TEST REPORT

Report No.:	TW2303280-02E
Applicant:	Shanghai Yuejing Network Technology Co.,Ltd.
Product:	YUELIU NBOX
Model No.:	NBOX 2 Pro
Trademark:	N/A
Test Standards:	FCC Part 15 Subpart E, Paragraph 15.407
Test Result:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15 Subpart C, Paragraph 15.247 for the evaluation of electromagnetic compatibility

Approved By:

Terry Tang

Terry Tang

Manager

Dated: April 18, 2023

Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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Test Report Conclusion

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1.0 **General Details**

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688

Fax: (755) 83442996

Site Listed with Federal Communications commission (FCC)

Registration Number:744189

For 3m Anechoic Chamber

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Shanghai Yuejing Network Technology Co.,Ltd.

Address: Room 401, No.2 Building, 525 Xizang North Road, Jingan District, Shanghai

Telephone: --

Fax: --

1.3 Description of EUT

Product: YUELIU NBOX

Manufacturer: Shanghai Yuejing Network Technology Co.,Ltd.

Address: Room 401, No.2 Building, 525 Xizang North Road, Jingan District, Shanghai

Trademark: N/A

Additional Trademark: N/A

Model Number: NBOX 2 Pro

Additional Model Number: N/A

Type of Modulation IEEE 802.11a/n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK);
IEEE 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM

Frequency Band 1: 5180MHz-5240MHz;
Band 4: 5745MHz-5825MHz

Air Data Rate IEEE 802.11a: 54, 48,36, 24, 18, 12, 9, 6 Mbps
IEEE 802.11n/HT20: mcs0-mcs15
IEEE 802.11n/HT40: mcs0-mcs15
IEEE 802.11ac: NSS1 mcs0-mcs9

Antenna: Two FPC antennas used.

Antenna Gain: 2.62dBi for each one. (Get from the antenna specification)

Test Mode: During testing, EUT was set to 100% duty cycle. 6Mbps air data rate was the worst case for 802.11a mode; mcs0 air data rate was the worst case for 802.11n mode; 23.9Mbps air data rate was the worst case for 802.11ac mode.

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Frequency Selection By software
Rating: DC12V, 1A
Switching Adapter: Model: GA-1201000CL
Input: 100-240V~, 50/60Hz, 0.6A; Output: DC12V, 1000mA

Each Channel Operation Frequency

Band 1					
802.11a / 11n HT20 / 802.11ac VHT20		802.11n HT40 / 802.11acVHT40		802.11ac VHT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	38	5190 MHz	42	5210 MHz
40	5200 MHz	46	5230 MHz		
44	5220 MHz				
48	5240 MHz				
Band 4					
802.11a / 11n HT20 / 802.11ac VHT20		802.11n HT40 / 802.11acVHT40		802.11ac VHT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745 MHz	151	5755 MHz	155	5775 MHz
153	5765 MHz	159	5795 MHz		
157	5785 MHz				
161	5825 MHz				

The selected test channels as follows:

Band 1					
802.11a / 11n HT20		802.11n HT40		802.11ac VHT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	38	5190 MHz	42	5210 MHz
40	5200 MHz	46	5230 MHz		
48	5240 MHz				

Band 4					
802.11a / 11n HT20		802.11n HT40		802.11ac VHT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745 MHz	151	5755 MHz	155	5775 MHz
153	5765 MHz	159	5795 MHz		
161	5825 MHz				

Note: 802.11ac VHT20/VHT40 is similar with 802.11n HT20/HT40.

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration
2023-03-17 to 2023-04-18

1.6 Test Uncertainty
Conducted Emissions Uncertainty =3.6dB
Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by _____

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2022-07-15	2023-07-14
RF Cable	Zhengdi	7m	--	2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.407	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart E Paragraph 15.407 (b1/4/5/6/7), Part 15.205 and Part 15.209	Undesirable Emission and Restrict band	Pass	Complies
FCC Part 15, Paragraph 15.407 (a1/2/3)	Peak Transmit Power	Pass	Complies
FCC Part 15, Paragraph 15.407 (a)(6)	Peak Power Excursion	Pass	Complies
FCC Part 15, Paragraph 15.407 (a/1/2/3)	Peak Power Spectral Density	Pass	Complies
FCC Part 15, Paragraph 15.407(g)	Frequency Stability	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247, ANSI C63.10 :2013, ANSI C63.4 :2014
789033 D02 General UNII Test Procedures New Rules v01r04

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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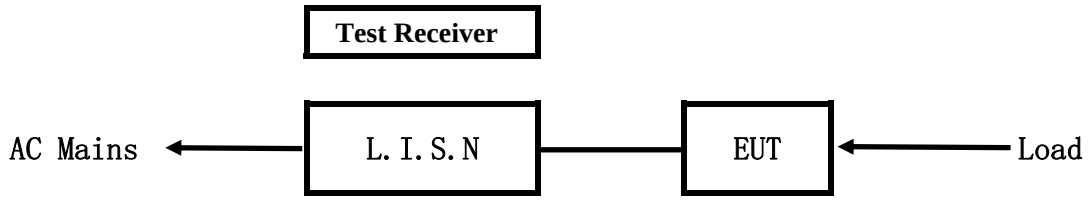
5. Power Line Conducted Emission Test

5.1 Schematics of the test



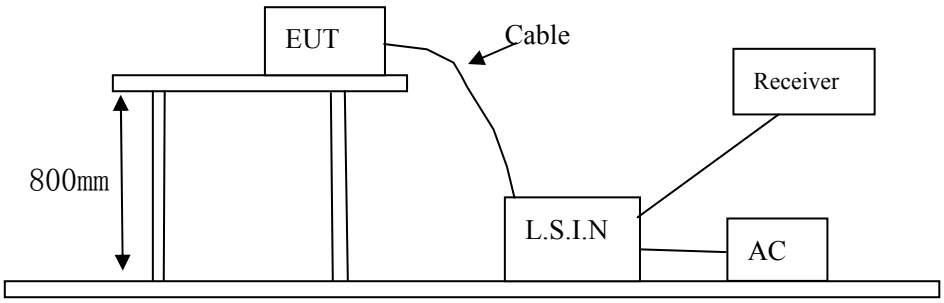
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013.The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10–2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
YUELIU NBOX	Shanghai Yuejing Network Technology Co.,Ltd.	NBOX 2 Pro	2BAZV-NBOX2PRO

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10 -2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ～ 0.50	66.0～56.0*	56.0～46.0*
0.50 ～ 5.00	56.0	46.0
5.00 ～ 30.00	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

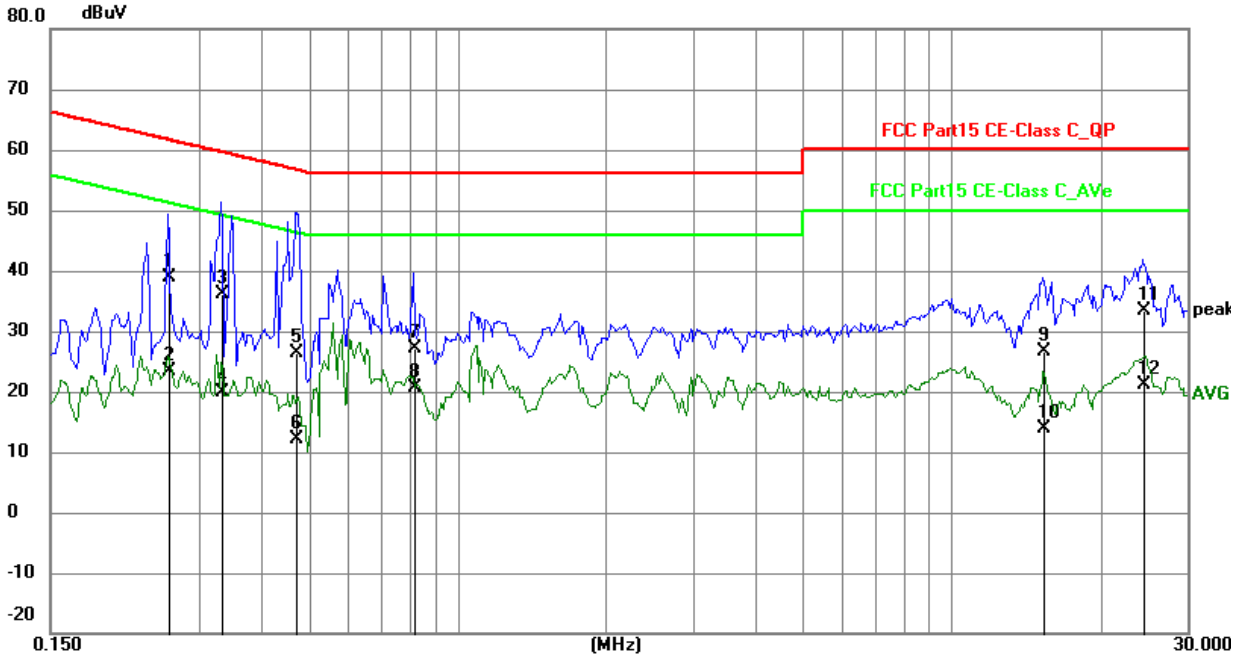
EUT Operating Environment

Temperature: 26℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keeping WIFI Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2592	29.25	9.75	39.00	61.46	-22.46	QP	P
2	0.2592	13.51	9.75	23.26	51.46	-28.20	AVG	P
3	0.3333	26.39	9.76	36.15	59.37	-23.22	QP	P
4	0.3333	10.11	9.76	19.87	49.37	-29.50	AVG	P
5	0.4698	16.55	9.77	26.32	56.52	-30.20	QP	P
6	0.4698	2.41	9.77	12.18	46.52	-34.34	AVG	P
7	0.8169	17.26	9.78	27.04	56.00	-28.96	QP	P
8	0.8169	10.90	9.78	20.68	46.00	-25.32	AVG	P
9	15.3591	16.33	10.40	26.73	60.00	-33.27	QP	P
10	15.3591	3.40	10.40	13.80	50.00	-36.20	AVG	P
11	24.4032	22.34	10.95	33.29	60.00	-26.71	QP	P
12	24.4032	10.14	10.95	21.09	50.00	-28.91	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

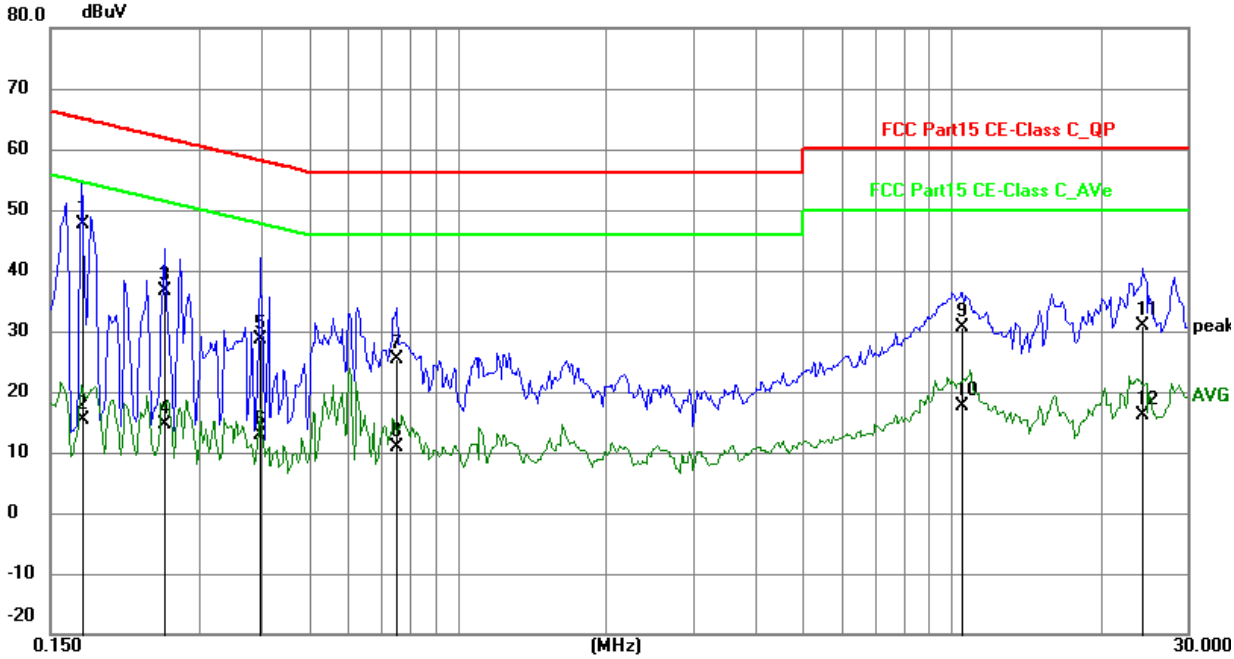
EUT Operating Environment

Temperature: 26℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keeping WIFI Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	37.88	9.77	47.65	64.80	-17.15	QP	P
2	0.1734	5.52	9.77	15.29	54.80	-39.51	AVG	P
3	0.2553	26.94	9.75	36.69	61.58	-24.89	QP	P
4	0.2553	4.98	9.75	14.73	51.58	-36.85	AVG	P
5	0.3996	18.80	9.76	28.56	57.86	-29.30	QP	P
6	0.3996	3.15	9.76	12.91	47.86	-34.95	AVG	P
7	0.7545	15.53	9.78	25.31	56.00	-30.69	QP	P
8	0.7545	1.01	9.78	10.79	46.00	-35.21	AVG	P
9	10.4997	20.46	10.18	30.64	60.00	-29.36	QP	P
10	10.4997	7.39	10.18	17.57	50.00	-32.43	AVG	P
11	24.2862	19.85	10.95	30.80	60.00	-29.20	QP	P
12	24.2862	5.10	10.95	16.05	50.00	-33.95	AVG	P

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6 Undesirable Emission and Restrict band

6.1 Test Method and test Procedure:

(1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189

(2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.

(3) The frequency spectrum from 30 MHz to 40 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz, VBW=3MHz and PK detector.
Measurements were made at 3 meters.

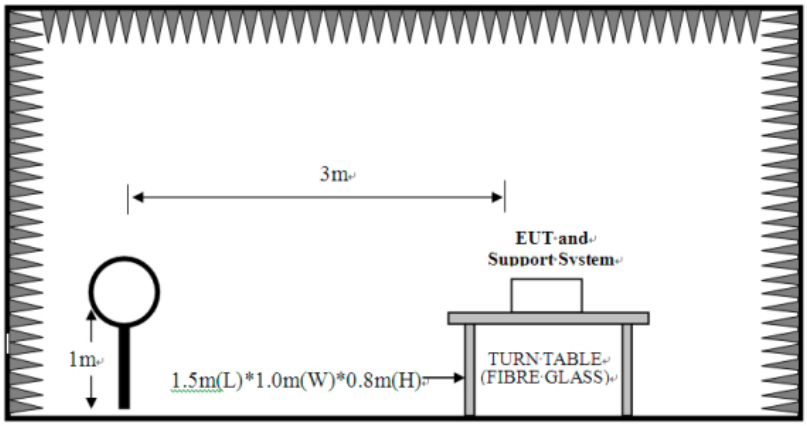
(4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

(5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.

(6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



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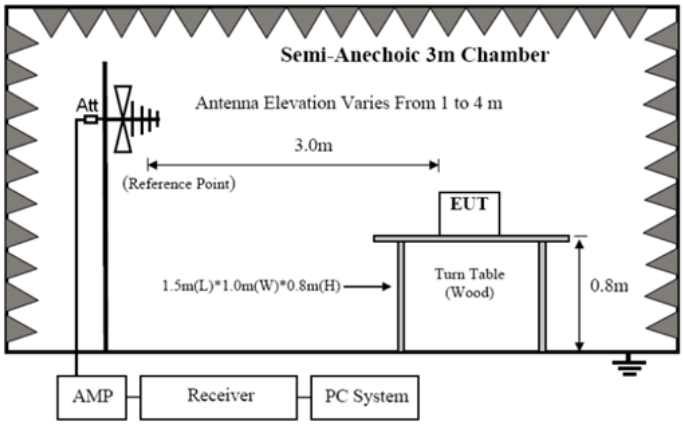
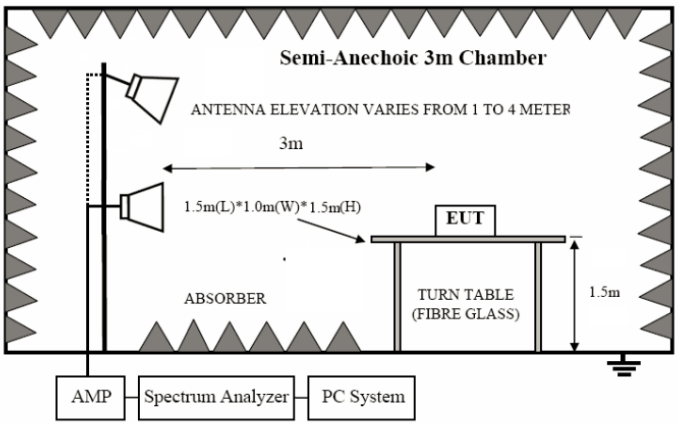
For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz

(2) For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27dBm/MHz.

Note: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the higher limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: **Keeping WIFI Transmitting**

Results: **Pass**

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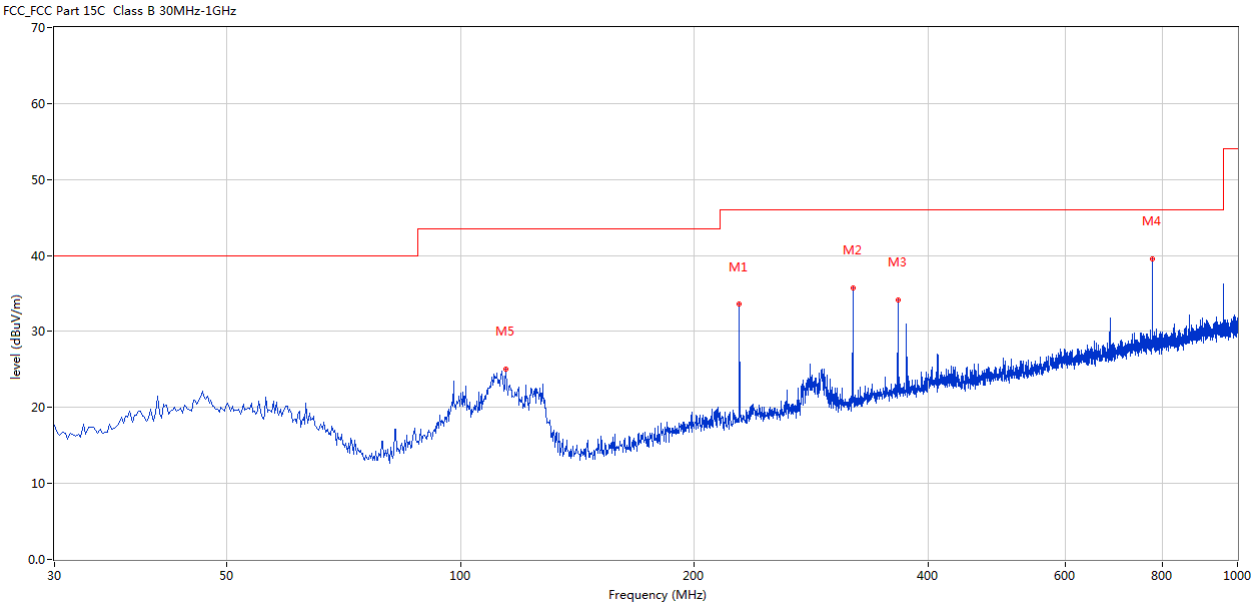
Test Figure



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	228.315	33.56	-12.75	46.0	-12.44	Peak	73.00	200	Horizontal	Pass
2	319.958	35.73	-10.60	46.0	-10.27	Peak	0.00	200	Horizontal	Pass
3	365.536	34.11	-9.45	46.0	-11.89	Peak	165.00	100	Horizontal	Pass
4	776.713	39.55	-3.13	46.0	-6.45	Peak	47.00	100	Horizontal	Pass
5	114.369	25.00	-14.32	43.5	-18.50	Peak	314.00	200	Horizontal	Pass

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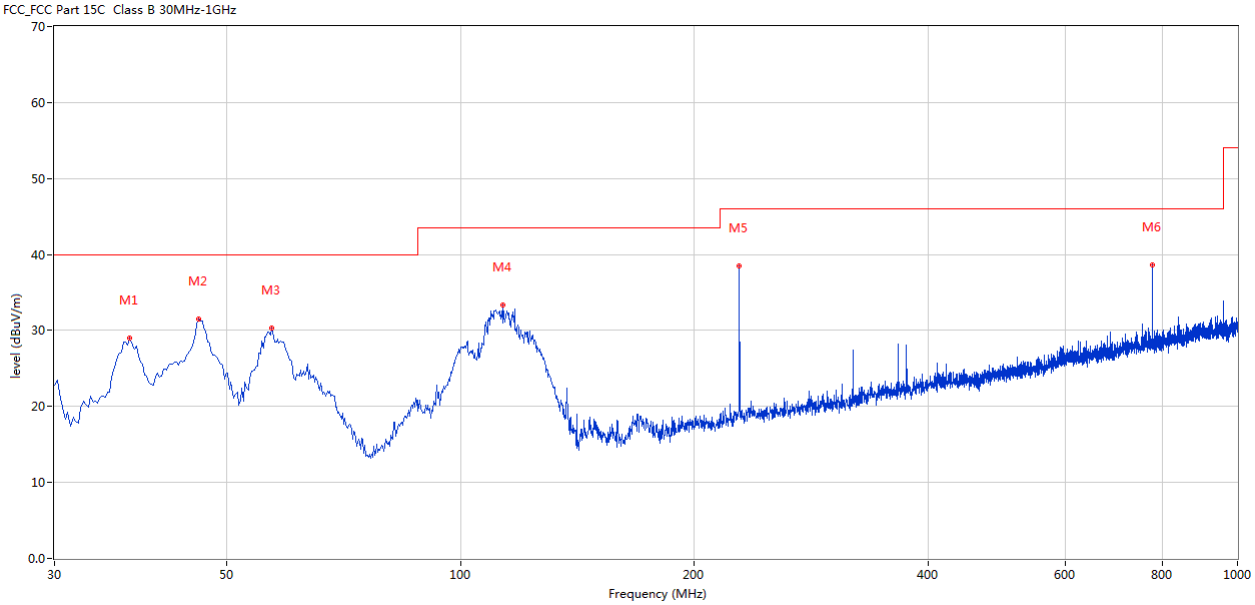
Test Figure



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	37.516	29.05	-12.95	40.0	-10.95	Peak	235.00	100	Vertical	Pass
2	46.001	31.47	-11.40	40.0	-8.53	Peak	0.00	200	Vertical	Pass
3	57.153	30.36	-12.37	40.0	-9.64	Peak	9.00	100	Vertical	Pass
4	113.399	33.39	-14.12	43.5	-10.11	Peak	360.00	100	Vertical	Pass
5	228.315	38.56	-12.75	46.0	-7.44	Peak	0.00	200	Vertical	Pass
6	776.713	38.59	-3.13	46.0	-7.41	Peak	102.00	100	Vertical	Pass

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Operation Mode: Keeping Transmitting under CH36 for 11g at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5180.00	89.13（PK）	H	Fundamental Frequency
5180.00	83.36（PK）	V	
10360	--	H	74(Peak)/ 54(AV)
10360	--	V	74(Peak)/ 54(AV)
15540	--	V	74(Peak)/ 54(AV)
20720	--	H/V	74(Peak)/ 54(AV)
25900	--	H/V	74(Peak)/ 54(AV)
31080	--	H/V	74(Peak)/ 54(AV)
36260	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11a mode 6Mbps

Operation Mode: Keeping Transmitting under CH40 for 11g at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5200.00	90.81（PK）	H	Fundamental Frequency
5200.00	82.19（PK）	V	
10400	--	H	74(Peak)/ 54(AV)
10400	--	V	74(Peak)/ 54(AV)
15600	--	V	74(Peak)/ 54(AV)
20800	--	H/V	74(Peak)/ 54(AV)
26000	--	H/V	74(Peak)/ 54(AV)
31200	--	H/V	74(Peak)/ 54(AV)
36400	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11a mode 6Mbps

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Operation Mode: Keeping Transmitting under CH48 for 11g at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5240.00	88.84（PK）	H	Fundamental Frequency
5240.00	83.66（PK）	V	
10480	--	H	74(Peak)/ 54(AV)
10480	--	V	74(Peak)/ 54(AV)
15720	--	H/V	74(Peak)/ 54(AV)
20960	--	H/V	74(Peak)/ 54(AV)
26200	--	H/V	74(Peak)/ 54(AV
31440	--	H/V	74(Peak)/ 54(AV)
36680	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11a mode 6Mbps

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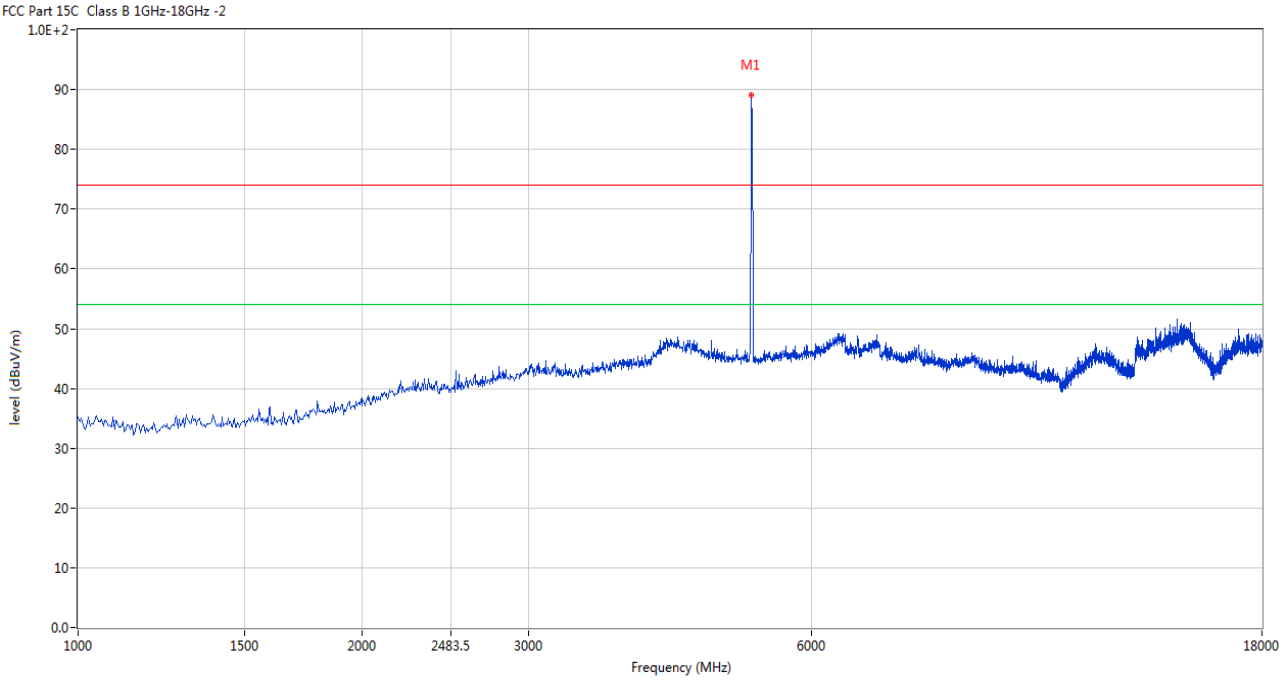
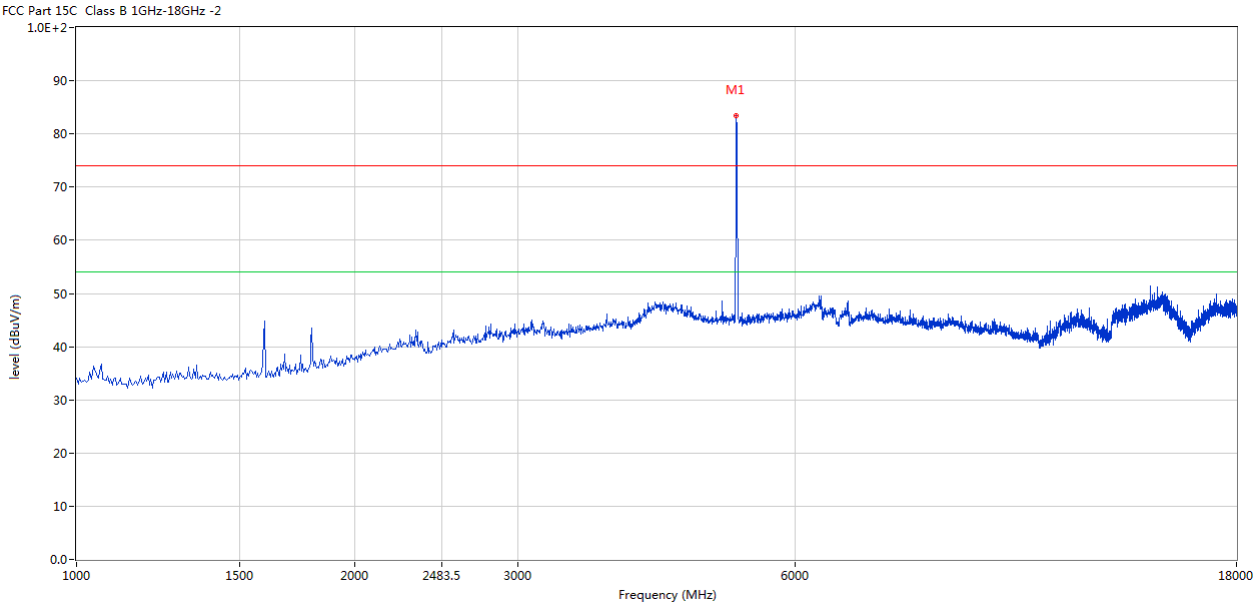
Please refer to the following test plots for details:

CH36 for 11a at 6Mbps: Horizontal



CH36 for 11a at 6Mbps: Vertical



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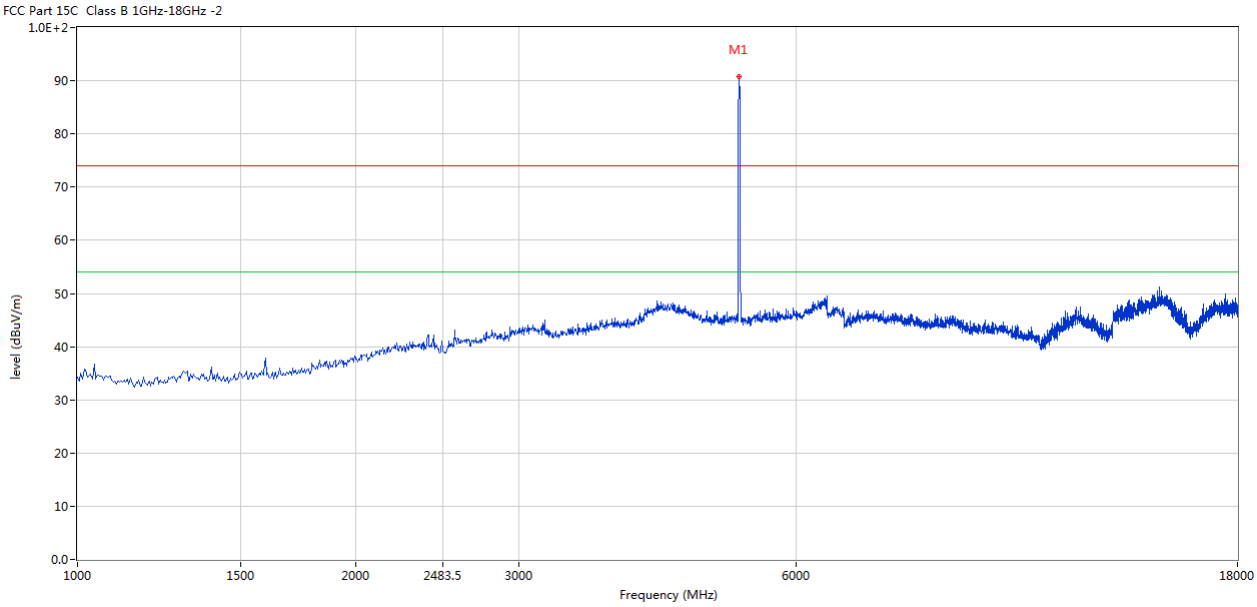
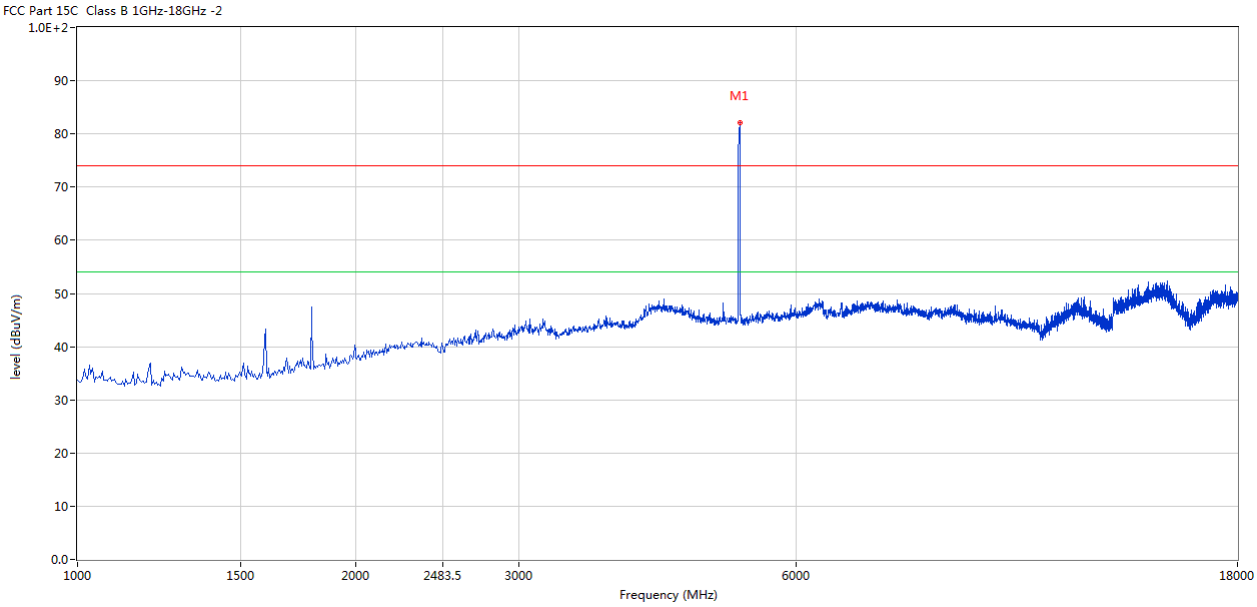
CH40 for 11a at 6Mbps: Horizontal



CH40 for 11a at 6Mbps: Vertical



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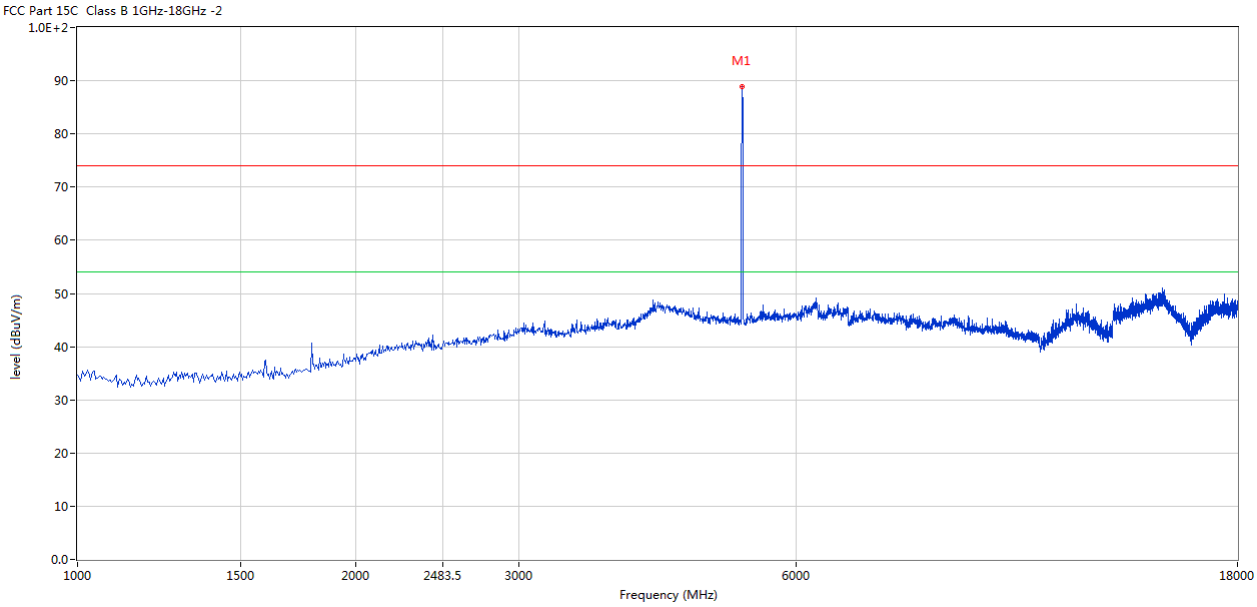
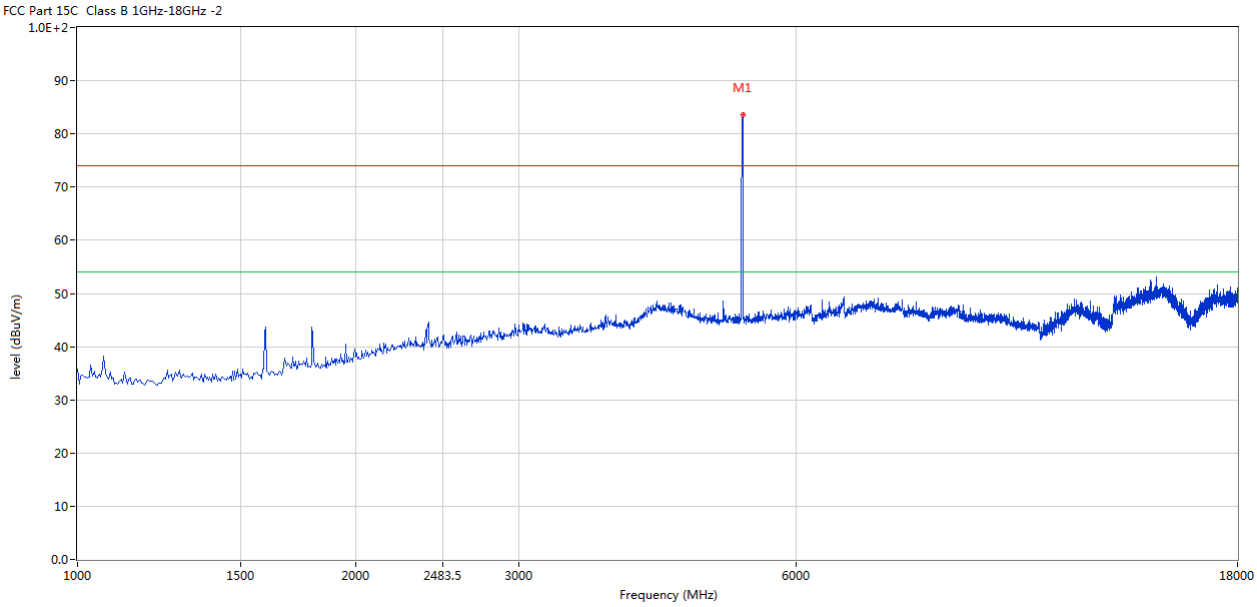
CH48 for 11a at 6Mbps: Horizontal



CH48 for 11g at 6Mbps: Vertical



Note: 1.For radiated Emissions from 18-40GHz and below 30MHz, it is only the floor noise.

2. 802.11a is the worst case.

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 36 (5180MHz)-11a
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	45.9 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.3		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 45.9 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=45.9-95.2=-49.3dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 36 (5180MHz)-11a
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	42.8 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-52.4		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 42.8 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=42.8-95.2=-52.4dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 48 (5240MHz)-11a
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	49.5 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-45.7		
Polarity	Horizontal			

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 49.5dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=49.5-95.2=-45.7dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 48 (5240MHz)-11a
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	46.2 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.0		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 46.2dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=46.2-95.2=-49.0dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 149 (5745MHz)-11a
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	53.9 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-41.3		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 53.9 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=53.9-95.2=-41.3dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 149 (5745MHz)-11a
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	47.3(PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-47.9		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 47.3 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=47.3-95.2=-47.9dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 161 (5825MHz)-11a
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	55.6(PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-39.6		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 55.6dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=55.6-95.2= -39.6dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 161 (5825MHz)-11a
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	50.9 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-44.3		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]=50.9 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=50.9-95.2=-44.3dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	46.9(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-48.3		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 46.9 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=46.9-95.2=-48.3dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	43.4 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-51.8		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 43.4dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=43.4-95.2=-51.8dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	47.3(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-47.9		
Polarity	Horizontal			

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 47.3dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=47.3-95.2=-47.9dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	44.1(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-51.1		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 44.1dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=44.1-95.2=-51.1dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 149 (5745MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	50.8 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-44.4		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 50.8dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=50.8-95.2=-44.4dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 149 (5745MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	46.4(PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-48.8		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 46.4dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=46.4-95.2= -48.8 dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 161 (5825MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	50.9 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-44.3		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 50.9dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=50.9-95.2= -44.3dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 161 (5825MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	46.7 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-48.5		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 46.7dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=46.7-95.2=-48.5dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	44.6(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-50.6		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 44.6dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=44.6-95.2=-50.6dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	42.7 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-52.5		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 42.7dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=42.7-95.2=-52.5dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	48.9(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-46.3		
Polarity	Horizontal			

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 48.9dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=48.9-95.2=-46.3dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	45.4(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.8		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 45.4dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=45.4-95.2=-49.8dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 151 (5755MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	51.9(PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-43.3		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 51.9 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=51.9 -95.2= -43.3dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 151 (5755MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	46.1(PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-49.1		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 46.1dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=46.1-95.2=-49.1dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 159 (5795MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	53.7 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-41.5		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 53.7dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=53.7-95.2=-41.5dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 159 (5795MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	47.6(PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-47.6		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 47.6 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=47.6-95.2=--47.6 dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 42 (5210MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	47.8 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-47.4		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 47.8 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=47.8-95.2=-47.4dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 42 (5210MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	45.6 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.6		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 45.6dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=45.6-95.2= -49.6dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 155 (5775MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	52.1 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-43.1		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 52.1 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=52.1-95.2=-43.1 dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	YUELIU NBOX		Test Mode:	Channel 157 (5775MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	47.7(PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-47.5		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:
EIRP[dBm] = E[dBμV/m] - 95.2
For Example, if E[dBμV/m]= 47.7dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=47.7-95.2=-47.5dBm
2. RBW=1MHz, VBW=3MHz

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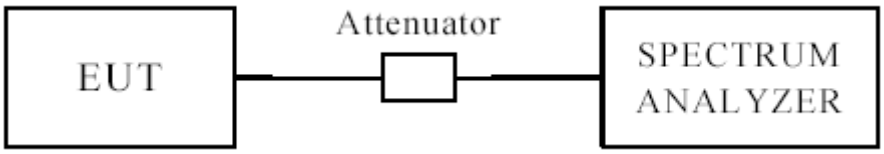
7.0 Emission Bandwidth

7.1 Test Setup



7.3 Test Procedure for Emission Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW> RBW
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

7.4 Test Procedure for Minimum Bandwidth for the Band 5725-5850MHz

1. Set RBW = 100 kHz.
2. Set VBW≥ 3 × RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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.

7.5 Test Procedure for 99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency
2. Set span = 1.5 times to 5.0 times OBW
3. Set RBW= 1% TO 5% of the OBW
4. Set VBW≥ 3 × RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Other, peak detection and max mode (until trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument

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7.6 Test Result

EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11a	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
36	5180	6	23.39	--	Pass
40	5200	6	23.27	--	Pass
48	5240	6	22.79	--	Pass
99% Bandwidth					
36	5180	6	16.95	--	Pass
40	5200	6	16.95	--	Pass
48	5240	6	16.95	--	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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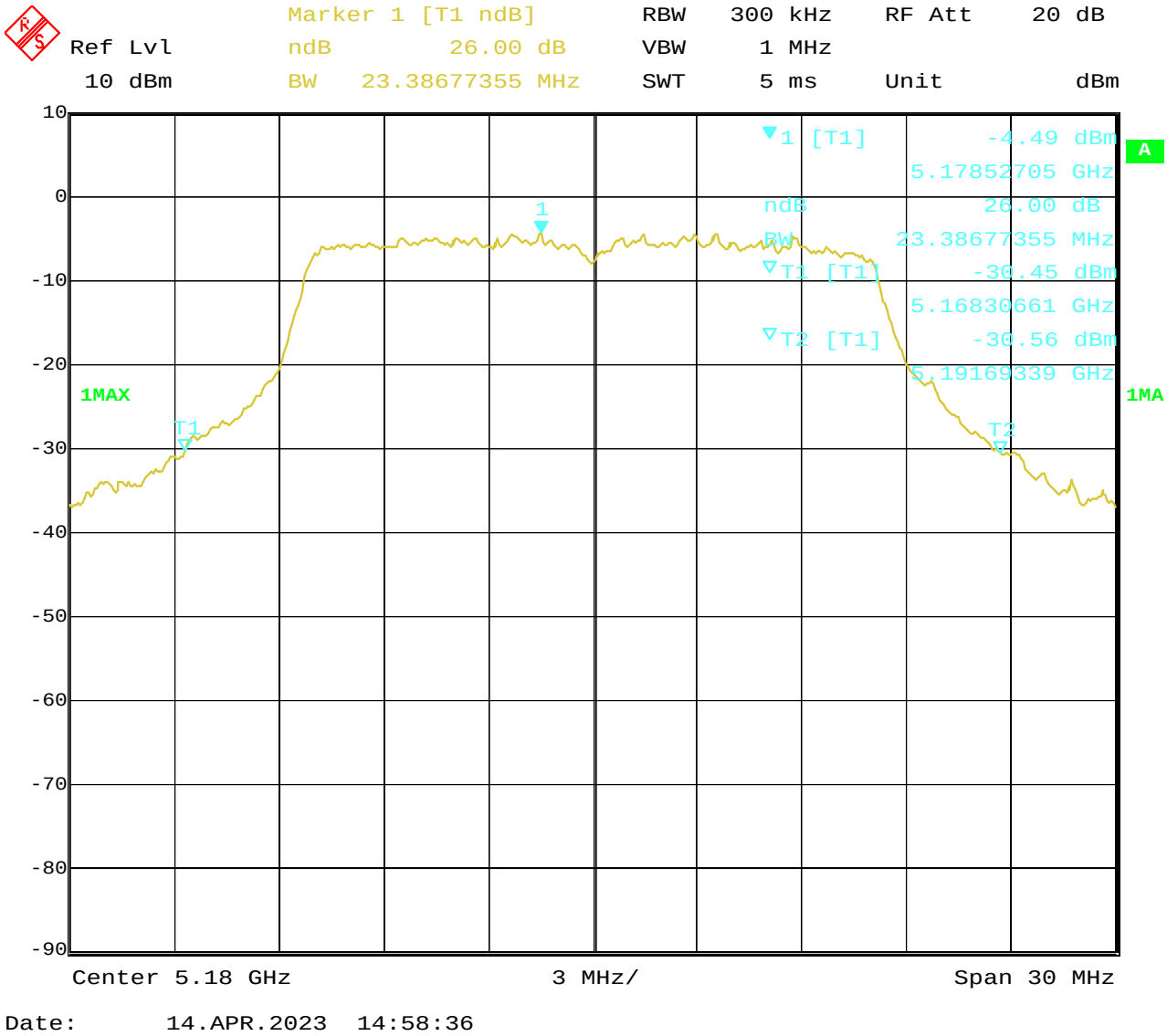
Test Figure:

26dB Bandwidth

Channel 36



Date: 14.APR.2023 14:58:36

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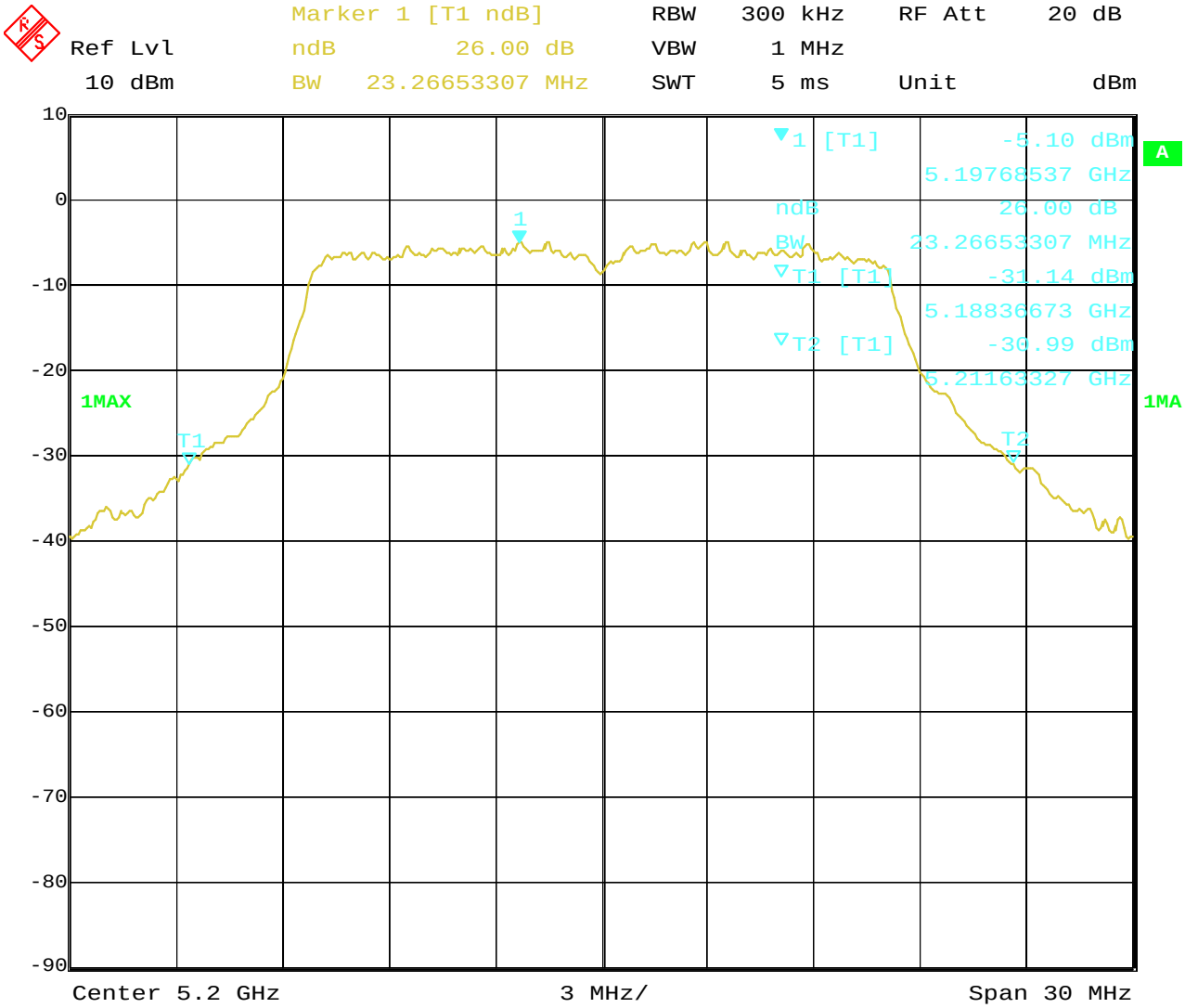
Channel 40



Date: 14.APR.2023 15:03:10

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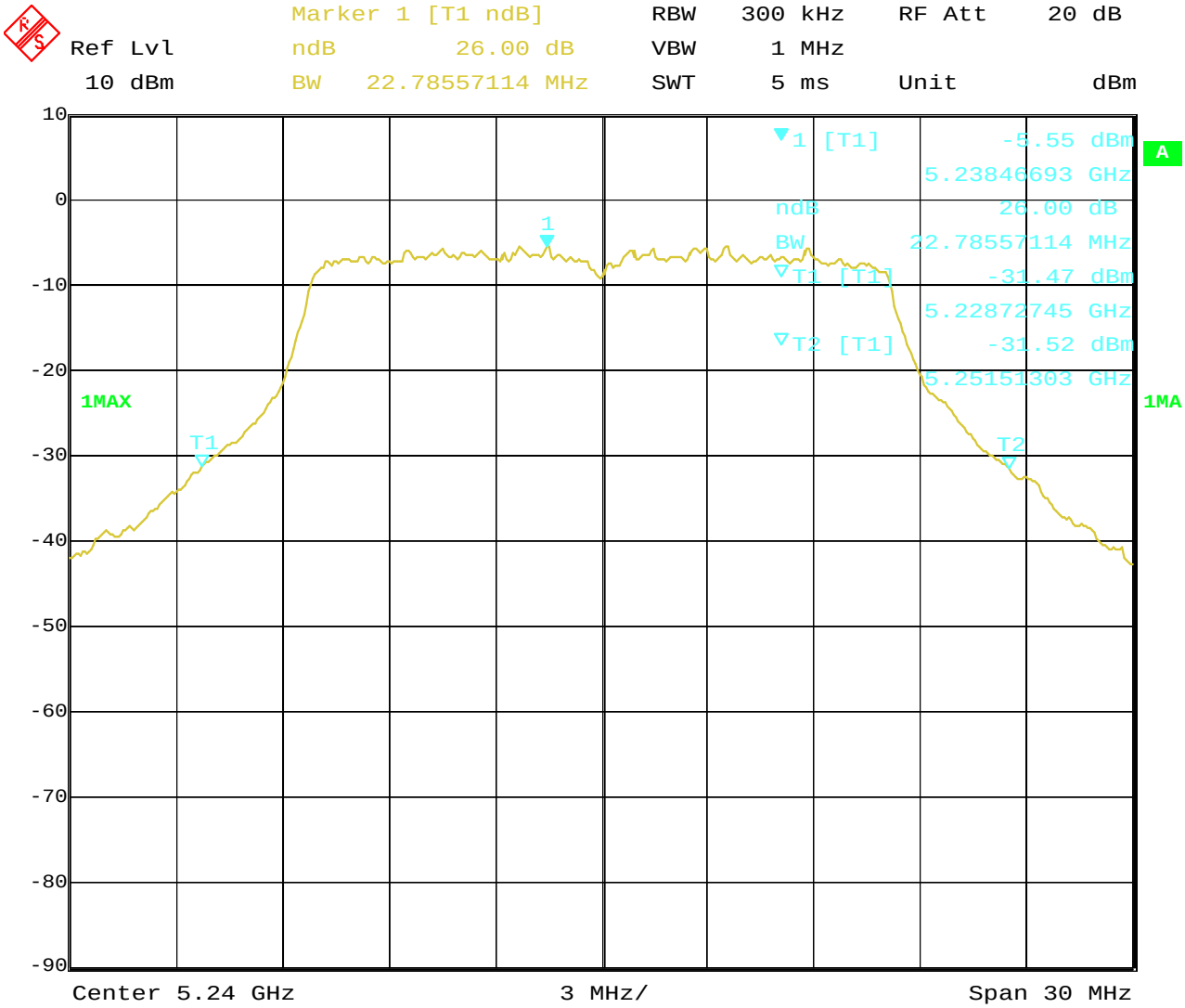
Channel 48



Date: 14.APR.2023 15:09:21

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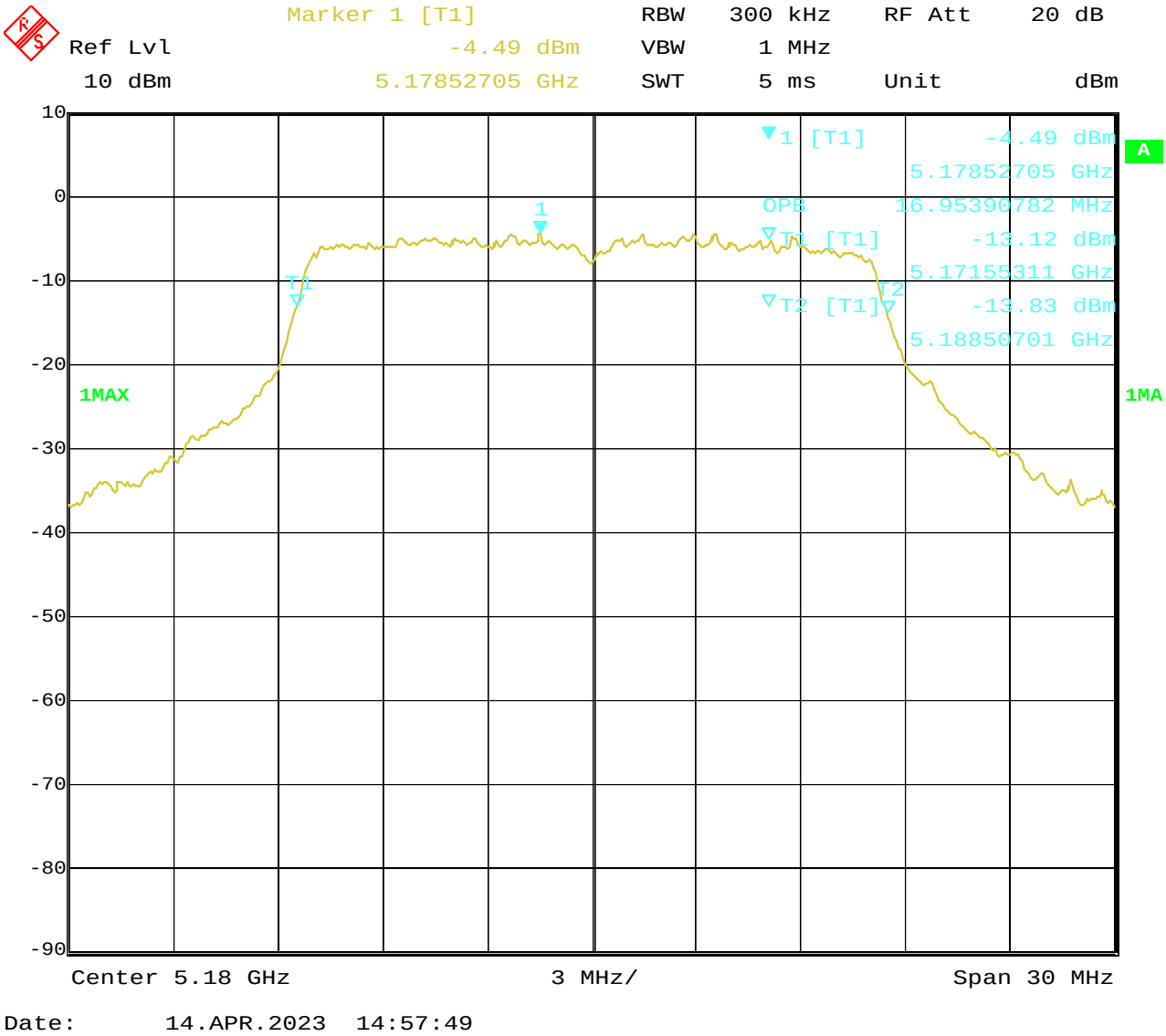
Test Figure:

99% Bandwidth

Channel 36



Date: 14.APR.2023 14:57:49

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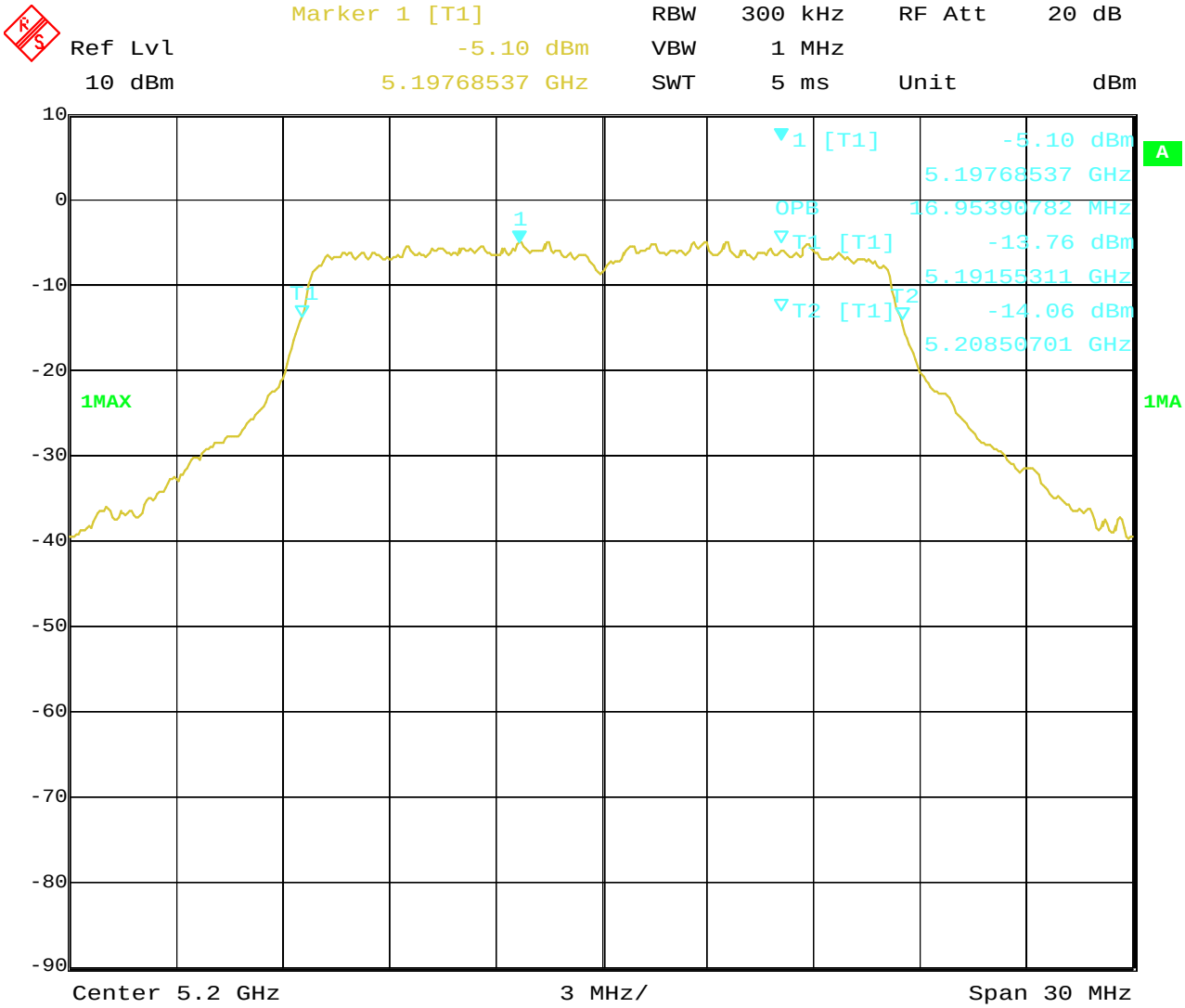
Channel 40



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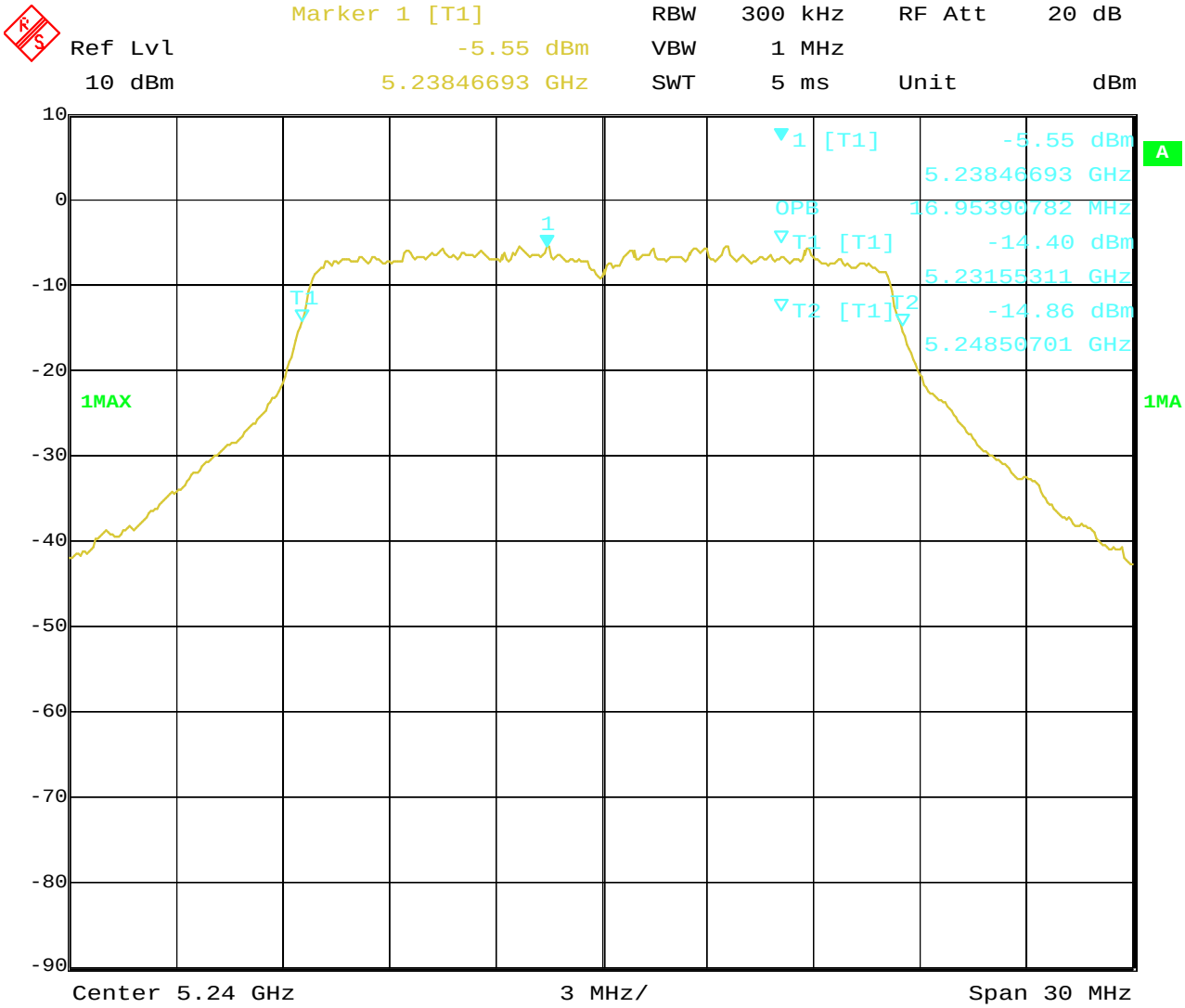
Channel 48



Date: 14.APR.2023 15:09:03

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11a	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
149	5745	6	22.30	--	Pass
153	5765	6	22.61	--	Pass
161	5825	6	26.39	--	Pass
6dB Bandwidth					
149	5745	6	16.10	0.5	Pass
153	5765	6	16.37	0.5	Pass
161	5825	6	16.29	0.5	Pass
99% Bandwidth					
149	5745	6	16.95	--	Pass
153	5765	6	16.95	--	Pass
161	5825	6	17.37	--	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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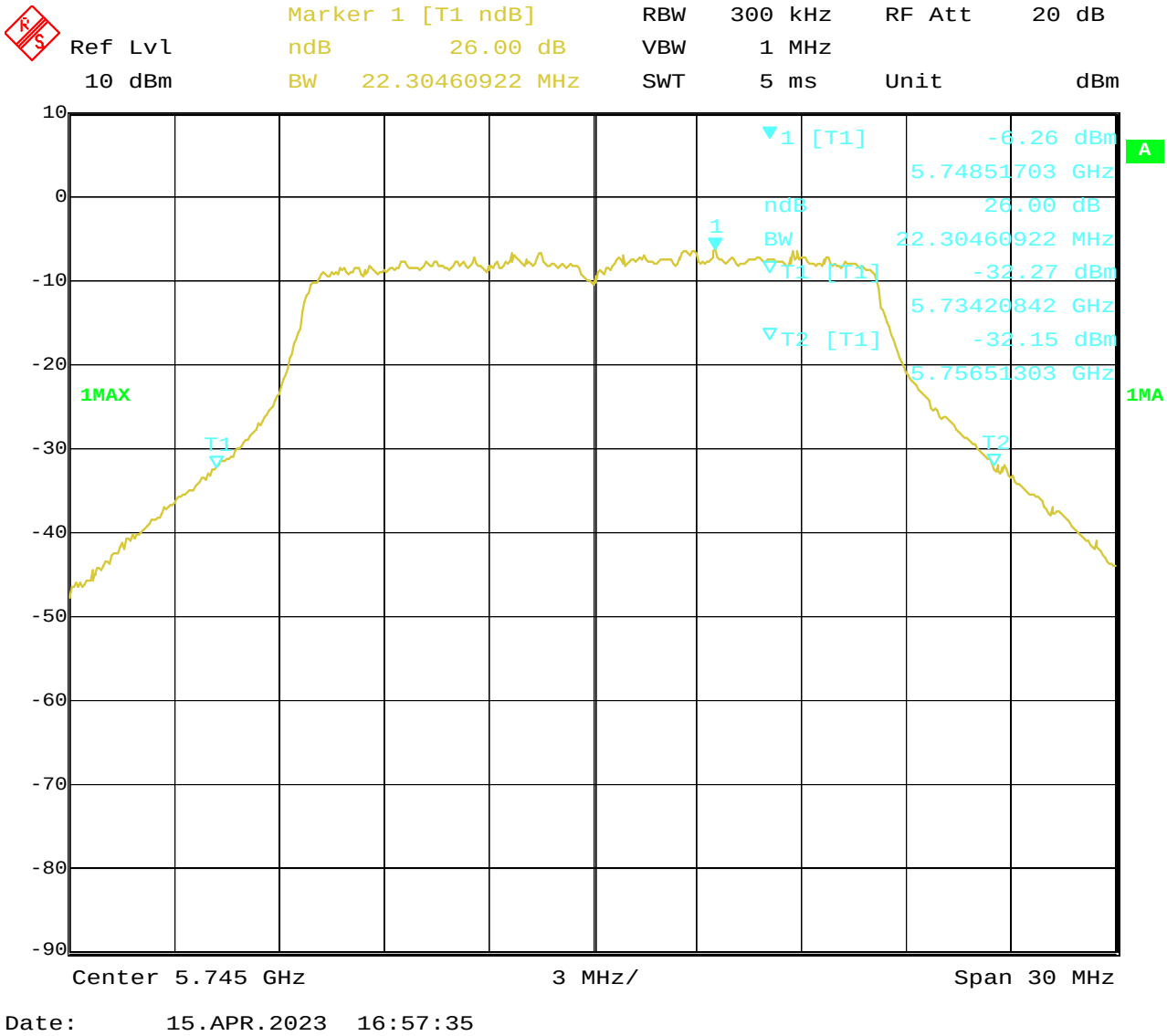
Test Figure:

26dB Bandwidth

Channel 149



Date: 15.APR.2023 16:57:35

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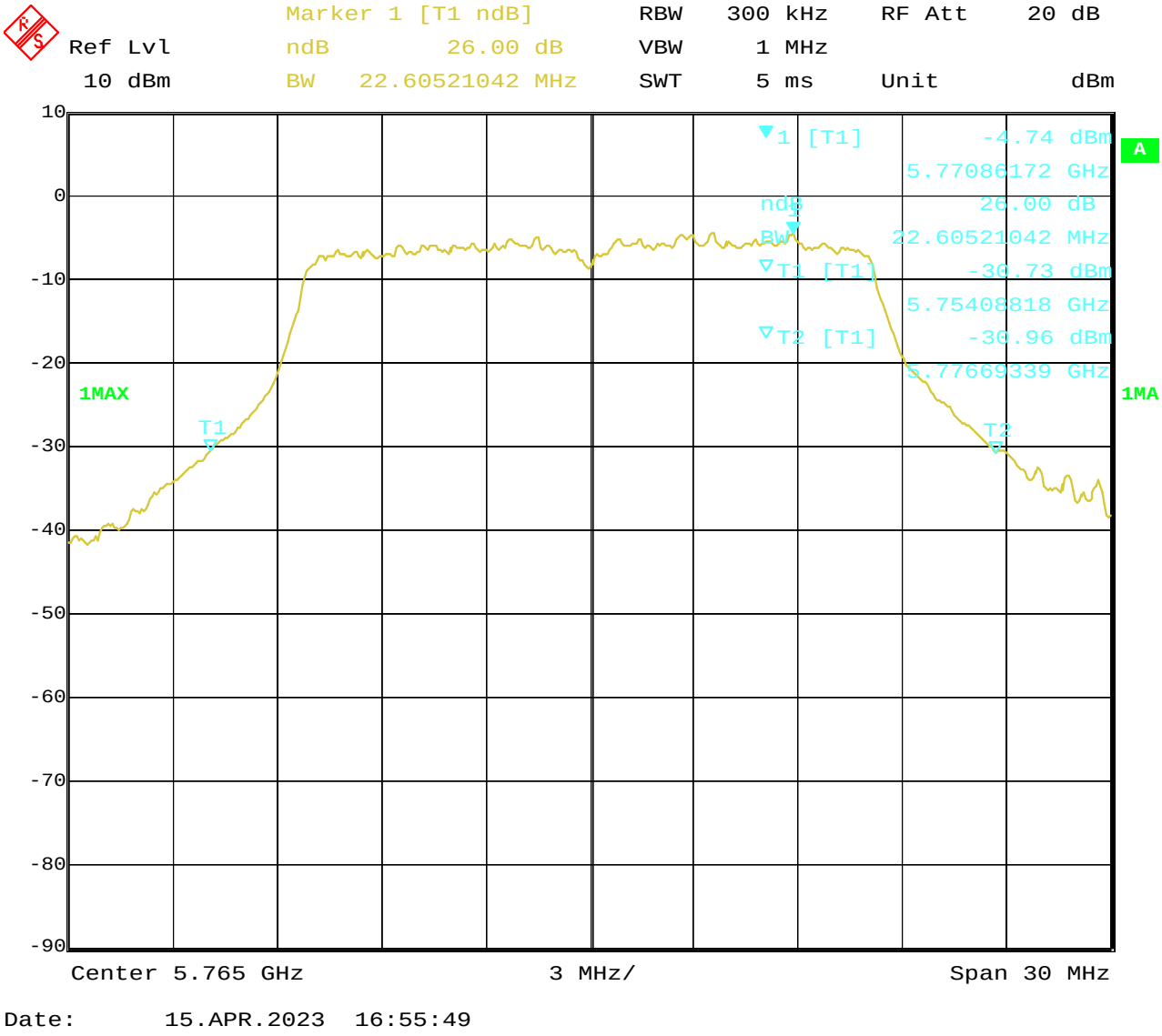
Channel 153



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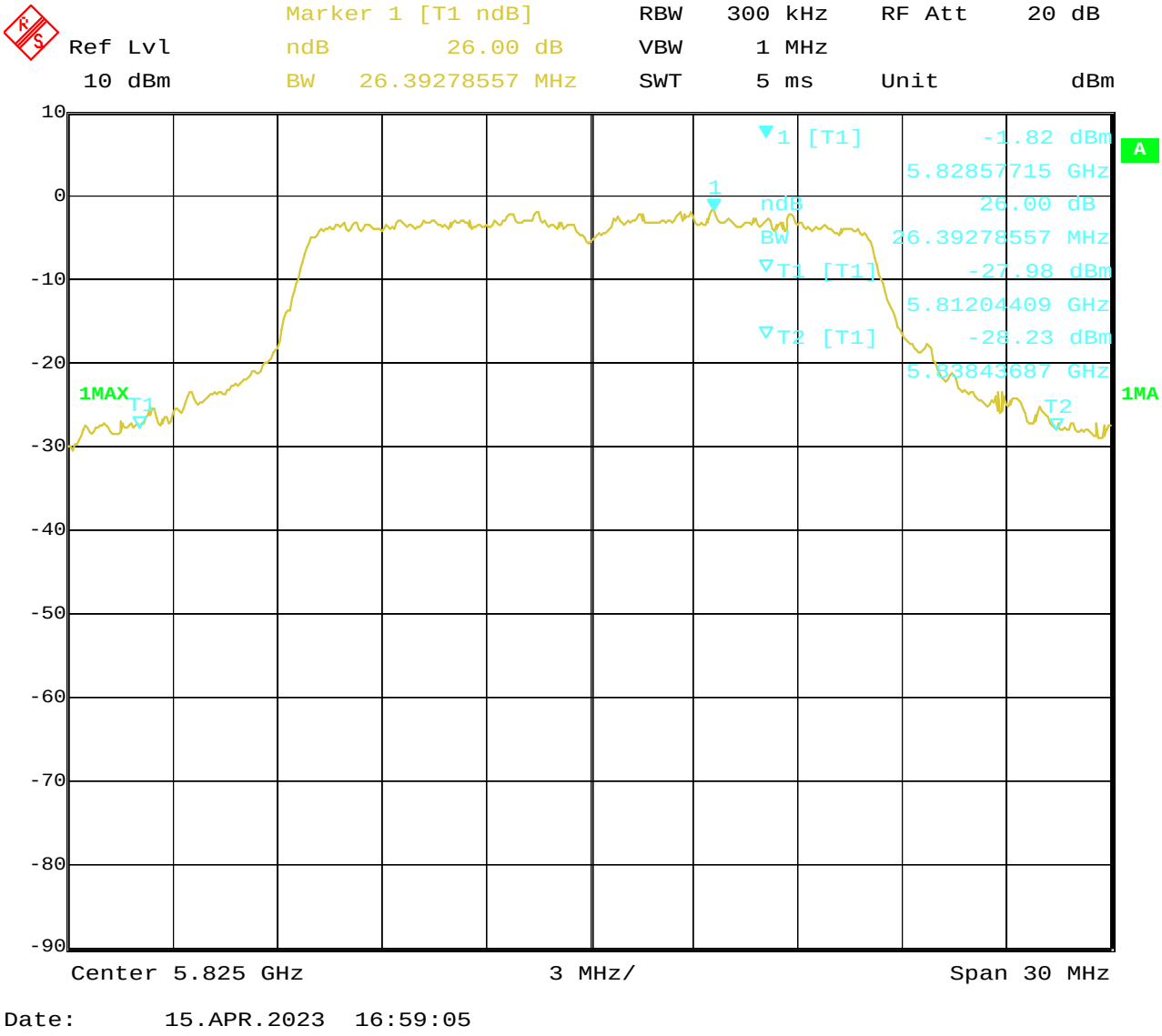
Channel 161



Date: 15.APR.2023 16:59:05

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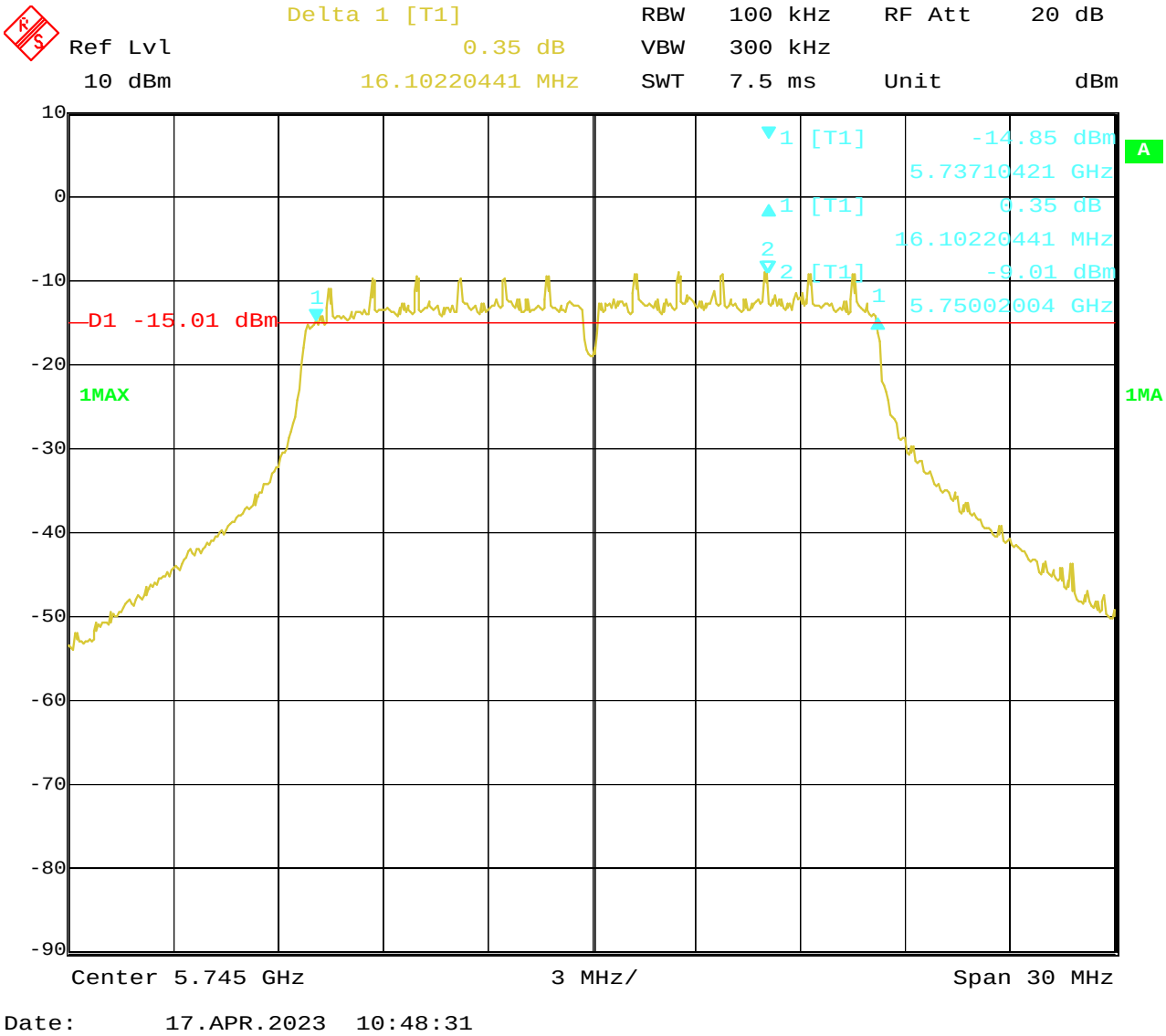
Test Figure:

6dB Bandwidth

Channel 149



Date: 17.APR.2023 10:48:31

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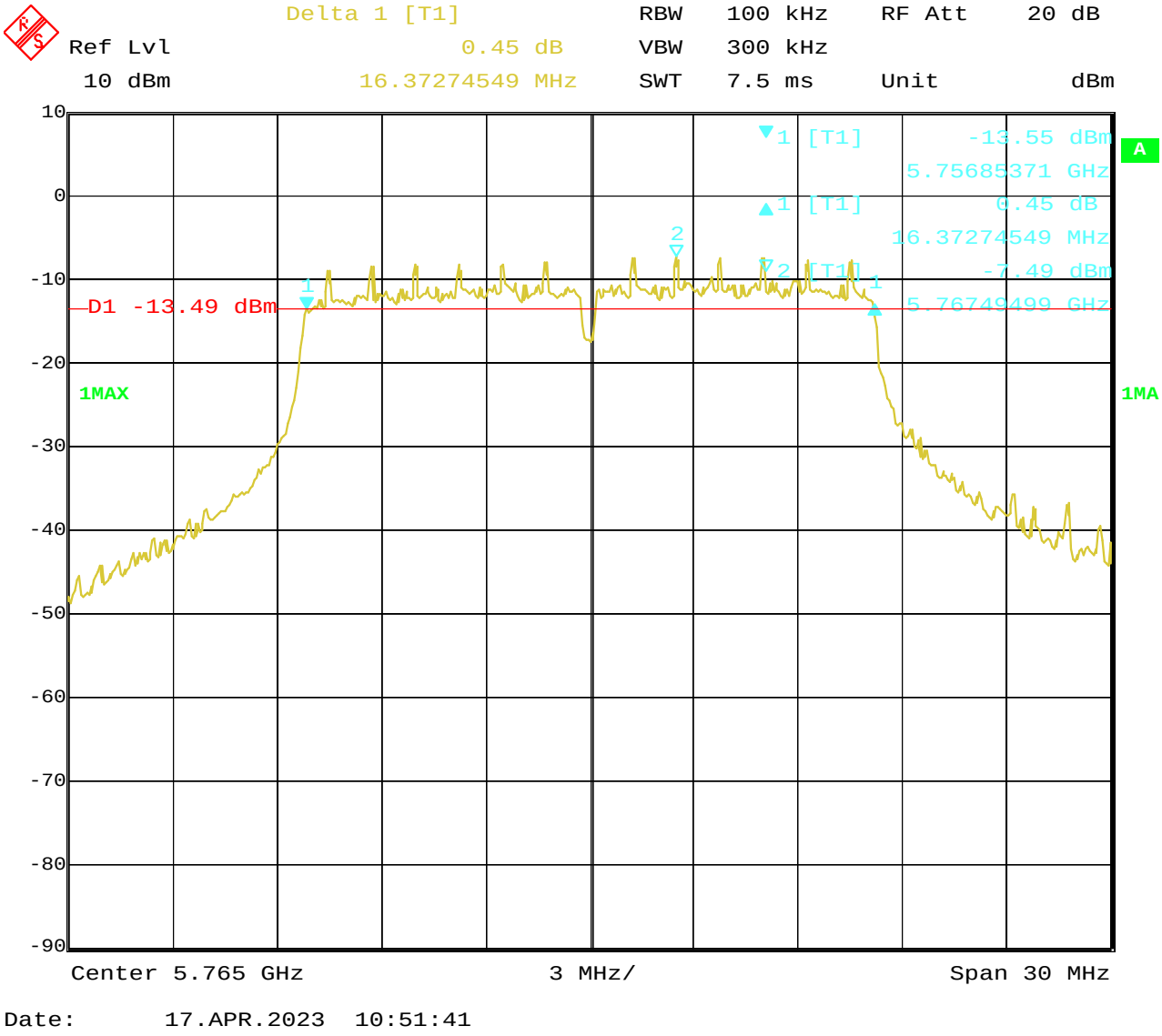
Channel 153



Date: 17.APR.2023 10:51:41

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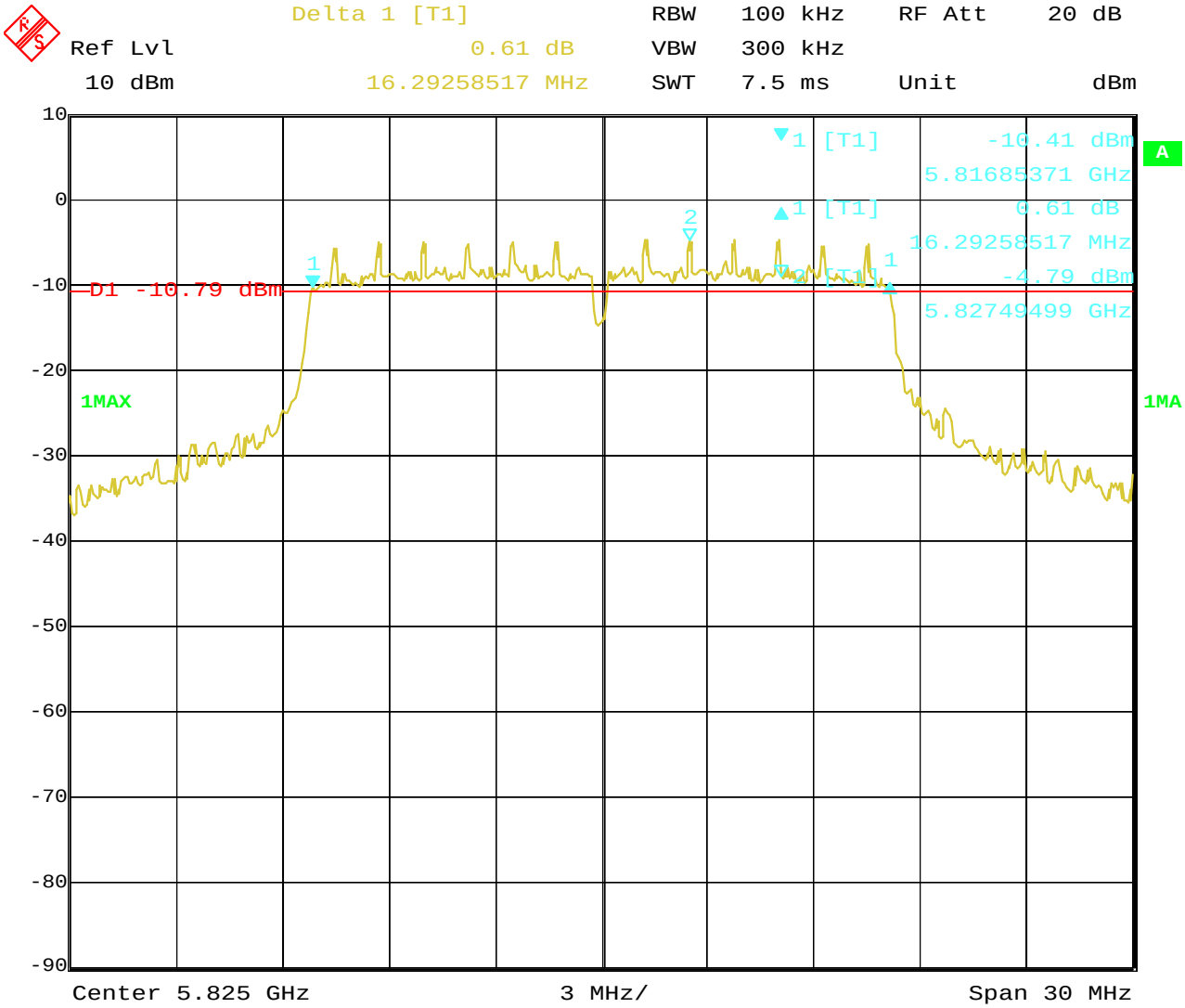
Channel 161



Date: 17.APR.2023 10:56:45

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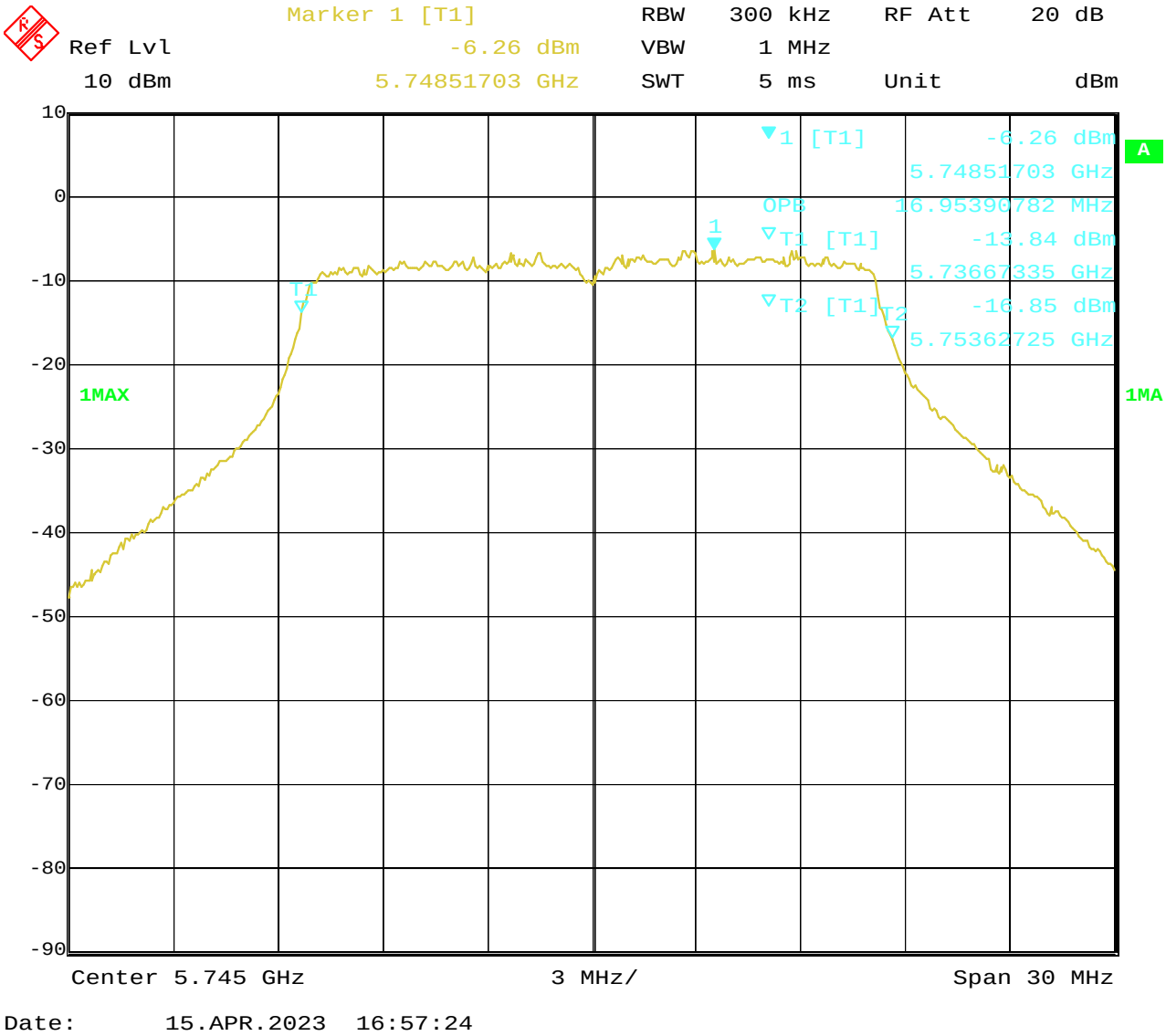
Test Figure:

99% Bandwidth

Channel 149



Date: 15.APR.2023 16:57:24

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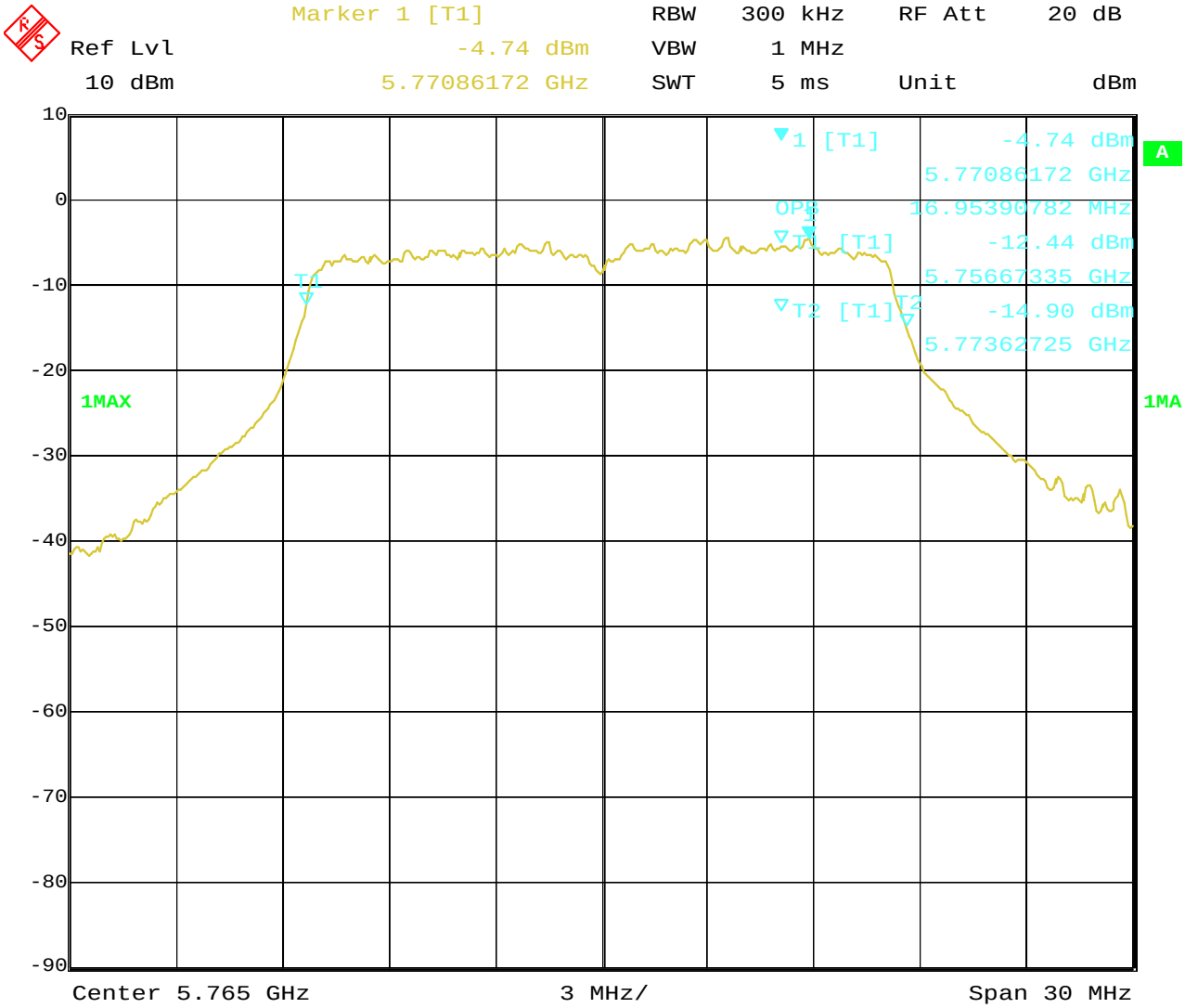
Channel 153



Date: 15.APR.2023 16:56:08

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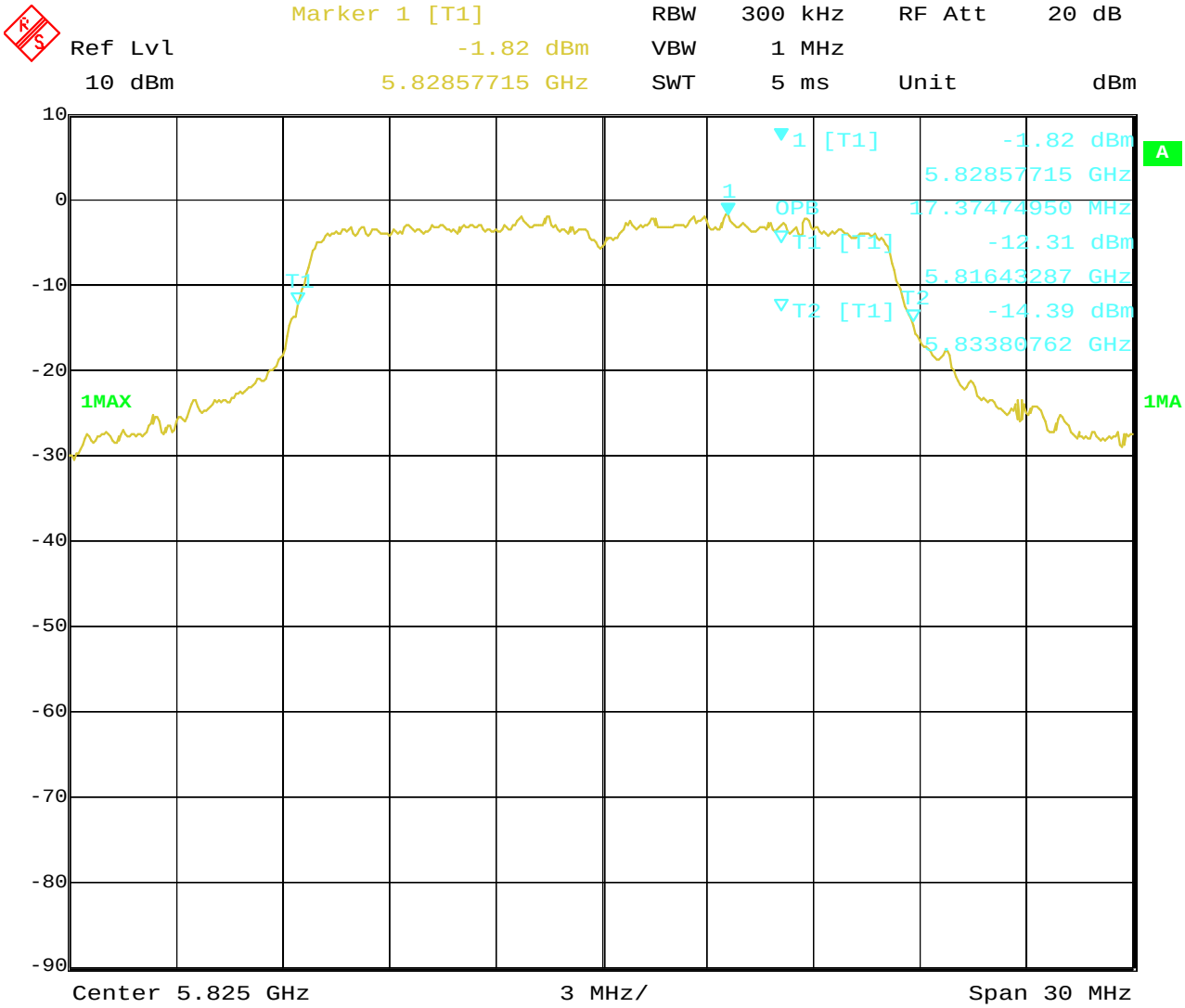
Channel 161



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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11n HT20	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
36	5180	mcs0	23.63	--	Pass
40	5200	mcs0	23.57	--	Pass
48	5240	mcs0	23.39	--	Pass
99% Bandwidth					
36	5180	mcs0	18.16	--	Pass
40	5200	mcs0	18.10	--	Pass
48	5240	mcs0	18.10	--	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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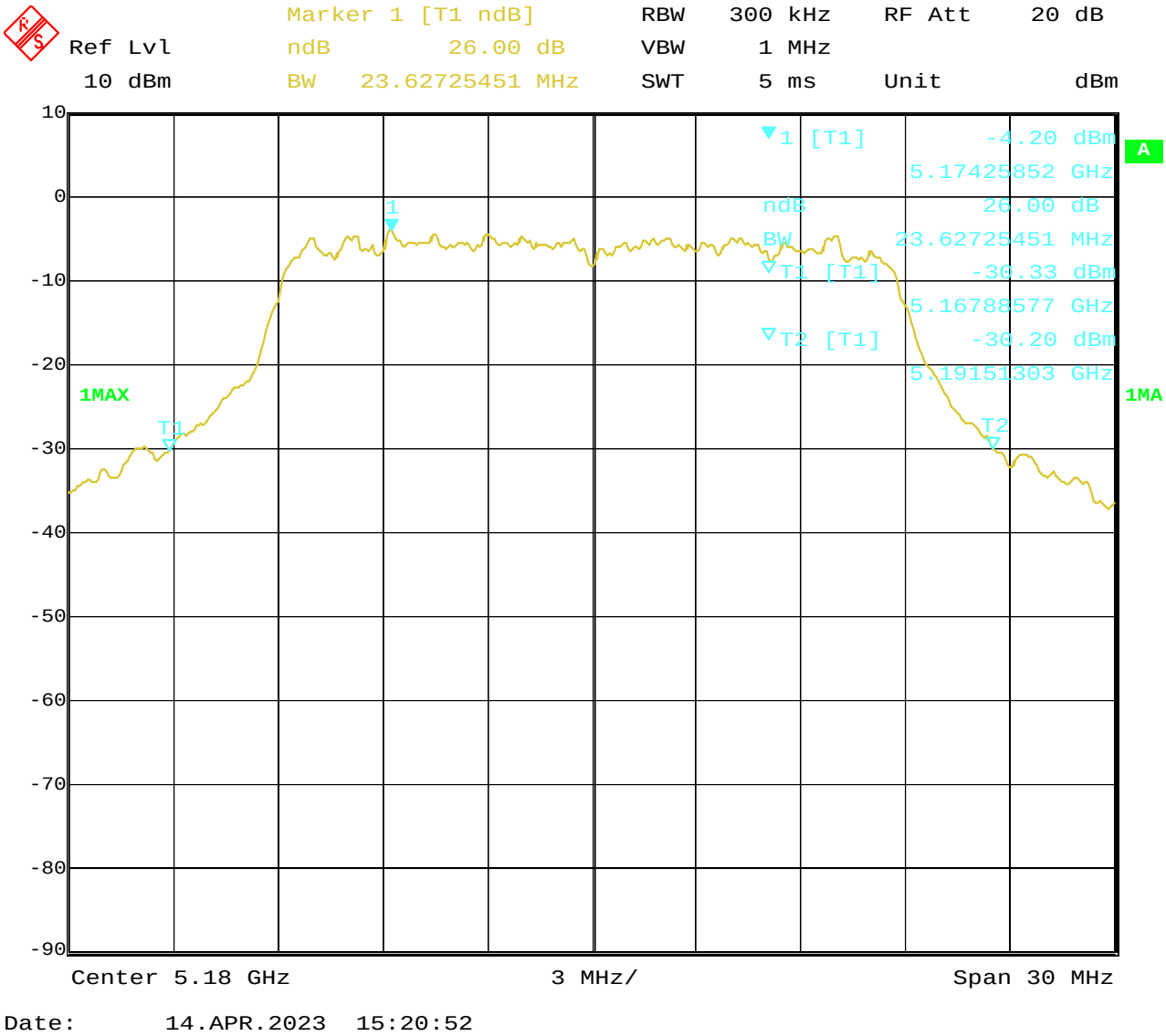
Test Configure

26dB Bandwidth

Channel 36



Date: 14.APR.2023 15:20:52

The report refers only to the sample tested and does not apply to the bulk.
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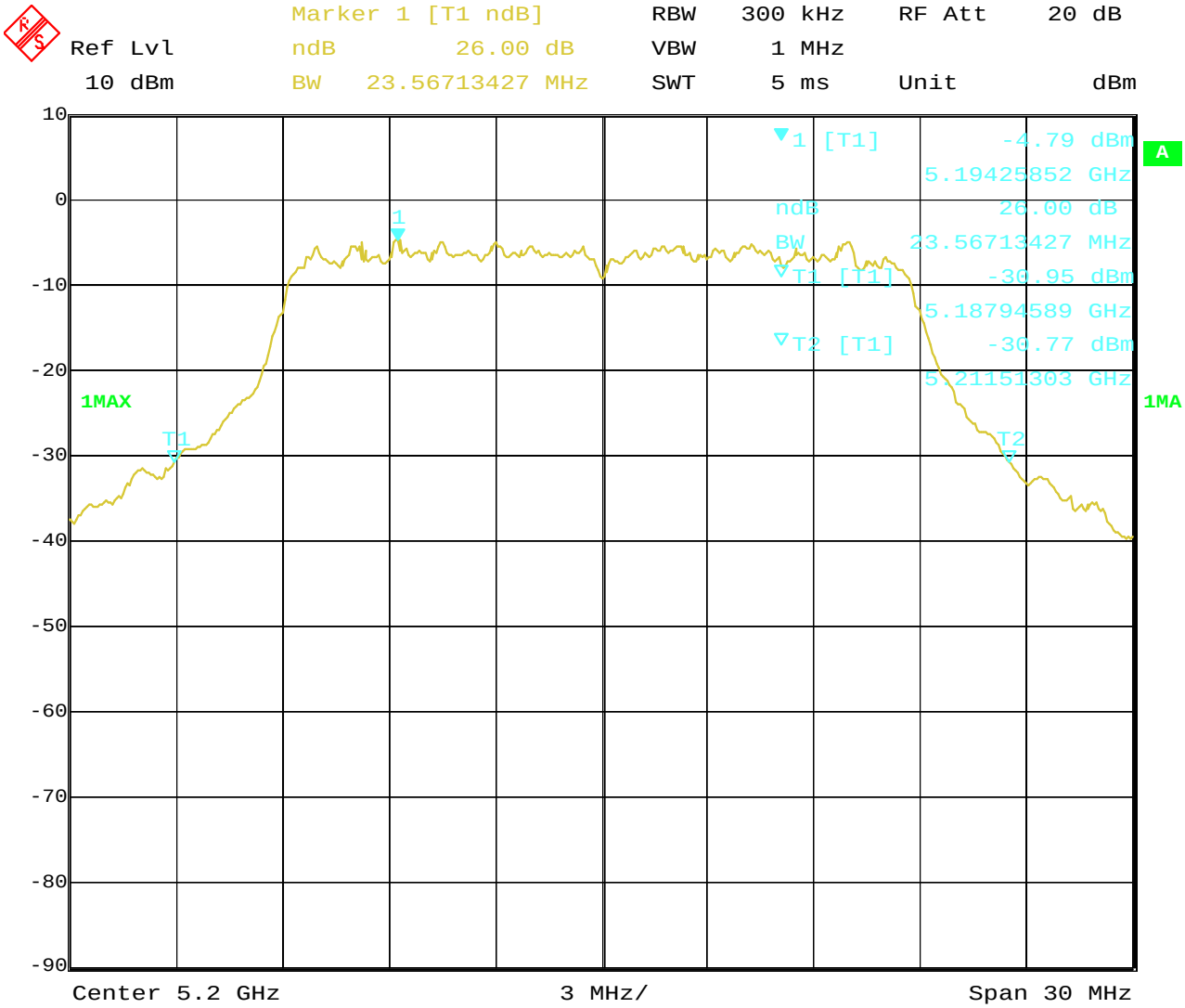
Channel 40



Date: 14.APR.2023 15:15:18

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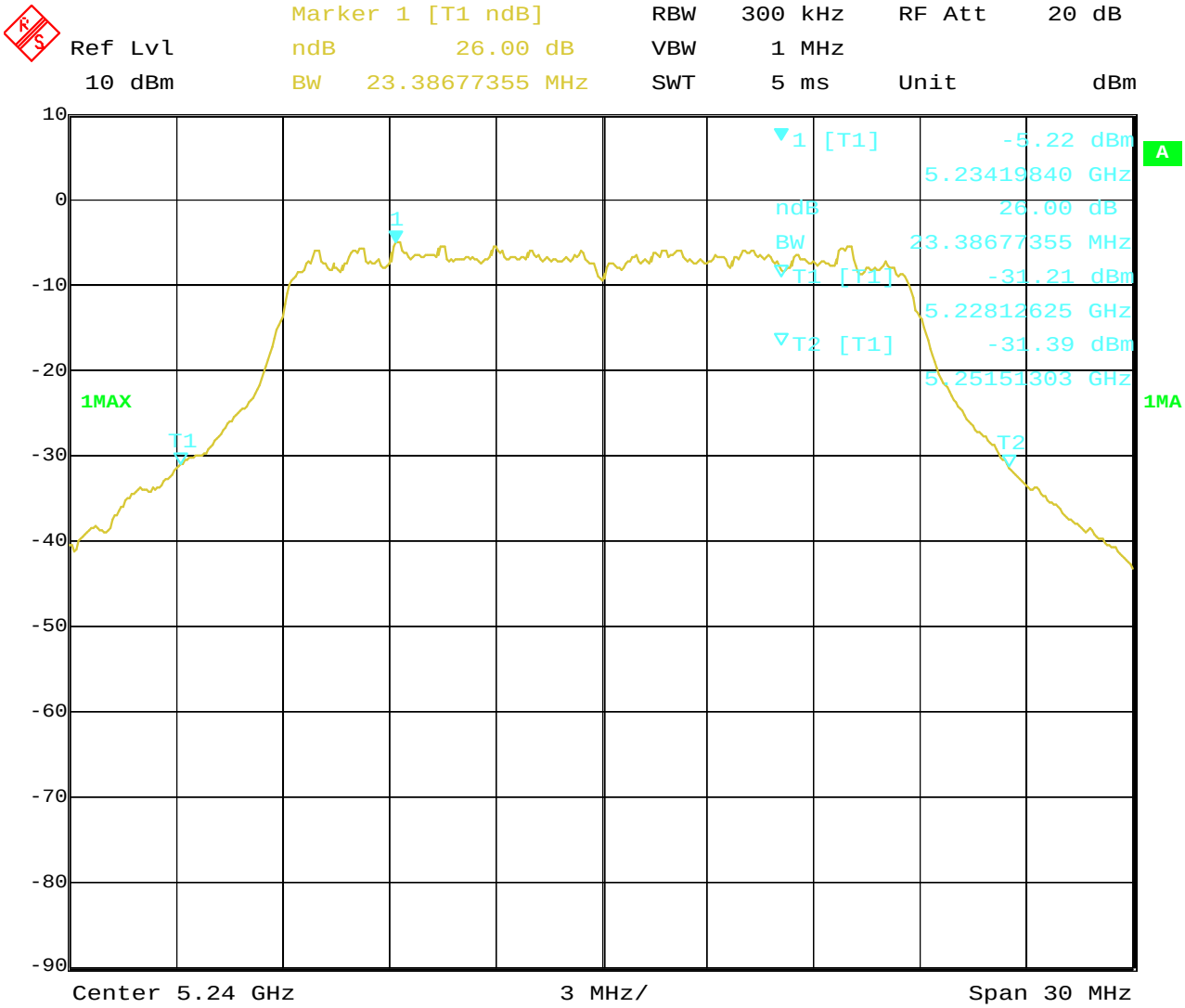
Channel 48



Date: 14.APR.2023 15:12:27

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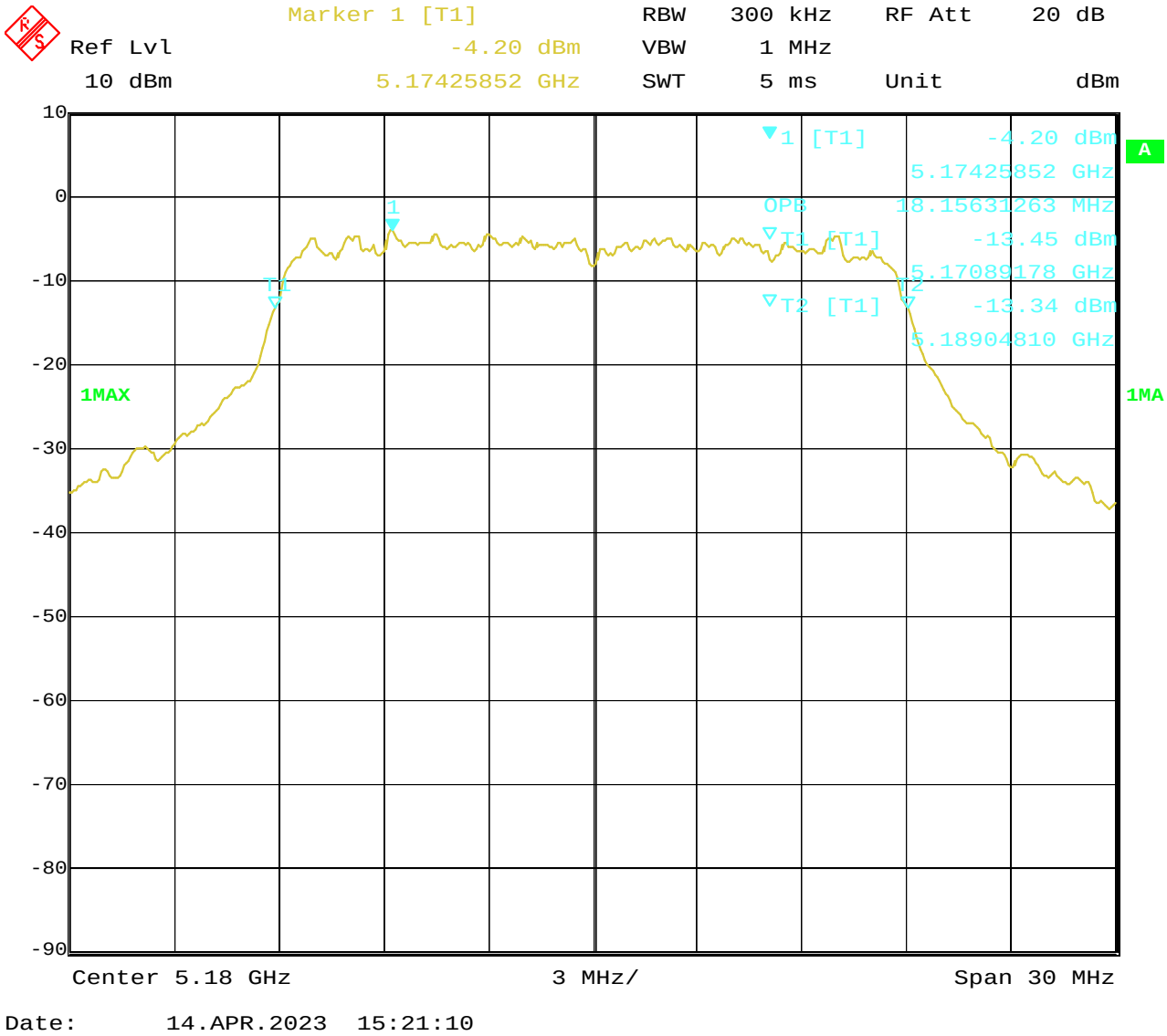
Test Configure

99% Bandwidth

Channel 36



Date: 14.APR.2023 15:21:10

The report refers only to the sample tested and does not apply to the bulk.
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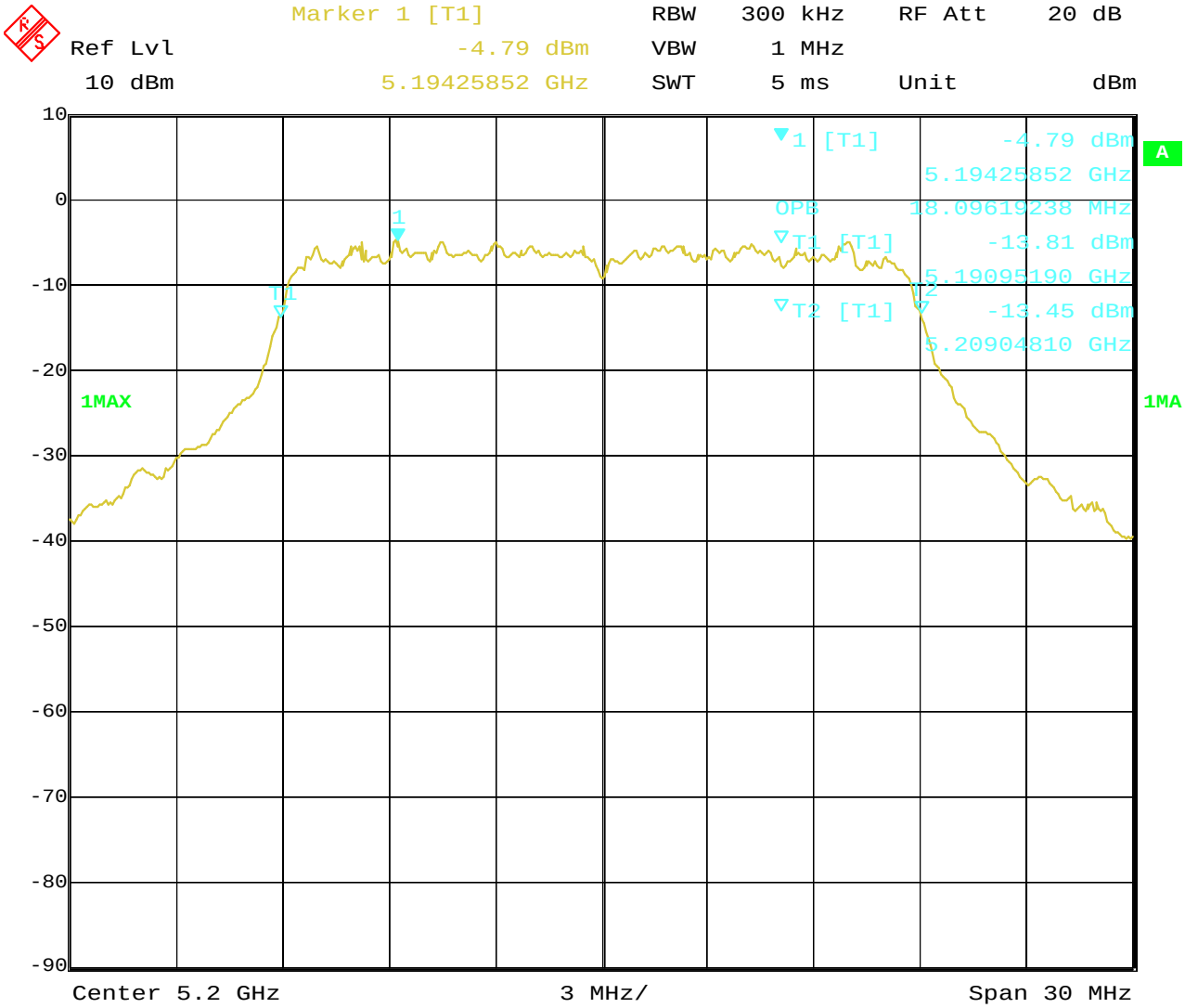
Channel 40



Date: 14.APR.2023 15:15:09

The report refers only to the sample tested and does not apply to the bulk.
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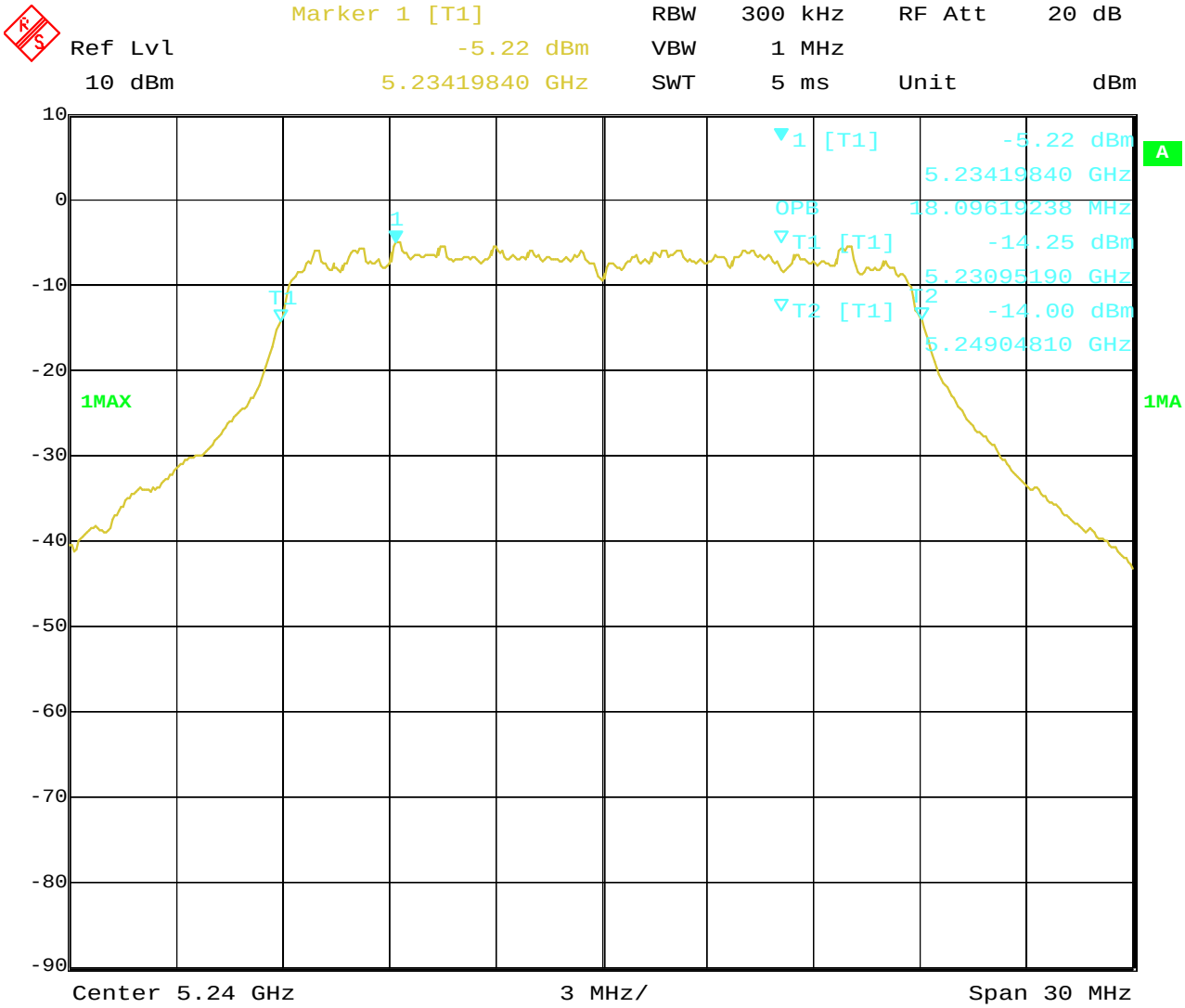
Channel 48



Date: 14.APR.2023 15:12:51

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11n HT20	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
149	5745	6	23.03	--	Pass
153	5765	6	23.21	--	Pass
161	5825	6	28.92	--	Pass
6dB Bandwidth					
149	5745	6	17.27	0.5	Pass
153	5765	6	17.31	0.5	Pass
161	5825	6	17.01	0.5	Pass
99% Bandwidth					
149	5745	6	18.04	--	Pass
153	5765	6	18.04	--	Pass
161	5825	6	18.46	--	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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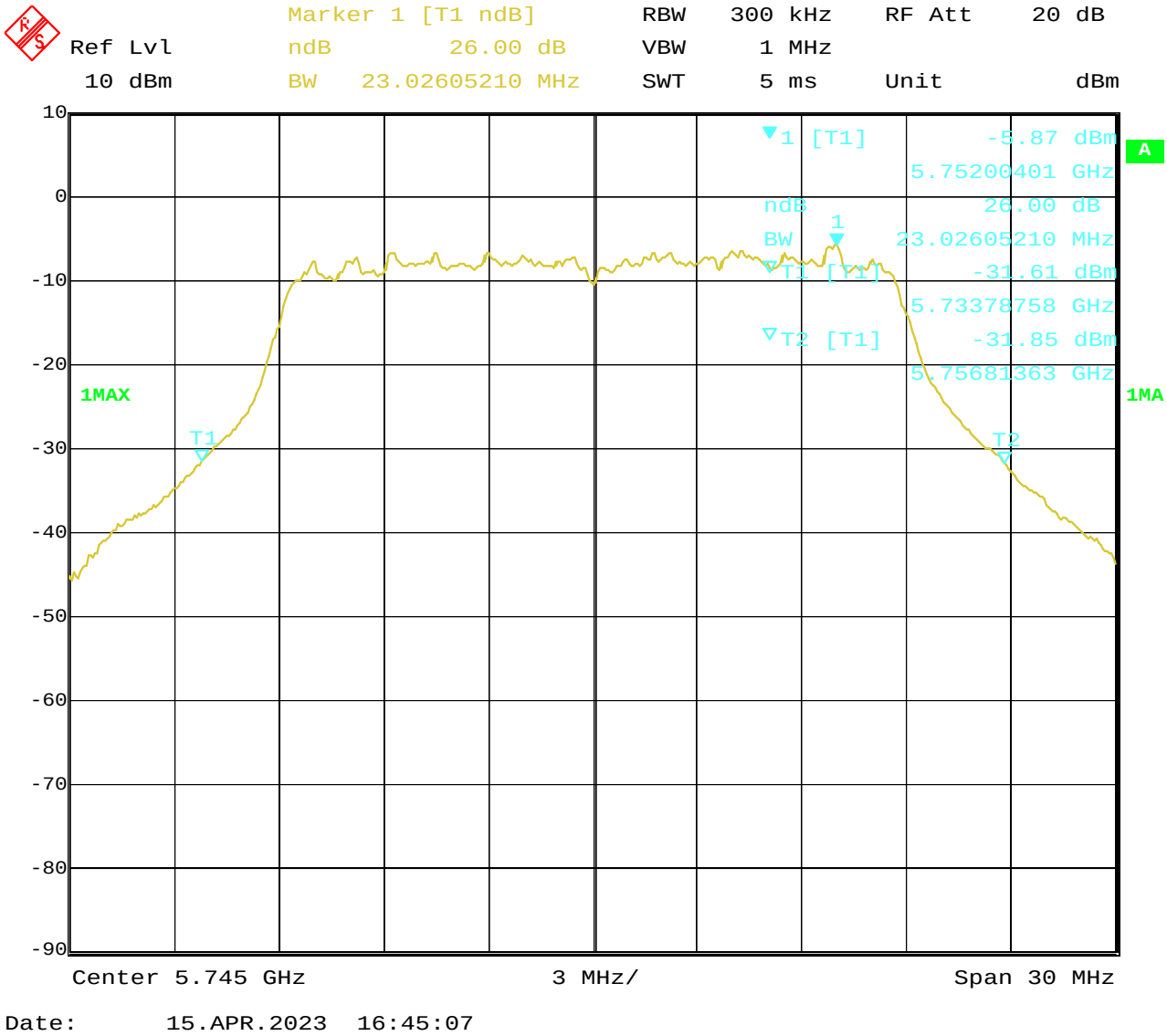
Test Configure

26dB Bandwidth

Channel 149



Date: 15.APR.2023 16:45:07

The report refers only to the sample tested and does not apply to the bulk.
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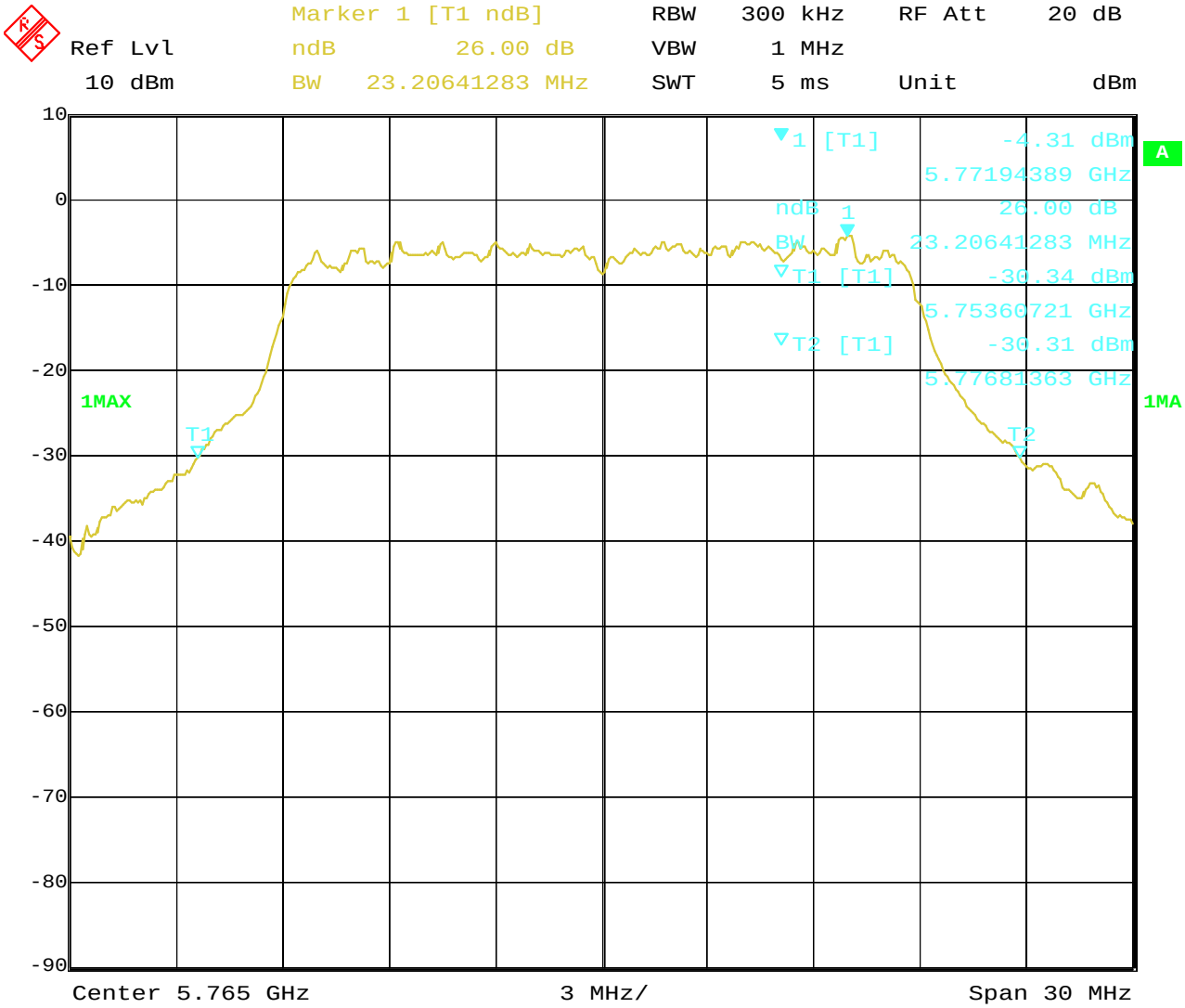
Channel 153



Date: 15.APR.2023 16:50:21

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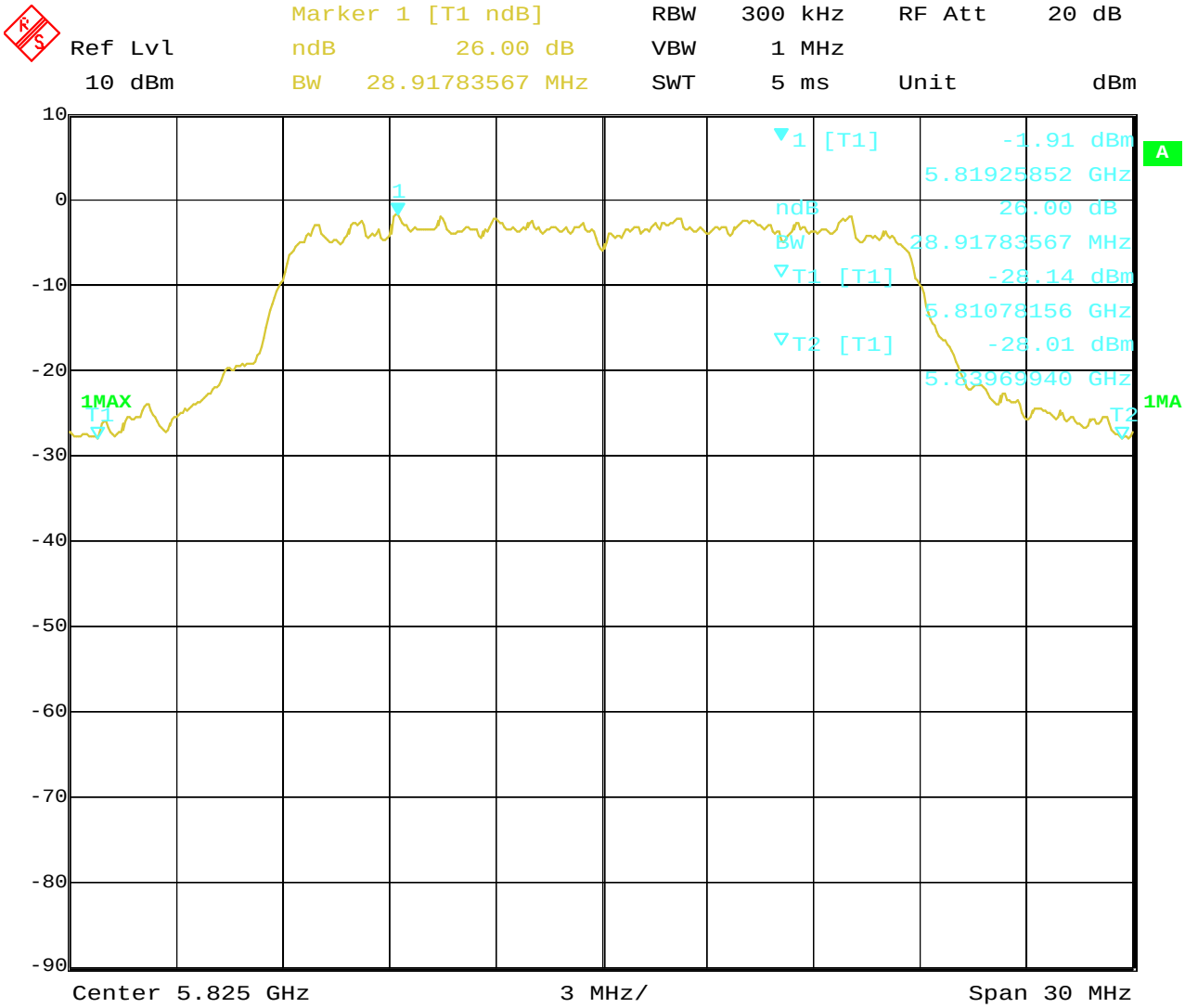
Channel 161



Date: 15.APR.2023 16:42:47

The report refers only to the sample tested and does not apply to the bulk.
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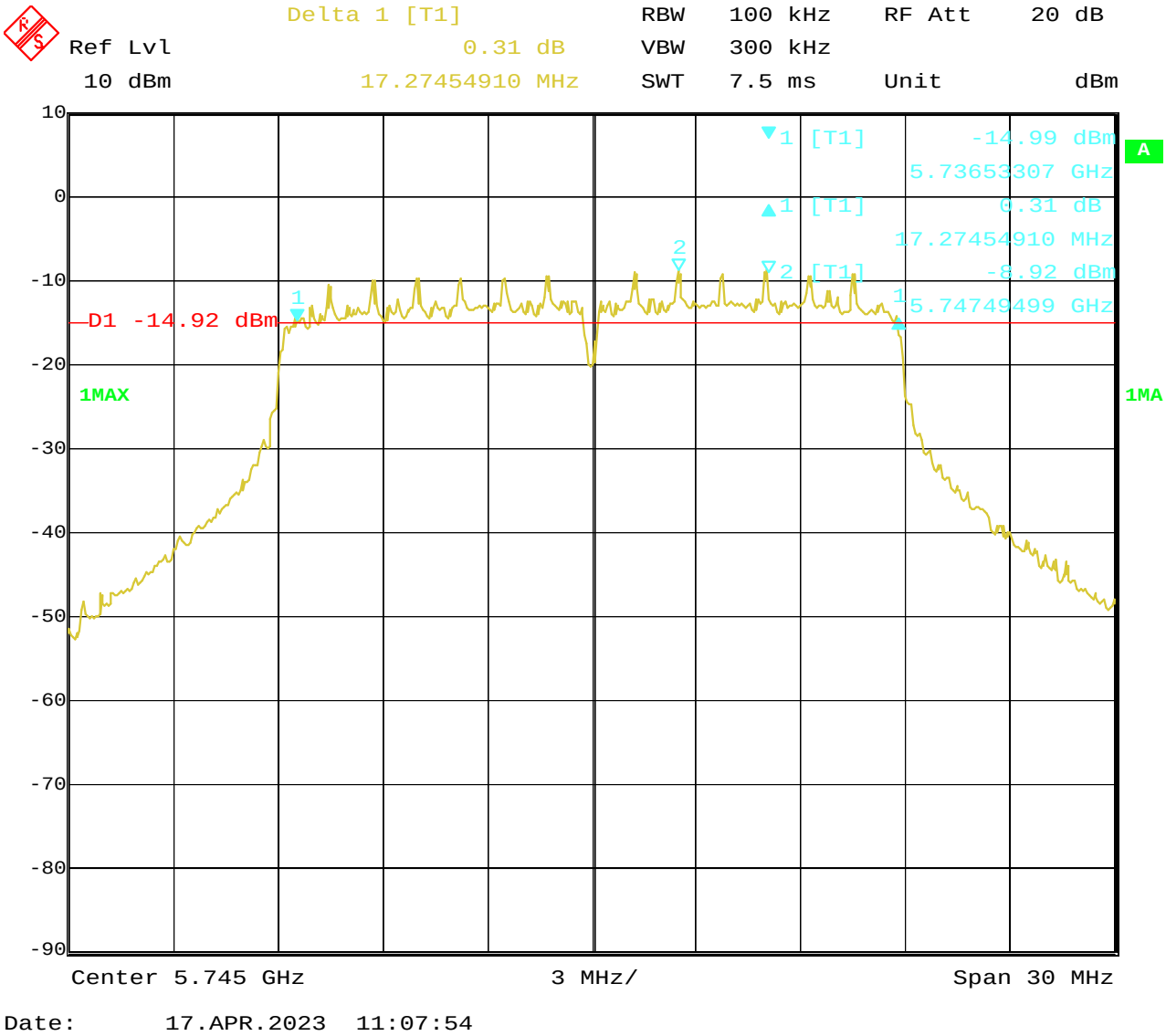
Test Configure

6dB Bandwidth

Channel 149



Date: 17.APR.2023 11:07:54

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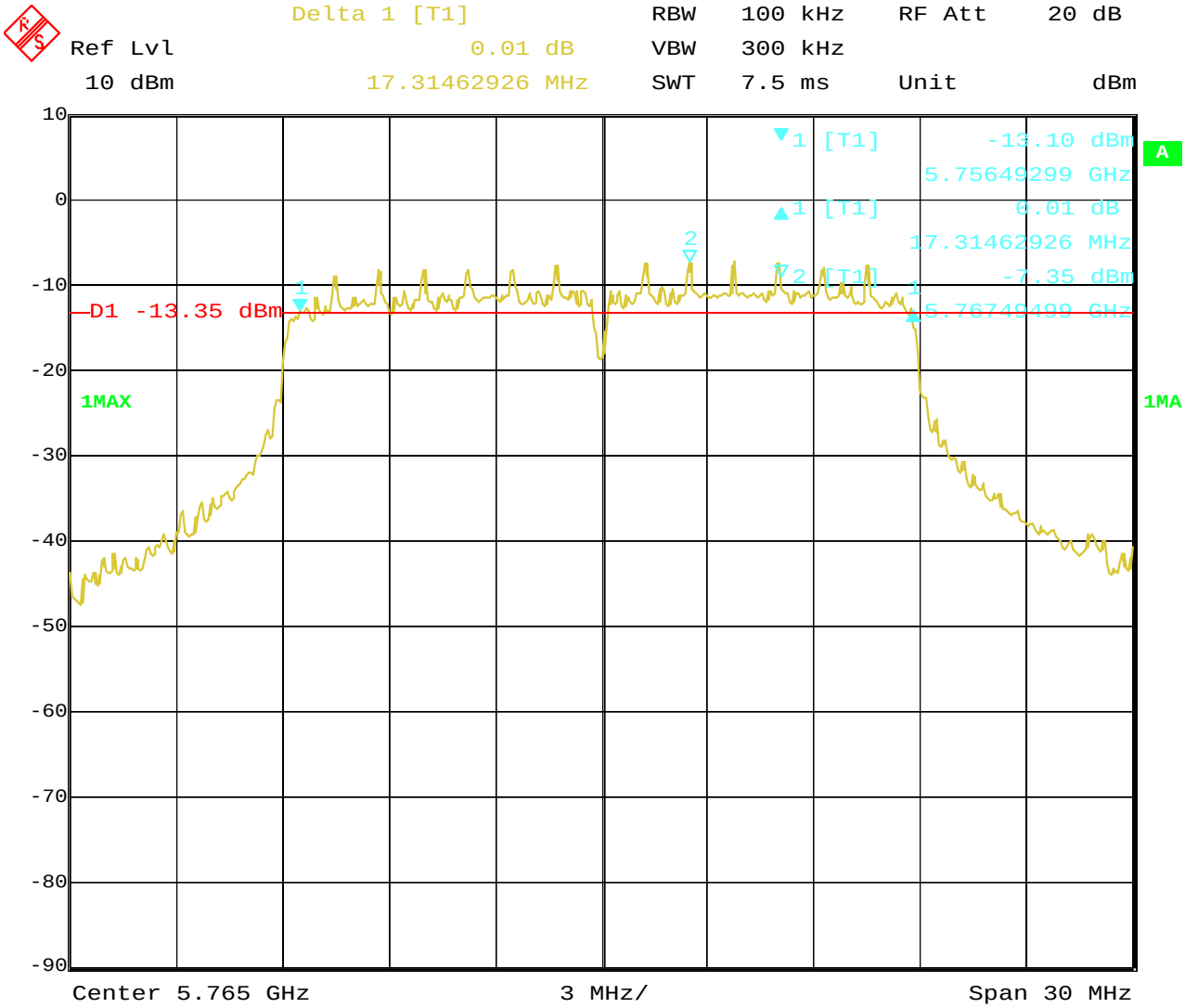
Channel 153



Date: 17.APR.2023 11:05:04

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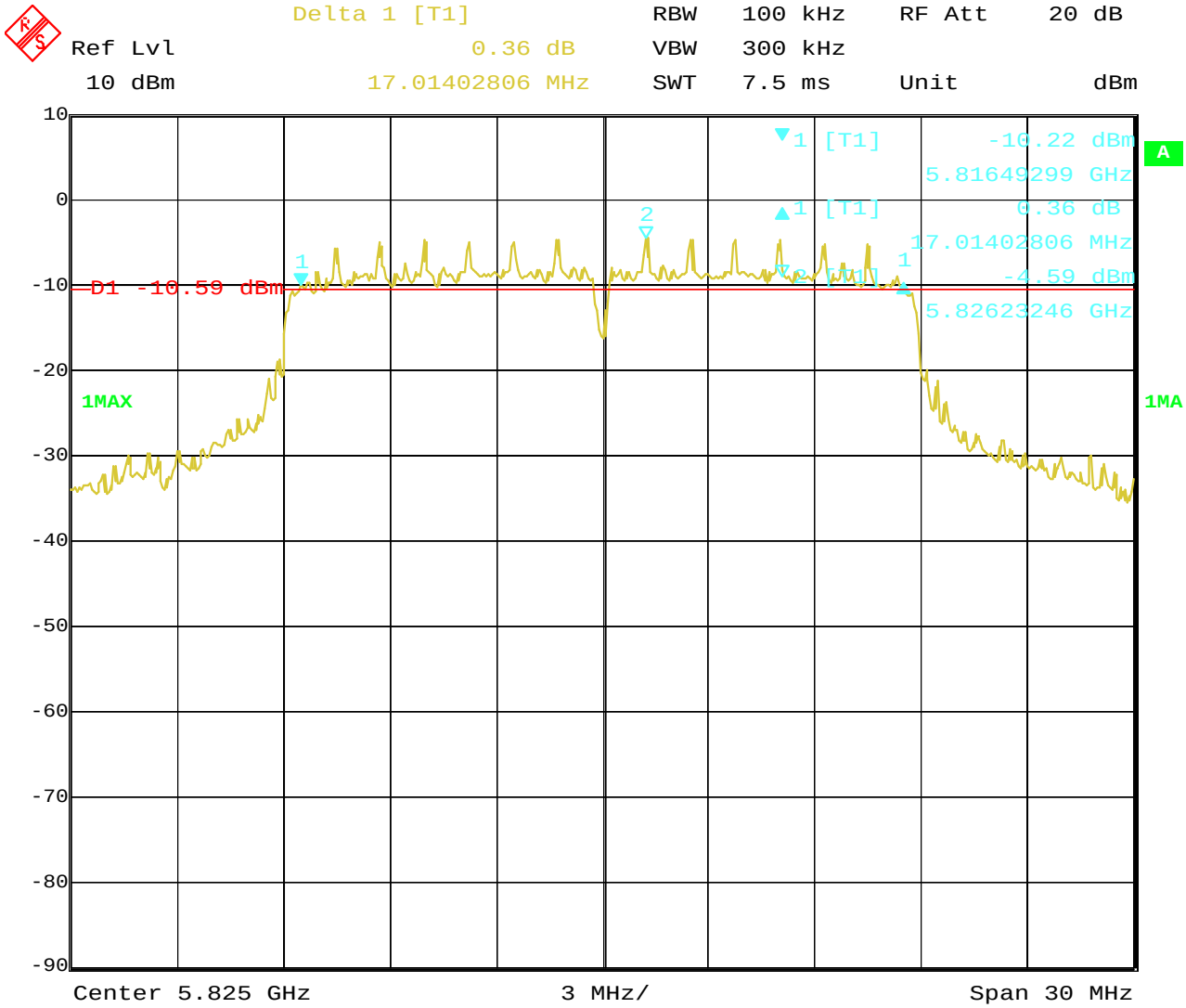
Channel 161



Date: 17.APR.2023 10:58:40

The report refers only to the sample tested and does not apply to the bulk.
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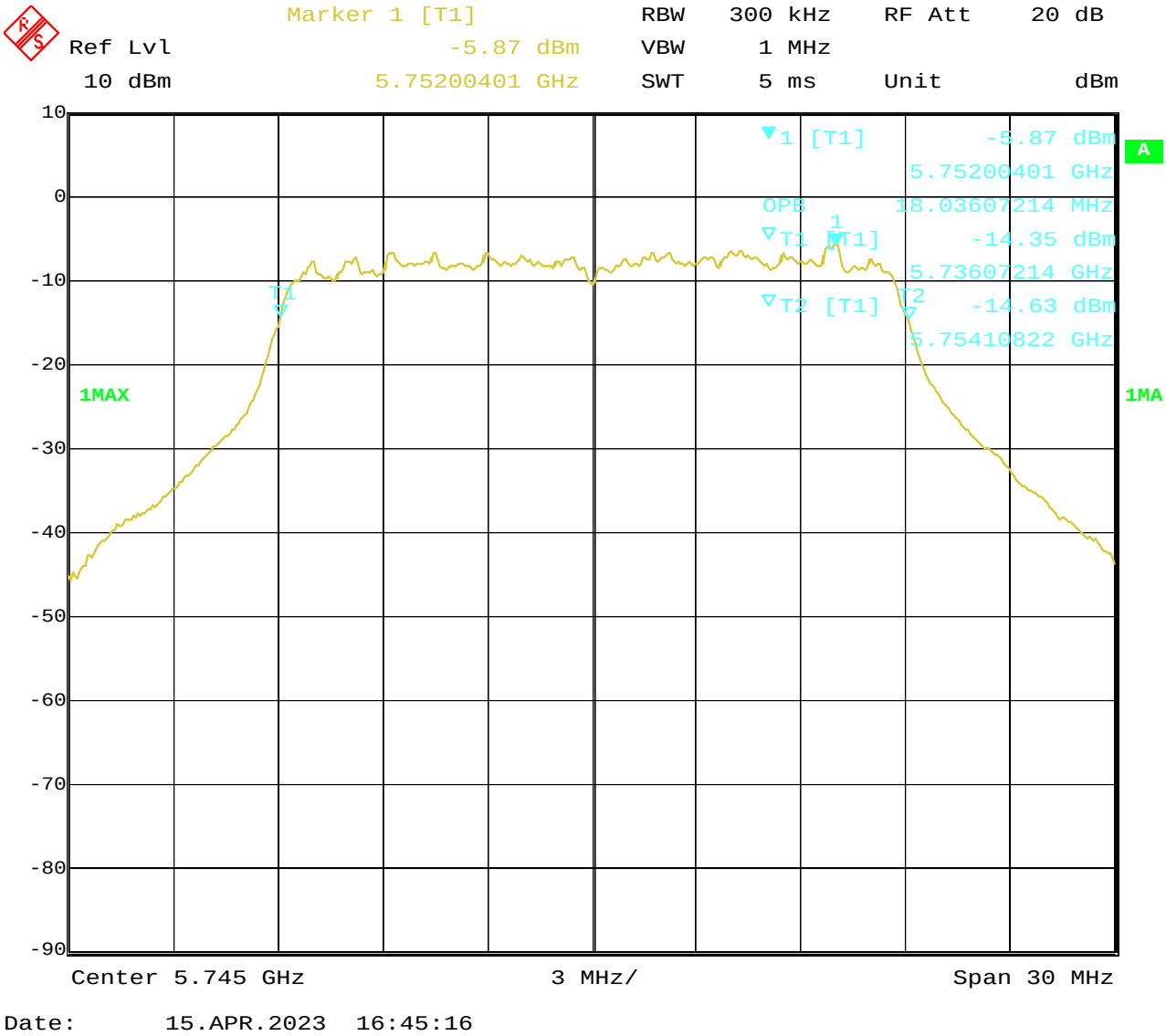
Test Configure

99% Bandwidth

Channel 149



Date: 15.APR.2023 16:45:16

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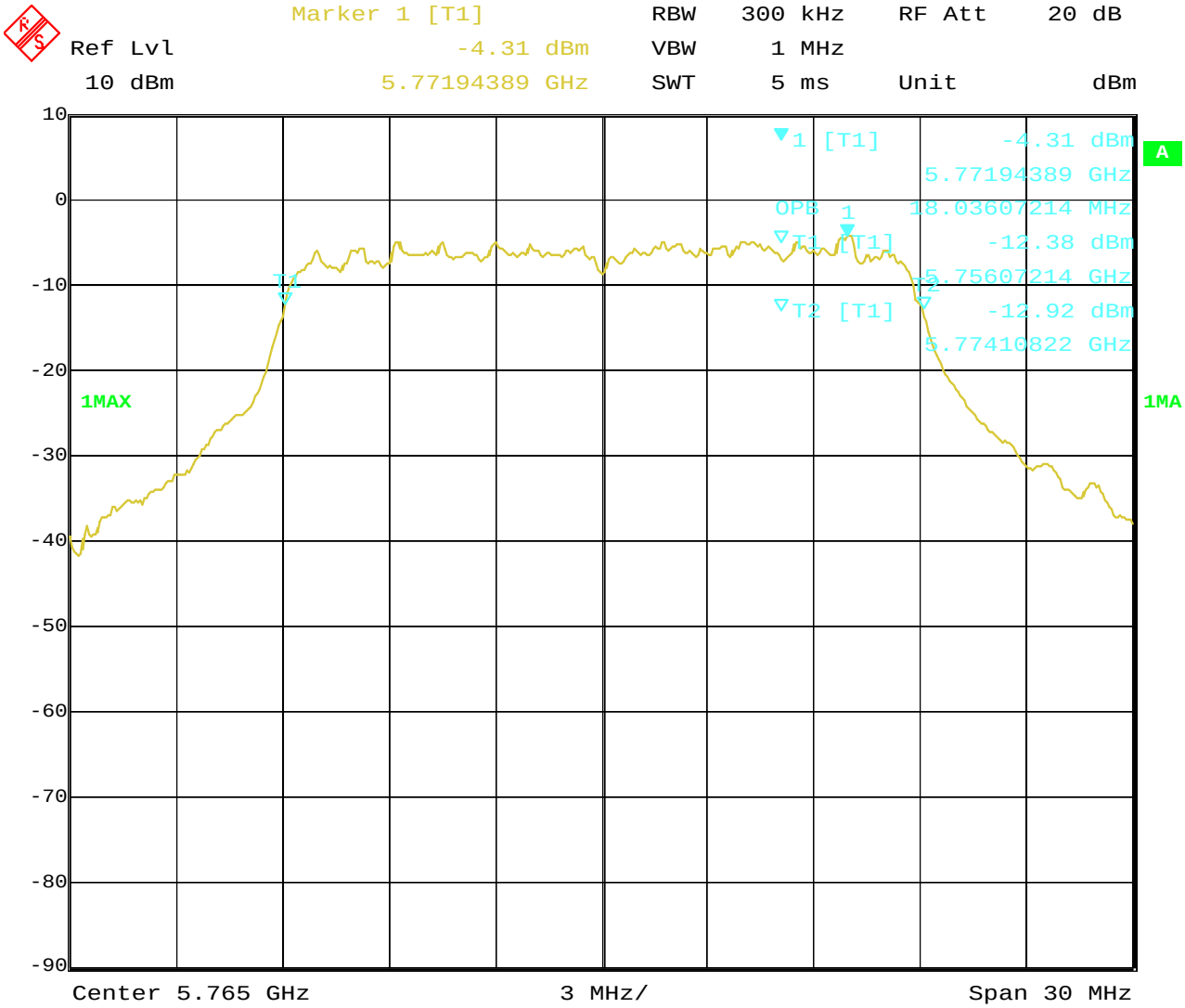
Channel 153



Date: 15.APR.2023 16:50:09

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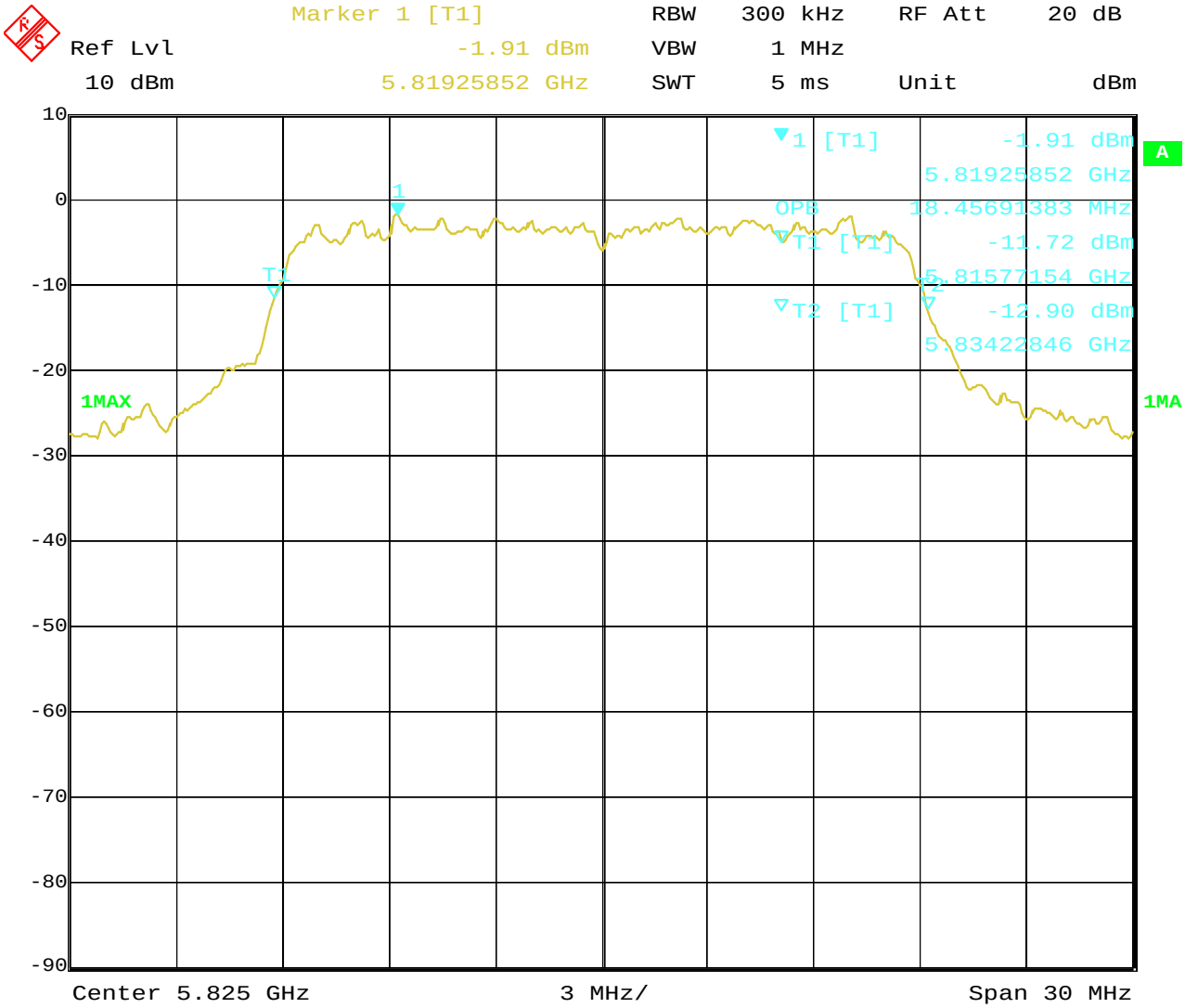
Channel 161



Date: 15.APR.2023 16:42:31

The report refers only to the sample tested and does not apply to the bulk.
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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11n HT40	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
38	5190	mcs0	45.86	--	Pass
46	5230	mcs0	45.69	--	Pass
99% Bandwidth					
38	5190	mcs0	37.39	--	Pass
46	5230	mcs0	37.39	--	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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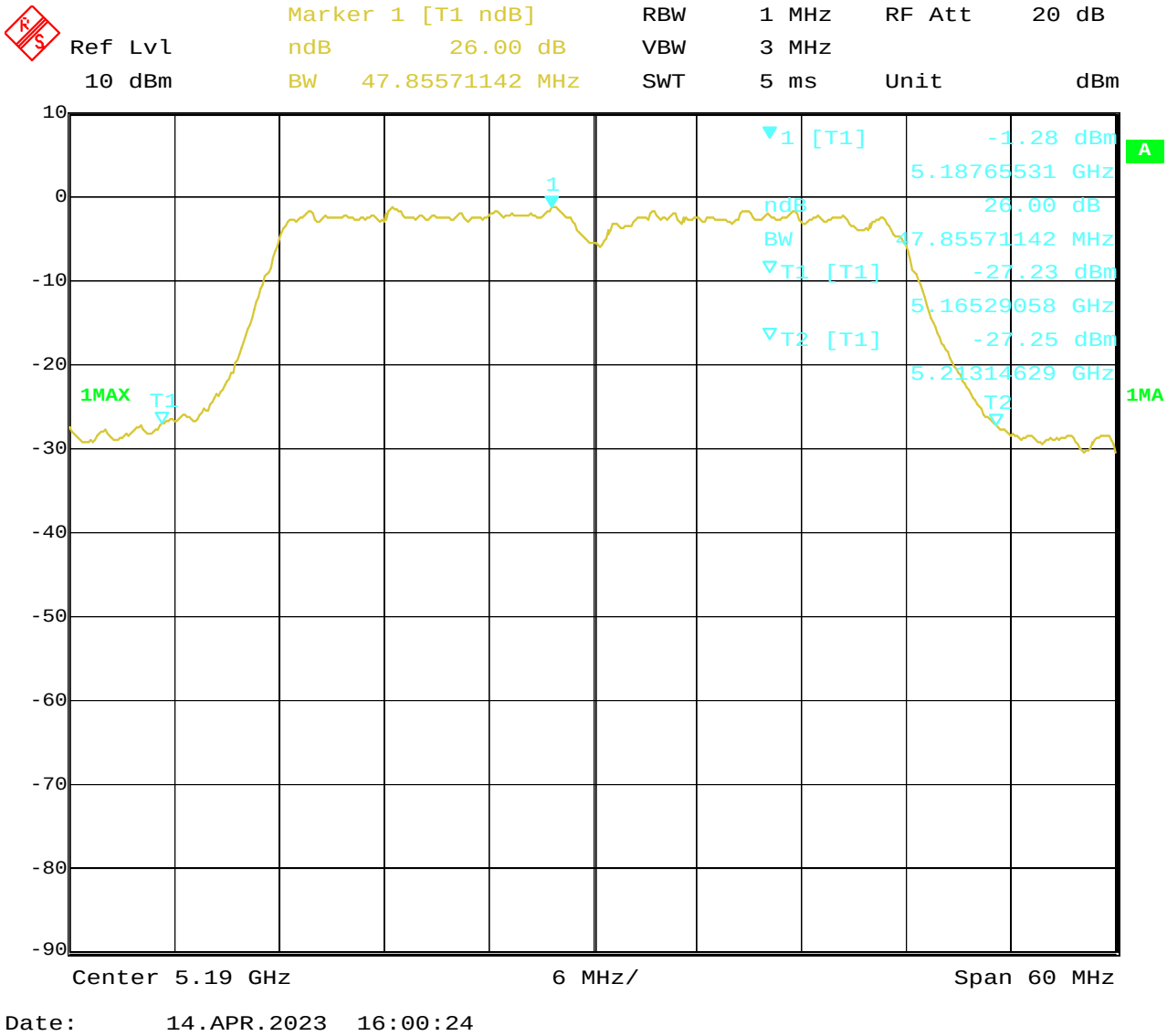
Test Configure

26dB Bandwidth

Channel 38



Date: 14.APR.2023 16:00:24

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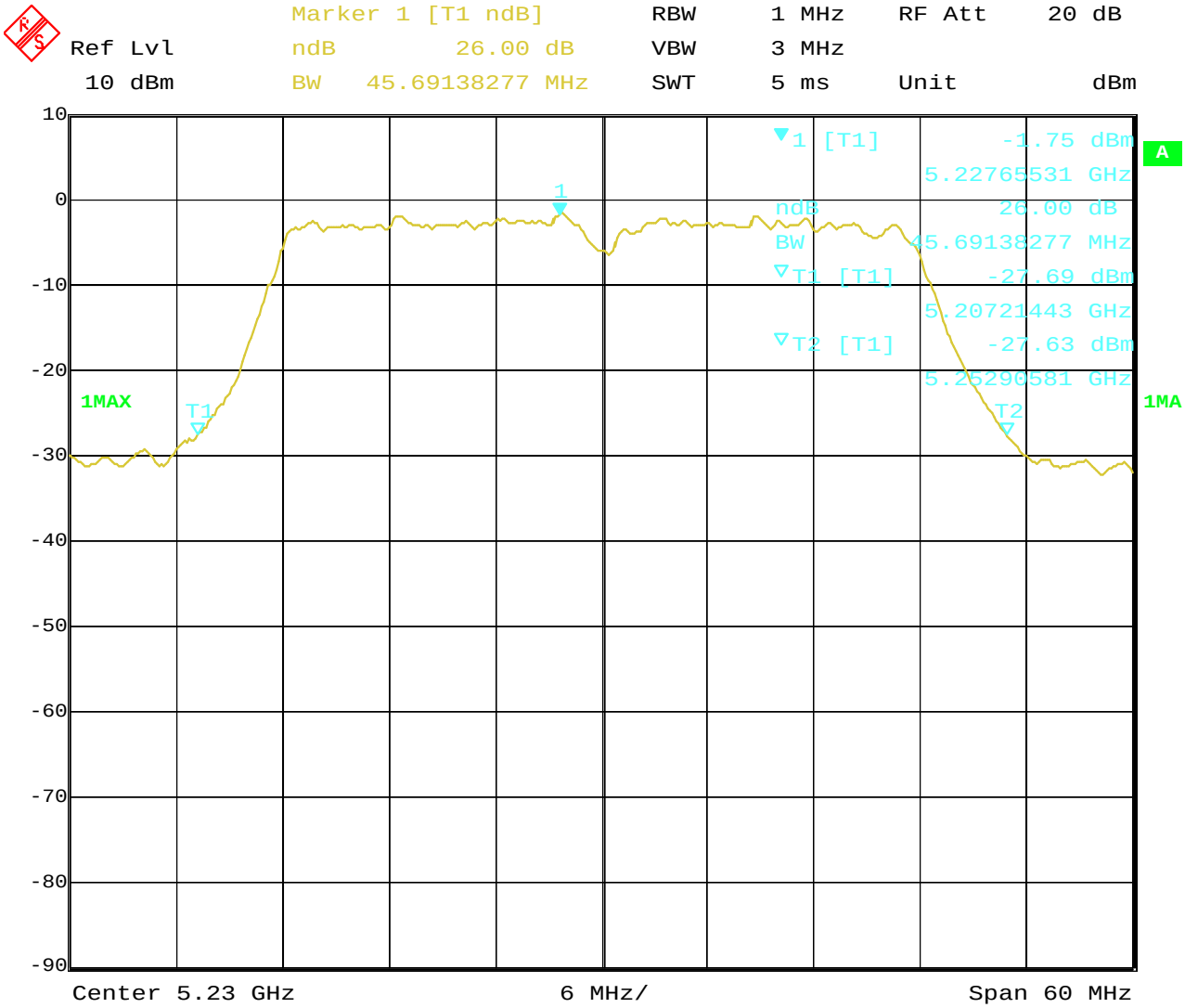
Channel 46



Date: 14.APR.2023 16:08:06

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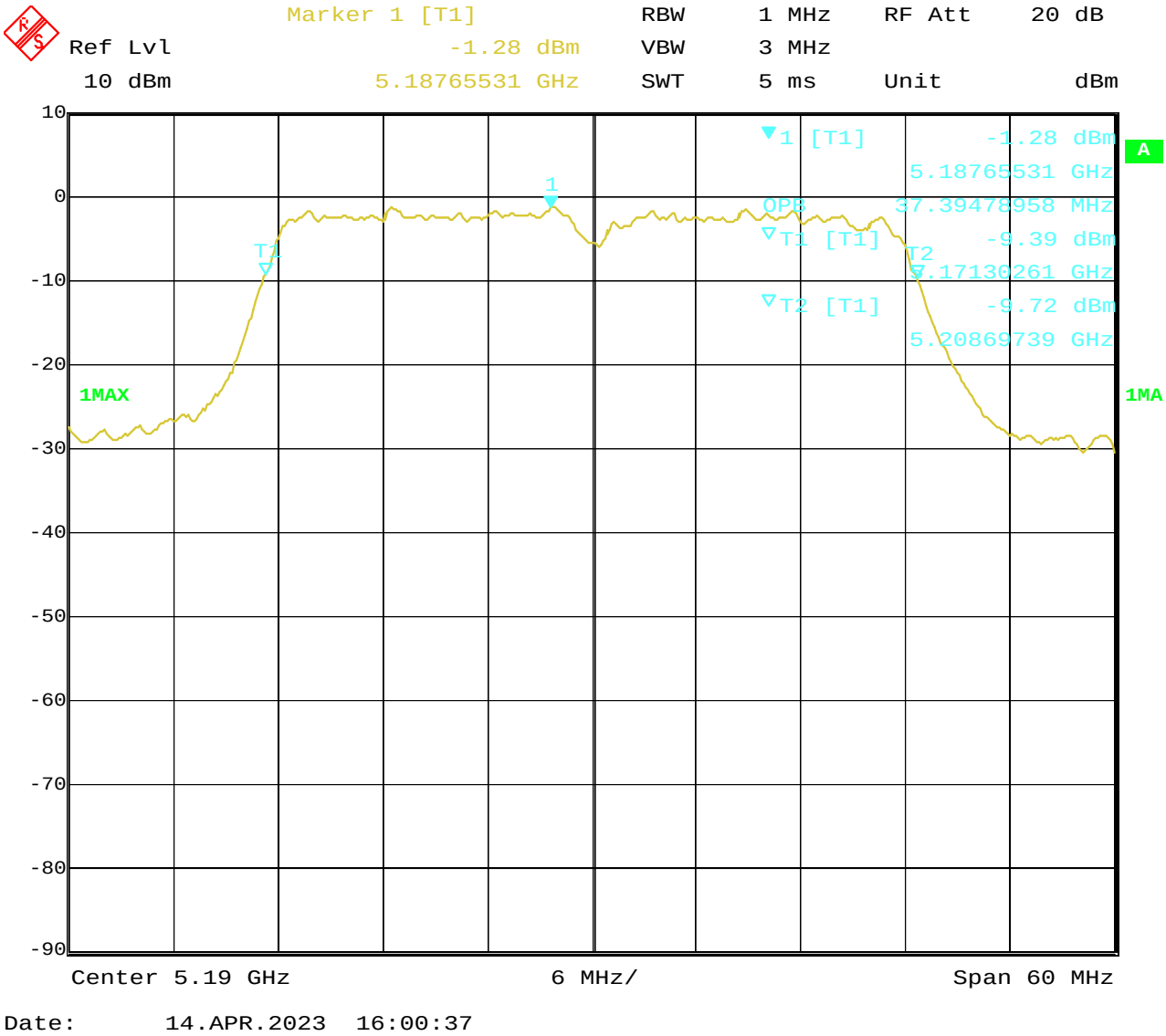
Test Configure

99% Bandwidth

Channel 38



Date: 14.APR.2023 16:00:37

The report refers only to the sample tested and does not apply to the bulk.
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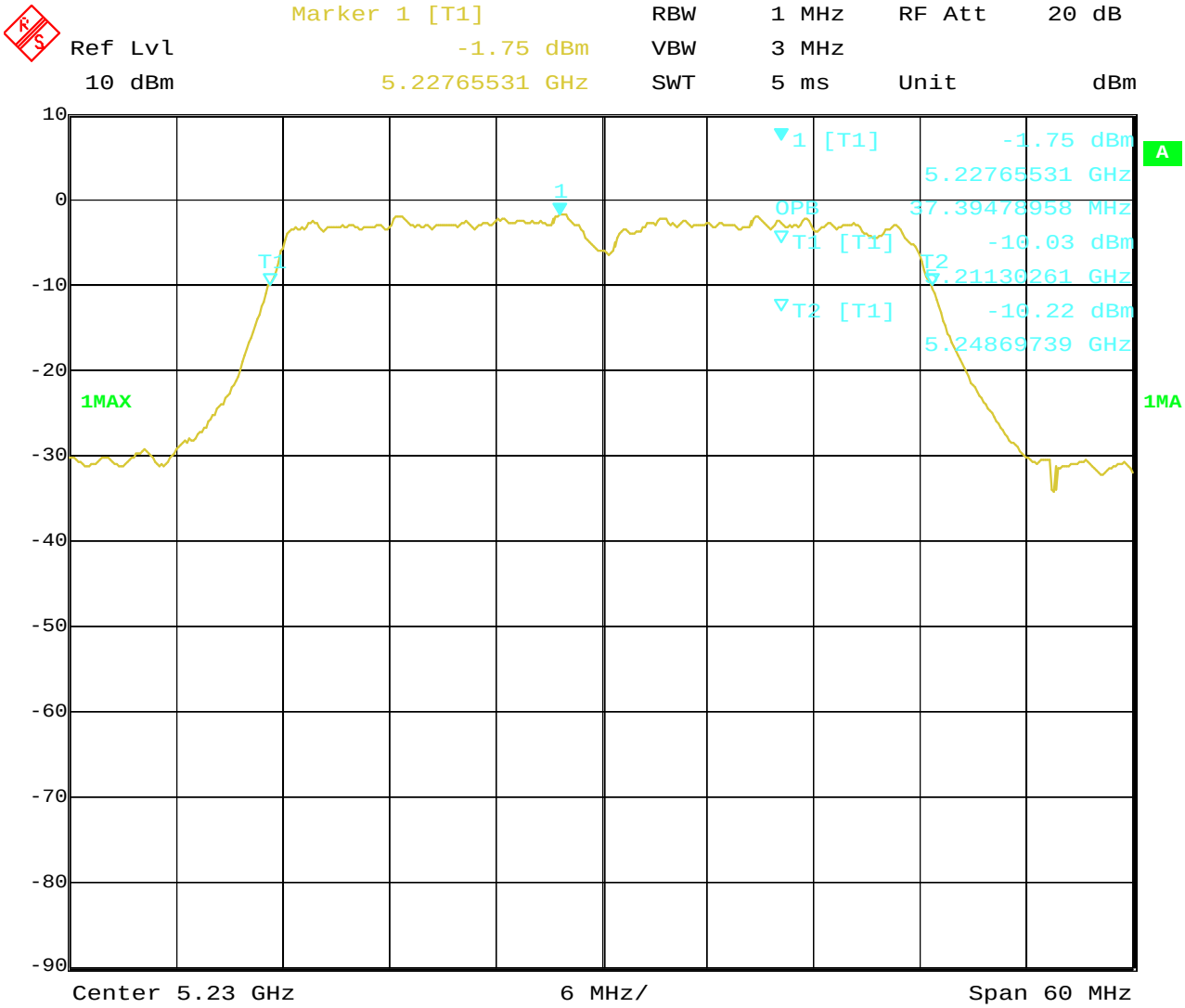
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

Channel 46



Date: 14.APR.2023 16:07:39

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11n HT40	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
151	5755	mcs0	45.21	--	Pass
159	5795	mcs0	49.30	--	Pass
6dB Bandwidth					
151	5755	mcs0	35.87	0.5	Pass
159	5795	mcs0	35.87	0.5	Pass
99% Bandwidth					
151	5755	mcs0	37.39	--	Pass
159	5795	mcs0	37.64	--	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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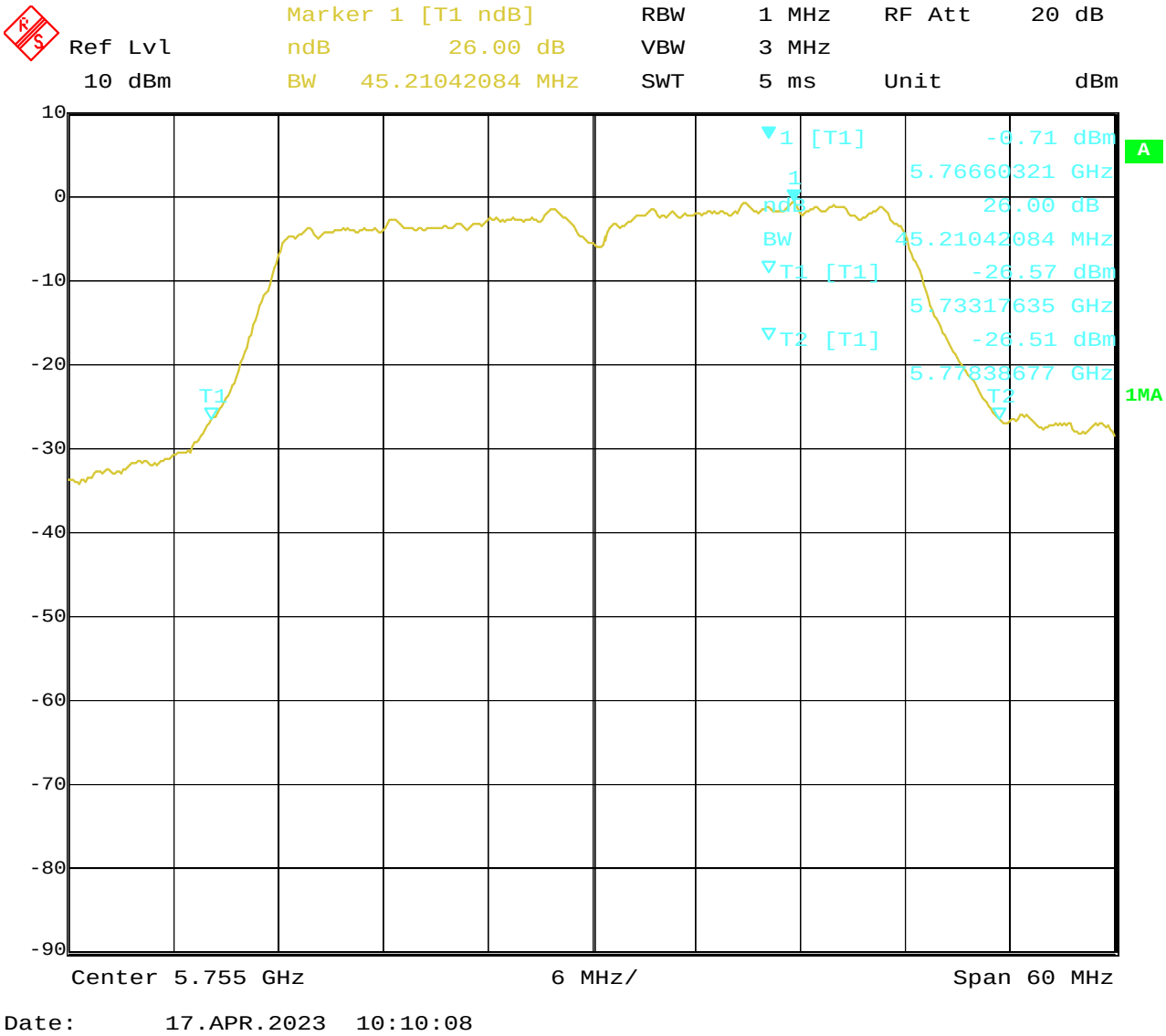
Test Configure

26dB Bandwidth

Channel 151



Date: 17.APR.2023 10:10:08

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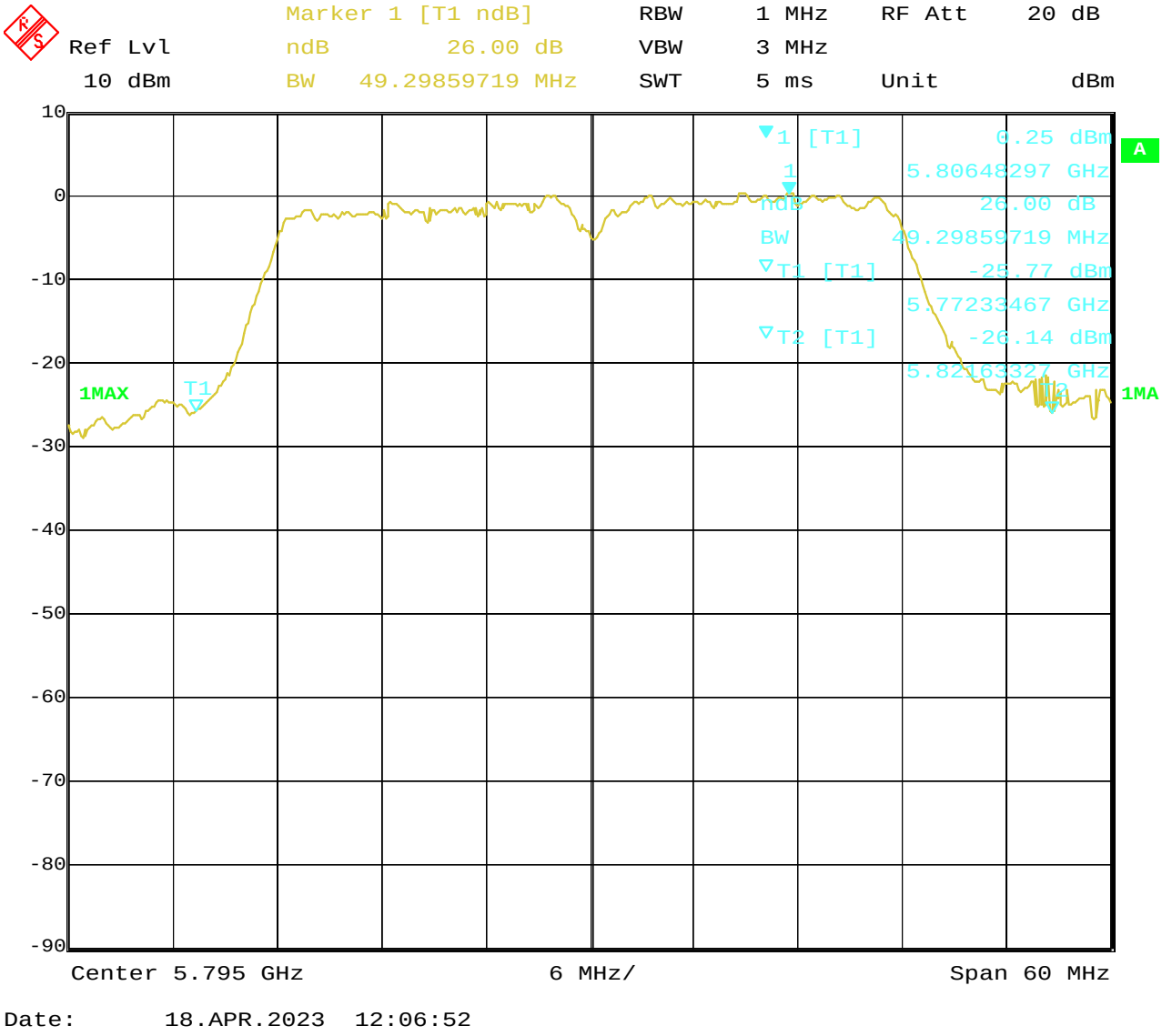
Channel 159



Date: 18.APR.2023 12:06:52

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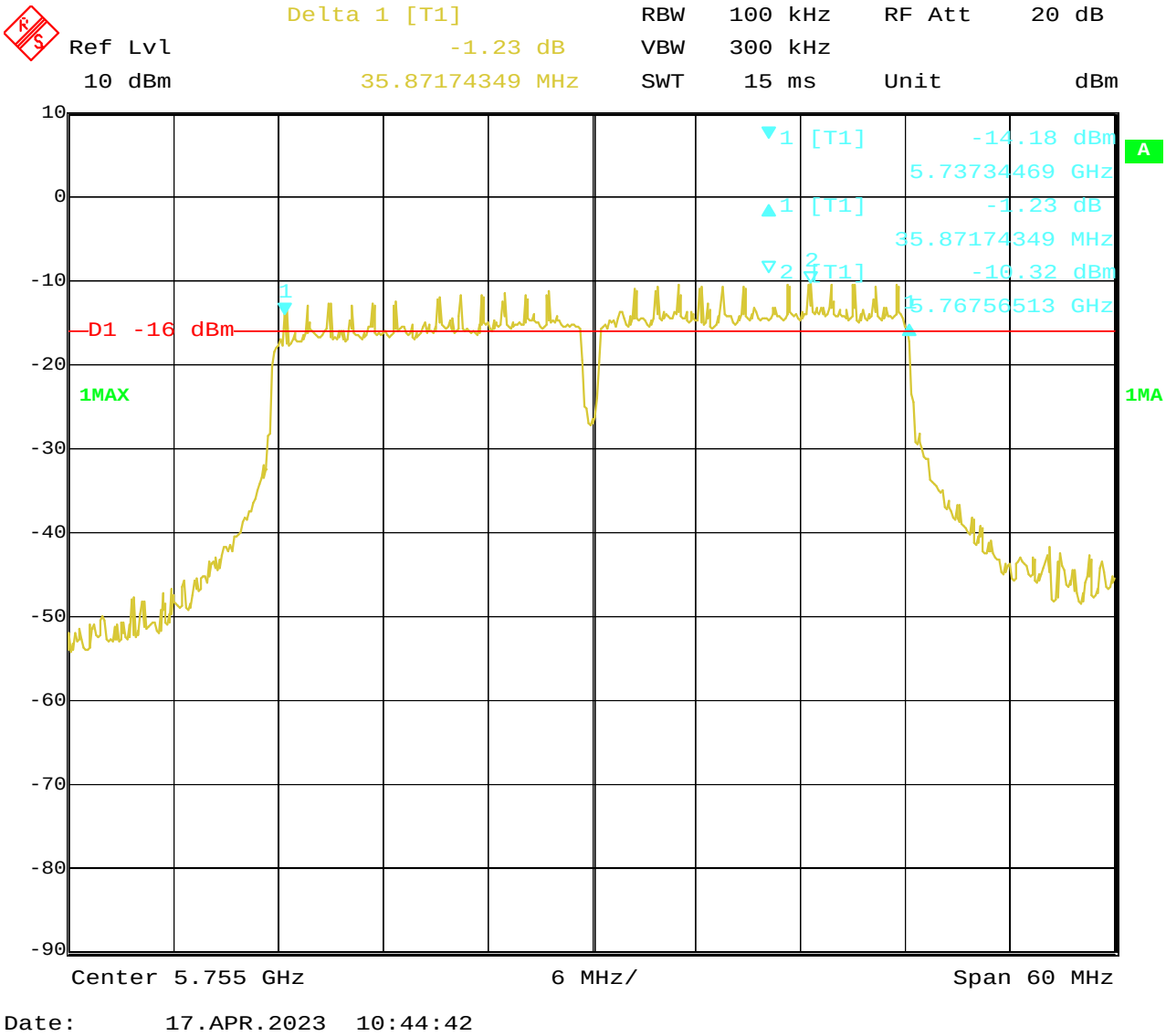
Test Configure

6dB Bandwidth

Channel 151



Date: 17.APR.2023 10:44:42

The report refers only to the sample tested and does not apply to the bulk.
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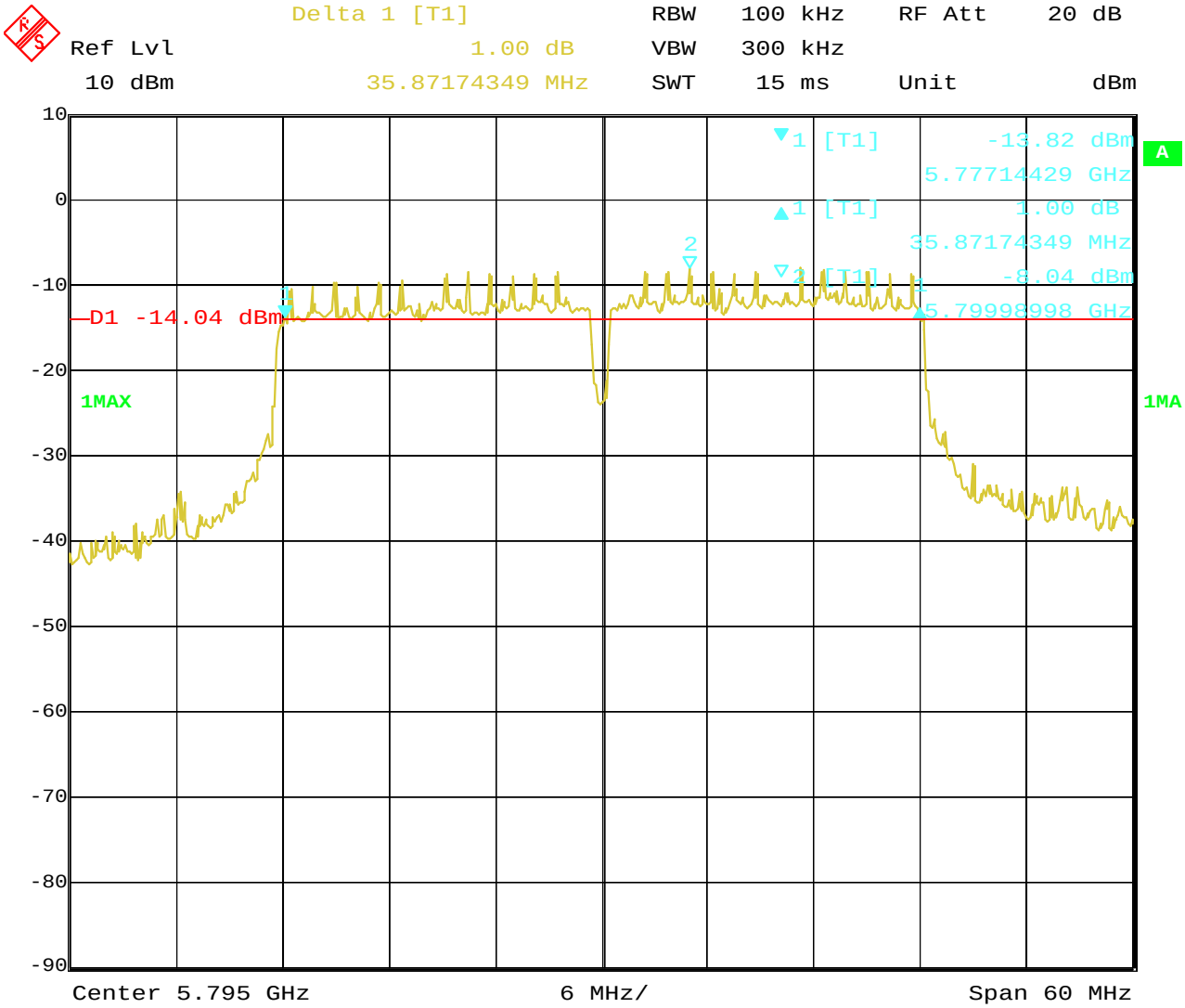
Channel 159



Date: 17.APR.2023 10:38:29

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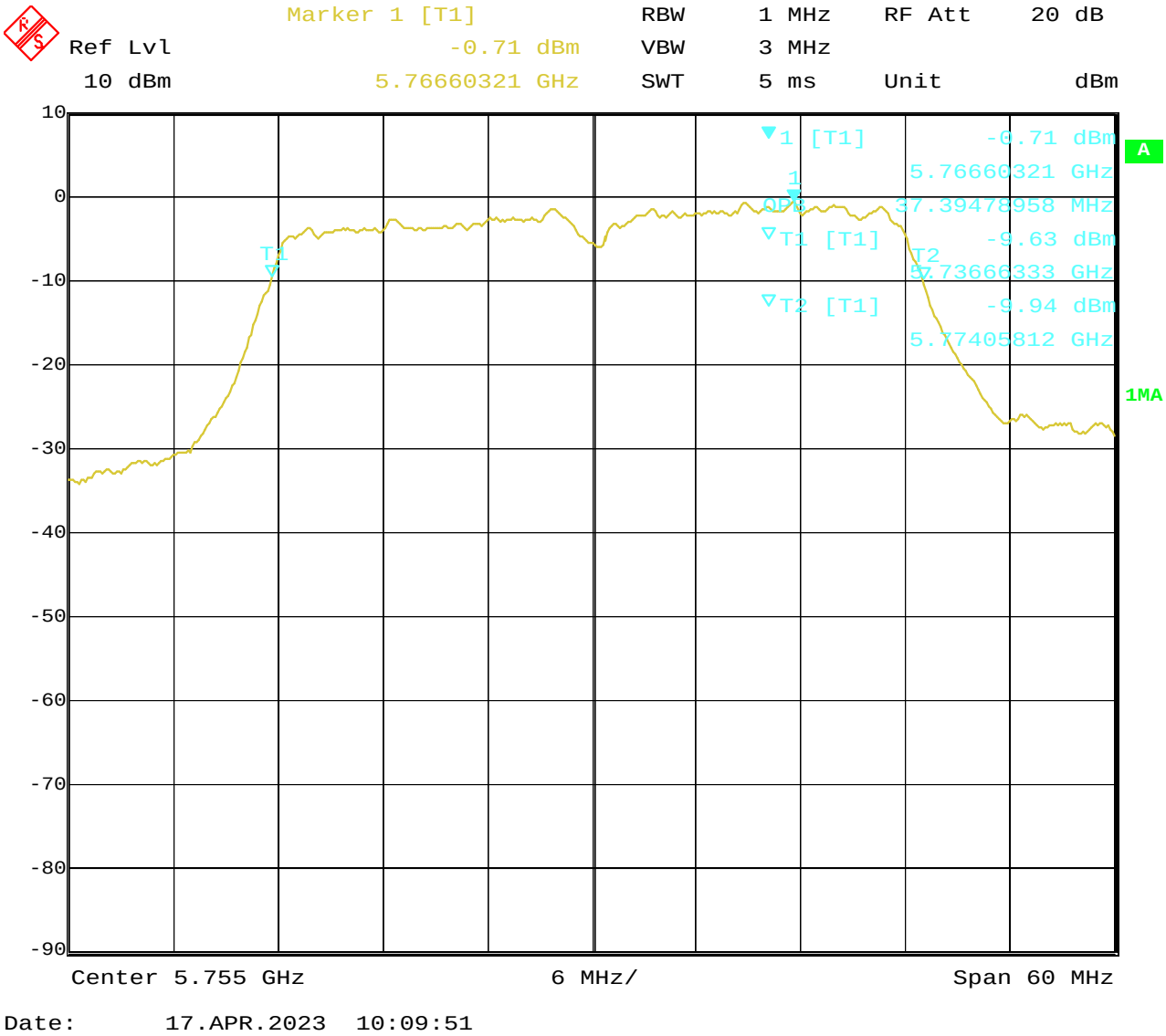
Test Configure

99% Bandwidth

Channel 151



Date: 17.APR.2023 10:09:51

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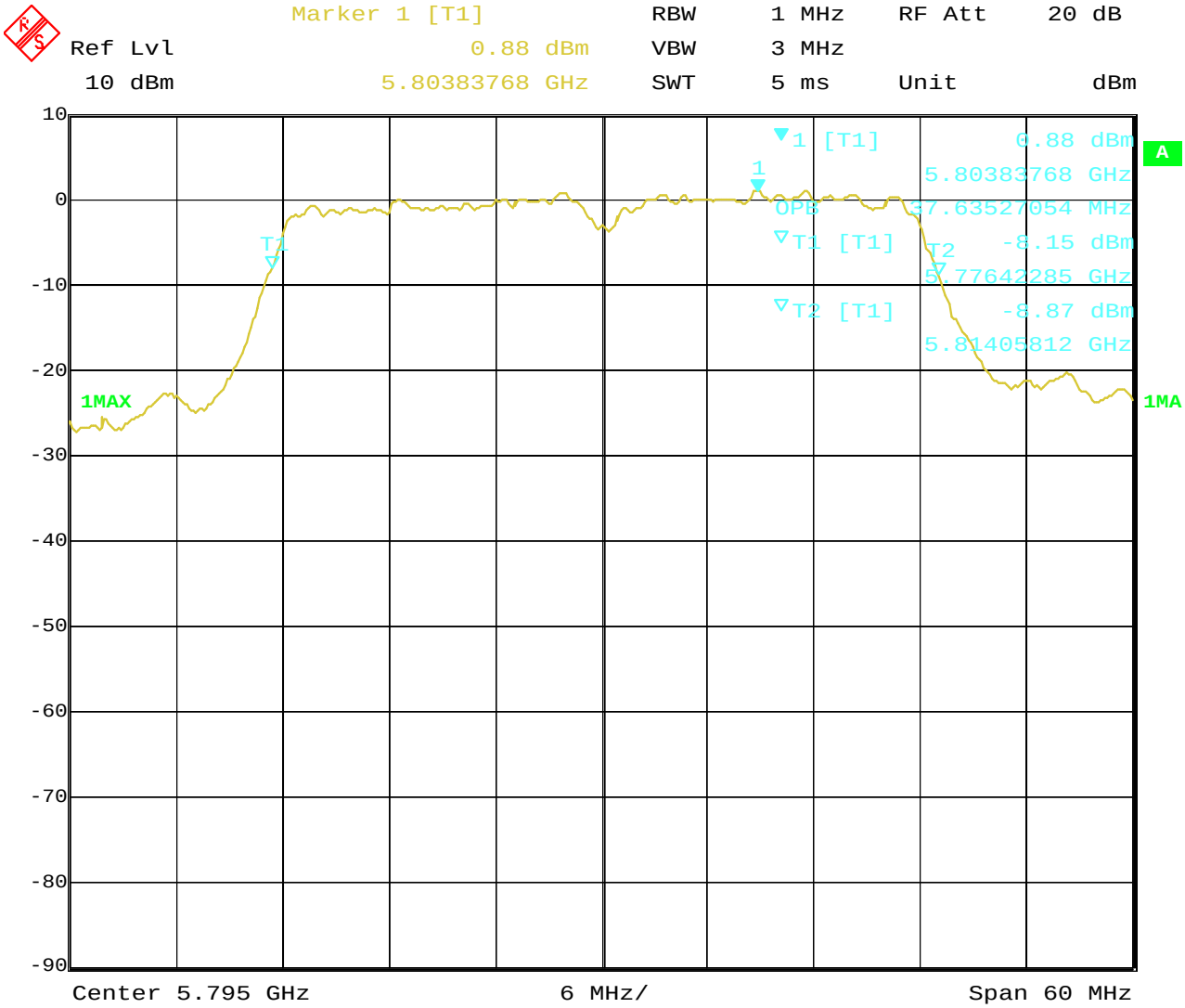
Channel 159



Date: 17.APR.2023 10:11:41

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11ac VHT20	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
36	5180	mcs0	24.53	--	Pass
40	5200	mcs0	24.17	--	Pass
48	5240	mcs0	23.87	--	Pass
99% Bandwidth					
36	5180	mcs0	18.22	--	Pass
40	5200	mcs0	18.28	--	Pass
48	5240	mcs0	18.16	--	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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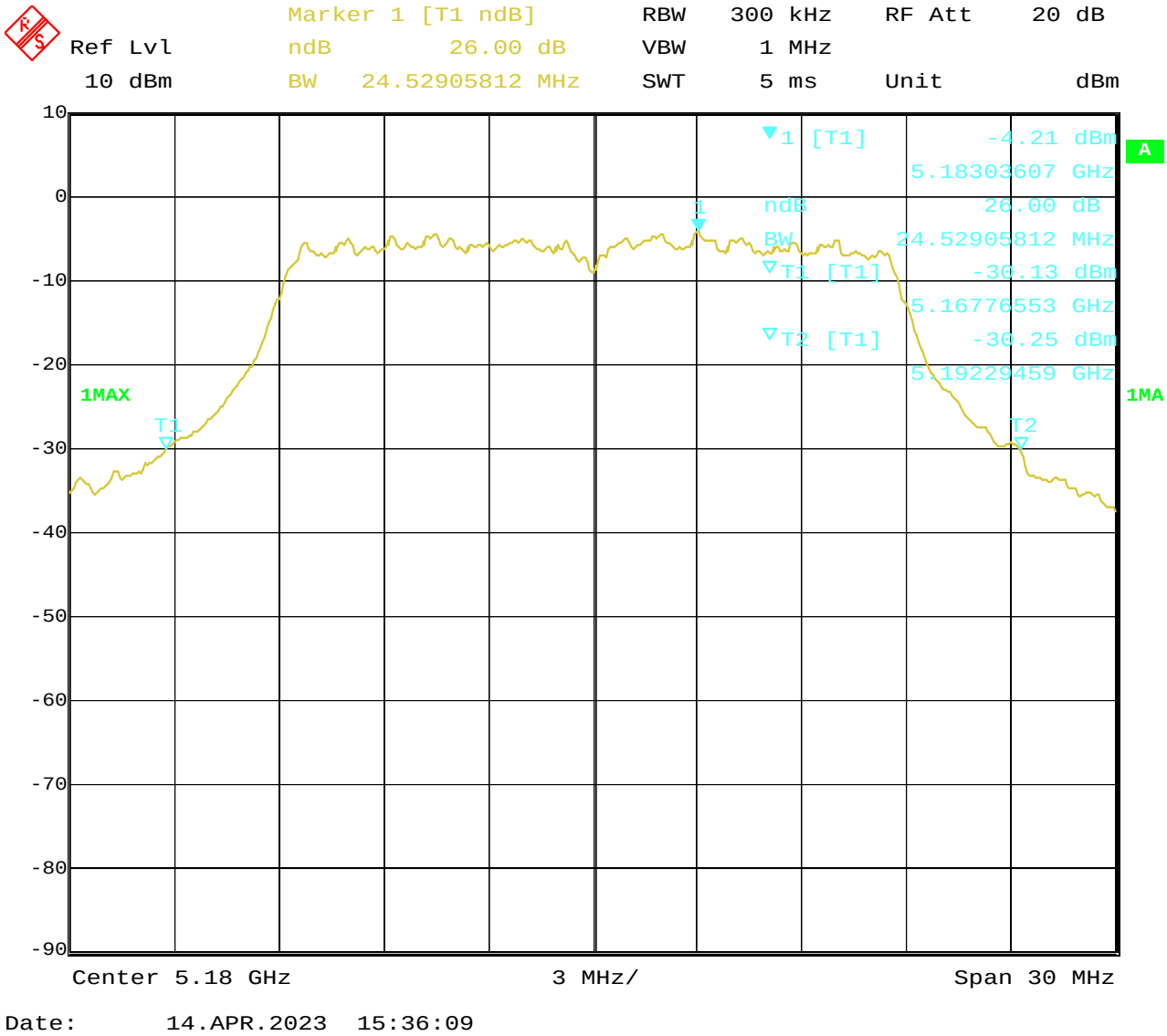
Test Configure

26dB Bandwidth

Channel 36



Date: 14.APR.2023 15:36:09

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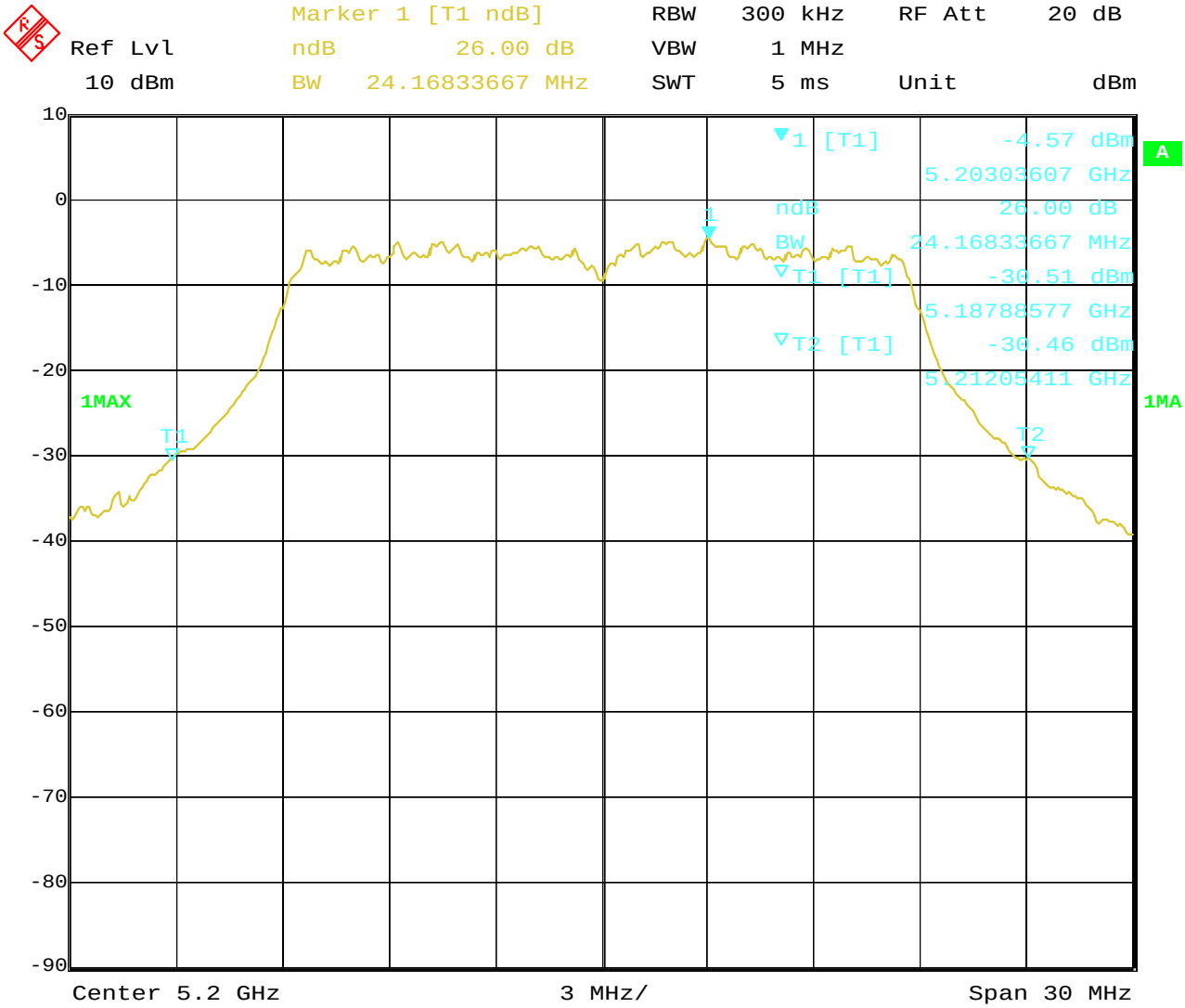
Channel 40



Date: 14.APR.2023 15:52:41

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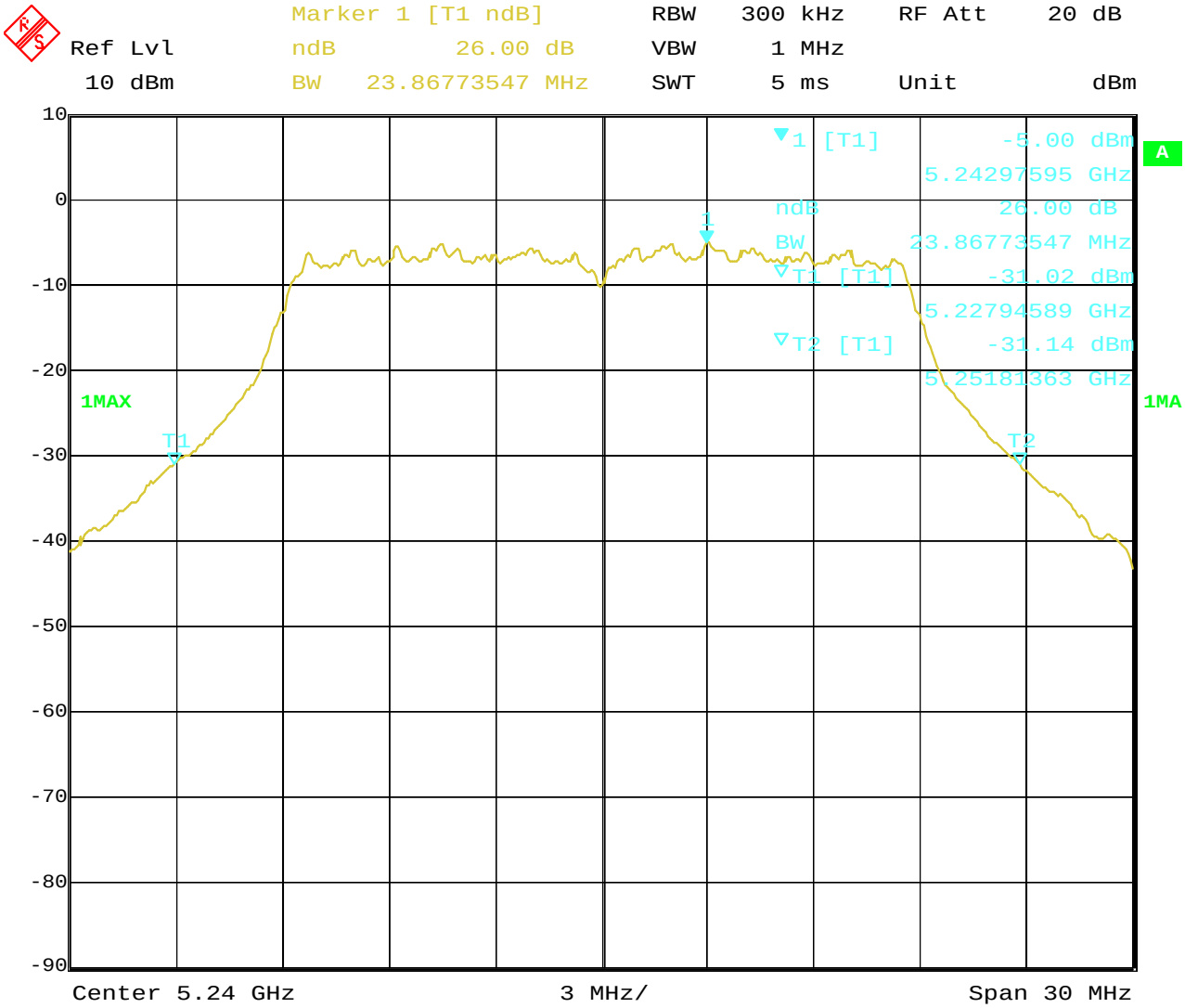
Channel 48



Date: 14.APR.2023 15:58:33

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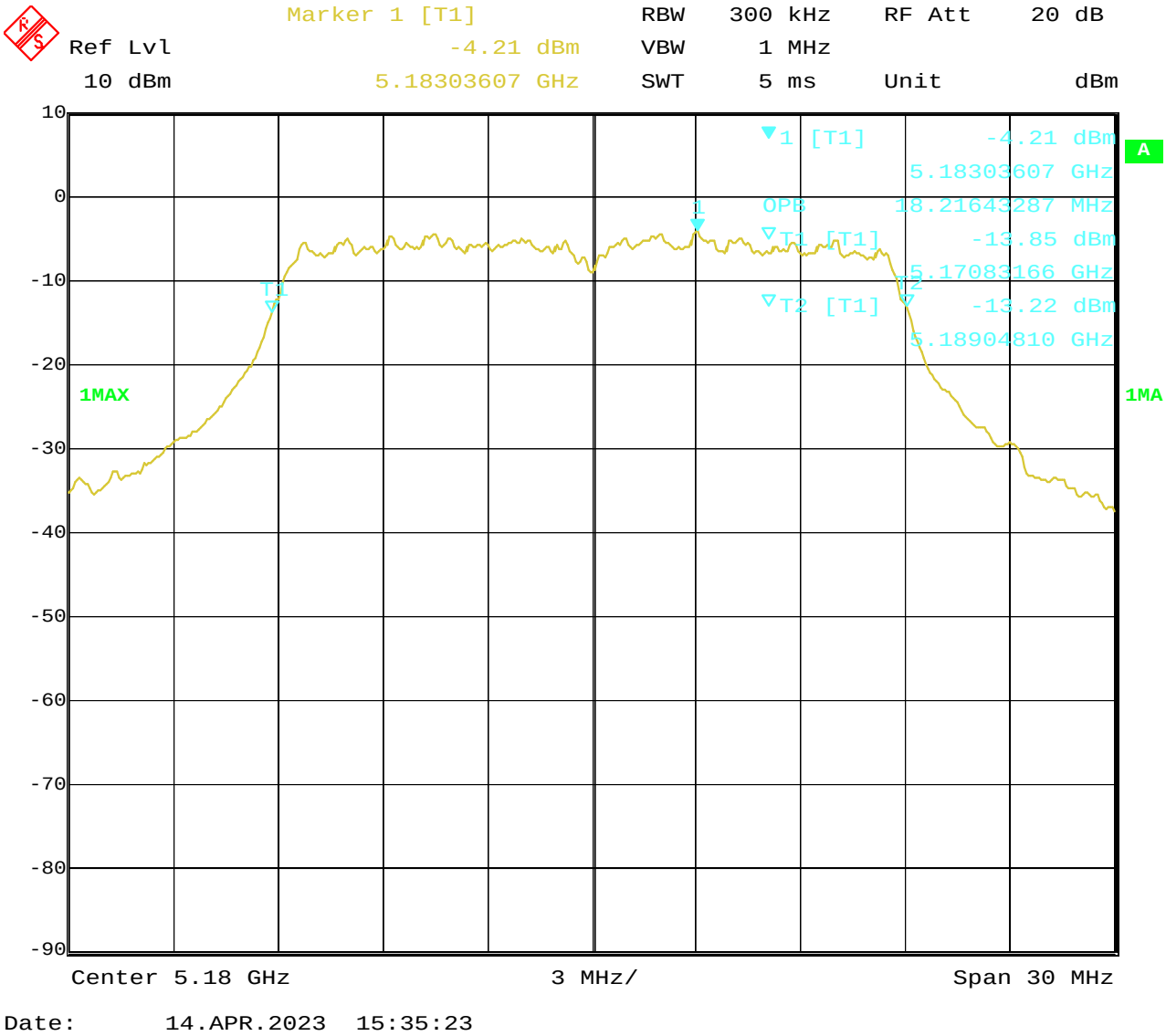
Test Configure

99% Bandwidth

Channel 36



Date: 14.APR.2023 15:35:23

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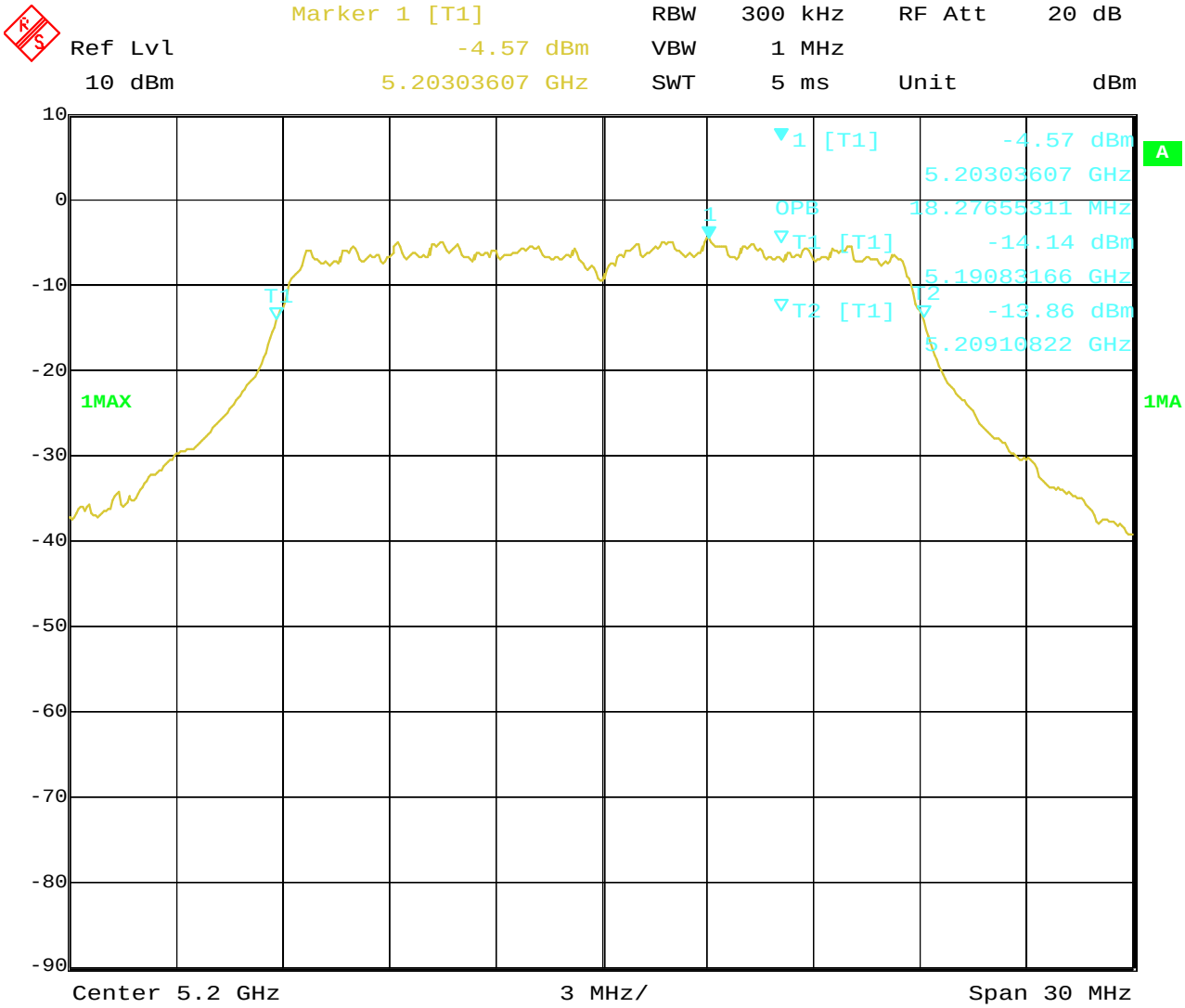
Channel 40



Date: 14.APR.2023 15:52:54

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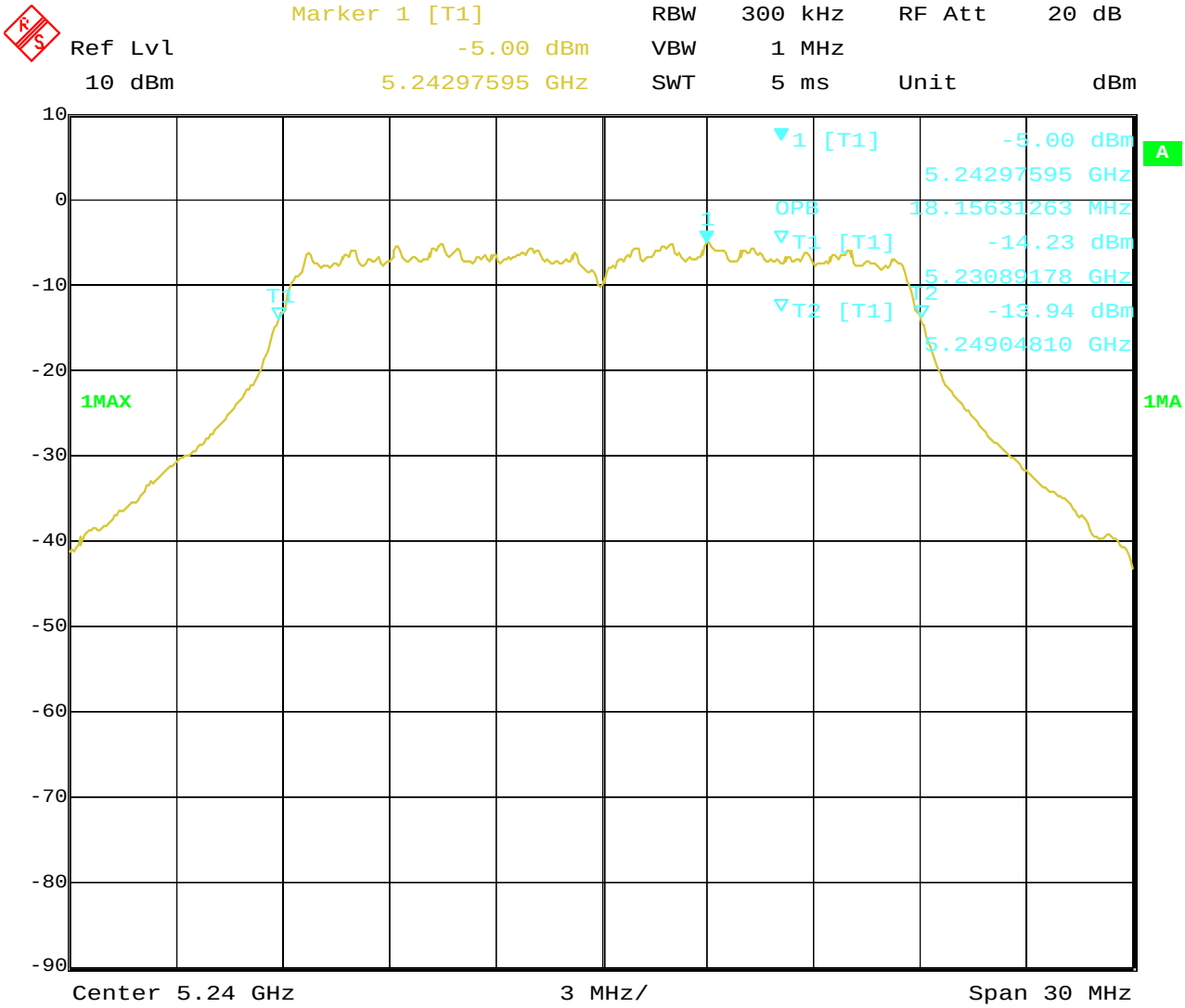
Channel 48



Date: 14.APR.2023 15:58:18

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11ac VHT20	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
149	5745	6	23.75	--	Pass
153	5765	6	23.93	--	Pass
161	5825	6	27.41	--	Pass
6dB Bandwidth					
149	5745	6	17.58	0.5	Pass
153	5765	6	17.21	0.5	Pass
161	5825	6	17.07	0.5	Pass
99% Bandwidth					
149	5745	6	18.22	--	Pass
153	5765	6	18.22	--	Pass
161	5825	6	18.46	--	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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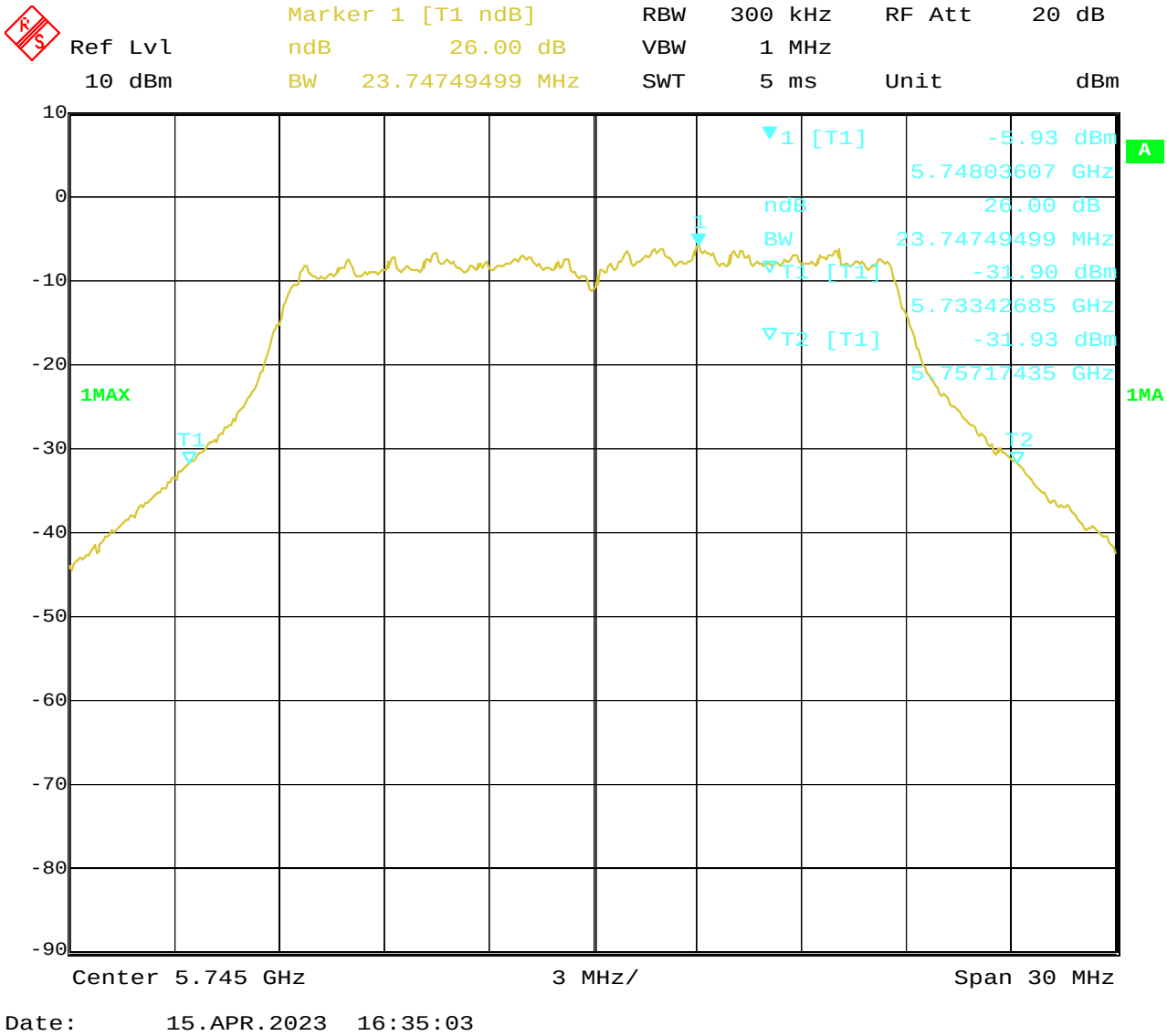
Test Configure

26dB Bandwidth

Channel 149



Date: 15.APR.2023 16:35:03

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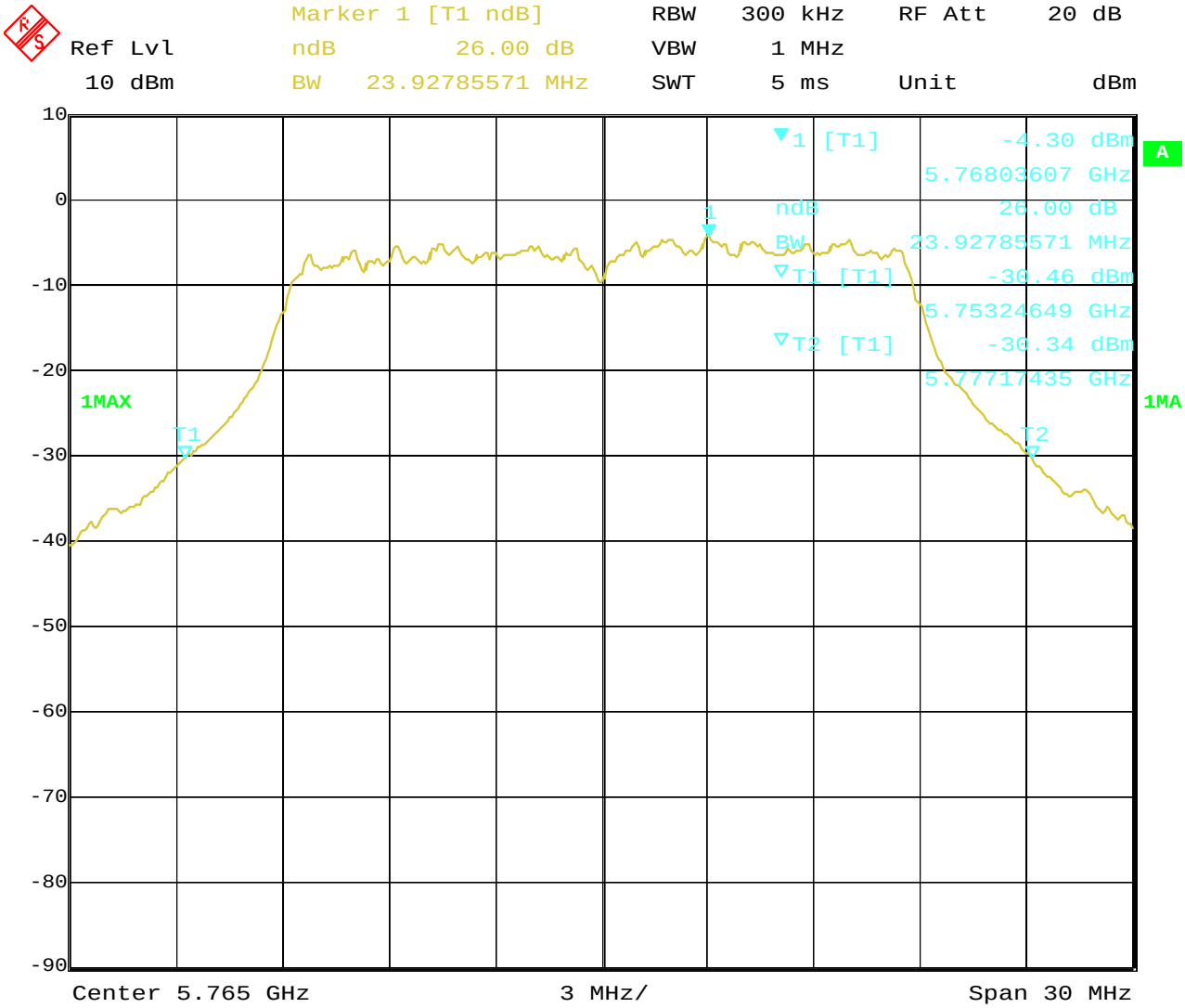
Channel 153



Date: 15.APR.2023 16:32:16

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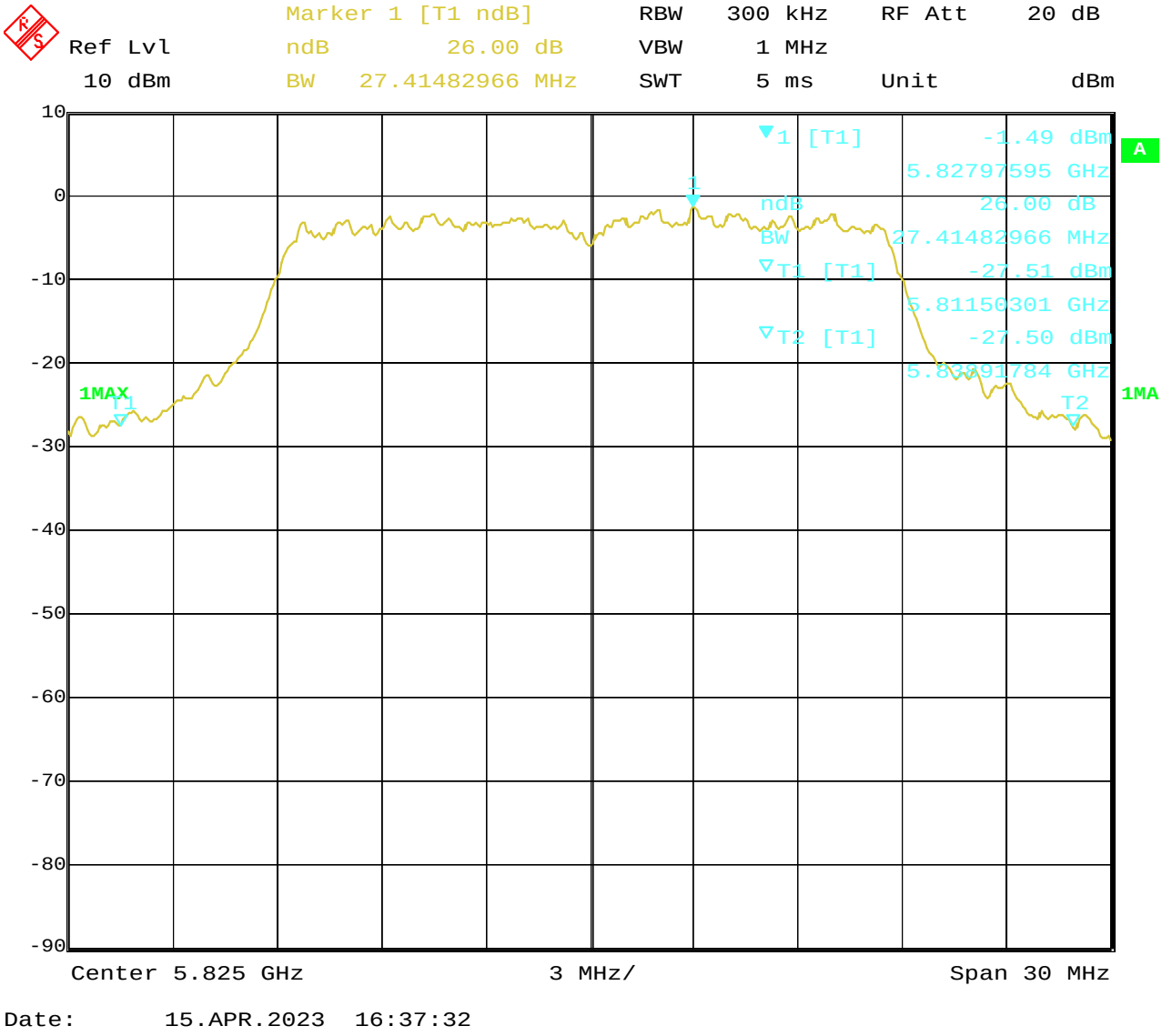
Channel 161



Date: 15.APR.2023 16:37:32

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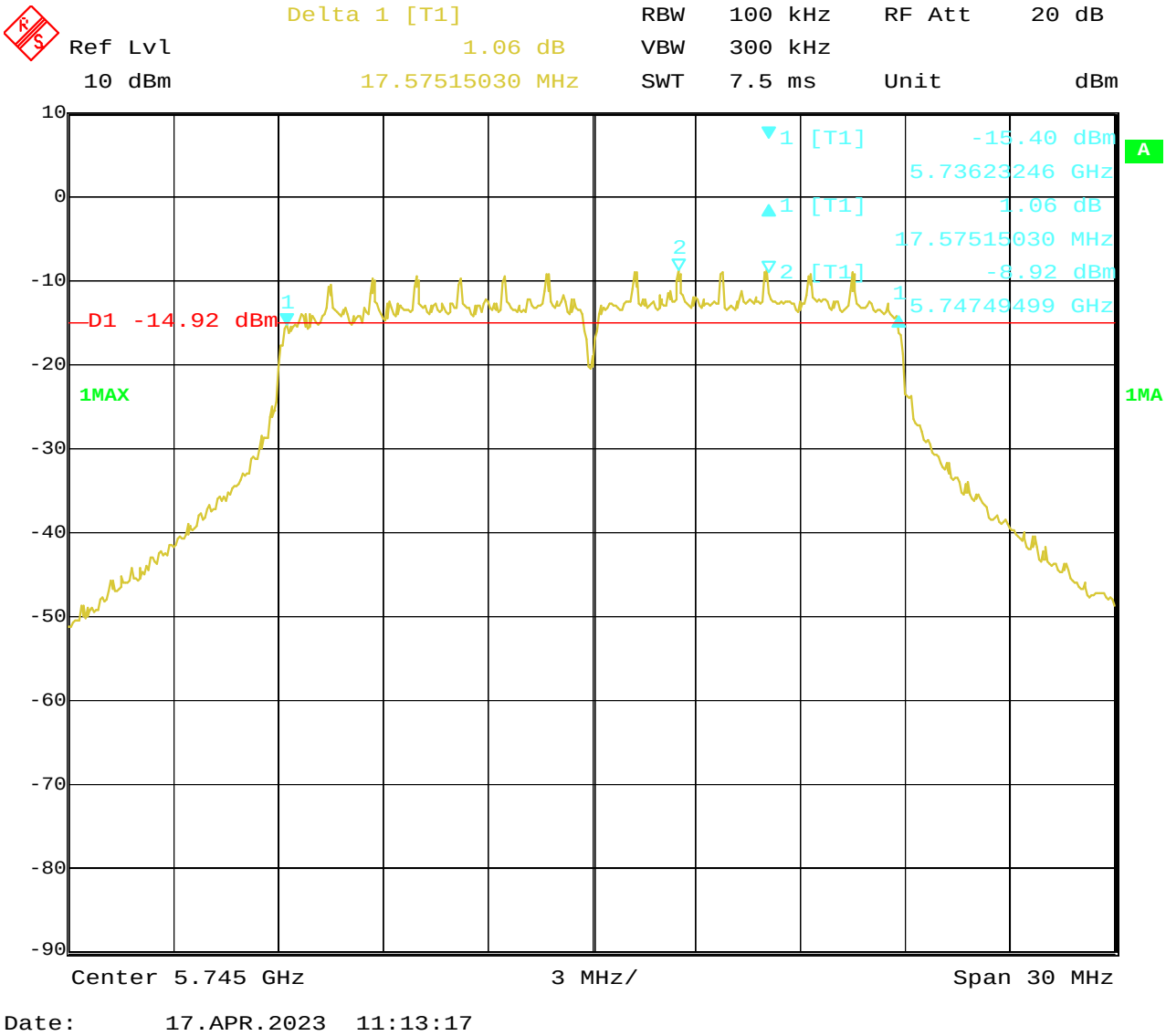
Test Configure

6dB Bandwidth

Channel 149



Date: 17.APR.2023 11:13:17

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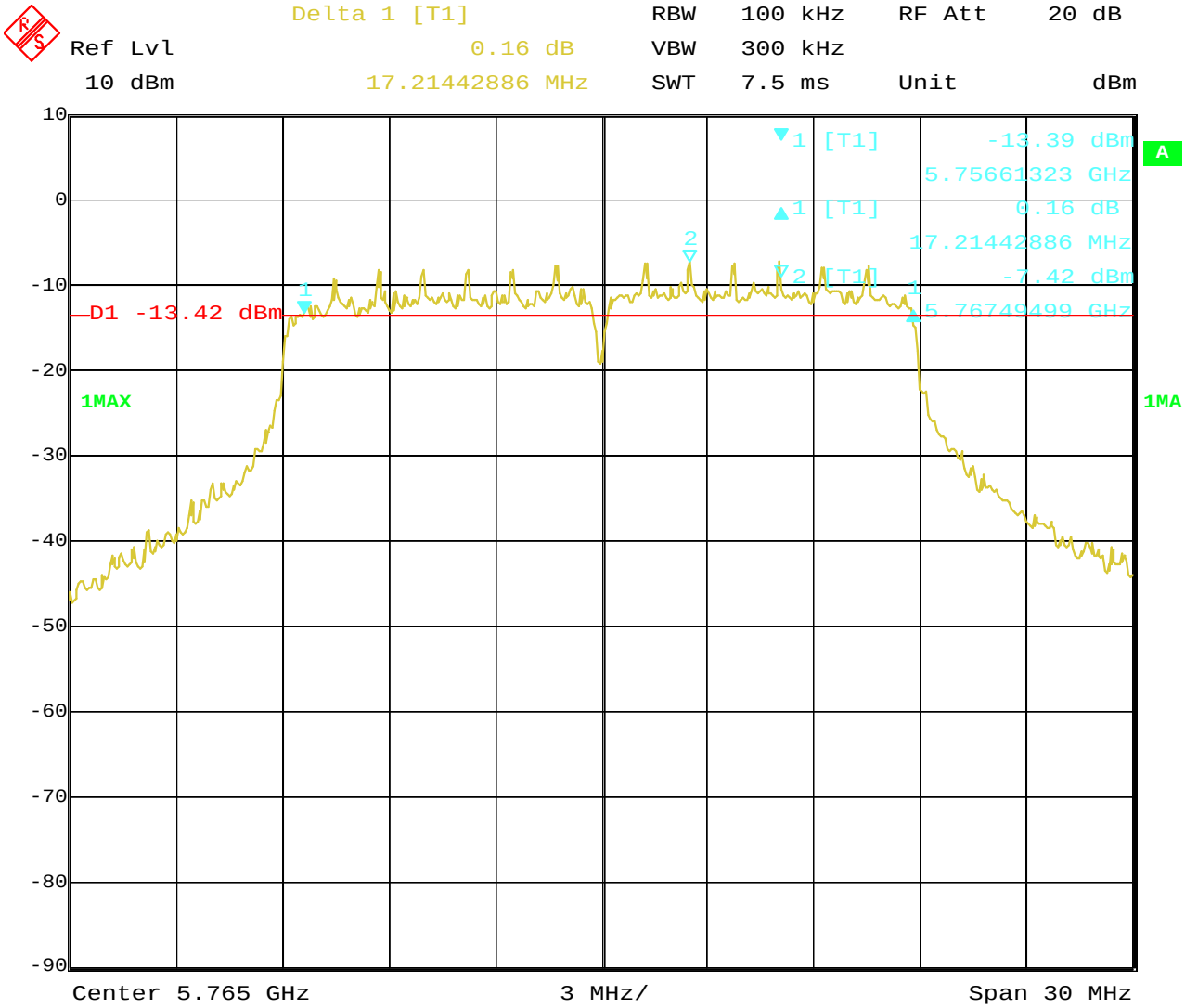
Channel 153



Date: 17.APR.2023 11:15:14

The report refers only to the sample tested and does not apply to the bulk.
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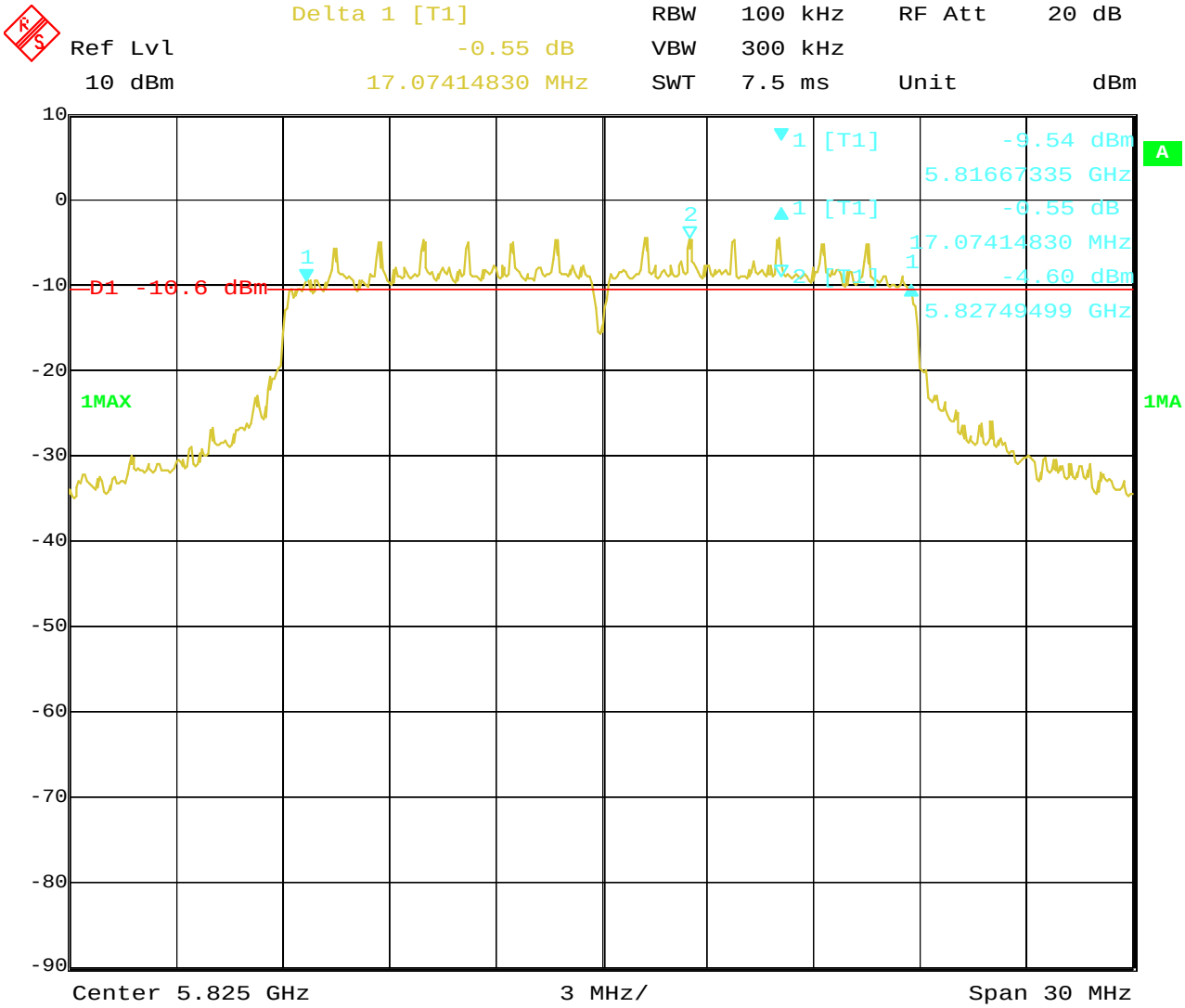
Channel 161



Date: 17.APR.2023 11:18:09

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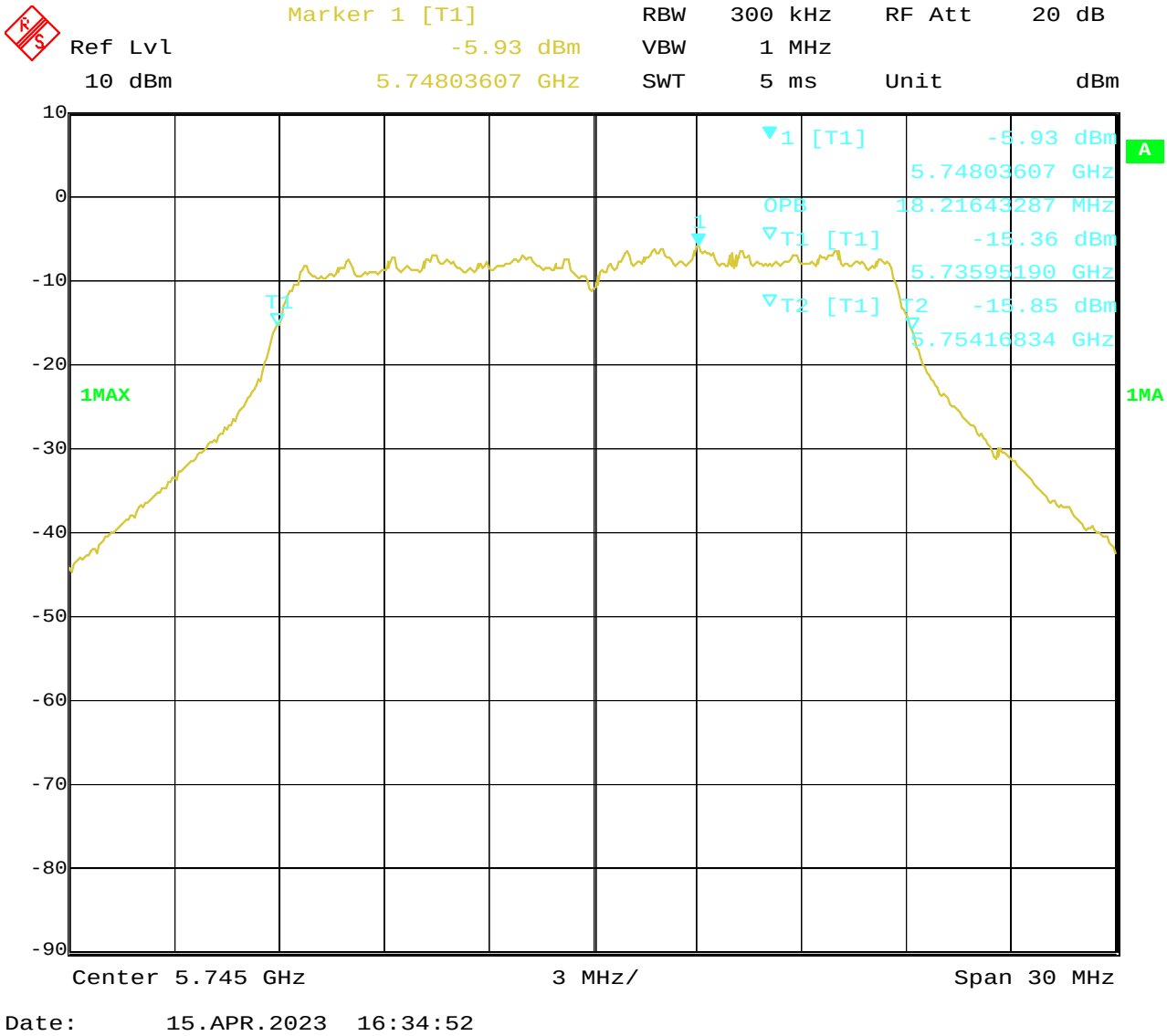
Test Configure

99% Bandwidth

Channel 149



Date: 15.APR.2023 16:34:52

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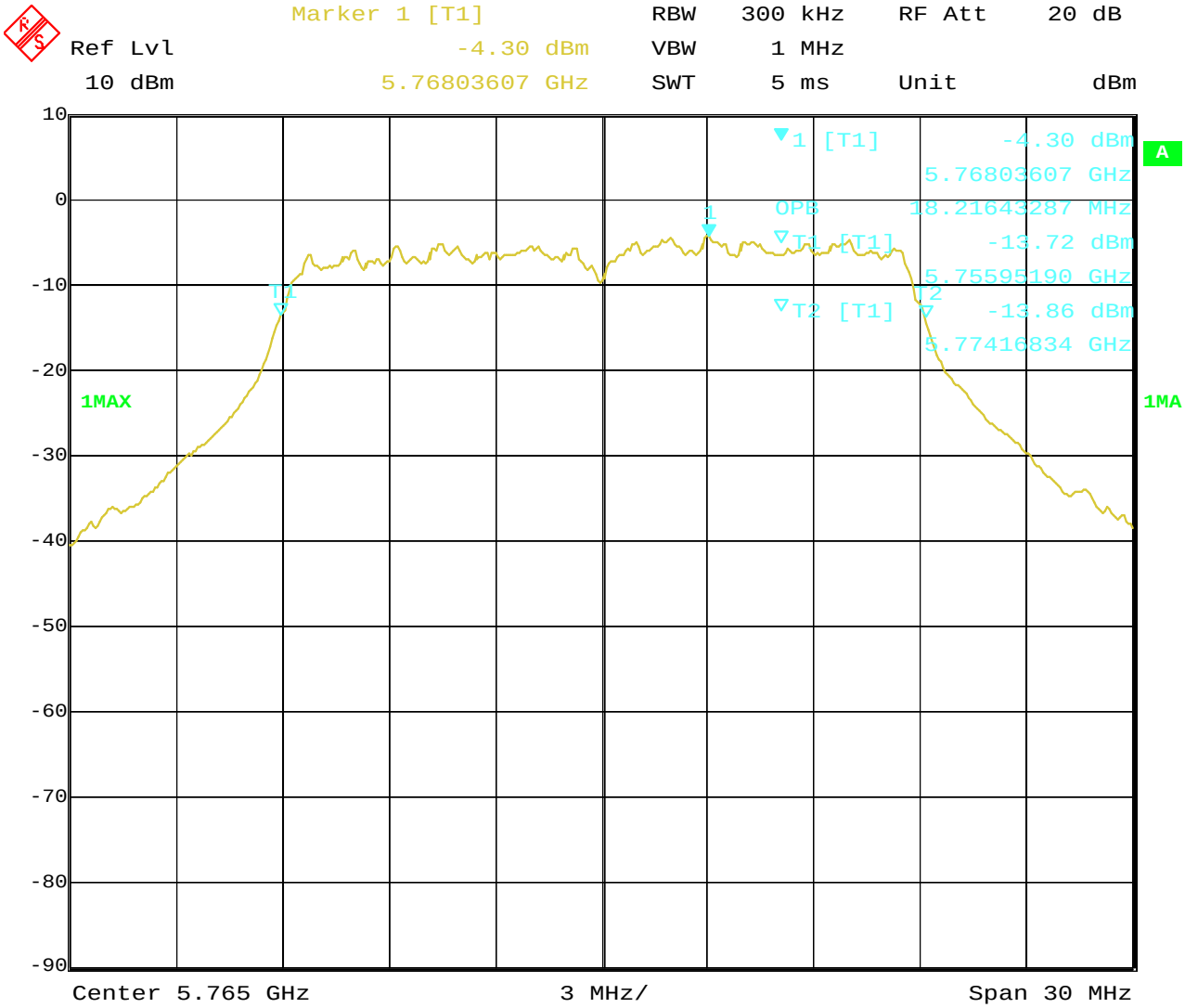
Channel 153



Date: 15.APR.2023 16:32:36

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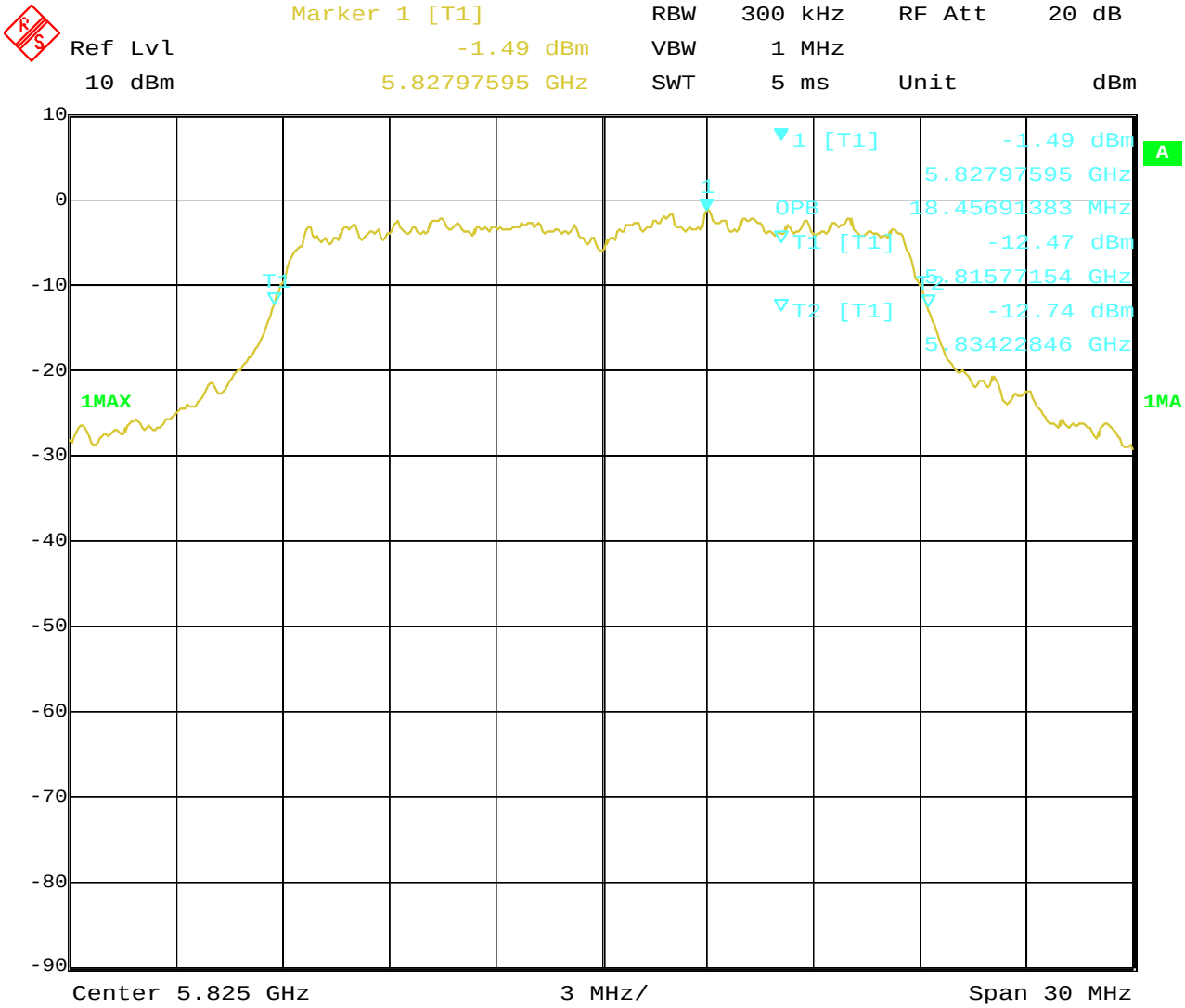
Channel 161



Date: 15.APR.2023 16:37:44

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11ac VHT40	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
38	5190	mcs0	45.81	--	Pass
46	5230	mcs0	45.45	--	Pass
99% Bandwidth					
38	5190	mcs0	37.27	--	Pass
46	5230	mcs0	37.27	--	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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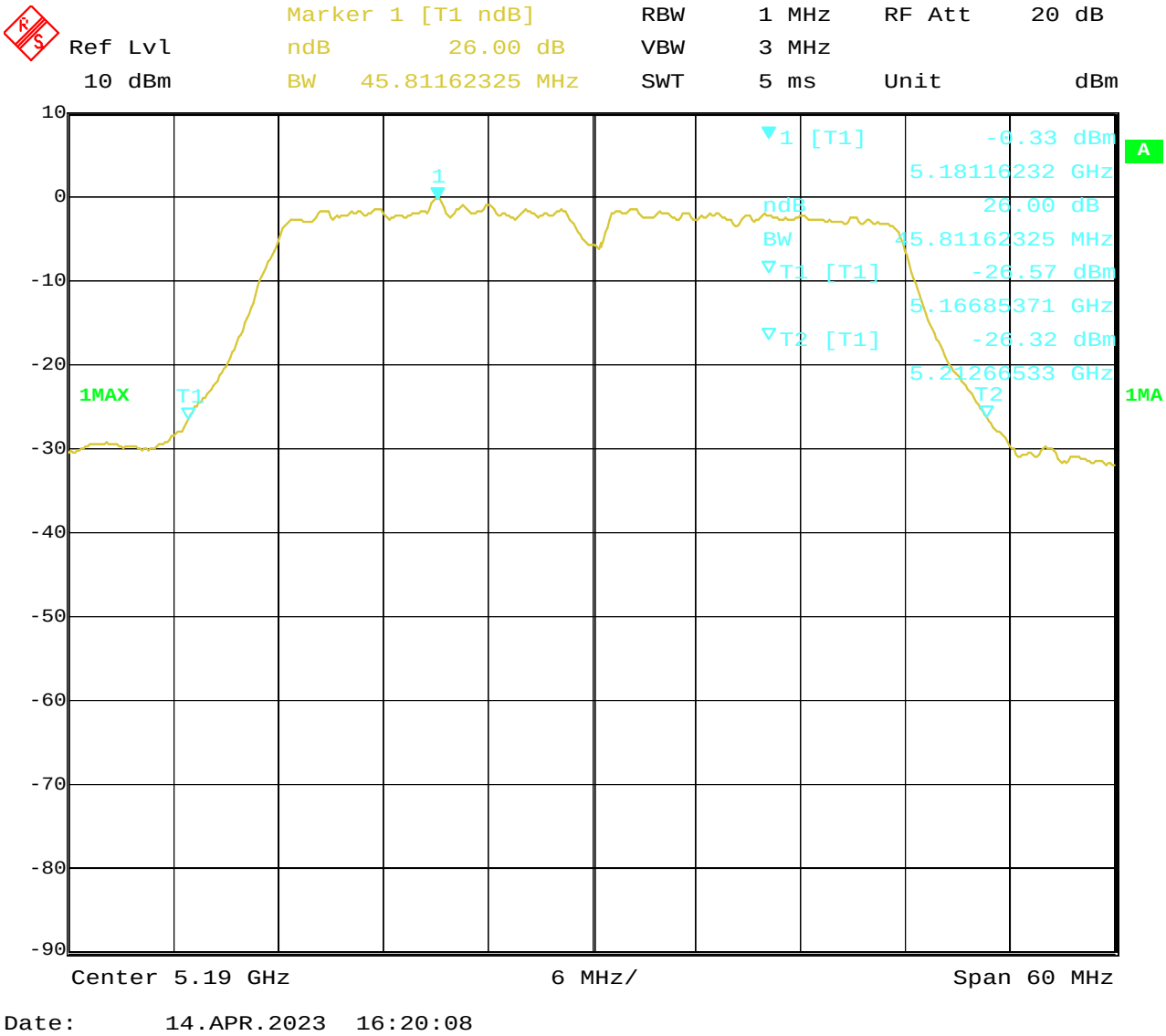
Test Configure

26dB Bandwidth

Channel 38



Date: 14.APR.2023 16:20:08

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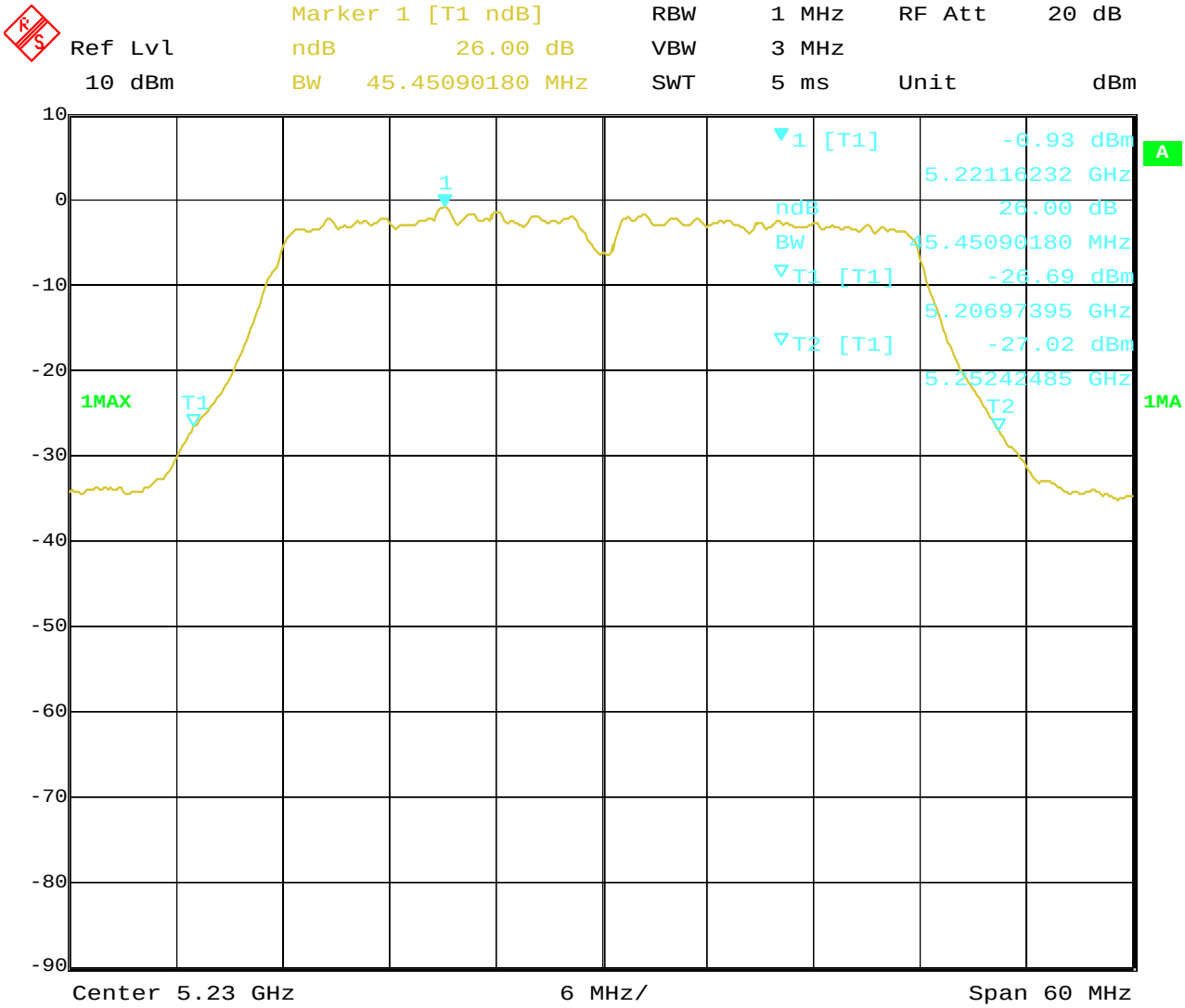
Channel 46



Date: 14.APR.2023 16:14:36

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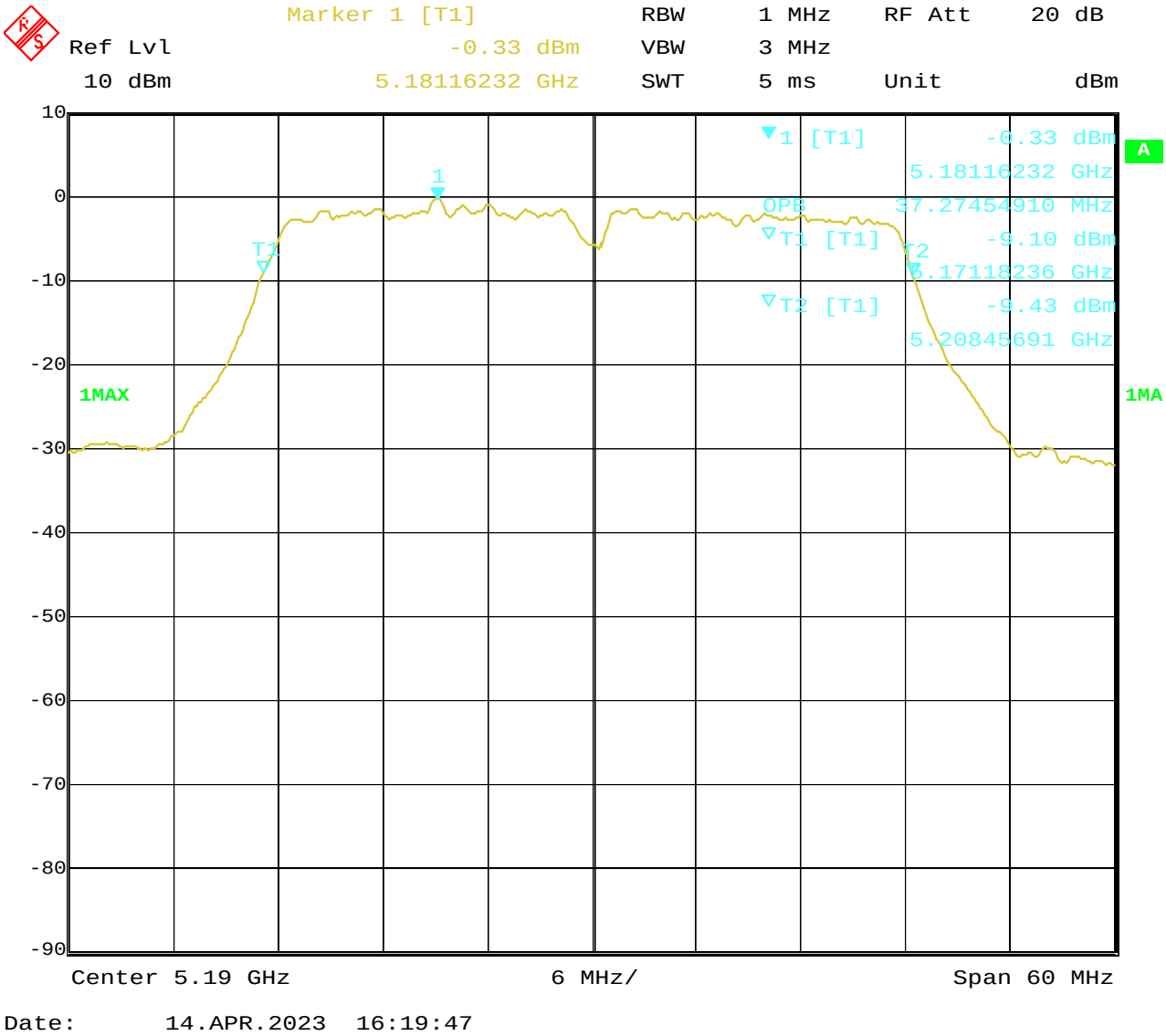
Test Configure

99% Bandwidth

Channel 38



Date: 14.APR.2023 16:19:47

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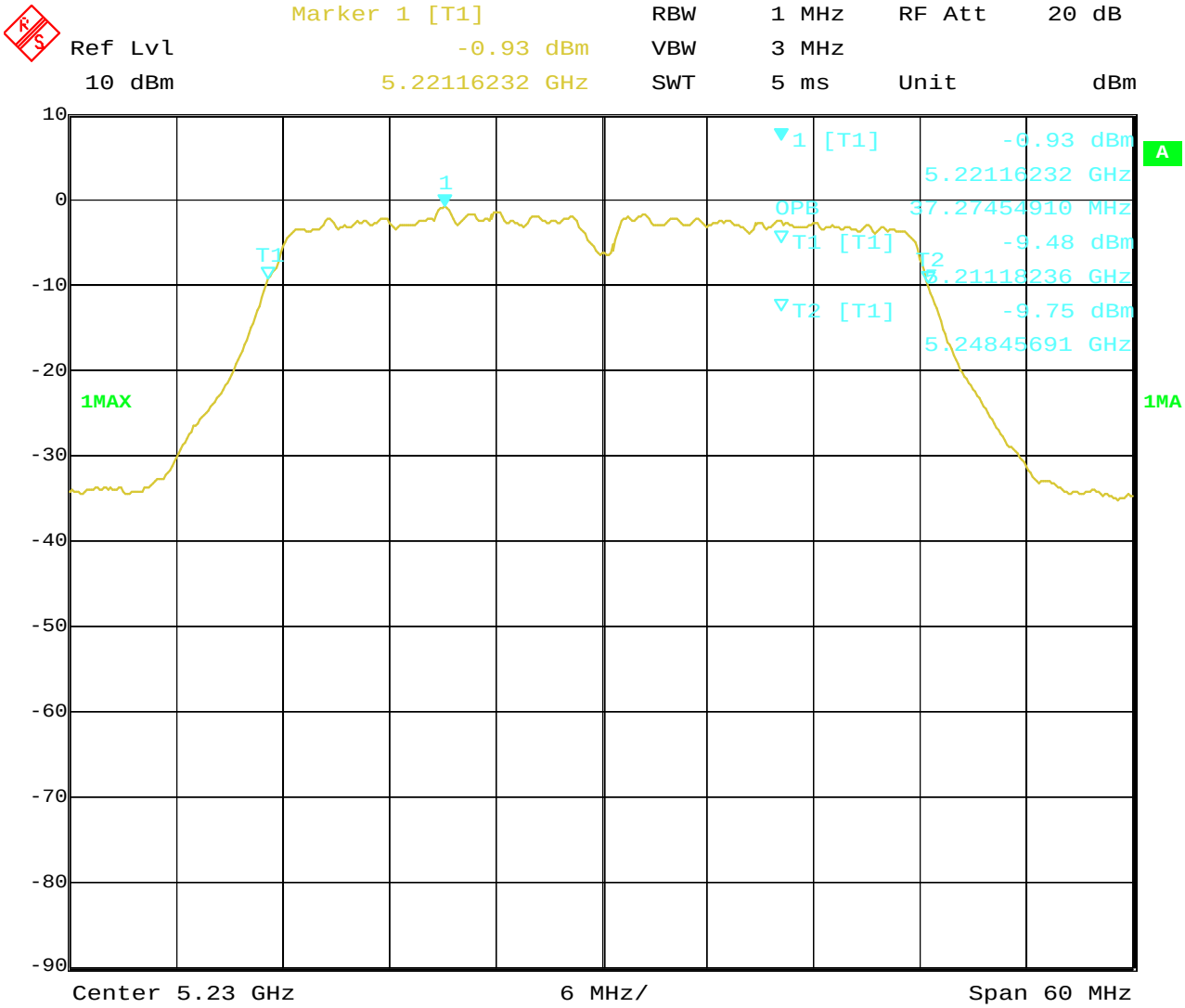
Channel 46



Date: 14.APR.2023 16:14:51

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11ac VHT40	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
151	5755	mcs0	46.41	--	Pass
159	5795	mcs0	52.91	--	Pass
6dB Bandwidth					
151	5755	mcs0	35.73	0.5	Pass
159	5795	mcs0	35.75	0.5	Pass
99% Bandwidth					
151	5755	mcs0	37.27	--	Pass
159	5795	mcs0	37.39	--	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

The report refers only to the sample tested and does not apply to the bulk.
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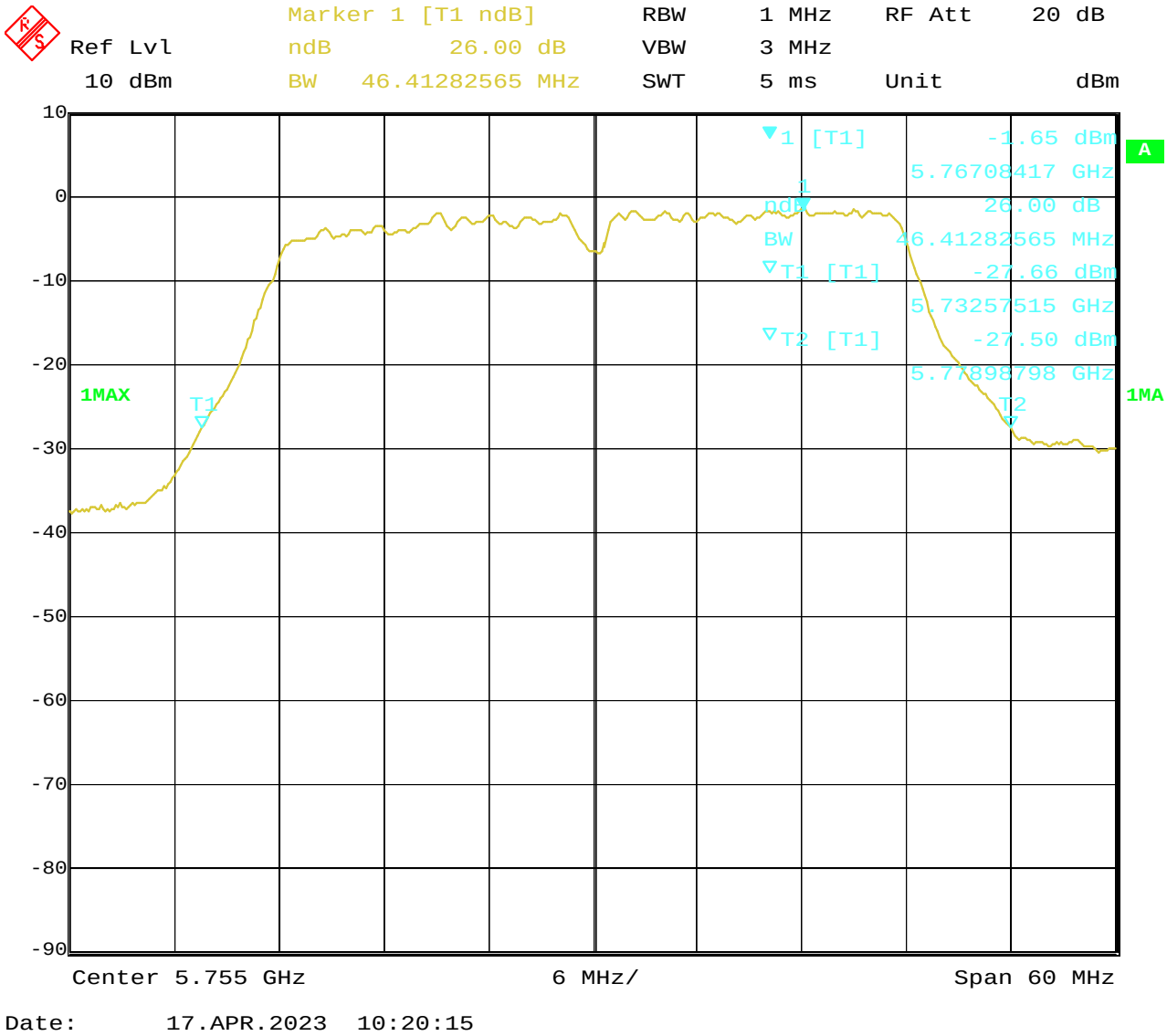
Test Configure

26dB Bandwidth

Channel 151



Date: 17.APR.2023 10:20:15

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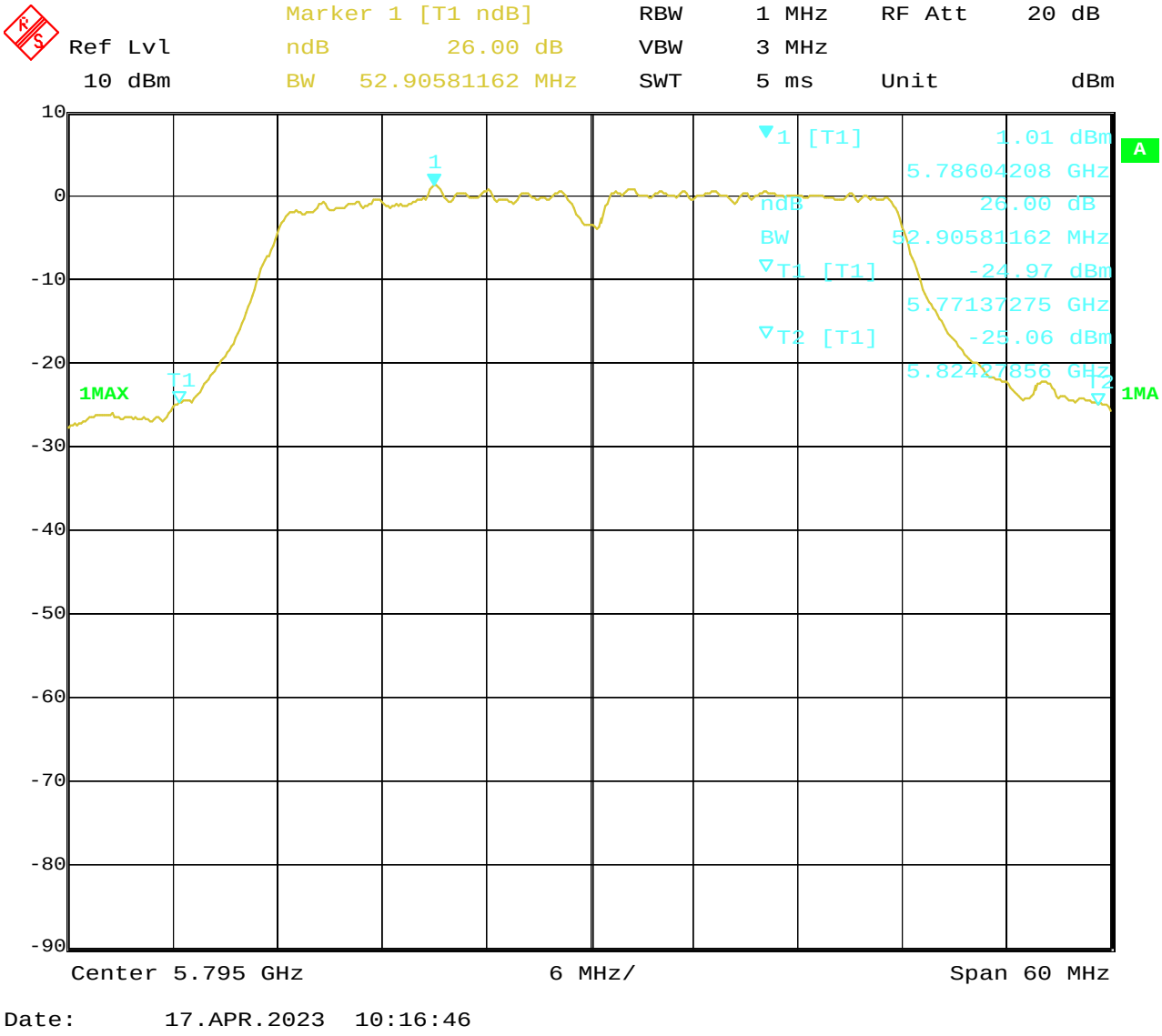
Channel 159



Date: 17.APR.2023 10:16:46

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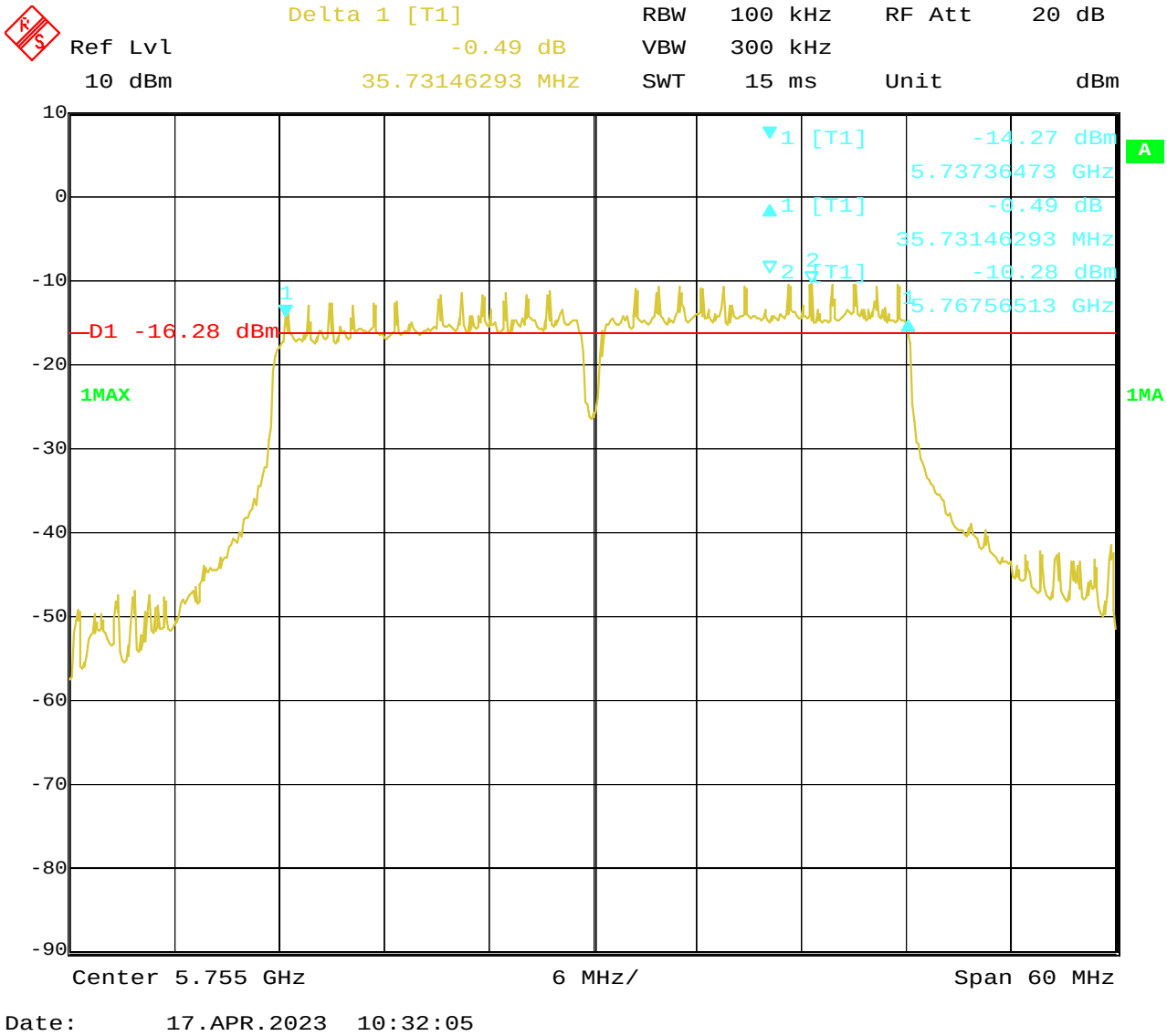
Test Configure

6dB Bandwidth

Channel 151



Date: 17.APR.2023 10:32:05

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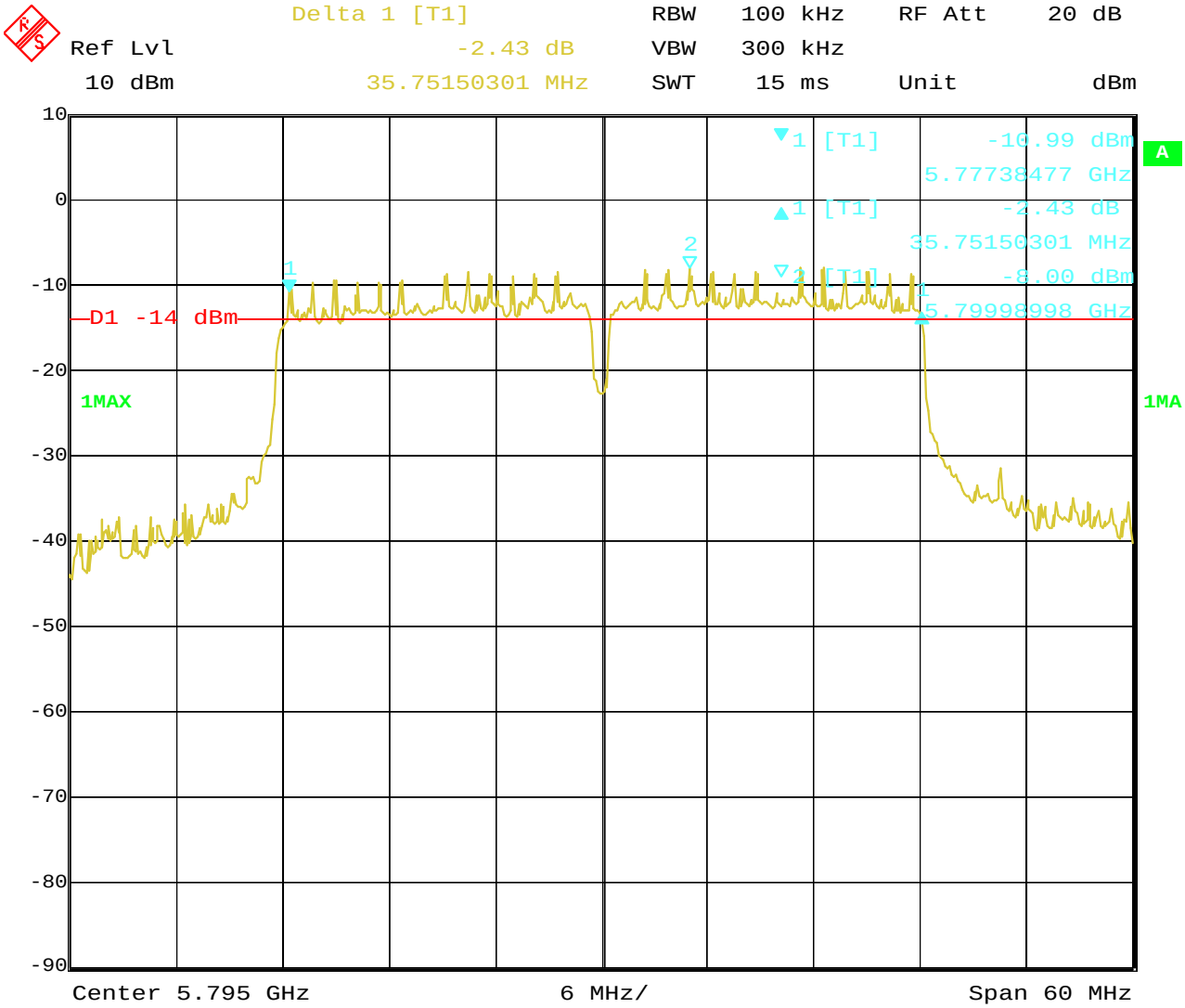
Channel 159



Date: 17.APR.2023 10:35:51

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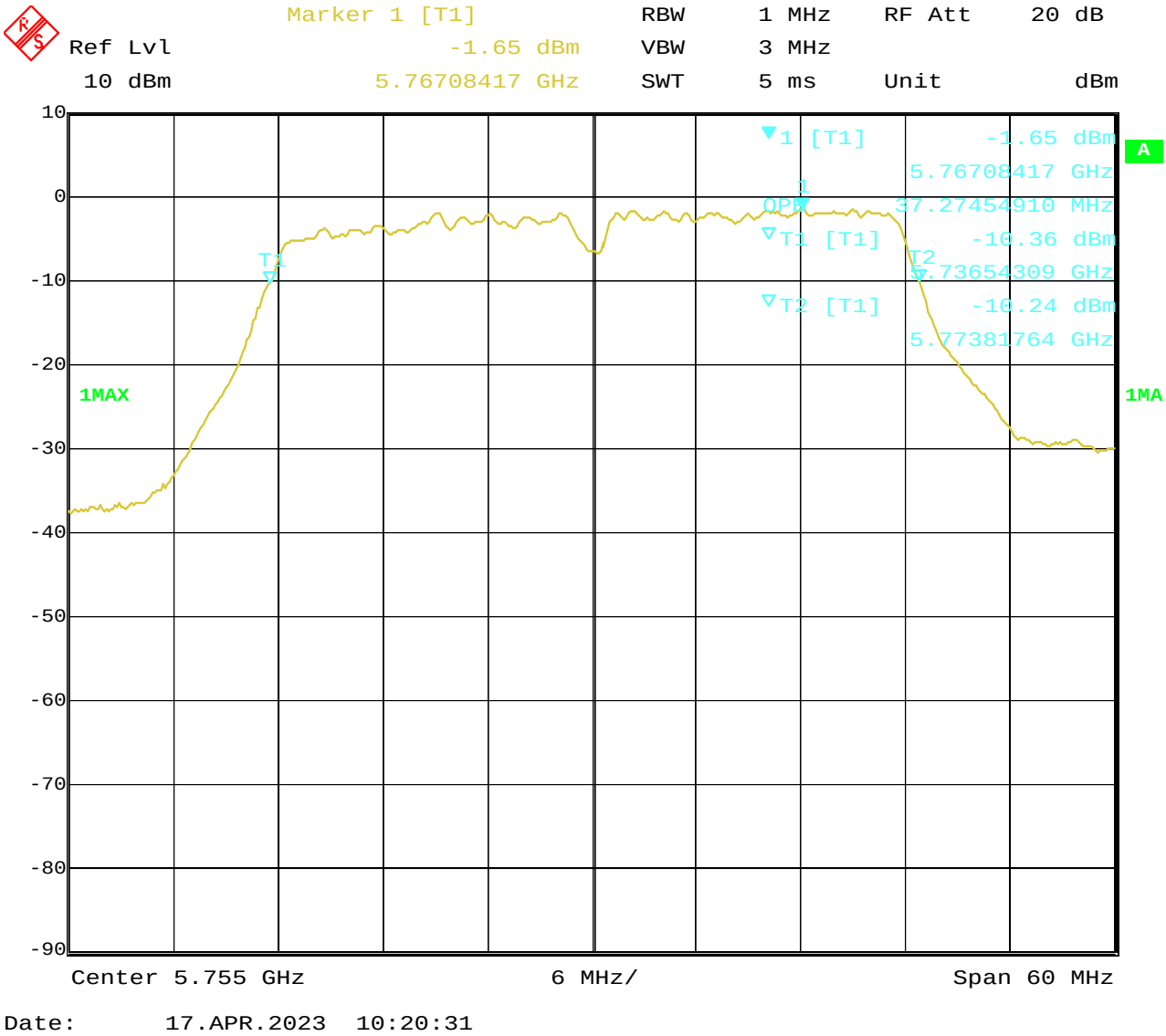
Test Configure

99% Bandwidth

Channel 151



Date: 17.APR.2023 10:20:31

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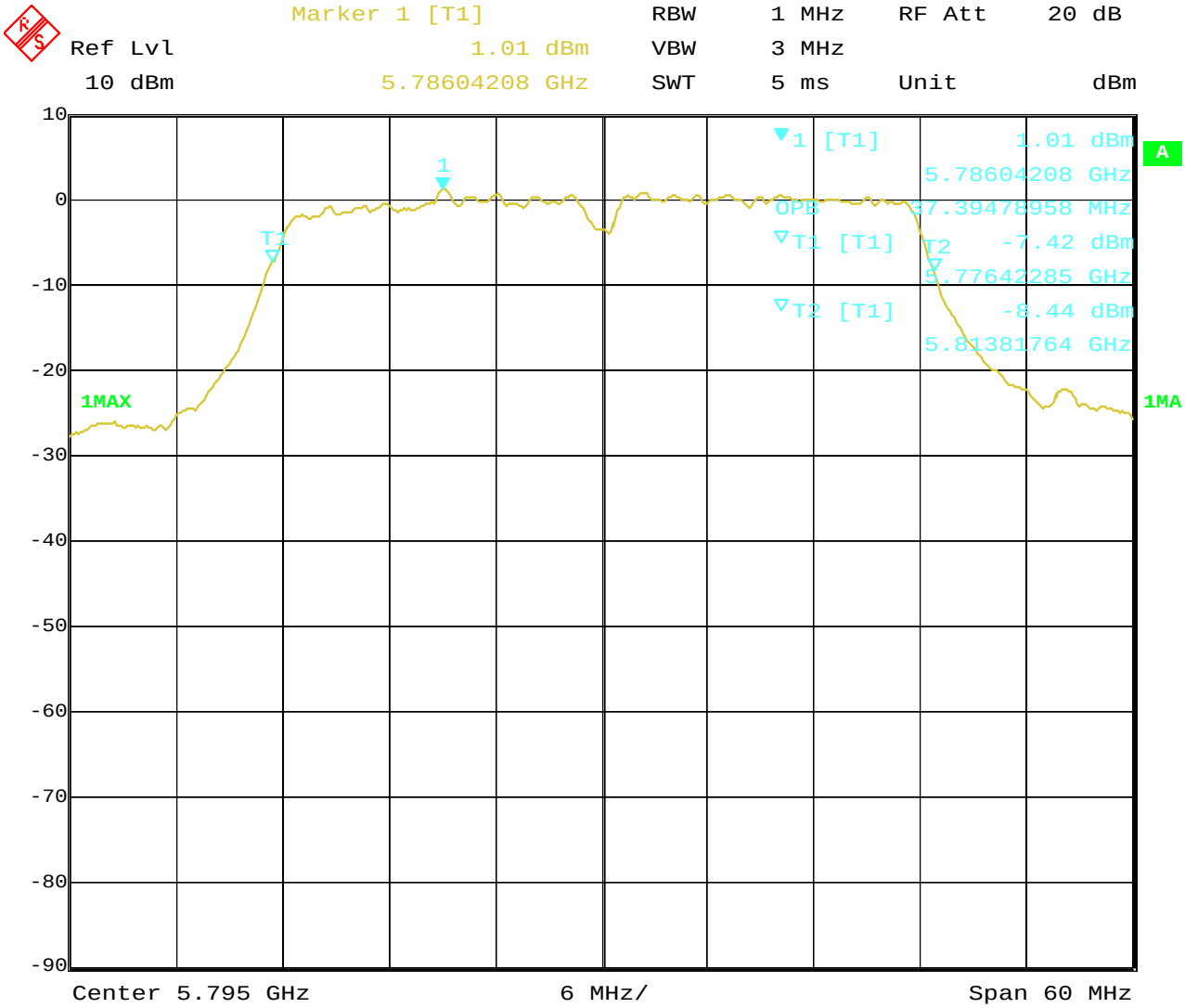
Channel 159



Date: 17.APR.2023 10:16:34

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11ac VHT80	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
42	5210	mcs0	86.09	--	Pass
99% Bandwidth					
42	5210	mcs0	76.23	--	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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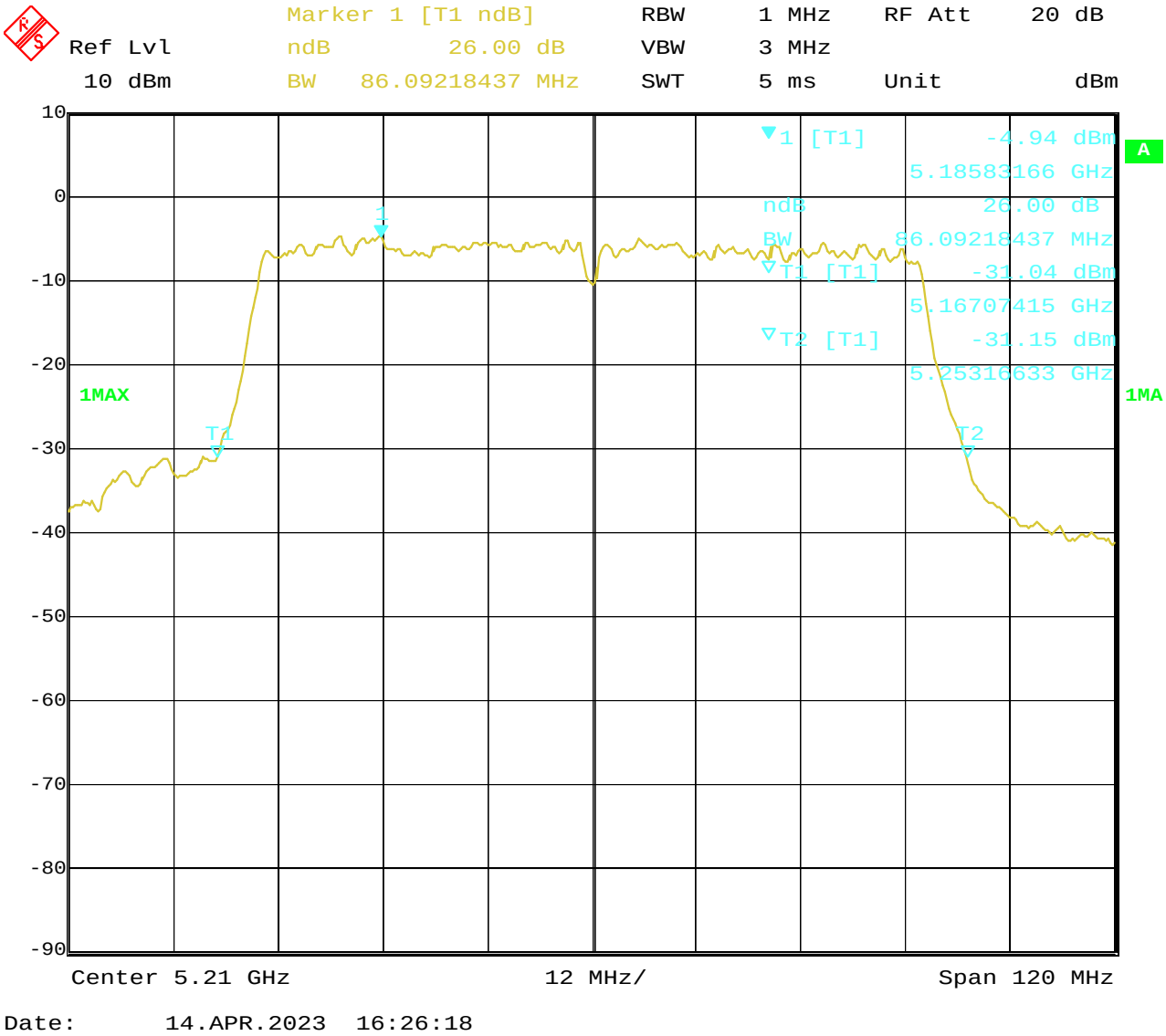
Test Configure

26dB Bandwidth

Channel 42



Date: 14.APR.2023 16:26:18

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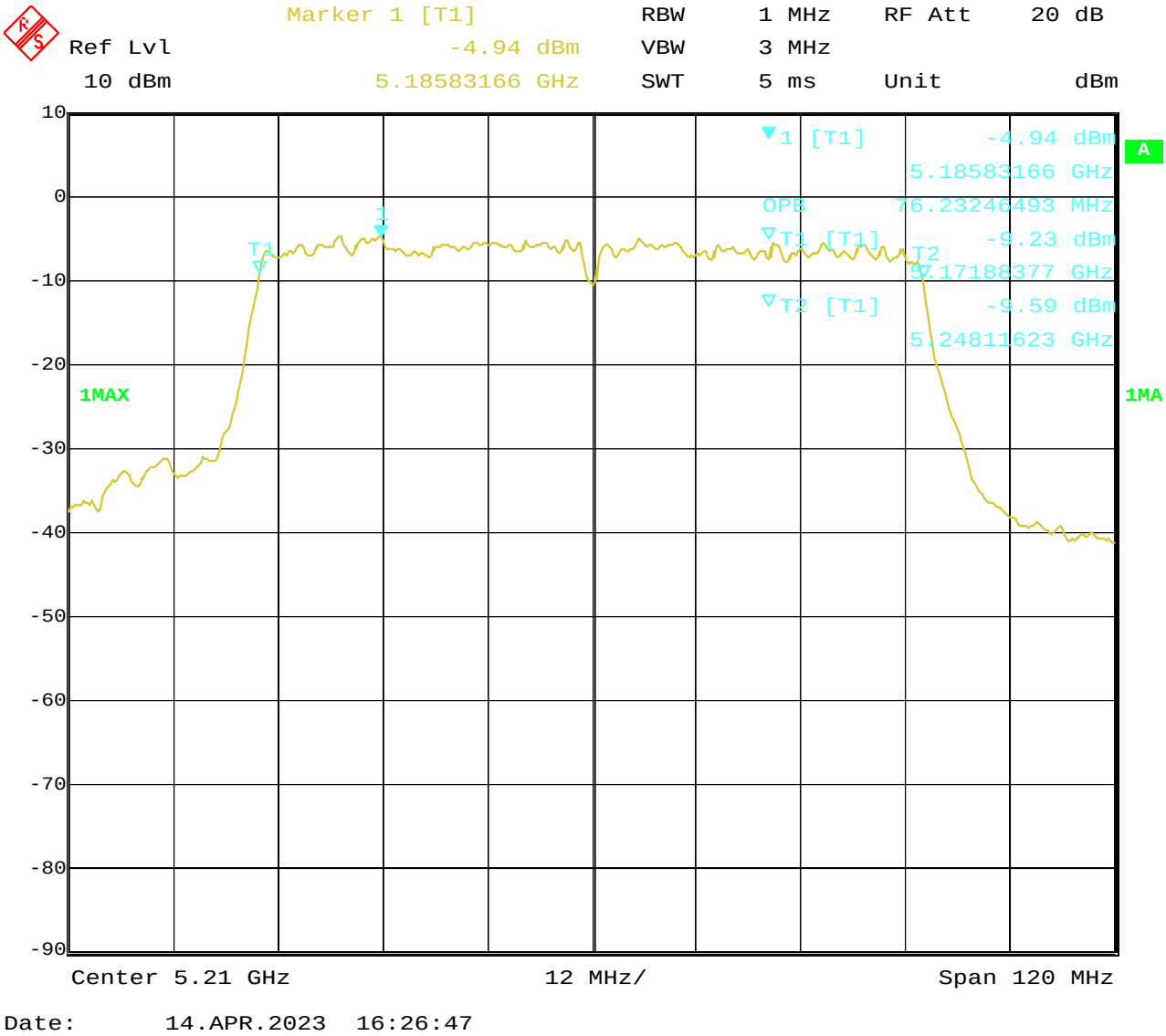
Test Configure

99% Bandwidth

Channel 42



Date: 14.APR.2023 16:26:47

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11ac VHT80	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
155	5775	mcs0	86.33	--	Pass
6dB Bandwidth					
155	5775	mcs0	75.75	0.5	Pass
99% Bandwidth					
155	5775	mcs0	75.99	--	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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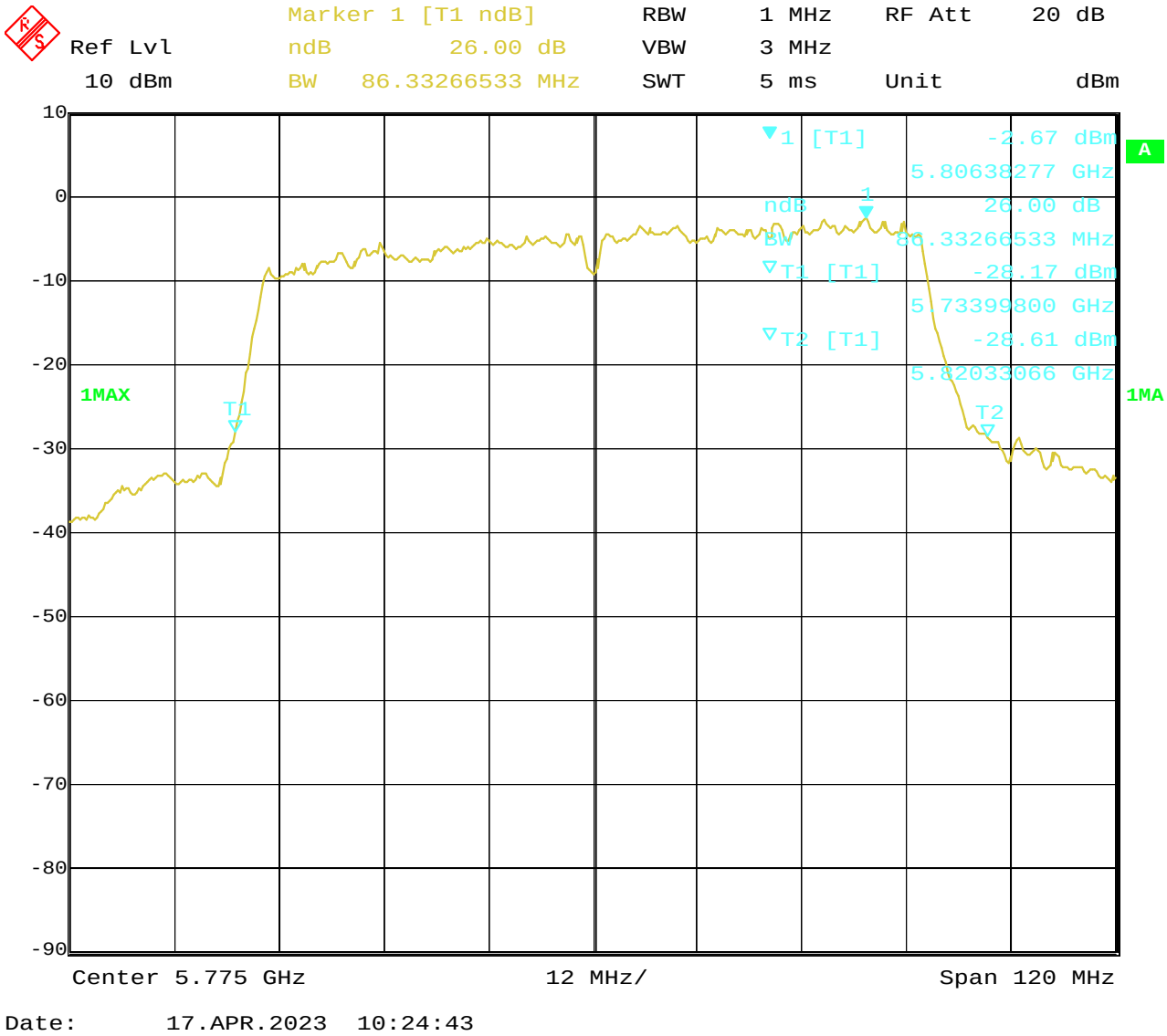
Test Configure

26dB Bandwidth

Channel 155



Date: 17.APR.2023 10:24:43

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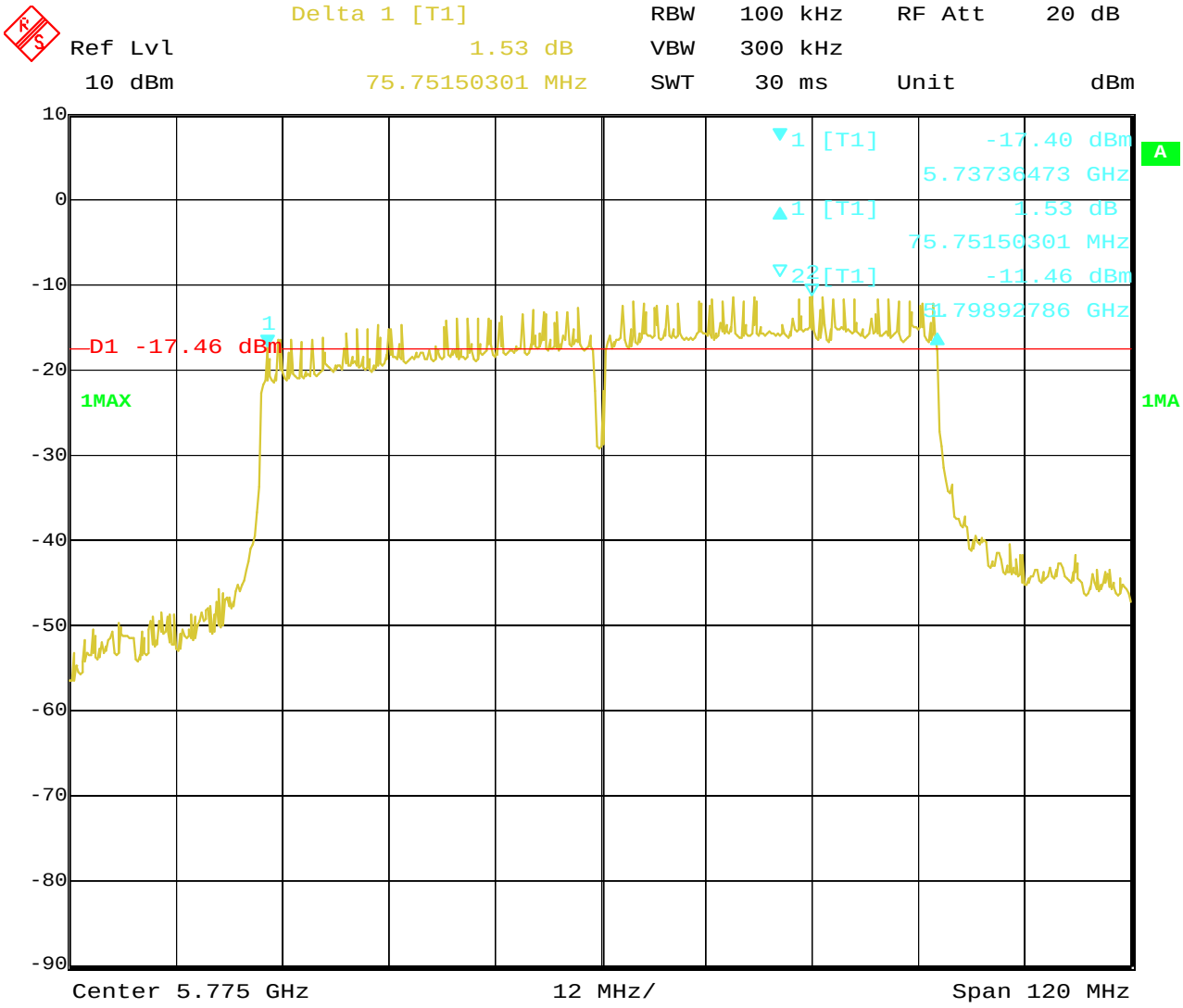
6dB Bandwidth

Channel 155



Date: 17.APR.2023 10:27:11

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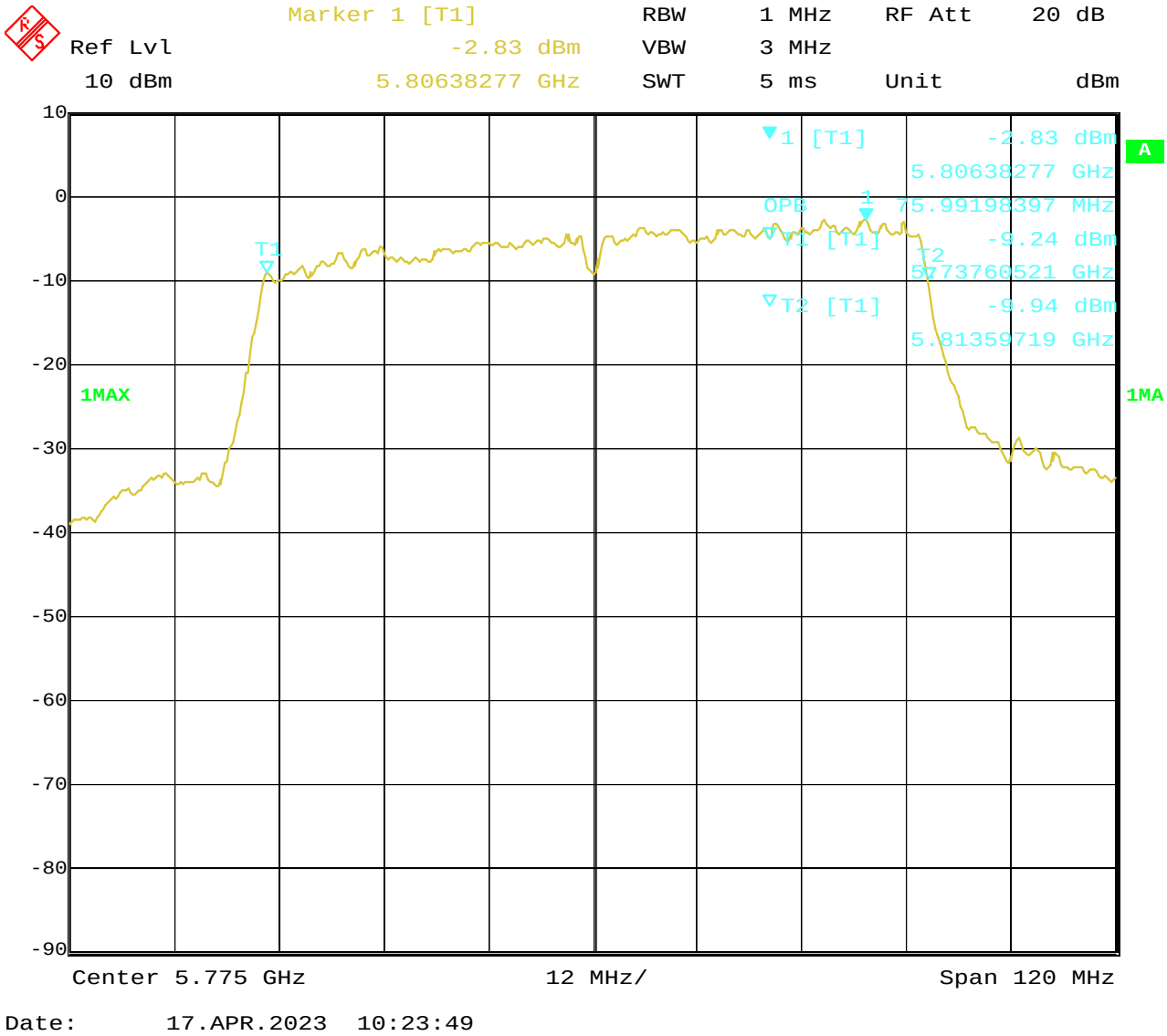
Test Configure

99% Bandwidth

Channel 155



Date: 17.APR.2023 10:23:49

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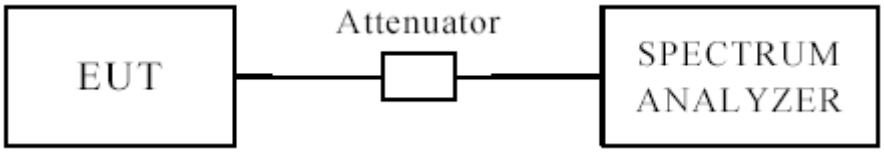
8.0 Peak Transmit Power Measurement

8.1 Test Setup



8.2 Limits of Peak Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) ≦(Max. e.i.r.p 125mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Client device	250mW (24 dBm)
U-NII-2A	--		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	--		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	--		1 Watt (30 dBm)

Note: Where B is the 26dB emission bandwidth in MHz.

8.3 Test Procedure

The average power output was measured with a Spectrum analyzer connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the average power was measured

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8.4Test Results

EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11a	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Ant 2		Ant 1		Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW		
36	5180	0.33	1.08	0.12	1.03	24	Pass
40	5200	-2.09	0.62	-2.35	0.58	24	Pass
48	5240	-2.75	0.53	-2.91	0.51	24	Pass
149	5745	-2.82	0.52	-3.02	0.50	30	Pass
153	5765	-1.21	0.76	-1.46	0.71	30	Pass
161	5825	1.47	1.40	1.23	1.33	30	Pass

Note: 1. At finial test to get the worst-case emission at 6Mbps for CH36, CH40 and CH48

2. The result basic equation calculation as follow:

Average Power Output = AV Power Reading + Cable loss + Attenuator

3. The worse case was recorded

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11n HT20	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Ant 2		Ant 1		Total Power-MIMO (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
36	5180	-3.53	0.44	-3.76	0.42	-0.63	24	Pass
40	5200	-3.90	0.41	-4.26	0.37	-1.07	24	Pass
48	5240	-4.74	0.34	-4.91	0.32	-1.81	24	Pass
149	5745	-3.26	0.47	-3.57	0.44	-0.40	30	Pass
153	5765	-1.63	0.69	-1.82	0.66	1.29	30	Pass
161	5825	0.94	1.24	0.53	1.13	3.75	30	Pass

Note: 1. At finial test to get the worst-case emission at mcs0 for CH36, CH40 and CH48

2. The result basic equation calculation as follow:

Average Power Output = AV Power Reading + Cable loss + Attenuator

3. The worse case was recorded

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11n HT40	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Ant 2		Ant 1		Total Power-MIMO (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
38	5190	-5.38	0.29	-5.57	0.28	-2.46	24	Pass
46	5230	-6.05	0.25	-6.38	0.23	-3.20	24	Pass
151	5755	-4.31	0.37	-4.66	0.34	-1.47	30	Pass
159	5795	-1.70	0.68	-1.97	0.64	1.18	30	Pass

Note: 1. At finial test to get the worst-case emission at mcs0 for CH38 and CH46

2. The result basic equation calculation as follow:

Average Power Output = AV Power Reading + Cable loss + Attenuator

3. The worse case was recorded

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11ac VHT20	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Ant 2		Ant 1		Total Power-MIMO (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
36	5180	-3.56	0.44	-3.82	0.41	-0.68	24	Pass
40	5200	-3.99	0.40	-4.31	0.37	-1.14	24	Pass
48	5240	-4.79	0.33	-4.90	0.32	-1.83	24	Pass
149	5745	-3.18	0.48	-3.58	0.44	-0.37	30	Pass
153	5765	-1.60	0.69	-1.99	0.63	1.22	30	Pass
161	5825	1.08	1.28	0.56	1.14	3.84	30	Pass

Note: 1. At finial test to get the worst-case emission at mcs0 for CH36, CH40 and CH48

2. The result basic equation calculation as follow:

Average Power Output = AV Power Reading + Cable loss + Attenuator

3. The worse case was recorded

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11ac VHT40	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Ant 2		Ant 1		Total Power-MIMO (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
38	5190	-5.34	0.29	-5.58	0.28	-2.45	24	Pass
46	5230	-6.02	0.25	-6.27	0.24	-3.13	24	Pass
151	5755	-4.26	0.37	-4.52	0.35	-1.38	30	Pass
159	5795	-1.64	0.69	-1.91	0.64	1.24	30	Pass

Note: 1. At finial test to get the worst-case emission at mcs0 for CH38 and CH46
2. The result basic equation calculation as follow:
Average Power Output = AV Power Reading + Cable loss + Attenuator
3. The worse case was recorded

EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11ac VHT80	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Ant 2		Ant 1		Total Power-MIMO (dBm)	Limit (dBm)	Pass/ Fail
		dBm	mW	dBm	mW			
42	5210	-8.31	0.15	-8.61	0.14	-5.45	24	Pass
155	5775	-5.35	0.29	-5.66	0.27	-2.49	30	Pass

Note: 1. At finial test to get the worst-case emission at mcs0 s for CH42
2. The result basic equation calculation as follow:
Average Power Output = AV Power Reading + Cable loss + Attenuator
3. The worse case was recorded

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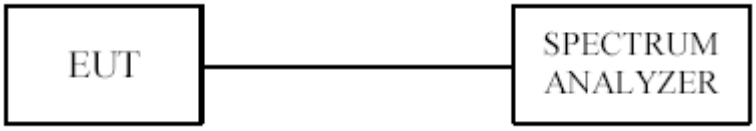
9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Client device	11dBm/MHz
U-NII-2A	--		11dBm/MHz
U-NII-2C	--		11dBm/MHz
U-NII-3	--		30dBm/500kHz

9.3 Test Procedure

1. The EUT was directly connected to the spectrum analyzer
2. Set the RBW = 1MHz.
3. Set the VBW =3MHz.
4. Set the span to encompass the entire emissions bandwidth (EBW) of the signal
5. Detector = RMS
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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9.4Test Result

EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11a 6Mbps	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
36	5180	-8.18	11	Pass
40	5200	-8.42	11	Pass
48	5240	-8.77	11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail
149	5745	-8.78	30	Pass
153	5765	-7.29	30	Pass
161	5825	-4.53	30	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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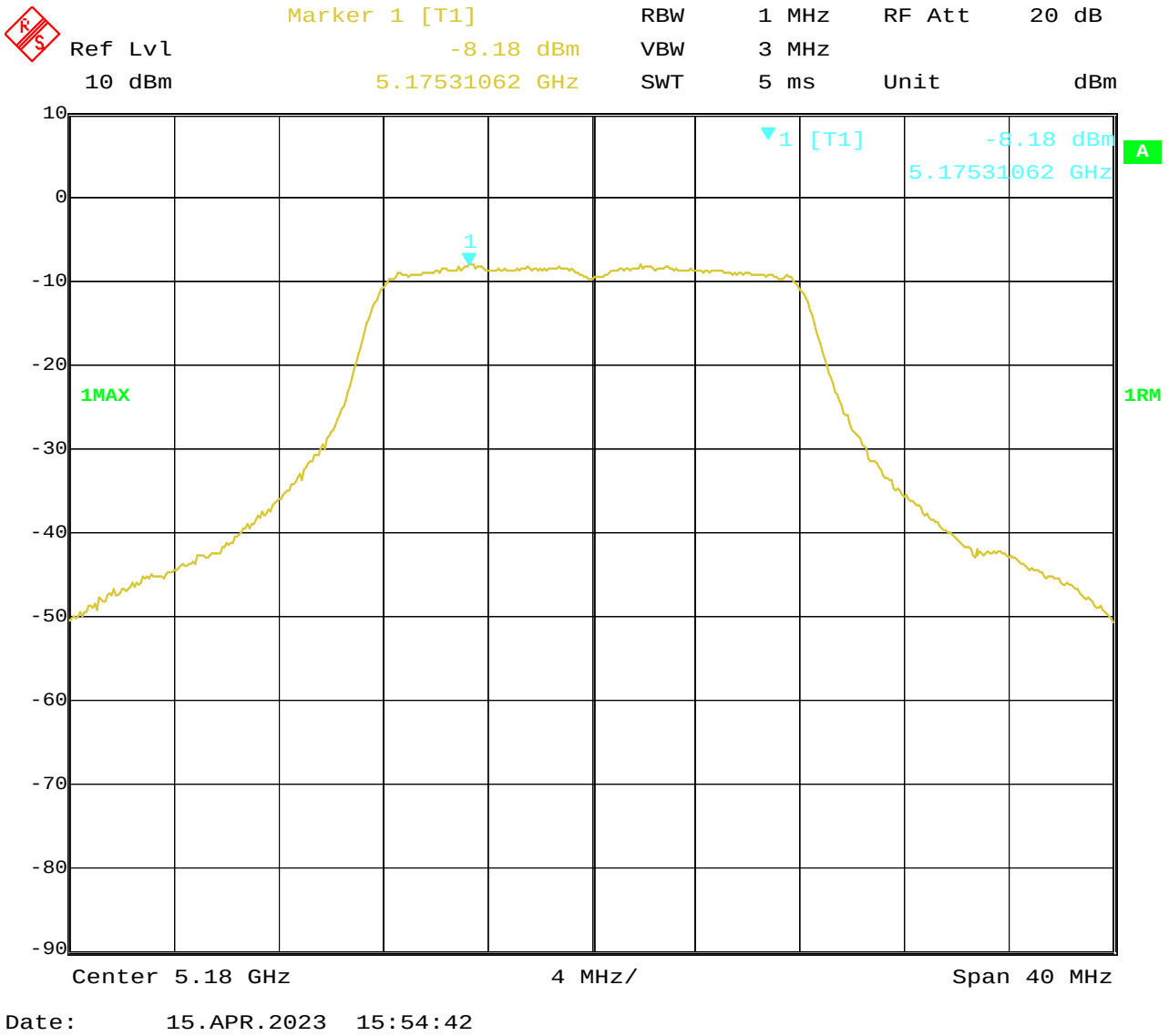
9.5 Plots of Power Spectral Density Measurement

1.802.11a at 6Mbps of CH36



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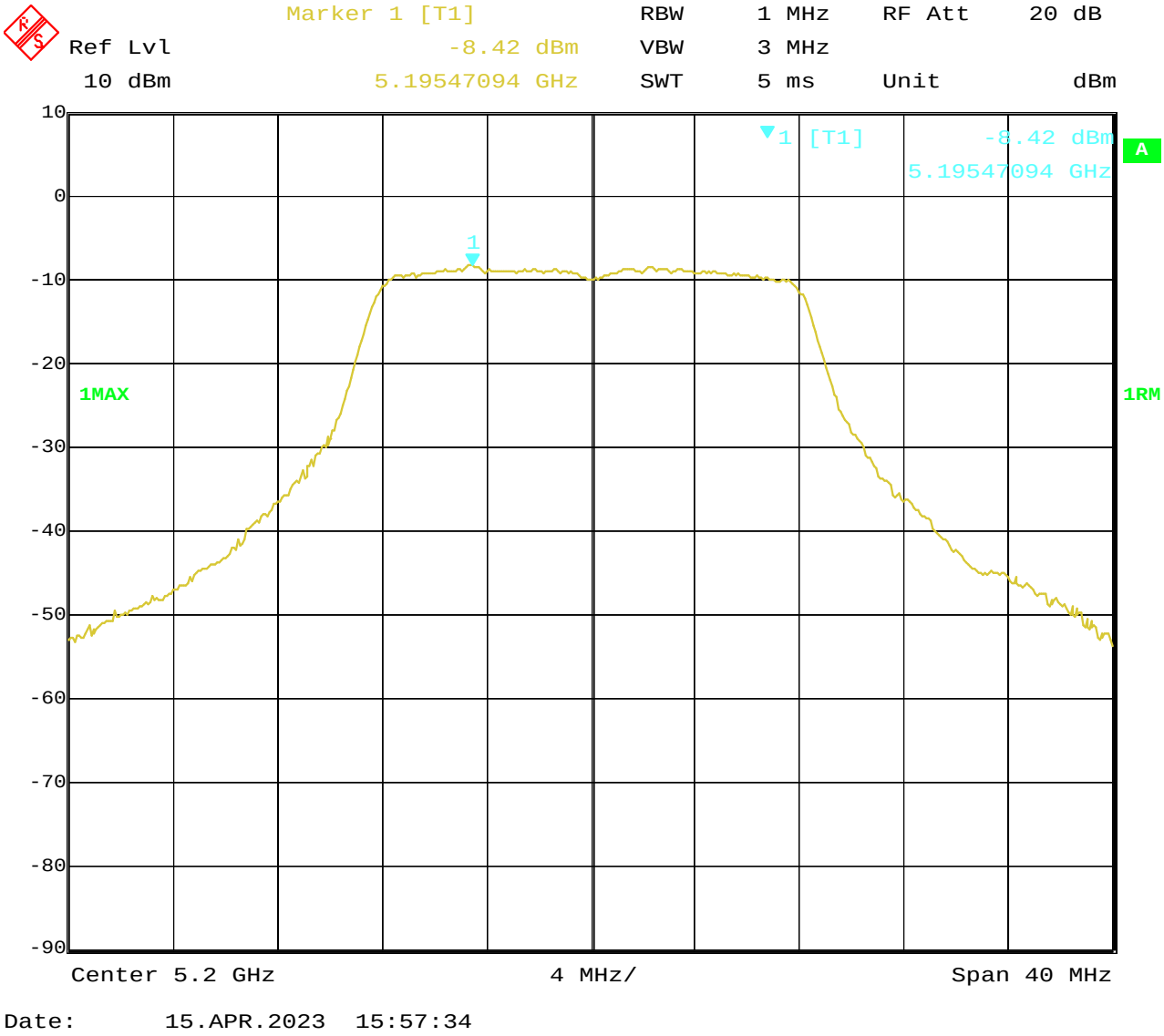
2.802.11a at 6Mbps of CH40



Date: 15.APR.2023 15:57:34

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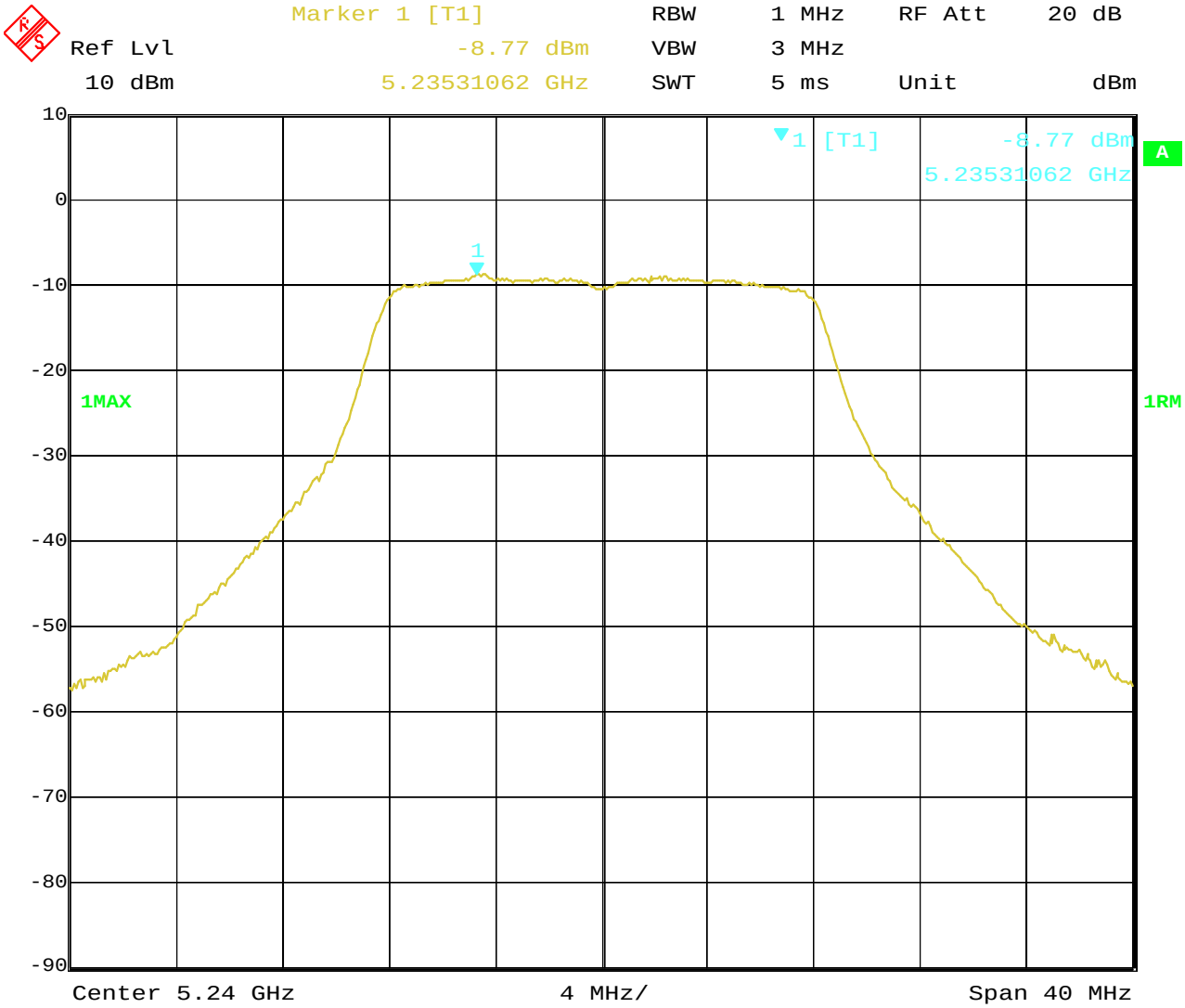
3.802.11a at 6Mbps of CH48



Date: 15.APR.2023 16:01:06

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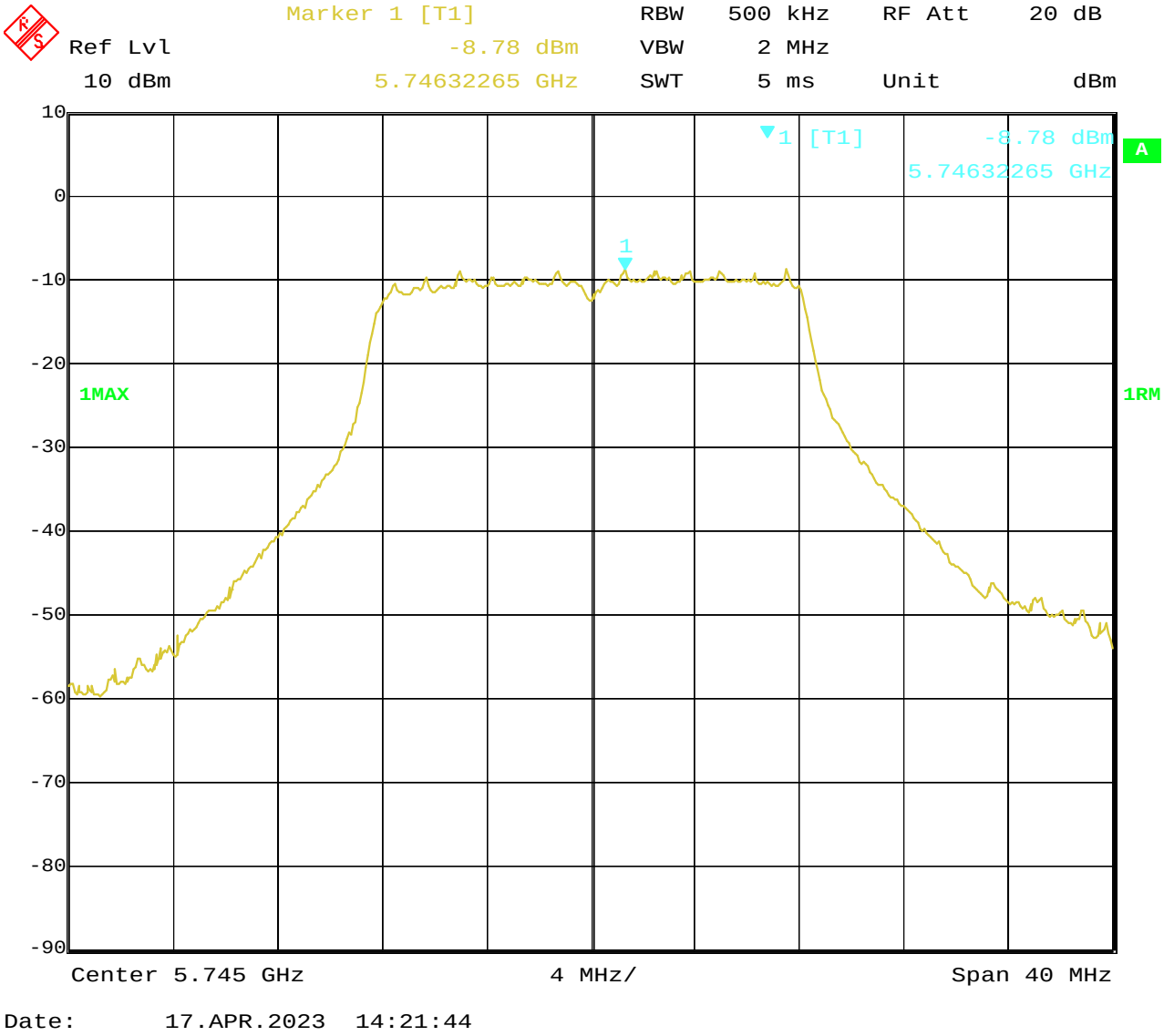
4.802.11a at 6Mbps of CH149



Date: 17.APR.2023 14:21:44

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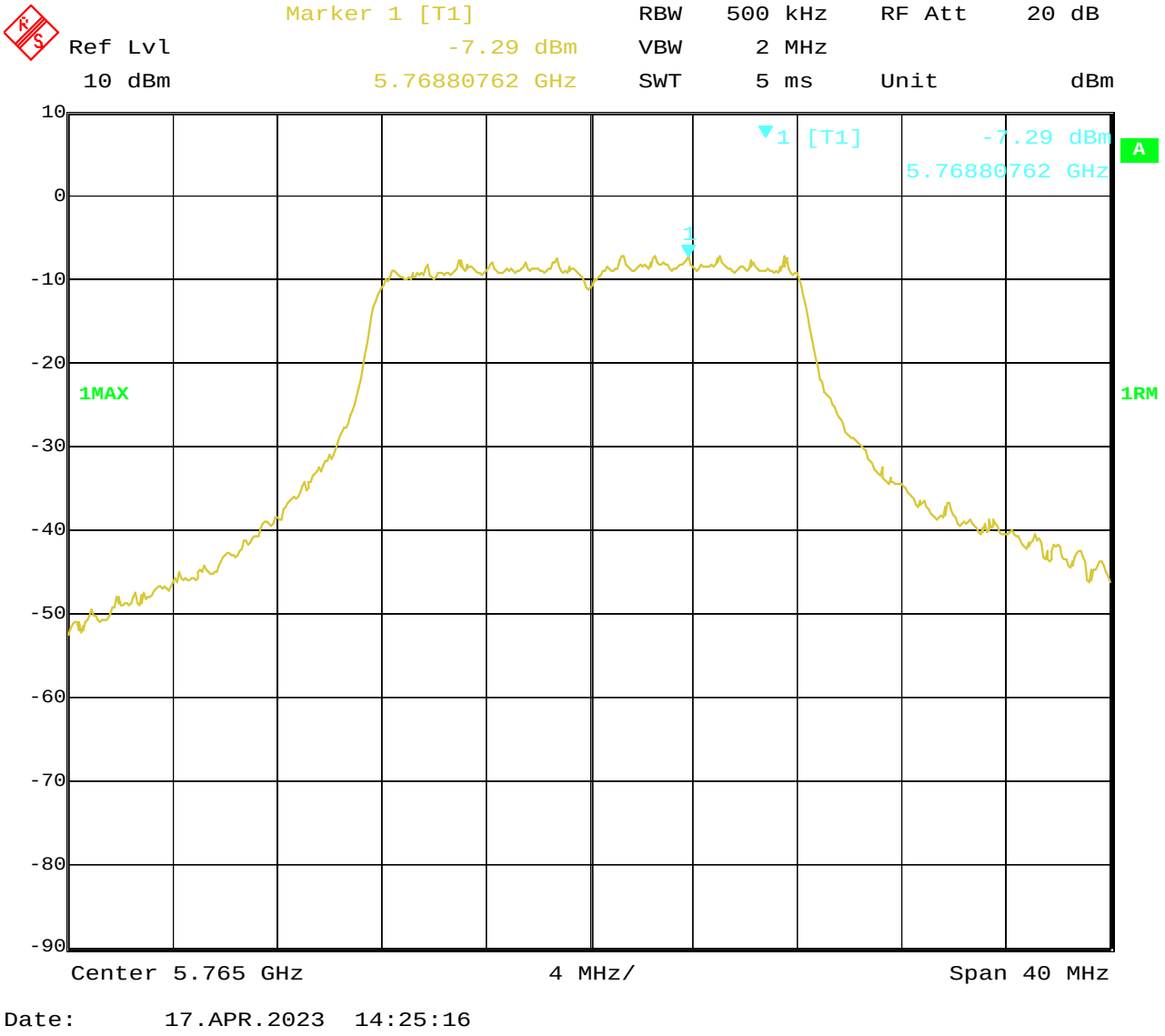
5.802.11a at 6Mbps of CH153



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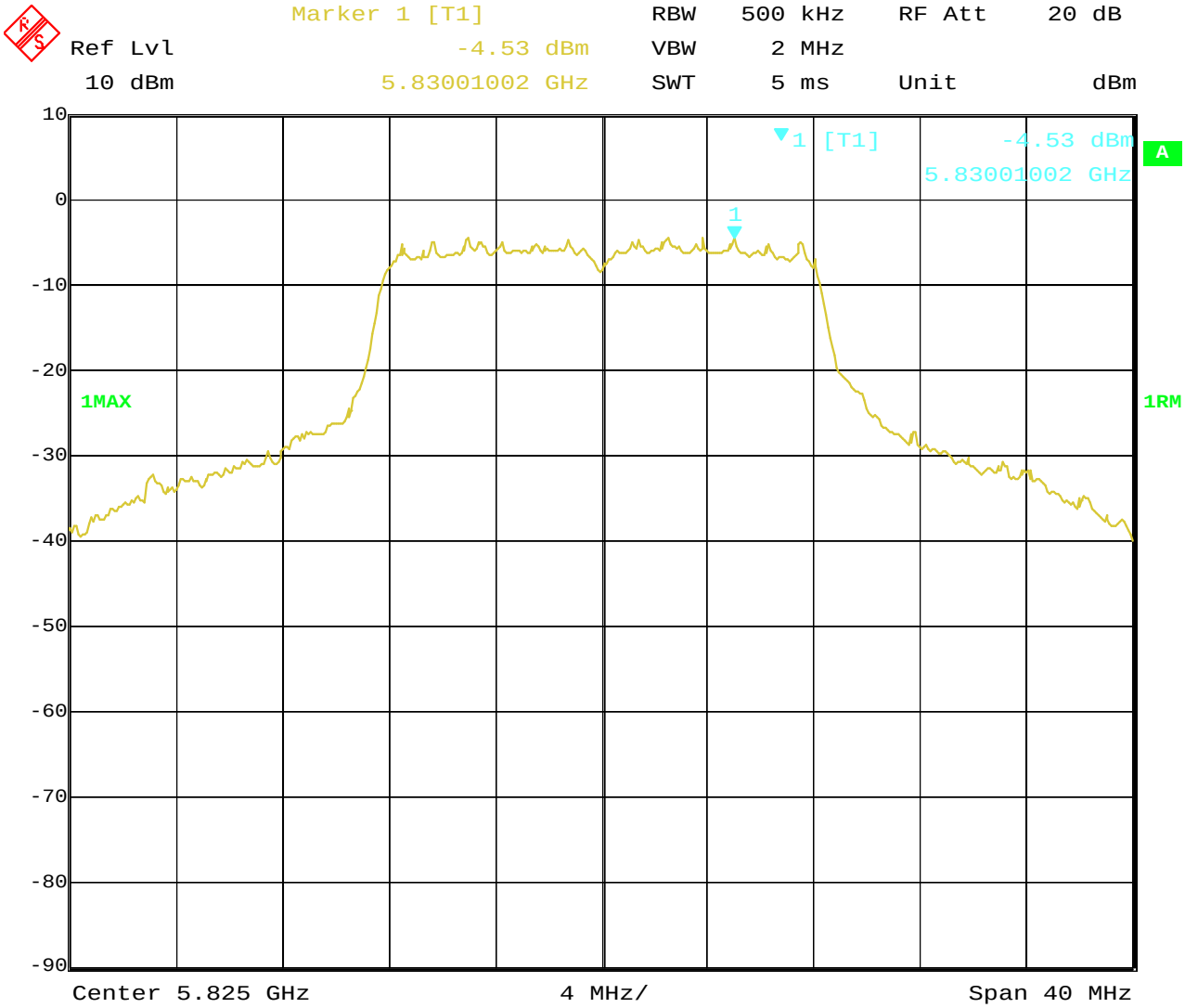
6.802.11a at 6Mbps of CH161



Date: 17.APR.2023 14:27:34

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11n HT20 mcs0	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

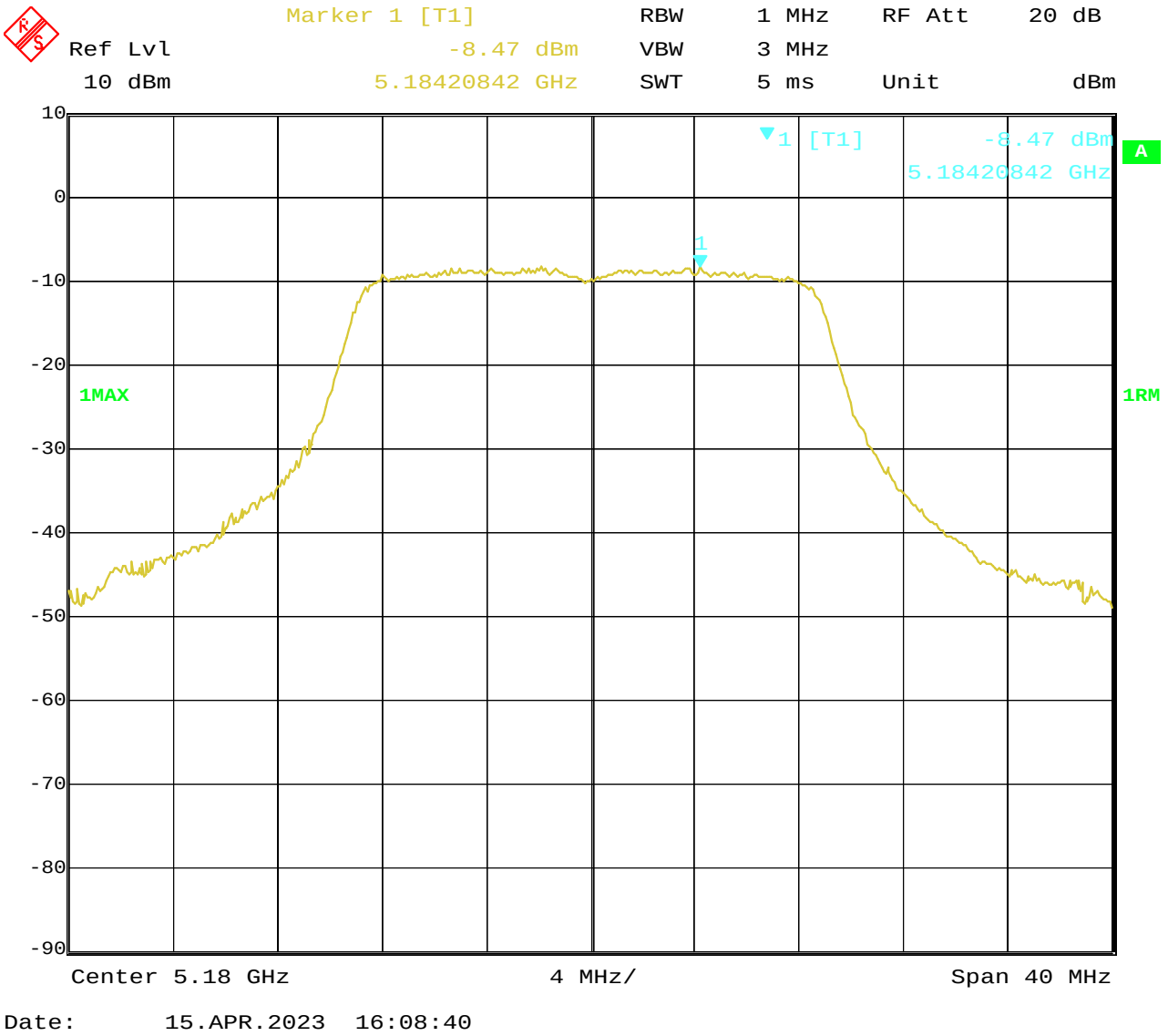
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm)	Pass/ Fail
36	5180	-8.47	3.01	-5.46	11	Pass
40	5200	-8.69	3.01	-5.68	11	Pass
48	5240	-9.20	3.01	-6.19	11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm)	Pass/ Fail
149	5745	-8.69	3.01	-5.68	30	Pass
153	5765	-6.99	3.01	-3.98	30	Pass
161	5825	-4.59	3.01	-1.58	30	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

The report refers only to the sample tested and does not apply to the bulk.
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

Test Plots

1.802.11n at mcs0 of CH36



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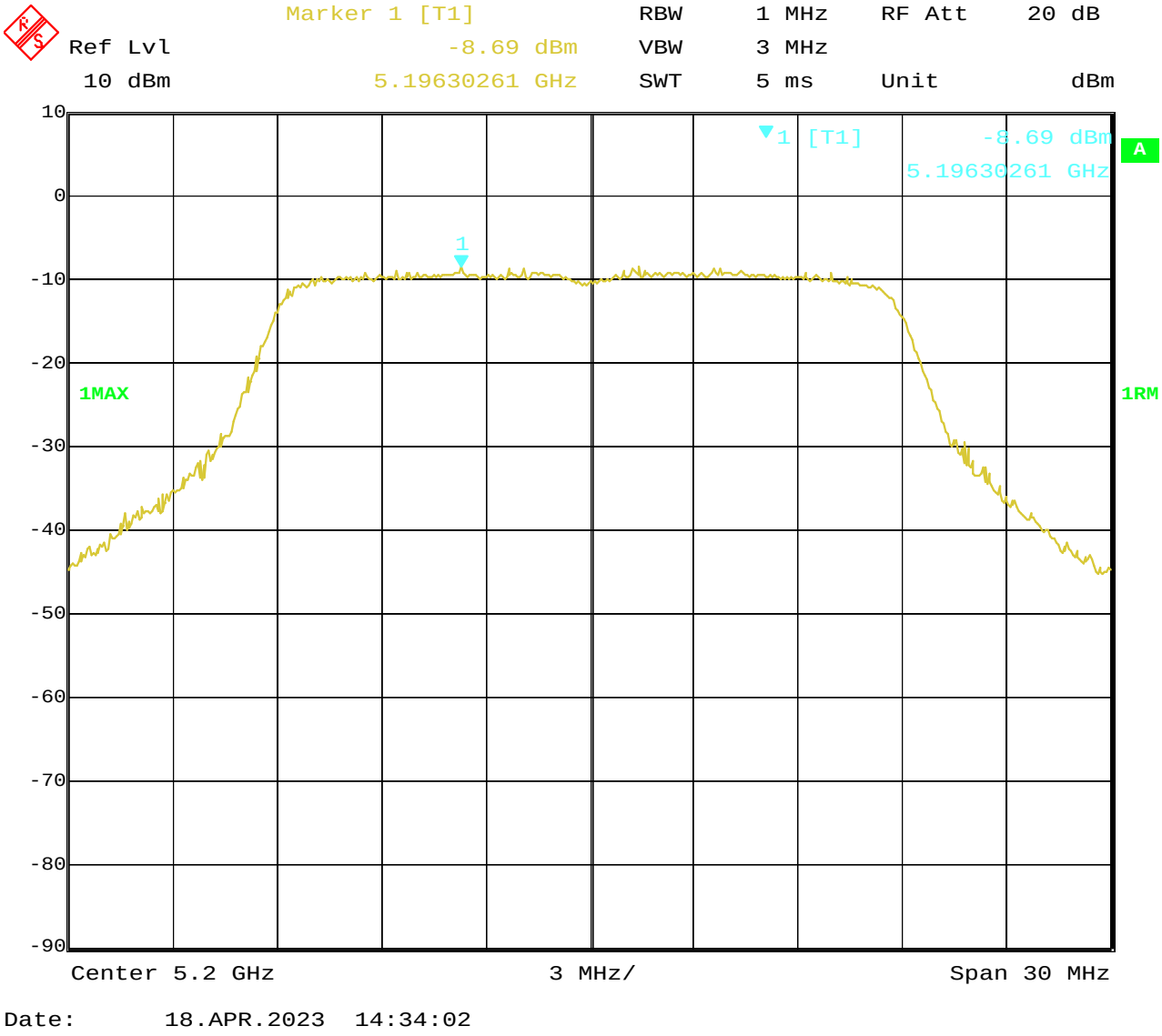
2.802.11n at mcs0 of CH40



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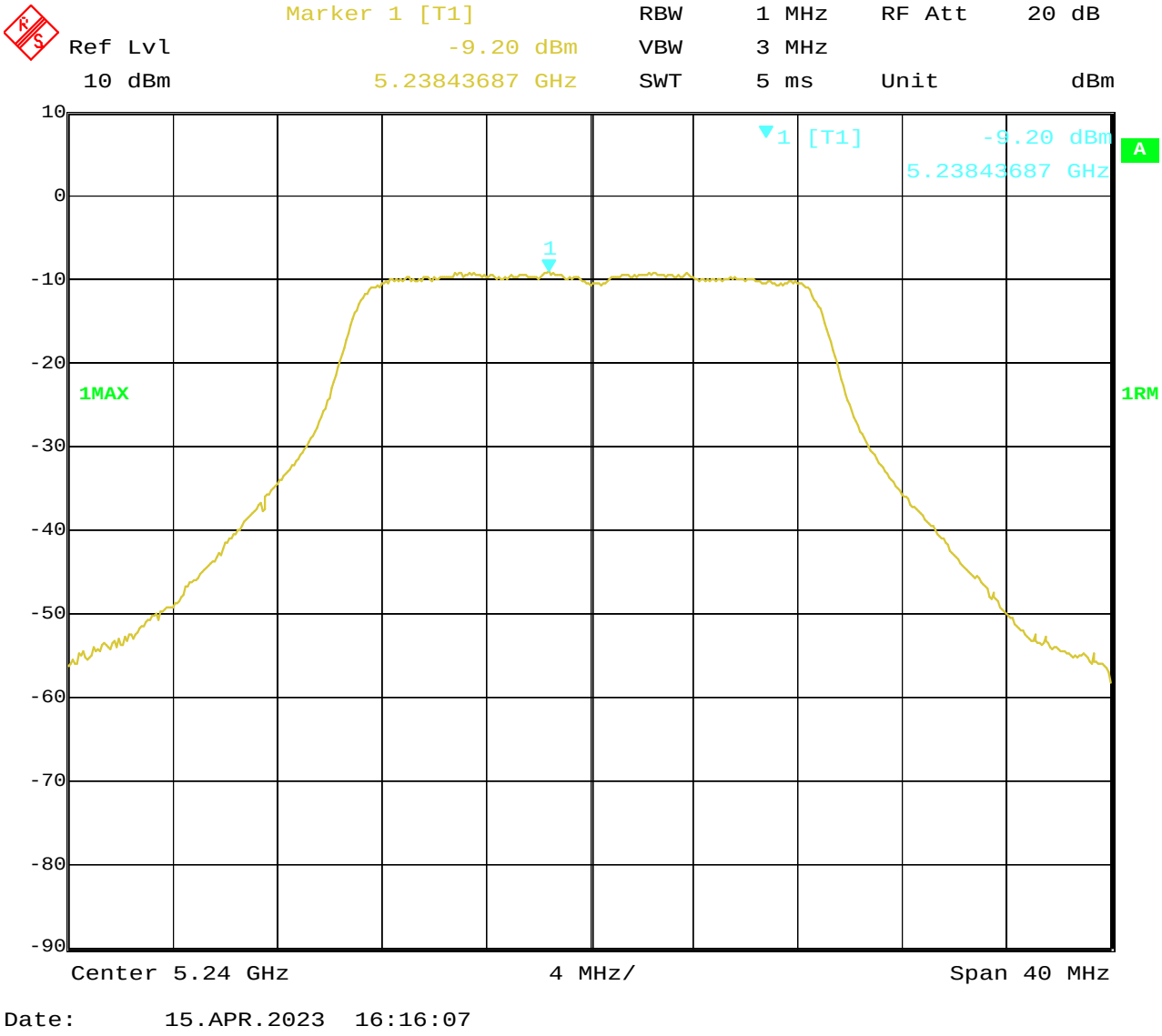
3.802.11n at mcs0 of CH48



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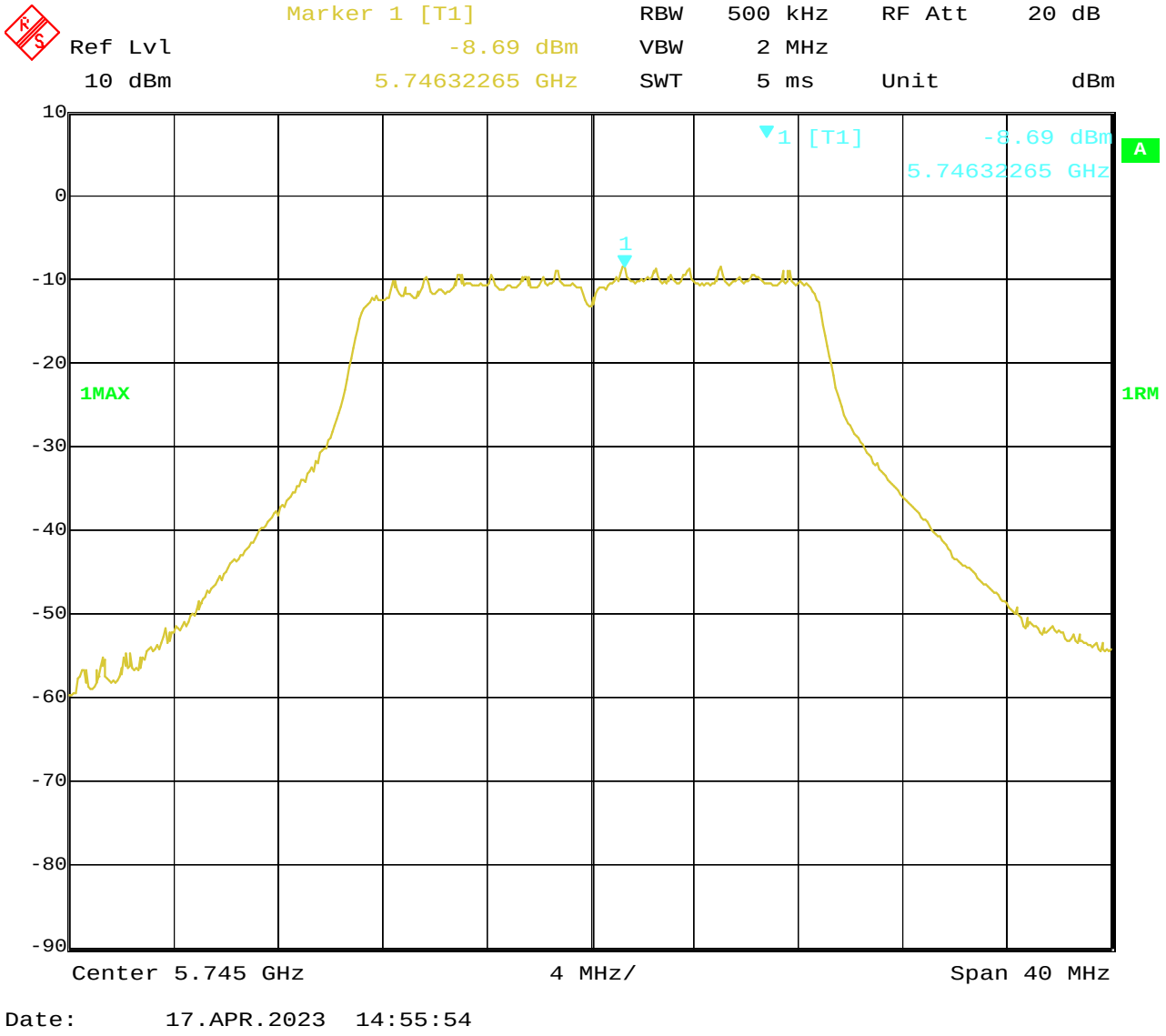
4.802.11n at mcs0 of CH149



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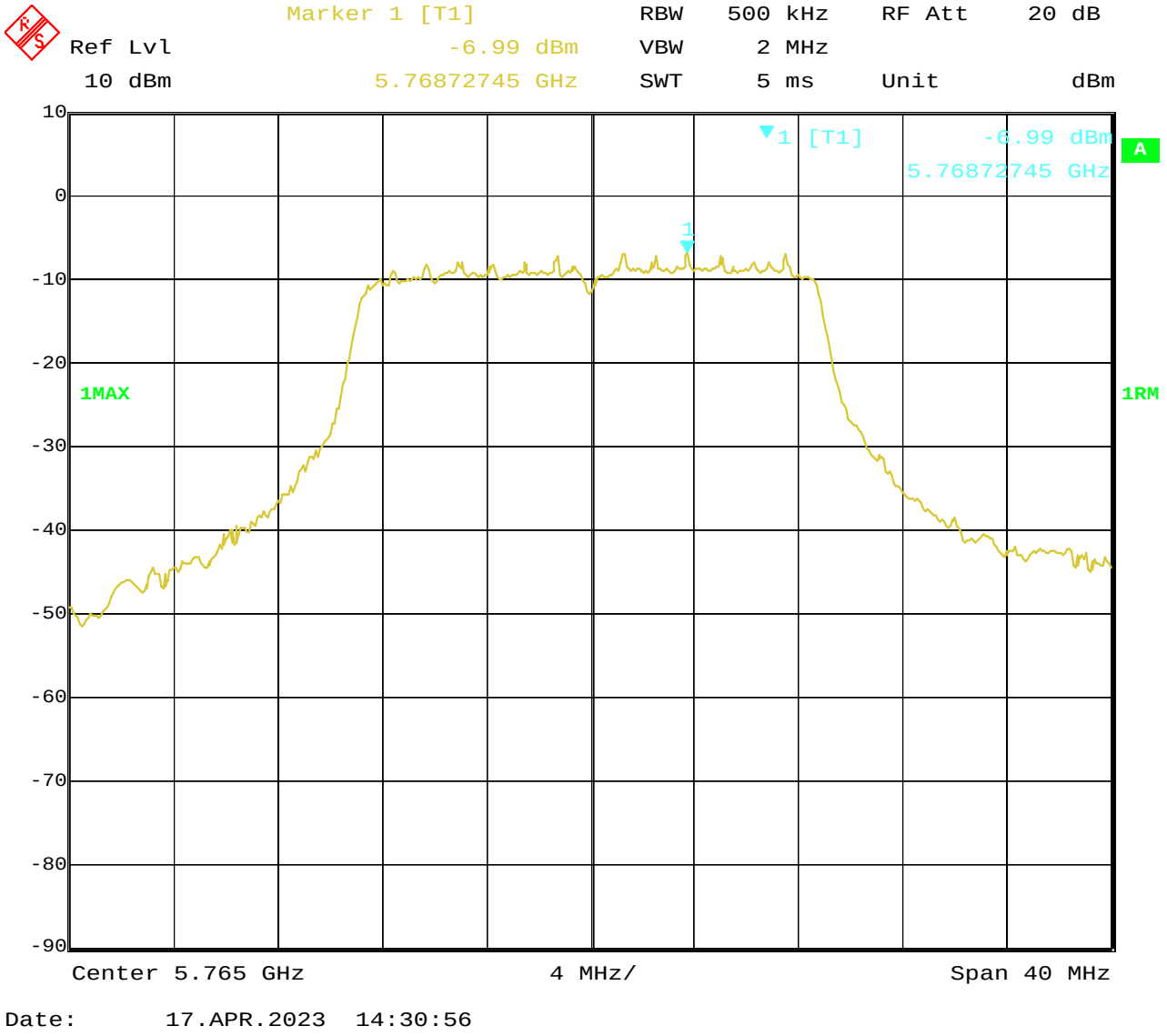
5.802.11n at mcs0 of CH153



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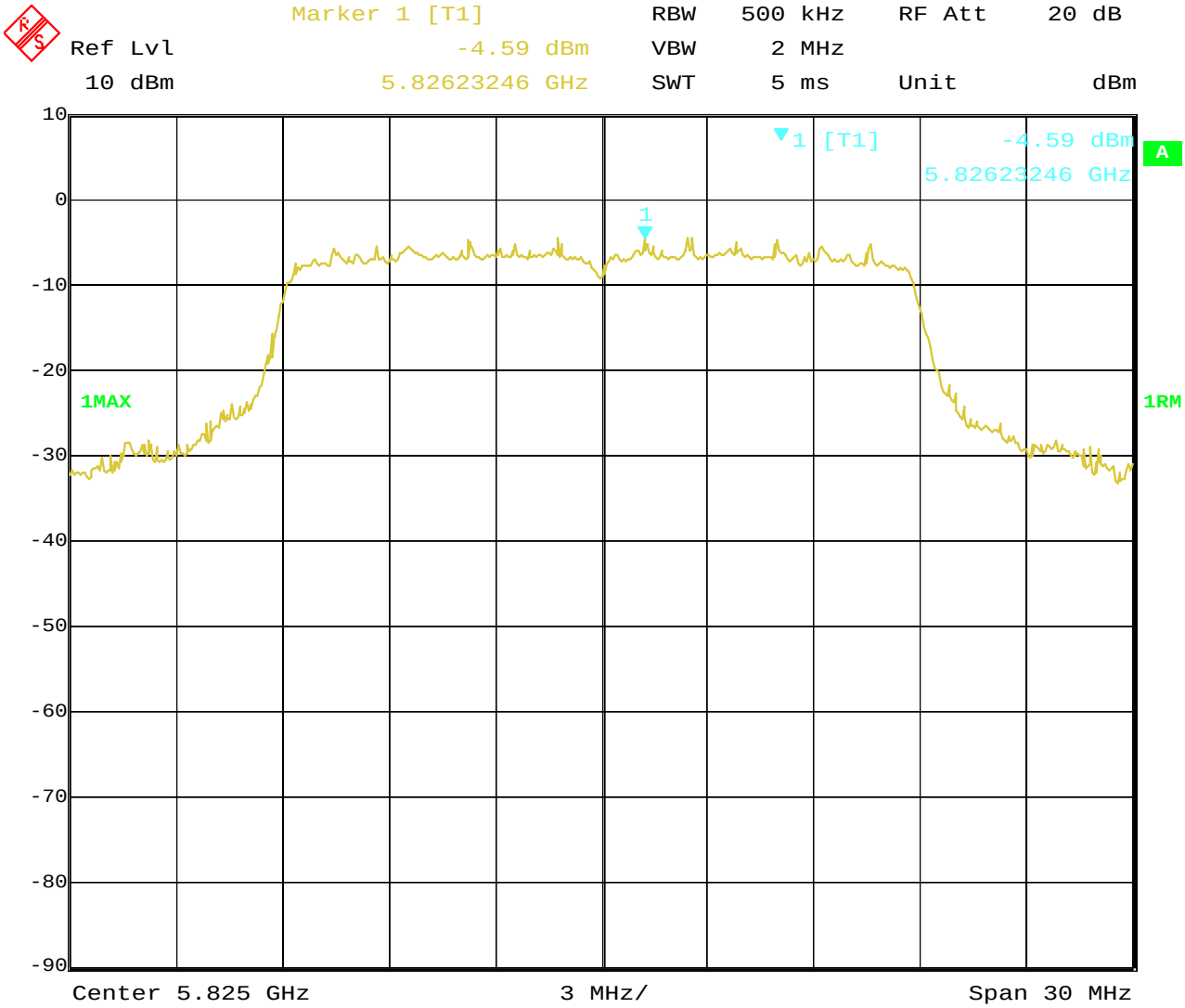
6.802.11n at mcs0 of CH161



Date: 18.APR.2023 14:34:55

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11n HT40 mcs0	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
38	5190	-10.86	3.01	-7.85	11	Pass
46	5230	-11.27	3.01	-8.26	11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail
151	5755	-10.05	3.01	-10.04	30	Pass
159	5795	-7.42	3.01	-4.41	30	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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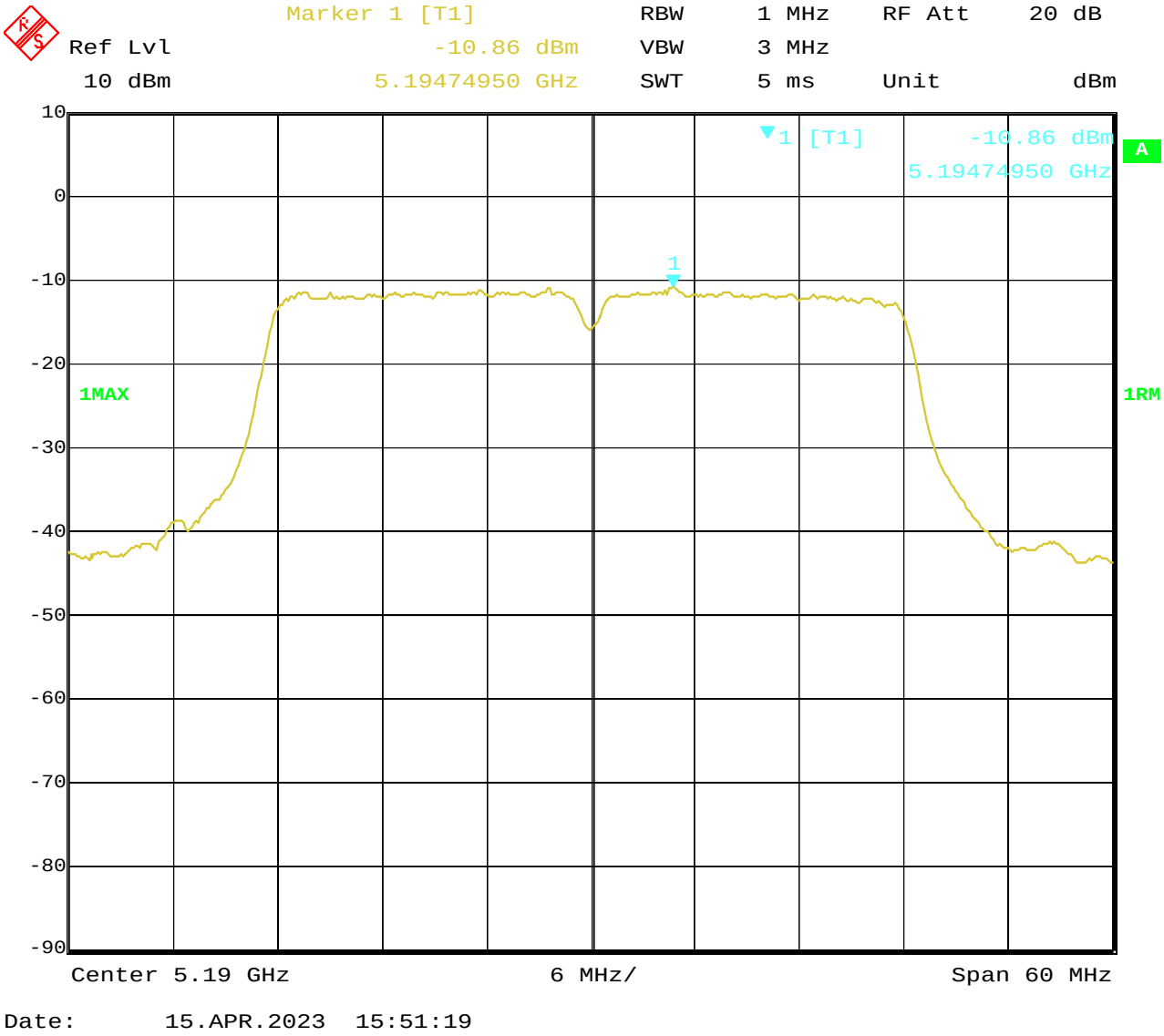
Test Plots

1.802.11n HT40 at mcs0 of CH38



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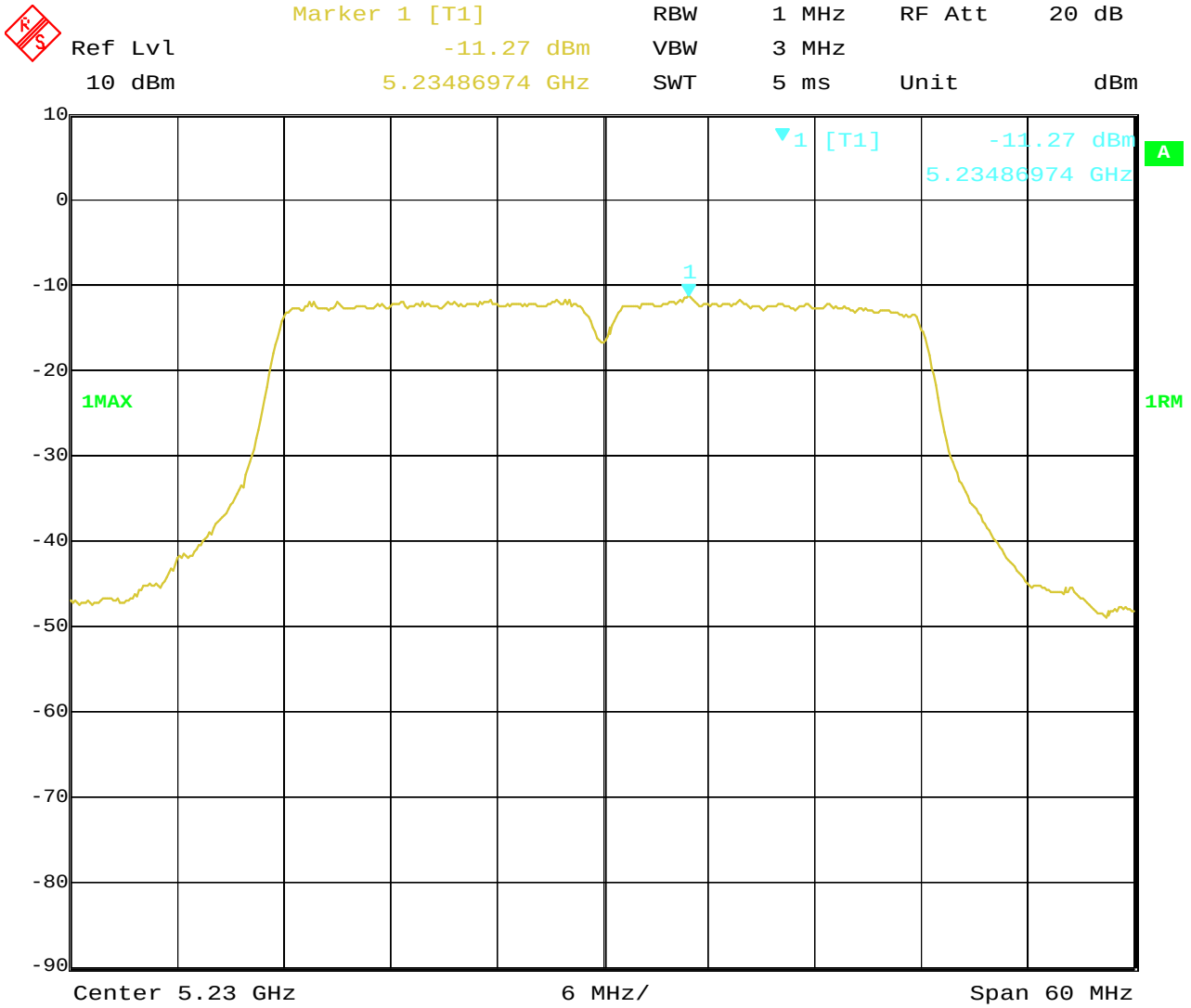
2.802.11n HT40 at mcs0 of CH46



Date: 15.APR.2023 15:46:33

The report refers only to the sample tested and does not apply to the bulk.
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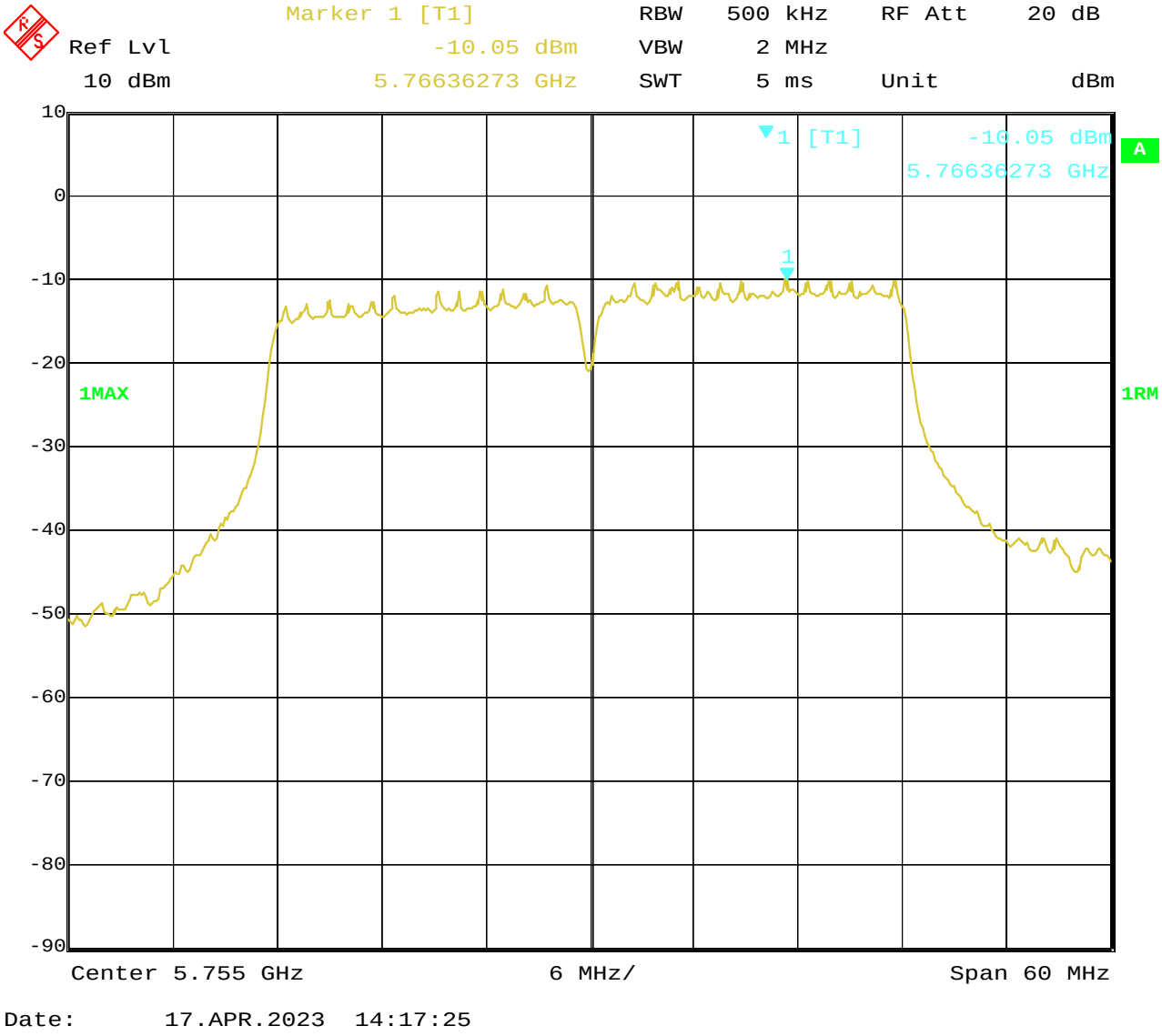
3.802.11n HT40 at mcs0 of CH151



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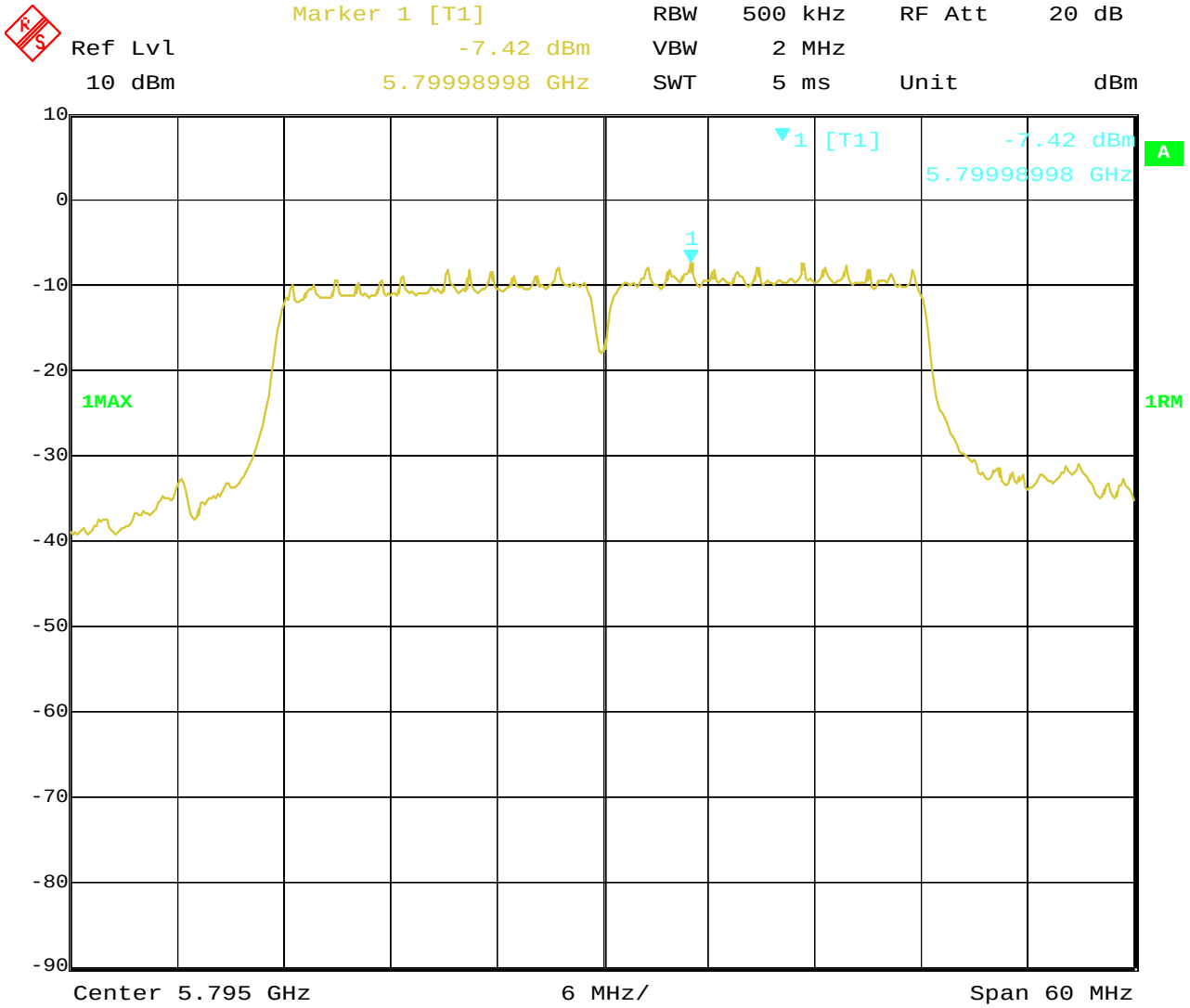
4.802.11n HT40 at mcs0 of CH159



Date: 17.APR.2023 14:13:02

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11ac VHT20	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
36	5180	-8.19	3.01	-5.18	11	Pass
40	5200	-8.69	3.01	-5.68	11	Pass
48	5240	-9.56	3.01	-6.55	11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail
149	5745	-8.90	3.01	-5.89	30	Pass
153	5765	-7.26	3.01	-4.25	30	Pass
161	5825	-4.20	3.01	-1.19	30	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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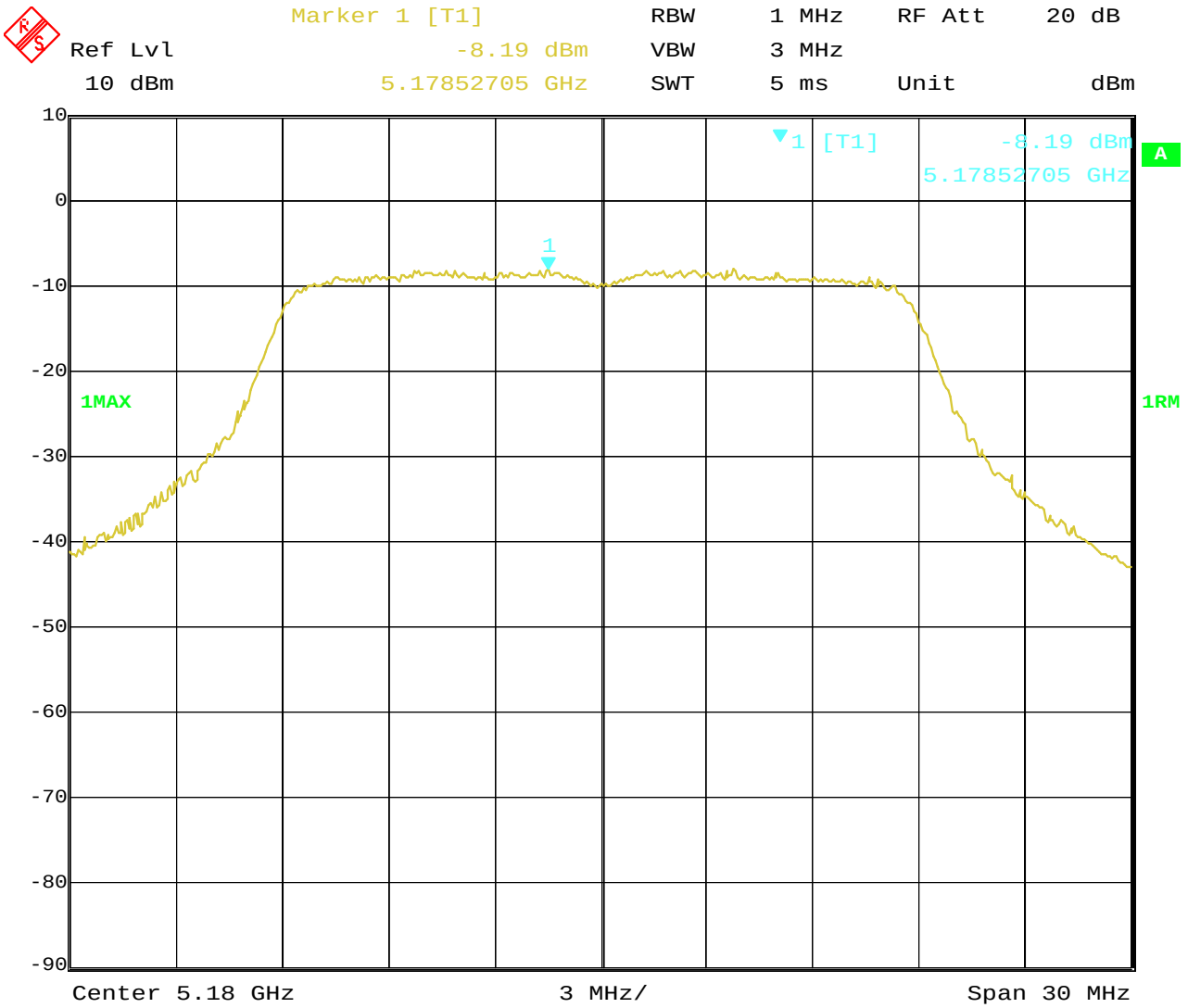
Test Plots

1.802.11ac at mcs0 of CH36



Date: 18.APR.2023 14:31:57

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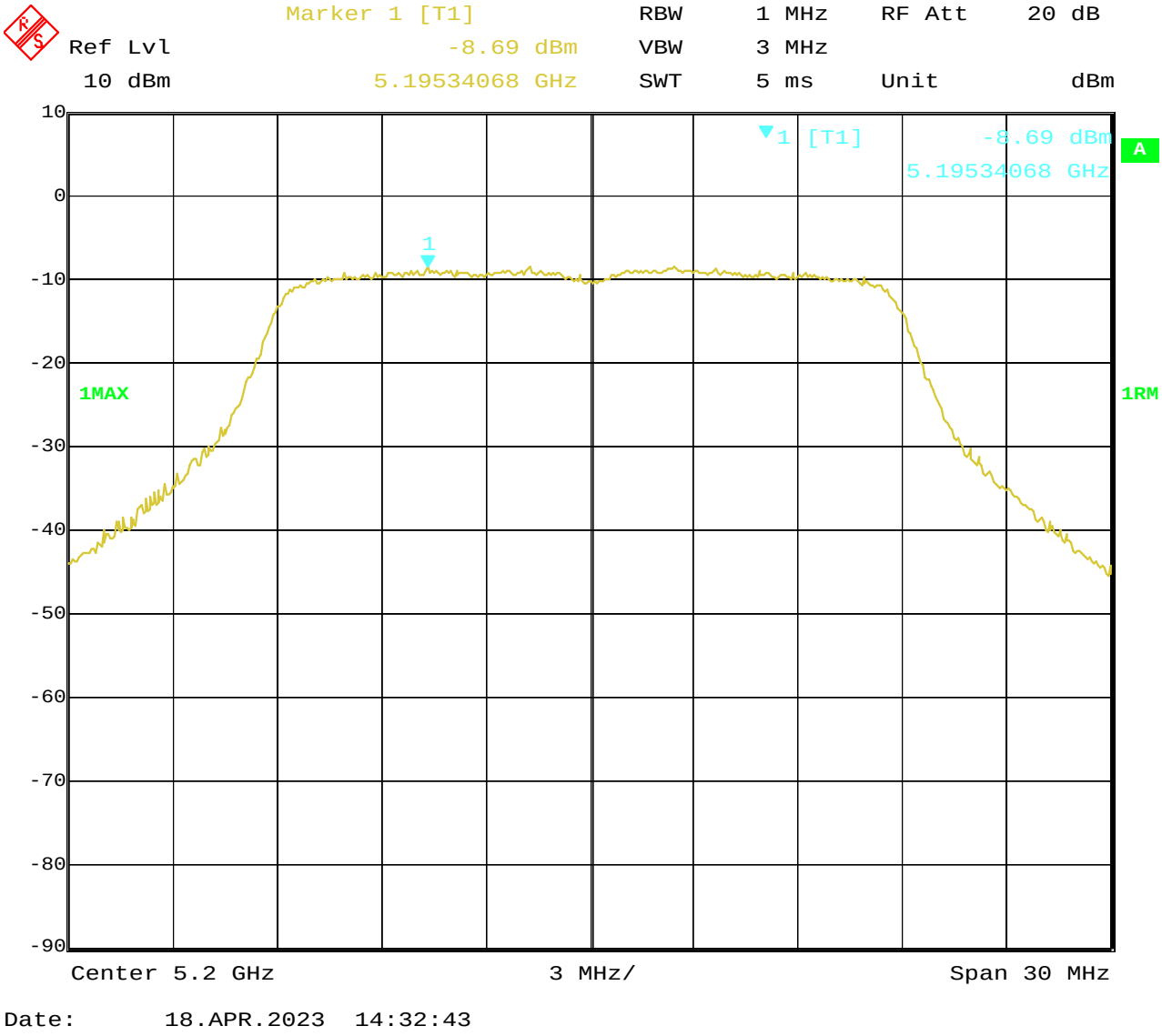
2.802.11ac at mcs0 of CH40



Date: 18.APR.2023 14:32:43

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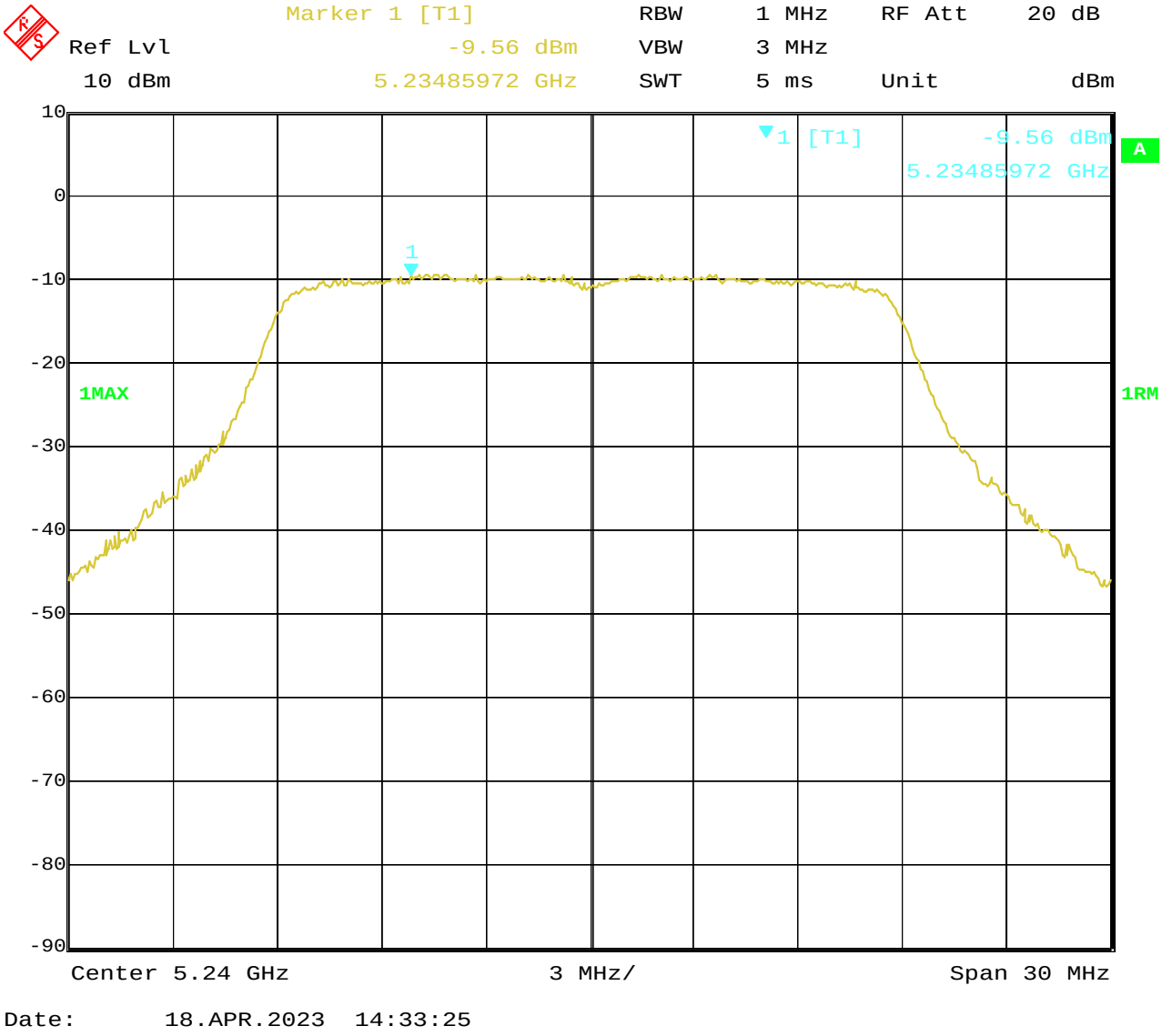
3.802.11ac at mcs0 of CH48



Date: 18.APR.2023 14:33:25

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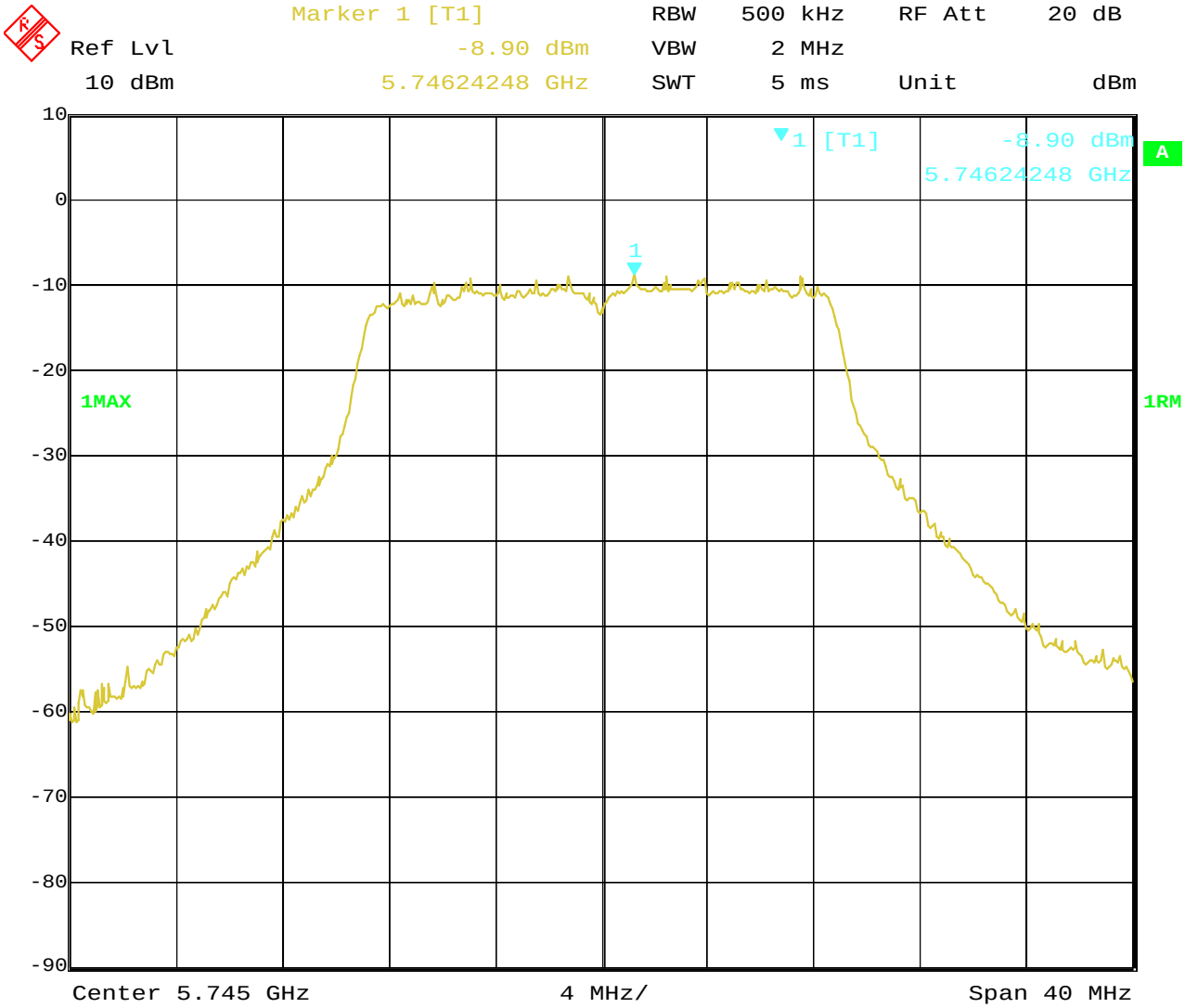
4.802.11ac at mcs0 of CH149



Date: 17.APR.2023 14:56:58

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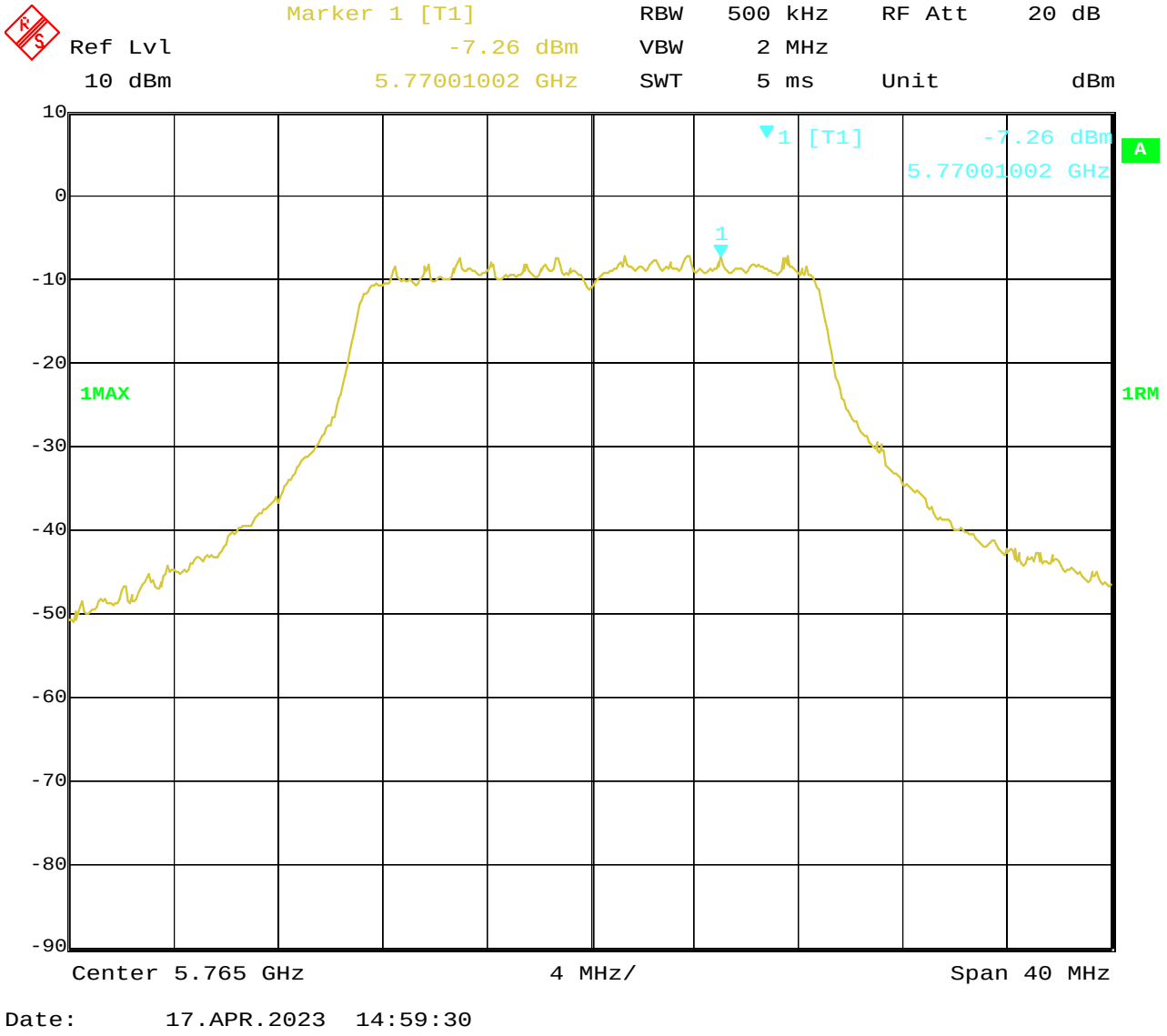
5.802.11ac at mcs0 of CH153



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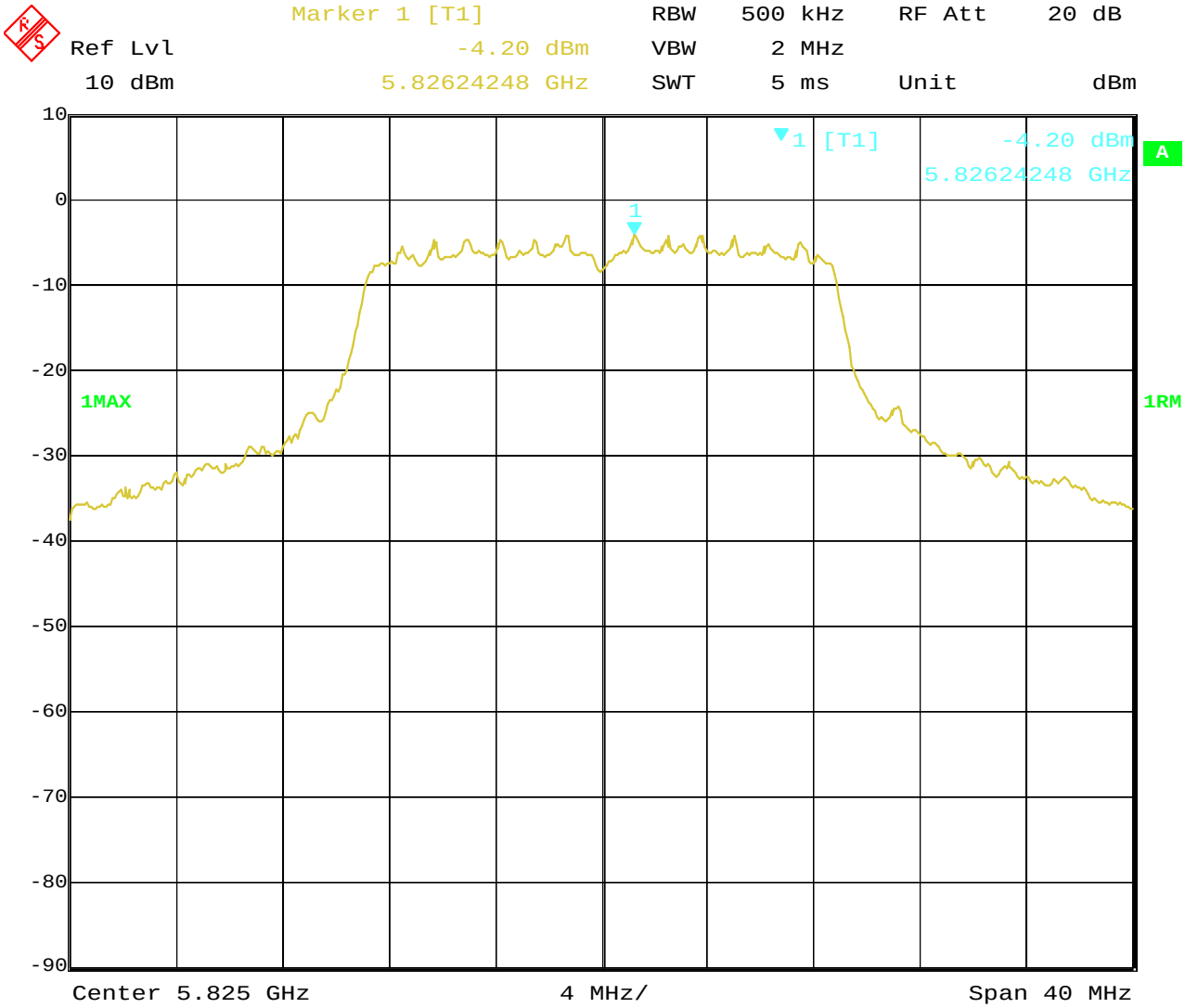
6.802.11ac at mcs0 of CH161



Date: 17.APR.2023 15:02:10

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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11ac VHT40	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
38	5190	-11.14	3.01	-8.13	11	Pass
46	5230	-11.78	3.01	-8.77	11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail
151	5755	-10.21	3.01	-7.20	30	Pass
159	5795	-7.60	3.01	-4.59	30	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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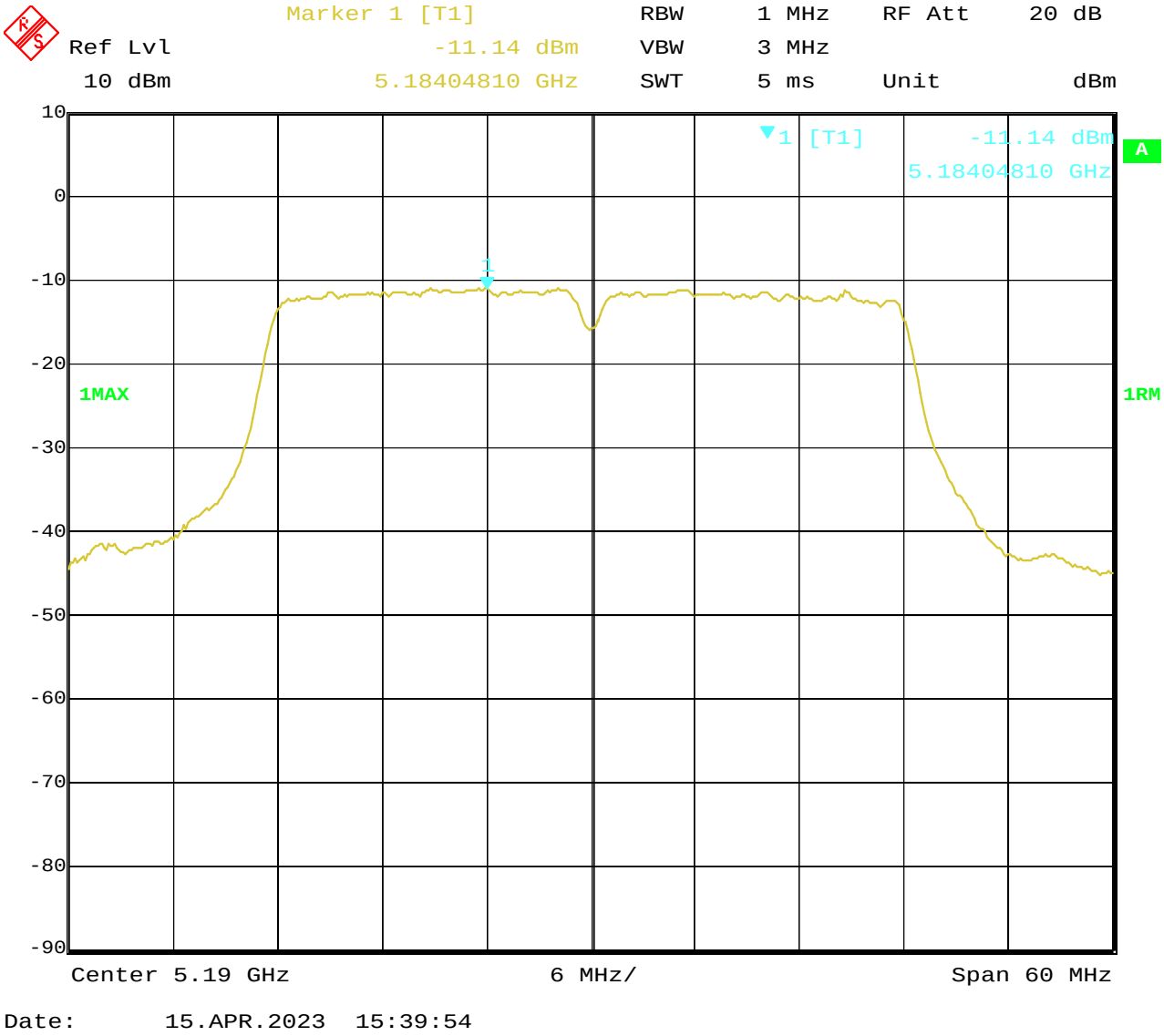
Test Plots

1.802.11ac at mcs0 of CH38



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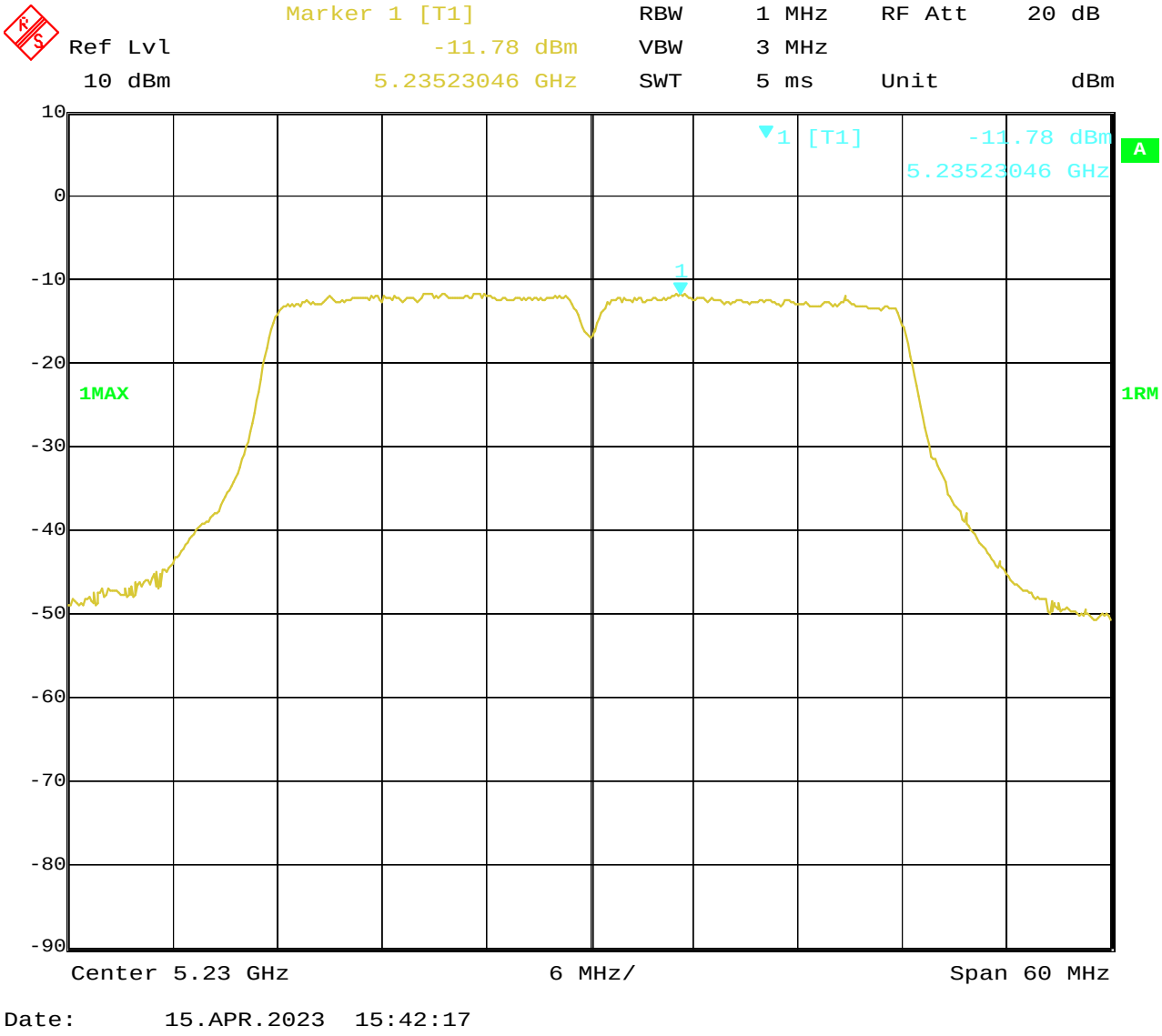
2.802.11ac at mcs0 of CH46



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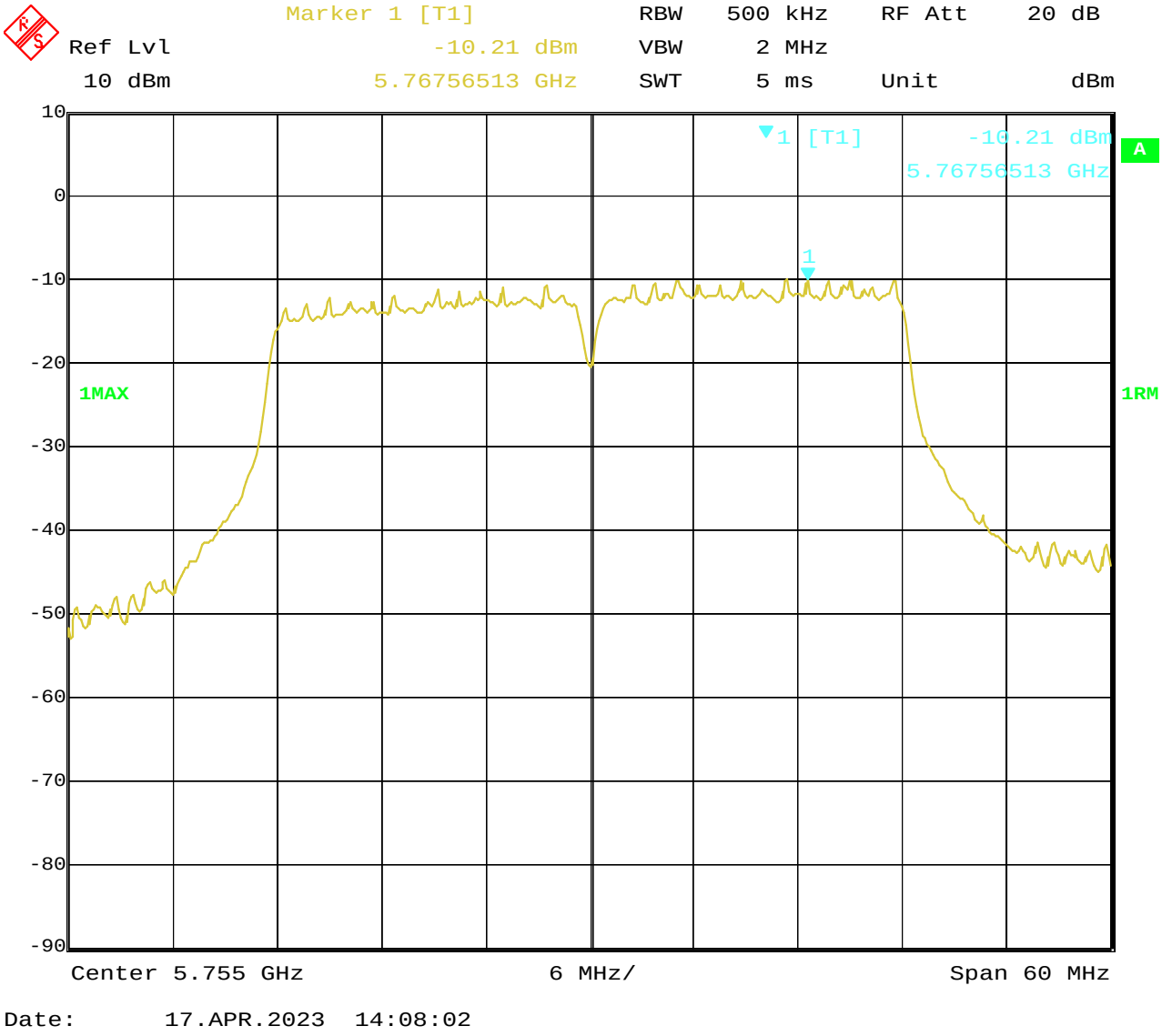
3.802.11ac at mcs0 of CH151



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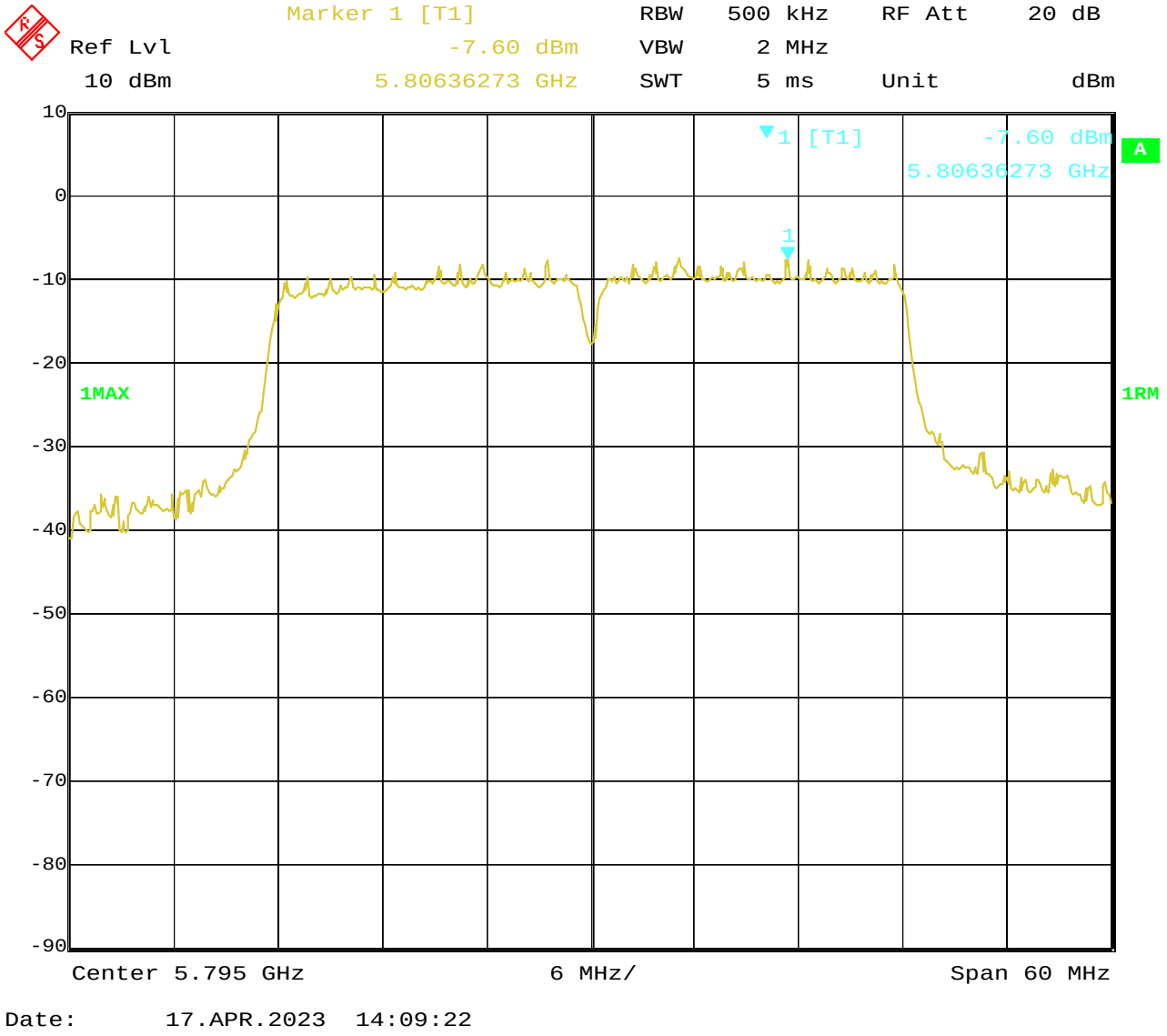
4.802.11ac at mcs0 of CH159



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EUT	YUELIU NBOX	Model	NBOX 2 Pro
Mode	802.11ac VHT80	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
42	5210	-14.24	3.01	-11.23	11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail
155	5775	-11.10	3.01	-8.09	30	Pass

Note: Two antennas (Ant 1 and Ant 2) were tested and only the worst cased was recorded in the test report. Ant 2 was the worst case.

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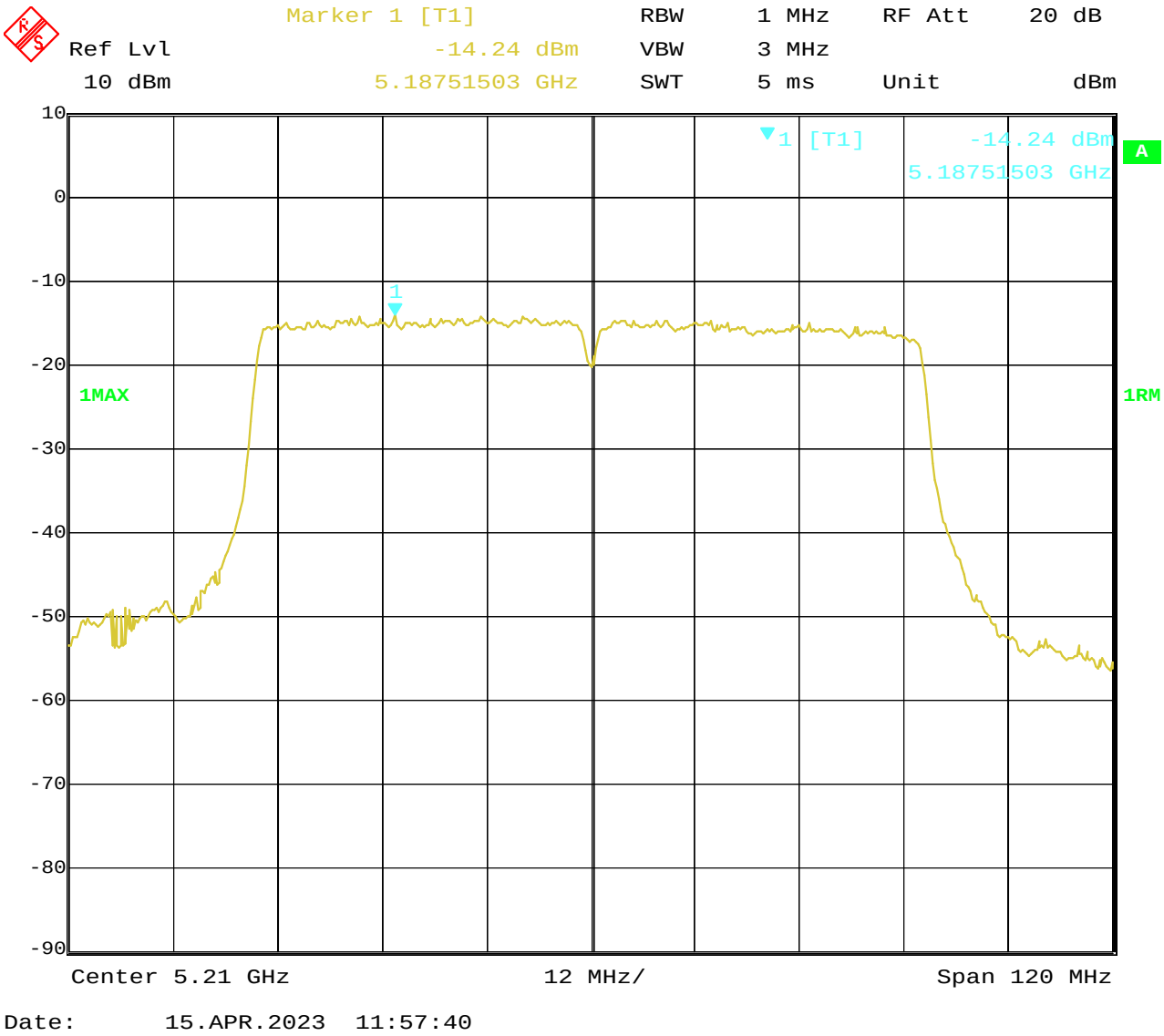
Test Plots

1.802.11ac at mcs0Mbps of CH42



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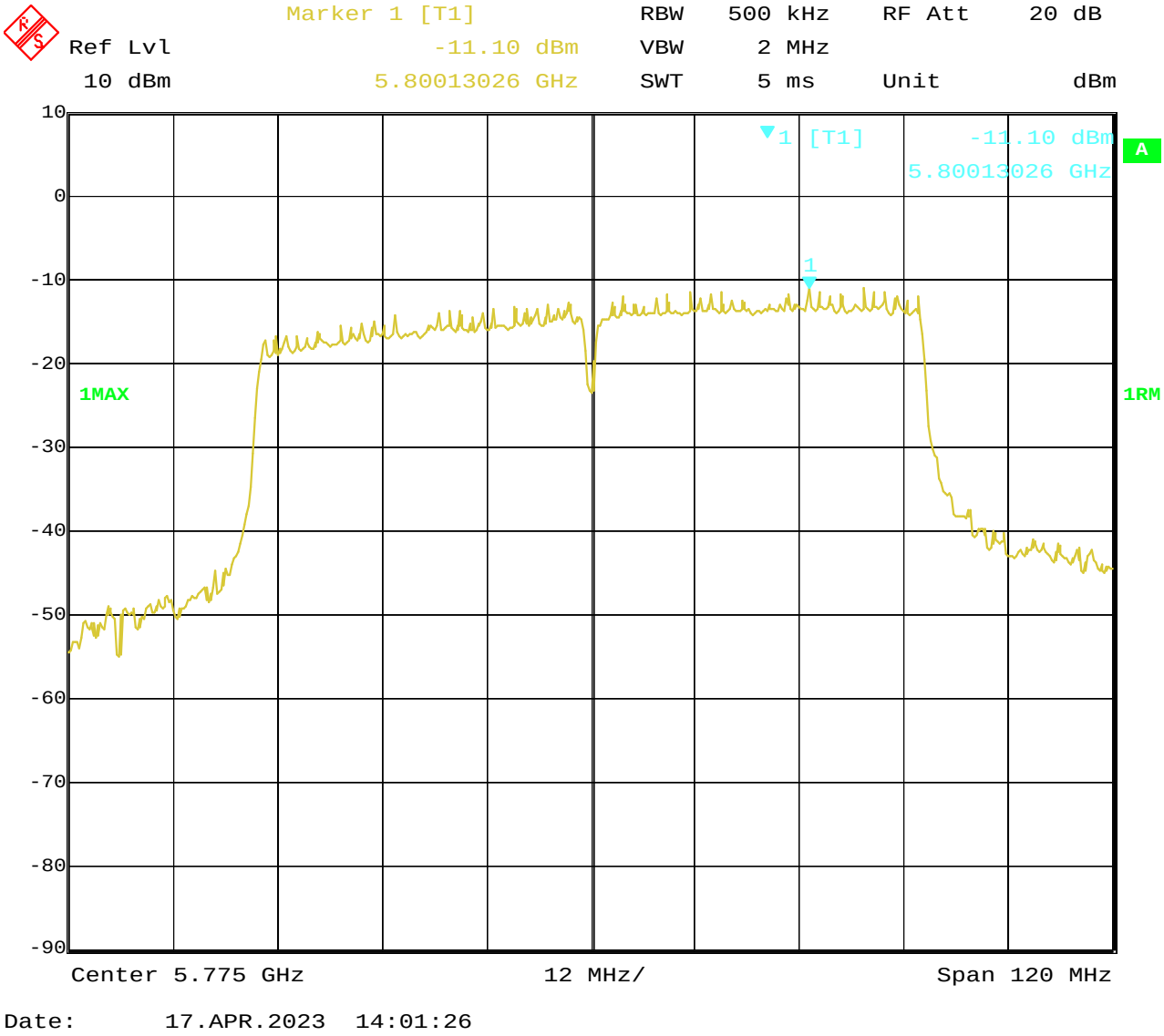
2.802.11ac at mcs0Mbps of CH155



Date: 17.APR.2023 14:01:26

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10.0 Frequency Stability

10.1 Limits of Frequency Stability Measurement

The frequency tolerance of the carrier signal shall be maintained within +/- 0.02% of the operating frequency over a temperature variation of –30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees

10.2 Test Procedure

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

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10.3 Test Result

Channel 36 (5180MHz)

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
120V	5180.0385
108V	5180.0392
132V	5180.0377
Max. Deviation (MHz)	0.0392
Max. Deviation (ppm)	7.57

Rated working voltage: 120V~

Temperature vs. Frequency Stability

Temperature（℃）	Measurement Frequency (MHz)
-30	5180.0381
-20	5180.0367
-10	5180.0359
0	5180.0378
10	5180.0386
20	5180.0376
30	5180.0375
40	5180.0387
50	5180.0390
Max. Deviation (MHz)	0.0390
Max. Deviation (ppm)	7.53

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Channel 149 (5745MHz)

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
3.85V	5745.0463
3.3V	5745.0451
4.2V	5745.0449
Max. Deviation (MHz)	0.0463
Max. Deviation (ppm)	8.06

Rated working voltage: 120V~

Temperature vs. Frequency Stability

Temperature（℃）	Measurement Frequency (MHz)
-30	5745.0452
-20	5745.0439
-10	5745.0441
0	5745.0460
10	5745.0439
20	5745.0451
30	5745.0437
40	5745.0446
50	5745.0453
Max. Deviation (MHz)	0.0460
Max. Deviation (ppm)	8.01

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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Two FPC antenna used. The maximum Gain is 2.62dBi for each one.

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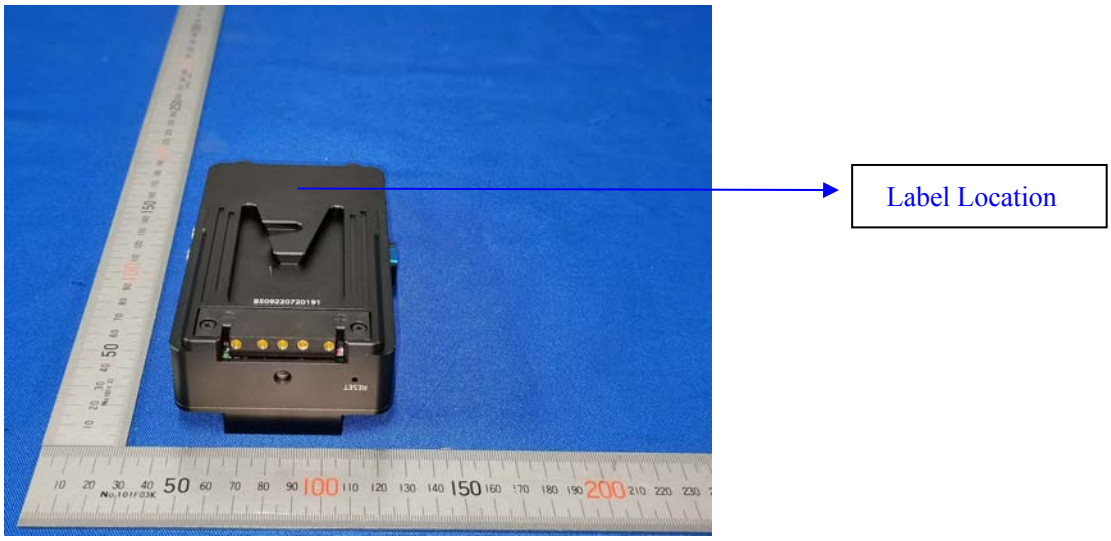
12.0 FCC Label

FCC ID: 2BAZV-NBOX2PRO

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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13.0 Photo of testing

Conducted Emission Test Setup:

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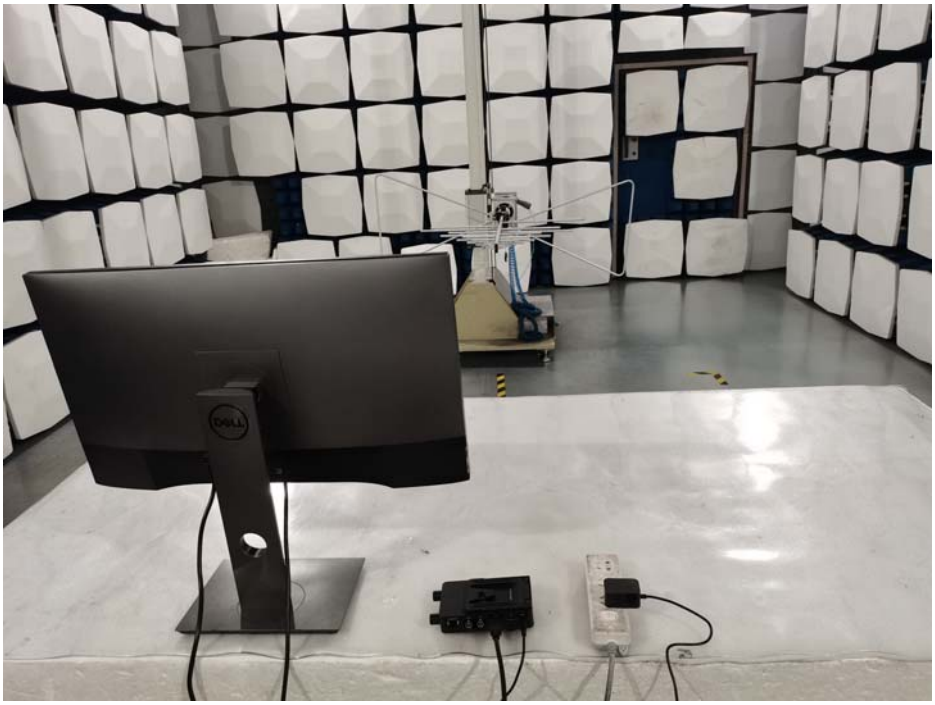
Radiated Emission Test Setup:



Photos of EUT

Please see test report TW2303280-01E

--End of the report--

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