



Report No.: TWN2601525-02E

Applicant: Nanjing Magewell Electronics CO., Ltd.

Product: Mobile Video Switching Box

Model No.: PR0529A, PR0532A, PR0531A, PR0533A

Trademark: N/A

Test Standards: FCC Part 15 Subpart E, Paragraph 15.407

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15 Subpart C, Paragraph 15.407 for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Terry Tang

Manager

Dated: March 12, 2026



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:

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.

ISED —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of ISED 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

CAB identifier: CN0033

FCC Designation Number: CN1251

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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 ISED of Ottawa, Canada
Registration Number: IC: 5205A-02
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Nanjing Magewell Electronics CO., Ltd.
Address: No. 68-66 Suyuan Avenue, Jiangning Economic and Technological Development Zone, Nanjing, Jiangsu Province, China 211100

1.3 Description of EUT

Product: Mobile Video Switching Box
Manufacturer: Nanjing Magewell Electronics CO., Ltd.
Address: No. 68-66 Suyuan Avenue, Jiangning Economic and Technological Development Zone, Nanjing, Jiangsu Province, China 211100
Brand Name: N/A
Additional Brand Name: N/A
Model Number: PR0529A
Additional Model Number: PR0532A, PR0531A, PR0533A
Serial No.: A123456789012
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
IEEE 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
Frequency Band 1: 5180MHz-5240MHz
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
IEEE 802.11ac: NSS1 mcs0-mcs9
IEEE 802.11ax: NSS1 mcs0-mcs11
Antenna: Two Dipole antenna with reverse polarity antenna connector used. The gain of the antennas is 4.58dBi for both Main Antenna (J7) and Aux Antenna (J9) in the 5G Band

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(Get from the antenna specification provided the manufacturer)

Test Mode: During testing, EUT was set to 100% duty cycle. 6Mbps air data rate was the worst case for 802.11a mode; mcs0 air data rate was the worst case for 802.11n mode; NSS1 mcs0 air data rate was the worst case for 802.11ac mode; NSS1 mcs0 air data rate was the worst case for 802.11ax mode

Frequency Selection By software

Rating: Input: DC12V, 5A

Power Supply: Model: ICP65C-120-5000
Input: 100-240V~, 50/60Hz, 1.5A; Output: DC12.0V, 5.0A, 60.0W

Each Channel Operation Frequency

Band 1					
802.11a / 11n HT20 / 802.11ac VHT20 802.11ax HEW20		802.11n HT40 / 802.11acVHT40 802.11ax HEW40		802.11ac VHT80 802.11ax HEW80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	38	5190 MHz	42	5210 MHz
40	5200 MHz	46	5230 MHz		
44	5220 MHz				
48	5240 MHz				

The selected test channels as follows:

Band 1					
802.11a / 11n HT20 / 11ax HEW20		802.11n HT40 / 11ax HEW 40		802.11ac VHT80 / 11ax HEW80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	38	5190 MHz	42	5210 MHz
40	5200 MHz	46	5230 MHz		
48	5240 MHz				

Note: 802.11ac VHT20/VHT40 and 802.11ax HEW20/HEW40 is similar with 802.11n HT20/HT40.

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1.4 Submitted Sample: 3 Samples

1.5 Test Duration
2026-01-22 to 2026-03-12

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%

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

Andy Xing



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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100253	2025-07-11	2026-07-10
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2025-07-11	2026-07-10
Loop Antenna	EMCO	6507	00078608	2025-07-17	2028-07-16
Spectrum	R&S	FSIQ26	100292	2025-07-11	2026-07-10
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2025-07-17	2028-07-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2025-07-17	2028-07-16
Power meter	Anritsu	ML2487A	6K00003613	2025-07-11	2026-07-10
Power sensor	Anritsu	MA2491A	32263	2025-07-11	2026-07-10
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2025-07-17	2028-07-16
9*6*6 Anechoic	--	--	N/A	2025-07-11	2028-07-10
EMI Test Receiver	RS	ESCS 30	834115/006	2025-07-11	2026-07-10
Spectrum	HP/Agilent	E4407B	MY50441392	2025-07-11	2026-07-10
Spectrum	RS	FSP	1164.4391.38	2025-07-11	2026-07-10
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2025-07-11	2026-07-10
RF Cable	Zhengdi	7m	--	2025-07-11	2026-07-10
Pre-Amplifier	Schwarebeck	BBV9743	#218	2025-07-11	2026-07-10
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2025-07-11	2026-07-10
LISN	SCHAFFNER	NNB42	00012	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10

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 15.407, ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024
789033 D02 General UNII Test Procedures New Rules v01r04

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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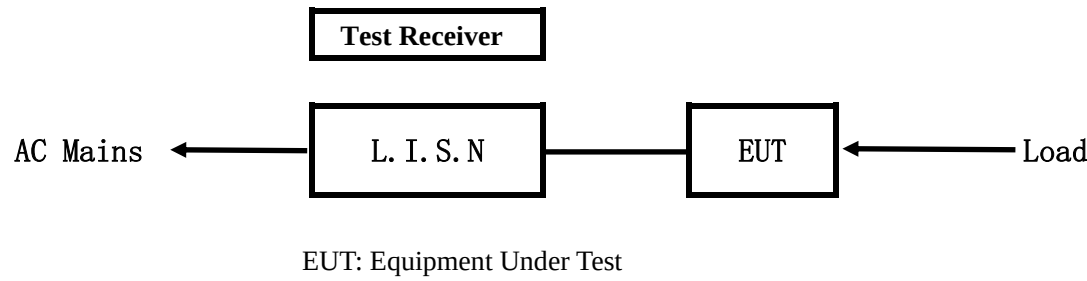
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

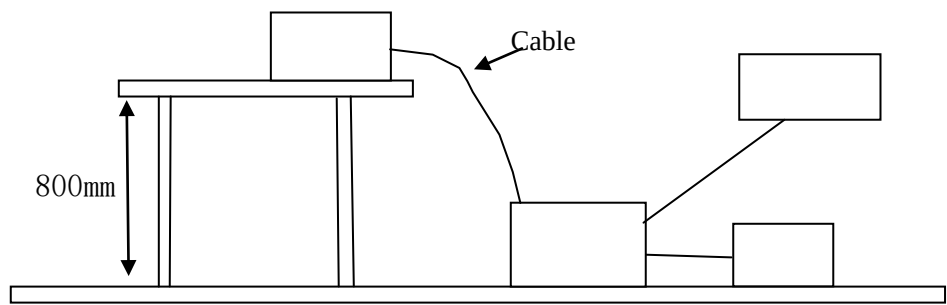


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A.	EUT			
	Device	Manufacturer	Model	FCC ID

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Mobile Video Switching Box	Nanjing Magewell Electronics CO., Ltd.	PR0529A, PR0532A, PR0531A, PR0533A	2AP6W-DIRECTOR55290
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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
PC	ThinkPad	R4	Input: DC19.5V, 2.31A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.0	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)

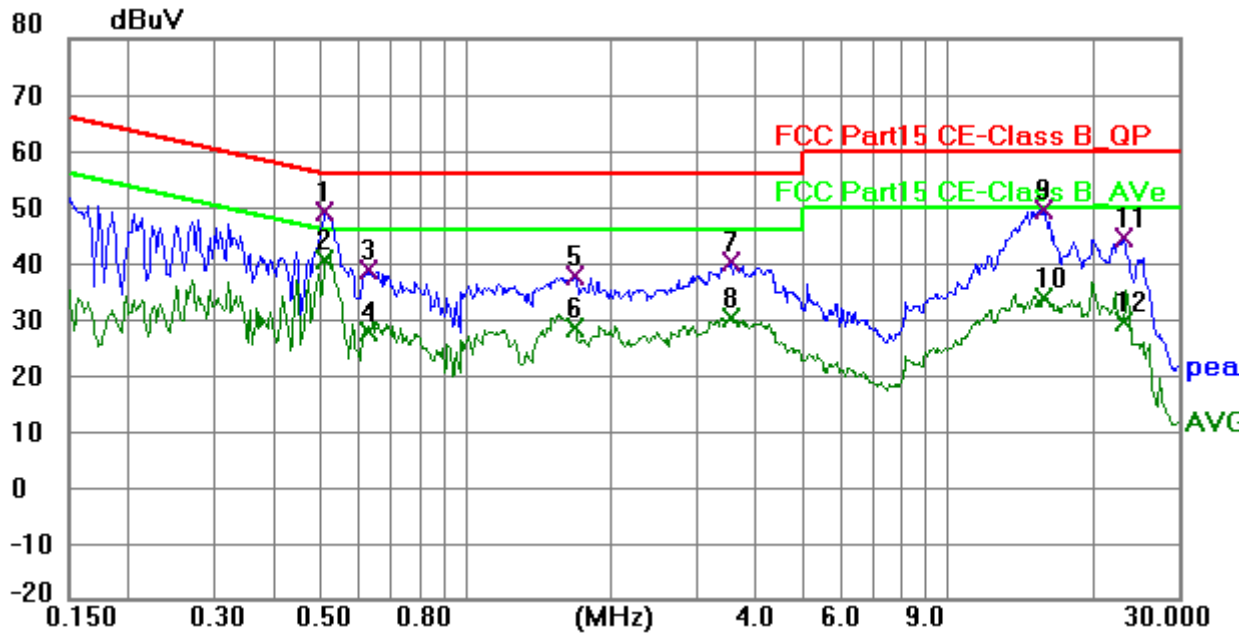
EUT Operating Environment

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	0.5127	38.70	10.38	49.08	56.00	-6.92	QP	P
2	0.5127	30.19	10.38	40.57	46.00	-5.43	AVG	P
3	0.6297	28.41	10.38	38.79	56.00	-17.21	QP	P
4	0.6297	17.26	10.38	27.64	46.00	-18.36	AVG	P
5	1.6866	27.50	10.25	37.75	56.00	-18.25	QP	P
6	1.6866	18.03	10.25	28.28	46.00	-17.72	AVG	P
7	3.5421	29.77	10.28	40.05	56.00	-15.95	QP	P
8	3.5421	19.99	10.28	30.27	46.00	-15.73	AVG	P
9	15.7180	39.08	10.43	49.51	60.00	-10.49	QP	P
10	15.7180	23.26	10.43	33.69	50.00	-16.31	AVG	P
11	23.0928	33.99	10.46	44.45	60.00	-15.55	QP	P
12	23.0928	18.93	10.46	29.39	50.00	-20.61	AVG	P

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

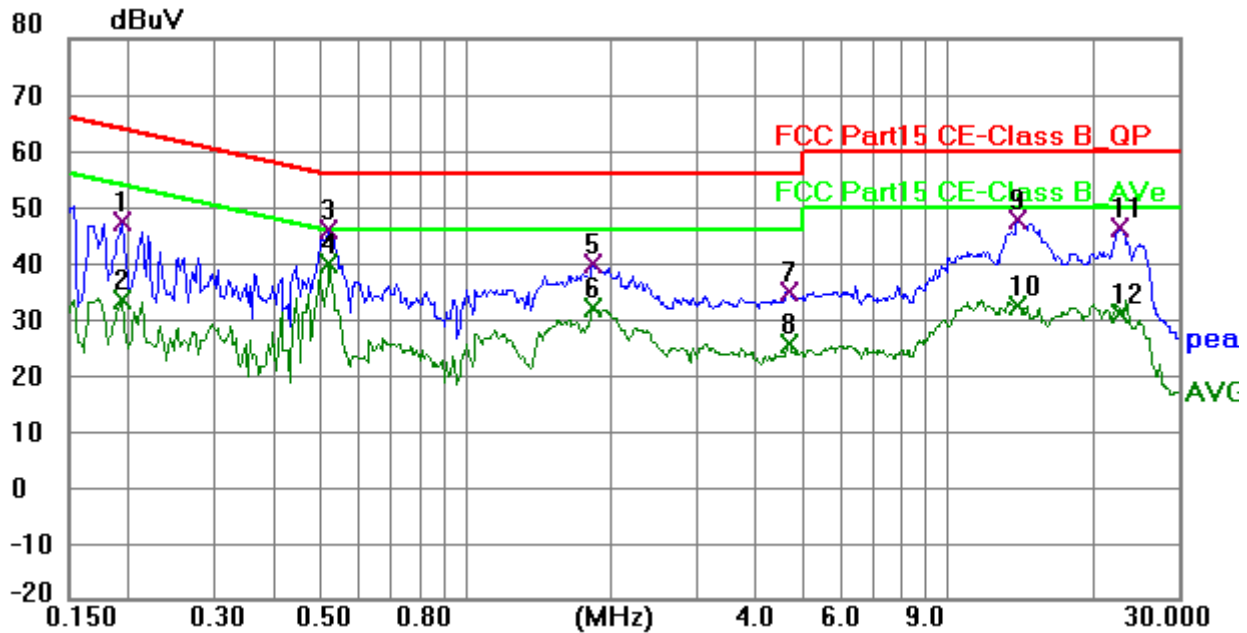
EUT Operating Environment

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	0.1927	37.02	10.13	47.15	63.92	-16.77	QP	P
2	0.1927	23.21	10.13	33.34	53.92	-20.58	AVG	P
3	0.5200	35.52	10.38	45.90	56.00	-10.10	QP	P
4	0.5200	29.50	10.38	39.88	46.00	-6.12	AVG	P
5	1.8306	29.72	10.22	39.94	56.00	-16.06	QP	P
6	1.8306	21.69	10.22	31.91	46.00	-14.09	AVG	P
7	4.6886	24.43	10.25	34.68	56.00	-21.32	QP	P
8	4.6886	15.12	10.25	25.37	46.00	-20.63	AVG	P
9	13.8850	37.22	10.41	47.63	60.00	-12.37	QP	P
10	13.8850	21.92	10.41	32.33	50.00	-17.67	AVG	P
11	22.7529	35.70	10.46	46.16	60.00	-13.84	QP	P
12	22.7529	20.49	10.46	30.95	50.00	-19.05	AVG	P

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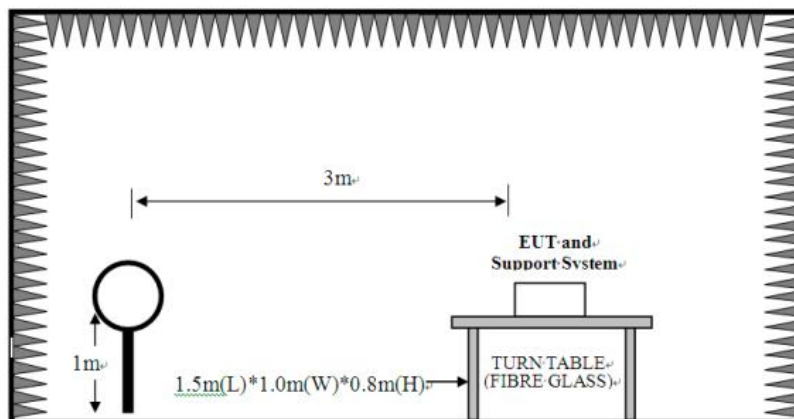
6 Undesirable Emission and Restrict band

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. 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 C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
- (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



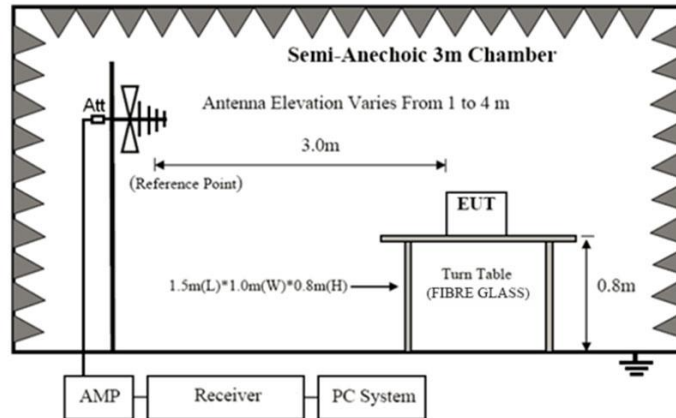
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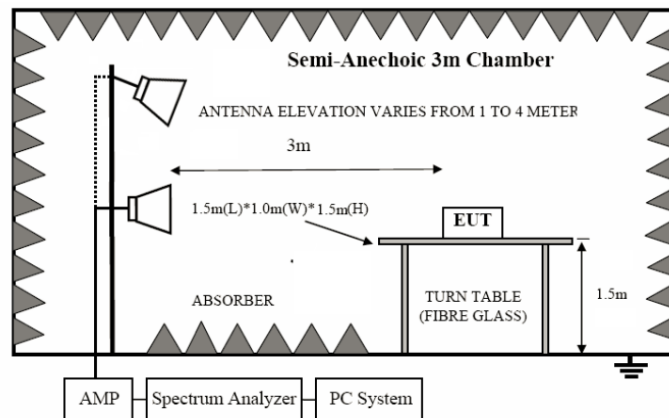
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For radiated emissions from 30MHz to 1GHz



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
 4. MIMO Mode was tested and it was the worst case
 5. 802.11n HT 20 was the worst case
 6. For the radiated emissions from 30MHz-1000MHz, only the worst case was recorded and the middle channel (5200MHz) was the worst case.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: **Keeping WIFI Transmitting**

Test Channel: **Middle (5200MHz)**

Results: **Pass**

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

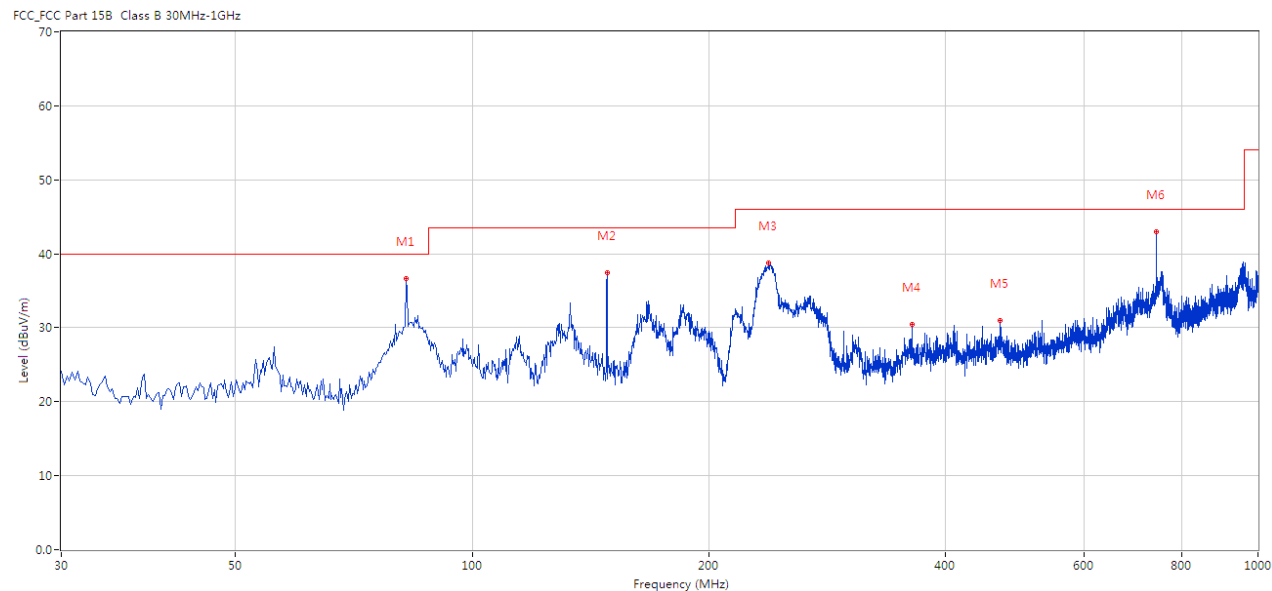
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Test Figure:

H



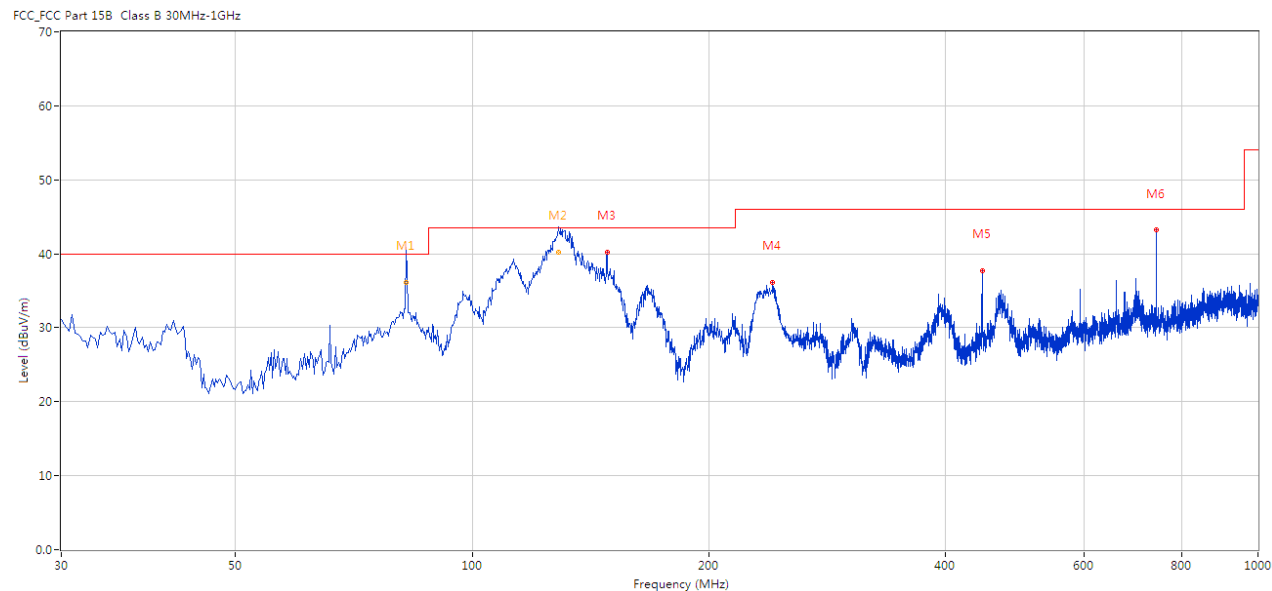
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	82.367	36.66	-12.63	40.0	3.34	Peak	74.00	100	Horizontal	Pass
2	148.553	37.45	-13.40	43.5	6.05	Peak	210.00	100	Horizontal	Pass
3	238.498	38.81	-8.88	46.0	7.19	Peak	18.00	100	Horizontal	Pass
4	362.869	30.49	-5.01	46.0	15.51	Peak	103.00	100	Horizontal	Pass
5	469.785	30.95	-3.43	46.0	15.05	Peak	32.00	100	Horizontal	Pass
6	742.287	42.96	-0.17	46.0	3.04	Peak	3.00	100	Horizontal	Pass

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Test Figure:

V



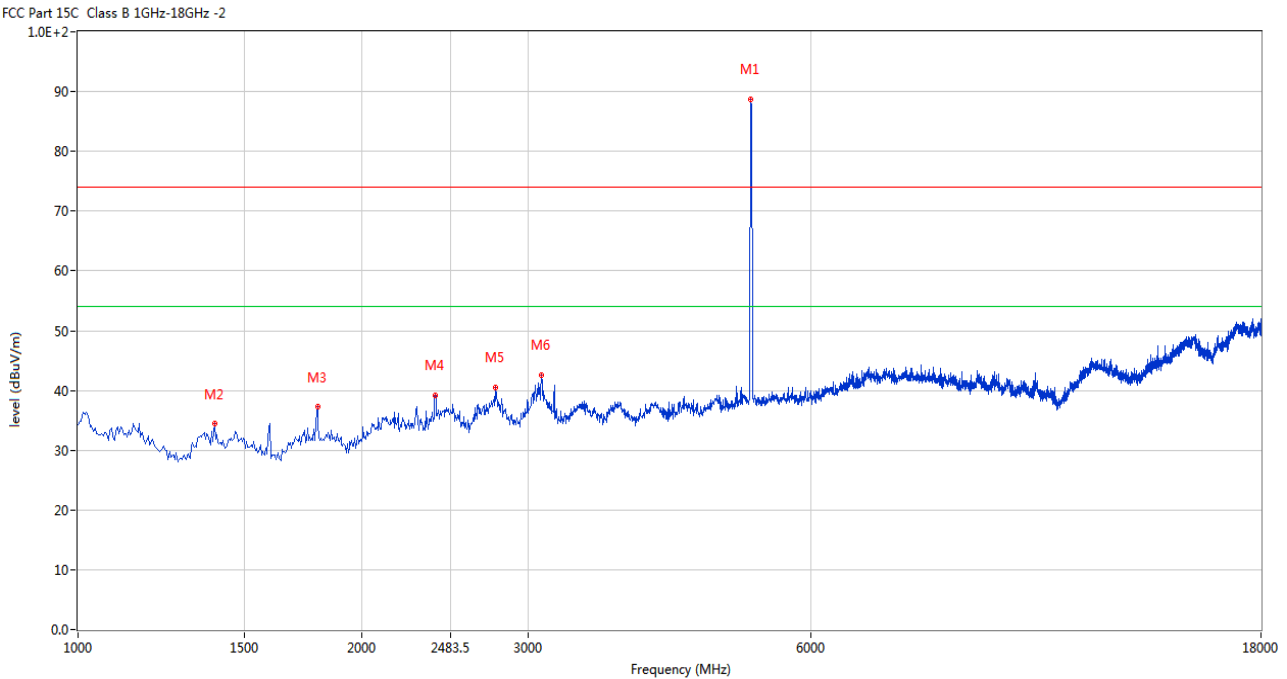
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1*	82.367	36.07	-12.63	40.0	3.93	QP	359.00	100	Vertical	Pass
2*	128.673	40.17	-10.97	43.5	3.33	QP	355.00	100	Vertical	Pass
3	148.553	40.26	-13.40	43.5	3.24	Peak	262.00	100	Vertical	Pass
4	241.407	36.15	-8.91	46.0	9.85	Peak	121.00	100	Vertical	Pass
5	445.541	37.70	-3.99	46.0	8.30	Peak	182.00	100	Vertical	Pass
6	742.529	43.18	-0.16	46.0	2.82	Peak	359.00	100	Vertical	Pass

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Please refer to the following test plots for details:

CH36 for 11n HT20 at mcs0: Vertical

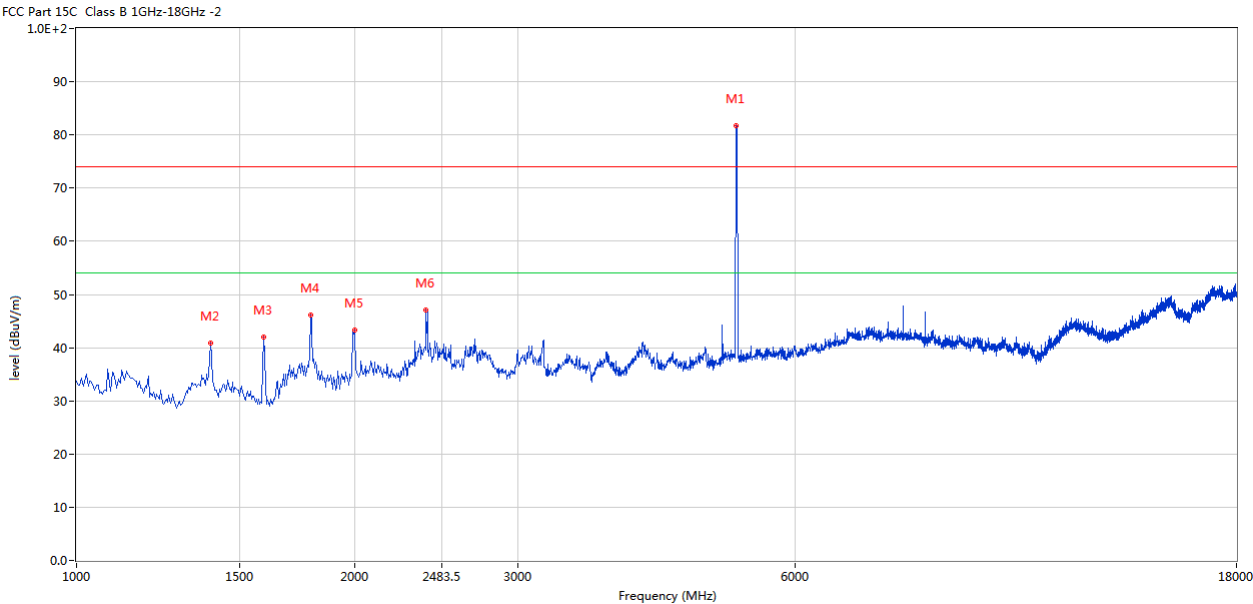


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	5177.750	88.70	3.68	74.0	14.70	Peak	82.00	100	Vertical	N/A
2	1395.250	34.46	-8.17	74.0	-39.54	Peak	137.00	100	Vertical	Pass
3	1794.750	37.21	-6.86	74.0	-36.79	Peak	213.00	100	Vertical	Pass
4	2394.000	39.20	-3.55	74.0	-34.80	Peak	260.00	100	Vertical	Pass
5	2772.250	40.58	-2.77	74.0	-33.42	Peak	224.00	100	Vertical	Pass
6	3099.500	42.65	-2.20	74.0	-31.35	Peak	198.00	100	Vertical	Pass

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CH36 for 11n HT20 at mcs0: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	5177.750	81.82	3.68	74.0	7.82	Peak	91.00	100	Horizontal	N/A
2	1395.250	40.86	-8.17	74.0	-33.14	Peak	243.00	100	Horizontal	Pass
3	1595.000	41.97	-7.98	74.0	-32.03	Peak	143.00	100	Horizontal	Pass
4	1790.500	46.18	-6.89	74.0	-27.82	Peak	312.00	100	Horizontal	Pass
5	1998.750	43.38	-5.12	74.0	-30.62	Peak	4.00	100	Horizontal	Pass
6	2389.750	47.17	-3.53	74.0	-26.83	Peak	277.00	100	Horizontal	Pass

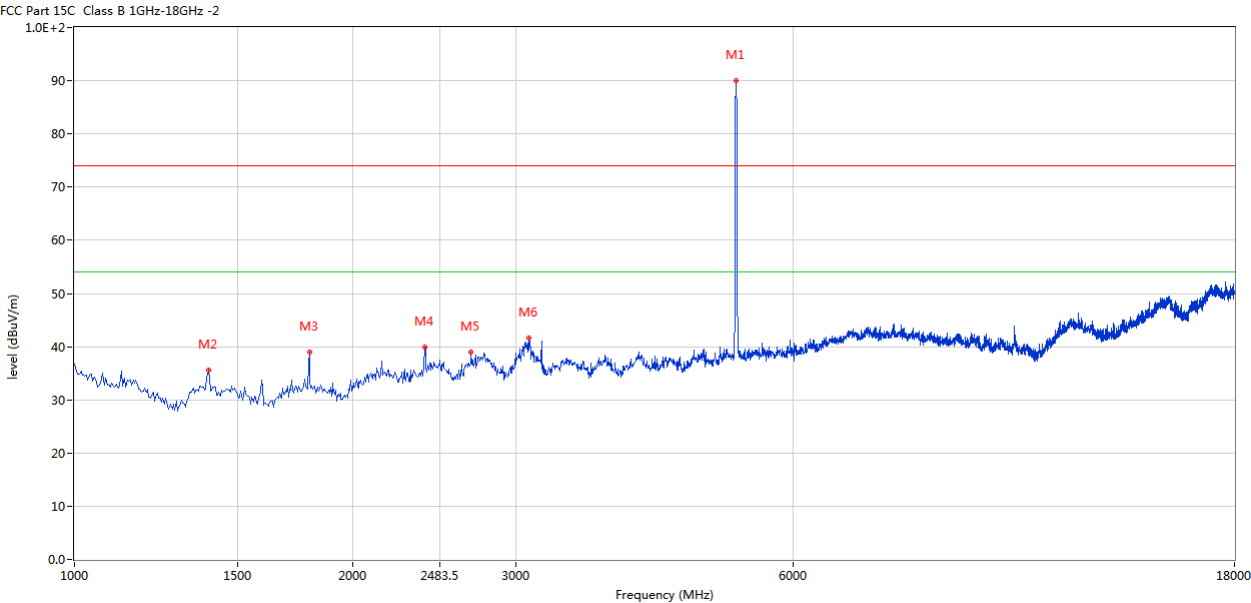
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CH40 for 11n HT20 at mcs0: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	5199.000	89.98	3.65	74.0	15.98	Peak	72.00	100	Vertical	N/A
2	1395.250	35.56	-8.17	74.0	-38.44	Peak	319.00	100	Vertical	Pass
3	1794.750	38.96	-6.86	74.0	-35.04	Peak	199.00	100	Vertical	Pass
4	2394.000	39.85	-3.55	74.0	-34.15	Peak	210.00	100	Vertical	Pass
5	2687.250	39.06	-3.01	74.0	-34.94	Peak	283.00	100	Vertical	Pass
6	3099.500	41.56	-2.20	74.0	-32.44	Peak	213.00	100	Vertical	Pass

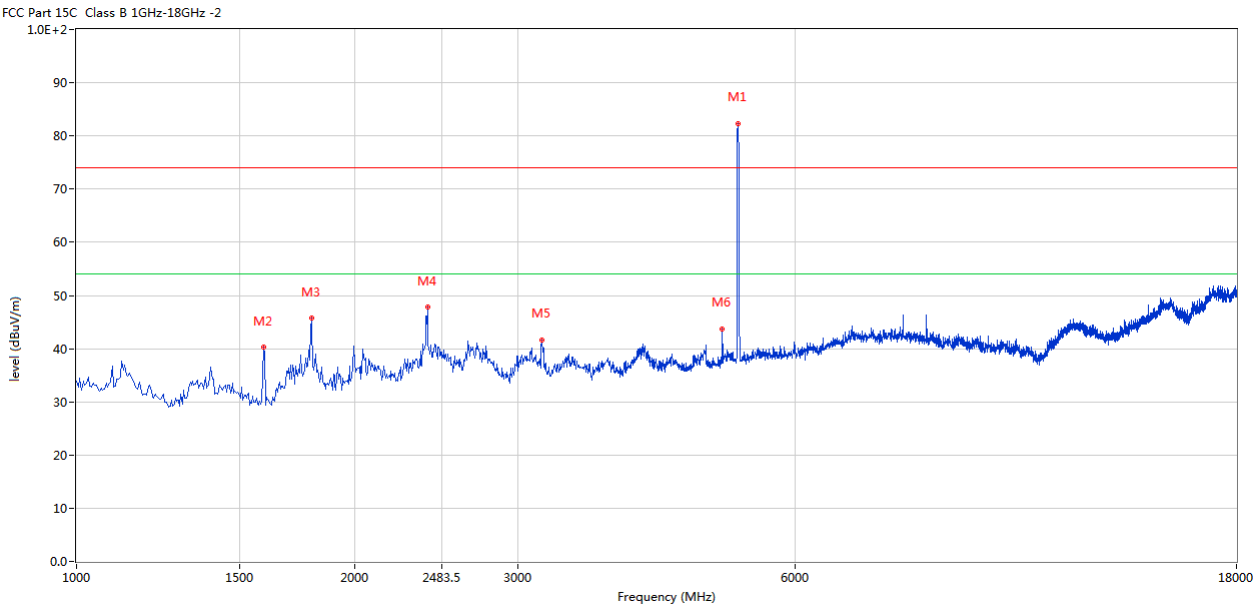
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CH40 for 11n HT20 at mcs0: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	5199.000	82.31	3.65	74.0	8.31	Peak	181.00	100	Horizontal	N/A
2	1595.000	40.38	-7.98	74.0	-33.62	Peak	143.00	100	Horizontal	Pass
3	1794.750	45.67	-6.86	74.0	-28.33	Peak	261.00	100	Horizontal	Pass
4	2398.250	47.78	-3.56	74.0	-26.22	Peak	287.00	100	Horizontal	Pass
5	3188.750	41.62	-2.00	74.0	-32.38	Peak	246.00	100	Horizontal	Pass
6	4999.250	43.65	3.45	74.0	-30.35	Peak	219.00	100	Horizontal	Pass

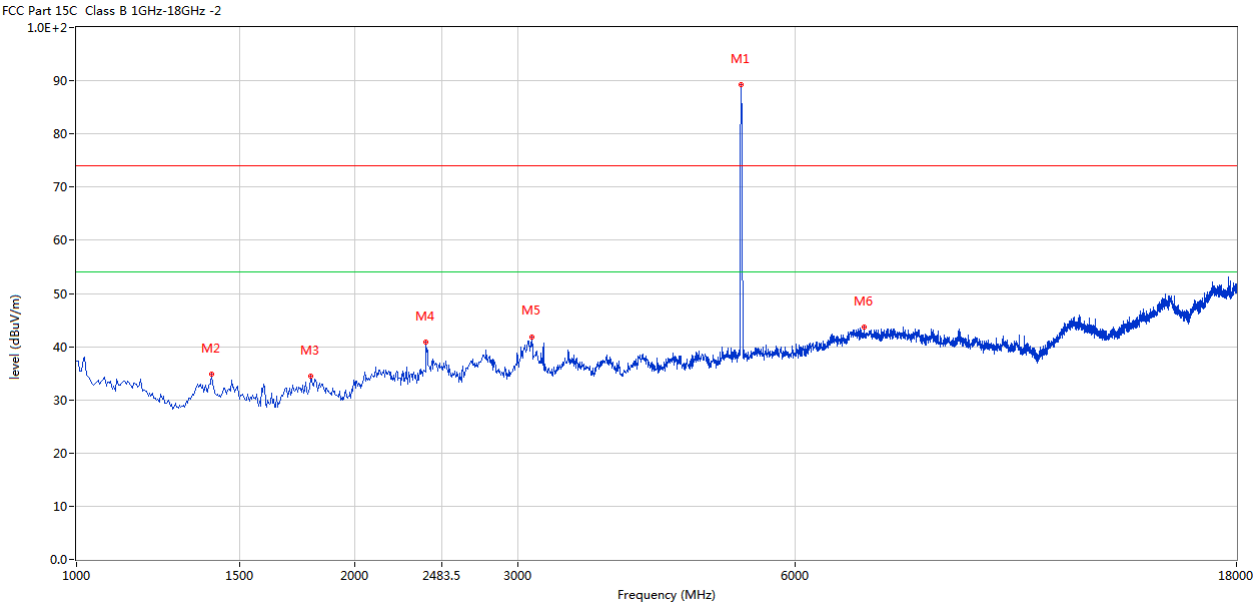
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CH48 for 11n HT20 at mcs0: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	5237.250	89.26	3.58	74.0	15.26	Peak	271.00	100	Vertical	N/A
2	1399.500	34.75	-8.17	74.0	-39.25	Peak	291.00	100	Vertical	Pass
3	1790.500	34.55	-6.89	74.0	-39.45	Peak	279.00	100	Vertical	Pass
4	2389.750	40.79	-3.53	74.0	-33.21	Peak	337.00	100	Vertical	Pass
5	3108.000	41.87	-2.18	74.0	-32.13	Peak	176.00	100	Vertical	Pass
6	7111.500	43.62	8.05	74.0	-30.38	Peak	20.00	100	Vertical	Pass

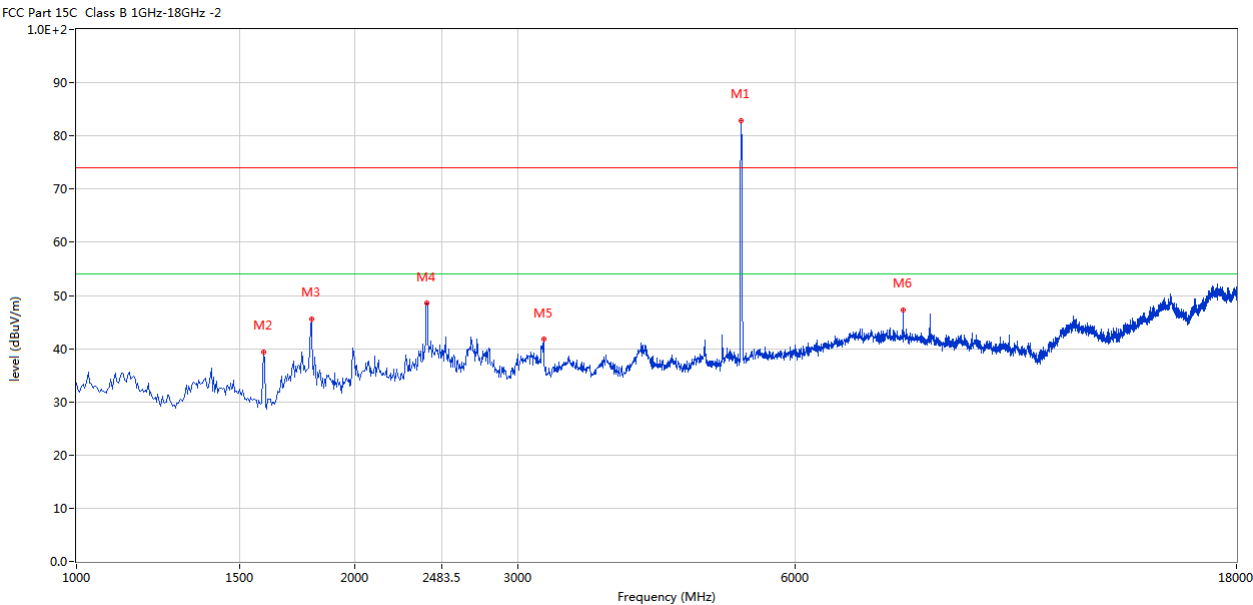
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CH48 for 11n HT20 at mcs0: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	5233.000	82.87	3.59	74.0	8.87	Peak	90.00	100	Horizontal	N/A
2	1595.000	39.37	-7.98	74.0	-34.63	Peak	145.00	100	Horizontal	Pass
3	1794.750	45.62	-6.86	74.0	-28.38	Peak	268.00	100	Horizontal	Pass
4	2394.000	48.54	-3.55	74.0	-25.46	Peak	284.00	100	Horizontal	Pass
5	3201.500	41.79	-1.97	74.0	-32.21	Peak	339.00	100	Horizontal	Pass
6	7846.750	47.35	8.40	74.0	-26.65	Peak	220.00	100	Horizontal	Pass

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

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Restricted band Measurement			
EUT	Mobile Video Switching Box		Test Mode:
Mode	Keeping Transmitting		Channel 36 (5180MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5150	PK (dBμV/m)	52.3	56% RH
	EIRP (dBm)	-42.9	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 $\text{E[dB}\mu\text{V/m]} = 52.3 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 52.3 - 95.2 = -42.9 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Mobile Video Switching Box		Test Mode:
Mode	Keeping Transmitting		Channel 36 (5180MHz)-11a
Temperature	24 deg. C,		Input Voltage
Test Result:	Pass		Humidity
5150	PK (dBμV/m)	43.7 (PK)	56% RH
	EIRP (dBm)	-51.5	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 $\text{E[dB}\mu\text{V/m]} = 43.7 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 43.7 - 95.2 = -51.5 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 48 (5240MHz)-11a
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	52.9 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-42.3		
Polarity	Vertical			

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 52.9\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 52.9 - 95.2 = -42.3\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 48 (5240MHz)-11a
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	44.8 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-50.4		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 44.8\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 44.8 - 95.2 = -50.4\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	52.3(PK)	Limit	-27dBm/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 $\text{E[dB}\mu\text{V/m]} = 52.3 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 52.3 - 95.2 = -42.9 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 36 (5180MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	46.4 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-48.8		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 46.4 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.4 - 95.2 = -48.8 \text{ dBm}$$

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	Mobile Video Switching Box		Test Mode:	Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	53.9(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-41.3		
Polarity	Vertical			

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 53.9\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.9 - 95.2 = -41.3\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 48 (5240MHz)-11n/HT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	46.5(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-48.7		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 46.5\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.5 - 95.2 = -48.7\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	52.2(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-43.0		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 52.2\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 52.2 - 95.2 = -43.0\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 38 (5190MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	46.1(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.1		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 46.1\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.1 - 95.2 = -49.1\text{dBm}$$

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	Mobile Video Switching Box		Test Mode:	Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	53.6(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-41.6		
Polarity	Vertical			

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 53.6\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.6 - 95.2 = -41.6\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 46 (5230MHz)-11n/HT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	48.2(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-46.0		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 48.2\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 48.2 - 95.2 = -47.0\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 36 (5180MHz)-11ac VHT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	52.3(PK)	Limit	-27dBm/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 $\text{E[dB}\mu\text{V/m]} = 52.3 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 52.3 - 95.2 = -42.9 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 36 (5180MHz)-11ac VHT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	43.2 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-52.0		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 43.2 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 43.2 - 95.2 = -52.0 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 48 (5240MHz)- 11ac VHT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	53.6 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-41.6		
Polarity	Vertical			

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 53.6\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.6 - 95.2 = -41.6\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 48 (5240MHz)- 11ac VHT20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	46.6 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-48.6		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 46.6\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.6 - 95.2 = -48.6\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 38 (5190MHz)-11ac VHT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	52.1(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-43.1		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 52.1 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 52.1 - 95.2 = -43.1 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 38 (5190MHz)-11ac VHT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	44.0 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-51.2		
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 $\text{E[dB}\mu\text{V/m]} = 44.0 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 44.0 - 95.2 = -51.2 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 46 (5230MHz)- 11ac VHT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	53.5(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-41.7		
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 E[dB μV/m]= 53.5dB μV/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.5 - 95.2 = -41.7\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 46 (5230MHz)- 11ac VHT40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	45.8(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.4		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if E[dB μV/m]= 45.8dB μV/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 45.8 - 95.2 = -49.4\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 42 (5210MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	52.2 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-43.0		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 52.2 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 52.2 - 95.2 = -43.0 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 42 (5210MHz)- 11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	46.4 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-48.8		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 46.4 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.4 - 95.2 = -48.8 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 42 (5210MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	53.3(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-41.9		
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 $\text{E[dB}\mu\text{V/m]} = 53.3\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.3 - 95.2 = -41.9\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 42 (5210MHz)-11ac/VHT80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	45.1(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-50.1		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 45.1\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 45.1 - 95.2 = -50.1\text{dBm}$$

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	Mobile Video Switching Box		Test Mode:	Channel 36 (5180MHz)-11ax HEW20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	51.5(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-43.7		
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 $\text{E[dB}\mu\text{V/m]} = 51.5 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 51.5 - 95.2 = -43.7 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 36 (5180MHz)- 11ax HEW20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	44.1 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-51.1		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 44.1 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 44.1 - 95.2 = -51.1 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 48 (5240MHz)- 11ax HEW20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	53.2 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-42.0		
Polarity	Vertical			

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if E[dBμV/m]= 53.2dBμV/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.2 - 95.2 = -42.0\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 48 (5240MHz)- 11ax HEW20
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	45.3 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.9		
Polarity	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 E[dBμV/m]= 45.3dBμV/m,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 45.3 - 95.2 = -49.9\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 38 (5190MHz)- 11ax HEW40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	53.5(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-41.7		
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 $\text{E[dB}\mu\text{V/m]} = 53.5 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.5 - 95.2 = -41.7 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 38 (5190MHz)- 11ax HEW40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	44.2 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-51.0		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 44.2 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 44.2 - 95.2 = -51.0 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 46 (5230MHz)- 11ax HEW40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	53.9(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-41.3		
Polarity	Vertical			

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 53.9\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.9 - 95.2 = -41.3\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 46 (5230MHz)- 11ax HEW40
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	46.6(PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-48.6		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 46.6\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 46.6 - 95.2 = -48.6\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 42 (5210MHz)-11ax/HEW80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	53.8 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-41.4		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 53.8 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.8 - 95.2 = -41.4 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 42 (5210MHz)-11ax/HEW80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5150	PK (dBμV/m)	45.6 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-49.6		
Polarity	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 $\text{E[dB}\mu\text{V/m]} = 45.6 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 45.6 - 95.2 = -49.6 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 42 (5210MHz)-11ax/HEW80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	56.2 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-39.0		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 56.2 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 56.2 - 95.2 = -39.0 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Mobile Video Switching Box		Test Mode:	Channel 42 (5210MHz)-11ax/HEW80
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5250	PK (dBμV/m)	47.9 (PK)	Limit	-27dBm/MHz
	EIRP (dBm)	-47.3		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

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

For Example, if $\text{E[dB}\mu\text{V/m]} = 47.9 \text{ dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 47.9 - 95.2 = -47.3 \text{ dBm}$$

2. RBW=1MHz, VBW=3MHz

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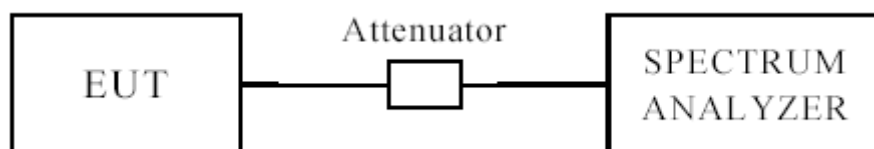
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7.0 Emission Bandwidth

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

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7.6 Test Result

EUT	Mobile Video Switching Box		Model	PR0529A	
Mode	802.11a		Input Voltage	120V~	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
36	5180	6	22.80	--	Pass
40	5200	6	22.68	--	Pass
48	5240	6	22.68	--	Pass
99% Bandwidth					
36	5180	6	16.92	--	Pass
40	5200	6	16.98	--	Pass
48	5240	6	16.92	--	Pass

Note: Two antennas (J7 and J9) were tested and only the worst case was recorded in the test report. J7 was the worst case.

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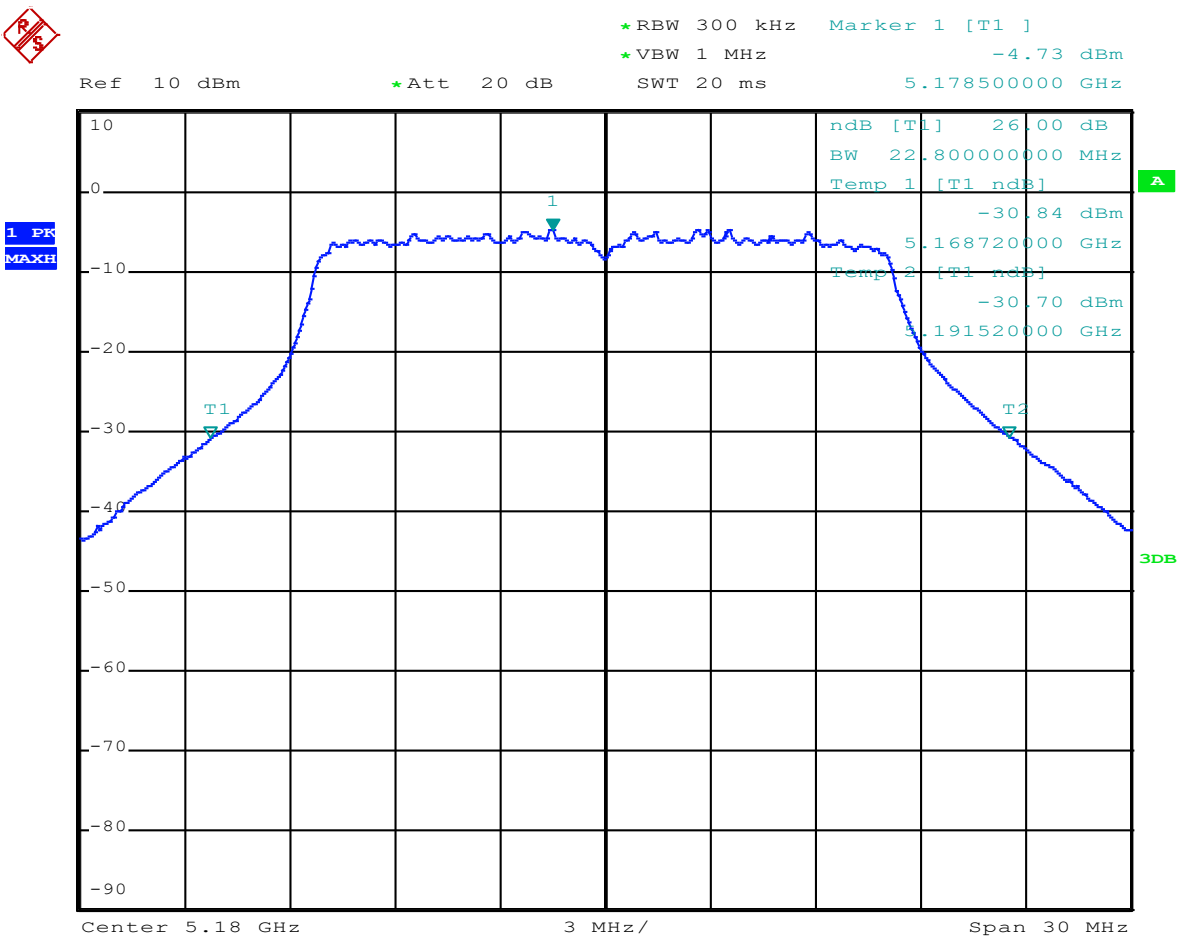
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Test Figure:

26dB Bandwidth

Channel 36

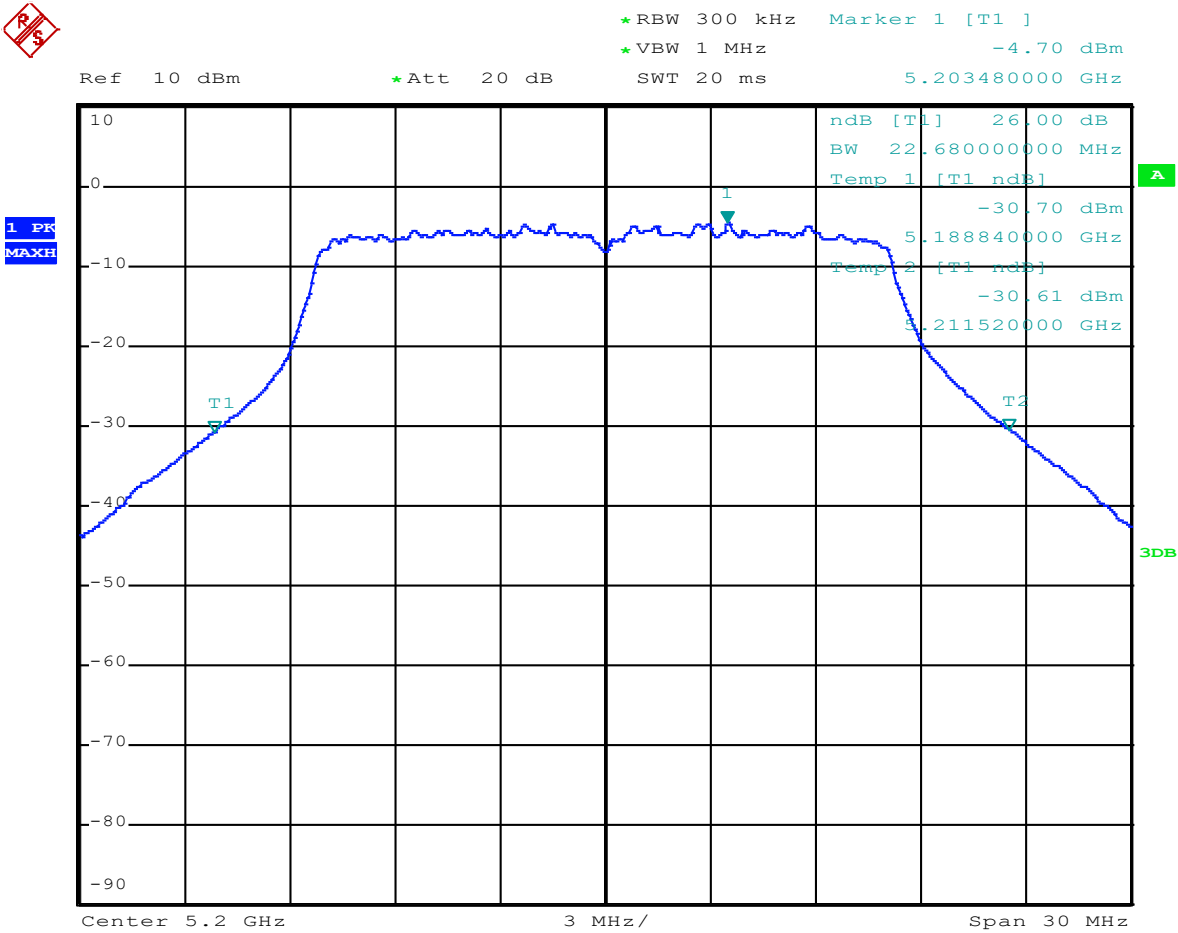


Date: 5.MAR.2026 16:50:36

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Channel 40



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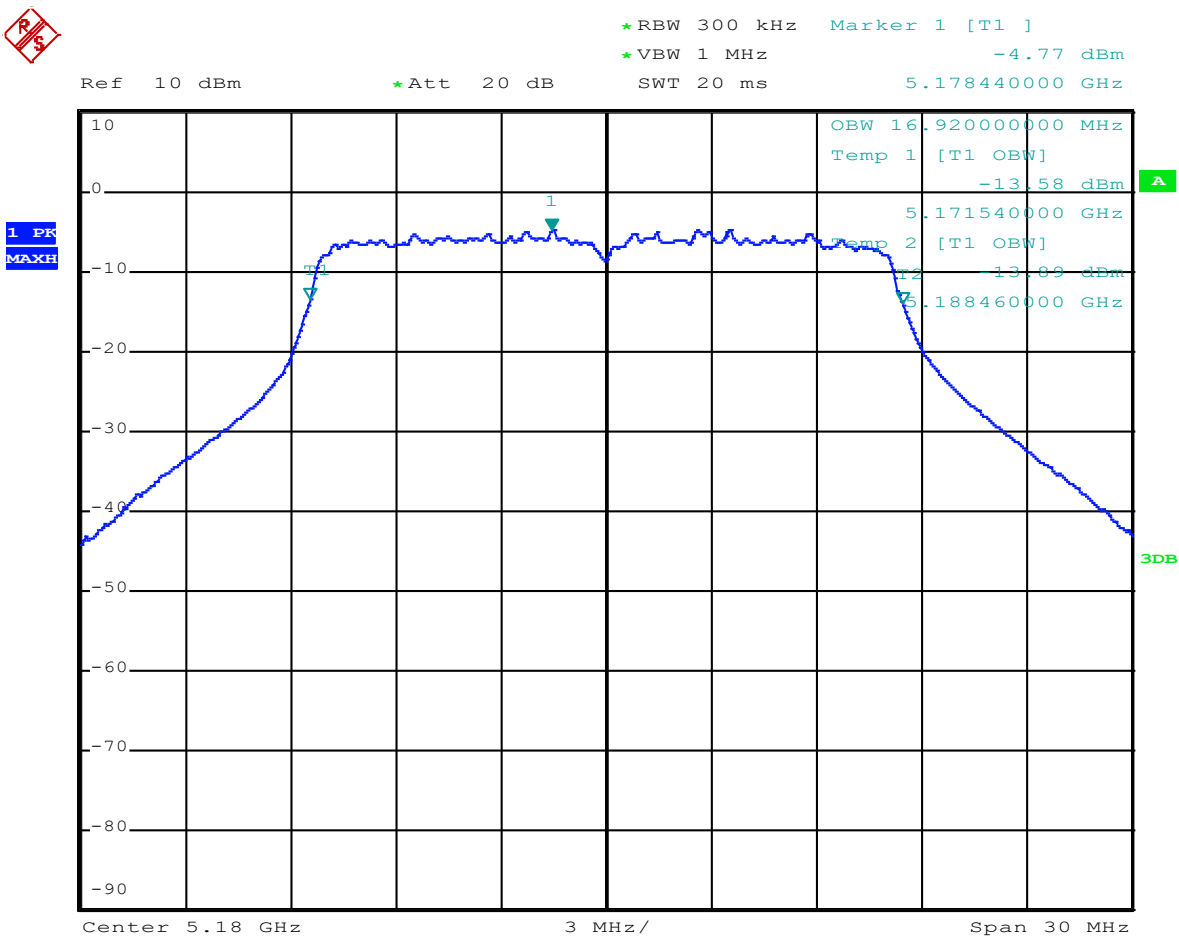
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Test Figure:

99% Bandwidth

Channel 36

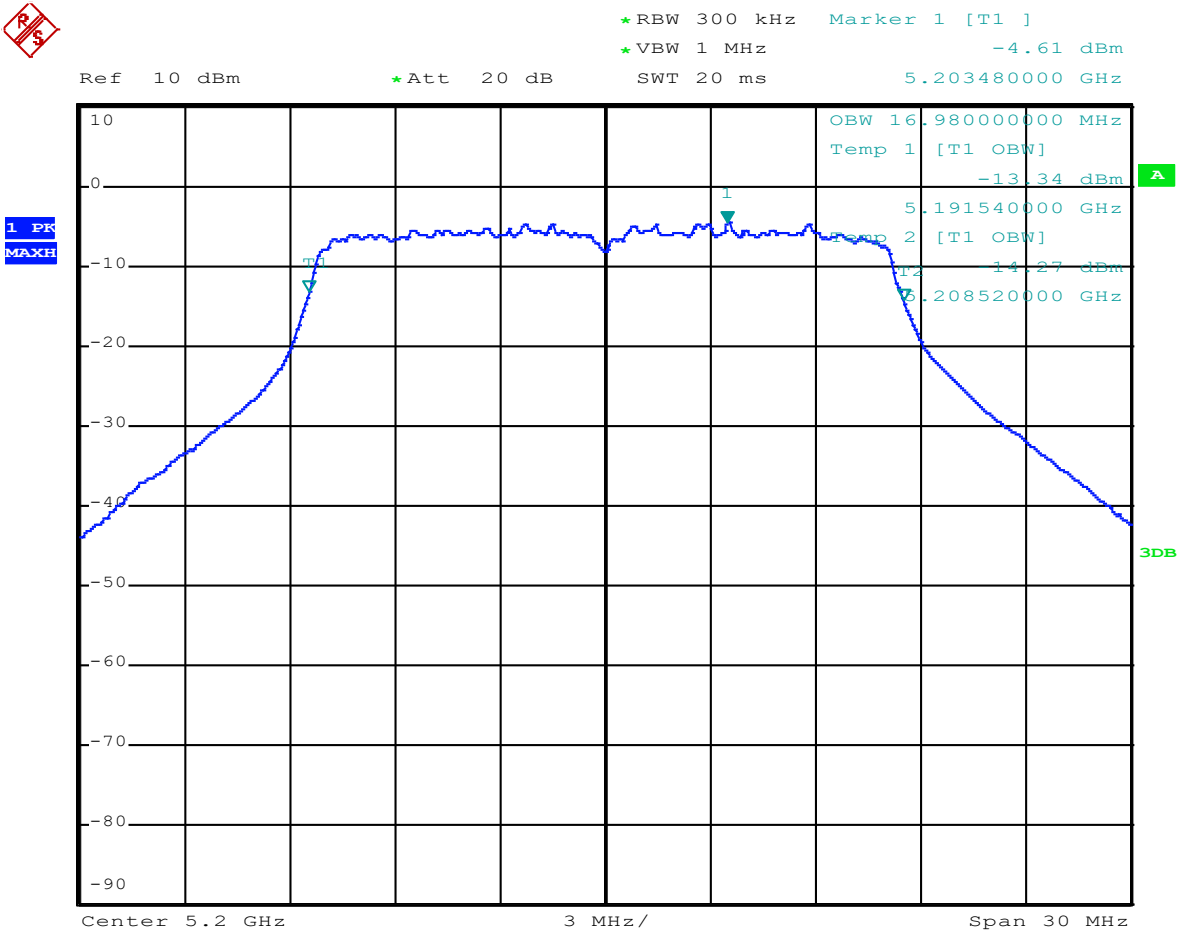


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Channel 40

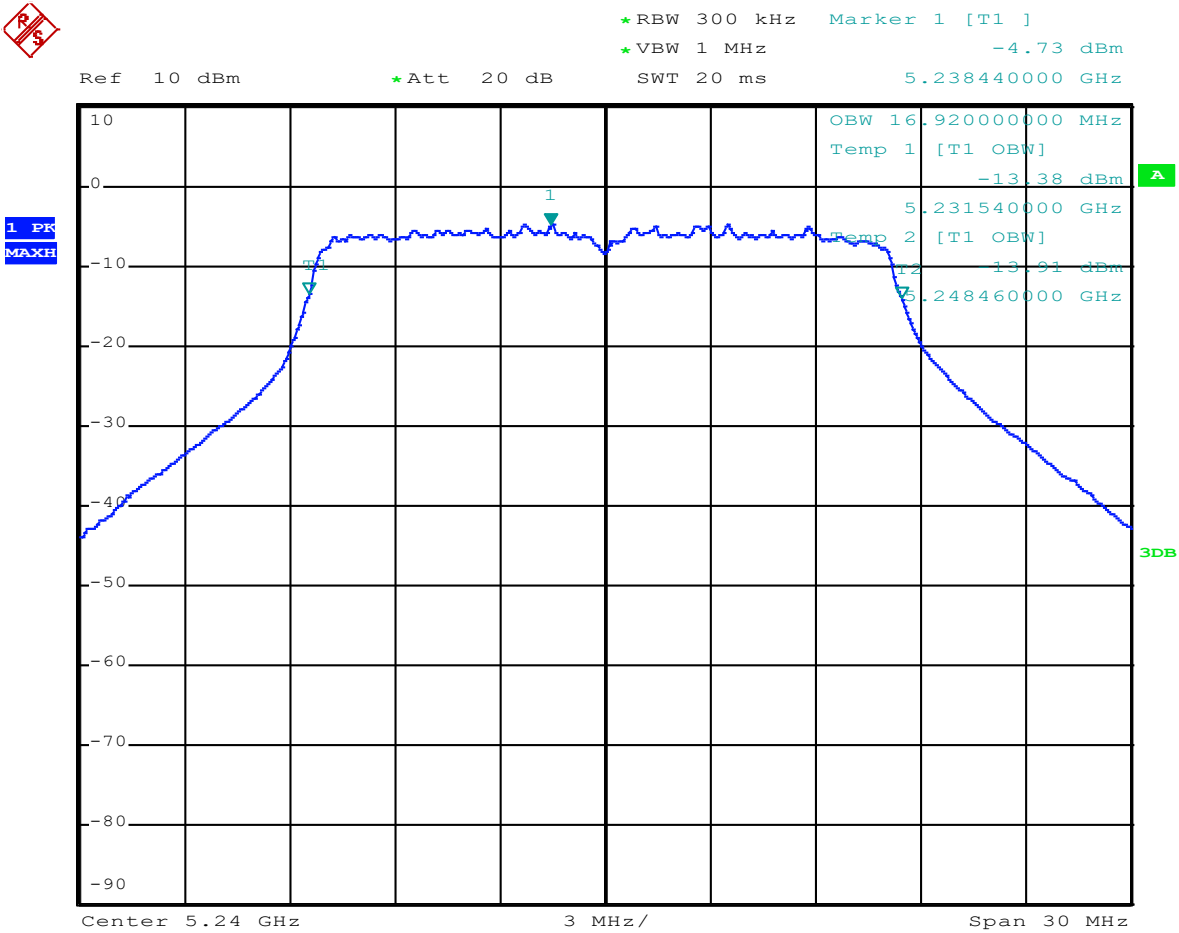


Date: 5.MAR.2026 16:43:29

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



Channel 48



Date: 5.MAR.2026 16:29:51

The report refers only to the sample tested and does not apply to the bulk.
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EUT		Mobile Video Switching Box		Model	PR0529A
Mode		802.11n HT20		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
36	5180	mcs0	23.40	--	Pass
40	5200	mcs0	23.28	--	Pass
48	5240	mcs0	23.34	--	Pass
99% Bandwidth					
36	5180	mcs0	18.06	--	Pass
40	5200	mcs0	18.06	--	Pass
48	5240	mcs0	18.06	--	Pass

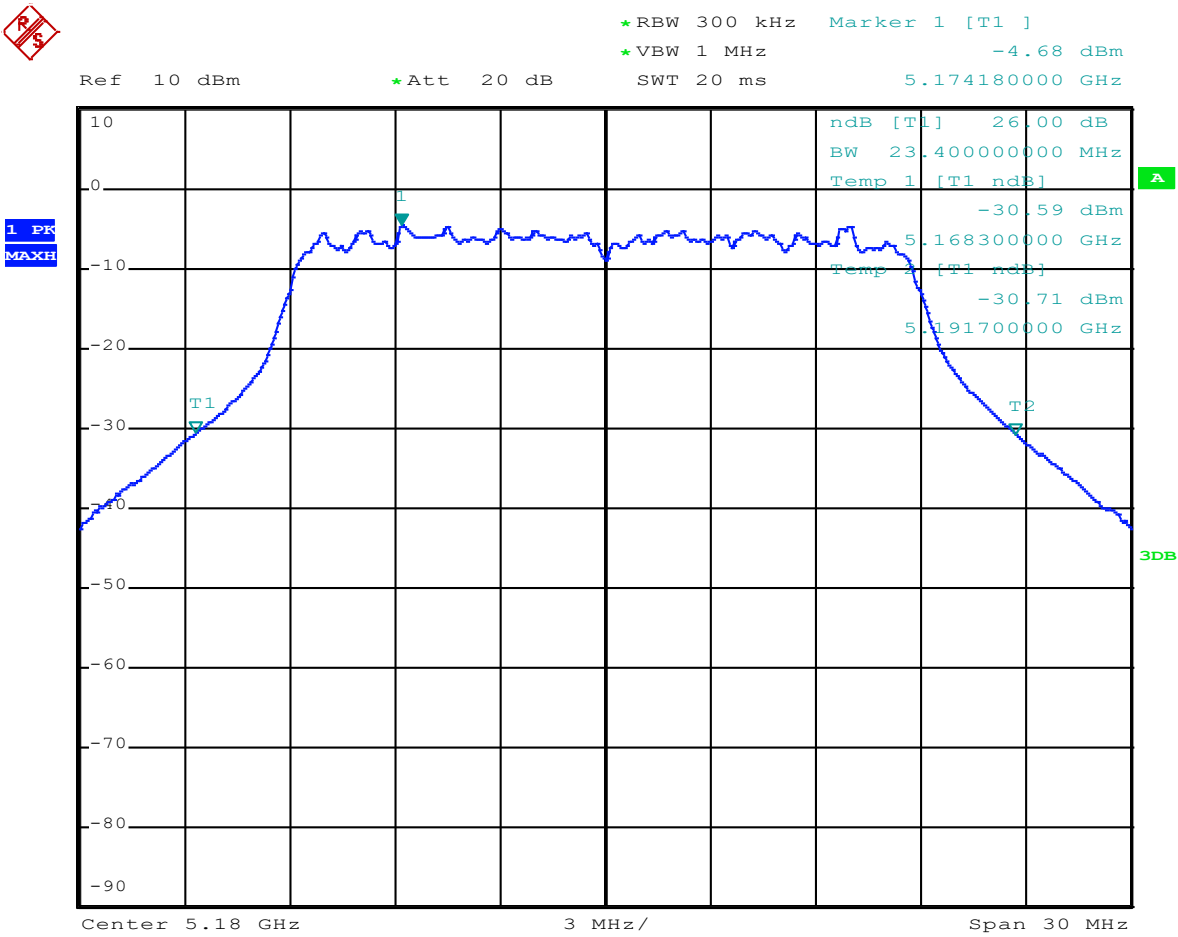
Note: Two antennas (J7 and J9) were tested and only the worst case was recorded in the test report. J7 was the worst case.



Test Configure

26dB Bandwidth

Channel 36

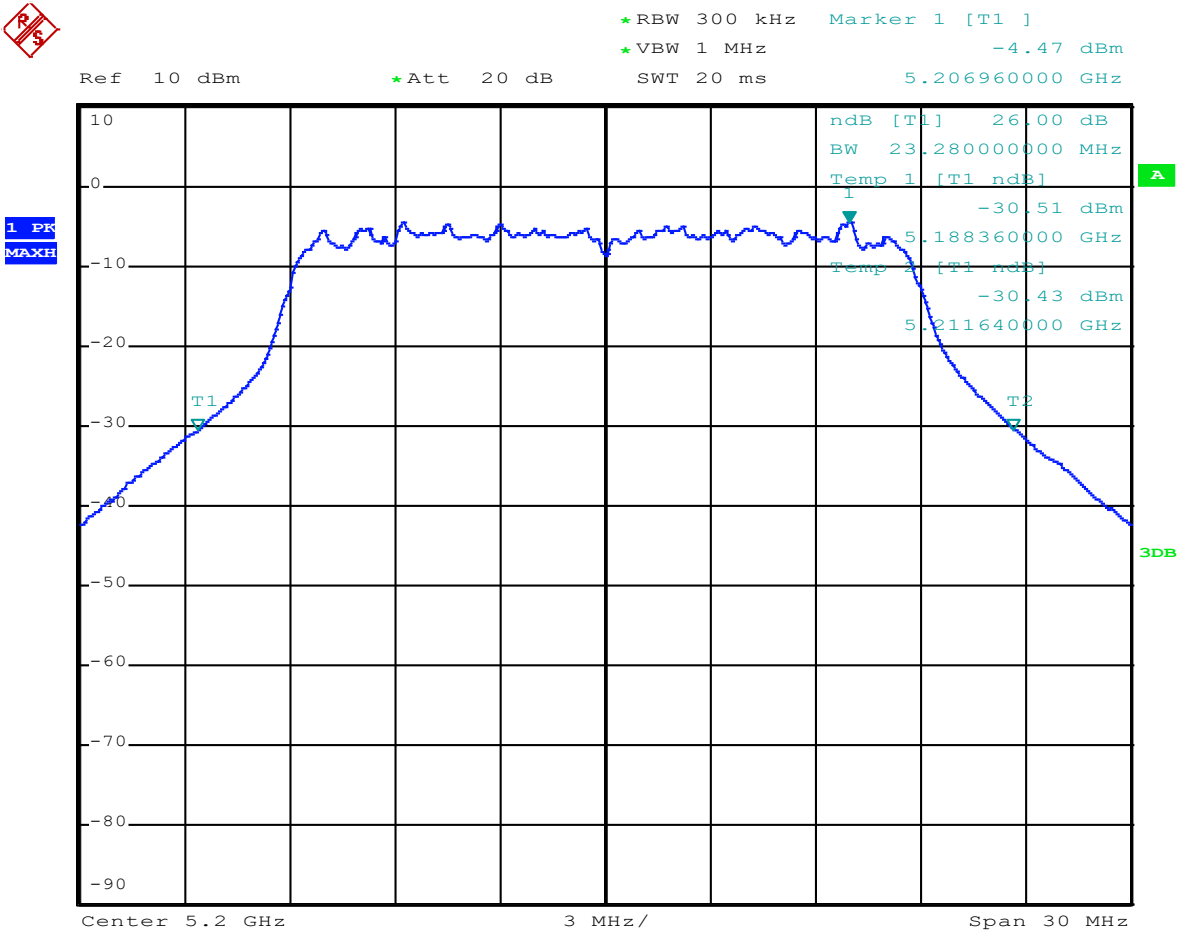


Date: 5.MAR.2026 17:03:10

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

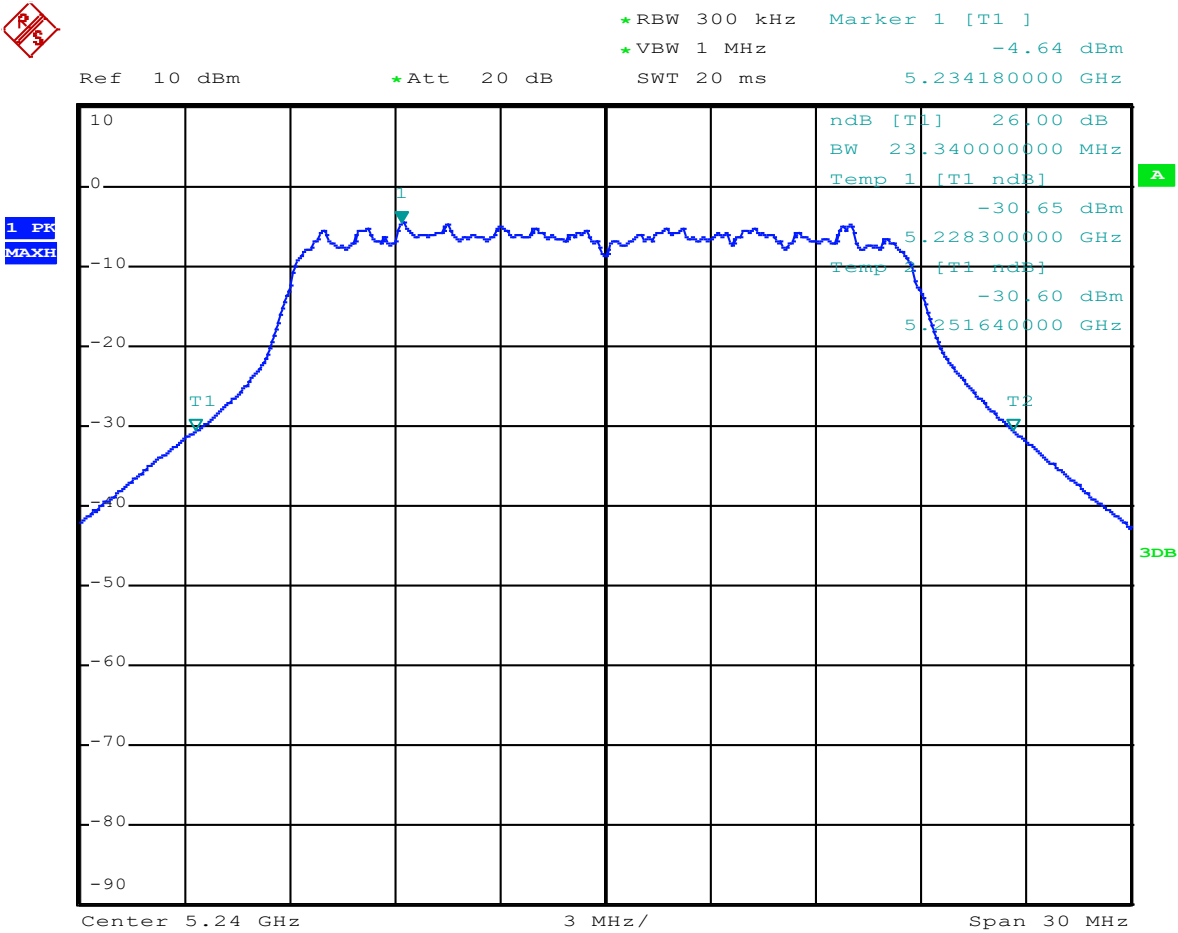


Date: 5.MAR.2026 17:04:37

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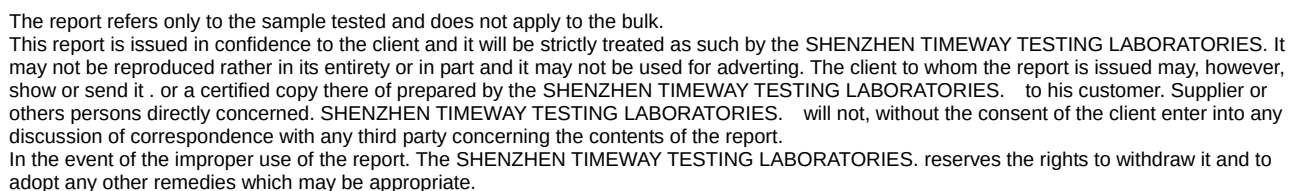


Channel 48



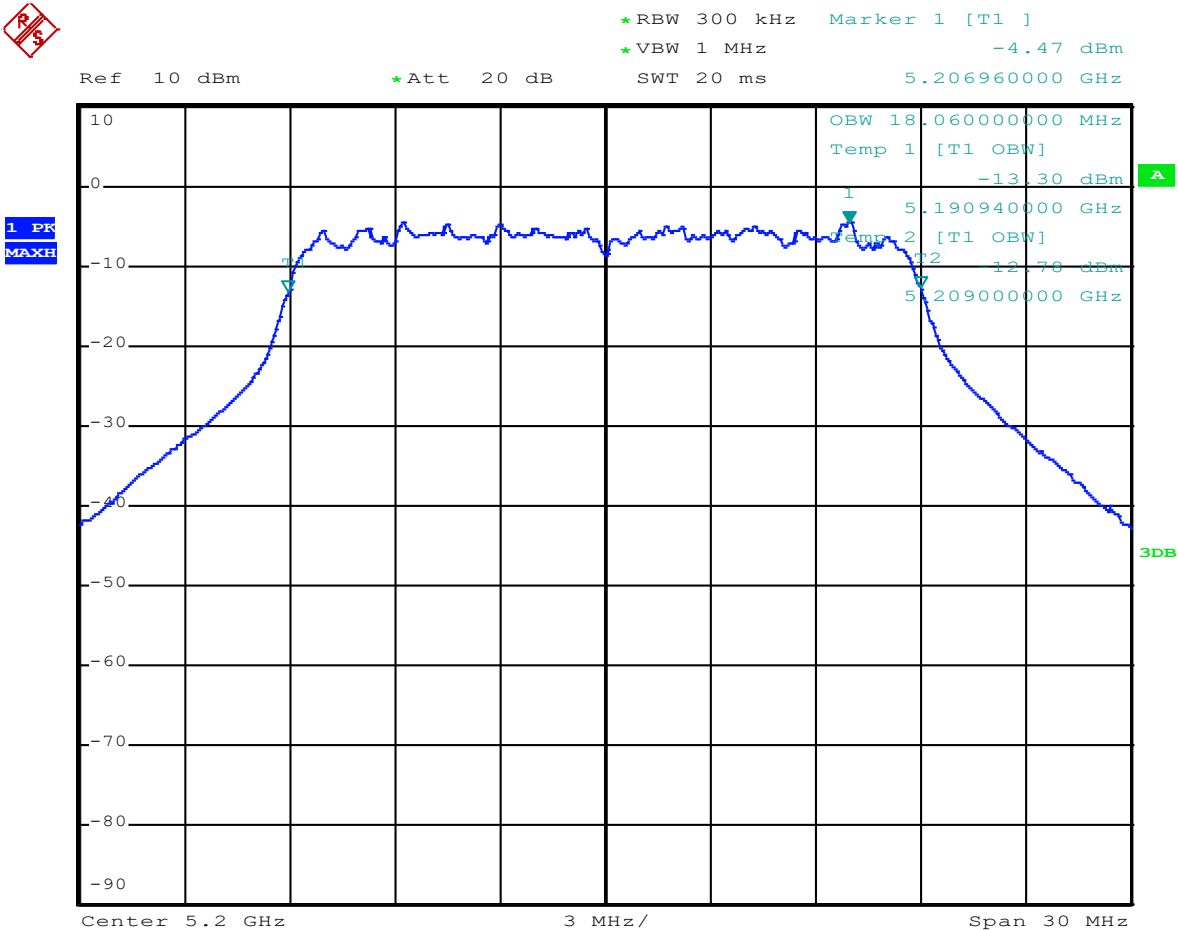
Date: 5.MAR.2026 17:14:32

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

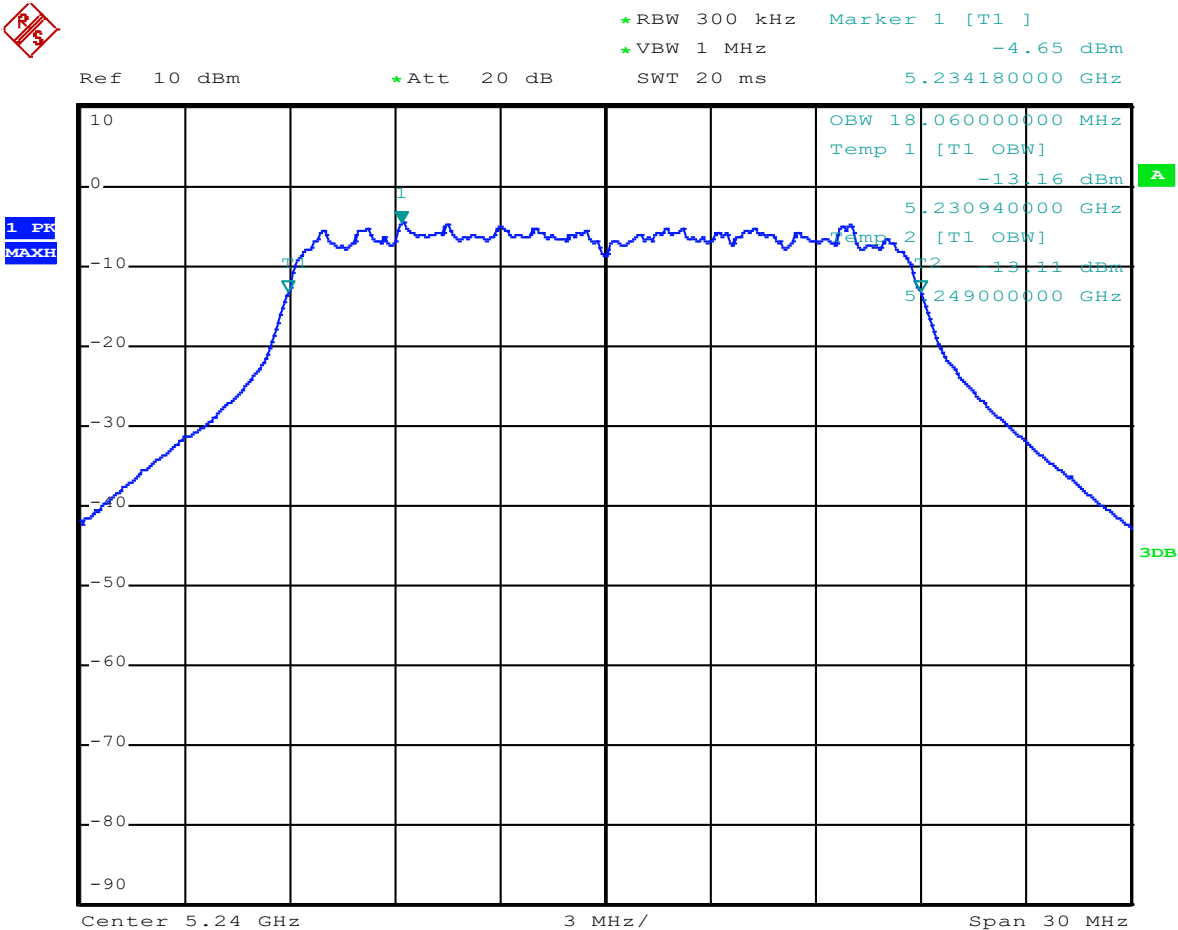


Date: 5.MAR.2026 17:05:03

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



Date: 5.MAR.2026 17:11:54

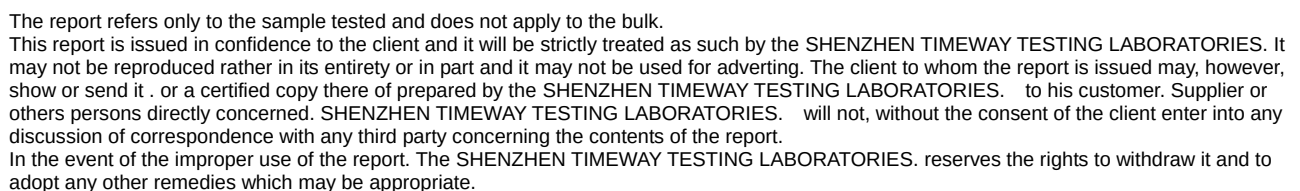
The report refers only to the sample tested and does not apply to the bulk.
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EUT	Mobile Video Switching Box		Model	PR0529A	
Mode	802.11n HT40		Input Voltage	120V~	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
38	5190	mcs0	45.60	--	Pass
46	5230	mcs0	45.60	--	Pass
99% Bandwidth					
38	5190	mcs0	37.32	--	Pass
46	5230	mcs0	37.20	--	Pass

Note: Two antennas (J7 and J9) were tested and only the worst case was recorded in the test report. J7 was the worst case.

1 PK
MAXH





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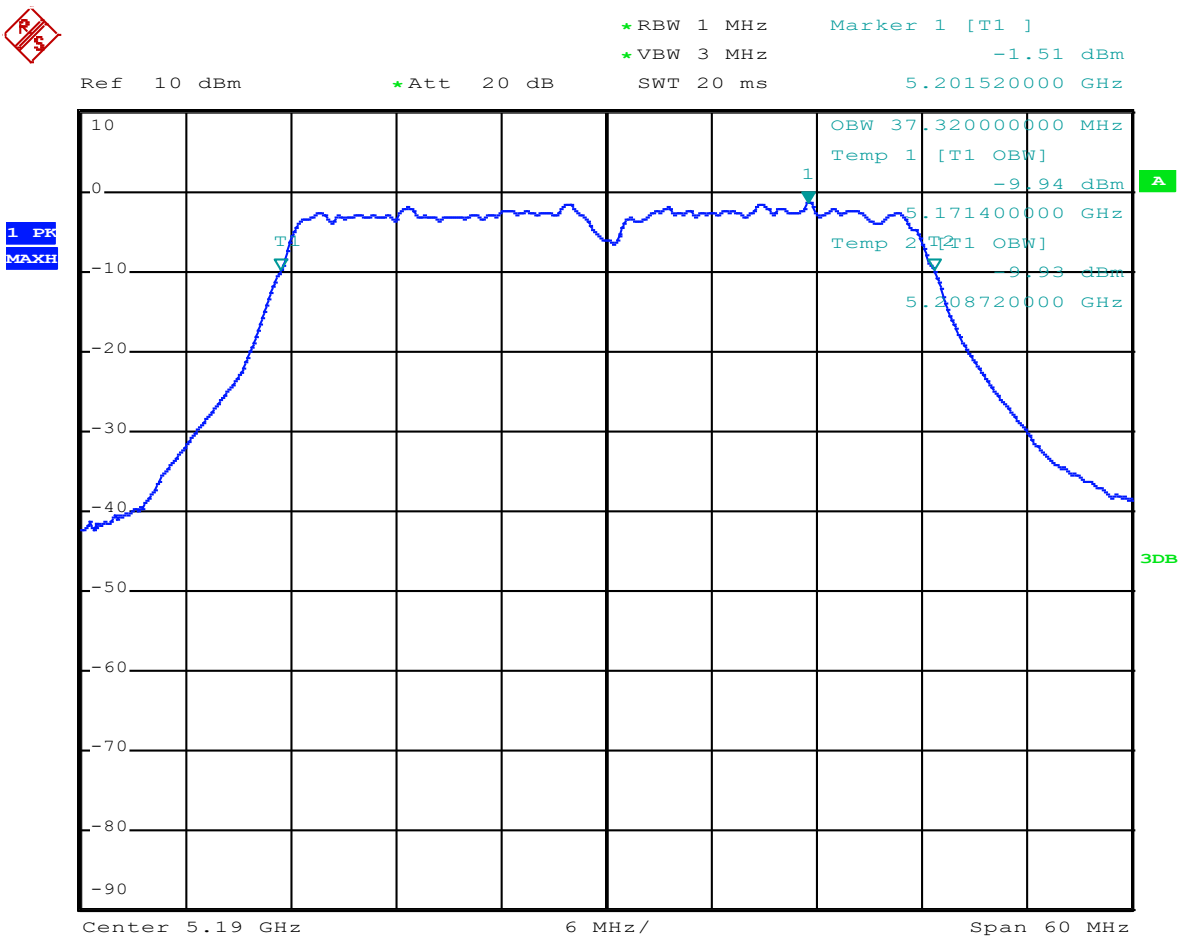
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Configure

99% Bandwidth

Channel 38

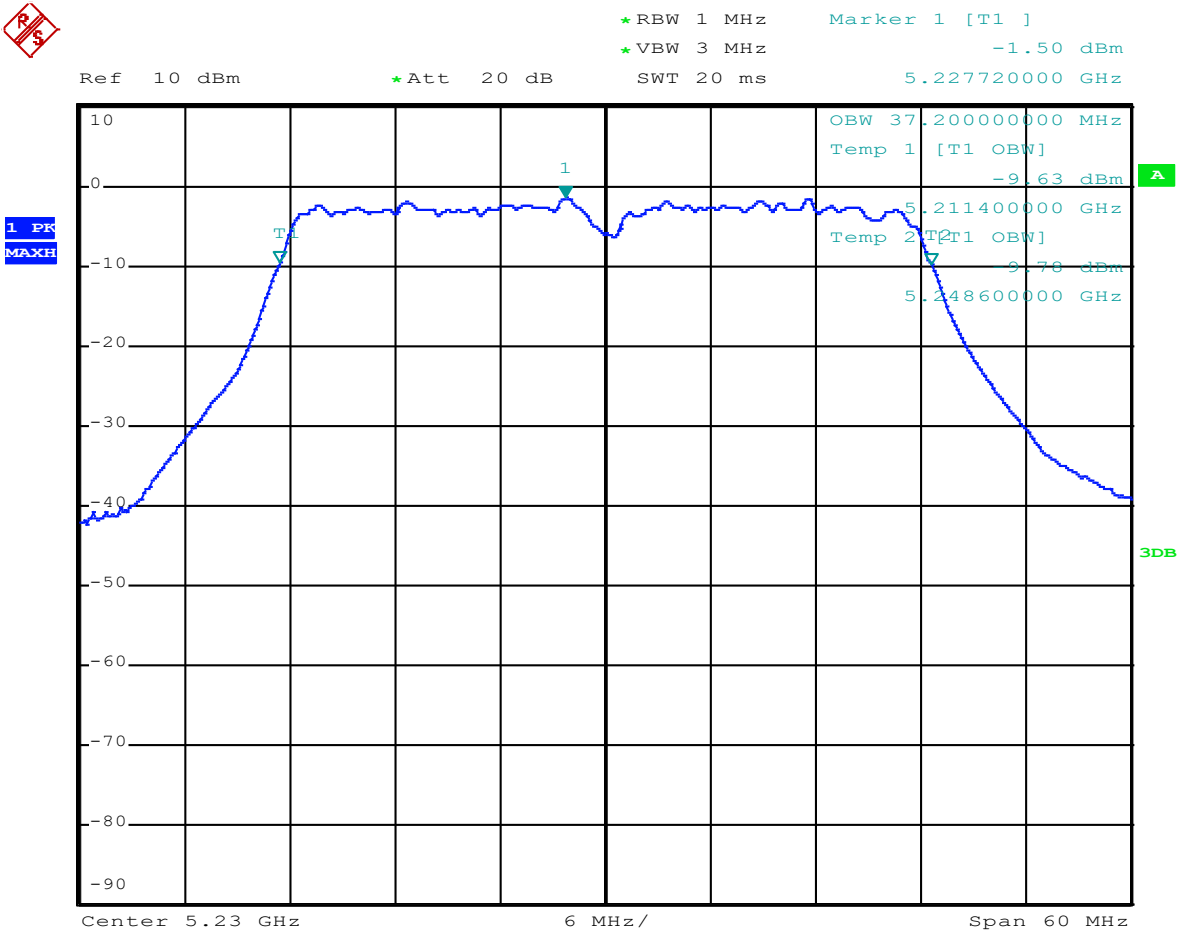


Date: 5.MAR.2026 17:50:37

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



Date: 5.MAR.2026 17:58:02

The report refers only to the sample tested and does not apply to the bulk.
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EUT		Mobile Video Switching Box		Model	PR0529A
Mode		802.11ac VHT20		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
36	5180	mcs0	23.94	--	Pass
40	5200	mcs0	23.88	--	Pass
48	5240	mcs0	24.06	--	Pass
99% Bandwidth					
36	5180	mcs0	18.24	--	Pass
40	5200	mcs0	18.18	--	Pass
48	5240	mcs0	18.24	--	Pass

Note: Two antennas (J7 and J9) were tested and only the worst case was recorded in the test report. J7 was the worst case.

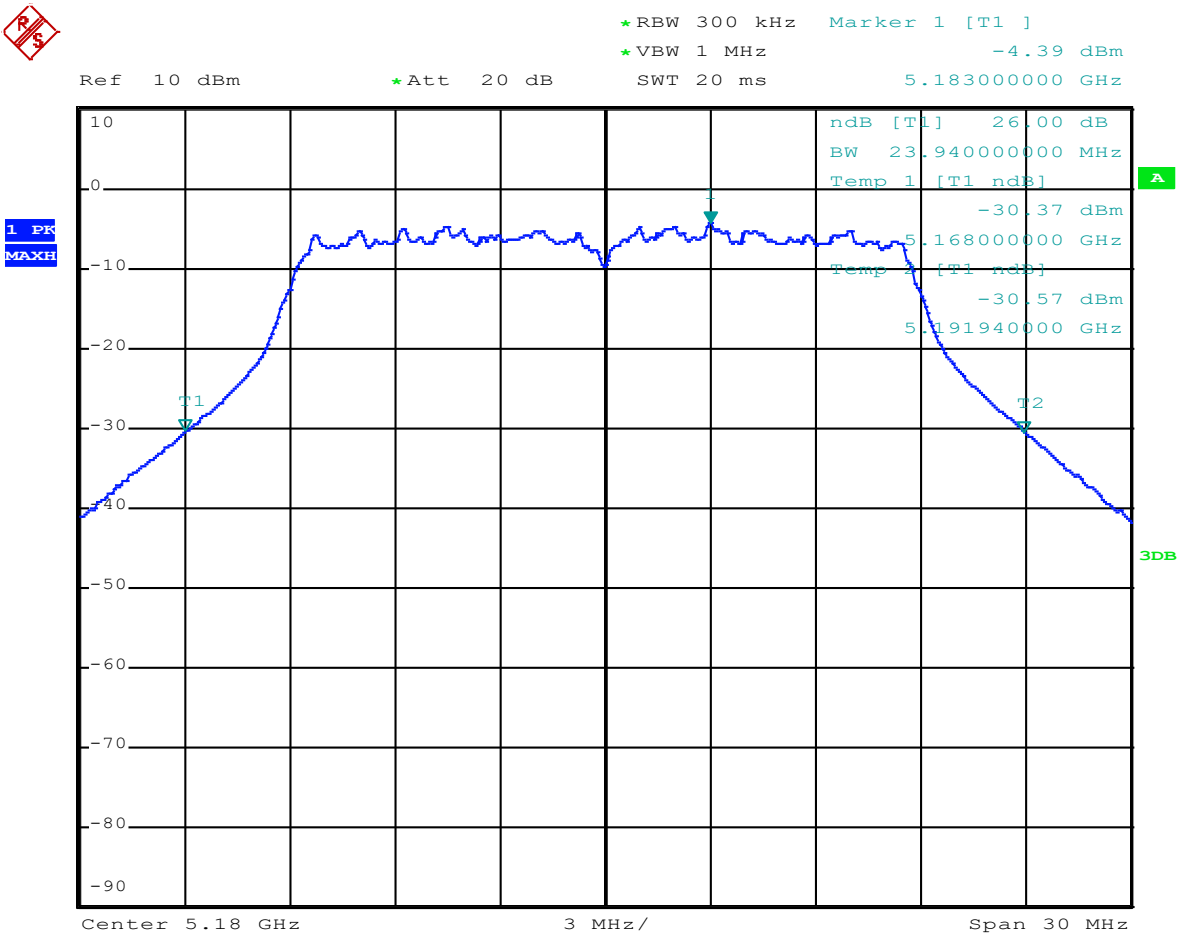
The report refers only to the sample tested and does not apply to the bulk.
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Test Configure

26dB Bandwidth

Channel 36

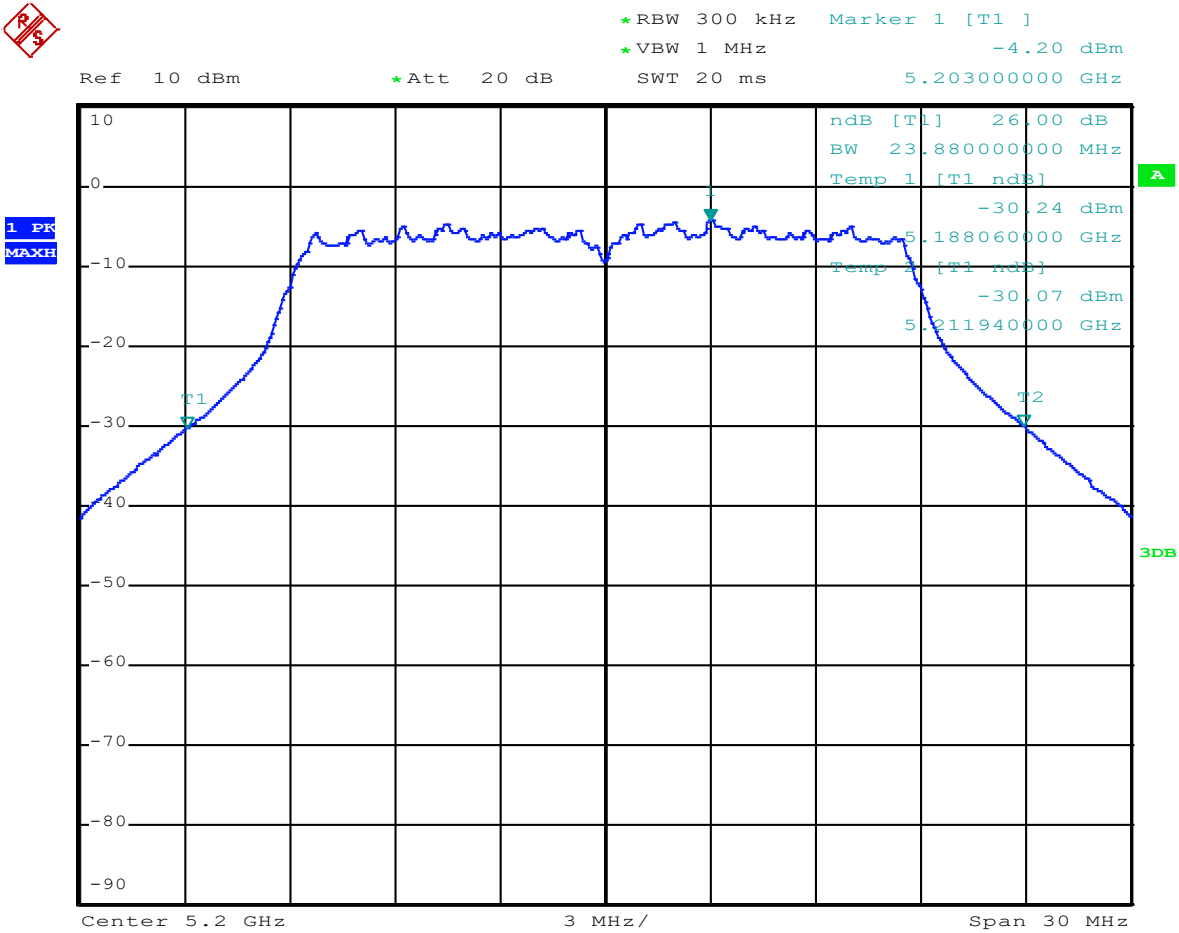


Date: 5.MAR.2026 17:27:36

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

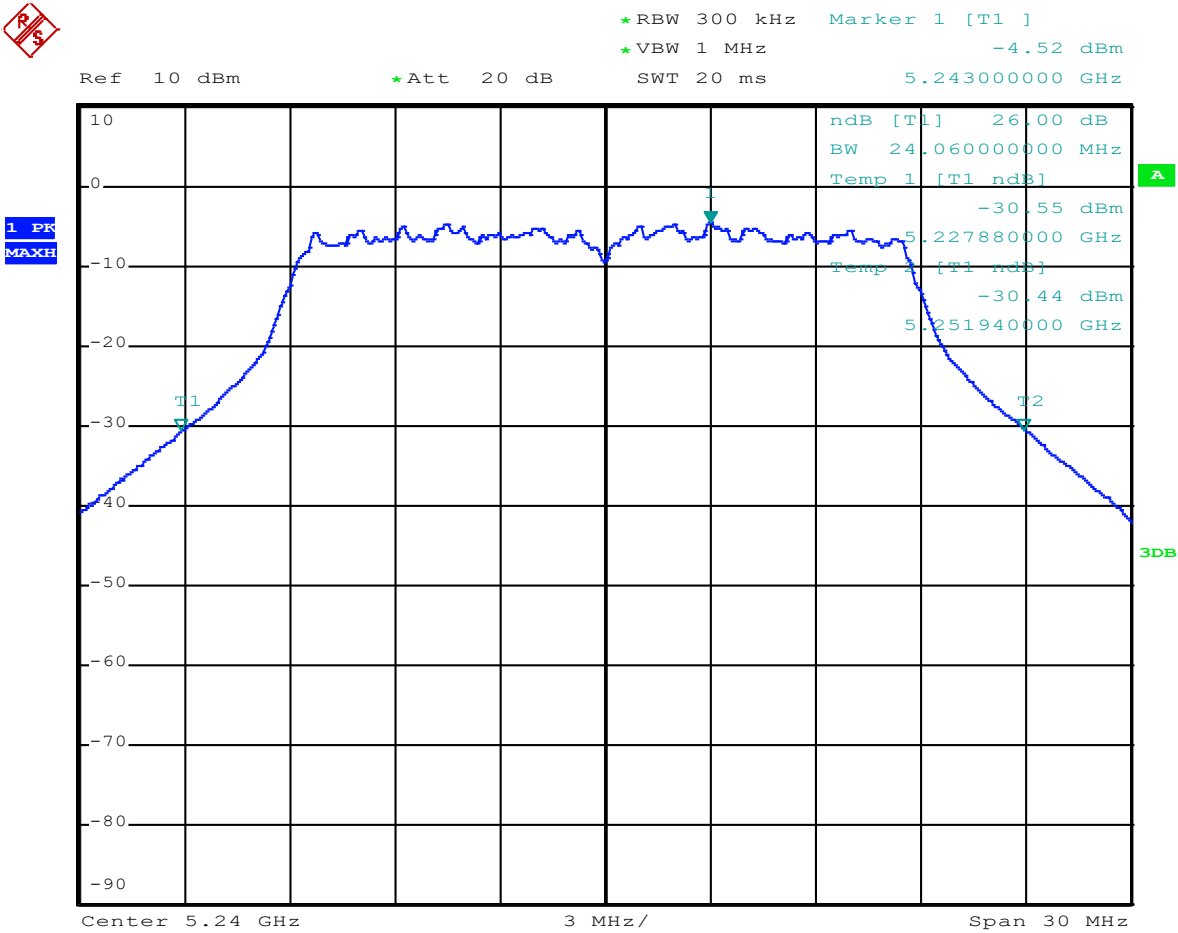


Date: 5.MAR.2026 17:26:56

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



Date: 5.MAR.2026 17:16:18

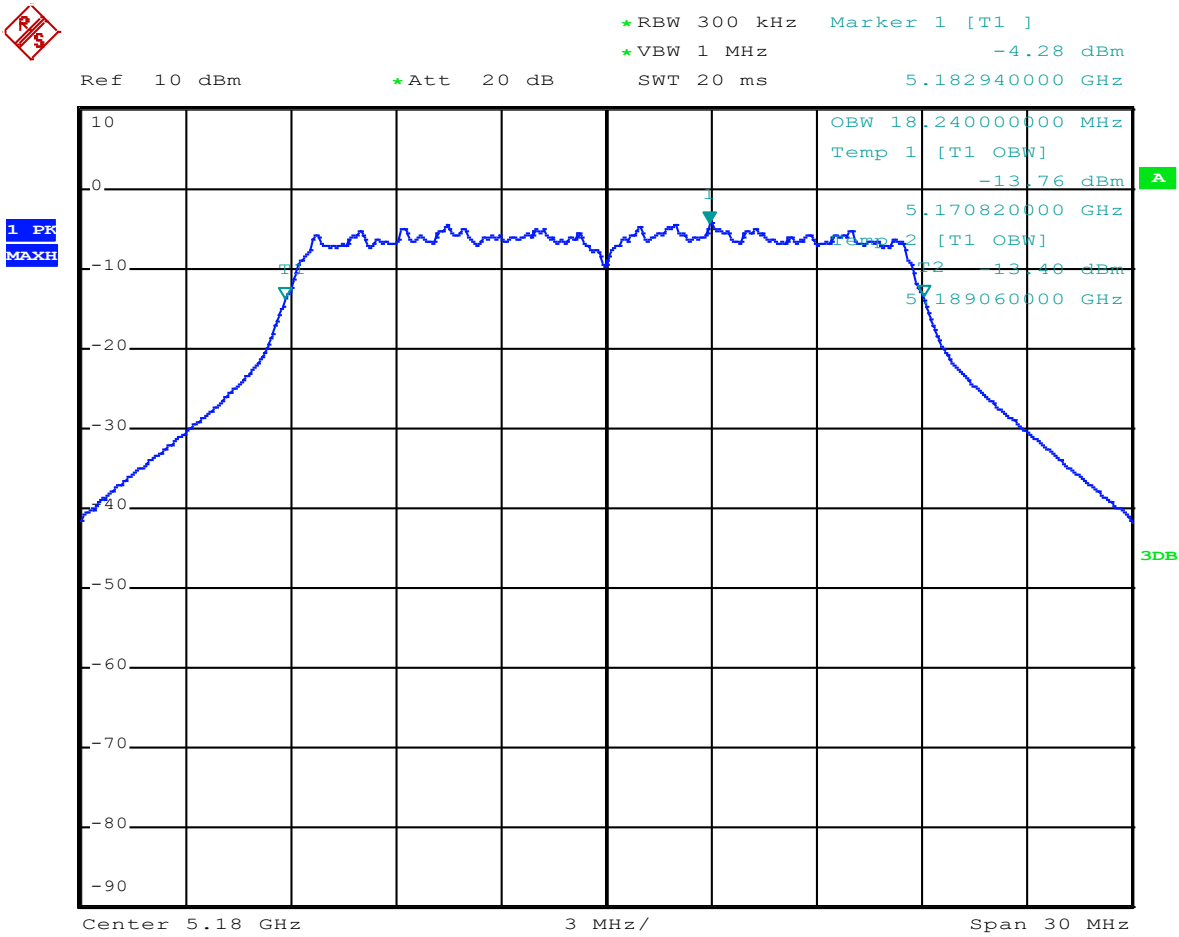
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Test Configure

99% Bandwidth

Channel 36

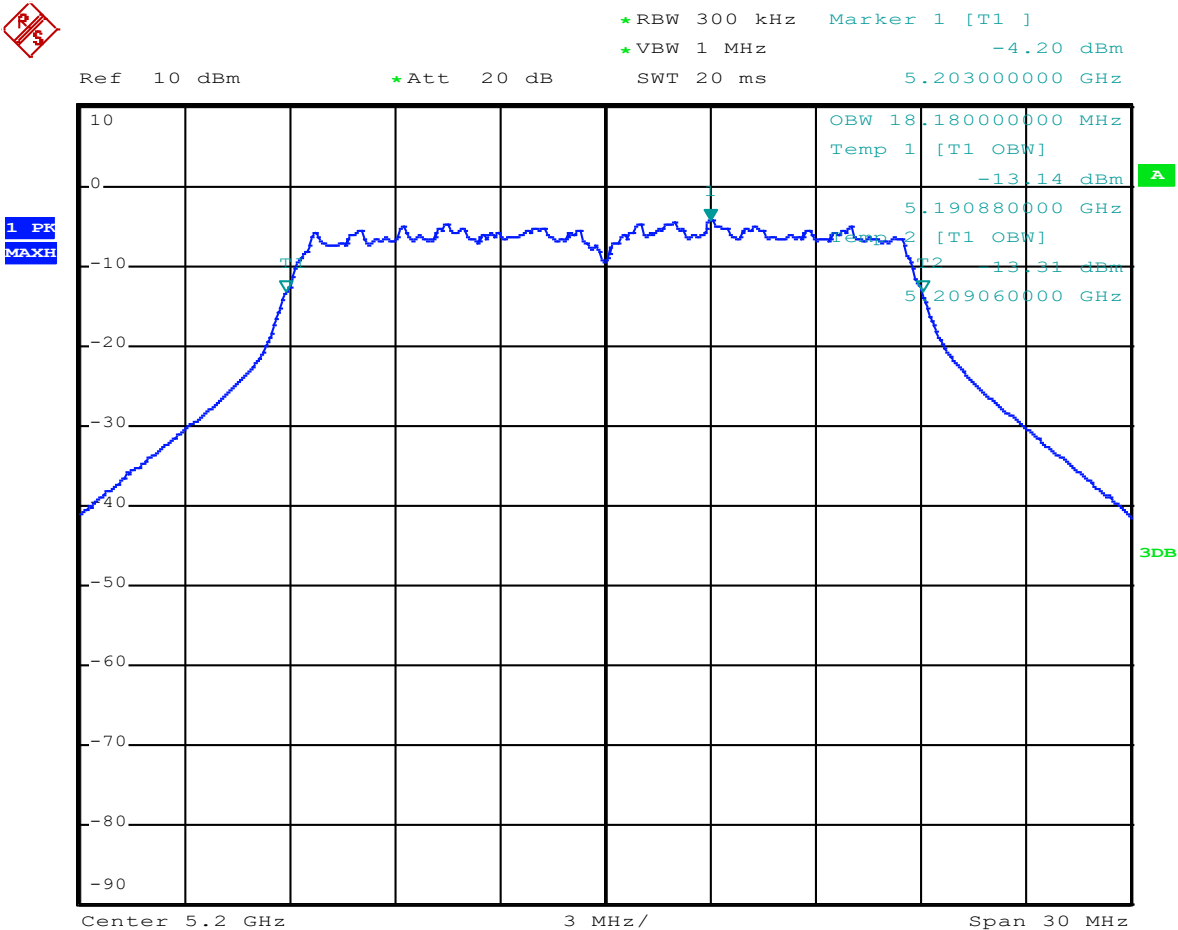


Date: 5.MAR.2026 18:00:35

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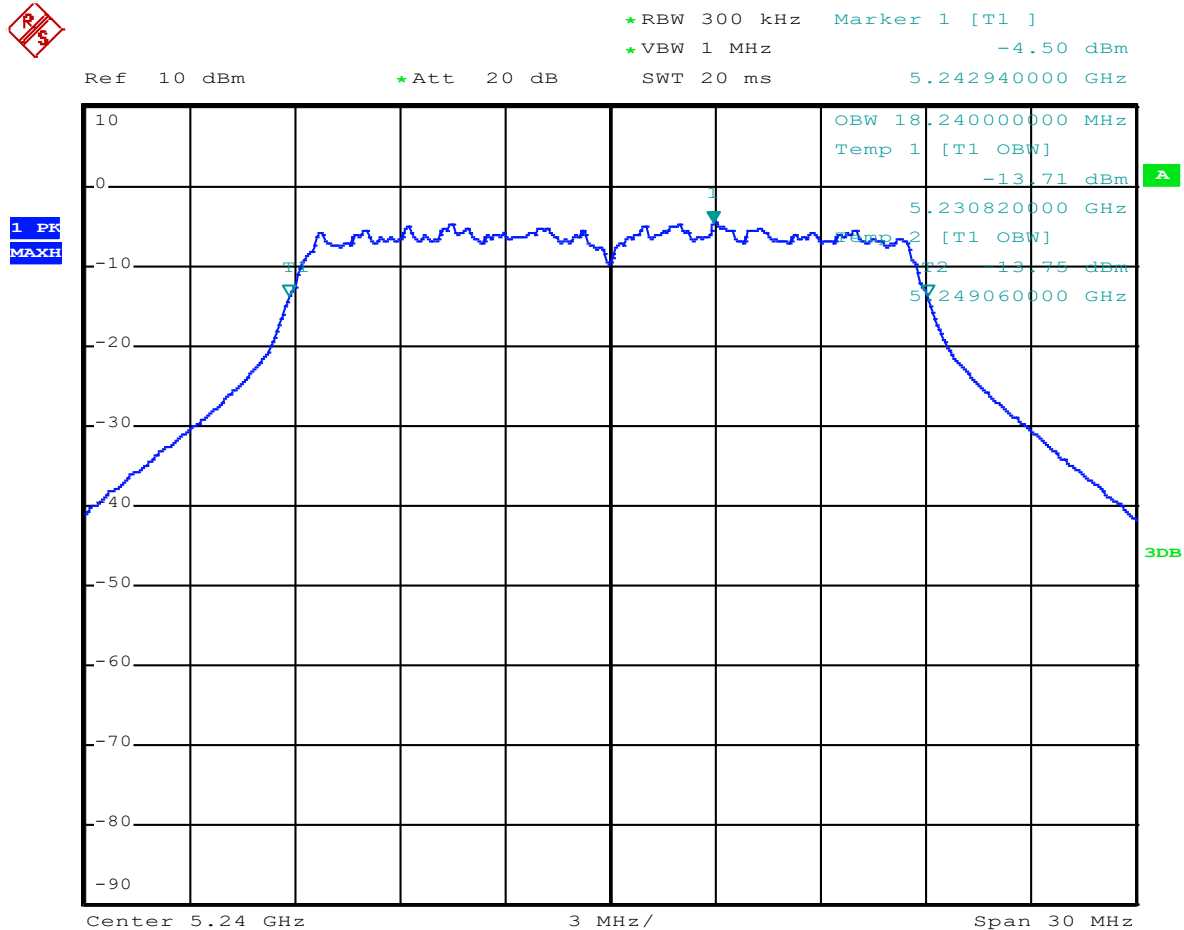
Channel 40



Date: 5.MAR.2026 17:25:42

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



Date: 5.MAR.2026 17:17:24

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EUT		Mobile Video Switching Box		Model	PR0529A
Mode		802.11ac VHT40		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
38	5190	mcs0	46.08	--	Pass
46	5230	mcs0	45.36	--	Pass
99% Bandwidth					
38	5190	mcs0	37.32	--	Pass
46	5230	mcs0	37.08	--	Pass

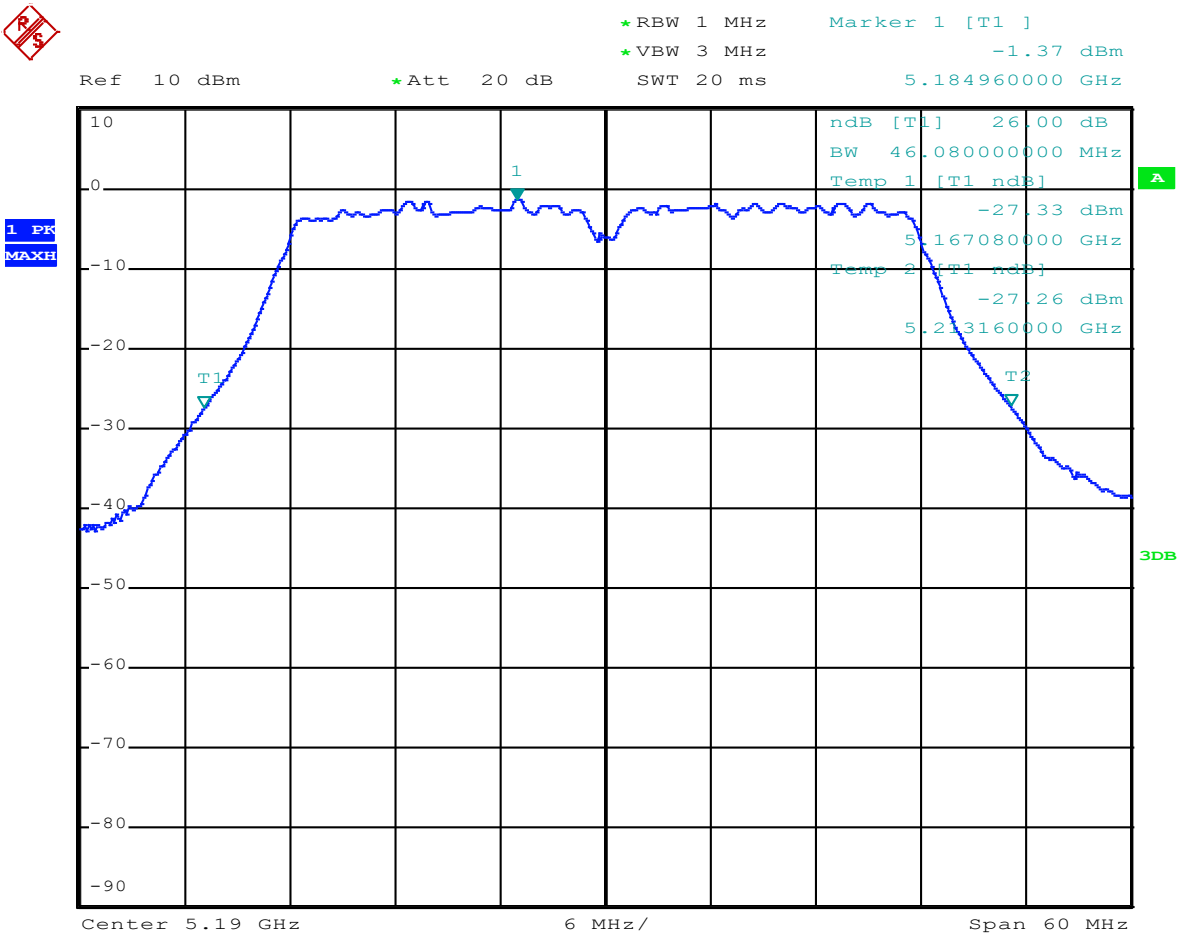
Note: Two antennas (J7 and J9) were tested and only the worst case was recorded in the test report. J7 was the worst case.



Test Configure

26dB Bandwidth

Channel 38

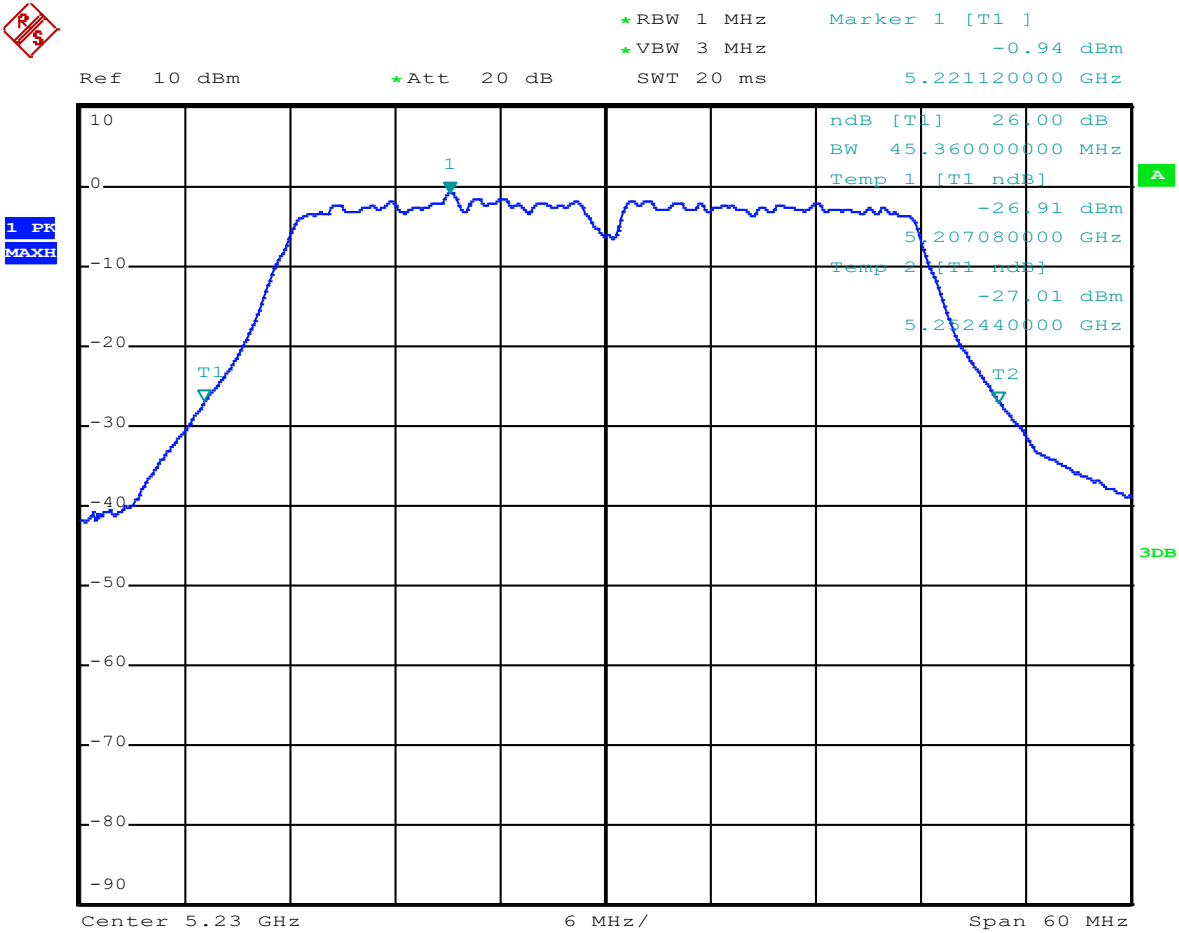


Date: 5.MAR.2026 18:23:08

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



Date: 5.MAR.2026 18:03:10

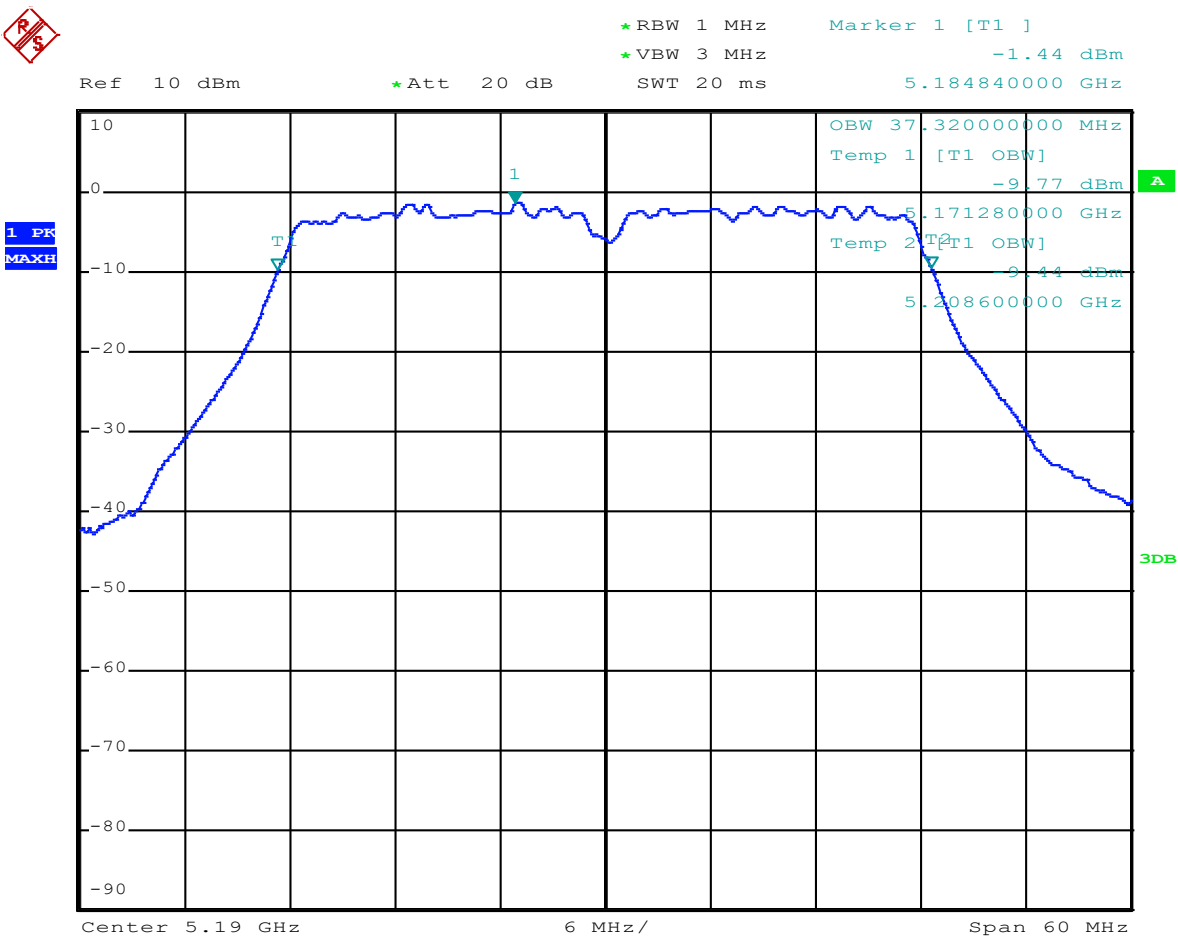
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Test Configure

99% Bandwidth

Channel 38



Date: 5.MAR.2026 18:23:49

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1 PK
MAXH

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.



EUT		Mobile Video Switching Box		Model	PR0529A
Mode		802.11ac VHT80		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
42	5210	mcs0	85.68	--	Pass
99% Bandwidth					
42	5210	mcs0	76.08	--	Pass

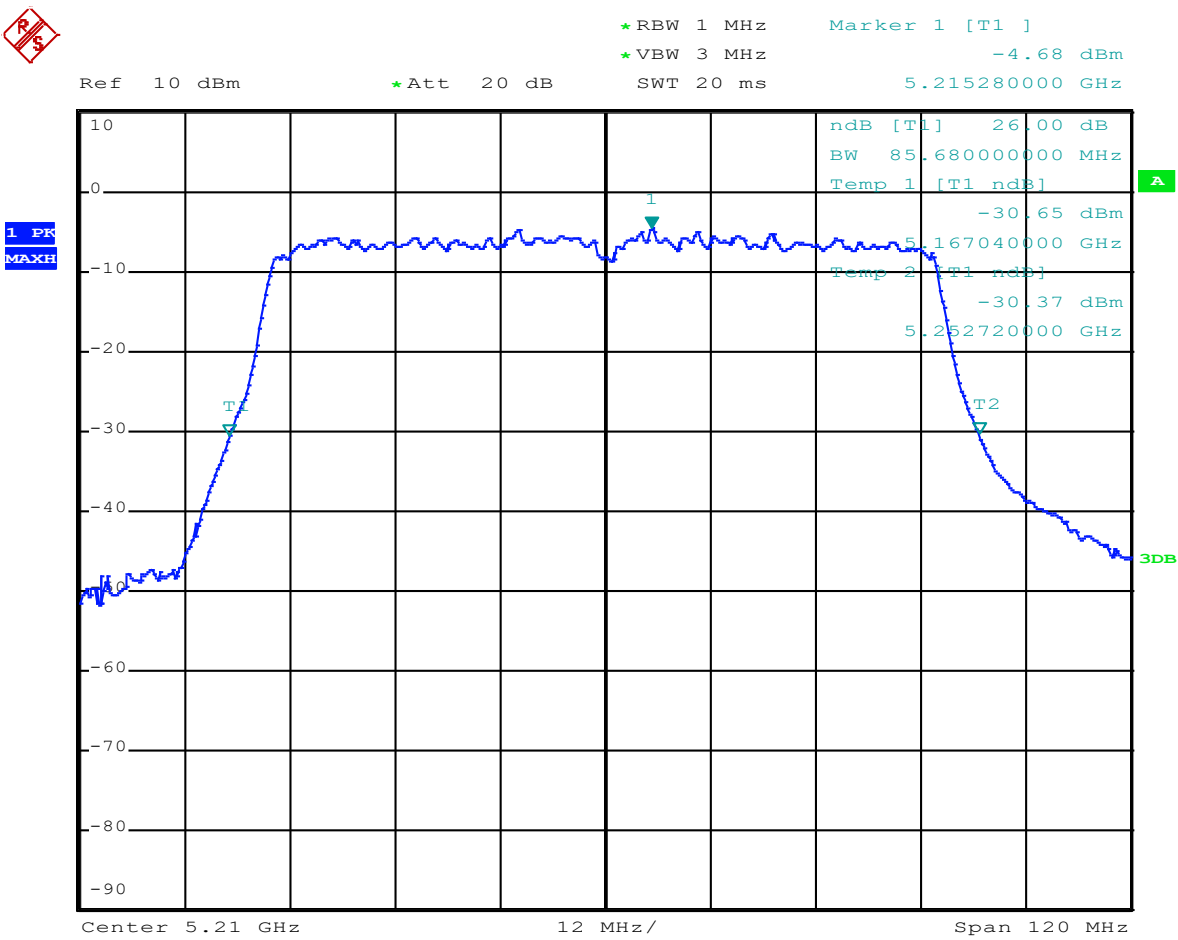
Note: Two antennas (J7 and J9) were tested and only the worst case was recorded in the test report. J7 was the worst case.



Test Configure

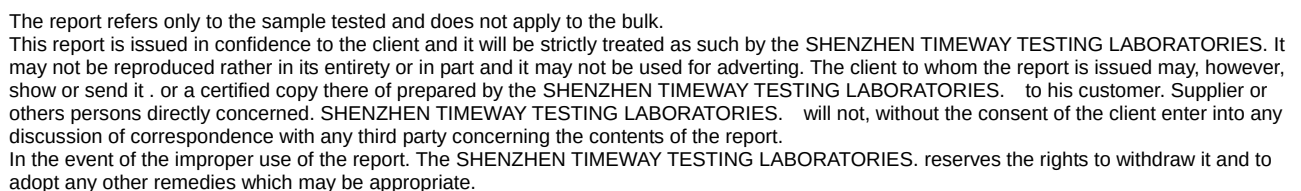
26dB Bandwidth

Channel 42



Date: 5.MAR.2026 18:22:18

The report refers only to the sample tested and does not apply to the bulk.
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EUT		Mobile Video Switching Box		Model	PR0529A
Mode		802.11ax HEW20		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
36	5180	mcs0	23.40	--	Pass
40	5200	mcs0	23.34	--	Pass
48	5240	mcs0	23.34	--	Pass
99% Bandwidth					
36	5180	mcs0	19.14	--	Pass
40	5200	mcs0	19.14	--	Pass
48	5240	mcs0	19.14	--	Pass

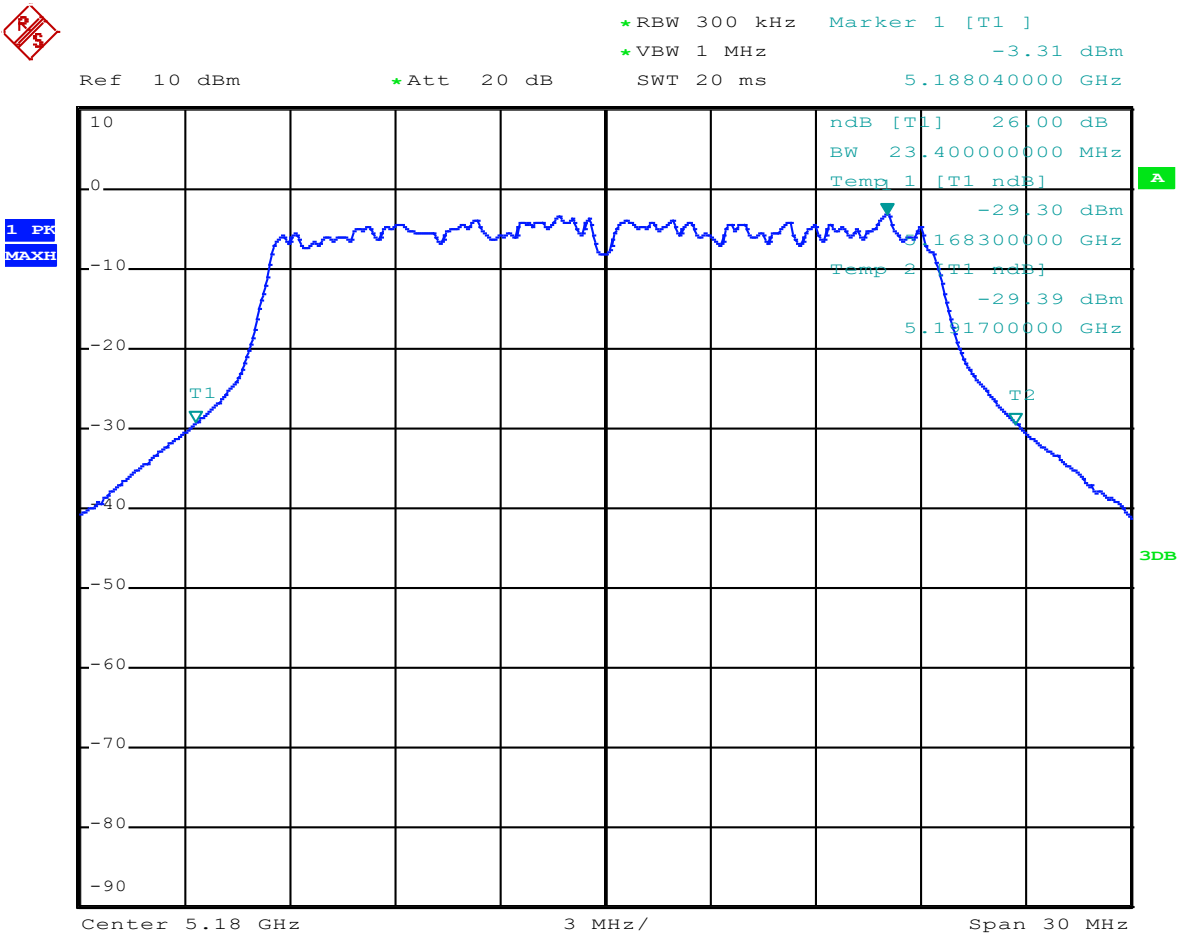
Note: Two antennas (J7 and J9) were tested and only the worst case was recorded in the test report. J7 was the worst case.



Test Configure

26dB Bandwidth

Channel 36

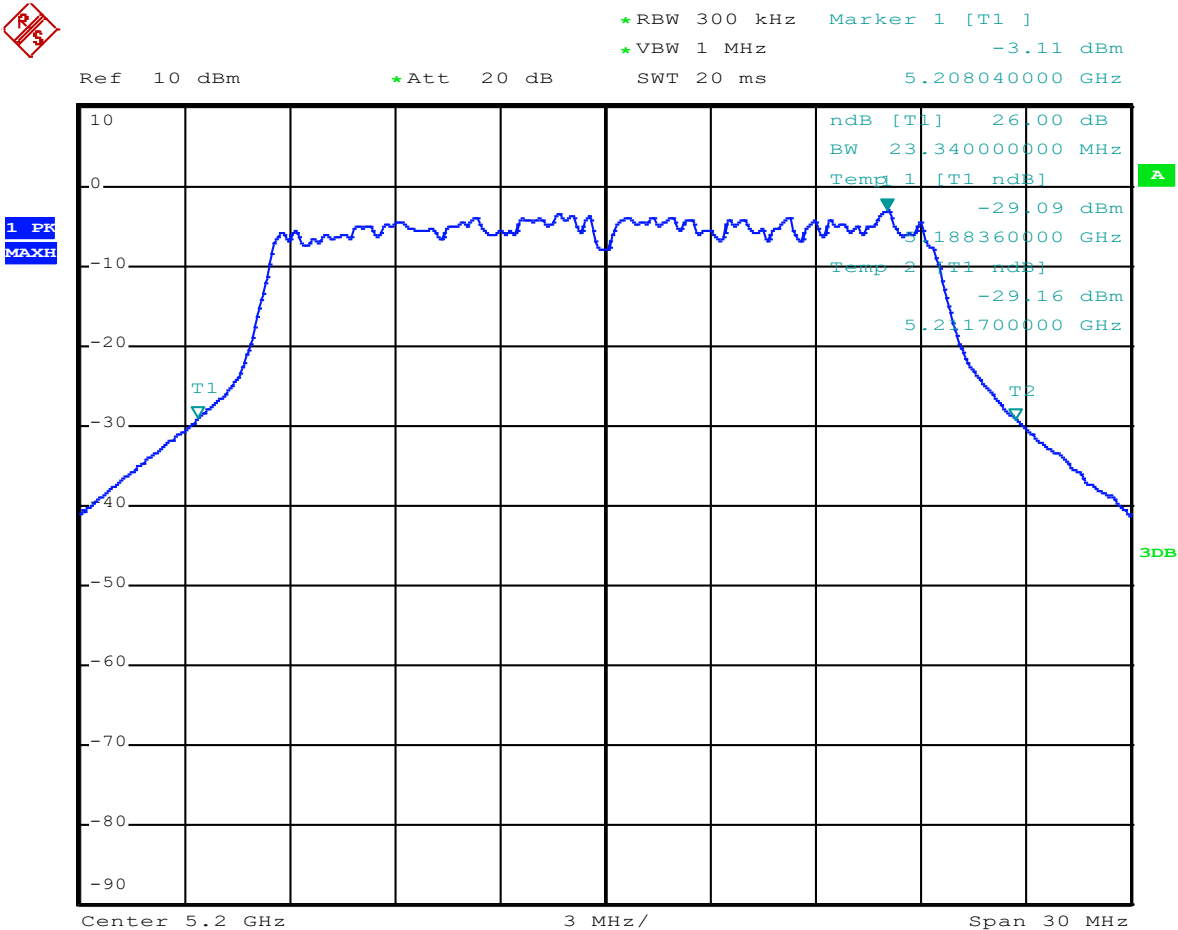


Date: 5.MAR.2026 17:34:57

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Channel 40

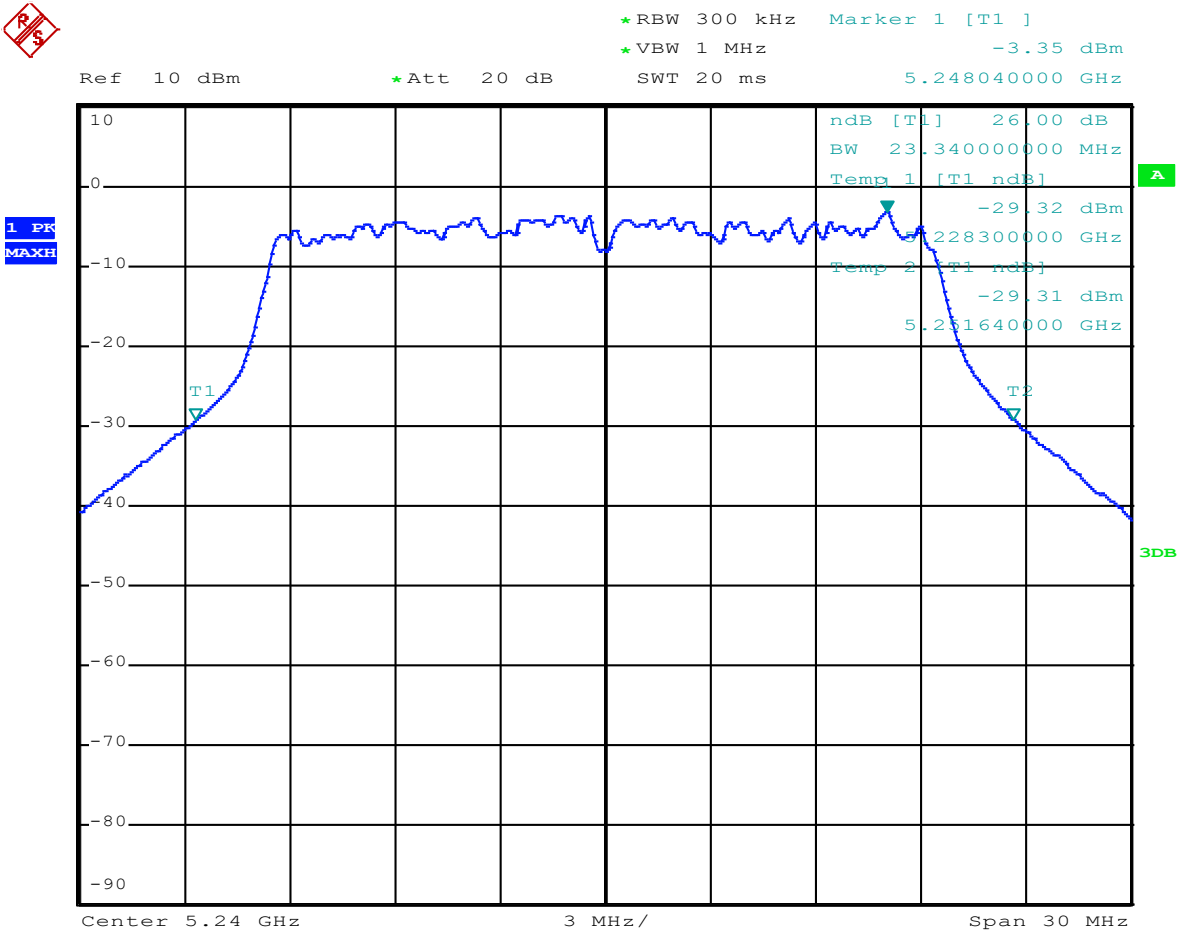


Date: 5.MAR.2026 17:39:39

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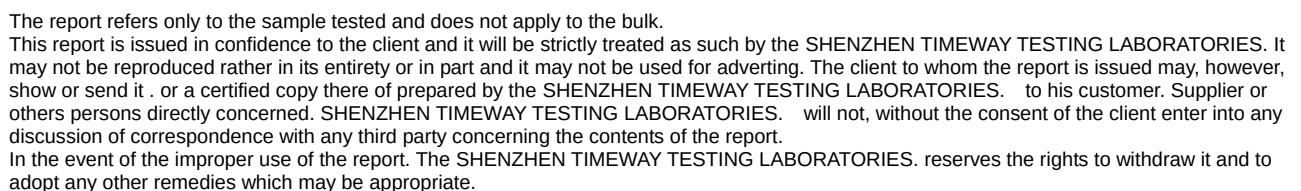


Channel 48

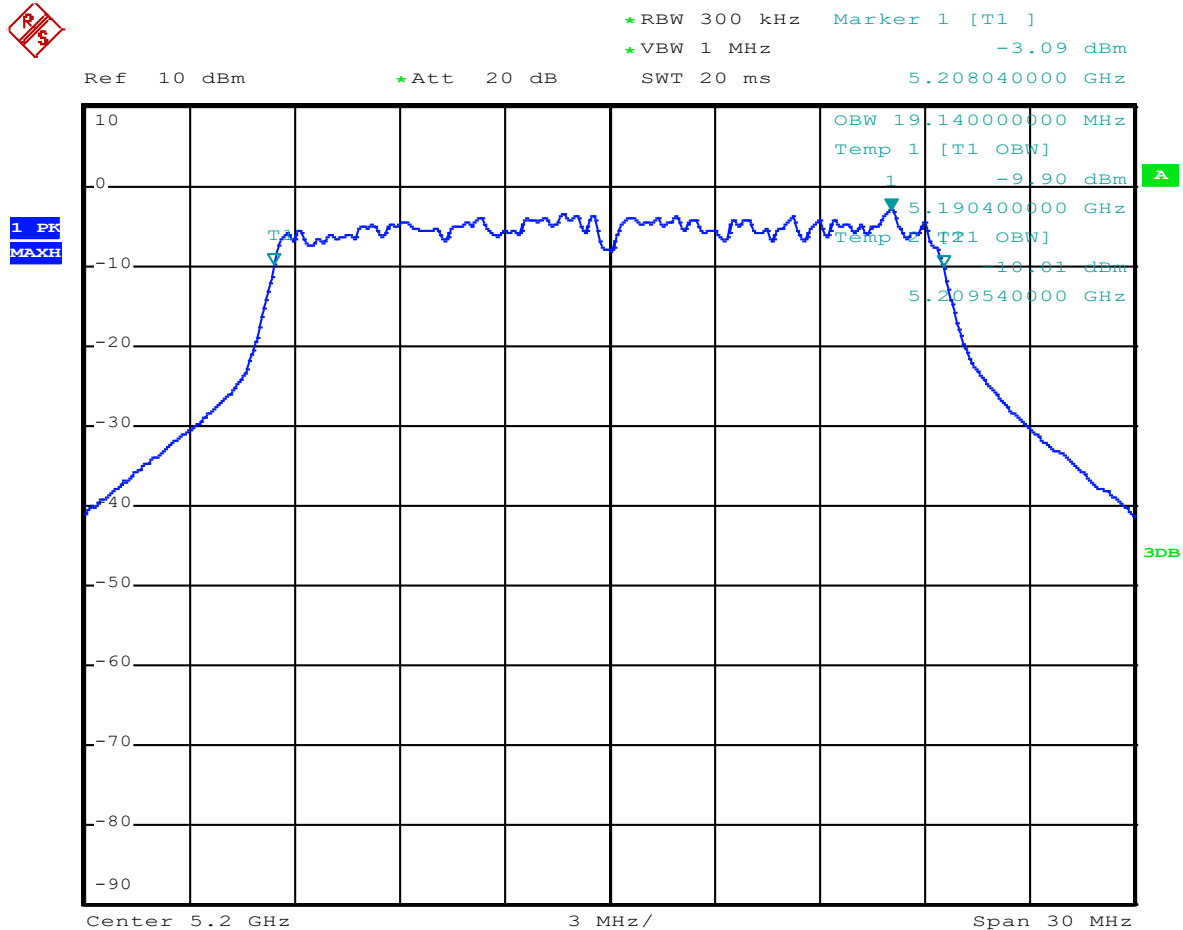


Date: 5.MAR.2026 17:47:59

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Channel 40



Date: 5.MAR.2026 17:38:25

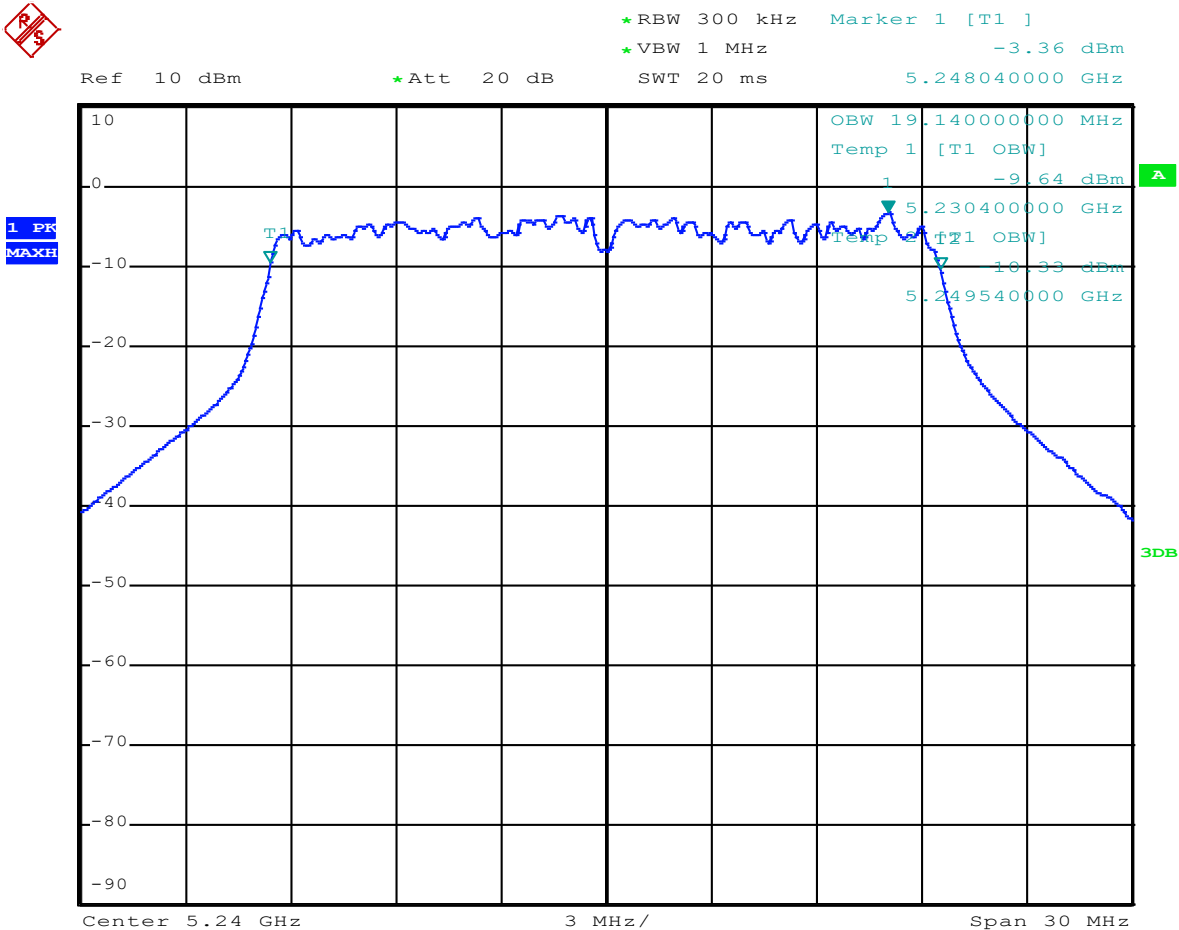
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Channel 48



Date: 5.MAR.2026 17:49:18

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EUT		Mobile Video Switching Box		Model	PR0529A
Mode		802.11ax HEW40		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
36	5190	mcs0	45.48	--	Pass
40	5230	mcs0	45.24	--	Pass
99% Bandwidth					
36	5190	mcs0	38.64	--	Pass
40	5230	mcs0	38.52	--	Pass

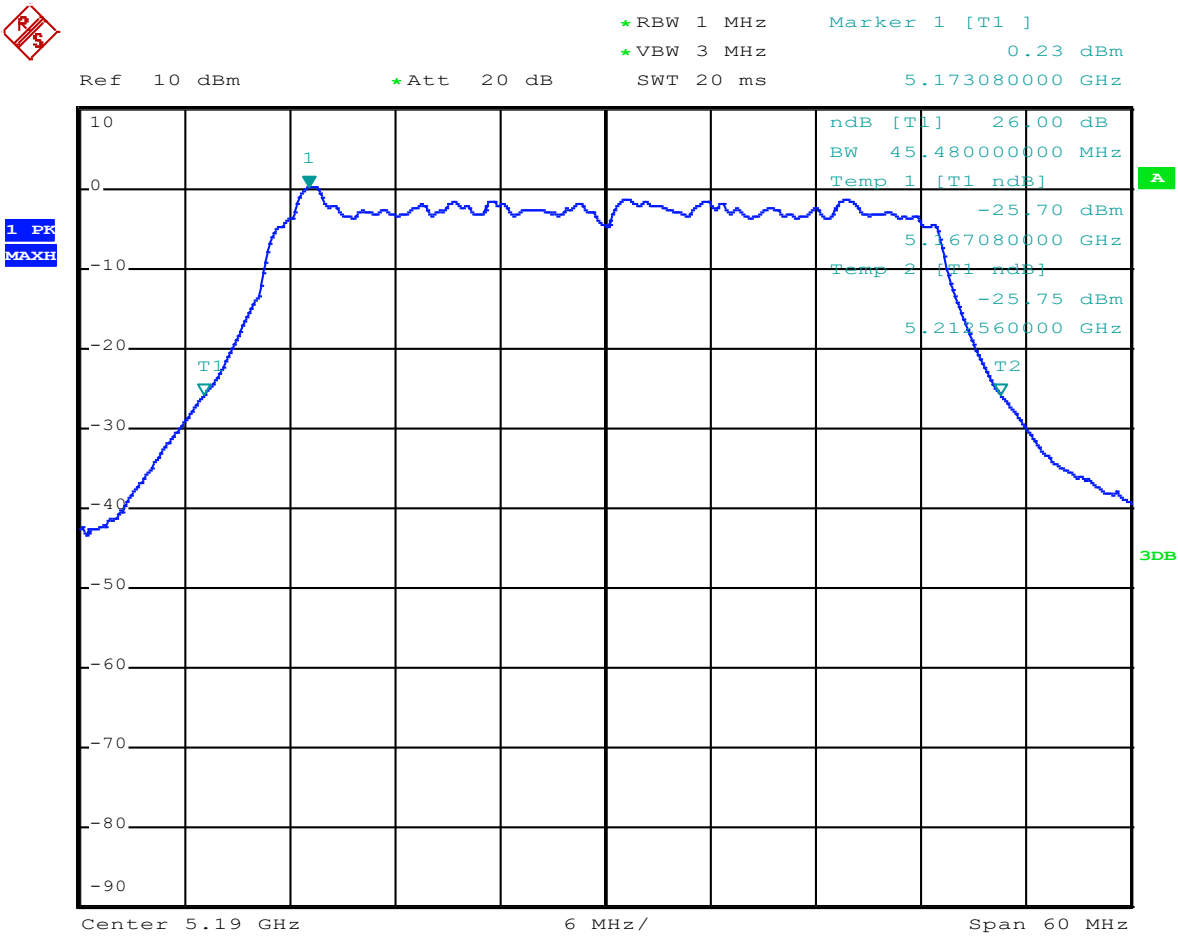
Note: Two antennas (J7 and J9) were tested and only the worst case was recorded in the test report. J7 was the worst case.



Test Configure

26dB Bandwidth

Channel 36

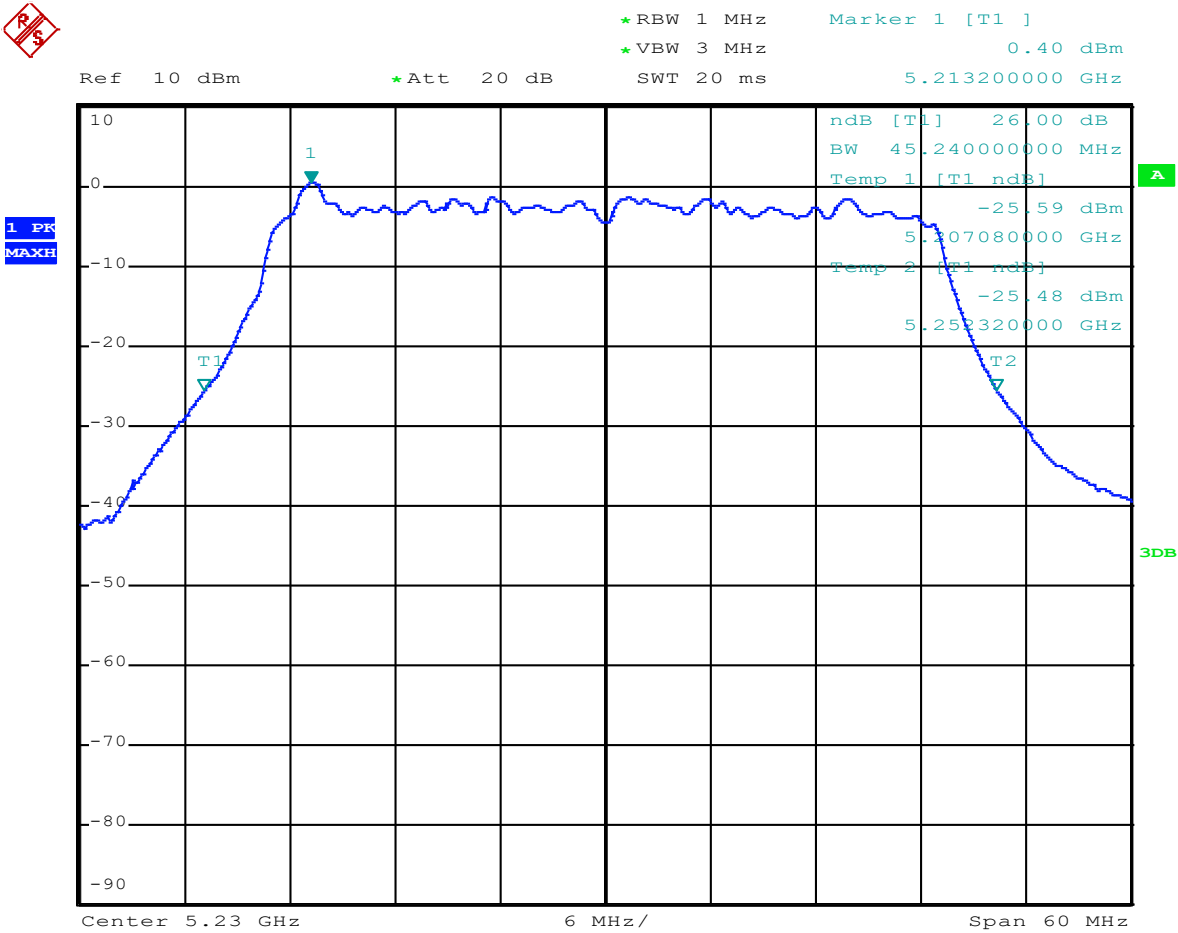


Date: 5.MAR.2026 18:11:13

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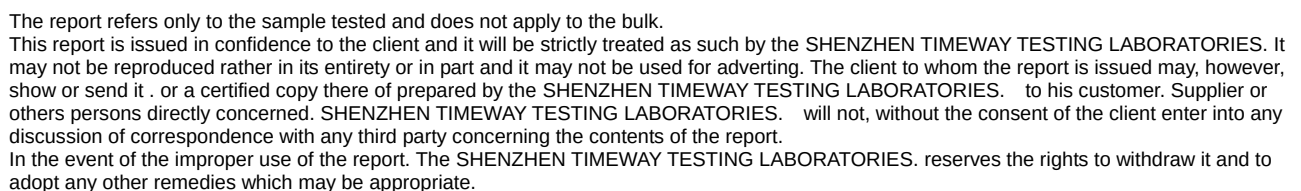


Channel 40

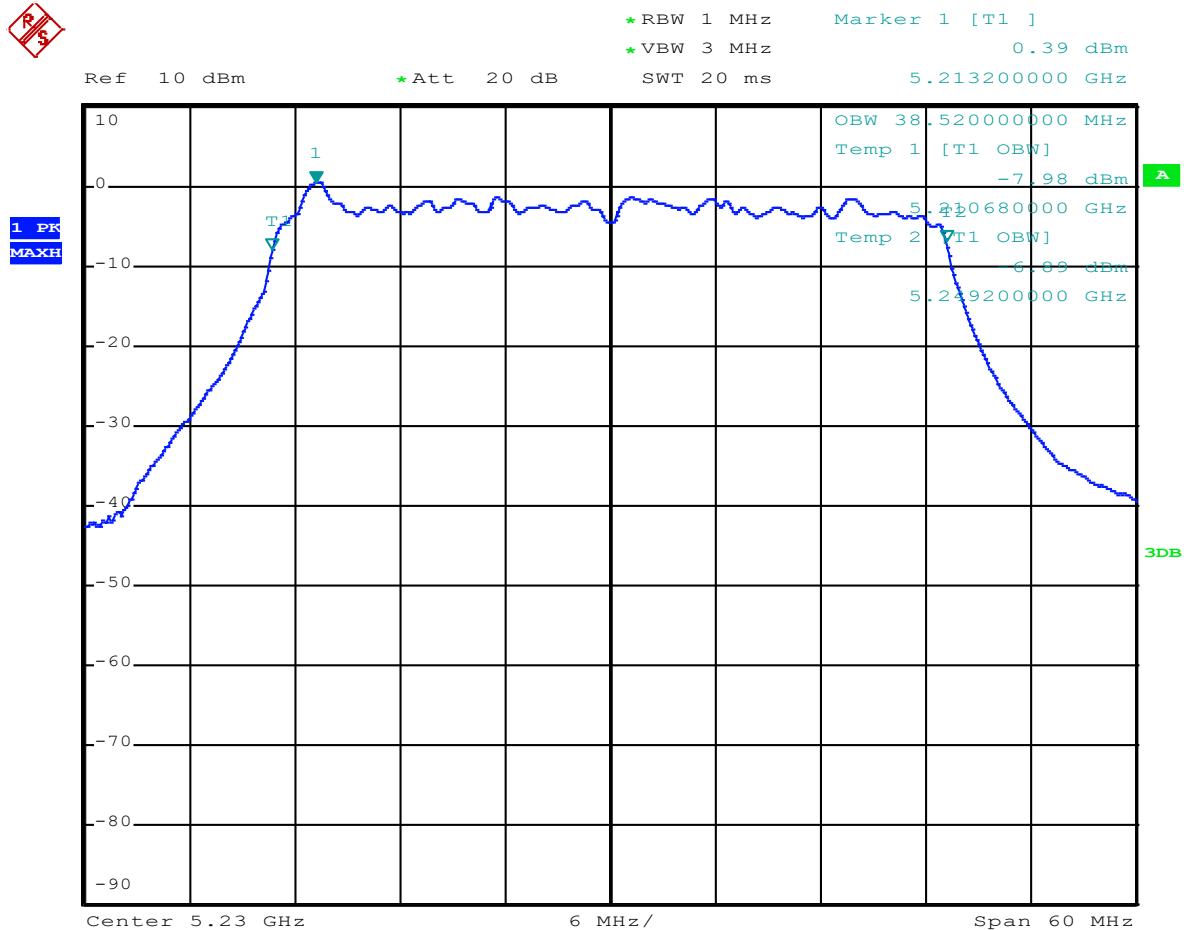


Date: 5.MAR.2026 18:14:45

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Channel 40



Date: 5.MAR.2026 18:13:54

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EUT		Mobile Video Switching Box		Model	PR0529A
Mode		802.11ax HEW80		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
26dB Bandwidth					
42	5210	mcs0	82.08	--	Pass
99% Bandwidth					
42	5210	mcs0	77.28	--	Pass

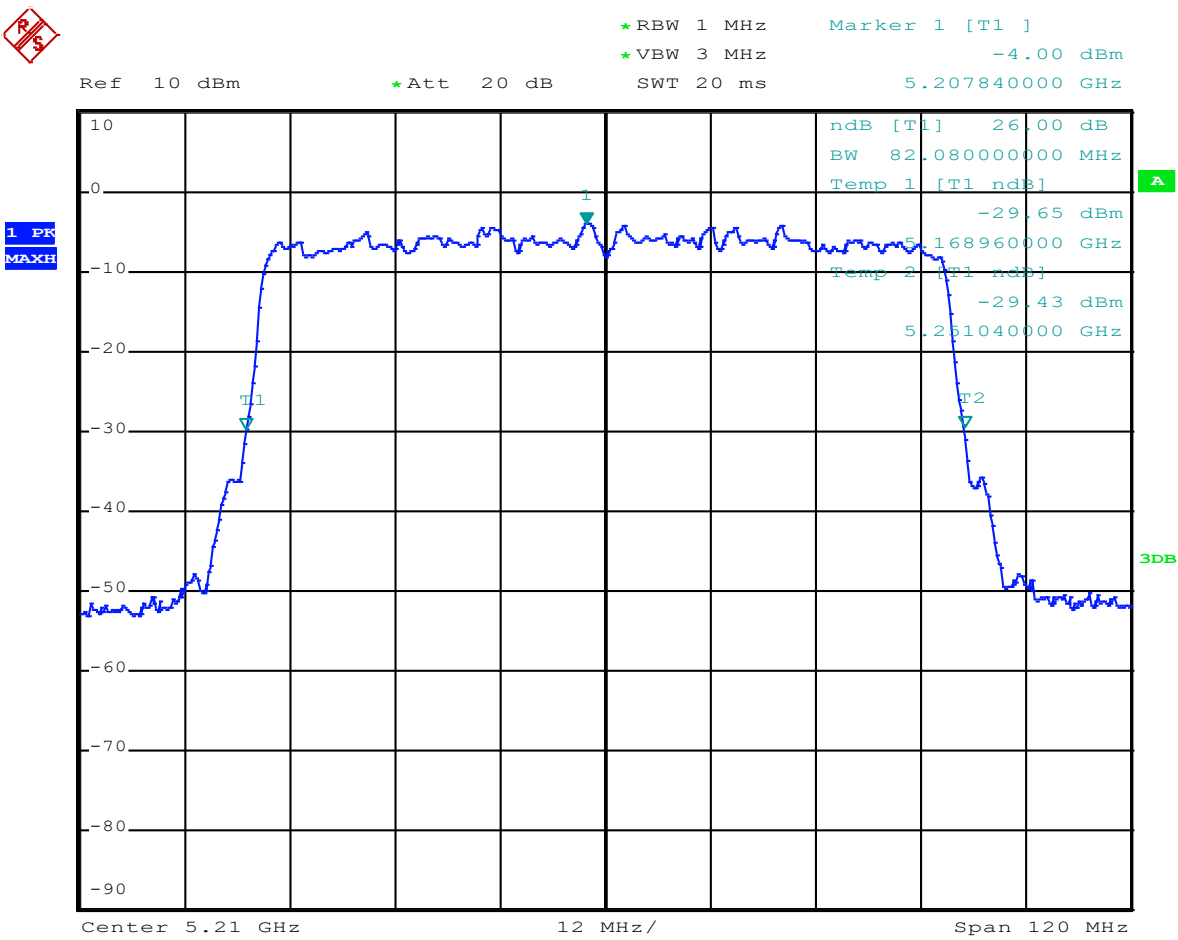
Note: Two antennas (J7 and J9) were tested and only the worst case was recorded in the test report. J7 was the worst case.



Test Configure

26dB Bandwidth

Channel 42



Date: 5.MAR.2026 18:26:26

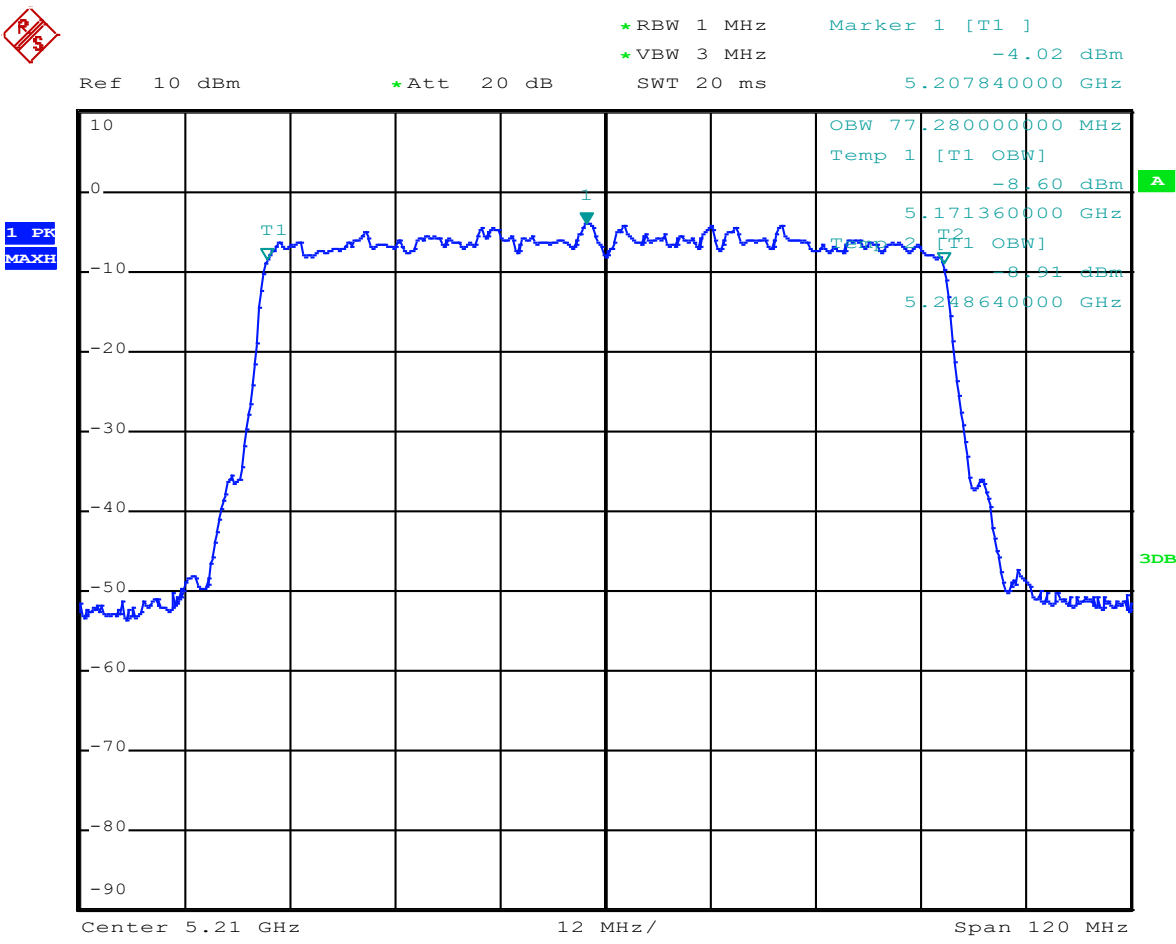
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Test Configure

99% Bandwidth

Channel 42



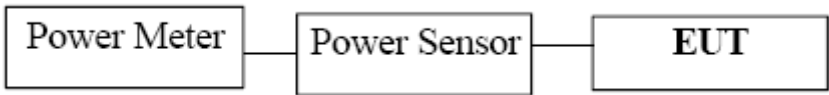
Date: 5.MAR.2026 18:25:06

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

8.3 Test Procedure

The RF power output was measured with a Power meter 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		Mobile Video Switching Box		Model	PR0529A	
Mode		802.11a		Test Voltage	120V~	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Frequency (MHz)	J7 Power	J9 Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	dBm			
36	5180	1.01	0.80	--	24	Pass
40	5200	0.40	0.13	--	24	Pass
48	5240	0.43	0.53	--	24	Pass

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

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

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EUT		Mobile Video Switching Box	Model	PR0529A		
Mode		802.11n HT20	Test Voltage	120V~		
Temperature		24 deg. C,	Humidity	56% RH		
Channel	Frequency (MHz)	J7 Power	J9 Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	dBm			
36	5180	-0.72	-0.85	2.23	24.41	Pass
40	5200	-0.50	-0.61	2.46	24.41	Pass
48	5240	-0.94	-1.09	2.00	24.41	Pass

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

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

4. Directional Gain=4.58+3.01=7.59dBi

5. Power Limit=24-(7.59-6) =22.41dBm

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EUT		Mobile Video Switching Box	Model	PR0529A		
Mode		802.11n HT40	Test Voltage	120V~		
Temperature		24 deg. C,	Humidity	56% RH		
Channel	Frequency (MHz)	J7 Power	J9 Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	dBm			
38	5190	-2.59	-2.64	0.40	22.41	Pass
46	5230	-2.09	-2.10	0.92	22.41	Pass

- Note: 1. At final test to get the worst-case emission at mcs0 for CH38 and CH46
2. The result basic equation calculation as follow:
Average Power Output = AV Power Reading + Cable loss + Attenuator
3. The worse case was recorded
4. Directional Gain=4.58+3.01=7.59dBi
5. Power Limit=24-(7.59-6) =22.41dBm

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EUT		Mobile Video Switching Box	Model	PR0529A		
Mode		802.11ac VHT20	Test Voltage	120V~		
Temperature		24 deg. C,	Humidity	56% RH		
Channel	Frequency (MHz)	J7 Power	J9 Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	dBm			
36	5180	-1.25	-1.33	1.72	22.41	Pass
40	5200	-1.33	-1.38	1.66	22.41	Pass
48	5240	-1.19	-1.27	1.78	22.41	Pass

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

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

4. Directional Gain=4.58+3.01=7.59dBi

5. Power Limit=24-(7.59-6) =22.41dBm

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EUT	Mobile Video Switching Box	Model	PR0529A			
Mode	802.11ac VHT40	Test Voltage	120V~			
Temperature	24 deg. C,	Humidity	56% RH			
Channel	Frequency (MHz)	J7 Power	J9 Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	dBm			
38	5190	-2.23	-2.24	0.78	22.41	Pass
46	5230	-2.11	-2.18	0.87	22.41	Pass

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

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

4. Directional Gain=4.58+3.01=7.59dBi

5. Power Limit=24-(7.59-6) =22.41dBm

EUT	Mobile Video Switching Box	Model	PR0529A			
Mode	802.11ac VHT80	Test Voltage	120V~			
Temperature	24 deg. C,	Humidity	56% RH			
Channel	Frequency (MHz)	J7 Power	J9 Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	dBm			
42	5210	-4.98	-5.02	-1.99	22.41	Pass

Note: 1. At final test to get the worst-case emission at mcs0 s for CH42

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

4. Directional Gain=4.58+3.01=7.59dBi

5. Power Limit=24-(7.59-6) =22.41dBm

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EUT		Mobile Video Switching Box	Model	PR0529A		
Mode		802.11ax HEW20	Test Voltage	120V~		
Temperature		24 deg. C,	Humidity	56% RH		
Channel	Frequency (MHz)	ANT1 Power	ANT2 Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	dBm			
36	5180	-0.57	-0.82	2.32	22.41	Pass
40	5200	-1.89	-1.94	1.10	22.41	Pass
48	5240	-0.40	-0.75	2.44	22.41	Pass

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

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

4. Directional Gain=4.58+3.01=7.59dBi

5. Power Limit=24-(7.59-6) =22.41dBm

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EUT		Mobile Video Switching Box	Model	PR0529A		
Mode		802.11ax HEW40	Test Voltage	120V~		
Temperature		24 deg. C,	Humidity	56% RH		
Channel	Frequency (MHz)	J7 Power	J9 Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	dBm			
38	5190	-3.05	-3.06	-0.04	22.41	Pass
46	5230	-2.43	-2.49	0.55	22.41	Pass

- Note: 1. At final test to get the worst-case emission at mcs0 for CH38 and CH46
2. The result basic equation calculation as follow:
Average Power Output = AV Power Reading + Cable loss + Attenuator
3. The worse case was recorded
4. Directional Gain=4.58+3.01=7.59dBi
5. Power Limit=24-(7.59-6) =22.41dBm

EUT		Mobile Video Switching Box	Model	PR0529A		
Mode		802.11ax HEW80	Test Voltage	120V~		
Temperature		24 deg. C,	Humidity	56% RH		
Channel	Frequency (MHz)	J7 Power	J9 Power	Total Power (dBm)	Limit (dBm)	Pass/ Fail
		dBm	dBm			
42	5210	-5.68	-5.71	-2.68	22.41	Pass

- Note: 1. At final test to get the worst-case emission at mcs0 s for CH42
2. The result basic equation calculation as follow:
Average Power Output = AV Power Reading + Cable loss + Attenuator
3. The worse case was recorded
4. Directional Gain=4.58+3.01=7.59dBi
5. Power Limit=24-(7.59-6) =22.41dBm

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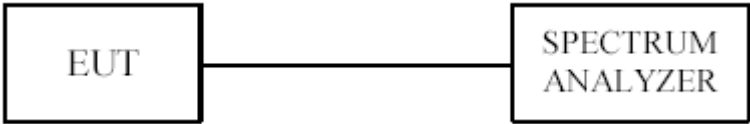
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

Operation Band	Limit
U-NII-1	11dBm/MHz

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.

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

EUT	Mobile Video Switching Box		Model	PR0529A		
Mode	802.11a 6Mbps		Test Voltage	120V~		
Temperature	24 deg. C,		Humidity	56% RH		
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm)	Pass/ Fail
36	5180	-5.80	-	--	11	Pass
40	5200	-5.45	--	--	11	Pass
48	5240	-5.59	--	--	11	Pass

Note: Two antennas were tested and only the worst cased was recorded in the test report. J7 was the worst case.

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

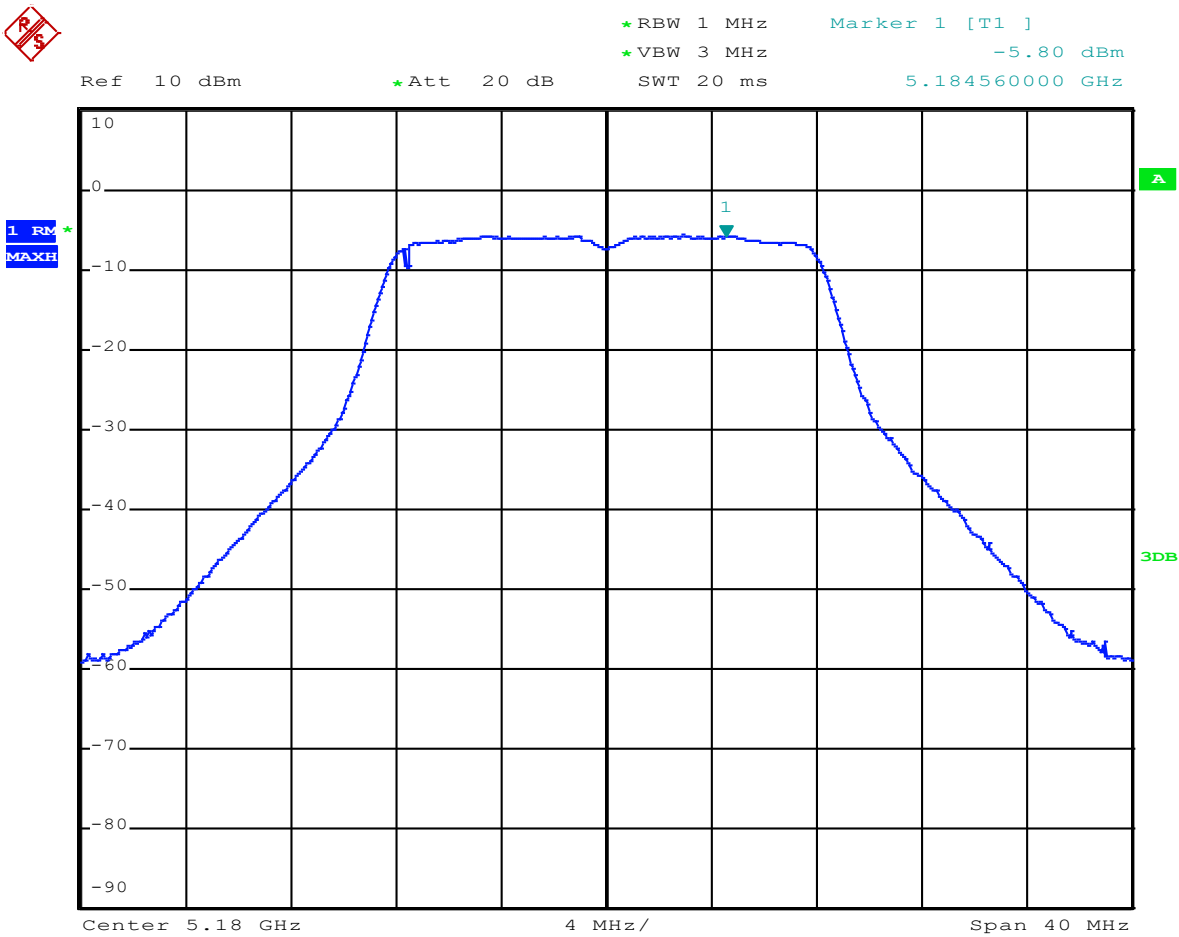
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9.5 Plots of Power Spectral Density Measurement

1.802.11a at 6Mbps of CH36

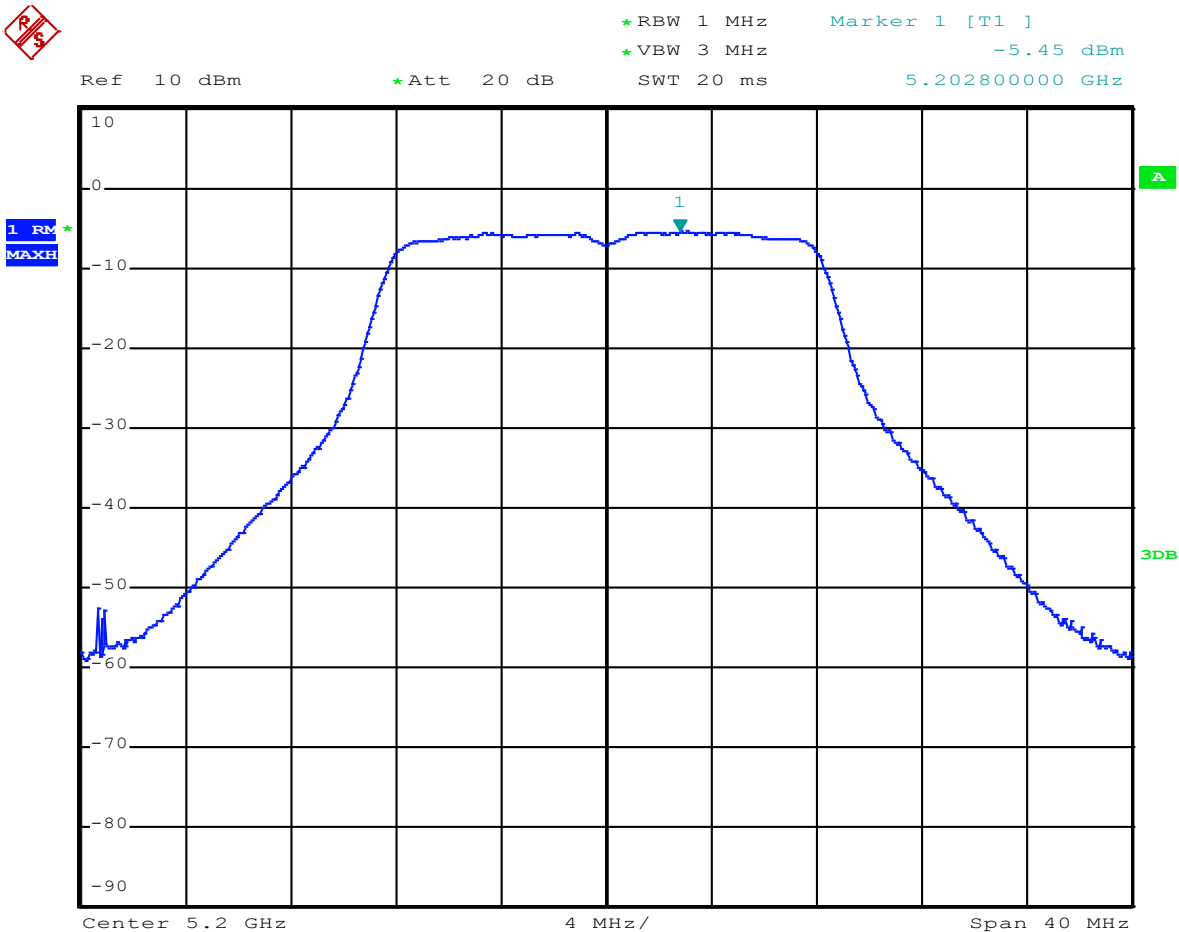


Date: 6.MAR.2026 16:14:36

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2.802.11a at 6Mbps of CH40

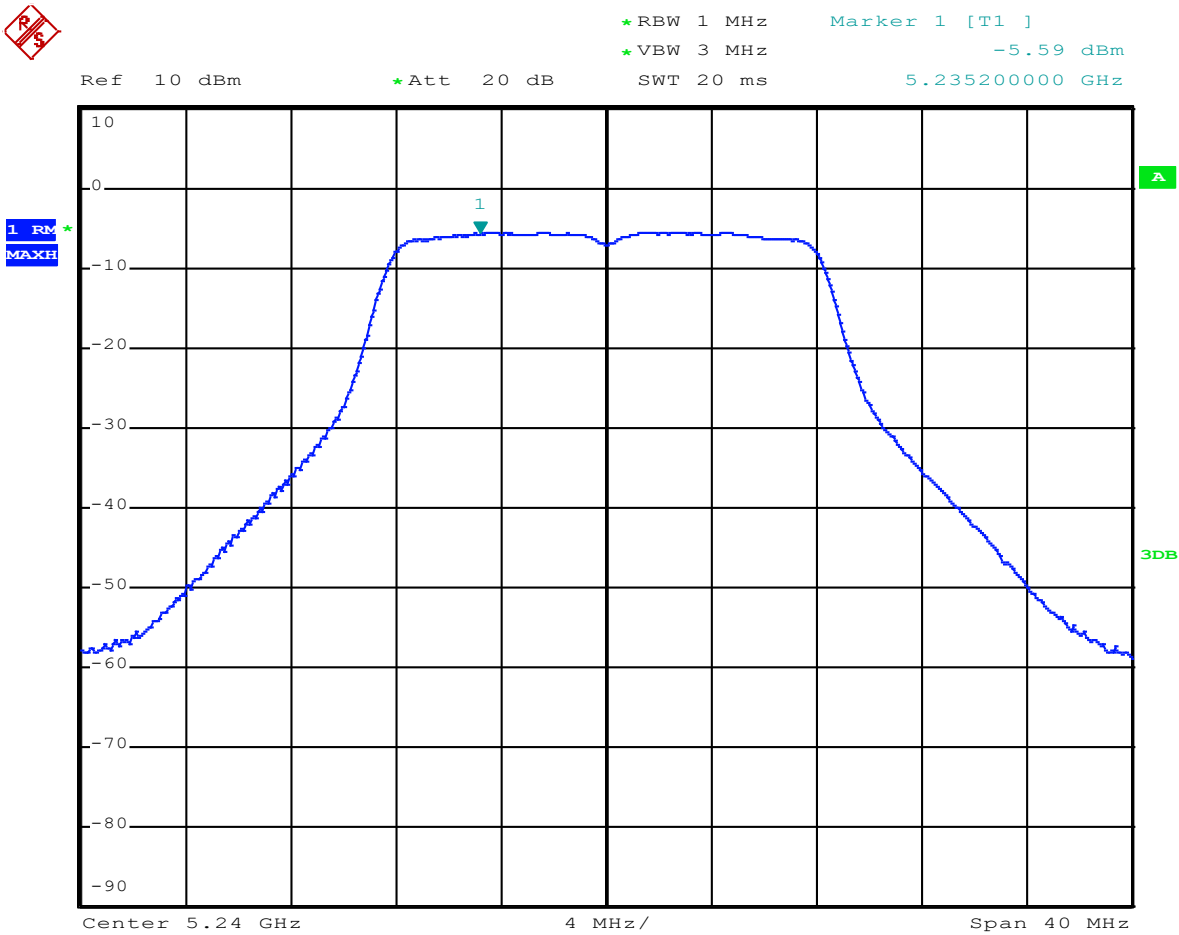


Date: 6.MAR.2026 16:19:59

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3.802.11a at 6Mbps of CH48



Date: 6.MAR.2026 16:21:36

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EUT		Mobile Video Switching Box		Model		PR0529A	
Mode		802.11n HT20 mcs0		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
36	5180	-6.03	3.01	-3.02	9.41	Pass	
40	5200	-5.68	3.01	-2.67	9.41	Pass	
48	5240	-5.94	3.01	-2.93	9.41	Pass	

- Note: 1. Two antennas were tested and only the worst case was recorded in the test report. J7 was the worst case.
2. The worse case was recorded
3. Directional Gain=4.58+3.01=7.59dBi
4. PSD Limit=11-(7.59-6) =9.41dBm/MHz

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

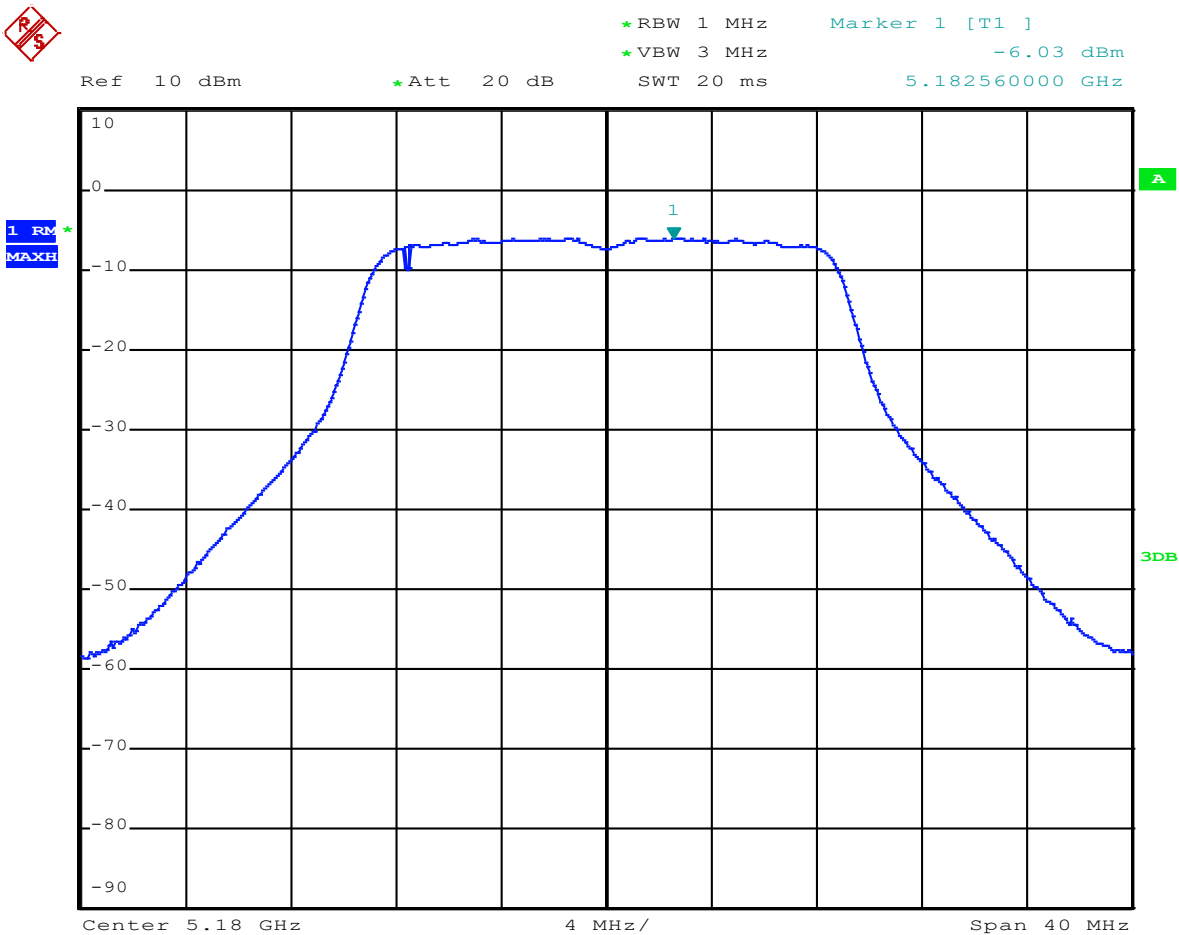
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Test Plots

1.802.11n at mcs0 of CH36

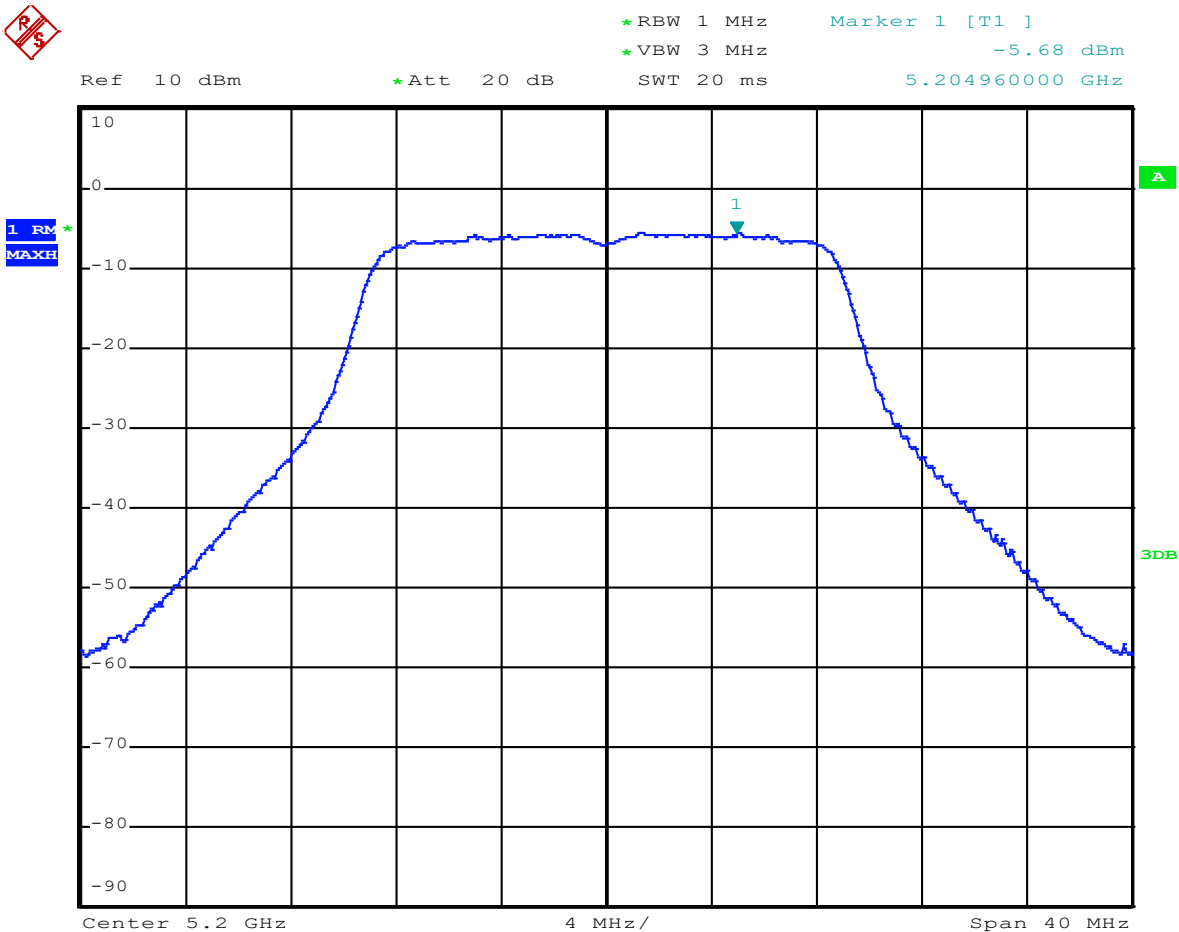


Date: 6.MAR.2026 16:44:28

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2.802.11n at mcs0 of CH40

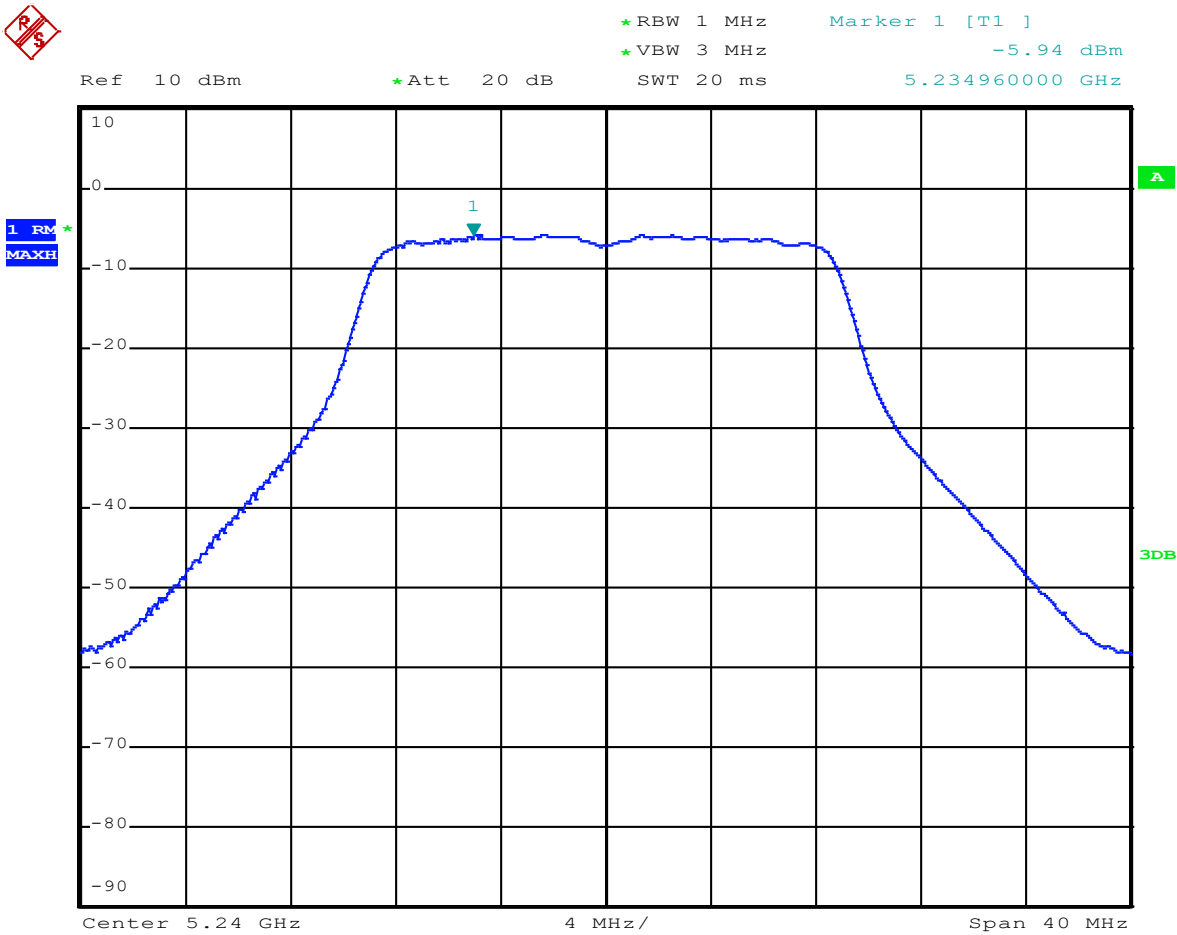


Date: 6.MAR.2026 16:38:27

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3.802.11n at mcs0 of CH48



Date: 6.MAR.2026 16:35:31

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EUT		Mobile Video Switching Box		Model		PR0529A	
Mode		802.11n HT40 mcs0		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)		Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
38	5190	-8.65		3.01	-5.64	9.41	Pass
46	5230	-8.48		3.01	-5.47	9.41	Pass

- Note: 1. Two antennas were tested and only the worst case was recorded in the test report. J7 was the worst case.
2. The worse case was recorded
3. Directional Gain=4.58+3.01=7.59dBi
4. PSD Limit=11-(7.59-6) =9.41dBm/MHz

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

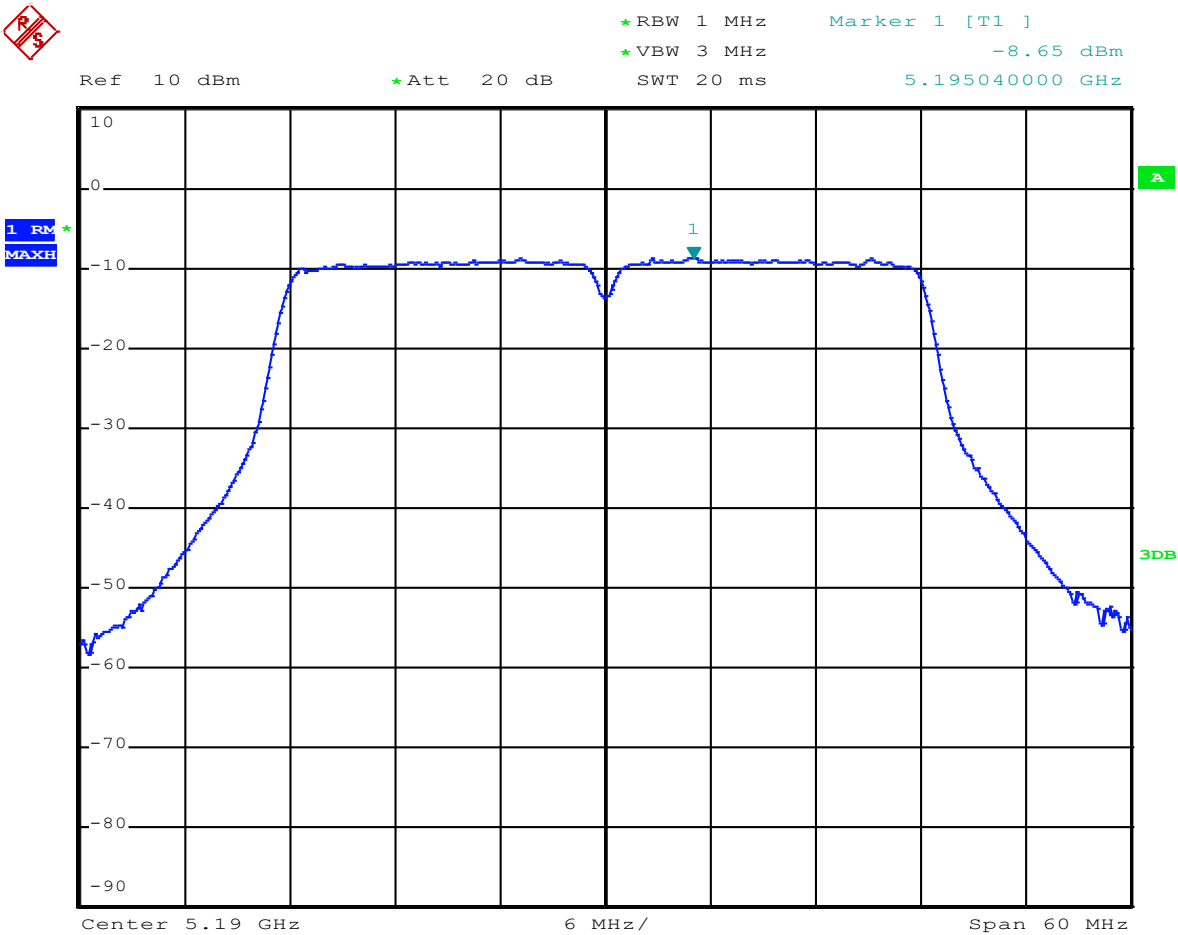
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Test Plots

1.802.11n HT40 at mcs0 of CH38

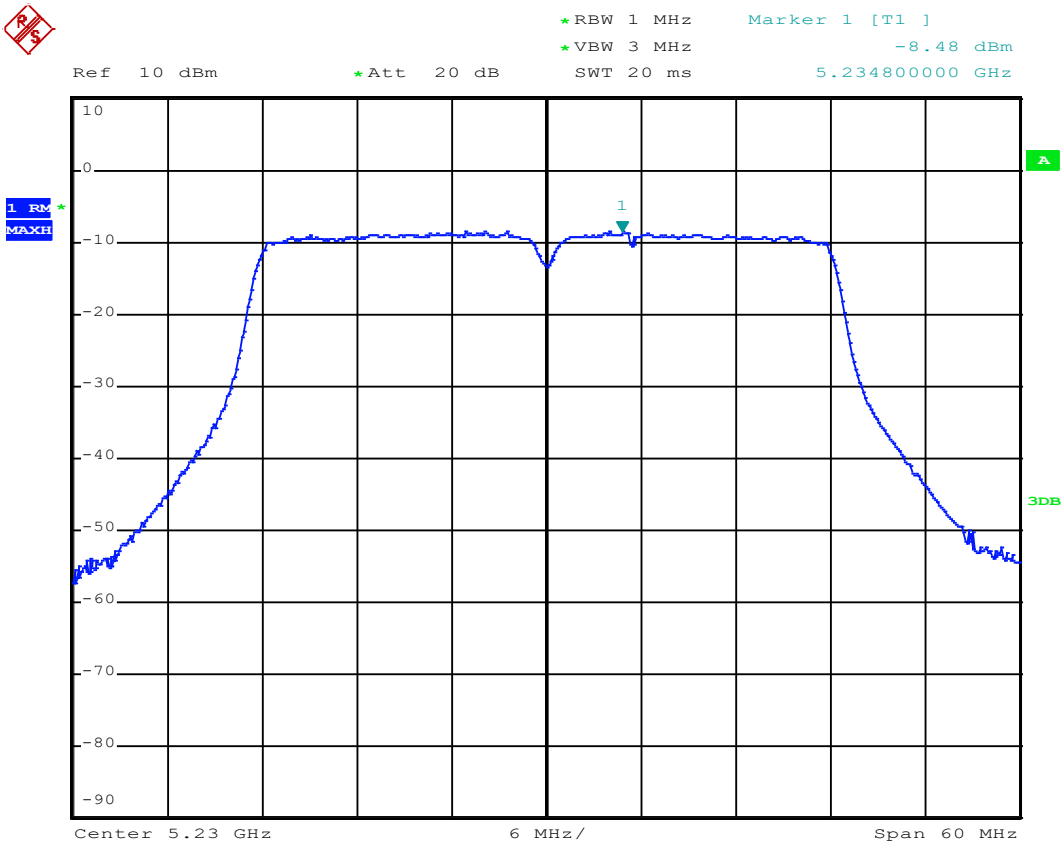


Date: 6.MAR.2026 15:50:31

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2.802.11n HT40 at mcs0 of CH46



Date: 6.MAR.2026 15:52:25

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EUT		Mobile Video Switching Box		Model		PR0529A	
Mode		802.11ac VHT20		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
36	5180	-5.73	3.01	-2.72	9.41	Pass	
40	5200	-5.57	3.01	-2.56	9.41	Pass	
48	5240	-5.65	3.01	-2.64	9.41	Pass	

- Note: 1. Two antennas were tested and only the worst case was recorded in the test report. J7 was the worst case.
2. The worse case was recorded
3. Directional Gain=4.58+3.01=7.59dBi
4. PSD Limit=11-(7.59-6) =9.41dBm/MHz

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

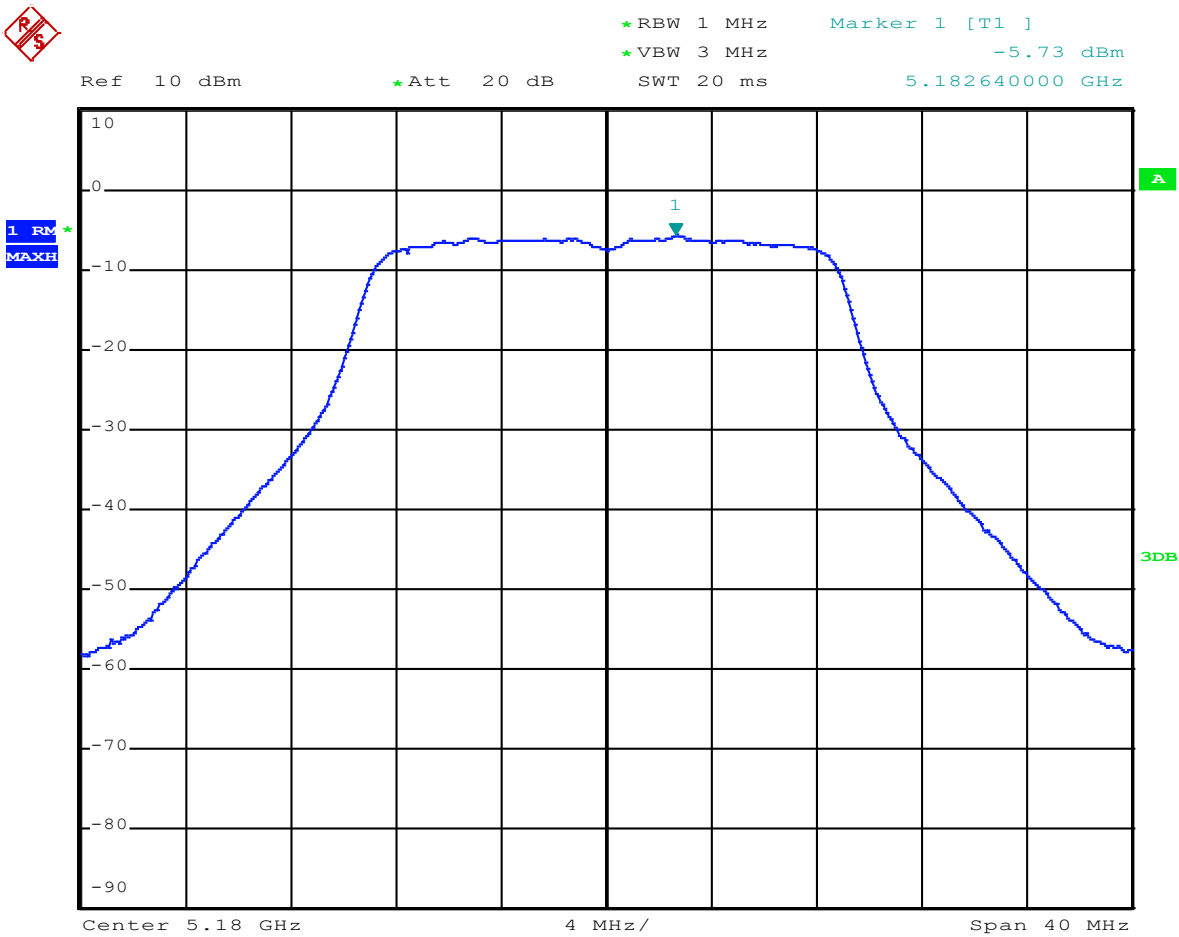
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Test Plots

1.802.11ac at mcs0 of CH36

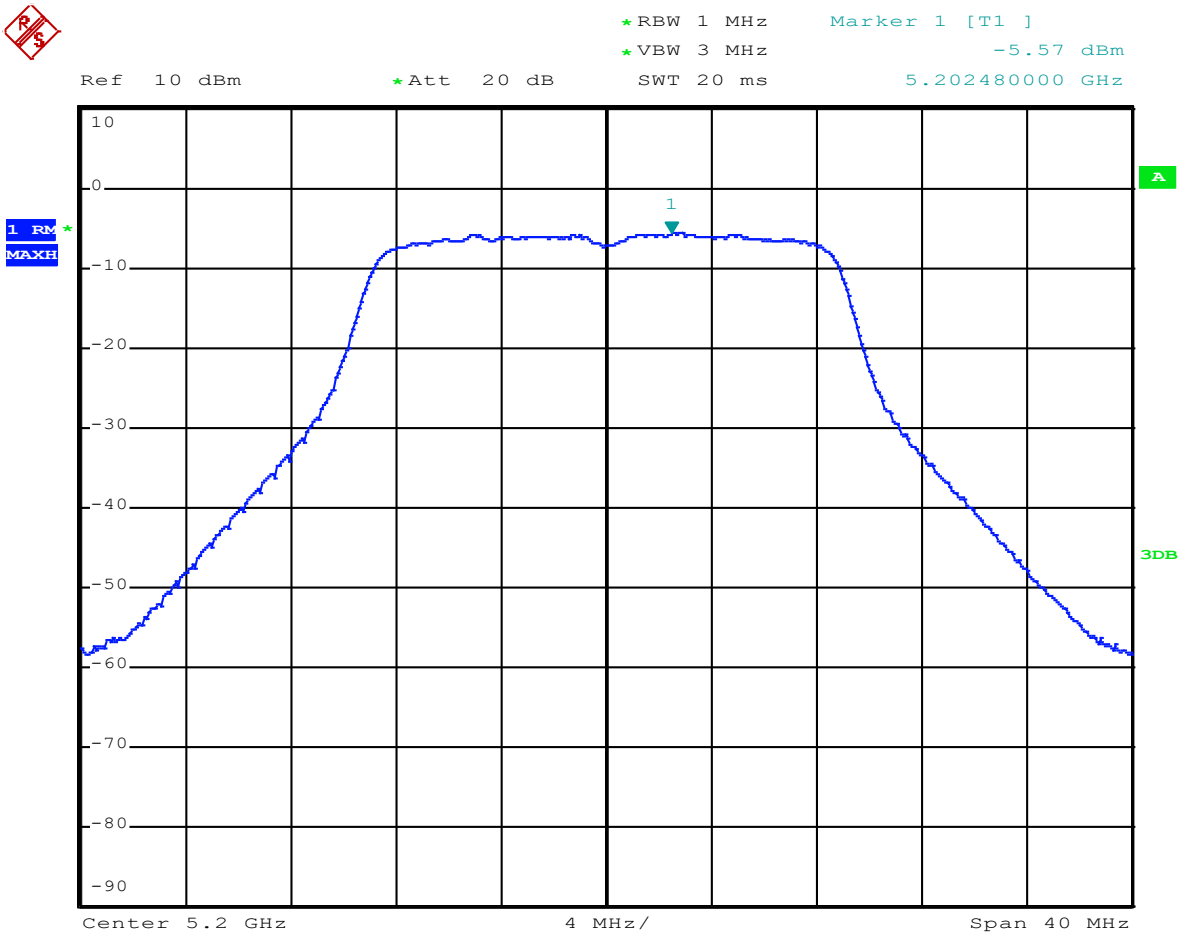


Date: 6.MAR.2026 16:45:58

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2.802.11ac at mcs0 of CH40

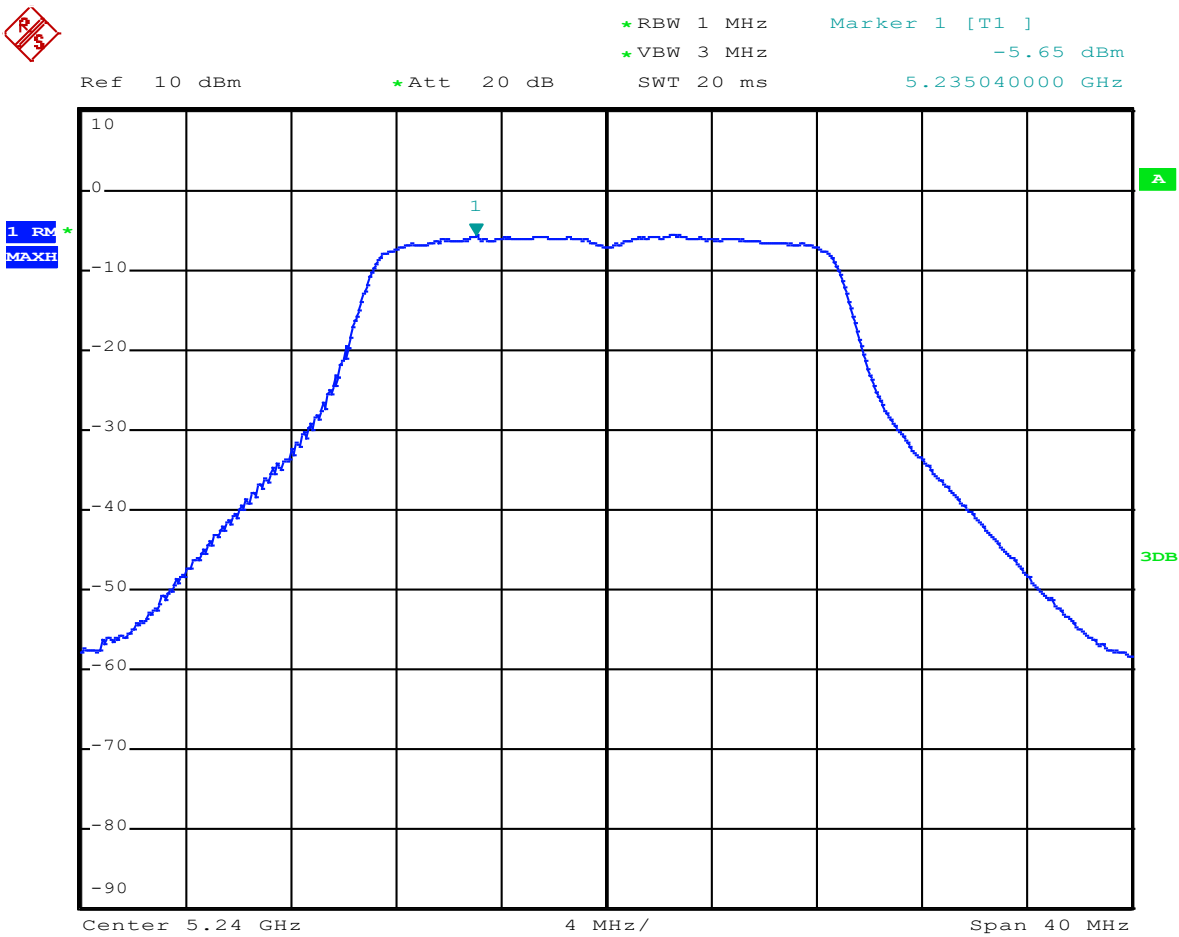


Date: 6.MAR.2026 16:57:13

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3.802.11ac at mcs0 of CH48



Date: 6.MAR.2026 16:58:08

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EUT		Mobile Video Switching Box		Model		PR0529A	
Mode		802.11ac VHT40		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)		Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
38	5190	-8.59		3.01	-5.58	9.41	Pass
46	5230	-8.56		3.01	-5.55	9.41	Pass

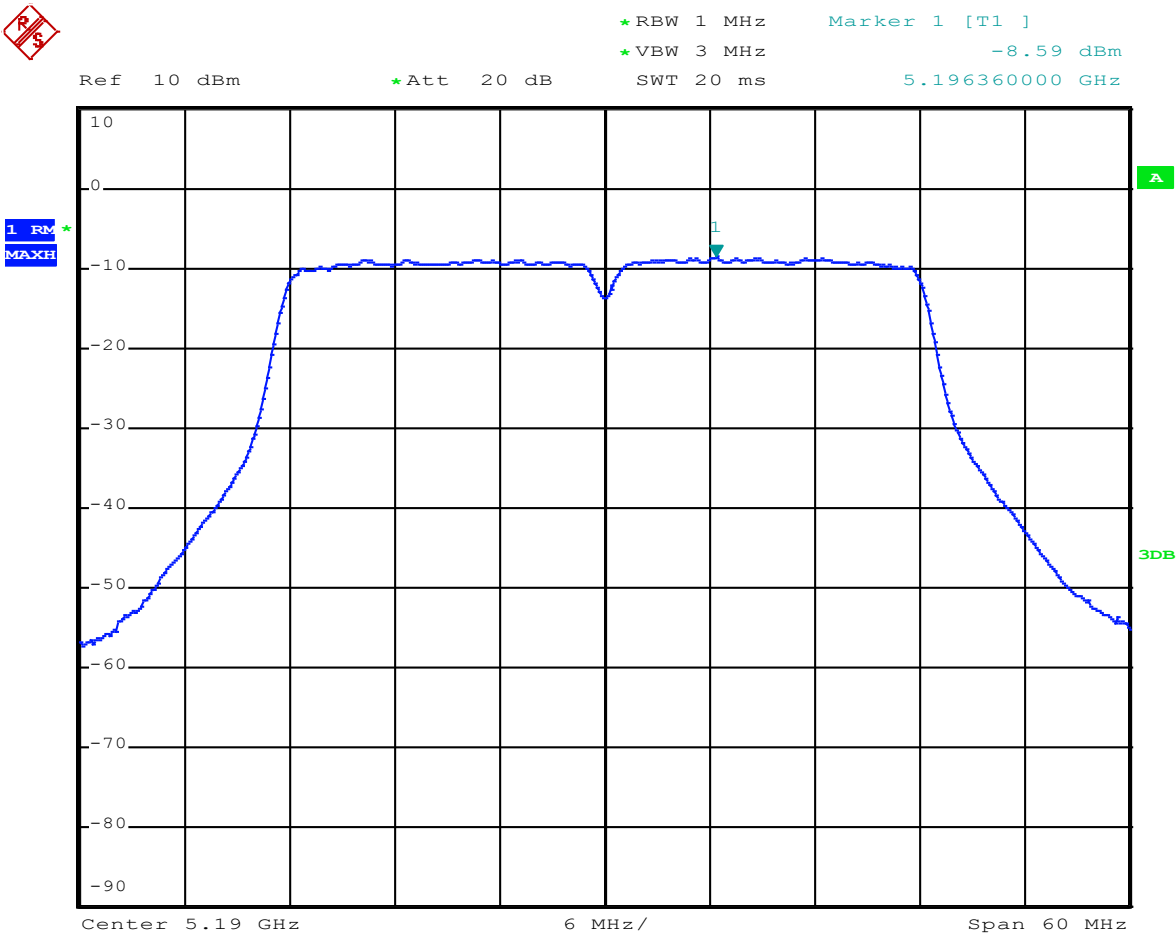
- Note: 1. Two antennas were tested and only the worst case was recorded in the test report. J7 was the worst case.
2. The worse case was recorded
3. Directional Gain=4.58+3.01=7.59dBi
4. PSD Limit=11-(7.59-6) =9.41dBm/MHz

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Test Plots

1.802.11ac at mcs0 of CH38

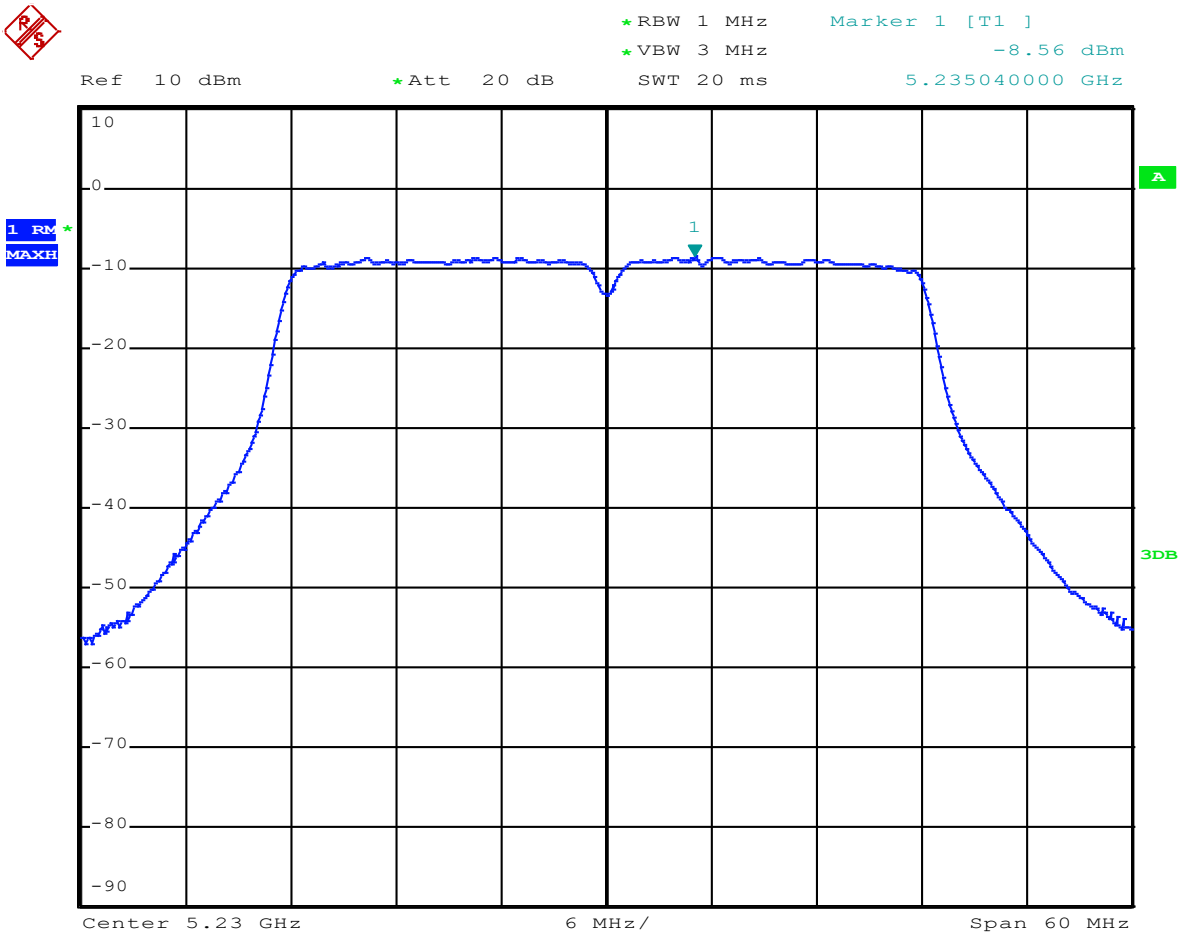


Date: 6.MAR.2026 16:11:30

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2.802.11ac at mcs0 of CH46



Date: 6.MAR.2026 16:05:30

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EUT		Mobile Video Switching Box		Model		PR0529A	
Mode		802.11ac VHT80 mcs0Mbps		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)		Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
42	5210	-11.73		3.01	-8.72	9.41	Pass

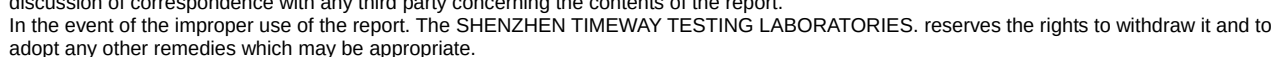
- Note: 1. Two antennas were tested and only the worst case was recorded in the test report. J7 was the worst case.
2. The worse case was recorded
3. Directional Gain=4.58+3.01=7.59dBi
4. PSD Limit=11-(7.59-6) =9.41dBm/MHz

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EUT		Mobile Video Switching Box		Model		PR0529A	
Mode		802.11ax HEW20		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
36	5180	-5.92	3.01	-2.91	9.41	Pass	
40	5200	-5.56	3.01	-2.55	9.41	Pass	
48	5240	-5.65	3.01	-2.64	9.41	Pass	

- Note: 1. Two antennas were tested and only the worst case was recorded in the test report. J7 was the worst case.
2. The worse case was recorded
3. Directional Gain=4.58+3.01=7.59dBi
4. PSD Limit=11-(7.59-6) =9.41dBm/MHz

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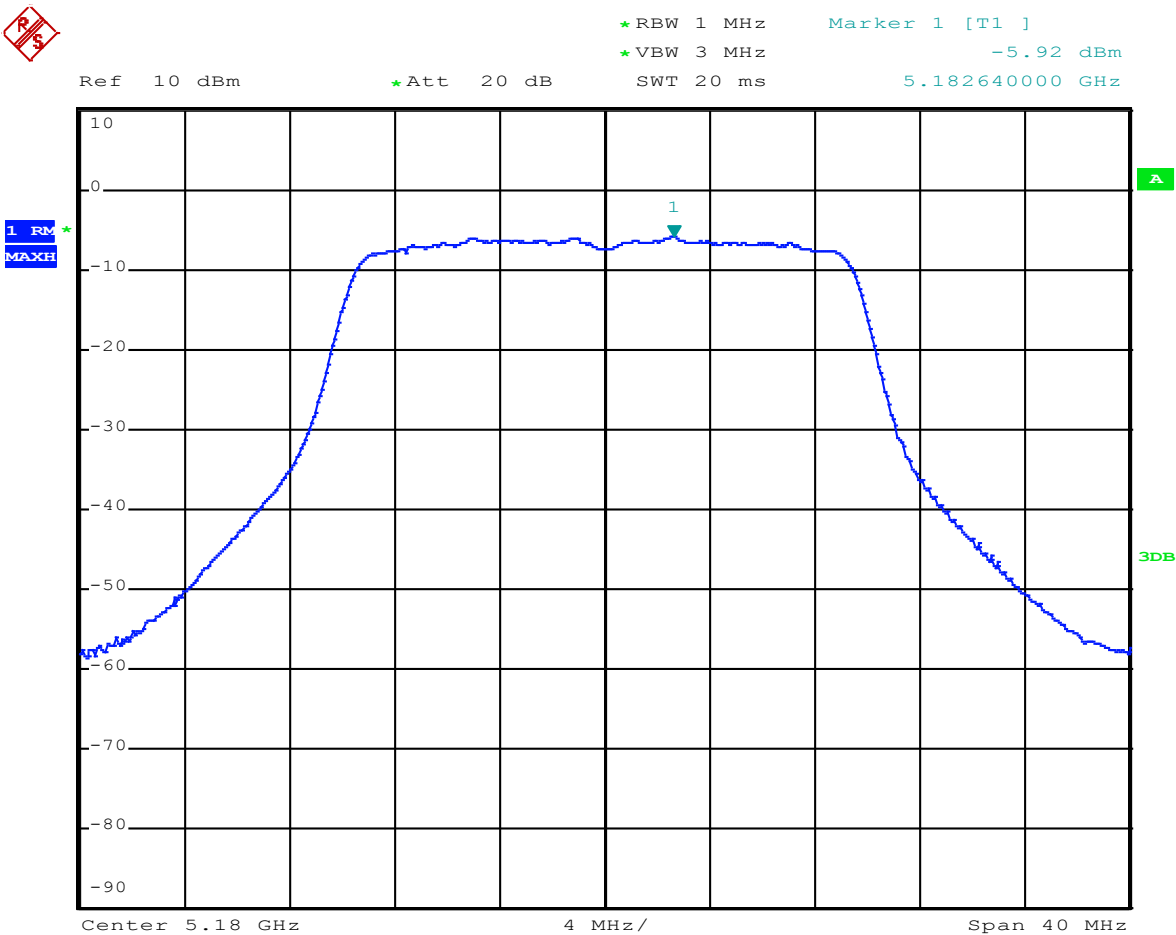
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Test Plots

1.802.11ac at mcs0 of CH36

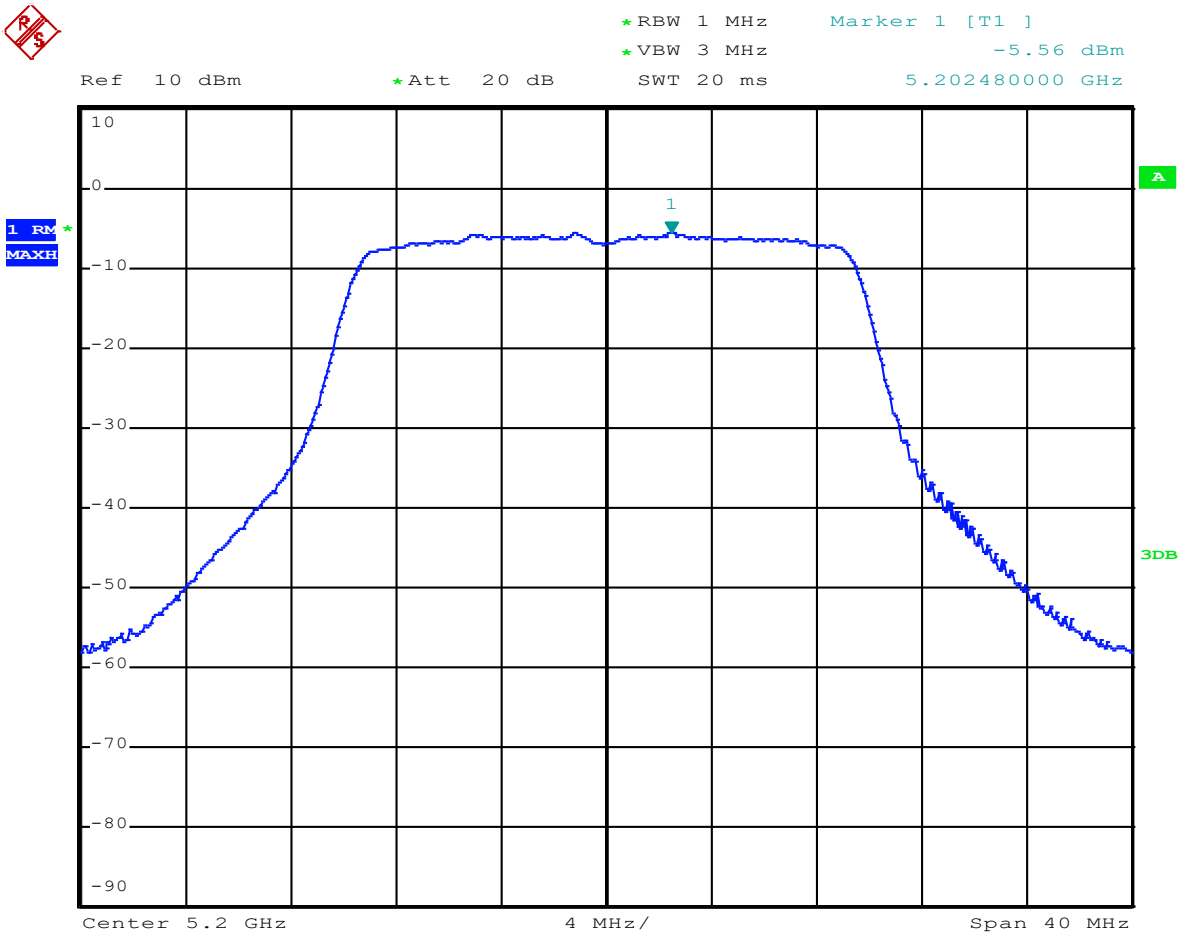


Date: 6.MAR.2026 17:12:11

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2.802.11ac at mcs0 of CH40

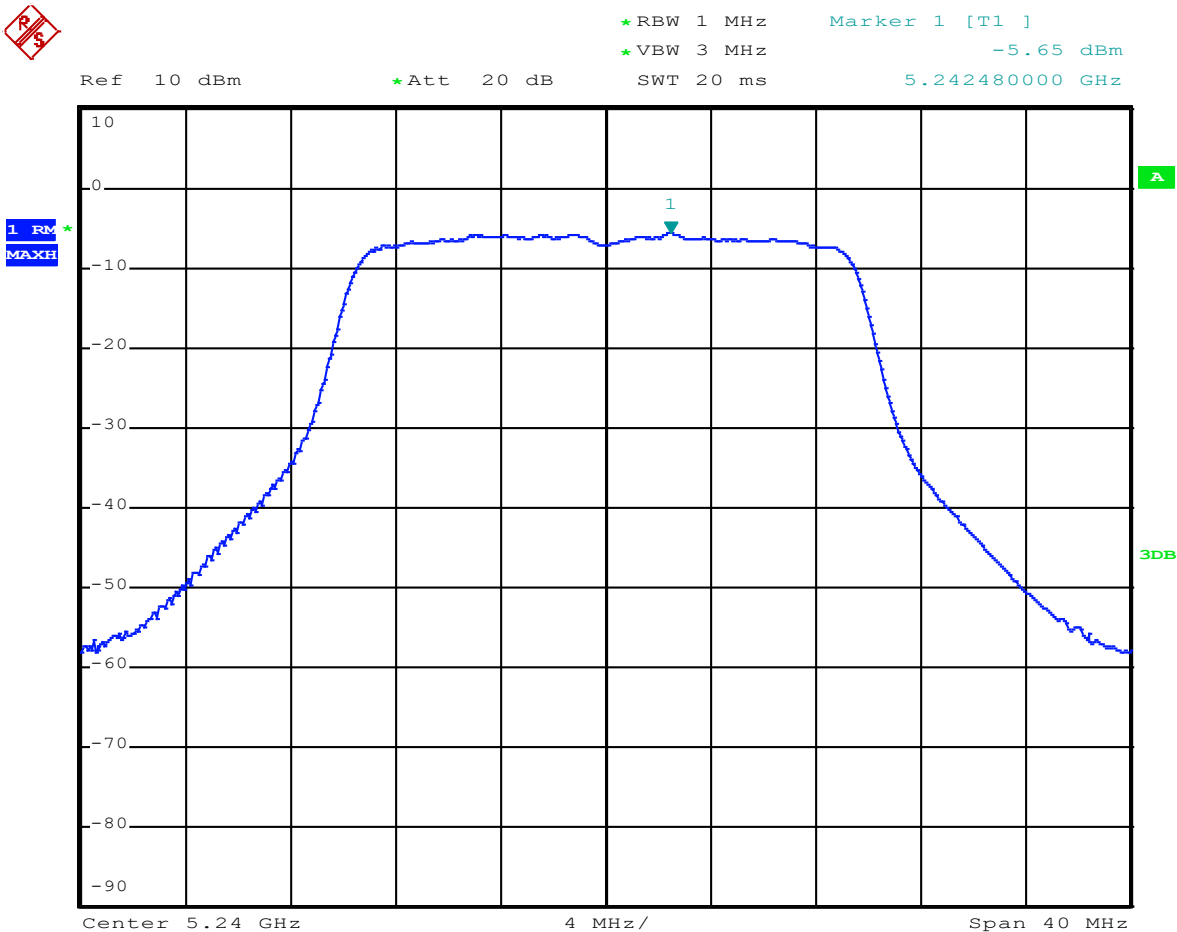


Date: 6.MAR.2026 17:06:33

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3.802.11ac at mcs0 of CH48



Date: 6.MAR.2026 17:05:05

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EUT		Mobile Video Switching Box		Model		PR0529A	
Mode		802.11ax HEW40		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)		Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail
38	5190	-8.87		3.01	-5.86	9.41	Pass
46	5230	-8.67		3.01	-5.66	9.41	Pass

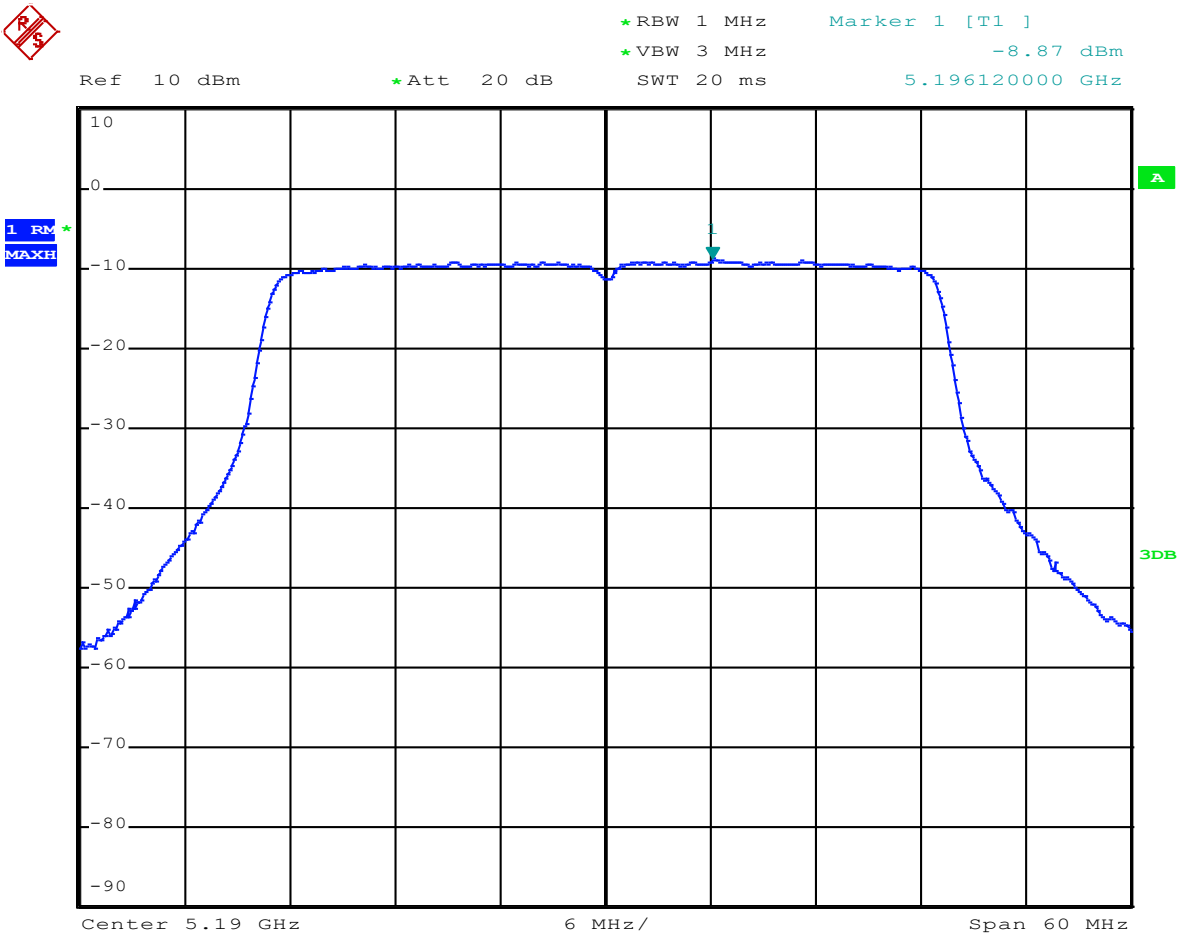
- Note: 1. Two antennas were tested and only the worst case was recorded in the test report. J7 was the worst case.
2. The worse case was recorded
3. Directional Gain=4.58+3.01=7.59dBi
4. PSD Limit=11-(7.59-6) =9.41dBm/MHz

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Test Plots

1.802.11ac at mcs0 of CH38

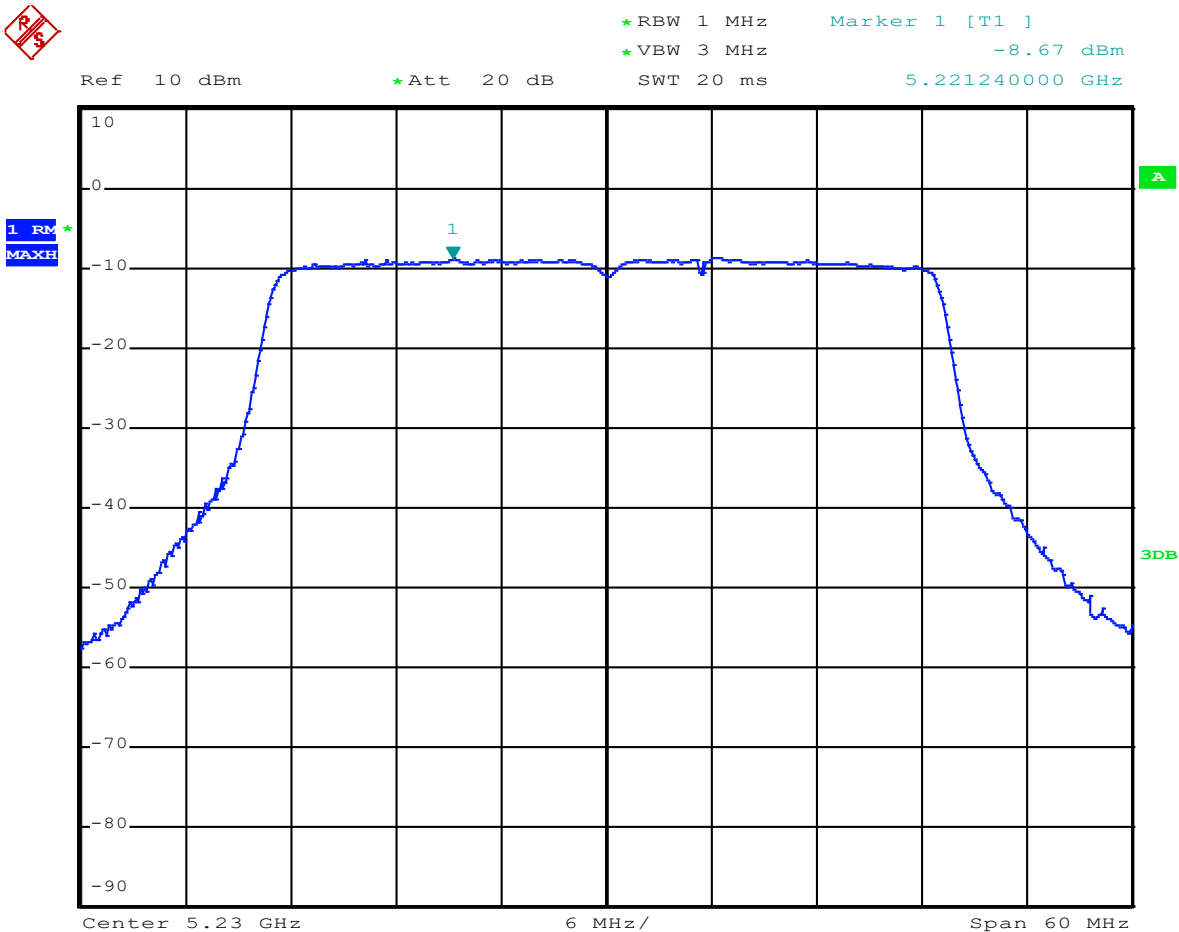


Date: 6.MAR.2026 16:12:11

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2.802.11ac at mcs0 of CH46



Date: 6.MAR.2026 16:14:04

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EUT		Mobile Video Switching Box		Model		PR0529A	
Mode		802.11ax HEW80 mcs0Mbps		Test Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Factor	Total Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Pass/ Fail	
42	5210	-12.32	3.01	-9.31	9.41	Pass	

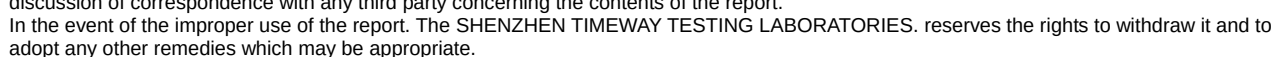
- Note: 1. Two antennas were tested and only the worst case was recorded in the test report. J7 was the worst case.
2. The worse case was recorded
3. Directional Gain=4.58+3.01=7.59dBi
4. PSD Limit=11-(7.59-6) =9.41dBm/MHz

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1 RM ★
MAXH





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.

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10.3 Test Result

Channel 36 (5180MHz)

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
120V~	5180.0367
108V~	5180.0378
132V~	5180.0364
Max. Deviation (MHz)	0.0374
Max. Deviation (ppm)	7.32

Rated working voltage: 120V~

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
-30	5180.0376
-20	5180.0358
-10	5180.0387
0	5180.0354
10	5180.0363
20	5180.0378
30	5180.0384
40	5180.0376
50	5180.0367
Max. Deviation (MHz)	0.0386
Max. Deviation (ppm)	7.32

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11.0 Antenna Requirement

11.1 Standard Applicable

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

And according to FCC 47 CFR Section 15.407 (a) (iv), If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Two Dipole antenna with reverse polarity antenna connector. The gain of the antennas is 4.58dBi for both Main Antenna (J7) and Aux Antenna (J9) (Get from the antenna specification provided the manufacturer)

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12.0 FCC Label

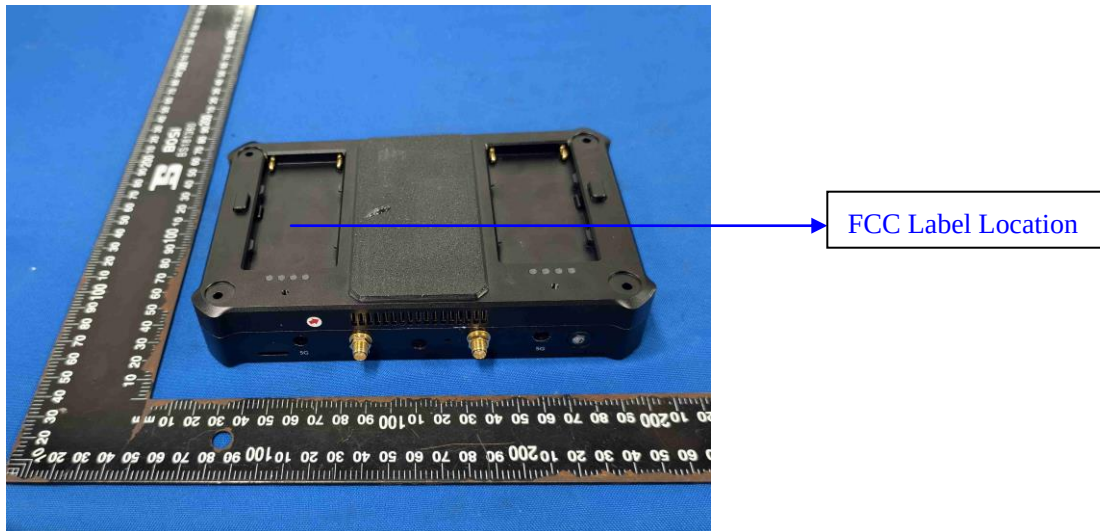
FCC ID: 2AP6W-DIRECTOR55290

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation

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

Mark Location:



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13.0 Photo of testing

Conducted Emission Test Setup:



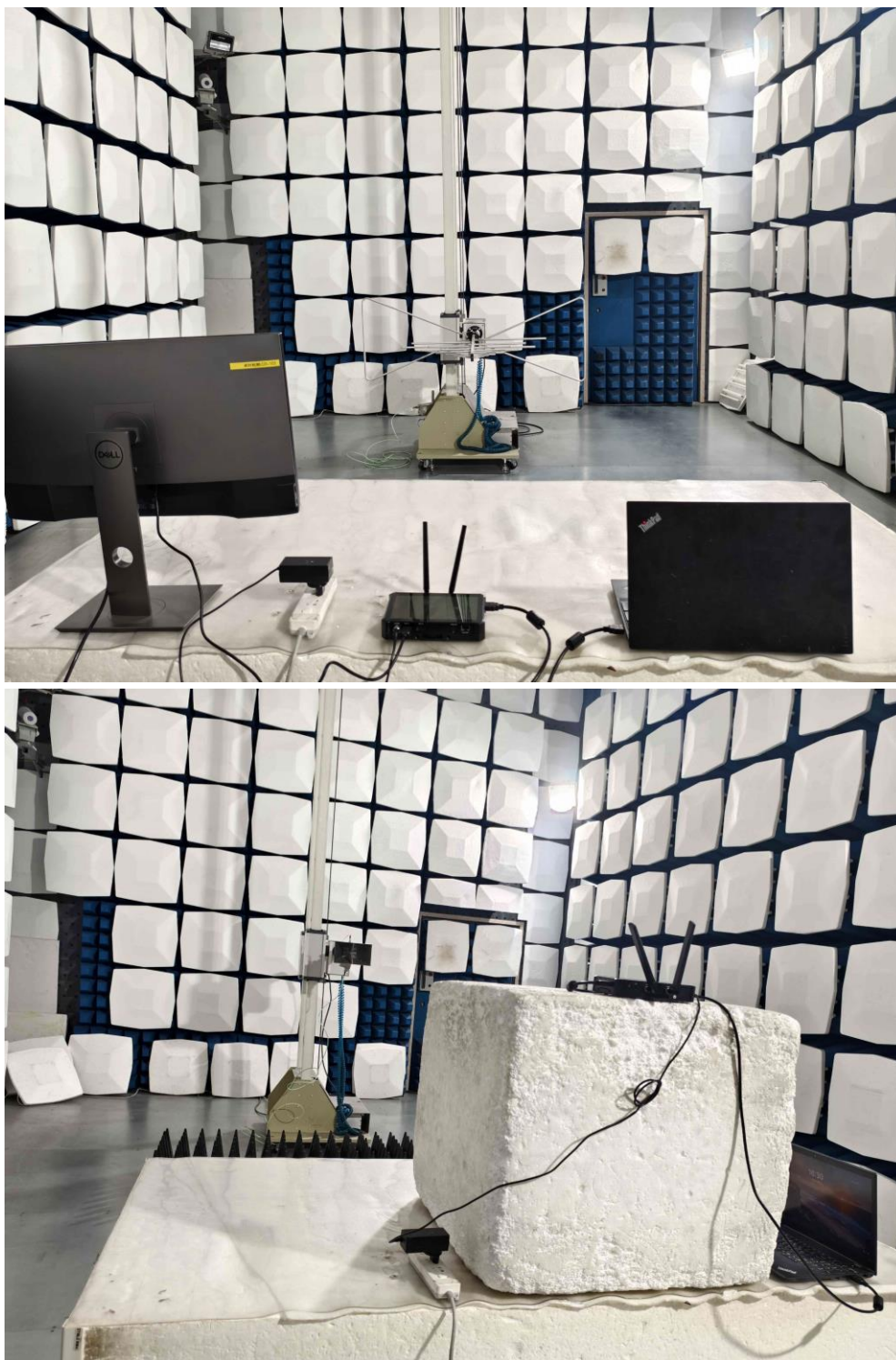
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Radiated Emission Test Setup:



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RF test view



Photographs – EUT

Please refer test report TWN2601525-01E

End of the report

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