



Report No.:

TW2109319-04E

File Reference No.:

2021-11-02

Applicant:

Shenzhen Jingwah Information Technology Co., Ltd.

Product:

Portable Notebook

Model No.:

NP153GK-X, N15550

Trademark:

Packard bell

Test Standards:

FCC Part 15 Subpart E, Paragraph 15.407

Test Result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15 Subpart C, Paragraph 15.247 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Manager

Dated:

November 02, 2021

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-02
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: 0755-84688843
Fax: 0755-84688843

1.3 Description of EUT

Product: Portable Notebook
Manufacturer: Shenzhen Jingwah Information Technology Co., Ltd.
Address: 6F, Bldg.4, Jinghua Square, No. 168, Zhenzhong Rd., Fuqiang Community, Huaqiangbei, Futian District, Shenzhen
Trademark: Packard bell
Additional Trademark: N/A
Model Number: NP153GK-X
Additional Model Number: N15550
Hardware Version: G142RA
Software Version: Window 11 home S mode 21H2 22000.194
Serial No.: 155502111000001~155502111003000
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
Channel Separation 802.11a/802.11n20:20MHz, 802.11n40:40MHz, 802.11ac: 80MHz
Air Data Rate IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
IEEE 802.11n/HT20: mcs0-mcs7
IEEE 802.11n/HT40: mcs0-mcs7

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IEEE 802.11ac: NSSI mcs0-mcs9

Antenna: Two FPC antenna used. The gain of the antennas is 5.02dBi for each one (Get from the antenna specification provided the manufacturer)

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

Frequency Selection By software

Power Supply: Model: SAW30A-120-200J
Input: 100-240V~, 50/60Hz, 0.8A; Output: DC12V, 2000mA

Rating: DC12V, 2A

Battery: 7.6V, 5000mAh, 38Wh

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	5180 MHz	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	5180 MHz	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

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153	5765 MHz	159	5795 MHz		
165	5825 MHz				

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

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2021-09-30 to 2021-11-02

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

A handwritten signature in black ink that reads "Terry Tang". The signature is written in a cursive, flowing style.

The sample tested by _____

Print Name: Terry Tang

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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
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
TWO Line-V-NETW	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	2022-06-17
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	2021-01-15	2022-01-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/F A	--	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	2021-01-15	2022-01-14

2.2 Automation Test Software

For Conducted Emission Test

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

For Radiated Emissions

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

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.407	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart E Paragraph 15.407 (b)(1) and (b)(4)(i), Part 15.205 and Part 15.209	Undesirable Emission and Restrict band	Pass	Complies
FCC Part 15, Paragraph 15.407 (a)(1)(iv) and (a)(3)(iii)	Peak Transmit Power	Pass	Complies
FCC Part 15, Paragraph 15.407 (a)(1)(iv) and (a)(3)(iii)	Peak Power Spectral Density	Pass	Complies
FCC Part 15, Paragraph 15.407 (e)	Emission Bandwidth	Pass	Complies
FCC Part 15, Paragraph 15.407(g)	Frequency Stability	Pass	Complies

3.2 Test Standards

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

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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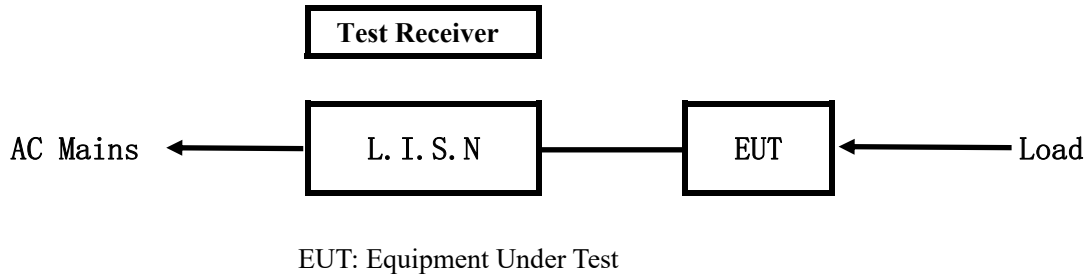
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

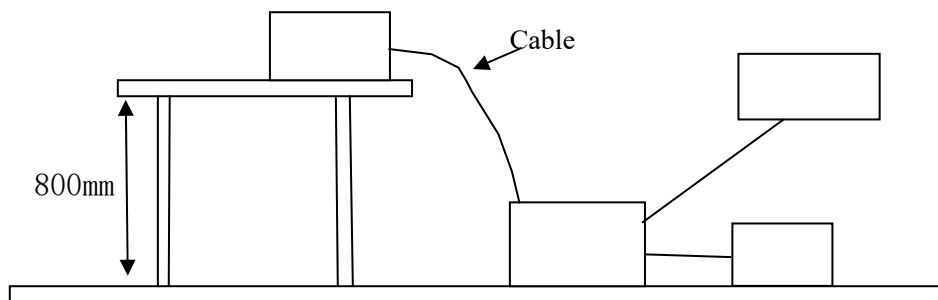


5.2 Test Method and test Procedure

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: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

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

A. EUT

Device	Manufacturer	Model	FCC ID
Portable Notebook	Shenzhen Jingwah Information Technology Co., Ltd.	NP153GK-X, N15550	RBD-NP153GK

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

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-pea	Level	Average Level
0.15 ~ 0.50	66.0	50*	56.0~46.0*
0.50 ~ 5.00	56.0		46.0
5.00 ~ 30.00	60.0		50.0

- Notes:
1. *Decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

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

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

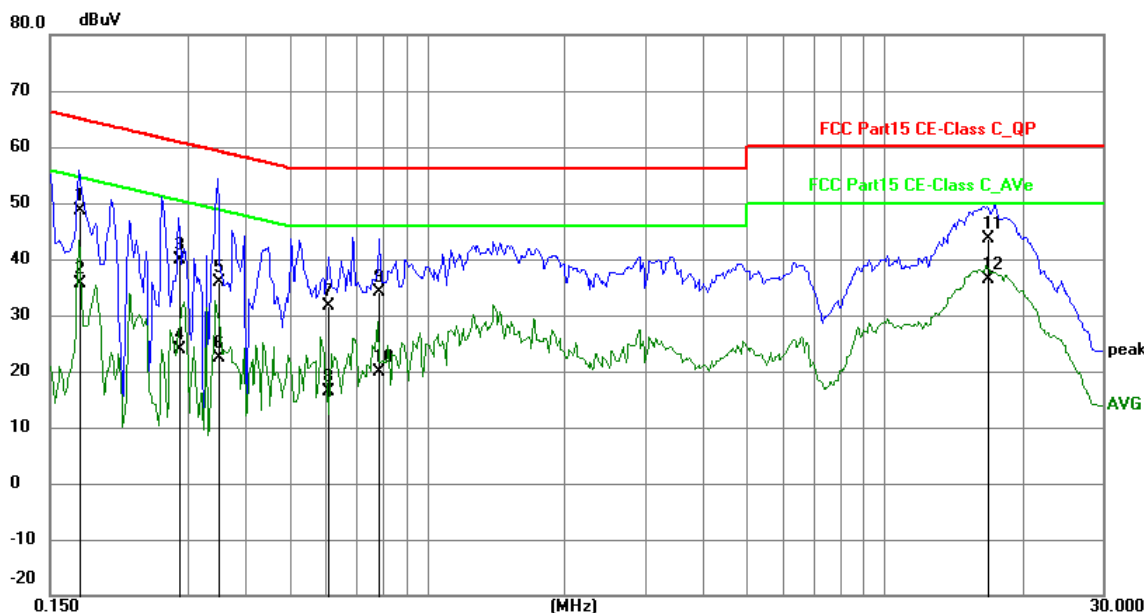
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keeping WIFI Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	38.82	9.77	48.59	64.80	-16.21	QP	P
2	0.1734	25.81	9.77	35.58	54.80	-19.22	AVG	P
3	0.2878	30.11	9.76	39.87	60.59	-20.72	QP	P
4	0.2878	14.19	9.76	23.95	50.59	-26.64	AVG	P
5	0.3489	26.24	9.76	36.00	58.99	-22.99	QP	P
6	0.3489	12.64	9.76	22.40	48.99	-26.59	AVG	P
7	0.6102	21.74	9.78	31.52	56.00	-24.48	QP	P
8	0.6102	6.52	9.78	16.30	46.00	-29.70	AVG	P
9	0.7857	24.23	9.78	34.01	56.00	-21.99	QP	P
10	0.7857	10.10	9.78	19.88	46.00	-26.12	AVG	P
11	16.7670	33.16	10.49	43.65	60.00	-16.35	QP	P
12	16.7670	25.94	10.49	36.43	50.00	-13.57	AVG	P

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

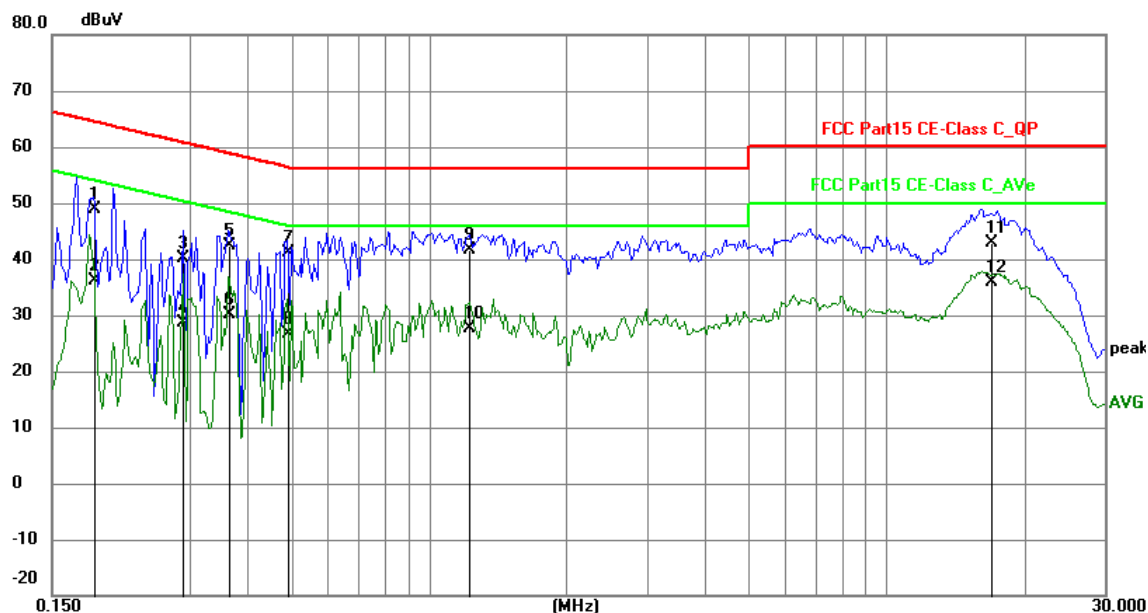
EUT Operating Environment

Temperature: 26°C 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	0.1850	39.12	9.76	48.88	64.26	-15.38	QP	P
2	0.1850	26.39	9.76	36.15	54.26	-18.11	AVG	P
3	0.2904	30.34	9.76	40.10	60.51	-20.41	QP	P
4	0.2904	18.98	9.76	28.74	50.51	-21.77	AVG	P
5	0.3645	32.63	9.76	42.39	58.63	-16.24	QP	P
6	0.3645	20.37	9.76	30.13	48.63	-18.50	AVG	P
7	0.4893	31.40	9.77	41.17	56.18	-15.01	QP	P
8	0.4893	16.75	9.77	26.52	46.18	-19.66	AVG	P
9	1.2264	31.74	9.79	41.53	56.00	-14.47	QP	P
10	1.2264	17.94	9.79	27.73	46.00	-18.27	AVG	P
11	16.9464	32.26	10.50	42.76	60.00	-17.24	QP	P
12	16.9464	25.27	10.50	35.77	50.00	-14.23	AVG	P

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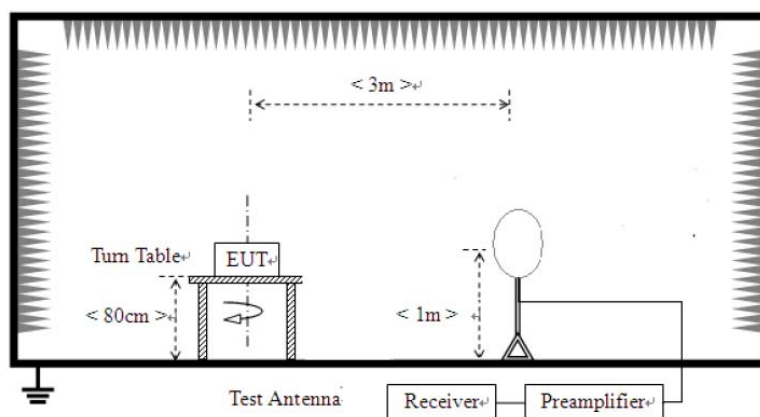
6 Undesirable Emission and Restrict band

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 40 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz, VBW=3MHz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



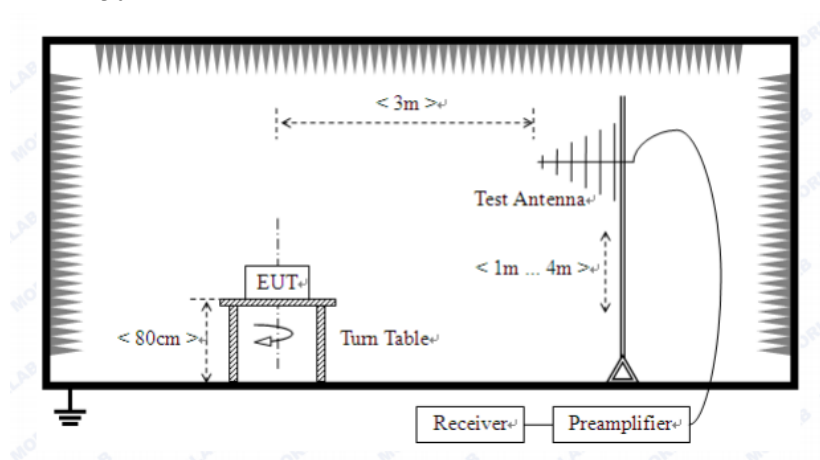
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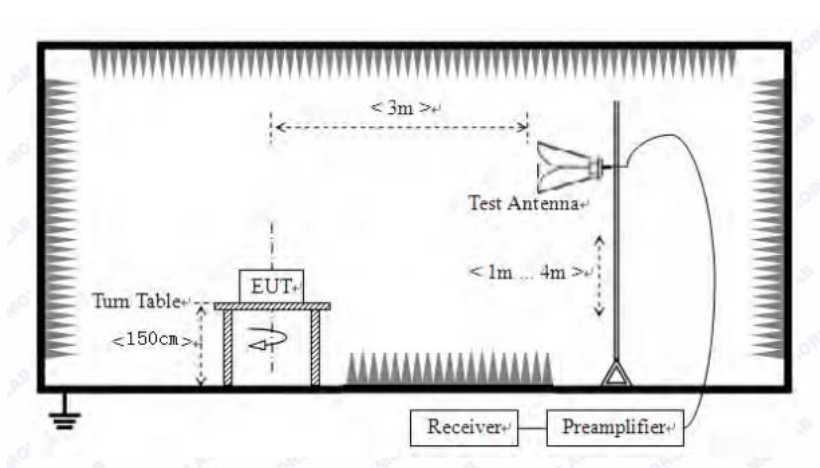
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For radiated emissions from 30MHz to 1GHz



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 (μ V)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Keeping WIFI Transmitting

Results: Pass

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

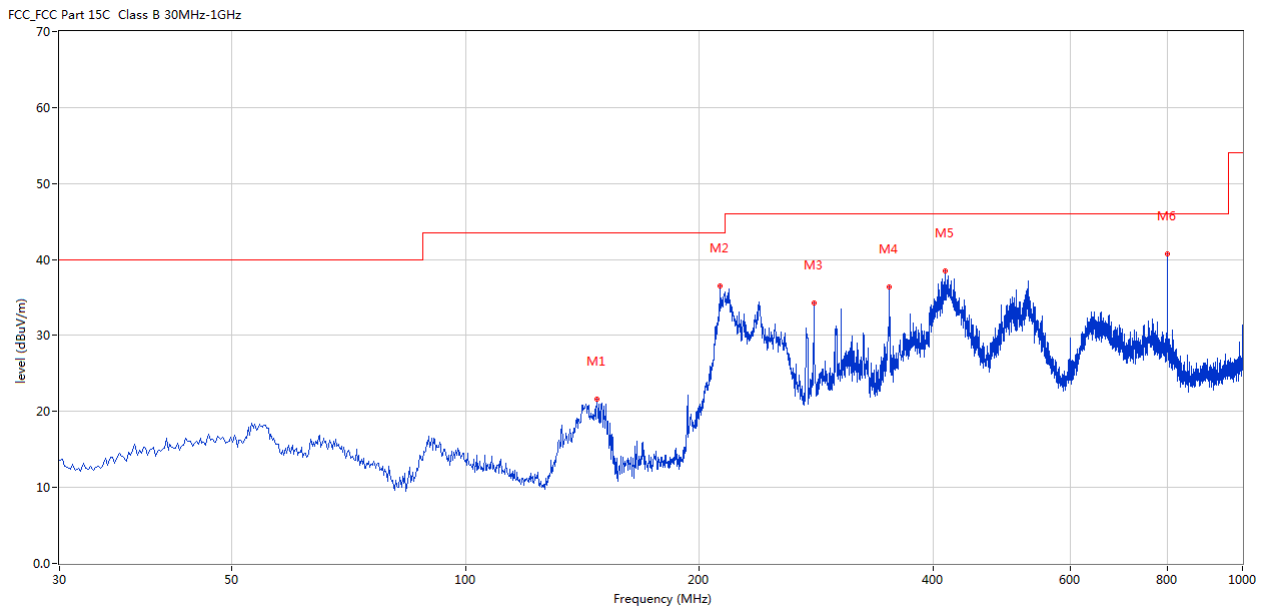
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Test Figure:

H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	147.583	21.57	-17.20	43.5	-21.93	Peak	196.00	200	Horizontal	Pass
2	212.314	36.57	-13.67	43.5	-6.93	Peak	33.00	100	Horizontal	Pass
3	280.925	34.28	-11.50	46.0	-11.72	Peak	258.00	100	Horizontal	Pass
4	350.990	36.33	-9.36	46.0	-9.67	Peak	270.00	100	Horizontal	Pass
5	414.266	38.47	-8.24	46.0	-7.53	Peak	199.00	100	Horizontal	Pass
6	799.988	40.79	-2.96	46.0	-5.21	Peak	137.00	200	Horizontal	Pass

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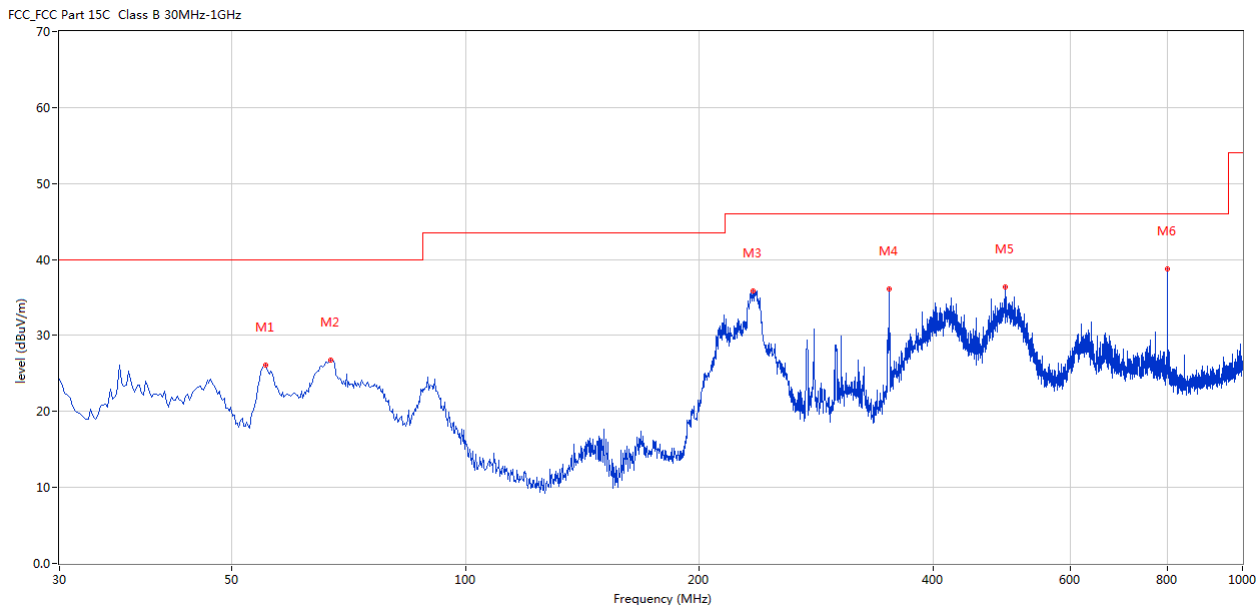
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Test Figure:

V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	55.214	26.08	-11.83	40.0	-13.92	Peak	334.00	100	Vertical	Pass
2	67.093	26.81	-14.32	40.0	-13.19	Peak	271.00	100	Vertical	Pass
3	234.376	35.91	-12.53	46.0	-10.09	Peak	316.00	100	Vertical	Pass
4	351.232	36.07	-9.38	46.0	-9.93	Peak	0.00	200	Vertical	Pass
5	495.726	36.36	-7.13	46.0	-9.64	Peak	0.00	200	Vertical	Pass
6	799.988	38.75	-2.96	46.0	-7.25	Peak	0.00	200	Vertical	Pass

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

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5180.00	95.43 (PK)	H	Fundamental Frequency
5180.00	93.10 (PK)	V	
10360	56.10 (PK)/ 48.89 (AV)	H	74(Peak)/ 54(AV)
10360	50.57 (PK)	V	74(Peak)/ 54(AV)
15540	--	V	74(Peak)/ 54(AV)
20720	--	H/V	74(Peak)/ 54(AV)
25900	--	H/V	74(Peak)/ 54(AV)
31080	--	H/V	74(Peak)/ 54(AV)
36260	--	H/V	74(Peak)/ 54(AV)

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

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

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5200.00	98.18 (PK)	H	Fundamental Frequency
5200.00	95.92 (PK)	V	
10400	59.69 (PK) / 48.35 (AV)	H	74(Peak)/ 54(AV)
10400	56.52 (PK) / 49.85 (AV)	V	74(Peak)/ 54(AV)
15600	--	H/V	74(Peak)/ 54(AV)
20800	--	H/V	74(Peak)/ 54(AV)
26000	--	H/V	74(Peak)/ 54(AV)
31200	--	H/V	74(Peak)/ 54(AV)
36400	--	H/V	74(Peak)/ 54(AV)

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

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

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5240.00	99.15 (PK)	H	Fundamental Frequency
5240.00	93.44 (PK)	V	
10480	59.83 (PK) / 48.25 (AV)	H	74(Peak)/ 54(AV)
15720	53.69 (PK) / 47.67 (AV)	V	74(Peak)/ 54(AV)
20960	--	H/V	74(Peak)/ 54(AV)
26200	--	H/V	74(Peak)/ 54(AV)
31440	--	H/V	74(Peak)/ 54(AV)
36680	--	H/V	74(Peak)/ 54(AV)

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

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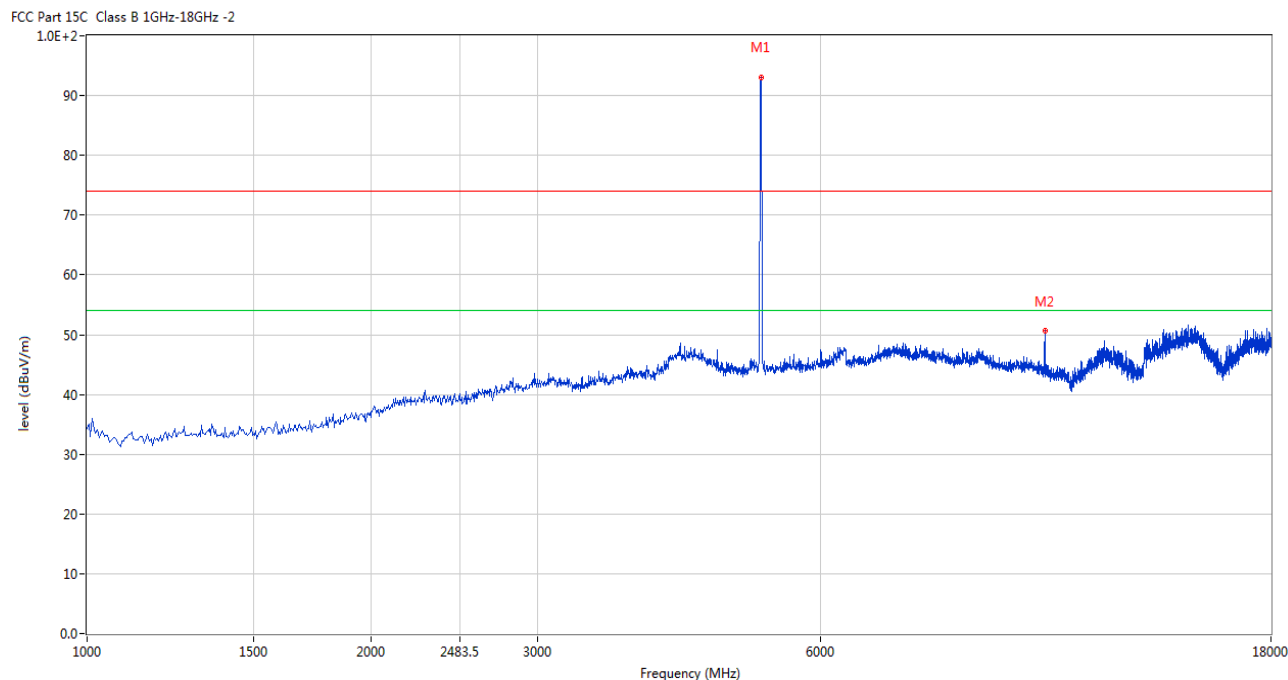
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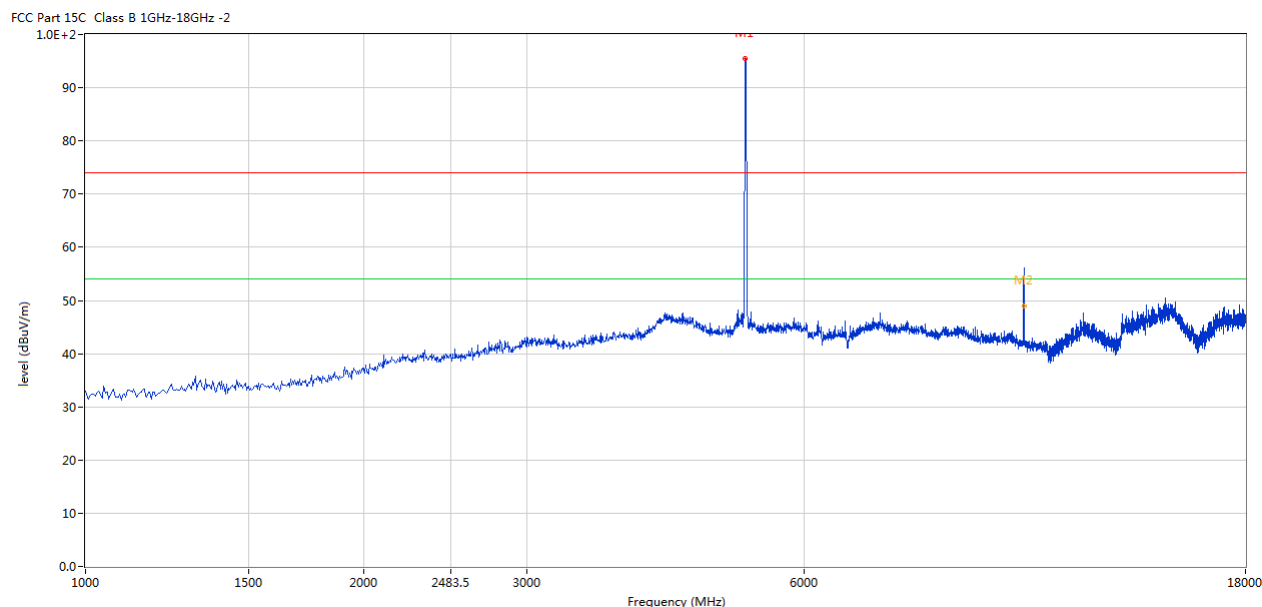


Please refer to the following test plots for details:

CH36 for 11a at 6Mbps: Vertical



CH36 for 11a at 6Mbps: Horizontal



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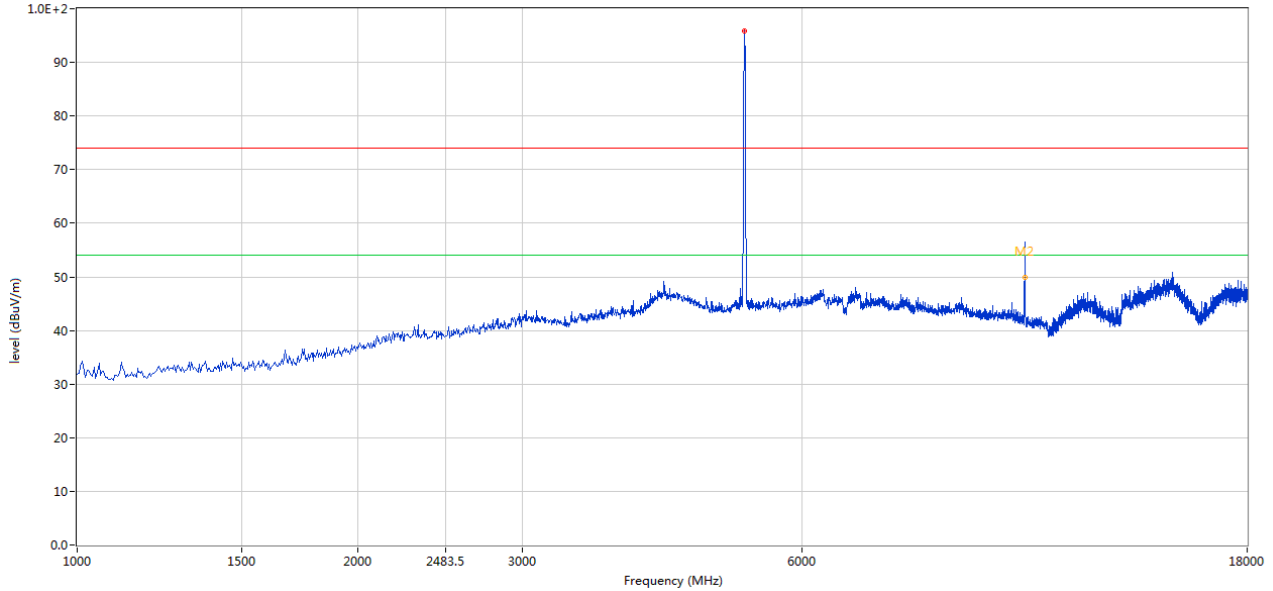
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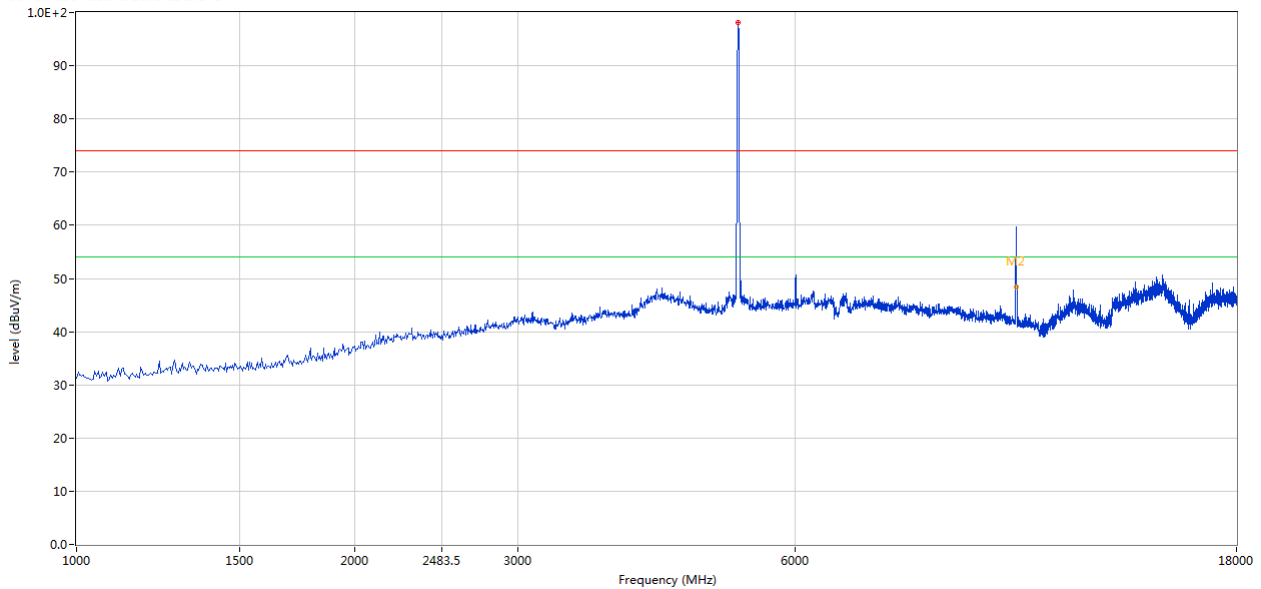
CH40 for 11a at 6Mbps: Vertical

FCC Part 15C Class B 1GHz-18GHz -2



CH40 for 11a at 6Mbps: Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



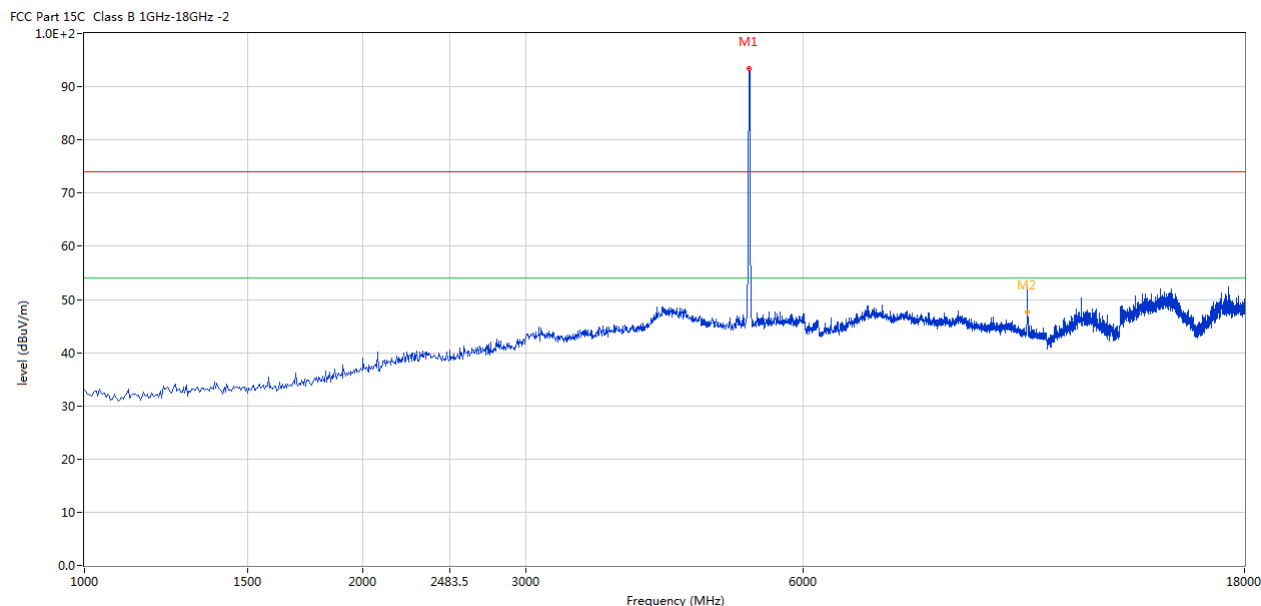
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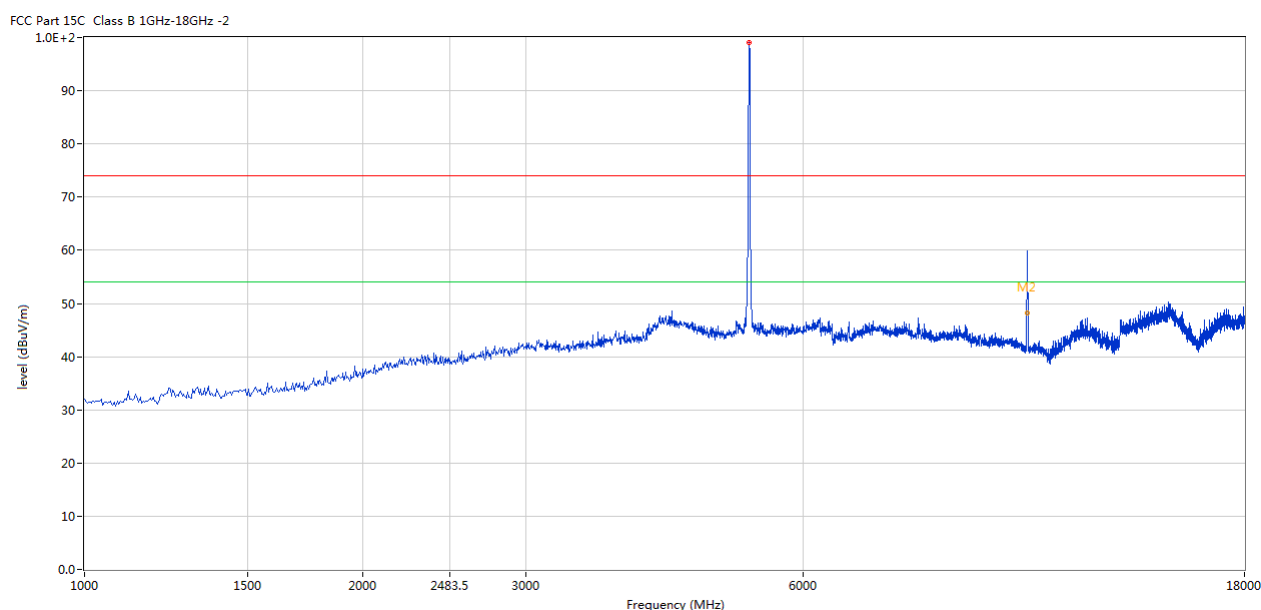
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CH48 for 11a at 6Mbps: Vertical



CH48 for 11g at 6Mbps: Horizontal



- Note: 1. For radiated Emissions from 18-40GHz and below 30MHz, it is only the floor noise.
2. 802.11a is the worst case.

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Restricted band Measurement			
EUT	Portable Notebook		Test Mode:
Mode	Keeping Transmitting		Channel 36 (5180MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5150	PK (dBμV/m)	50.72 (PK)	56% RH
	EIRP (dBm)	-44.48	Detector
Polarity	Horizontal		PK
			Limit
			-27dBm/MHz
			--
			--

Remark: 1. According to KDB 789033 v01r03 section H) d) (iii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 50.72 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 50.72 - 95.2 = -44.48\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Portable Notebook		Test Mode:
Mode	Keeping Transmitting		Channel 36 (5180MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5150	PK (dBμV/m)	44.85 (PK)	56% RH
	EIRP (dBm)	-50.35	Detector
Polarity	Vertical		PK
			Limit
			-27dBm/MHz
			--
			--
Test Figure			

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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 44.85 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 44.85 - 95.2 = -50.35\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	Portable Notebook		Test Mode:
Mode	Keeping Transmitting		Channel 48 (5240MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5250	PK (dBμV/m)	59.62 (PK)	56% RH
	EIRP (dBm)	-35.58	Detector
Polarity	Horizontal		PK
		Limit	-27dBm/MHz

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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 59.62 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 59.62 - 95.2 = -35.58 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Portable Notebook		Test Mode:
Mode	Keeping Transmitting		Channel 48 (5240MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5250	PK (dBμV/m)	55.73 (PK)	56% RH
	EIRP (dBm)	-39.47	Detector
Polarity	Vertical		PK
		Limit	-27dBm/MHz
		--	--

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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 55.73 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 55.73 - 95.2 = -39.47 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	48.96 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-46.24		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 48.96\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 48.96 - 95.2 = -46.24\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	43.36 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-51.84		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 43.36\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 43.36 - 95.2 = -51.84\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	56.69(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-38.51		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 56.69 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 56.69 - 95.2 = -38.51 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	50.18(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-45.02		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 50.18 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 50.18 - 95.2 = -45.02 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	52.20 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-43.00		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 52.20 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 52.20 - 95.2 = -43.00 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	48.77 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-46.43		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 48.77 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 48.77 - 95.2 = -46.43 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	57.18(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-38.02		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 57.18\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 57.18 - 95.2 = -38.02\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	54.31(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-40.89		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 54.31\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 54.31 - 95.2 = -40.89\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 36 (5180MHz)-11ac/VHT20
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	49.51 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-45.69		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 49.51\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 49.51 - 95.2 = -45.69\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 36 (5180MHz)-11ac/VHT20
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	44.72 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-50.48		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 44.72\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 44.72 - 95.2 = -50.48\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 48 (5240MHz)-11ac/VHT20
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	52.88 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-42.32		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 52.88 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 52.88 - 95.2 = -42.32 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 48 (5240MHz)-11ac/VHT20
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	49.85(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-45.35		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 49.85 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 49.85 - 95.2 = -45.35 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 38 (5190MHz)-11ac/VHT40
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	53.20 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-42.00		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 53.20 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.20 - 95.2 = -42.00 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 38 (5190MHz)-11ac/VHT40
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	50.21 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-44.99		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 50.21 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 50.21 - 95.2 = -44.99 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 46 (5230MHz)-11ac/VHT40
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	57.68(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-37.52		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 57.68\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 57.68 - 95.2 = -37.52\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 46 (5230MHz)-11ac/VHT40
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	54.17(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-41.03		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 54.17\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 54.17 - 95.2 = -41.03\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	Portable Notebook		Test Mode: Channel 42 (5210MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage DC7.6V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5150	PK (dBμV/m)	57.78 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-37.42	
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 57.78 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 57.78 - 95.2 = -37.42 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Portable Notebook		Test Mode: Channel 42 (5210MHz)- 11ac/VHT80
Mode	Keeping Transmitting		Input Voltage DC7.6V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5150	PK (dBμV/m)	53.12 (PK)	Limit -27dBm/MHz
	EIRP (dBm)	-42.08	
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 53.12 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.12 - 95.2 = -42.08 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	Portable Notebook		Test Mode:
Mode	Keeping Transmitting		Channel 149 (5745MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5725	PK (dBμV/m)	53.86 (PK)	56% RH
	EIRP (dBm)	-41.34	Detector
Polarity	Horizontal		PK
			Limit
			-17dBm/MHz
			--
			--

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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 53.86 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.86 - 95.2 = -41.34 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Portable Notebook		Test Mode:
Mode	Keeping Transmitting		Channel 149 (5745MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5725	PK (dBμV/m)	52.72 (PK)	56% RH
	EIRP (dBm)	-42.48	Detector
Polarity	Vertical		PK
			Limit
			-17dBm/MHz
			--
			--

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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 52.72 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 52.72 - 95.2 = -42.48 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	Portable Notebook		Test Mode:
Mode	Keeping Transmitting		Channel 165 (5825MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5850	PK (dBμV/m)	52.62 (PK)	56% RH
	EIRP (dBm)	-42.58	Detector
Polarity	Horizontal		PK
			Limit
			-17dBm/MHz
		--	--

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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 52.62 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 52.62 - 95.2 = -42.58 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Portable Notebook		Test Mode:
Mode	Keeping Transmitting		Channel 165 (5825MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5850	PK (dBμV/m)	50.13 (PK)	56% RH
	EIRP (dBm)	-45.07	Detector
Polarity	Vertical		PK
			Limit
			-17dBm/MHz
		--	--

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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 50.13 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 50.13 - 95.2 = -45.07 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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

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Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 149 (5745MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	53.94 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-41.26		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 53.94 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.94 - 95.2 = -41.26 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 149 (5745MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	50.57 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-44.63		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 50.57 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 50.57 - 95.2 = -44.63 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 165 (5825MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	54.91 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-40.29		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 54.91 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 54.91 - 95.2 = -40.29 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 165 (5825MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	51.63 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-43.57		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 51.63 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 51.63 - 95.2 = -43.57 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 151 (5755MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	53.56 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-47.64		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 53.56 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.56 - 95.2 = -41.64 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 151 (5755MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	51.15 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-44.05		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 51.15 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 51.15 - 95.2 = -44.05 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 159 (5795MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	53.32 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-41.88		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 53.32 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.32 - 95.2 = -41.88 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 159 (5795MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	51.83 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-43.37		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 51.83 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 51.83 - 95.2 = -43.37 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 155 (5775MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	55.71 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-39.49		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 55.71 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 55.71 - 95.2 = -39.49 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Portable Notebook		Test Mode:	Channel 157 (5775MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	DC7.6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5850	PK (dBμV/m)	52.30 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-42.9		
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:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 53.30 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.30 - 95.2 = -42.9 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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

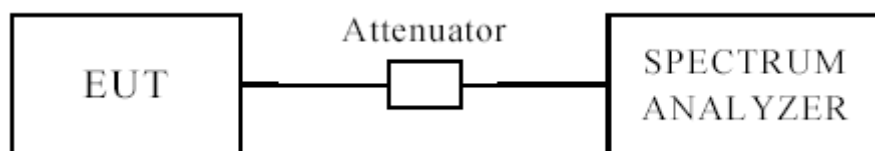
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7.0 Emission Bandwidth

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 $VBW \geq 3 \times RBW$.
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 $VBW \geq 3 \times RBW$
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

Note: Two antennas were tested and only the worst case was recorded in the test report. The Main antenna was the worst case.

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7.6 Test Result

EUT	Portable Notebook		Model	NP153GK-X	
Mode	802.11a		Input Voltage	DC7.6V	
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	22.67	--	Pass
40	5200	6	25.61	--	Pass
48	5240	6	24.23	--	Pass
99% Bandwidth					
36	5180	6	16.89	--	Pass
40	5200	6	16.95	--	Pass
48	5240	6	16.89	--	Pass

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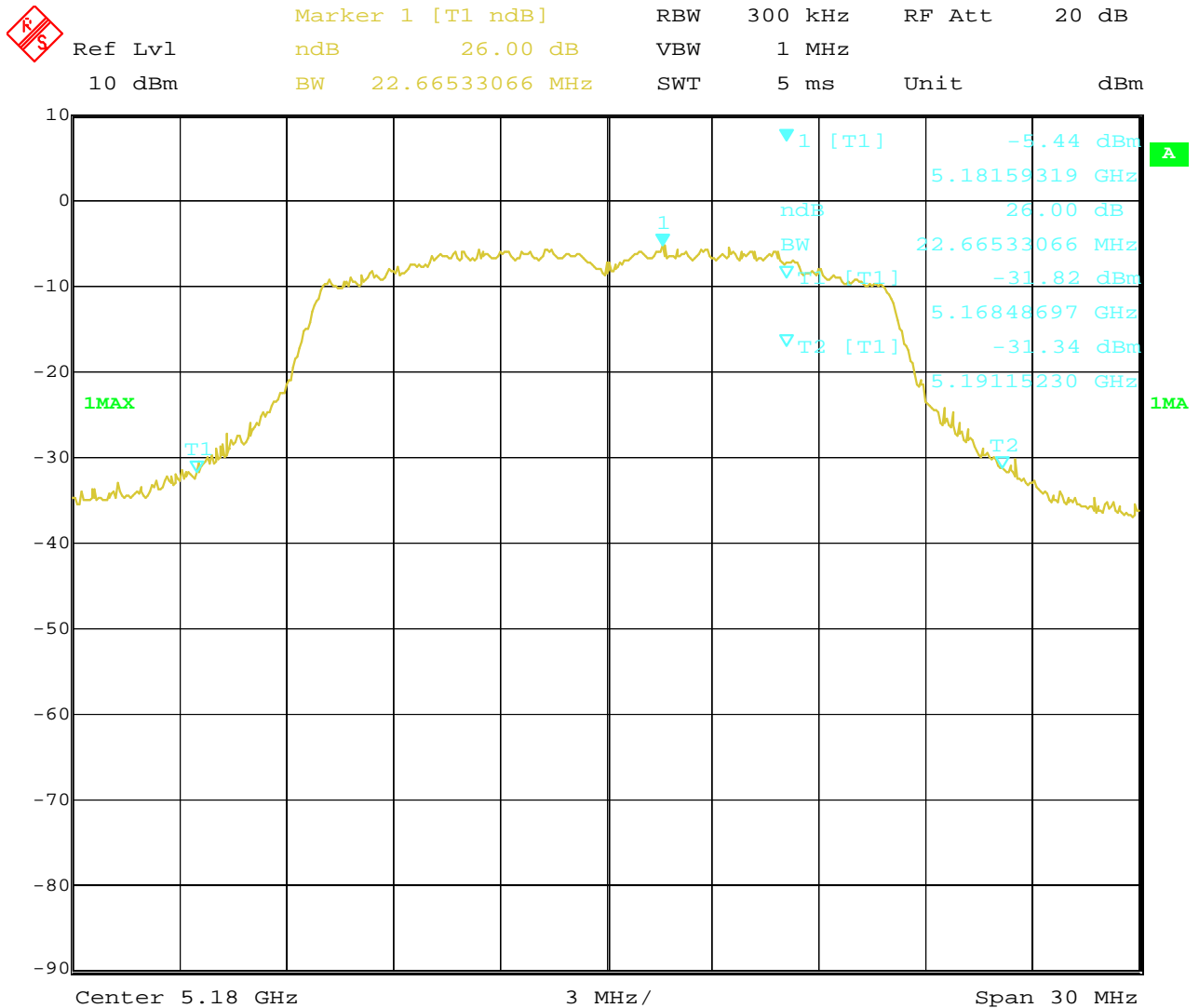
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Test Figure:

26dB Bandwidth

Channel 36



Date: 15.OCT.2021 13:03:58

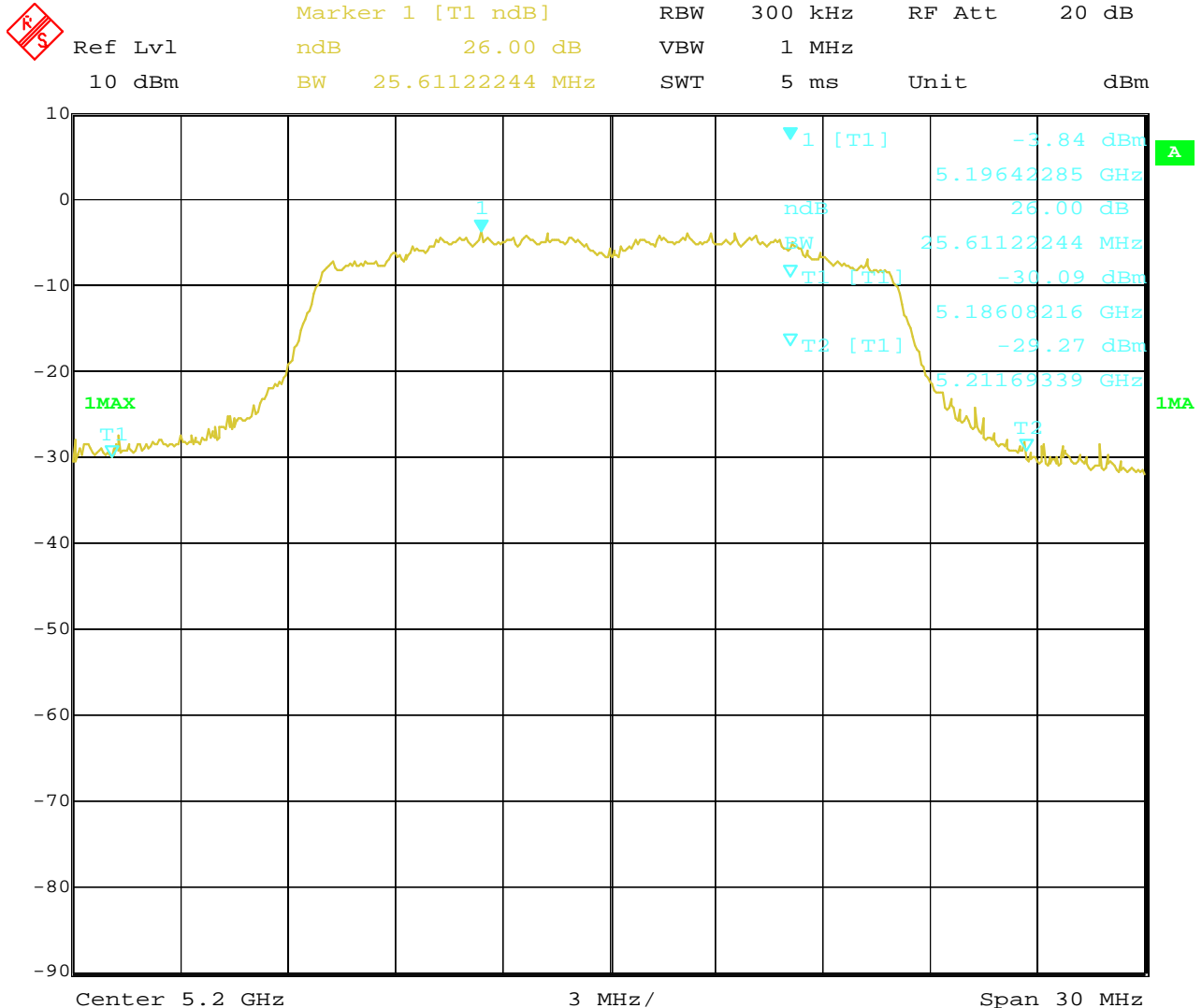
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Channel 40

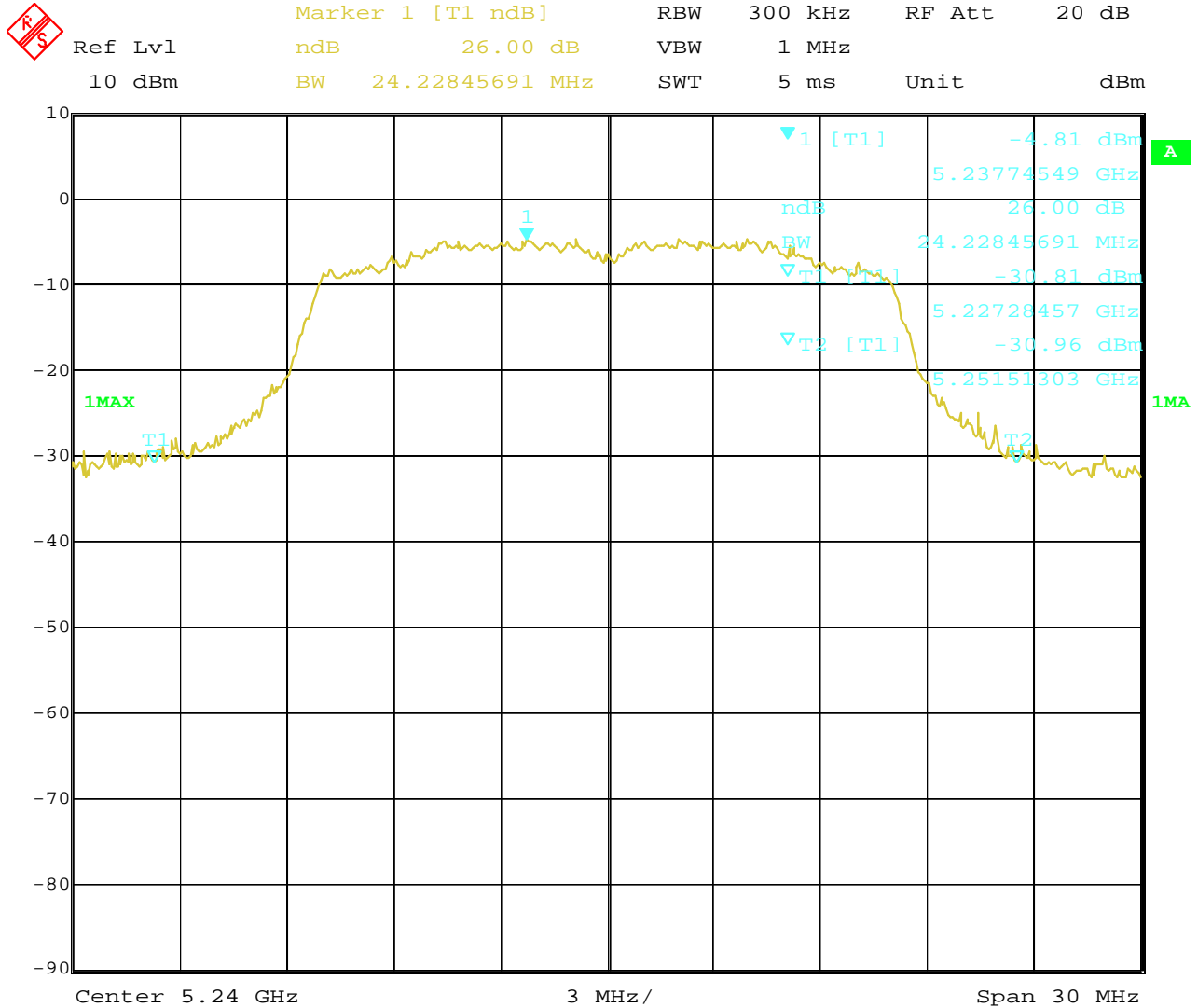


Date: 15.OCT.2021 13:07:03

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Channel 48



Date: 15.OCT.2021 13:09:02

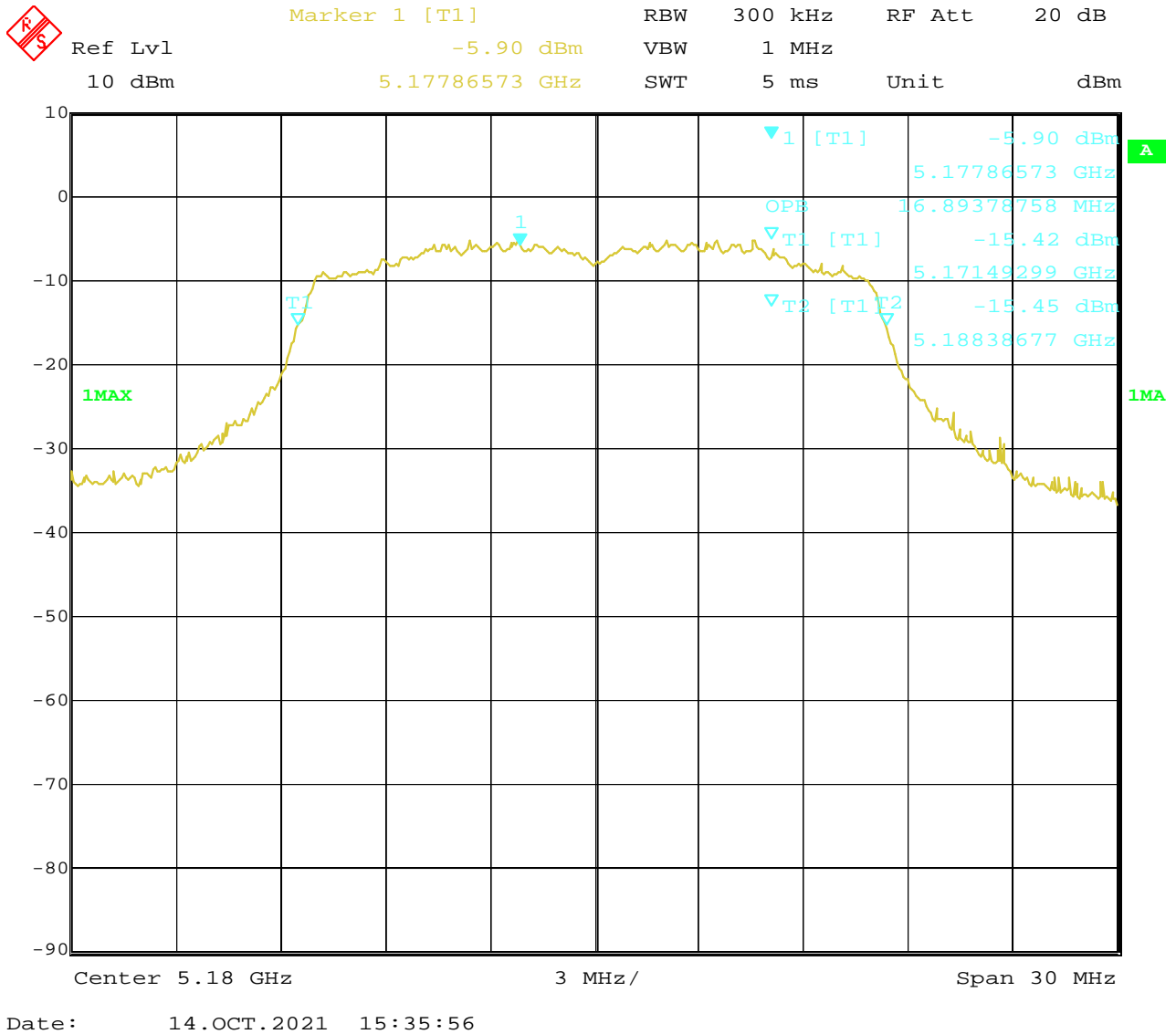
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Test Figure:

99% Bandwidth

Channel 36



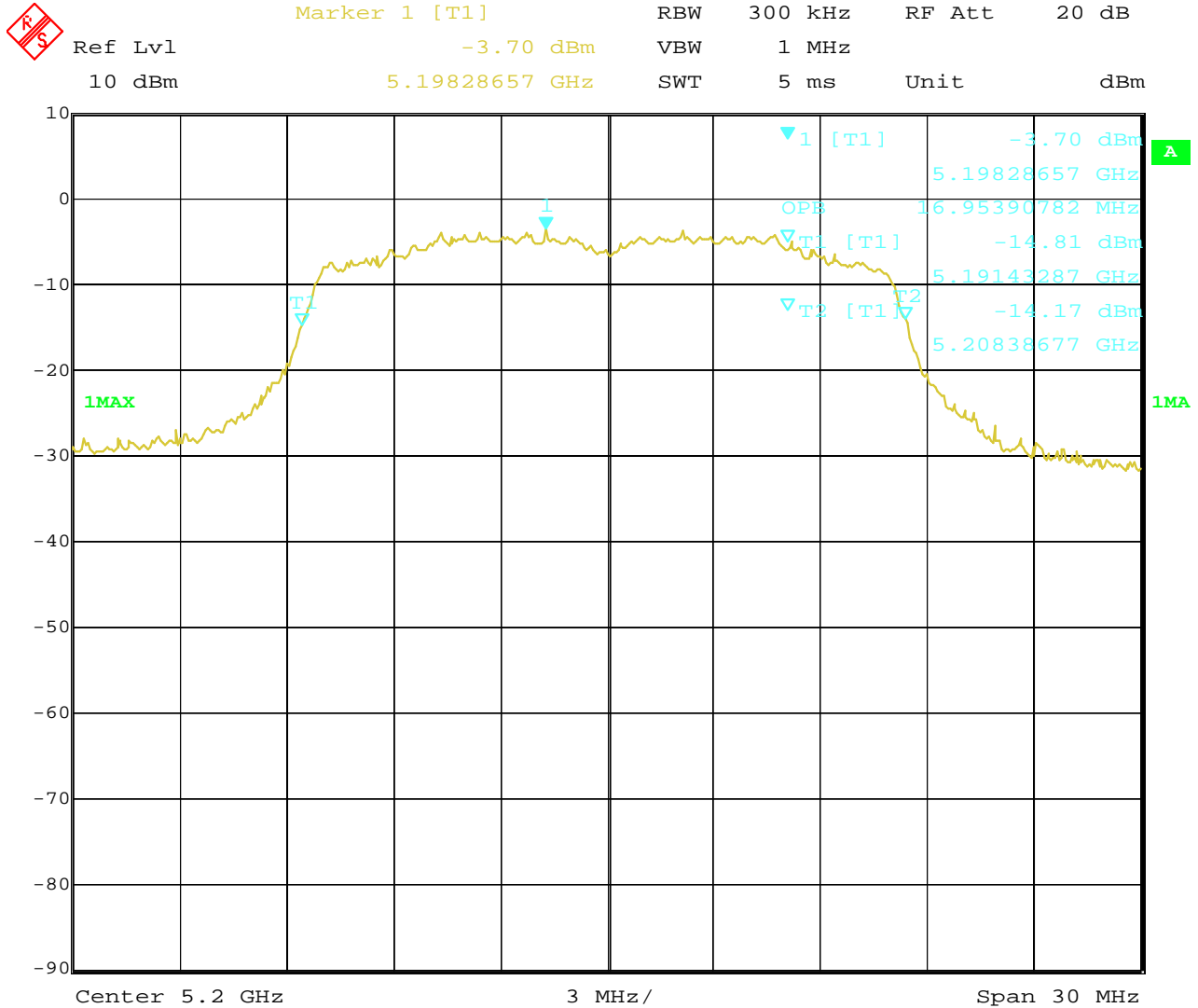
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Channel 40



Date: 14.OCT.2021 15:56:04

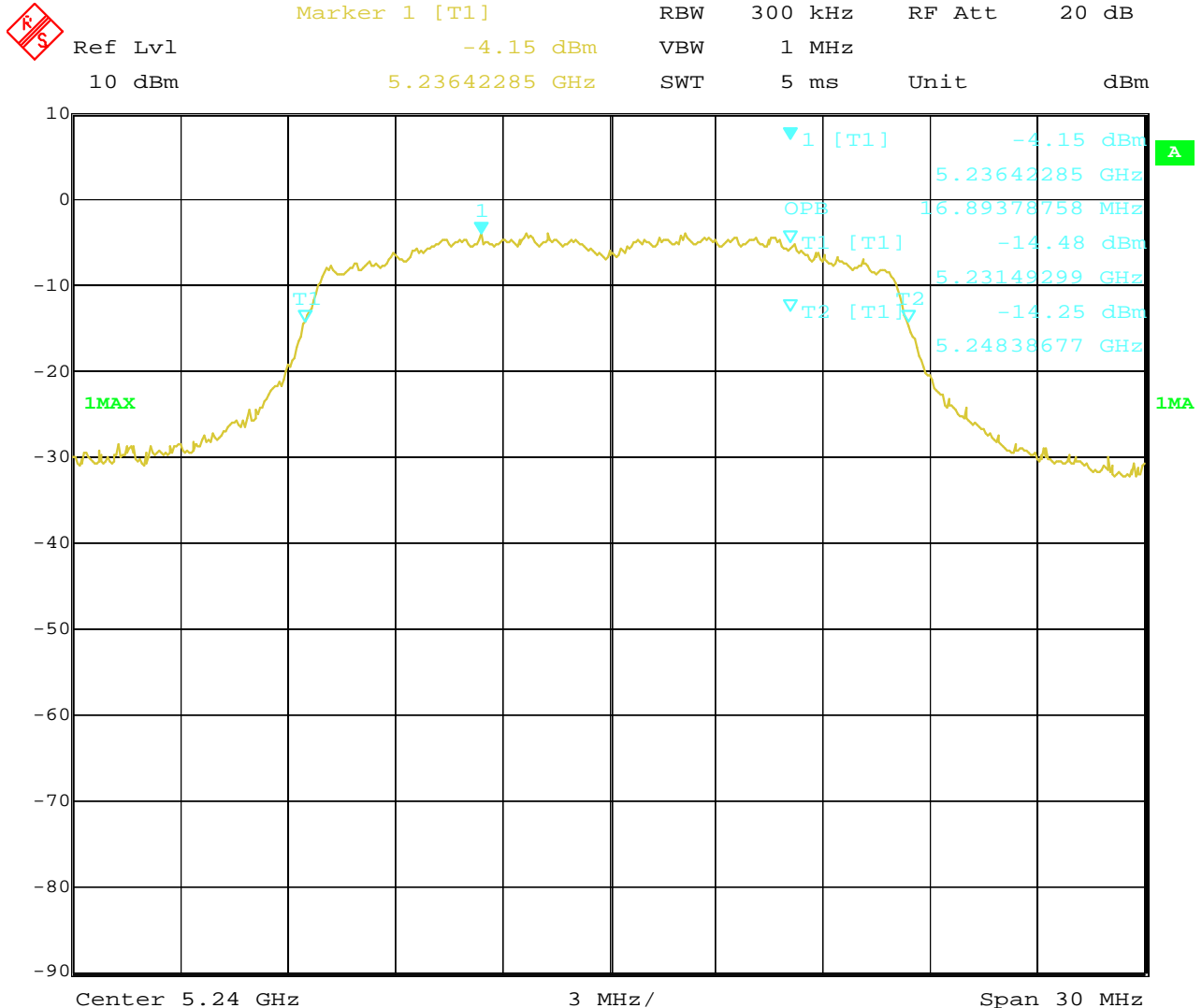
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Channel 48



Date: 14.OCT.2021 16:20:08

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EUT		Portable Notebook		Model	NP153GK-X
Mode		802.11a		Input Voltage	DC7.6V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
149	5745	6	22.30	--	Pass
153	5765	6	22.97	--	Pass
165	5825	6	24.59	--	Pass
6dB Bandwidth					
149	5745	6	15.72	0.5	Pass
153	5765	6	15.86	0.5	Pass
165	5825	6	16.04	0.5	Pass
99% Bandwidth					
149	5745	6	16.83	--	Pass
153	5765	6	16.83	--	Pass
165	5825	6	17.01	--	Pass

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

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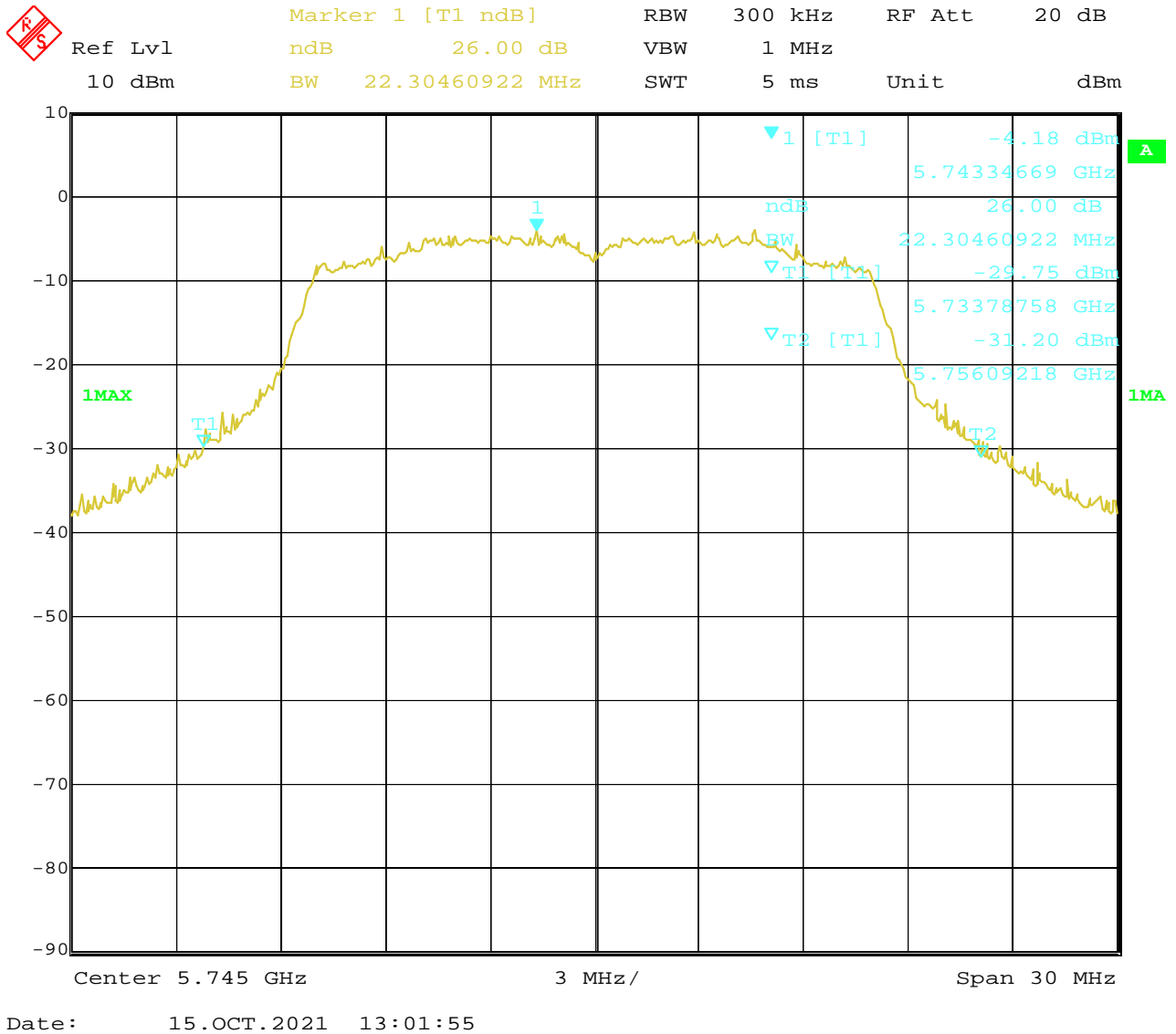
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Figure:

26dB Bandwidth

Channel 149



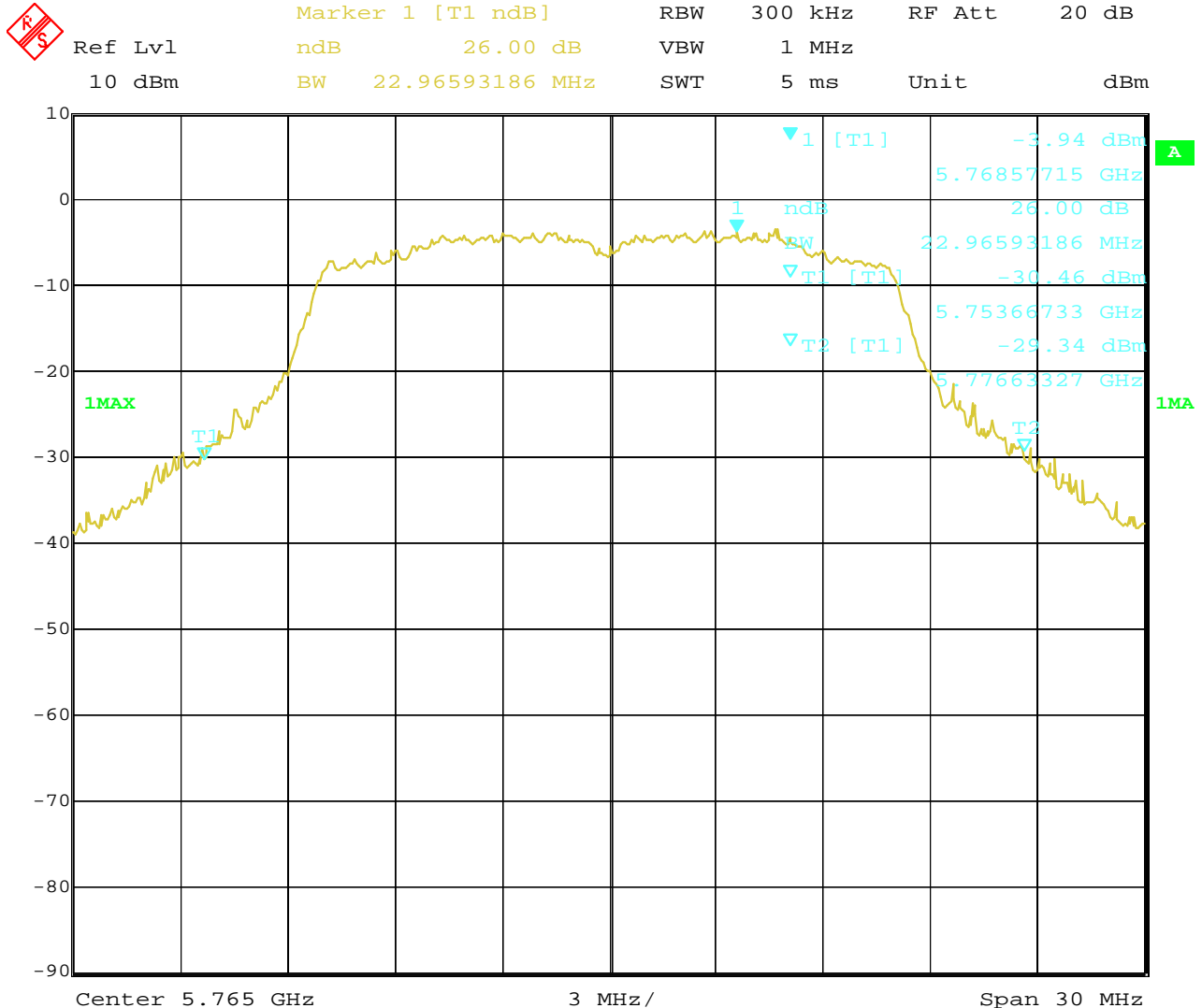
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Channel 153



Date: 15.OCT.2021 14:19:24

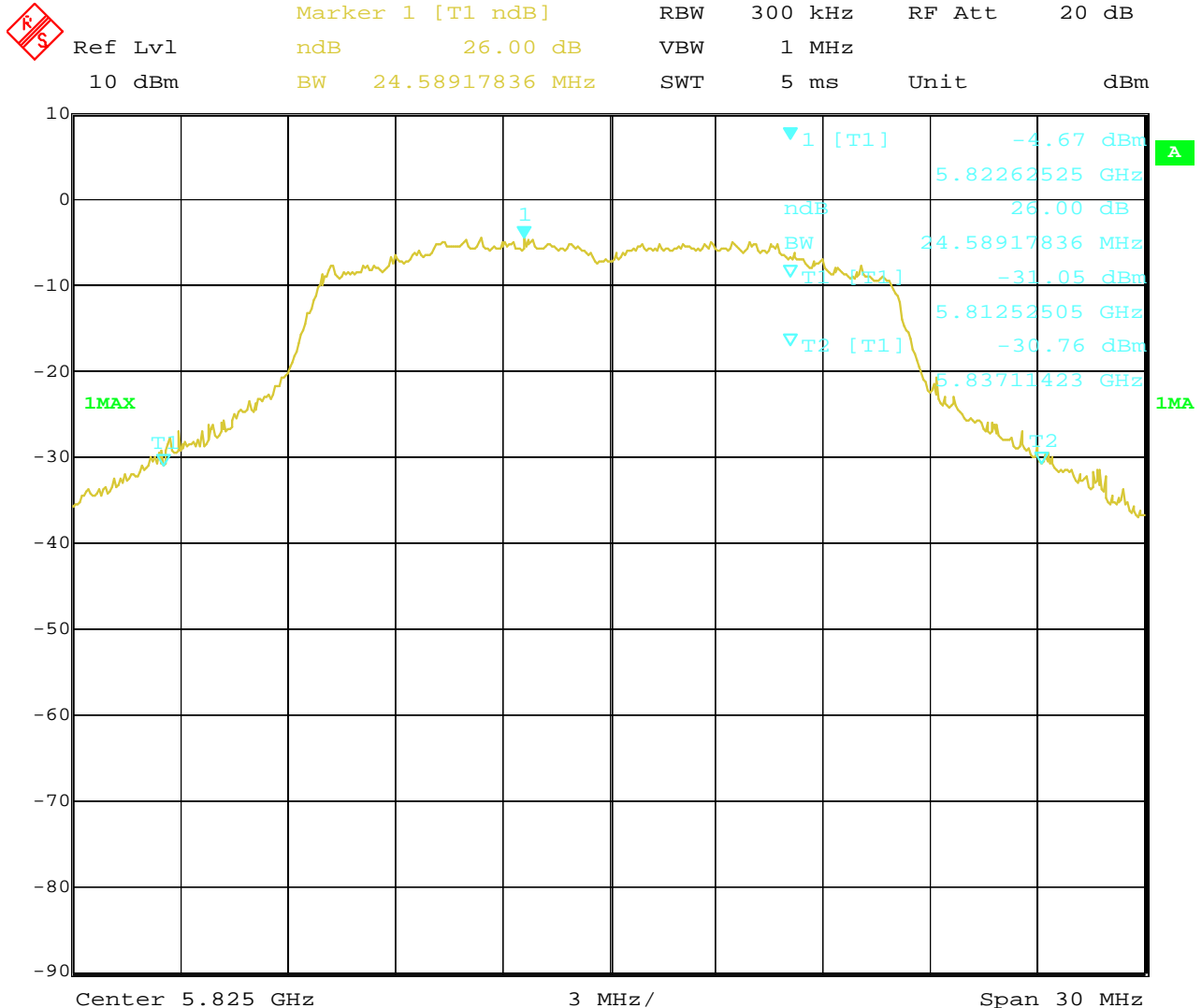
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In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Channel 165



Date: 15.OCT.2021 14:42:05

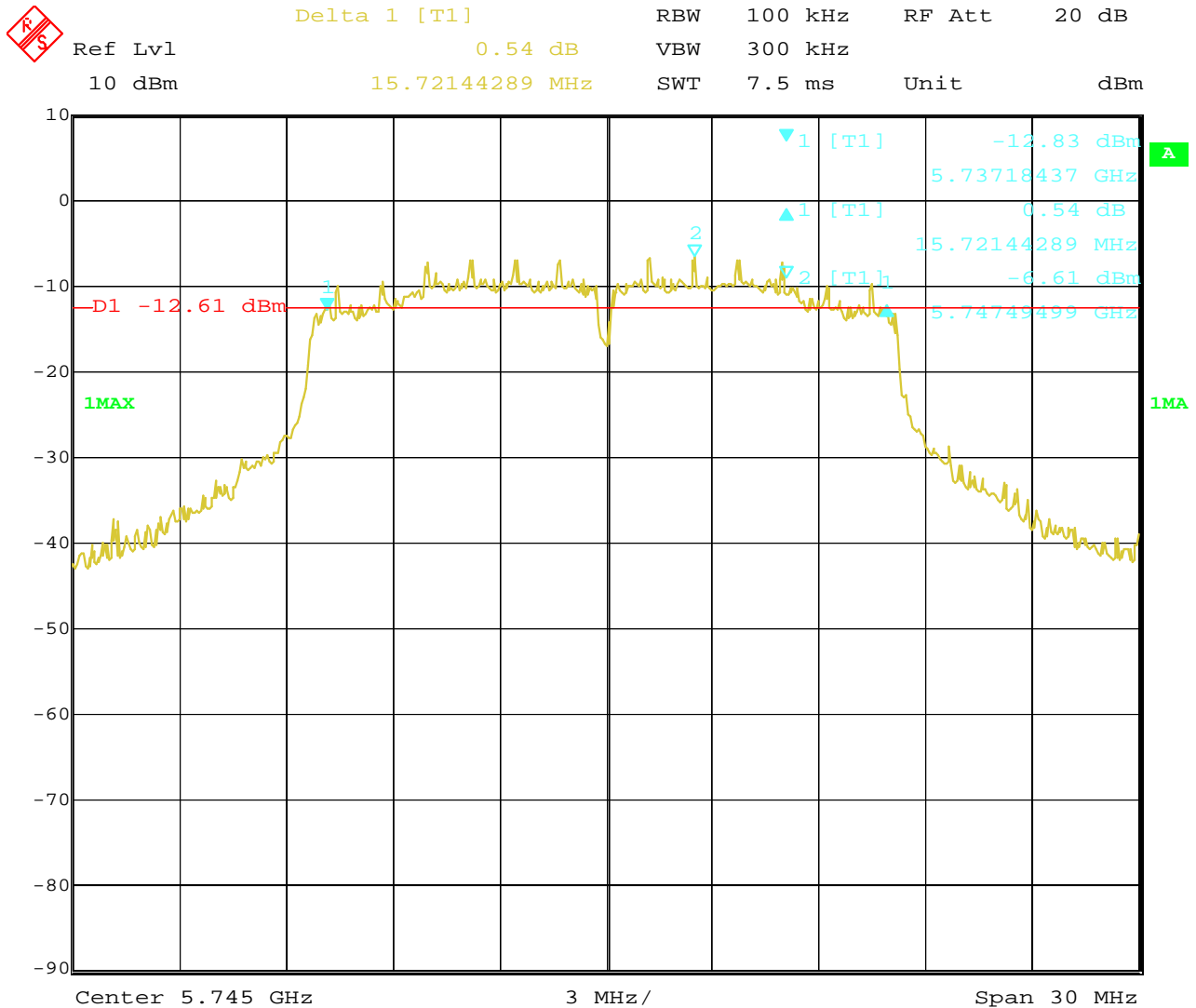
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Test Figure:

6dB Bandwidth

Channel 149



Date: 15.OCT.2021 13:00:21

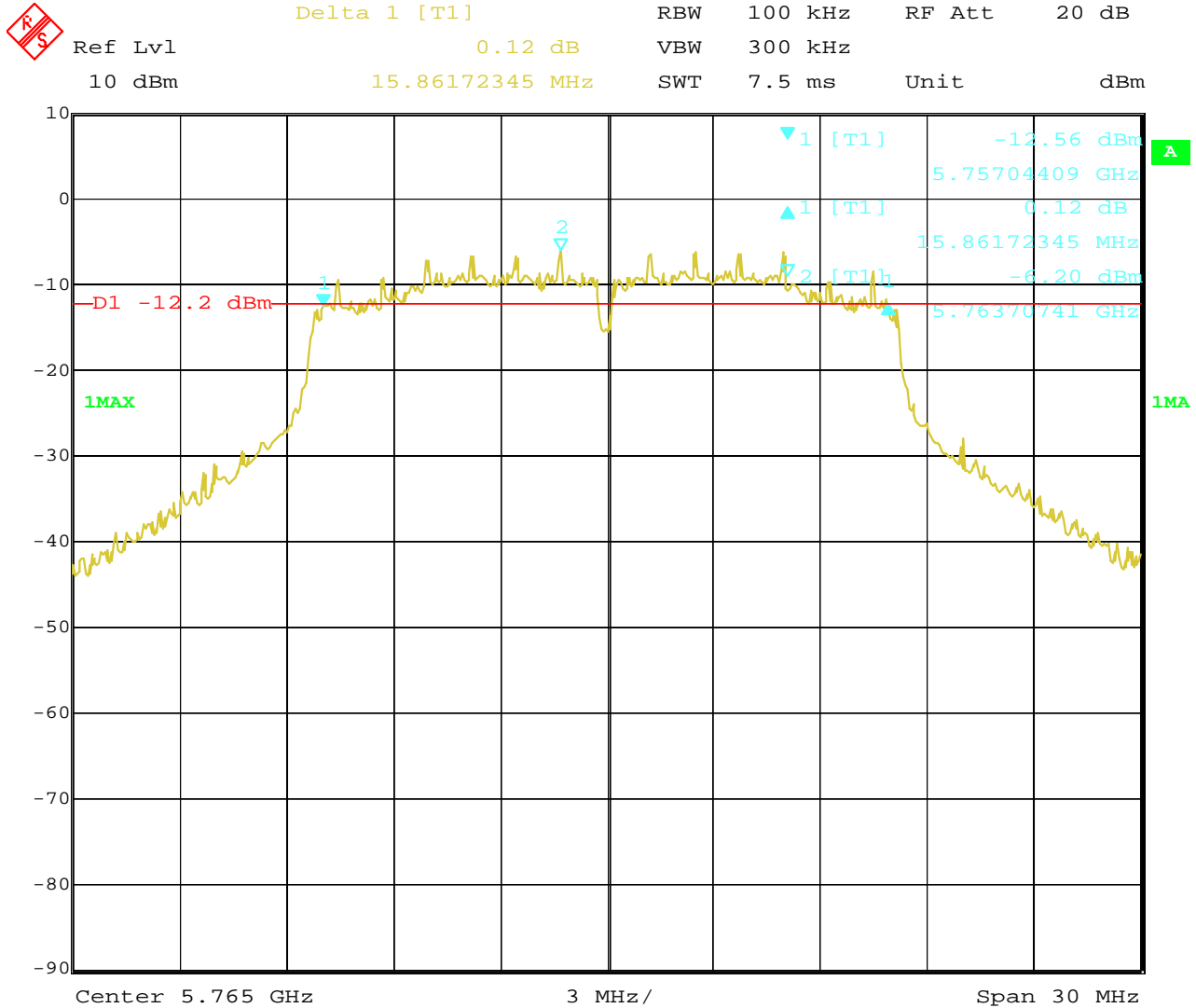
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In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Channel 153



Date: 15.OCT.2021 14:17:51

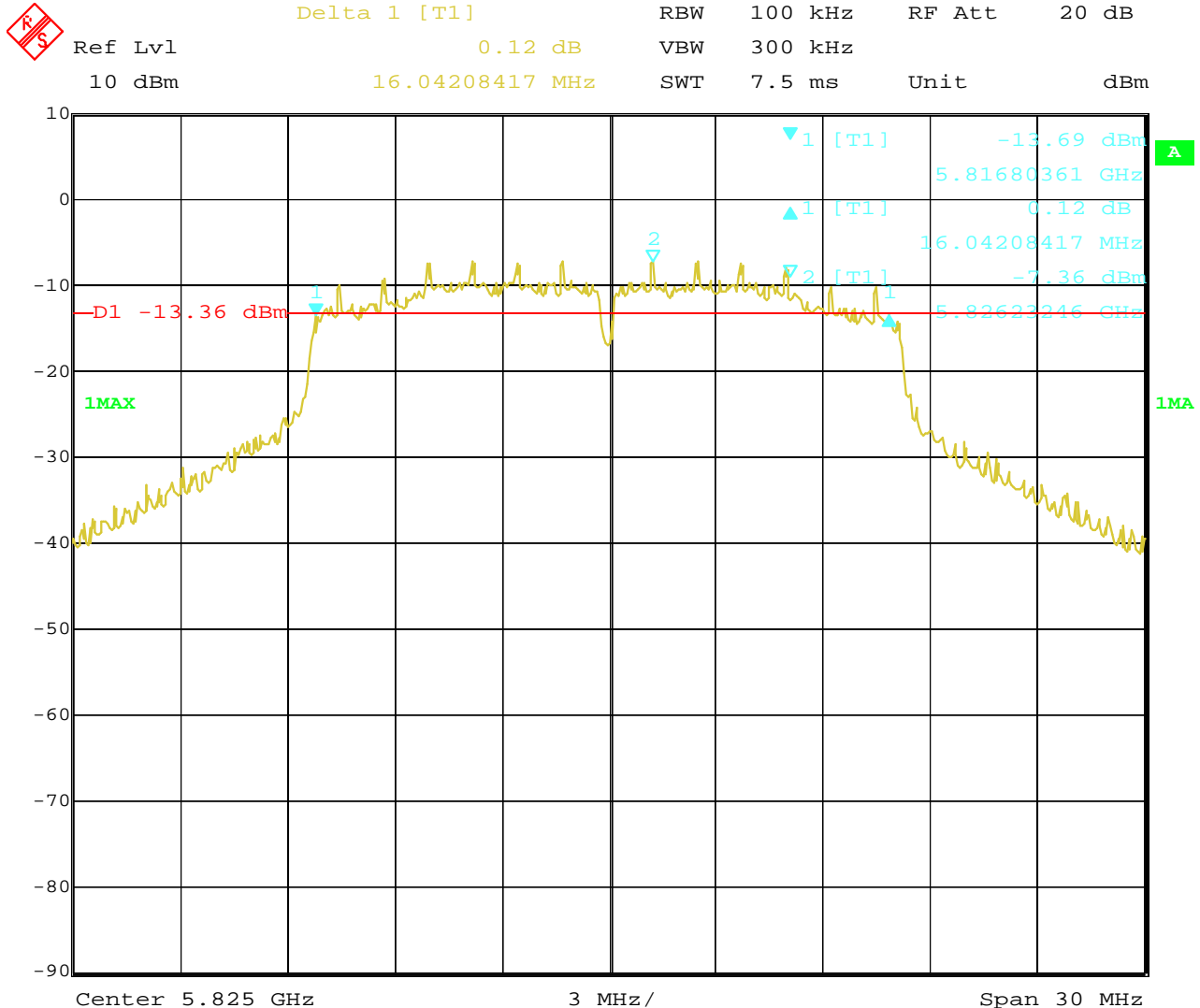
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Channel 165



Date: 15.OCT.2021 14:39:41

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

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for advertising. The client to whom the report is issued may, however, show or send it, or a certified copy thereof prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES, to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES, will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

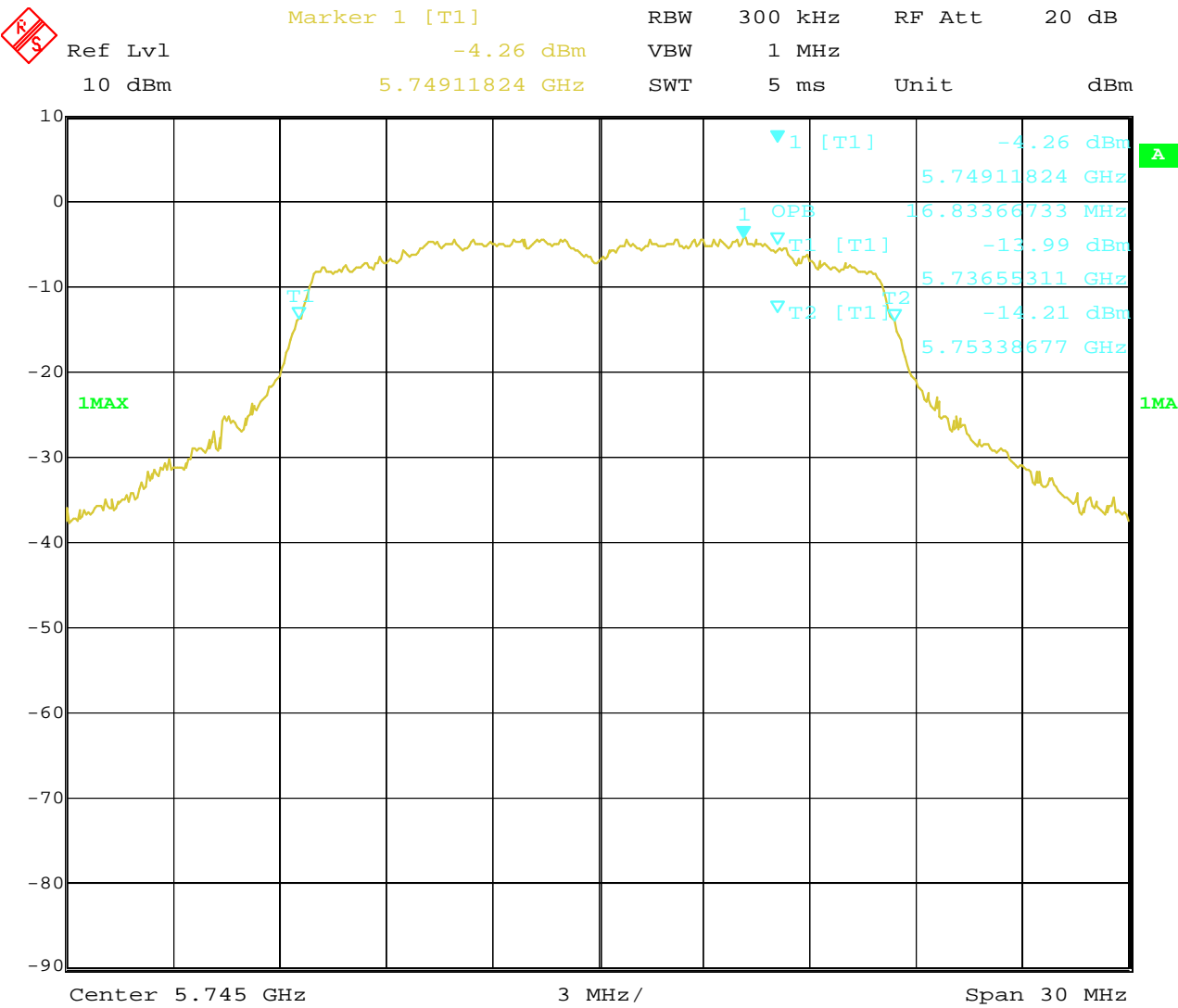
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Figure:

99% Bandwidth

Channel 149

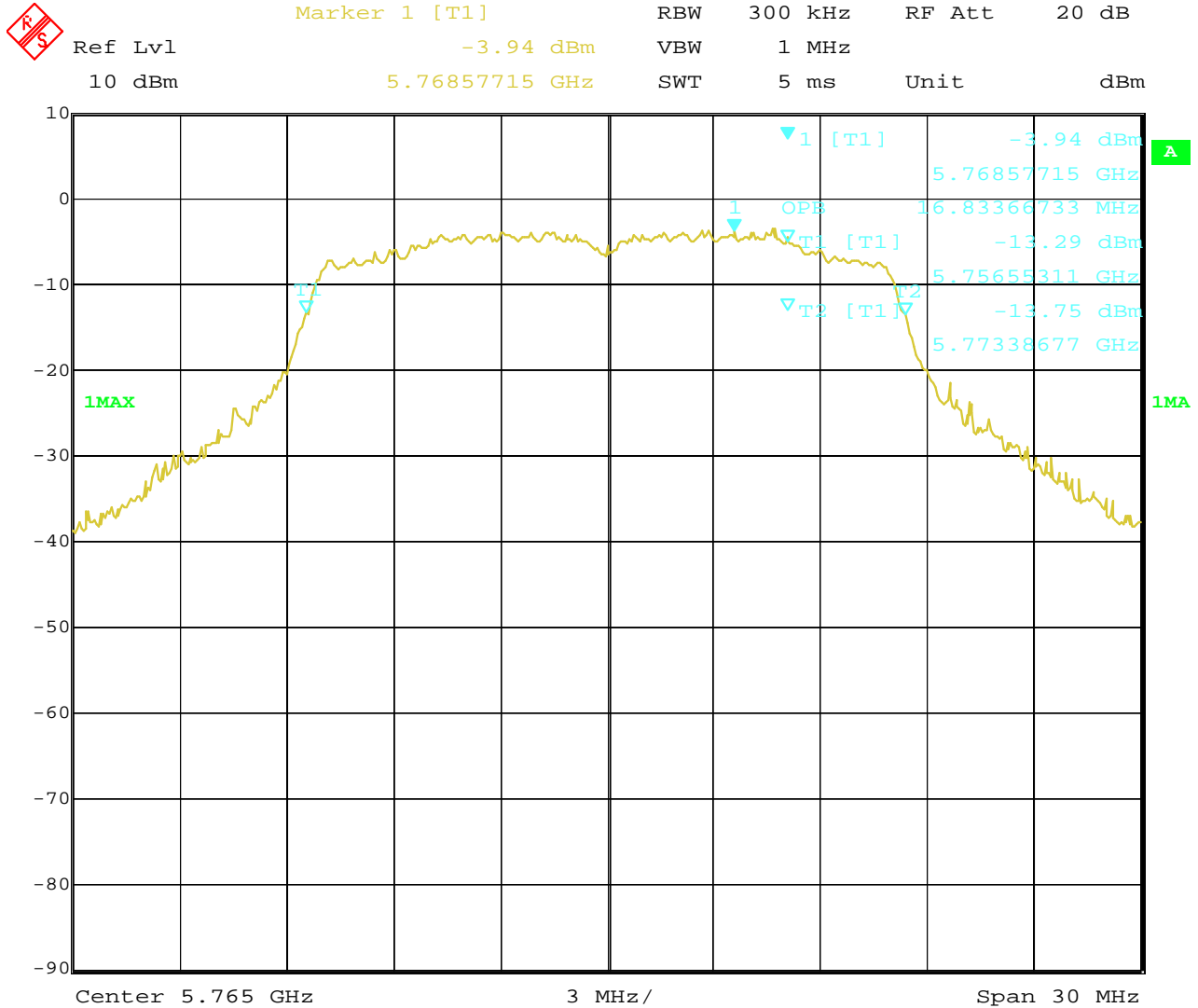


Date: 15.OCT.2021 13:52:42

The report refers only to the sample tested and does not apply to the bulk.
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for advertizing. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.
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Channel 153

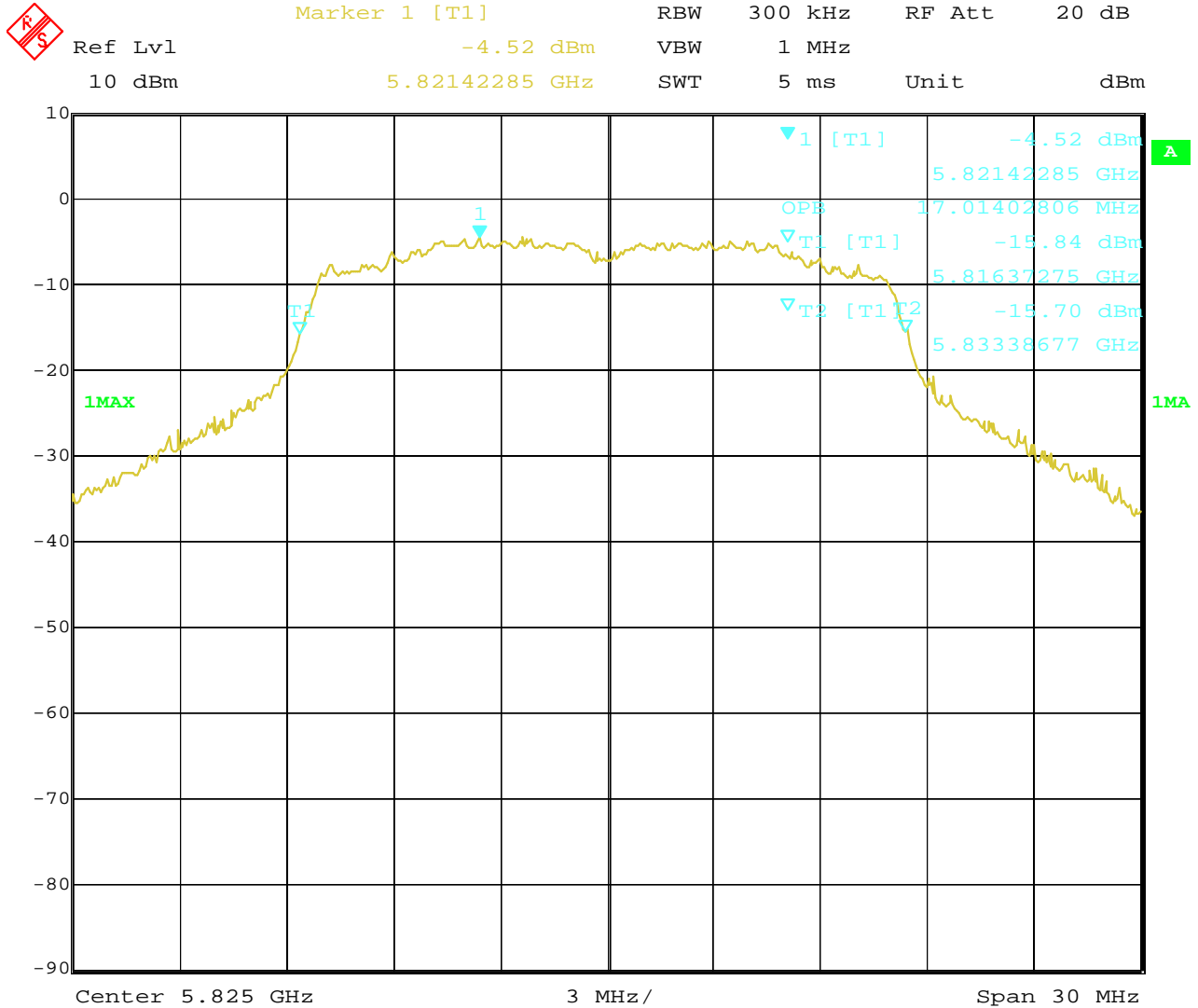


Date: 15.OCT.2021 14:19:35

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Channel 165



Date: 15.OCT.2021 14:42:53

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EUT		Portable Notebook		Model	NP153GK-X
Mode		802.11n HT20		Input Voltage	DC7.6V
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	25.07	--	Pass
48	5240	mcs0	26.03	--	Pass
99% Bandwidth					
36	5180	mcs0	17.98	--	Pass
40	5200	mcs0	18.04	--	Pass
48	5240	mcs0	18.10	--	Pass

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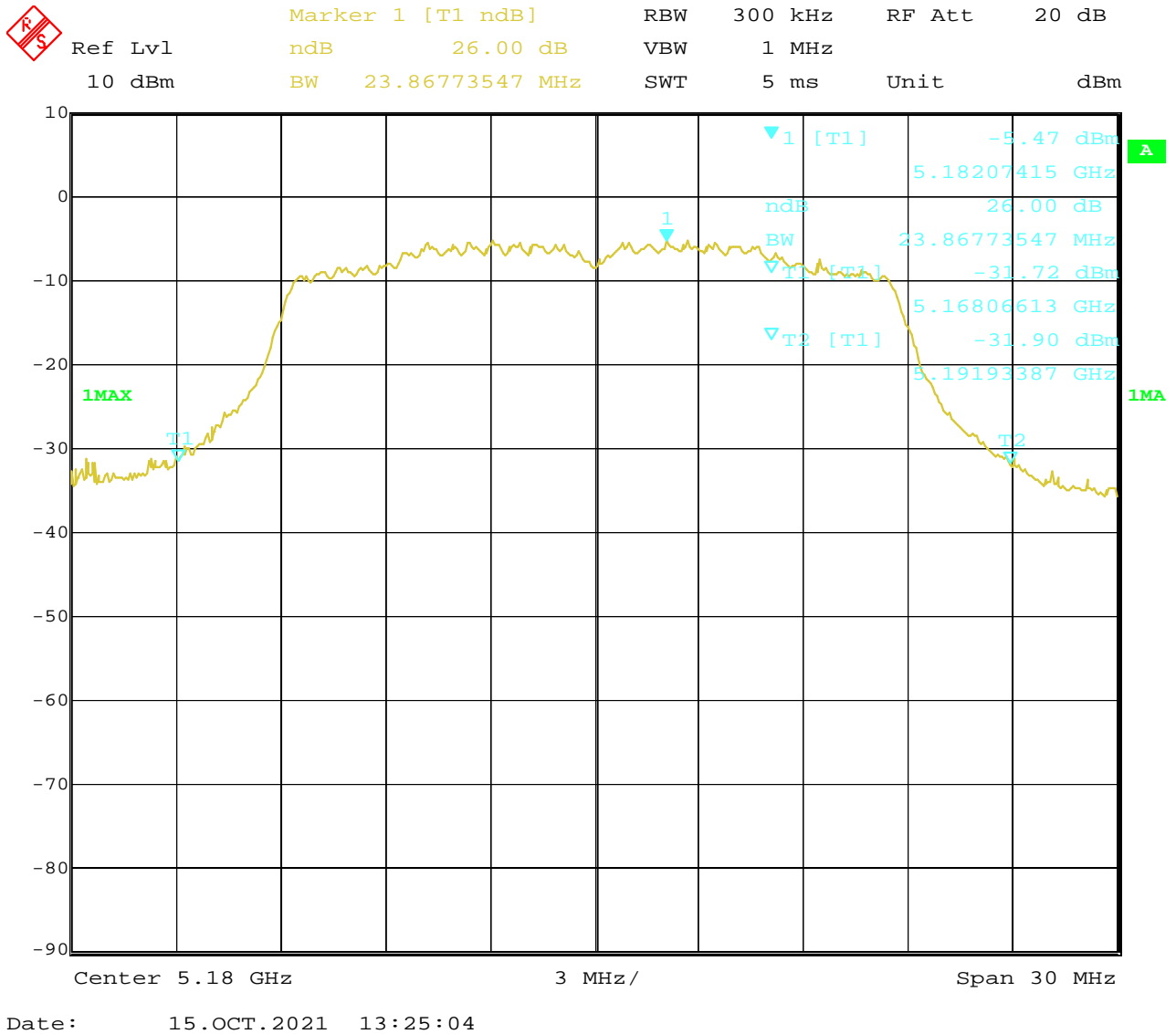
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

26dB Bandwidth

Channel 36



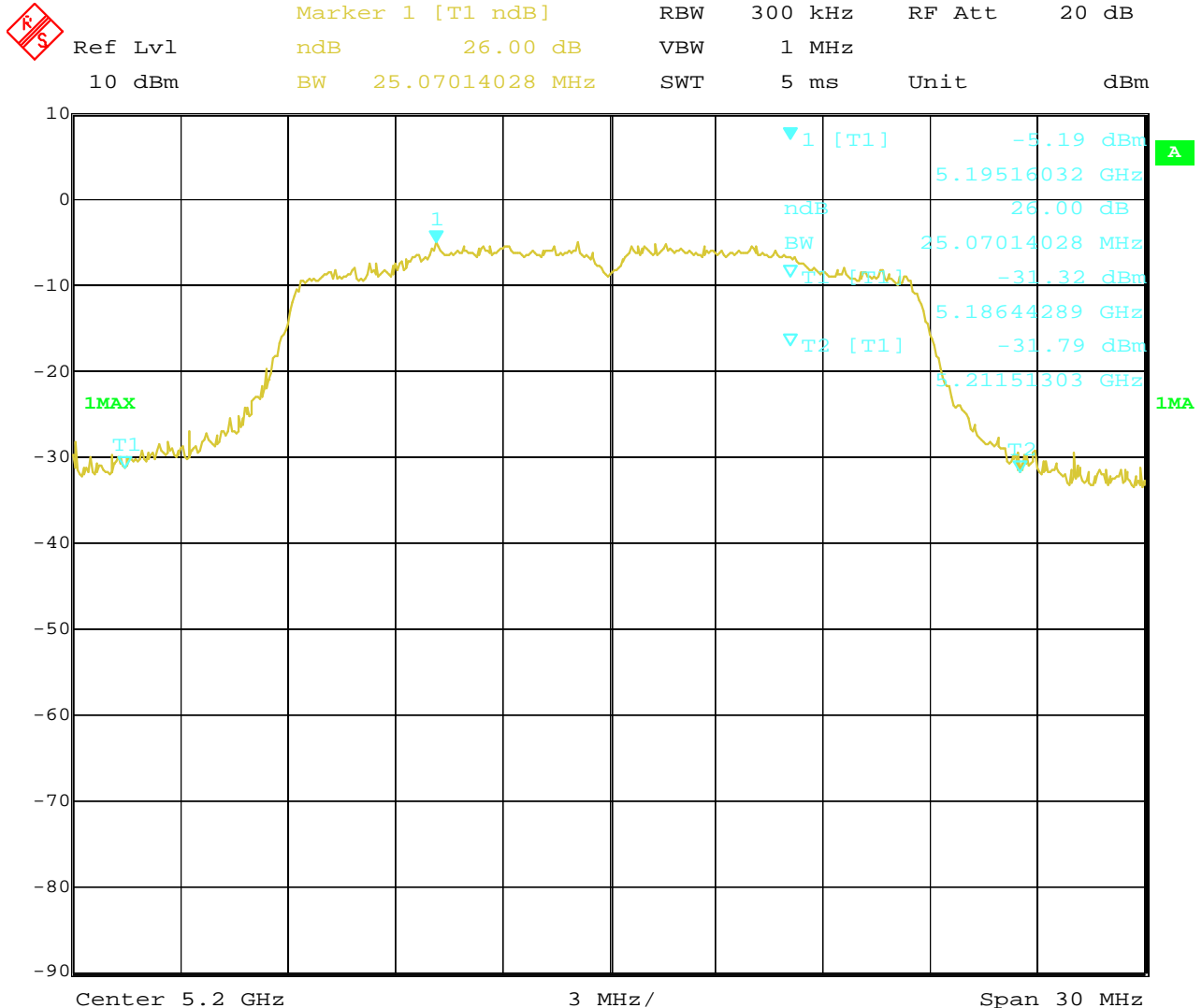
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Channel 40

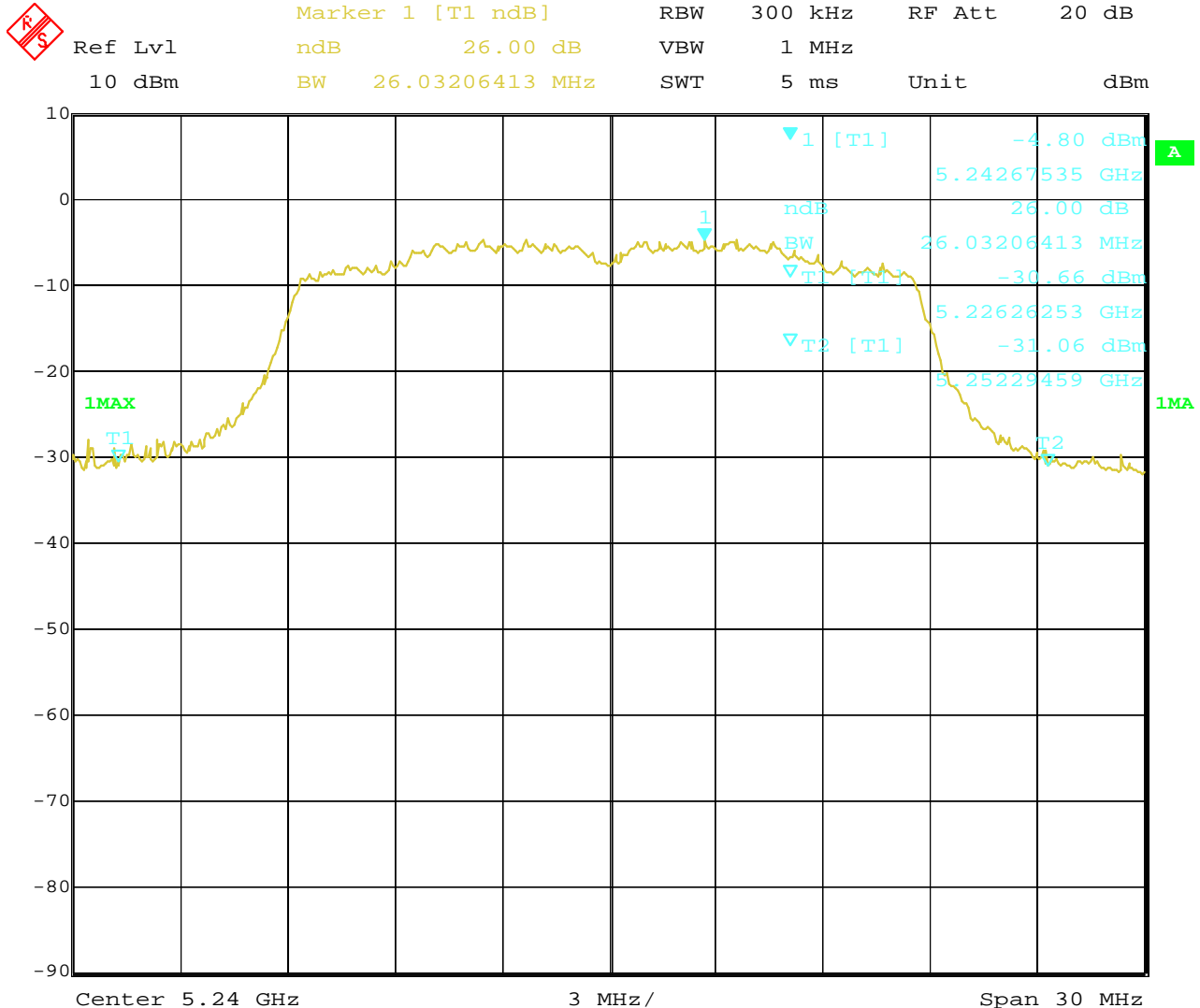


Date: 15.OCT.2021 13:16:44

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



Date: 15.OCT.2021 13:13:28

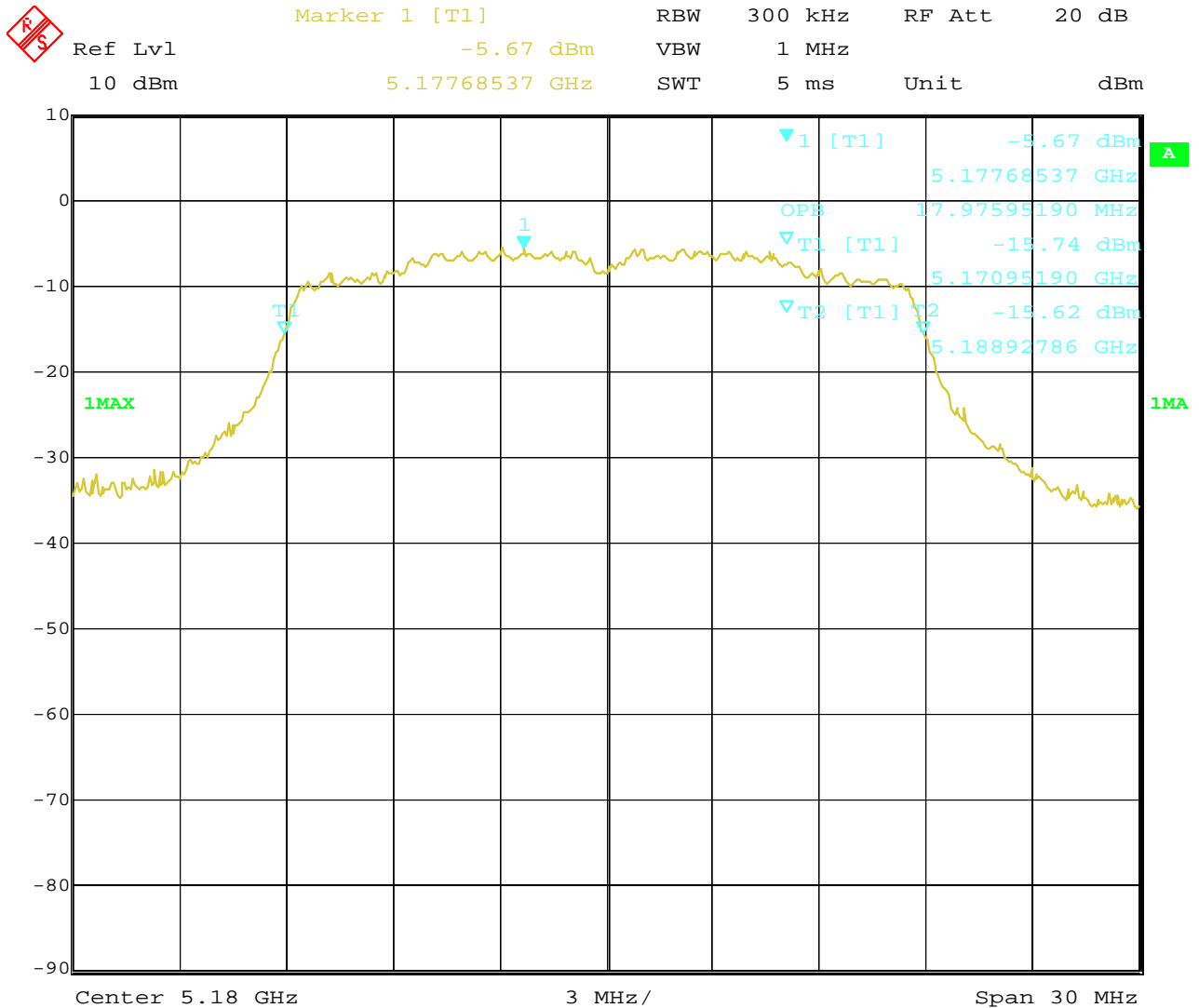
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Test Configure

99% Bandwidth

Channel 36



Date: 14.OCT.2021 16:55:19

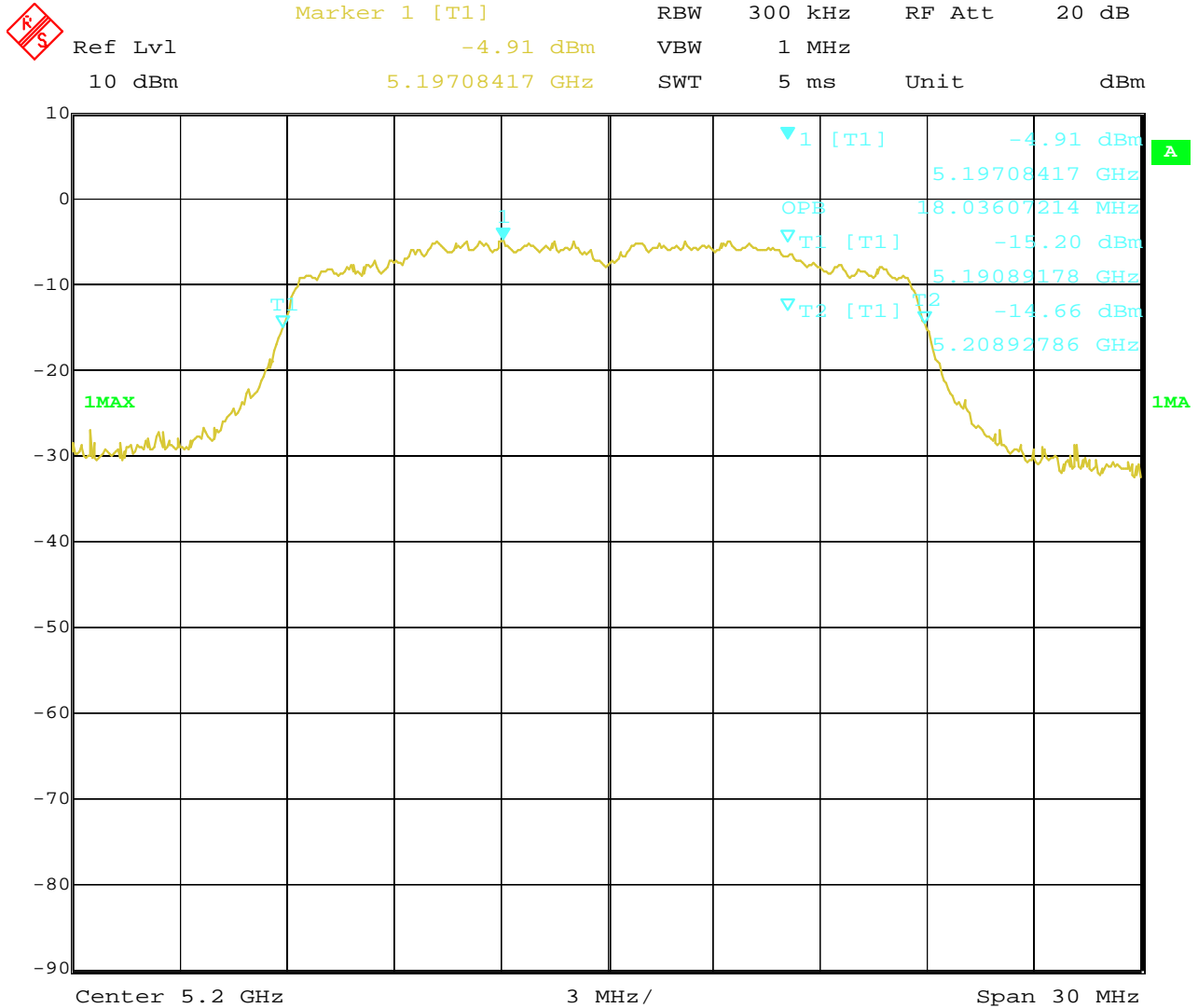
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Channel 40



Date: 14.OCT.2021 16:44:48

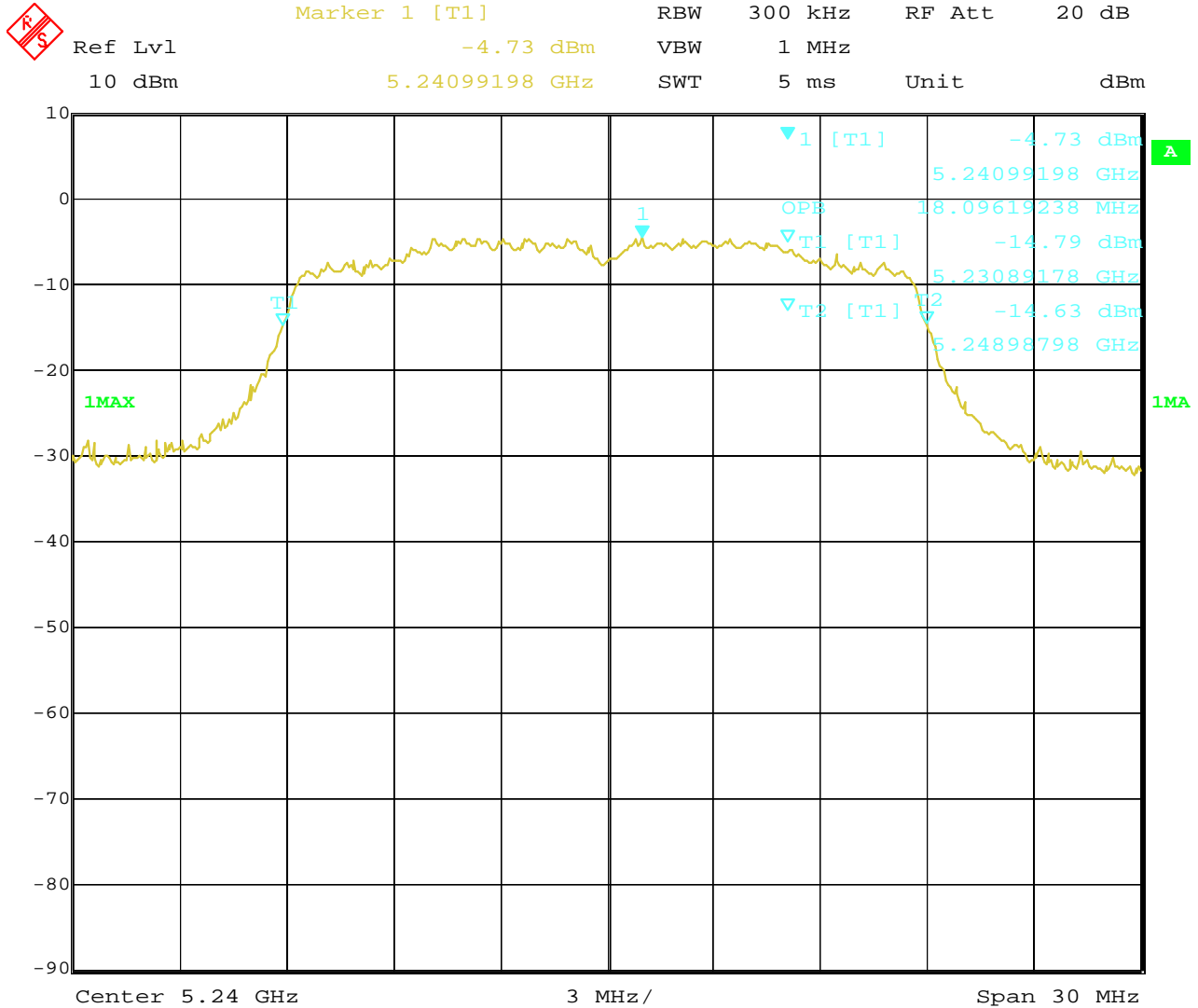
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Channel 48



Date: 14.OCT.2021 16:34:11

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EUT		Portable Notebook		Model	NP153GK-X
Mode		802.11n HT20		Input Voltage	DC7.6V
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	23.09	--	Pass
153	5765	6	23.69	--	Pass
165	5825	6	26.21	--	Pass
6dB Bandwidth					
149	5745	6	16.82	0.5	Pass
153	5765	6	16.82	0.5	Pass
165	5825	6	16.83	0.5	Pass
99% Bandwidth					
149	5745	6	17.92	--	Pass
153	5765	6	17.92	--	Pass
165	5825	6	18.16	--	Pass

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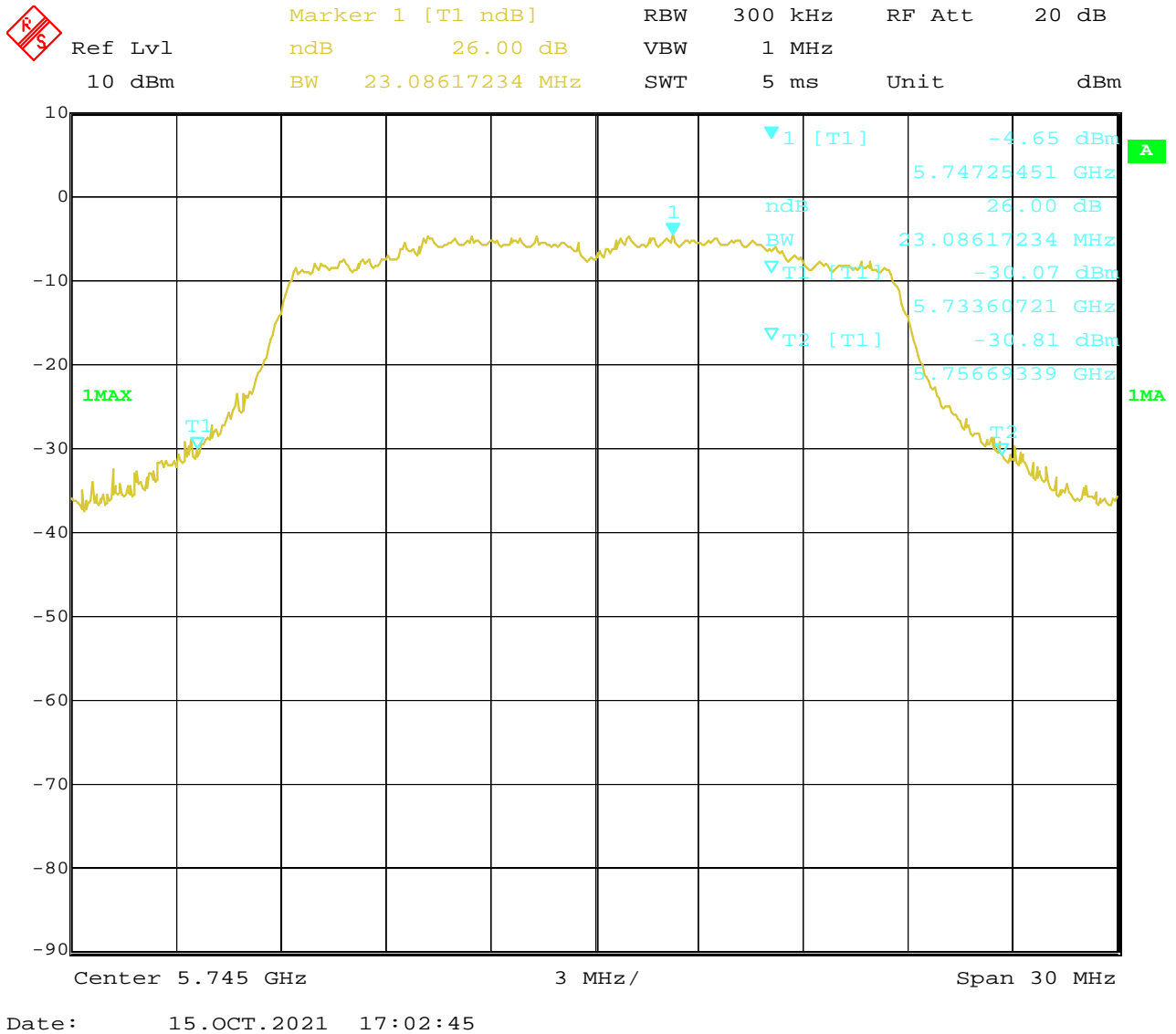
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

26dB Bandwidth

Channel 149



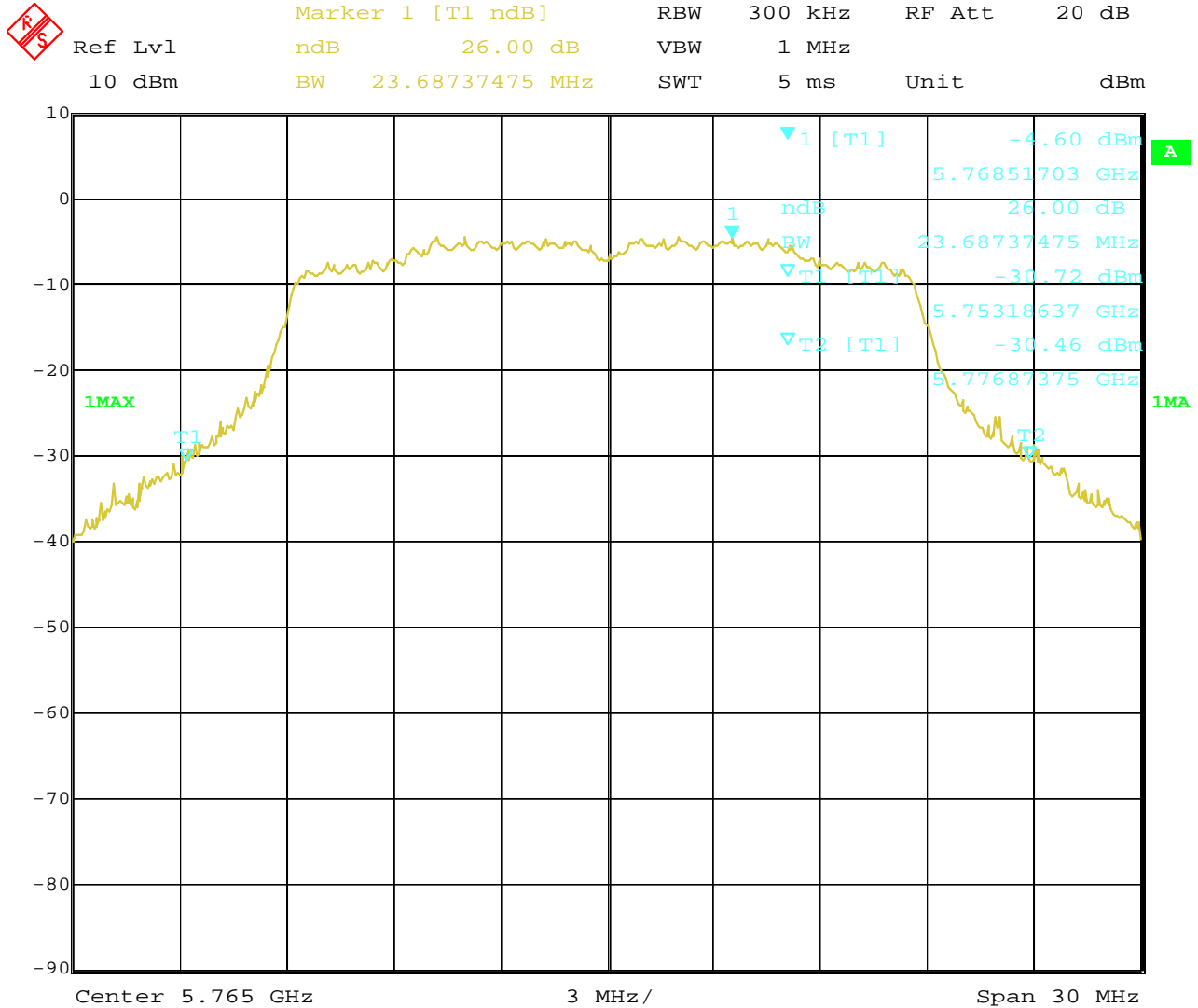
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Channel 153

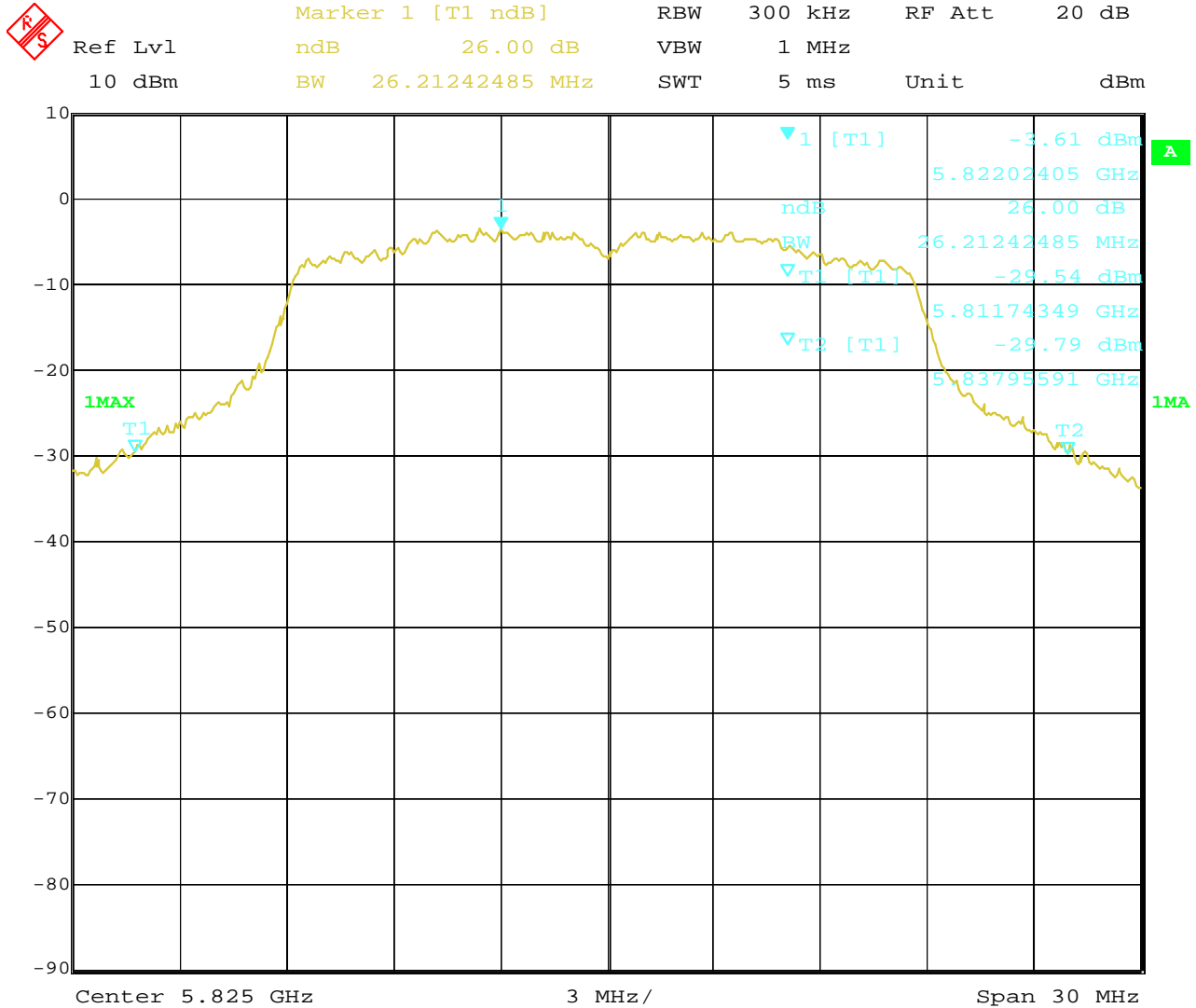


Date: 15.OCT.2021 16:48:35

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Channel 165



Date: 15.OCT.2021 16:21:22

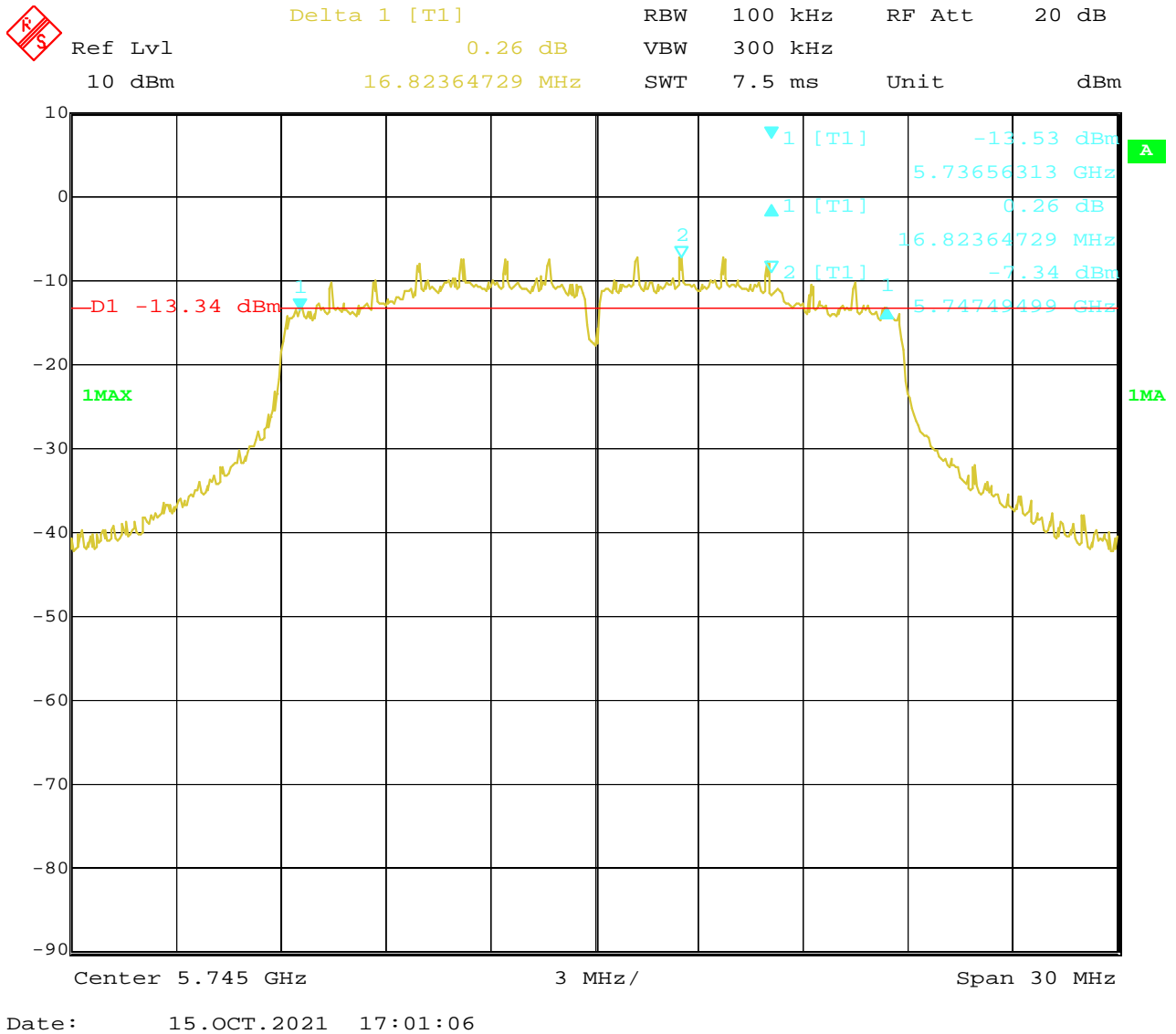
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Test Configure

6dB Bandwidth

Channel 149



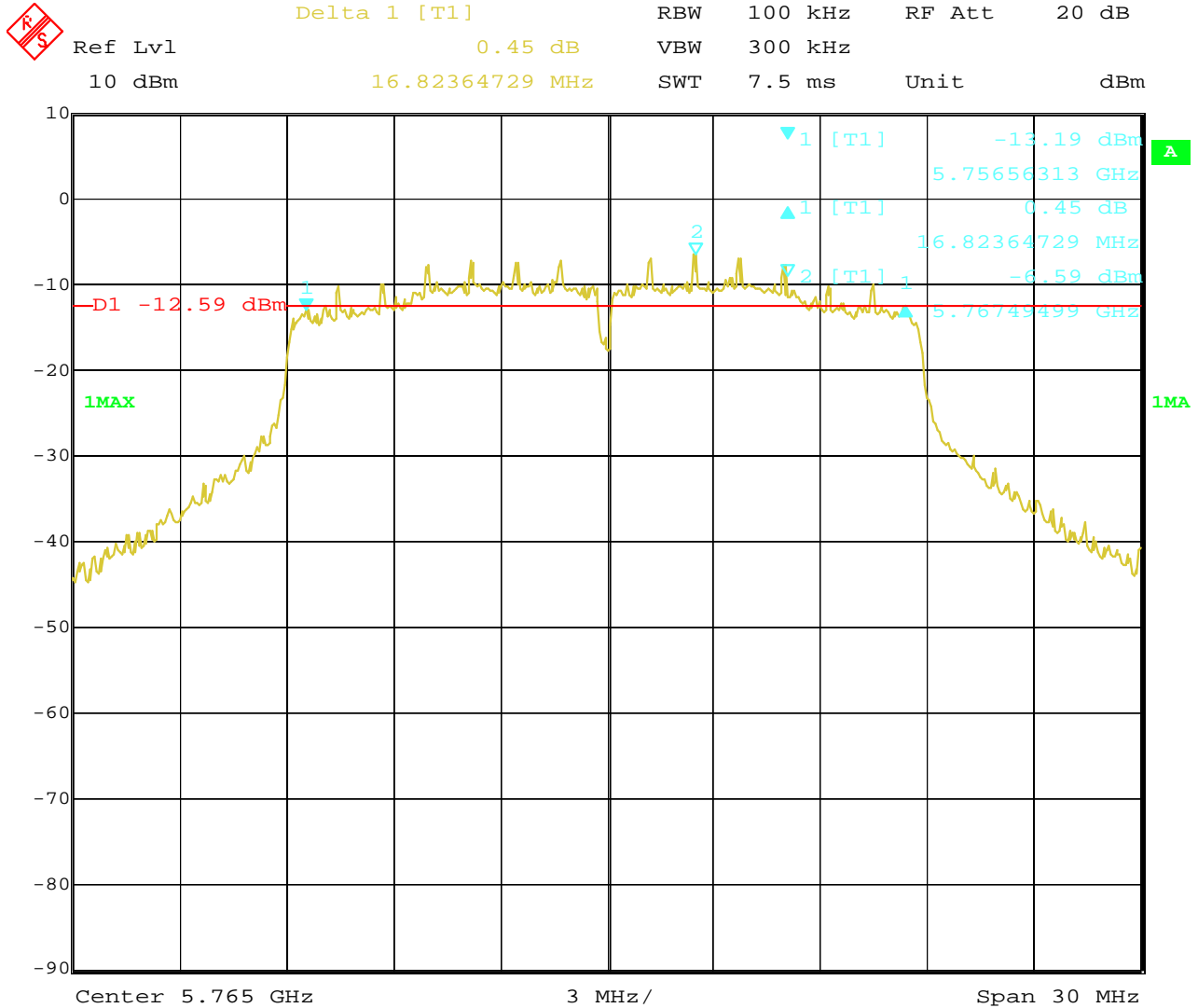
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Channel 153



Date: 15.OCT.2021 16:46:15

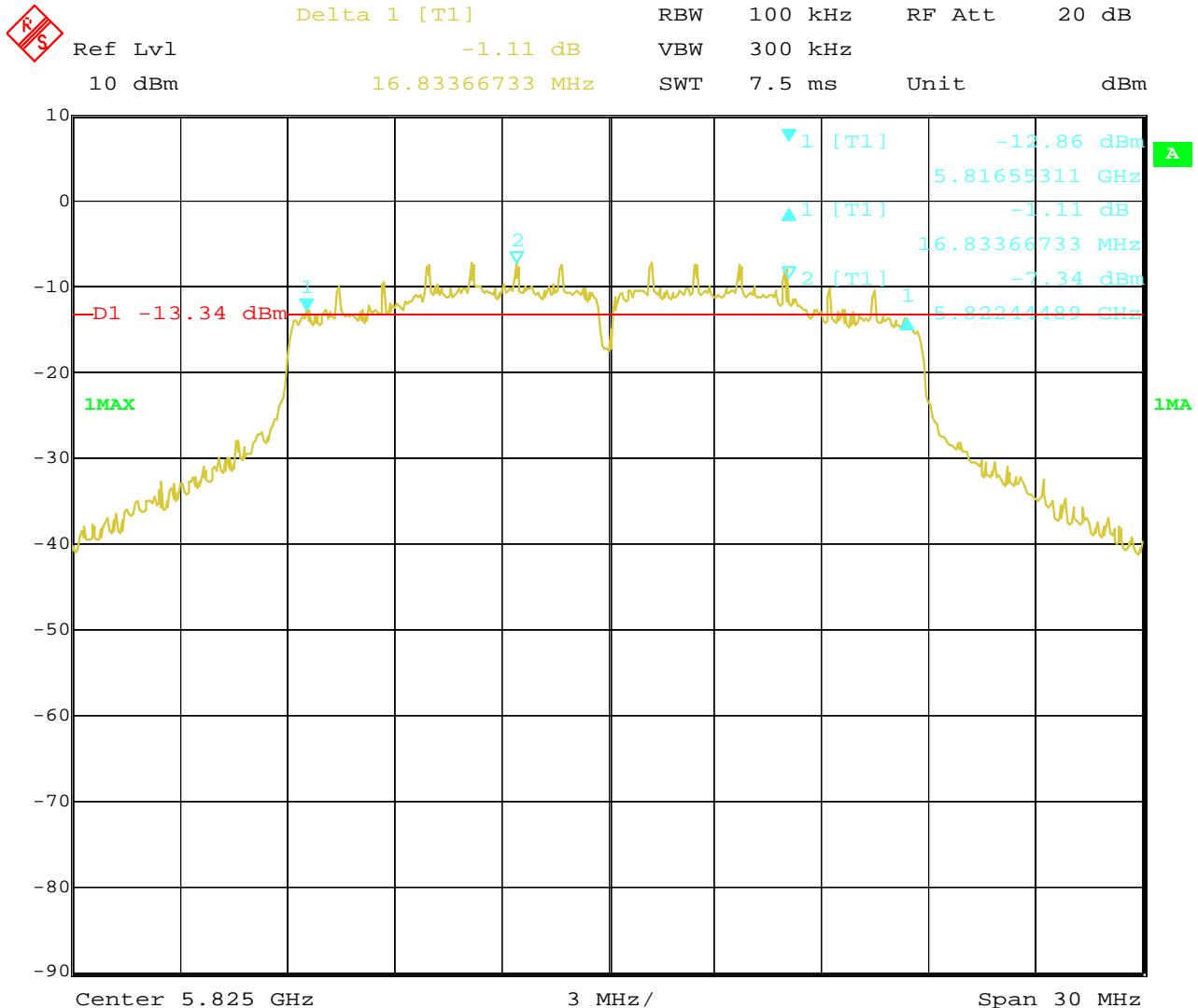
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Channel 165



Date: 15.OCT.2021 15:13:11

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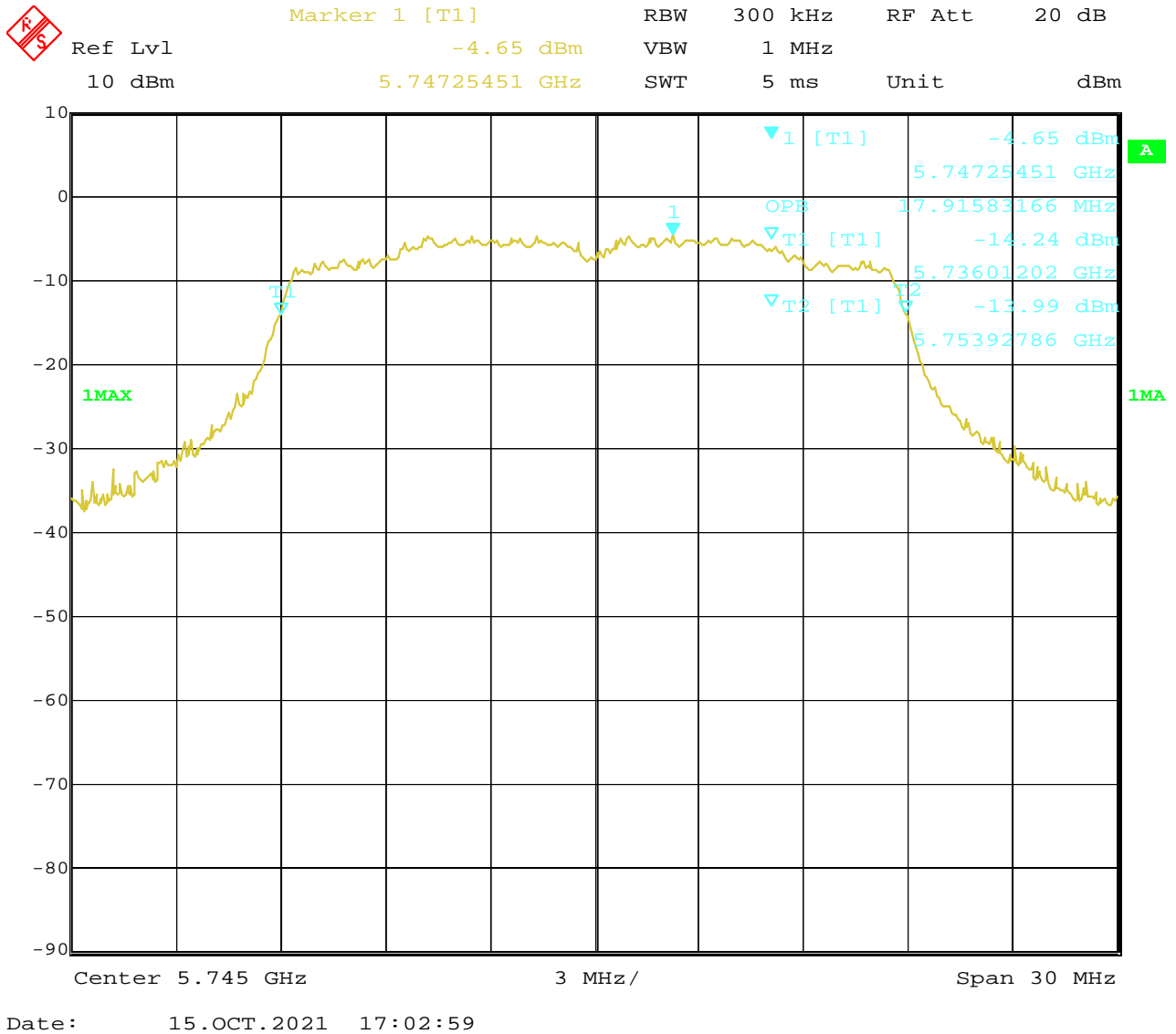
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Test Configure

99% Bandwidth

Channel 149



Date: 15.OCT.2021 17:02:59

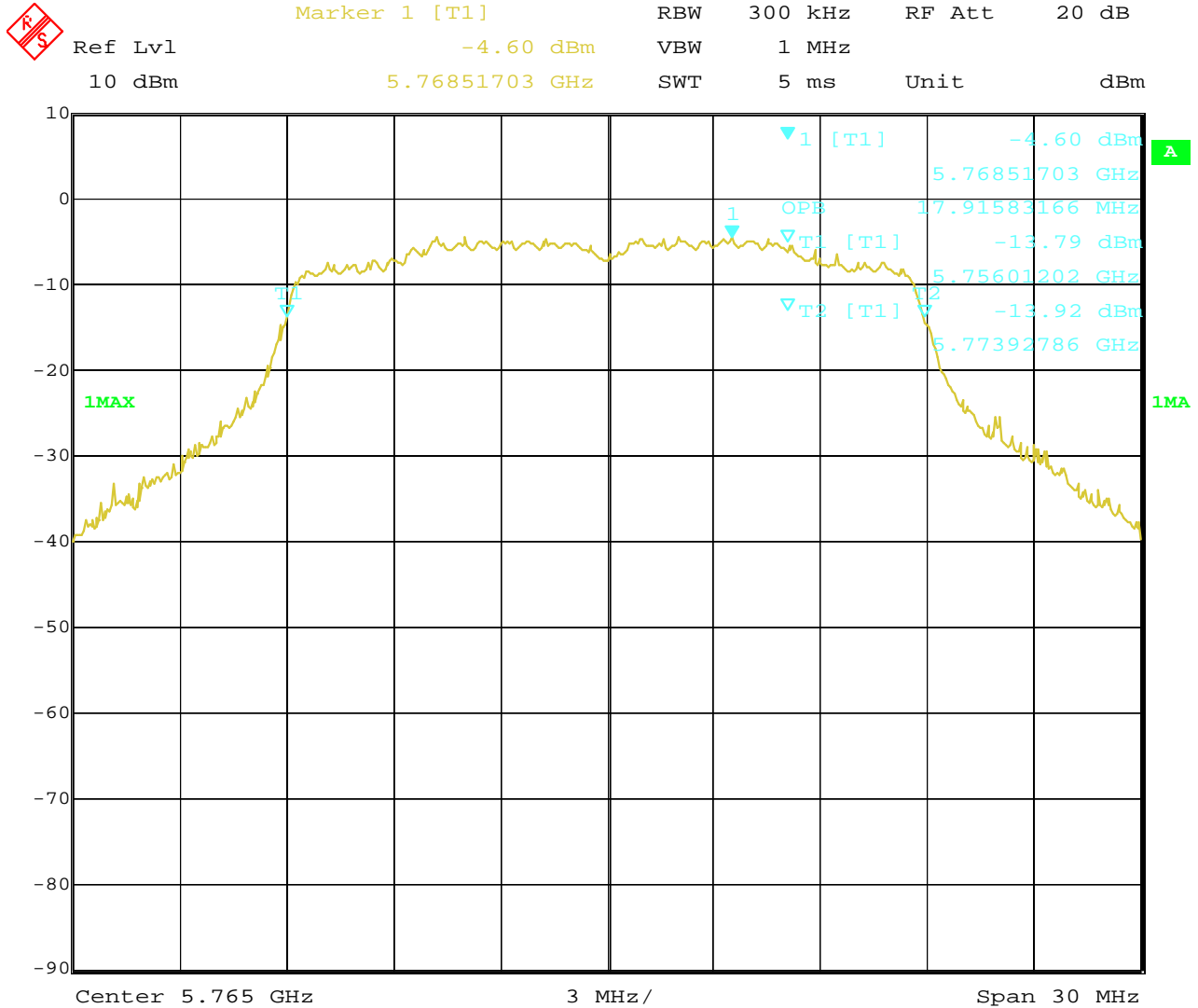
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Channel 153



Date: 15.OCT.2021 16:48:55

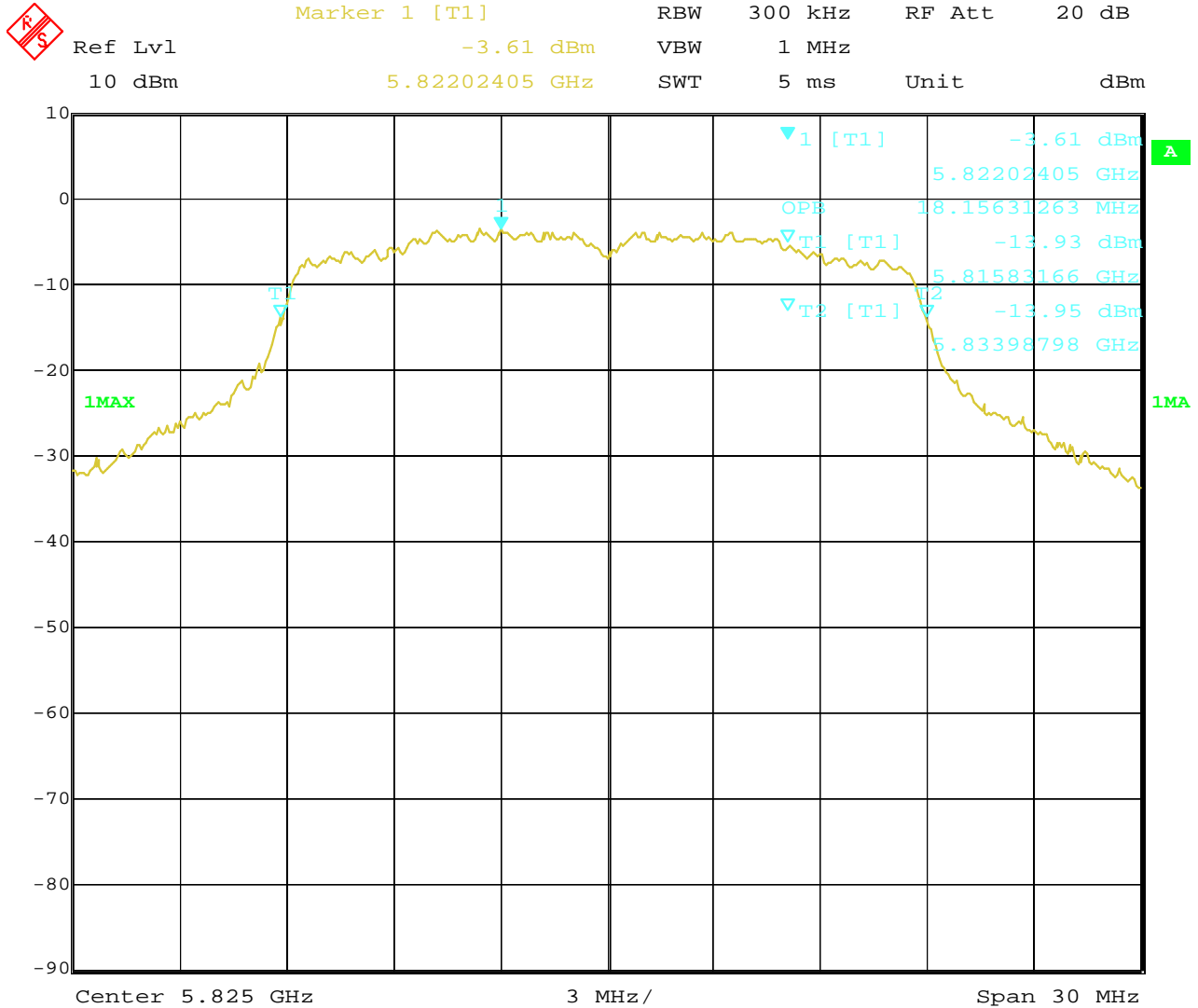
The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for advertising. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Channel 165



Date: 15.OCT.2021 16:21:45

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EUT	Portable Notebook		Model	NP153GK-X	
Mode	802.11n HT40		Input Voltage	DC7.6V	
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	42.93	--	Pass
46	5230	mcs0	43.41	--	Pass
99% Bandwidth					
38	5190	mcs0	36.43	--	Pass
46	5230	mcs0	36.79	--	Pass

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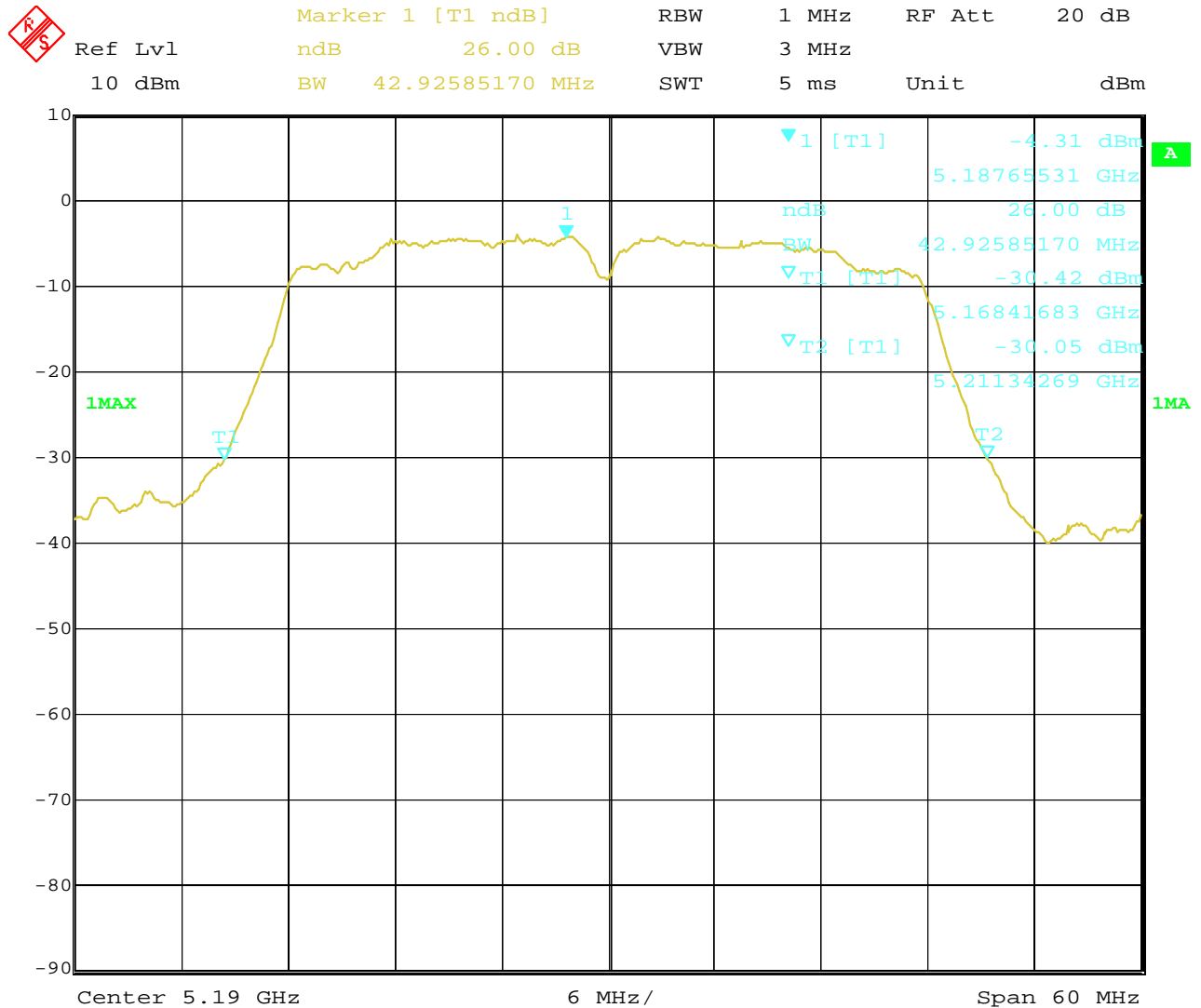
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

26dB Bandwidth

Channel 38



Date: 15.OCT.2021 13:44:56

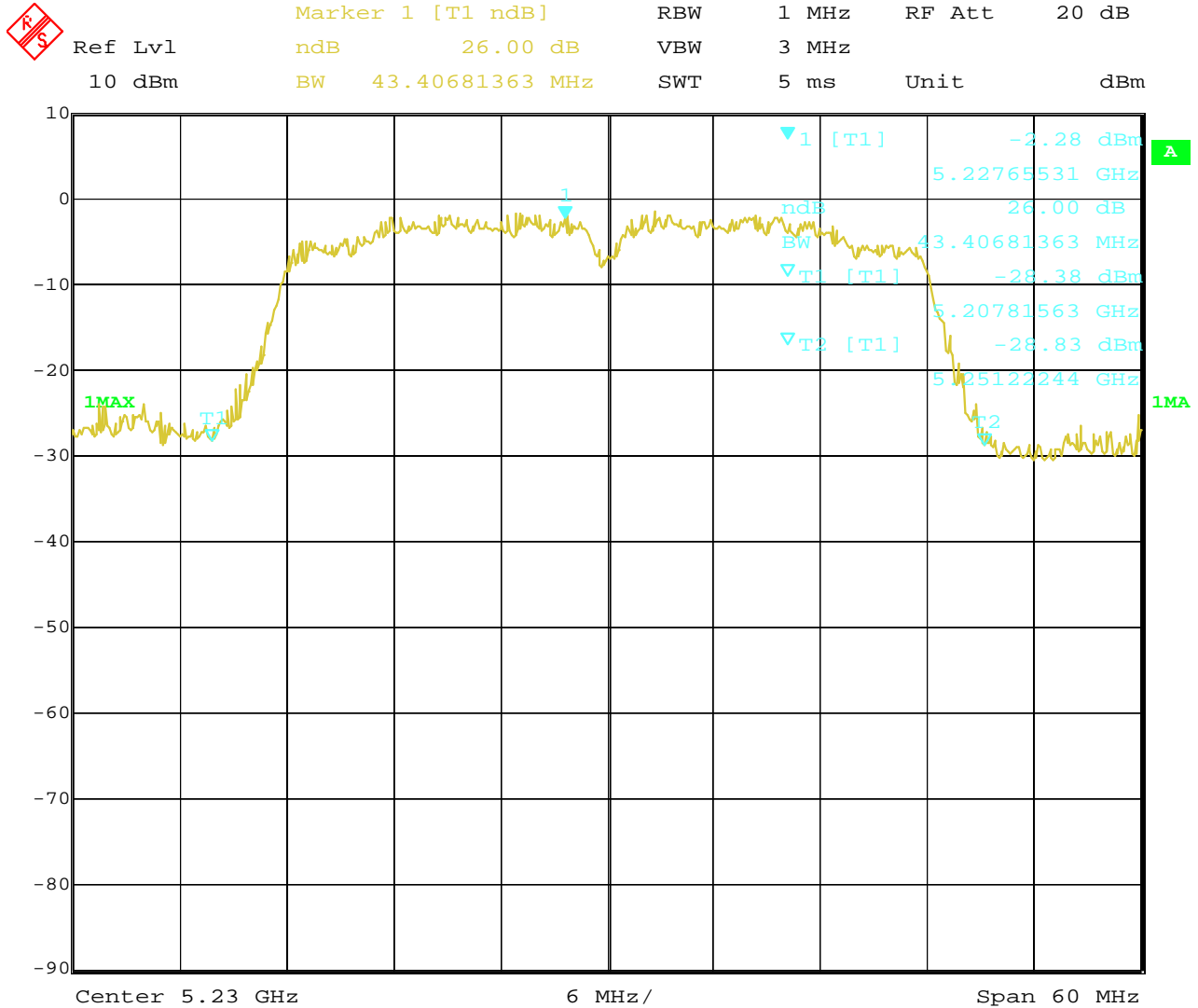
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Channel 46



Date: 15.OCT.2021 13:45:40

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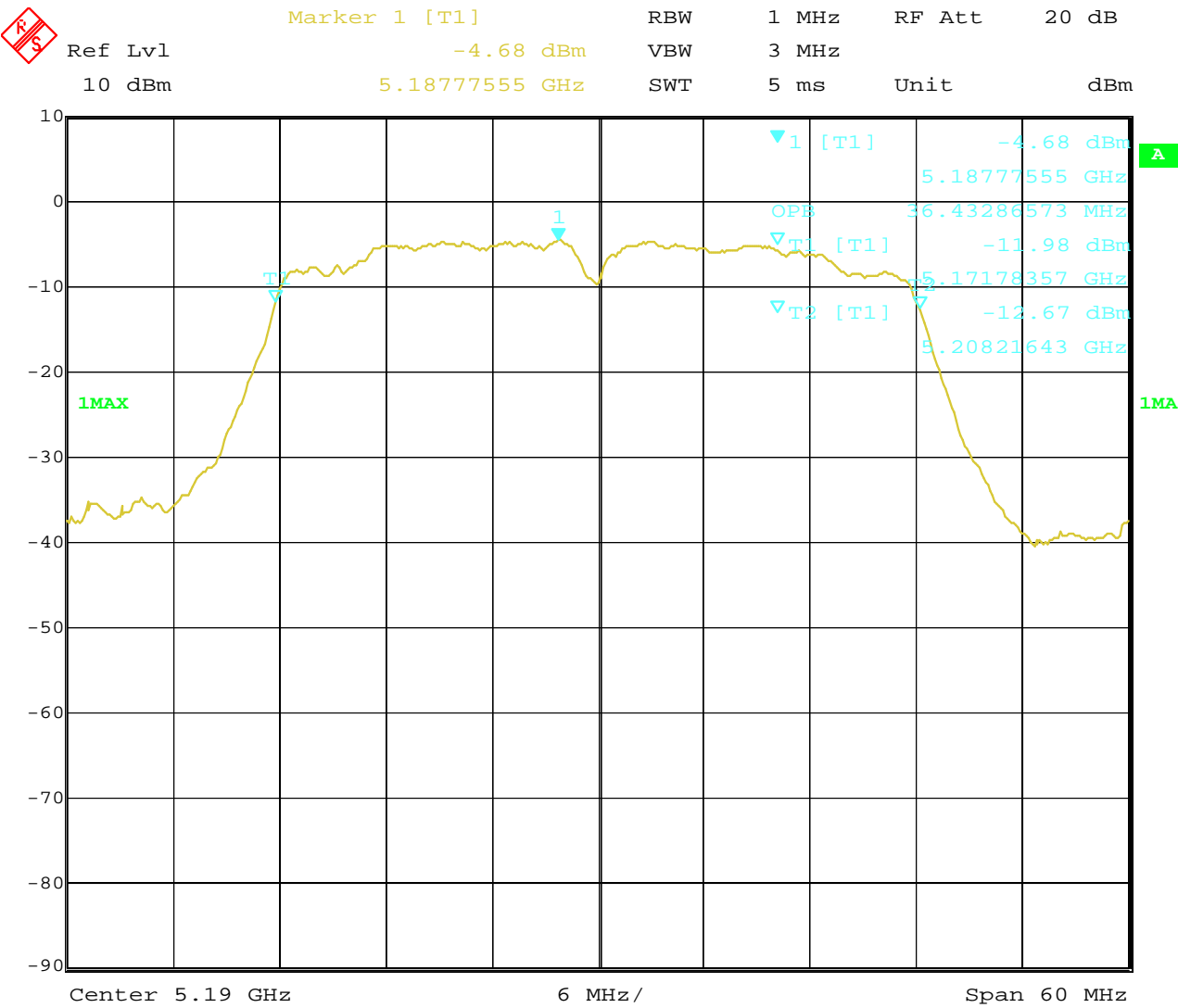
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

99% Bandwidth

Channel 38

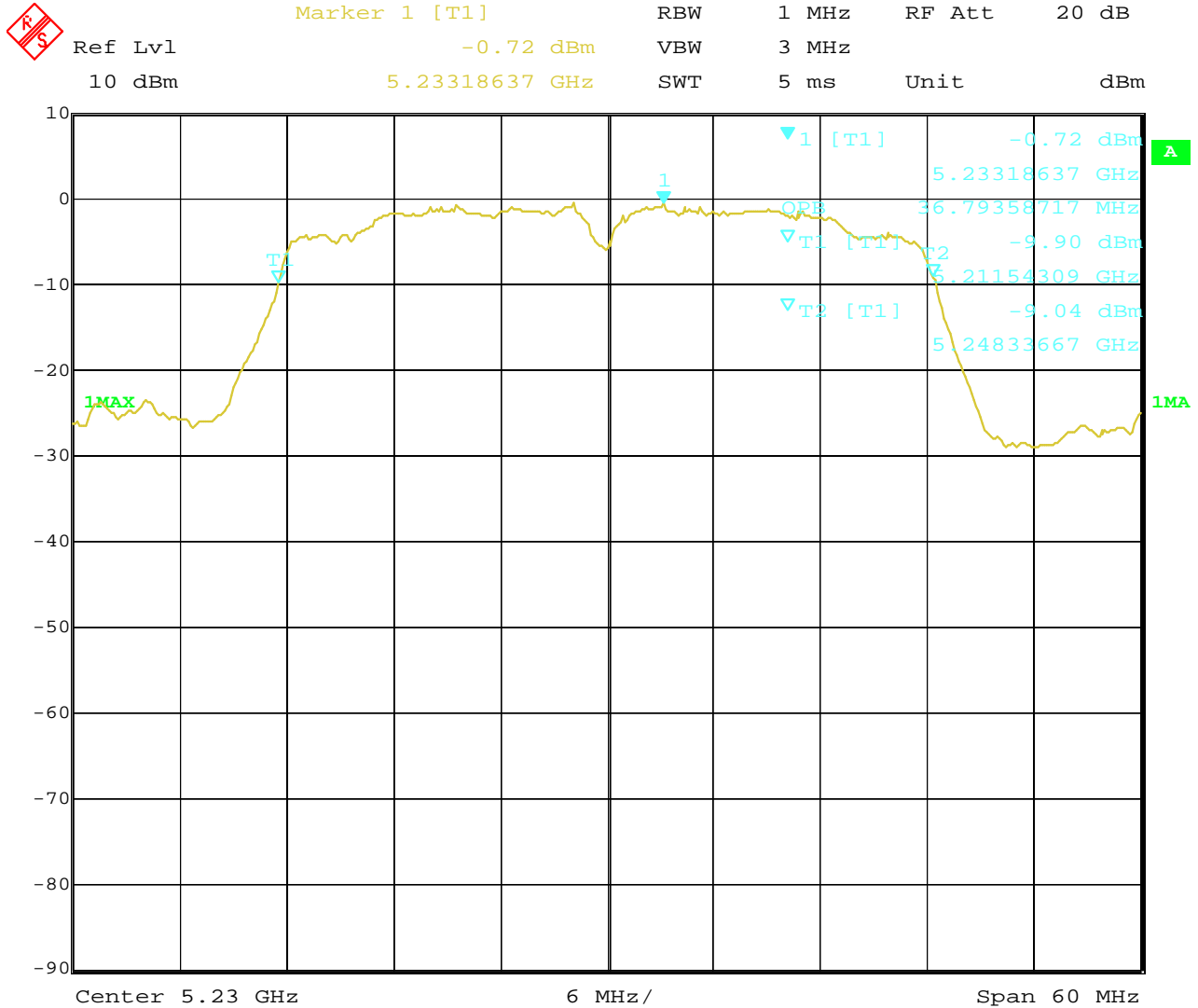


Date: 15.OCT.2021 10:29:43

The report refers only to the sample tested and does not apply to the bulk.
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Channel 46



Date: 15.OCT.2021 10:39:16

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EUT		Portable Notebook		Model	NP153GK-X
Mode		802.11n HT40		Input Voltage	DC7.6V
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	42.44	--	Pass
159	5795	mcs0	44.73	--	Pass
6dB Bandwidth					
151	5755	mcs0	35.27	0.5	Pass
159	5795	mcs0	35.23	0.5	Pass
99% Bandwidth					
151	5755	mcs0	36.43	--	Pass
159	5795	mcs0	36.43	--	Pass

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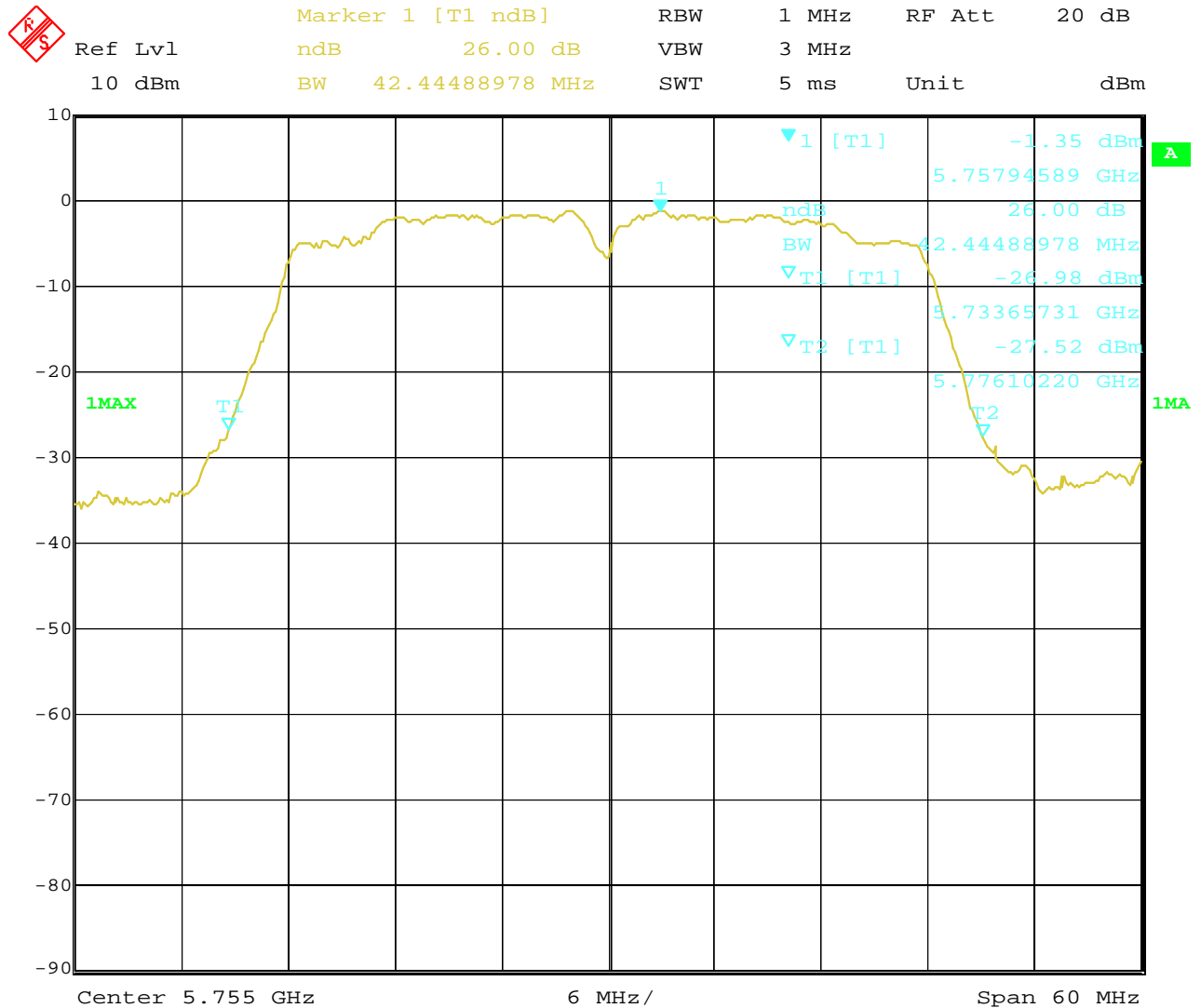
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

26dB Bandwidth

Channel 151



Date: 15.OCT.2021 18:07:47

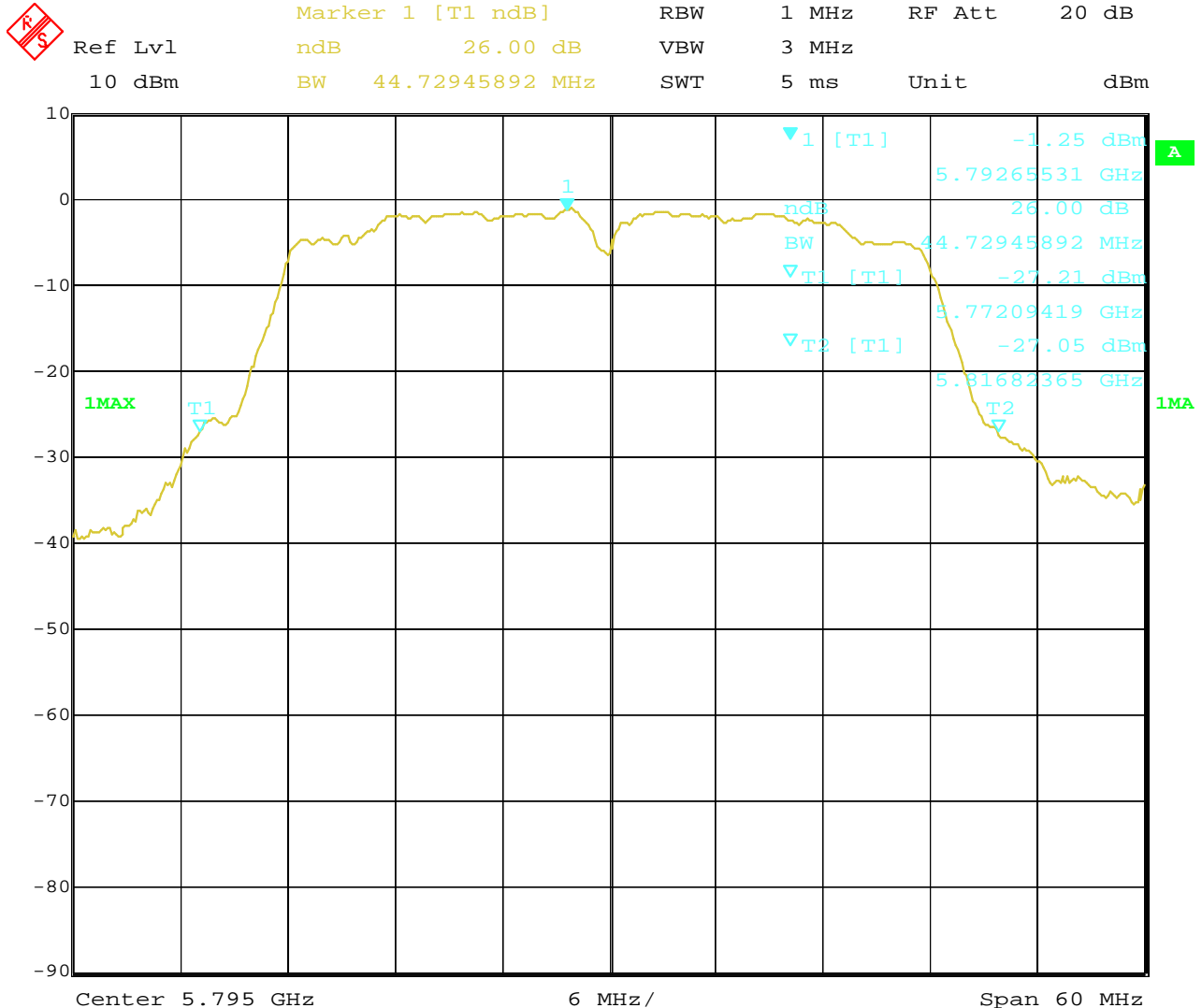
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Channel 159



Date: 15.OCT.2021 18:08:45

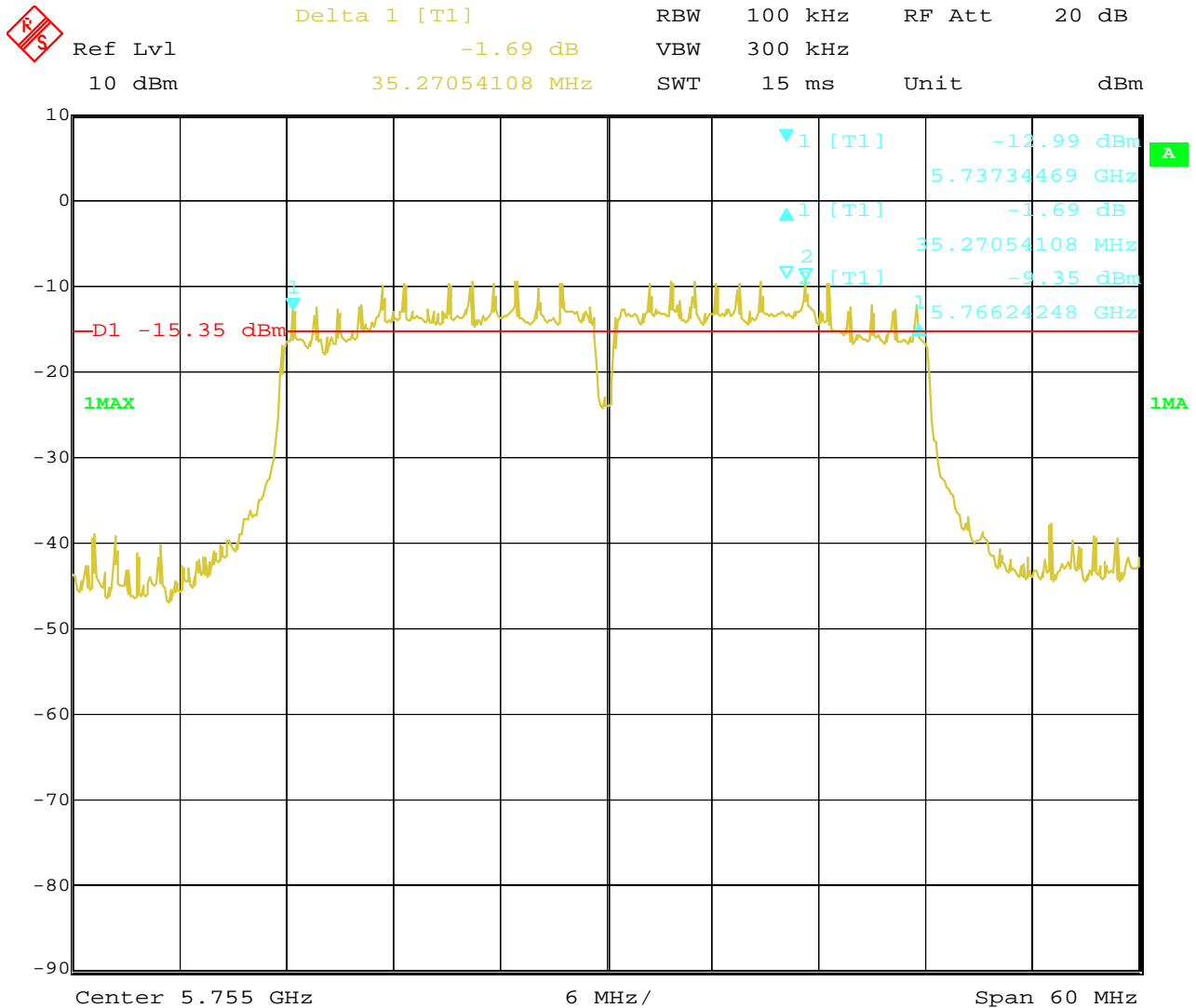
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Test Configure

6dB Bandwidth

Channel 151



Date: 15.OCT.2021 18:07:18

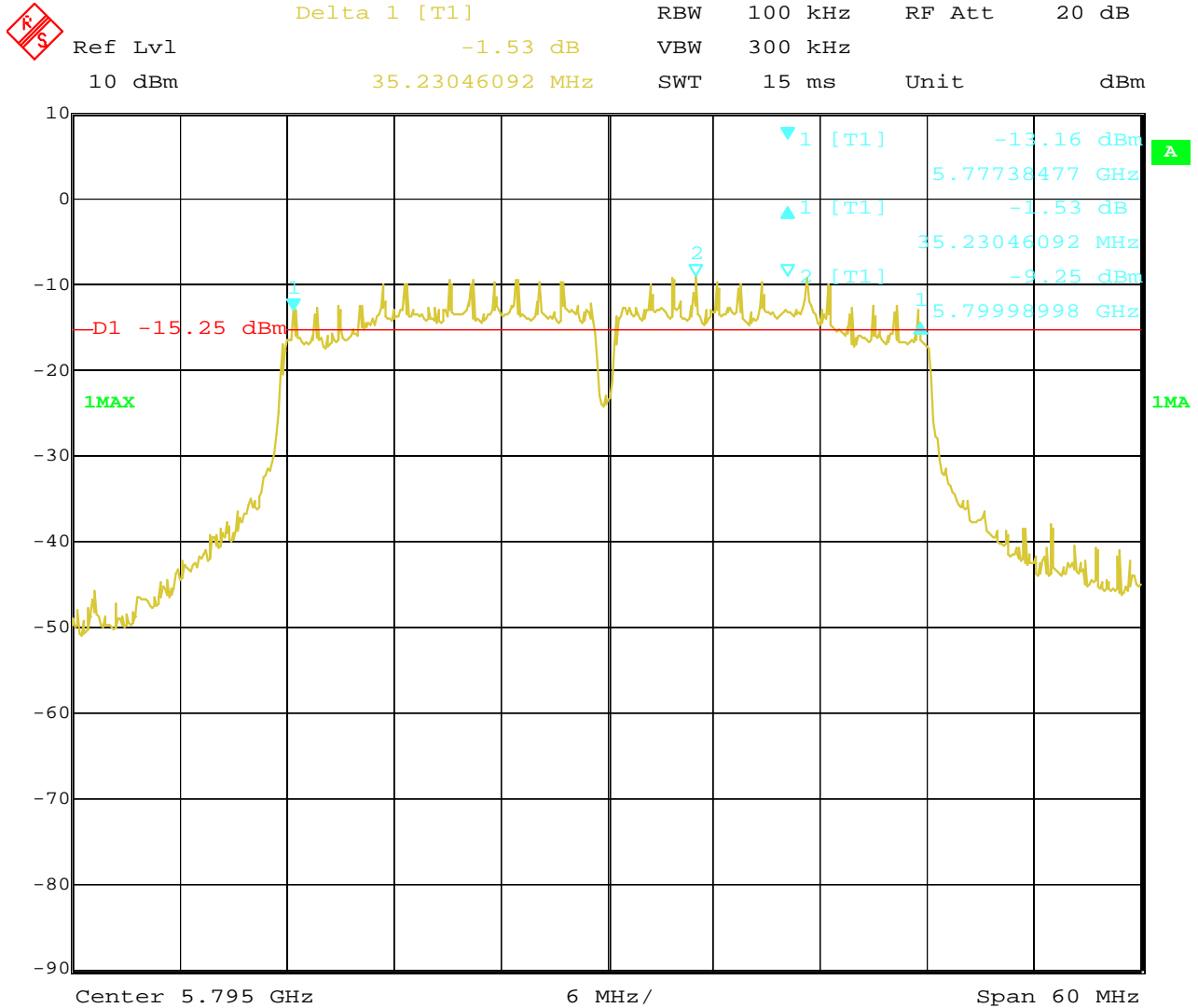
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Channel 159



Date: 15.OCT.2021 18:06:24

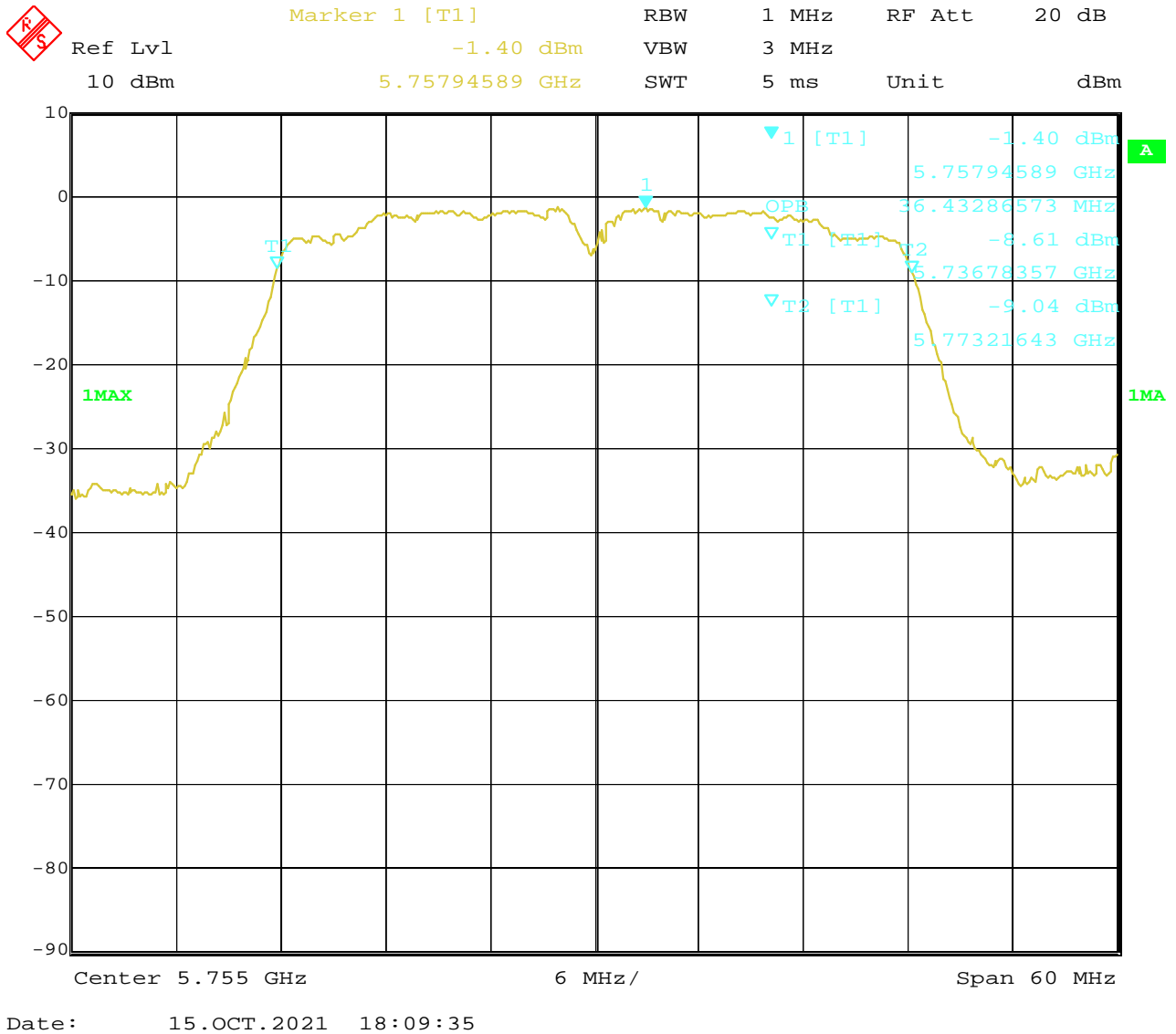
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Test Configure

99% Bandwidth

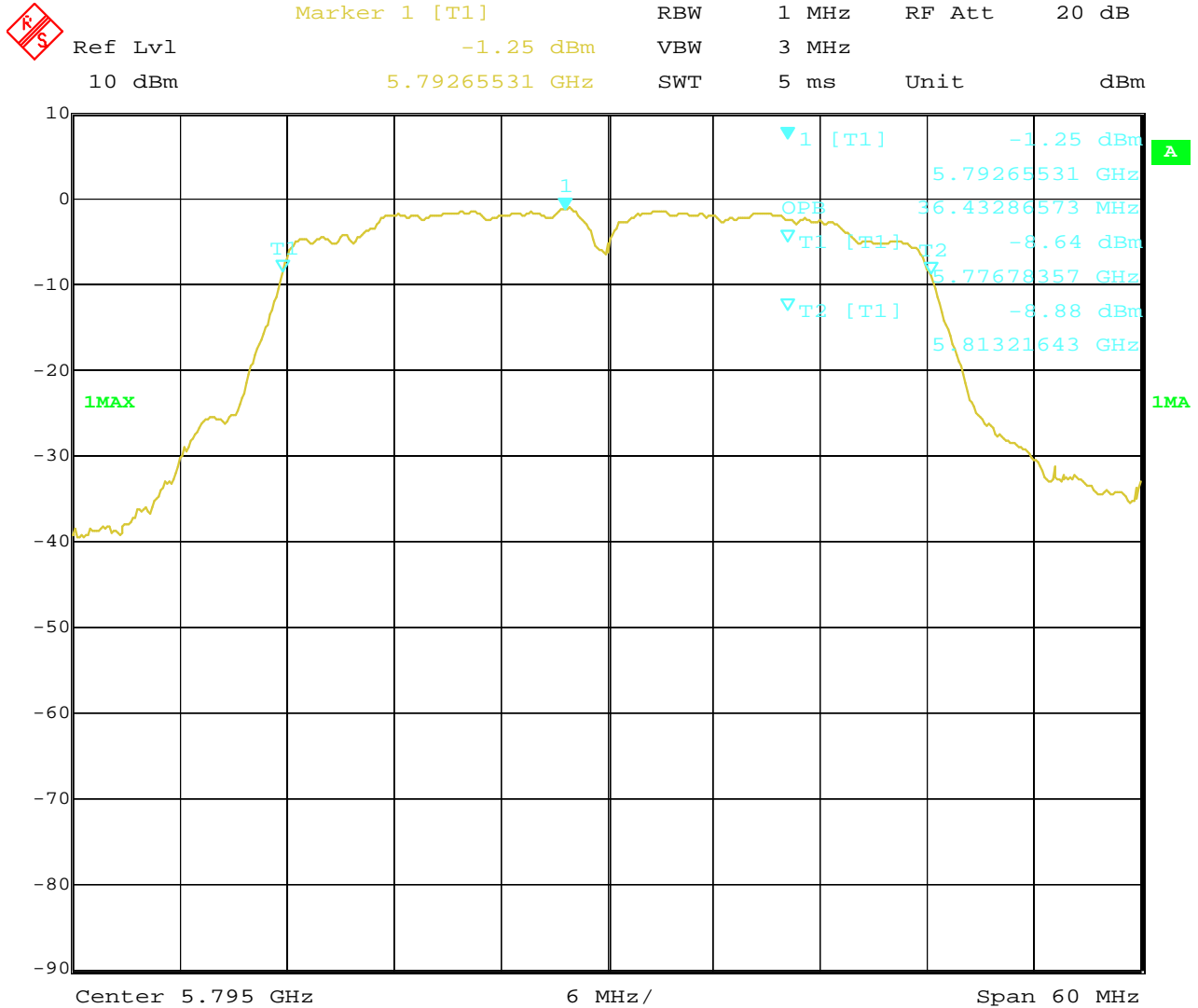
Channel 151



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Channel 159



Date: 15.OCT.2021 18:08:58

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EUT		Portable Notebook		Model	NP153GK-X
Mode		802.11ac VHT20		Input Voltage	DC7.6V
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	23.39	--	Pass
40	5200	mcs0	26.93	--	Pass
48	5240	mcs0	24.65	--	Pass
99% Bandwidth					
36	5180	mcs0	17.98	--	Pass
40	5200	mcs0	18.04	--	Pass
48	5240	mcs0	17.98	--	Pass

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26dB Bandwidth

Channel 36

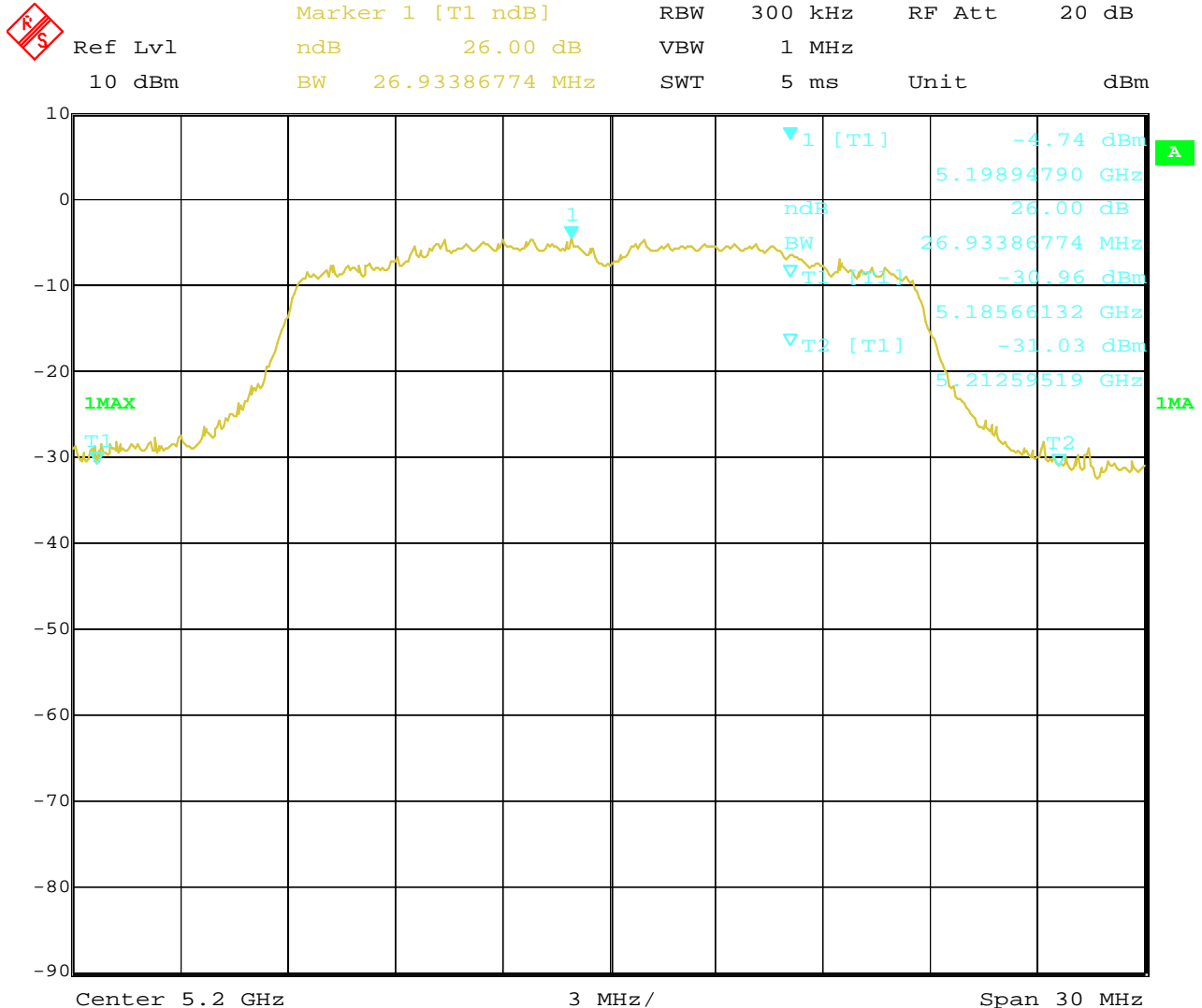


discussion or correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report, THE SHENZHEN TIMEWAY TESTING LABORATORIES reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Channel 40

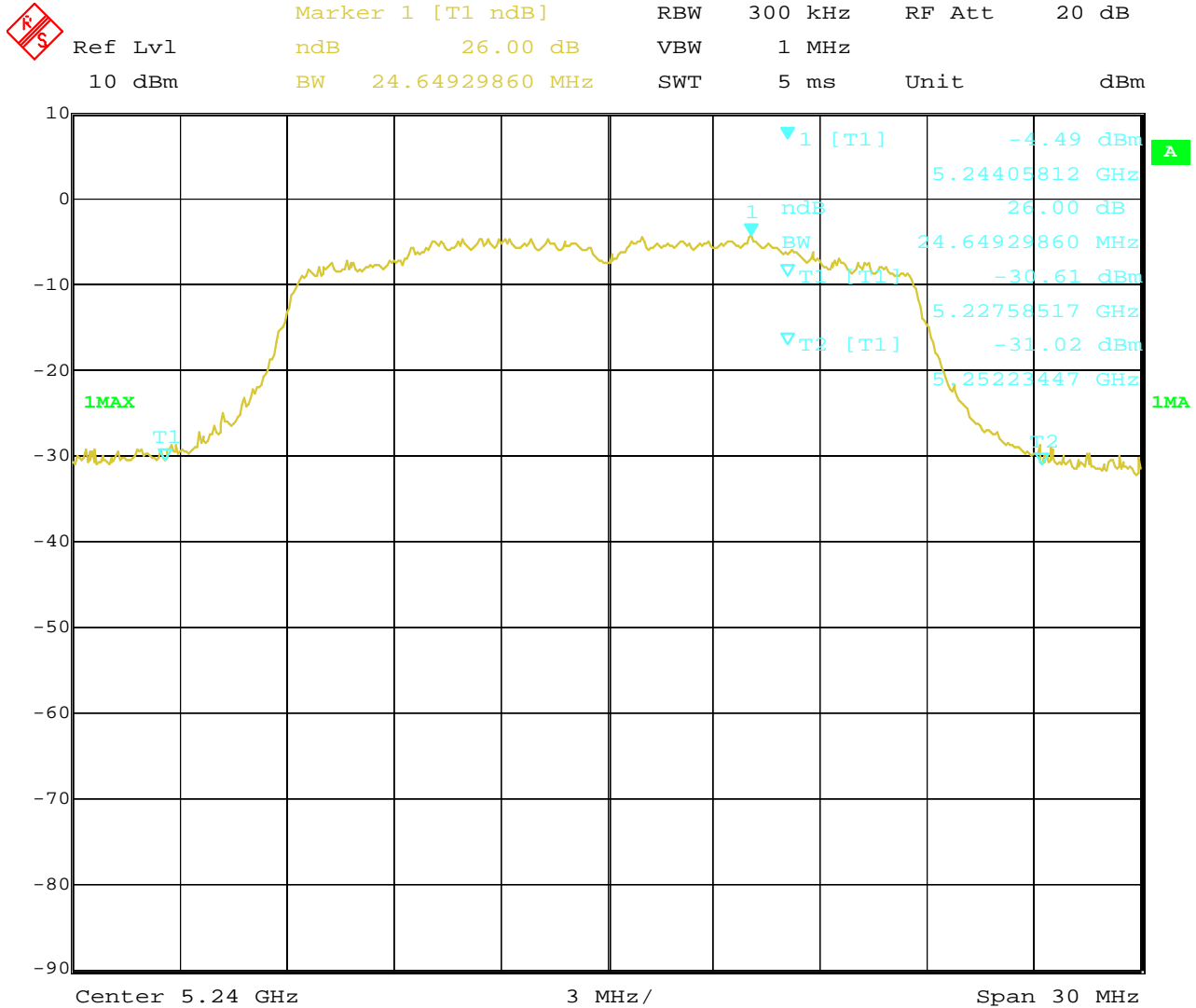


Date: 15.OCT.2021 13:30:13

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Channel 48



Date: 15.OCT.2021 13:33:14

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99% Bandwidth

Channel 36

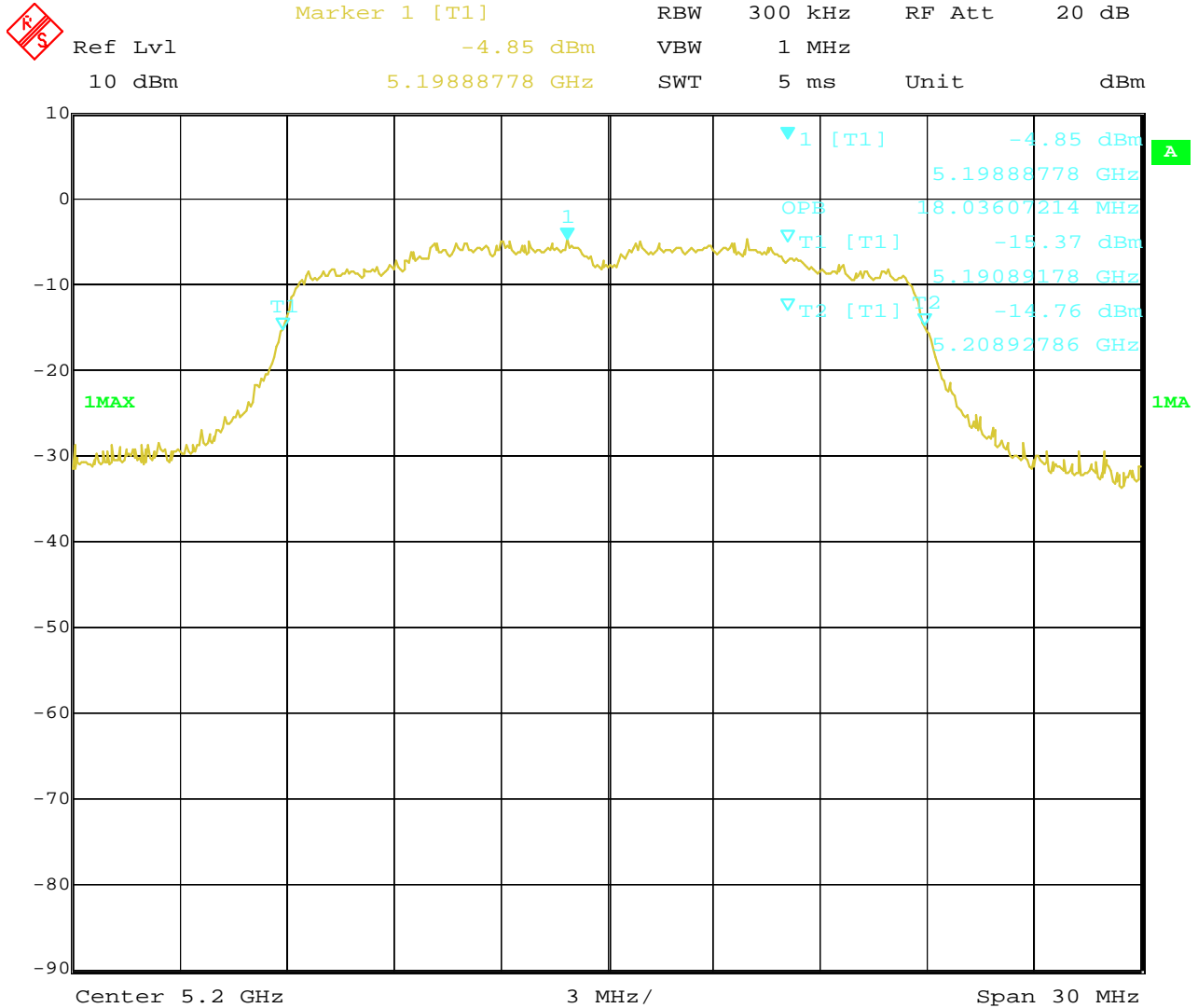


discussion or correspondence with any third party concerning the contents of the report.

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Channel 40



Date: 14.OCT.2021 17:50:45

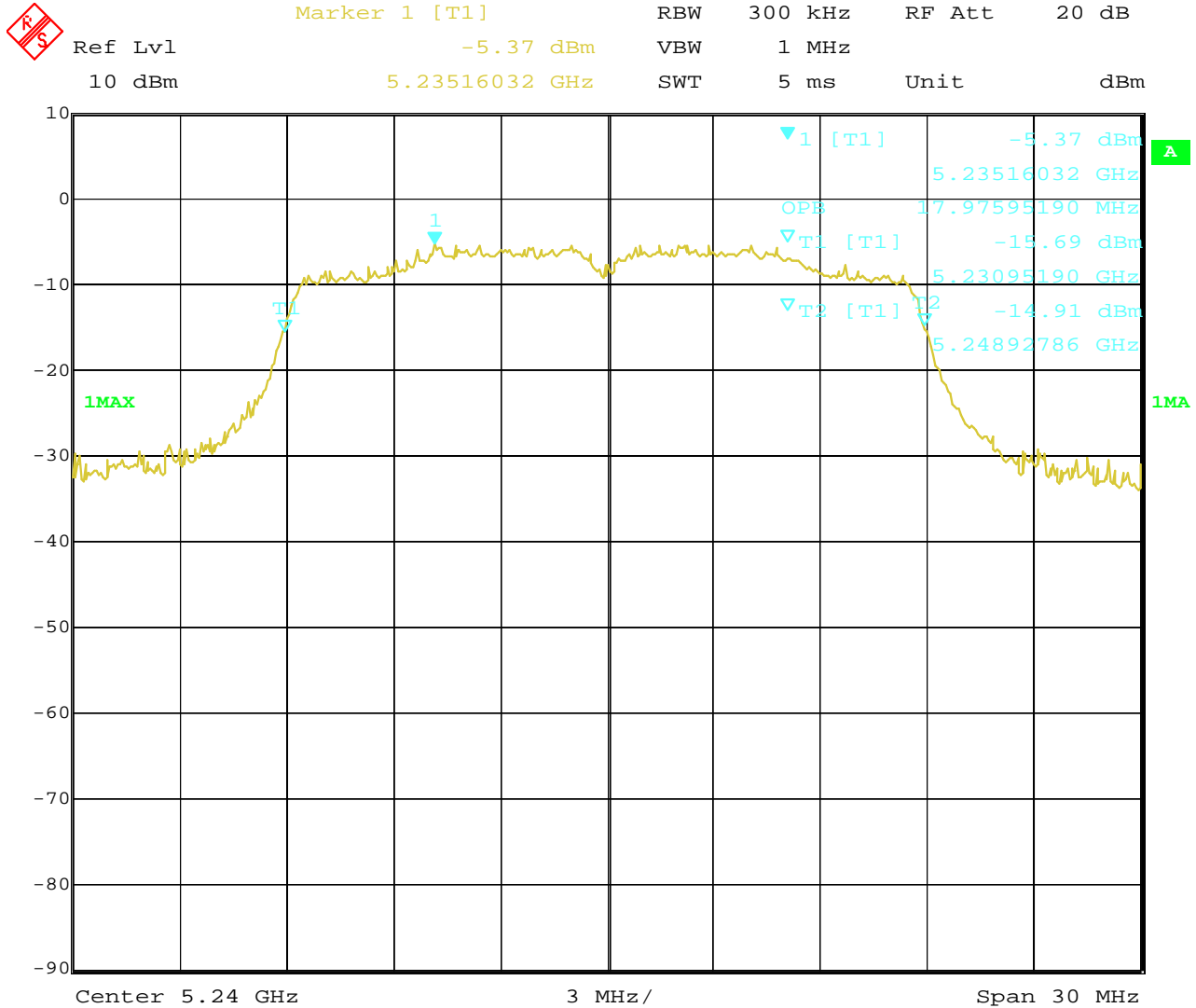
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Channel 48



Date: 14.OCT.2021 17:51:40

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EUT		Portable Notebook		Model	NP153GK-X
Mode		802.11ac VHT20		Input Voltage	DC7.6V
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	23.15	--	Pass
153	5765	6	22.73	--	Pass
165	5825	6	24.35	--	Pass
6dB Bandwidth					
149	5745	6	16.94	0.5	Pass
153	5765	6	16.74	0.5	Pass
165	5825	6	16.77	0.5	Pass
99% Bandwidth					
149	5745	6	17.92	--	Pass
153	5765	6	17.86	--	Pass
165	5825	6	18.04	--	Pass

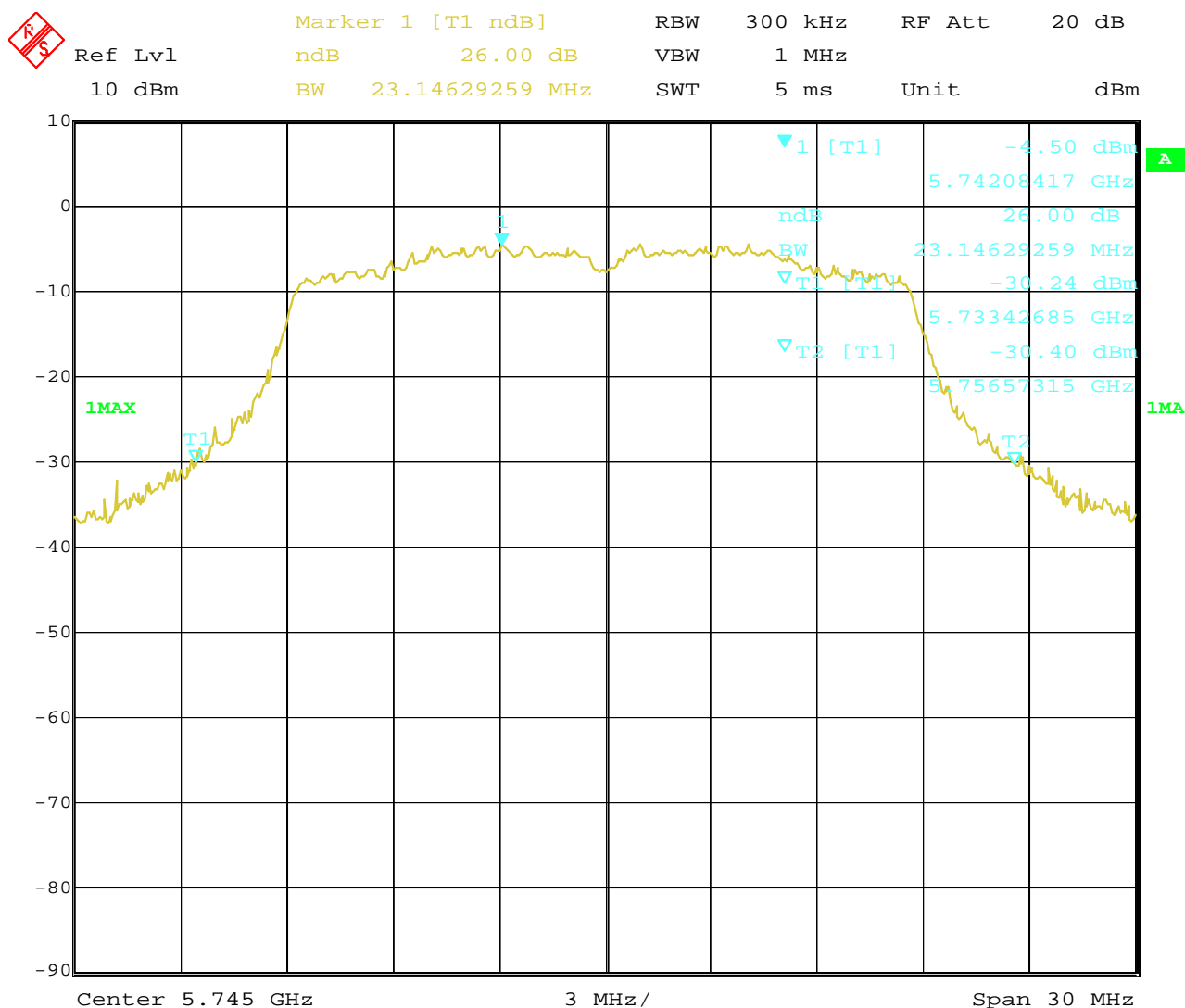
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26dB Bandwidth

Channel 149



Date: 15.OCT.2021 17:30:12

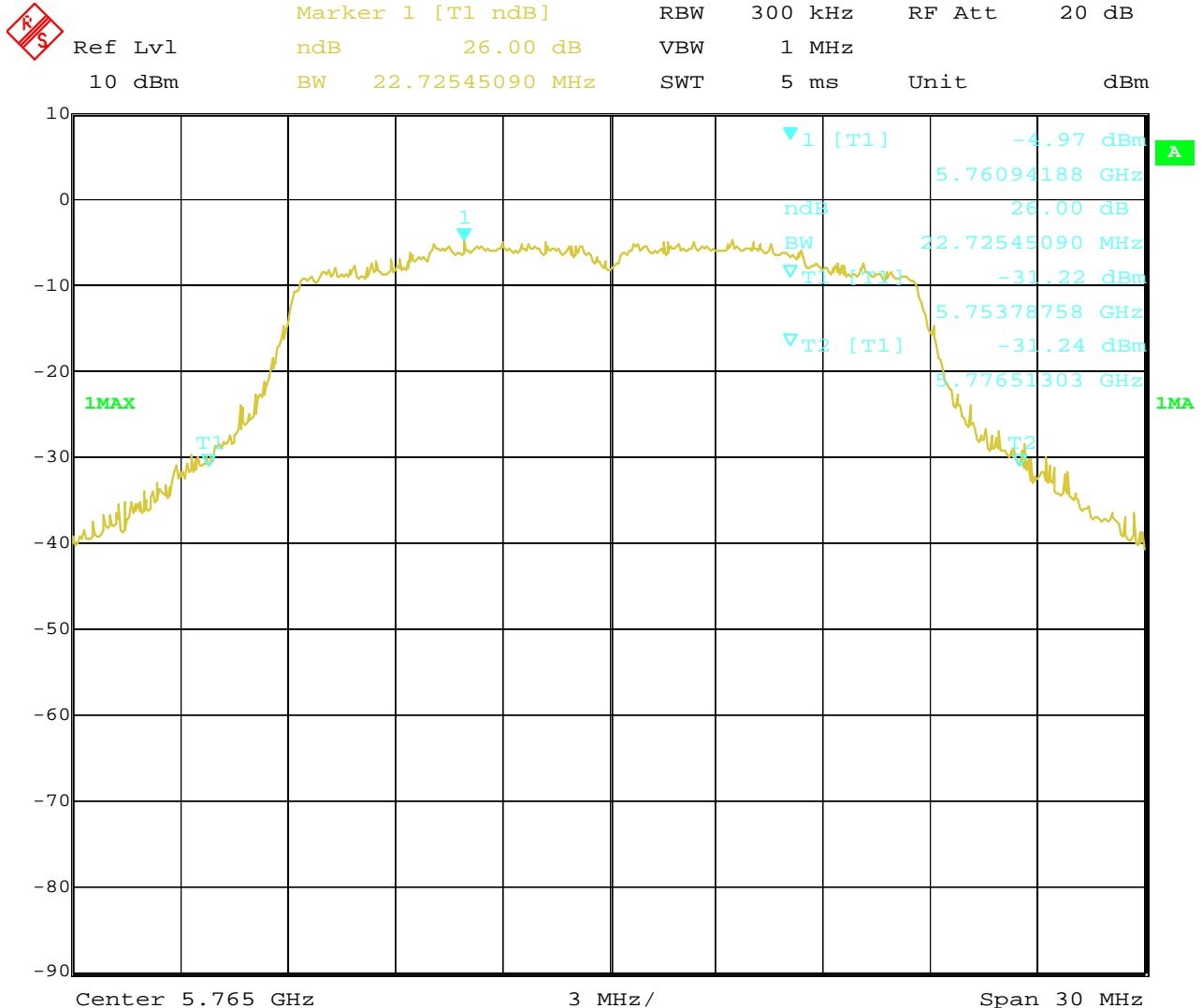
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Channel 153

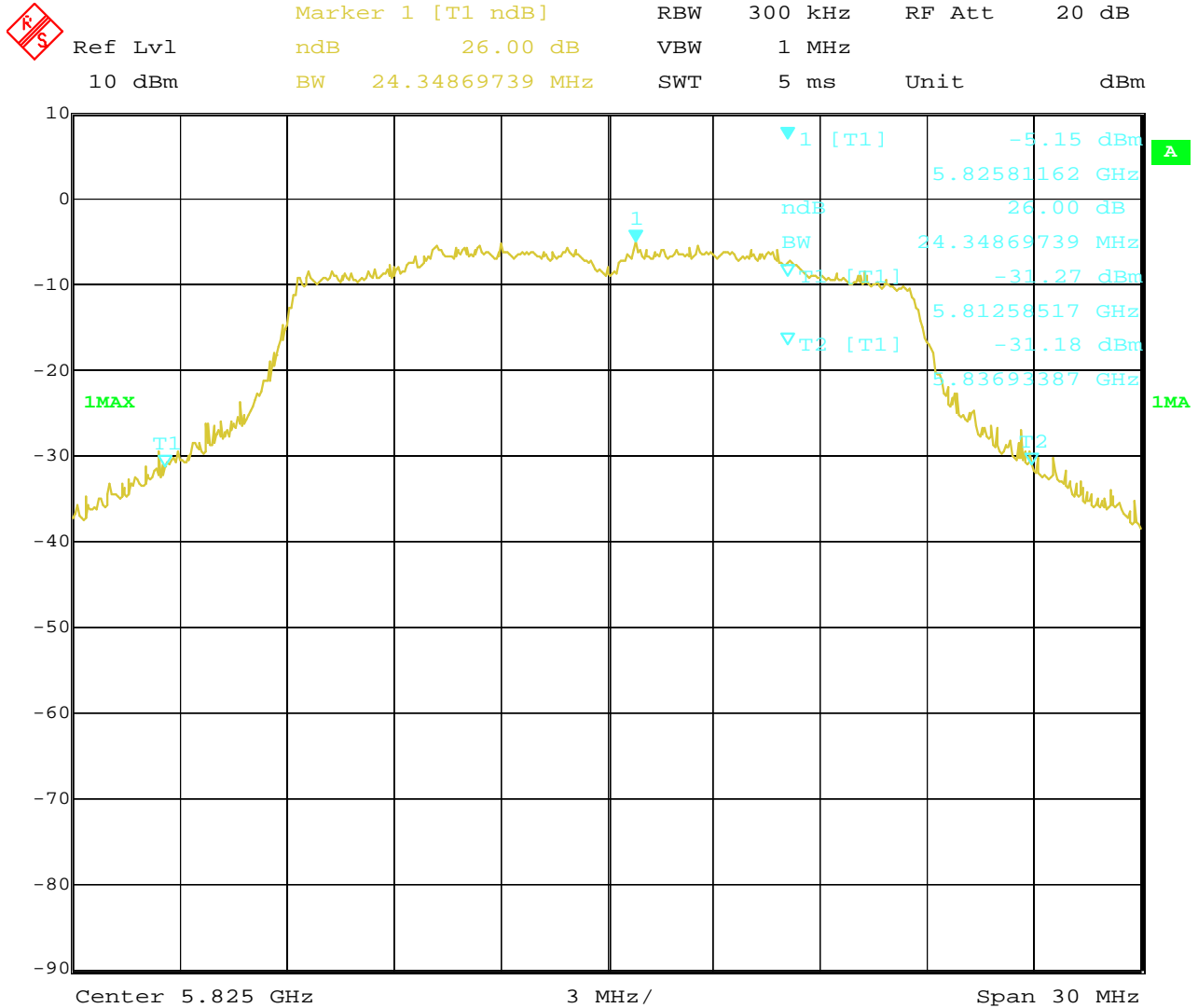


Date: 15.OCT.2021 17:40:49

The report refers only to the sample tested and does not apply to the bulk.
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Channel 165

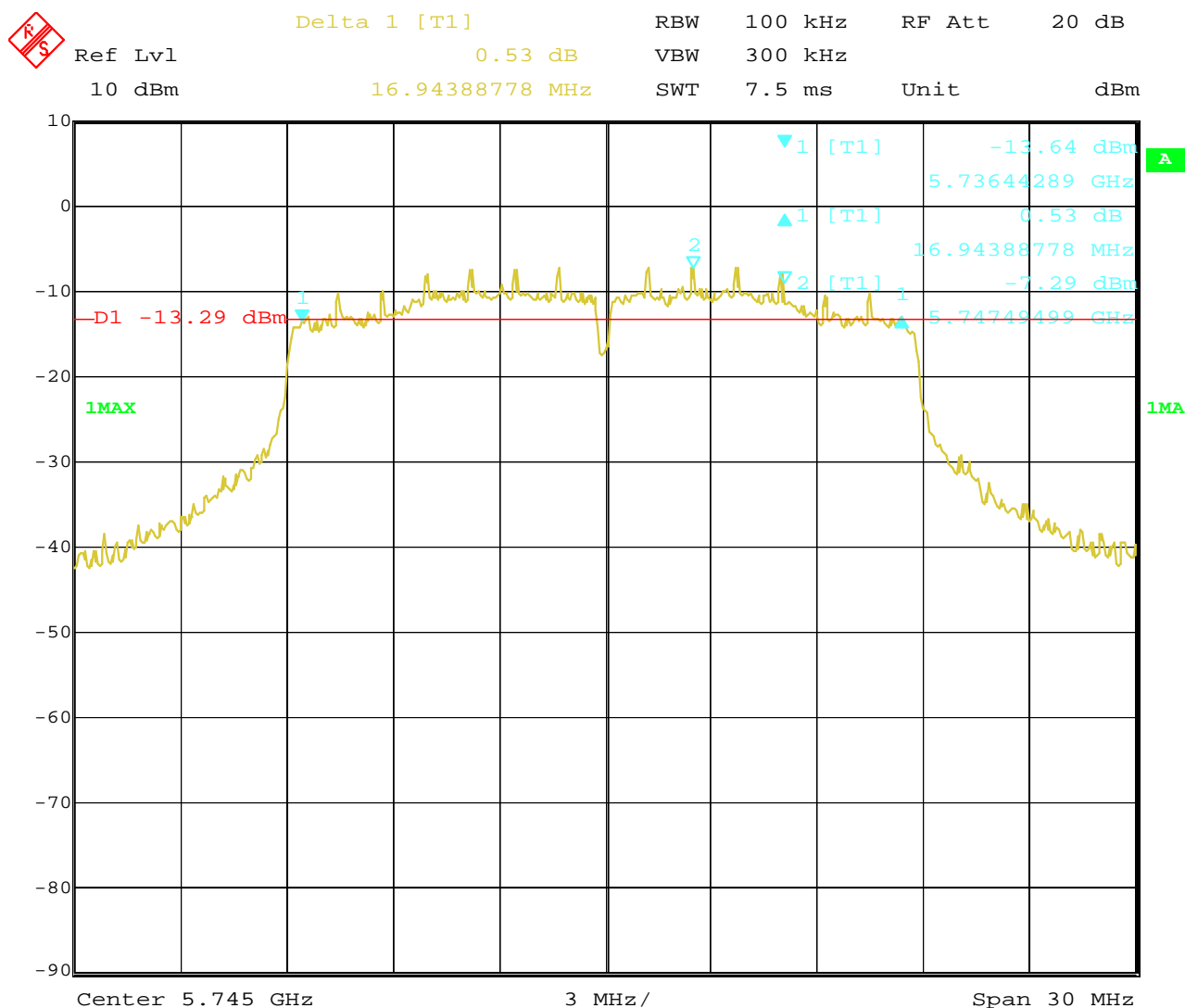


Date: 15.OCT.2021 17:39:20

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6dB Bandwidth

Channel 149



Date: 15.OCT.2021 17:27:53

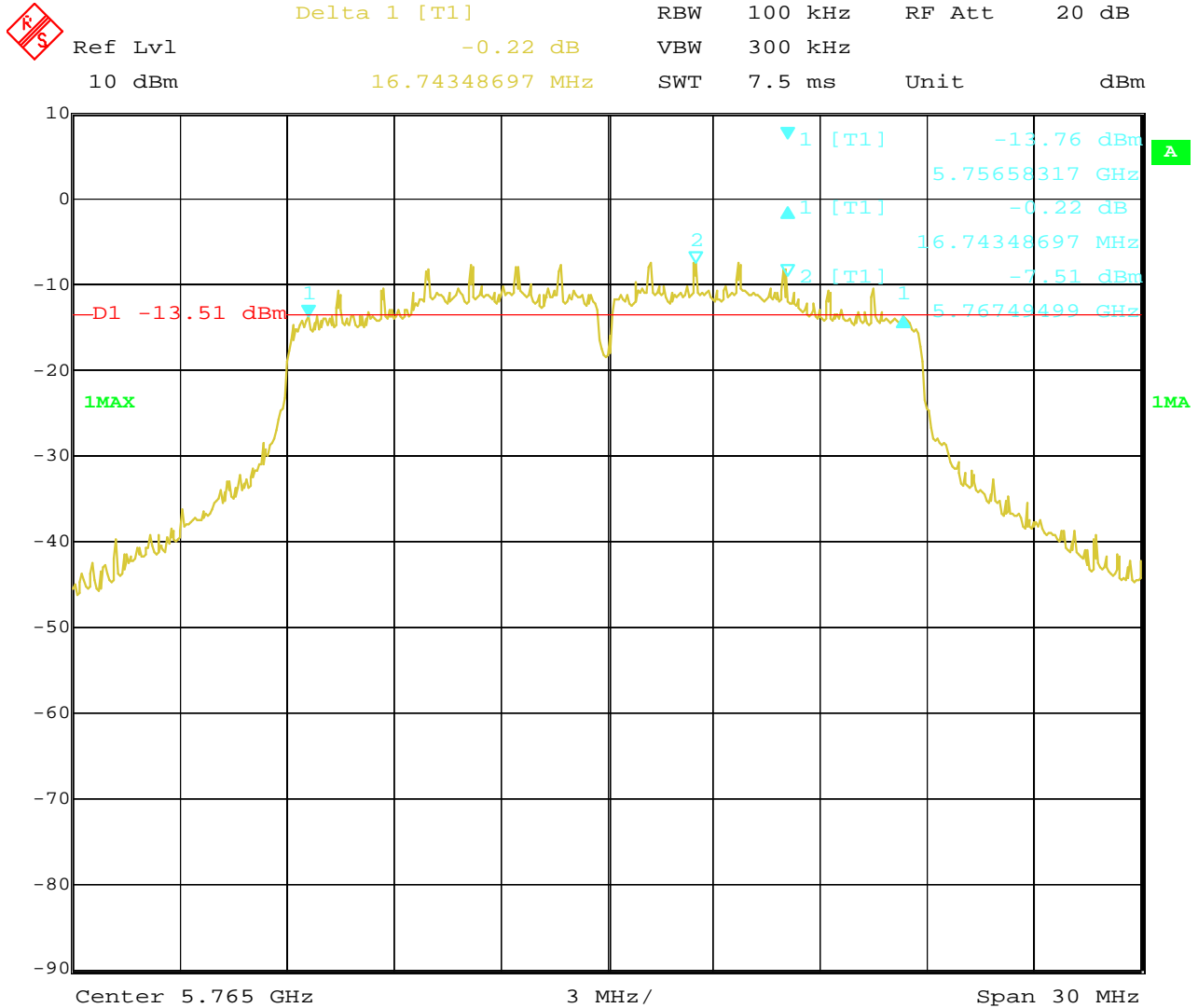
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Channel 153



Date: 15.OCT.2021 17:37:42

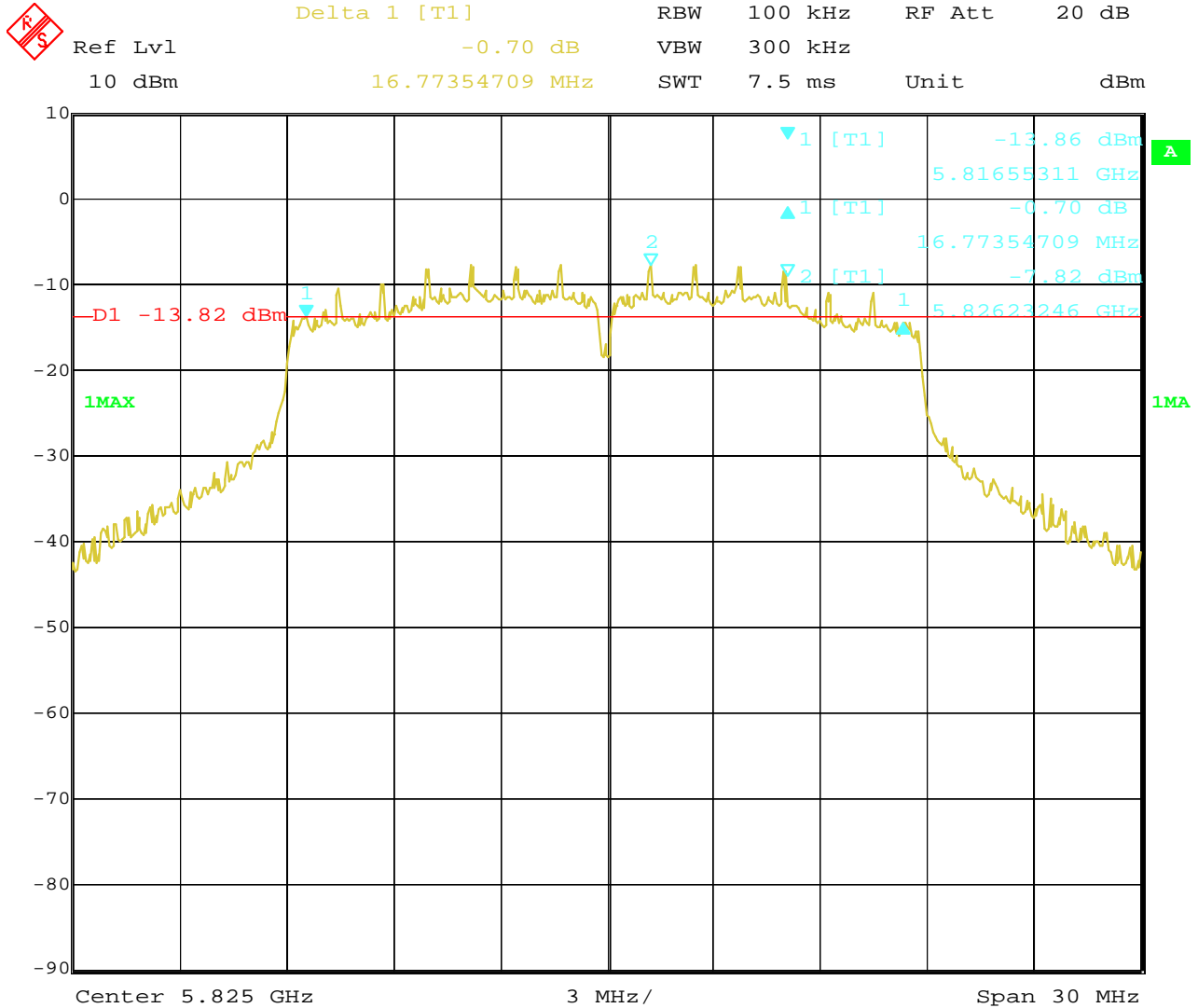
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Channel 165



Date: 15.OCT.2021 17:38:49

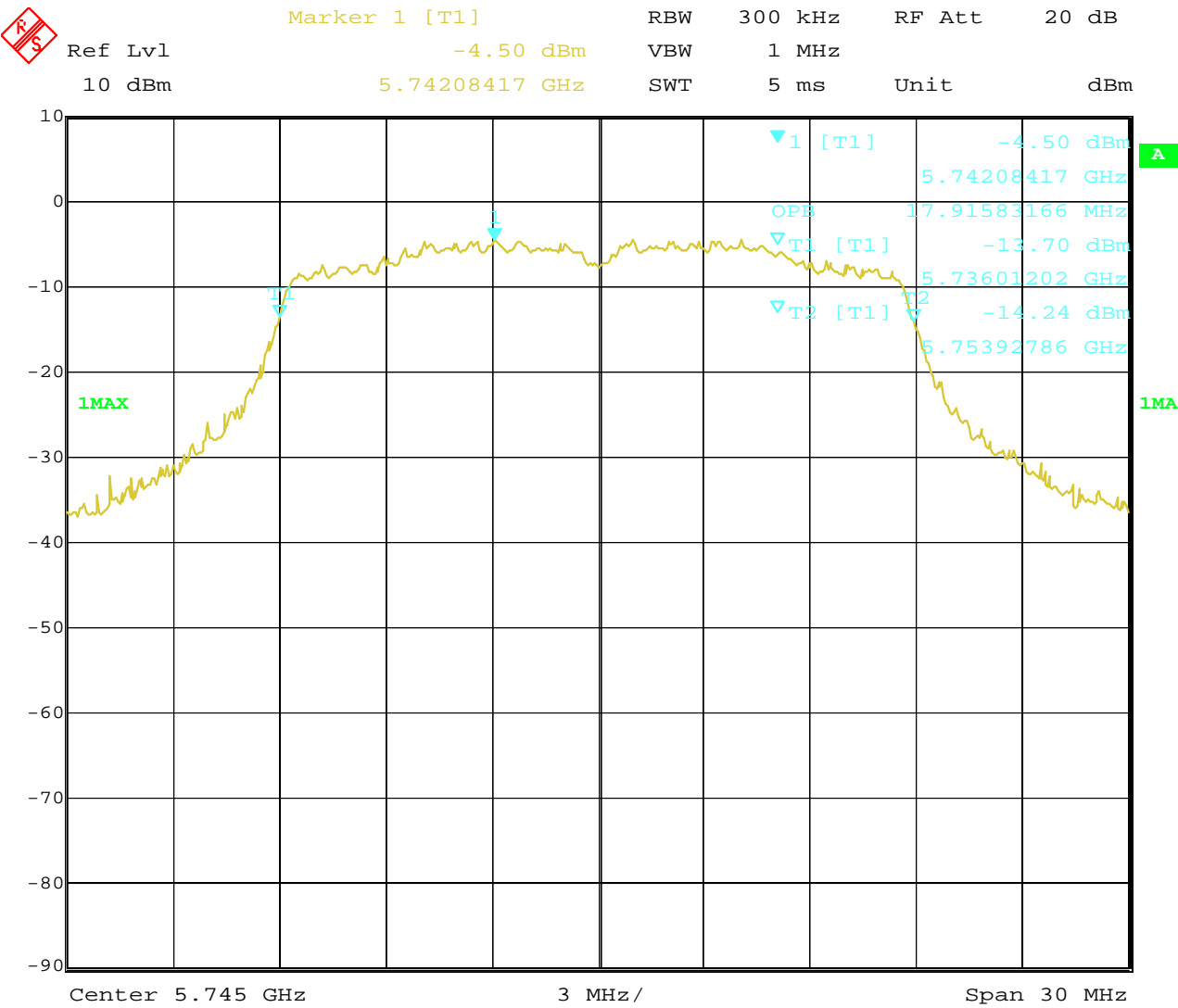
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Test Configure

99% Bandwidth

Channel 149

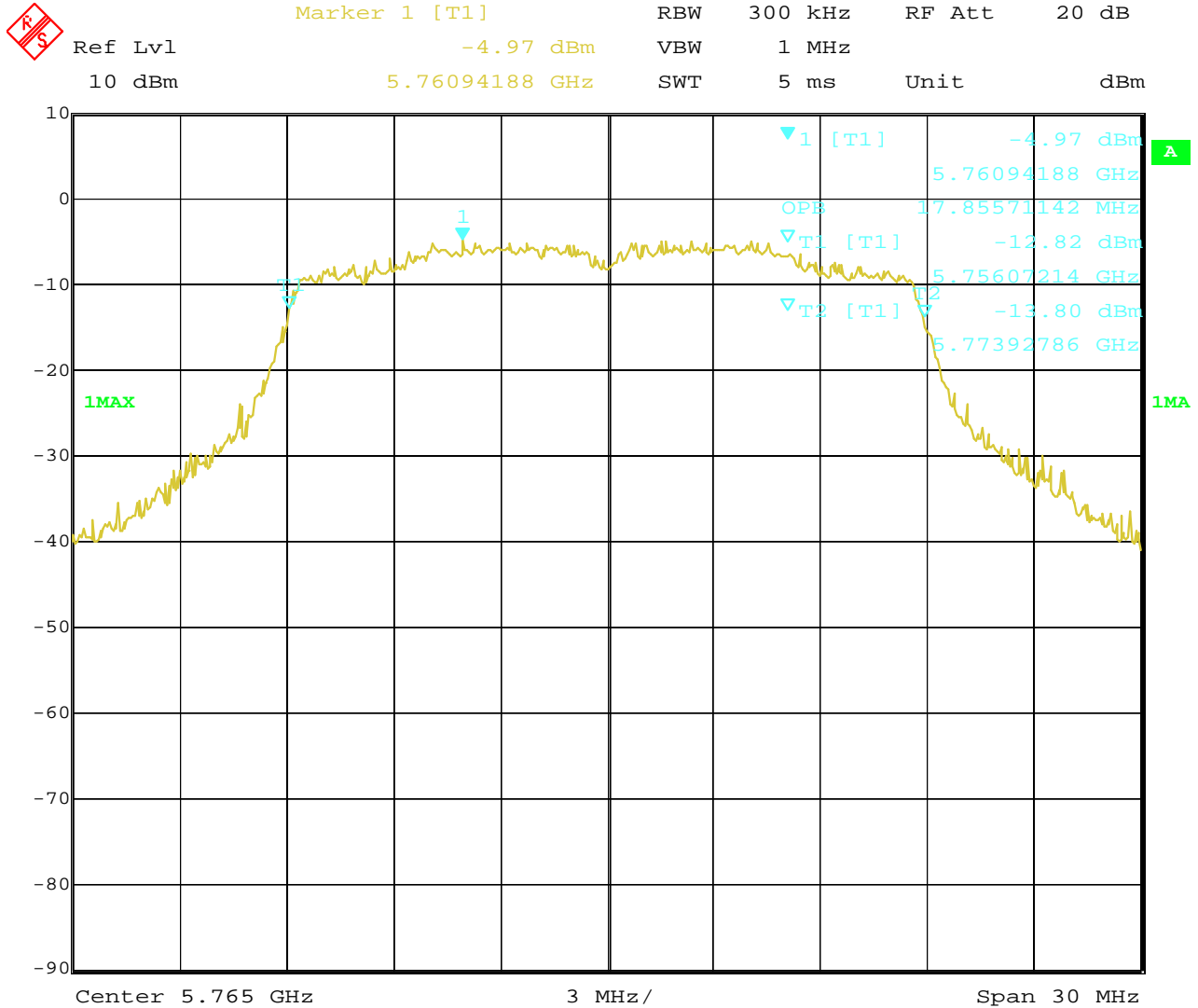


Date: 15.OCT.2021 17:30:31

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

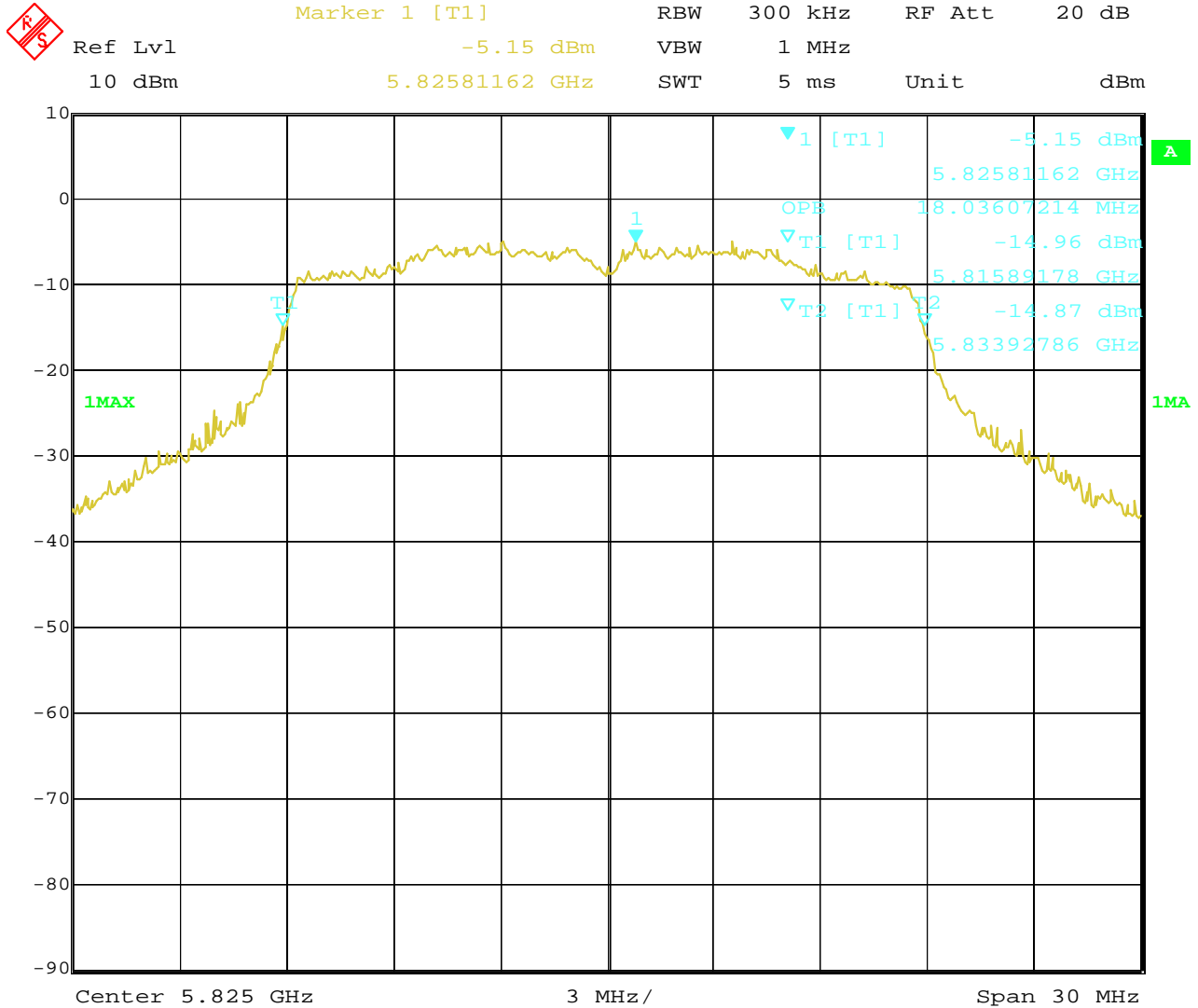


Date: 15.OCT.2021 17:40:37

The report refers only to the sample tested and does not apply to the bulk.
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Channel 165



Date: 15.OCT.2021 17:39:35

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EUT	Portable Notebook		Model	NP153GK-X	
Mode	802.11ac VHT40		Input Voltage	DC7.6V	
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	43.65	--	Pass
46	5230	mcs0	42.81	--	Pass
99% Bandwidth					
38	5190	mcs0	36.55	--	Pass
46	5230	mcs0	37.03	--	Pass

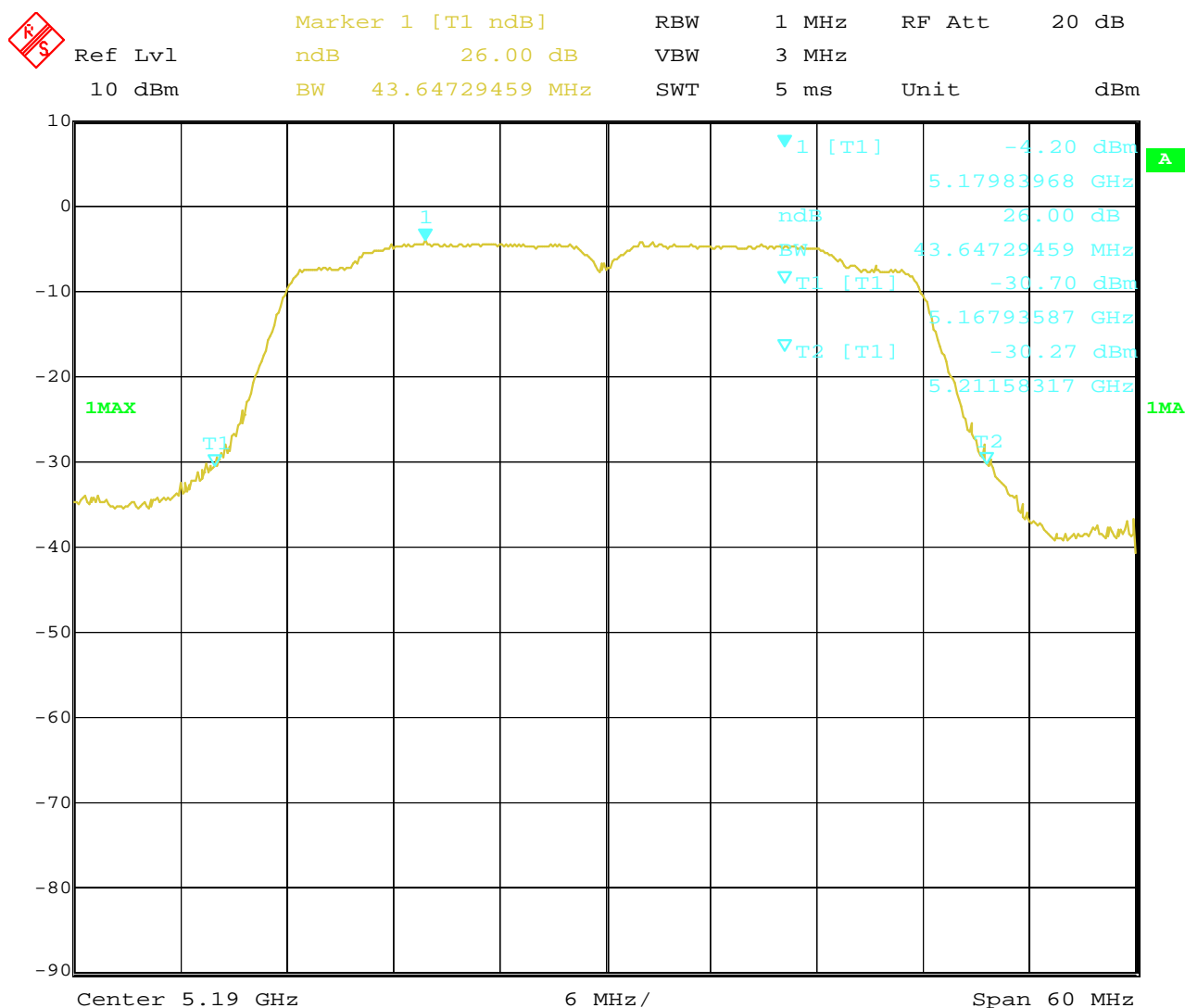
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26dB Bandwidth

Channel 38



Date: 15.OCT.2021 13:36:57

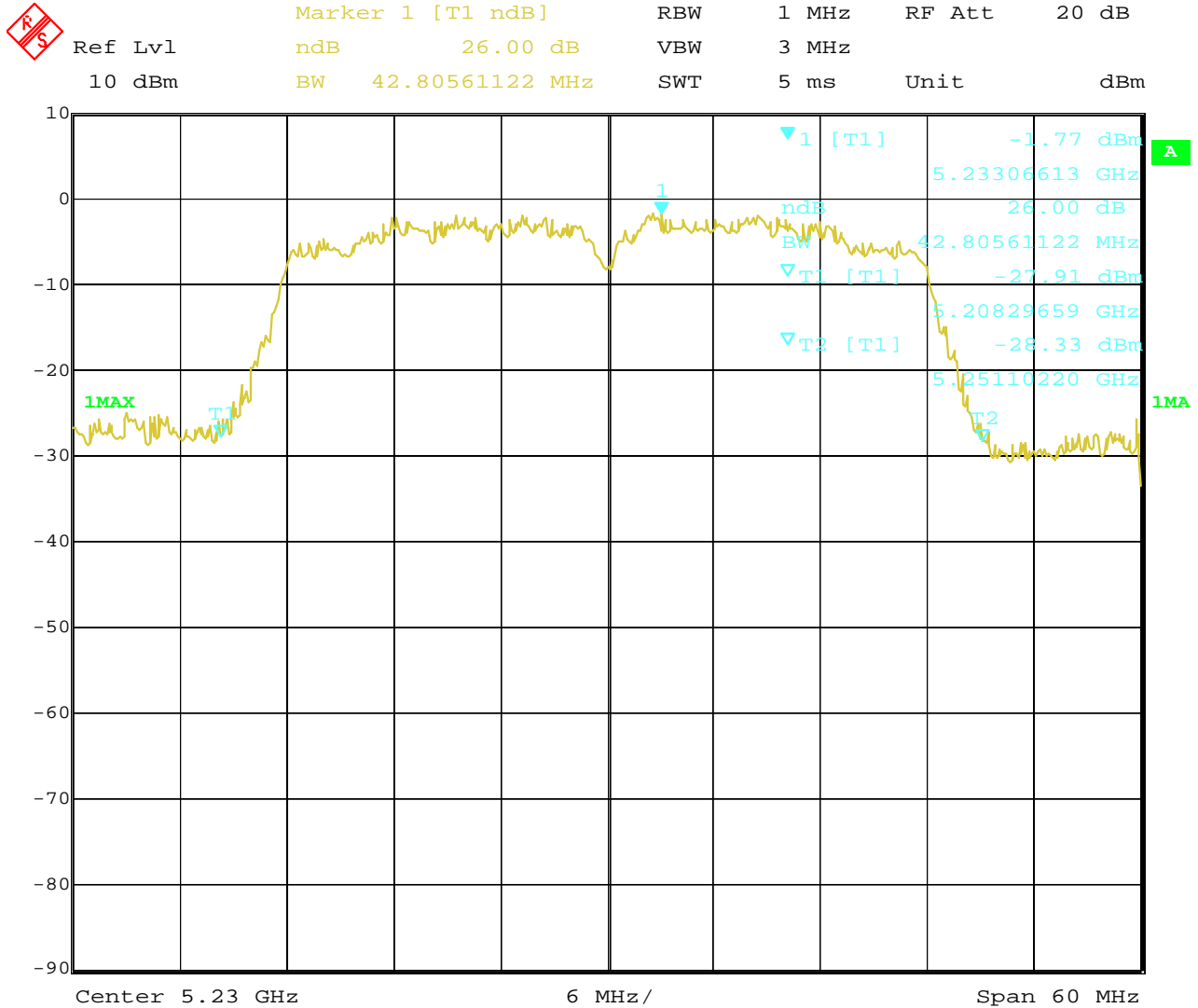
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Channel 46



Date: 15.OCT.2021 13:42:08

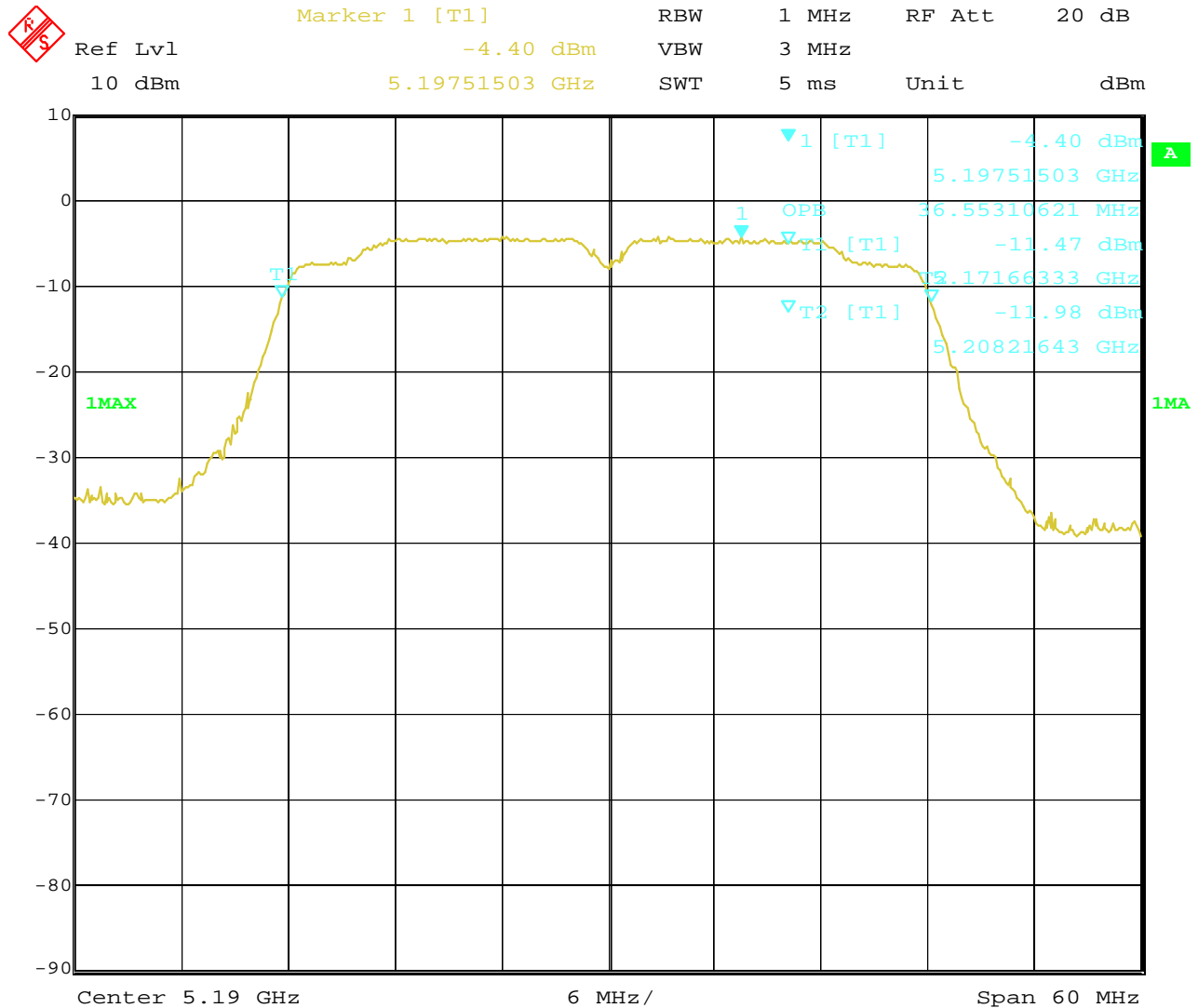
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Test Configure

99% Bandwidth

Channel 38



Date: 15.OCT.2021 10:55:34

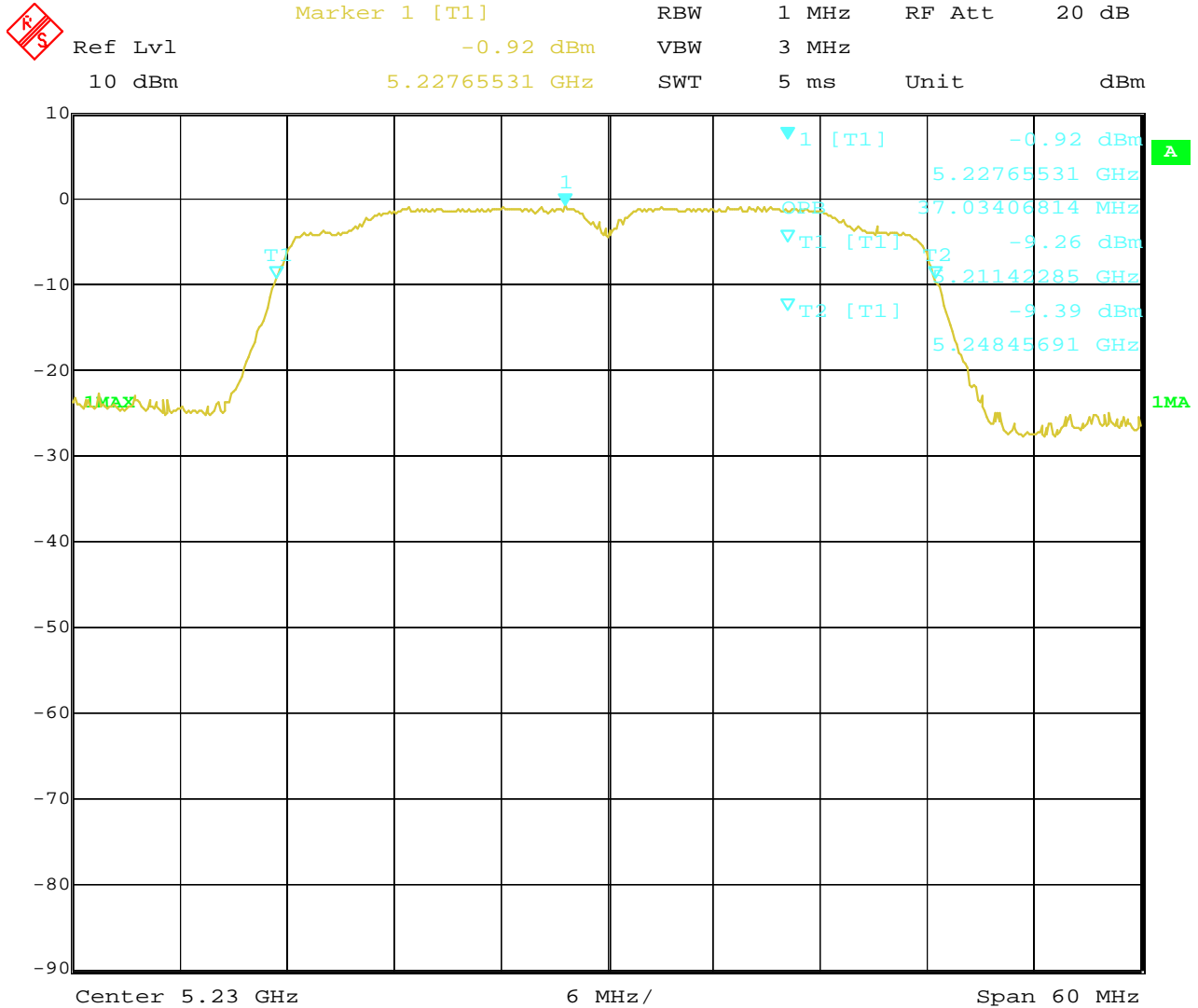
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Channel 46



Date: 15.OCT.2021 10:46:01

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EUT		Portable Notebook		Model	NP153GK-X
Mode		802.11ac VHT40		Input Voltage	DC7.6V
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	42.93	--	Pass
159	5795	mcs0	44.25	--	Pass
6dB Bandwidth					
151	5755	mcs0	35.27	0.5	Pass
159	5795	mcs0	35.23	0.5	Pass
99% Bandwidth					
151	5755	mcs0	36.43	--	Pass
159	5795	mcs0	36.43	--	Pass

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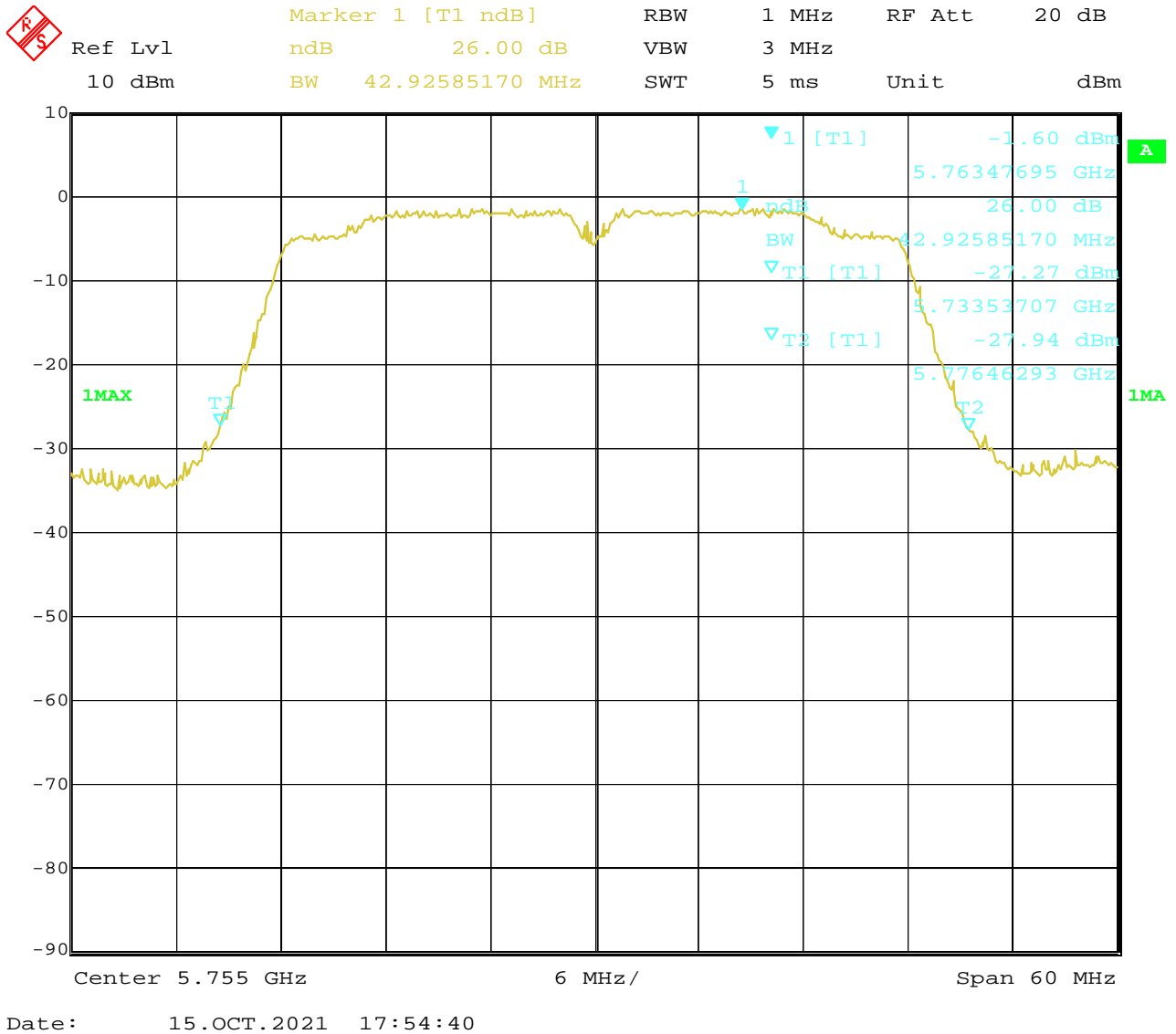
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

26dB Bandwidth

Channel 151



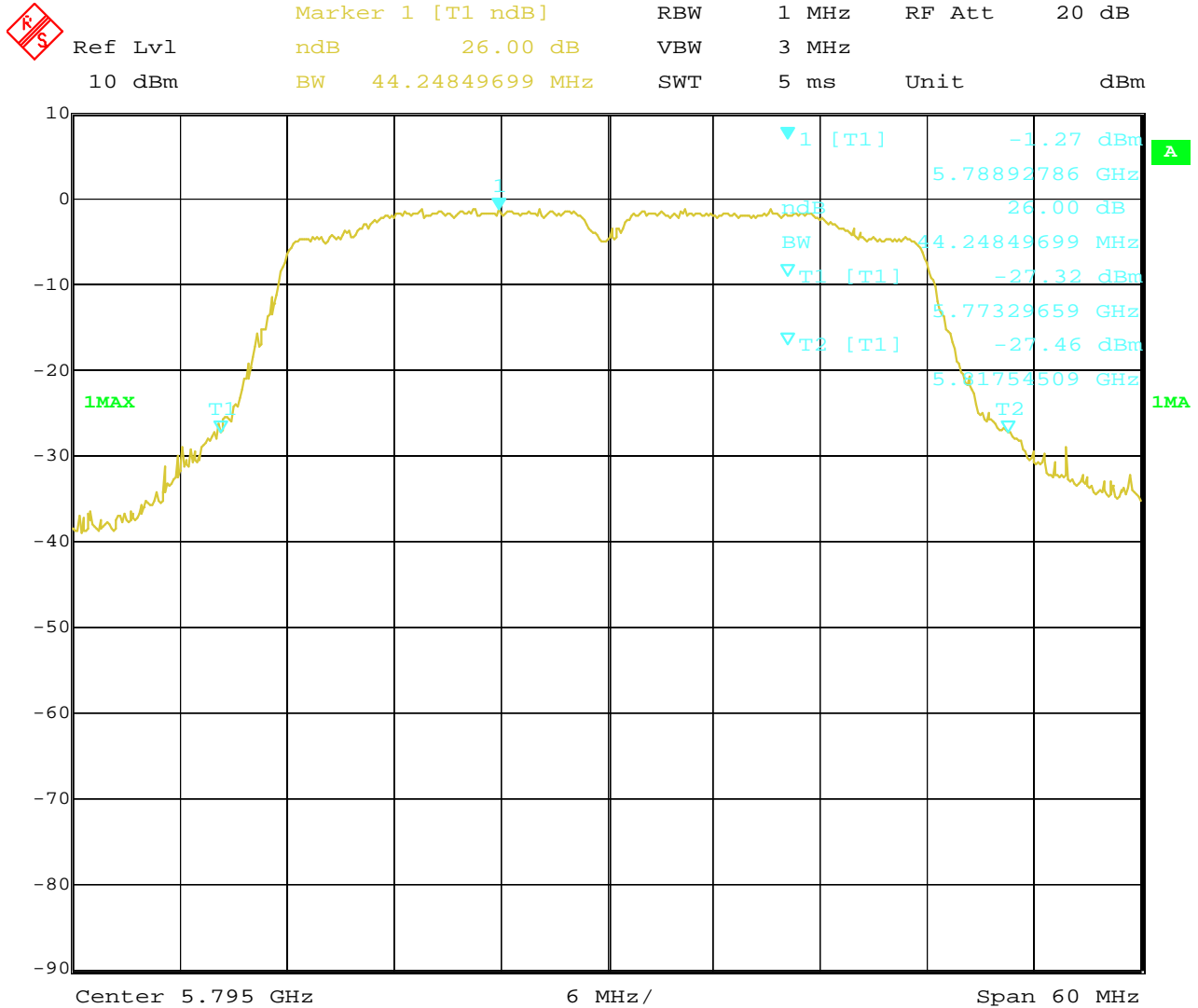
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Channel 159



Date: 15.OCT.2021 17:55:54

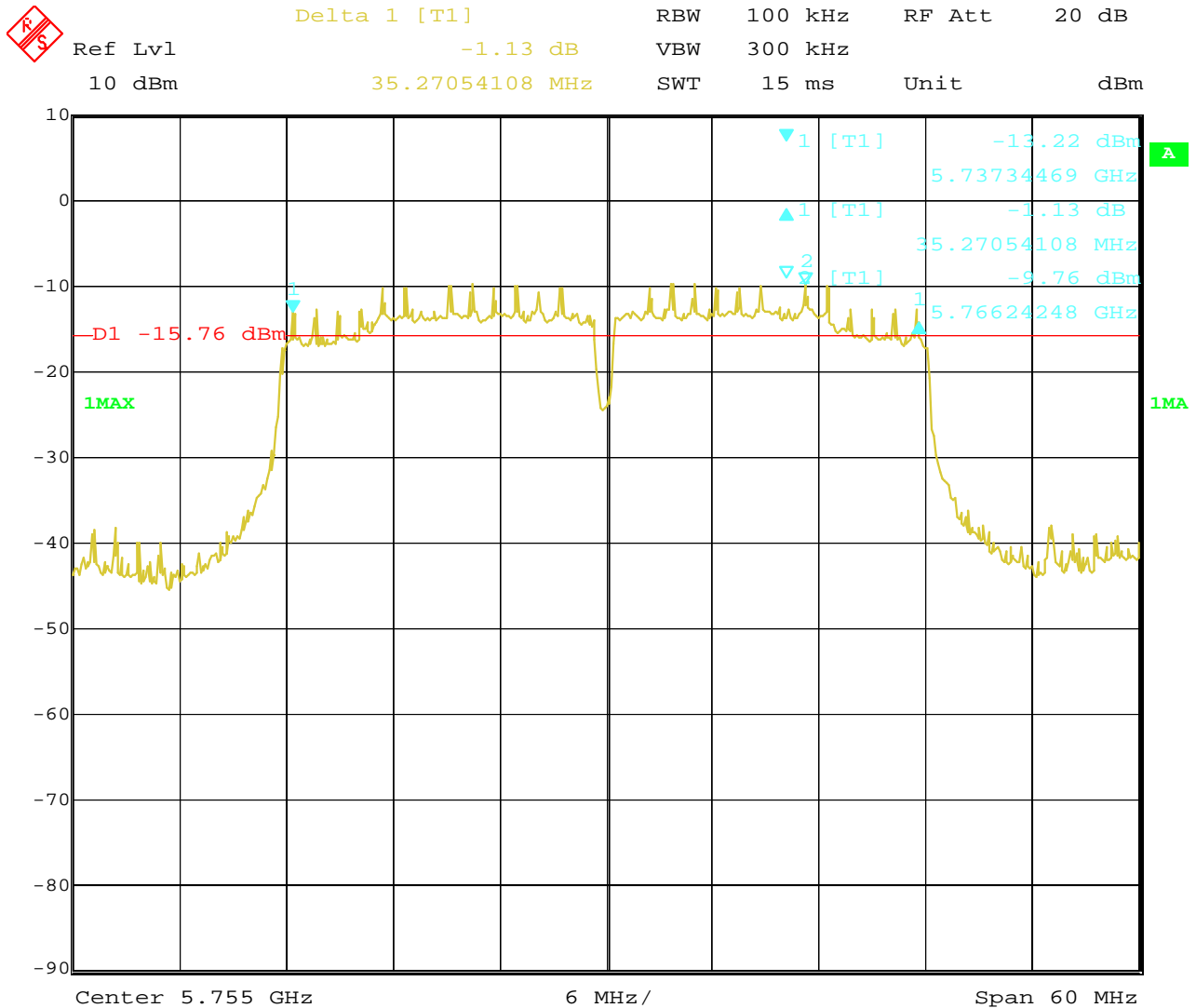
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Test Configure

6dB Bandwidth

Channel 151



Date: 15.OCT.2021 17:54:06

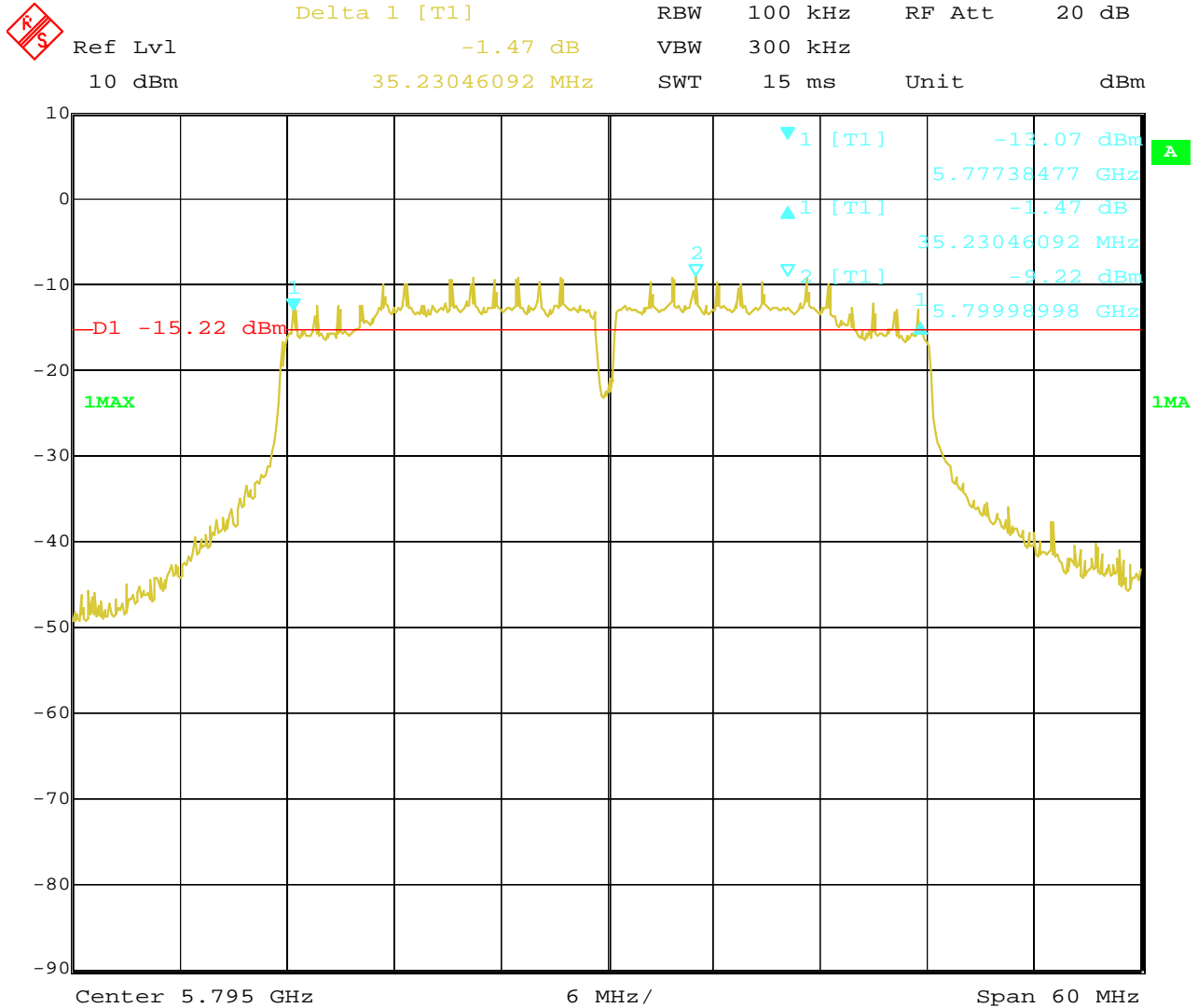
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Channel 159



Date: 15.OCT.2021 17:53:06

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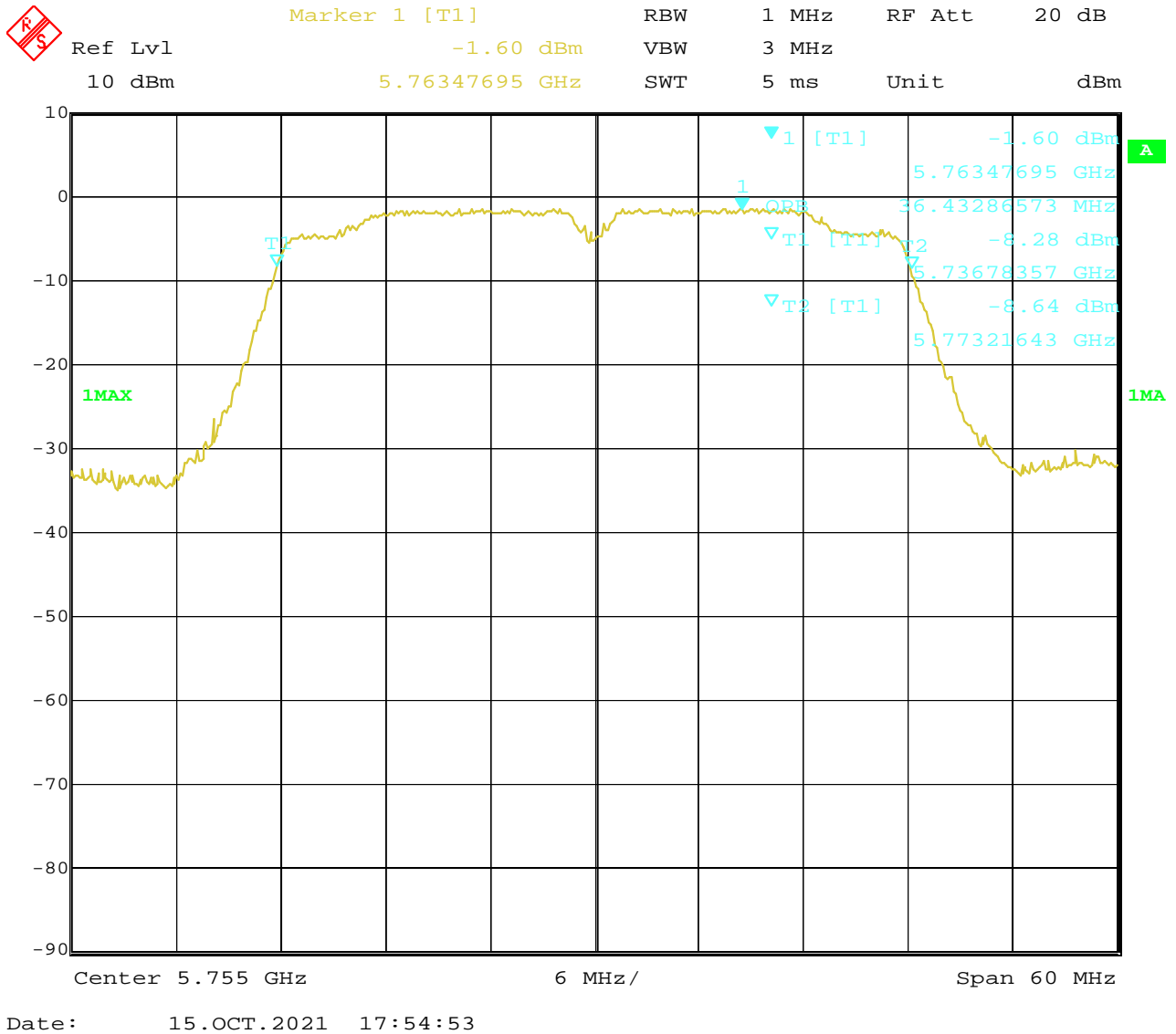
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Test Configure

99% Bandwidth

Channel 151



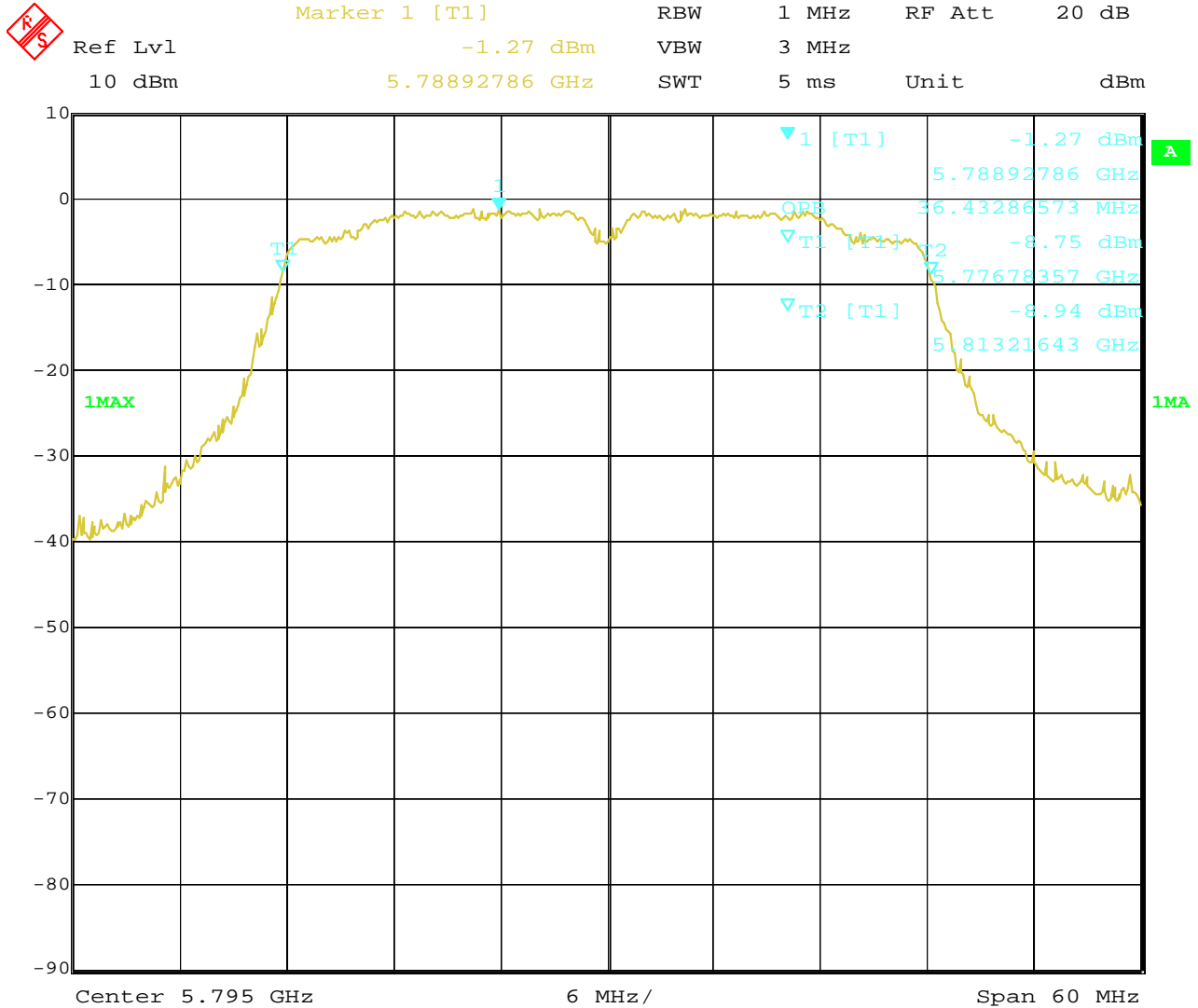
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Channel 159



Date: 15.OCT.2021 17:55:38

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EUT		Portable Notebook		Model	NP153GK-X
Mode		802.11ac VHT80		Input Voltage	DC7.6V
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	93.79	--	Pass
99% Bandwidth					
42	5210	mcs0	75.99	--	Pass

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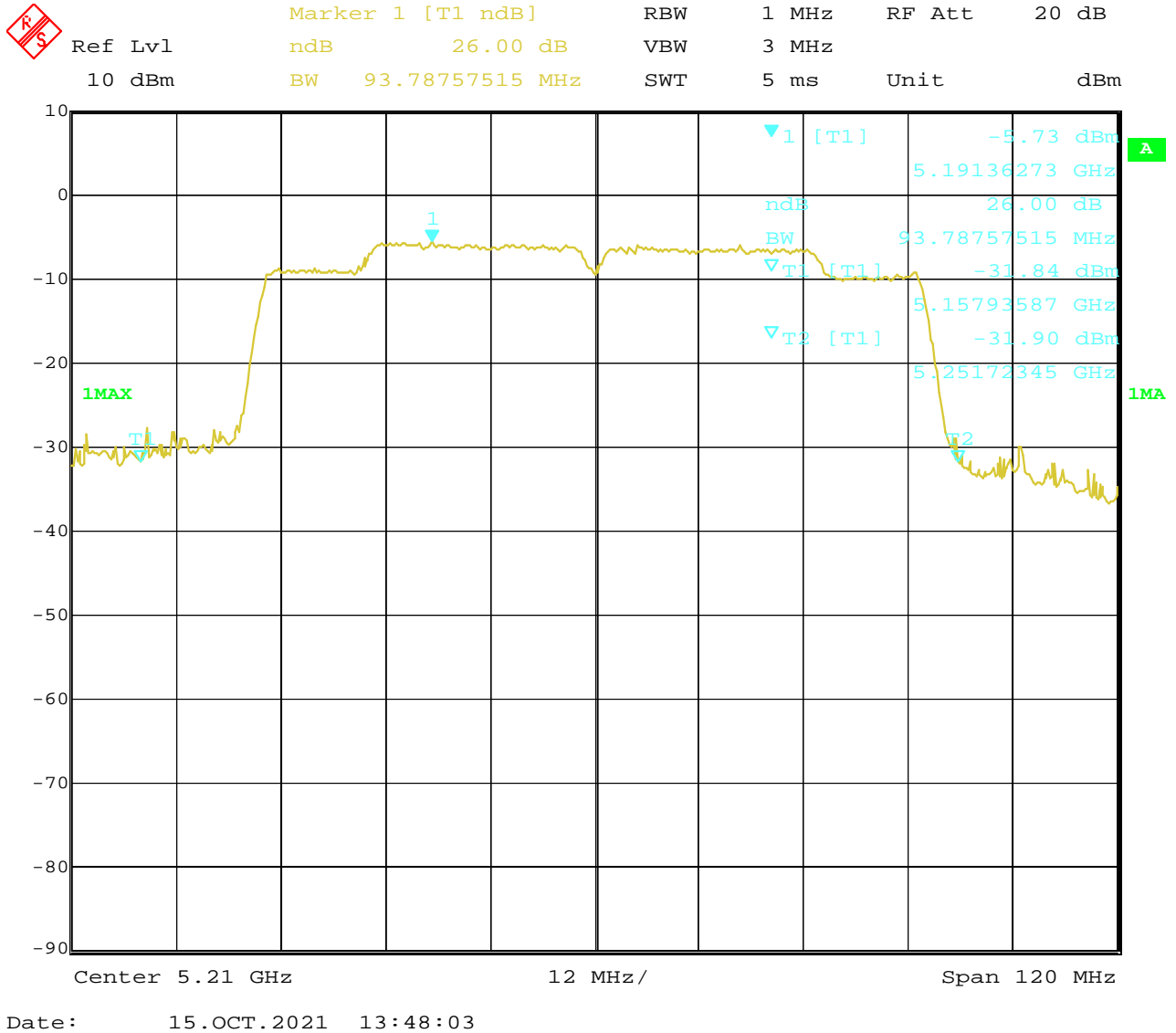
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

26dB Bandwidth

Channel 42



Date: 15.OCT.2021 13:48:03

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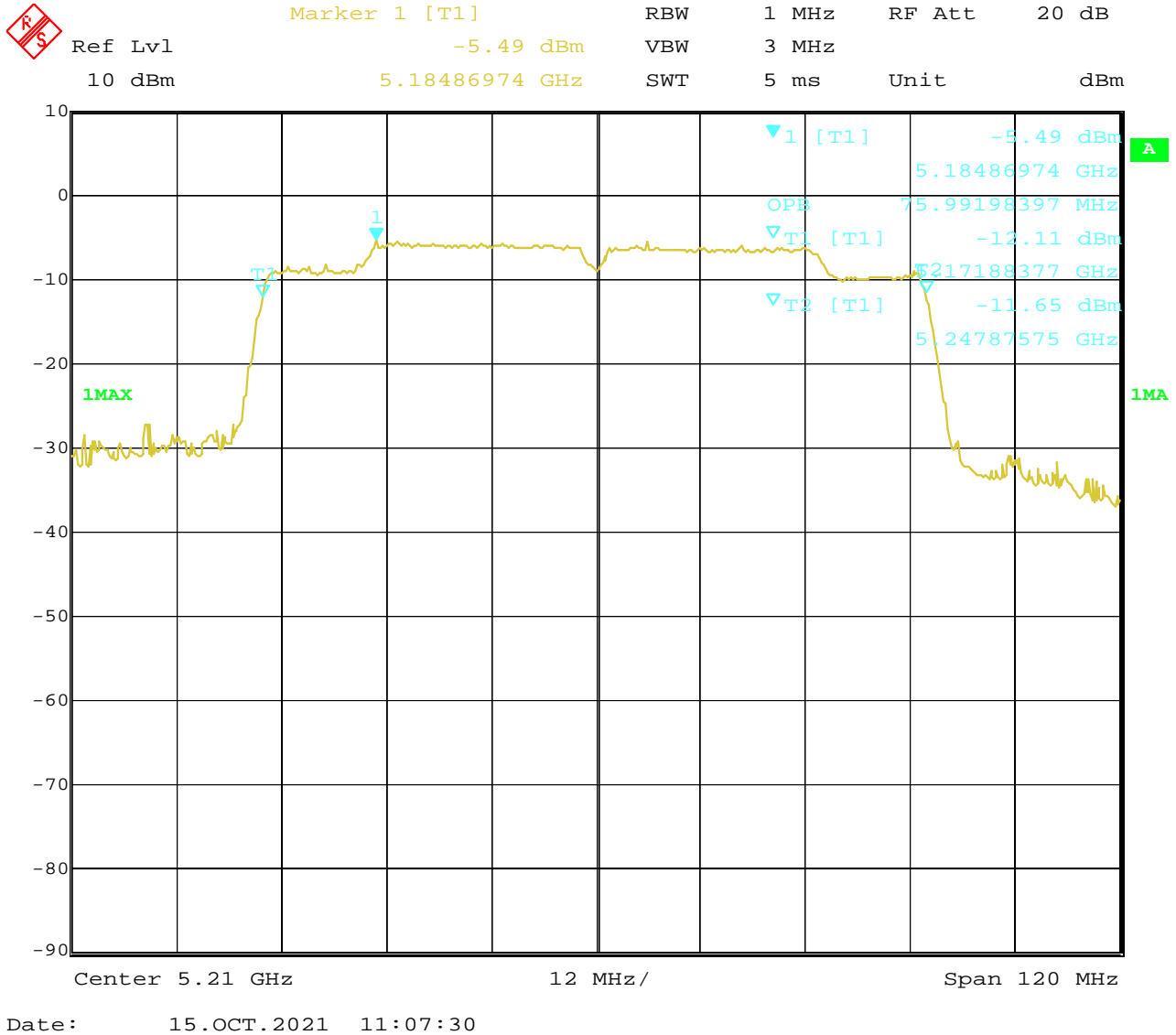
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Test Configure

99% Bandwidth

Channel 42



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EUT		Portable Notebook		Model	NP153GK-X
Mode		802.11ac VHT80		Input Voltage	DC7.6V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
155	5775	mcs0	86.33	--	Pass
6dB Bandwidth					
155	5775	mcs0	75.27	0.5	Pass
99% Bandwidth					
155	5775	mcs0	75.75	--	Pass

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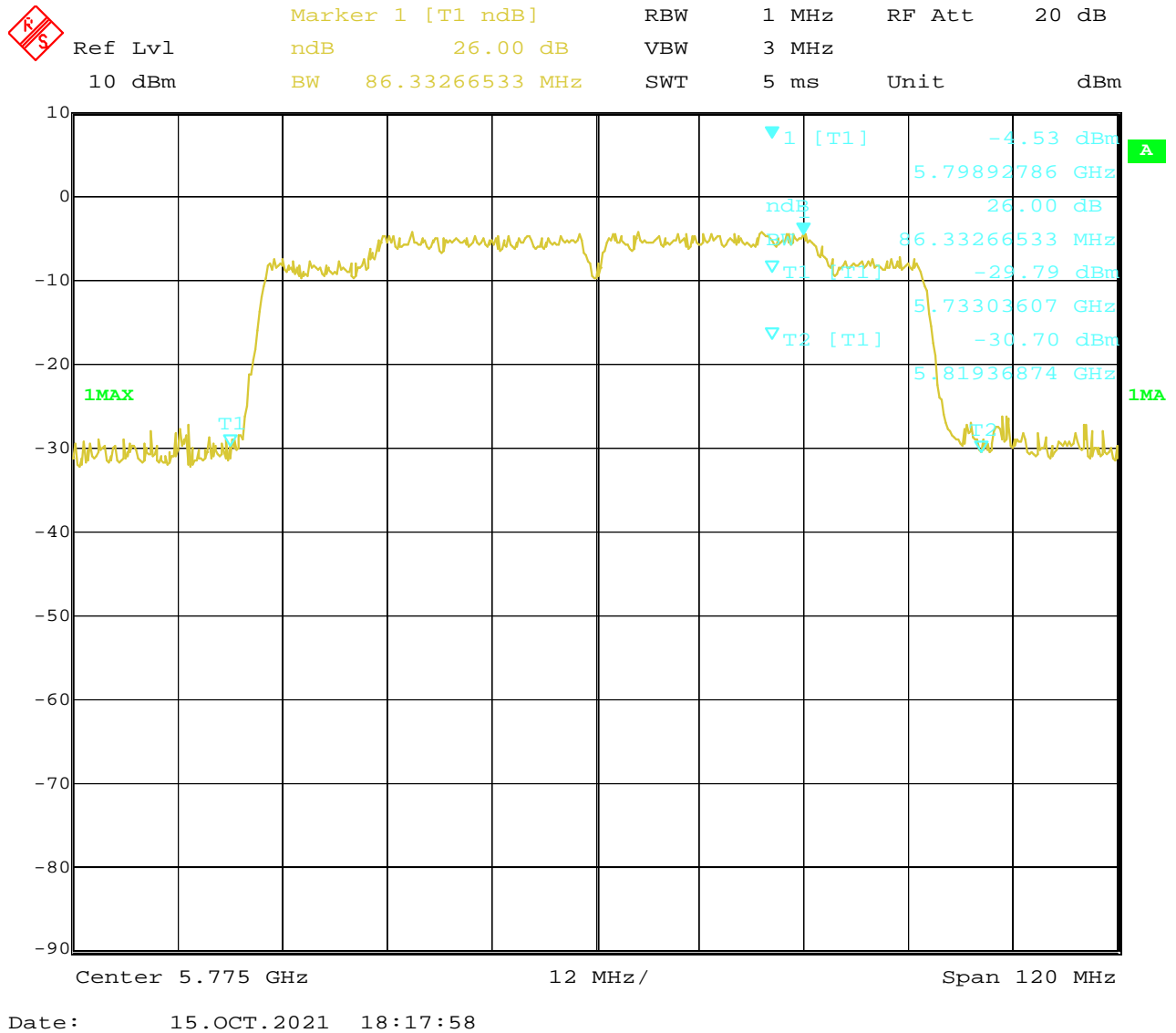
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Test Configure

26dB Bandwidth

Channel 155

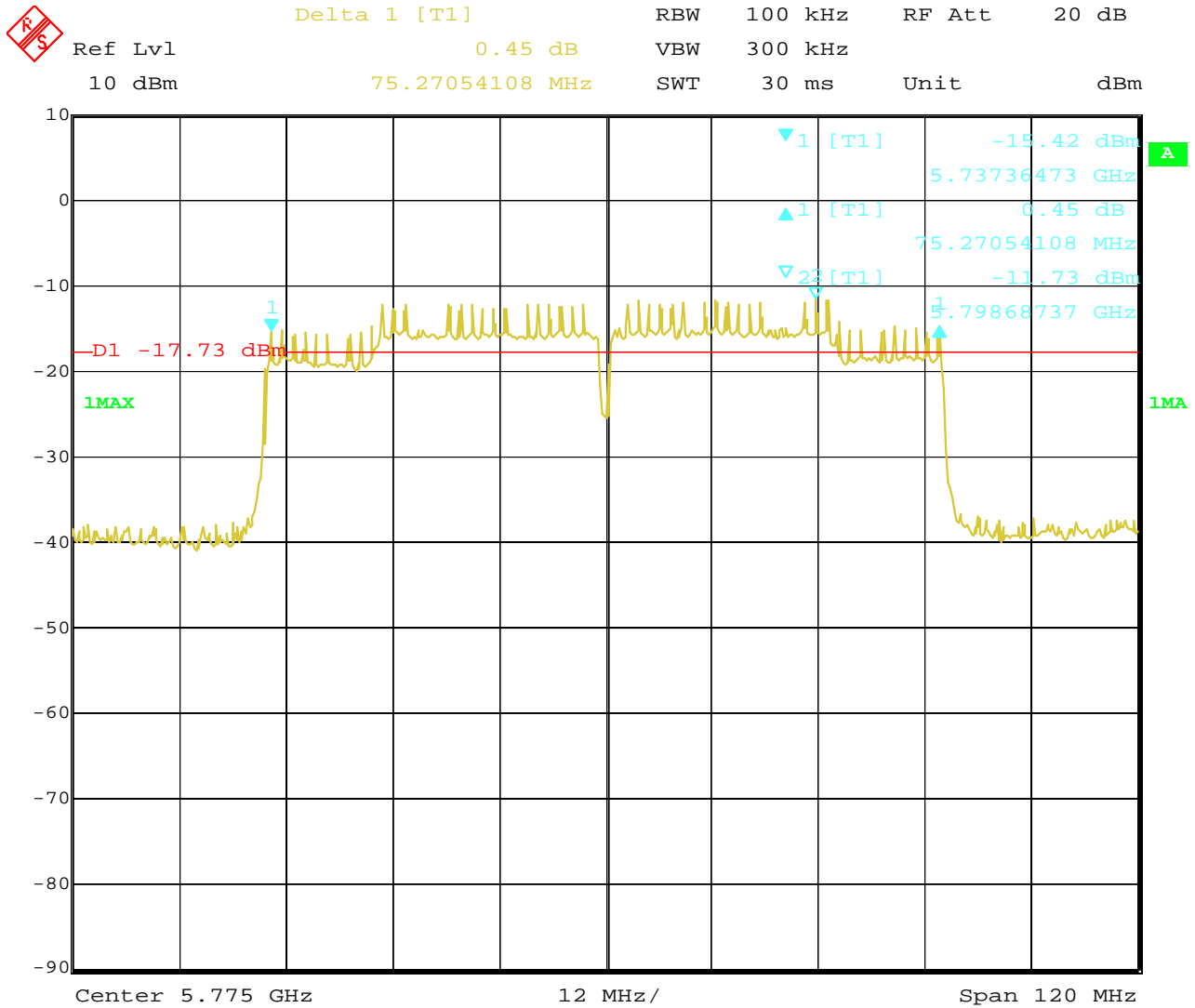


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6dB Bandwidth

Channel 155



Date: 15.OCT.2021 18:16:59

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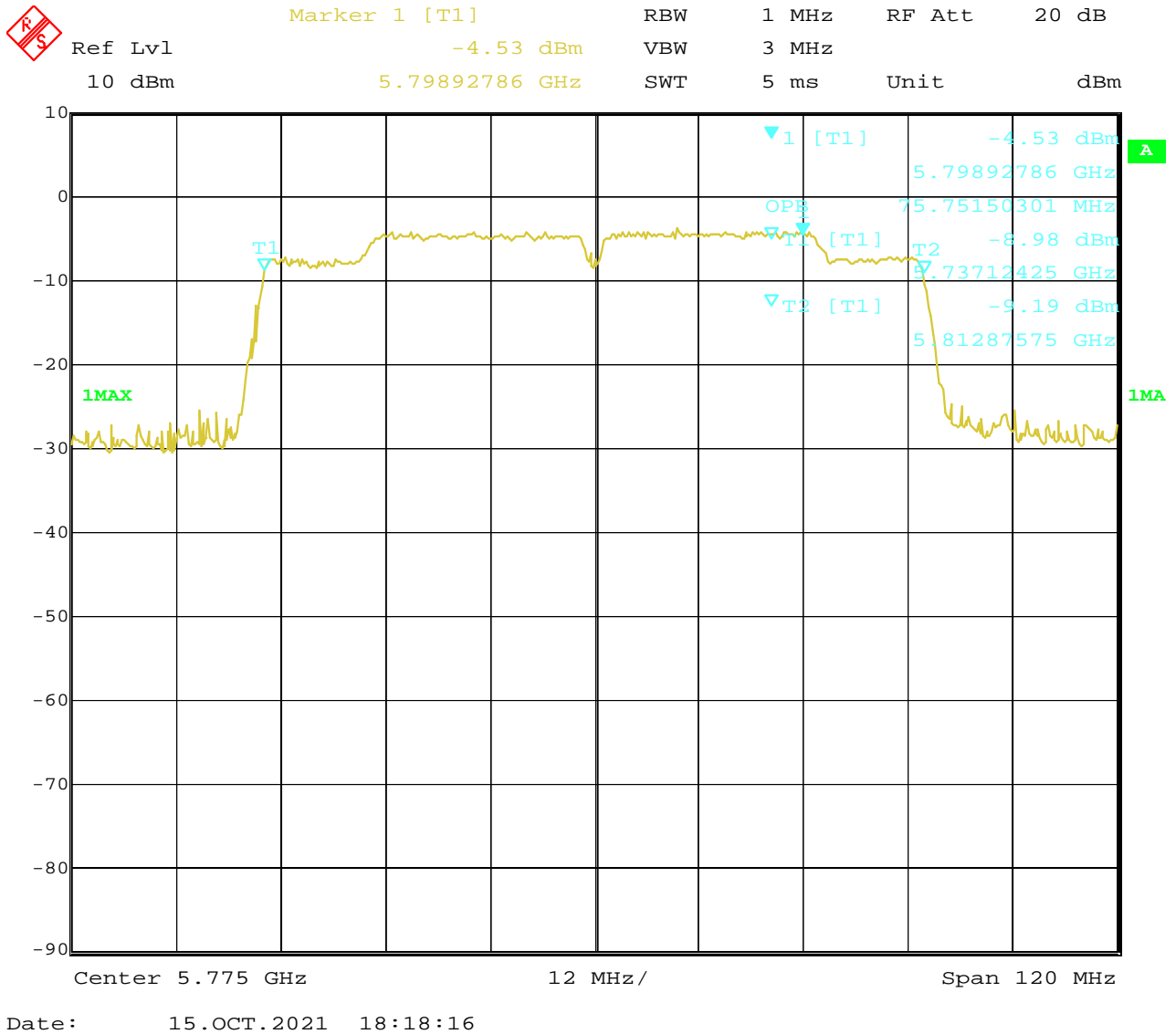
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Test Configure

99% Bandwidth

Channel 155

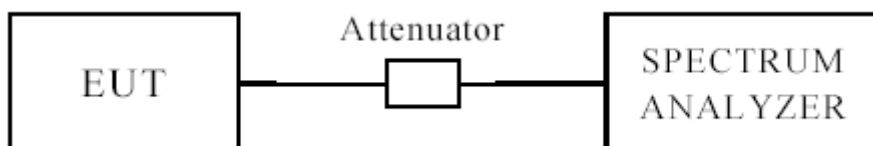


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8.0 Peak Transmit Power Measurement

8.1 Test Setup



8.2 Limits of Peak Transmit Power Measurement

For client devices in the 5.15-5.25 GHz band	250mW (24 dBm)
For devices in the 5.725-5.85 GHz band	1W (30 dBm)

8.3 Test Procedure

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

Note: the average power was measured

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8.4 Test Results

EUT		Portable Notebook		Model	NP153GK-X	
Mode		802.11a		Test Voltage	DC7.6V	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Frequency (MHz)	Main ANT Power	AUX ANT Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	dBm			
36	5180	1.64	1.52	4.59	24	Pass
40	5200	2.59	2.43	5.52	24	Pass
48	5240	2.85	2.71	5.79	24	Pass
149	5745	2.85	2.72	5.80	30	Pass
153	5765	3.51	3.46	6.50	30	Pass
165	5825	2.43	2.40	5.43	30	Pass

Note: 1. At final test to get the worst-case emission at 6Mbps for CH36, CH40, CH48, CH149, CH153 and CH165

2. The result basic equation calculation as follow:

$$\text{Average Power Output} = \text{AV Power Reading} + \text{Cable loss} + \text{Attenuator}$$

3. The worse case was recorded

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

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EUT		Portable Notebook		Model	NP153GK-X	
Mode		802.11n HT20		Test Voltage	DC7.6V	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Frequency (MHz)	Main ANT Power	AUX ANT Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	dBm			
36	5180	1.43	1.32	4.39	24	Pass
40	5200	2.35	2.20	5.29	24	Pass
48	5240	2.68	2.49	5.60	24	Pass
149	5745	2.73	2.65	5.70	30	Pass
153	5765	2.79	2.66	5.74	30	Pass
165	5825	2.47	2.31	5.40	30	Pass

Note: 1. At final test to get the worst-case emission at mcs0 for CH36, CH40, CH48, CH149, CH153 and CH165

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		Portable Notebook		Model	NP153GK-X		
Mode		802.11n HT40		Test Voltage	DC7.6V		
Temperature		24 deg. C,		Humidity	56% RH		
Channel	Frequency (MHz)	Main ANT Power	AUX ANT Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail	
		dBm	dBm				
38	5190	0.04	0.01	3.04	24	Pass	
46	5230	3.90	3.81	6.87	24	Pass	
151	5755	3.55	3.42	6.50	30	Pass	
159	5795	3.55	3.38	6.48	30	Pass	

Note: 1. At final test to get the worst-case emission at mcs0 for CH38, CH46, CH151, CH159 and CH165

2. The result basic equation calculation as follow:

$$\text{Average Power Output} = \text{AV Power Reading} + \text{Cable loss} + \text{Attenuator}$$

3. The worse case was recorded

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EUT		Portable Notebook		Model	NP153GK-X	
Mode		802.11ac VHT20		Test Voltage	DC7.6V	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Frequency (MHz)	Main ANT Power	AUX ANT Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	dBm			
36	5180	1.53	1.42	4.49	24	Pass
40	5200	2.45	2.31	5.39	24	Pass
48	5240	2.77	2.66	5.73	24	Pass
149	5745	2.73	2.59	5.67	30	Pass
153	5765	2.81	2.73	5.78	30	Pass
165	5825	2.09	1.98	5.05	30	Pass

Note: 1. At final test to get the worst-case emission at mcs0 for CH36, CH40, CH48, CH149, CH153 and CH165

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		Portable Notebook		Model	NP153GK-X		
Mode		802.11ac VHT40		Test Voltage	DC7.6V		
Temperature		24 deg. C,		Humidity	56% RH		
Channel	Frequency (MHz)	Main ANT Power	AUX ANT Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail	
		dBm	dBm				
38	5190	0.45	0.31	3.39	24	Pass	
46	5230	3.85	3.72	6.80	24	Pass	
151	5755	3.59	3.43	6.52	30	Pass	
159	5795	3.60	3.50	6.56	30	Pass	

Note: 1. At final test to get the worst-case emission at mcs0 for CH38, CH46, CH151, CH159 and CH165

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

EUT		Portable Notebook		Model	NP153GK-X		
Mode		802.11ac VHT80		Test Voltage	DC7.6V		
Temperature		24 deg. C,		Humidity	56% RH		
Channel	Frequency (MHz)	Main ANT Power	AUX ANT Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail	
		dBm	dBm				
42	5210	1.79	1.64	4.73	24	Pass	
155	5775	3.75	3.59	6.68	30	Pass	

Note: 1. At final 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

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

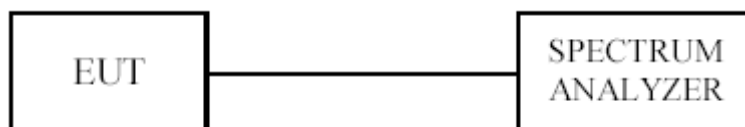
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

Operation Band	Limit
U-NII-1	11dBm/MHz
U-NII-3	30dBm/500kHz

9.3 Test Procedure

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

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9.4 Test Result

EUT	Portable Notebook		Model	NP153GK-X		
Mode	802.11a 6Mbps		Test Voltage	DC7.6V		
Temperature	24 deg. C,		Humidity	56% RH		
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm)	Pass/ Fail
36	5180	-6.88	3.01	-3.87	11	Pass
40	5200	-5.32	3.01	-2.31	11	Pass
48	5240	-5.74	3.01	-2.73	11	Pass
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm)	Pass/ Fail
149	5745	-6.30	3.01	-3.29	30	Pass
153	5765	-6.43	3.01	-3.42	30	Pass
165	5825	-7.09	3.01	-4.08	30	Pass

Note: Two antennas were tested and only the worst case was recorded in the test report. The Main antenna was the worst case.

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

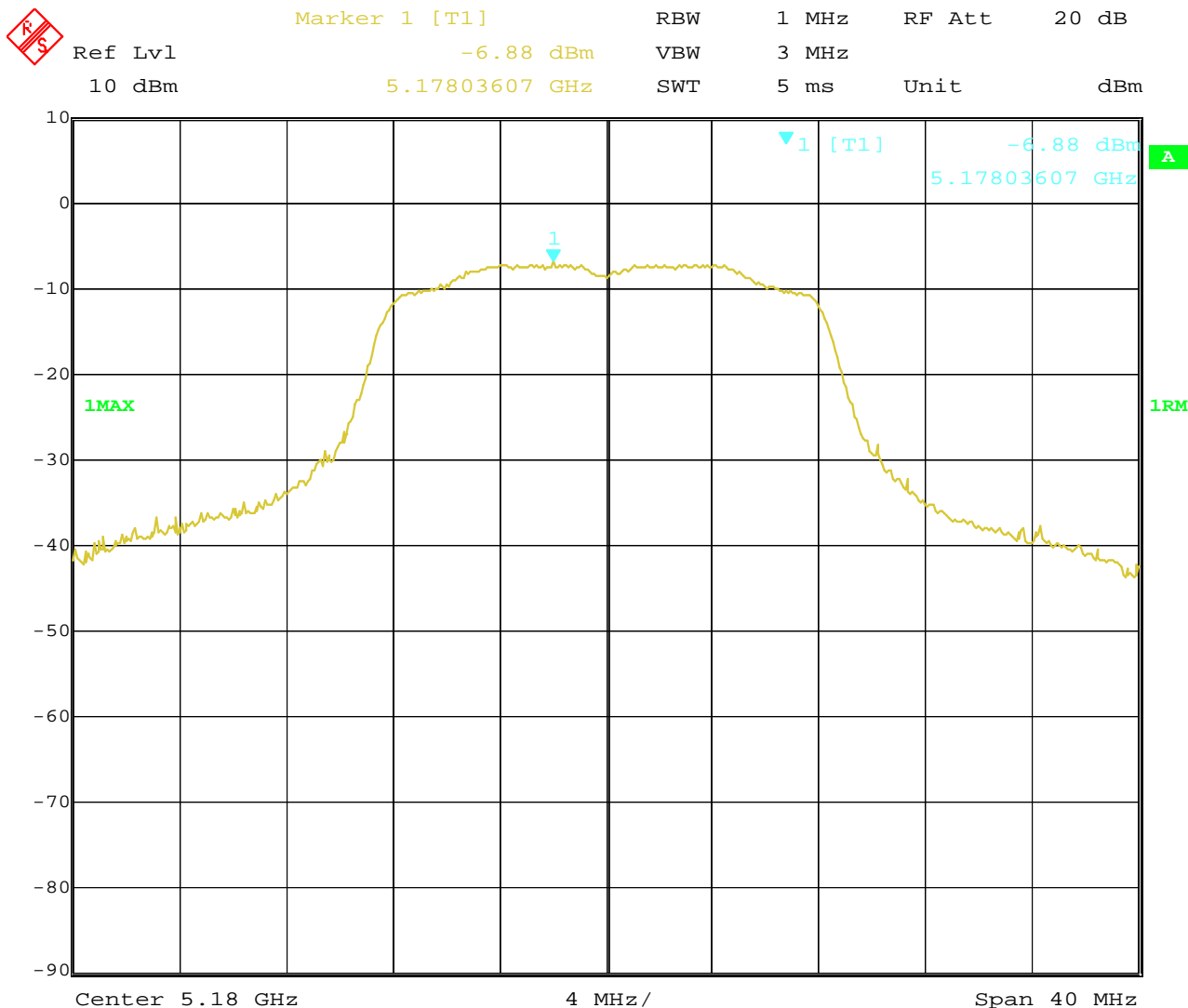
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9.5 Plots of Power Spectral Density Measurement

1.802.11a at 6Mbps of CH36



Date: 14.OCT.2021 15:44:07

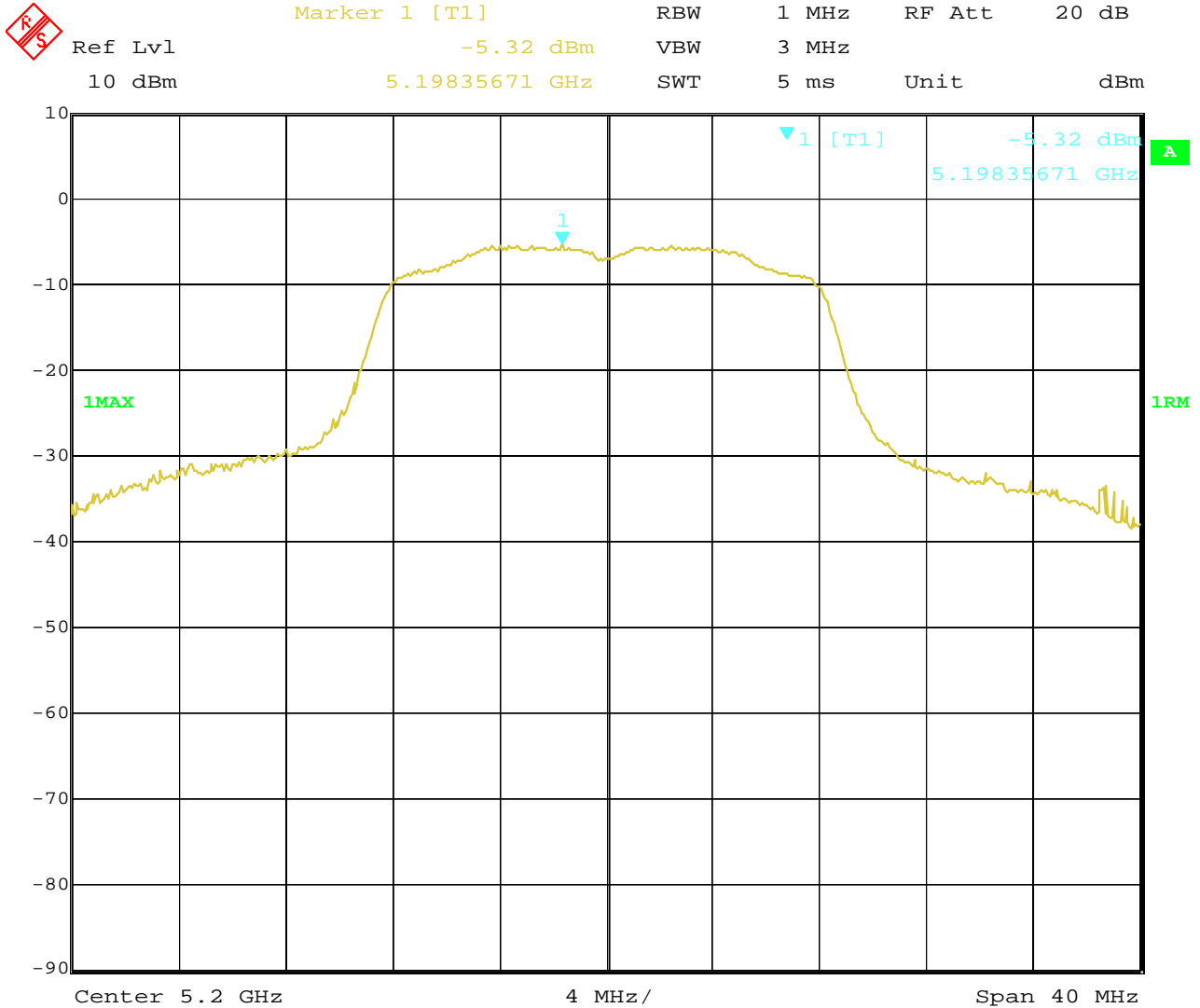
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2.802.11a at 6Mbps of CH40



Date: 14.OCT.2021 15:51:26

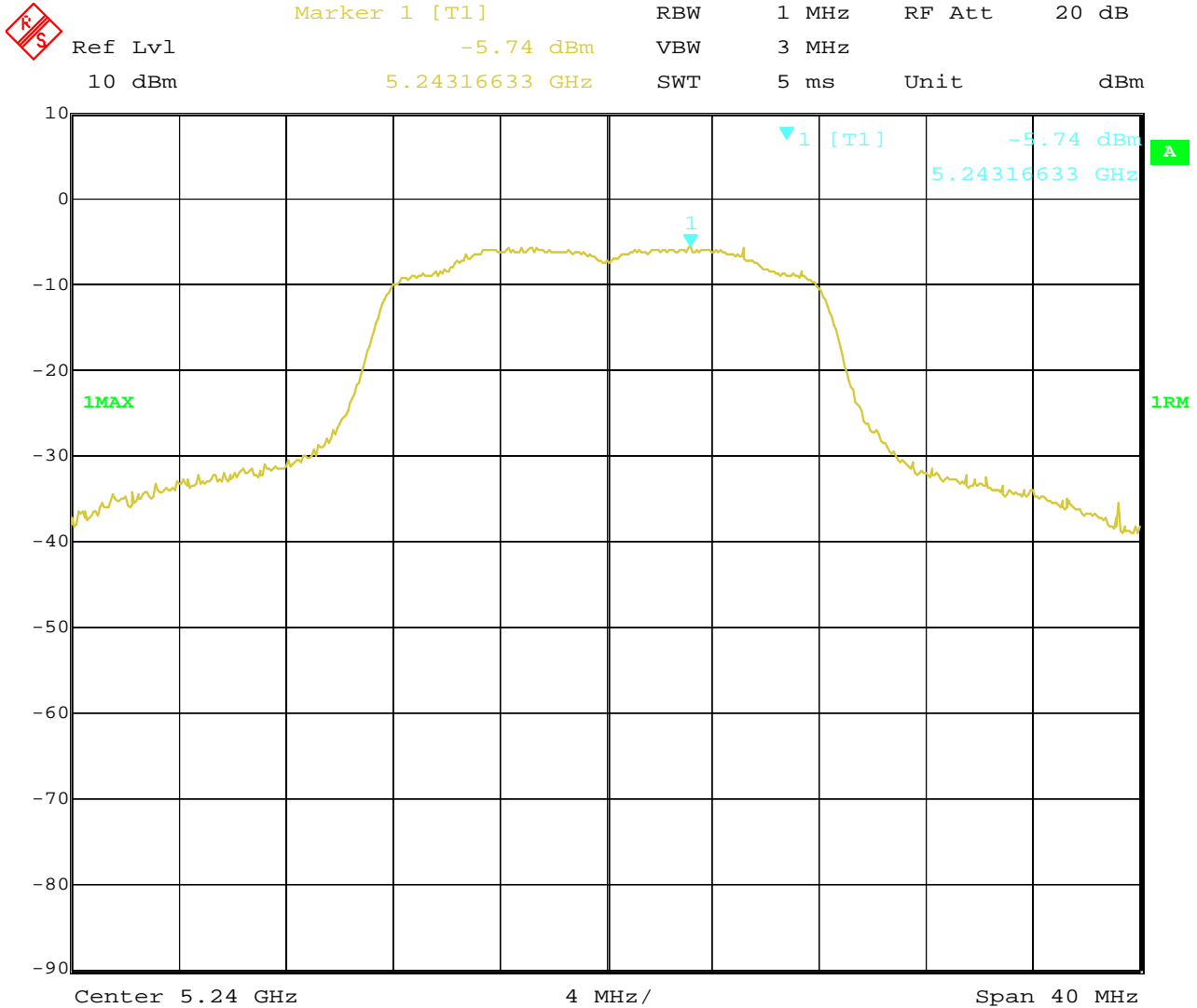
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3.802.11a at 6Mbps of CH48

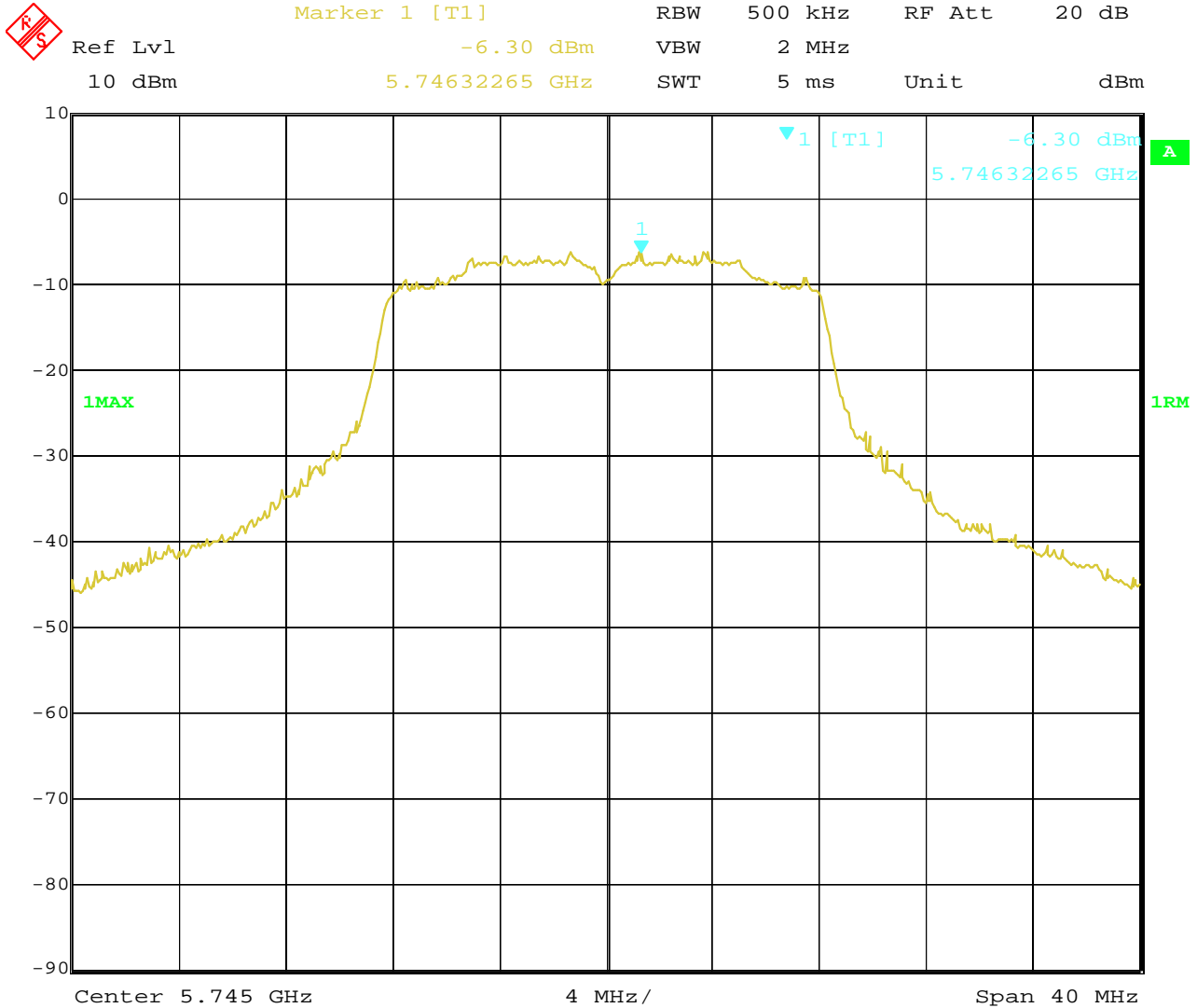


Date: 14.OCT.2021 16:14:32

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4.802.11a at 6Mbps of CH149



Date: 15.OCT.2021 12:58:07

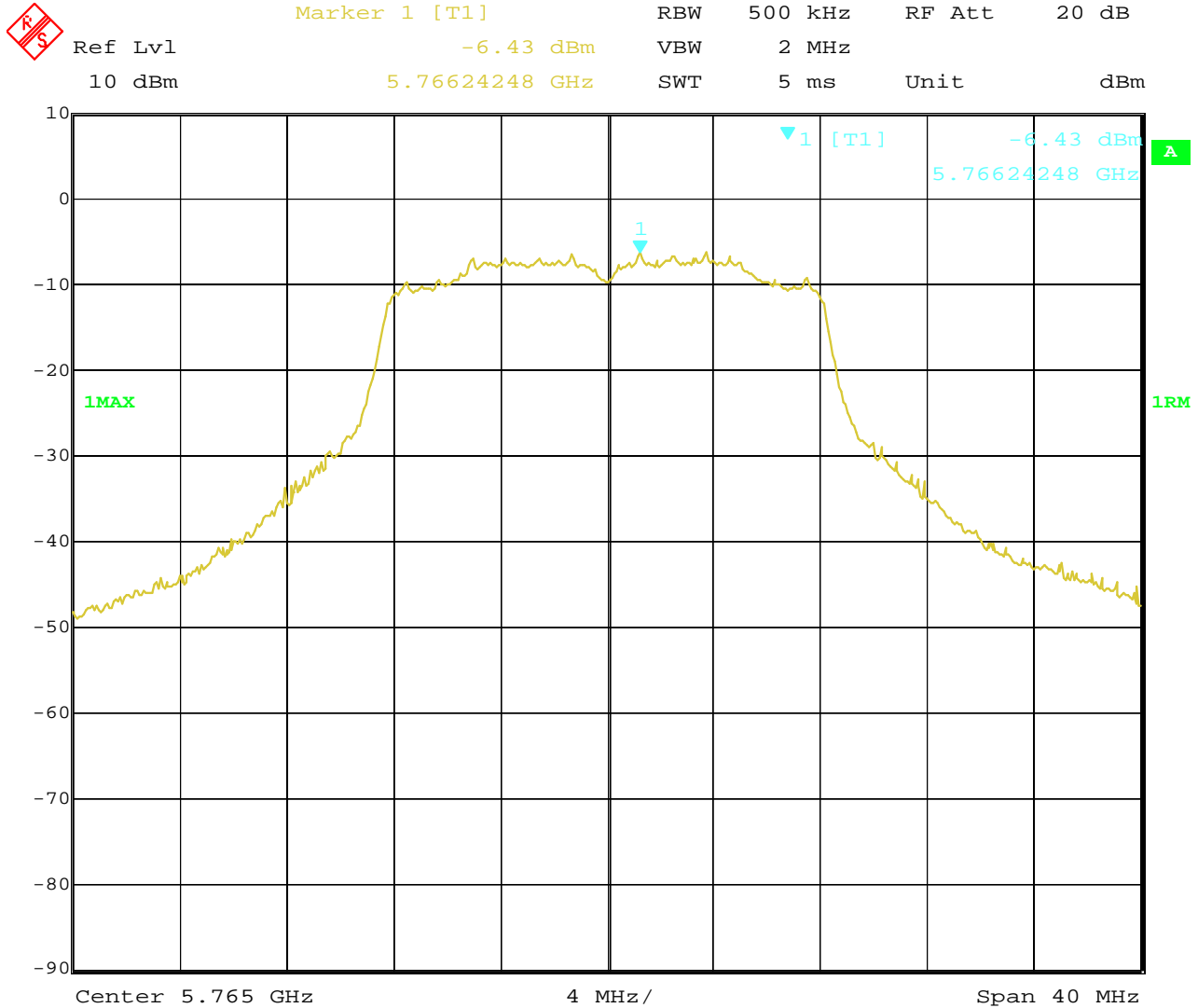
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5.802.11a at 6Mbps of CH153

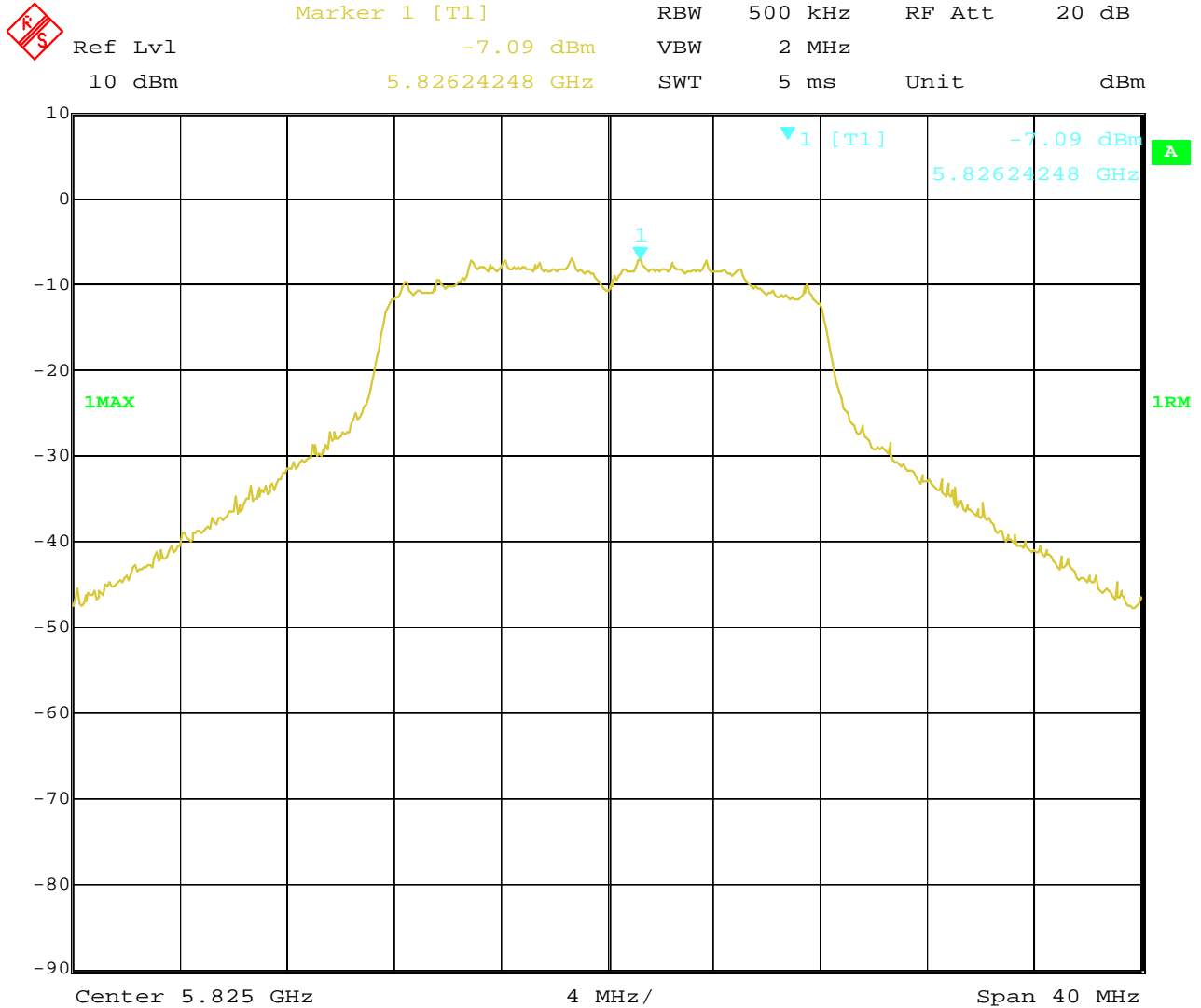


Date: 15.OCT.2021 14:05:54

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6.802.11a at 6Mbps of CH165



Date: 15.OCT.2021 14:35:07

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EUT		Portable Notebook		Model		NP153GK-X	
Mode		802.11n HT20 mcs0		Test Voltage		DC7.6V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
36	5180	-7.58	3.01	-4.57	11	Pass	
40	5200	-6.40	3.01	-3.39	11	Pass	
48	5240	-6.26	3.01	-3.25	11	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
149	5745	-7.23	3.01	-4.22	30	Pass	
153	5765	-7.18	3.01	-4.17	30	Pass	
165	5825	-7.37	3.01	-4.36	30	Pass	

Note: Two antennas were tested and only the worst case was recorded in the test report. The Main antenna was the worst case.

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

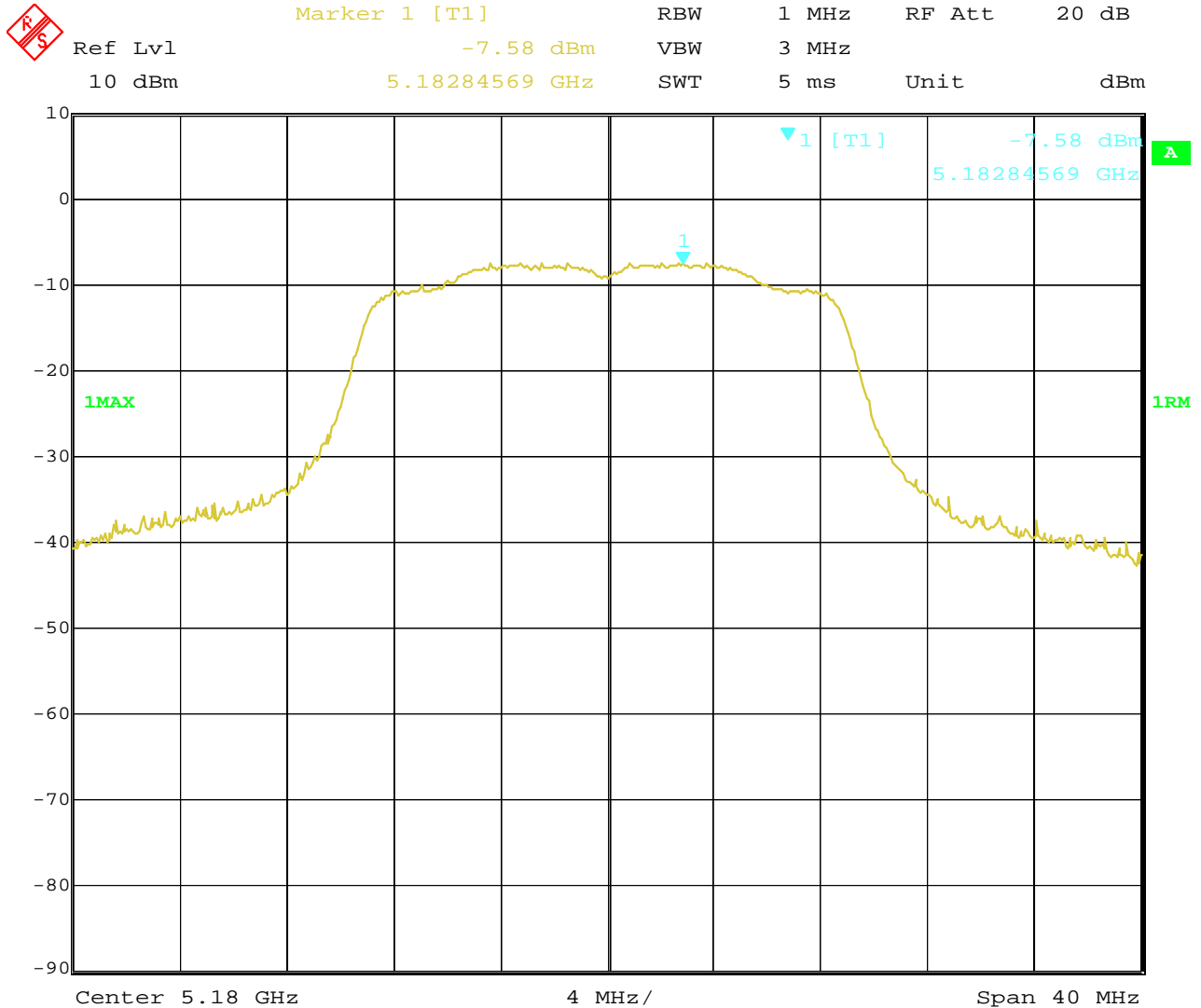
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Test Plots

1.802.11n at mcs0 of CH36



Date: 14.OCT.2021 16:48:53

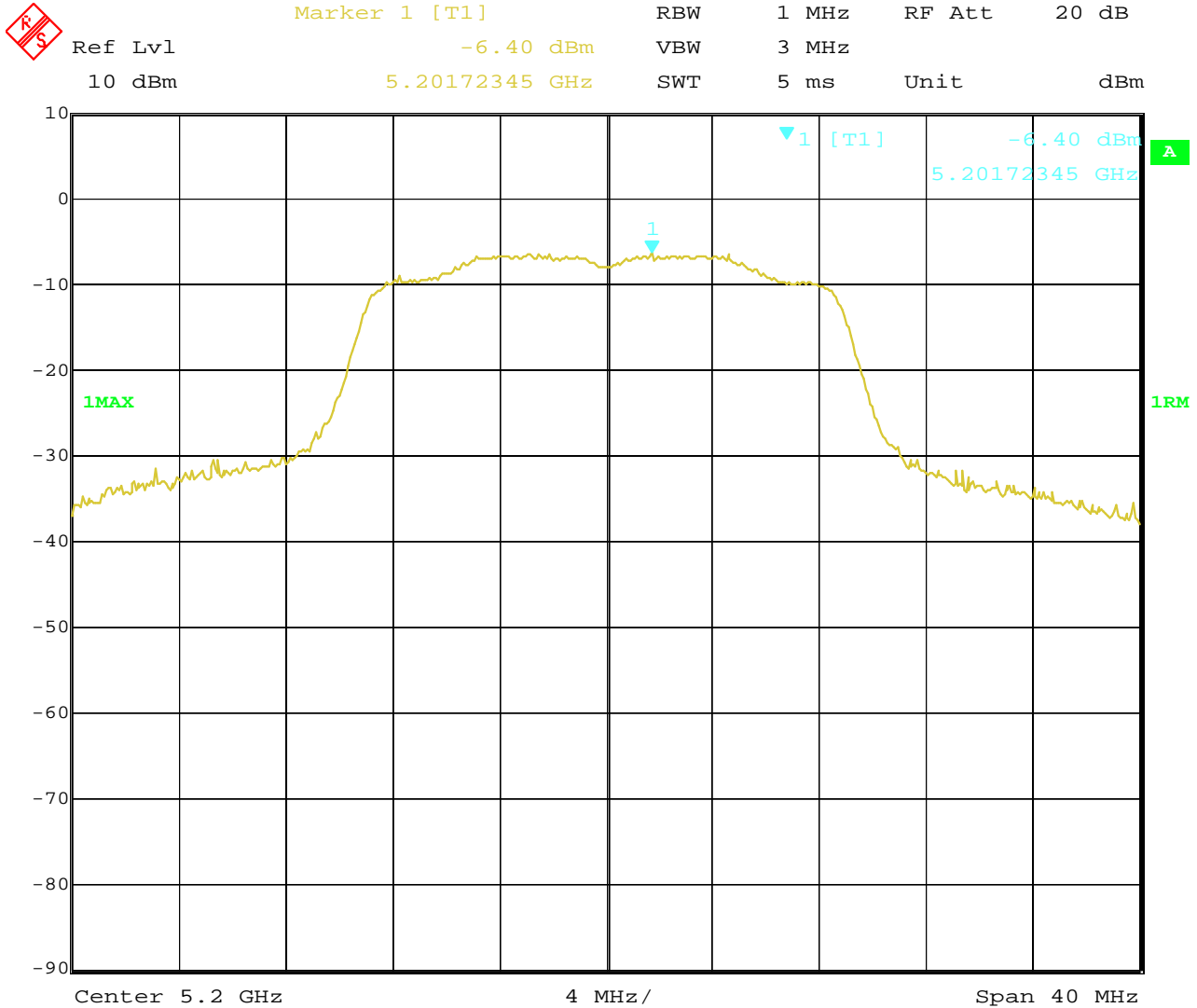
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2.802.11n at mcs0 of CH40



Date: 14.OCT.2021 16:40:44

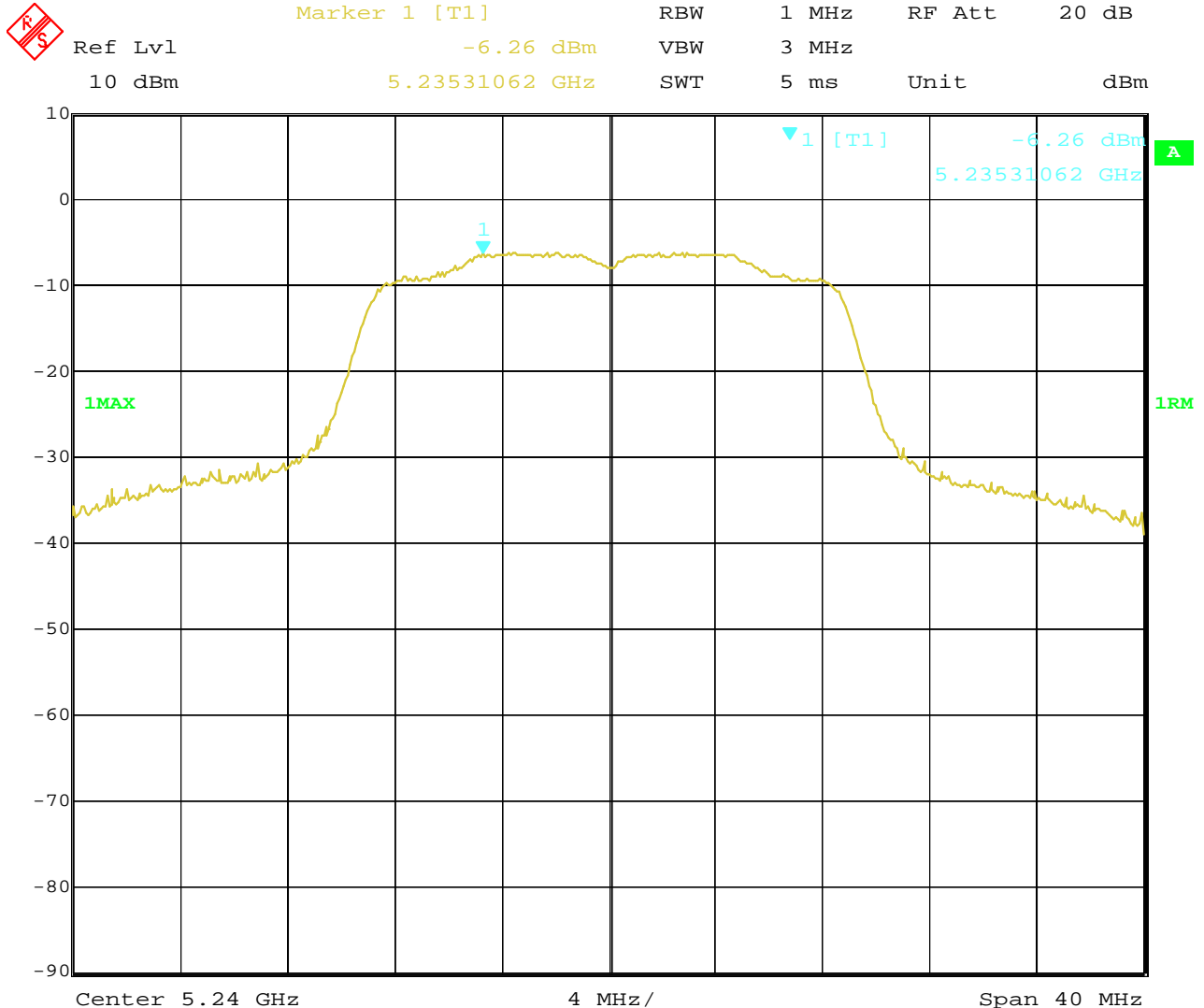
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3.802.11n at mcs0 of CH48



Date: 14.OCT.2021 16:30:09

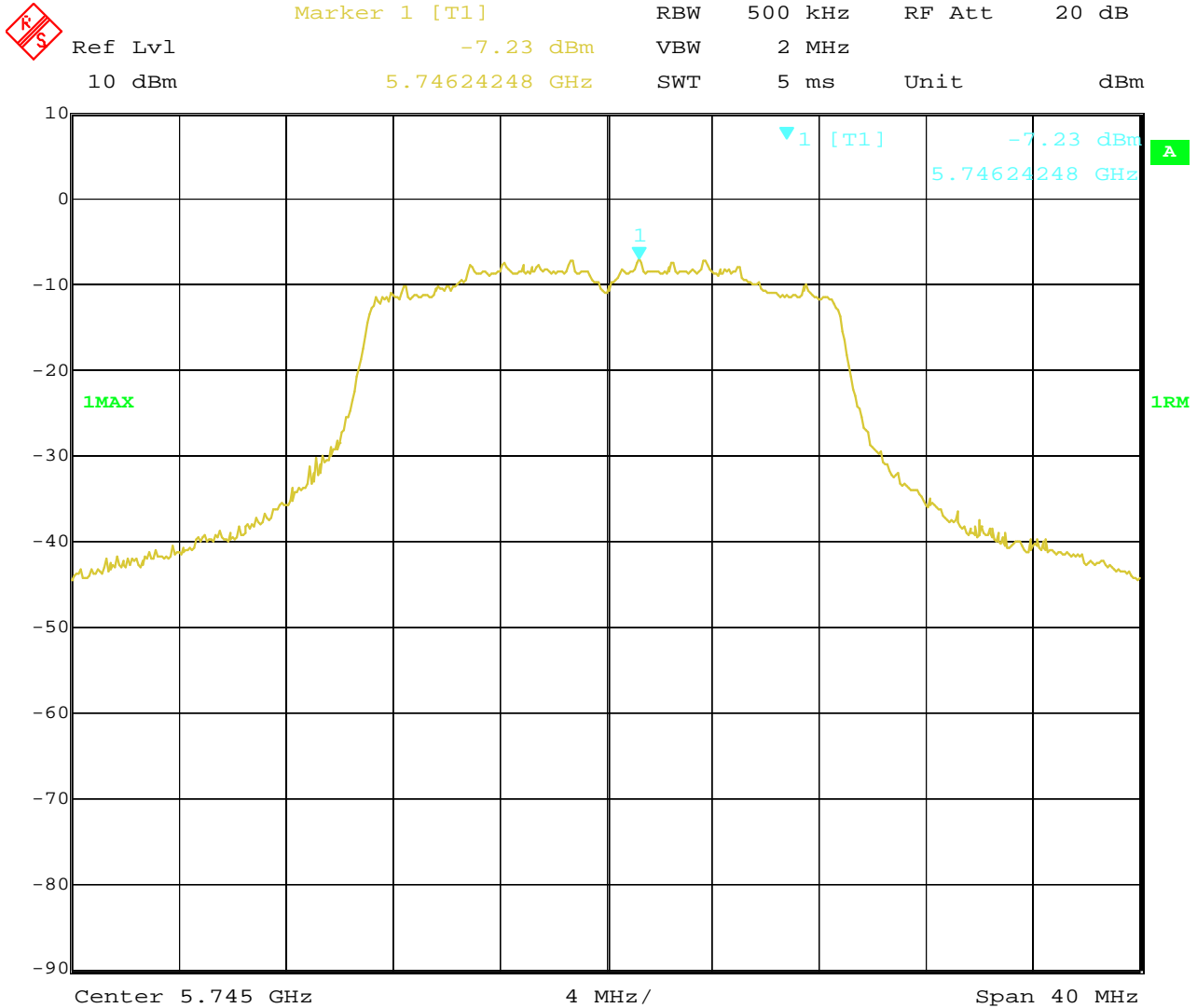
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4.802.11n at mcs0 of CH149

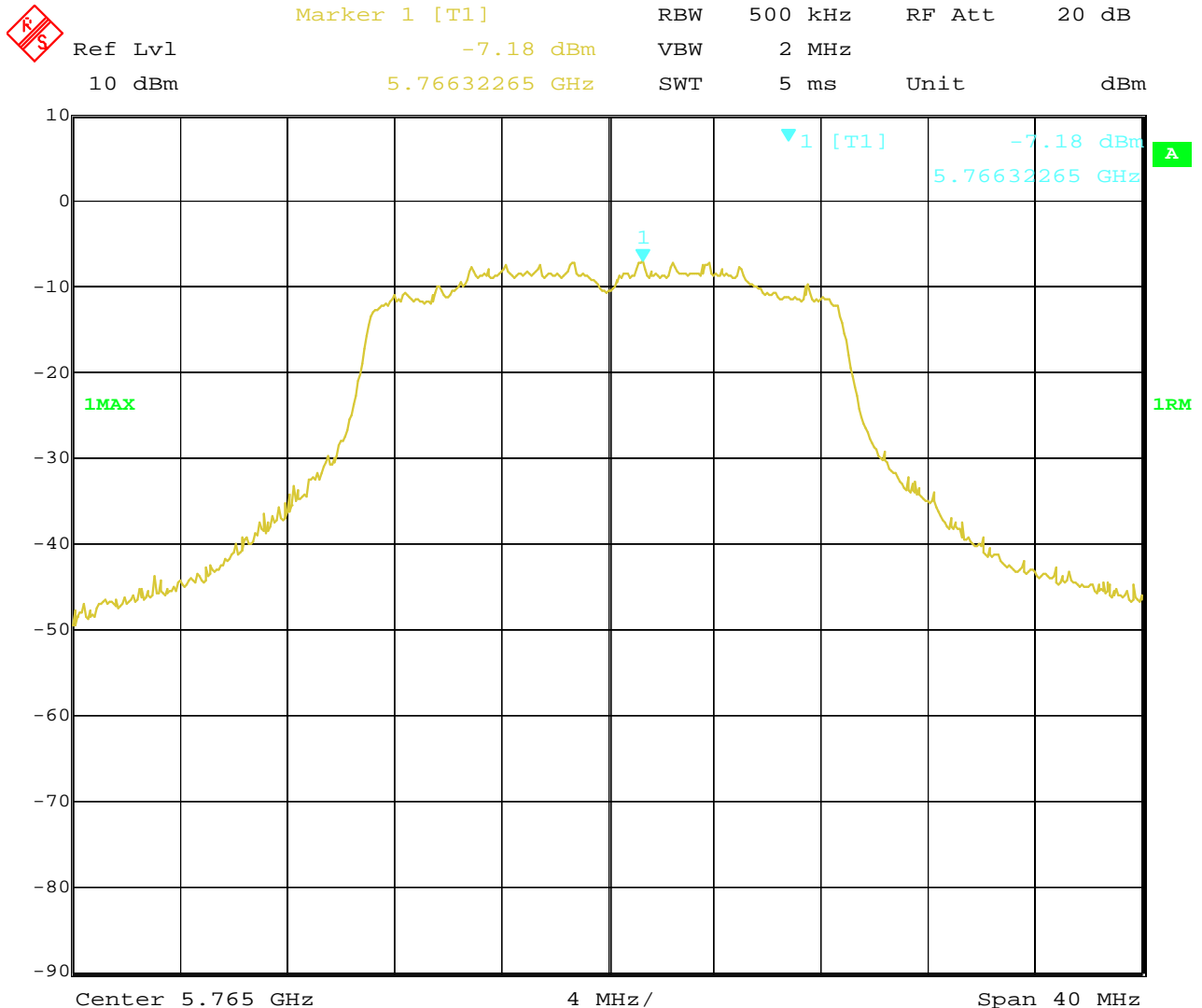


Date: 15.OCT.2021 16:57:23

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5.802.11n at mcs0 of CH153



Date: 15.OCT.2021 16:32:45

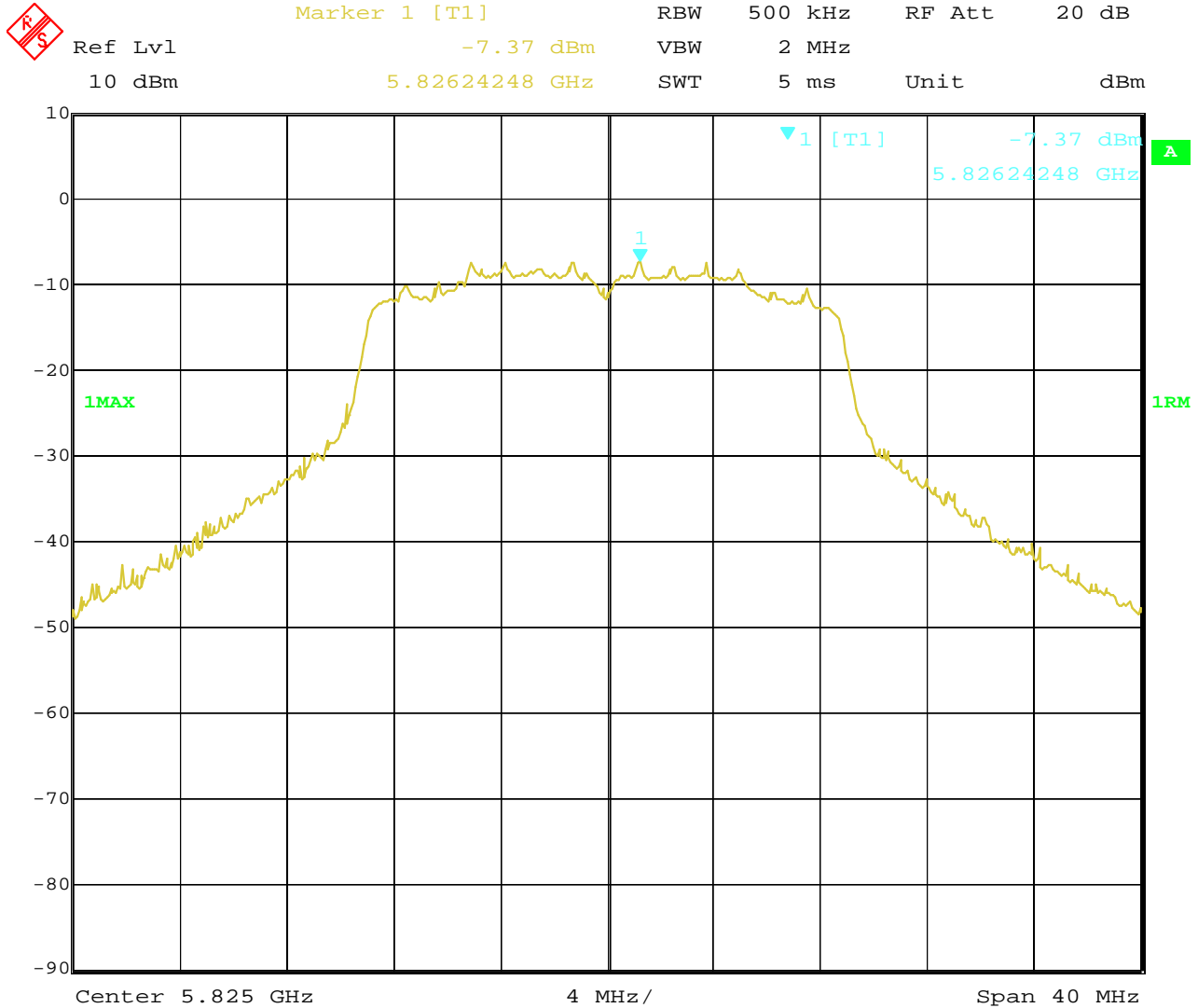
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6.802.11n at mcs0 of CH165



Date: 15.OCT.2021 14:54:49

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

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EUT		Portable Notebook		Model		NP153GK-X	
Mode		802.11n HT40 mcs0		Test Voltage		DC7.6V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
38	5190	-11.93	3.01	-8.92	11	Pass	
46	5230	-8.13	3.01	-5.12	11	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
151	5755	-10.20	3.01	-7.19	30	Pass	
159	5795	-9.54	3.01	-6.53	30	Pass	

Note: Two antennas were tested and only the worst case was recorded in the test report. The Main antenna was the worst case.

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

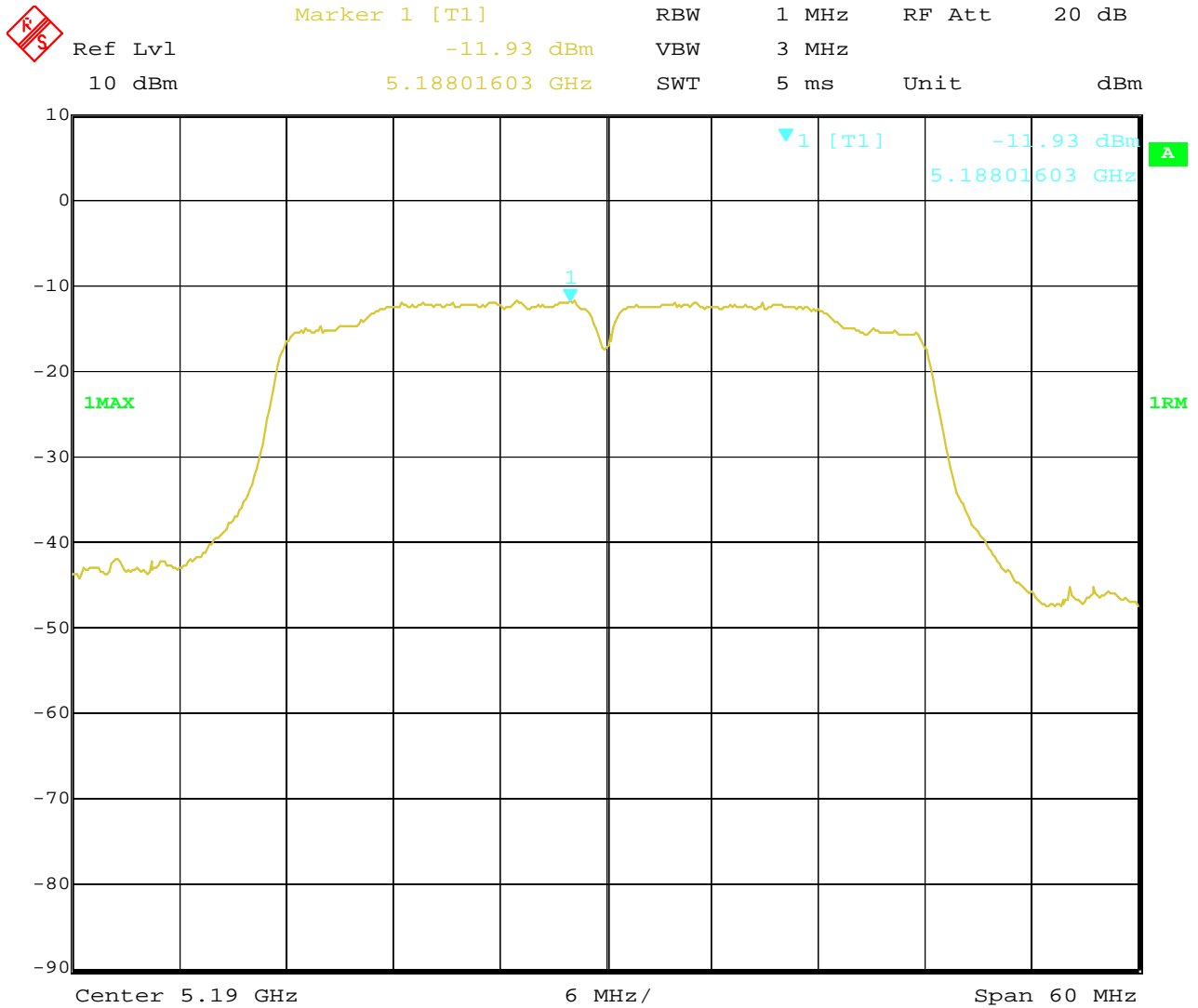
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Test Plots

1.802.11n HT40 at mcs0 of CH38



Date: 15.OCT.2021 10:27:10

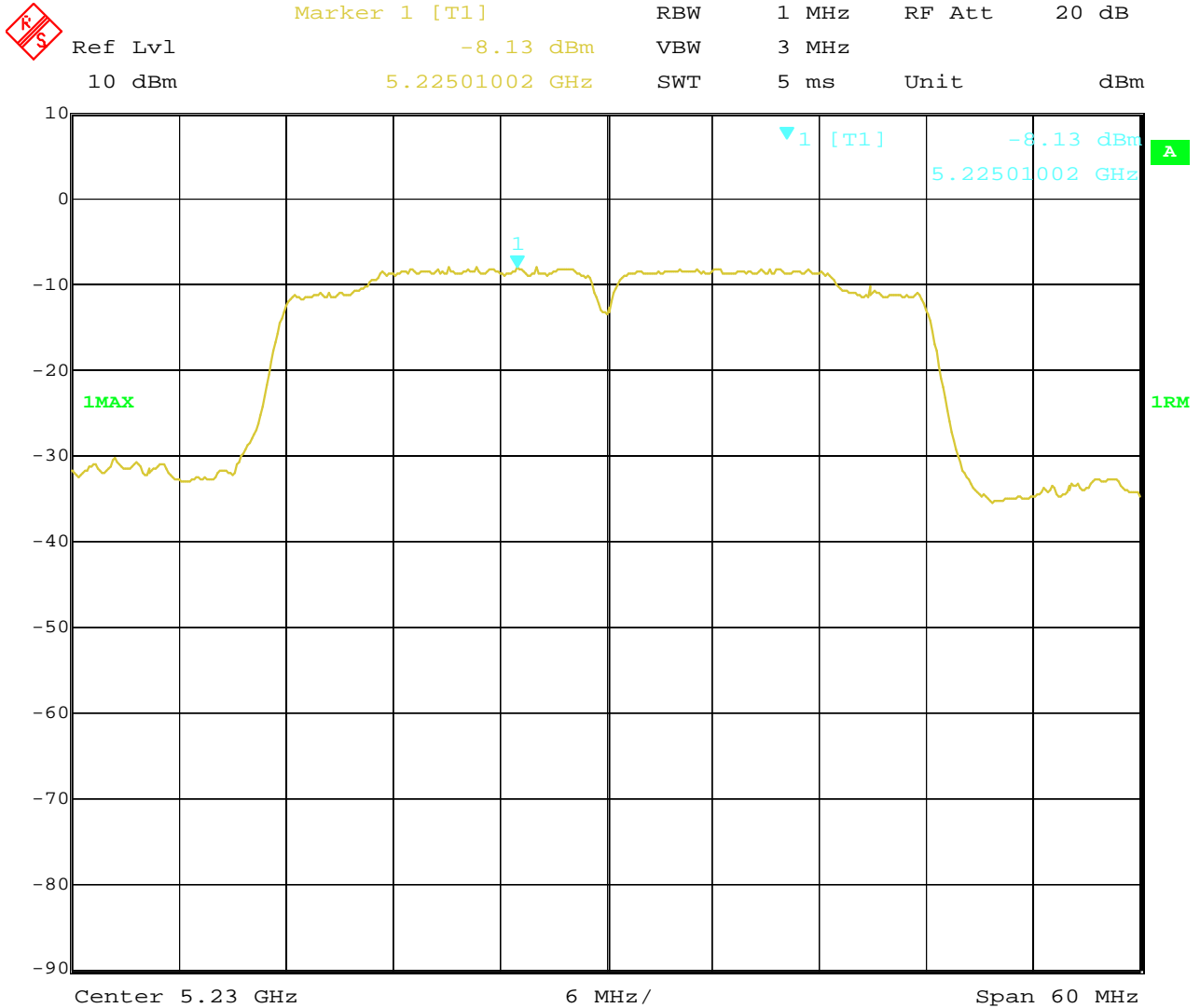
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2.802.11n HT40 at mcs0 of CH46



Date: 15.OCT.2021 10:37:12

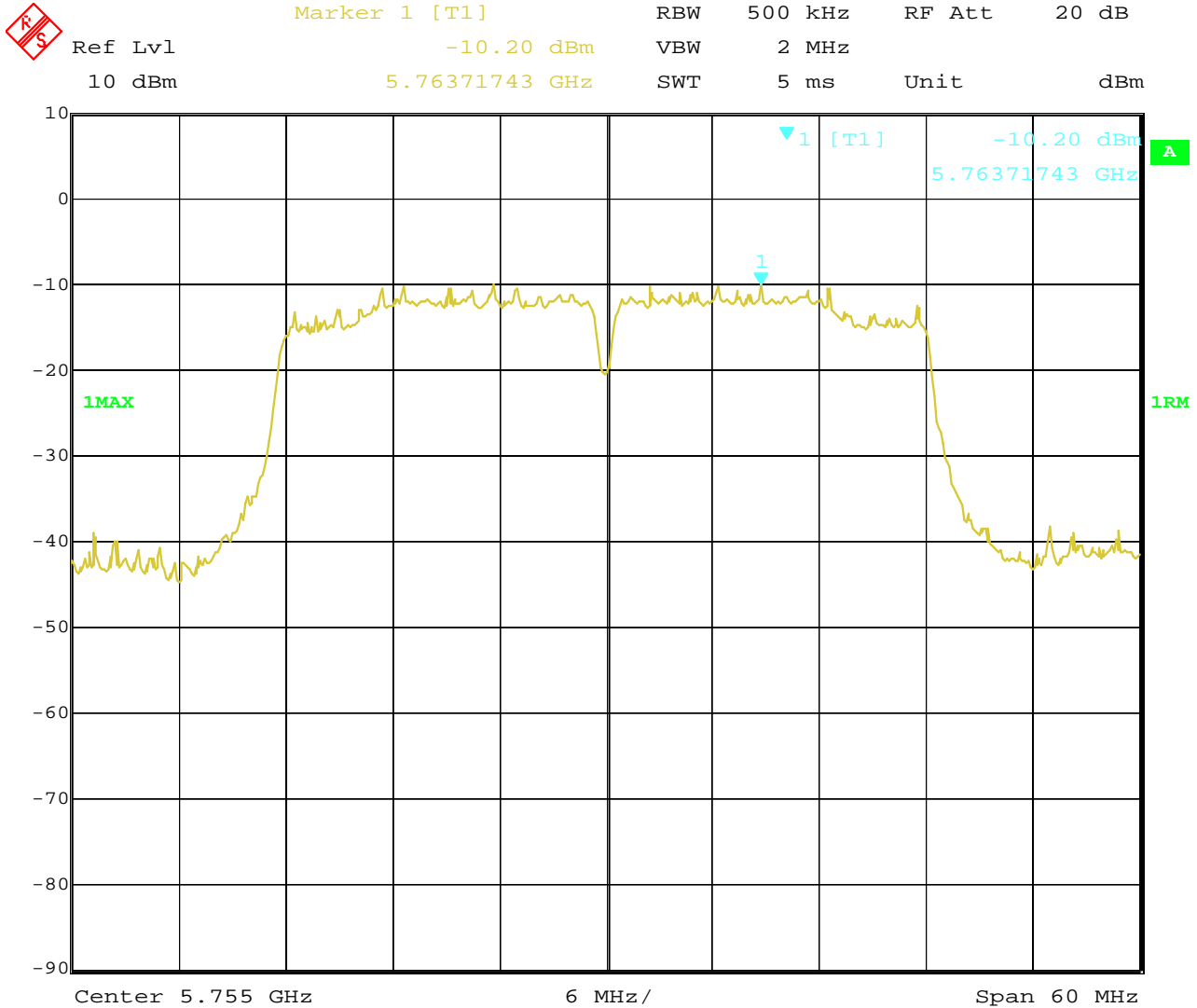
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3.802.11n HT40 at mcs0 of CH151



Date: 15.OCT.2021 18:05:00

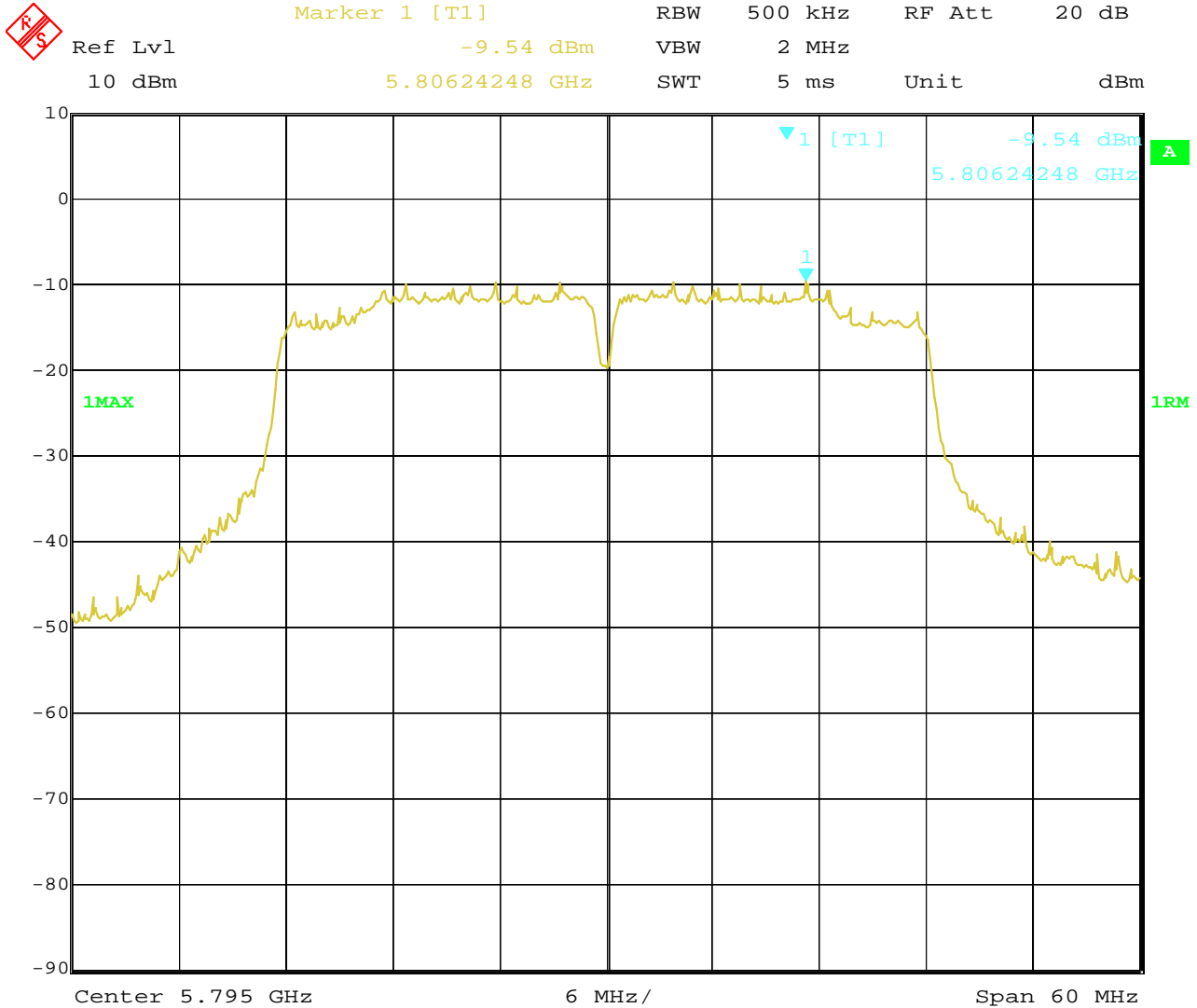
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4.802.11n HT40 at mcs0 of CH159



Date: 15.OCT.2021 18:05:32

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EUT		Portable Notebook		Model		NP153GK-X	
Mode		802.11ac VHT20		Test Voltage		DC7.6V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
36	5180	-6.99	3.01	-3.98	11	Pass	
40	5200	-6.88	3.01	-3.87	11	Pass	
48	5240	-6.83	3.01	-3.82	11	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
149	5745	-6.70	3.01	-3.69	30	Pass	
153	5765	-7.76	3.01	-4.75	30	Pass	
165	5825	-7.96	3.01	-4.95	30	Pass	

Note: Two antennas were tested and only the worst case was recorded in the test report. The Main antenna was the worst case.

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

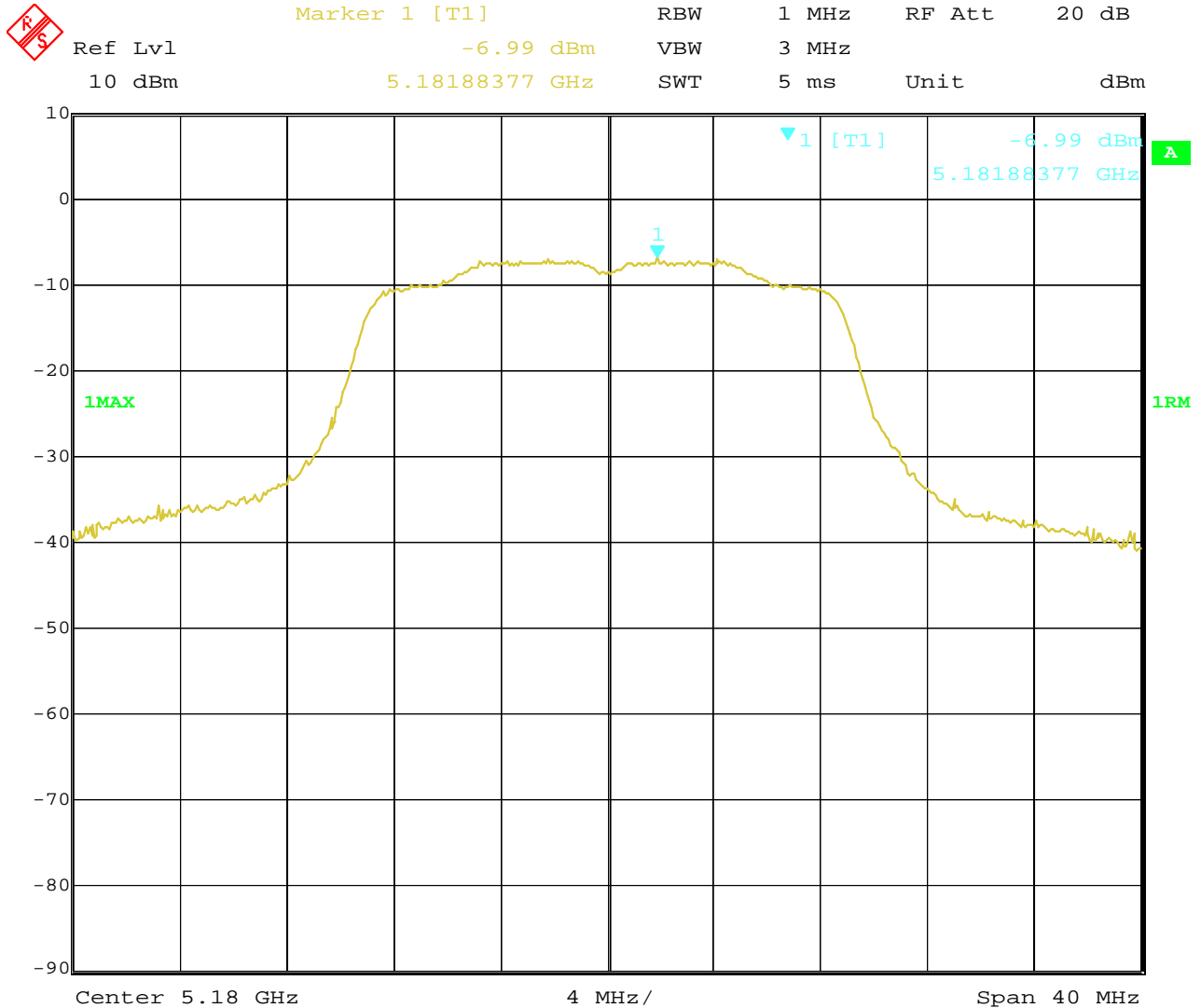
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Test Plots

1.802.11ac at mcs0 of CH36



Date: 14.OCT.2021 17:30:21

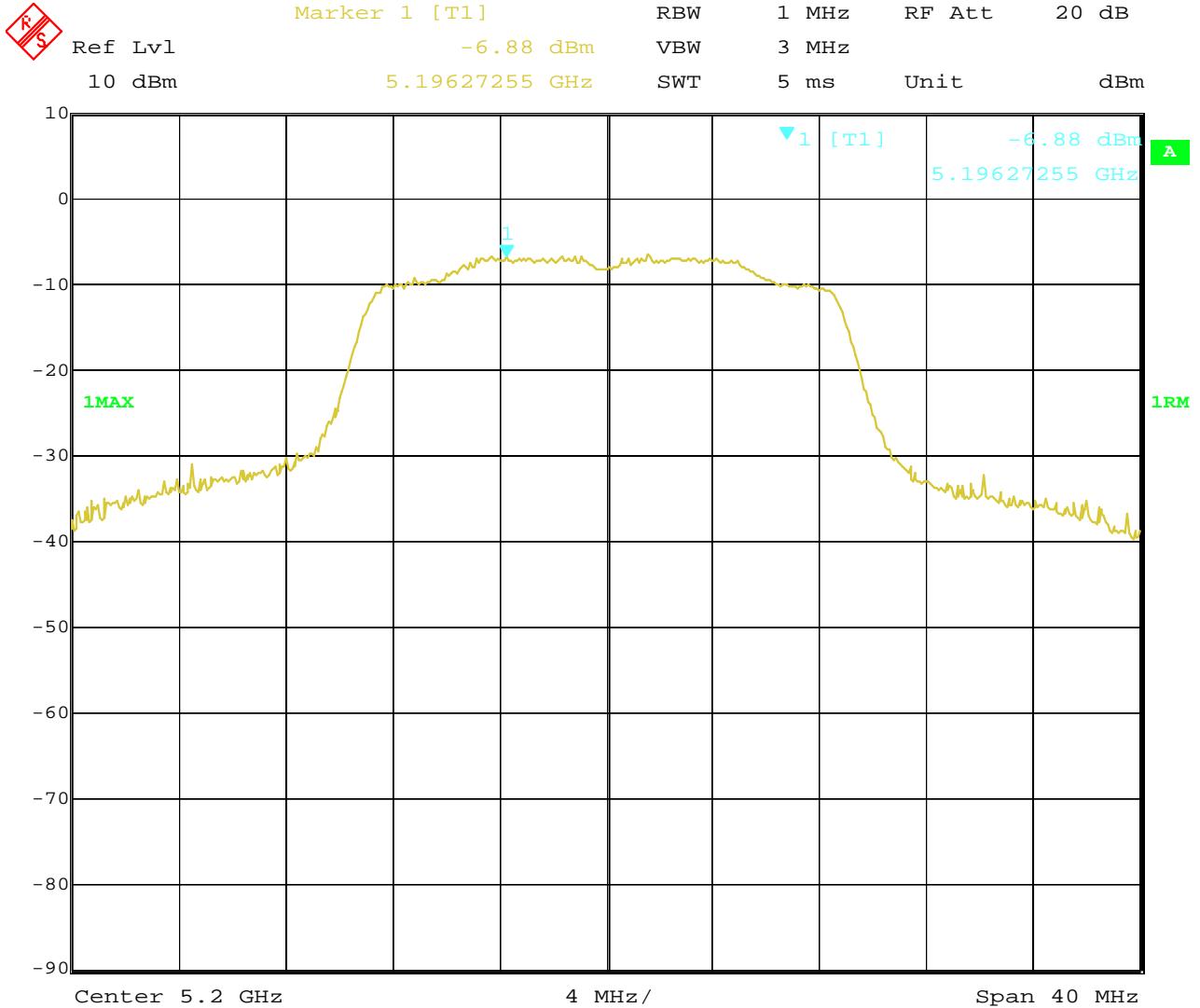
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2.802.11ac at mcs0 of CH40



Date: 14.OCT.2021 17:46:44

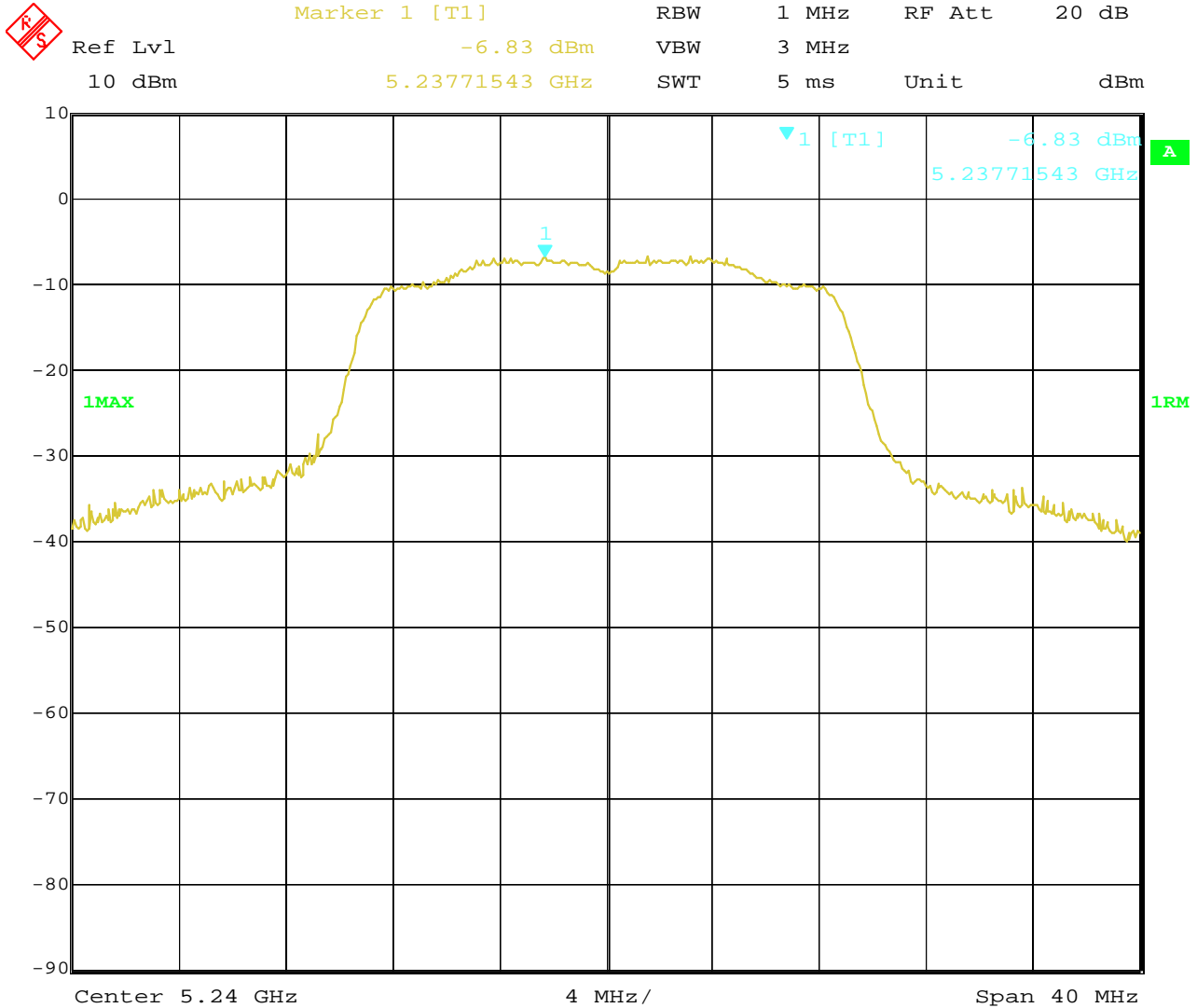
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3.802.11ac at mcs0 of CH48

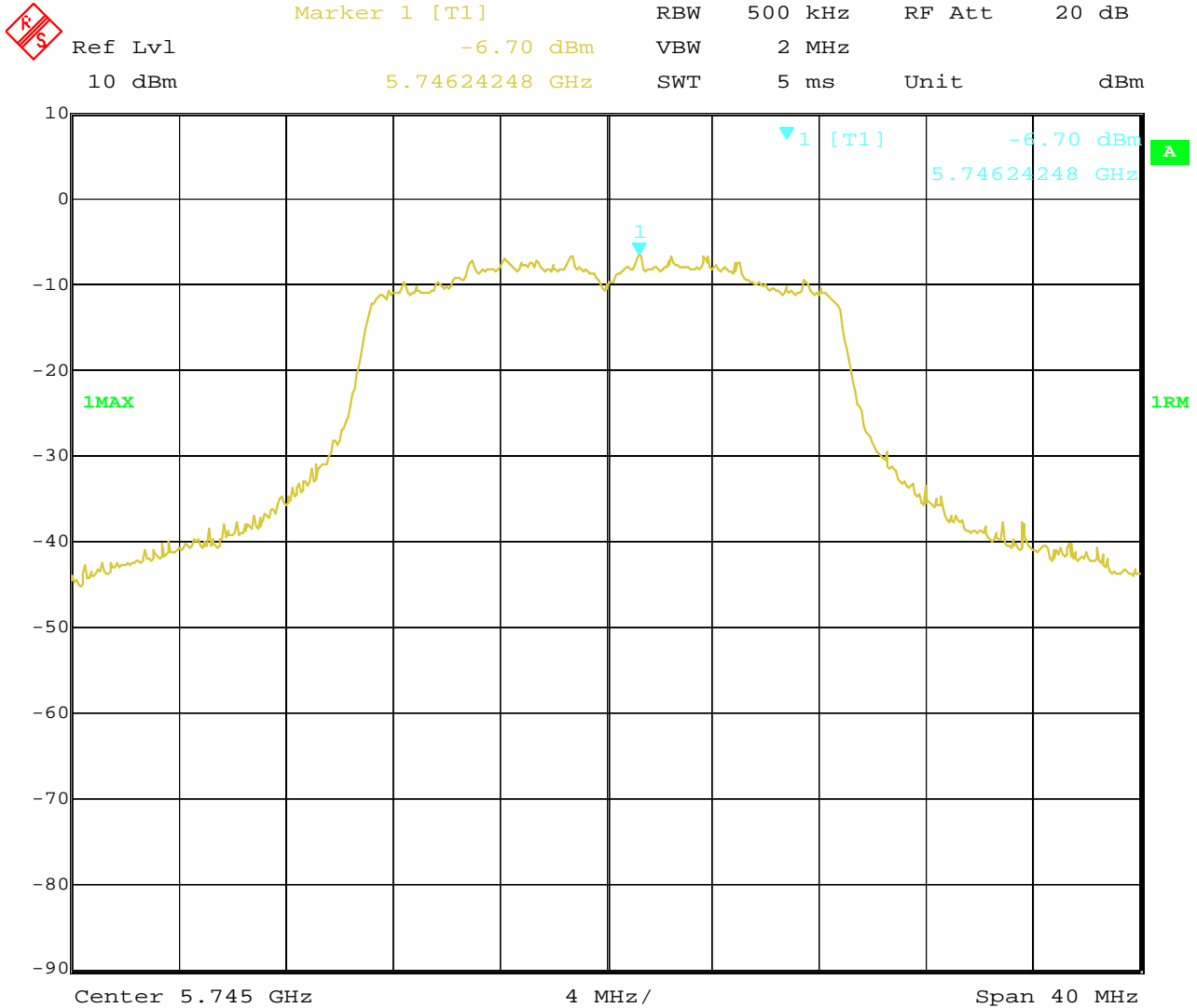


Date: 14.OCT.2021 17:47:06

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4.802.11ac at mcs0 of CH149

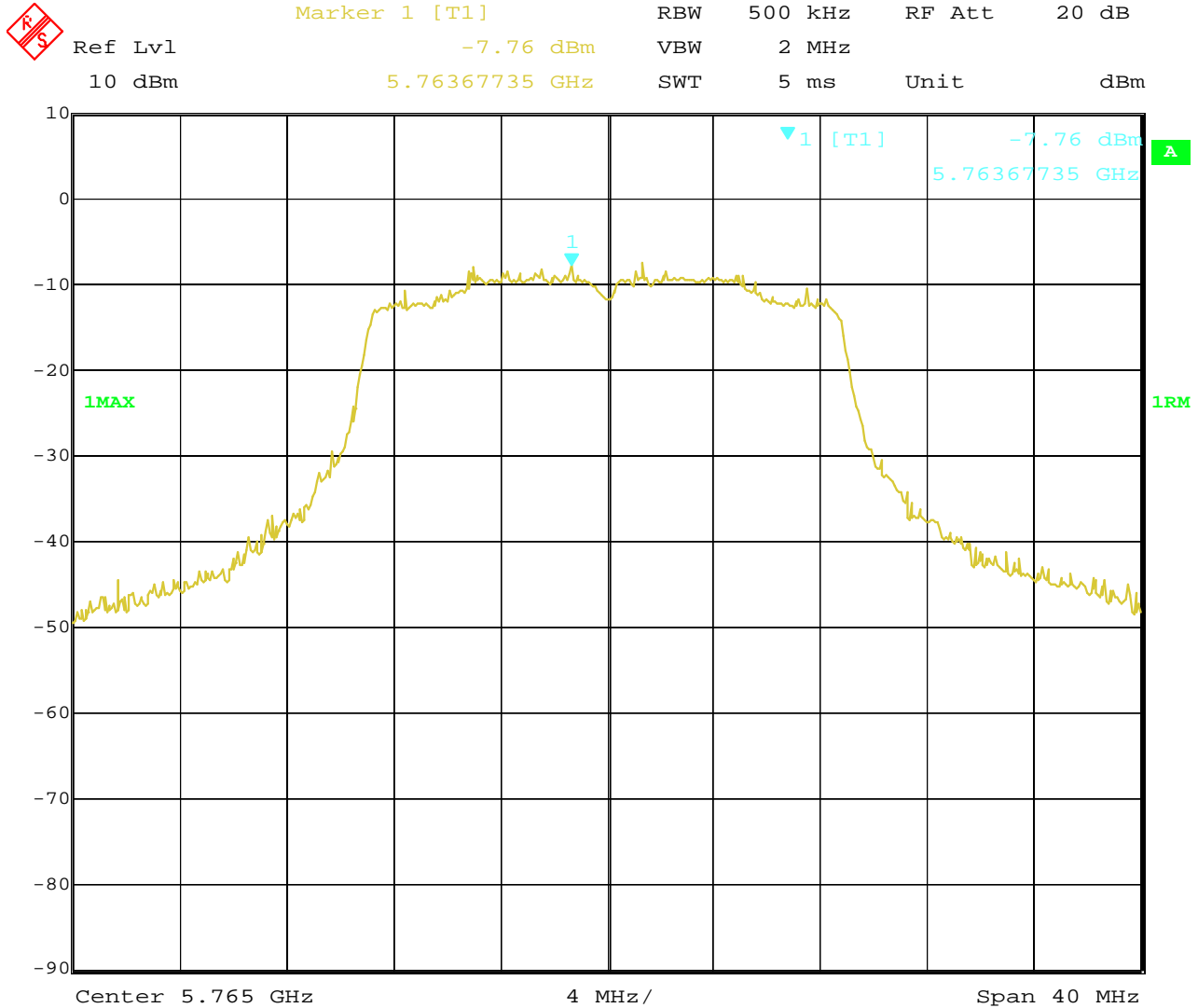


Date: 15.OCT.2021 17:22:57

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5.802.11ac at mcs0 of CH153

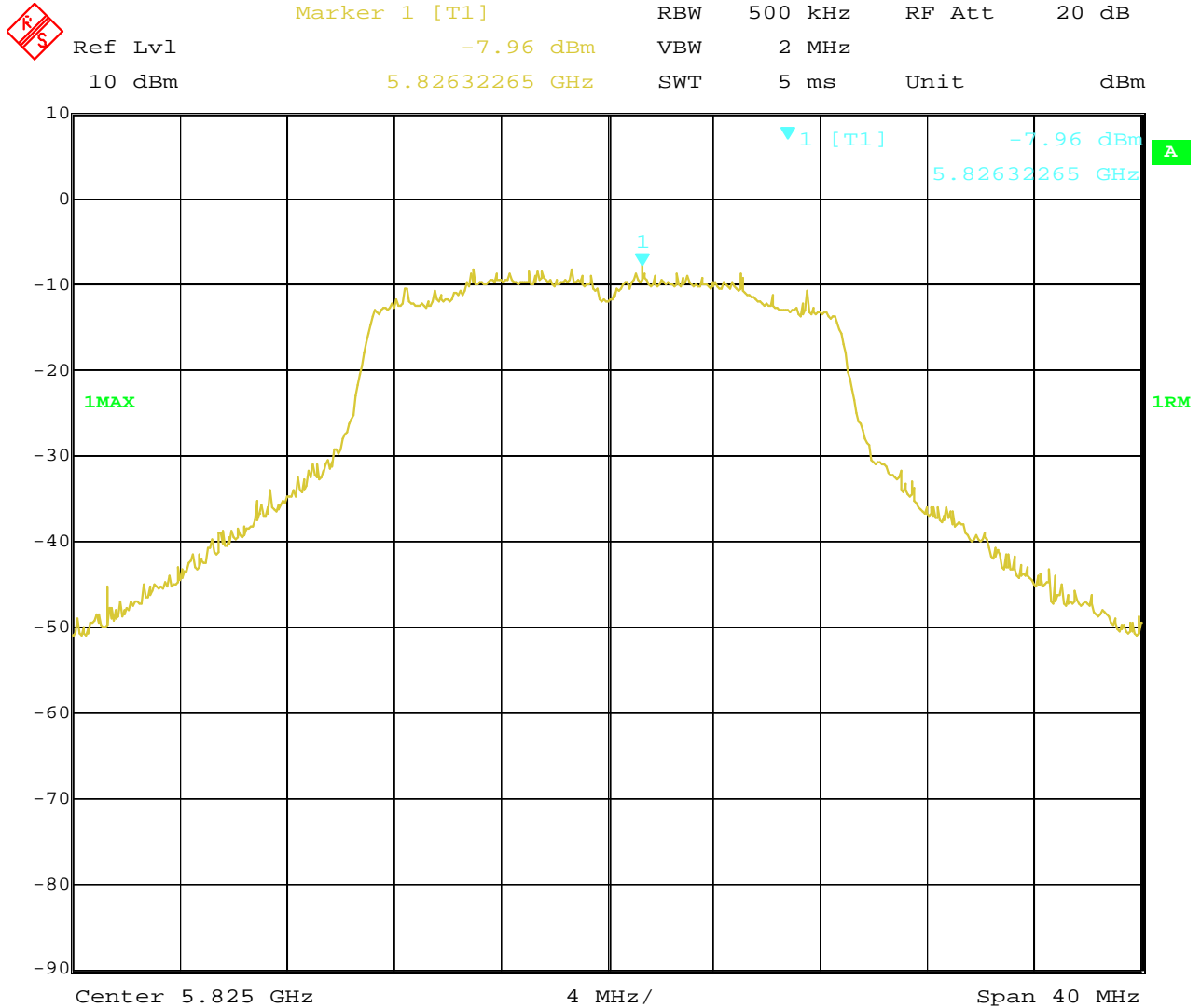


Date: 15.OCT.2021 17:36:53

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6.802.11ac at mcs0 of CH165



Date: 15.OCT.2021 17:36:31

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EUT		Portable Notebook		Model		NP153GK-X	
Mode		802.11ac VHT40		Test Voltage		DC7.6V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
38	5190	-11.61	3.01	-0.94	11	Pass	
46	5230	-8.78	3.01	-1.28	11	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
151	5755	-16.03	3.01	-13.02	30	Pass	
159	5795	-16.92	3.01	-13.91	30	Pass	

Note: Two antennas were tested and only the worst case was recorded in the test report. The Main antenna was the worst case.

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

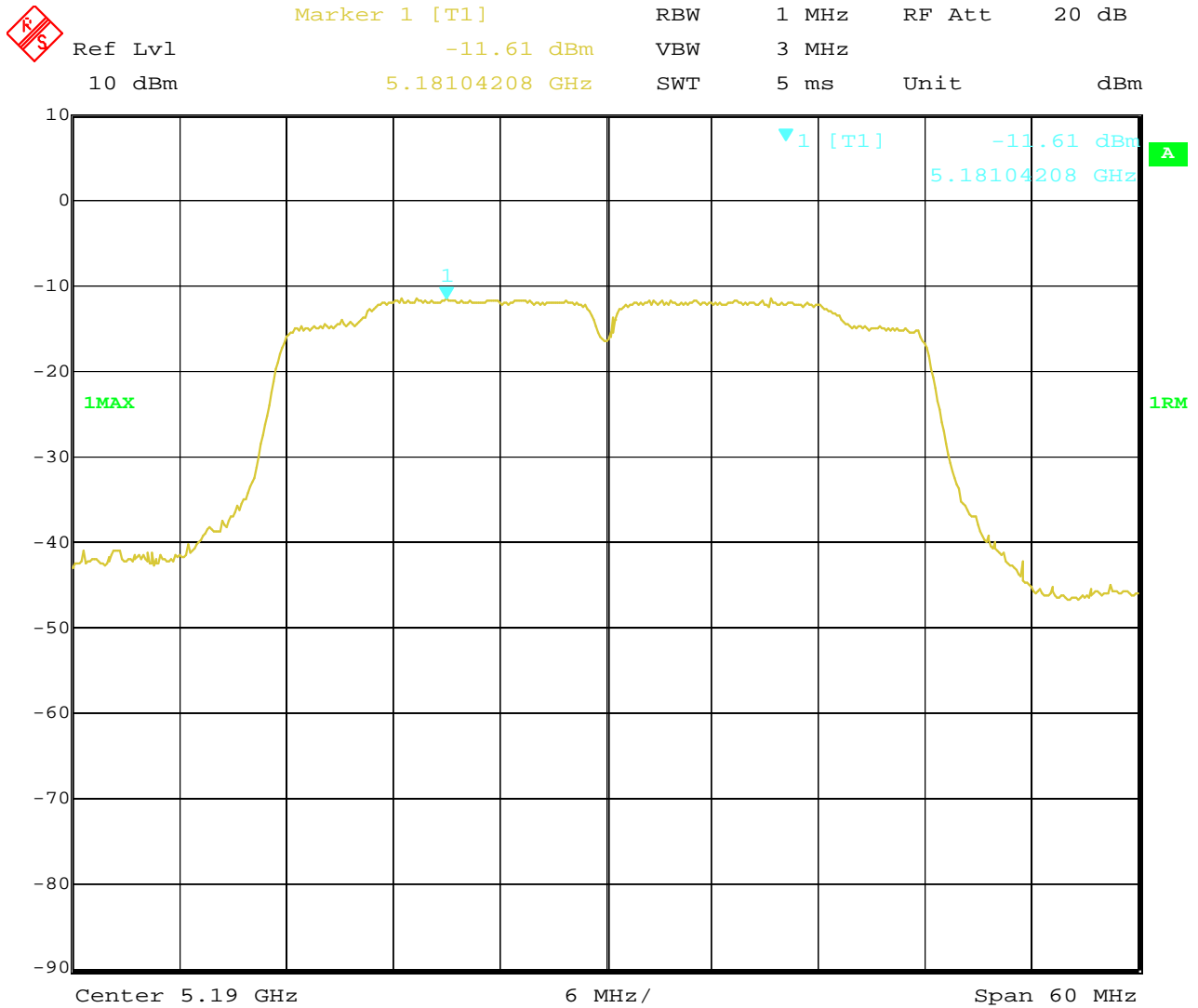
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Test Plots

1.802.11ac at mcs0 of CH38



Date: 15.OCT.2021 10:53:11

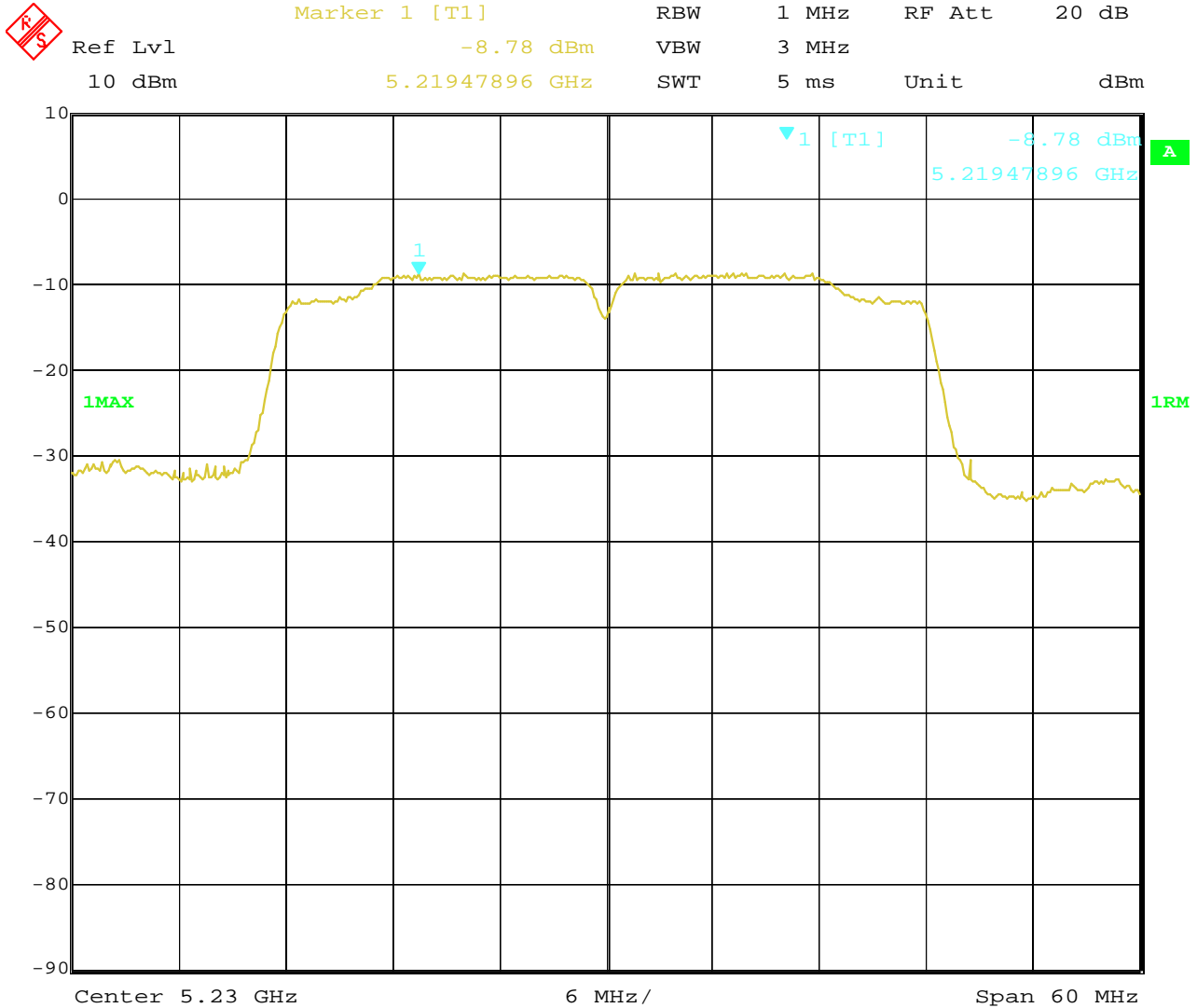
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2.802.11ac at mcs0 of CH46



Date: 15.OCT.2021 10:43:10

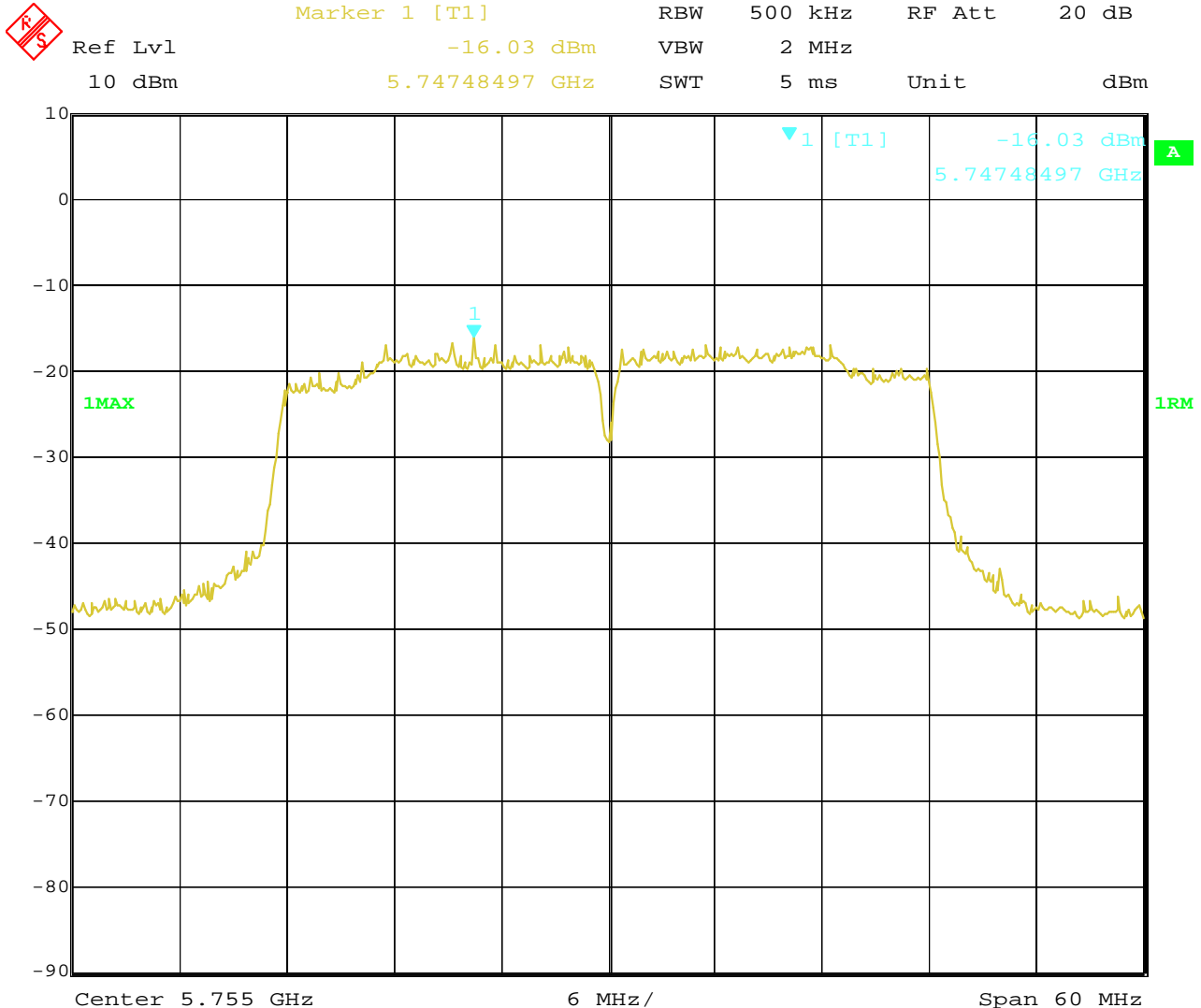
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3.802.11ac at mcs0 of CH151



Date: 15.OCT.2021 18:09:07

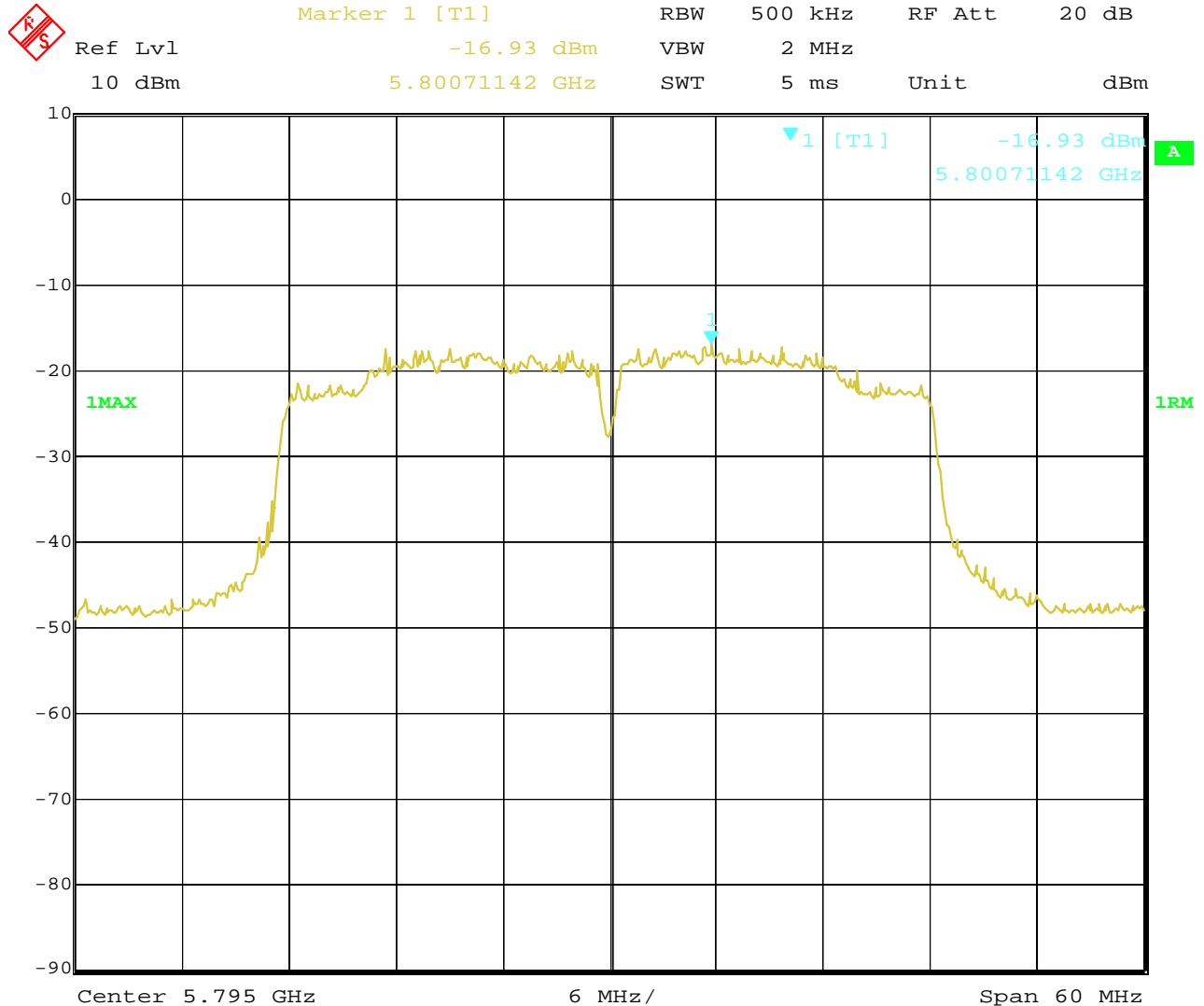
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4.802.11ac at mcs0 of CH159



Date: 15.OCT.2021 18:11:18

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EUT		Portable Notebook		Model		NP153GK-X	
Mode		802.11ac VHT80 mcs0Mbps		Test Voltage		DC7.6V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
42	5210	-12.78	3.01	-9.77	11	Pass	
Channel	Frequency (MHz)	Power Spectral Density(dBm/500kHz)	Factor	Total Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Pass/ Fail	
155	5775	-12.33	3.01	-9.32	30	Pass	

Note: Two antennas were tested and only the worst cased was recorded in the test report. The Main antenna was the worst case.

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

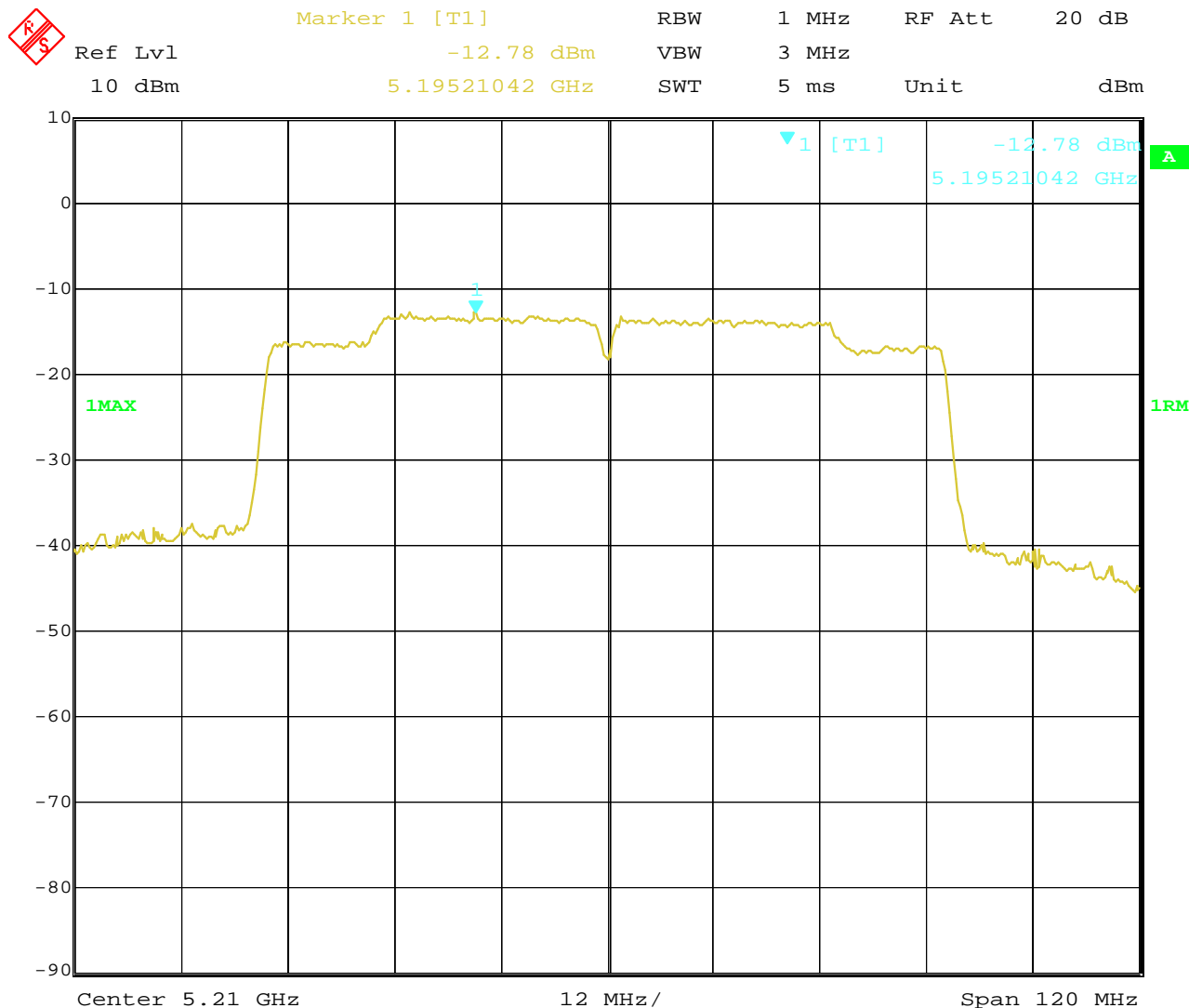
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Test Plots

1.802.11ac at mcs0Mbps of CH42



Date: 15.OCT.2021 11:05:03

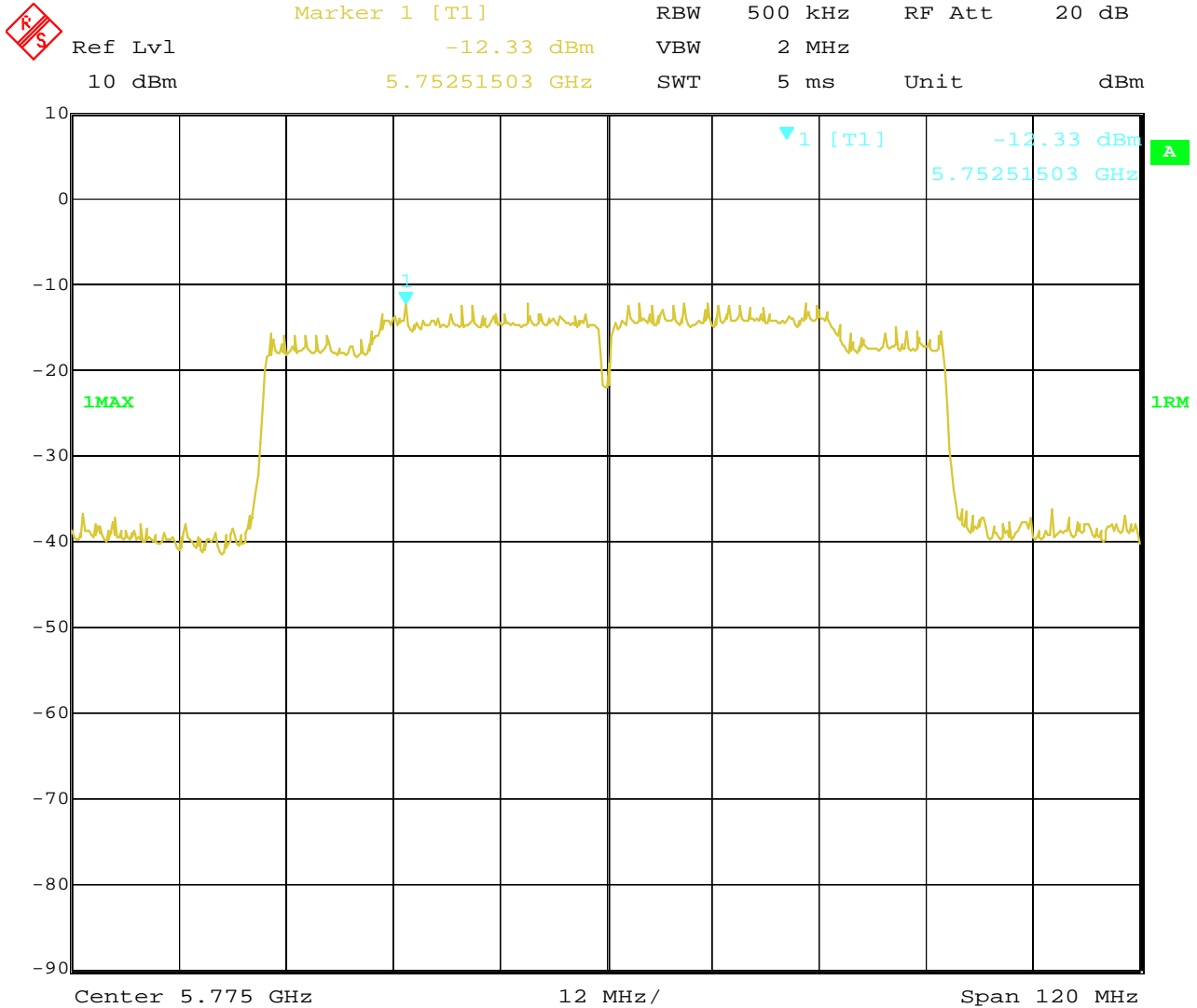
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2.802.11ac at mcs0Mbps of CH155



Date: 15.OCT.2021 18:16:10

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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 $\pm 0.02\%$ 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.

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

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10.3 Test Result

Channel 36 (5180MHz)

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
DC7.6V	5179.9836
DC8.4V	5179.9852
DC6.6V	5179.9861
Max. Deviation (MHz)	0.0164
Max. Deviation (ppm)	3.17

Rated working voltage: DC7.6V

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
-30	5179.9870
-20	5179.9853
-10	5179.9865
0	5179.9851
10	5179.9837
20	5179.9849
30	5179.9853
40	5179.9834
50	5179.9862
Max. Deviation (MHz)	0.0166
Max. Deviation (ppm)	3.20

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

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In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



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 amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Two FPC antenna used. The gain of the antennas is 5.02dBi for each one (Get from the antenna specification provided the manufacturer)

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12.0 FCC Label

FCC ID: RBD-NP153GK

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:



Label Location

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13.0 Photo of testing

Conducted Emission Test Setup:



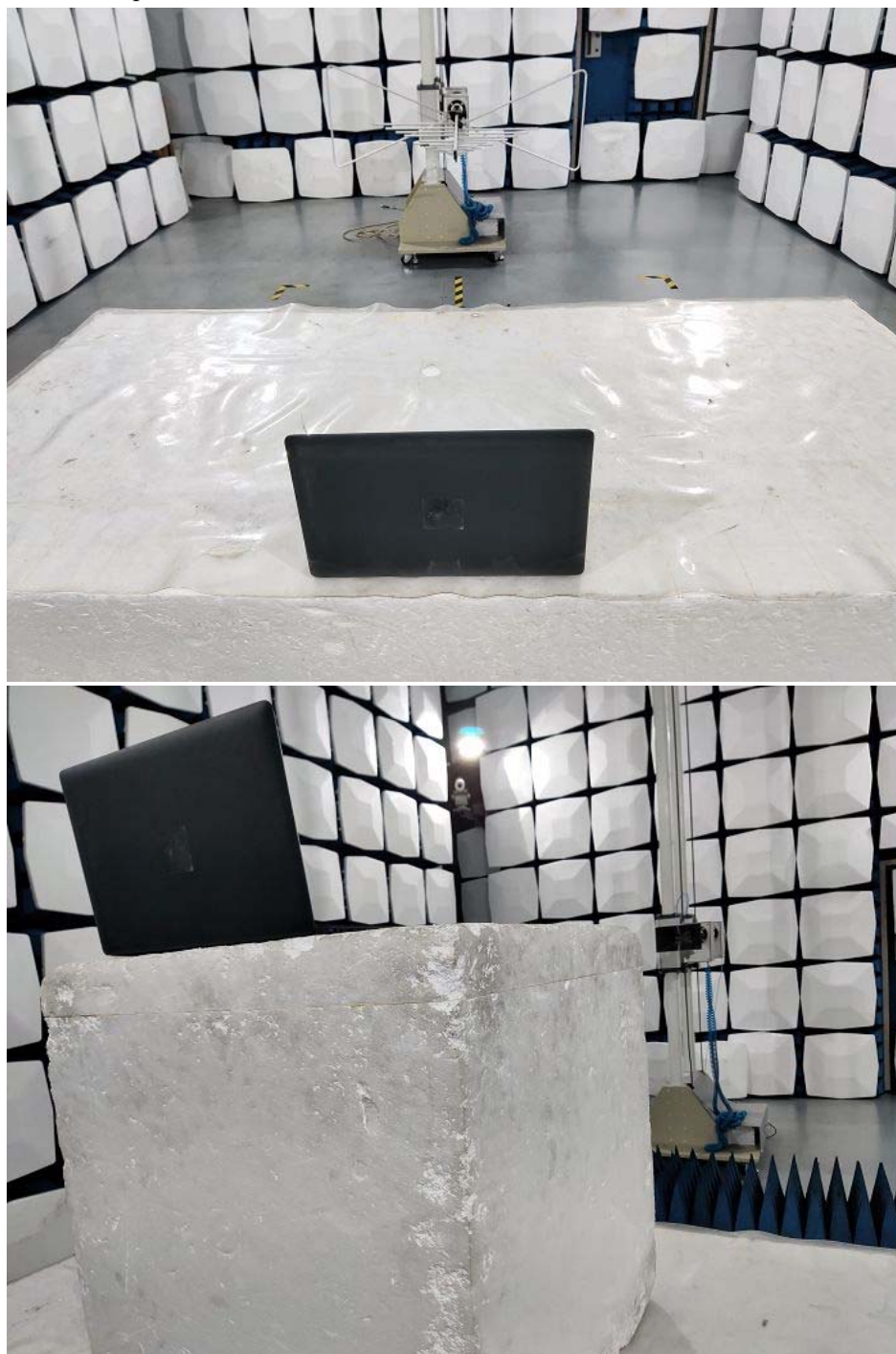
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Radiated Emission Test Setup:



Photographs – EUT

Please refer test report TW2109319-01E

End of the report

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