



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 E, ANSI C63.10:2013, 789033 D02 General U-NII Test Procedures New Rules v02r01, 662911 D01 Multiple Transmitter Output v02r01
Report No.	:	DDT-RE25030626-1E04
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

REPORT

Table of Contents

1.	Summary of Test Results	7
2.	General Test Information	8
2.1.	Description of EUT	8
2.2.	Accessories of EUT	9
2.3.	Block diagram of EUT configuration for test.....	9
2.4.	Decision of final test mode	10
2.5.	Deviations of test standard	12
2.6.	Test environment conditions.....	12
2.7.	Test laboratory	13
2.8.	Measurement uncertainty	13
3.	Equipment Used During Conductive Test	14
4.	26dB Bandwidth.....	15
4.1.	Block diagram of test setup	15
4.2.	Limits.....	15
4.3.	Test procedure.....	15
4.4.	Test result	16
4.5.	Test graphs	18
5.	6dB Bandwidth.....	50
5.1.	Block diagram of test setup	50
5.2.	Limits.....	50
5.3.	Test procedure.....	50
5.4.	Test result B4.....	51
5.5.	Test graphs B4.....	52
6.	99% Bandwidth.....	59
6.1.	Block diagram of test setup	59
6.2.	Limits.....	59
6.3.	Test procedure.....	59
6.4.	Test result	60
6.5.	Test graphs	62
7.	Duty Cycle.....	94
7.1.	Block diagram of test setup	94
7.2.	Limit.....	94
7.3.	Test procedure.....	94
7.4.	Test result	95
7.5.	Test graphs	97
8.	Maximum Output Power	129

8.1.	Block diagram of test setup	129
8.2.	Limits.....	129
8.3.	Test procedure.....	129
8.4.	Test result channel power	130
9.	Power Spectral Density	132
9.1.	Block diagram of test setup	132
9.2.	Limits.....	132
9.3.	Test procedure.....	132
9.4.	Test result	134
9.5.	Test graphs	136
10.	Frequency Stability Measurement.....	171
10.1.	Limit of Frequency Stability	171
10.2.	Measuring Instruments	171
10.3.	Test procedures	171
10.4.	Test setup	171
10.5.	Test result	172
11.	Dynamic Frequency Selection.....	176
11.1.	Applicability of DFS requirements	176
11.2.	Limit.....	177
11.3.	Parameters of radar test waveforms	177
11.4.	Calibration of radar waveform	178
11.5.	Channel closing transmission time, channel move time and non-occupancy period.....	185
11.6.	Test setup	185
11.7.	Test result	186
12.	Antenna Requirements	188
12.1.	Limit.....	188
12.2.	Result.....	188
13.	Radiated Emission.....	189
13.1.	Test equipment	189
13.2.	Block diagram of test setup	189
13.3.	Limits.....	190
13.4.	Assistant equipment used for test	192
13.5.	Test procedure.....	192
13.6.	Test result	193
13.7.	Test data	194
14.	Band Edge Compliance	222
14.1.	Test equipment	222
14.2.	Block diagram of test setup	222

14.3.	Limits.....	223
14.4.	Assistant equipment used for test	223
14.5.	Test procedure.....	223
14.6.	Test result	223
14.7.	Test data	224
15.	Power Line Conducted Emissions.....	354
15.1.	Test equipment.....	354
15.2.	Block diagram of test setup	354
15.3.	Limits.....	354
15.4.	Assistant equipment used for test	354
15.5.	Test procedure.....	354
15.6.	Test result	355
15.7.	Test data	356
16.	Test Setup Photograph.....	358
17.	Photos of the EUT	360

Test Report Declare

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Equipment under Test	:	Wine Cooler
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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 E,
ANSI C63.10:2013,
789033 D02 General U-NII Test Procedures New Rules v02r01,
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-RE25030626-1E04		
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	6/26db Bandwidth and 99% Bandwidth	FCC 15.407 (e)	/	Pass
2	Output Power	FCC 15.407 (a)	/	Pass
3	Power Spectral Density	FCC 15.407 (a)	/	Pass
4	Frequency Stability Measurement	FCC 15.407 (g)	/	Pass
5	Radiated Emission	FCC 15.407 (b); FCC 15.209; FCC 15.205	/	Pass
6	Band Edge Compliance	FCC 15.407 (b); FCC 15.209; FCC 15.205	/	Pass
7	Power Line Conducted Emissions	FCC Part 15: 15.207(a)	/	Pass
8	Dynamic Frequency Selection	FCC 15.407 (h)	/	Pass
9	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)	: -1.35

Radio Technology	: IEEE 802.11a/n/ac/ax
Operation frequency	: U-NII-1: 5180 MHz to 5240 MHz U-NII-2A: 5260 MHz to 5320 MHz U-NII-2C: 5500 MHz to 5720 MHz U-NII-3: 5745 MHz to 5825 MHz
Modulation	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM, OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)

Channel information					
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HE20)		IEEE 802.11n (HT40) IEEE802.11ac (VHT40) IEEE 802.11ax (HE40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HE80)	
UNII-1					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	/	/
44	5220	/	/	/	/
48	5240	/	/	/	/
UNII-2A					
52	5260	54	5270	58	5290
56	5280	62	5310	/	/
60	5300	/	/	/	/
64	5320	/	/	/	/
UNII-2C					
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690

					(Straddle)
112	5560	126	5630	/	/
116	5580	134	5670	/	/
120	5600	142	5710 (Straddle)	/	/
124	5620	/	/	/	/
128	5640	/	/	/	/
132	5660	/	/	/	/
136	5680	/	/	/	/
140	5700	/	/	/	/
144	5720 (Straddle)	/	/	/	/
UNII-3					
149	5745	151	5755	155	5775
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/
Note: Band 5600-5650MHz will be disabled when shipped to Canada.					

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: 2 dB (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)
IEEE 802.11a	12	6	LCH: CH36	5180
	12	6	MCH: CH40	5200
	12	6	HCH: CH48	5240
	12	6	LCH: CH52	5260
	12	6	MCH: CH56	5280
	12	6	HCH: CH64	5320
	12	6	LCH: CH100	5500
	12	6	MCH: CH116	5580
	12	6	HCH: CH140	5700
	12	6	Straddle: CH144	5720
	16	6	LCH: CH149	5745
	16	6	MCH: CH157	5785
	16	6	HCH: CH165	5825
IEEE 802.11n HT20	12	MCS 0	LCH: CH36	5180
	12	MCS 0	MCH: CH40	5200
	12	MCS 0	HCH: CH48	5240
	12	MCS 0	LCH: CH52	5260
	12	MCS 0	MCH: CH56	5280
	12	MCS 0	HCH: CH64	5320
	12	MCS 0	LCH: CH100	5500
	12	MCS 0	MCH: CH116	5580
	12	MCS 0	HCH: CH140	5700
	12	MCS 0	Straddle: CH144	5720
	16	MCS 0	LCH: CH149	5745
	16	MCS 0	MCH: CH157	5785
	16	MCS 0	HCH: CH165	5825
IEEE 802.11n HT40	12	MCS 0	LCH: CH38	5190
	12	MCS 0	HCH: CH46	5230
	12	MCS 0	LCH: CH54	5270
	12	MCS 0	HCH: CH62	5310
	12	MCS 0	LCH: CH102	5510

	12	MCS 0	MCH: CH110	5550
	12	MCS 0	HCH: CH134	5670
	12	MCS 0	Straddle: CH151	5710
	16	MCS 0	LCH: CH151	5755
	16	MCS 0	HCH: CH159	5795
IEEE 802.11ac VHT20	12	MCS 0	LCH: CH36	5180
	12	MCS 0	MCH: CH40	5200
	12	MCS 0	HCH: CH48	5240
	12	MCS 0	LCH: CH52	5260
	12	MCS 0	MCH: CH56	5280
	12	MCS 0	HCH: CH64	5320
	12	MCS 0	LCH: CH100	5500
	12	MCS 0	MCH: CH116	5580
	12	MCS 0	HCH: CH140	5700
	12	MCS 0	Straddle: CH144	5720
	16	MCS 0	LCH: CH149	5745
	16	MCS 0	MCH: CH157	5785
	16	MCS 0	HCH: CH165	5825
IEEE 802.11 ac VHT40	12	MCS 0	LCH: CH38	5190
	12	MCS 0	HCH: CH46	5230
	12	MCS 0	LCH: CH54	5270
	12	MCS 0	HCH: CH62	5310
	12	MCS 0	LCH: CH102	5510
	12	MCS 0	MCH: CH110	5550
	12	MCS 0	HCH: CH134	5670
	12	MCS 0	Straddle: CH151	5710
	16	MCS 0	LCH: CH159	5755
	16	MCS 0	HCH: CH36	5795
IEEE 802.11ac VHT80	12	MCS 0	CH42	5210
	12	MCS 0	CH58	5290
	12	MCS 0	LCH: CH106	5530
	12	MCS 0	HCH: CH122	5610
	12	MCS 0	Straddle: CH138	5690
	16	MCS 0	CH155	5775
IEEE 802.11ax HE20	12	MCS 0	LCH: CH36	5180
	12	MCS 0	MCH: CH40	5200
	12	MCS 0	HCH: CH48	5240
	12	MCS 0	LCH: CH52	5260
	12	MCS 0	MCH: CH56	5280
	12	MCS 0	HCH: CH64	5320

	12	MCS 0	LCH: CH100	5500
	12	MCS 0	MCH: CH116	5580
	12	MCS 0	HCH: CH140	5700
	12	MCS 0	Straddle: CH144	5720
	16	MCS 0	LCH: CH149	5745
	16	MCS 0	MCH: CH157	5785
	16	MCS 0	HCH: CH165	5825
IEEE 802.11ax HE40	12	MCS 0	LCH: CH38	5190
	12	MCS 0	HCH: CH46	5230
	12	MCS 0	LCH: CH54	5270
	12	MCS 0	HCH: CH62	5310
	12	MCS 0	LCH: CH102	5510
	12	MCS 0	MCH: CH110	5550
	12	MCS 0	HCH: CH134	5670
	12	MCS 0	Straddle: CH151	5710
	16	MCS 0	LCH: CH159	5755
	16	MCS 0	HCH: CH36	5795
IEEE 802.11ax HE80	12	MCS 0	CH42	5210
	12	MCS 0	CH58	5290
	12	MCS 0	LCH: CH106	5530
	12	MCS 0	HCH: CH122	5610
	12	MCS 0	Straddle: CH138	5690
	16	MCS 0	CH155	5775
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

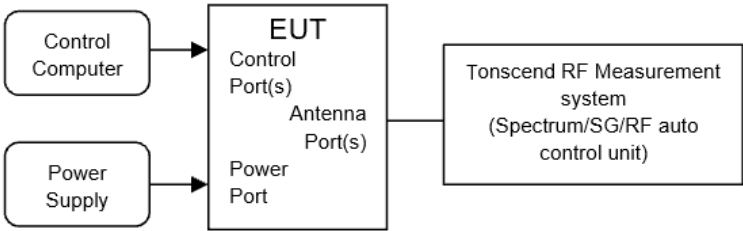
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	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. 26dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
26 dB Bandwidth	---	5150 - 5250
	---	5250 - 5350
	---	For FCC: 5470 - 5725
	---	For IC: 5470 - 5600 5650 - 5725

4.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	approximately 1% of the emission bandwidth.
VBW	> RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

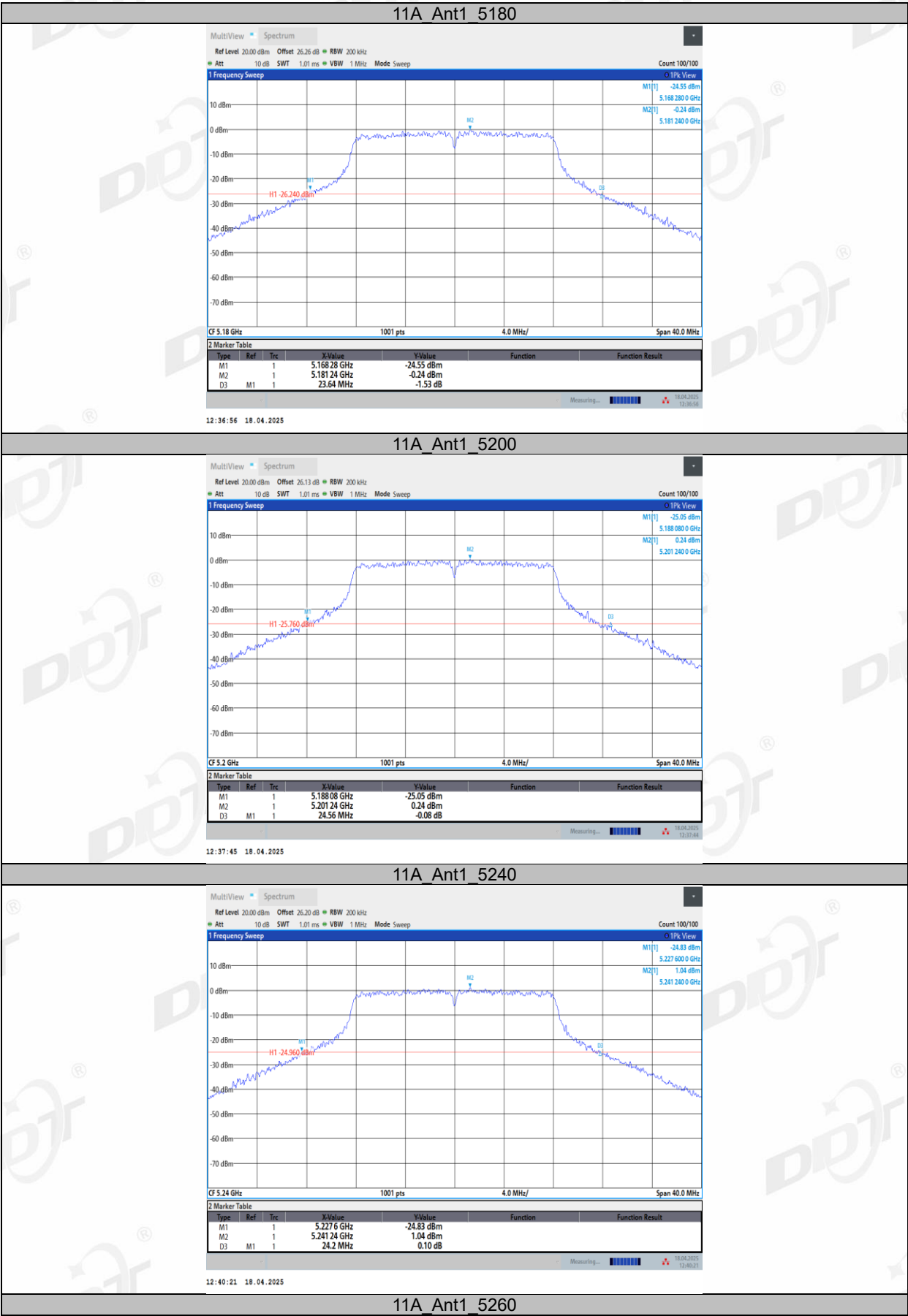
4.4. Test result

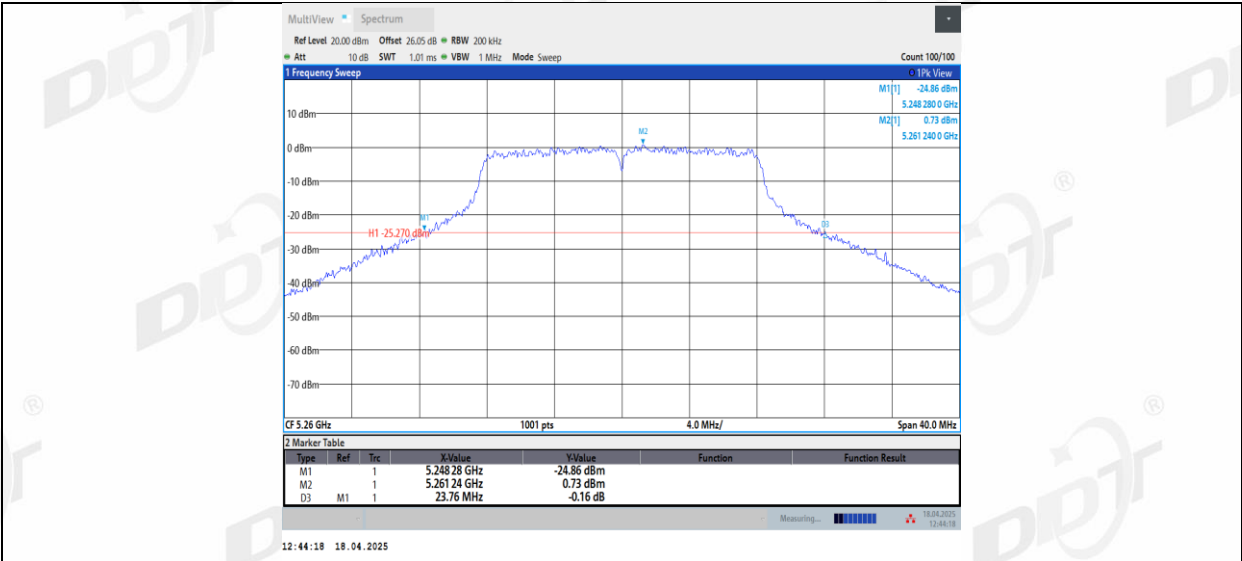
Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	23.9℃,43.1%RH	Test Date:	2025.04.18-2025.04.19
Test Power Supply:	AC 120V/60Hz	Sample Number:	S25030626-003

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	23.64	5168.28	5191.92	---	---
		5200	24.56	5188.08	5212.64	---	---
		5240	24.20	5227.60	5251.80	---	---
		5260	23.76	5248.28	5272.04	---	---
		5280	24.48	5267.96	5292.44	---	---
		5320	24.08	5307.96	5332.04	---	---
		5500	25.00	5487.32	5512.32	---	---
		5580	24.72	5567.32	5592.04	---	---
		5700	24.84	5687.28	5712.12	---	---
		5720	24.52	5707.48	5732.00	---	---
		5720 UNII-2C	17.52	5707.48	5725	---	---
		5720 UNII-3	7	5725	5732.00	---	---
		5745	24.48	5732.24	5756.72	---	---
		5785	24.96	5772.12	5797.08	---	---
		5825	24.36	5812.68	5837.04	---	---
11N20SISO	Ant1	5180	24.92	5167.48	5192.40	---	---
		5200	25.00	5187.48	5212.48	---	---
		5240	24.96	5227.56	5252.52	---	---
		5260	25.32	5247.76	5273.08	---	---
		5280	25.28	5267.64	5292.92	---	---
		5320	25.28	5307.32	5332.60	---	---
		5500	25.88	5487.36	5513.24	---	---
		5580	25.56	5567.20	5592.76	---	---
		5700	25.76	5687.04	5712.80	---	---
		5720	25.92	5706.80	5732.72	---	---
		5720 UNII-2C	18.2	5706.80	5725	---	---
		5720 UNII-3	7.72	5725	5732.72	---	---
		5745	25.64	5731.88	5757.52	---	---
		5785	25.44	5772.24	5797.68	---	---
		5825	25.64	5812.16	5837.80	---	---
11N40SISO	Ant1	5190	46.72	5167.12	5213.84	---	---
		5230	47.20	5207.12	5254.32	---	---
		5270	46.40	5247.52	5293.92	---	---
		5310	46.72	5286.96	5333.68	---	---
		5510	48.40	5485.68	5534.08	---	---
		5550	48.00	5526.00	5574.00	---	---
		5670	47.20	5646.16	5693.36	---	---
		5710	47.76	5686.16	5733.92	---	---
		5710 UNII-2C	38.84	5686.16	5725	---	---
		5710 UNII-3	8.92	5725	5733.92	---	---
		5755	47.84	5731.24	5779.08	---	---
		5795	47.28	5770.92	5818.20	---	---
11AC20SISO	Ant1	5180	24.92	5167.60	5192.52	---	---
		5200	25.08	5187.84	5212.92	---	---
		5240	25.28	5227.52	5252.80	---	---
		5260	25.20	5247.52	5272.72	---	---
		5280	24.36	5268.04	5292.40	---	---
		5320	24.60	5307.84	5332.44	---	---
		5500	25.16	5487.44	5512.60	---	---
		5580	26.08	5566.88	5592.96	---	---
		5700	25.60	5687.24	5712.84	---	---
		5720	25.96	5707.32	5733.28	---	---
		5720 UNII-2C	17.68	5707.32	5725	---	---
		5720 UNII-3	8.28	5725	5733.28	---	---
		5745	25.44	5732.40	5757.84	---	---
		5785	26.00	5771.60	5797.60	---	---

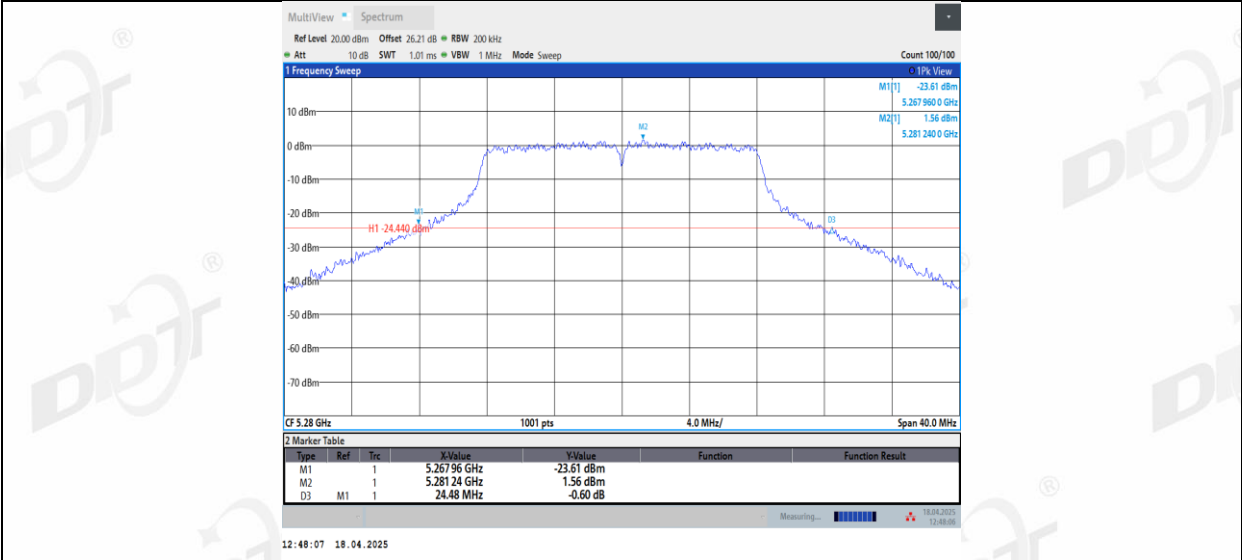
		5825	26.56	5811.72	5838.28	---	---
11AC40SISO	Ant1	5190	47.52	5166.64	5214.16	---	---
		5230	46.88	5207.12	5254.00	---	---
		5270	45.92	5247.36	5293.28	---	---
		5310	47.12	5286.80	5333.92	---	---
		5510	48.56	5486.00	5534.56	---	---
		5550	48.48	5526.24	5574.72	---	---
		5670	48.00	5645.52	5693.52	---	---
		5710	48.24	5685.76	5734.00	---	---
		5710 UNII-2C	39.24	5685.76	5725	---	---
		5710 UNII-3	9	5725	5734.00	---	---
		5755	48.64	5730.44	5779.08	---	---
		5795	48.00	5770.52	5818.52	---	---
11AC80SISO	Ant1	5210	87.20	5167.28	5254.48	---	---
		5290	87.36	5247.12	5334.48	---	---
		5530	88.96	5485.84	5574.80	---	---
		5610	91.84	5563.60	5655.44	---	---
		5690	89.92	5645.52	5735.44	---	---
		5690 UNII-2C	79.48	5645.52	5725	---	---
		5690 UNII-3	10.44	5725	5735.44	---	---
		5775	88.48	5731.00	5819.48	---	---
11AX20SISO	Ant1	5180	26.36	5166.76	5193.12	---	---
		5200	25.00	5187.96	5212.96	---	---
		5240	25.52	5227.16	5252.68	---	---
		5260	24.68	5247.88	5272.56	---	---
		5280	24.52	5267.92	5292.44	---	---
		5320	24.64	5308.48	5333.12	---	---
		5500	25.96	5486.96	5512.92	---	---
		5580	27.04	5565.60	5592.64	---	---
		5700	25.36	5687.20	5712.56	---	---
		5720	25.16	5707.36	5732.52	---	---
		5720 UNII-2C	17.64	5707.36	5725	---	---
		5720 UNII-3	7.52	5725	5732.52	---	---
		5745	24.92	5732.68	5757.60	---	---
		5785	24.84	5772.28	5797.12	---	---
		5825	24.88	5812.88	5837.76	---	---
11AX40SISO	Ant1	5190	44.96	5167.84	5212.80	---	---
		5230	46.32	5207.12	5253.44	---	---
		5270	44.96	5248.00	5292.96	---	---
		5310	44.16	5288.16	5332.32	---	---
		5510	46.80	5487.04	5533.84	---	---
		5550	45.60	5527.20	5572.80	---	---
		5670	45.44	5647.44	5692.88	---	---
		5710	45.84	5686.64	5732.48	---	---
		5710 UNII-2C	38.36	5686.64	5725	---	---
		5710 UNII-3	7.48	5725	5732.48	---	---
		5755	46.64	5731.64	5778.28	---	---
		5795	47.20	5770.92	5818.12	---	---
		5825	47.20	5812.88	5852.72	---	---
11AX80SISO	Ant1	5210	87.20	5167.28	5254.48	---	---
		5290	86.24	5247.44	5333.68	---	---
		5530	86.88	5486.80	5573.68	---	---
		5610	90.08	5565.04	5655.12	---	---
		5690	86.88	5646.80	5733.68	---	---
		5690 UNII-2C	78.2	5646.80	5725	---	---
		5690 UNII-3	8.68	5725	5733.68	---	---
		5775	86.72	5731.00	5817.72	---	---

4.5. Test graphs

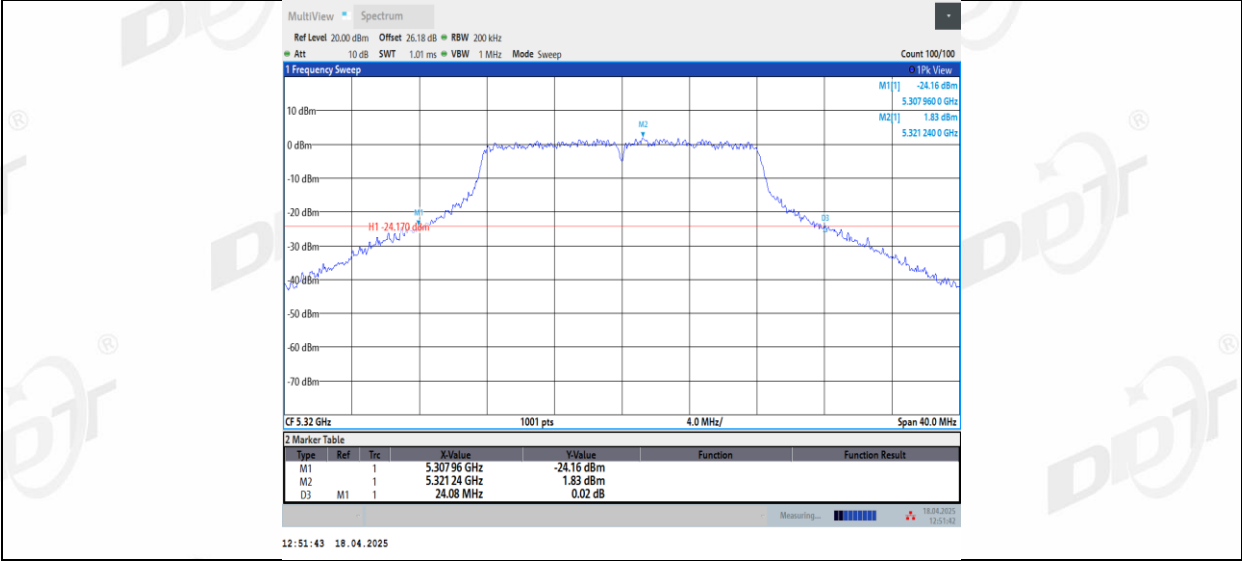




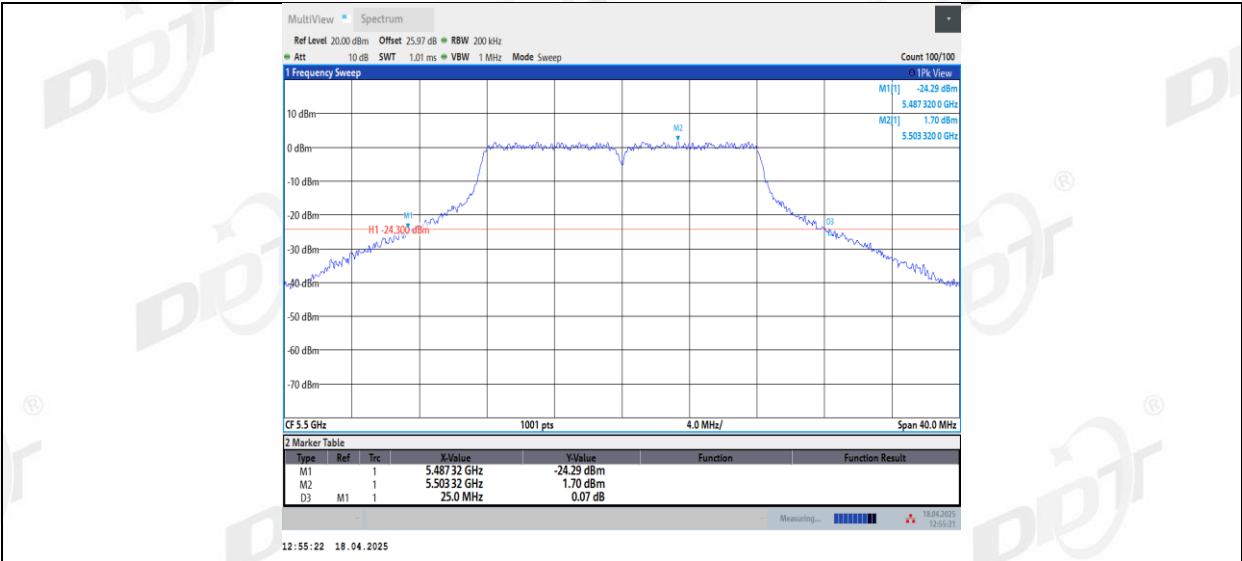
11A_Ant1_5280



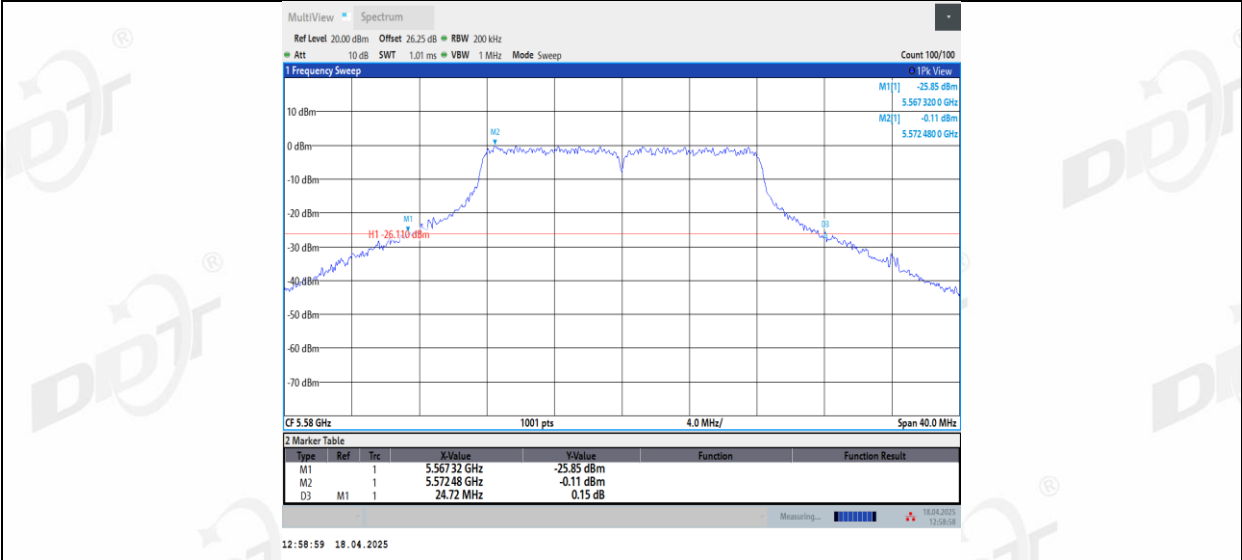
11A_Ant1_5320



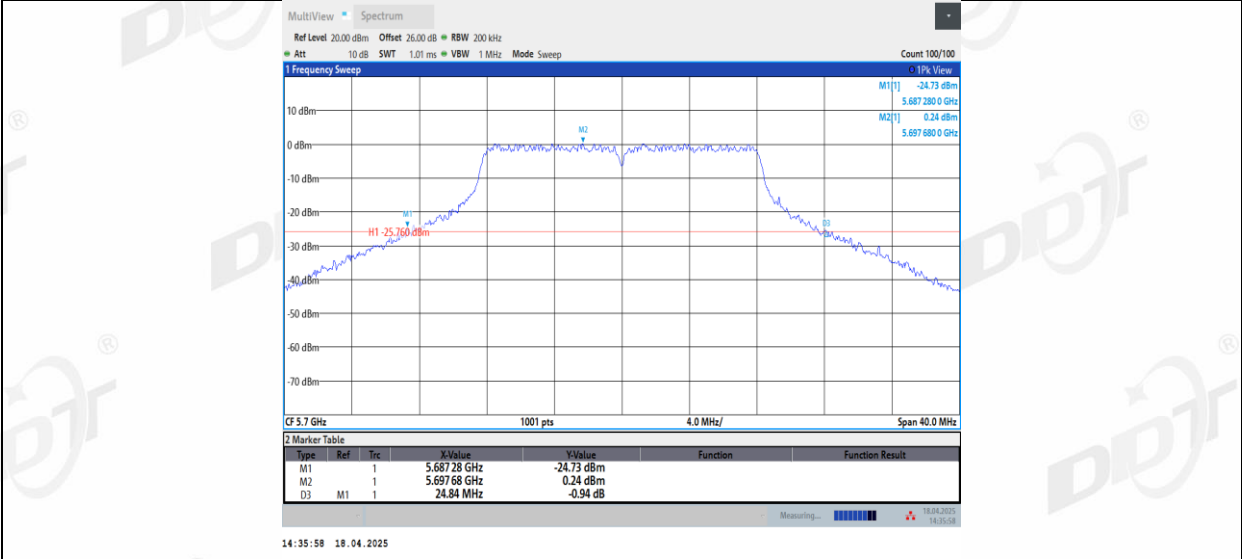
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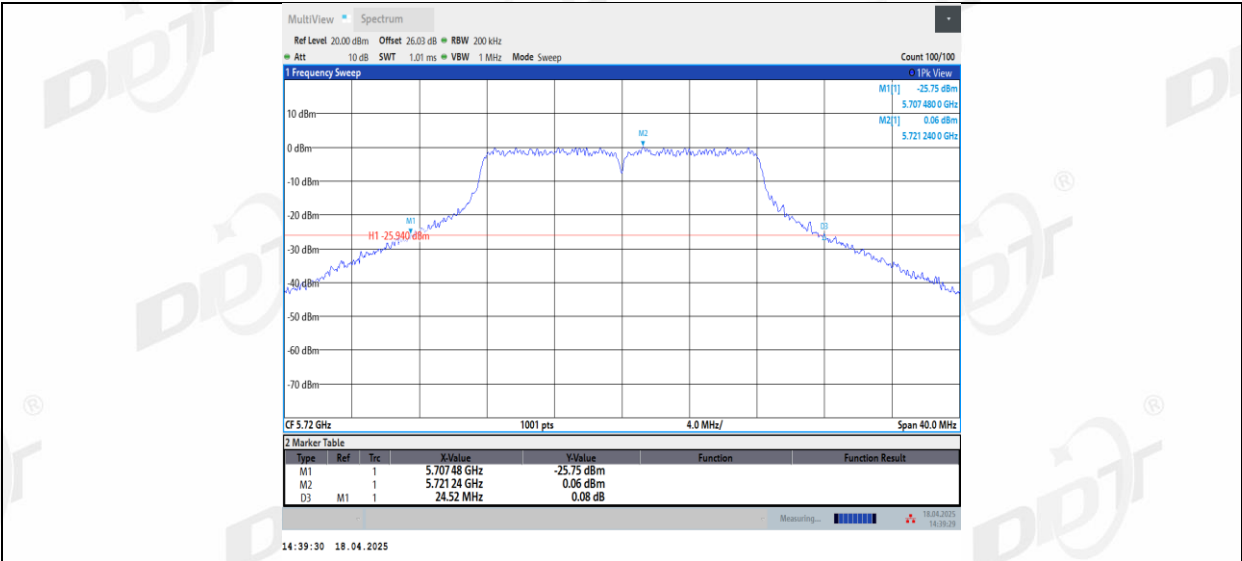
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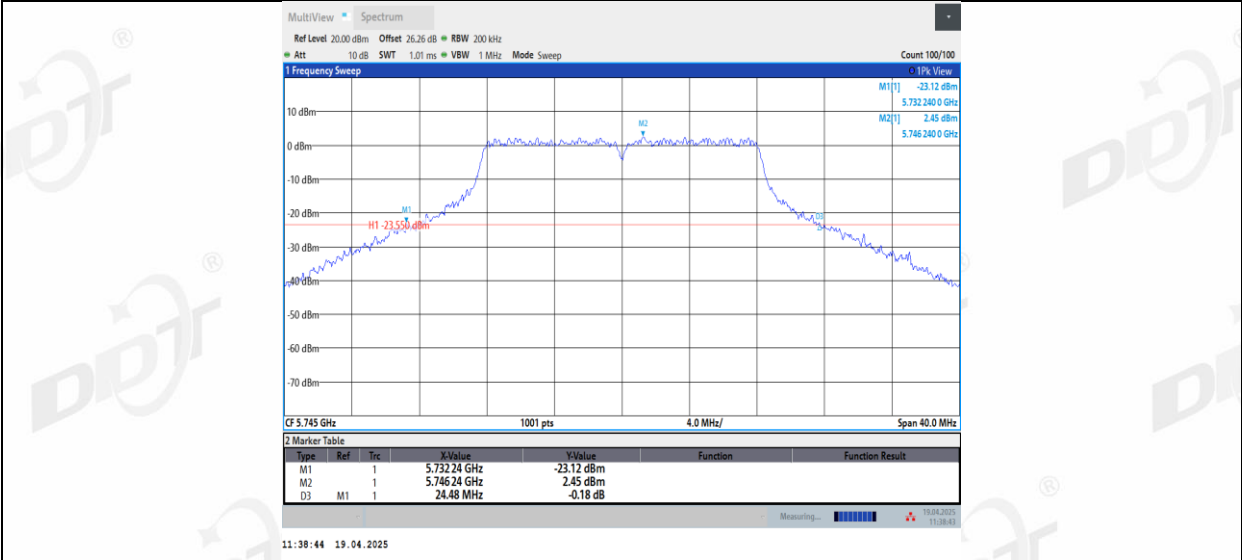
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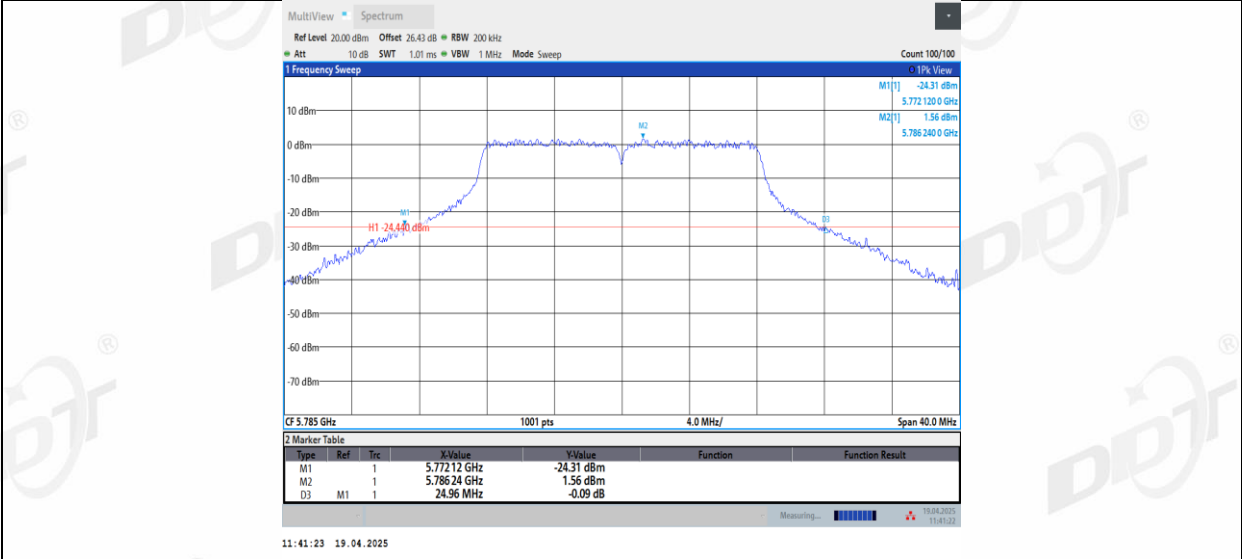
11A_Ant1_5720



11A_Ant1_5745



11A_Ant1_5785

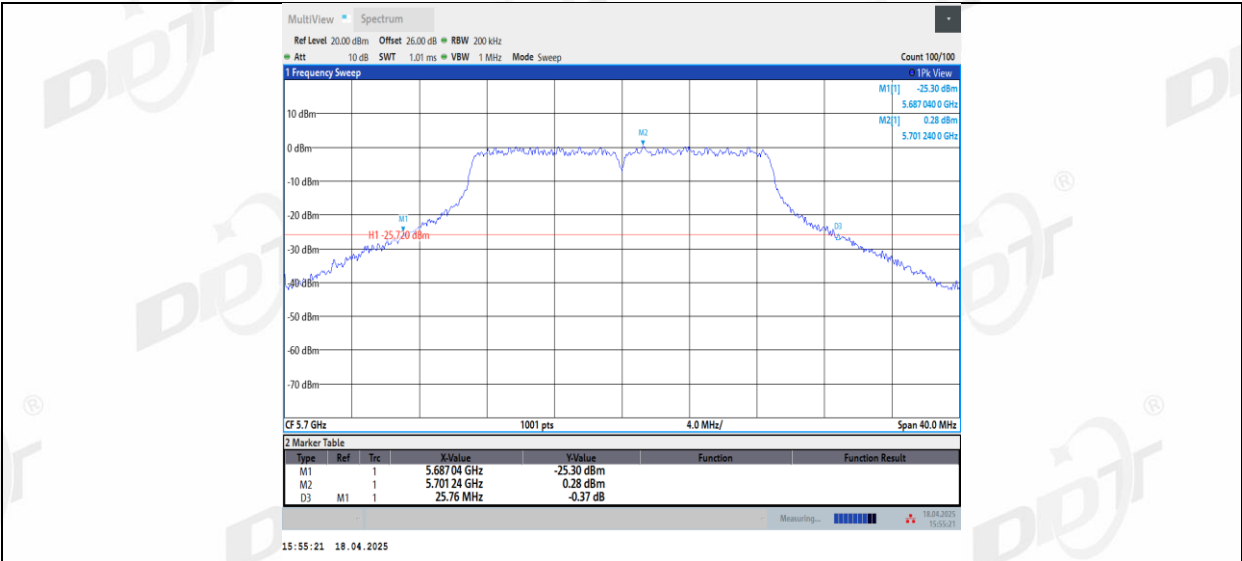


11A_Ant1_5825

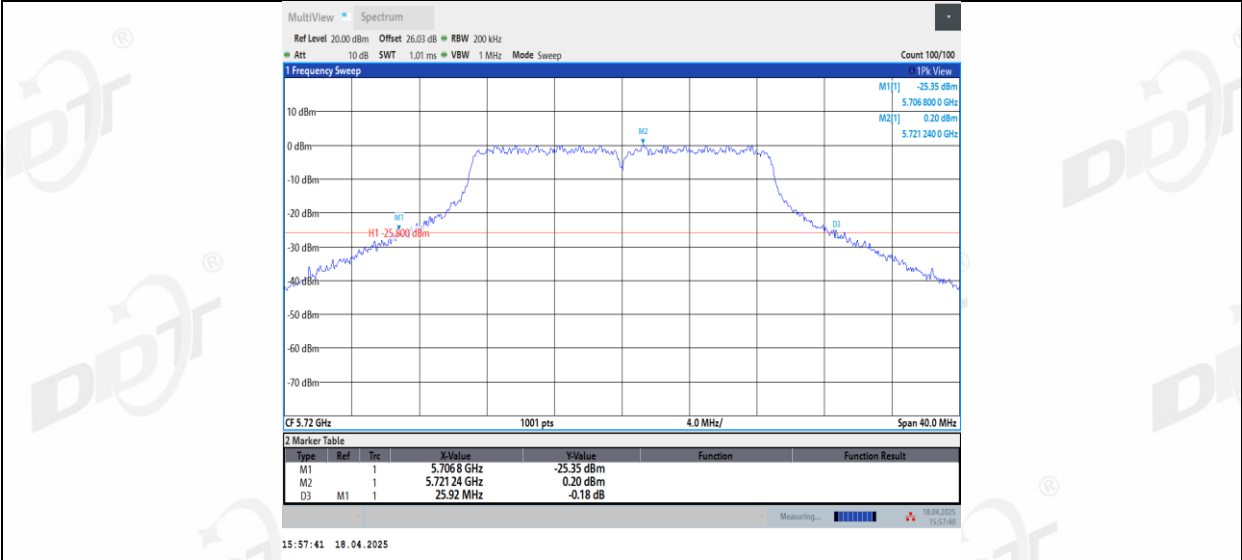




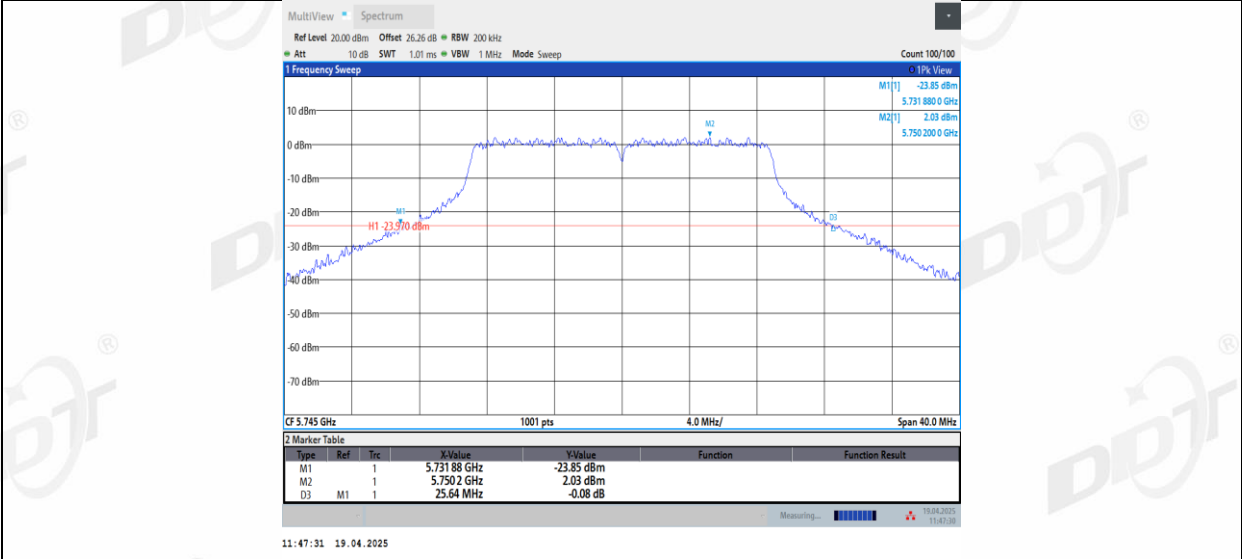




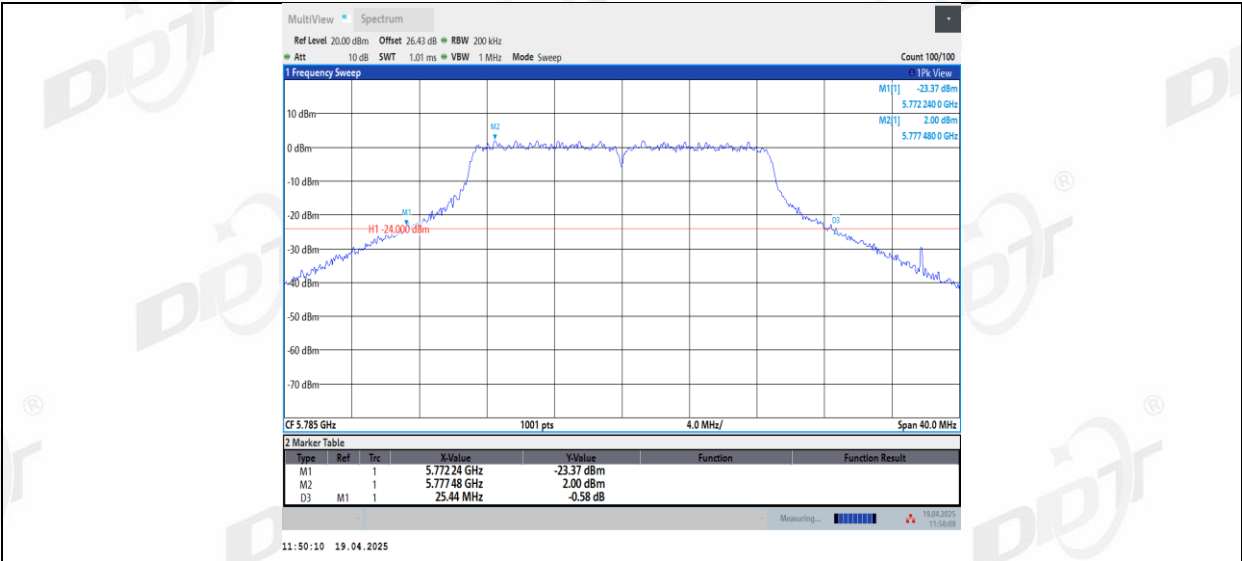
11N20SISO_Ant1_5720



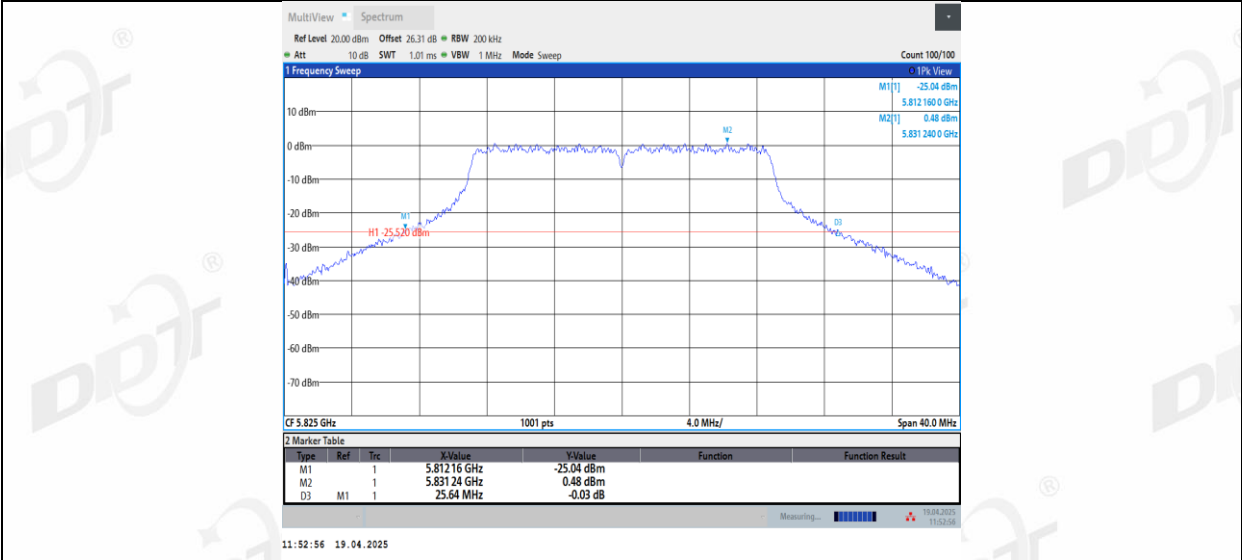
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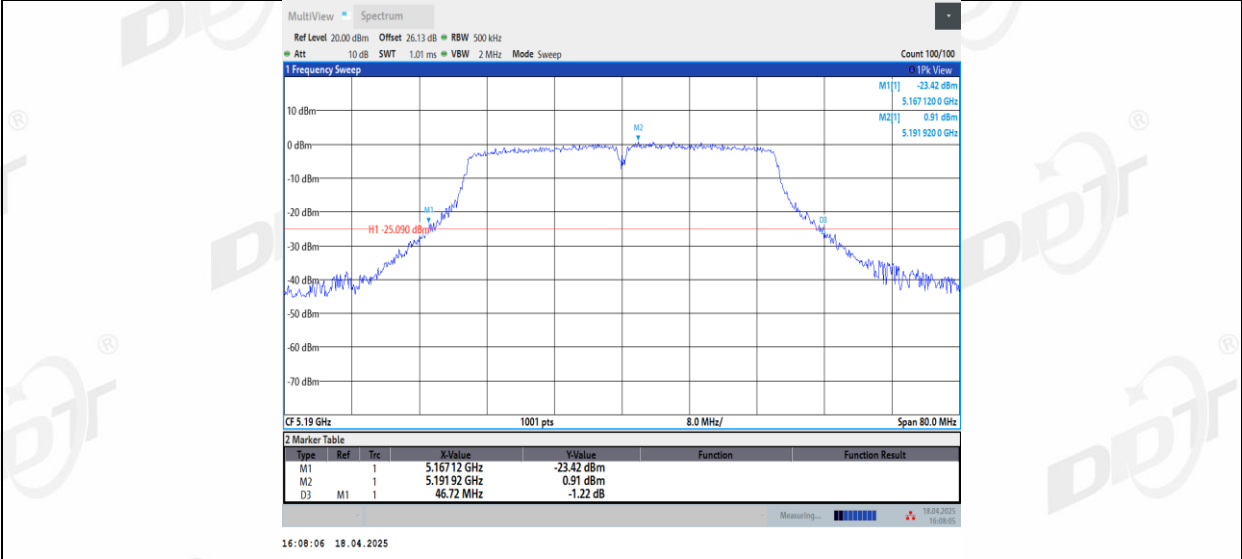
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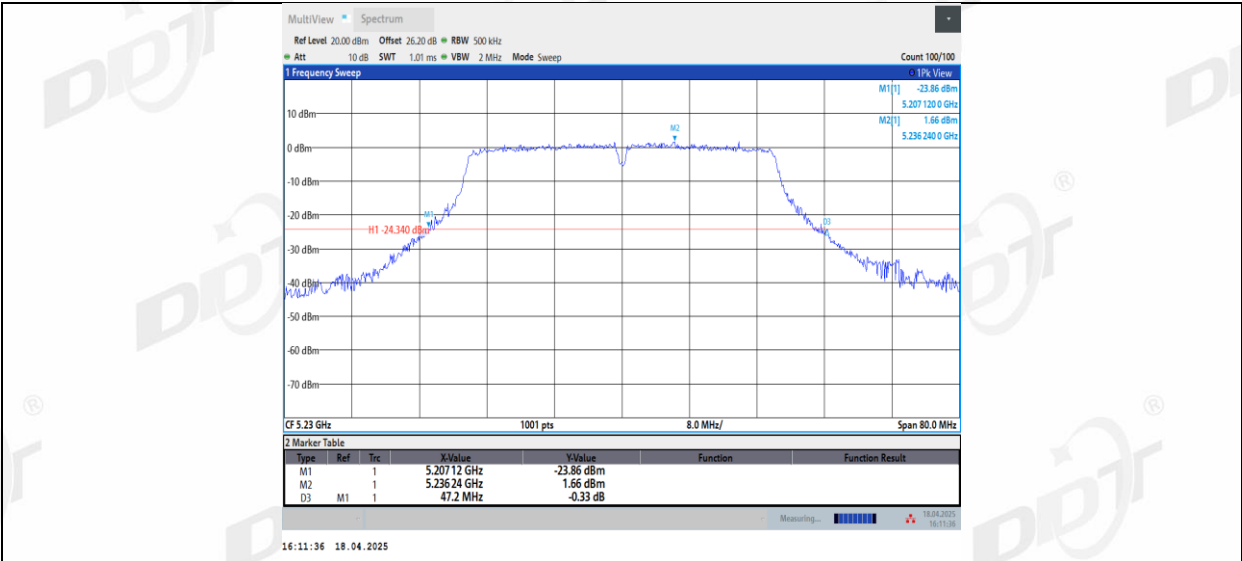
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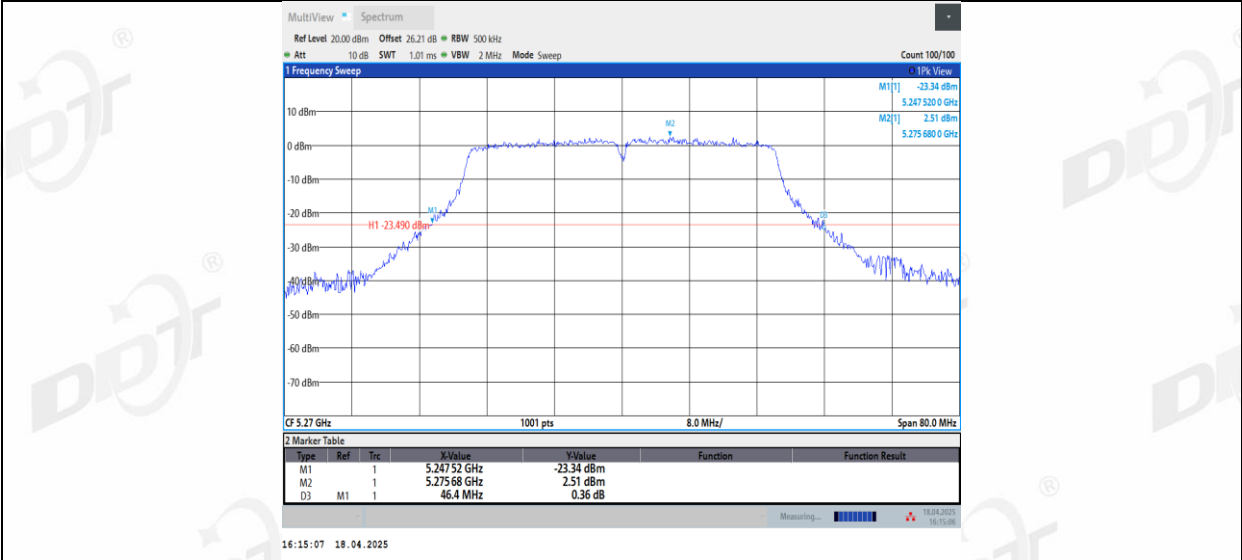
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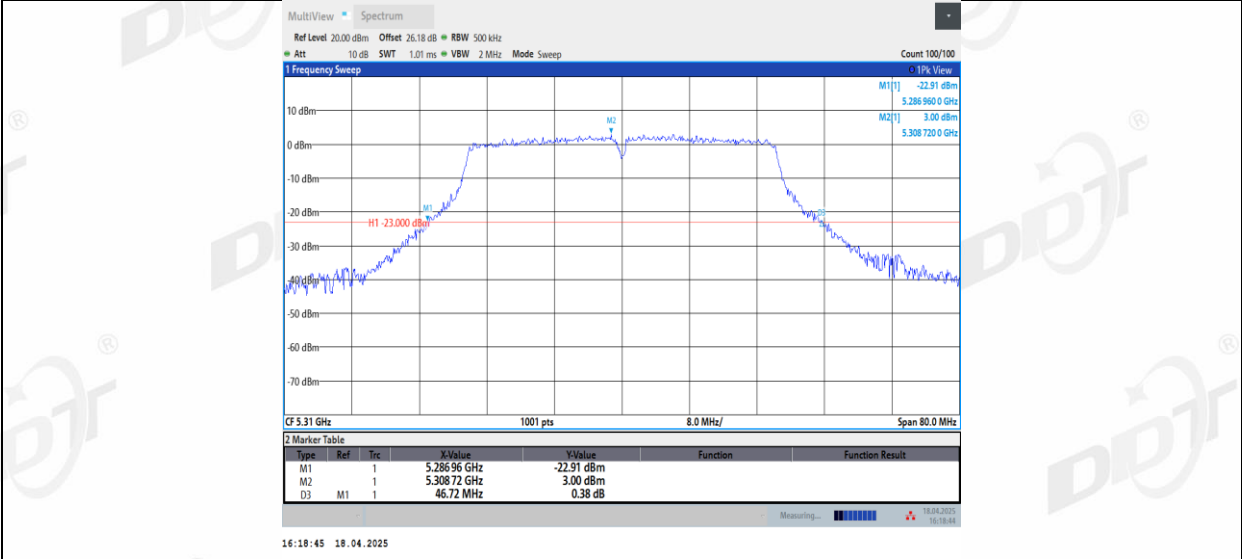
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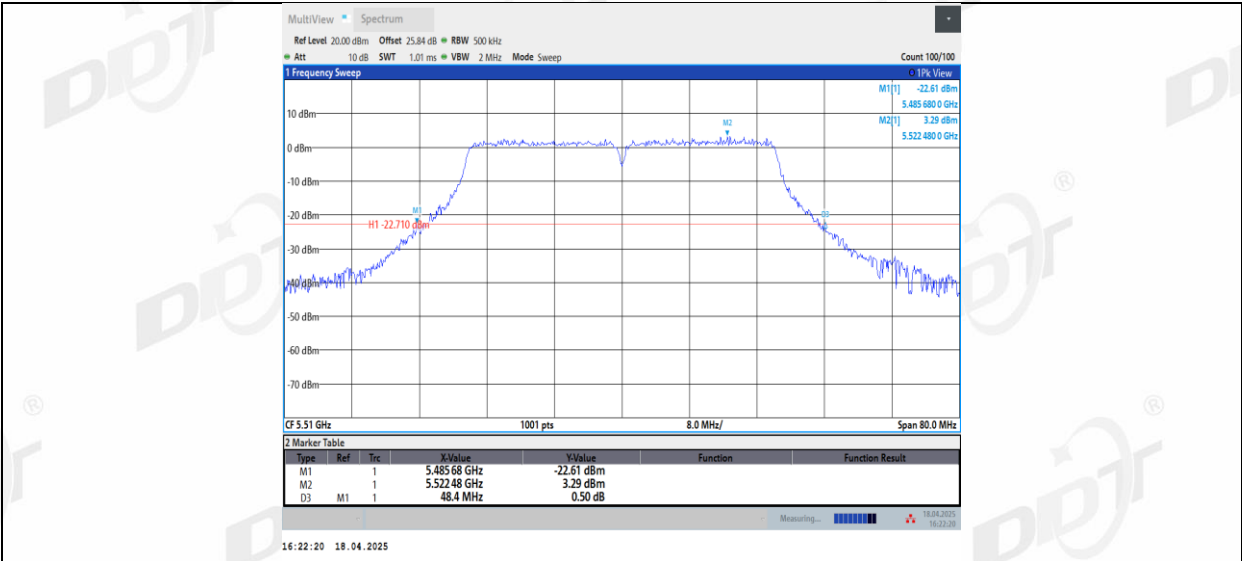
11N40SISO_Ant1_5270



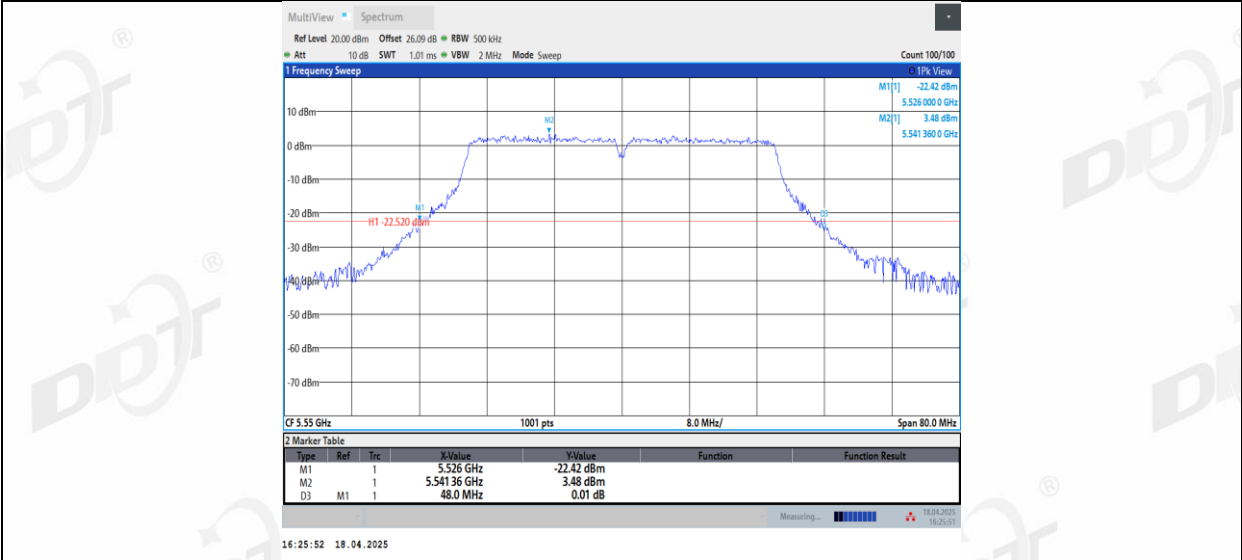
11N40SISO_Ant1_5310



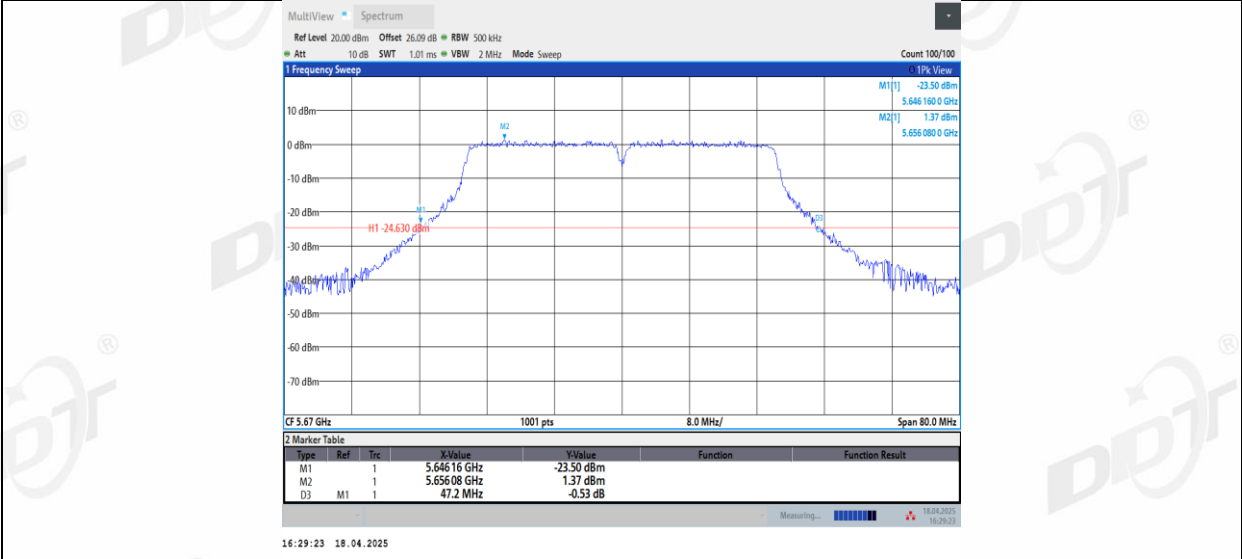
11N40SISO_Ant1_5510



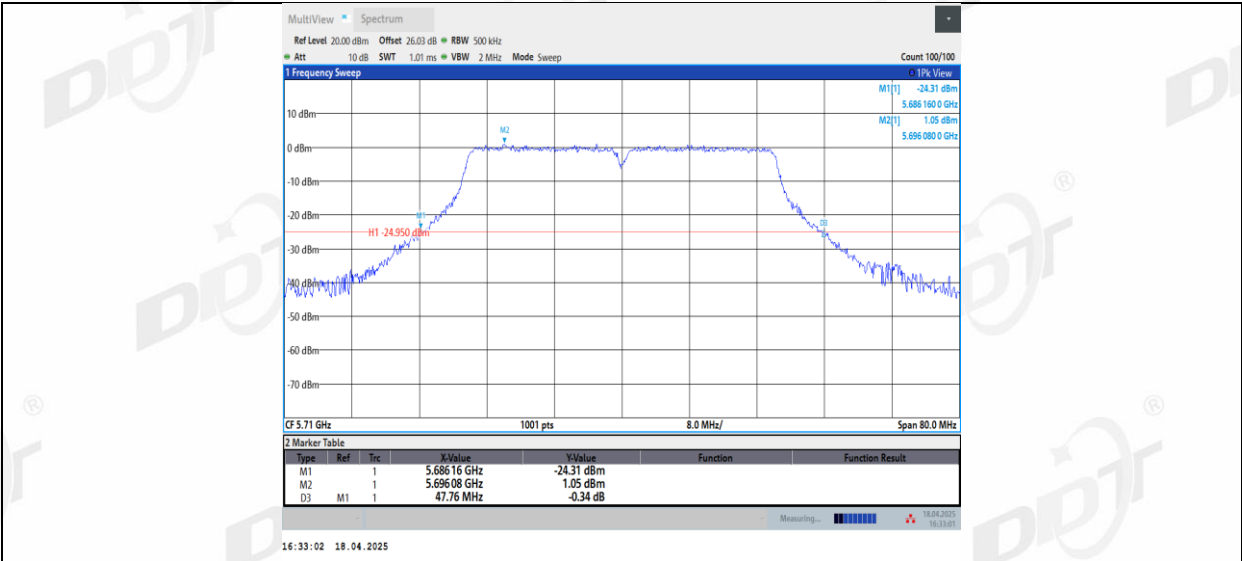
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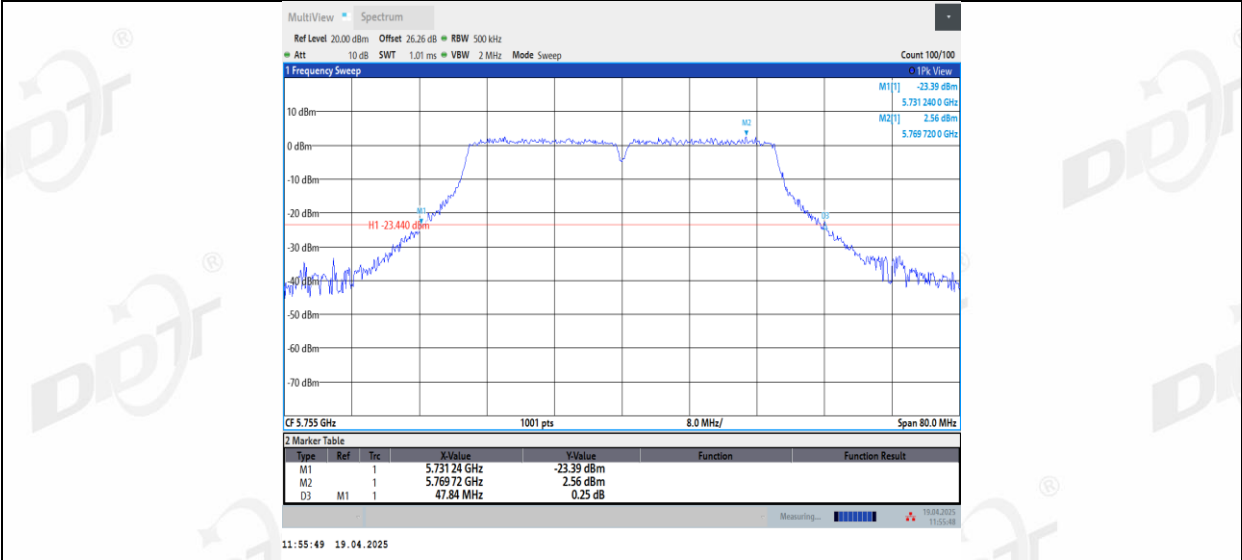
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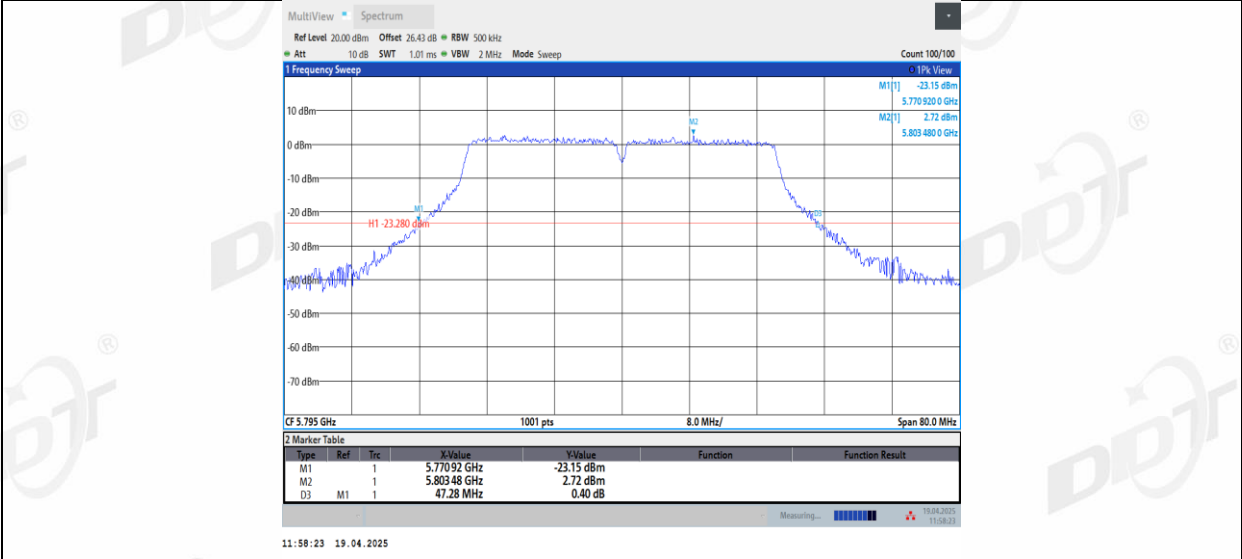
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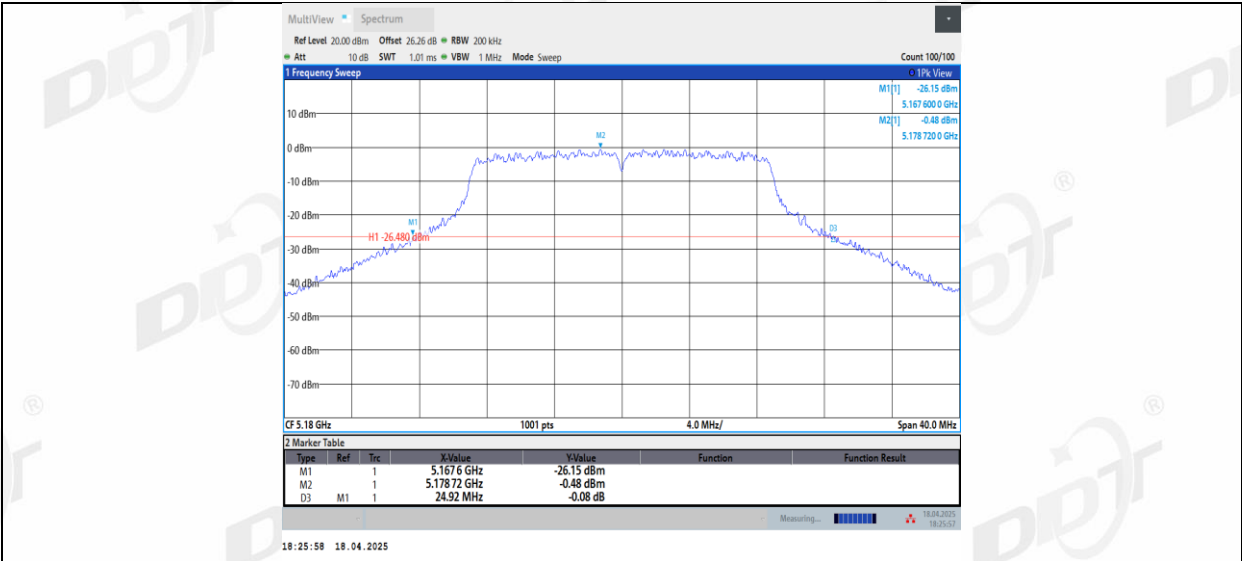
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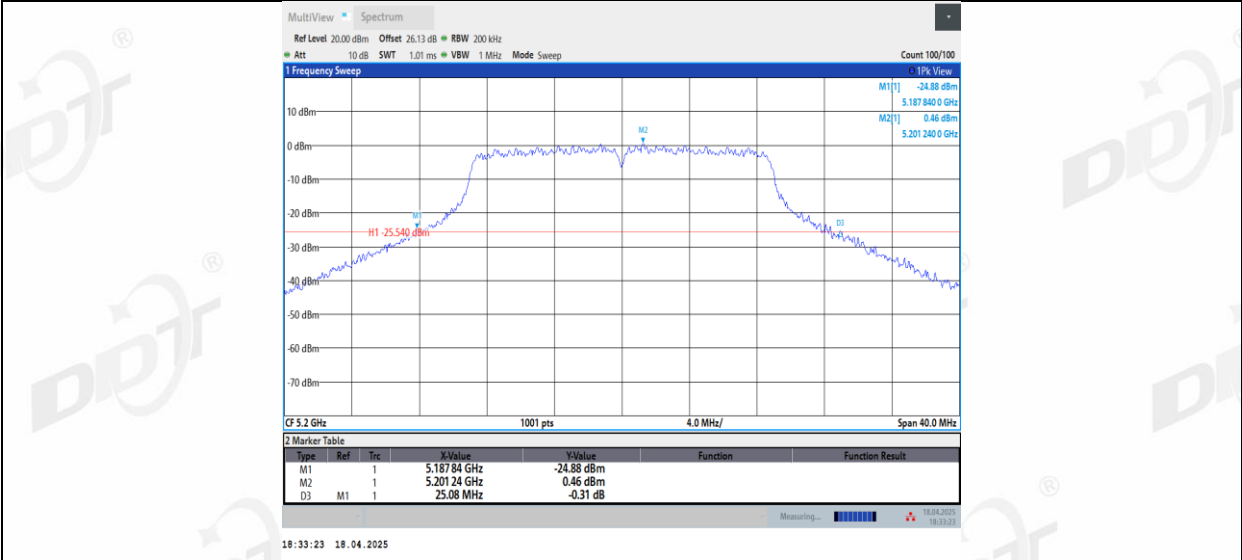
11N40SISO_Ant1_5795



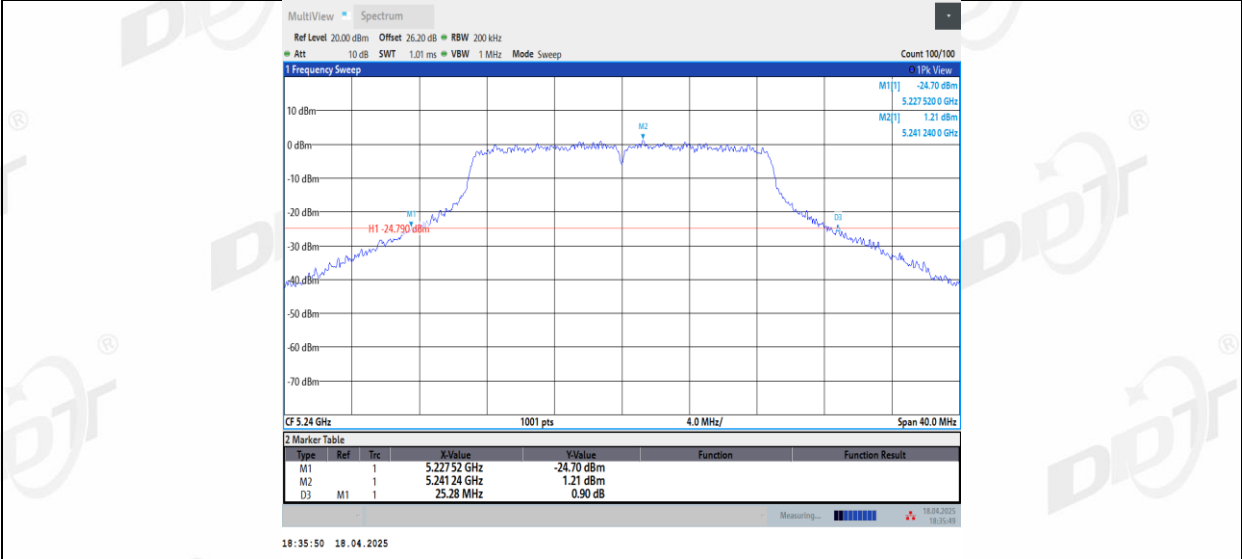
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5260