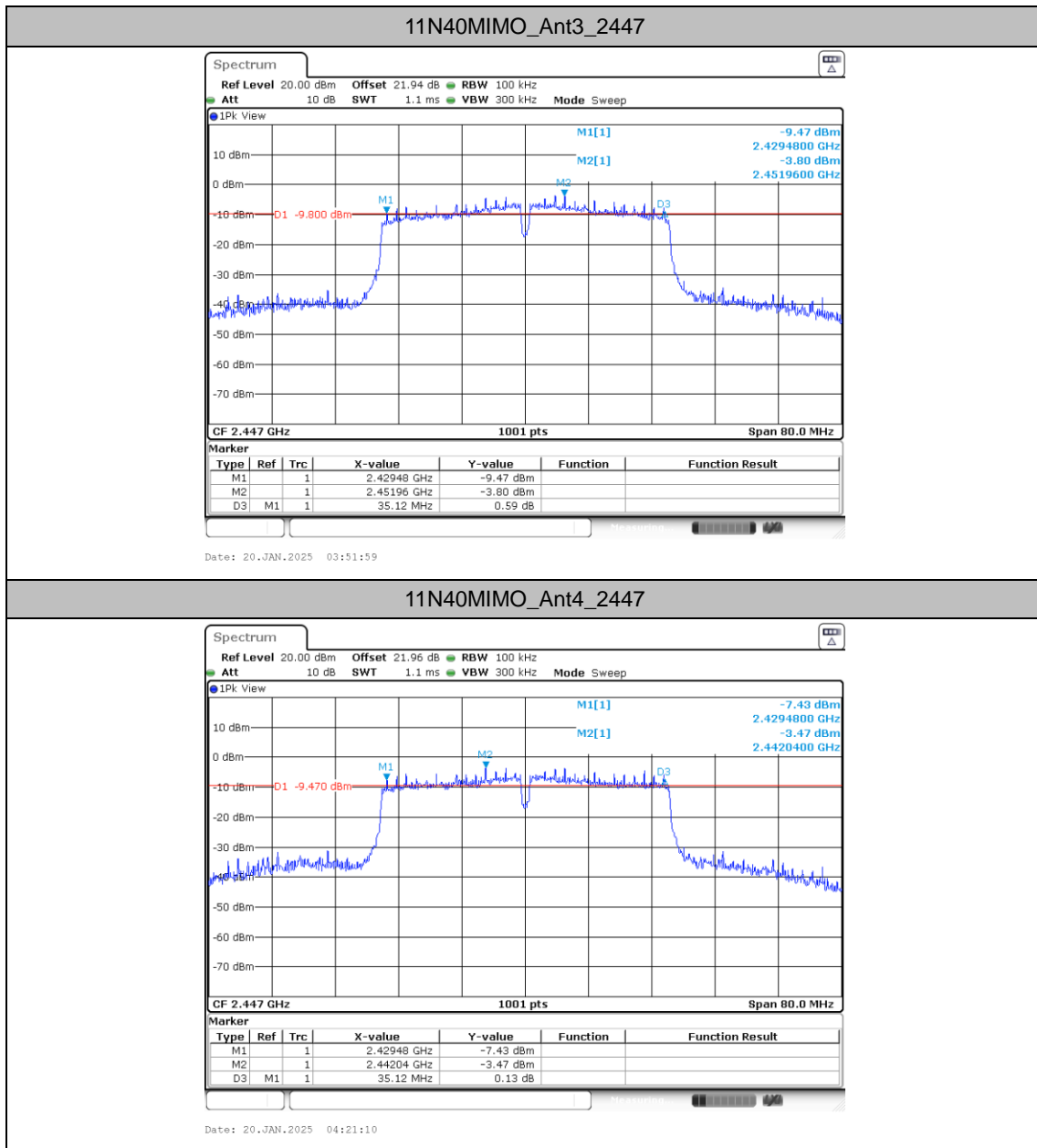


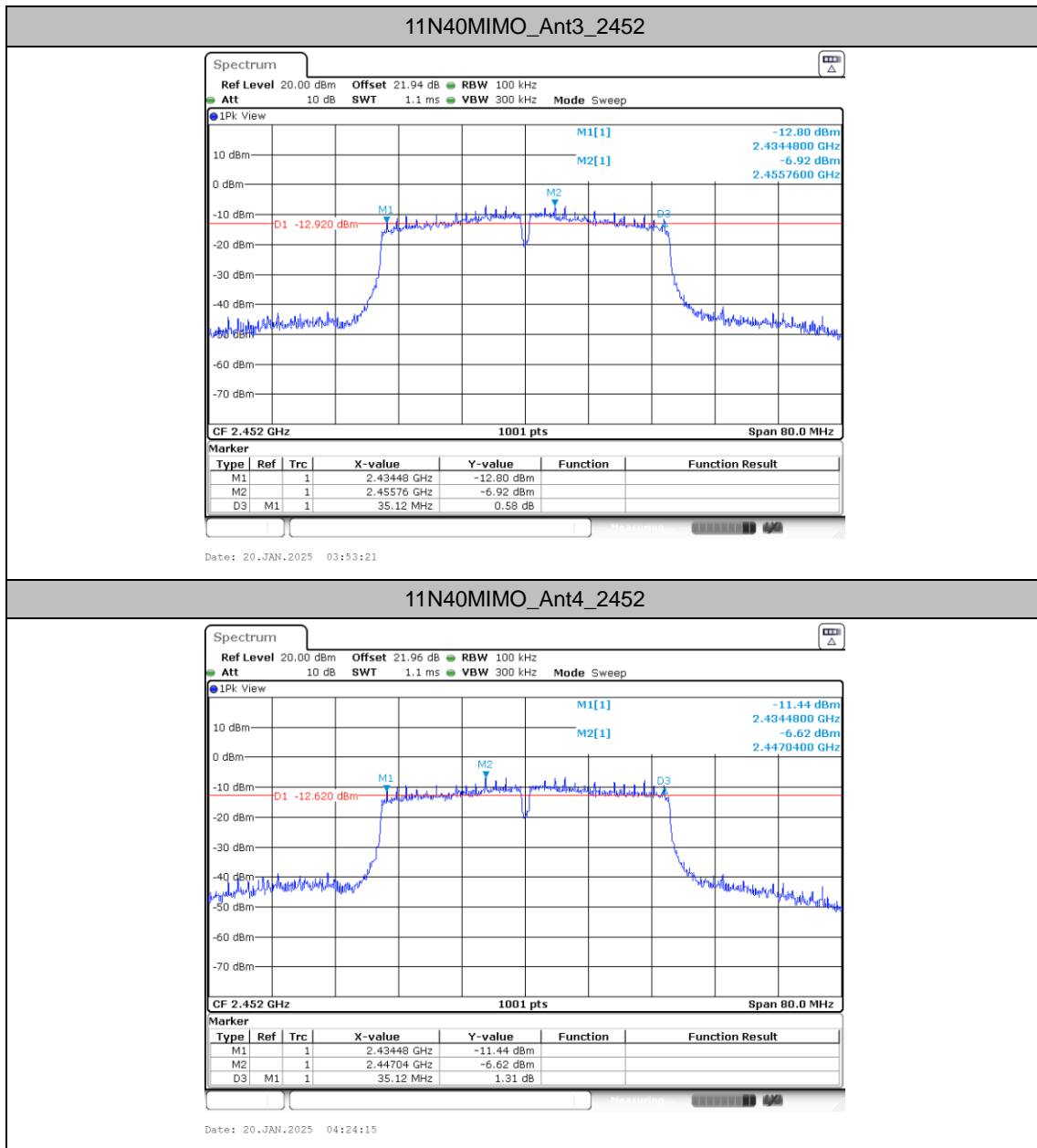


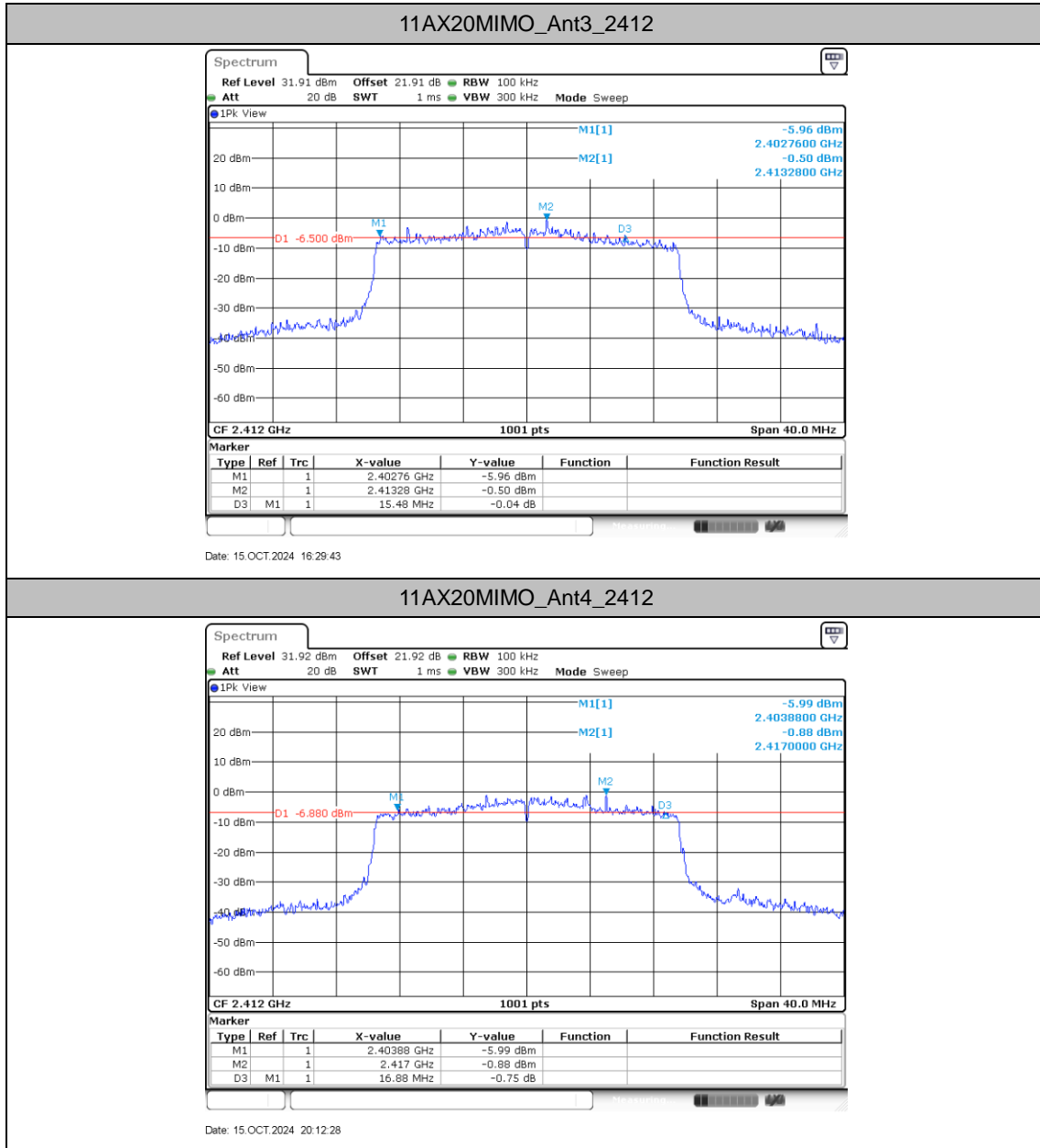


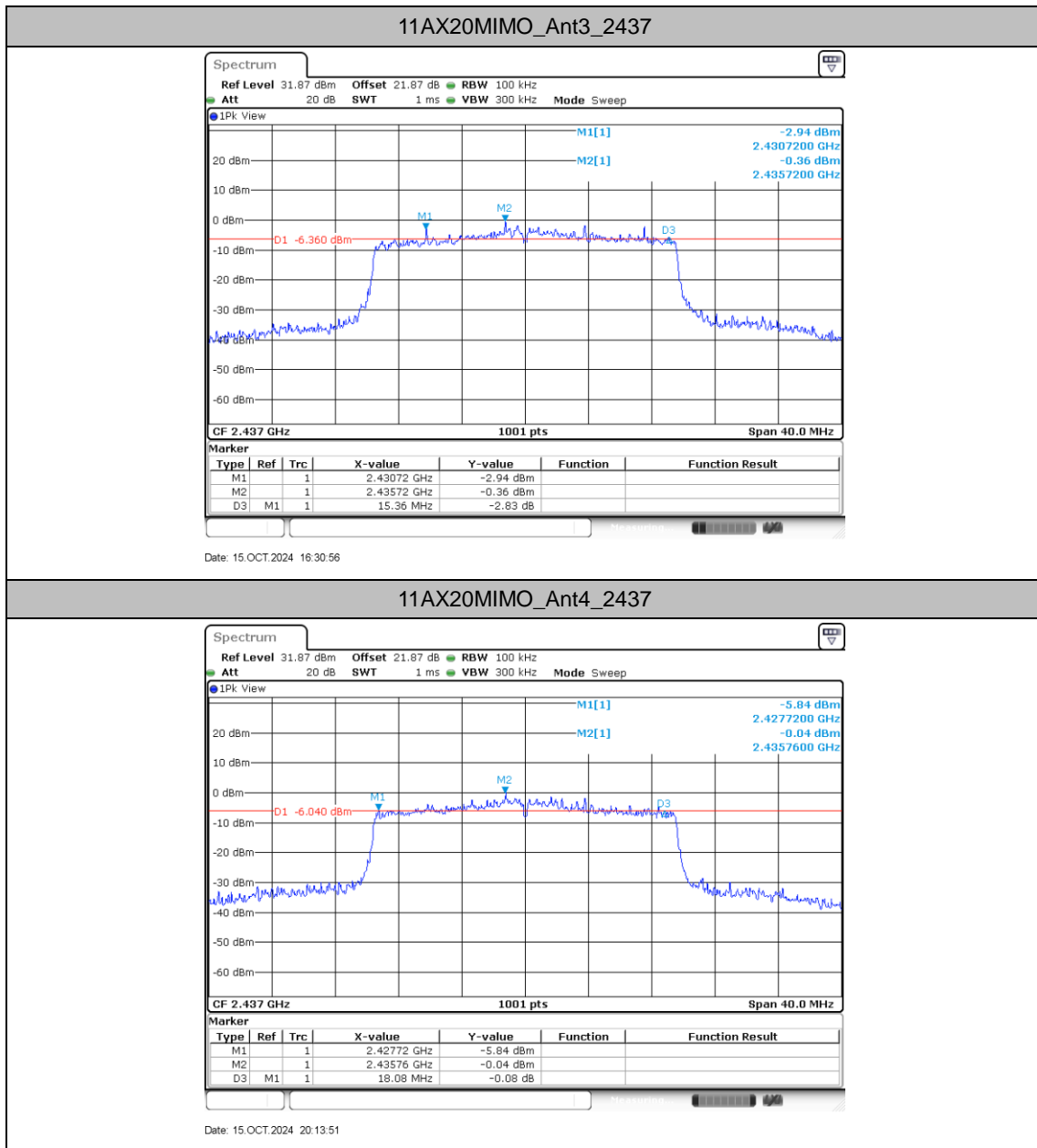


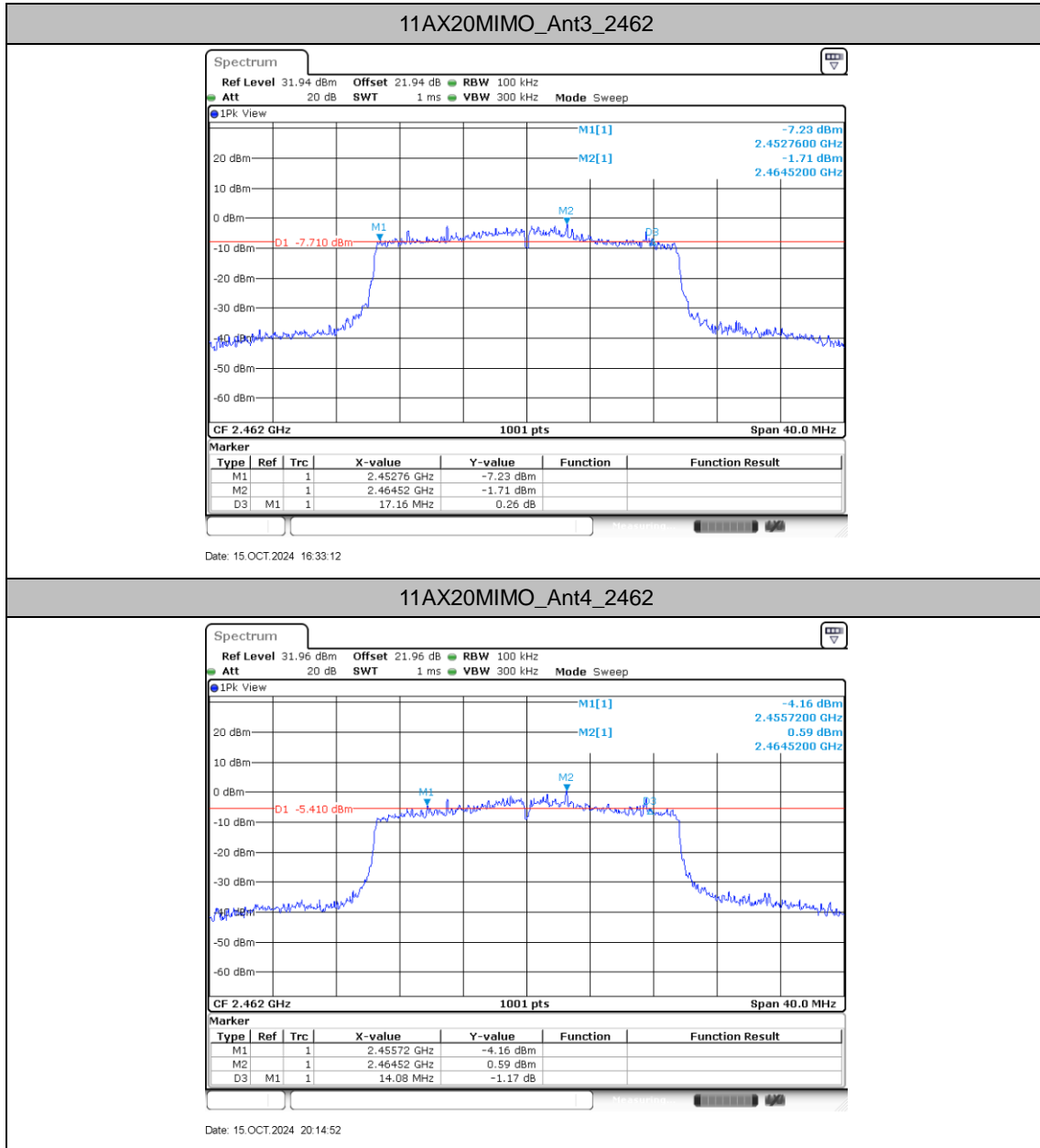


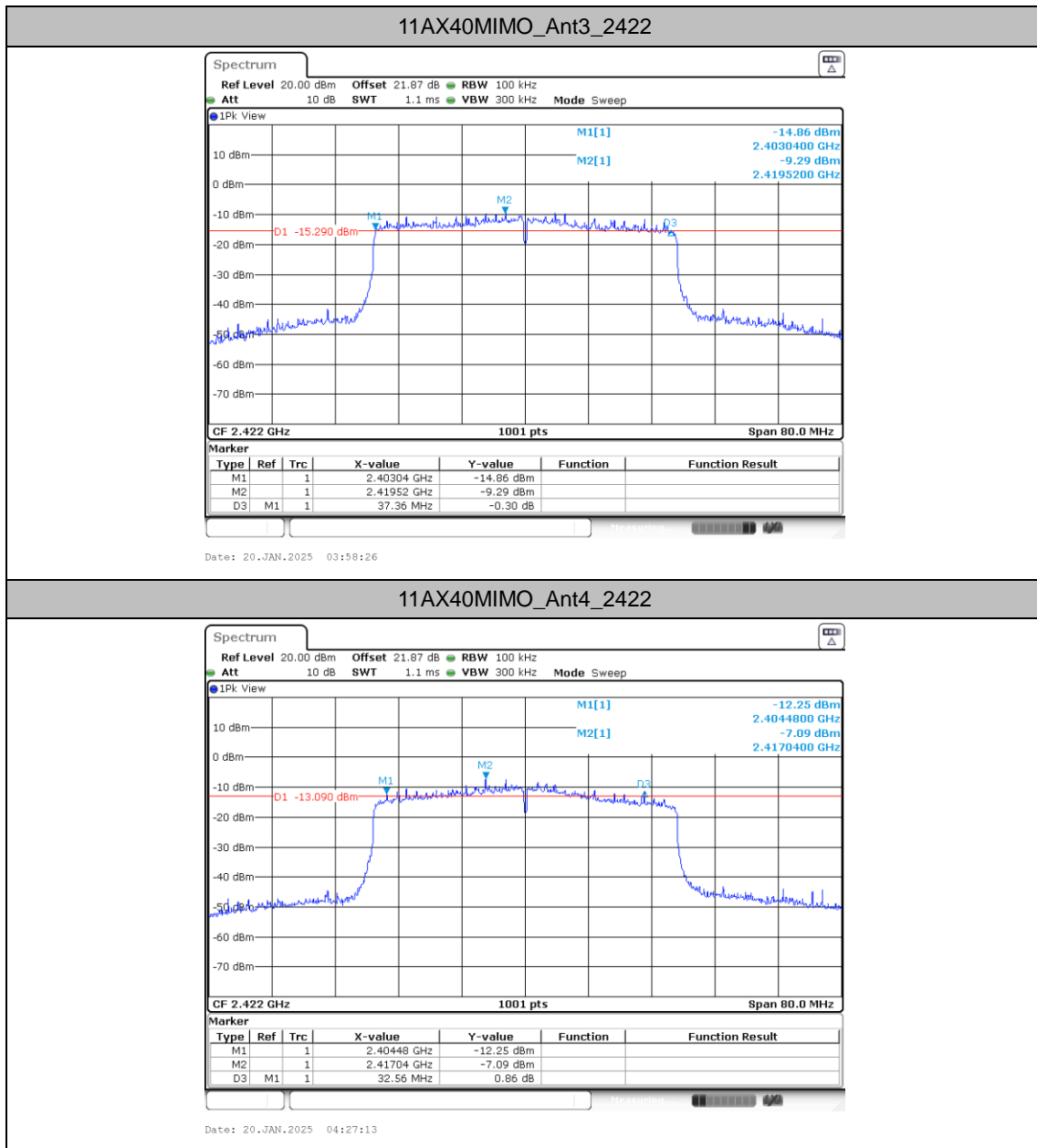


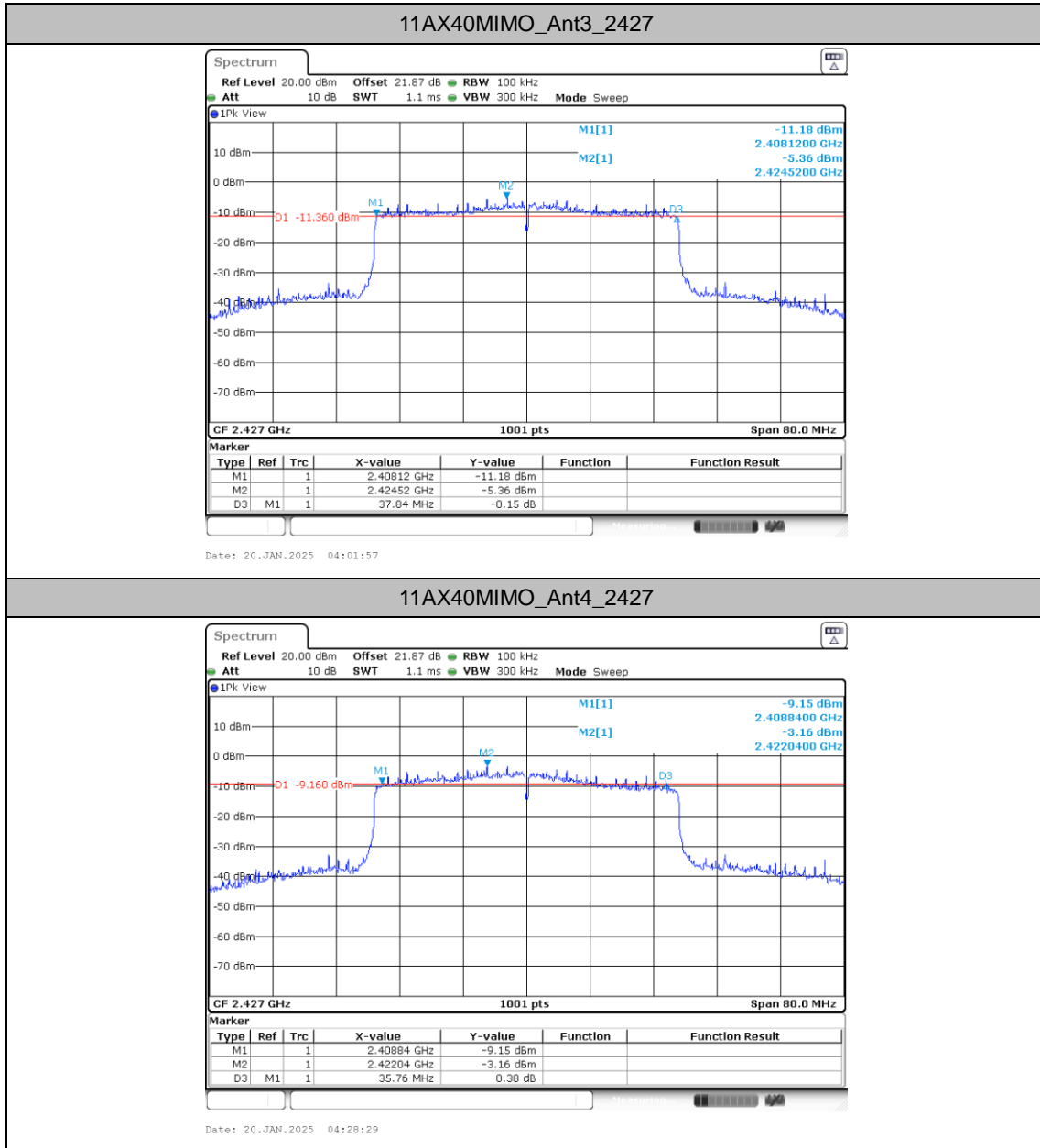


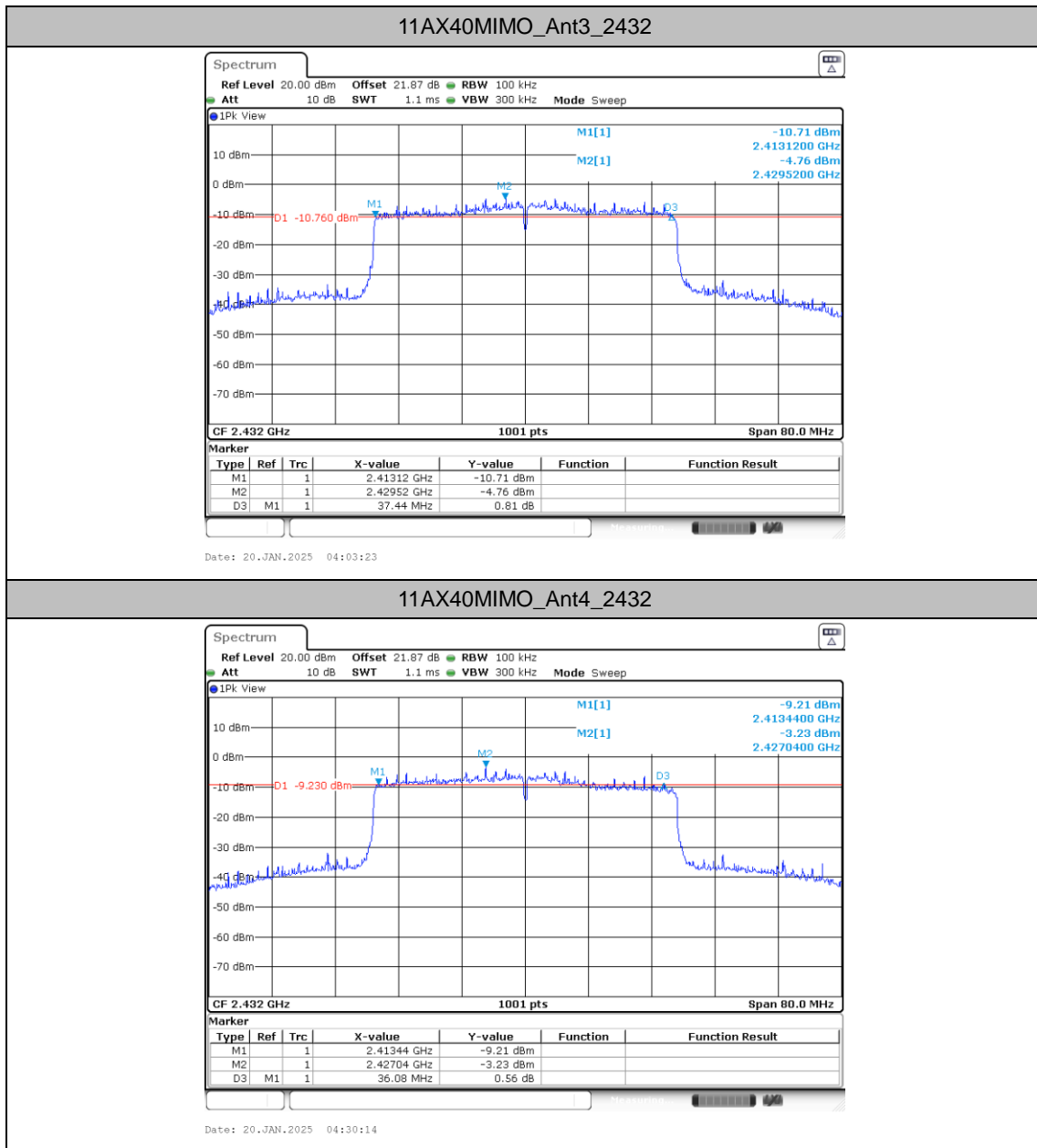


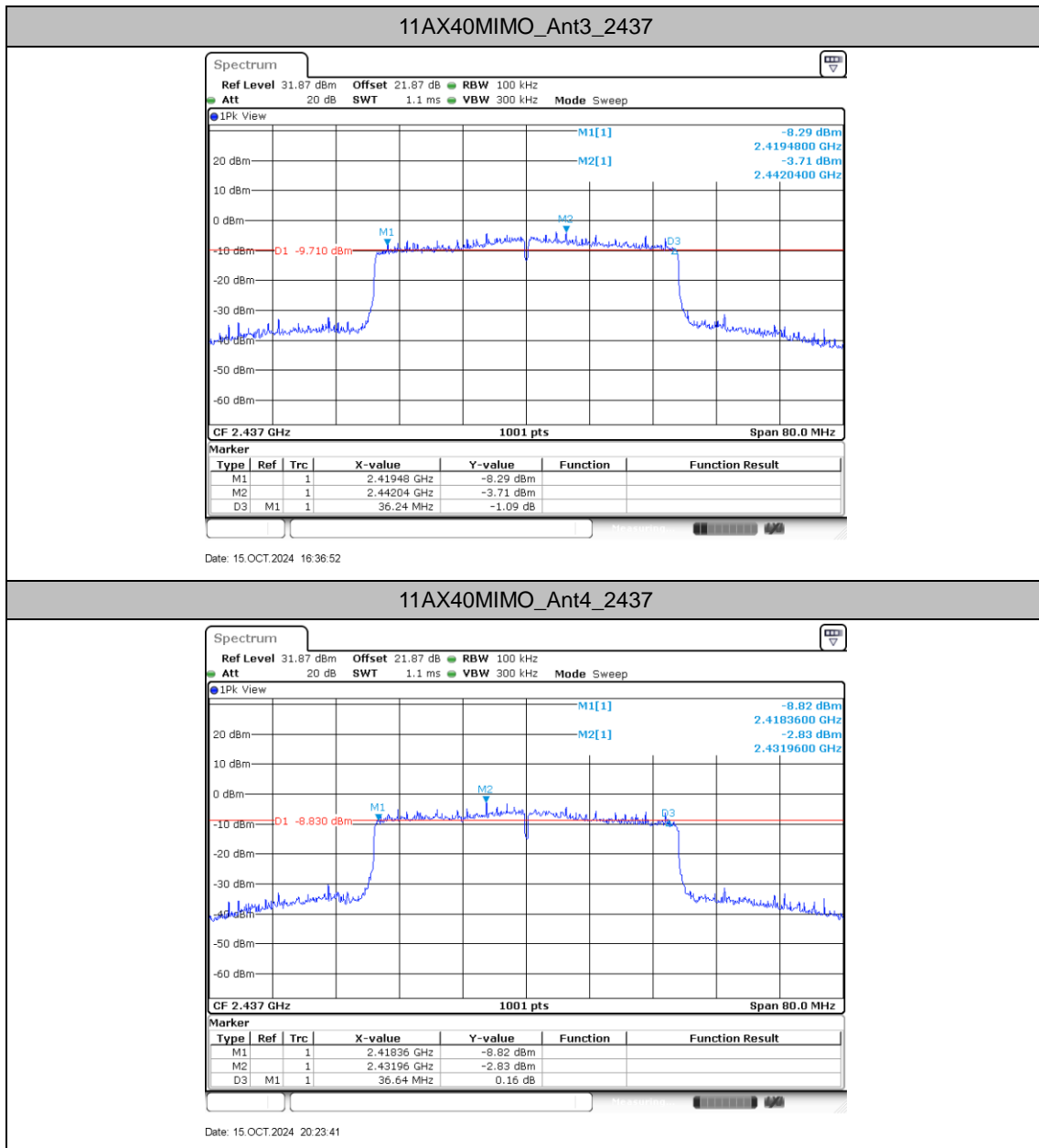


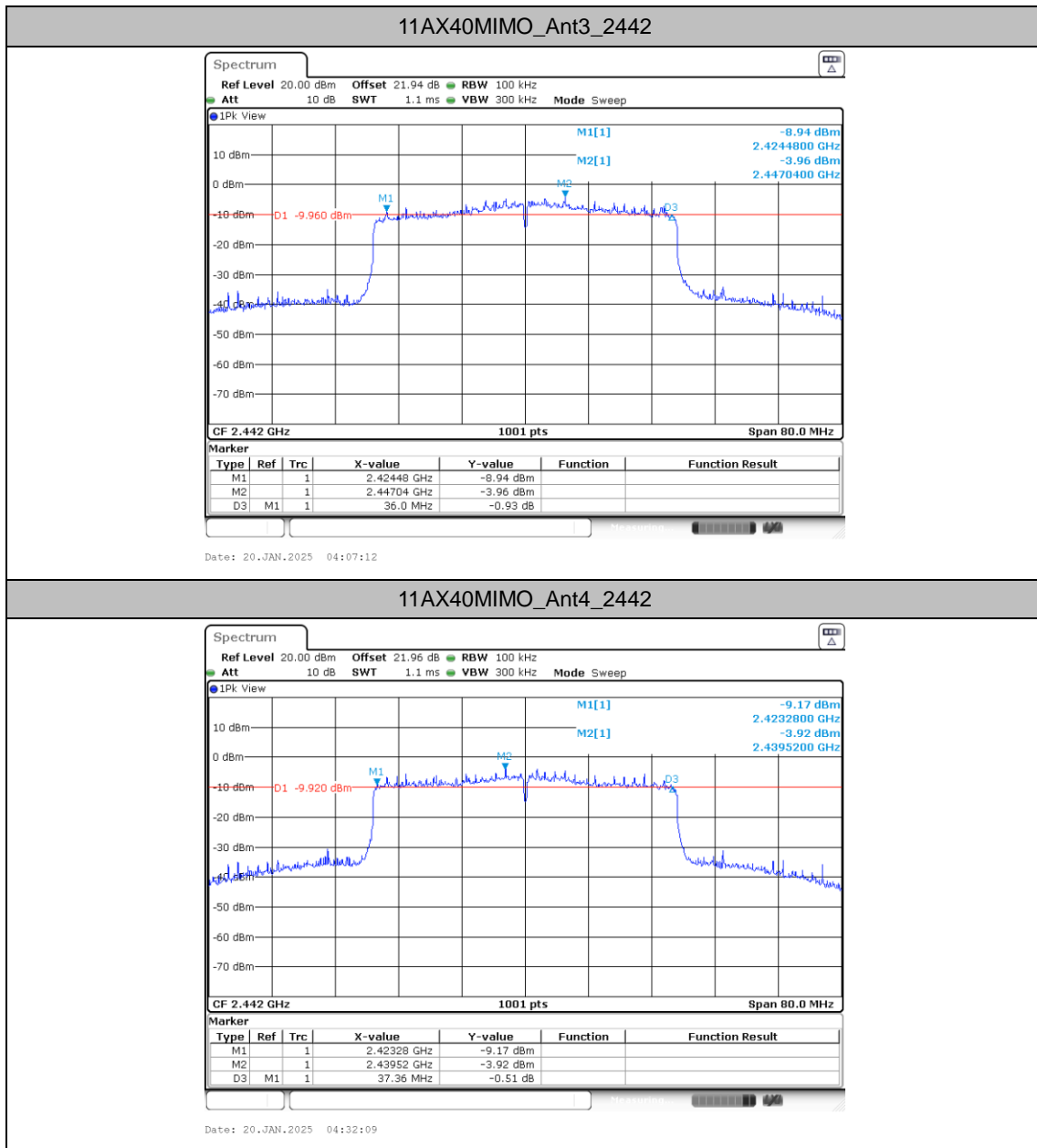


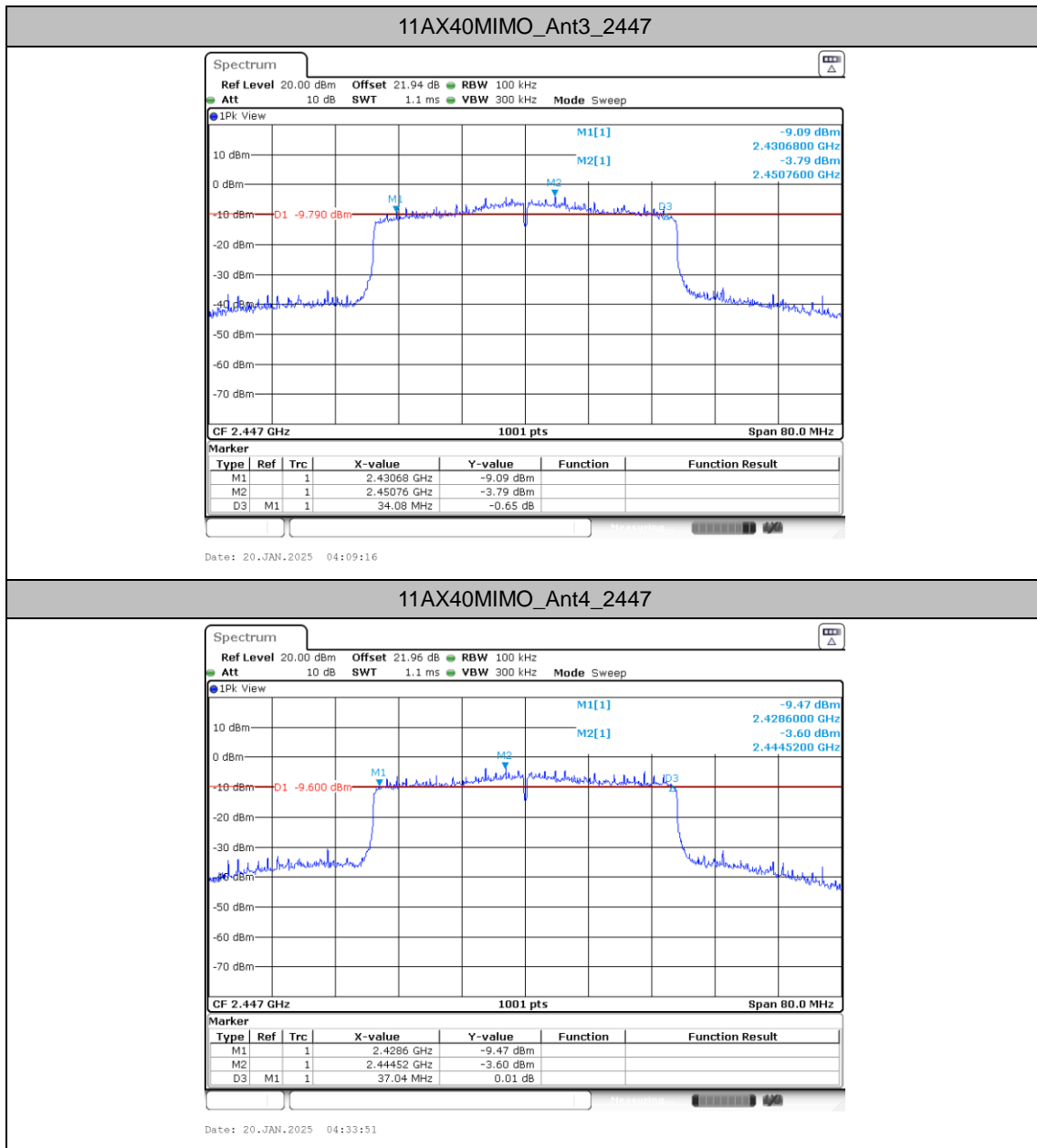






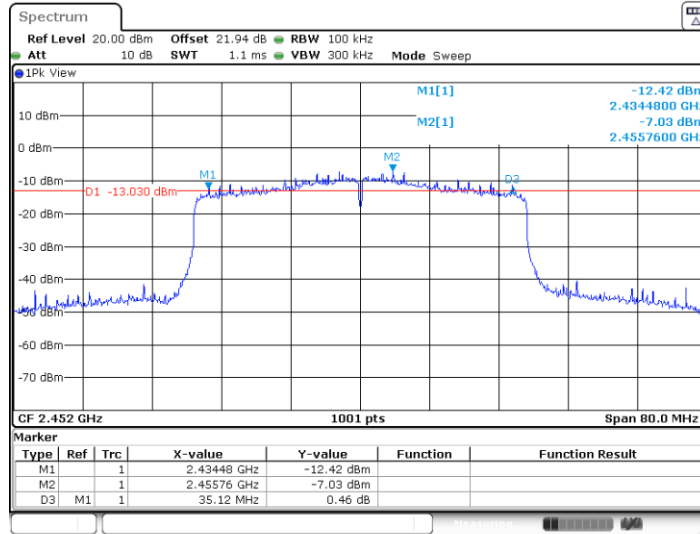






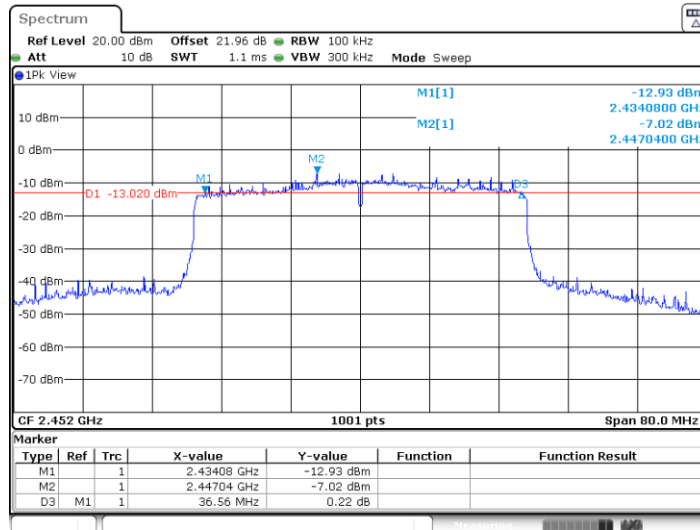


11AX40MIMO_Ant3_2452



Date: 20.JAN.2025 04:10:21

11AX40MIMO_Ant4_2452



Date: 20.JAN.2025 04:35:24



Occupied Channel Bandwidth

Test Result

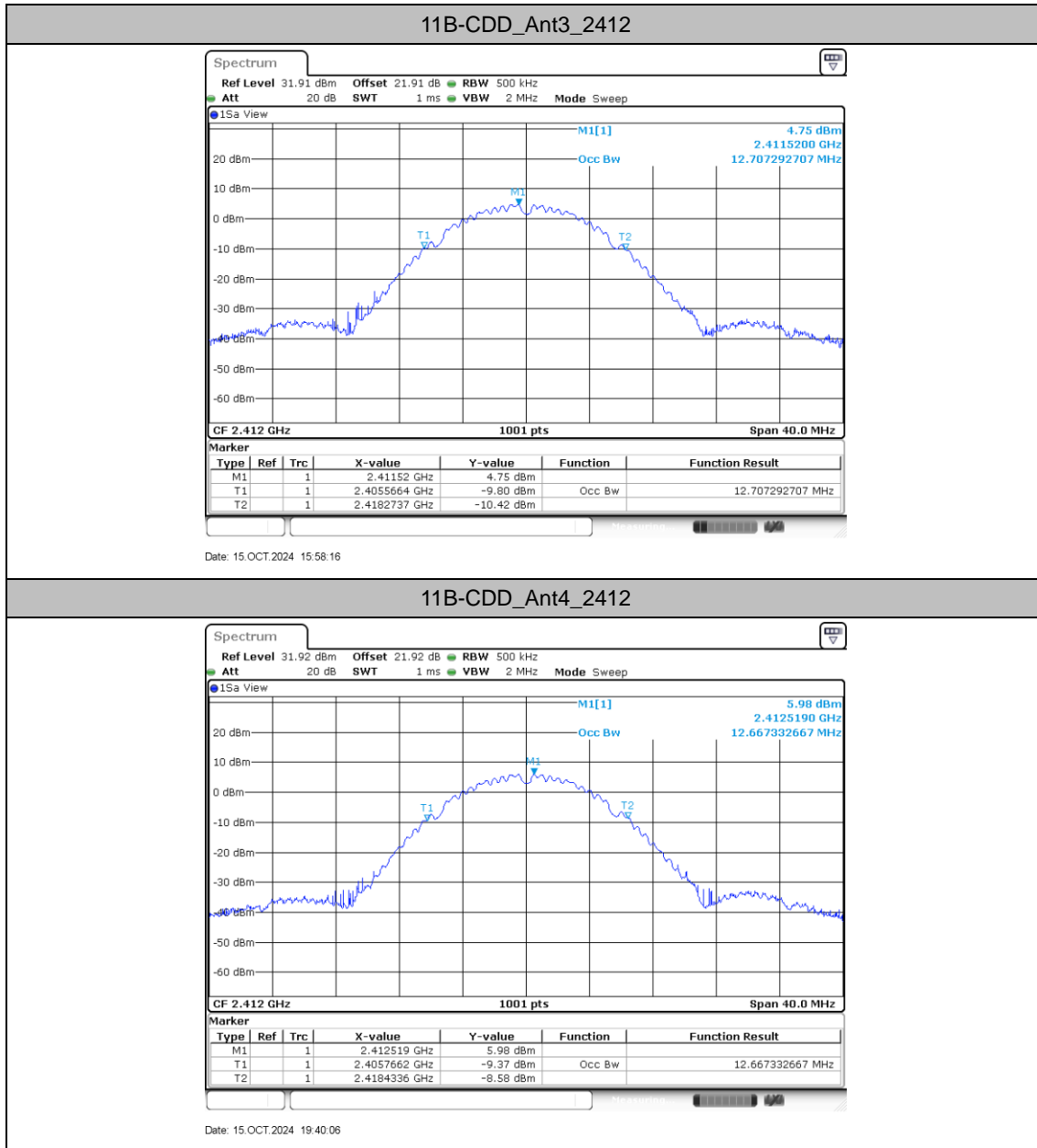
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant3	2412	12.707	2405.5664	2418.2737	---	---
	Ant4	2412	12.667	2405.7662	2418.4336	---	---
	Ant3	2437	12.747	2430.7662	2443.5135	---	---
	Ant4	2437	12.667	2430.6863	2443.3536	---	---
	Ant3	2462	12.747	2455.5664	2468.3137	---	---
	Ant4	2462	12.747	2455.7662	2468.5135	---	---
11G-CDD	Ant3	2412	16.543	2403.6484	2420.1918	---	---
	Ant4	2412	16.464	2403.8082	2420.2717	---	---
	Ant3	2437	16.543	2428.7682	2445.3117	---	---
	Ant4	2437	16.583	2428.6883	2445.2717	---	---
	Ant3	2462	16.503	2453.6883	2470.1918	---	---
	Ant4	2462	16.503	2453.8082	2470.3117	---	---
11N20MIMO	Ant3	2412	17.702	2403.0889	2420.7912	---	---
	Ant4	2412	17.582	2403.2488	2420.8312	---	---
	Ant3	2437	17.702	2428.2088	2445.9111	---	---
	Ant4	2437	17.662	2428.1688	2445.8312	---	---
	Ant3	2462	17.662	2453.1289	2470.7912	---	---
	Ant4	2462	17.582	2453.2488	2470.8312	---	---
11N40MIMO	Ant3	2422	36.044	2403.9381	2439.9820	---	---
	Ant4	2422	35.884	2404.0180	2439.9021	---	---
	Ant3	2427	36.204	2408.9381	2445.1419	---	---
	Ant4	2427	36.044	2408.9381	2444.9820	---	---
	Ant3	2432	36.204	2413.9381	2450.1419	---	---
	Ant4	2432	36.124	2413.8581	2449.9820	---	---
	Ant3	2437	36.124	2419.0180	2455.1419	---	---
	Ant4	2437	36.204	2418.8581	2455.0619	---	---
	Ant3	2442	35.964	2424.0979	2460.0619	---	---
	Ant4	2442	36.284	2423.8581	2460.1419	---	---
	Ant3	2447	35.964	2429.0979	2465.0619	---	---
	Ant4	2447	36.284	2428.9381	2465.2218	---	---
	Ant3	2452	35.884	2434.0979	2469.9820	---	---
	Ant4	2452	36.124	2434.0180	2470.1419	---	---
11AX20MIMO	Ant3	2412	18.861	2402.5295	2421.3906	---	---
	Ant4	2412	18.821	2402.6094	2421.4306	---	---

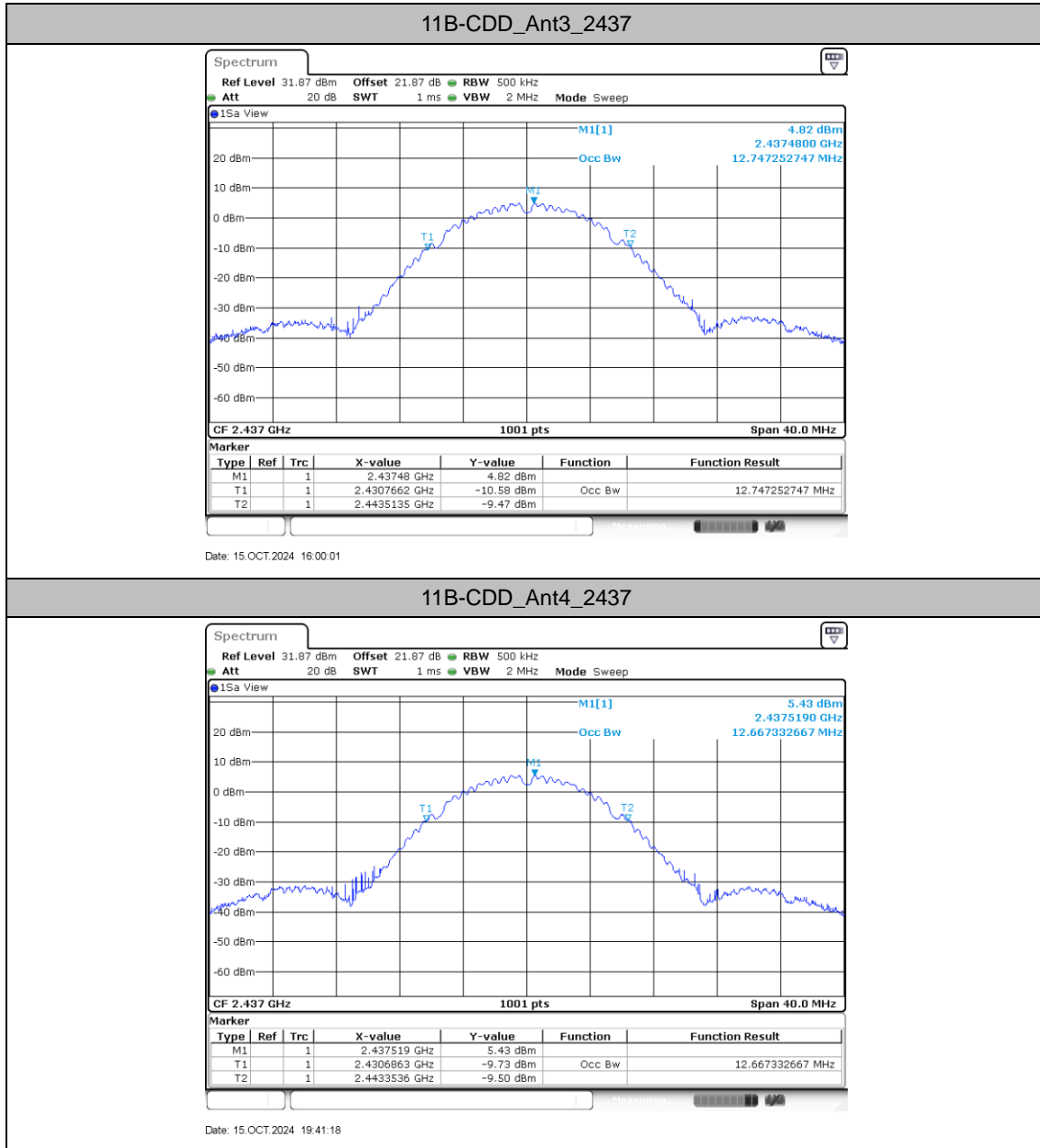


	Ant3	2437	18.941	2427.5694	2446.5105	---	---
	Ant4	2437	18.941	2427.5295	2446.4705	---	---
	Ant3	2462	18.861	2452.5295	2471.3906	---	---
	Ant4	2462	18.861	2452.6094	2471.4705	---	---
11AX40MIMO	Ant3	2422	37.802	2403.0589	2440.8611	---	---
	Ant4	2422	37.562	2403.1389	2440.7013	---	---
	Ant3	2427	37.962	2408.0589	2446.0210	---	---
	Ant4	2427	37.722	2408.0589	2445.7812	---	---
	Ant3	2432	37.962	2413.0589	2451.0210	---	---
	Ant4	2432	37.802	2412.9790	2450.7812	---	---
	Ant3	2437	37.802	2418.1389	2455.9411	---	---
	Ant4	2437	37.962	2417.9790	2455.9411	---	---
	Ant3	2442	37.802	2423.1389	2460.9411	---	---
	Ant4	2442	37.882	2423.0589	2460.9411	---	---
	Ant3	2447	37.562	2428.2987	2465.8611	---	---
	Ant4	2447	37.962	2428.0589	2466.0210	---	---
	Ant3	2452	37.562	2433.2188	2470.7812	---	---
	Ant4	2452	37.802	2433.1389	2470.9411	---	---



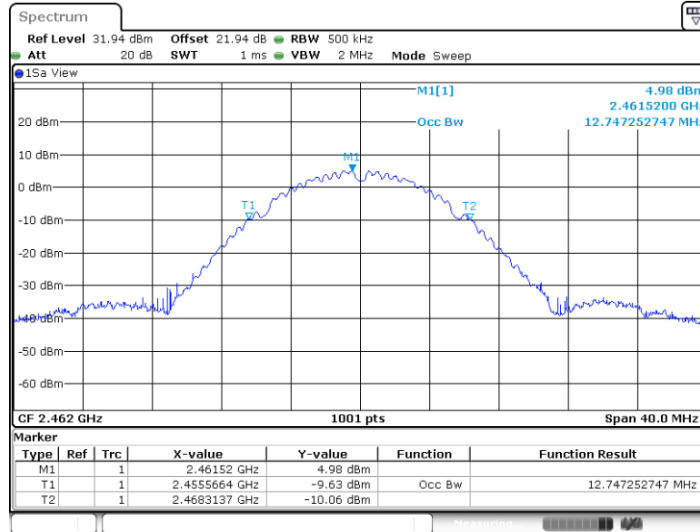
Test Graphs





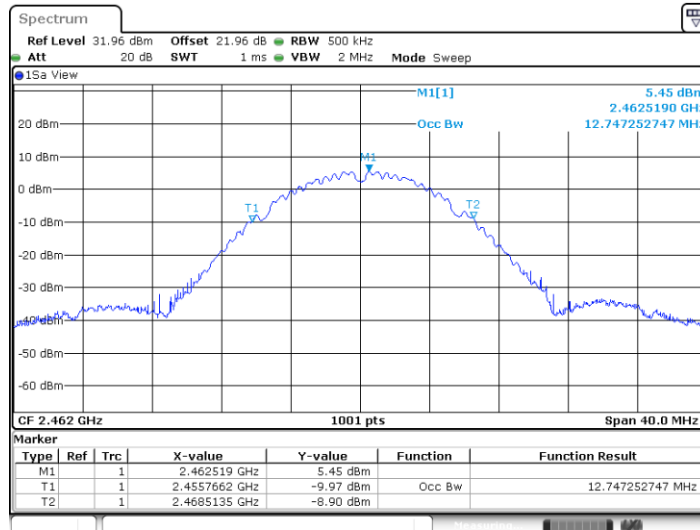


11B-CDD_Ant3_2462

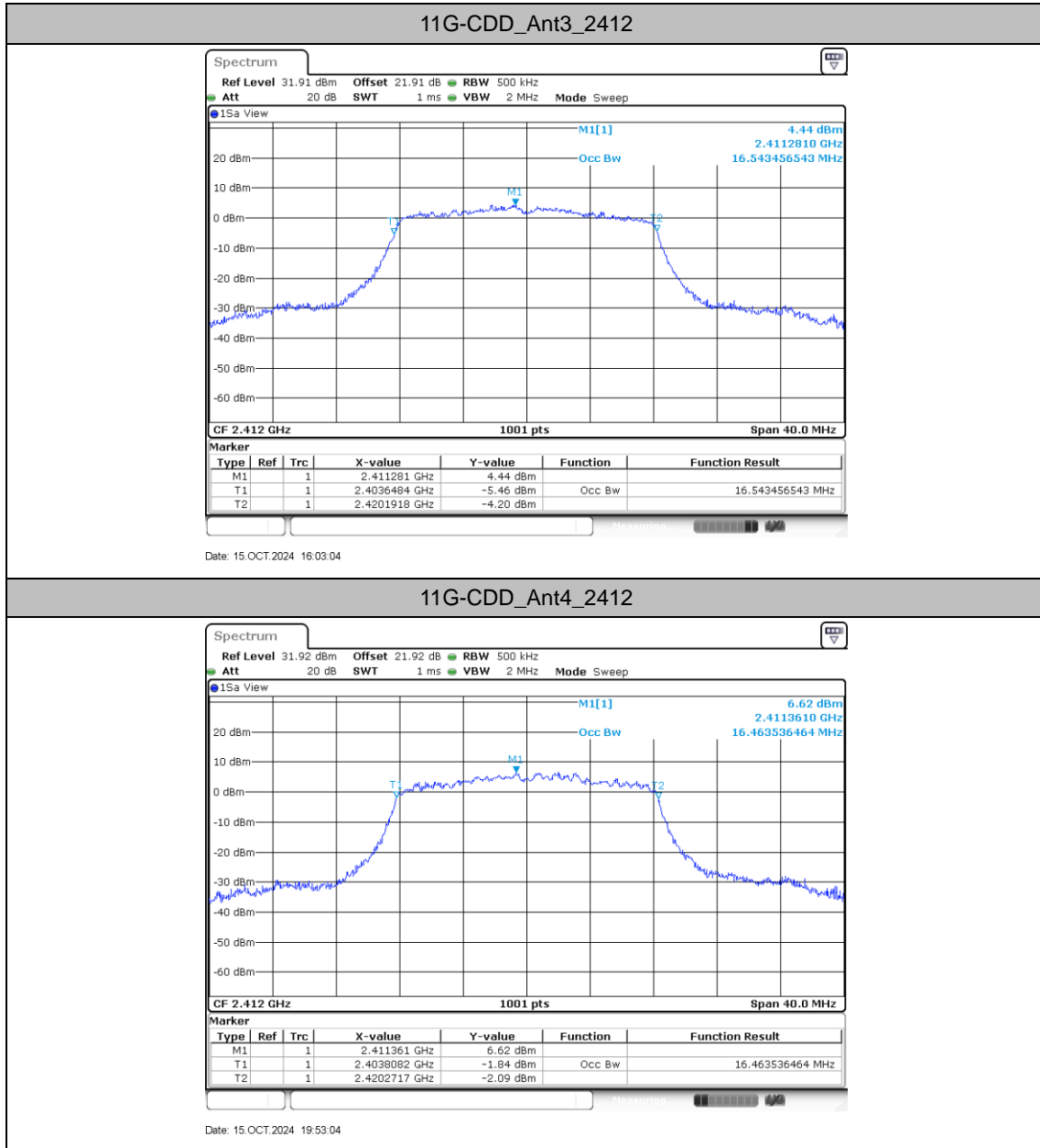


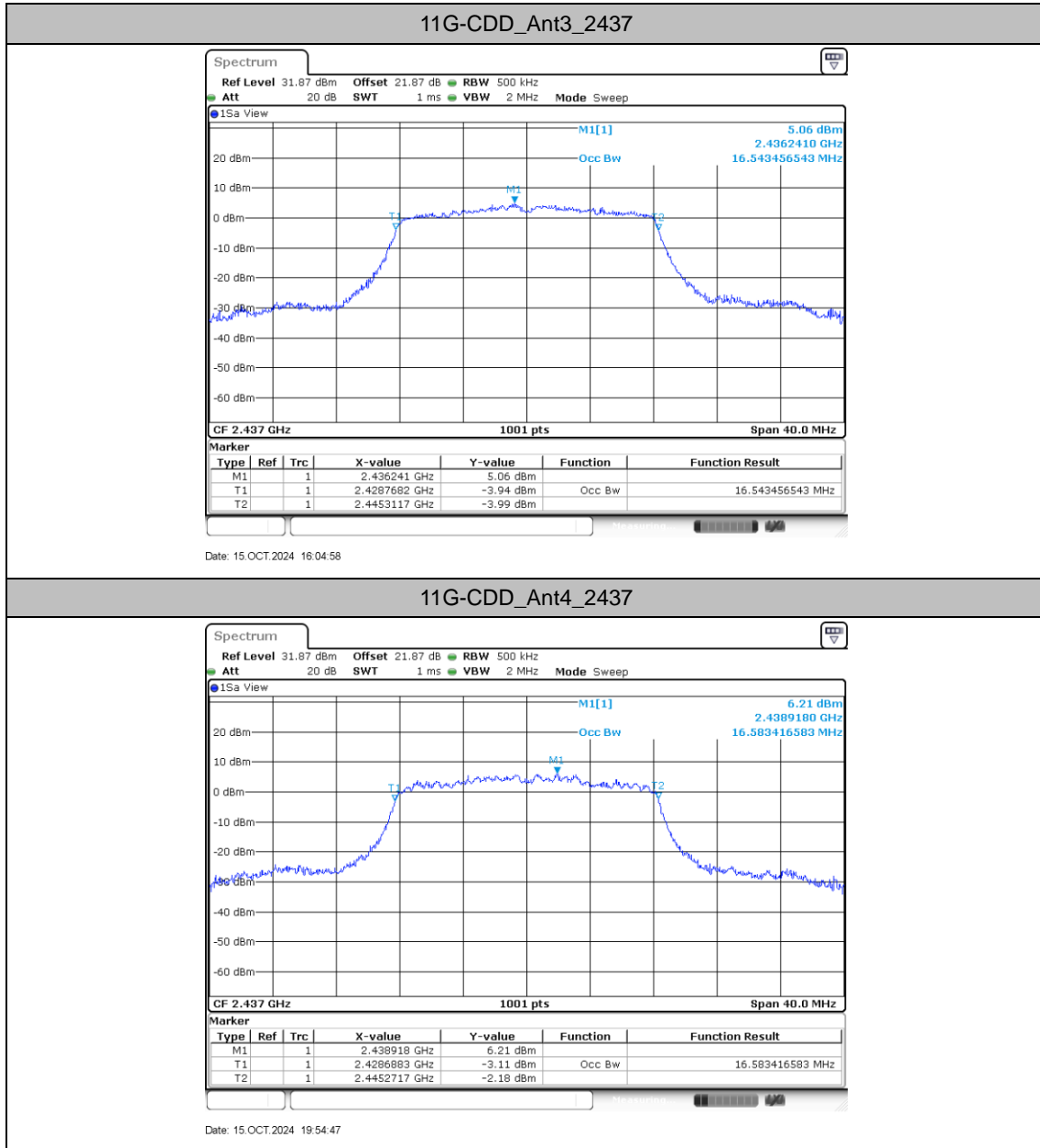
Date: 15.OCT.2024 16:01:12

11B-CDD_Ant4_2462



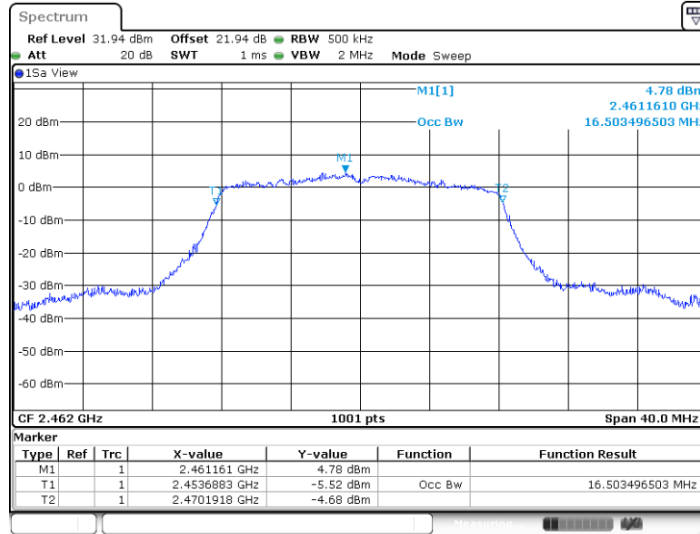
Date: 15.OCT.2024 19:49:39





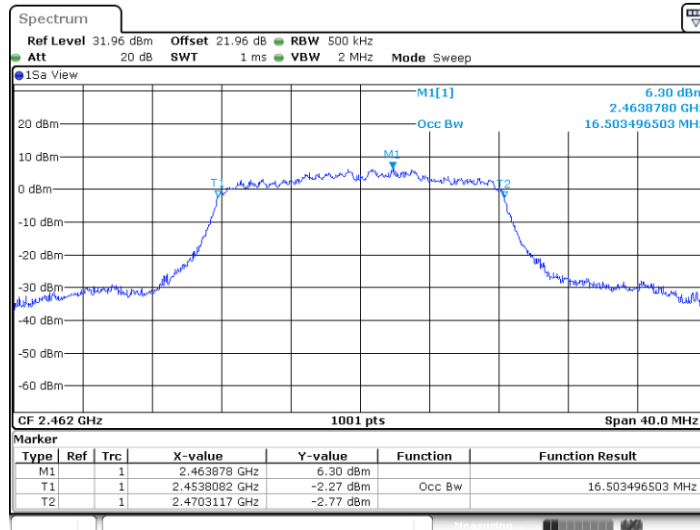


11G-CDD_Ant3_2462



Date: 15.OCT.2024 16:07:12

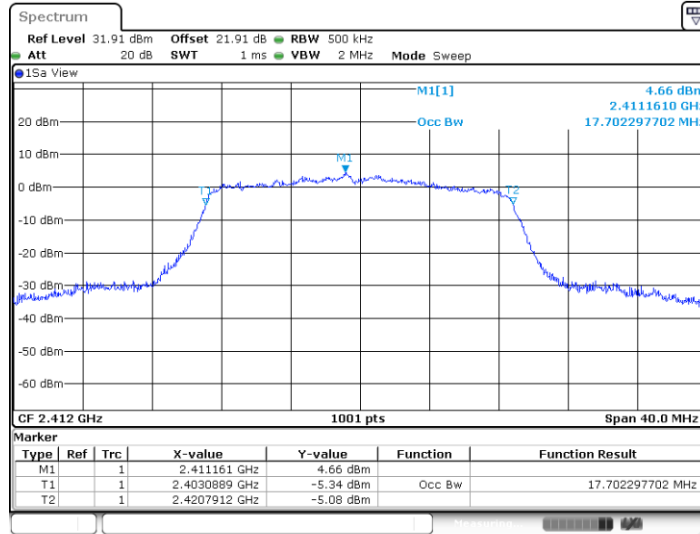
11G-CDD_Ant4_2462



Date: 15.OCT.2024 19:55:46

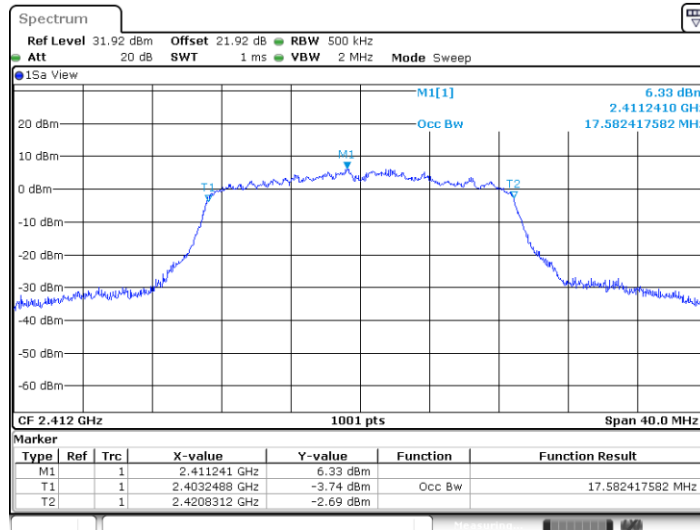


11N20MIMO_Ant3_2412



Date: 15.OCT.2024 16:09:19

11N20MIMO_Ant4_2412



Date: 15.OCT.2024 19:58:29

