

FCC AND ISED CERTIFICATION TEST REPORT

FOR

Applicant	:	Mercku Inc.
Address	:	3600 Steeles Avenue East, Suite C108B, Markham, Ontario, L3R 9Z7, Canada
Equipment under Test	:	M6a Mesh Wi-Fi Router
Model No.	:	M6a
Trade Mark	:	MERCKU
FCC ID	:	2APR4-M6A
IC	:	23877-M6A
Manufacturer	:	Mercku Technology (China), Inc.
Address	:	Block B1, Southern Software Park No.1 Software Road, Tangjia Zhuhai, Guangdong, China

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

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Dongguan City, Guangdong Province, China, 523808

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REPORT

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Test Report Declare

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Address	:	Block B1, Southern Software Park No.1 Software Road, Tangjia Zhuhai, Guangdong, China

Test Standard Used: FCC Rules and Regulations Part 15 Subpart E, RSS-247 Issue 2 February 2017.

Test procedure used: ANSI C63.10:2013, 789033 D02 General U-NII Test Procedures New Rules v02r01, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)

We Declare:

The equipment described above is tested by Dongguan 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 Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&ISED standards.

Report No:	DDT-R22011714-2E02		
Date of Receipt:	Feb. 21, 2022	Date of Test:	Feb. 21, 2022 ~ Apr. 20, 2022

Prepared By:

Sam Li
Sam Li/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 Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Apr. 21, 2022	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Results
6/26 dB Bandwidth and 99% Bandwidth	FCC 15.407 (e) RSS-247 Clause 6.2	Pass
Maximum Conducted Output Power	FCC 15.407 (a) RSS-247 Clause 6.2	Pass
Power Spectral Density	FCC 15.407 (a) RSS-247 Clause 6.2	Pass
Frequency Stability Measurement	FCC 15.407 (g)	Pass
Spurious Emissions	FCC 15.407 (b) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	Pass
Band Edge Compliance	FCC 15.407 (b) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	Pass
Power Line Conducted Emission	FCC 15.207 RSS-GEN Clause 8.8	Pass
Antenna requirement	FCC 15.203 RSS-GEN Clause 6.8	Pass
Dynamic Frequency Selection	FCC 15.407 (h) RSS-247 Clause 6.3	N/A
Note: N/A is an abbreviation for Not Applicable.		

2. General Test Information

2.1. Description of EUT

EUT* Name	: M6a Mesh Wi-Fi Router
Model Number	: M6a
EUT function description	: Please reference user manual of this device
Power Supply	: DC 12V 1.5A from external AC/DC Adapter
Radio Technology	: IEEE 802.11a/n/ac/ax
Operation frequency	: IEEE 802.11a: 5180 MHz - 5240 MHz, 5745 MHz - 5825 MHz IEEE 802.11n HT20: 5180 MHz - 5240 MHz, 5745 MHz - 5825 MHz IEEE 802.11n HT40: 5190 MHz - 5230 MHz, 5755 MHz - 5795 MHz IEEE 802.11ac VHT20: 5180 MHz - 5240 MHz, 5745 MHz - 5825 MHz IEEE 802.11ac VHT40: 5190 MHz - 5230 MHz, 5755 MHz - 5795 MHz IEEE 802.11ac VHT80: 5210 MHz, 5775 MHz IEEE 802.11ax HE20: 5180 MHz - 5240 MHz, 5745 MHz - 5825 MHz IEEE 802.11ax HE40: 5190 MHz - 5230 MHz, 5755 MHz - 5795 MHz IEEE 802.11ax HE80: 5210 MHz, 5775 MHz
Modulation	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM, OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transmitter rate	: IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: up to 144.4 Mbps IEEE 802.11n HT40: up to 300 Mbps IEEE 802.11ac VHT20: up to 173.4 Mbps IEEE 802.11ac VHT40: up to 400 Mbps IEEE 802.11ac VHT80: up to 866.6 Mbps IEEE 802.11ax HE20: up to 286.8 Mbps IEEE 802.11ax HE40: up to 573.6 Mbps IEEE 802.11ax HE80: up to 2402 Mbps
Antenna Gain	: Ant1: 7 dBi Ant2: 7 dBi
Sample Type	: Series production
Serial Number	: R22011714M6A

Note: EUT is the abbreviation of equipment under test.

Antenna information			
	Ant1 gain	Ant2 gain	MIMO
IEEE 802.11a	7	7	/
IEEE 802.11n HT20	7	7	10.01
IEEE 802.11n HT40	7	7	10.01
IEEE 802.11ac VHT20	7	7	10.01
IEEE 802.11ac VHT40	7	7	10.01
IEEE 802.11ac VHT80	7	7	10.01

IEEE 802.11ax HE20	7	7	10.01
IEEE 802.11ax HE40	7	7	10.01
IEEE 802.11ax HE80	7	7	10.01

Channel information					
IEEE 802.11a IEEE 802.11n HT20 IEEE 802.11ac VHT20 IEEE 802.11ax HE20		IEEE 802.11n HT40 IEEE 802.11ac VHT40 IEEE 802.11ax HE40		IEEE 802.11ac VHT80 IEEE 802.11ax HE80	
UNII-1					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	/	/
44	5220	/	/	/	/
48	5240	/	/	/	/
UNII-3					
149	5745	151	5755	155	5725
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/

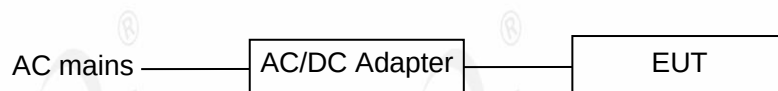
2.2. Accessories of EUT

Assistant equipment	Manufacturer	Model number	Other
AC/DC ADAPTER	Keyu Power	KA1801A-1201500US	Length: 1.20m
Internet cable	N/A	N/A	Length: 1.00m

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test



Test software: QA_TOOL

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

Tested mode, channel, setting Tx power and rand data rate information				
Mode	Setting Tx Power	data rate (Mbps) (see Note)	Channel	Frequency (MHz)
IEEE 802.11a	9	6	Low: CH36	5180
	9	6	Middle: CH40	5200
	9	6	High: CH48	5240
	2	6	Low: CH149	5745
	2	6	Middle: CH157	5785
	2	6	High: CH165	5825
IEEE 802.11n HT20	3	MCS0	Low: CH36	5180
	3	MCS0	Middle: CH40	5200
	3	MCS0	High: CH48	5240
	0	MCS0	Low: CH149	5745
	0	MCS0	Middle: CH157	5785
	0	MCS0	High: CH165	5825
IEEE 802.11n HT40	3	MCS0	Low: CH38	5190
	3	MCS0	Middle: CH46	5230
	0	MCS0	Middle: CH151	5755
	0	MCS0	High: CH159	5795
IEEE 802.11ac VHT20	3	MCS0	Low: CH36	5180
	3	MCS0	Middle: CH40	5200
	3	MCS0	High: CH48	5240
	0	MCS0	Low: CH149	5745
	0	MCS0	Middle: CH157	5785
	0	MCS0	High: CH165	5825
IEEE 802.11ac VHT40	3	MCS0	Low: CH38	5190
	3	MCS0	Middle: CH46	5230
	0	MCS0	Middle: CH151	5755
	0	MCS0	High: CH159	5795
IEEE 802.11ac VHT80	3	MCS0	CH42	5210
	0	MCS0	CH155	5775
IEEE 802.11ax HE20	3	MCS0	Low: CH36	5180
	3	MCS0	Middle: CH40	5200
	3	MCS0	High: CH48	5240
	0	MCS0	Low: CH149	5745
	0	MCS0	Middle: CH157	5785
	0	MCS0	High: CH165	5825
IEEE 802.11ax HE40	3	MCS0	Low: CH38	5190
	3	MCS0	Middle: CH46	5230
	0	MCS0	Middle: CH151	5755
	0	MCS0	High: CH159	5795
IEEE 802.11ax HE80	3	MCS0	CH42	5210
	0	MCS0	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:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, 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, 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 ($8 \text{ GHz} \leq f < 22 \text{ GHz}$)
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	3.32 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

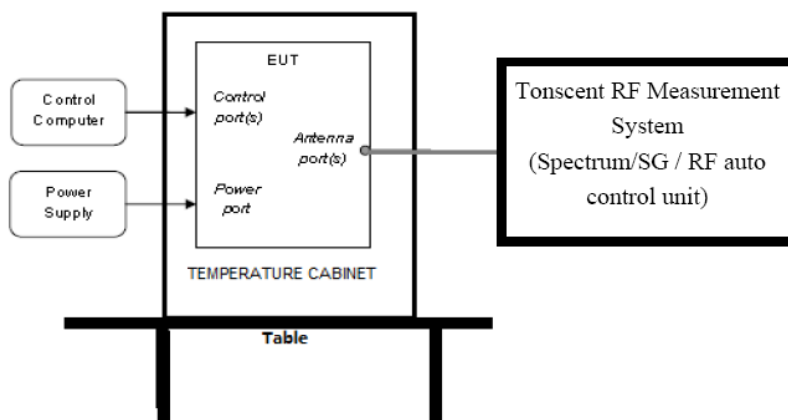
3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☐ RF Connected Test (Tonscend RF Measurement System 1#)					
Spectrum analyzer	R&S	FSU26	200071	Sep. 02, 2021	1 Year
Wideband Radio Communication tester	R&S	CMW500	120259	Sep. 02, 2021	1 Year
Vector Signal Generator	Agilent	E8267D	US49060192	Sep. 18, 2021	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180737	Jun. 01, 2021	1 Year
RF Control Unit	Tonsend	JS0806-2	158060010	Jun. 01, 2021	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150 L	ZX170110-A	Jun. 01, 2021	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.6.77.0518	N/A	N/A
☒ RF Connected Test (Tonscend RF Measurement System 3#)					
Signal analyzer	R&S	FSQ26	101272	Jun. 01, 2021	1 Year
Wideband Radio Communication tester	R&S	CMW500	117491	Jun. 01, 2021	1 Year
Vector Signal Generator	Agilent	N5182A	MY19060405	Jun. 01, 2021	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180912	Jun. 01, 2021	1 Year
RF Control Unit	Tonsend	JS0806-2	DDT-ZC01449	Jun. 01, 2021	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150 L	ZX170110-A	Jun. 01, 2021	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.6.77.0518	N/A	N/A
☐ RF Connected Test (Tonscend RF Measurement System 4#)					
MXA SignalAnalyzer	Agilent	N9020A	MY49100362	Sep. 02, 2021	1 Year
Wideband Radio Communication tester	R&S	CMW500	120259	Jun. 01, 2021	1 Year
MXG Vector Signal Generator	Agilent	N5182B	MY59100192	Jun. 01, 2021	1 Year
Vector Signal Generator	Agilent	E8267D	US49060192	Sep. 18, 2021	1 Year
RF Control Unit	Tonsend	JS0806-2	2118060485	Oct. 18, 2021	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150 L	ZX170110-A	Jun. 01, 2021	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.6.88.0330	N/A	N/A
☒ Radiation 3#chamber					
EMI Test Receiver	R&S	ESU	100472	Jun. 01, 2021	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 01, 2021	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 19, 2021	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Aug. 07, 2021	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120	02108	Jul. 17, 2021	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 08, 2021	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Sep. 02, 2021	1 Year

Pre-amplifier	COM-POWER	PAM-840A	461369	Mar. 15, 2022	1 Year
Test software	Audix	E3	V 6.1.1.1	N/A	N/A
☒ Power Line Conducted Emissions Test 1#					
Test Receiver	R&S	ESCI	100551	Sep. 02, 2021	1 Year
LISN 1	R&S	ENV216	101109	Sep. 02, 2021	1 Year
LISN 2	R&S	ESH2-Z5	100309	Sep. 02, 2021	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Sep. 02, 2021	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Sep. 02, 2021	1 Year
LISN 3	SCHWARZBECK	NSLK 8163	00017	Sep. 02, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
☐ Power Line Conducted Emissions Test 2#					
Test Receiver	R&S	ESCI	101028	Sep. 02, 2021	1 Year
LISN 1	R&S	ENV216	101170	Sep. 02, 2021	1 Year
Pulse Limiter	R&S	KH43101	431011801568-12#	Jun. 01, 2021	1 Year
CE Cable 2	HUBSER	RG214-5	N/A	Jun. 01, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

4. 26 dB Bandwidth, 6 dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Bandwidth	26 dB Bandwidth	5150 - 5250
	26 dB Bandwidth	5250 - 5350
	26 dB Bandwidth	For FCC: 5470 - 5725 For IC: 5470 - 5600 5650 - 5725
	Minimum 500 kHz 6 dB Bandwidth	5725 - 5850

4.3. Test procedure

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

Center Frequency	The centre 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

(2) 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 and 6 dB relative to the maximum level measured in the fundamental emission.

4.4. Test result

99% Bandwidth:

Test Mode	Antenna	Channel	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	16.84	5171.600	5188.440	---	Pass
	Ant2	5180	16.80	5171.600	5188.400	---	Pass
	Ant1	5200	16.84	5191.560	5208.400	---	Pass
	Ant2	5200	16.84	5191.560	5208.400	---	Pass
	Ant1	5240	16.80	5231.600	5248.400	---	Pass
	Ant2	5240	16.80	5231.600	5248.400	---	Pass
	Ant1	5745	16.88	5736.560	5753.440	---	Pass
	Ant2	5745	16.84	5736.560	5753.400	---	Pass
	Ant1	5785	16.88	5776.560	5793.440	---	Pass
	Ant2	5785	16.84	5776.600	5793.440	---	Pass
	Ant1	5825	16.88	5816.560	5833.440	---	Pass
	Ant2	5825	16.84	5816.560	5833.400	---	Pass
11N20 MIMO	Ant1	5180	17.84	5171.080	5188.920	---	Pass
	Ant2	5180	17.68	5171.120	5188.800	---	Pass
	Ant1	5200	17.80	5191.120	5208.920	---	Pass
	Ant2	5200	17.68	5191.160	5208.840	---	Pass
	Ant1	5240	17.84	5231.080	5248.920	---	Pass
	Ant2	5240	17.68	5231.160	5248.840	---	Pass
	Ant1	5745	17.84	5736.080	5753.920	---	Pass
	Ant2	5745	17.68	5736.160	5753.840	---	Pass
	Ant1	5785	17.84	5776.080	5793.920	---	Pass
	Ant2	5785	17.72	5776.120	5793.840	---	Pass
	Ant1	5825	17.84	5816.080	5833.920	---	Pass
	Ant2	5825	17.72	5816.120	5833.840	---	Pass
11N40 MIMO	Ant1	5190	36.24	5171.840	5208.080	---	Pass
	Ant2	5190	36.00	5171.920	5207.920	---	Pass
	Ant1	5230	36.24	5211.840	5248.080	---	Pass
	Ant2	5230	36.16	5211.920	5248.080	---	Pass
	Ant1	5755	36.24	5736.920	5773.160	---	Pass
	Ant2	5755	36.16	5736.920	5773.080	---	Pass
	Ant1	5795	36.08	5776.920	5813.000	---	Pass
	Ant2	5795	36.08	5776.840	5812.920	---	Pass
11AC20 MIMO	Ant1	5180	17.80	5171.080	5188.880	---	Pass
	Ant2	5180	17.64	5171.160	5188.800	---	Pass
	Ant1	5200	17.88	5191.080	5208.960	---	Pass
	Ant2	5200	17.72	5191.160	5208.880	---	Pass
	Ant1	5240	17.84	5231.080	5248.920	---	Pass
	Ant2	5240	17.68	5231.160	5248.840	---	Pass
	Ant1	5745	17.84	5736.080	5753.920	---	Pass
	Ant2	5745	17.68	5736.160	5753.840	---	Pass
	Ant1	5785	17.84	5776.080	5793.920	---	Pass
	Ant2	5785	17.72	5776.120	5793.840	---	Pass
	Ant1	5825	17.84	5816.080	5833.920	---	Pass
	Ant2	5825	17.72	5816.120	5833.840	---	Pass
11AC40 MIMO	Ant1	5190	36.16	5171.920	5208.080	---	Pass
	Ant2	5190	36.00	5172.000	5208.000	---	Pass

	Ant1	5230	36.24	5211.920	5248.160	---	Pass
	Ant2	5230	36.08	5211.920	5248.000	---	Pass
	Ant1	5755	36.24	5736.920	5773.160	---	Pass
	Ant2	5755	36.24	5736.920	5773.160	---	Pass
	Ant1	5795	36.24	5776.840	5813.080	---	Pass
	Ant2	5795	36.16	5776.920	5813.080	---	Pass
11AC80 MIMO	Ant1	5210	74.88	5172.560	5247.440	---	Pass
	Ant2	5210	74.88	5172.560	5247.440	---	Pass
	Ant1	5775	75.04	5737.560	5812.600	---	Pass
	Ant2	5775	74.72	5737.560	5812.280	---	Pass
11AX20 MIMO	Ant1	5180	19.20	5170.400	5189.600	---	Pass
	Ant2	5180	19.16	5170.400	5189.560	---	Pass
	Ant1	5200	19.16	5190.400	5209.560	---	Pass
	Ant2	5200	19.12	5190.400	5209.520	---	Pass
	Ant1	5240	18.92	5230.560	5249.480	---	Pass
	Ant2	5240	18.88	5230.560	5249.440	---	Pass
	Ant1	5745	19.16	5735.440	5754.600	---	Pass
	Ant2	5745	19.16	5735.440	5754.600	---	Pass
	Ant1	5785	19.20	5775.400	5794.600	---	Pass
	Ant2	5785	19.16	5775.400	5794.560	---	Pass
	Ant1	5825	19.16	5815.400	5834.560	---	Pass
	Ant2	5825	19.16	5815.400	5834.560	---	Pass
11AX40 MIMO	Ant1	5190	37.60	5171.200	5208.800	---	Pass
	Ant2	5190	37.60	5171.200	5208.800	---	Pass
	Ant1	5230	37.60	5211.200	5248.800	---	Pass
	Ant2	5230	37.68	5211.120	5248.800	---	Pass
	Ant1	5755	37.60	5736.200	5773.800	---	Pass
	Ant2	5755	37.68	5736.120	5773.800	---	Pass
	Ant1	5795	37.68	5776.120	5813.800	---	Pass
	Ant2	5795	37.76	5776.120	5813.880	---	Pass
11AX80 MIMO	Ant1	5210	76.48	5171.760	5248.240	---	Pass
	Ant2	5210	76.64	5171.600	5248.240	---	Pass
	Ant1	5775	76.64	5736.760	5813.400	---	Pass
	Ant2	5775	76.32	5736.760	5813.080	---	Pass

26 dB EBW:

Test Mode	Antenna	Channel	26 dB EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	20.20	5170.00	5190.20	---	Pass
	Ant2	5180	20.20	5169.84	5190.04	---	Pass
	Ant1	5200	20.16	5189.92	5210.08	---	Pass
	Ant2	5200	20.20	5189.88	5210.08	---	Pass
	Ant1	5240	20.12	5229.92	5250.04	---	Pass
	Ant2	5240	20.08	5229.92	5250.00	---	Pass
	Ant1	5745	20.12	5735.00	5755.12	---	Pass
	Ant2	5745	19.96	5734.96	5754.92	---	Pass
	Ant1	5785	20.20	5774.88	5795.08	---	Pass
	Ant2	5785	20.12	5774.96	5795.08	---	Pass
	Ant1	5825	20.08	5814.96	5835.04	---	Pass
	Ant2	5825	20.08	5814.96	5835.04	---	Pass

11N20 MIMO	Ant1	5180	20.40	5169.80	5190.20	---	Pass
	Ant2	5180	20.28	5169.84	5190.12	---	Pass
	Ant1	5200	20.52	5189.80	5210.32	---	Pass
	Ant2	5200	20.40	5189.80	5210.20	---	Pass
	Ant1	5240	20.40	5229.84	5250.24	---	Pass
	Ant2	5240	20.36	5229.76	5250.12	---	Pass
	Ant1	5745	20.32	5734.84	5755.16	---	Pass
	Ant2	5745	20.20	5734.88	5755.08	---	Pass
	Ant1	5785	20.44	5774.80	5795.24	---	Pass
	Ant2	5785	20.24	5774.88	5795.12	---	Pass
	Ant1	5825	20.44	5814.76	5835.20	---	Pass
	Ant2	5825	20.20	5814.84	5835.04	---	Pass
11N40 MIMO	Ant1	5190	40.64	5169.68	5210.32	---	Pass
	Ant2	5190	40.08	5169.92	5210.00	---	Pass
	Ant1	5230	40.96	5209.44	5250.40	---	Pass
	Ant2	5230	40.08	5210.00	5250.08	---	Pass
	Ant1	5755	40.96	5734.68	5775.64	---	Pass
	Ant2	5755	40.00	5735.00	5775.00	---	Pass
	Ant1	5795	40.48	5774.68	5815.16	---	Pass
	Ant2	5795	39.92	5775.00	5814.92	---	Pass
11AC20 MIMO	Ant1	5180	20.40	5169.72	5190.12	---	Pass
	Ant2	5180	20.28	5169.84	5190.12	---	Pass
	Ant1	5200	20.44	5189.76	5210.20	---	Pass
	Ant2	5200	20.32	5189.80	5210.12	---	Pass
	Ant1	5240	20.36	5229.80	5250.16	---	Pass
	Ant2	5240	20.32	5229.80	5250.12	---	Pass
	Ant1	5745	20.36	5734.88	5755.24	---	Pass
	Ant2	5745	20.32	5734.88	5755.20	---	Pass
	Ant1	5785	20.40	5774.84	5795.24	---	Pass
	Ant2	5785	20.36	5774.80	5795.16	---	Pass
	Ant1	5825	20.40	5814.76	5835.16	---	Pass
	Ant2	5825	20.28	5814.80	5835.08	---	Pass
11AC40 MIMO	Ant1	5190	40.64	5169.60	5210.24	---	Pass
	Ant2	5190	40.08	5169.92	5210.00	---	Pass
	Ant1	5230	40.56	5209.76	5250.32	---	Pass
	Ant2	5230	40.08	5209.84	5249.92	---	Pass
	Ant1	5755	40.80	5734.60	5775.40	---	Pass
	Ant2	5755	39.84	5735.16	5775.00	---	Pass
	Ant1	5795	40.56	5774.60	5815.16	---	Pass
	Ant2	5795	40.24	5774.76	5815.00	---	Pass
11AC80 MIMO	Ant1	5210	80.64	5169.52	5250.16	---	Pass
	Ant2	5210	80.00	5170.00	5250.00	---	Pass
	Ant1	5775	80.16	5735.00	5815.16	---	Pass
	Ant2	5775	80.16	5735.00	5815.16	---	Pass
11AX20 MIMO	Ant1	5180	23.88	5167.76	5191.64	---	Pass
	Ant2	5180	24.88	5168.52	5193.40	---	Pass
	Ant1	5200	21.88	5189.08	5210.96	---	Pass
	Ant2	5200	22.00	5189.04	5211.04	---	Pass
	Ant1	5240	20.00	5230.04	5250.04	---	Pass
	Ant2	5240	20.00	5230.00	5250.00	---	Pass
	Ant1	5745	24.36	5734.12	5758.48	---	Pass

	Ant2	5745	25.88	5730.72	5756.60	---	Pass
	Ant1	5785	28.28	5773.08	5801.36	---	Pass
	Ant2	5785	29.72	5772.40	5802.12	---	Pass
	Ant1	5825	22.92	5813.08	5836.00	---	Pass
	Ant2	5825	22.36	5813.88	5836.24	---	Pass
11AX40 MIMO	Ant1	5190	40.00	5170.00	5210.00	---	Pass
	Ant2	5190	39.84	5170.08	5209.92	---	Pass
	Ant1	5230	39.84	5210.08	5249.92	---	Pass
	Ant2	5230	39.76	5210.08	5249.84	---	Pass
	Ant1	5755	40.00	5735.08	5775.08	---	Pass
	Ant2	5755	39.84	5735.08	5774.92	---	Pass
	Ant1	5795	39.92	5775.00	5814.92	---	Pass
	Ant2	5795	39.92	5775.00	5814.92	---	Pass
11AX80 MIMO	Ant1	5210	80.96	5169.52	5250.48	---	Pass
	Ant2	5210	80.96	5169.52	5250.48	---	Pass
	Ant1	5775	80.64	5734.68	5815.32	---	Pass
	Ant2	5775	80.80	5734.68	5815.48	---	Pass

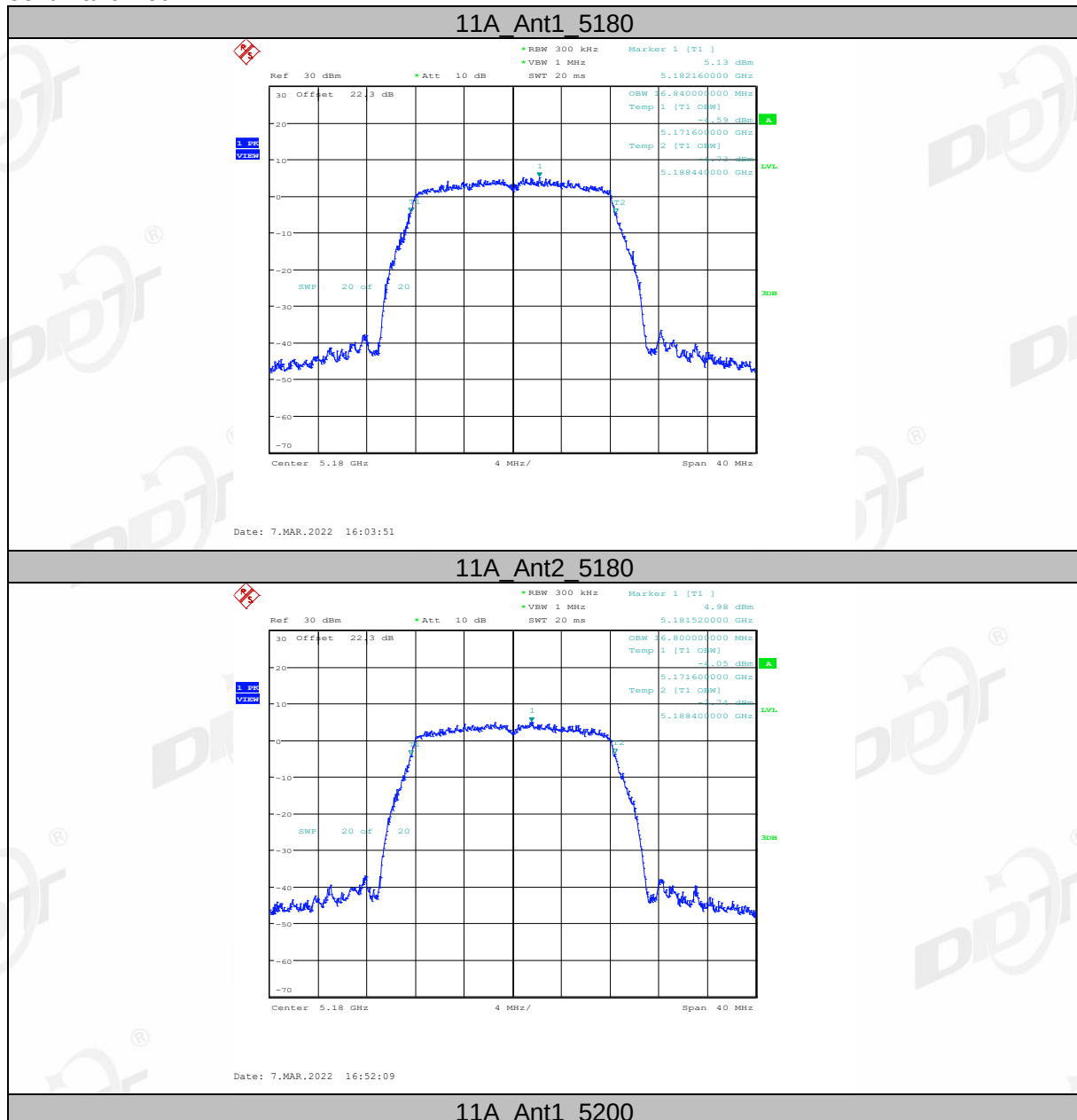
6 dB EBW:

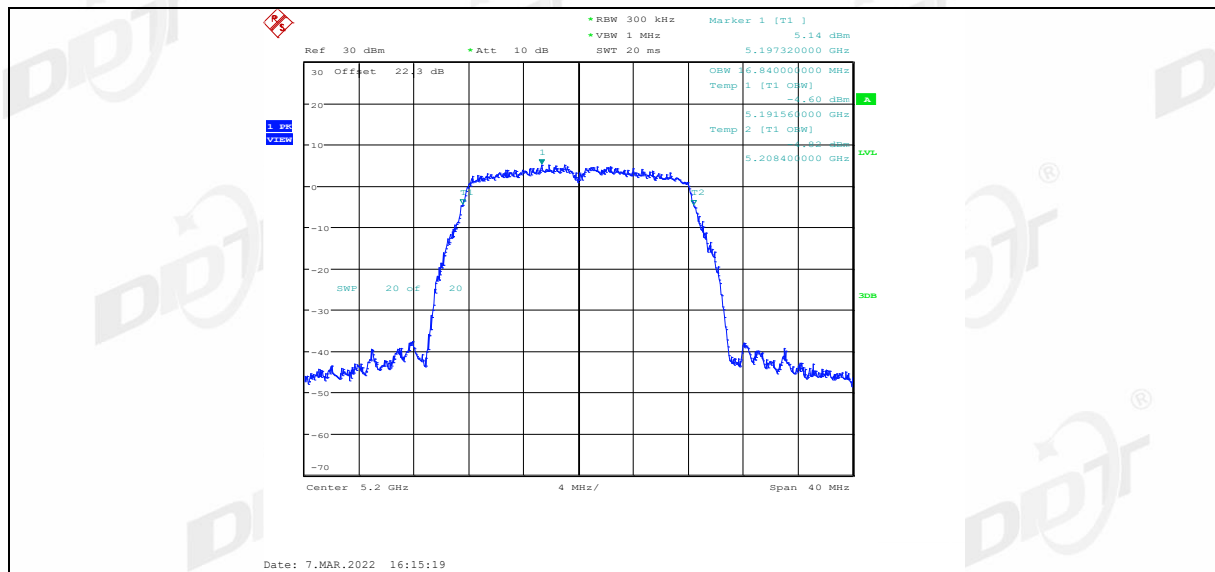
Test Mode	Antenna	Channel	6 dB EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	15.32	5737.44	5752.76	0.5	Pass
	Ant2	5745	16.00	5737.12	5753.12	0.5	Pass
	Ant1	5785	15.64	5777.24	5792.88	0.5	Pass
	Ant2	5785	15.48	5777.44	5792.92	0.5	Pass
	Ant1	5825	15.64	5817.12	5832.76	0.5	Pass
	Ant2	5825	15.68	5817.08	5832.76	0.5	Pass
11N20 MIMO	Ant1	5745	16.04	5737.44	5753.48	0.5	Pass
	Ant2	5745	16.92	5736.84	5753.76	0.5	Pass
	Ant1	5785	15.88	5777.48	5793.36	0.5	Pass
	Ant2	5785	16.92	5776.20	5793.12	0.5	Pass
	Ant1	5825	15.36	5817.20	5832.56	0.5	Pass
	Ant2	5825	17.52	5816.24	5833.76	0.5	Pass
11N40 MIMO	Ant1	5755	35.04	5737.48	5772.52	0.5	Pass
	Ant2	5755	33.84	5737.48	5771.32	0.5	Pass
	Ant1	5795	35.04	5777.48	5812.52	0.5	Pass
	Ant2	5795	32.56	5777.48	5810.04	0.5	Pass
11AC20 MIMO	Ant1	5745	15.88	5737.24	5753.12	0.5	Pass
	Ant2	5745	17.28	5736.24	5753.52	0.5	Pass
	Ant1	5785	15.92	5776.64	5792.56	0.5	Pass
	Ant2	5785	16.92	5776.84	5793.76	0.5	Pass
	Ant1	5825	15.48	5817.08	5832.56	0.5	Pass
	Ant2	5825	16.88	5816.24	5833.12	0.5	Pass
11AC40 MIMO	Ant1	5755	35.04	5737.48	5772.52	0.5	Pass
	Ant2	5755	35.04	5737.48	5772.52	0.5	Pass
	Ant1	5795	35.04	5777.48	5812.52	0.5	Pass
	Ant2	5795	35.04	5777.48	5812.52	0.5	Pass
11AC80 MIMO	Ant1	5775	73.92	5738.68	5812.60	0.5	Pass
	Ant2	5775	75.20	5737.40	5812.60	0.5	Pass
11AX20	Ant1	5745	18.56	5735.80	5754.36	0.5	Pass

MIMO	Ant2	5745	18.84	5735.60	5754.44	0.5	Pass
	Ant1	5785	18.92	5775.52	5794.44	0.5	Pass
	Ant2	5785	18.96	5775.44	5794.40	0.5	Pass
	Ant1	5825	18.88	5815.52	5834.40	0.5	Pass
	Ant2	5825	18.80	5815.56	5834.36	0.5	Pass
11AX40 MIMO	Ant1	5755	35.84	5737.40	5773.24	0.5	Pass
	Ant2	5755	35.12	5737.40	5772.52	0.5	Pass
	Ant1	5795	35.04	5777.48	5812.52	0.5	Pass
	Ant2	5795	34.56	5777.96	5812.52	0.5	Pass
11AX80 MIMO	Ant1	5775	71.20	5739.96	5811.16	0.5	Pass
	Ant2	5775	70.24	5742.36	5812.60	0.5	Pass

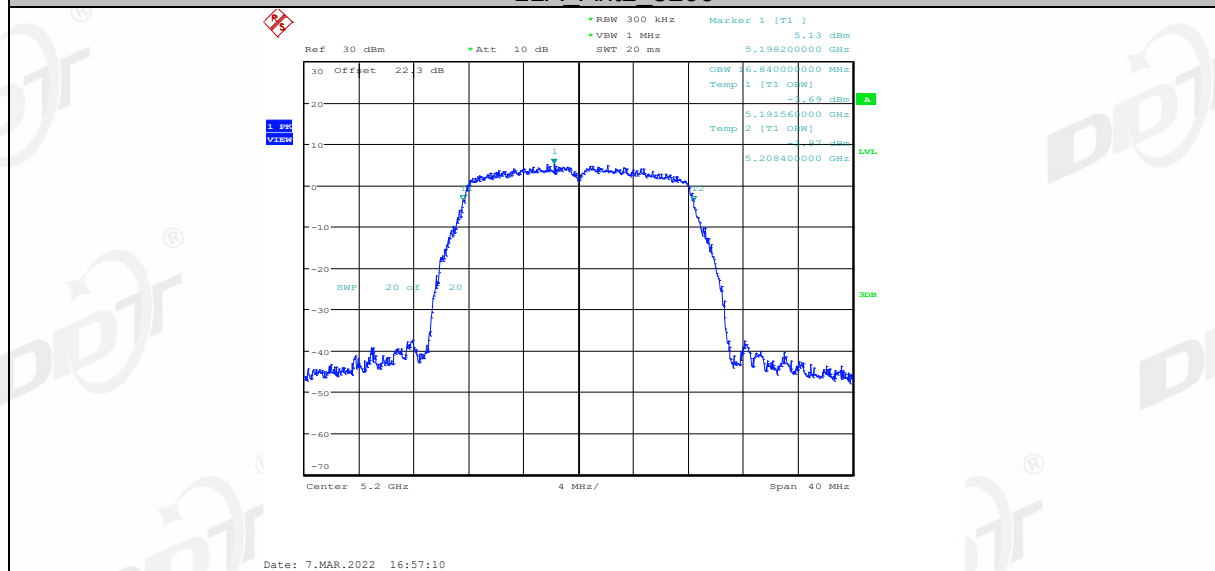
4.5. Original test data

99% Bandwidth:

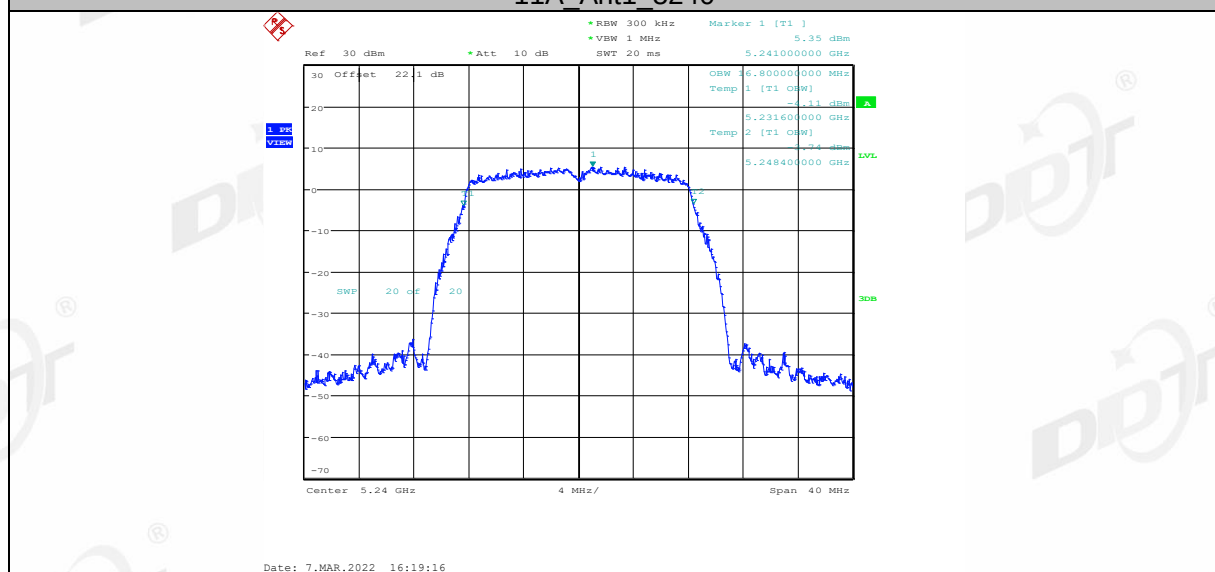




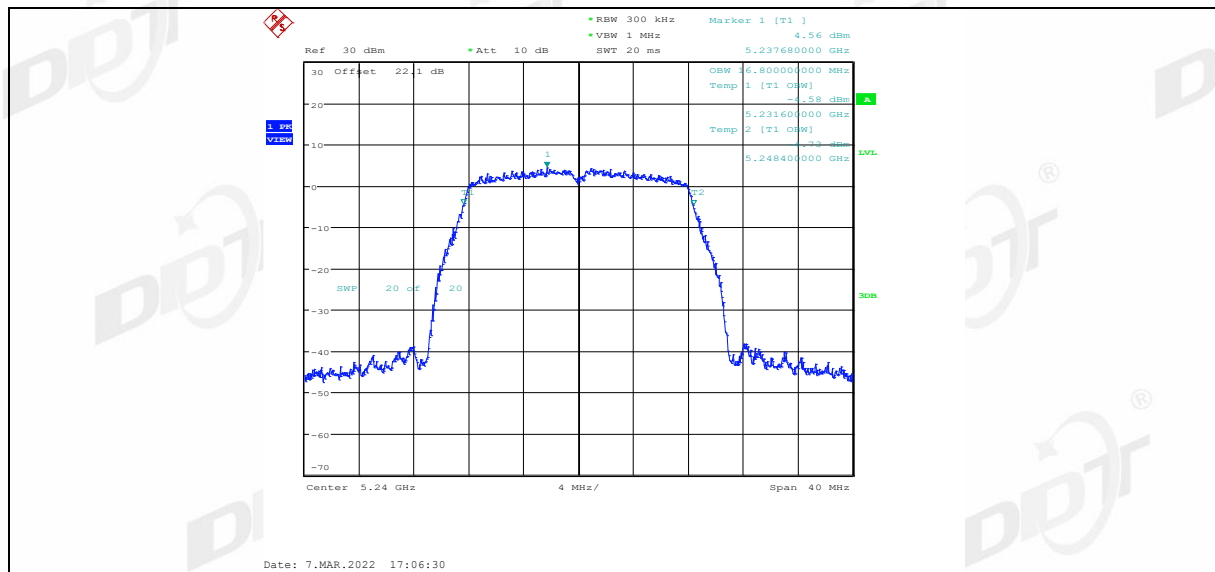
11A Ant2 5200



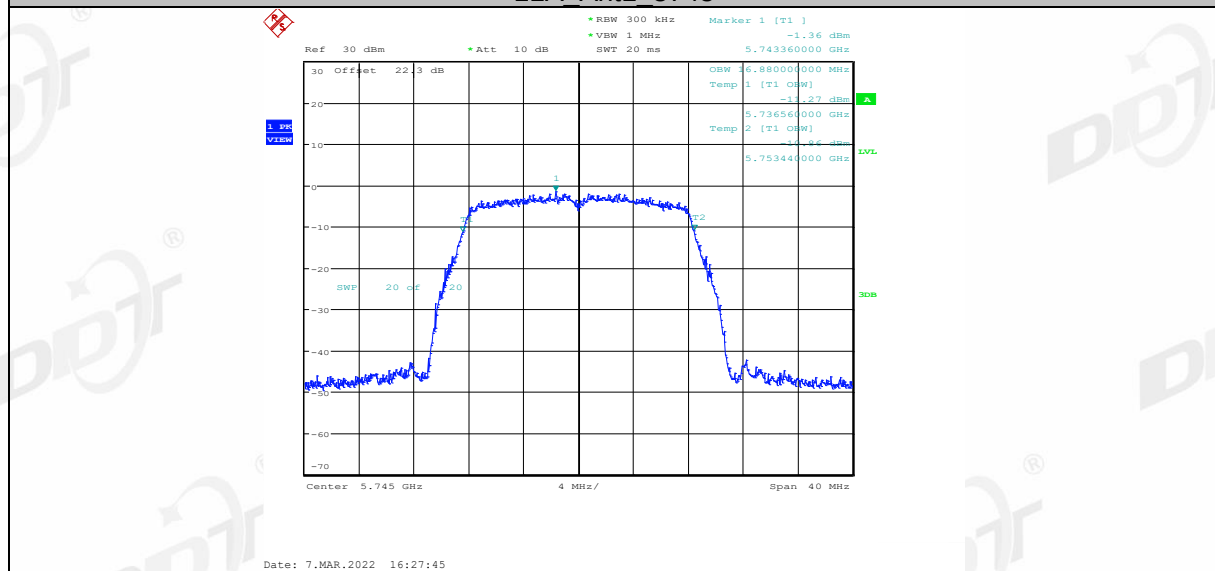
11A Ant1 5240



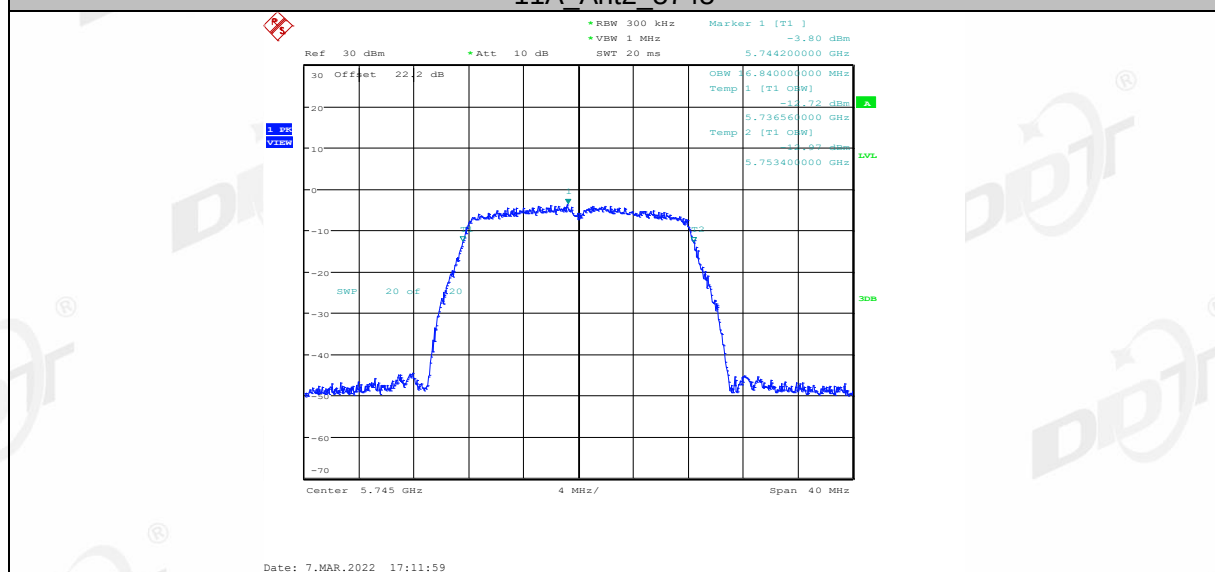
11A Ant2 5240



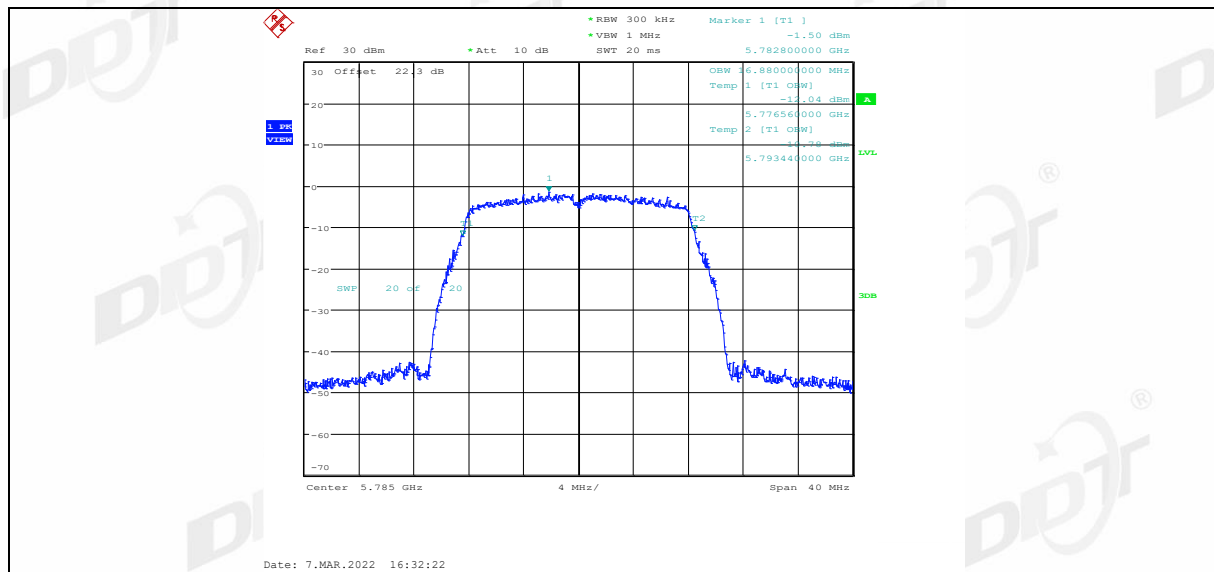
11A_Ant1_5745



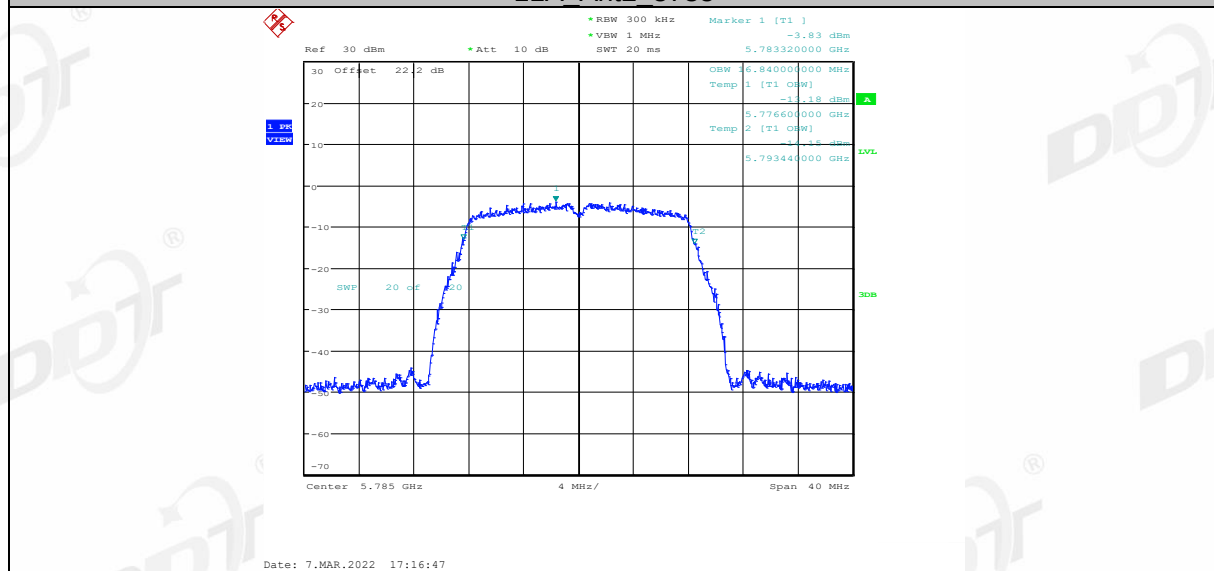
11A_Ant2_5745



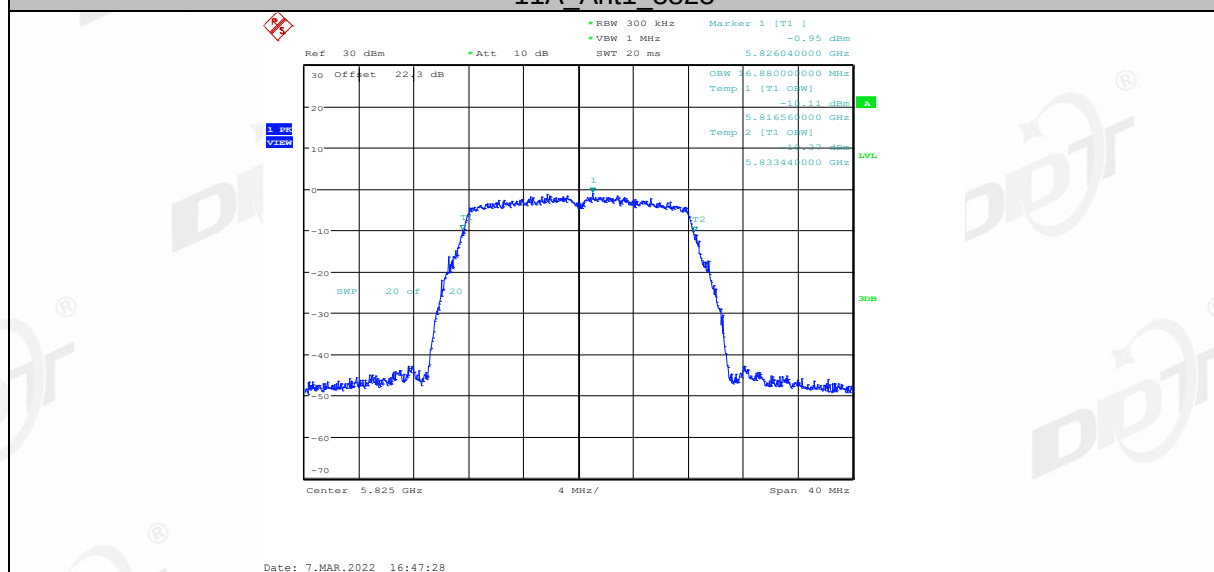
11A_Ant1_5785



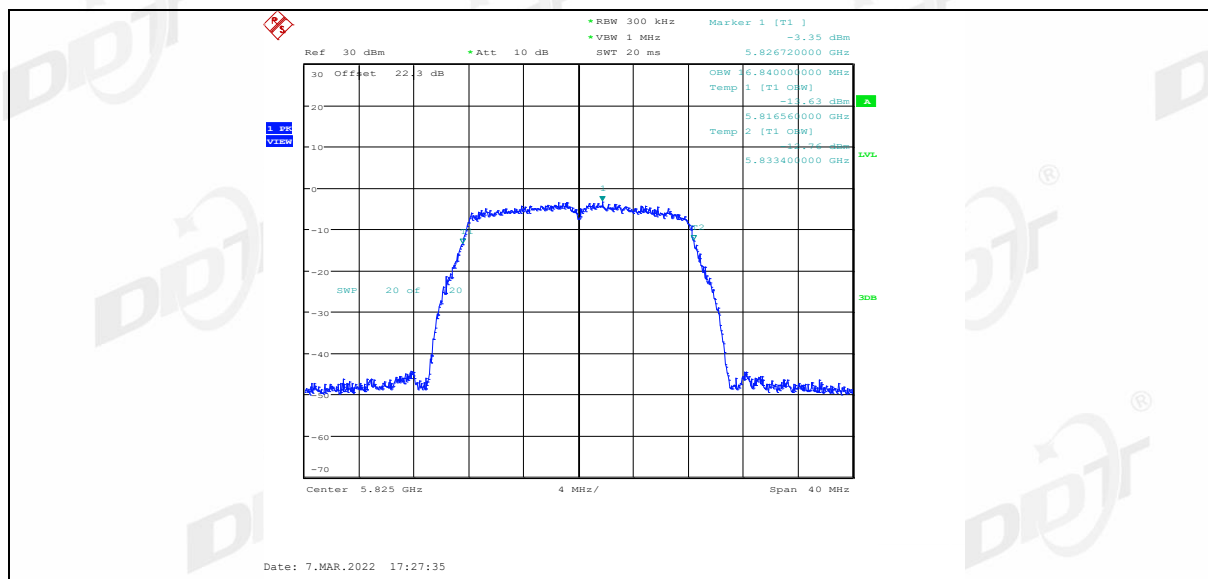
11A_Ant2_5785



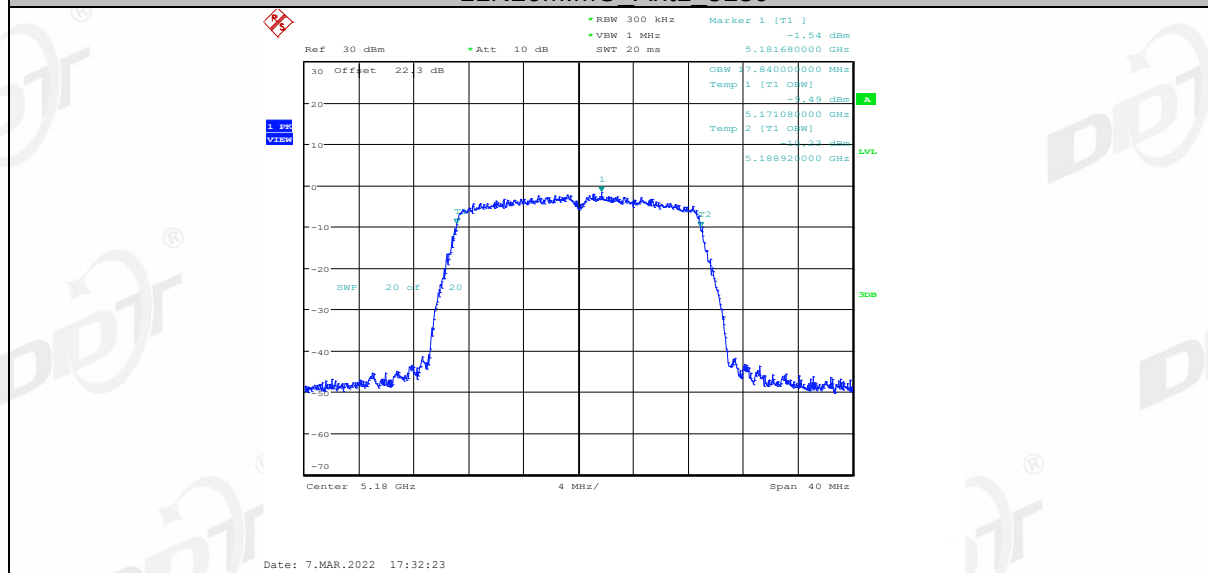
11A_Ant1_5825



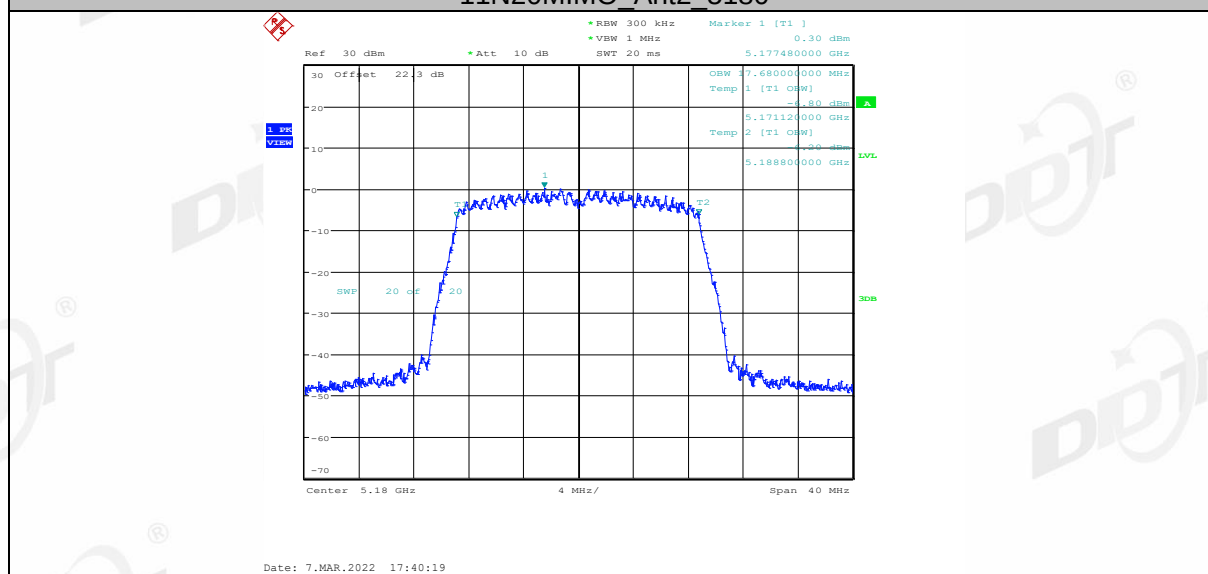
11A_Ant2_5825



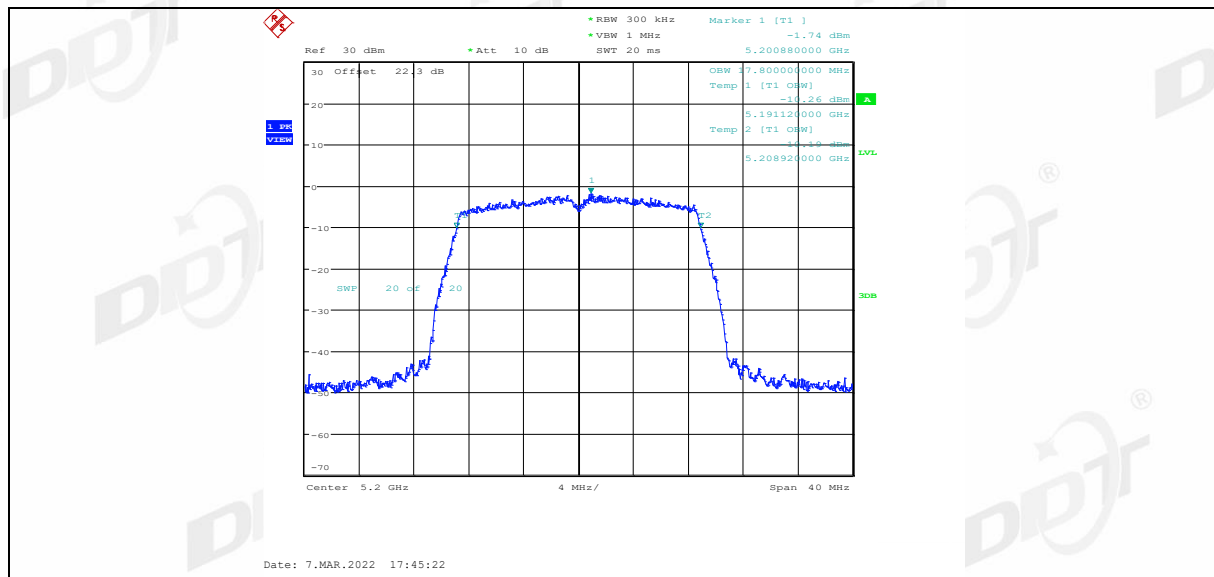
11N20MIMO Ant1 5180



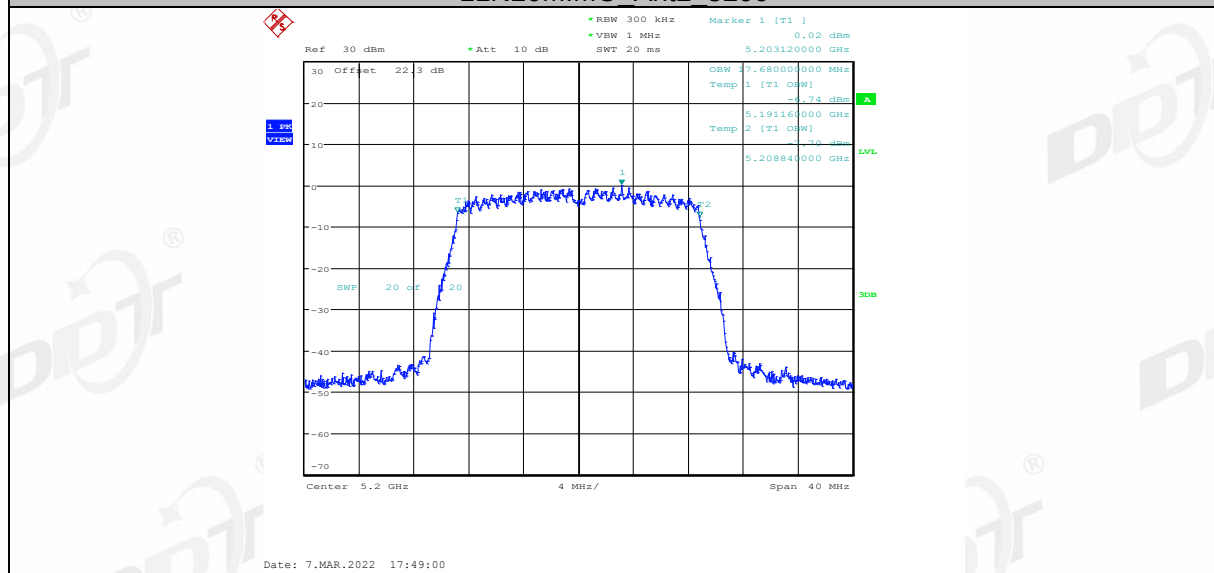
11N20MIMO Ant2 5180



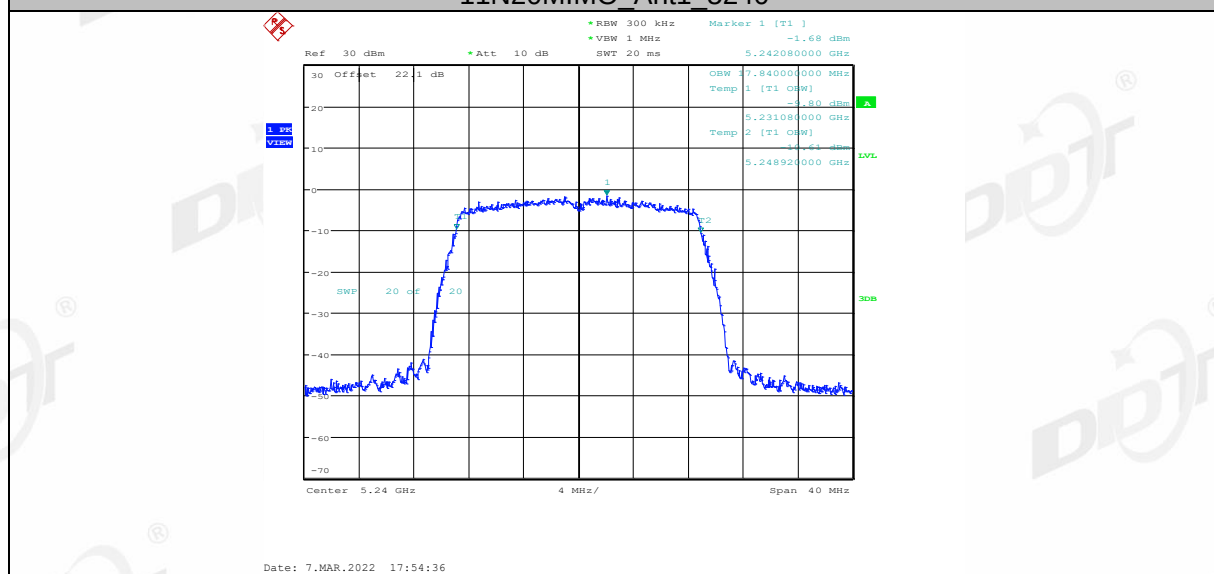
11N20MIMO Ant1 5200



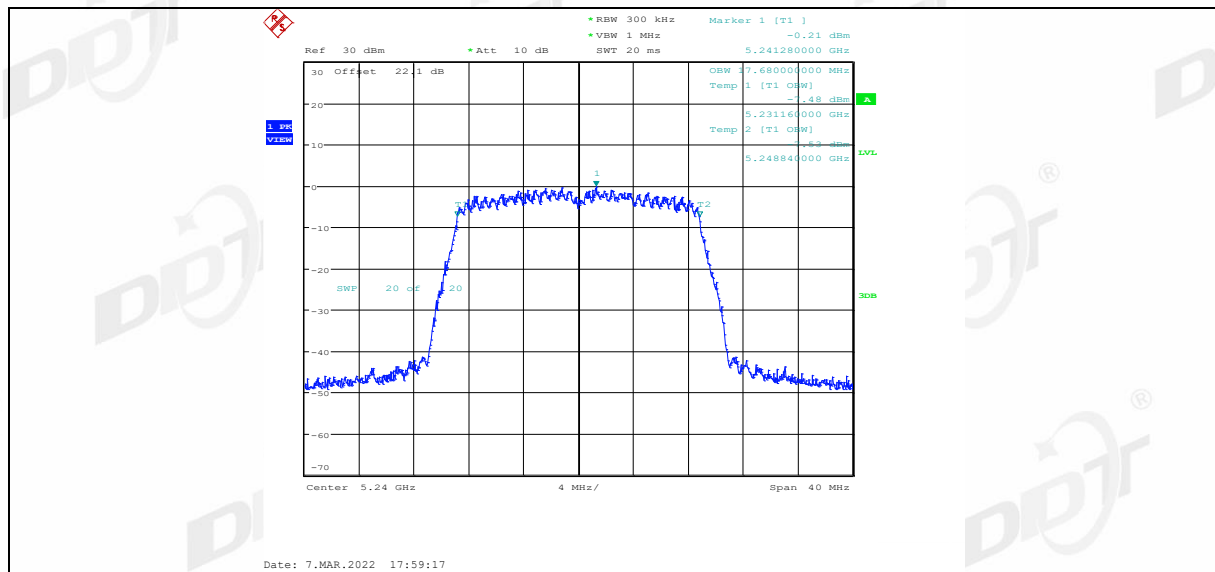
11N20MIMO_Ant2_5200



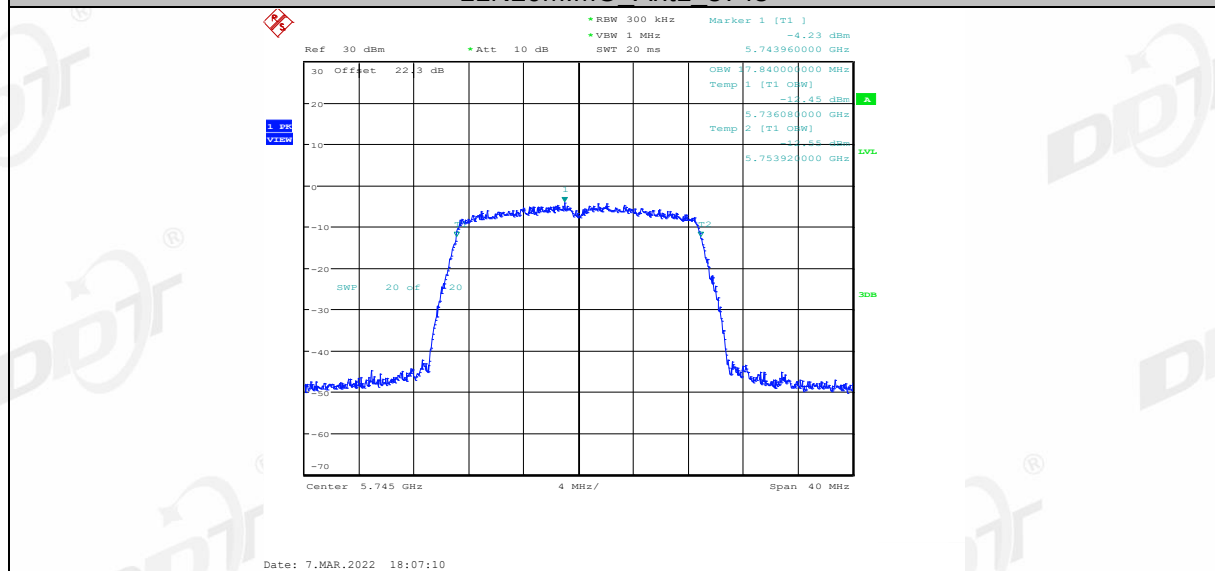
11N20MIMO_Ant1_5240



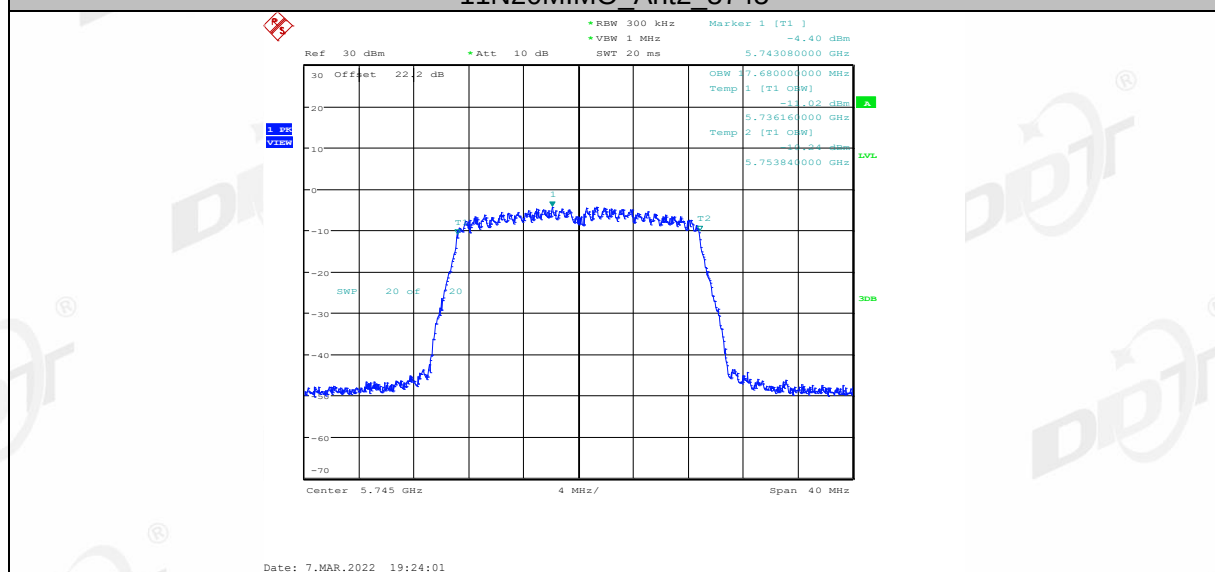
11N20MIMO_Ant2_5240



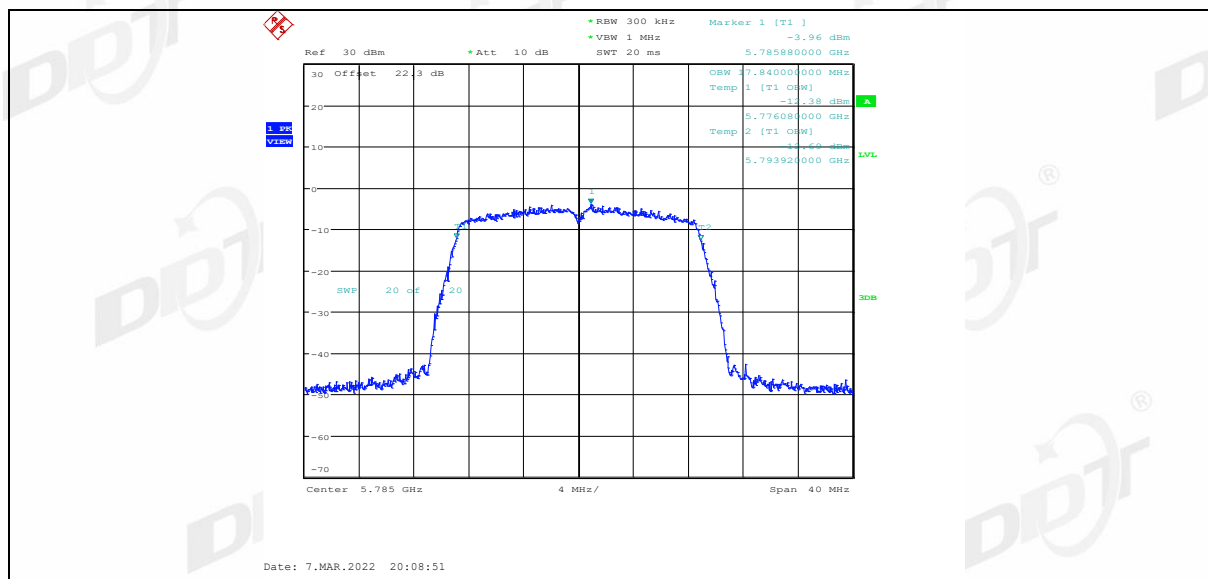
11N20MIMO_Ant1_5745



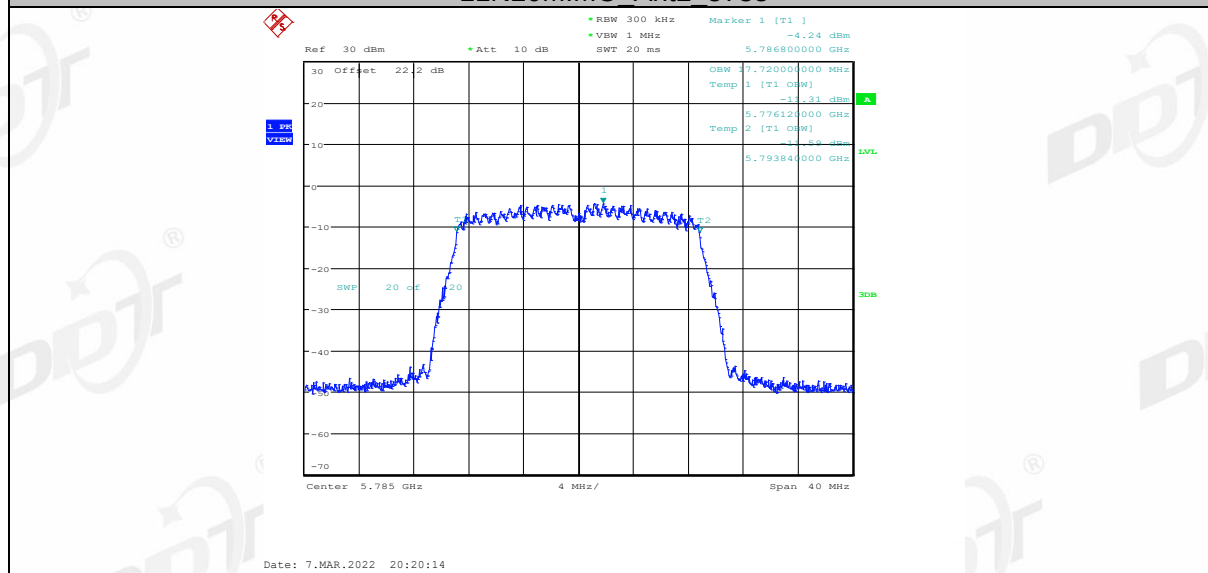
11N20MIMO_Ant2_5745



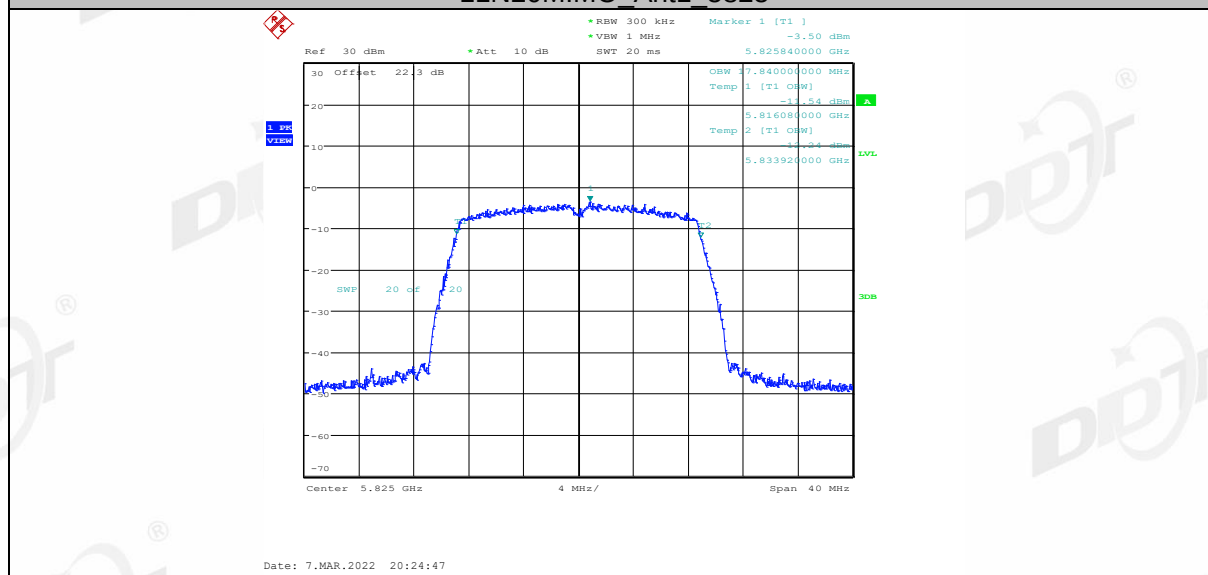
11N20MIMO_Ant1_5785



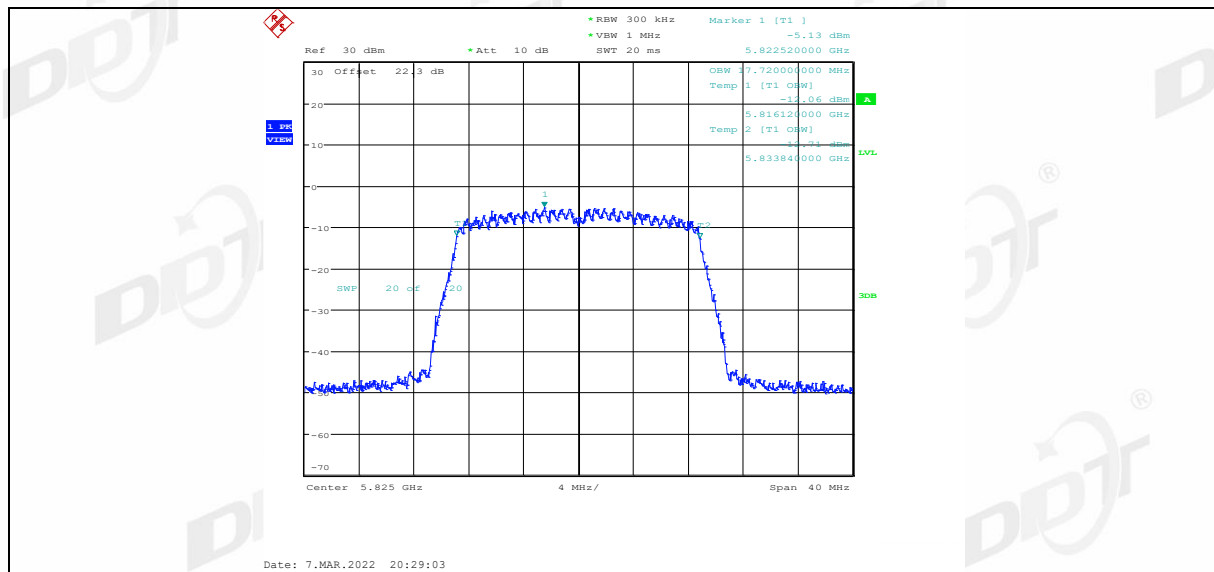
11N20MIMO_Ant2_5785



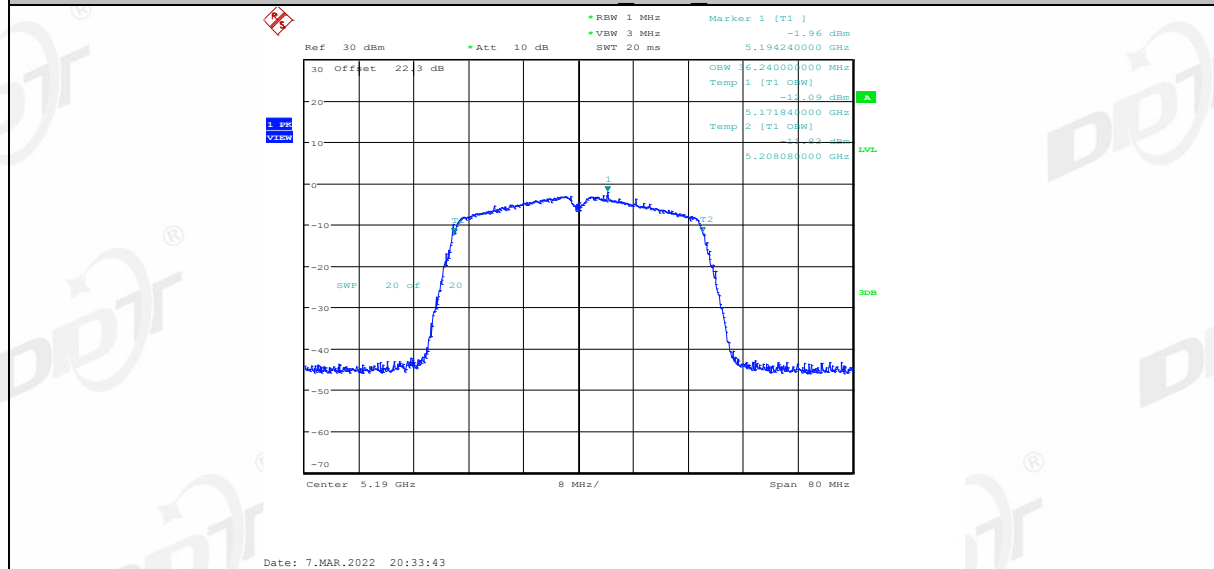
11N20MIMO_Ant1_5825



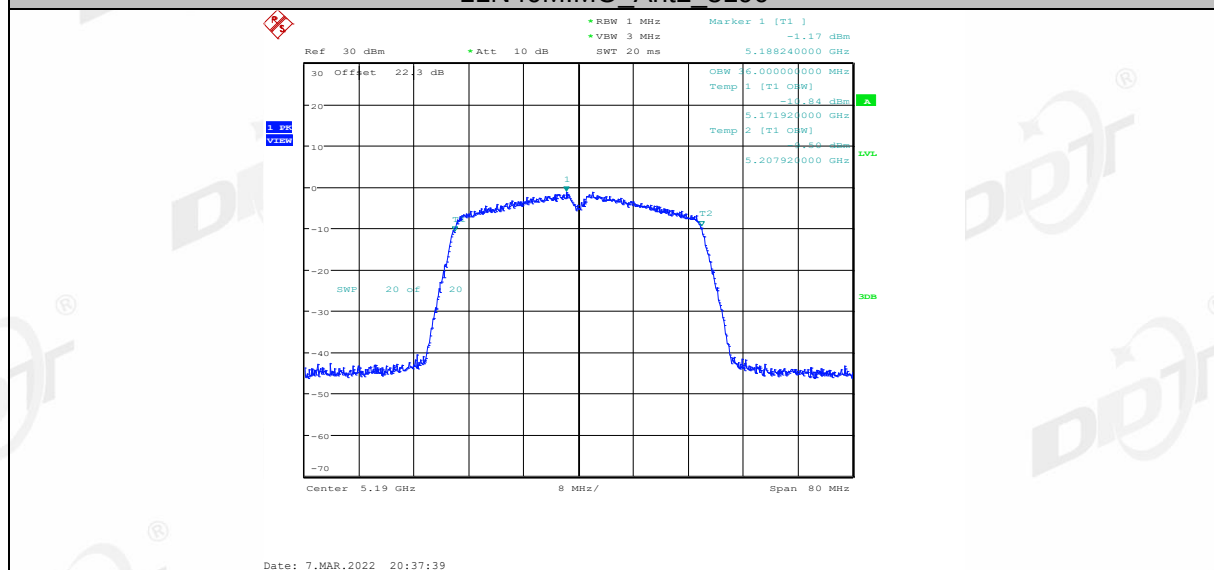
11N20MIMO_Ant2_5825



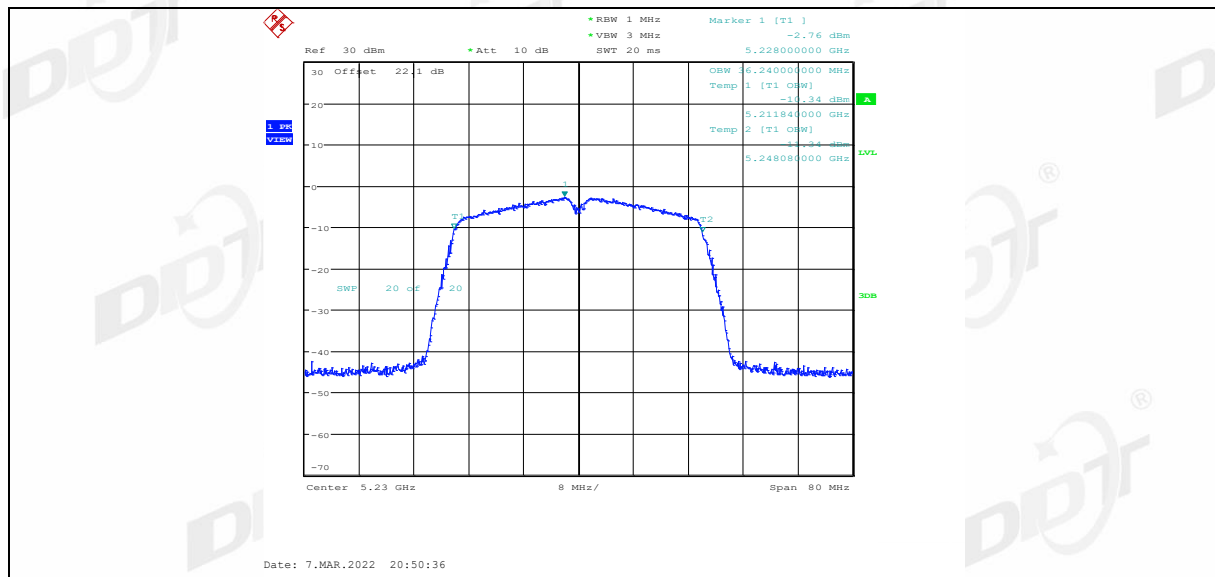
11N40MIMO Ant1 5190



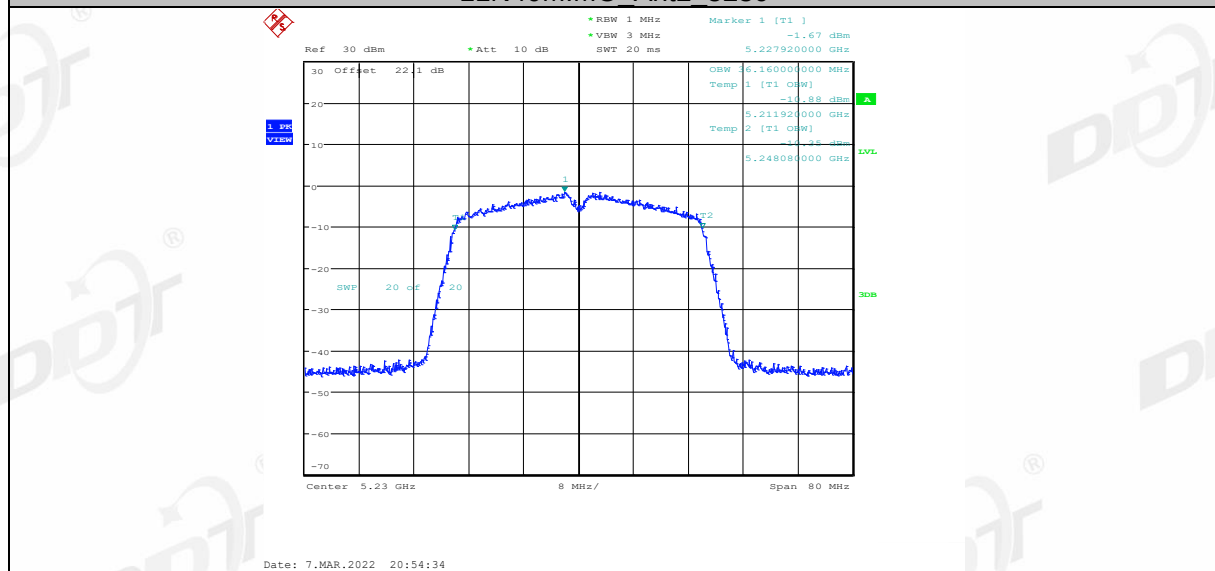
11N40MIMO Ant2 5190



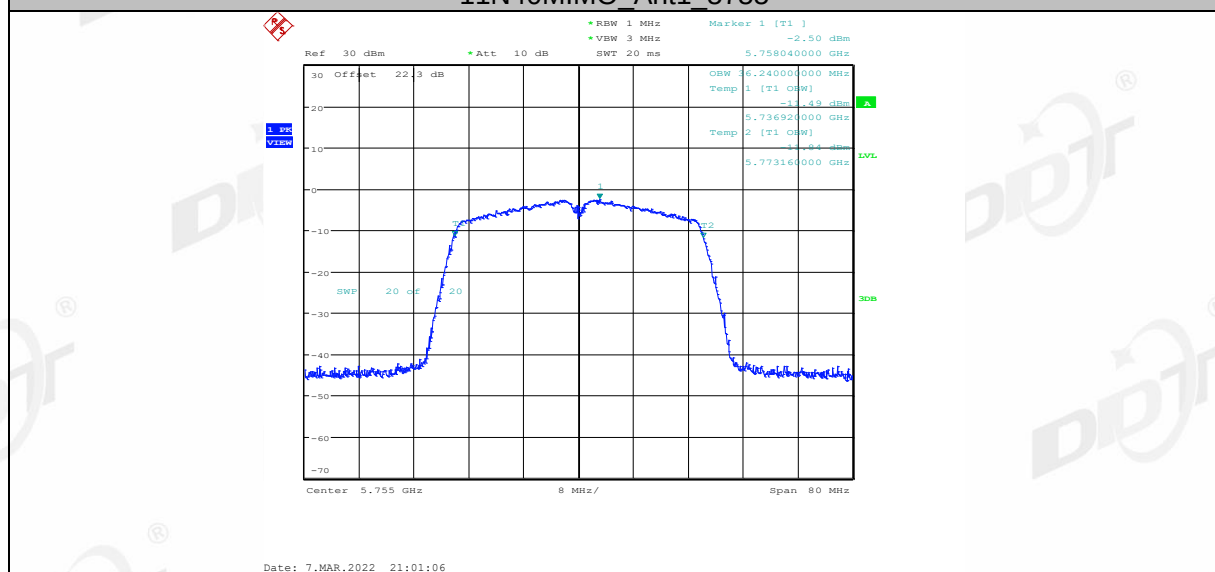
11N40MIMO Ant1 5230



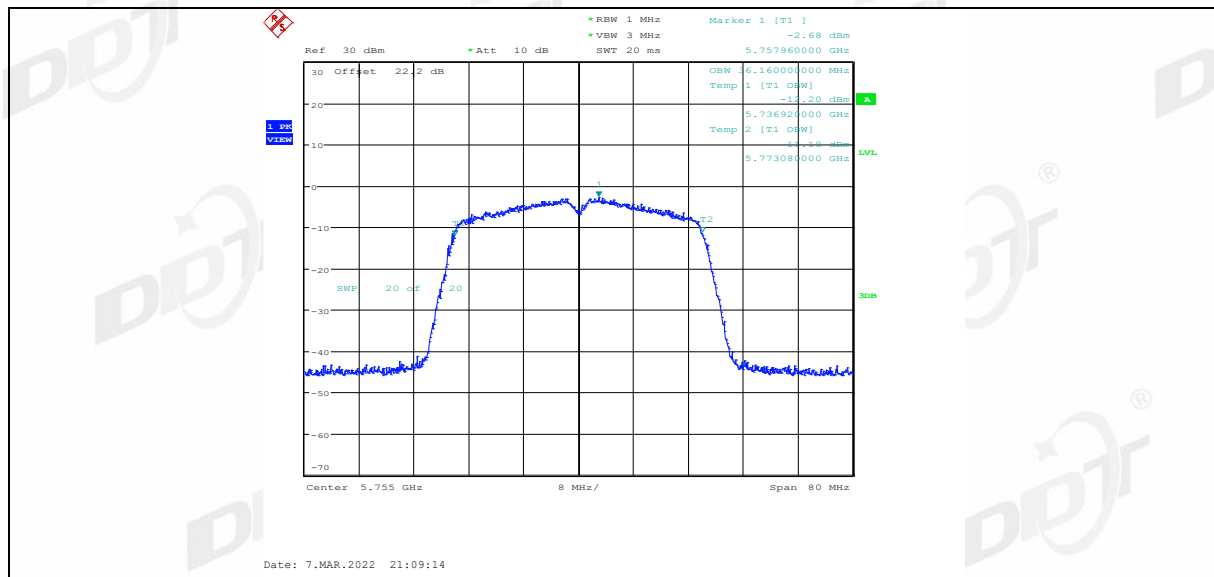
11N40MIMO_Ant2_5230



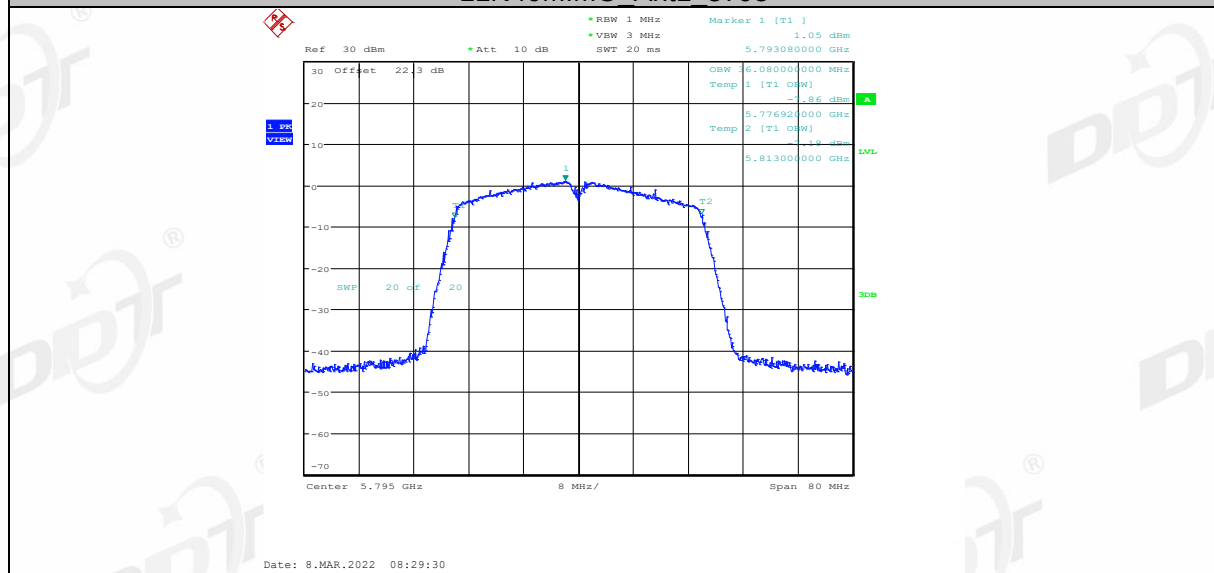
11N40MIMO_Ant1_5755



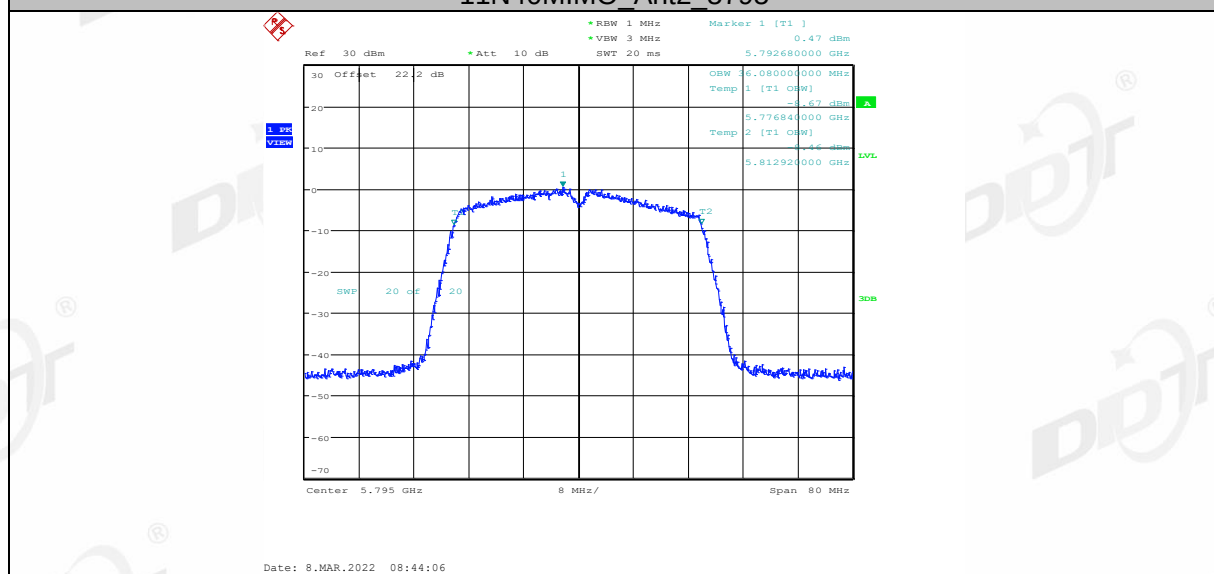
11N40MIMO_Ant2_5755



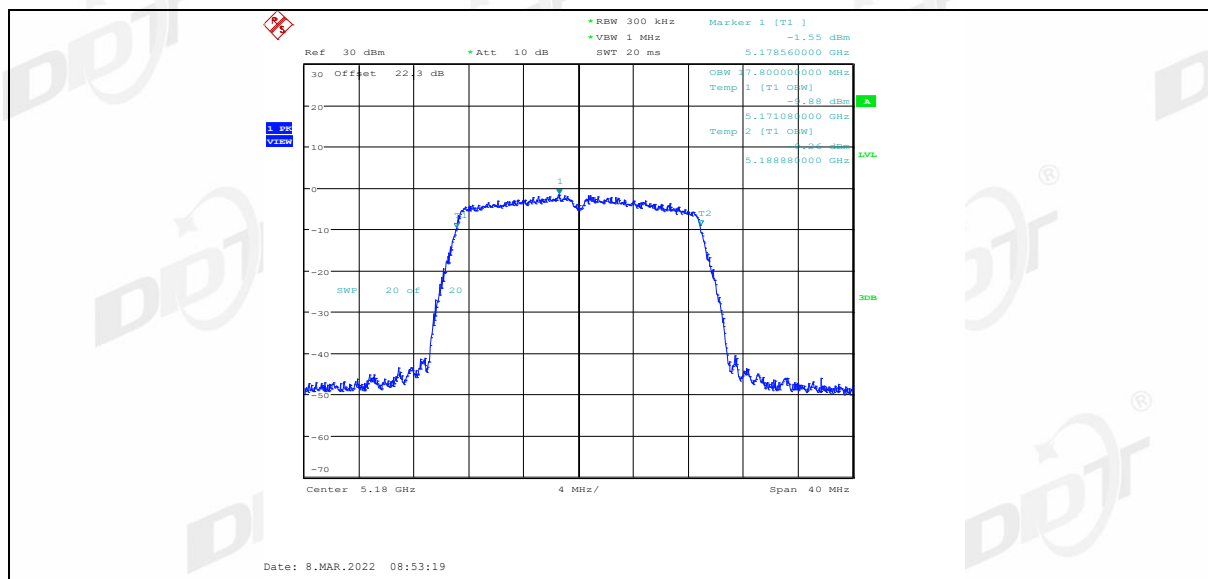
11N40MIMO_Ant1_5795



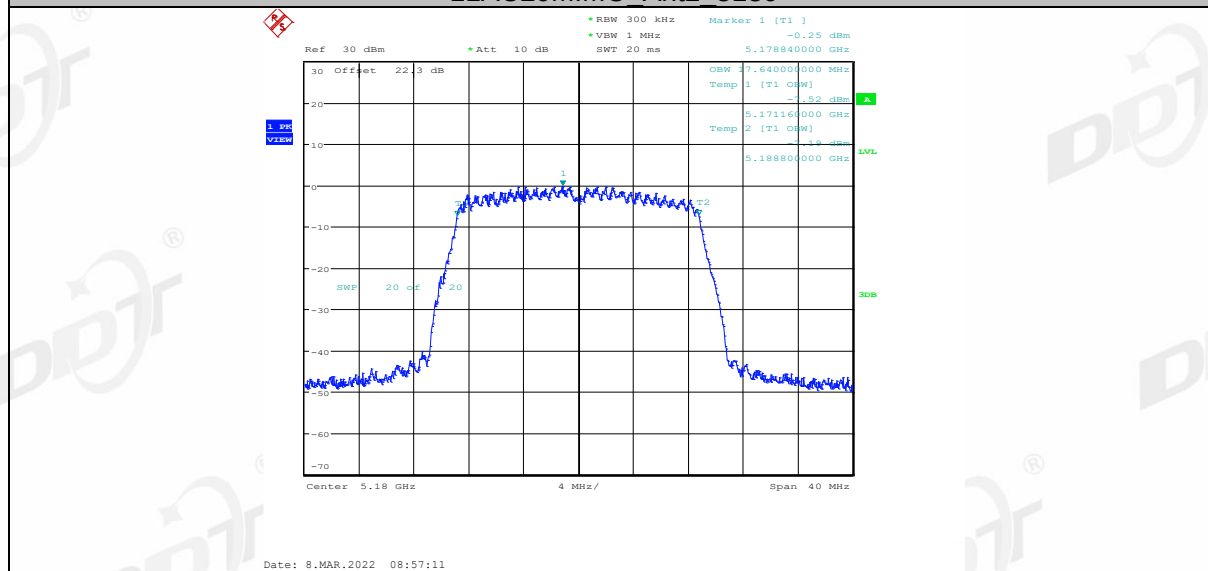
11N40MIMO_Ant2_5795



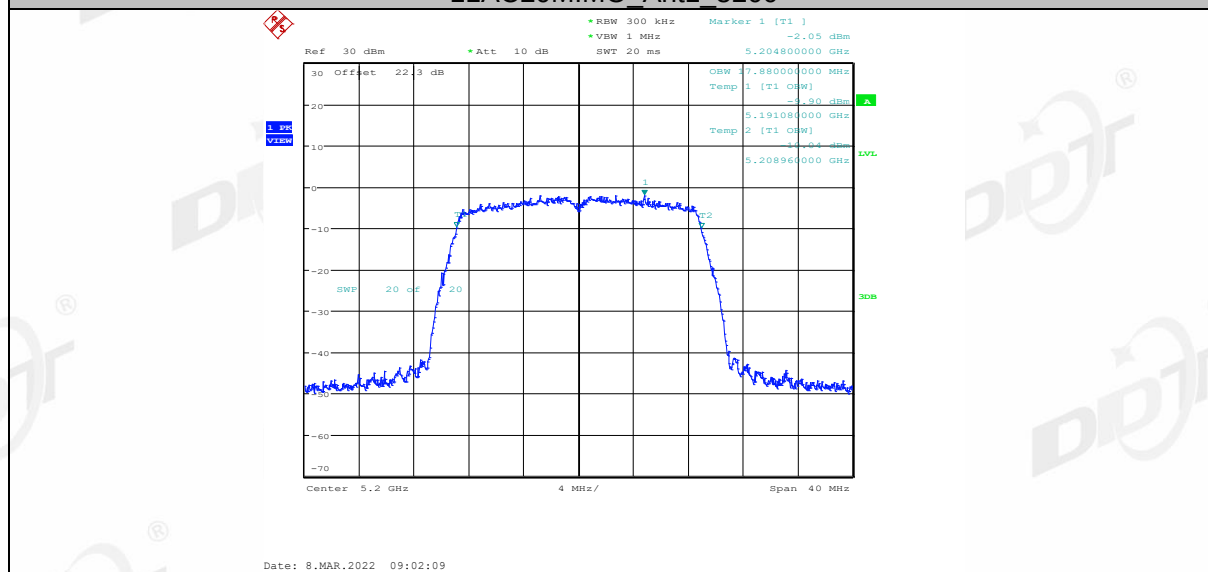
11AC20MIMO_Ant1_5180



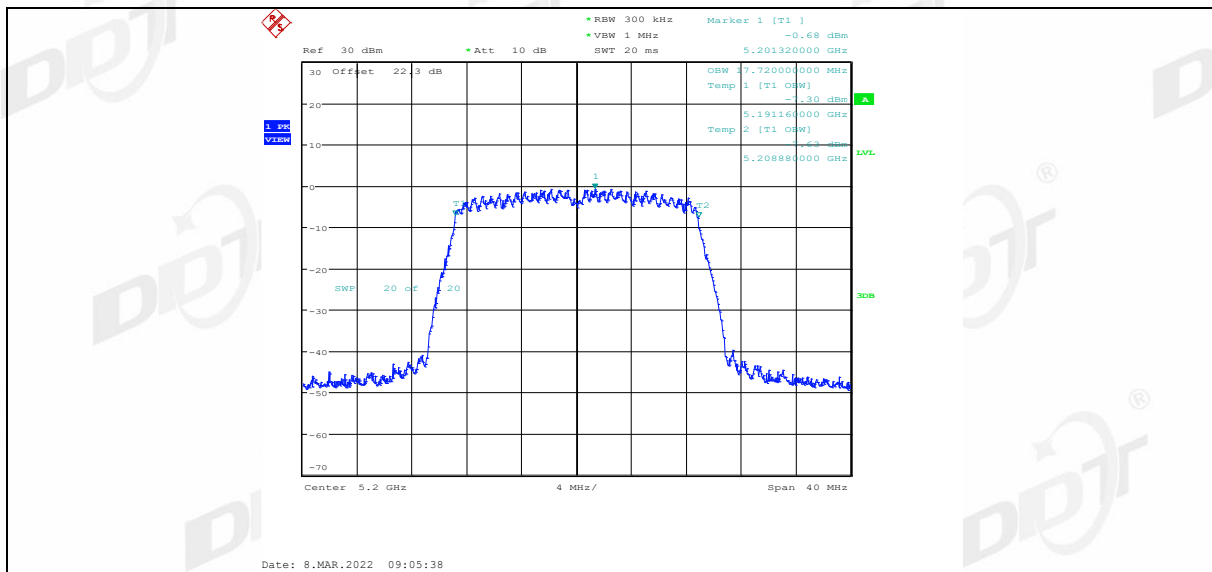
11AC20MIMO_Ant2_5180



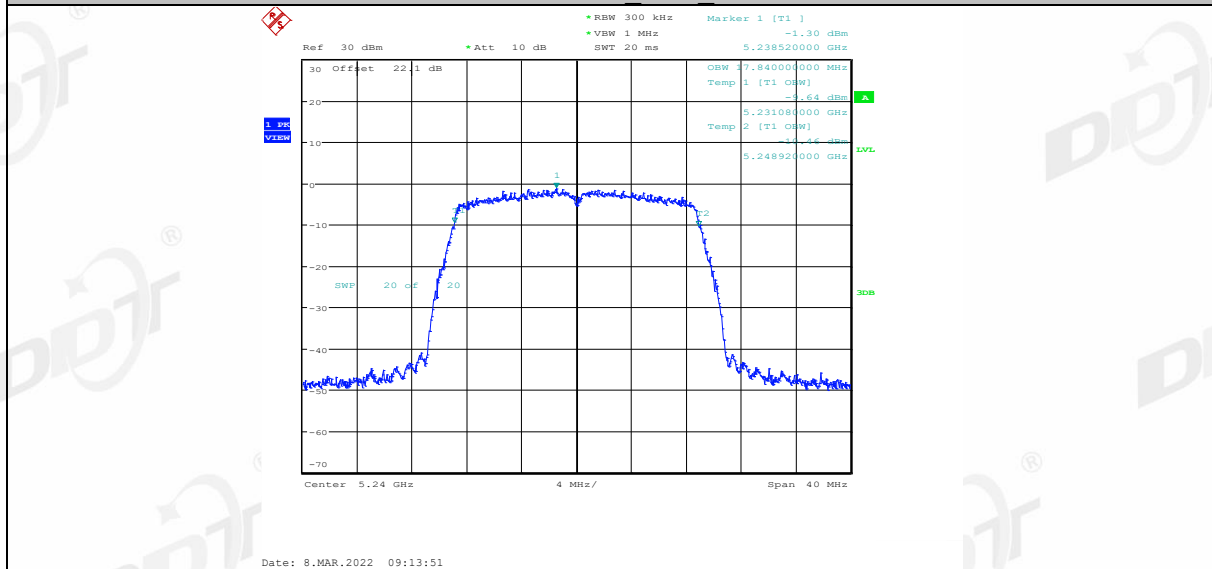
11AC20MIMO_Ant1_5200



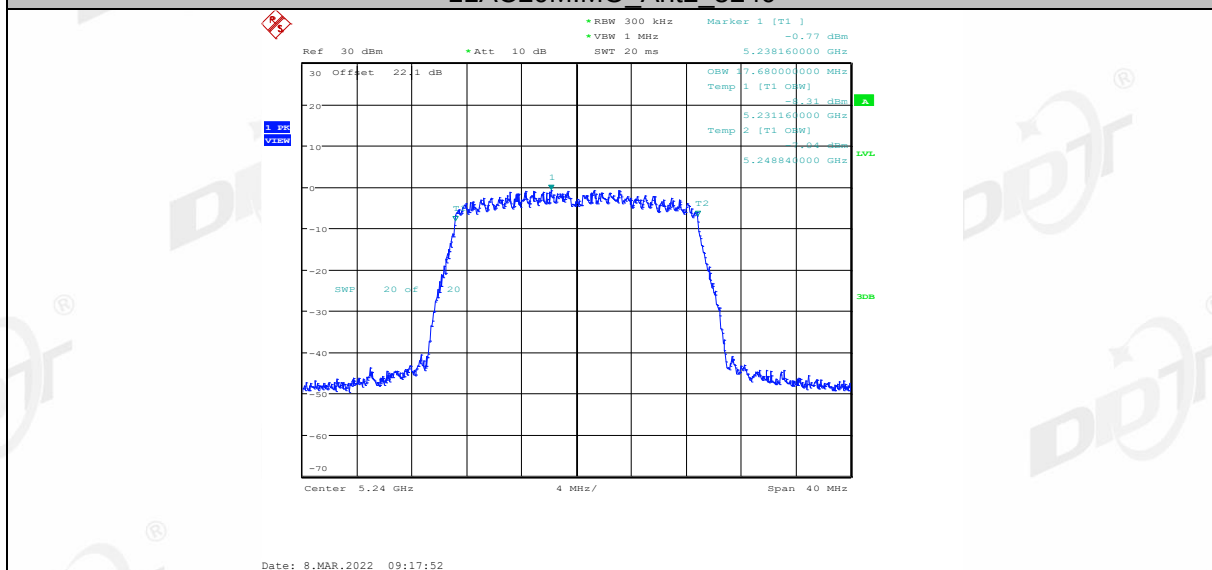
11AC20MIMO_Ant2_5200



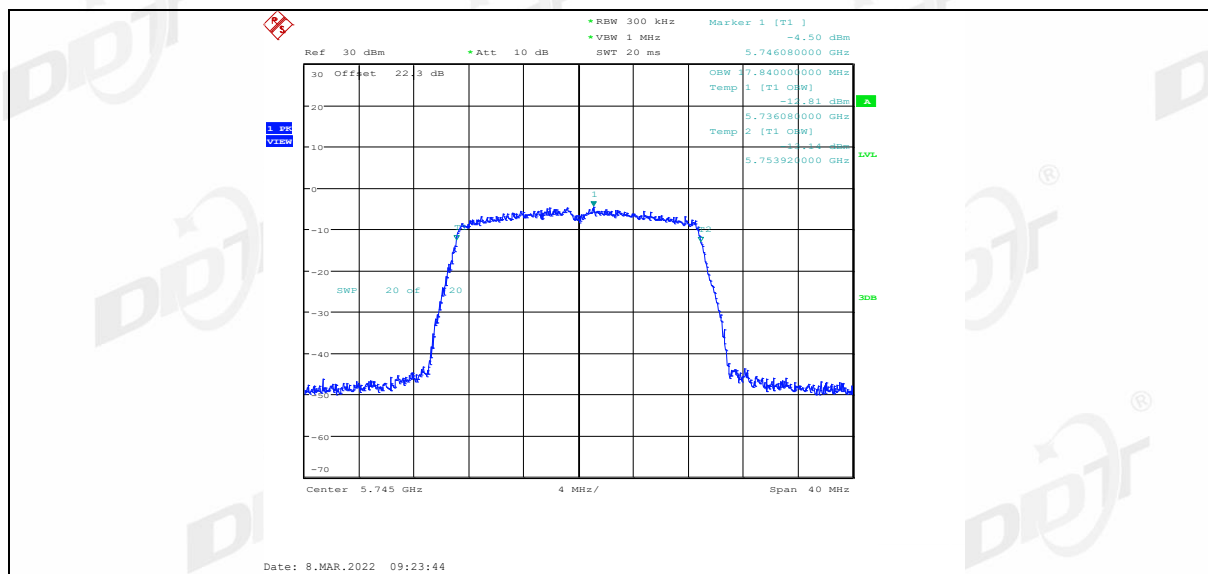
11AC20MIMO_Ant1_5240



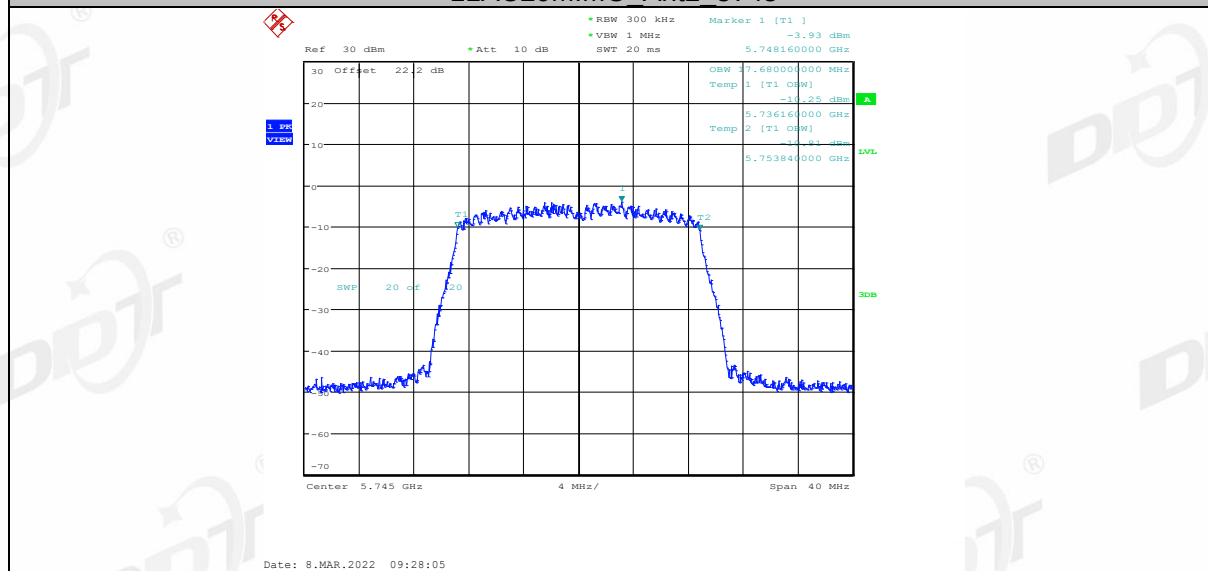
11AC20MIMO_Ant2_5240



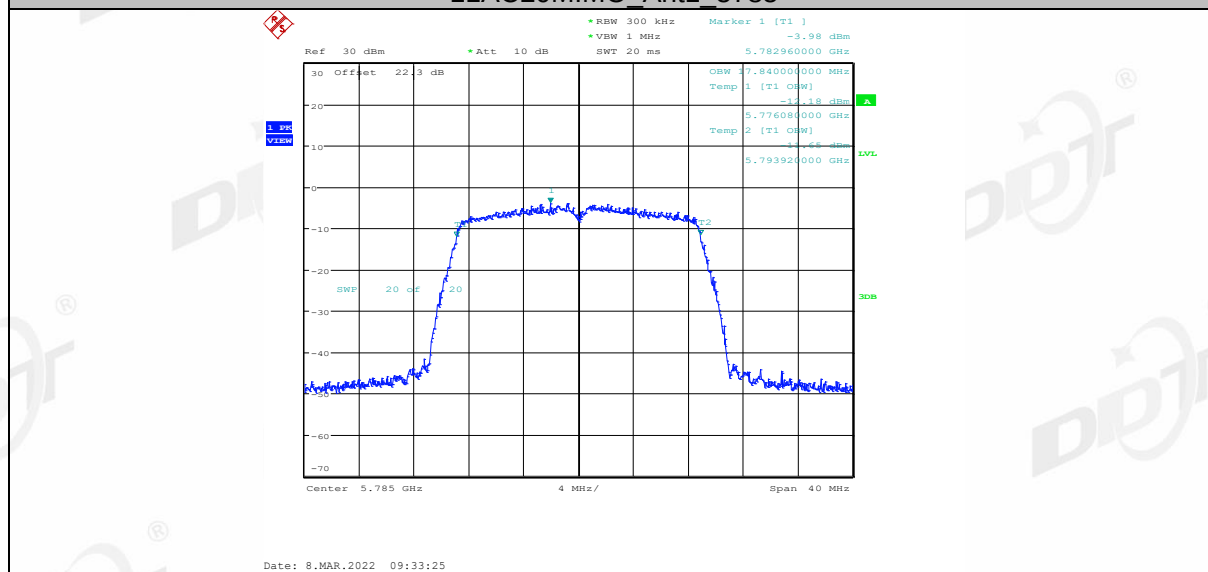
11AC20MIMO_Ant1_5745



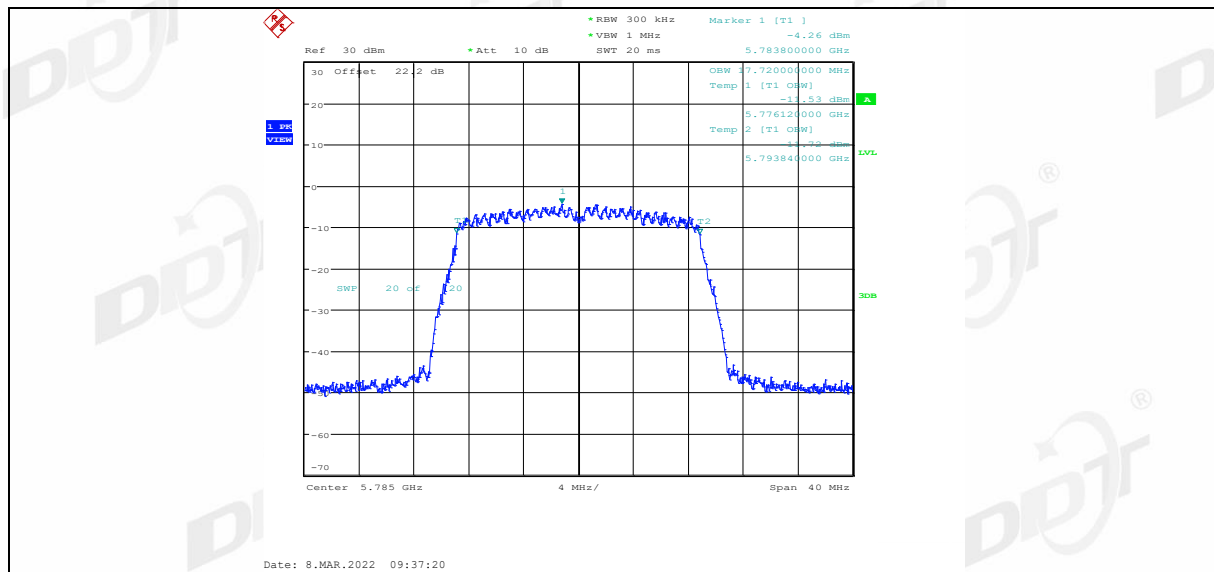
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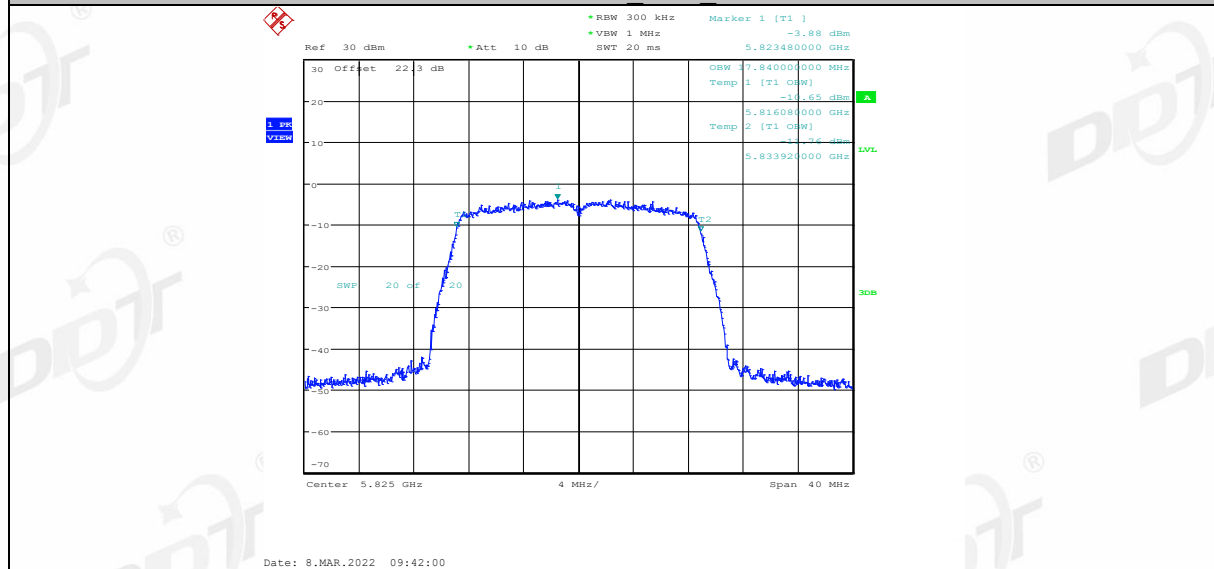
11AC20MIMO_Ant1_5785



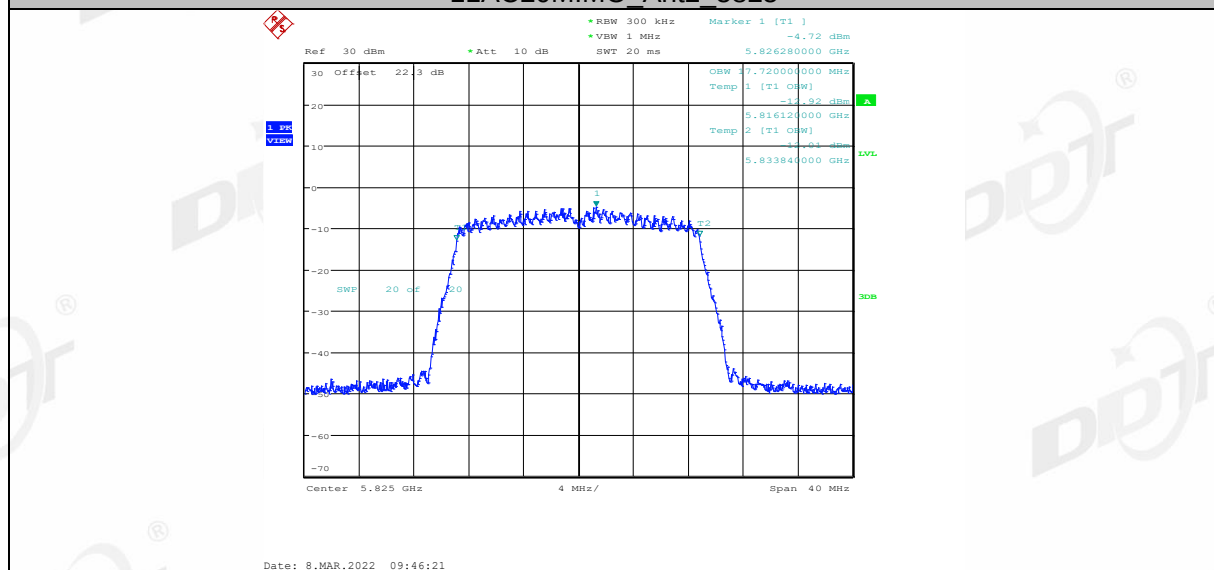
11AC20MIMO_Ant2_5785



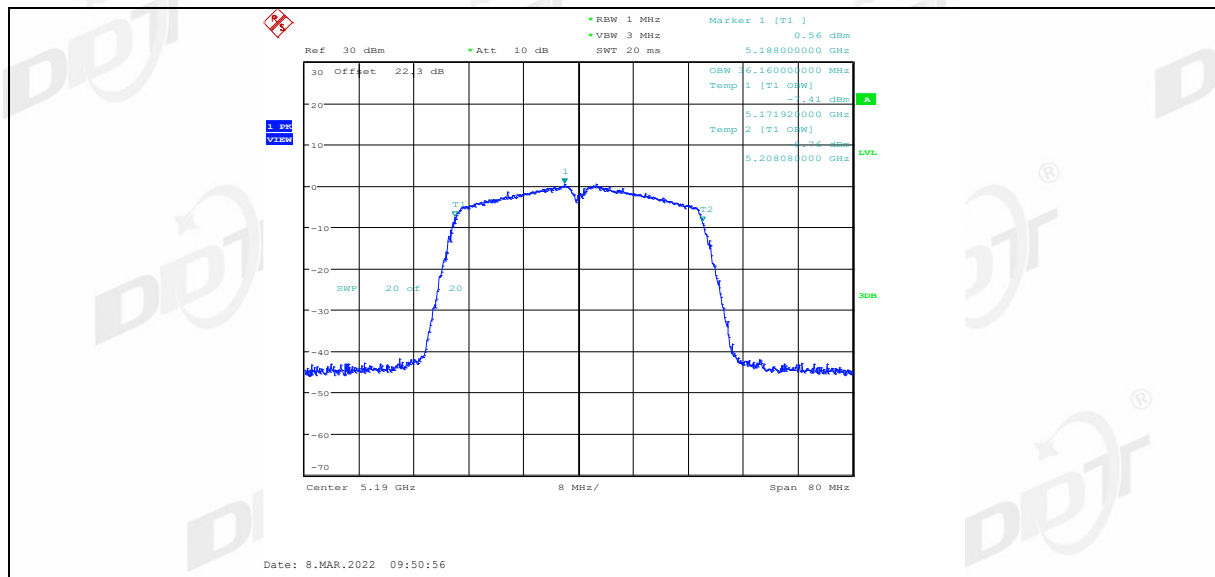
11AC20MIMO_Ant1_5825



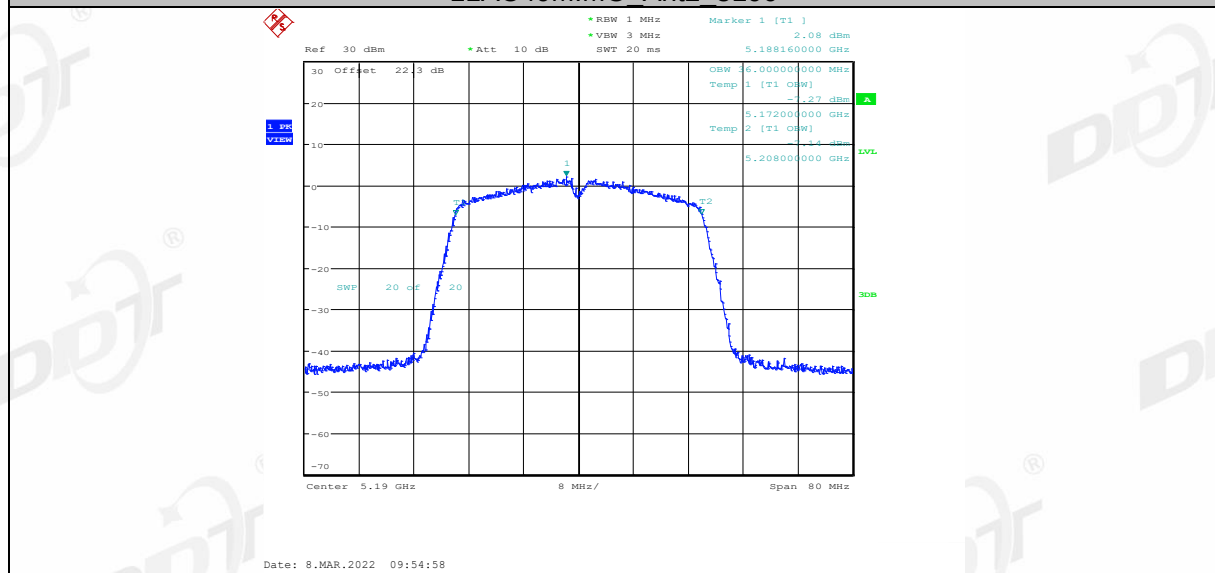
11AC20MIMO_Ant2_5825



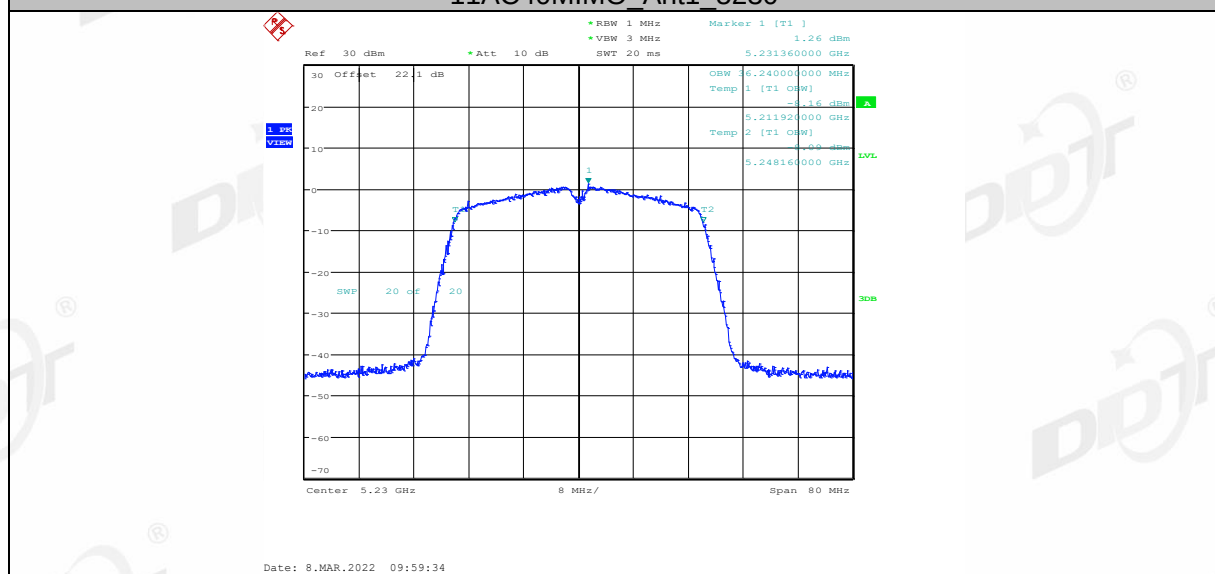
11AC40MIMO_Ant1_5190



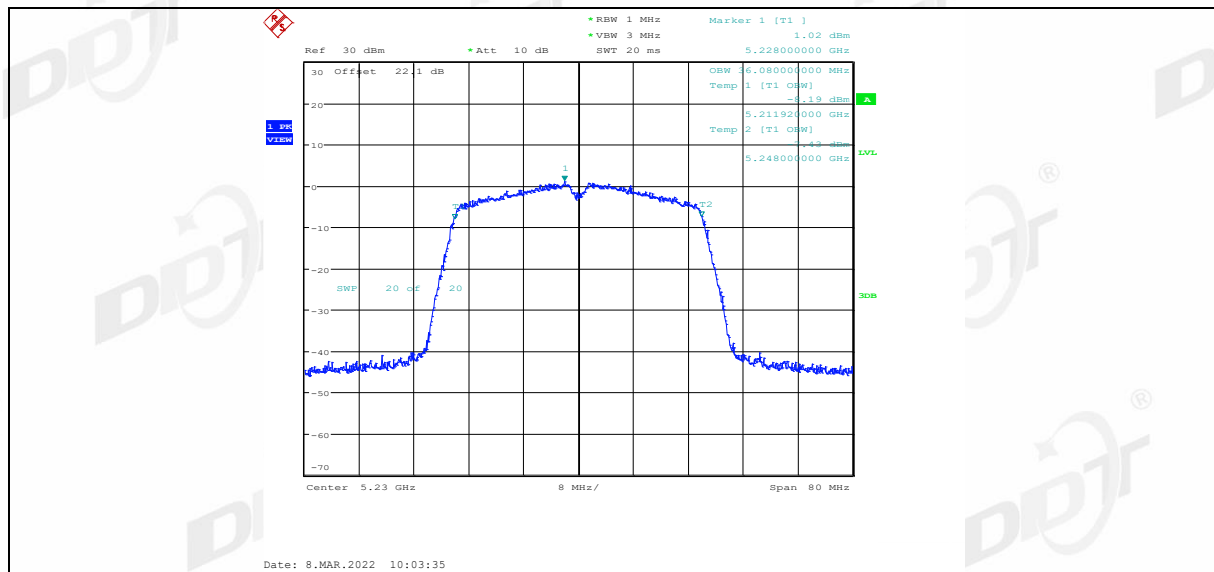
11AC40MIMO_Ant2_5190



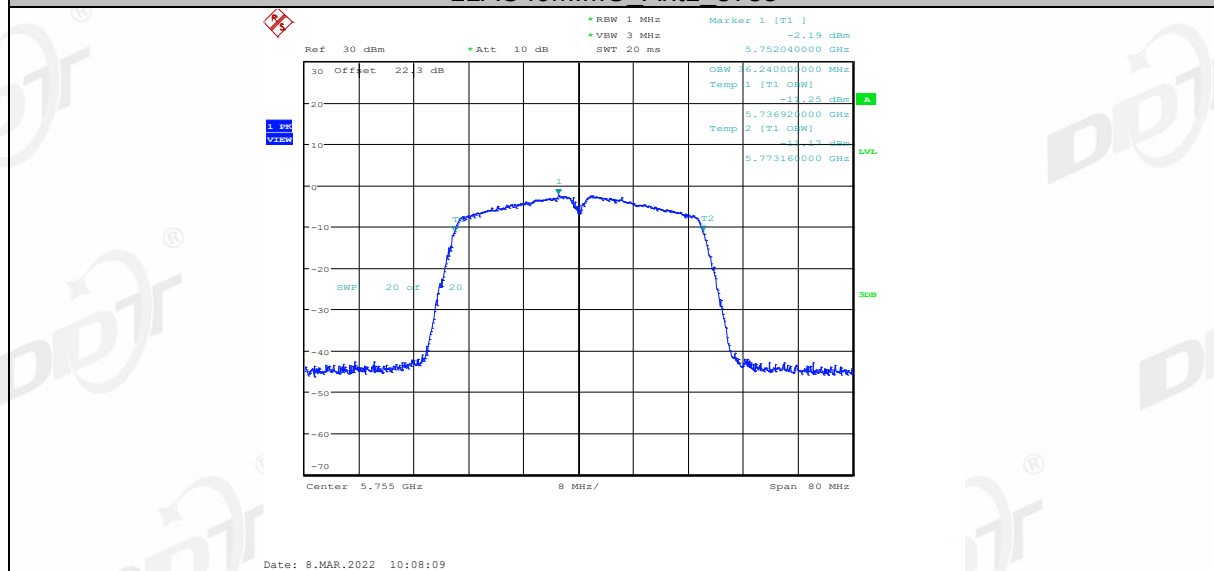
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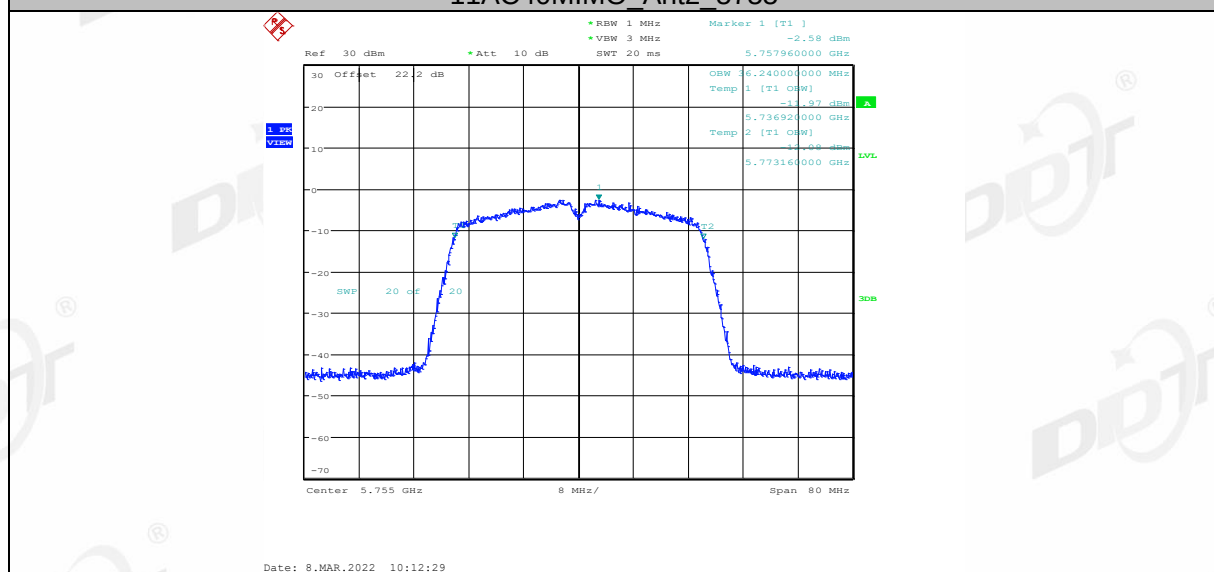
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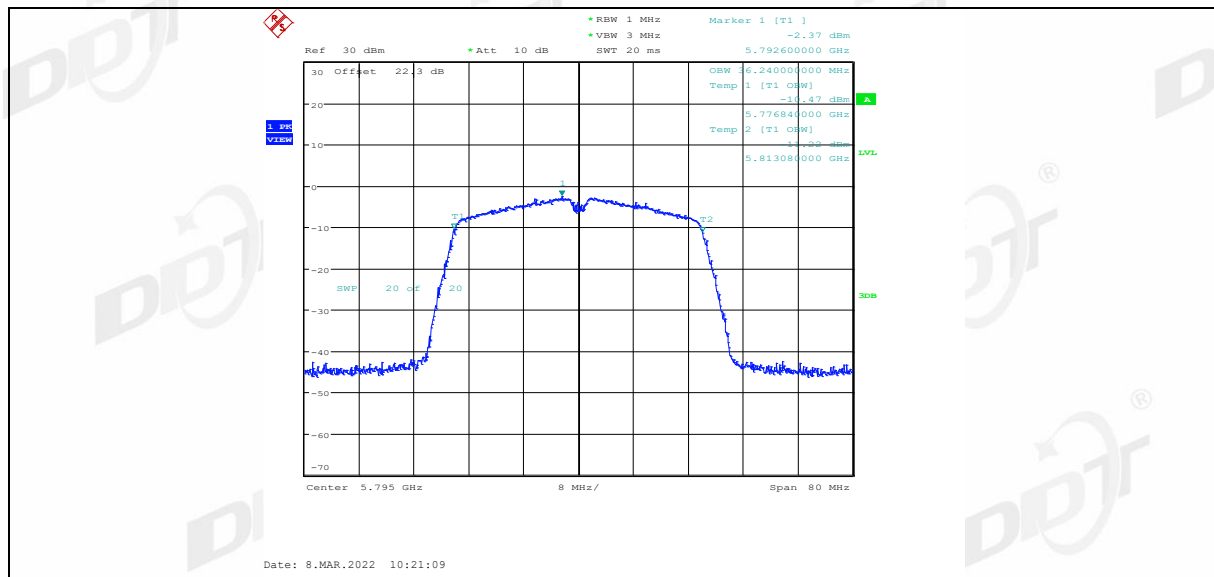
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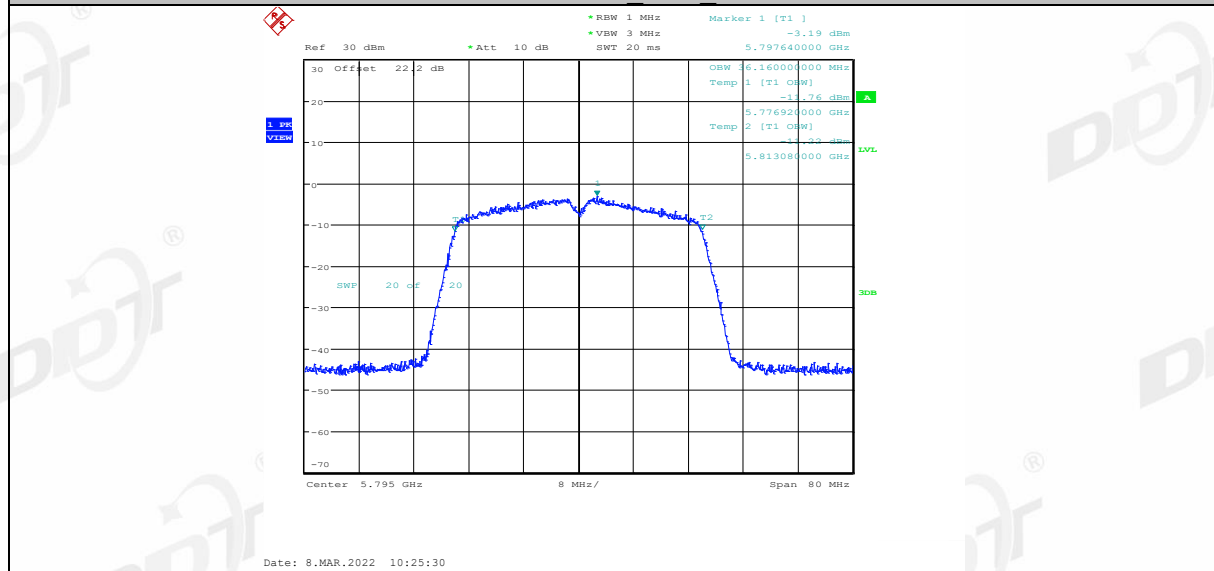
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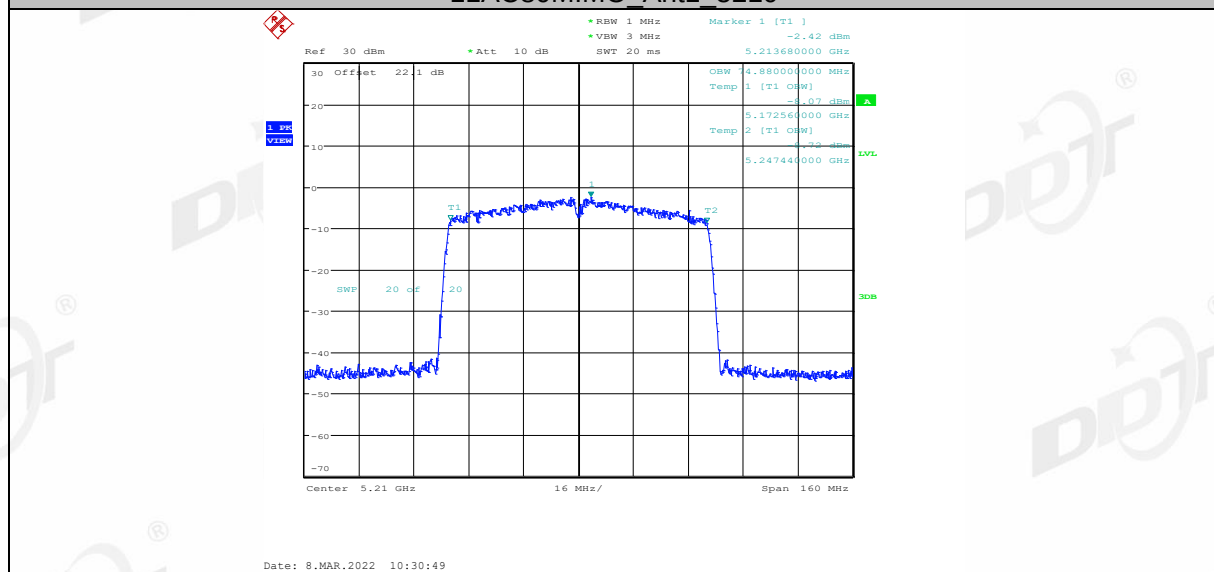
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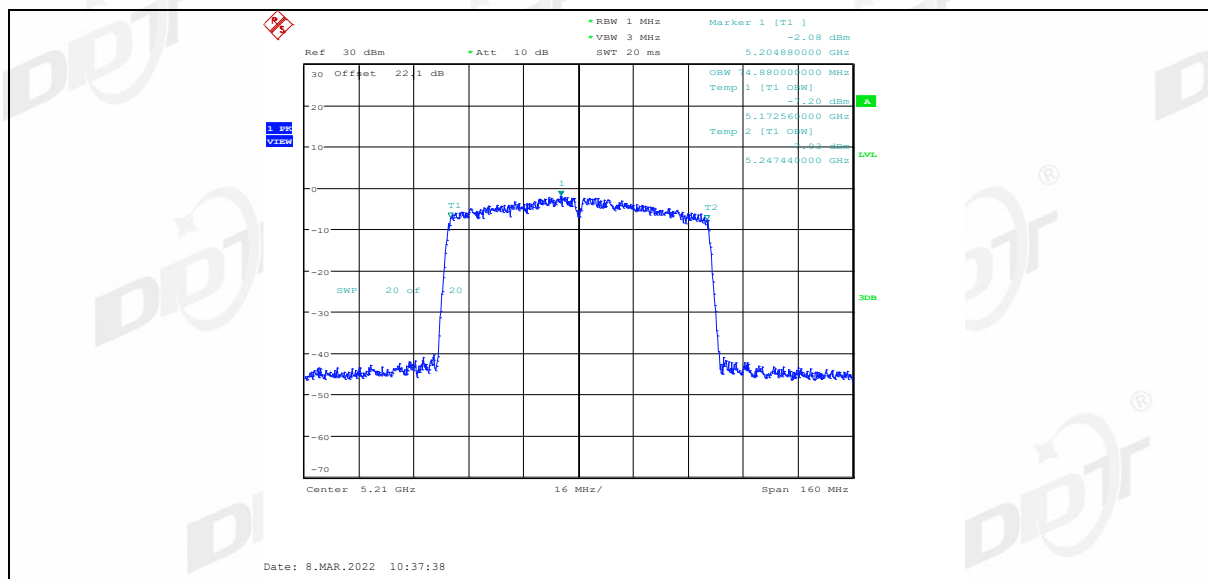
11AC40MIMO Ant2 5795



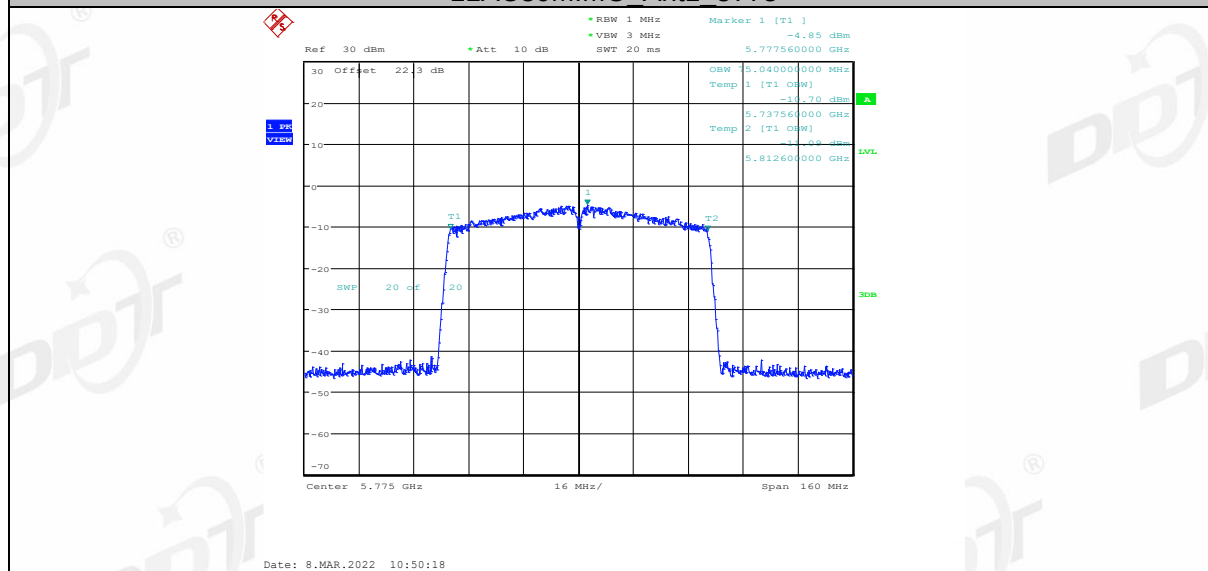
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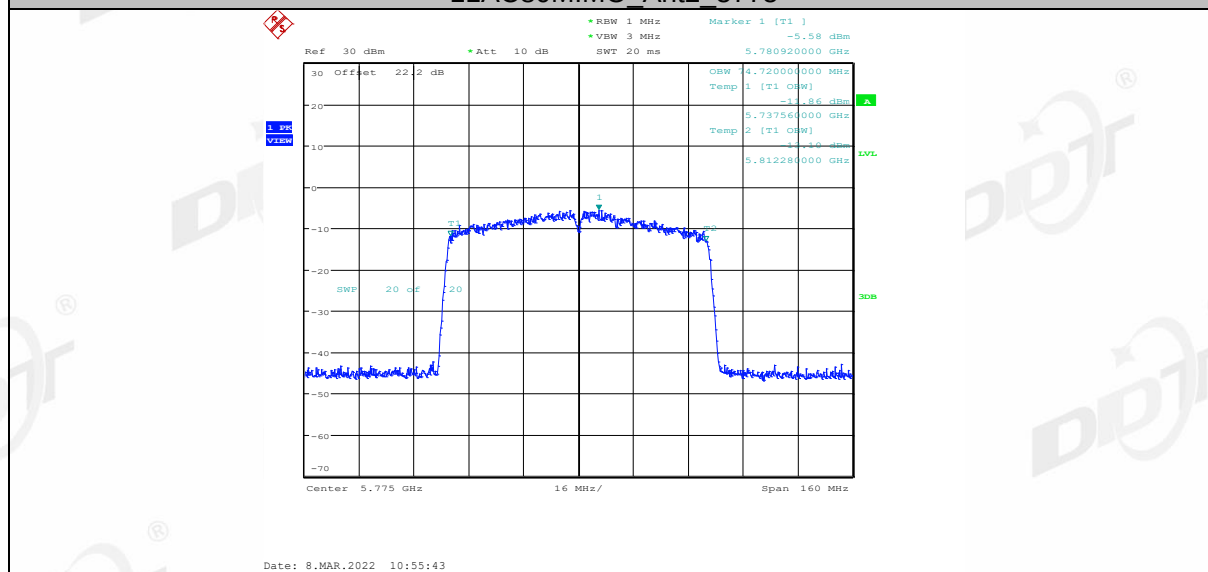
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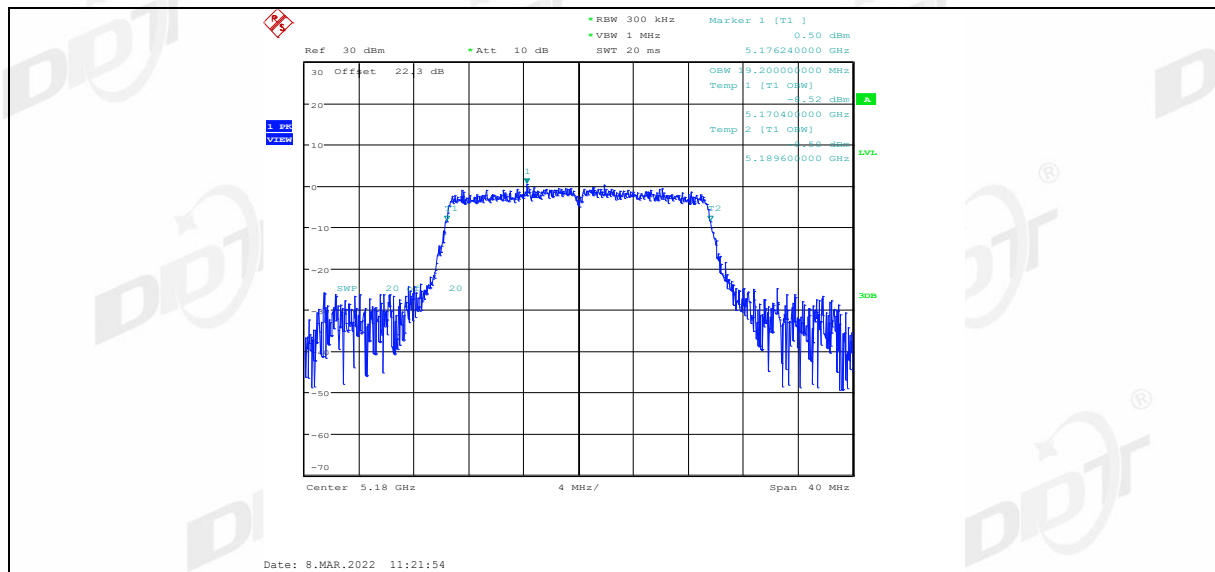
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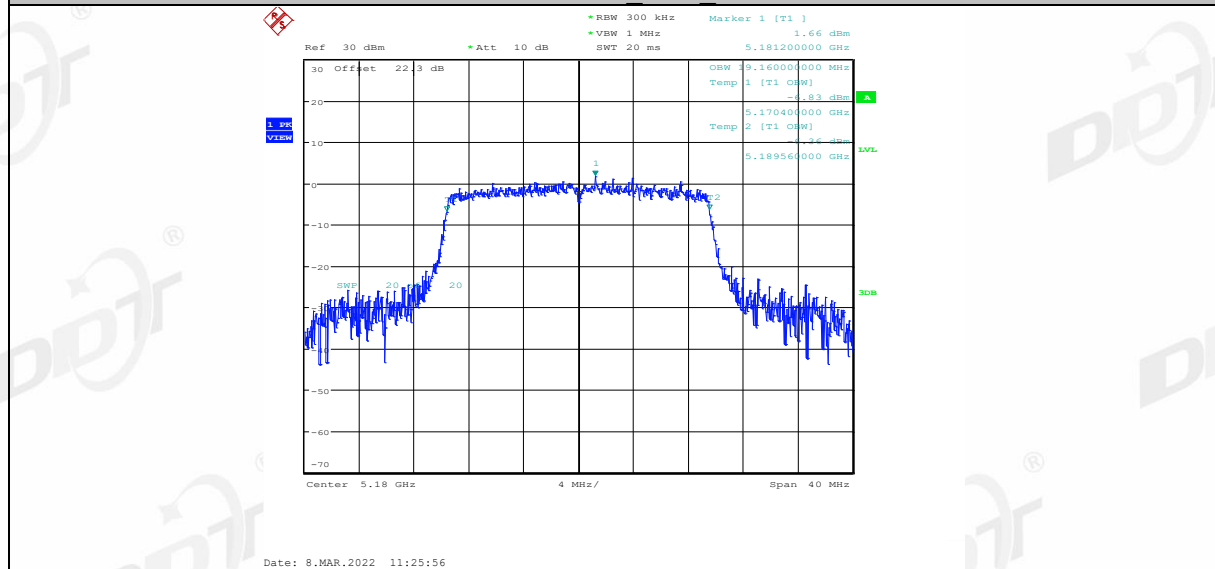
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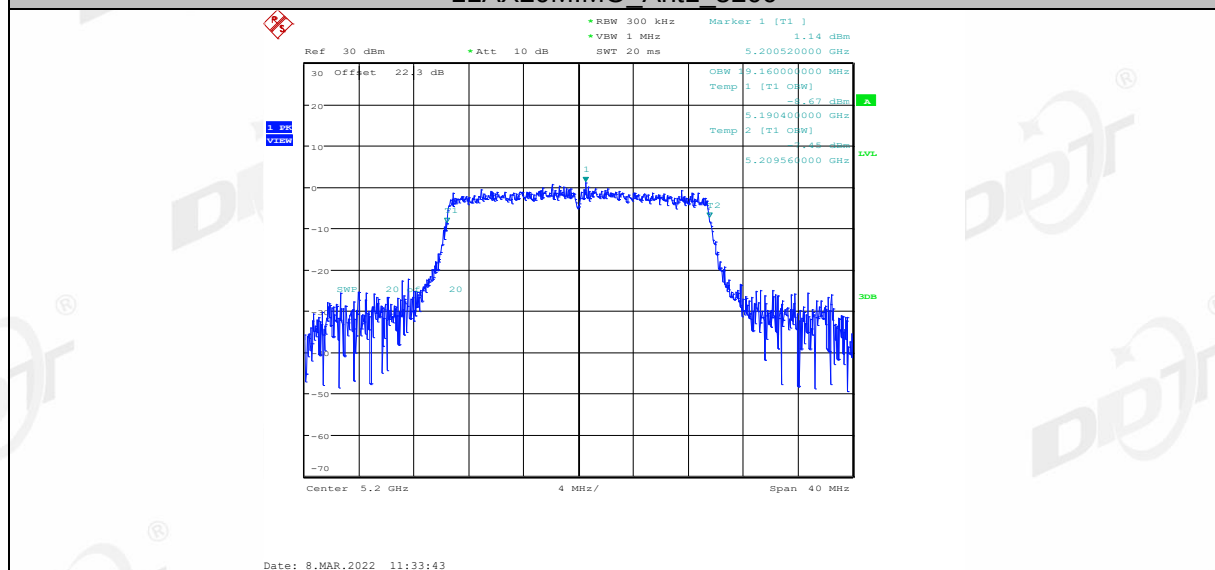
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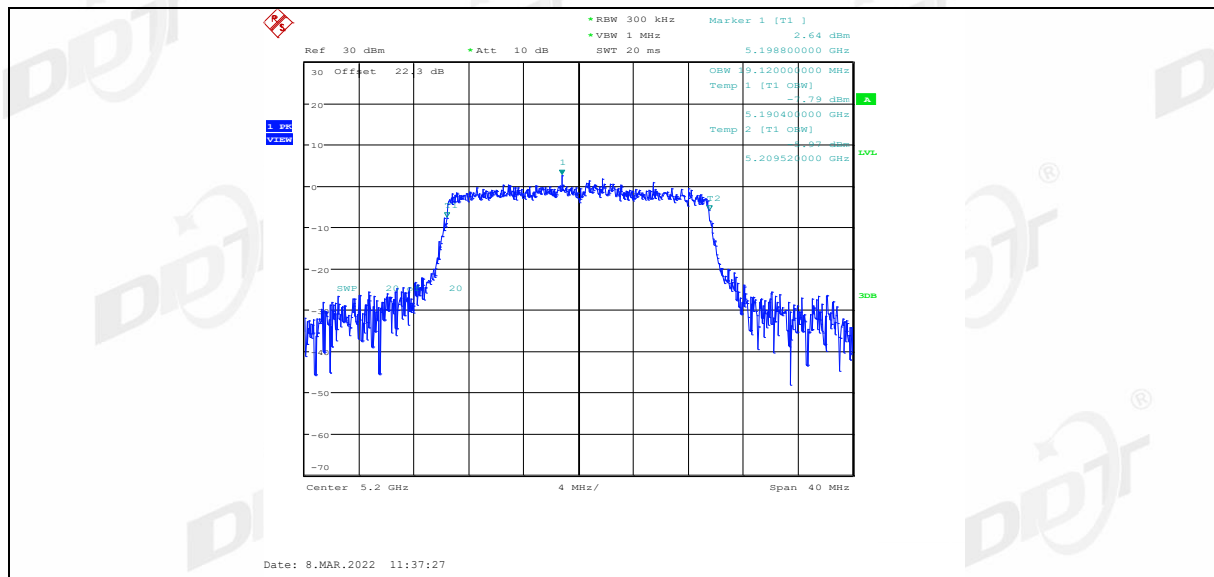
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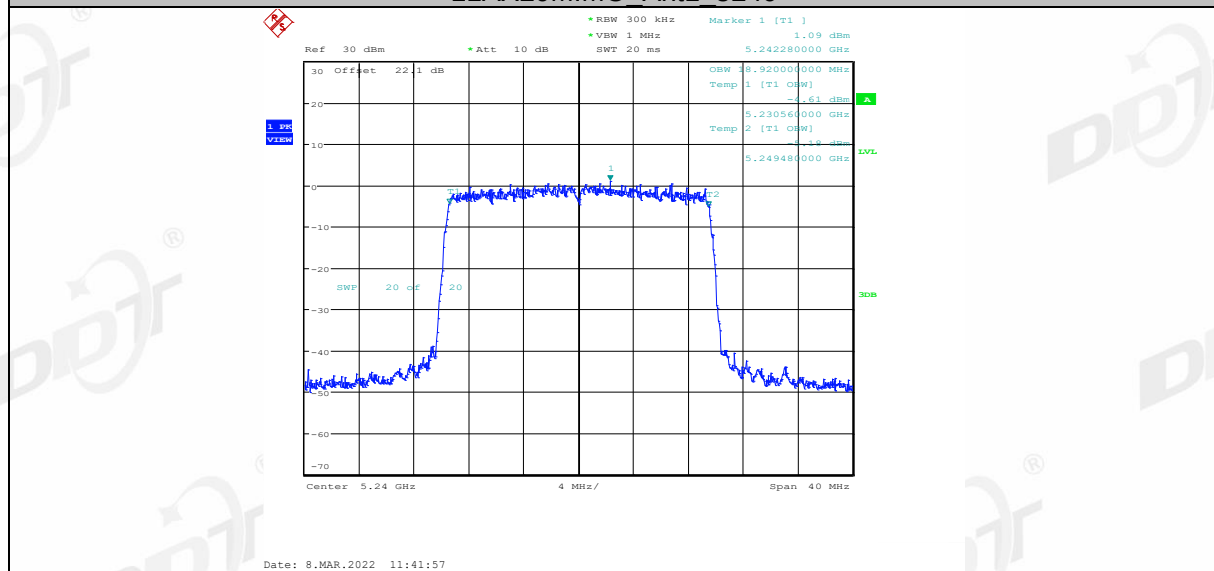
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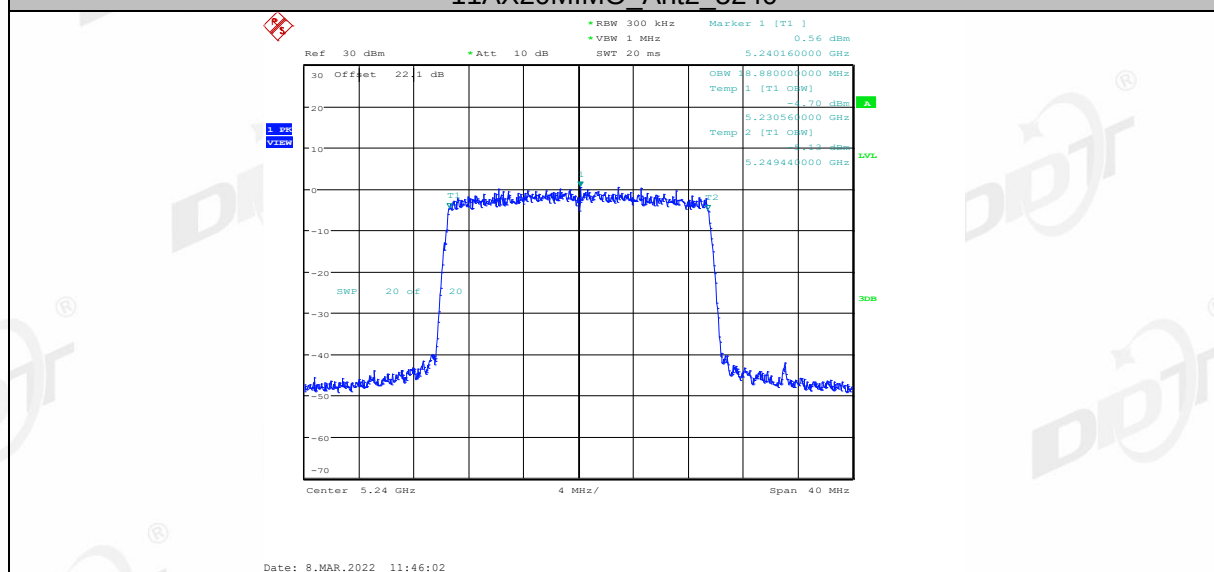
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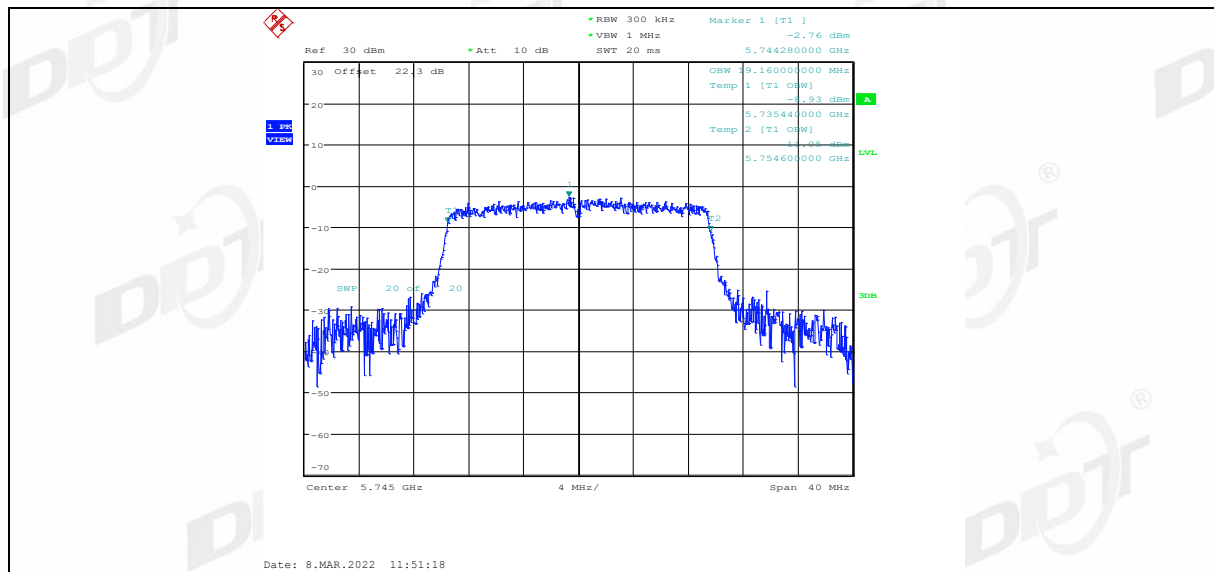
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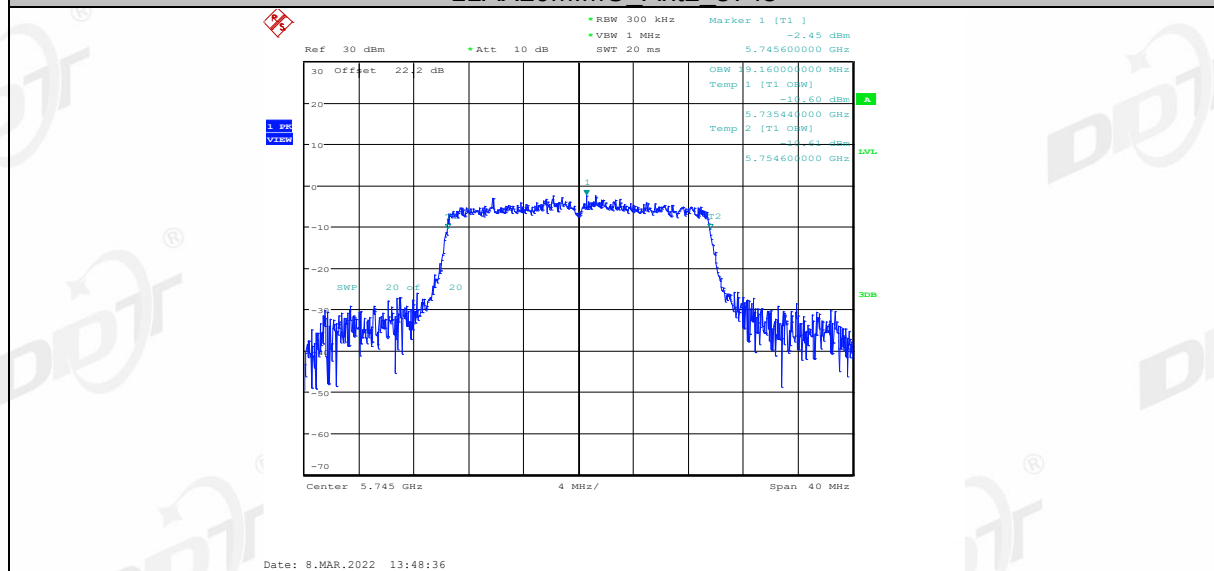
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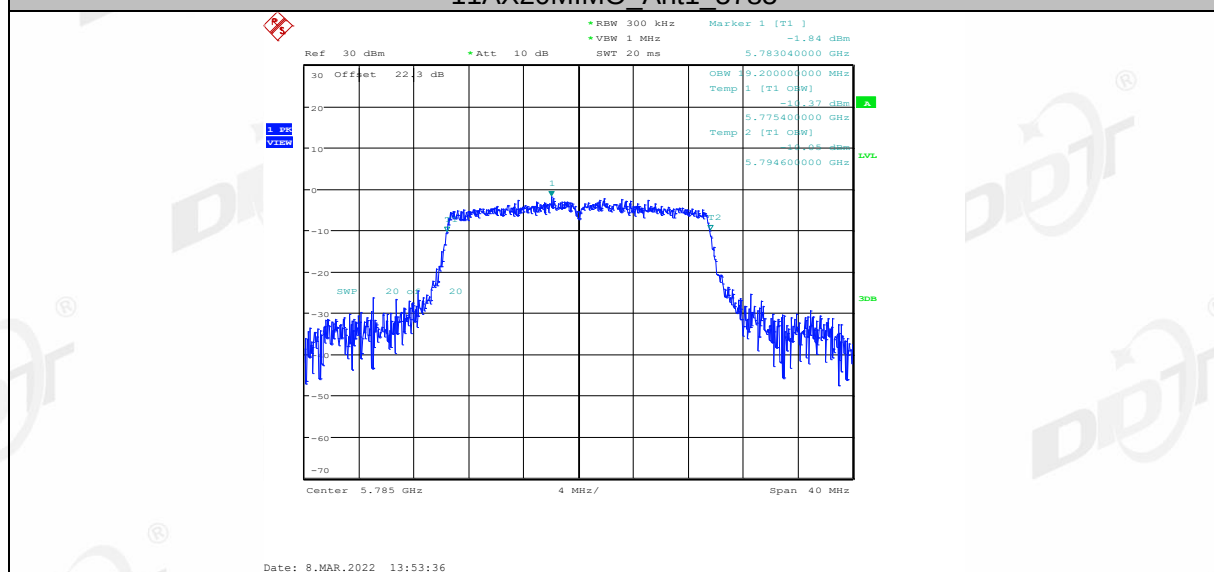
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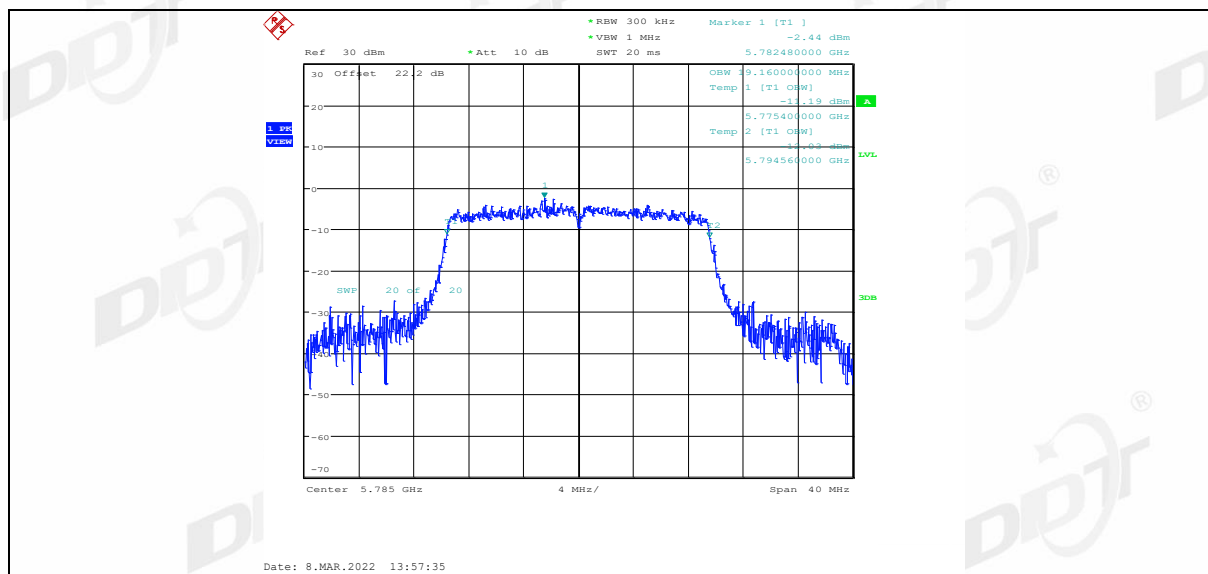
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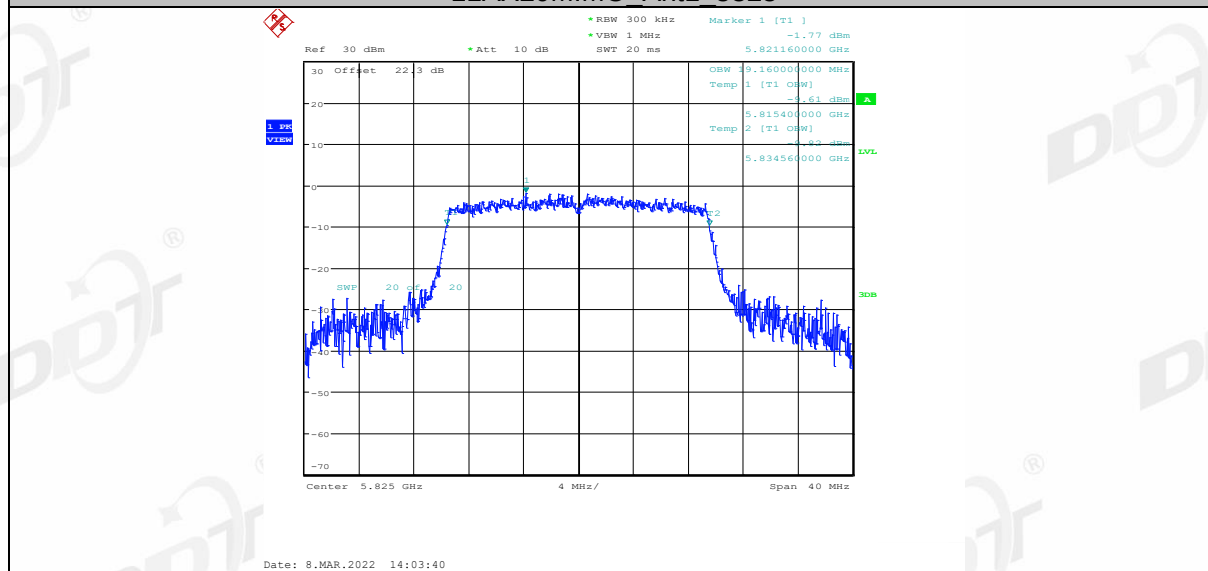
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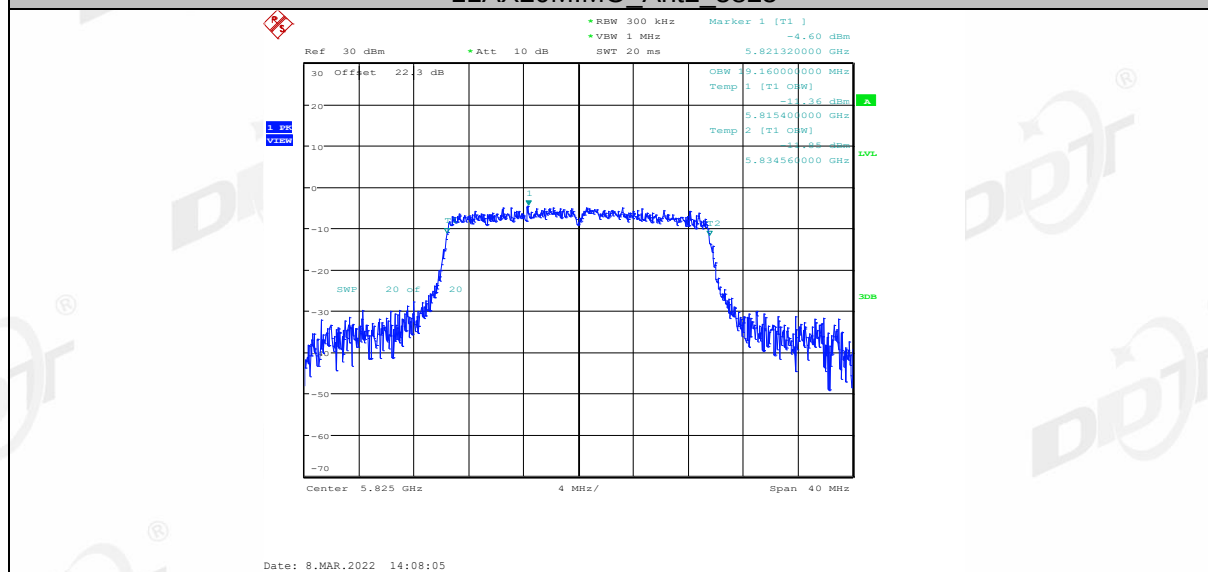
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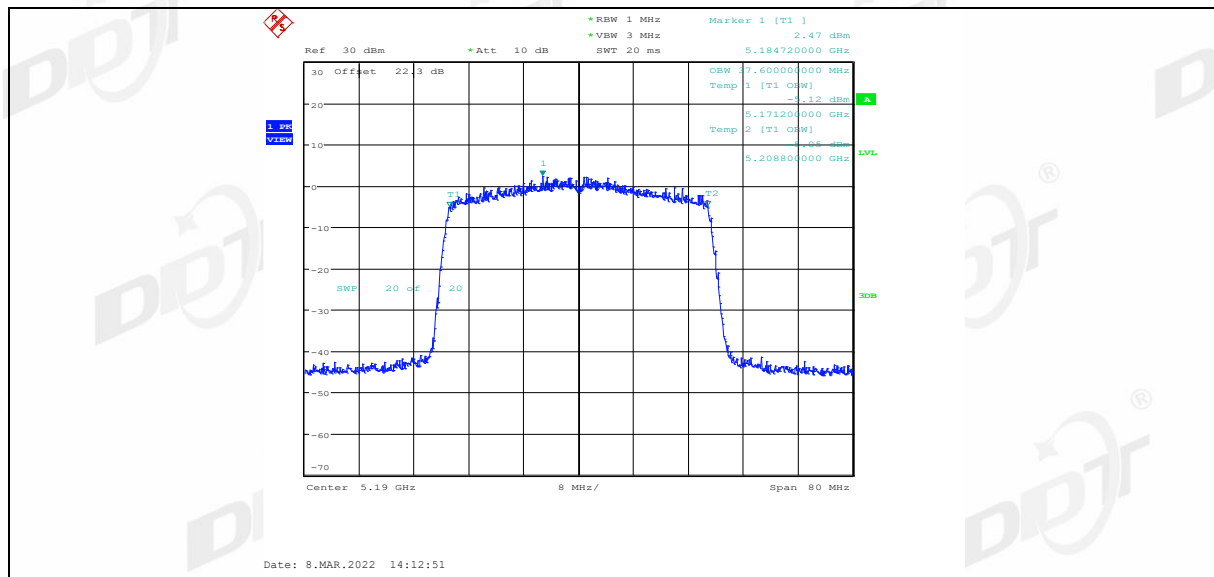
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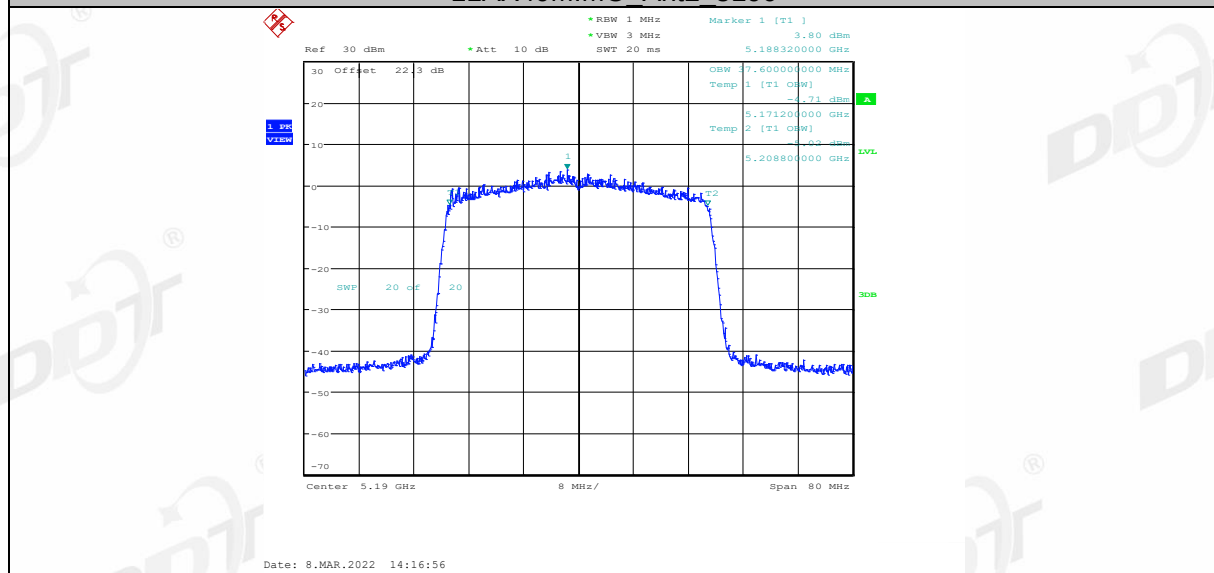
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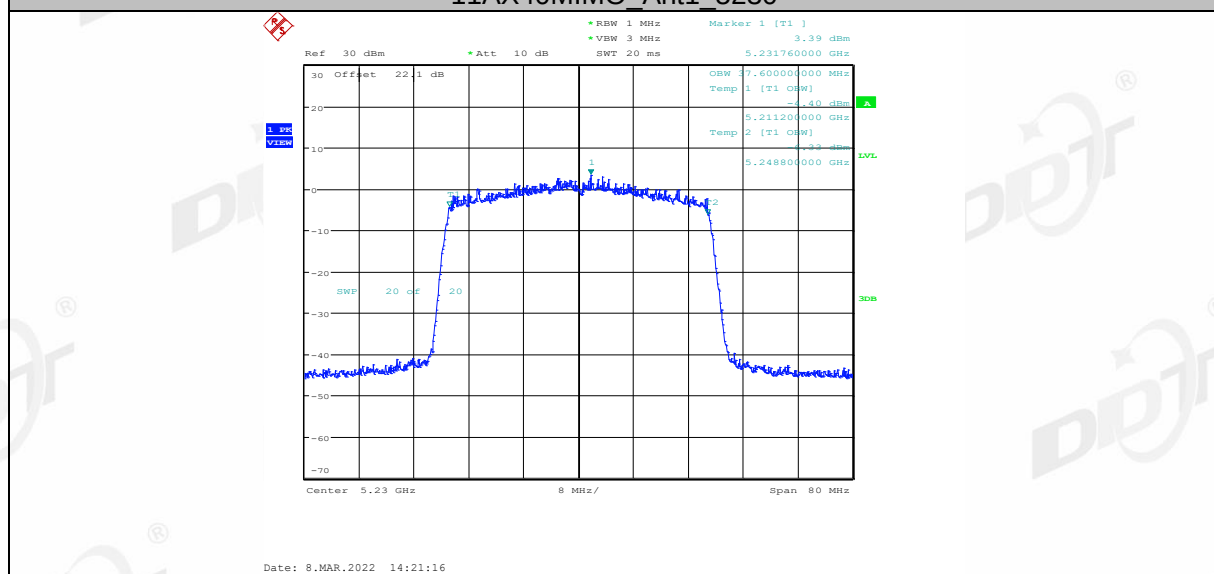
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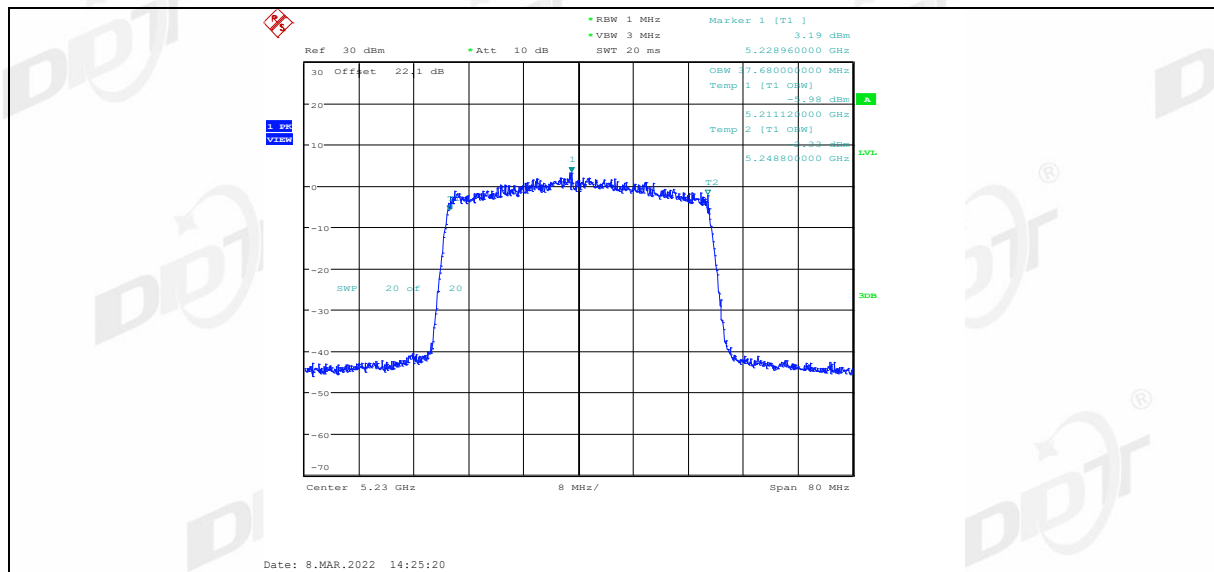
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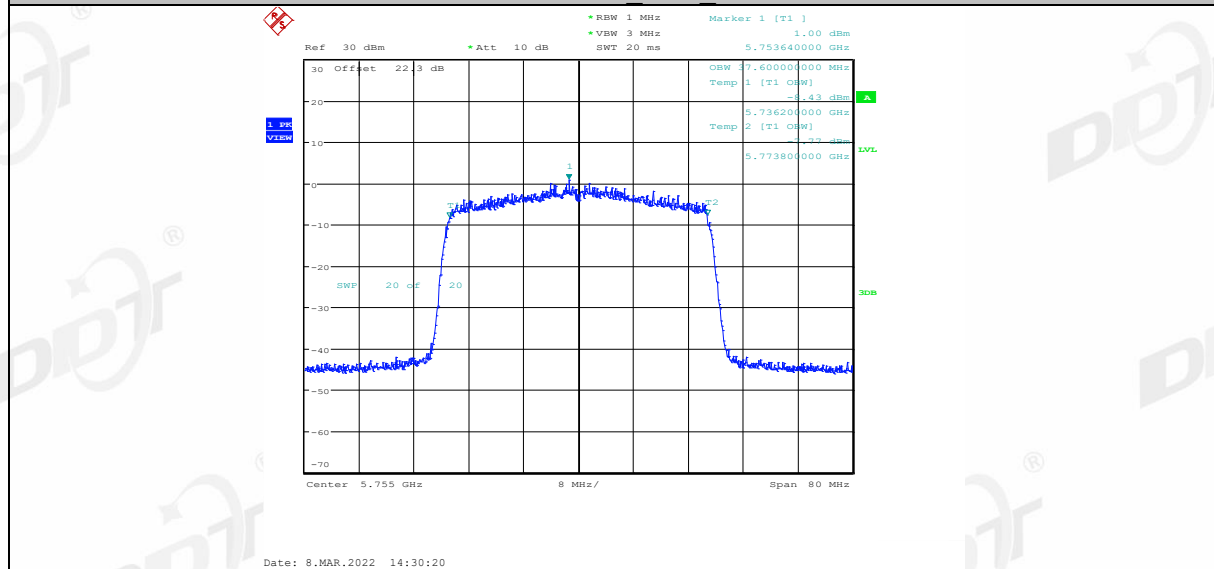
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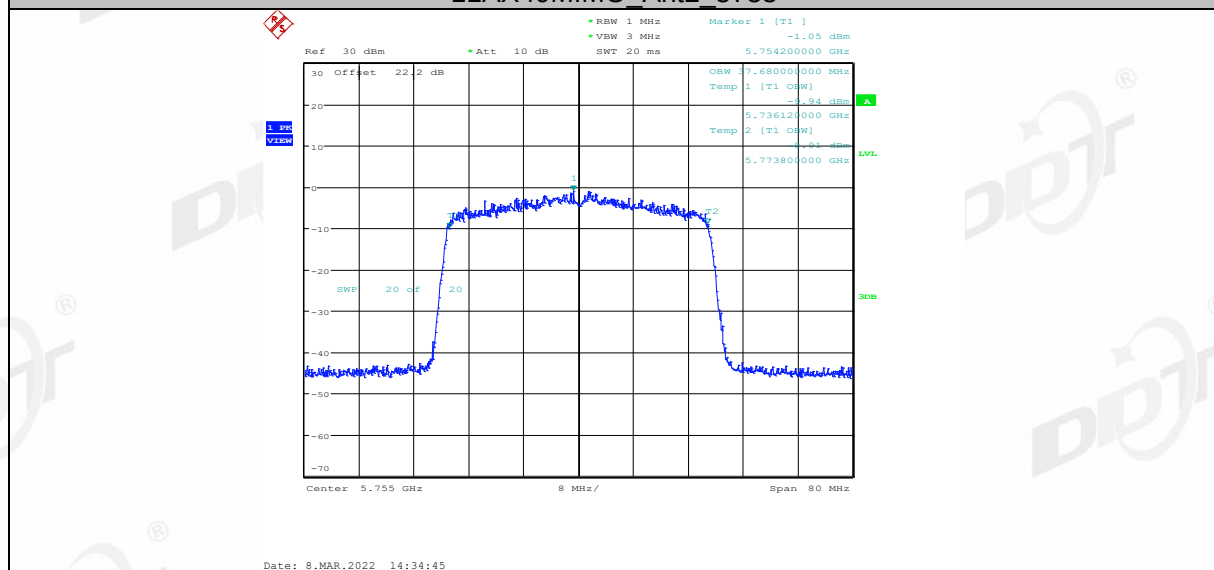
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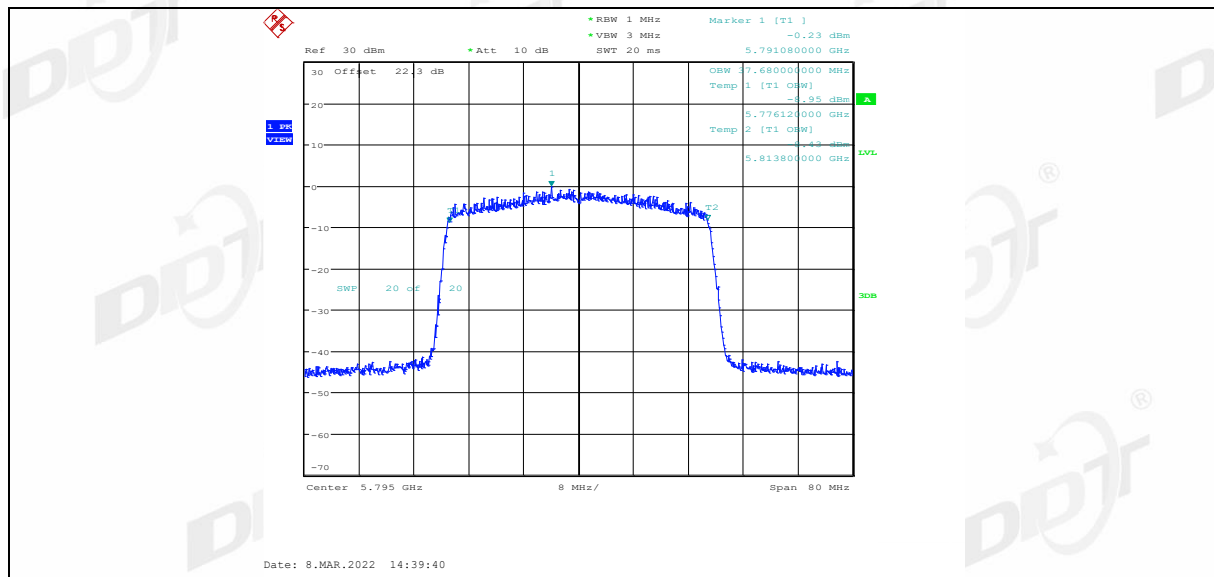
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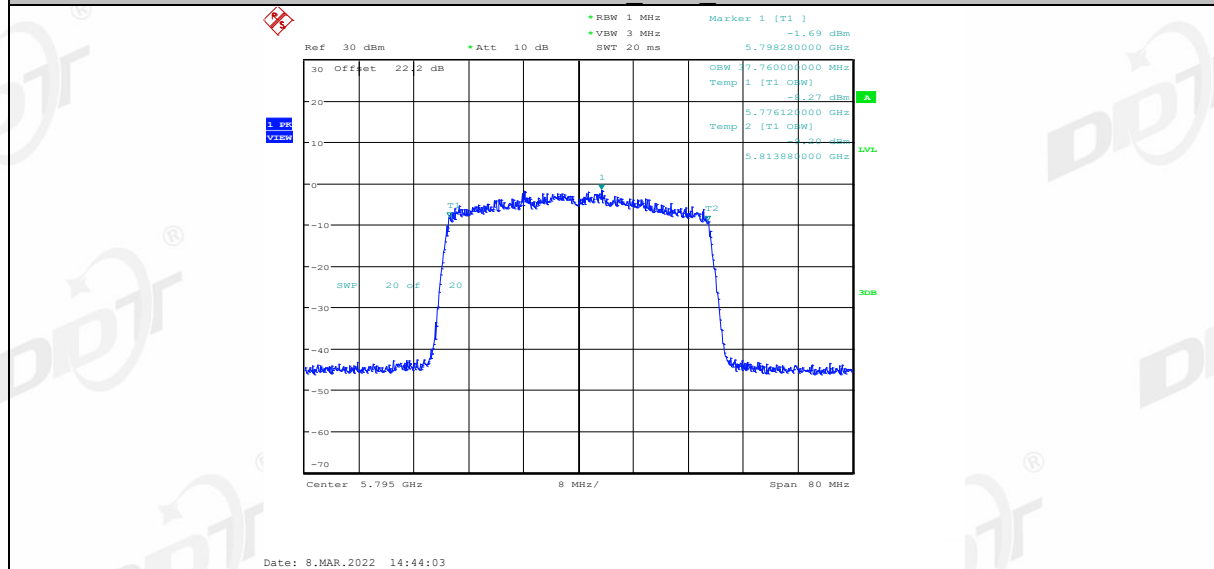
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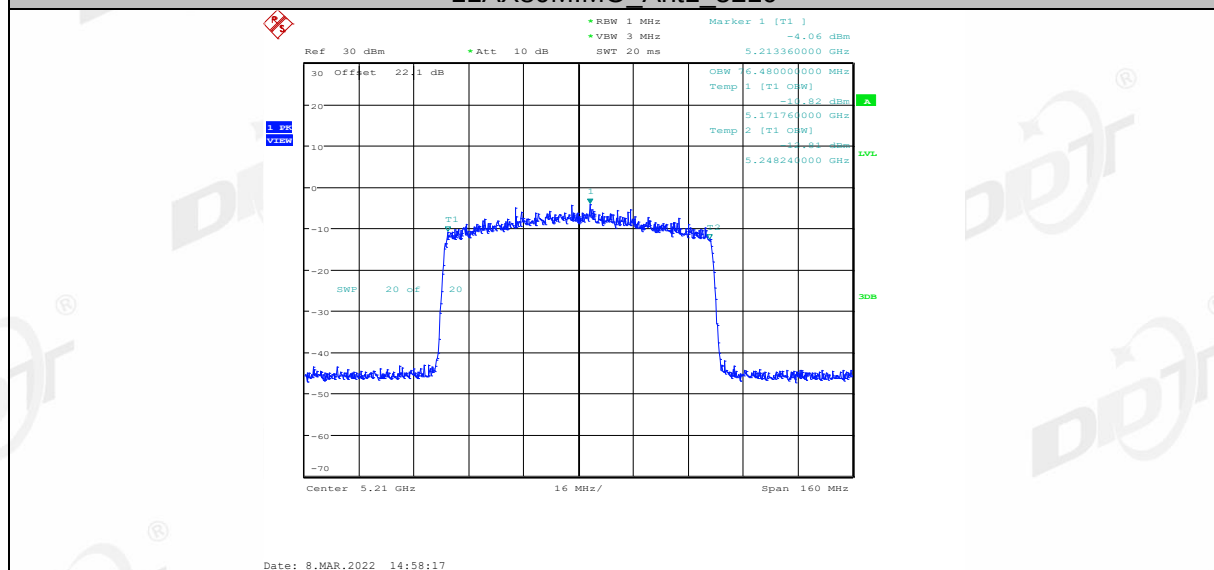
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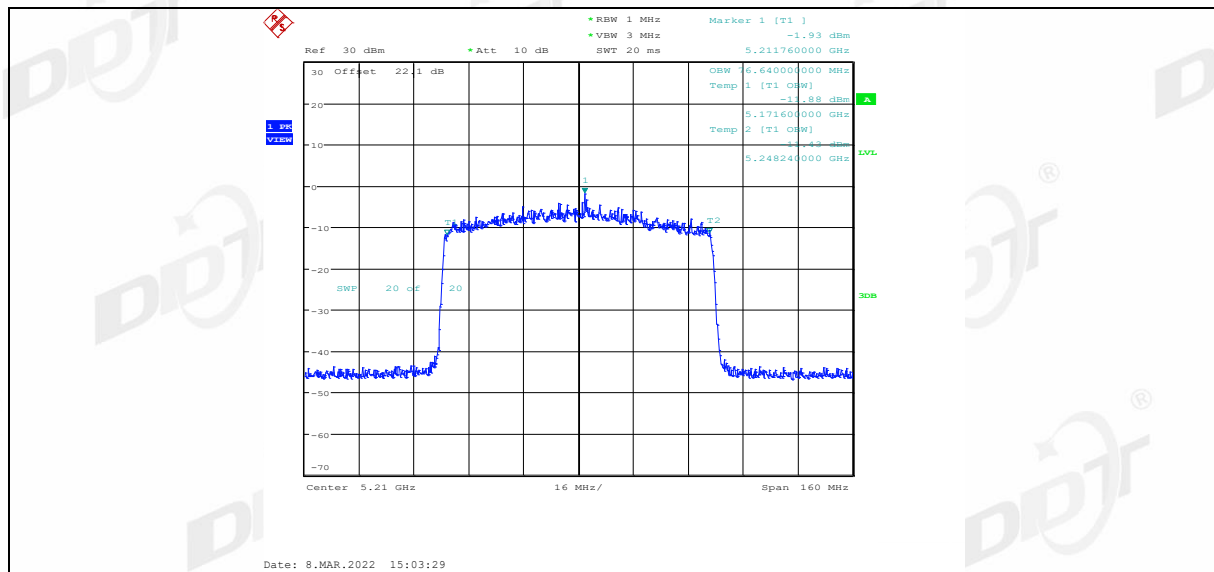
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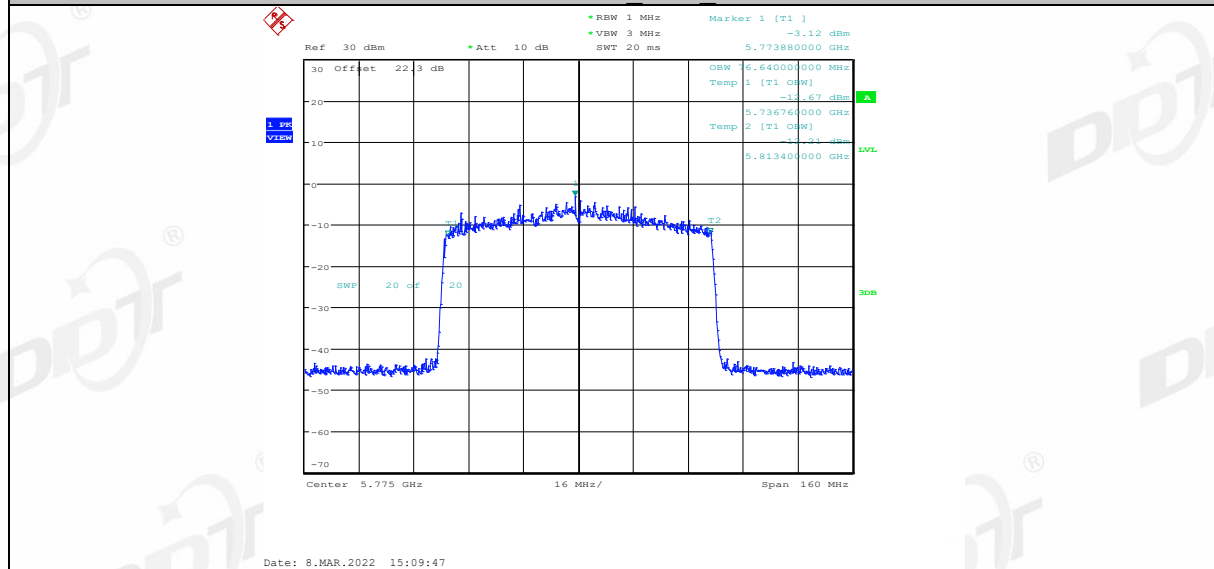
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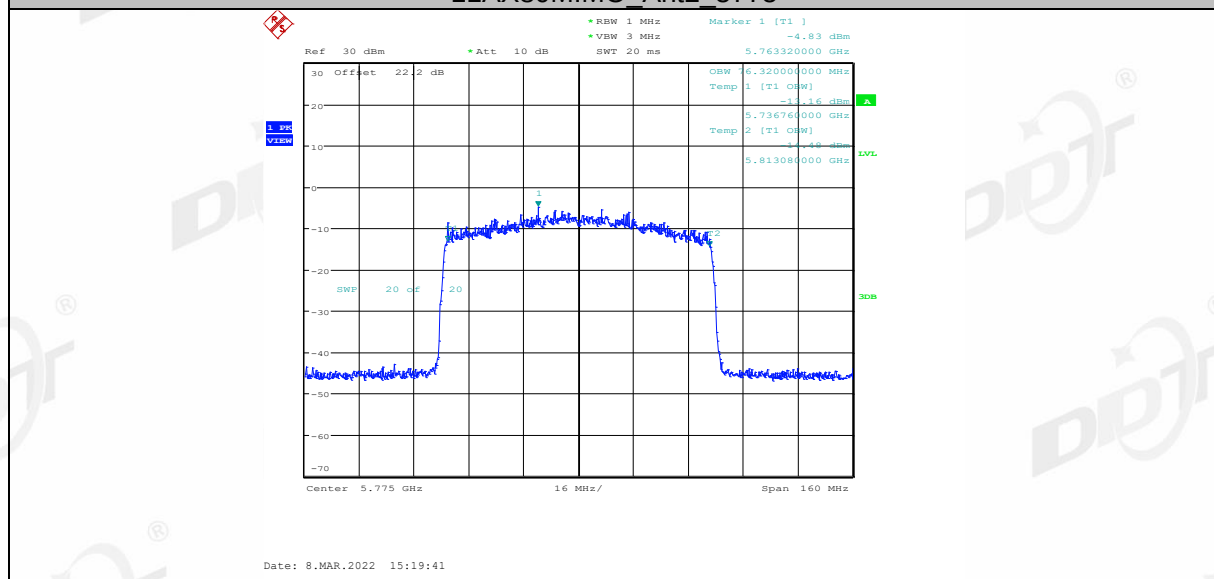
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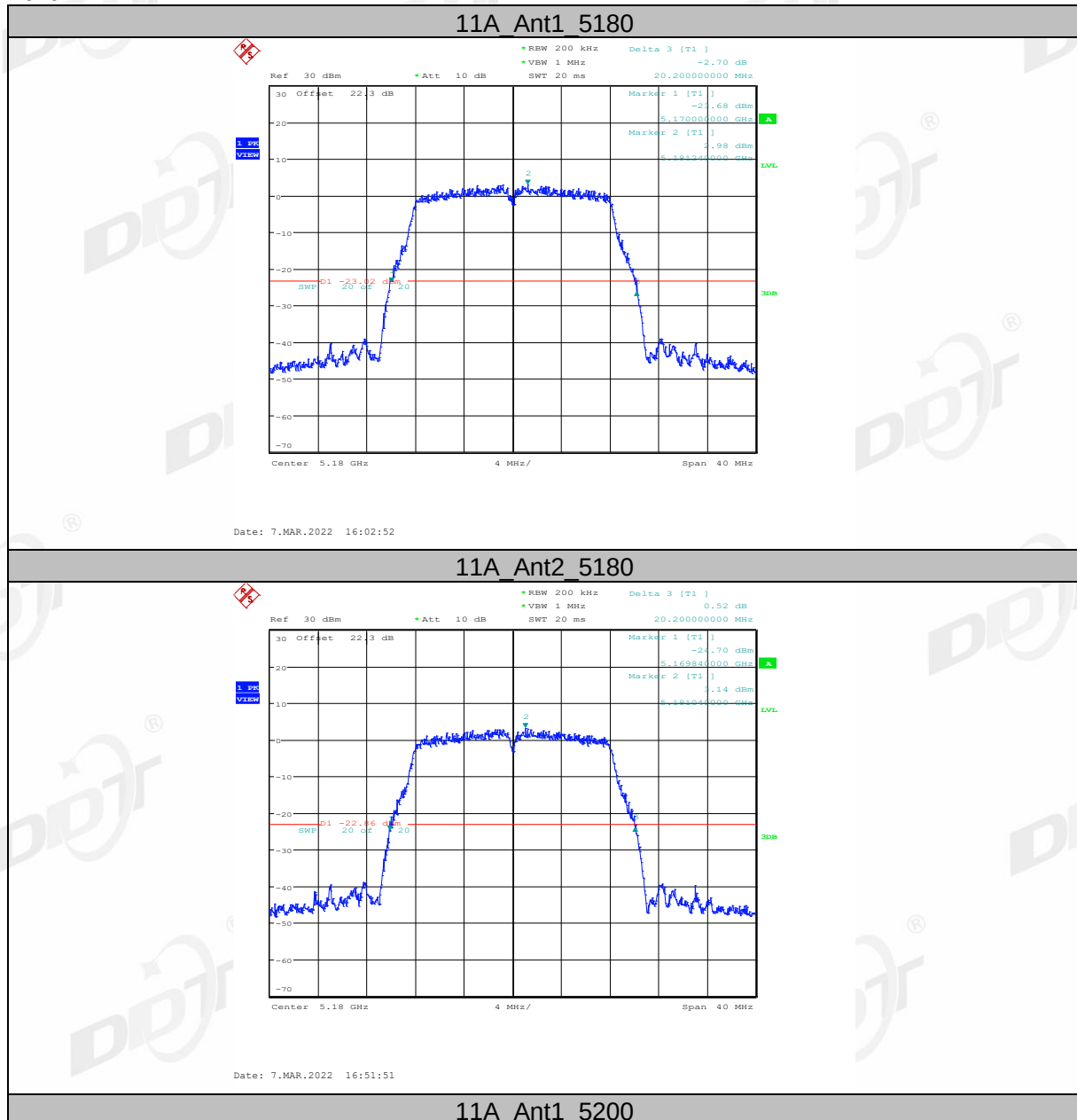
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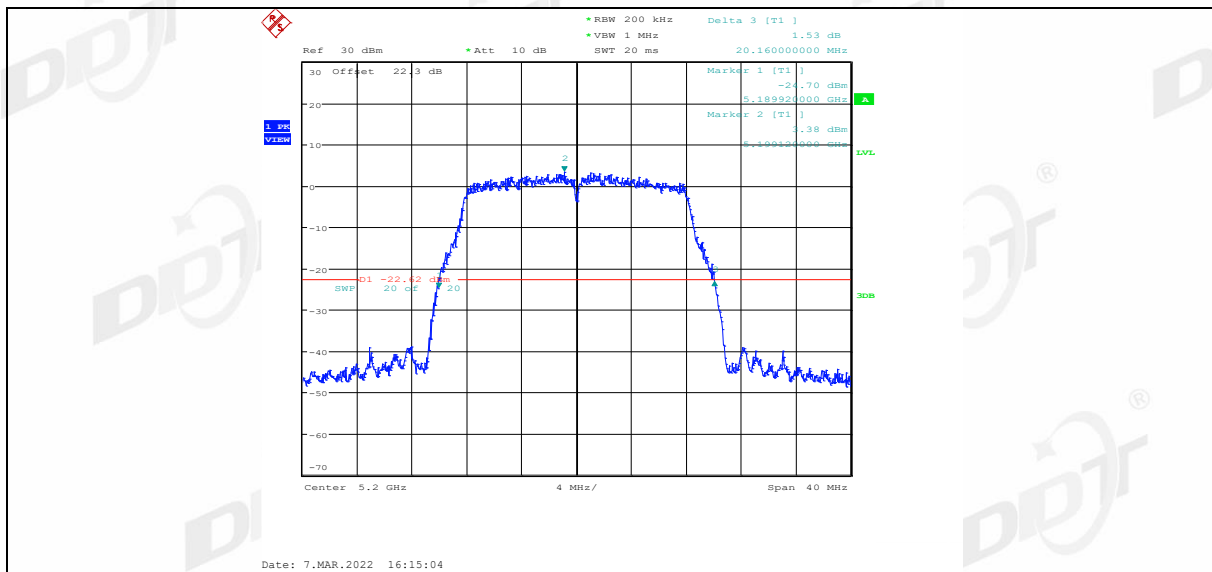


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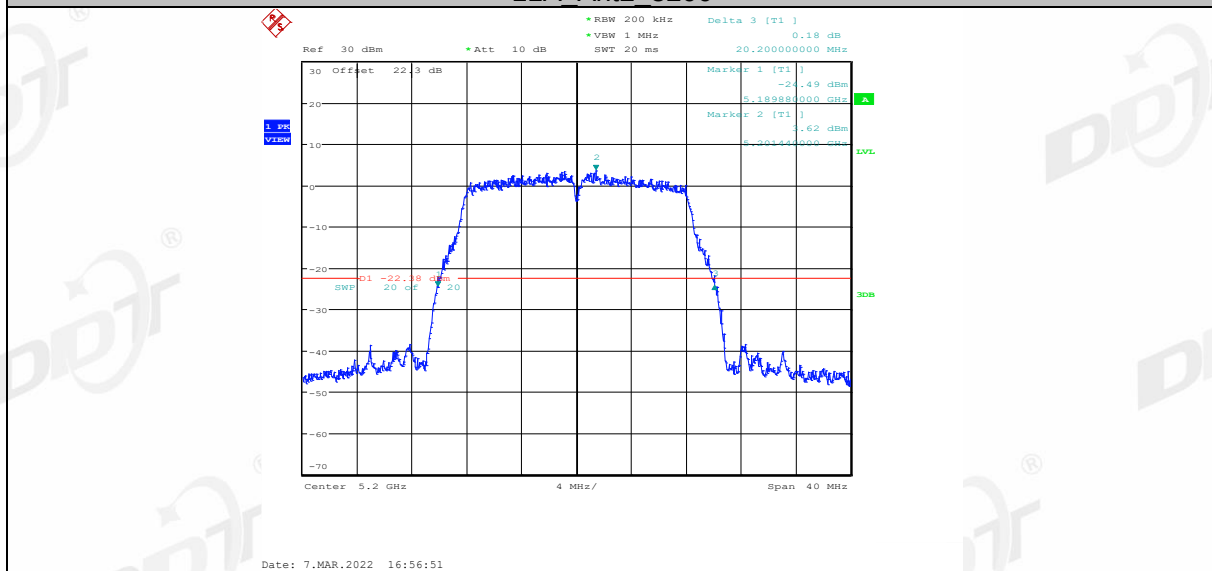


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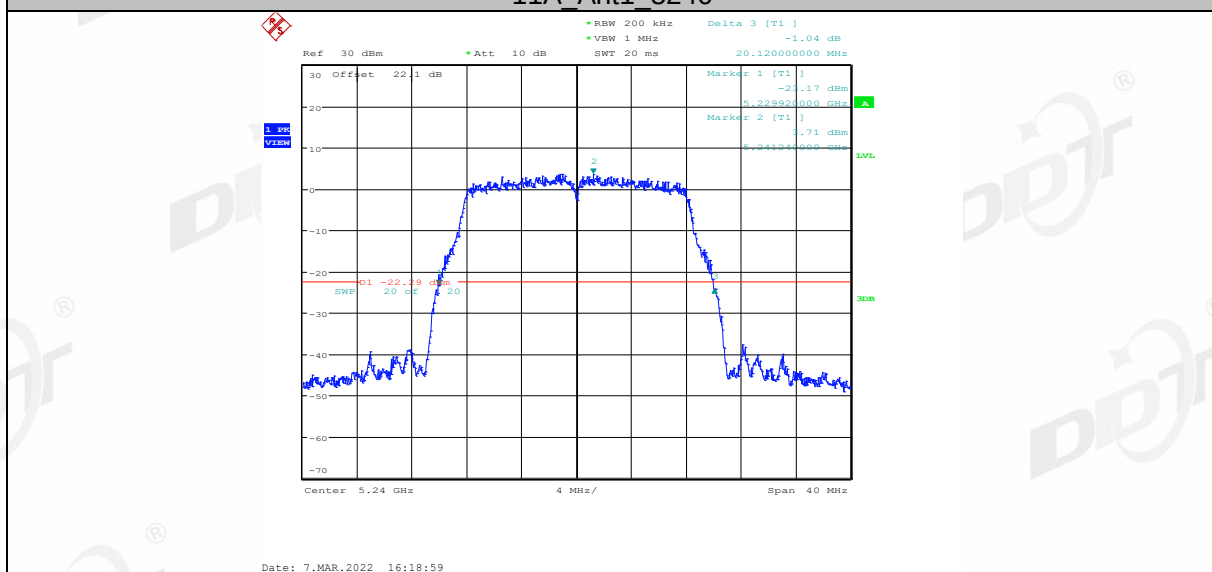




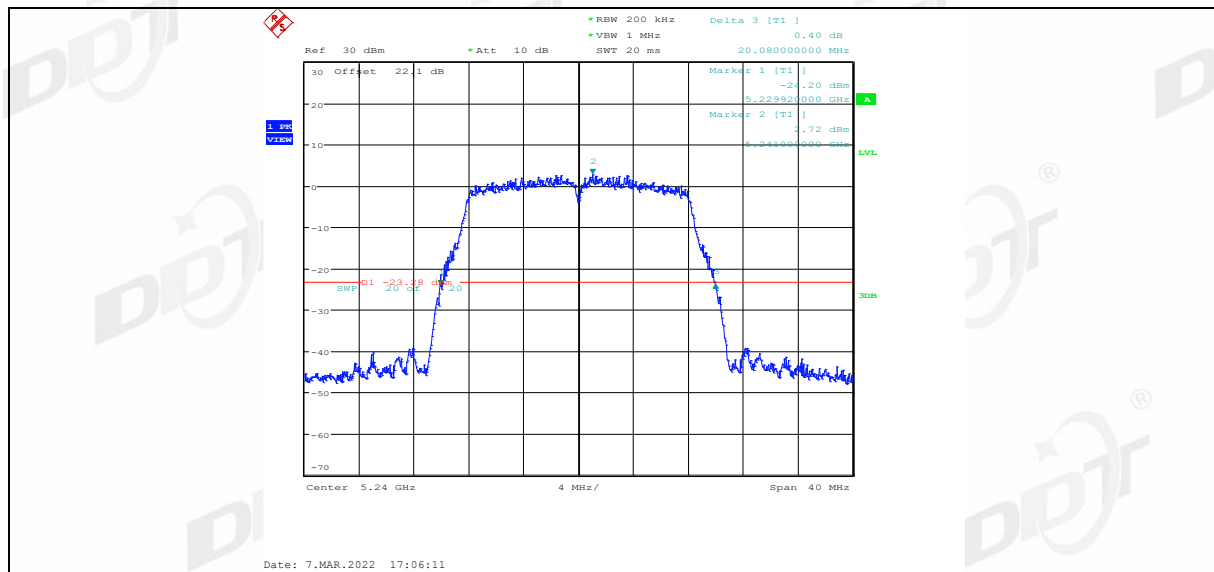
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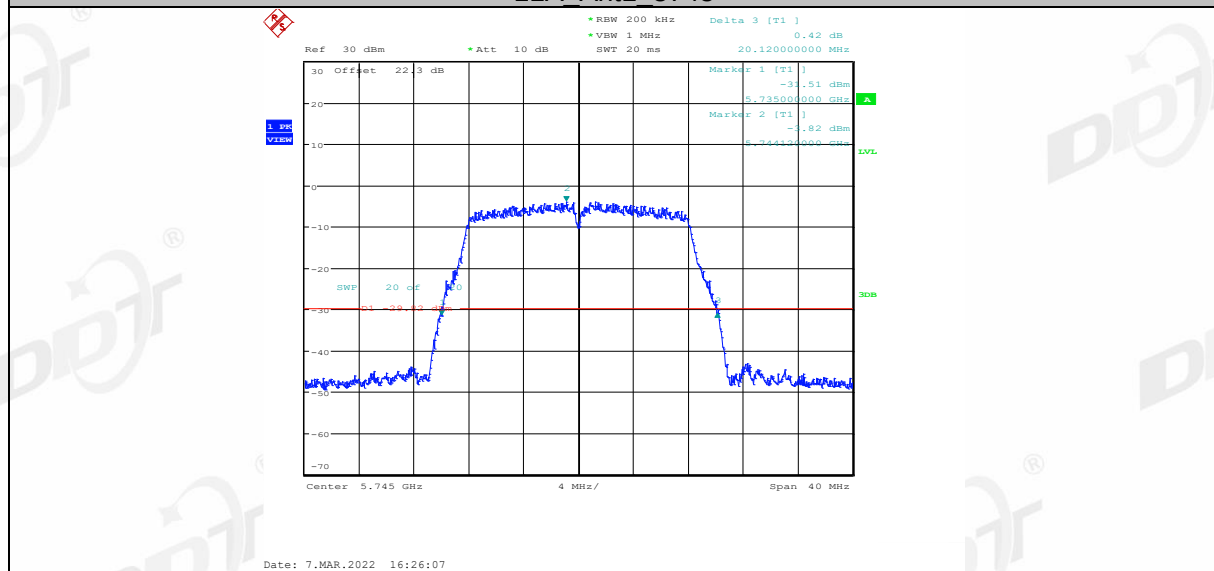
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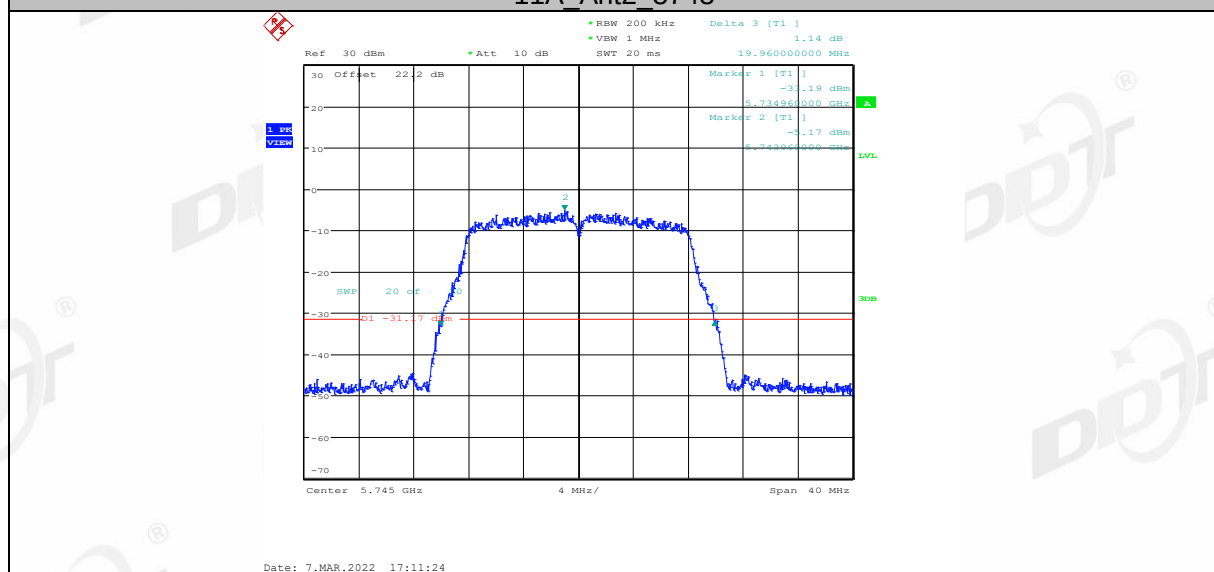
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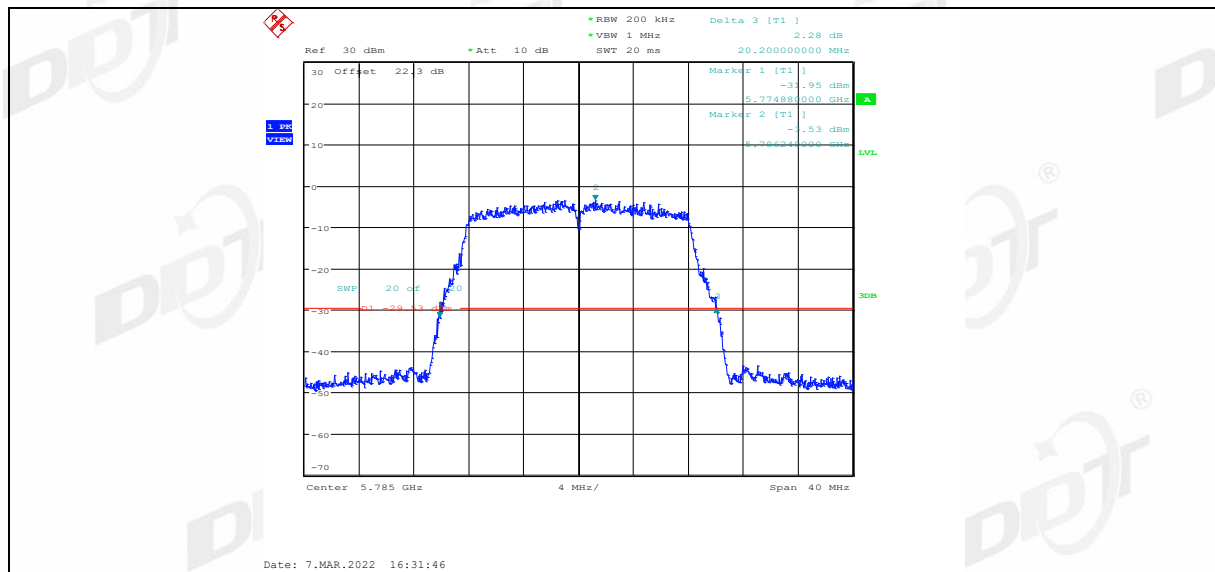
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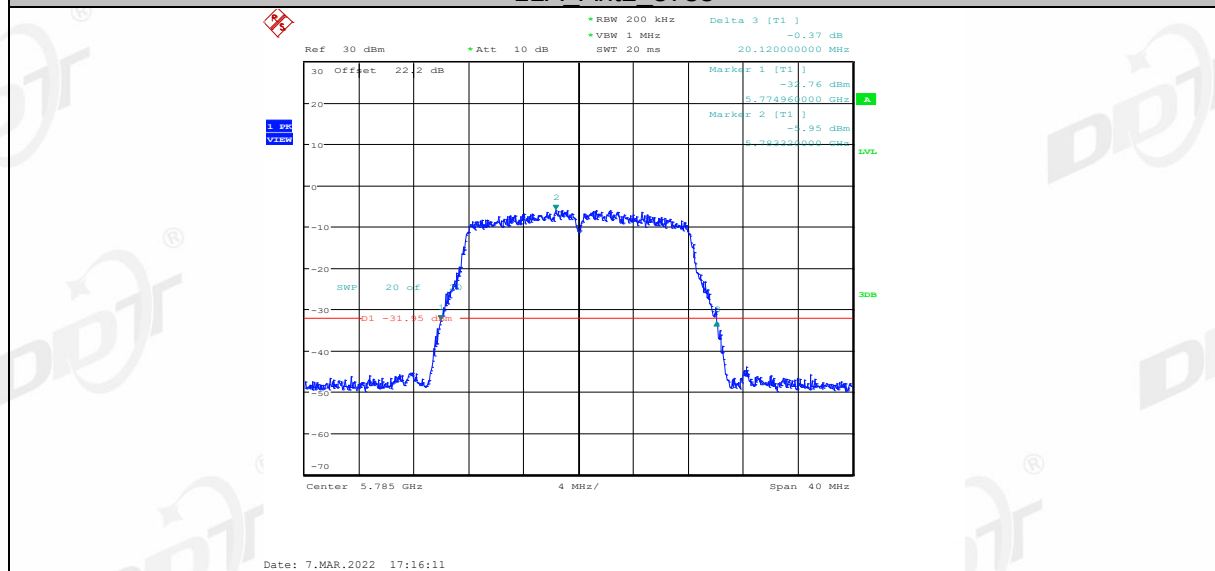
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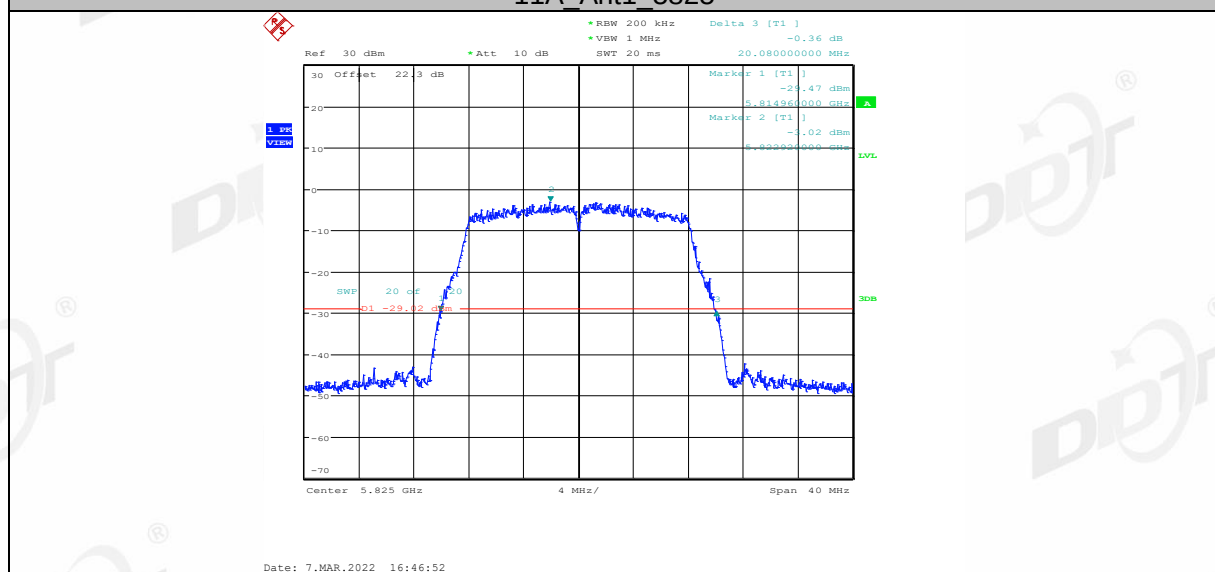
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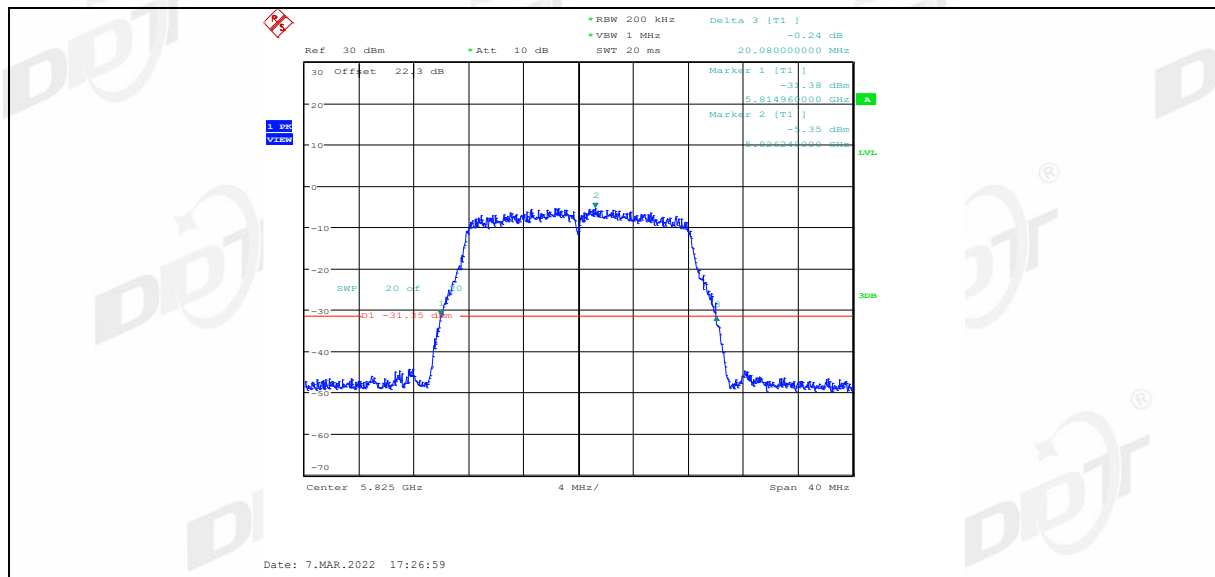
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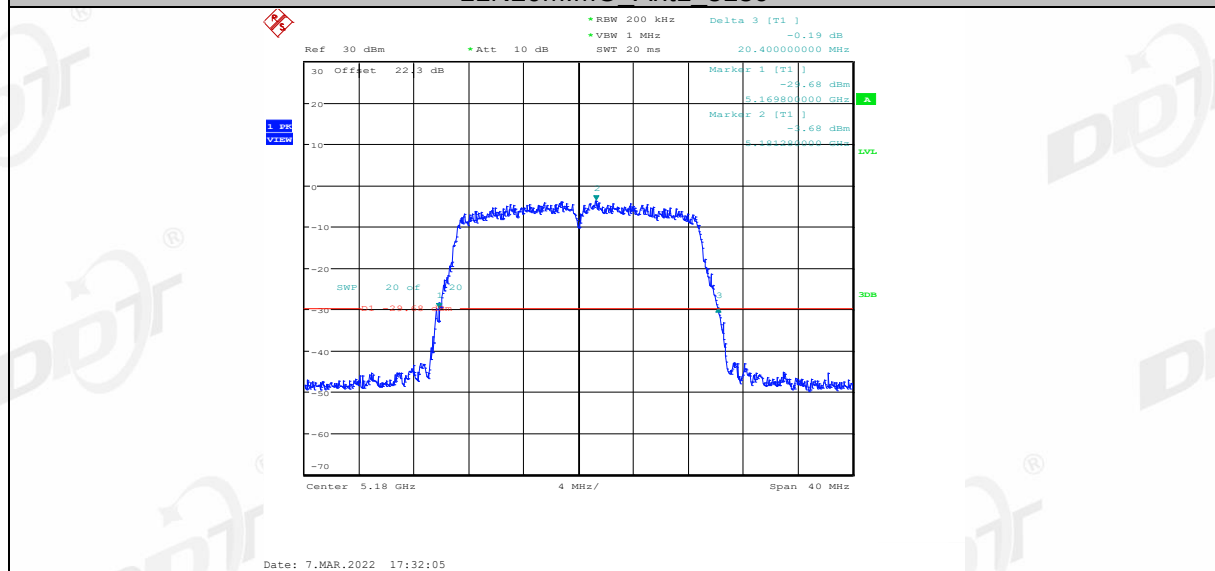
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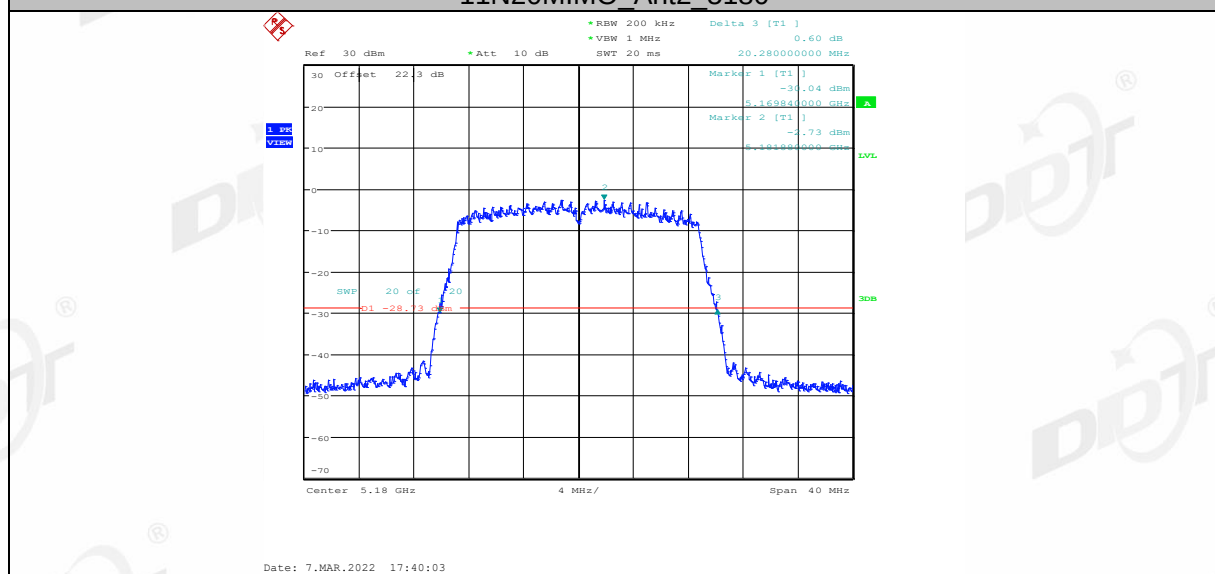
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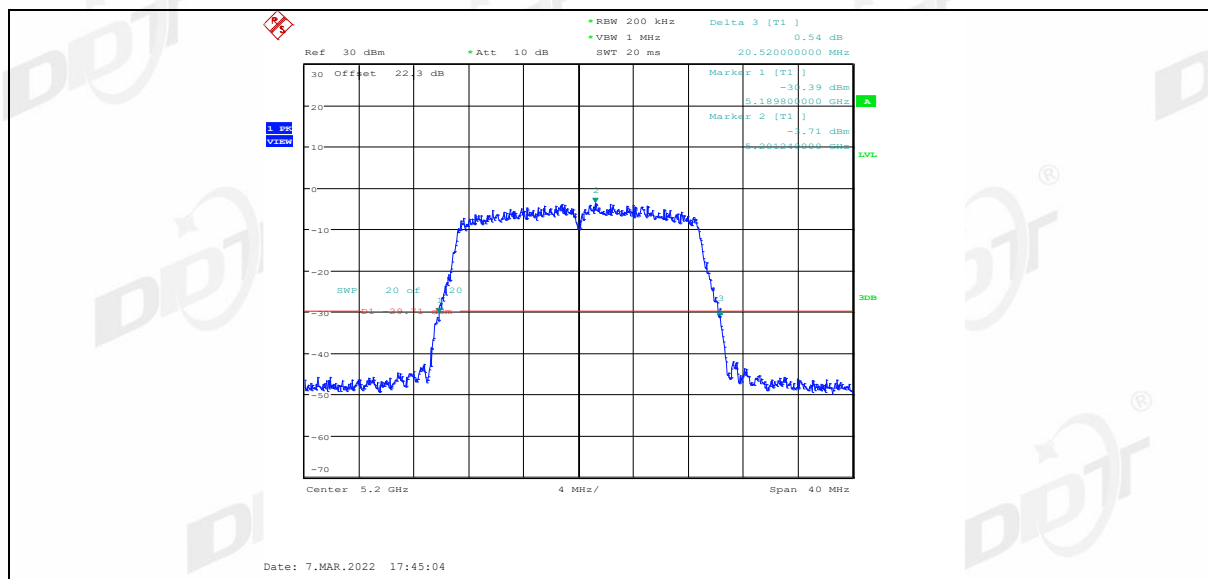
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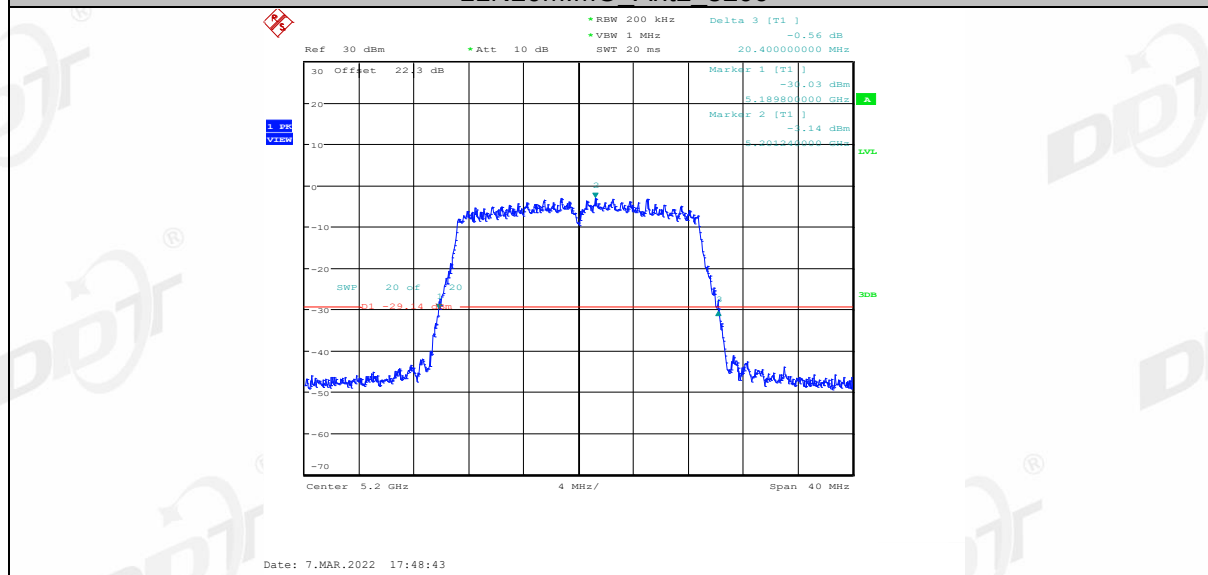
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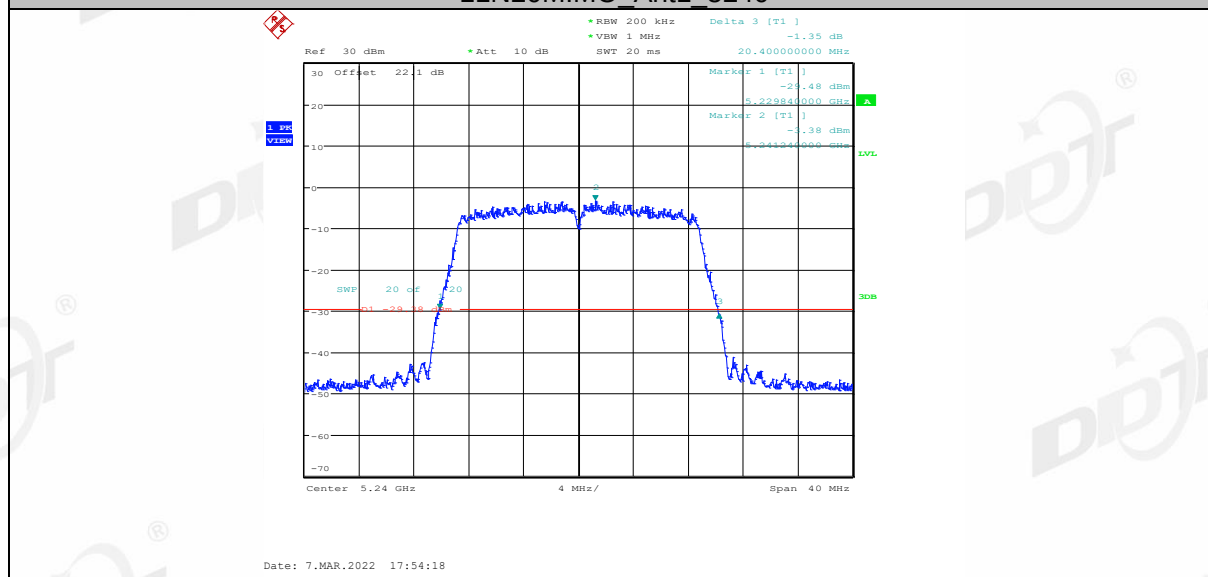
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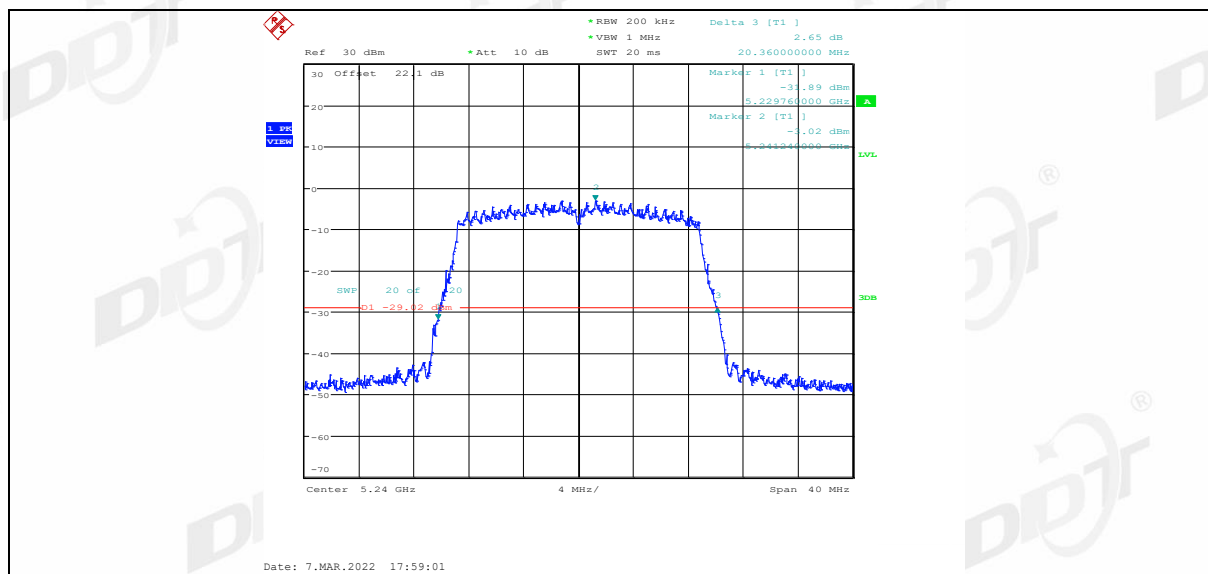
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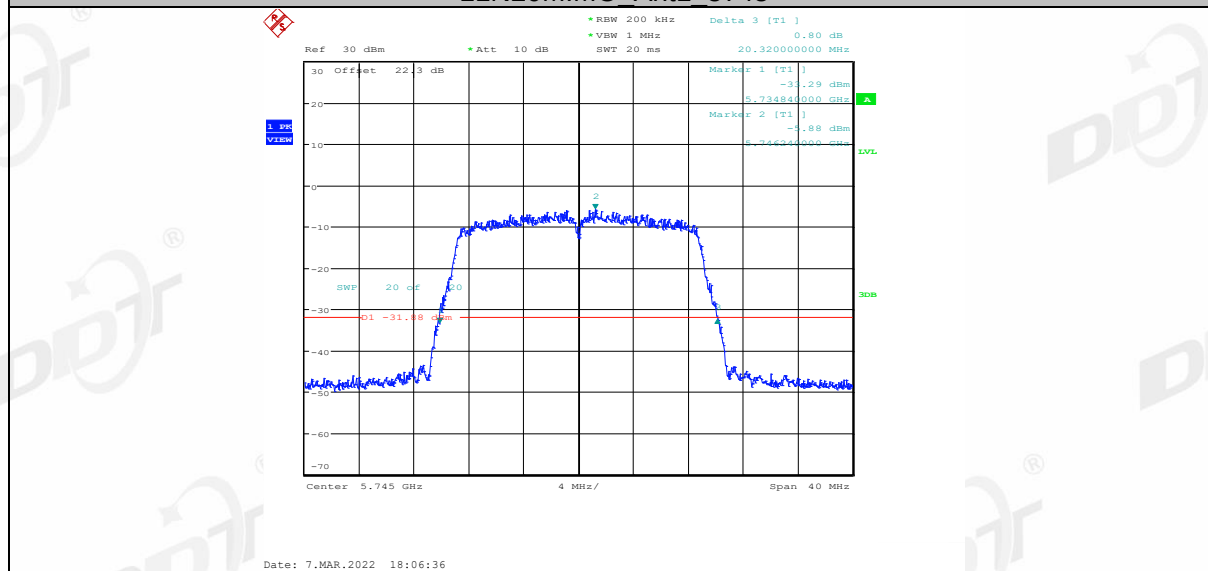
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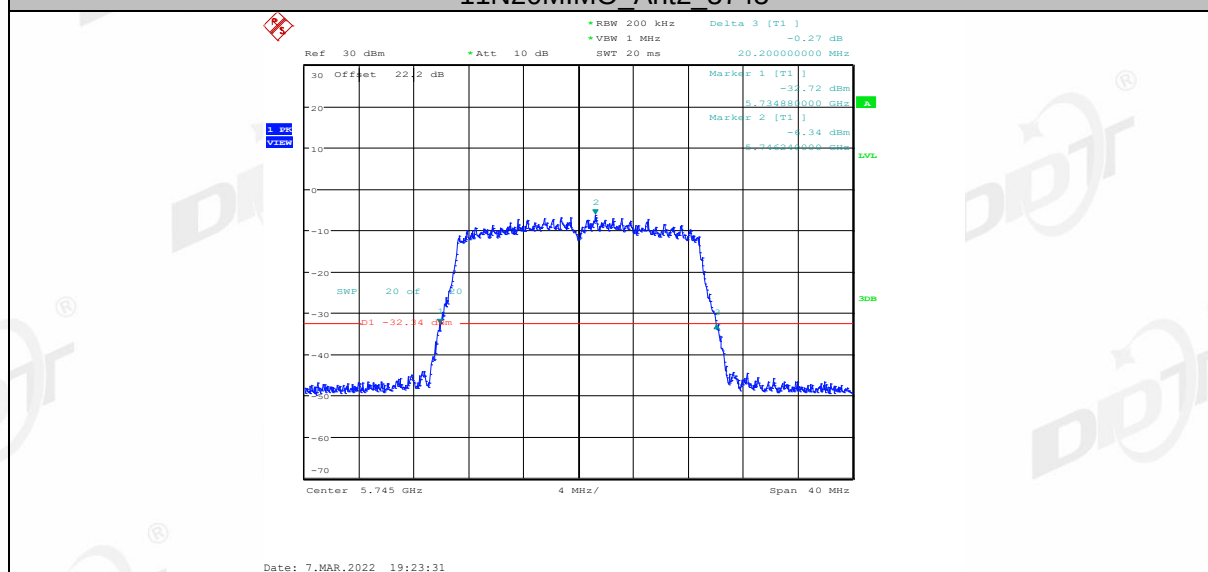
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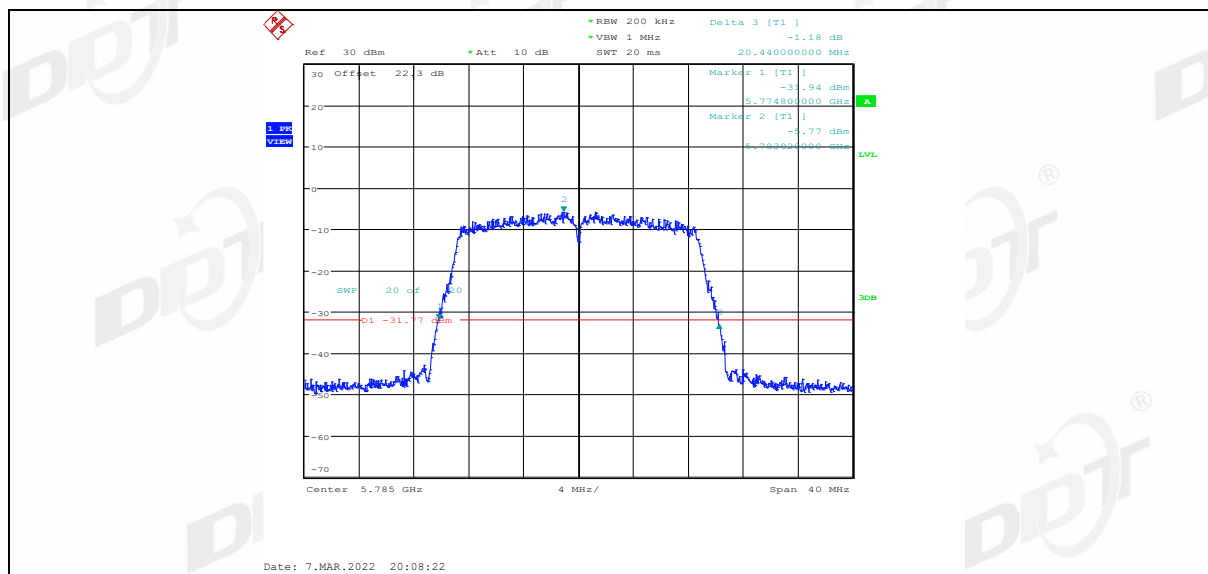
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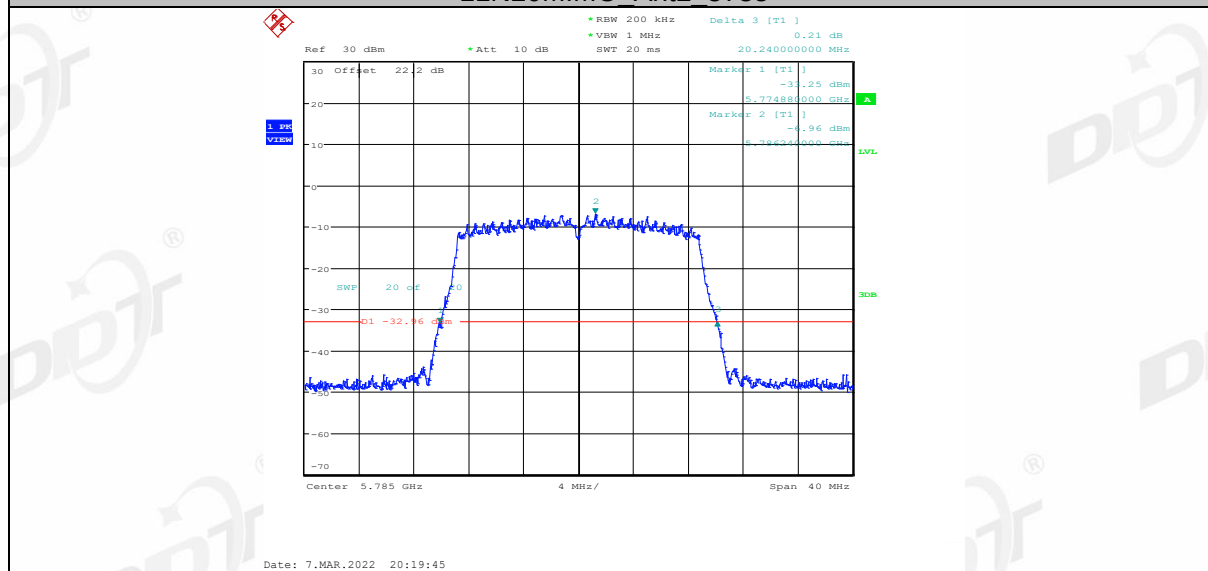
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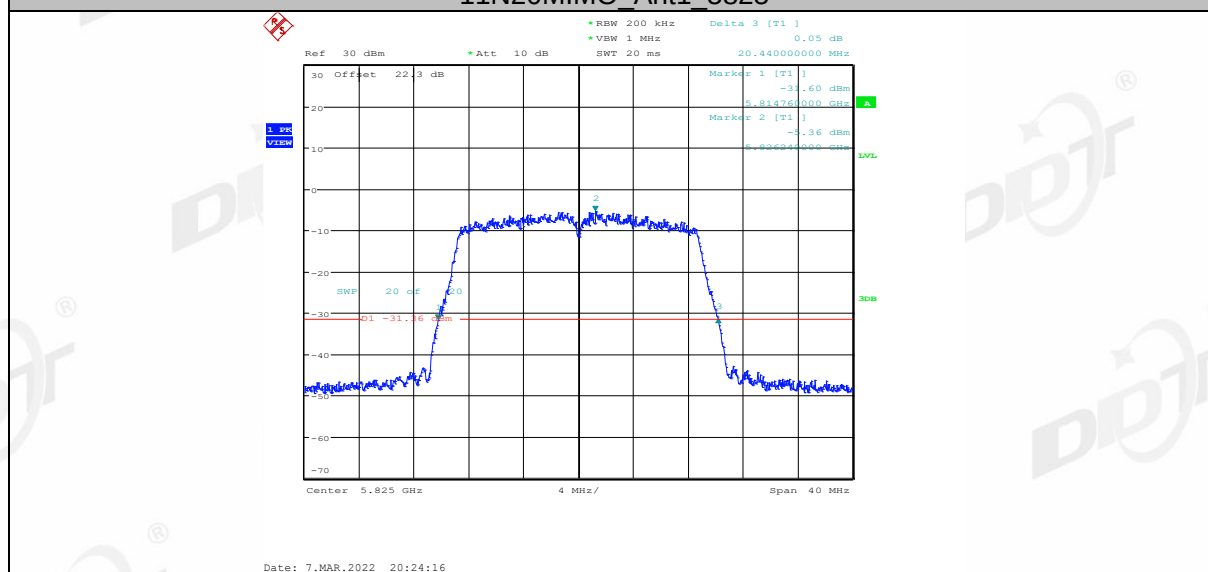
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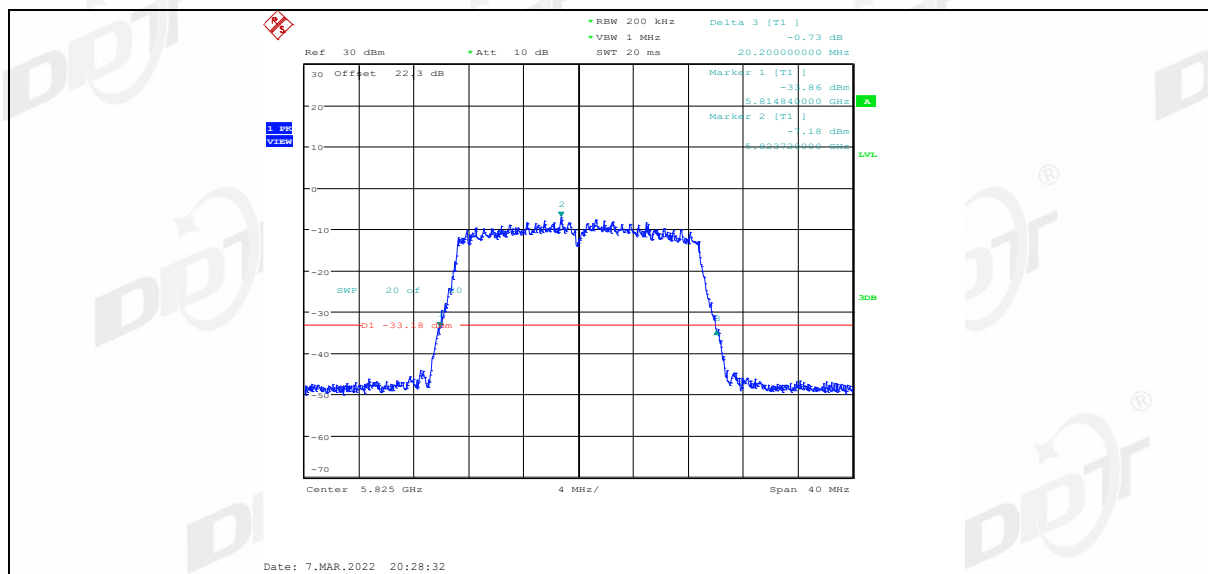
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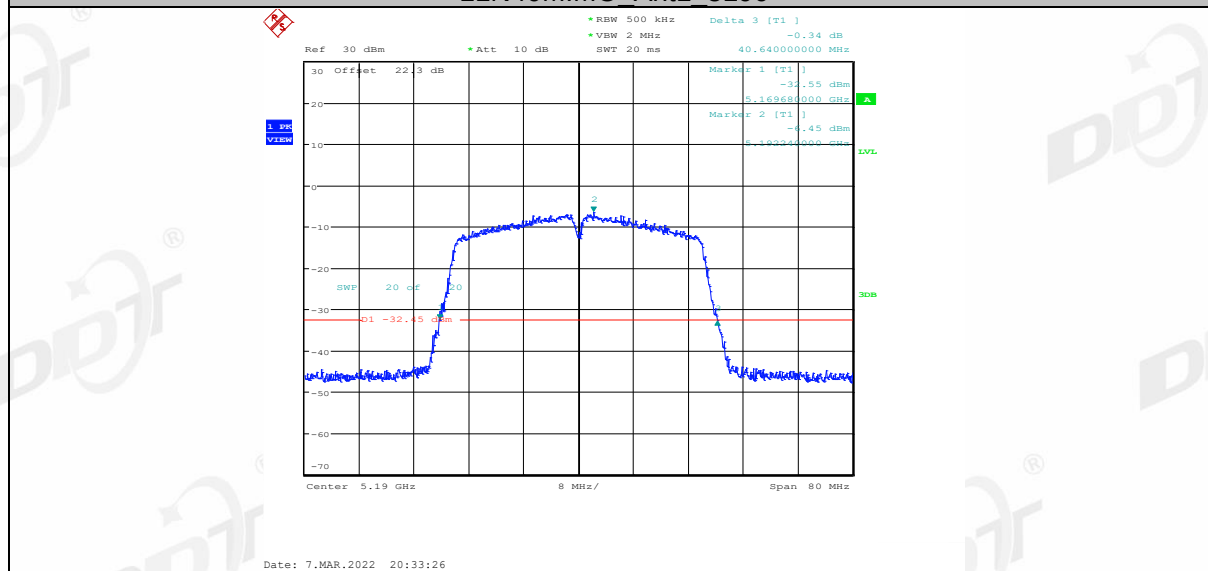
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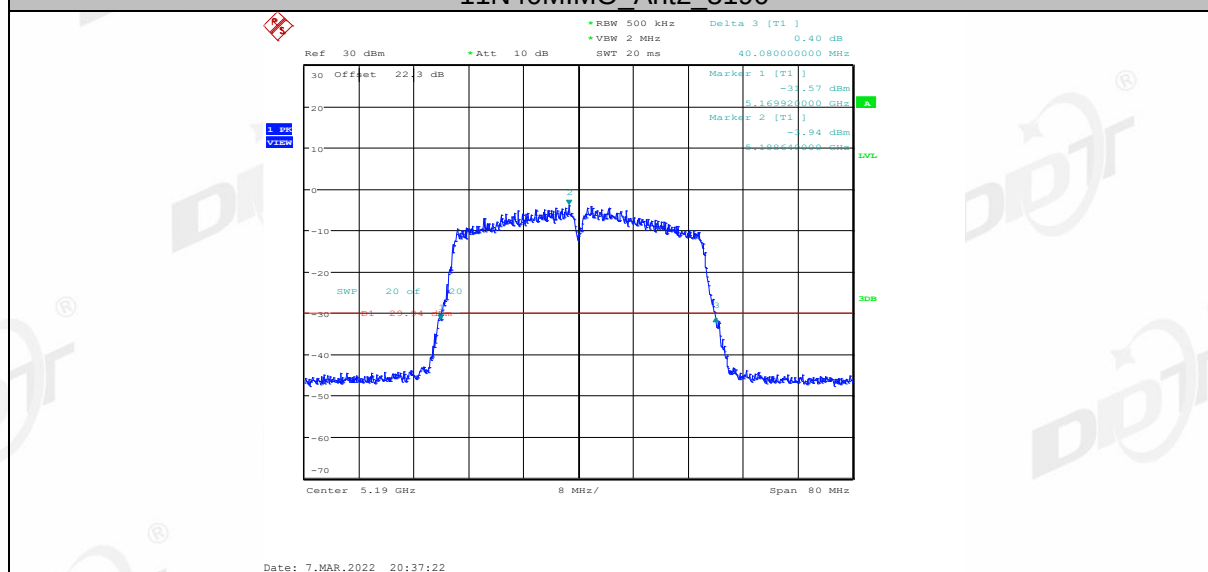
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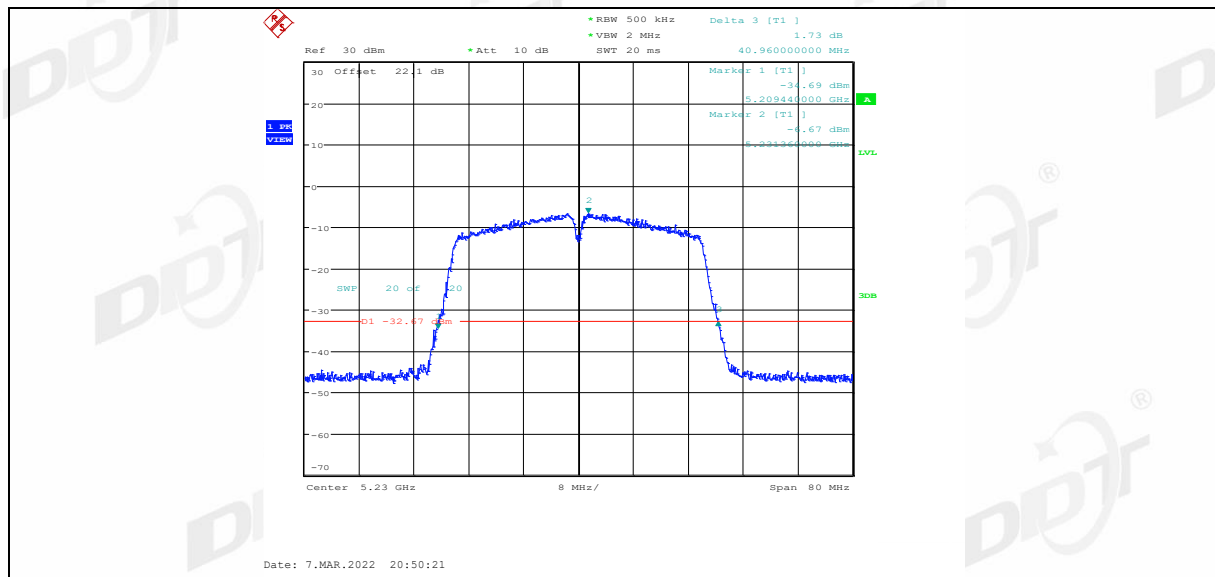
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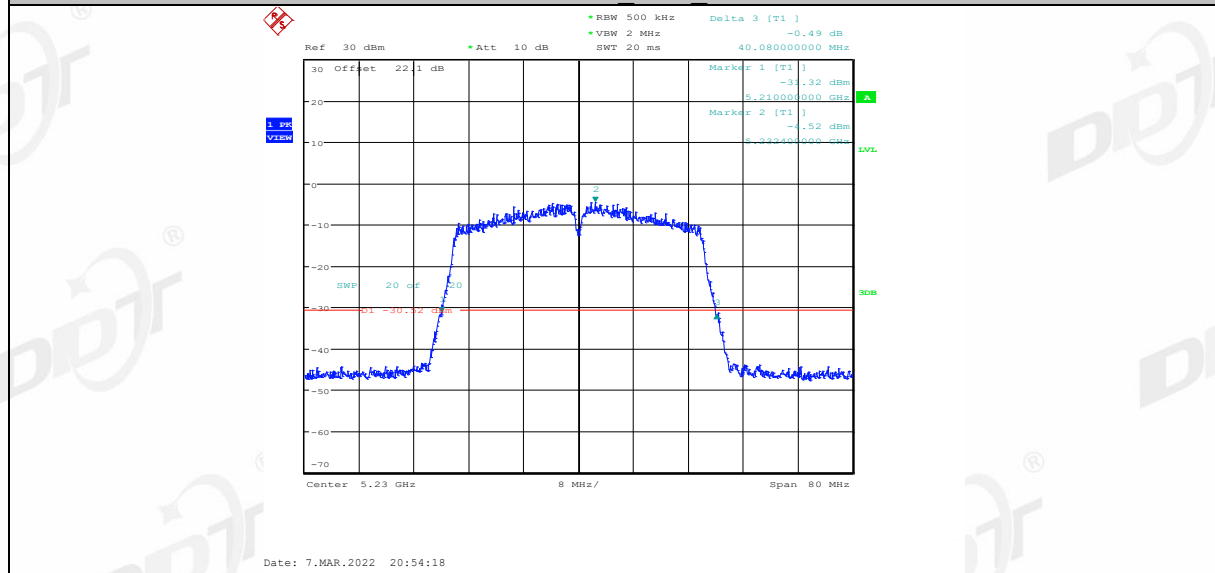
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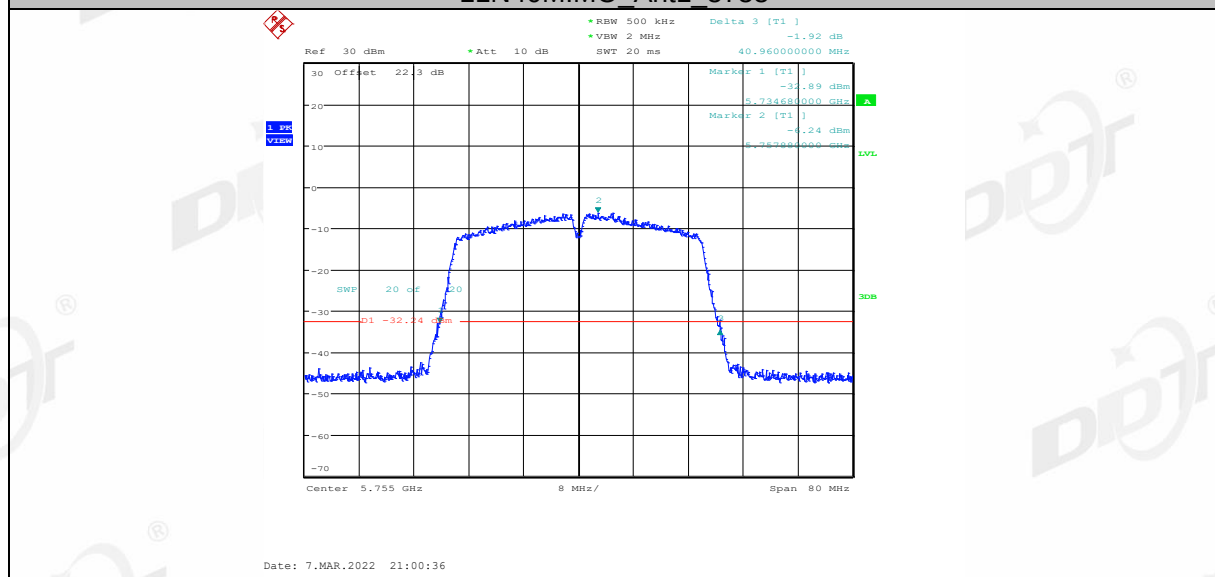
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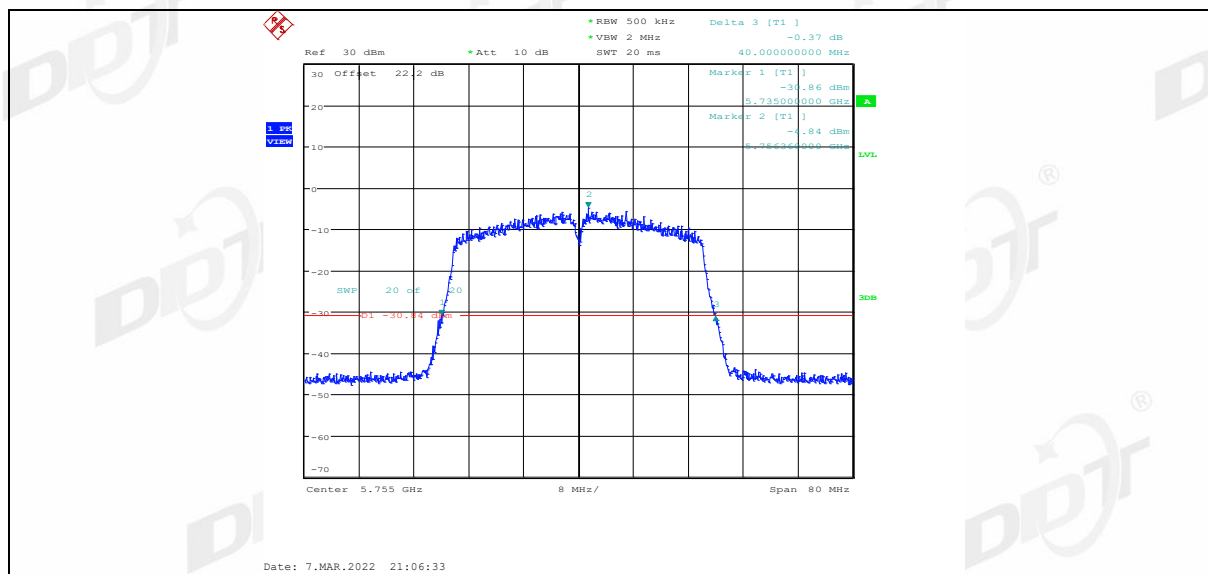
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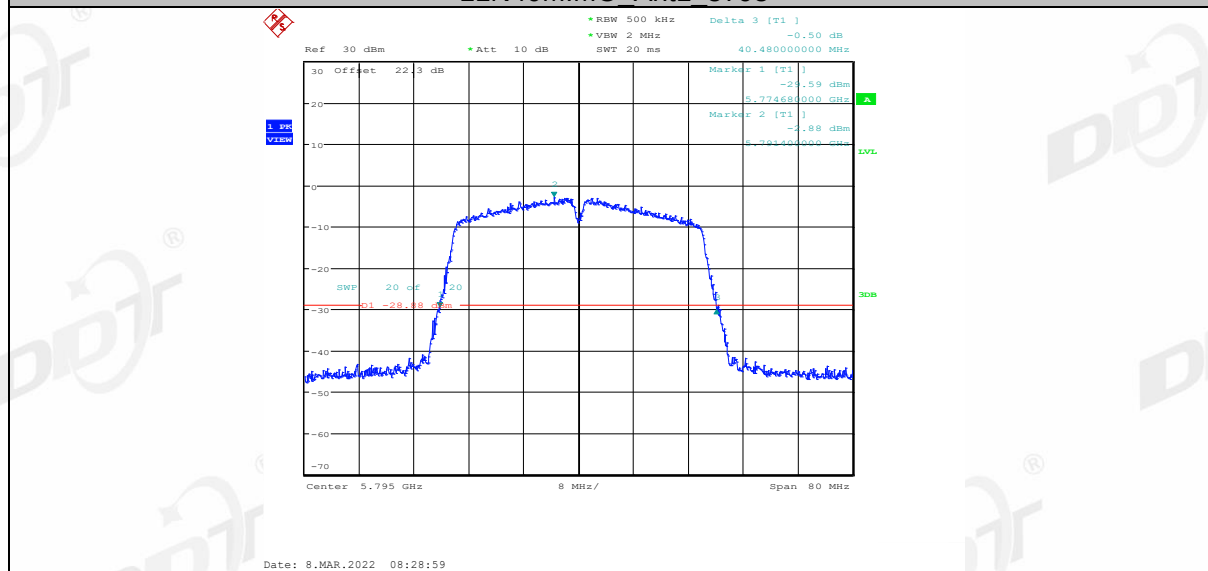
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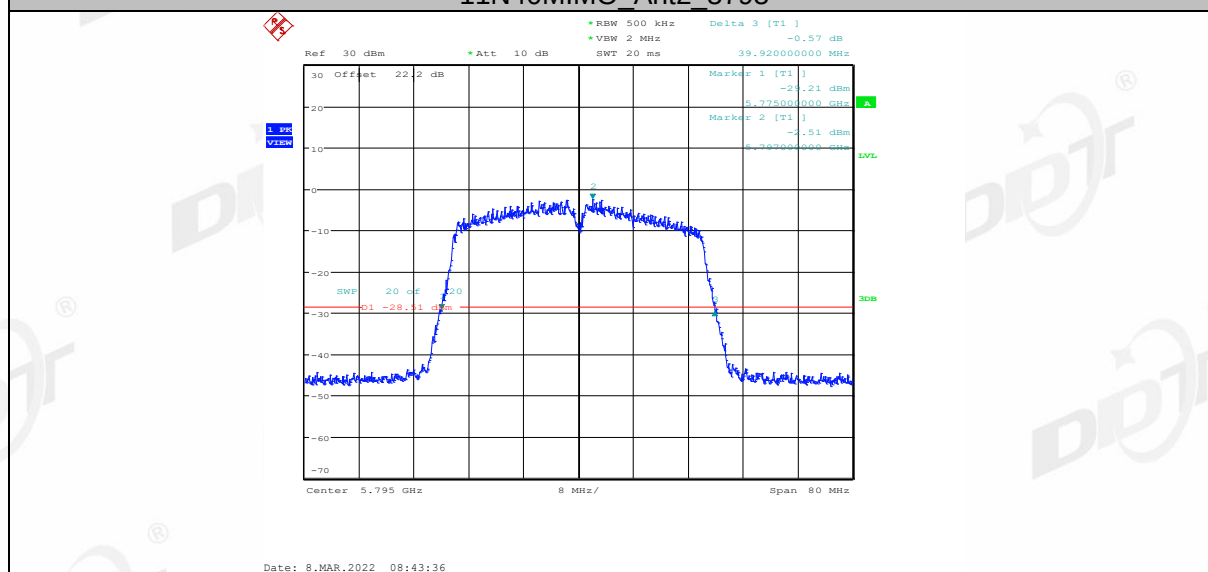
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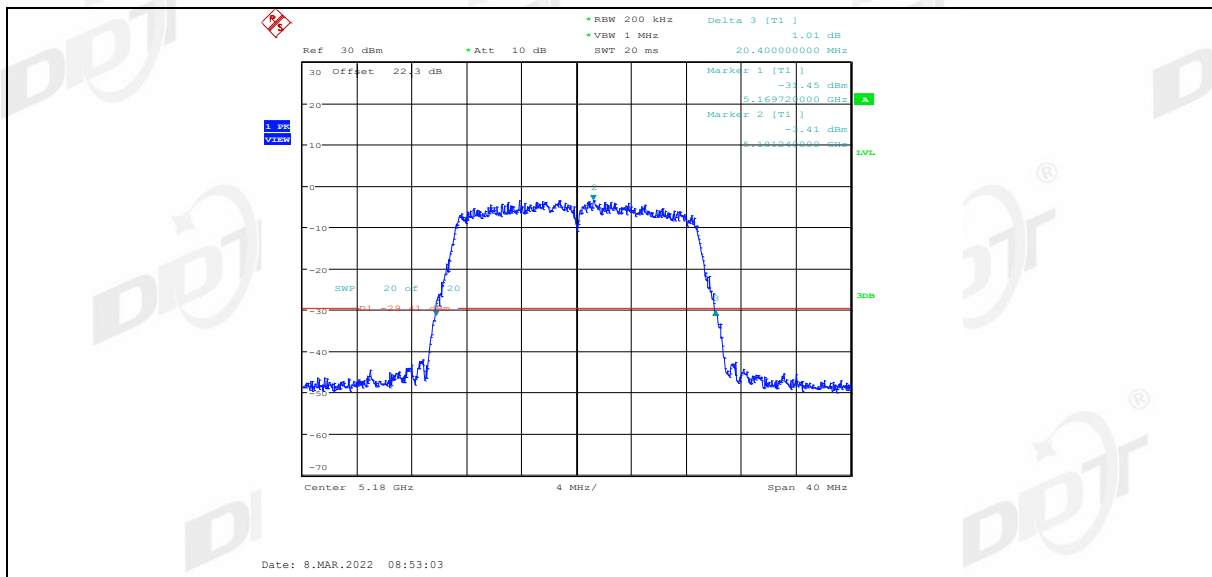
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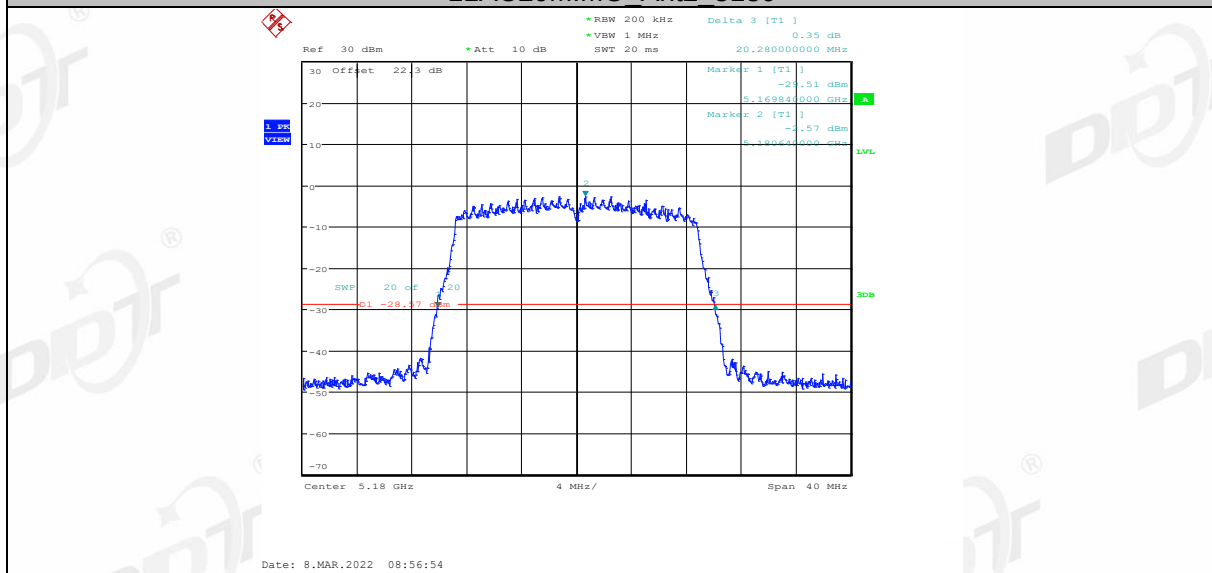
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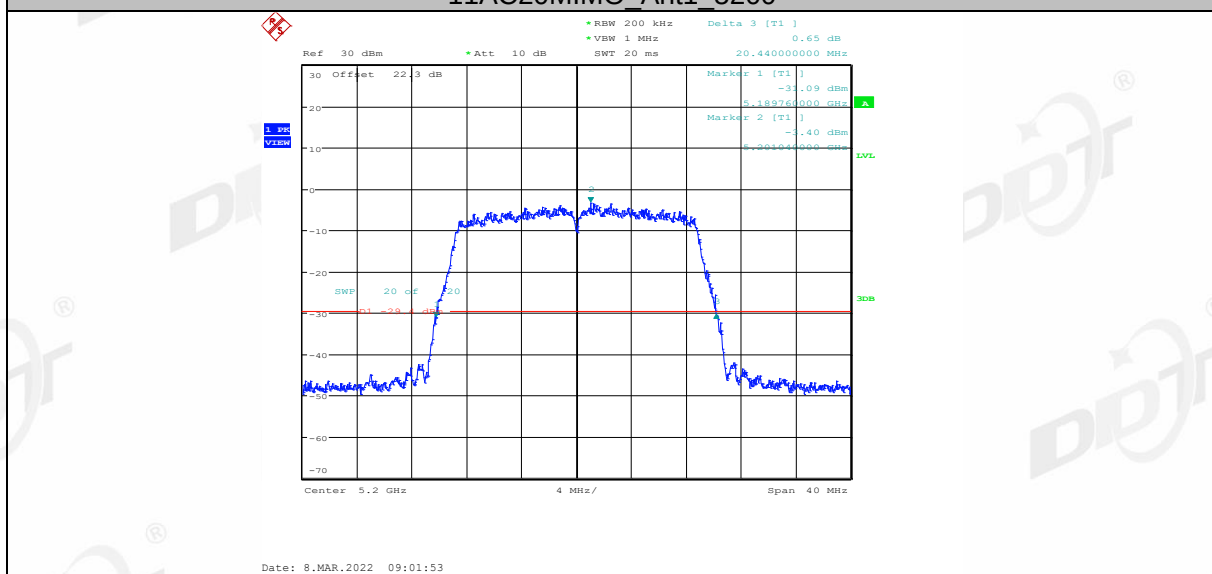
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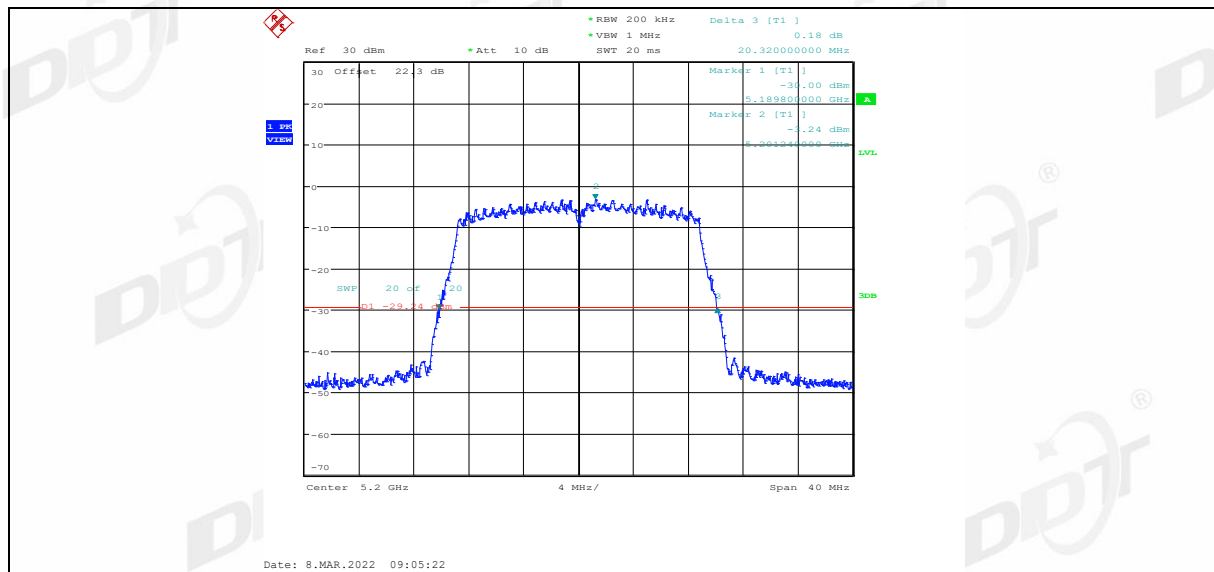
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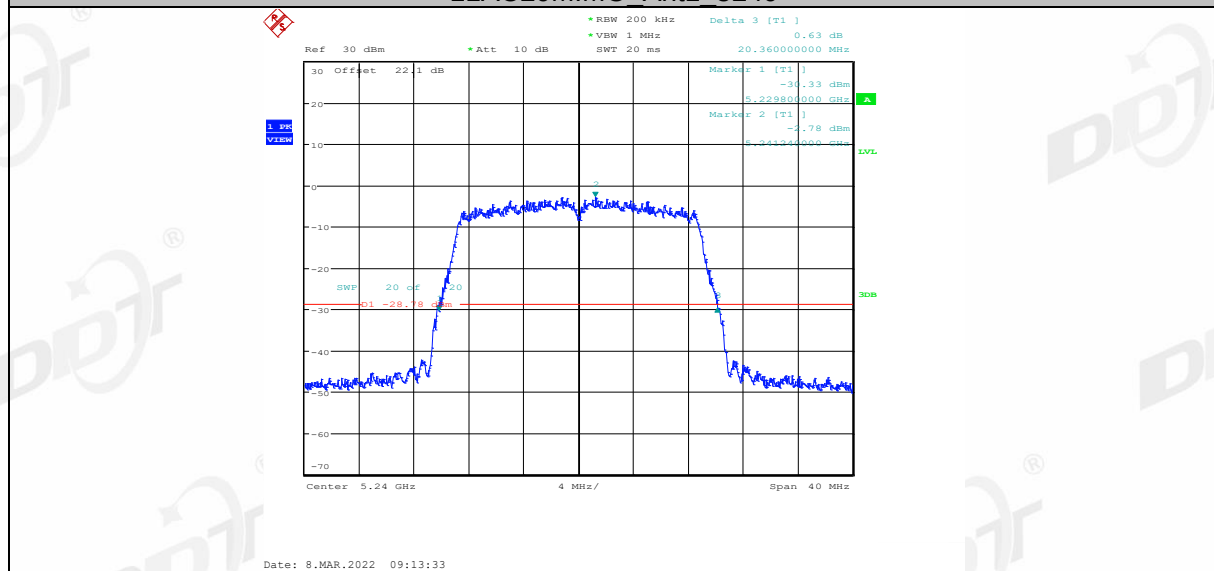
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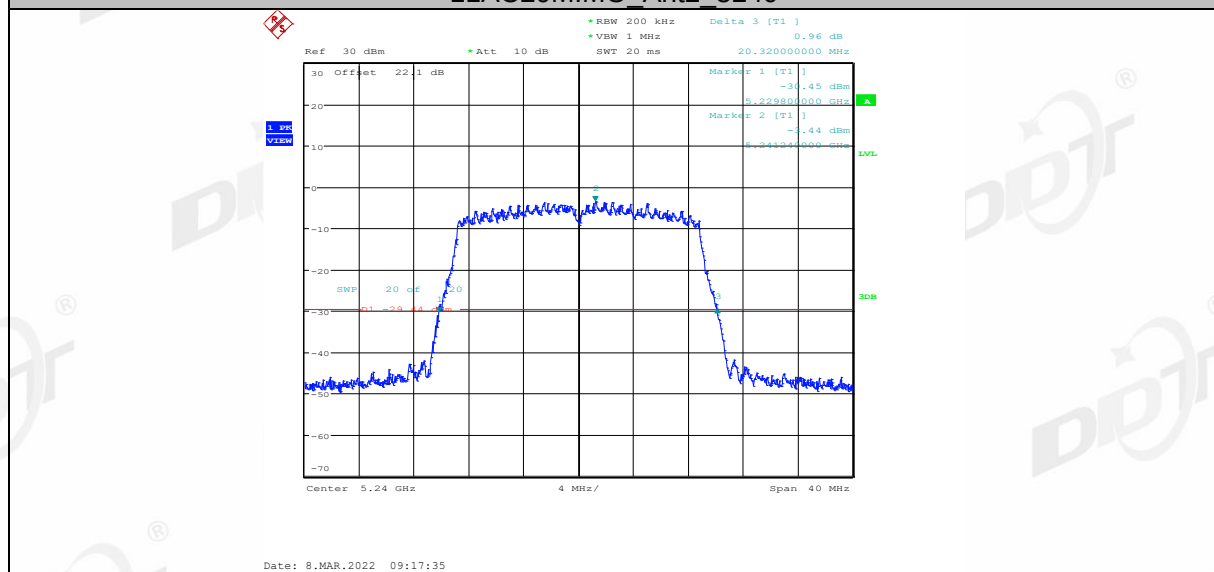
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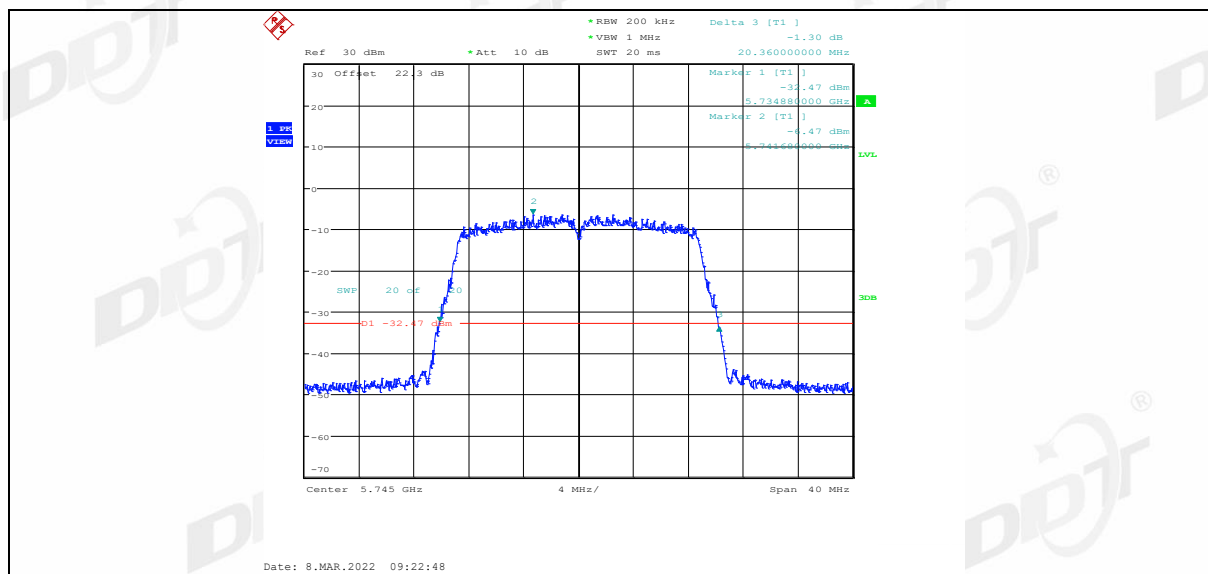
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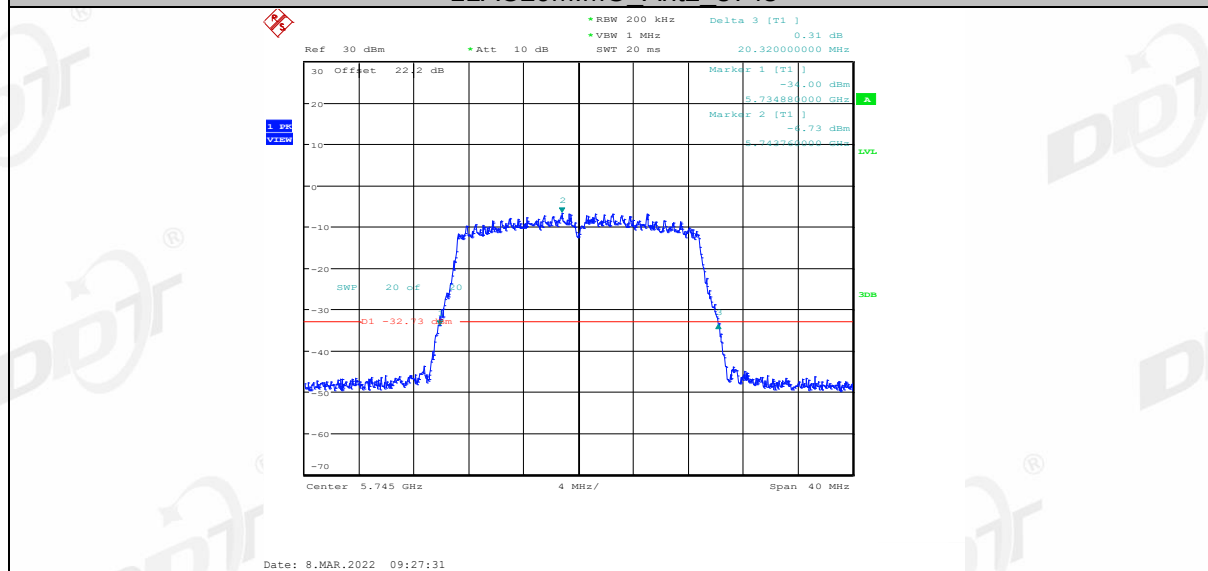
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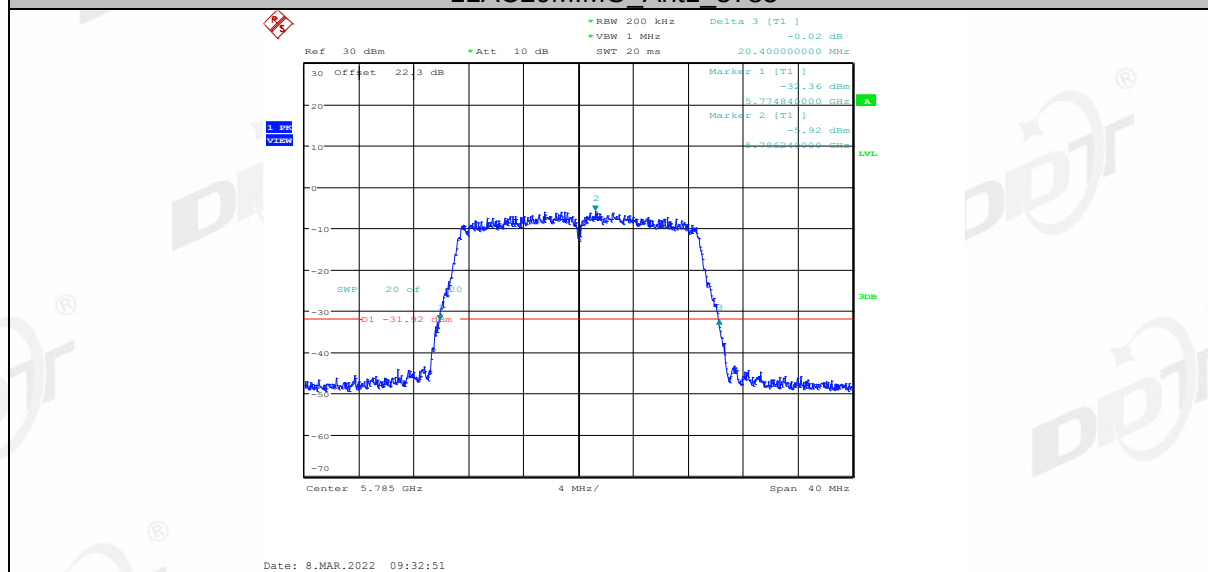
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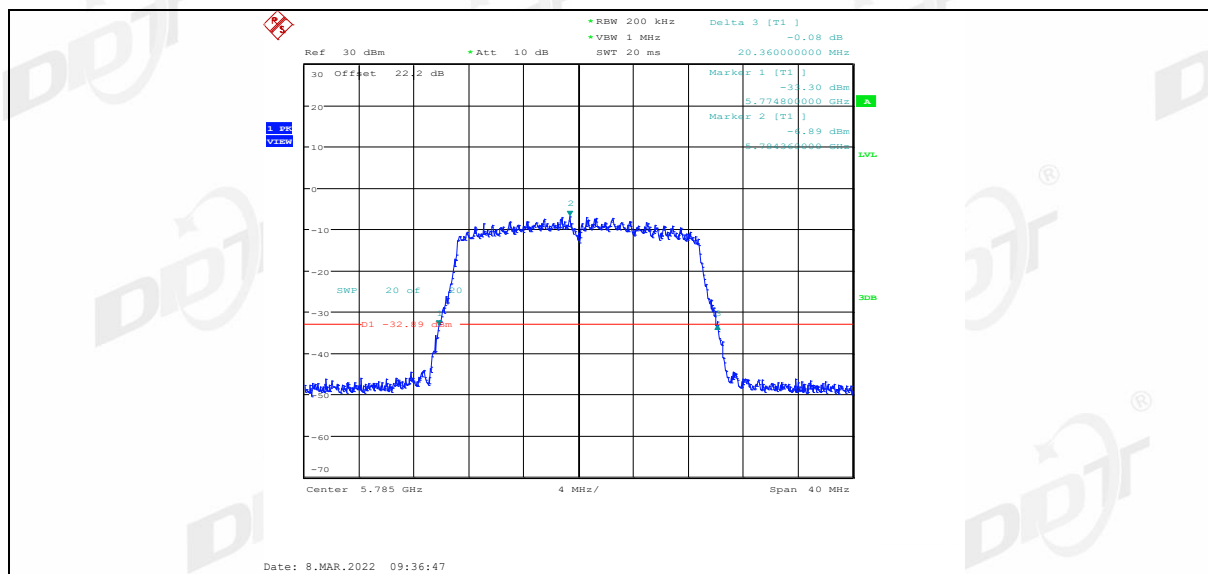
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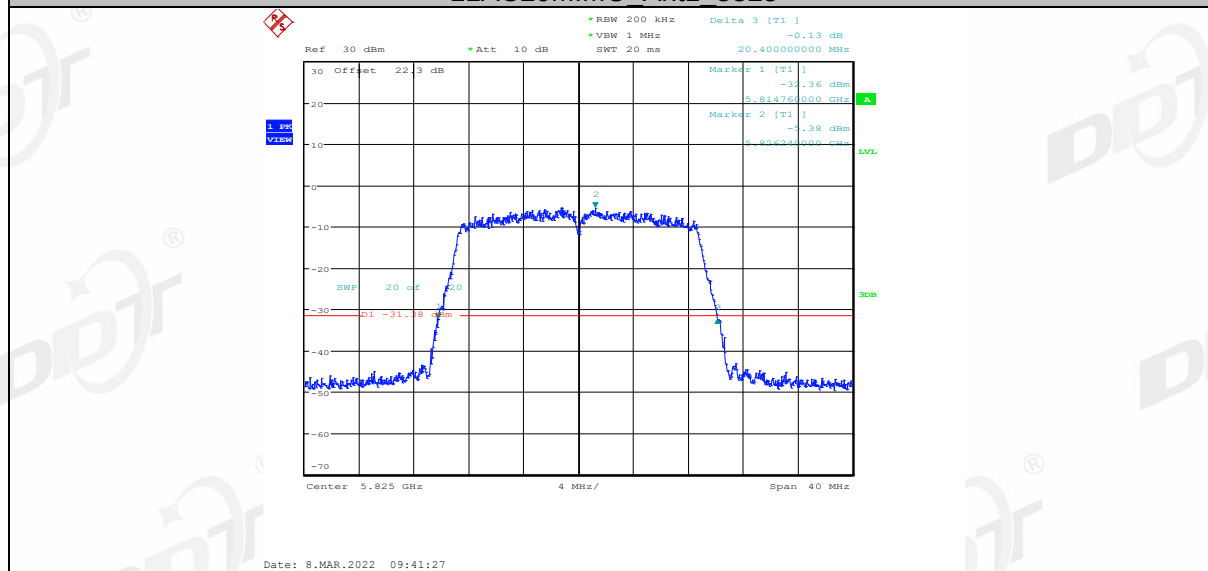
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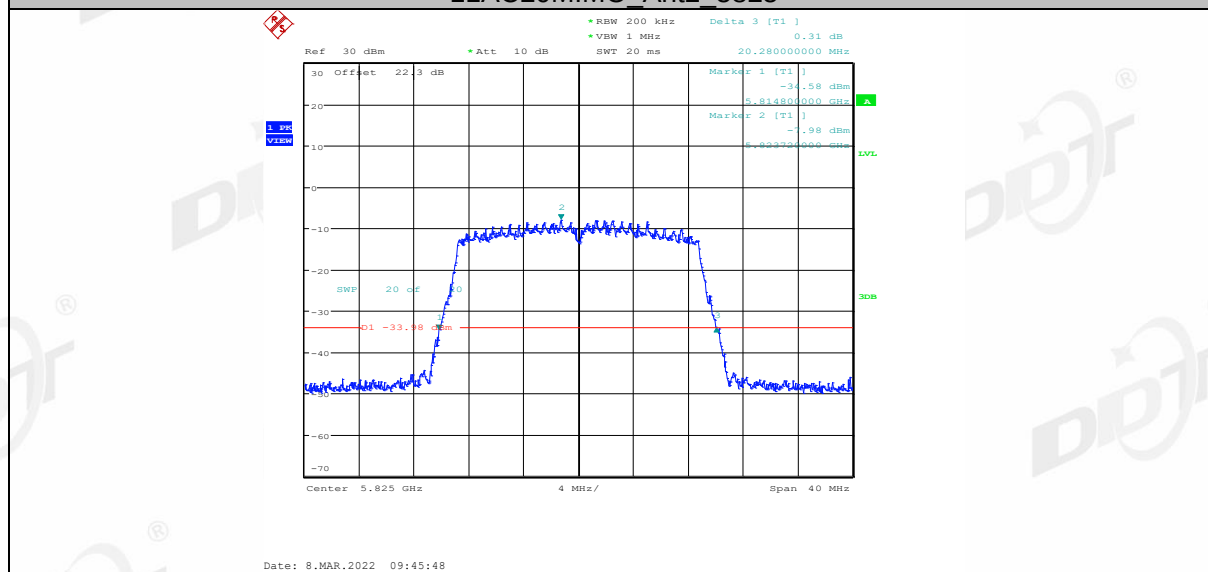
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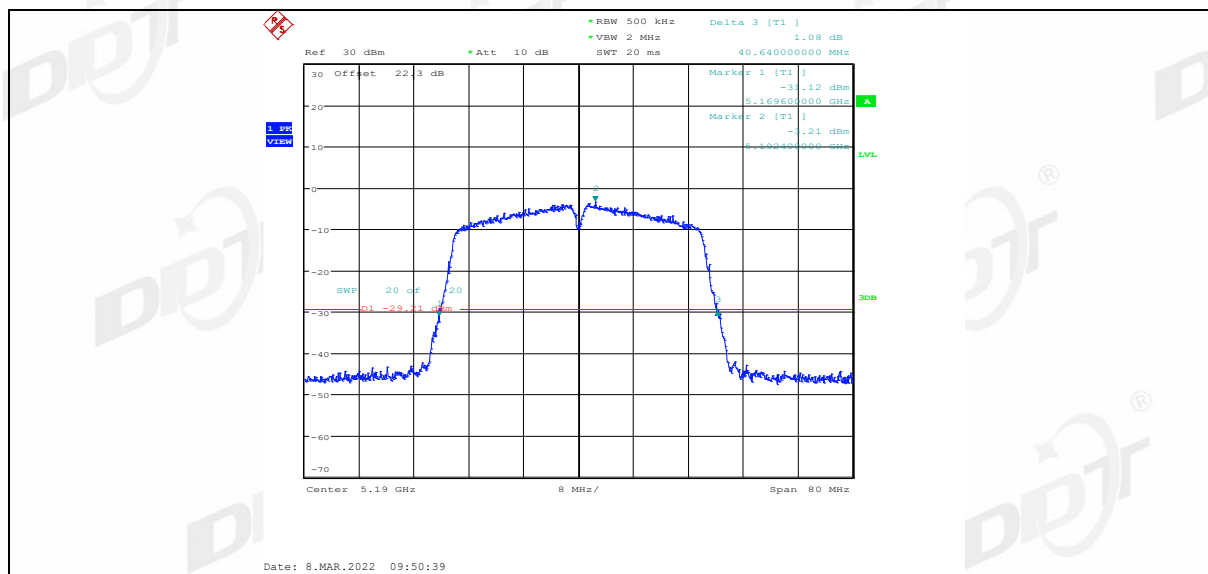
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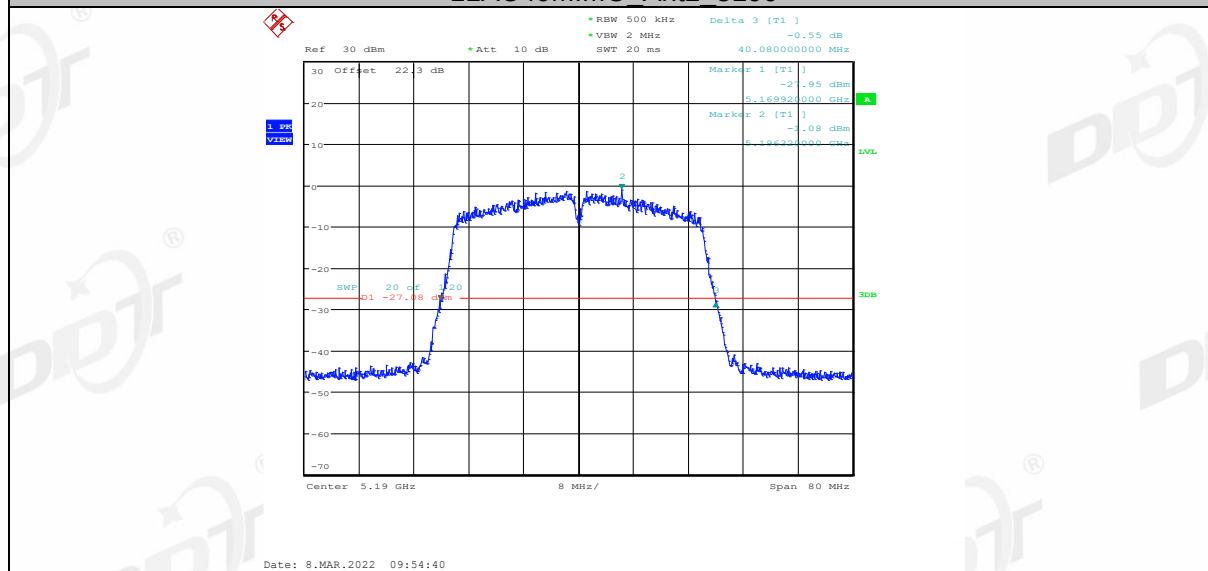
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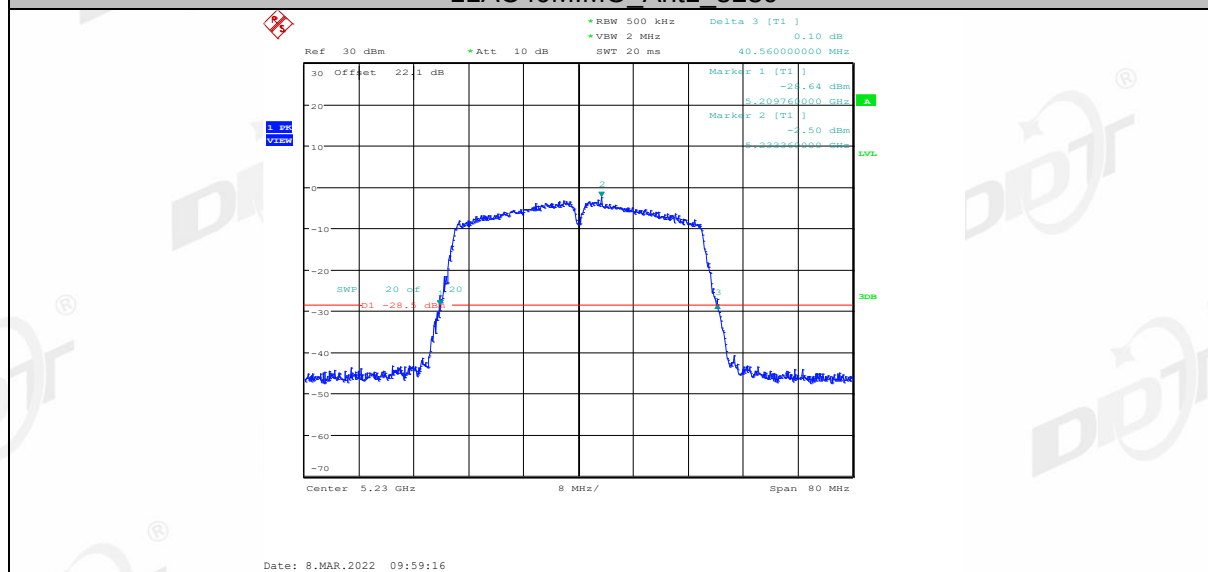
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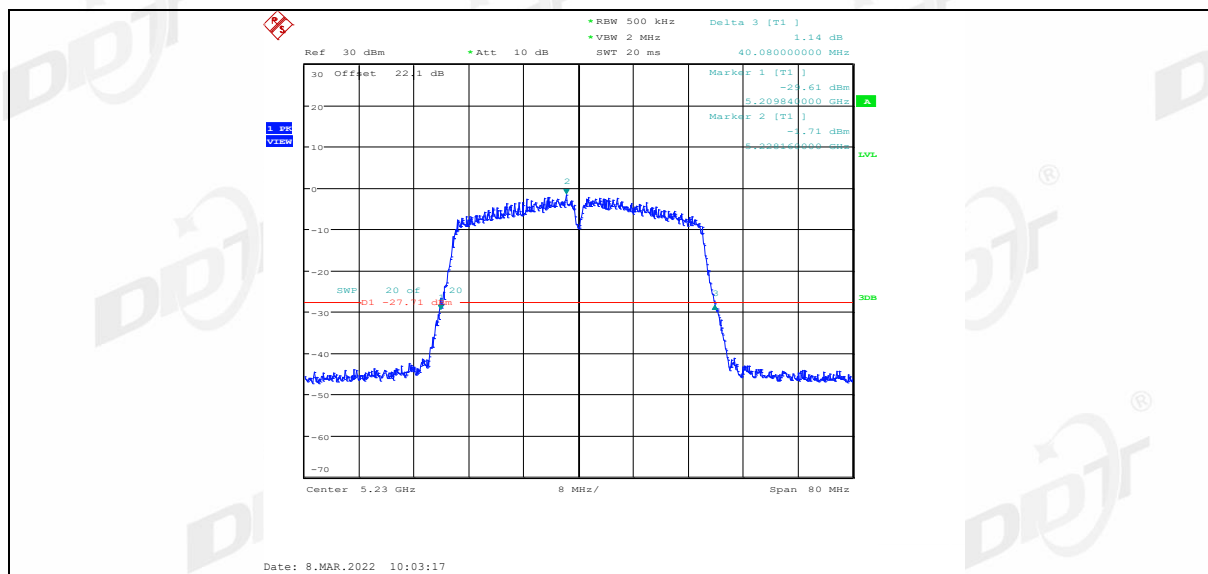
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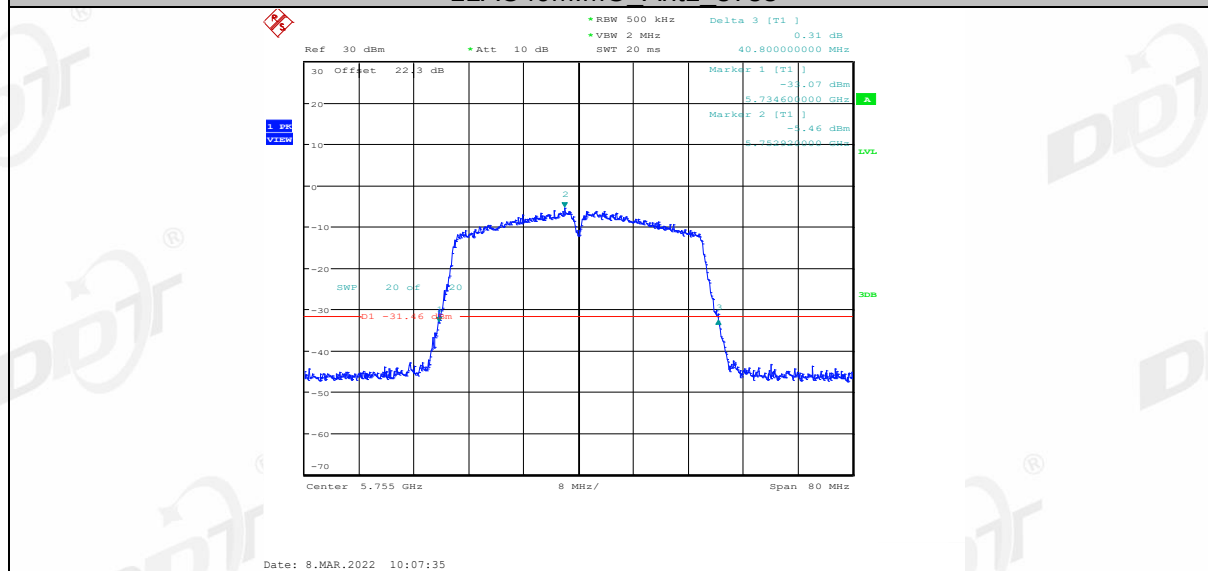
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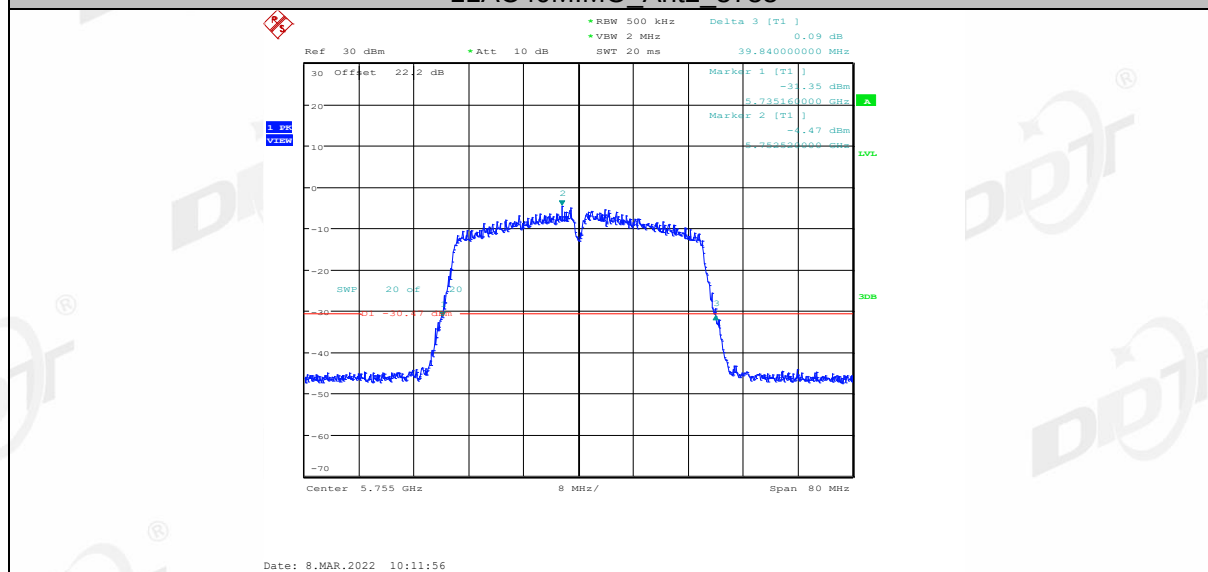
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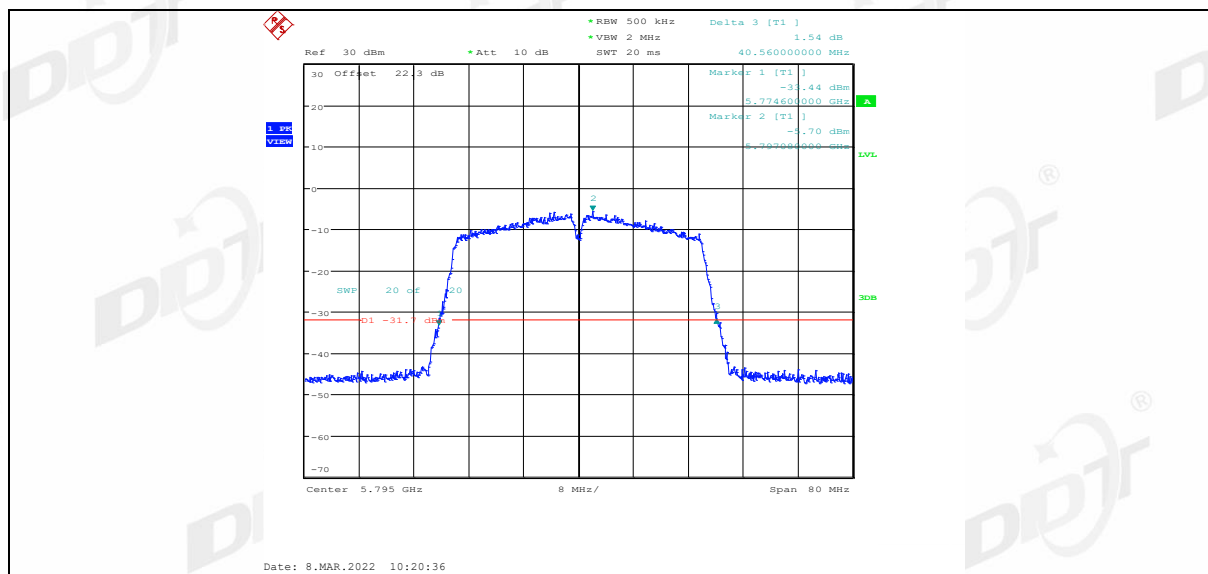
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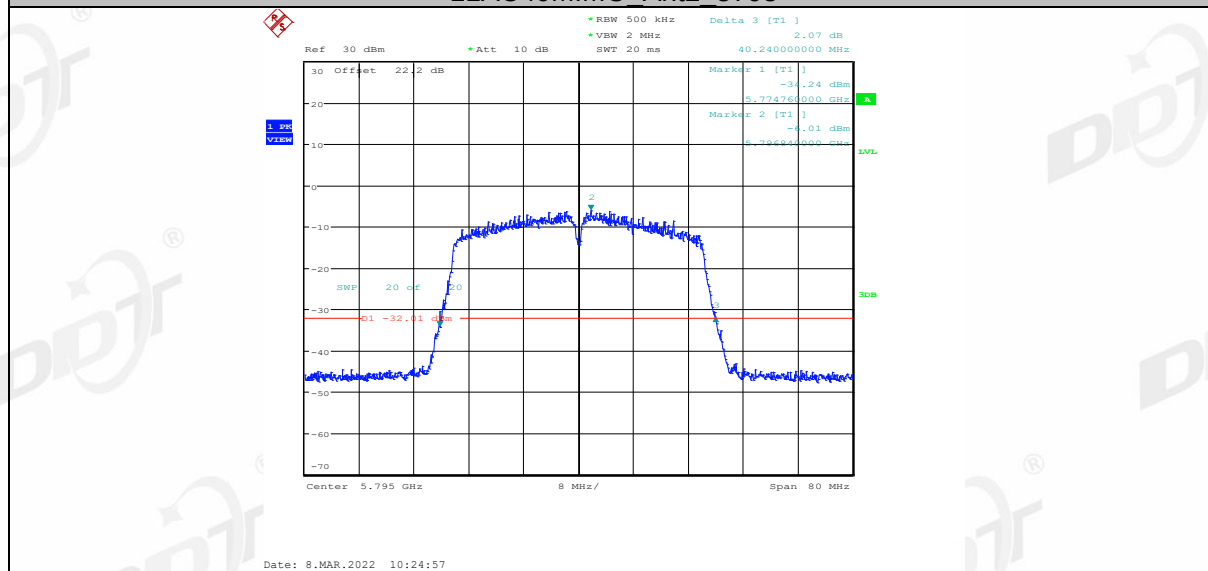
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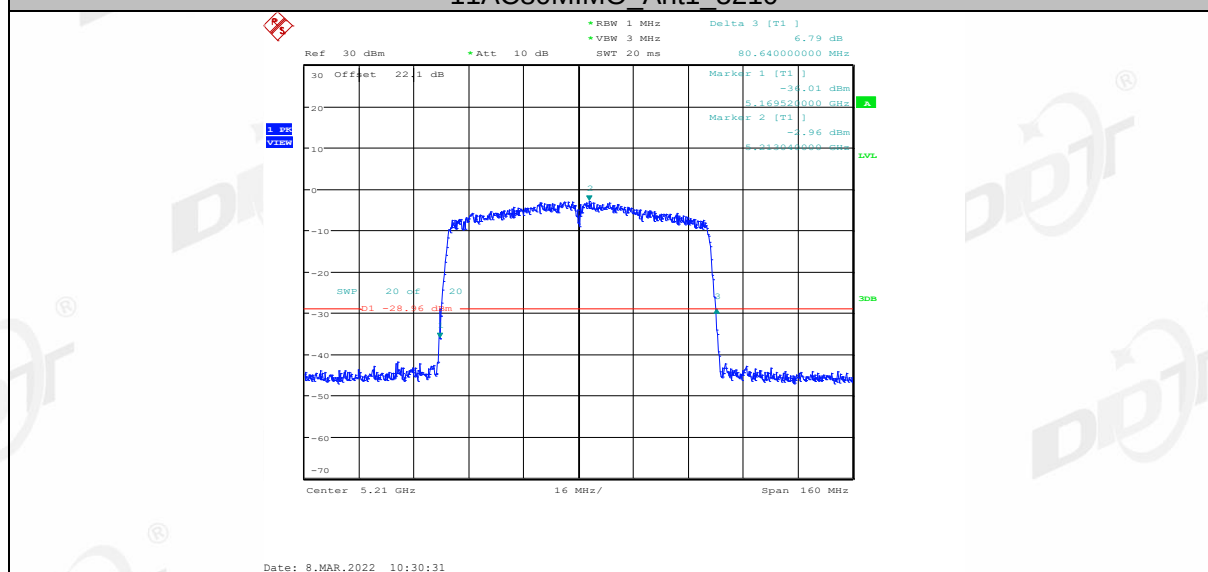
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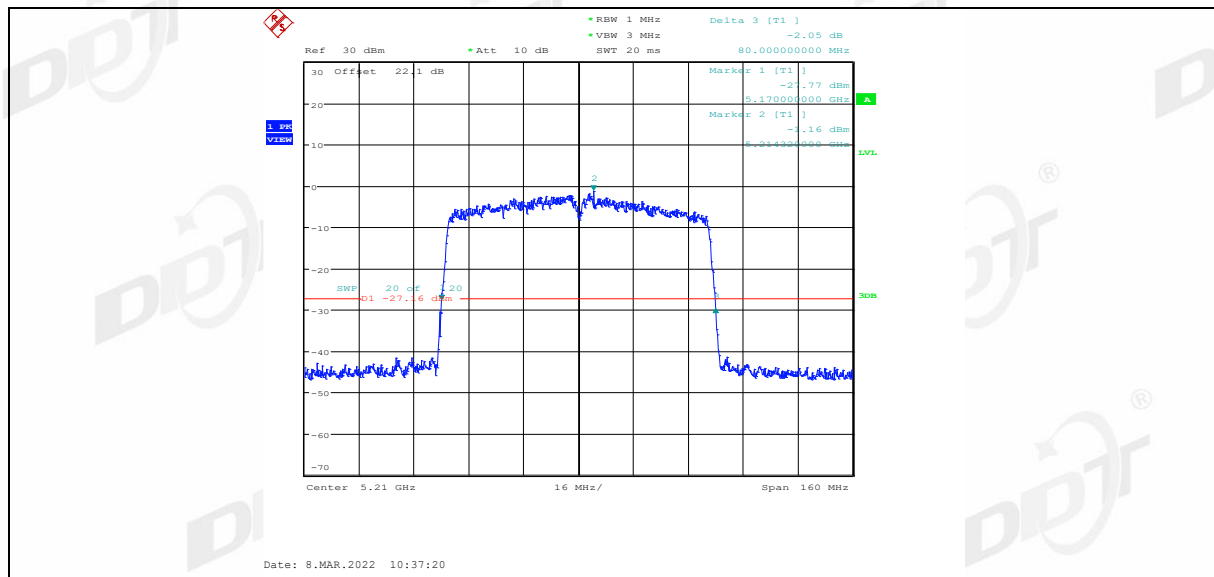
11AC40MIMO Ant2 5795



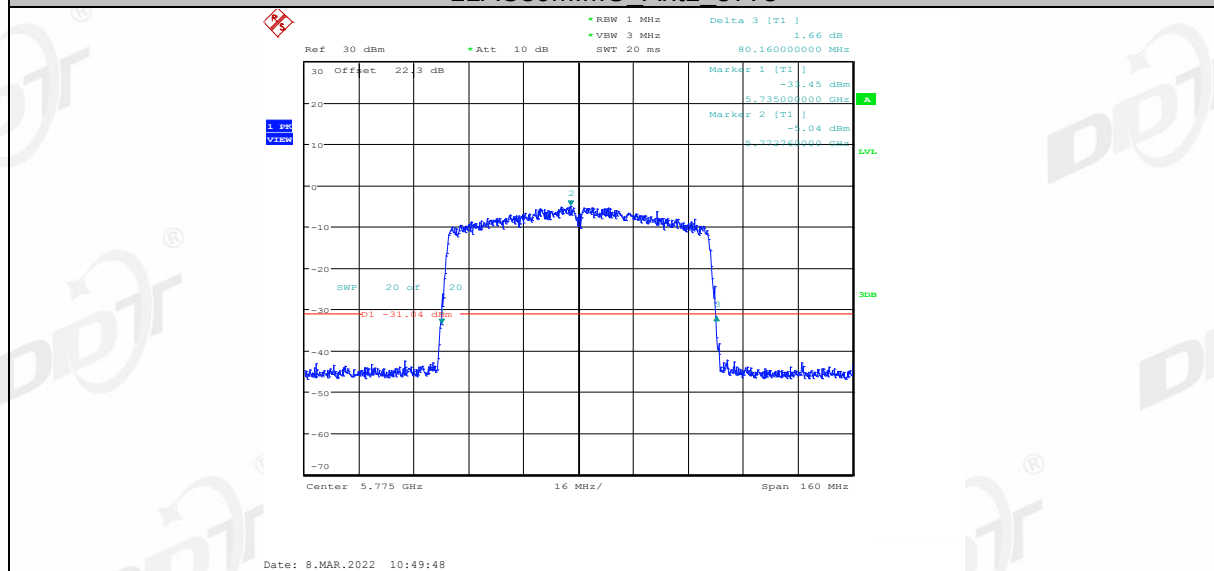
11AC80MIMO Ant1 5210



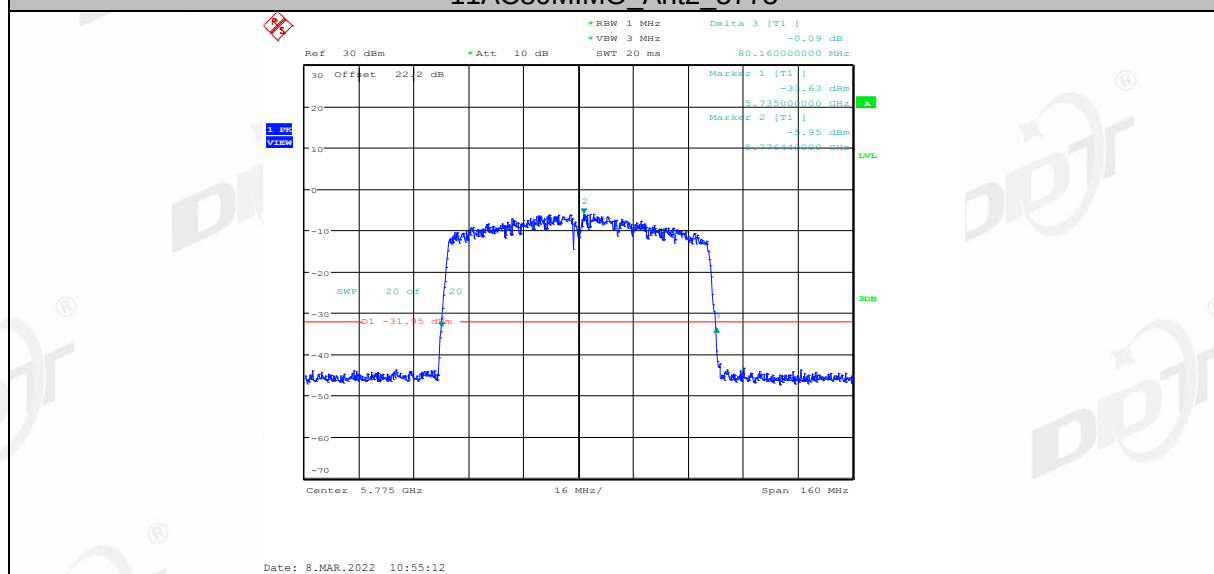
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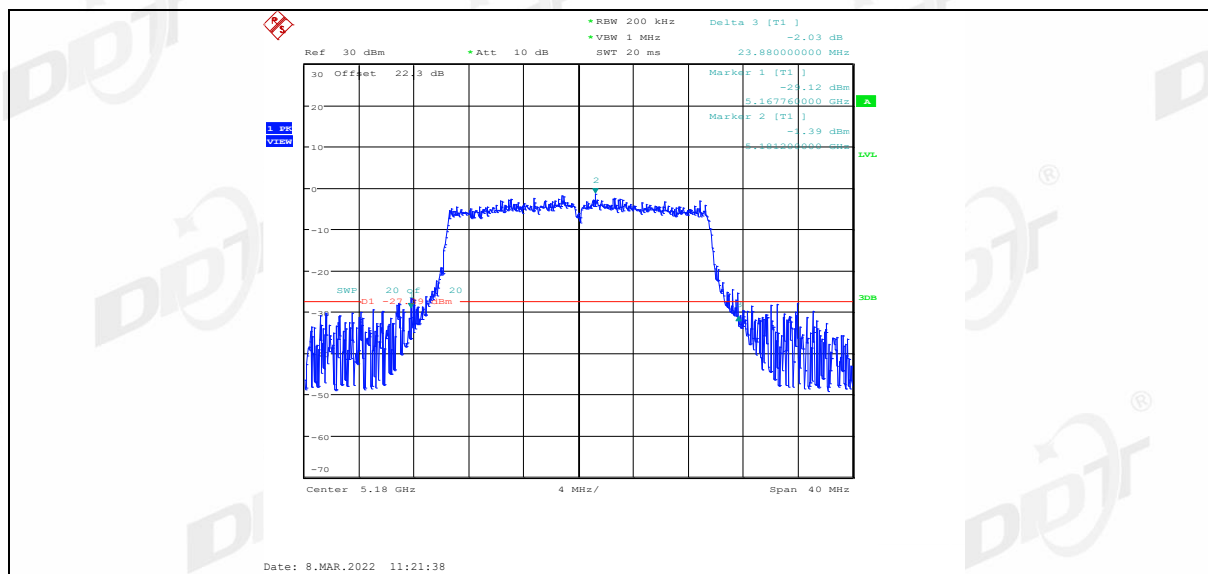
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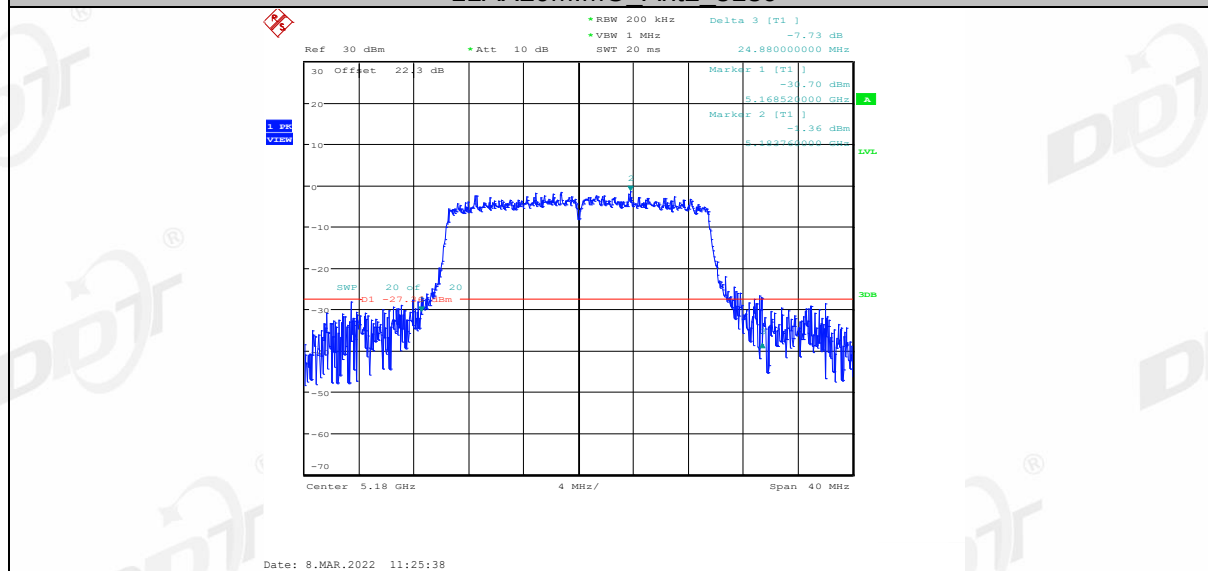
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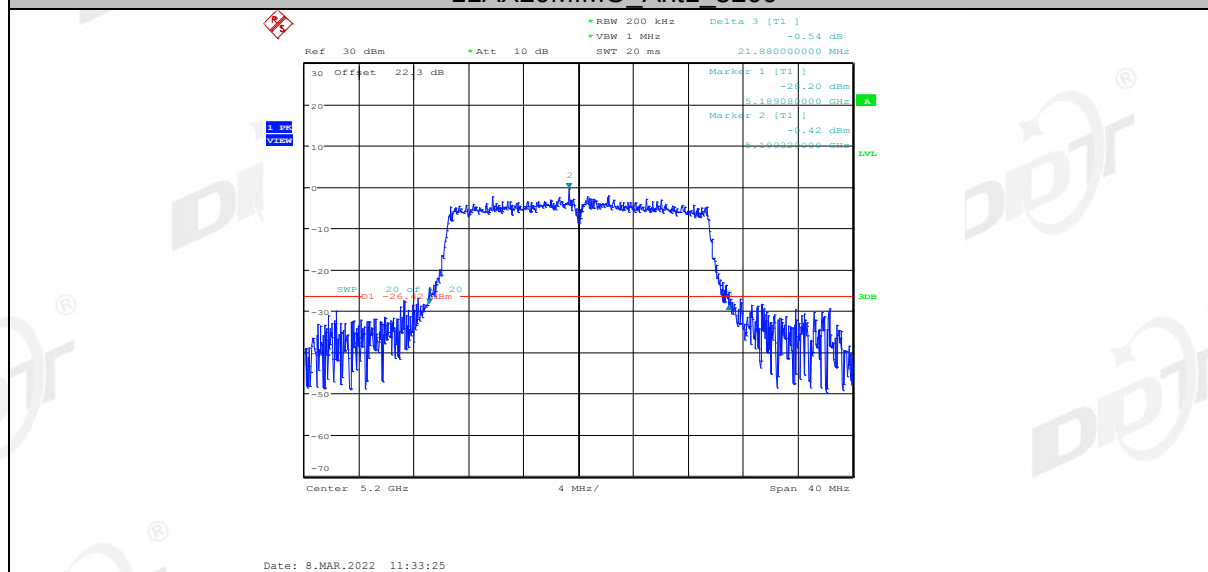
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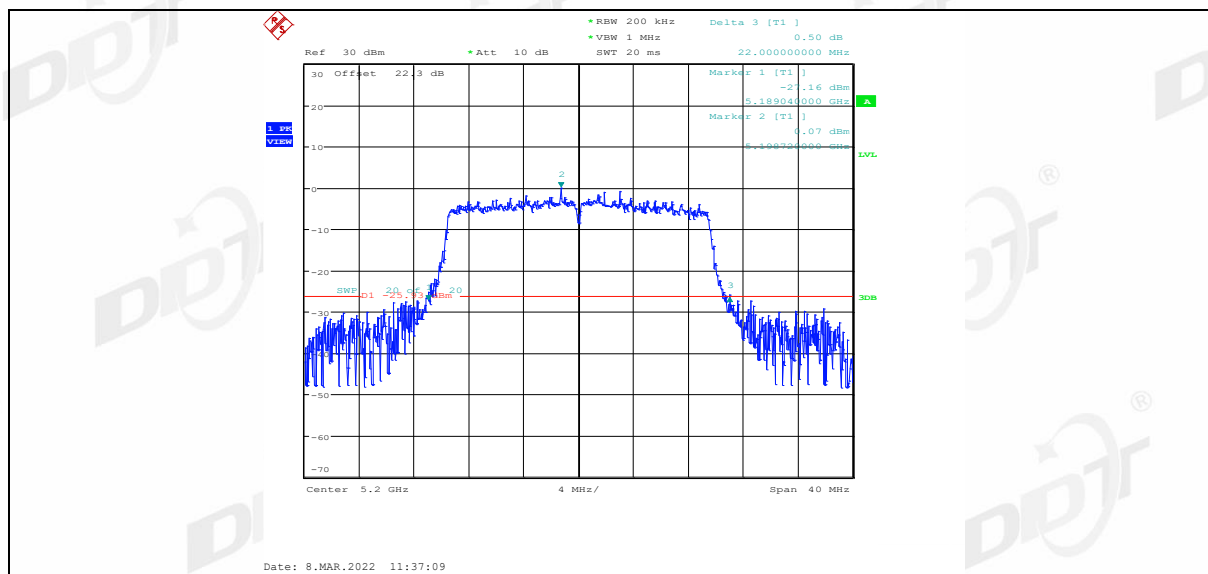
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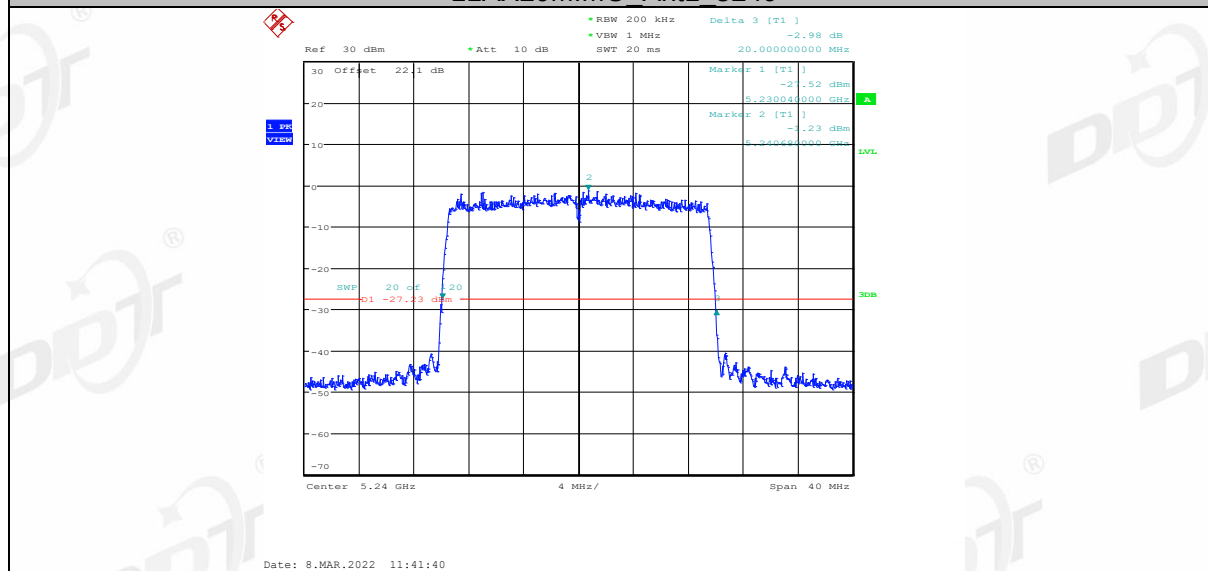
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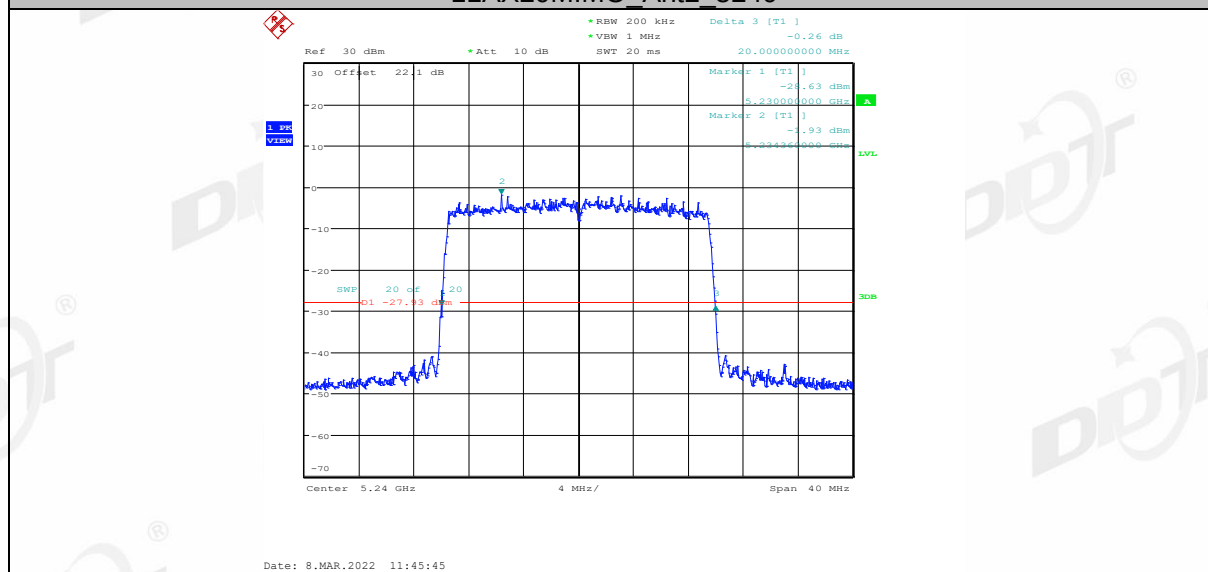
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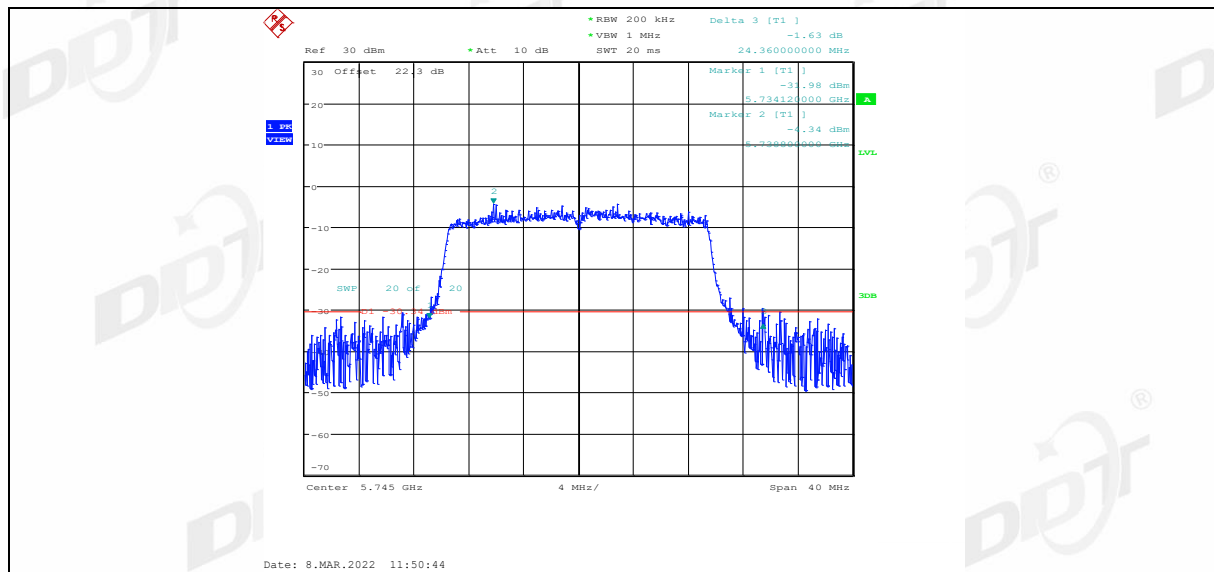
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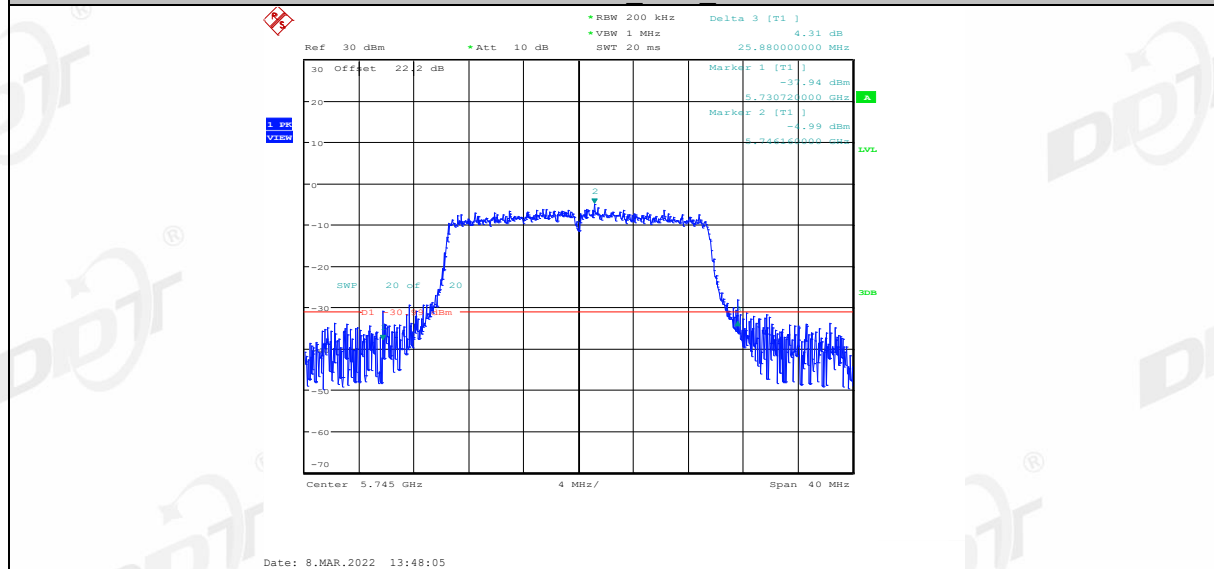
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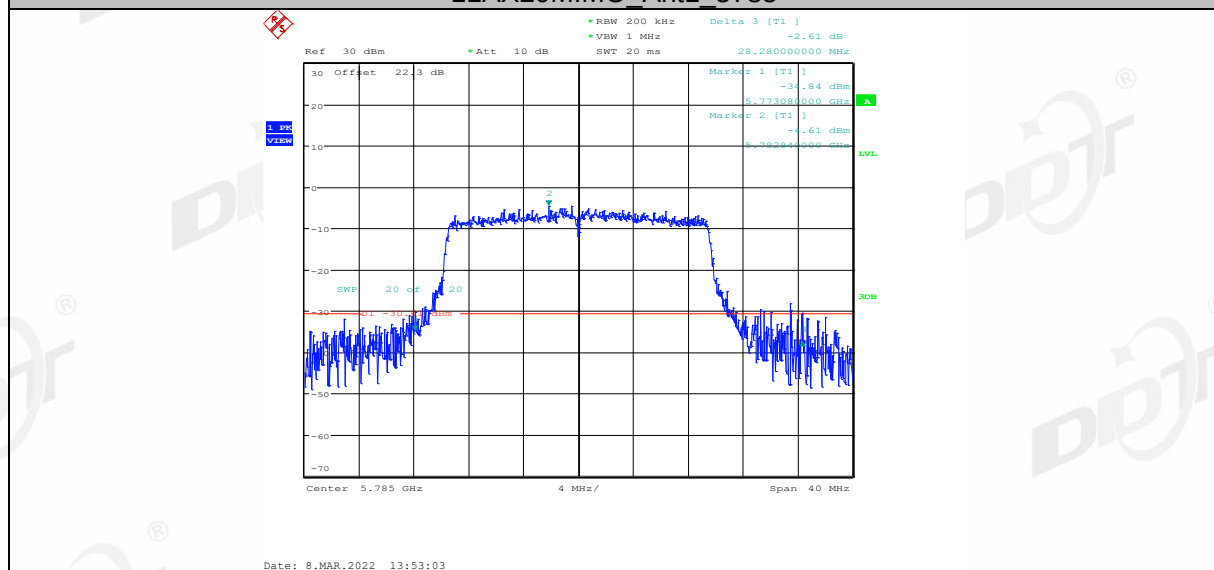
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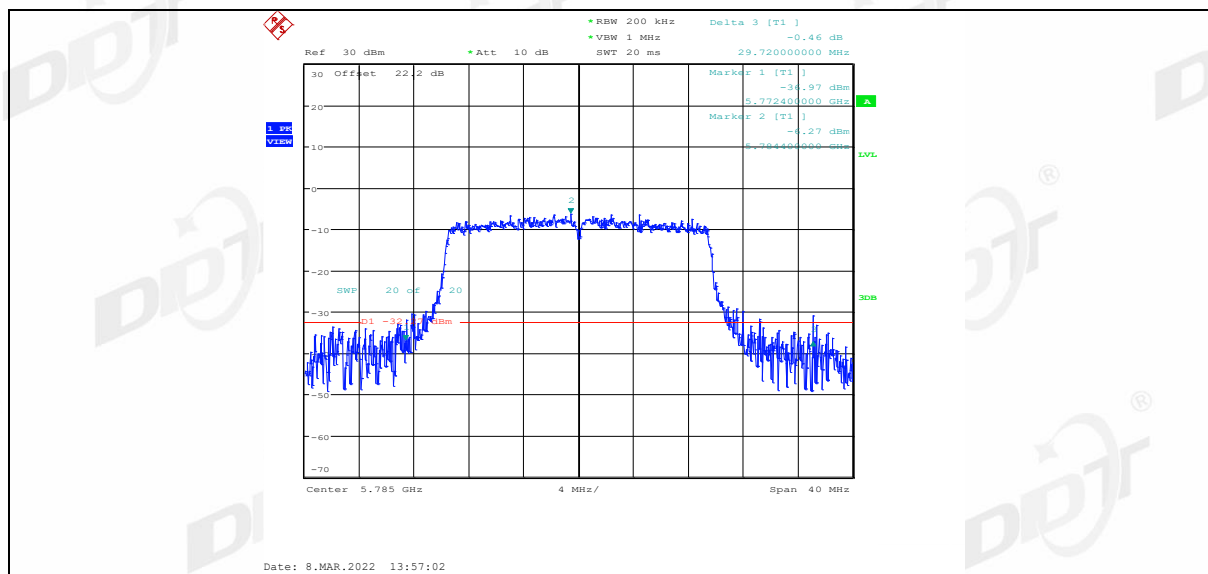
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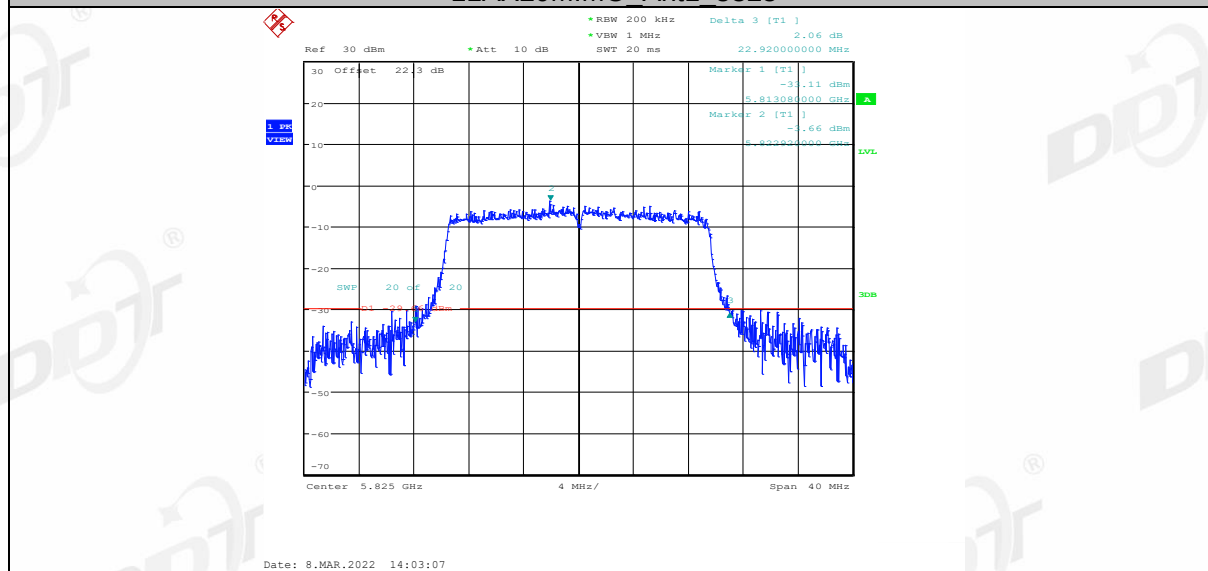
11AX20MIMO Ant1 5785



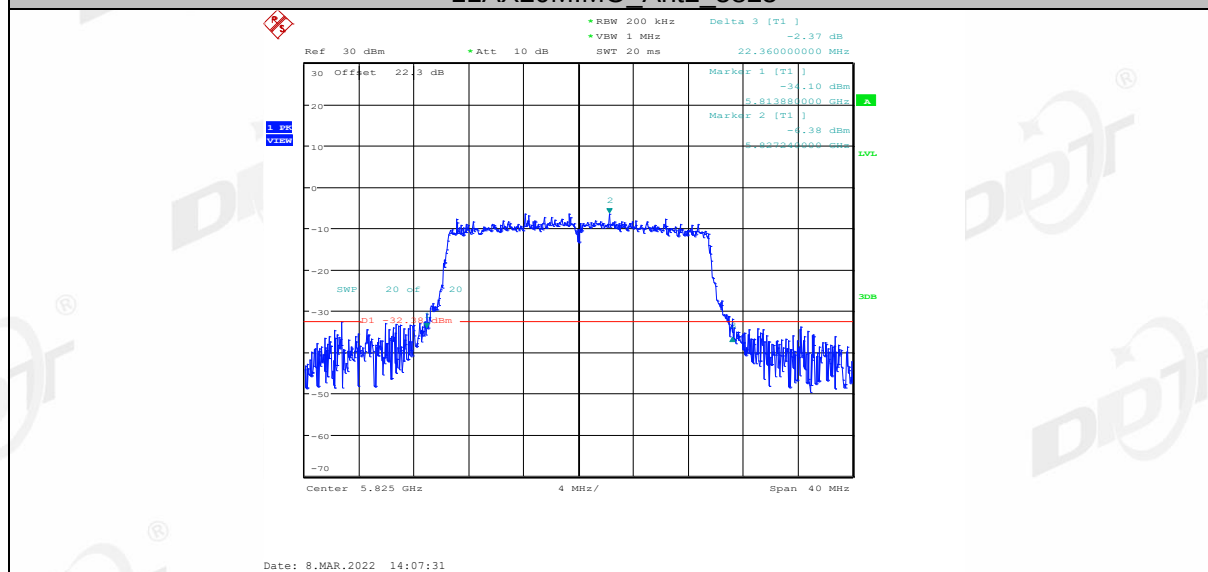
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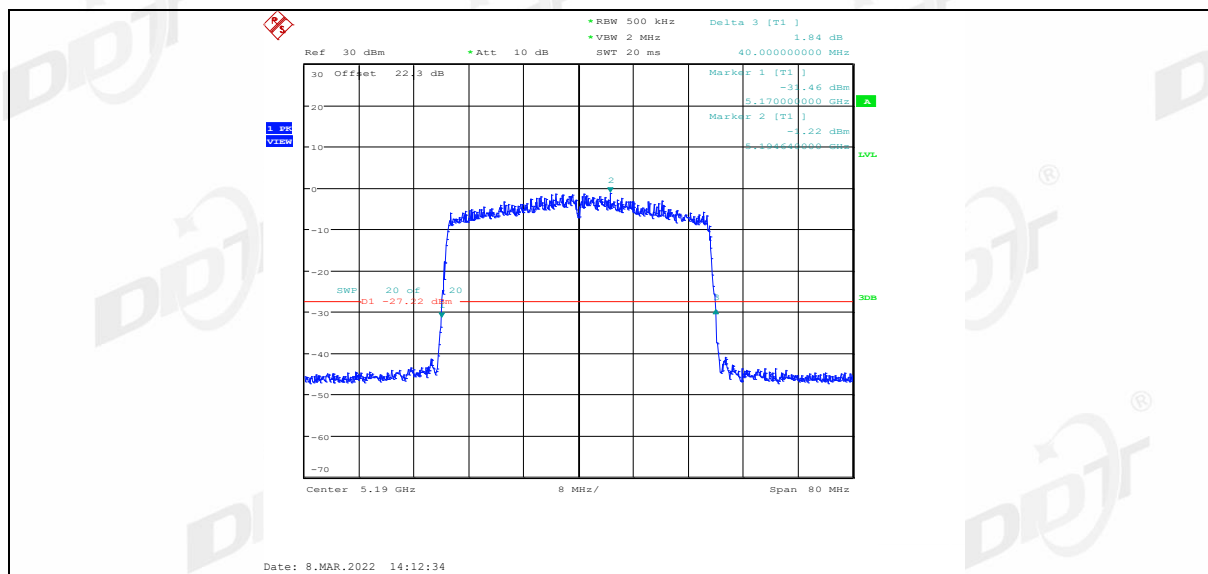
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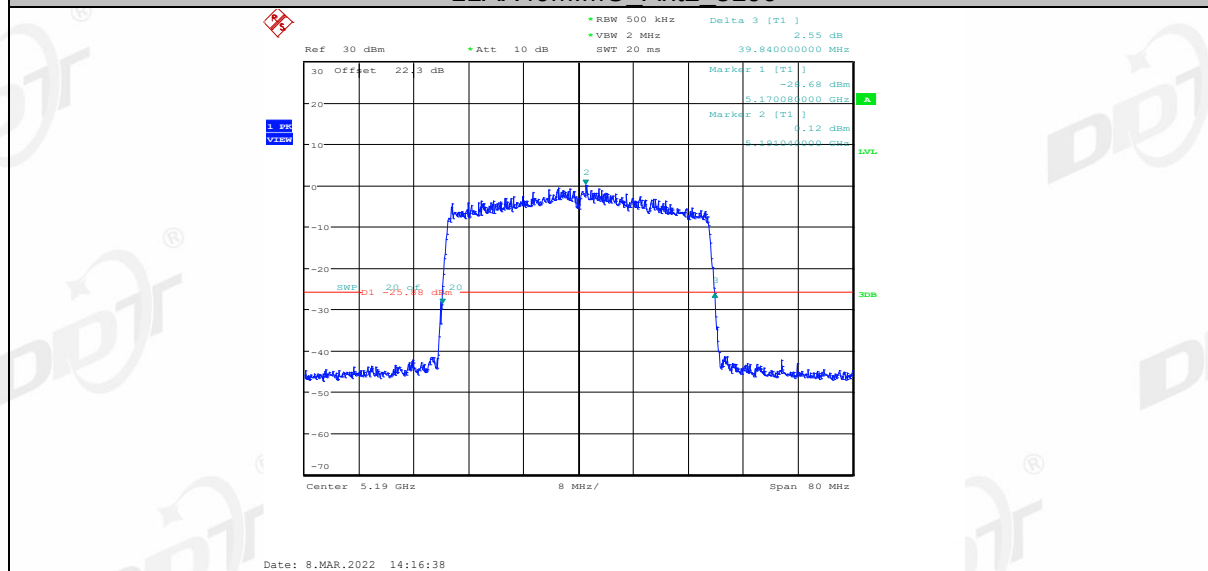
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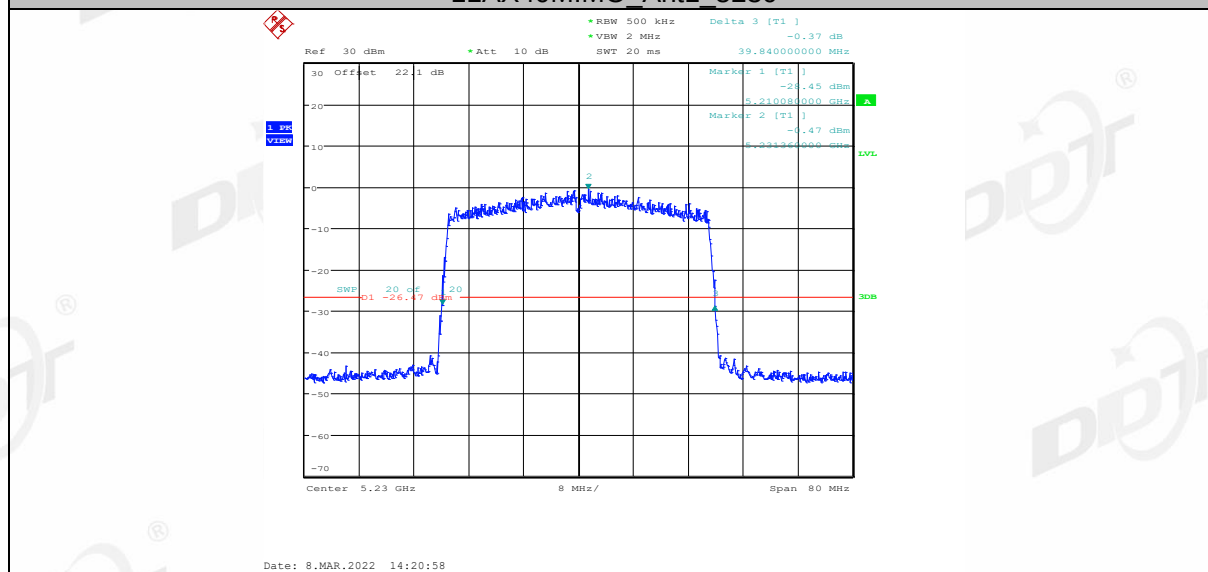
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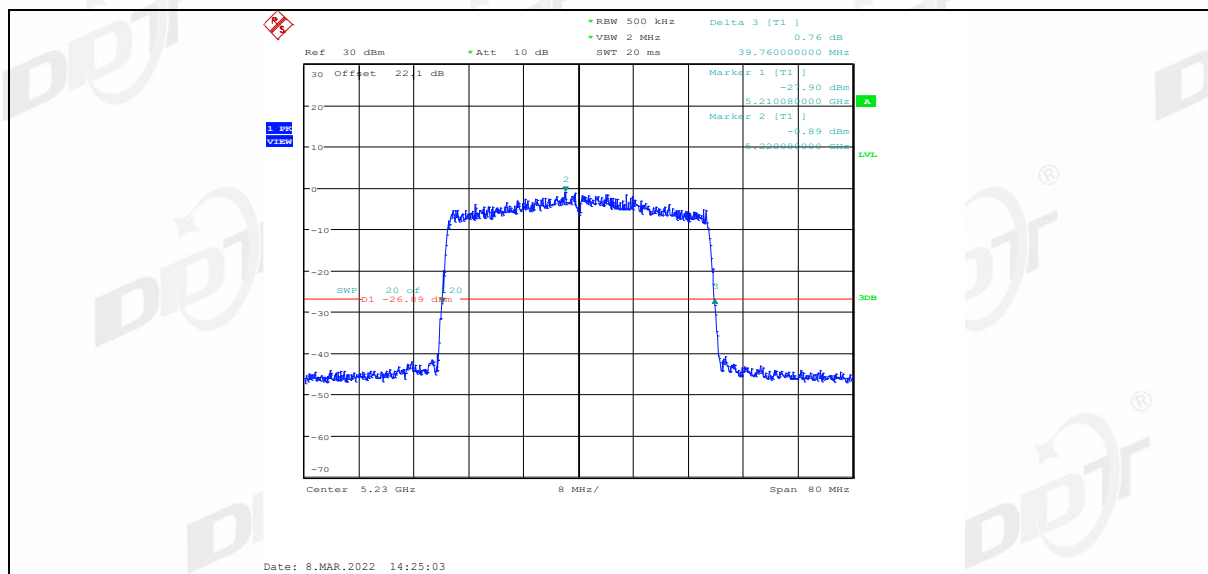
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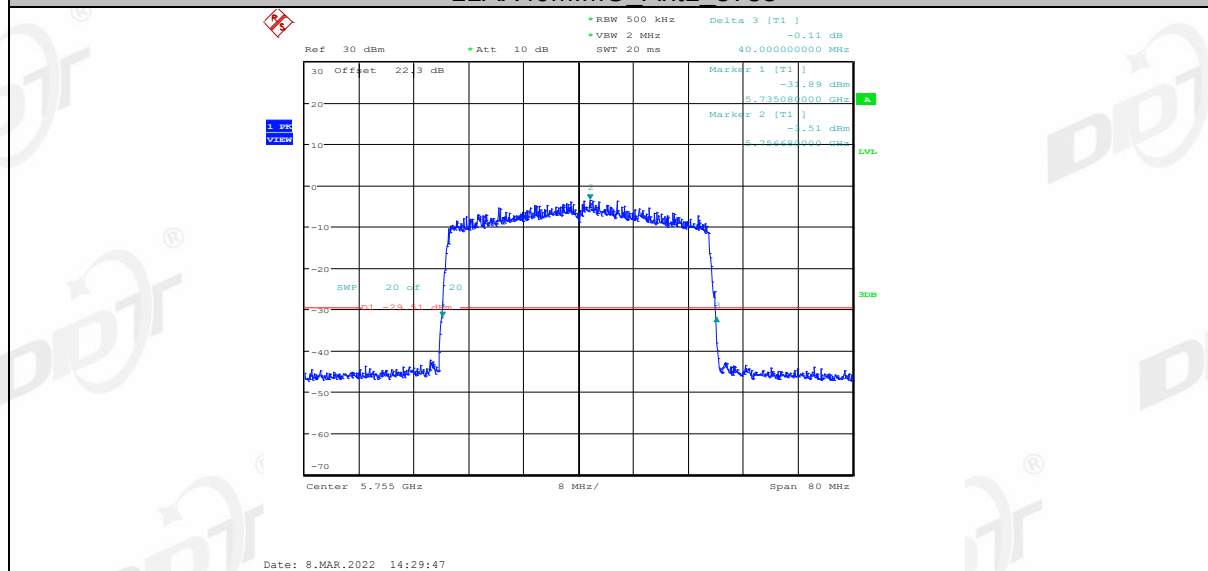
11AX40MIMO Ant1 5230



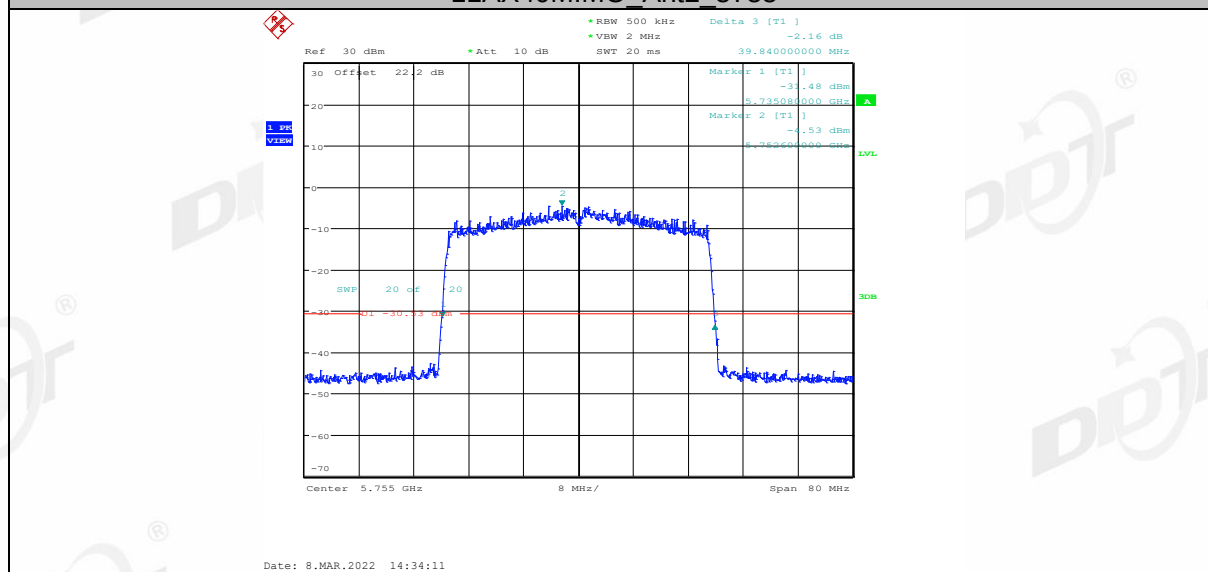
11AX40MIMO Ant2 5230



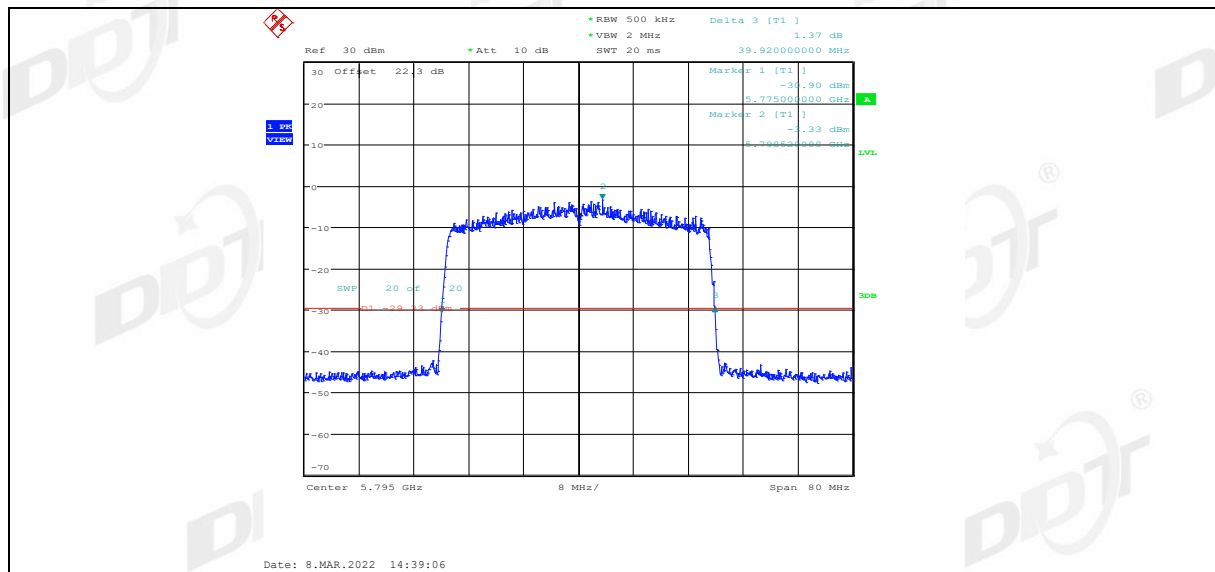
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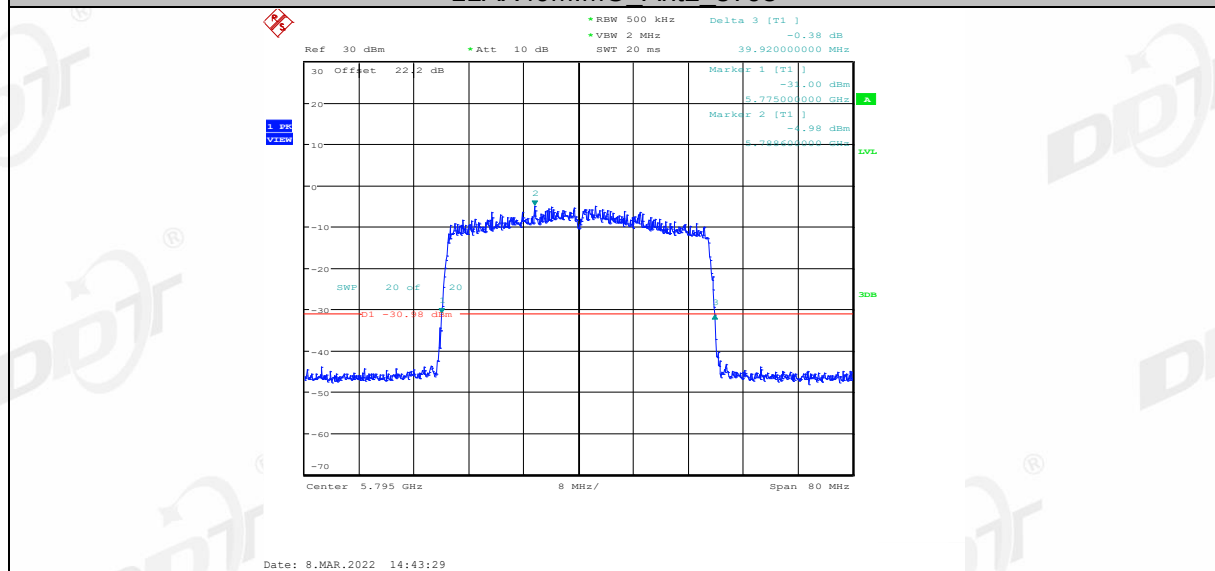
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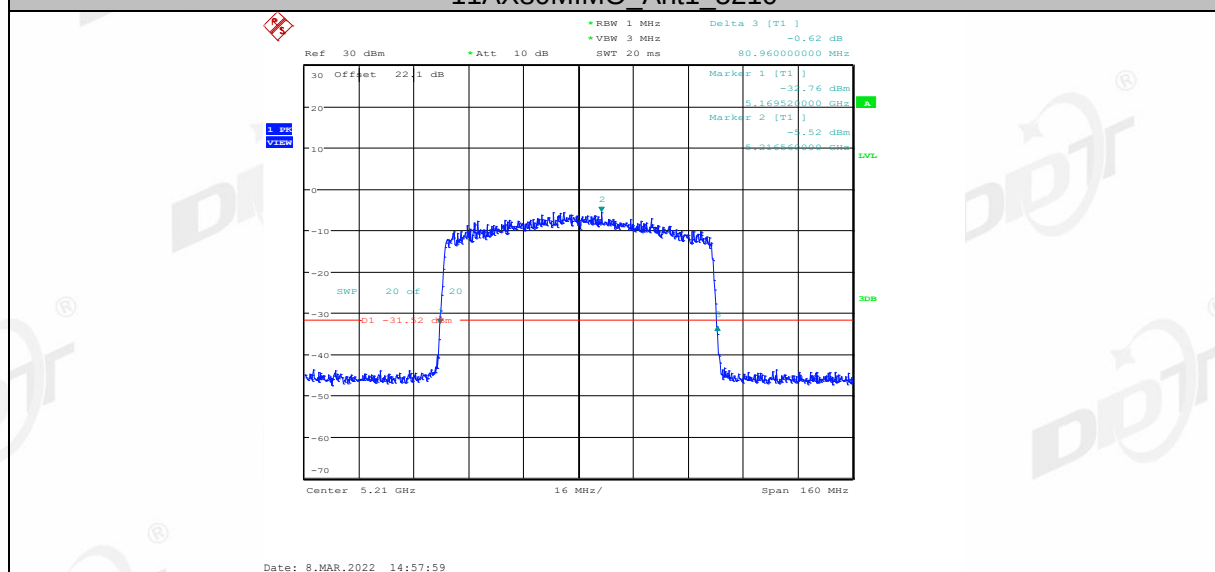
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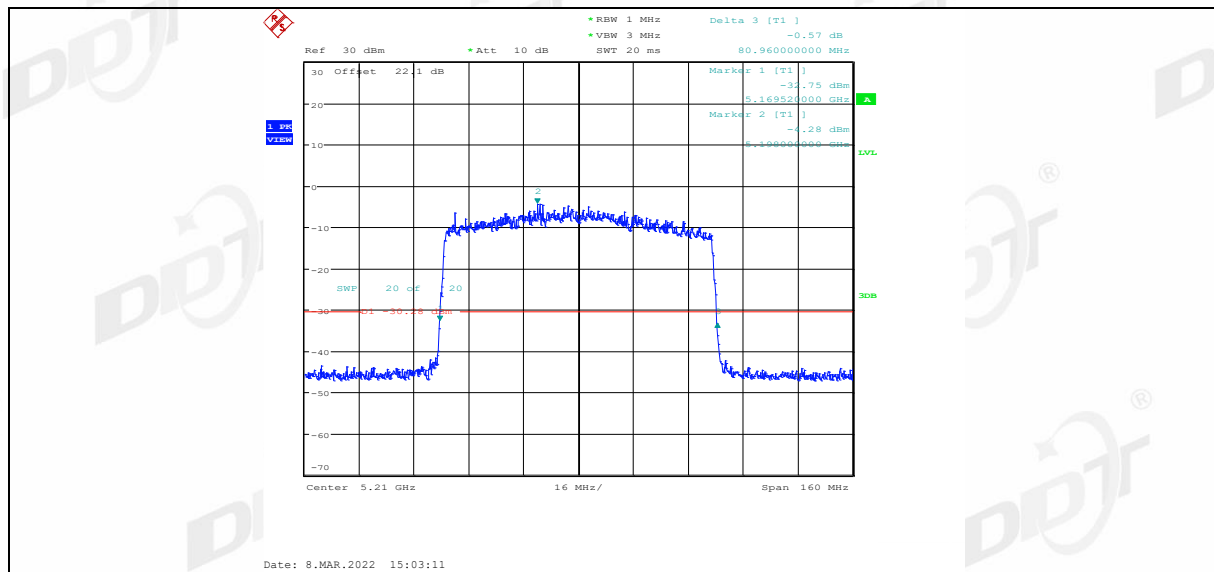
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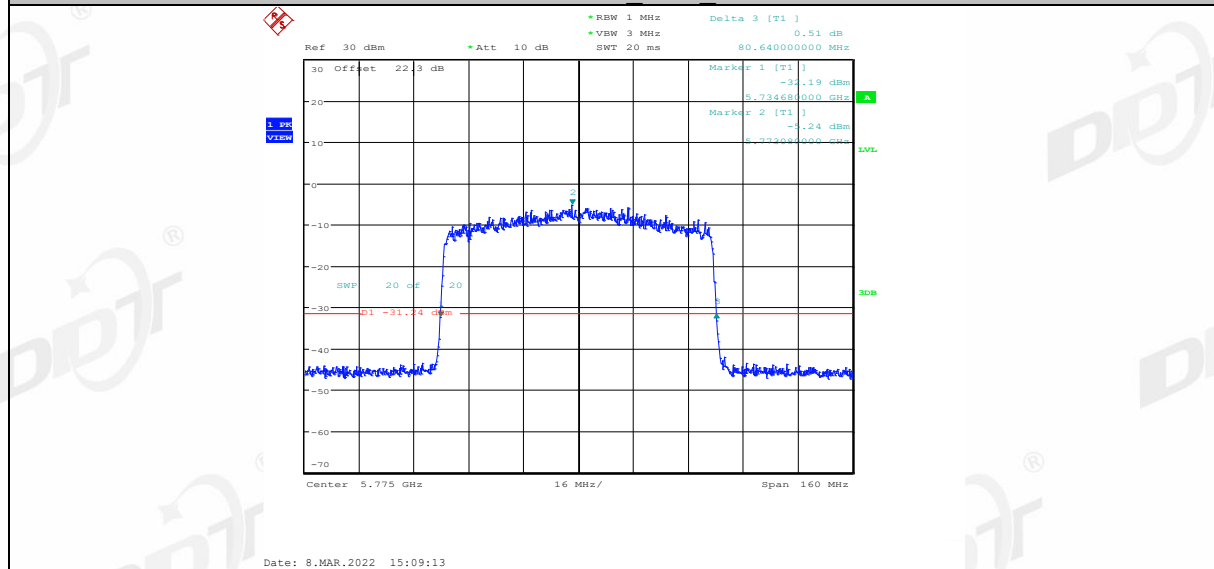
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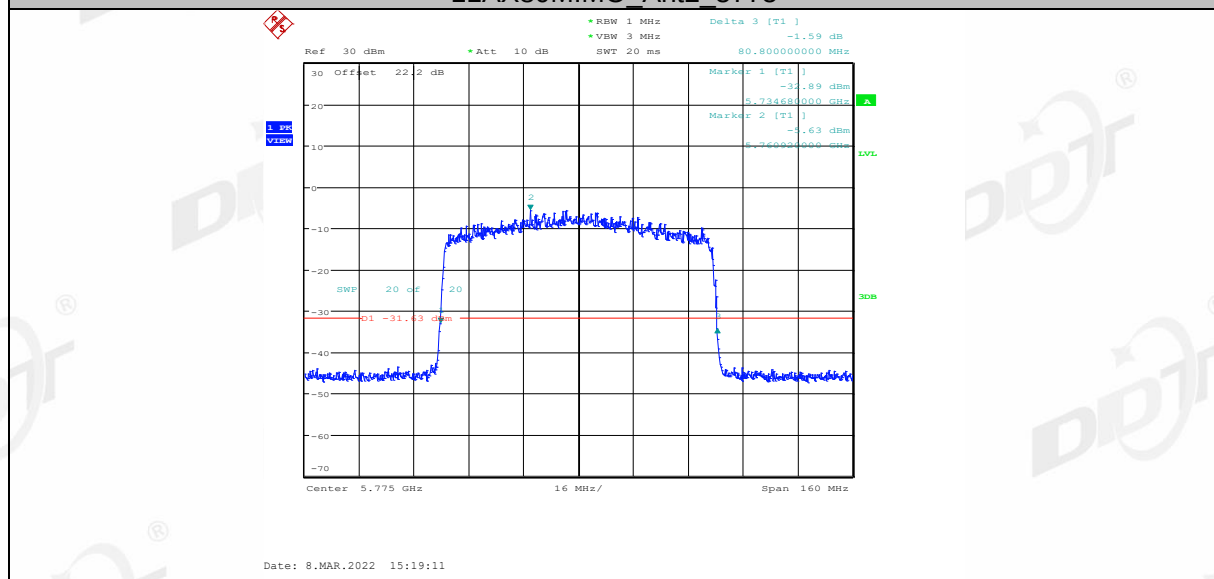
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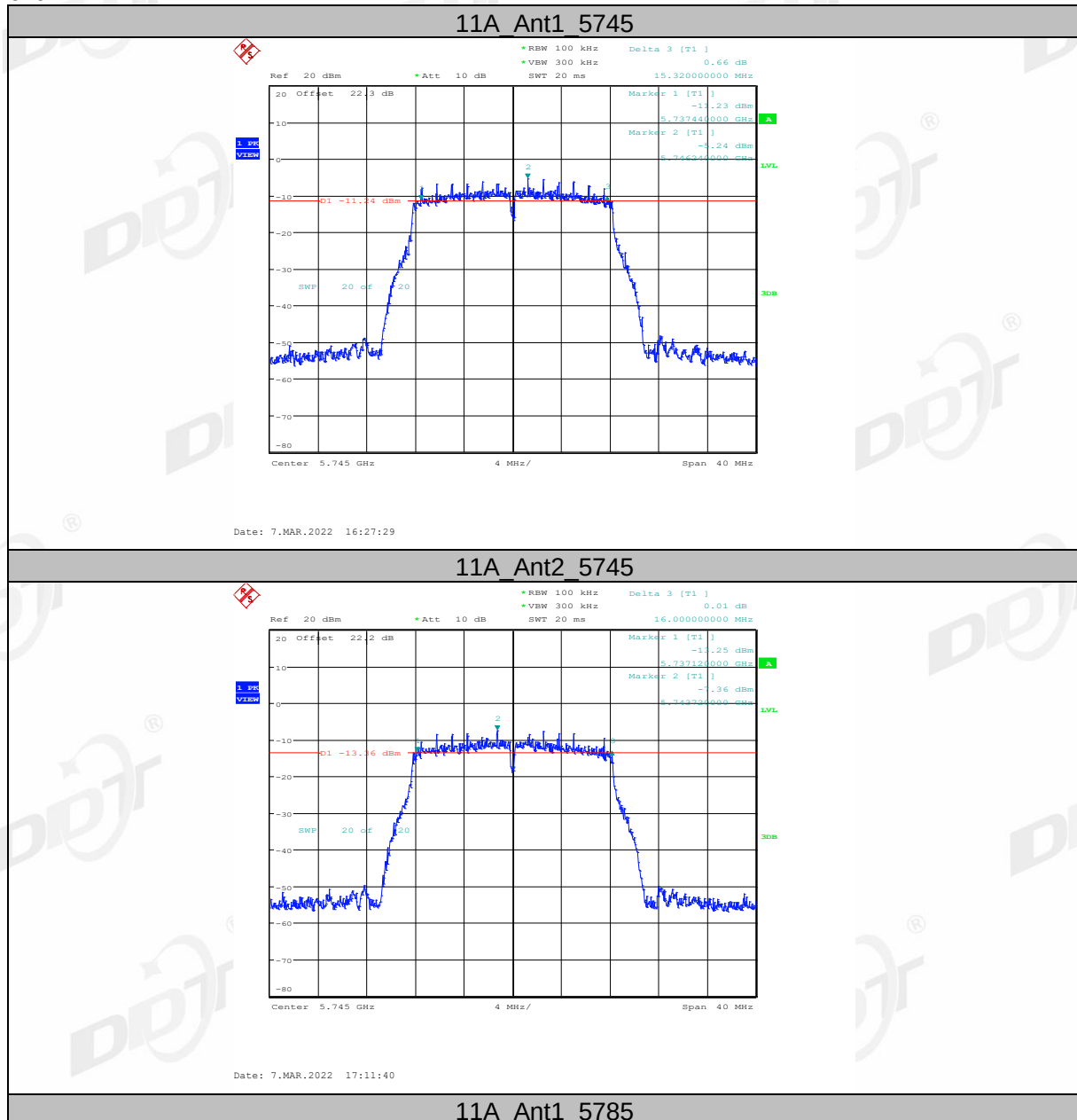
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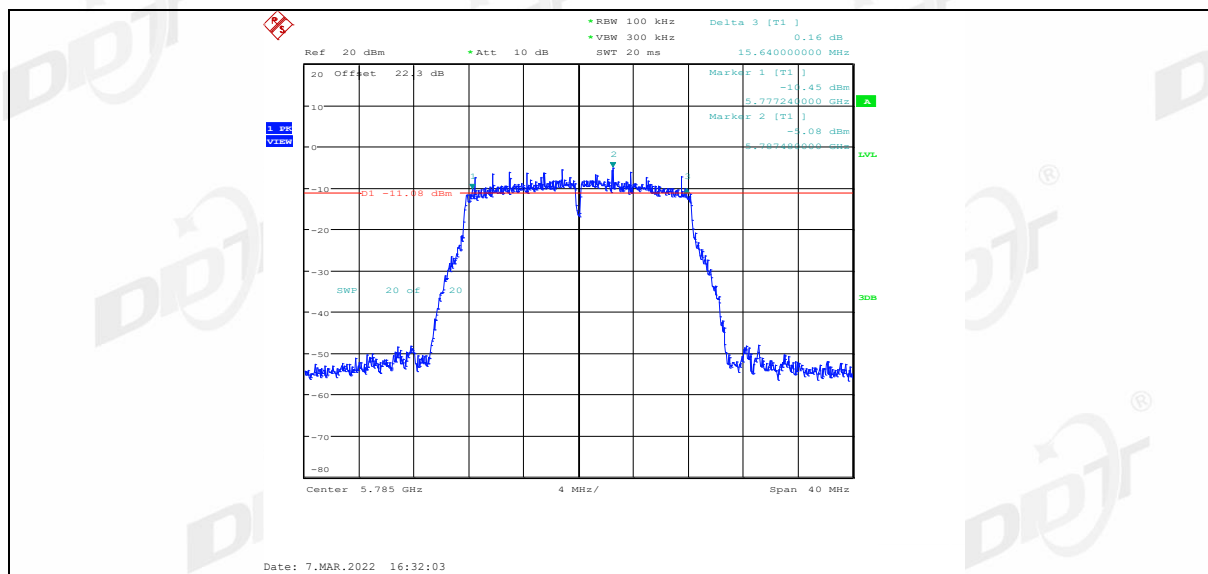


11AX80MIMO Ant2 5775

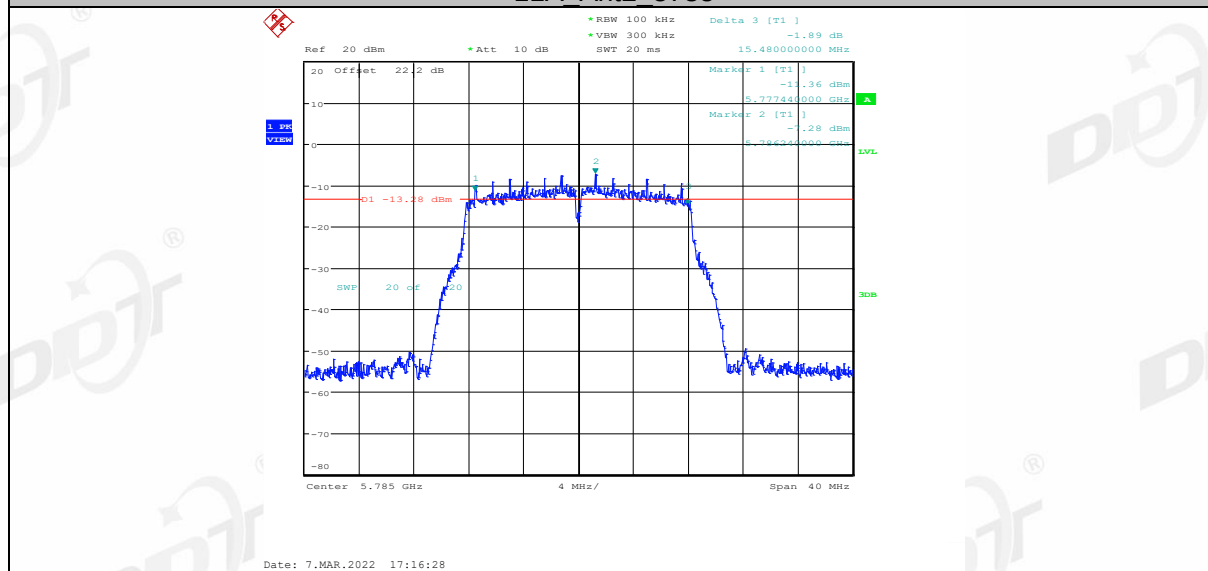


6 dB EBW:

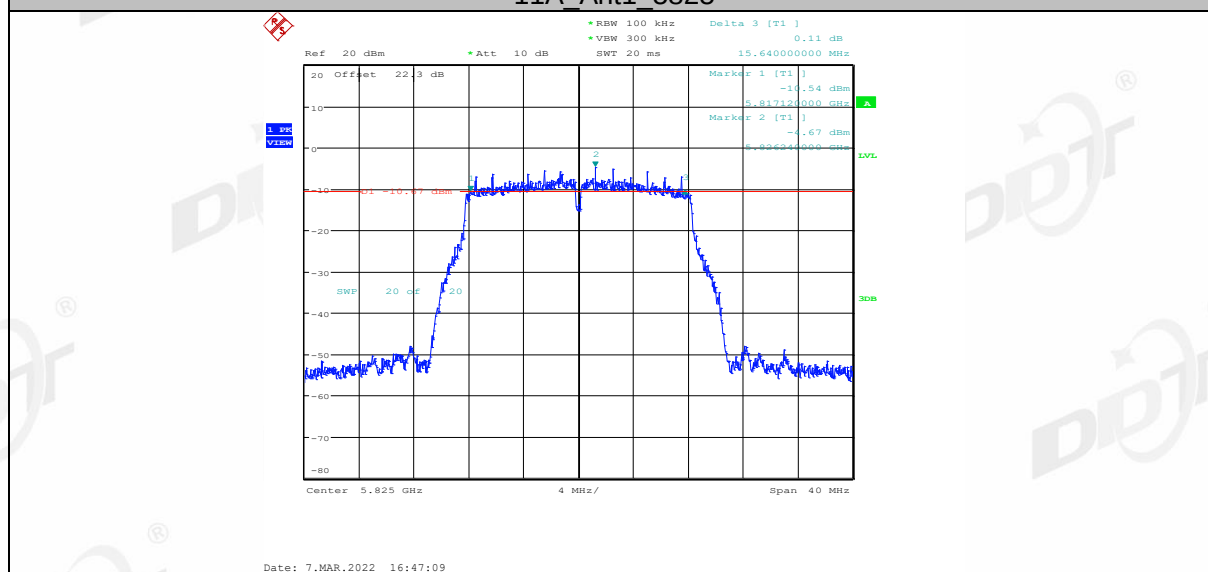




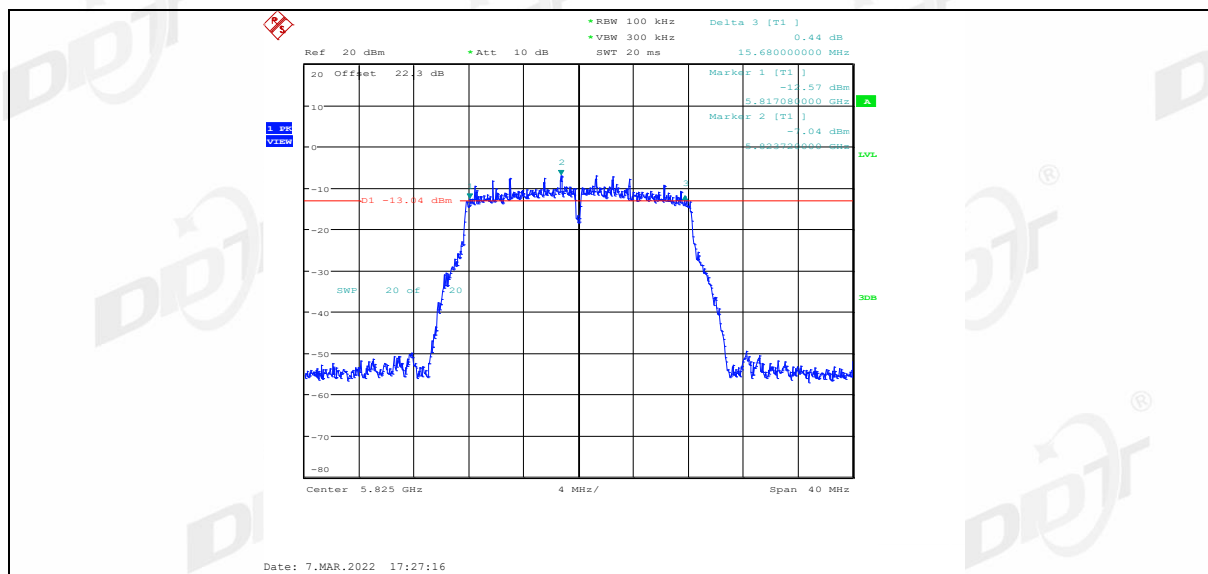
11A_Ant2_5785



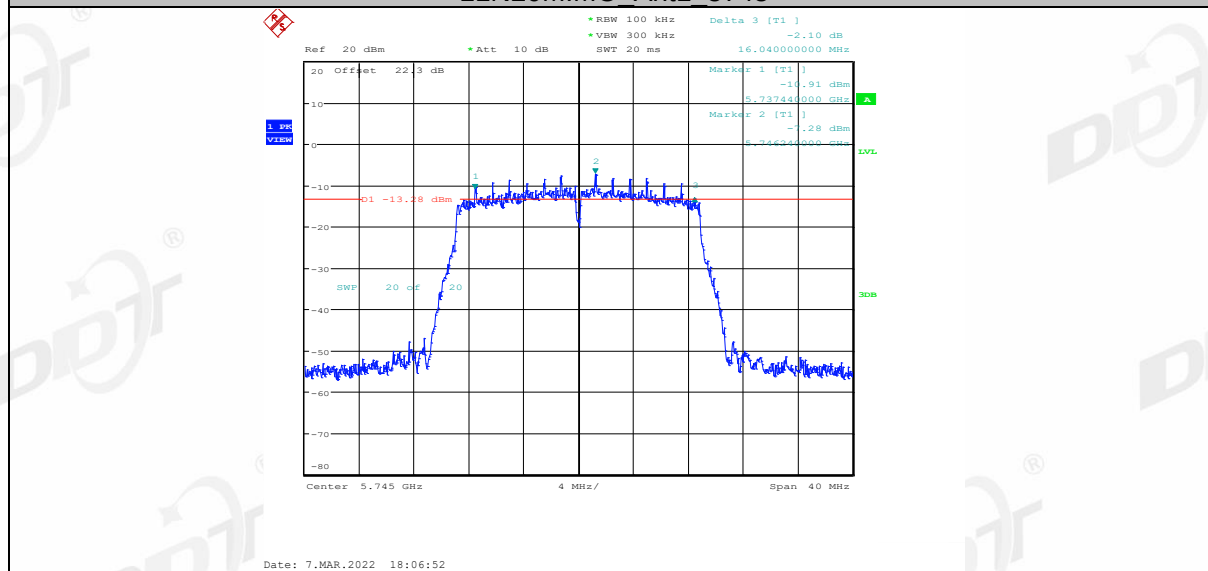
11A_Ant1_5825



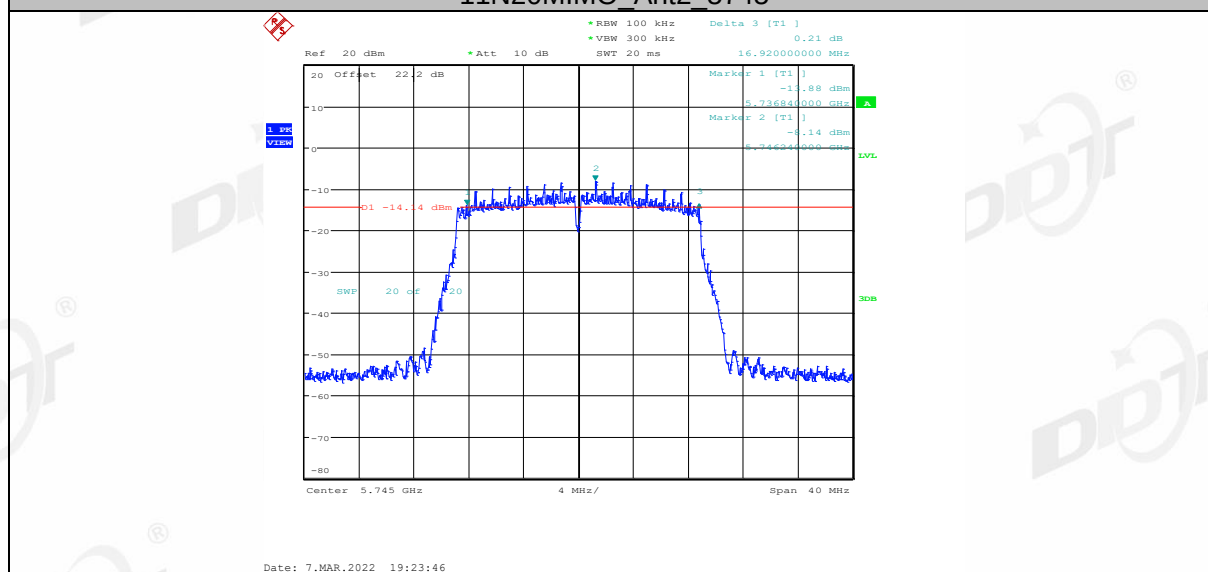
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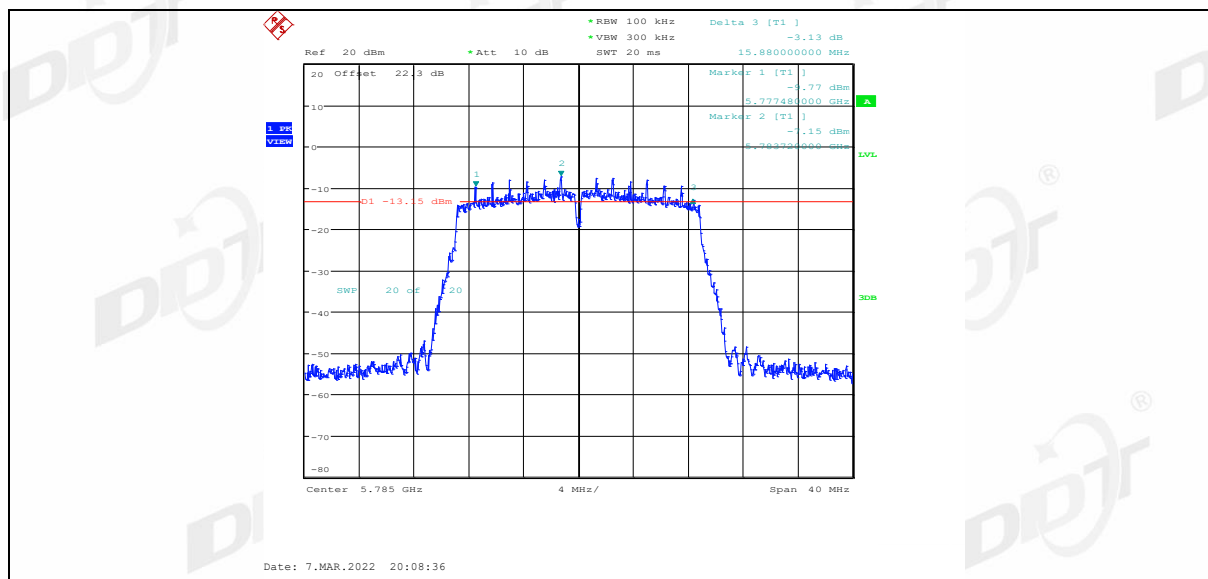
11N20MIMO Ant1 5745



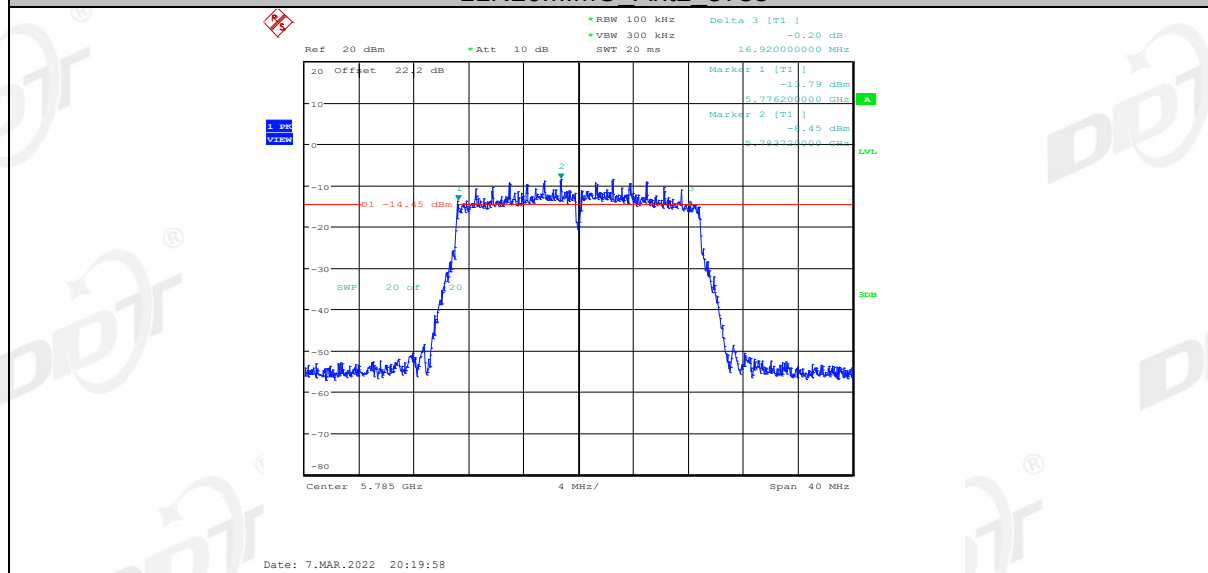
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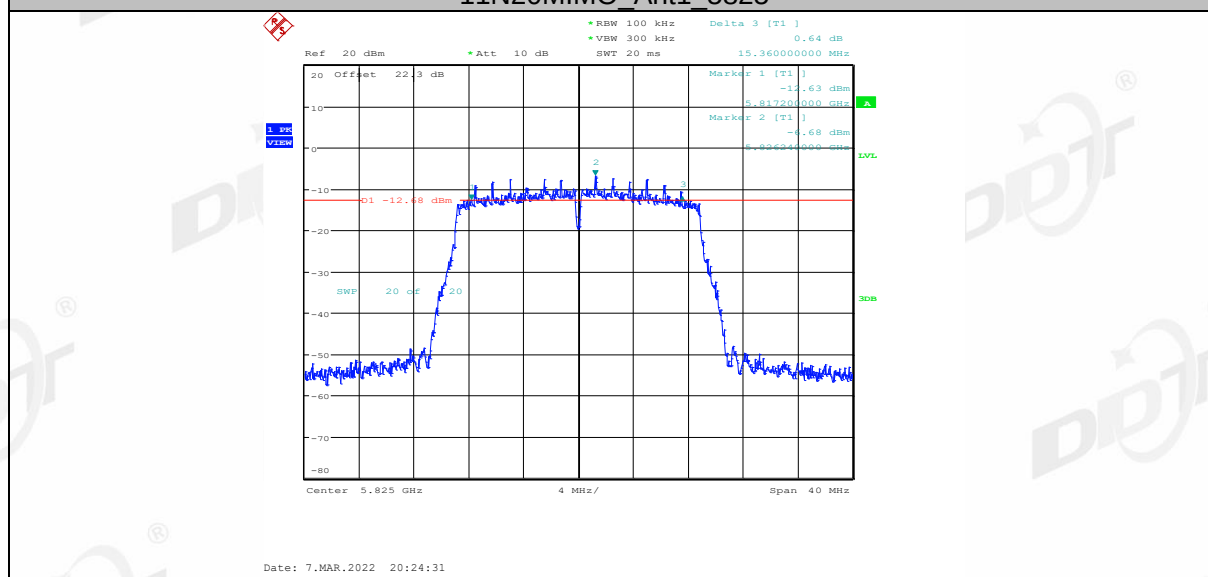
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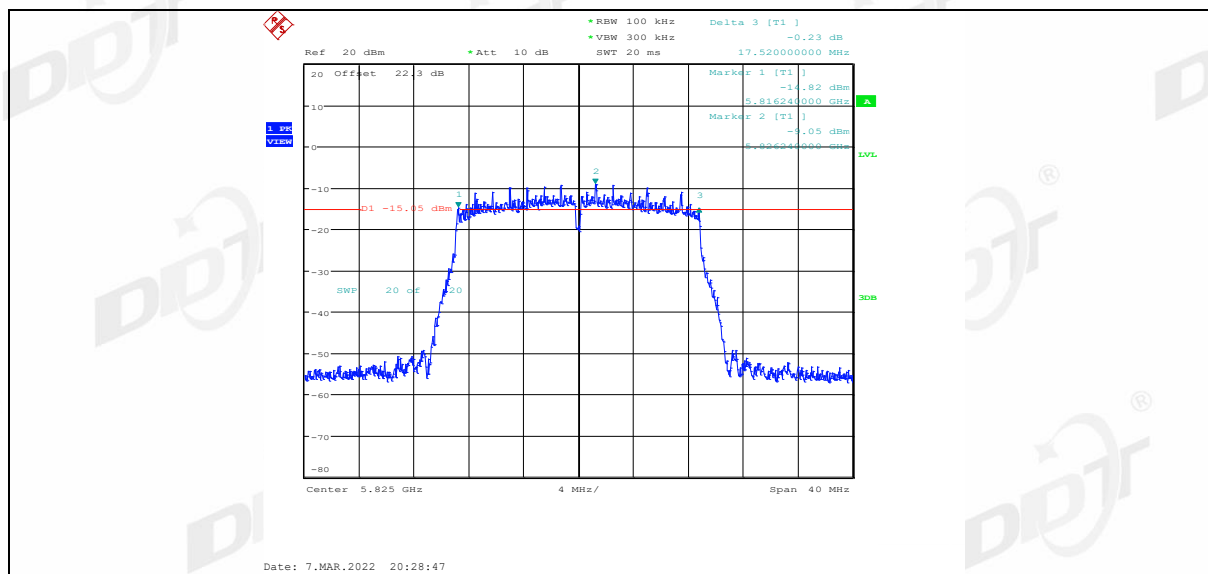
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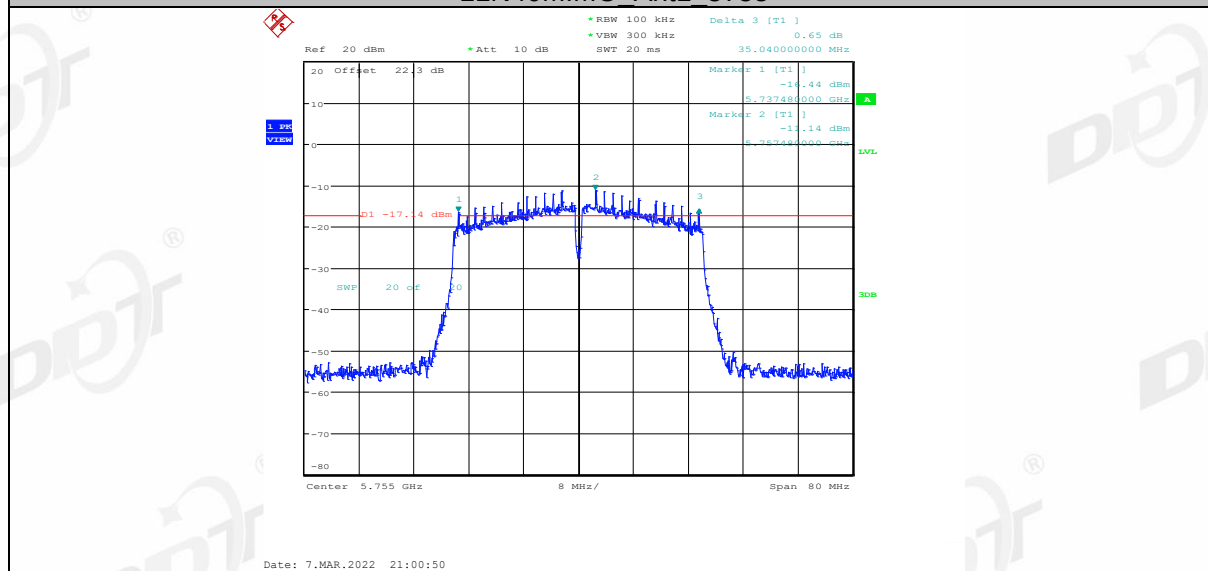
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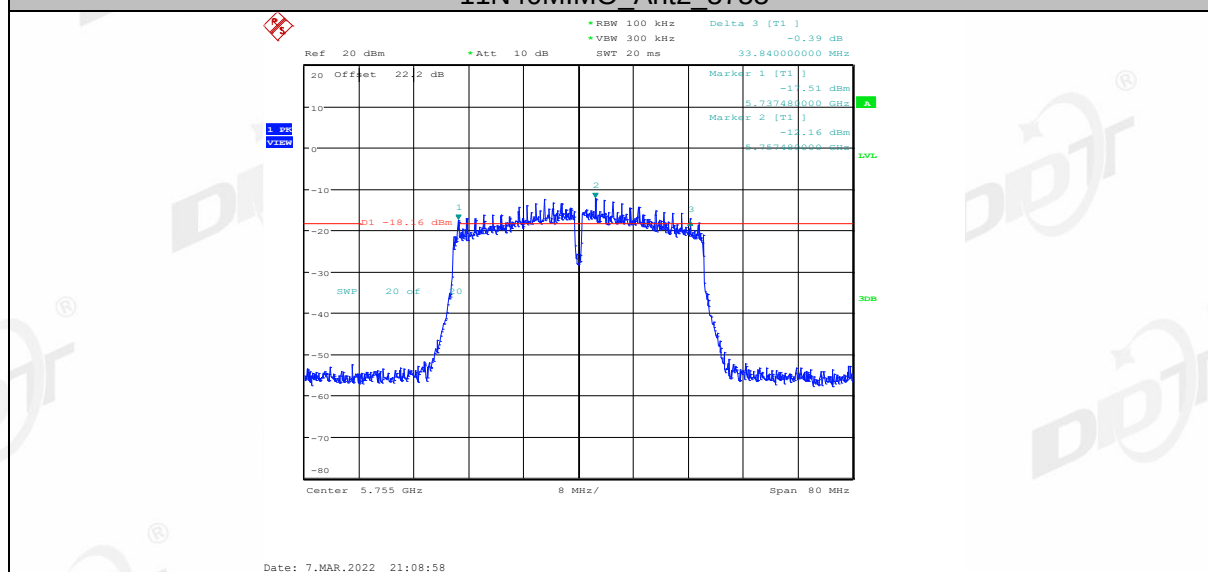
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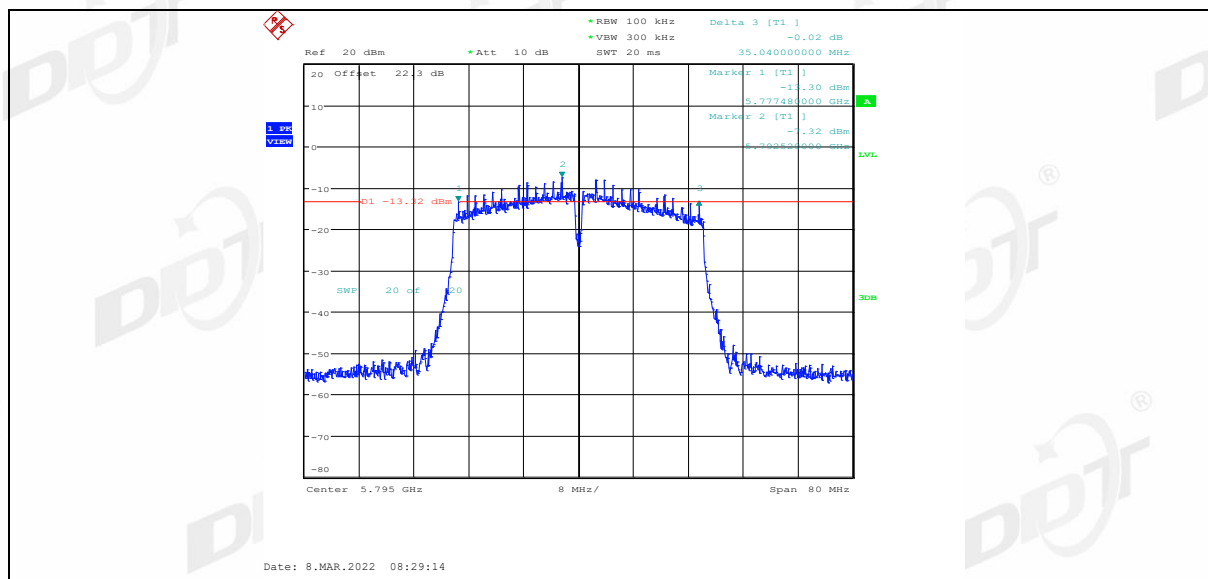
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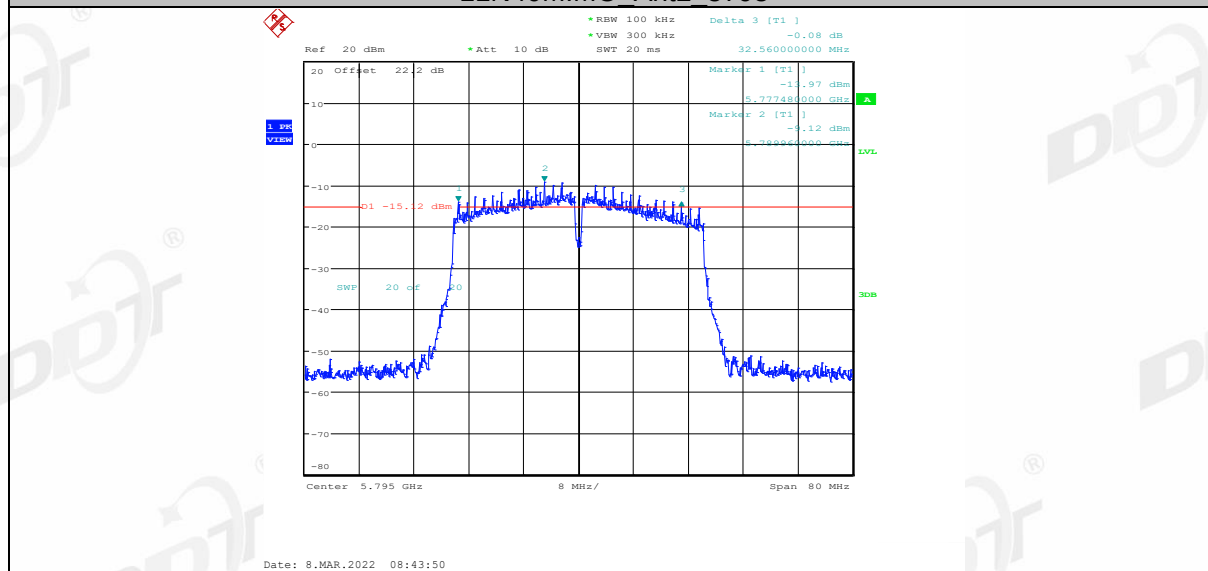
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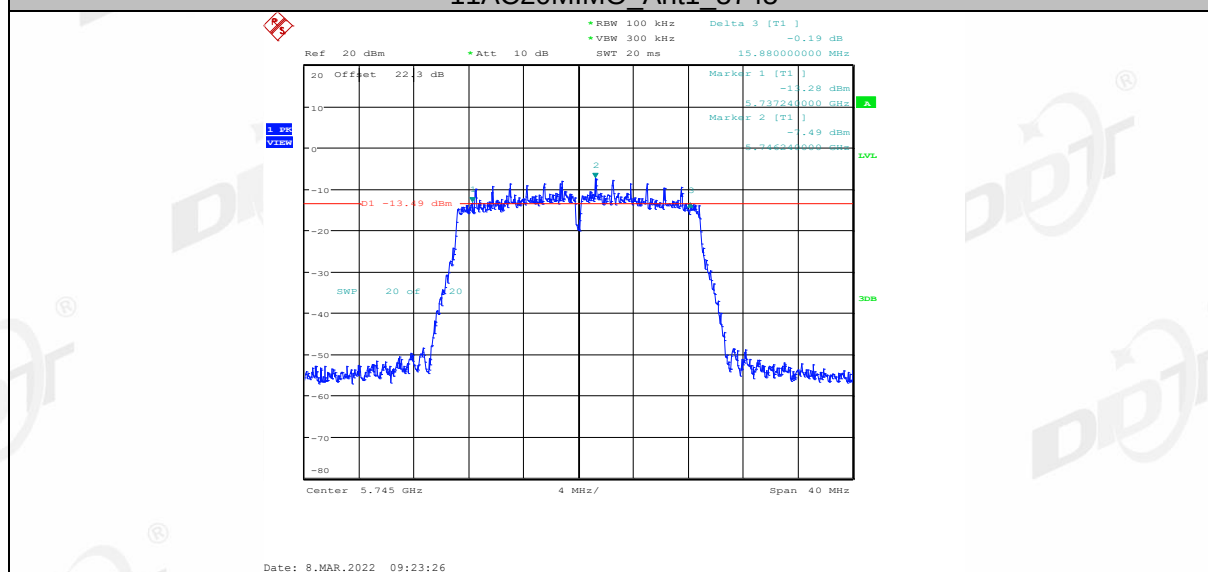
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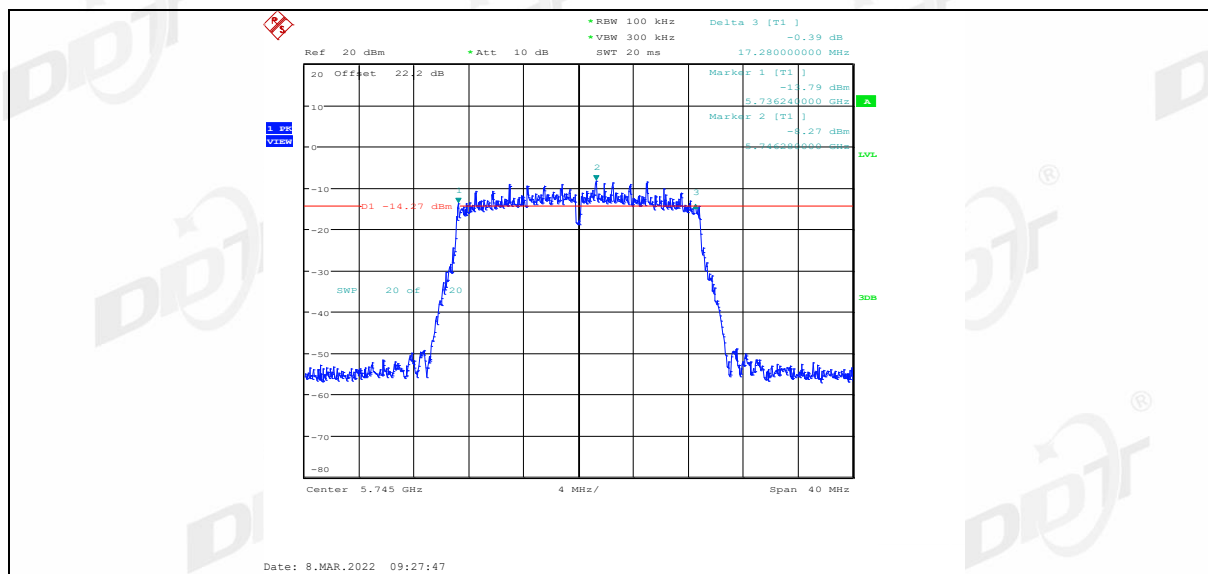
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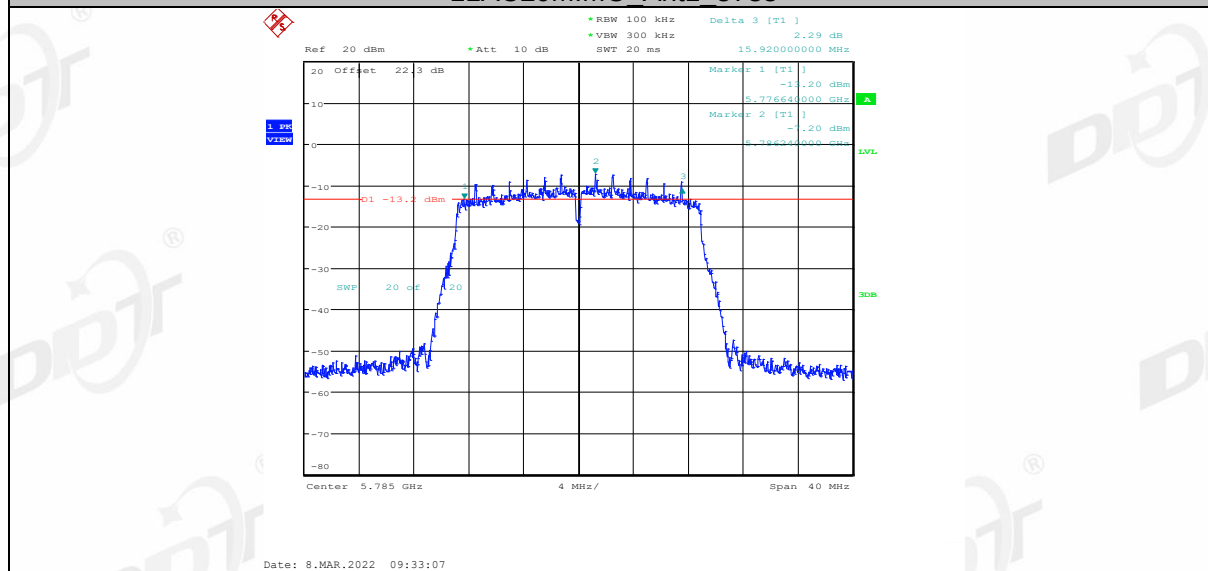
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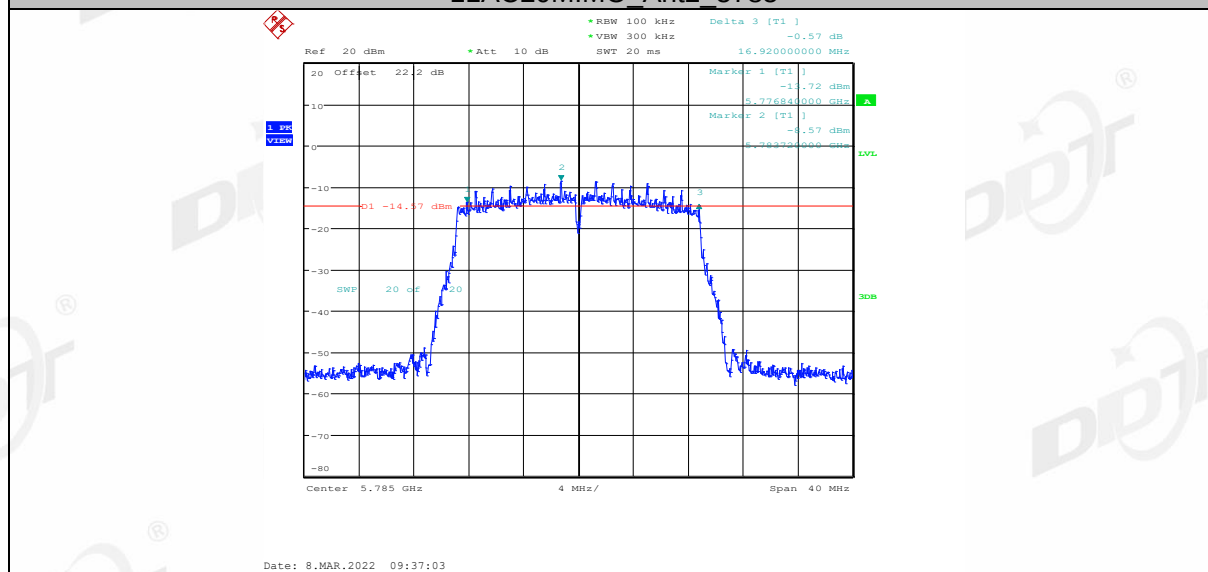
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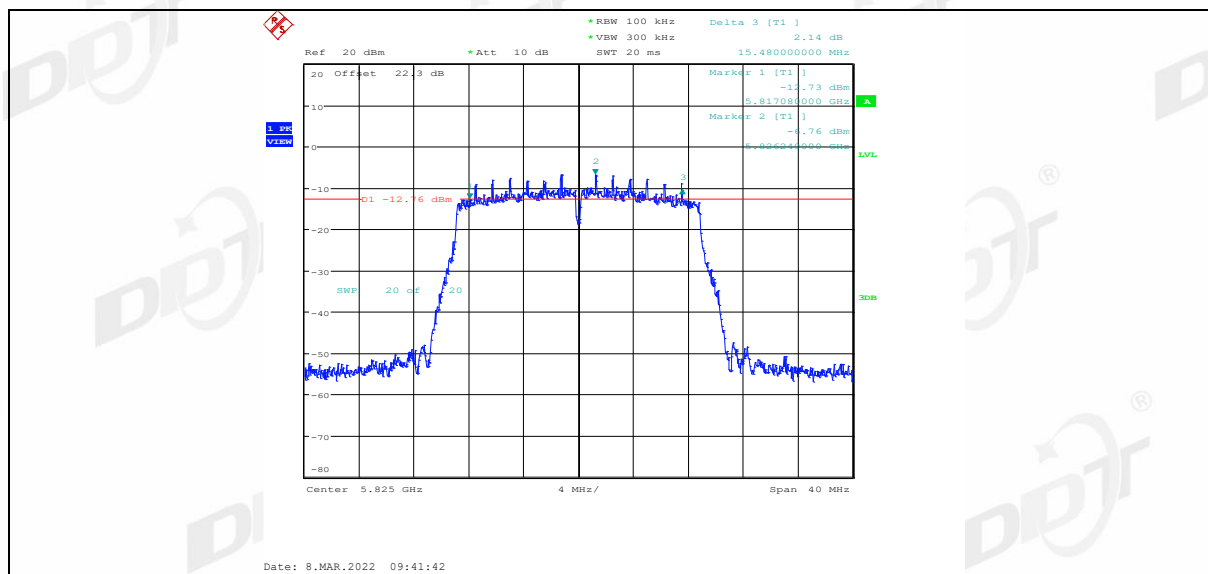
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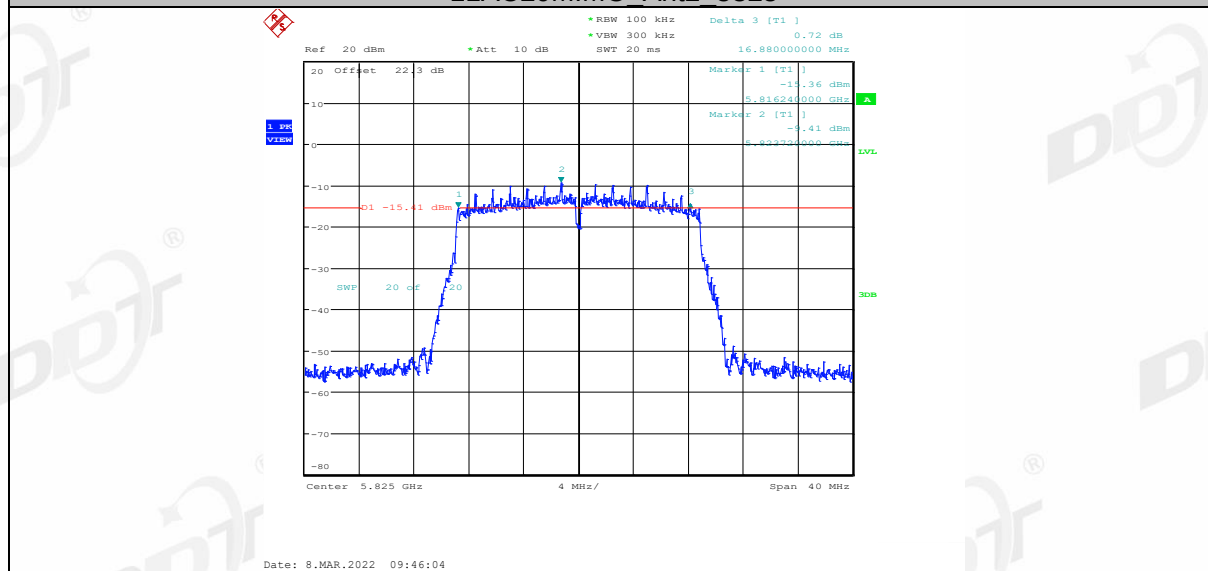
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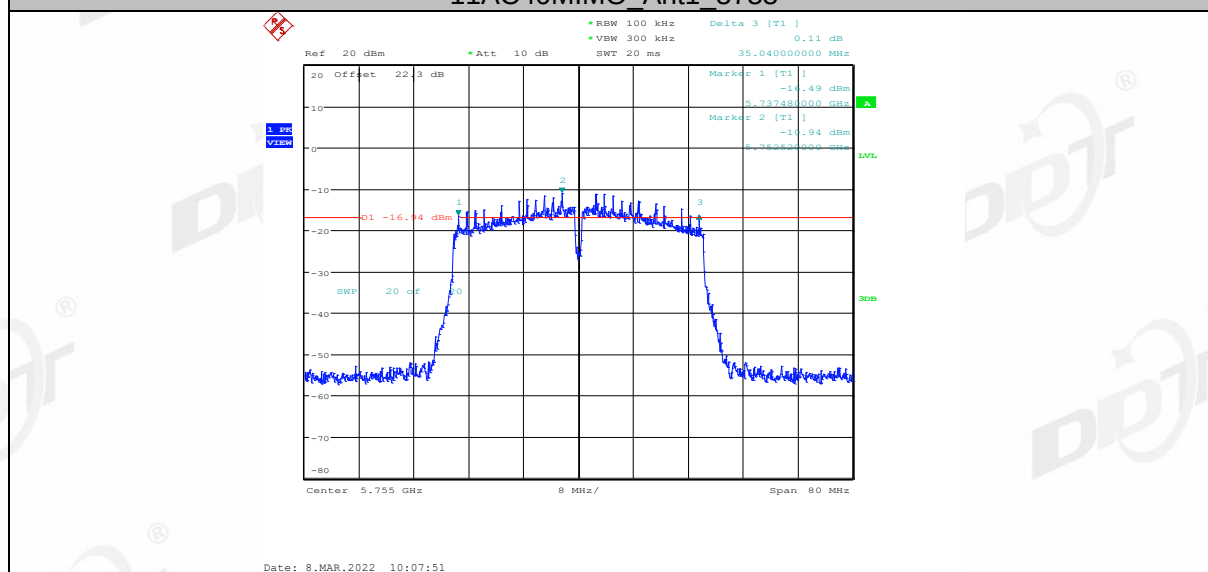
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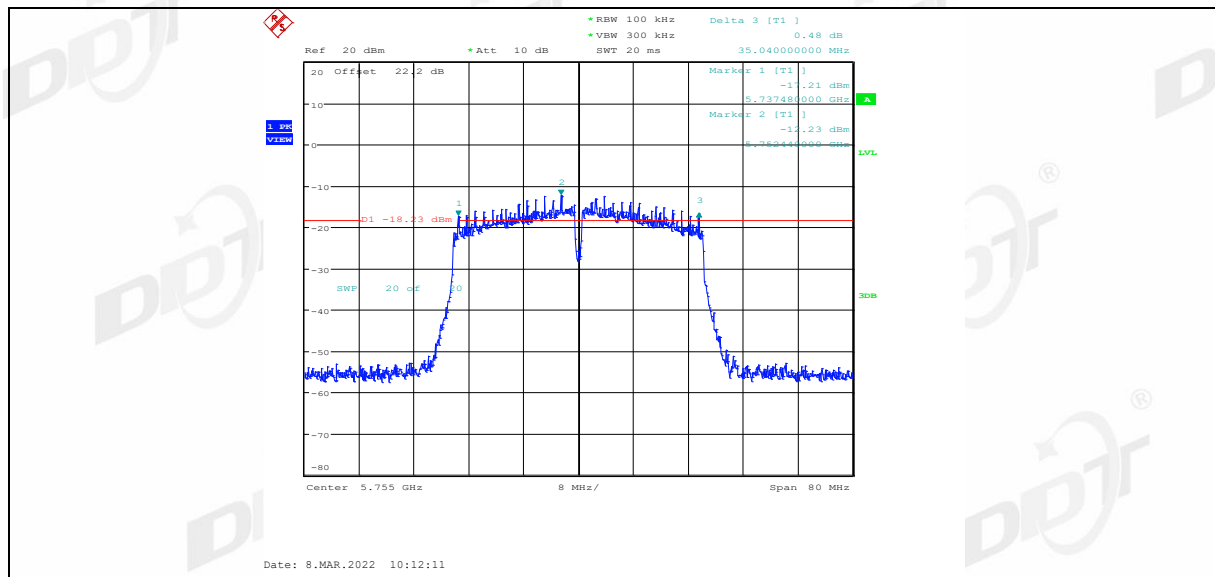
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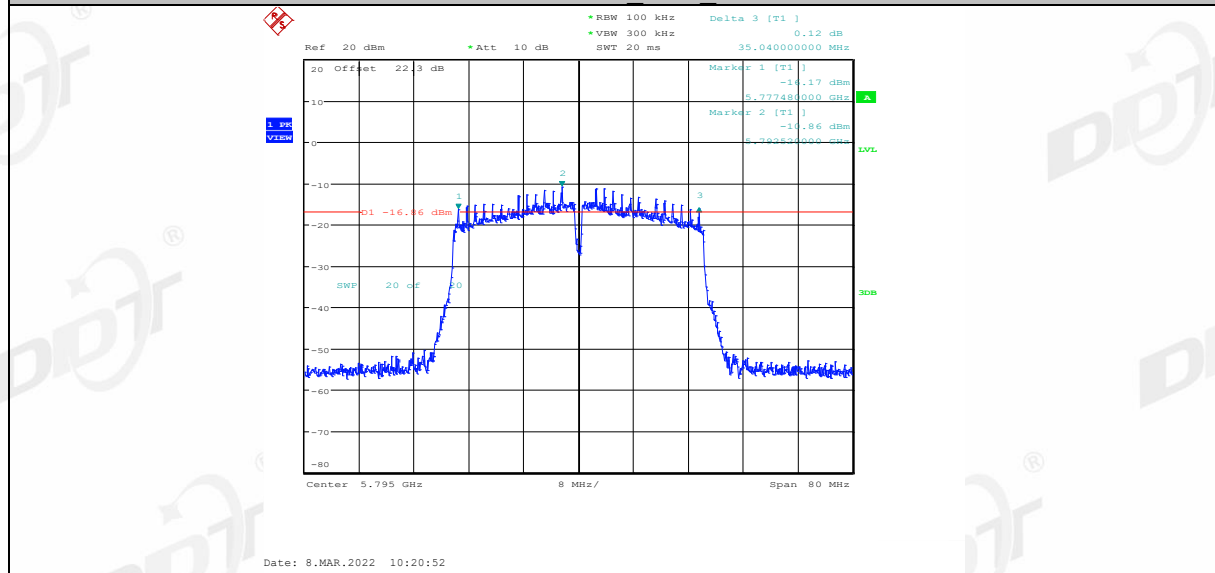
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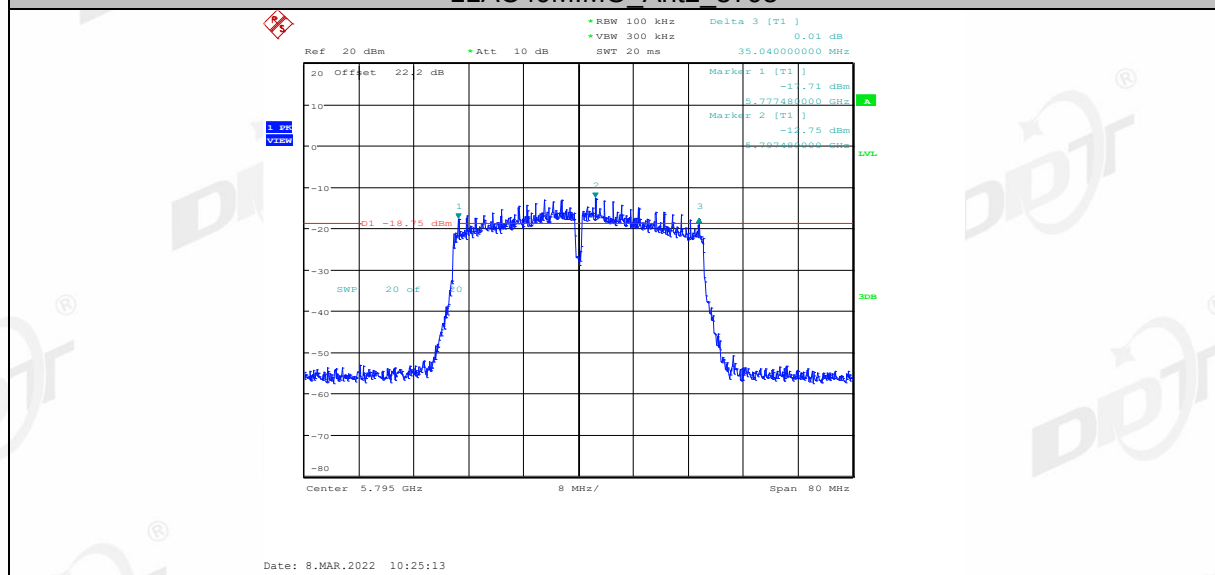
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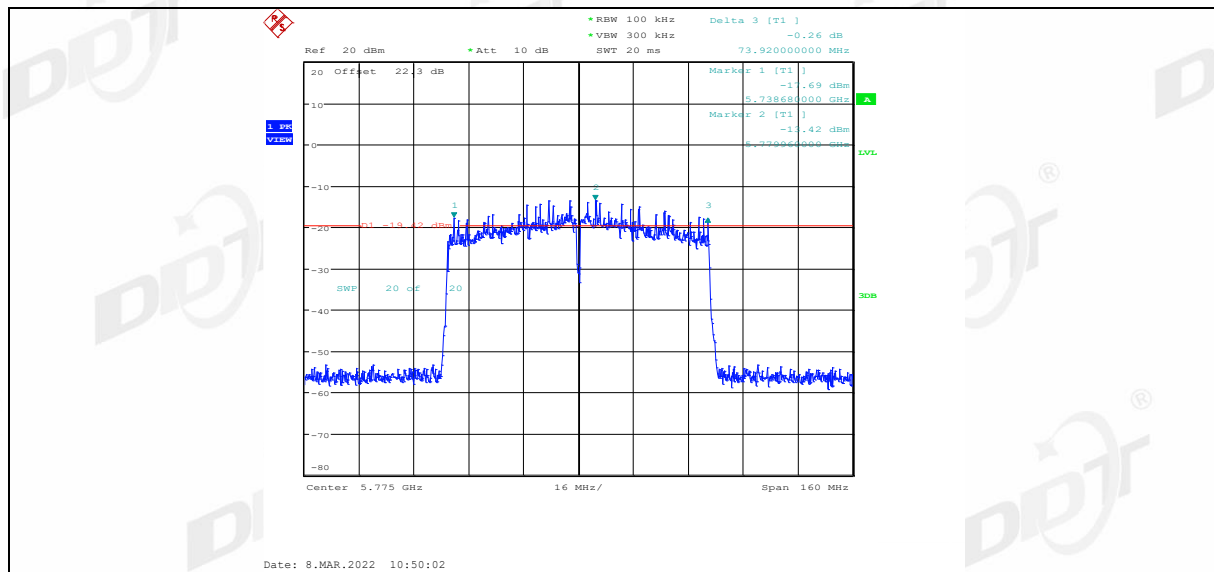
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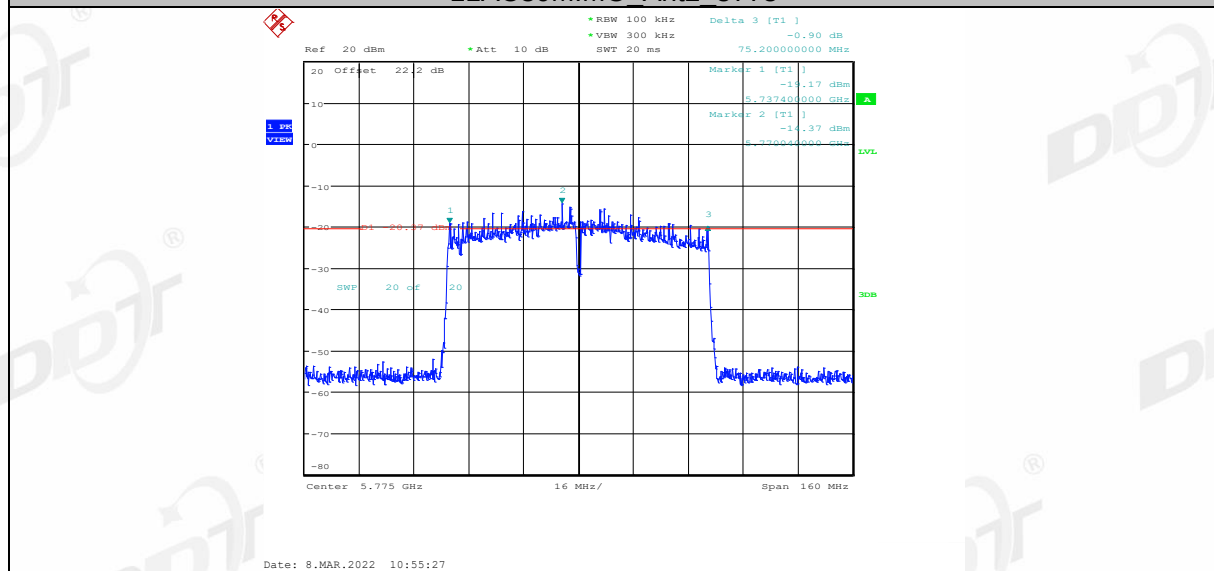
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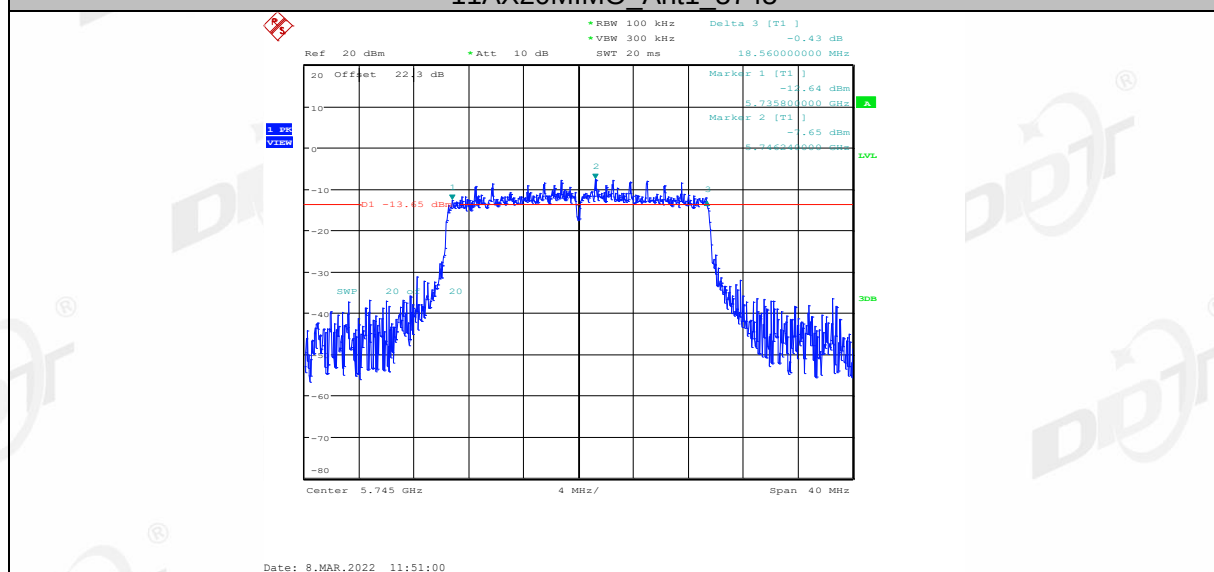
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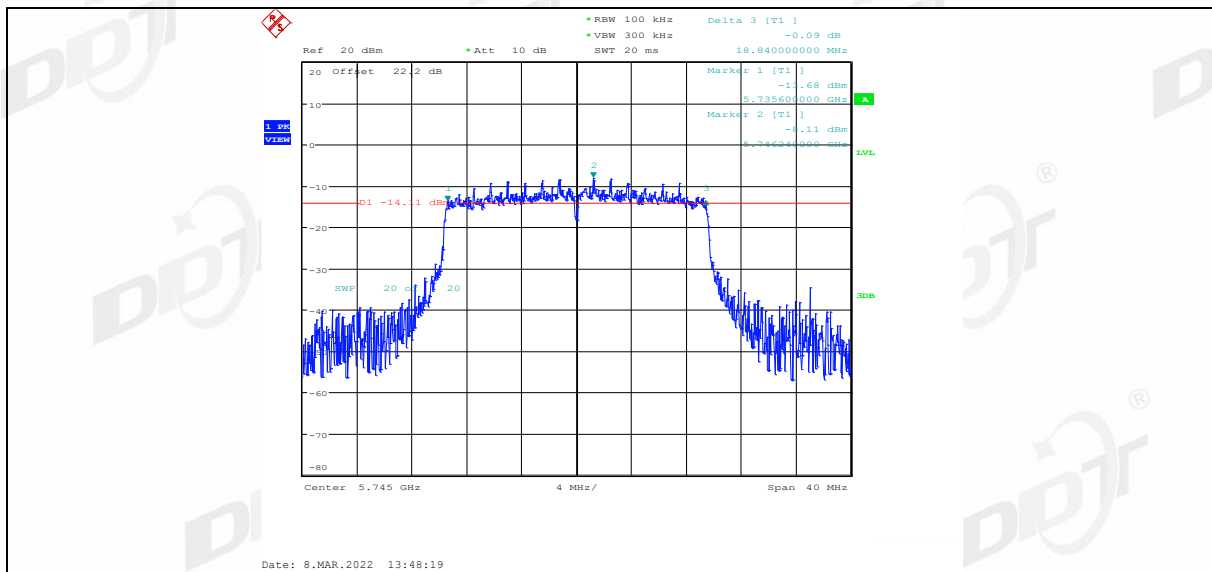
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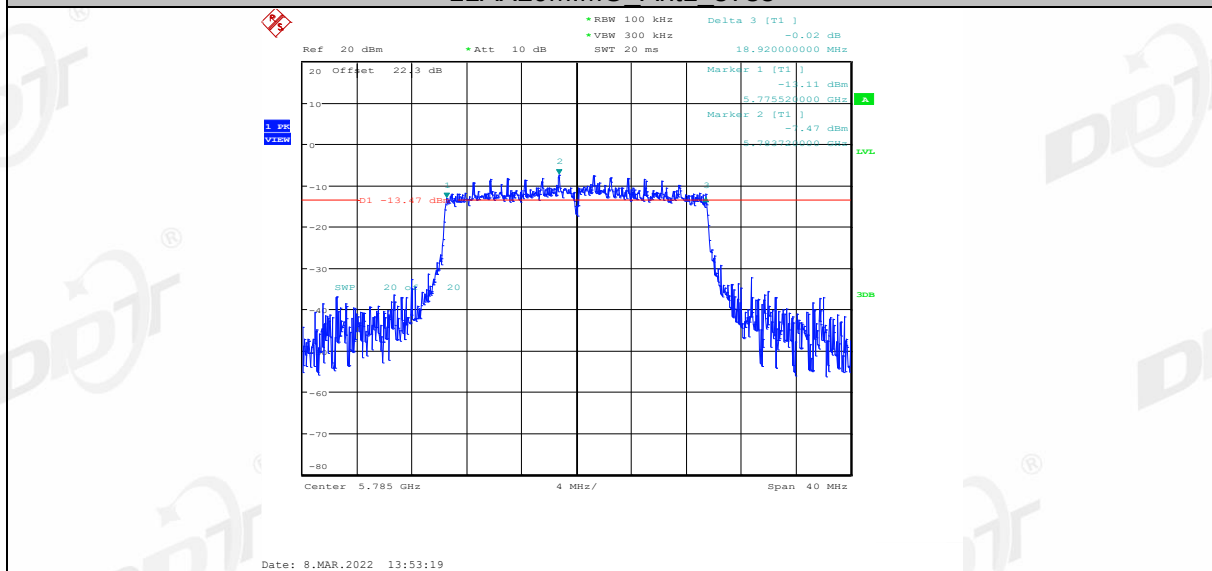
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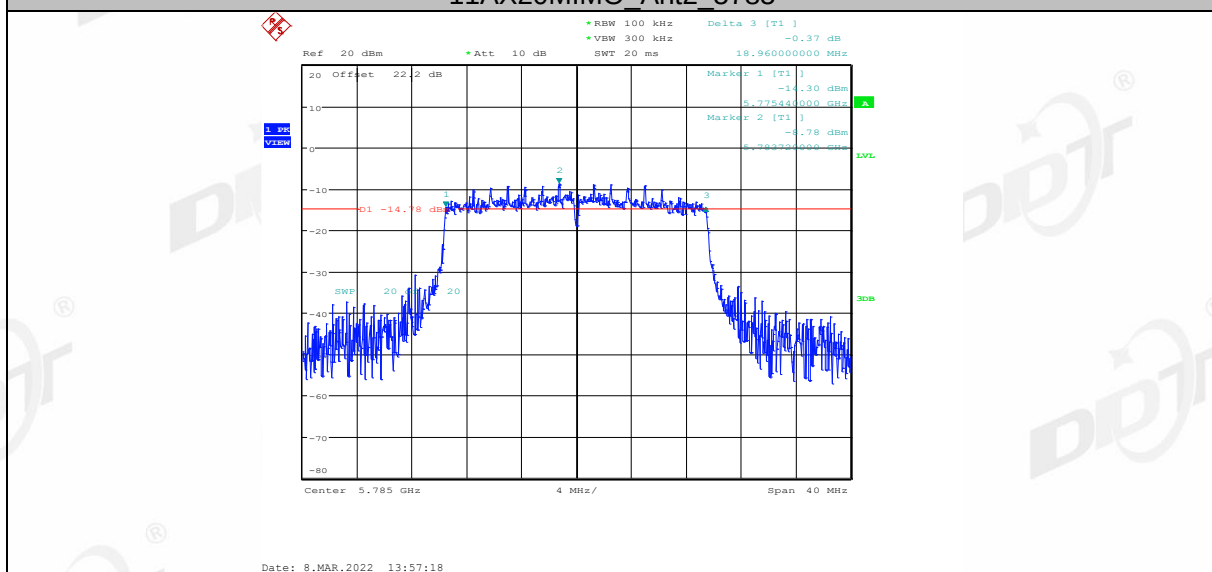
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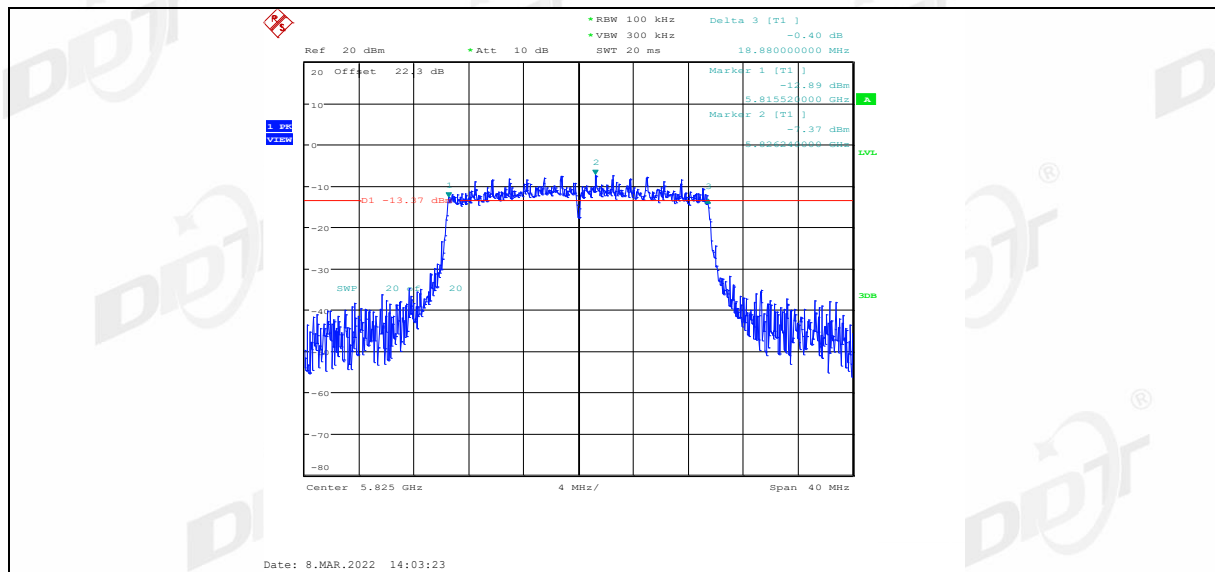
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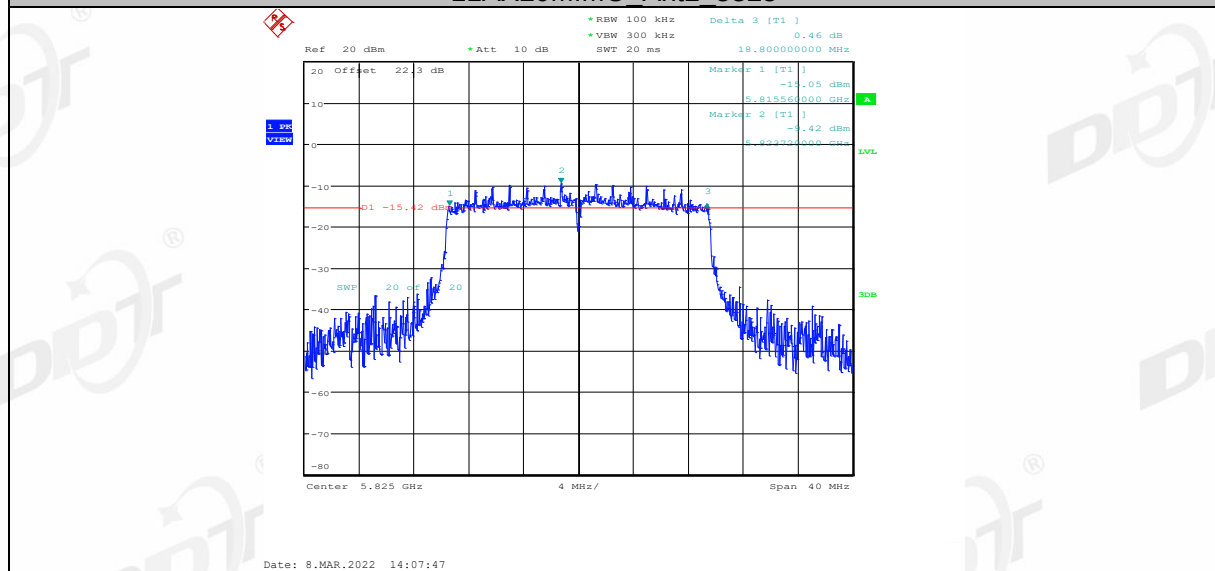
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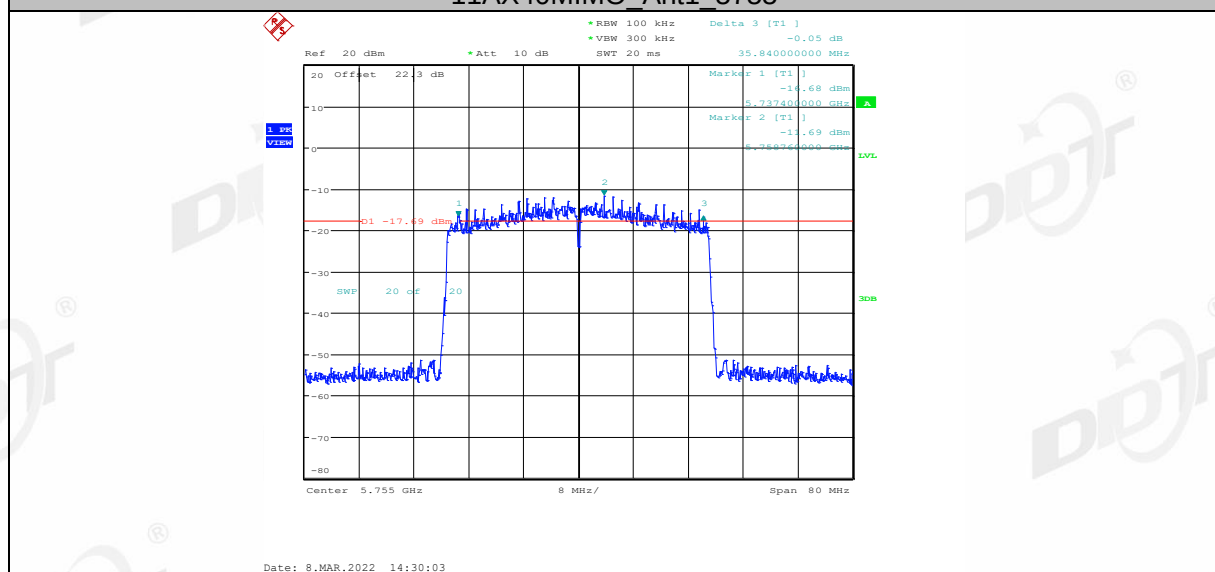
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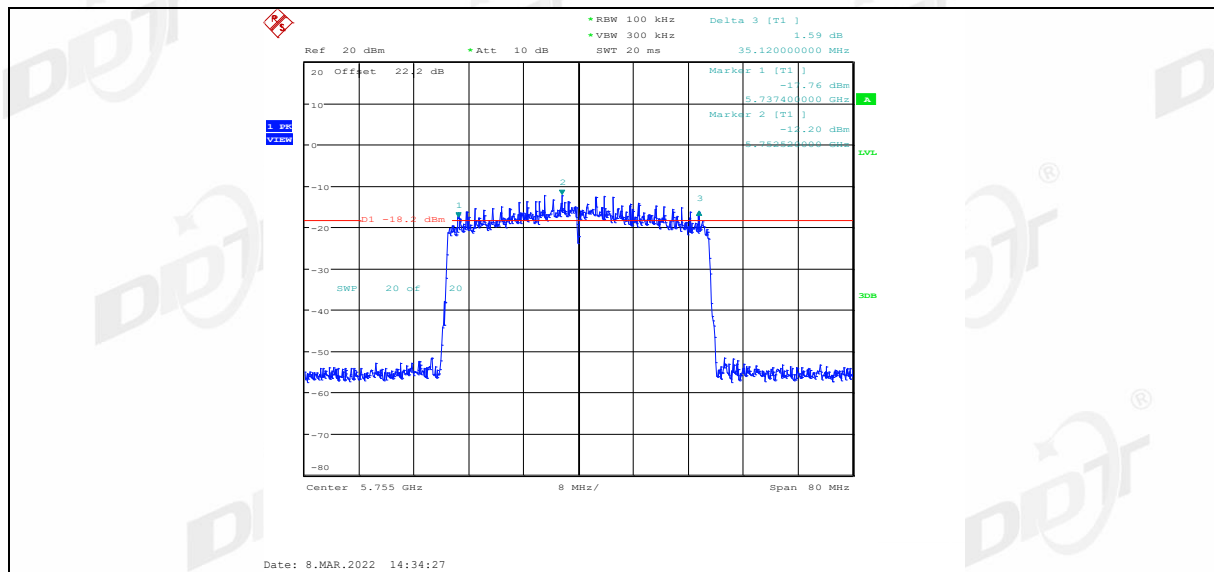
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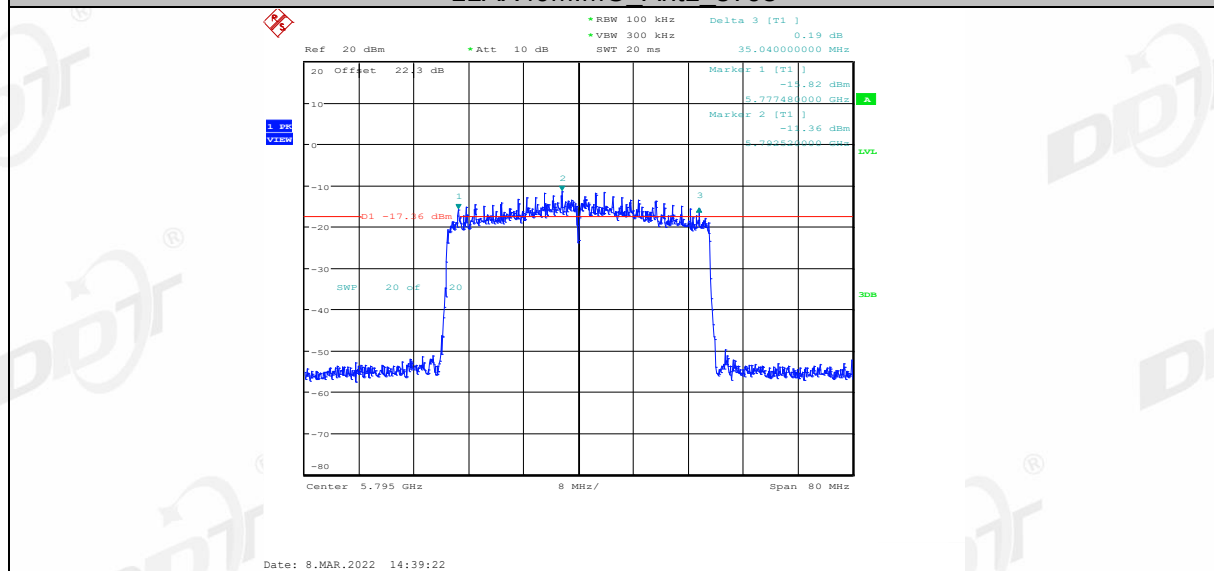
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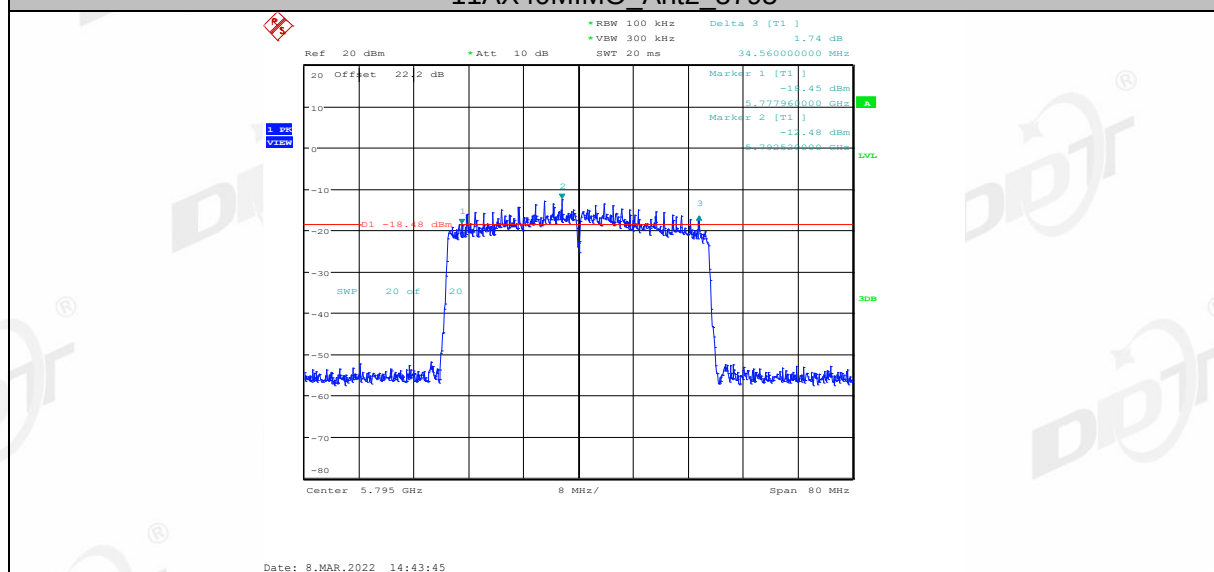
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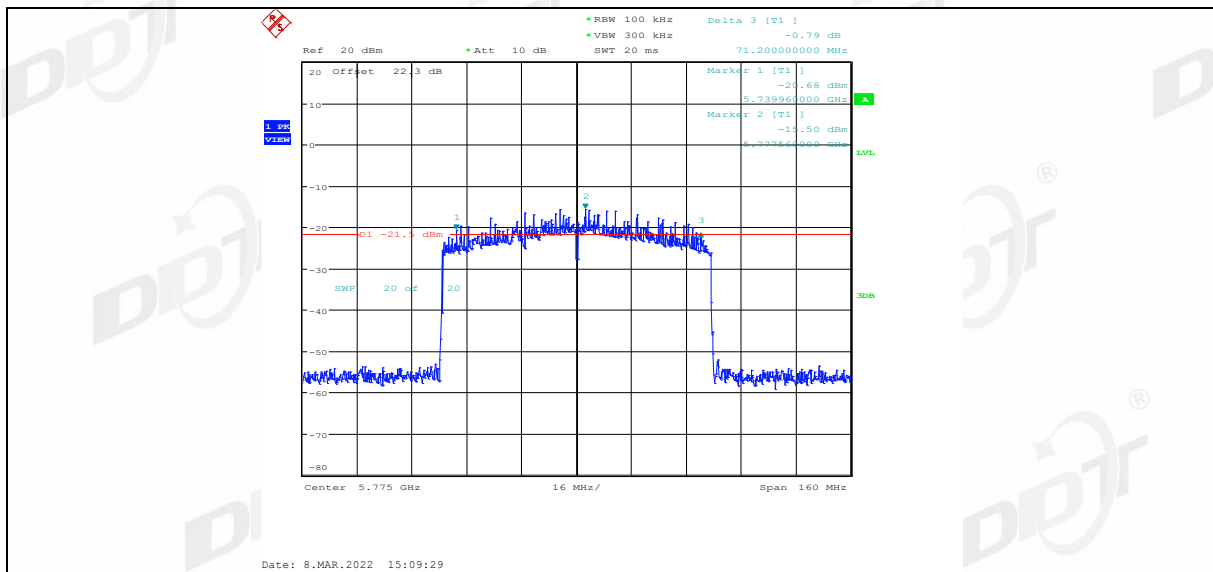
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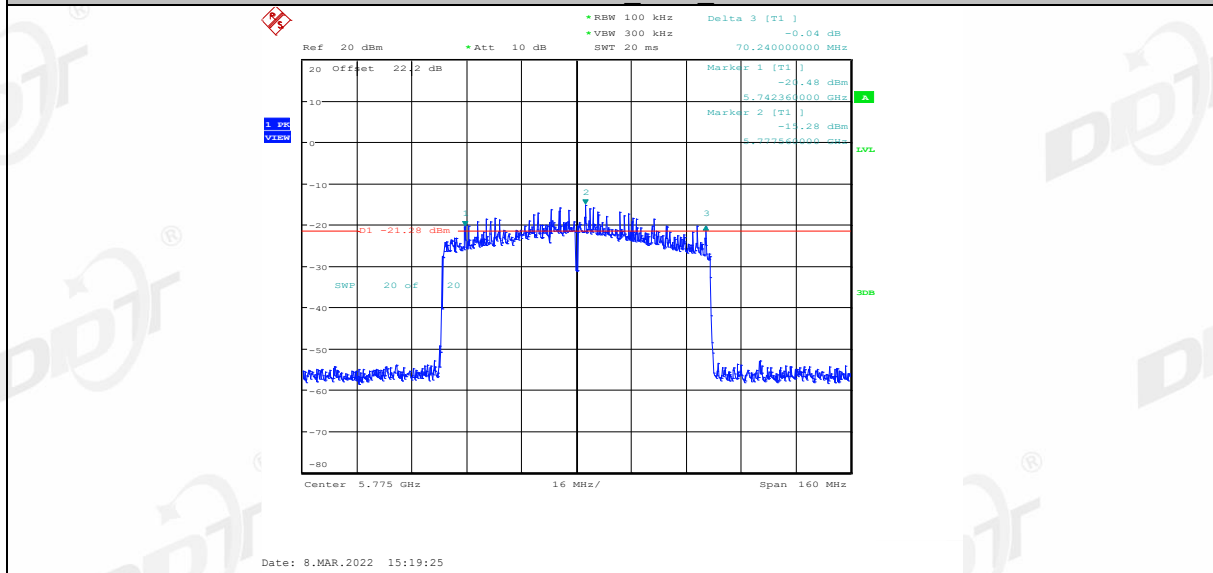
11AX40MIMO Ant2 5795



11AX80MIMO Ant1 5775



11AX80MIMO Ant2 5775



5. Maximum Output Power

5.1. Block diagram of test setup

Same as section 4.1

5.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	For FCC client devices: 250 mW (24 dBm)	5150 - 5250
	For RSS: e.i.r.p. power: not exceed 200 mW (23 dBm) or $10 + 10 \log_{10} B$	
	For FCC/ISED: 250 mW (24 dBm) or $11 + 10 \log_{10} B$	5250 - 5350
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	
	For FCC/ISED: 250 mW (24 dBm) or $11 + 10 \log_{10} B$	For FCC: 5470 - 5725 For ISED: 5470 - 5600 5650 - 5725
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	
	1 Watt (30 dBm)	5725 - 5850
Note: For FCC: B=26 bandwidth; For ISED: B=99% bandwidth.		

5.3. Test procedure

- (1) Connect each EUT's antenna output to Power Sensor by RF cable and attenuator
- (2) Add each antenna port's results to get the total output power of EUT.

5.4. Test result

Test Mode	Ant	Ch	Conducted Peak Output Power [dBm]	Conducted Limit [dBm]	ISED EIRP [dBm]	ISED EIRP Limit [dBm]	Verdict
11A	Ant1	5180	12.61	≤23	19.61	≤22.25	Pass
	Ant2	5180	13.01	≤23	20.01	≤22.25	Pass
	Ant1	5200	12.85	≤23	19.85	≤22.25	Pass
	Ant2	5200	13.05	≤23	20.05	≤22.25	Pass
	Ant1	5240	13.45	≤23	20.45	≤22.25	Pass
	Ant2	5240	12.60	≤23	19.60	≤22.25	Pass
	Ant1	5745	6.16	≤29	13.16	--	Pass
	Ant2	5745	4.53	≤29	11.53	--	Pass
	Ant1	5785	6.27	≤29	13.27	--	Pass
	Ant2	5785	5.48	≤29	12.48	--	Pass
	Ant1	5825	6.59	≤29	13.59	--	Pass
	Ant2	5825	4.65	≤29	11.65	--	Pass
11N20MIMO	Ant1	5180	6.09	≤23	13.09	≤22.47	Pass
	Ant2	5180	7.12	≤23	14.12	≤22.47	Pass

	total	5180	9.65	≤20	16.65	≤22.47	Pass
	Ant1	5200	6.25	≤23	13.25	≤22.47	Pass
	Ant2	5200	7.18	≤23	14.18	≤22.47	Pass
	total	5200	9.75	≤20	16.75	≤22.47	Pass
	Ant1	5240	6.93	≤23	13.93	≤22.47	Pass
	Ant2	5240	6.96	≤23	13.96	≤22.47	Pass
	total	5240	9.96	≤20	16.96	≤22.47	Pass
	Ant1	5745	3.80	≤29	10.80	--	Pass
	Ant2	5745	3.42	≤29	10.42	--	Pass
	total	5745	6.62	≤26	13.62	--	Pass
	Ant1	5785	3.83	≤29	10.83	--	Pass
	Ant2	5785	3.05	≤29	10.05	--	Pass
	total	5785	6.47	≤26	13.47	--	Pass
	Ant1	5825	4.27	≤29	11.27	--	Pass
	Ant2	5825	2.18	≤29	9.18	--	Pass
	total	5825	6.36	≤26	13.36	--	Pass
11N40MIMO	Ant1	5190	1.53	≤23	8.53	≤23	Pass
	Ant2	5190	2.47	≤23	9.47	≤23	Pass
	total	5190	5.04	≤20	12.04	≤23	Pass
	Ant1	5230	2.19	≤23	9.19	≤23	Pass
	Ant2	5230	2.39	≤23	9.39	≤23	Pass
	total	5230	5.30	≤20	12.30	≤23	Pass
	Ant1	5755	2.16	≤29	9.16	--	Pass
	Ant2	5755	1.63	≤29	8.63	--	Pass
	total	5755	4.91	≤26	11.91	--	Pass
	Ant1	5795	1.97	≤29	8.97	--	Pass
	Ant2	5795	0.81	≤29	7.81	--	Pass
	total	5795	4.44	≤26	11.44	--	Pass
11AC20MIMO	Ant1	5180	6.29	≤23	13.29	≤22.46	Pass
	Ant2	5180	7.03	≤23	14.03	≤22.46	Pass
	total	5180	9.69	≤20	16.69	≤22.46	Pass
	Ant1	5200	6.40	≤23	13.40	≤22.46	Pass
	Ant2	5200	7.03	≤23	14.03	≤22.46	Pass
	total	5200	9.74	≤20	16.74	≤22.46	Pass
	Ant1	5240	7.10	≤23	14.10	≤22.46	Pass
	Ant2	5240	6.75	≤23	13.75	≤22.46	Pass
	total	5240	9.94	≤20	16.94	≤22.46	Pass
	Ant1	5745	3.52	≤29	10.52	--	Pass
	Ant2	5745	3.48	≤29	10.48	--	Pass
	total	5745	6.51	≤26	13.51	--	Pass
	Ant1	5785	3.97	≤29	10.97	--	Pass
	Ant2	5785	2.99	≤29	9.99	--	Pass
	total	5785	6.52	≤26	13.52	--	Pass
	Ant1	5825	4.35	≤29	11.35	--	Pass
	Ant2	5825	1.91	≤29	8.91	--	Pass
	total	5825	6.31	≤26	13.31	--	Pass
11AC40MIMO	Ant1	5190	4.67	≤23	11.67	≤23	Pass
	Ant2	5190	5.50	≤23	12.50	≤23	Pass
	total	5190	8.12	≤20	15.12	≤23	Pass
	Ant1	5230	5.42	≤23	12.42	≤23	Pass
	Ant2	5230	5.22	≤23	12.22	≤23	Pass

	total	5230	8.33	≤20	15.33	≤23	Pass
	Ant1	5755	2.33	≤29	9.33	--	Pass
	Ant2	5755	1.59	≤29	8.59	--	Pass
	total	5755	4.99	≤26	11.99	--	Pass
	Ant1	5795	2.21	≤29	9.21	--	Pass
	Ant2	5795	0.95	≤29	7.95	--	Pass
	total	5795	4.64	≤26	11.64	--	Pass
11AC80MIMO	Ant1	5210	6.11	≤23	13.11	≤23	Pass
	Ant2	5210	6.34	≤23	13.34	≤23	Pass
	total	5210	9.24	≤20	16.24	≤23	Pass
	Ant1	5775	3.28	≤29	10.28	--	Pass
	Ant2	5775	2.53	≤29	9.53	--	Pass
	total	5775	5.93	≤26	12.93	--	Pass
	Ant1	5180	6.69	≤23	13.69	--	Pass
11AX20MIMO	Ant2	5180	7.54	≤23	14.54	--	Pass
	total	5180	10.15	≤20	17.15	--	Pass
	Ant1	5200	6.74	≤23	13.74	≤22.76	Pass
	Ant2	5200	7.54	≤23	14.54	≤22.76	Pass
	total	5200	10.17	≤20	17.17	≤22.76	Pass
	Ant1	5240	7.36	≤23	14.36	≤22.76	Pass
	Ant2	5240	7.07	≤23	14.07	≤22.76	Pass
	total	5240	10.23	≤20	17.23	≤22.76	Pass
	Ant1	5745	3.74	≤29	10.74	--	Pass
	Ant2	5745	3.67	≤29	10.67	--	Pass
	total	5745	6.72	≤26	13.72	--	Pass
	Ant1	5785	4.01	≤29	11.01	--	Pass
	Ant2	5785	3.12	≤29	10.12	--	Pass
	total	5785	6.60	≤26	13.60	--	Pass
	Ant1	5825	4.26	≤29	11.26	--	Pass
	Ant2	5825	2.15	≤29	9.15	--	Pass
	total	5825	6.34	≤26	13.34	--	Pass
	Ant1	5190	4.87	≤23	11.87	≤23	Pass
	Ant2	5190	5.70	≤23	12.70	≤23	Pass
	total	5190	8.32	≤20	15.32	≤23	Pass
11AX40MIMO	Ant1	5230	5.55	≤23	12.55	≤23	Pass
	Ant2	5230	5.34	≤23	12.34	≤23	Pass
	total	5230	8.46	≤20	15.46	≤23	Pass
	Ant1	5755	2.37	≤29	9.37	--	Pass
	Ant2	5755	1.76	≤29	8.76	--	Pass
	total	5755	5.09	≤26	12.09	--	Pass
	Ant1	5795	1.82	≤29	8.82	--	Pass
	Ant2	5795	1.23	≤29	8.23	--	Pass
	total	5795	4.55	≤26	11.55	--	Pass
	Ant1	5210	2.18	≤23	9.18	≤23	Pass
	Ant2	5210	3.43	≤23	10.43	≤23	Pass
	total	5210	5.86	≤20	12.86	≤23	Pass
11AX80MIMO	Ant1	5775	2.51	≤29	9.51	--	Pass
	Ant2	5775	2.13	≤29	9.13	--	Pass
	total	5775	5.33	≤26	12.33	--	Pass

6. Power Spectral Density

6.1. Block diagram of test setup

Same with 4.1

6.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other than Mobile and portable: 17 dBm/MHz Mobile and portable client devices: 11 dBm/MHz	5150 - 5250
	For RSS e.i.r.p: 10 dBm/MHz	
	11 dBm/MHz	5250 - 5350
	11 dBm/MHz	For FCC: 5470 - 5725 For ISDE: 5470 - 5600, 5650 - 5725
	30 dBm/500 kHz	5725 - 5850

6.3. Test procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1 MHz RBW and 3 MHz VBW.

Connect the UUT to the spectrum analyser and use the following settings:

5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

5725 MHz - 5850 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto