



FCC AND ISCED CERTIFICATION TEST REPORT

Applicant	:	Ruijie Networks Co., Ltd.
Address of Applicant	:	Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China
Manufacturer	:	Ruijie Networks Co., Ltd.
Address of Manufacturer	:	Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China
Equipment under Test	:	Wireless Access Point
Model No.	:	RG-RAP73Pro
FCC ID	:	2AX5J-RAP73PRO
IC	:	27676-RAP73PRO
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) 558074 D01 15.247 Meas Guidance v05r02, 662911 D01 Multiple Transmitter Output v02r01
Report No.	:	DDT-RE24032709-1E01
Issue Date	:	2024/06/15
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

Applicant	:	Ruijie Networks Co., Ltd.
Address of Applicant	:	Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China
Equipment under Test	:	Wireless Access Point
Model No.	:	RG-RAP73Pro
Manufacturer	:	Ruijie Networks Co., Ltd.
Address of Manufacturer	:	Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China

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)
558074 D01 15.247 Meas Guidance v05r02, 662911 D01 Multiple Transmitter Output v02r01

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-RE24032709-1E01		
Date of Receipt:	2024/04/01	Date of Test:	2024/04/01~2024/06/15

Prepared By:**Tiger Mo/Engineer****Approved By:****Damon Hu/EMC Manager**

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

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/06/15	

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	: Wireless Access Point
Model Number	: RG-RAP73Pro
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 54V 0.55A is powered by an external adapter or PoE 54V DC

Note: This EUT support 2.4 GHz WLAN, 5 GHz WLAN, 6 GHz WLAN, this report only for 2.4 GHz WLAN.

Radio Technology	: IEEE 802.11b/g/n/ax/be
Operation frequency	: IEEE 802.11b: 2412MHz-2462MHz IEEE 802.11g: 2412MHz-2462MHz IEEE 802.11n HT20: 2412MHz-2462MHz IEEE 802.11n HT40: 2422MHz-2452MHz IEEE 802.11ax HE20: 2412MHz-2462MHz IEEE 802.11ax HE40: 2422MHz-2452MHz IEEE 802.11be EHT20: 2412MHz-2462MHz IEEE 802.11be EHT40: 2422MHz-2452MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE20, HE40: OFDMA (1024QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11be EHT20, EHT40: OFDMA (1024QAM, 64QAM, 16QAM, QPSK, BPSK)

Antenna information					
Antenna Type	PIFA Antenna				
Max Antenna Gain(dBi)		Ant1 gain	Ant2 gain	Directional gain(dBi)	
				Power	PSD
	IEEE 802.11b	3.99	3.99	/	/
	IEEE 802.11g	3.99	3.99	3.99	7.00
	IEEE 802.11n HT20	3.99	3.99	3.99	7.00
	IEEE 802.11n HT40	3.99	3.99	3.99	7.00
	IEEE 802.11ax HE20	3.99	3.99	3.99	7.00
	IEEE 802.11ax HE40	3.99	3.99	3.99	7.00
	IEEE 802.11be EHT20	3.99	3.99	3.99	7.00
	IEEE 802.11be EHT40	3.99	3.99	3.99	7.00

Note: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

Directional gain = GANT + Array Gain, where Array Gain is as follows:

1)For power spectral density (PSD) measurements on all devices.

Array Gain = $10 \log (NANT / Nss)$ dB;

2)For power measurements on IEEE 802.11 devices.

Array Gain = 0 dB for $NANT < 4$;

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	/	/

For this device,

802.11 ax only support full RU mode.

802.11be support small size RU, as below,

Indices for Small Size MRUs in an OFDMA 20 MHz EHT PPDU

MRU type	MRU index	MRU combination
52+26-tone MRU	MRU 1	52-tone RU 2 + 26-tone RU 2
	MRU 2	52-tone RU 2 + 26-tone RU 5
	MRU 3	52-tone RU 3 + 26-tone RU 8
106+26-tone MRU	MRU 1	106-tone RU 1 + 26-tone RU 5
	MRU 2	106-tone RU 2 + 26-tone RU 5

Indices for Small Size MRUs in an OFDMA 40 MHz EHT PPDU

MRU type	MRU index	MRU combination
52+26-tone MRU	MRU 1	52-tone RU 2 + 26-tone RU 2
	MRU 2	52-tone RU 2 + 26-tone RU 5
	MRU 3	52-tone RU 3 + 26-tone RU 8
	MRU 4	52-tone RU 6 + 26-tone RU 11
	MRU 5	52-tone RU 6 + 26-tone RU 14
	MRU 6	52-tone RU 7 + 26-tone RU 17
106+26-tone MRU	MRU 1	106-tone RU 1 + 26-tone RU 5
	MRU 2	106-tone RU 2 + 26-tone RU 5
	MRU 3	106-tone RU 3 + 26-tone RU 14
	MRU 4	106-tone RU 4 + 26-tone RU 14

Note1: 1. 802.11be support full RU tone and partial RU tone, both full RU and partial RU are tested for conducted power/PSD, according to TCB Workshop, if Partial_RU PSD < Full_RU PSD, perform additional testing on that Partial_RU modes for band edge and spurious emissions.

2. According to above MRU combination, 52+26_Tone MRU (Index 1, 2 and 3) represents 52+26_Tone MRU (Index 4, 5 and 6), so Partial_RU modes tested MRU combination 52+26_Tone MRU (Index 1, 2 and 3), 106+26_Tone MRU (Index 1, 2, 3 and 4)

Note2: 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

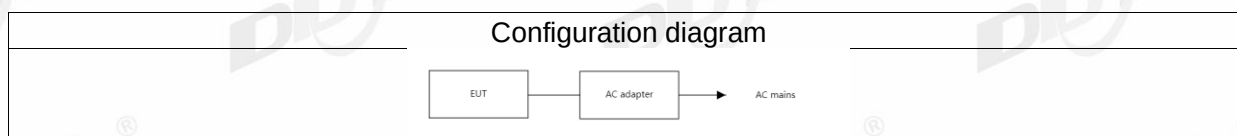
the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” 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
Power Adapter	Xiamen keli Electronics Co., Ltd	KL-D540111-T	INPUT:100-240V~ 50/60Hz 1.5A MAX OUTPUT:DC 54.0V/1.11A 60.0W

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: QATool_20230105C.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, channel, and data rate information					
Mode	Setting Tx Power		Data rate (Mbps) (see Note)	Channel	Frequency (MHz)
	ANT1	ANT2			
IEEE 802.11b	17	17	1	LCH: CH1	2412
	17	17	1	MCH: CH6	2437
	17	17	1	HCH: CH11	2462
IEEE 802.11g	14	14	6	LCH: CH1	2412
	14	14	6	MCH: CH6	2437
	14	14	6	HCH: CH11	2462
IEEE 802.11n HT20	15	15	MCS 8	LCH: CH1	2412
	15	15	MCS 8	MCH: CH6	2437
	15	15	MCS 8	HCH: CH11	2462
IEEE 802.11n HT40	13	13	MCS 8	LCH: CH3	2422
	13	13	MCS 8	MCH: CH6	2437
	13	13	MCS 8	HCH: CH9	2452
IEEE 802.11ax HE20	16	16	MCS 0	LCH: CH1	2412
	16	16	MCS 0	MCH: CH6	2437
	16	16	MCS 0	HCH: CH11	2462

IEEE 802.11ax HE40	13	13	MCS 0	LCH: CH3	2422
	13	13	MCS 0	MCH: CH6	2437
	13	13	MCS 0	HCH: CH9	2452
IEEE 802.11 be EHT20	14	14	MCS 0	LCH: CH1	2412
	14	14	MCS 0	MCH: CH6	2437
	14	14	MCS 0	HCH: CH11	2462
IEEE 802.11 be EHT40	13	13	MCS 0	LCH: CH3	2422
	13	13	MCS 0	MCH: CH6	2437
	13	13	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-20155, G-20118

2.8. Measurement uncertainty

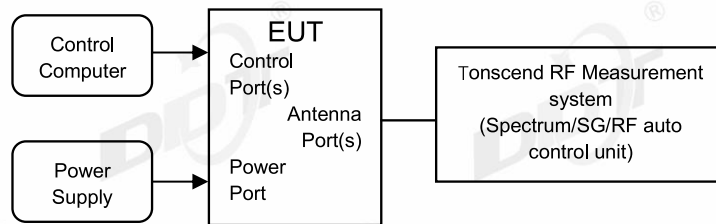
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method) 5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$) 1.66 dB ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
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	2024/09/05
RF Control Unit	Tonsend	JS0806-2	2118060485	2025/03/31
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2024/05/14 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

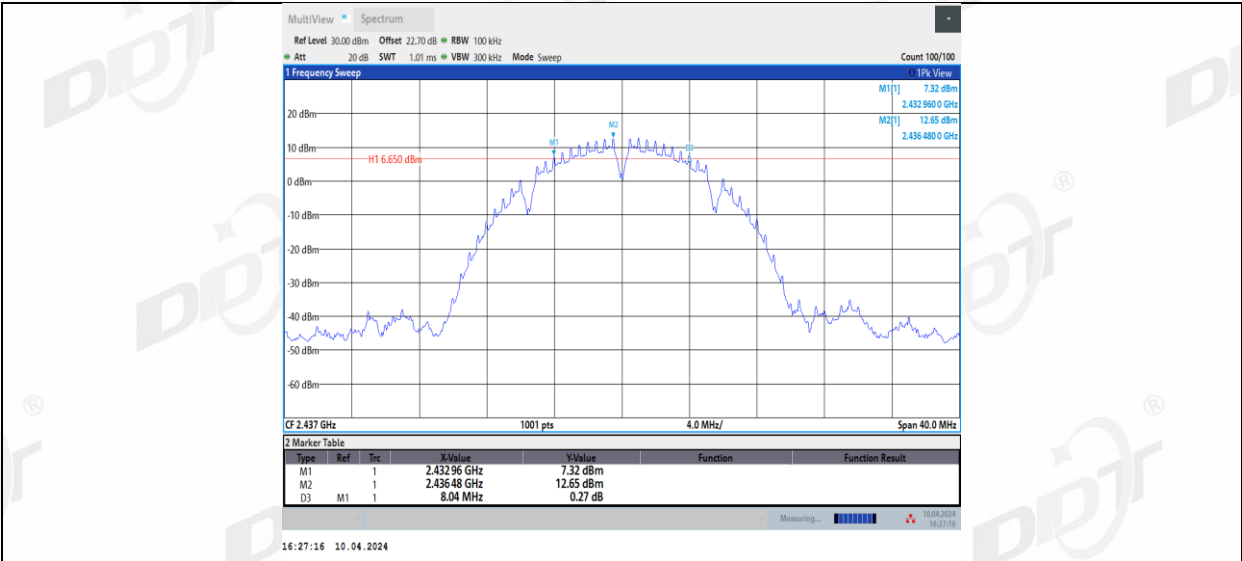
4.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	25.5℃,48.2%RH	Test Date:	2024.04.10~2024.04.25
Test Power Supply:	AC 120V/60Hz	Sample Number:	S24032709-002

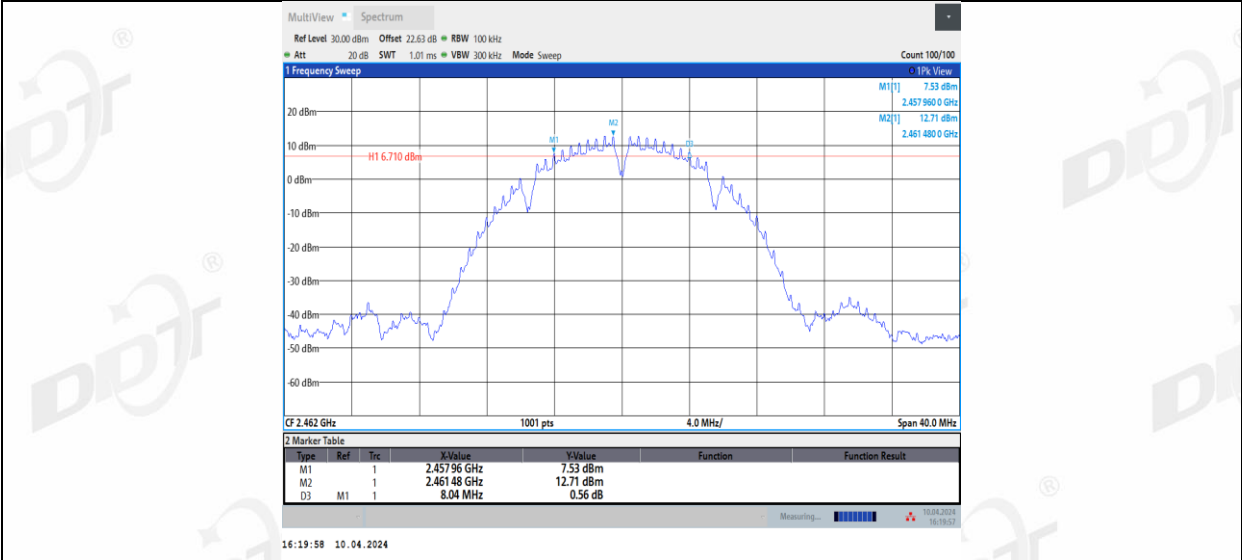
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.08	2407.92	2416.00	0.5	PASS
	Ant2	2412	8.04	2407.96	2416.00	0.5	PASS
	Ant1	2437	7.56	2433.44	2441.00	0.5	PASS
	Ant2	2437	8.04	2432.96	2441.00	0.5	PASS
	Ant1	2462	8.04	2457.96	2466.00	0.5	PASS
	Ant2	2462	8.04	2457.96	2466.00	0.5	PASS
11G-CDD	Ant1	2412	16.04	2403.84	2419.88	0.5	PASS
	Ant2	2412	15.56	2404.20	2419.76	0.5	PASS
	Ant1	2437	15.52	2429.20	2444.72	0.5	PASS
	Ant2	2437	15.92	2429.20	2445.12	0.5	PASS
	Ant1	2462	15.92	2454.20	2470.12	0.5	PASS
	Ant2	2462	15.72	2453.84	2469.56	0.5	PASS
11N20MI MO	Ant1	2412	16.00	2403.56	2419.56	0.5	PASS
	Ant2	2412	16.80	2403.56	2420.36	0.5	PASS
	Ant1	2437	15.44	2429.40	2444.84	0.5	PASS
	Ant2	2437	17.12	2428.60	2445.72	0.5	PASS
	Ant1	2462	16.20	2454.20	2470.40	0.5	PASS
	Ant2	2462	16.56	2453.56	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	35.12	2434.48	2469.60	0.5	PASS
11AX20M IMO	Ant1	2412	18.56	2402.68	2421.24	0.5	PASS
	Ant2	2412	18.52	2402.72	2421.24	0.5	PASS
	Ant1	2437	18.40	2427.84	2446.24	0.5	PASS
	Ant2	2437	18.28	2427.96	2446.24	0.5	PASS
	Ant1	2462	18.60	2452.68	2471.28	0.5	PASS
	Ant2	2462	18.32	2452.68	2471.00	0.5	PASS
11AX40M IMO	Ant1	2422	37.28	2403.52	2440.80	0.5	PASS
	Ant2	2422	35.84	2404.48	2440.32	0.5	PASS
	Ant1	2437	35.60	2419.48	2455.08	0.5	PASS
	Ant2	2437	36.08	2419.48	2455.56	0.5	PASS
	Ant1	2452	37.04	2433.52	2470.56	0.5	PASS
	Ant2	2452	35.12	2434.48	2469.60	0.5	PASS
11BE20M IMO	Ant1	2412	16.84	2402.72	2419.56	0.5	PASS
	Ant2	2412	17.52	2403.20	2420.72	0.5	PASS
	Ant1	2437	15.84	2429.40	2445.24	0.5	PASS
	Ant2	2437	17.48	2428.28	2445.76	0.5	PASS
	Ant1	2462	17.60	2453.20	2470.80	0.5	PASS
	Ant2	2462	16.28	2453.28	2469.56	0.5	PASS
11BE40M IMO	Ant1	2422	35.84	2404.48	2440.32	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	35.12	2434.48	2469.60	0.5	PASS

4.5. Test graphs

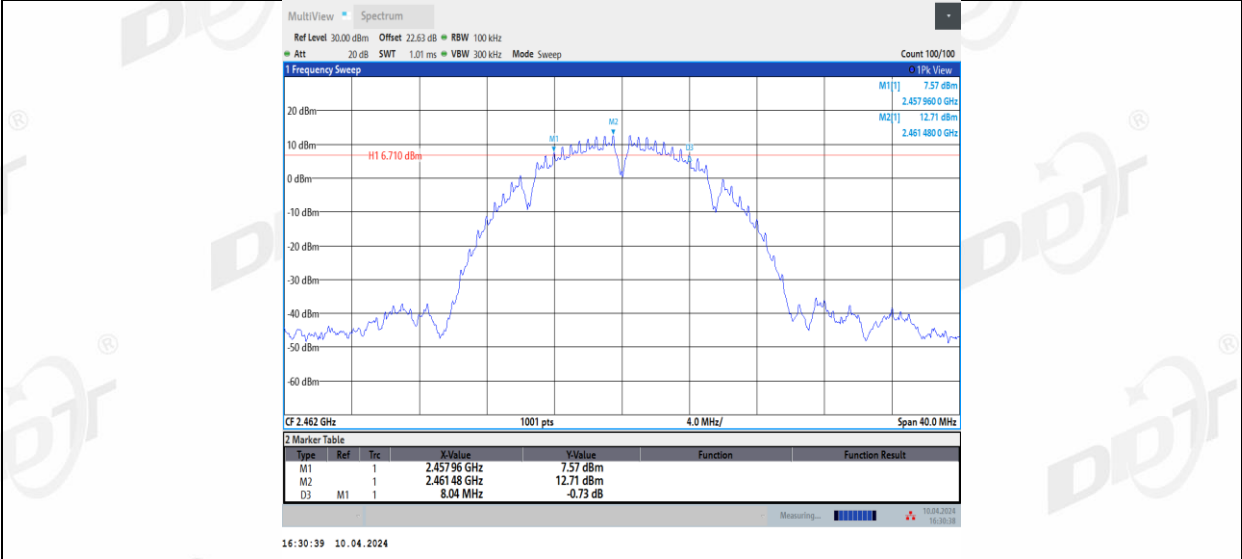




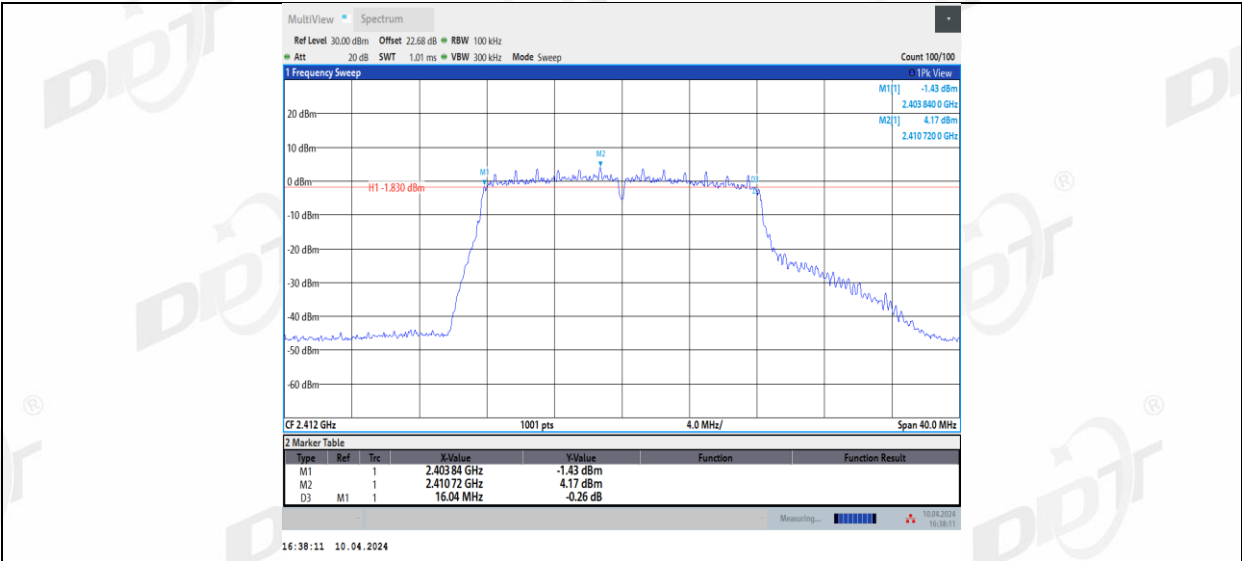
11B_Ant1_2462



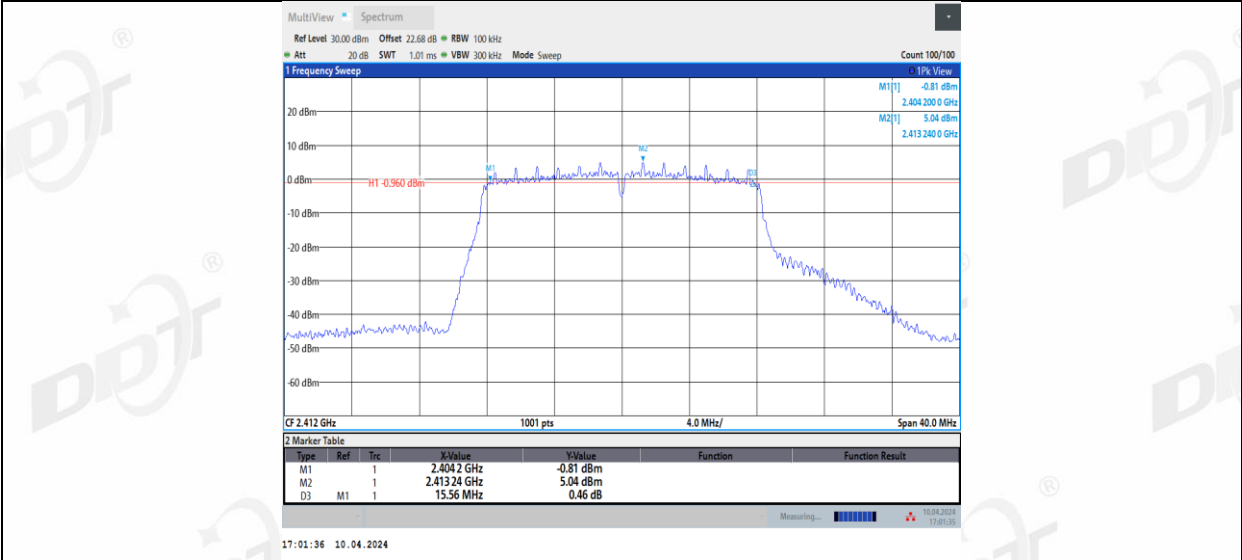
11B_Ant2_2462



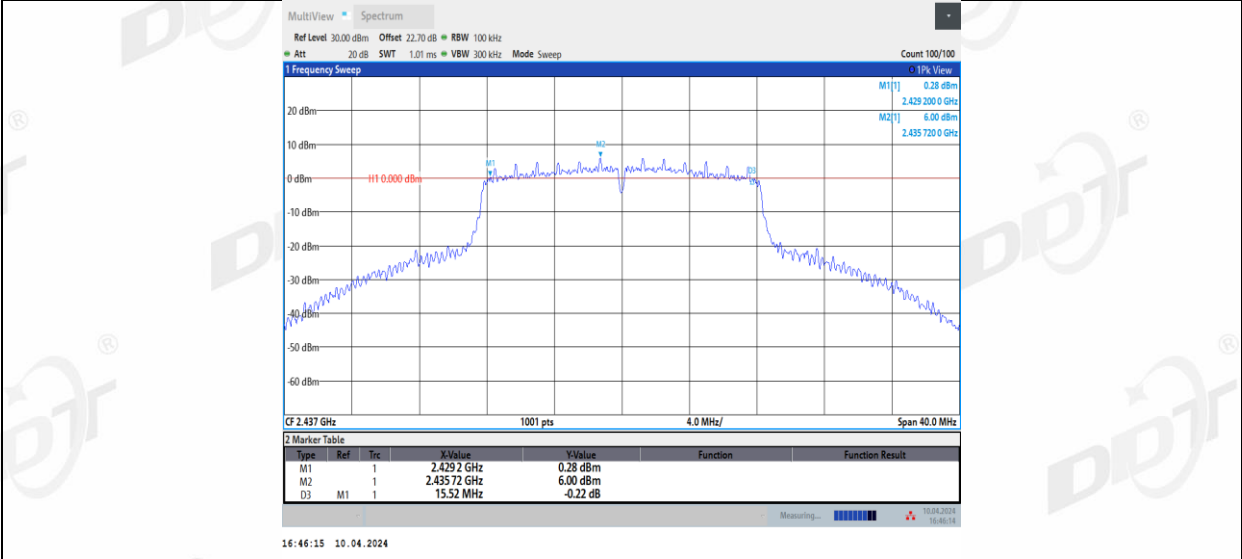
11G-CDD_Ant1_2412



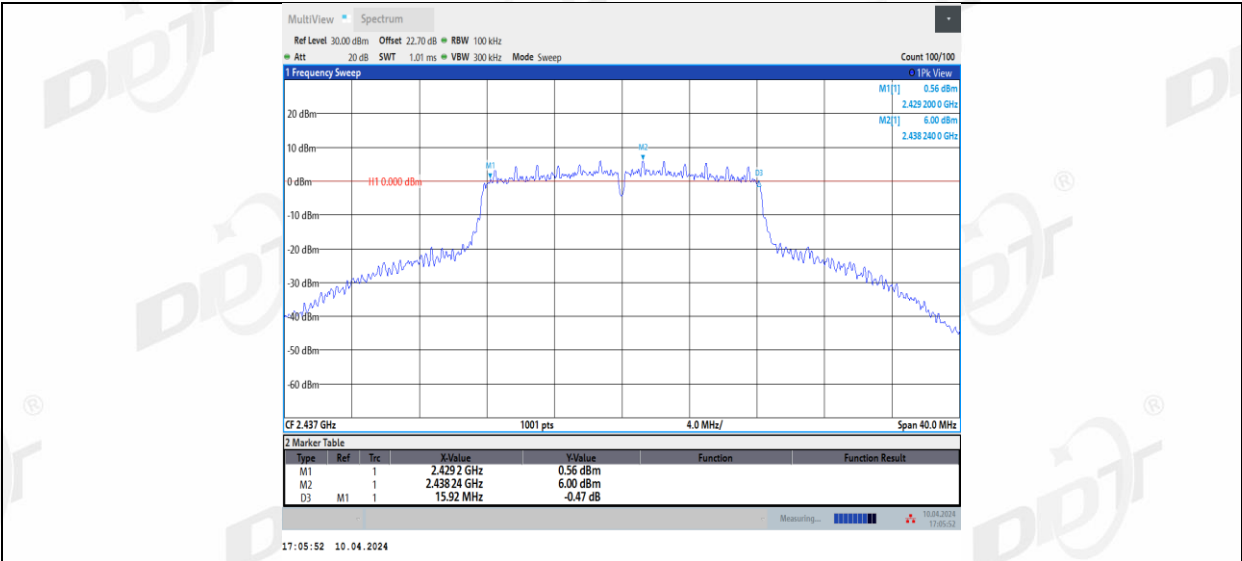
11G-CDD_Ant2_2412



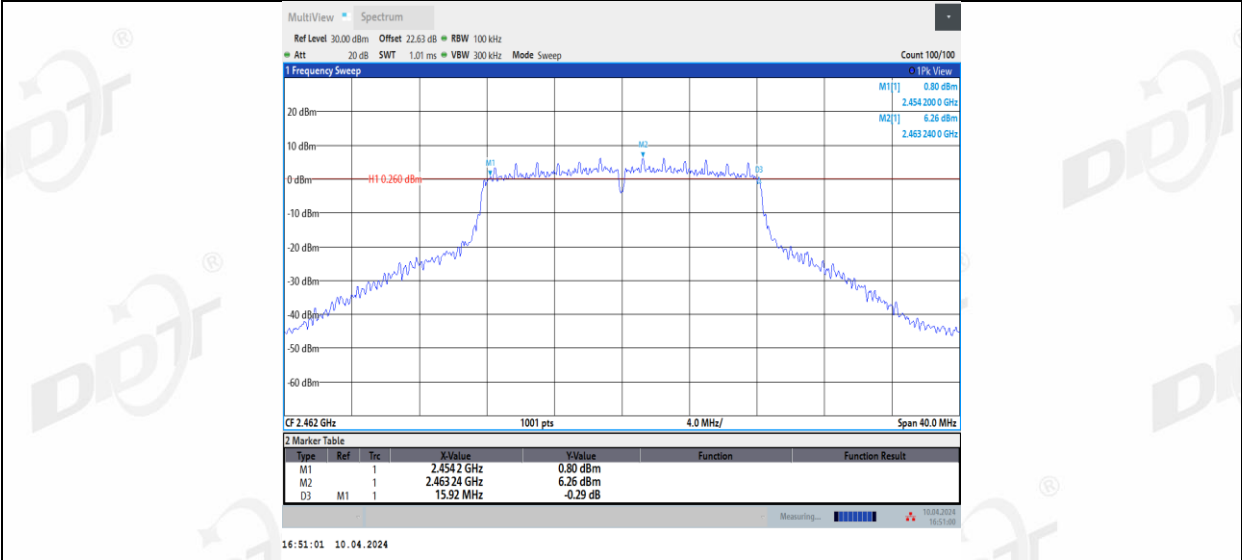
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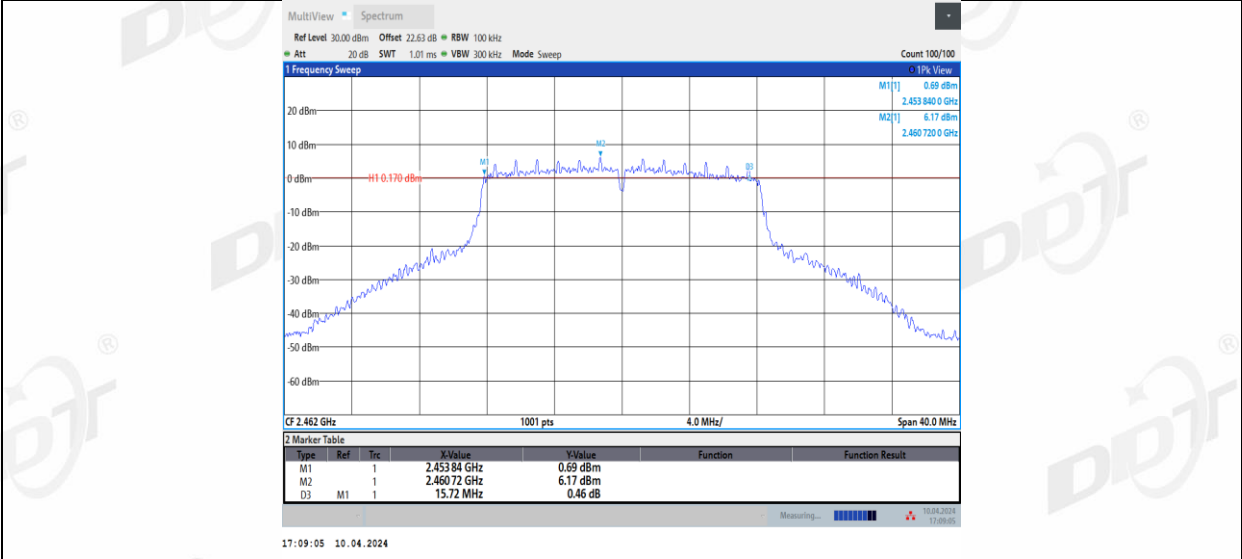
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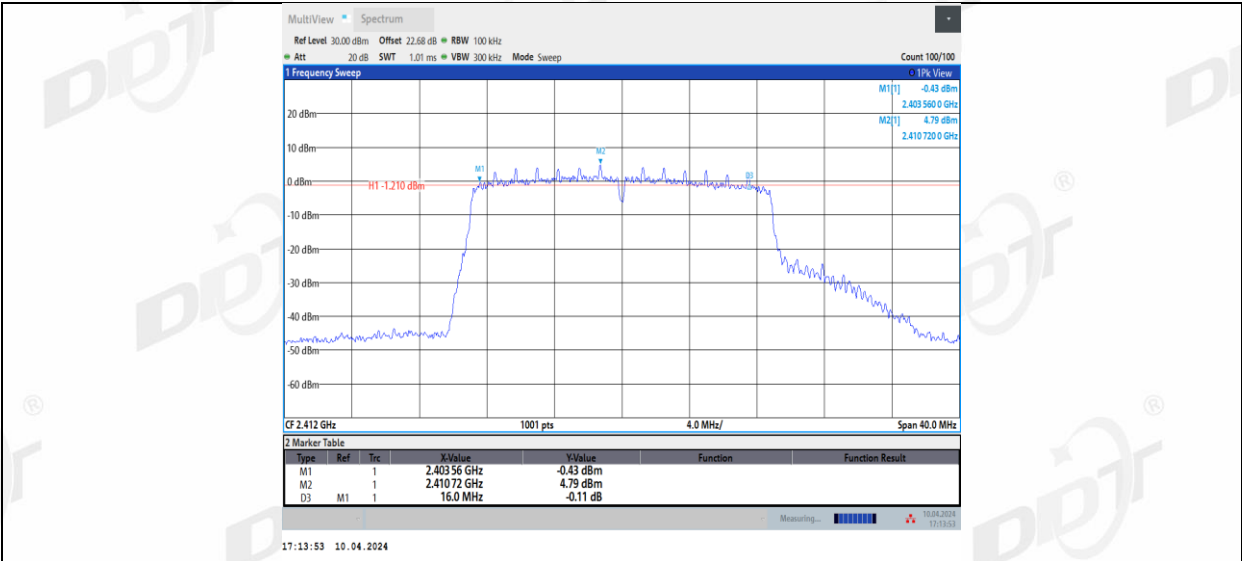
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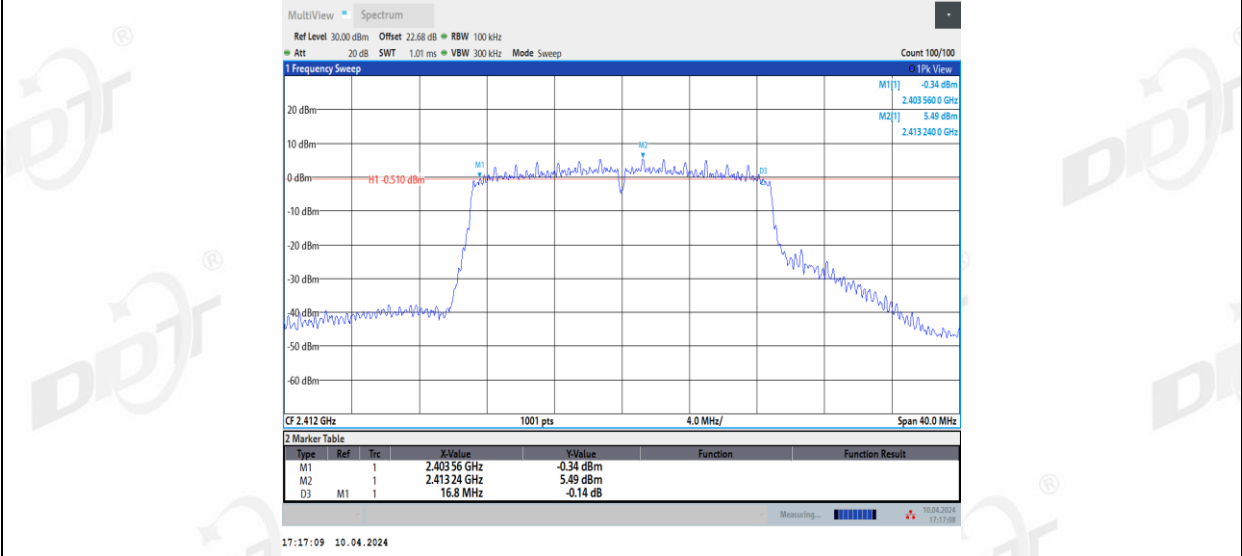
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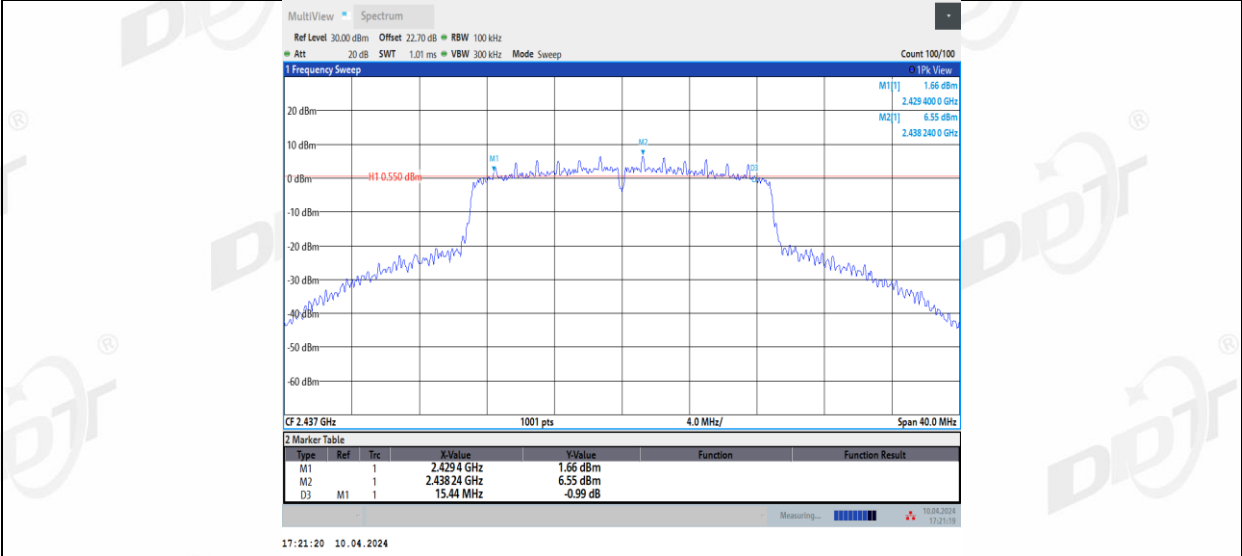
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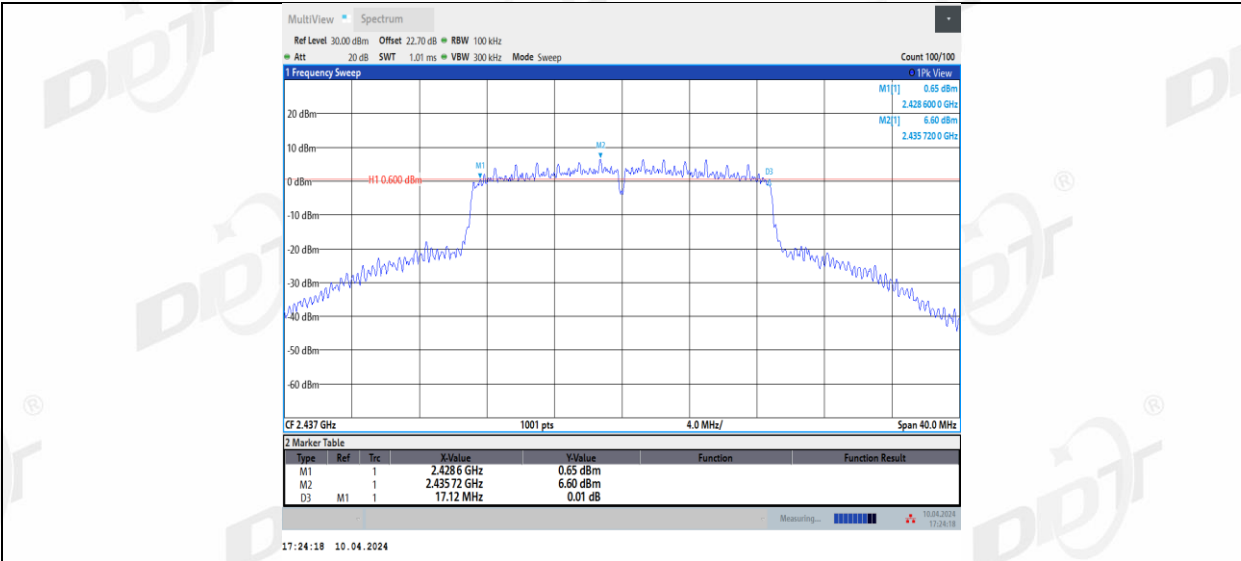
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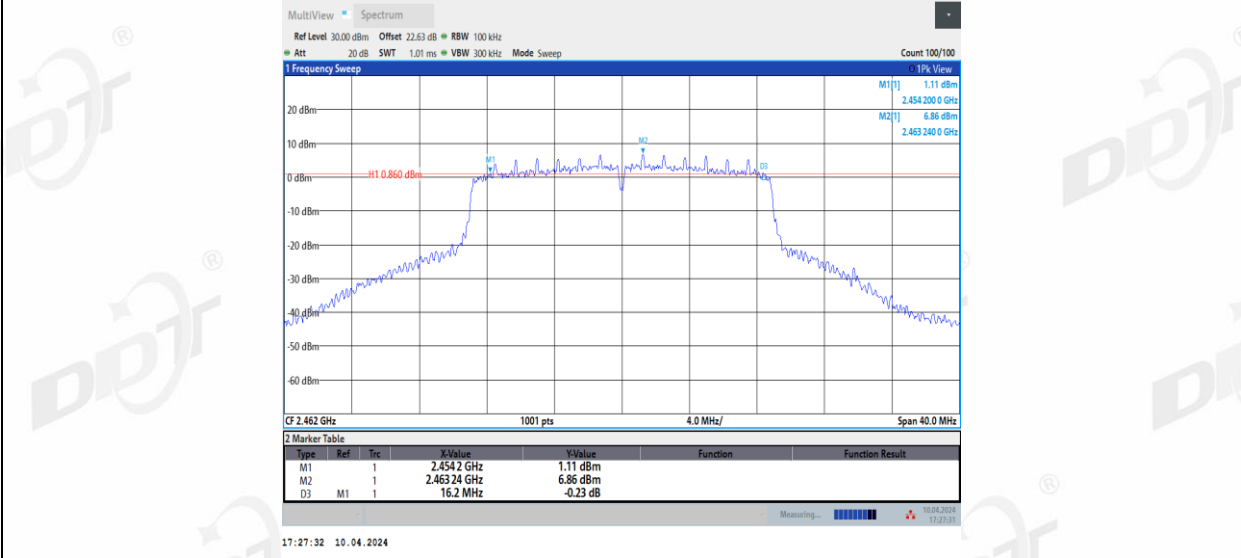
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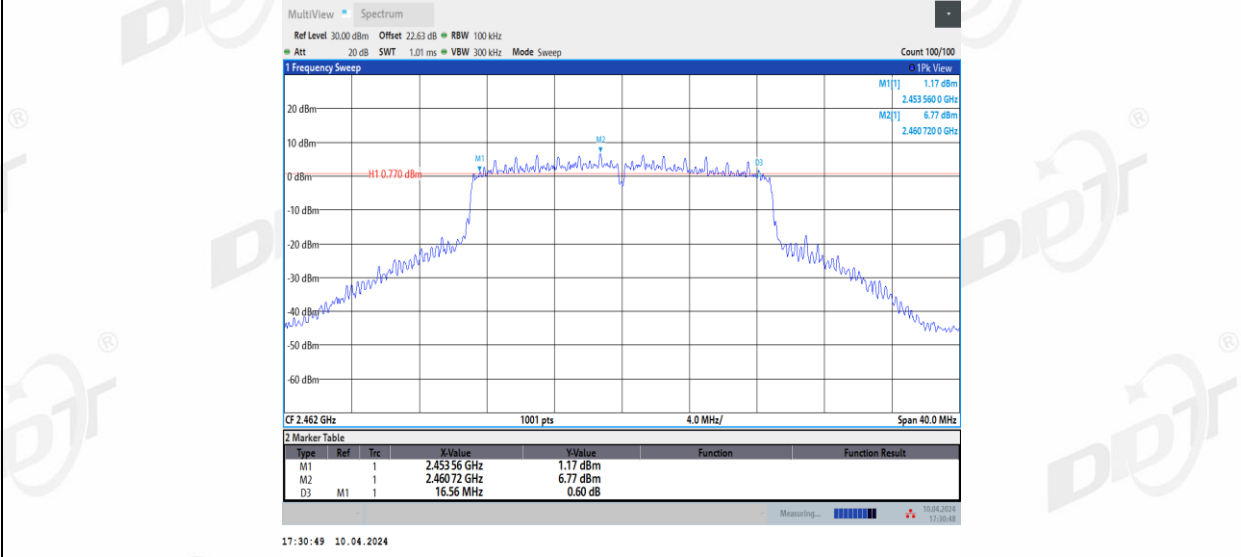
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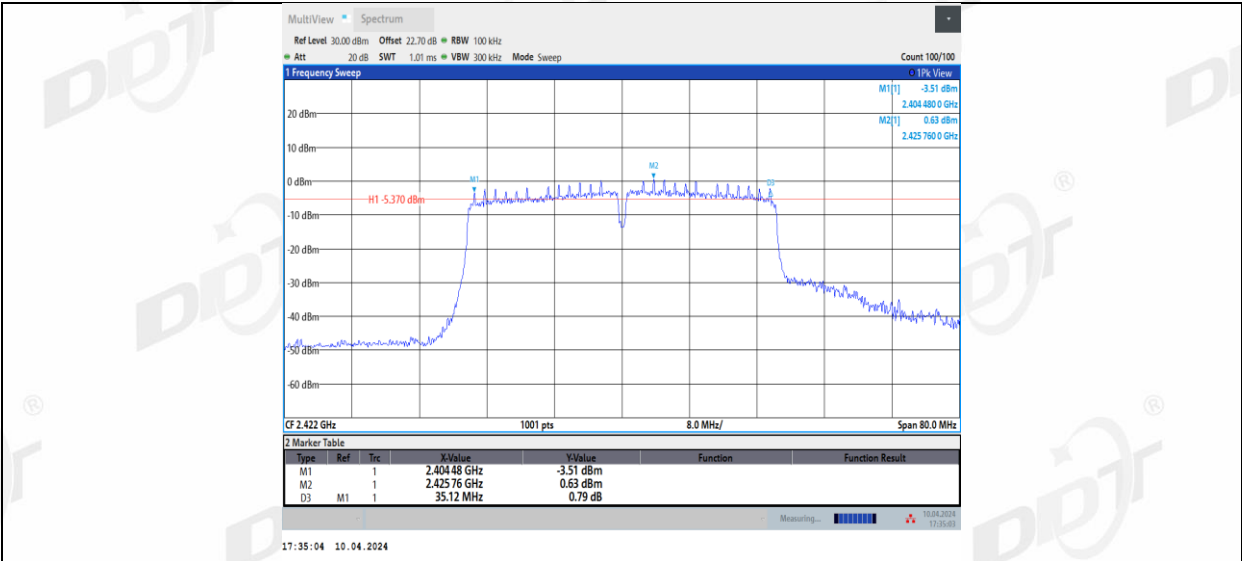
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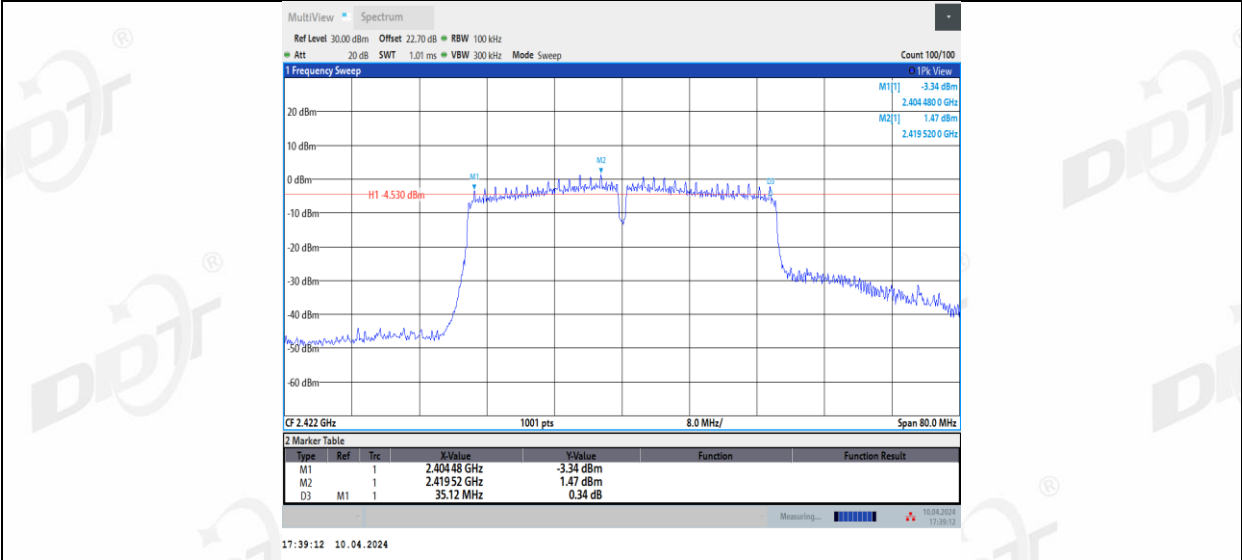
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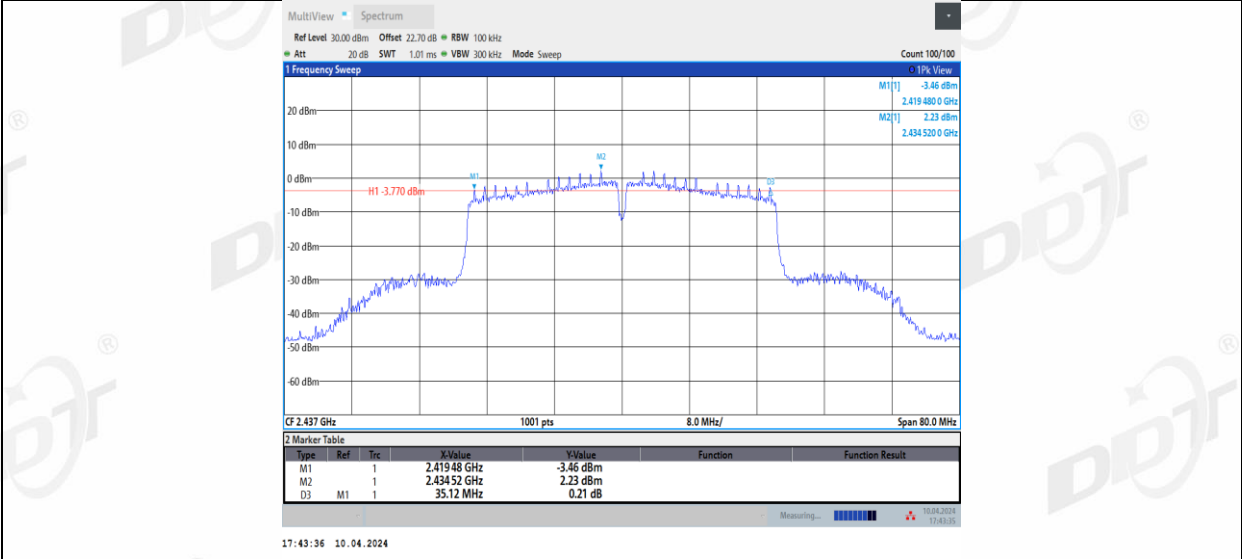
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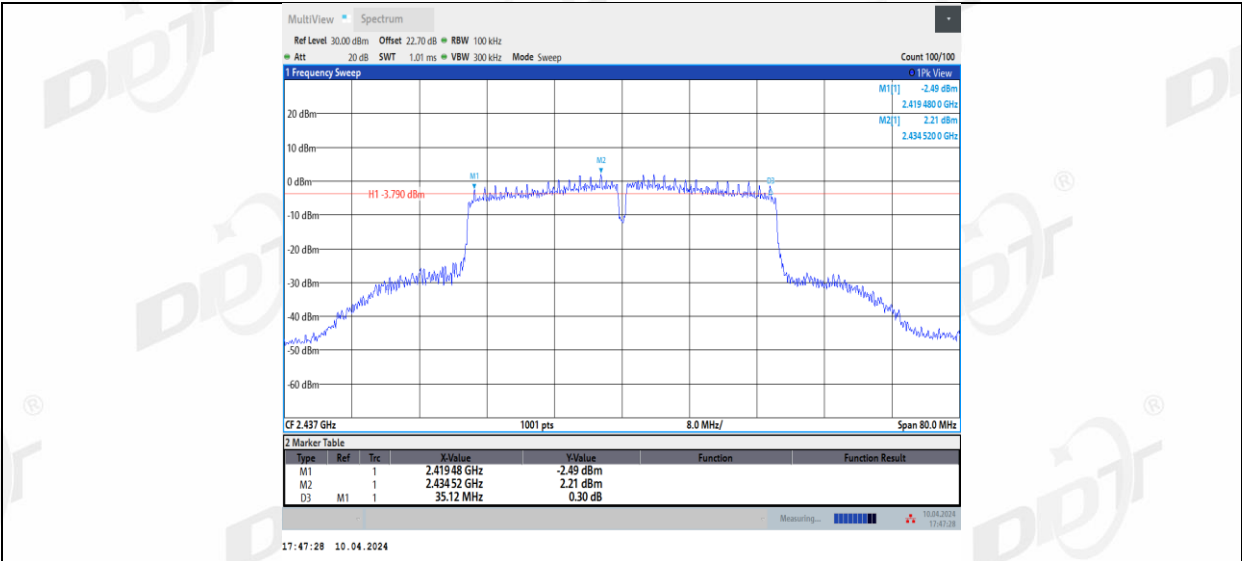
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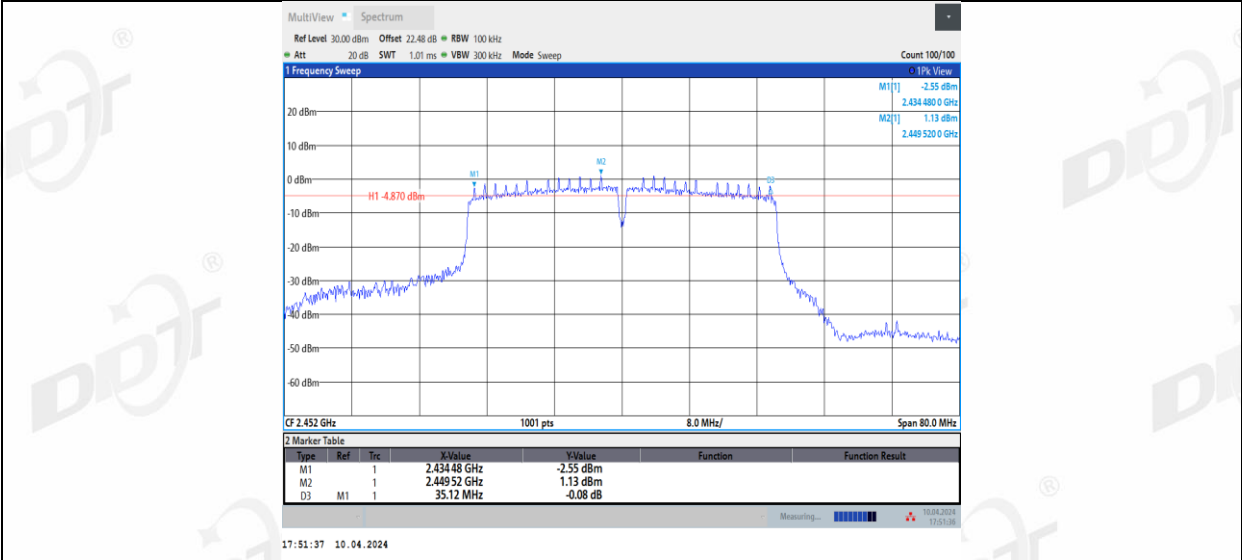
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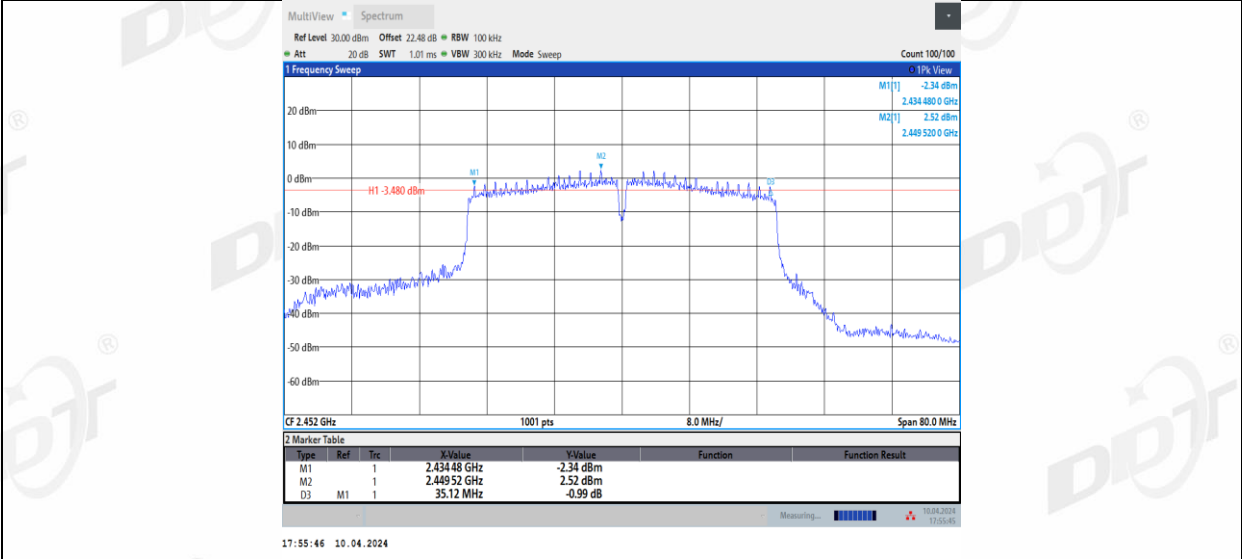
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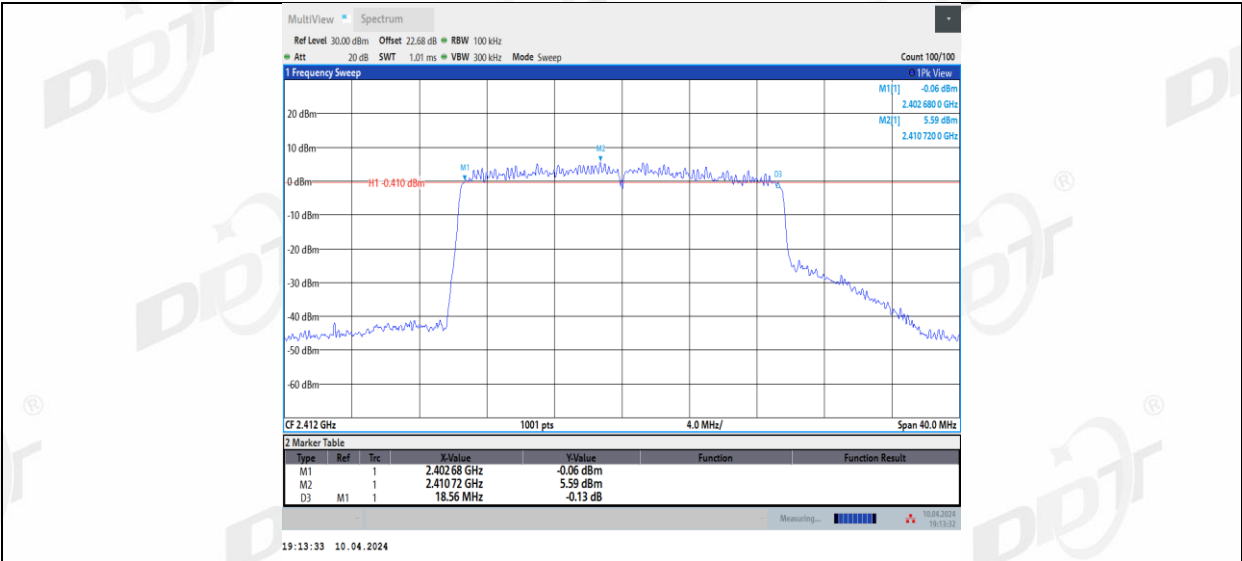
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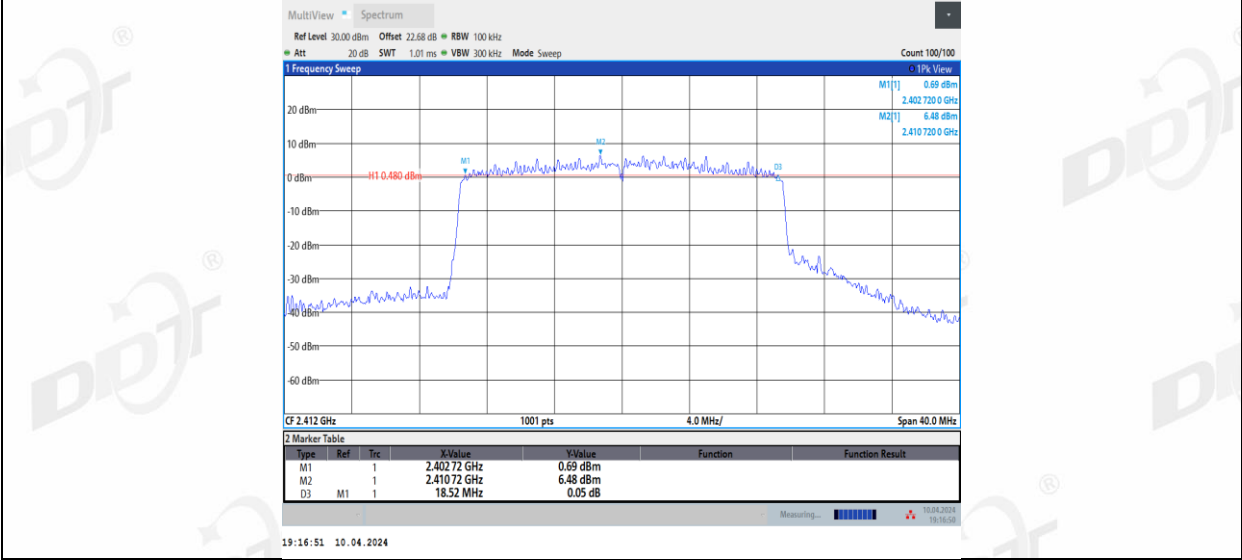
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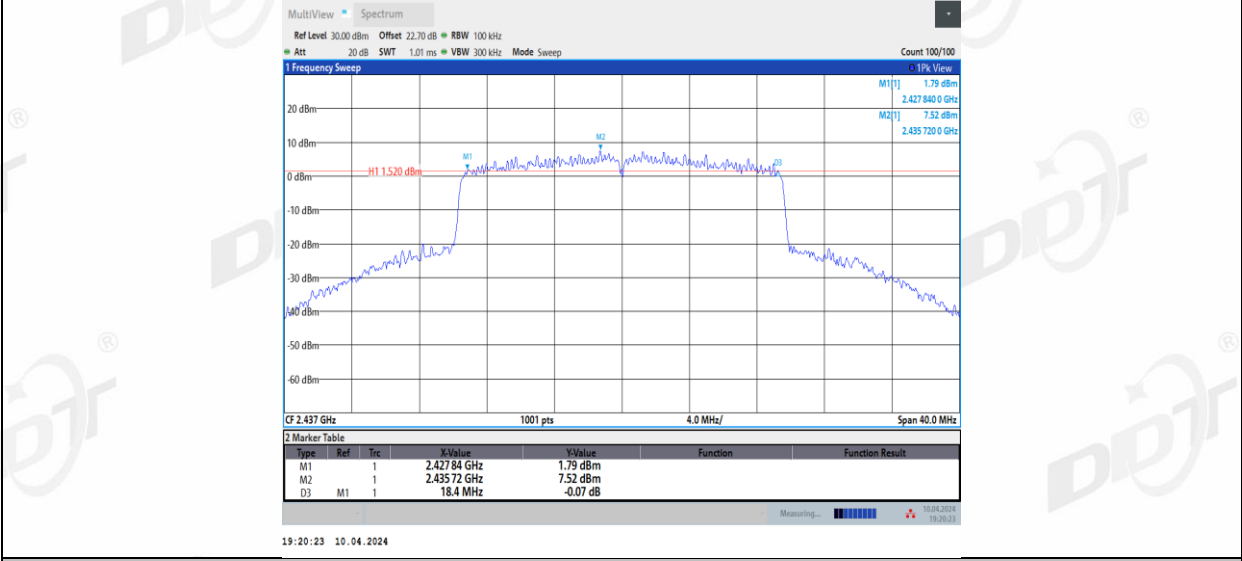
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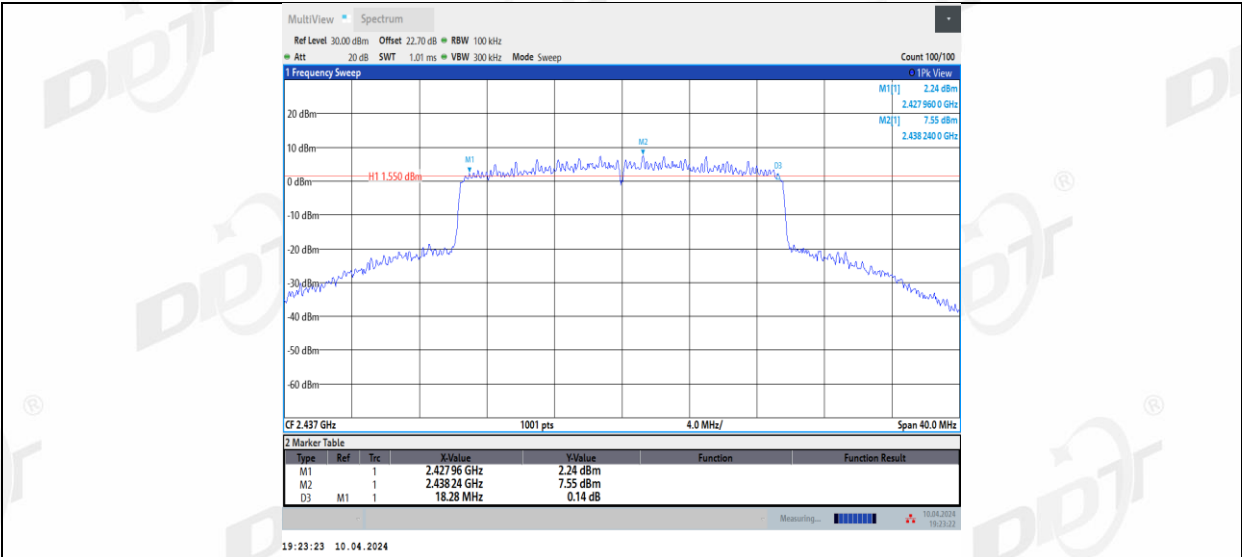
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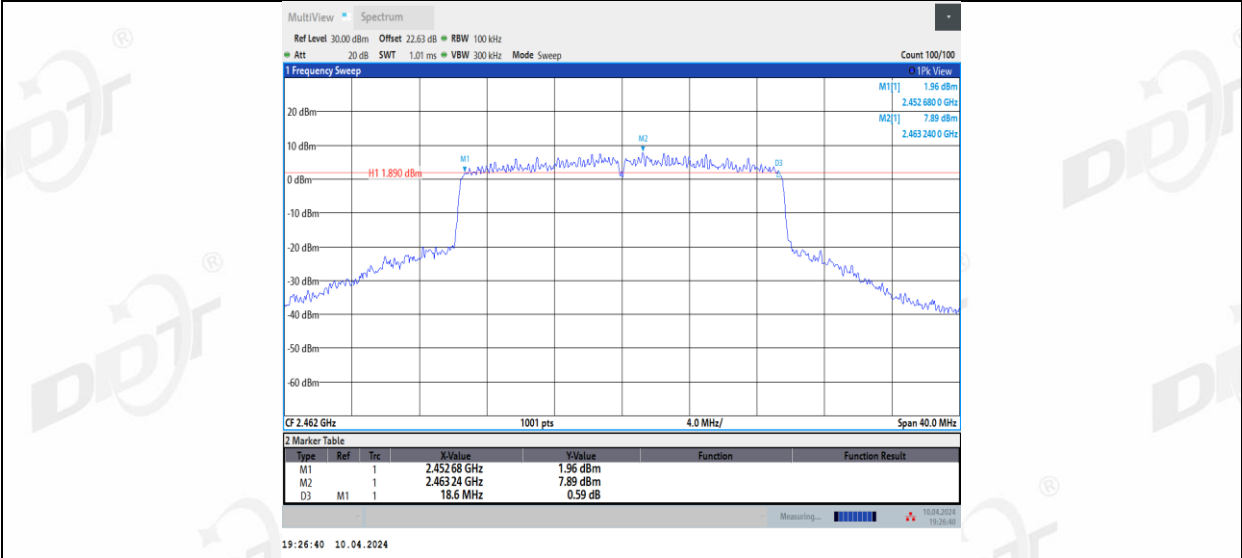
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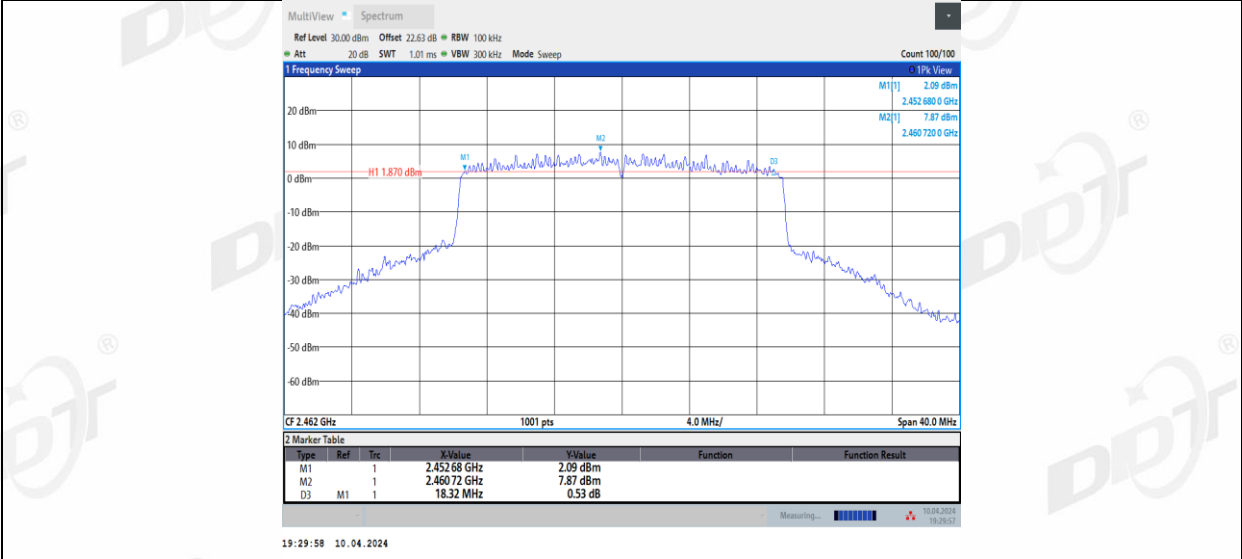
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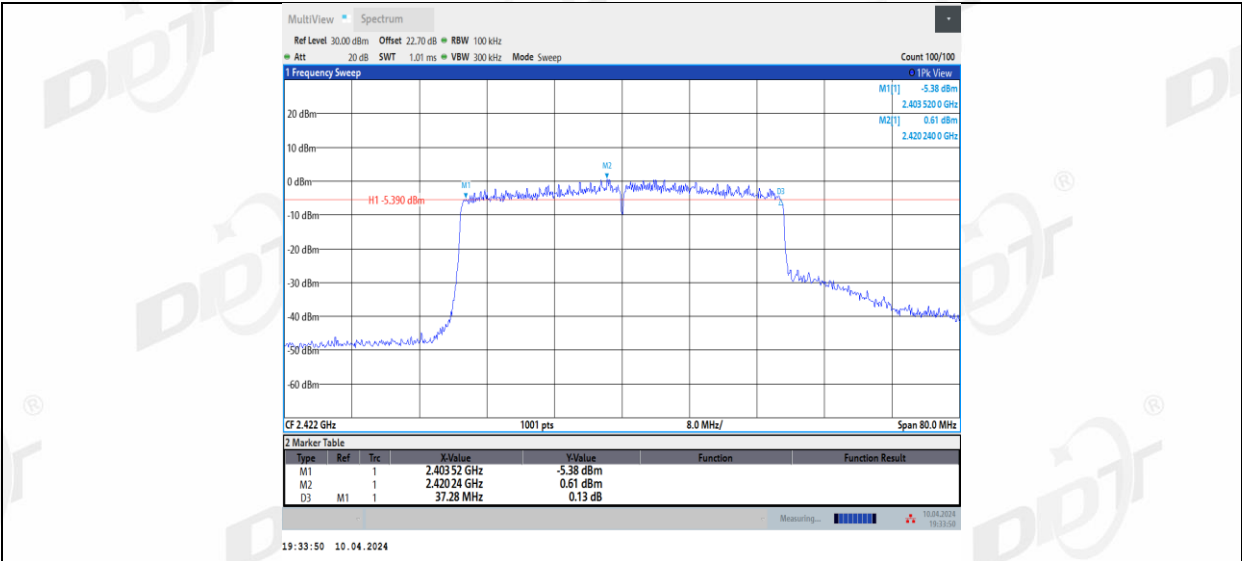
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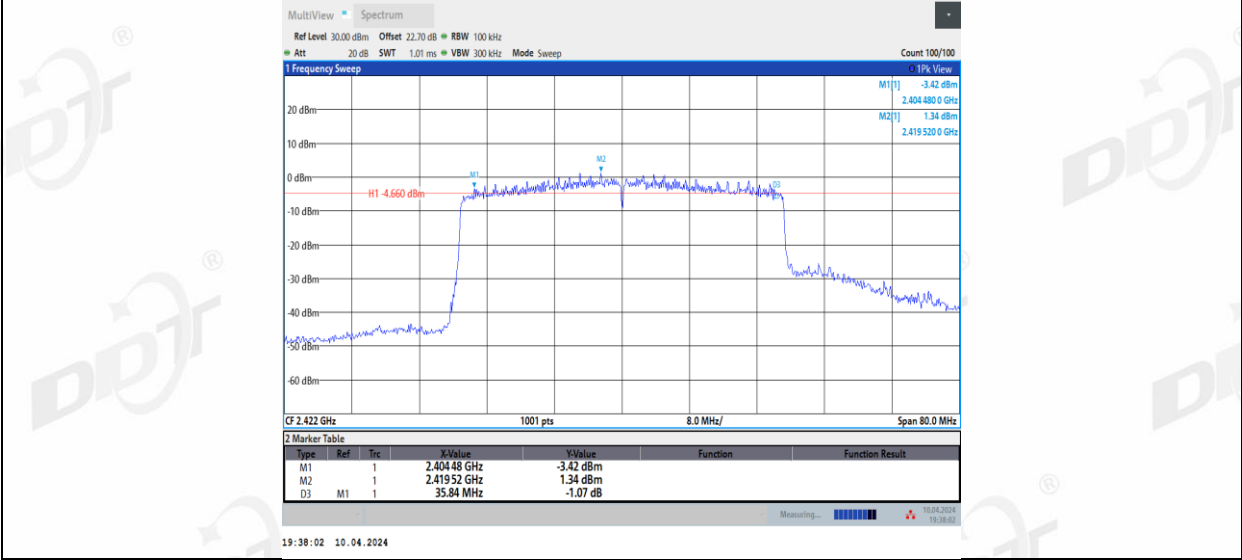
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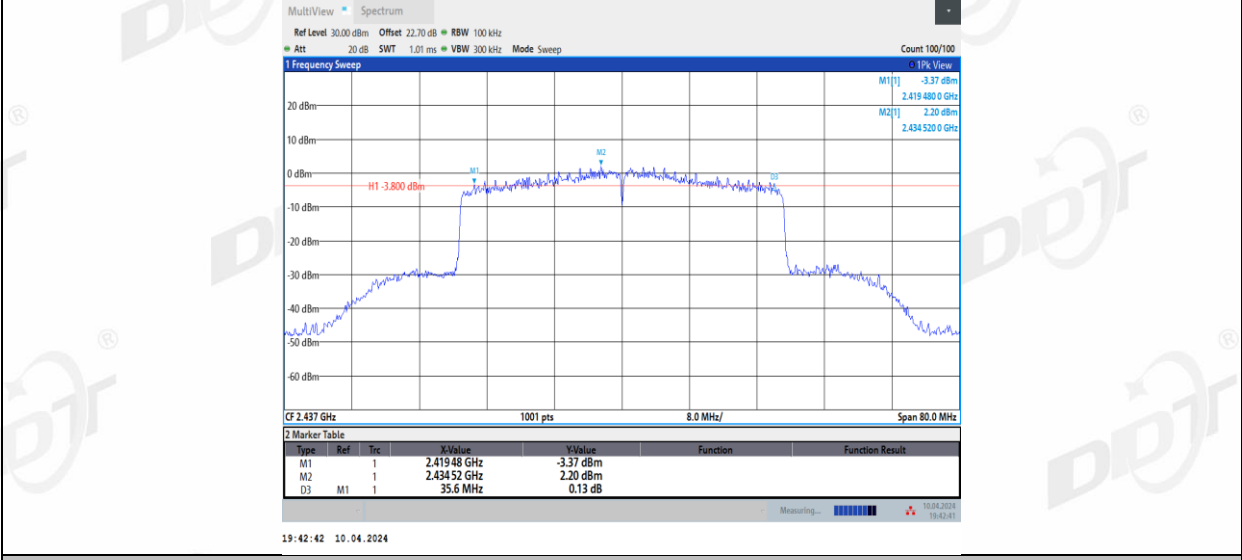
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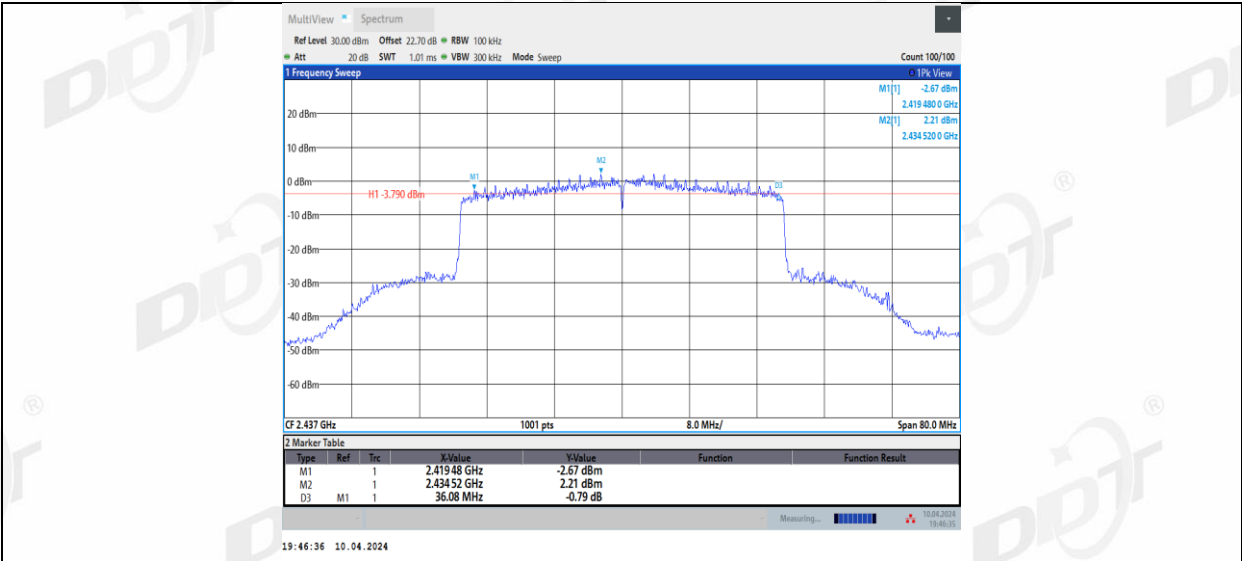
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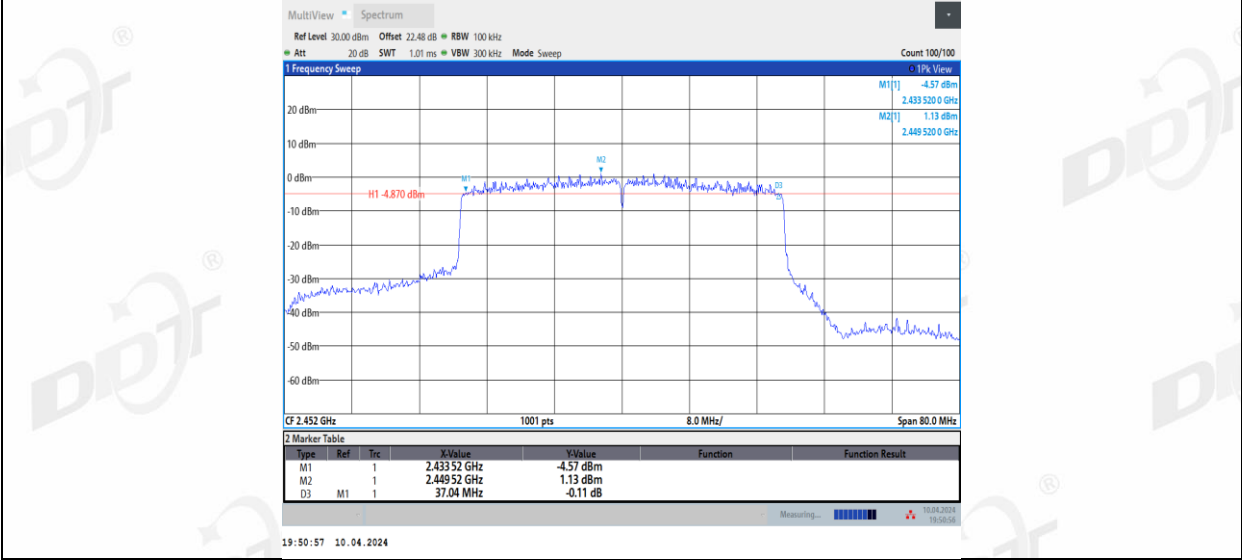
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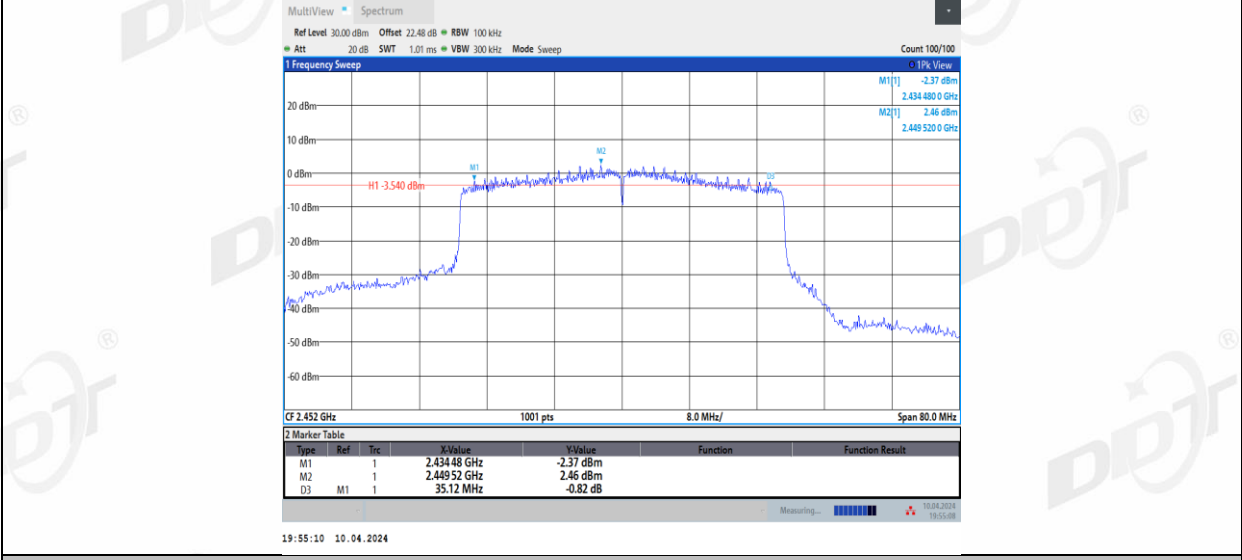
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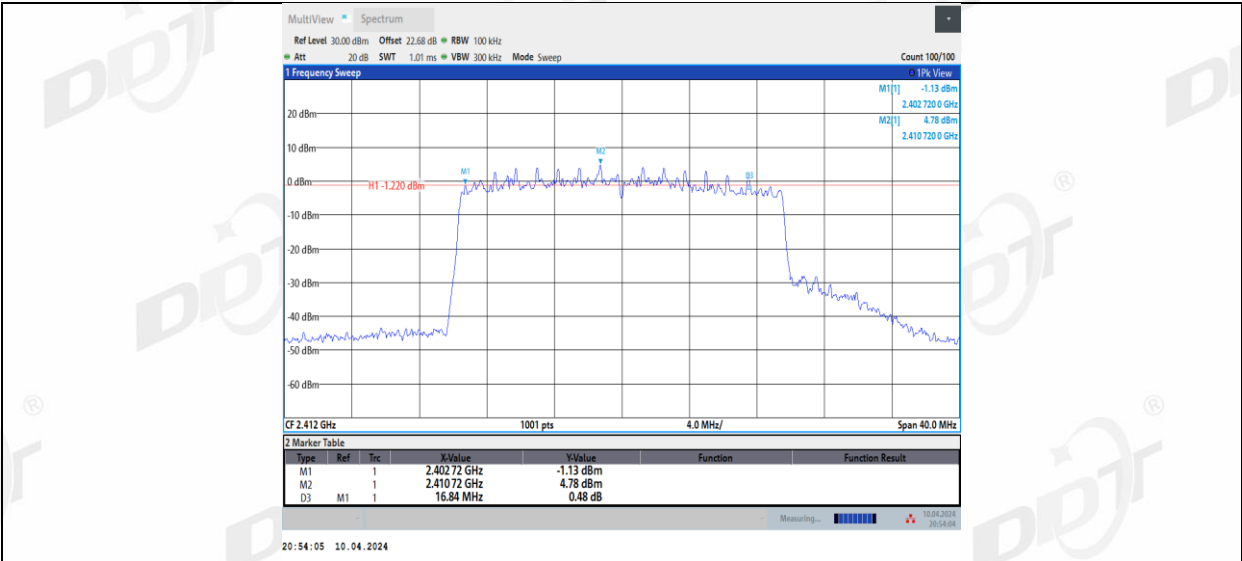
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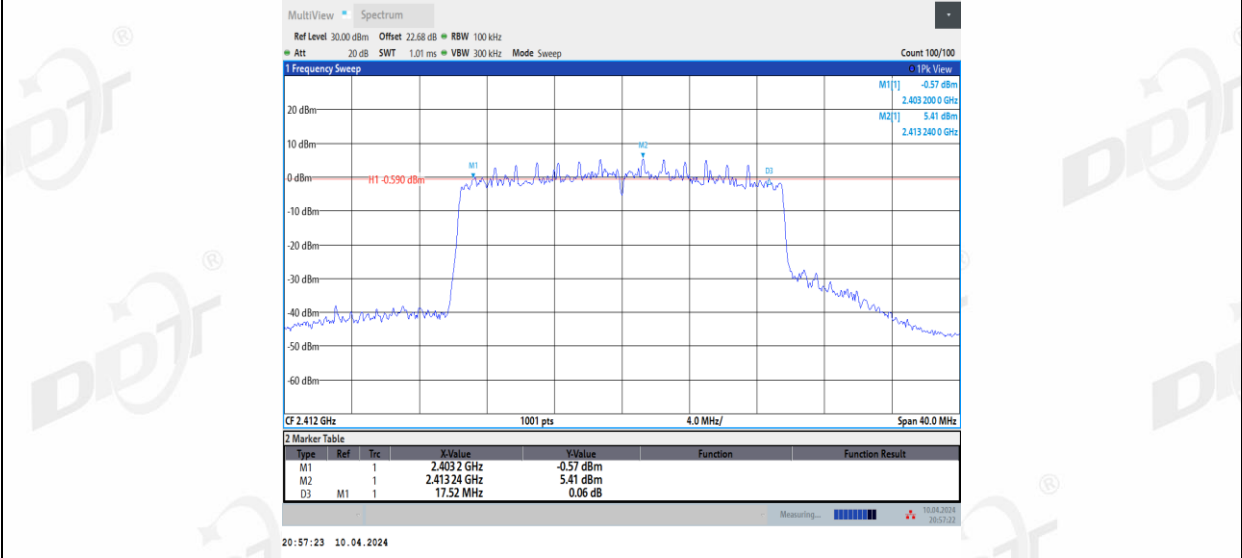
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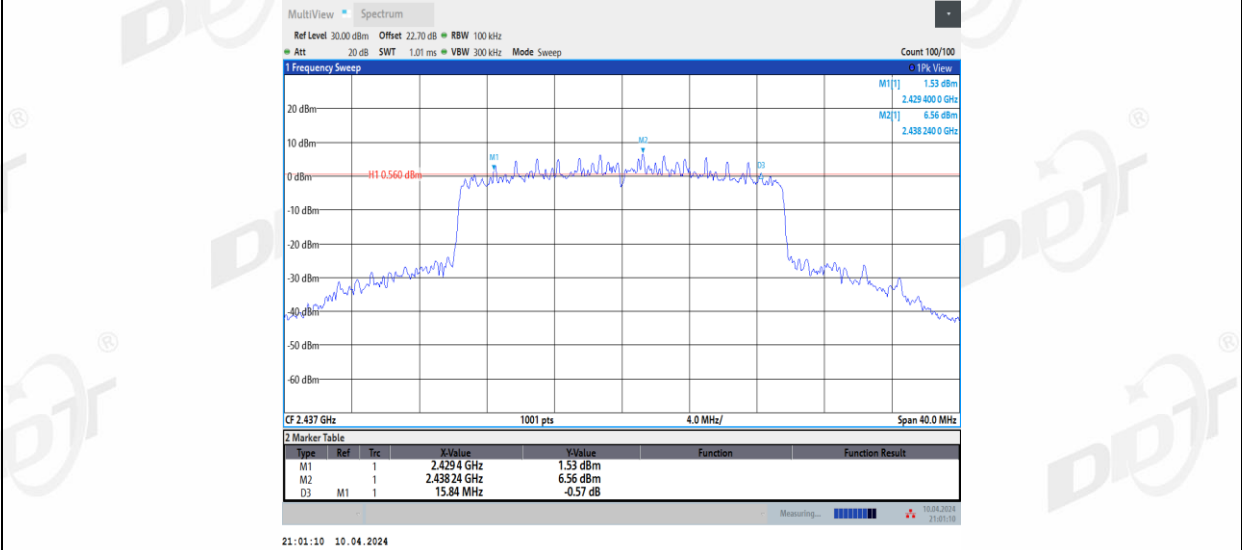
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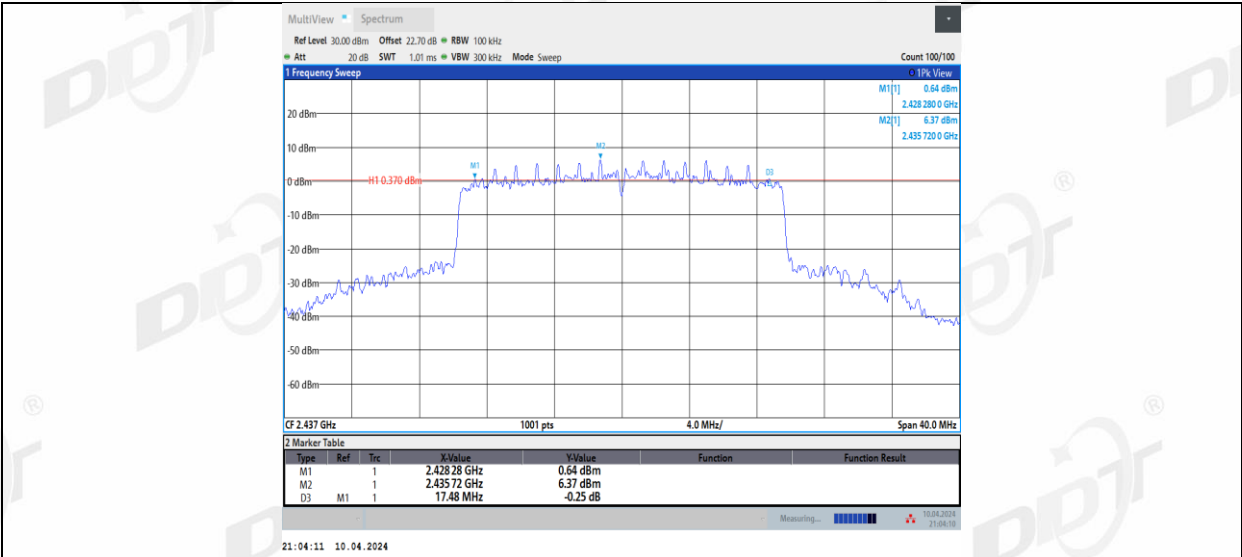
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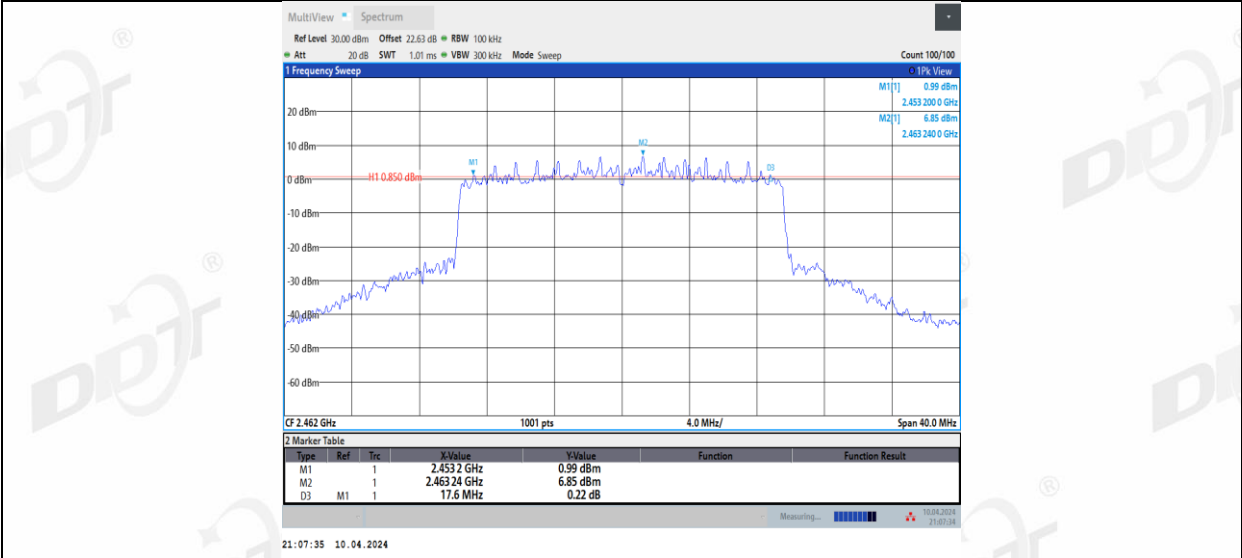
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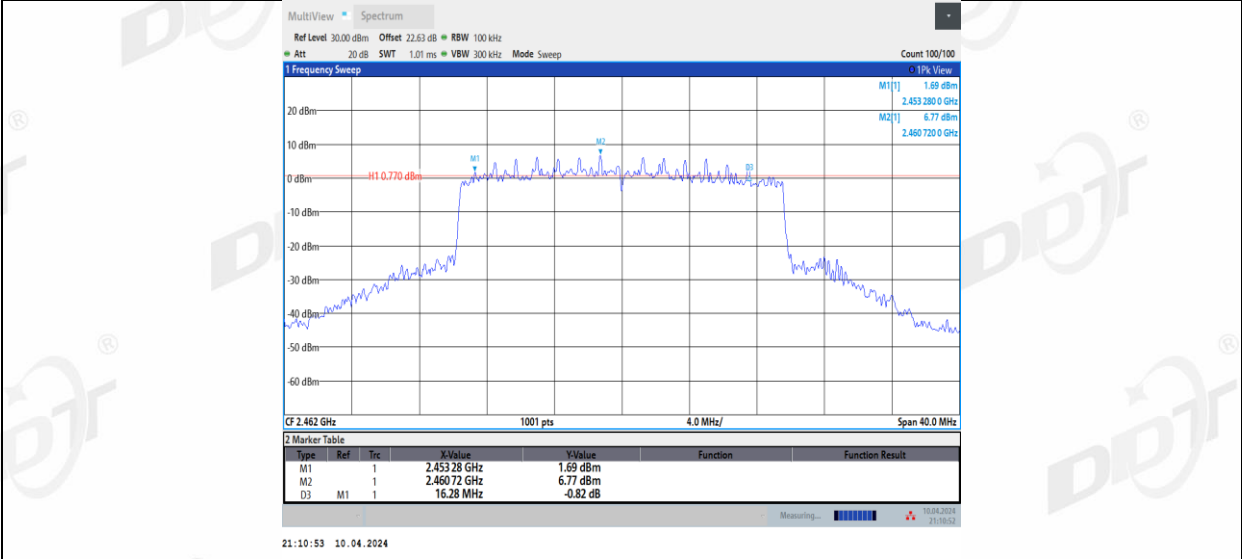
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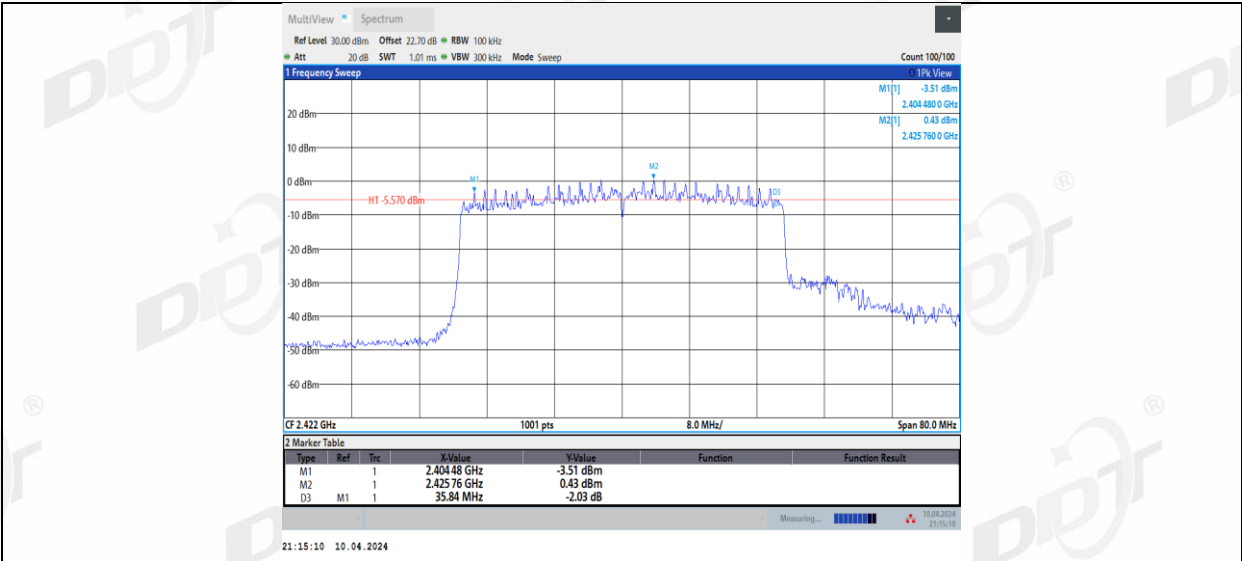
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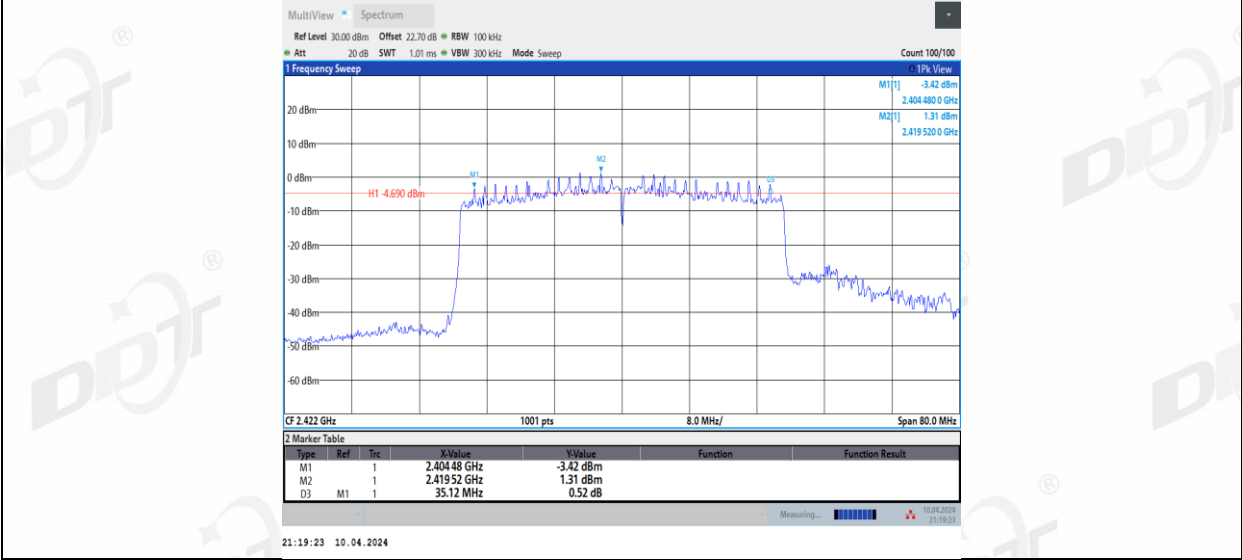
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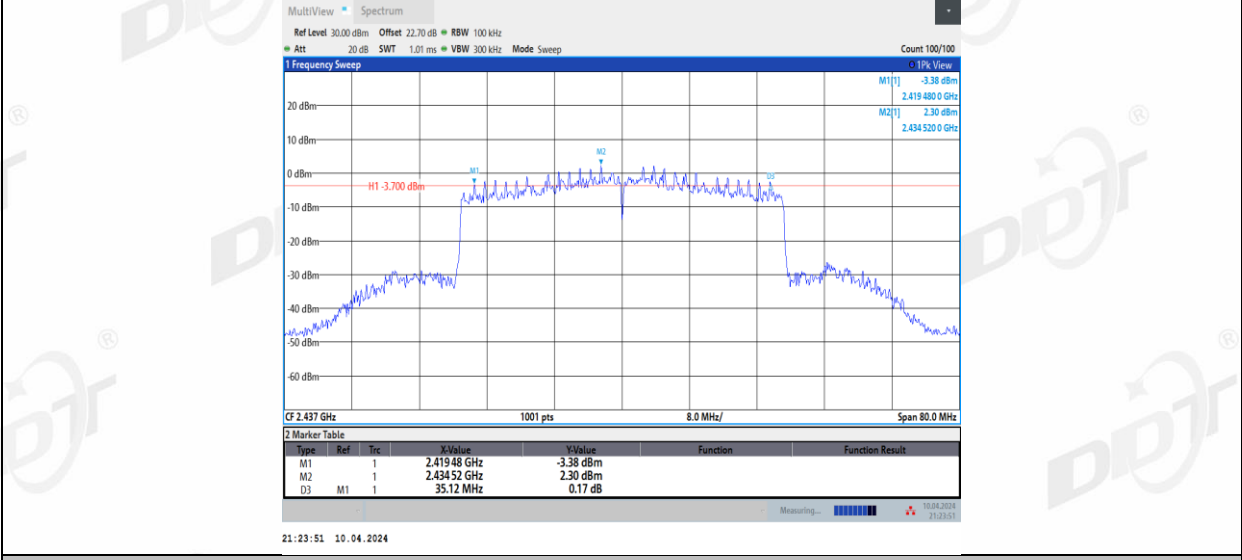
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11BE40MIMO_Ant1_2437



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