TEST REPORT

Report No:	TW2203329-04E
File reference No:	2022-05-10

Applicant:	Shenzhen Jingwah Information Technology Co., Ltd.
Product:	Tablet PC
Model No:	K13
Trademark:	TechPad
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 regulations for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: May 10, 2022

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 17025:2005 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

For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.

Address: 6F, Bldg.4, Jinghua Square, No. 168, Zhenzhong Rd., Fuqiang Community, Huaqiangbei, Futian District, Shenzhen

Telephone: --

Fax: --

1.3 Description of EUT

Product:	Tablet PC
Manufacturer:	Shenzhen Jingwah Information Technology Co., Ltd.
Address:	6F, Bldg.4, Jinghua Square, No. 168, Zhenzhong Rd., Fuqiang Community, Huaqiangbei, Futian District, Shenzhen
Trademark:	TechPad
Additional Trademark:	N/A
Model Number:	K13
Additional Model Number: N/A	
Hardware Version:	TH1330-RK3566-V3.1
Software Version:	Android 11
Serial No.:	JK132203000001~UP
Rating:	DC3.7V, 3A
Battery:	DC3.7V, 10000mAh Li-ion battery
Power Supply:	Model: TPQ-228F050300UW01; Input: 100-240V~, 50/60Hz, 0.5A; Output: DC3.7V, 3A
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

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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:	Integral Antenna. The gain of the antennas is 0.8dBi (Declared by the applicant)
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; NSS1 mcs0 air data rate was the worst case for 802.11ac mode;
Frequency Selection	By software

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		

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161	5825 MHz				

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

1.4 Submitted Sample:2 Samples

1.5 Test Duration

2022-03-23 to 2022-05-10

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by Andy Xing

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	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-06-18	2022-06-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic	--	--	N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2022-01-14	2023-01-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2021-06-18	2022-06-17
RF Cable	Zhengdi	7m	--	2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

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 15.407	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 and 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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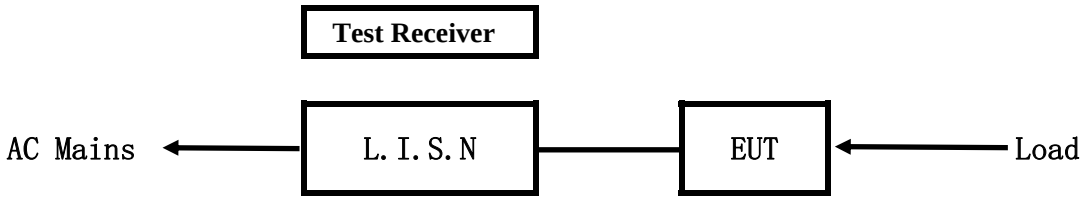
5. Power Line Conducted Emission Test

5.1 Schematics of the test



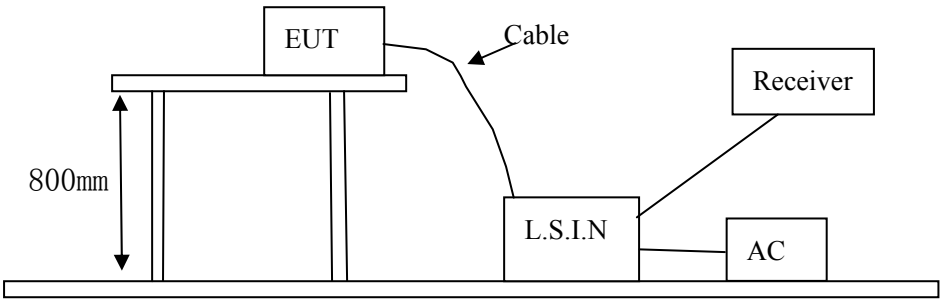
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2009.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: DC3.7V, 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
Tablet PC	Shenzhen Jingwah Information Technology Co., Ltd.	K13	RBD-K13

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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.

Note: Only the worst case was recorded in the test report.

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

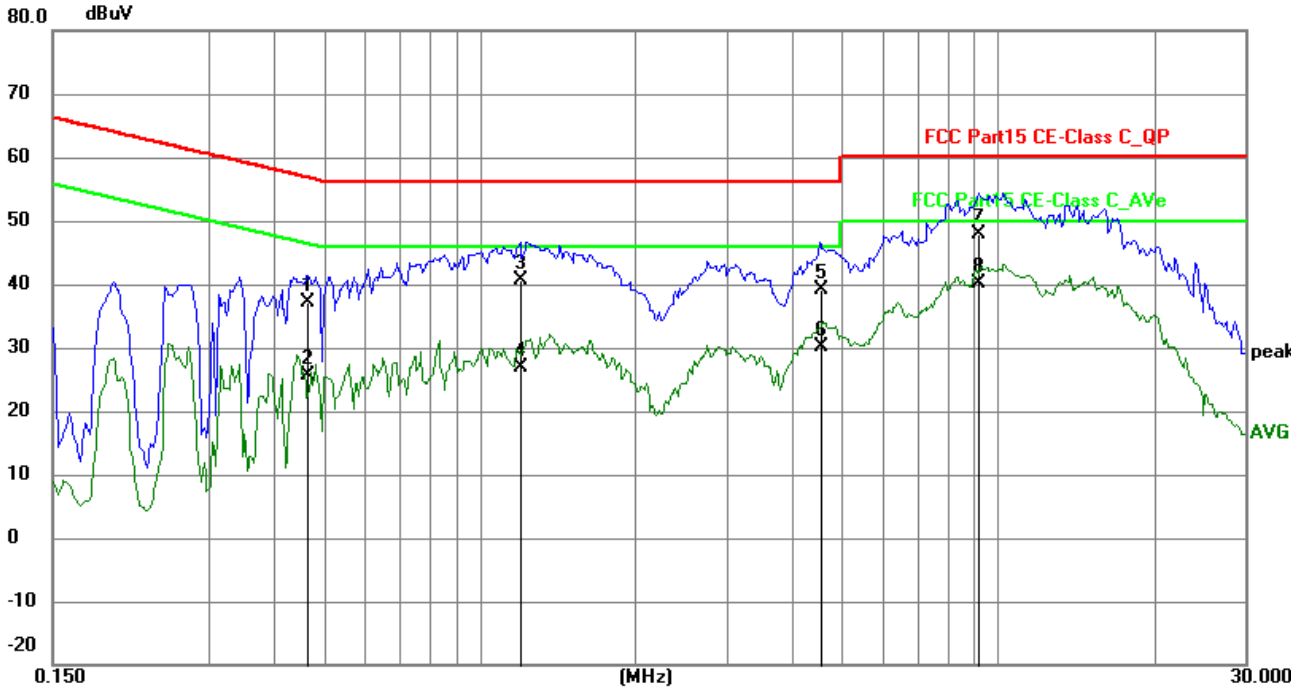
EUT Operating Environment

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	0.4659	27.44	9.77	37.21	56.59	-19.38	QP	P
2	0.4659	15.84	9.77	25.61	46.59	-20.98	AVG	P
3	1.1991	30.76	9.79	40.55	56.00	-15.45	QP	P
4	1.1991	16.97	9.79	26.76	46.00	-19.24	AVG	P
5	4.5443	29.11	9.91	39.02	56.00	-16.98	QP	P
6	4.5443	20.13	9.91	30.04	46.00	-15.96	AVG	P
7	9.1932	37.81	10.12	47.93	60.00	-12.07	QP	P
8	9.1932	29.95	10.12	40.07	50.00	-9.93	AVG	P

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

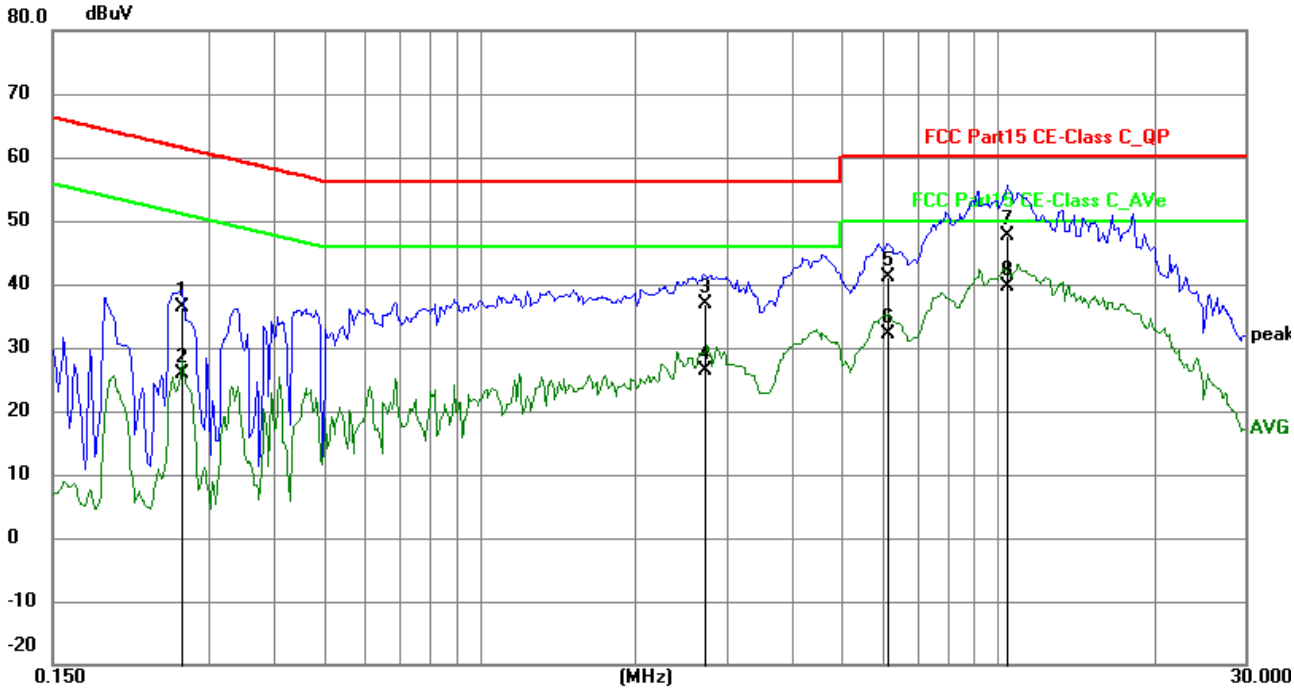
EUT Operating Environment

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	0.2670	26.64	9.75	36.39	61.21	-24.82	QP	P
2	0.2670	16.21	9.75	25.96	51.21	-25.25	AVG	P
3	2.7123	27.17	9.83	37.00	56.00	-19.00	QP	P
4	2.7123	16.49	9.83	26.32	46.00	-19.68	AVG	P
5	6.1395	31.11	9.98	41.09	60.00	-18.91	QP	P
6	6.1395	22.17	9.98	32.15	50.00	-17.85	AVG	P
7	10.4061	37.57	10.18	47.75	60.00	-12.25	QP	P
8	10.4061	29.40	10.18	39.58	50.00	-10.42	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 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.

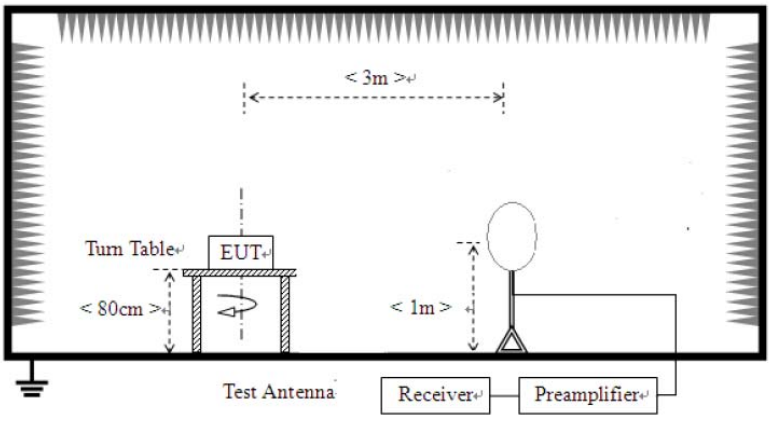
(4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

(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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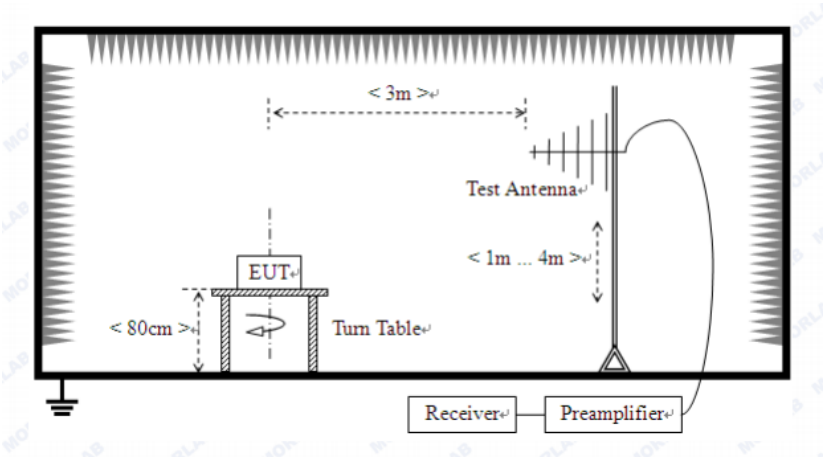
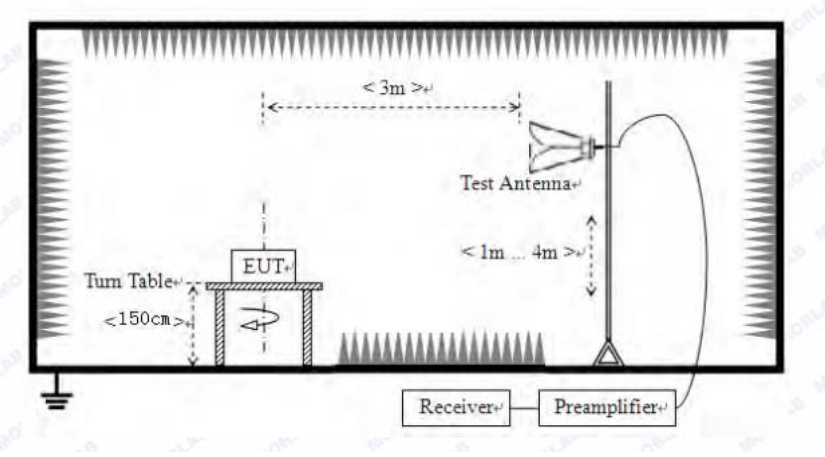
For radiated emissions from 30MHz to1GHz



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

4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

Note: Only the worst case was recorded in the test report. and 802.11a is the worst case.

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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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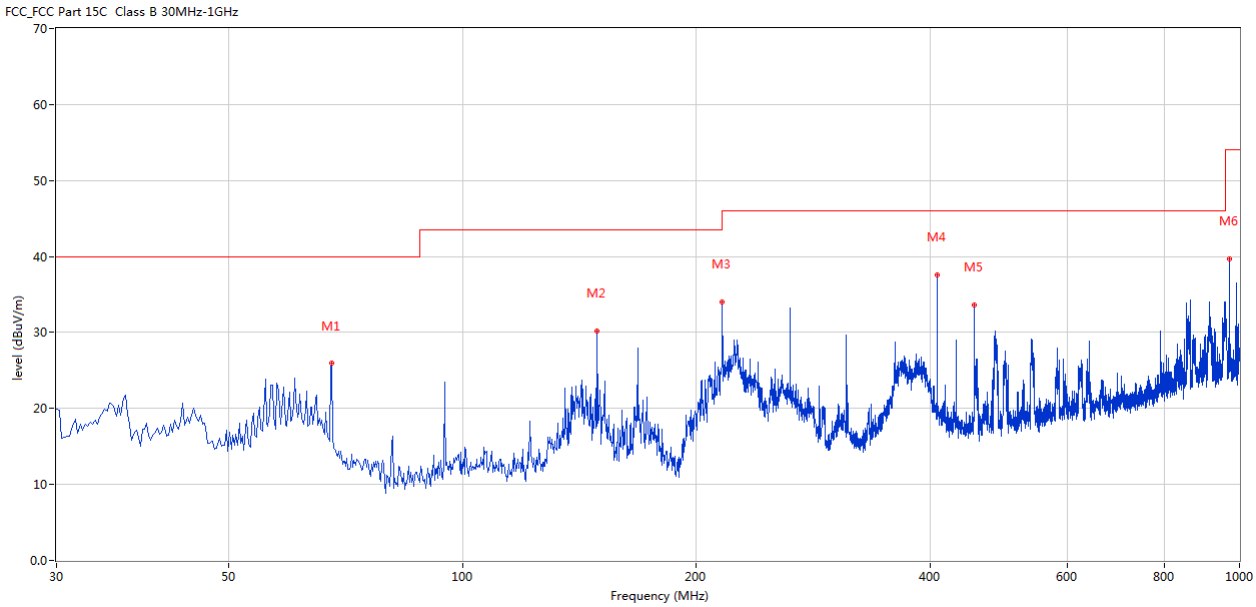
Test Figure:

H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	67.821	25.91	-14.55	40.0	-14.09	Peak	186.00	100	Horizontal	Pass
2	149.038	30.19	-17.11	43.5	-13.31	Peak	123.00	100	Horizontal	Pass
3	215.951	34.00	-13.60	43.5	-9.50	Peak	130.00	100	Horizontal	Pass
4	407.963	37.56	-8.47	46.0	-8.44	Peak	133.00	100	Horizontal	Pass
5	455.966	33.68	-7.95	46.0	-12.32	Peak	219.00	100	Horizontal	Pass
6	971.877	39.73	-1.62	54.0	-14.27	Peak	46.00	100	Horizontal	Pass

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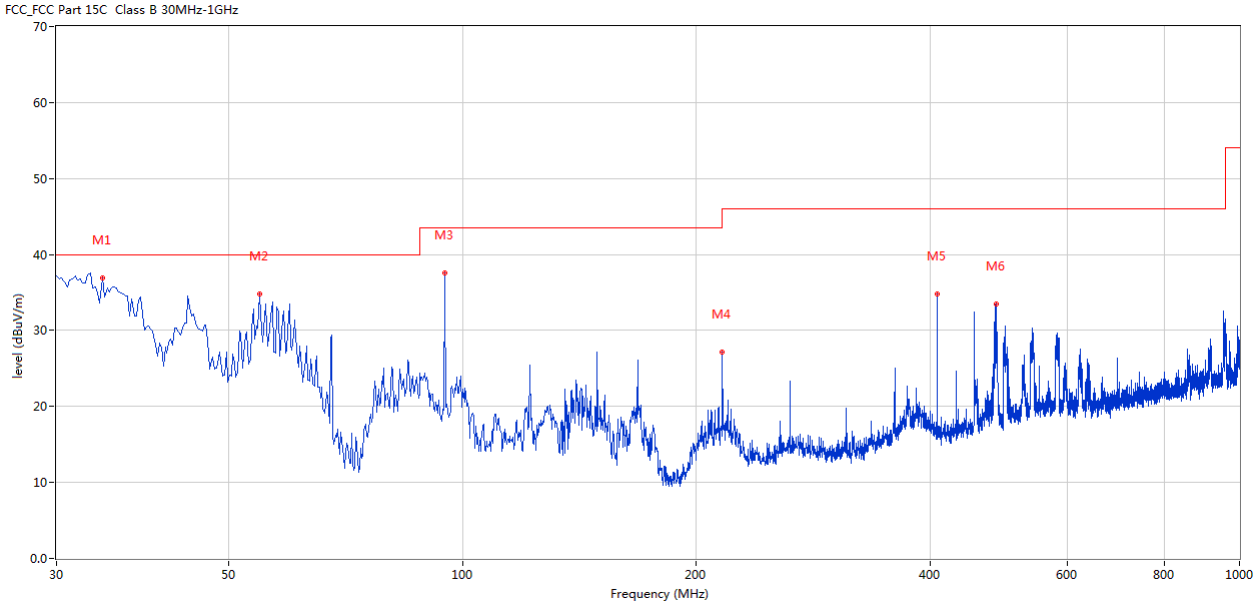
Test Figure:

V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	34.364	36.96	-14.17	40.0	-3.04	Peak	268.00	100	Vertical	Pass
2	54.729	34.86	-11.72	40.0	-5.14	Peak	313.00	100	Vertical	Pass
3	94.731	37.63	-14.32	43.5	-5.87	Peak	320.00	100	Vertical	Pass
4	215.951	27.21	-13.60	43.5	-16.29	Peak	342.00	100	Vertical	Pass
5	407.963	34.83	-8.47	46.0	-11.17	Peak	150.00	100	Vertical	Pass
6	486.513	33.53	-7.25	46.0	-12.47	Peak	324.00	100	Vertical	Pass

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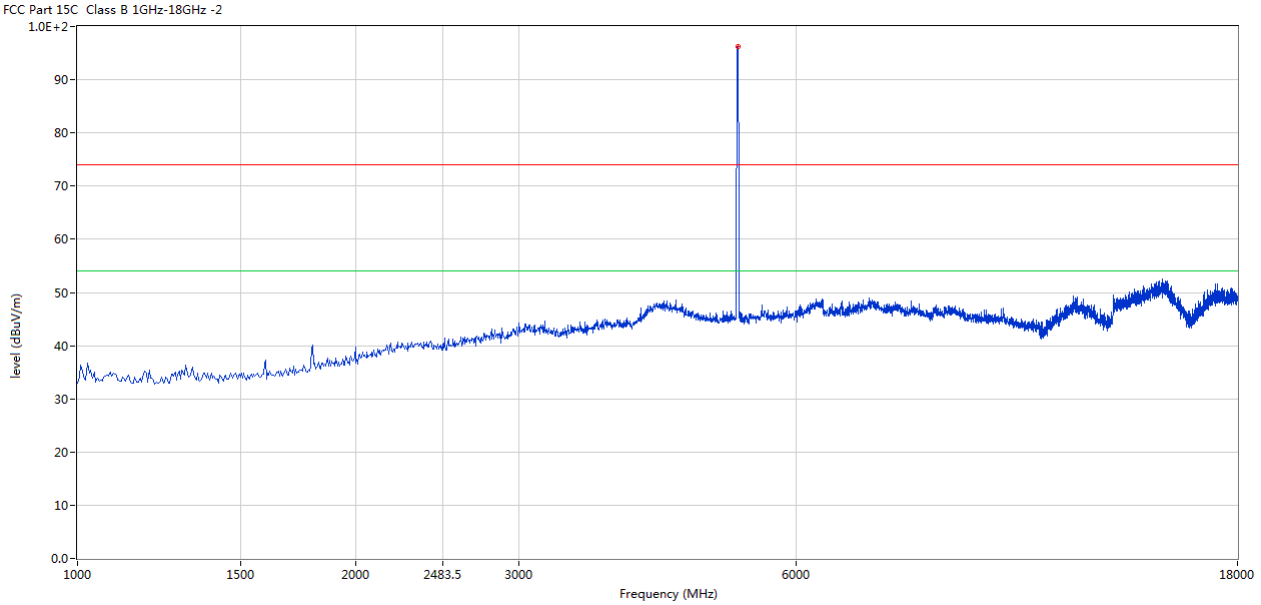
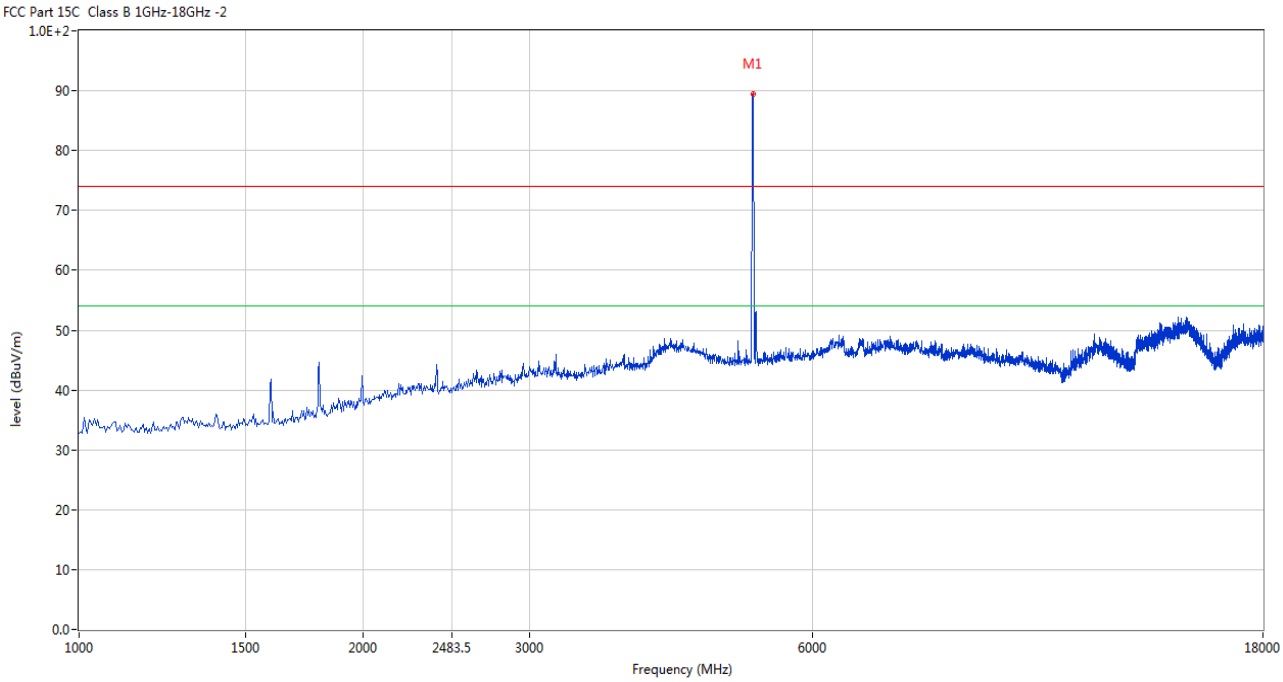
Please refer to the following test plots for details:

CH36 for 11a at 6Mbps: Horizontal



CH36 for 11a at 6Mbps: Vertical



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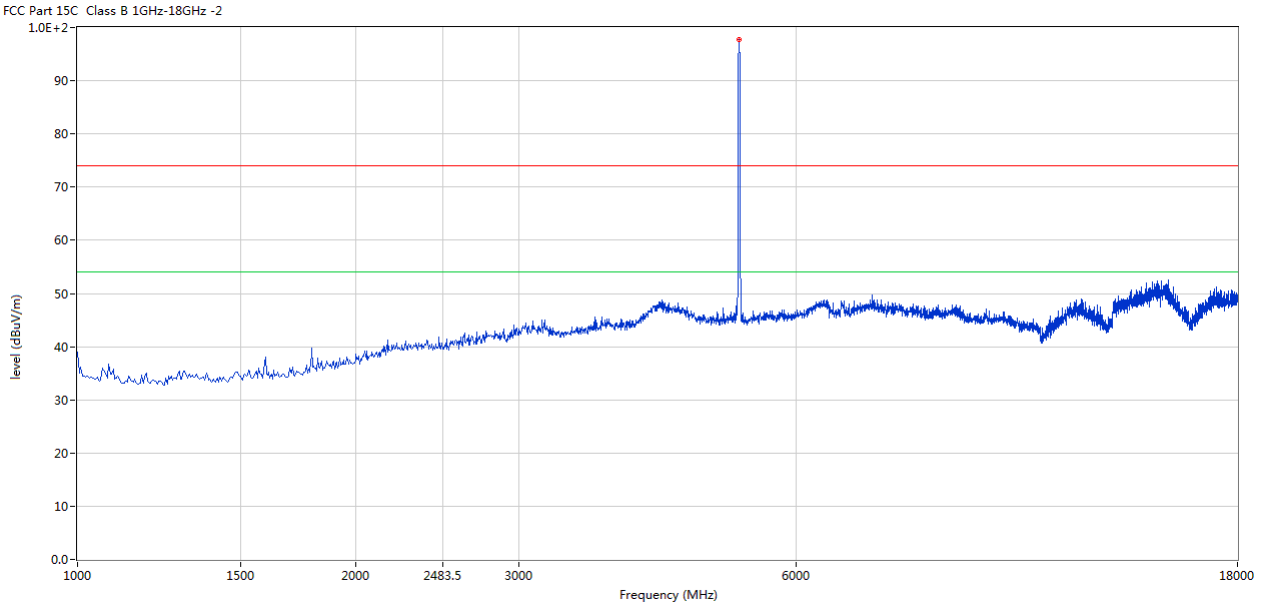
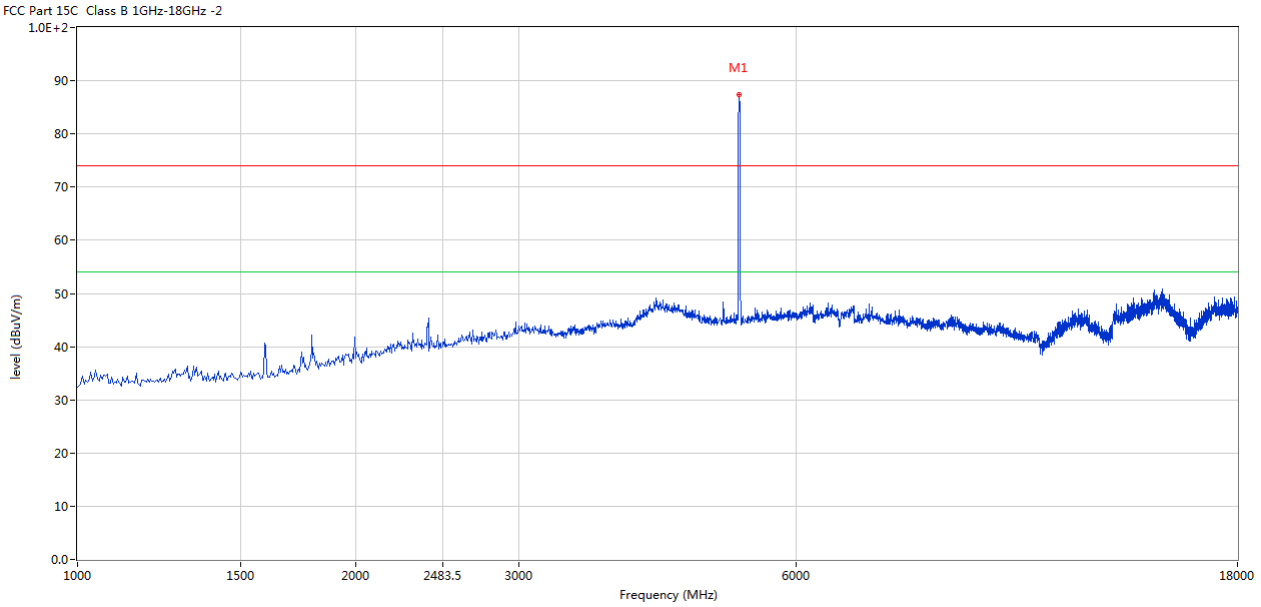
CH40 for 11a at 6Mbps: Horizontal



CH40 for 11a at 6Mbps: Vertical



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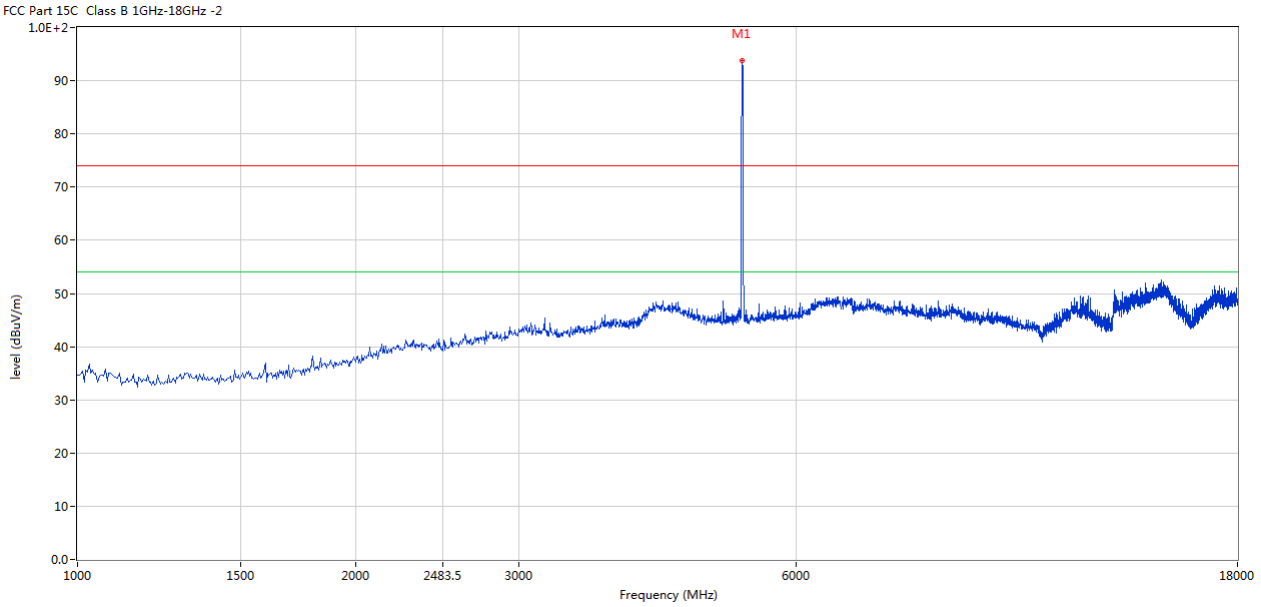
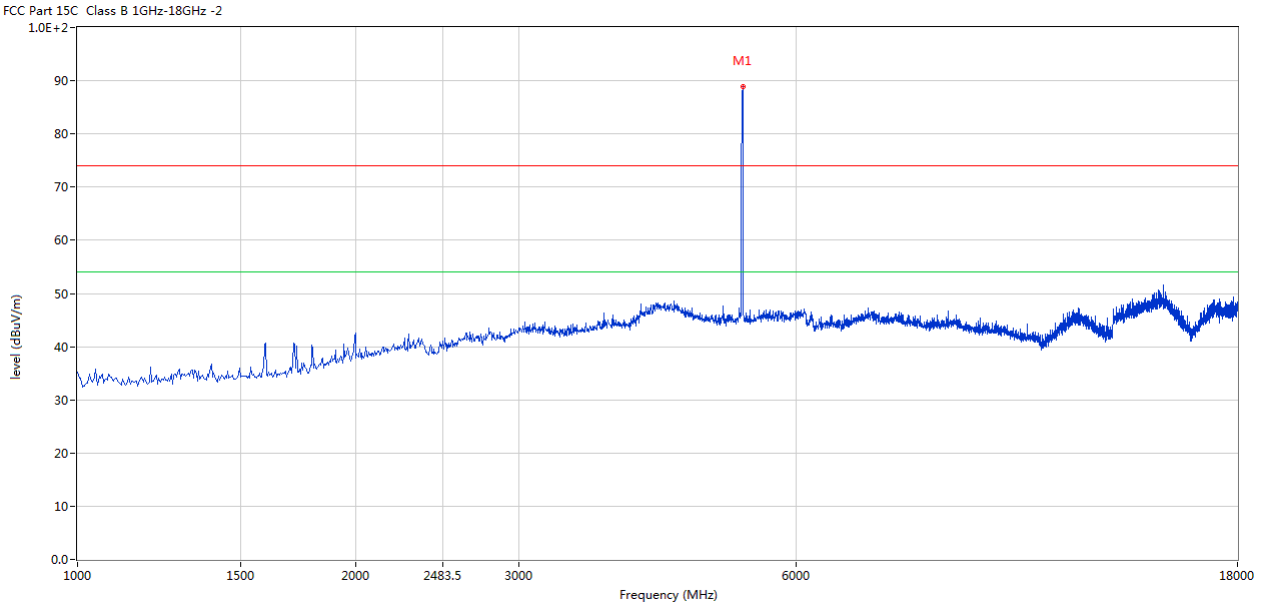
CH48 for 11a at 6Mbps: Horizontal



CH48 for 11g at 6Mbps: Vertical



Note: 1. For radiated Emissions from 18-40GHz and below 30MHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

2. 802.11a is the worst case.

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Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 36 (5180MHz)-11a
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	45.5 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.7		
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]= 45.5 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=45.5-95.2=-49.7dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 36 (5180MHz)-11a
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	42.3 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-52.9		
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]= 42.3 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=42.3-95.2=-52.9dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 48 (5240MHz)-11a
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	49.8 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-45.4		
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]= 49.8 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=49.8-95.2= -45.4dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 48 (5240MHz)-11a
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	46.7 (PK)	Limit	-27dBm/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	Tablet PC		Test Mode:	Channel 149 (5745MHz)-11a
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	53.4 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-41.8		
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]= 53.4 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=53.4-95.2= -41.8dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 149 (5745MHz)-11a
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	47.2(PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-48.0		
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]= 47.2 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=47.2-95.2= -48.0dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 161 (5825MHz)-11a
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	55.2 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-40.0		
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]= 55.2 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=55.2-95.2= -40.0dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 161 (5825MHz)-11a
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	50.4 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-44.8		
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]=50.4 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=50.4-95.2=-44.8dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	46.6(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]= 46.6 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=46.6-95.2= -48.6dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	43.9 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-51.3		
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]= 43.9dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=43.9-95.2= -51.3dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	47.7 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-47.5		
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]= 47.7 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=47.7-95.2=-47.5dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.7V
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	Tablet PC		Test Mode:	Channel 149 (5745MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	50.3 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-44.9		
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]= 50.3 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=50.3-95.2=-44.9dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 149 (5745MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.7V
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	Tablet PC		Test Mode:	Channel 161 (5825MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	50.5 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-44.7		
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]= 50.5dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=50.5-95.2= -44.7dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 161 (5825MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	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=-48.8dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	44.8 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-50.7		
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]= 44.8 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=44.8-95.2= -50.4 dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	42.2 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-53.0		
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]= 42.2dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=42.2-95.2= -53.0dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	48.6(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-46.6		
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]= 48.6 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=48.6-95.2= -46.6 dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	45.3(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.9		
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]= 45.3dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=45.3-95.2= -49.9dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 151 (5755MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	51.4(PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-43.8		
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]= 51.4 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=51.4 -95.2= -43.8dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 151 (5755MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	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	Tablet PC		Test Mode:	Channel 159 (5795MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	53.4 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-41.8		
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]= 53.4 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=53.4-95.2=-41.8dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 159 (5795MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	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= -47.9 dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 42 (5210MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	47.7 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-47.5		
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]= 47.7 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=47.7-95.2= -47.5dBm
2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 42 (5210MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	45.7 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.5		
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]= 45.7 dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=45.7-95.2= -49.5dBm
2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Tablet PC		Test Mode:	Channel 155 (5775MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	DC3.7V
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	Tablet PC		Test Mode:	Channel 157 (5775MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	DC3.7V
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]= 47.6dBμV/m,
EIRP[dBm] = E[dBμV/m] - 95.2=47.6-95.2= -47.6dBm
2. RBW=1MHz, VBW=3MHz

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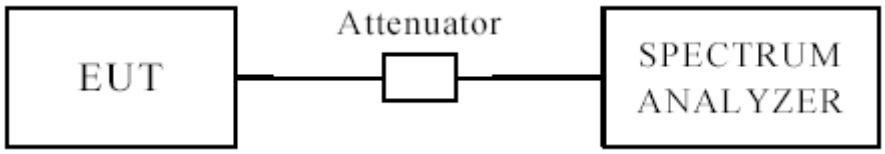
7.0 Emission Bandwidth

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	Tablet PC	Model	K13
Mode	802.11a	Input Voltage	DC3.7V
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	22.61	--	Pass
40	5200	6	22.61	--	Pass
48	5240	6	22.61	--	Pass
99% Bandwidth					
36	5180	6	16.89	--	Pass
40	5200	6	16.89	--	Pass
48	5240	6	16.89	--	Pass

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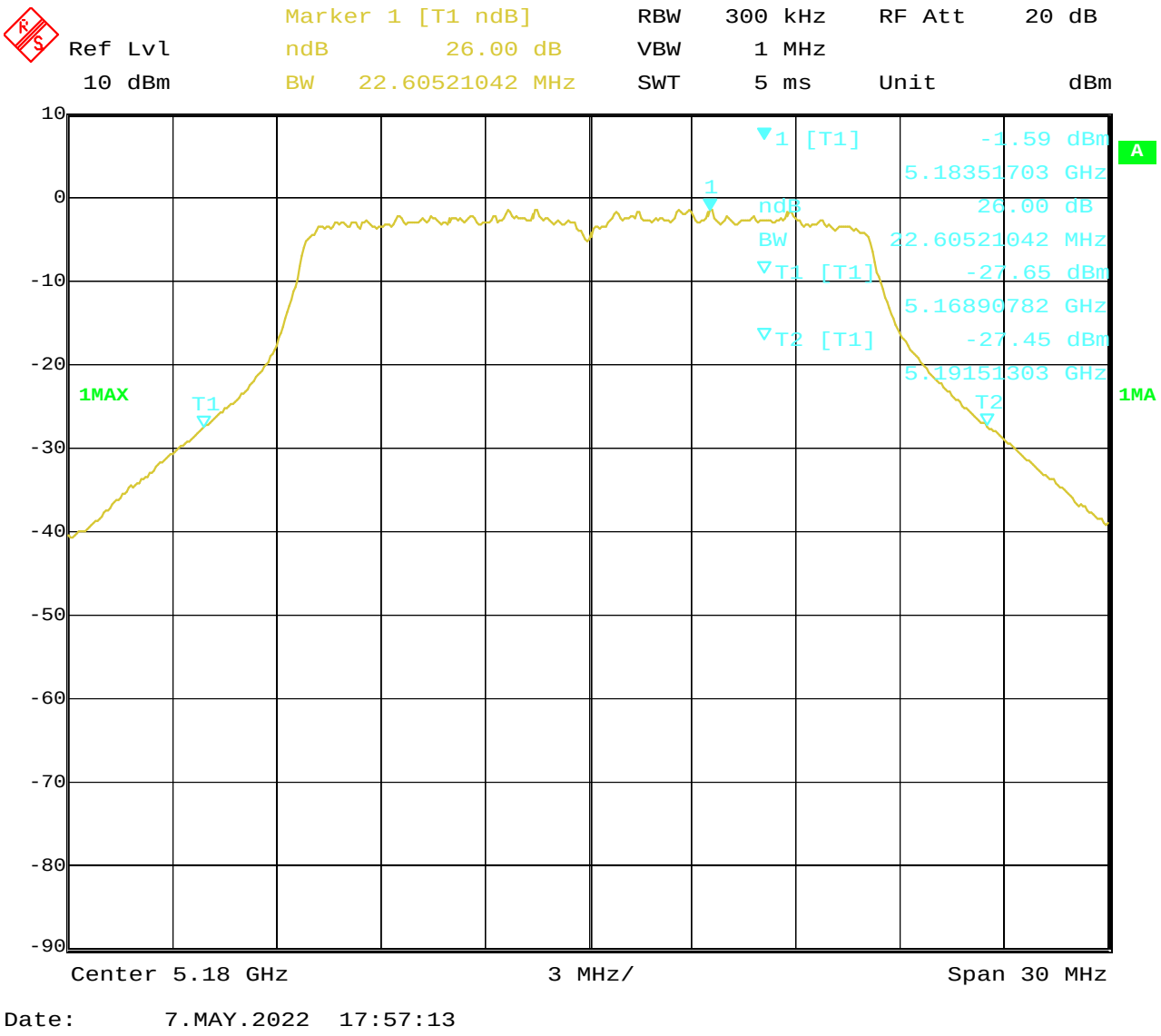
Test Figure:

26dB Bandwidth

Channel 36



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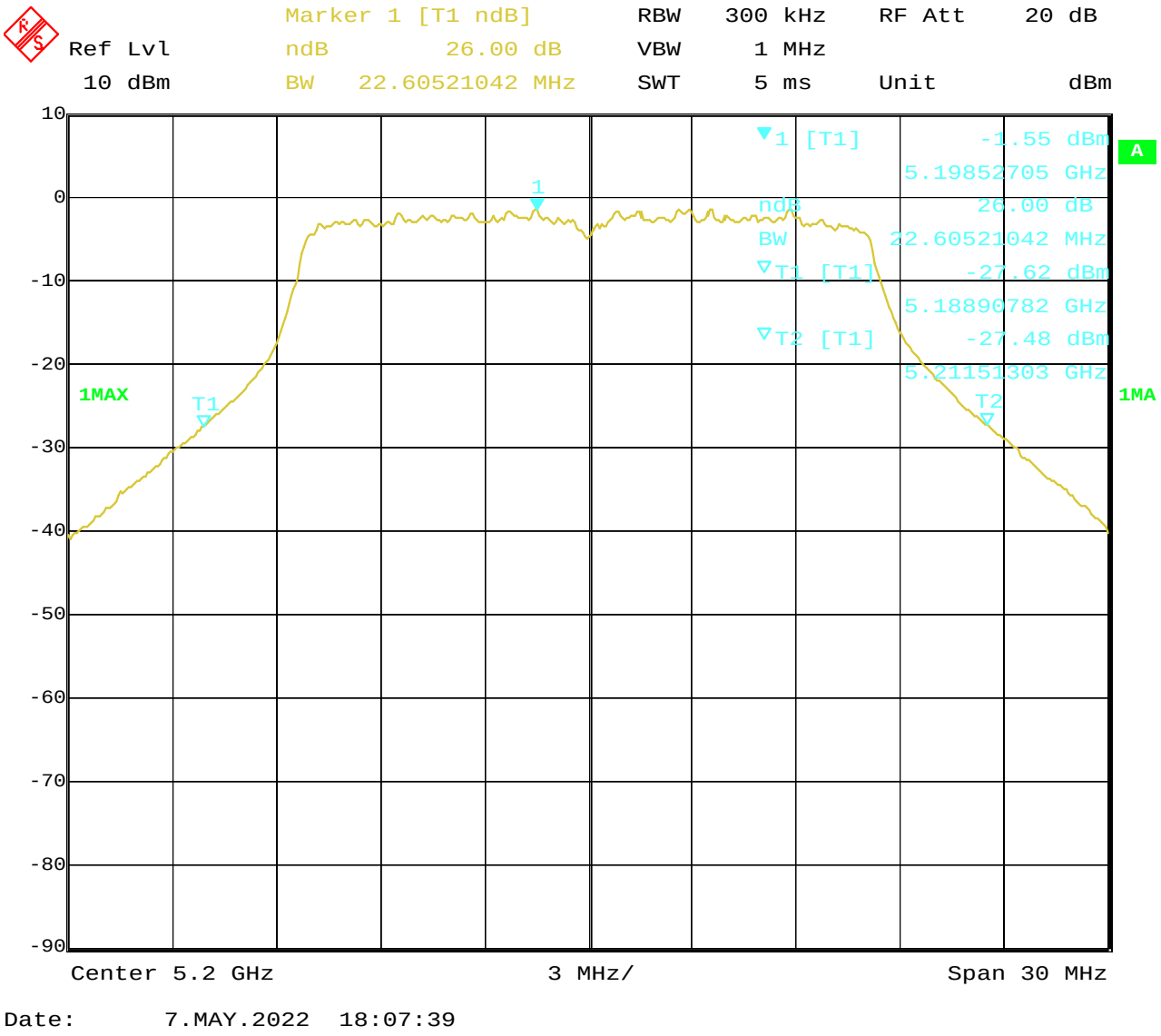
Channel 40



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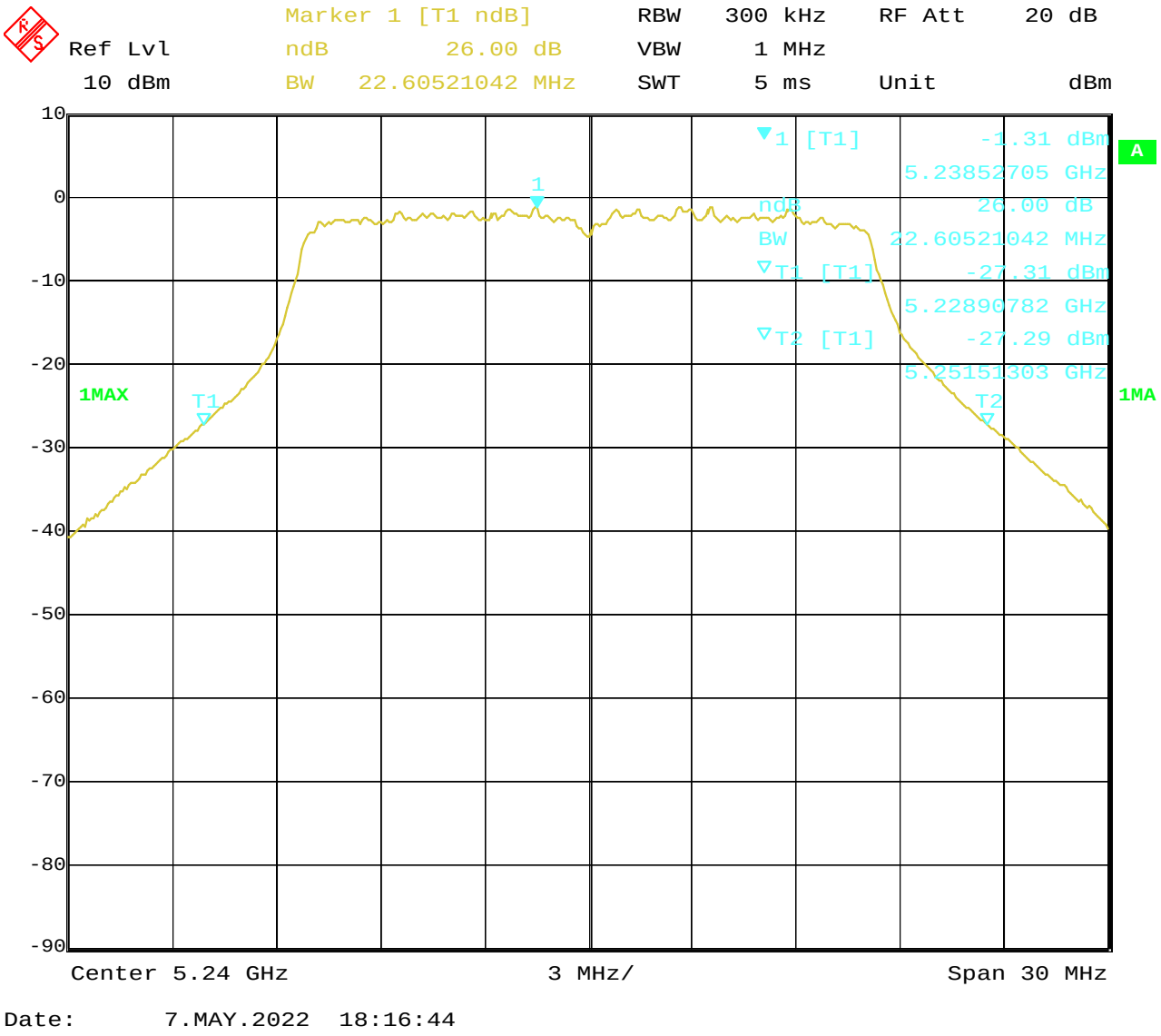
Channel 48



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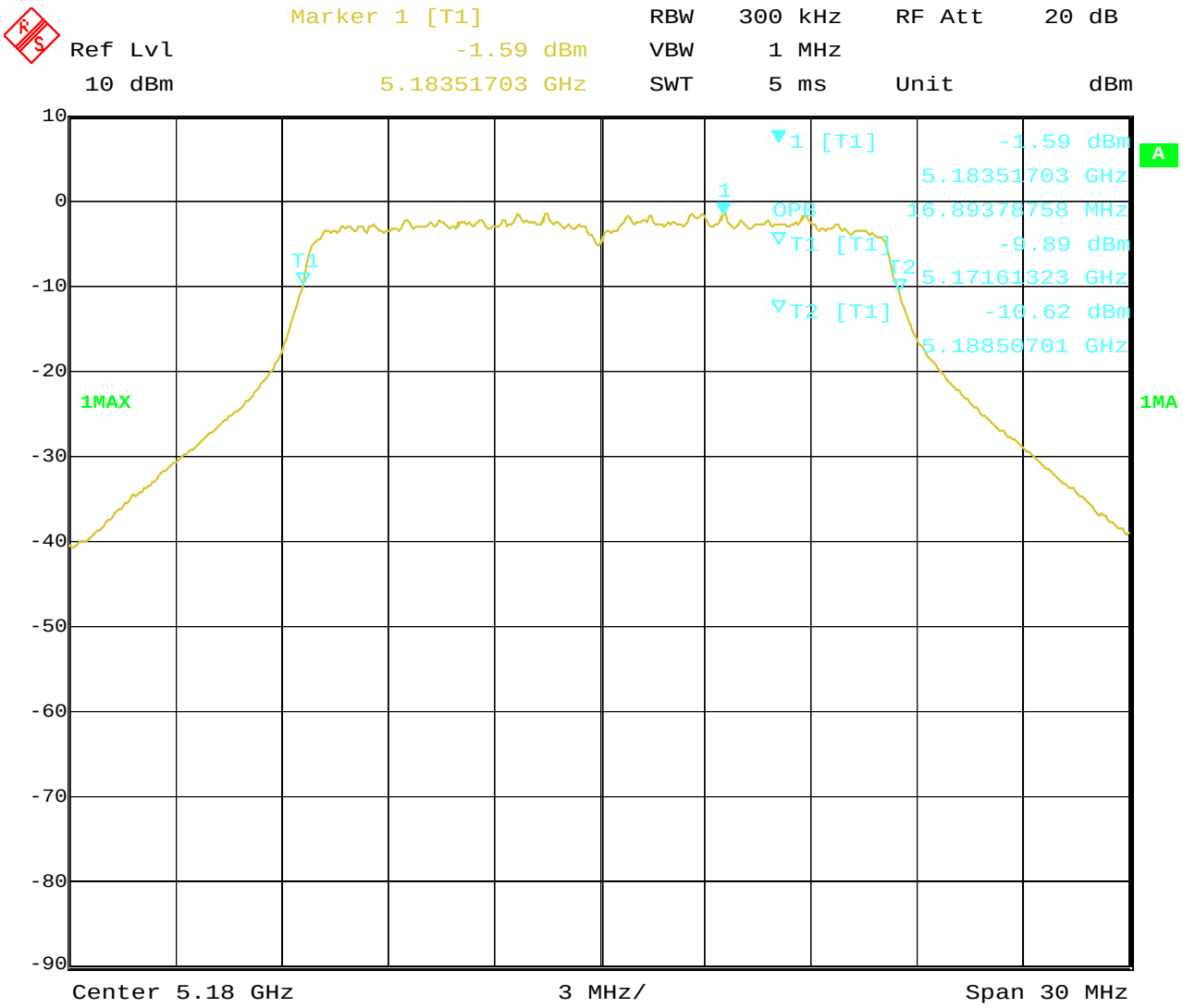
Test Figure:

99% Bandwidth

Channel 36



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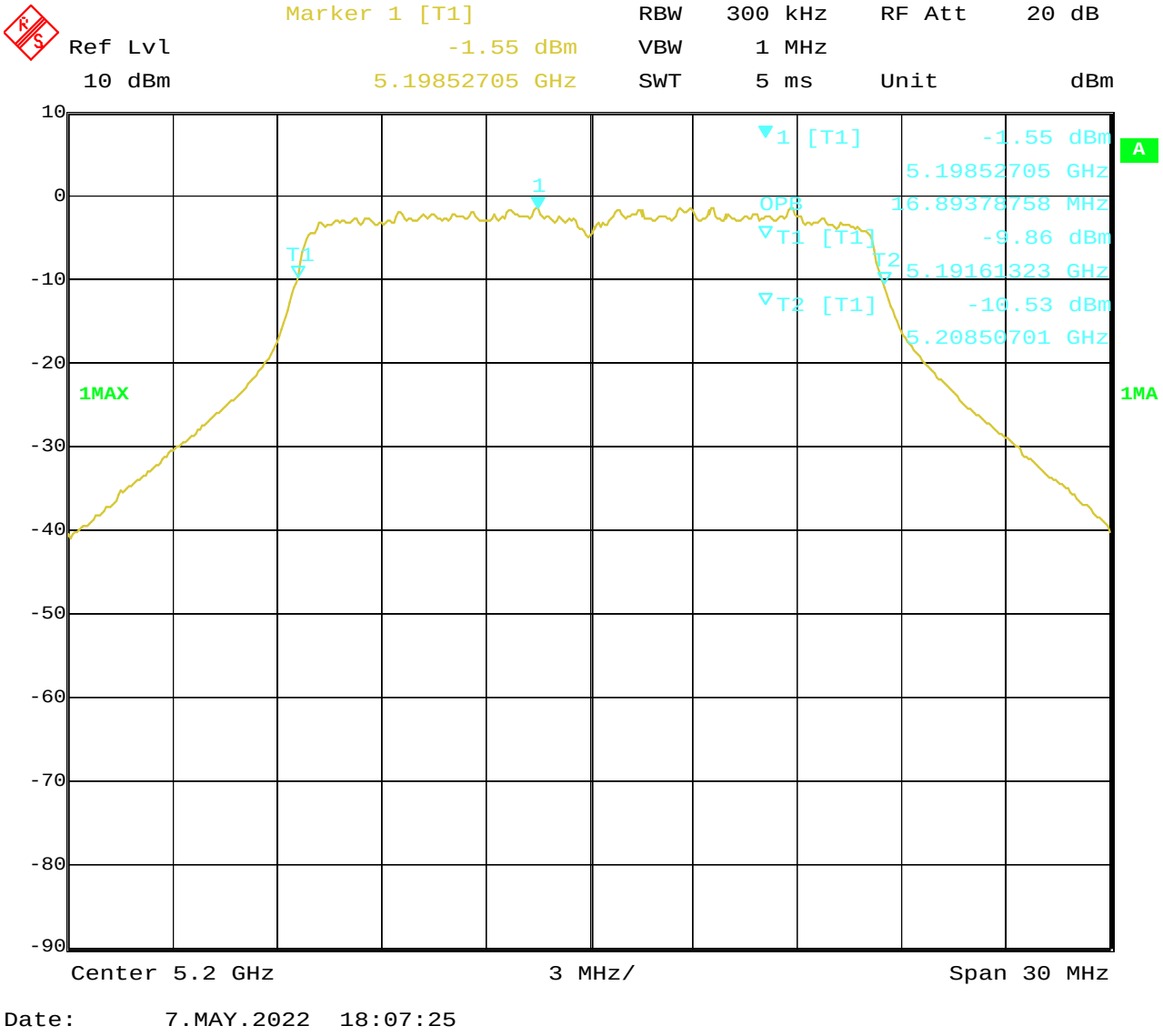
Channel 40



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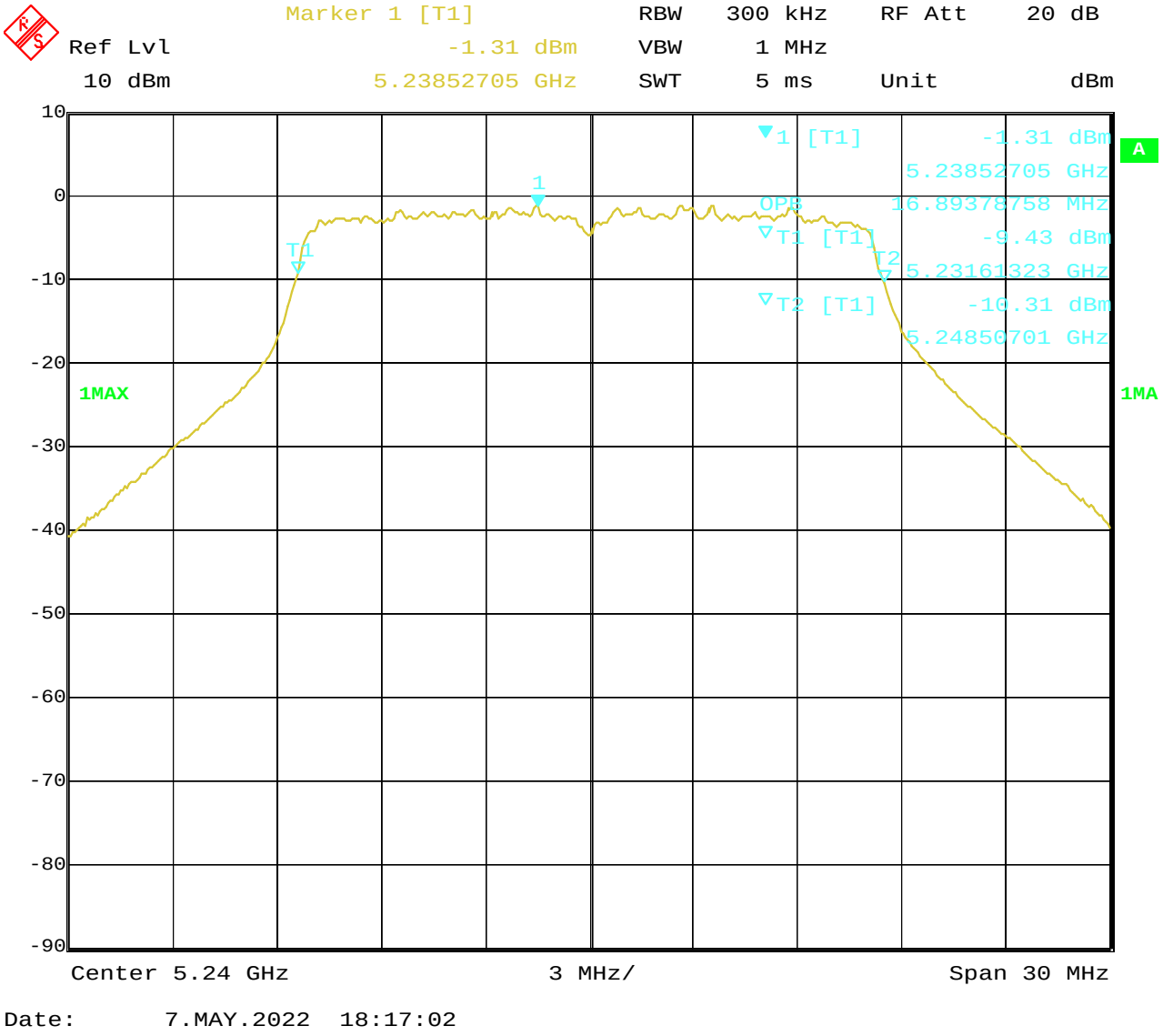
Channel 48



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EUT	Tablet PC	Model	K13
Mode	802.11a	Input Voltage	DC3.7V
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	22.55	--	Pass
153	5765	6	22.48	--	Pass
161	5825	6	22.48	--	Pass
6dB Bandwidth					
149	5745	6	16.29	0.5	Pass
153	5765	6	16.37	0.5	Pass
161	5825	6	16.29	0.5	Pass
99% Bandwidth					
149	5745	6	16.89	--	Pass
153	5765	6	16.89	--	Pass
161	5825	6	16.89	--	Pass

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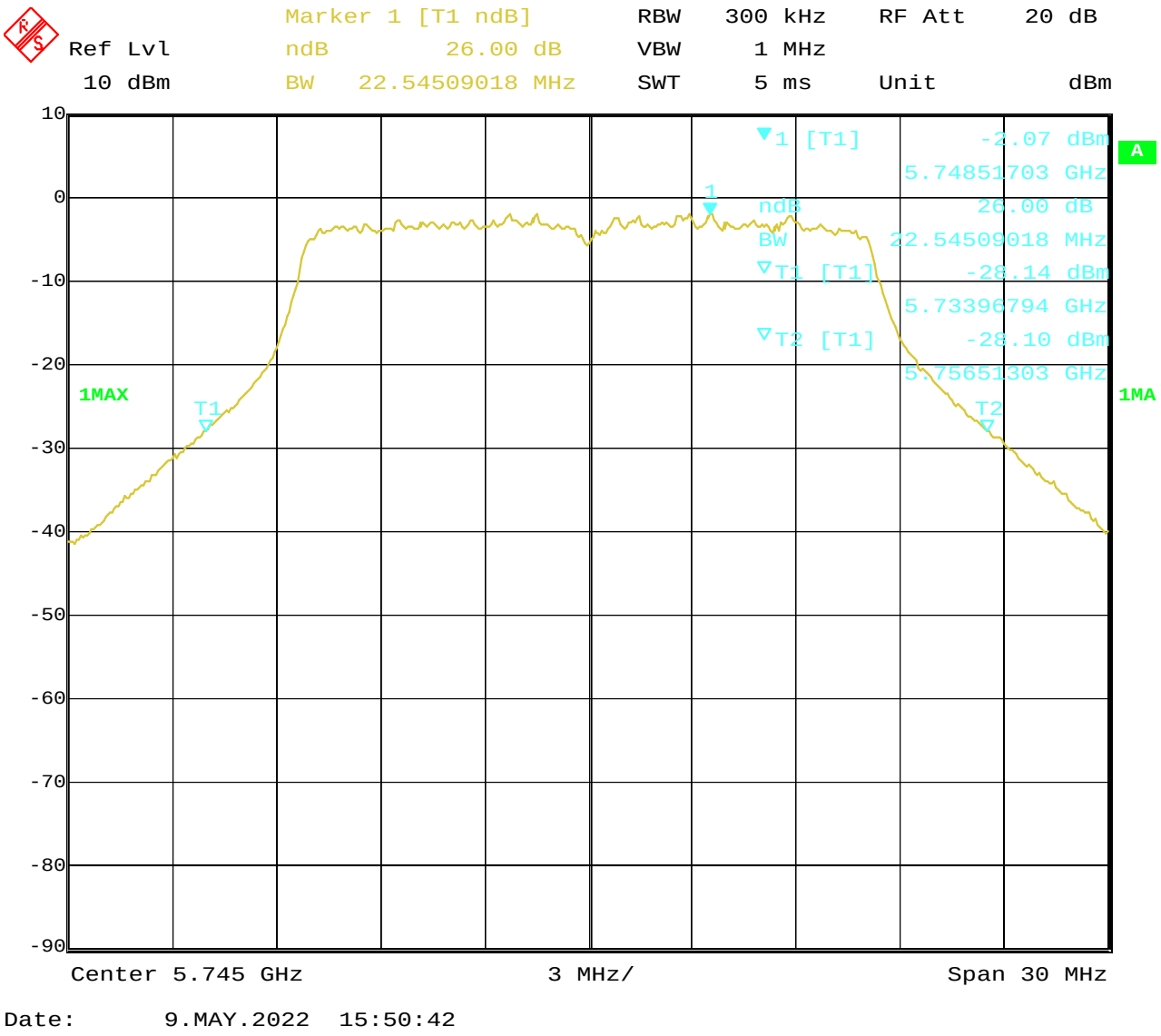
Test Figure:

26dB Bandwidth

Channel 149



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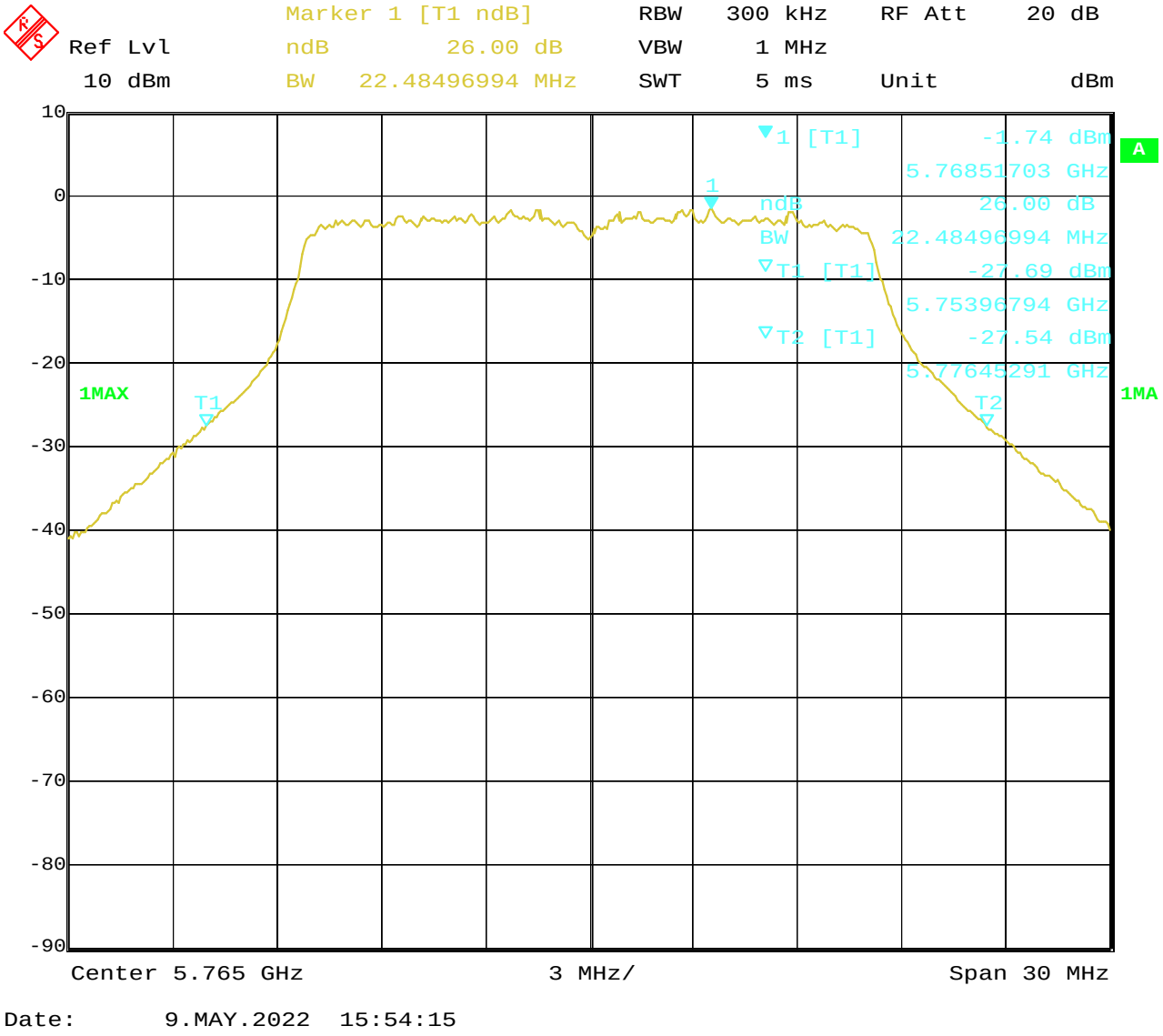
Channel 153



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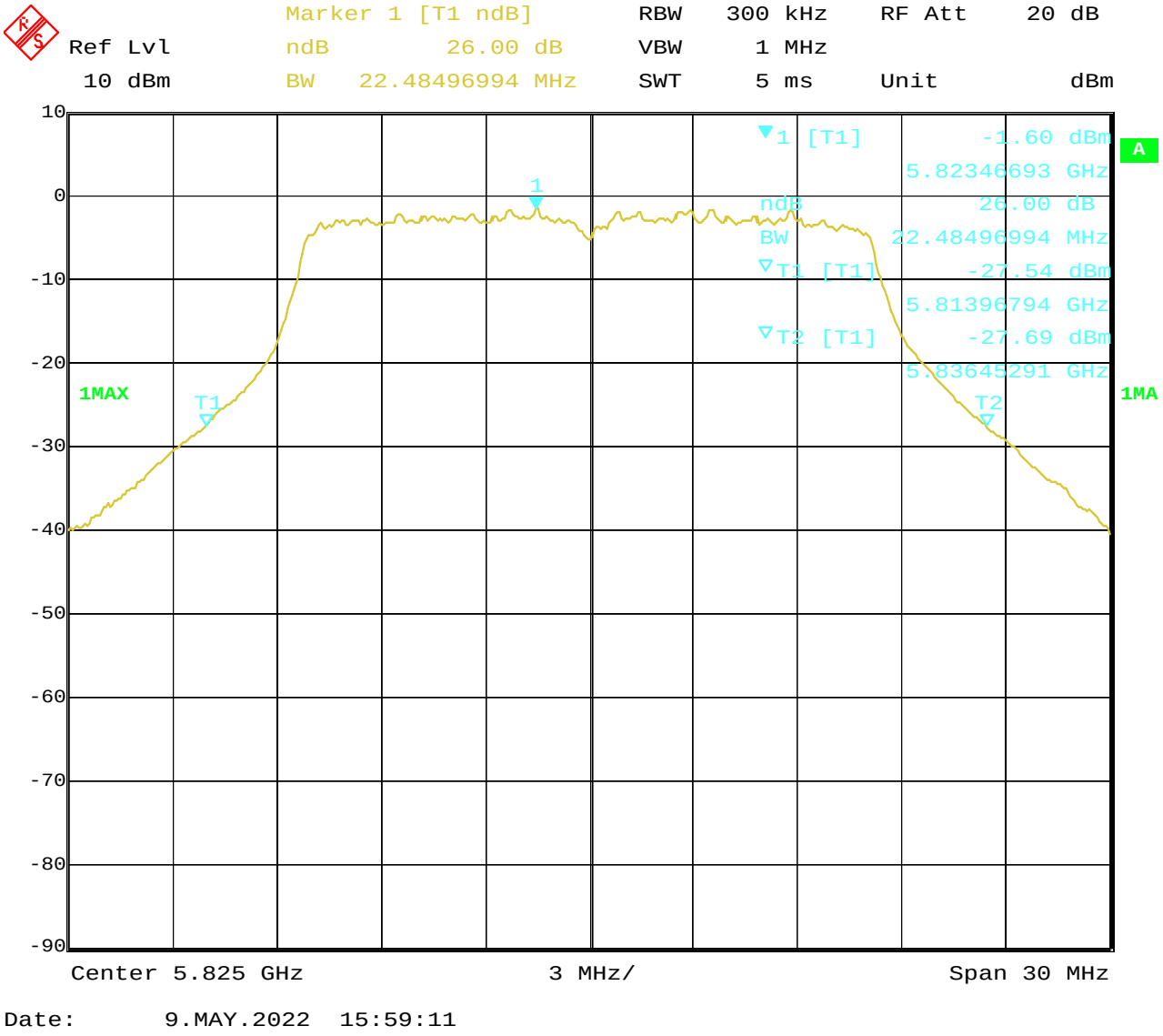
Channel 161



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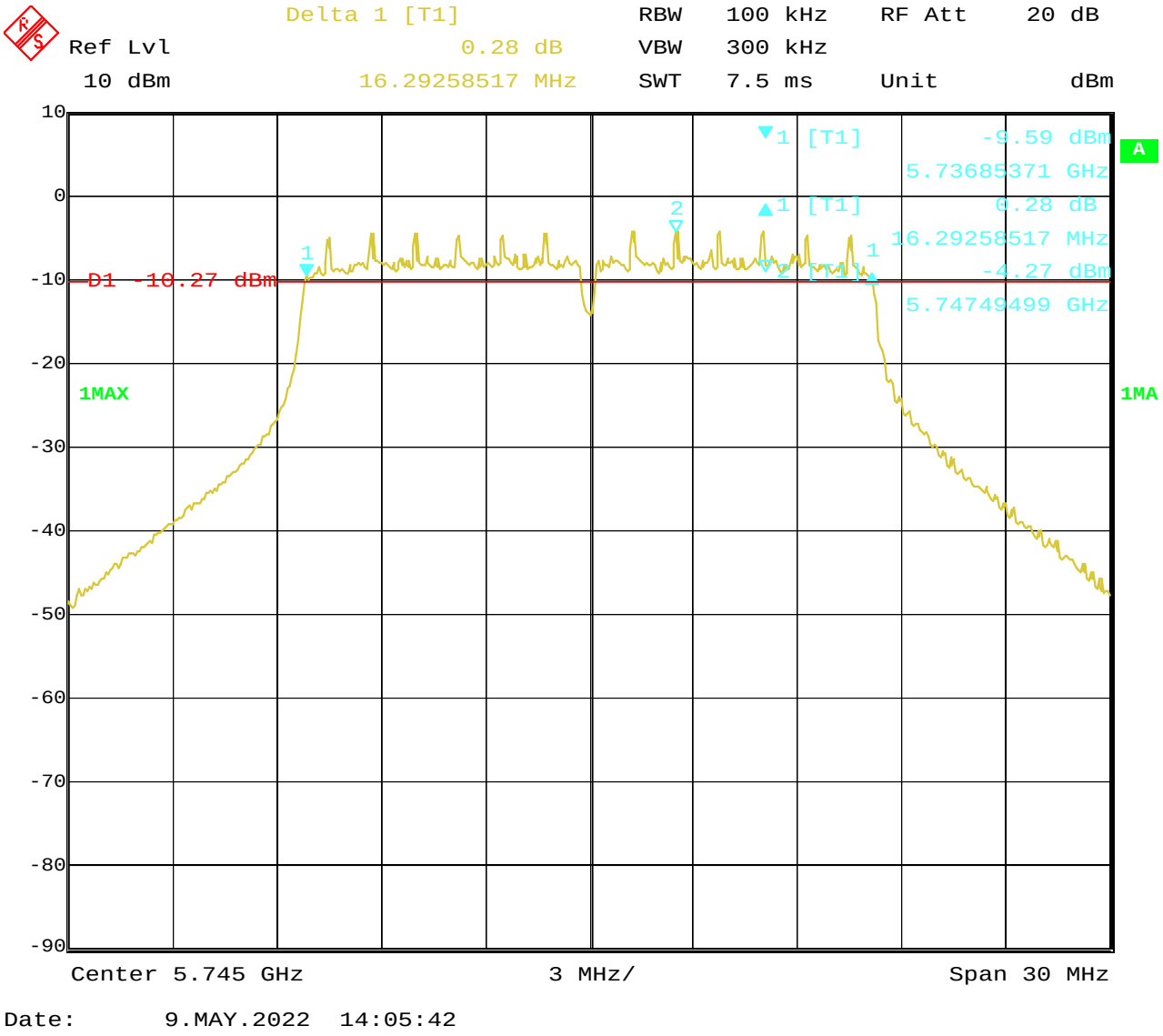
Test Figure:

6dB Bandwidth

Channel 149



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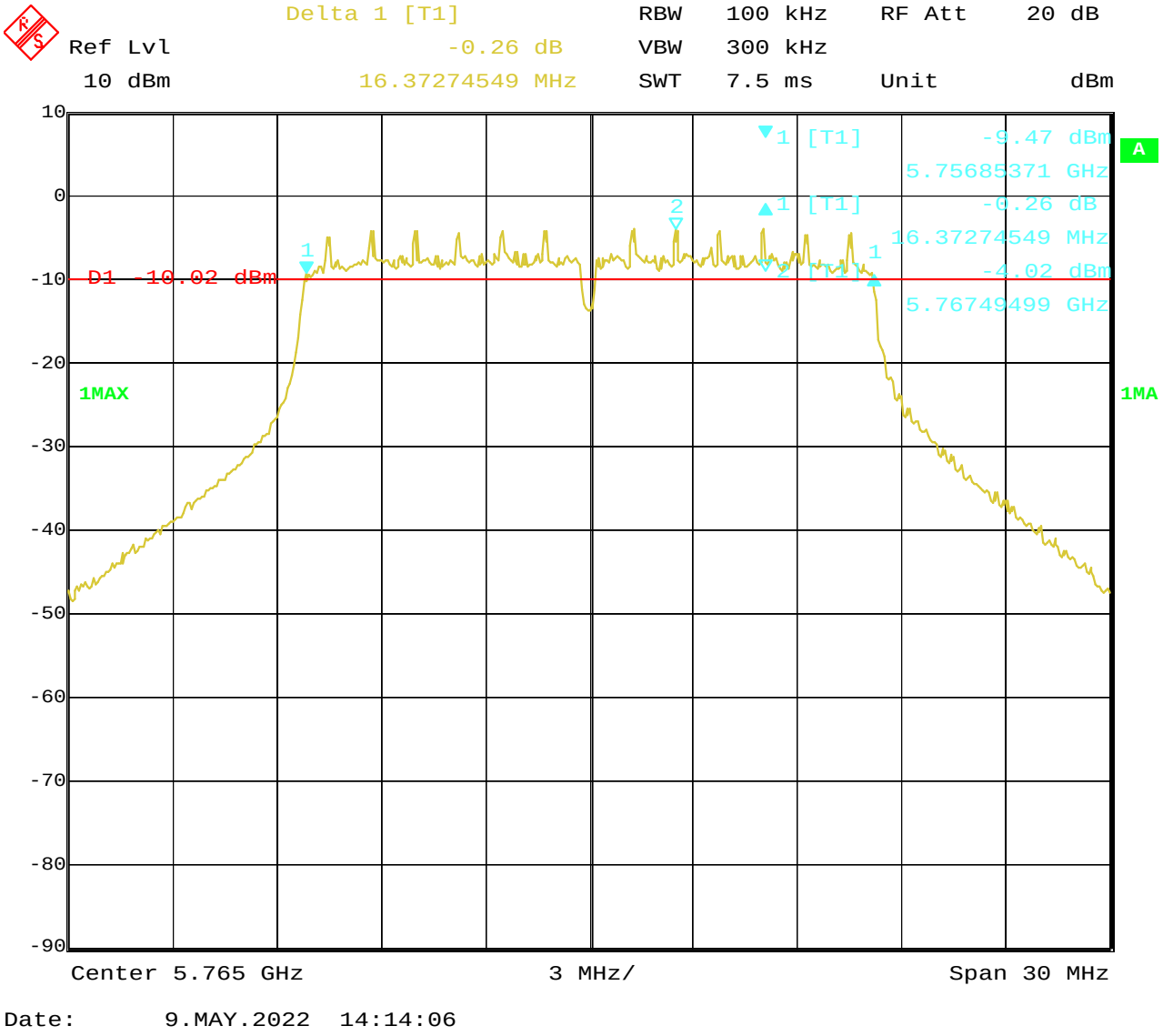
Channel 153



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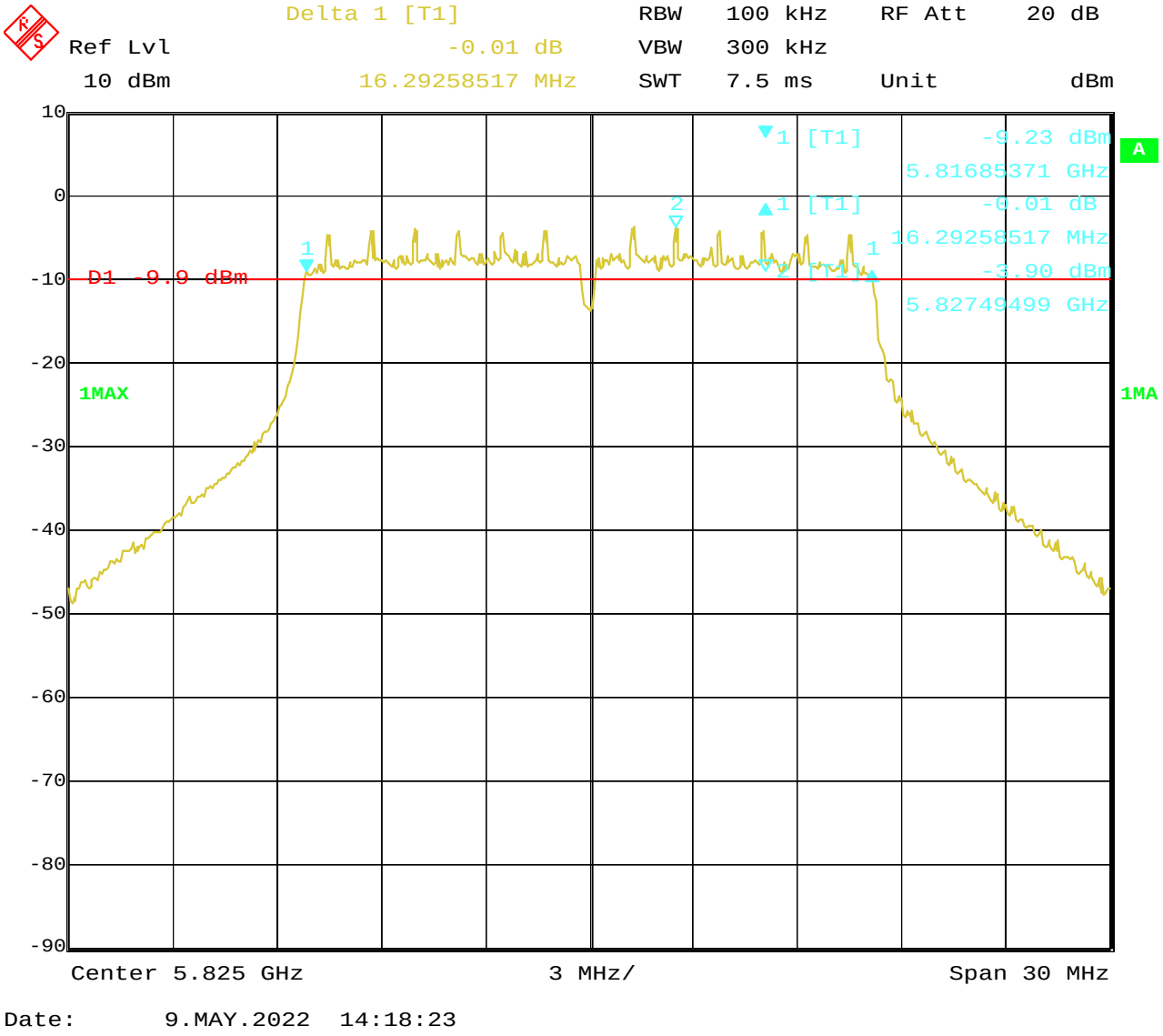
Channel 161



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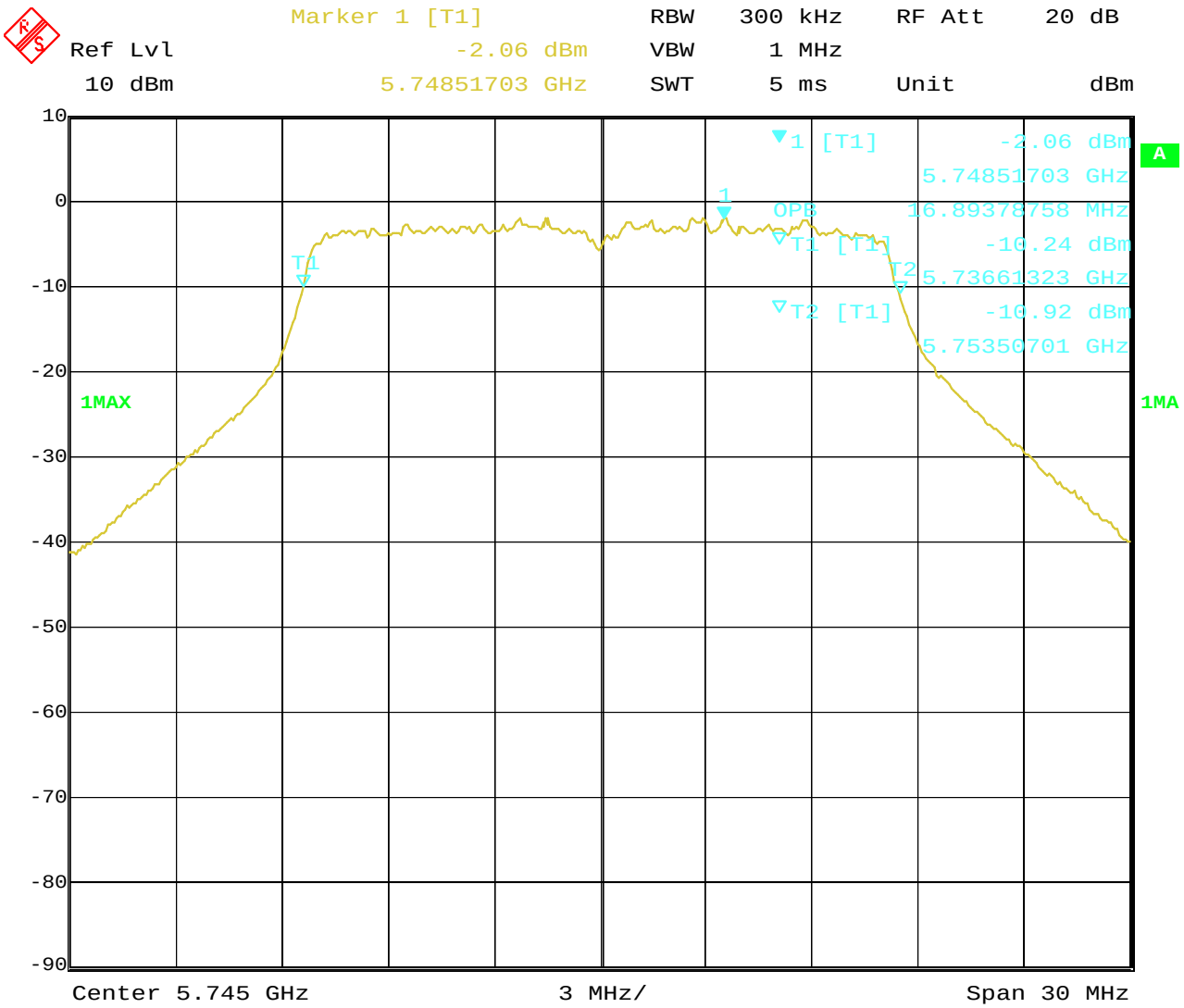
Test Figure:

99% Bandwidth

Channel 149



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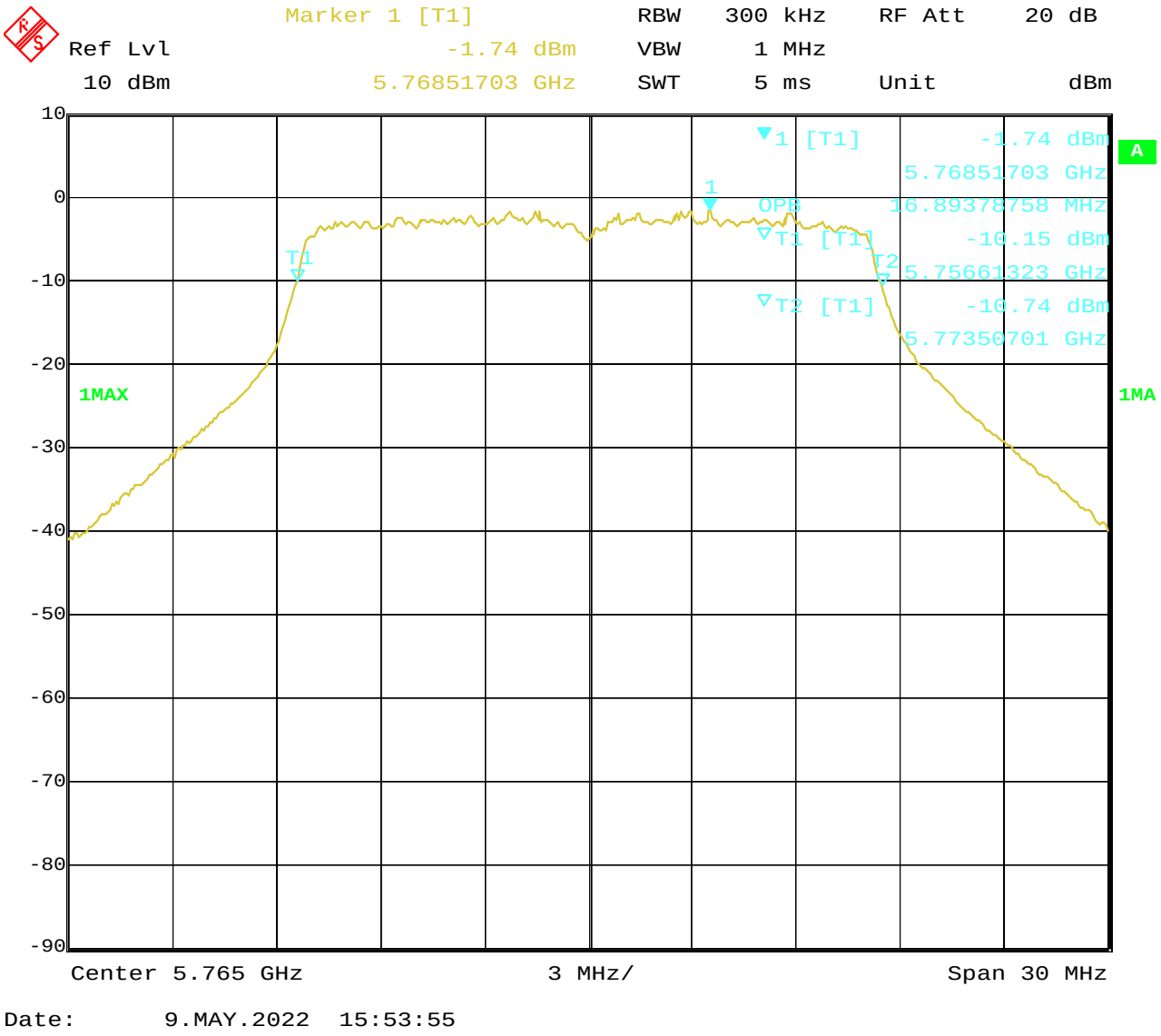
Channel 153



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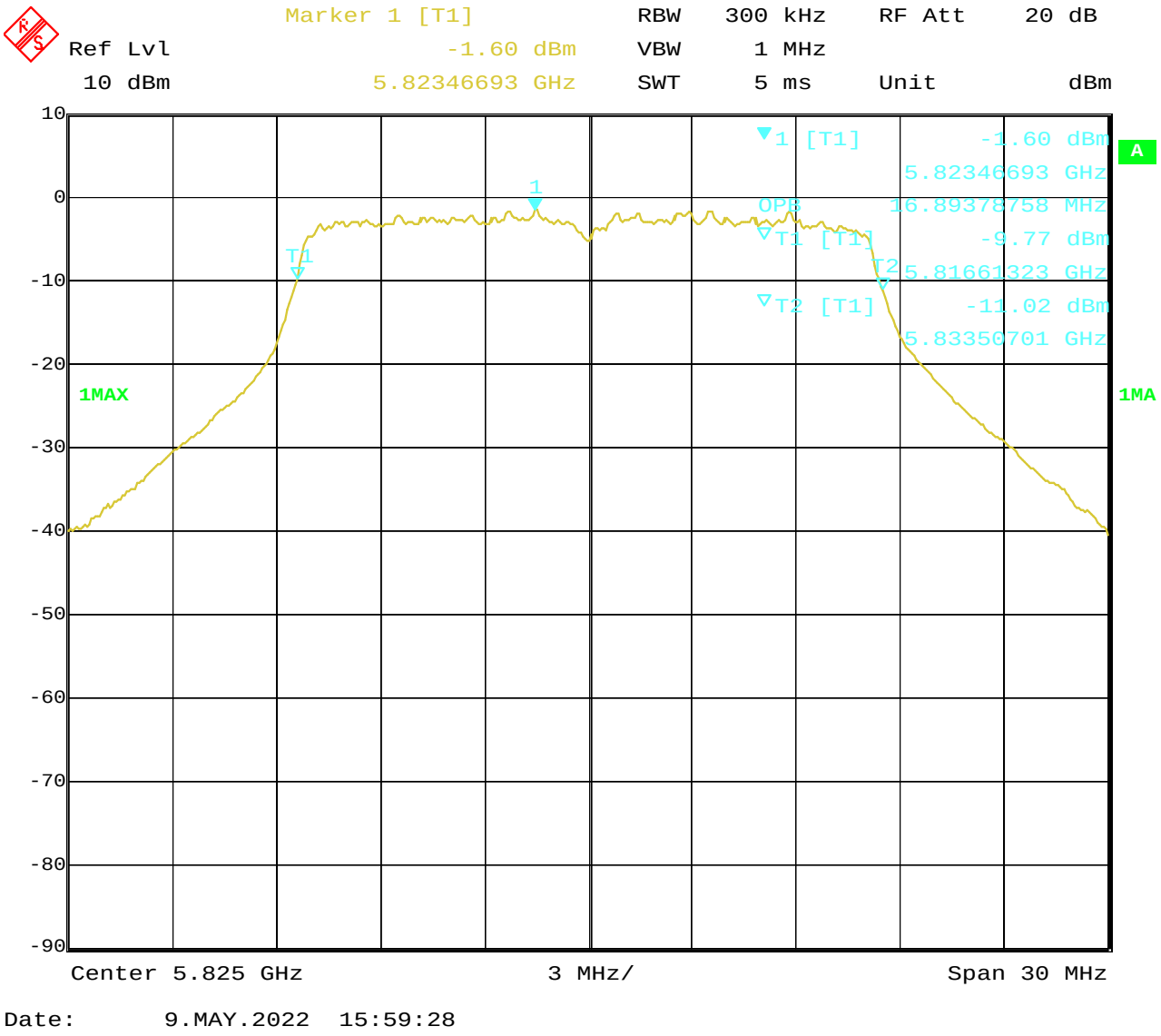
Channel 161



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EUT	Tablet PC	Model	K13
Mode	802.11n HT20	Input Voltage	DC3.7V
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	23.27	--	Pass
40	5200	mcs0	23.21	--	Pass
48	5240	mcs0	23.21	--	Pass
99% Bandwidth					
36	5180	mcs0	18.04	--	Pass
40	5200	mcs0	18.04	--	Pass
48	5240	mcs0	18.04	--	Pass

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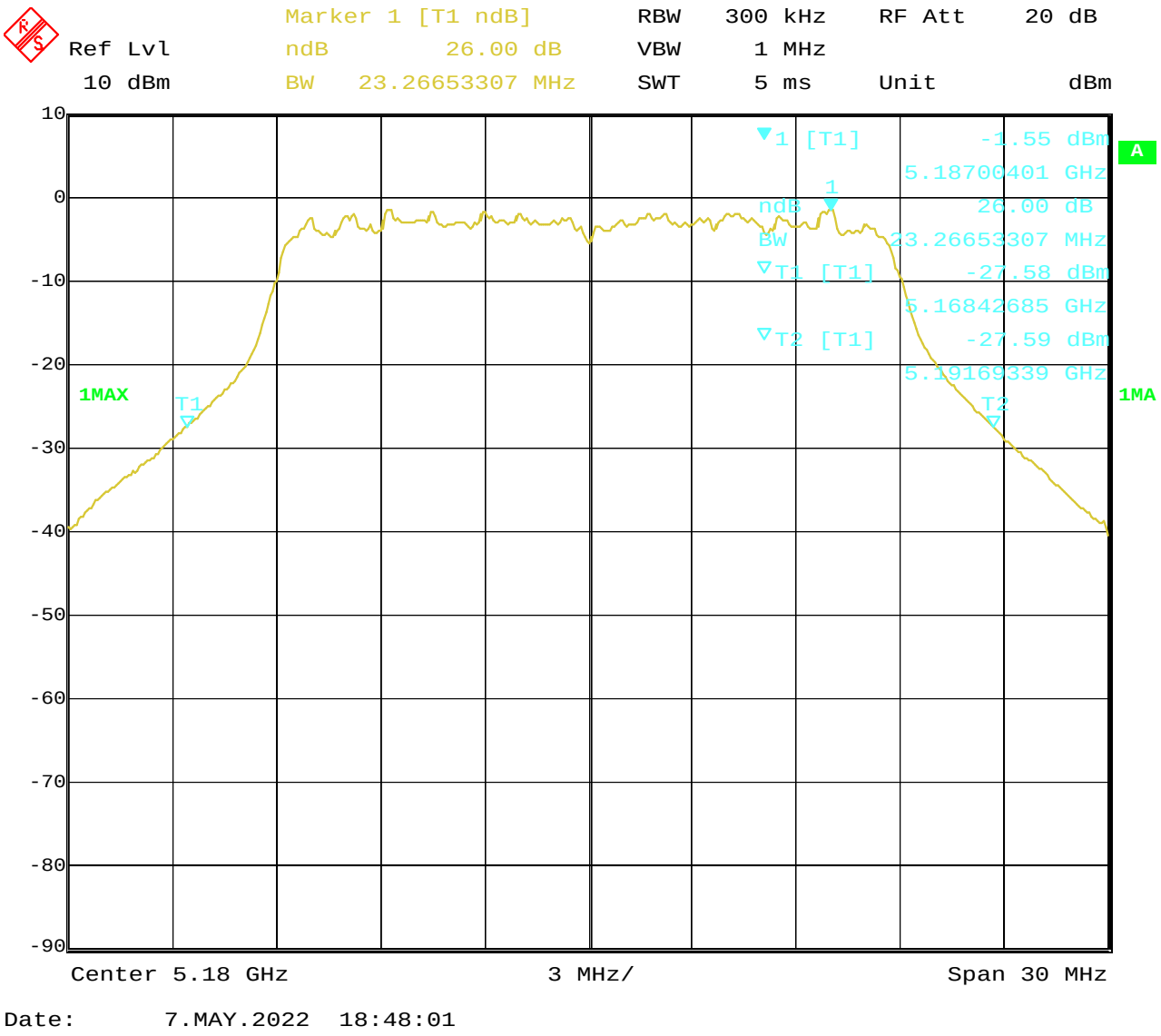
Test Configure

26dB Bandwidth

Channel 36



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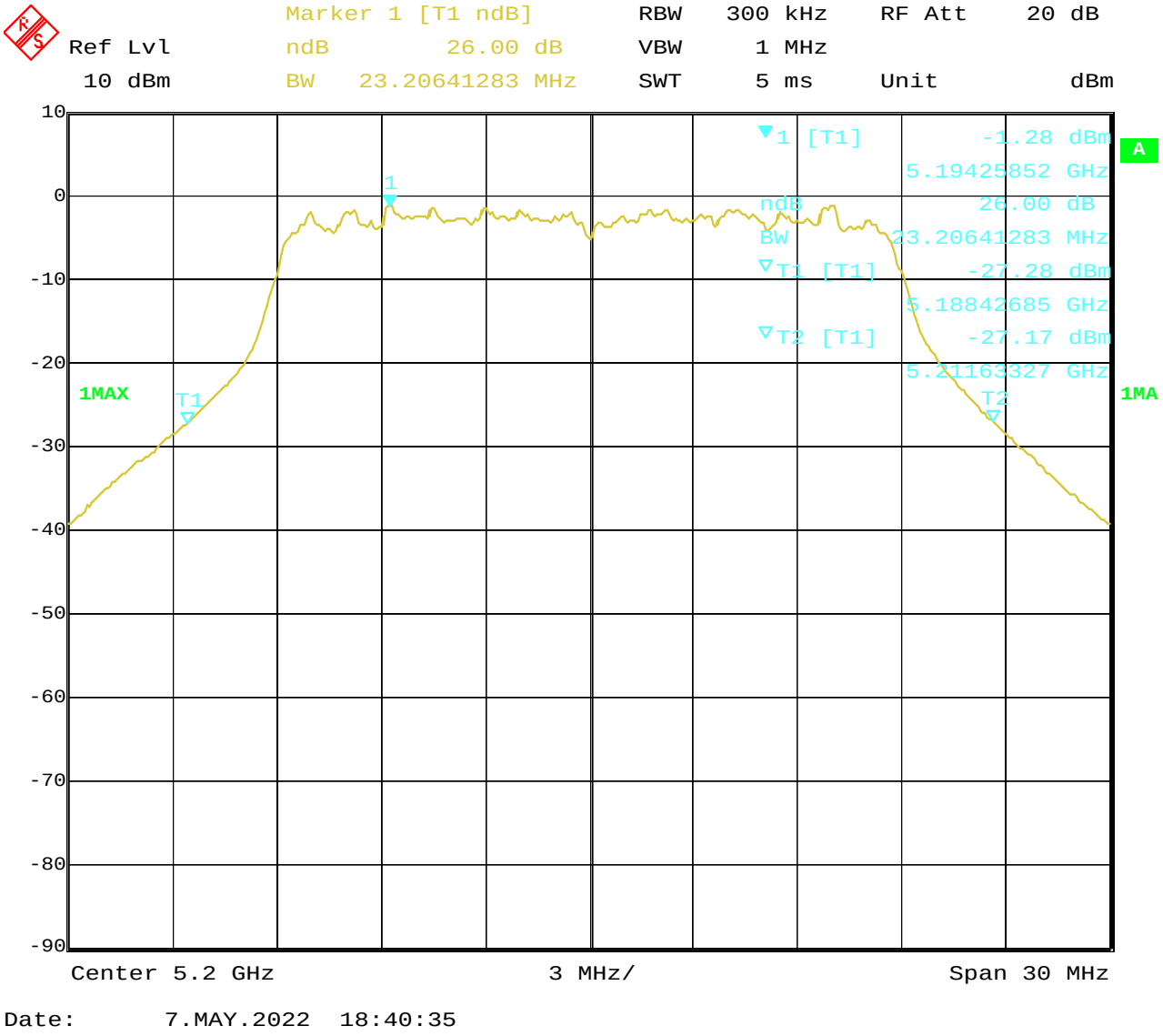
Channel 40



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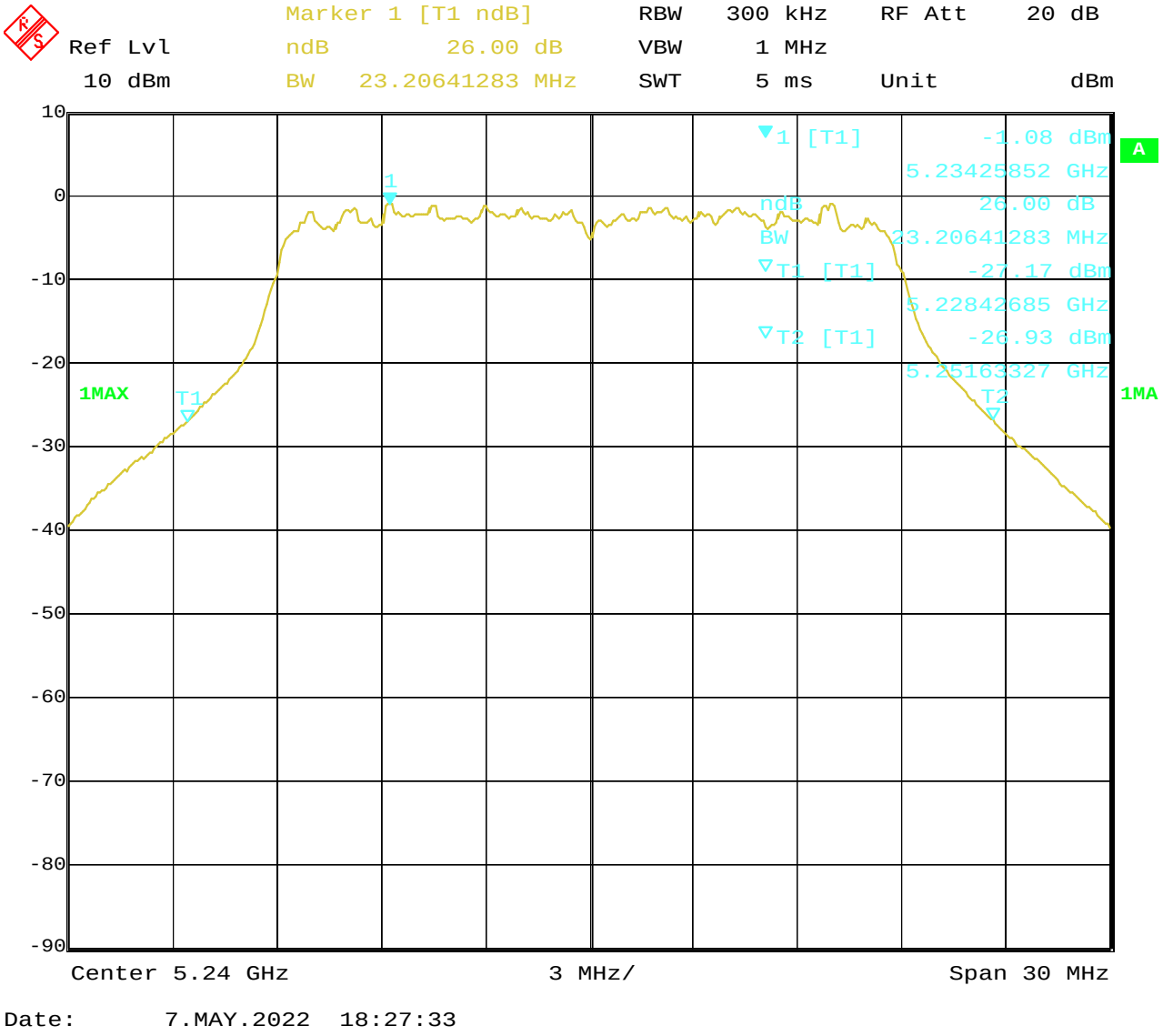
Channel 48



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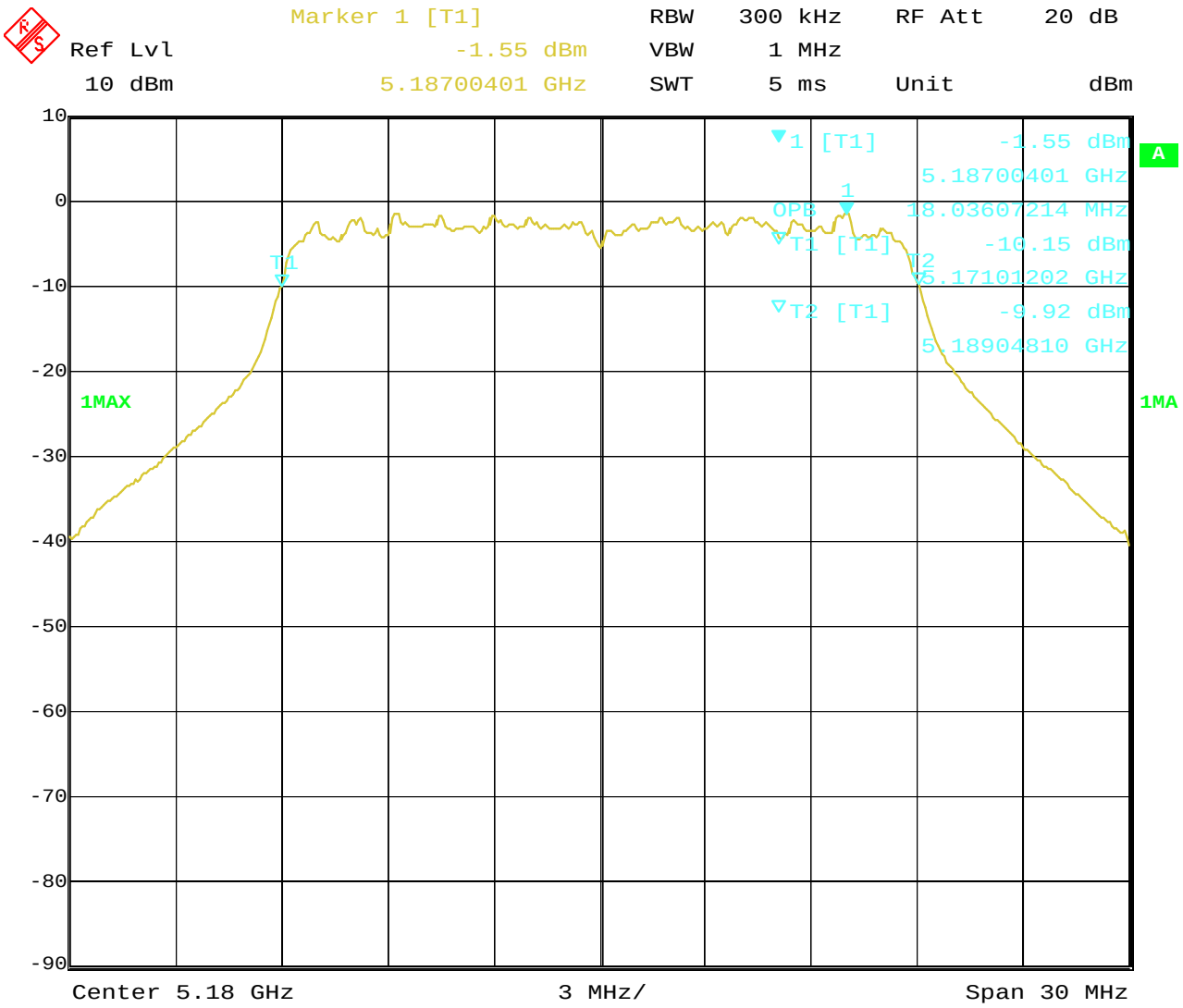
Test Configure

99% Bandwidth

Channel 36



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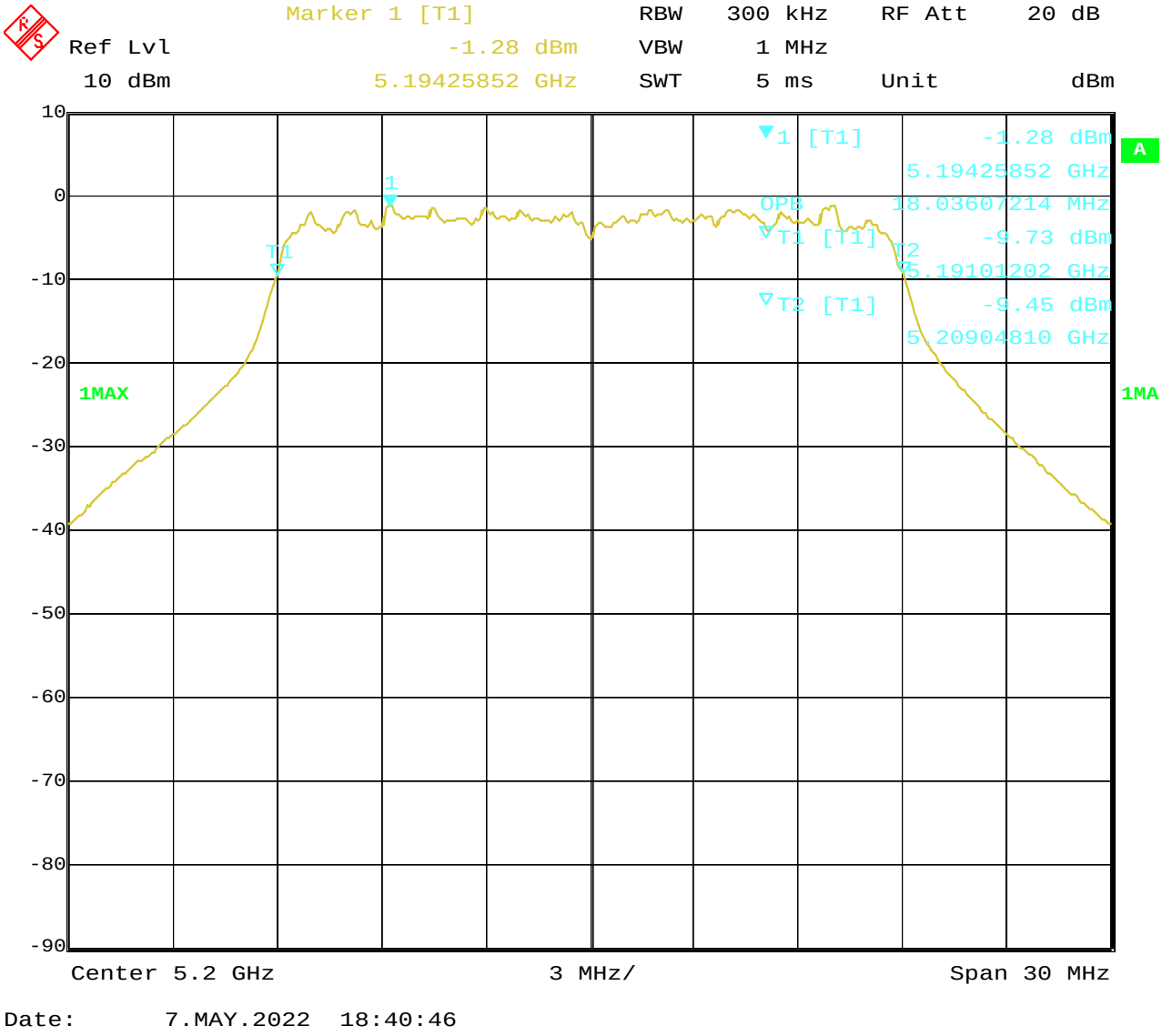
Channel 40



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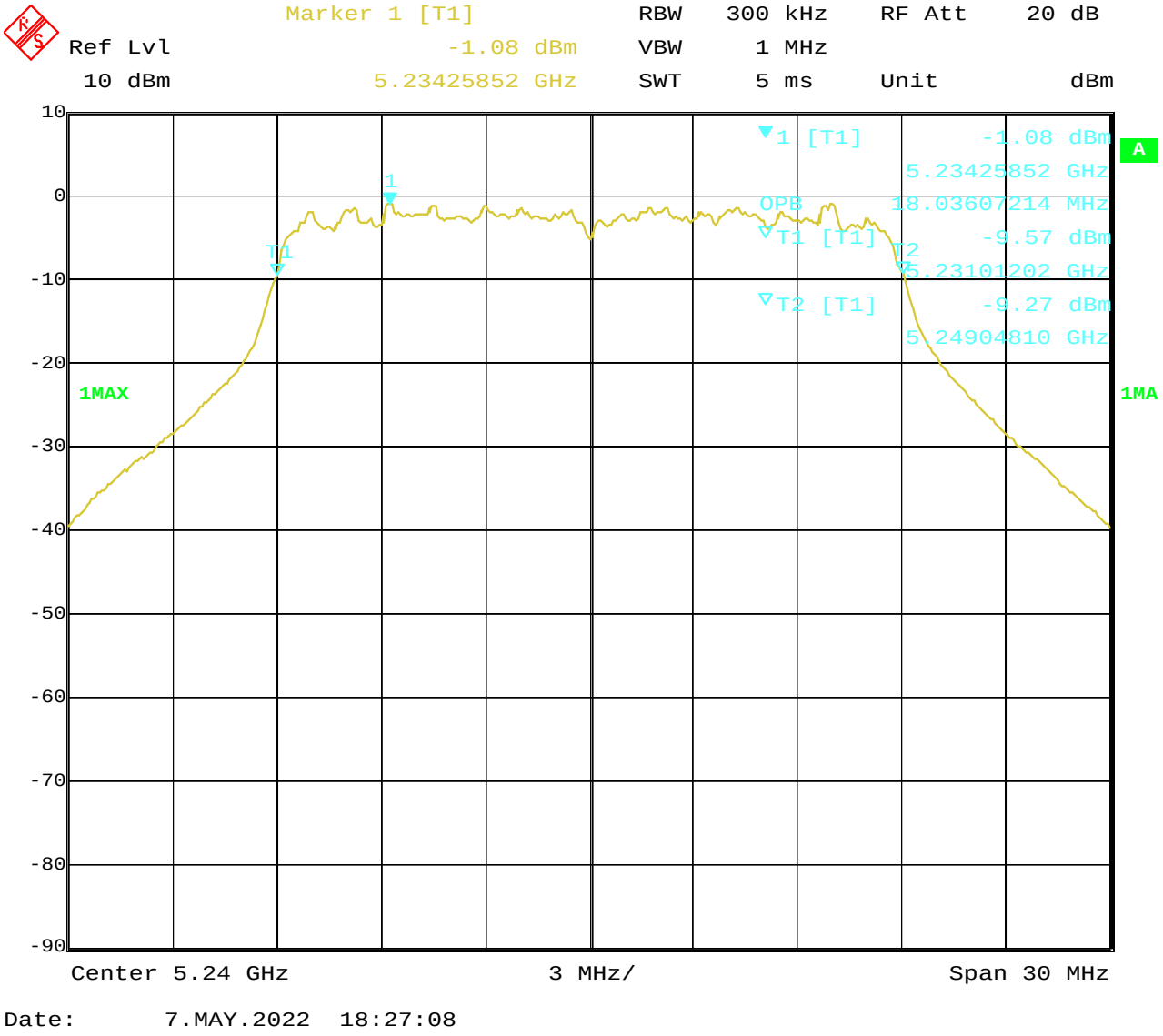
Channel 48



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EUT	Tablet PC	Model	K13
Mode	802.11n HT20	Input Voltage	DC3.7V
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	23.27	--	Pass
153	5765	6	23.15	--	Pass
161	5825	6	23.15	--	Pass
6dB Bandwidth					
149	5745	6	17.58	0.5	Pass
153	5765	6	17.62	0.5	Pass
161	5825	6	17.49	0.5	Pass
99% Bandwidth					
149	5745	6	18.04	--	Pass
153	5765	6	18.04	--	Pass
161	5825	6	18.04	--	Pass

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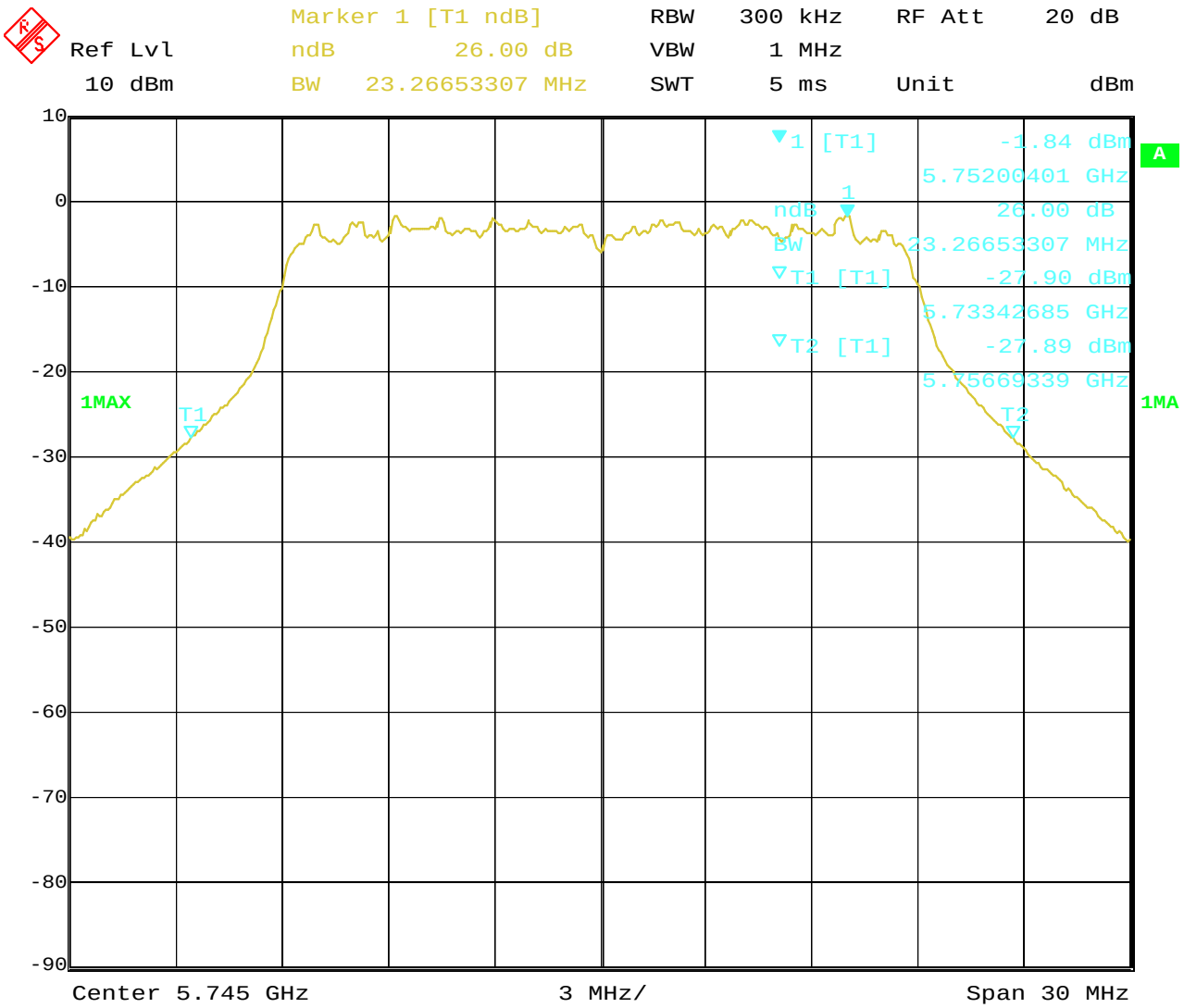
Test Configure

26dB Bandwidth

Channel 149



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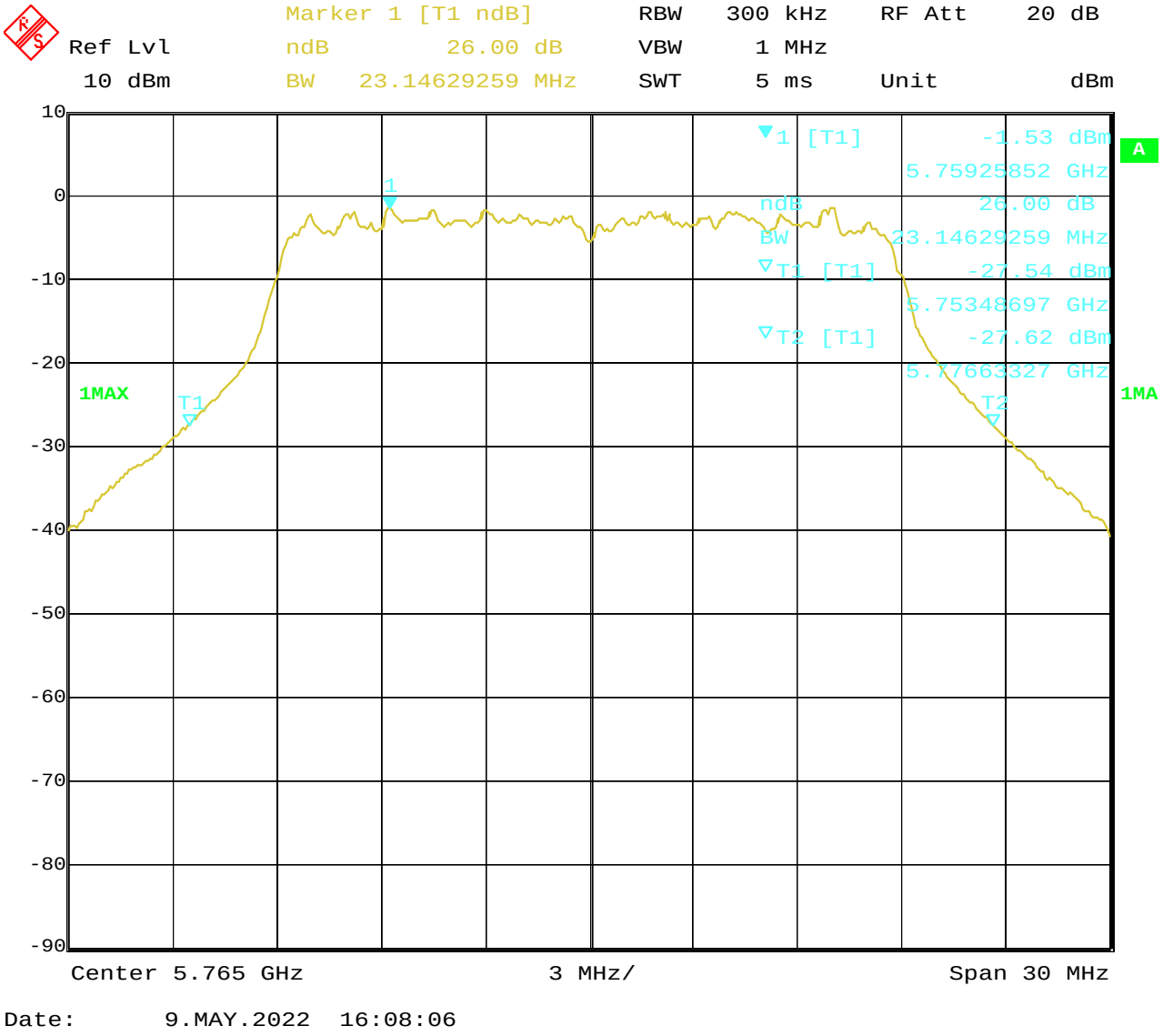
Channel 153



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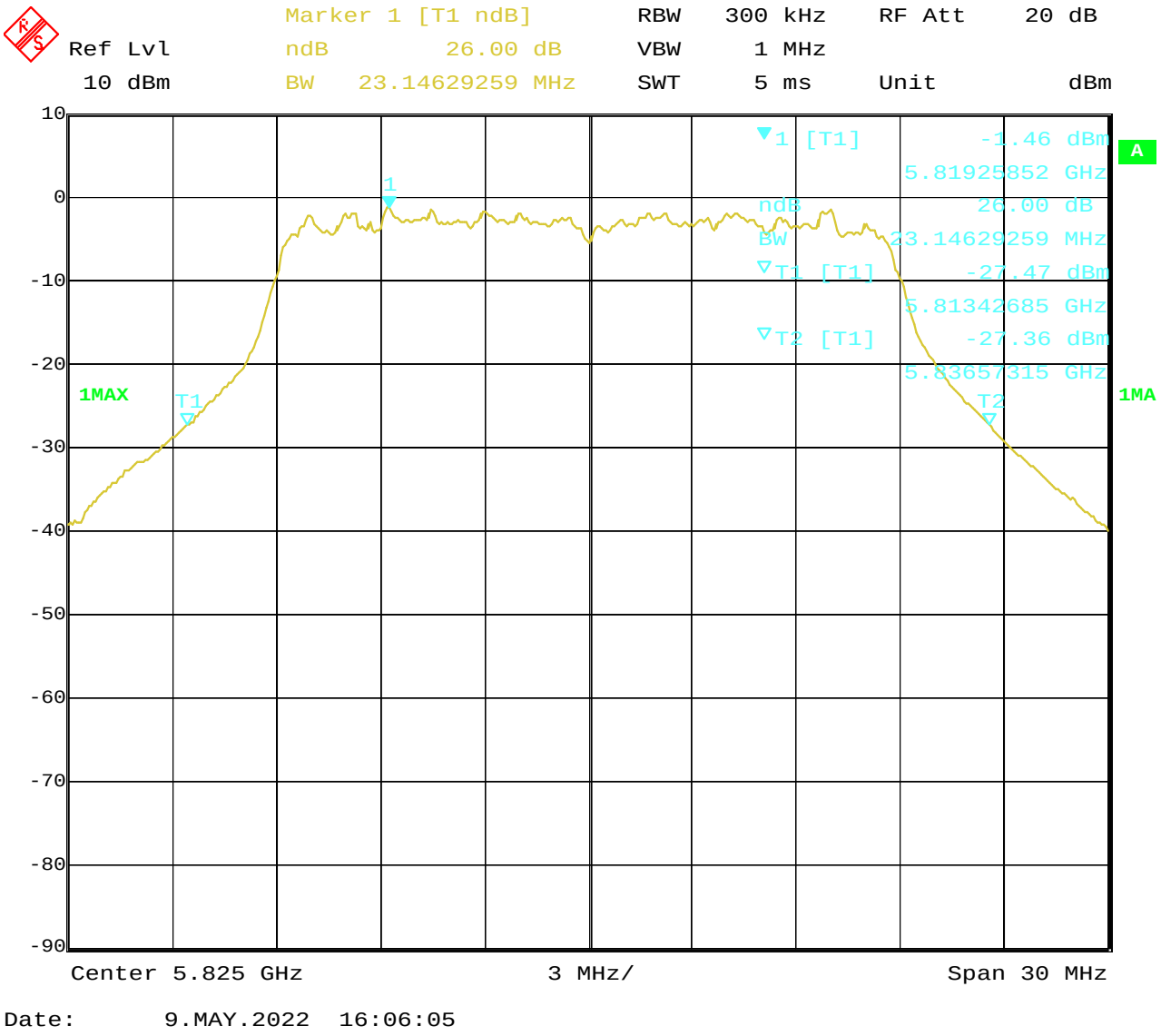
Channel 161



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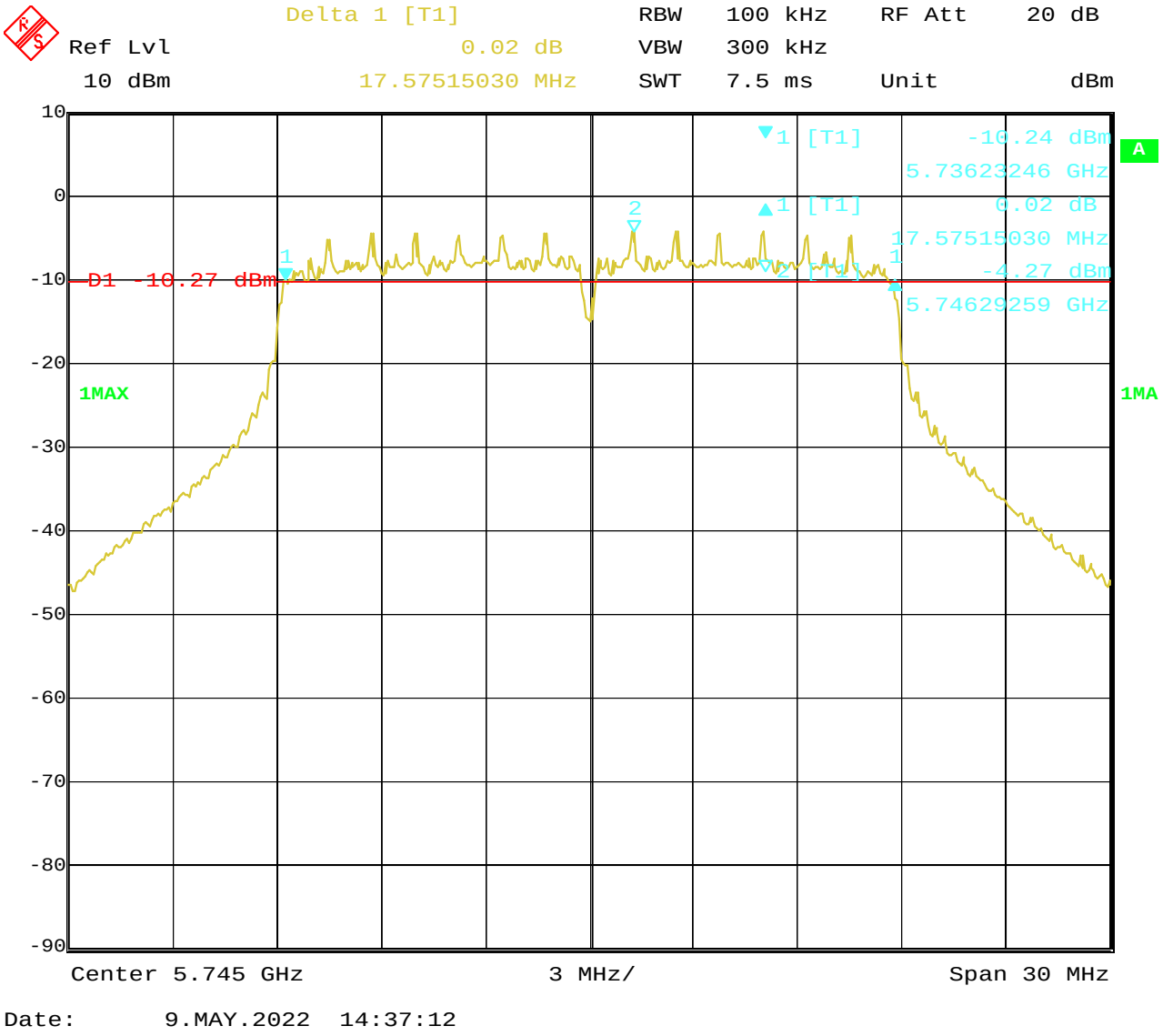
Test Configure

6dB Bandwidth

Channel 149



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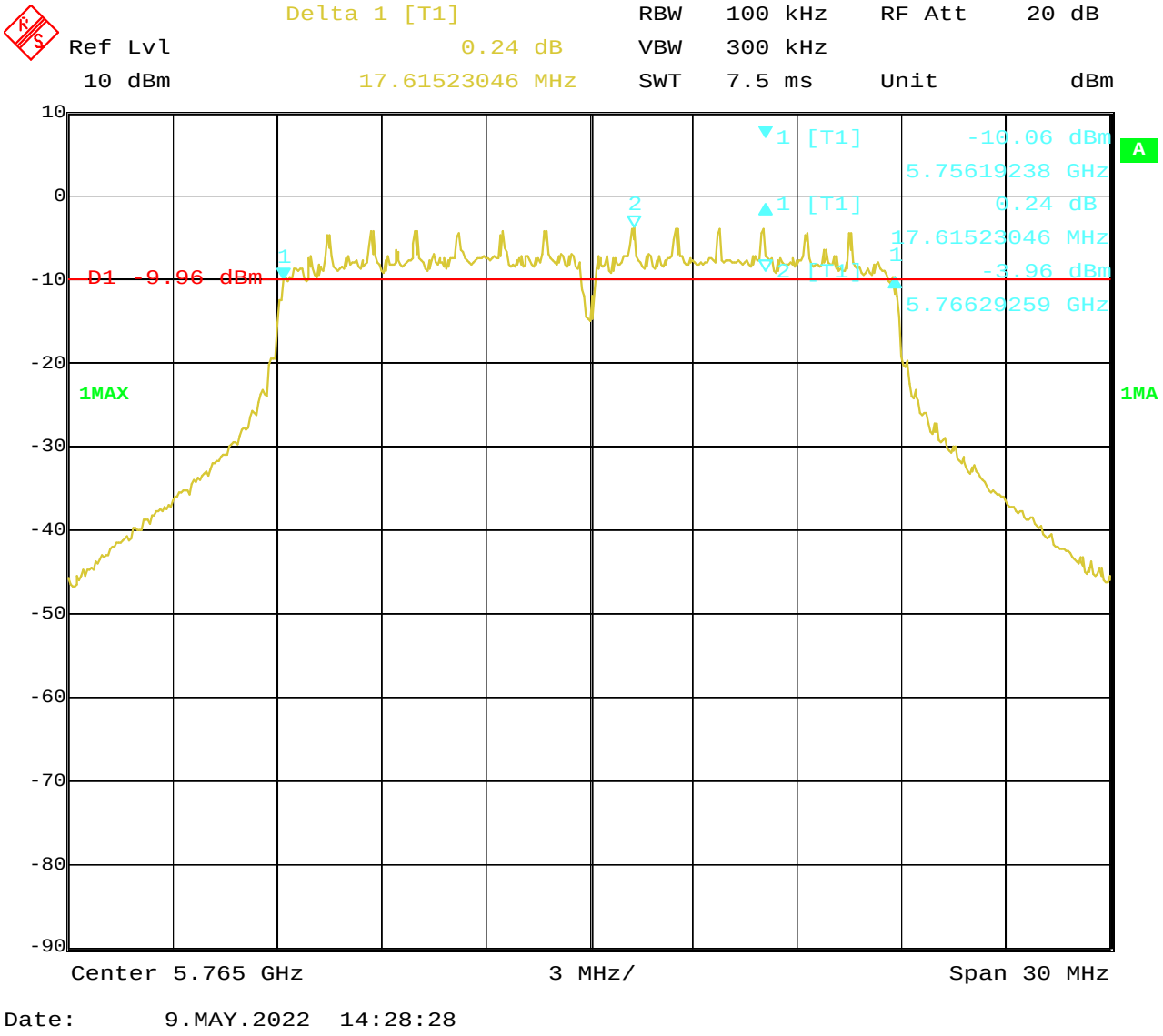
Channel 153



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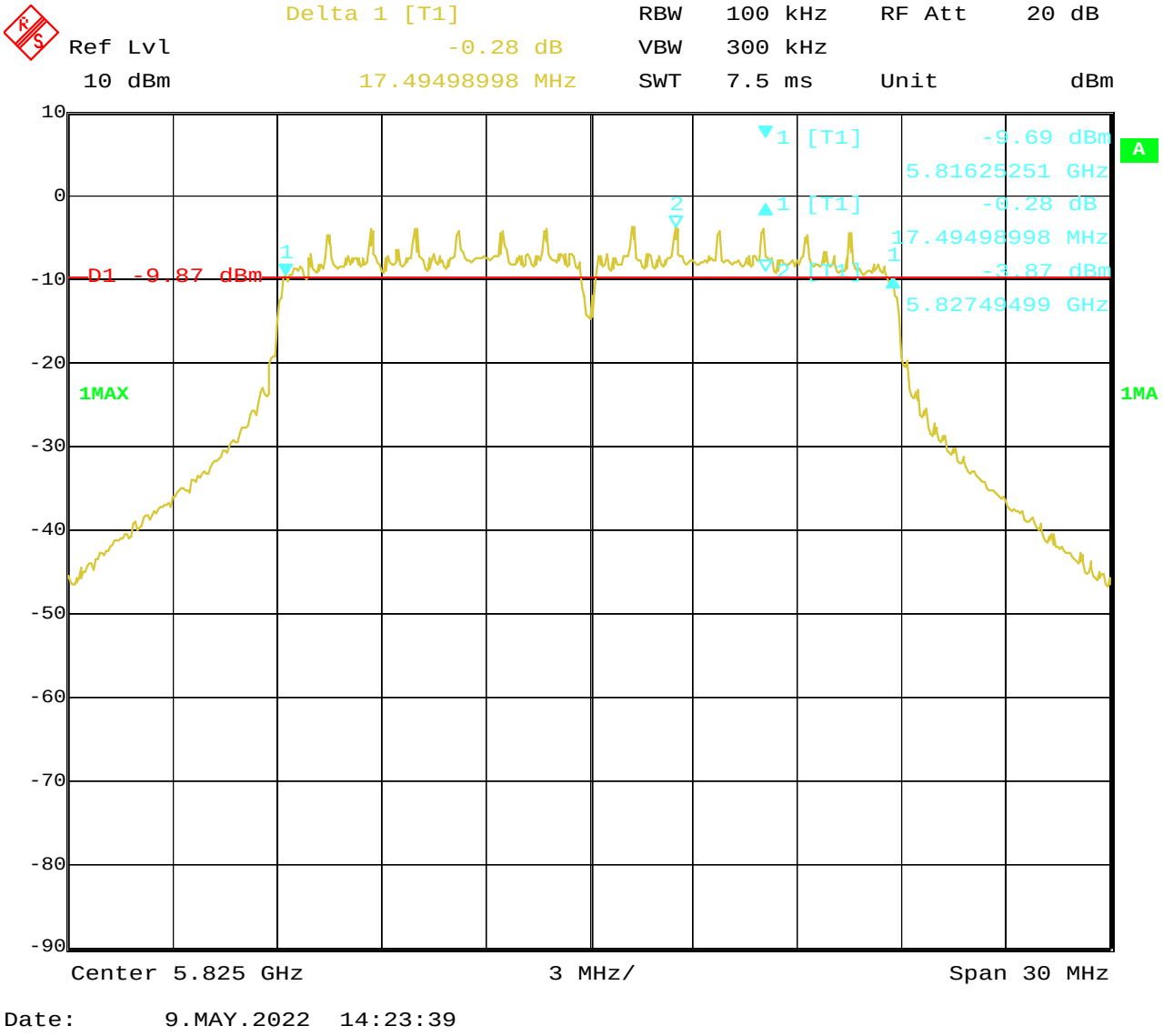
Channel 161



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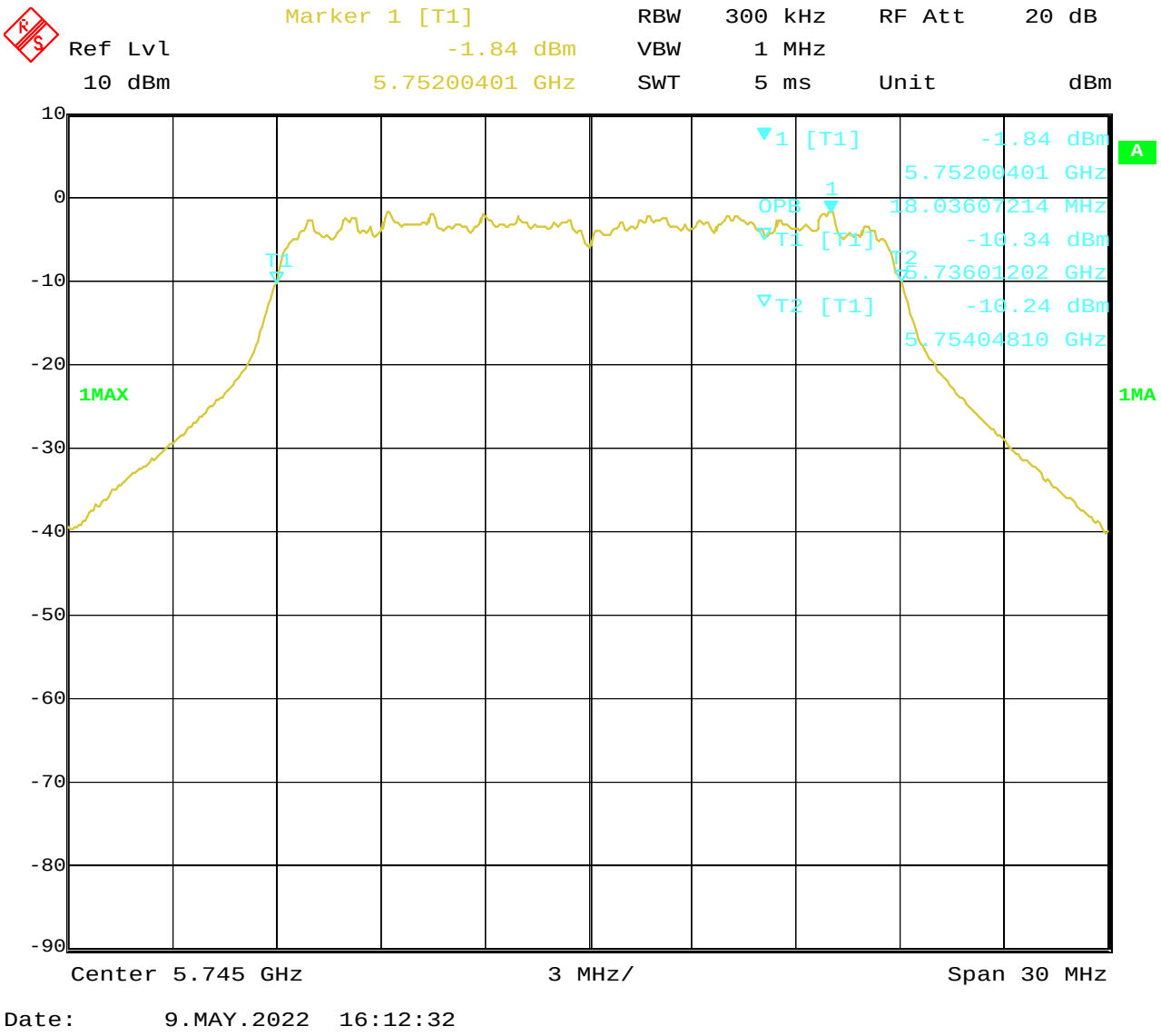
Test Configure

99% Bandwidth

Channel 149



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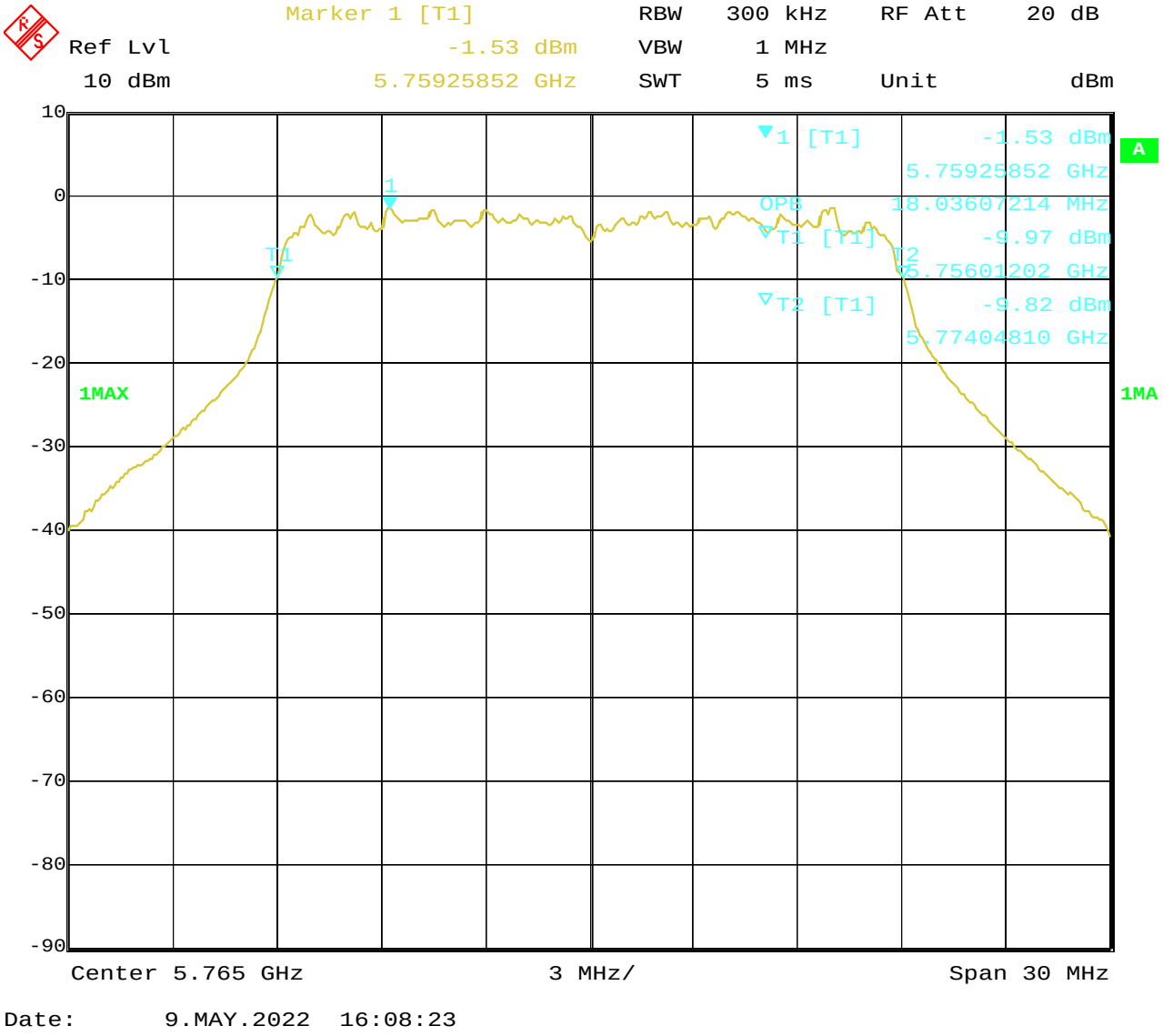
Channel 153



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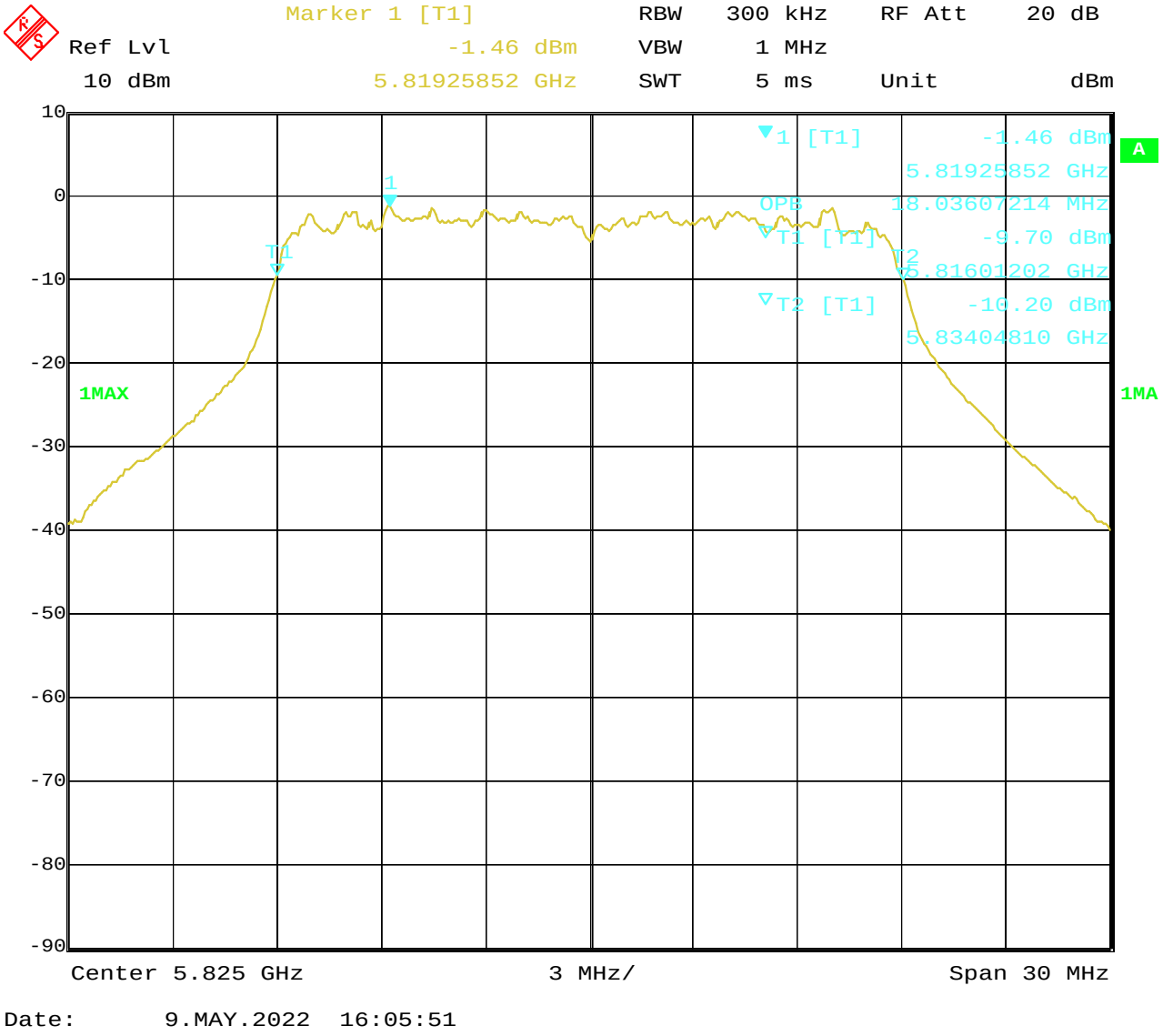
Channel 161



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EUT	Tablet PC	Model	K13
Mode	802.11n HT40	Input Voltage	DC3.7V
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	45.57	--	Pass
46	5230	mcs0	45.57	--	Pass
99% Bandwidth					
38	5190	mcs0	37.27	--	Pass
46	5230	mcs0	37.27	--	Pass

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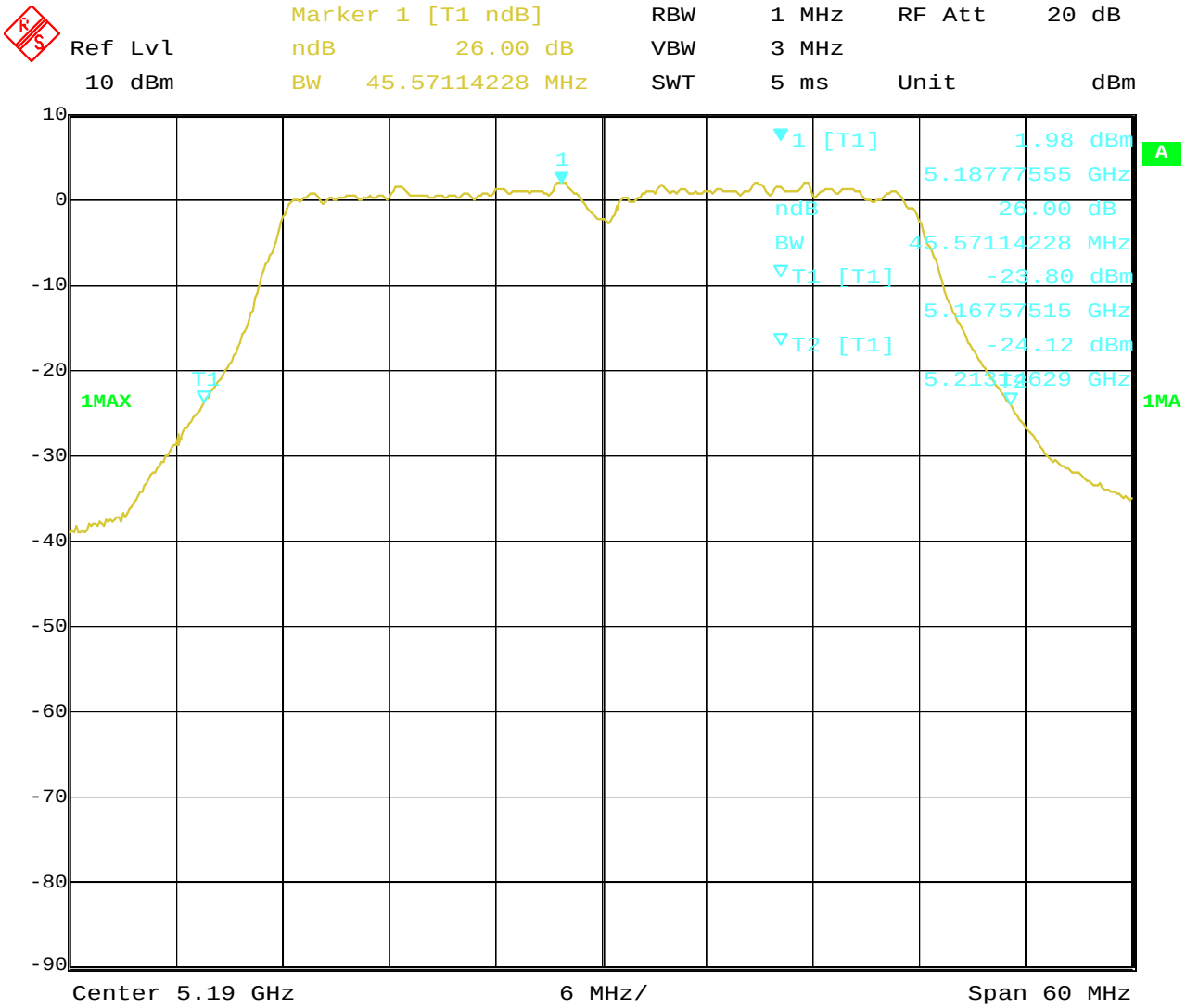
Test Configure

26dB Bandwidth

Channel 38



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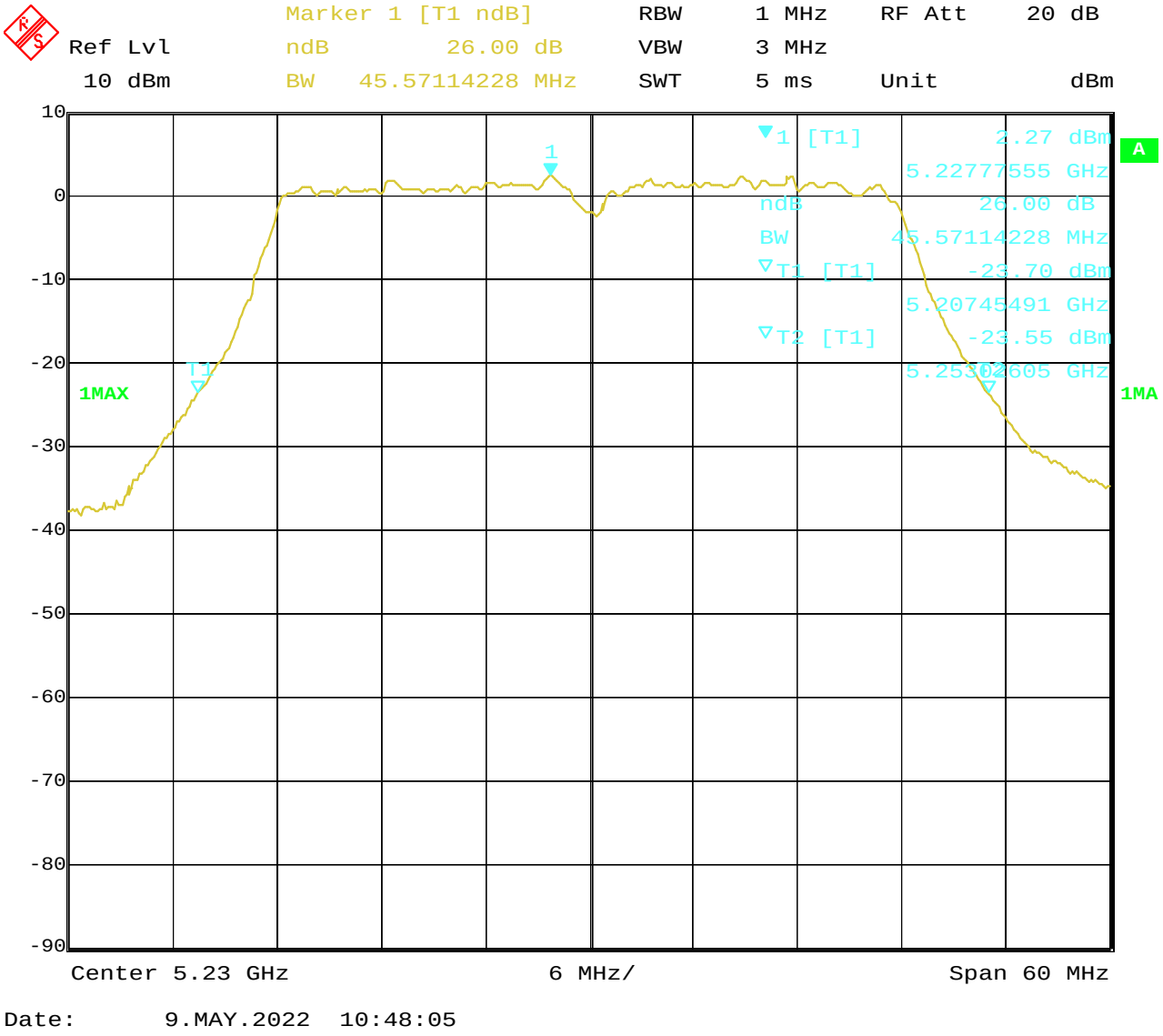
Channel 46



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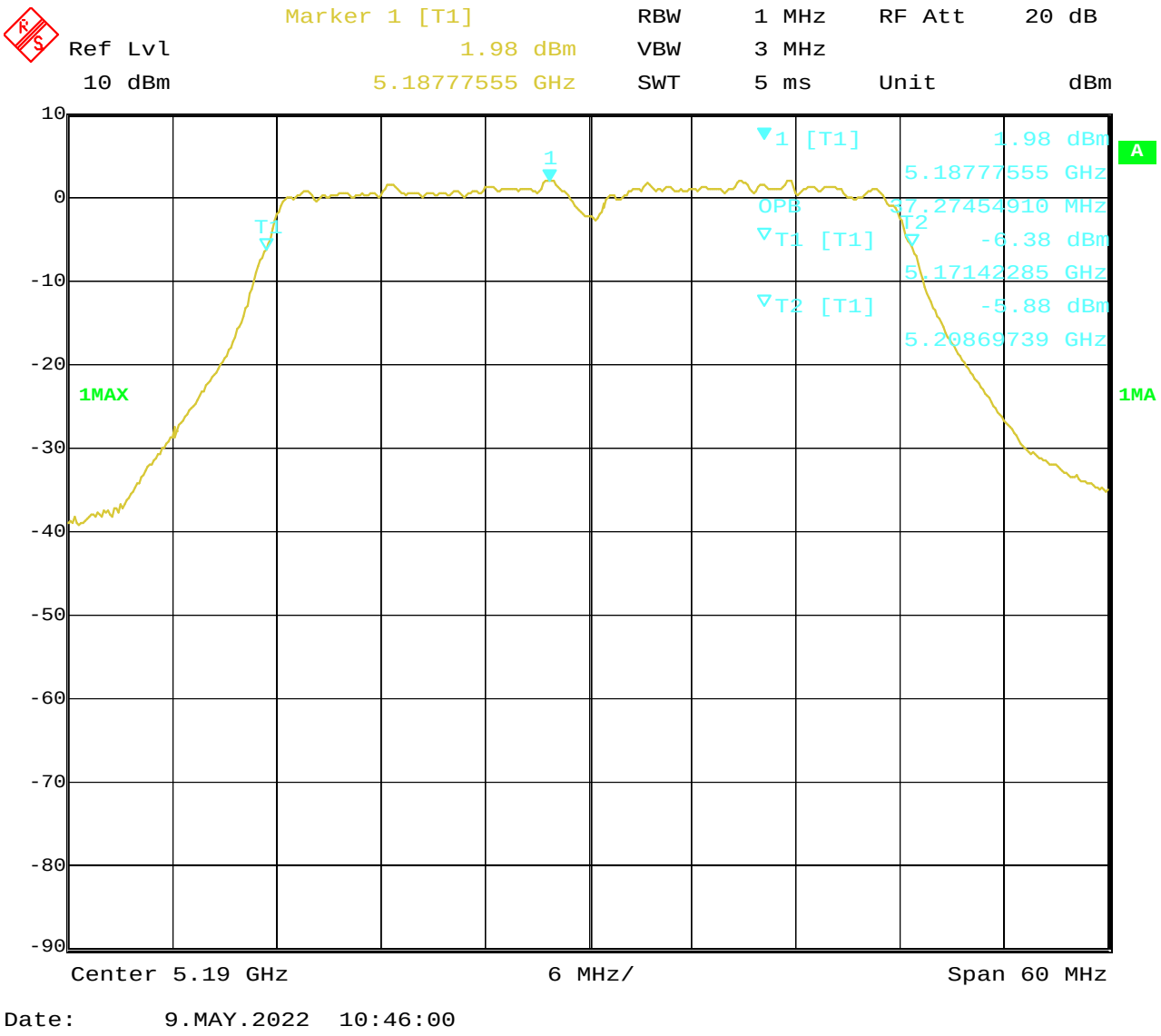
Test Configure

99% Bandwidth

Channel 38



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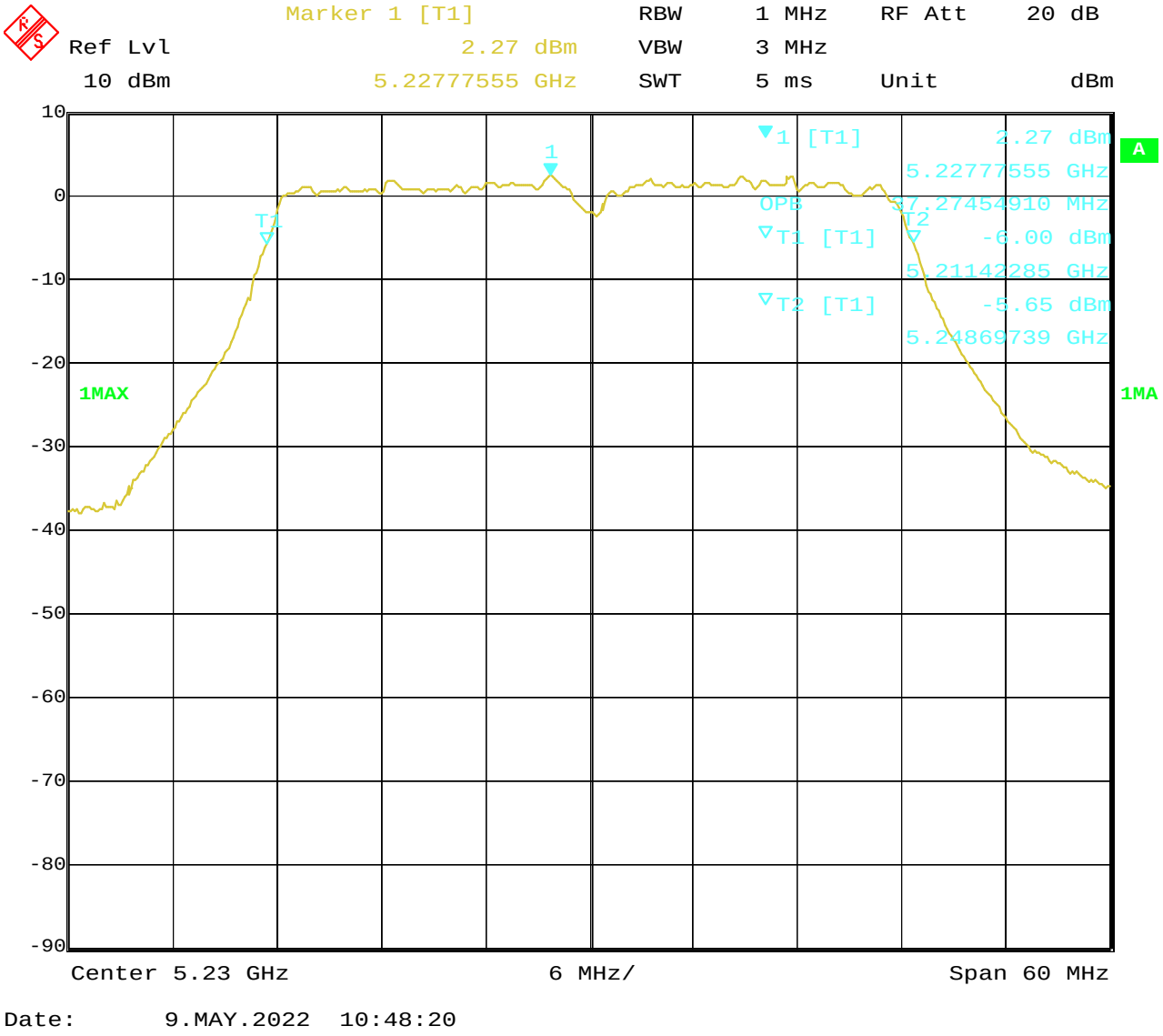

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EUT	Tablet PC	Model	K13
Mode	802.11n HT40	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
151	5755	mcs0	45.57	--	Pass
159	5795	mcs0	45.57	--	Pass
6dB Bandwidth					
151	5755	mcs0	36.31	0.5	Pass
159	5795	mcs0	35.90	0.5	Pass
99% Bandwidth					
151	5755	mcs0	37.27	--	Pass
159	5795	mcs0	37.27	--	Pass

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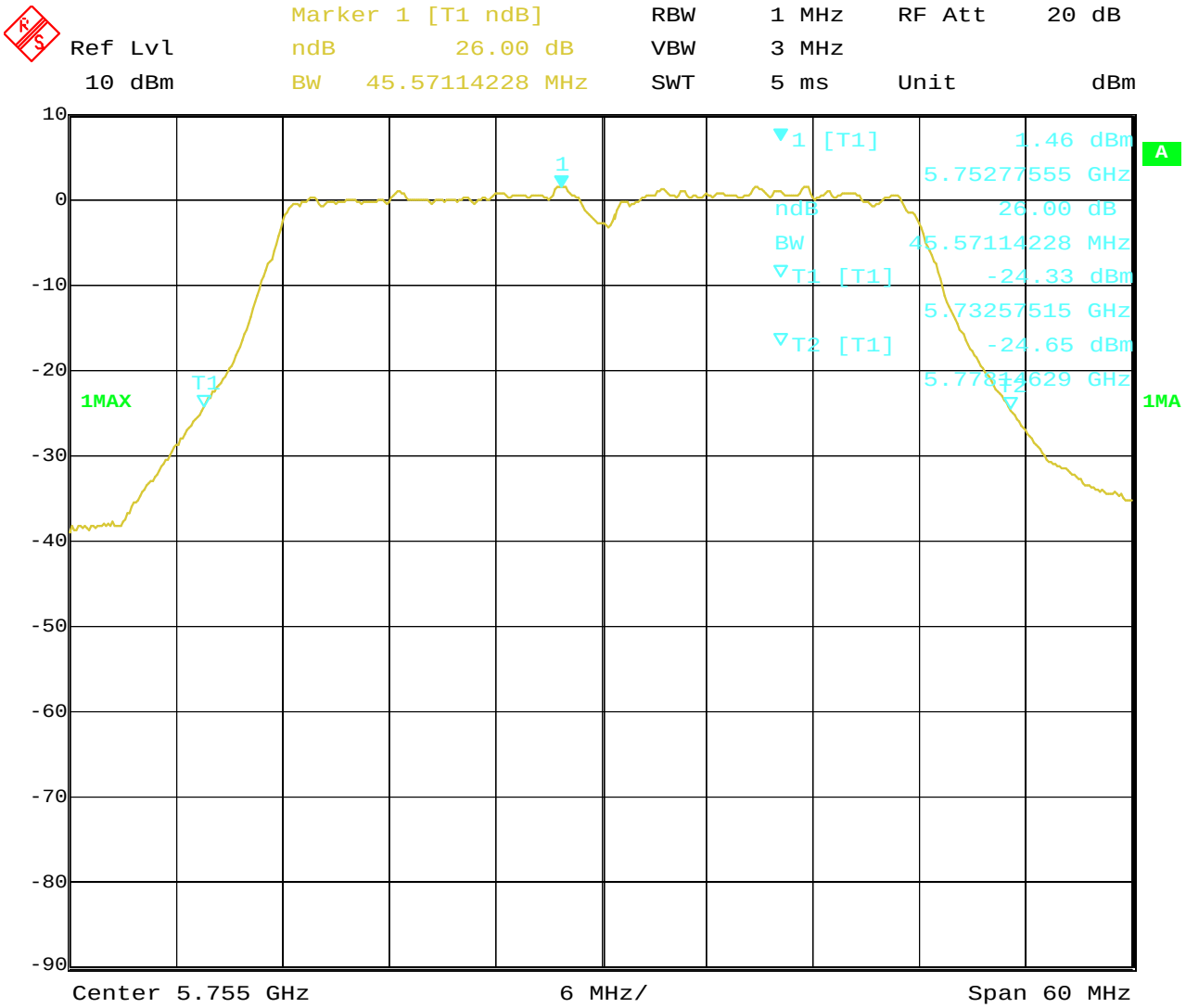
Test Configure

26dB Bandwidth

Channel 151



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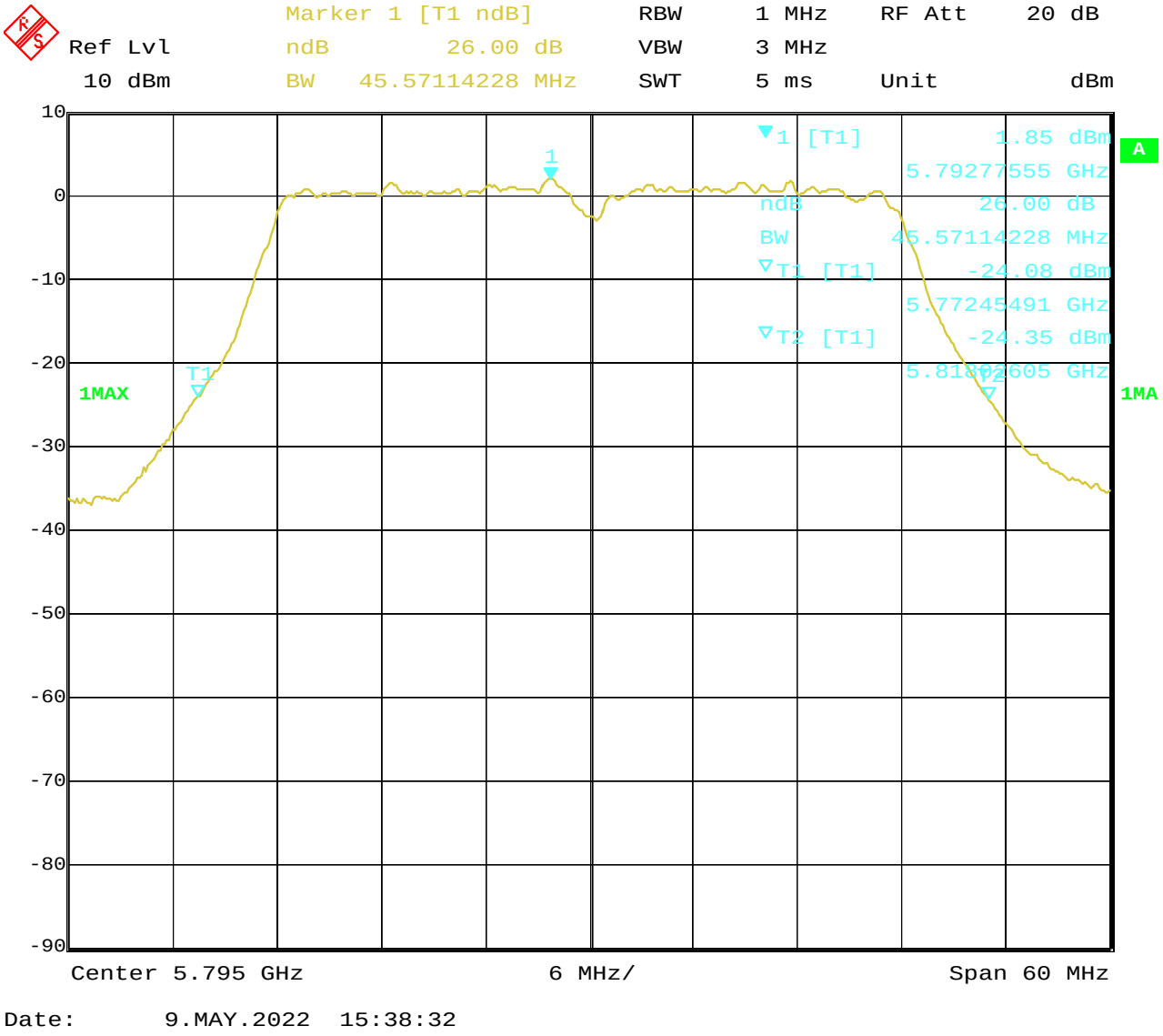

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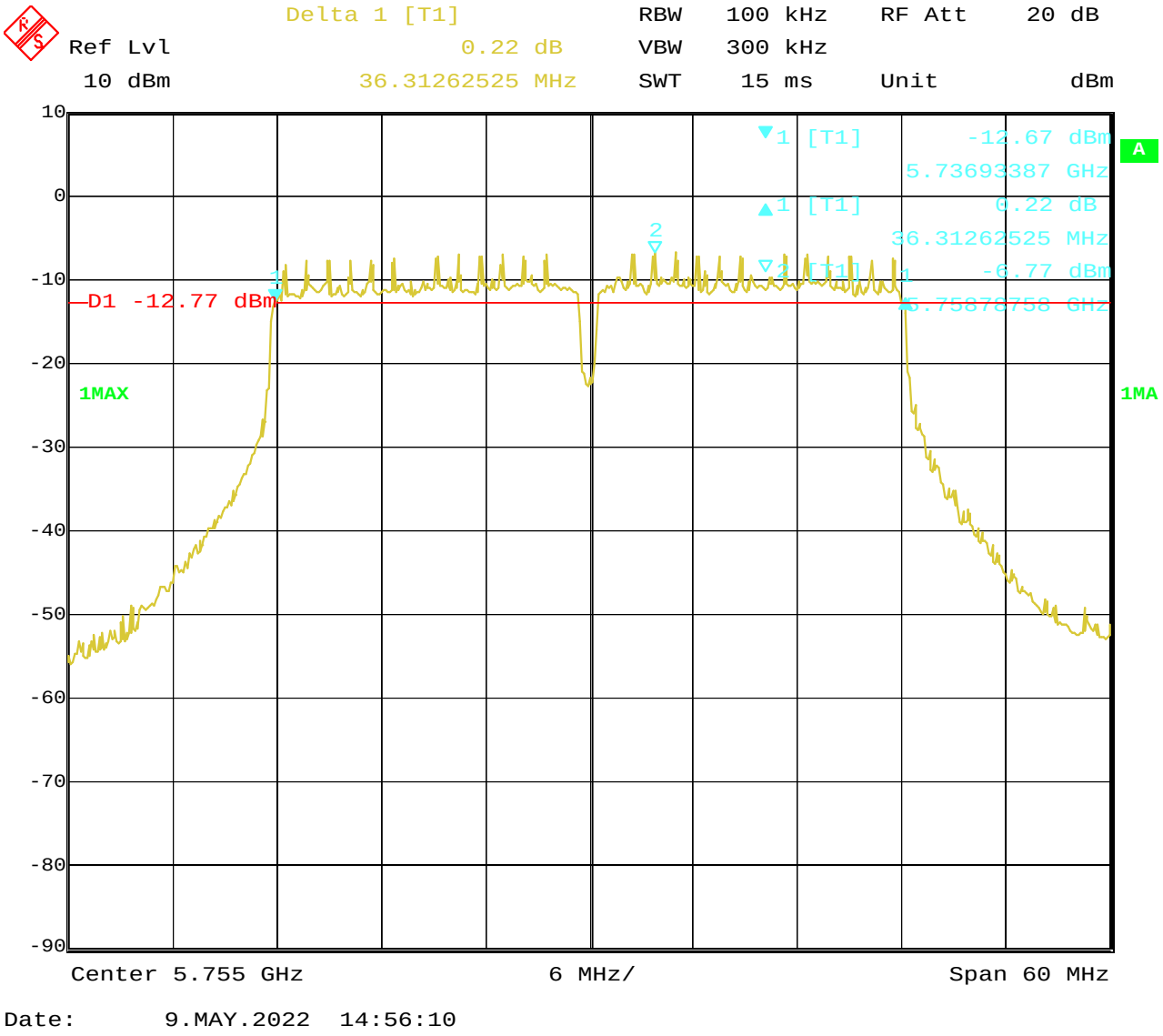
Test Configure

6dB Bandwidth

Channel 151



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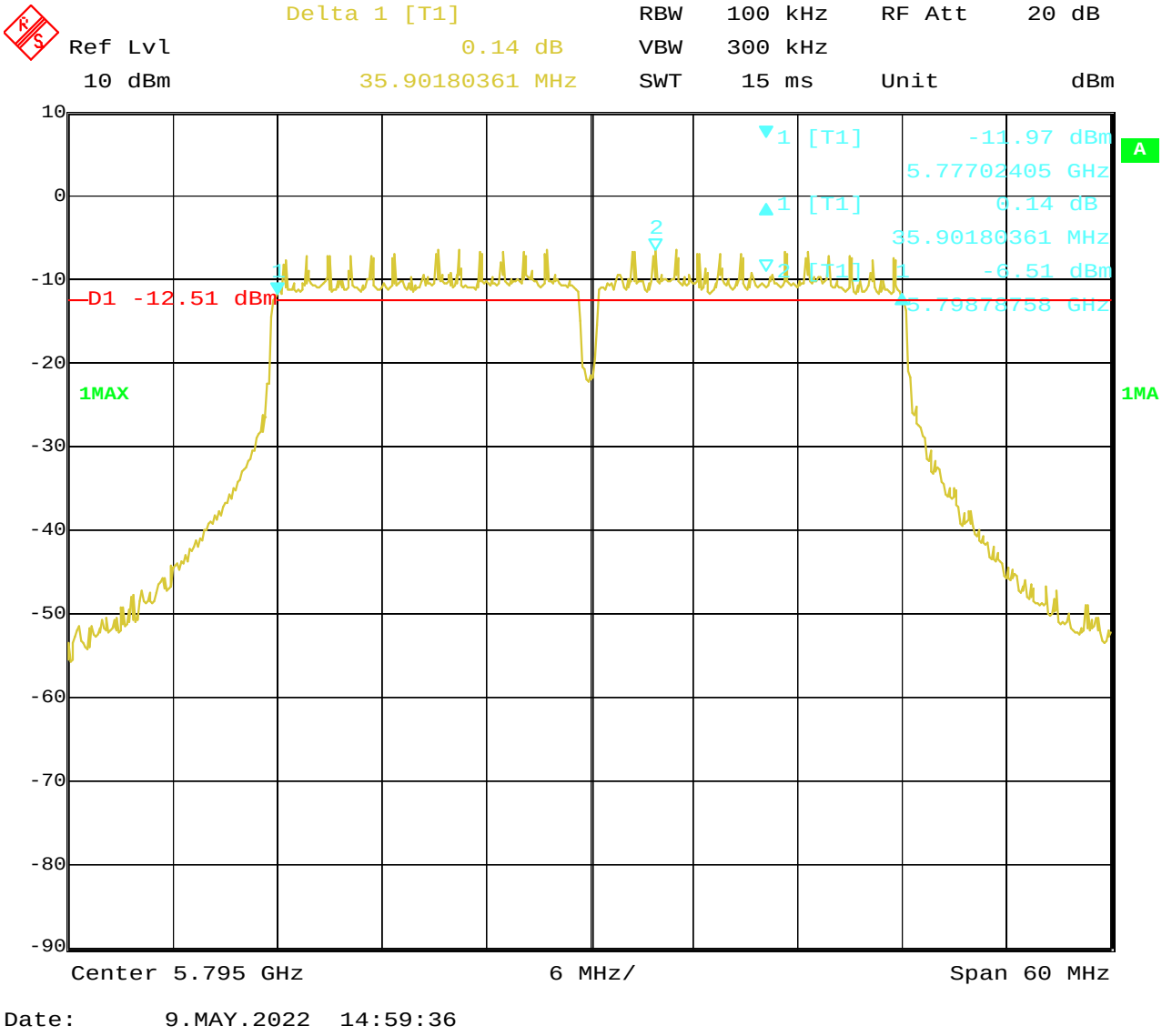
Channel 159



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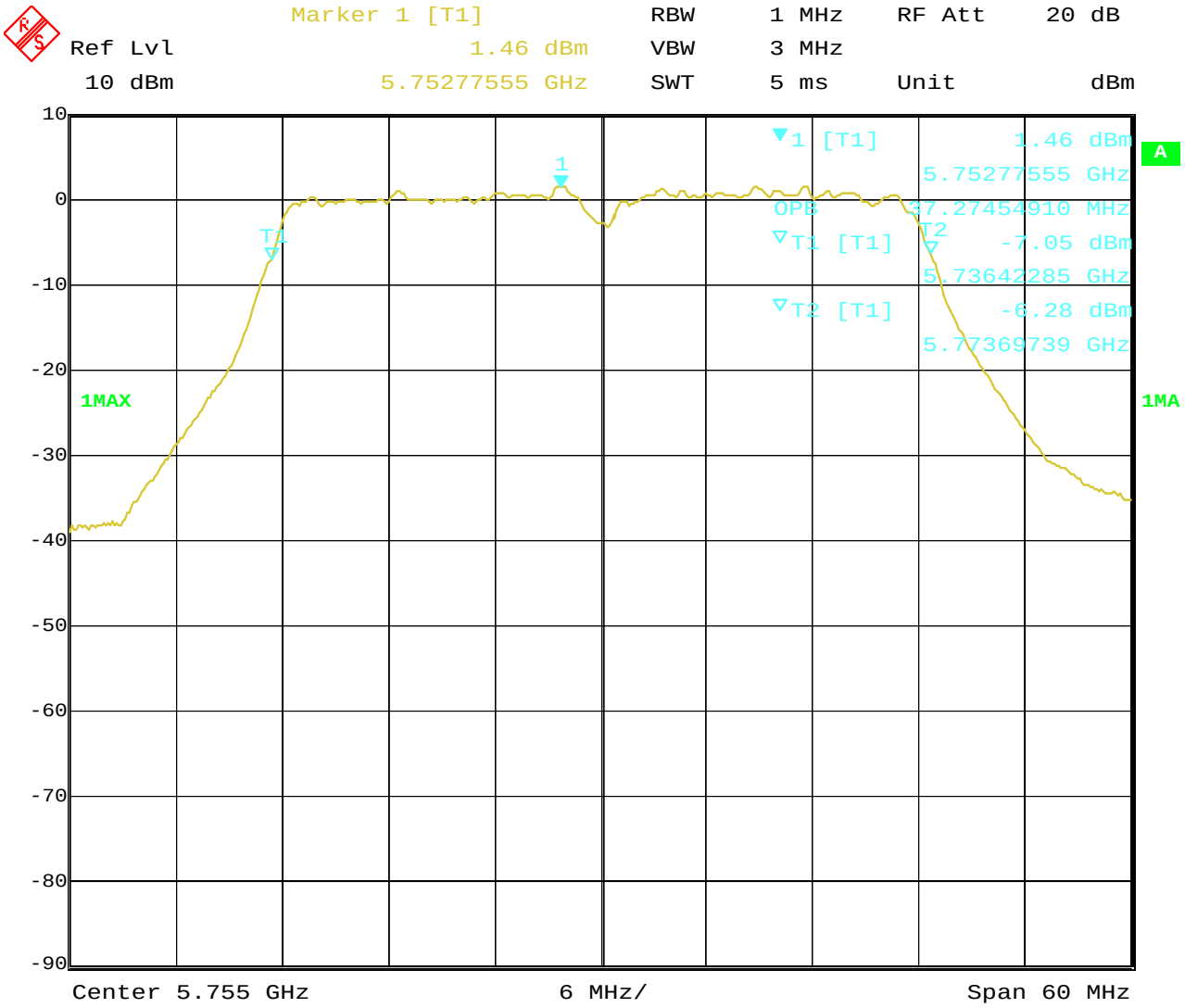
Test Configure

99% Bandwidth

Channel 151



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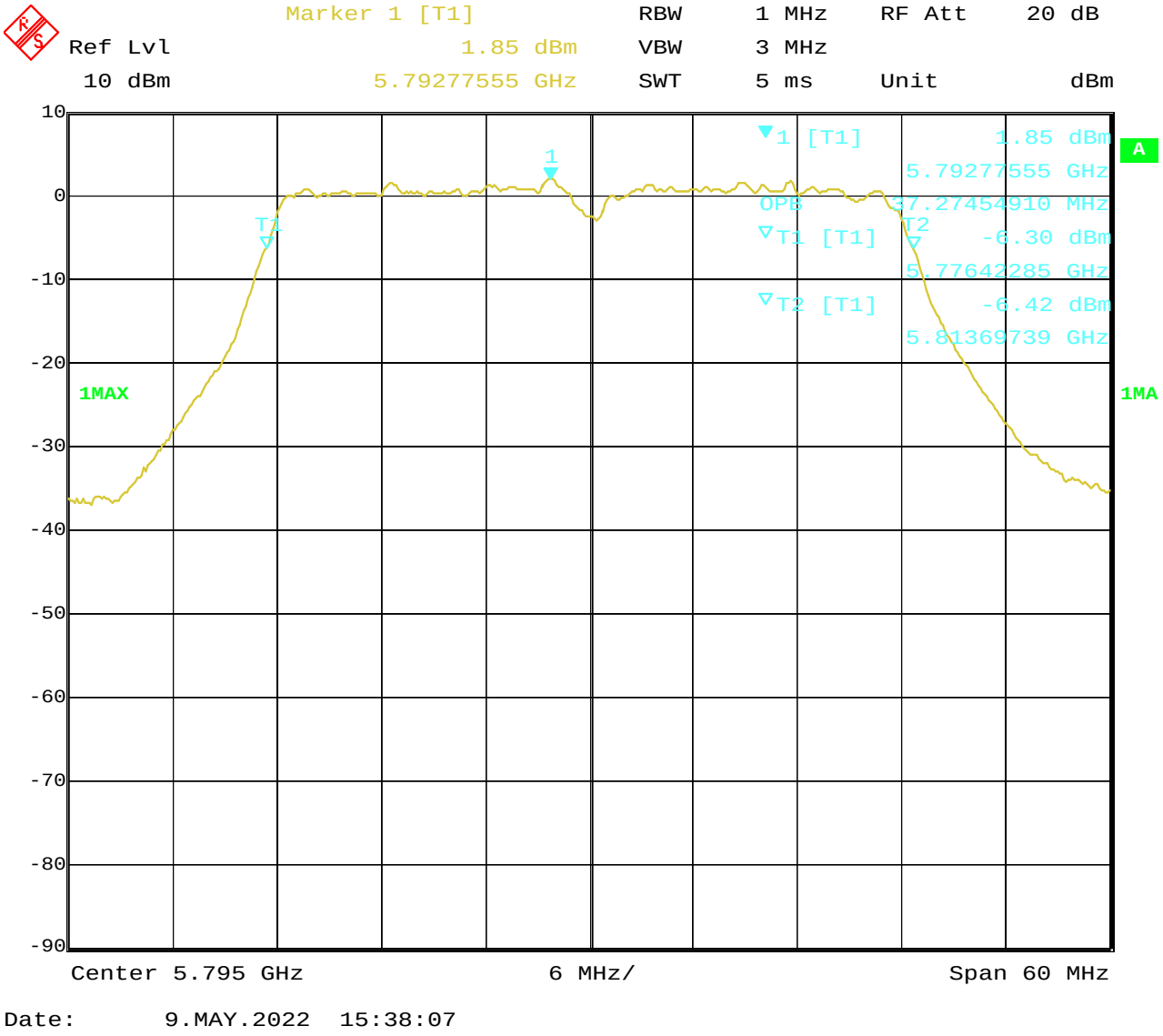

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EUT	Tablet PC	Model	K13
Mode	802.11ac VHT20	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
36	5180	mcs0	23.87	--	Pass
40	5200	mcs0	23.81	--	Pass
48	5240	mcs0	23.87	--	Pass
99% Bandwidth					
36	5180	mcs0	18.22	--	Pass
40	5200	mcs0	18.22	--	Pass
48	5240	mcs0	18.22	--	Pass

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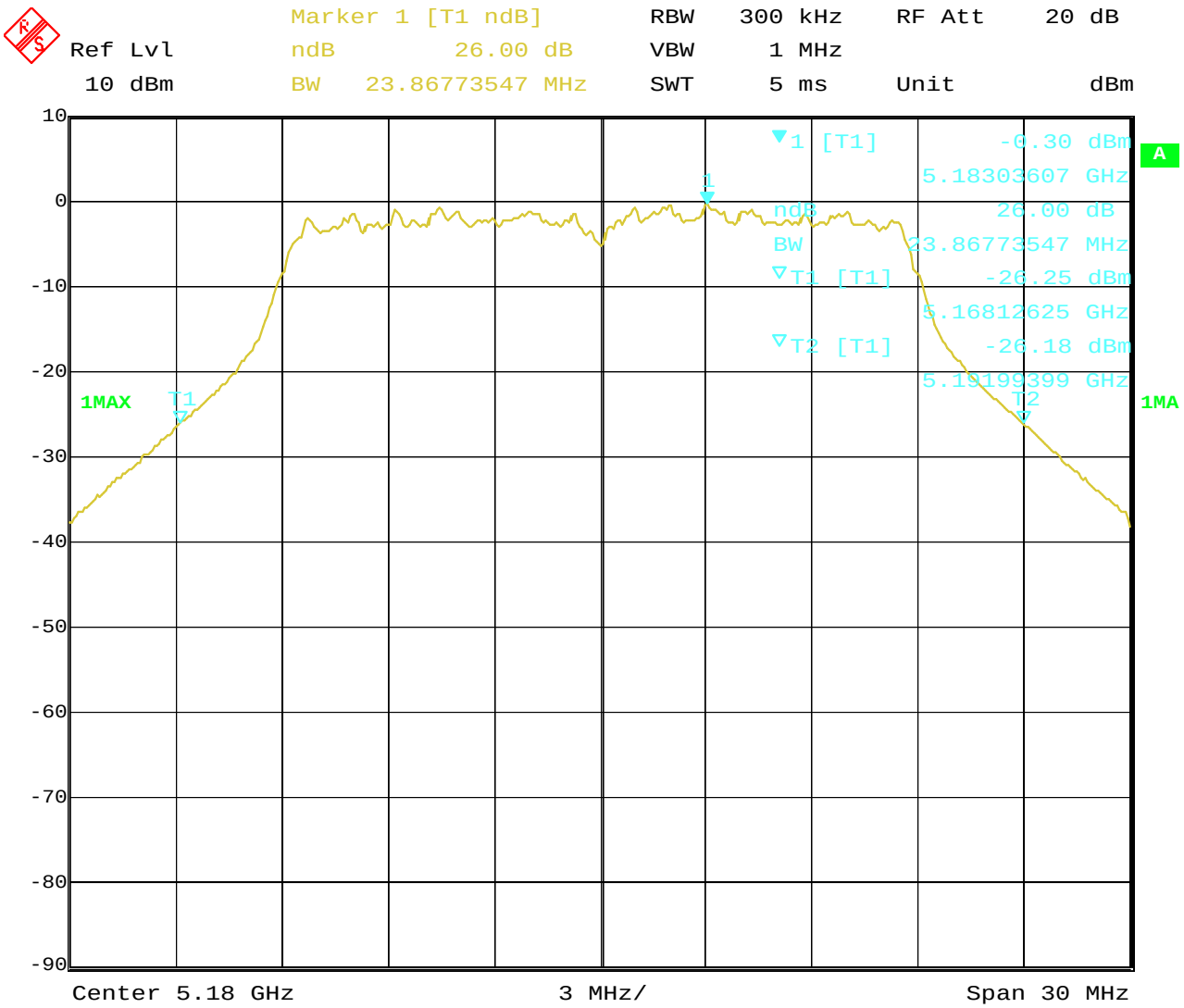
Test Configure

26dB Bandwidth

Channel 36



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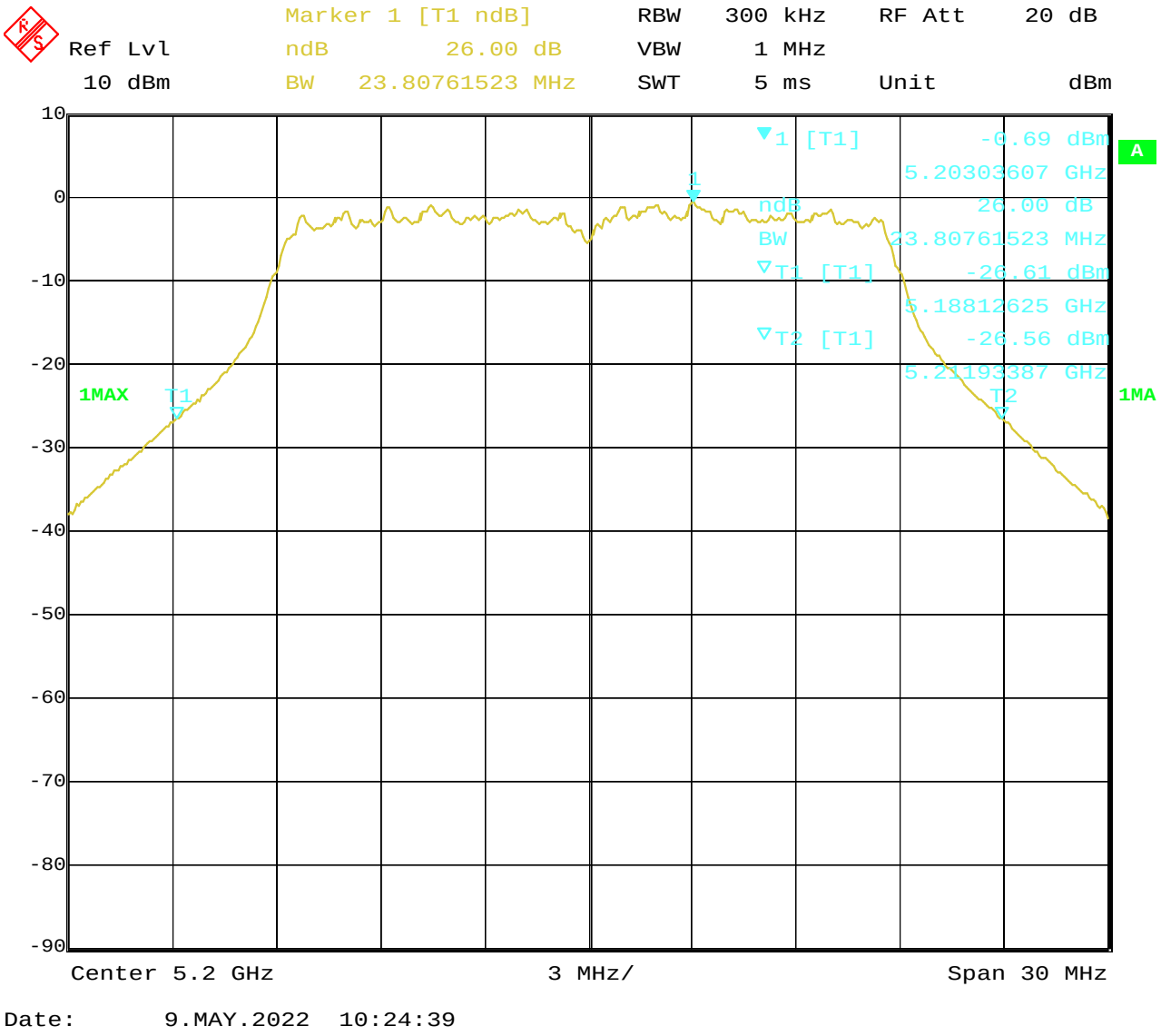
Channel 40



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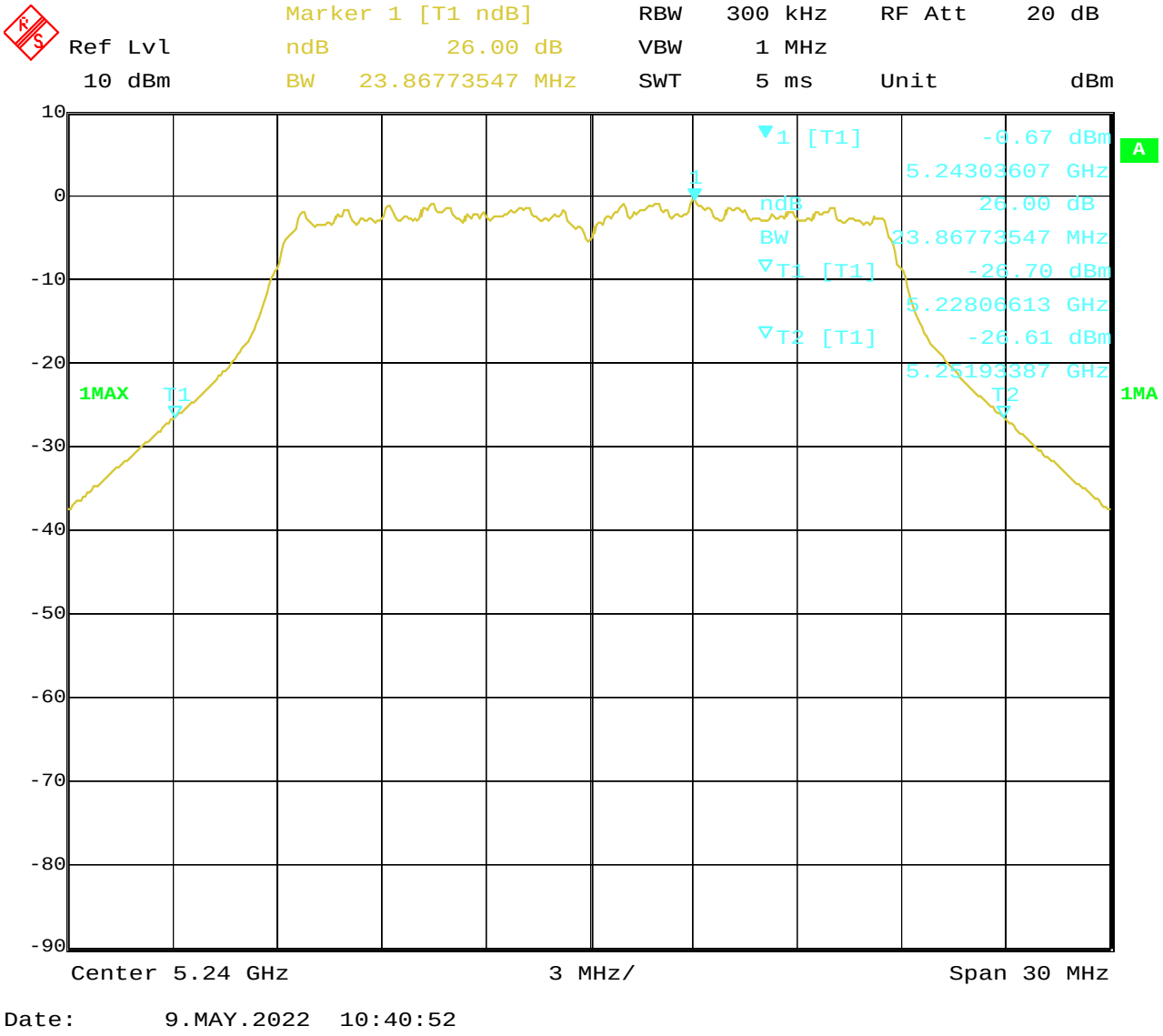
Channel 48



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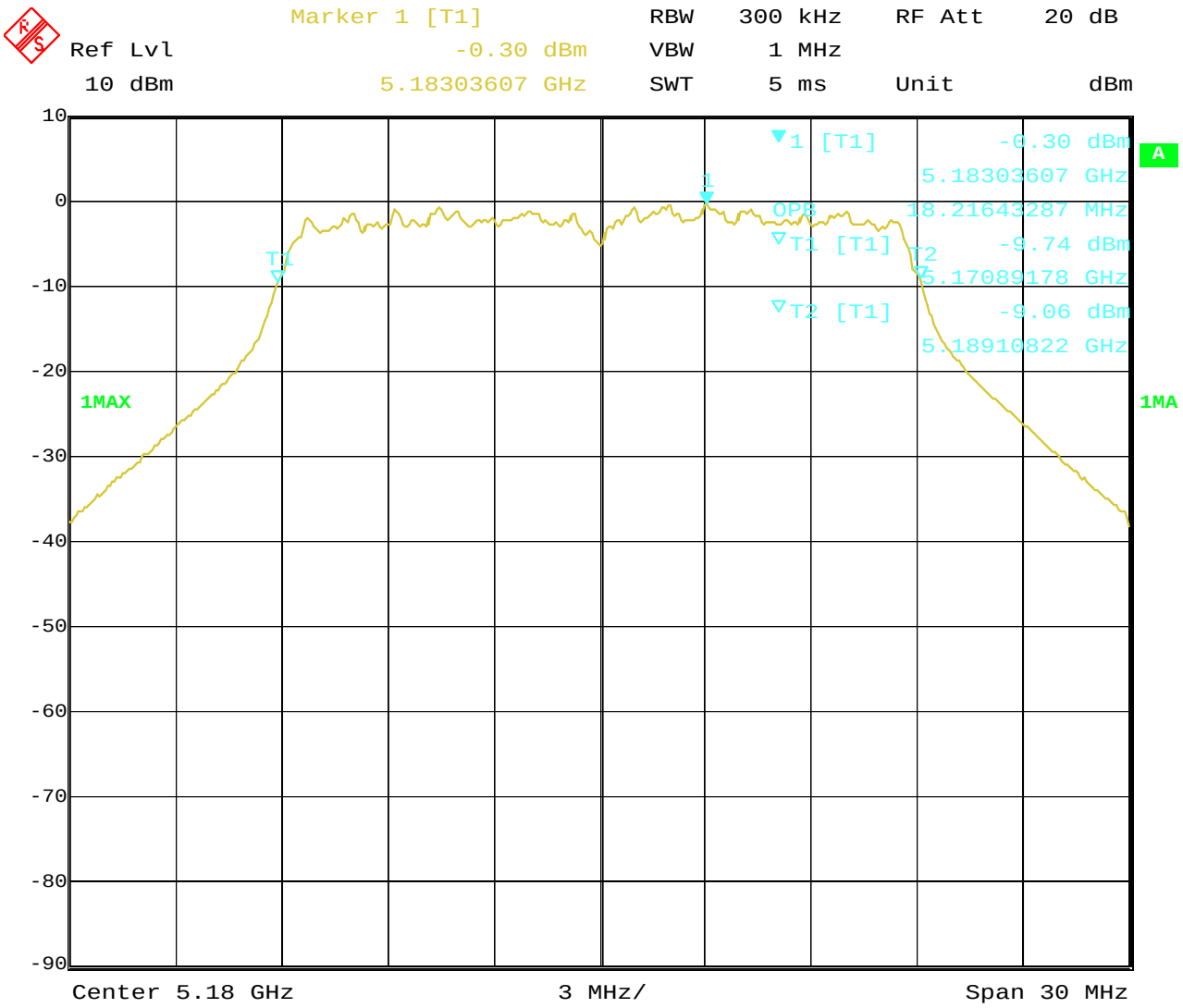
Test Configure

99% Bandwidth

Channel 36



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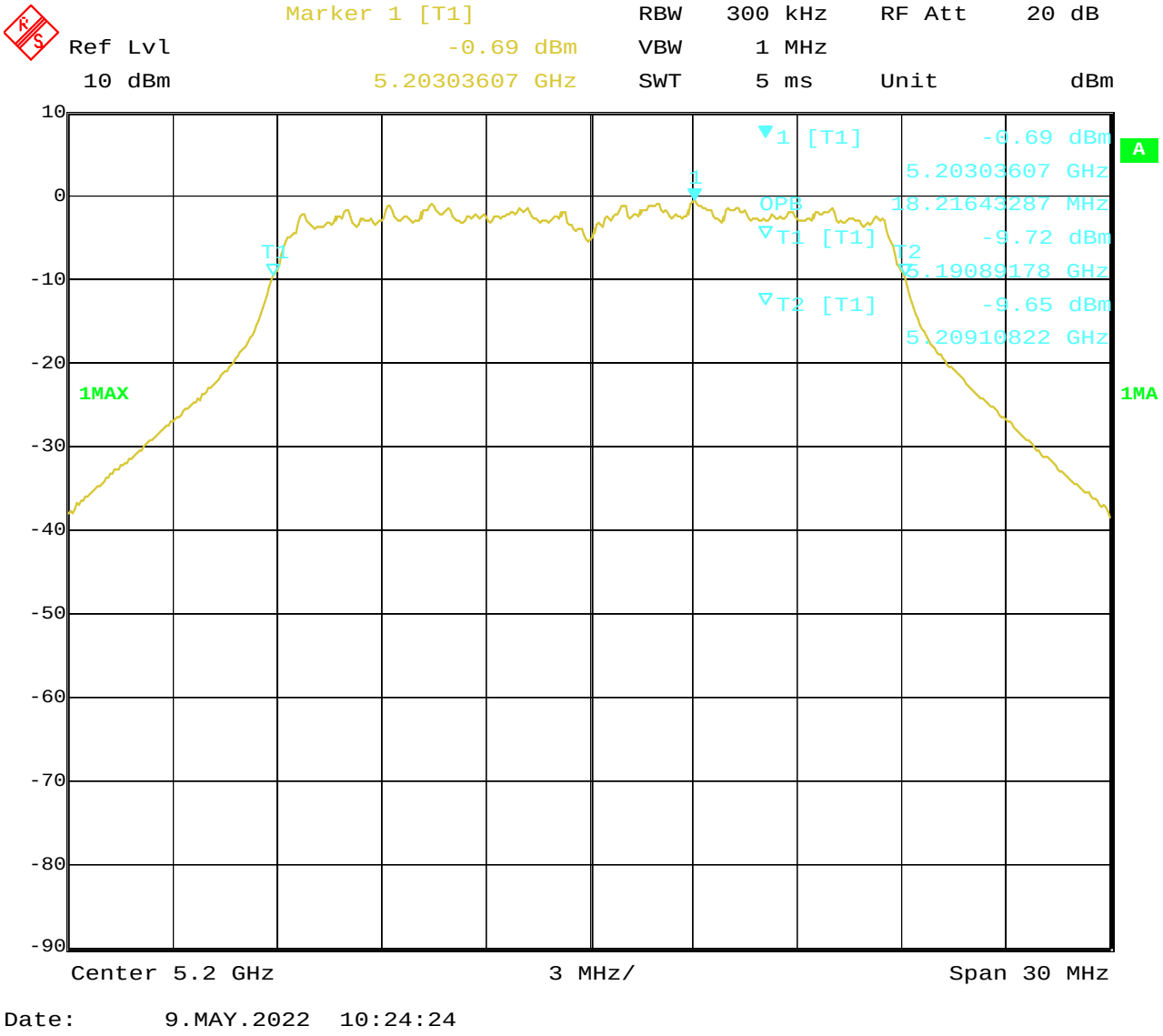
Channel 40



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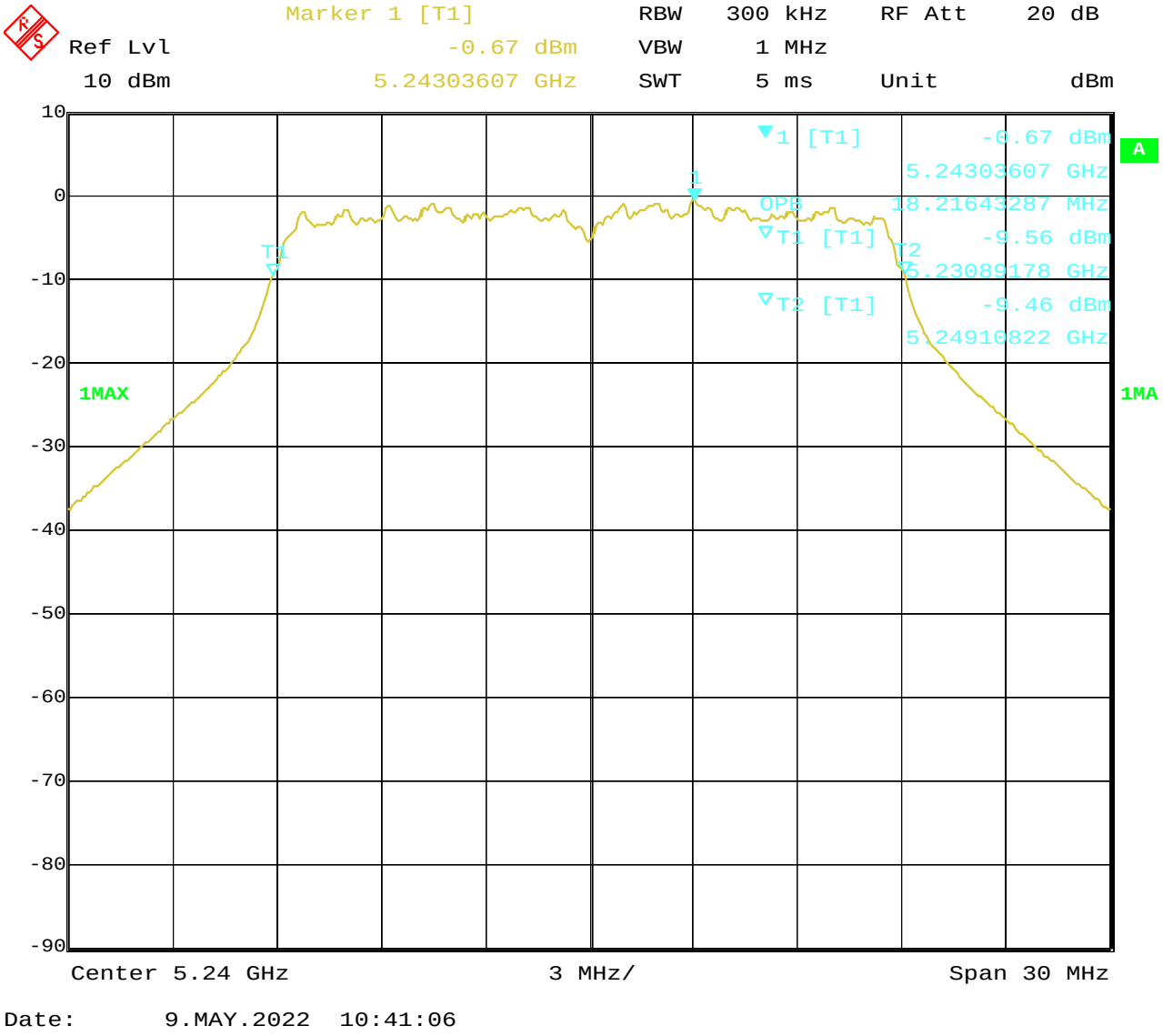

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EUT	Tablet PC	Model	K13
Mode	802.11ac VHT20	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
149	5745	6	23.81	--	Pass
153	5765	6	23.81	--	Pass
161	5825	6	23.69	--	Pass
6dB Bandwidth					
149	5745	6	17.52	0.5	Pass
153	5765	6	17.58	0.5	Pass
161	5825	6	17.56	0.5	Pass
99% Bandwidth					
149	5745	6	18.22	--	Pass
153	5765	6	18.22	--	Pass
161	5825	6	18.16	--	Pass

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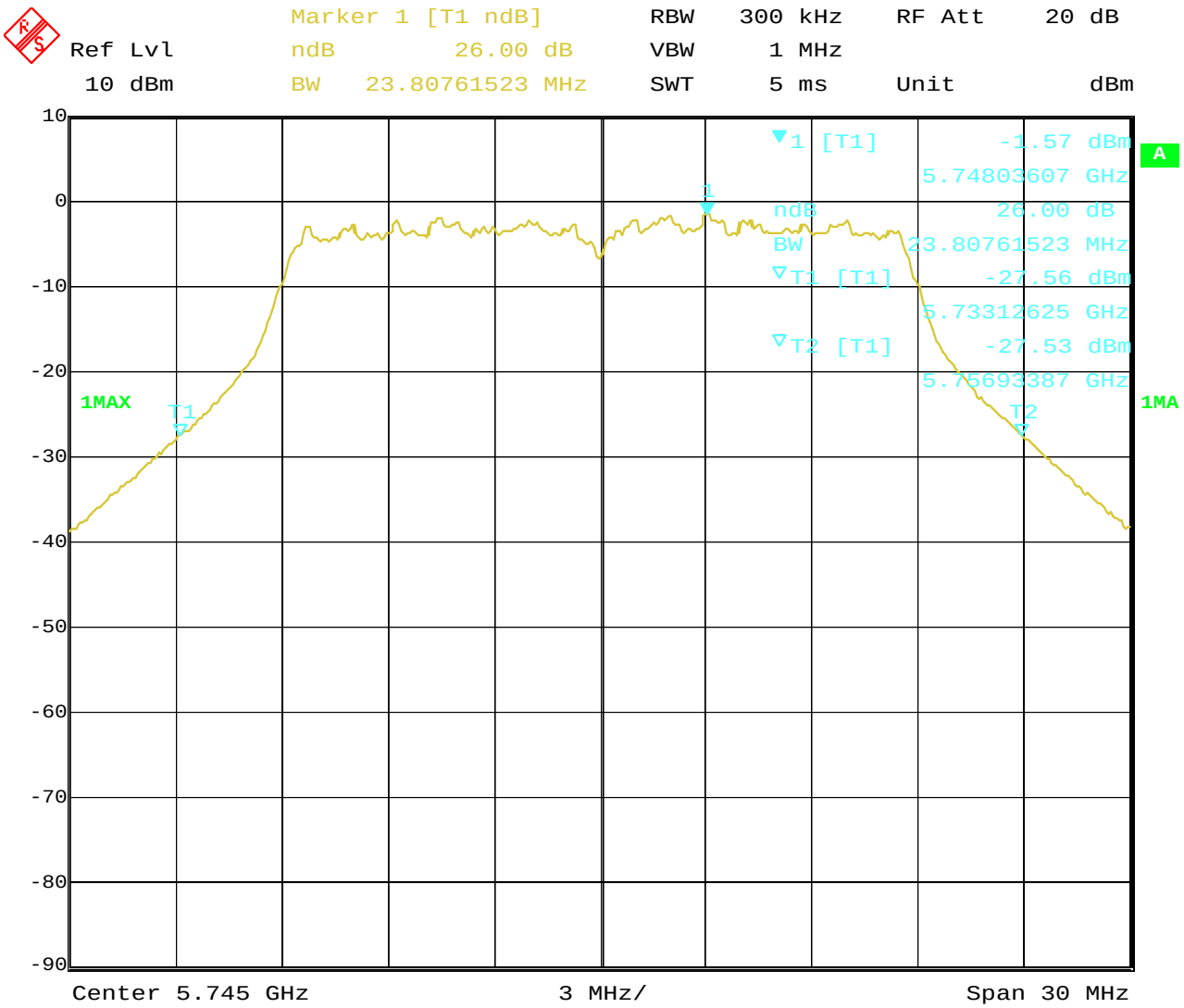
Test Configure

26dB Bandwidth

Channel 149



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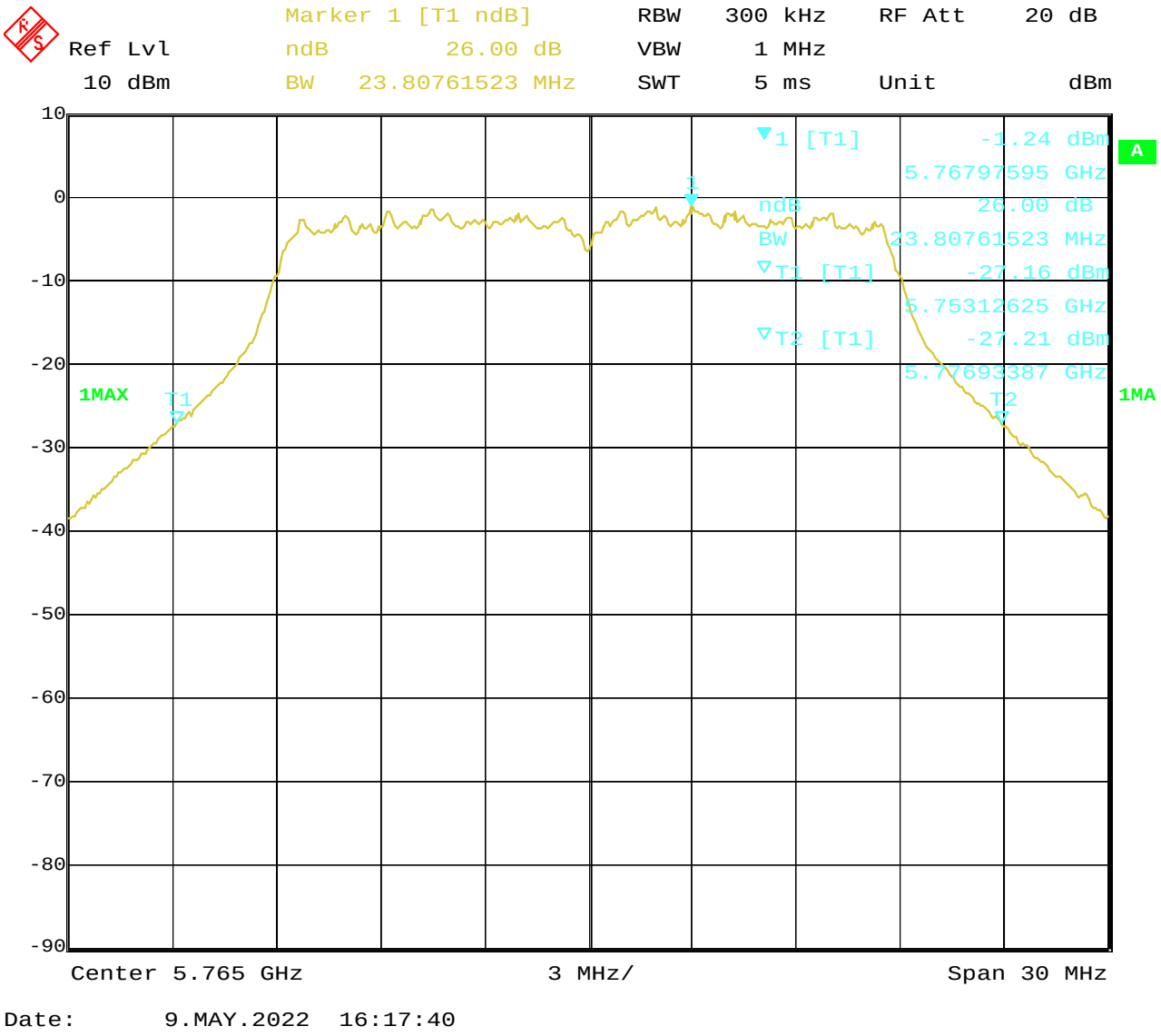
Channel 153



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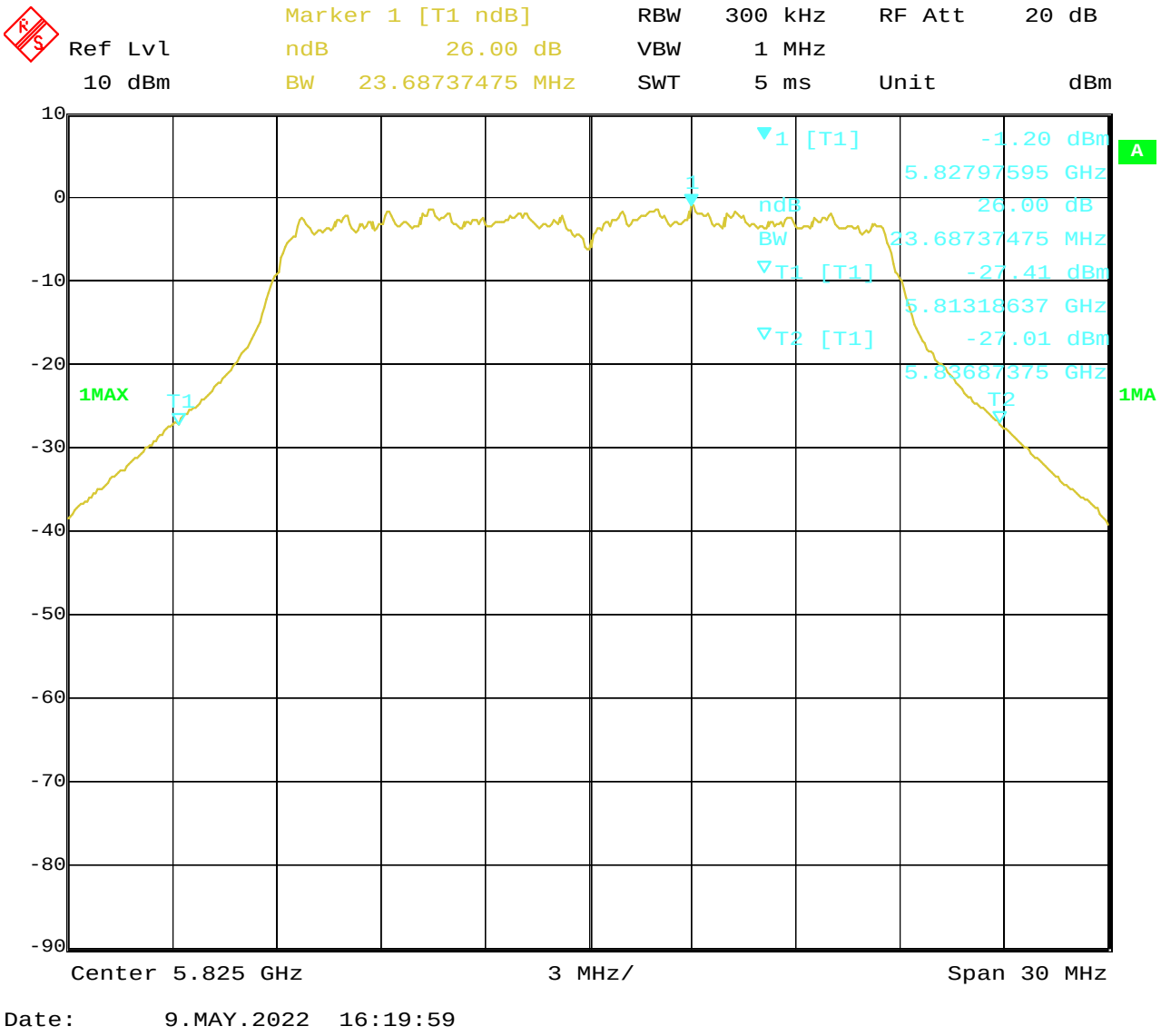
Channel 161



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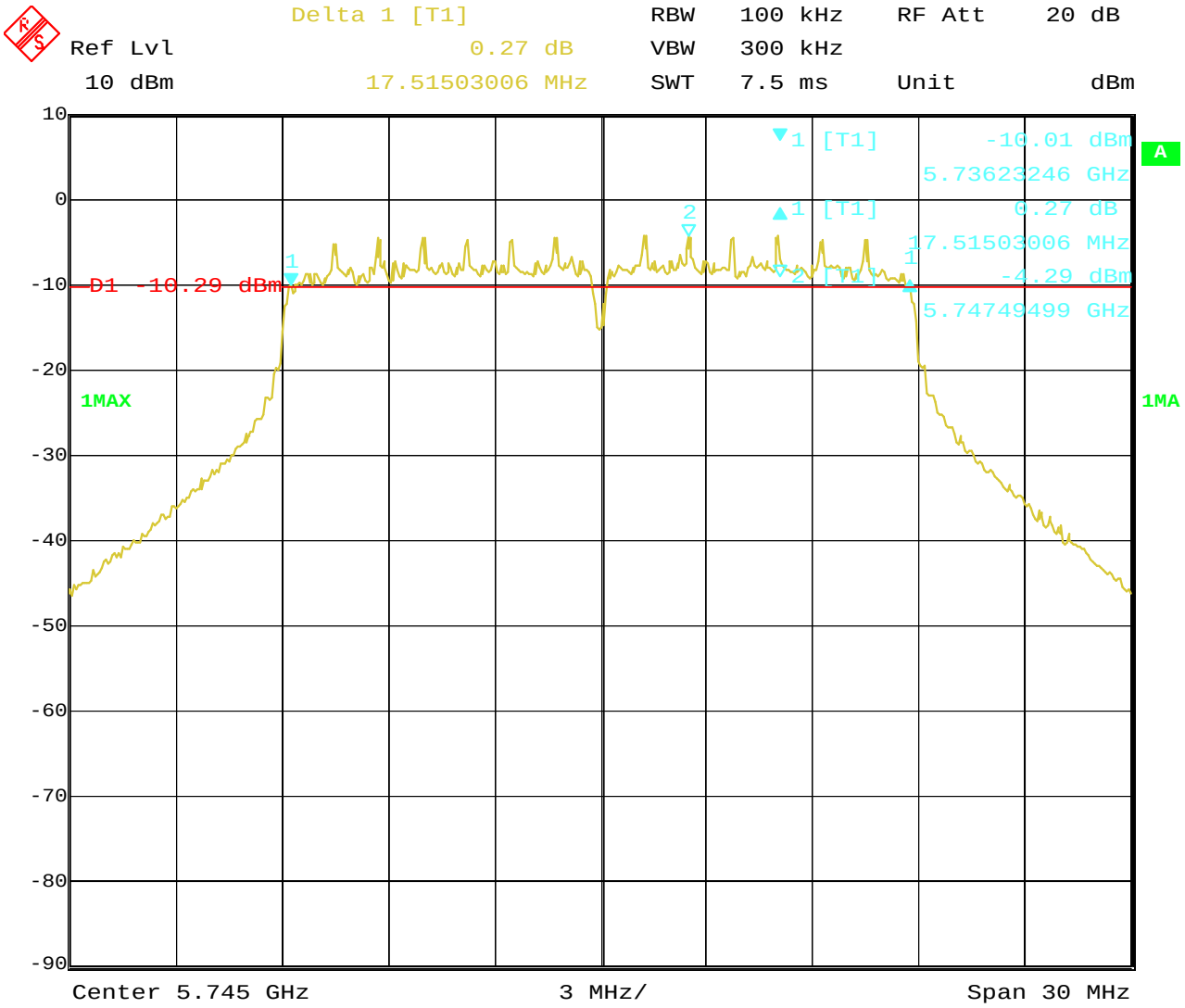
Test Configure

6dB Bandwidth

Channel 149



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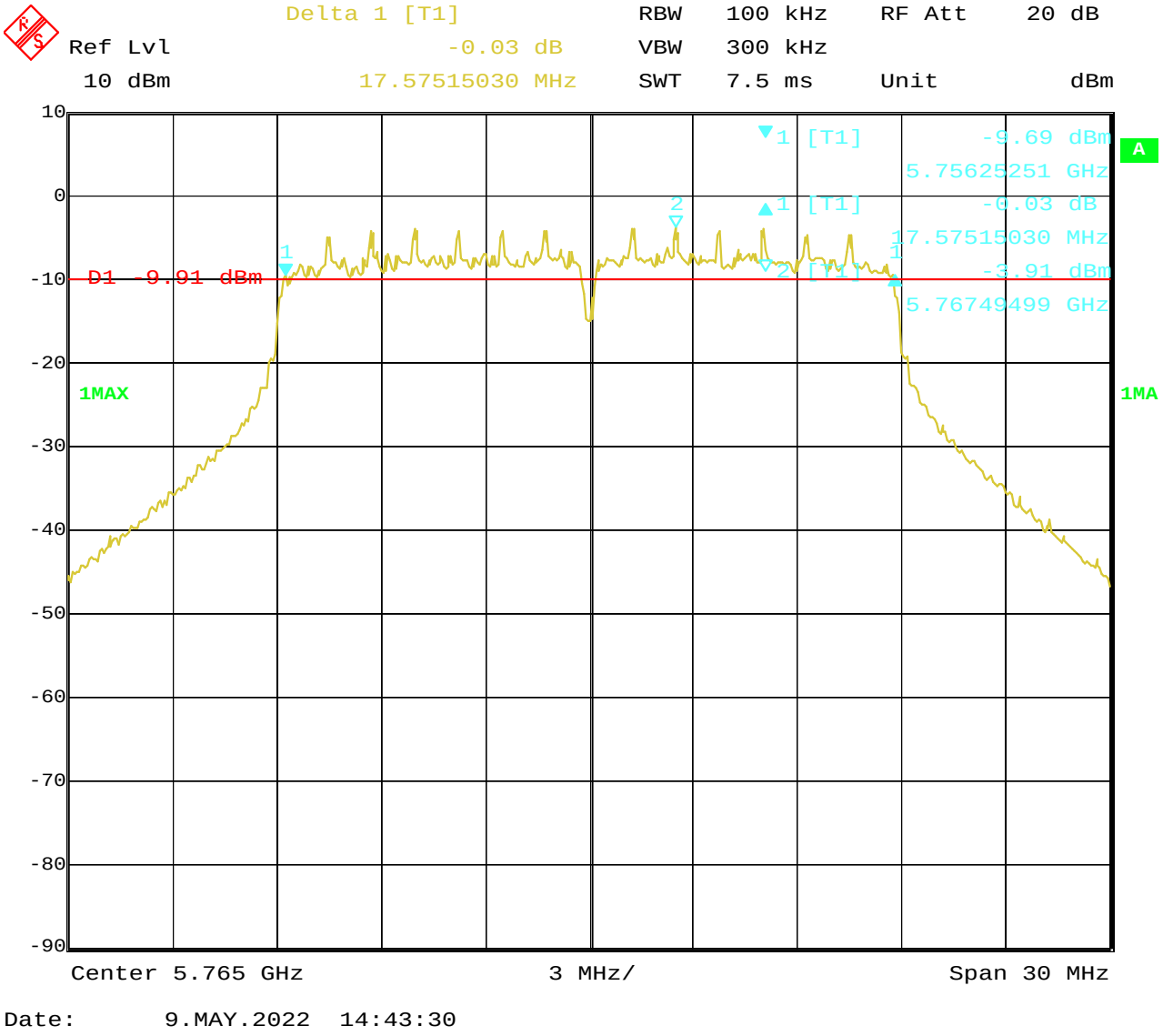

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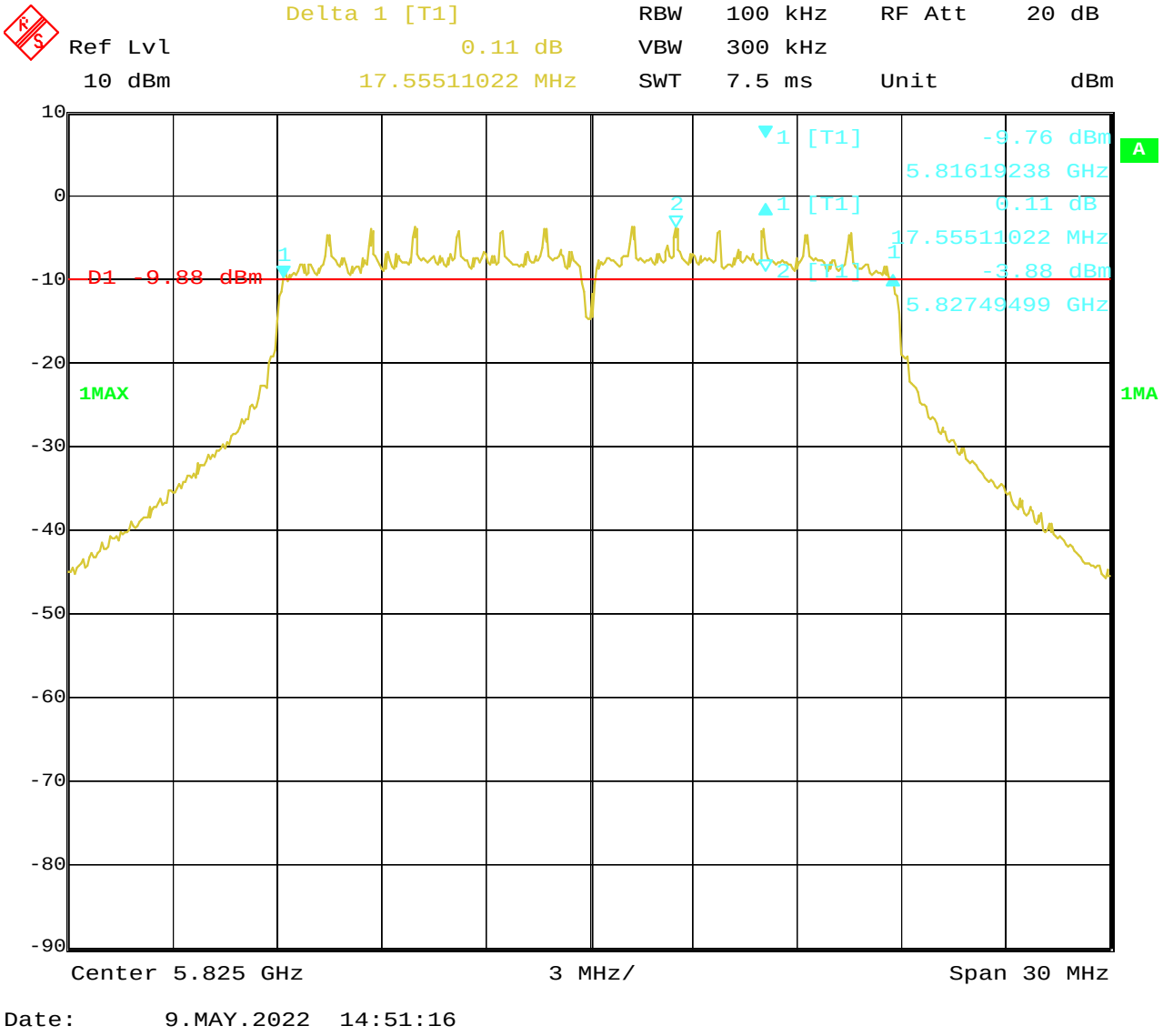

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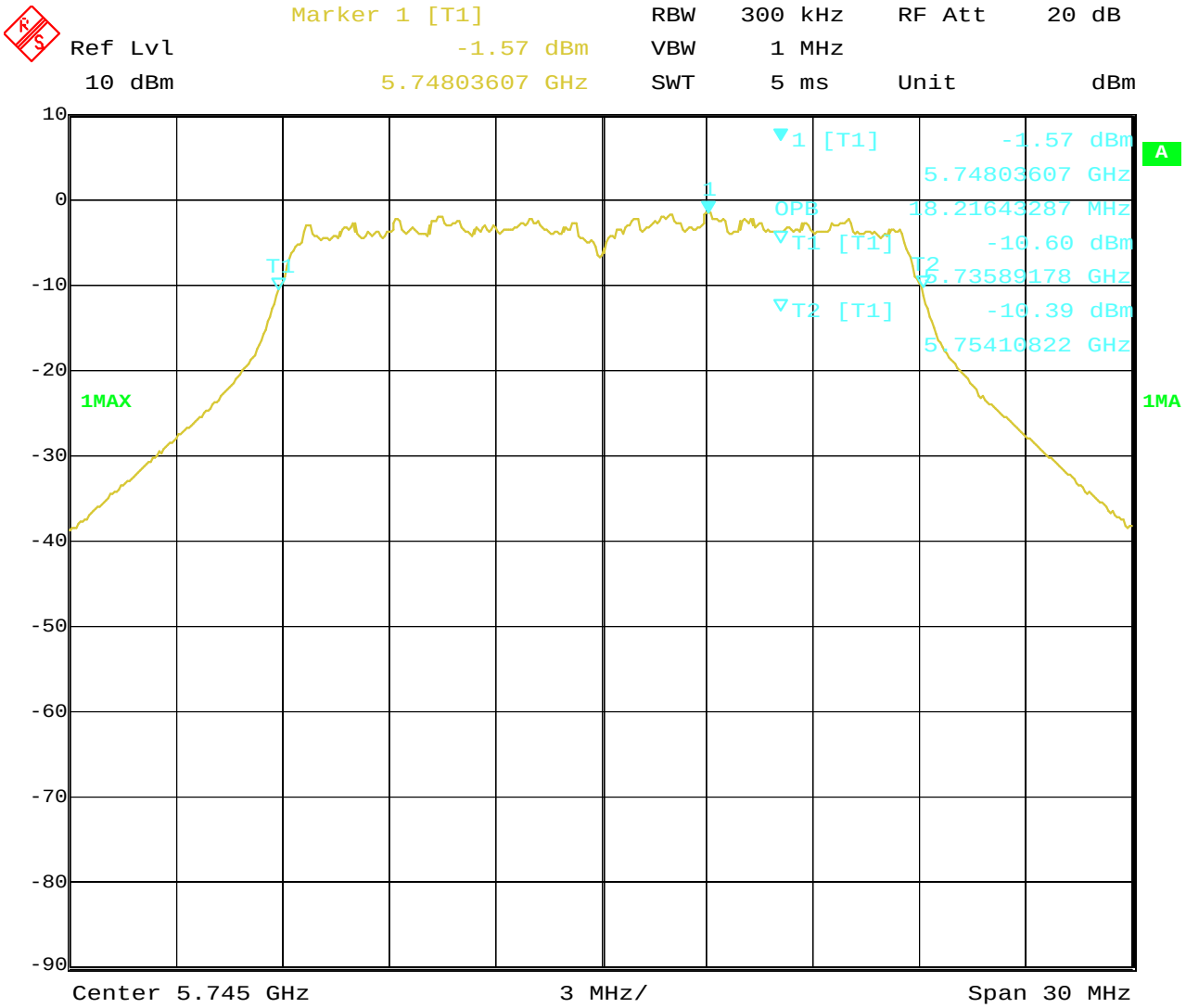
Test Configure

99% Bandwidth

Channel 149



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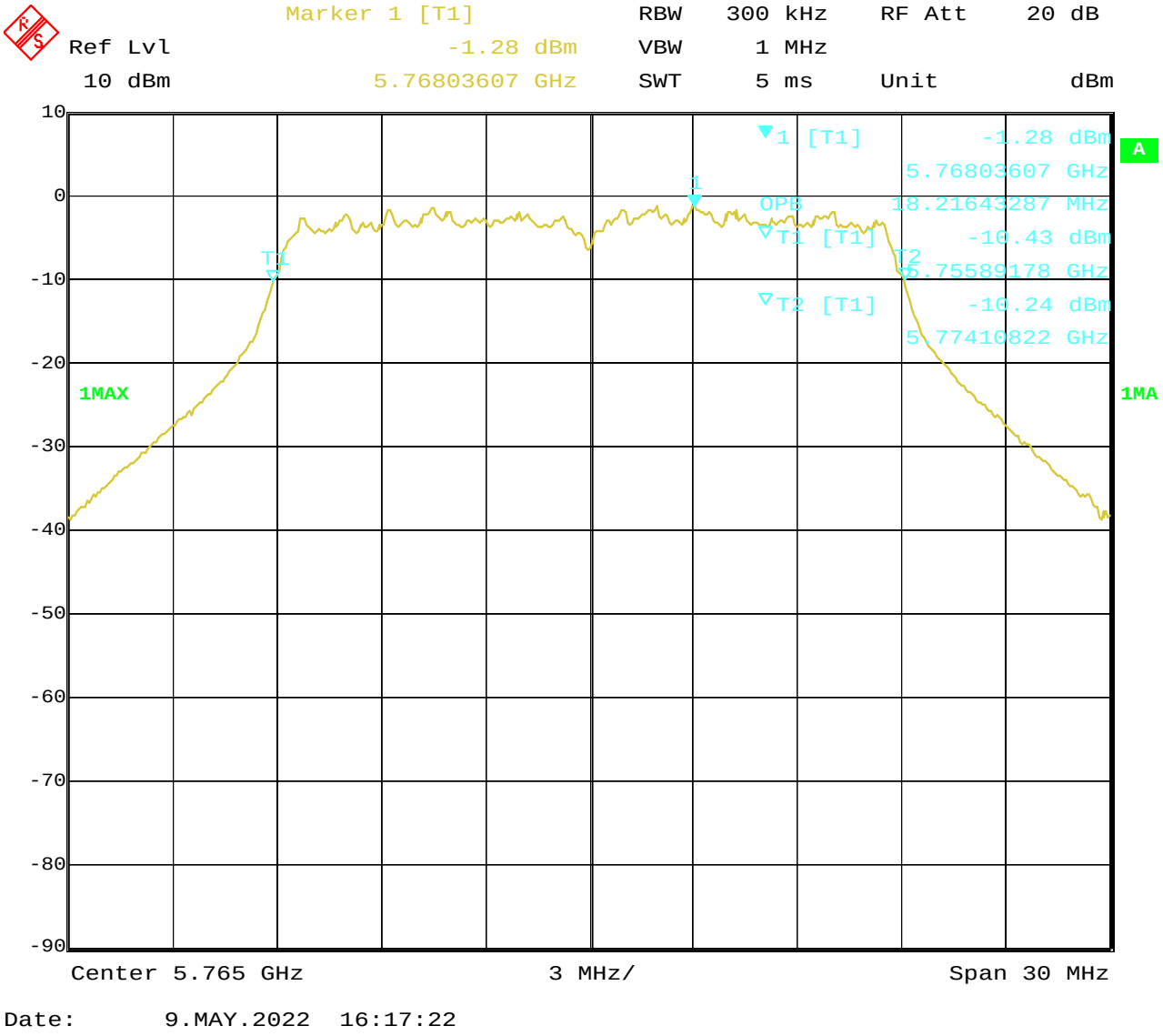

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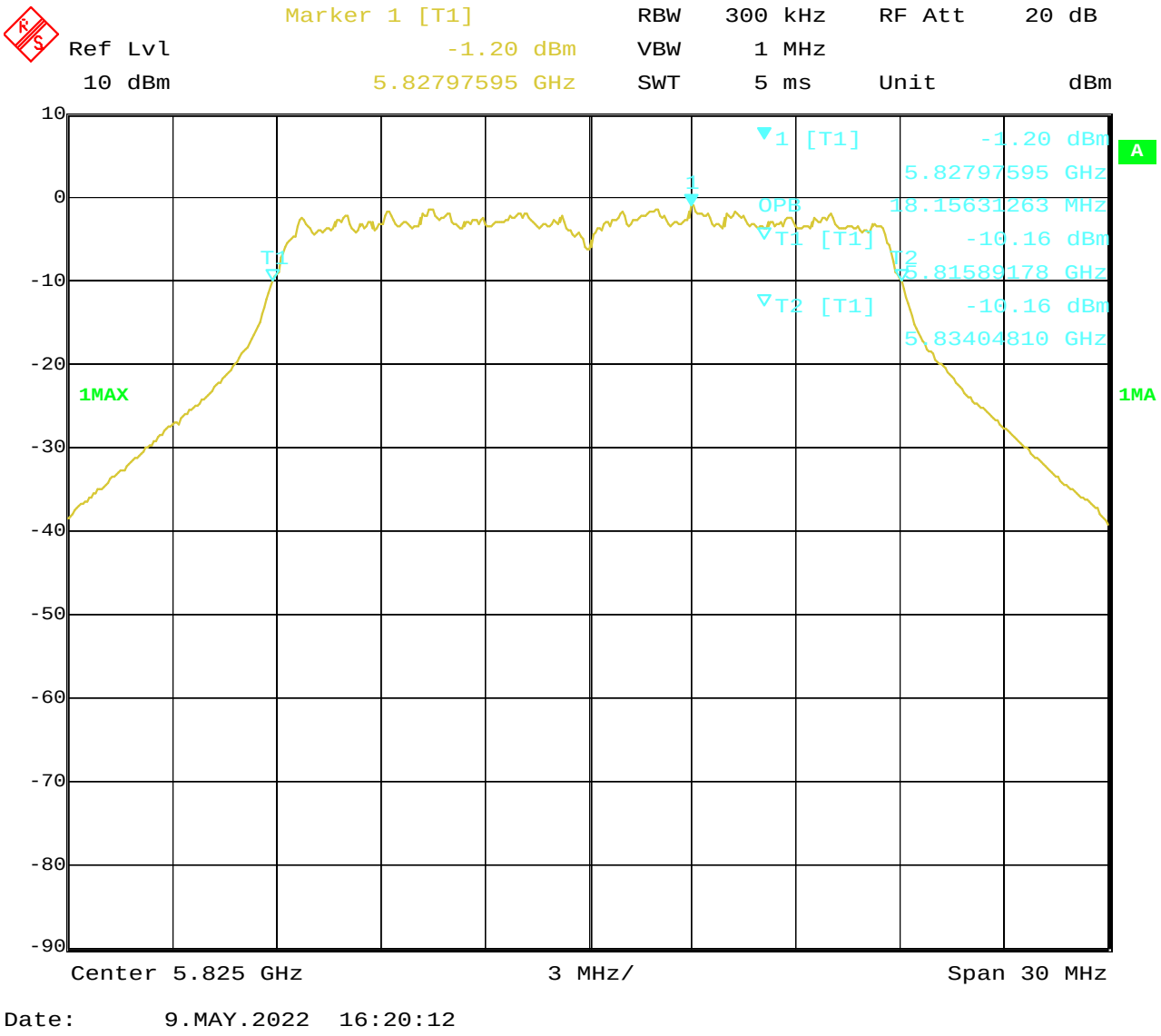

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EUT	Tablet PC	Model	K13
Mode	802.11ac VHT40	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
38	5190	mcs0	45.57	--	Pass
46	5230	mcs0	45.57	--	Pass
99% Bandwidth					
38	5190	mcs0	37.27	--	Pass
46	5230	mcs0	37.15	--	Pass

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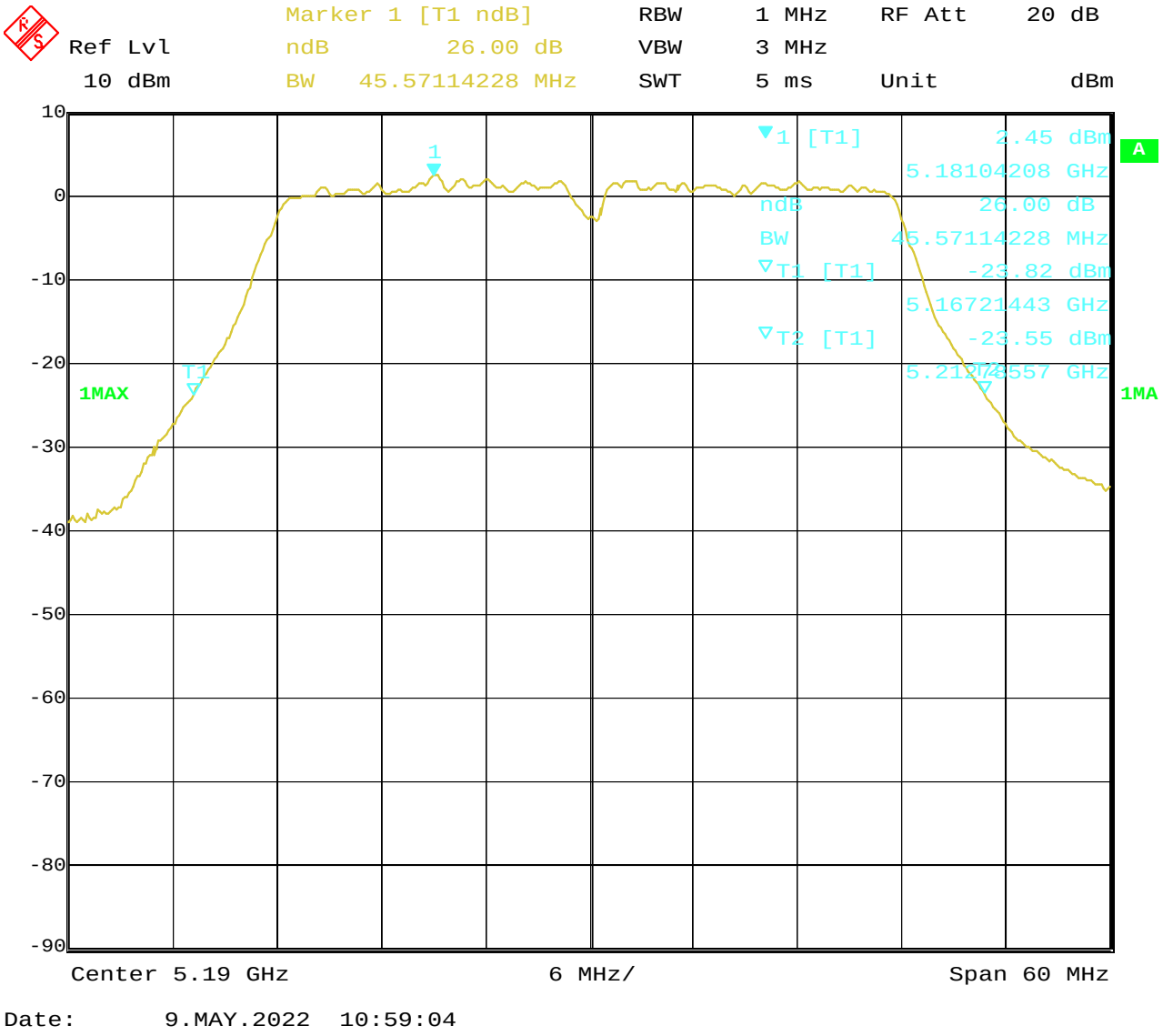
Test Configure

26dB Bandwidth

Channel 38



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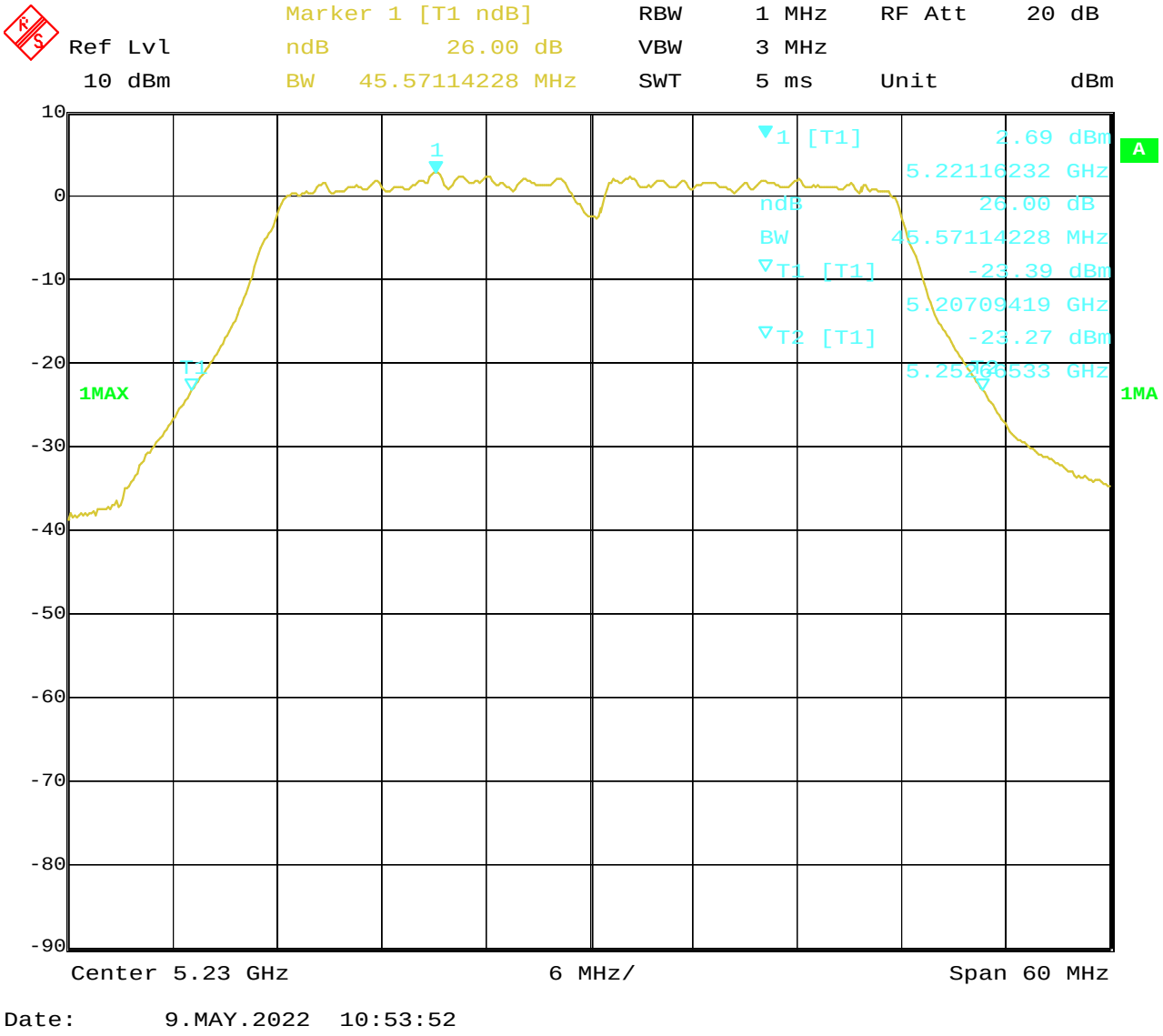
Channel 46



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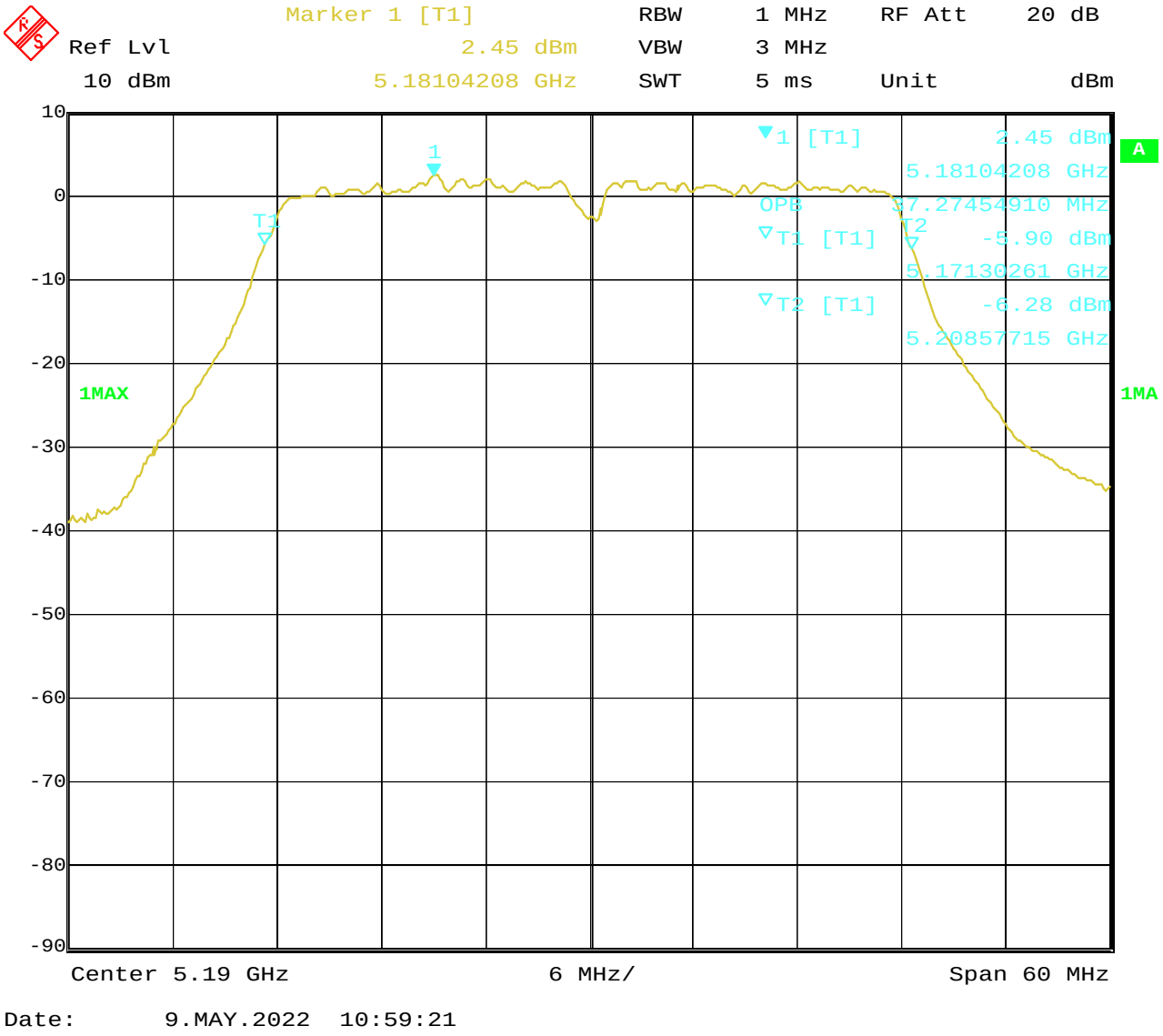
Test Configure

99% Bandwidth

Channel 38



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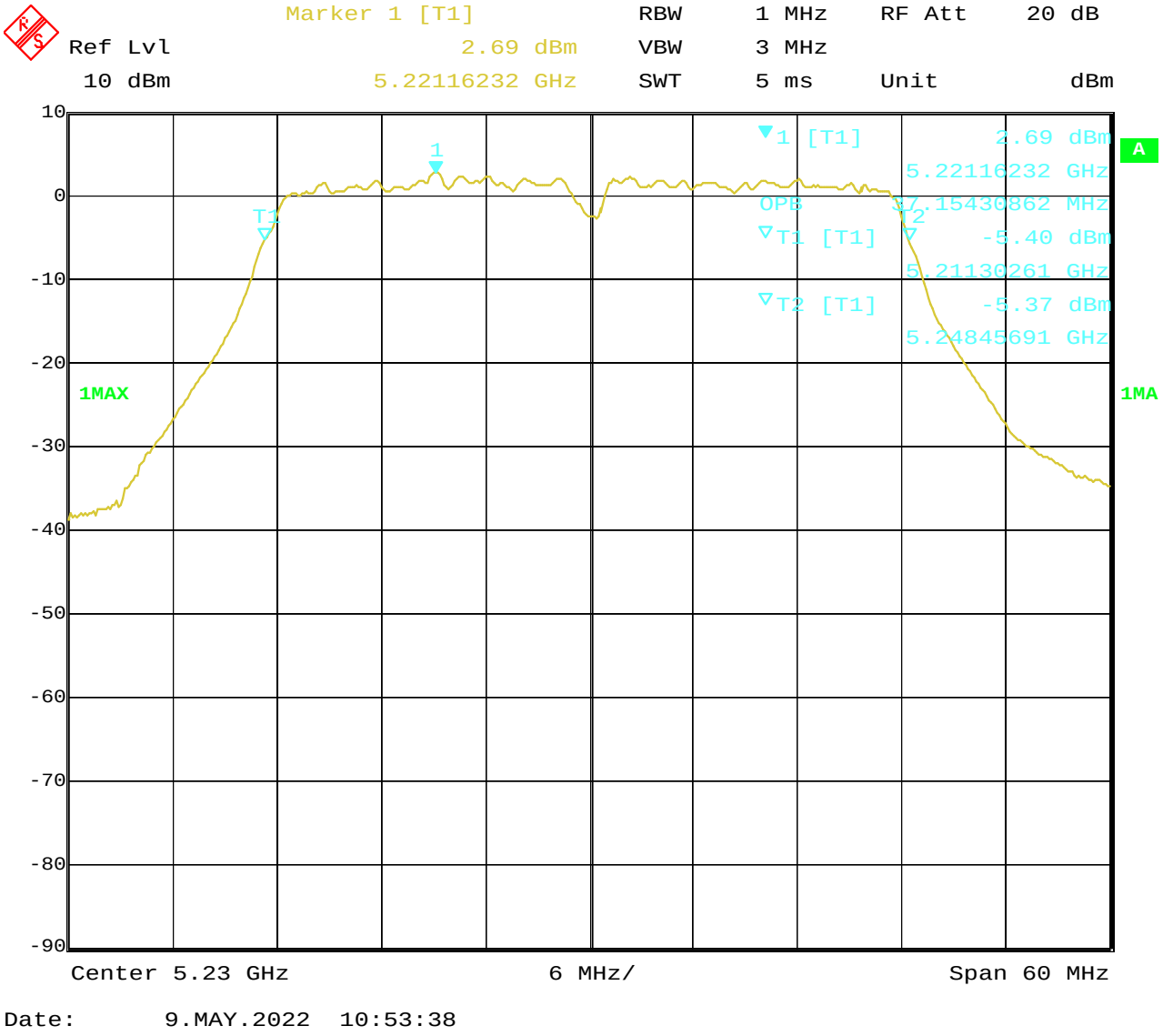
Channel 46



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EUT	Tablet PC	Model	K13
Mode	802.11ac VHT40	Input Voltage	DC3.7V
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	45.45	--	Pass
159	5795	mcs0	45.45	--	Pass
6dB Bandwidth					
151	5755	mcs0	36.23	0.5	Pass
159	5795	mcs0	36.14	0.5	Pass
99% Bandwidth					
151	5755	mcs0	37.27	--	Pass
159	5795	mcs0	37.15	--	Pass

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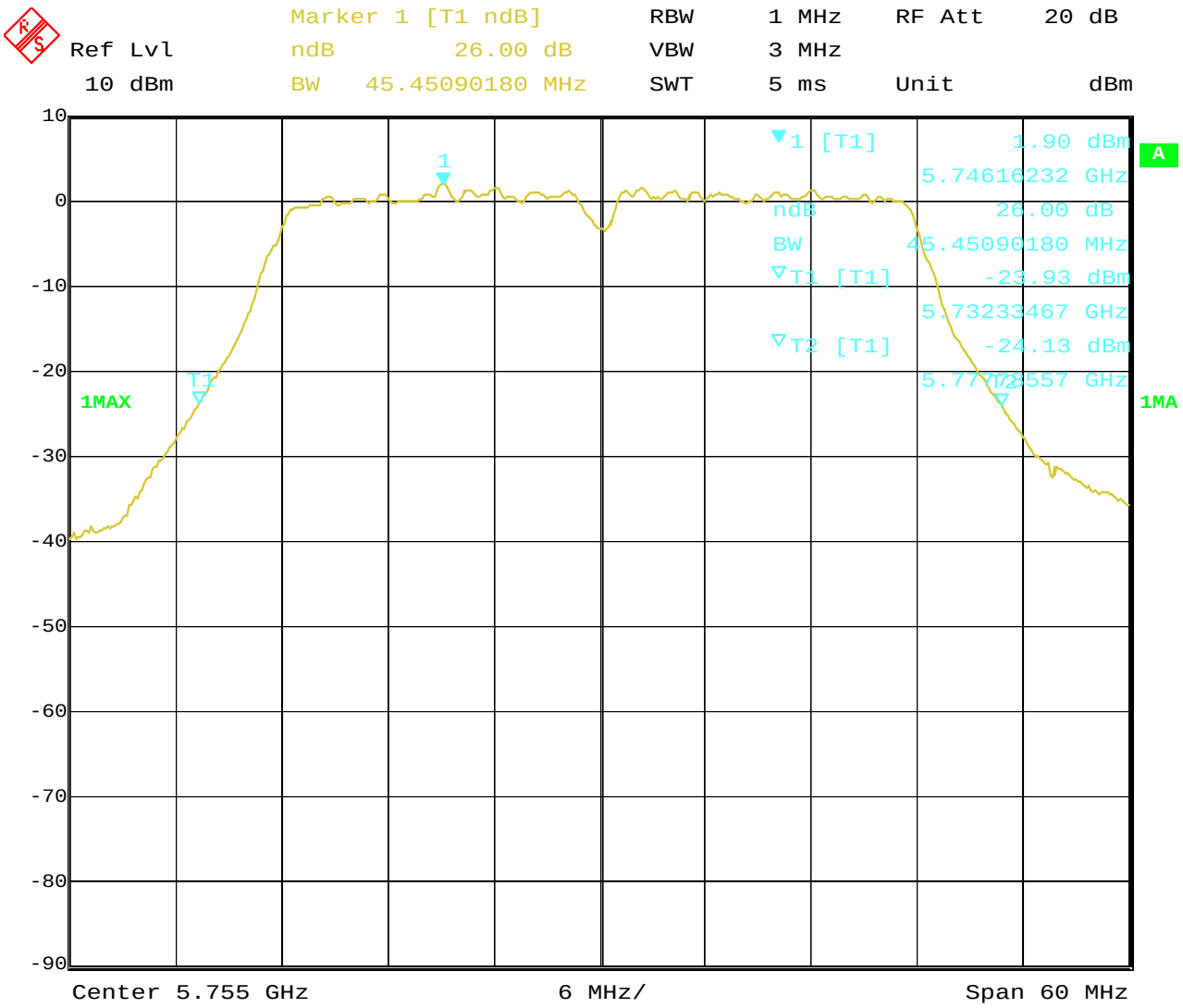
Test Configure

26dB Bandwidth

Channel 151



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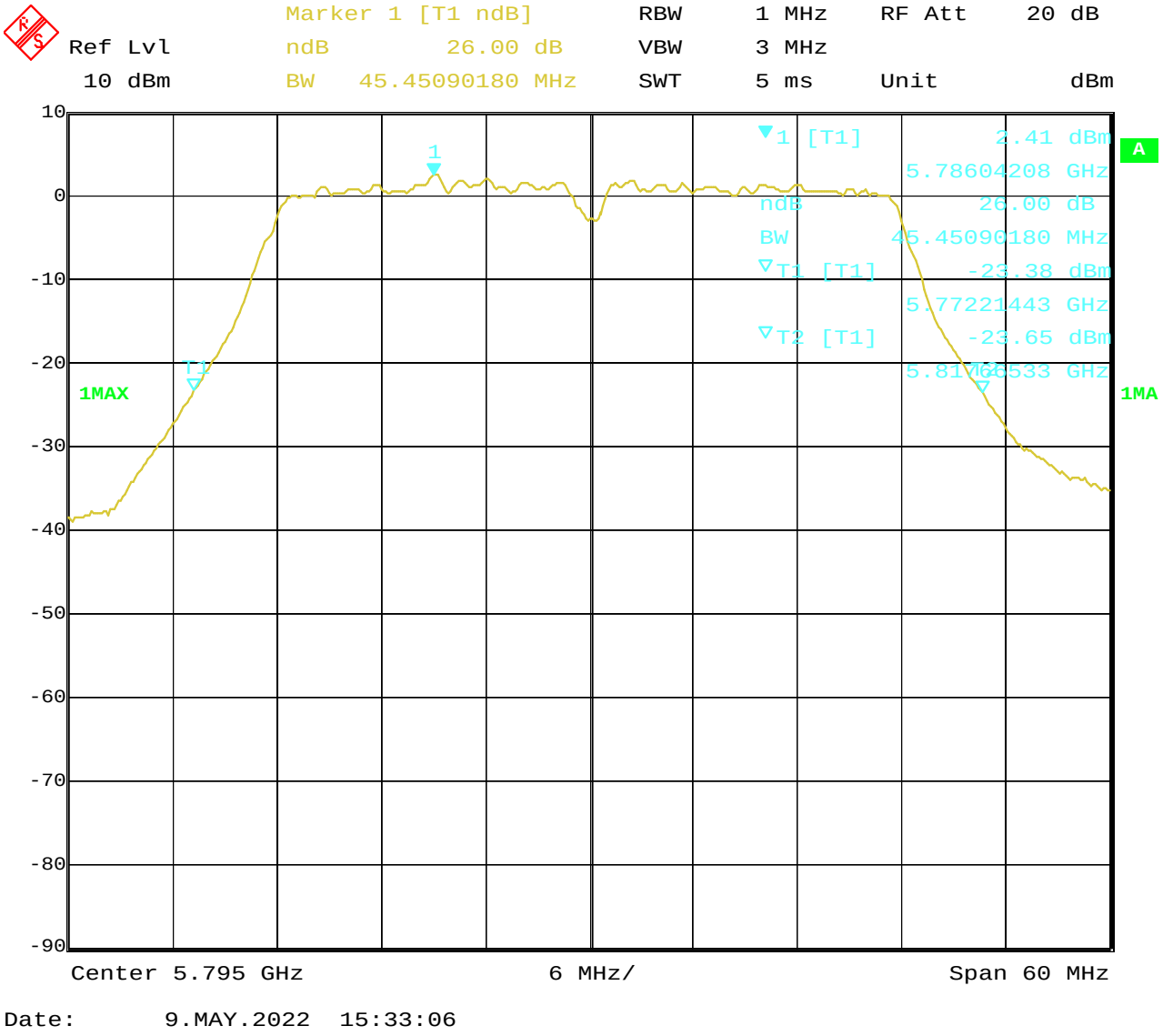
Channel 159



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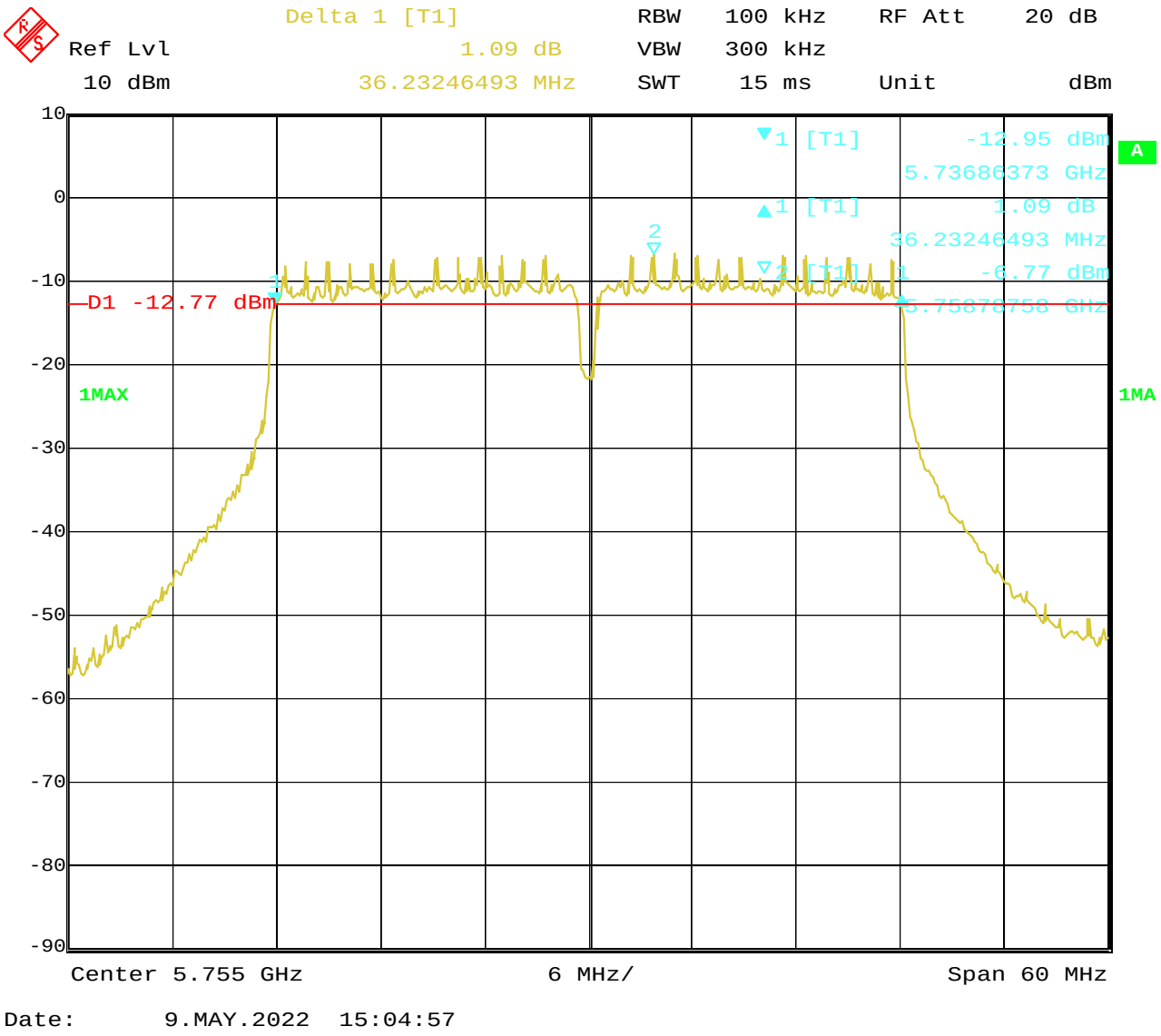
Test Configure

6dB Bandwidth

Channel 151



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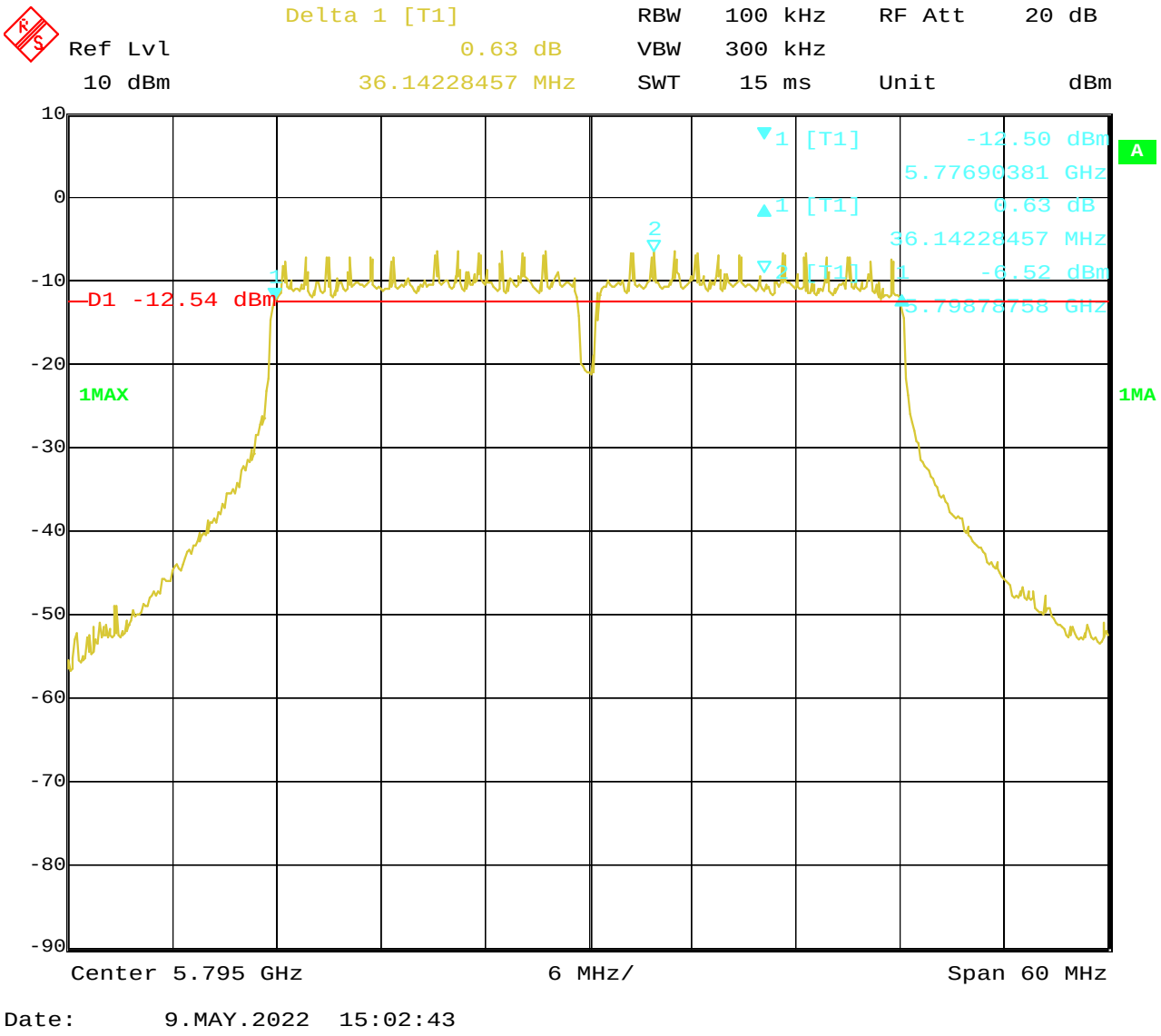
Channel 159



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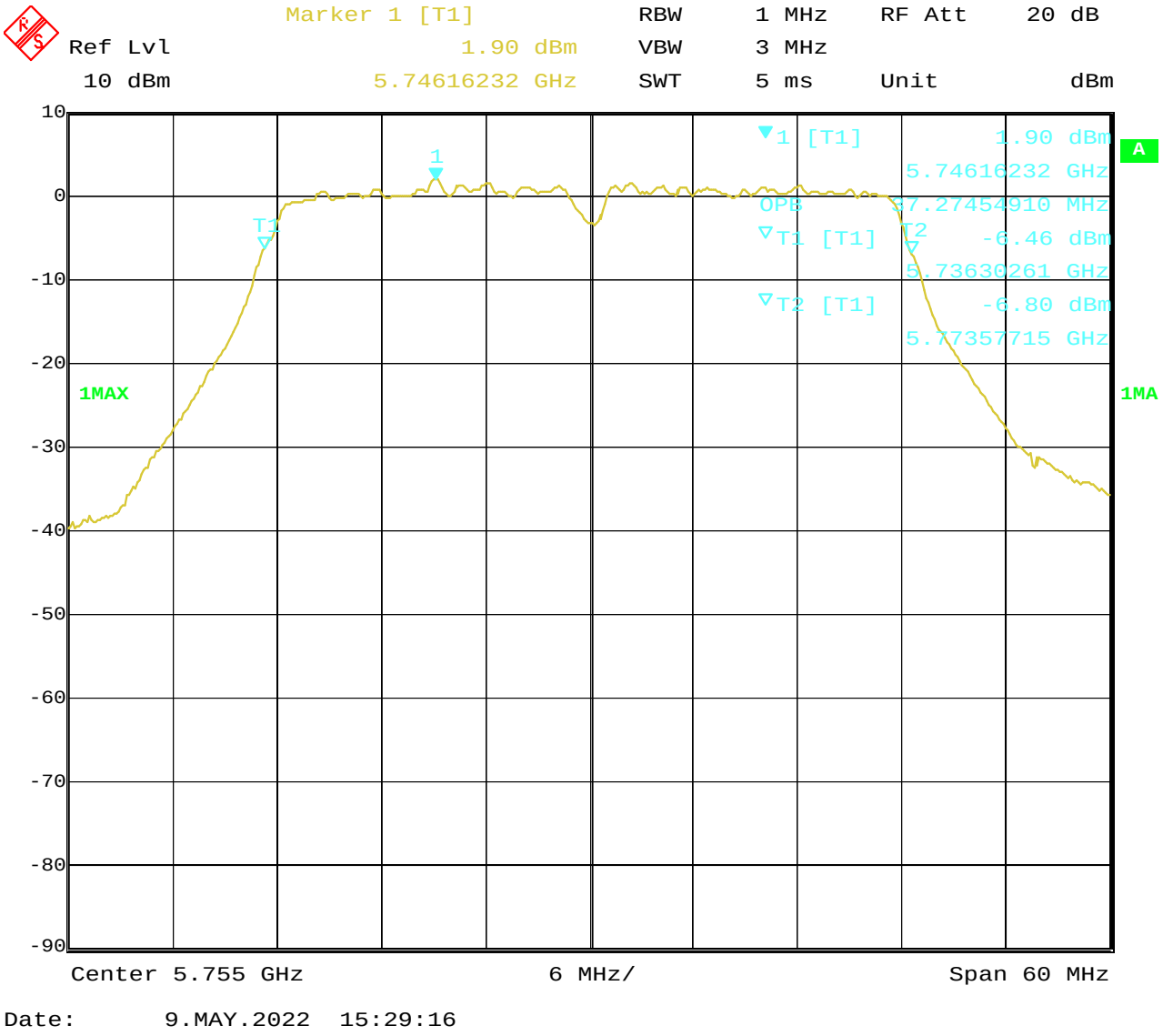
Test Configure

99% Bandwidth

Channel 151



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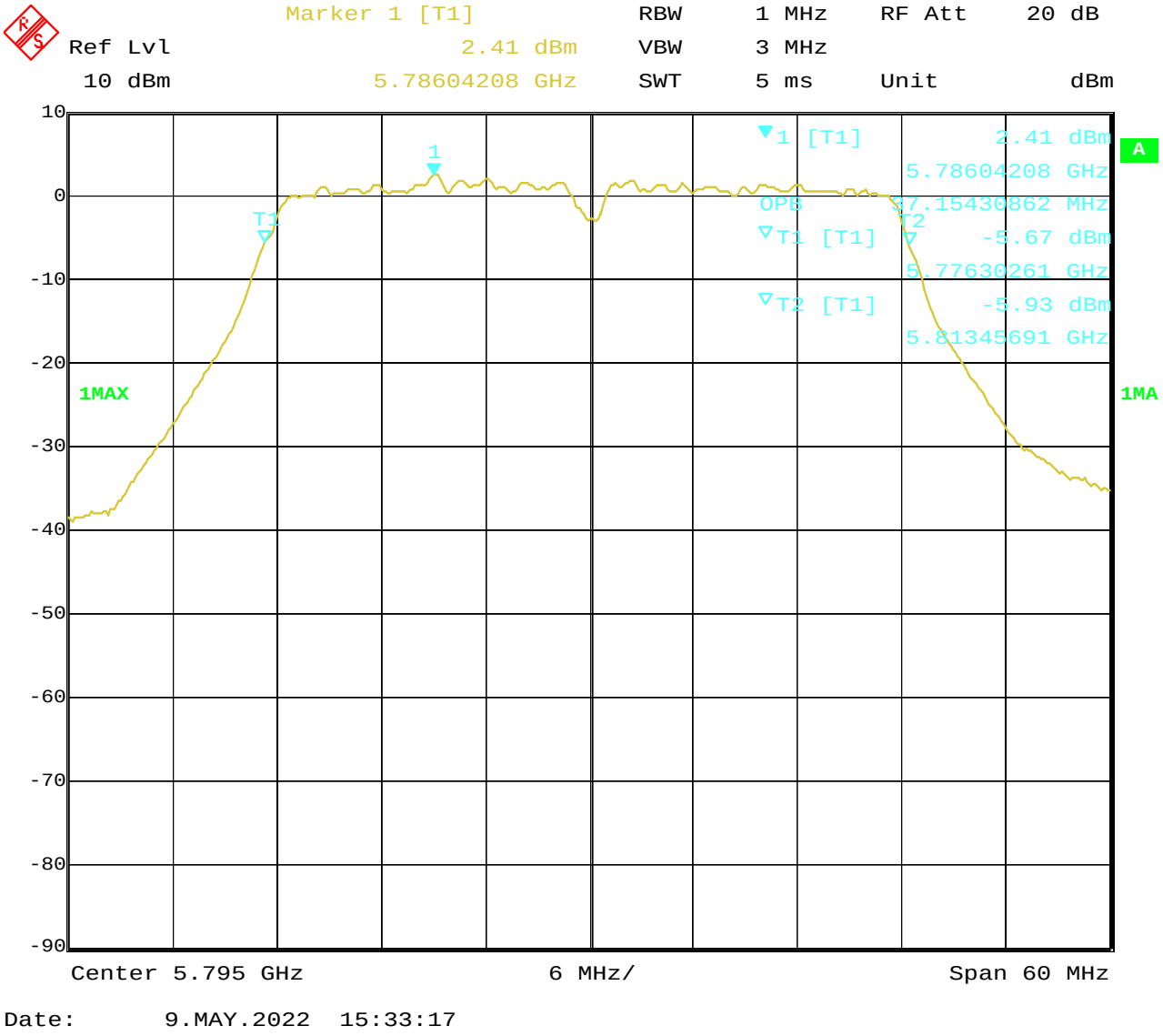
Channel 159



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EUT	Tablet PC	Model	K13
Mode	802.11ac VHT80	Input Voltage	DC3.7V
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	75.99	--	Pass

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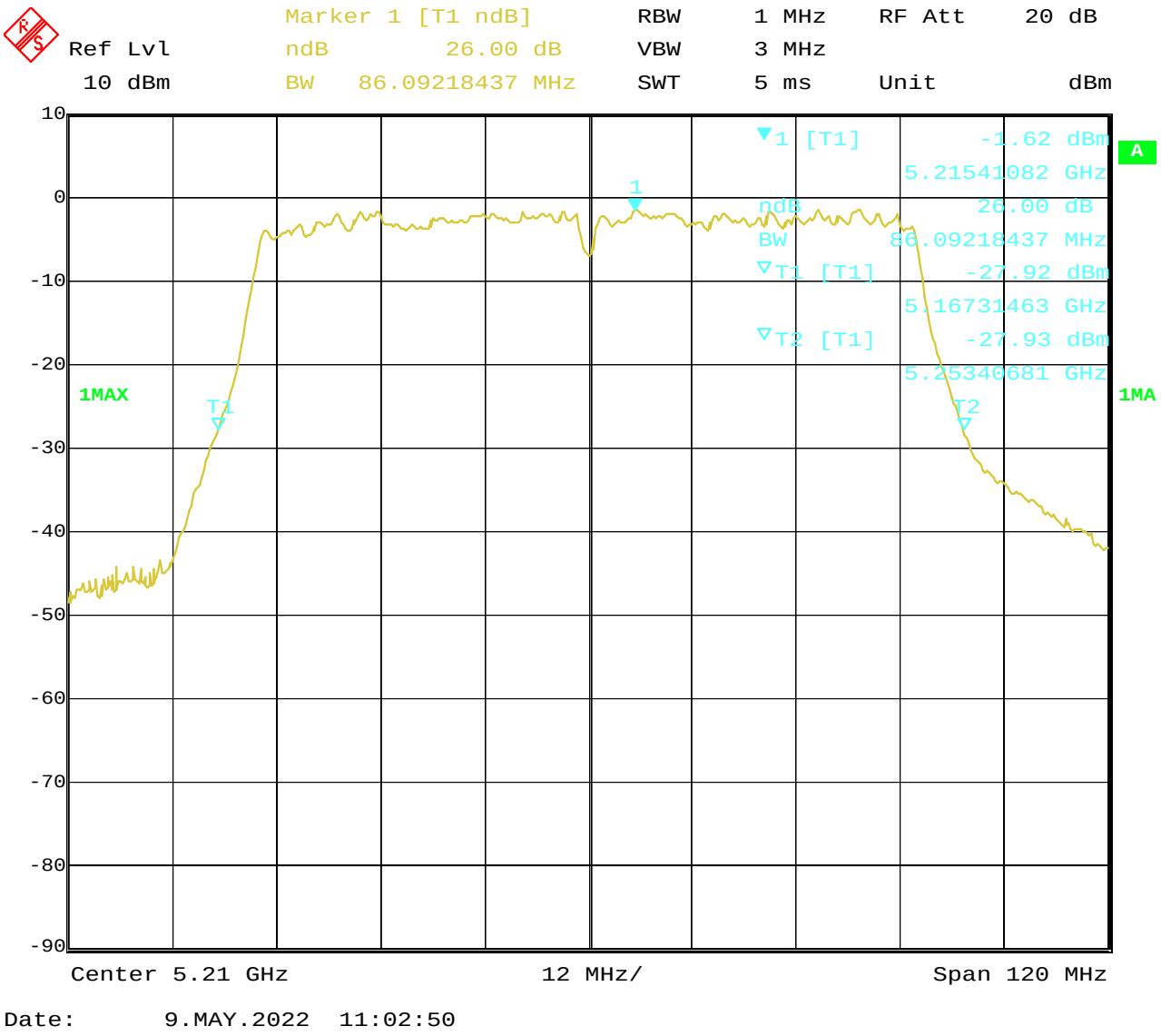
Test Configure

26dB Bandwidth

Channel 42



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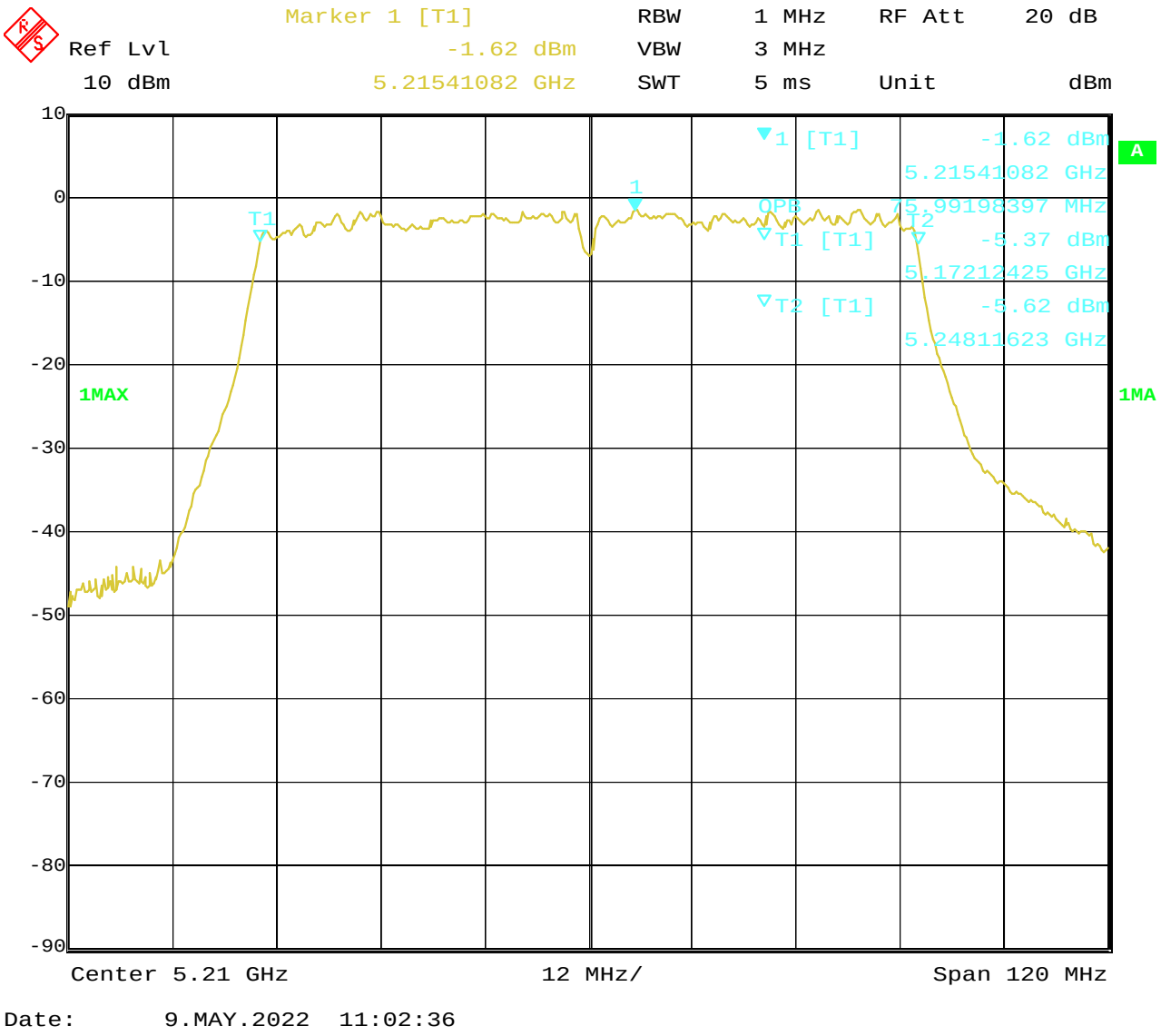
Test Configure

99% Bandwidth

Channel 42



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EUT	Tablet PC	Model	K13
Mode	802.11ac VHT80	Input Voltage	DC3.7V
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	86.09	--	Pass
6dB Bandwidth					
155	5775	mcs0	75.71	0.5	Pass
99% Bandwidth					
155	5775	mcs0	75.99	--	Pass

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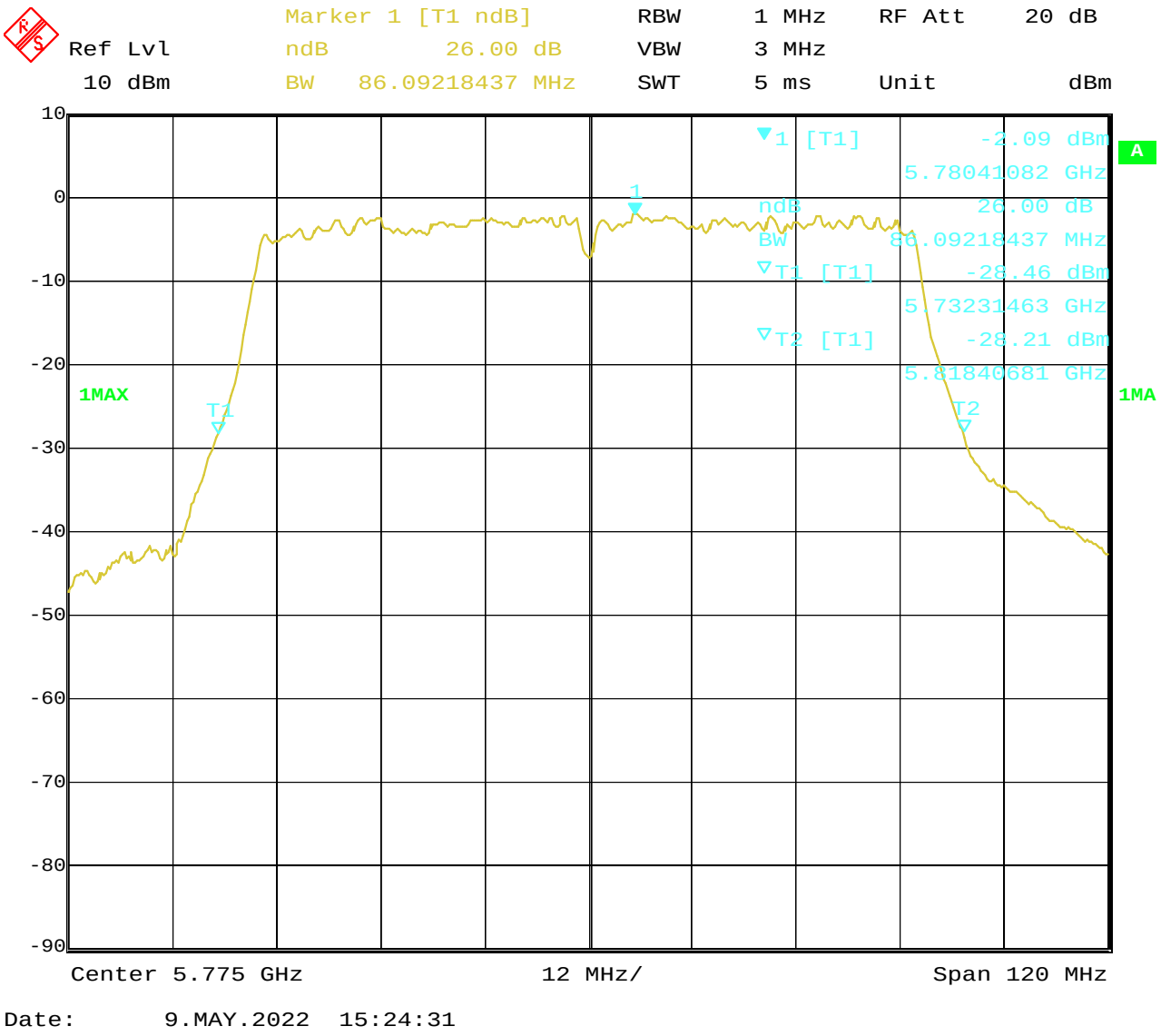
Test Configure

26dB Bandwidth

Channel 155



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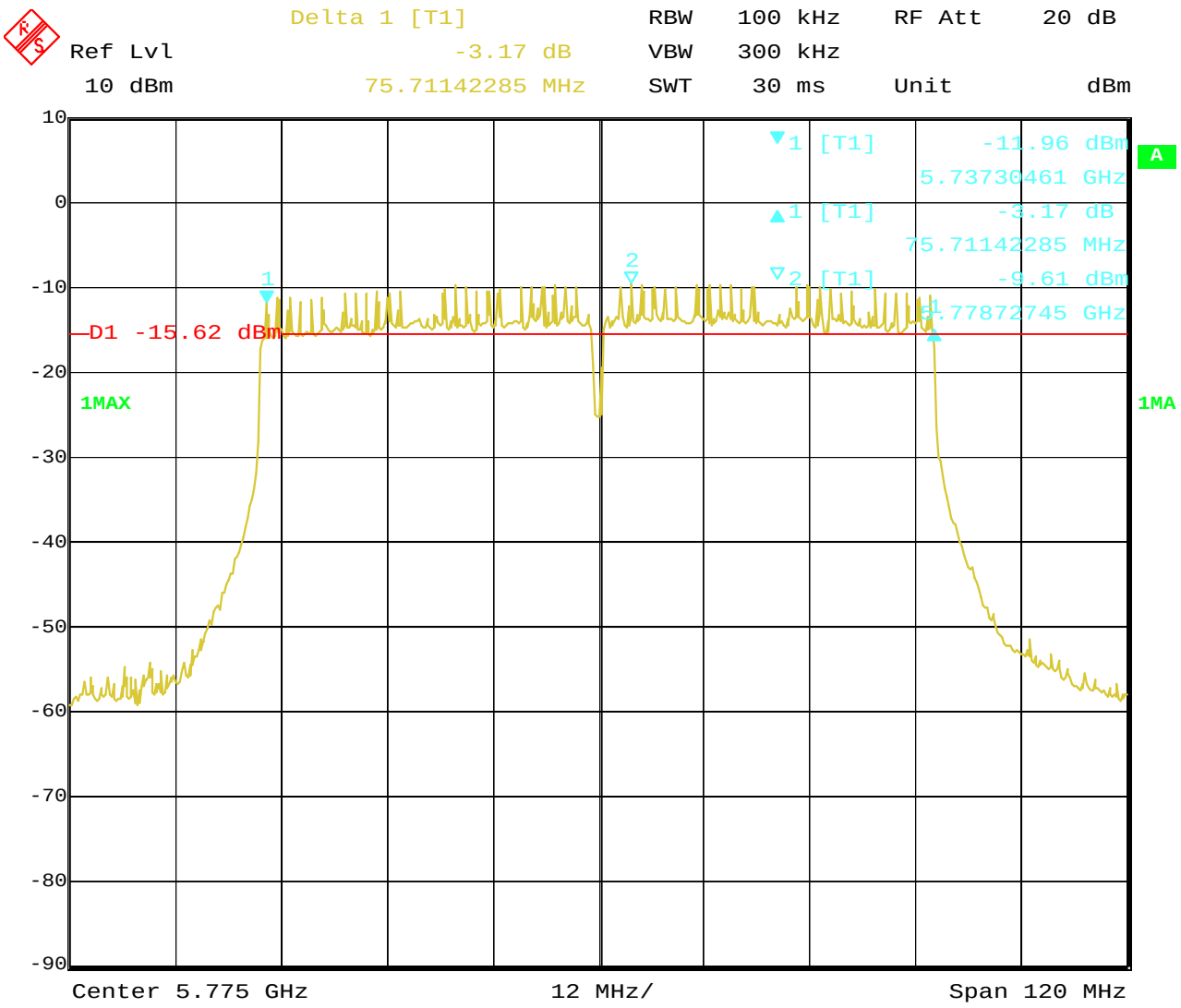
6dB Bandwidth

Channel 155



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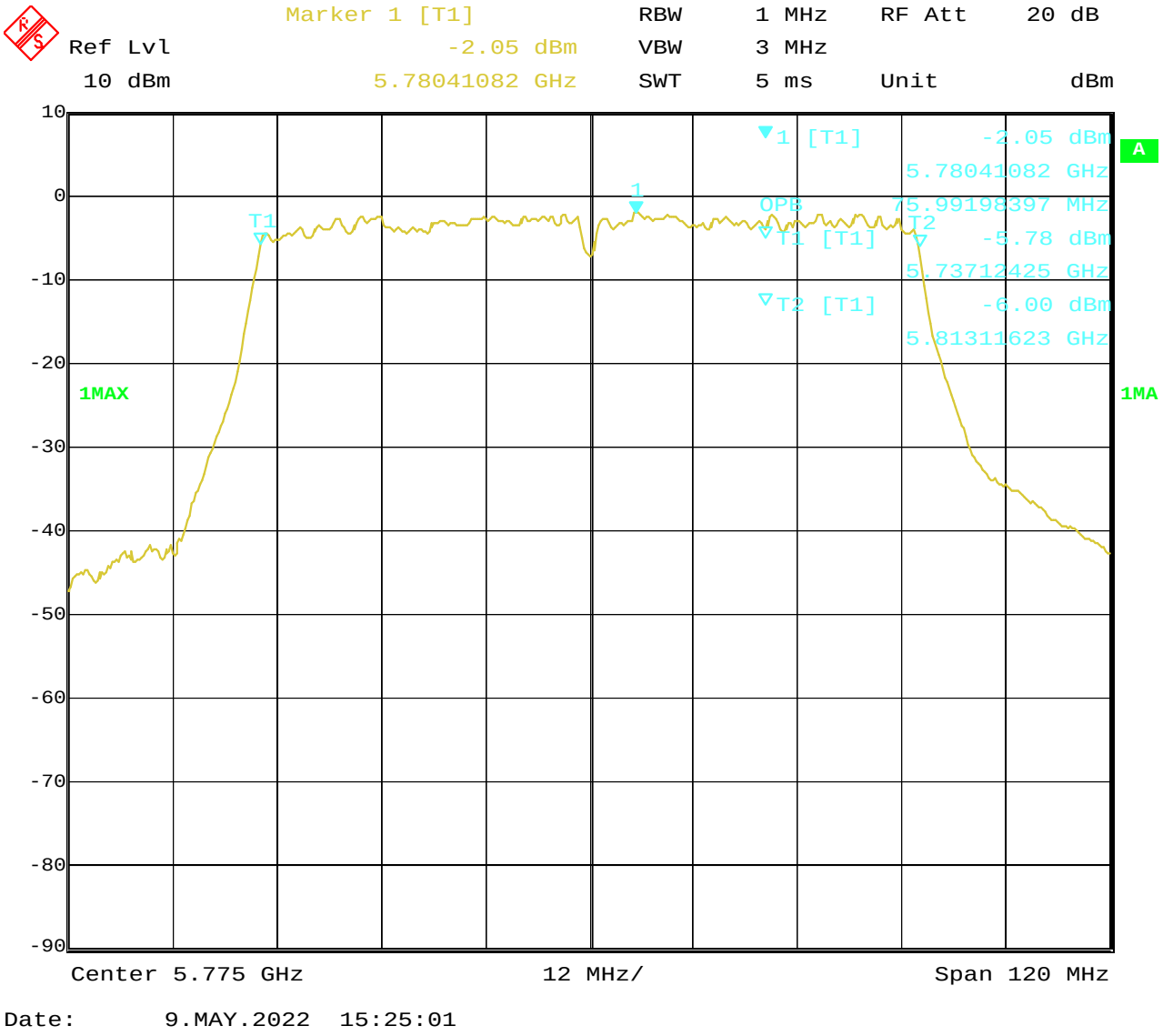
Test Configure

99% Bandwidth

Channel 155



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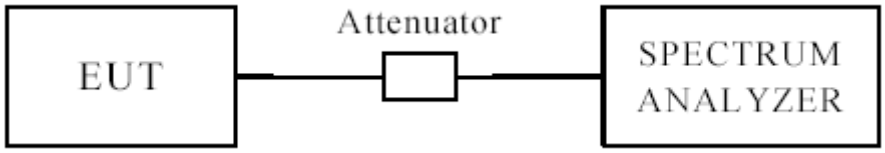
8.0 Peak Transmit Power Measurement

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)
	√	Mobile and Portable 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 RF 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	Tablet PC	Model	K13
Mode	802.11a	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power (dBm)	Limit (dBm)	Pass/ Fail
36	5180	8.61	24	Pass
40	5200	8.39	24	Pass
48	5240	8.33	24	Pass
149	5745	11.52	30	Pass
153	5765	11.37	30	Pass
161	5825	10.95	30	Pass

Note: 1. At finial test to get the worst-case emission at 6Mbps for CH36, CH40, CH48, CH149, CH153 and CH161

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	Tablet PC	Model	K13
Mode	802.11n HT20	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power (dBm)	Limit (dBm)	Pass/ Fail
36	5180	8.15	24	Pass
40	5200	8.03	24	Pass
48	5240	7.95	24	Pass
149	5745	11.27	30	Pass
153	5765	11.08	30	Pass
161	5825	11.16	30	Pass

Note: 1. At finial test to get the worst-case emission at mcs0 for CH36, CH40, CH48, CH149, CH153 and CH161

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	Tablet PC	Model	K13
Mode	802.11n HT40	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power (dBm)	Limit (dBm)	Pass/ Fail
38	5190	7.56	24	Pass
46	5230	7.34	24	Pass
151	5755	10.43	30	Pass
159	5795	10.29	30	Pass

Note: 1. At finial test to get the worst-case emission at mcs0 for CH38, CH46, CH151, CH159 and CH161

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	Tablet PC	Model	K13
Mode	802.11ac VHT20	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power (dBm)	Limit (dBm)	Pass/ Fail
36	5180	8.22	24	Pass
40	5200	8.35	24	Pass
48	5240	8.09	24	Pass
149	5745	11.18	30	Pass
153	5765	10.93	30	Pass
161	5825	10.87	30	Pass

Note: 1. At finial test to get the worst-case emission at mcs0 for CH36, CH40, CH48, CH149, CH153 and CH161

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	Tablet PC	Model	K13
Mode	802.11ac VHT40	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power (dBm)	Limit (dBm)	Pass/ Fail
38	5190	7.96	24	Pass
46	5230	7.80	24	Pass
151	5755	10.29	30	Pass
159	5795	10.37	30	Pass

Note: 1. At finial test to get the worst-case emission at mcs0 for CH38, CH46, CH151, CH159 and CH161
2. The result basic equation calculation as follow:
Average Power Output = AV Power Reading + Cable loss + Attenuator
3. The worse case was recorded

EUT	Tablet PC	Model	K13
Mode	802.11ac VHT80	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power (dBm)	Limit (dBm)	Pass/ Fail
42	5210	6.35	24	Pass
155	5775	9.58	30	Pass

Note: 1. At finial test to get the worst-case emission at mcs0 s for CH42 and CH155
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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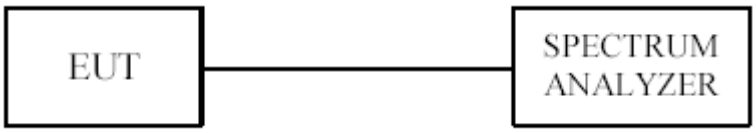
9. Power Spectral Density Measurement

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	
	√	Mobile and Portable 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 or 500kHz
3. Set the VBW =3MHz or 2MHz
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	Tablet PC	Model	K13
Mode	802.11a 6Mbps	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
36	5180	-3.09	11	Pass
40	5200	-2.60	11	Pass
48	5240	-2.55	11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail
149	5745	-4.80	30	Pass
153	5765	-4.64	30	Pass
161	5825	-4.35	30	Pass

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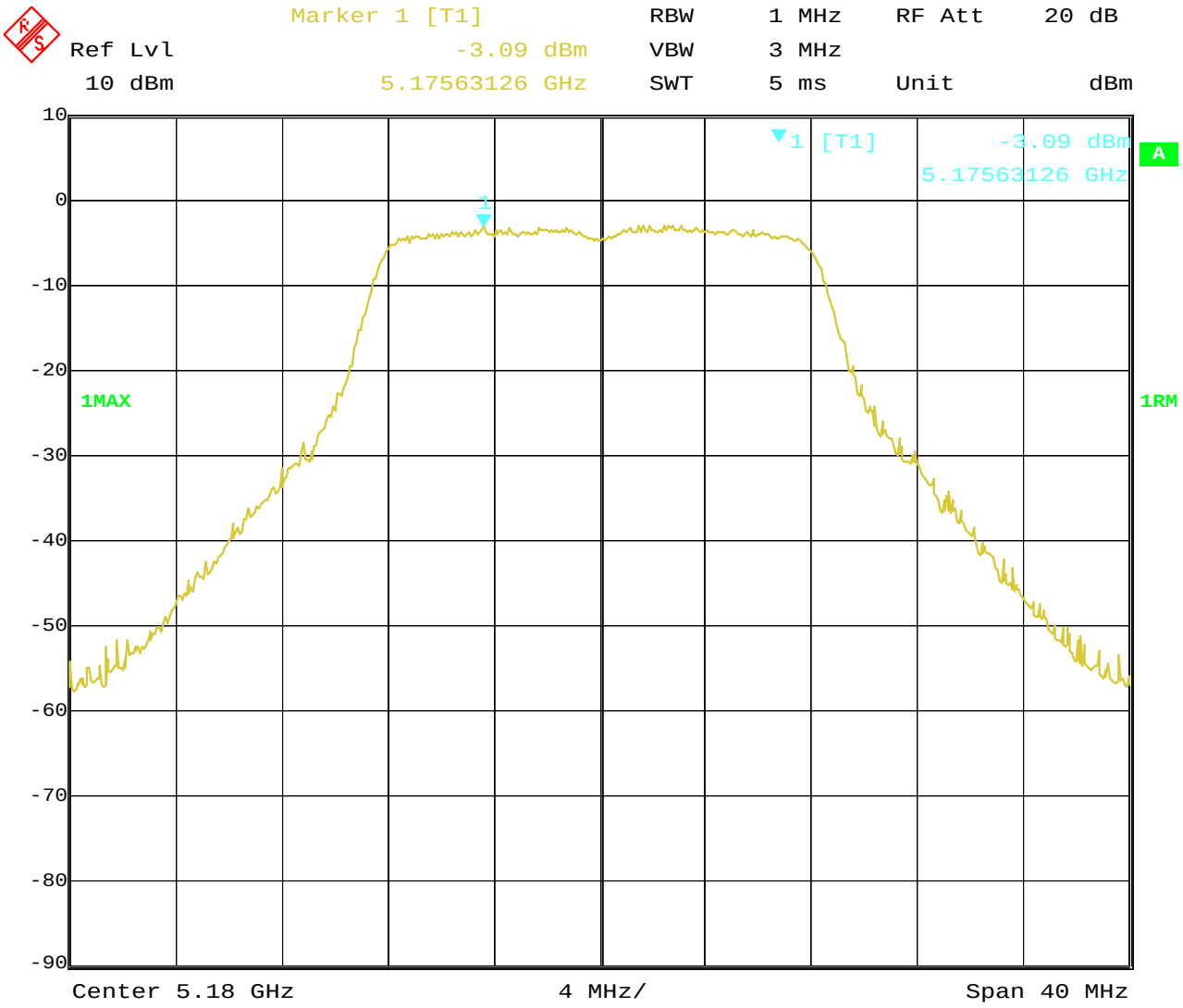
9.5 Plots of Power Spectral Density Measurement

1.802.11a at 6Mbps of CH36



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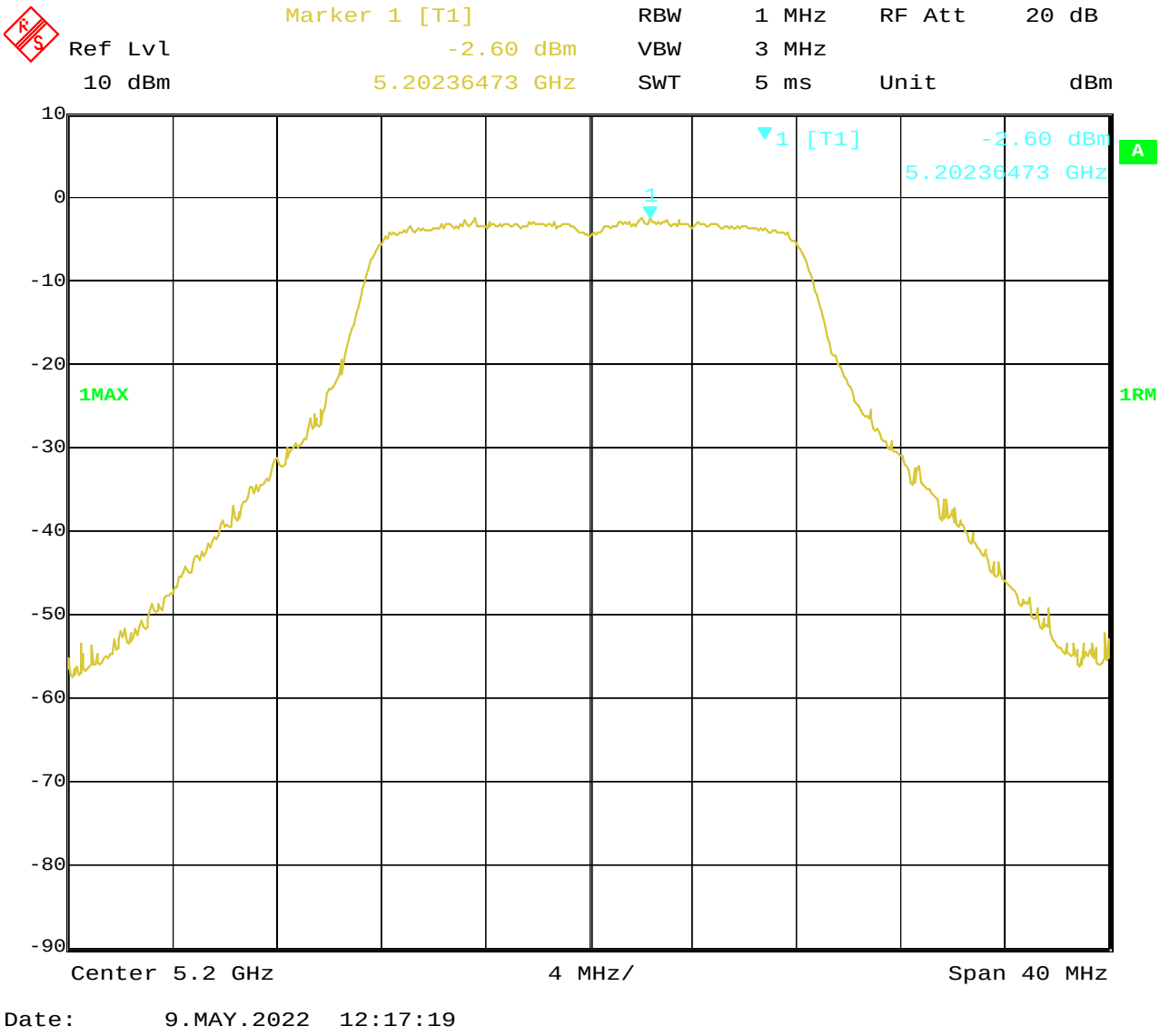
2.802.11a at 6Mbps of CH40



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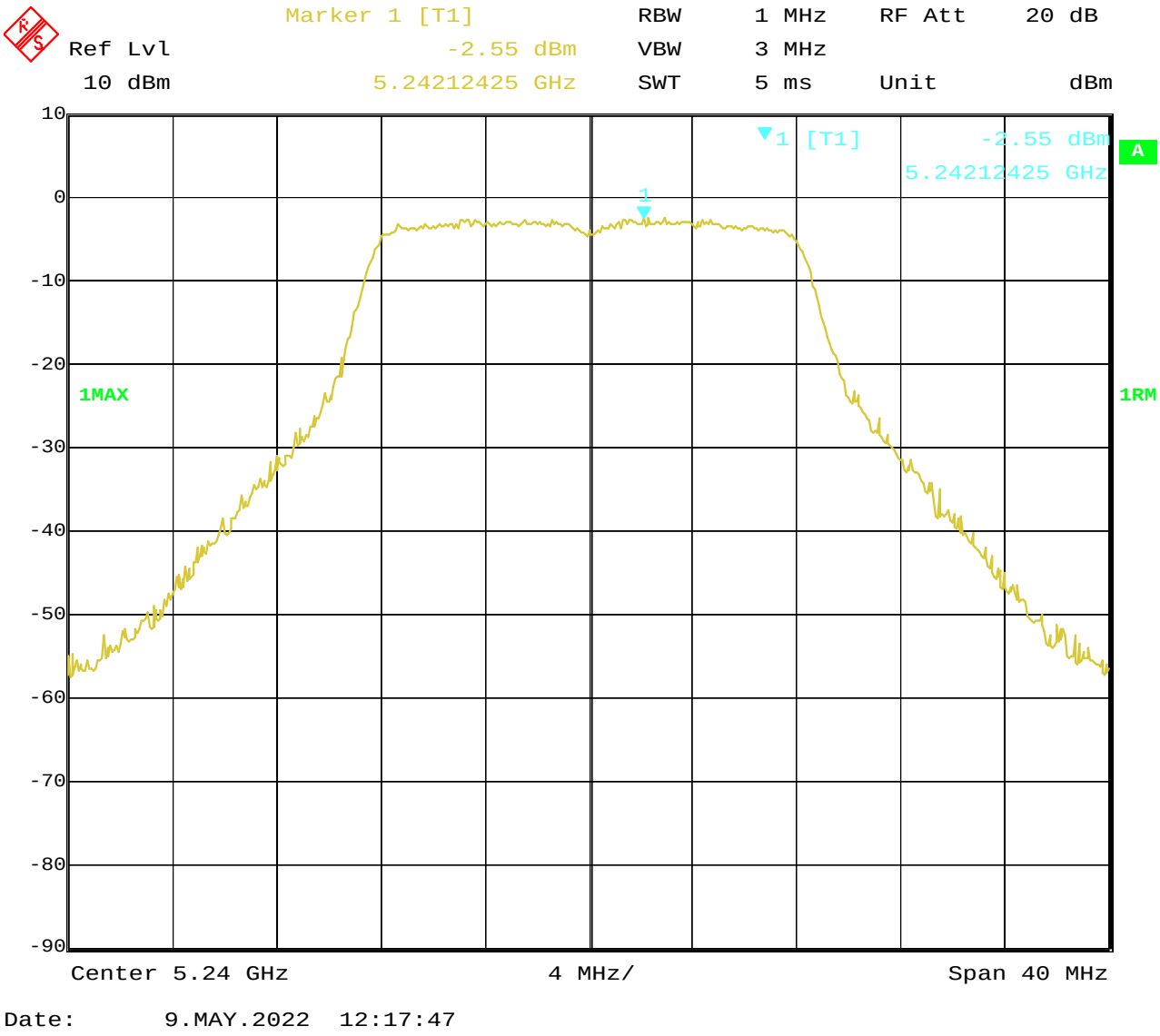
3.802.11a at 6Mbps of CH48



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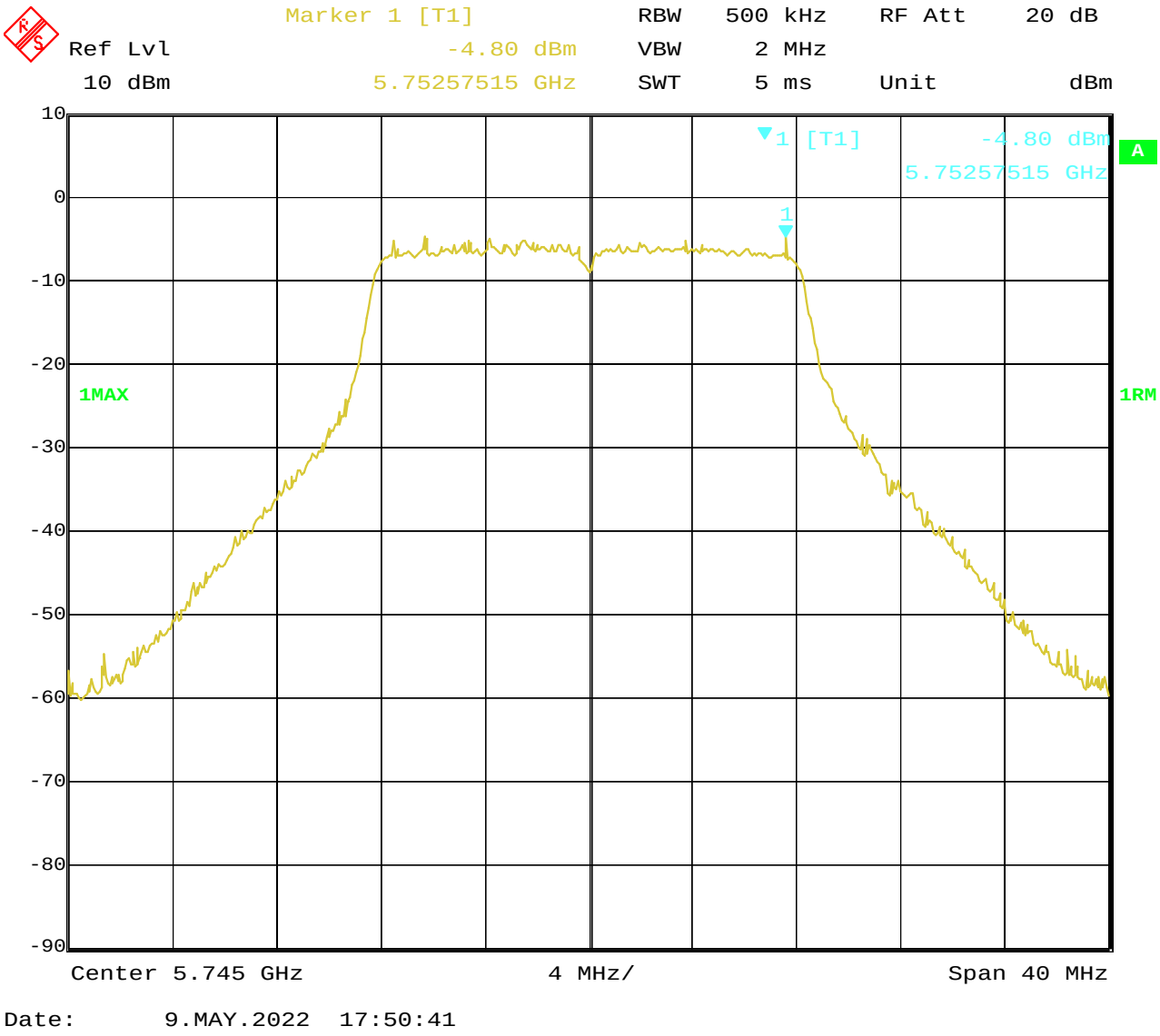
4.802.11a at 6Mbps of CH149



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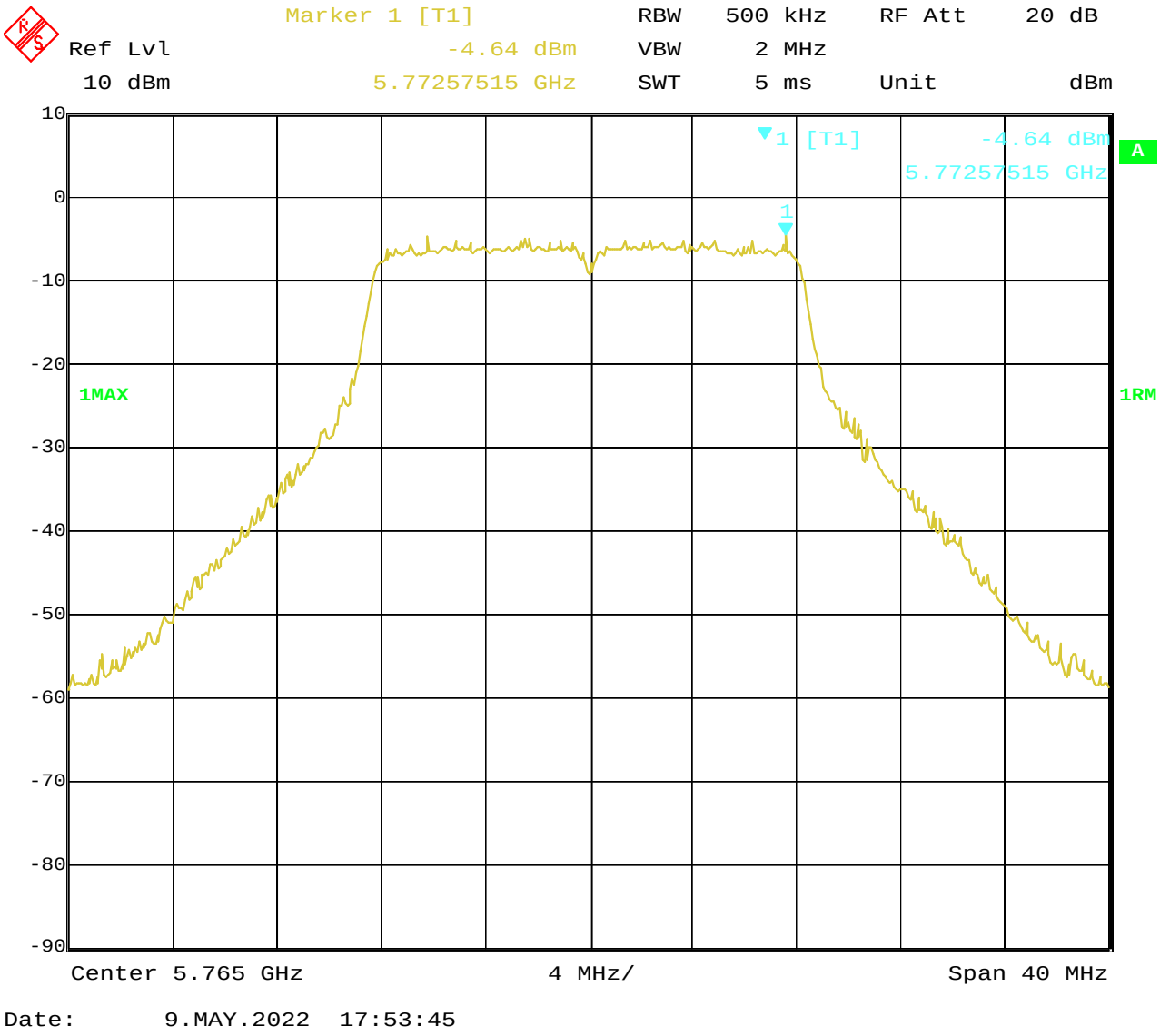
5.802.11a at 6Mbps of CH153



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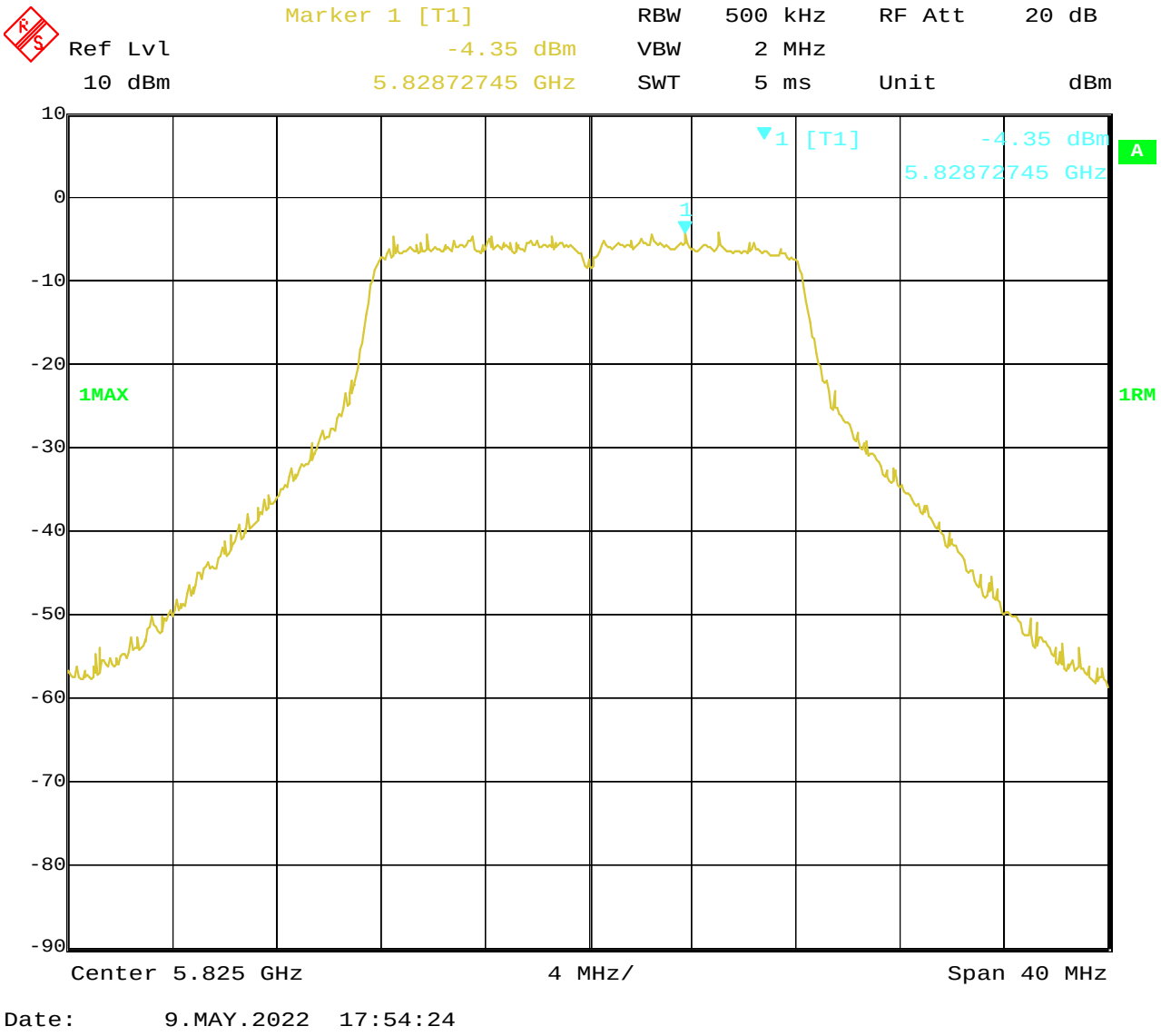
6.802.11a at 6Mbps of CH161



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EUT	Tablet PC	Model	K13
Mode	802.11n HT20 mcs0	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
36	5180	-2.91	11	Pass
40	5200	-2.84	11	Pass
48	5240	-2.55	11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail
149	5745	-4.40	30	Pass
153	5765	-4.41	30	Pass
161	5825	-4.96	30	Pass

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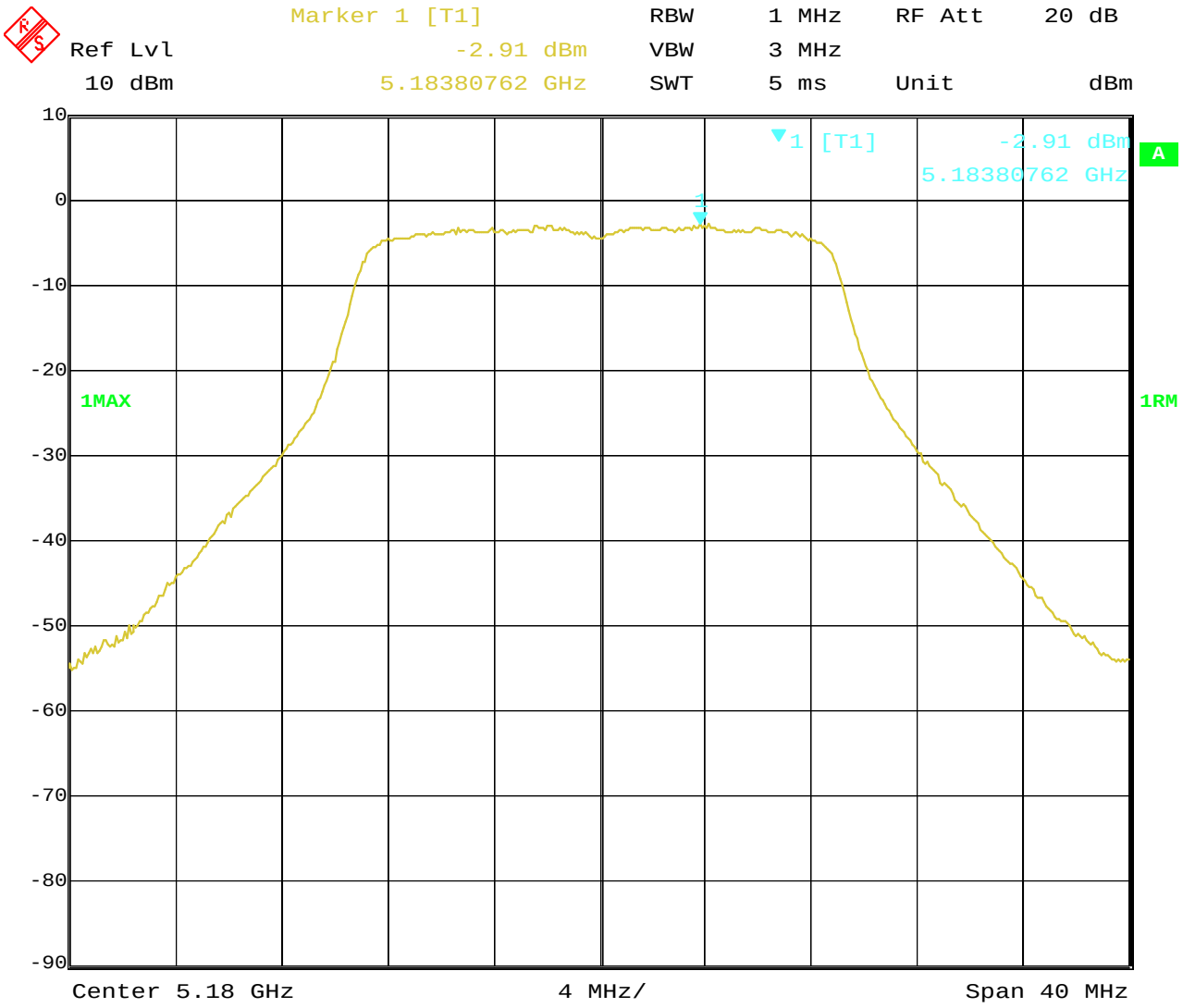
Test Plots

1.802.11n at mcs0 of CH36



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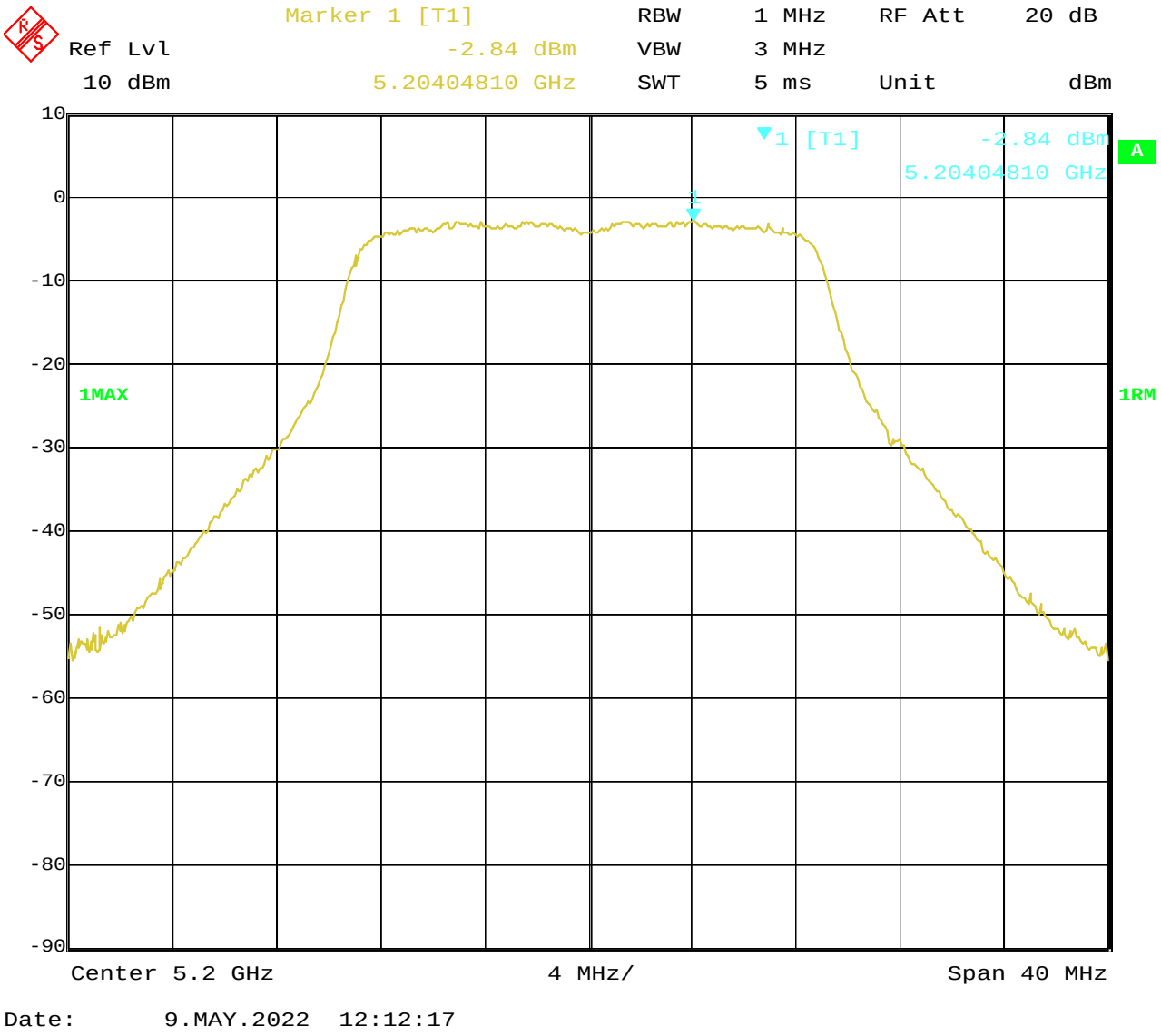
2.802.11n at mcs0 of CH40



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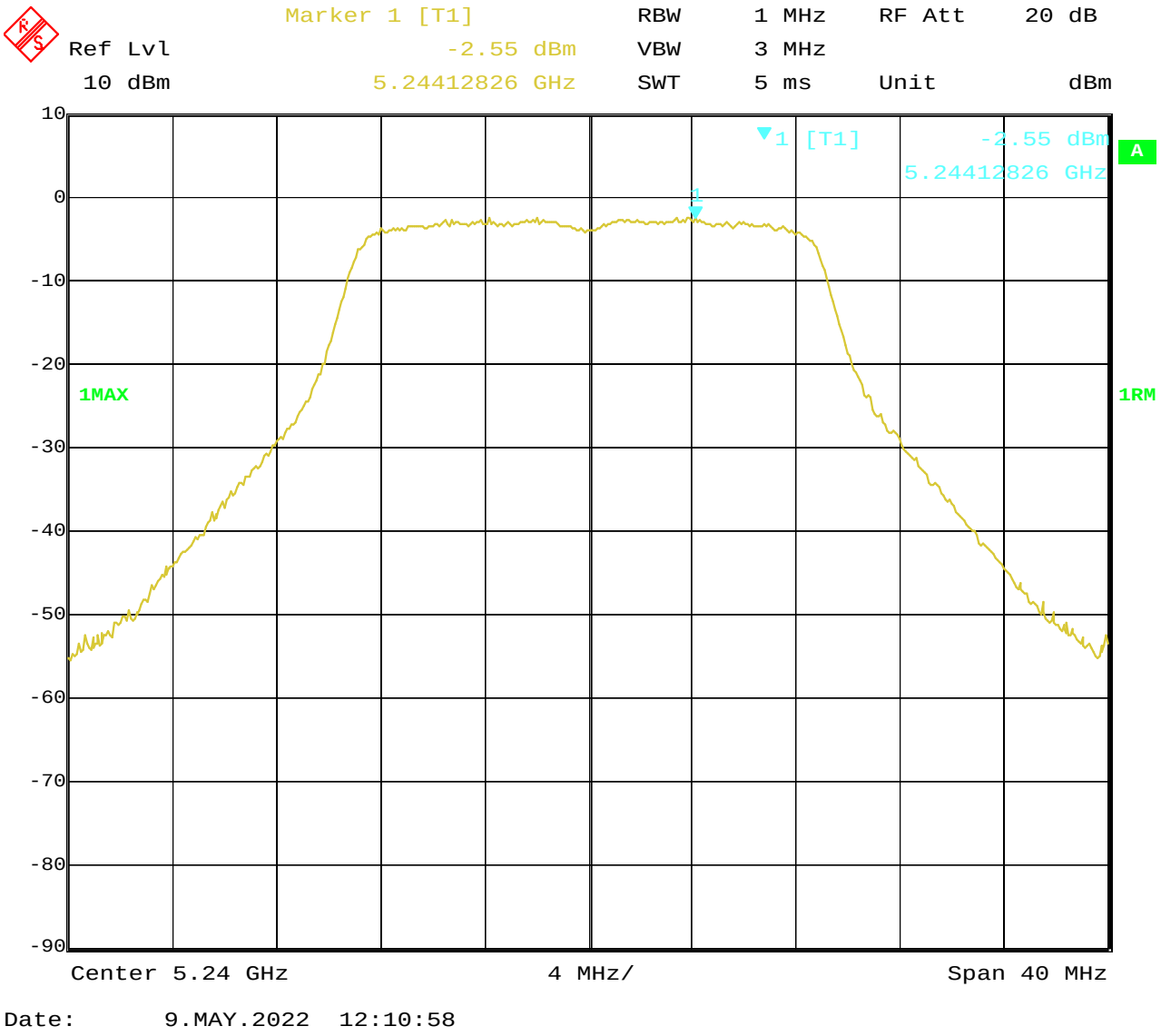
3.802.11n at mcs0 of CH48



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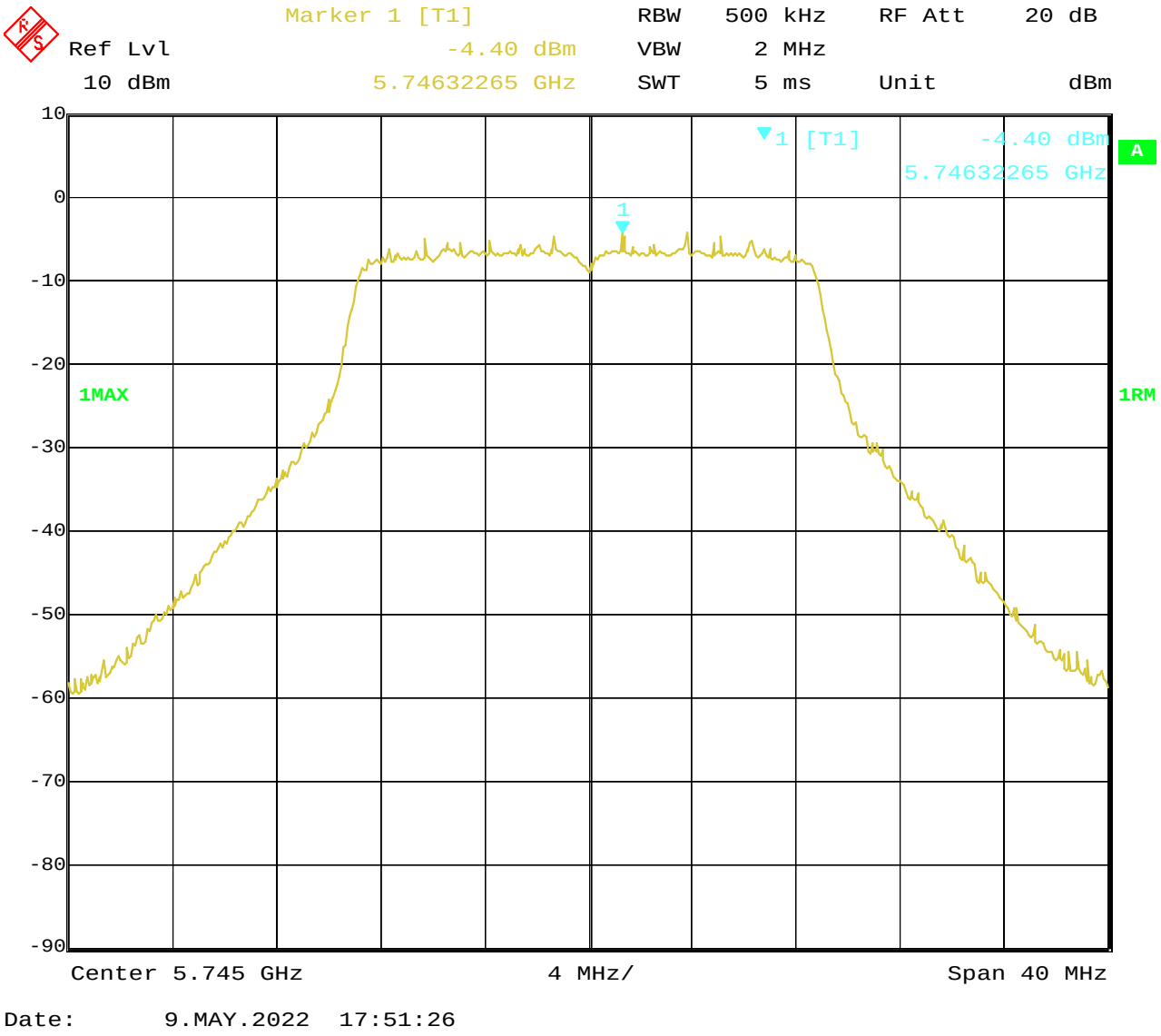
4.802.11n at mcs0 of CH149



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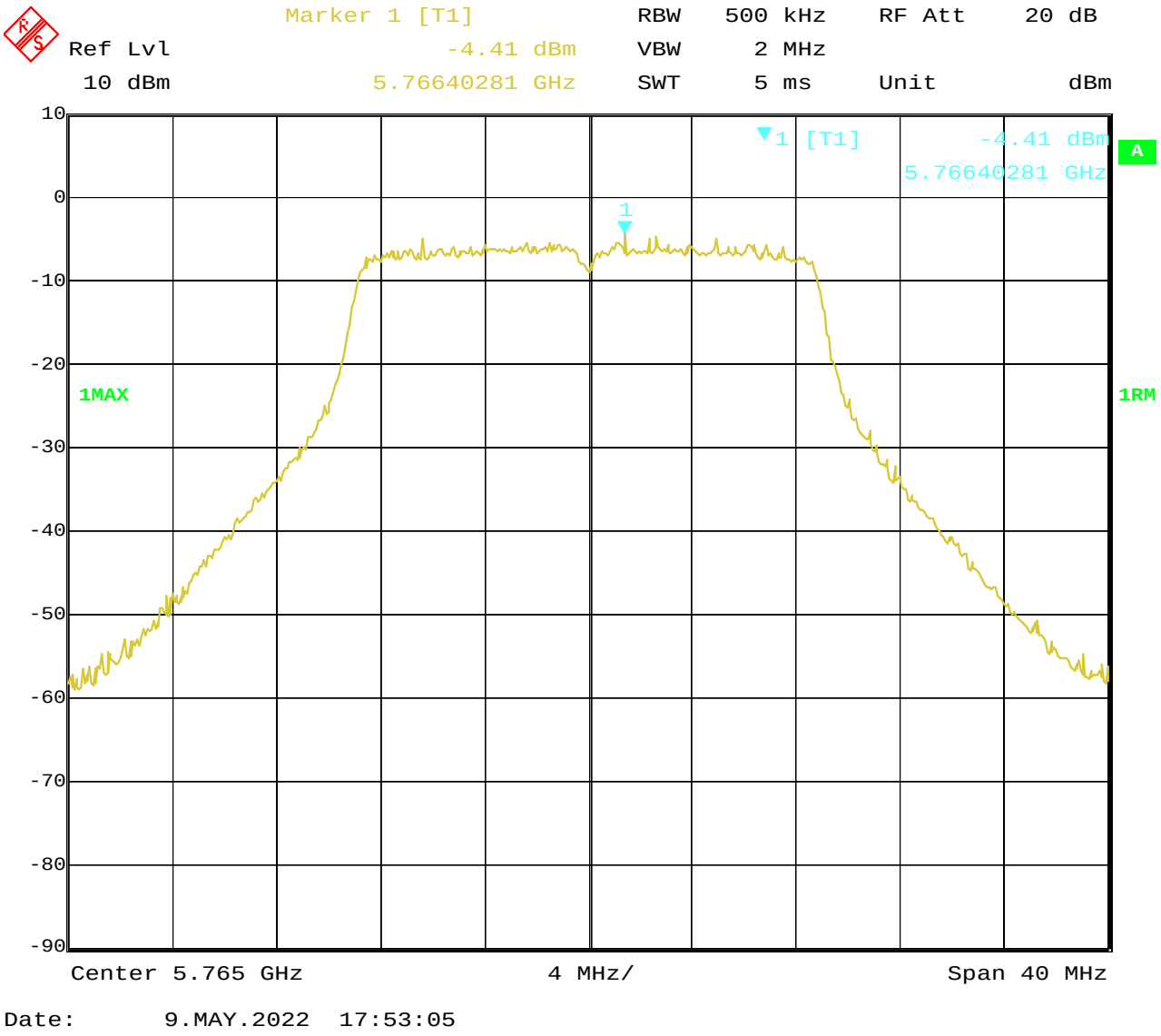
5.802.11n at mcs0 of CH153



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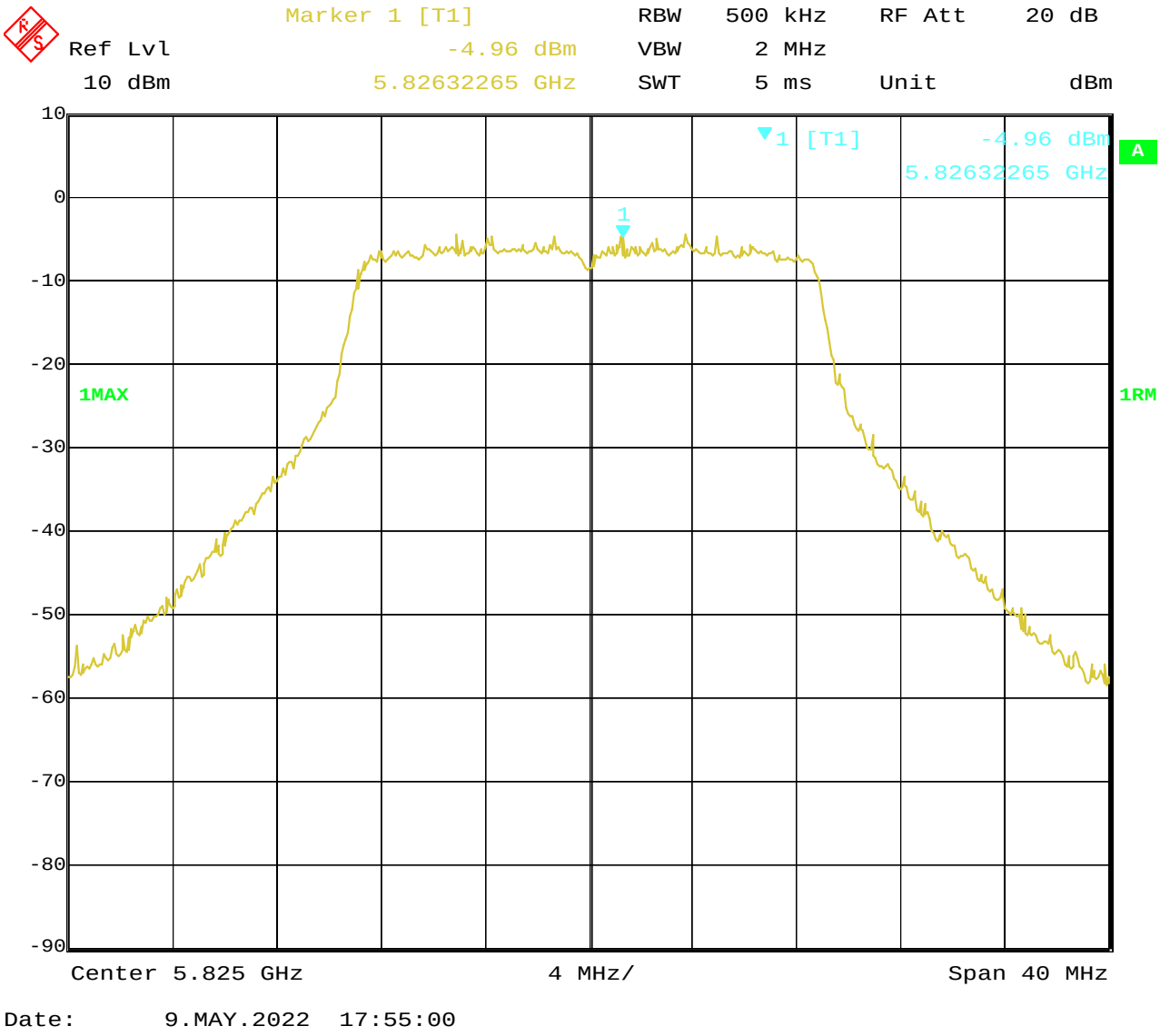
6.802.11n at mcs0 of CH161



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EUT	Tablet PC	Model	K13
Mode	802.11n HT40 mcs0	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
38	5190	-5.84	11	Pass
46	5230	-5.02	11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail
151	5755	-7.45	30	Pass
159	5795	-6.80	30	Pass

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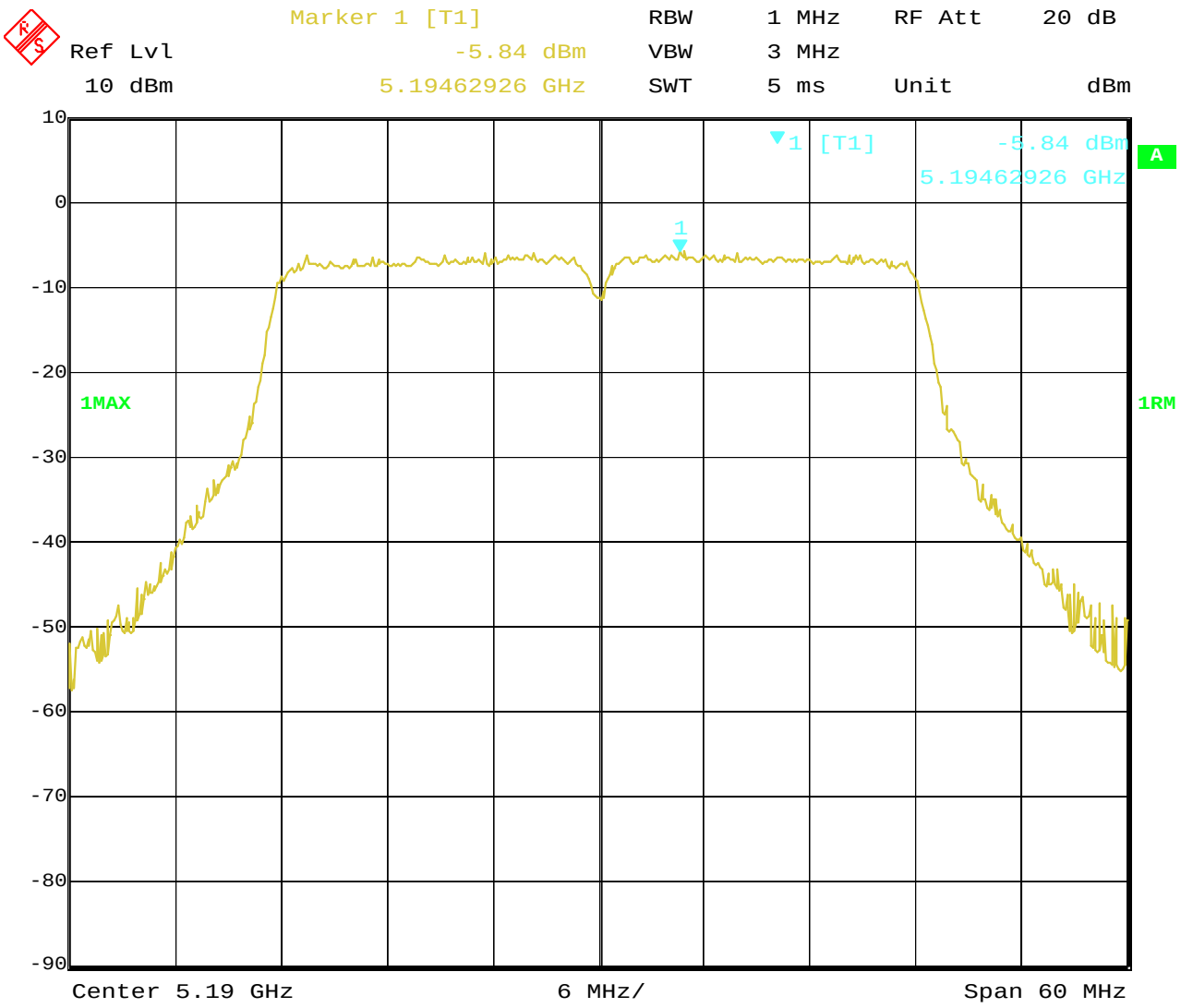
Test Plots

1.802.11n HT40 at mcs0 of CH38



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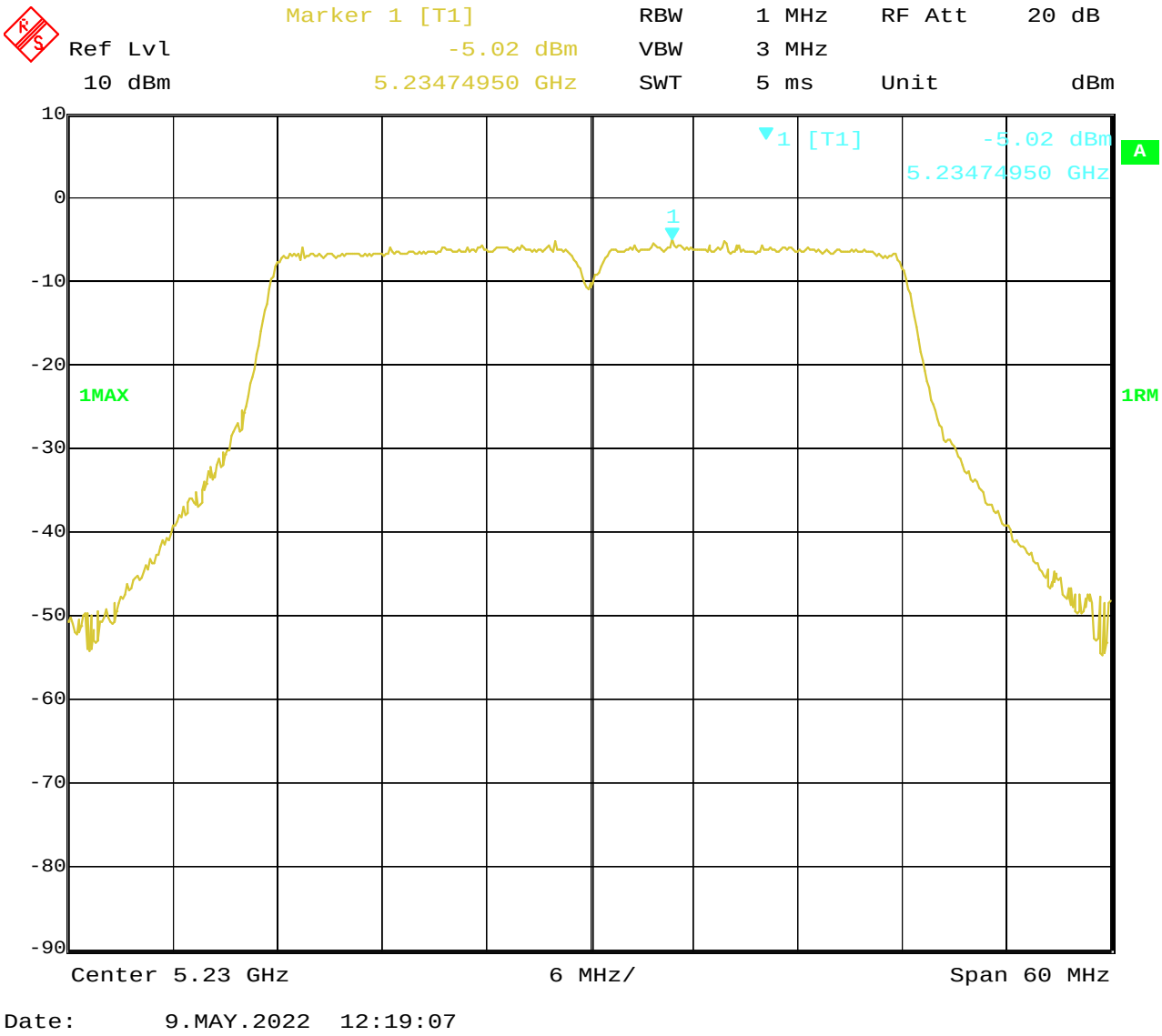
2.802.11n HT40 at mcs0 of CH46



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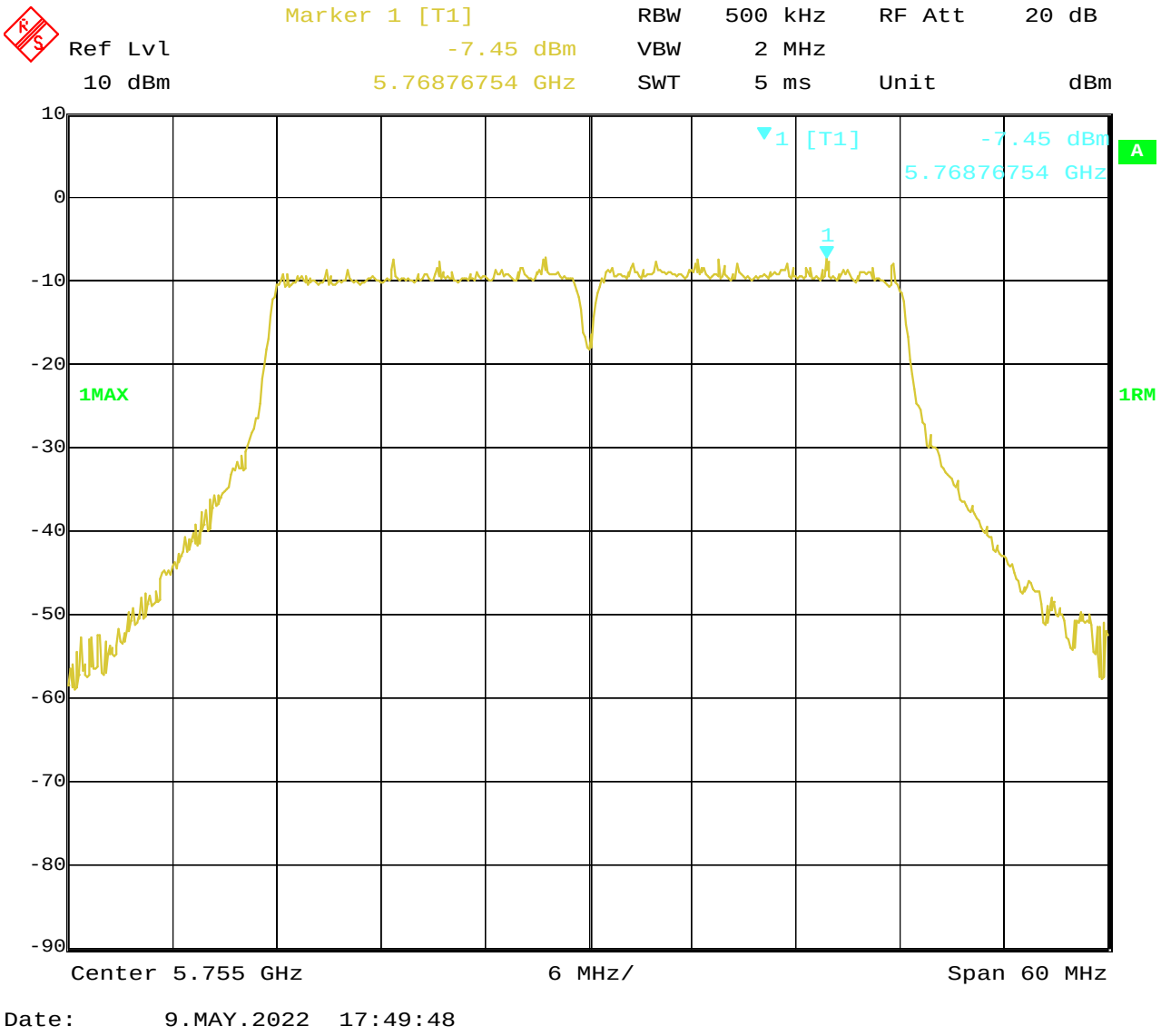
3.802.11n HT40 at mcs0 of CH151



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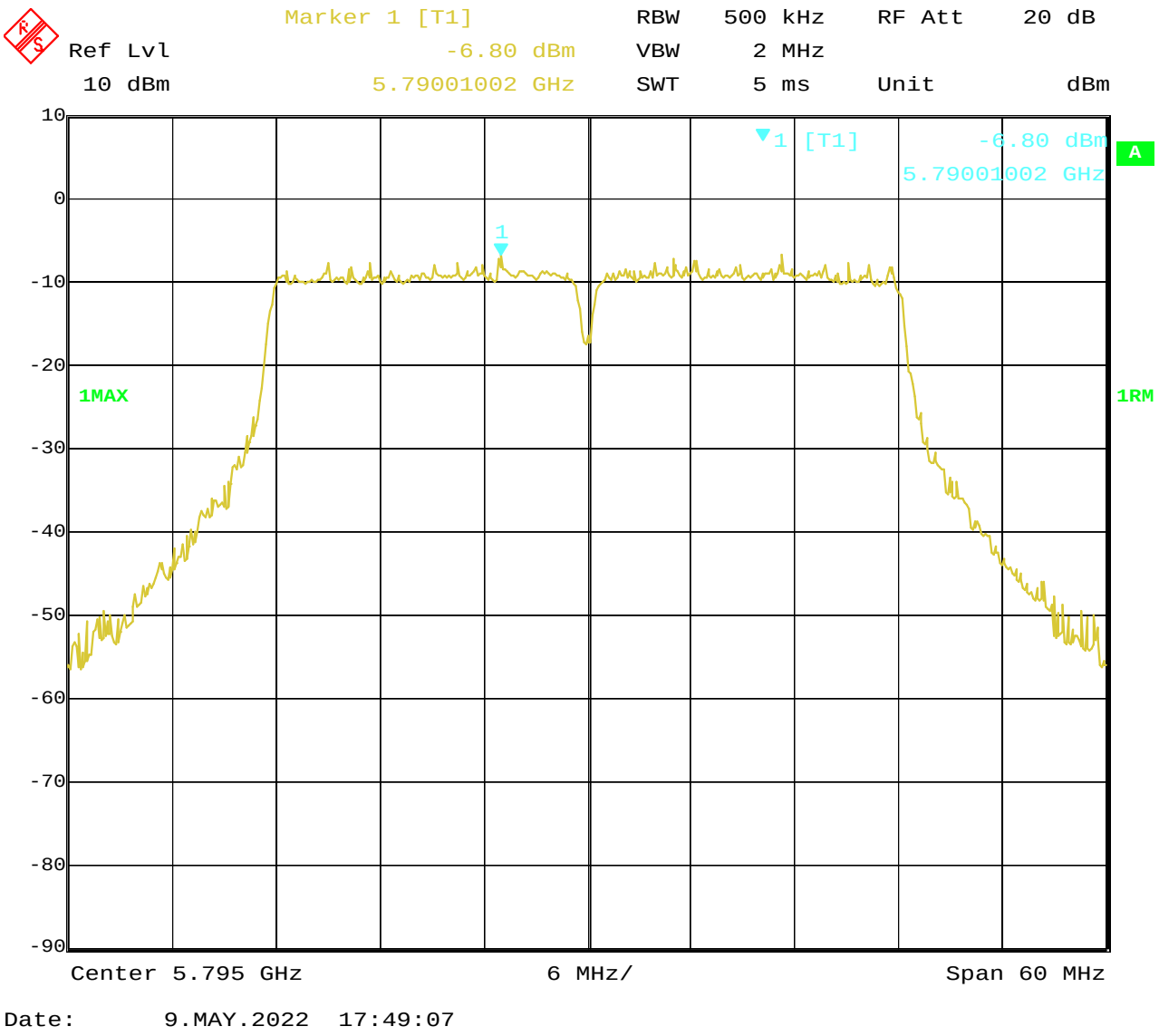
4.802.11n HT40 at mcs0 of CH159



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EUT	Tablet PC	Model	K13
Mode	802.11ac VHT20	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
36	5180	-2.78	11	Pass
40	5200	-2.67	11	Pass
48	5240	-2.60	11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail
149	5745	-4.59	30	Pass
153	5765	-4.26	30	Pass
161	5825	-4.11	30	Pass

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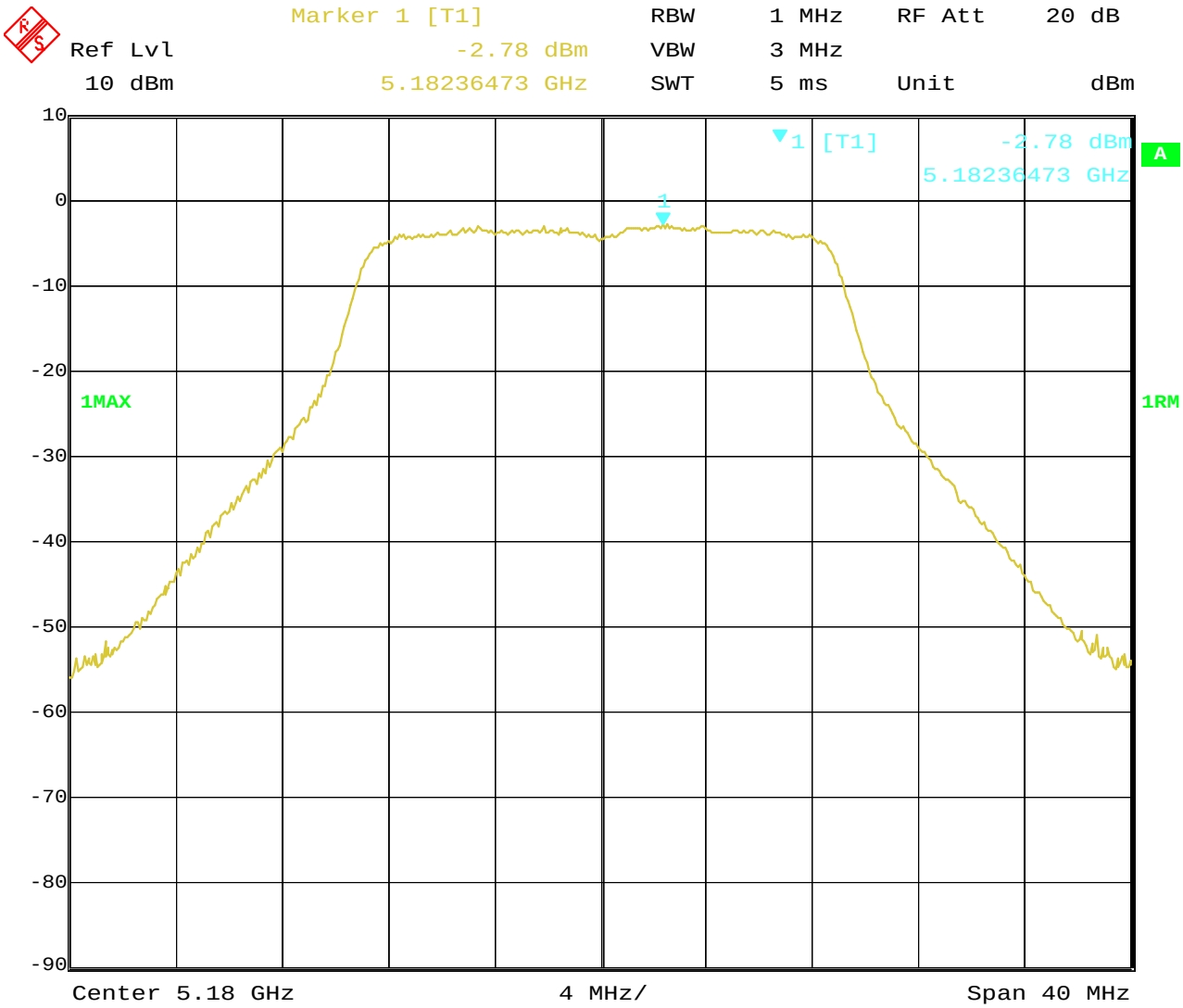
Test Plots

1.802.11ac at mcs0 of CH36



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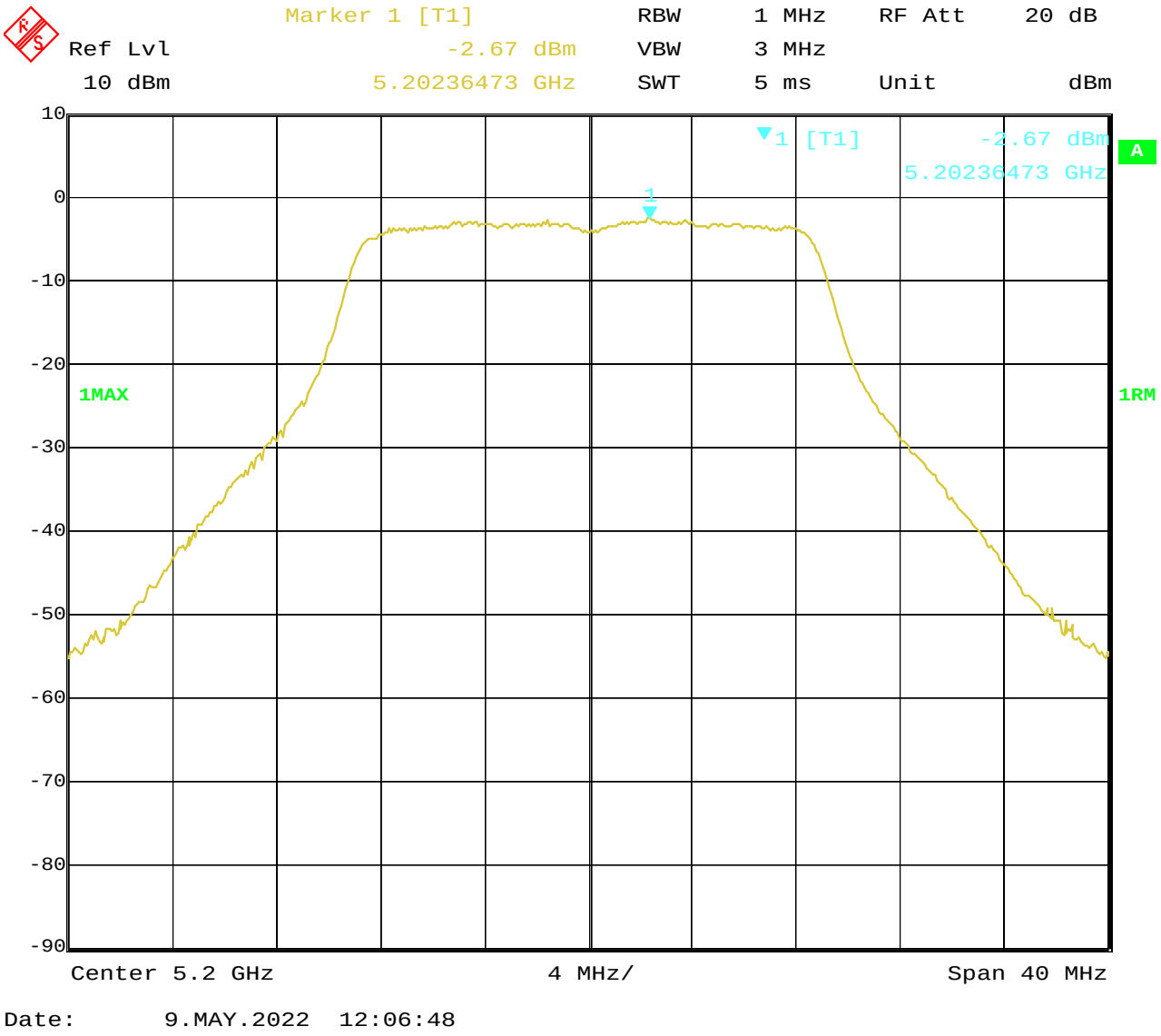
2.802.11ac at mcs0 of CH40



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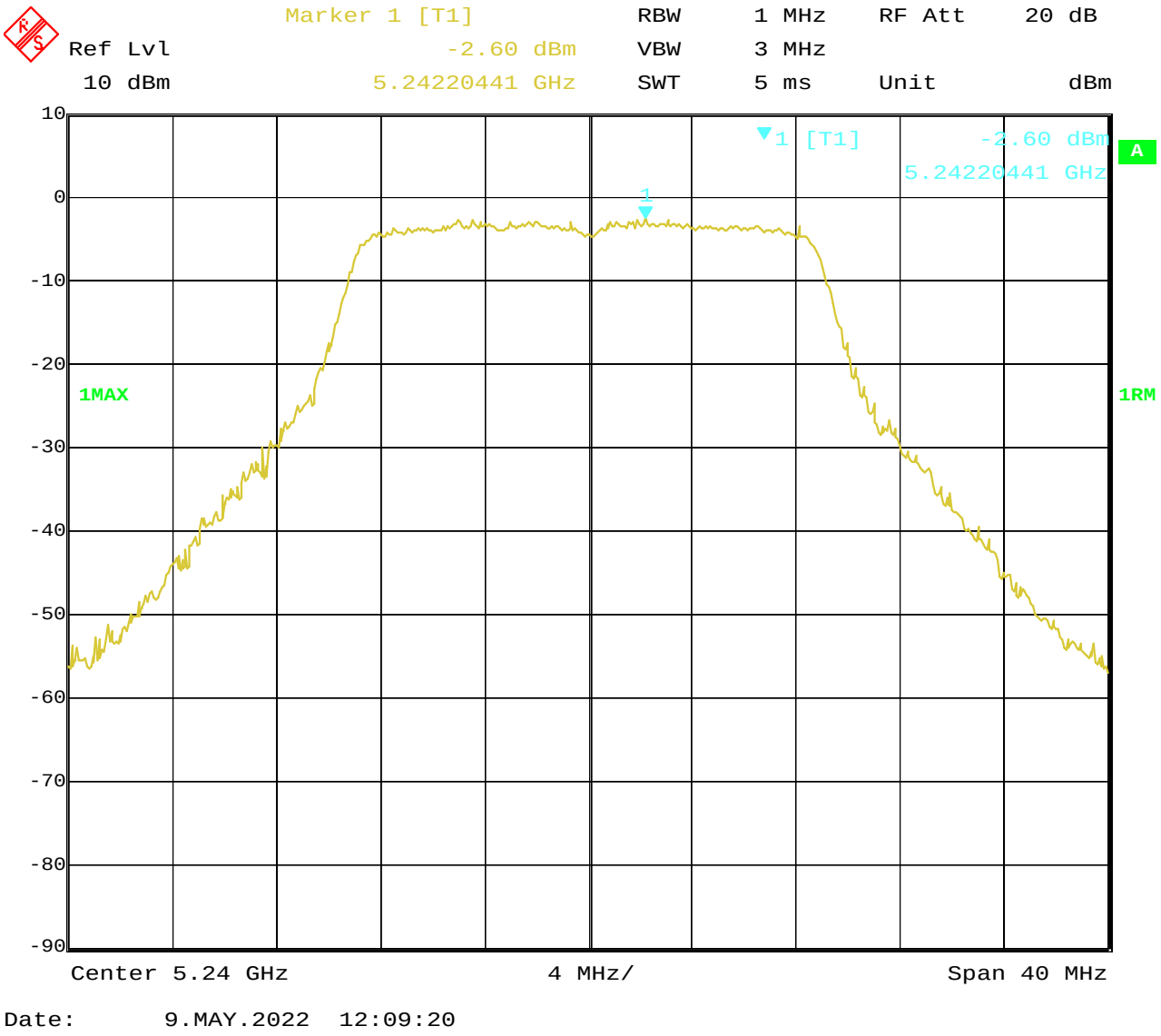
3.802.11ac at mcs0 of CH48



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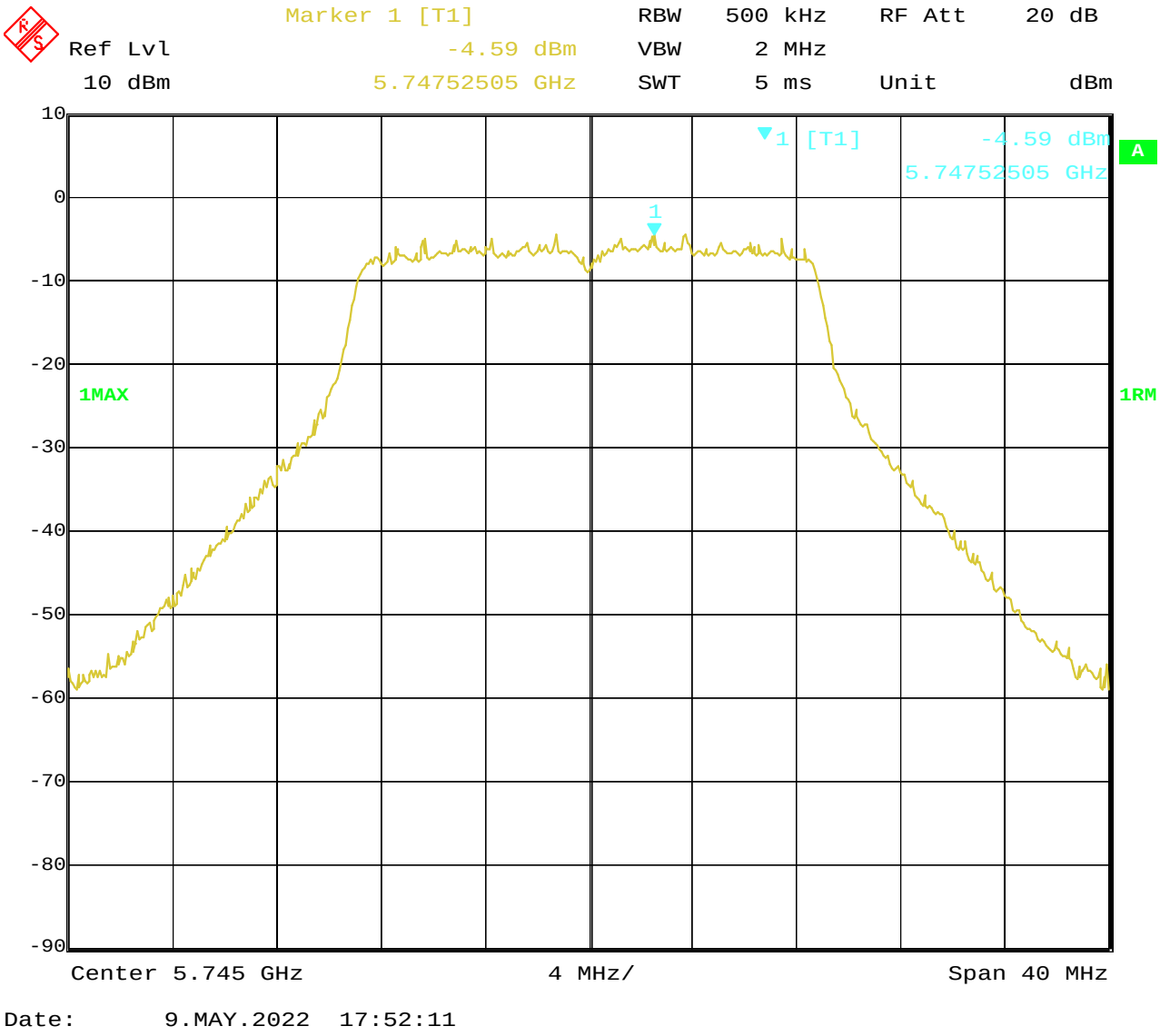
4.802.11ac at mcs0 of CH149



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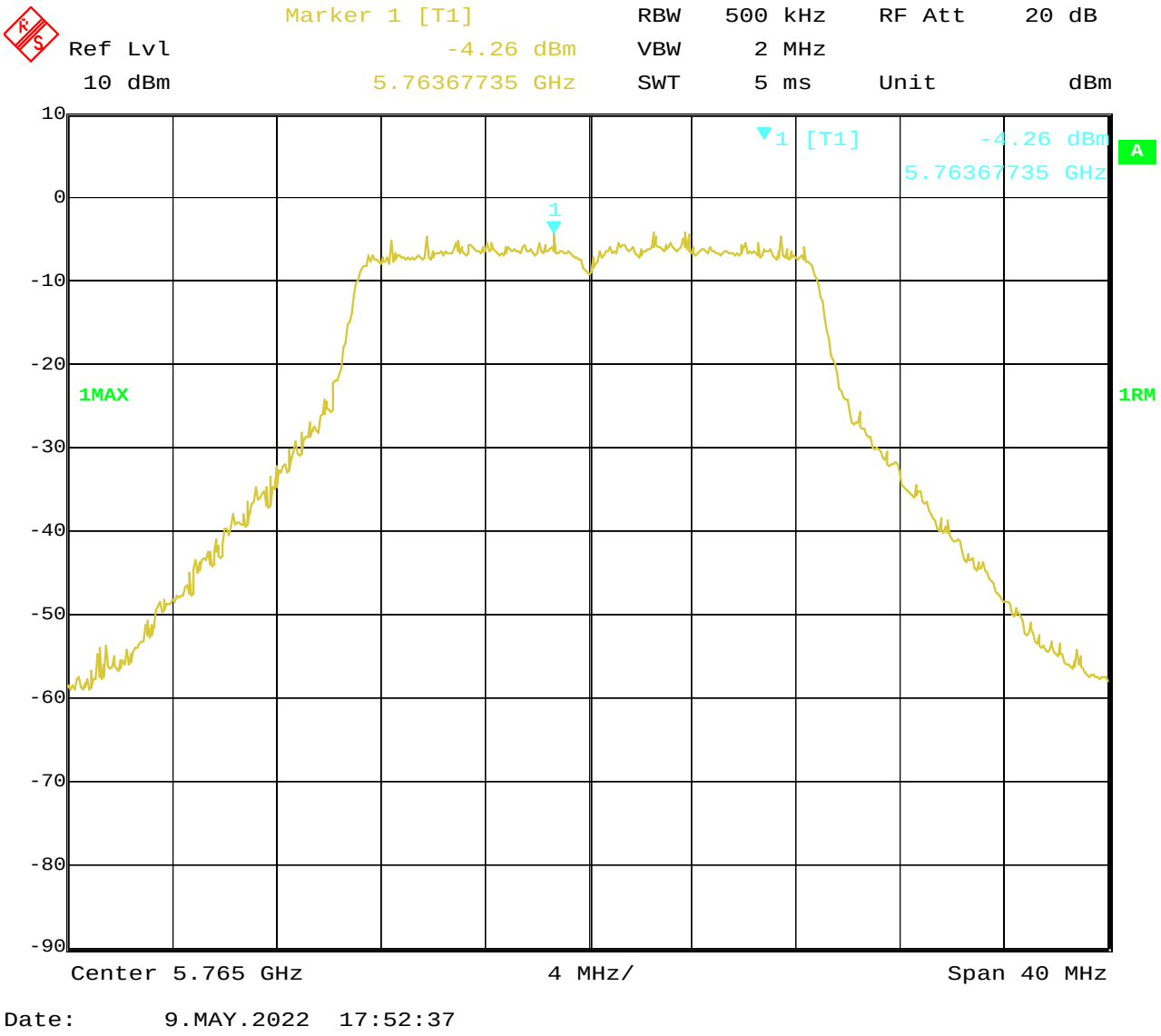
5.802.11ac at mcs0 of CH153



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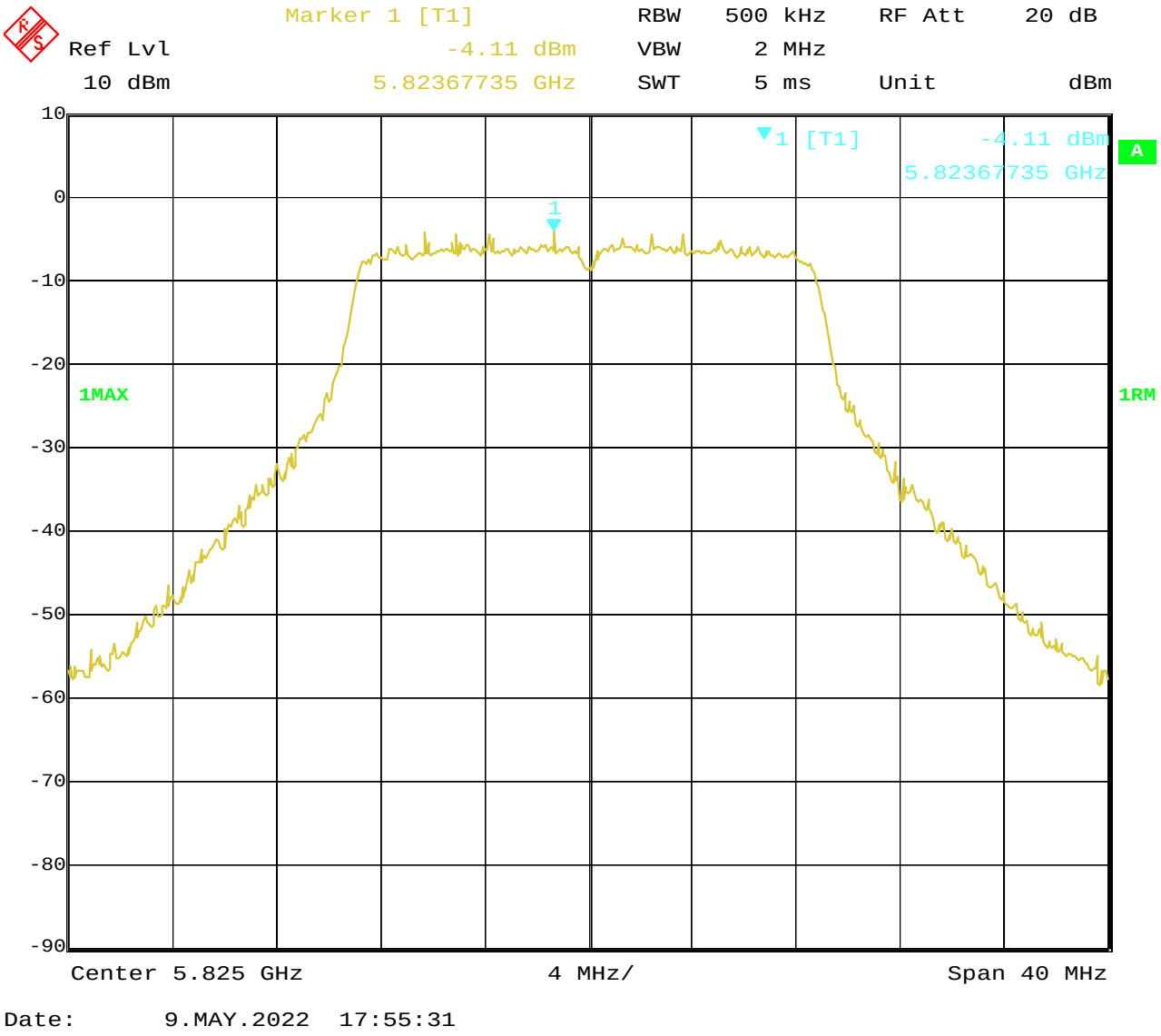
6.802.11ac at mcs0 of CH161



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EUT	Tablet PC	Model	K13
Mode	802.11ac VHT40	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
38	5190	-5.90	11	Pass
46	5230	-5.44	11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail
151	5755	-7.07	30	Pass
159	5795	-7.12	30	Pass

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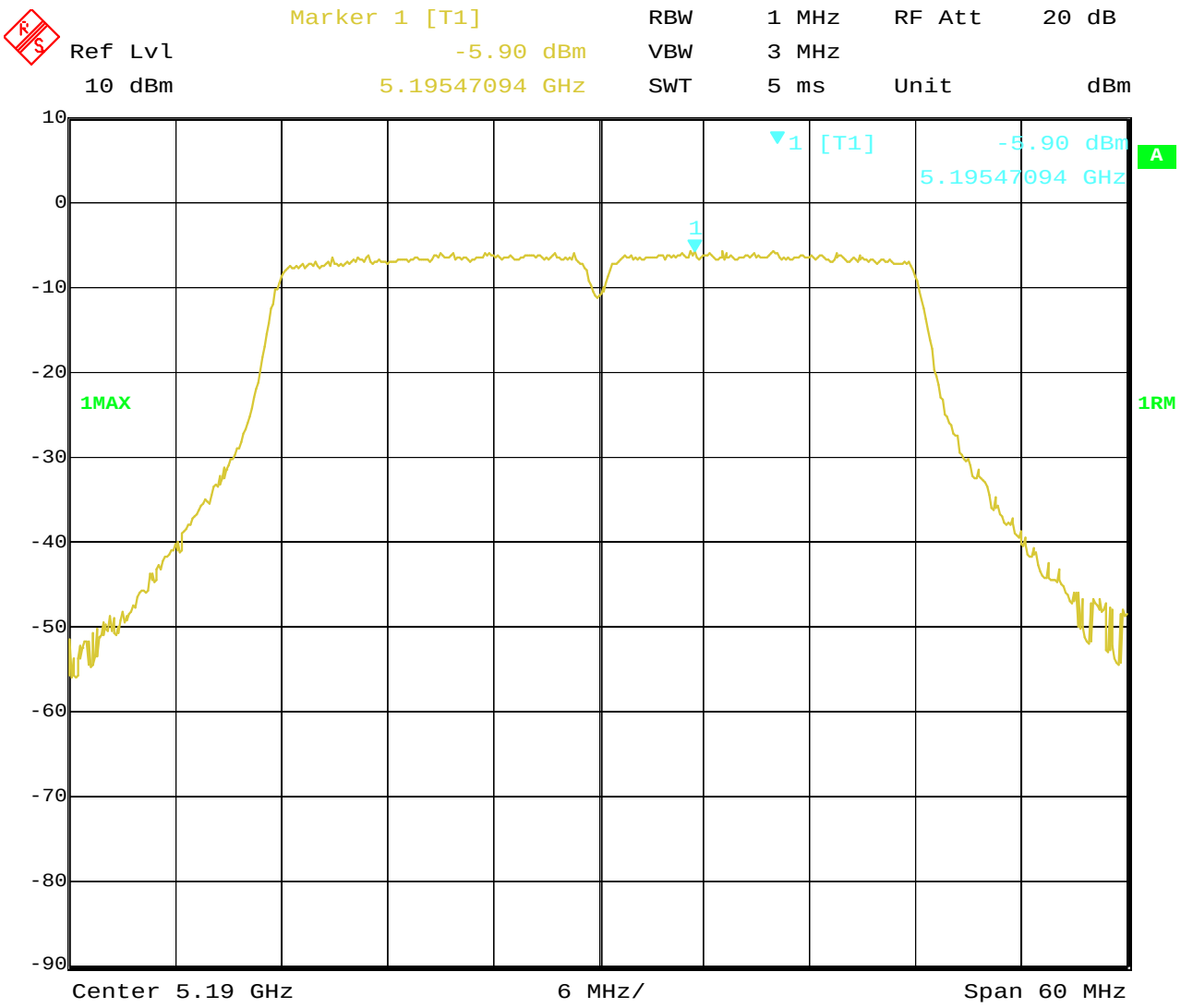
Test Plots

1.802.11ac at mcs0 of CH38



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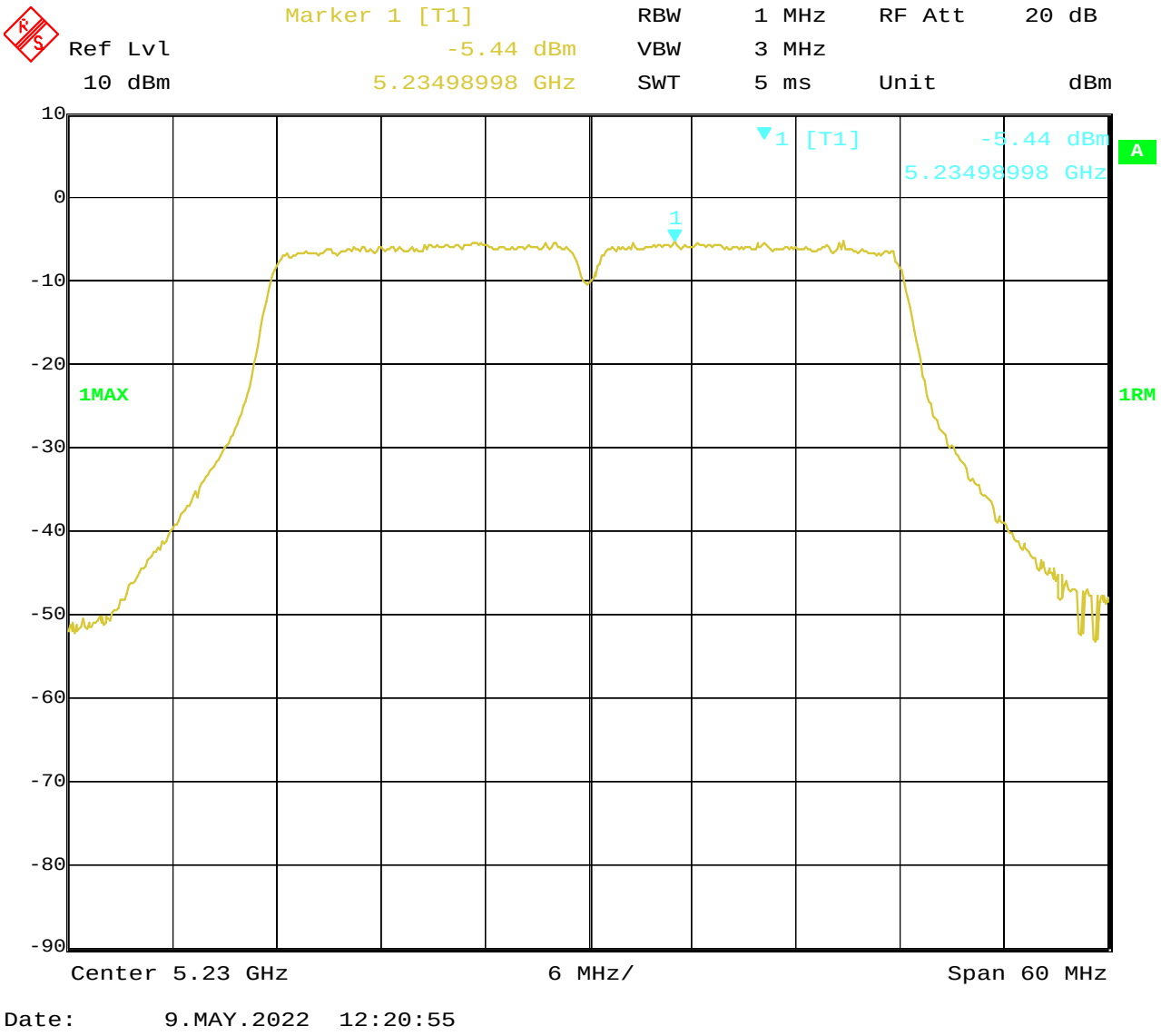
2.802.11ac at mcs0 of CH46



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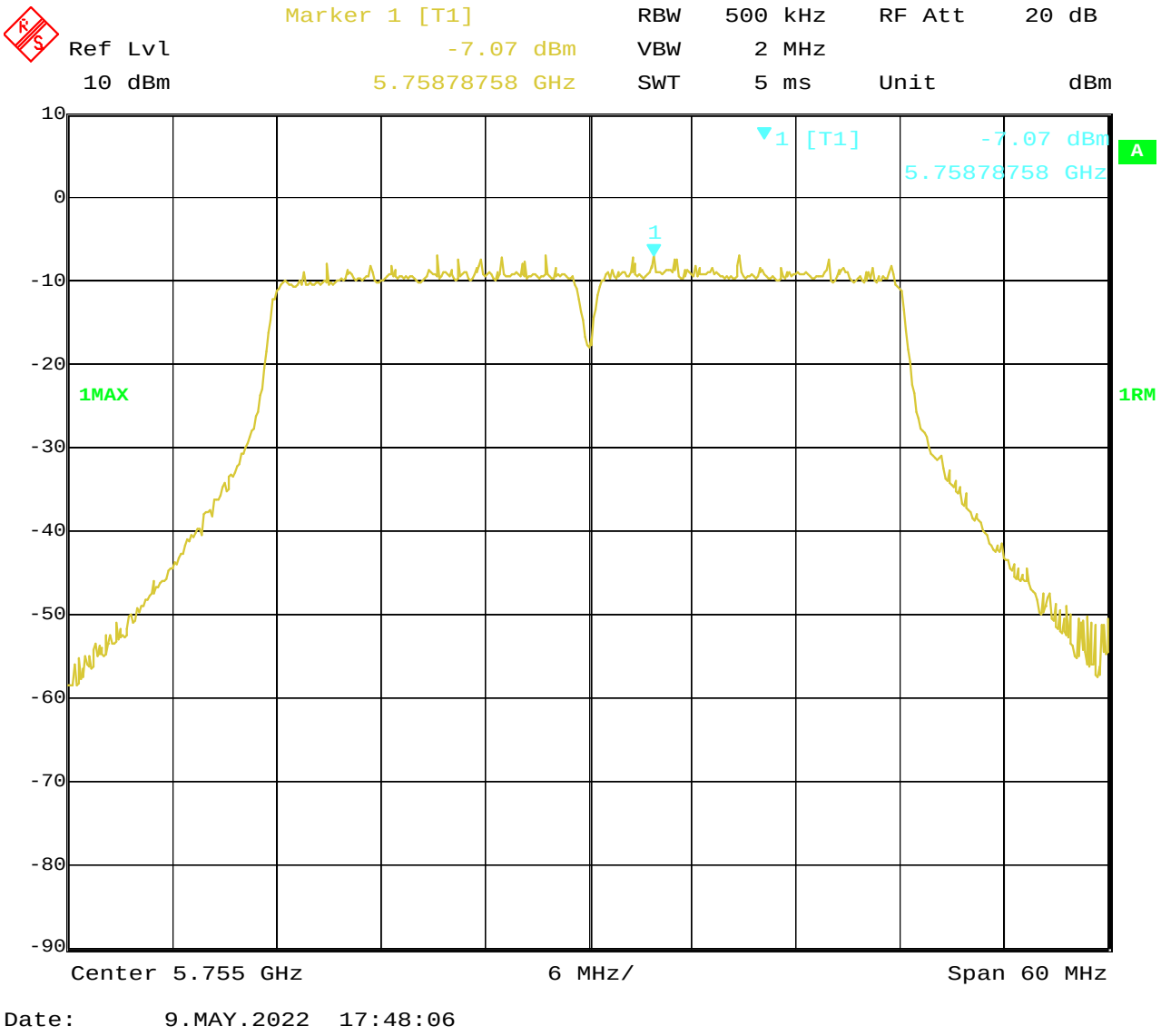
3.802.11ac at mcs0 of CH151



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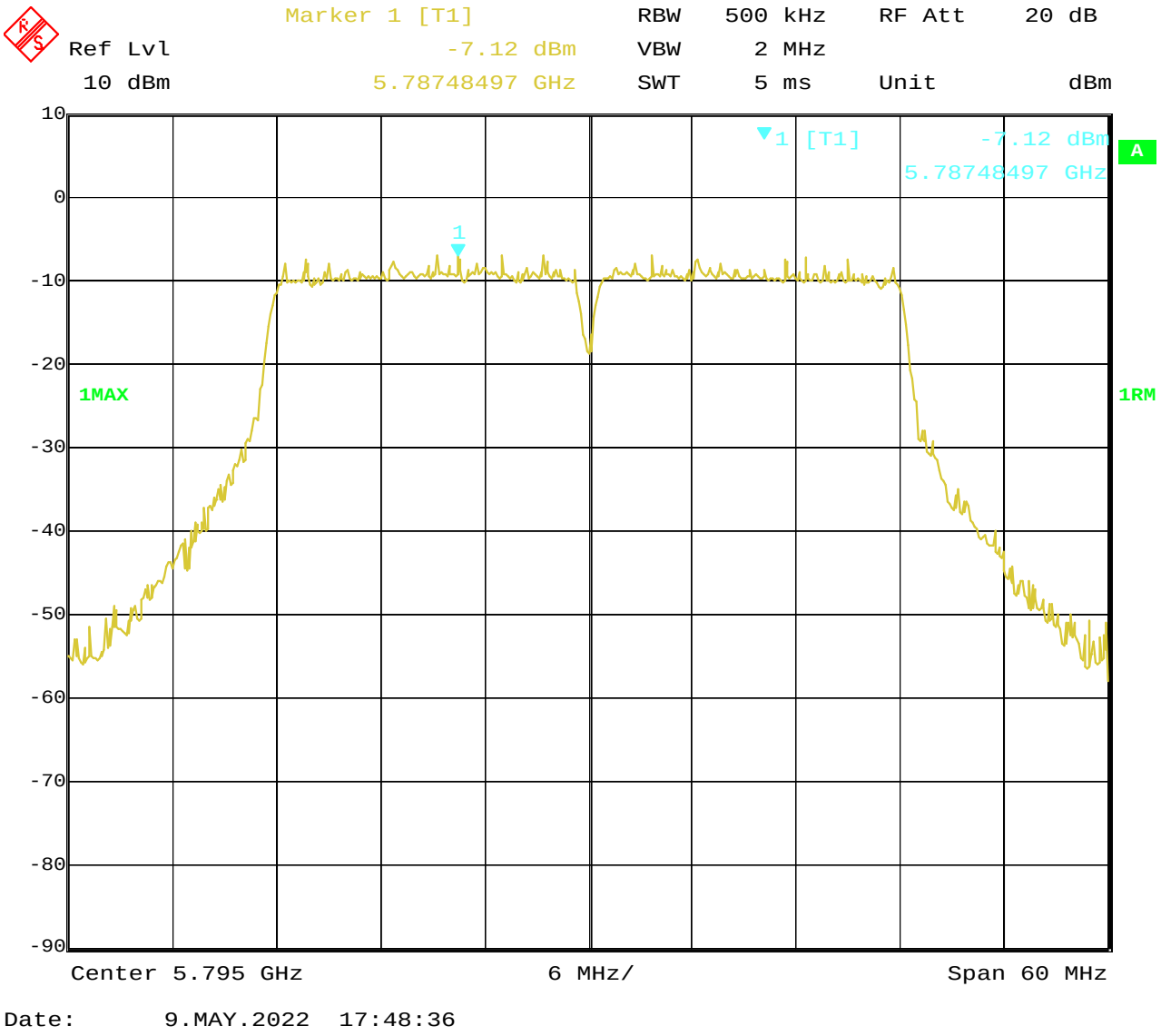
4.802.11ac at mcs0 of CH159



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EUT	Tablet PC	Model	K13
Mode	802.11ac VHT80	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
42	5210	-8.74	11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail
155	5775	-10.06	30	Pass

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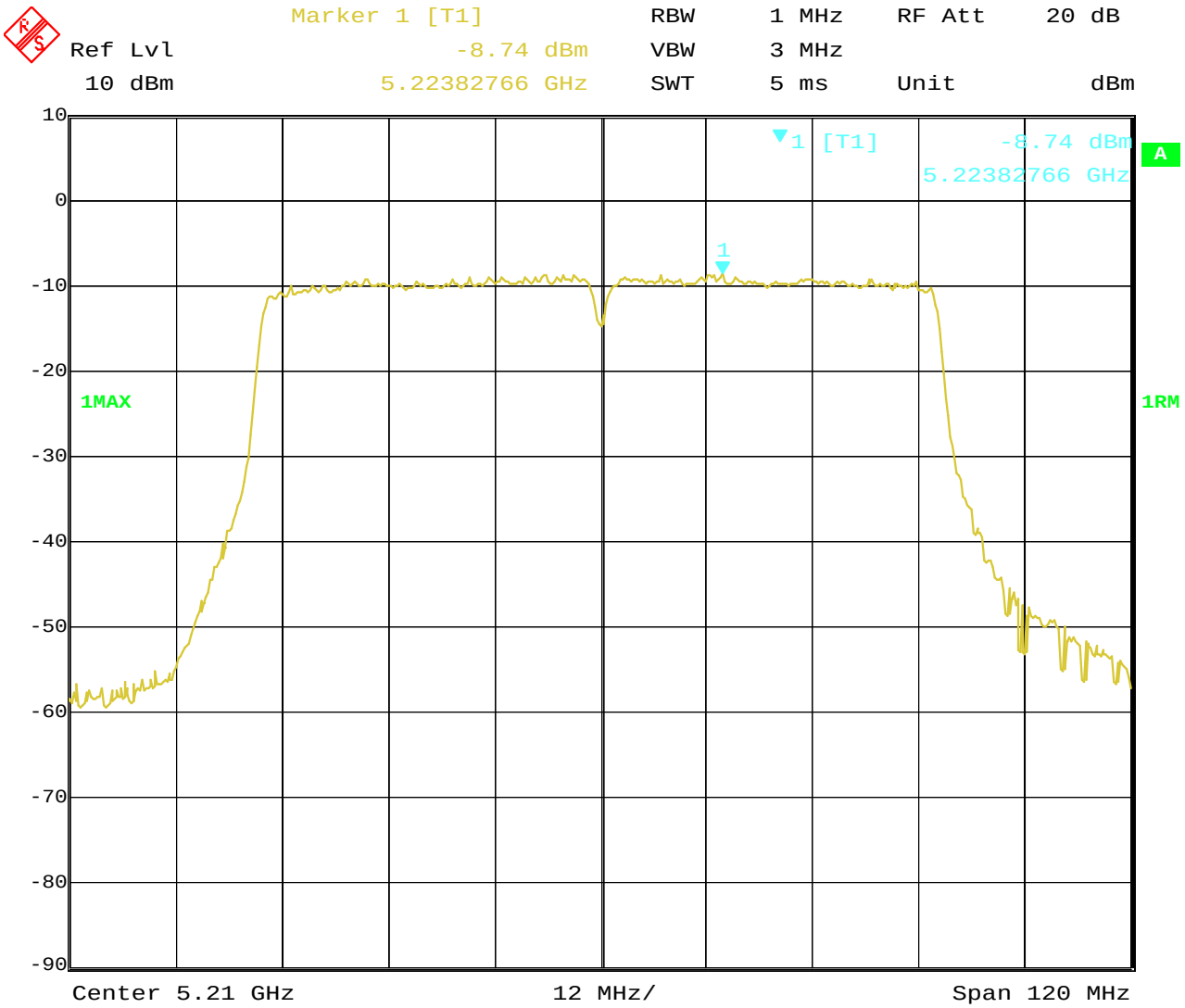
Test Plots

1.802.11ac at mcs0Mbps of CH42



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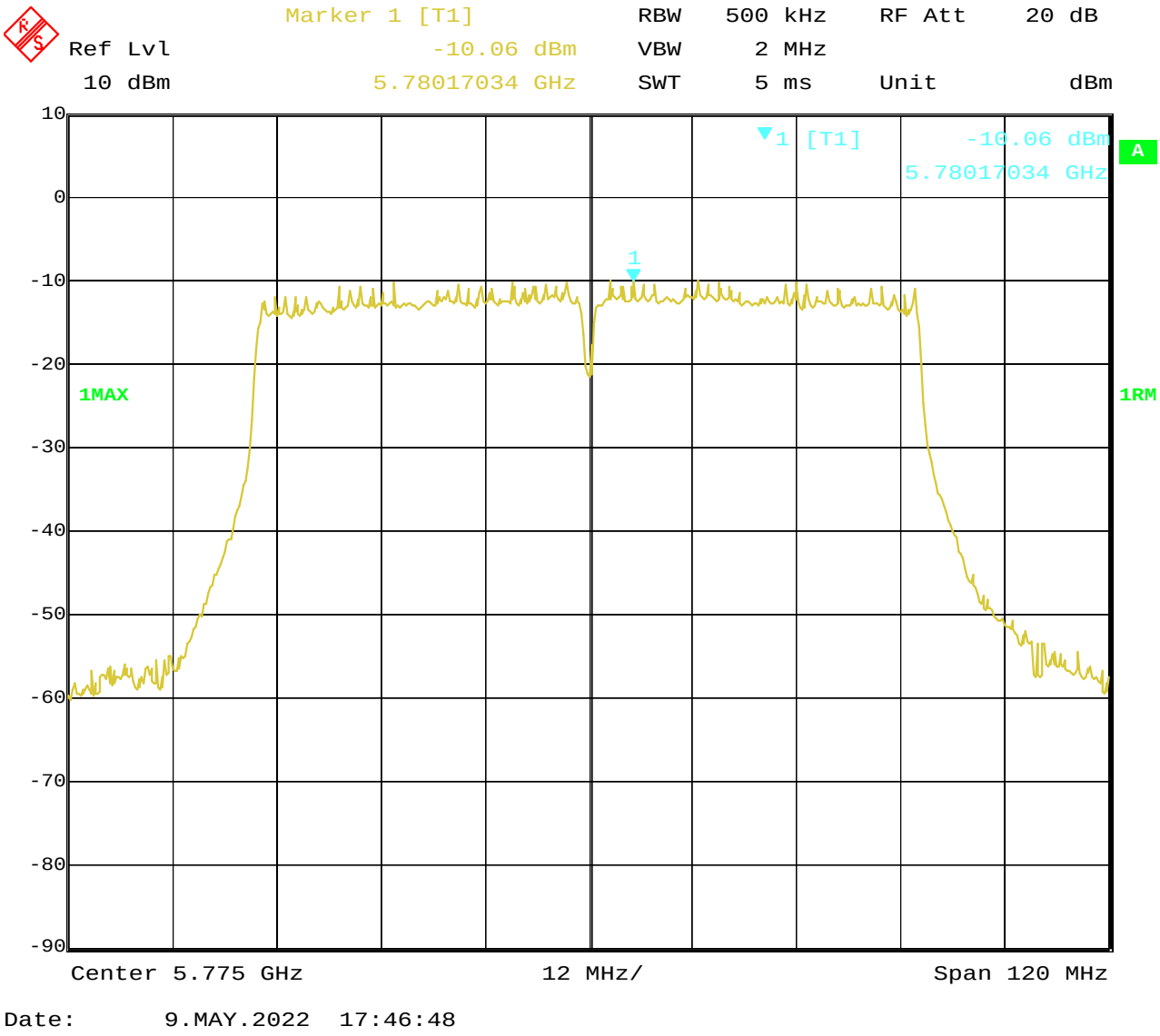
2.802.11ac at mcs0Mbps of CH155



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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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11.3 Test Result

Channel 36 (5180MHz)

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
3.7V	5180.0343
3.3V	5180.0329
4.2V	5180.0350
Max. Deviation (MHz)	0.0350
Max. Deviation (ppm)	6.76

Rated working voltage: DC3.7V

Temperature vs. Frequency Stability

Temperature（℃）	Measurement Frequency (MHz)
-30	5180.0352
-20	5180.0346
-10	5180.0367
0	5180.0329
10	5180.0338
20	5180.0322
30	5180.0341
40	5180.0356
50	5180.0361
Max. Deviation (MHz)	0.0367
Max. Deviation (ppm)	7.08

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Channel 149 (5745MHz)

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
3.7V	5745.0516
3.3V	5745.0533
4.2V	5745.0507
Max. Deviation (MHz)	0.0533
Max. Deviation (ppm)	9.28

Rated working voltage: DC3.7V

Temperature vs. Frequency Stability

Temperature（℃）	Measurement Frequency (MHz)
-30	5745.0489
-20	5745.0506
-10	5745.0513
0	5745.0477
10	5745.0523
20	5745.0512
30	5745.0495
40	5745.0511
50	5745.0526
Max. Deviation (MHz)	0.0526
Max. Deviation (ppm)	9.16

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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

Integral antennas used. The gain of the antennas is 2.0dBi maximum. (Declared by the applicant)

The report refers only to the sample tested and does not apply to the bulk.
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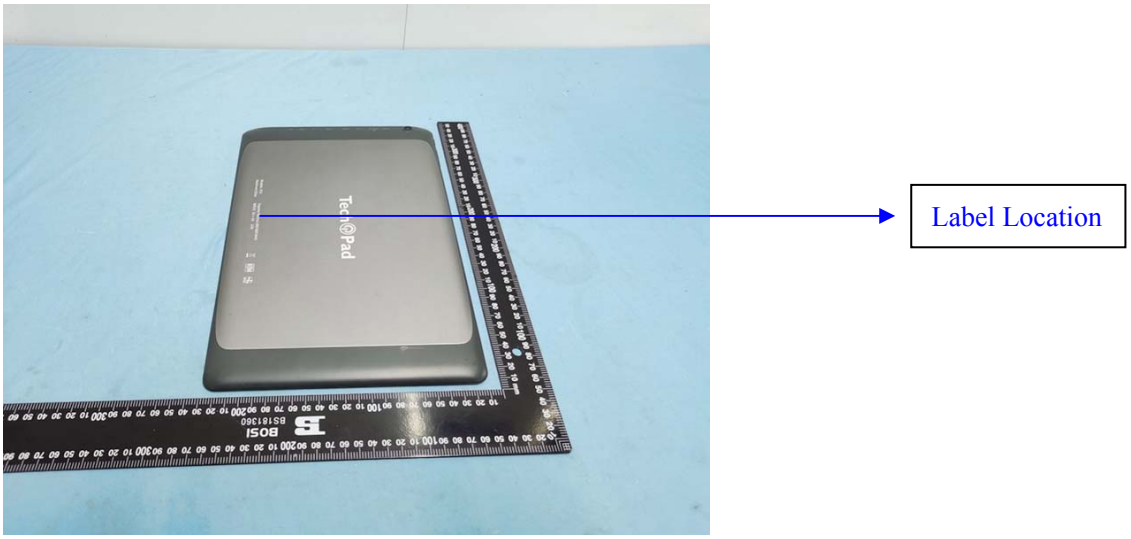
12.0 FCC ID Label

FCC ID: RBD-K13

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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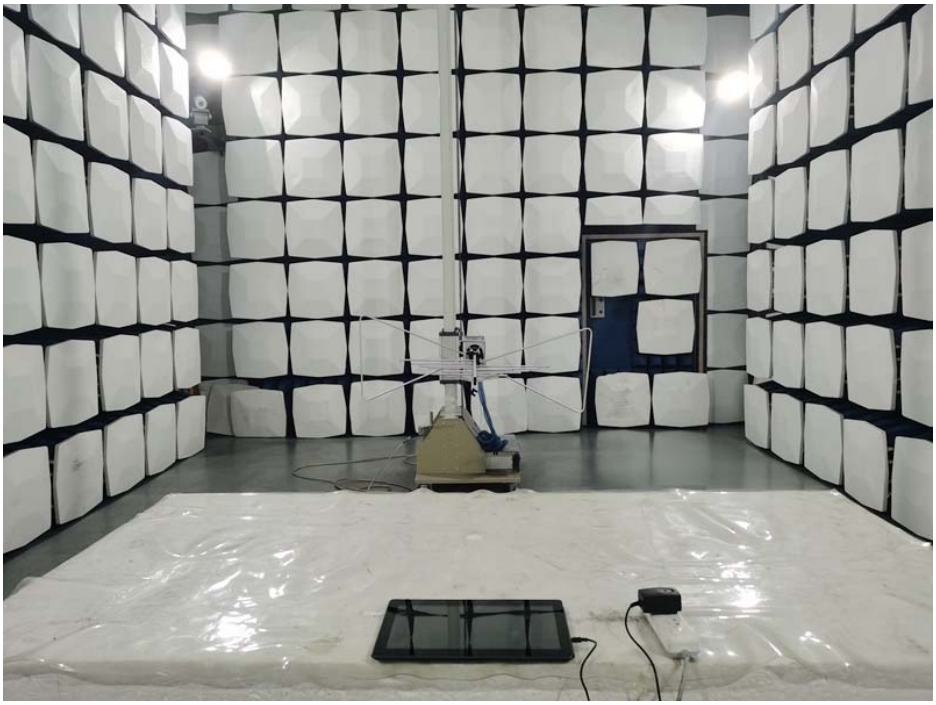
Radiated Emission Test Setup



Photos of EUT

Please see test report TW2203329-01E

--End of the report--

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