



FCC CERTIFICATION TEST REPORT

Applicant	:	SNWC, INC.
Address of Applicant	:	25 Central Park West, 2i New York, NY,10023 United States
Manufacturer	:	Guangzhou Wanbao Group Refrigerator Co., Ltd.
Address of Manufacturer	:	No. 1228 & 1282, Cheng Ao Avenue East, Conghua, Guangzhou, Guangdong Province, 510935 P.R. China
Equipment under Test	:	Wine Cooler
Model No.	:	ROCCO2023
FCC ID	:	2BC6B-ROCCO2023
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10:2013
Report No.	:	DDT-RE25030626-1E03
Issue Date	:	2025/04/22
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

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Test Report Declare

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Equipment under Test	:	Wine Cooler
Model No.	:	ROCCO2023
Manufacturer	:	Guangzhou Wanbao Group Refrigerator Co., Ltd.
Address of Manufacturer	:	No. 1228 & 1282, Cheng Ao Avenue East, Conghua, Guangzhou, Guangdong Province, 510935 P.R. China

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C,
ANSI C63.10:2013,

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-RE25030626-1E03		
Date of Receipt:	2025/03/13	Date of Test:	2025/03/13 - 2025/04/22

Created: Tiger Mo	Reviewed: Ella Gong	Approved: Damon Hu
		
2025/04/22	2025/04/22	2025/04/22

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	2025/04/22	

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)	/	Pass
2	Peak Output Power	FCC Part 15: 15.247(b)(3)	/	Pass
3	Power Spectral Density	FCC Part 15:15.247(e)	/	Pass
4	RF Conducted Spurious Emissions	FCC Part 15: 15.247(d)	/	Pass
5	Radiated Emission	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d)	/	Pass
6	Band Edge Compliance	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d)	/	Pass
7	Power Line Conducted Emissions	FCC Part 15: 15.207(a)	/	Pass
8	Antenna Requirement	FCC Part 15: 15.203	/	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	: Wine Cooler
Model Number	: ROCCO2023
Difference of model number	: /
EUT Function Description	: Please reference user manual of this device
Power Supply	: AC120V/60Hz
Hardware Version	: PCBA-RK3566-V1.0-NC
Software Version	: 20250513
Antenna Type	: FPC
Max Antenna Gain(dBi)	: -4.74

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	/	/

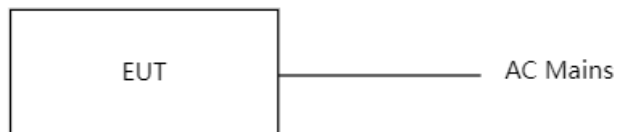
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's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

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: aicrf_test.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			
IEEE 802.11b	15	1	LCH: CH1	2412
	15	1	MCH: CH6	2437
	15	1	HCH: CH11	2462
IEEE 802.11g	15	6	LCH: CH1	2412
	15	6	MCH: CH6	2437
	15	6	HCH: CH11	2462
IEEE 802.11n HT20	12	MCS 0	LCH: CH1	2412
	12	MCS 0	MCH: CH6	2437
	12	MCS 0	HCH: CH11	2462
IEEE 802.11n HT40	12	MCS 0	LCH: CH3	2422
	12	MCS 0	MCH: CH6	2437
	12	MCS 0	HCH: CH9	2452
IEEE 802.11ax HE20	12	MCS 0	LCH: CH1	2412
	12	MCS 0	MCH: CH6	2437
	12	MCS 0	HCH: CH11	2462
IEEE 802.11ax HE40	12	MCS 0	LCH: CH3	2422
	12	MCS 0	MCH: CH6	2437
	12	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 to106 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

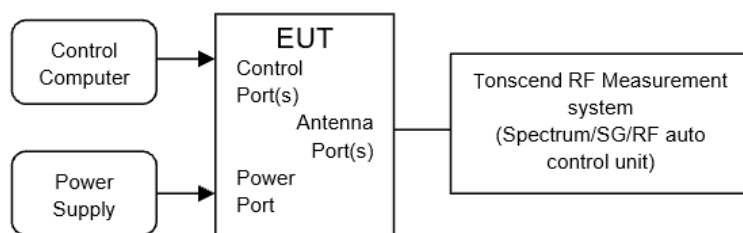
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 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	2026/03/28
Wideband Radio Communication Tester	R&S	CMW500	168801	2026/03/28
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2026/03/28
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2025/08/25
RF Control Unit	Tonsend	JS0806-2	2118060485	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
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

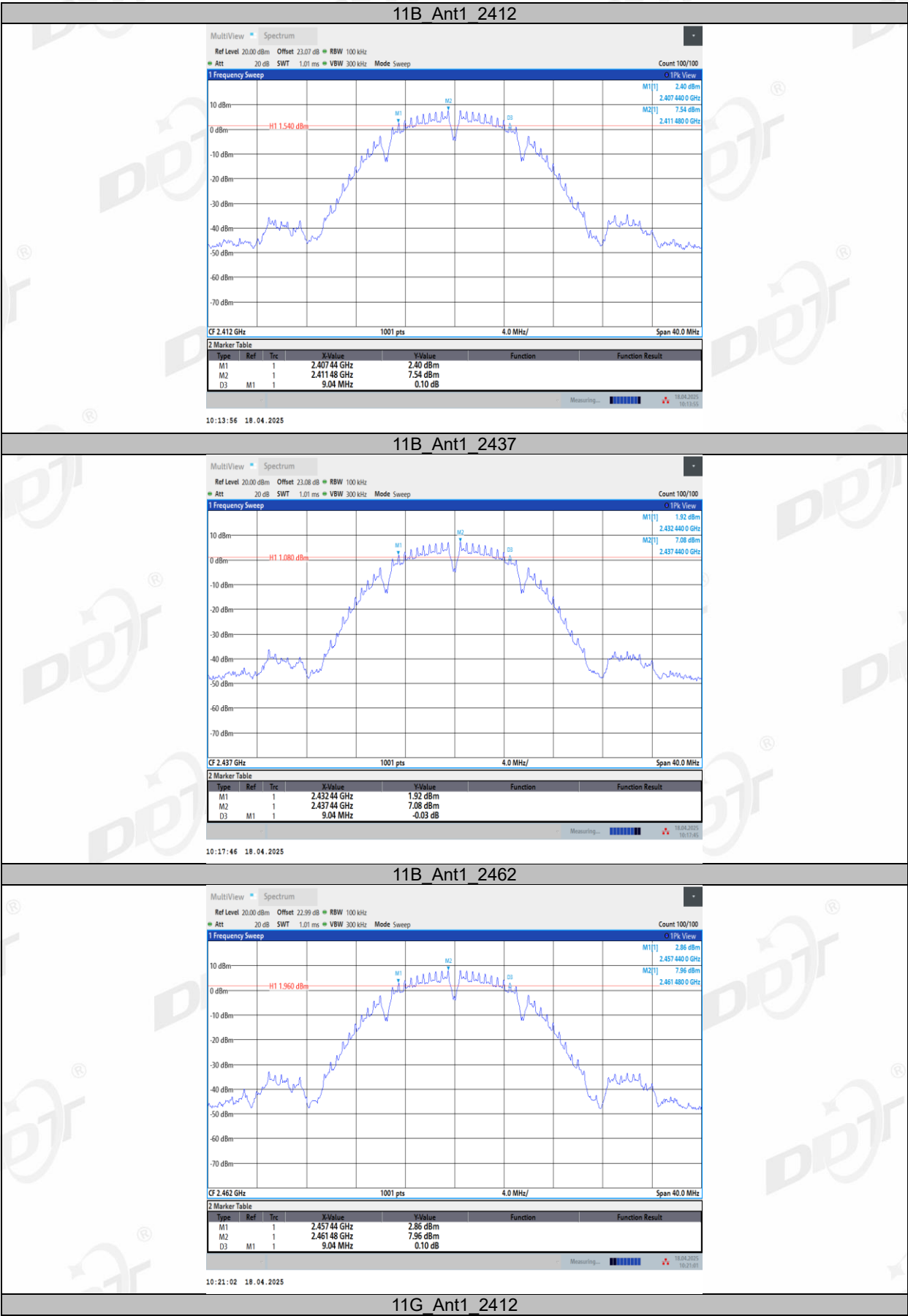
Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report

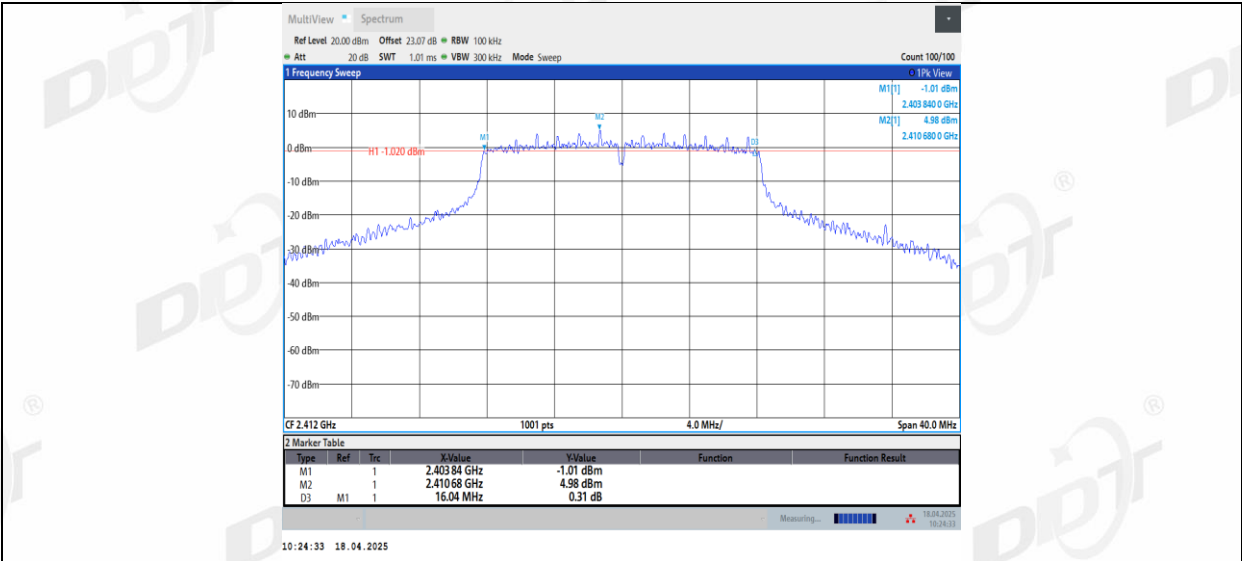
4.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	23.9℃,43.1%RH	Test Date:	2025.04.18-2025.04.18
Test Power Supply:	AC 120V/60Hz	Sample Number:	S25030626-003

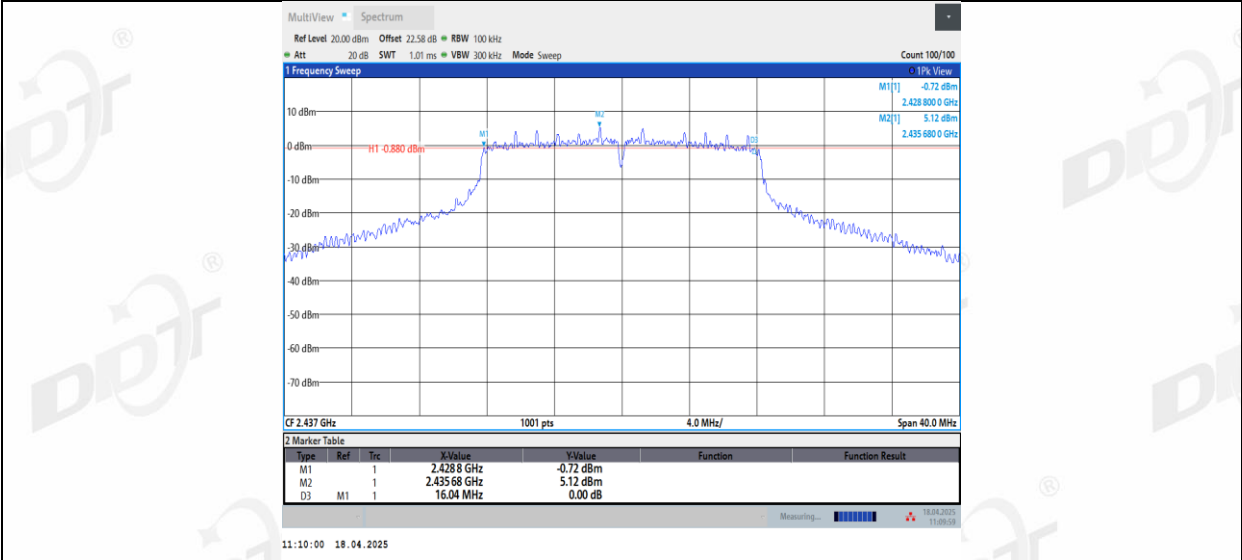
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	9.04	2407.44	2416.48	0.5	PASS
		2437	9.04	2432.44	2441.48	0.5	PASS
		2462	9.04	2457.44	2466.48	0.5	PASS
11G	Ant1	2412	16.04	2403.84	2419.88	0.5	PASS
		2437	16.04	2428.80	2444.84	0.5	PASS
		2462	16.28	2453.80	2470.08	0.5	PASS
11N20SISO	Ant1	2412	17.28	2403.20	2420.48	0.5	PASS
		2437	16.92	2428.20	2445.12	0.5	PASS
		2462	16.28	2453.44	2469.72	0.5	PASS
11N40SISO	Ant1	2422	35.28	2404.24	2439.52	0.5	PASS
		2437	35.20	2419.40	2454.60	0.5	PASS
		2452	35.52	2434.08	2469.60	0.5	PASS
11AX20SISO	Ant1	2412	17.76	2402.68	2420.44	0.5	PASS
		2437	18.24	2427.72	2445.96	0.5	PASS
		2462	18.44	2452.72	2471.16	0.5	PASS
11AX40SISO	Ant1	2422	36.96	2403.52	2440.48	0.5	PASS
		2437	36.40	2418.20	2454.60	0.5	PASS
		2452	36.40	2433.20	2469.60	0.5	PASS

4.5. Test graphs

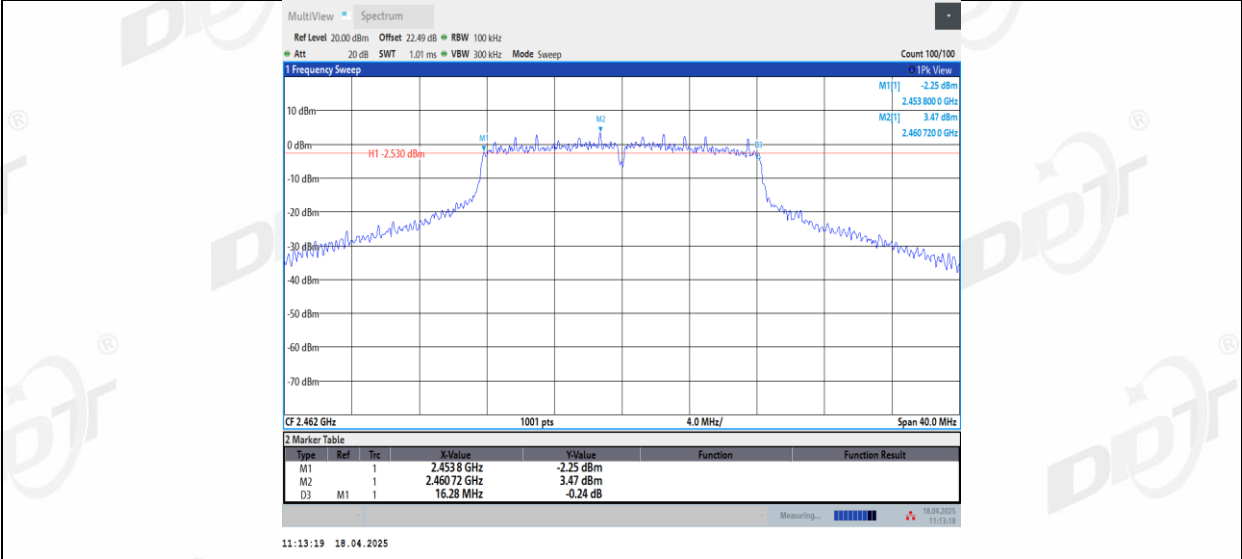




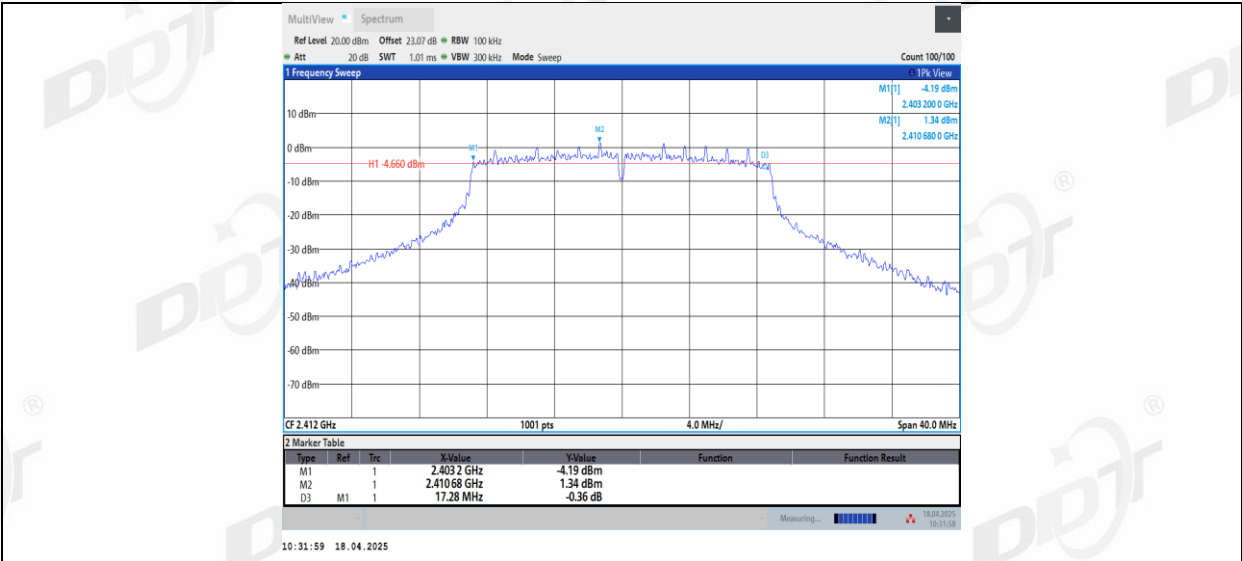
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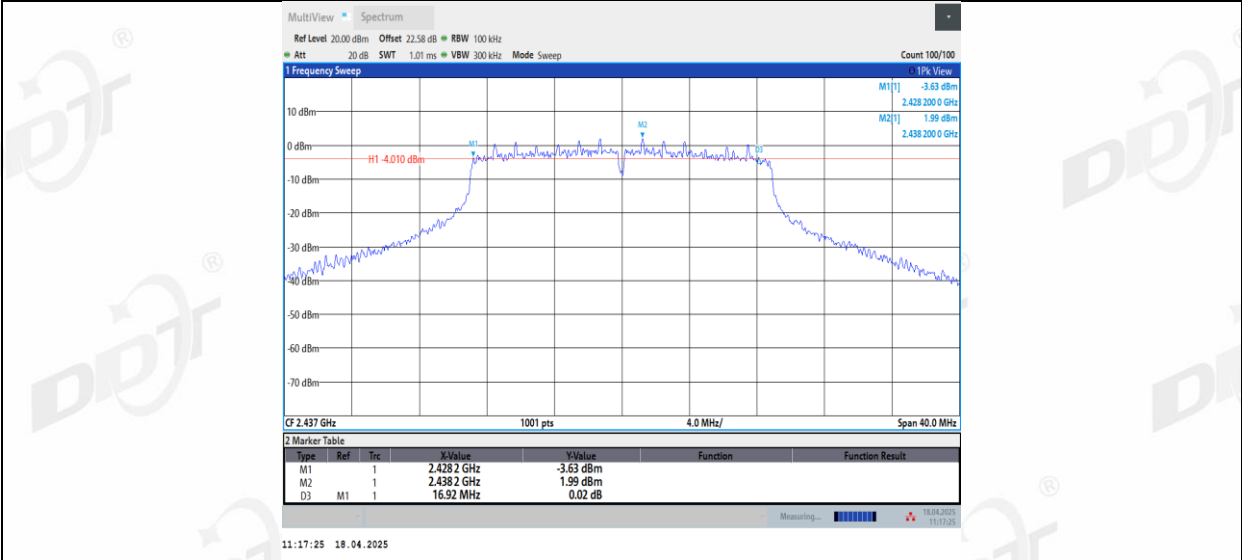
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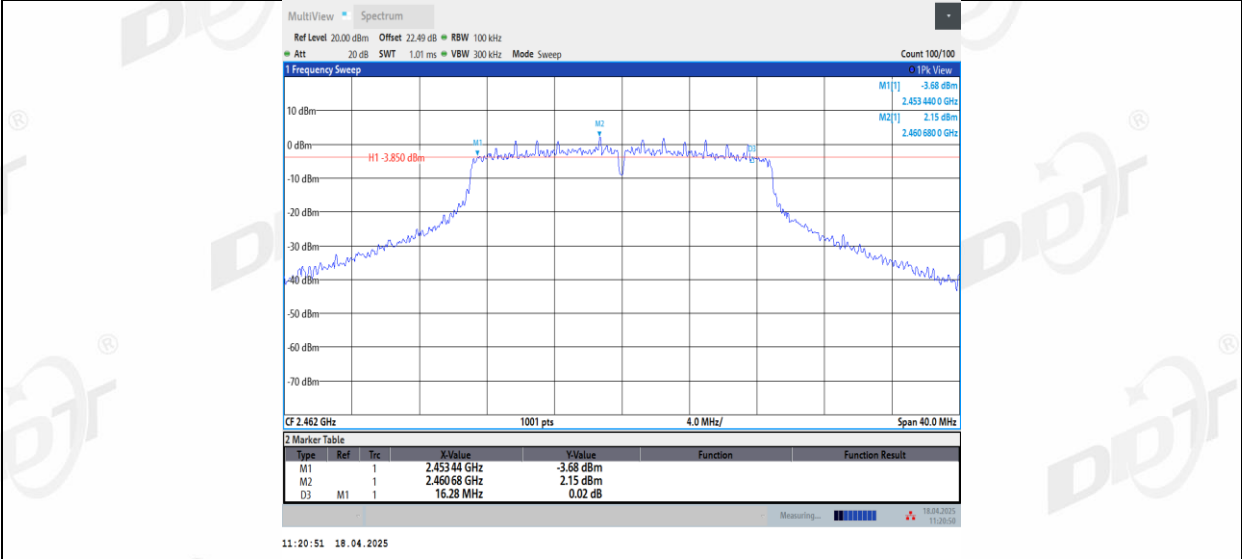
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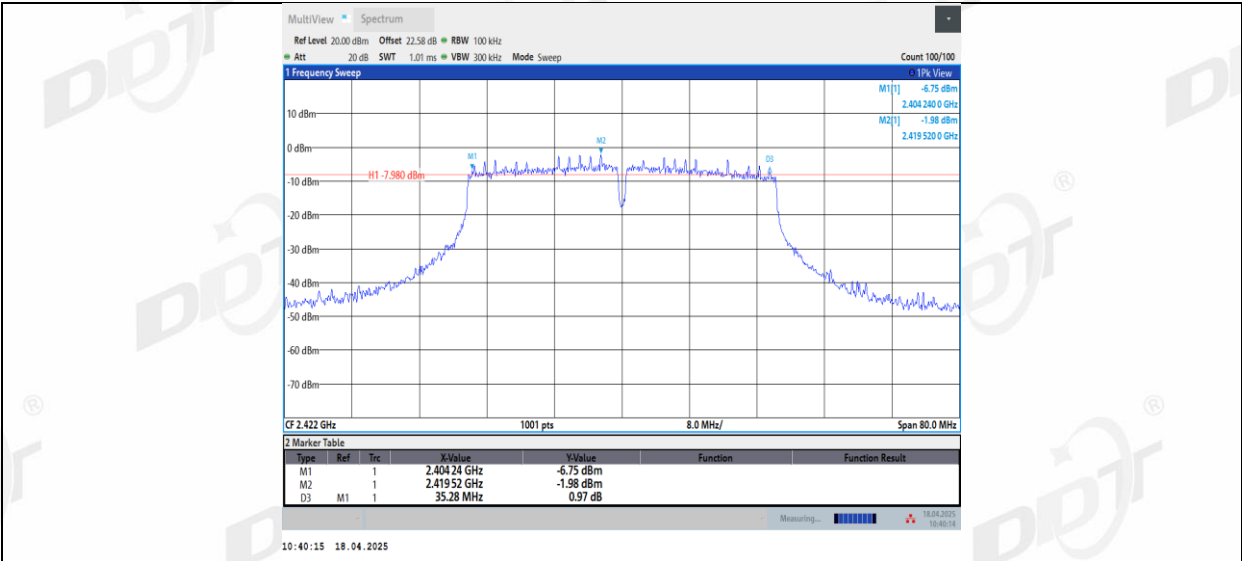
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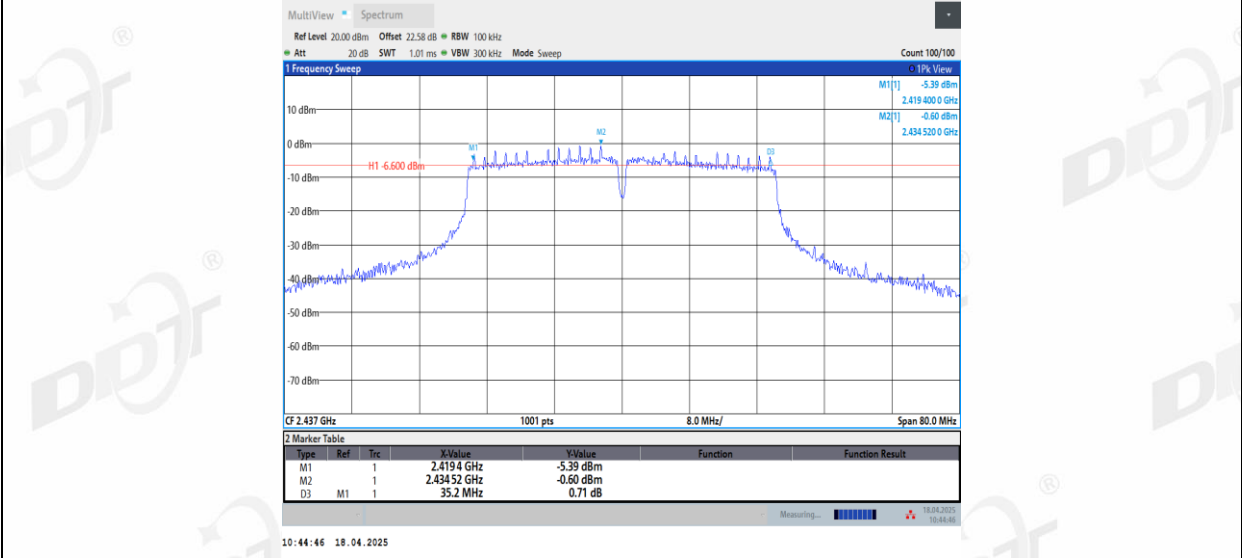
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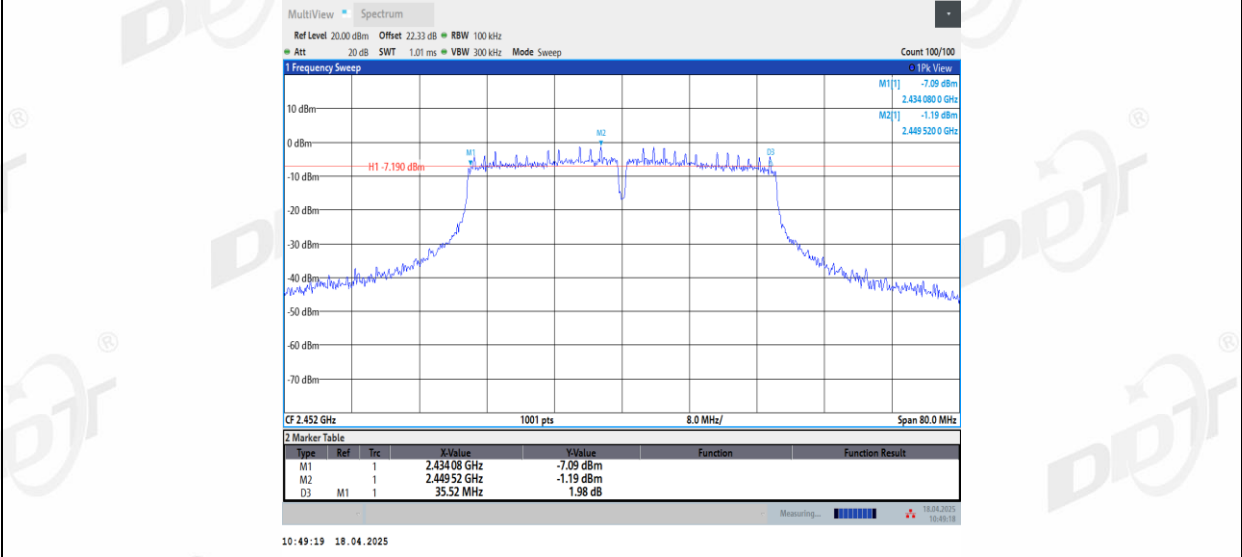
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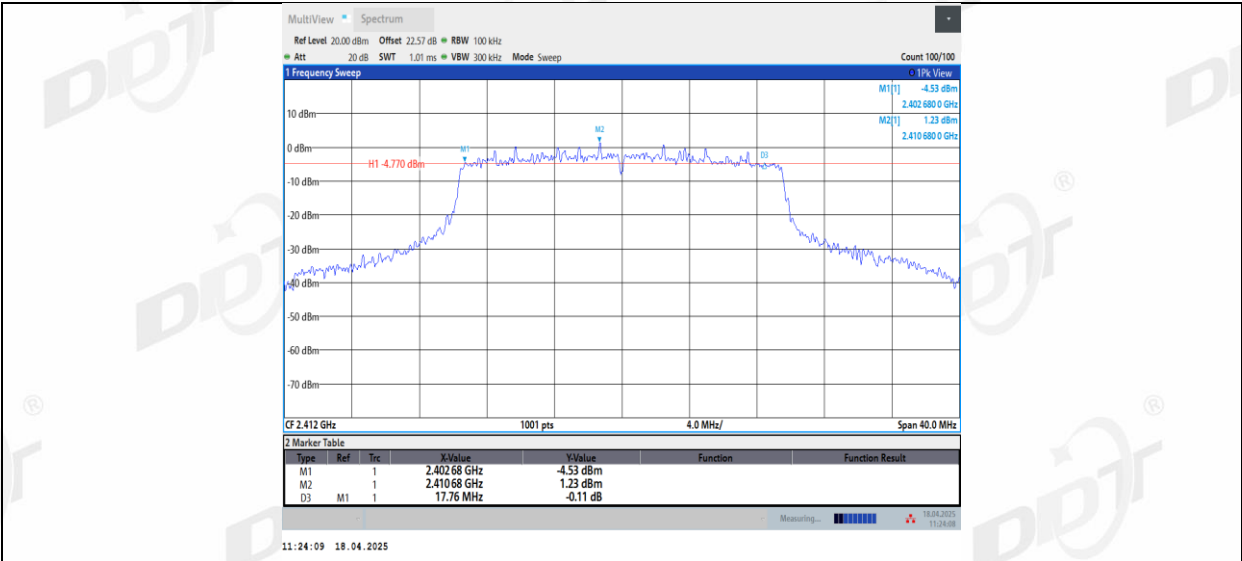
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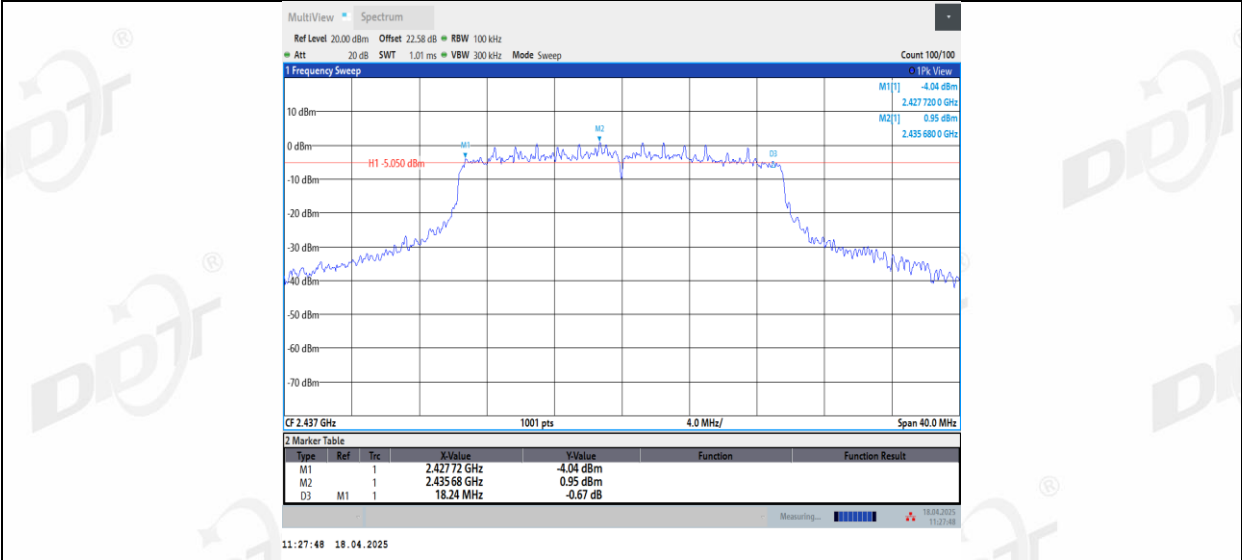
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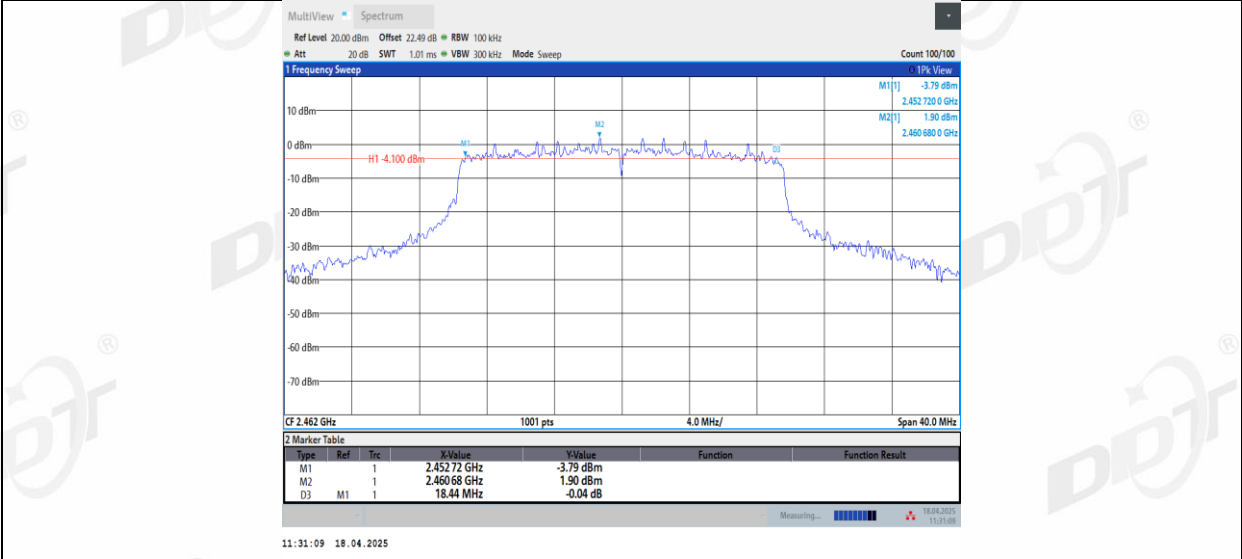
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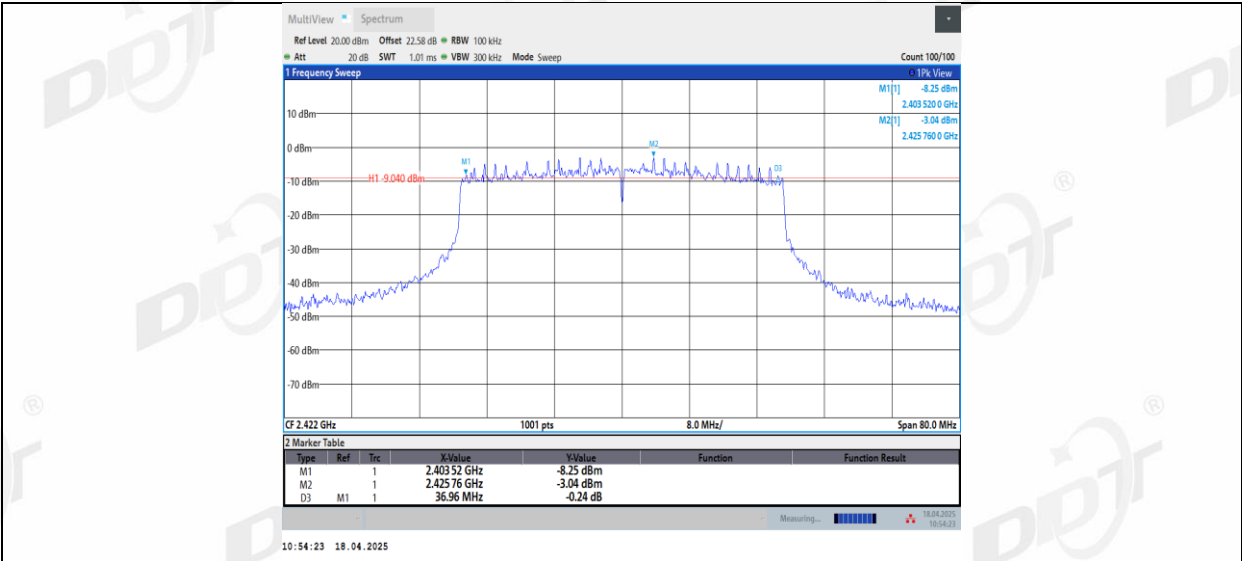
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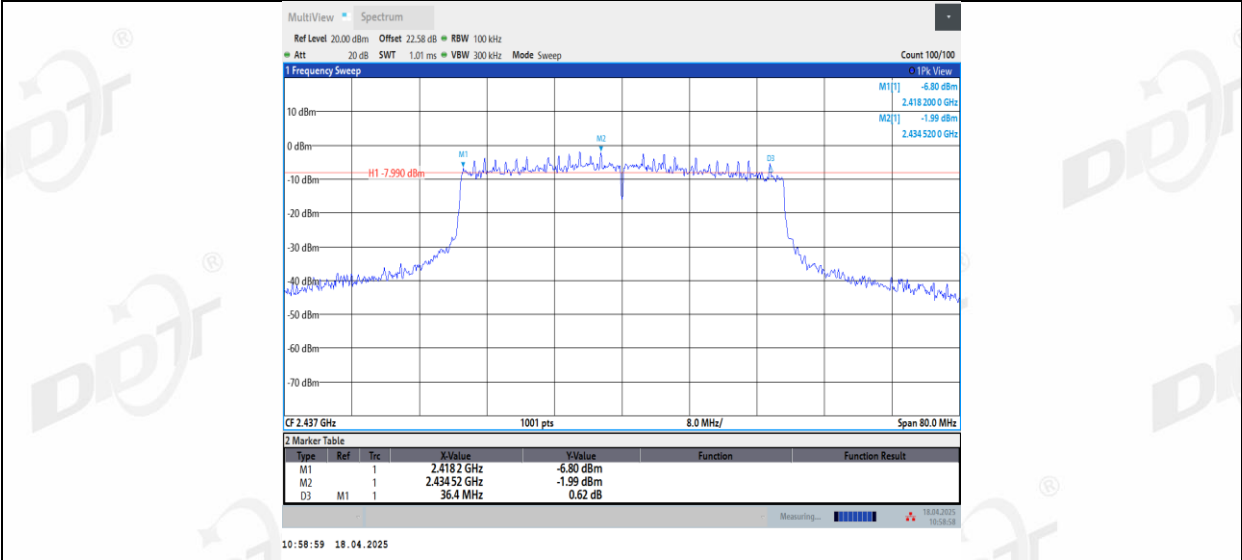
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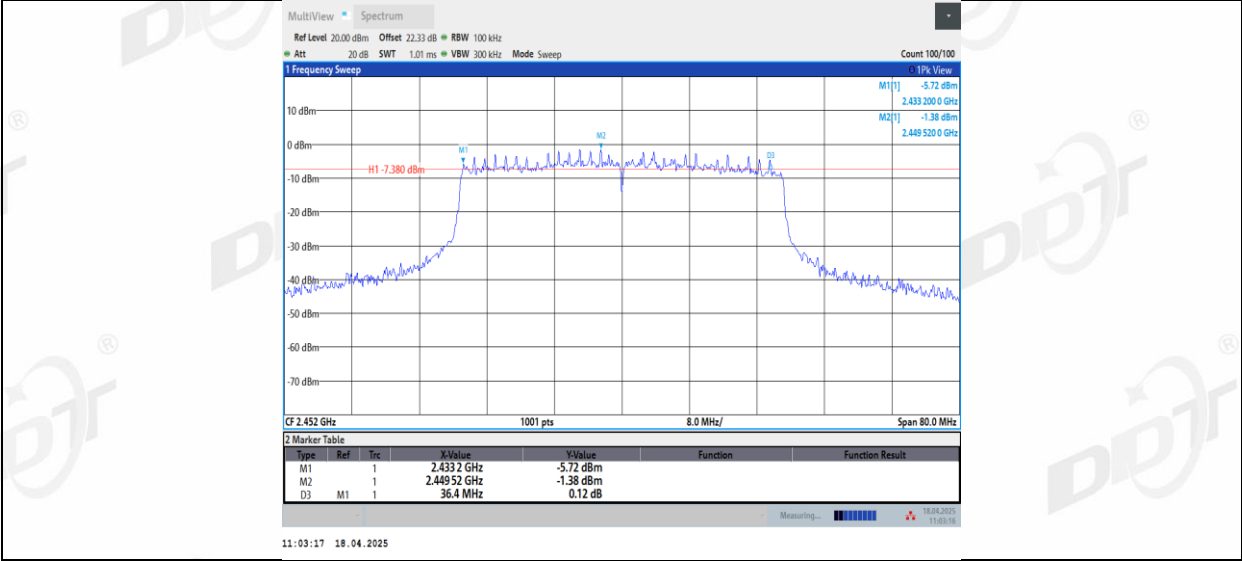
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11AX40SISO_Ant1_2437

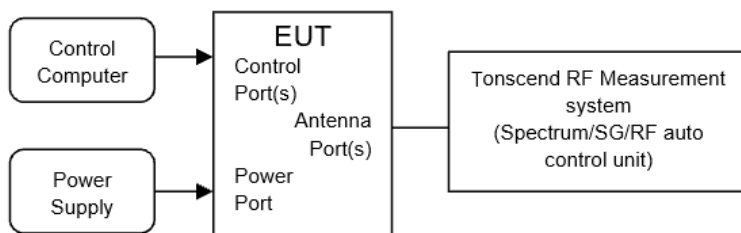


11AX40SISO_Ant1_2452



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

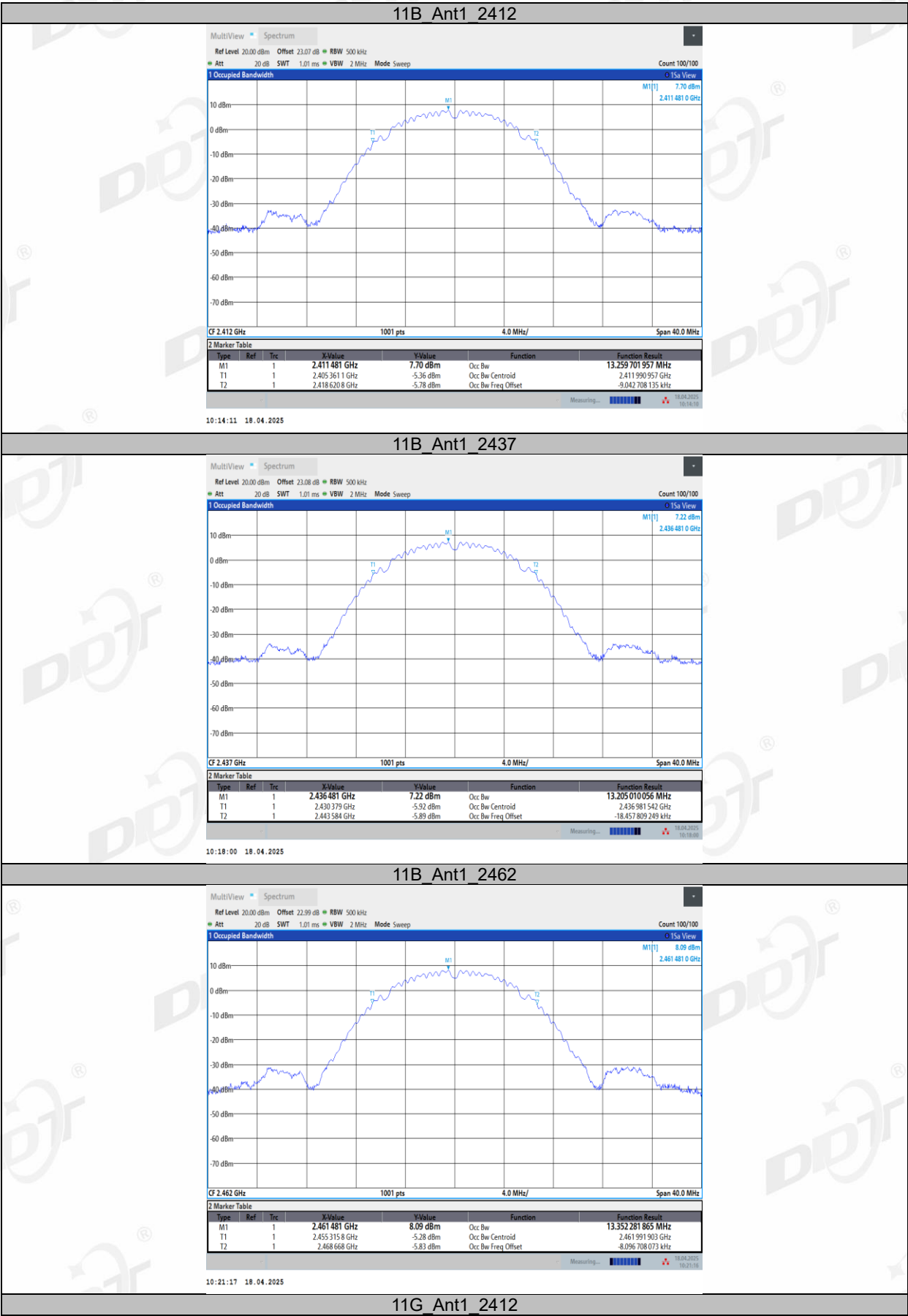
Allow the trace to stabilize, measure the 99% bandwidth of signal, and record the results in the report.

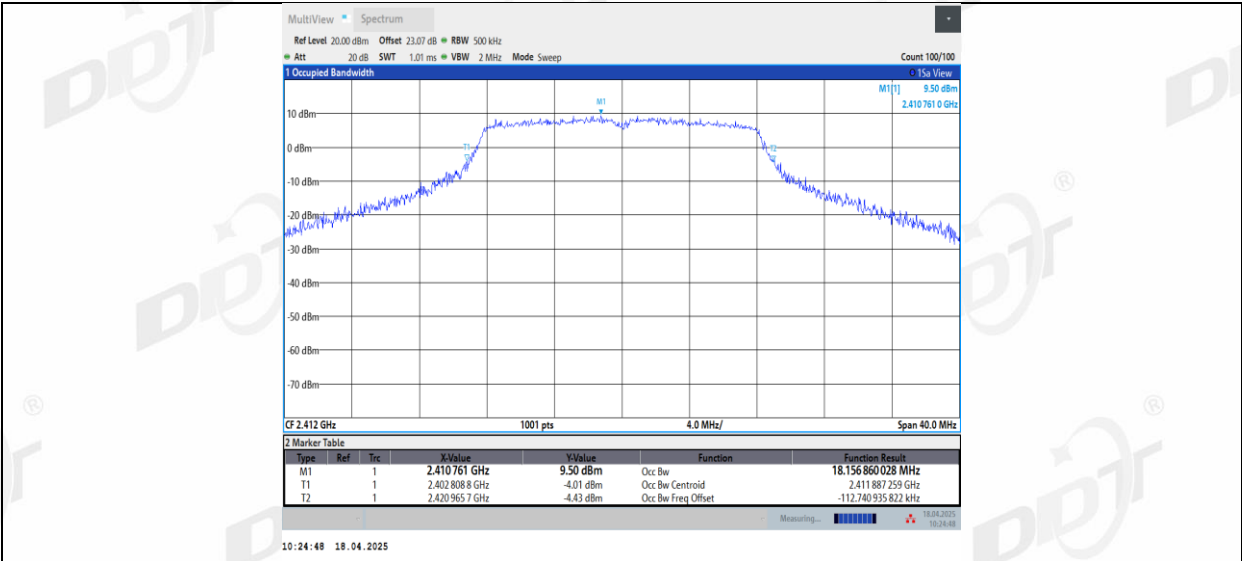
5.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	23.9℃,43.1%RH	Test Date:	2025.04.18-2025.04.18
Test Power Supply:	AC 120V/60Hz	Sample Number:	S25030626-003

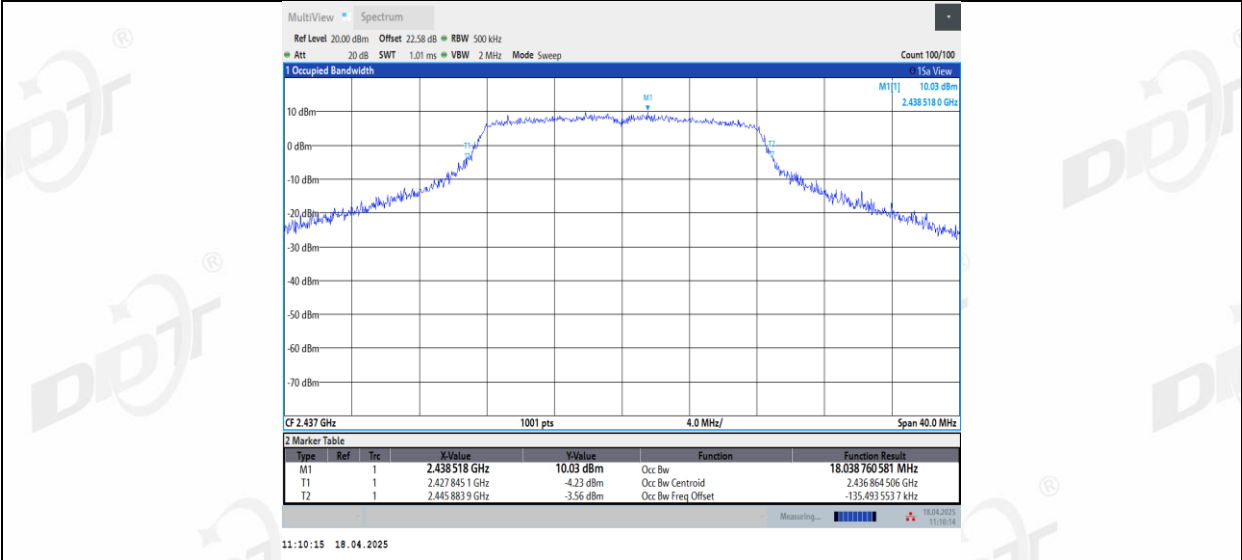
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.26	2405.3611	2418.6208	---	---
		2437	13.205	2430.3790	2443.5840	---	---
		2462	13.352	2455.3158	2468.6680	---	---
11G	Ant1	2412	18.157	2402.8088	2420.9657	---	---
		2437	18.039	2427.8451	2445.8839	---	---
		2462	18.058	2452.7555	2470.8136	---	---
11N20SIS O	Ant1	2412	18.733	2402.5621	2421.2952	---	---
		2437	18.87	2427.4847	2446.3544	---	---
		2462	18.789	2452.5686	2471.3579	---	---
11N40SIS O	Ant1	2422	36.854	2403.3983	2440.2520	---	---
		2437	36.976	2418.3953	2455.3710	---	---
		2452	36.913	2433.3727	2470.2859	---	---
11AX20Si SO	Ant1	2412	19.375	2402.2704	2421.6450	---	---
		2437	19.371	2427.2715	2446.6425	---	---
		2462	19.405	2452.2848	2471.6900	---	---
11AX40Si SO	Ant1	2422	38.1	2402.8516	2440.9514	---	---
		2437	38.142	2417.7840	2455.9264	---	---
		2452	38.211	2432.8047	2471.0154	---	---

5.5. Test graphs

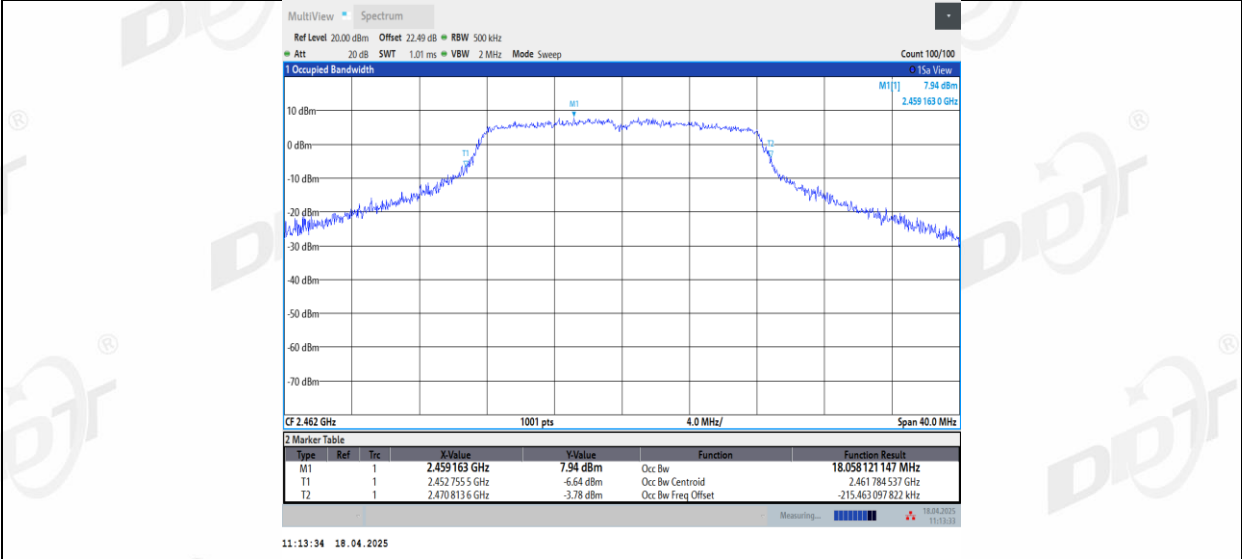




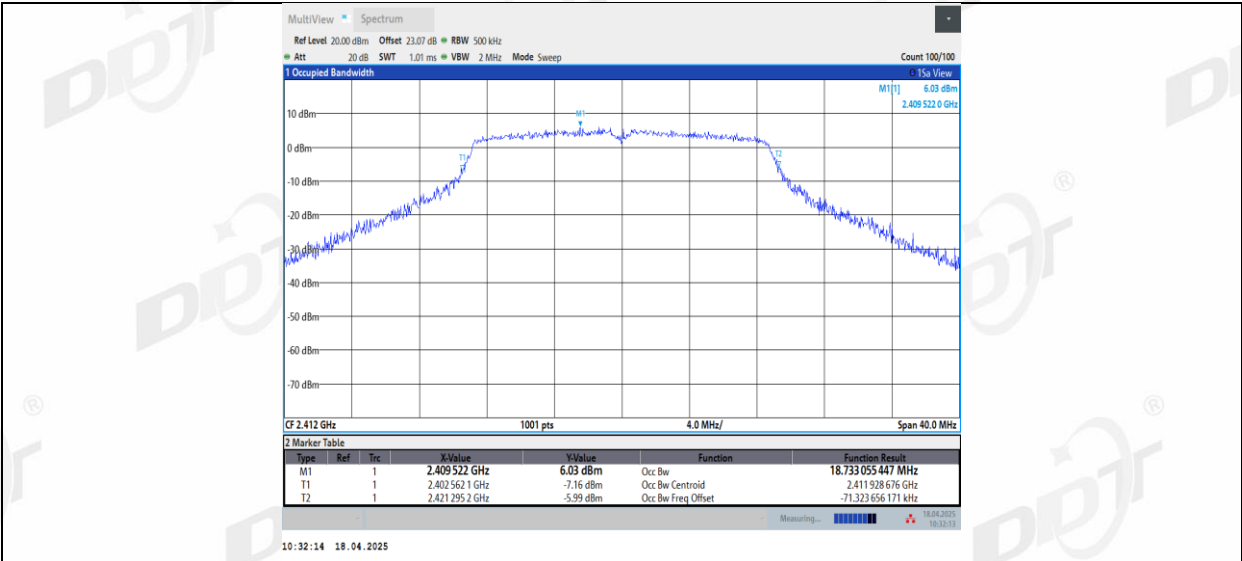
11G_Ant1_2437



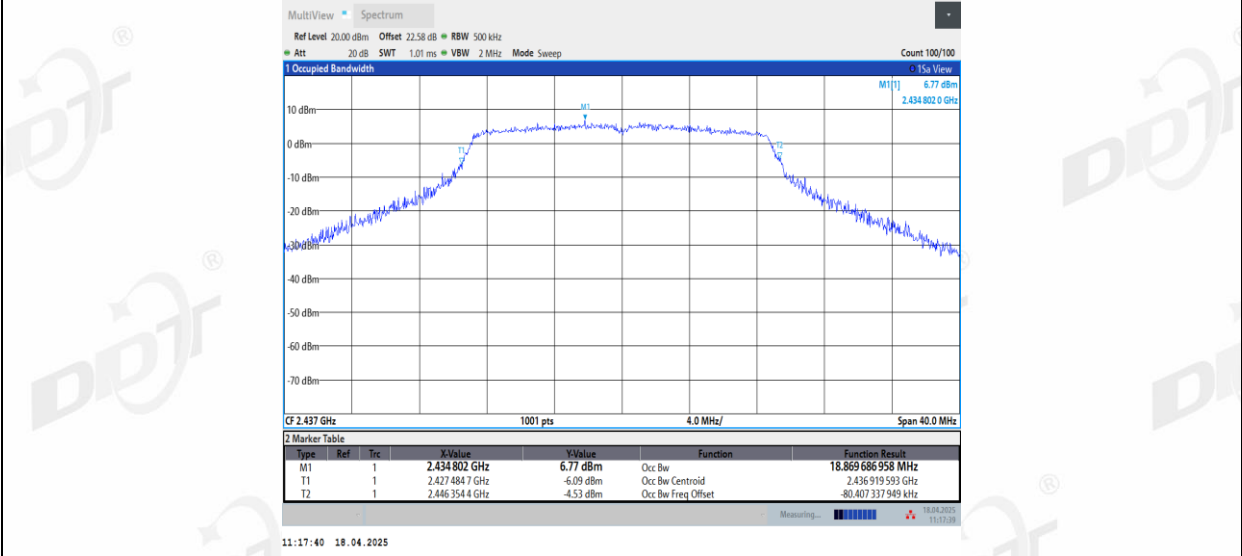
11G_Ant1_2462



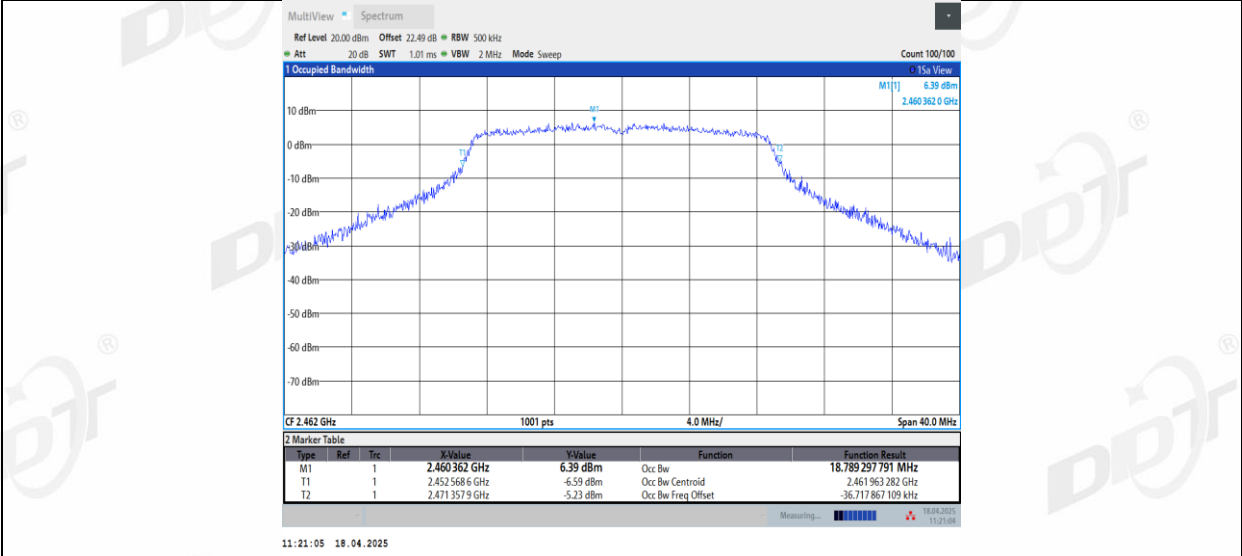
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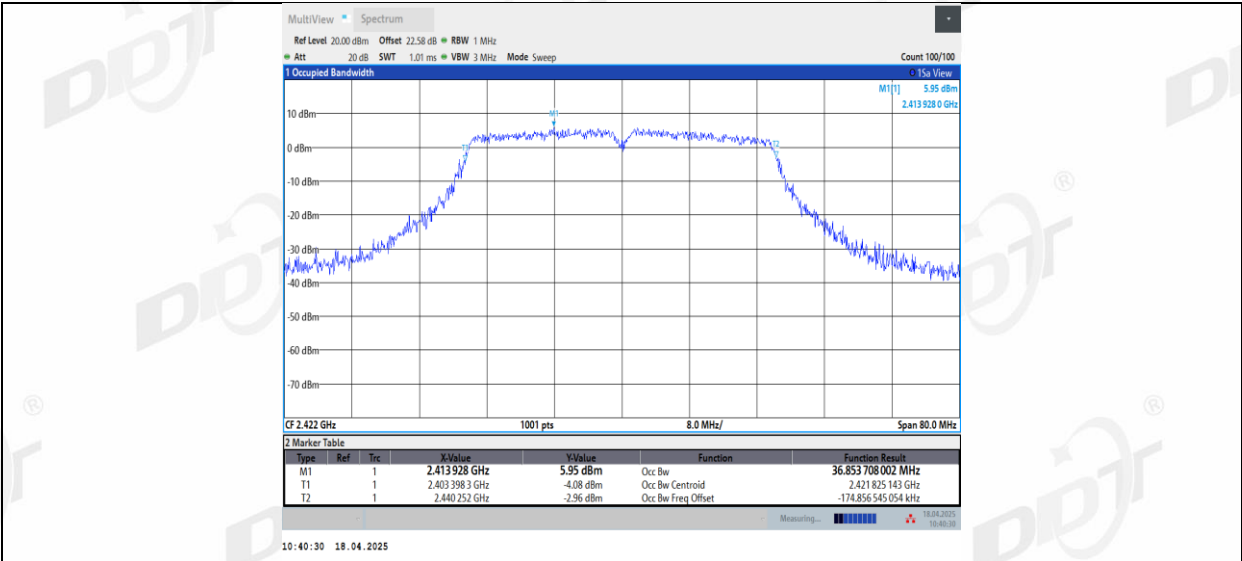
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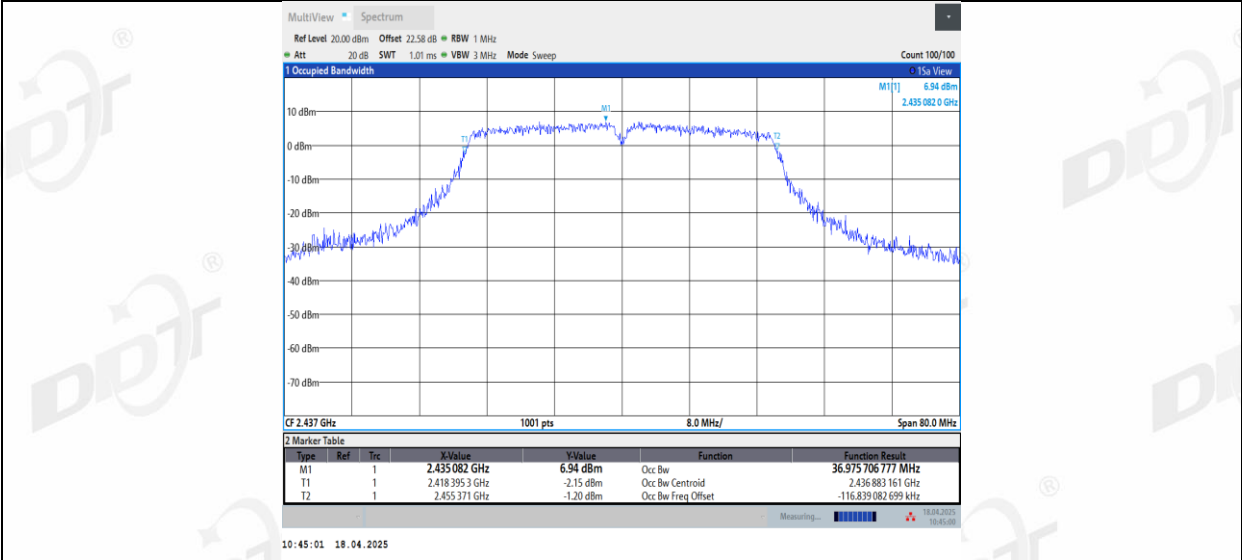
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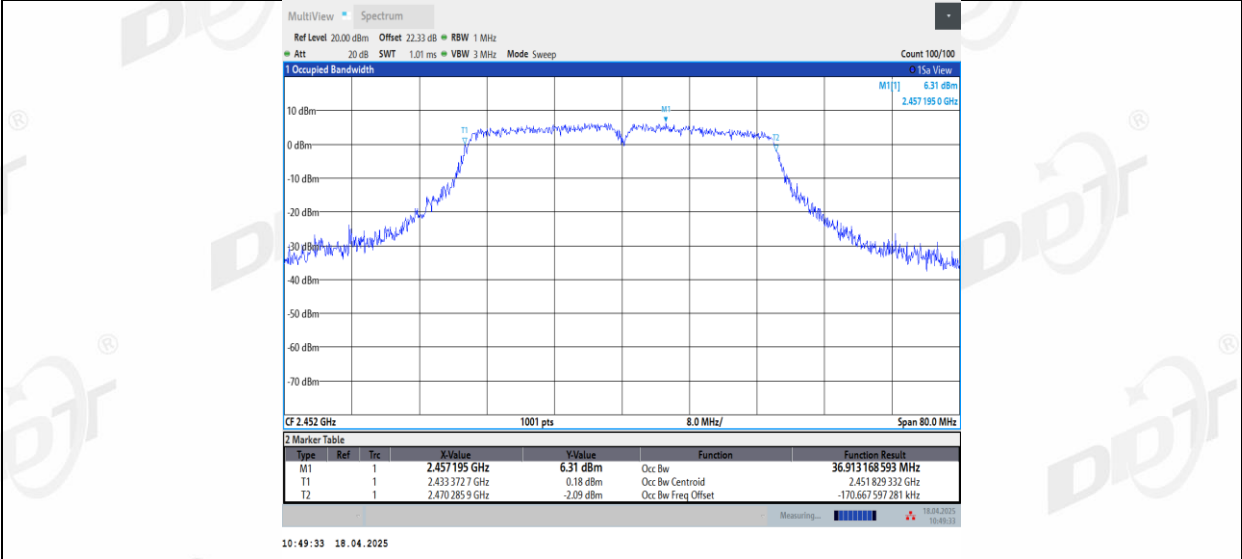
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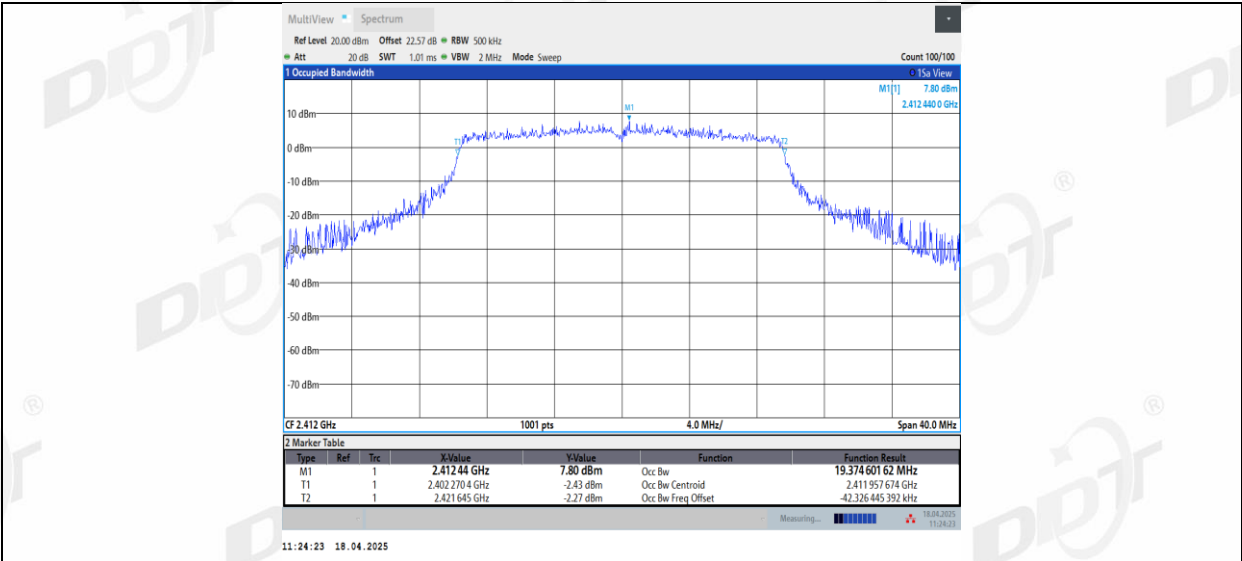
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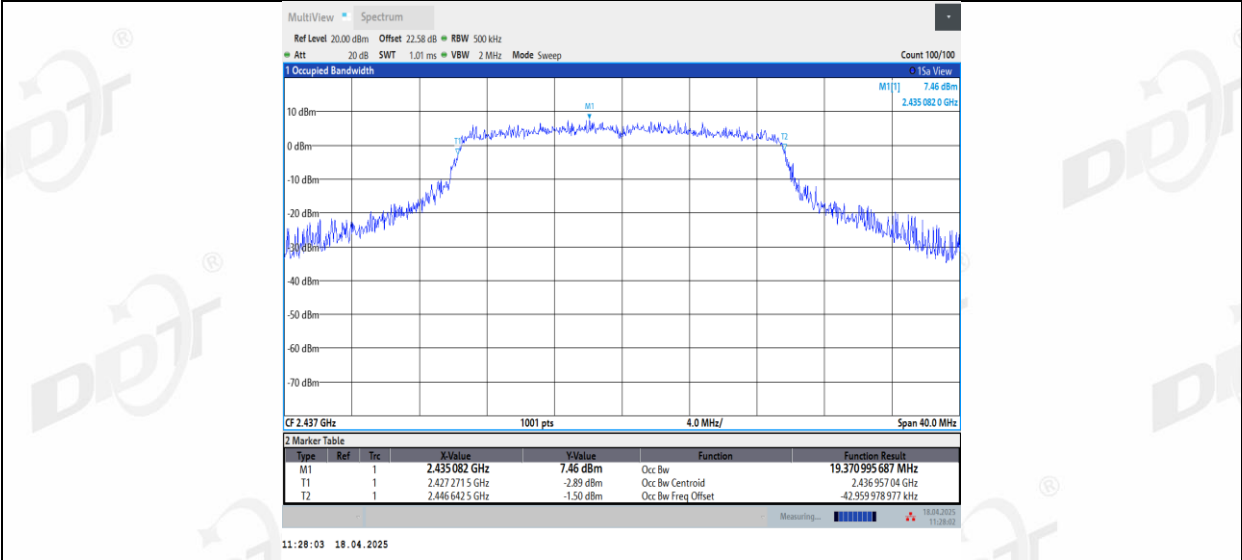
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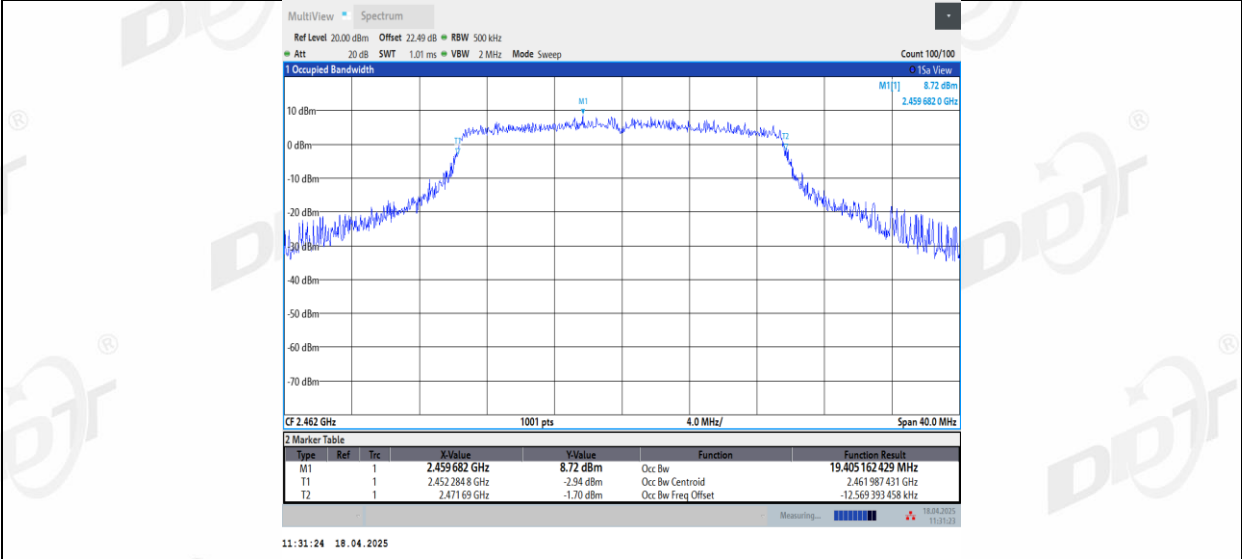
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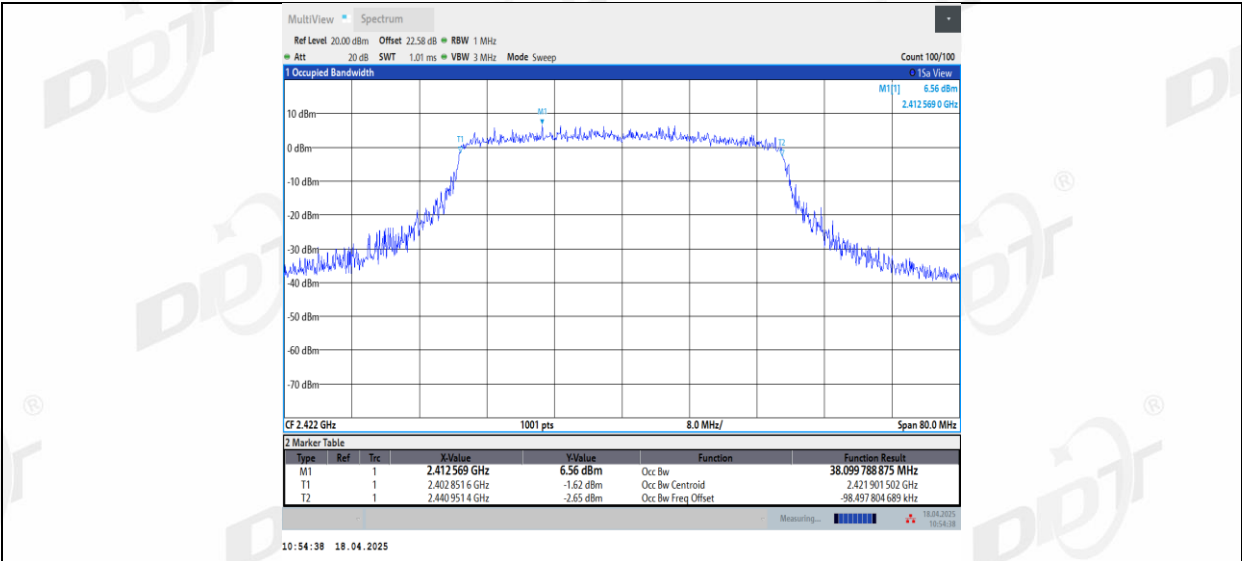
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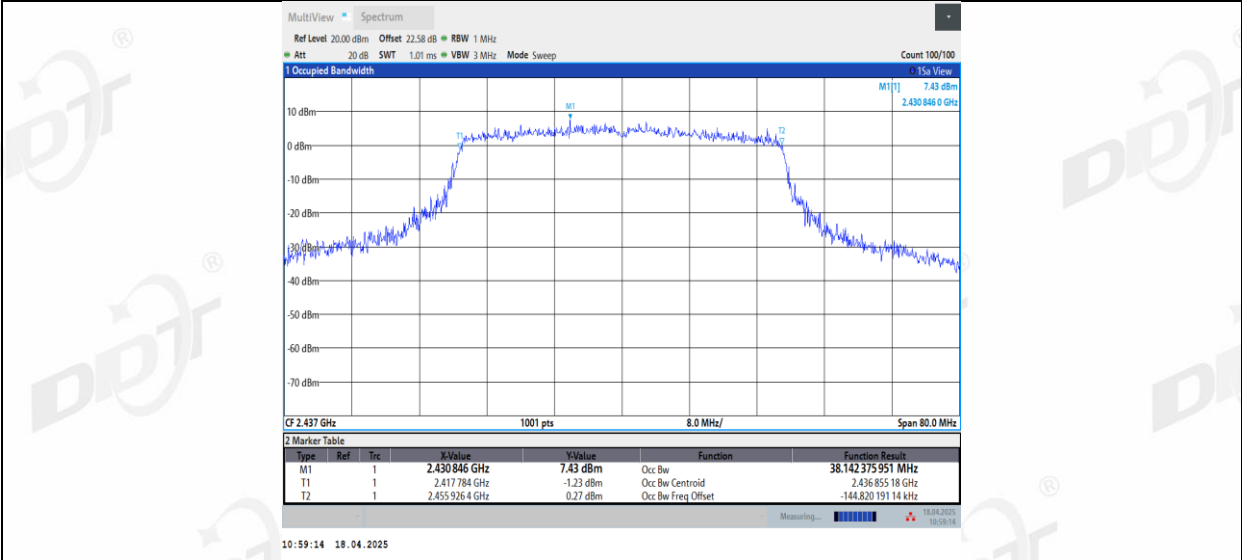
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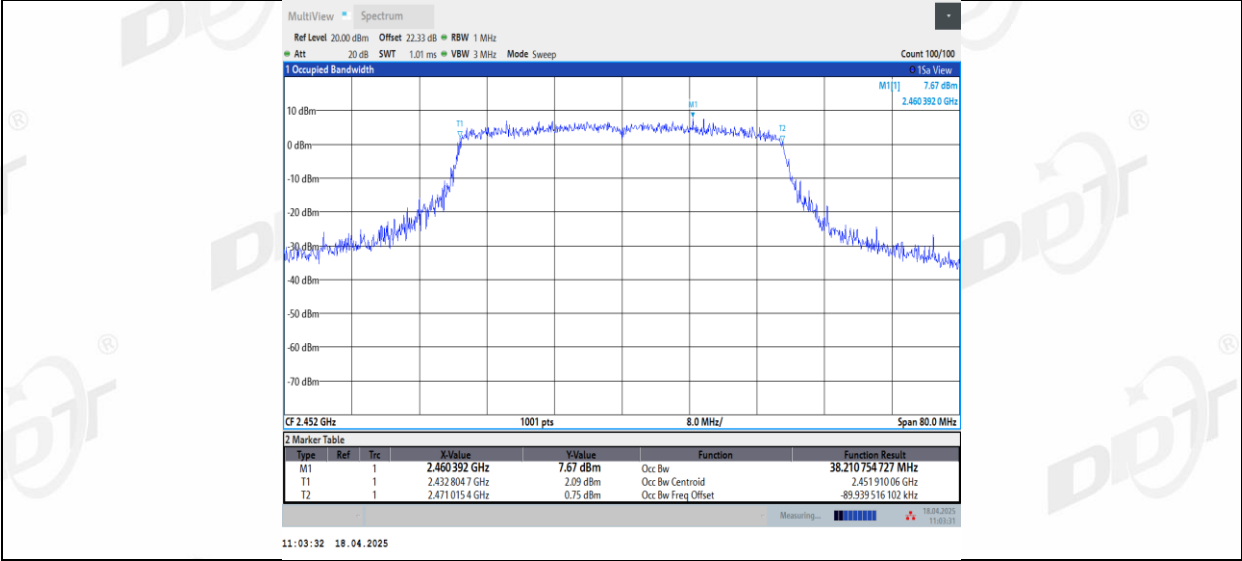
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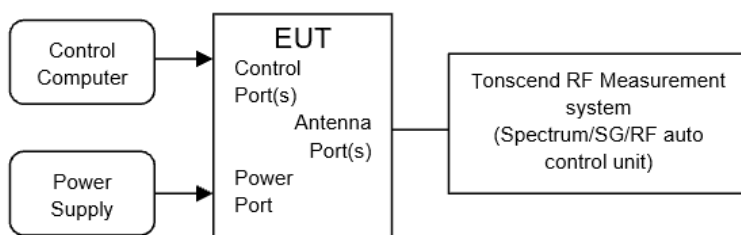


11AX40SISO_Ant1_2452



6. Conducted Output Power

6.1. Block diagram of test setup



6.2. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.9.2.3.
- (2) Connect EUT's antenna output to RF power meter 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, If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal.
- (4) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- (5) Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.
- (6) Record the RF average power of each antenna port.

6.4. Test result average

Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	23.9℃,43.1%RH	Test Date:	2025.04.18-2025.04.18
Test Power Supply:	AC 120V/60Hz	Sample Number:	S25030626-003

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	13.64	54.83	2.61	16.25	≤30.00	11.51	≤36.00	PASS
		2437	12.65	55.06	2.59	15.24	≤30.00	10.50	≤36.00	PASS
		2462	13.77	54.83	2.61	16.38	≤30.00	11.64	≤36.00	PASS
11G	Ant1	2412	8.56	16.76	7.76	16.32	≤30.00	11.58	≤36.00	PASS
		2437	8.27	16.97	7.70	15.97	≤30.00	11.23	≤36.00	PASS
		2462	8.38	16.80	7.75	16.13	≤30.00	11.39	≤36.00	PASS
11N20 SISO	Ant1	2412	5.00	15.90	7.99	12.99	≤30.00	8.25	≤36.00	PASS
		2437	5.34	15.94	7.98	13.32	≤30.00	8.58	≤36.00	PASS
		2462	5.63	15.77	8.02	13.65	≤30.00	8.91	≤36.00	PASS
11N40 SISO	Ant1	2422	1.90	8.49	10.71	12.61	≤30.00	7.87	≤36.00	PASS
		2437	2.50	8.49	10.71	13.21	≤30.00	8.47	≤36.00	PASS
		2452	2.61	8.39	10.76	13.37	≤30.00	8.63	≤36.00	PASS
11AX20 SISO	Ant1	2412	3.53	13.04	8.85	12.38	≤30.00	7.64	≤36.00	PASS
		2437	4.18	12.61	8.99	13.17	≤30.00	8.43	≤36.00	PASS
		2462	3.97	12.61	8.99	12.96	≤30.00	8.22	≤36.00	PASS
11AX40 SISO	Ant1	2422	1.05	5.77	12.39	13.44	≤30.00	8.70	≤36.00	PASS
		2437	2.07	6.94	11.59	13.66	≤30.00	8.92	≤36.00	PASS
		2452	1.74	7.13	11.47	13.21	≤30.00	8.47	≤36.00	PASS

Note: EIRP (dBm)=Conducted Output Power (dBm)+ Antenna Gain (dBi)