



FCC CERTIFICATION TEST REPORT

Applicant	:	Shenzhen SDMC Technology Co., Ltd.
Address of Applicant	:	Floor 1, Building 5, Hengtongfa Industrial Zone, Tangtou Industrial Park, Tangtou Community, Shiyan Street, Baoan District, Shenzhen
Manufacturer	:	Shenzhen SDMC Technology Co., Ltd.
Address of Manufacturer	:	Floor 1, Building 5, Hengtongfa Industrial Zone, Tangtou Industrial Park, Tangtou Community, Shiyan Street, Baoan District, Shenzhen
Equipment under Test	:	AC1200 Dual Band Wi-Fi Router
Model No.	:	NM1274CB
FCC ID	:	2AW68-NM1274CB
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-RE24091913-1E02
Issue Date	:	2025/01/16
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 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-RE24091913-1E02		
Date of Receipt:	2024/10/10	Date of Test:	2024/10/10 – 2025/01/16

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	2025/01/16	

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	Antenna Requirement	FCC Part 15: 15.203	/	Pass
8	Power Line Conducted Emissions	FCC Part 15: 15.207(a)	/	Pass
9	Dynamic Frequency Selection	FCC 15.407 (h)	/	Pass

Note1: 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.

Note2: The Dynamic Frequency Selection data is in the DDT-RE24091913-1E03 report.

2. General Test Information

2.1. Description of EUT

EUT Name	: AC1200 Dual Band Wi-Fi Router
Model Number	: NM1274CB
EUT Function Description	: Please reference user manual of this device
Power Supply	: AC 120V/60Hz

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

Radio Technology	: IEEE 802.11a/n/ac
Operation frequency	: IEEE 802.11a: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5720MHz, 5745MHz-5825MHz IEEE 802.11n HT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5720MHz, 5745MHz-5825MHz IEEE 802.11n HT40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5510MHz-5710MHz, 5755MHz-5795MHz IEEE 802.11ac VHT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5720MHz, 5745MHz-5825MHz IEEE 802.11ac VHT40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5510MHz-5710MHz, 5755MHz-5795MHz IEEE 802.11ac VHT80: 5210MHz, 5290MHz, 5530MHz, 5610MHz, 5690MHz, 5775MHz
Modulation	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

Antenna information				
Antenna Type	External antenna			
Max Antenna Gain (dBi)		Ant1 Gain	Ant2 Gain	Directional Gain
	IEEE 802.11a	5.03	5.33	/
	IEEE 802.11n HT20	5.03	5.33	8.19
	IEEE 802.11n HT40	5.03	5.33	8.19
	IEEE 802.11ac VHT20	5.03	5.33	8.19
	IEEE 802.11ac VHT40	5.03	5.33	8.19
	IEEE 802.11ac VHT80	5.03	5.33	8.19
Note: This EUT MIMO 2X2, any transmit signals are correlated with each other. So the Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10})^2/2] = 8.19\text{dBi}$				

Channel information					
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
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
112	5560	126	5630	/	/
116	5580	134	5670	/	/
120	5600	142	5710	/	/
124	5620	/	/	/	/
128	5640	/	/	/	/
132	5660	/	/	/	/
136	5680	/	/	/	/
140	5700	/	/	/	/
144	5720				
UNII-3					
149	5745	151	5755	155	5775
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/

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

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.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
Internet cable	/	/	Length: 1.50m, Unshielded
Adapter	Gansu Pingling Comkey Technology Co., Ltd.	KKD-004	Input: 100-240Vac 50/60Hz Output: 12V =1.0A 12.0W

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_Dbg.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, channel, and data rate information					
Mode	Setting Tx Power		Data rate (Mbps) (see Note)	Channel	Frequency (MHz)
	ANT1	ANT2			
IEEE 802.11a	1E	18	6	Low: CH36	5180
	1E	18	6	Middle: CH40	5200
	1E	18	6	High: CH48	5240
	19	12	6	Low: CH52	5260
	19	12	6	Middle: CH56	5280
	19	12	6	High: CH64	5320
	1E	16	6	Low: CH100	5500
	1E	16	6	Middle: CH116	5580
	1C	0A	6	High: CH140	5700
	14	14	6	Straddle:CH144	5720
	0A	0A	6	Low: CH149	5745
	0A	0A	6	Middle: CH157	5785
	0A	0A	6	High: CH165	5825
IEEE 802.11n HT20	1A	1A	MCS 8	Low: CH36	5180
	1A	1A	MCS 8	Middle: CH40	5200
	1A	1A	MCS 8	High: CH48	5240
	16	16	MCS 8	Low: CH52	5260
	16	16	MCS 8	Middle: CH56	5280
	16	16	MCS 8	High: CH64	5320

	19	19	MCS 8	Low: CH100	5500
	19	19	MCS 8	Middle: CH116	5580
	0D	0D	MCS 8	High: CH140	5700
	10	10	MCS 8	Straddle:CH144	5720
	0A	0A	MCS 8	Low: CH149	5745
	0A	0A	MCS 8	Middle: CH157	5785
	0A	0A	MCS 8	High: CH165	5825
IEEE 802.11n HT40	1E	1E	MCS 8	Low: CH38	5190
	1E	1E	MCS 8	Middle: CH46	5230
	19	19	MCS 8	High: CH54	5270
	19	19	MCS 8	Low: CH62	5310
	1D	1D	MCS 8	Middle: CH102	5510
	1D	1D	MCS 8	High: CH110	5550
	10	10	MCS 8	Low: CH134	5670
	10	10	MCS 8	Middle: CH151	5755
	0A	0A	MCS 8	High: CH159	5795
IEEE 802.11ac VHT20	19	19	MCS 0	Low: CH36	5180
	19	19	MCS 0	Middle: CH40	5200
	19	19	MCS 0	High: CH48	5240
	16	16	MCS 0	Low: CH52	5260
	16	16	MCS 0	Middle: CH56	5280
	16	16	MCS 0	High: CH64	5320
	18	18	MCS 0	Low: CH100	5500
	18	18	MCS 0	Middle: CH116	5580
	0E	0E	MCS 0	High: CH140	5700
	10	10	MCS 0	Straddle:CH144	5720
	0A	0A	MCS 0	Low: CH149	5745
	0A	0A	MCS 0	Middle: CH157	5785
	0A	0A	MCS 0	High: CH165	5825
IEEE 802.11 ac VHT40	19	19	MCS 0	Low: CH38	5190
	19	19	MCS 0	Middle: CH46	5230
	19	19	MCS 0	High: CH54	5270
	19	19	MCS 0	Low: CH62	5310
	1D	1D	MCS 0	Middle: CH102	5510
	1D	1D	MCS 0	High: CH110	5550
	1E	1E	MCS 0	Low: CH134	5670
	10	10	MCS 0	Straddle: CH142	5710
	0A	0A	MCS 0	Middle: CH151	5755
	0A	0A	MCS 0	High: CH159	5795
	13	13	MCS 0	CH42	5210

IEEE 802.11ac VHT80	13	13	MCS 0	CH58	5290
	17	17	MCS 0	CH106	5530
	15	15	MCS 0	CH122	5610
	10	10	MCS 0	CH138	5690
	0A	0A	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-20155, G-20118

2.8. Measurement uncertainty

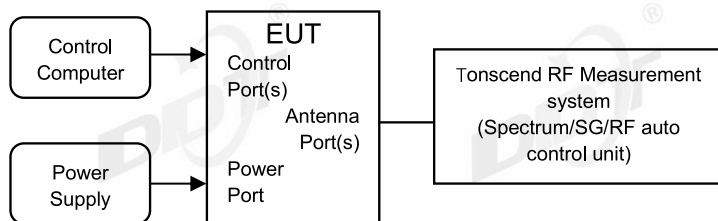
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 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 1#)				
SIGNAL ANALYZER	R&S	FSQ26	101272	2025/03/31
Wideband Radio Communication Tester	R&S	CMW500	120259	2025/07/08
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY59100192	2025/03/31
MXG Vector Signal Generator	Agilent	N5182A	MY19060405	2025/03/31
RF Control Unit	Tonsend	JS0806-2	158060010	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. 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
	---	5470 - 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

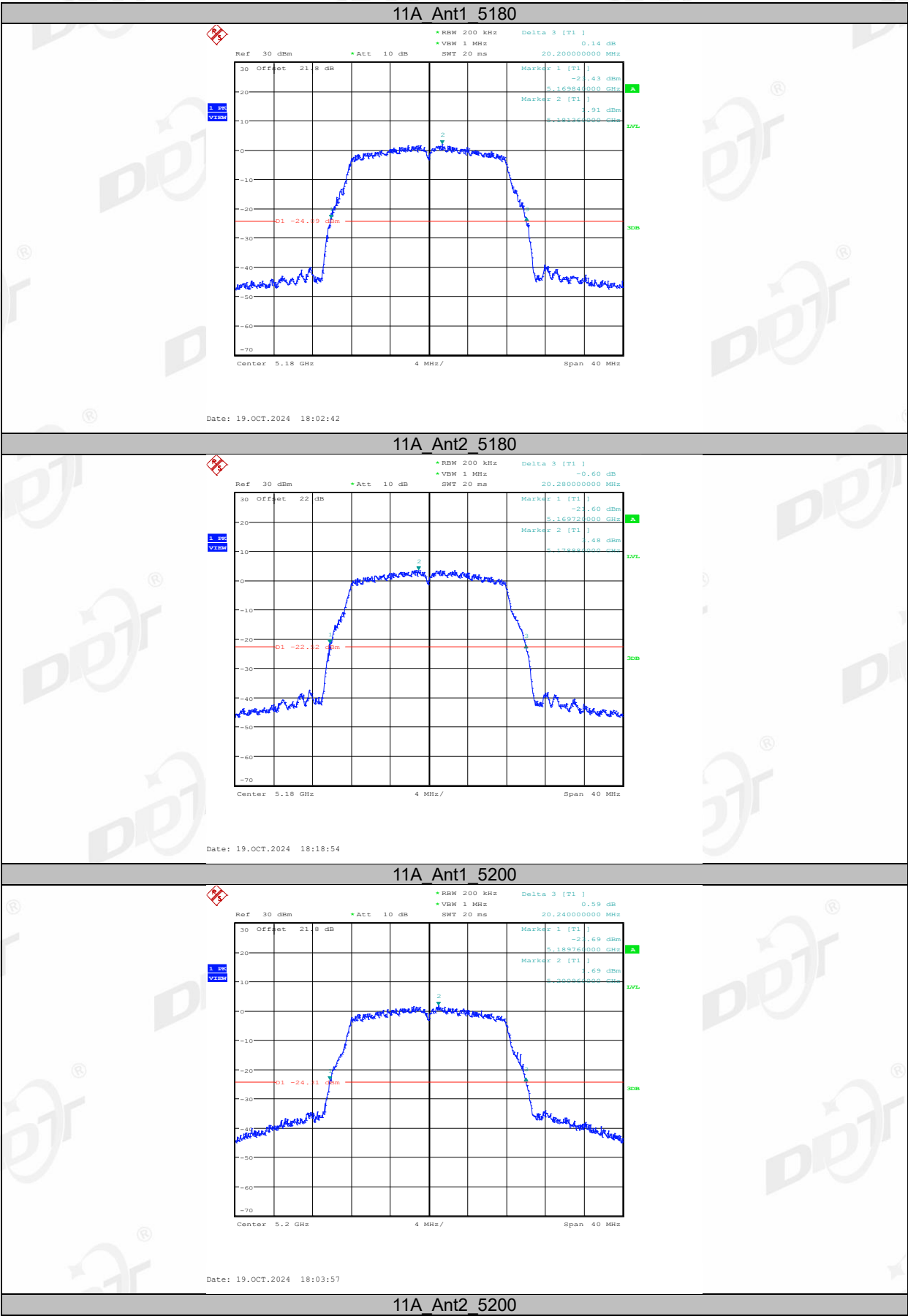
Test Engineer:	Haofeng	Test Site:	RF Measurement System 1#
Ambient Condition:	24.6℃,46.8%RH	Test Date:	2024.10.19/2024.12.11~2024.12.13
Test Power Supply:	AC120V/60Hz	Sample Number:	S24091913-002

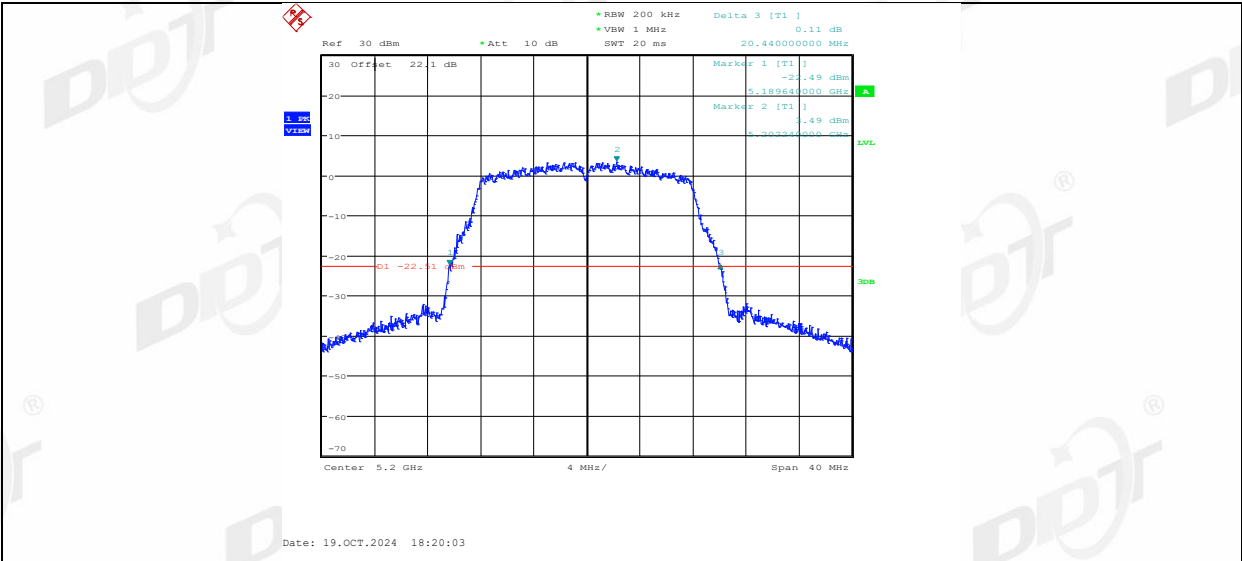
Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.20	5169.84	5190.04	---	---
	Ant2	5180	20.28	5169.72	5190.00	---	---
	Ant1	5200	20.24	5189.76	5210.00	---	---
	Ant2	5200	20.44	5189.64	5210.08	---	---
	Ant1	5240	20.32	5229.72	5250.04	---	---
	Ant2	5240	20.24	5229.80	5250.04	---	---
	Ant1	5260	20.20	5249.84	5270.04	---	---
	Ant2	5260	20.16	5249.84	5270.00	---	---
	Ant1	5280	20.36	5269.72	5290.08	---	---
	Ant2	5280	20.16	5269.88	5290.04	---	---
	Ant1	5320	20.08	5309.84	5329.92	---	---
	Ant2	5320	20.24	5309.80	5330.04	---	---
	Ant1	5500	20.08	5489.92	5510.00	---	---
	Ant2	5500	20.20	5489.84	5510.04	---	---
	Ant1	5580	20.32	5569.84	5590.16	---	---
	Ant2	5580	20.32	5569.80	5590.12	---	---
	Ant1	5700	20.16	5689.84	5710.00	---	---
	Ant2	5700	20.20	5689.72	5709.92	---	---
	Ant1	5720	20.36	5709.68	5730.04	---	---
	Ant2	5720	20.28	5709.72	5730.00	---	---
	Ant1	5720 UNII-2C	15.32	5709.68	5725	---	---
	Ant2	5720 UNII-2C	15.28	5709.72	5725	---	---
	Ant1	5720 UNII-3	5.04	5725	5730.04	---	---
	Ant2	5720 UNII-3	5	5725	5730.00	---	---
	Ant1	5745	20.36	5734.68	5755.04	---	---
	Ant2	5745	20.08	5734.84	5754.92	---	---
	Ant1	5785	20.20	5774.72	5794.92	---	---
	Ant2	5785	20.36	5774.64	5795.00	---	---
	Ant1	5825	20.40	5814.68	5835.08	---	---
	Ant2	5825	20.24	5814.72	5834.96	---	---
11N20MI MO	Ant1	5180	20.44	5169.68	5190.12	---	---
	Ant2	5180	20.36	5169.72	5190.08	---	---
	Ant1	5200	20.40	5189.68	5210.08	---	---
	Ant2	5200	20.44	5189.76	5210.20	---	---
	Ant1	5240	20.36	5229.72	5250.08	---	---
	Ant2	5240	20.40	5229.72	5250.12	---	---
	Ant1	5260	20.52	5249.64	5270.16	---	---
	Ant2	5260	20.36	5249.72	5270.08	---	---
	Ant1	5280	20.56	5269.60	5290.16	---	---
	Ant2	5280	20.52	5269.64	5290.16	---	---
	Ant1	5320	20.52	5309.68	5330.20	---	---
	Ant2	5320	20.44	5309.68	5330.12	---	---
	Ant1	5500	20.44	5489.68	5510.12	---	---
	Ant2	5500	20.40	5489.68	5510.08	---	---
	Ant1	5580	20.40	5569.72	5590.12	---	---
	Ant2	5580	20.48	5569.64	5590.12	---	---
	Ant1	5700	20.52	5689.60	5710.12	---	---
	Ant2	5700	20.48	5689.68	5710.16	---	---
	Ant1	5720	20.60	5709.52	5730.12	---	---
	Ant2	5720	20.36	5709.72	5730.08	---	---
	Ant1	5720 UNII-2C	15.48	5709.52	5725	---	---
	Ant2	5720 UNII-2C	15.28	5709.72	5725	---	---
	Ant1	5720 UNII-3	5.12	5725	5730.12	---	---
	Ant2	5720 UNII-3	5.08	5725	5730.08	---	---
	Ant1	5745	20.44	5734.68	5755.12	---	---

	Ant2	5745	20.24	5734.80	5755.04	---	---
	Ant1	5785	20.56	5774.60	5795.16	---	---
	Ant2	5785	20.40	5774.72	5795.12	---	---
	Ant1	5825	20.56	5814.56	5835.12	---	---
	Ant2	5825	20.48	5814.68	5835.16	---	---
11N40MI MO	Ant1	5190	41.28	5169.28	5210.56	---	---
	Ant2	5190	40.48	5169.68	5210.16	---	---
	Ant1	5230	40.96	5209.44	5250.40	---	---
	Ant2	5230	40.88	5209.44	5250.32	---	---
	Ant1	5270	41.44	5249.12	5290.56	---	---
	Ant2	5270	40.64	5249.60	5290.24	---	---
	Ant1	5310	41.12	5289.36	5330.48	---	---
	Ant2	5310	40.88	5289.44	5330.32	---	---
	Ant1	5510	41.36	5489.36	5530.72	---	---
	Ant2	5510	40.64	5489.60	5530.24	---	---
	Ant1	5550	41.04	5529.52	5570.56	---	---
	Ant2	5550	40.88	5529.52	5570.40	---	---
	Ant1	5670	41.12	5649.36	5690.48	---	---
	Ant2	5670	40.48	5649.68	5690.16	---	---
	Ant1	5710	40.96	5689.36	5730.32	---	---
	Ant2	5710	40.72	5689.52	5730.24	---	---
	Ant1	5710 UNII-2C	35.64	5689.36	5725	---	---
	Ant2	5710 UNII-2C	35.48	5689.52	5725	---	---
	Ant1	5710 UNII-3	5.32	5725	5730.32	---	---
	Ant2	5710 UNII-3	5.24	5725	5730.24	---	---
	Ant1	5755	41.20	5734.44	5775.64	---	---
	Ant2	5755	40.88	5734.60	5775.48	---	---
	Ant1	5795	41.12	5774.28	5815.40	---	---
	Ant2	5795	40.72	5774.60	5815.32	---	---
11AC20M IMO	Ant1	5180	20.48	5169.76	5190.24	---	---
	Ant2	5180	20.44	5169.72	5190.16	---	---
	Ant1	5200	20.44	5189.72	5210.16	---	---
	Ant2	5200	20.48	5189.68	5210.16	---	---
	Ant1	5240	20.52	5229.64	5250.16	---	---
	Ant2	5240	20.44	5229.64	5250.08	---	---
	Ant1	5260	20.52	5249.64	5270.16	---	---
	Ant2	5260	20.40	5249.76	5270.16	---	---
	Ant1	5280	20.44	5269.72	5290.16	---	---
	Ant2	5280	20.40	5269.72	5290.12	---	---
	Ant1	5320	20.64	5309.60	5330.24	---	---
	Ant2	5320	20.36	5309.76	5330.12	---	---
	Ant1	5500	20.48	5489.64	5510.12	---	---
	Ant2	5500	20.32	5489.76	5510.08	---	---
	Ant1	5580	20.40	5569.72	5590.12	---	---
	Ant2	5580	20.36	5569.72	5590.08	---	---
	Ant1	5700	20.48	5689.60	5710.08	---	---
	Ant2	5700	20.40	5689.64	5710.04	---	---
	Ant1	5720	20.52	5709.60	5730.12	---	---
	Ant2	5720	20.40	5709.64	5730.04	---	---
	Ant1	5720 UNII-2C	15.4	5709.60	5725	---	---
	Ant2	5720 UNII-2C	15.36	5709.64	5725	---	---
	Ant1	5720 UNII-3	5.12	5725	5730.12	---	---
	Ant2	5720 UNII-3	5.04	5725	5730.04	---	---
	Ant1	5745	20.52	5734.64	5755.16	---	---
	Ant2	5745	20.36	5734.68	5755.04	---	---
	Ant1	5785	20.48	5774.68	5795.16	---	---
	Ant2	5785	20.32	5774.72	5795.04	---	---
	Ant1	5825	20.36	5814.72	5835.08	---	---
	Ant2	5825	20.48	5814.72	5835.20	---	---
11AC40M IMO	Ant1	5190	41.12	5169.36	5210.48	---	---
	Ant2	5190	40.64	5169.68	5210.32	---	---
	Ant1	5230	40.96	5209.36	5250.32	---	---
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	Ant1	5270	41.44	5249.20	5290.64	---	---

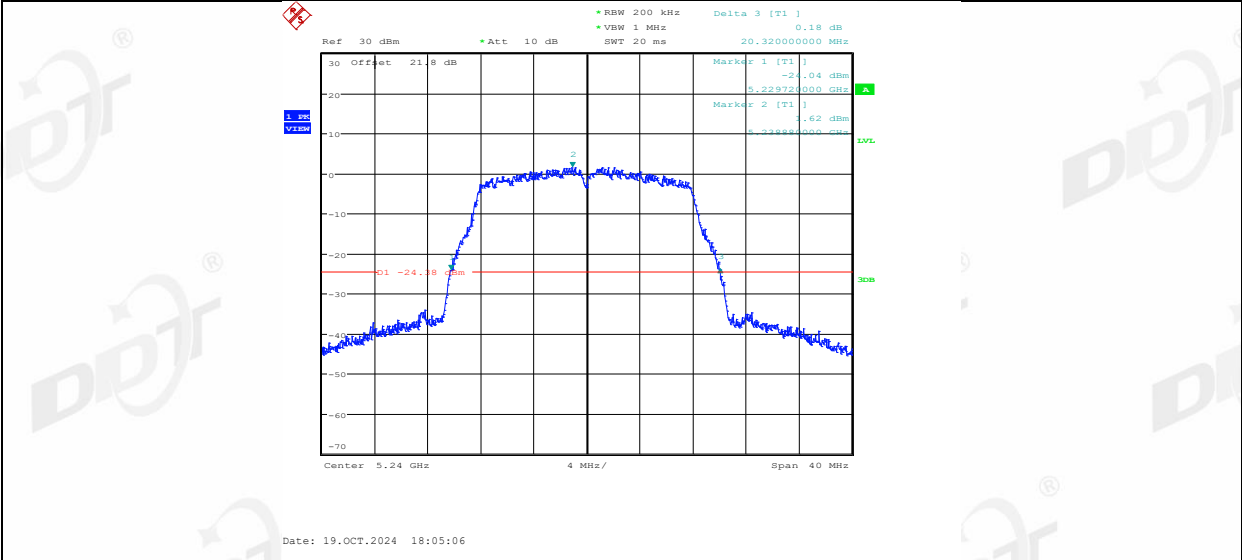
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	Ant1	5510	41.52	5489.28	5530.80	---	---
	Ant2	5510	40.64	5489.60	5530.24	---	---
	Ant1	5550	41.20	5529.36	5570.56	---	---
	Ant2	5550	40.64	5529.76	5570.40	---	---
	Ant1	5670	41.12	5649.28	5690.40	---	---
	Ant2	5670	40.64	5649.52	5690.16	---	---
	Ant1	5710	41.12	5689.28	5730.40	---	---
	Ant2	5710	40.80	5689.44	5730.24	---	---
	Ant1	5710 UNII-2C	35.72	5689.28	5725	---	---
	Ant2	5710 UNII-2C	35.56	5689.44	5725	---	---
	Ant1	5710 UNII-3	5.4	5725	5730.40	---	---
	Ant2	5710 UNII-3	5.24	5725	5730.24	---	---
	Ant1	5755	41.28	5734.28	5775.56	---	---
	Ant2	5755	40.56	5734.52	5775.08	---	---
	Ant1	5795	41.04	5774.36	5815.40	---	---
	Ant2	5795	40.56	5774.68	5815.24	---	---
11AC80M IMO	Ant1	5210	81.44	5169.20	5250.64	---	---
	Ant2	5210	81.12	5169.36	5250.48	---	---
	Ant1	5290	81.28	5249.20	5330.48	---	---
	Ant2	5290	80.96	5249.36	5330.32	---	---
	Ant1	5530	81.60	5489.20	5570.80	---	---
	Ant2	5530	80.96	5489.52	5570.48	---	---
	Ant1	5610	81.60	5569.20	5650.80	---	---
	Ant2	5610	81.12	5569.36	5650.48	---	---
	Ant1	5690	81.76	5649.04	5730.80	---	---
	Ant2	5690	81.12	5649.36	5730.48	---	---
	Ant1	5690 UNII-2C	75.96	5649.04	5725	---	---
	Ant2	5690 UNII-2C	75.64	5649.36	5725	---	---
	Ant1	5690 UNII-3	5.8	5725	5730.80	---	---
	Ant2	5690 UNII-3	5.48	5725	5730.48	---	---
	Ant1	5775	81.28	5734.20	5815.48	---	---
	Ant2	5775	81.12	5734.36	5815.48	---	---

4.5. Test graphs

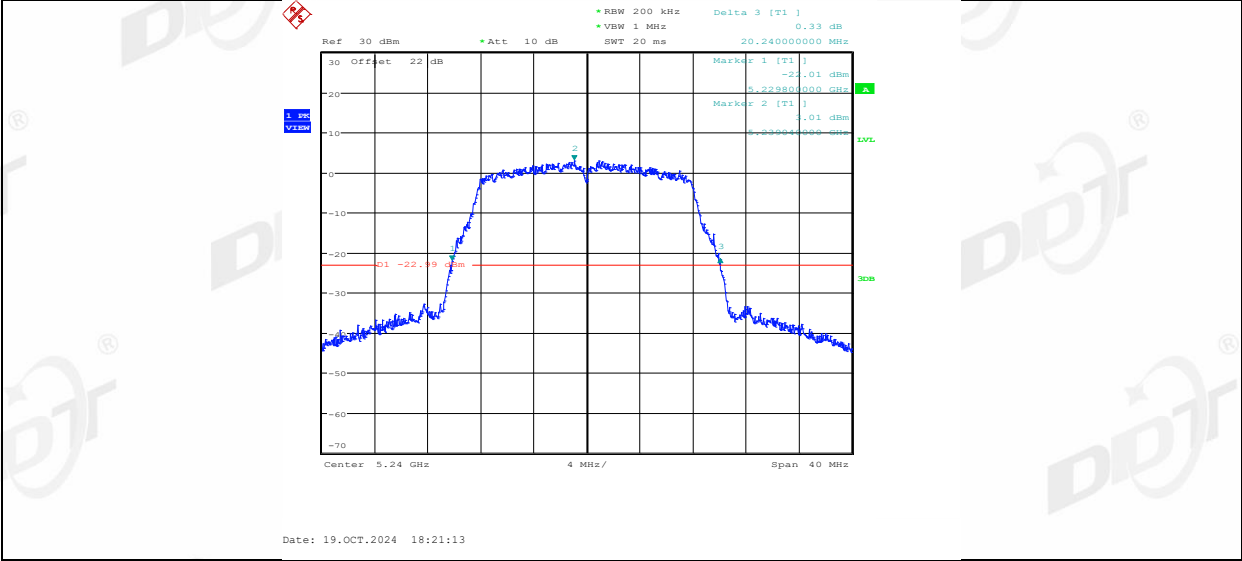




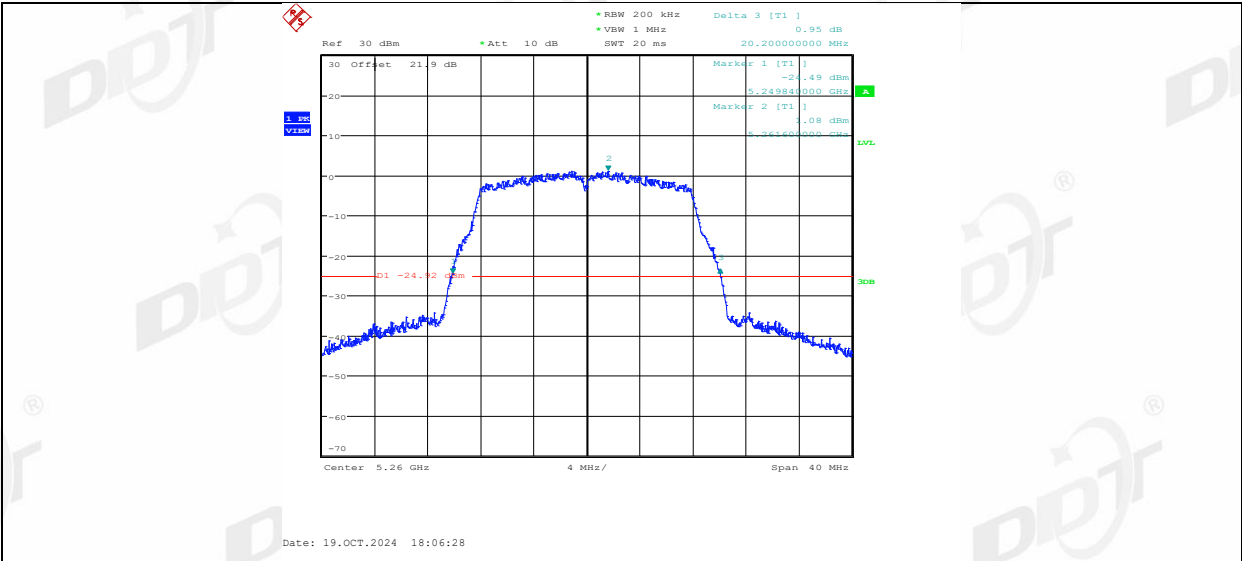
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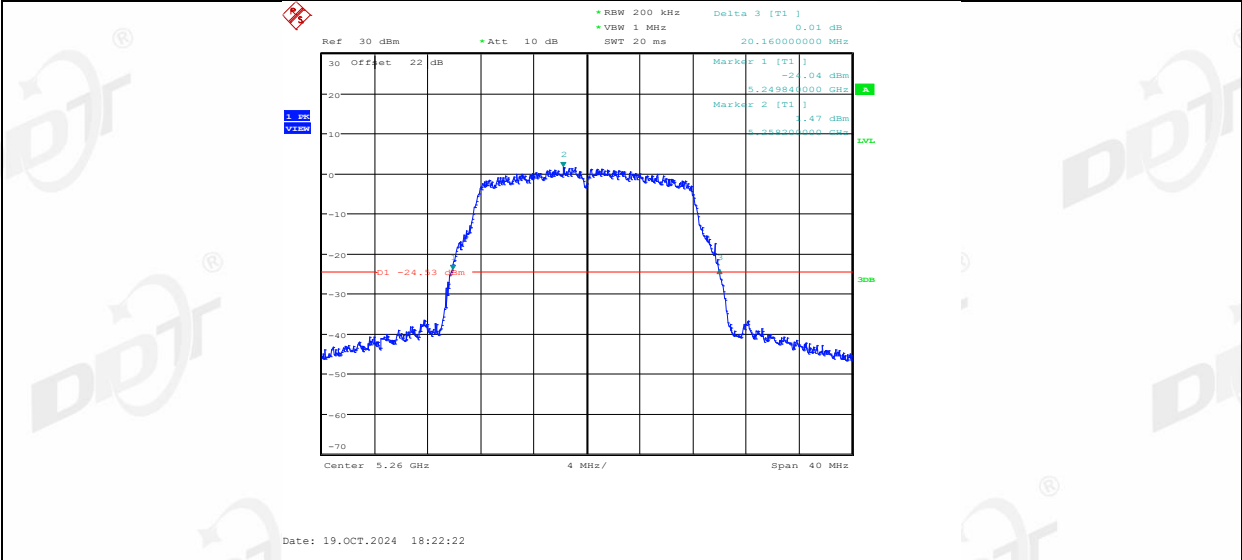
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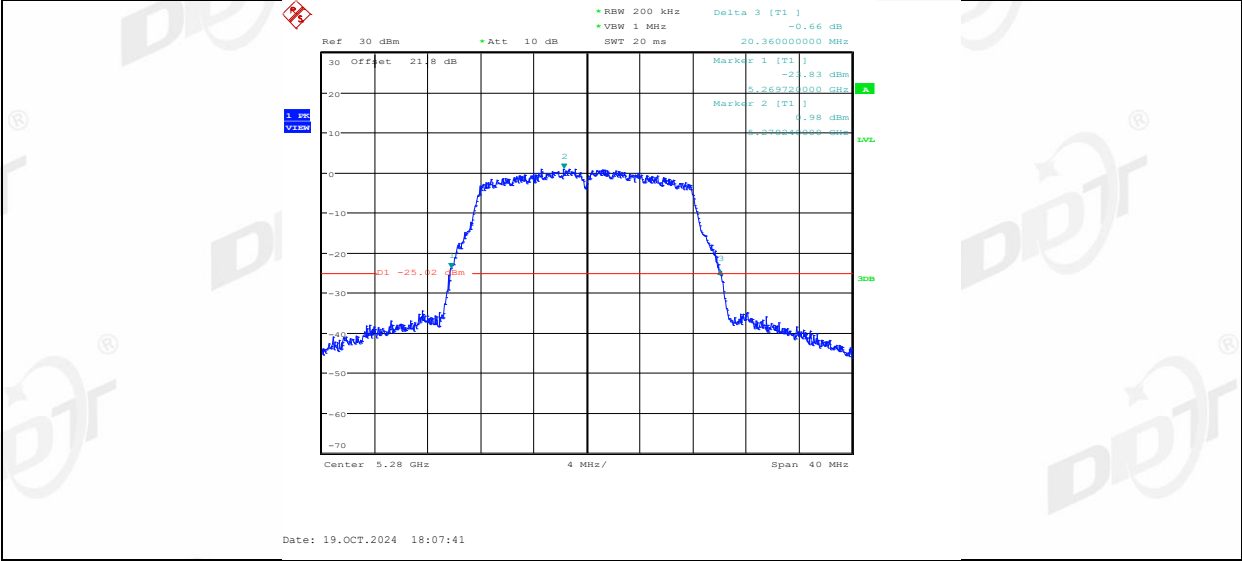
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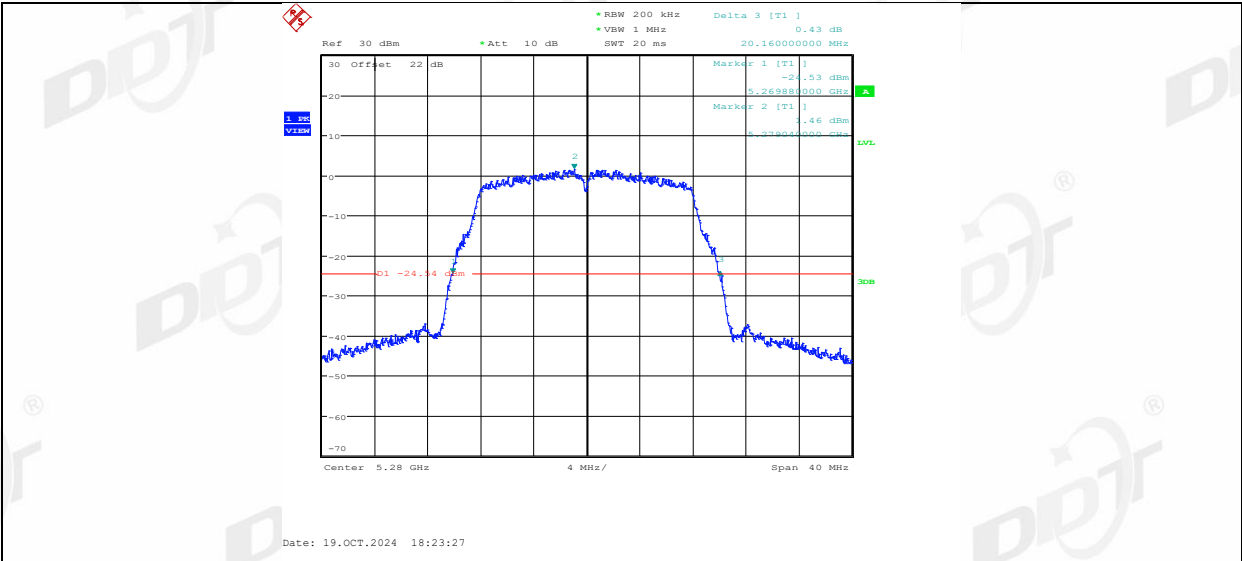
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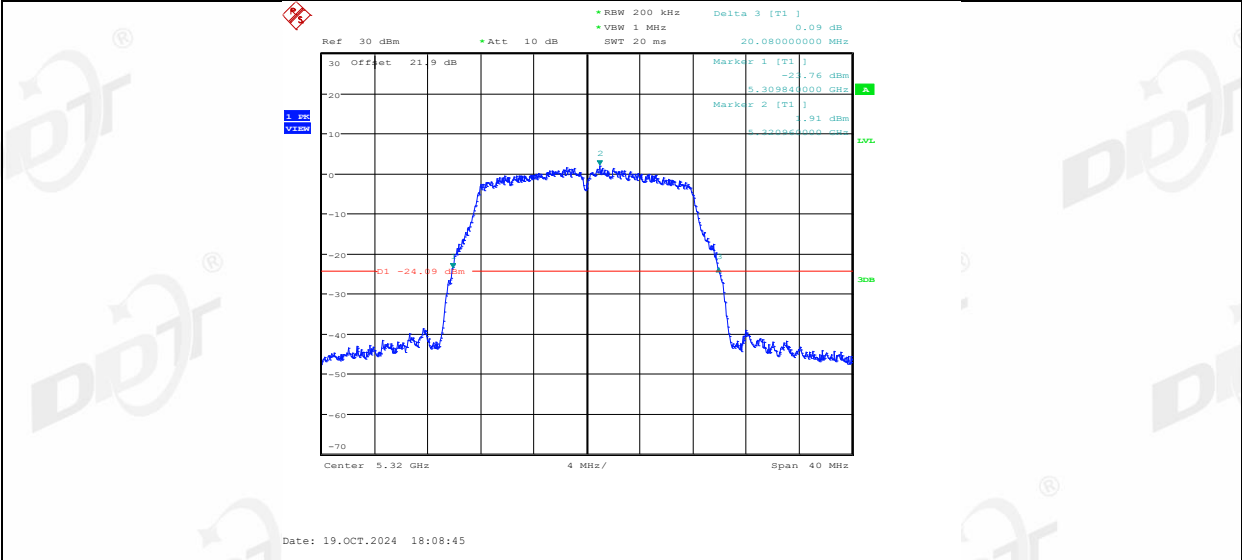
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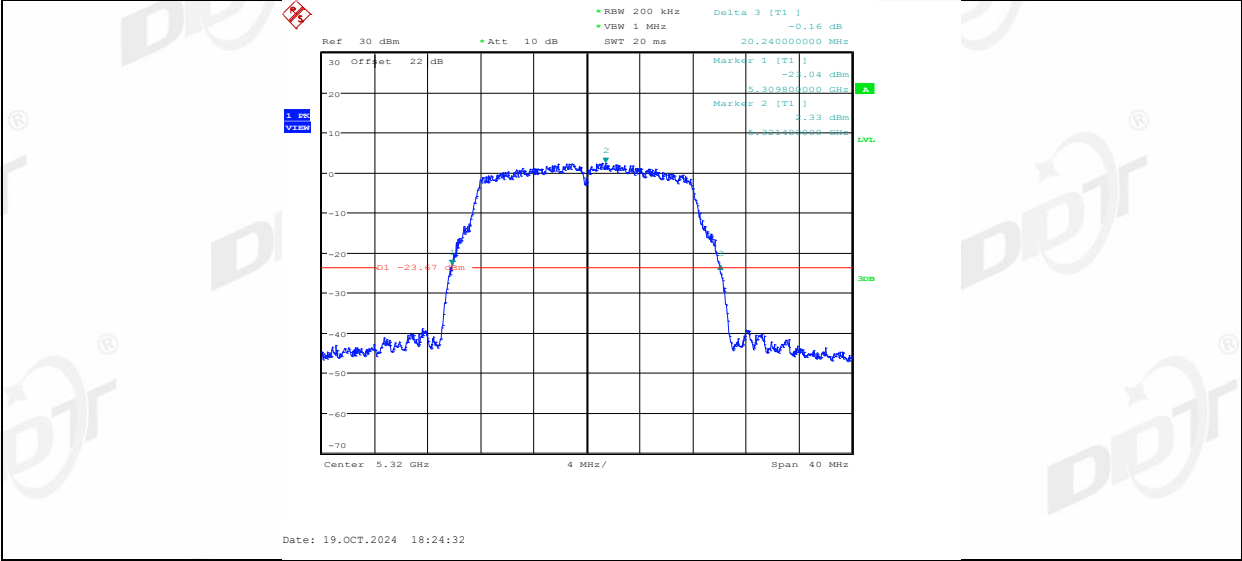
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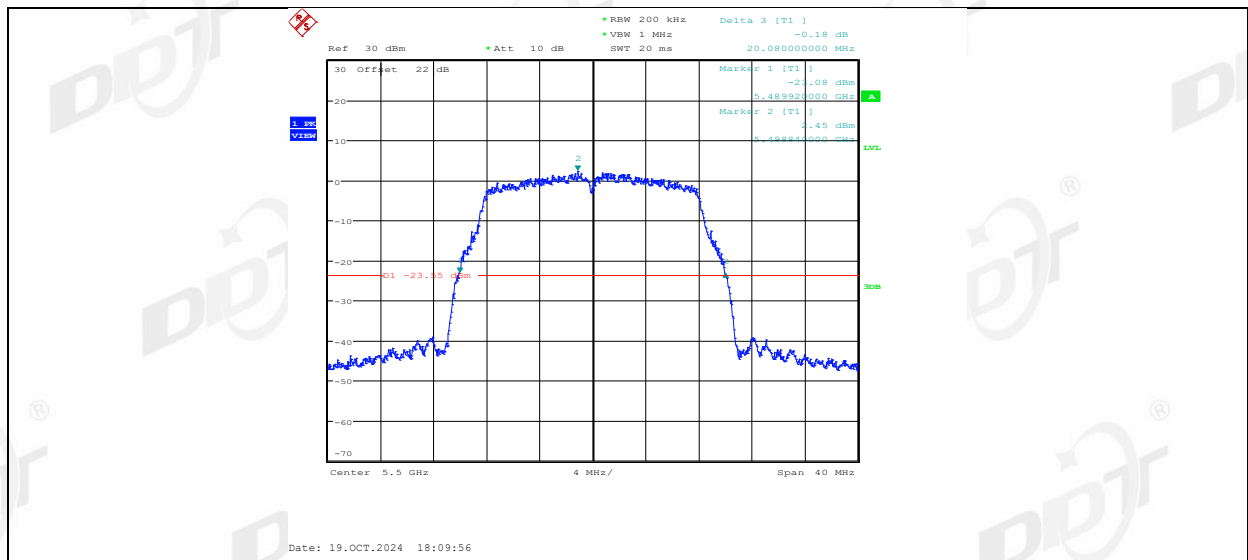
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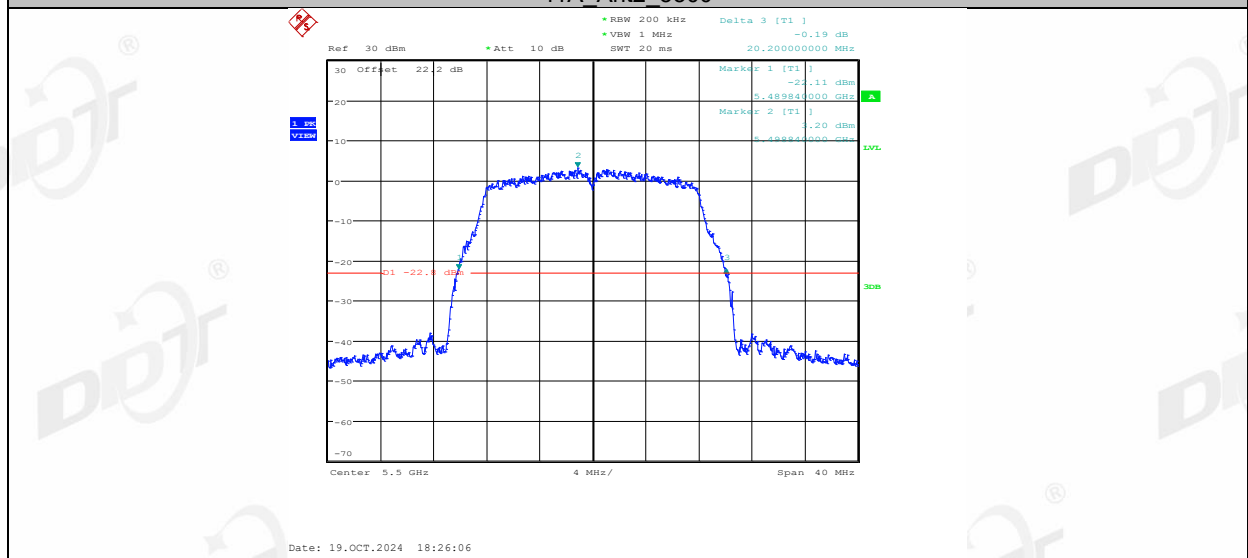
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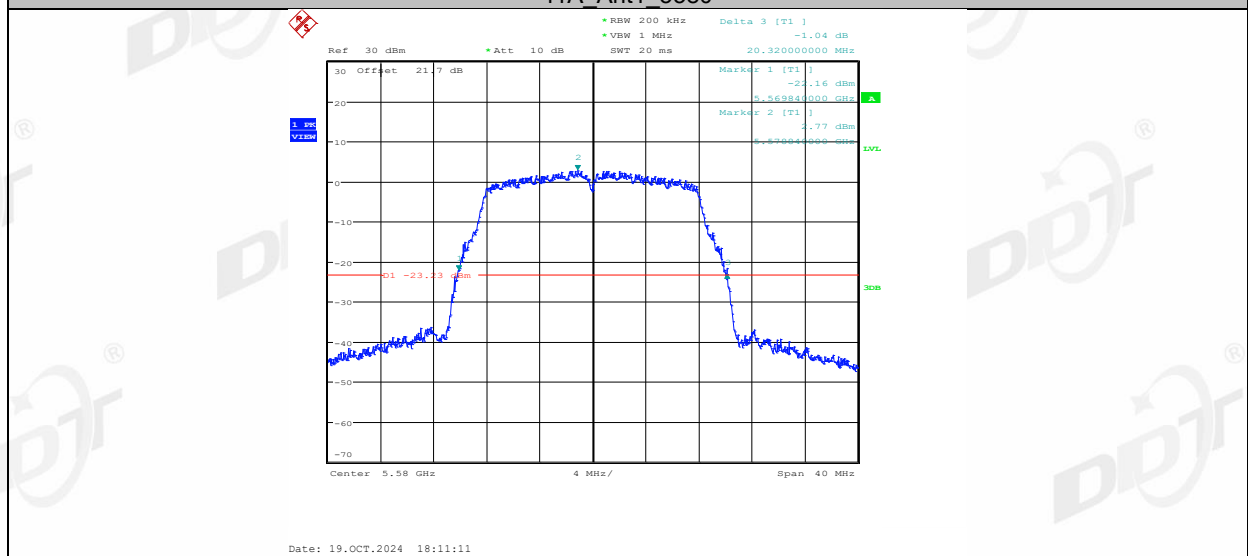
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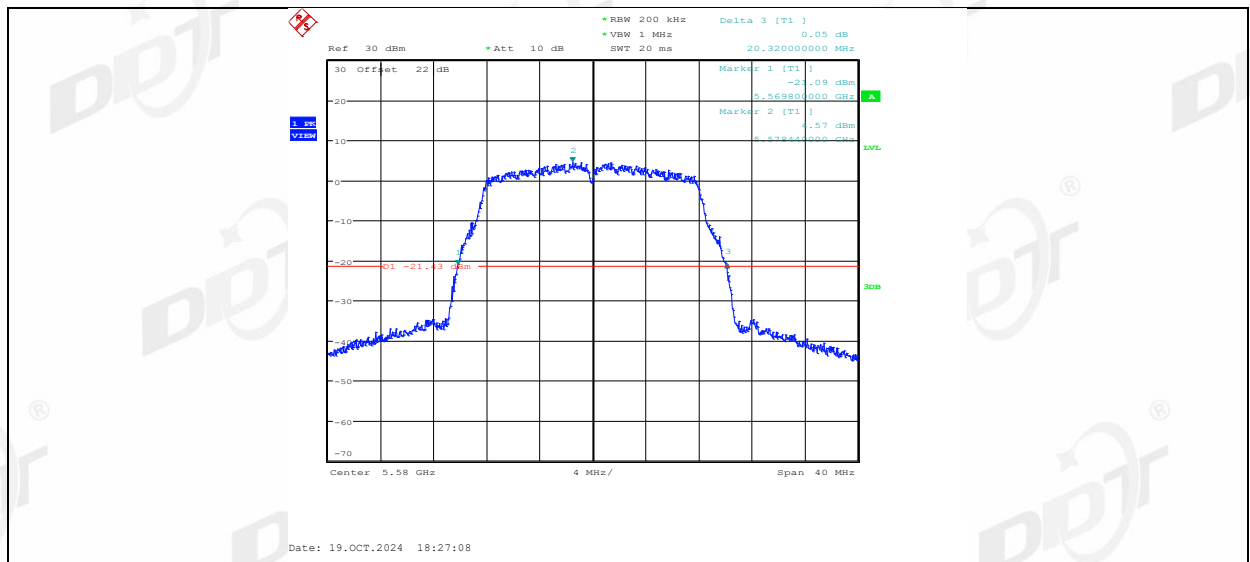
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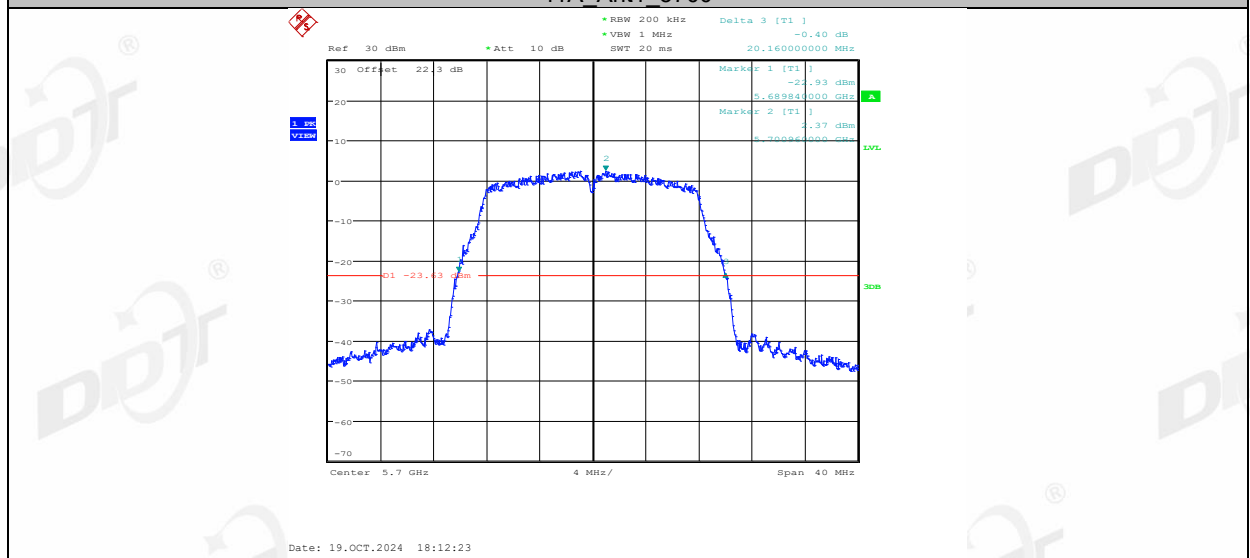
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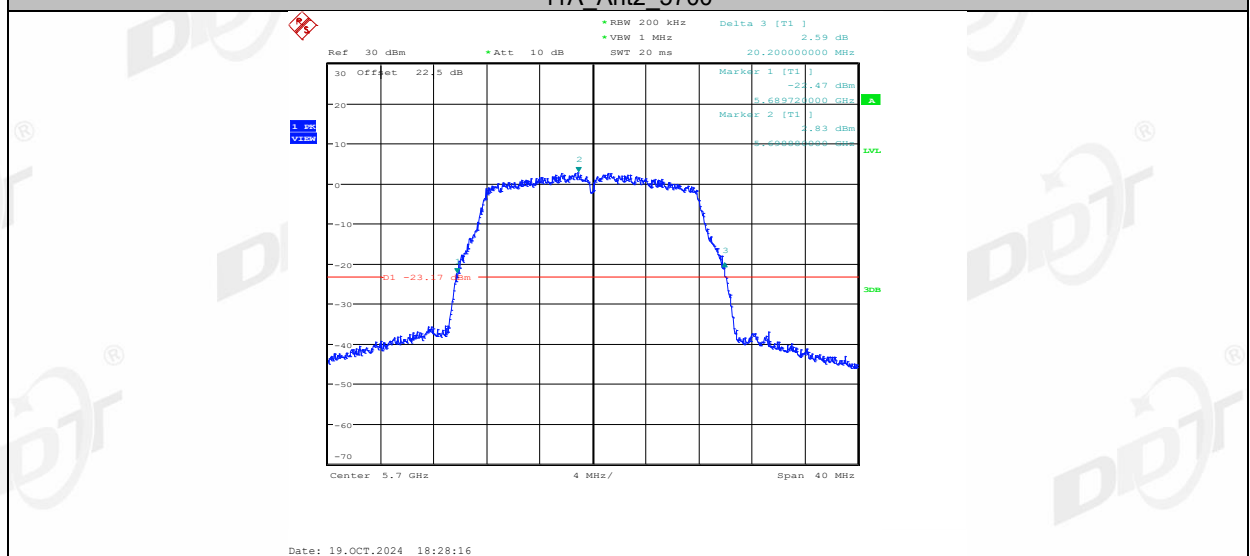
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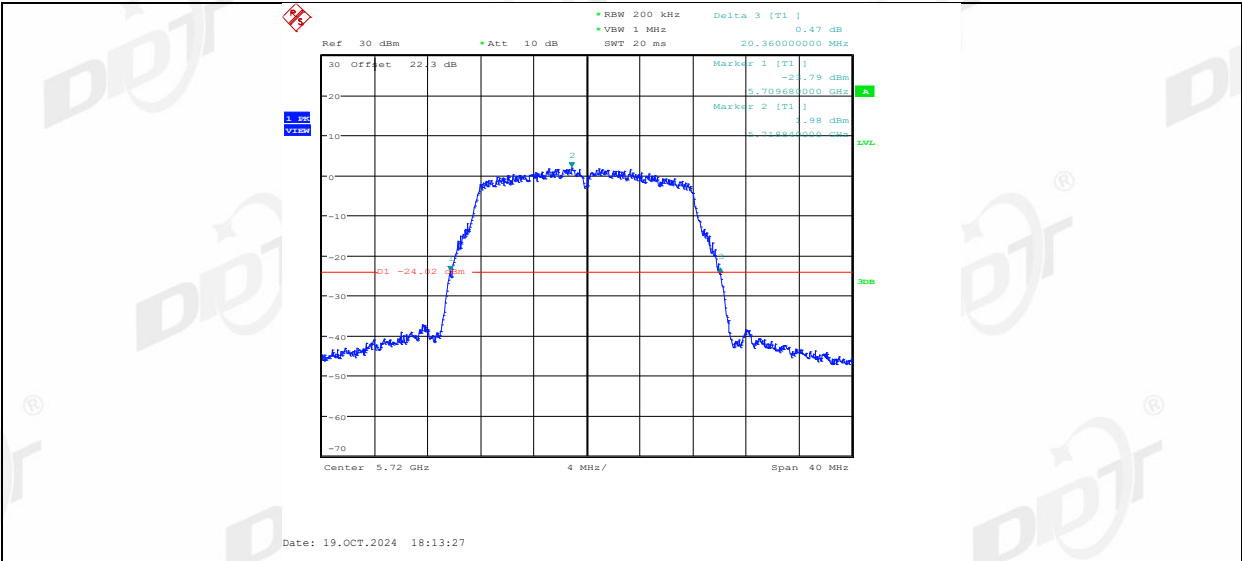
11A Ant1 5700



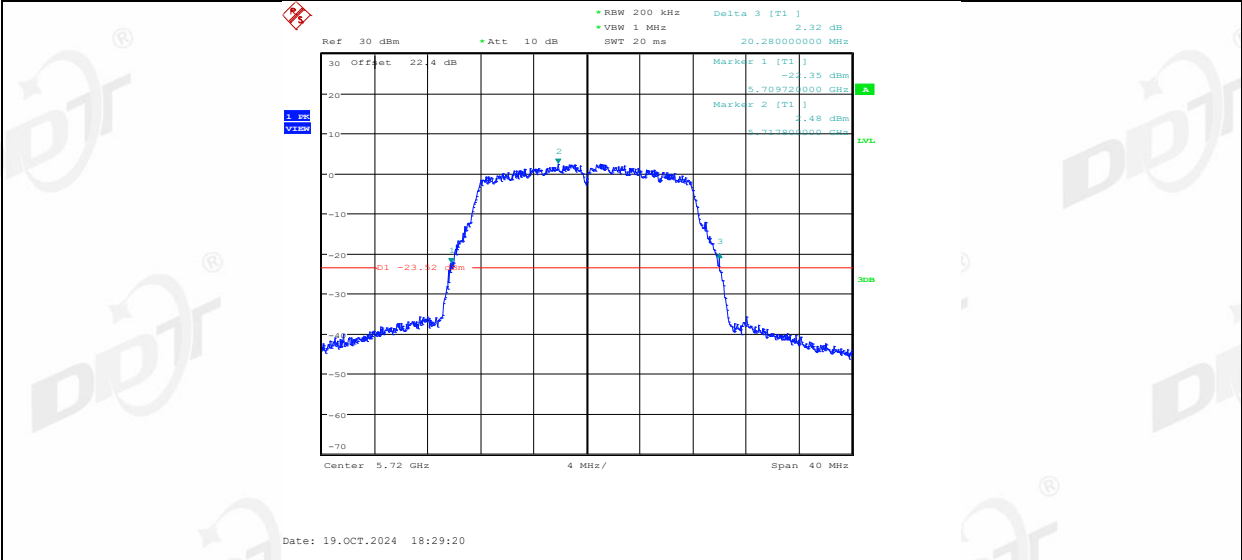
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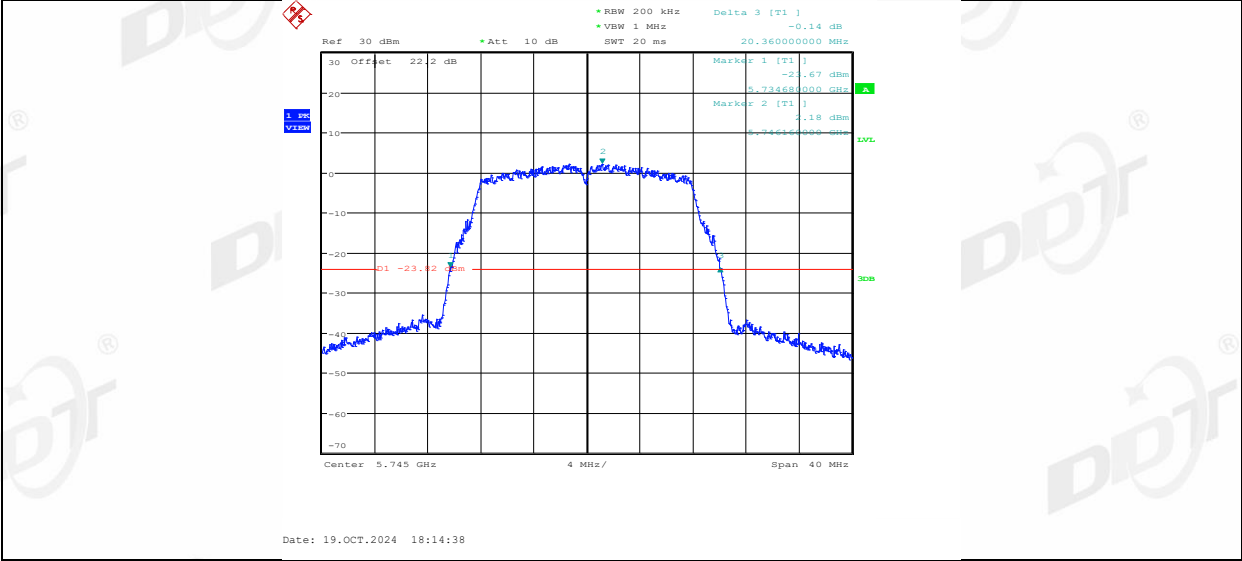
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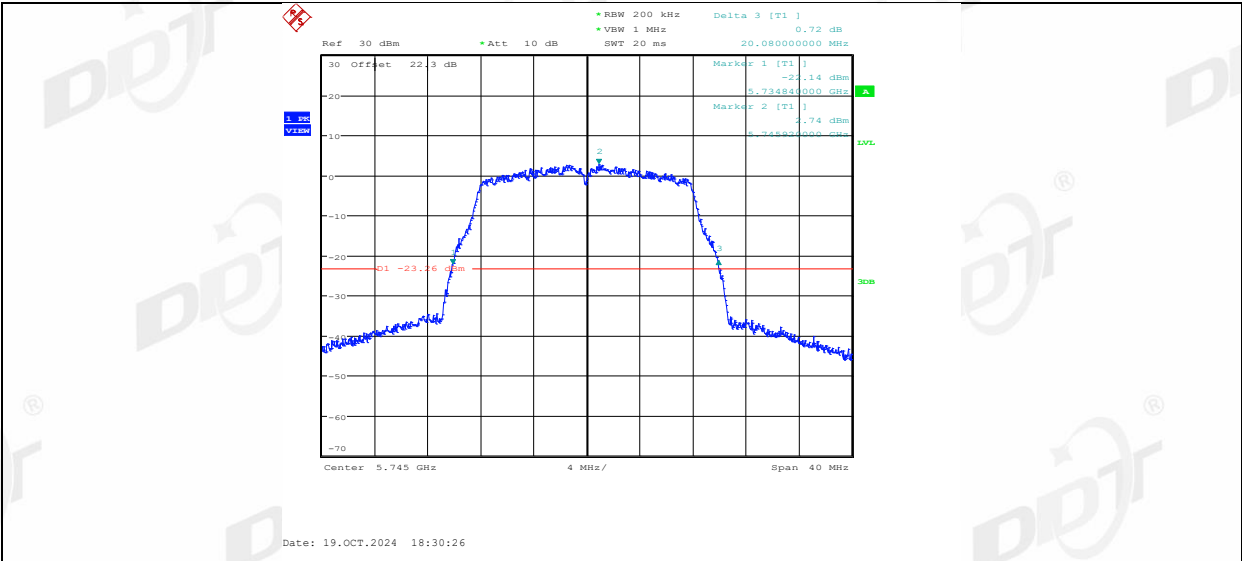
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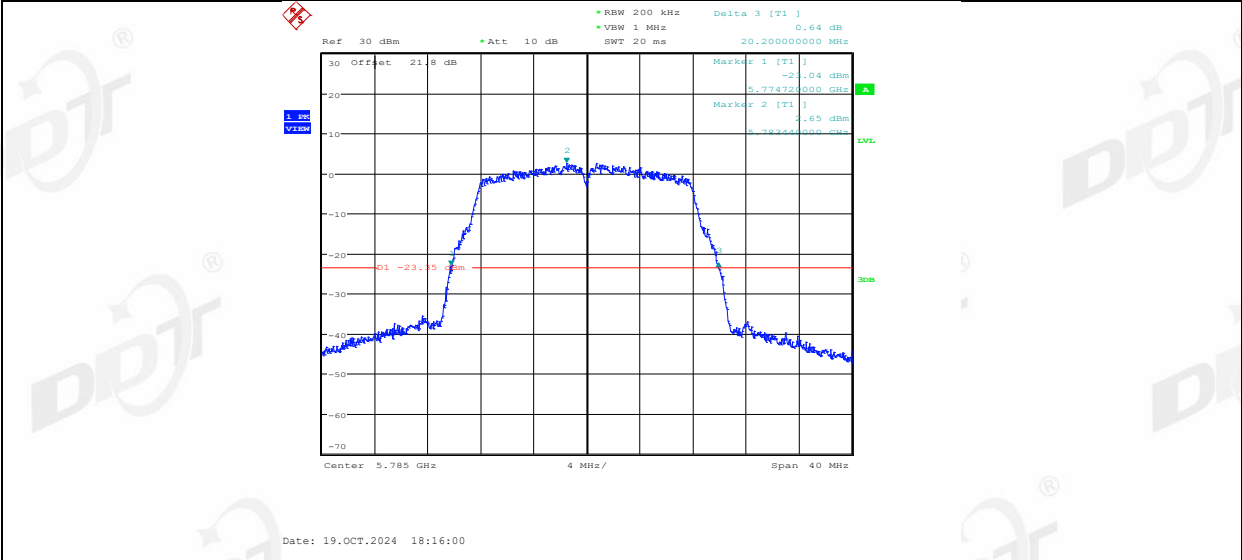
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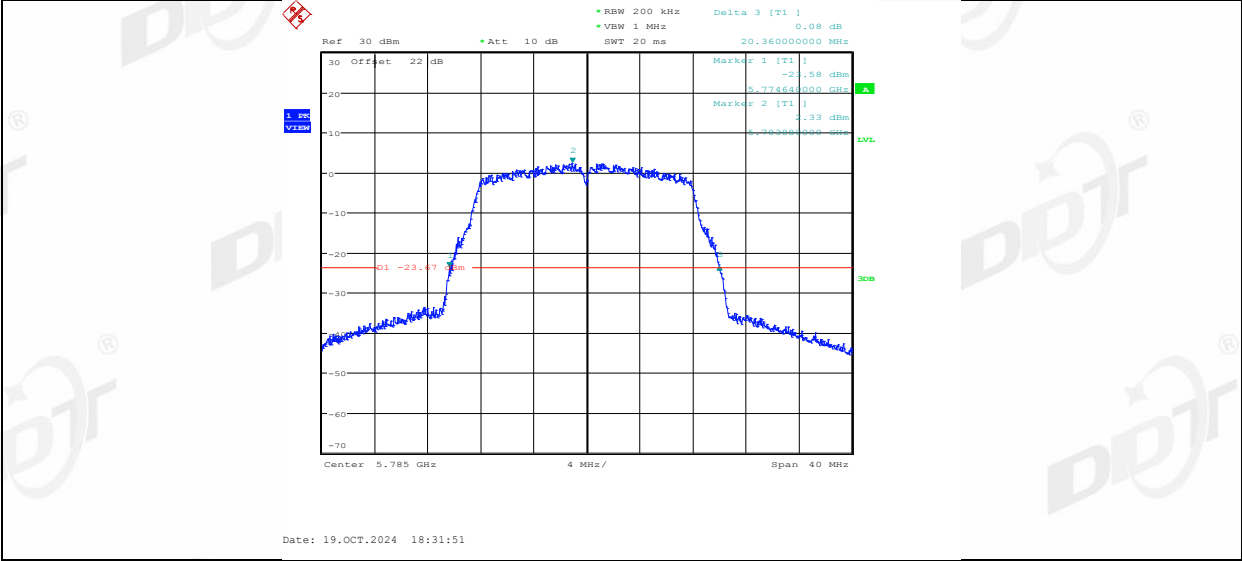
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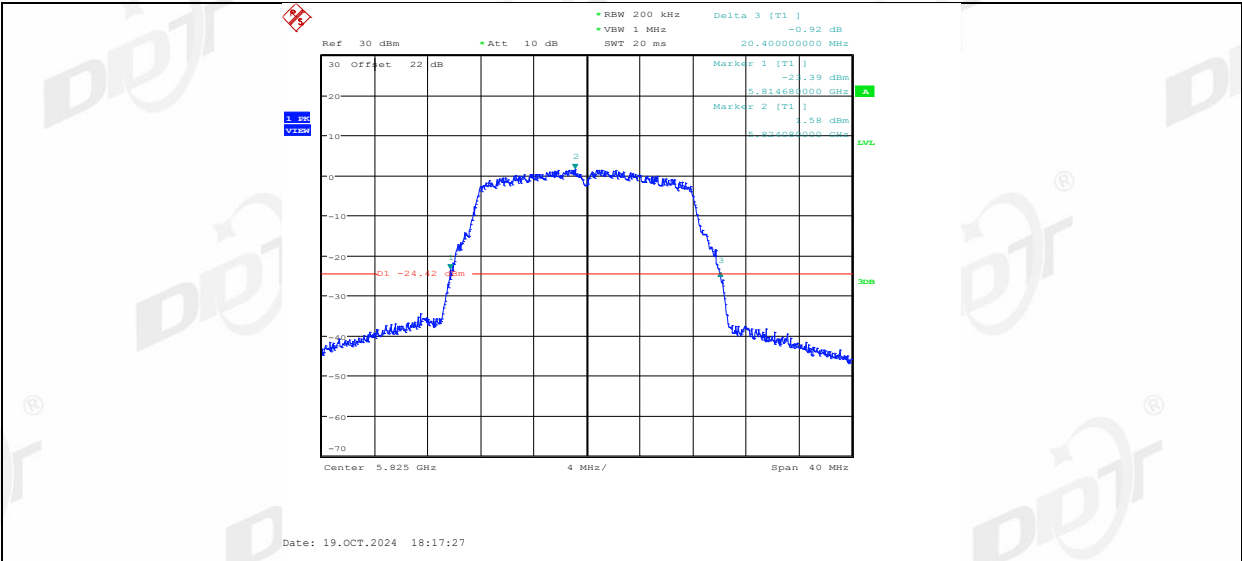
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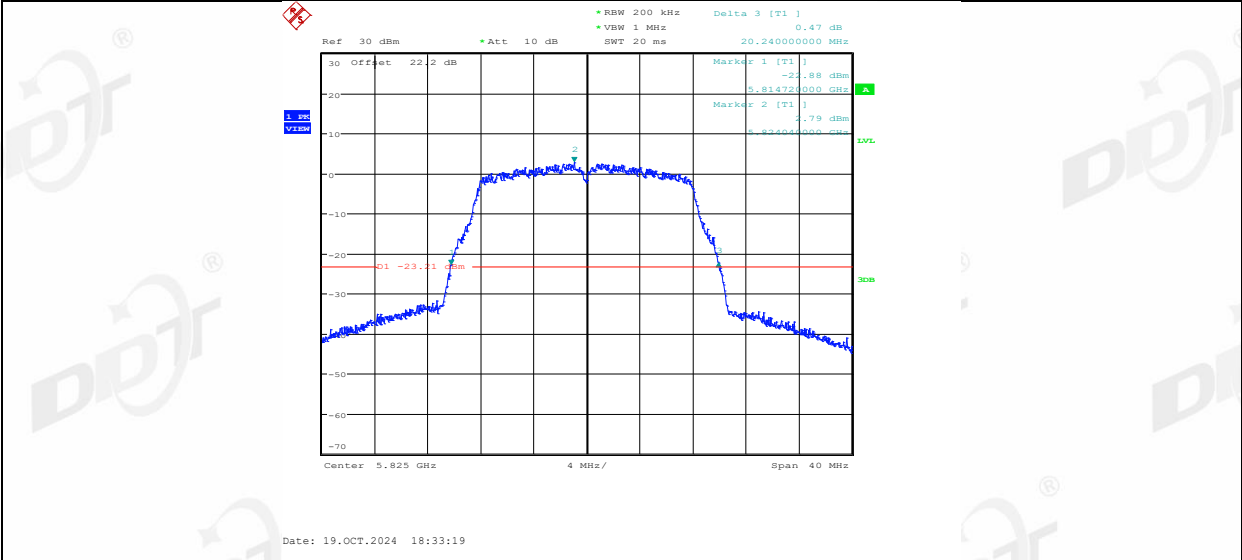
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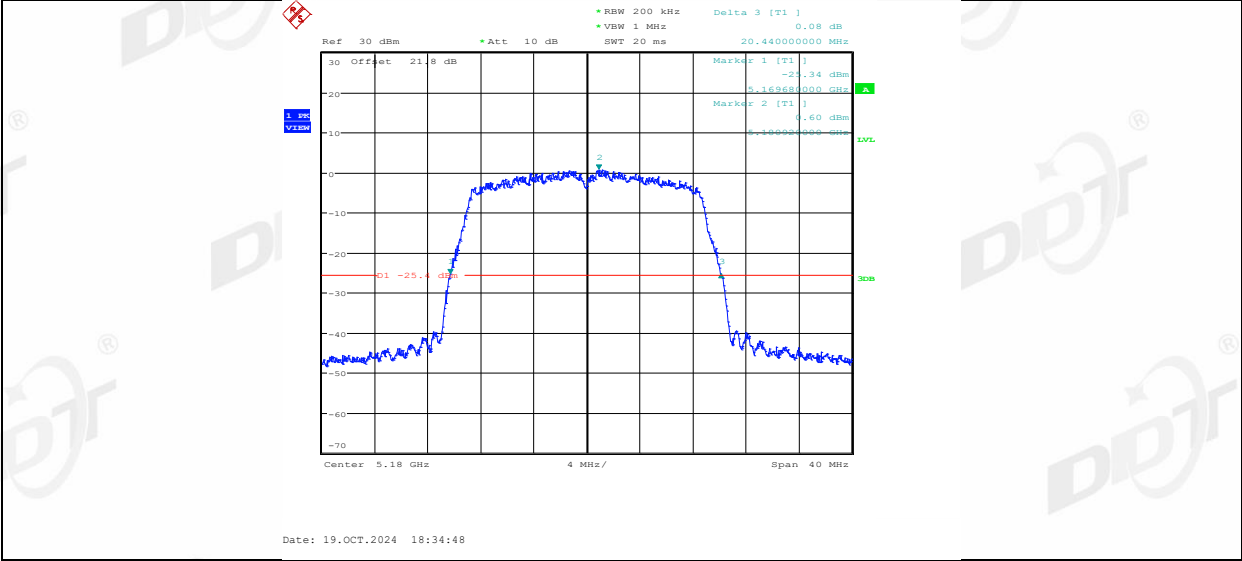
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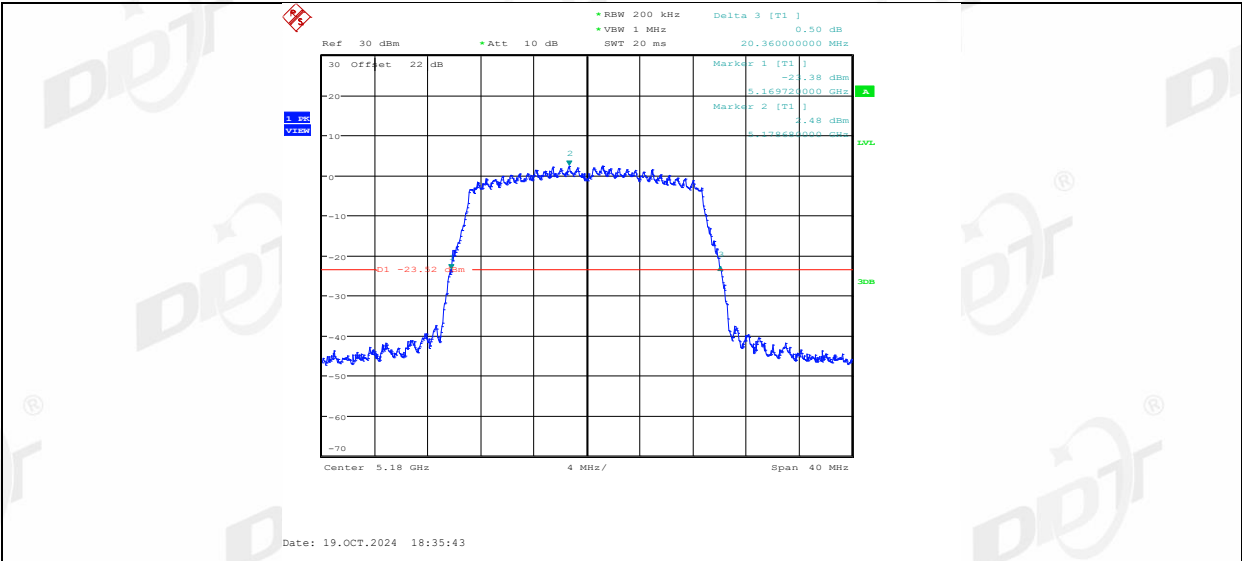
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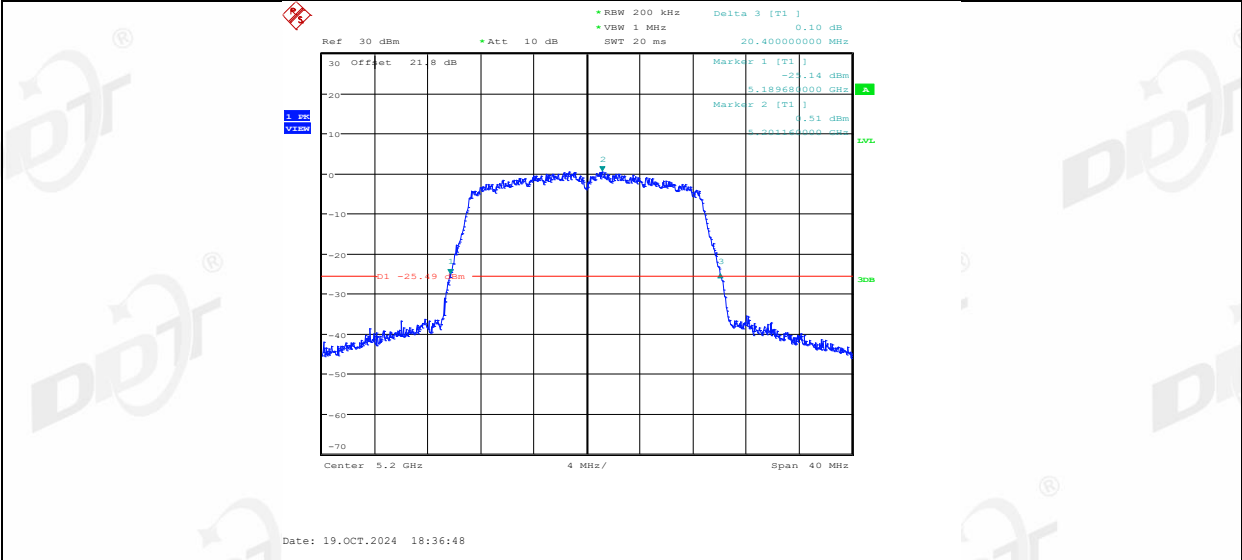
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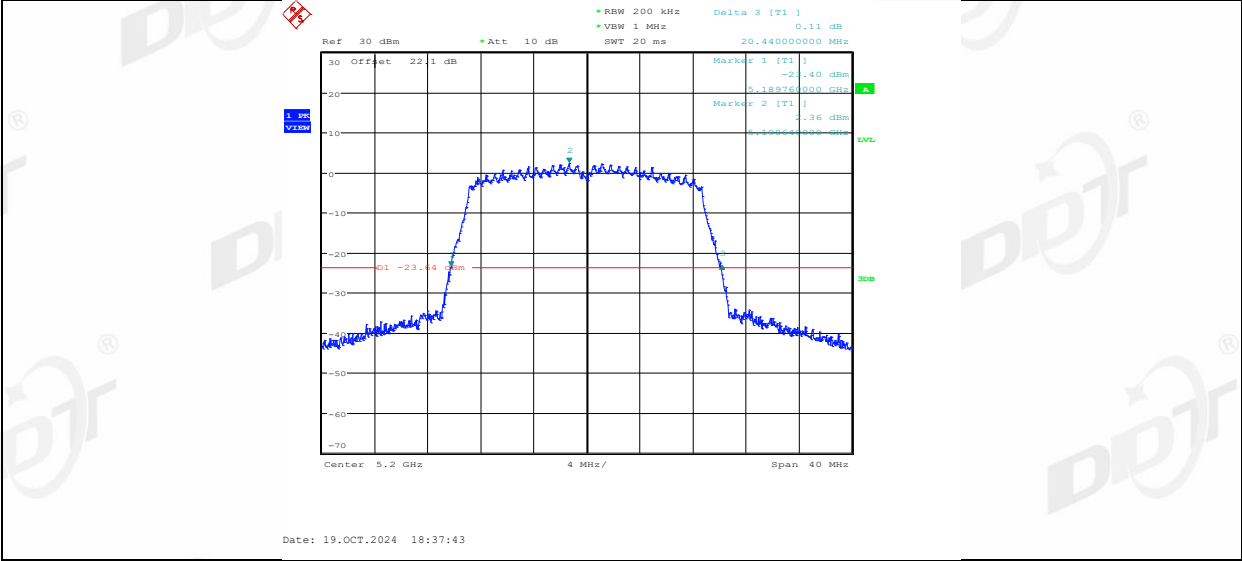
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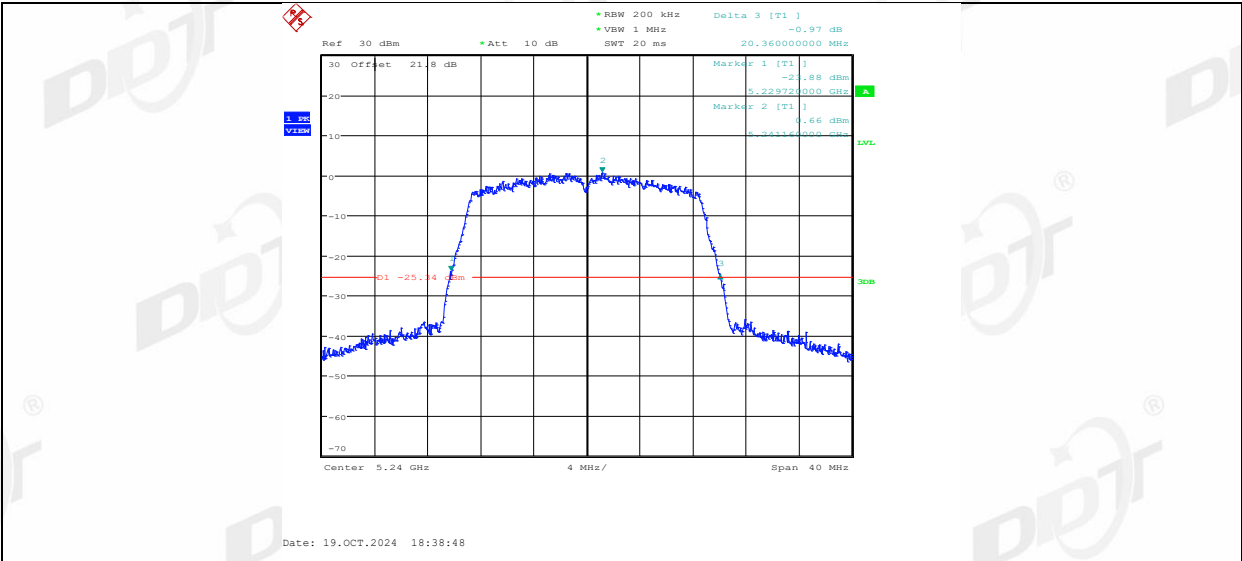
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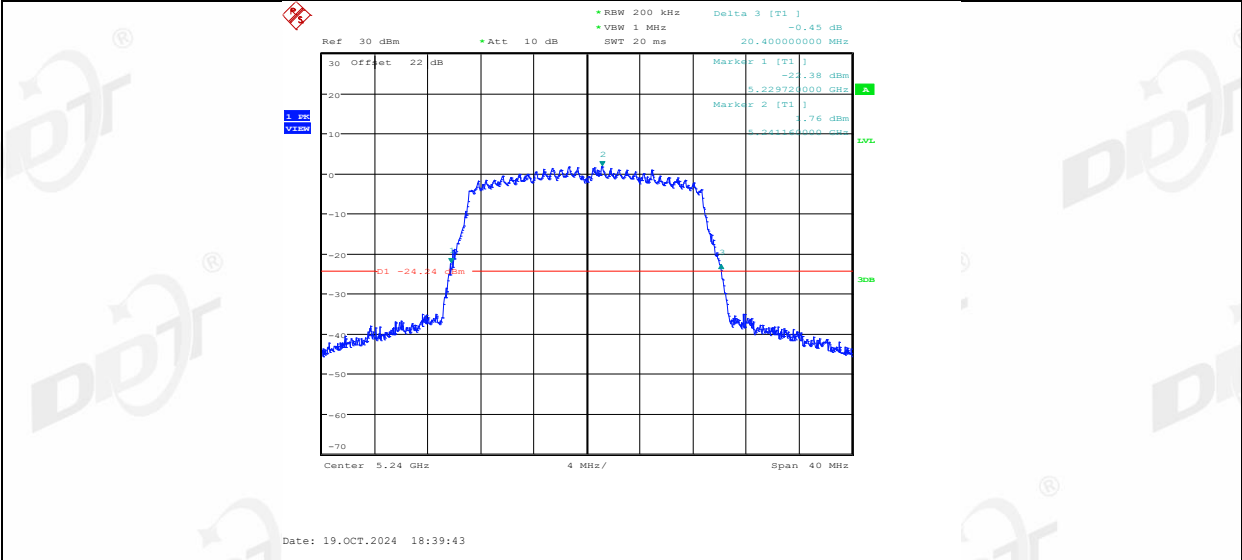
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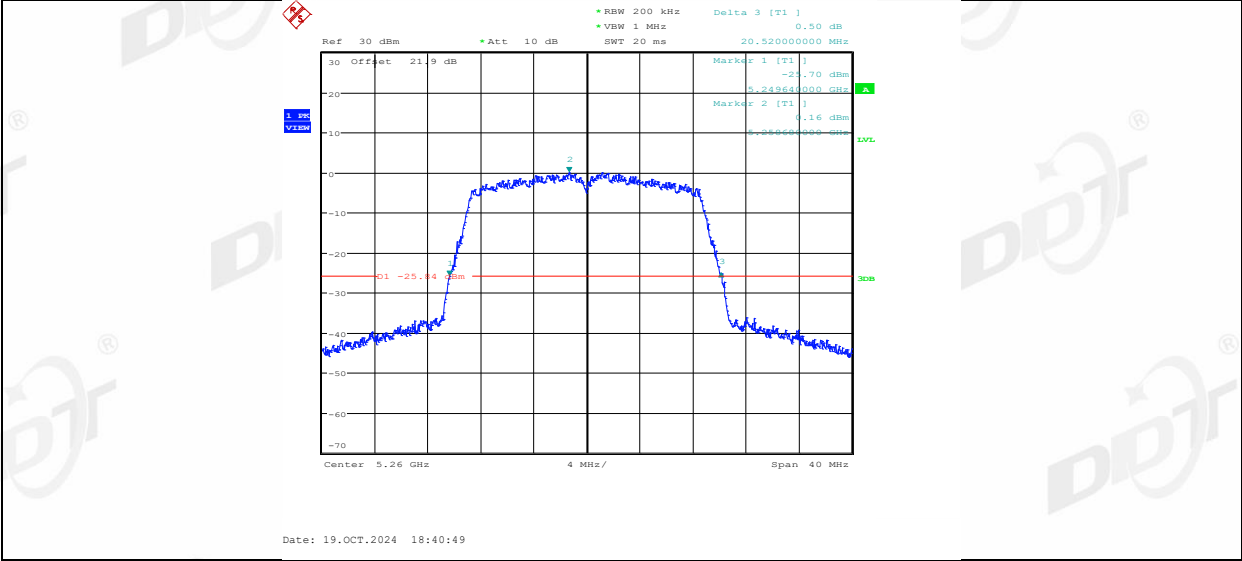
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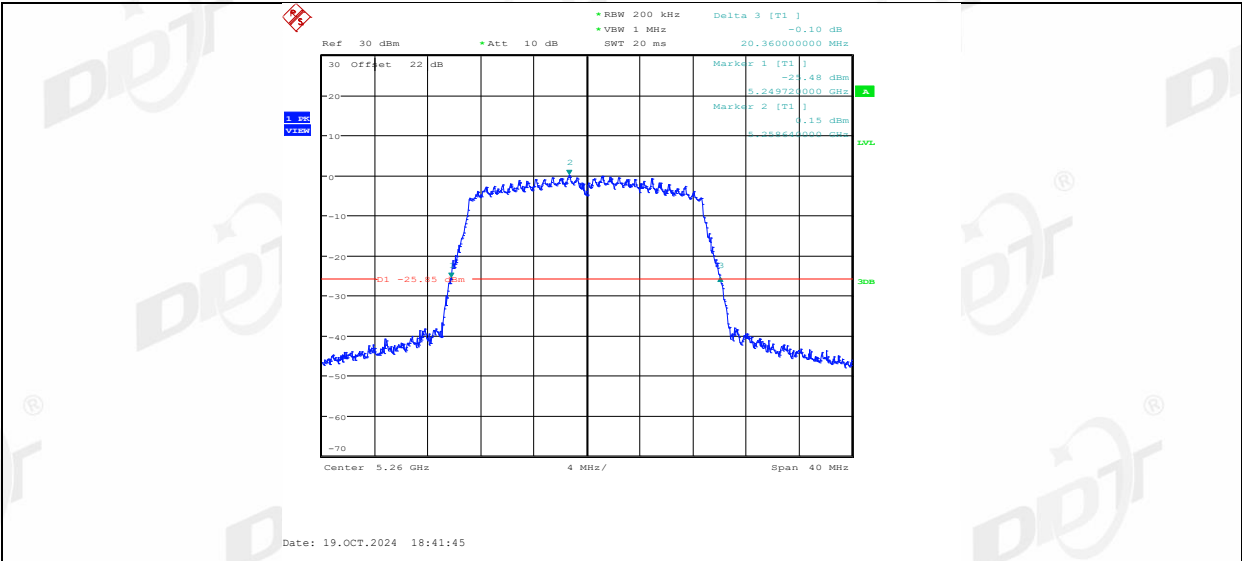
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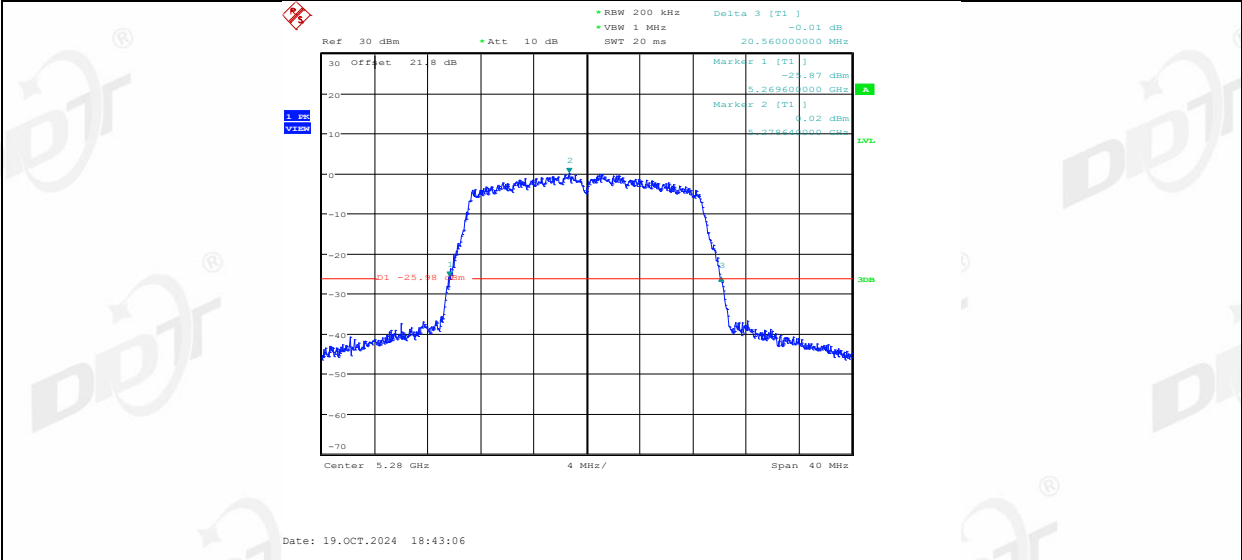
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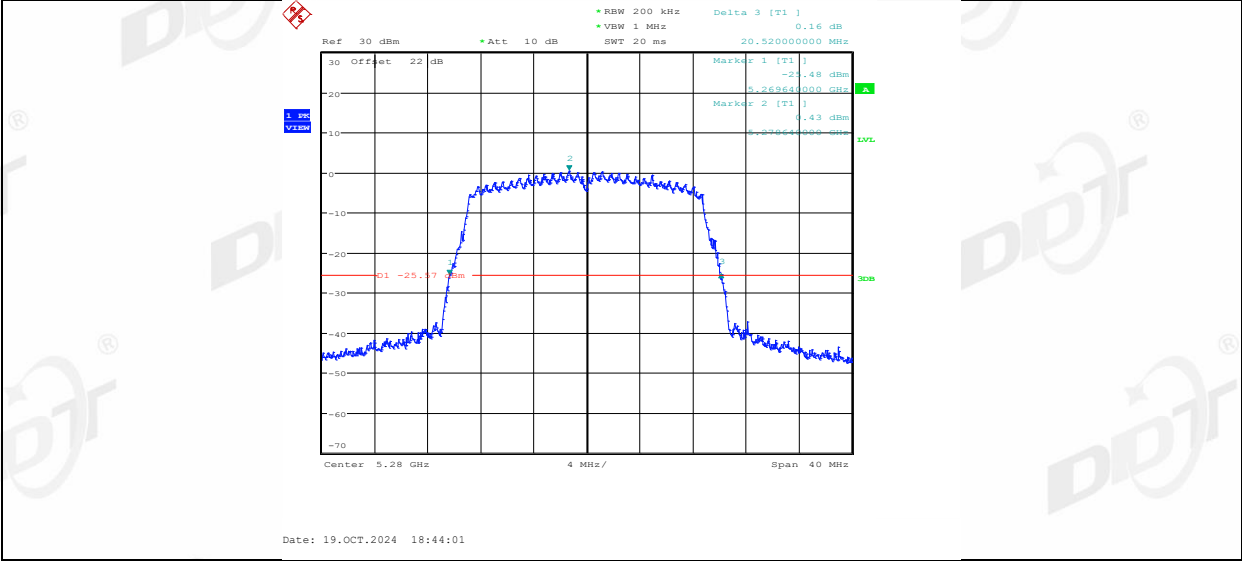
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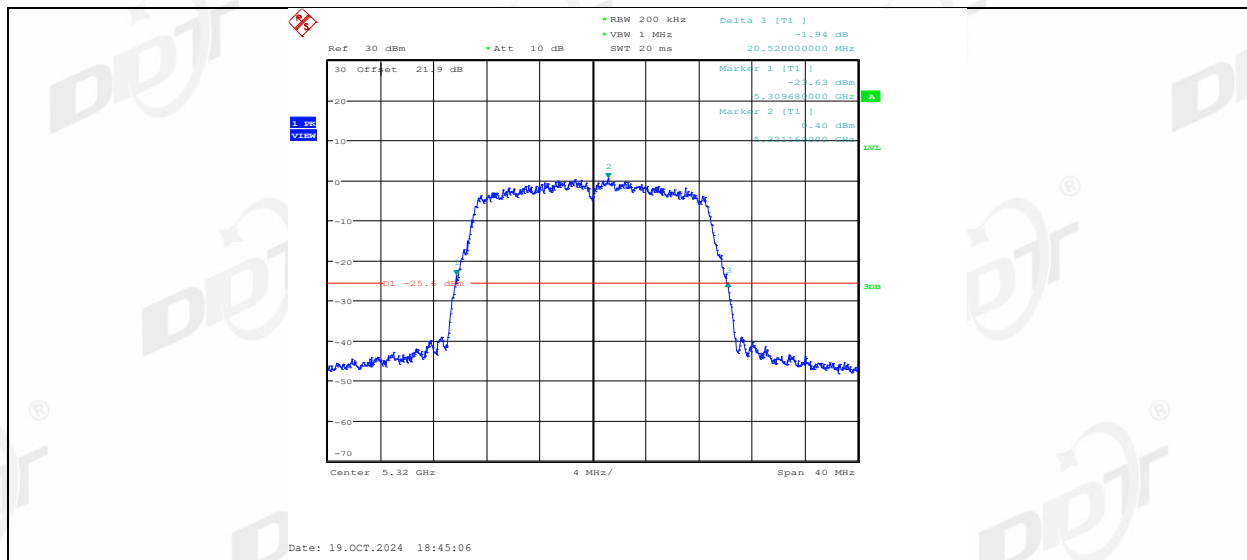
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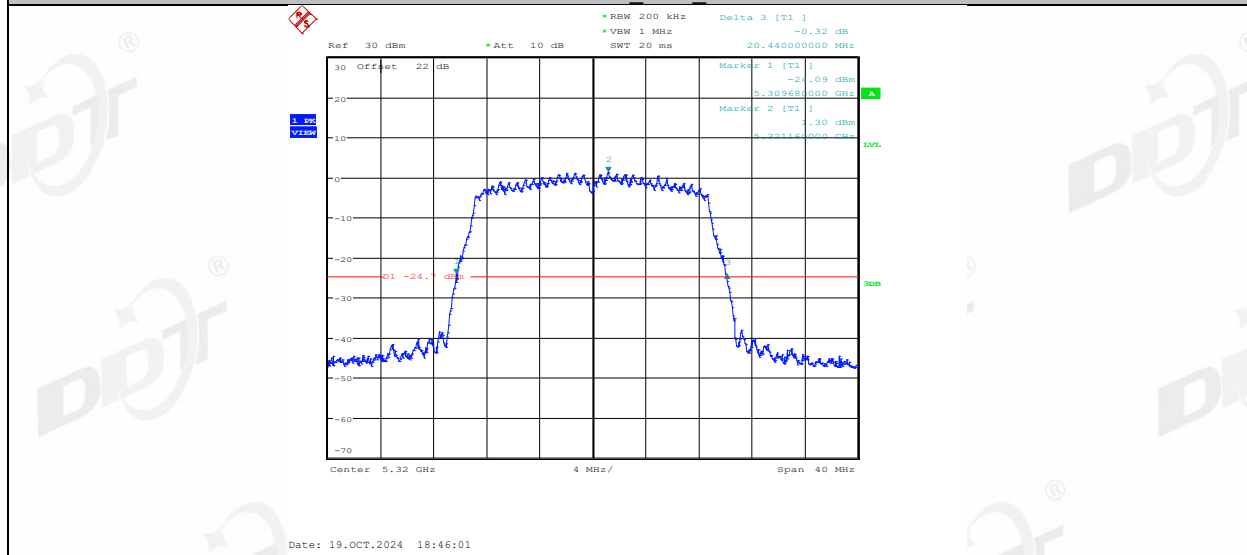
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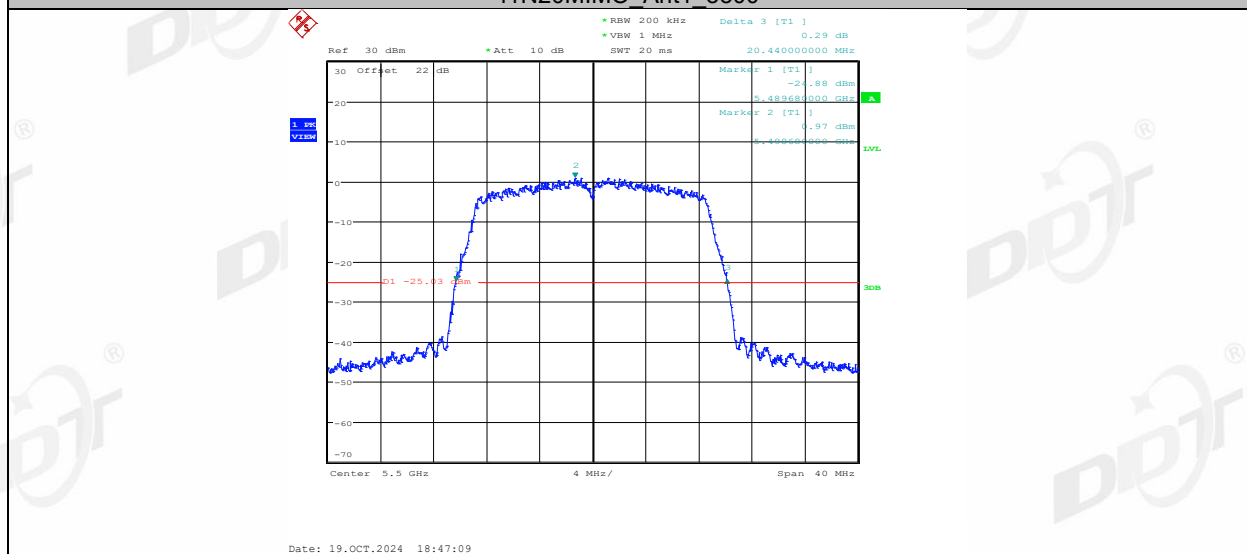
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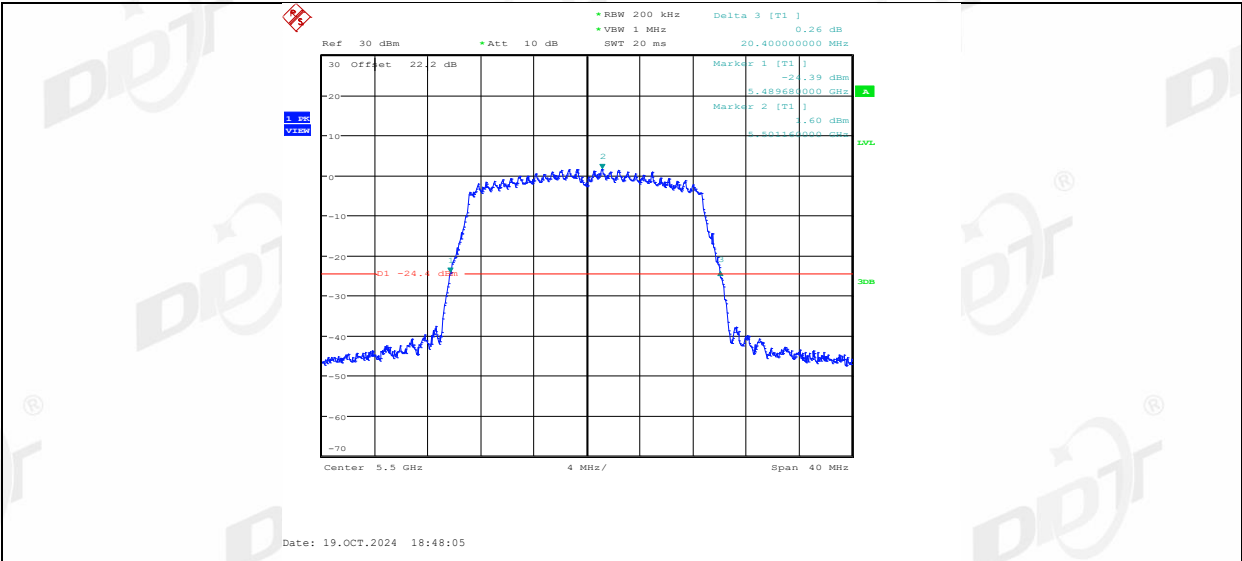
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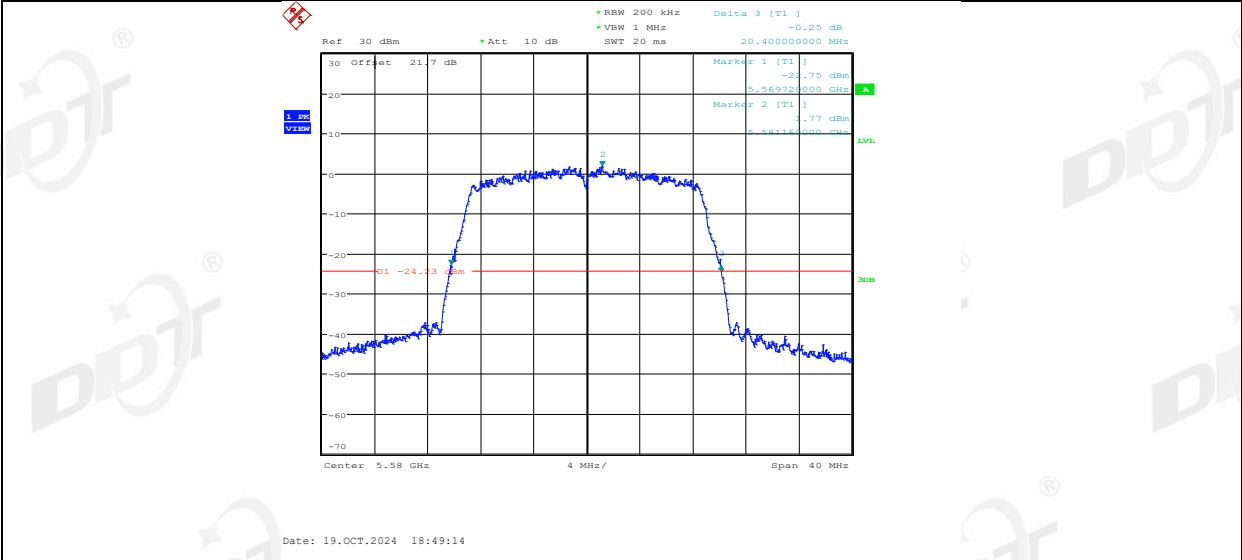
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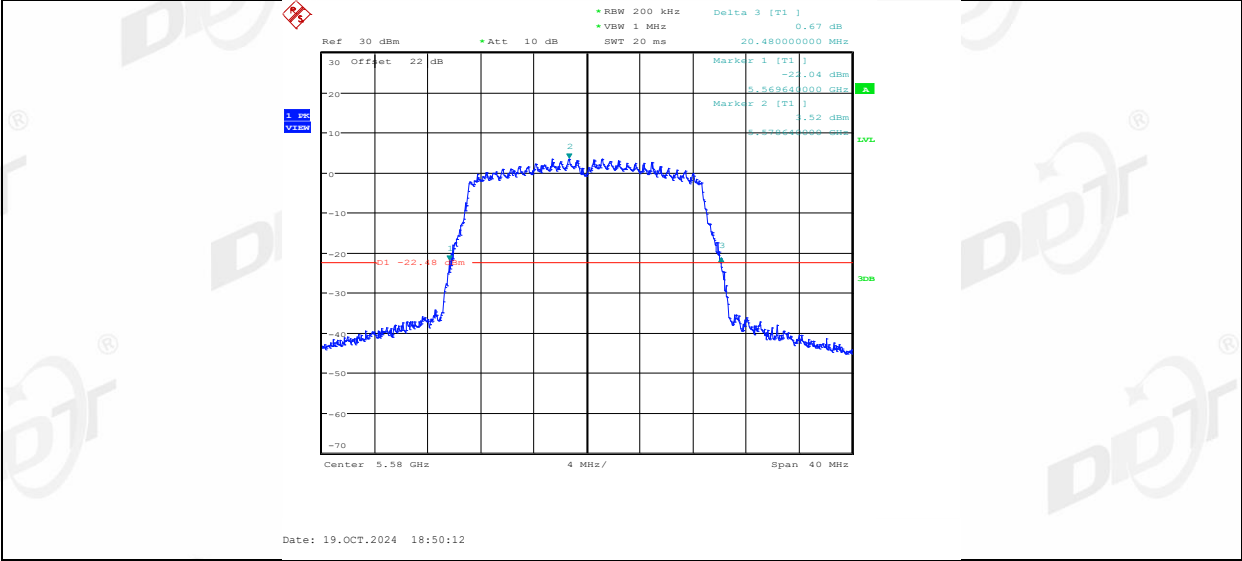
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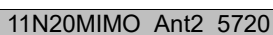
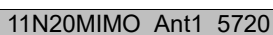
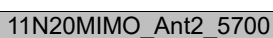
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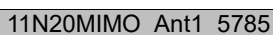
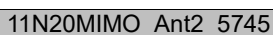
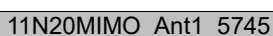


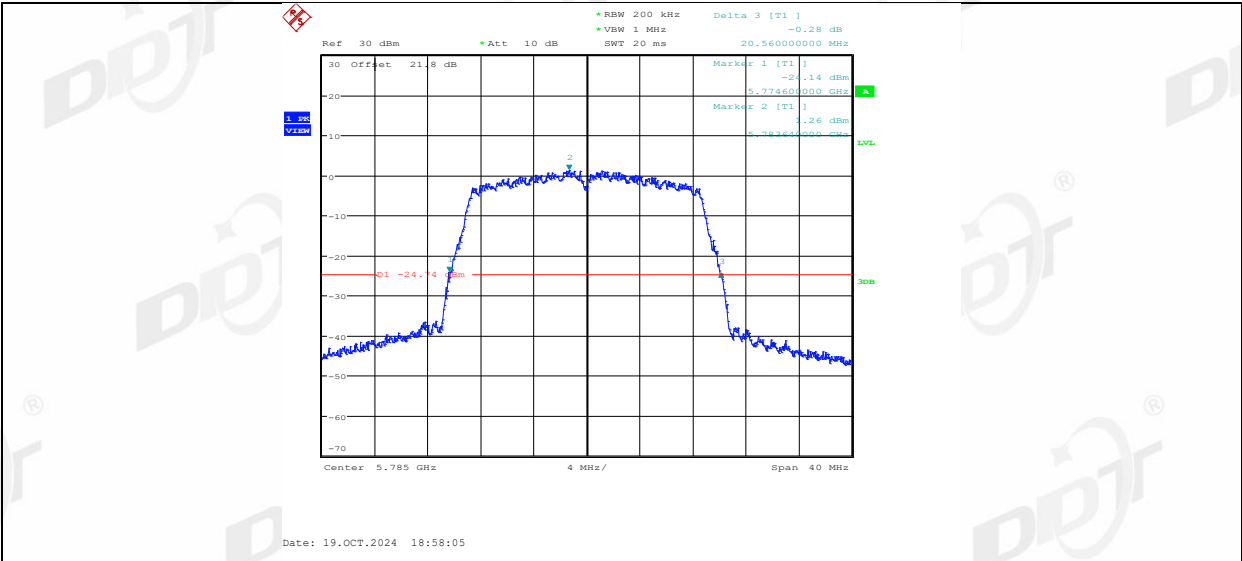
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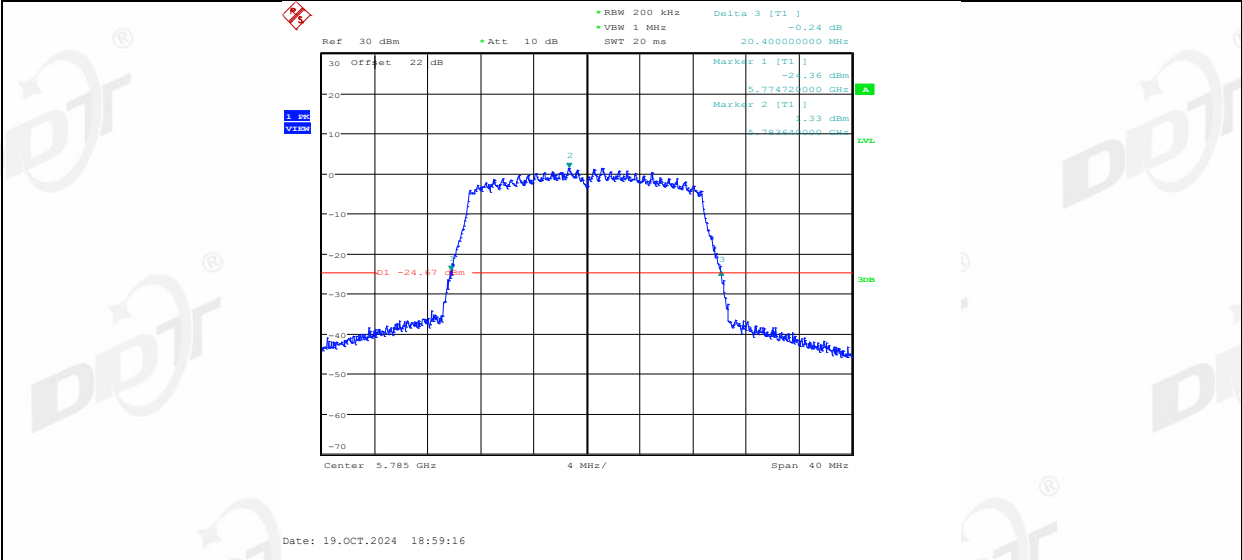
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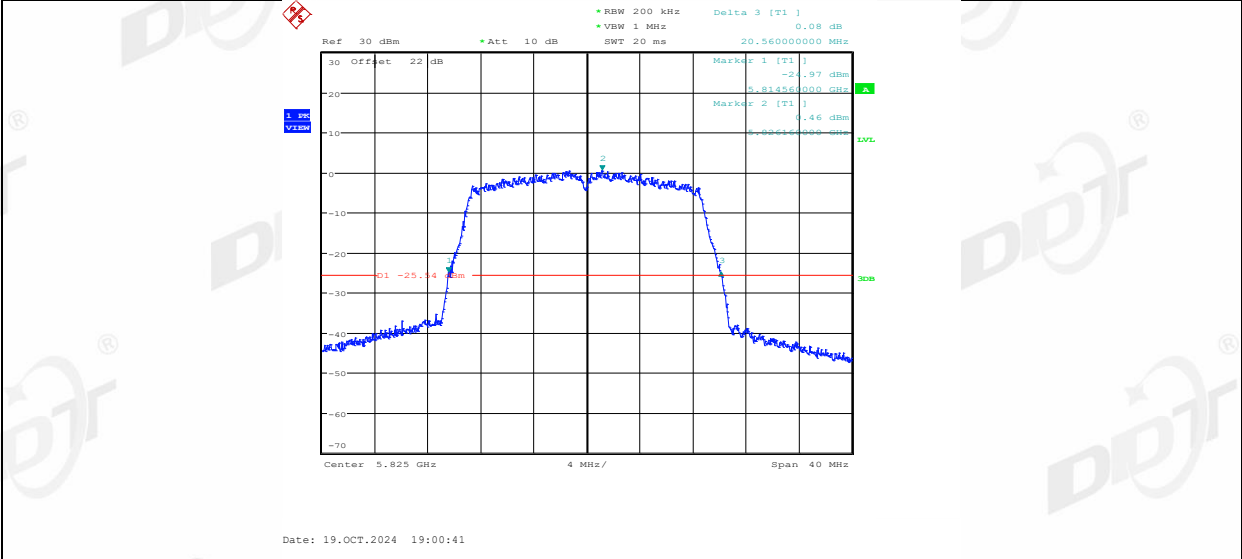




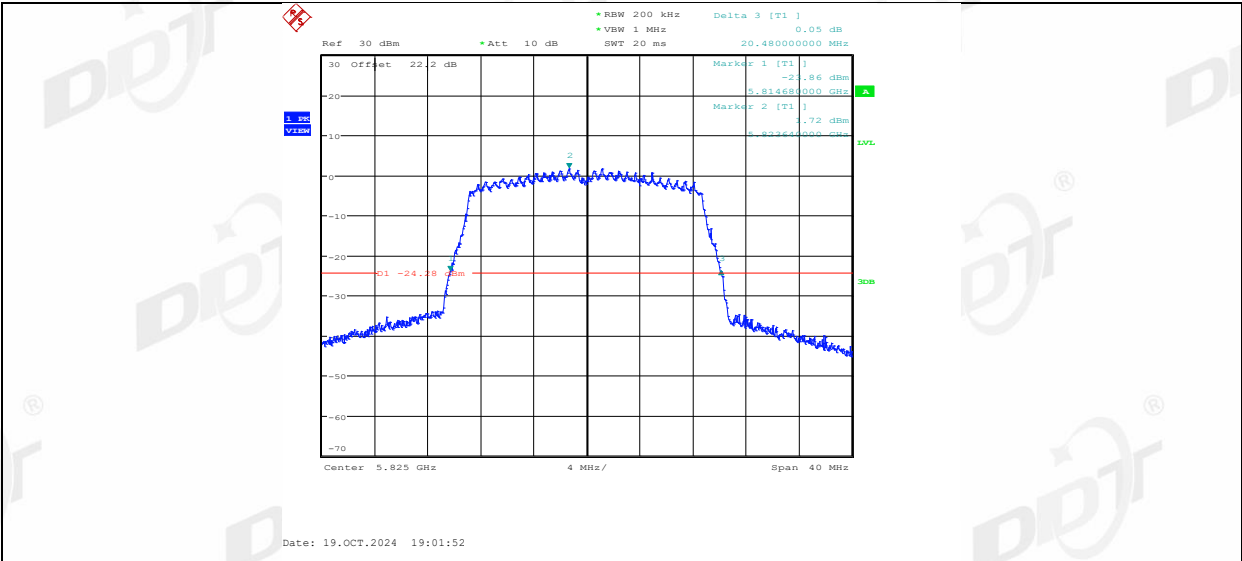
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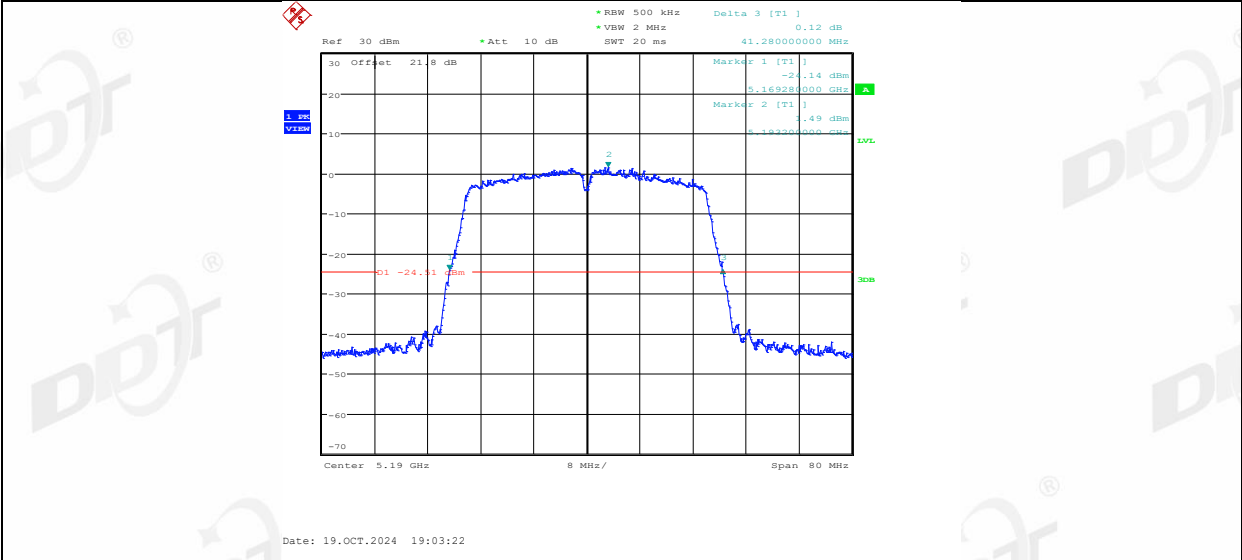
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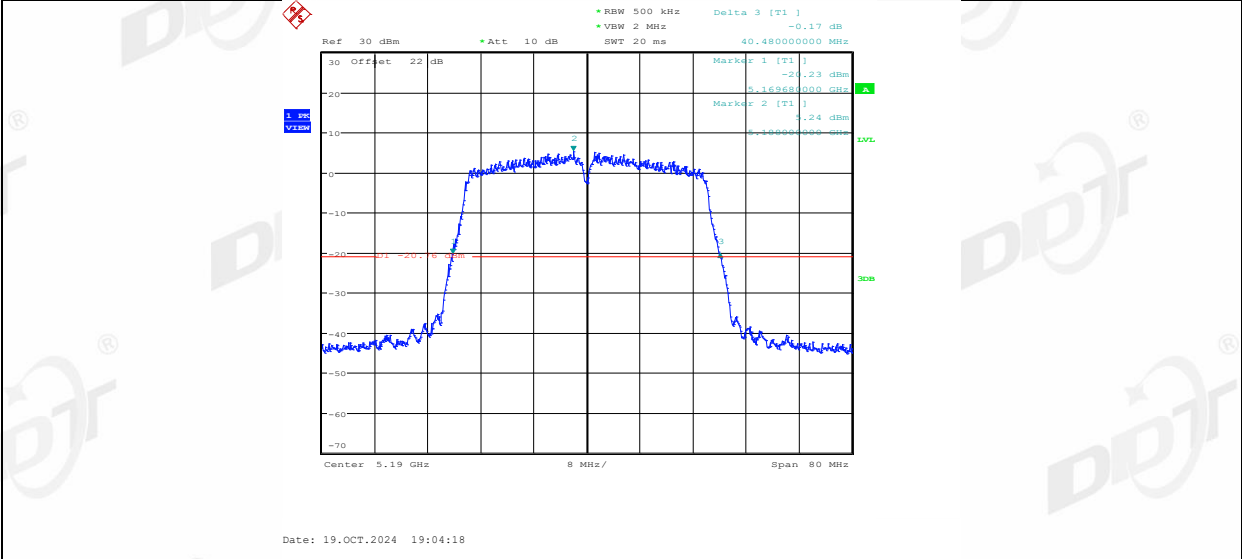
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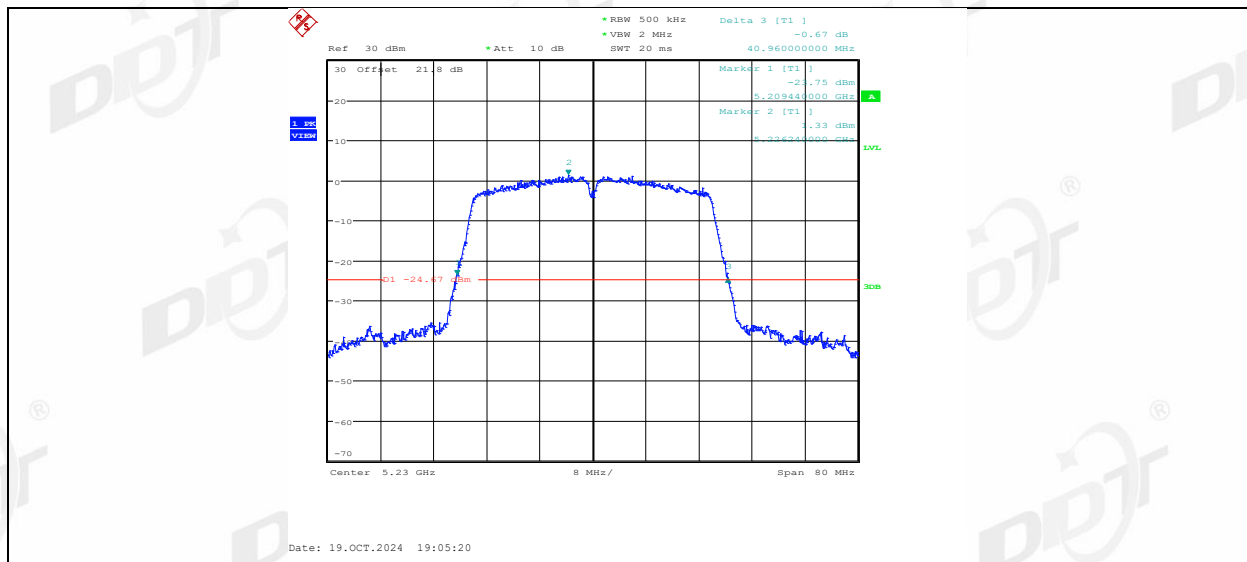
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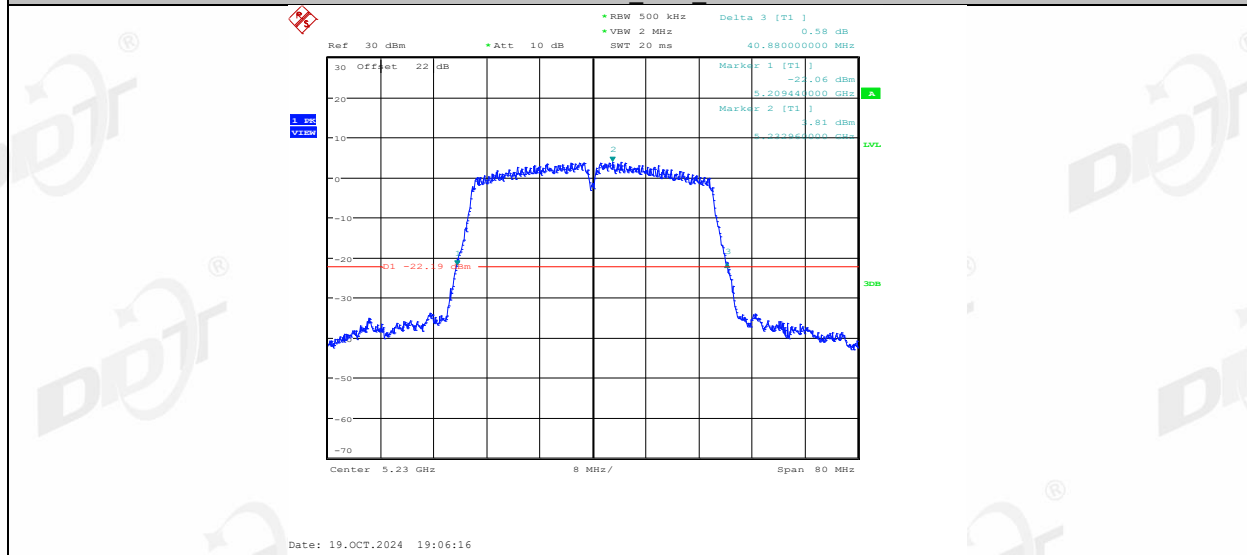
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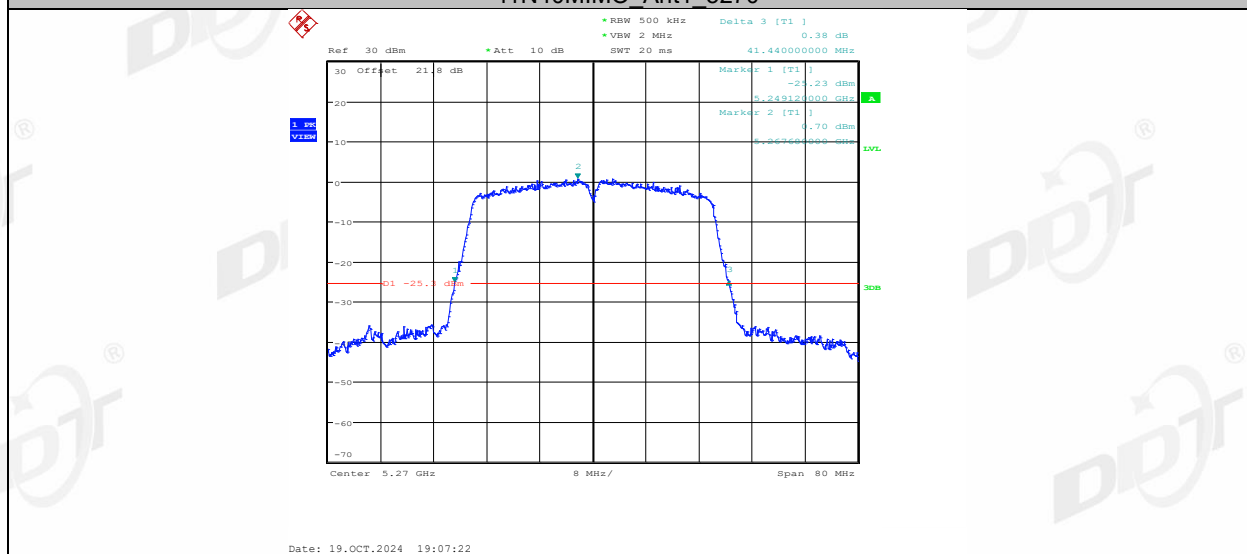
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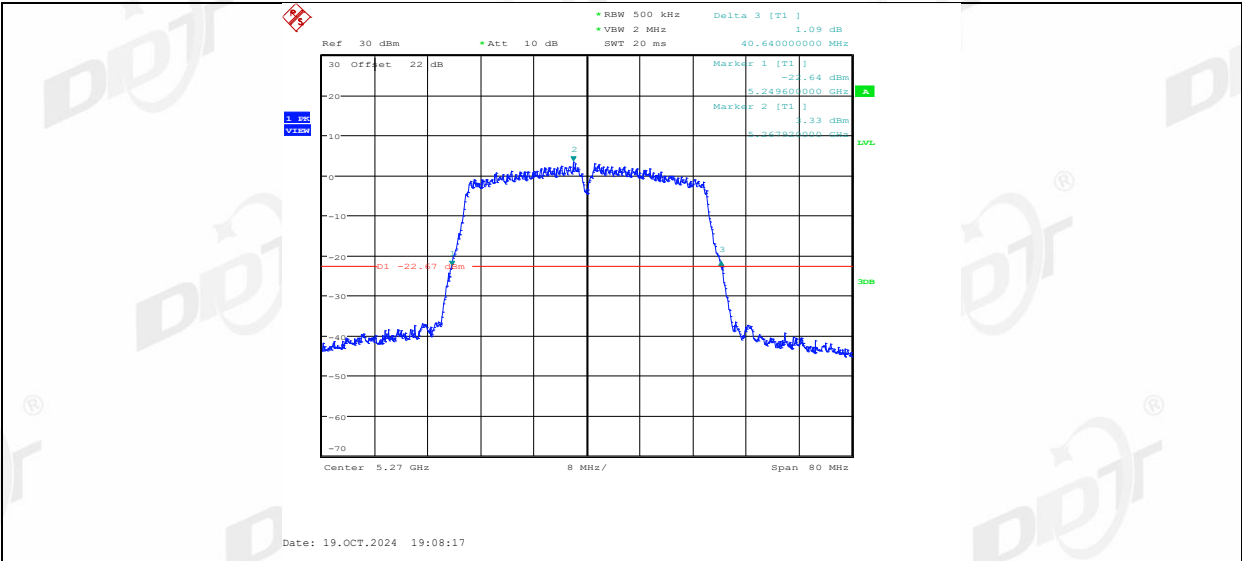
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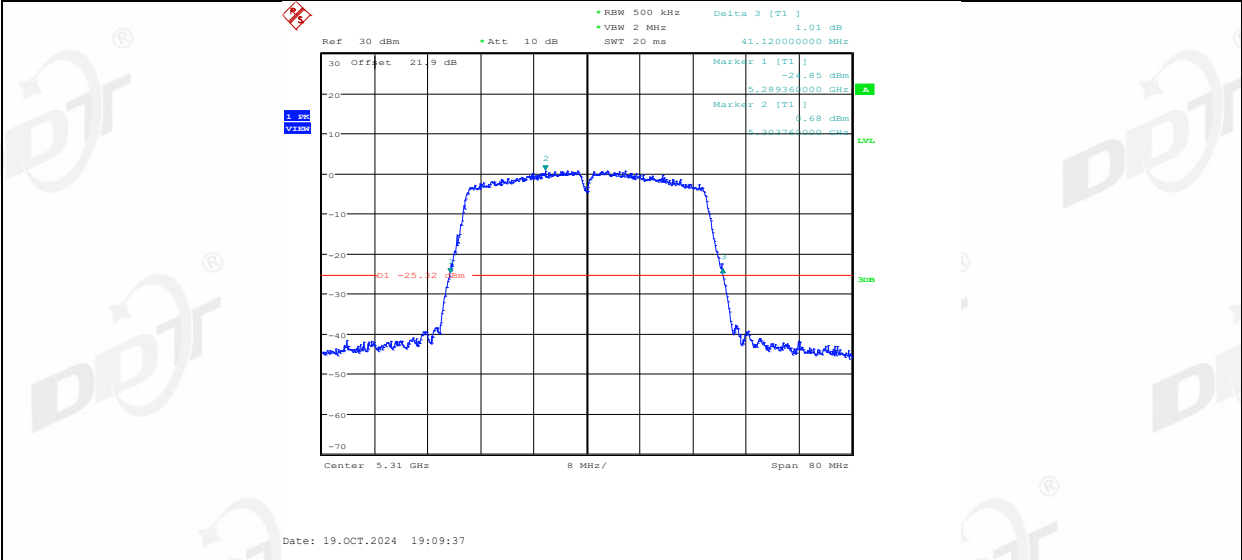
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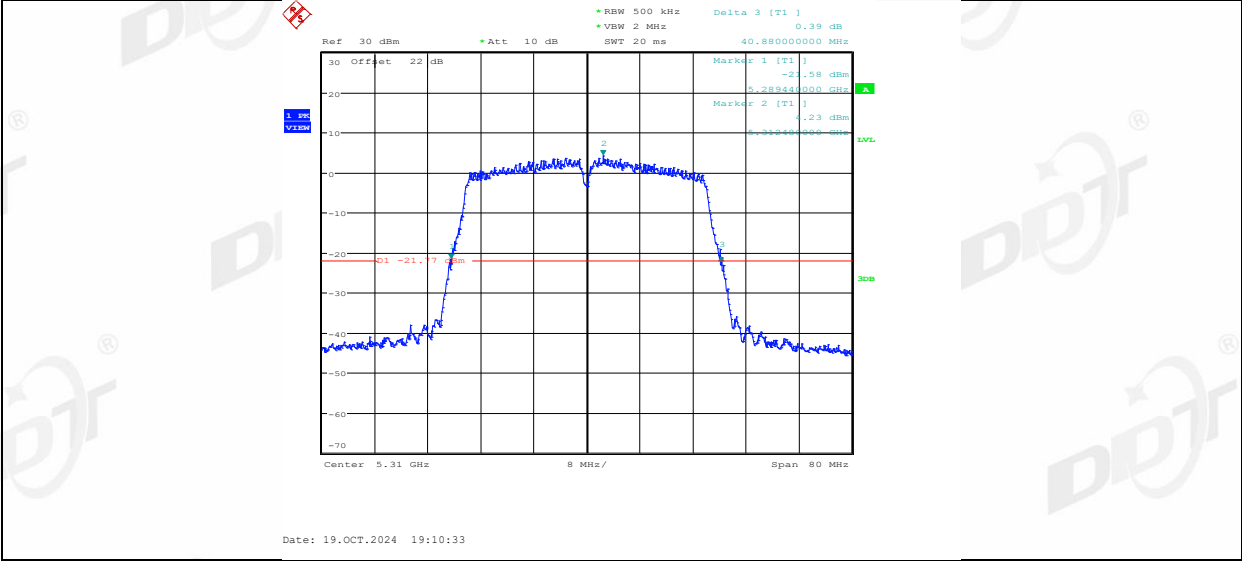
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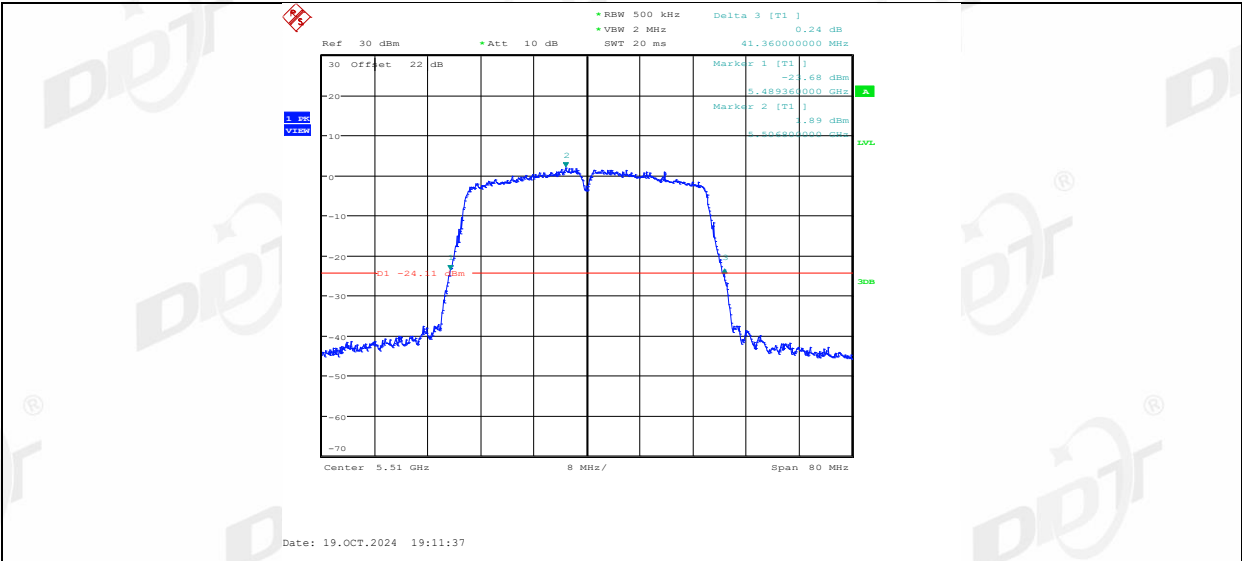
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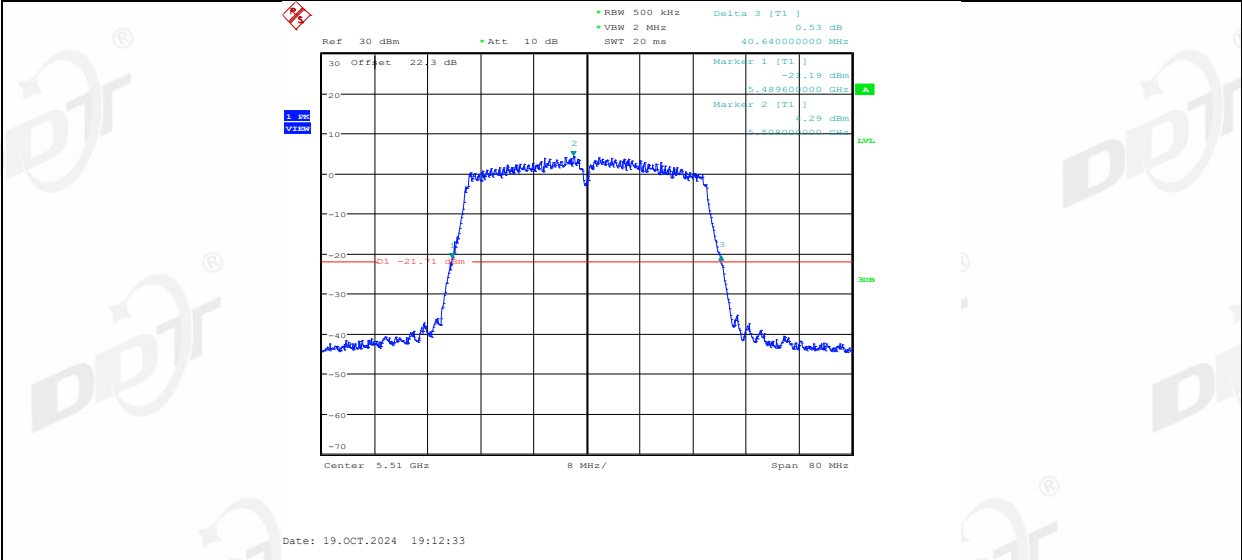
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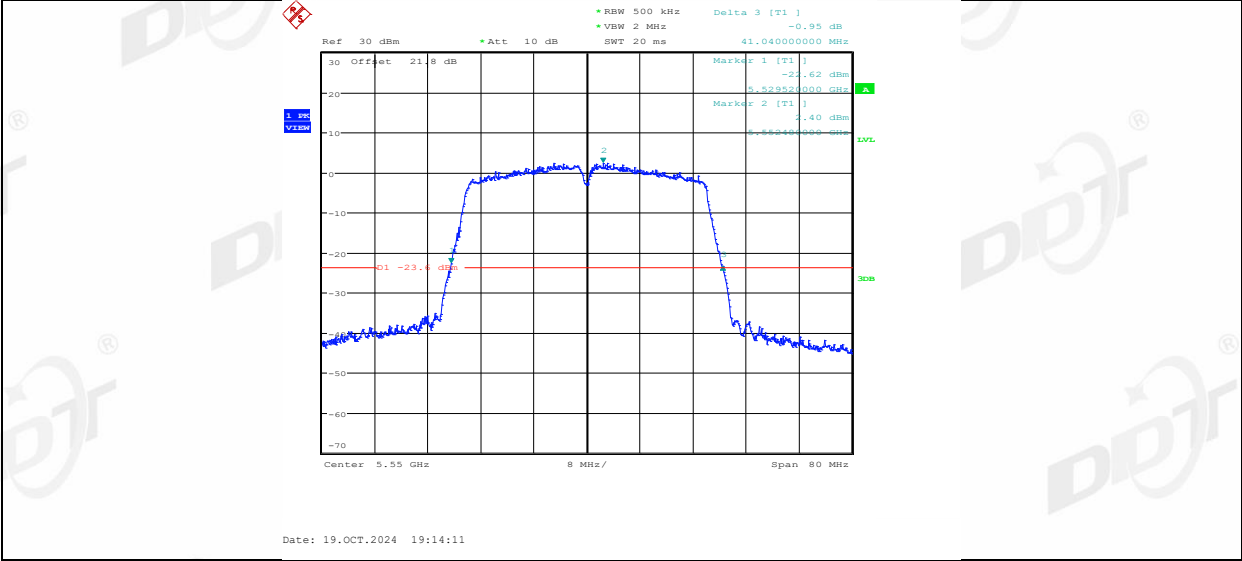
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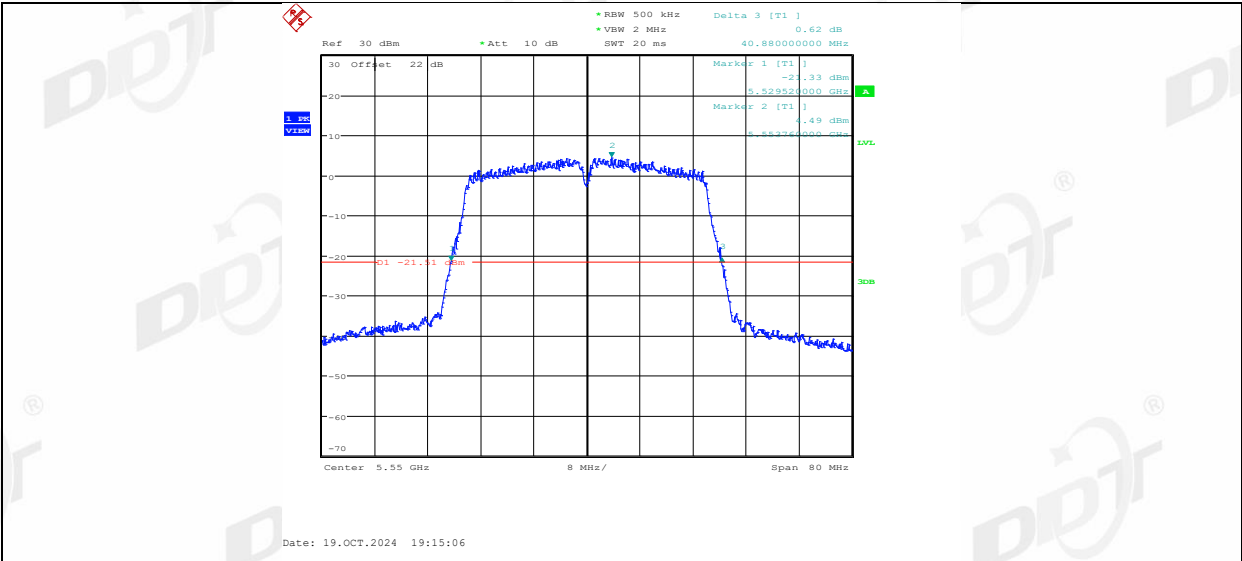
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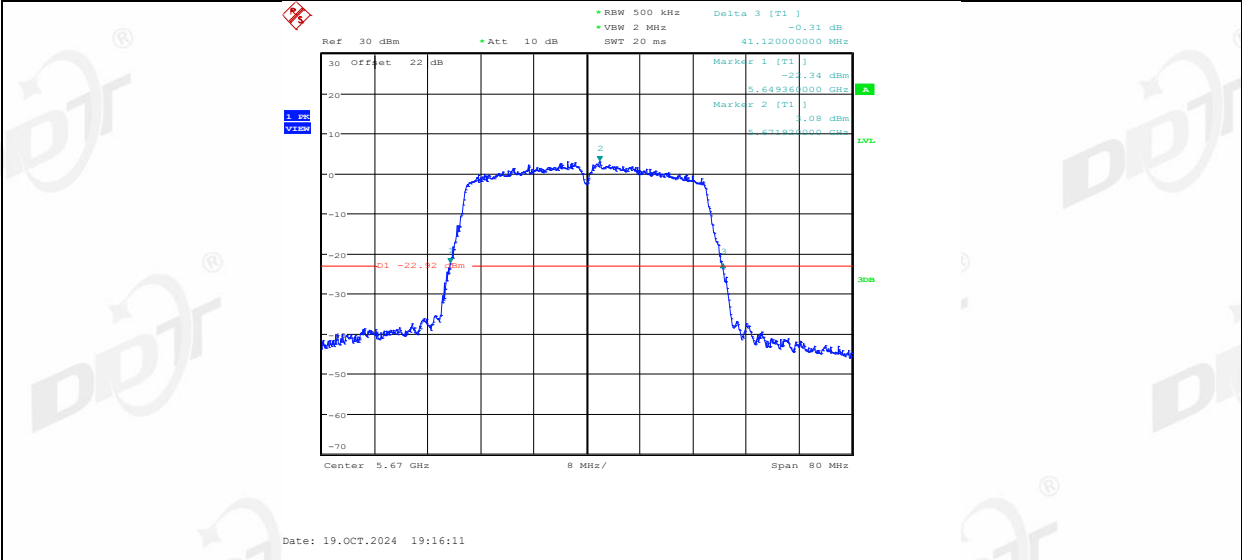
11N40MIMO_Ant1_5550



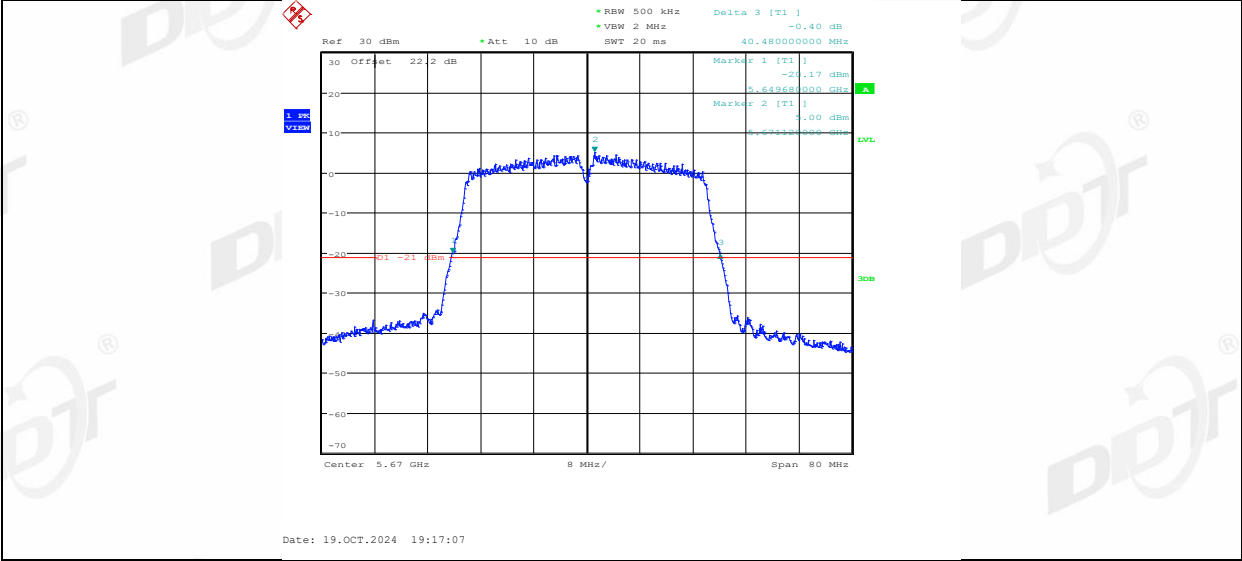
11N40MIMO_Ant2_5550



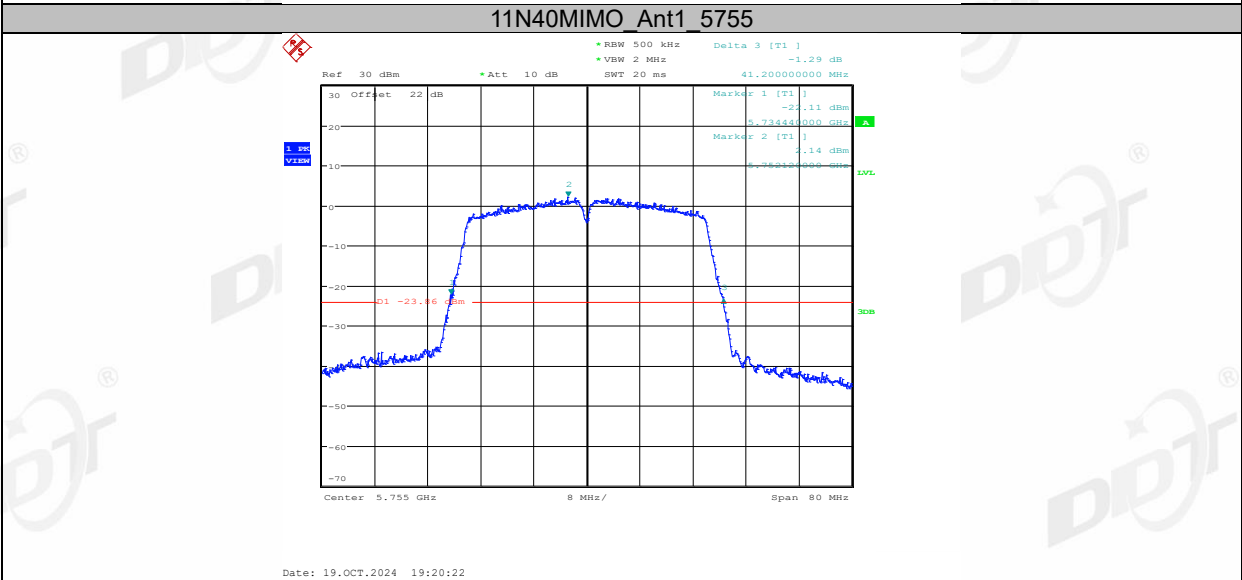
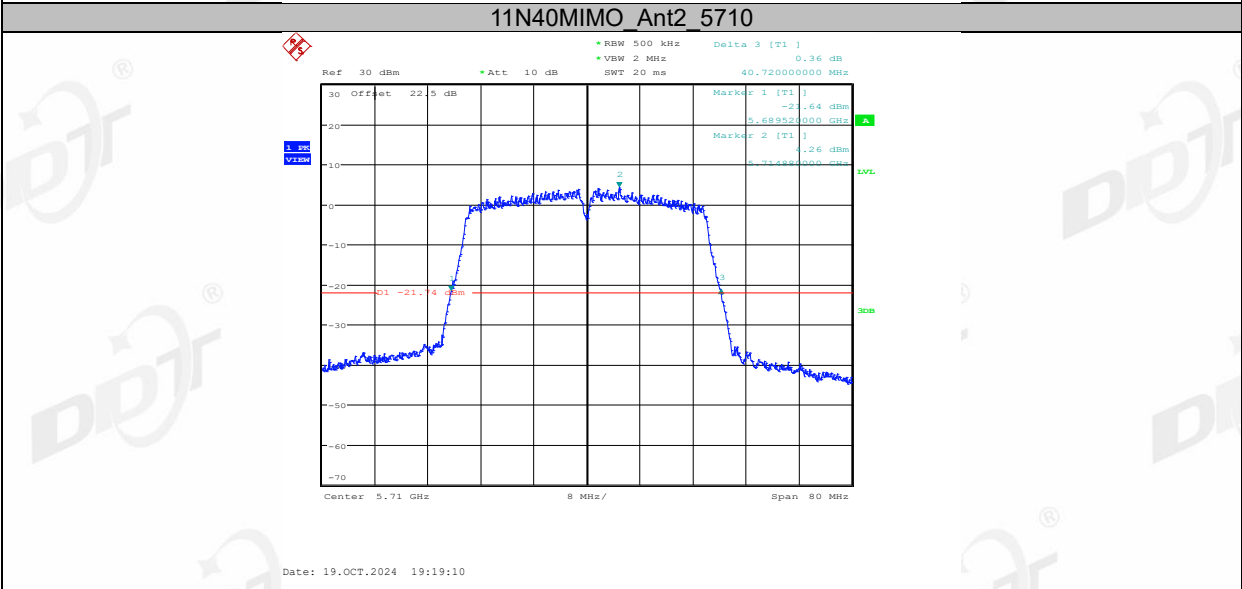
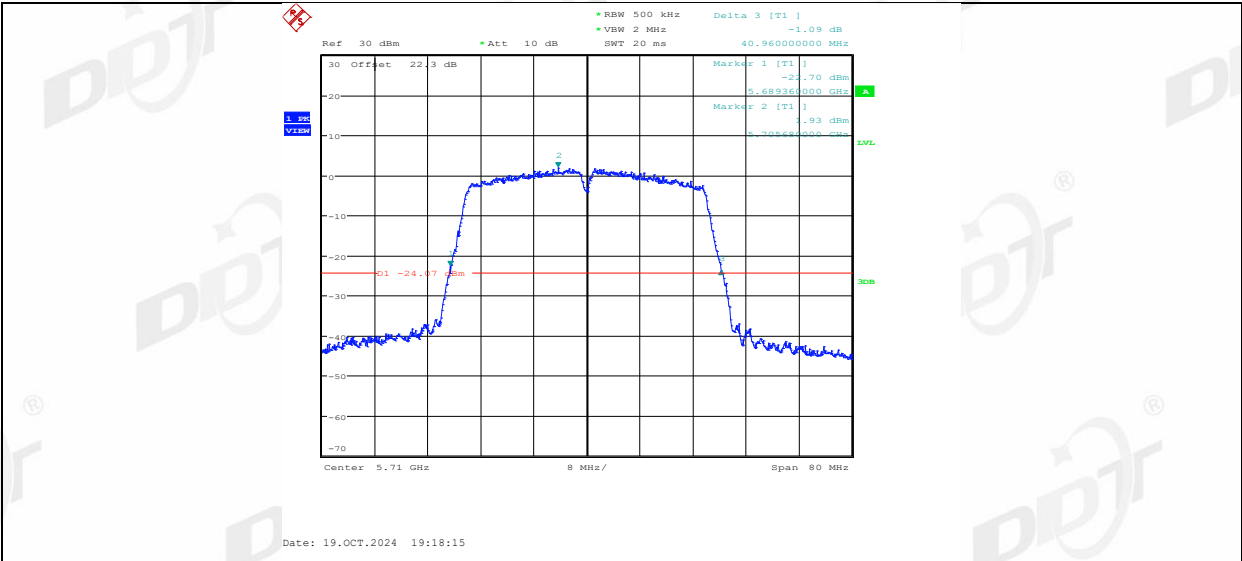
11N40MIMO_Ant1_5670

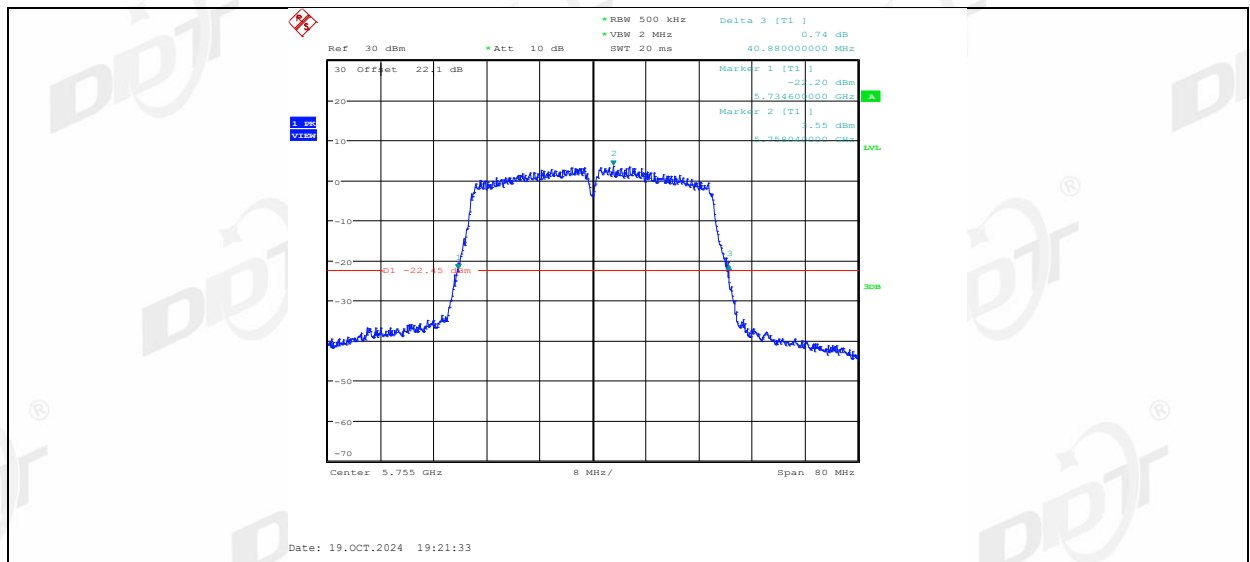


11N40MIMO_Ant2_5670

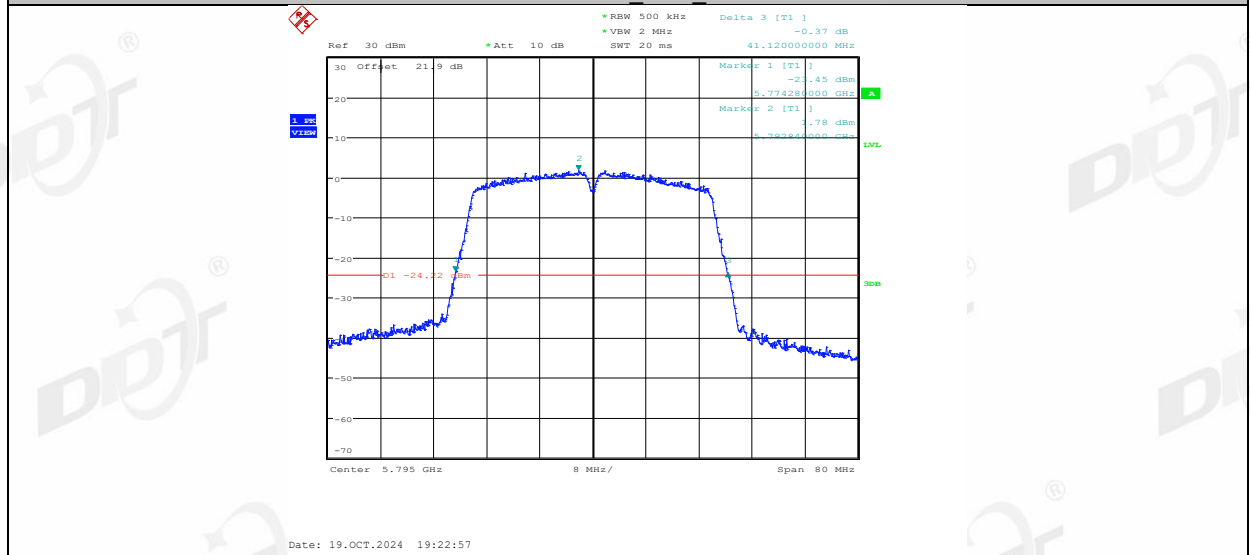


11N40MIMO_Ant1_5710

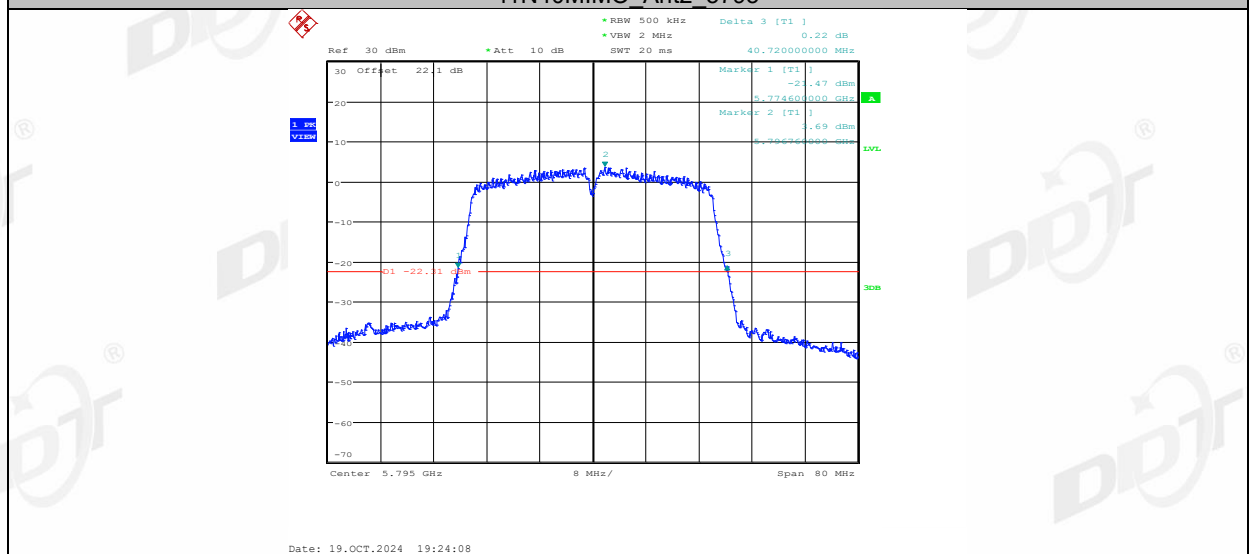




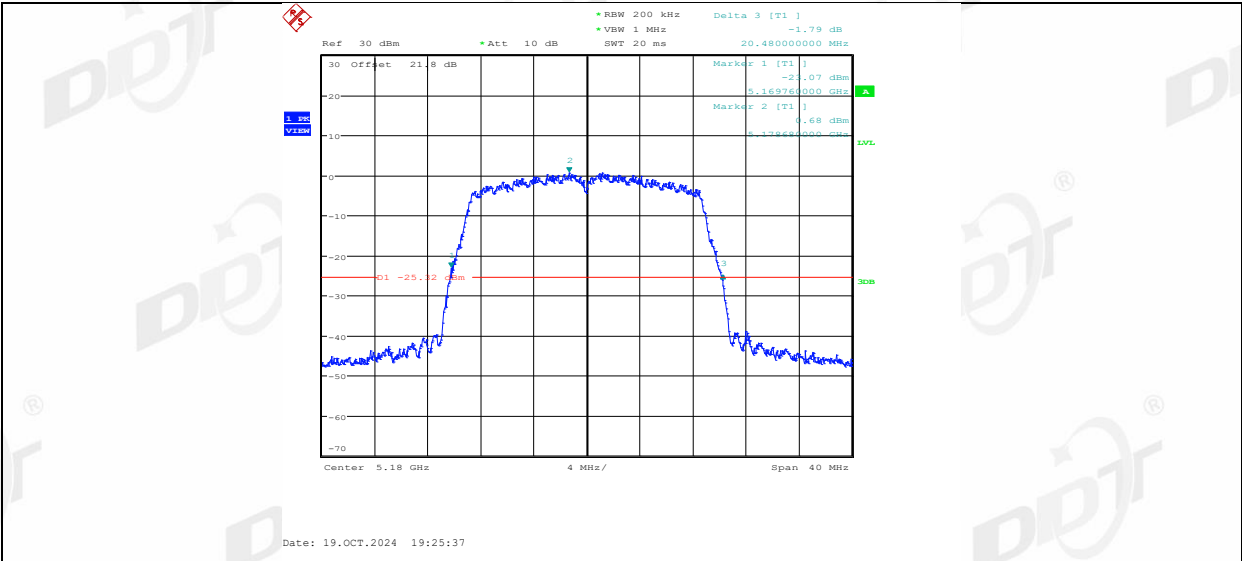
11N40MIMO_Ant1_5795



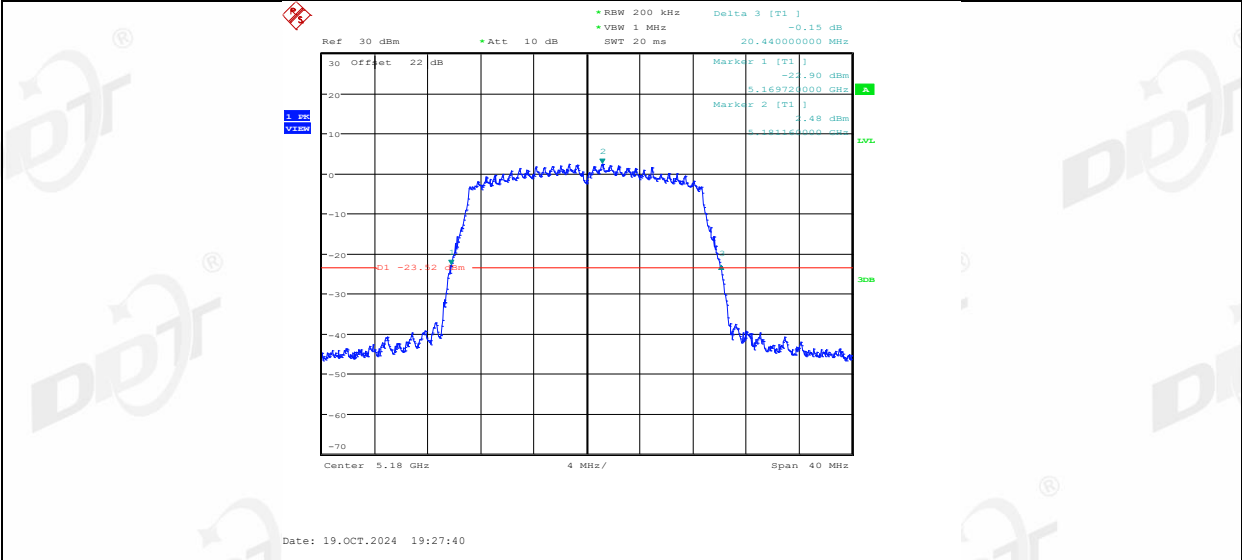
11N40MIMO_Ant2_5795



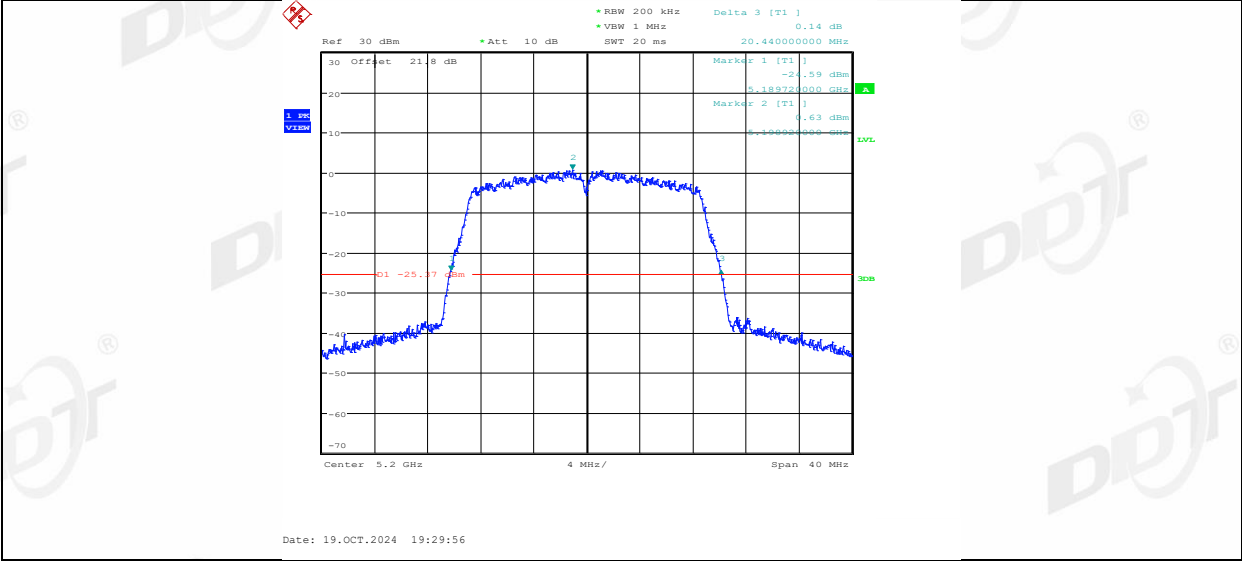
11AC20MIMO_Ant1_5180



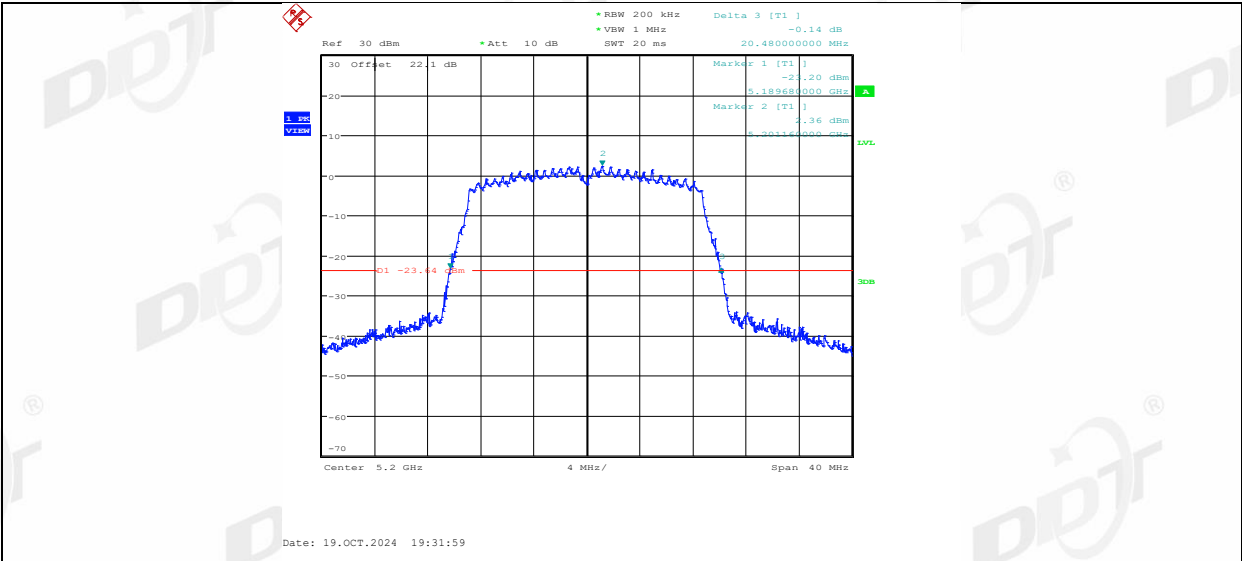
11AC20MIMO_Ant2_5180



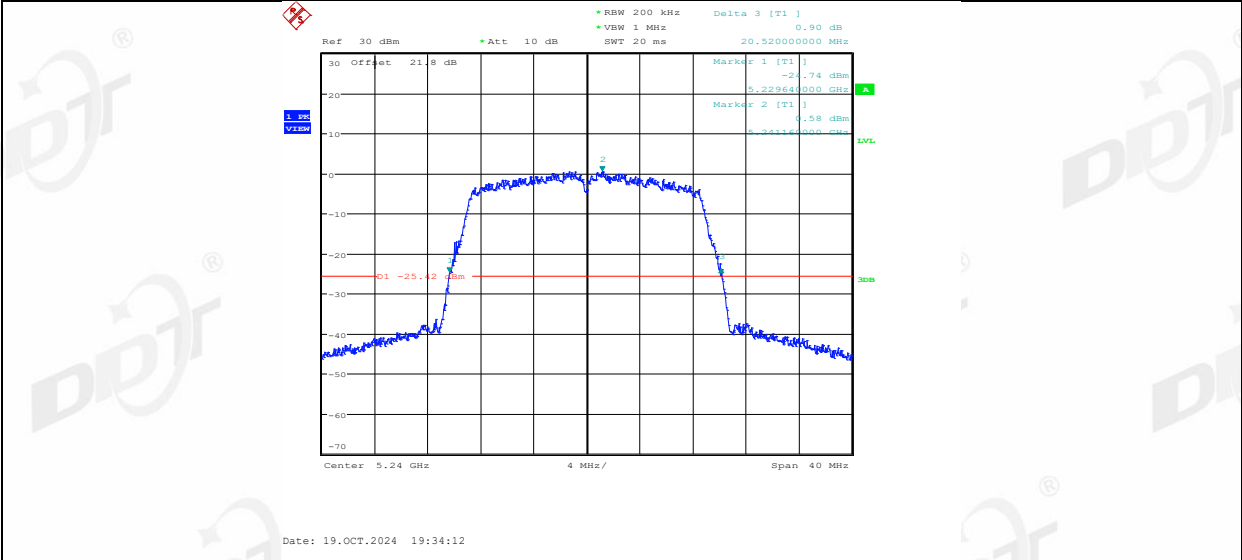
11AC20MIMO_Ant1_5200



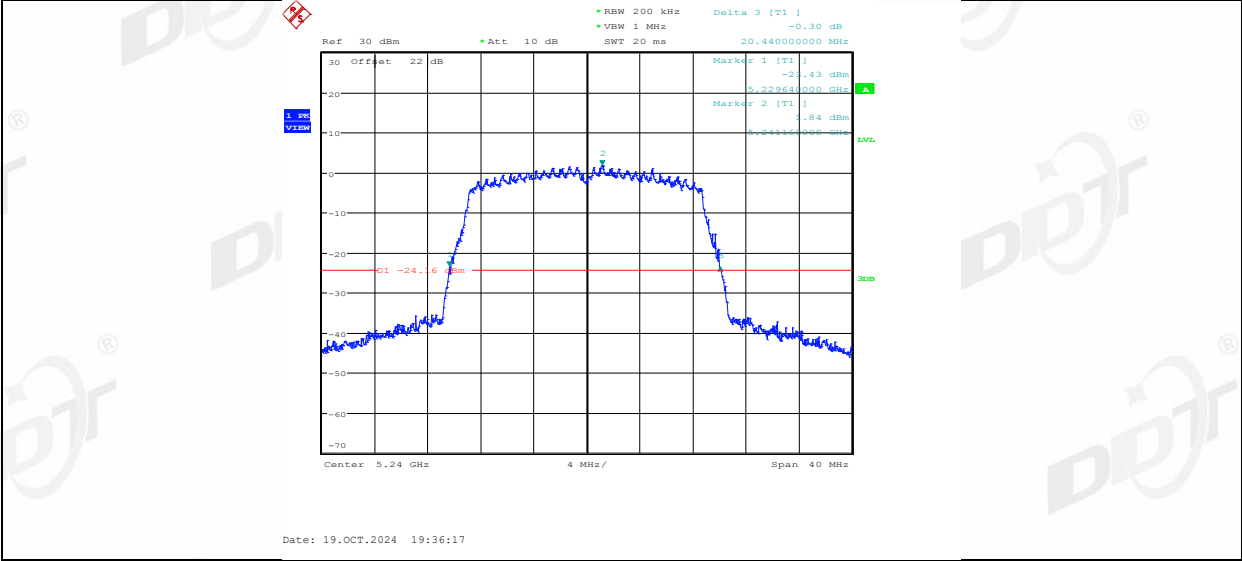
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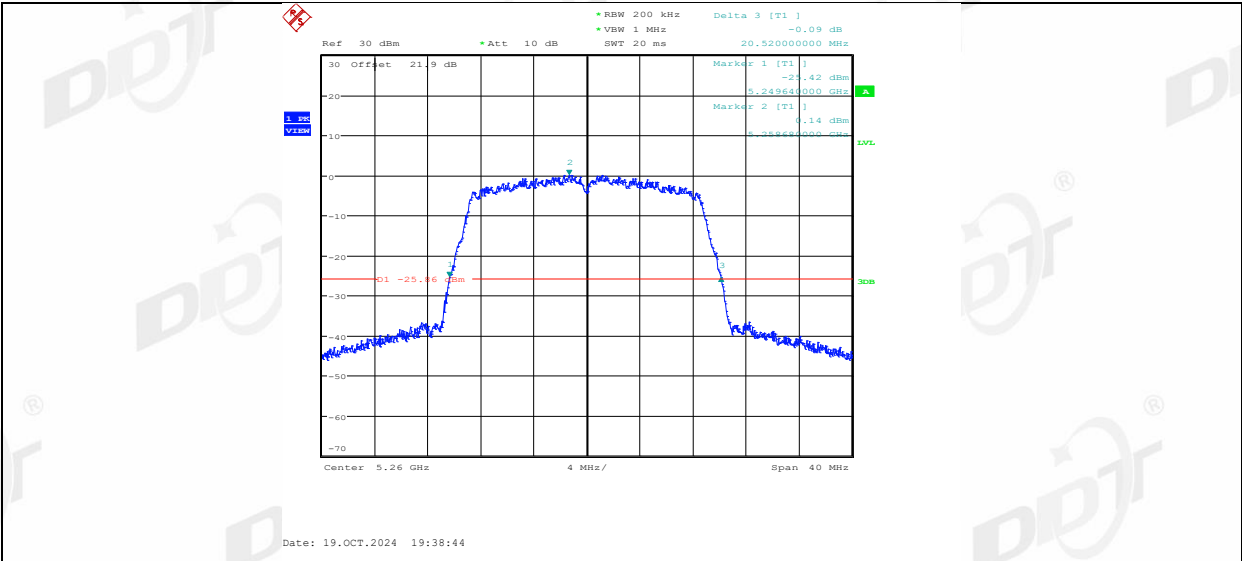
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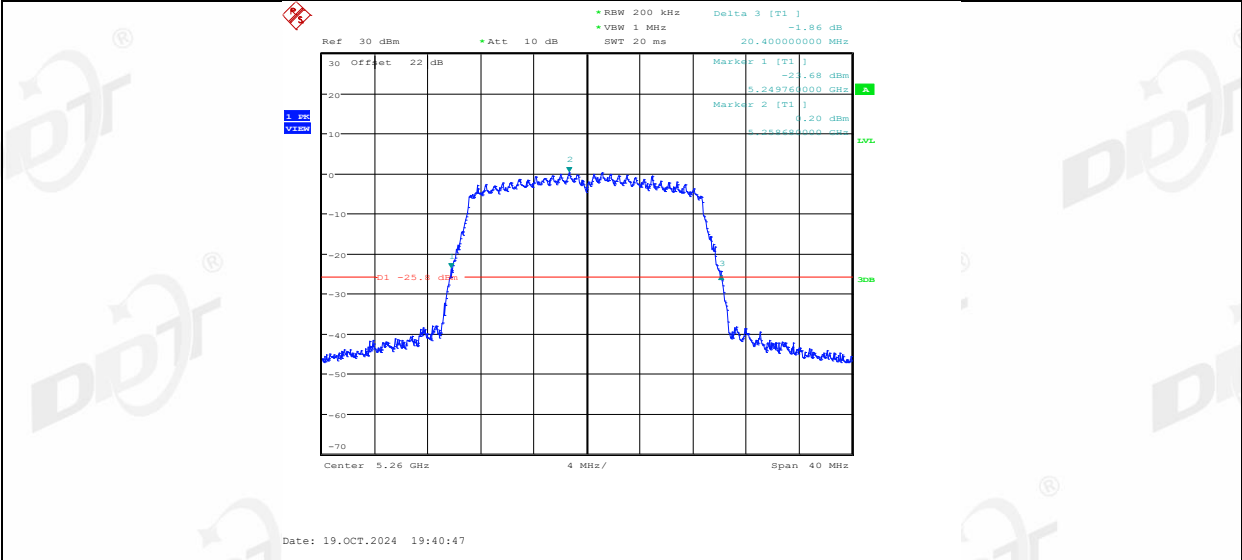
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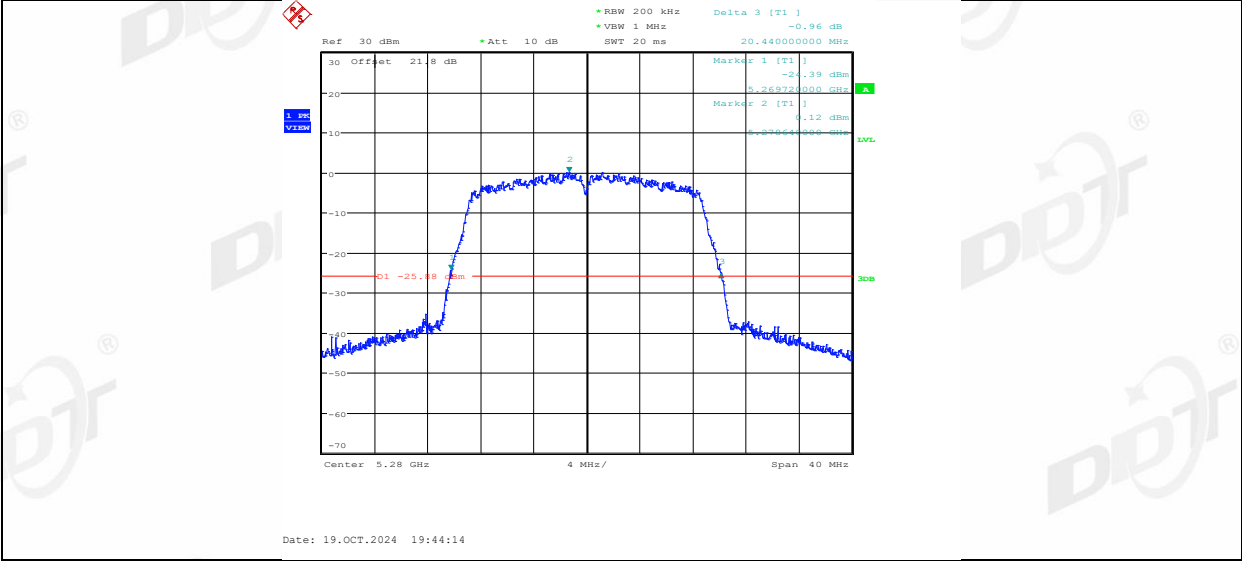
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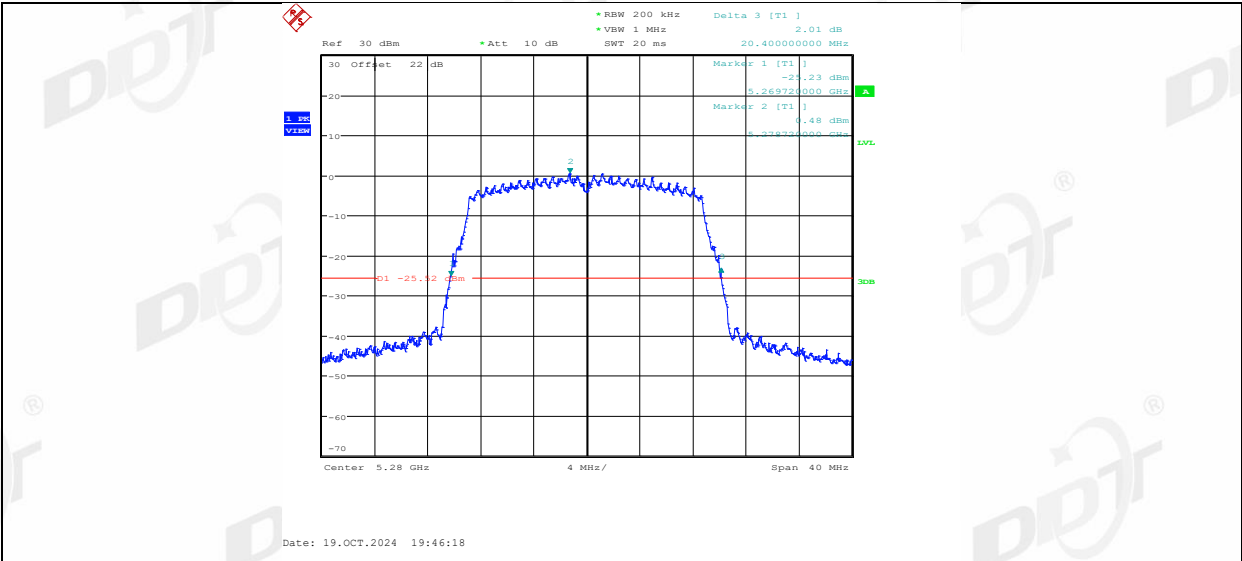
11AC20MIMO_Ant2_5260



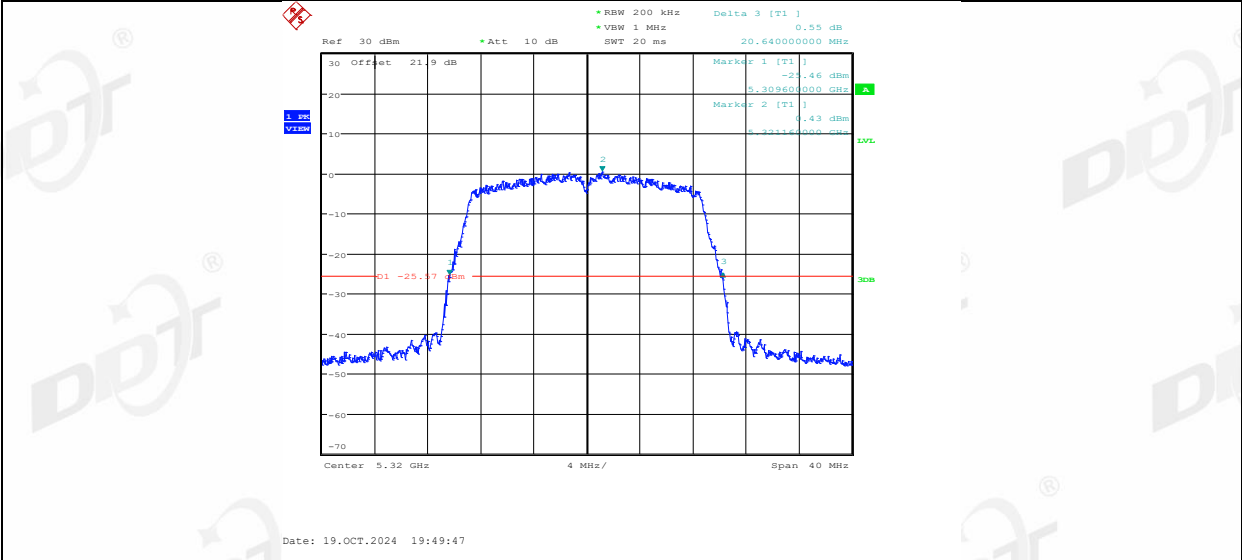
11AC20MIMO_Ant1_5280



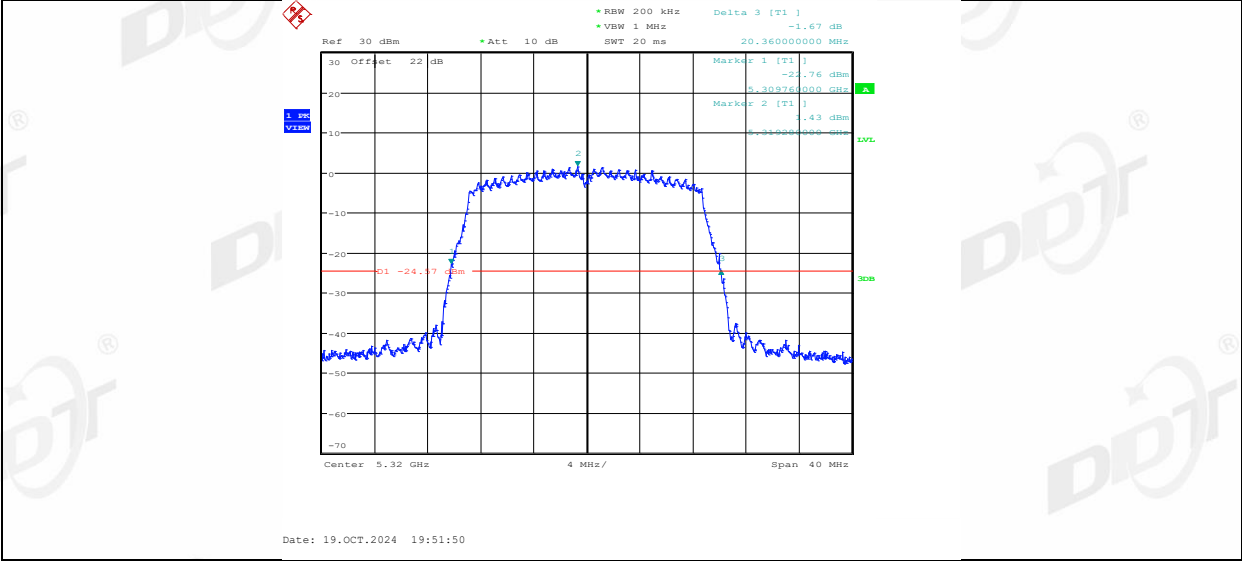
11AC20MIMO_Ant2_5280



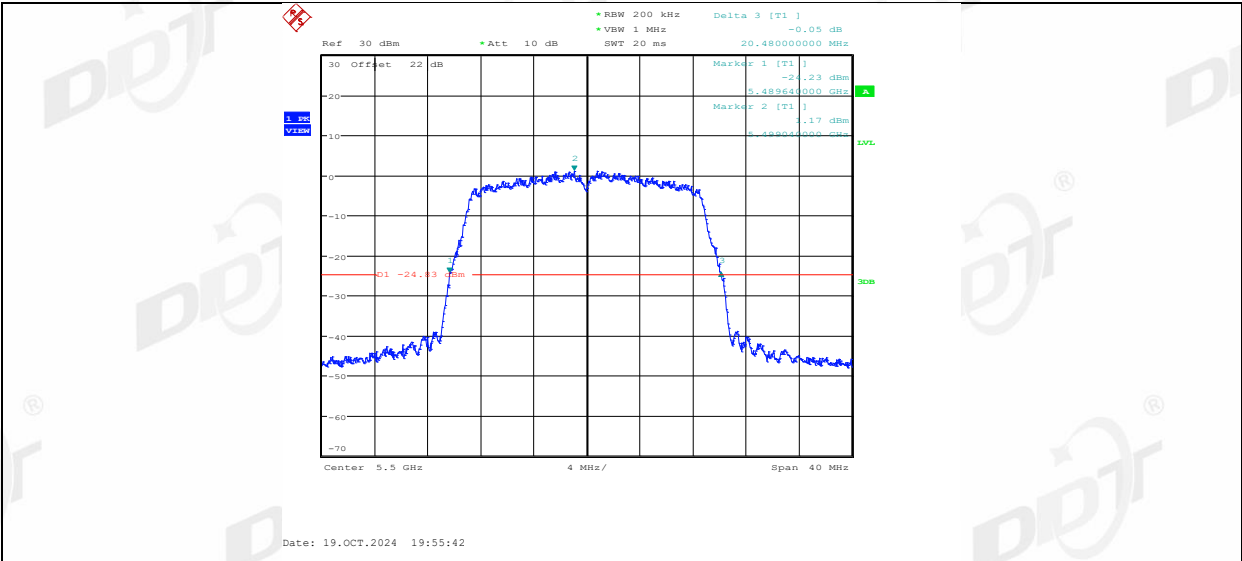
11AC20MIMO_Ant1_5320



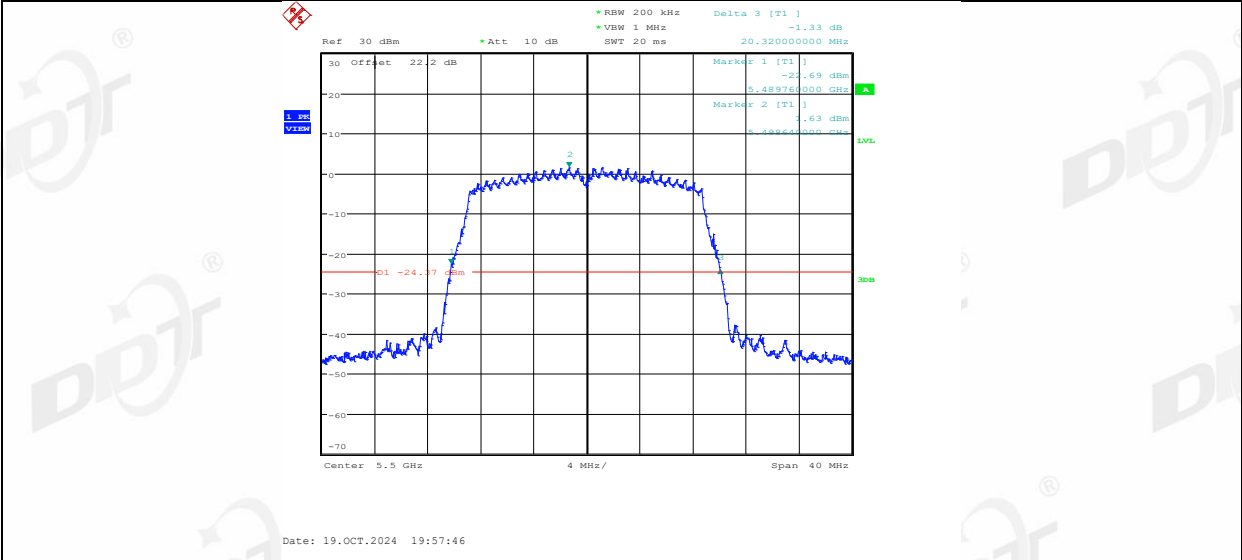
11AC20MIMO_Ant2_5320



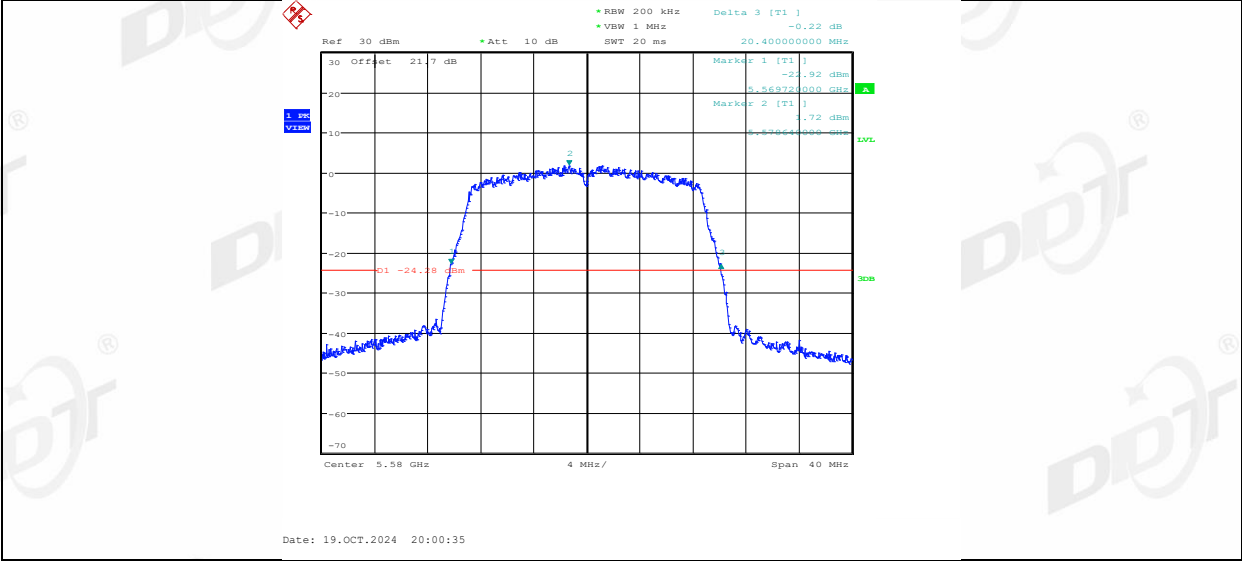
11AC20MIMO_Ant1_5500



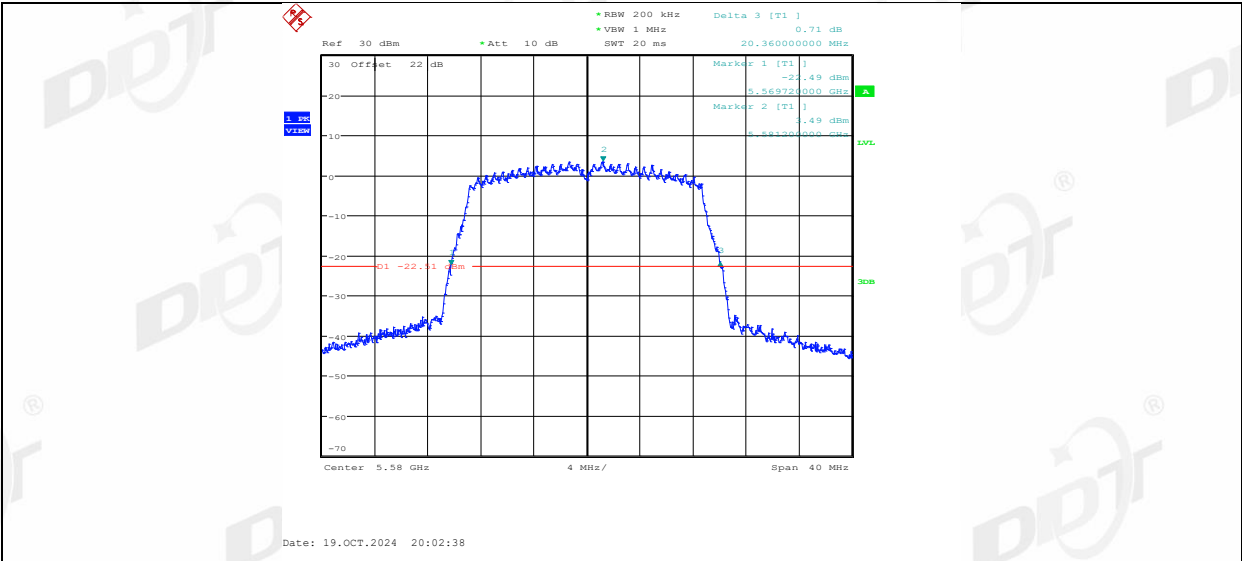
11AC20MIMO_Ant2_5500



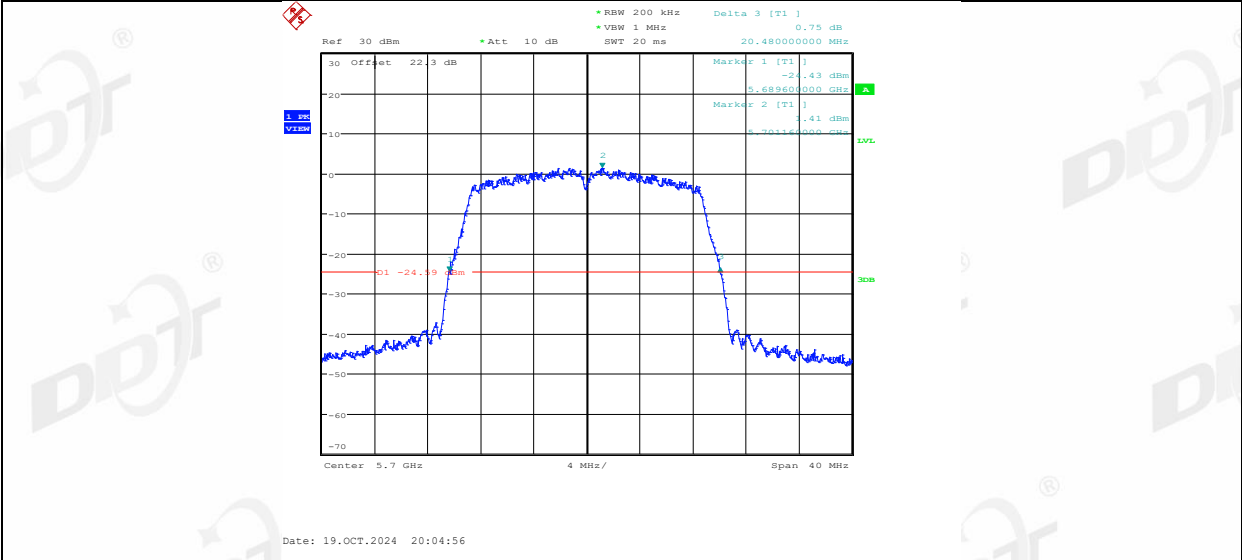
11AC20MIMO_Ant1_5580



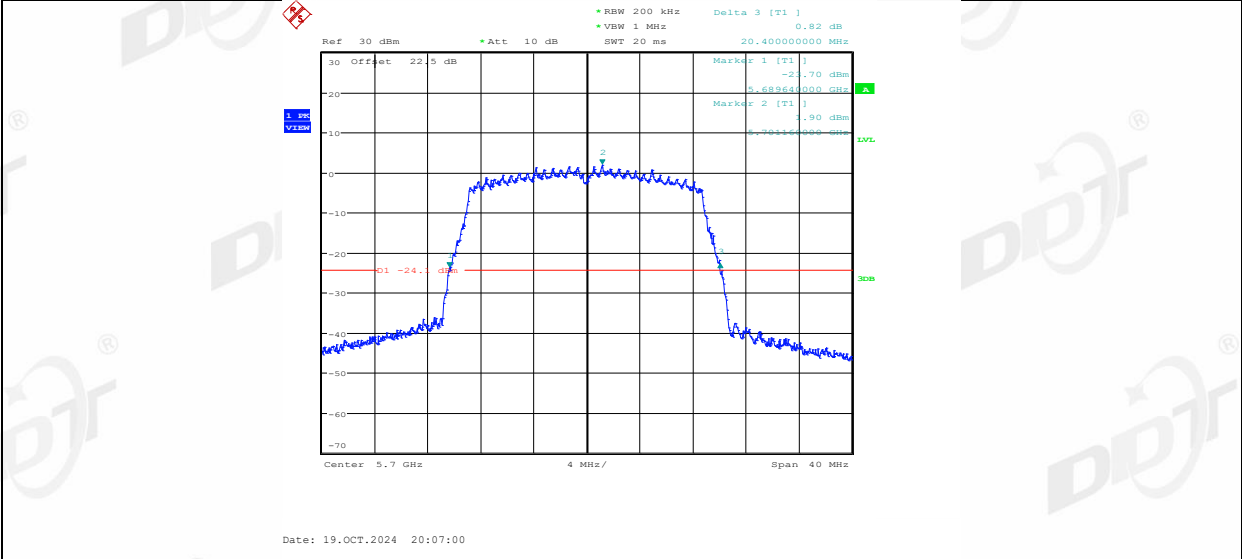
11AC20MIMO_Ant2_5580



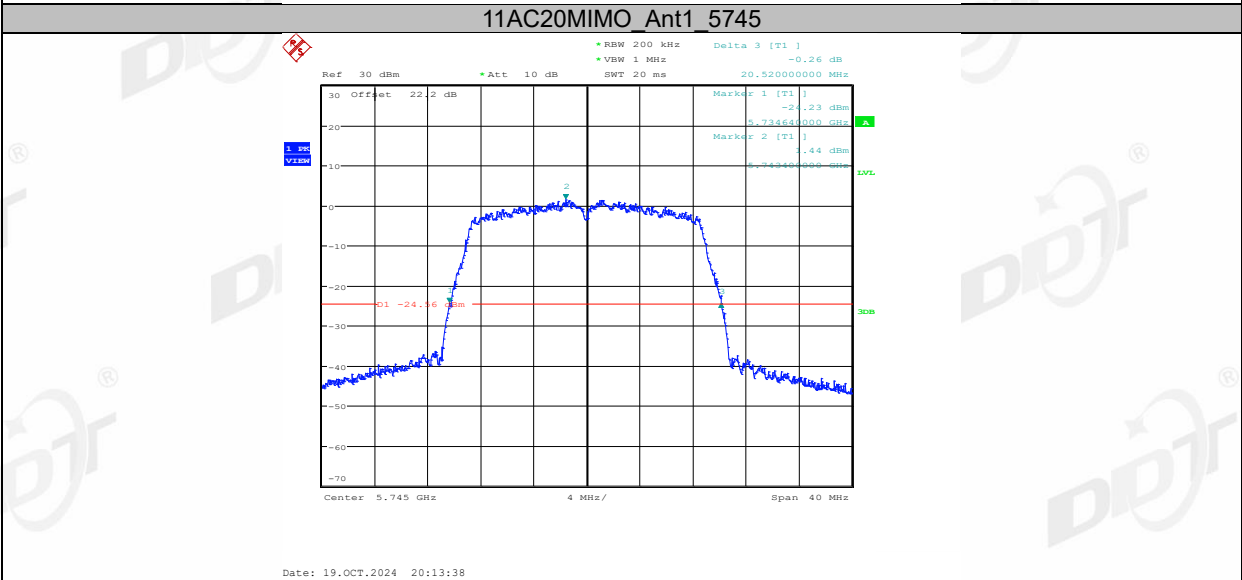
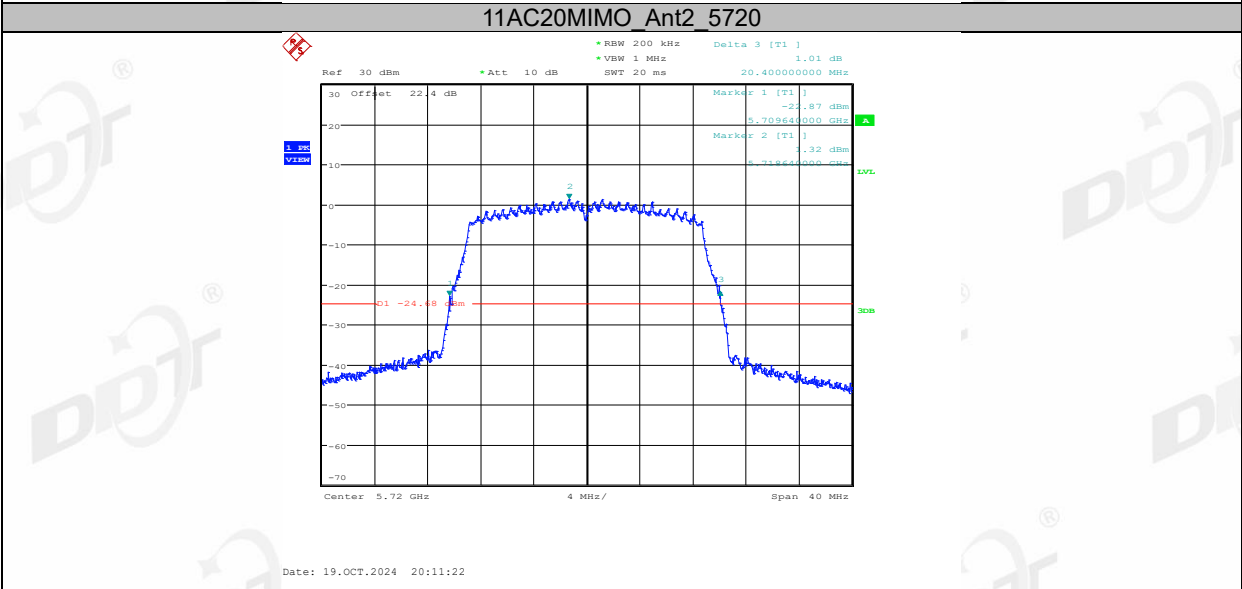
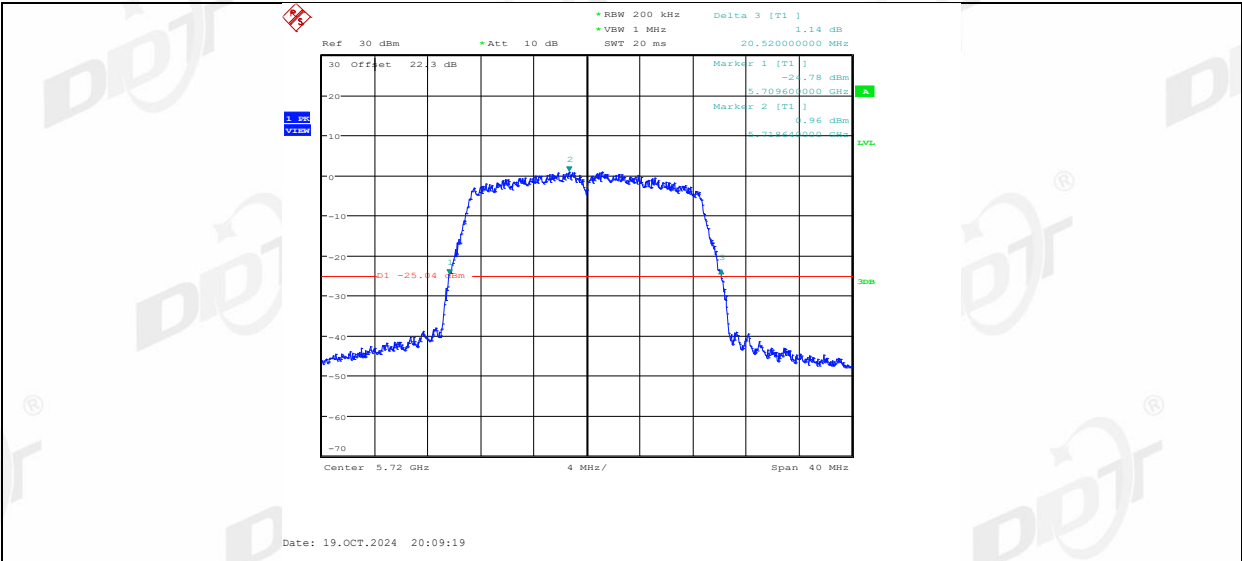
11AC20MIMO_Ant1_5700

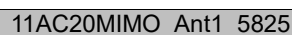
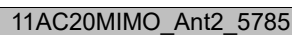


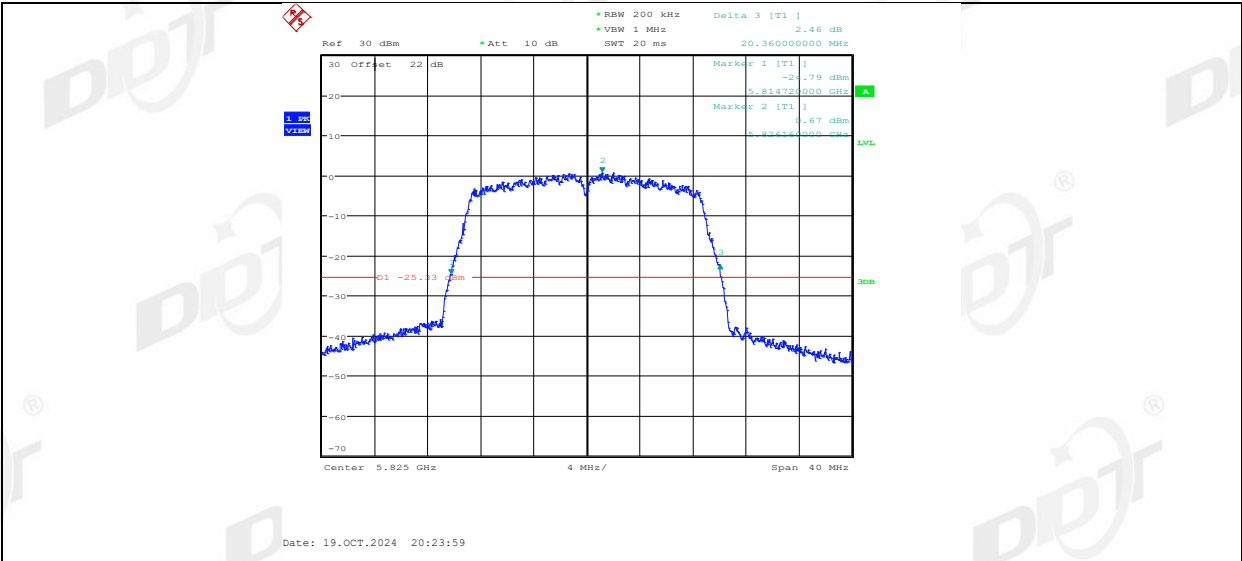
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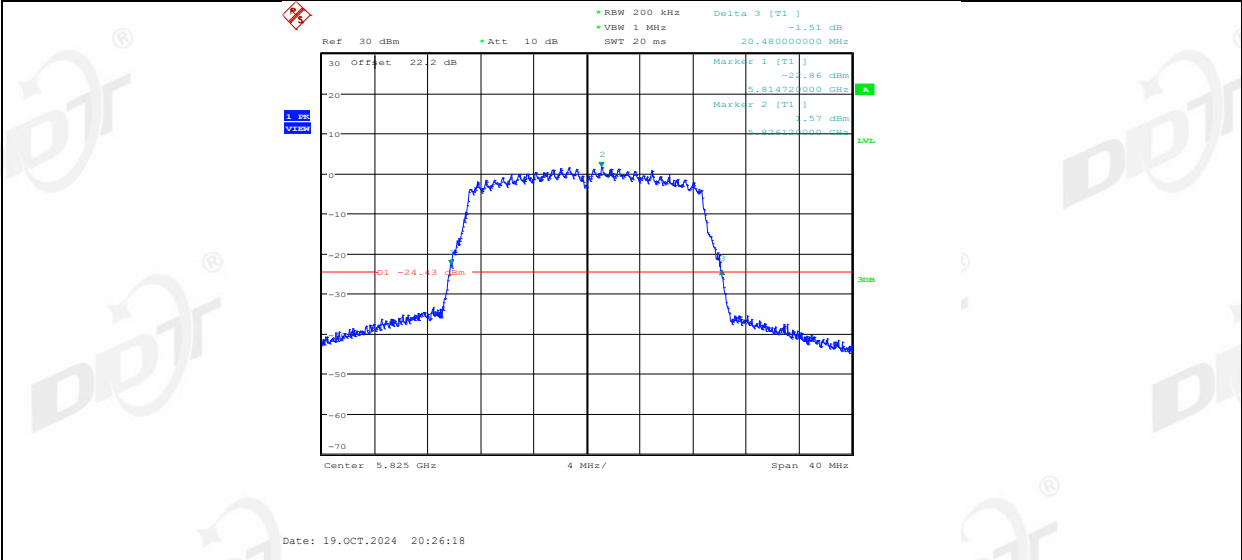
11AC20MIMO_Ant1_5720



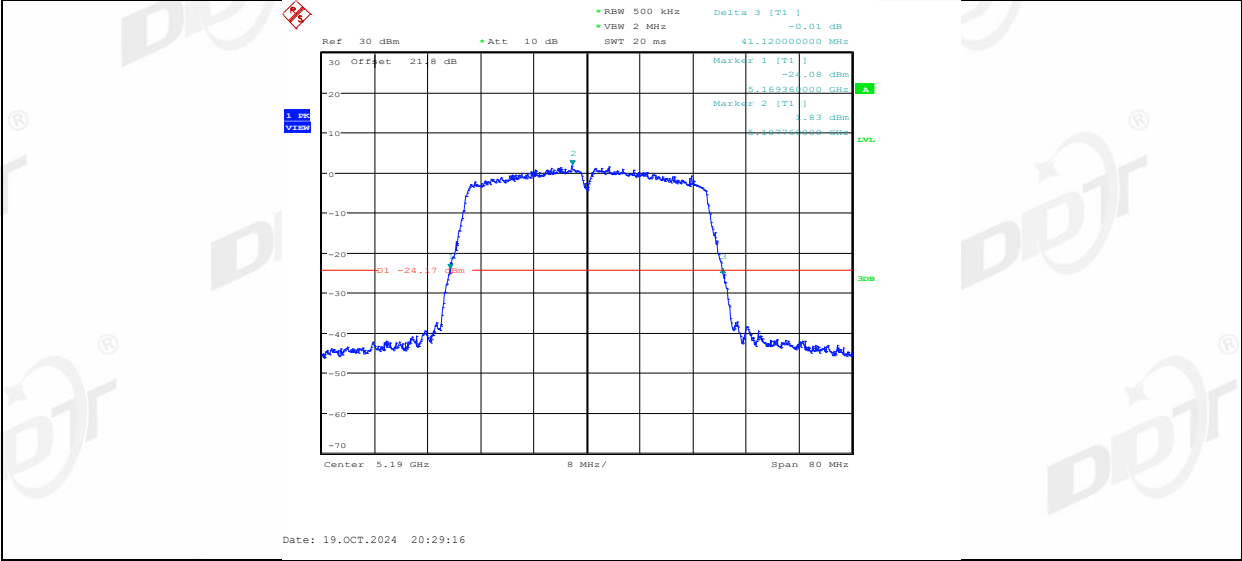




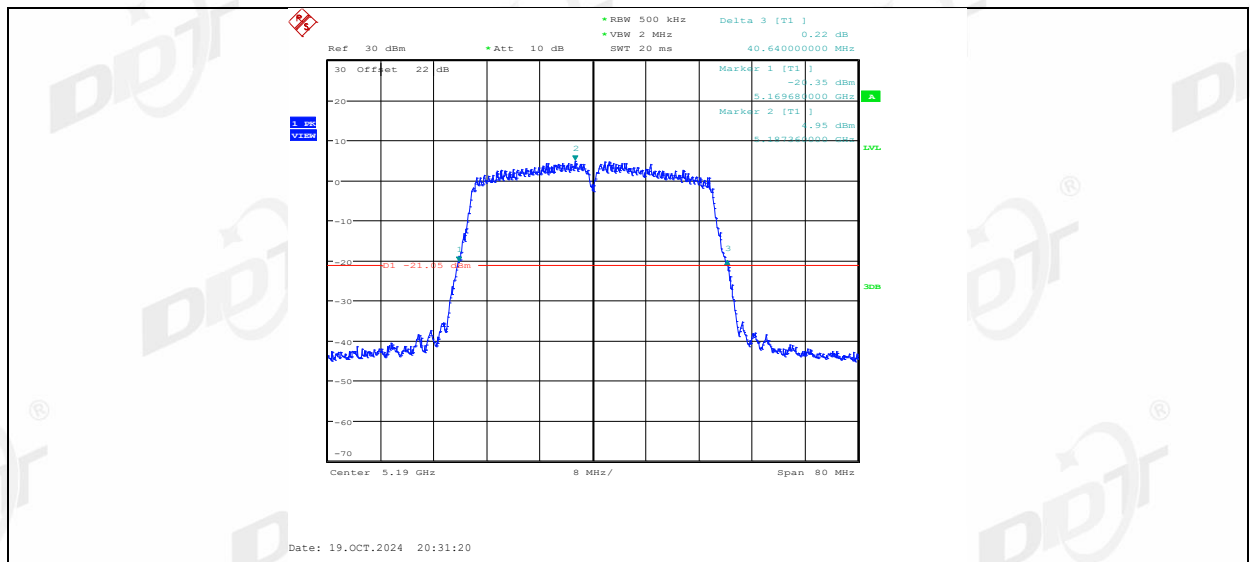
11AC20MIMO_Ant2_5825



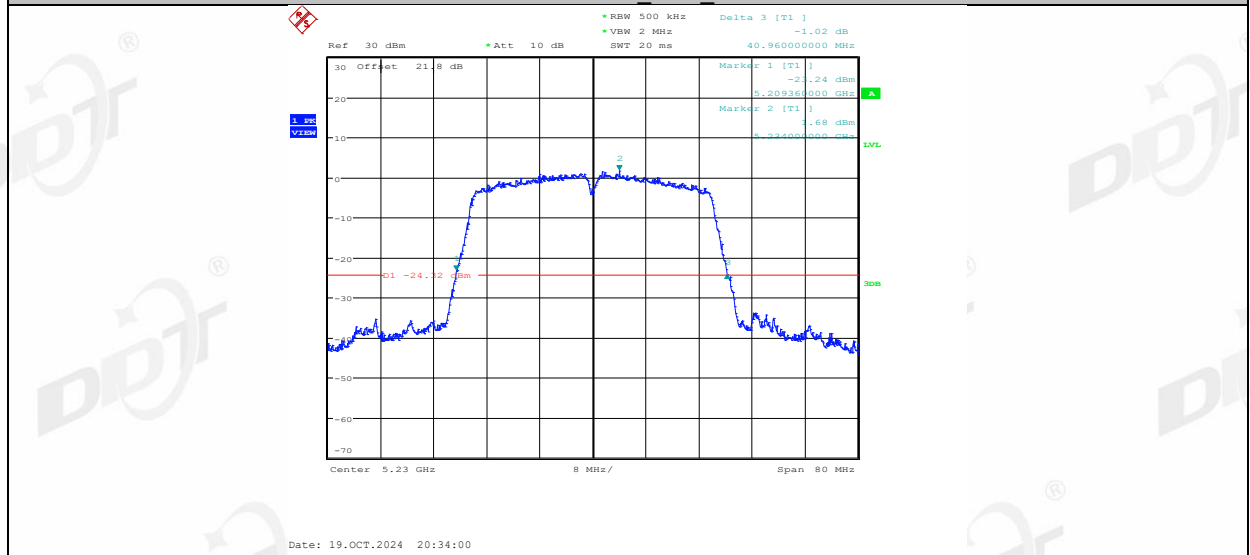
11AC40MIMO_Ant1_5190



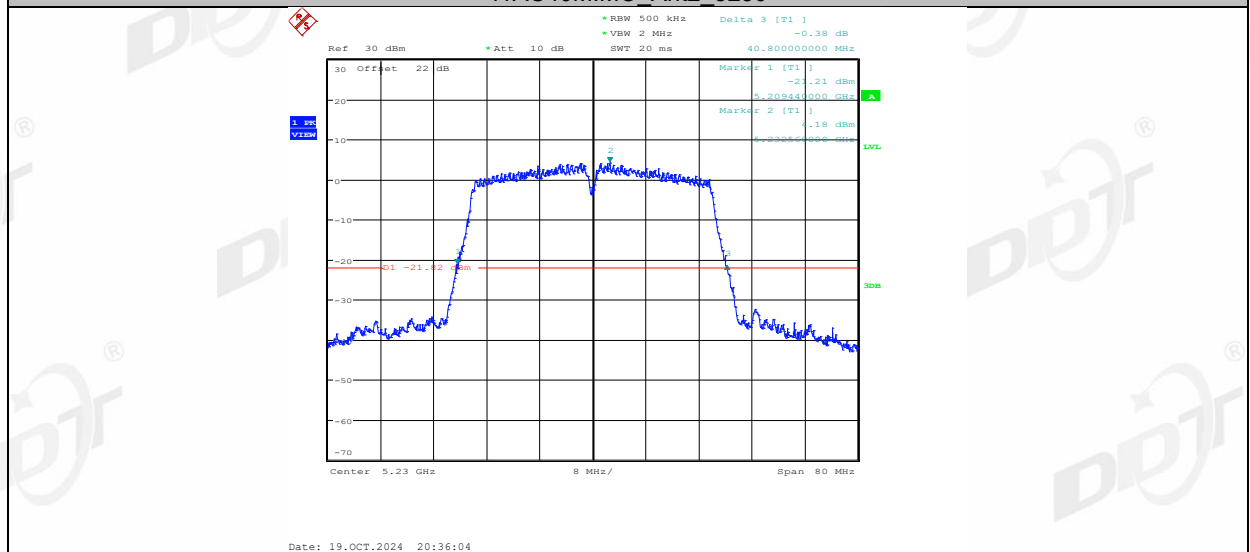
11AC40MIMO_Ant2_5190



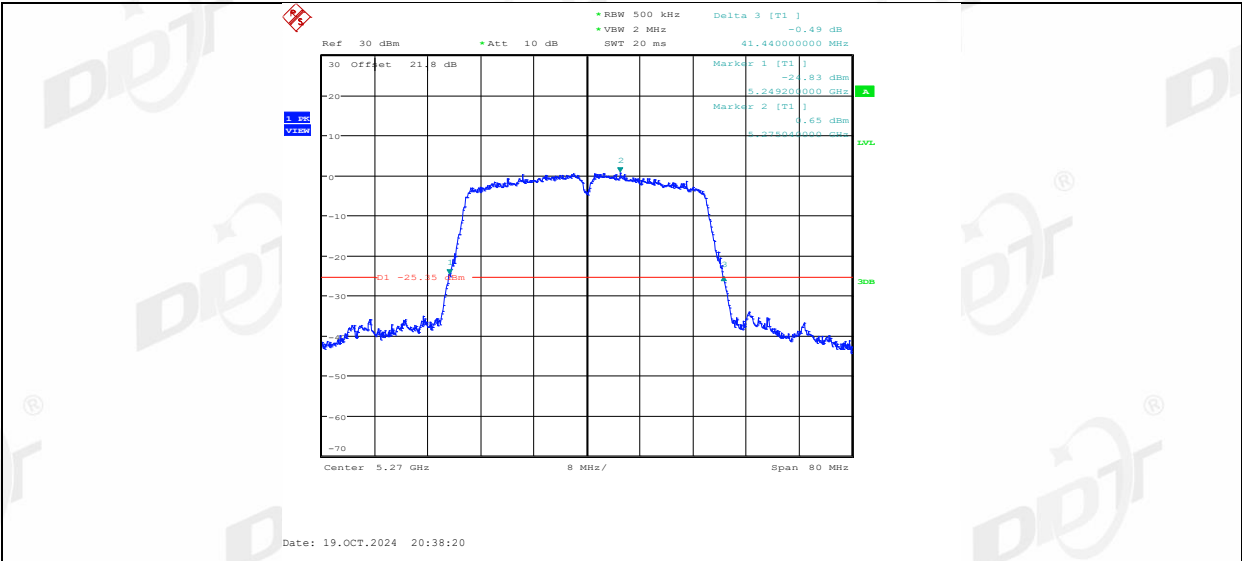
11AC40MIMO_Ant1_5230



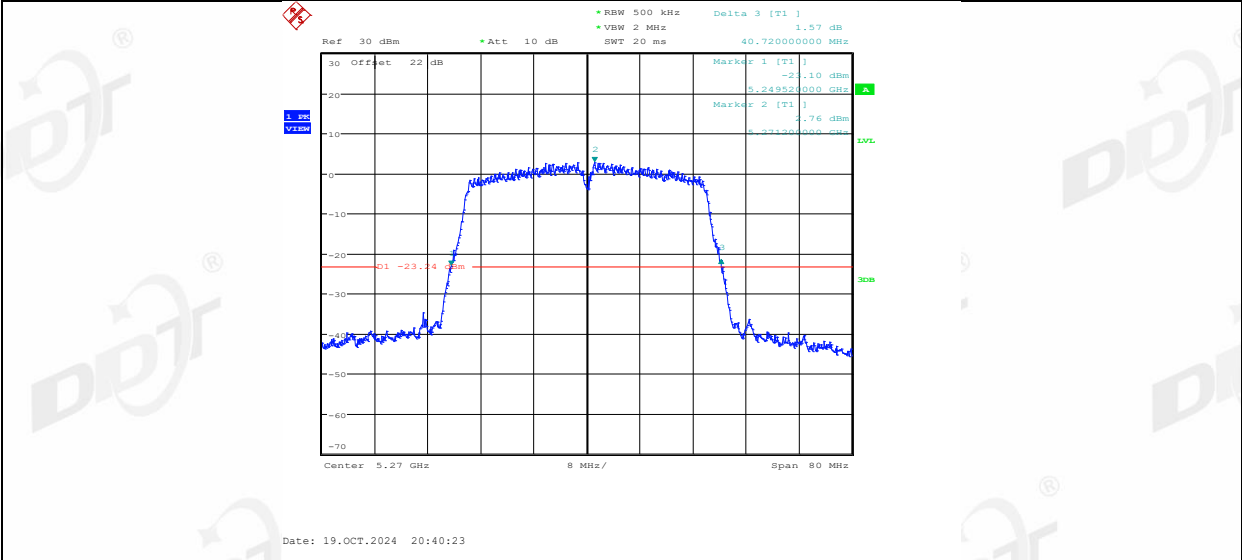
11AC40MIMO_Ant2_5230



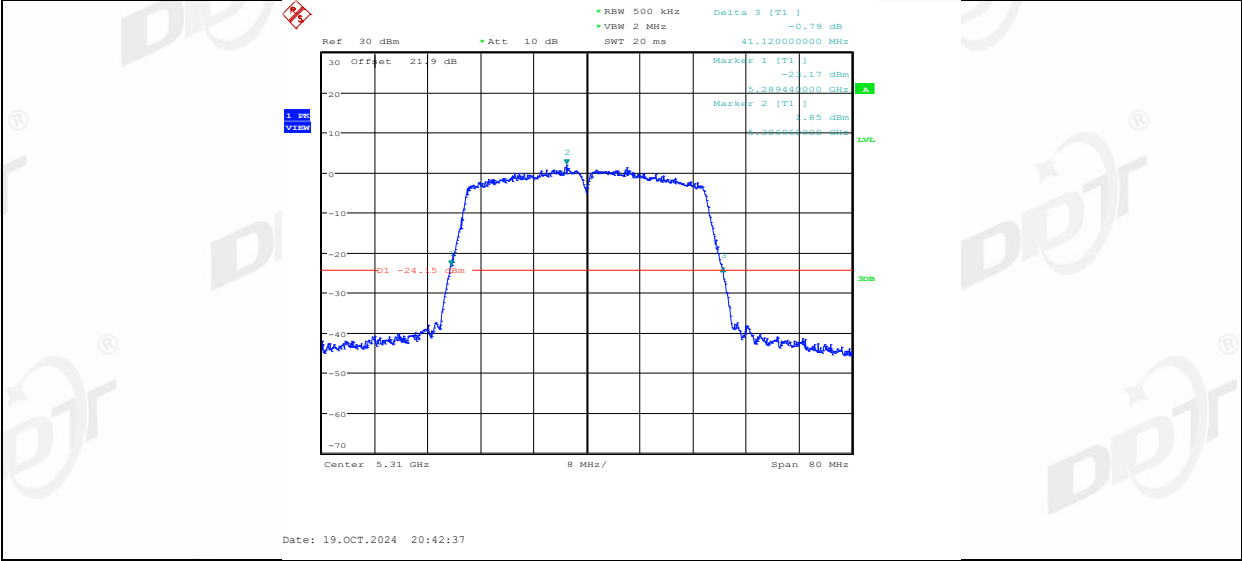
11AC40MIMO_Ant1_5270



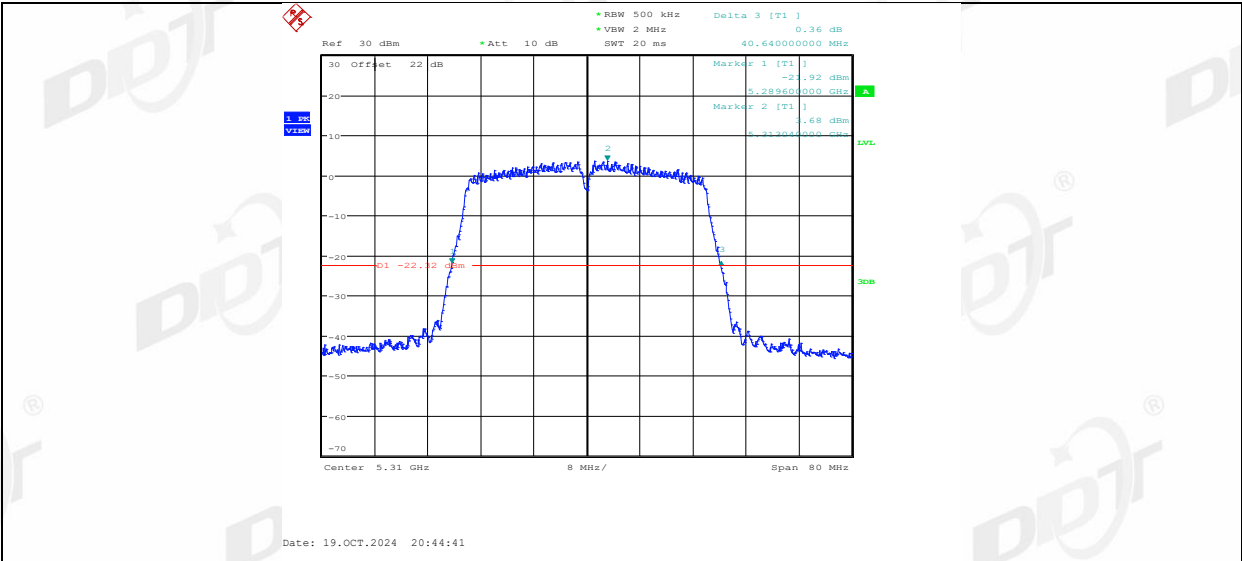
11AC40MIMO_Ant2_5270



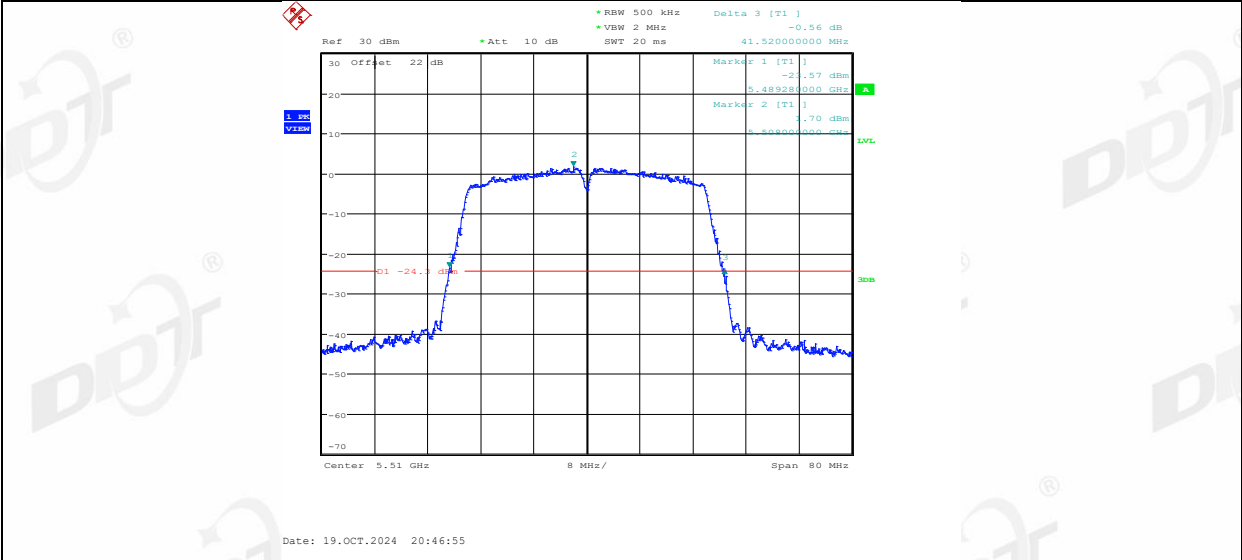
11AC40MIMO_Ant1_5310



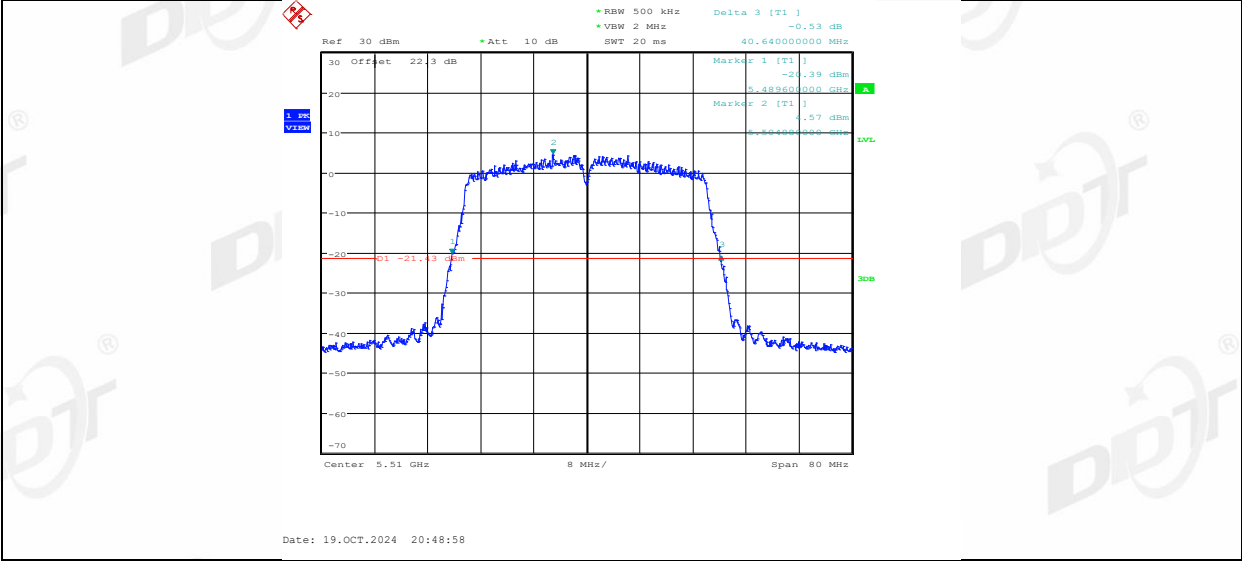
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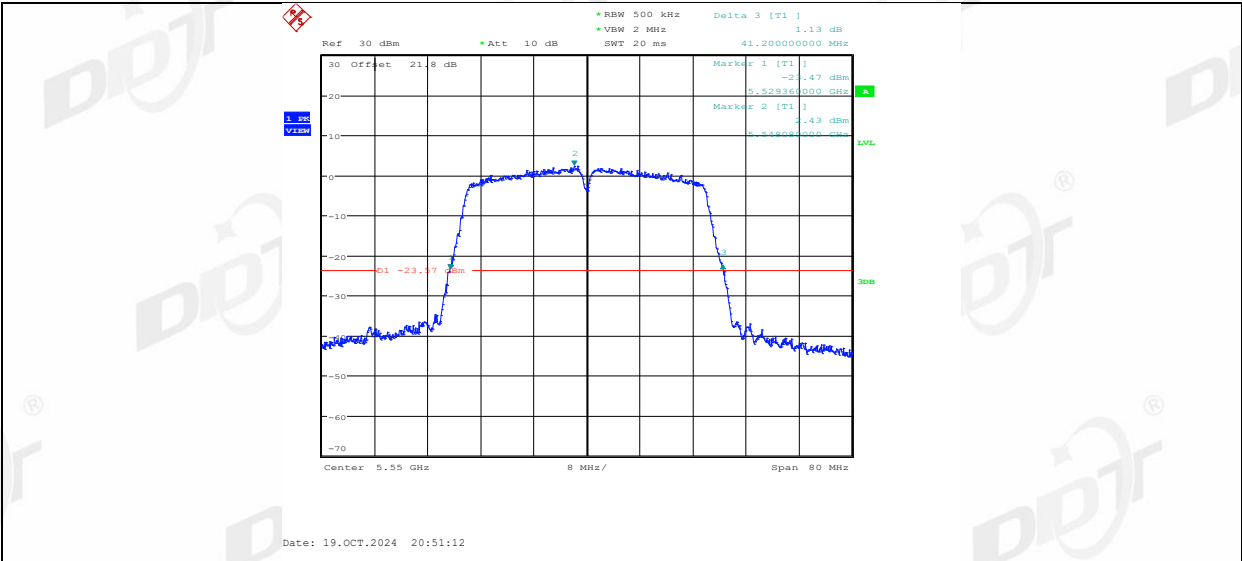
11AC40MIMO_Ant1_5510



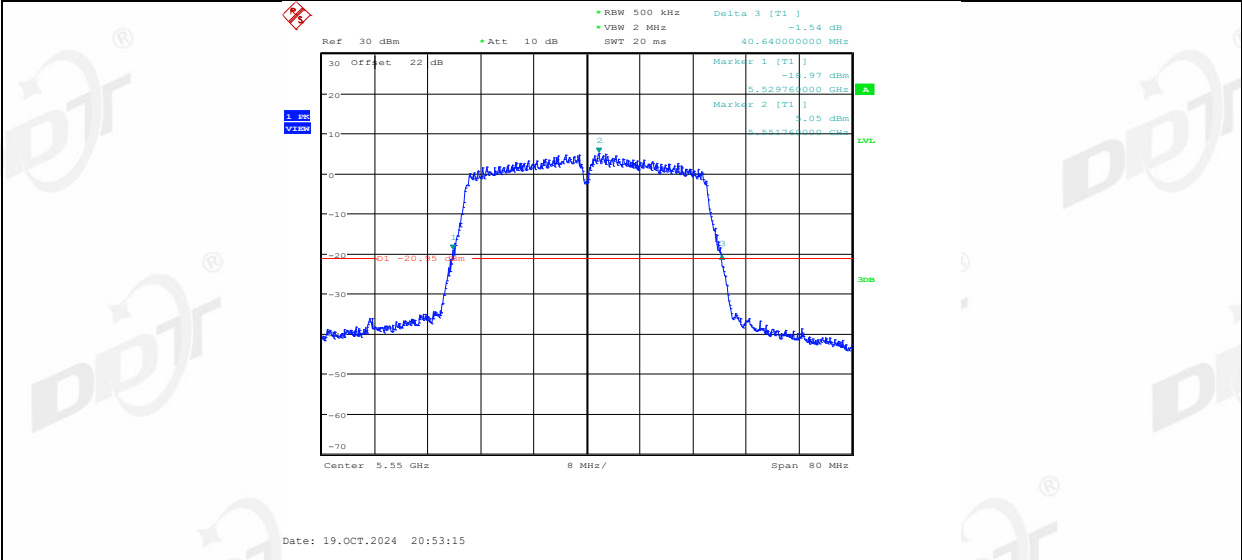
11AC40MIMO_Ant2_5510



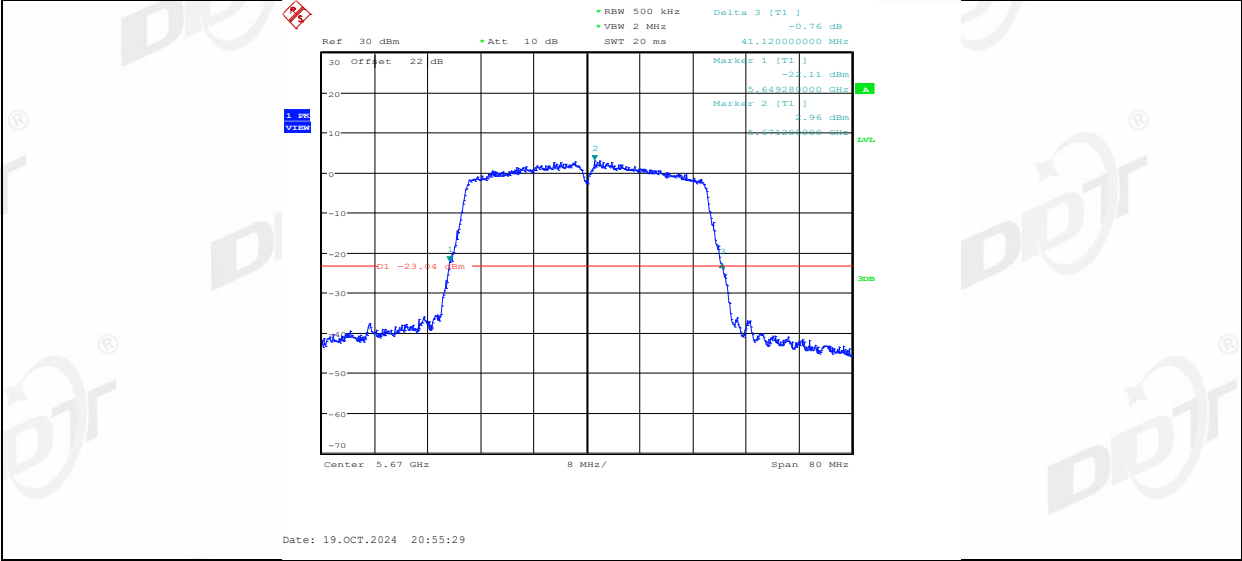
11AC40MIMO_Ant1_5550



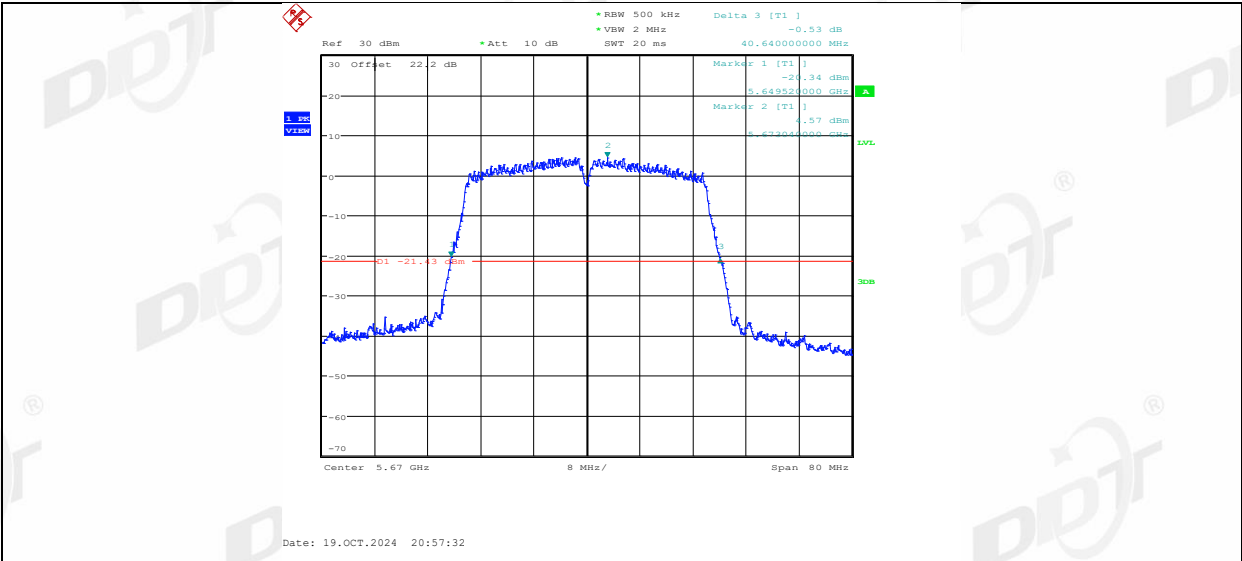
11AC40MIMO_Ant2_5550



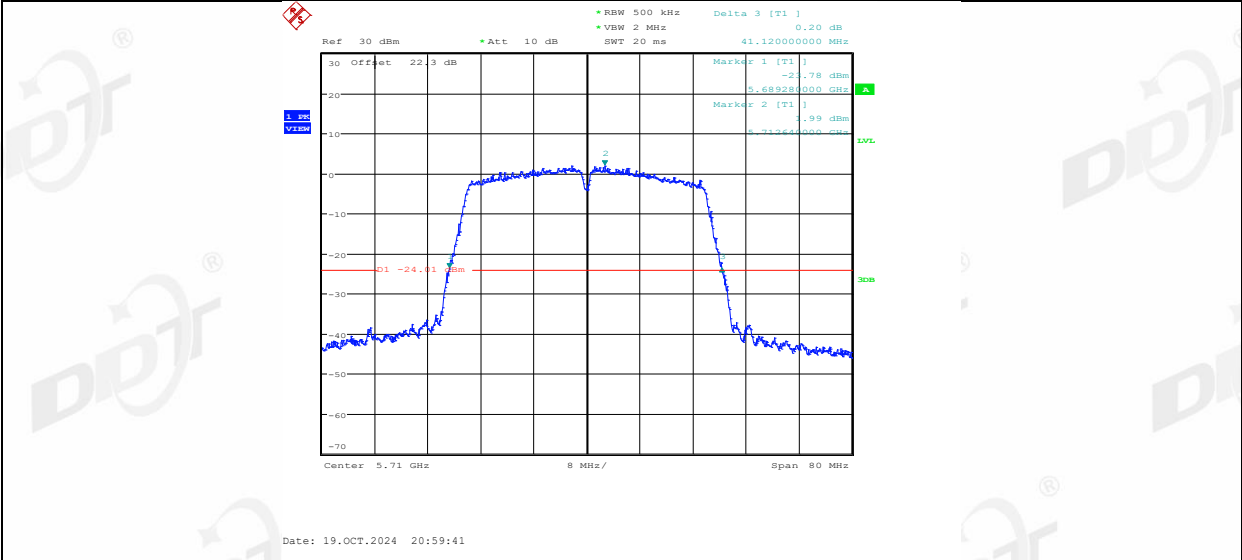
11AC40MIMO_Ant1_5670



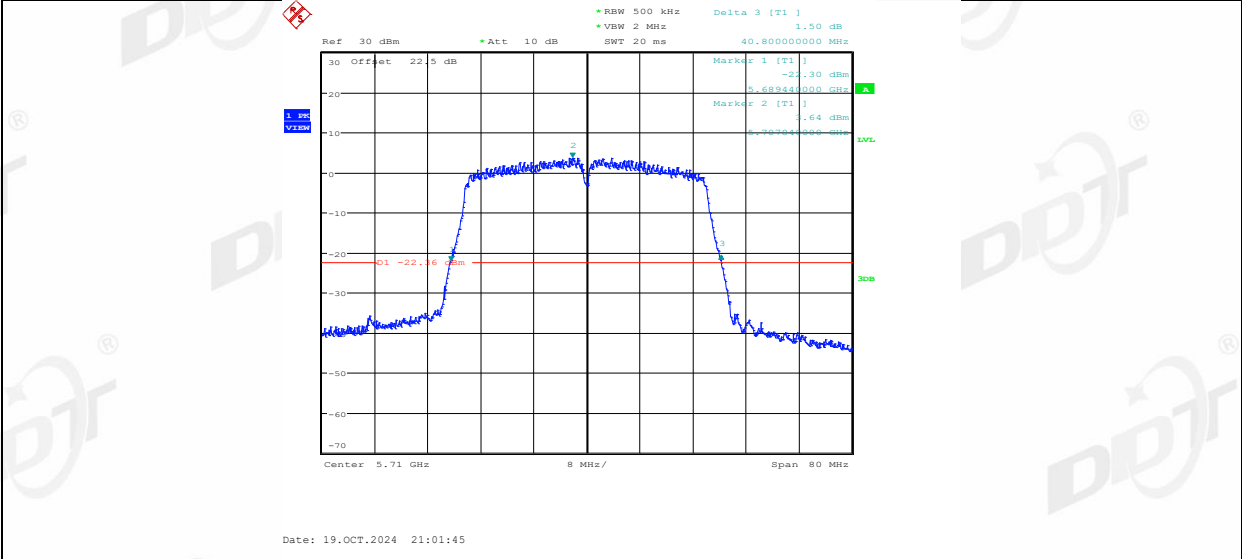
11AC40MIMO_Ant2_5670



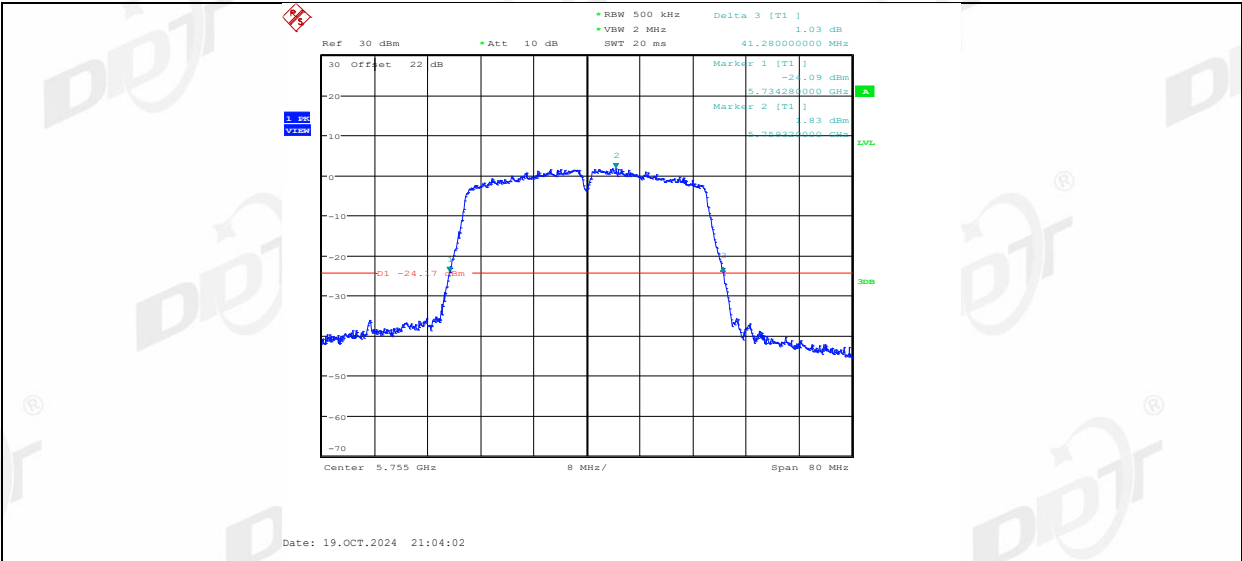
11AC40MIMO_Ant1_5710



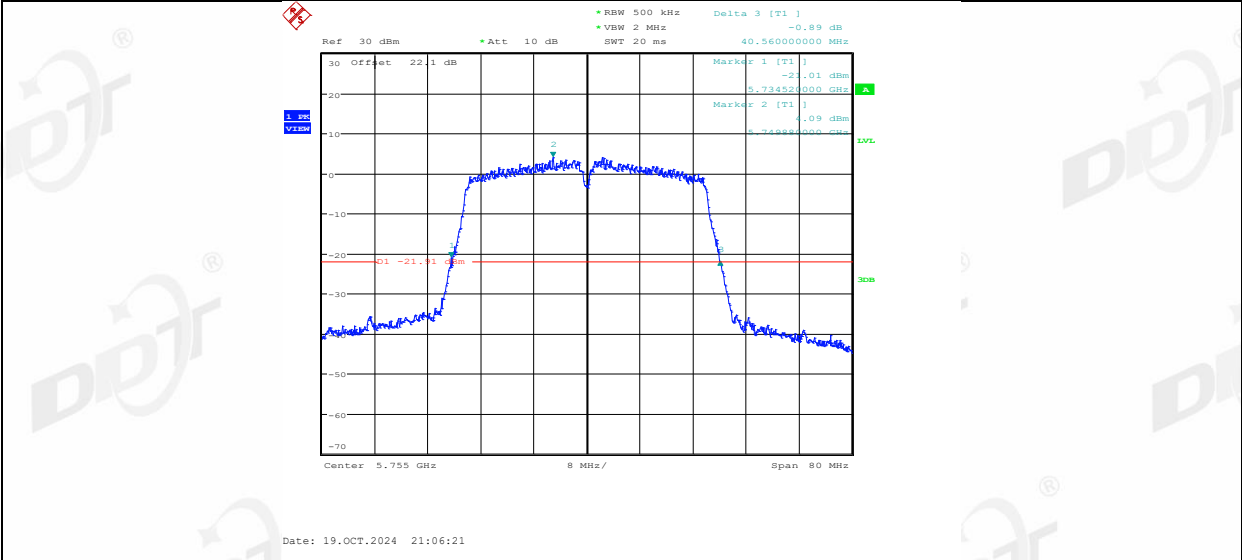
11AC40MIMO_Ant2_5710



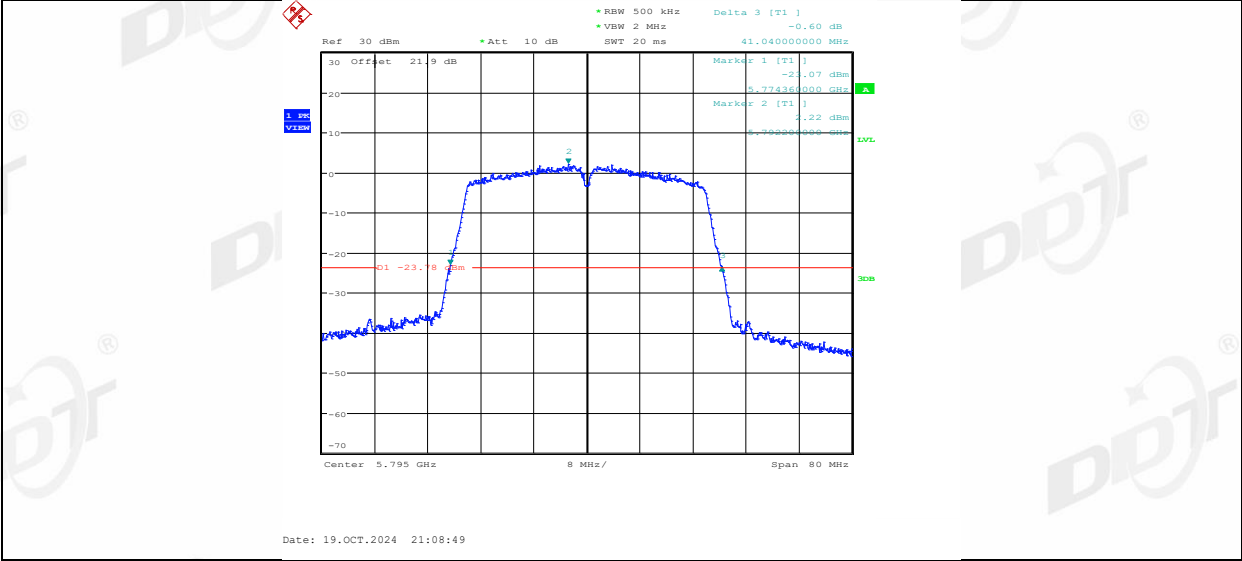
11AC40MIMO_Ant1_5755



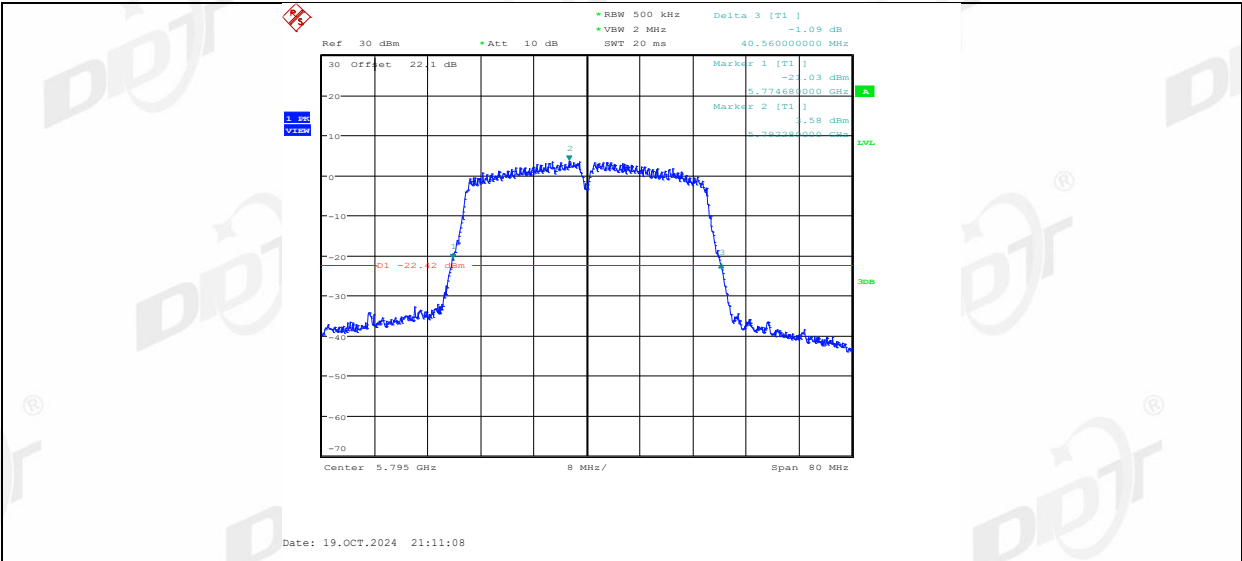
11AC40MIMO_Ant2_5755



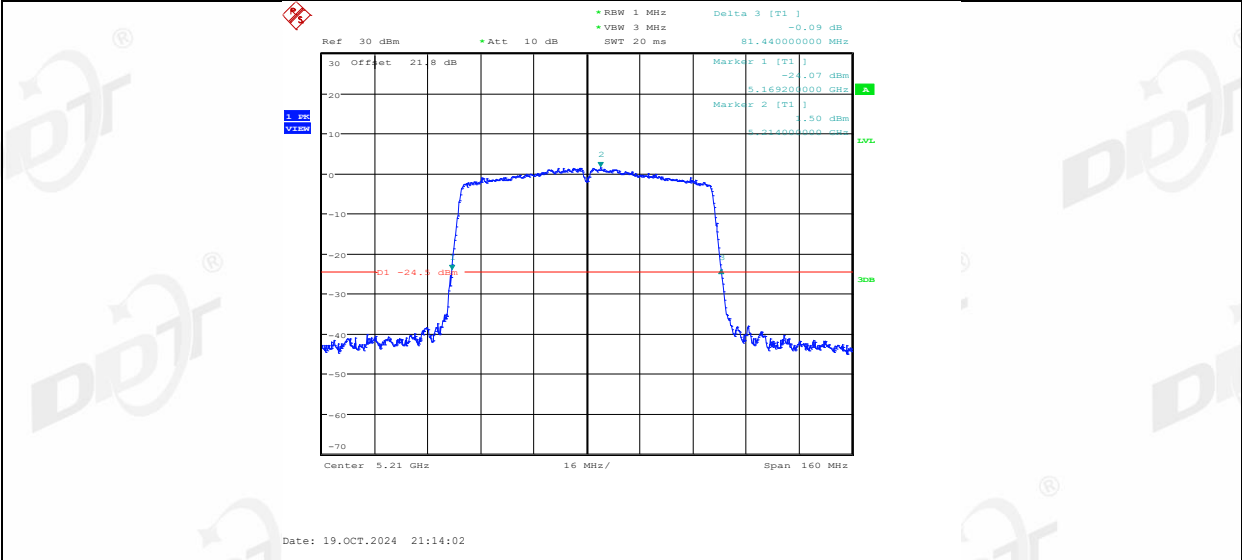
11AC40MIMO_Ant1_5795



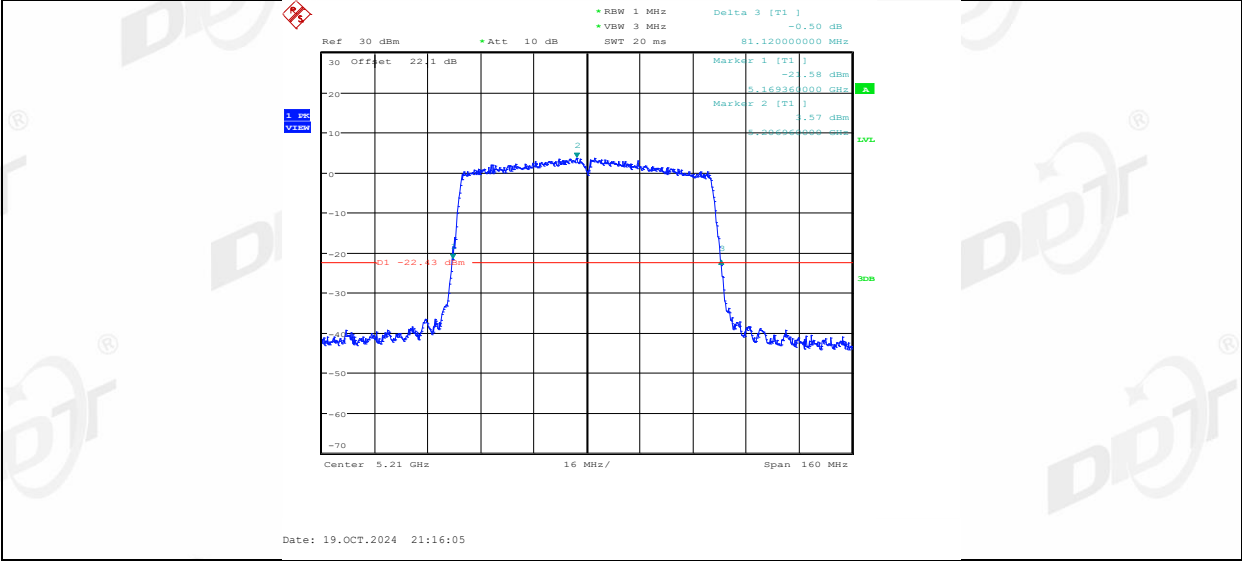
11AC40MIMO_Ant2_5795



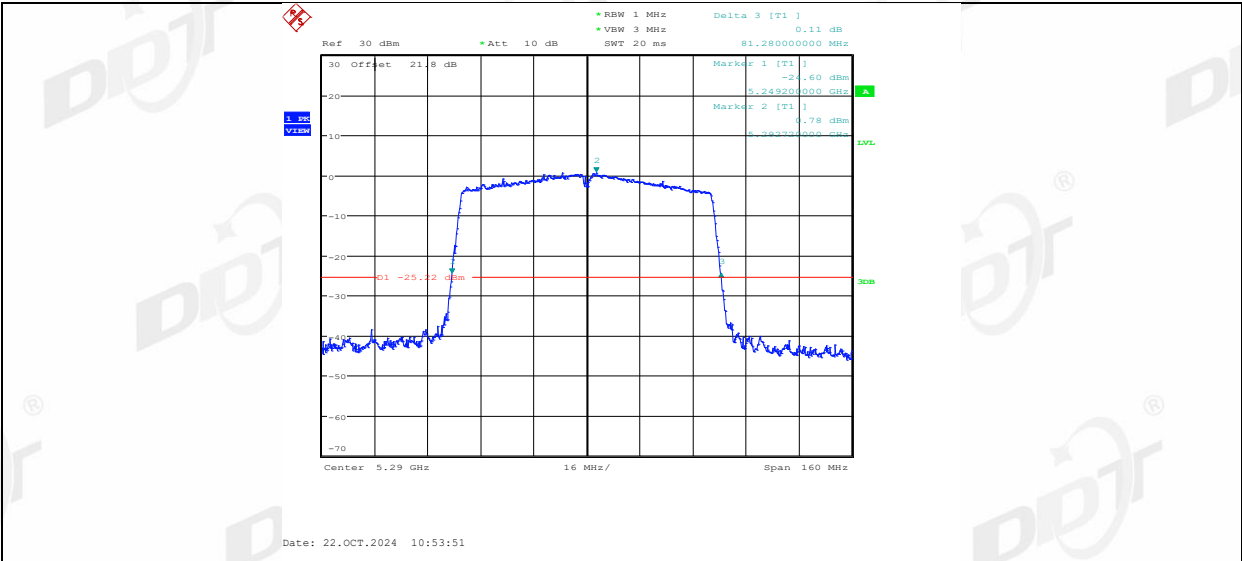
11AC80MIMO_Ant1_5210



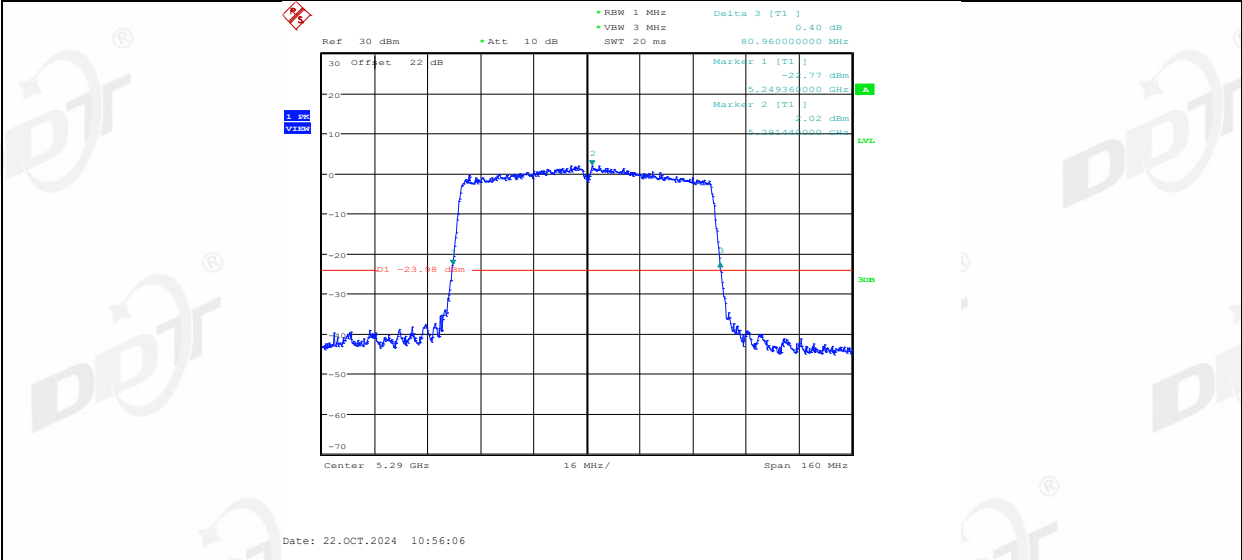
11AC80MIMO_Ant2_5210



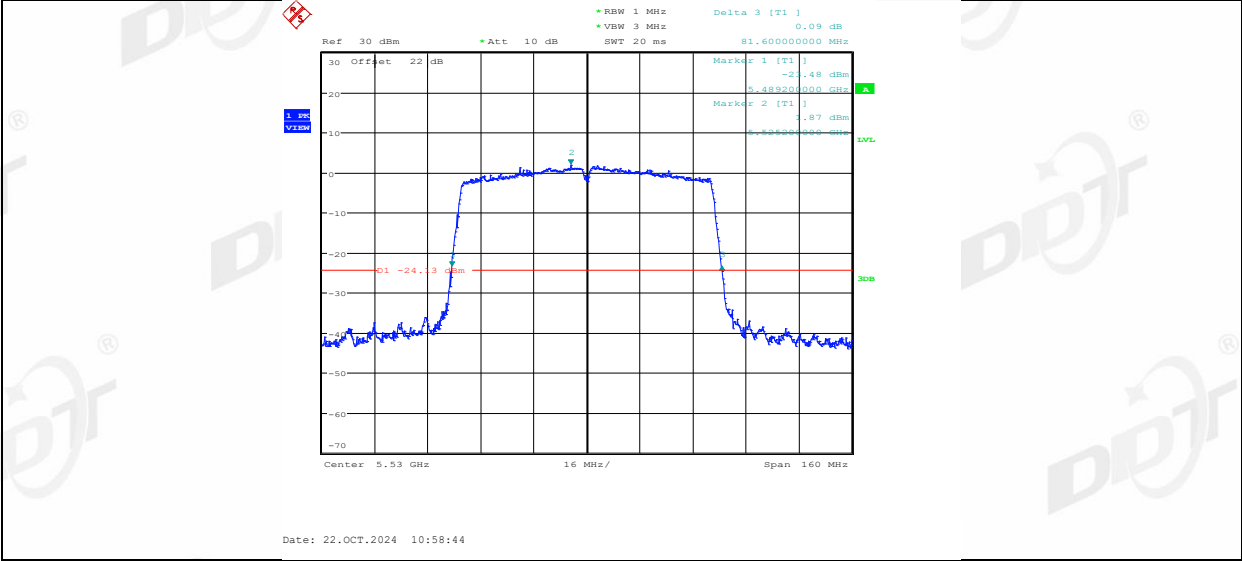
11AC80MIMO_Ant1_5290



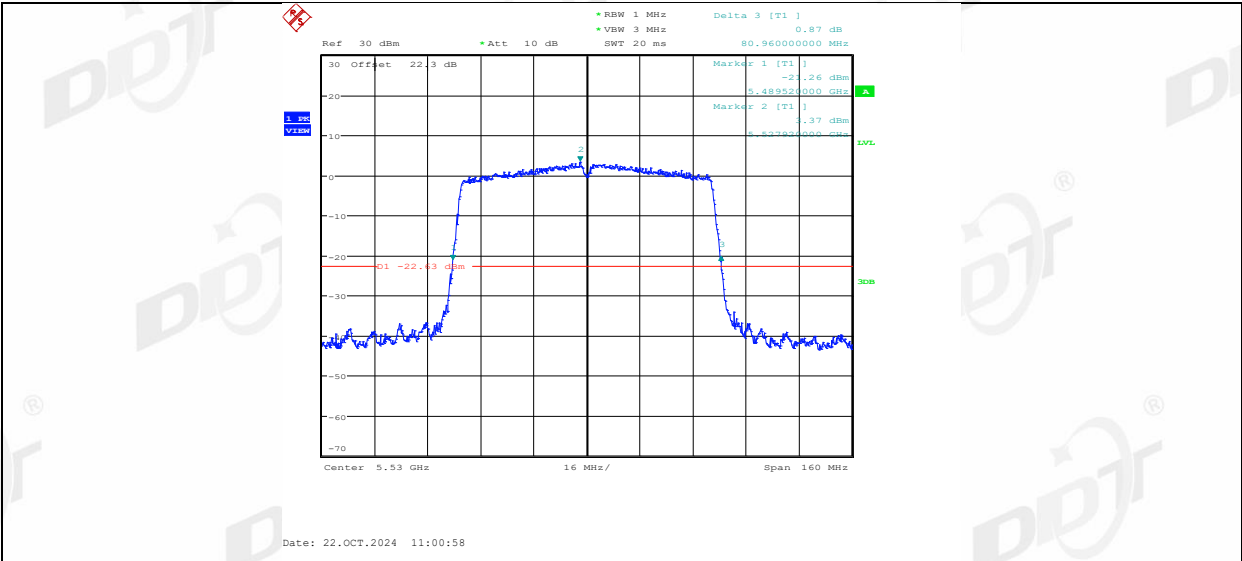
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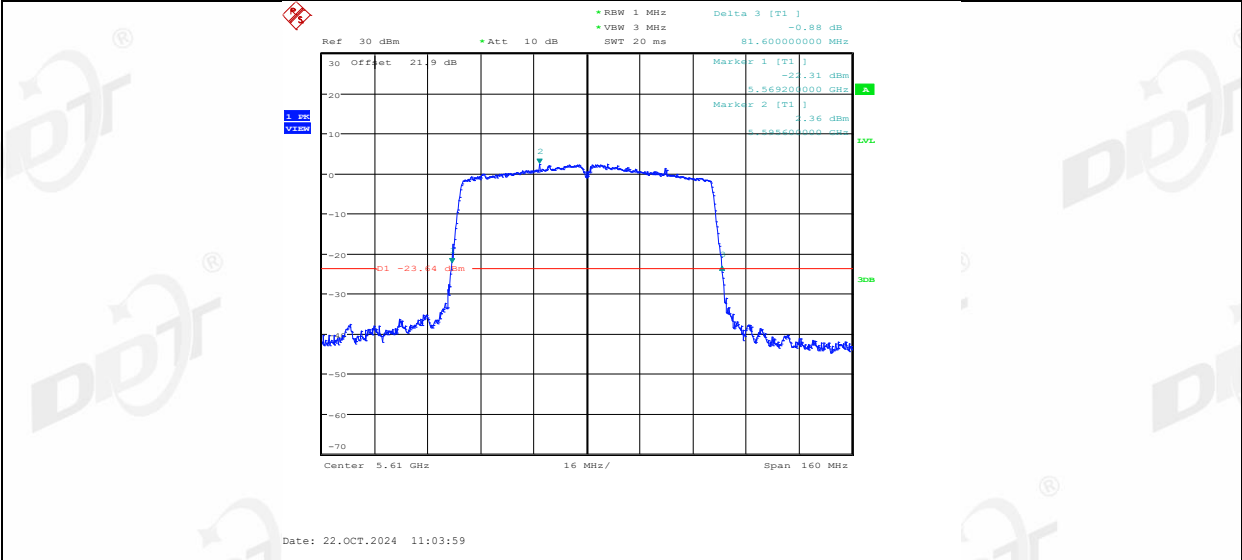
11AC80MIMO_Ant1_5530



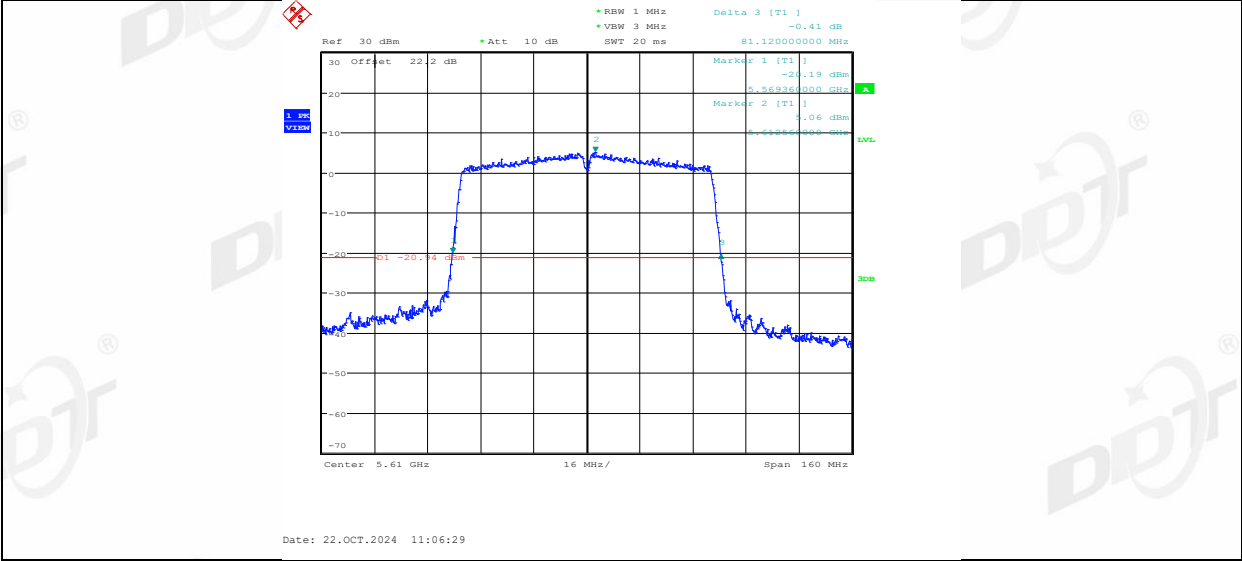
11AC80MIMO_Ant2_5530



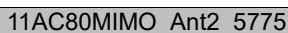
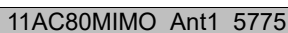
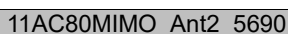
11AC80MIMO_Ant1_5610

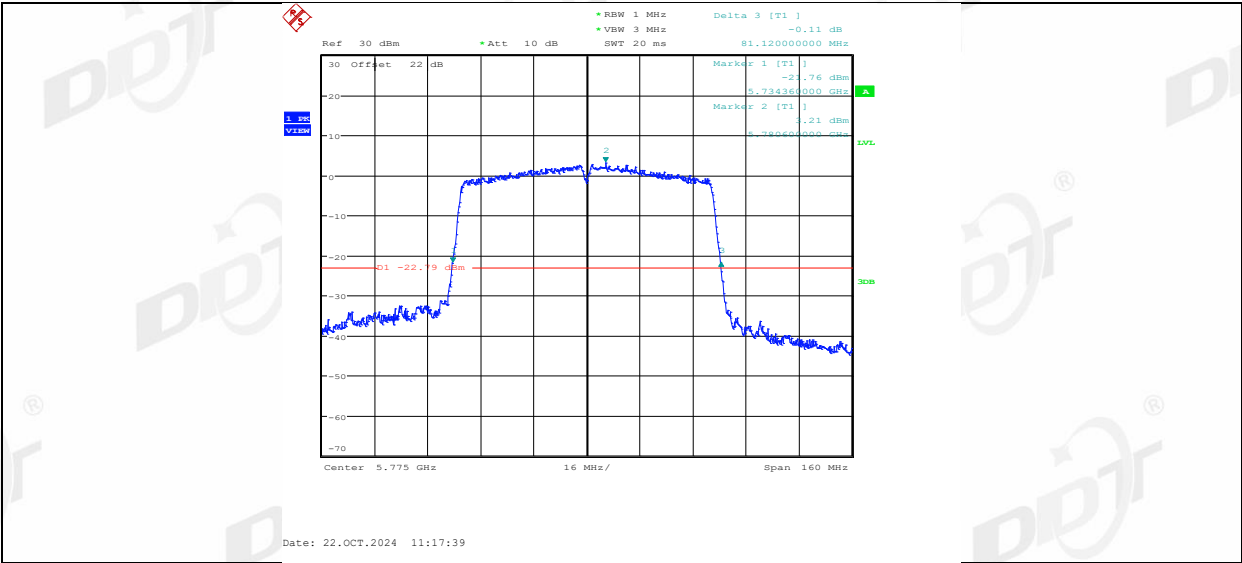


11AC80MIMO_Ant2_5610



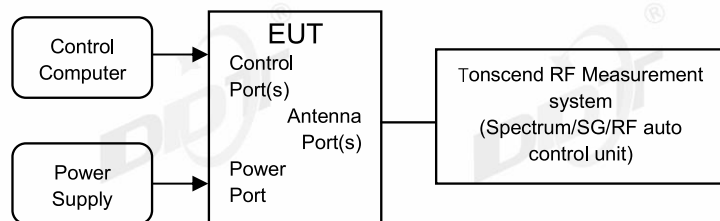
11AC80MIMO_Ant1_5690





5. 6dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
6 dB Bandwidth	Minimum 500 kHz	5725 - 5850

5.3. 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	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

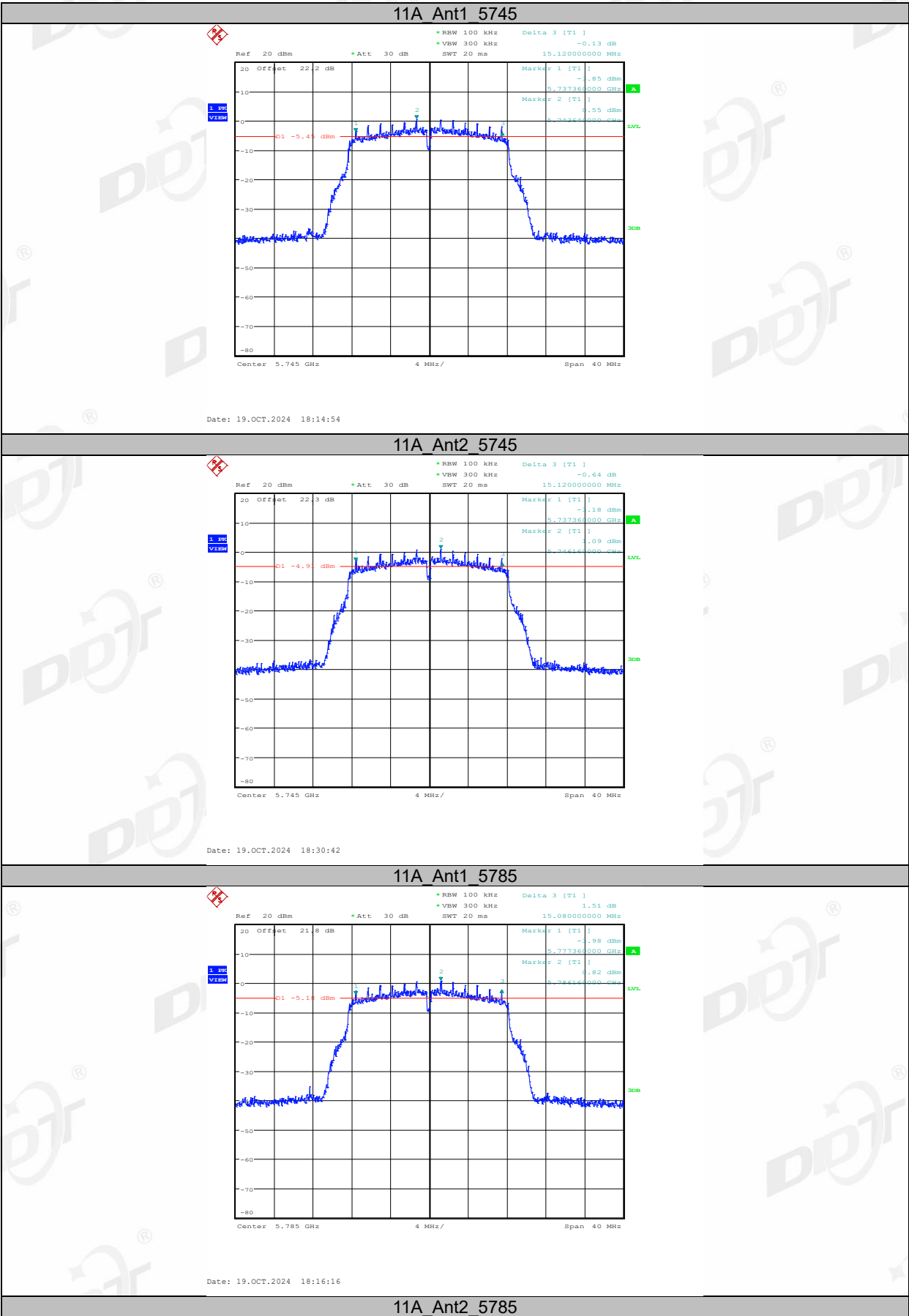
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

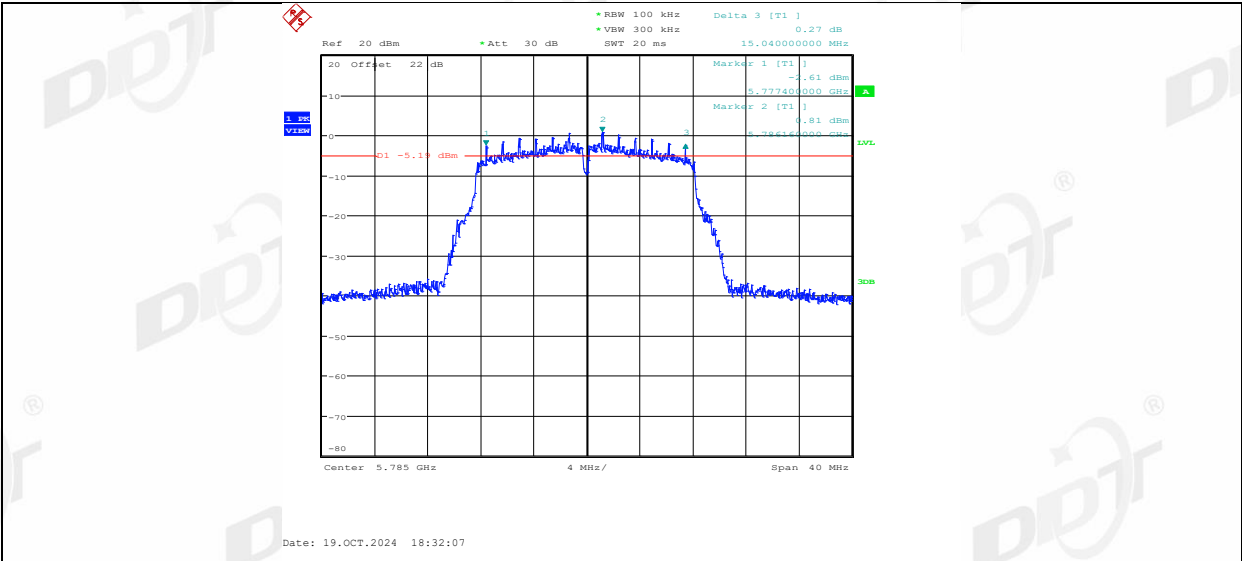
5.4. Test result B4

Test Engineer:	Haofeng	Test Site:	RF Measurement System 1#
Ambient Condition:	24.6℃,46.8%RH	Test Date:	2024.10.19/2024.12.11~2024.12.13
Test Power Supply:	AC120V/60Hz	Sample Number:	S24091913-002

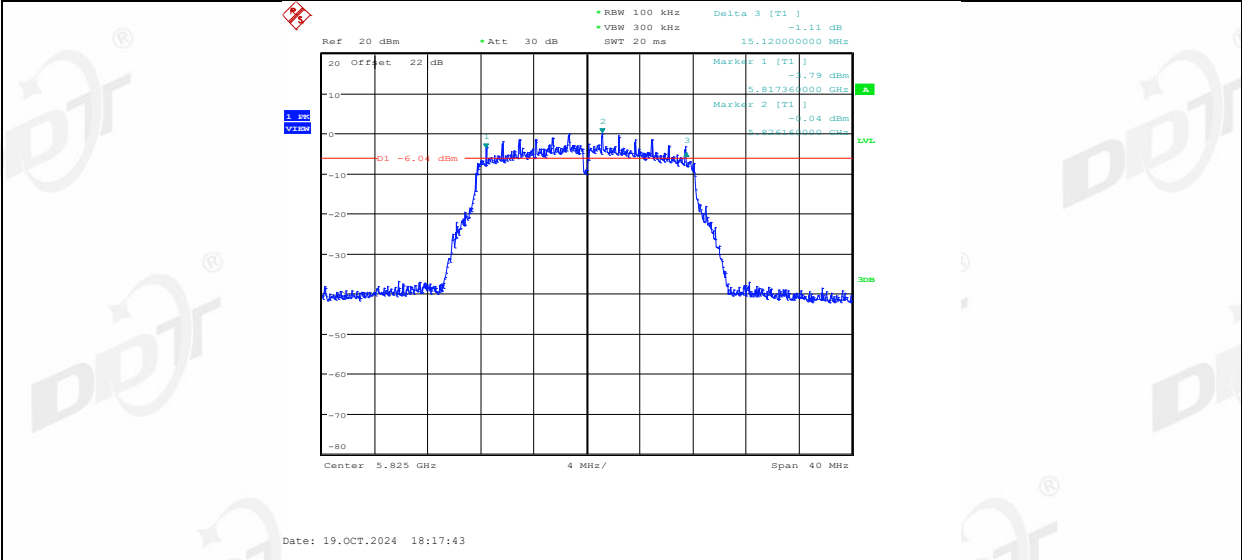
Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.12	5737.36	5752.48	0.5	PASS
	Ant2	5745	15.12	5737.36	5752.48	0.5	PASS
	Ant1	5785	15.08	5777.36	5792.44	0.5	PASS
	Ant2	5785	15.04	5777.40	5792.44	0.5	PASS
	Ant1	5825	15.12	5817.36	5832.48	0.5	PASS
	Ant2	5825	15.08	5817.36	5832.44	0.5	PASS
11N20MIM O	Ant1	5745	15.12	5737.36	5752.48	0.5	PASS
	Ant2	5745	15.12	5737.36	5752.48	0.5	PASS
	Ant1	5785	15.12	5777.36	5792.48	0.5	PASS
	Ant2	5785	15.96	5776.52	5792.48	0.5	PASS
	Ant1	5825	15.12	5817.36	5832.48	0.5	PASS
	Ant2	5825	15.72	5816.76	5832.48	0.5	PASS
11N40MIM O	Ant1	5755	35.12	5737.32	5772.44	0.5	PASS
	Ant2	5755	35.12	5737.32	5772.44	0.5	PASS
	Ant1	5795	35.12	5777.32	5812.44	0.5	PASS
	Ant2	5795	35.12	5777.32	5812.44	0.5	PASS
11AC20MI MO	Ant1	5745	15.12	5737.36	5752.48	0.5	PASS
	Ant2	5745	15.72	5736.76	5752.48	0.5	PASS
	Ant1	5785	15.12	5777.36	5792.48	0.5	PASS
	Ant2	5785	15.68	5777.36	5793.04	0.5	PASS
	Ant1	5825	15.32	5817.16	5832.48	0.5	PASS
	Ant2	5825	15.68	5817.36	5833.04	0.5	PASS
11AC40MI MO	Ant1	5755	35.20	5737.32	5772.52	0.5	PASS
	Ant2	5755	35.12	5737.32	5772.44	0.5	PASS
	Ant1	5795	35.12	5777.32	5812.44	0.5	PASS
	Ant2	5795	35.12	5777.32	5812.44	0.5	PASS
11AC80MI MO	Ant1	5775	75.04	5737.40	5812.44	0.5	PASS
	Ant2	5775	75.04	5737.40	5812.44	0.5	PASS

5.5. Test graphs B4

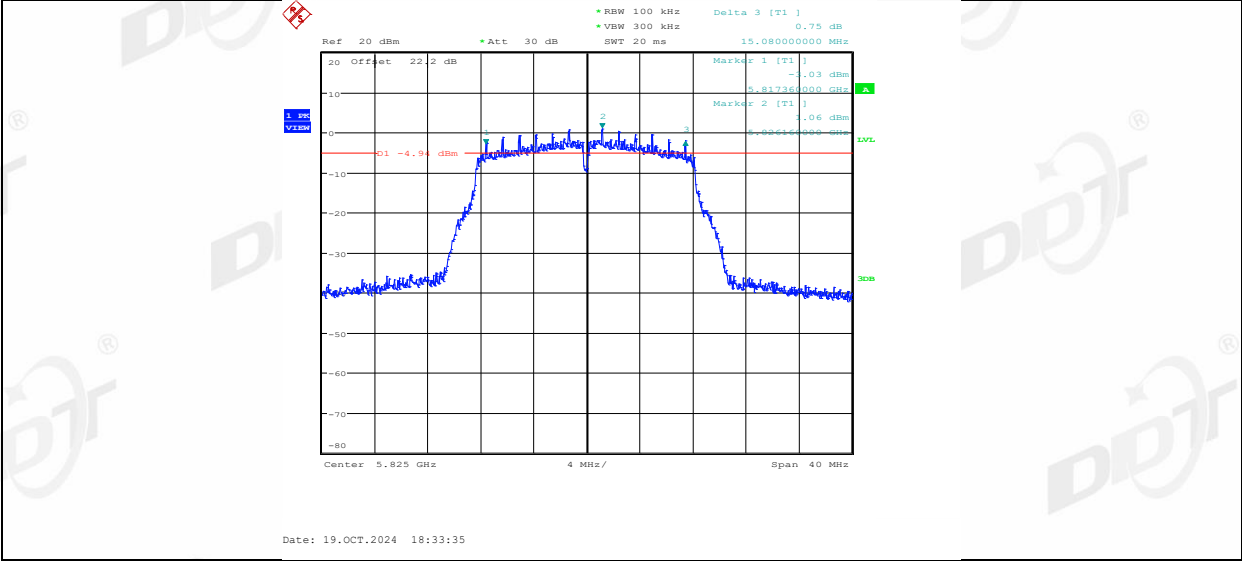




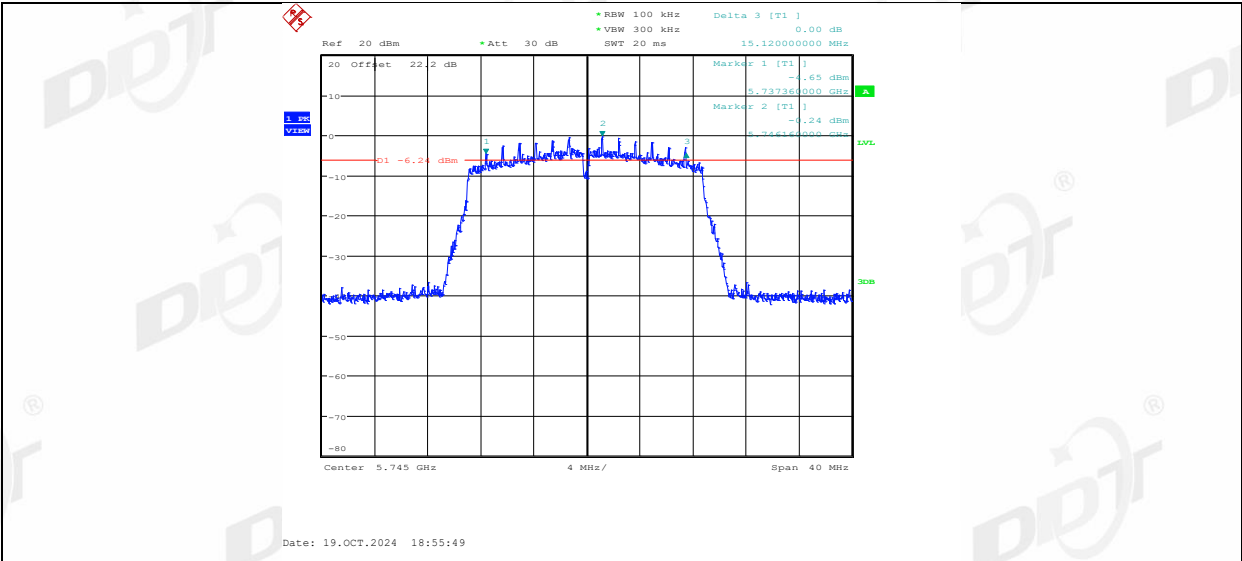
11A_Ant1_5825



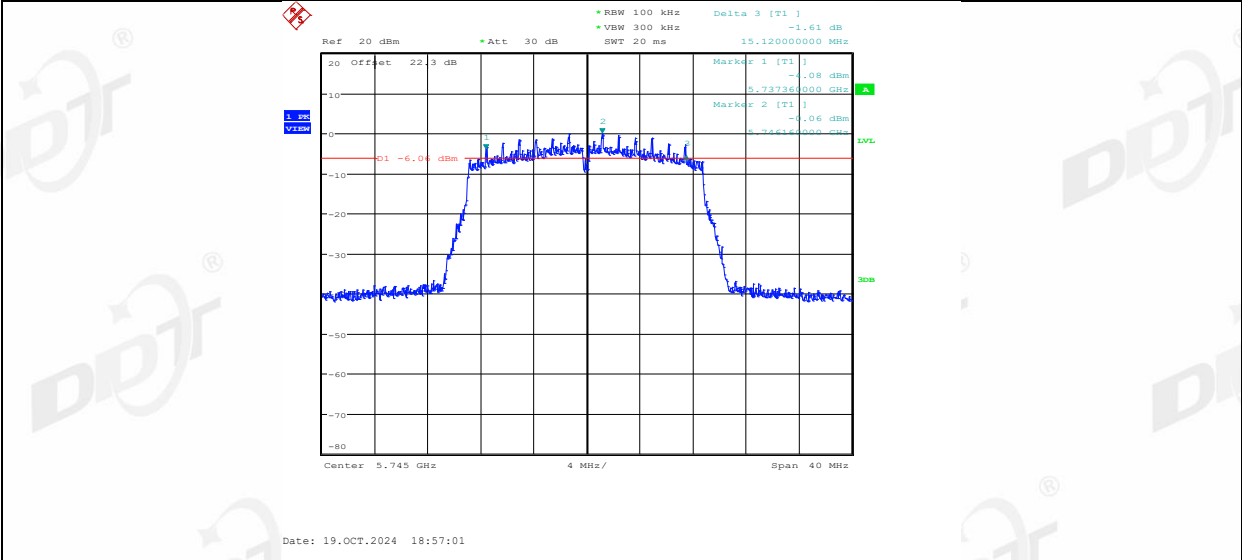
11A_Ant2_5825



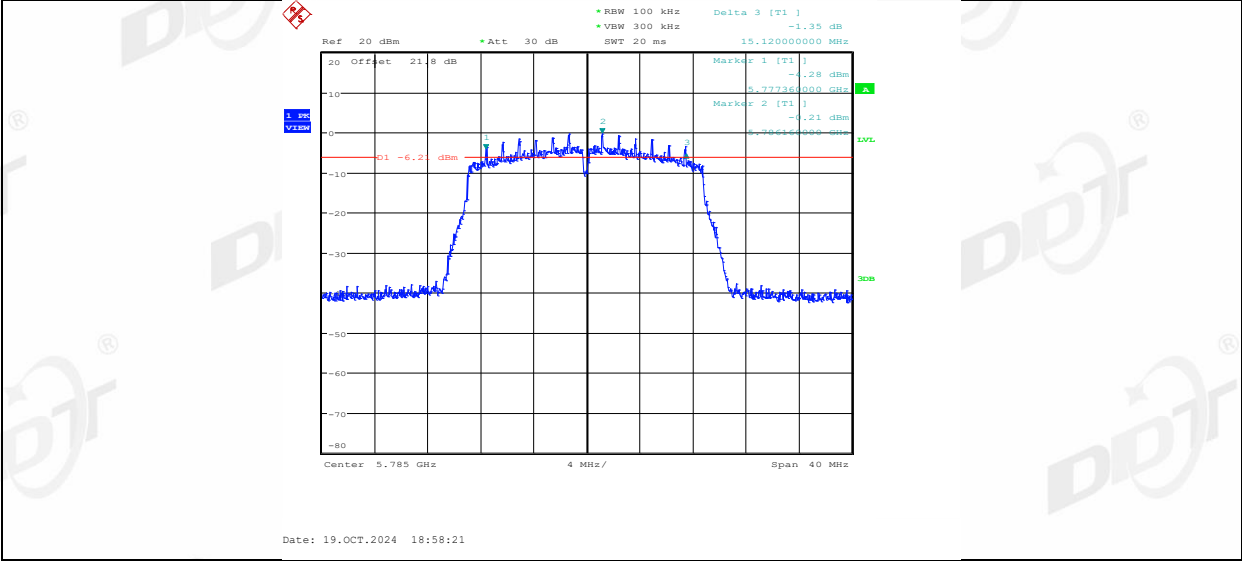
11N20MIMO_Ant1_5745



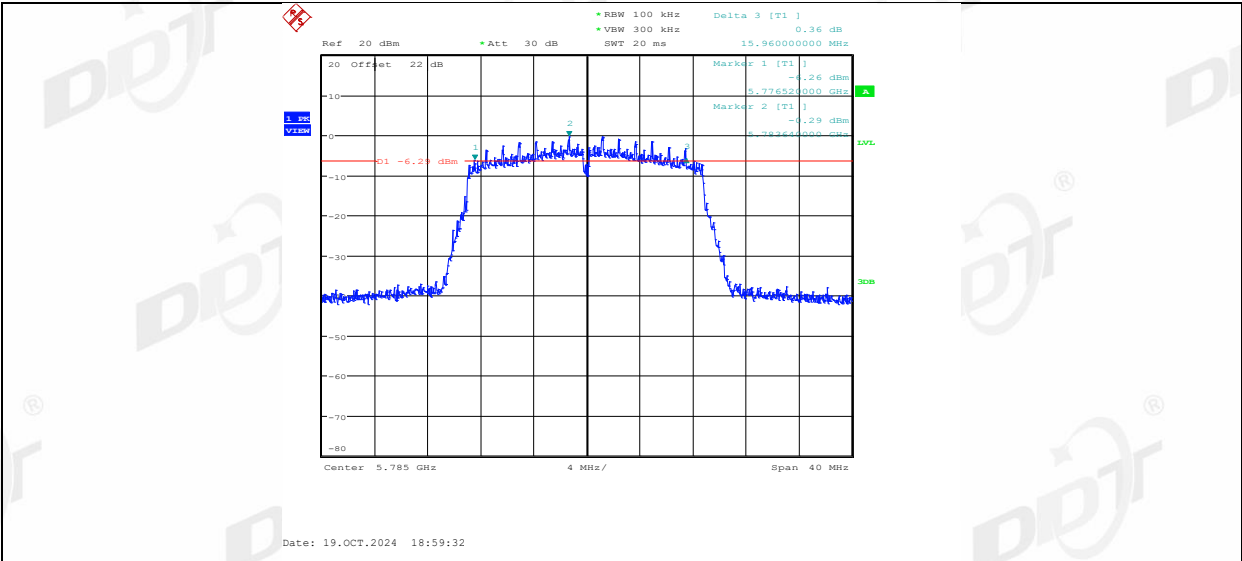
11N20MIMO_Ant2_5745



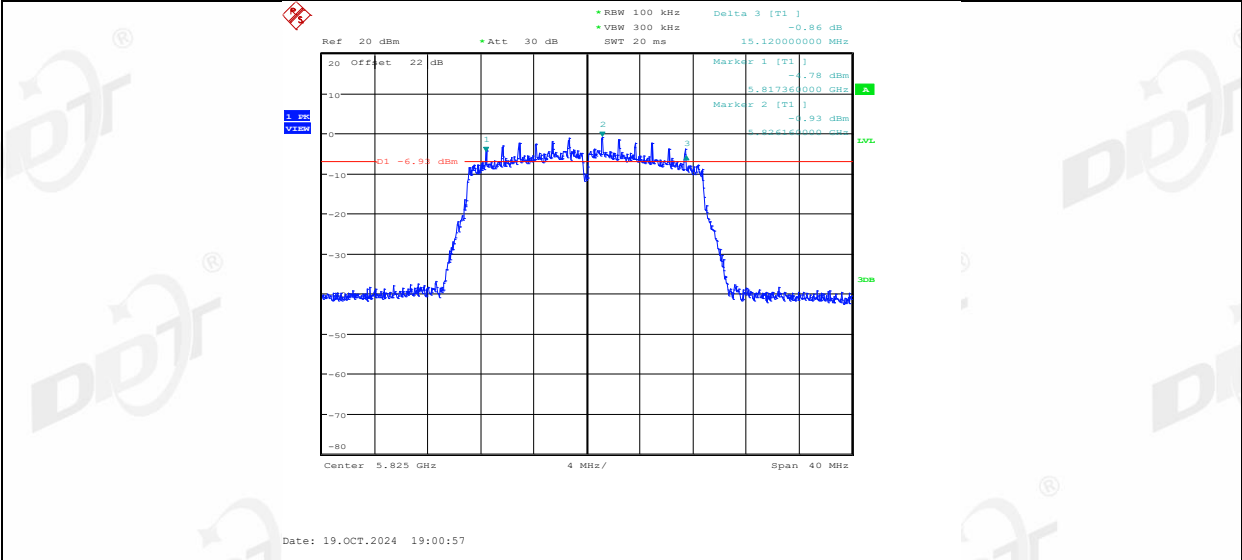
11N20MIMO_Ant1_5785



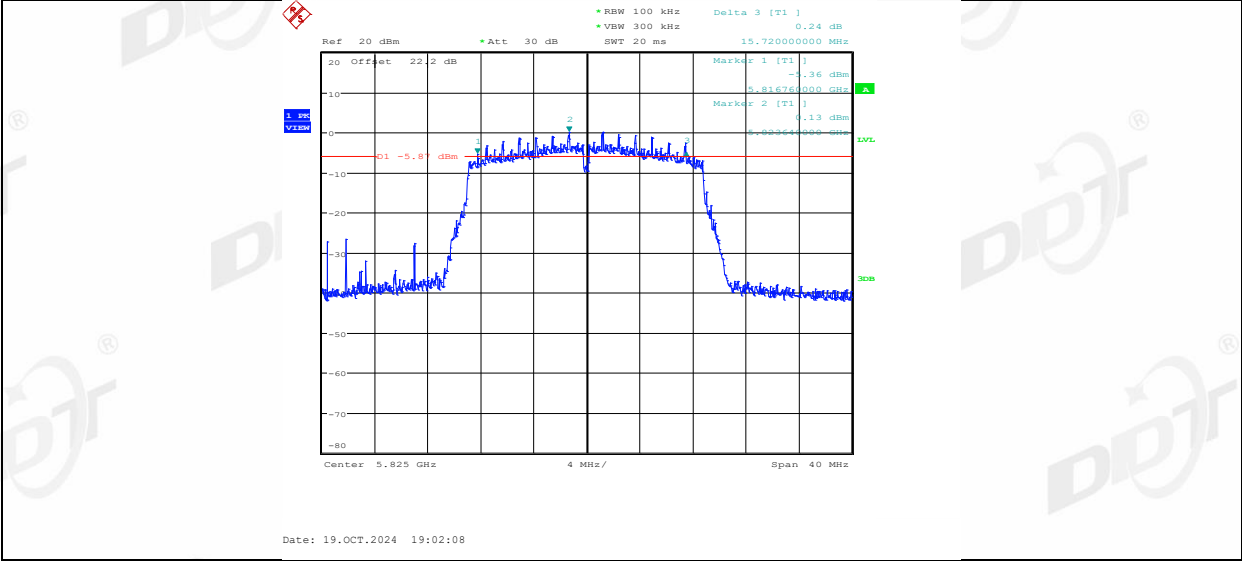
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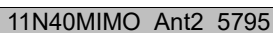
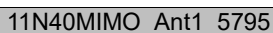
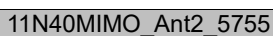
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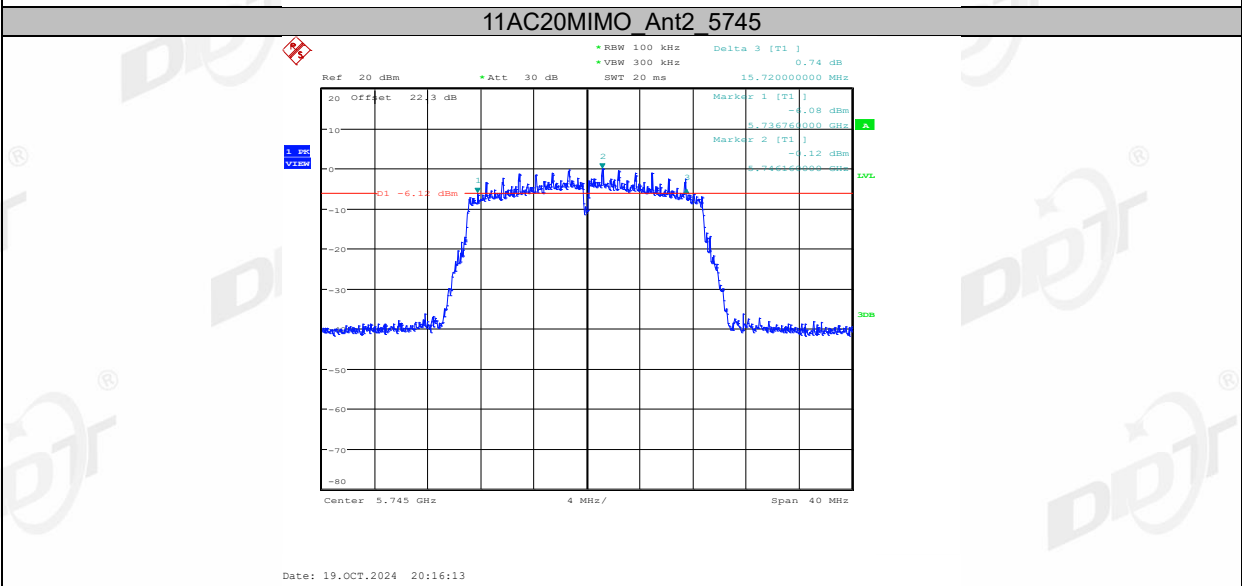
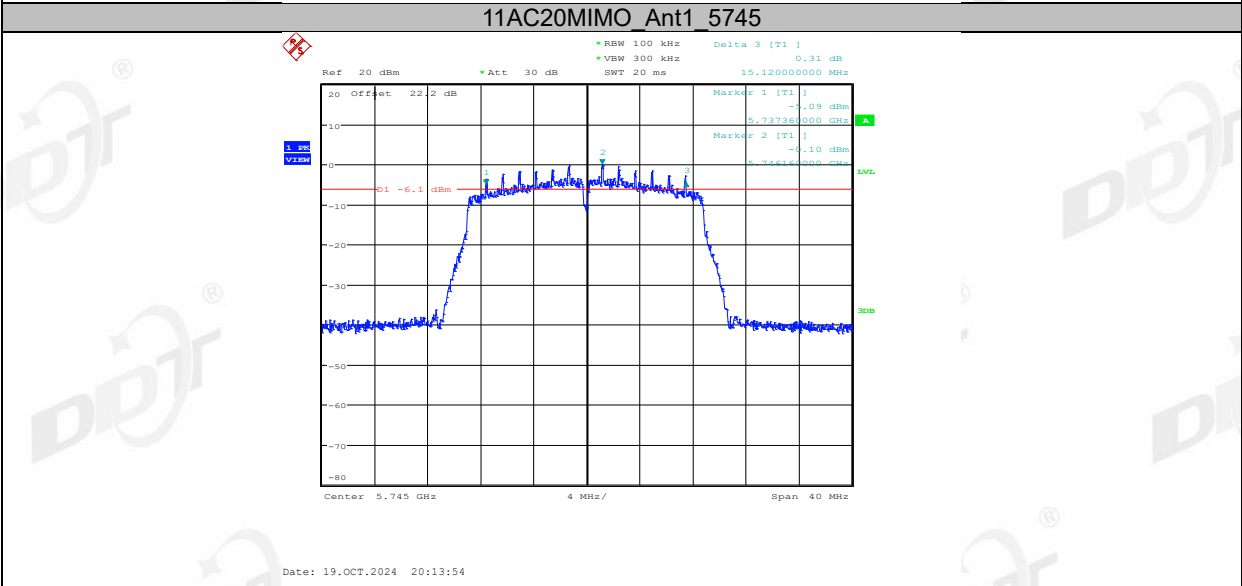
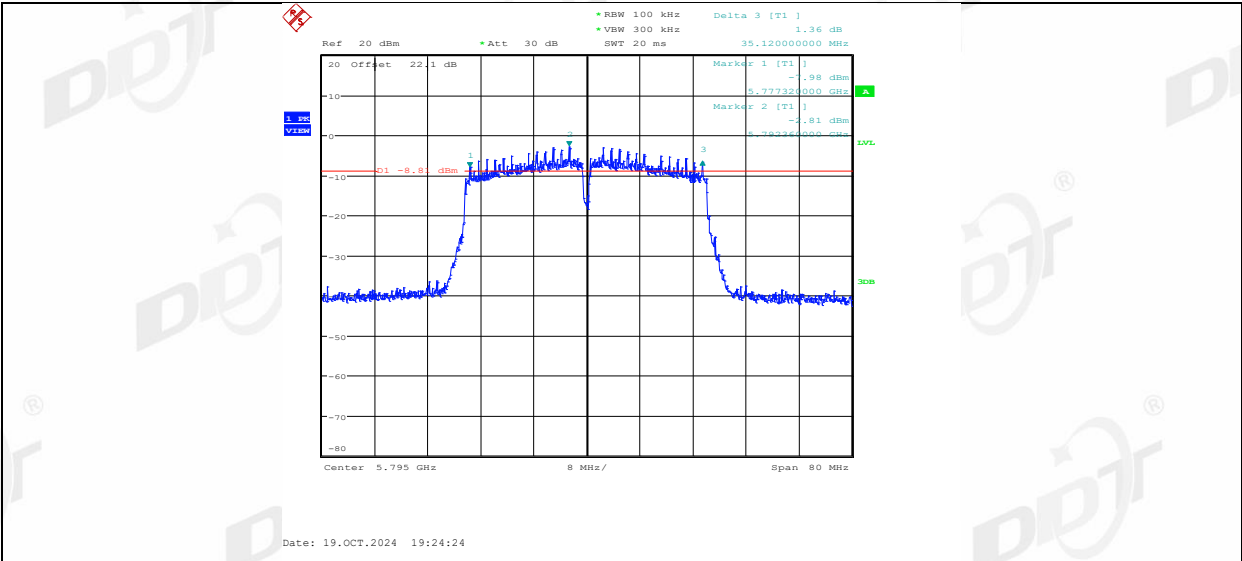


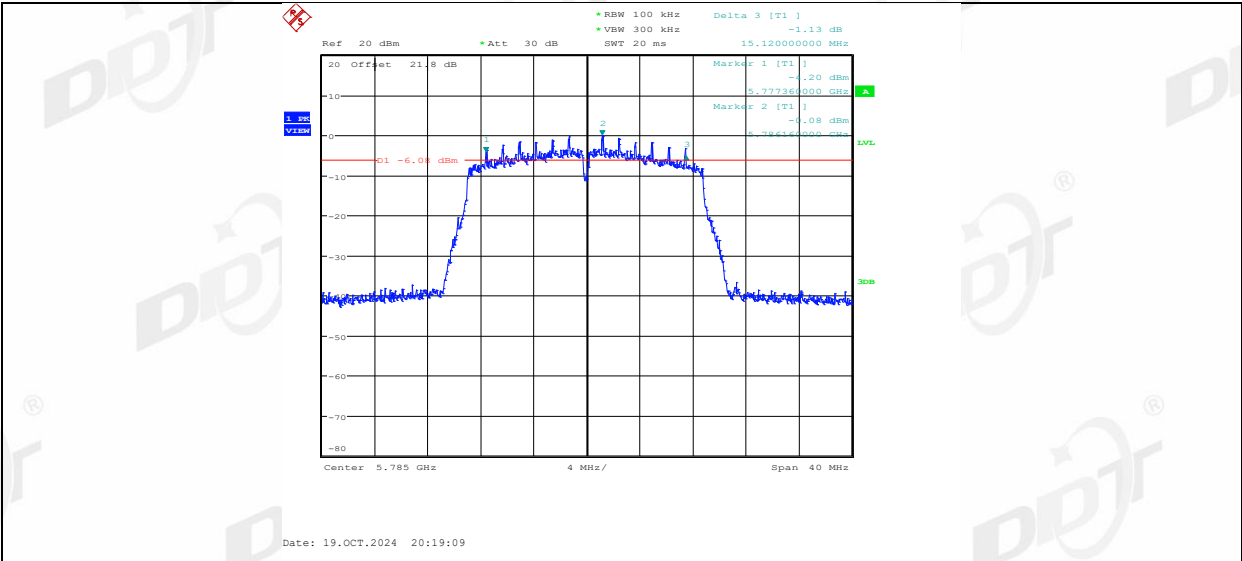
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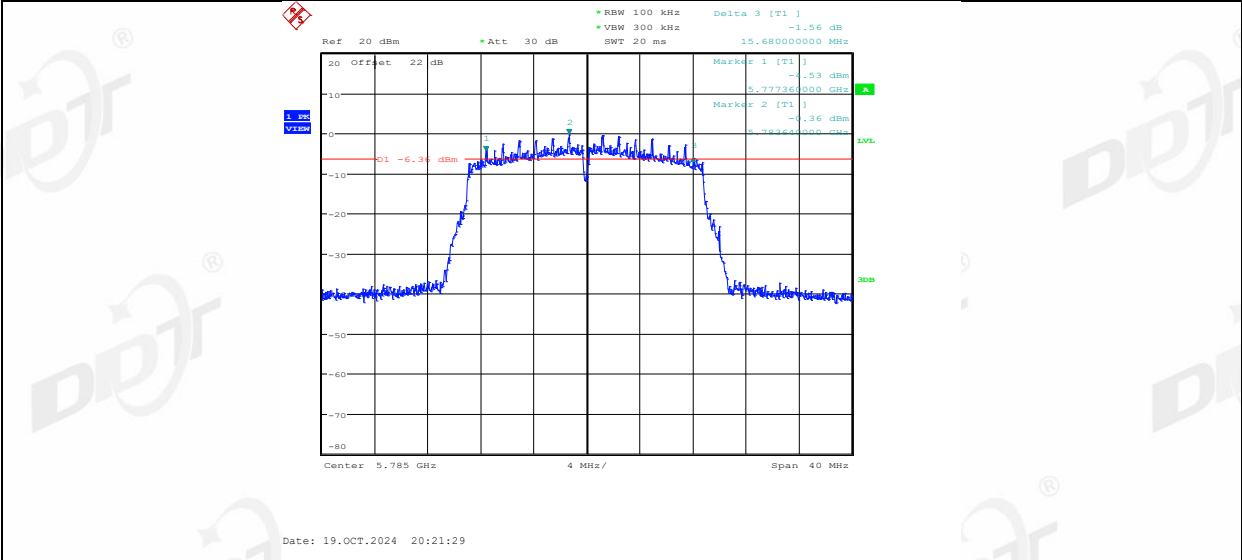
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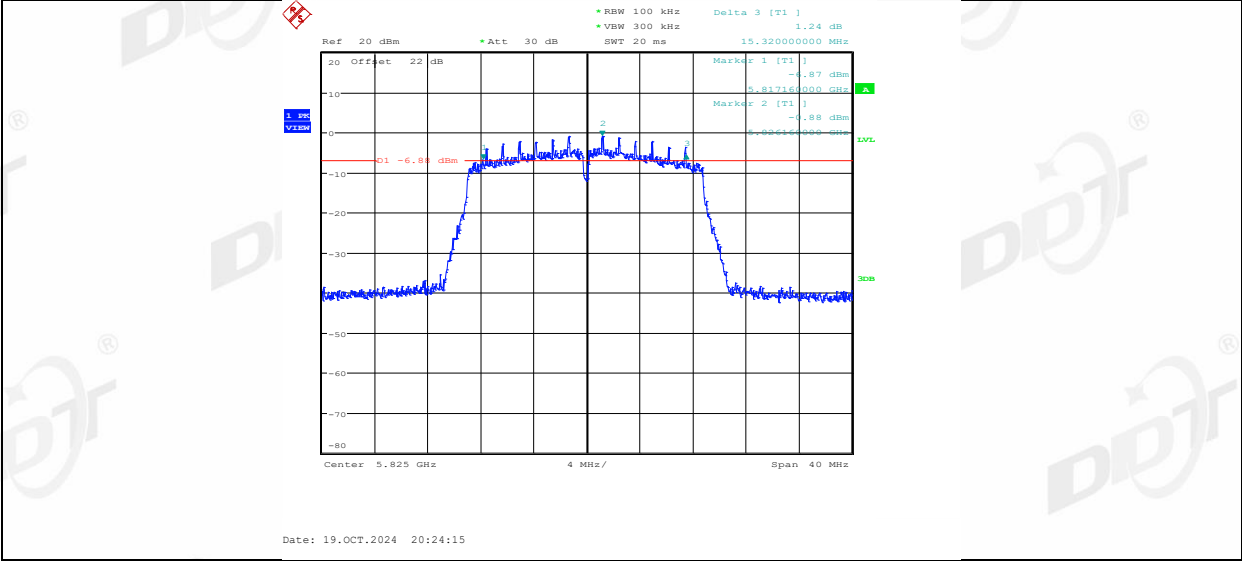




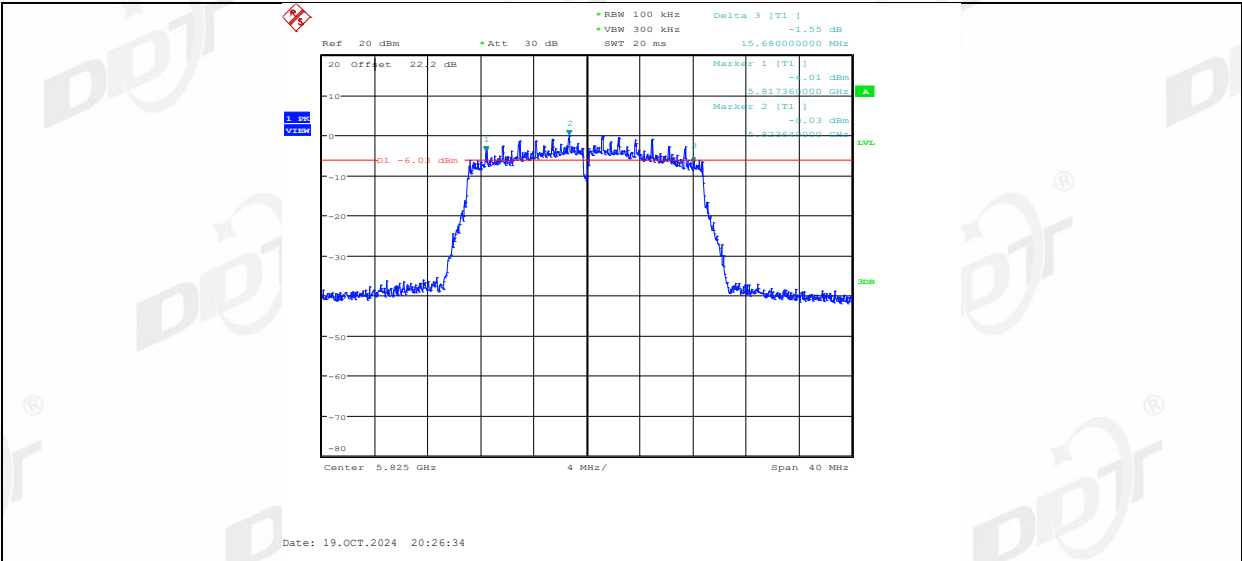
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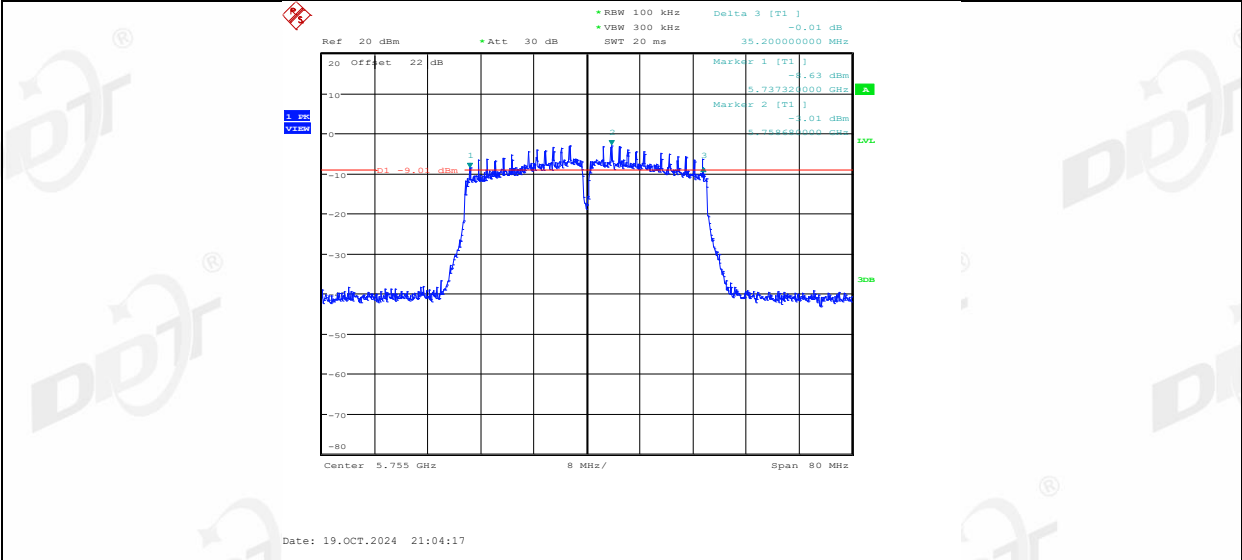
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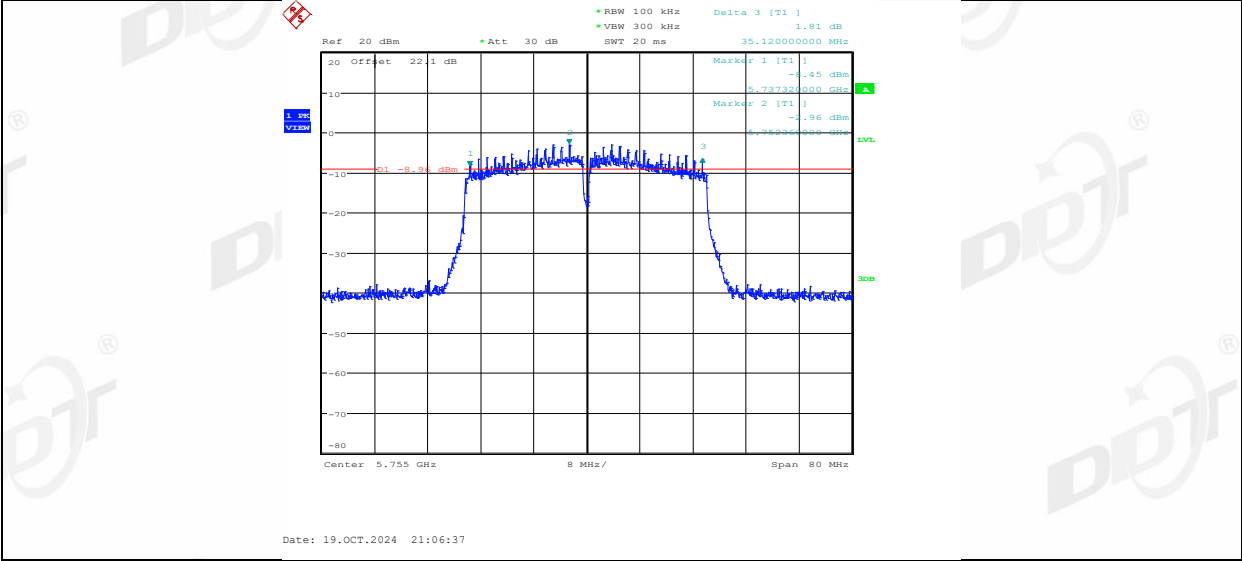
11AC20MIMO_Ant2_5825



11AC40MIMO_Ant1_5755



11AC40MIMO_Ant2_5755



11AC40MIMO_Ant1_5795

