



FCC AND ISED CERTIFICATION TEST REPORT

Applicant	:	Harman International Industries, Inc.
Address of Applicant	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES
Manufacturer	:	Harman International Industries, Inc.
Address of Manufacturer	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES
Equipment under Test	:	Multi-Channel Soundbar with wireless subwoofer
Model No.	:	BAR 1000MK2
FCC ID	:	APIBAR1000MK2
IC	:	6132A-BAR1000MK2
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 3 August 2023, ANSI C63.10:2013, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)
Report No.	:	DDT-RE24111522-2E04
Issue Date	:	2025/03/05
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C,
RSS-247 Issue 3 August 2023,
ANSI C63.10:2013,
RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE24111522-2E04		
Date of Receipt:	2024/11/18	Date of Test:	2024/11/18 - 2025/02/19

Created: Jacky Huang	Reviewed: Ella Gong	Approved: Damon Hu
		
2025/02/19	2025/03/05	2025/03/05

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
---	Initial issue	2025/03/05	

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6 dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.247(a)(2), RSS-247 Issue 3 clause 5.2(a), RSS-Gen Issue 5 clause 6.7	/	Pass
2	Peak Output Power	FCC Part 15: 15.247(b)(3), RSS-247 Issue 3 clause 5.4(d)	/	Pass
3	Power Spectral Density	FCC Part 15:15.247(e), RSS-247 Issue 3 clause 5.2(b)	/	Pass
4	RF Conducted Spurious Emissions	FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5	/	Pass
5	Radiated Emission	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5, RSS-Gen Issue 5 clause 8.9, RSS-Gen Issue 5 clause 8.10	/	Pass
6	Band Edge Compliance	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5, RSS-Gen Issue 5 clause 8.9, RSS-Gen Issue 5 clause 8.10	/	Pass
7	Power Line Conducted Emissions	FCC Part 15: 15.207(a), RSS-Gen Issue 5 clause 8.8	/	Pass
8	Antenna Requirement	FCC Part 15: 15.203, RSS-Gen Issue 5 clause 6.8	/	Pass
Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.				

2. General Test Information

2.1. Description of EUT

EUT Name	: Multi-Channel Soundbar with wireless subwoofer
Model Number	: BAR 1000MK2
EUT Function Description	: Please reference user manual of this device
Power Supply	: AC 100-240V, 50/60Hz, 70W
Antenna Type	: Bluetooth Antenna type: PIFA WiFi Antenna type: Monopole SRD Antenna type: PCB
Max Antenna Gain(dBi)	: Bluetooth Antenna: 2.31 dBi Ant1: 2.4 GHz WiFi: 2.17 dBi 5 GHz WiFi: 5150-5250MHz: 3.47 dBi 5250-5350MHz: 3.47 dBi 5470-5725MHz: 3.29 dBi 5745-5825MHz: 3.77 dBi Ant2: 2.4 GHz WiFi: 2.29 dBi 5 GHz WiFi: 5150-5250MHz: 3.57 dBi 5250-5350MHz: 3.07 dBi 5470-5725MHz: 3.37 dBi 5745-5825MHz: 3.83 dBi SRD Antenna: 2.29 dBi

Radio Technology	: IEEE 802.11b/g/n/ax
Operation frequency	: IEEE 802.11b: 2412MHz to 2462MHz IEEE 802.11g: 2412MHz to 2462MHz IEEE 802.11n HT20: 2412MHz to 2462MHz IEEE 802.11n HT40: 2422MHz to 2452MHz IEEE 802.11ax HE20: 2412MHz to 2462MHz IEEE 802.11ax HE40: 2422MHz to 2452MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM, OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)

Channel information					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna

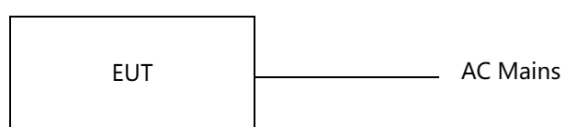
information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
AC cable	Harman	N/A	Length: 195cm
HDMI cable	Harman	N/A	Length: 115cm, with two magnetic rings
Remote control	Harman	N/A	N/A

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Test software: adb.exe

The test software was used to control EUT work in Continuous Tx mode and select test channel, wireless mode as below table.

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

Tested mode, Tx Power Setting, Data rate, Channel, and Frequency					
Tested mode	Tx Power Setting		Data rate (Mbps) (see Note)	Test Channel	Frequency (MHz)
	ANT1	ANT2			
IEEE 802.11b	15	15	1	LCH: CH1	2412
	15	15	1	MCH: CH6	2437
	15	15	1	HCH: CH11	2462
IEEE 802.11g	15	15	6	LCH: CH1	2412
	15	15	6	MCH: CH6	2437
	15	15	6	HCH: CH11	2462
IEEE 802.11n HT20	12	12	MCS 8	LCH: CH1	2412
	12	12	MCS 8	MCH: CH6	2437
	12	12	MCS 8	HCH: CH11	2462
IEEE 802.11n HT40	10	10	MCS 8	LCH: CH3	2422
	10	10	MCS 8	MCH: CH6	2437
	10	10	MCS 8	HCH: CH9	2452
IEEE 802.11ax HE20	SU: 10, RU: 10	SU: 10, RU: 10	MCS 0	LCH: CH1	2412
	SU: 10, RU: 10	SU: 10, RU: 10	MCS 0	MCH: CH6	2437
	SU: 10, RU: 10	SU: 10, RU: 10	MCS 0	HCH: CH11	2462
IEEE 802.11ax HE40	SU: 9, RU: 9	SU: 9, RU: 9	MCS 0	LCH: CH3	2422
	SU: 9, RU: 9	SU: 9, RU: 9	MCS 0	MCH: CH6	2437
	SU: 9, RU: 9	SU: 9, RU: 9	MCS 0	HCH: CH9	2452
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.					

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	+15°C to +35 °C
Humidity range:	20% to 75%
Pressure range:	86 kPa to 106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2.8. Measurement uncertainty

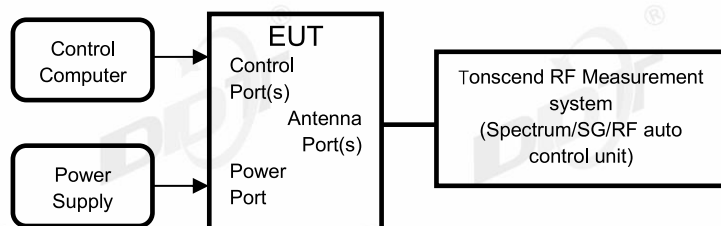
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB (10 MHz $\leq$ f < 3.6 GHz);
	1.38 dB (3.6 GHz $\leq$ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB (10 MHz $\leq$ f < 3.6 GHz);
	1.38 dB (3.6 GHz $\leq$ f < 8 GHz)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB (10 MHz $\leq$ f < 3.6 GHz);
	1.40 dB (3.6 GHz $\leq$ f < 8 GHz)
	1.66 dB (8 GHz $\leq$ f < 26.5 GHz)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☑RF Connected Test (RF Measurement System 4#)				
Signal &Spectrum Analyzer	R&S	FSV3044	101173	2025/03/31
Wideband Radio Communication Tester	R&S	CMW500	168801	2025/03/31
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2025/03/31
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2025/08/25
RF Control Unit	Tonsend	JS0806-2	2118060485	2025/03/31
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2025/04/22
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A

4. 6dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz

4.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.8.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for 6 dB Bandwidth:

RBW:	100 kHz
VBW:	$\geq [3 \times \text{RBW}]$
Detector Mode:	peak
Sweep time:	auto
Trace mode	max hold

Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report

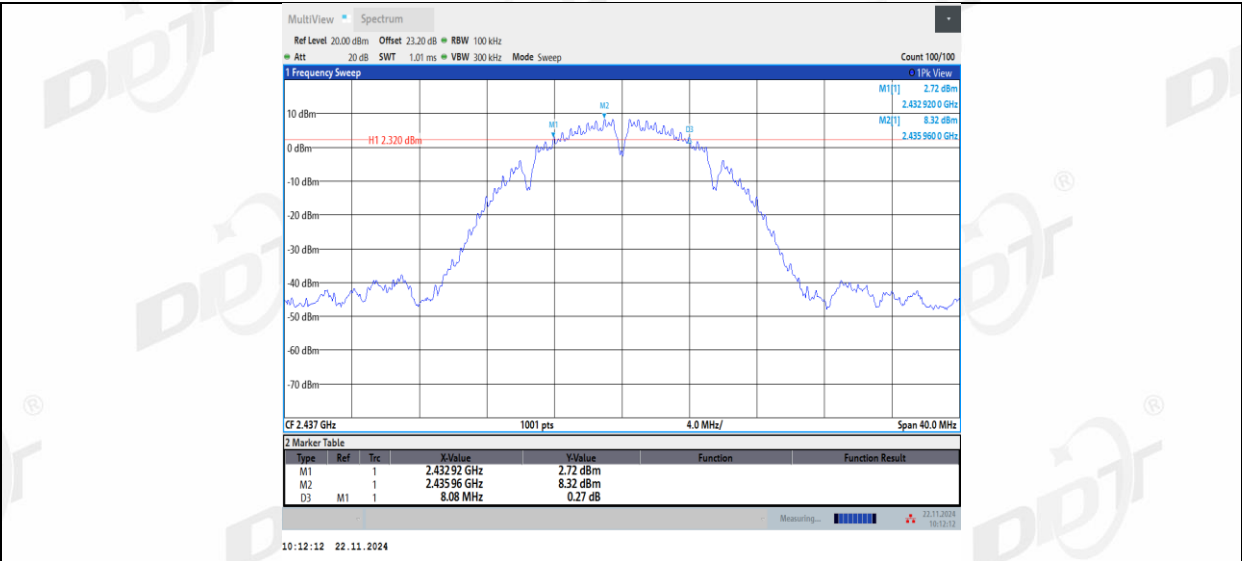
4.4. Test result

Test Engineer:	Zoe Peng	Test Site:	RF Measurement System 4#
Ambient Condition:	22.3-23.1℃,47.2-49.1%RH	Test Date:	2024.11.22-2024.11.25
Test Power Supply:	AC 100-240V	Sample Number:	S24111522-014

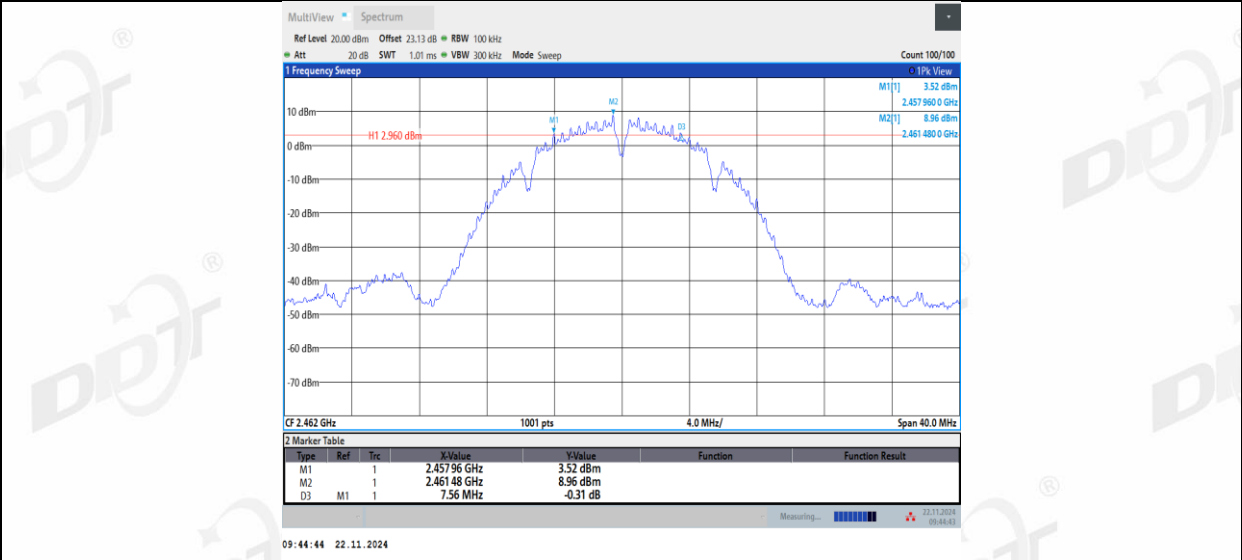
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.04	2407.96	2416.00	0.5	PASS
	Ant2	2412	8.08	2407.92	2416.00	0.5	PASS
	Ant1	2437	8.04	2432.96	2441.00	0.5	PASS
	Ant2	2437	8.08	2432.92	2441.00	0.5	PASS
	Ant1	2462	7.56	2457.96	2465.52	0.5	PASS
	Ant2	2462	8.08	2457.92	2466.00	0.5	PASS
11G	Ant1	2412	15.12	2404.40	2419.52	0.5	PASS
	Ant2	2412	15.12	2404.40	2419.52	0.5	PASS
	Ant1	2437	15.48	2429.08	2444.56	0.5	PASS
	Ant2	2437	15.48	2429.08	2444.56	0.5	PASS
	Ant1	2462	15.76	2454.08	2469.84	0.5	PASS
	Ant2	2462	15.48	2454.04	2469.52	0.5	PASS
11N20MI MO	Ant1	2412	15.12	2404.40	2419.52	0.5	PASS
	Ant2	2412	15.12	2404.40	2419.52	0.5	PASS
	Ant1	2437	16.04	2428.80	2444.84	0.5	PASS
	Ant2	2437	16.56	2428.80	2445.36	0.5	PASS
	Ant1	2462	16.56	2453.80	2470.36	0.5	PASS
	Ant2	2462	16.96	2453.16	2470.12	0.5	PASS
11N40MI MO	Ant1	2422	35.12	2404.48	2439.60	0.5	PASS
	Ant2	2422	35.12	2404.48	2439.60	0.5	PASS
	Ant1	2437	35.12	2419.48	2454.60	0.5	PASS
	Ant2	2437	35.12	2419.48	2454.60	0.5	PASS
	Ant1	2452	35.12	2434.48	2469.60	0.5	PASS
	Ant2	2452	35.04	2434.48	2469.52	0.5	PASS
11AX20M IMO	Ant1	2412	18.44	2402.80	2421.24	0.5	PASS
	Ant2	2412	18.08	2402.92	2421.00	0.5	PASS
	Ant1	2437	18.76	2427.52	2446.28	0.5	PASS
	Ant2	2437	18.80	2427.52	2446.32	0.5	PASS
	Ant1	2462	18.52	2452.72	2471.24	0.5	PASS
	Ant2	2462	18.12	2452.60	2470.72	0.5	PASS
11AX40M IMO	Ant1	2422	37.28	2403.44	2440.72	0.5	PASS
	Ant2	2422	36.08	2404.40	2440.48	0.5	PASS
	Ant1	2437	37.44	2418.04	2455.48	0.5	PASS
	Ant2	2437	36.32	2419.08	2455.40	0.5	PASS
	Ant1	2452	37.44	2433.28	2470.72	0.5	PASS
	Ant2	2452	37.12	2433.60	2470.72	0.5	PASS

4.5. Test graphs

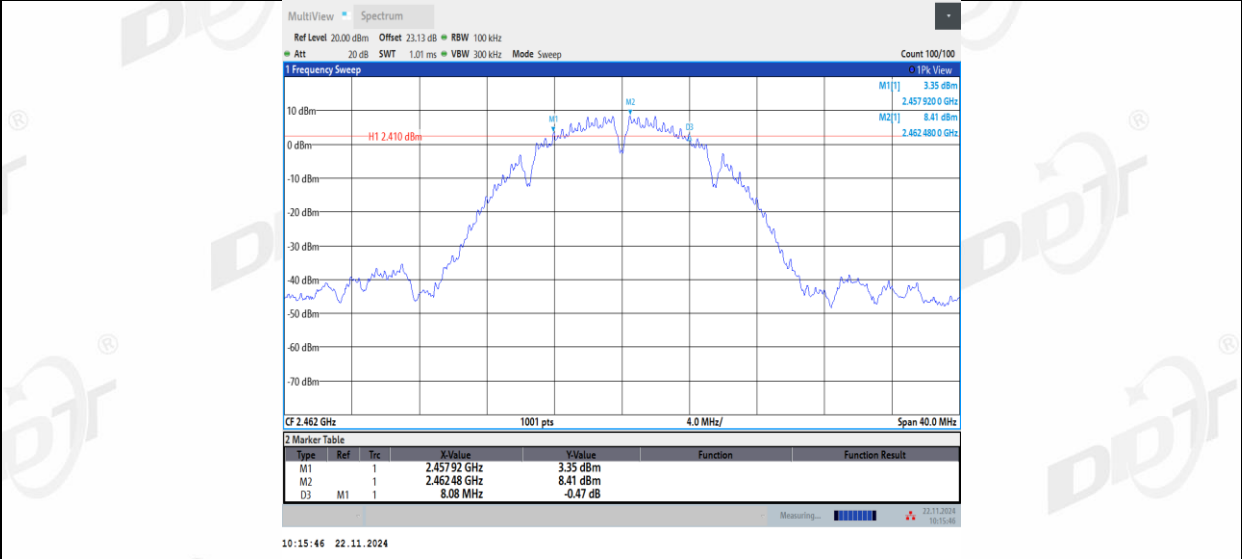




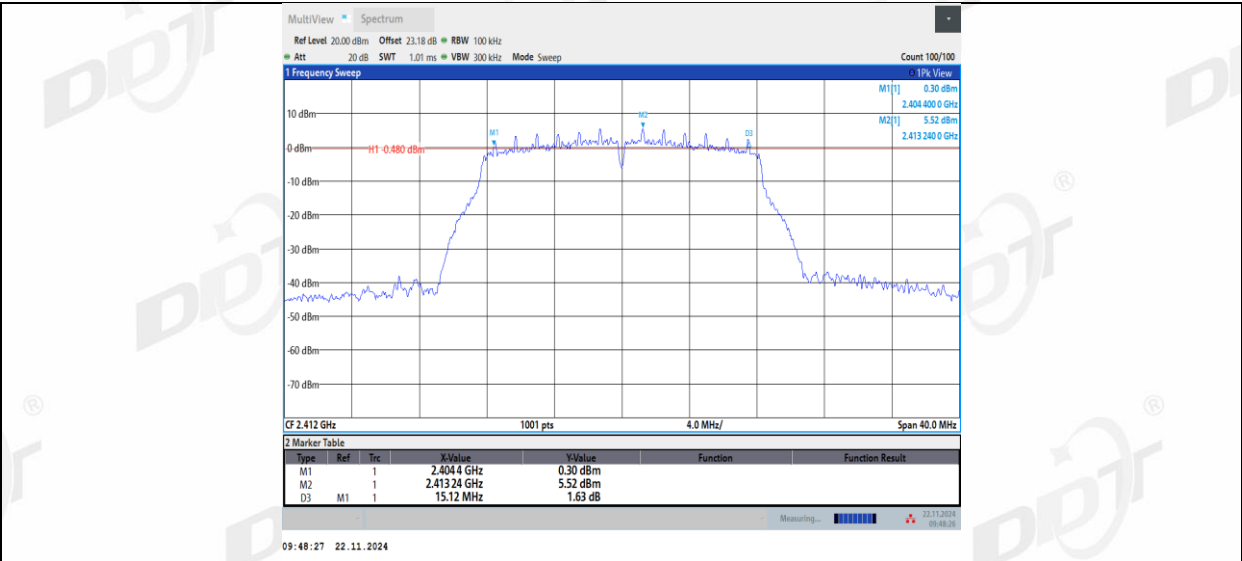
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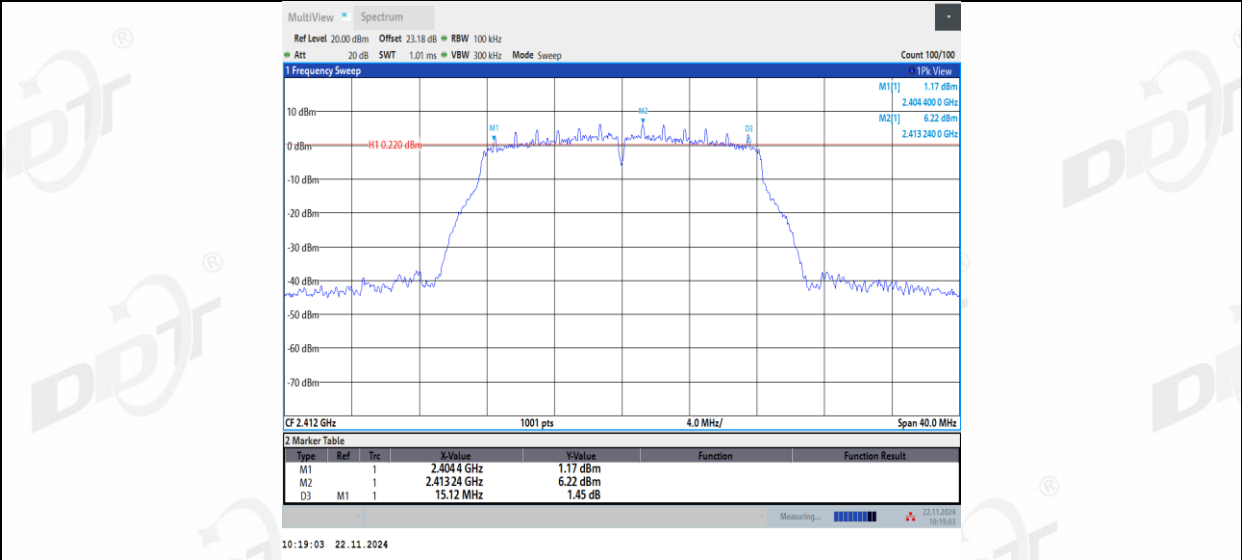
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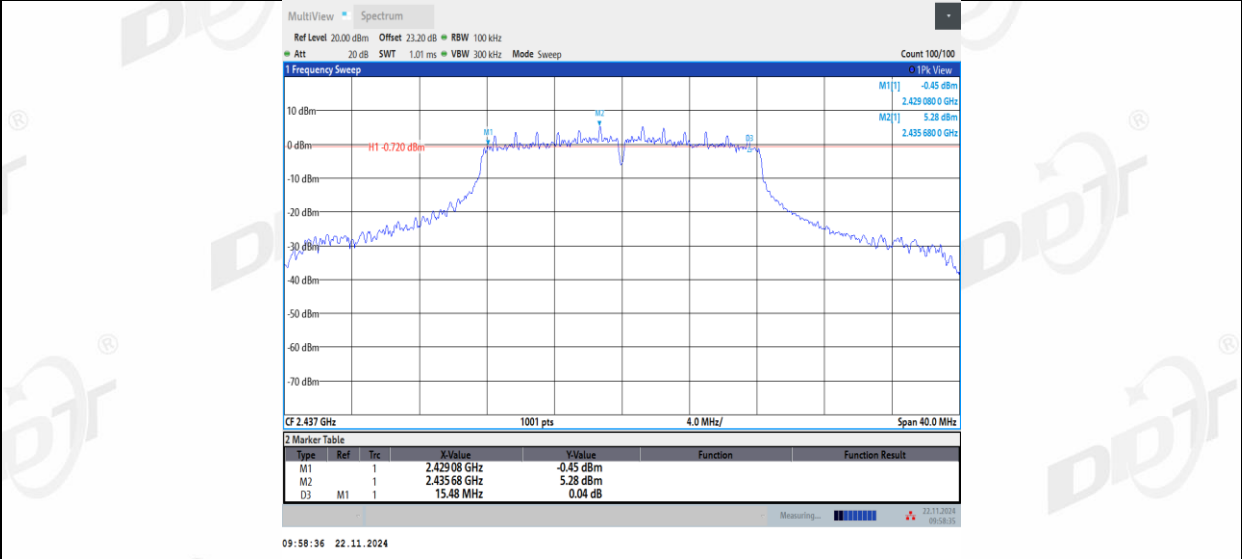
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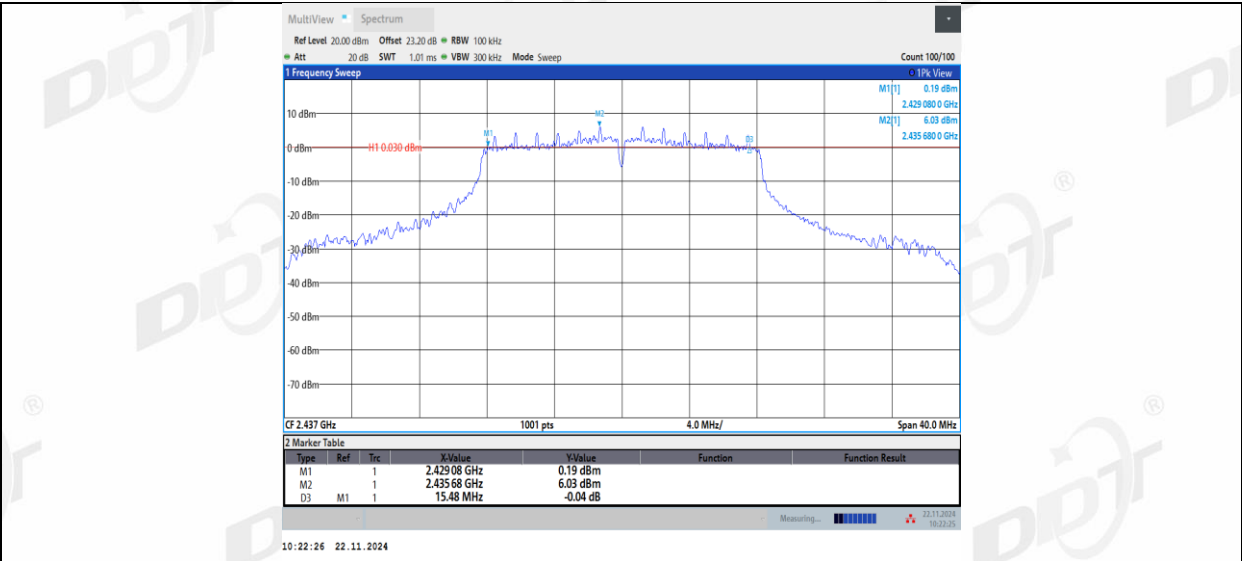
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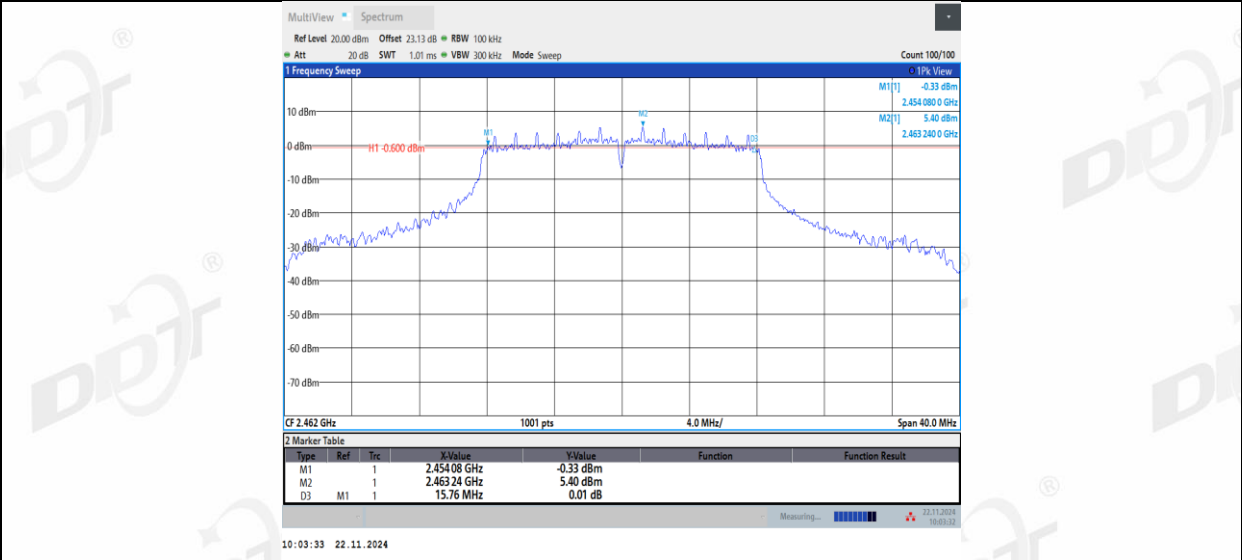
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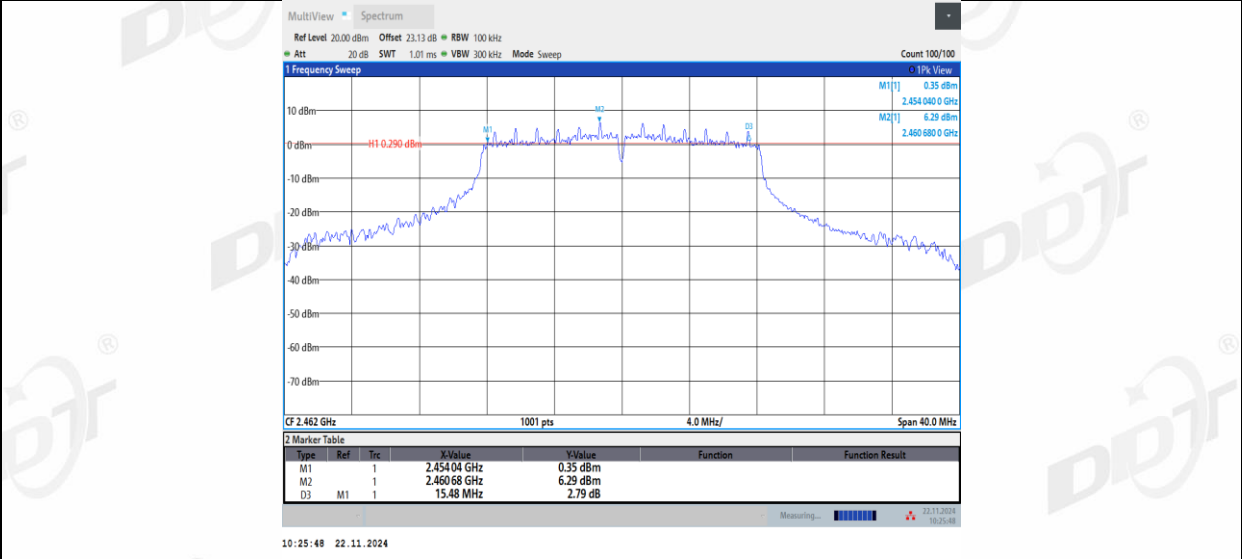
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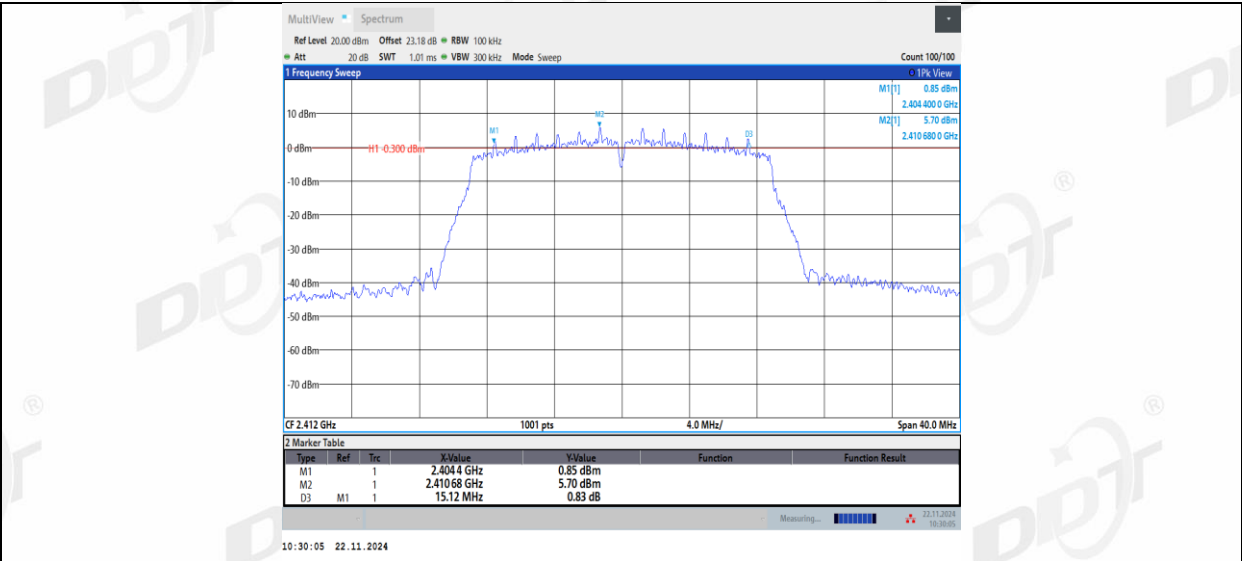
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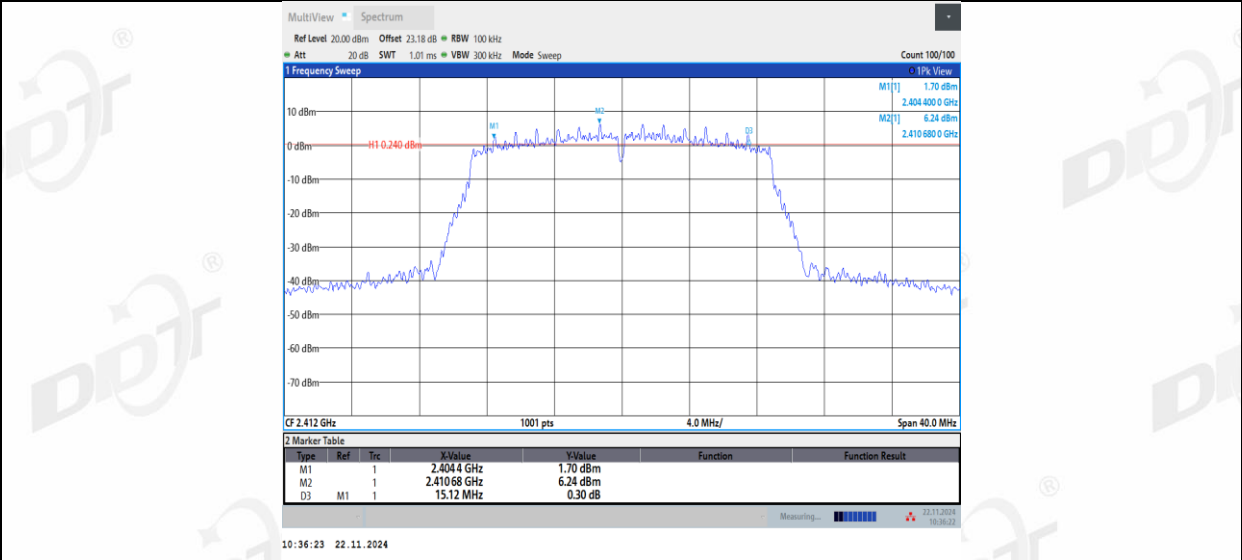
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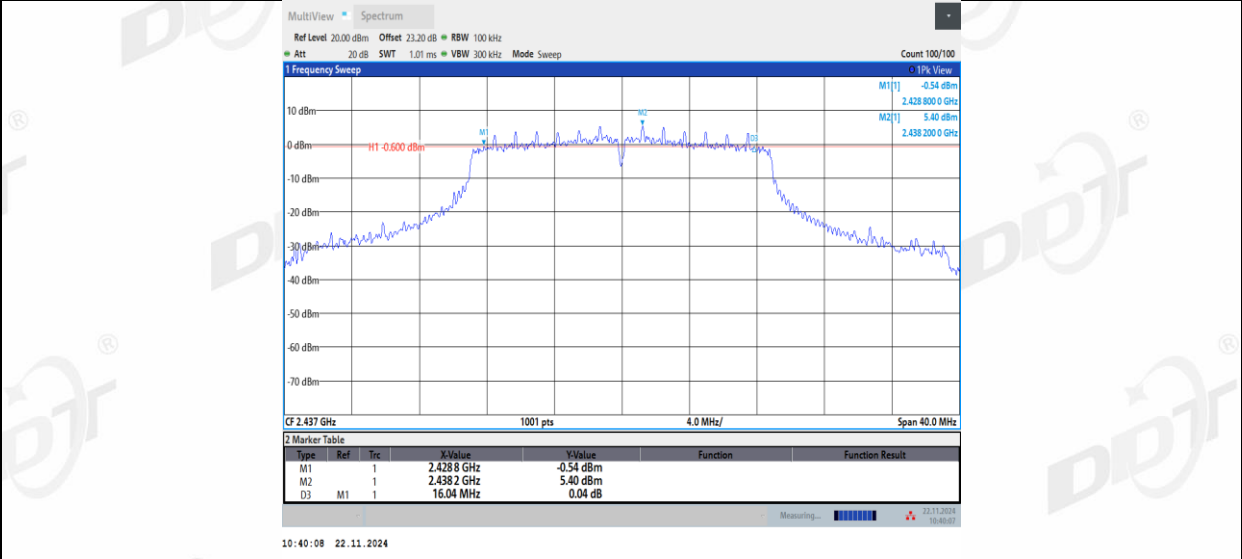
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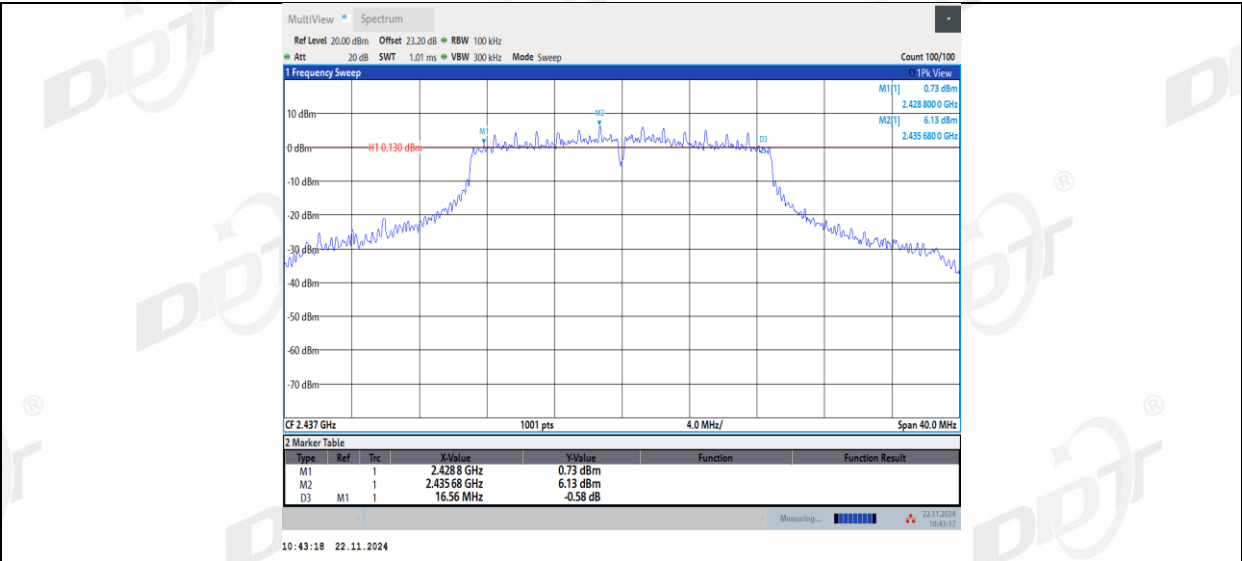
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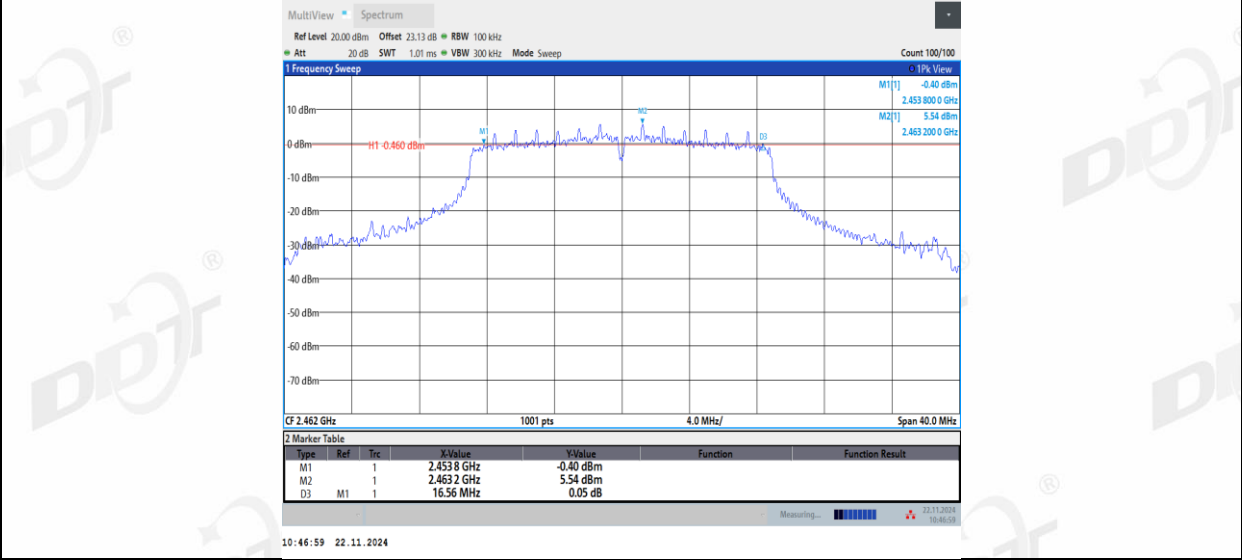
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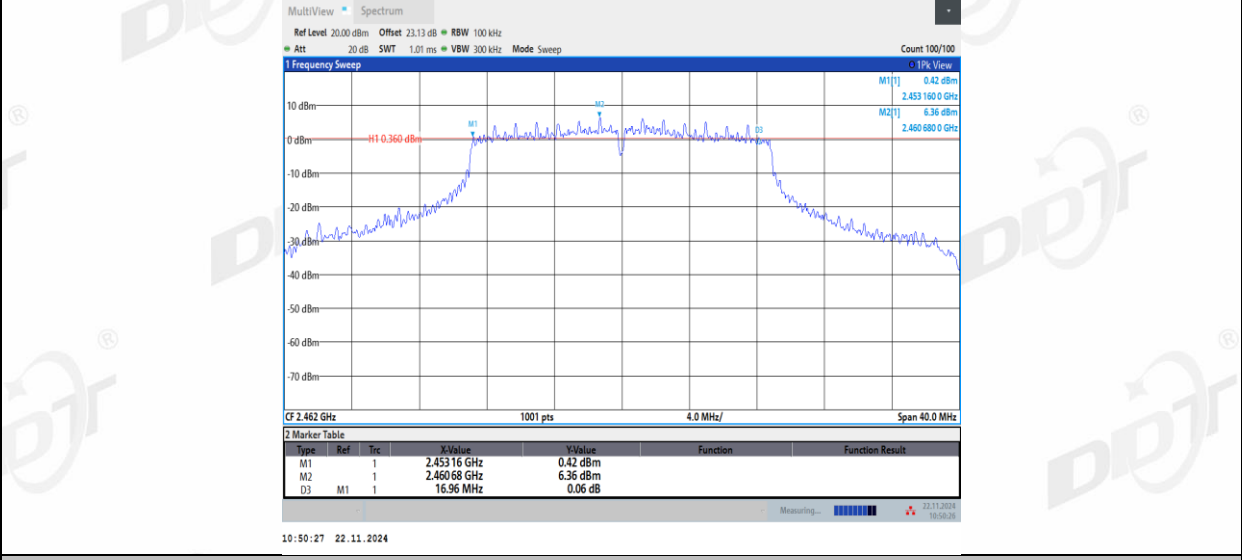
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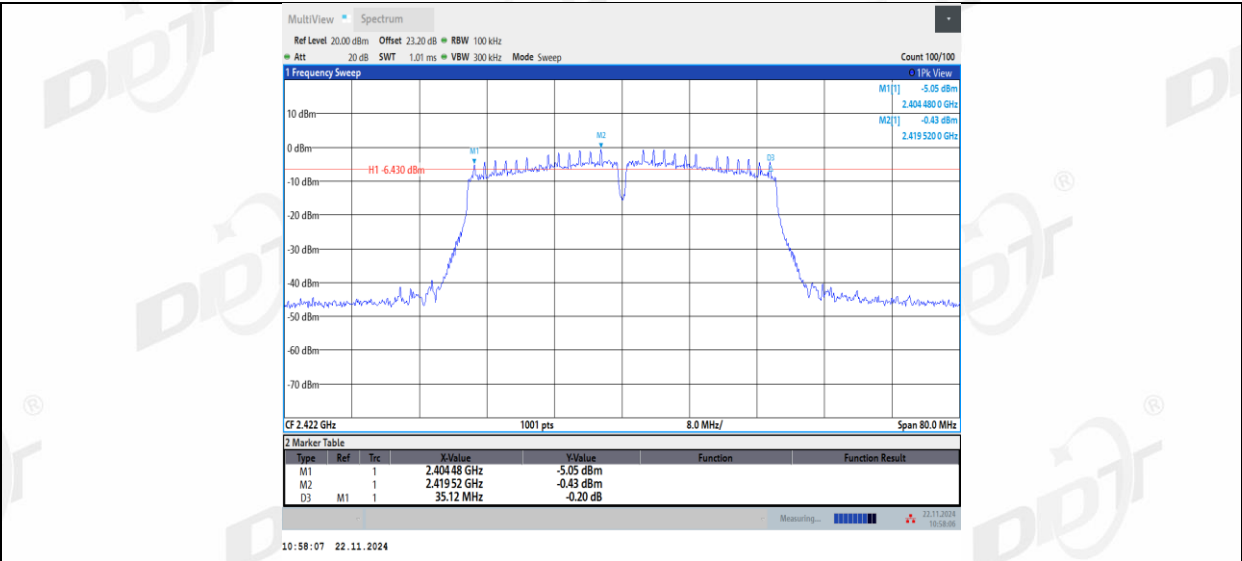
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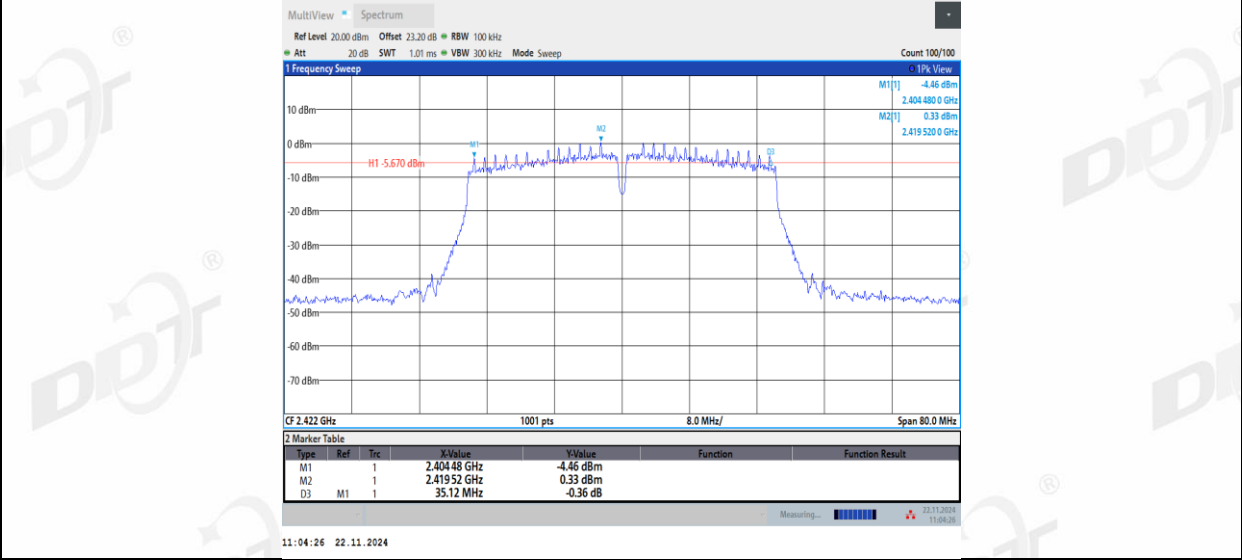
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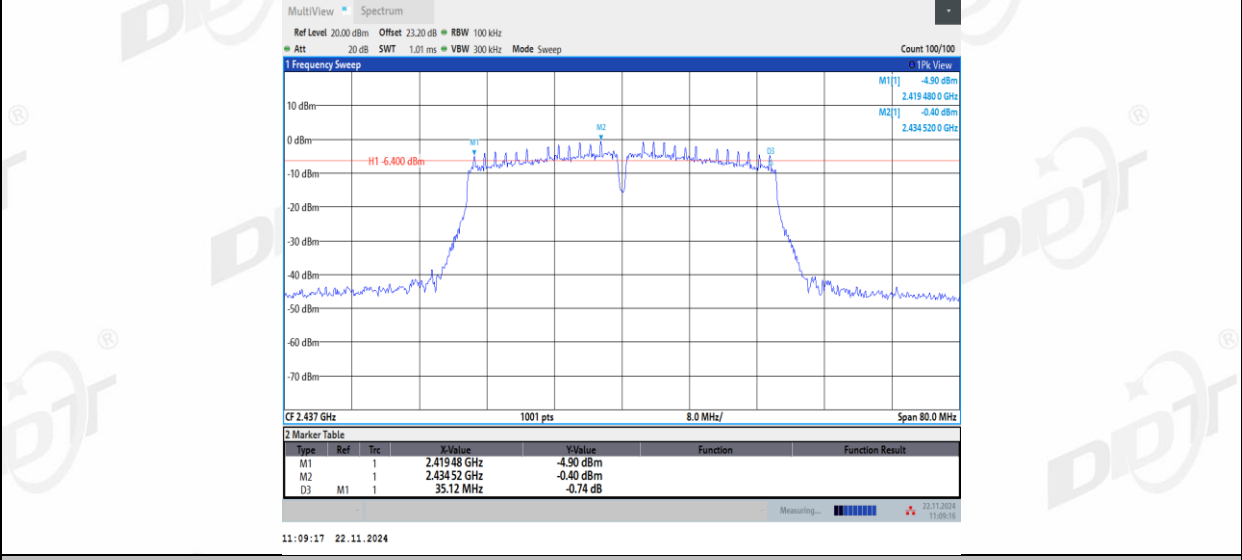
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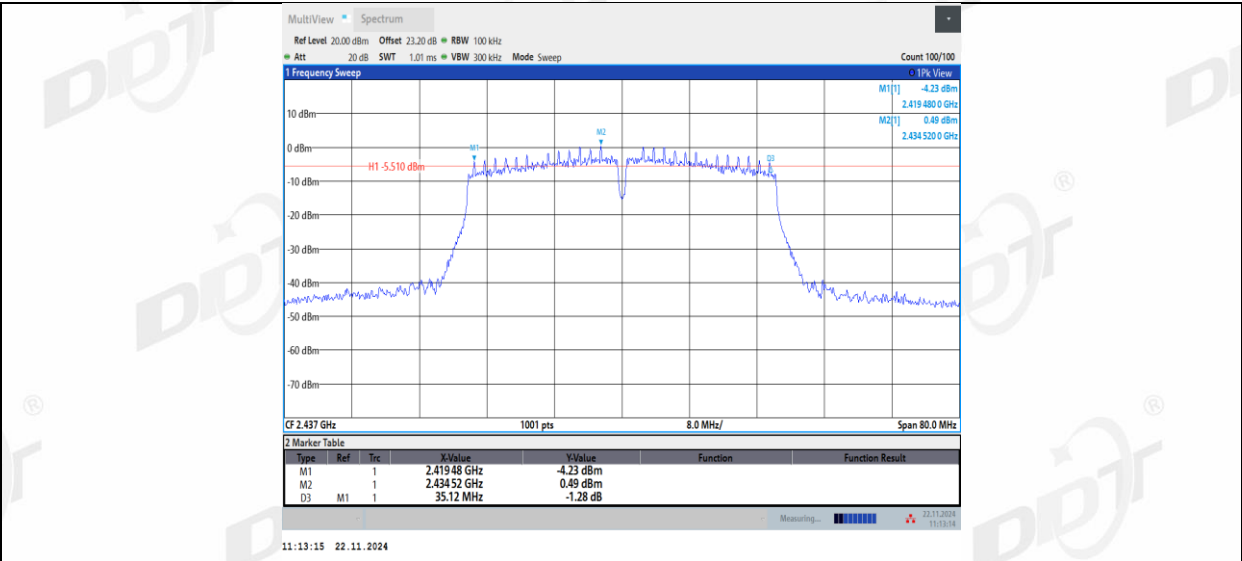
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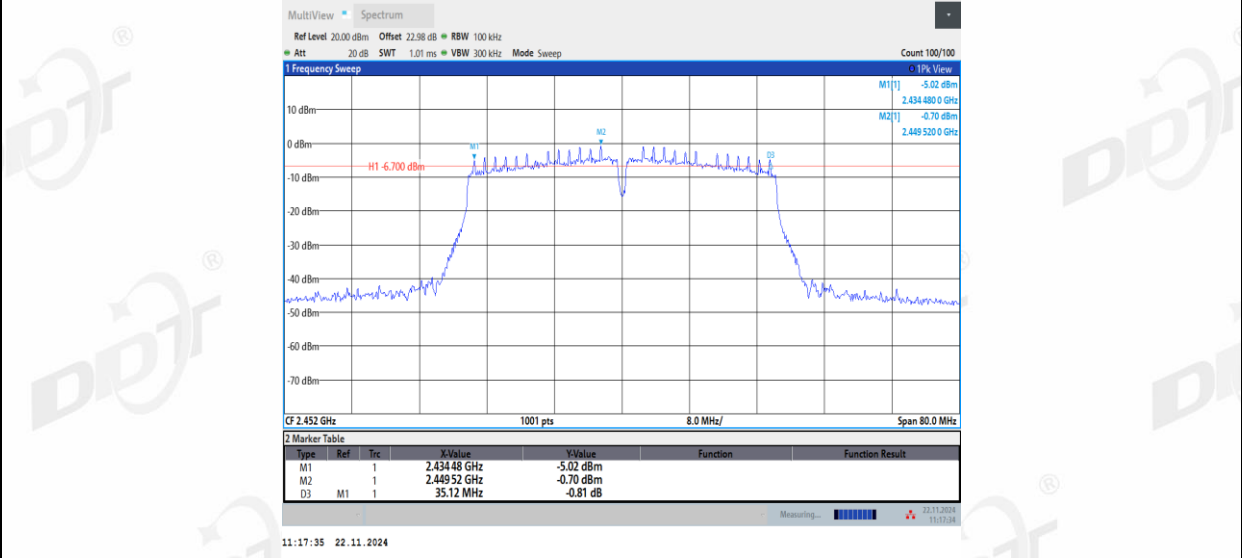
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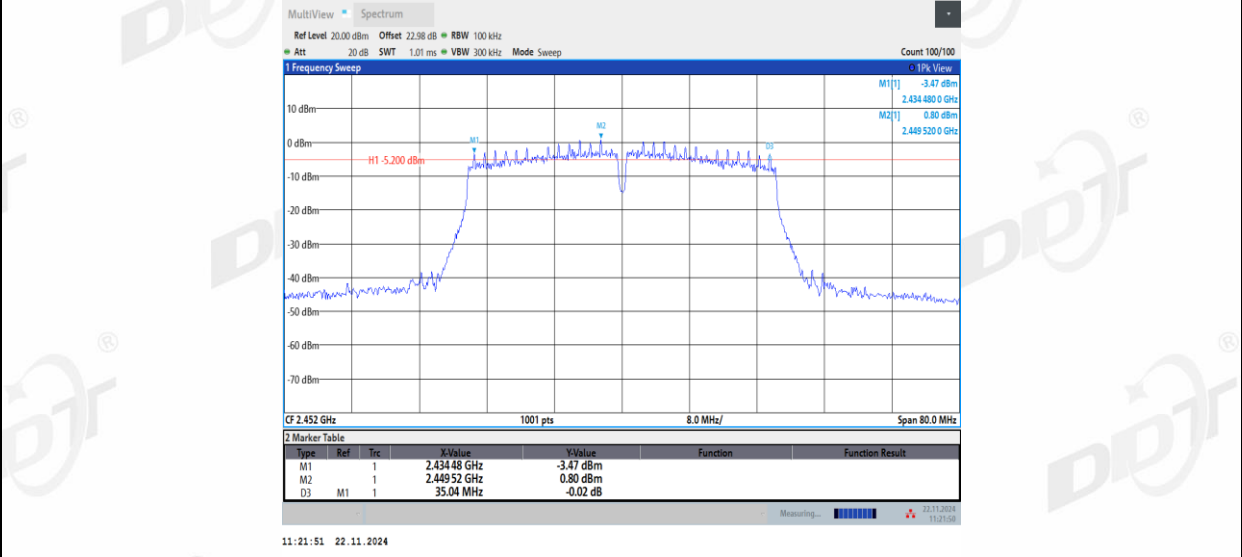
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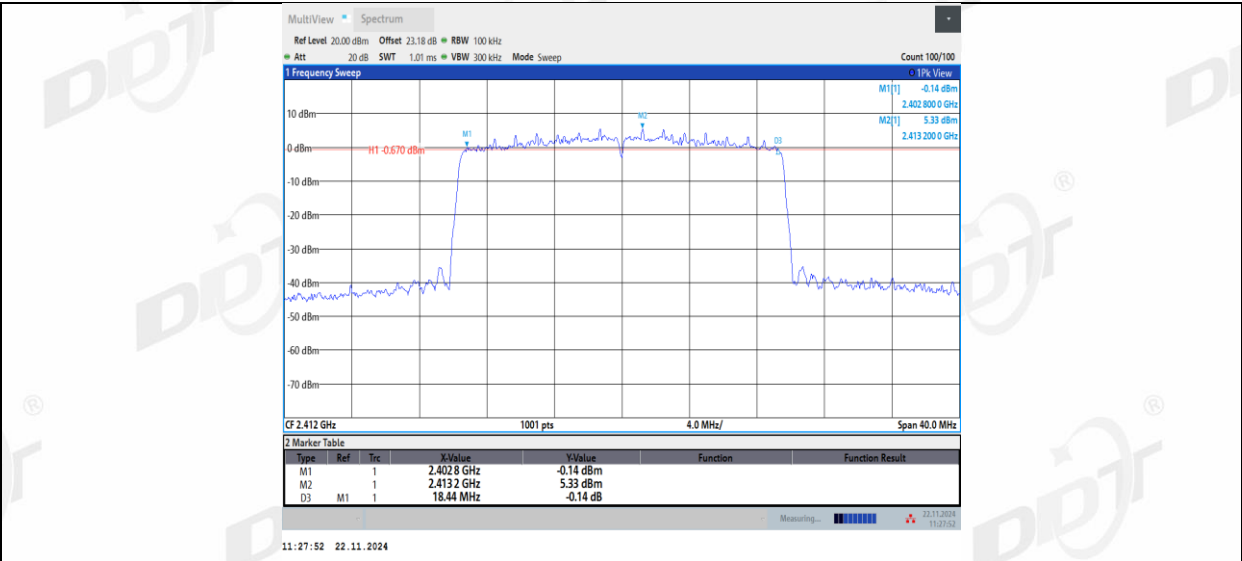
11N40MIMO_Ant1_2452



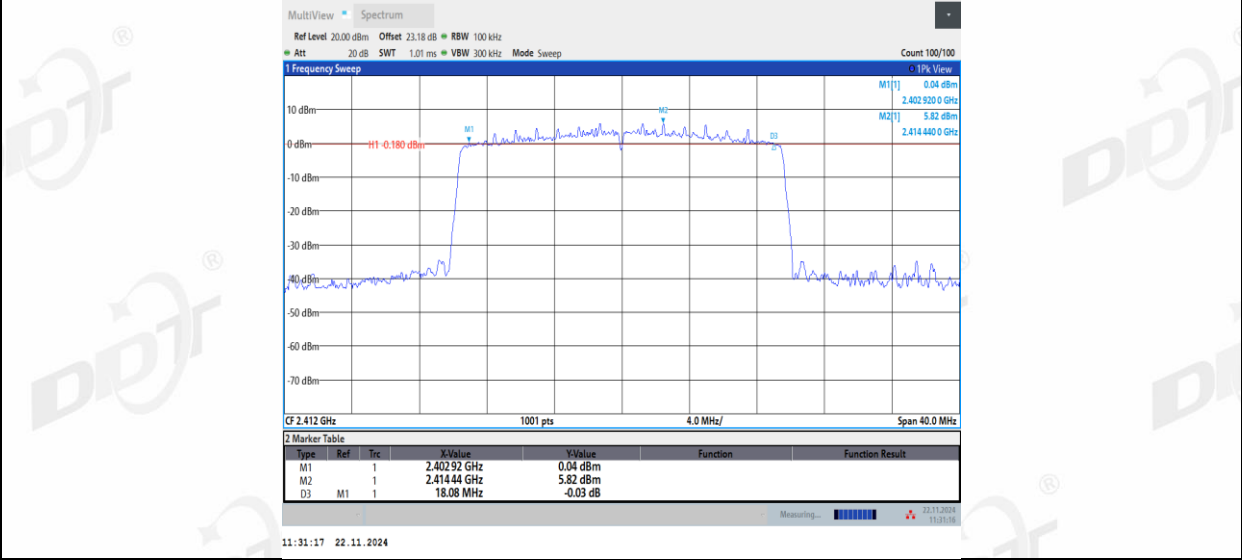
11N40MIMO_Ant2_2452



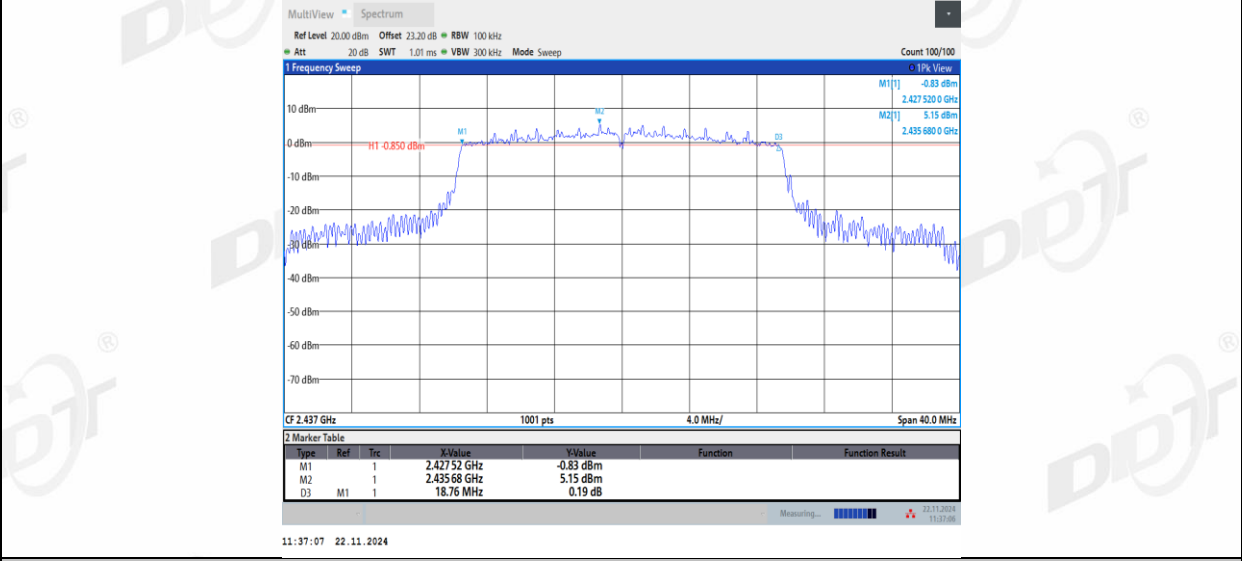
11AX20MIMO_Ant1_2412



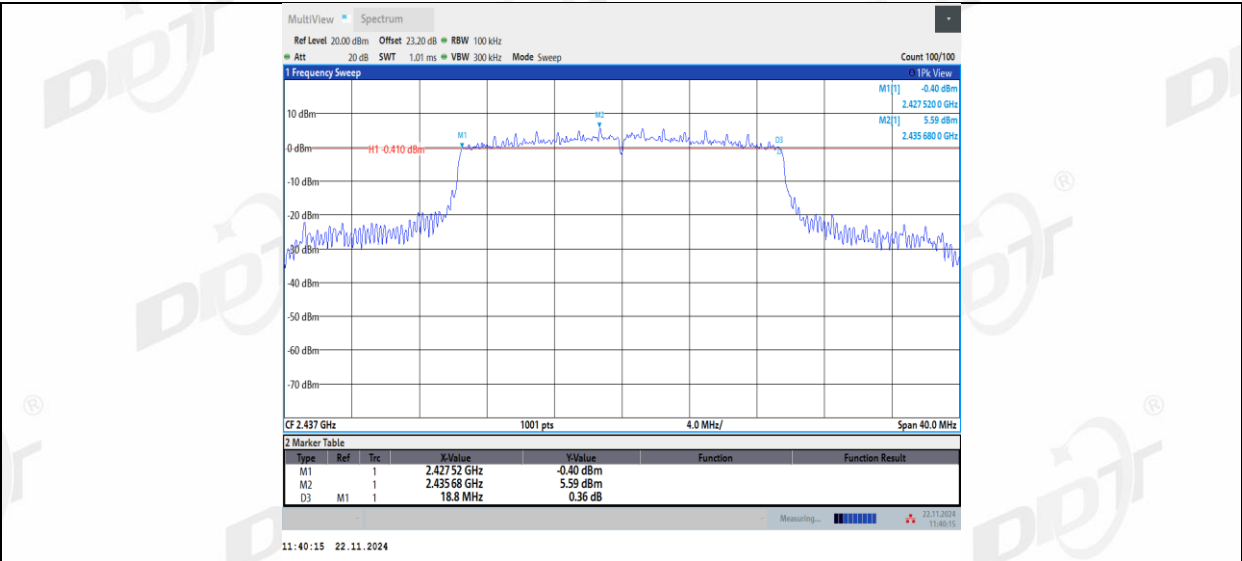
11AX20MIMO_Ant2_2412



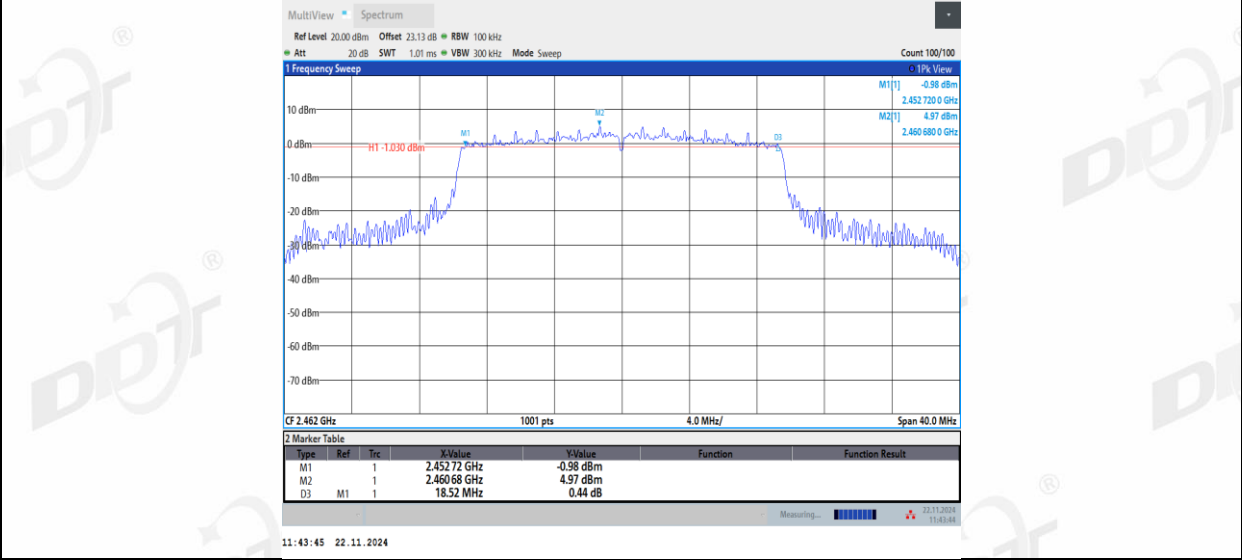
11AX20MIMO_Ant1_2437



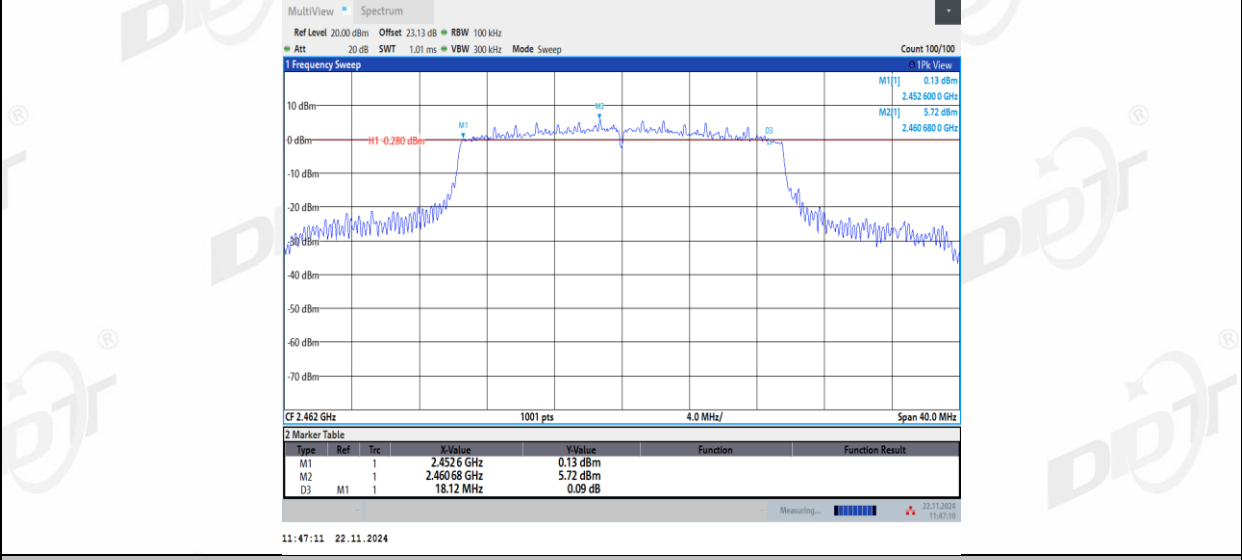
11AX20MIMO_Ant2_2437



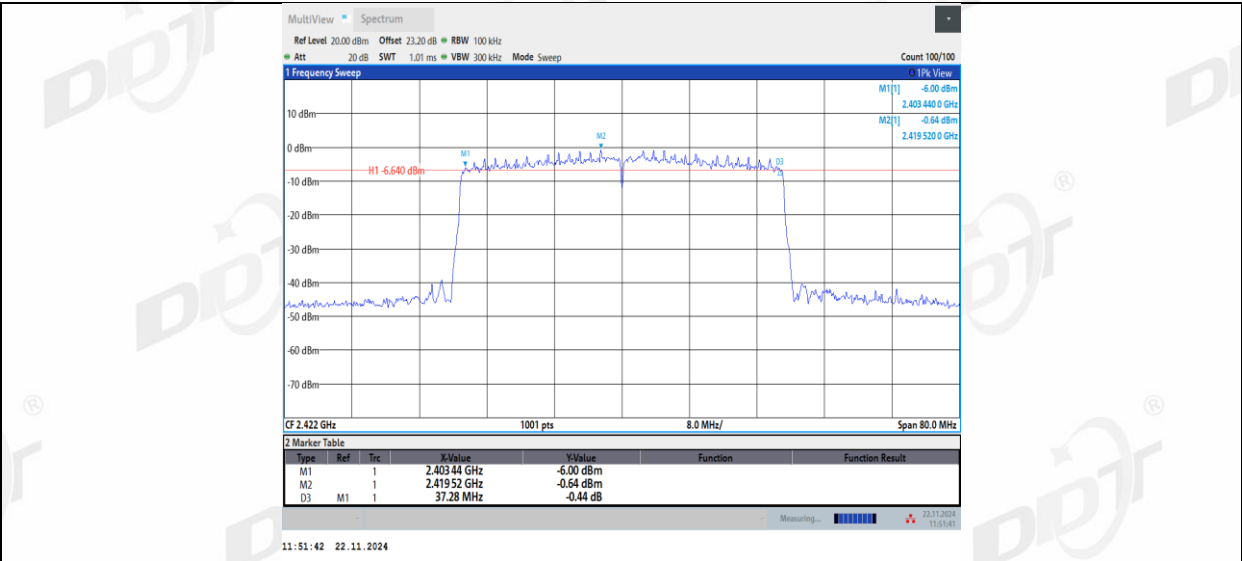
11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462



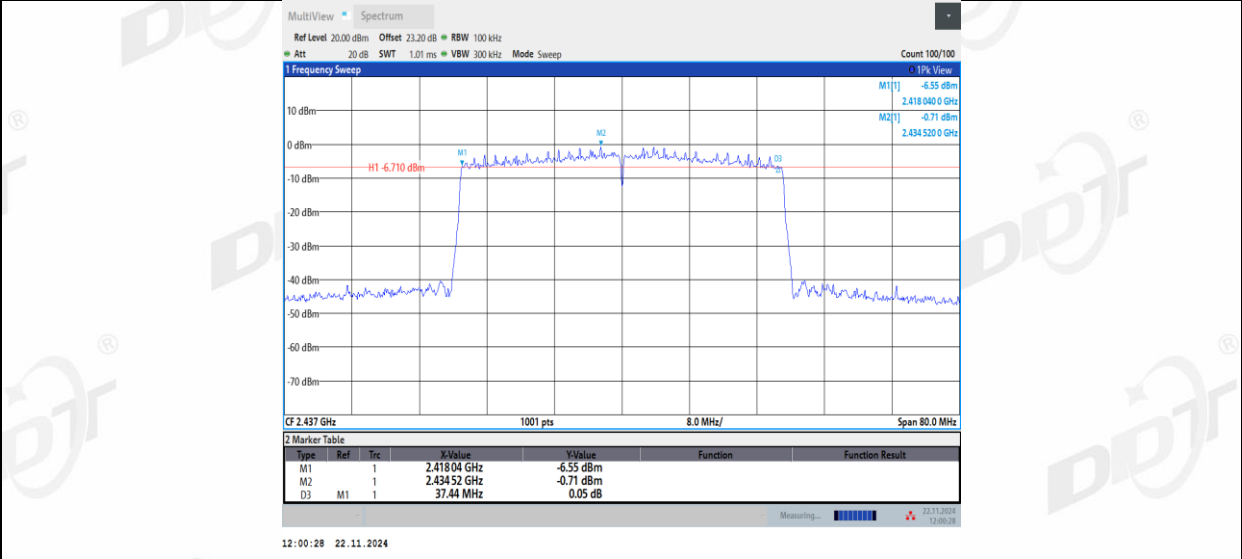
11AX40MIMO_Ant1_2422



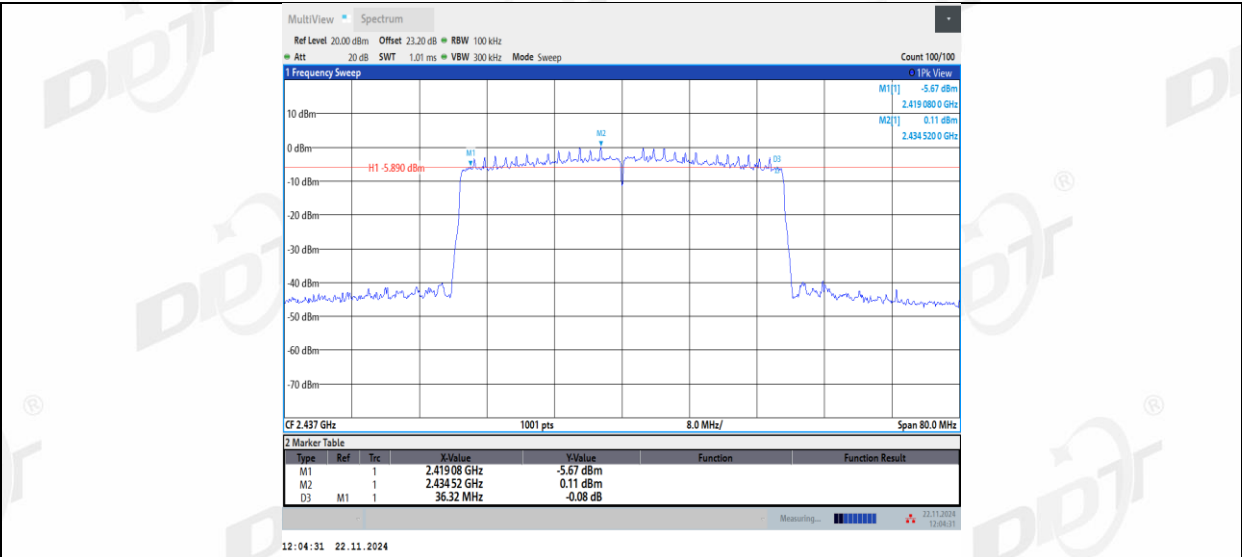
11AX40MIMO_Ant2_2422



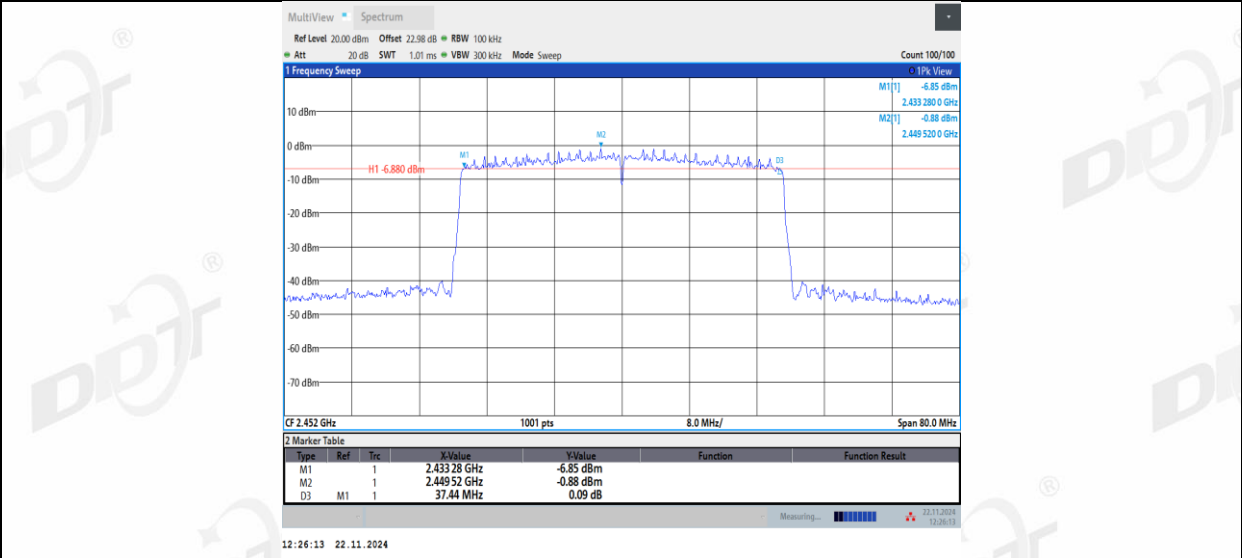
11AX40MIMO_Ant1_2437



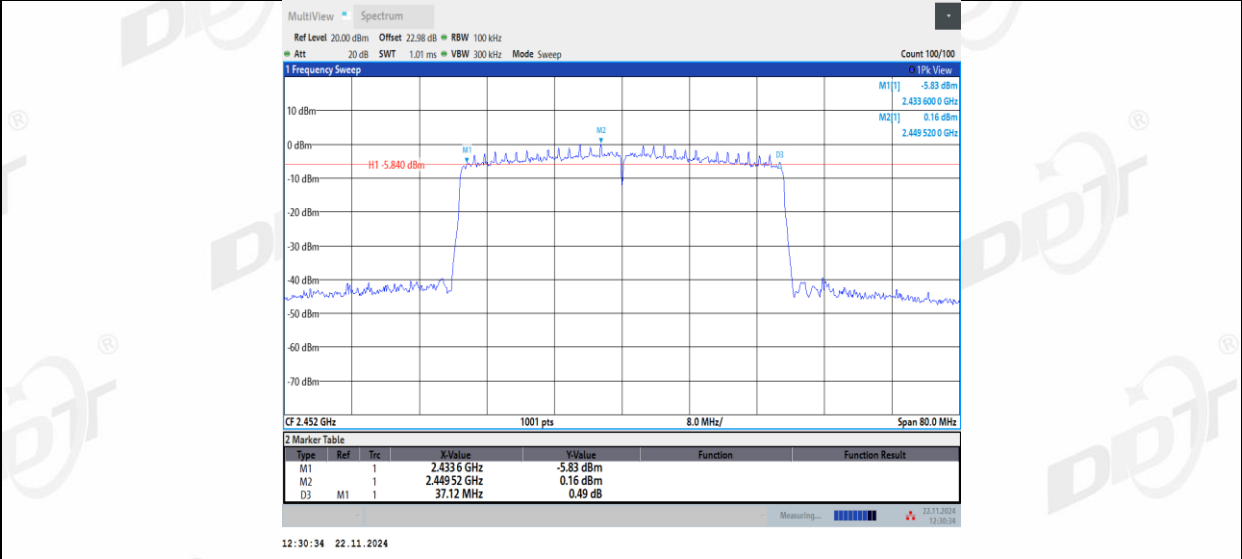
11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452

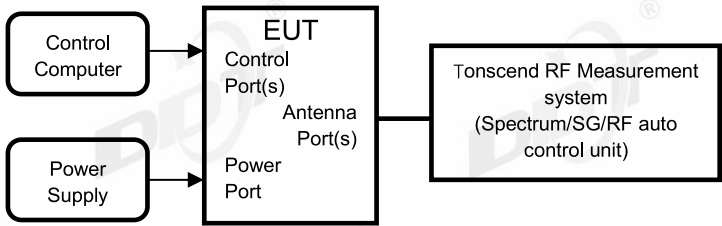


11AX40MIMO_Ant2_2452



5. 99% Bandwidth

5.1. Block diagram of test setup



5.2. Limits

Just for Report.

5.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 6.9.3.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for the 99% Bandwidth:

RBW:	1% to 5% of the OBW
VBW:	approximately three times RBW
Span:	between 1.5 times and 5.0 times the OBW
Detector Mode:	peak
Sweep time:	auto
Trace mode	max hold

Allow the trace to stabilize, measure the 99% bandwidth of signal, and record the results in the report.

5.4. Test result

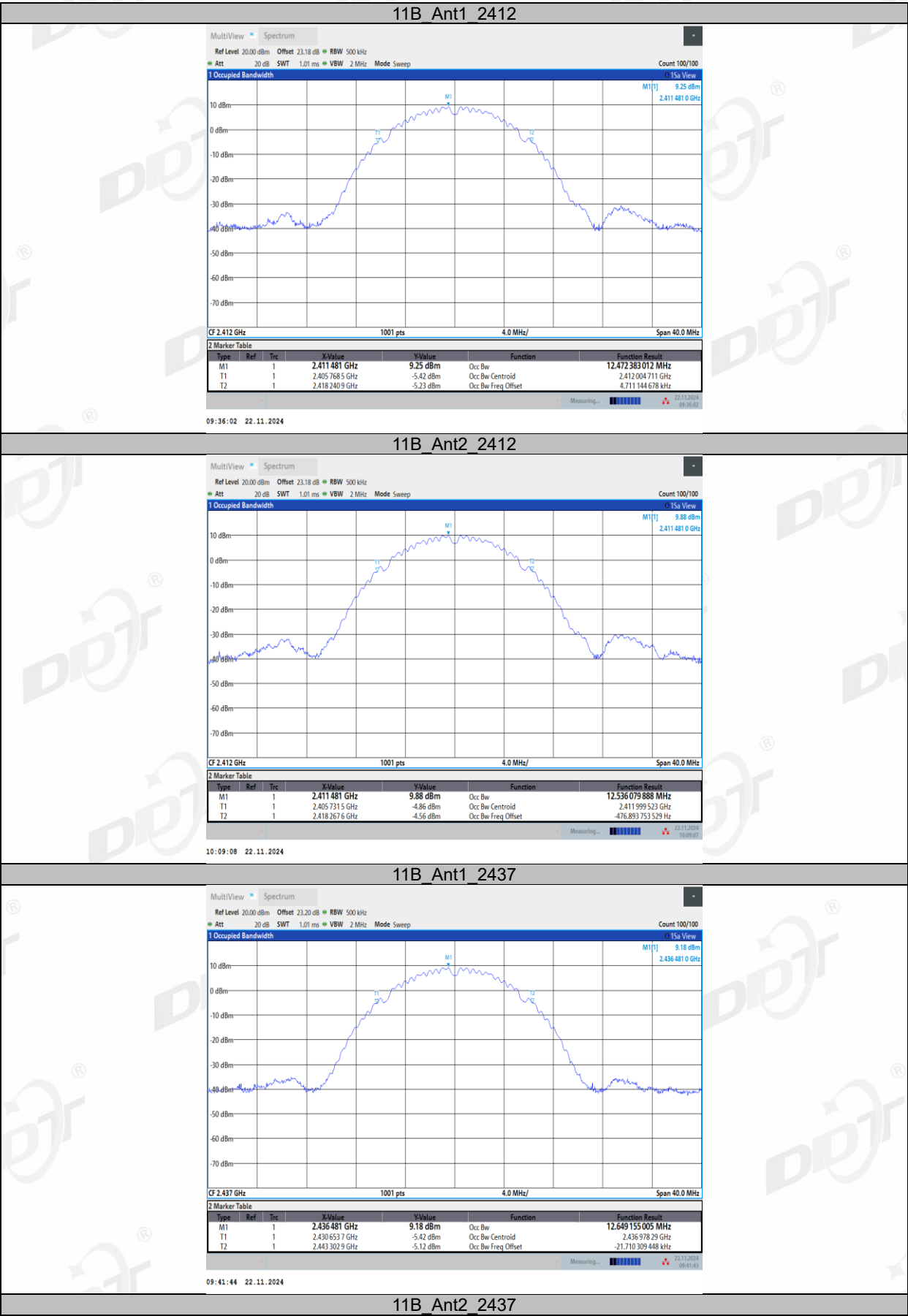
Test Engineer:	Zoe Peng	Test Site:	RF Measurement System 4#
Ambient Condition:	22.3-23.1℃,47.2-49.1%RH	Test Date:	2024.11.22-2024.11.25
Test Power Supply:	AC 100-240V	Sample Number:	S24111522-014

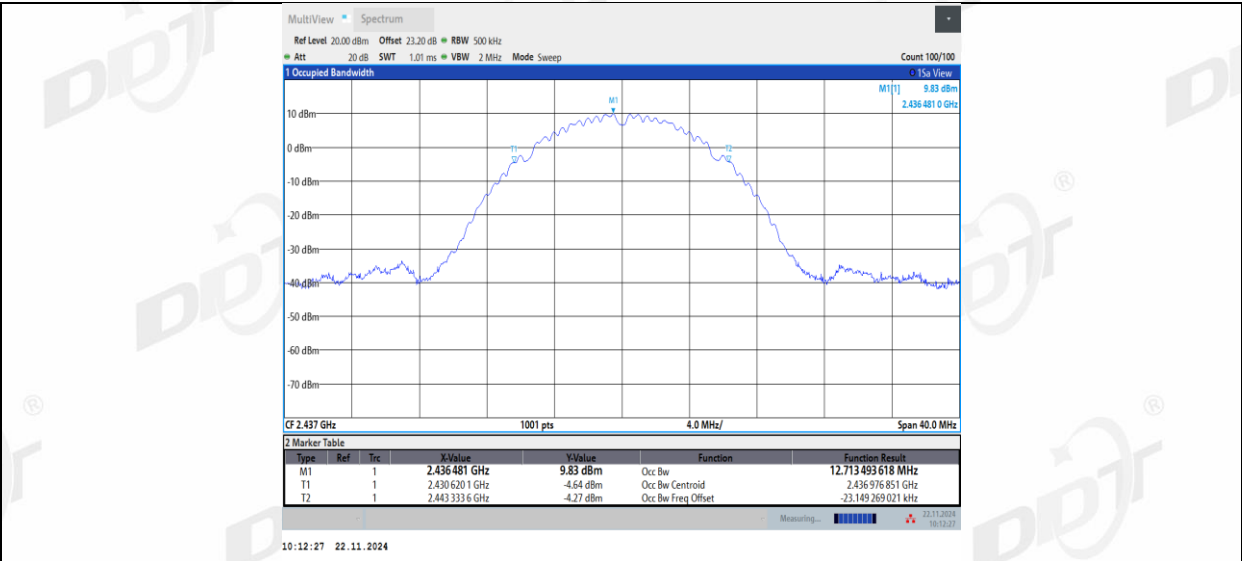
TestMode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.472	2405.7685	2418.2409	---	---
	Ant2	2412	12.536	2405.7315	2418.2676	---	---
	Ant1	2437	12.649	2430.6537	2443.3029	---	---
	Ant2	2437	12.713	2430.6201	2443.3336	---	---
	Ant1	2462	12.621	2455.6695	2468.2905	---	---
	Ant2	2462	12.734	2455.5802	2468.3139	---	---
11G	Ant1	2412	17.104	2403.3995	2420.5031	---	---
	Ant2	2412	17.108	2403.3919	2420.5000	---	---
	Ant1	2437	18.981	2427.3769	2446.3579	---	---
	Ant2	2437	18.944	2427.3881	2446.3317	---	---
	Ant1	2462	19.058	2452.3298	2471.3876	---	---
	Ant2	2462	19.016	2452.3048	2471.3211	---	---
11N20MI MO	Ant1	2412	17.875	2403.0343	2420.9097	---	---
	Ant2	2412	17.659	2403.1325	2420.7916	---	---
	Ant1	2437	19.912	2426.9806	2446.8926	---	---
	Ant2	2437	18.441	2427.6286	2446.0696	---	---
	Ant1	2462	19.895	2451.9953	2471.8905	---	---
	Ant2	2462	18.497	2452.5827	2471.0795	---	---
11N40MI MO	Ant1	2422	36.144	2403.9462	2440.0899	---	---
	Ant2	2422	36.196	2403.9132	2440.1091	---	---
	Ant1	2437	36.156	2418.8813	2455.0377	---	---
	Ant2	2437	36.175	2418.8661	2455.0414	---	---
	Ant1	2452	36.14	2433.9149	2470.0550	---	---
	Ant2	2452	36.204	2433.8326	2470.0364	---	---
11AX20M IMO	Ant1	2412	18.853	2402.5472	2421.3998	---	---
	Ant2	2412	18.868	2402.5668	2421.4344	---	---
	Ant1	2437	19.332	2427.2829	2446.6152	---	---
	Ant2	2437	19.267	2427.3372	2446.6044	---	---
	Ant1	2462	19.266	2452.3282	2471.5939	---	---
	Ant2	2462	19.261	2452.2956	2471.5564	---	---
11AX40M IMO	Ant1	2422	37.713	2403.1351	2440.8480	---	---
	Ant2	2422	37.805	2403.0744	2440.8794	---	---
	Ant1	2437	37.761	2418.0722	2455.8331	---	---
	Ant2	2437	37.737	2418.0959	2455.8331	---	---
	Ant1	2452	37.717	2433.0646	2470.7819	---	---
	Ant2	2452	37.812	2433.0611	2470.8734	---	---

Test Mode	Ant.	Freq. [MHz]	Ru Size	Ru Index	OBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11AX20 MIMO	Ant1	2412	26Tone	RU0	18.257	2402.2124	2420.4696	---	---
				RU4	17.013	2403.4534	2420.4666	---	---
				RU8	18.284	2403.4551	2421.7392	---	---
			52Tone	RU37	18.15	2402.3477	2420.4978	---	---
				RU39	17.093	2403.4158	2420.5085	---	---
				RU40	18.185	2403.4527	2421.6379	---	---
			106Tone	RU53	18.226	2402.3571	2420.5828	---	---
				RU54	18.212	2403.3806	2421.5925	---	---
	Ant2	2412	26Tone	RU0	18.288	2402.2042	2420.4922	---	---
				RU4	16.97	2403.4844	2420.4541	---	---
				RU8	18.277	2403.4817	2421.7591	---	---
			52Tone	RU37	18.19	2402.3194	2420.5096	---	---
				RU39	17.031	2403.4685	2420.5000	---	---
				RU40	18.135	2403.4958	2421.6304	---	---
			106Tone	RU53	18.182	2402.3515	2420.5333	---	---

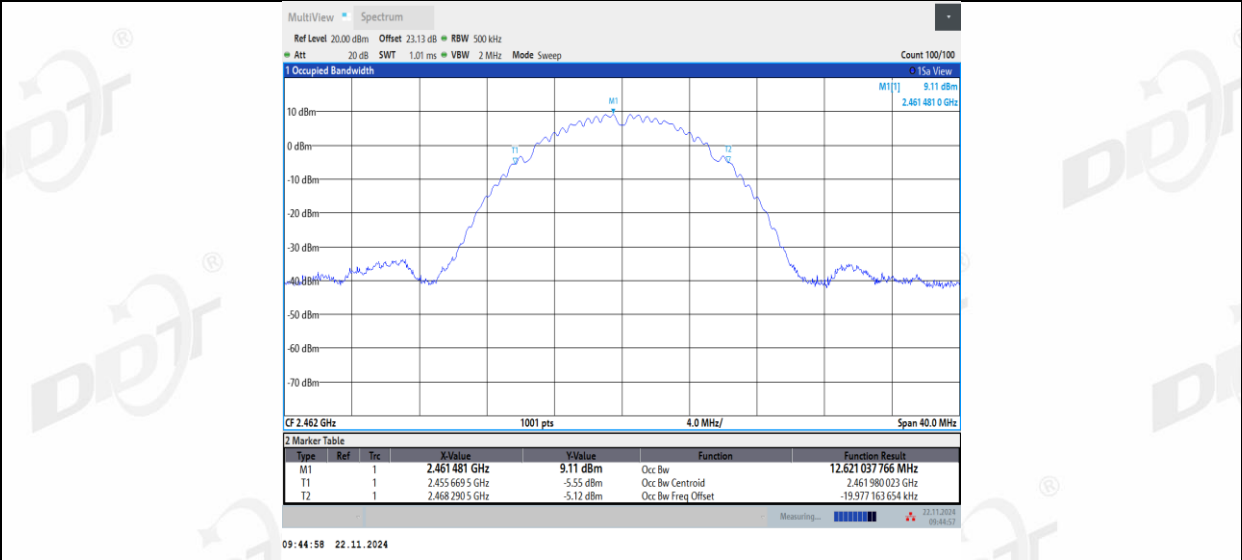
11AX40 MIMO	Ant1	2437	26Tone	RU54	18.15	2403.4306	2421.5810	---	---
				RU0	19.33	2426.1892	2445.5190	---	---
				RU4	17.144	2428.3853	2445.5293	---	---
				RU8	19.237	2428.3924	2447.6295	---	---
			52Tone	RU37	19.102	2426.4622	2445.5638	---	---
				RU39	17.292	2428.3443	2445.6363	---	---
				RU40	19.026	2428.3445	2447.3707	---	---
			106Tone	RU53	18.636	2426.9924	2445.6287	---	---
				RU54	18.762	2428.2977	2447.0602	---	---
	Ant2	2437	26Tone	RU0	19.166	2426.3395	2445.5060	---	---
				RU4	17.14	2428.3797	2445.5193	---	---
				RU8	19.173	2428.3947	2447.5672	---	---
			52Tone	RU37	18.979	2426.5913	2445.5705	---	---
				RU39	17.296	2428.3318	2445.6276	---	---
				RU40	18.986	2428.3334	2447.3198	---	---
			106Tone	RU53	18.543	2427.0495	2445.5924	---	---
				RU54	18.665	2428.3408	2447.0058	---	---
	Ant1	2462	26Tone	RU0	19.341	2451.1921	2470.5326	---	---
				RU4	17.166	2453.3842	2470.5505	---	---
				RU8	19.241	2453.4154	2472.6562	---	---
			52Tone	RU37	19	2451.5772	2470.5775	---	---
				RU39	17.294	2453.3528	2470.6471	---	---
				RU40	18.995	2453.3721	2472.3670	---	---
			106Tone	RU53	18.812	2451.8551	2470.6668	---	---
				RU54	18.828	2453.2871	2472.1151	---	---
	Ant2	2462	26Tone	RU0	19.171	2451.3200	2470.4914	---	---
				RU4	17.131	2453.3887	2470.5197	---	---
				RU8	19.109	2453.3760	2472.4849	---	---
			52Tone	RU37	19.074	2451.4759	2470.5501	---	---
				RU39	17.306	2453.3169	2470.6230	---	---
				RU40	19.019	2453.3453	2472.3647	---	---
			106Tone	RU53	18.644	2451.9569	2470.6011	---	---
				RU54	18.723	2453.3031	2472.0257	---	---
11AX40 MIMO	Ant1	2422	242Tone	RU61	27.95	2402.7641	2430.7140	---	---
				RU62	26.152	2415.0333	2441.1851	---	---
	Ant2	2422	242Tone	RU61	25.36	2402.7748	2428.1344	---	---
				RU62	22.839	2418.3437	2441.1831	---	---
	Ant1	2437	242Tone	RU61	24.922	2417.7465	2442.6689	---	---
				RU62	25.831	2430.3691	2456.1996	---	---
	Ant2	2437	242Tone	RU61	24.255	2417.7616	2442.0169	---	---
				RU62	23.958	2432.2376	2456.1958	---	---
	Ant1	2452	242Tone	RU61	24.481	2432.7667	2457.2479	---	---
				RU62	27.205	2443.9764	2471.1815	---	---
	Ant2	2452	242Tone	RU61	23.216	2432.7461	2455.9618	---	---
				RU62	24.427	2446.7693	2471.1960	---	---

5.5. Test graphs

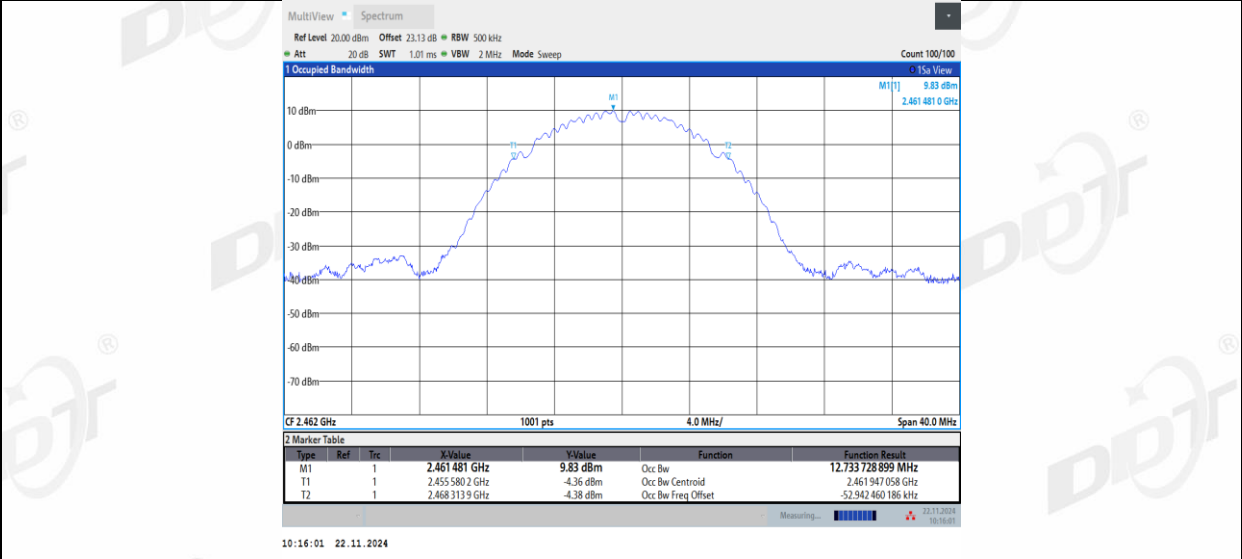




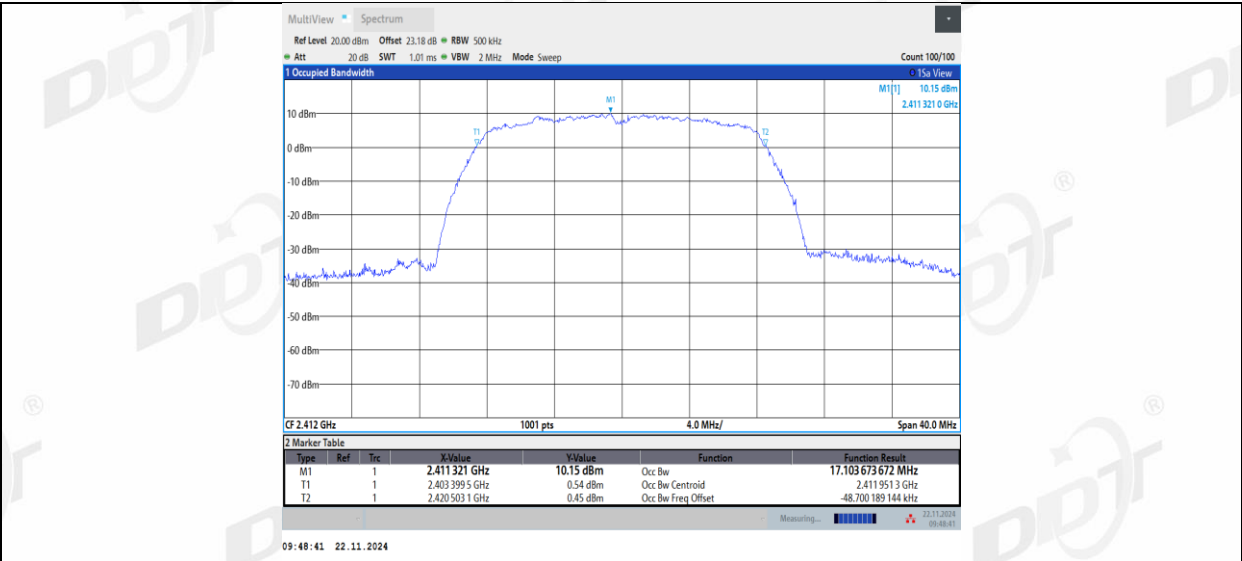
11B_Ant1_2462



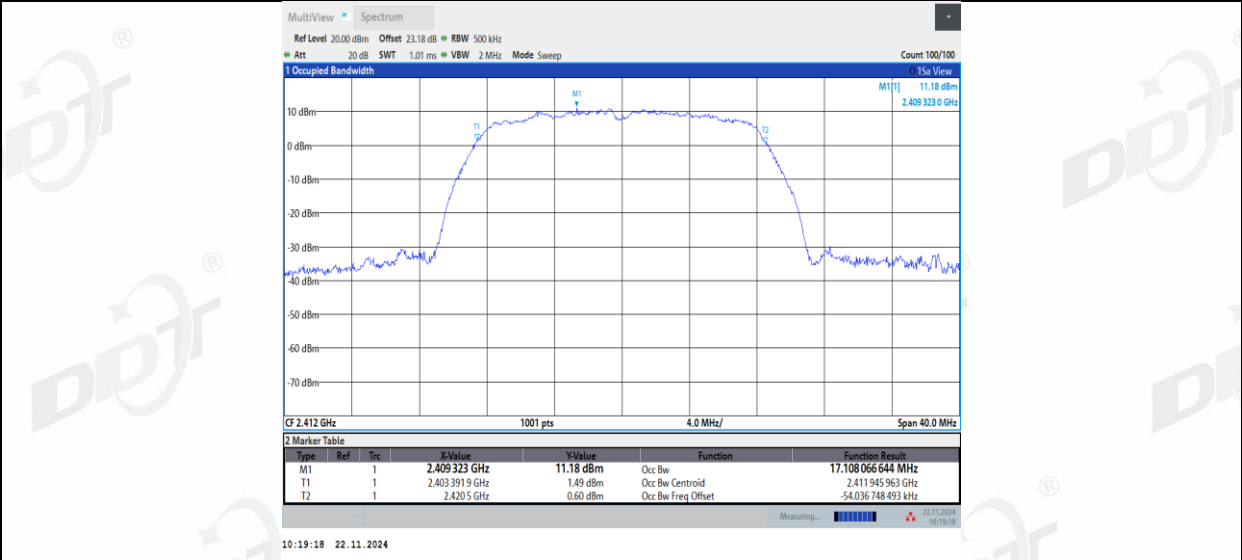
11B_Ant2_2462



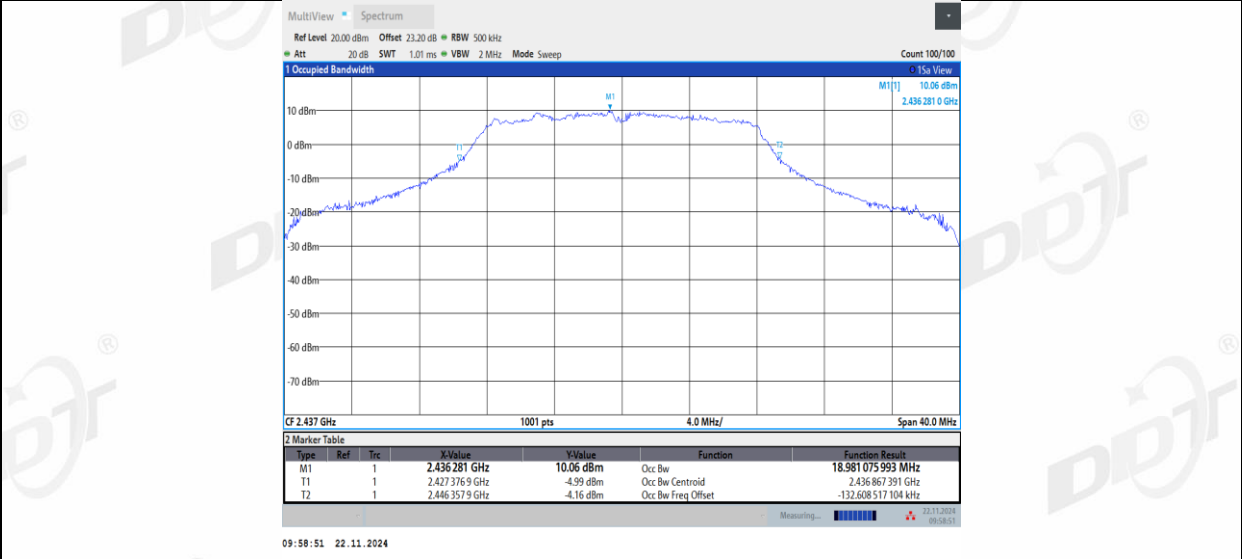
11G_Ant1_2412



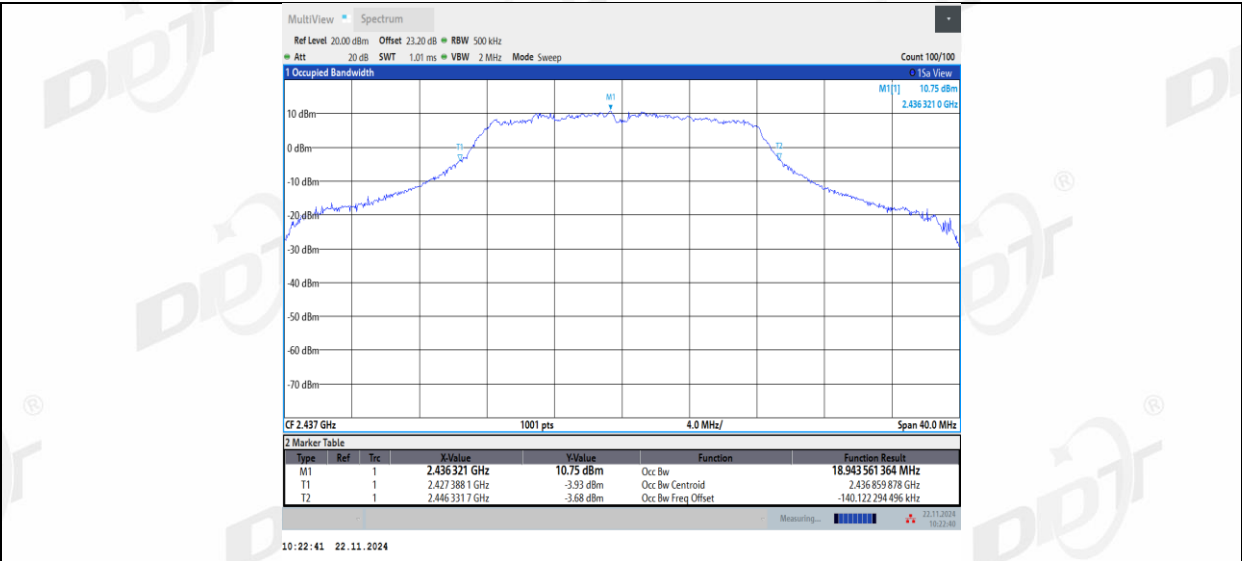
11G_Ant2_2412



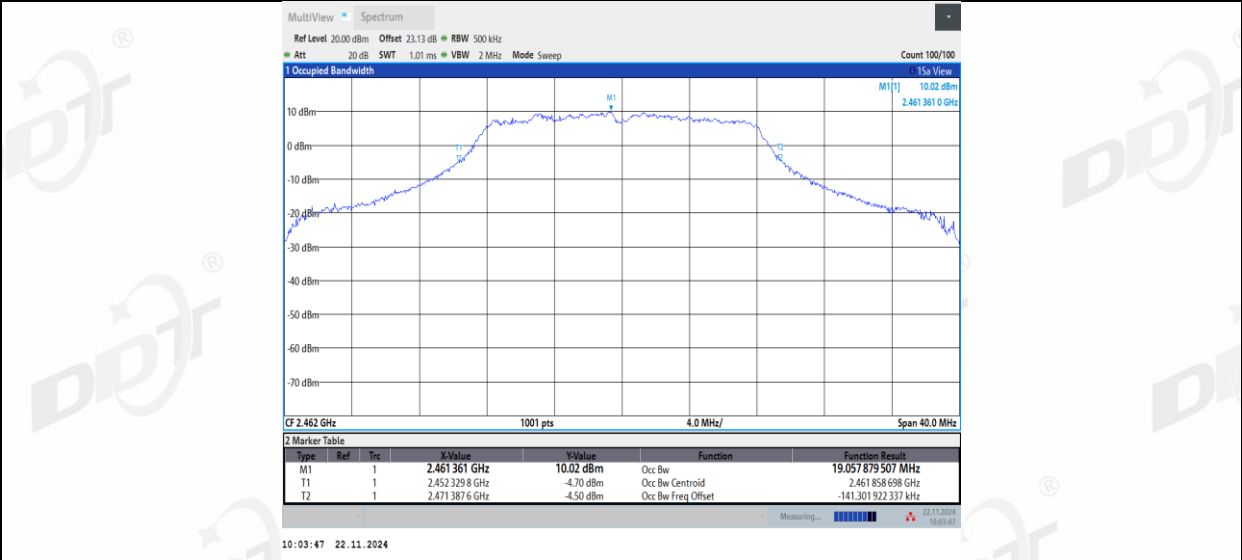
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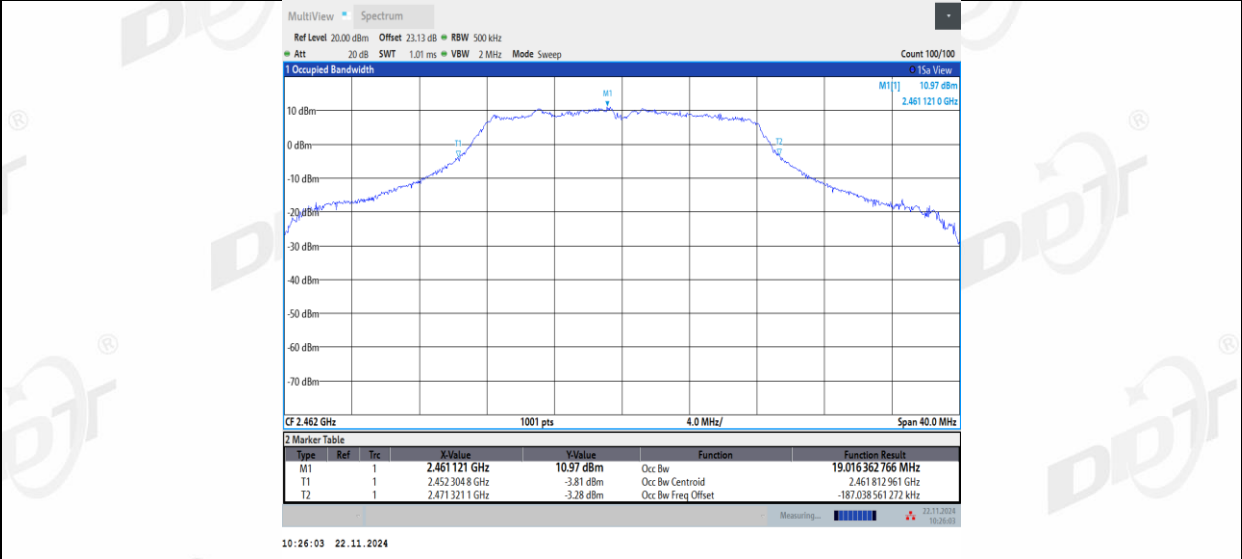
11G_Ant2_2437



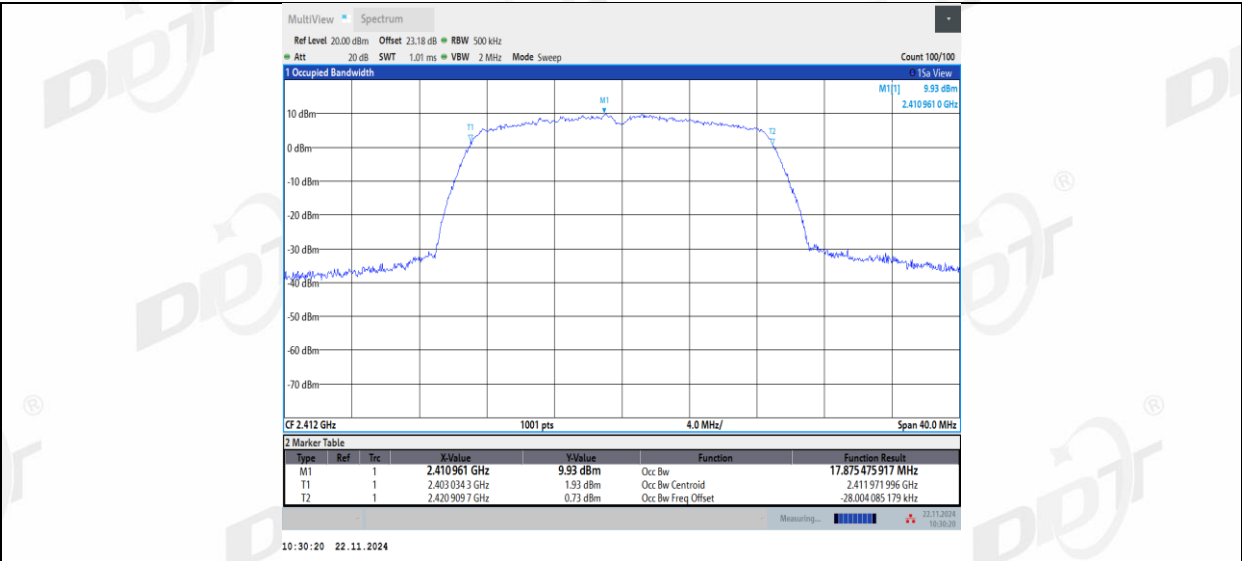
11G_Ant1_2462



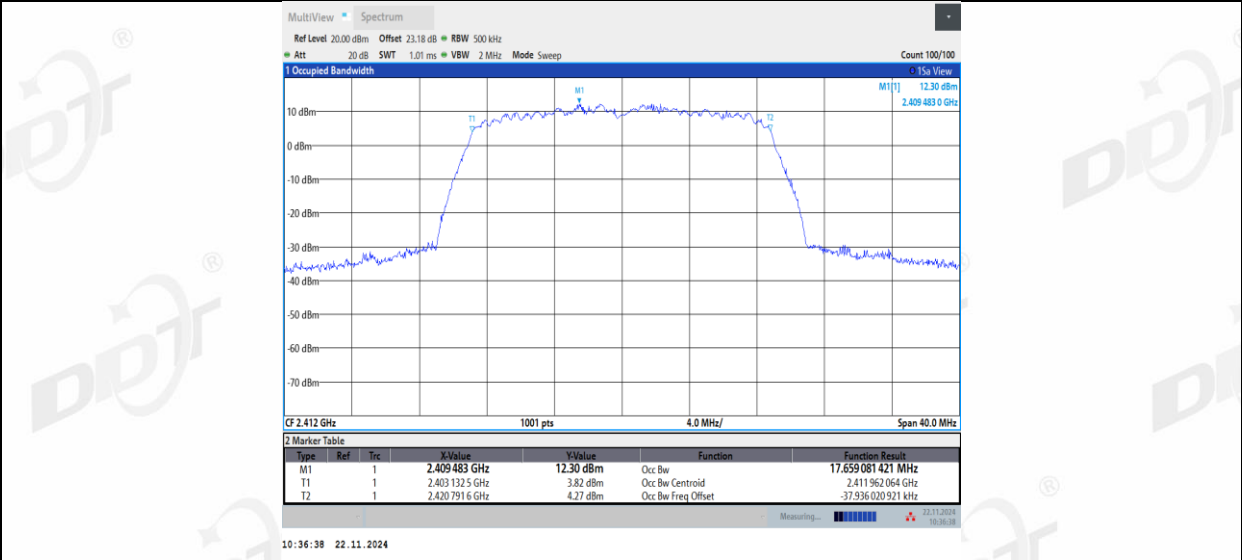
11G_Ant2_2462



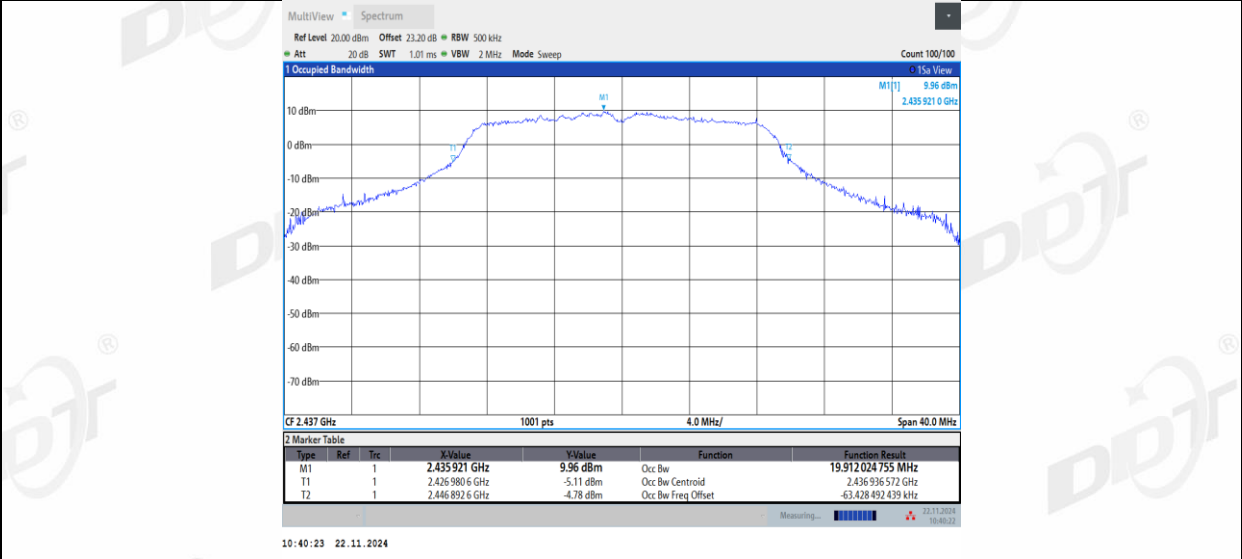
11N20MIMO_Ant1_2412



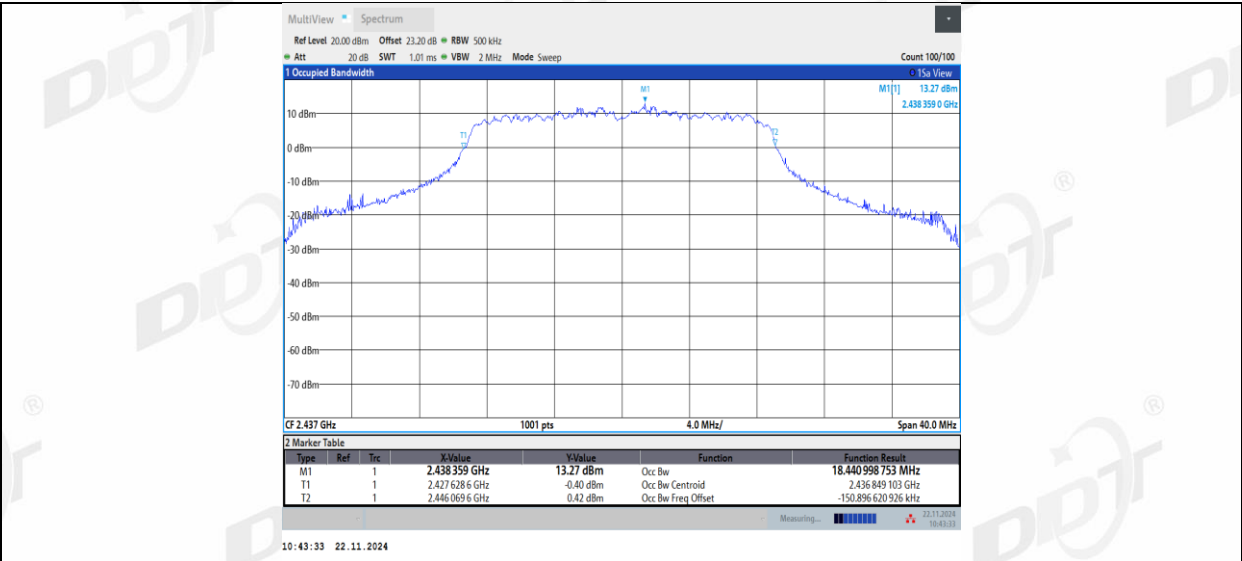
11N20MIMO_Ant2_2412



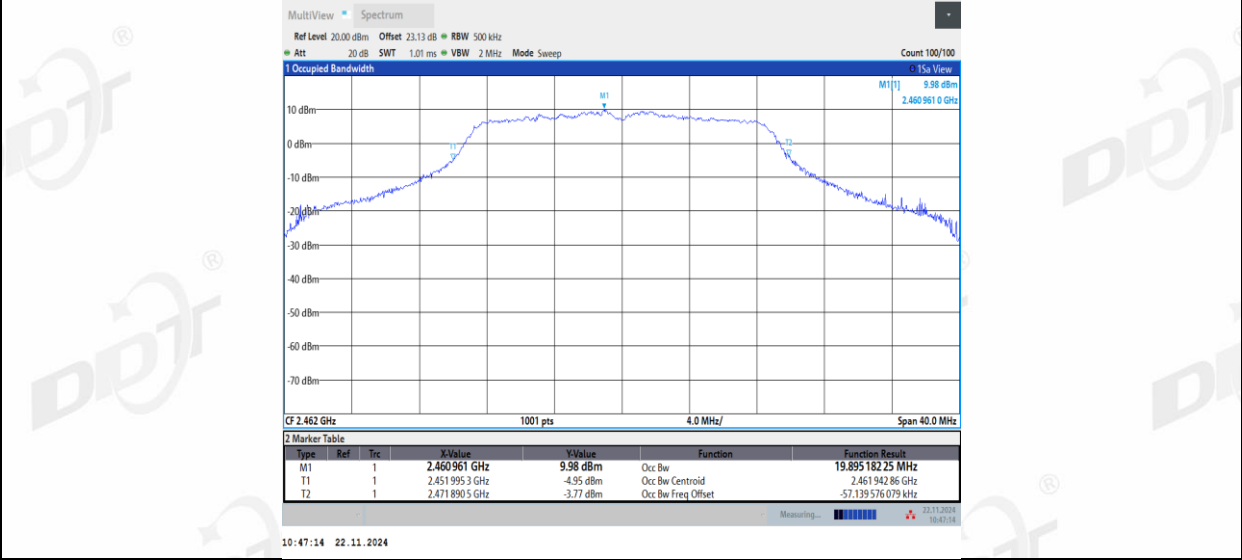
11N20MIMO_Ant1_2437



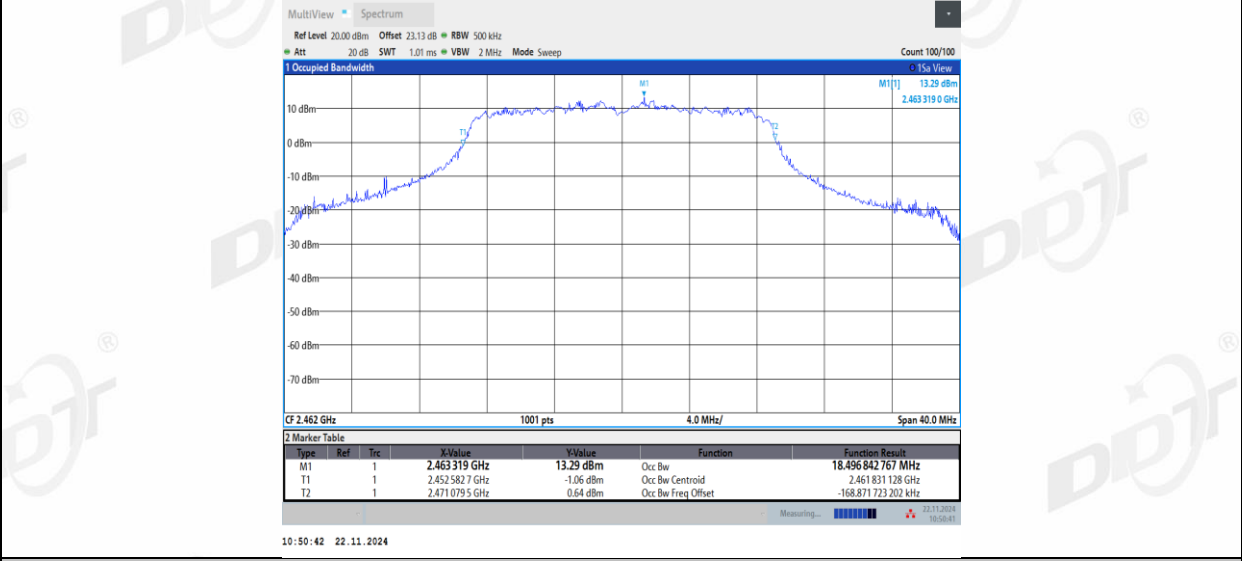
11N20MIMO_Ant2_2437



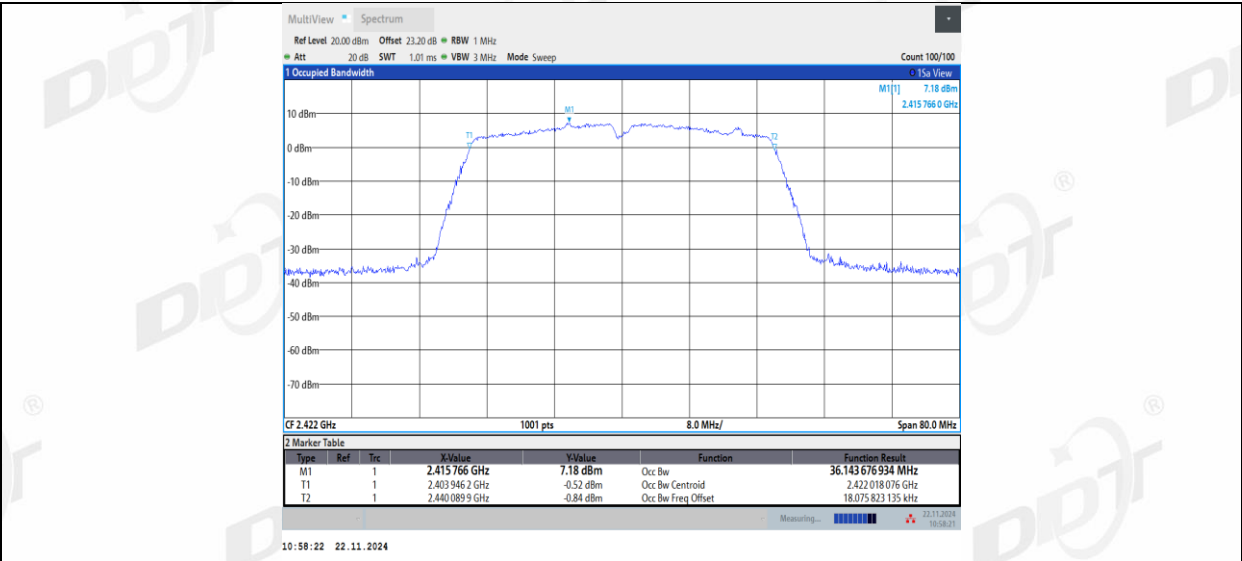
11N20MIMO_Ant1_2462



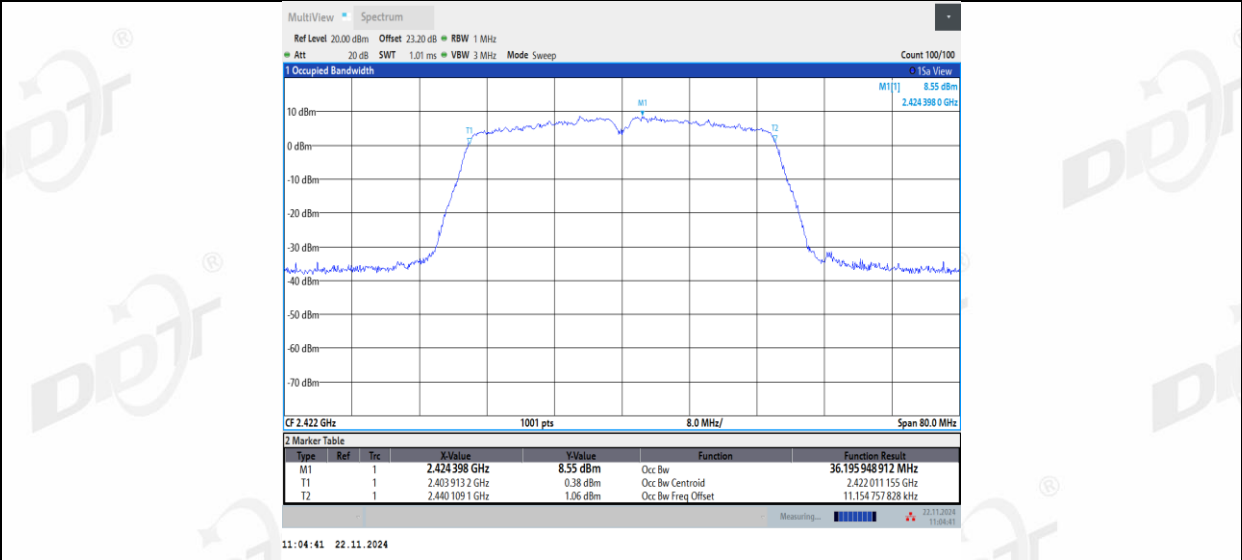
11N20MIMO_Ant2_2462



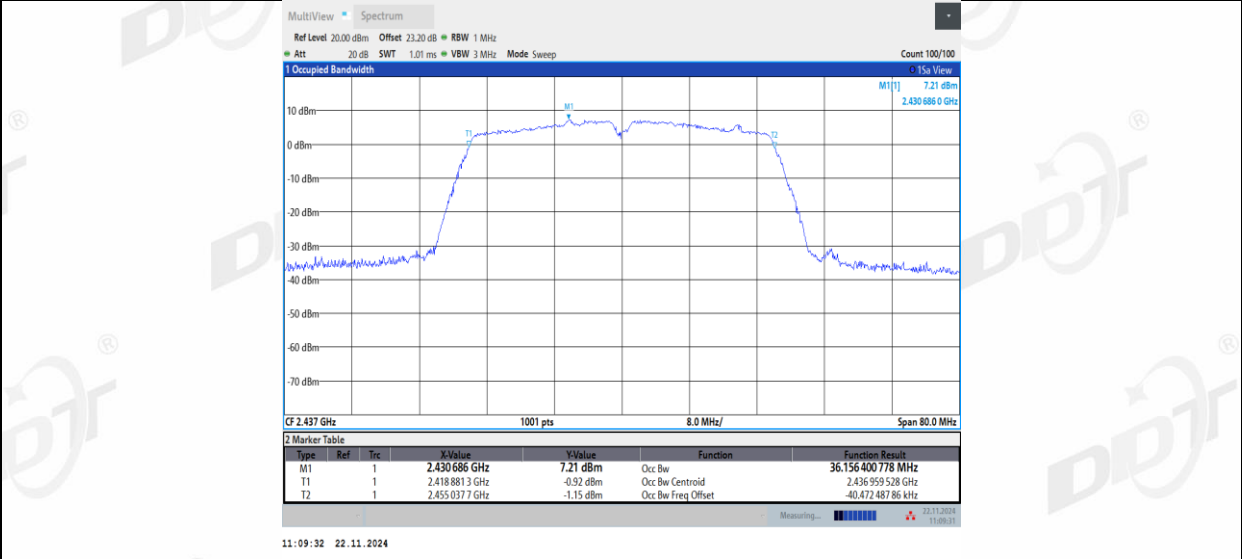
11N40MIMO_Ant1_2422



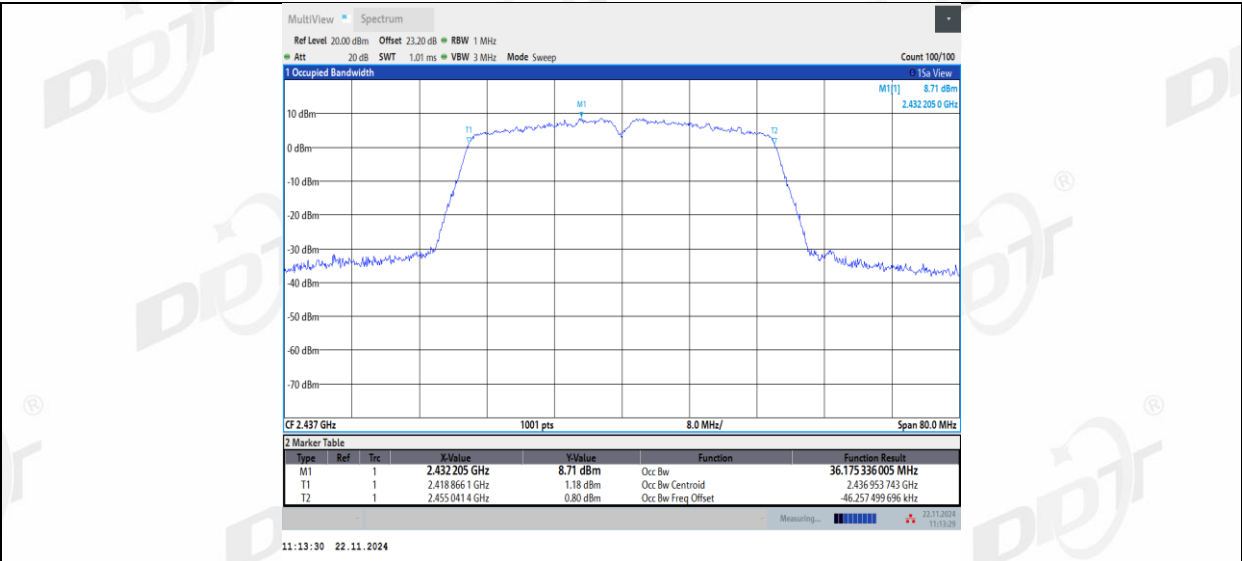
11N40MIMO_Ant2_2422



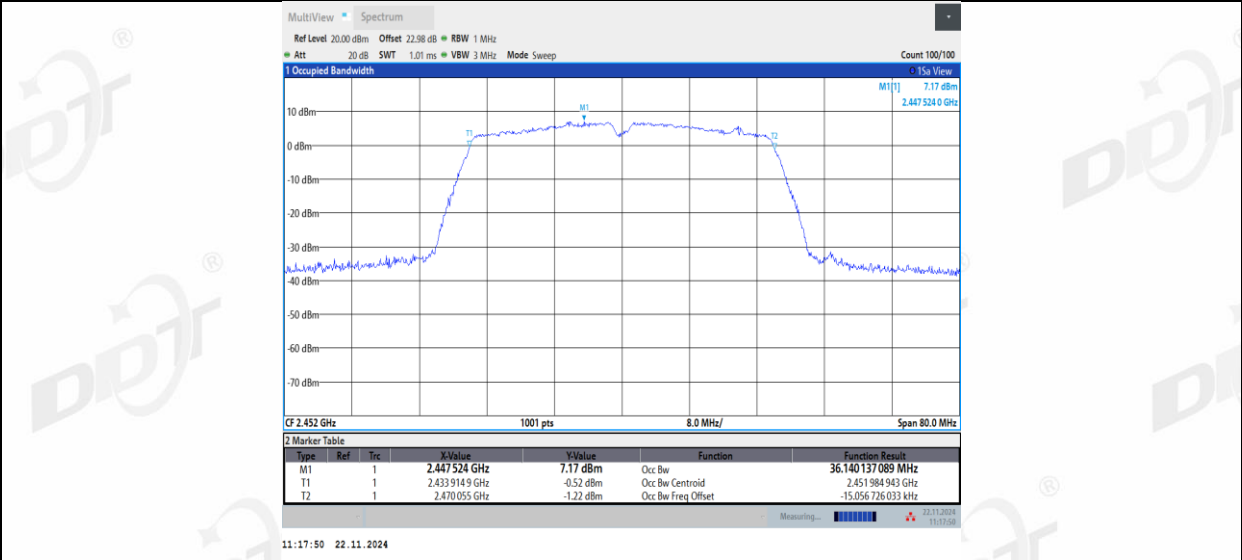
11N40MIMO_Ant1_2437



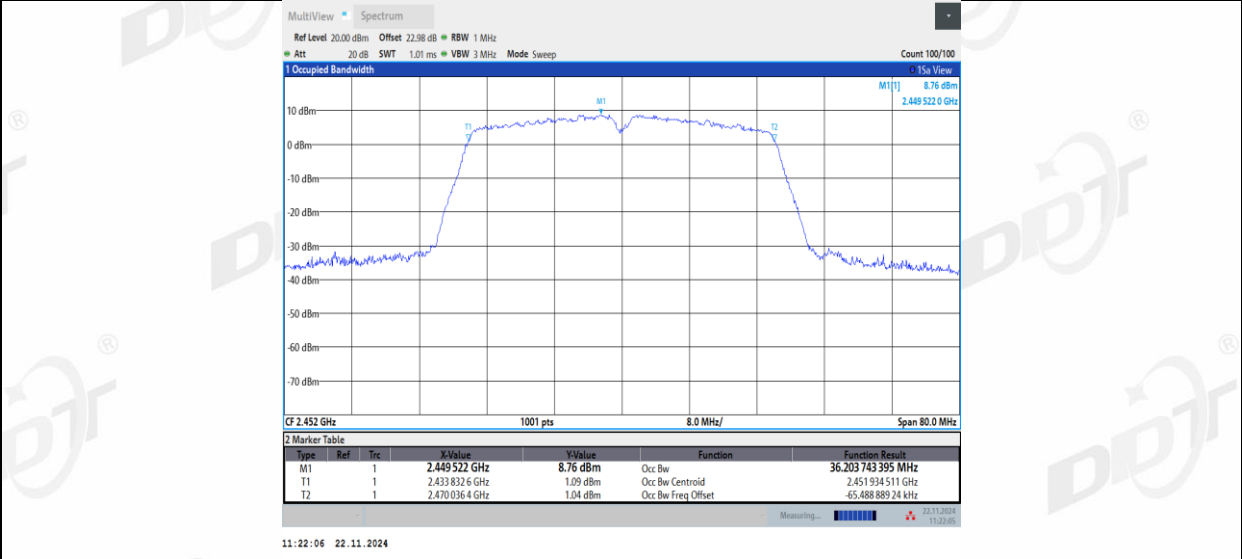
11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



11AX20MIMO_Ant1_2412