



FCC CERTIFICATION TEST REPORT

Applicant	:	Synamedia Americas LLC
Address of Applicant	:	1715 N Brown Rd Building B, Lawrenceville, GA 30043, USA
Manufacturer	:	Shenzhen SDMC Technology Co., Ltd.
Address of Manufacturer	:	Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen, China
Equipment under Test	:	Senza Cloud Connector
Model No.	:	SZC004, SZC004 XXYY(X=A-Z, Y=0-9)
FCC ID	:	2BF5E-SZC004
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
Report No.	:	DDT-RE24021902-2E04
Issue Date	:	2024/04/29
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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Equipment under Test	:	Senza Cloud Connector
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Manufacturer	:	Shenzhen SDMC Technology Co., Ltd.
Address of Manufacturer	:	Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen, 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

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-RE24021902-2E04		
Date of Receipt:	2024/04/11	Date of Test:	2024/04/11~2024/04/29

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

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

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/04/29	

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	: Senza Cloud Connector
Model Number	: SZC004, SZC004 XYYY(X=A-Z, Y=0-9)
Difference of model number	: Above models are identical in schematic, appearance and structure, only the Model Number is different for all the models, therefore the test performed on the model SZC004.
EUT Function Description	: Please reference user manual of this device
Power Supply	: Tpee-C port DC 5V from external adapter

Note: This EUT support Bluetooth BR/EDR/LE, 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	PCB				
Max Antenna Gain (dBi)		5150 MHz-5250MHz	5250MHz-5350MHz	5470 MHz-5725MHz	5725 MHz-5850MHz
	IEEE 802.11a	-1.8	-1.27	-1.3	-1.32
	IEEE 802.11n HT20	-1.8	-1.27	-1.3	-1.32
	IEEE 802.11n HT40	-1.8	-1.27	-1.3	-1.32
	IEEE 802.11ac VHT20	-1.8	-1.27	-1.3	-1.32
	IEEE 802.11ac VHT40	-1.8	-1.27	-1.3	-1.32
	IEEE 802.11ac VHT80	-1.8	-1.27	-1.3	-1.32

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	/	/	/	/

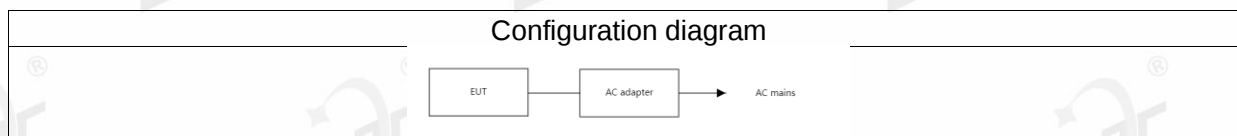
Note : “☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

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
Type-C cable	/	/	Length: 0.50m, Unshielded
HDMI cable	/	/	Length: 0.20m, Unshielded
Remote control	/	/	/

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: PUTTY.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			
IEEE 802.11a	38	6	Low: CH36	5180
	38	6	Middle: CH40	5200
	38	6	High: CH48	5240
	38	6	Low: CH52	5260
	38	6	Middle: CH56	5280
	38	6	High: CH64	5320
	38	6	Low: CH100	5500
	38	6	Middle: CH116	5580
	38	6	High: CH140	5700
	38	6	Straddle: CH144	5720
	38	6	Low: CH149	5745
	38	6	Middle: CH157	5785
	38	6	High: CH165	5825
IEEE 802.11n HT20	38	MCS 0	Low: CH36	5180
	38	MCS 0	Middle: CH40	5200
	38	MCS 0	High: CH48	5240
	38	MCS 0	Low: CH52	5260
	38	MCS 0	Middle: CH56	5280
	38	MCS 0	High: CH64	5320

	38	MCS 0	Low: CH100	5500
	38	MCS 0	Middle: CH116	5580
	38	MCS 0	High: CH140	5700
	38	MCS 0	Straddle:CH144	5720
	38	MCS 0	Low: CH149	5745
	38	MCS 0	Middle: CH157	5785
	38	MCS 0	High: CH165	5825
IEEE 802.11n HT40	38	MCS 0	Low: CH38	5190
	38	MCS 0	Middle: CH46	5230
	38	MCS 0	High: CH54	5270
	38	MCS 0	Low: CH62	5310
	38	MCS 0	Middle: CH102	5510
	38	MCS 0	High: CH110	5550
	38	MCS 0	Low: CH134	5670
	38	MCS 0	Middle: CH151	5755
	38	MCS 0	High: CH159	5795
IEEE 802.11ac VHT20	38	MCS 0	Low: CH36	5180
	38	MCS 0	Middle: CH40	5200
	38	MCS 0	High: CH48	5240
	38	MCS 0	Low: CH52	5260
	38	MCS 0	Middle: CH56	5280
	38	MCS 0	High: CH64	5320
	38	MCS 0	Low: CH100	5500
	38	MCS 0	Middle: CH116	5580
	38	MCS 0	High: CH140	5700
	38	MCS 0	Straddle:CH144	5720
	38	MCS 0	Low: CH149	5745
	38	MCS 0	Middle: CH157	5785
	38	MCS 0	High: CH165	5825
IEEE 802.11 ac VHT40	38	MCS 0	Low: CH38	5190
	38	MCS 0	Middle: CH46	5230
	38	MCS 0	High: CH54	5270
	38	MCS 0	Low: CH62	5310
	38	MCS 0	Middle: CH102	5510
	38	MCS 0	High: CH110	5550
	38	MCS 0	Low: CH134	5670
	38	MCS 0	Straddle: CH142	5710
	38	MCS 0	Middle: CH151	5755
	38	MCS 0	High: CH159	5795
	34	MCS 0	CH42	5210

IEEE 802.11ac VHT80	34	MCS 0	CH58	5290
	38	MCS 0	CH106	5530
	38	MCS 0	CH122	5610
	38	MCS 0	CH138	5690
	38	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℃ to +35 ℃
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

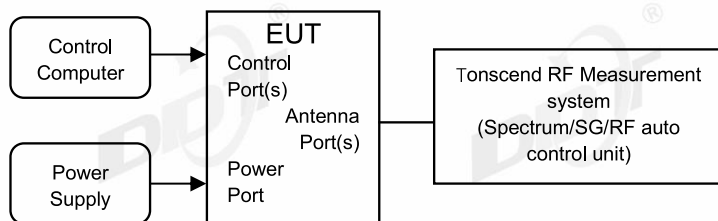
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 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	2024/07/14
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.

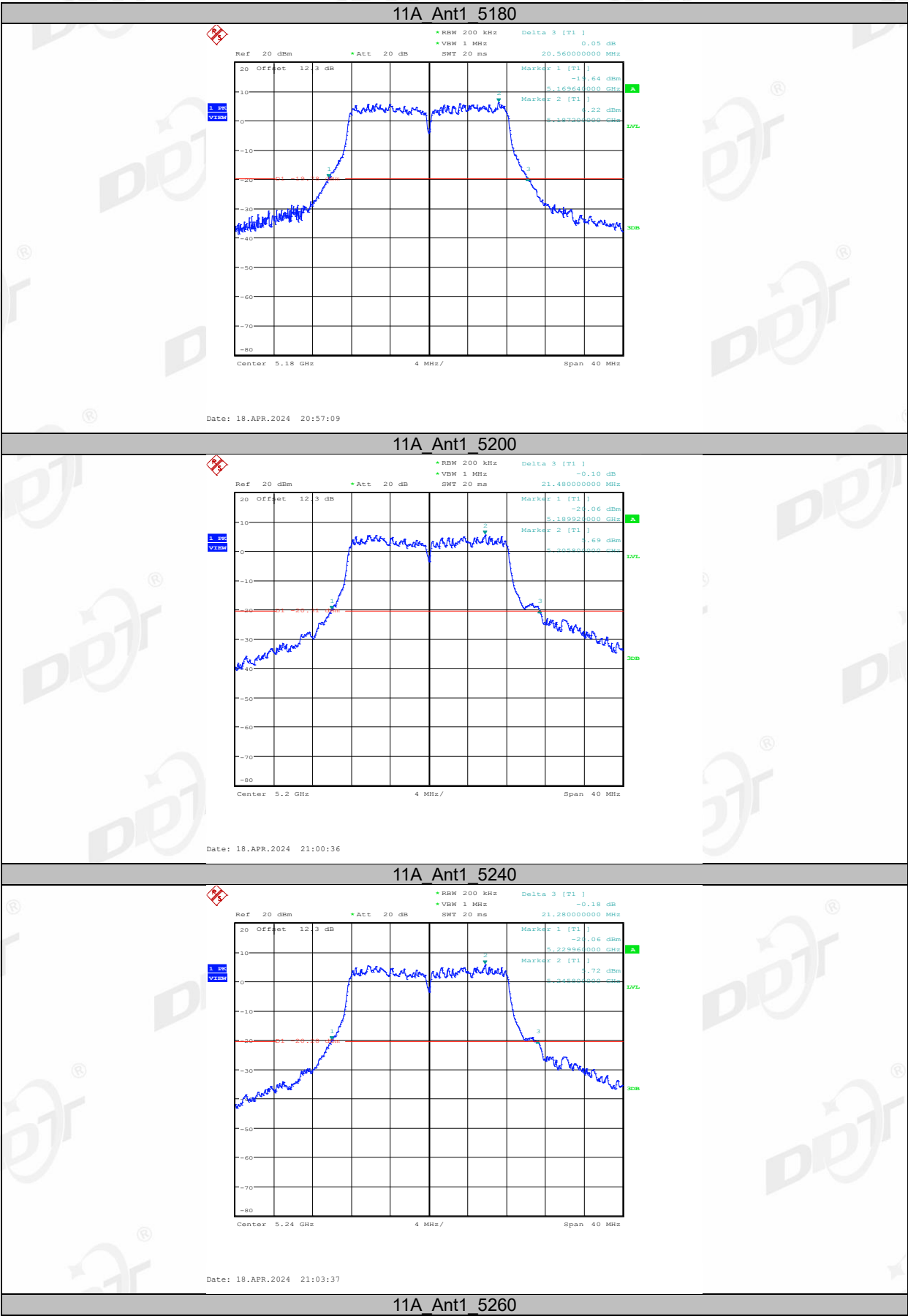
4.4. Test result

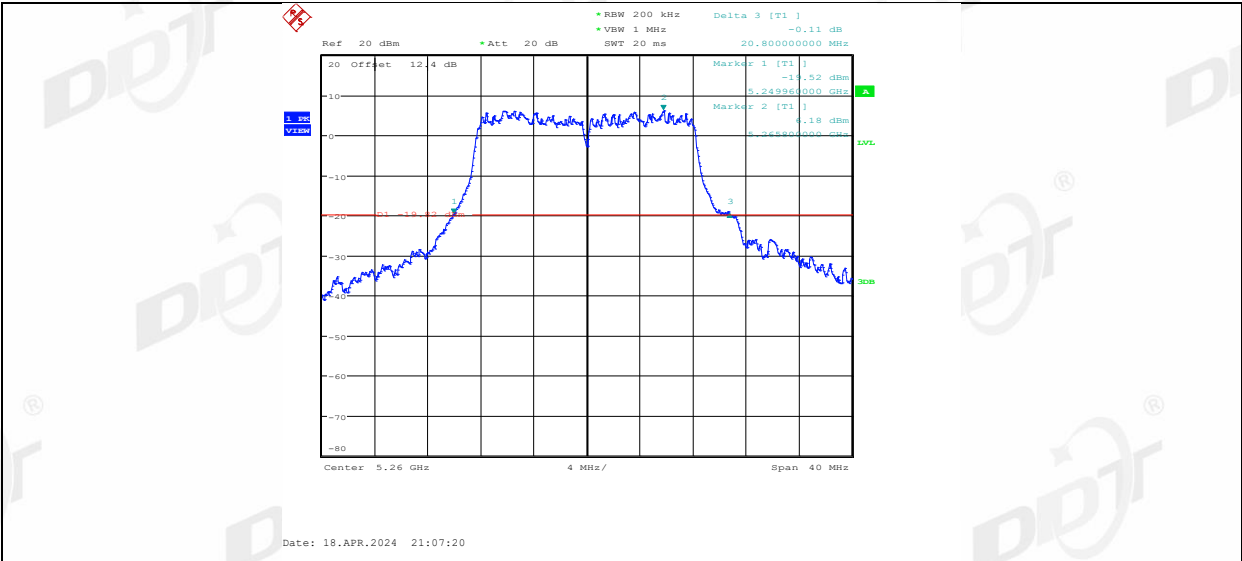
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.3℃,60.6%RH	Test Date:	2024.04.19-2024.04.28
Test Power Supply:	DC 5V from external adapter	Sample Number:	S24021902-001

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.56	5169.64	5190.20	---	---
		5200	21.48	5189.92	5211.40	---	---
		5240	21.28	5229.96	5251.24	---	---
		5260	20.80	5249.96	5270.76	---	---
		5280	21.28	5270.00	5291.28	---	---
		5320	20.36	5309.76	5330.12	---	---
		5500	21.32	5489.60	5510.92	---	---
		5580	20.96	5569.76	5590.72	---	---
		5700	20.72	5689.72	5710.44	---	---
		5720	20.24	5709.76	5730.00	---	---
		5720 UNII-2C	15.24	5709.76	5725	---	---
		5720 UNII-3	5	5725	5730.00	---	---
		5745	21.04	5734.72	5755.76	---	---
		5785	20.60	5774.84	5795.44	---	---
11N20SIS O	Ant1	5180	20.68	5169.84	5190.52	---	---
		5200	20.64	5189.84	5210.48	---	---
		5240	20.56	5229.68	5250.24	---	---
		5260	21.36	5249.52	5270.88	---	---
		5280	21.52	5269.24	5290.76	---	---
		5320	21.32	5309.40	5330.72	---	---
		5500	21.32	5489.32	5510.64	---	---
		5580	20.80	5569.64	5590.44	---	---
		5700	21.28	5689.52	5710.80	---	---
		5720	21.12	5709.52	5730.64	---	---
		5720 UNII-2C	15.48	5709.52	5725	---	---
		5720 UNII-3	5.64	5725	5730.64	---	---
		5745	21.16	5734.60	5755.76	---	---
		5785	21.16	5774.16	5795.32	---	---
11N40SIS O	Ant1	5190	42.40	5168.64	5211.04	---	---
		5230	42.16	5208.88	5251.04	---	---
		5270	41.52	5249.36	5290.88	---	---
		5310	42.00	5289.28	5331.28	---	---
		5510	56.08	5488.80	5544.88	---	---
		5550	41.60	5529.44	5571.04	---	---
		5670	41.68	5648.96	5690.64	---	---
		5710	41.44	5689.28	5730.72	---	---
		5710 UNII-2C	35.72	5689.28	5725	---	---
		5710 UNII-3	5.72	5725	5730.72	---	---
		5755	42.48	5733.88	5776.36	---	---
		5795	42.16	5774.04	5816.20	---	---
11AC20SI SO	Ant1	5180	21.00	5169.56	5190.56	---	---
		5200	21.08	5189.40	5210.48	---	---
		5240	21.56	5229.24	5250.80	---	---
		5260	21.20	5249.36	5270.56	---	---
		5280	21.32	5269.36	5290.68	---	---
		5320	21.20	5309.32	5330.52	---	---
		5500	21.00	5489.48	5510.48	---	---
		5580	21.44	5569.24	5590.68	---	---
		5700	21.20	5689.36	5710.56	---	---
		5720	21.28	5709.32	5730.60	---	---
		5720 UNII-2C	15.68	5709.32	5725	---	---
		5720 UNII-3	5.6	5725	5730.60	---	---
		5745	21.36	5734.32	5755.68	---	---

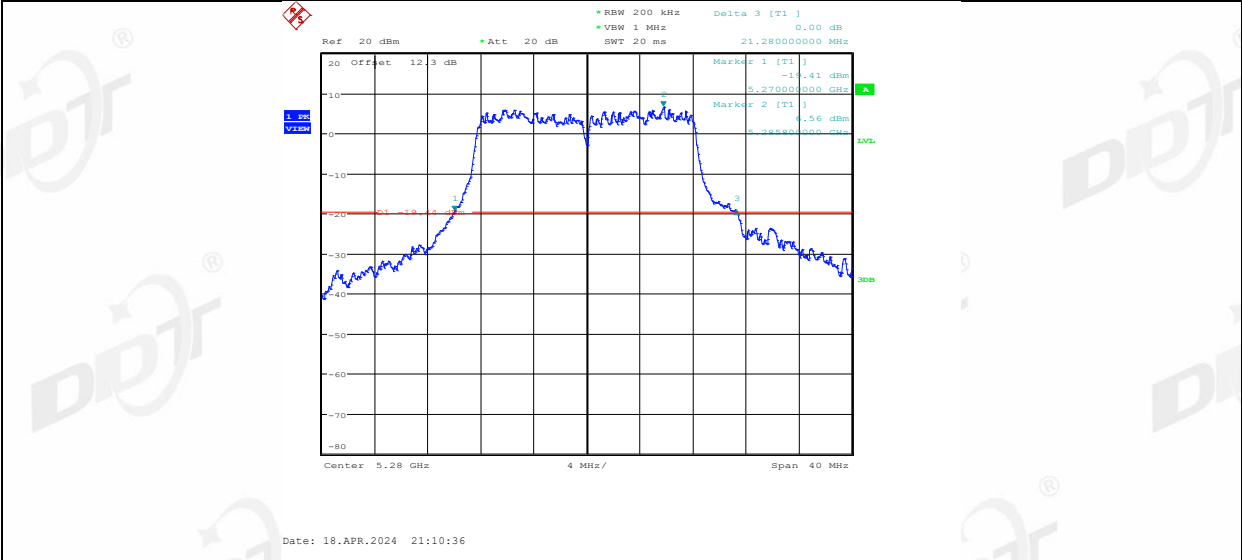
11AC40SI SO	Ant1	5785	21.16	5774.36	5795.52	---	---
		5825	21.32	5814.24	5835.56	---	---
		5190	42.56	5168.96	5211.52	---	---
		5230	42.64	5209.20	5251.84	---	---
		5270	42.64	5248.72	5291.36	---	---
		5310	41.36	5289.36	5330.72	---	---
		5510	42.16	5489.20	5531.36	---	---
		5550	42.96	5528.56	5571.52	---	---
		5670	43.28	5648.32	5691.60	---	---
		5710	42.96	5688.56	5731.52	---	---
		5710 UNII-2C	36.44	5688.56	5725	---	---
		5710 UNII-3	6.52	5725	5731.52	---	---
		5755	45.44	5733.48	5778.92	---	---
		5795	42.08	5774.12	5816.20	---	---
11AC80SI SO	Ant1	5210	83.68	5168.08	5251.76	---	---
		5290	83.68	5248.08	5331.76	---	---
		5530	83.20	5488.40	5571.60	---	---
		5610	84.16	5568.24	5652.40	---	---
		5690	84.00	5648.08	5732.08	---	---
		5690 UNII-2C	76.92	5648.08	5725	---	---
		5690 UNII-3	7.08	5725	5732.08	---	---
		5775	82.72	5733.40	5816.12	---	---

4.5. Test graphs

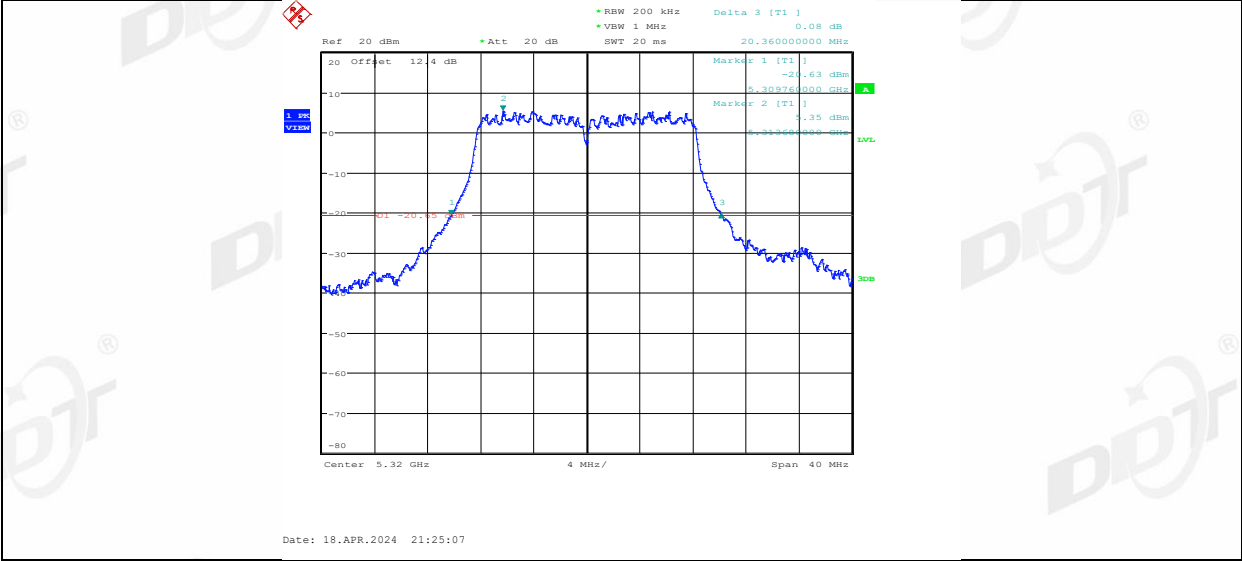




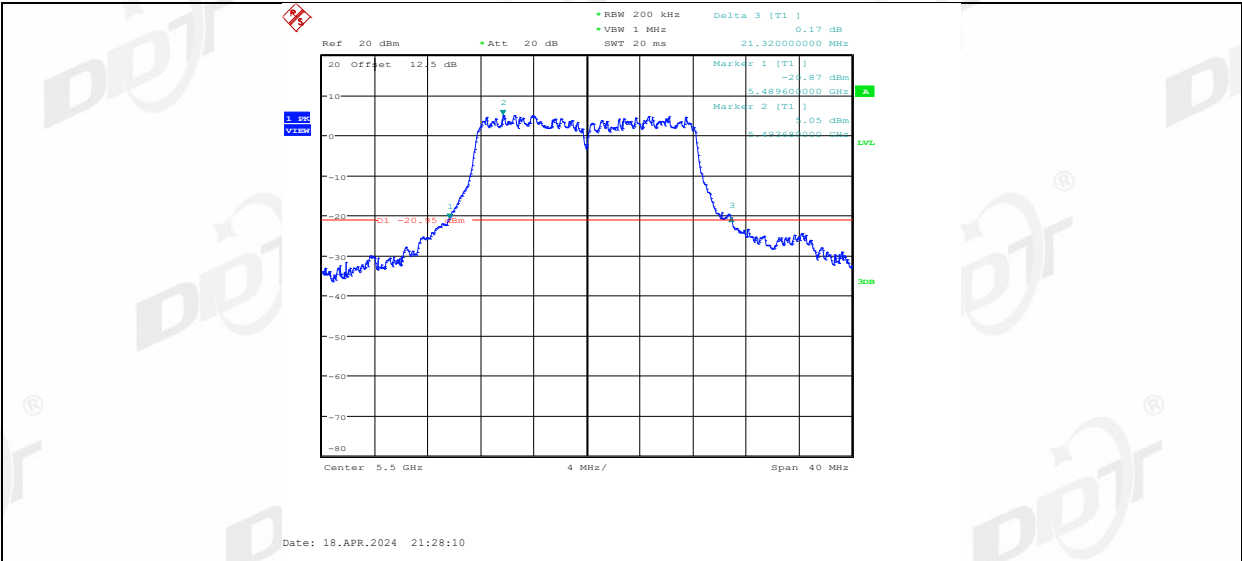
11A_Ant1_5280



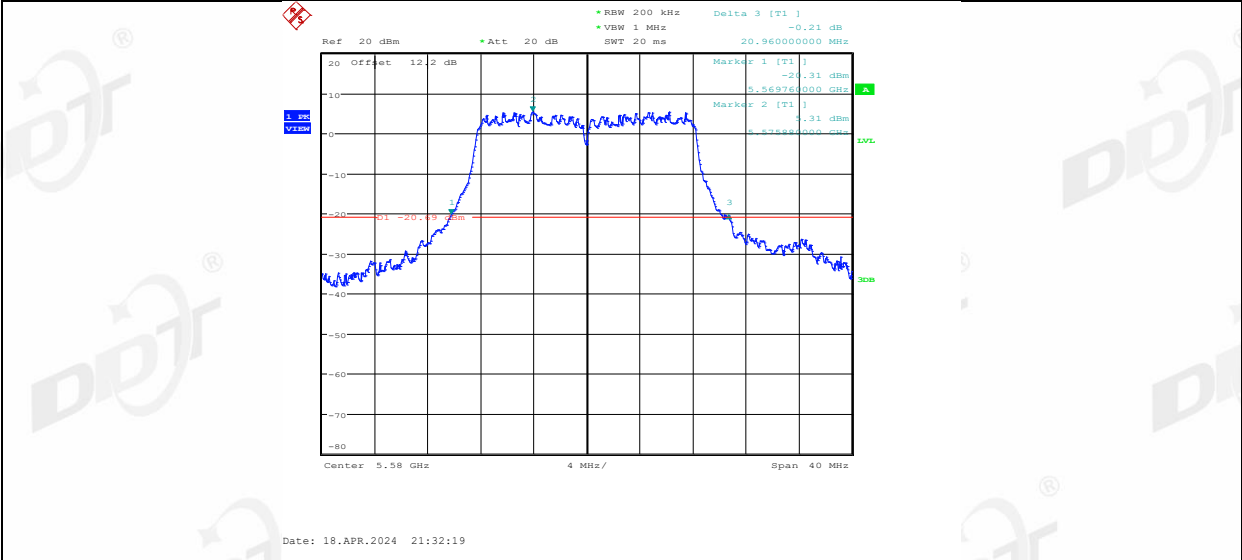
11A_Ant1_5320



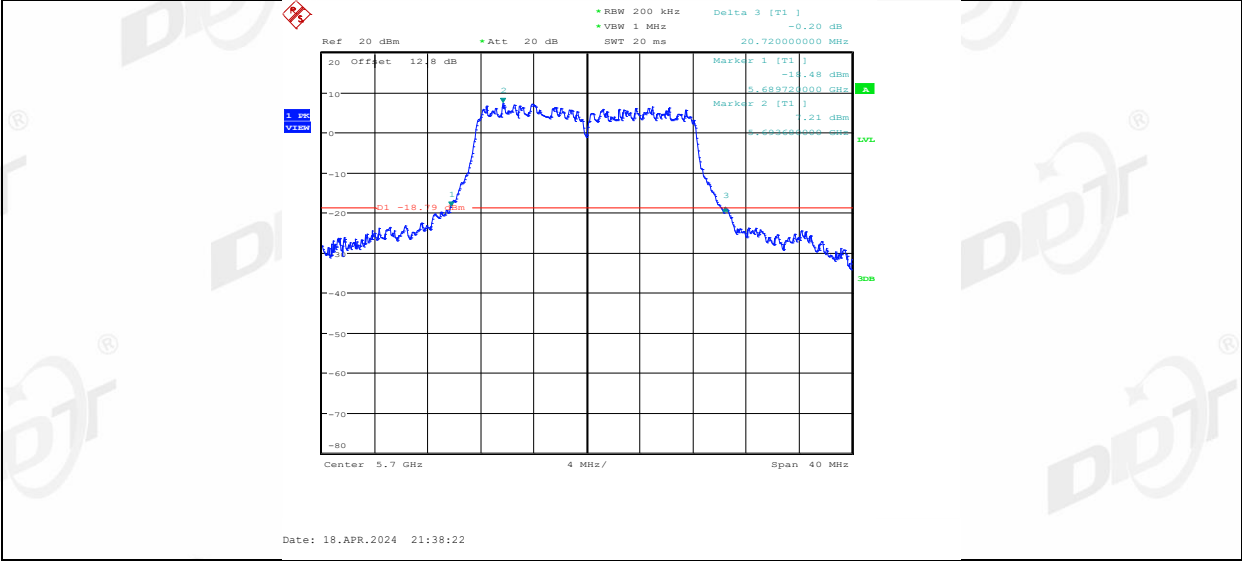
11A_Ant1_5500



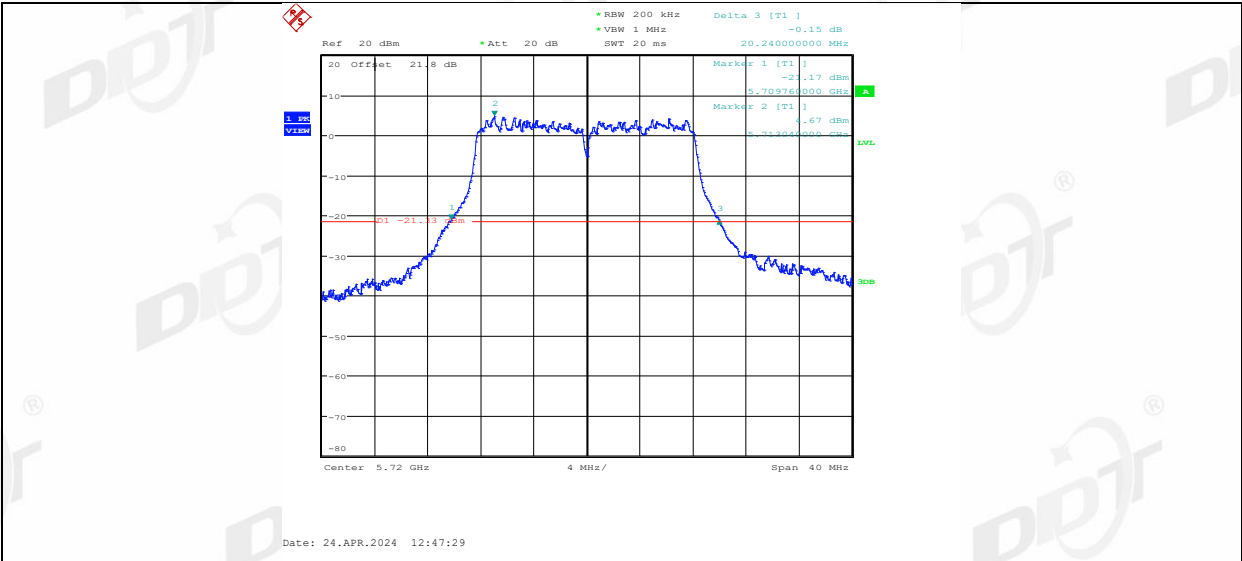
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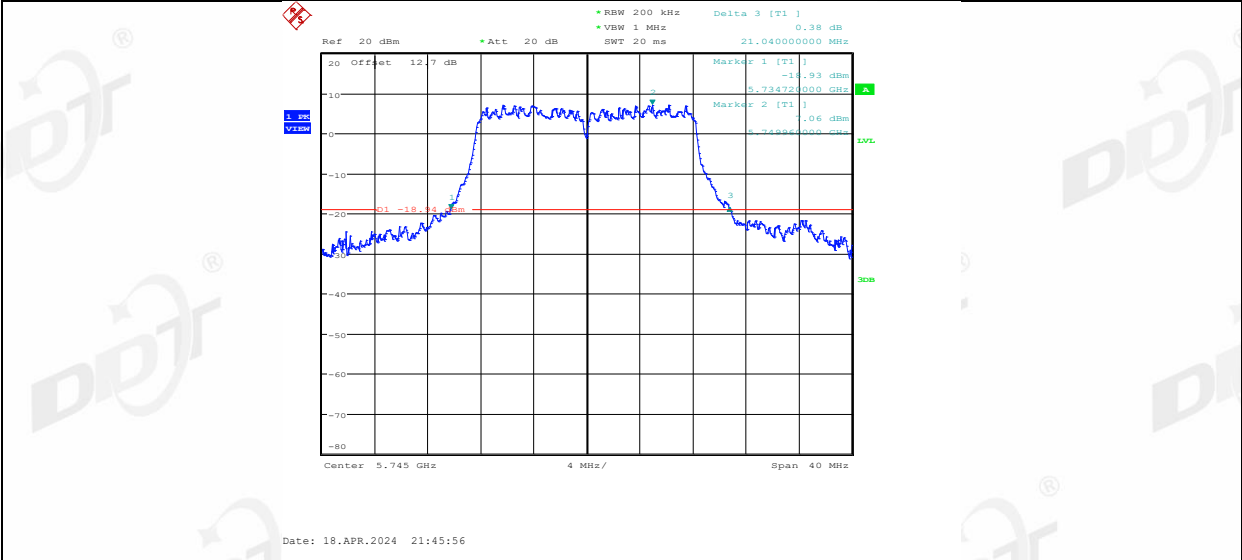
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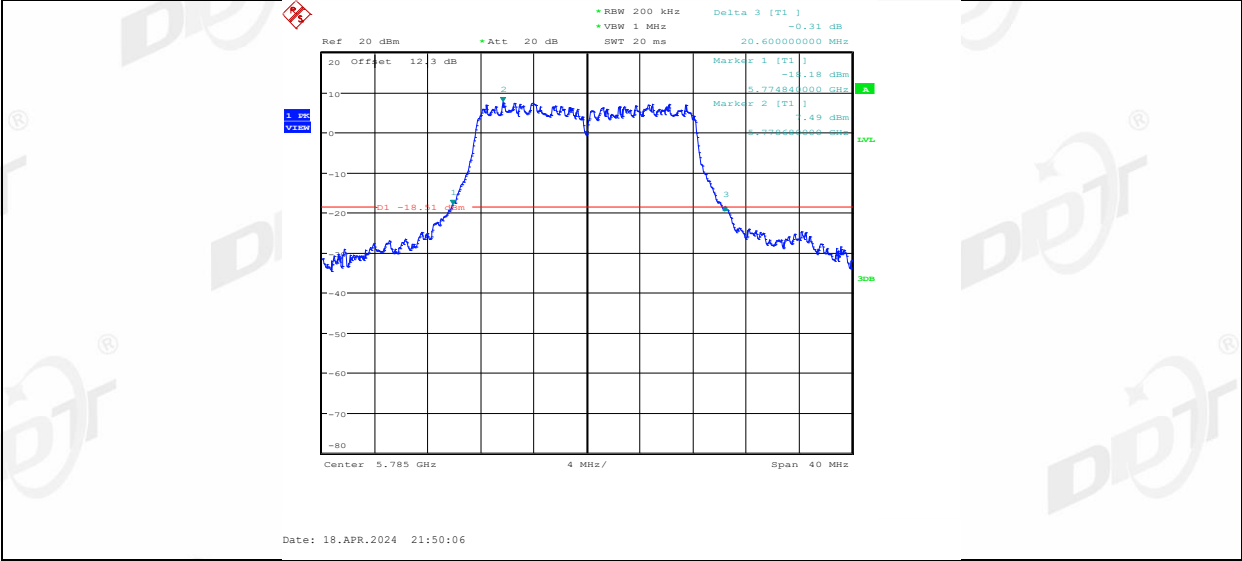
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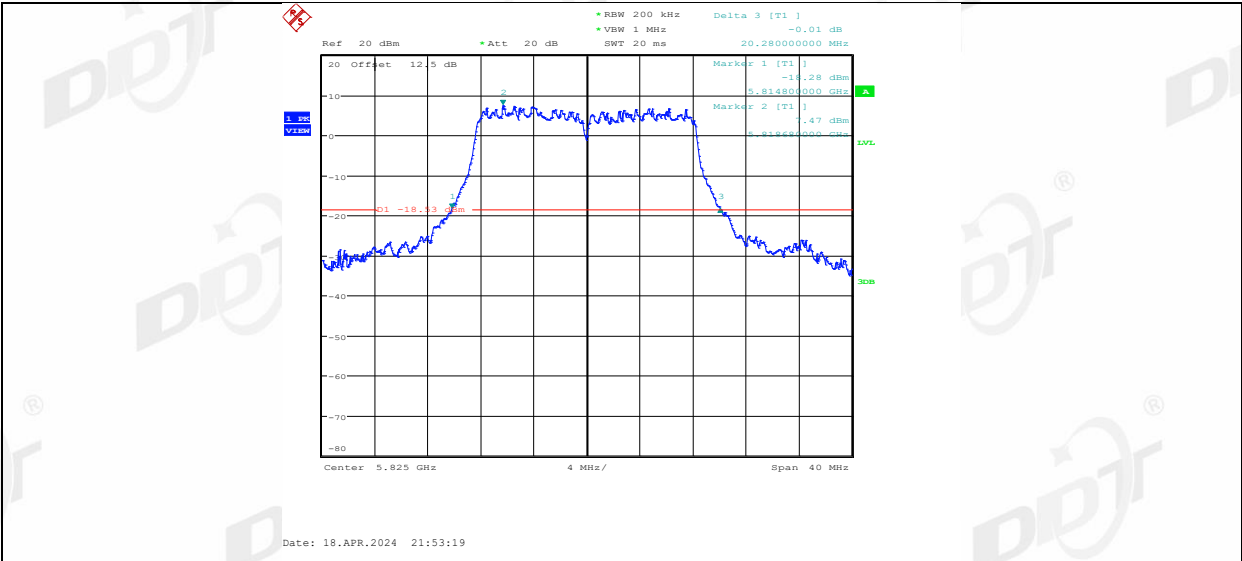
11A_Ant1_5745



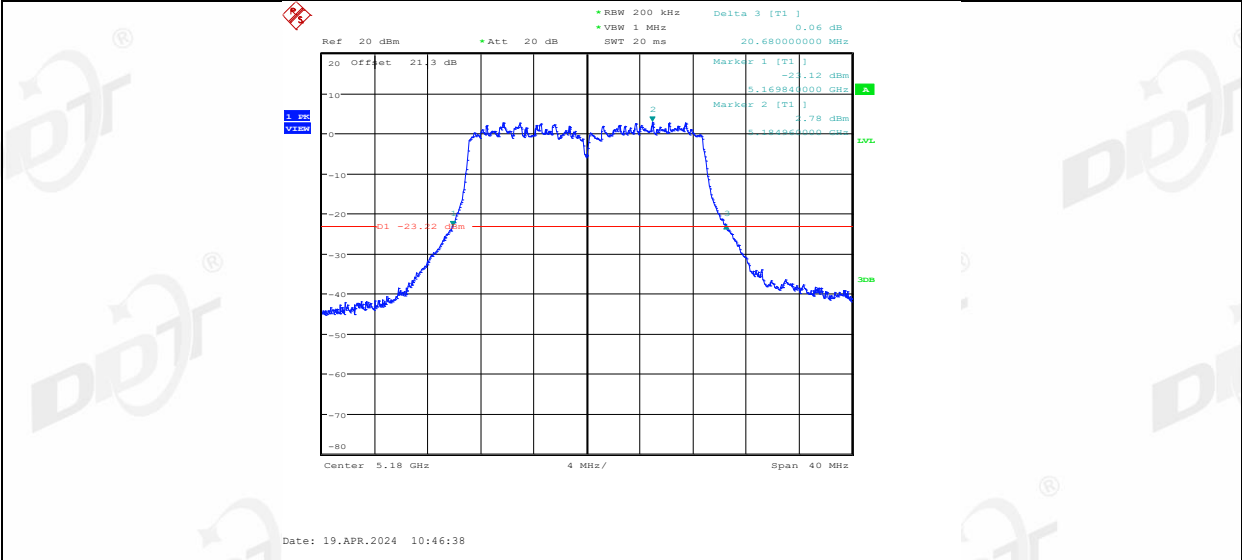
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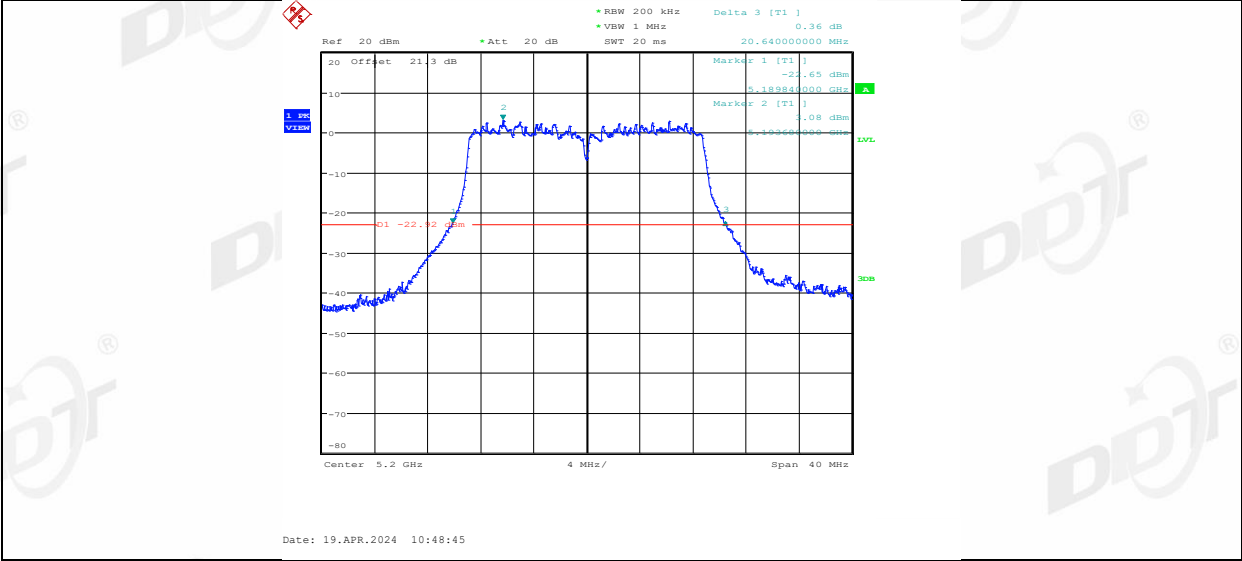
11A_Ant1_5825



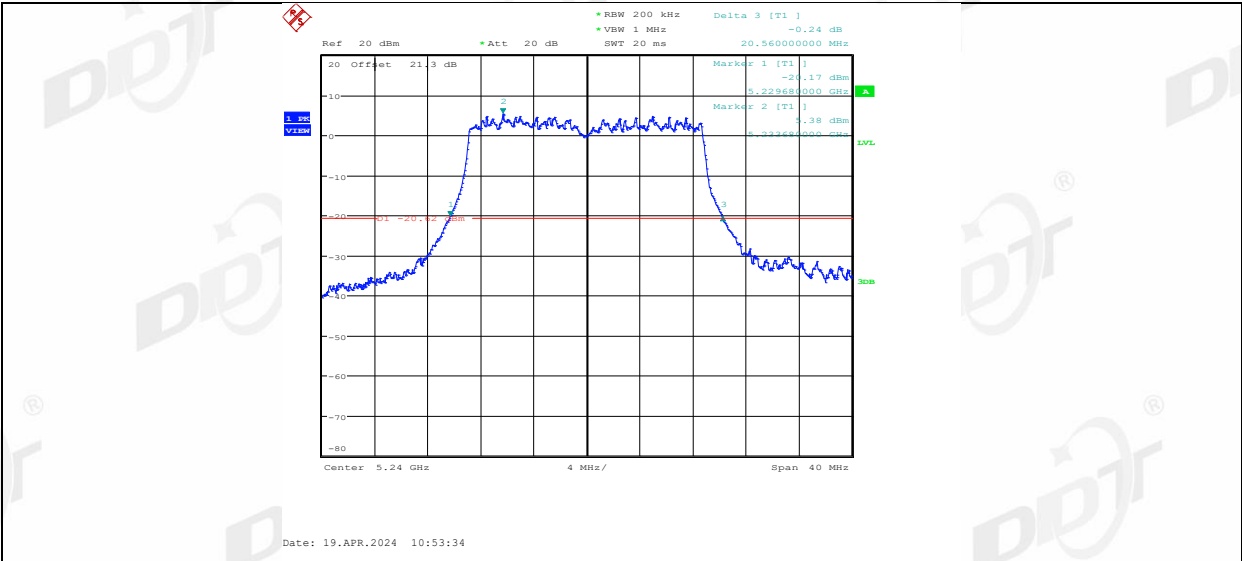
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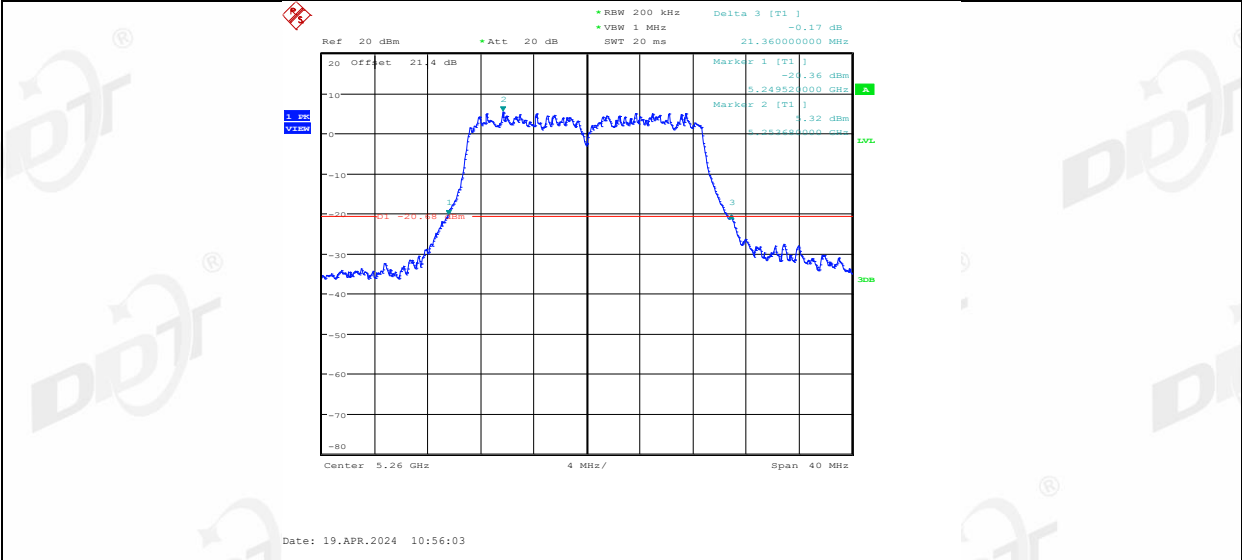
11N20SISO_Ant1_5200



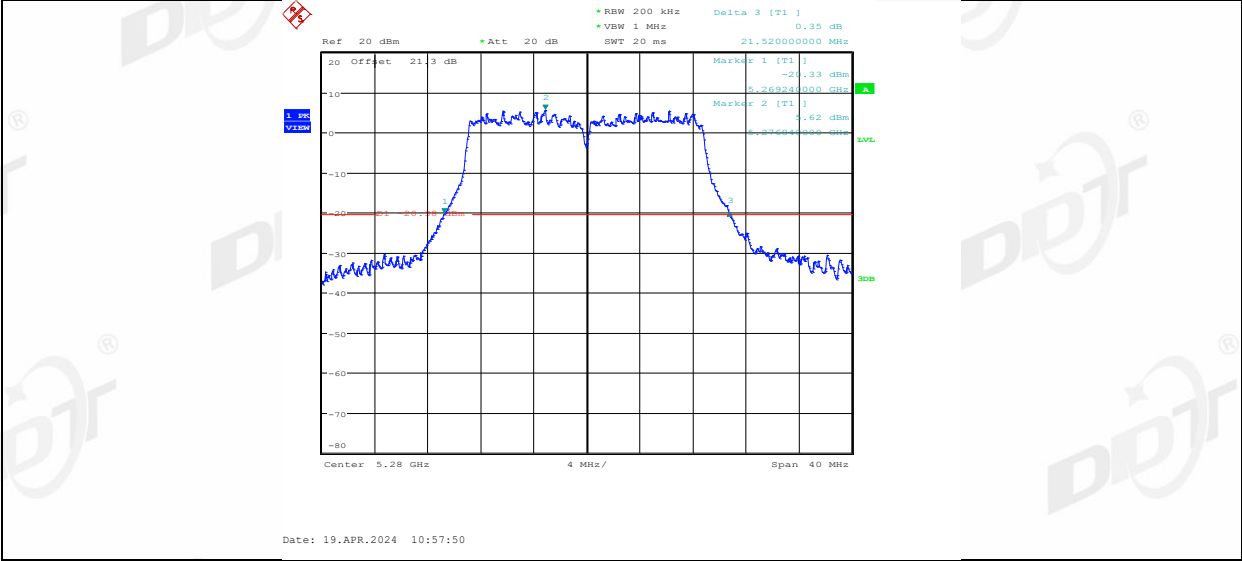
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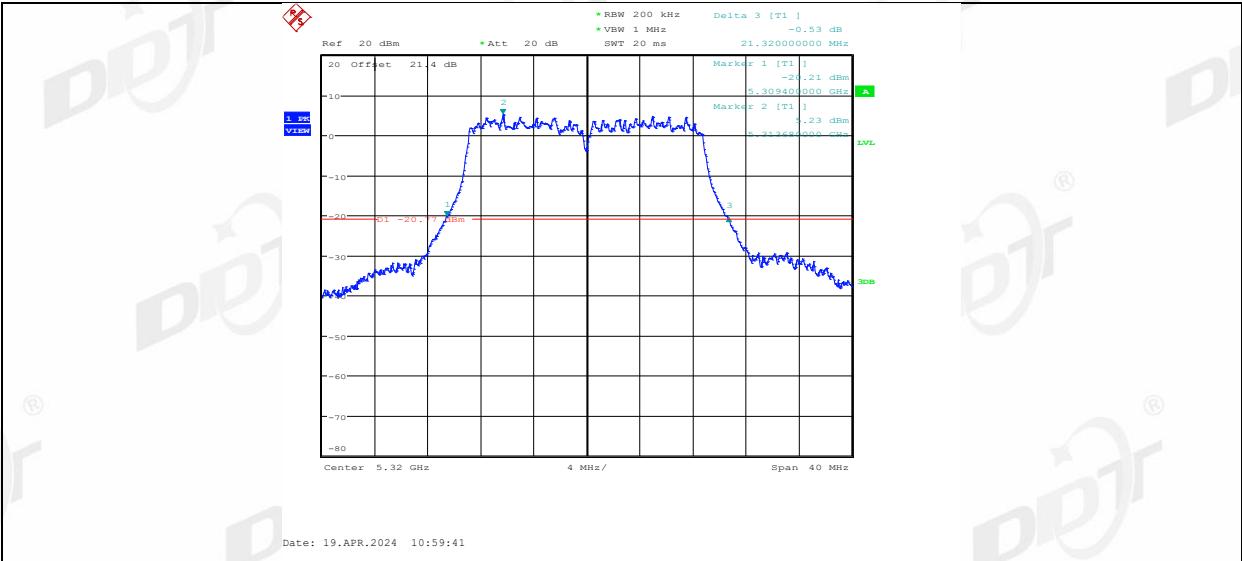
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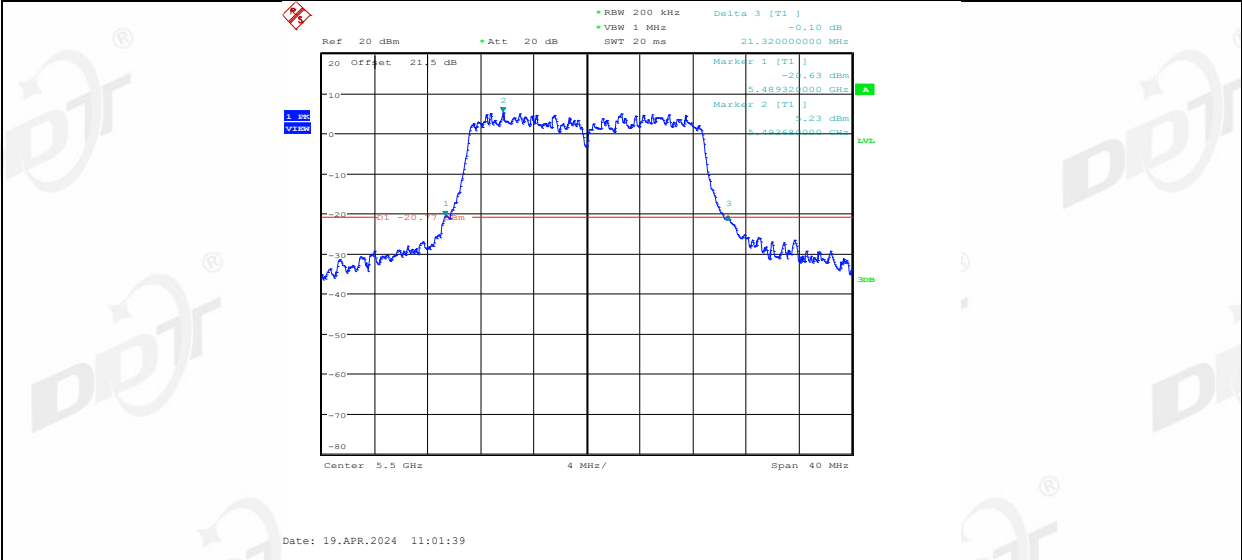
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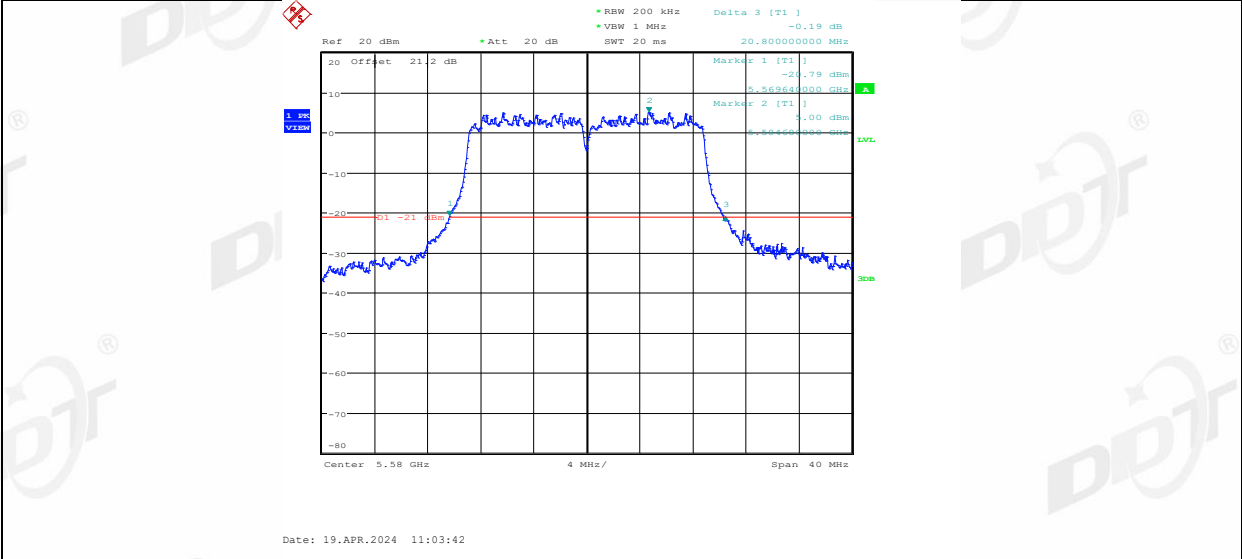
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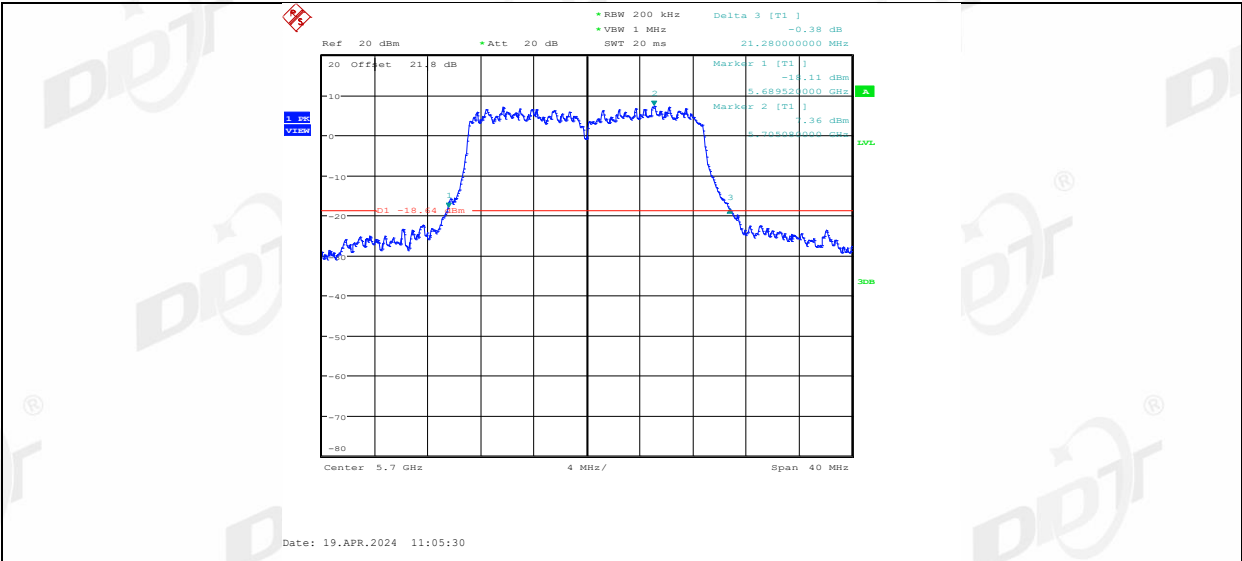
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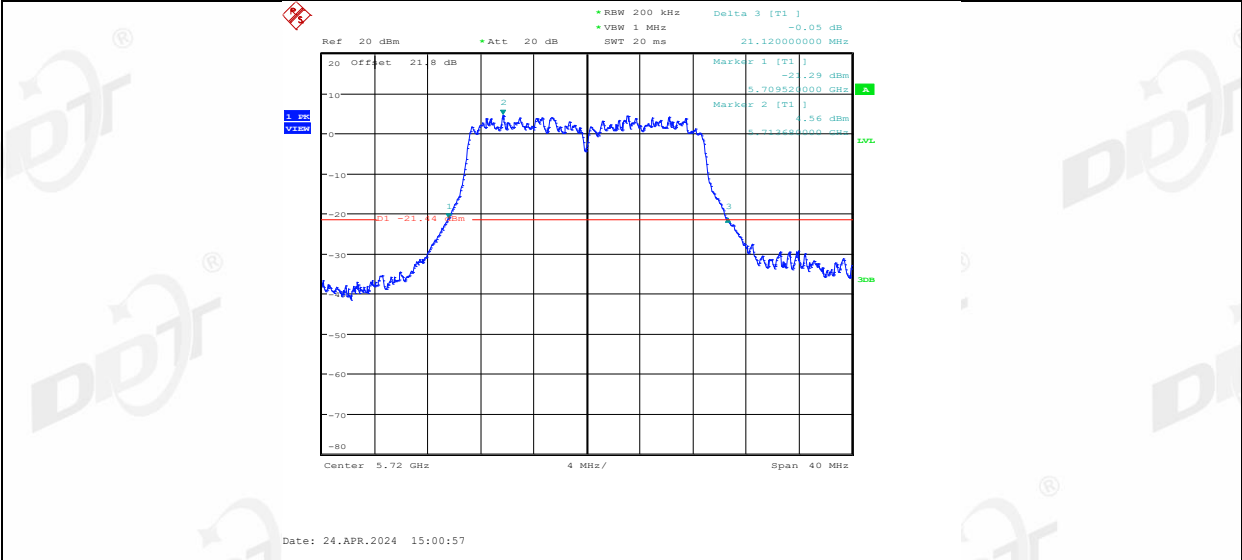
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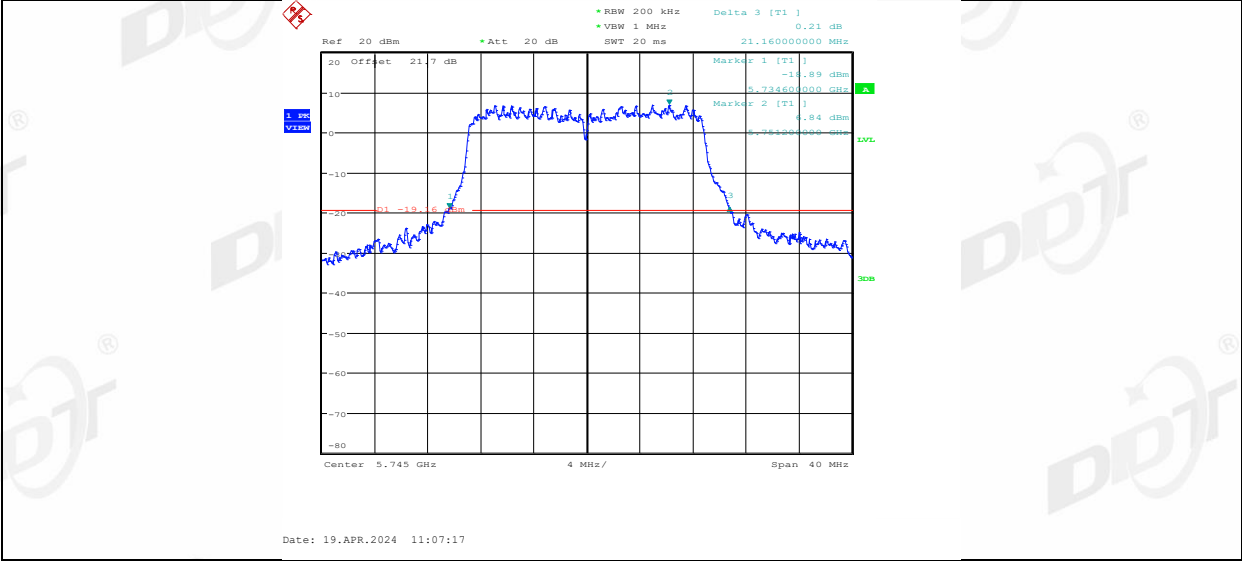
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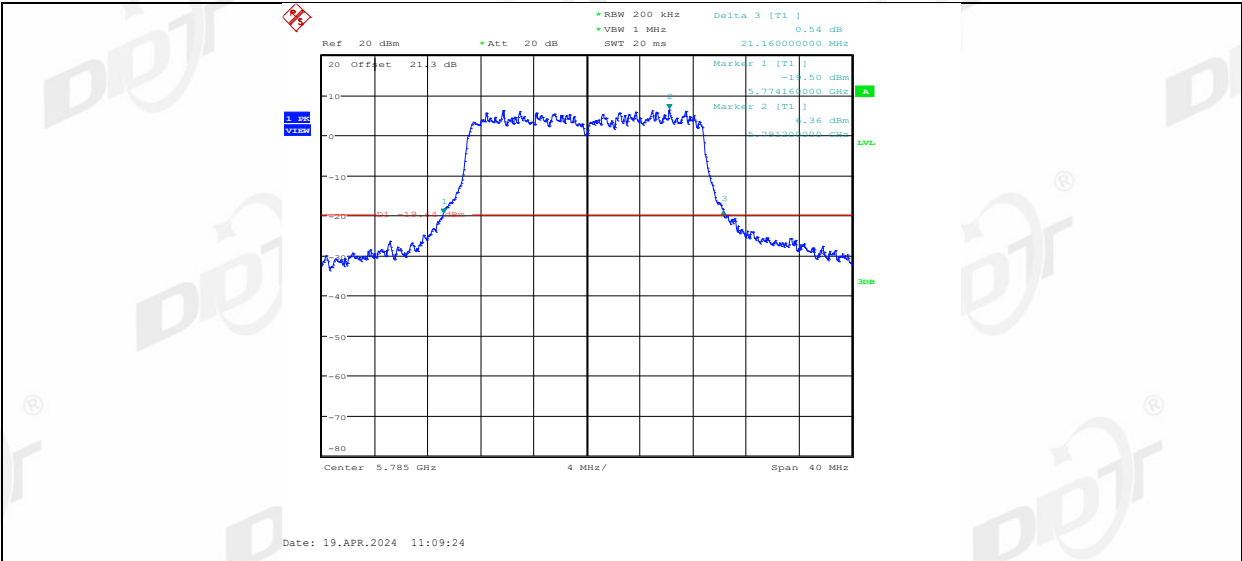
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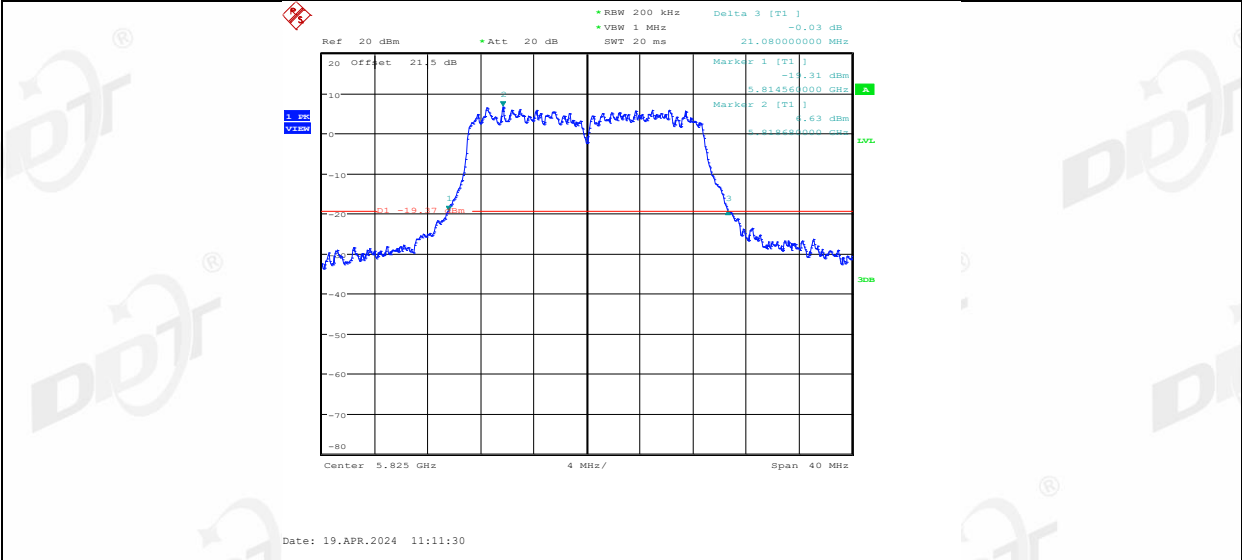
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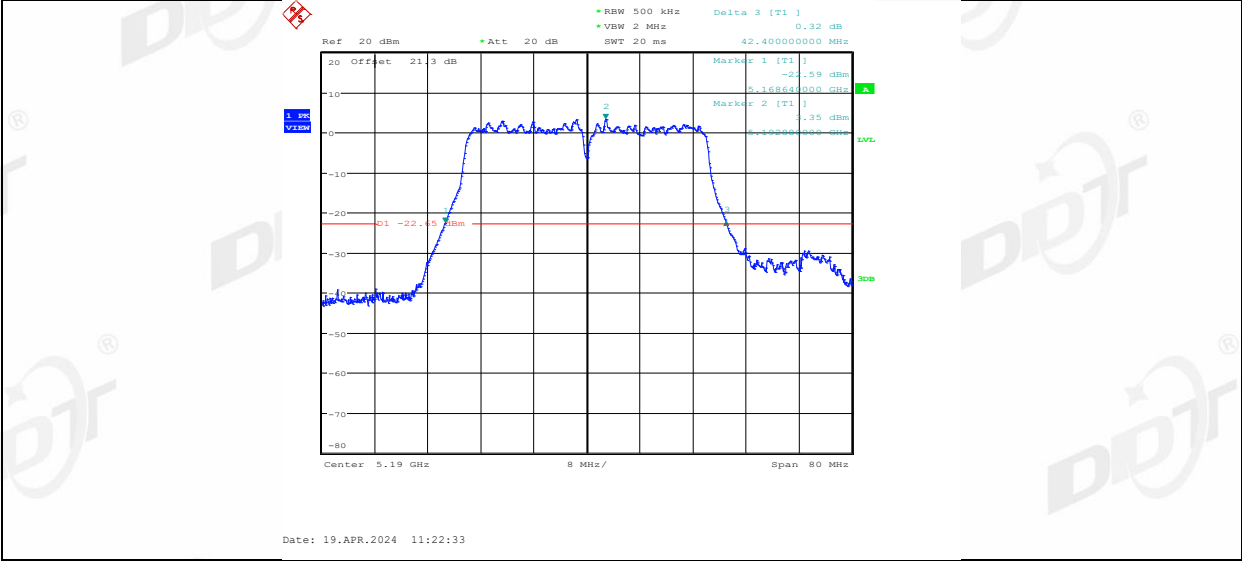
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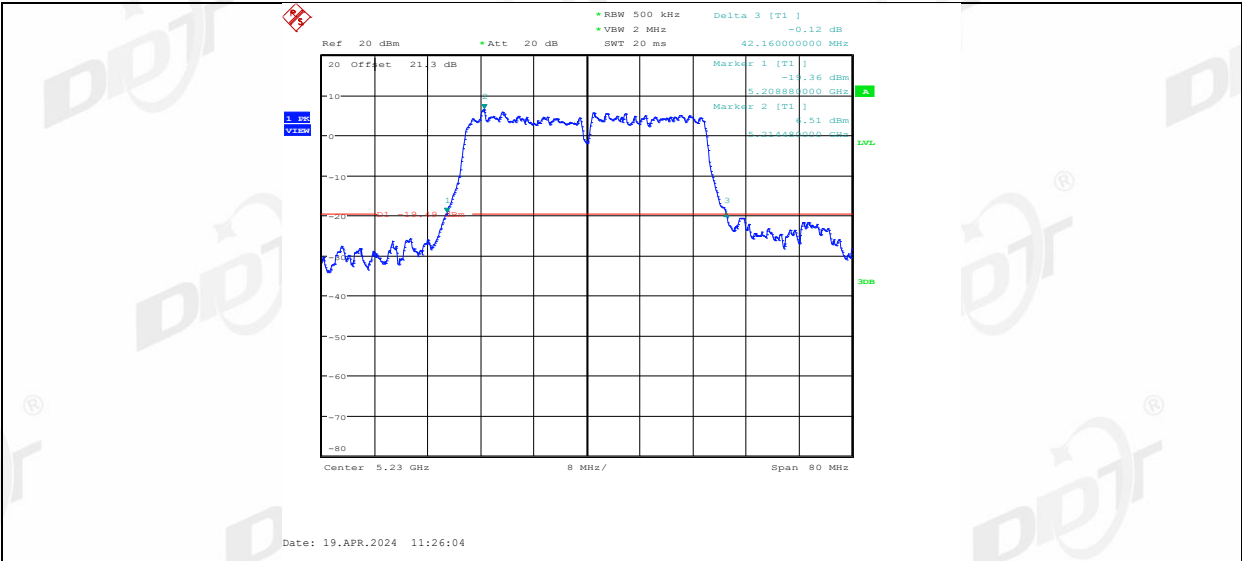
11N20SISO_Ant1_5825



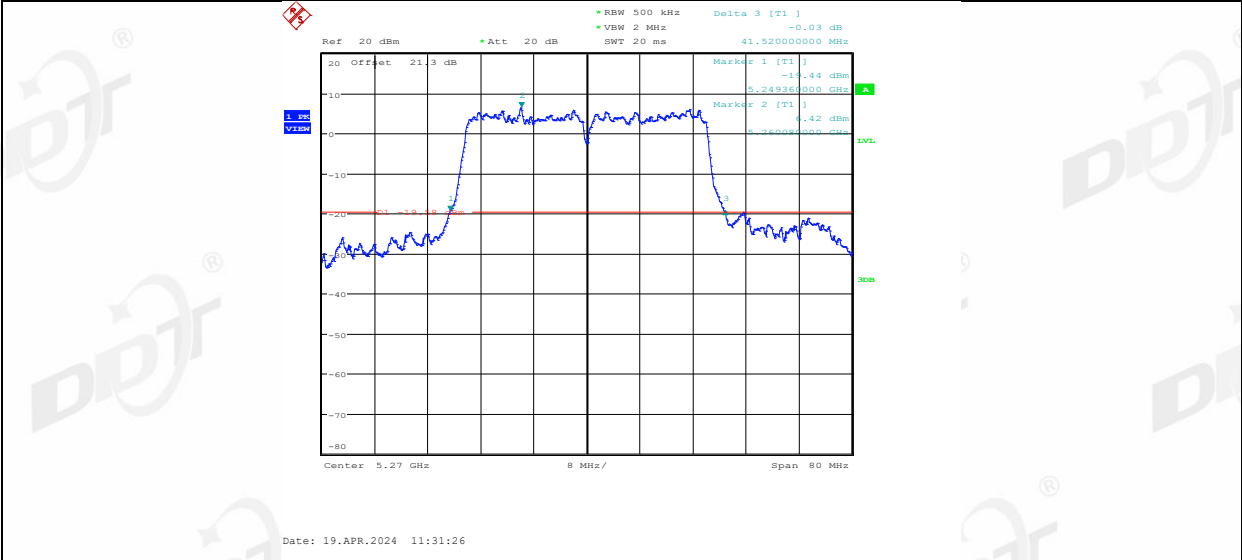
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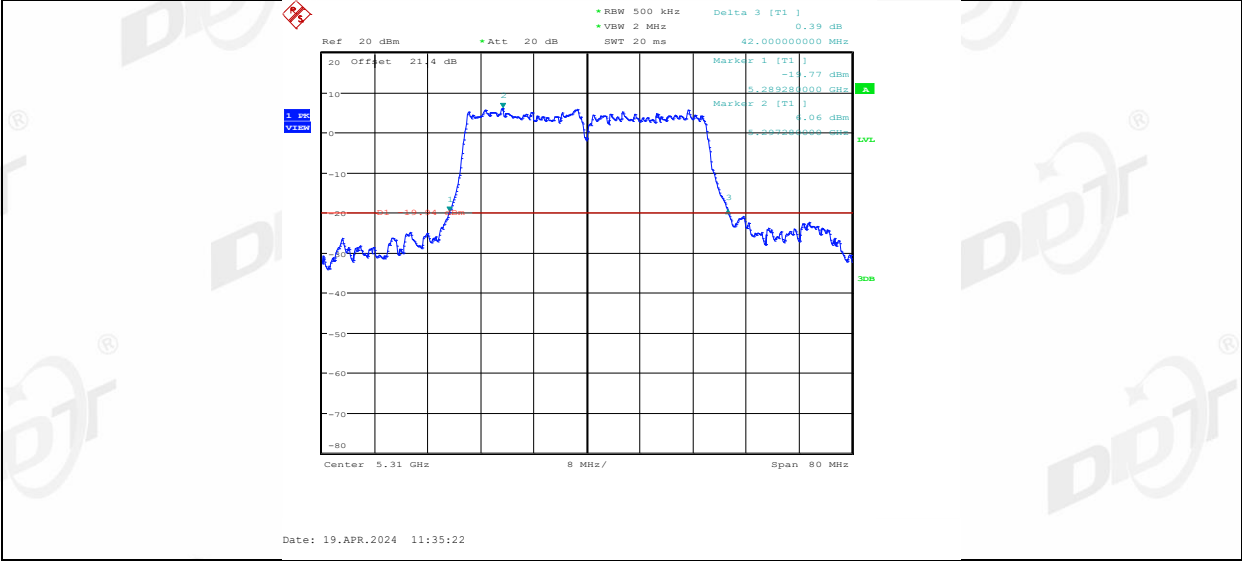
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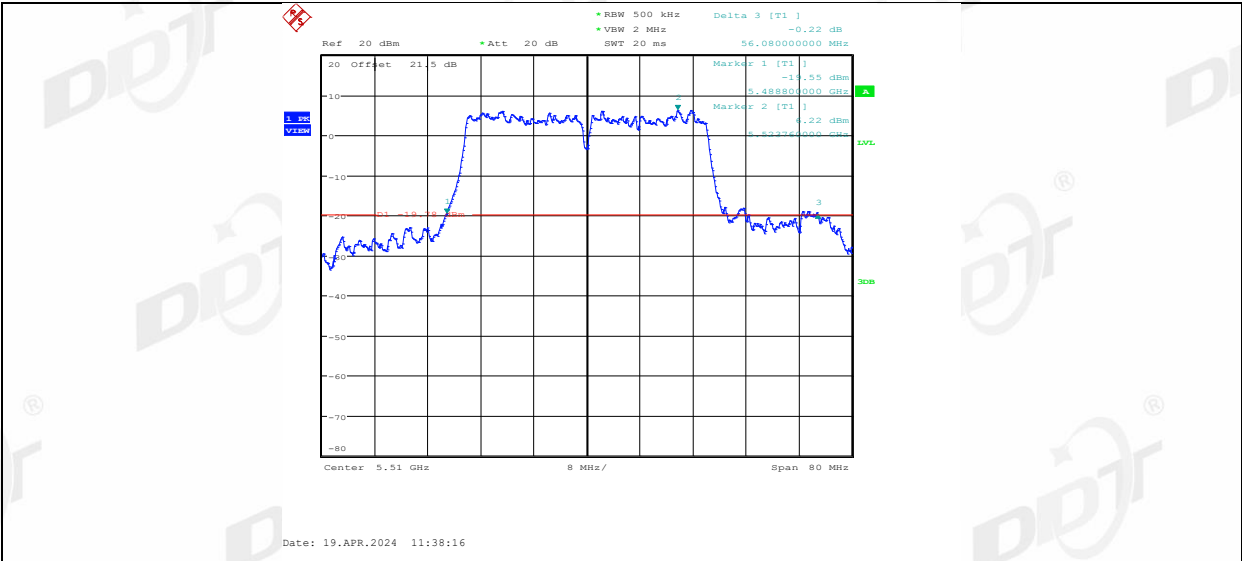
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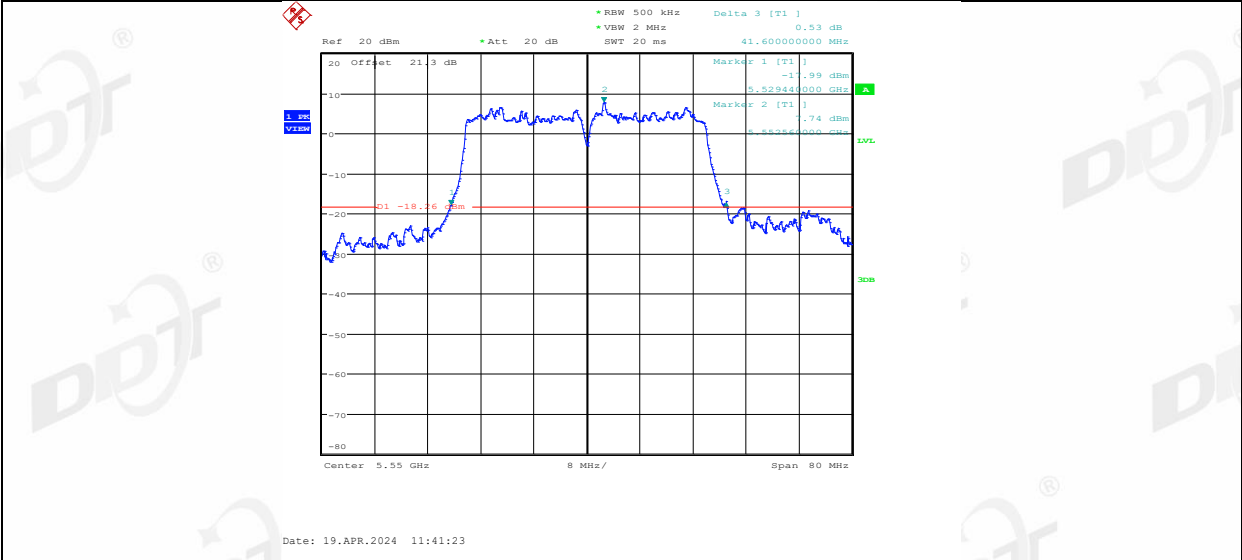
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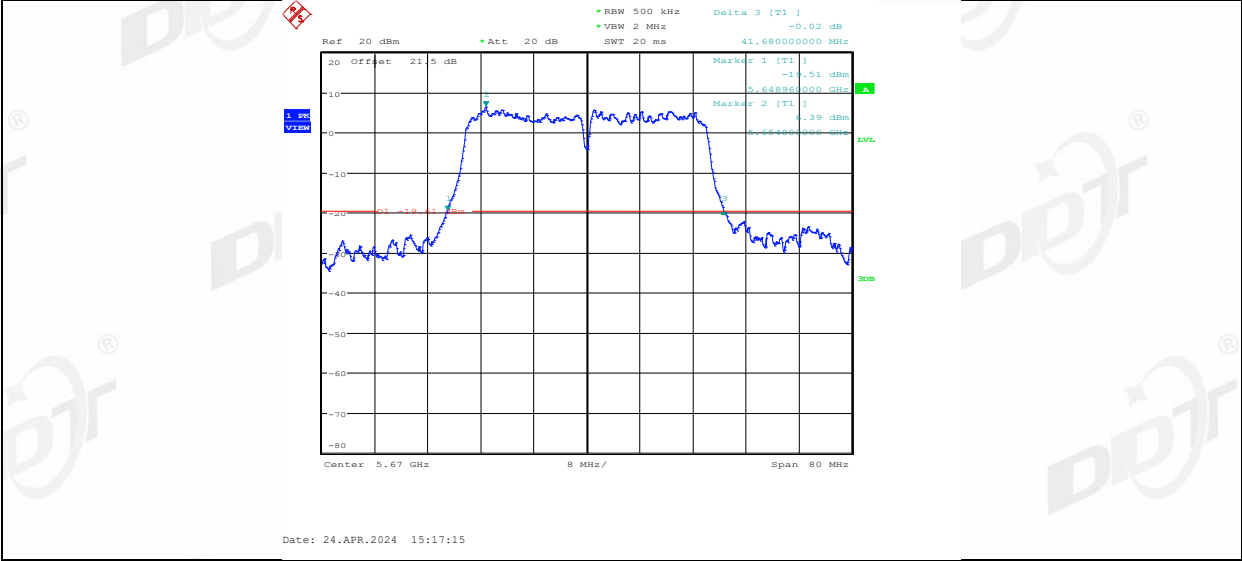
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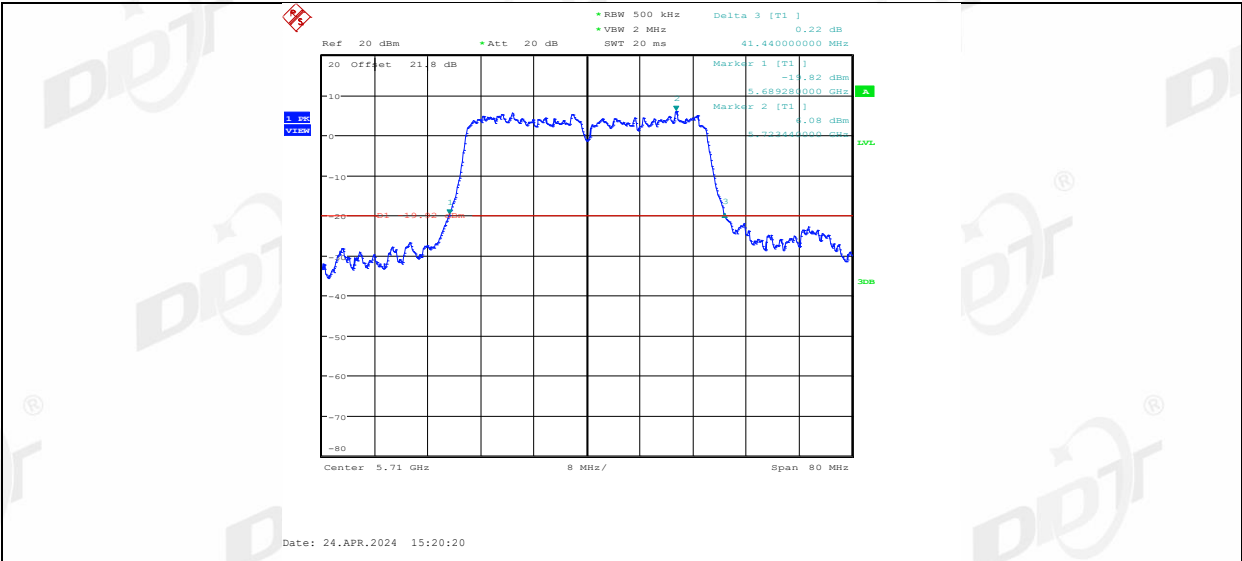
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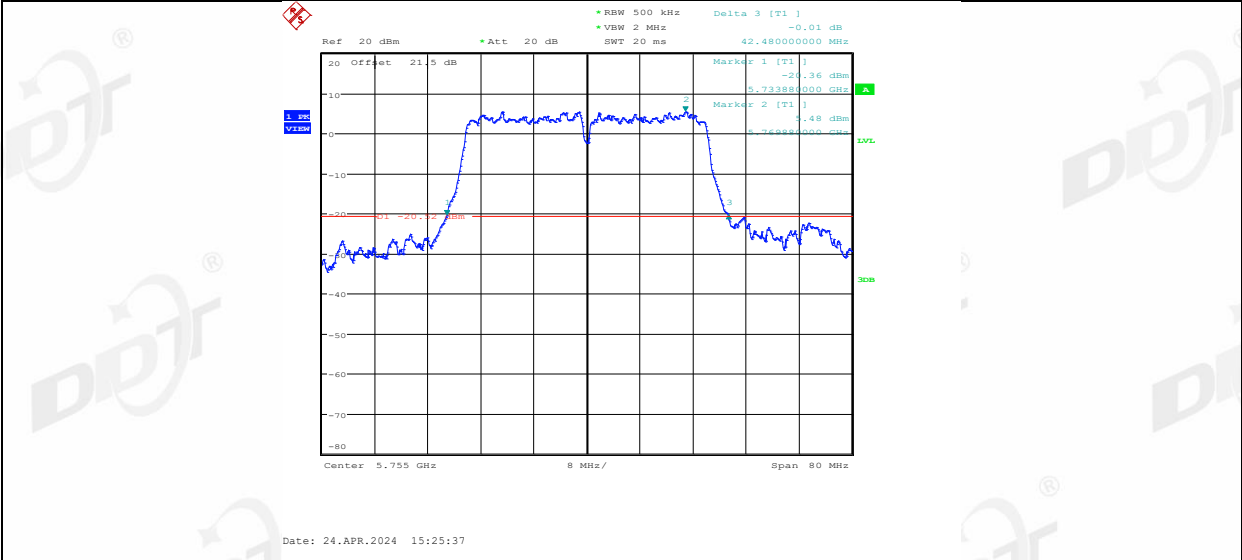
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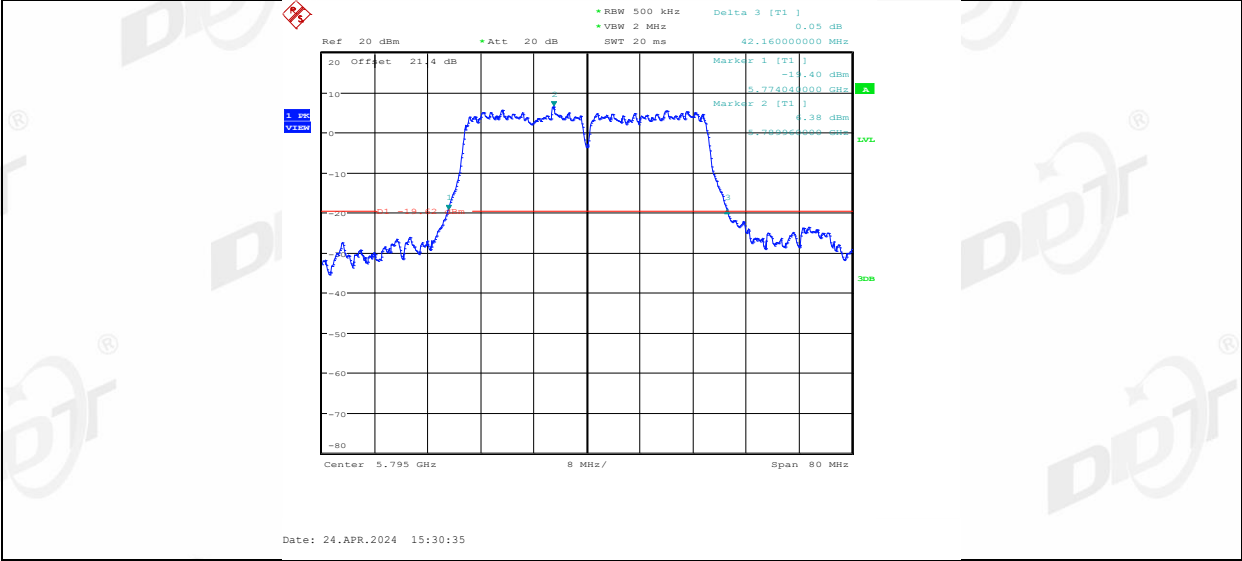
11N40SISO_Ant1_5710



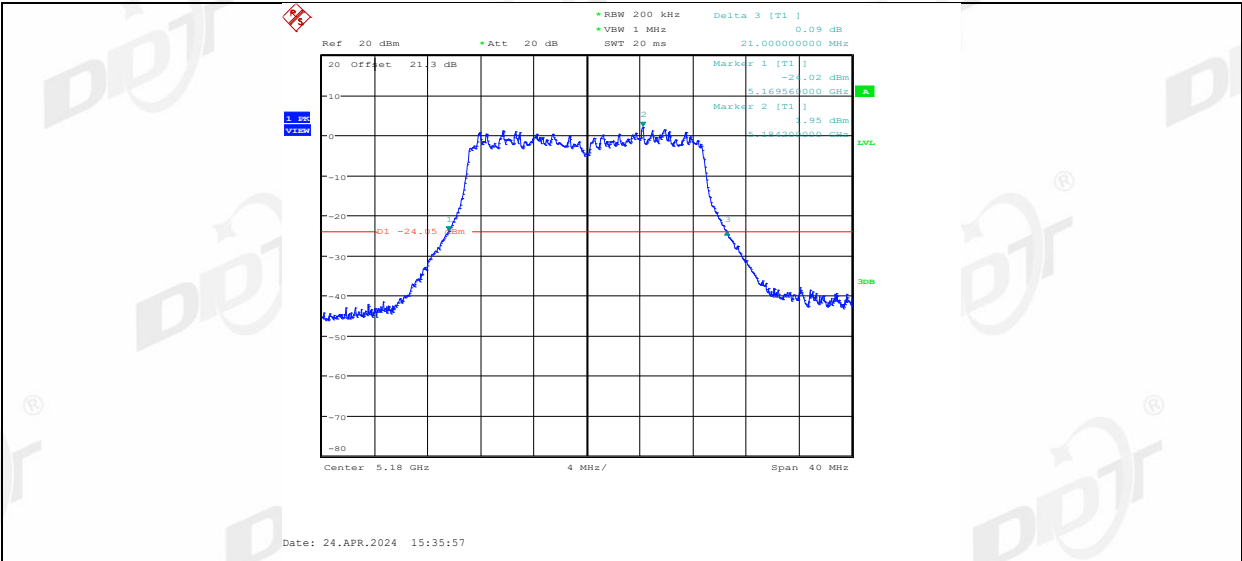
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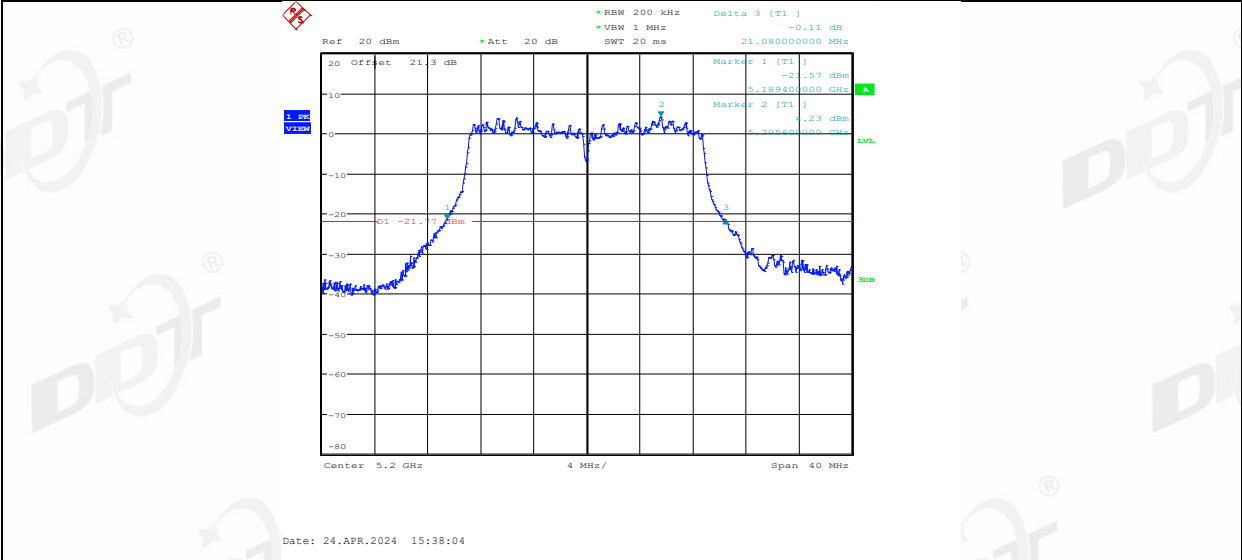
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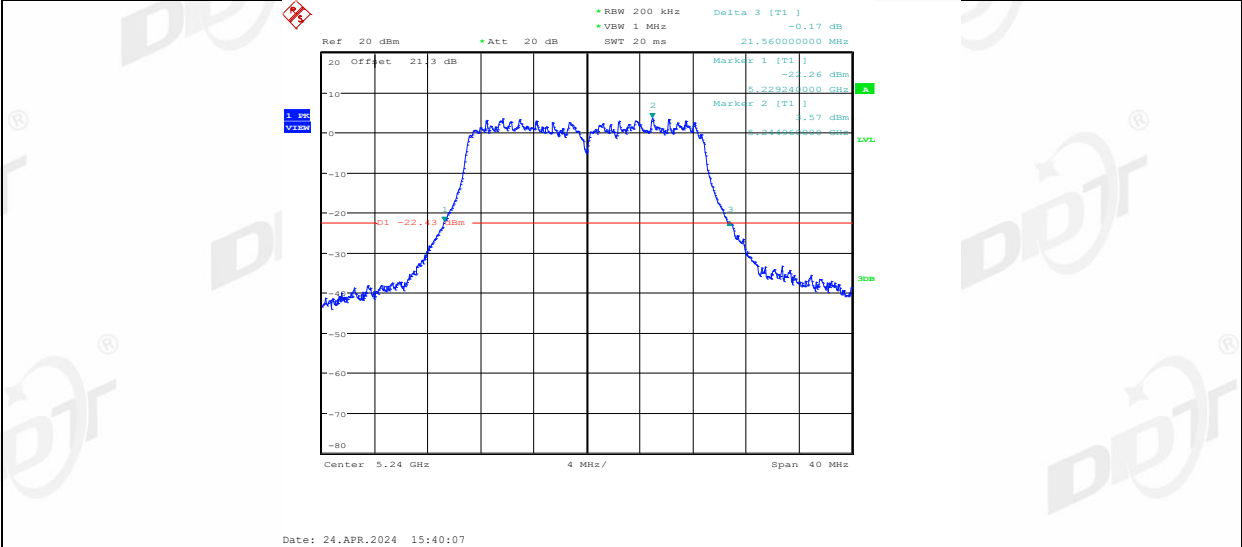
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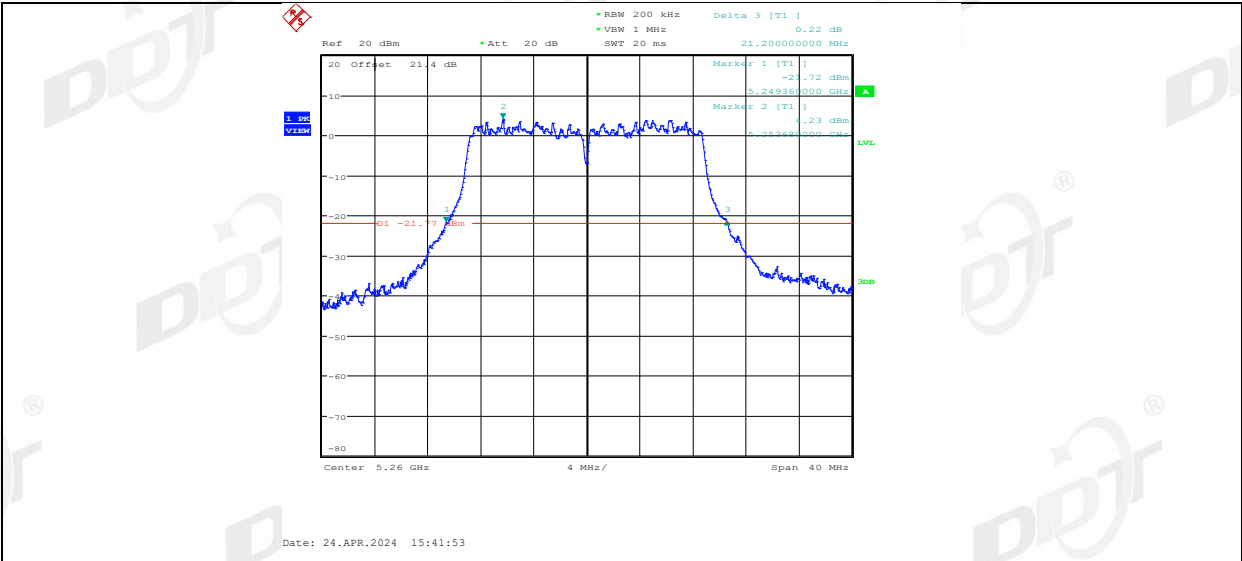
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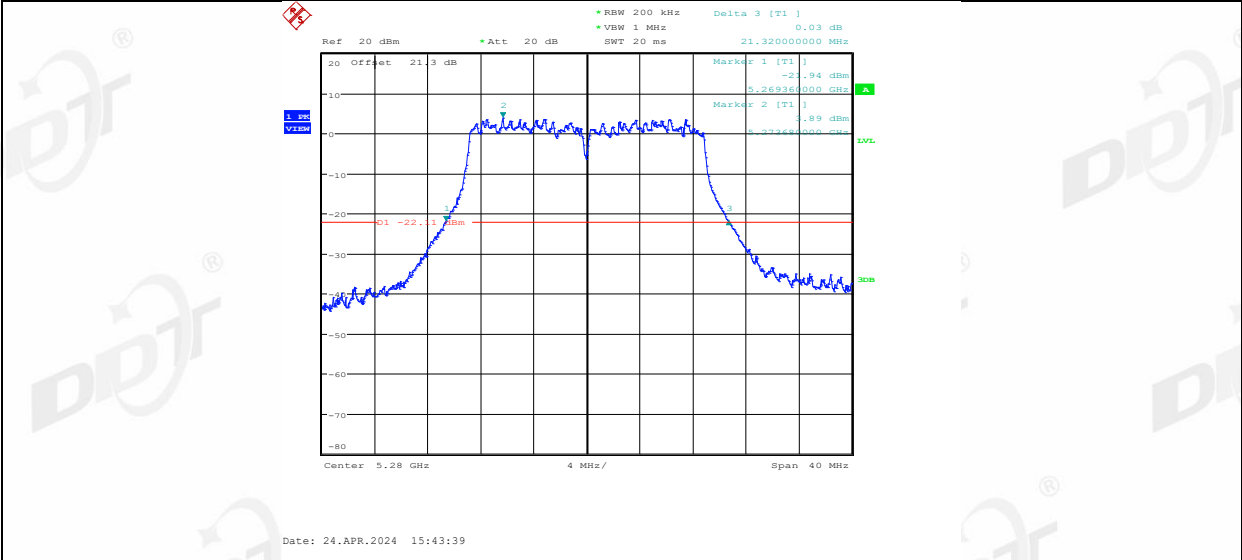
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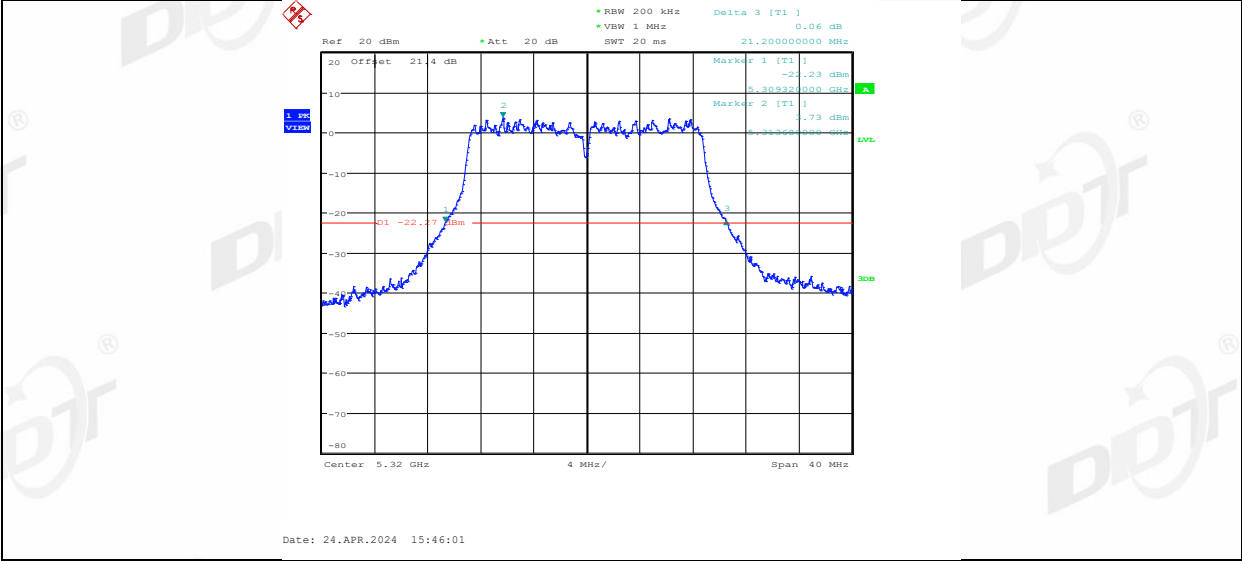
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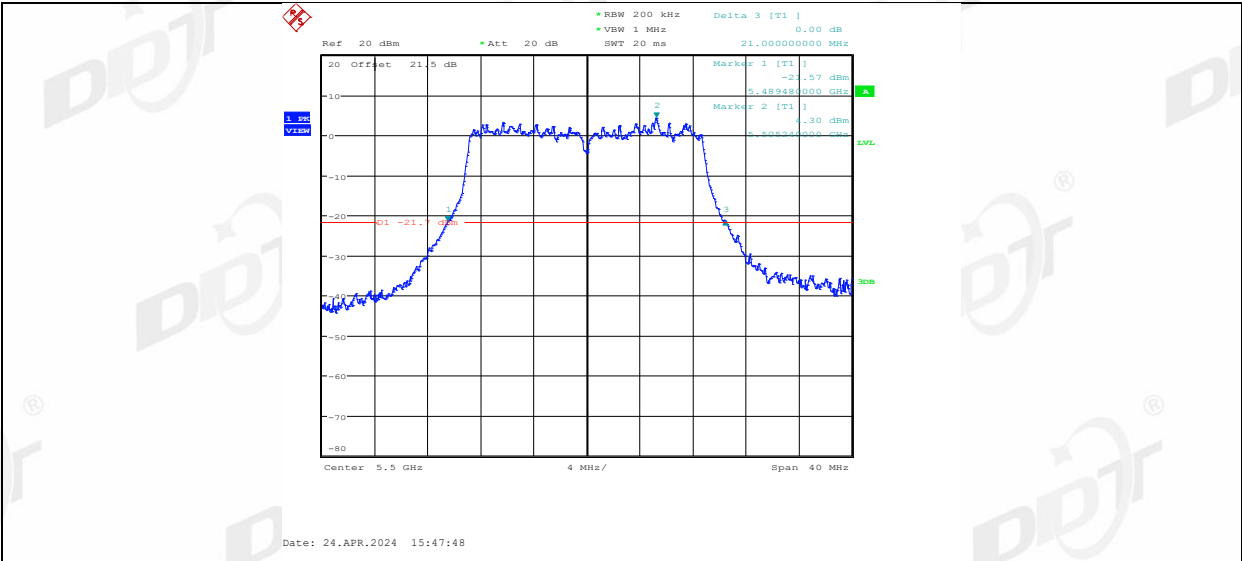
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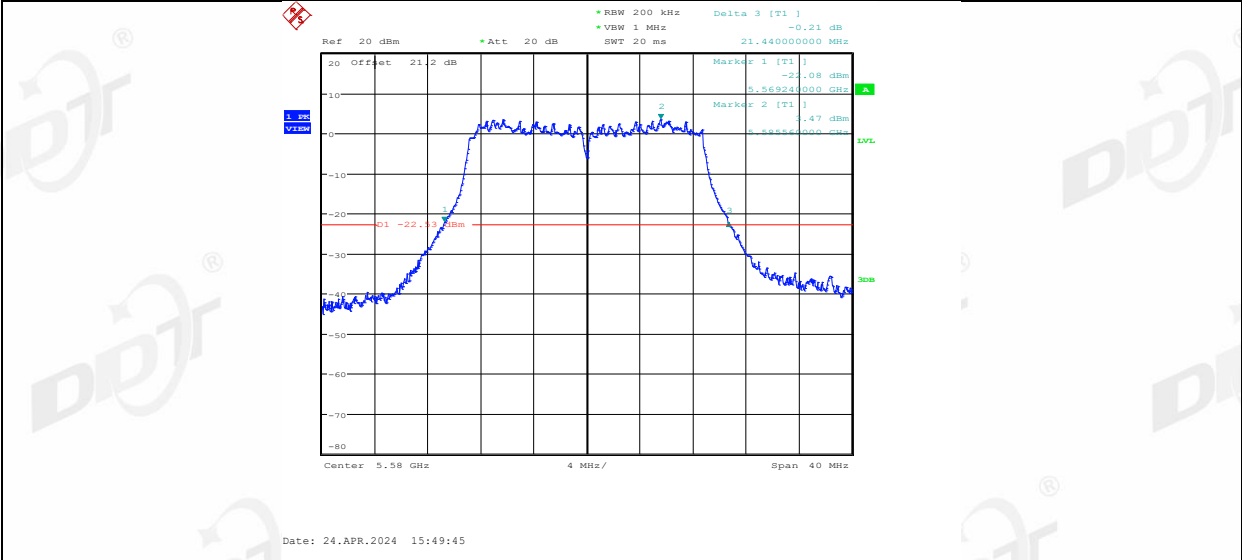
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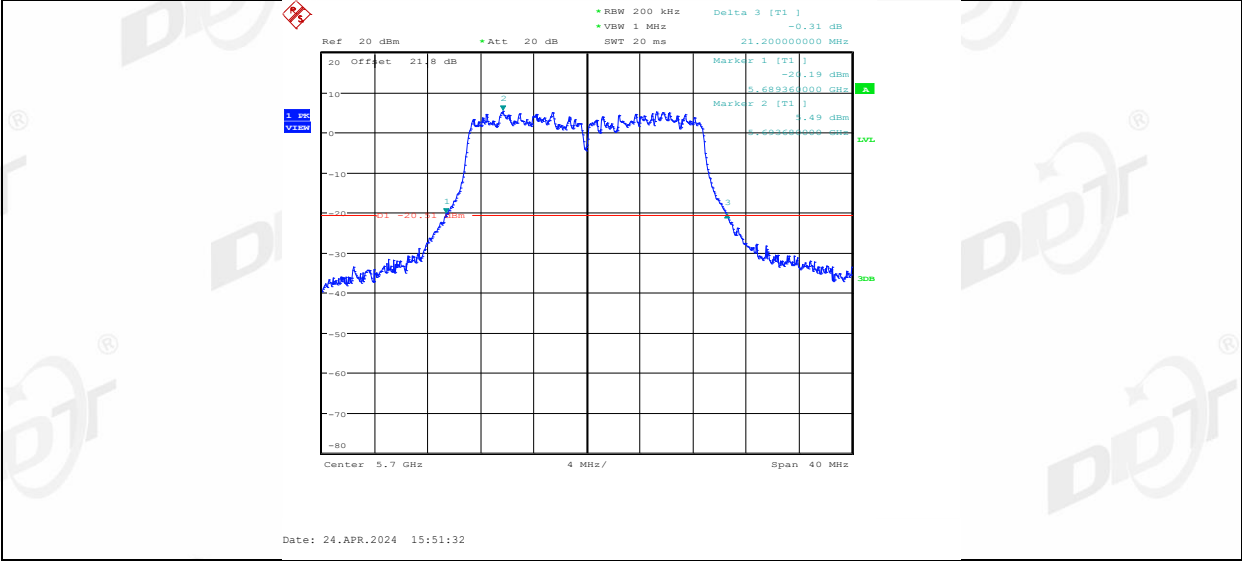
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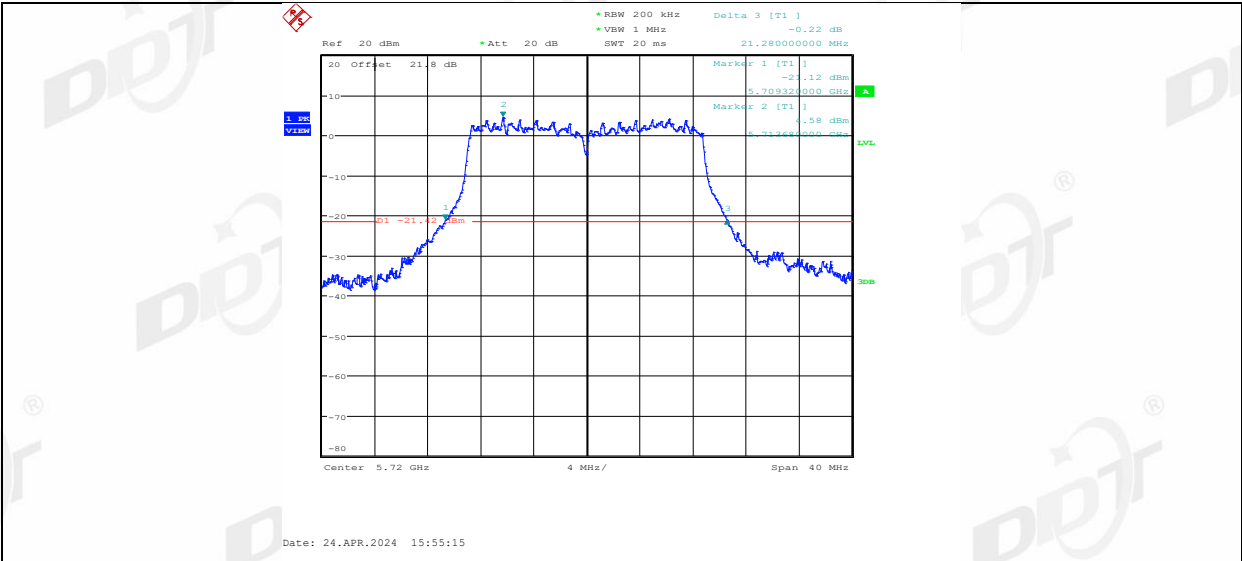
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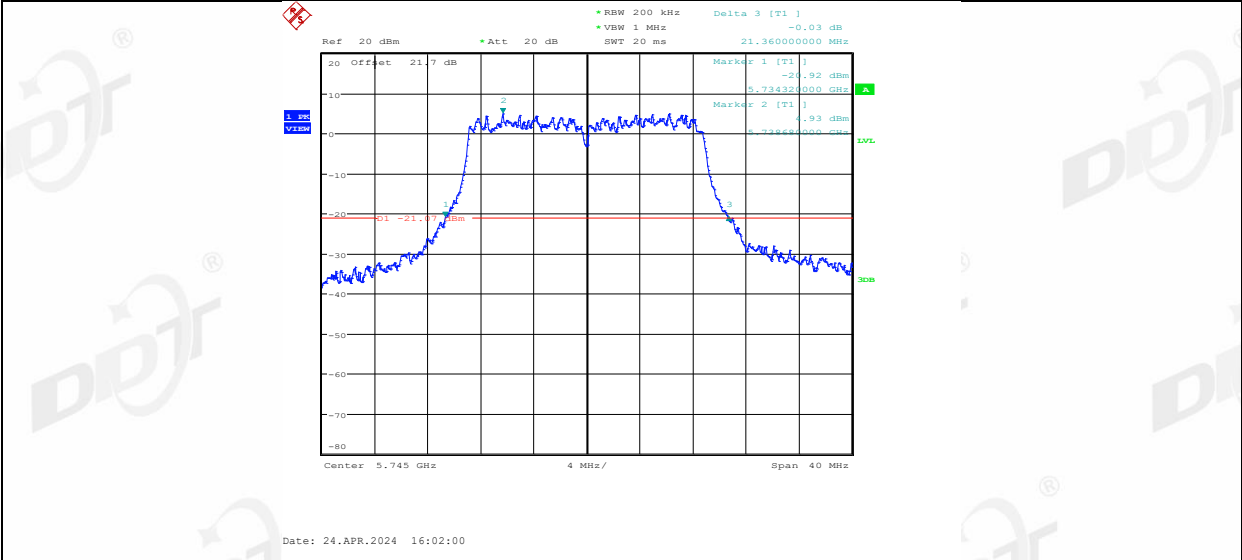
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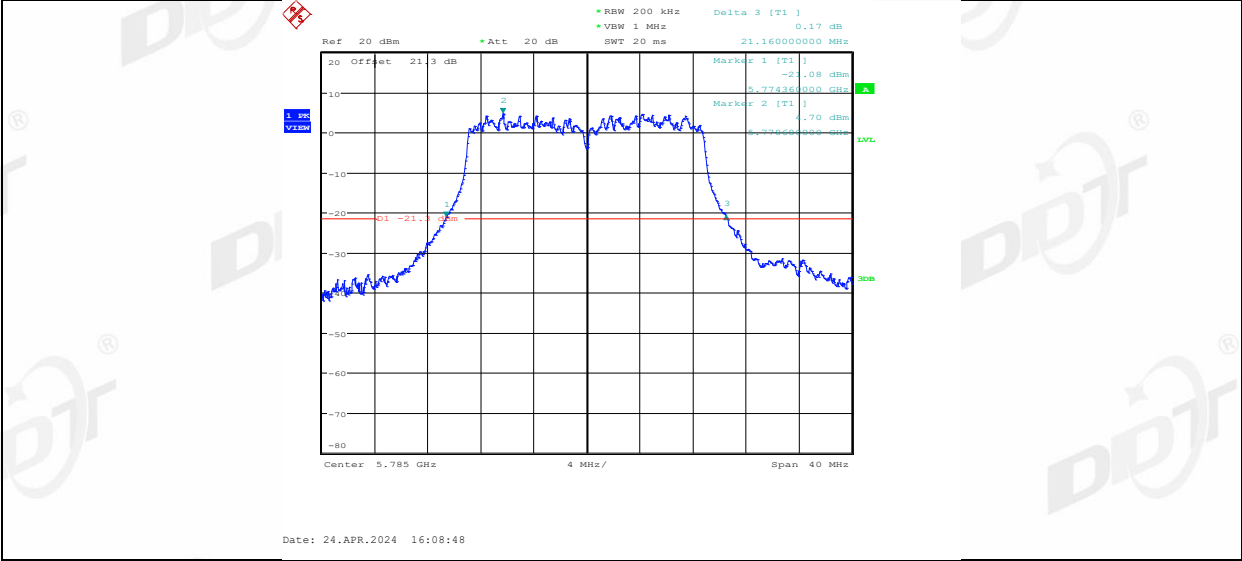
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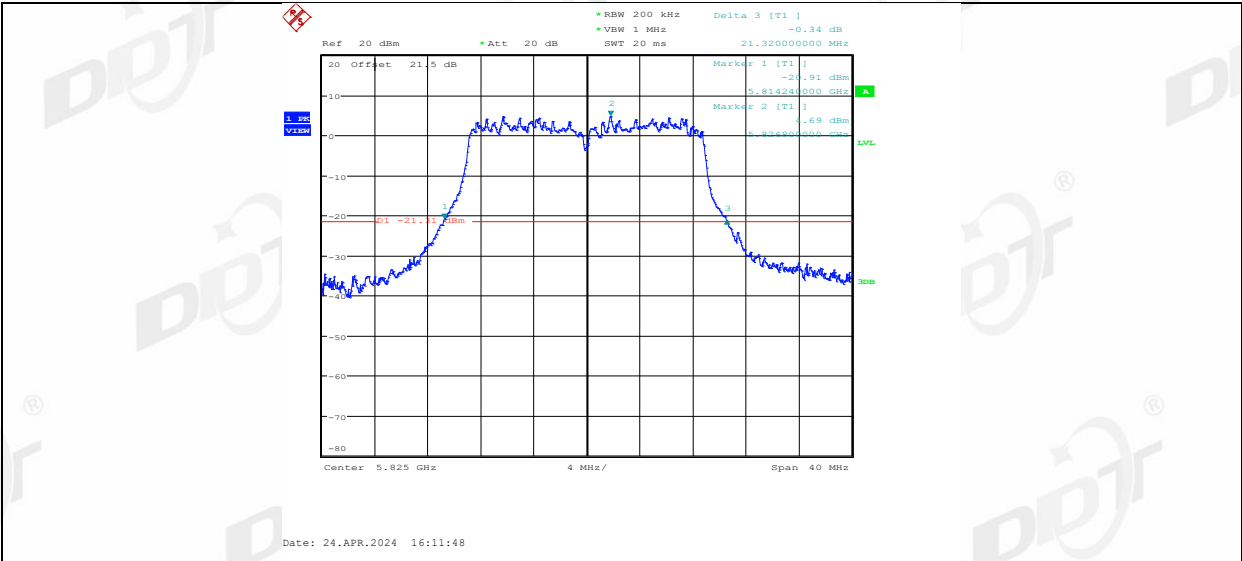
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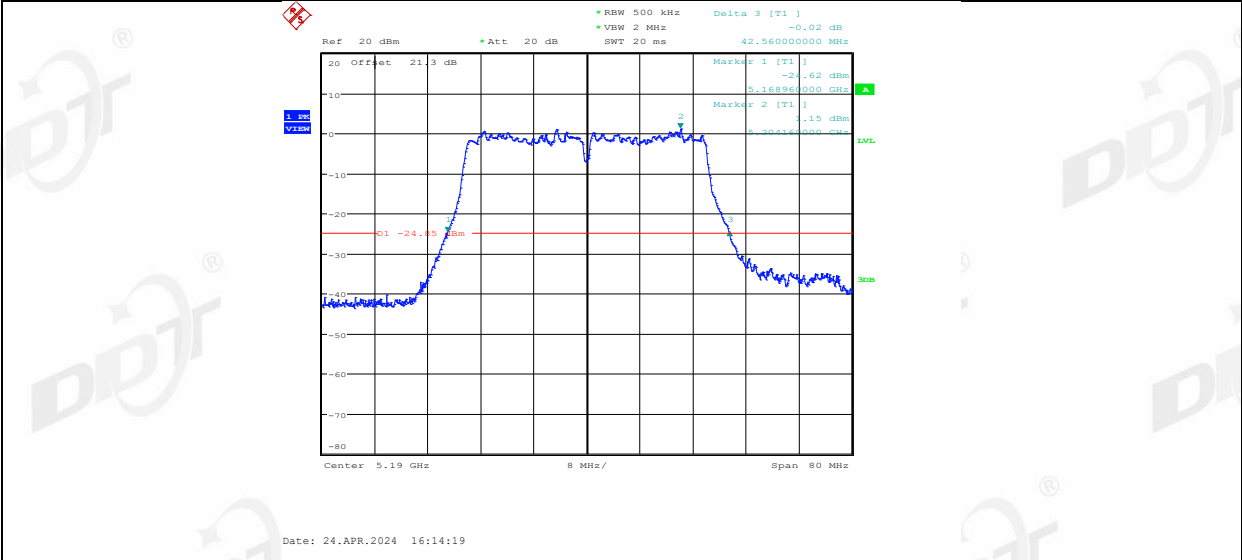
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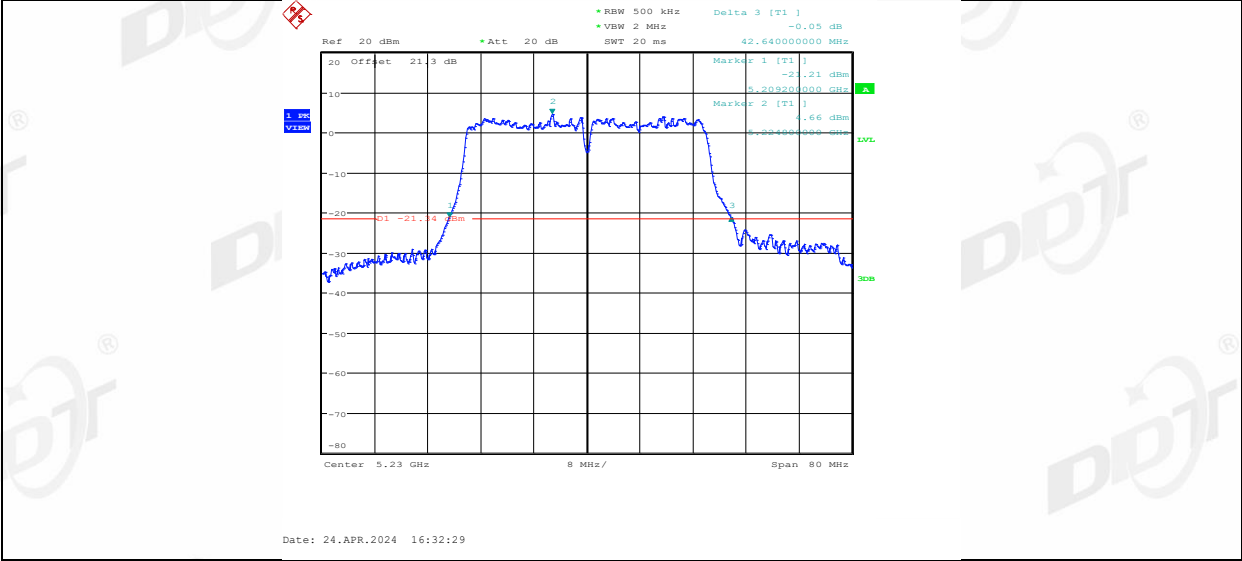
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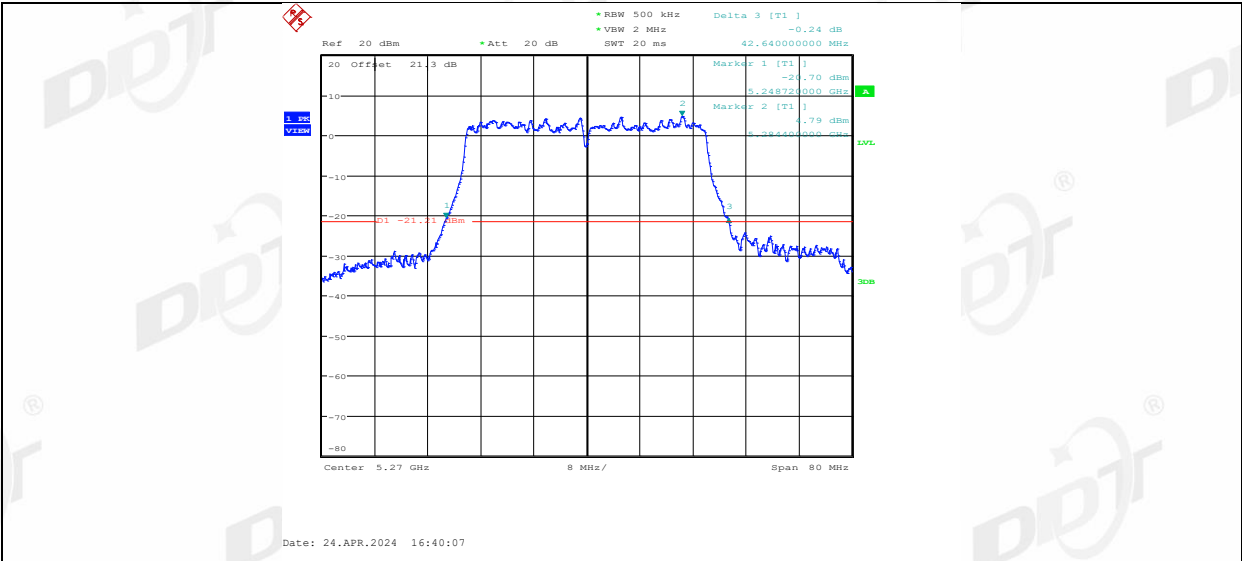
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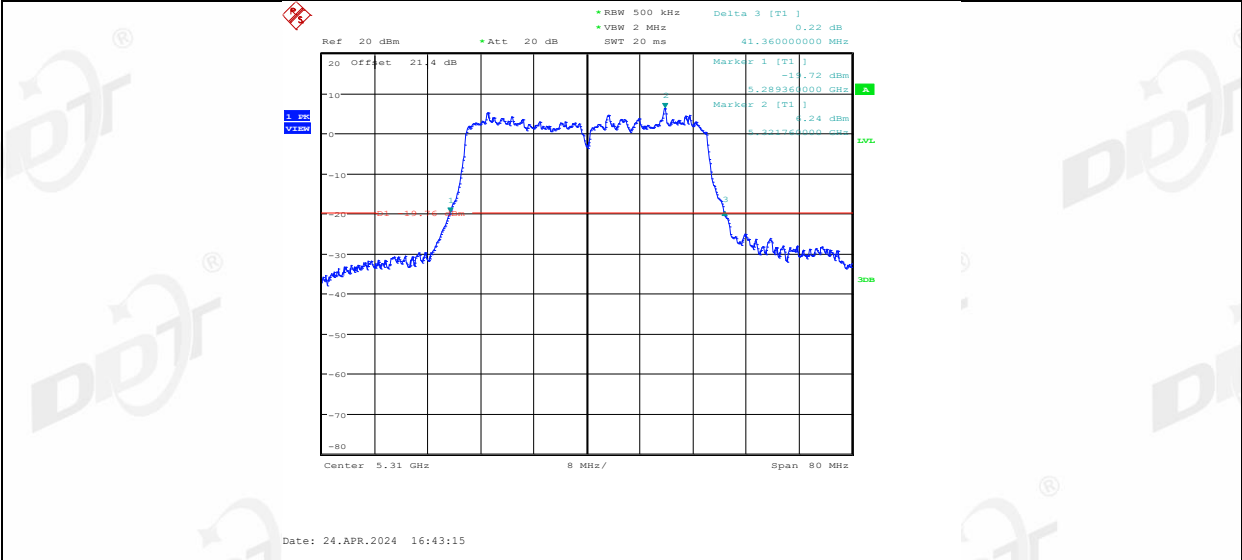
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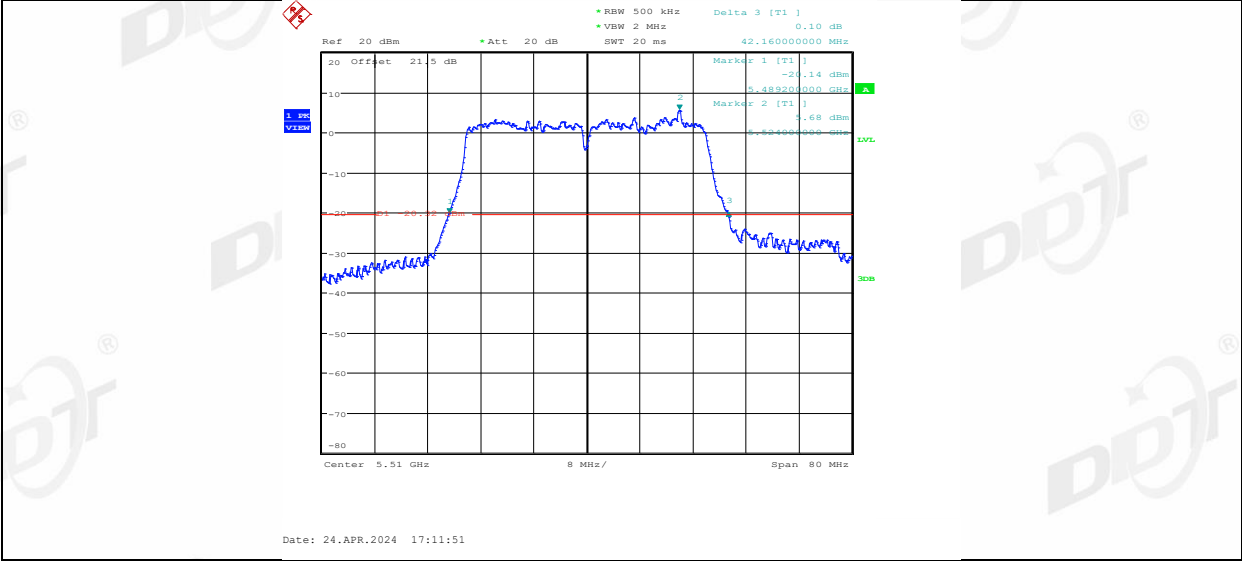
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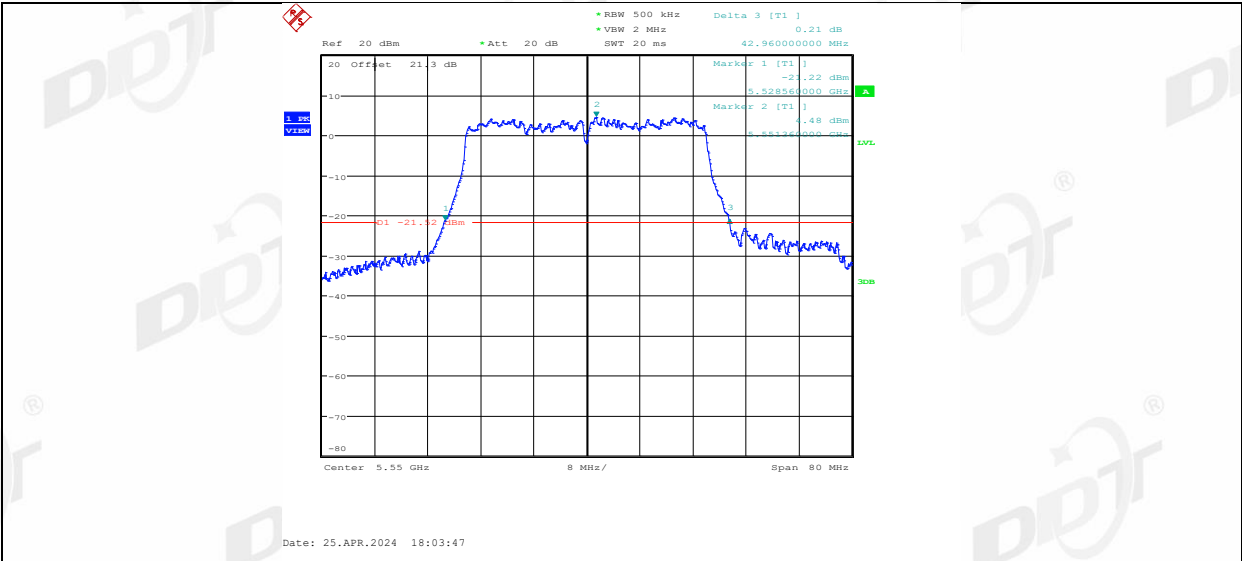
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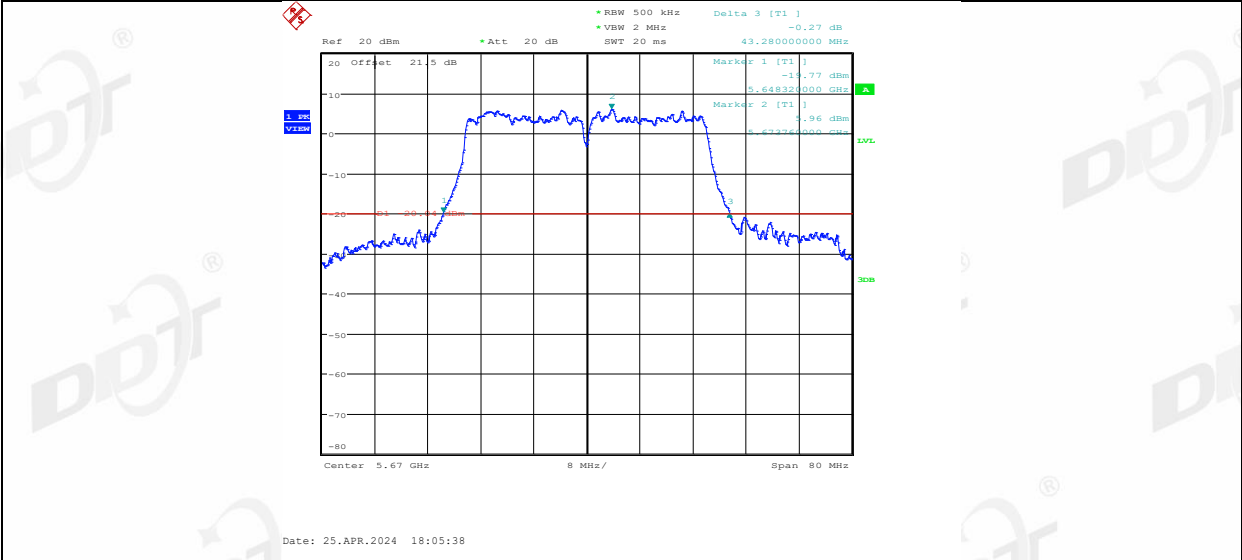
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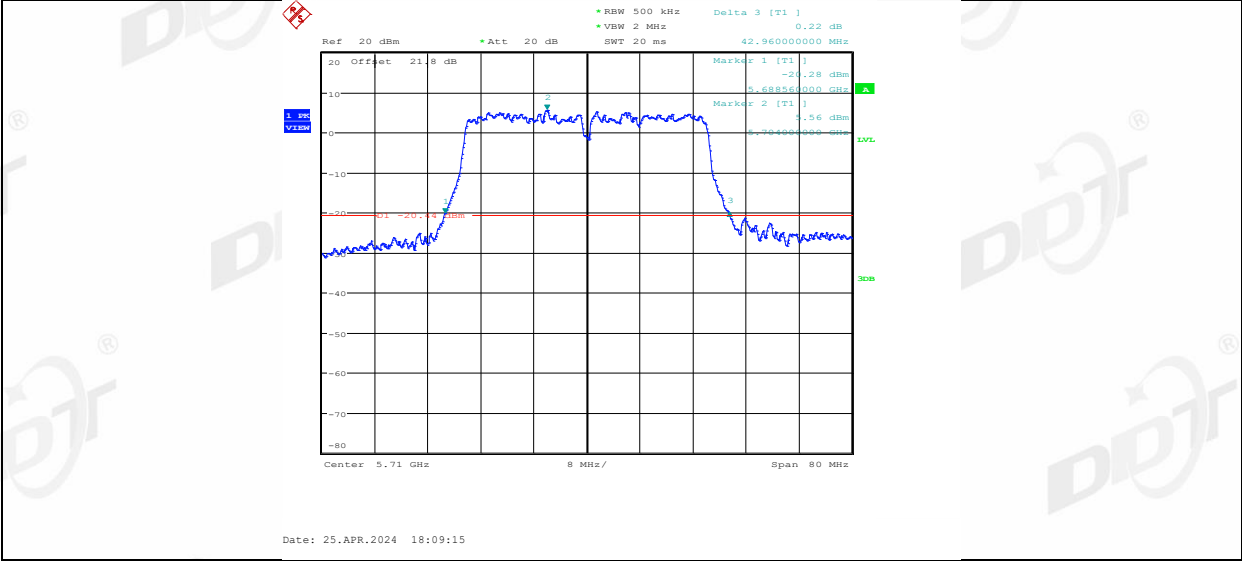
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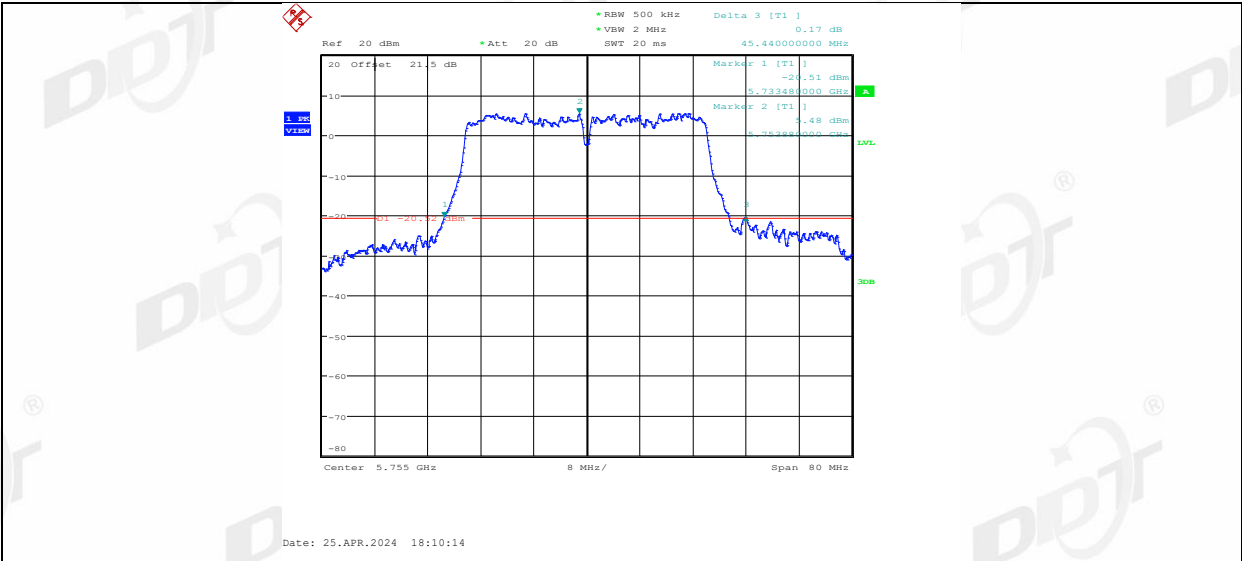
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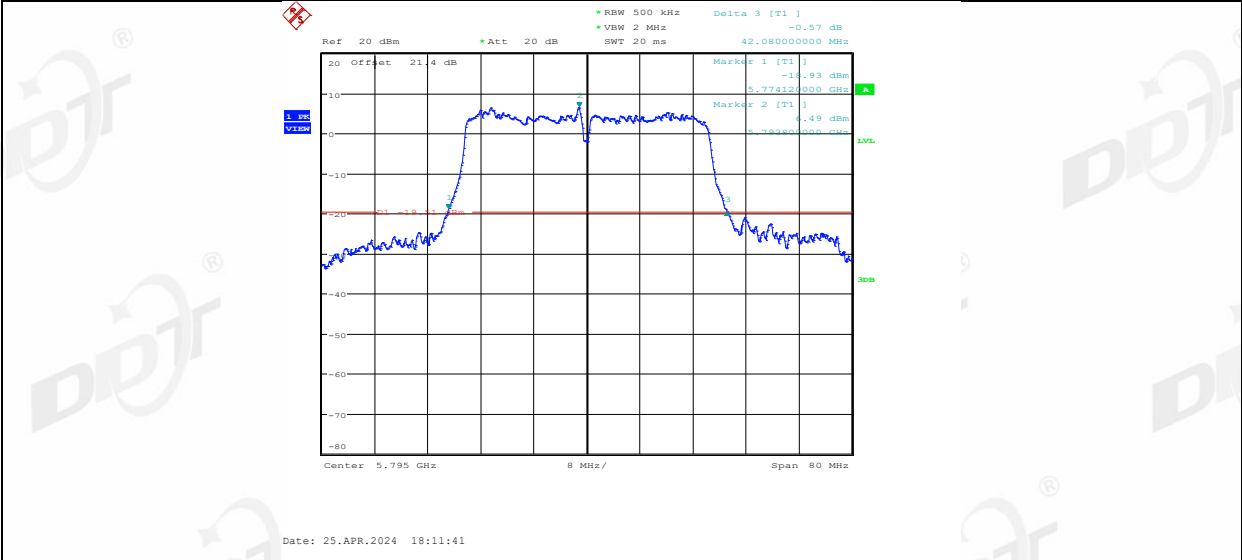
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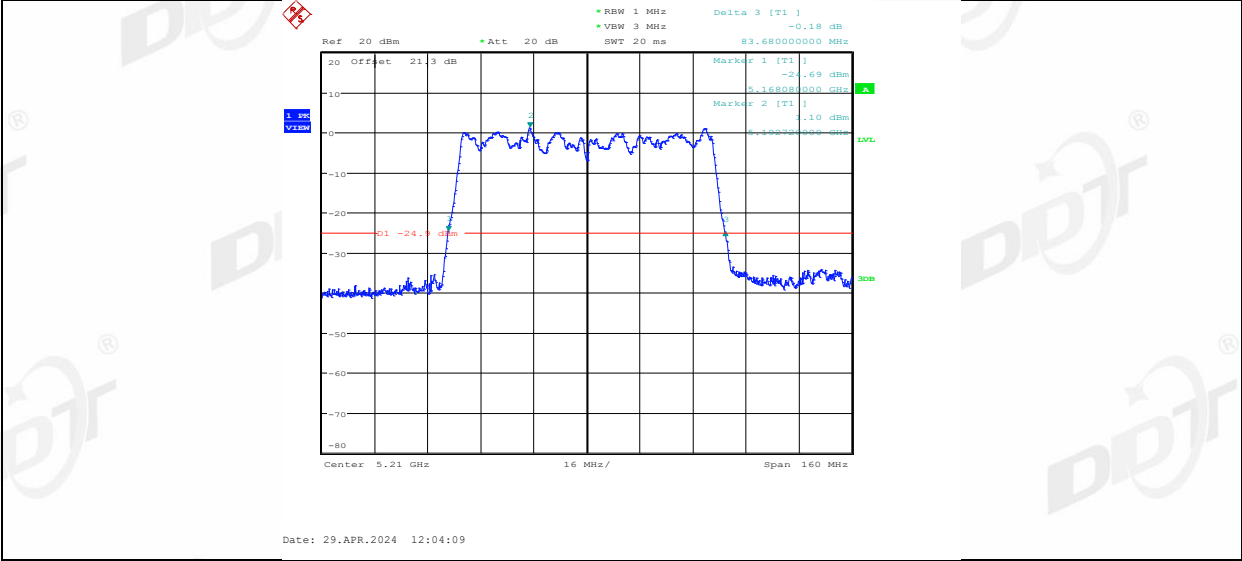
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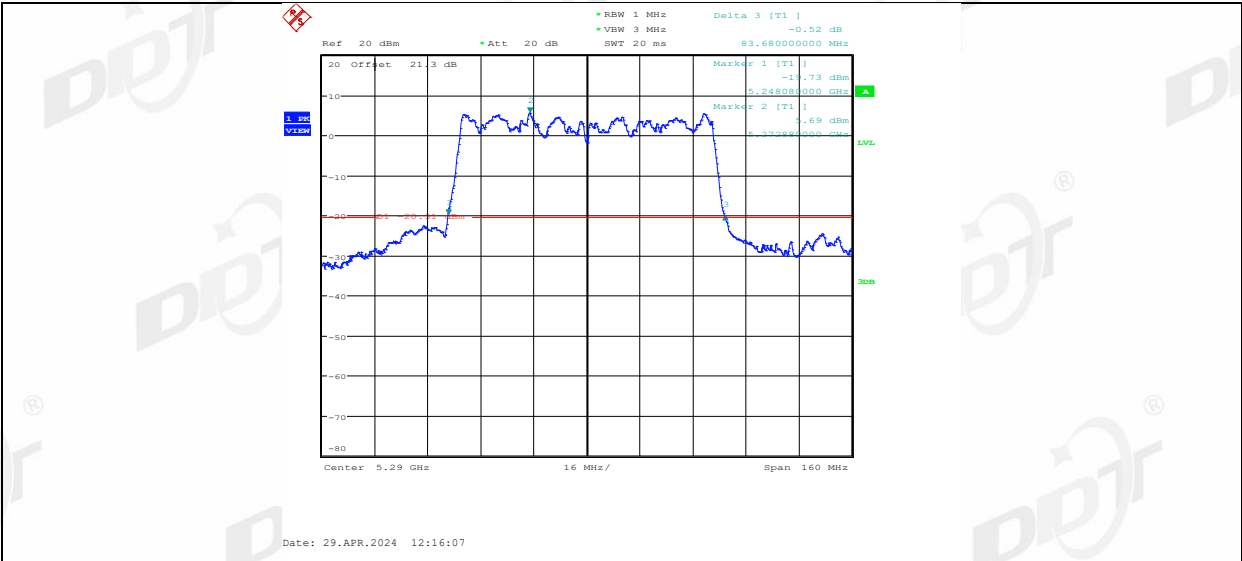
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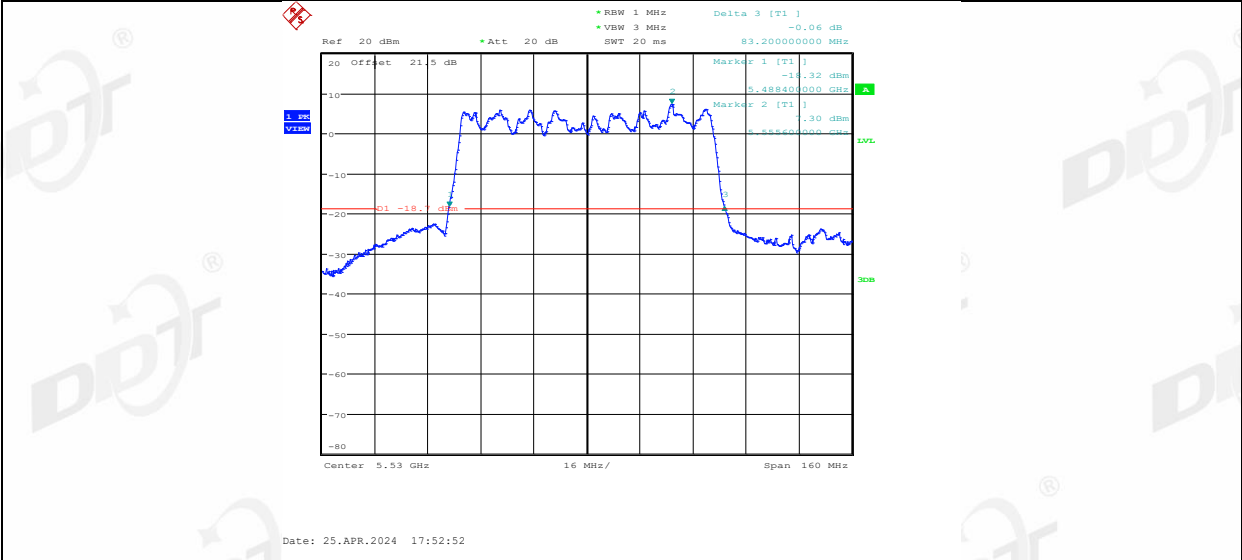
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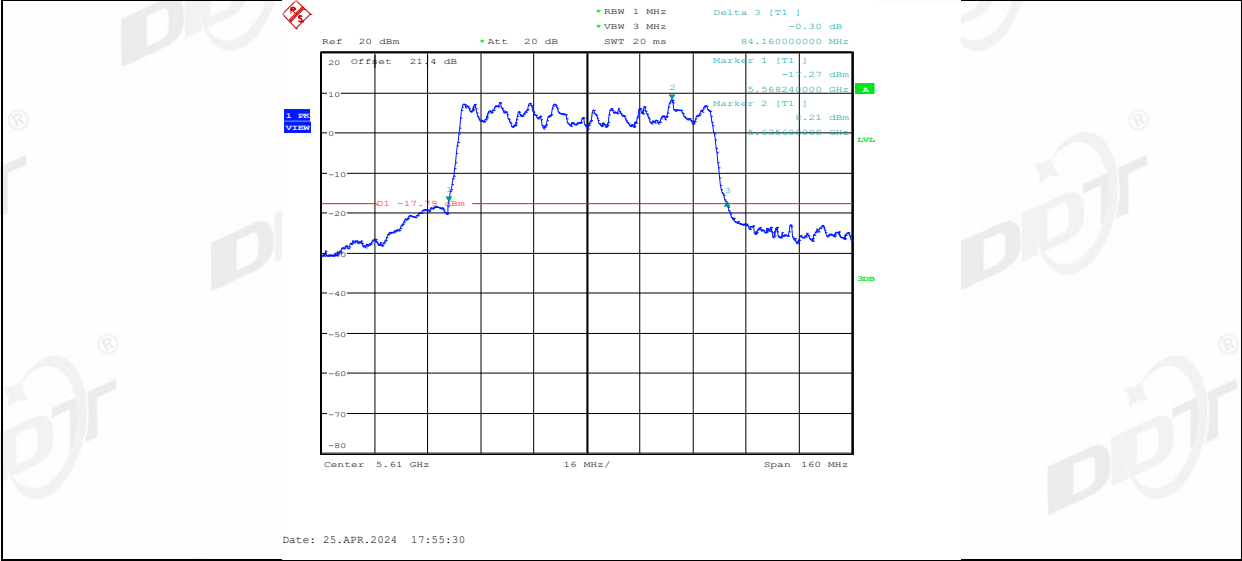
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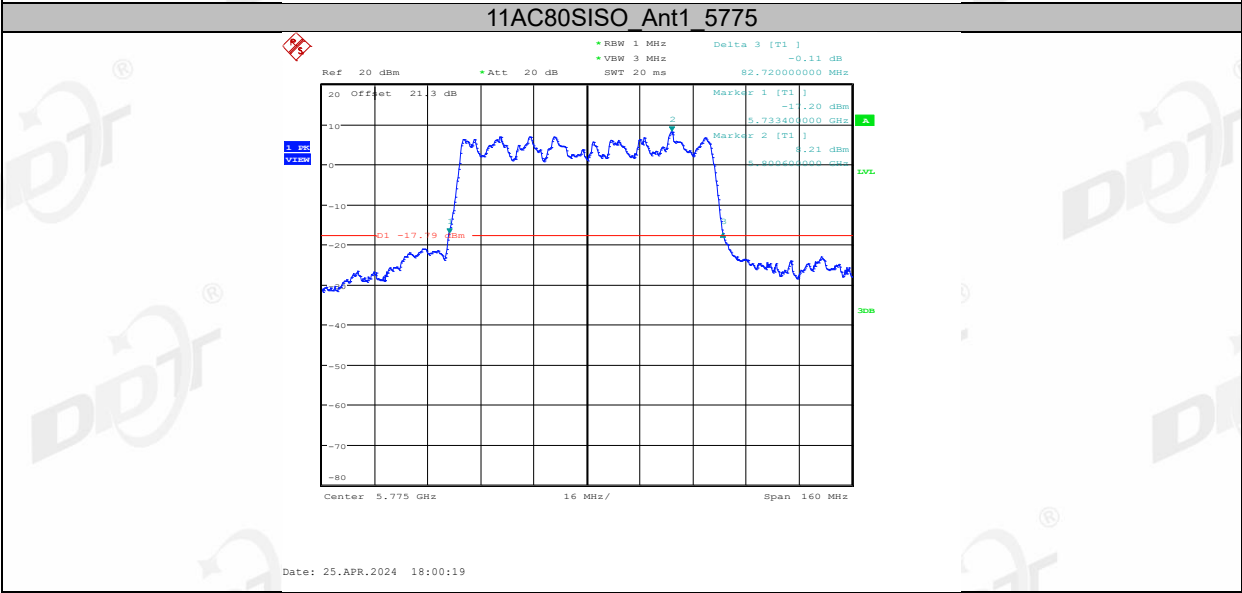
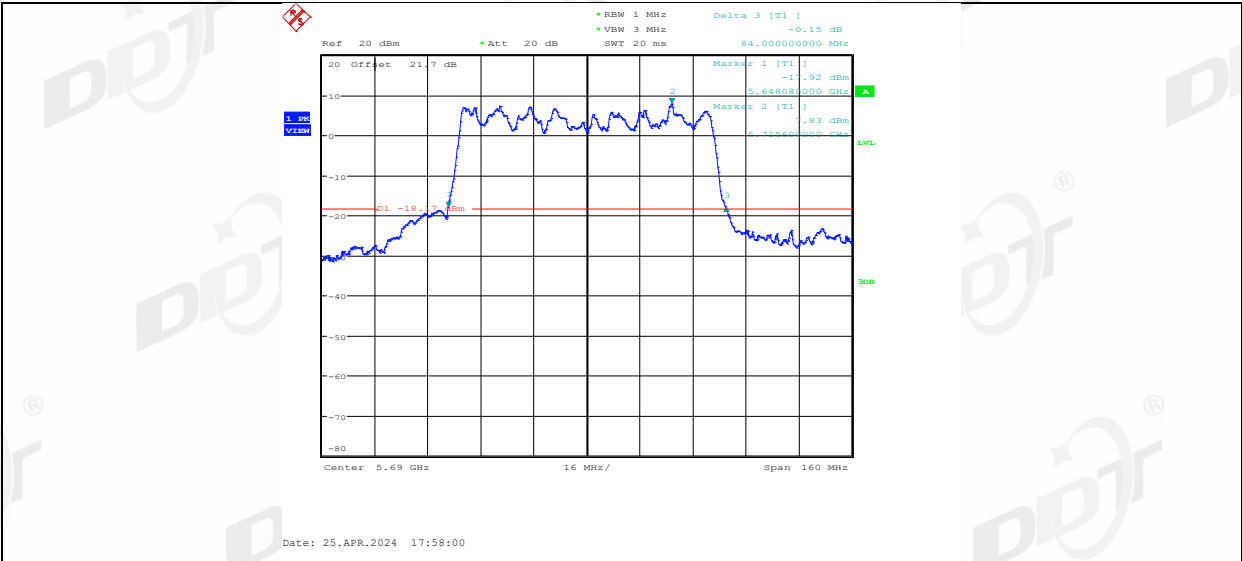
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11AC80SISO_Ant1_5610

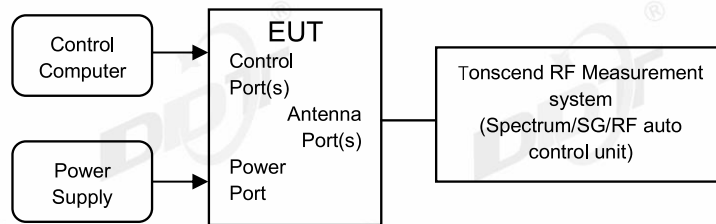


11AC80SISO_Ant1_5690



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

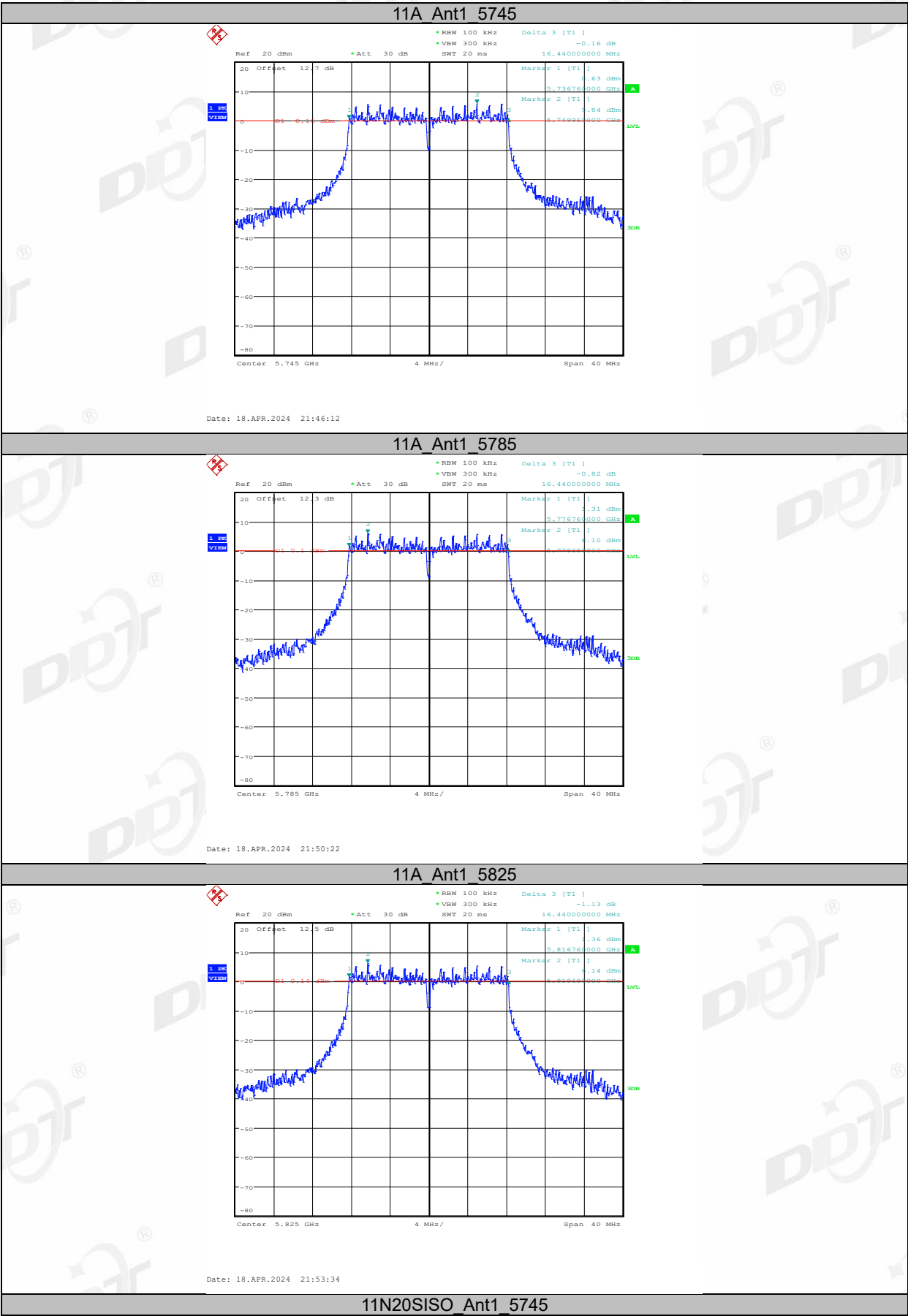
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

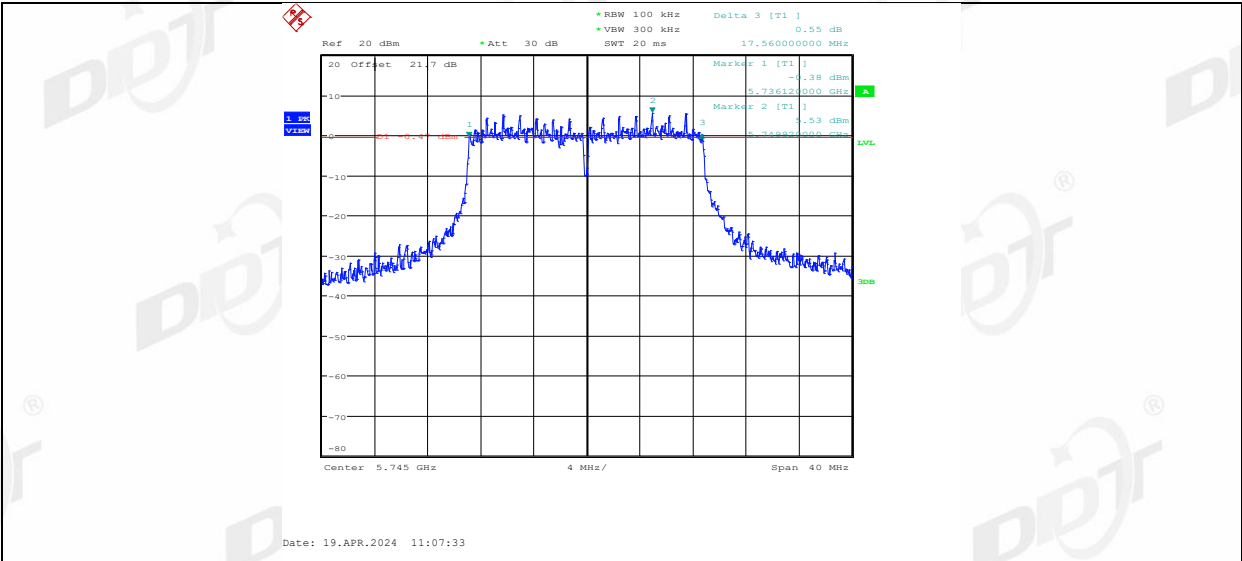
5.4. Test result B4

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.3℃,60.6%RH	Test Date:	2024.04.19-2024.04.28
Test Power Supply:	DC 5V from external adapter	Sample Number:	S24021902-001

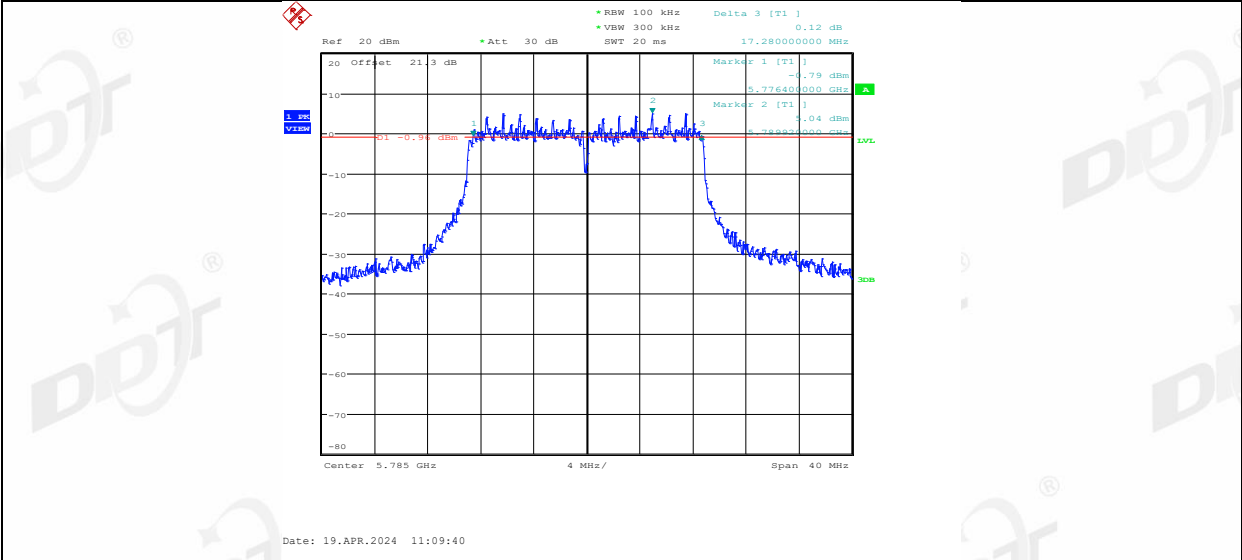
Test Mode	Antenna	Frequenc y[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.44	5736.76	5753.20	0.5	PASS
		5785	16.44	5776.76	5793.20	0.5	PASS
		5825	16.44	5816.76	5833.20	0.5	PASS
11N20 SISO	Ant1	5745	17.56	5736.12	5753.68	0.5	PASS
		5785	17.28	5776.40	5793.68	0.5	PASS
		5825	17.28	5816.16	5833.44	0.5	PASS
11N40 SISO	Ant1	5755	35.84	5737.32	5773.16	0.5	PASS
		5795	35.68	5777.08	5812.76	0.5	PASS
11AC20 SISO	Ant1	5745	17.68	5736.12	5753.80	0.5	PASS
		5785	17.64	5776.12	5793.76	0.5	PASS
		5825	17.56	5816.20	5833.76	0.5	PASS
11AC40 SISO	Ant1	5755	35.76	5737.08	5772.84	0.5	PASS
		5795	36.40	5776.76	5813.16	0.5	PASS
11AC80 SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS

5.5. Test graphs B4

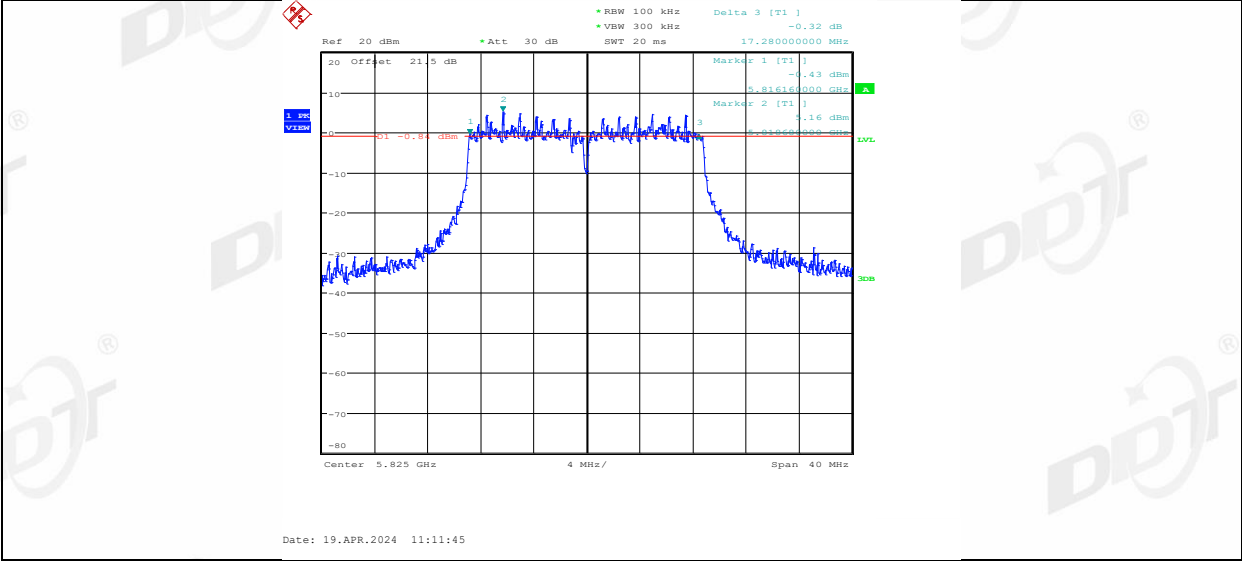




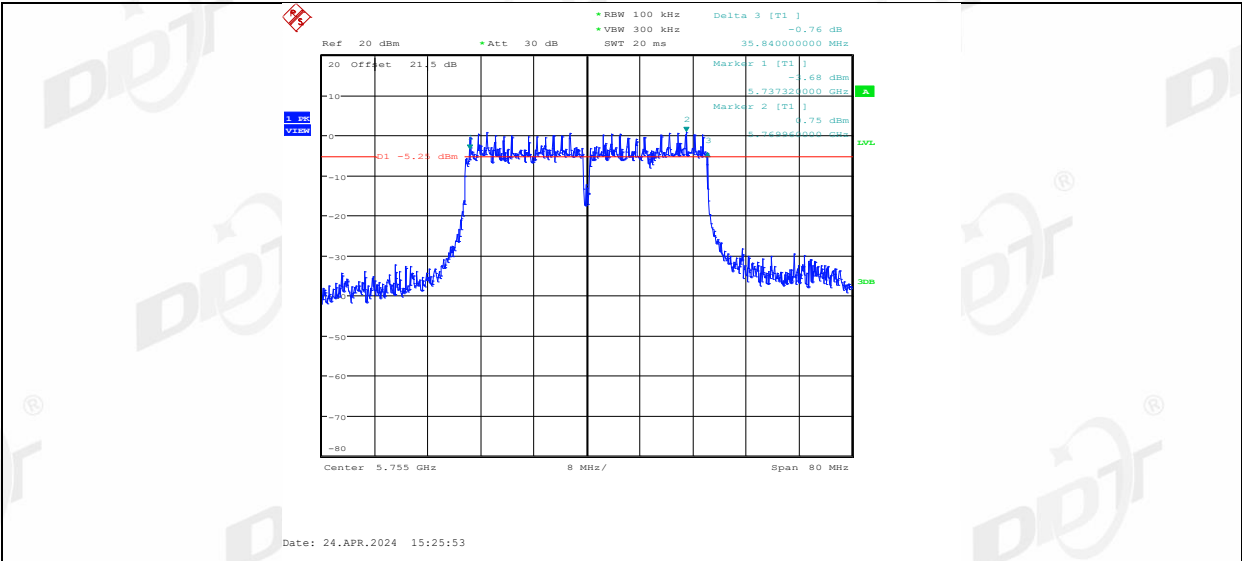
11N20SISO_Ant1_5785



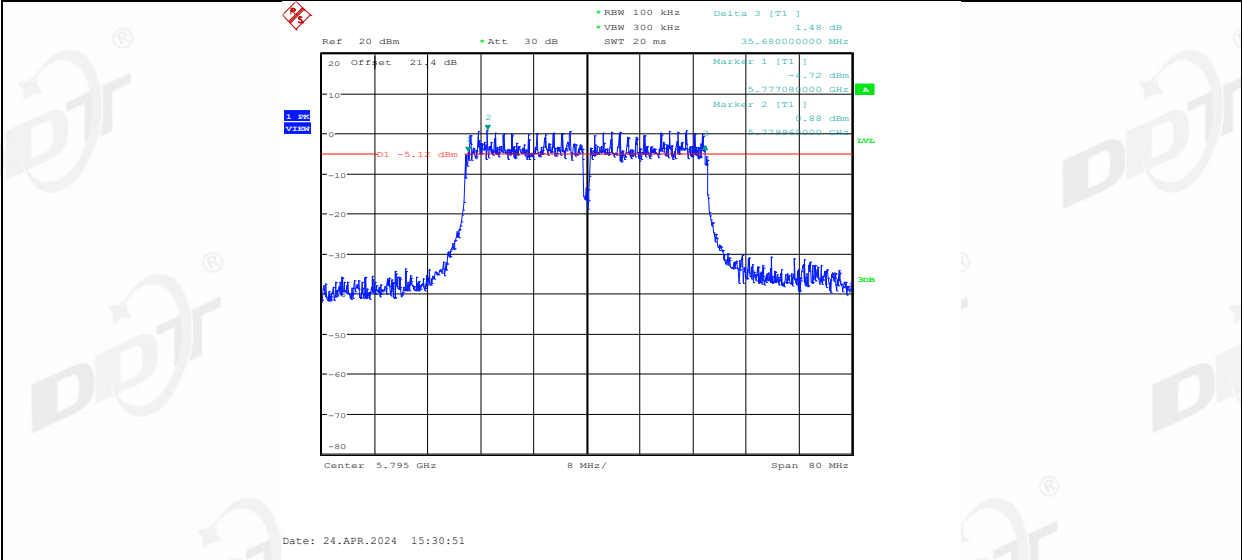
11N20SISO_Ant1_5825



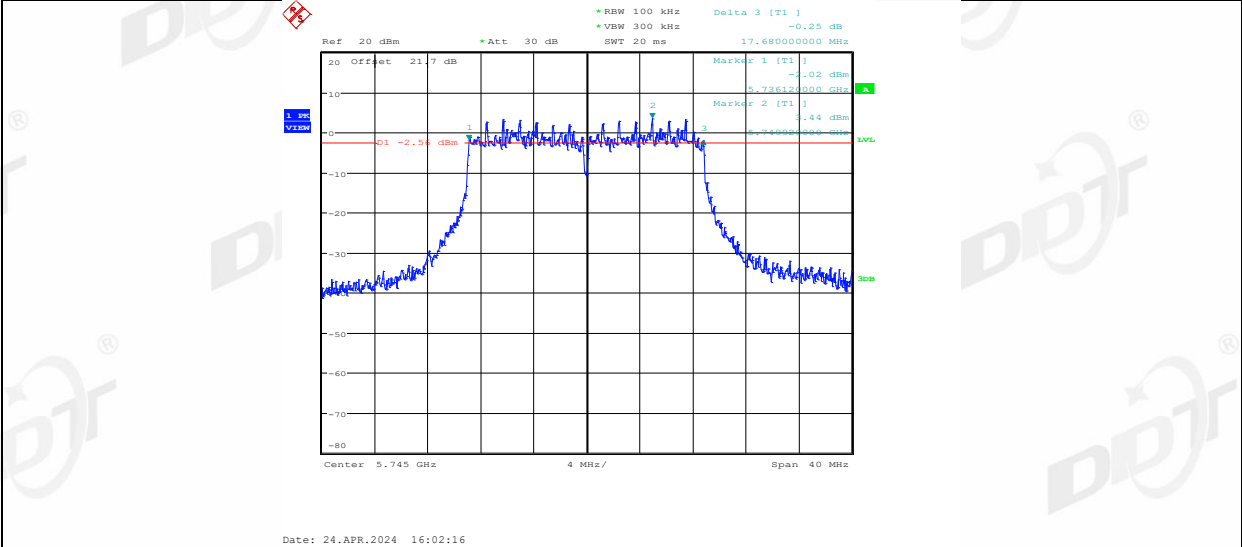
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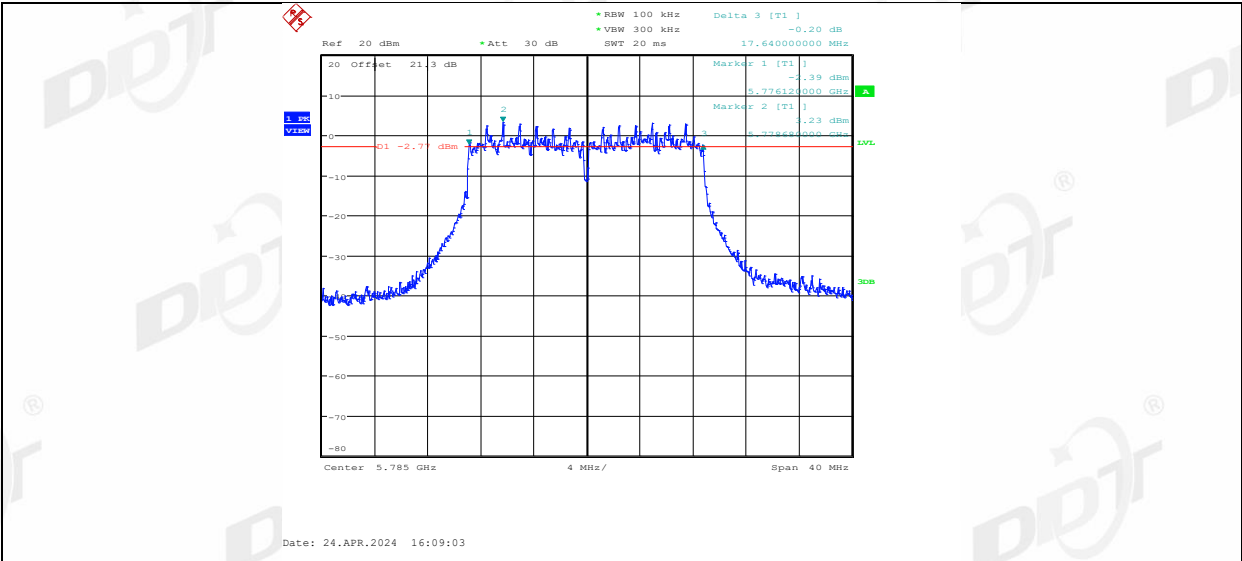
11N40SISO Ant1 5795



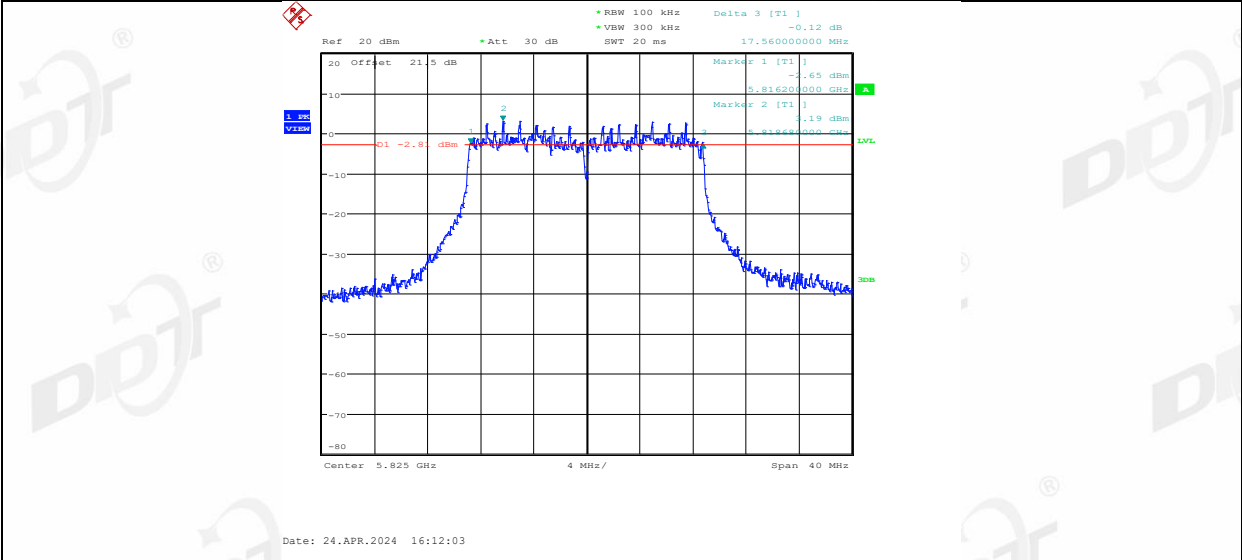
11AC20SISO Ant1 5745



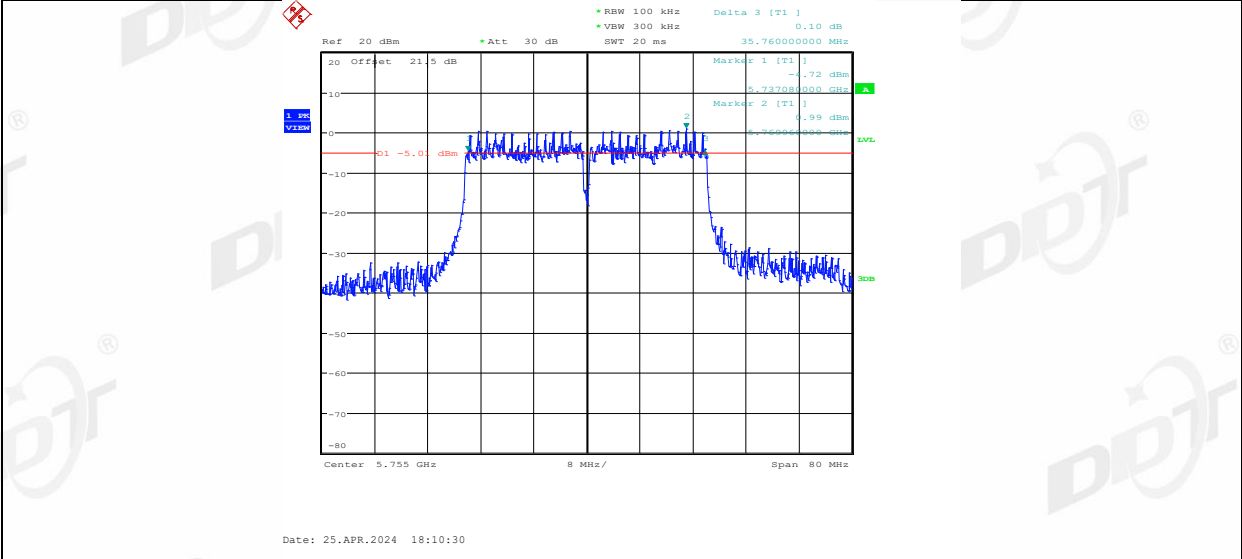
11AC20SISO Ant1 5785



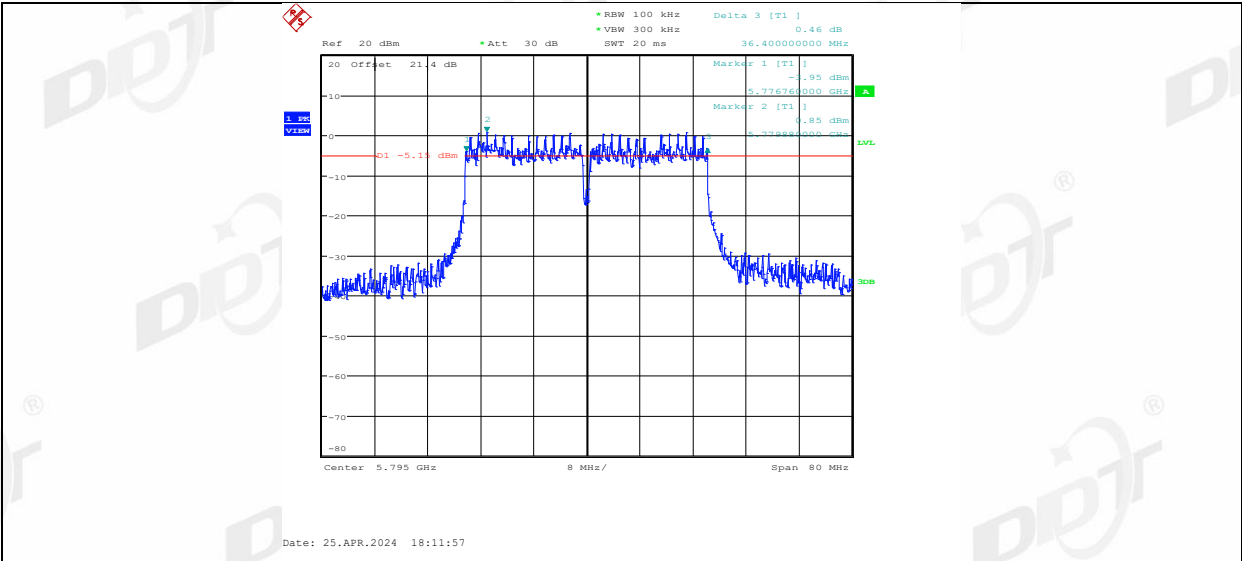
11AC20SISO_Ant1_5825



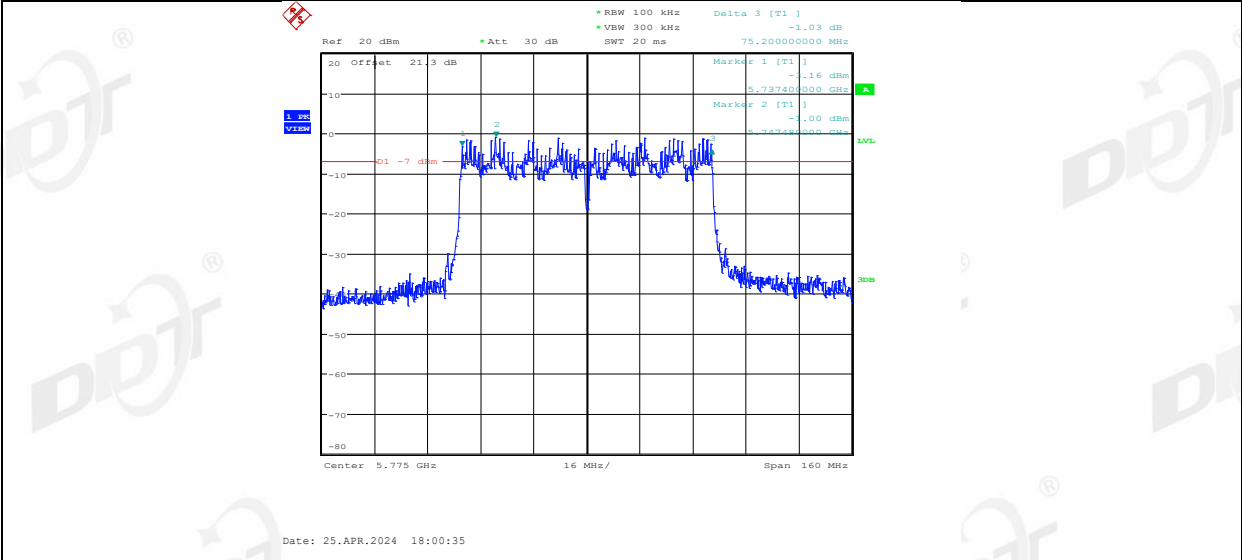
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

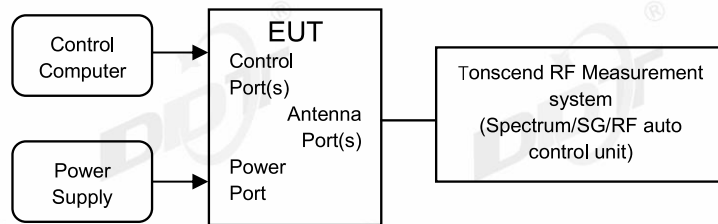


11AC80SISO_Ant1_5775



6. 99% Bandwidth

6.1. Block diagram of test setup



6.2. Limits

Just for Report.

6.3. Test procedure

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

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Trace	Max hold

Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

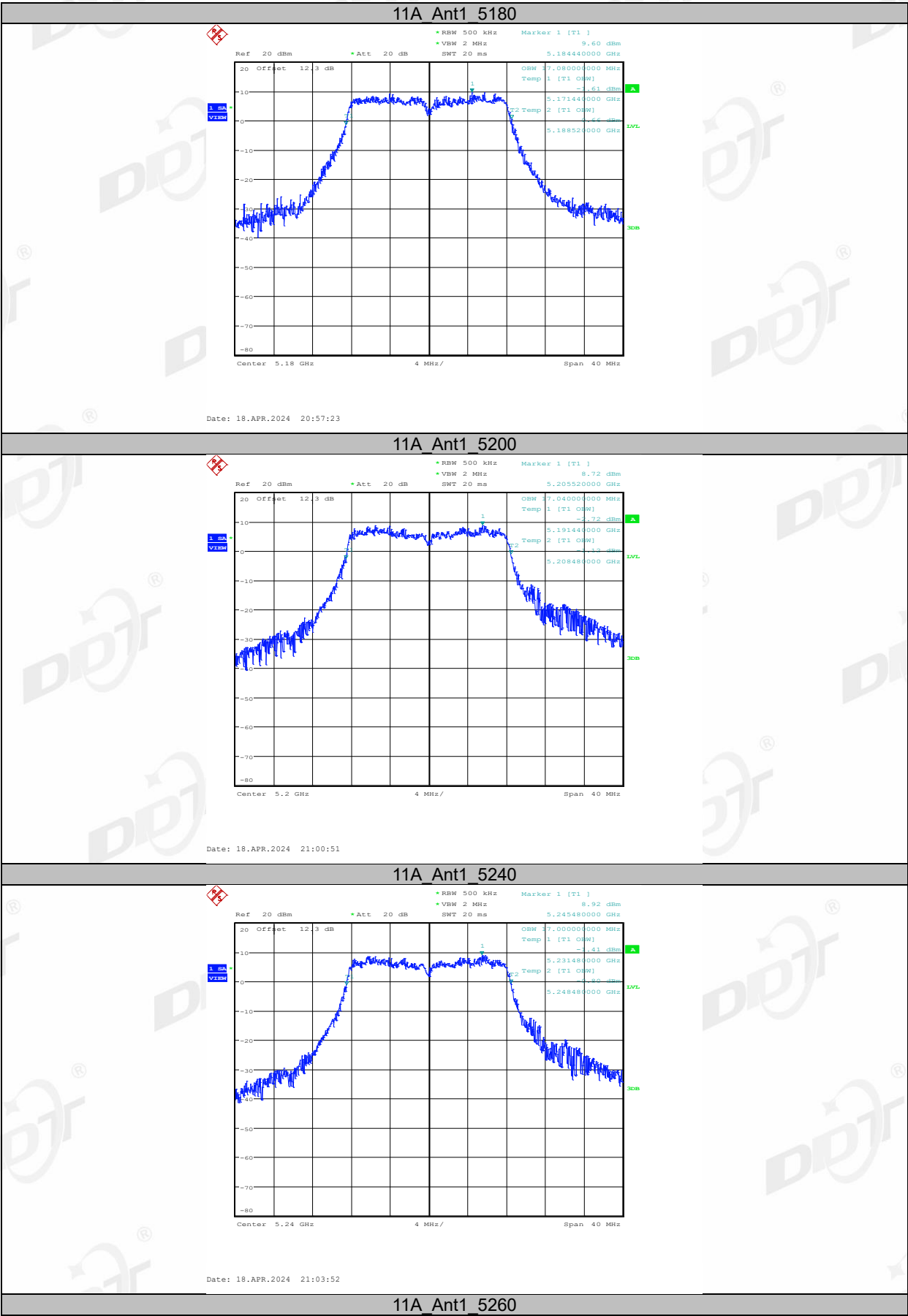
6.4. Test result

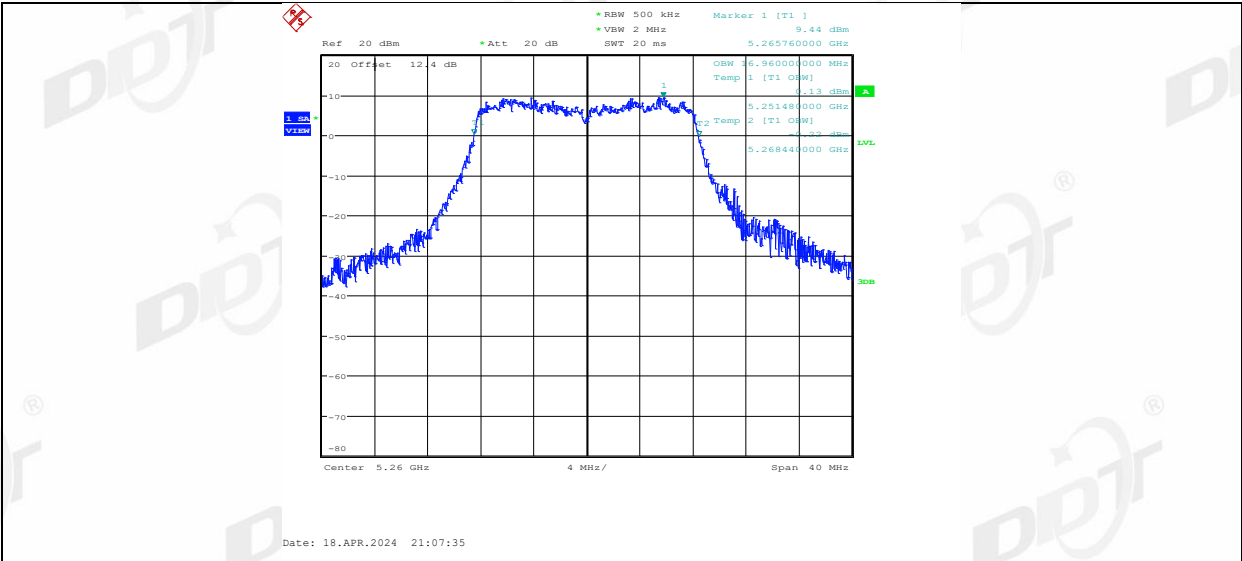
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.3℃,60.6%RH	Test Date:	2024.04.19-2024.04.28
Test Power Supply:	DC 5V from external adapter	Sample Number:	S24021902-001

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	17.08	5171.4400	5188.5200	---	---
		5200	17.04	5191.4400	5208.4800	---	---
		5240	17	5231.4800	5248.4800	---	---
		5260	16.96	5251.4800	5268.4400	---	---
		5280	17	5271.4800	5288.4800	---	---
		5320	17.16	5311.4000	5328.5600	---	---
		5500	17.32	5491.2800	5508.6000	---	---
		5580	17.2	5571.3600	5588.5600	---	---
		5700	17.28	5691.2400	5708.5200	---	---
		5720	17	5711.4400	5728.4400	---	---
		5720_UN II-2C	13.56	5711.4400	5725	---	---
		5720_UN II-3	3.44	5725	5728.4400	---	---
		5745	17.28	5736.3200	5753.6000	---	---
		5785	17.2	5776.3200	5793.5200	---	---
		5825	17.2	5816.3200	5833.5200	---	---
11N20SISO	Ant1	5180	17.96	5171.0000	5188.9600	---	---
		5200	18	5190.9600	5208.9600	---	---
		5240	18	5230.9600	5248.9600	---	---
		5260	18.16	5250.8400	5269.0000	---	---
		5280	18.2	5270.8000	5289.0000	---	---
		5320	18.12	5310.8400	5328.9600	---	---
		5500	18	5490.9600	5508.9600	---	---
		5580	17.96	5571.0000	5588.9600	---	---
		5700	18.12	5690.9200	5709.0400	---	---
		5720	18.08	5710.9200	5729.0000	---	---
		5720_UN II-2C	14.08	5710.9200	5725	---	---
		5720_UN II-3	4	5725	5729.0000	---	---
		5745	18.12	5735.9600	5754.0800	---	---
		5785	18.08	5775.8800	5793.9600	---	---
		5825	18.2	5815.9200	5834.1200	---	---
11N40SISO	Ant1	5190	36.64	5171.6000	5208.2400	---	---
		5230	36.72	5211.5200	5248.2400	---	---
		5270	36.72	5251.6000	5288.3200	---	---
		5310	36.8	5291.5200	5328.3200	---	---
		5510	37.12	5491.3600	5528.4800	---	---
		5550	36.64	5531.6000	5568.2400	---	---
		5670	36.72	5651.5200	5688.2400	---	---
		5710	36.72	5691.6000	5728.3200	---	---
		5710_UN II-2C	33.4	5691.6000	5725	---	---
		5710_UN II-3	3.32	5725	5728.3200	---	---
		5755	36.8	5736.5200	5773.3200	---	---
		5795	36.88	5776.5200	5813.4000	---	---
11AC20SISO	Ant1	5180	18.08	5170.9200	5189.0000	---	---
		5200	18.08	5190.8800	5208.9600	---	---
		5240	18.28	5230.8000	5249.0800	---	---
		5260	18.04	5250.8800	5268.9200	---	---
		5280	18.2	5270.8800	5289.0800	---	---
		5320	18.08	5310.8800	5328.9600	---	---
		5500	18.12	5490.8400	5508.9600	---	---
		5580	18.16	5570.8400	5589.0000	---	---

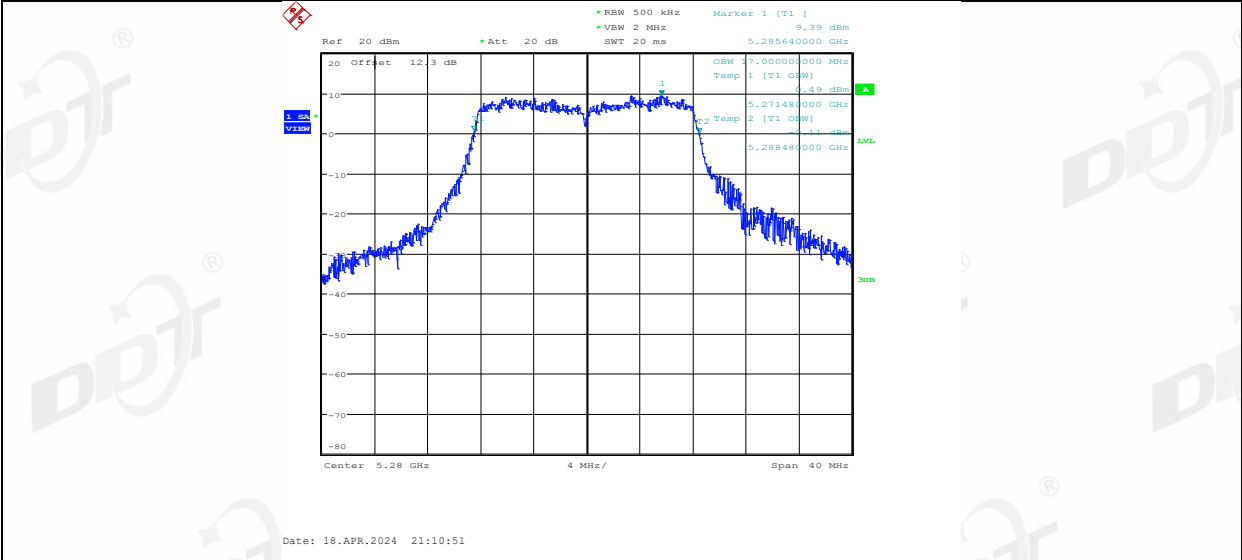
		5700	18.04	5690.9200	5708.9600	---	---
		5720	18.08	5710.8800	5728.9600	---	---
		5720_UN II-2C	14.12	5710.8800	5725	---	---
		5720_UN II-3	3.96	5725	5728.9600	---	---
		5745	18.16	5735.8800	5754.0400	---	---
		5785	18.16	5775.8800	5794.0400	---	---
		5825	18.12	5815.8400	5833.9600	---	---
11AC40SI SO	Ant1	5190	36.72	5171.5200	5208.2400	---	---
		5230	36.64	5211.6800	5248.3200	---	---
		5270	36.8	5251.5200	5288.3200	---	---
		5310	36.64	5291.6000	5328.2400	---	---
		5510	36.8	5491.6000	5528.4000	---	---
		5550	36.64	5531.6800	5568.3200	---	---
		5670	36.88	5651.6000	5688.4800	---	---
		5710	36.88	5691.5200	5728.4000	---	---
		5710_UN II-2C	33.48	5691.5200	5725	---	---
		5710_UN II-3	3.4	5725	5728.4000	---	---
		5755	36.88	5736.5200	5773.4000	---	---
		5795	36.88	5776.6000	5813.4800	---	---
		5210	76.96	5171.4400	5248.4000	---	---
11AC80SI SO	Ant1	5290	76.8	5251.4400	5328.2400	---	---
		5530	77.12	5491.4400	5568.5600	---	---
		5610	77.28	5571.1200	5648.4000	---	---
		5690	76.96	5651.2800	5728.2400	---	---
		5690_UN II-2C	73.72	5651.2800	5725	---	---
		5690_UN II-3	3.24	5725	5728.2400	---	---
		5775	76.48	5736.6000	5813.0800	---	---

6.5. Test graphs

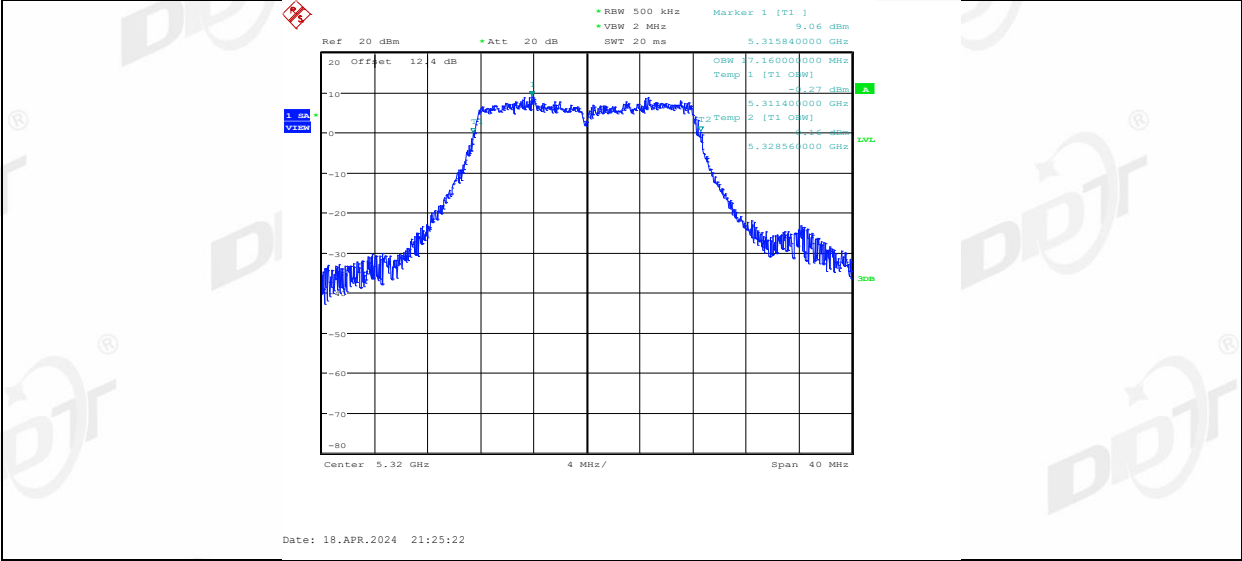




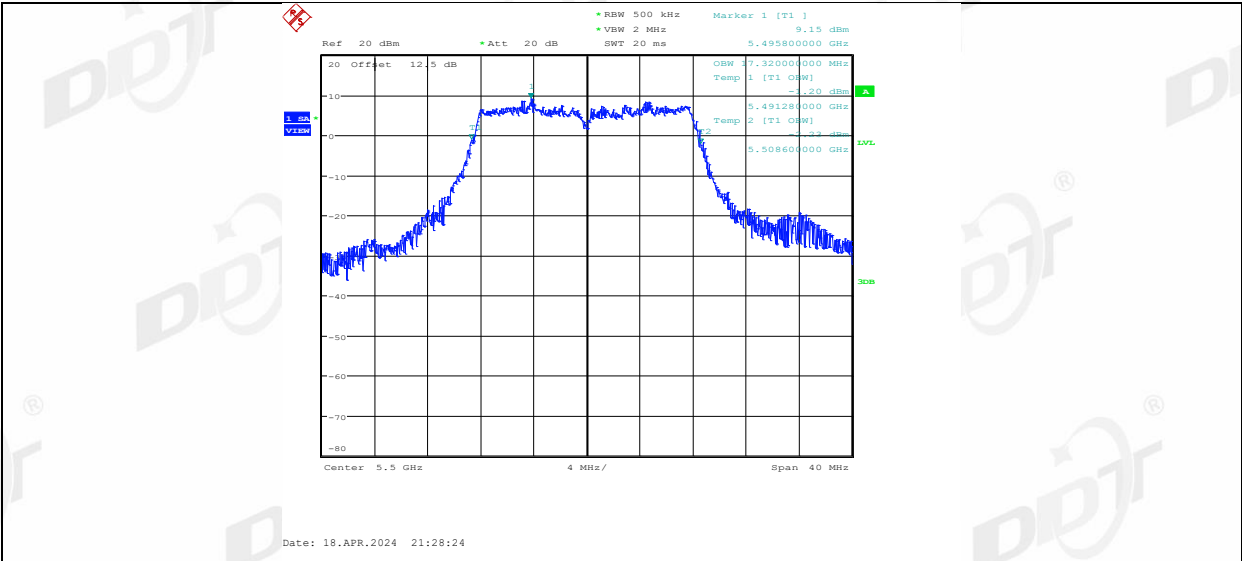
11A_Ant1_5280



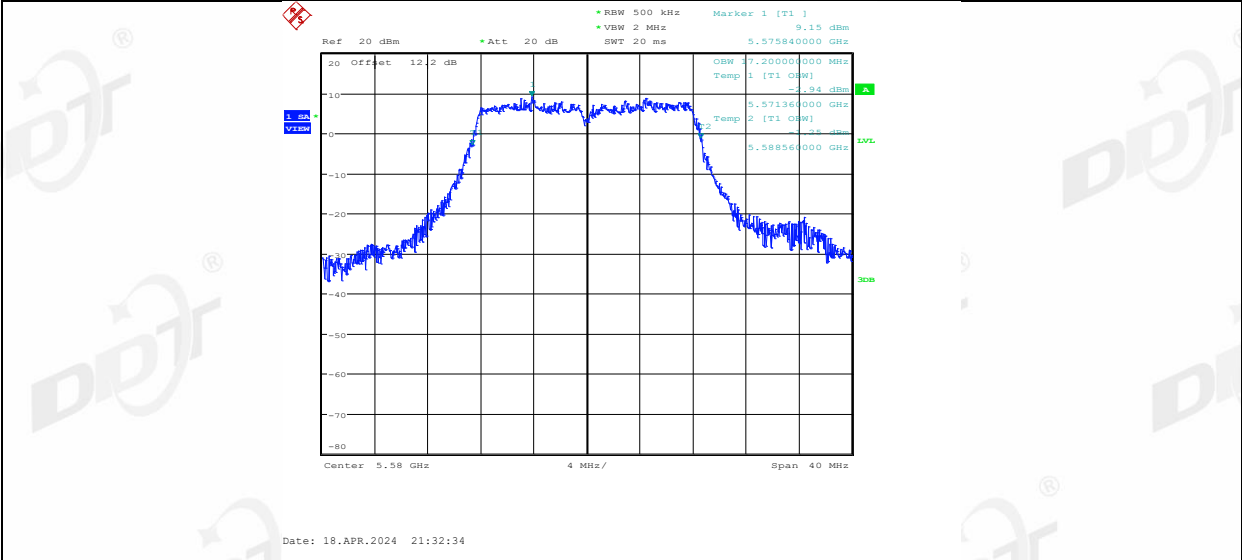
11A_Ant1_5320



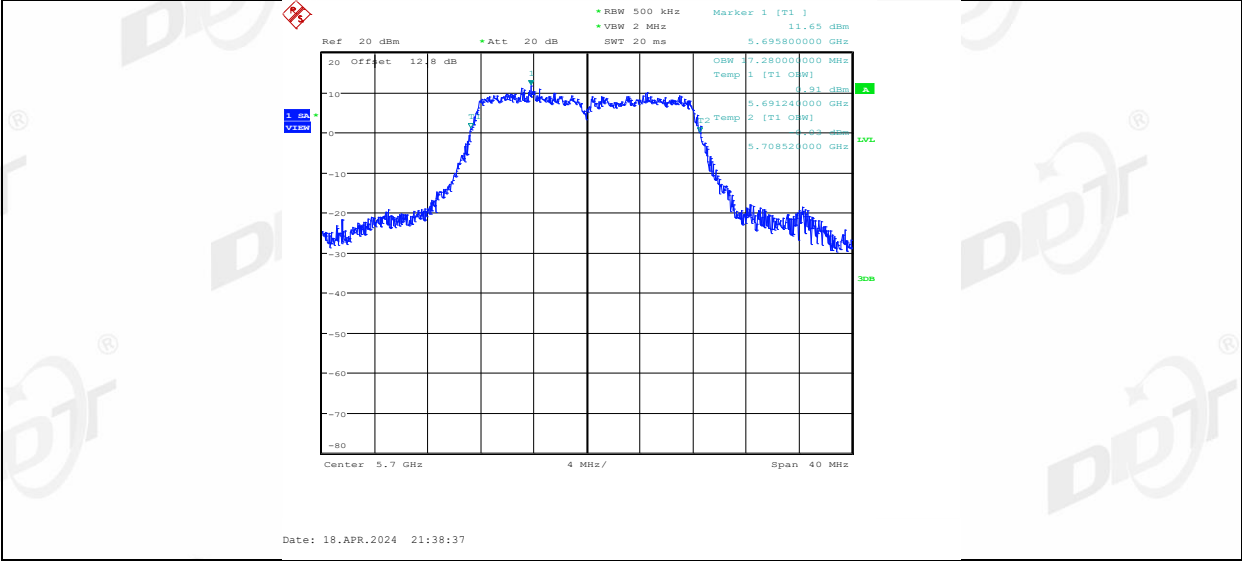
11A_Ant1_5500



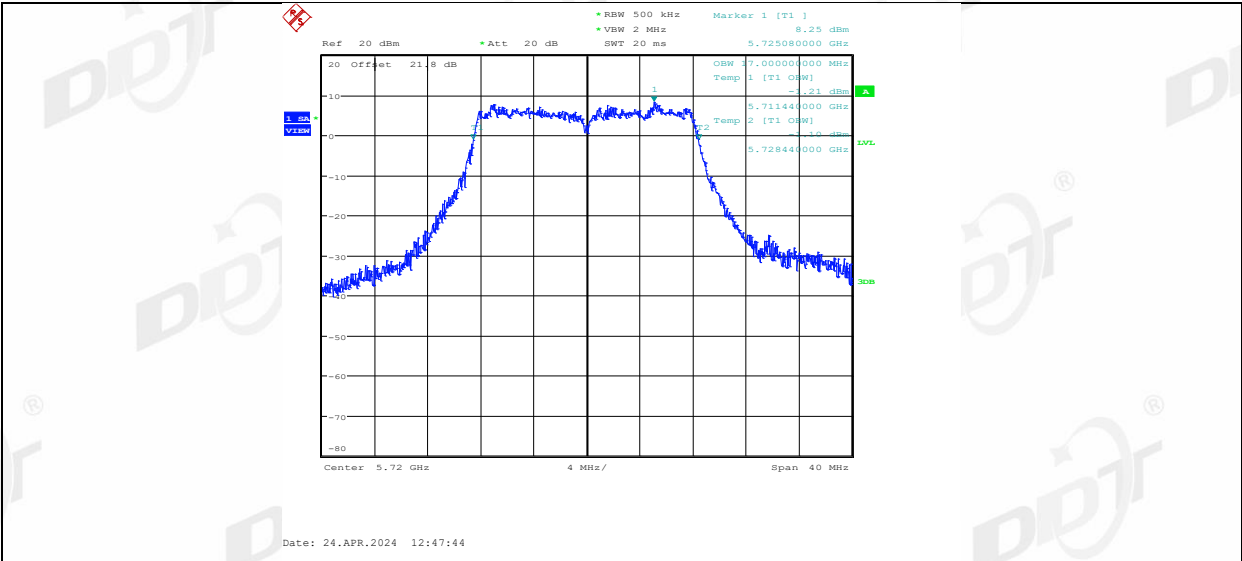
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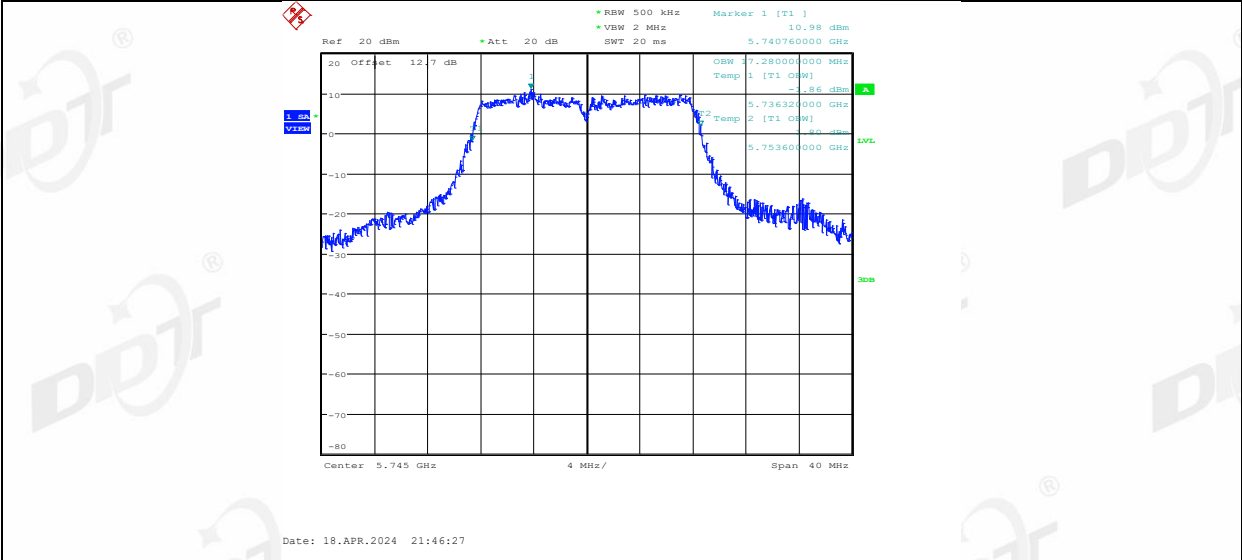
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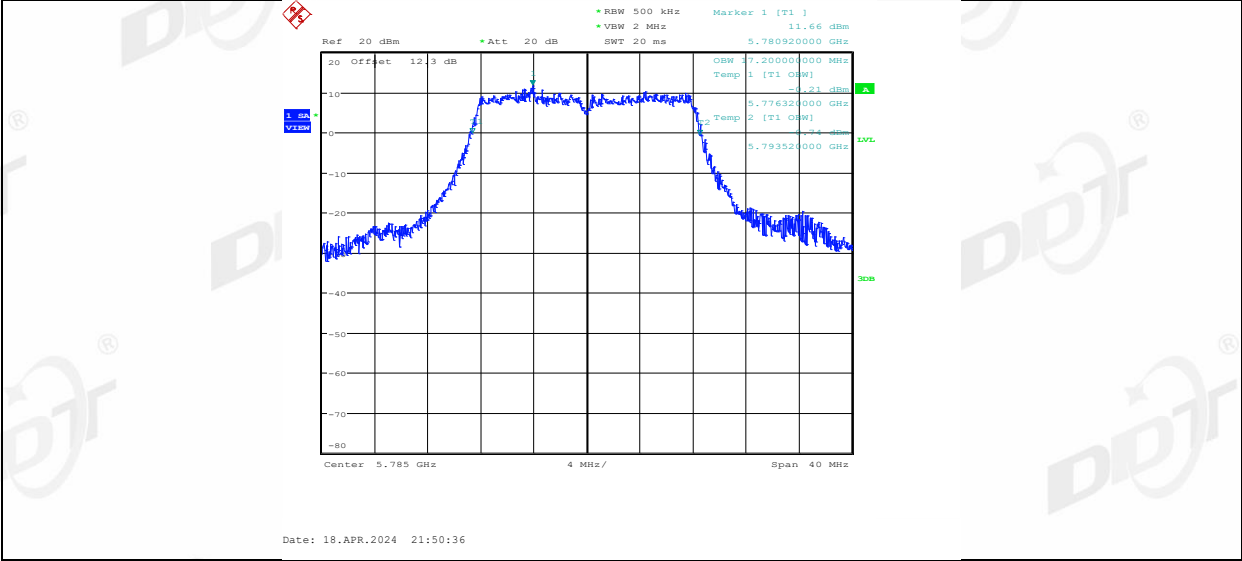
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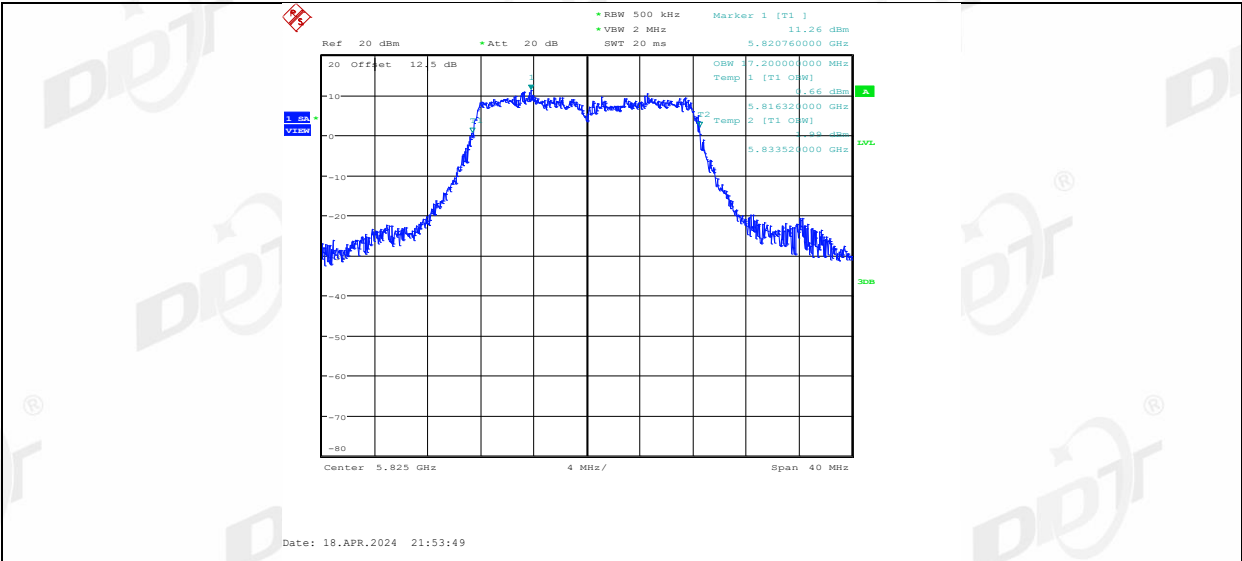
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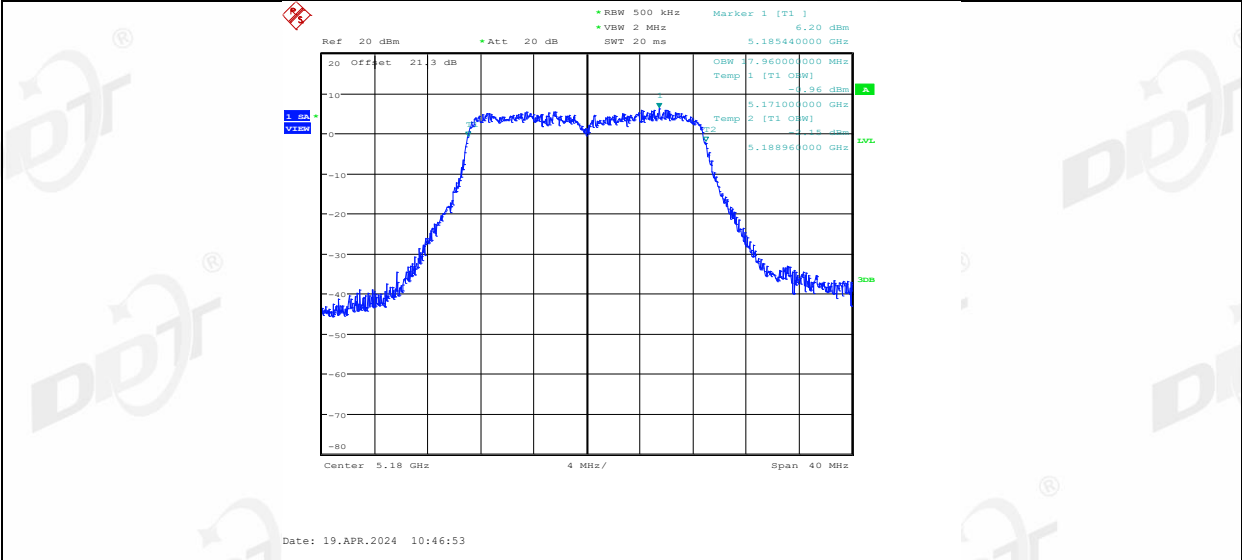
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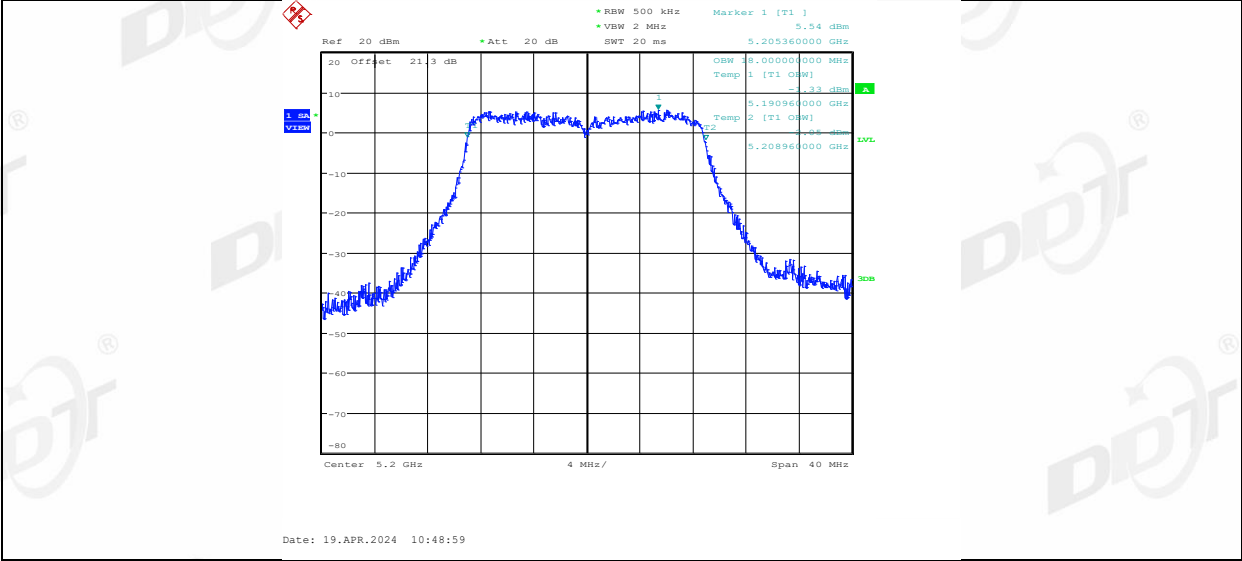
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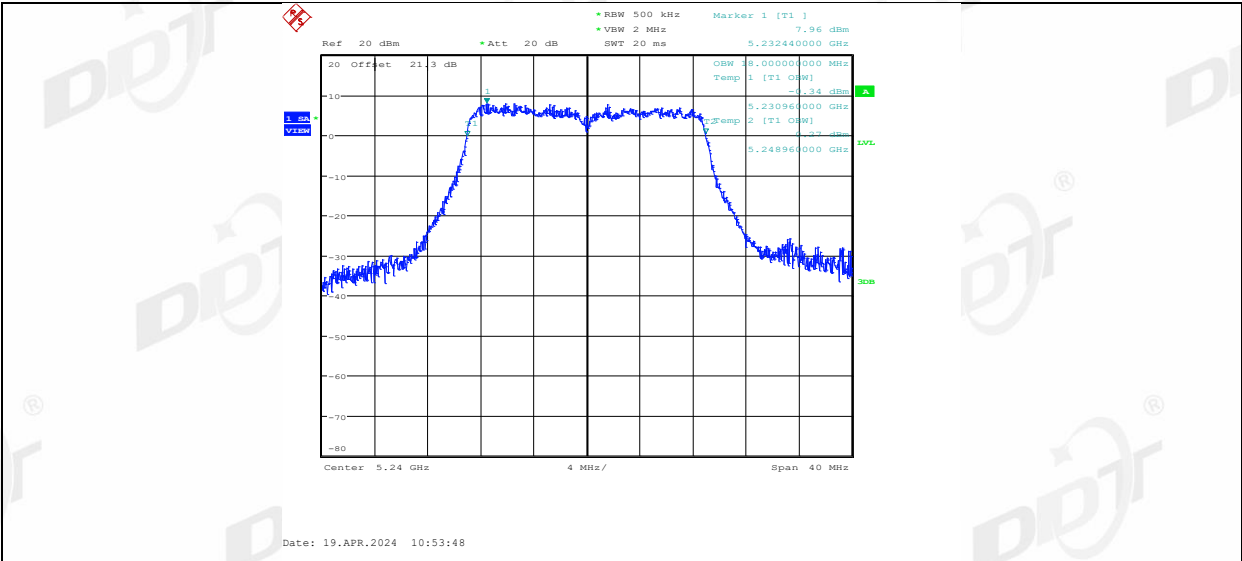
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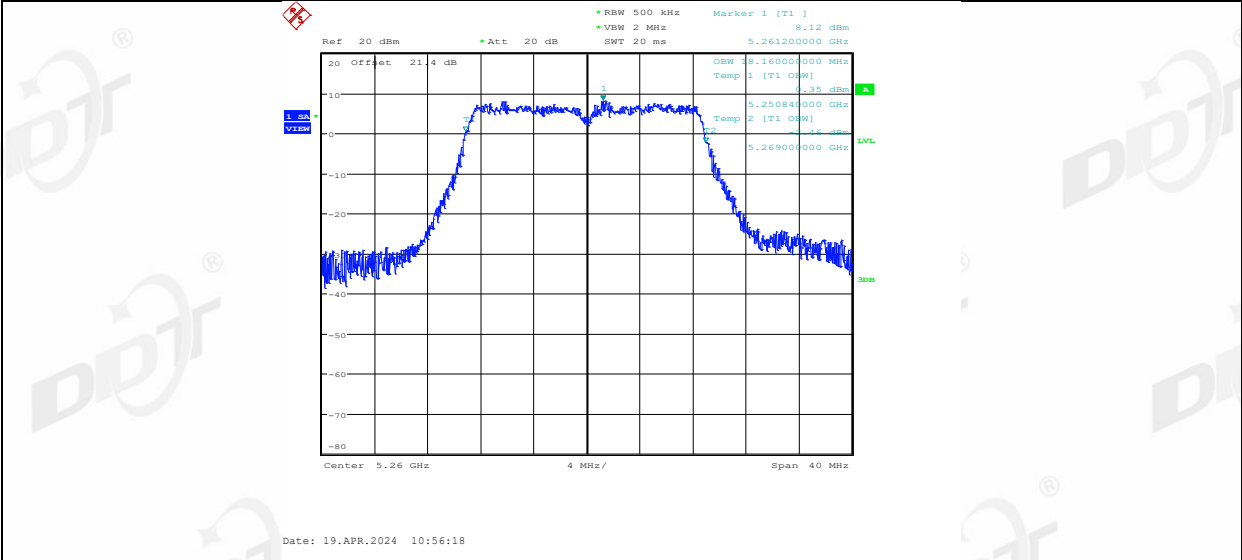
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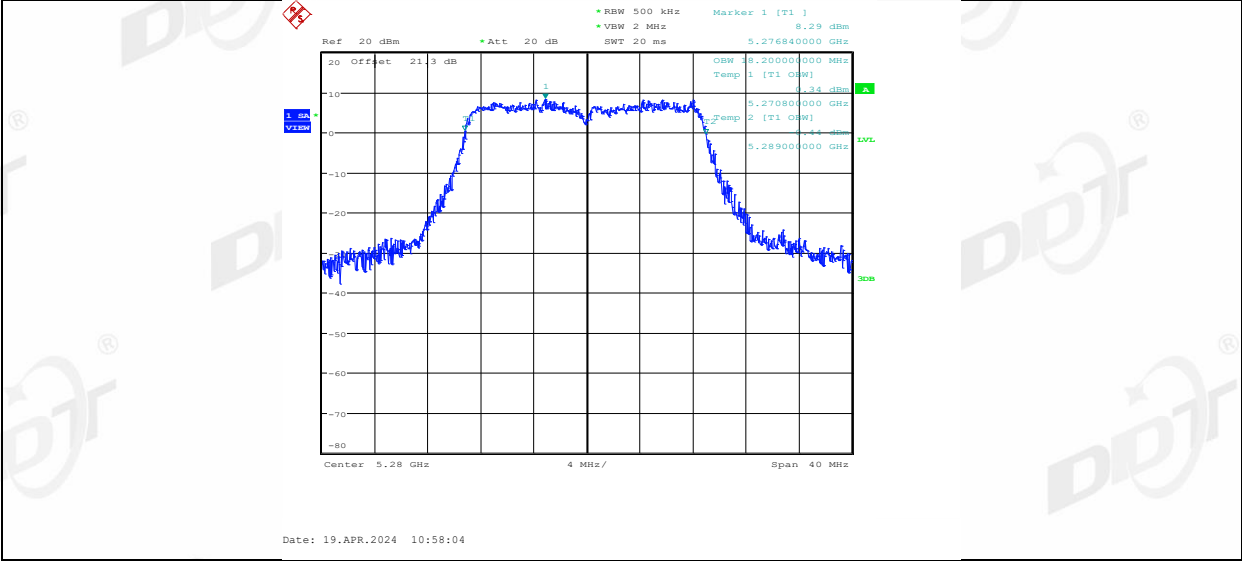
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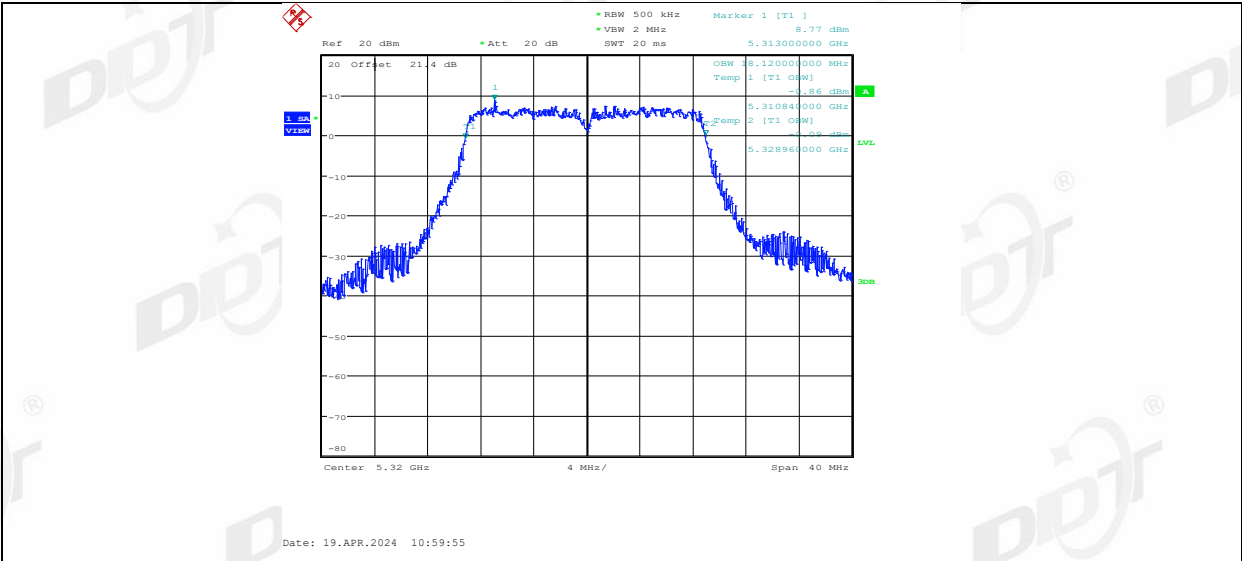
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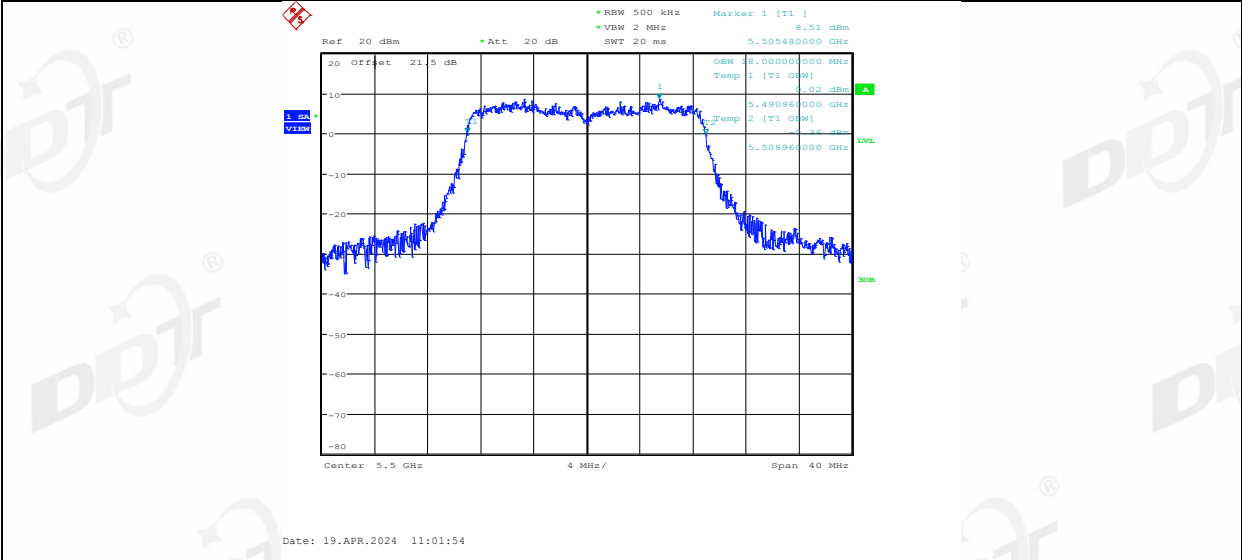
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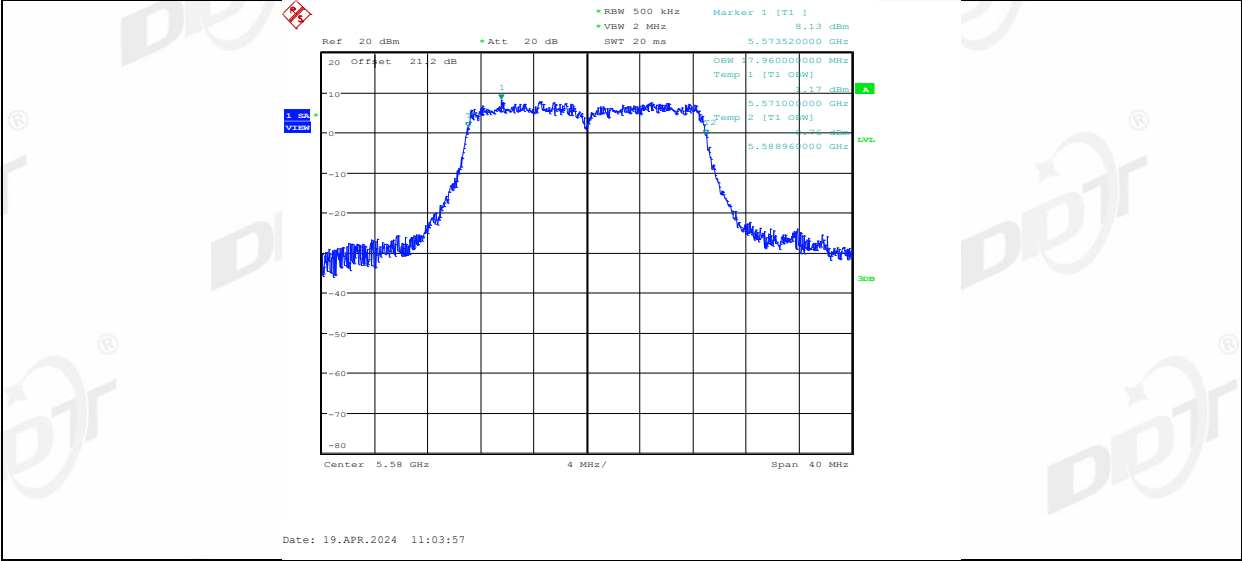
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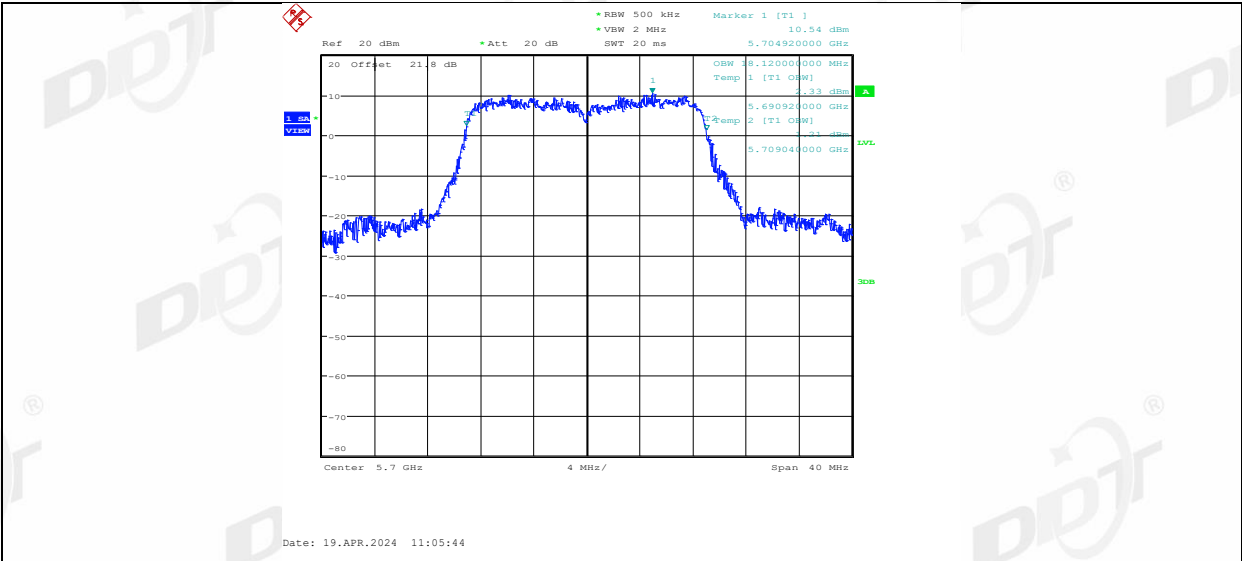
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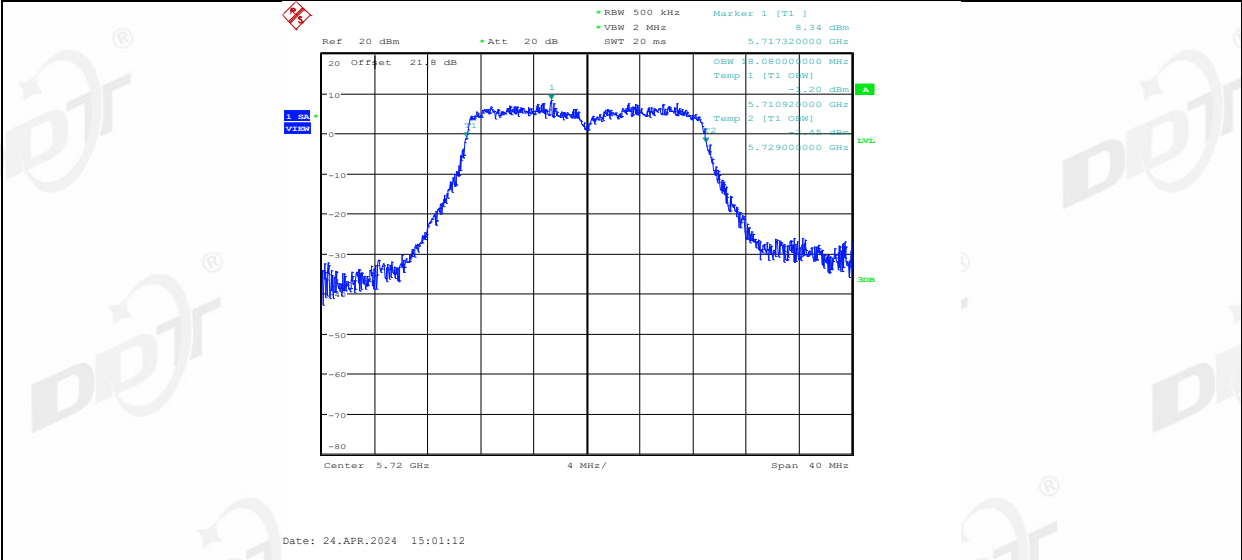
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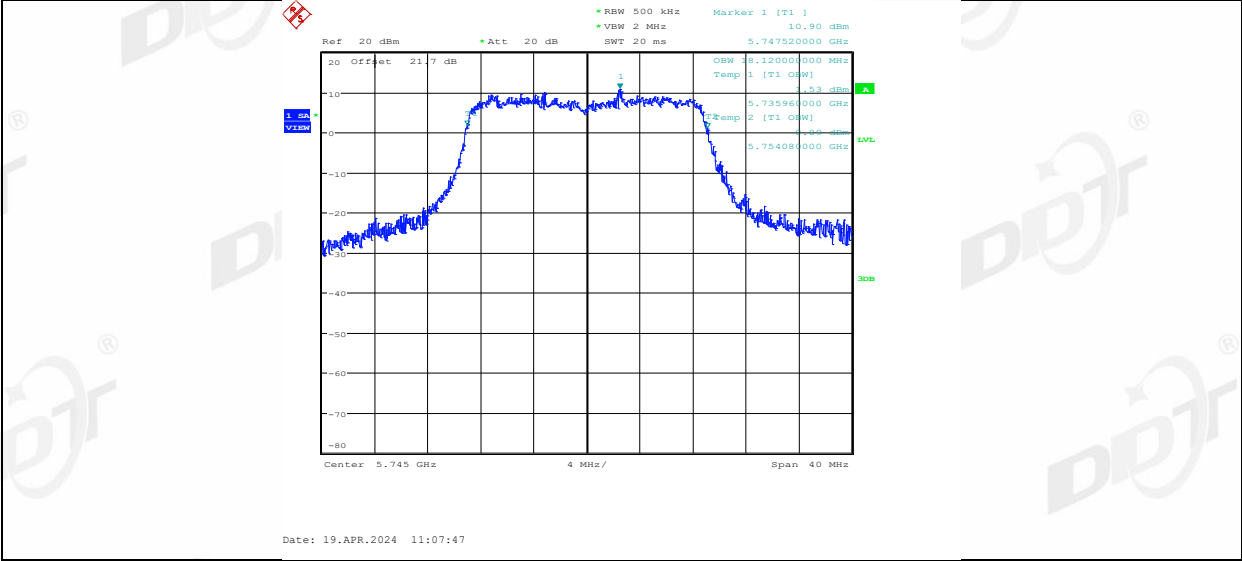
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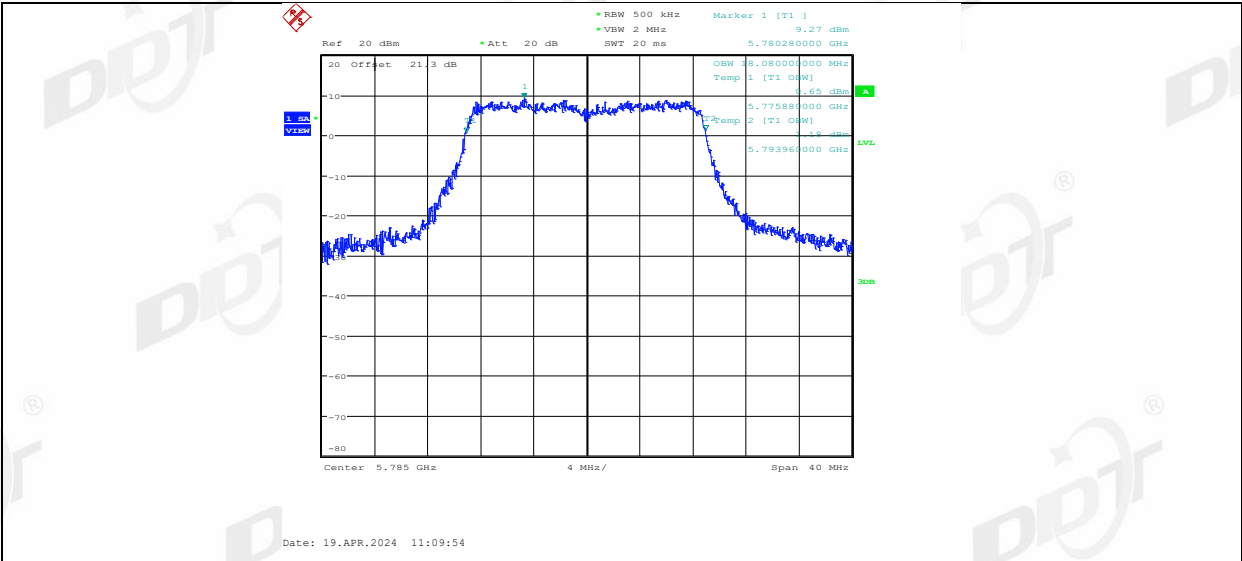
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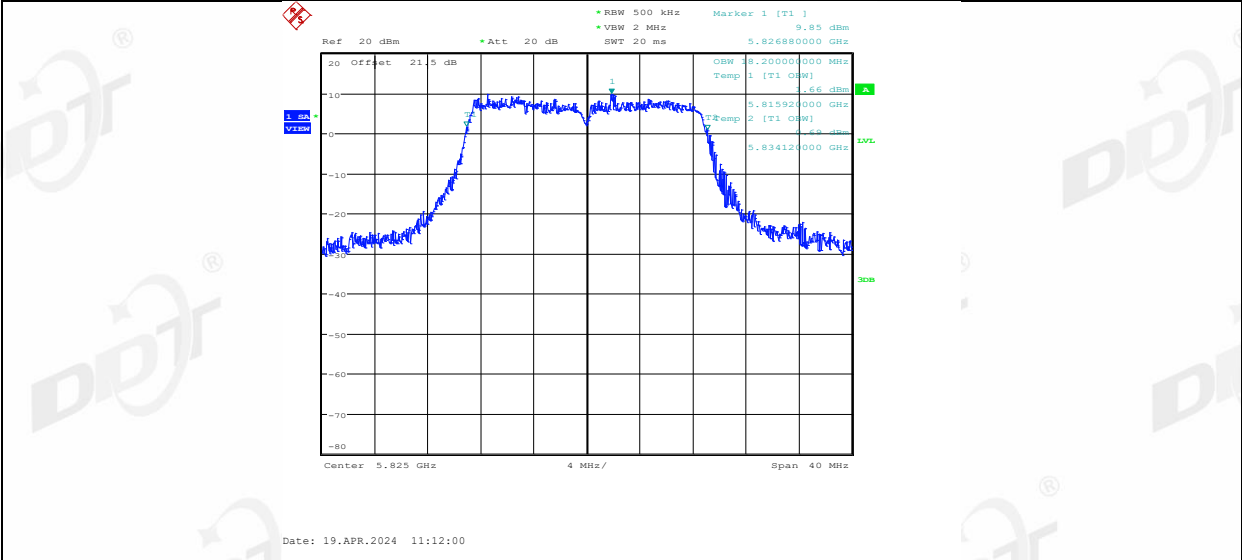
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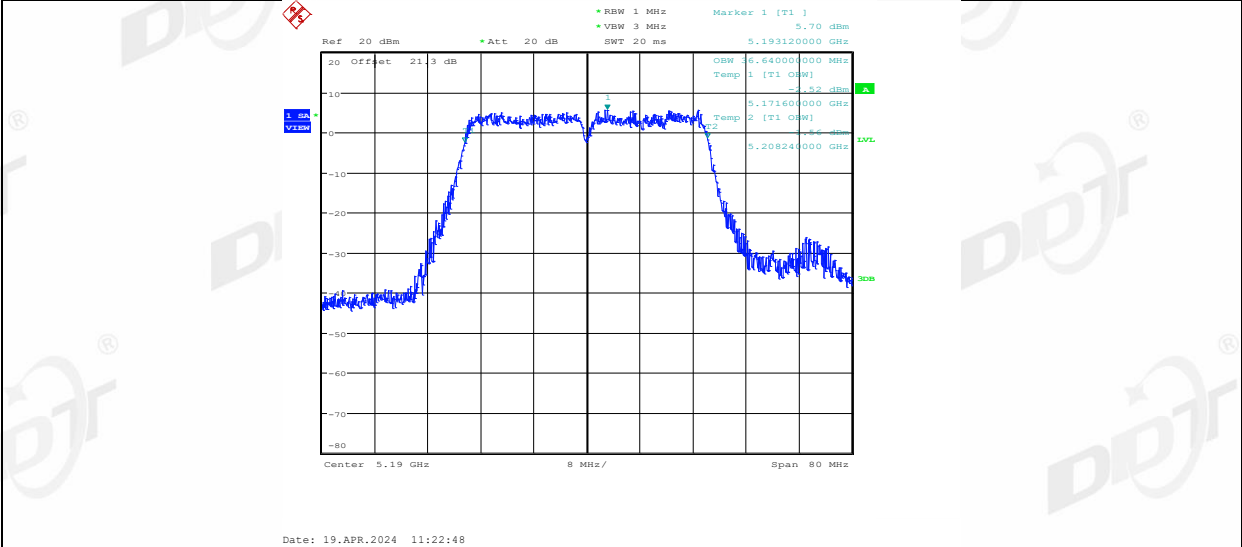
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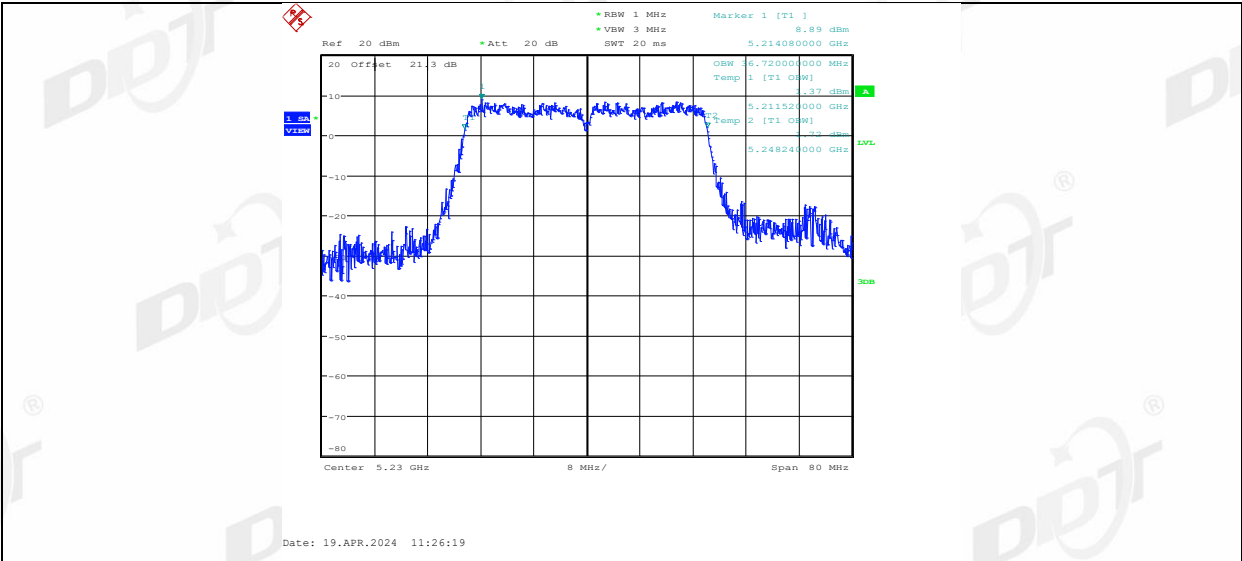
11N20SISO_Ant1_5825



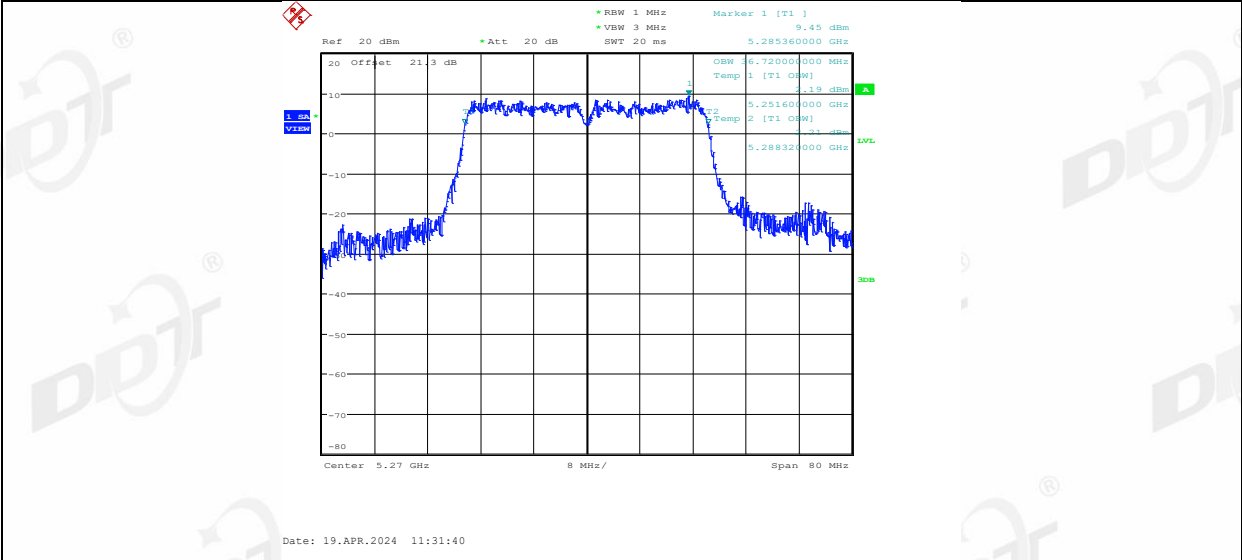
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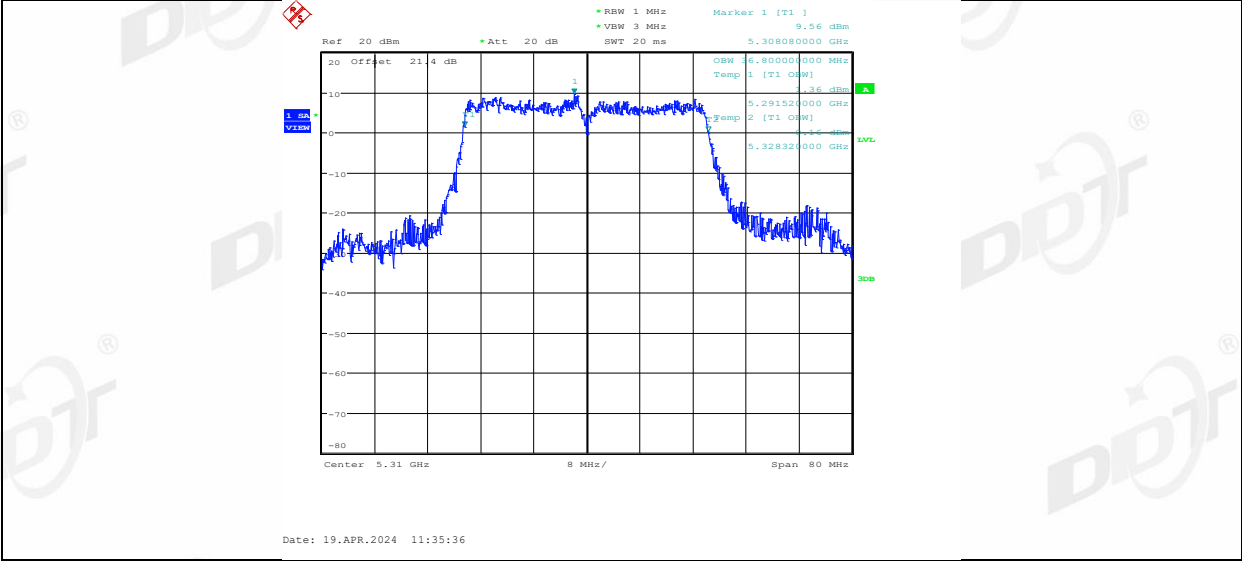
11N40SISO_Ant1_5230



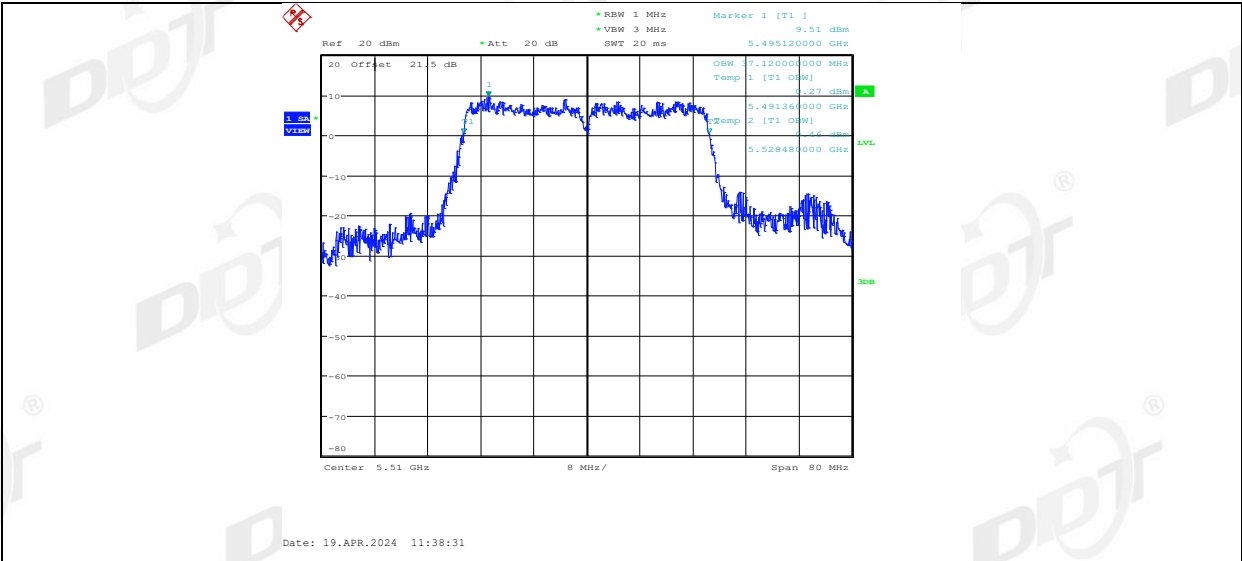
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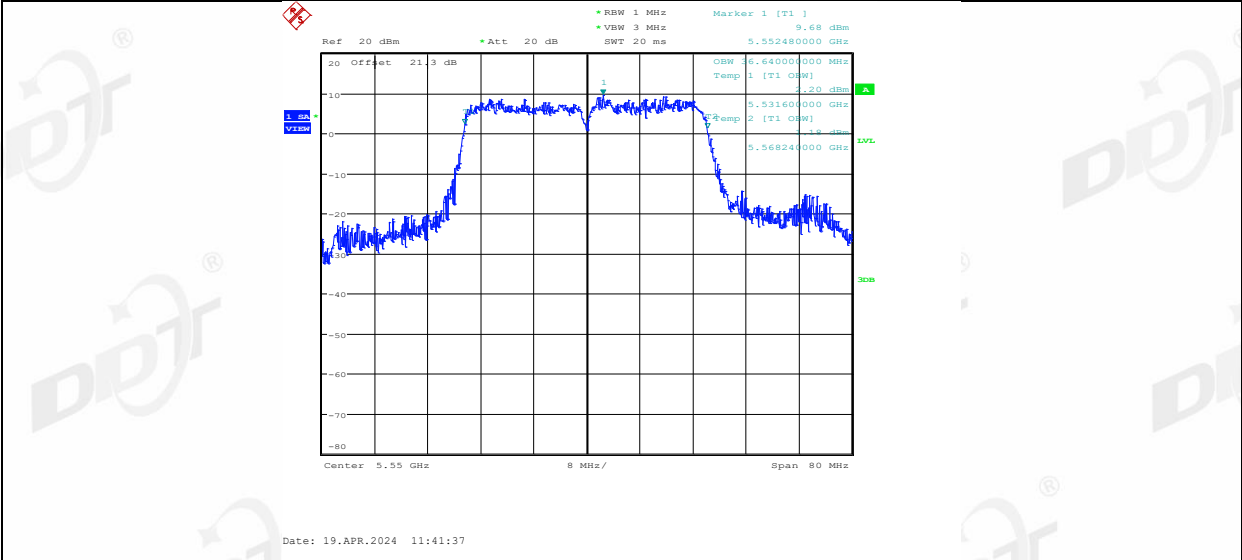
11N40SISO_Ant1_5310



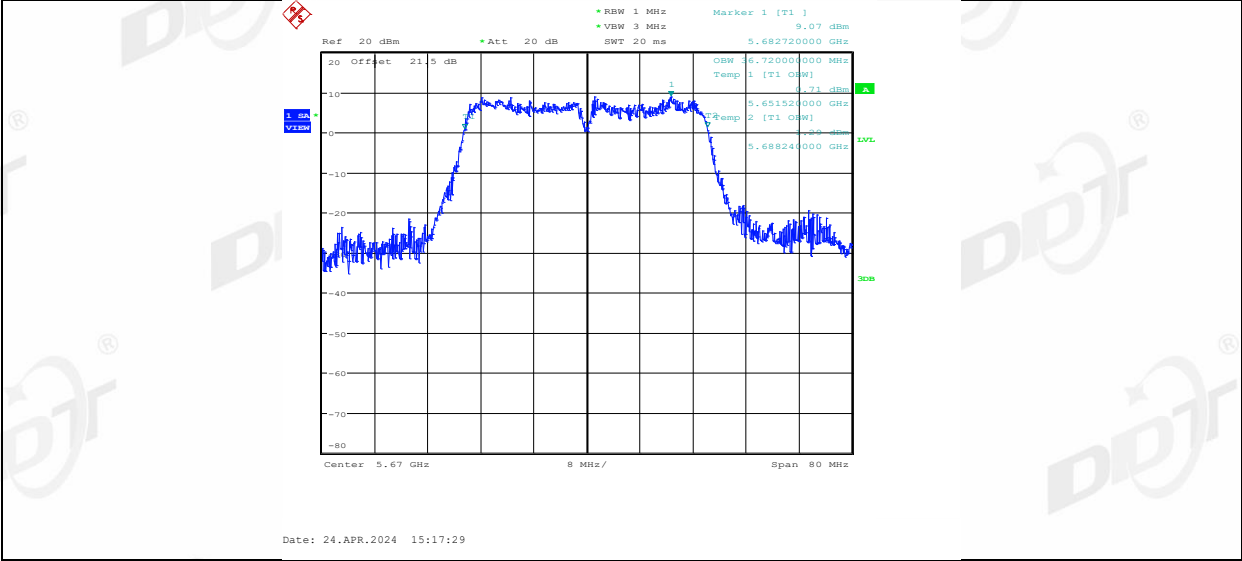
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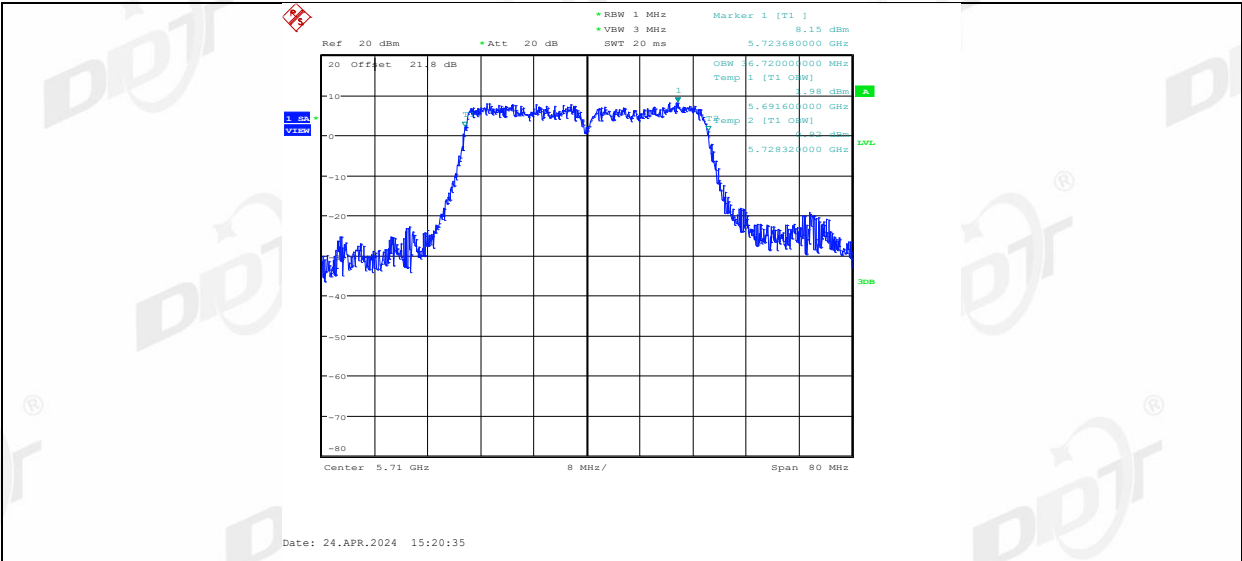
11N40SISO_Ant1_5550



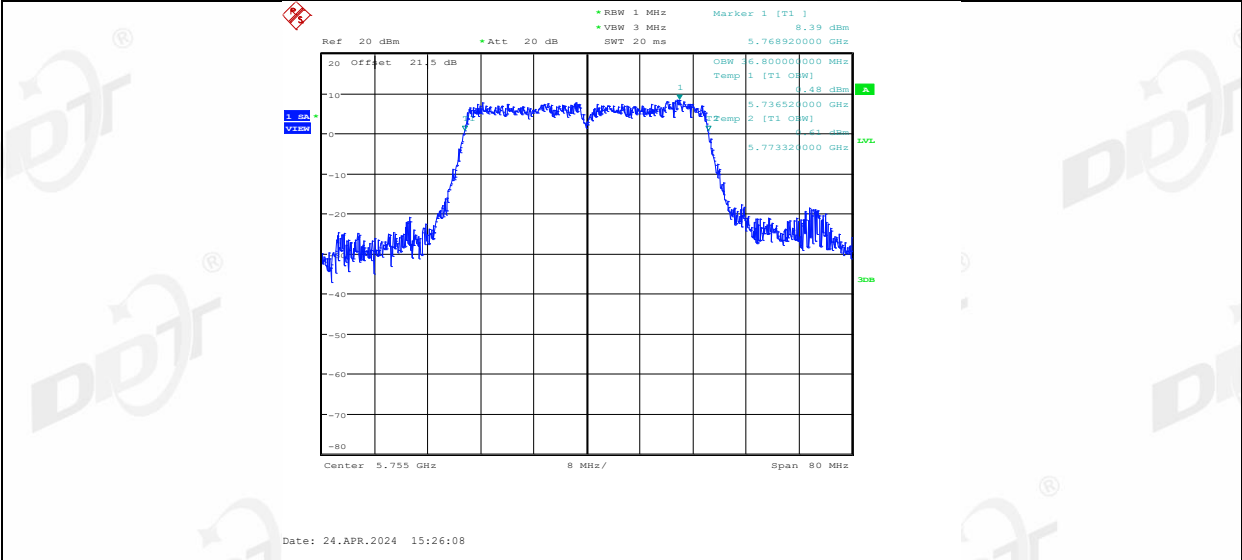
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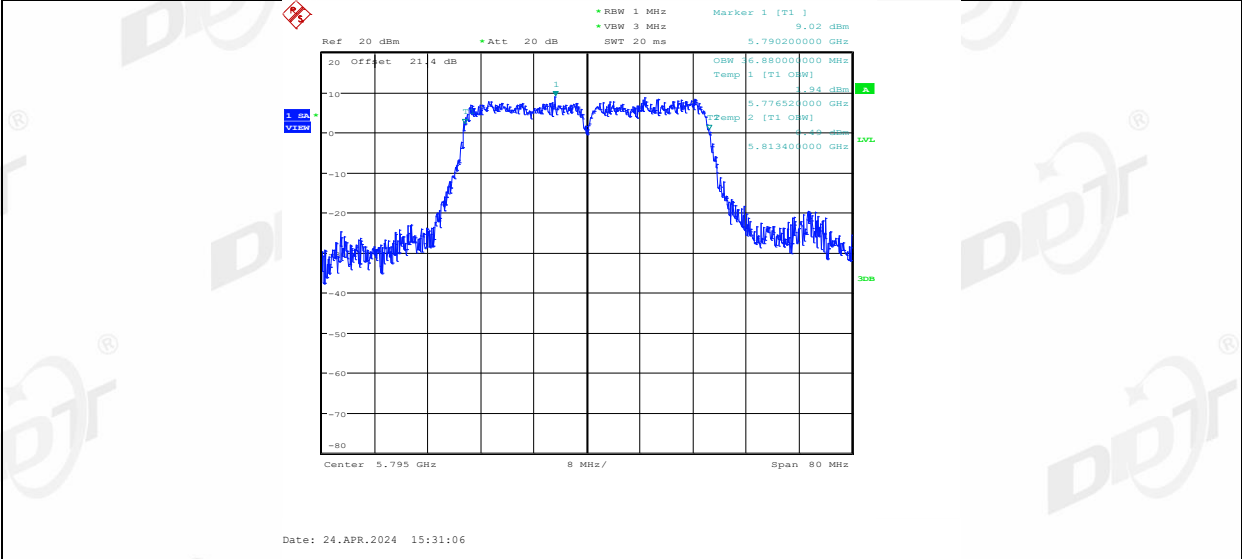
11N40SISO_Ant1_5710



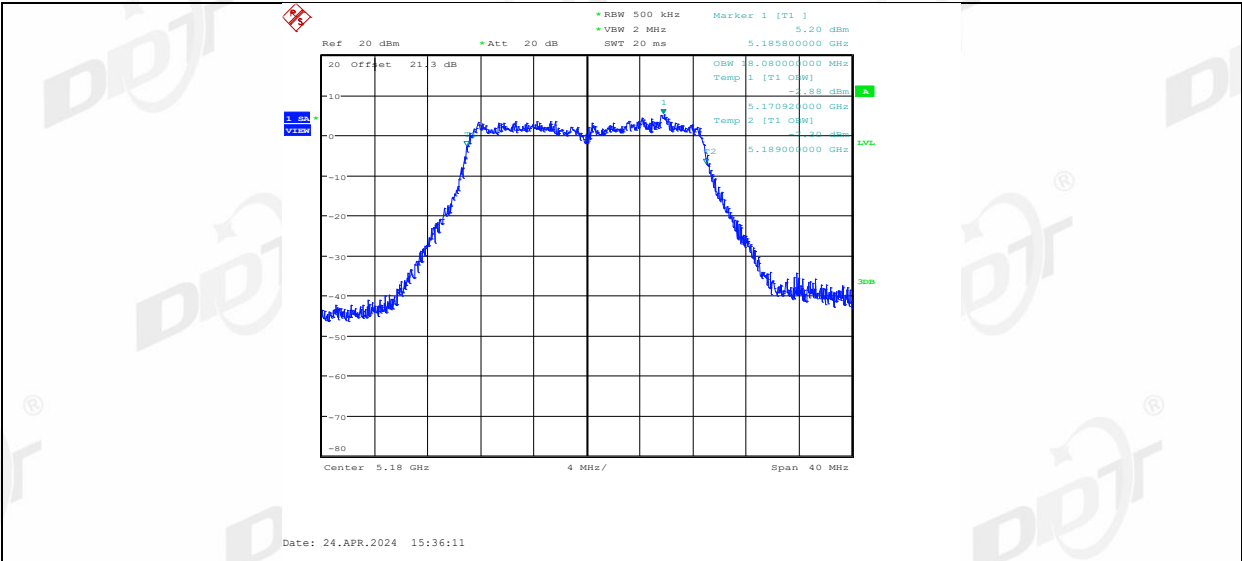
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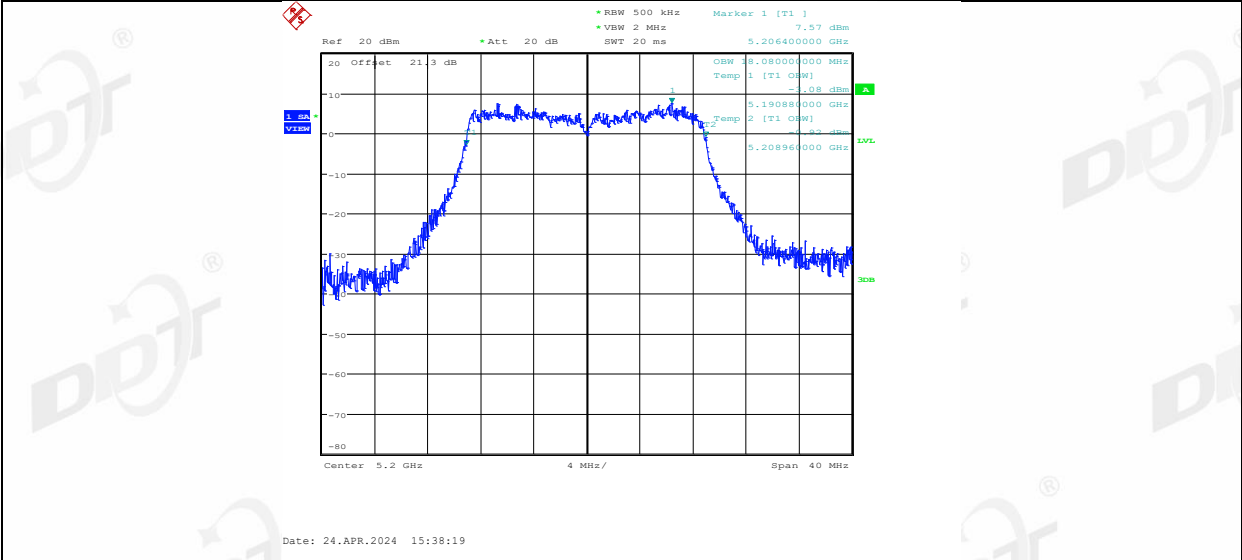
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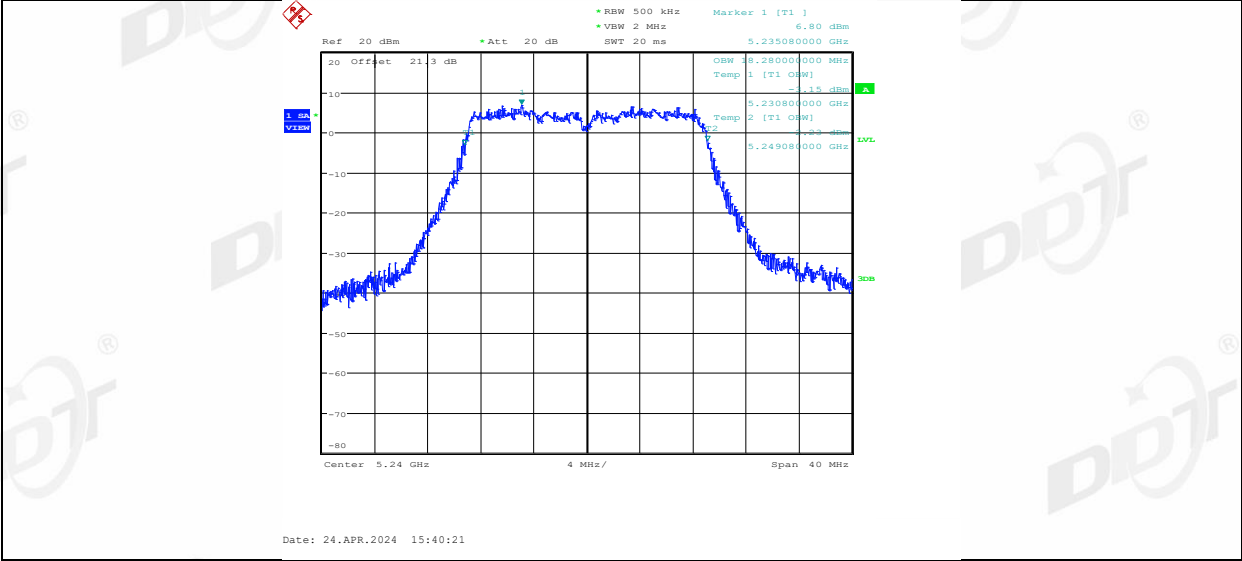
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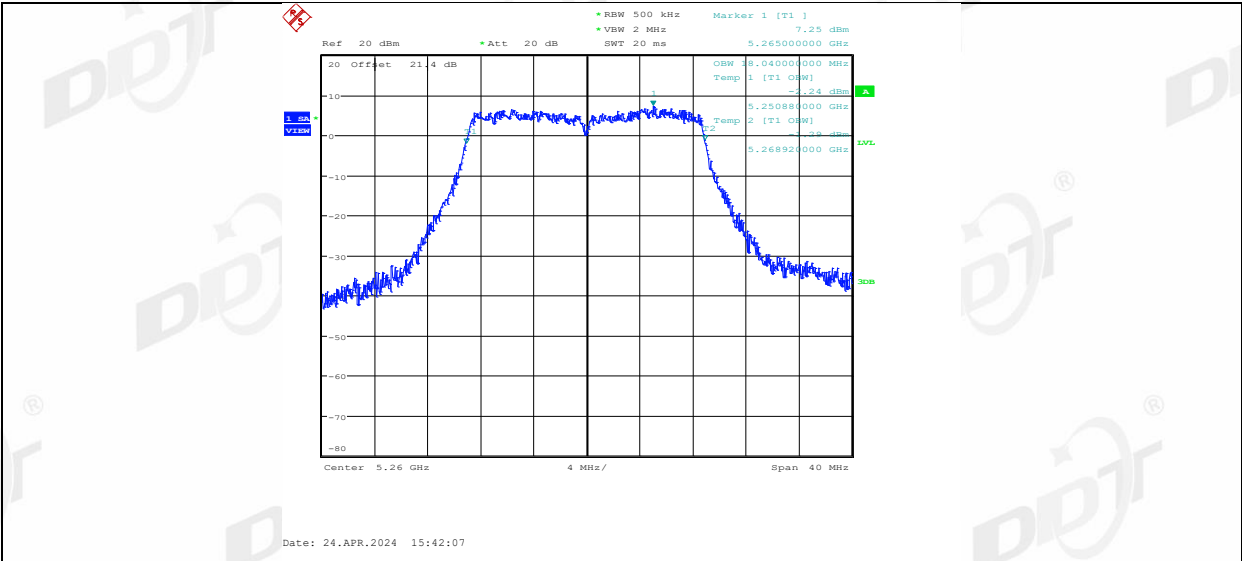
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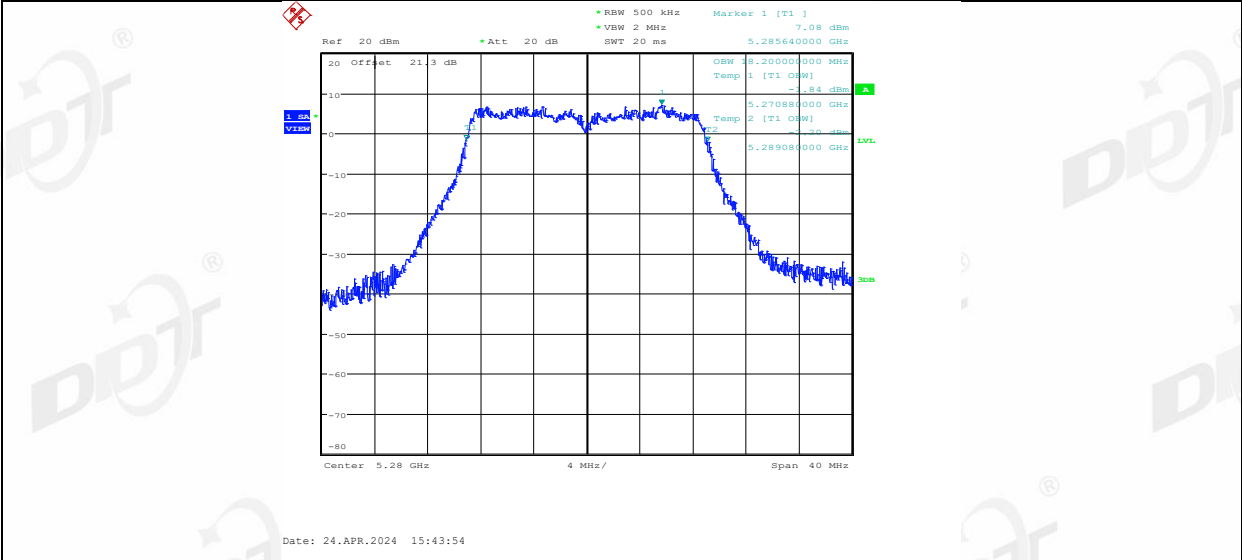
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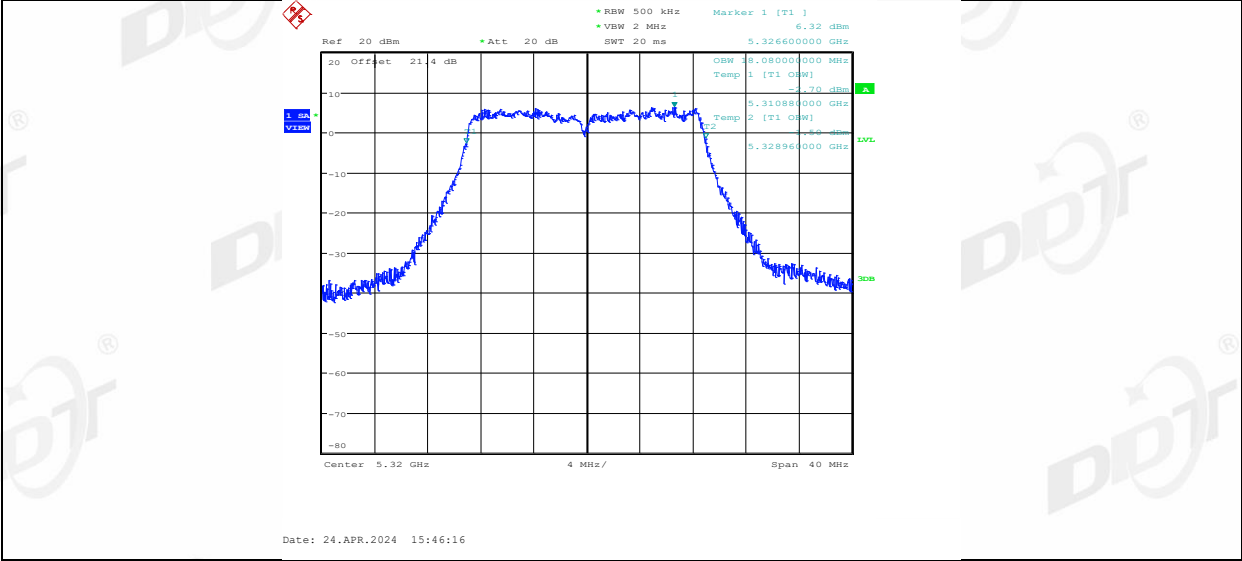
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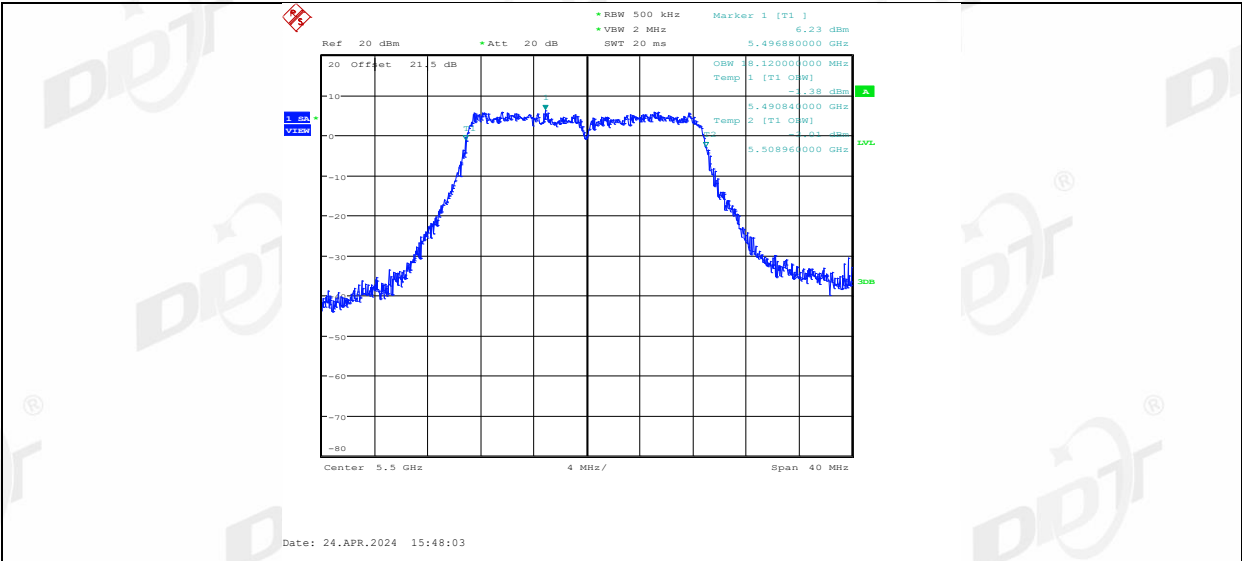
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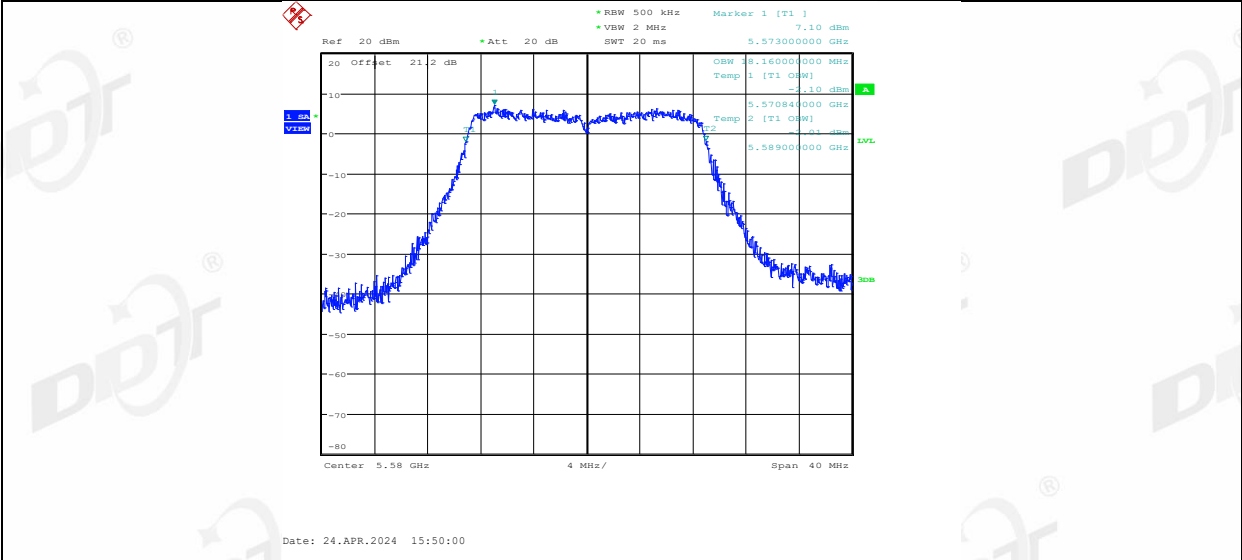
11AC20SISO_Ant1_5320



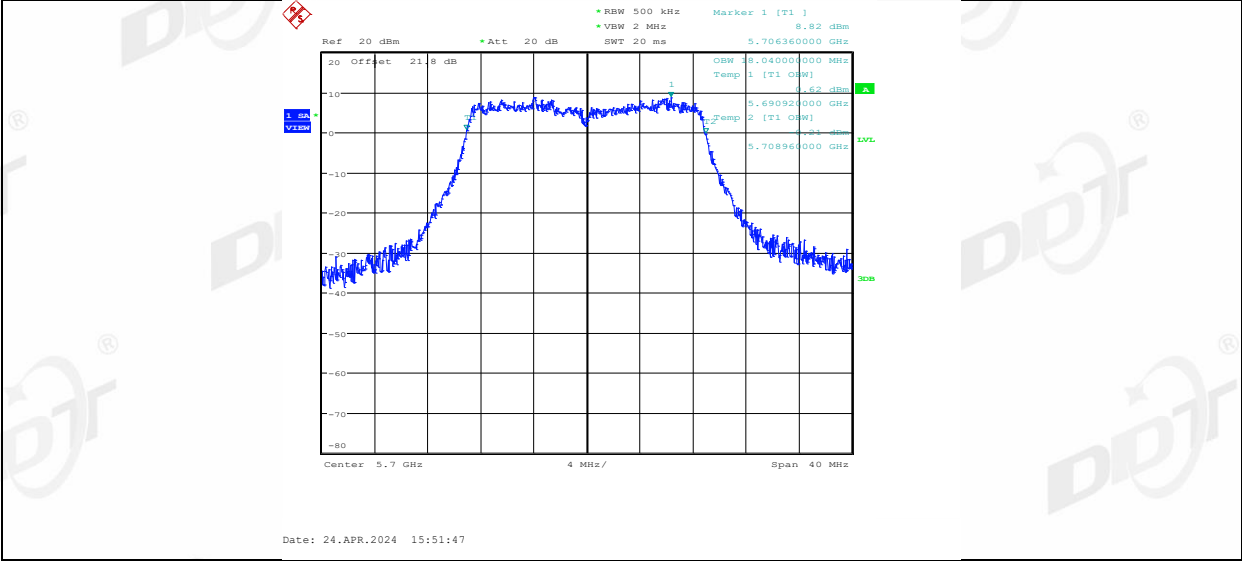
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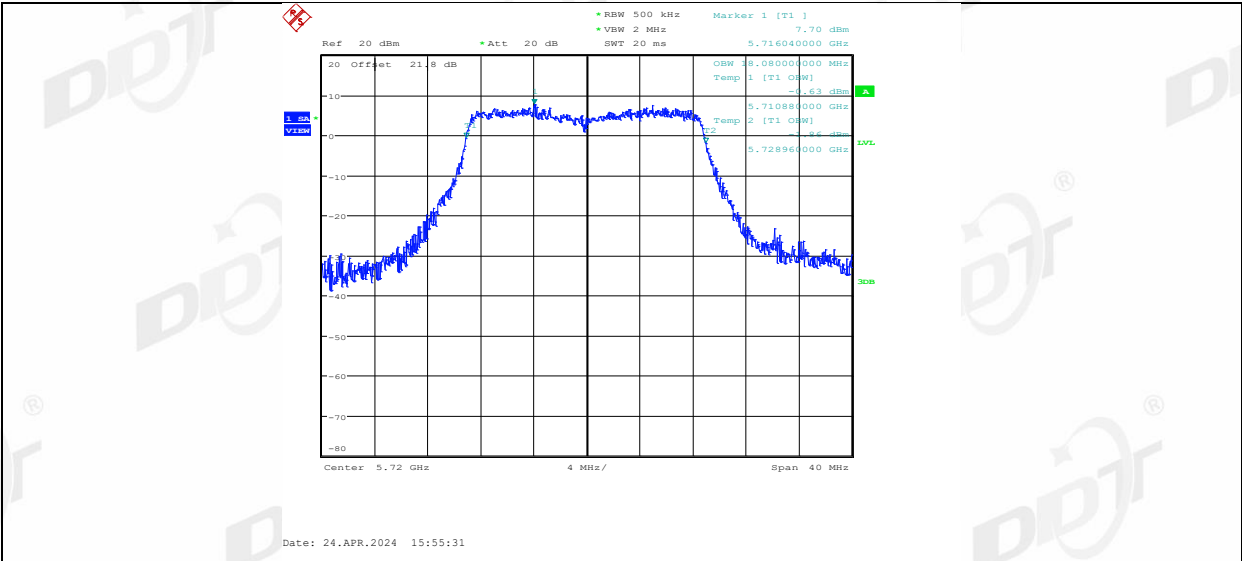
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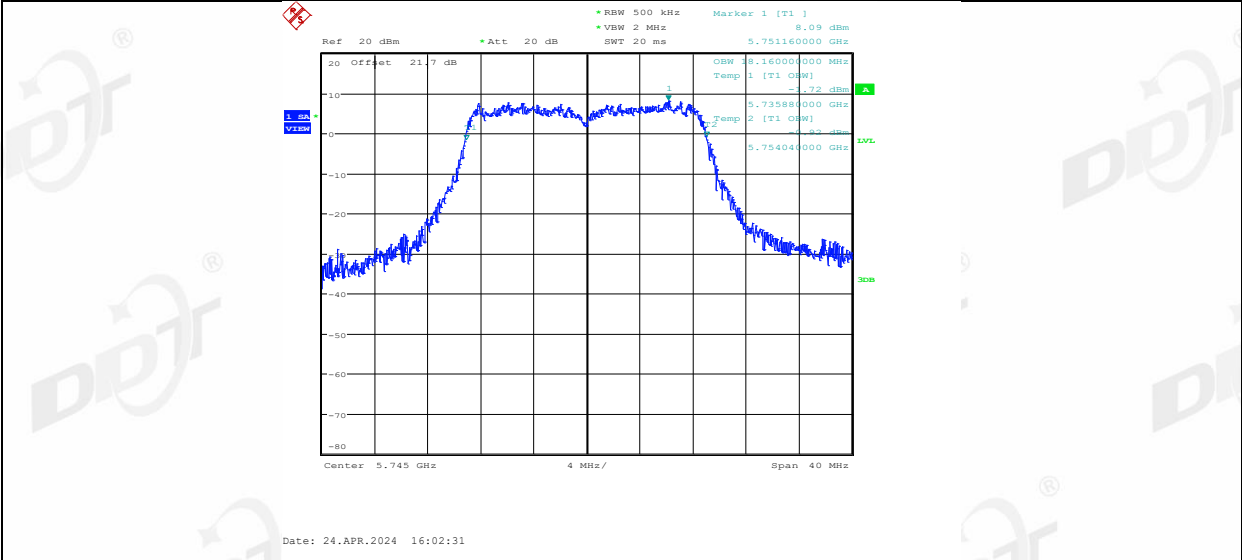
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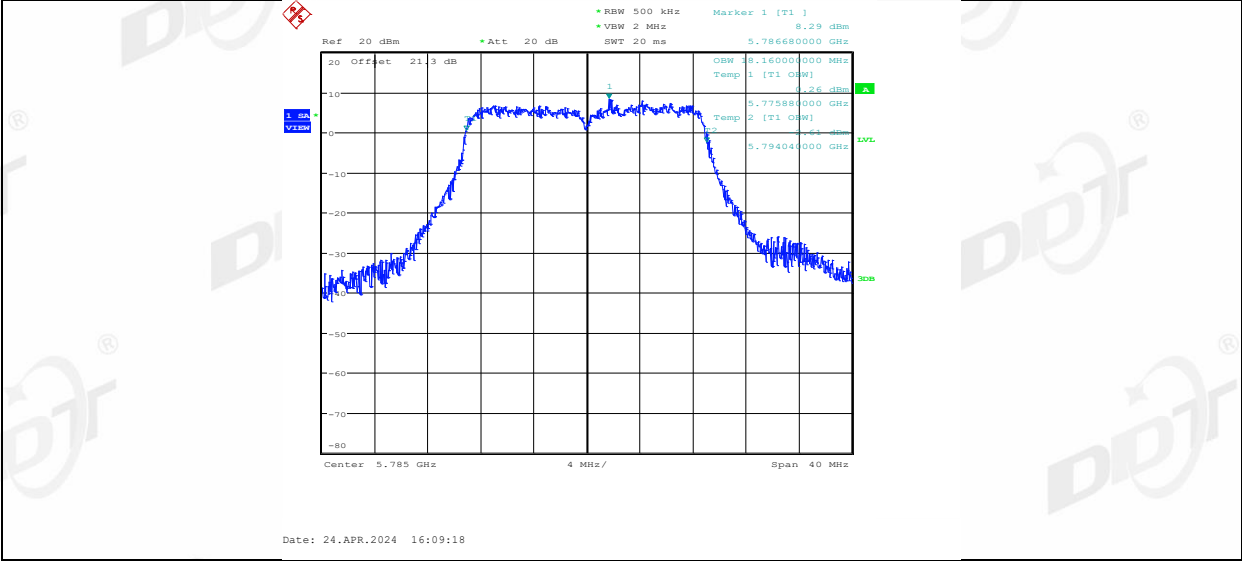
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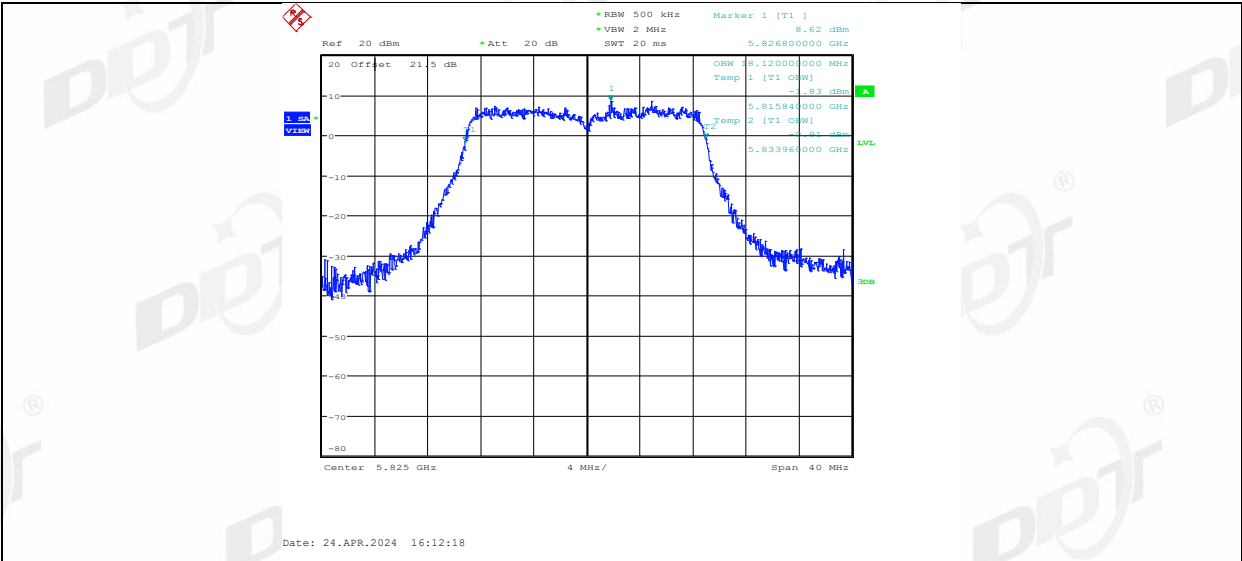
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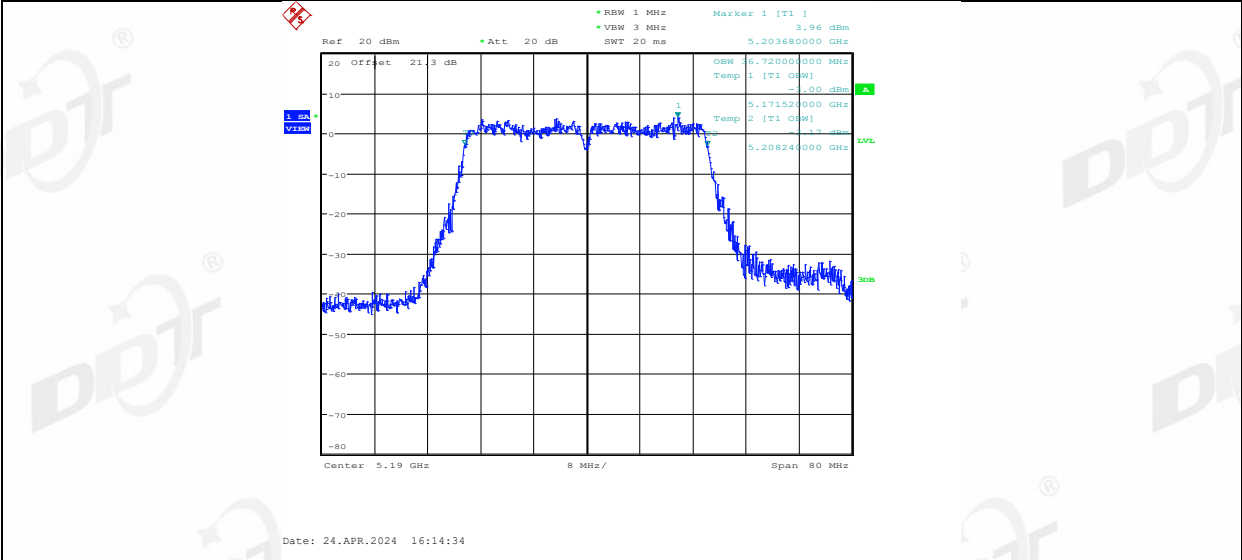
11AC20SISO_Ant1_5785



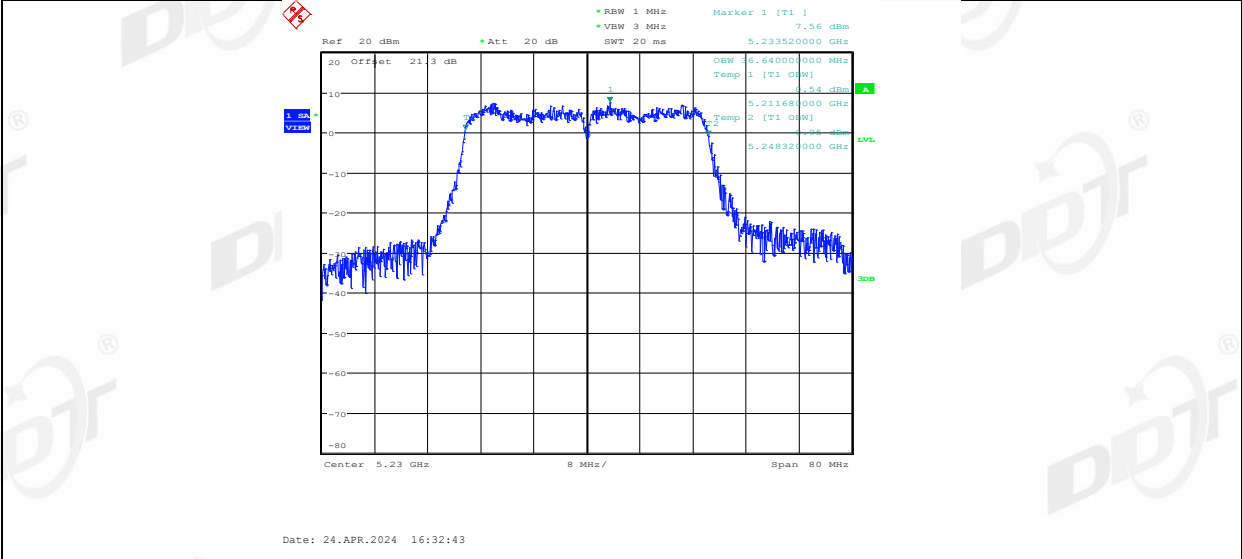
11AC20SISO_Ant1_5825



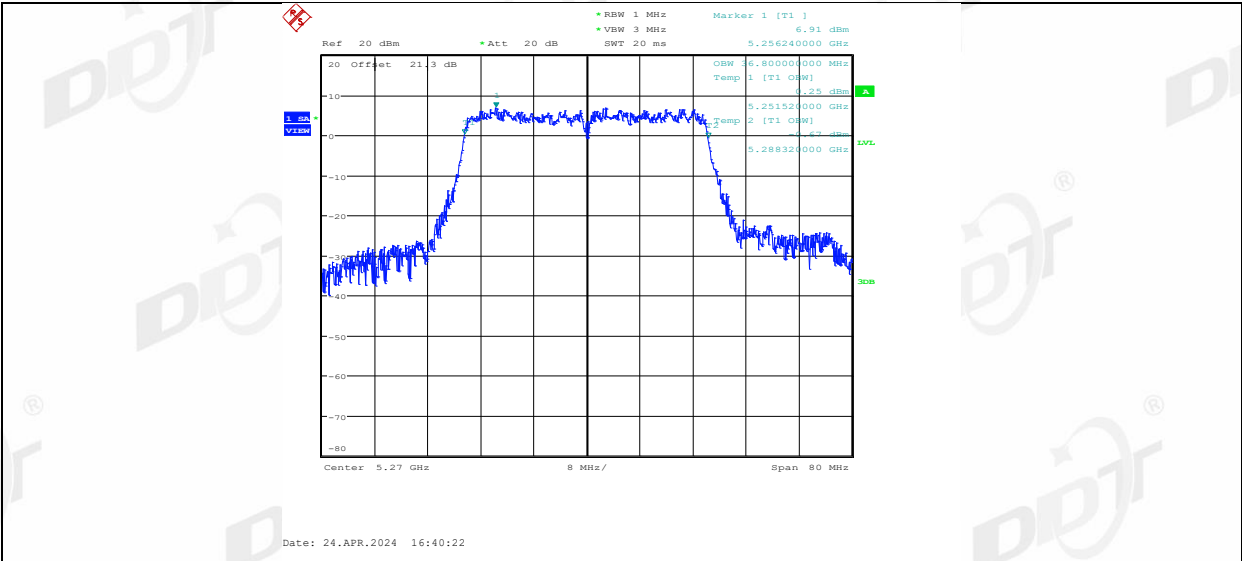
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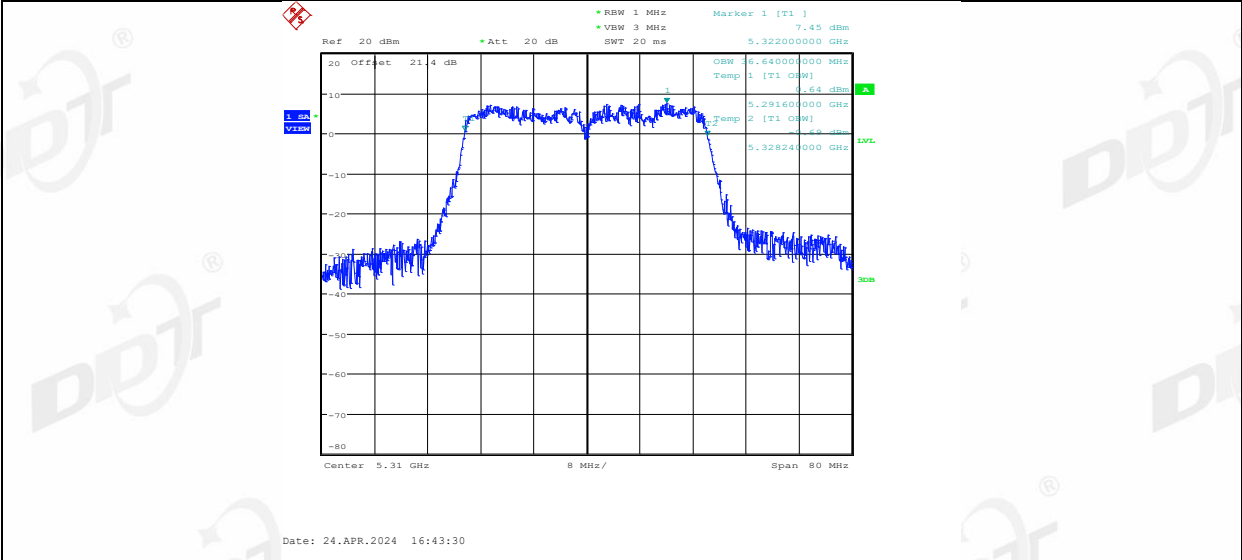
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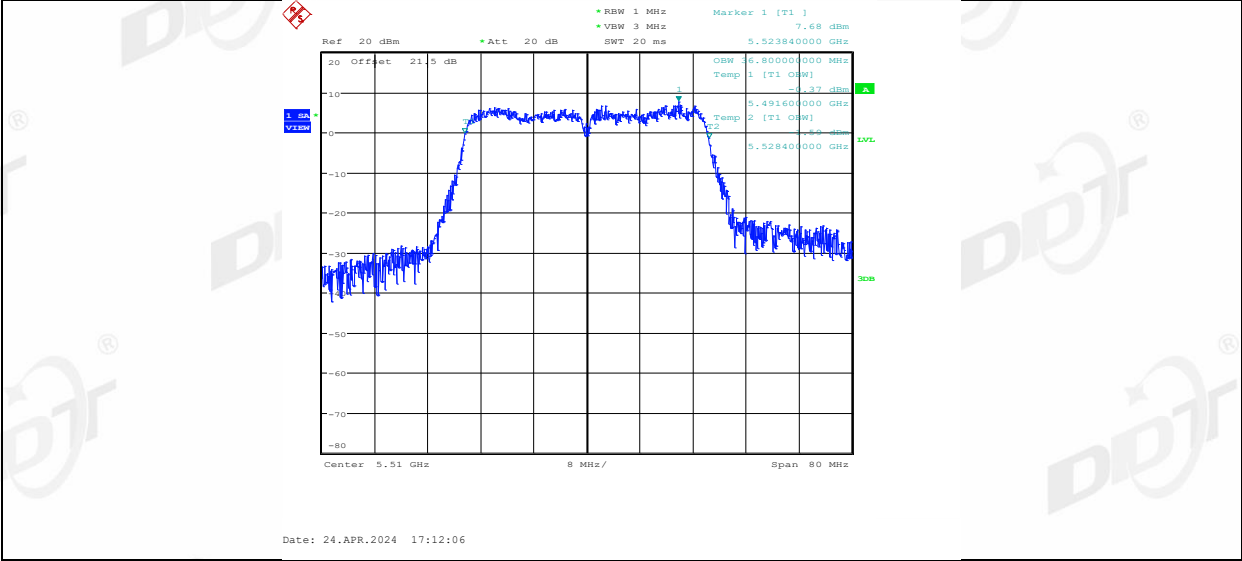
11AC40SISO_Ant1_5270



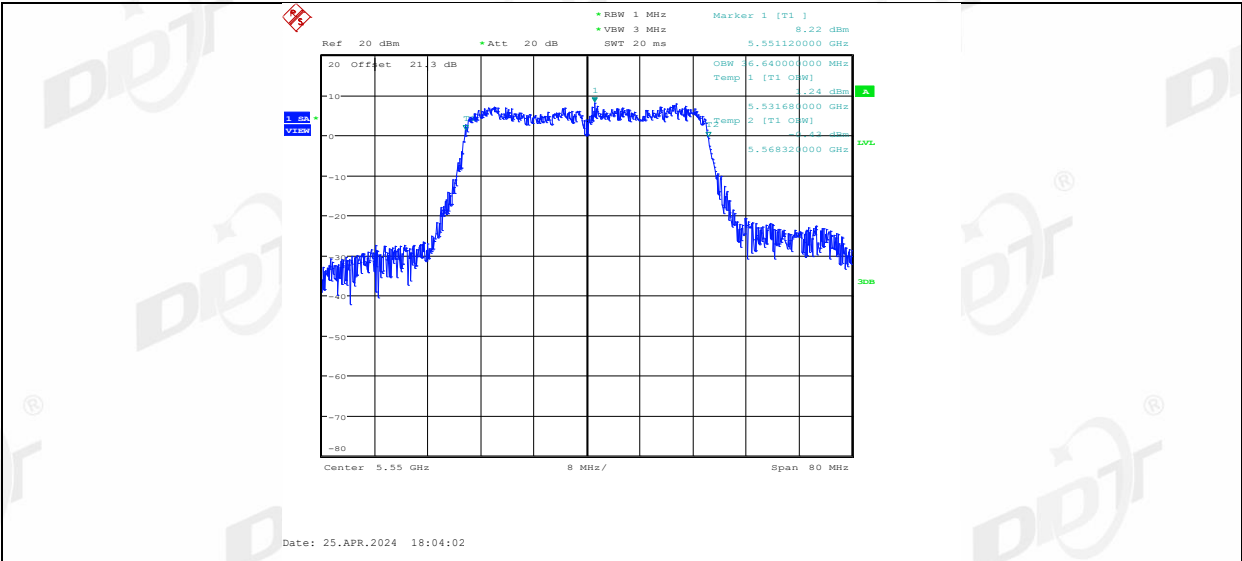
11AC40SISO_Ant1_5310



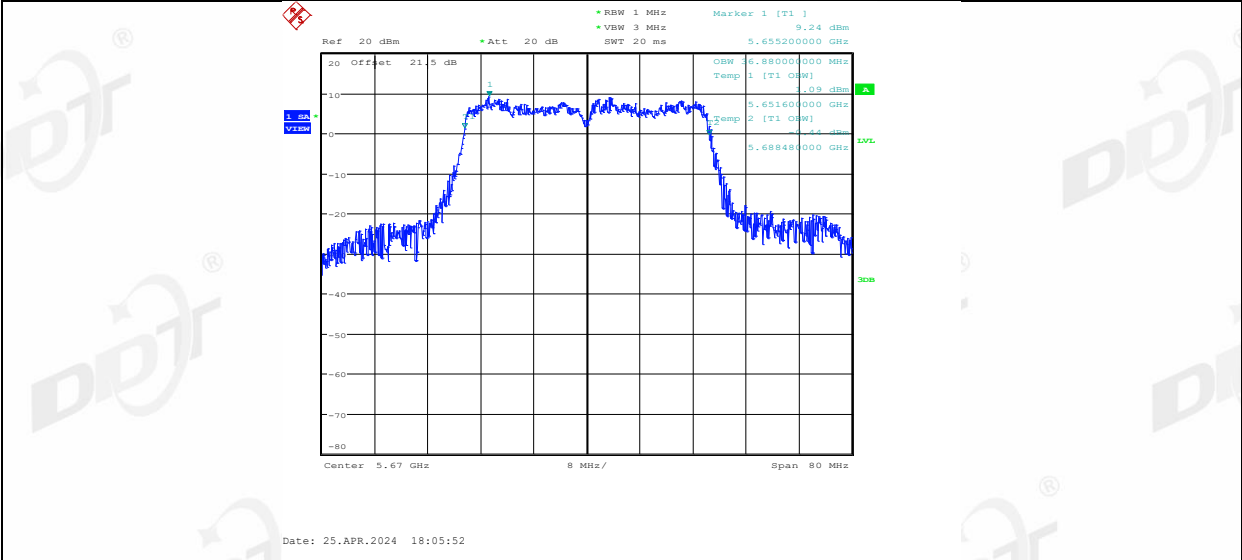
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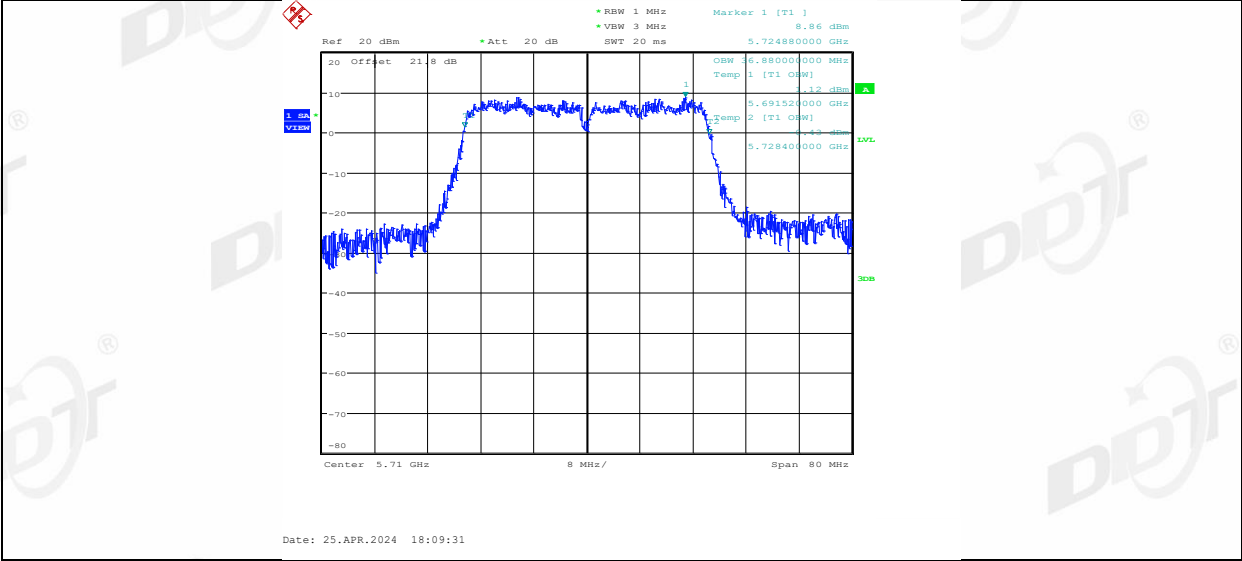
11AC40SISO_Ant1_5550



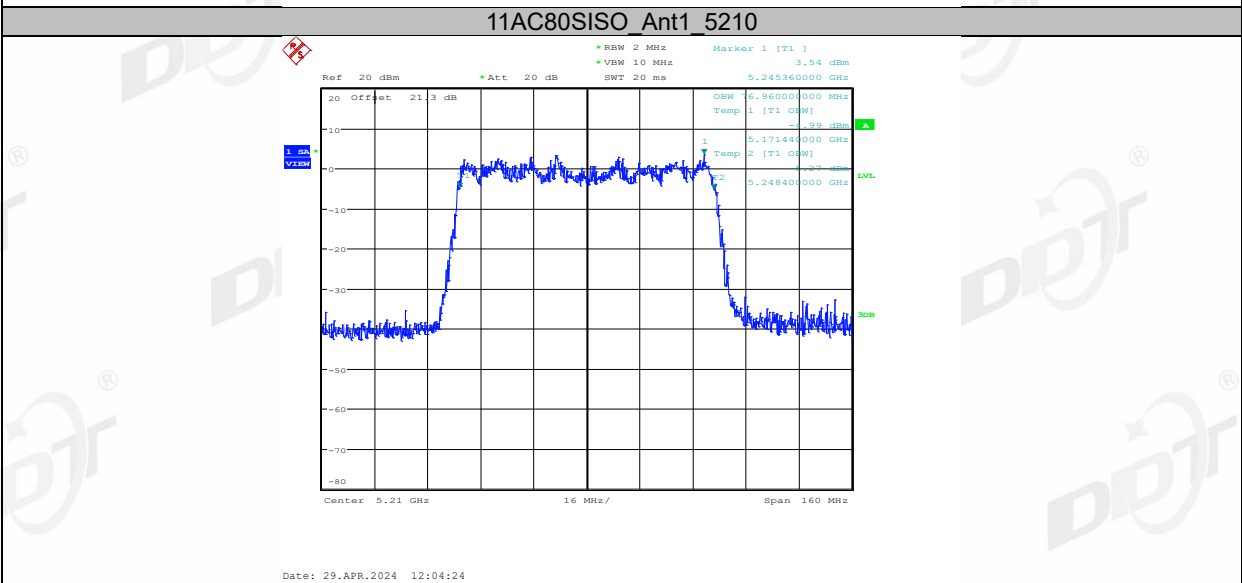
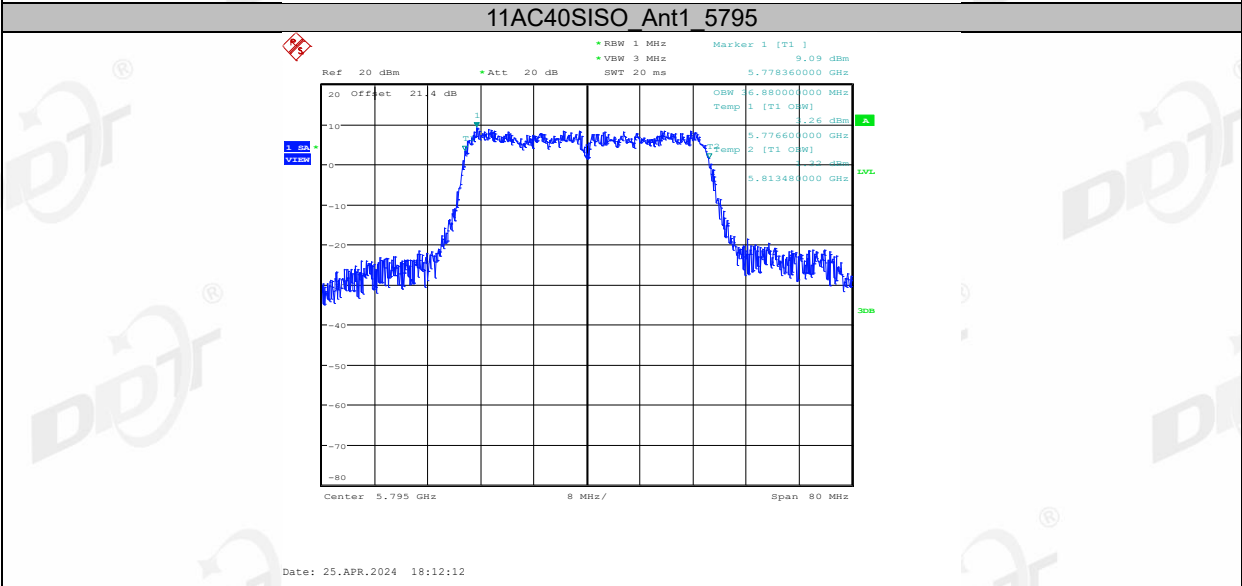
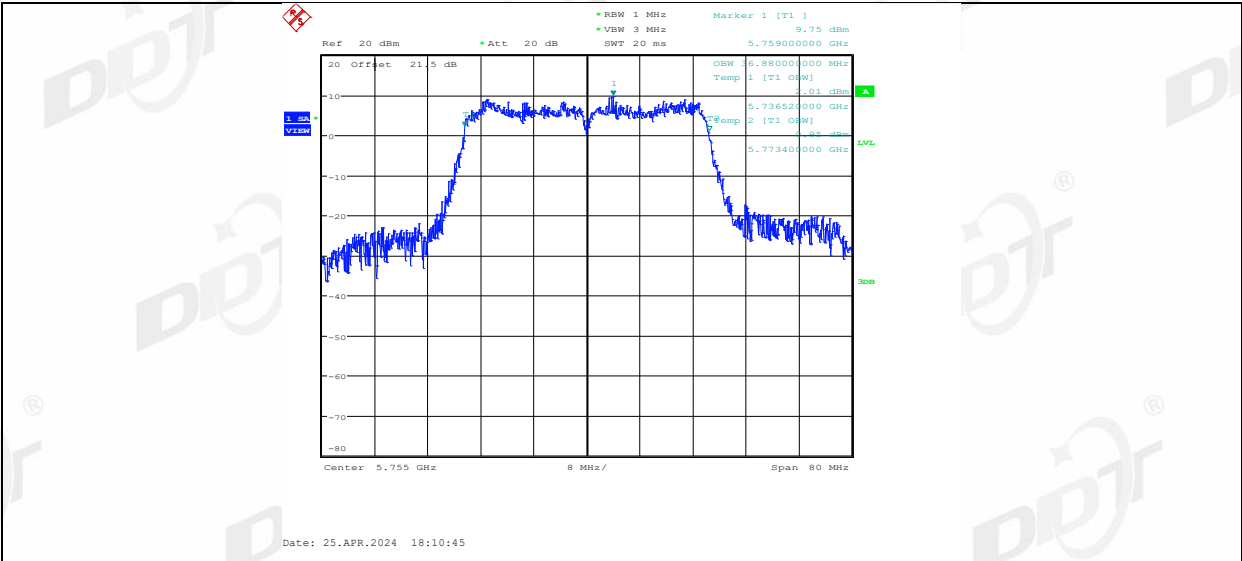
11AC40SISO_Ant1_5670



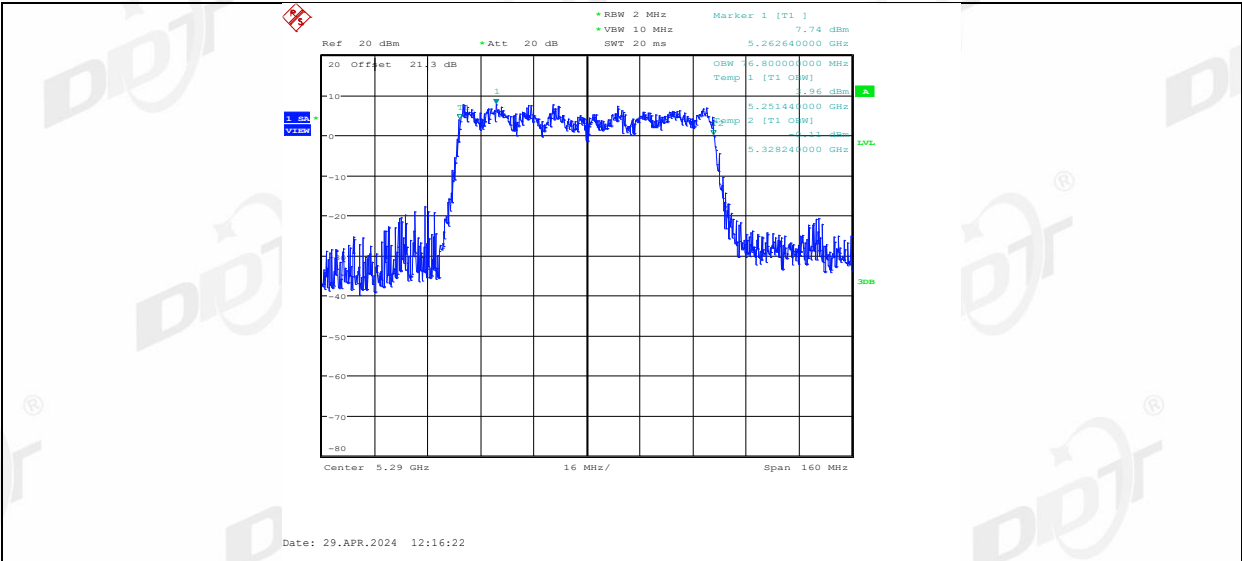
11AC40SISO_Ant1_5710



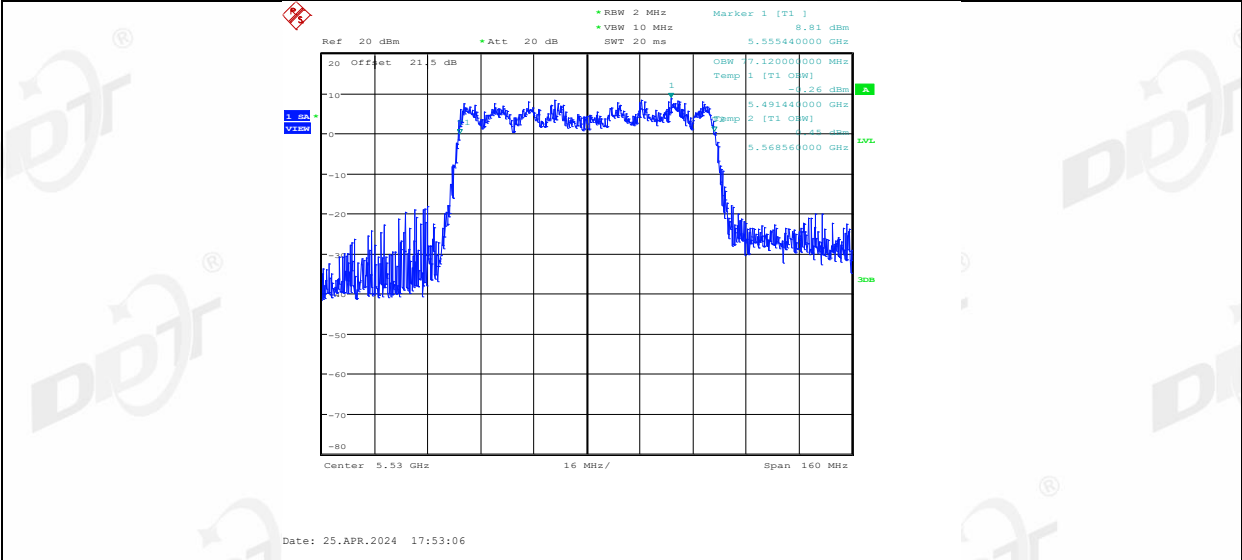
11AC40SISO_Ant1_5755



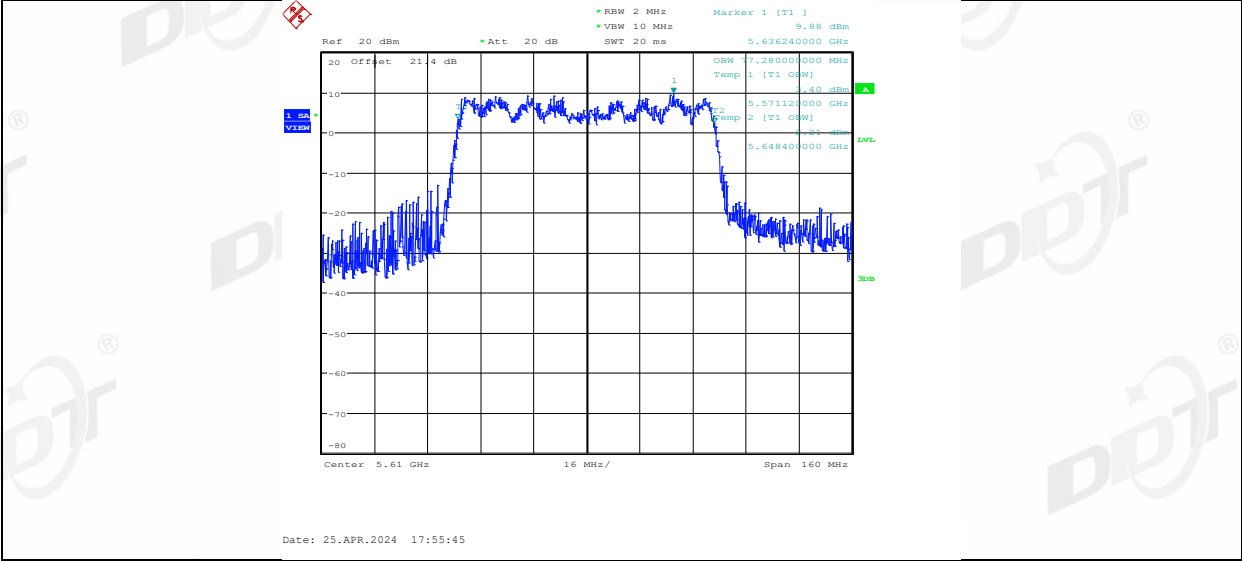
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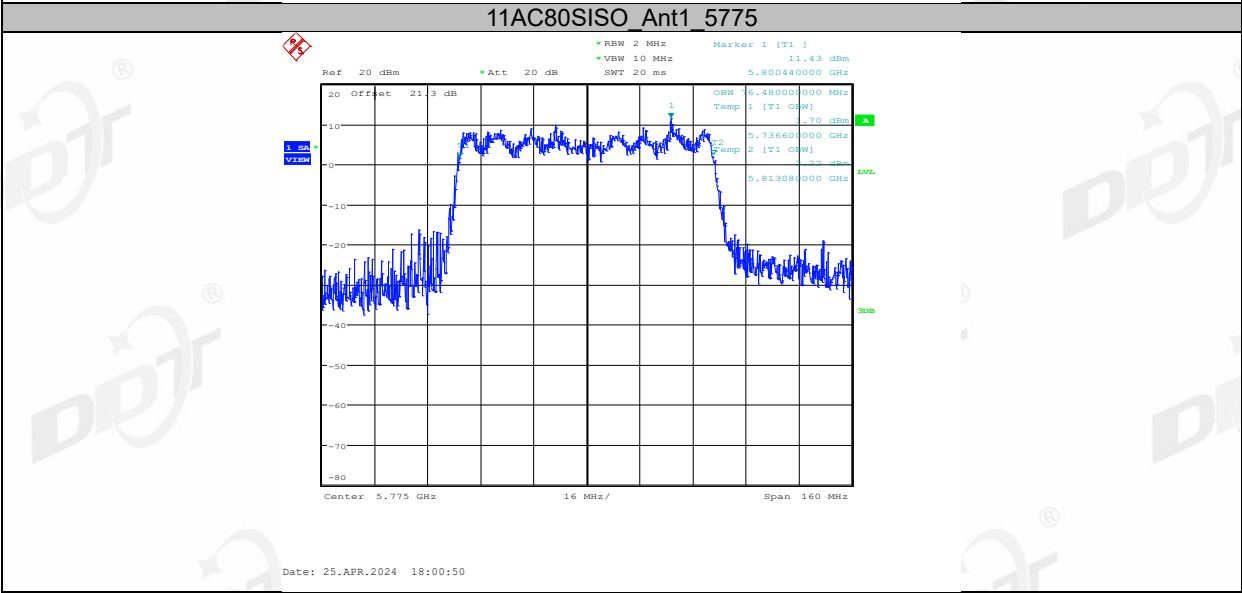
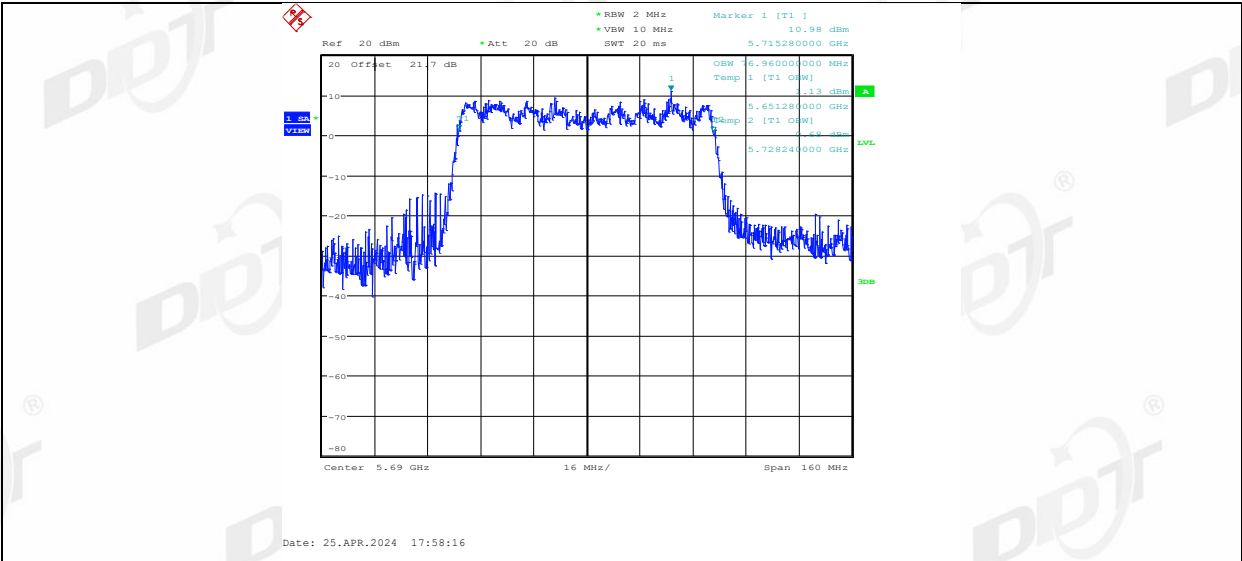
11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610

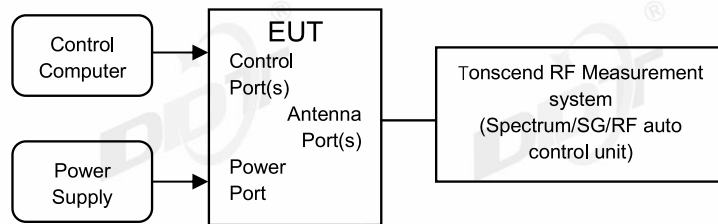


11AC80SISO_Ant1_5690



7. Duty Cycle

7.1. Block diagram of test setup



7.2. Limit

Just for Report.

7.3. Test procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:
Centre Frequency: The centre frequency of the middle hopping channel.
Resolution BW: 10 MHz.
Video BW: 10 MHz.
Span: Zero span.
Detector: Peak.
Trace Mode: Clear Write.
Sweep: Video Trigger
- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- (3) Calculate dwell time follow below formula:
Duty cycle= Pulse's on time / Burst cycle

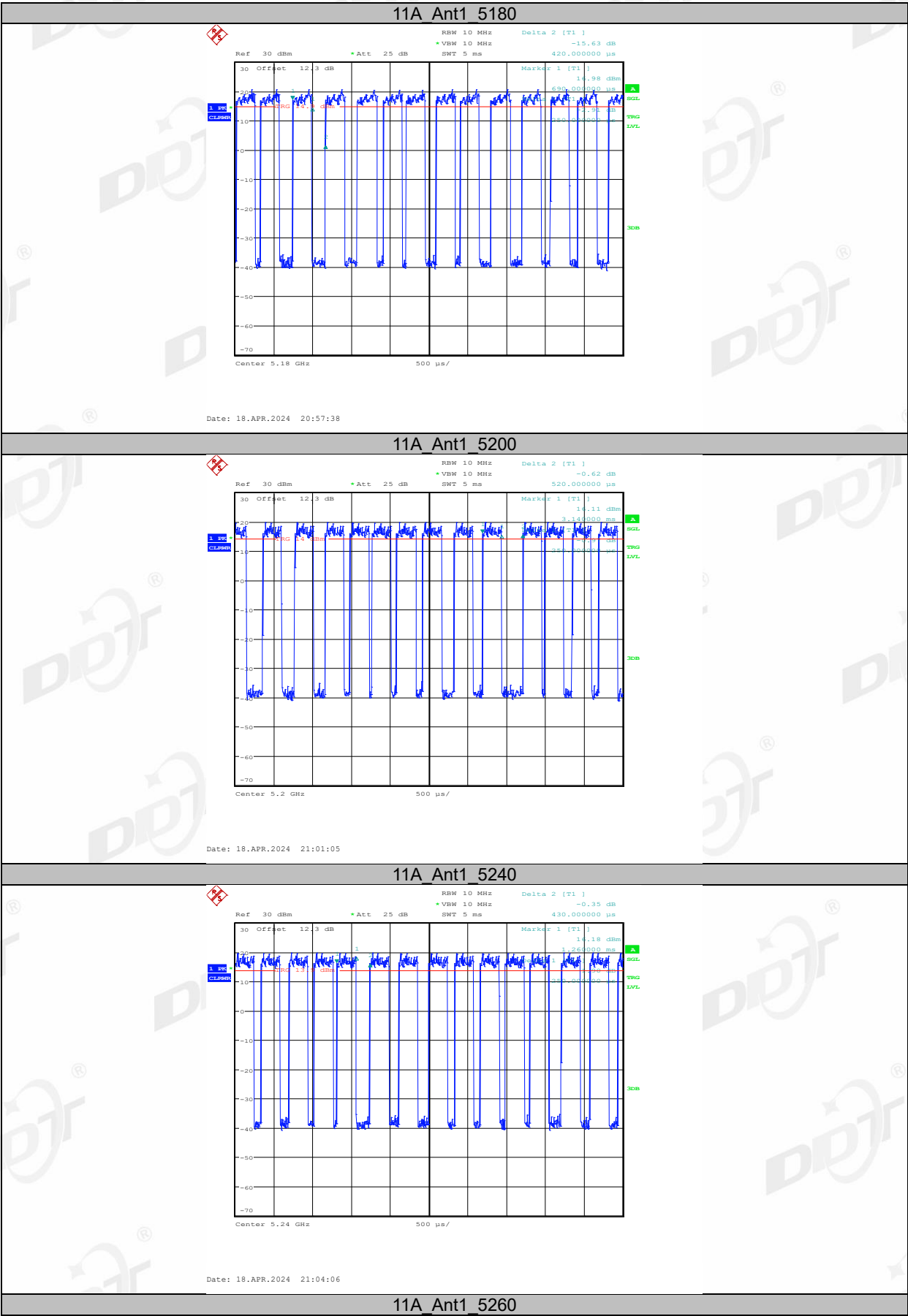
7.4. Test result

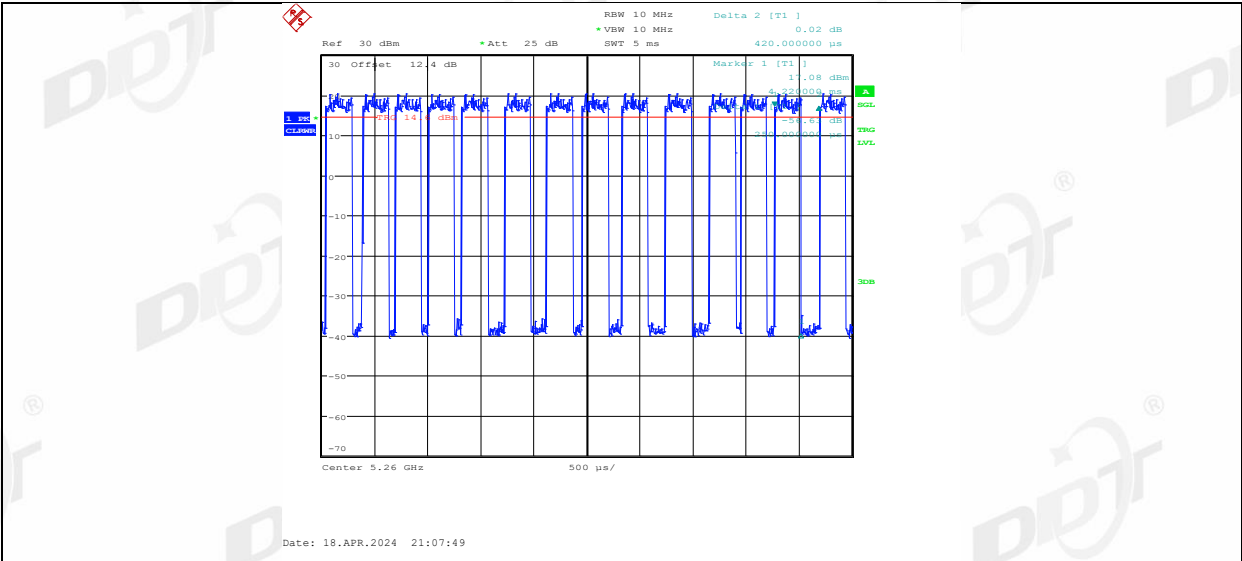
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.3℃,60.6%RH	Test Date:	2024.04.19-2024.04.28
Test Power Supply:	DC 5V from external adapter	Sample Number:	S24021902-001

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	0.25	0.42	59.52
		5200	0.25	0.52	48.08
		5240	0.25	0.43	58.14
		5260	0.25	0.42	59.52
		5280	0.25	0.40	62.50
		5320	0.25	0.42	59.52
		5500	0.24	0.40	60.00
		5580	0.25	0.43	58.14
		5700	0.25	0.42	59.52
		5720	0.25	0.40	62.50
		5745	0.25	0.42	59.52
		5785	0.25	0.41	60.98
		5825	0.25	0.42	59.52
11N20SISO	Ant1	5180	0.23	0.41	56.10
		5200	0.23	0.40	57.50
		5240	0.23	0.41	56.10
		5260	0.23	0.40	57.50
		5280	0.23	0.39	58.97
		5320	0.23	0.39	58.97
		5500	0.23	0.40	57.50
		5580	0.23	0.41	56.10
		5700	0.23	0.41	56.10
		5720	0.23	0.39	58.97
		5745	0.23	0.41	56.10
		5785	0.23	0.38	60.53
		5825	0.23	0.40	57.50
11N40SISO	Ant1	5190	0.13	0.30	43.33
		5230	0.13	0.31	41.94
		5270	0.12	0.30	40.00
		5310	0.13	0.31	41.94
		5510	0.13	0.31	41.94
		5550	0.13	0.29	44.83
		5670	0.13	0.31	41.94
		5710	0.12	0.30	40.00
		5755	0.13	0.29	44.83
		5795	0.13	0.30	43.33
11AC20SISO	Ant1	5180	0.20	0.36	55.56
		5200	0.20	0.37	54.05
		5240	0.20	0.38	52.63
		5260	0.20	0.36	55.56
		5280	0.20	0.38	52.63
		5320	0.20	0.37	54.05
		5500	0.20	0.36	55.56
		5580	0.20	0.37	54.05
		5700	0.20	0.38	52.63
		5720	0.20	0.37	54.05
		5745	0.20	0.36	55.56
		5785	0.20	0.38	52.63
		5825	0.20	0.37	54.05
11AC40SISO	Ant1	5190	0.12	0.28	42.86
		5230	0.12	0.29	41.38
		5270	0.12	0.29	41.38
		5310	0.12	0.29	41.38
		5510	0.11	0.27	40.74
		5550	0.11	0.28	39.29

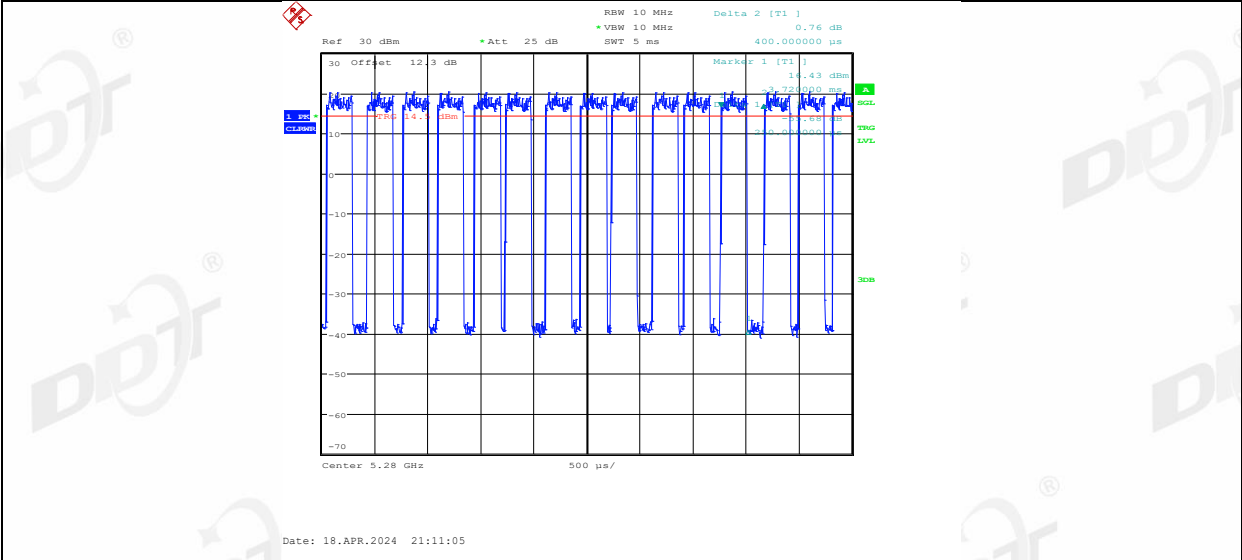
		5670	0.11	0.28	39.29
		5710	0.12	0.29	41.38
		5755	0.12	0.28	42.86
		5795	0.11	0.28	39.29
11AC80SISO	Ant1	5210	0.07	0.24	29.17
		5290	0.08	0.25	32.00
		5530	0.07	0.25	28.00
		5610	0.59	1.52	38.82
		5690	0.07	0.24	29.17
		5775	0.08	0.24	33.33

7.5. Test graphs

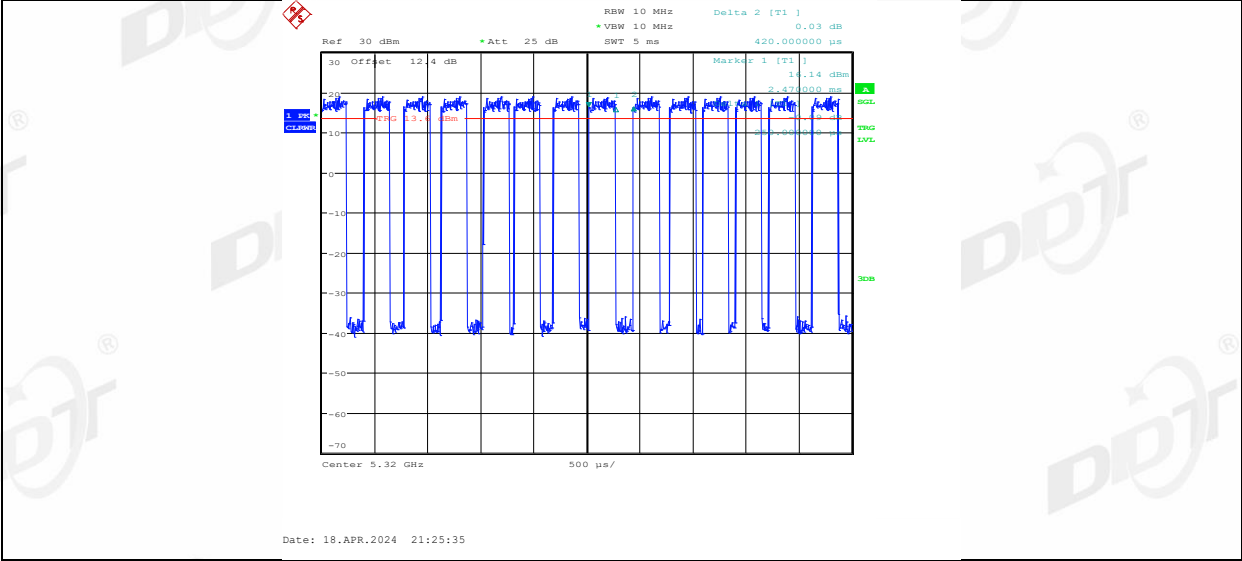




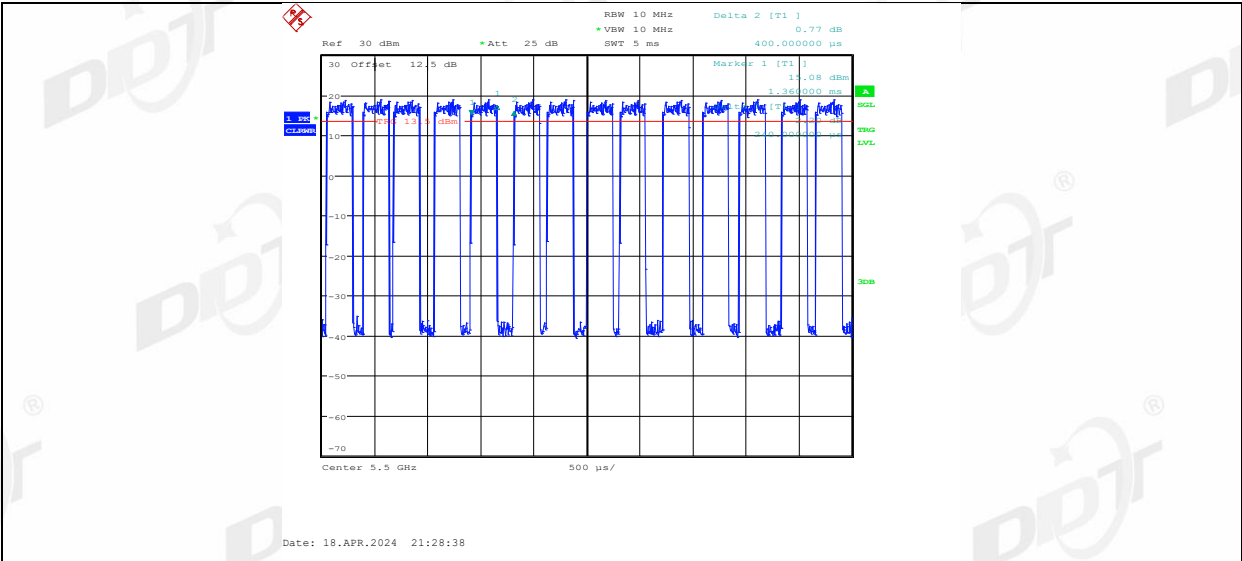
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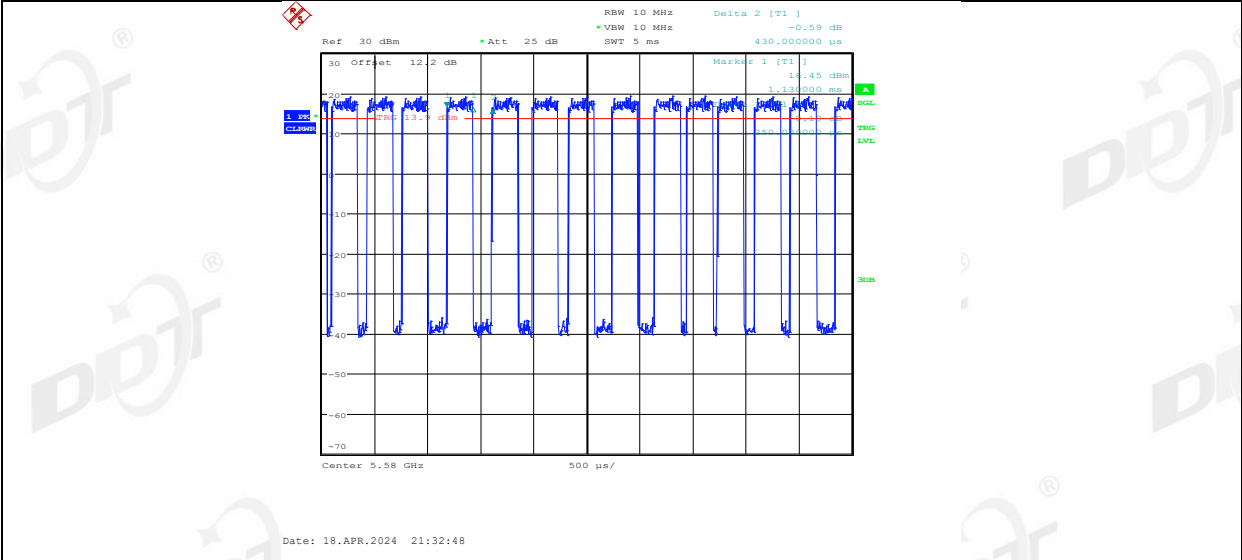
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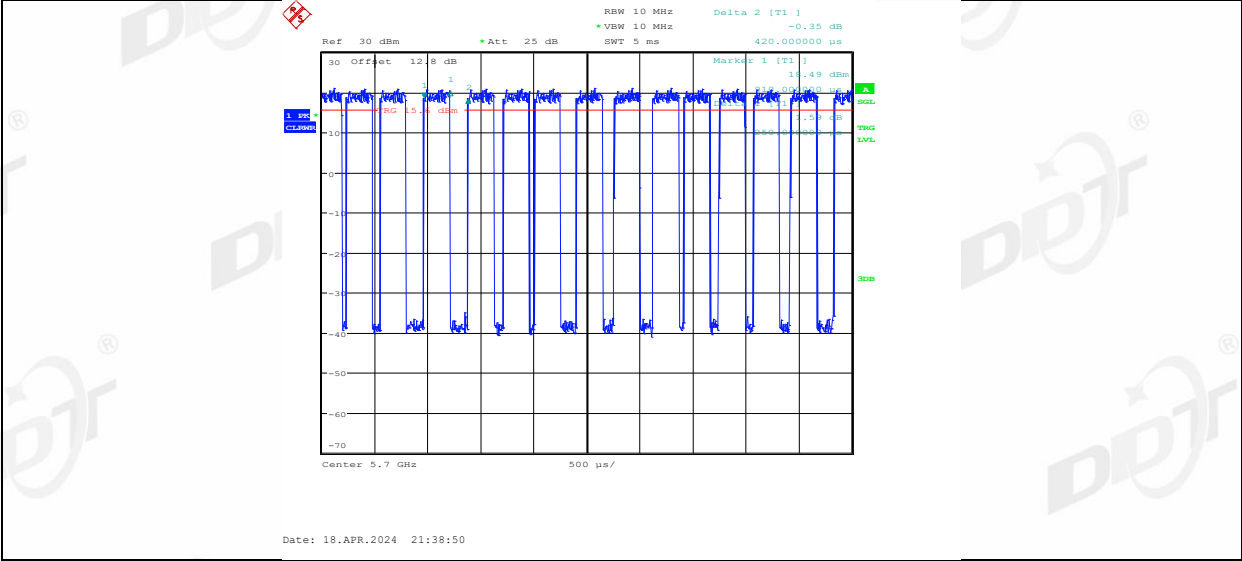
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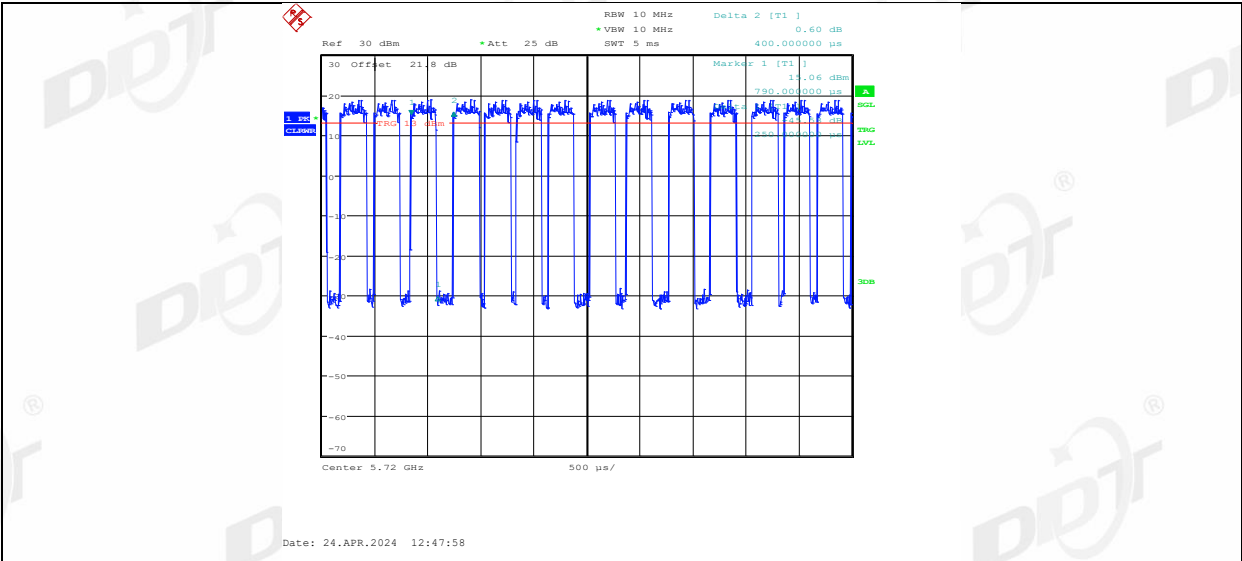
11A_Ant1_5580



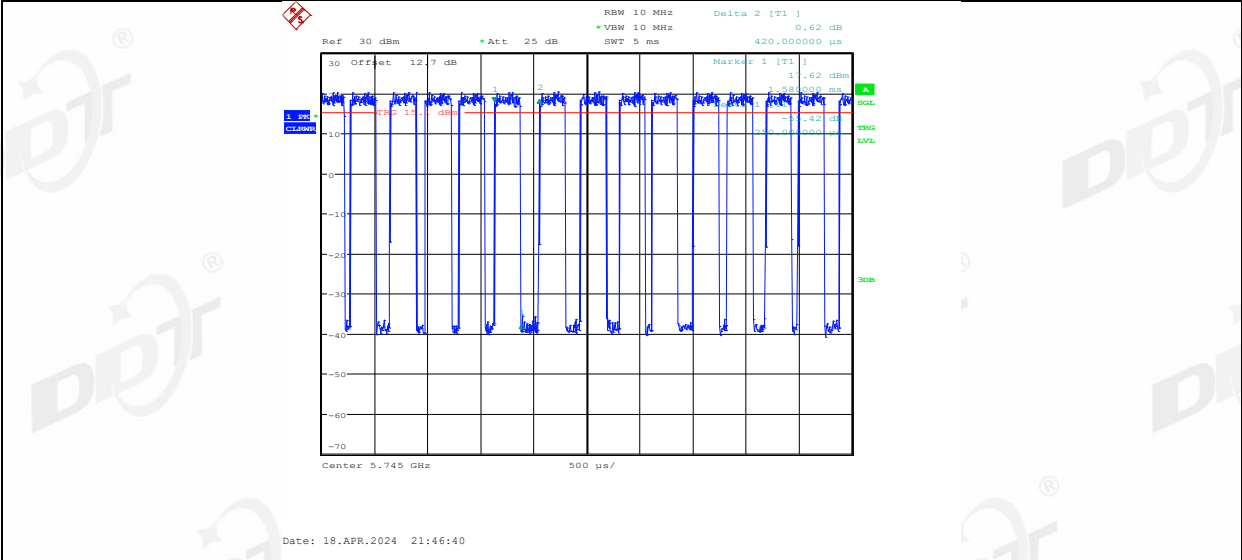
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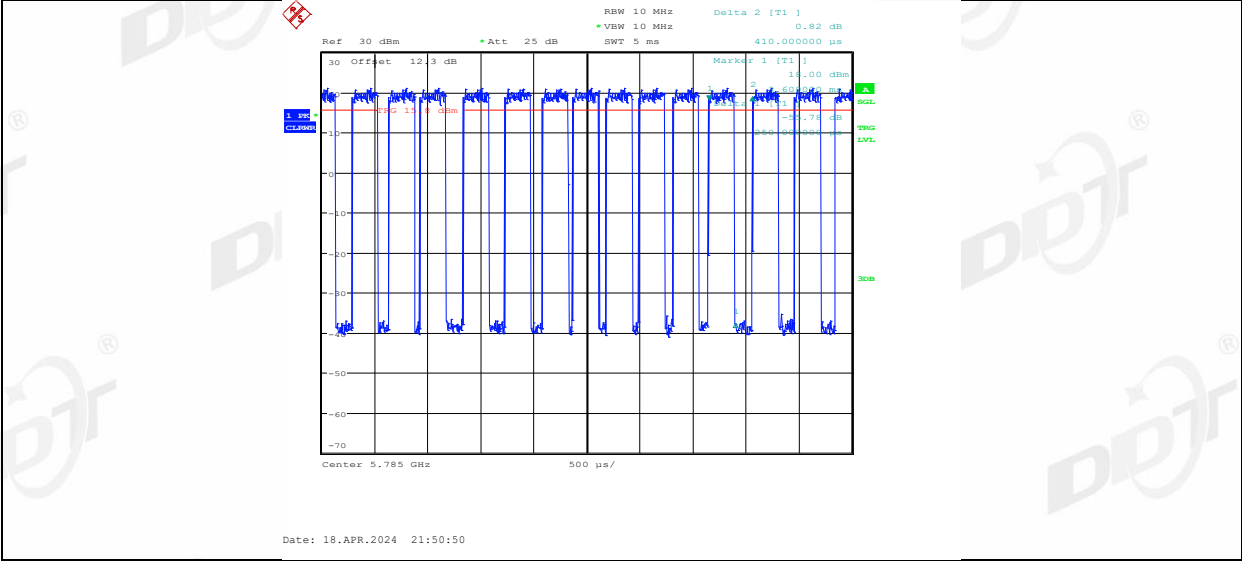
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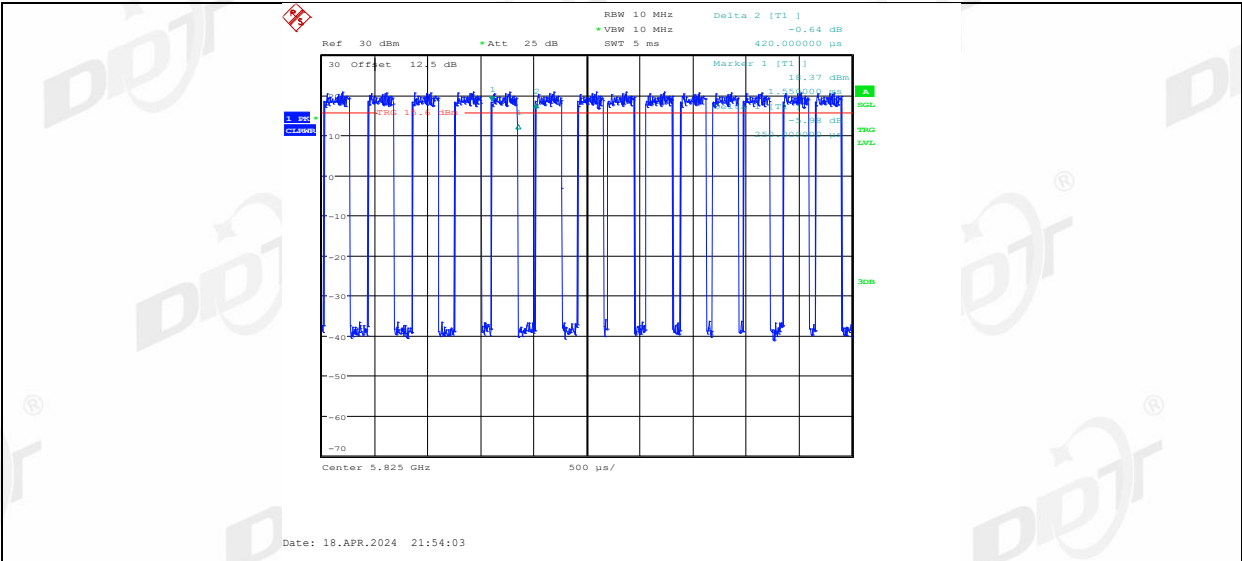
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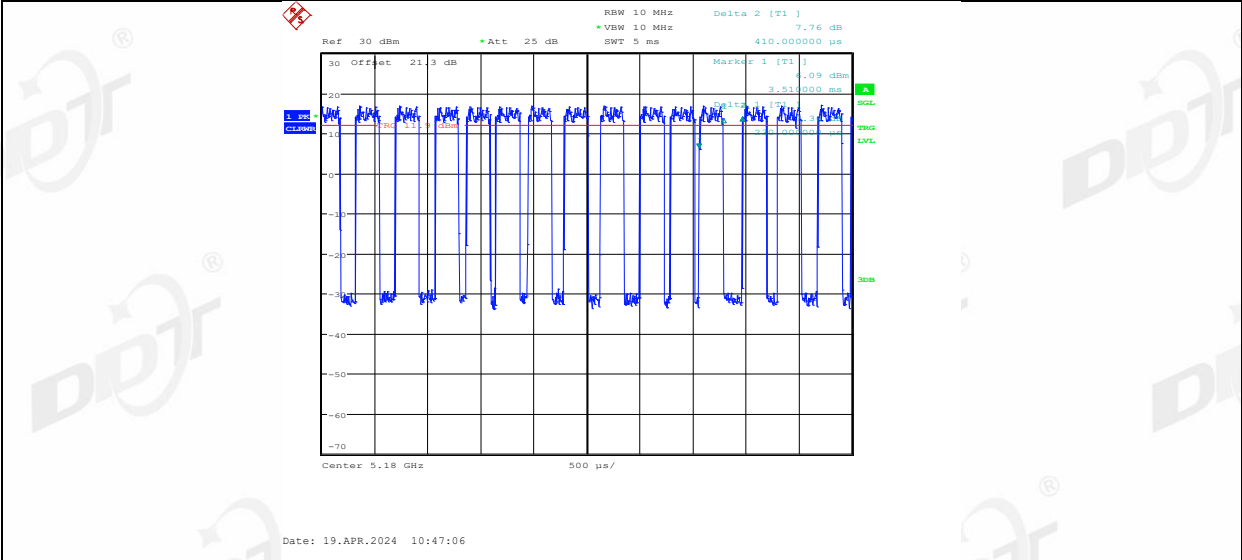
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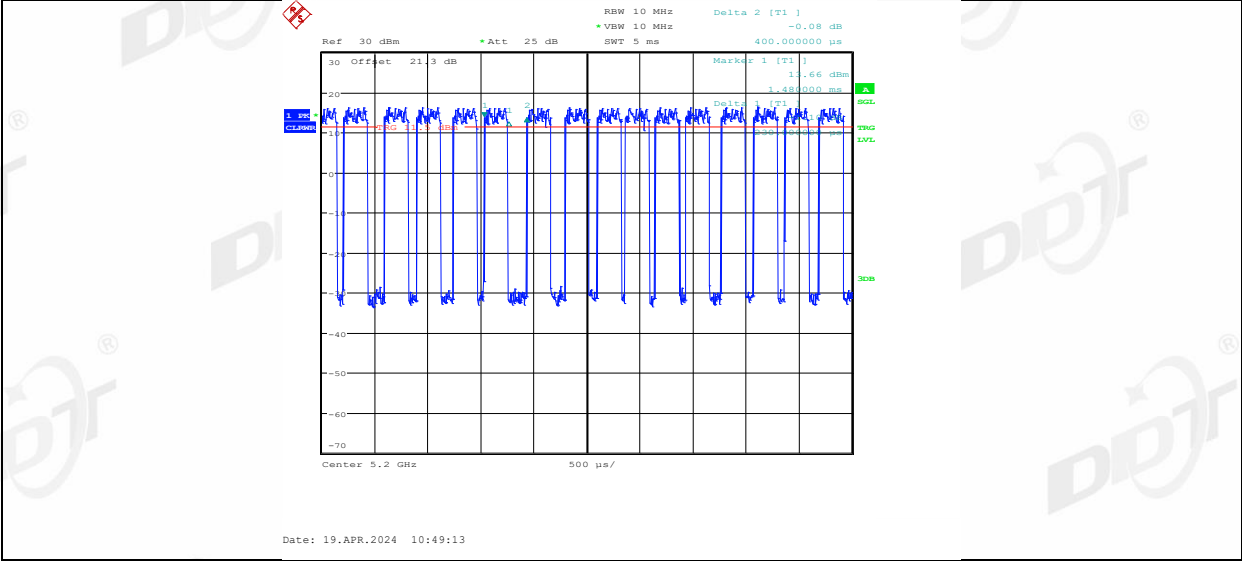
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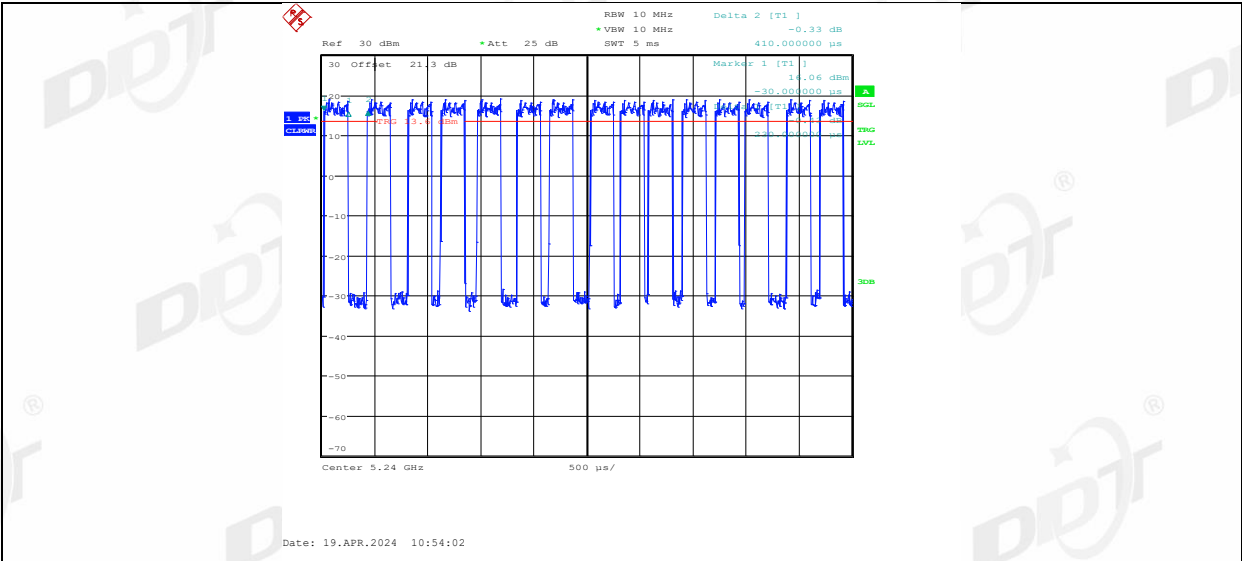
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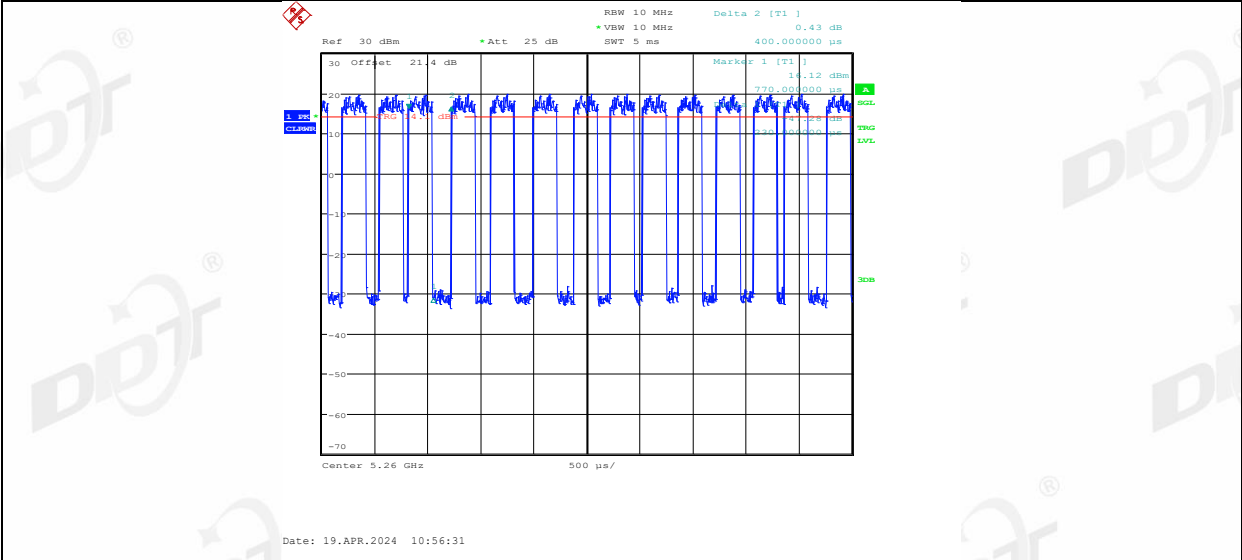
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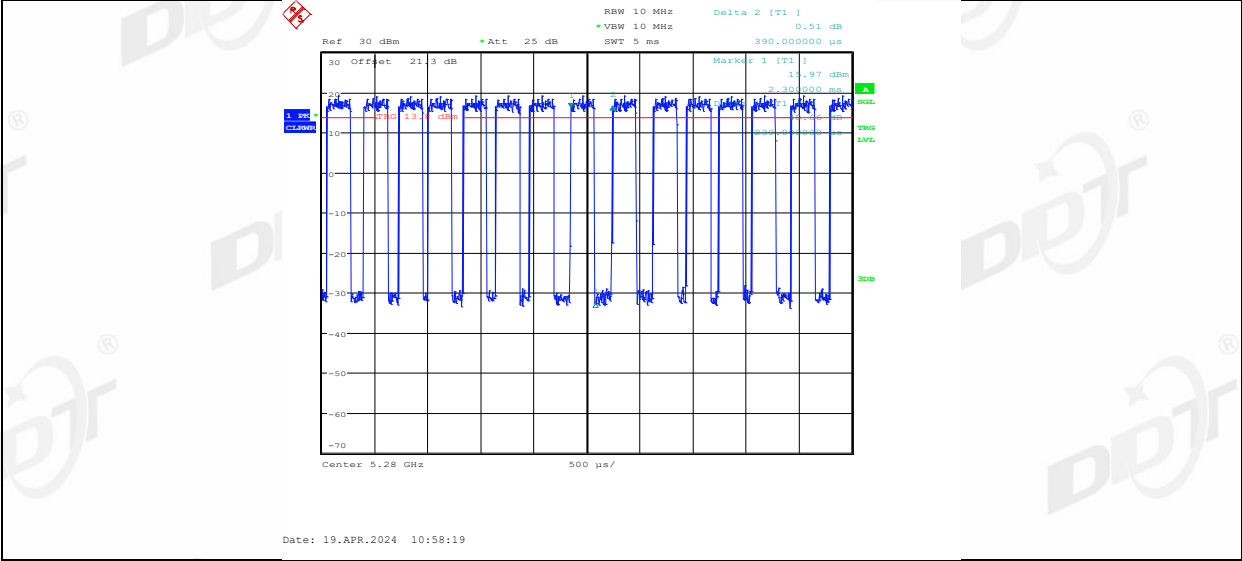
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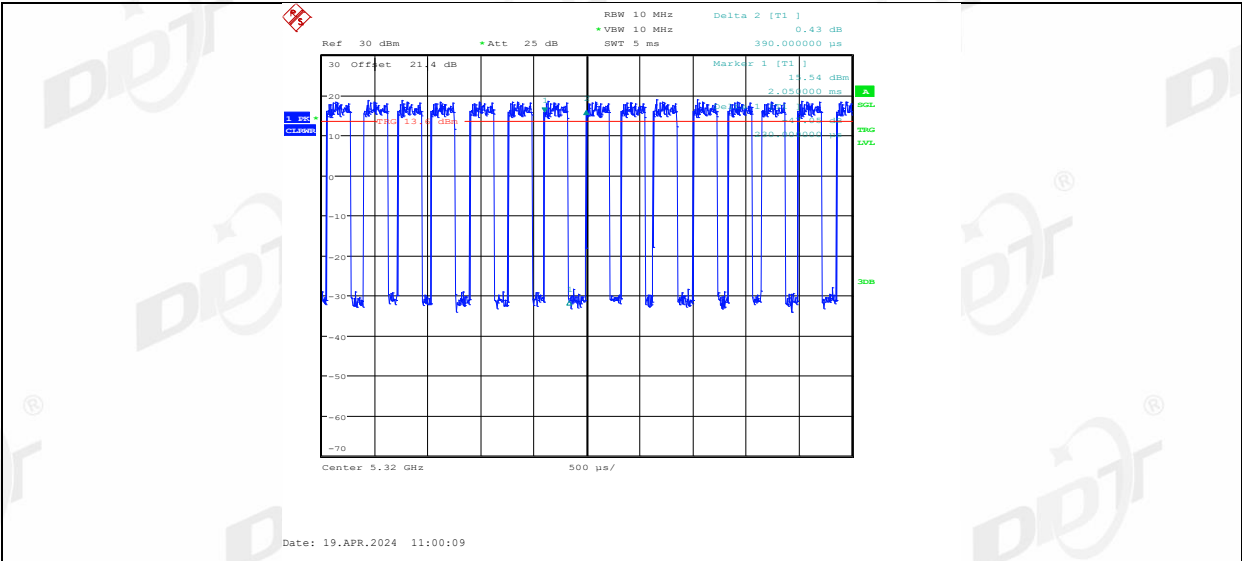
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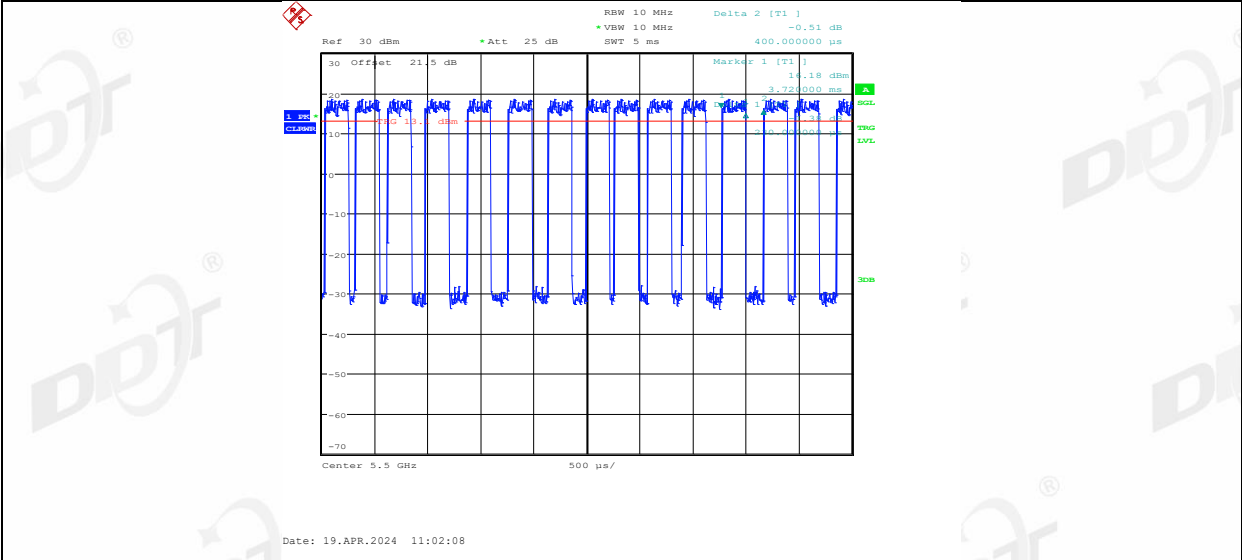
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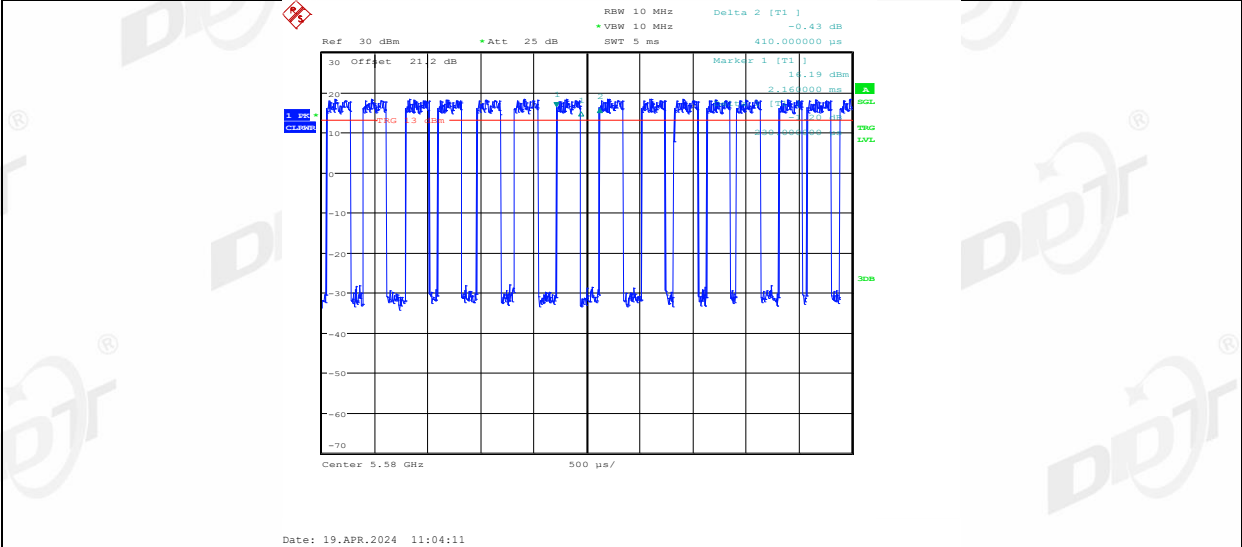
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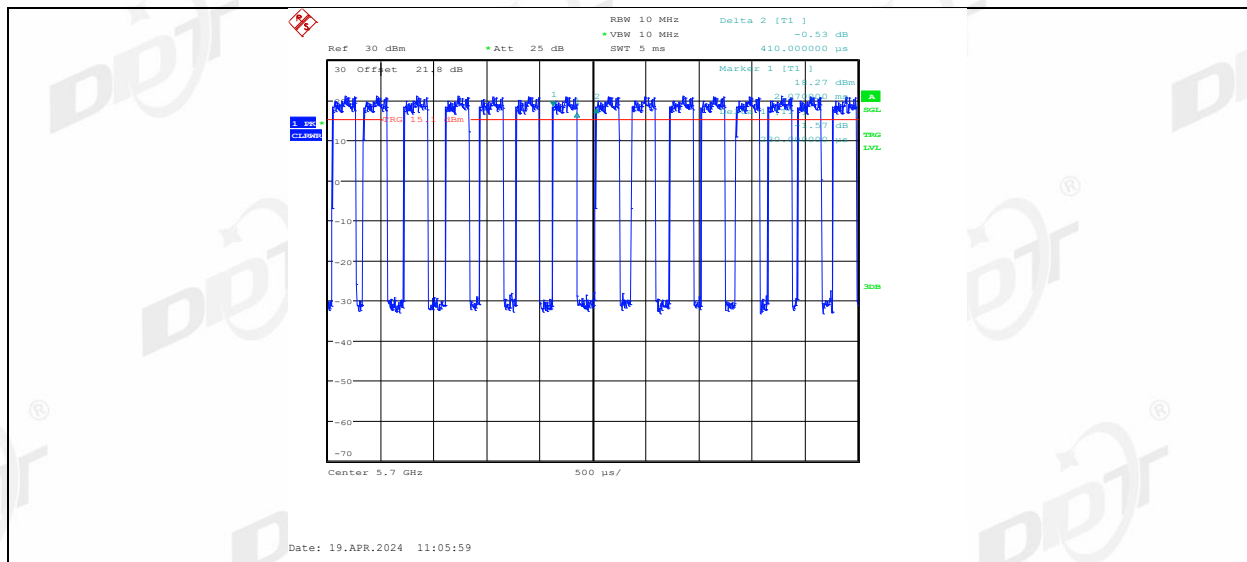
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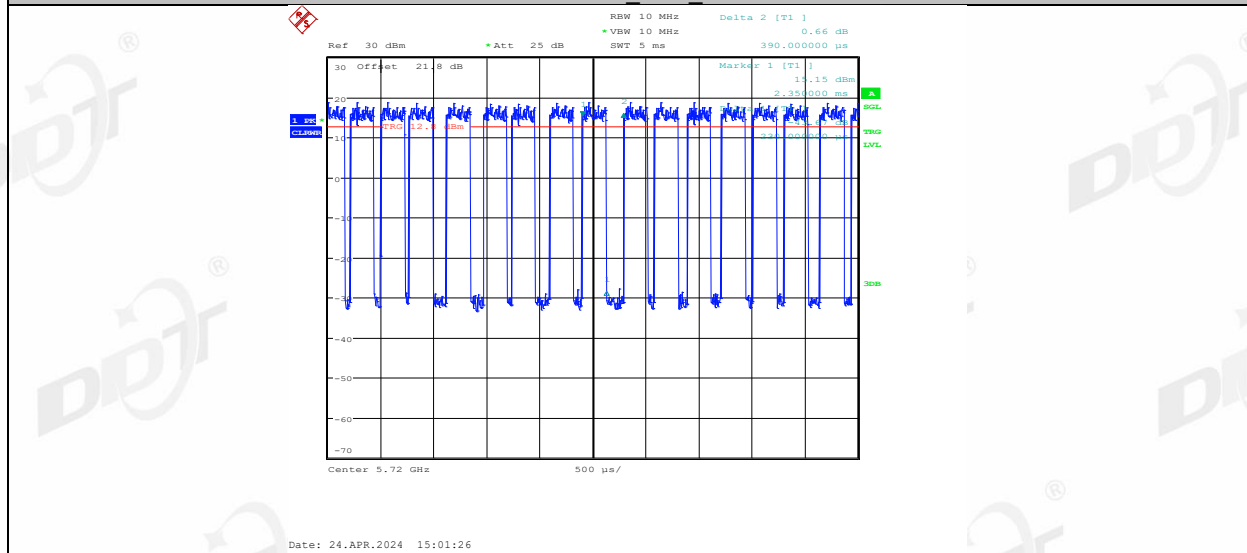
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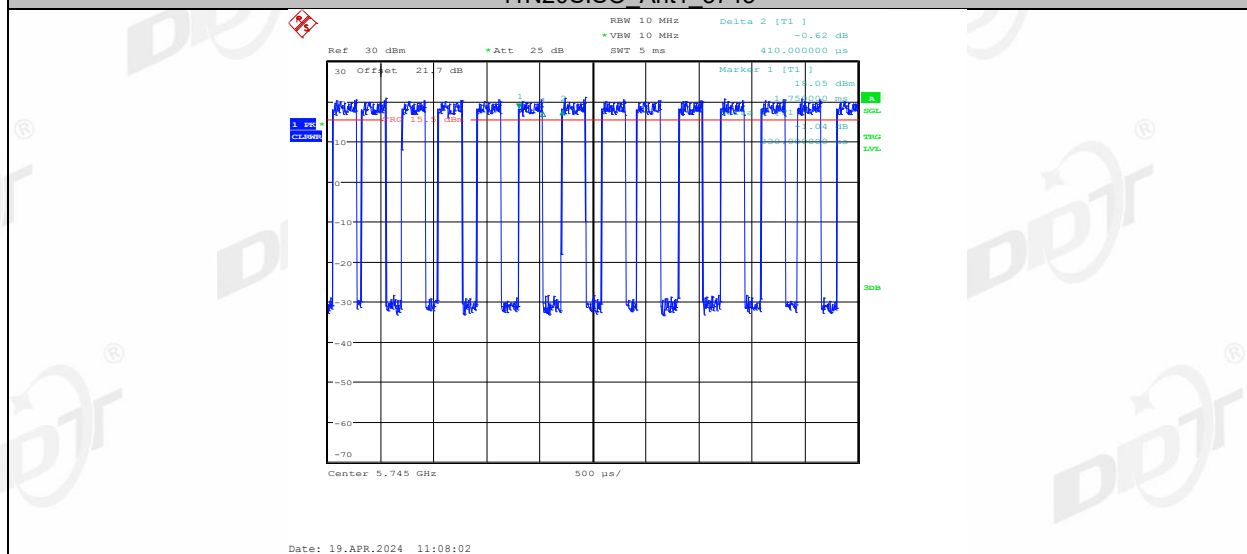
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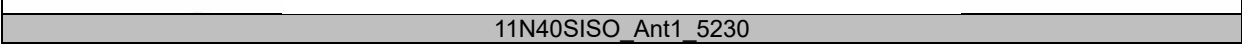
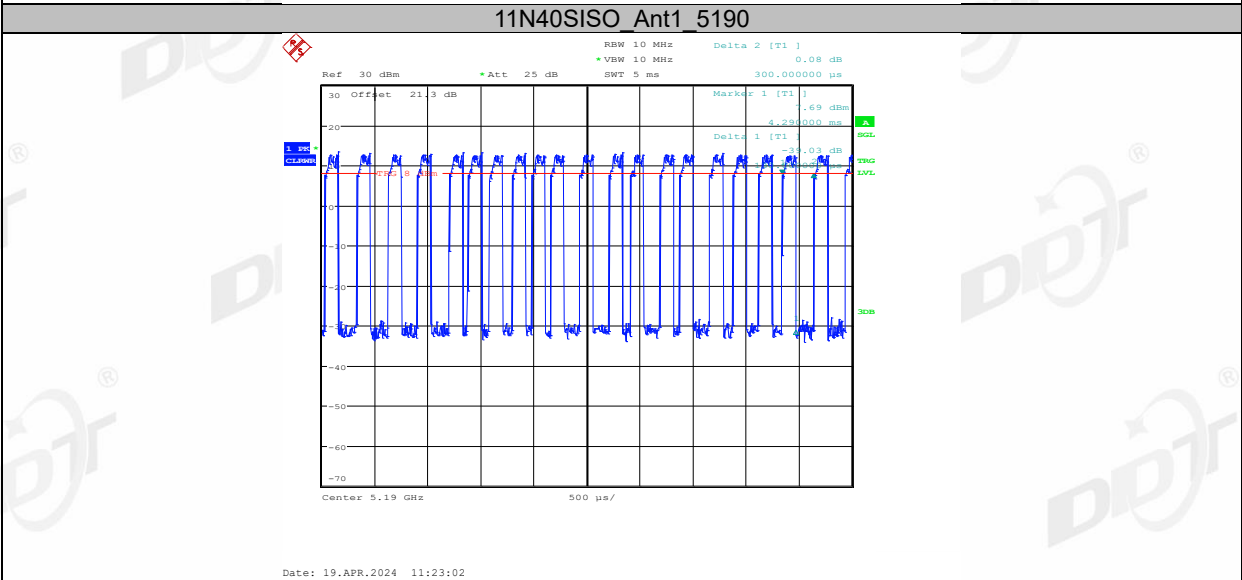
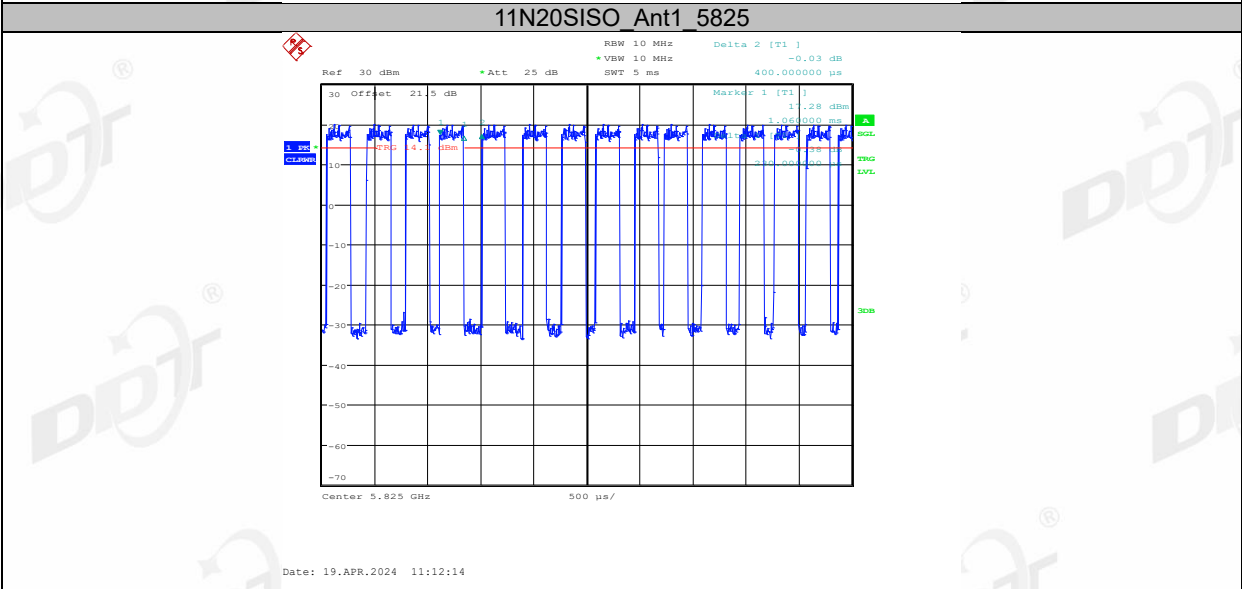
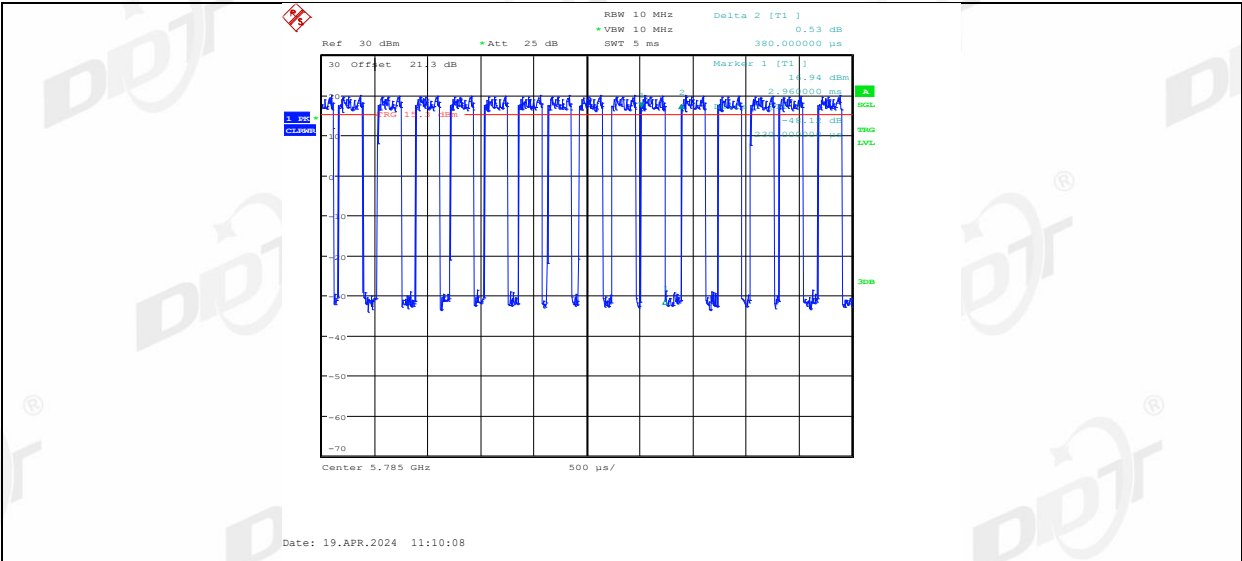
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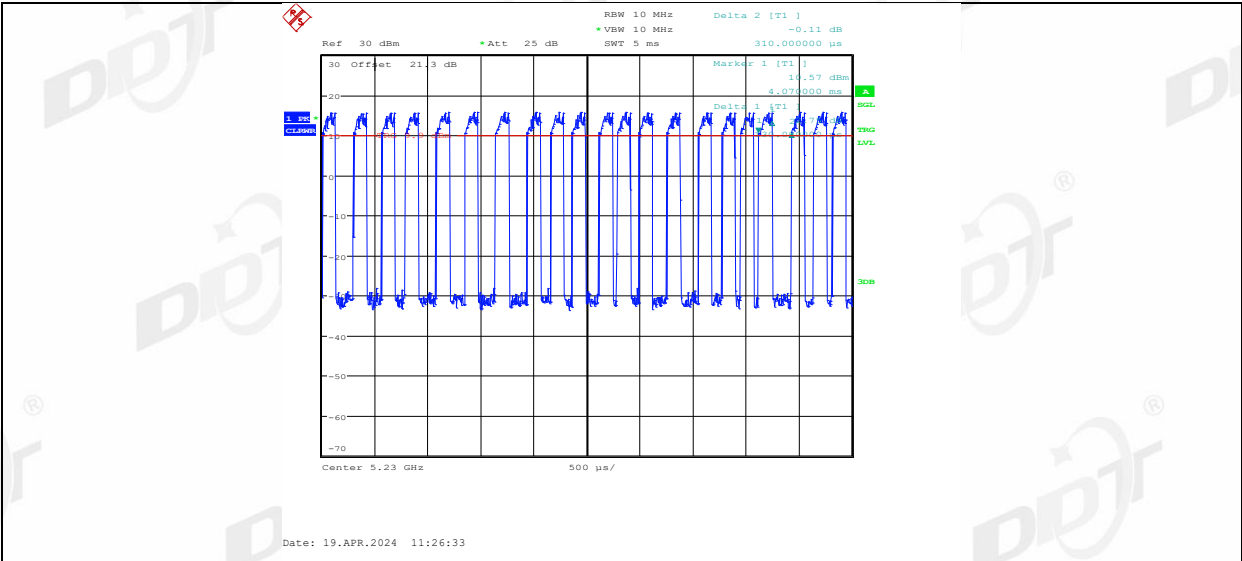


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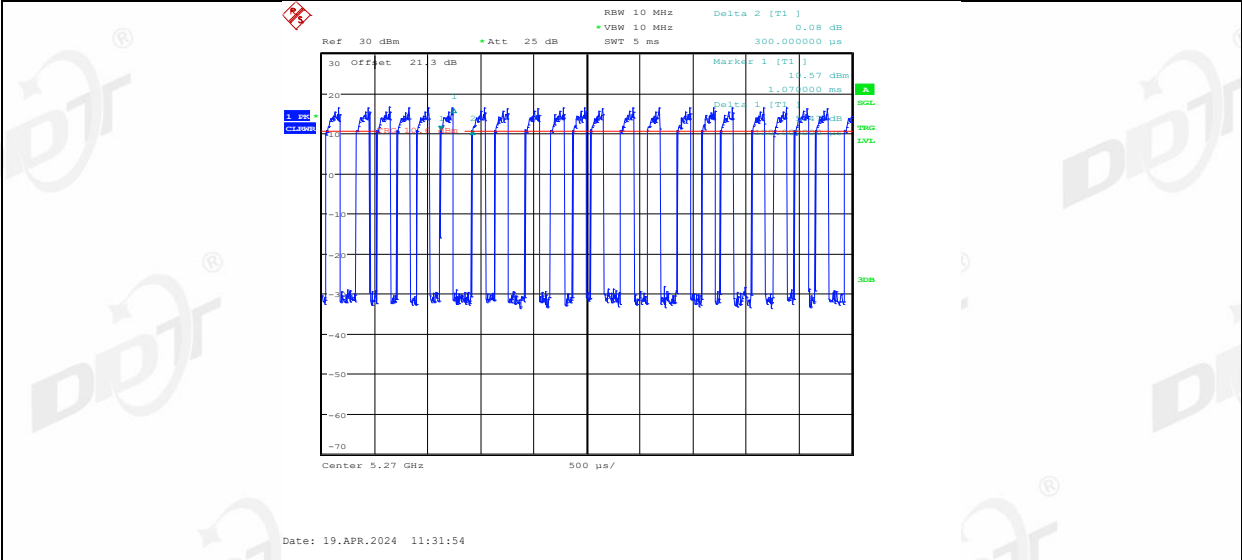


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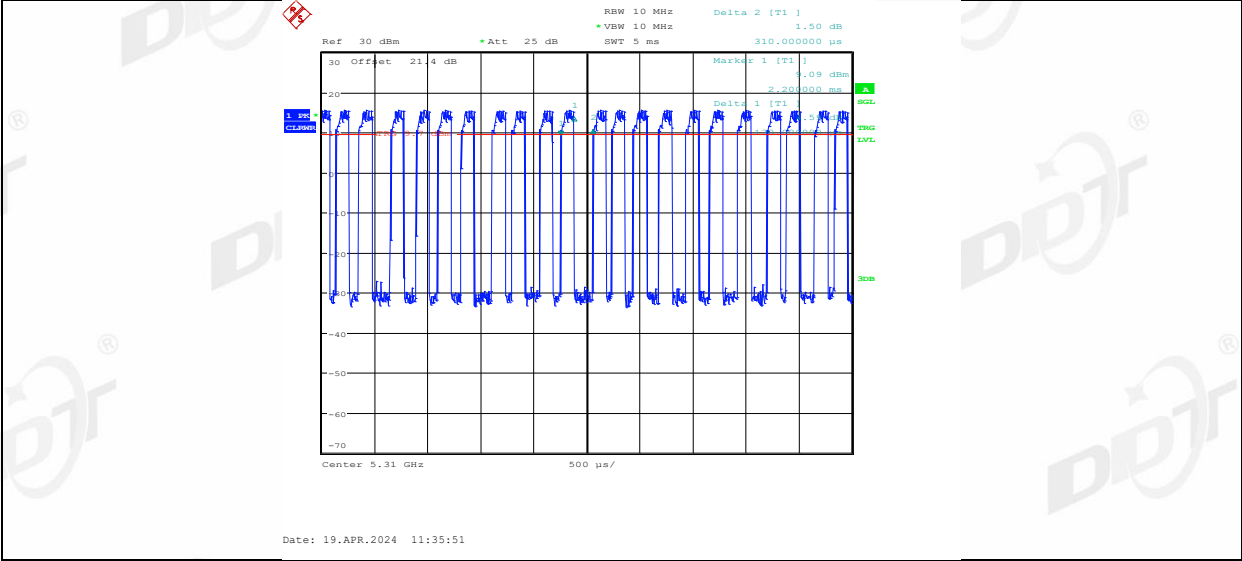




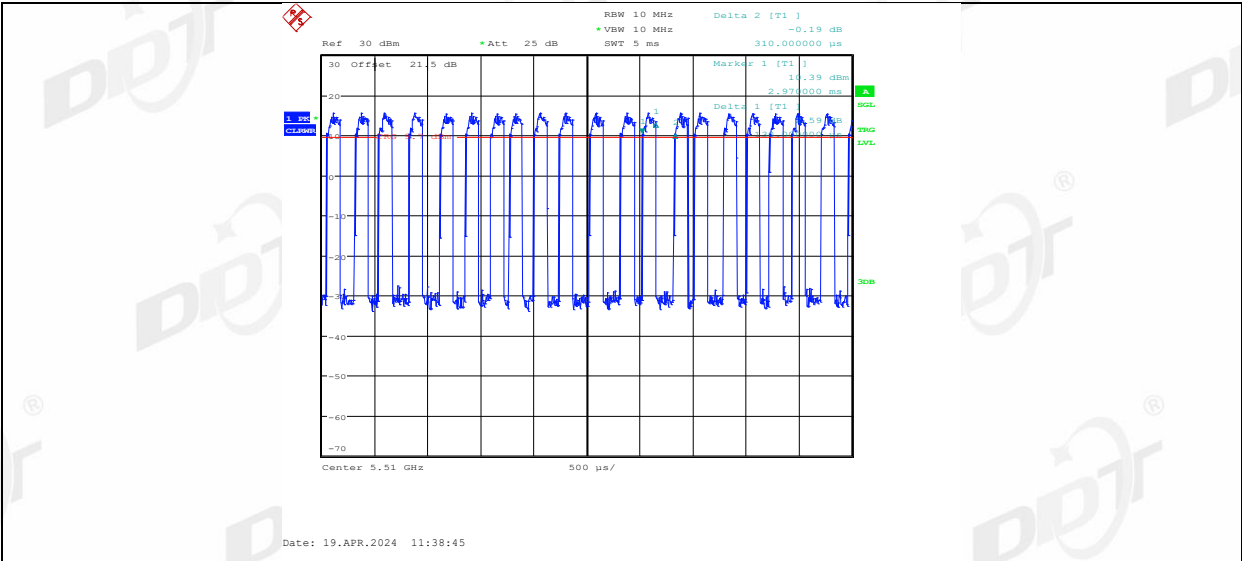
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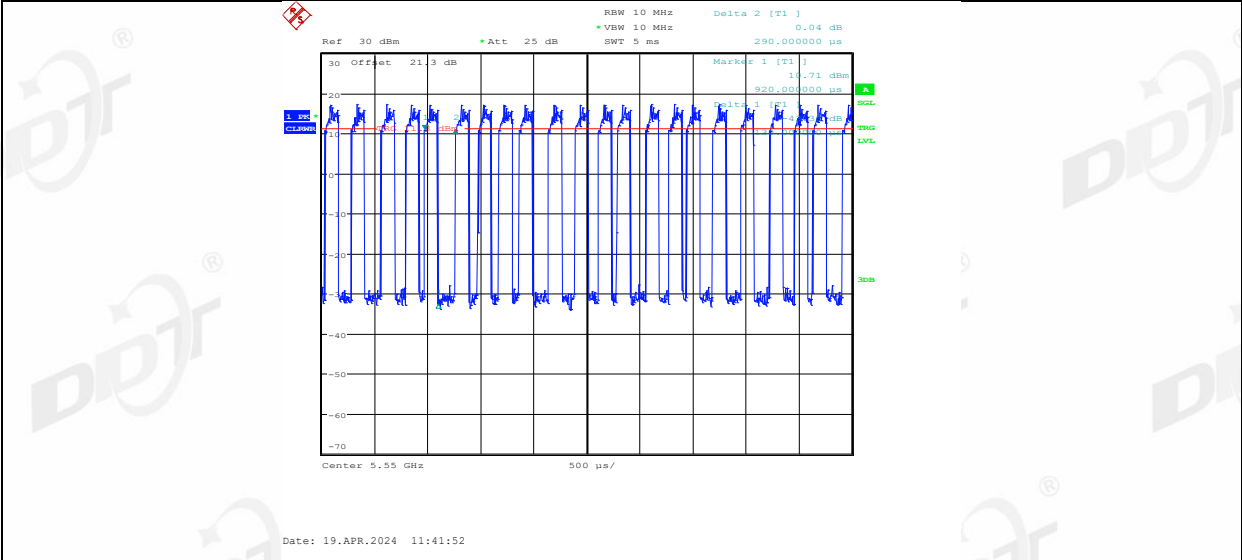
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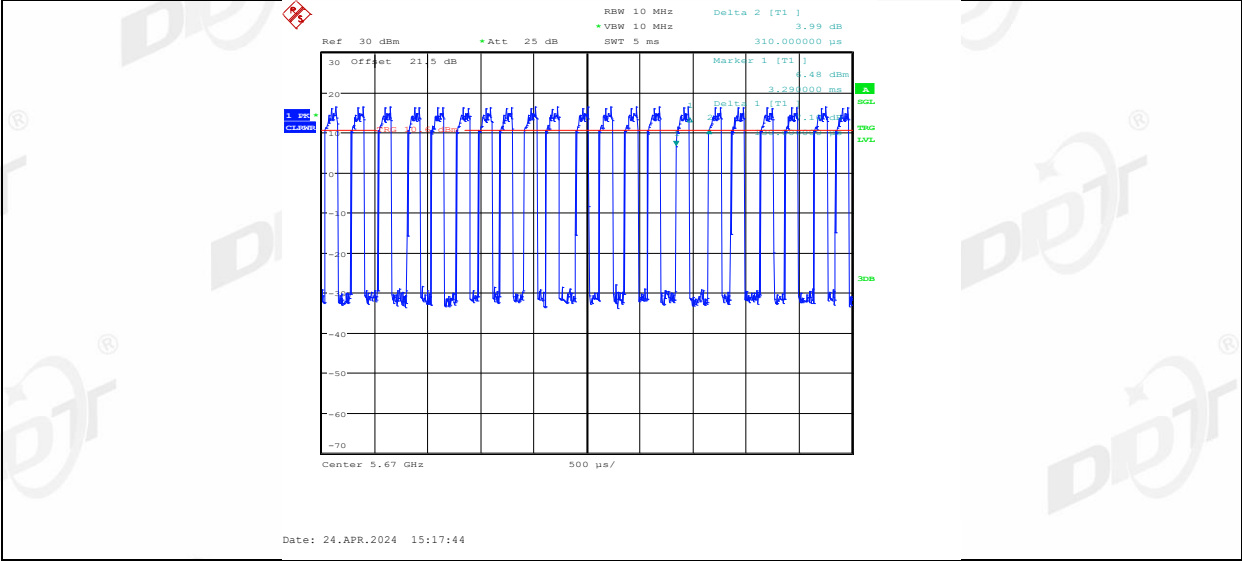
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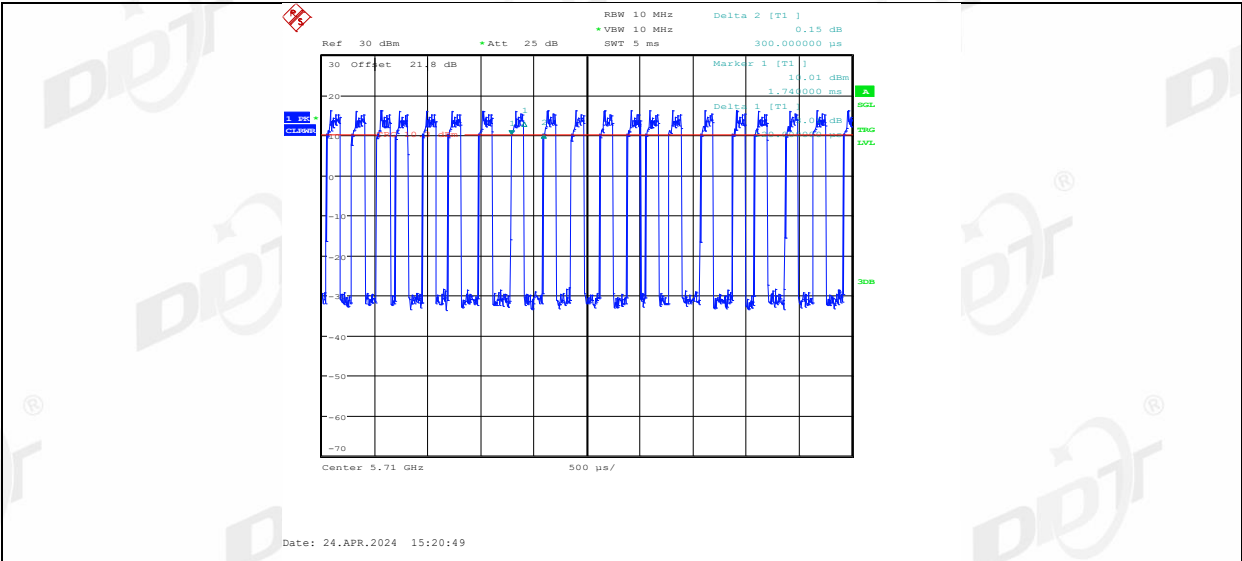
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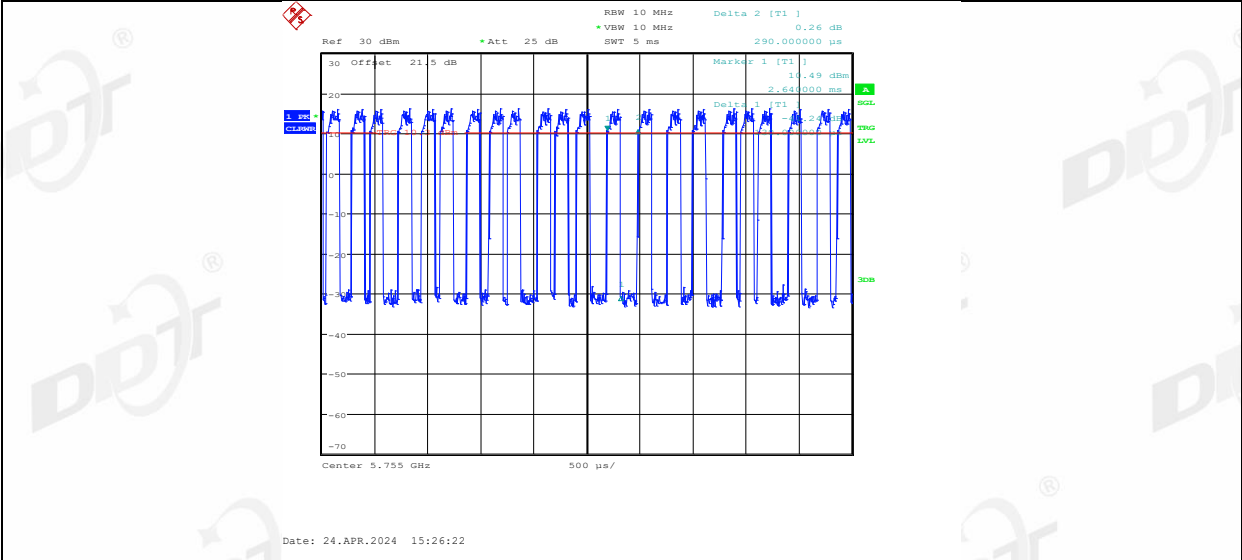
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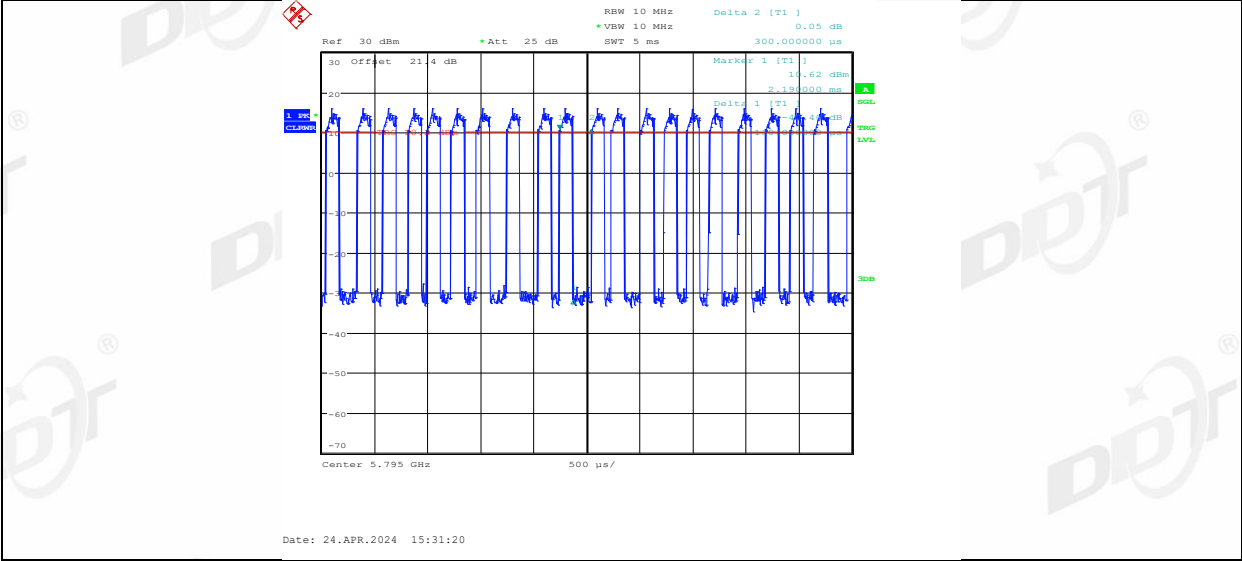
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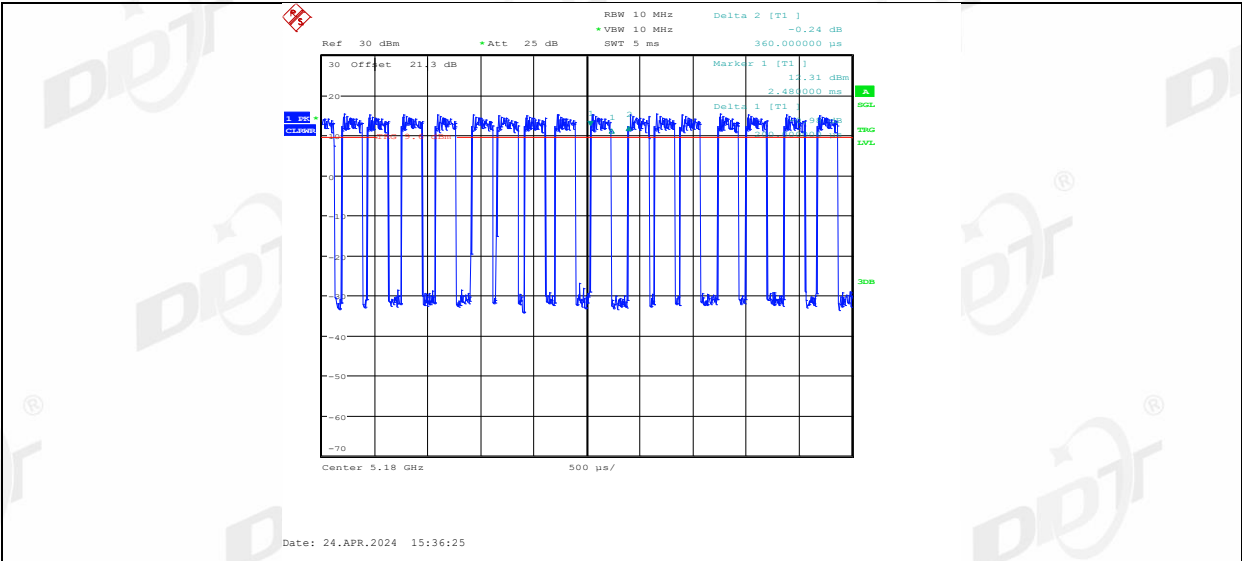
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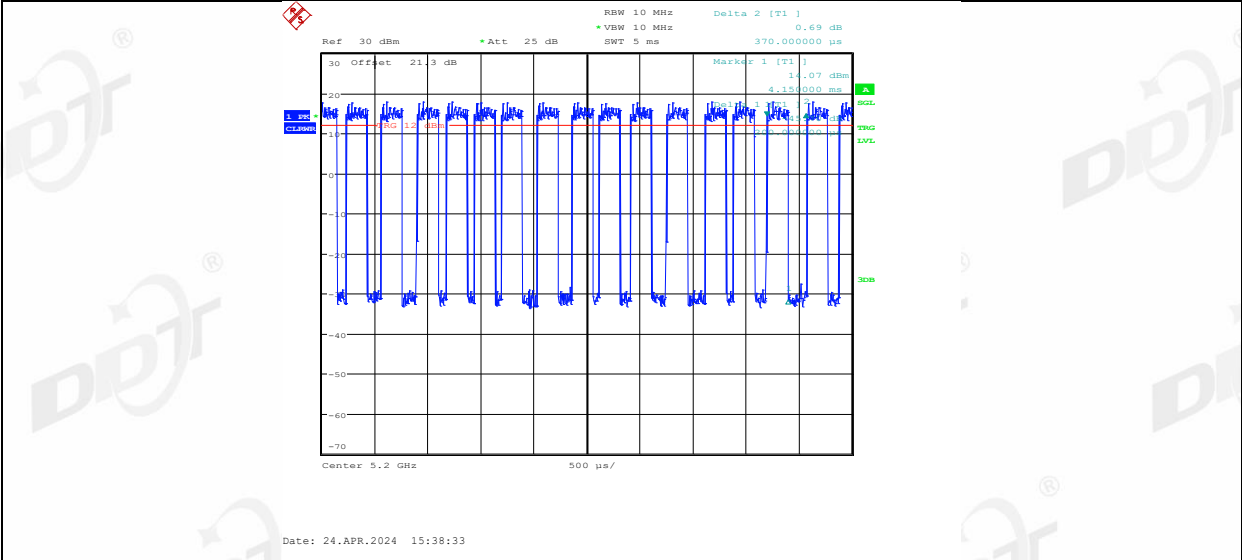
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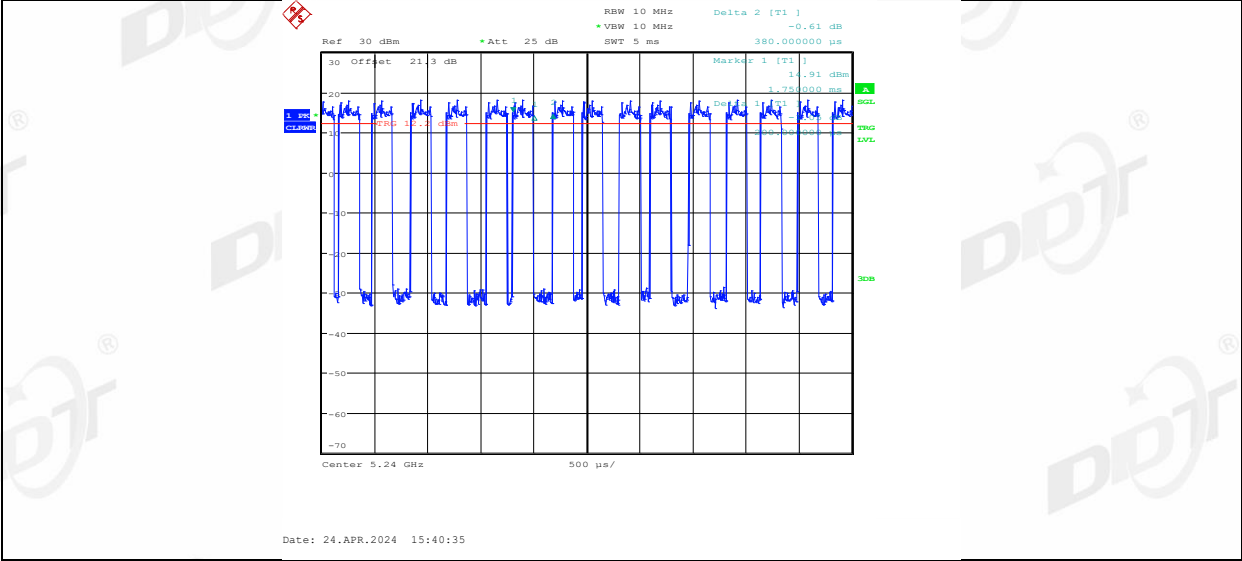
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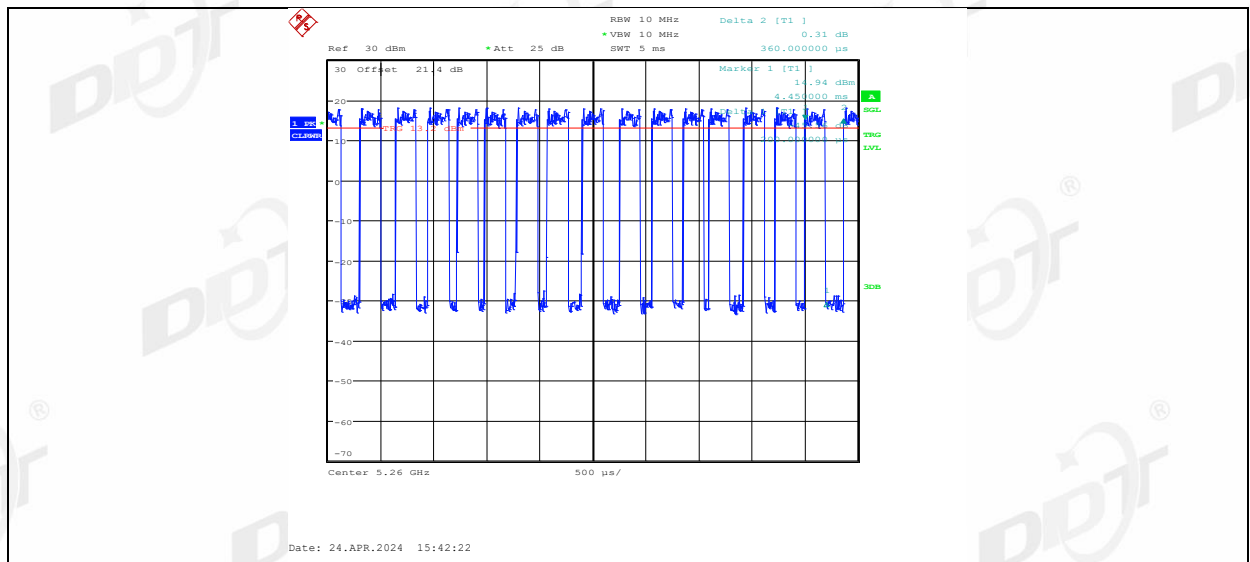
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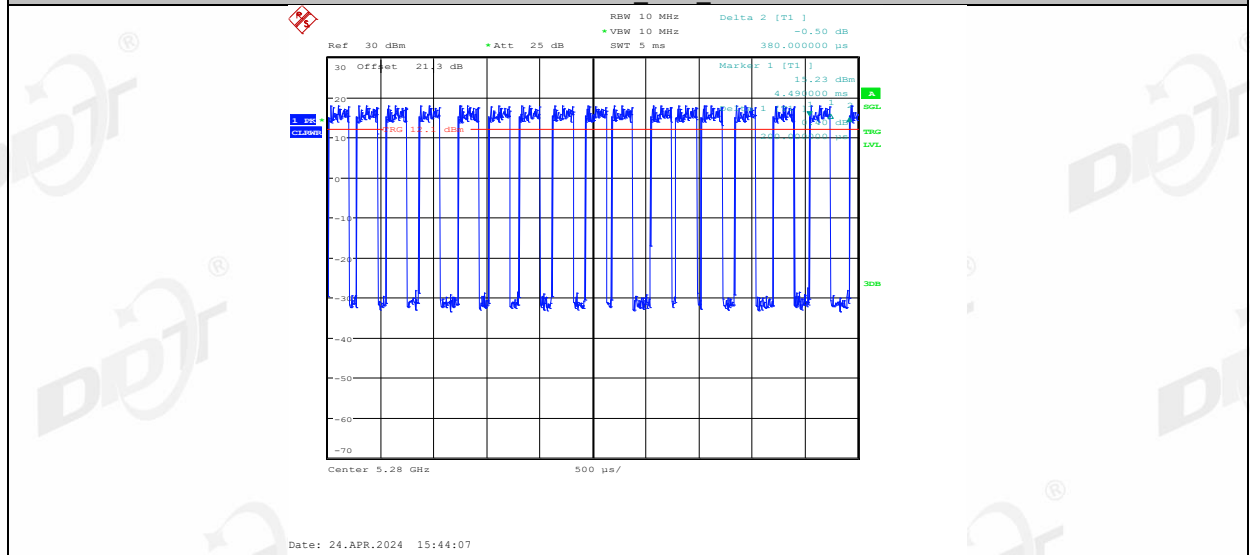
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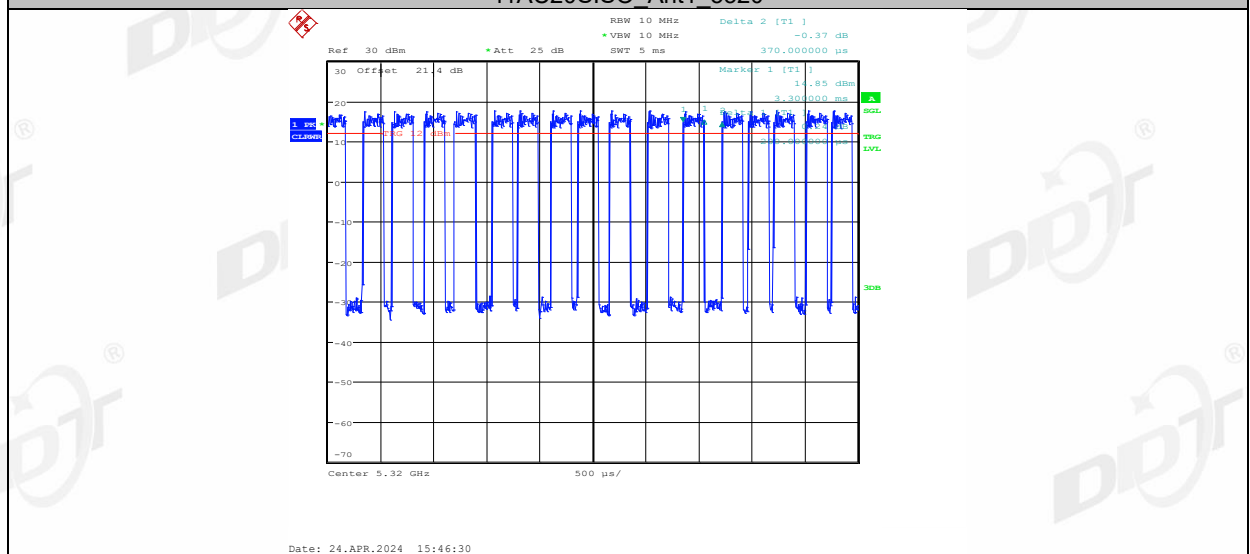
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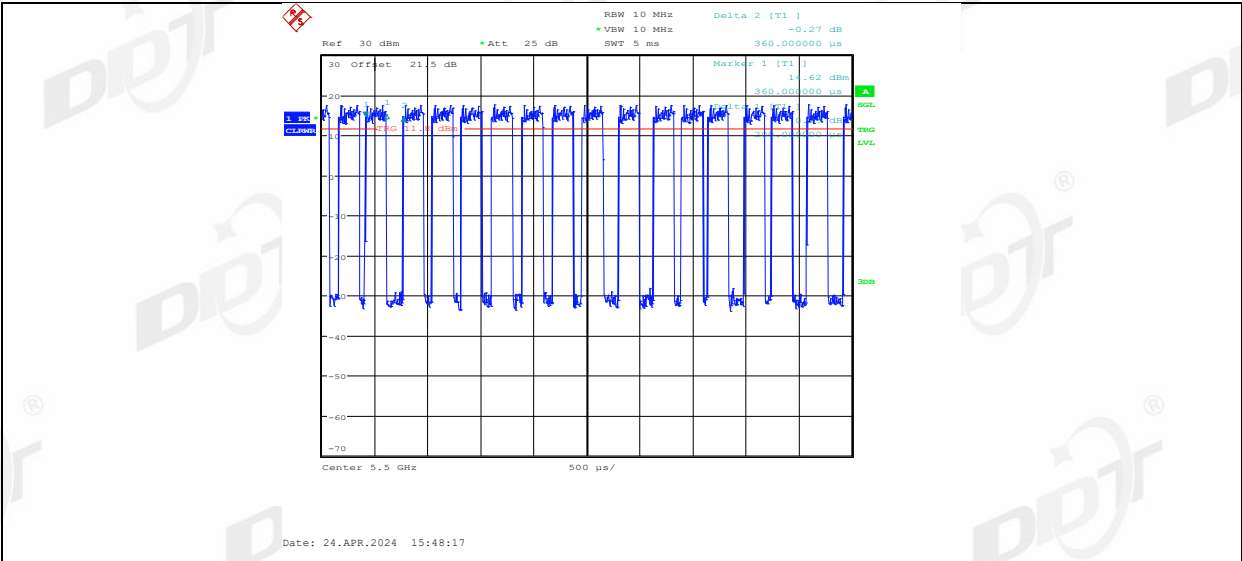
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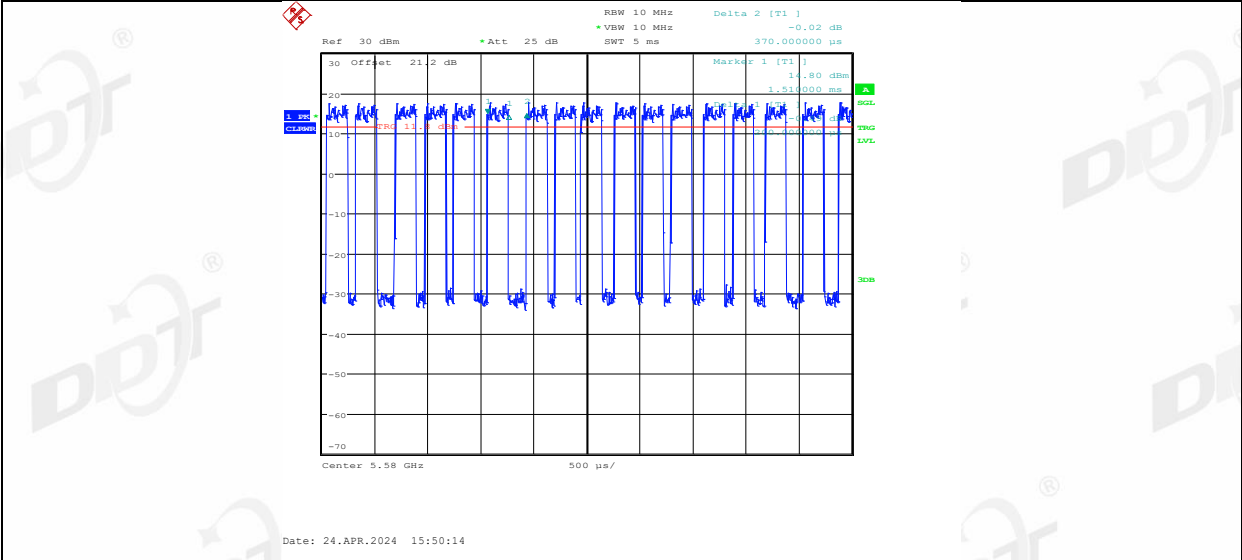
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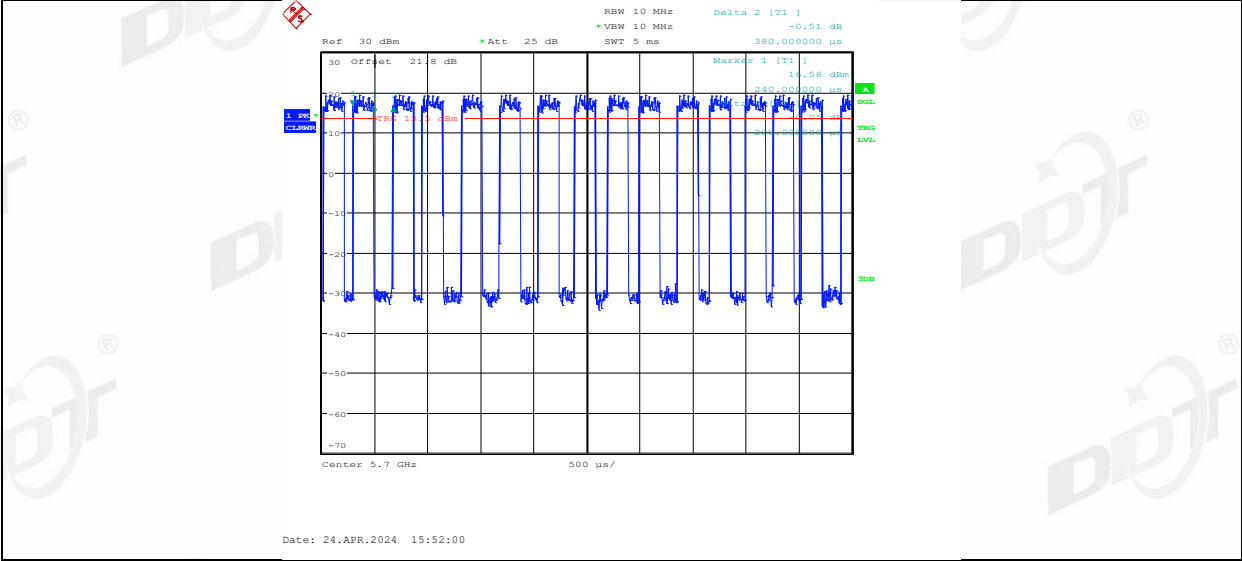
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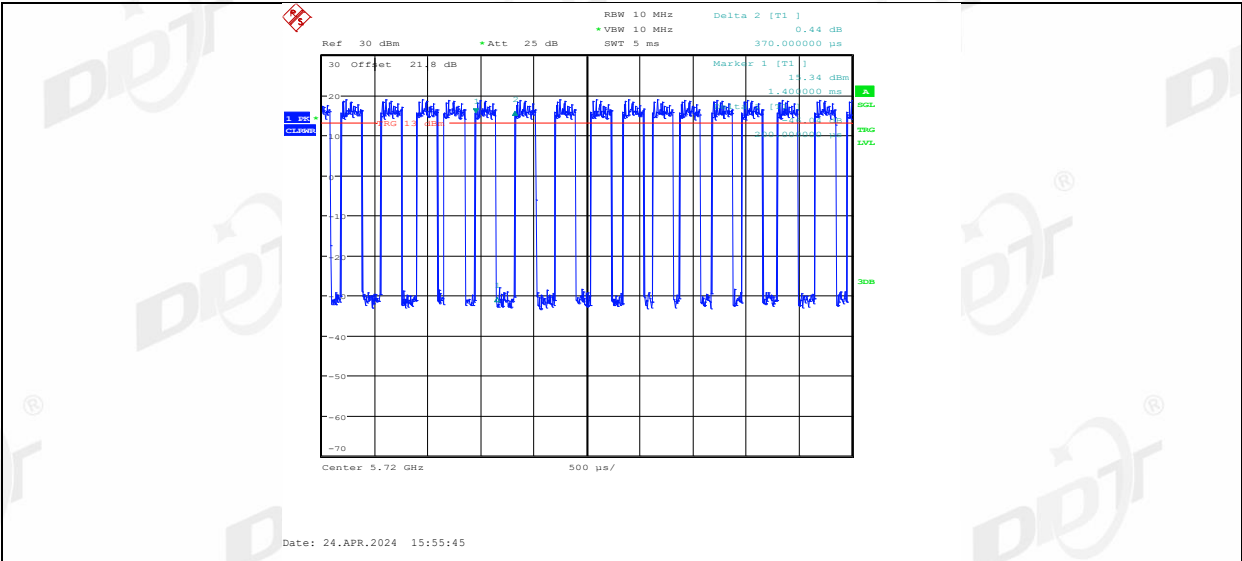
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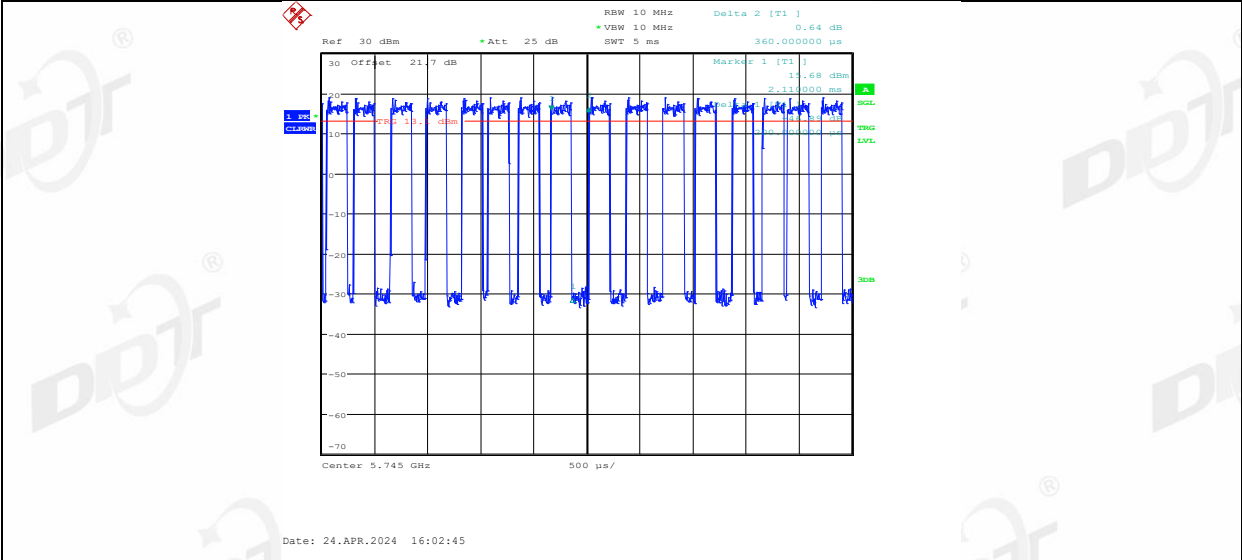
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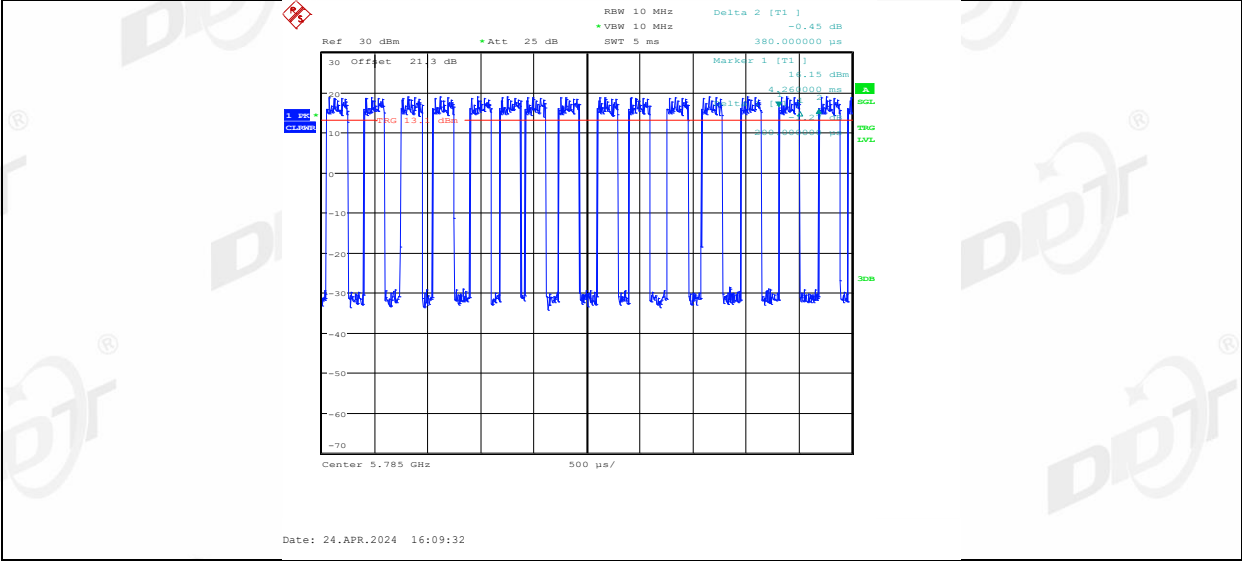
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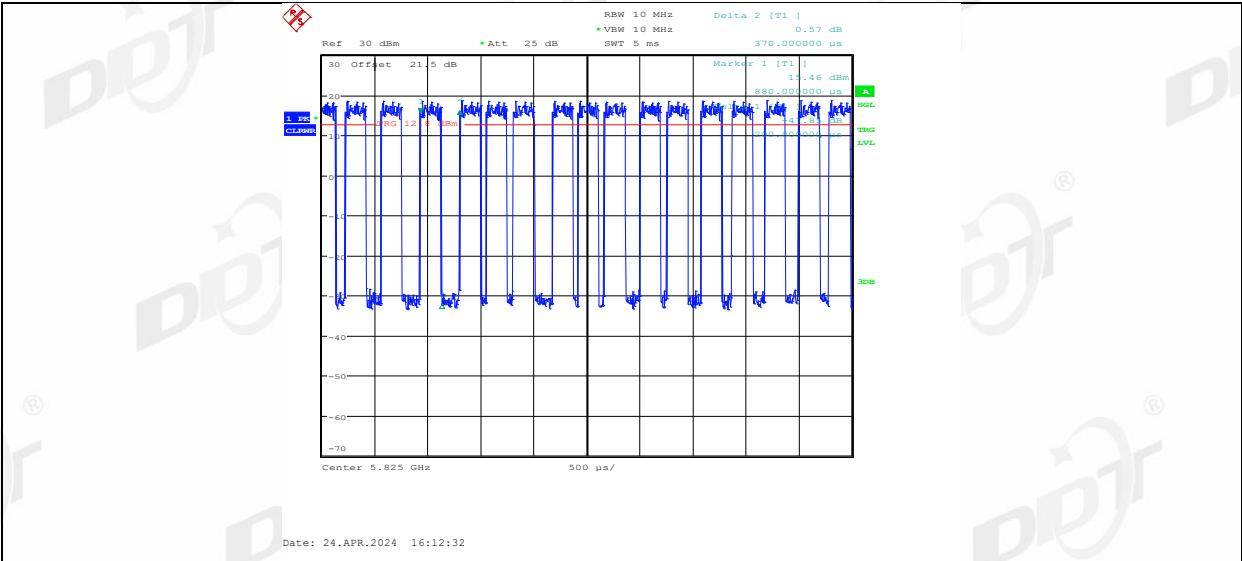
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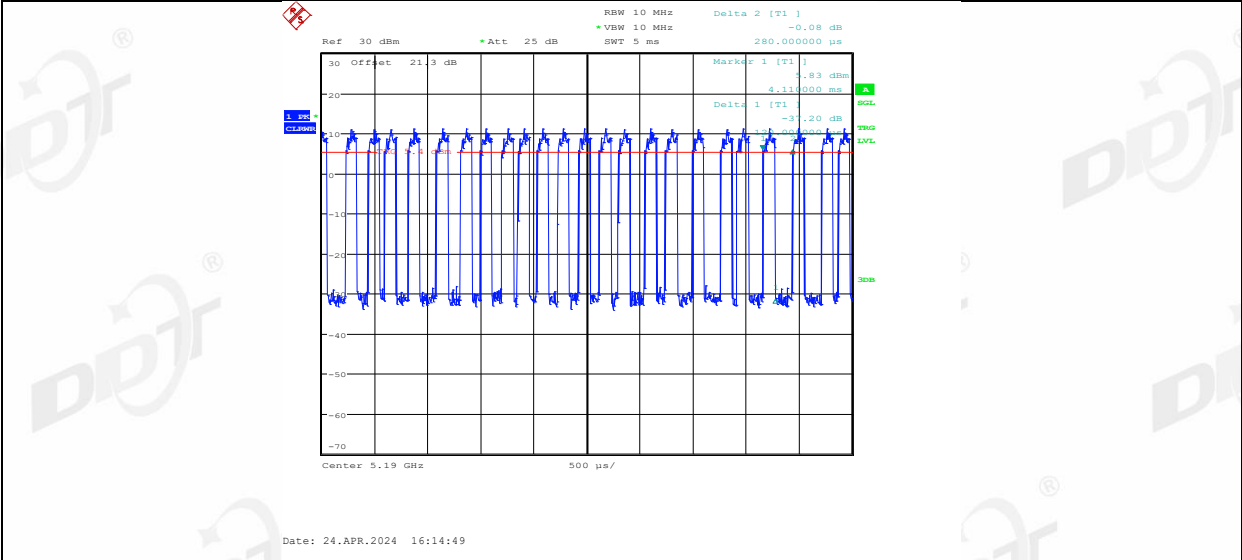
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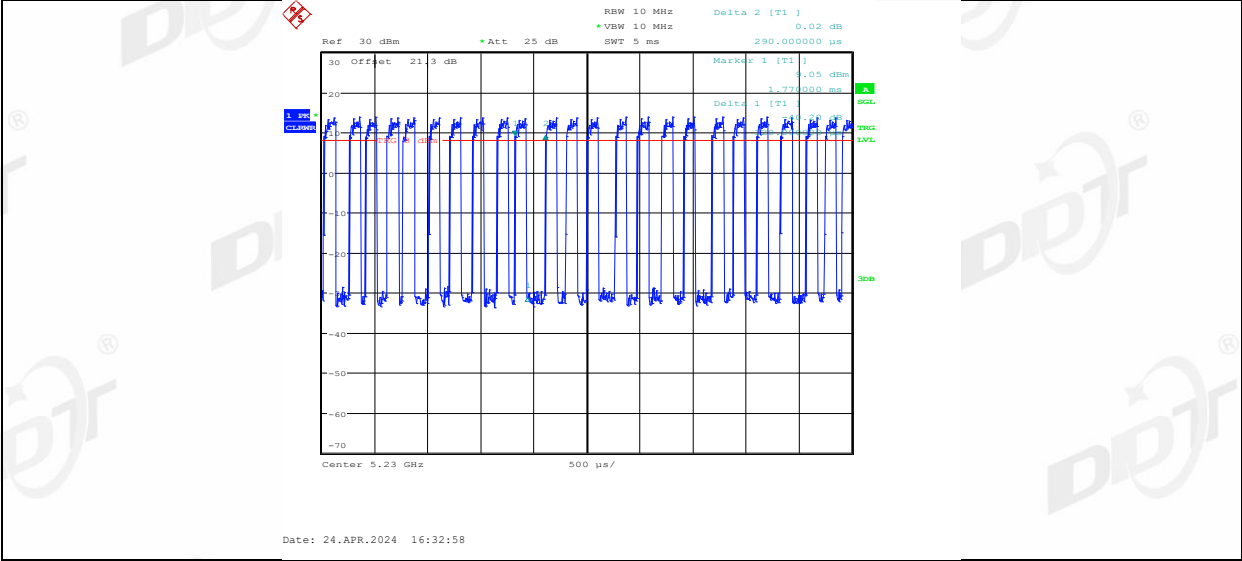
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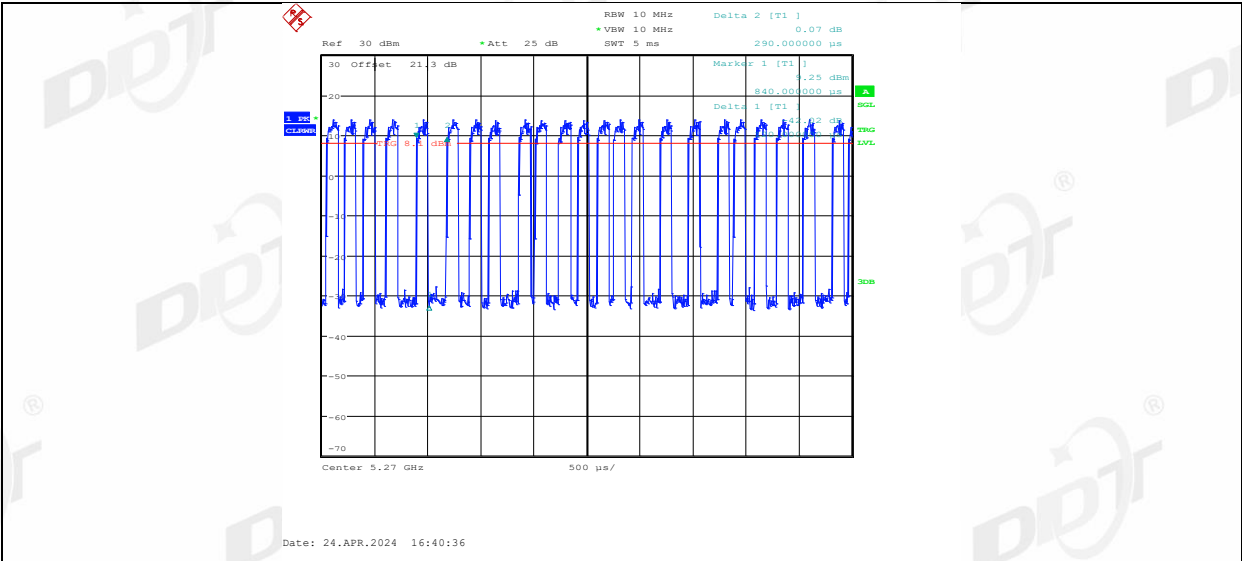
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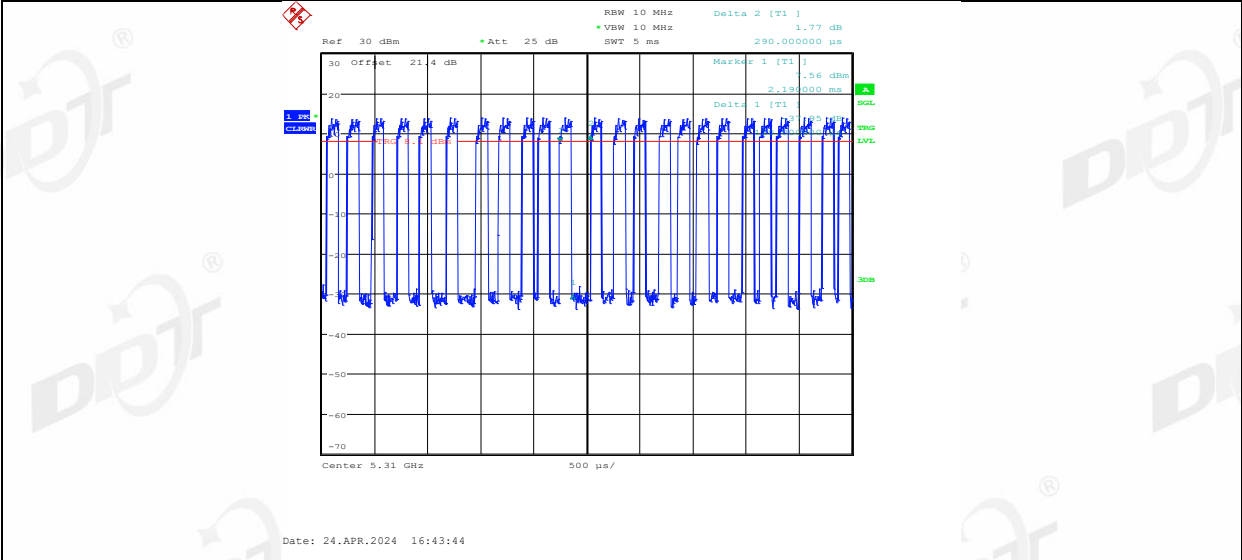
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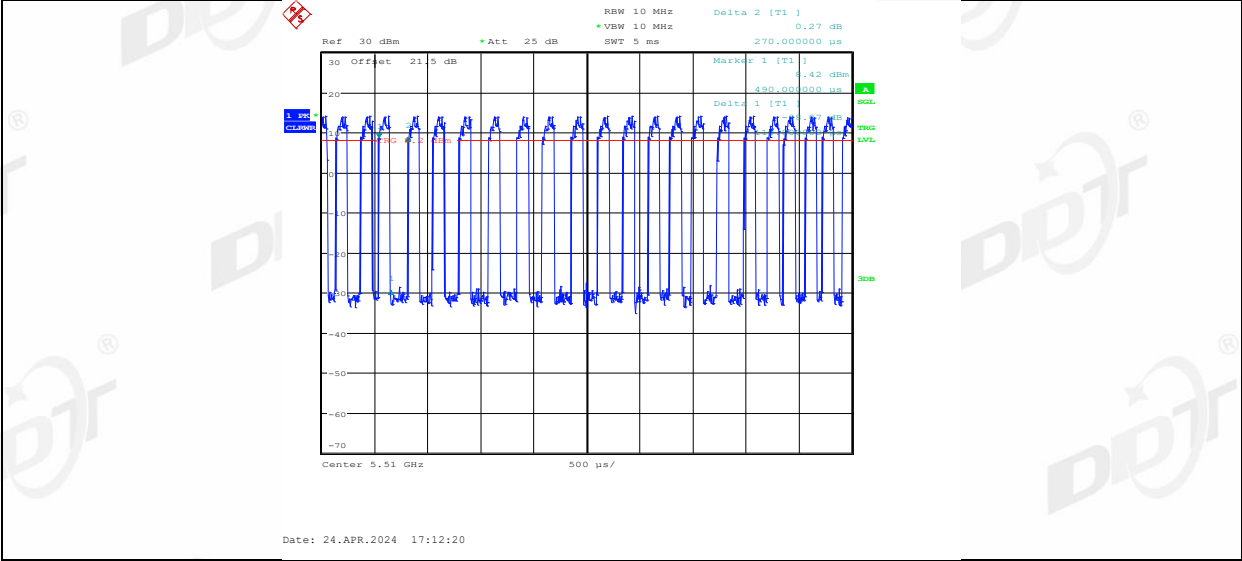
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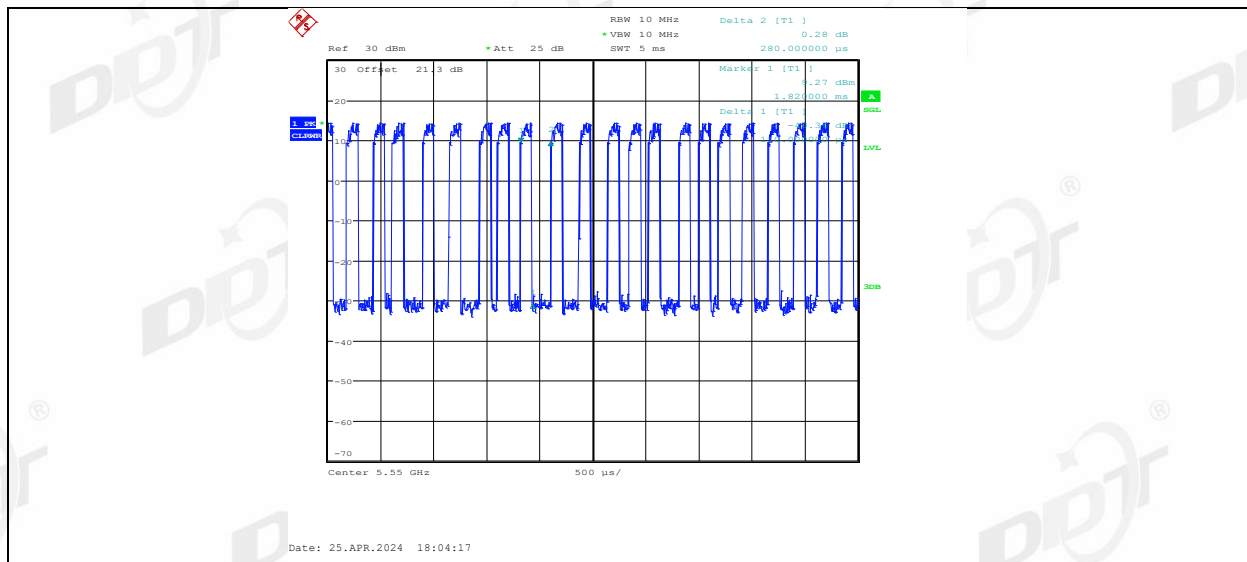
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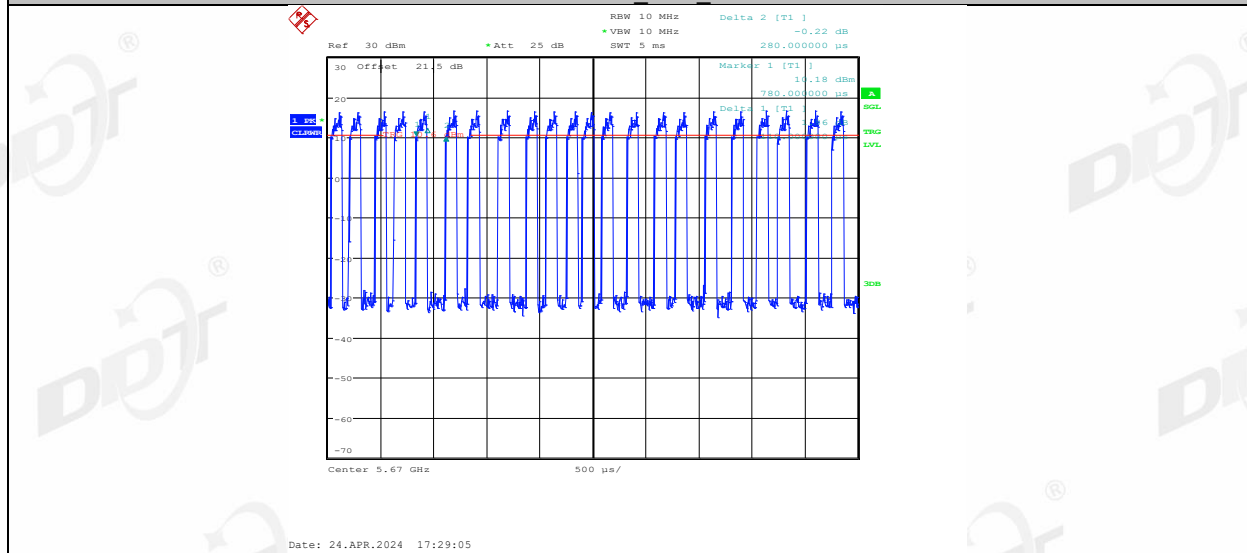
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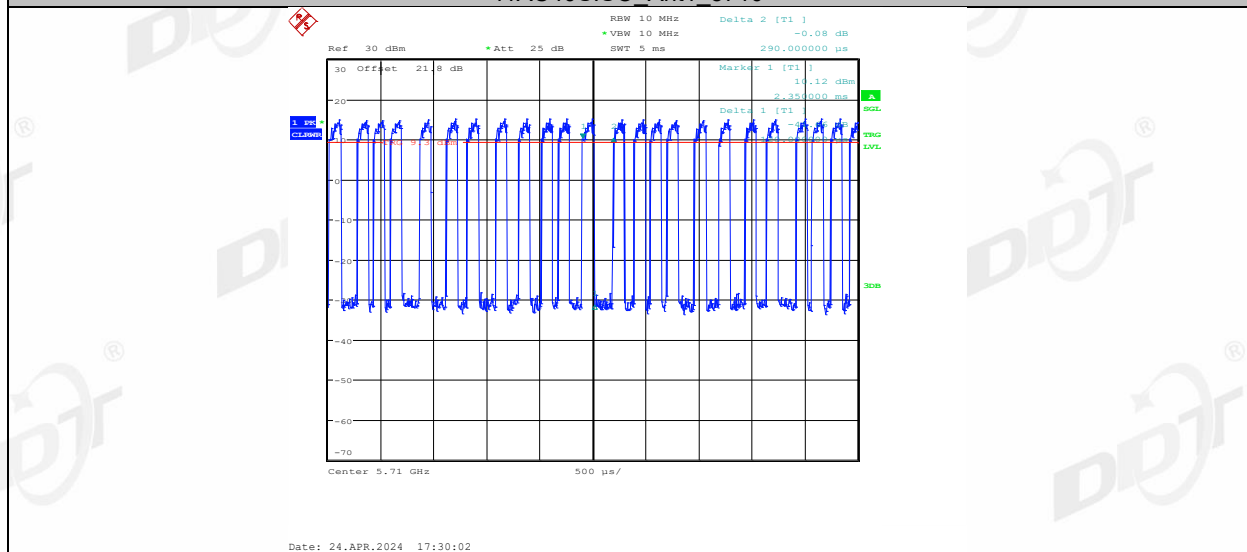
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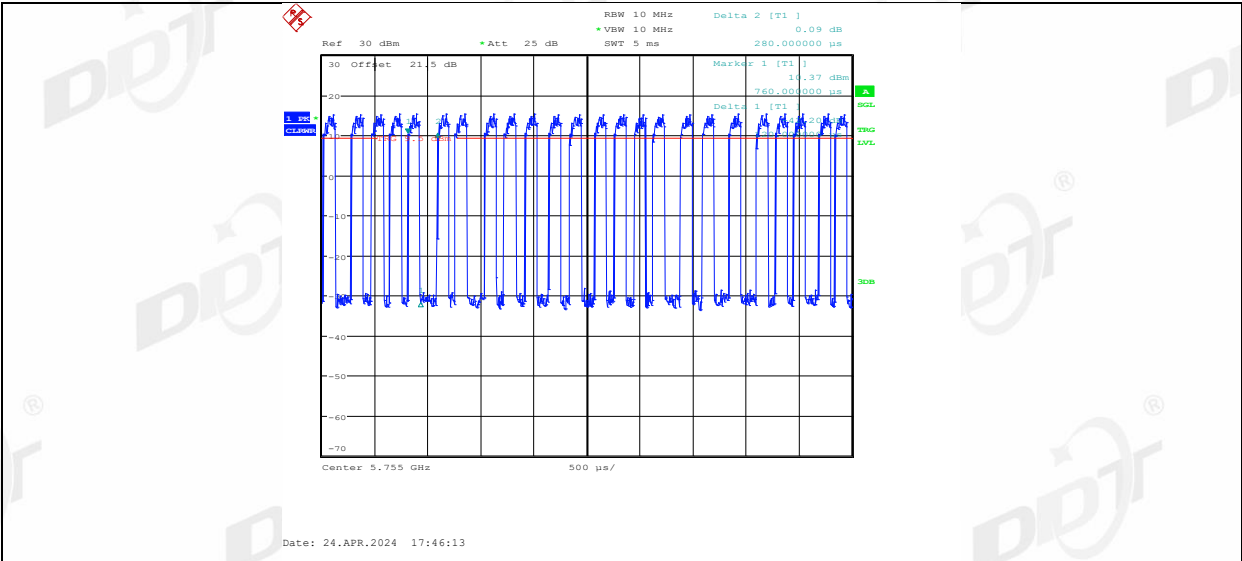
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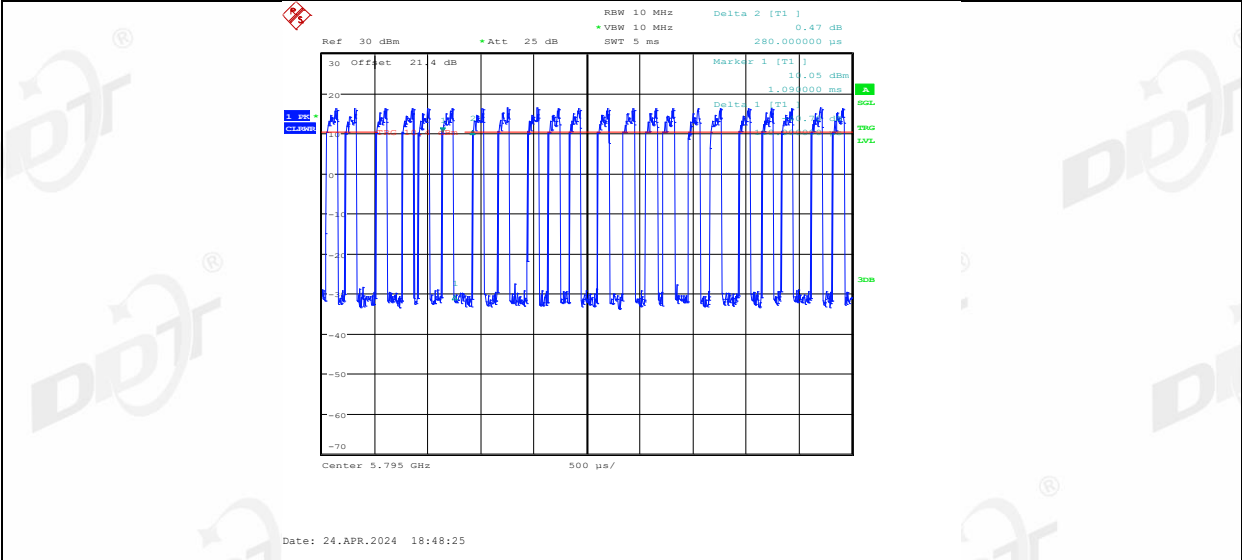
11AC40SISO_Ant1_5710



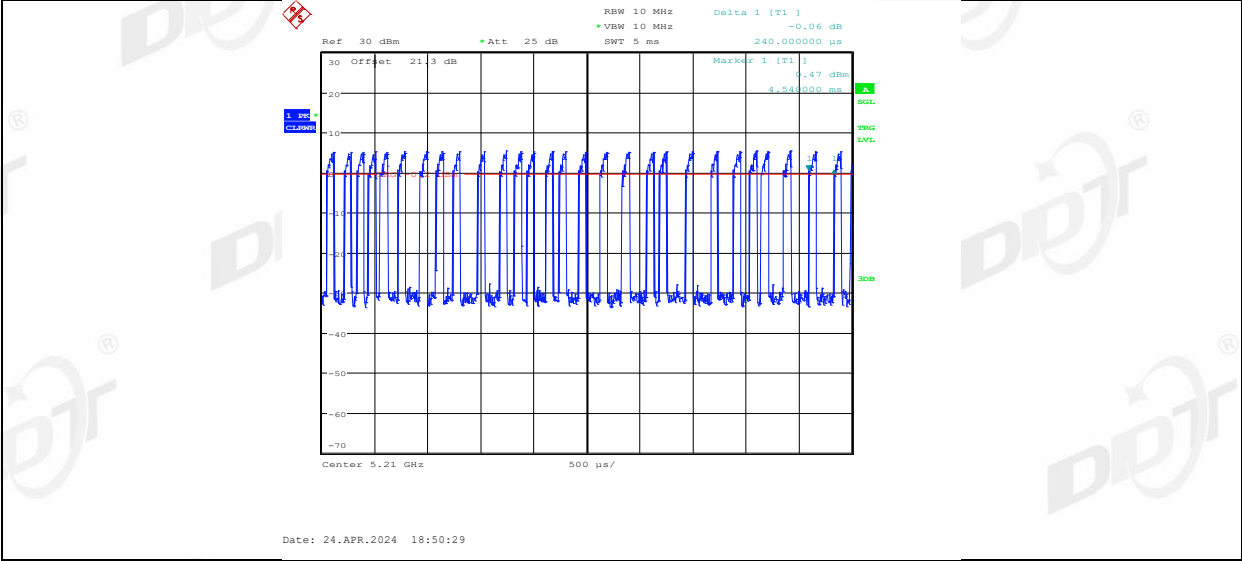
11AC40SISO Ant1 5755



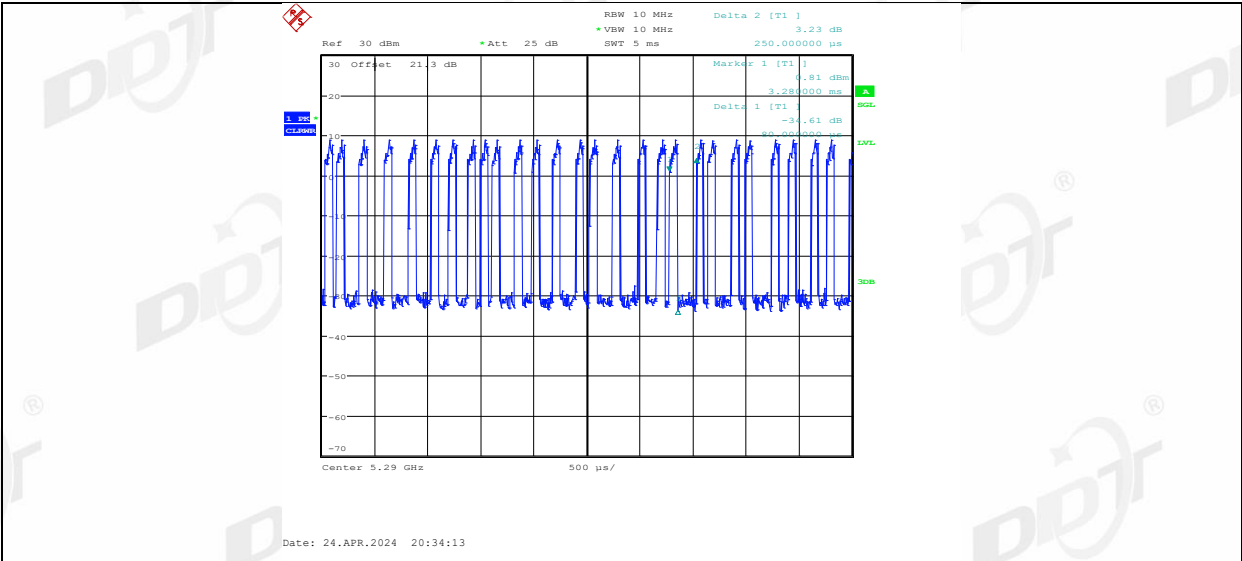
11AC40SISO_Ant1_5795



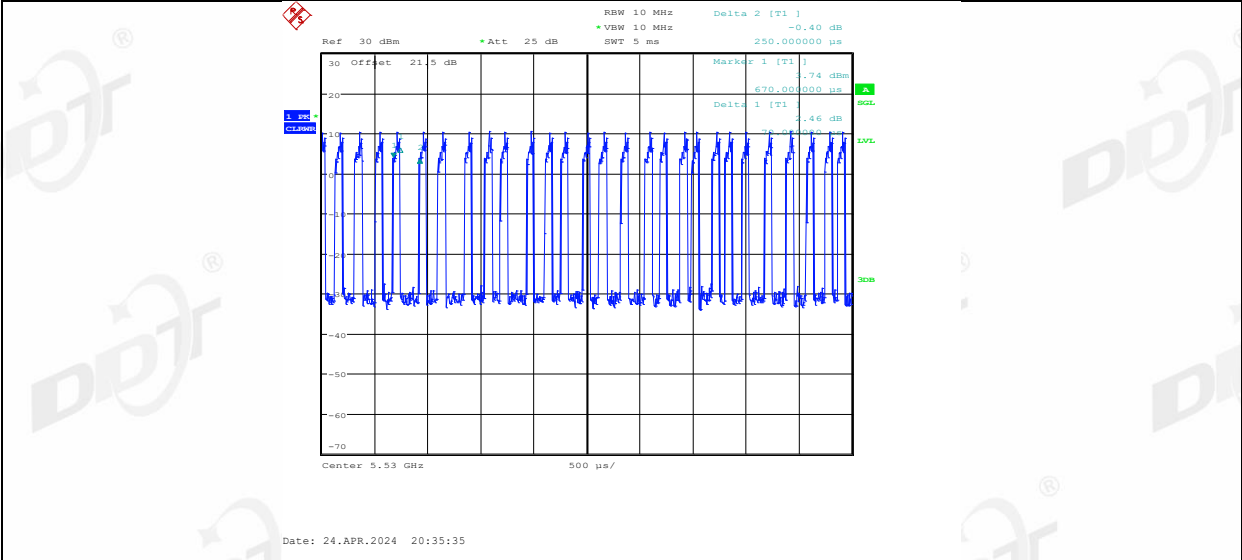
11AC80SISO_Ant1_5210



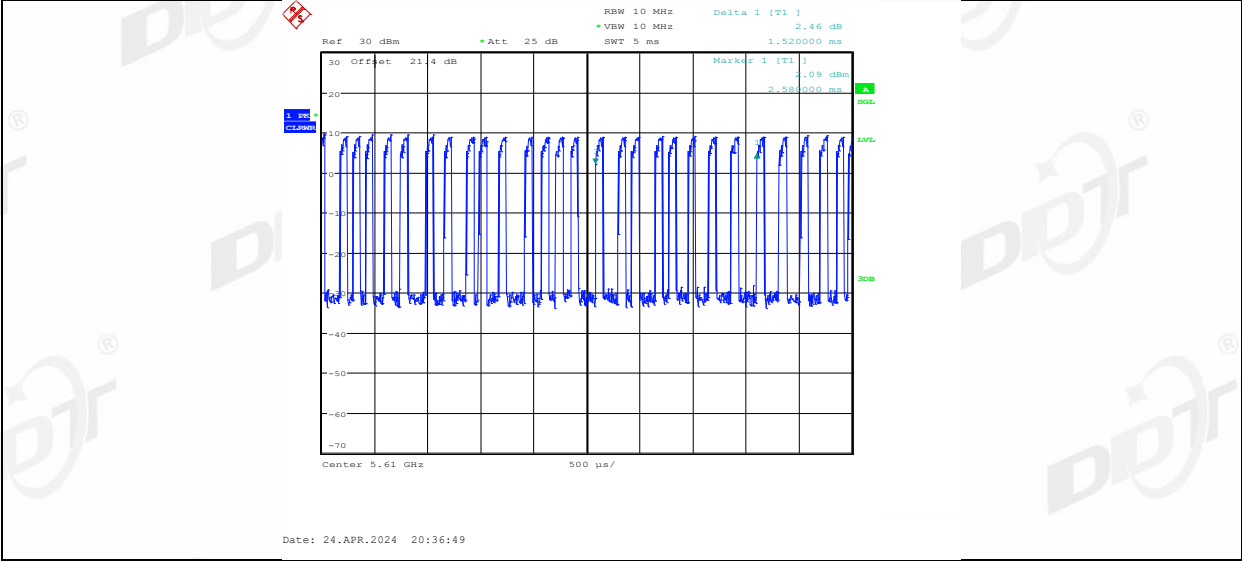
11AC80SISO_Ant1_5290



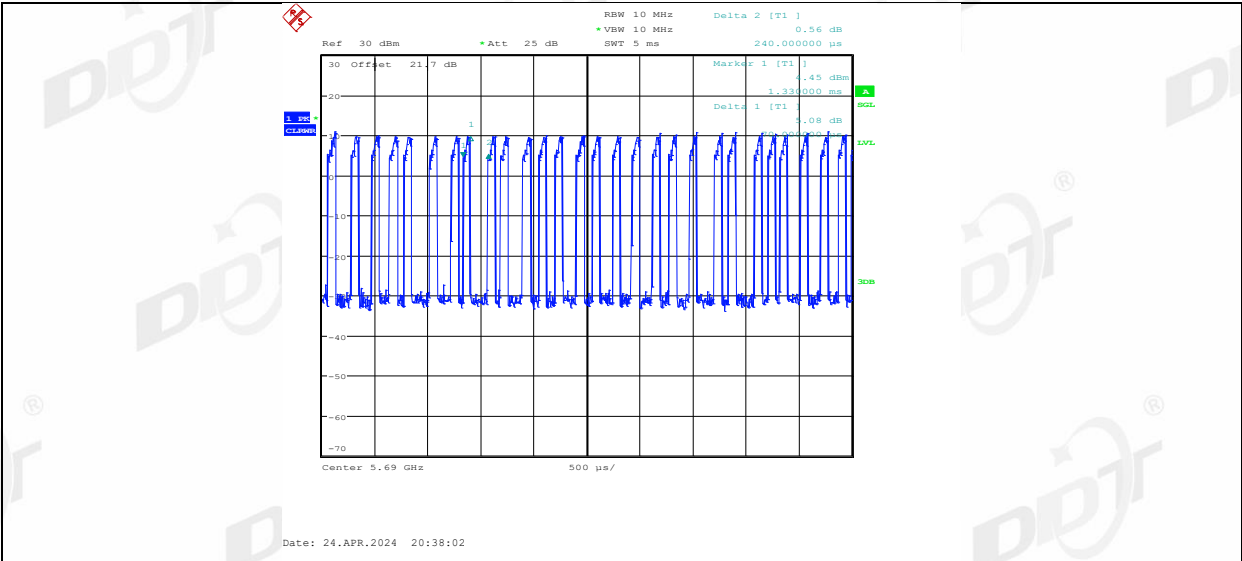
11AC80SISO_Ant1_5530



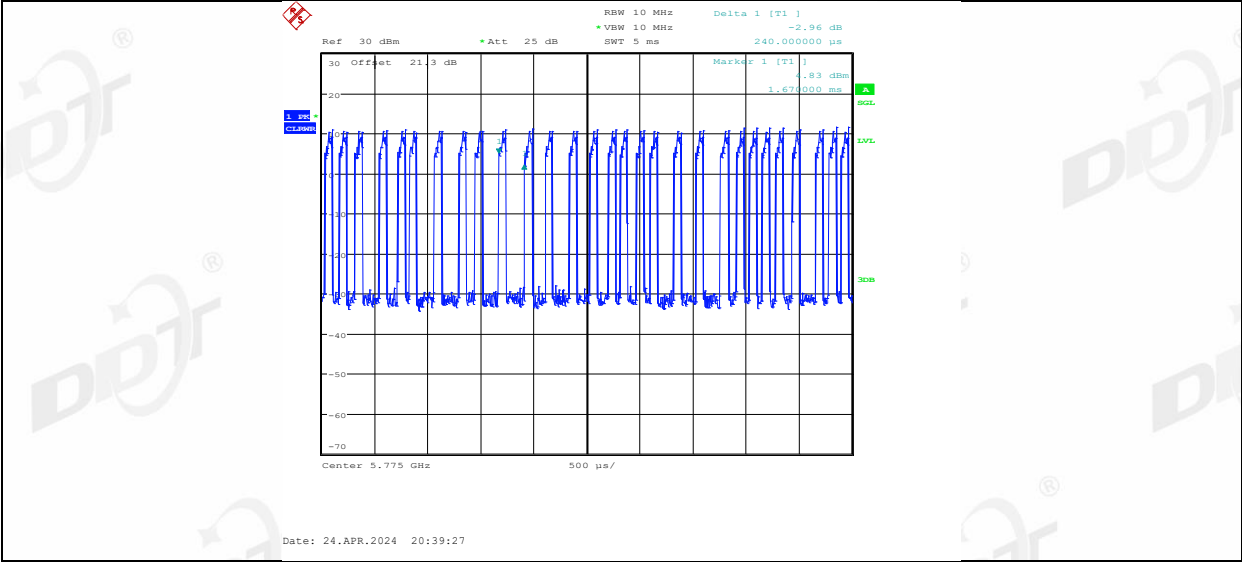
11AC80SISO_Ant1_5610



11AC80SISO_Ant1_5690

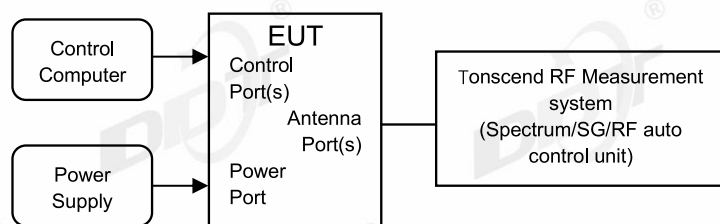


11AC80SISO_Ant1_5775



8. Maximum Output Power

8.1. Block diagram of test setup



8.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Maximum Output Power	outdoor access point: 1 W(30 dBm) indoor access point: 1 W(30 dBm) fixed point-to-point access points1 W(30 dBm) client devices: 250 mW (24 dBm)	5150-5250
	250 mW (24 dBm) or $11 + 10 \log_{10} B$	5250-5350
	250 mW (24 dBm) or $11 + 10 \log_{10} B$	5470 - 5725
	1 Watt (30 dBm)	5725-5850

8.3. Test procedure

Connect each EUT's antenna output to power sensor by RF cable and attenuator
Measure the output power of each antenna port by power sensor.

8.4. Test result channel power

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.3℃,60.6%RH	Test Date:	2024.04.19-2024.04.28
Test Power Supply:	DC 5V from external adapter	Sample Number:	S24021902-001

Test Mode	Antenna	Frequency [MHz]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	59.52	2.25	14.02	≤23.98	PASS
		5200	48.08	3.18	15.05	≤23.98	PASS
		5240	58.14	2.36	14.42	≤23.98	PASS
		5260	59.52	2.25	14.60	≤23.98	PASS
		5280	62.50	2.04	14.42	≤23.98	PASS
		5320	59.52	2.25	14.37	≤23.98	PASS
		5500	60.00	2.22	14.00	≤23.98	PASS
		5580	58.14	2.36	14.55	≤23.98	PASS
		5700	59.52	2.25	16.33	≤23.98	PASS
		5720	62.50	2.04	15.13	≤23.98	PASS
		5745	59.52	2.25	15.67	≤30.00	PASS
		5785	60.98	2.15	15.32	≤30.00	PASS
11N20SISO	Ant1	5825	59.52	2.25	15.52	≤30.00	PASS
		5180	56.10	2.51	14.17	≤23.98	PASS
		5200	57.50	2.40	14.17	≤23.98	PASS
		5240	56.10	2.51	14.46	≤23.98	PASS
		5260	57.50	2.40	14.74	≤23.98	PASS
		5280	58.97	2.29	15.16	≤23.98	PASS
		5320	58.97	2.29	14.22	≤23.98	PASS
		5500	57.50	2.40	13.98	≤23.98	PASS
		5580	56.10	2.51	14.41	≤23.98	PASS
		5700	56.10	2.51	16.24	≤23.98	PASS
		5720	58.97	2.29	15.11	≤23.98	PASS
		5745	56.10	2.51	15.74	≤30.00	PASS
11N40SISO	Ant1	5785	60.53	2.18	15.23	≤30.00	PASS
		5825	57.50	2.40	15.44	≤30.00	PASS
		5190	43.33	3.63	13.60	≤23.98	PASS
		5230	41.94	3.77	15.13	≤23.98	PASS
		5270	40.00	3.98	15.50	≤23.98	PASS
		5310	41.94	3.77	15.14	≤23.98	PASS
		5510	41.94	3.77	14.87	≤23.98	PASS
		5550	44.83	3.48	14.87	≤23.98	PASS
		5670	41.94	3.77	16.58	≤23.98	PASS
		5710	40.00	3.98	16.25	≤23.98	PASS
		5755	44.83	3.48	16.04	≤30.00	PASS
		5795	43.33	3.63	15.92	≤30.00	PASS
11AC20SISO	Ant1	5180	55.56	2.55	11.96	≤23.98	PASS
		5200	54.05	2.67	14.31	≤23.98	PASS
		5240	52.63	2.79	14.64	≤23.98	PASS
		5260	55.56	2.55	14.73	≤23.98	PASS
		5280	52.63	2.79	14.87	≤23.98	PASS
		5320	54.05	2.67	14.38	≤23.98	PASS
		5500	55.56	2.55	13.87	≤23.98	PASS
		5580	54.05	2.67	14.46	≤23.98	PASS
		5700	52.63	2.79	16.37	≤23.98	PASS
		5720	54.05	2.67	15.39	≤23.98	PASS
		5745	55.56	2.55	15.46	≤30.00	PASS
		5785	52.63	2.79	15.44	≤30.00	PASS
11AC40SISO	Ant1	5825	54.05	2.67	15.38	≤30.00	PASS
		5190	42.86	3.68	11.23	≤23.98	PASS
		5230	41.38	3.83	14.69	≤23.98	PASS
		5270	41.38	3.83	14.82	≤23.98	PASS
		5310	41.38	3.83	14.59	≤23.98	PASS
		5510	40.74	3.90	14.19	≤23.98	PASS

		5550	39.29	4.06	14.94	≤23.98	PASS
		5670	39.29	4.06	16.28	≤23.98	PASS
		5710	41.38	3.83	15.58	≤23.98	PASS
		5755	42.86	3.68	15.64	≤30.00	PASS
		5795	39.29	4.06	15.88	≤30.00	PASS
11AC80SISO	Ant1	5210	29.17	5.35	10.66	≤23.98	PASS
		5290	32.00	4.95	13.65	≤23.98	PASS
		5530	28.00	5.53	15.89	≤23.98	PASS
		5610	38.82	4.11	16.14	≤23.98	PASS
		5690	29.17	5.35	17.05	≤23.98	PASS
		5775	33.33	4.77	16.41	≤30.00	PASS