

TECHNICAL REPORT



Report No.: TW2107298-01E  
File Reference No.: 2021-08-05

Applicant: Shenzhen Renqing Excellent Technology Co., Ltd.

Product: Smart Plotter

Model No.: ZC2-Lite, ZC2-Pro, ZC2-MINI, ZC2-EU, ZC2-AF, ZC2-AS, ZC2-OA, ZC2-SA, ZC2-NA

Trademark: ROCK, rock space

Test Standards: FCC Part 15.247

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

A handwritten signature in black ink, appearing to read 'Jack Chung', positioned above a horizontal line.

Jack Chung

Manager

Dated: August 05, 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  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: Shenzhen Renqing Excellent Technology Co., Ltd.  
Address: 104, No.15, Longfu Industrial Zone, Huarong Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, China  
Telephone: 0755-83038515  
Fax: --

### 1.3 Description of EUT

Product: Smart Plotter  
Manufacturer: Shenzhen Renqing Excellent Technology Co., Ltd.  
Address: 104, No.15, Longfu Industrial Zone, Huarong Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, China  
Brand Name: ROCK, rock space  
Model Number: ZC2-Lite  
Additional Model Number: ZC2-Pro, ZC2-MINI, ZC2-EU, ZC2-AF, ZC2-AS, ZC2-OA, ZC2-SA, ZC2-NA  
Hardware Version: V9.0810  
Software Version: V21.0710  
Type of Modulation IEEE 802.11b: DSSS (CCK, QPSK, DBPSK)  
IEEE 802.11g/n (HT20, HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)  
Frequency range IEEE 802.11b/g/n (HT20): 2412-2462MHz; 802.11n HT40: 2422-2452MHz  
Channel Spacing 5MHz for IEEE 802.11b/g/n HT20, HT40  
Air Data Rate IEEE 802.11b: 11, 5.5, 2, 1 Mbps  
IEEE 802.11g: 54, 48,36, 24, 18, 12, 9, 6 Mbps  
IEEE 802.11n HT20/HT40: mcs0-mcs7  
Frequency Selection By software

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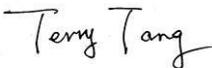


Channel Number      IEEE 802.11b/g/n (HT20): 11 Channels; IEEE 802.11n (HT40): 7 Channels;  
Antenna:              PCB antenna used. The gain of the antennas is 2.5dBi (get from the antenna  
                                 specification provided the applicant)  
Input Voltage:        DC24V, 2.75A  
Power Supply:        Model: GM60-240275-F; Input: 100-240V, 50/60Hz, 2.0A;  
                                 Output: DC24V, 2.75A, 66W

1.4 Submitted Sample: 4 Samples

1.5 Test Duration  
2021-07-20 to 2021-08-04

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: Terry Tang

Note: The product Smart Plotter, with FCC ID: 2AUA9-RQZY011 is identical with the certified product Screen Protector Film Cutter with FCC ID: 2AVGR-MINI8MINI9, and only the applicant, product name and model names are different for the marketing requirement. So All test data of FCC ID: 2AUA9-RQZY011 test report are from FCC ID 2AVGR-MINI8MINI9 test reports.

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<b>2.0 Test Equipment</b>					
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
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
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	2018-07-04	2021-07-03
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	2020-01-16	2021-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2021-06-18	2022-06-17
RF Cable	Zhengdi	7m	--	2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

## 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

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EMI Test Software BL410-EV18.806 High Frequency	V18.06
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### 3. DESCRIPTION OF TEST MODES

#### IEEE 802.11b, 802.11g, 802.11n (HT20) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode: 1Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 6Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20) mode: mcs0 (worst case) were chosen for full testing

#### IEEE 802.11n (HT40) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2422
Middle	2437
High	2452

IEEE 802.11n (HT40) mode: msc0 data rate (worst case) were chosen for full testing

Note: during the test, the duty cycle was set up to 100%.

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### 3.0 Technical Details

#### 3.1 Summary of test results

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
<b>FCC Part 15, Paragraph 15.207</b>	<b>Conducted Emission Test</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit</b>	<b>Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth&gt;500kHz</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(b)</b>	<b>Maximum peak output power Limit: max. 30dBm</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.205 &amp; 15.209</b>	<b>Transmitter Radiated Emission Limit: Table 15.209</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(e)</b>	<b>Power Spectral Density Limit: max. 8dBm</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(d)</b>	<b>Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209</b>	<b>PASS</b>	<b>Complies</b>

#### 3.2 Test Standards

##### **FCC Part 15 Subpart & Subpart C, Paragraph 15.247**

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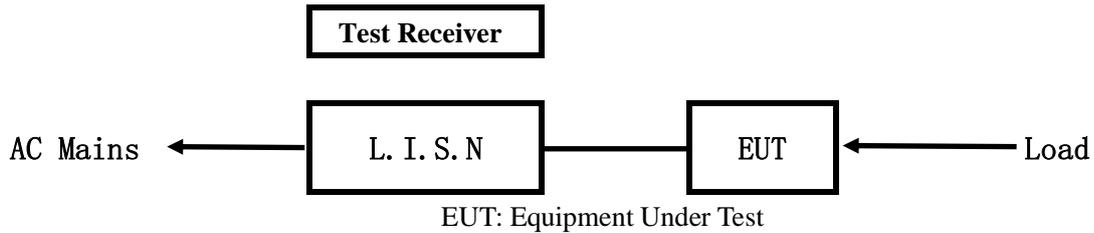


**4.0 EUT Modification**

**No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.**

**5.0 Power Line Conducted Emission Test**

5.1 Schematics of the test

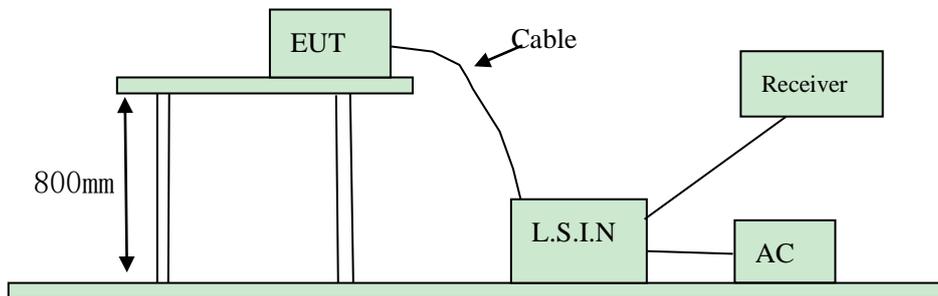


5.2 Test Method and test Procedure

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

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

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

A. EUT

Device	Manufacturer	Model	FCC ID
Smart Plotter	Shenzhen Renqing Excellent Technology Co., Ltd.	ZC2-Lite, ZC2-Pro, ZC2-MINI, ZC2-EU, ZC2-AF, ZC2-AS, ZC2-OA, ZC2-SA, ZC2-NA	2AUA9-RQZY011

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	Rating
--			

5.4 EUT Operating Condition

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

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5 00	56.0	46.0
5.00 ~ 30 00	60.0	50.

- 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.



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

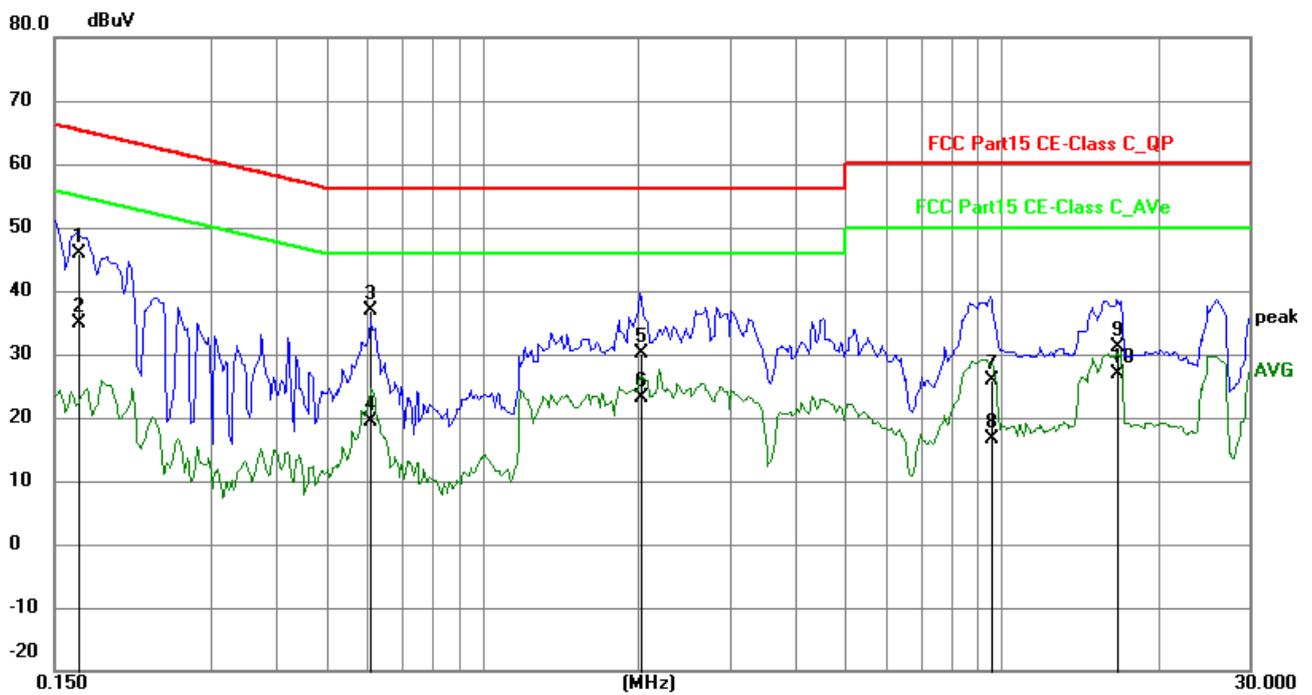
**EUT Operating Environment**

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

**EUT set Condition: Keep WIFI Transmitting**

**Results: Pass**

Please refer to following diagram for individual



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1659	35.99	9.77	45.76	65.16	-19.40	QP	P
2	0.1659	25.04	9.77	34.81	55.16	-20.35	AVG	P
3	0.6102	27.14	9.78	36.92	56.00	-19.08	QP	P
4	0.6102	9.63	9.78	19.41	46.00	-26.59	AVG	P
5	2.0181	20.43	9.80	30.23	56.00	-25.77	QP	P
6	2.0181	13.38	9.80	23.18	46.00	-22.82	AVG	P
7	9.5403	15.81	10.14	25.95	60.00	-34.05	QP	P
8	9.5403	6.61	10.14	16.75	50.00	-33.25	AVG	P
9	16.7007	20.76	10.48	31.24	60.00	-28.76	QP	P
10	16.7007	16.29	10.48	26.77	50.00	-23.23	AVG	P

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

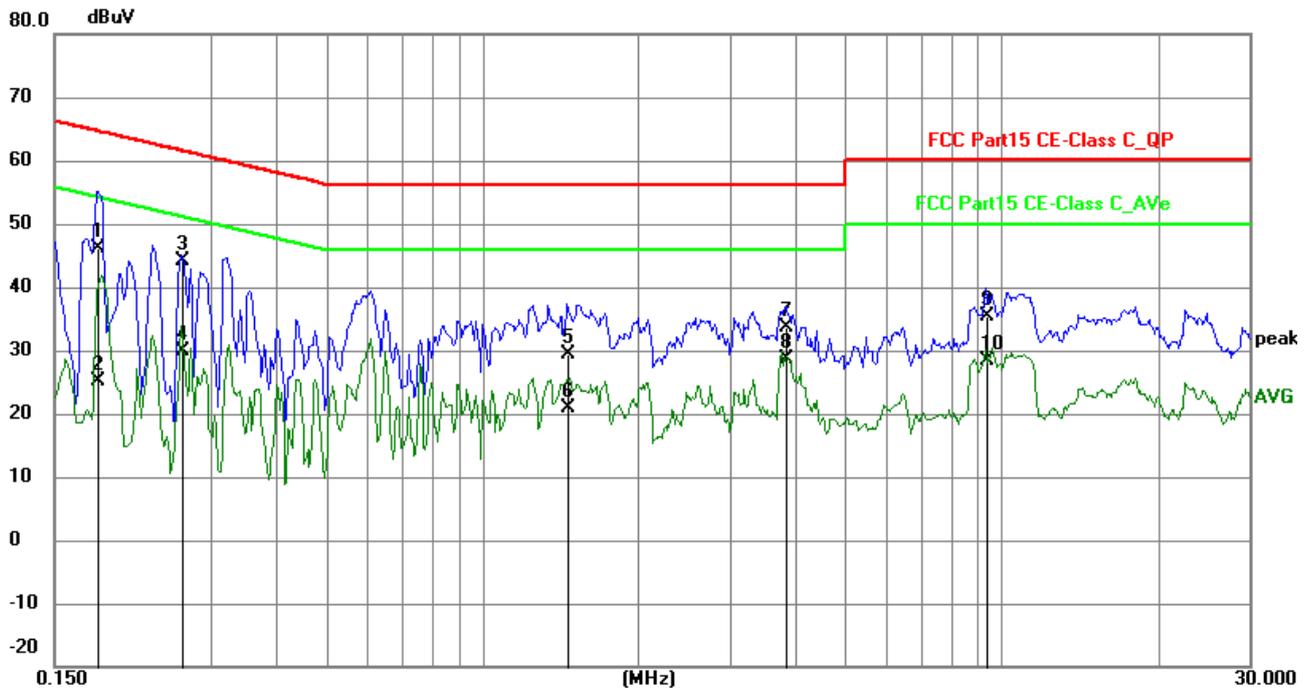
**EUT Operating Environment**

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

**EUT set Condition: Keep WIFI Transmitting**

**Results: Pass**

Please refer to following diagram for individual



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1812	36.30	9.76	46.06	64.43	-18.37	QP	P
2	0.1812	15.27	9.76	25.03	54.43	-29.40	AVG	P
3	0.2631	34.26	9.75	44.01	61.33	-17.32	QP	P
4	0.2631	20.14	9.75	29.89	51.33	-21.44	AVG	P
5	1.4565	19.62	9.79	29.41	56.00	-26.59	QP	P
6	1.4565	11.21	9.79	21.00	46.00	-25.00	AVG	P
7	3.8399	23.67	9.88	33.55	56.00	-22.45	QP	P
8	3.8399	18.67	9.88	28.55	46.00	-17.45	AVG	P
9	9.3414	25.37	10.13	35.50	60.00	-24.50	QP	P
10	9.3414	18.26	10.13	28.39	50.00	-21.61	AVG	P

## 6 Radiated Emission Test

### 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 25 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. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

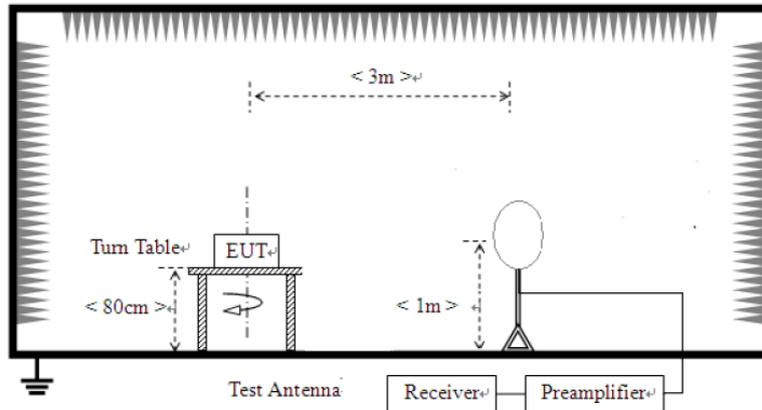
### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

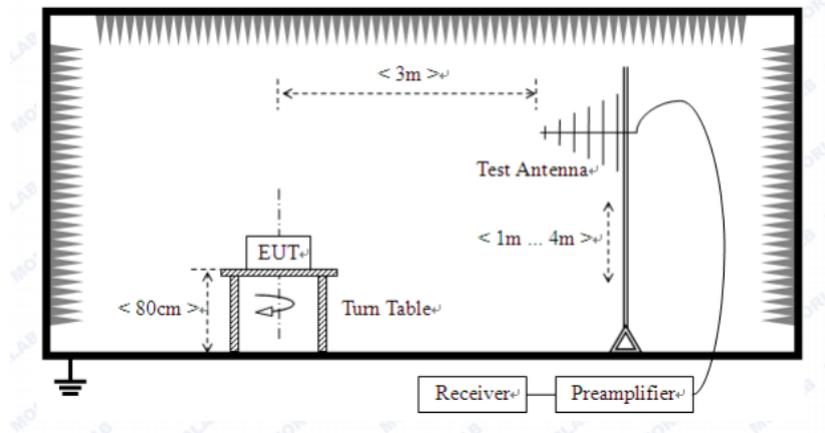
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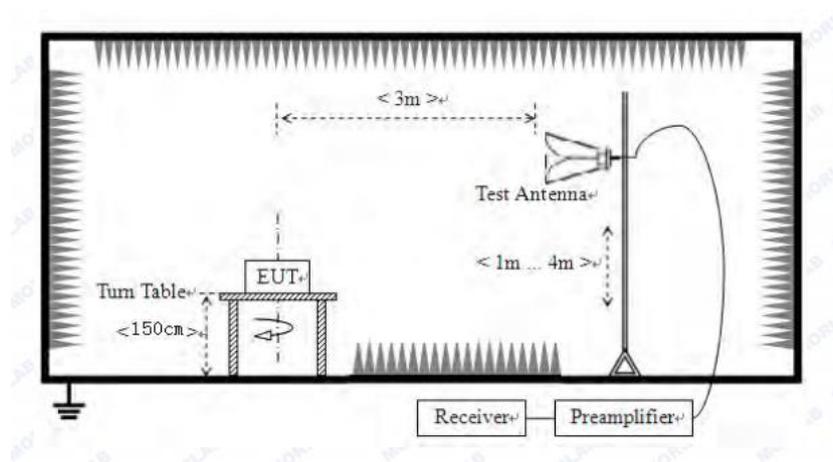


For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

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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:

**Frequencies in restricted band are complied to limit on Paragraph 15.209**

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

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage ( $\mu$ 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. Worse case were recorded in the test report. 802.11b 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:       **Keep Transmitting**

**Results:**               **Pass**

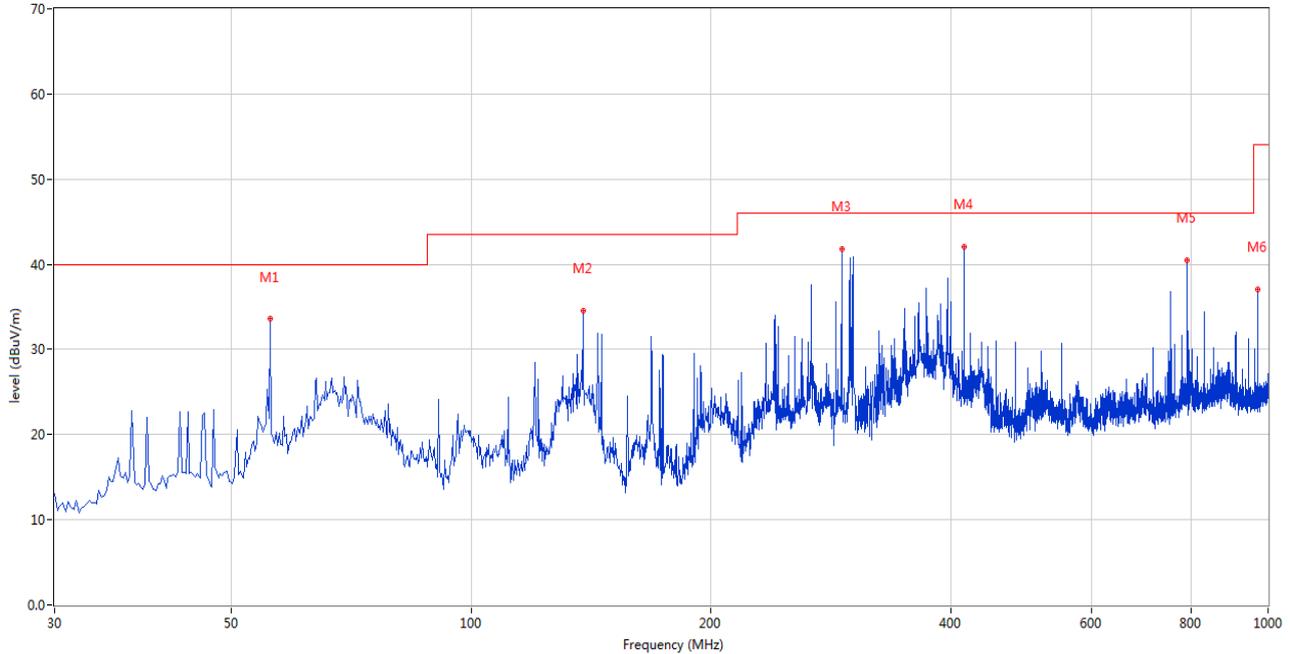
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FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	55.941	33.55	-12.00	40.0	-6.45	Peak	357.00	100	Horizontal	Pass
2	138.128	34.54	-17.29	43.5	-8.96	Peak	300.00	100	Horizontal	Pass
3	291.835	41.77	-11.25	46.0	-4.23	Peak	302.00	100	Horizontal	Pass
4	415.236	42.00	-8.27	46.0	-4.00	Peak	359.00	100	Horizontal	Pass
5	791.987	40.52	-3.10	46.0	-5.48	Peak	307.00	100	Horizontal	Pass
6	970.907	36.99	-1.52	54.0	-17.01	Peak	300.00	100	Horizontal	Pass

**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Vertical (30MHz----1000MHz)**

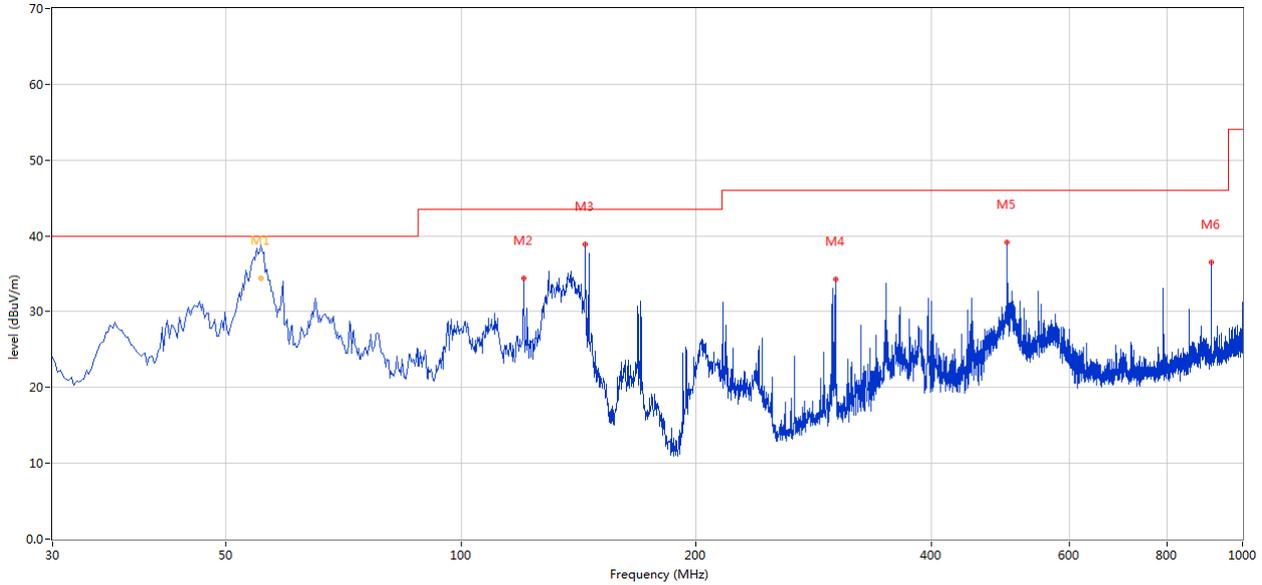
EUT set Condition: **Keep Transmitting**

**Results: Pass**

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FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	55.456	38.71	-11.89	40.0	-1.29	Peak	68.00	100	Vertical	Pass
1*	55.456	34.45	-11.89	40.0	-5.55	QP	68.00	100	Vertical	Pass
2	120.187	34.41	-15.39	43.5	-9.09	Peak	5.00	100	Vertical	Pass
3	144.189	38.91	-17.09	43.5	-4.59	Peak	5.00	100	Vertical	Pass
4	301.290	34.23	-11.00	46.0	-11.77	Peak	90.00	100	Vertical	Pass
5	500.090	39.21	-6.91	46.0	-6.79	Peak	11.00	100	Vertical	Pass
6	911.995	36.46	-1.80	46.0	-9.54	Peak	72.00	100	Vertical	Pass

Please refer to the following test plots for details:

**CH01 for 11b at 1Mbps: Horizontal**

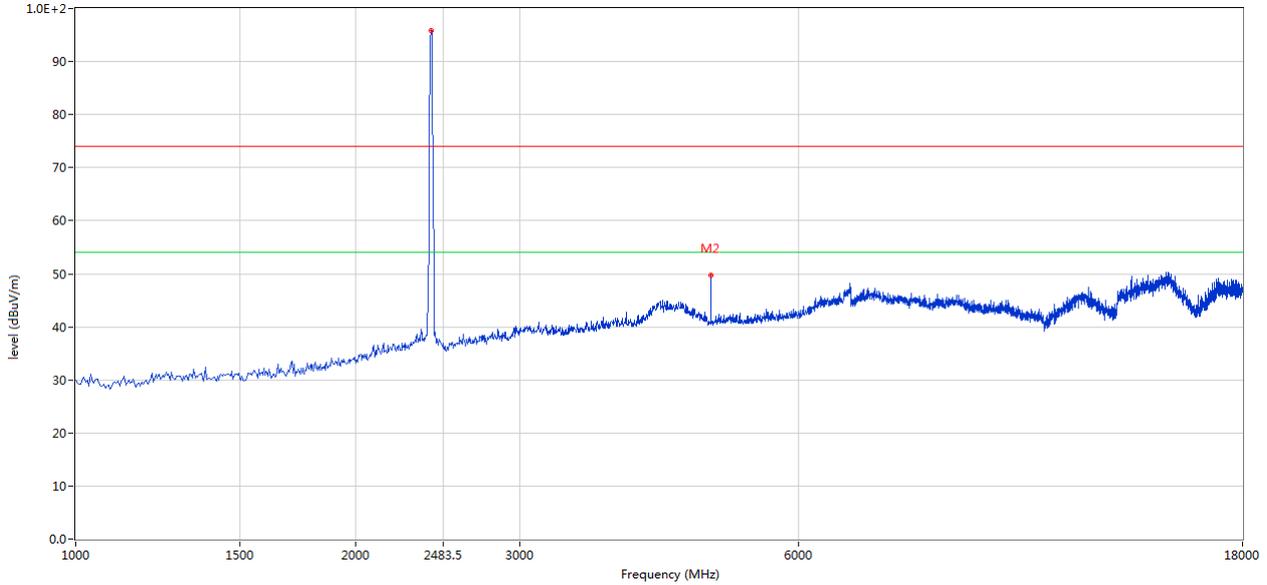
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FCC Part 15C Class B 1GHz-18GHz -2



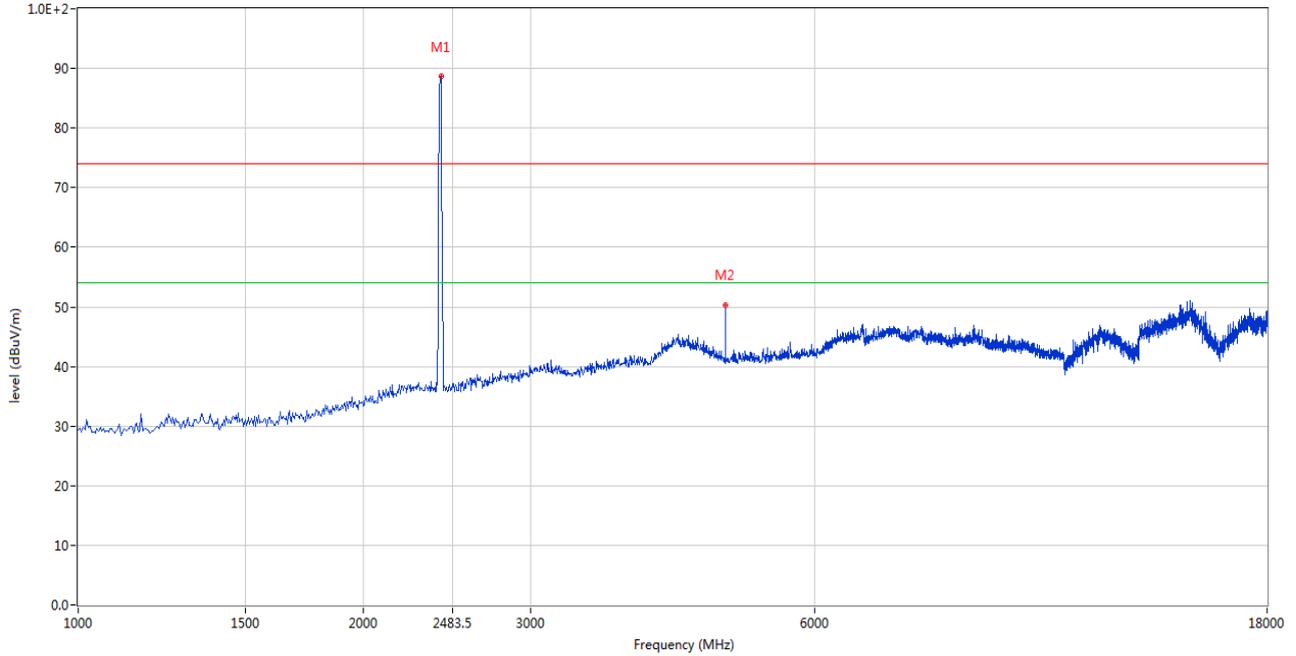
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4824.044	49.78	3.14	74.0	-24.22	Peak	308.00	100	Horizontal	Pass

**CH01 for 11b at 1Mbps: Vertical**

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4824.044	50.25	3.14	74.0	-23.75	Peak	323.00	100	Vertical	Pass

### CH06 for 11b at 1Mbps: Vertical

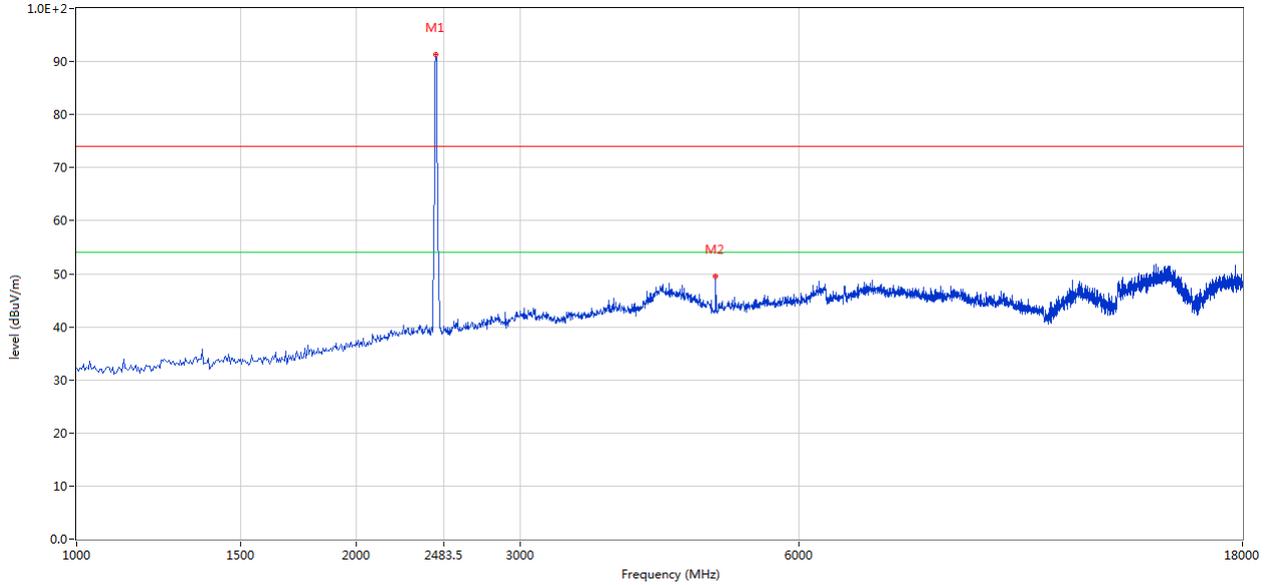
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FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4875.031	49.56	3.19	74.0	-24.44	Peak	351.00	100	Vertical	Pass

**CH06 for 11b at 1Mbps: Horizontal**

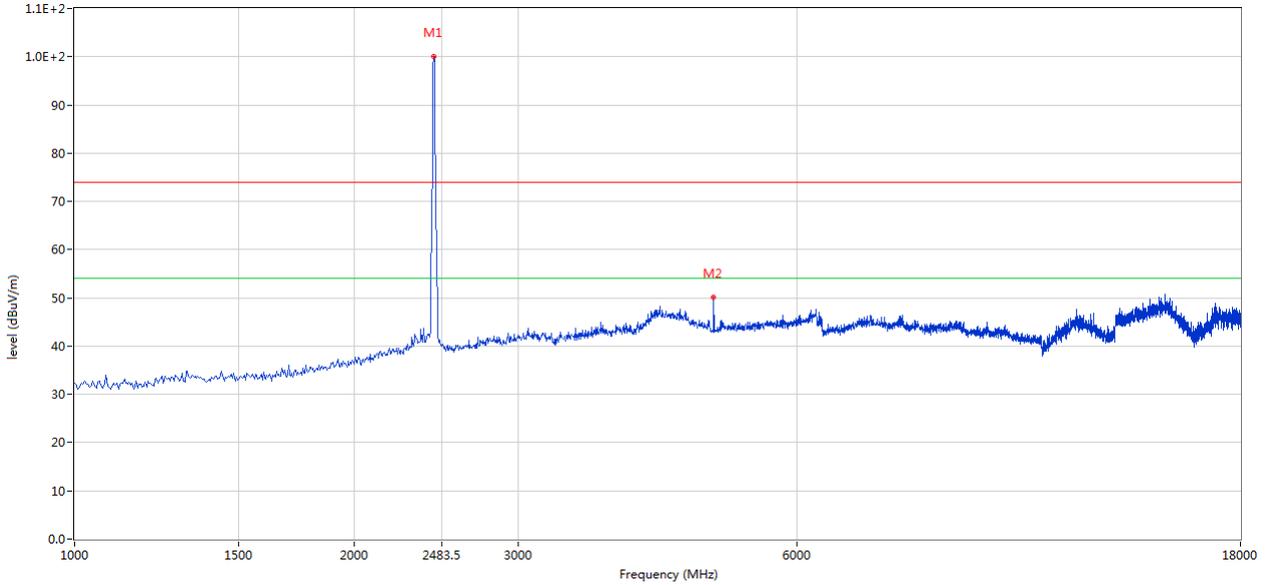
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FCC Part 15C Class B 1GHz-18GHz -2



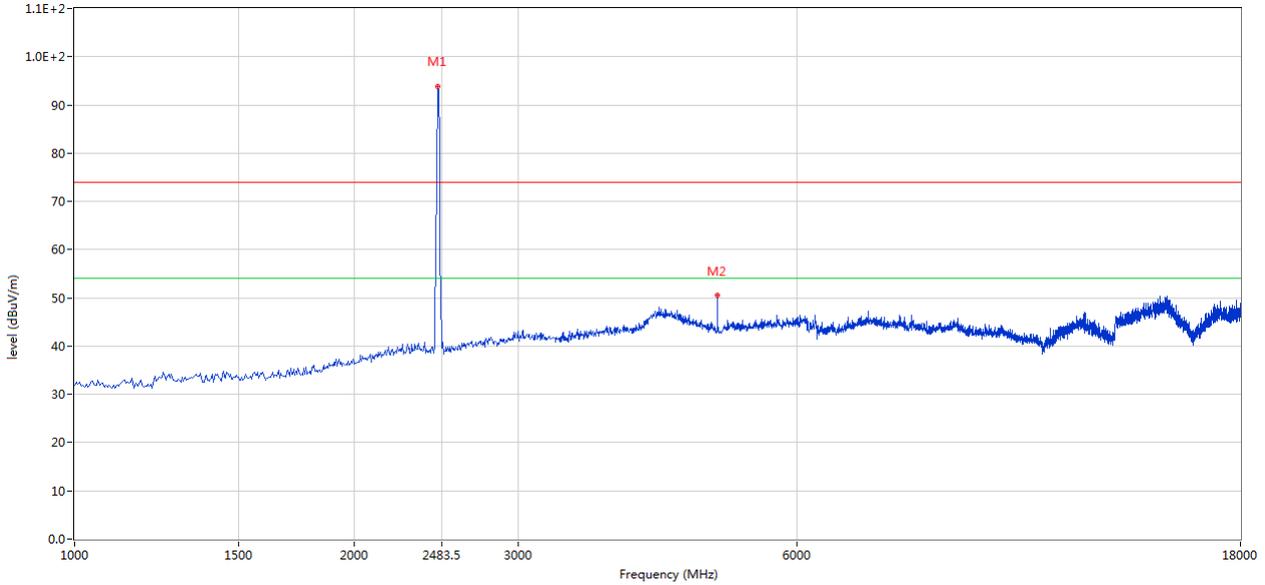
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4875.031	50.12	3.19	74.0	-23.88	Peak	291.00	100	Horizontal	Pass

**CH11 for 11b at 1Mbps: Vertical**

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



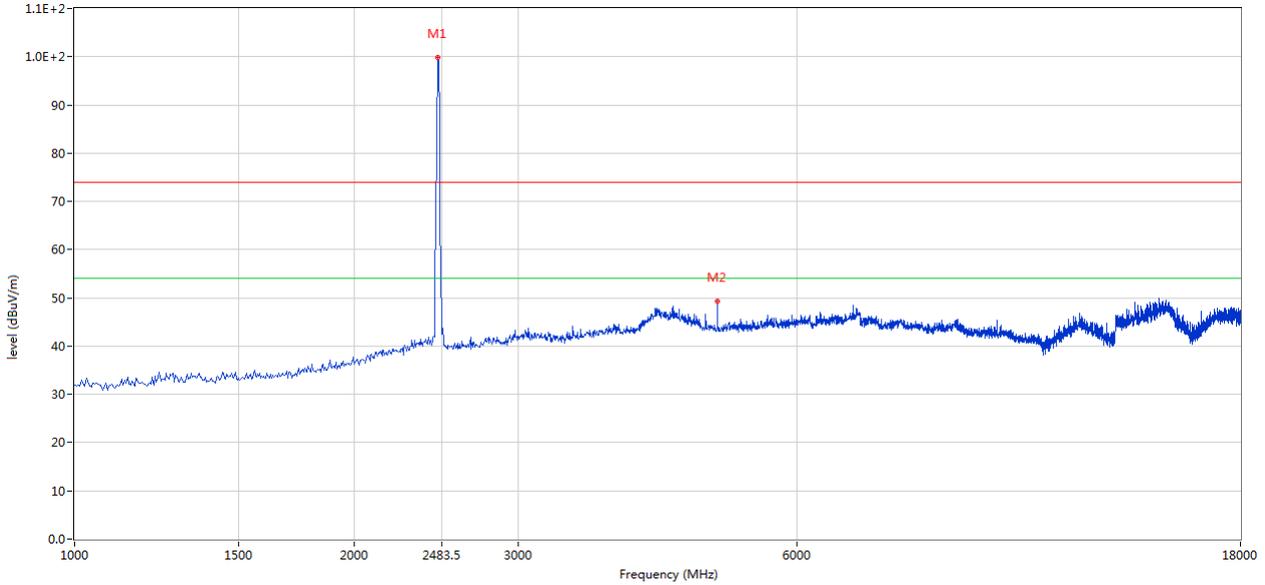
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4921.770	50.61	3.27	74.0	-23.39	Peak	353.00	100	Vertical	Pass

**CH11 for 11g at 6Mbps: Horizontal**

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4921.770	49.85	3.27	74.0	-24.15	Peak	293.00	100	Horizontal	Pass

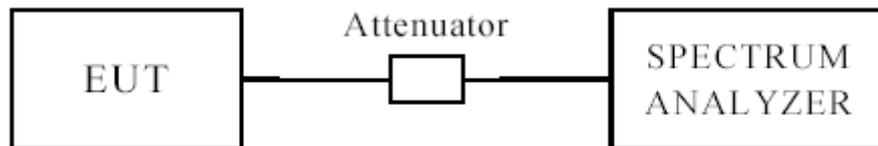
- Note: 1. Result Level = Reading + Factor  
 2. Factor= AF + Cable Loss- Preamp  
 3. Margin = Result– Limit  
 4. For radiated Emissions from 18-25GHz, it is only the floor noise.  
 5. The peak value less than the AV limit, no necessary to take down the AV measurement result.

## 7.0 6dB Bandwidth Measurement

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## 7.1 Test Setup



## 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

## 7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (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) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

## 7.4 Test Result

### 6dB Occupied Bandwidth

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EUT		Smart Plotter		Model	ZC2-Lite
Mode		802.11b		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	1	10.04	0.5	Pass
6	2437	1	10.04	0.5	Pass
11	2462	1	10.04	0.5	Pass
1	2412	11	9.92	0.5	Pass
6	2437	11	9.86	0.5	Pass
11	2462	11	10.64	0.5	Pass

### 1. 802.11b at 1Mbps of CH01

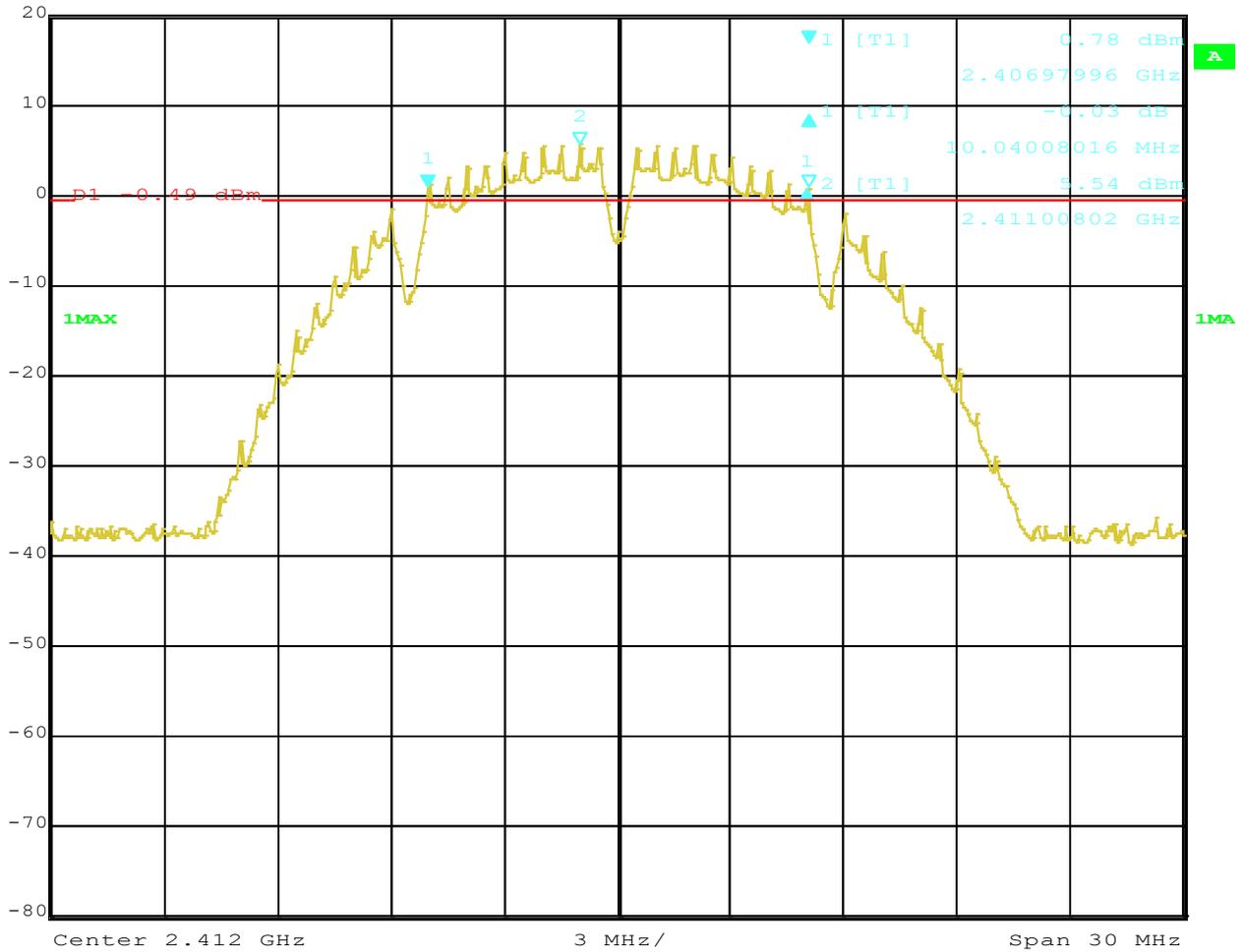
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	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
Ref Lvl	-0.03 dB	VBW	300 kHz		
20 dBm	10.04008016 MHz	SWT	7.5 ms	Unit	dBm



Date: 27.JUL.2021 17:04:34

## 2. 802.11b at 1Mbps of CH06

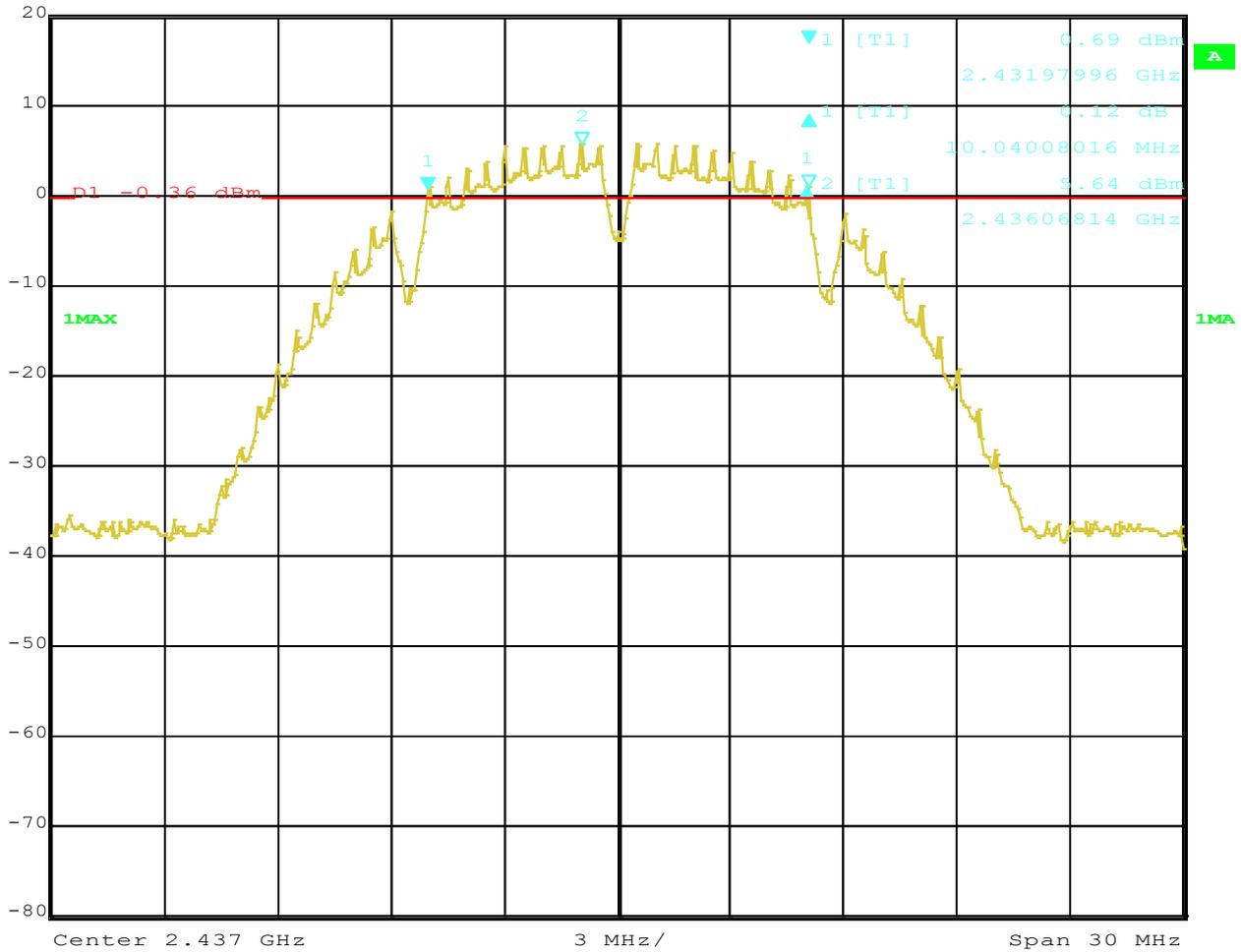
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	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
Ref Lvl	0.12 dB	VBW	300 kHz		
20 dBm	10.04008016 MHz	SWT	7.5 ms	Unit	dBm



Date: 27.JUL.2021 17:15:49

### 3. 802.11b at 1Mbps of CH11

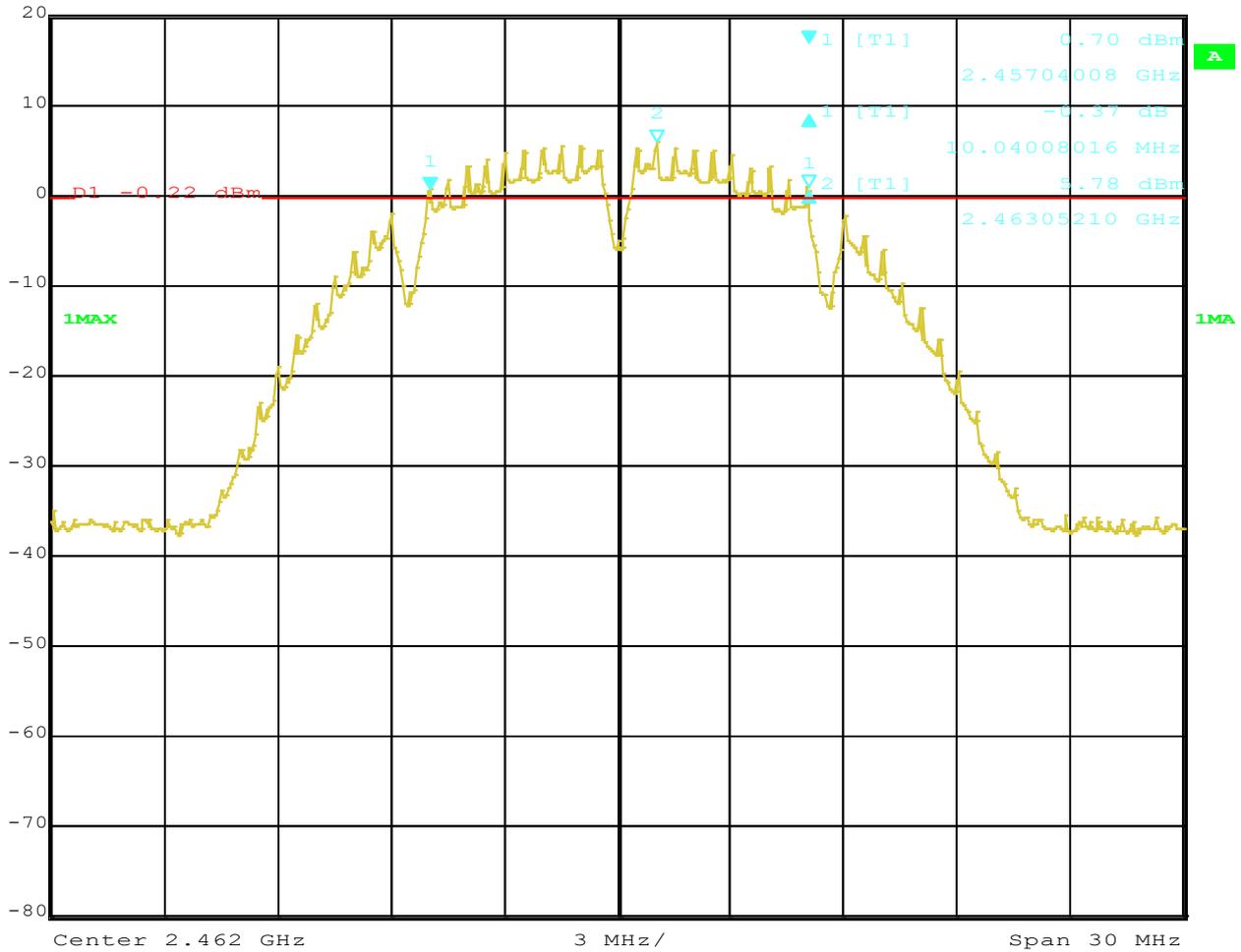
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	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
Ref Lvl	-0.37 dB	VBW	300 kHz		
20 dBm	10.04008016 MHz	SWT	7.5 ms	Unit	dBm



Date: 27. JUL. 2021 17:24:34

#### 4. 802.11b at 11Mbps of CH01

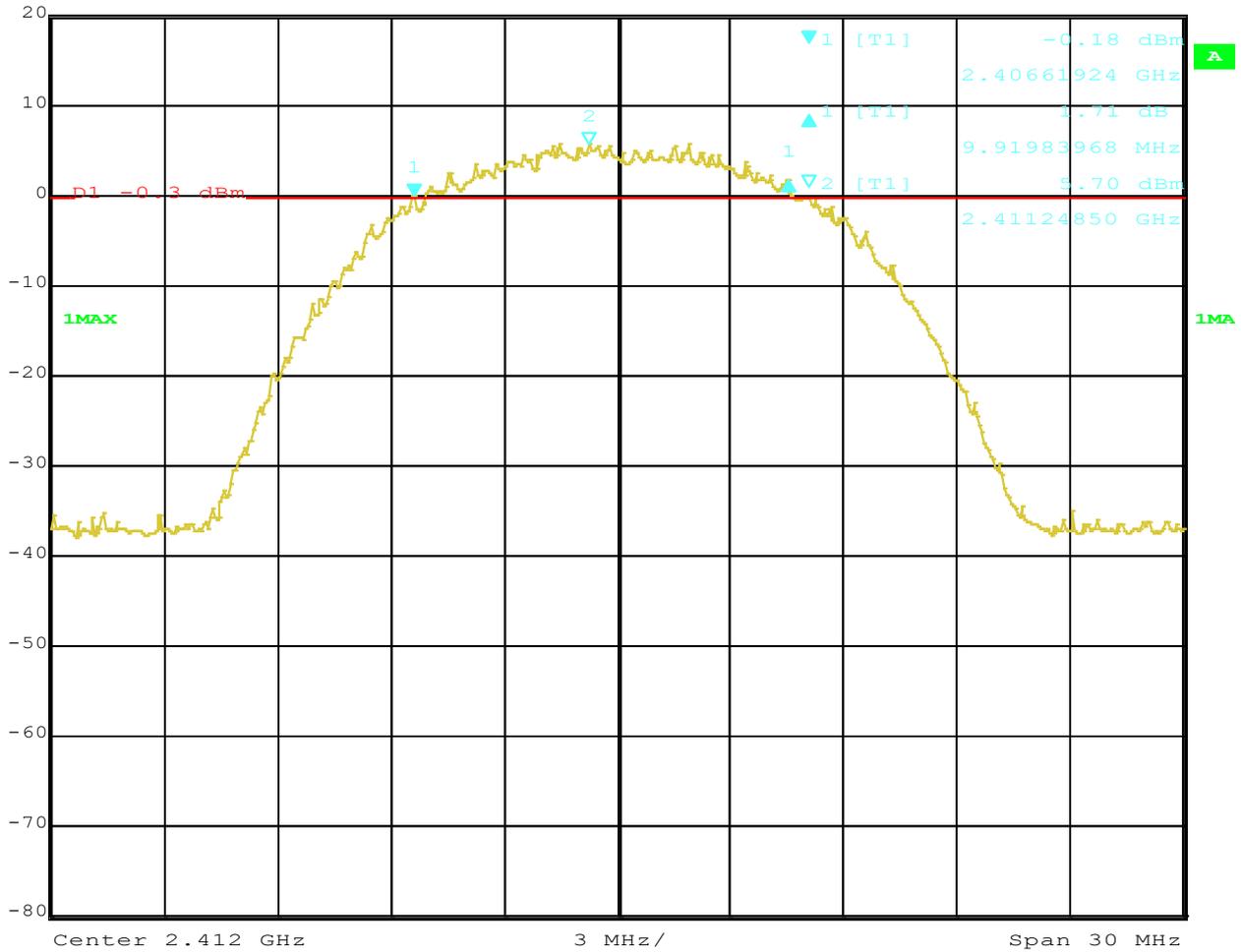
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	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
Ref Lvl	1.71 dB	VBW	300 kHz		
20 dBm	9.91983968 MHz	SWT	7.5 ms	Unit	dBm



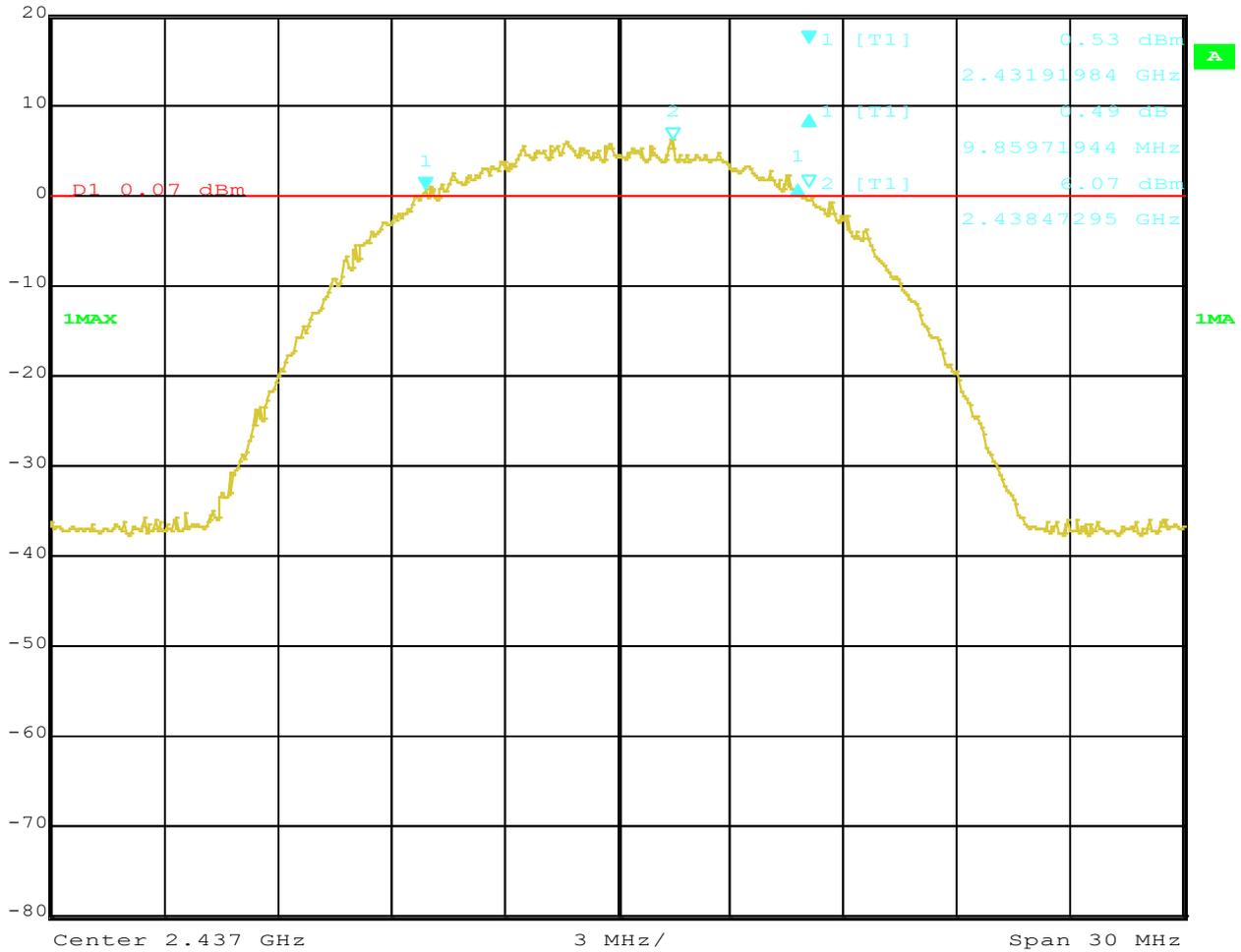
Date: 27.JUL.2021 17:07:37

### 5. 802.11b at 11Mbps of CH06

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	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
Ref Lvl	0.49 dB	VBW	300 kHz		
20 dBm	9.85971944 MHz	SWT	7.5 ms	Unit	dBm



Date: 27.JUL.2021 17:13:39

### 6. 802.11b at 11Mbps of CH11

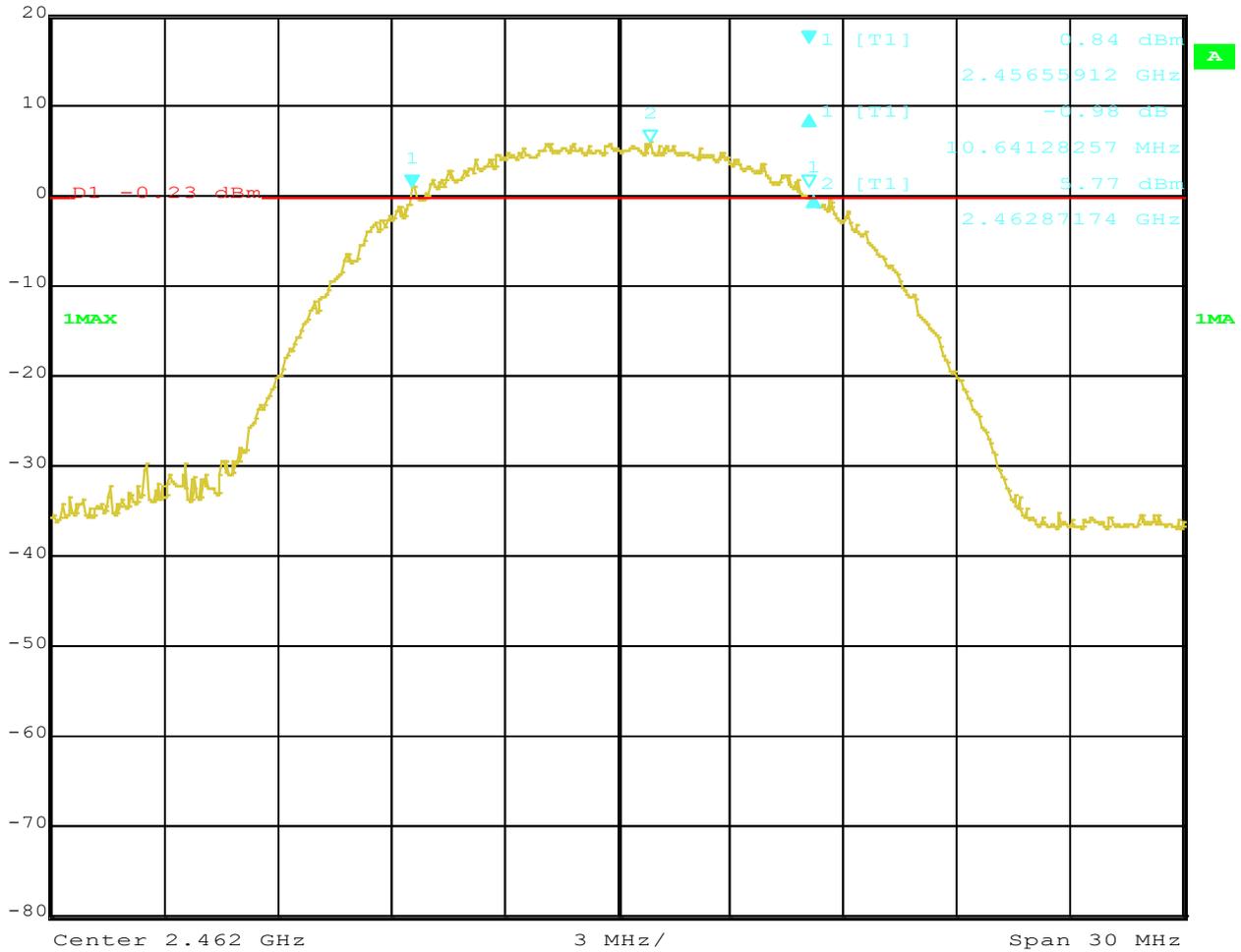
The report refers only to the sample tested and does not apply to the bulk.

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	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
Ref Lvl	-0.98 dB	VBW	300 kHz		
20 dBm	10.64128257 MHz	SWT	7.5 ms	Unit	dBm



Date: 27. JUL. 2021 17:39:20

### 6dB Occupied Bandwidth

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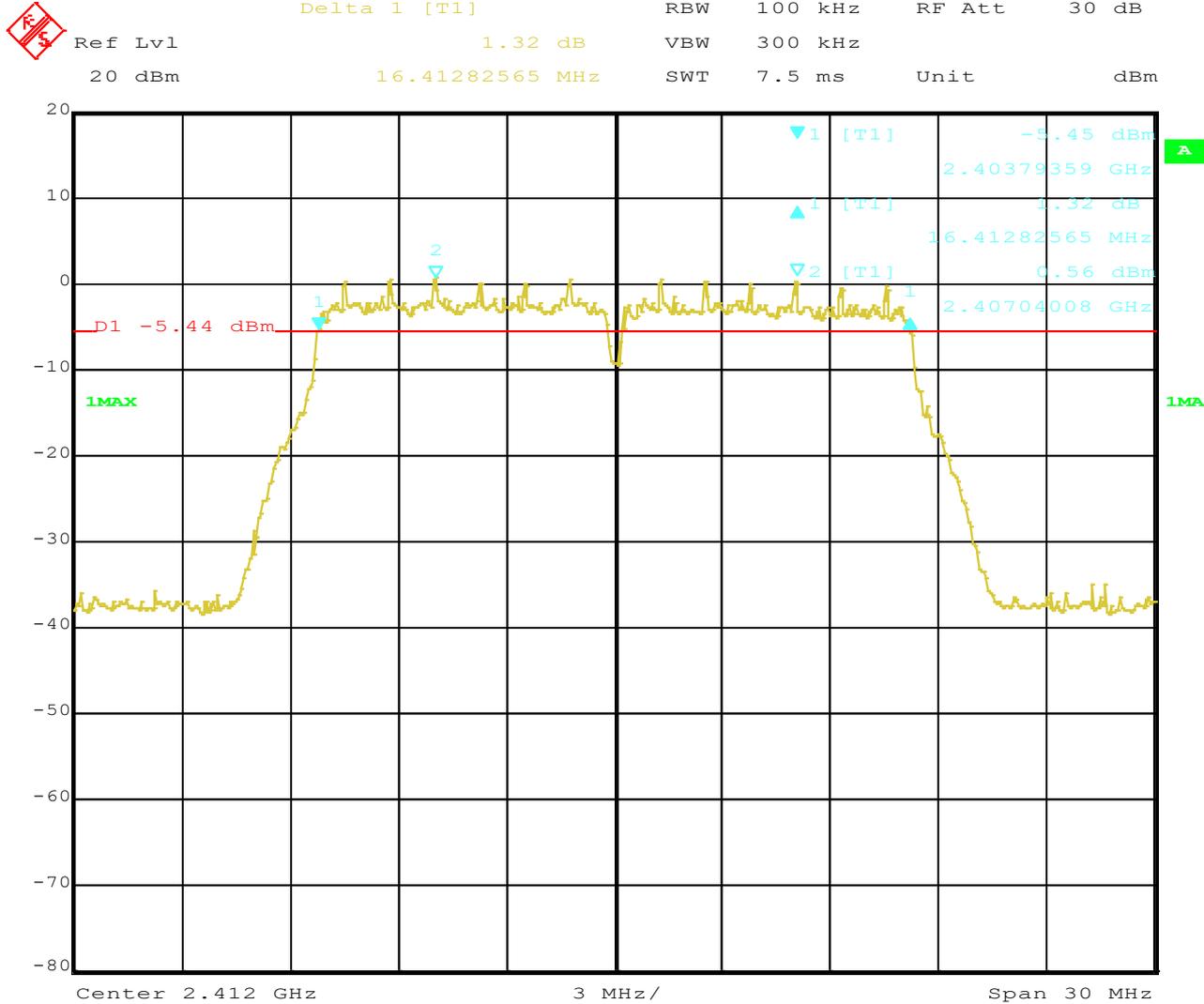
EUT		Smart Plotter		Model		ZC2-Lite	
Mode		802.11g		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail		
1	2412	6	16.41	0.5	Pass		
6	2437	6	16.41	0.5	Pass		
11	2462	6	16.41	0.5	Pass		

**Test Plots:**

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**1. 802.11g at 6Mbps of CH01**



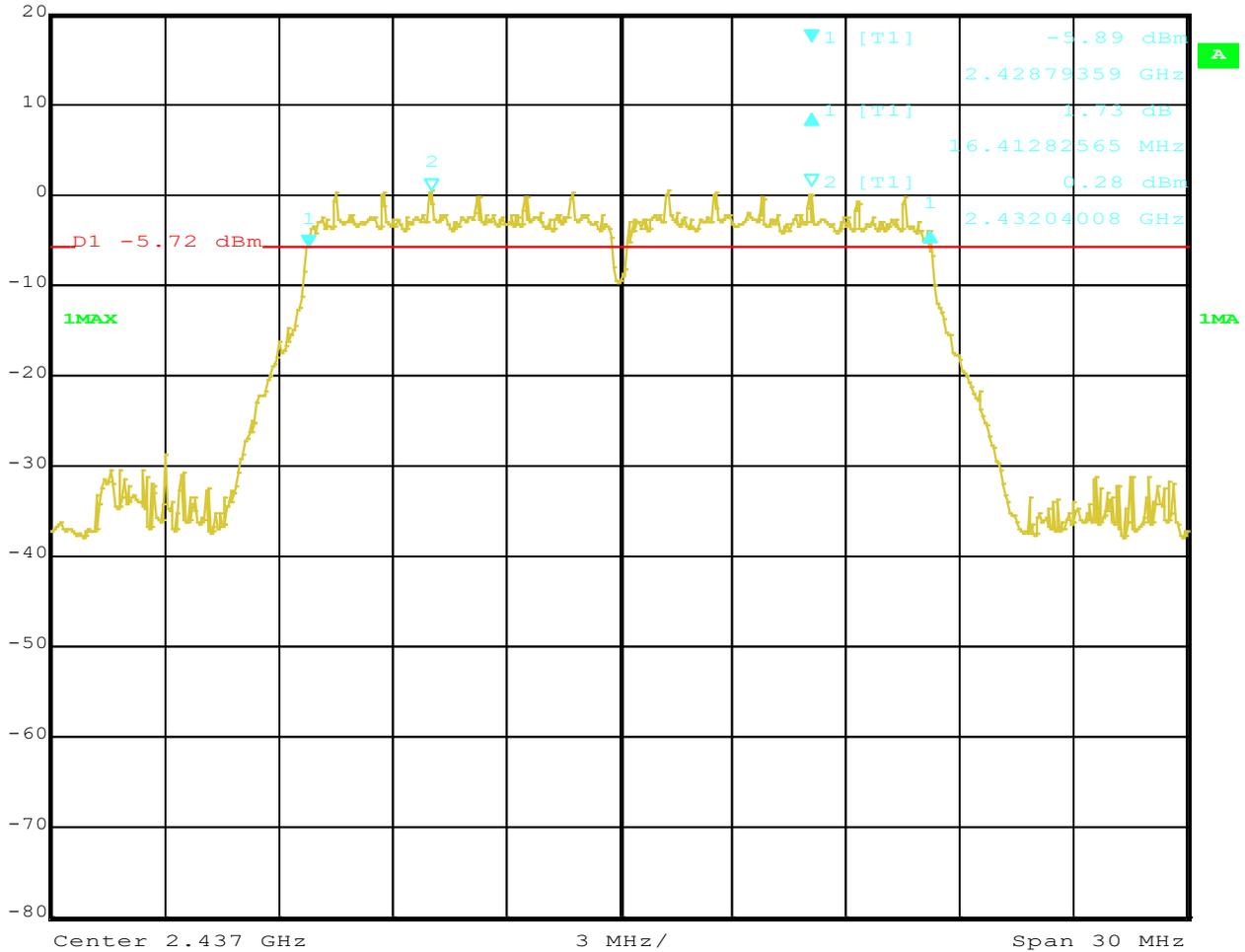
Date: 27.JUL.2021 17:09:26

**2. 802.11g at 6Mbps of CH06**

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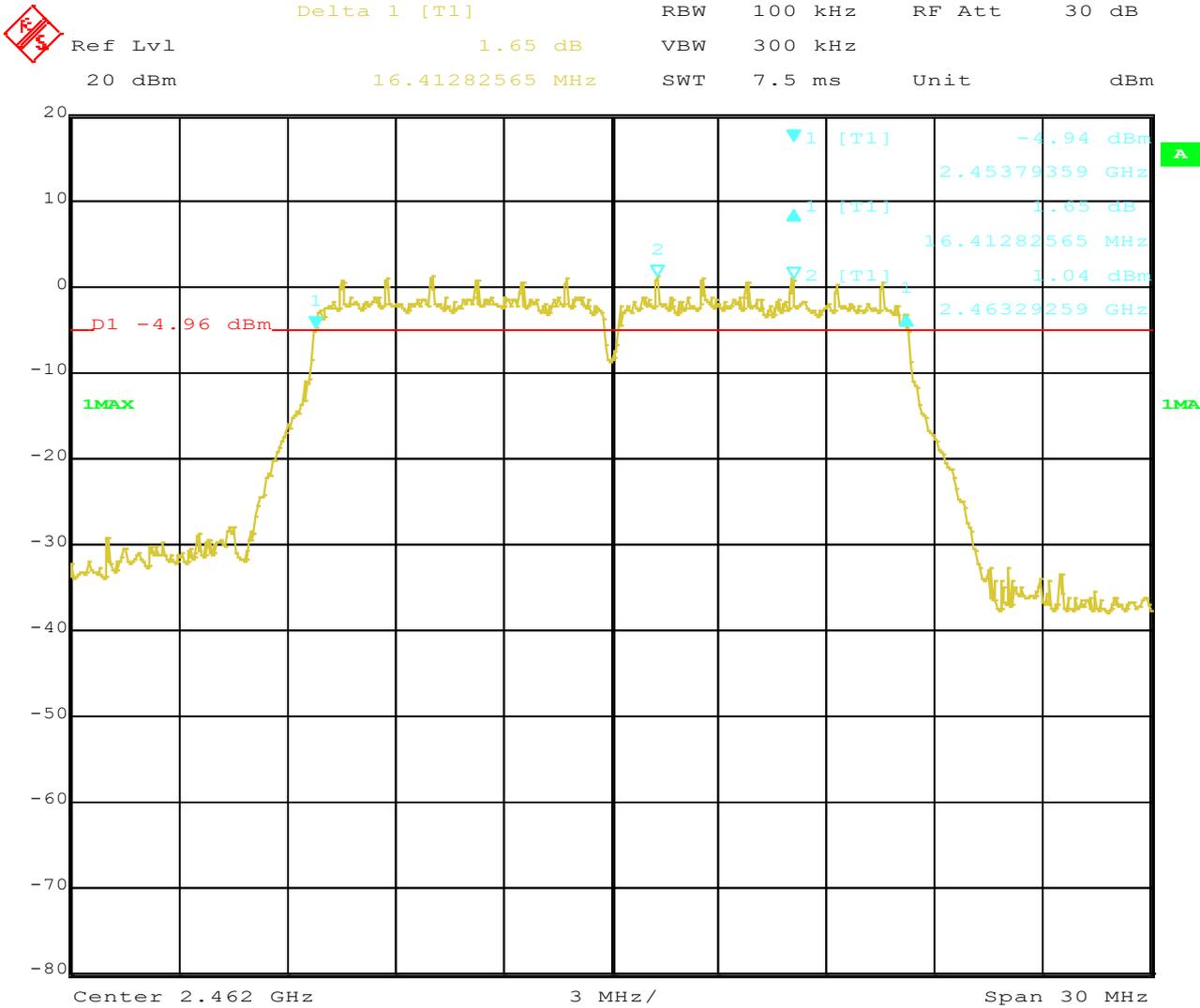
	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
Ref Lvl	1.73 dB	VBW	300 kHz		
20 dBm	16.41282565 MHz	SWT	7.5 ms	Unit	dBm



Date: 27.JUL.2021 17:11:03

### 3. 802.11g at 6Mbps of CH11

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Date: 27.JUL.2021 17:42:25

### 6dB Occupied Bandwidth

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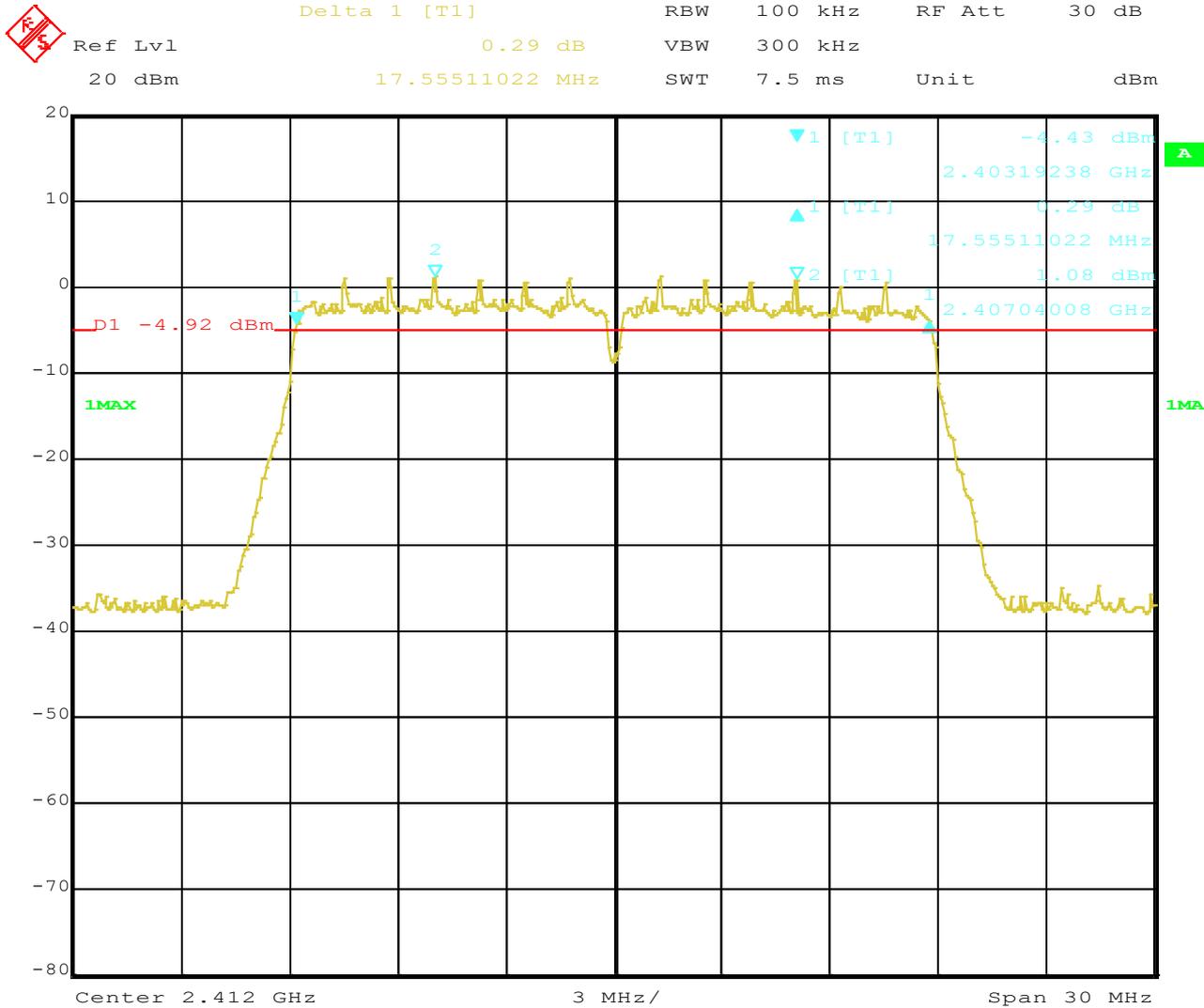
EUT		Smart Plotter		Model	ZC2-Lite
Mode		802.11n HT20		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	mcs0	17.56	0.5	Pass
6	2437	mcs0	17.56	0.5	Pass
11	2462	mcs0	17.68	0.5	Pass

**Test Plots:**

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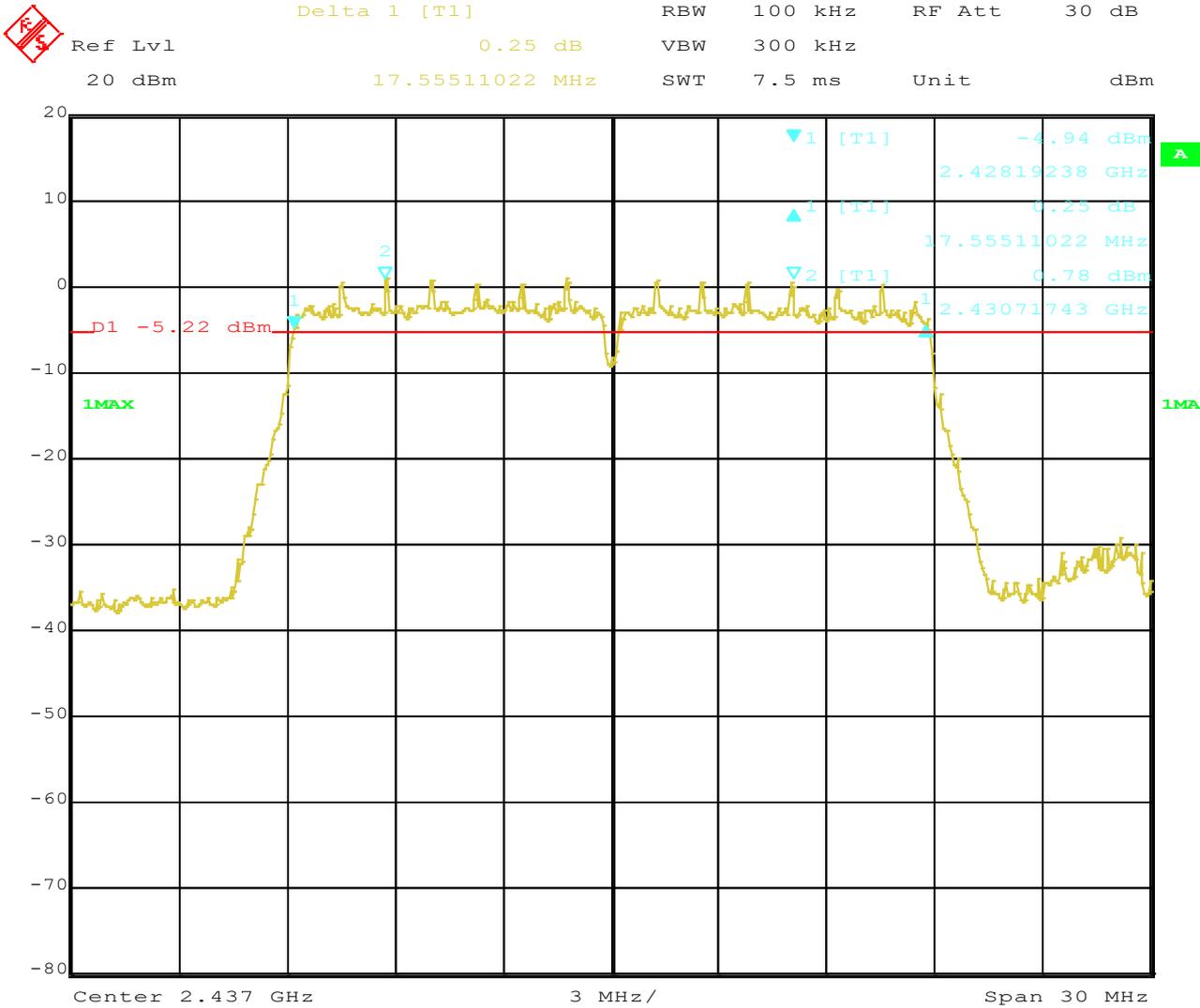
**1. 802.11n at HT20 of CH01**



Date: 27.JUL.2021 17:53:31

**2. 802.11n at HT20 of CH06**

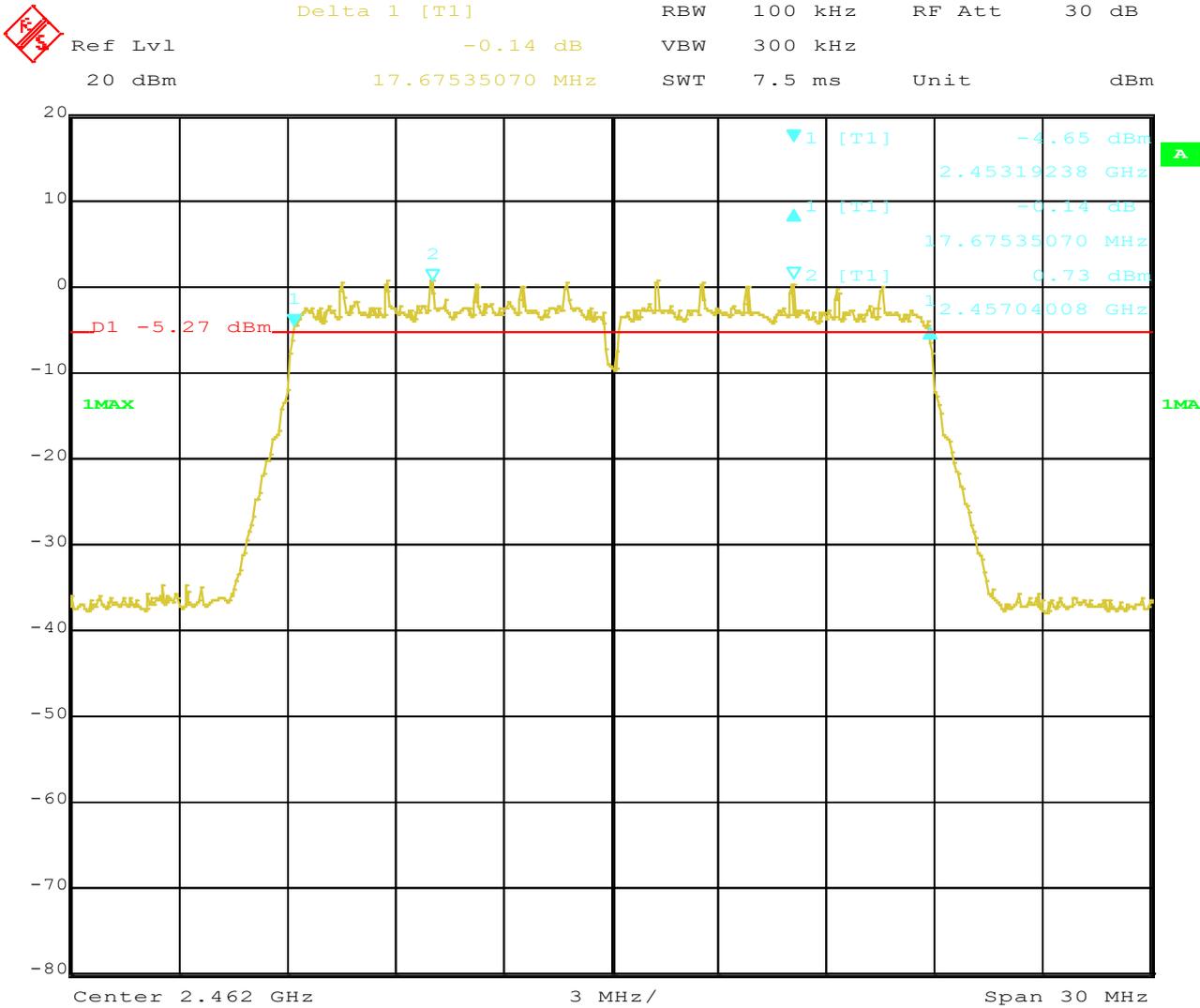
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Date: 27.JUL.2021 17:50:03

**3. 802.11n at HT20 of CH11**

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Date: 27.JUL.2021 17:45:46

### 6dB Occupied Bandwidth

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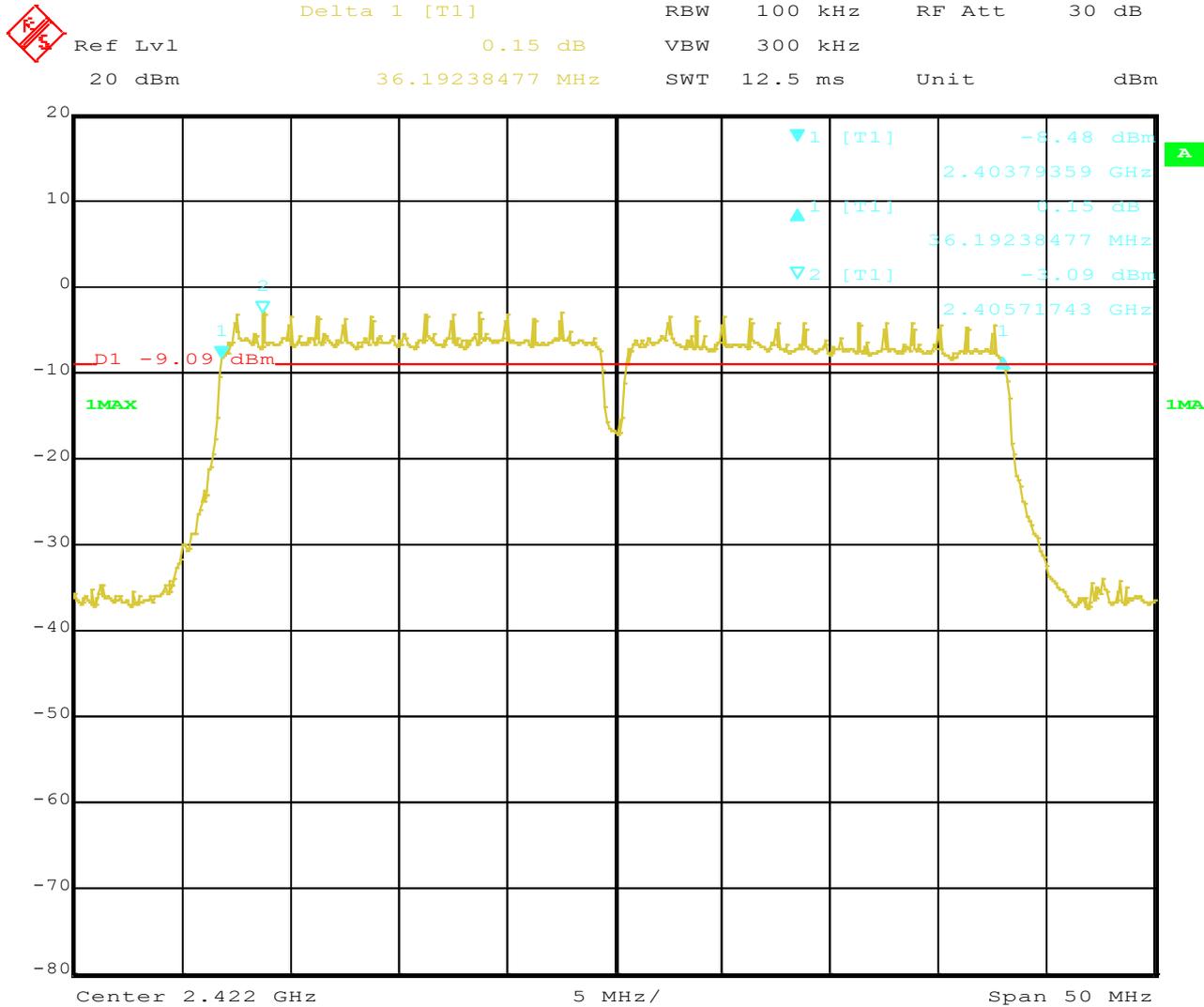
EUT		Smart Plotter		Model	ZC2-Lite
Mode		802.11n HT40		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
3	2422	mcs0	36.19	0.5	Pass
6	2437	mcs0	36.20	0.5	Pass
9	2452	mcs0	36.03	0.5	Pass

**Test Plots:**

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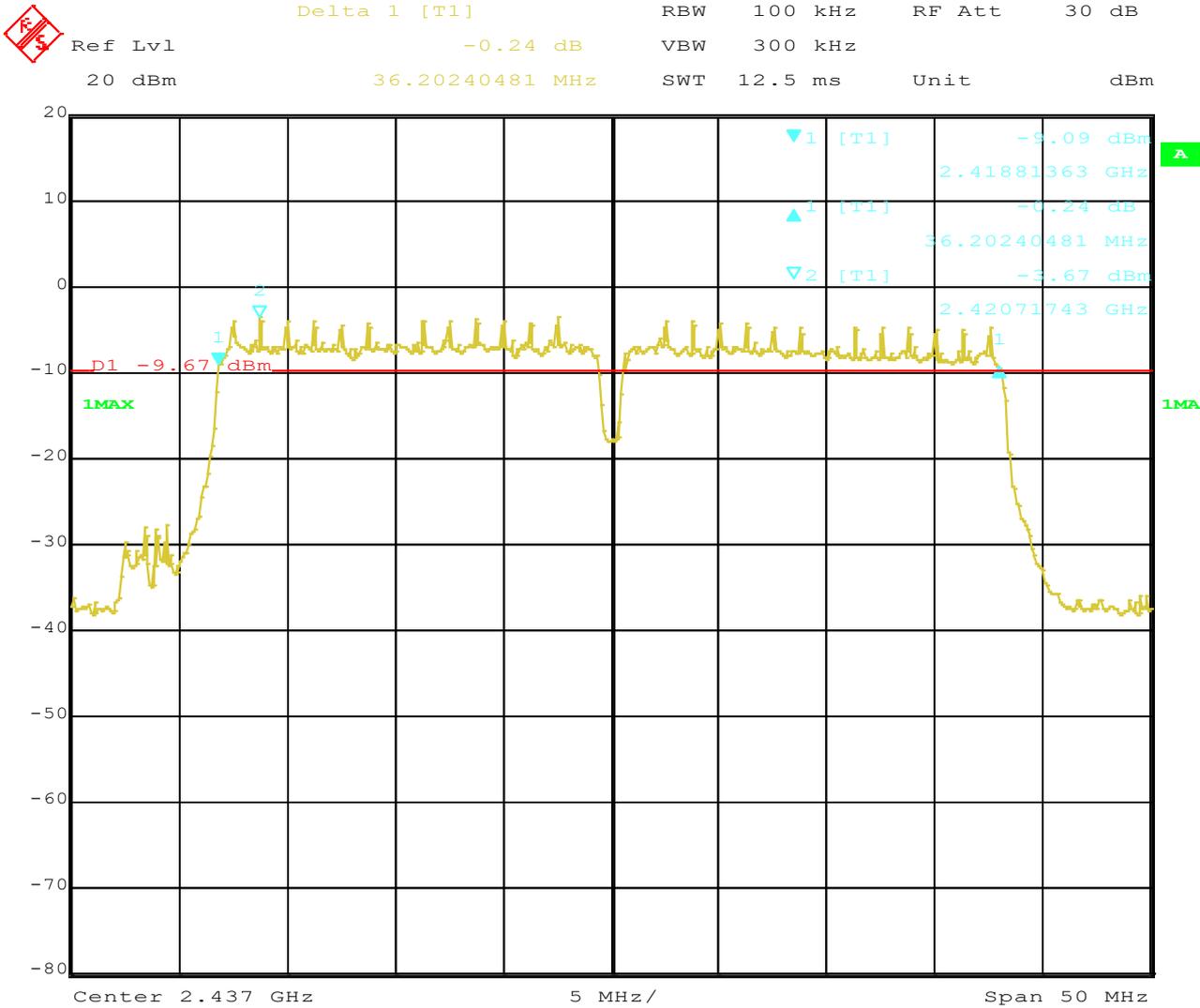
**1. 802.11n at HT40 of CH03**



Date: 27.JUL.2021 17:59:24

**2. 802.11n at HT40 of CH06**

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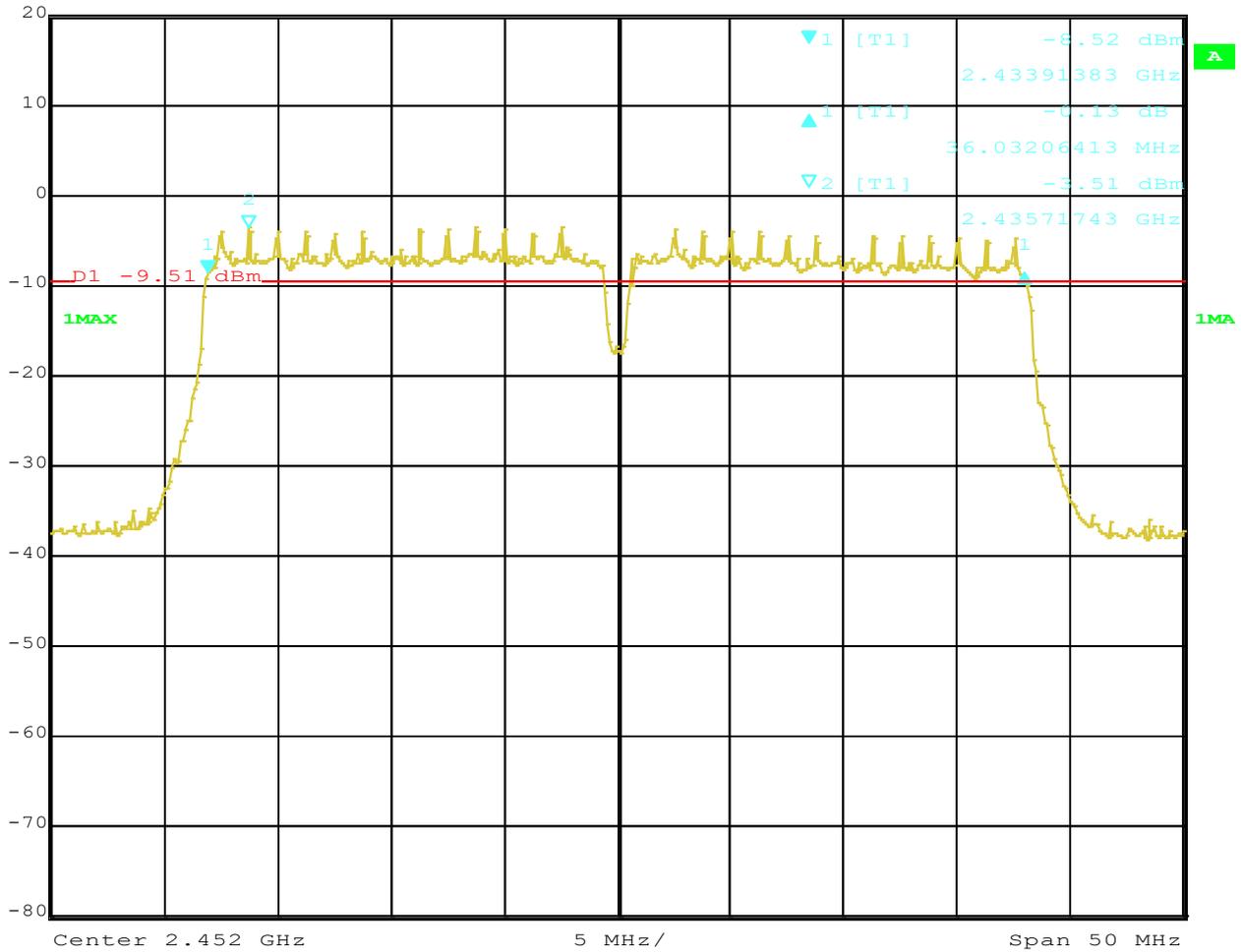
Date: 27.JUL.2021 18:00:50

### 3. 802.11n at HT40 of CH09

The report refers only to the sample tested and does not apply to the bulk.  
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	Delta 1 [T1]	RBW	100 kHz	RF Att	30 dB
Ref Lvl	-0.13 dB	VBW	300 kHz		
20 dBm	36.03206413 MHz	SWT	12.5 ms	Unit	dBm



Date: 27.JUL.2021 18:02:45

## 8. Maximum Output Power

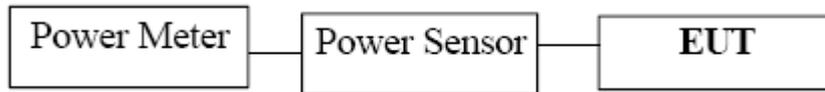
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### 8.1 Test Setup



### 8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

### 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 Peak power was measured**

### 8.4 Test Results

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EUT	Smart Plotter	Model	ZC2-Lite	
Mode	802.11b	Input Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
1	2412	19.77	30	Pass
6	2437	20.18	30	Pass
11	2462	20.48	30	Pass

- Note: 1. At final test to get the worst-case emission at 1Mbps for CH01, CH06 and CH11  
 2. The result basic equation calculation as follow:  
 Power Output = Power Reading + Cable loss + Attenuator  
 3. The worse case was recorded

EUT	Smart Plotter	Model	ZC2-Lite	
Mode	802.11g	Input Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
1	2412	20.14	30	Pass
6	2437	20.09	30	Pass
11	2462	20.43	30	Pass

- Note: 1. At final test to get the worst-case emission at 6Mbps for CH01, CH06 and CH11  
 2. The result basic equation calculation as follow:  
 Power Output = Power Reading + Cable loss + Attenuator  
 3. The worse case was recorded

EUT	Smart Plotter	Model	ZC2-Lite
-----	---------------	-------	----------

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Mode	802.11n (HT20)	Input Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
1	2412	20.04	30	Pass
6	2437	19.12	30	Pass
11	2462	19.95	30	Pass

- Note: 1. At final test to get the worst-case emission at mcs0 of 11n HT20 for CH01, CH06 and CH11  
 2. The result basic equation calculation as follow:  
 Power Output = Power Reading + Cable loss + Attenuator  
 3. The worse case was recorded

EUT	Smart Plotter	Model	ZC2-Lite	
Mode	802.11n (HT40)	Input Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Max. Power Output (dBm)	Power Limit (dBm)	Pass/ Fail
3	2422	19.02	30	Pass
6	2437	19.24	30	Pass
9	2452	18.77	30	Pass

- Note: 1. At final test to get the worst-case emission at msc0 of 11n HT40 for CH03, CH06 and CH09  
 2. The result basic equation calculation as follow:  
 Power Output = Power Reading + Cable loss + Attenuator  
 3. The worse case was recorded

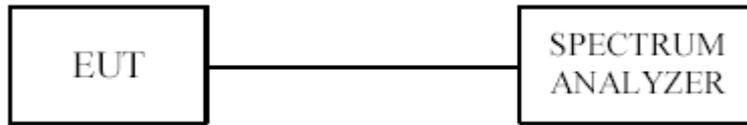
## 9. Power Spectral Density Measurement

### 9.1 Test Setup

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### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

### 9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW  $\geq$  30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
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.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be  $\leq$  8 dBm/3kHz.

### 9.4 Test Result

EUT	Smart Plotter	Model	ZC2-Lite
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Mode	802.11b 11Mbps	Input Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail
1	2412	-6.00	8	Pass
6	2437	-4.40	8	Pass
11	2462	-4.76	8	Pass

EUT	Smart Plotter	Model	ZC2-Lite	
Mode	802.11b 1Mbps	Input Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail
1	2412	-3.24	8	Pass
6	2437	-4.11	8	Pass
11	2462	-7.55	8	Pass

EUT	Smart Plotter	Model	ZC2-Lite	
Mode	802.11g 6Mbps	Input Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm/10kHz)	Limit (dBm/3kHz)	Pass/ Fail
1	2412	-7.74	8	Pass
6	2437	-7.45	8	Pass
11	2462	-6.55	8	Pass

EUT	Smart Plotter	Model	ZC2-Lite	
Mode	802.11n HT20 mcs0	Input Voltage	120V~	

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Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm/10kHz)		Limit (dBm/3kHz)	Pass/ Fail		
1	2412	-8.00		8	Pass		
6	2437	-7.05		8	Pass		
11	2462	-7.84		8	Pass		

EUT		Smart Plotter		Model		ZC2-Lite	
Mode		802.11n HT40 mcs0		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm/10kHz)		Limit (dBm/3kHz)	Pass/ Fail		
3	2422	-11.63		8	Pass		
6	2437	-11.94		8	Pass		
9	2452	-12.23		8	Pass		

### 9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01

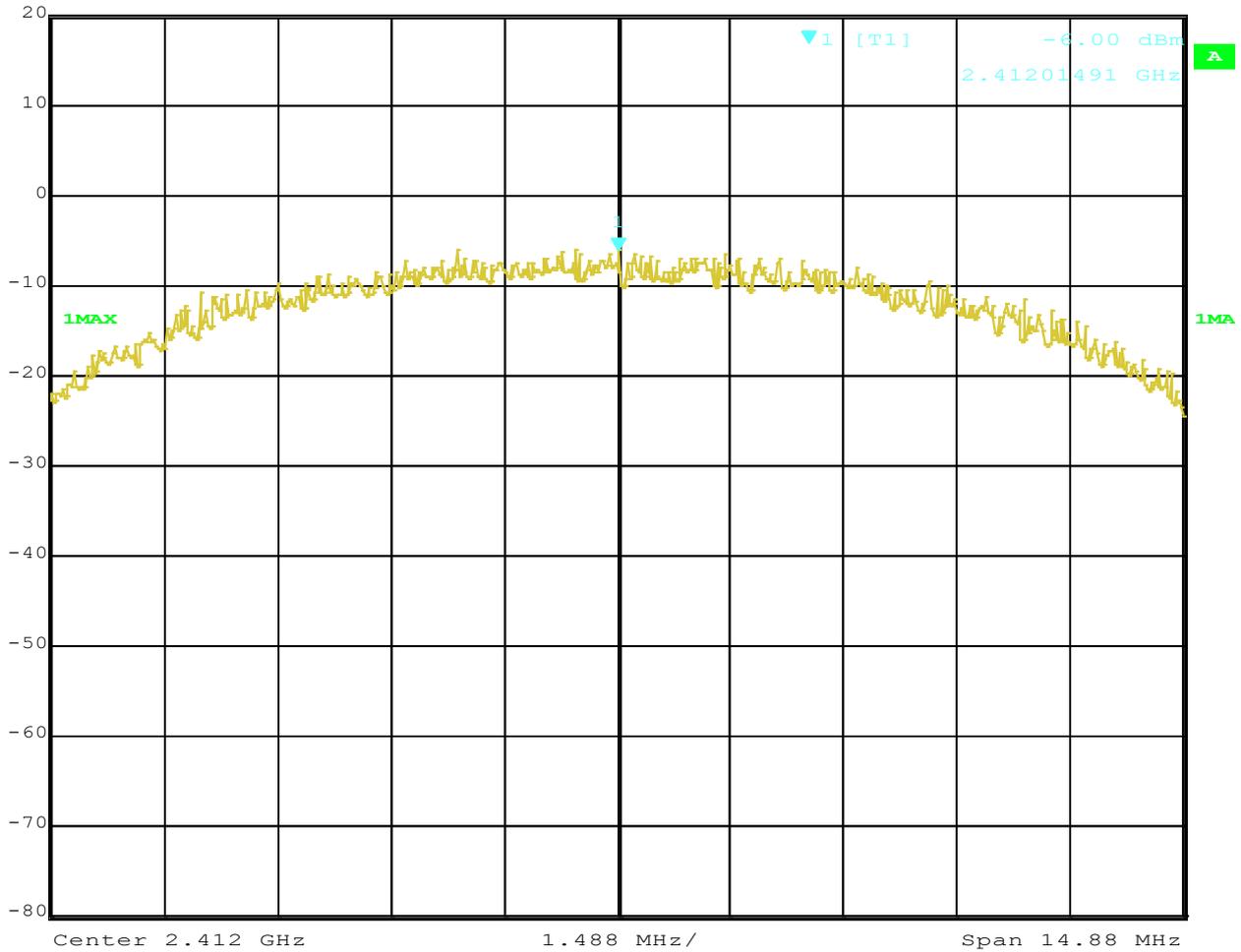
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Ref Lvl	20 dBm	Marker 1 [T1]	2.41201491 GHz	RBW	10 kHz	RF Att	30 dB
				VBW	30 kHz		
				SWT	380 ms	Unit	dBm



Date: 27.JUL.2021 18:47:05

## 2. 802.11b at 11Mbps at CH06

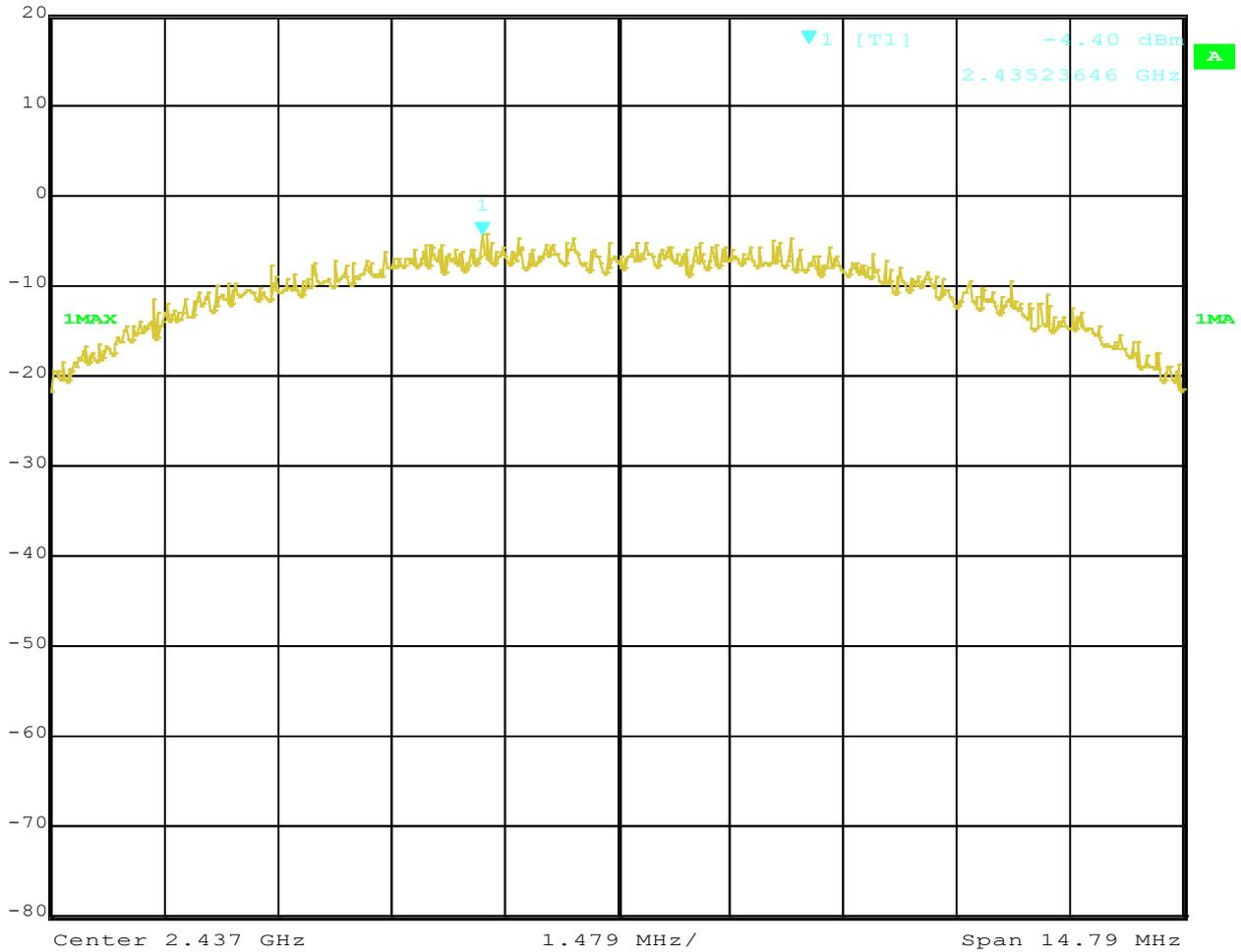
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	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
Ref Lvl	-4.40 dBm	VBW	30 kHz		
20 dBm	2.43523646 GHz	SWT	370 ms	Unit	dBm



Date: 27.JUL.2021 18:48:44

### 3. 802.11b at 11Mbps of CH11

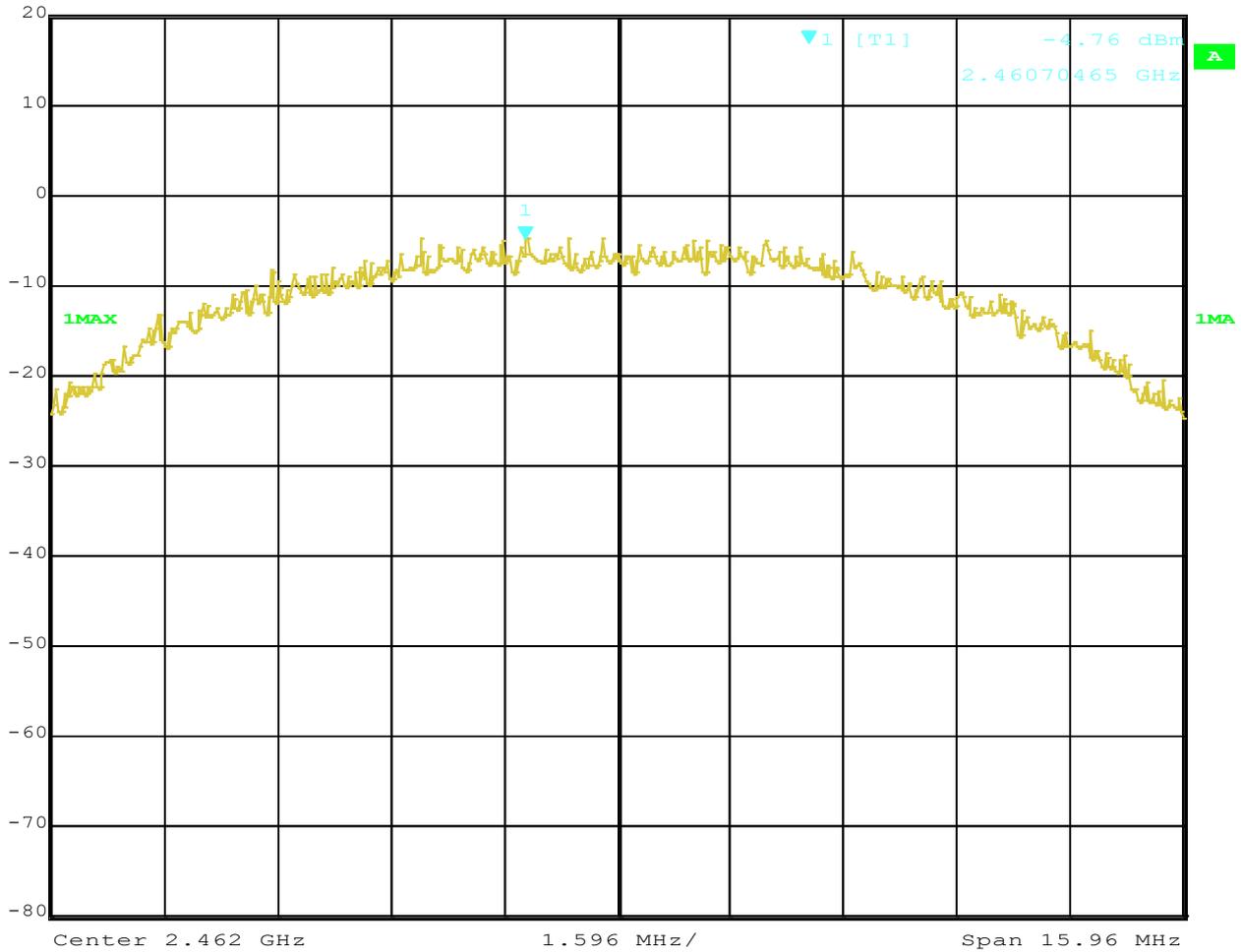
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	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
Ref Lvl	-4.76 dBm	VBW	30 kHz		
20 dBm	2.46070465 GHz	SWT	400 ms	Unit	dBm



Date: 27.JUL.2021 18:49:30

#### 4. 802.11b at 1Mbps of CH1

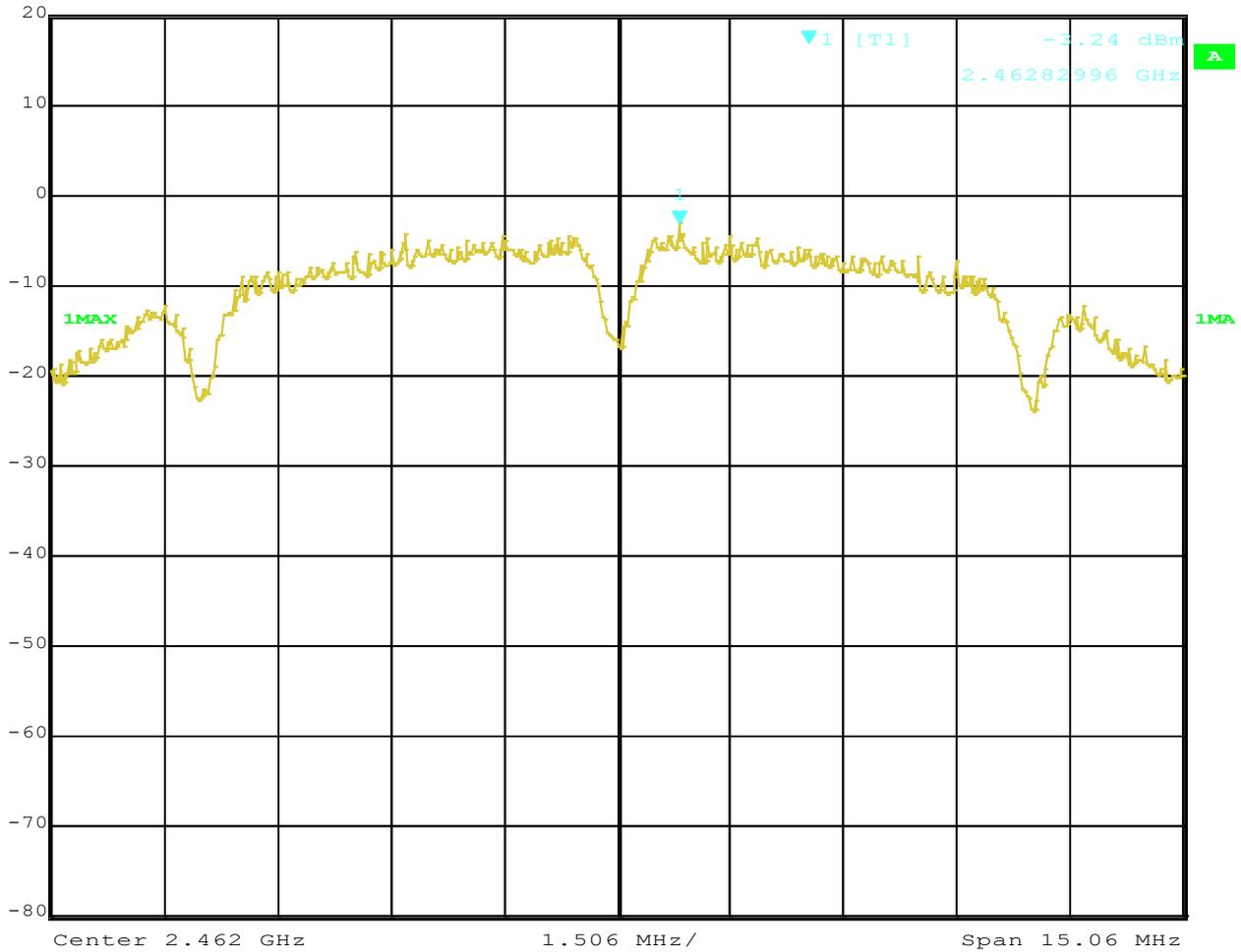
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Ref Lvl	20 dBm	Marker 1 [T1]	-3.24 dBm	RBW	10 kHz	RF Att	30 dB
			2.46282996 GHz	VBW	30 kHz	Unit	dBm
				SWT	380 ms		



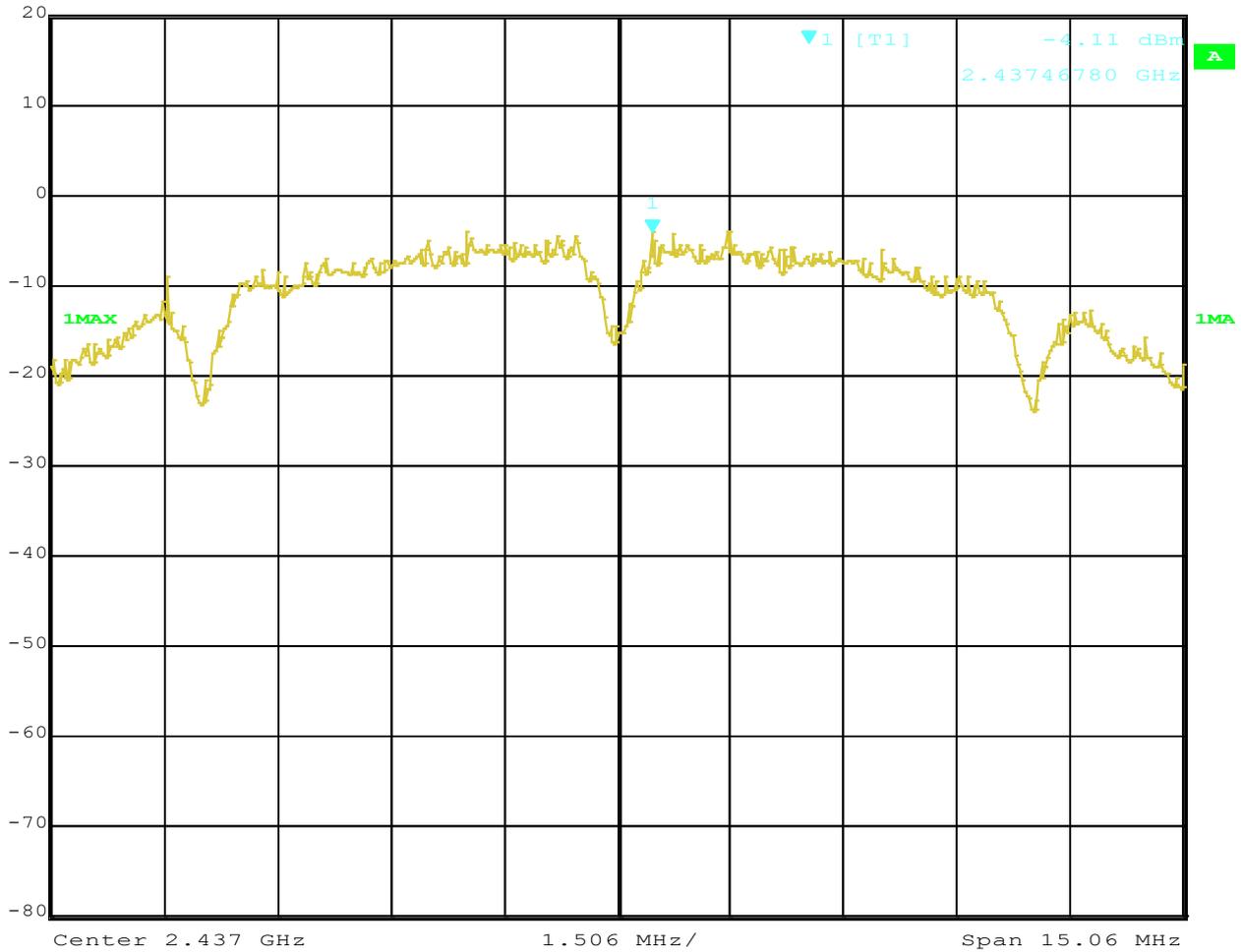
Date: 27.JUL.2021 19:01:22

### 5. 802.11b at 1Mbps of CH6

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	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
Ref Lvl	-4.11 dBm	VBW	30 kHz		
20 dBm	2.43746780 GHz	SWT	380 ms	Unit	dBm



Date: 27.JUL.2021 19:00:53

### 6. 802.11b at 1Mbps of CH11

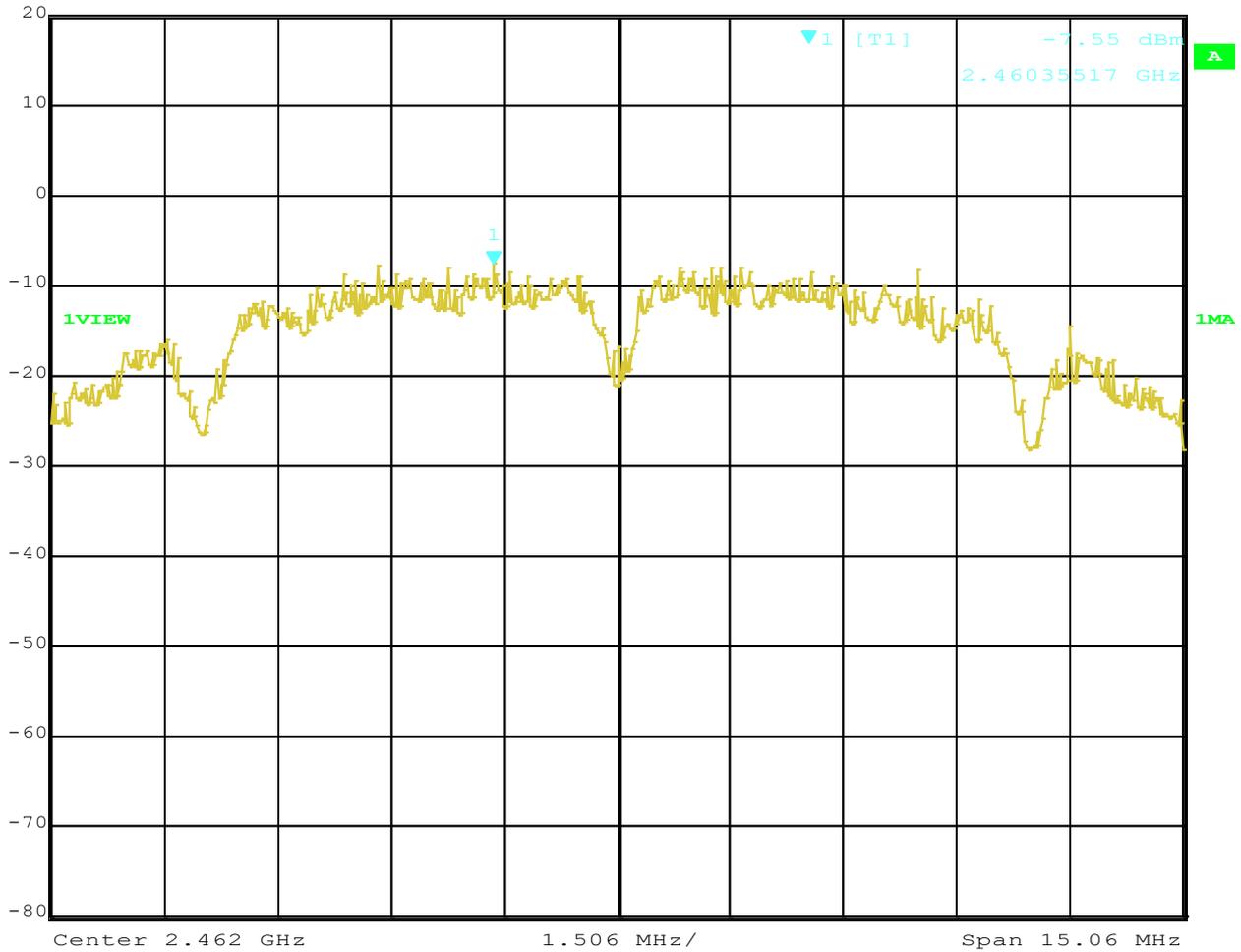
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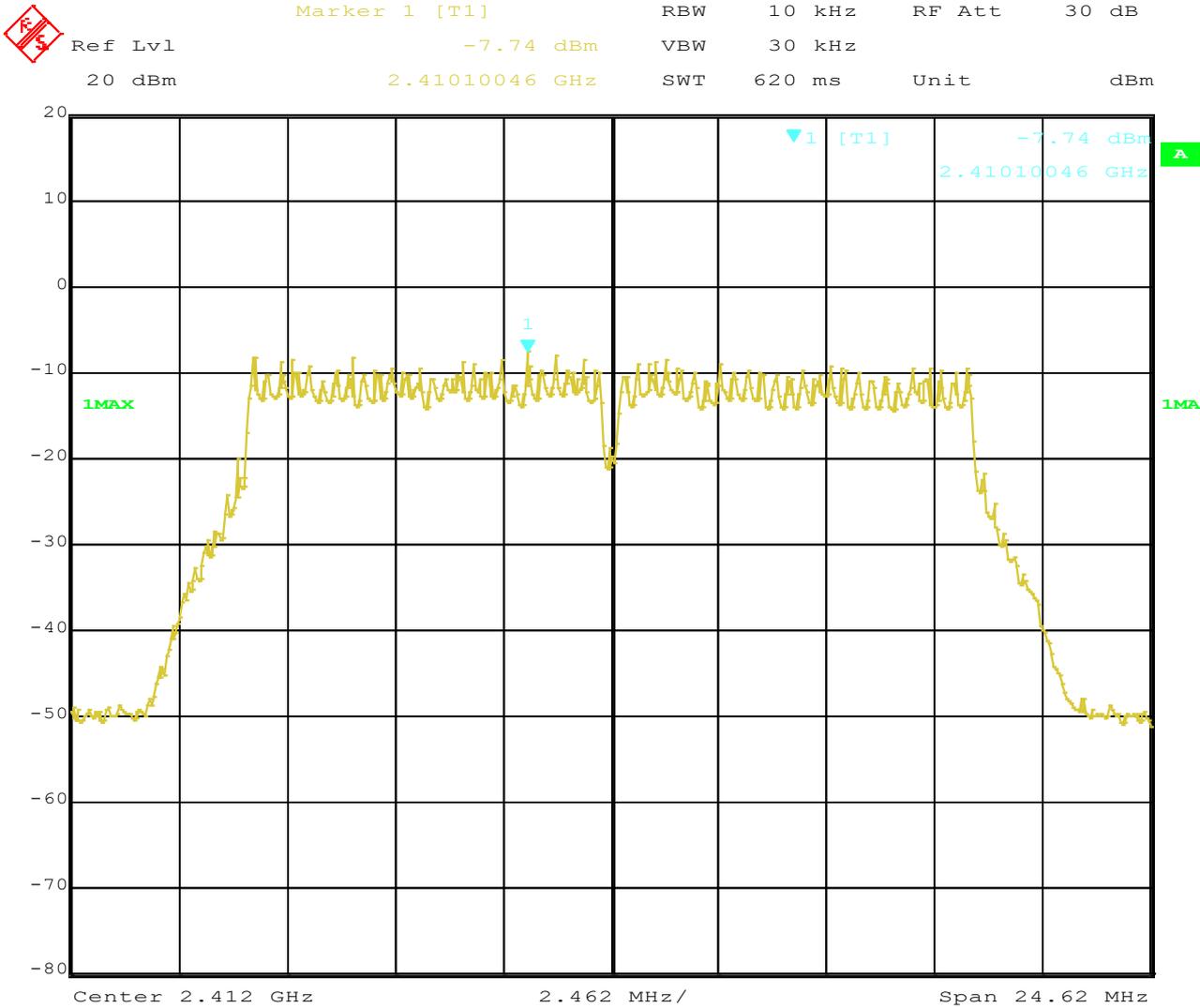
Ref Lvl	20 dBm	Marker 1 [T1]	-7.55 dBm	RBW	10 kHz	RF Att	30 dB
			2.46035517 GHz	VBW	30 kHz	Unit	dBm
				SWT	380 ms		



Date: 28.JUL.2021 10:48:00

### 7. 802.11g at 6Mbps of CH1

The report refers only to the sample tested and does not apply to the bulk.  
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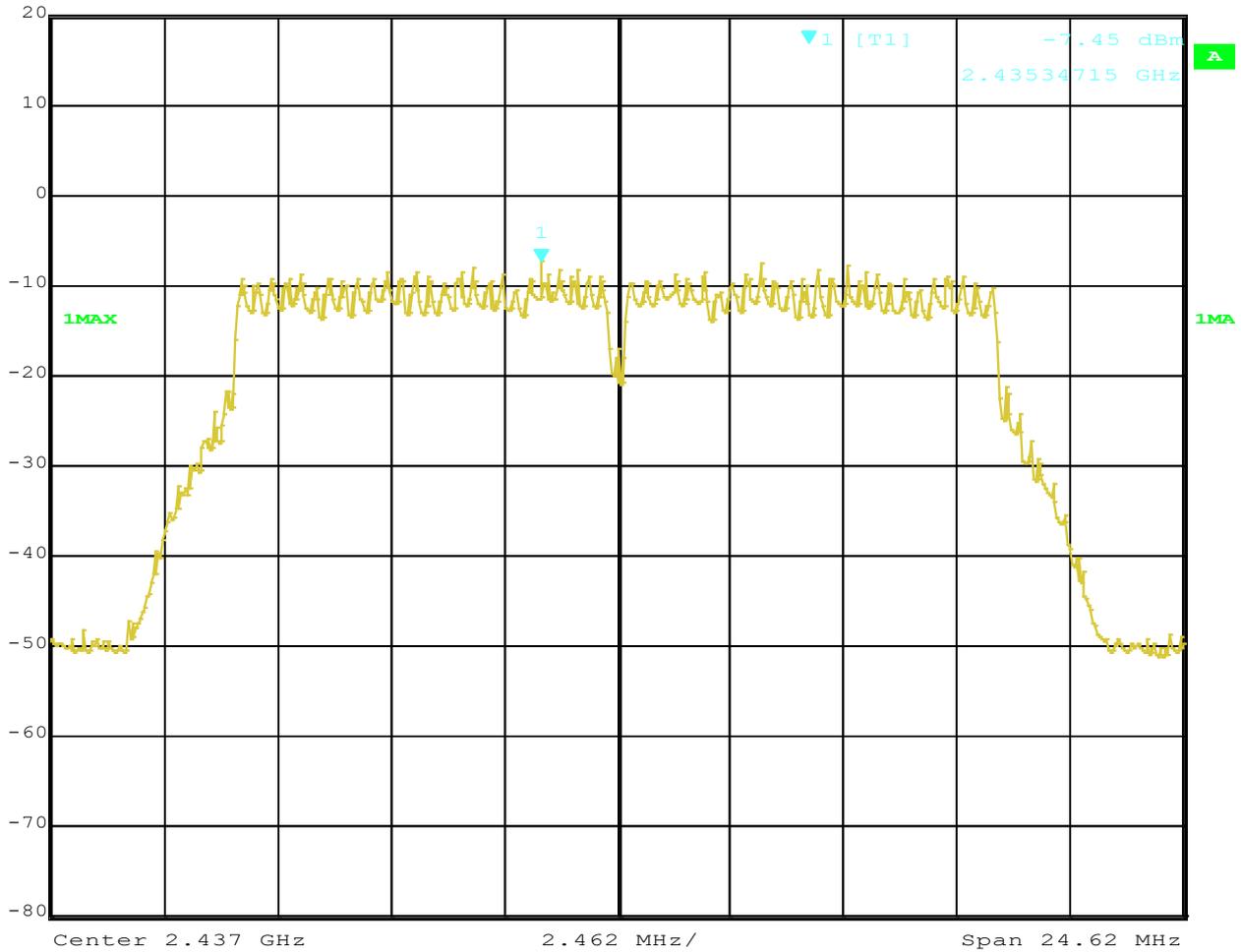
Date: 27.JUL.2021 18:59:15

### 8. 802.11g at 6Mbps of CH6

The report refers only to the sample tested and does not apply to the bulk.  
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Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
20 dBm	-7.45 dBm	VBW	30 kHz		
	2.43534715 GHz	SWT	620 ms	Unit	dBm



Date: 27.JUL.2021 18:56:40

### 9. 802.11g at 6Mbps of CH11

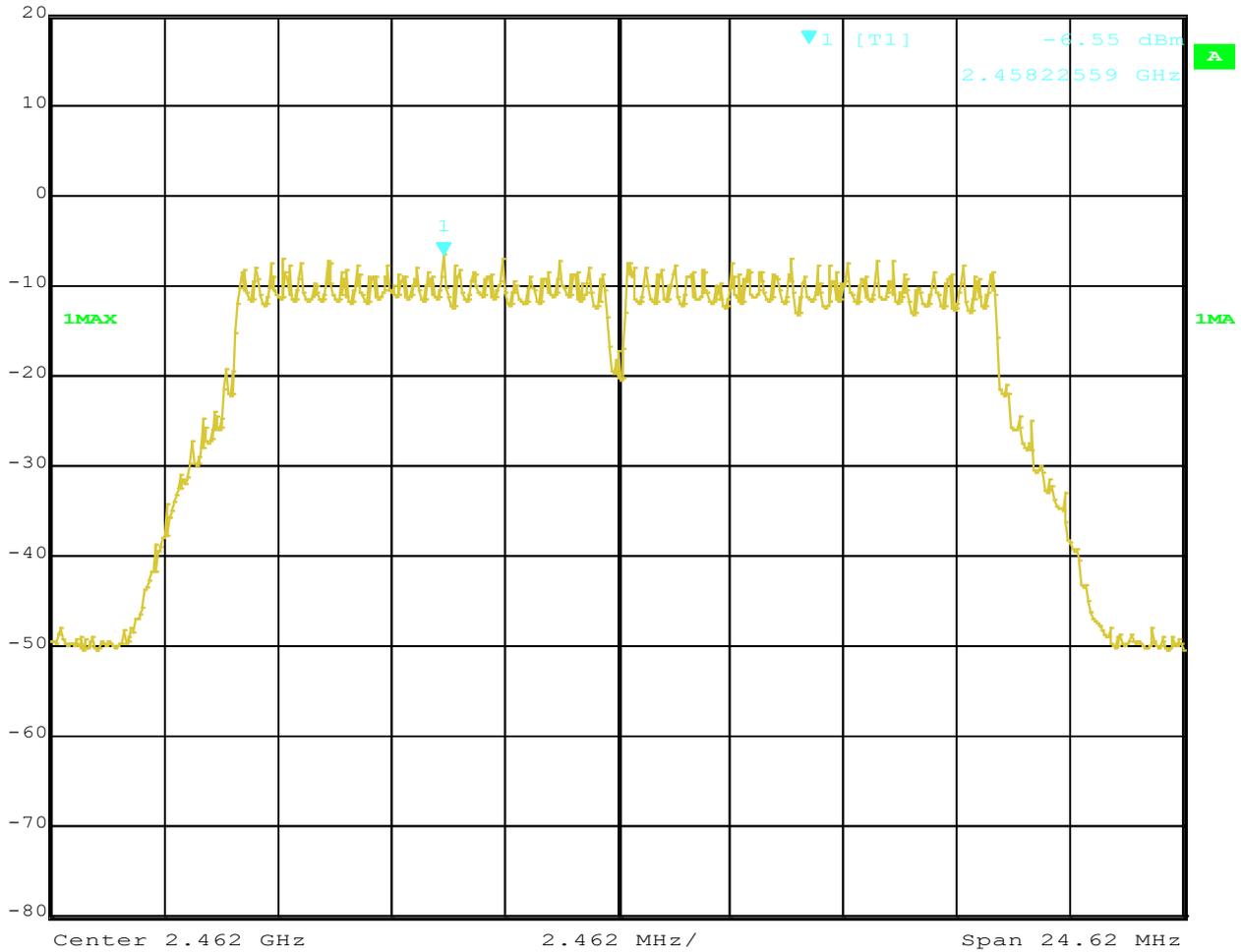
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Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
Ref Lvl	-6.55 dBm	VBW	30 kHz	
20 dBm	2.45822559 GHz	SWT	620 ms	Unit dBm



Date: 27.JUL.2021 18:54:49

### 10. 802.11n at HT20 of CH01

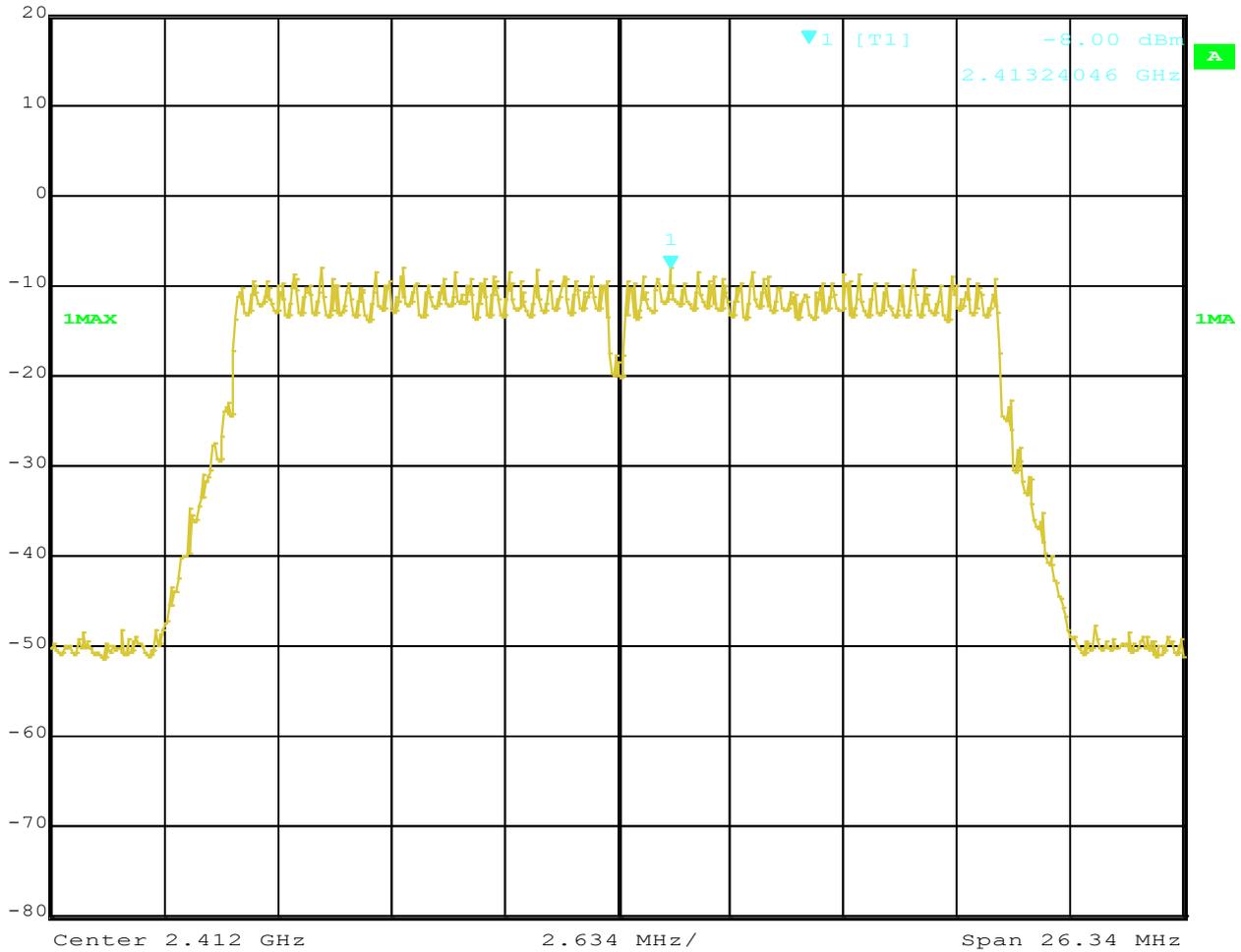
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Ref Lvl	20 dBm	Marker 1 [T1]	-8.00 dBm	RBW	10 kHz	RF Att	30 dB
			2.41324046 GHz	VBW	30 kHz	Unit	dBm
				SWT	660 ms		



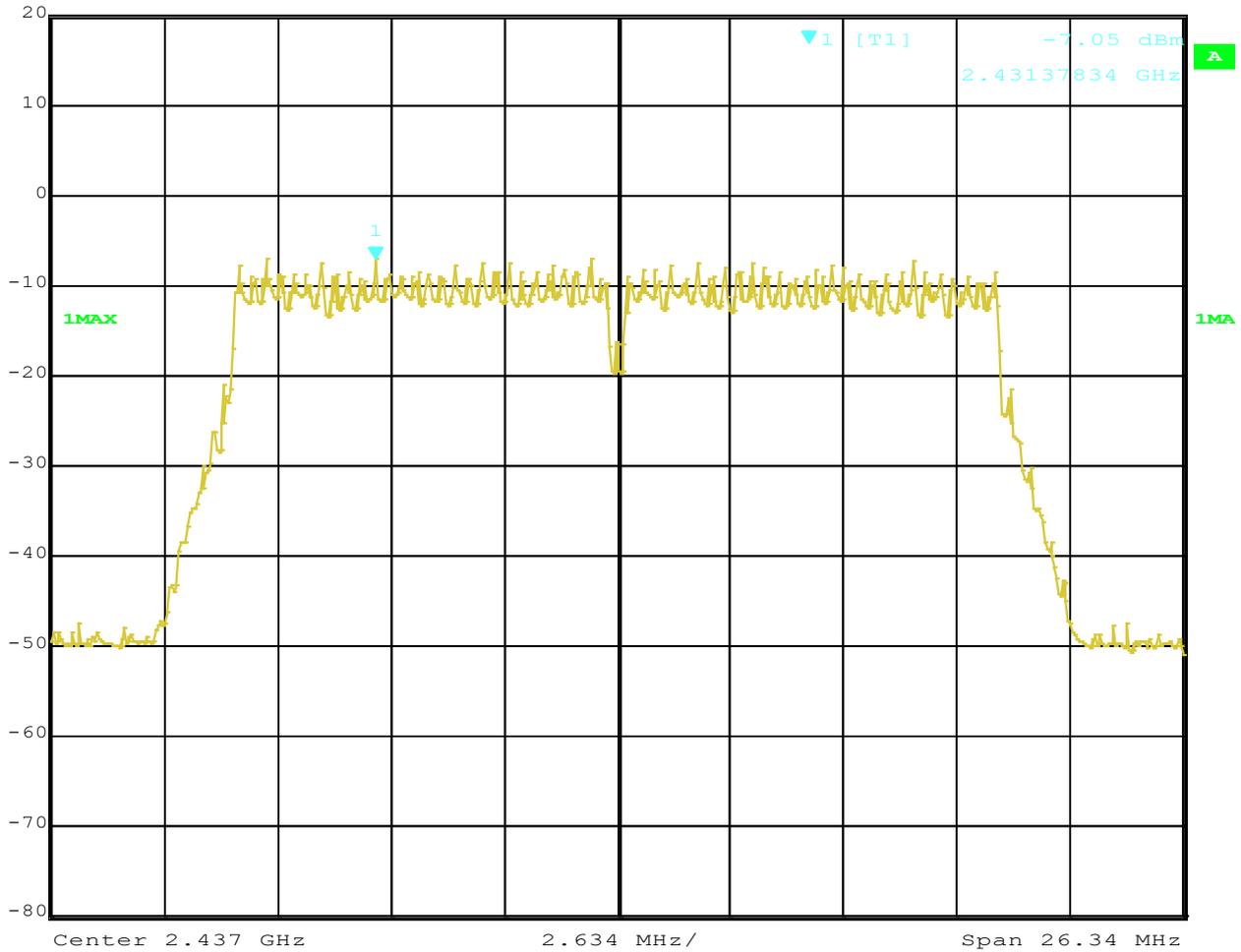
Date: 27.JUL.2021 19:13:32

11. 802.11n at HT20 of CH06

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	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
Ref Lvl	-7.05 dBm	VBW	30 kHz		
20 dBm	2.43137834 GHz	SWT	660 ms	Unit	dBm



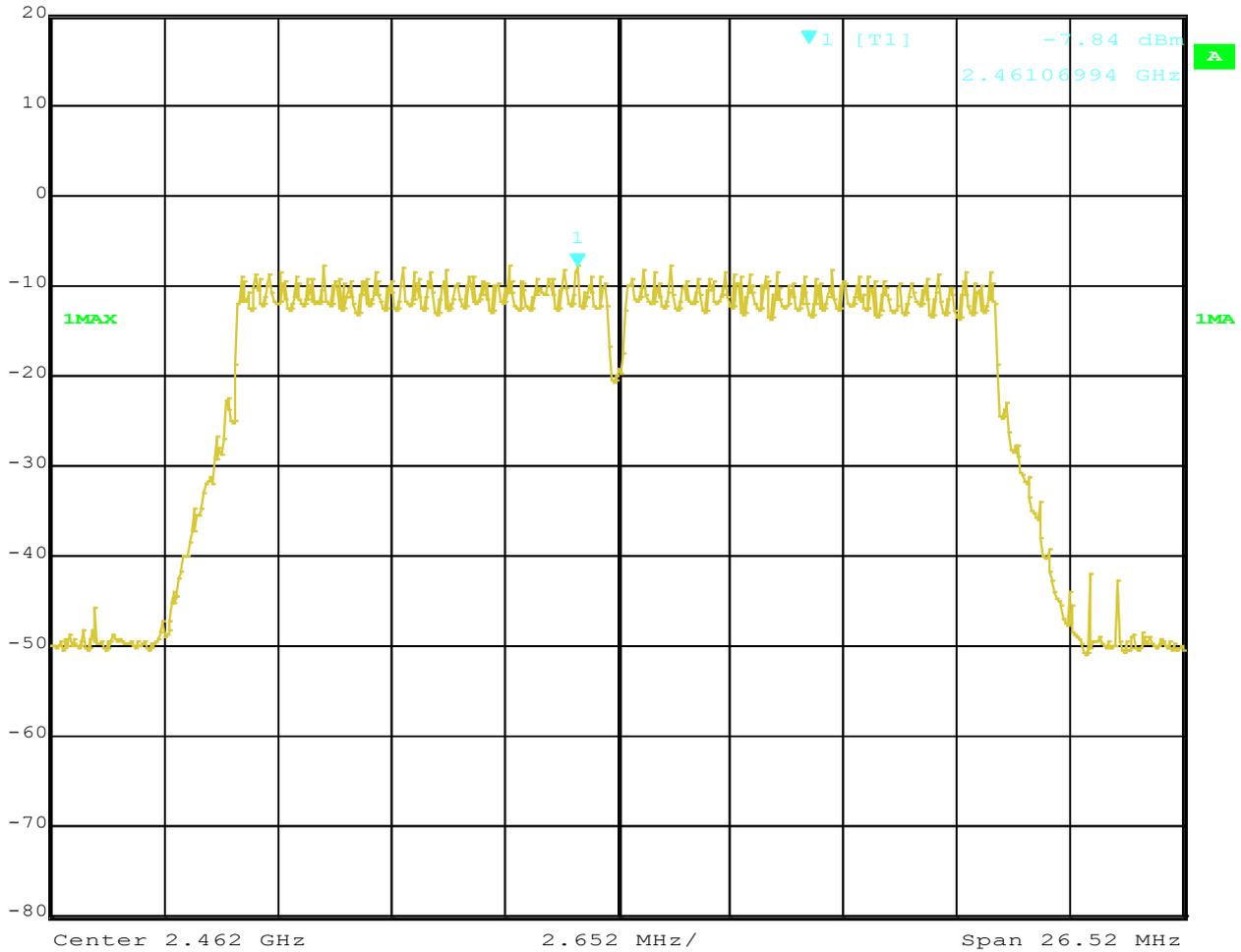
Date: 27.JUL.2021 19:11:49

12. 802.11n at HT20 of CH11

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	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
Ref Lvl	-7.84 dBm	VBW	30 kHz		
20 dBm	2.46106994 GHz	SWT	680 ms	Unit	dBm



Date: 27.JUL.2021 19:06:00

### 13. 802.11n at HT40 of CH01

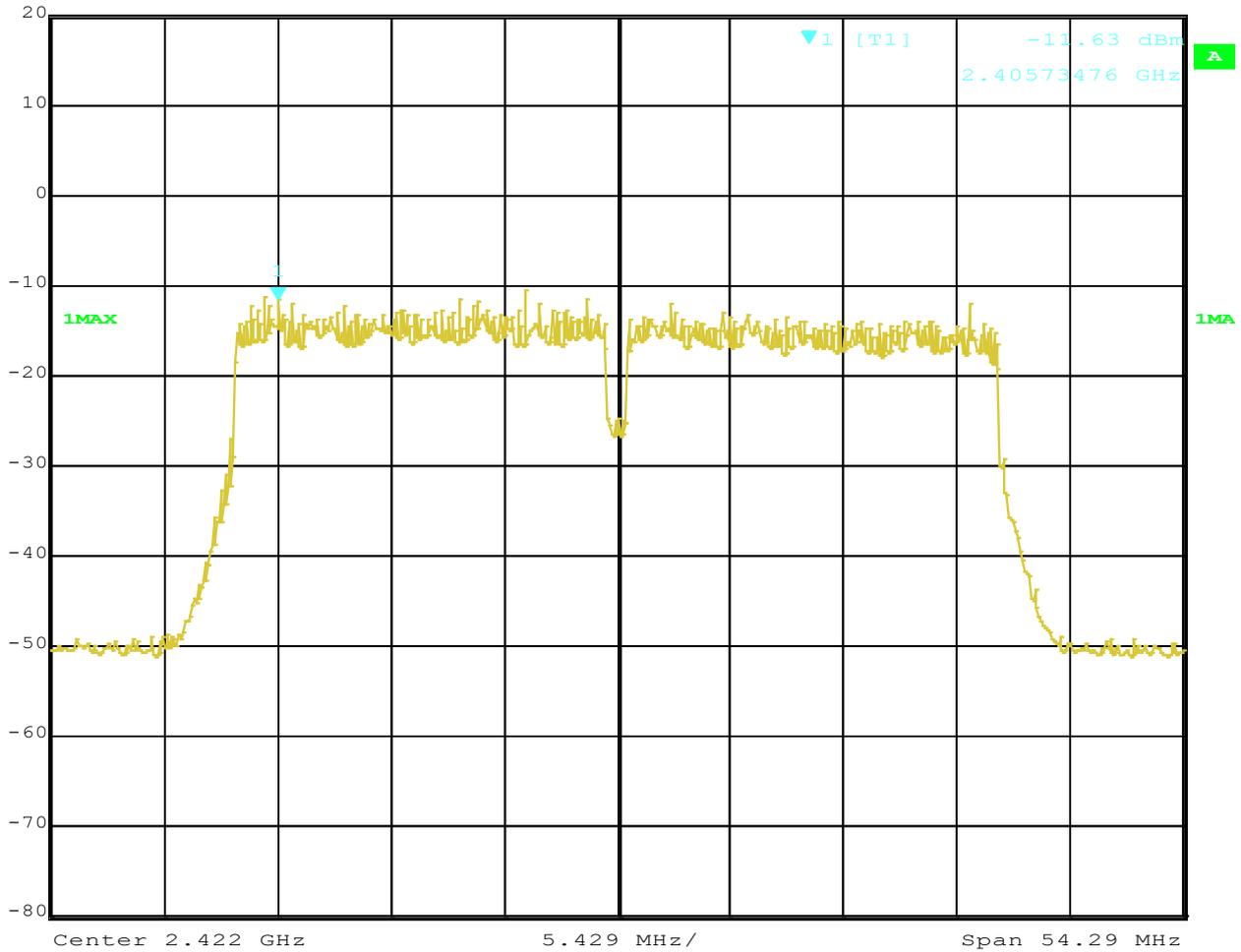
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Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
20 dBm	-11.63 dBm	VBW	30 kHz		
	2.40573476 GHz	SWT	1.4 s	Unit	dBm



Date: 27.JUL.2021 19:15:35

#### 14. 802.11n at HT40 of CH04

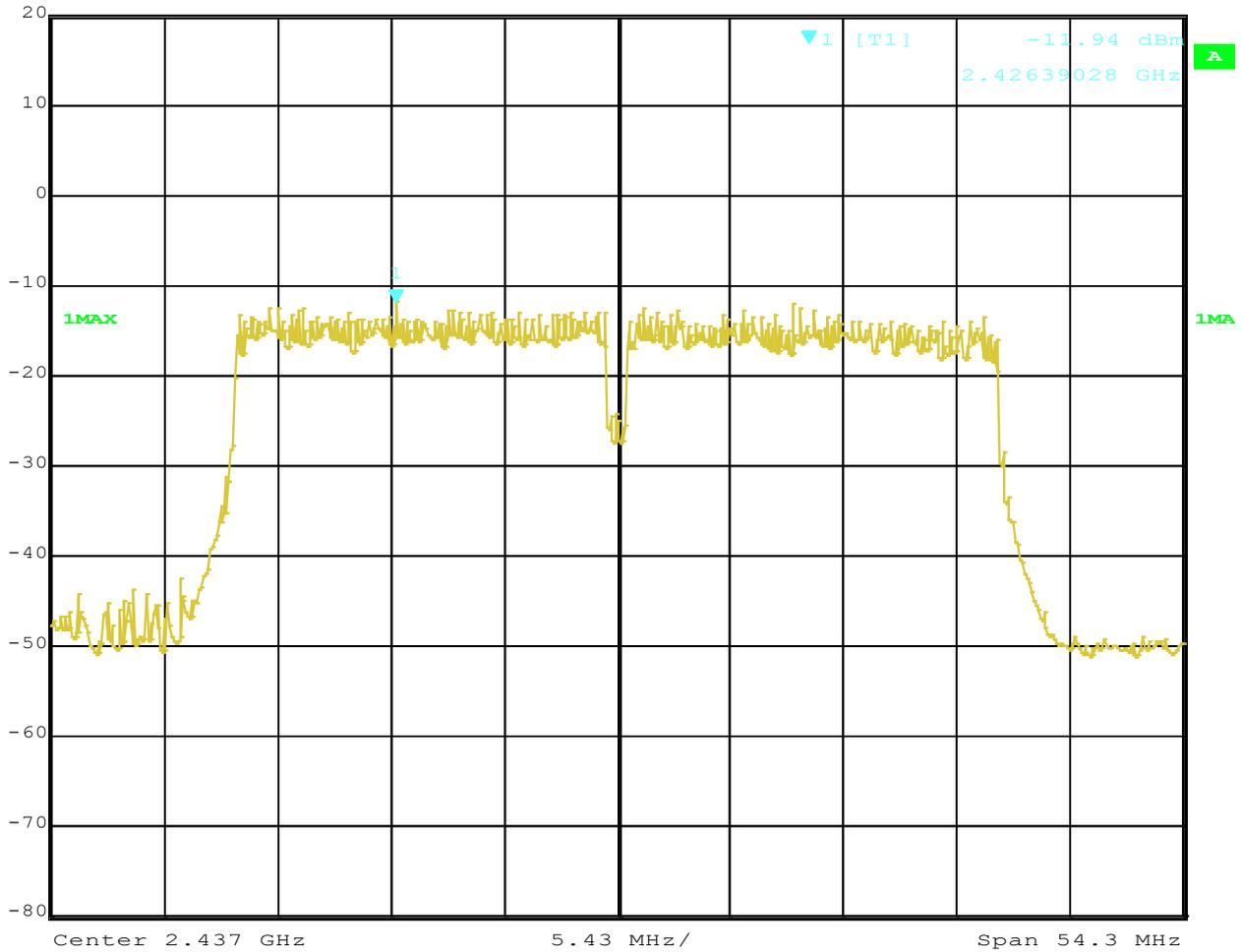
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	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
Ref Lvl	-11.94 dBm	VBW	30 kHz		
20 dBm	2.42639028 GHz	SWT	1.4 s	Unit	dBm



Date: 27.JUL.2021 19:18:02

15. 802.11n at HT40 of CH07

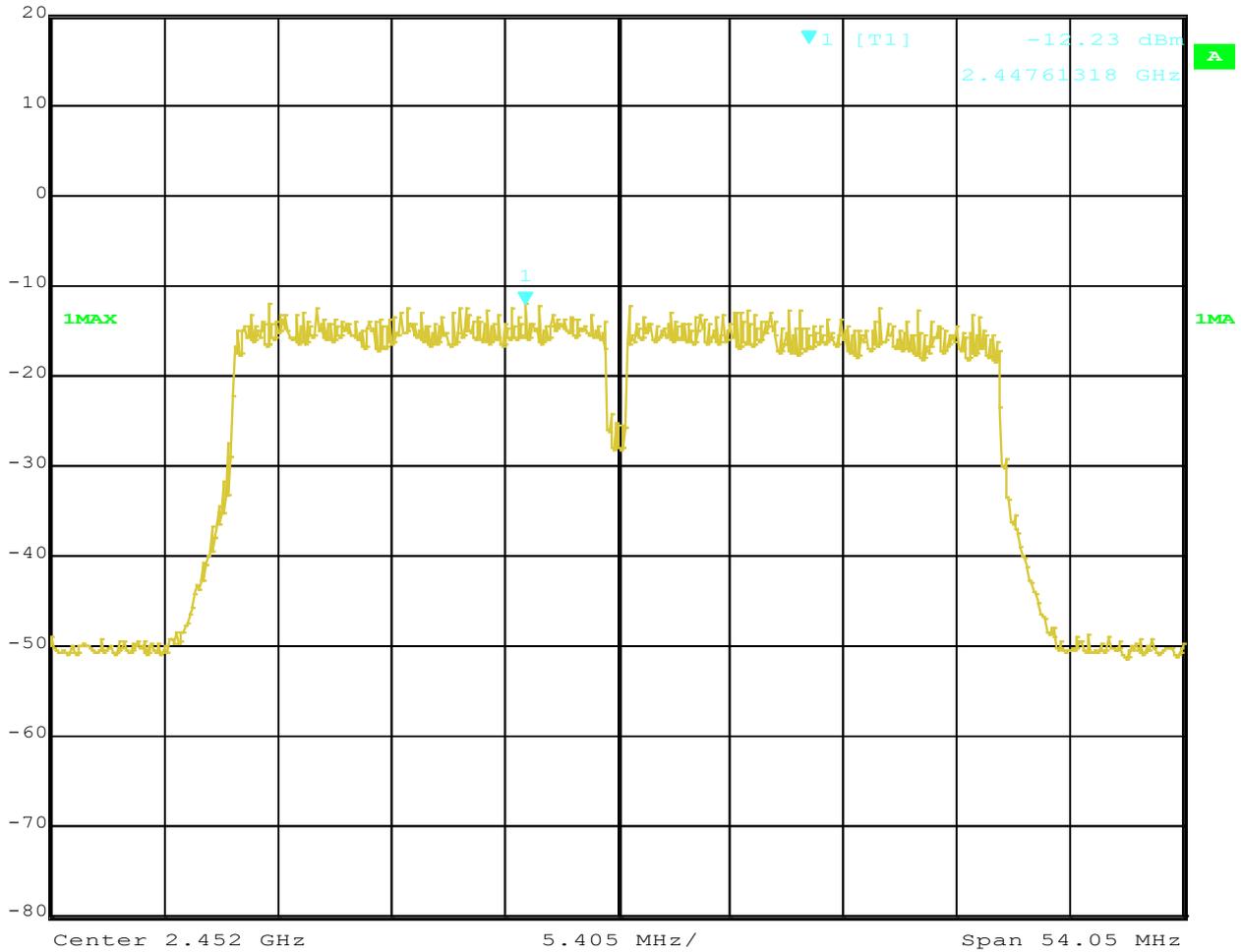
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Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	30 dB
20 dBm	-12.23 dBm	VBW	30 kHz		
	2.44761318 GHz	SWT	1.4 s	Unit	dBm



Date: 27.JUL.2021 19:20:25

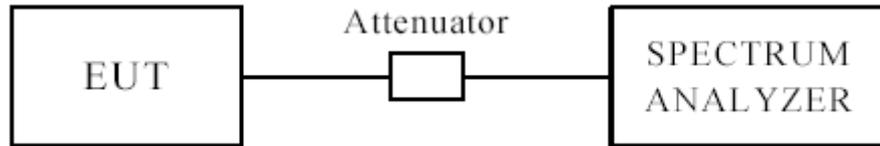
## 10 Out of Band Measurement

### 10.1 Test Setup for band edge

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**The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup**

### 10.2 Limits of Out of Band Emissions Measurement

1. Below  $-20\text{dB}$  of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

### 10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. (Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=100, VBW=300 kHz. A conducted measurement used

### 10.4 Test Result

Please see next pages

Note: For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

### For 802.11b mode

CH01 at 1Mbps

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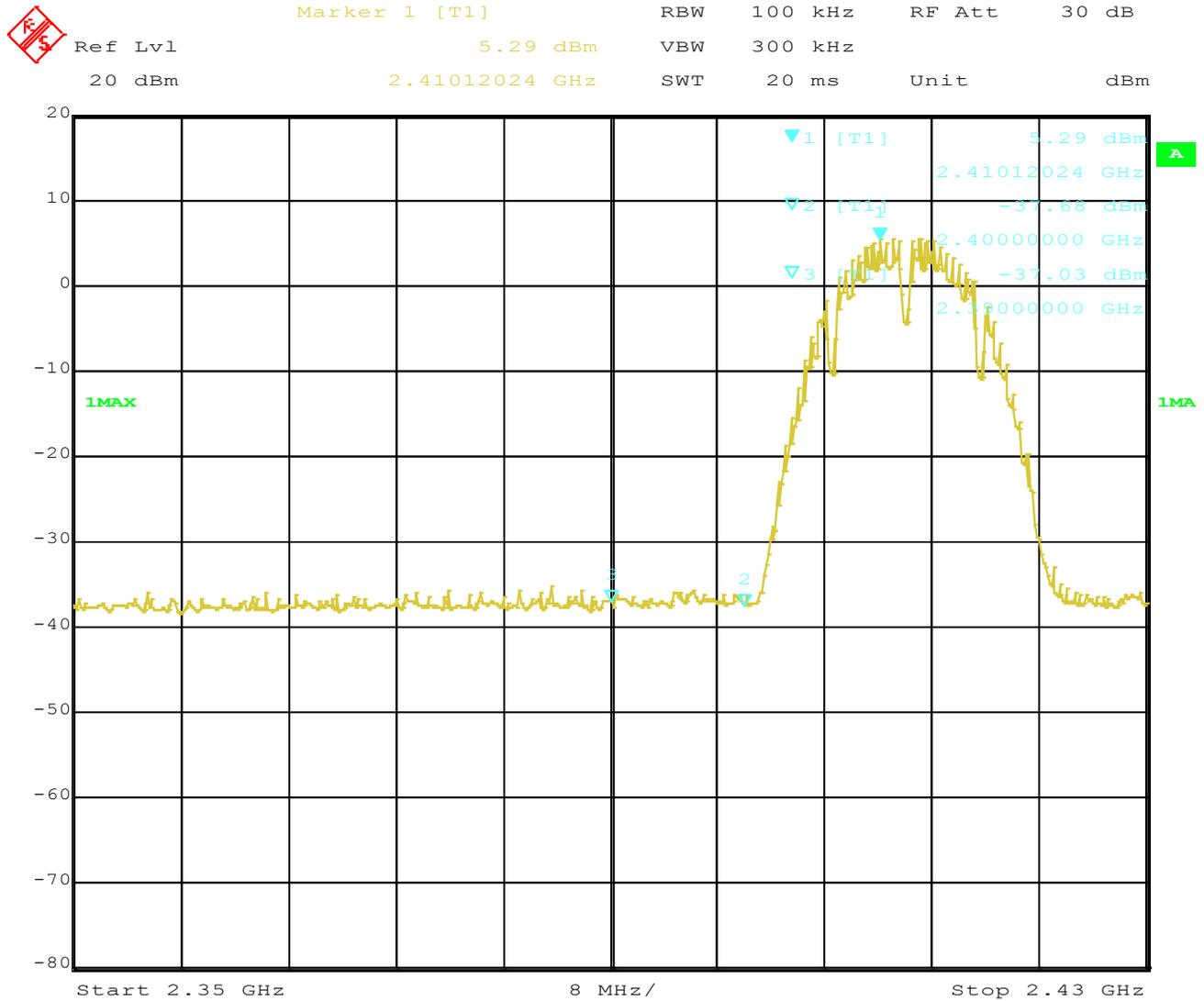
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**10.4 Band-edge Measurement**

EUT	Smart Plotter	Model	ZC2-Lite
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 27.JUL.2021 19:23:43

CH11 at 1Mbps

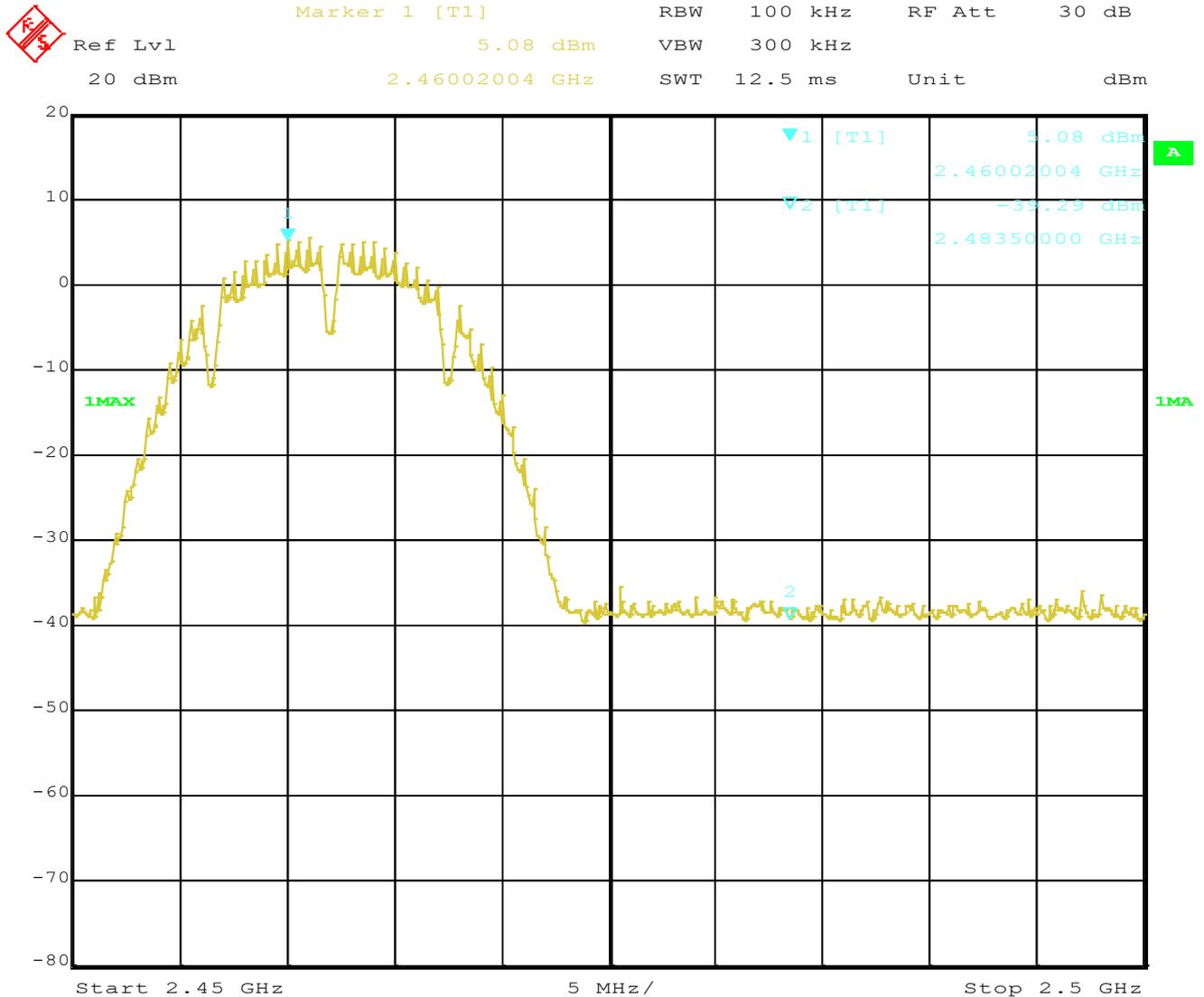
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EUT	Smart Plotter	Model	ZC2-Lite
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 27.JUL.2021 19:29:44

For 802.11b mode  
 CH01 at 11Mbps

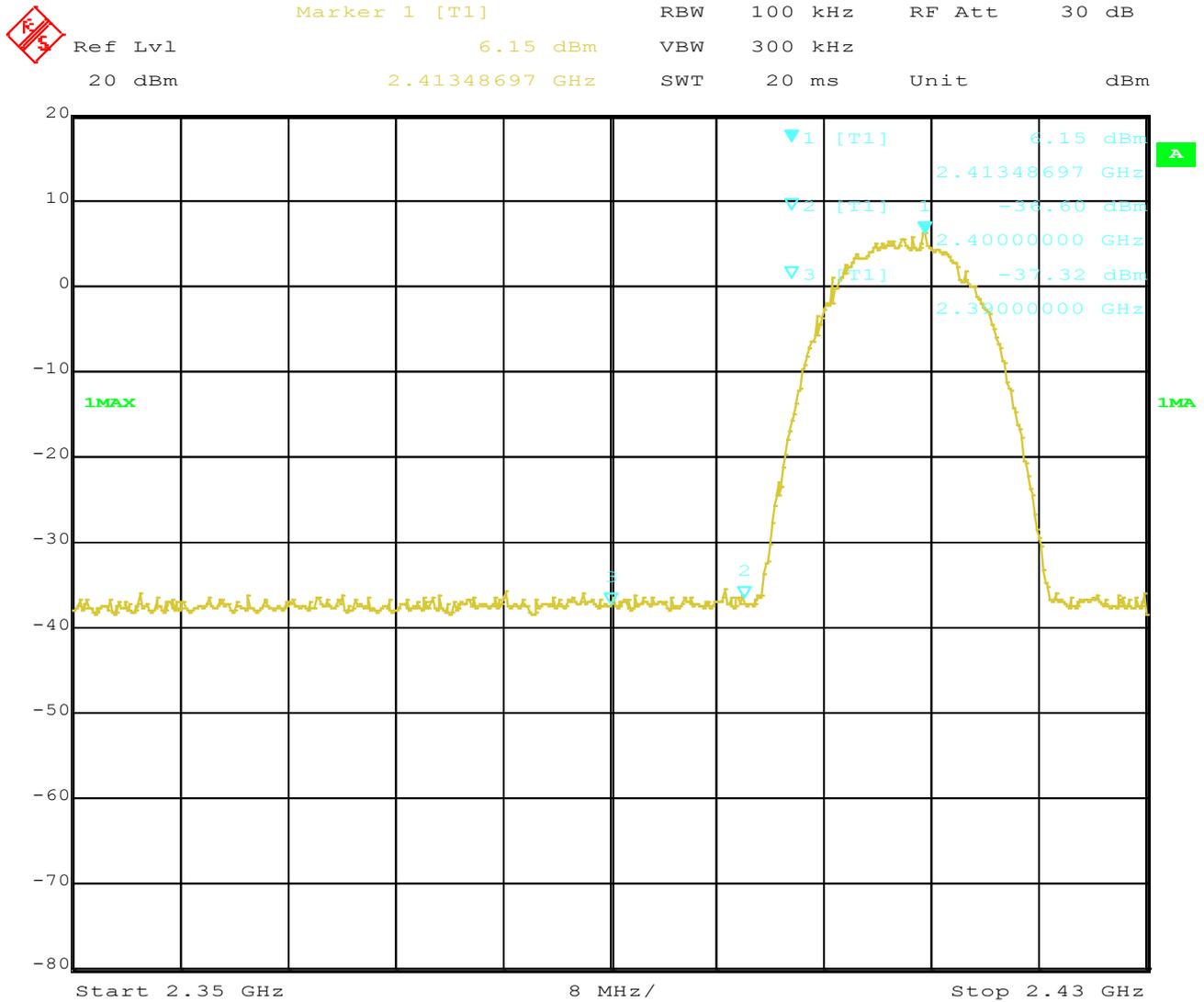
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**10.4 Band-edge Measurement**

EUT	Smart Plotter	Model	ZC2-Lite
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 27.JUL.2021 19:25:46

CH11 at 11Mbps

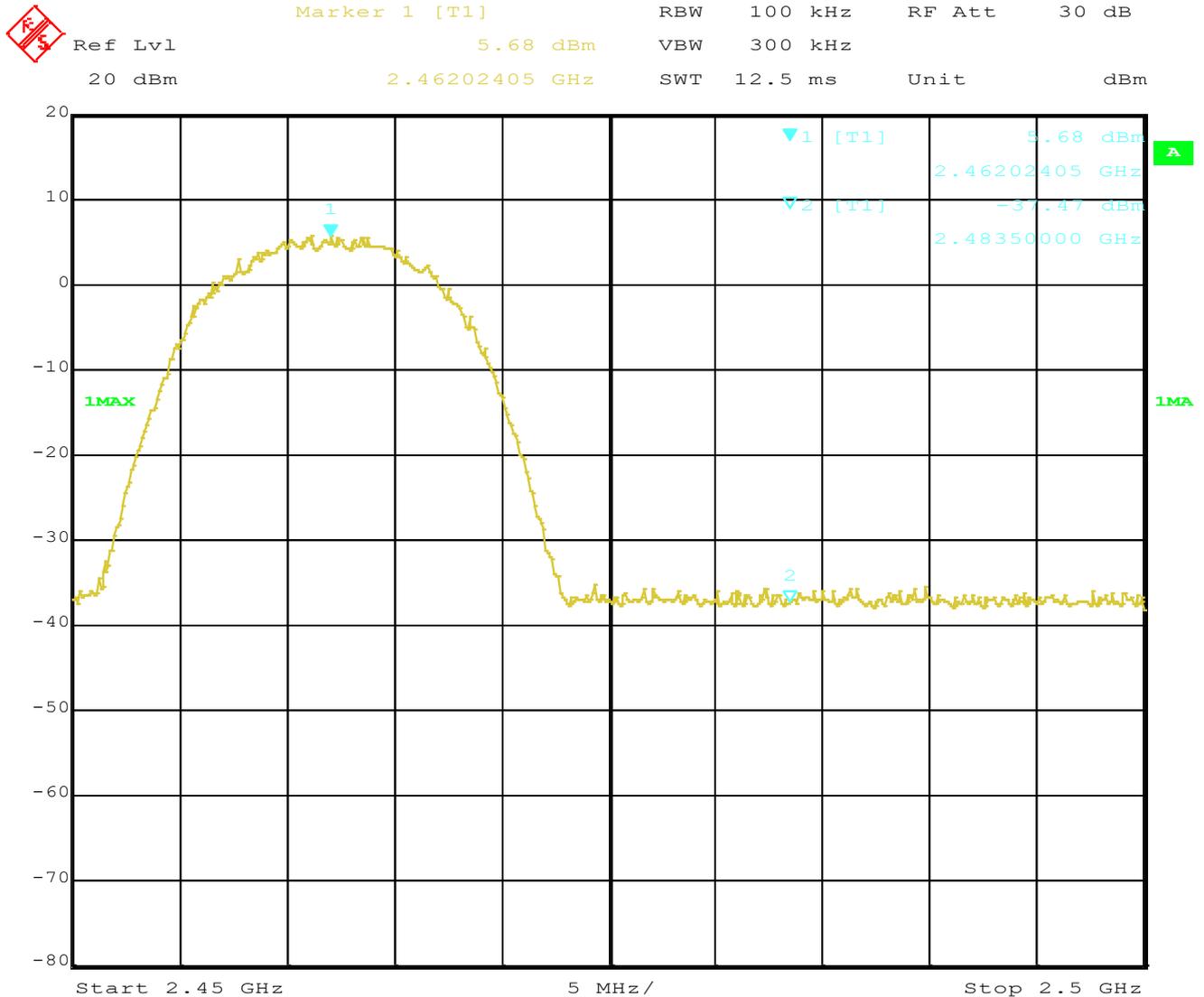
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EUT	Smart Plotter	Model	ZC2-Lite
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 27.JUL.2021 19:28:39

For 802.11g mode  
 CH01 at 6Mbps

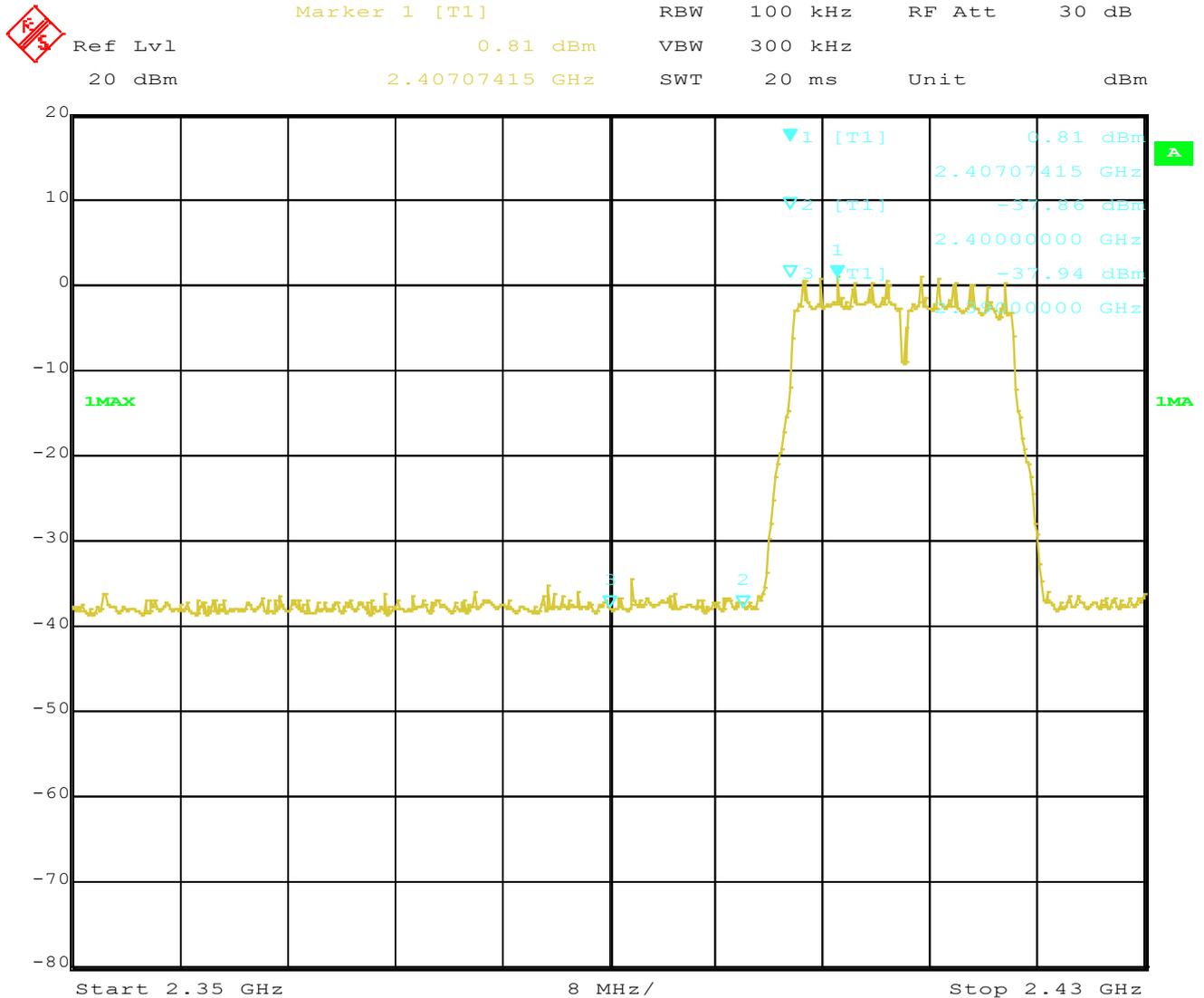
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**10.4 Band-edge Measurement**

EUT	Smart Plotter	Model	ZC2-Lite
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 27.JUL.2021 19:24:24

CH11 at 6Mbps

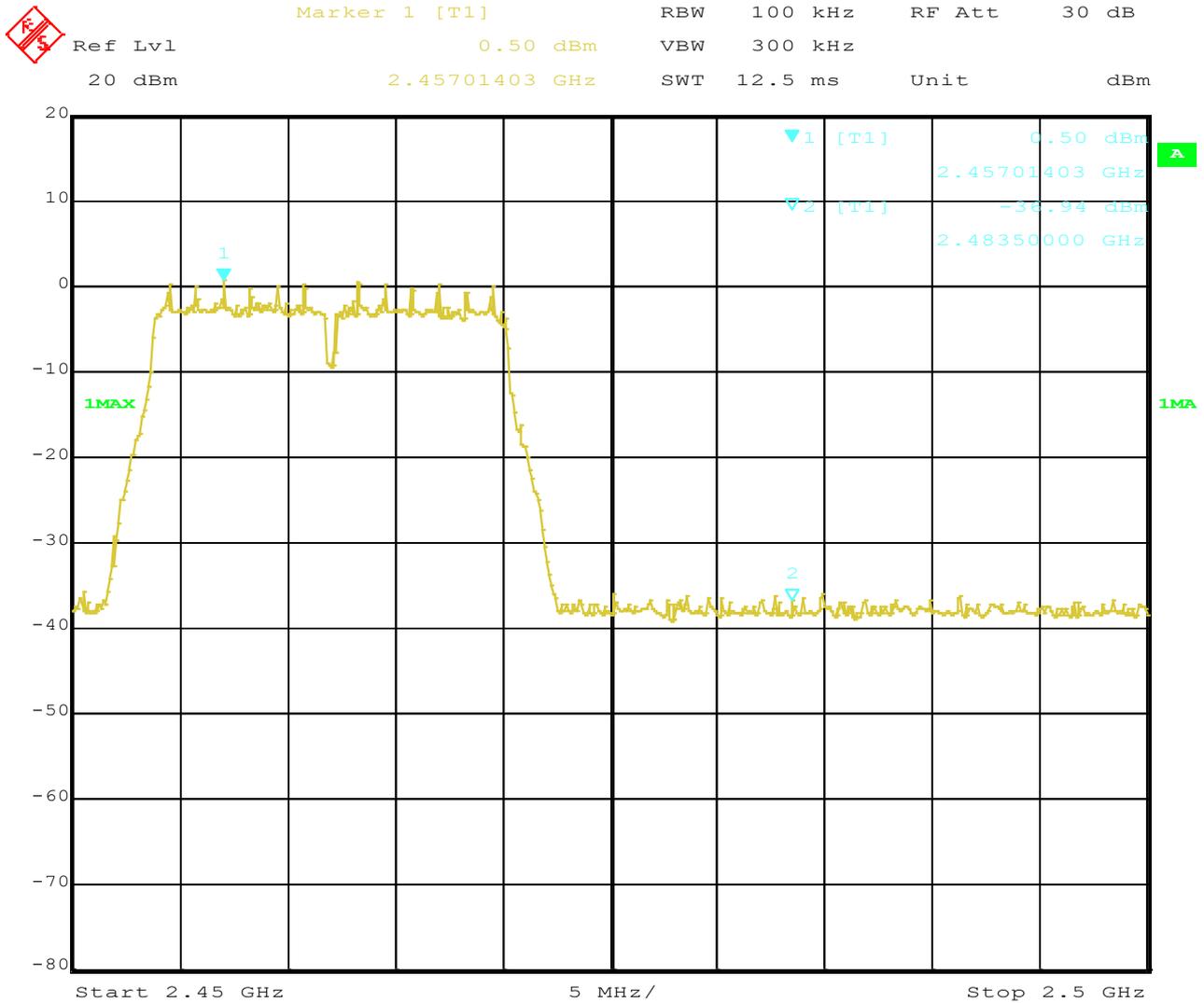
**10.4 Band-edge Measurement**

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EUT	Smart Plotter	Model	ZC2-Lite
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 27.JUL.2021 19:29:15

For 802.11n (HT20) mode

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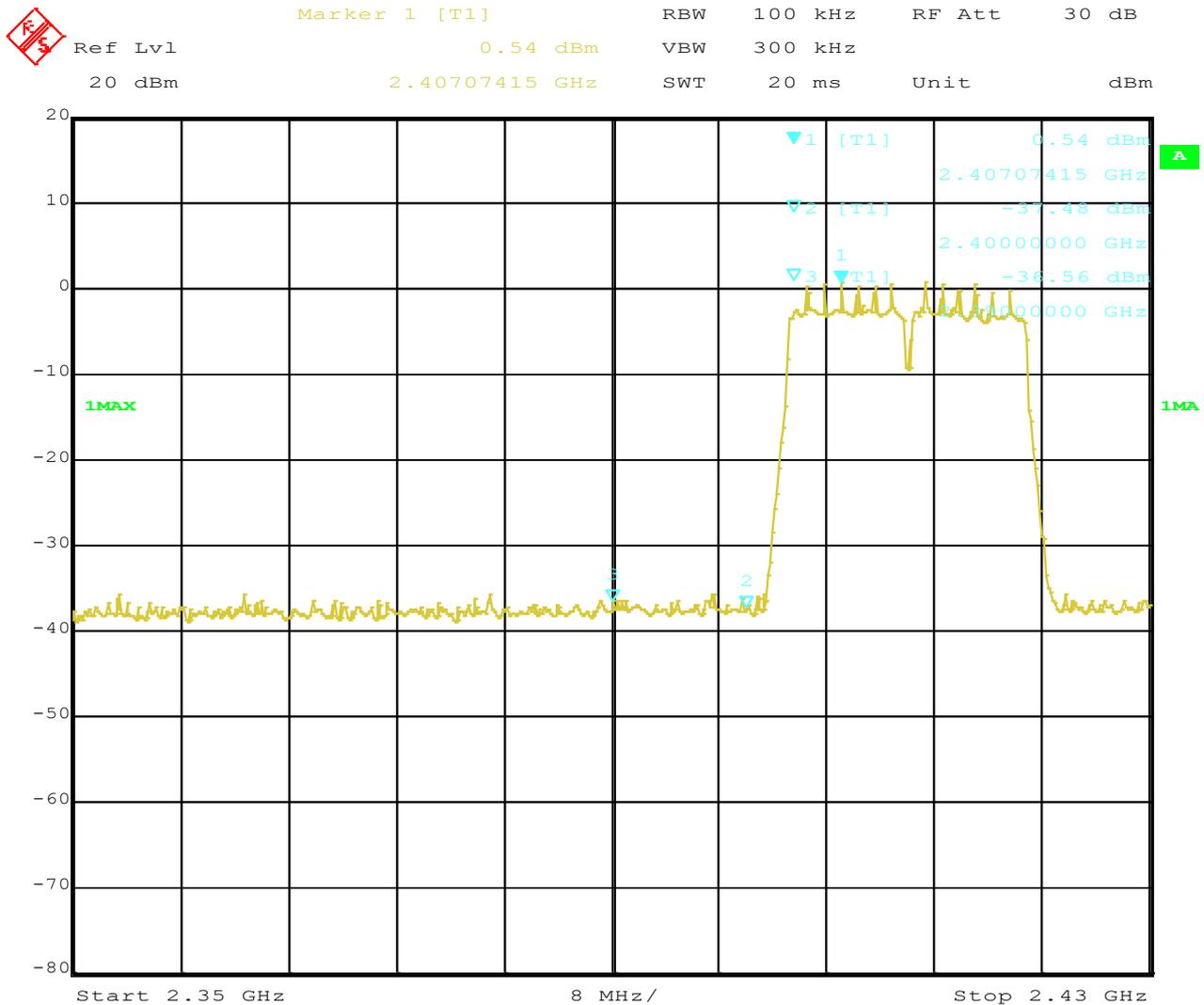


CH01 at mcs0

**10.4 Band-edge Measurement**

EUT	Smart Plotter	Model	ZC2-Lite
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 27.JUL.2021 19:22:24

CH11 at mcs0

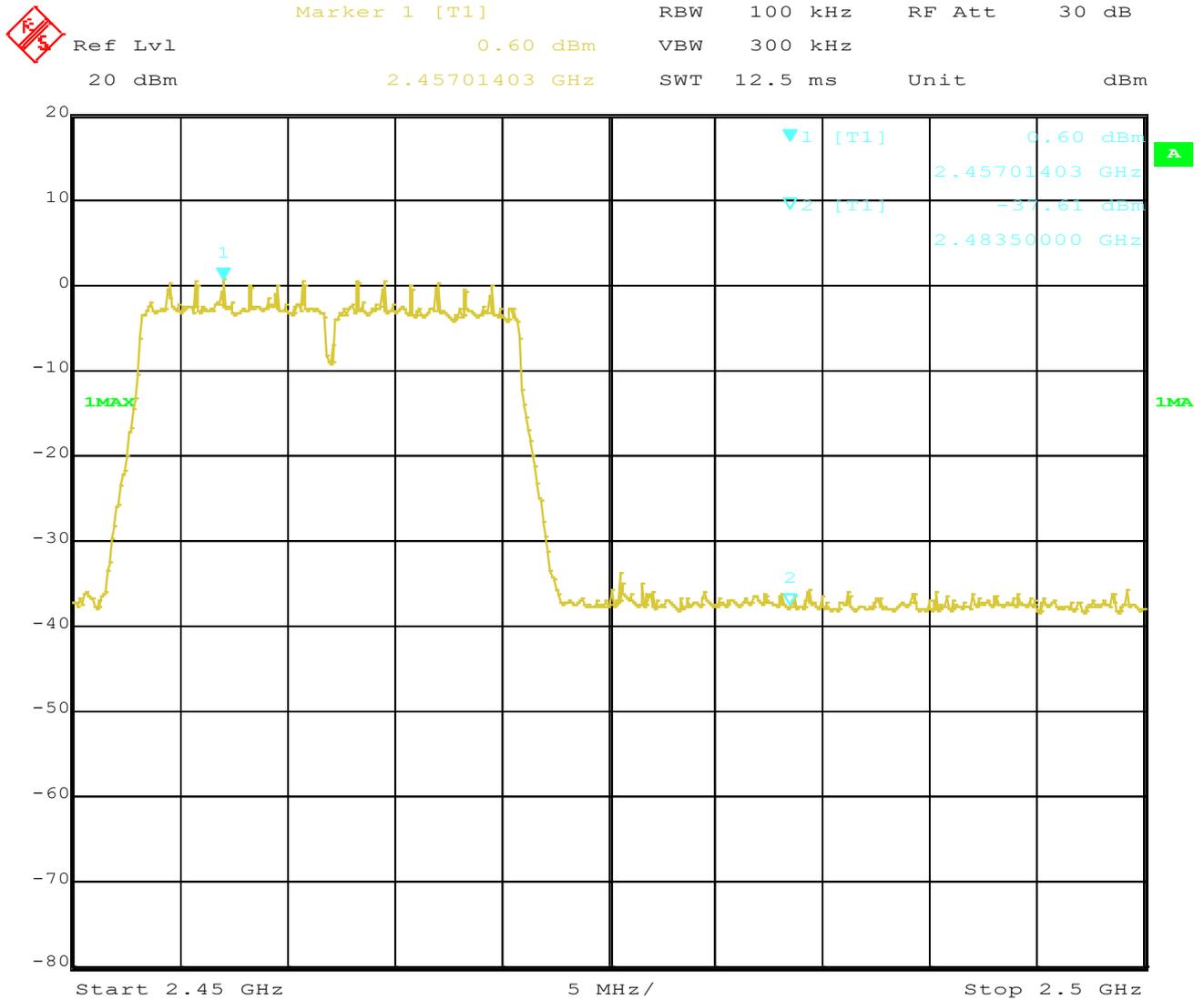
**10.4 Band-edge Measurement**

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EUT	Smart Plotter	Model	ZC2-Lite
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 27.JUL.2021 19:30:52

For 802.11n (HT40) mode  
 CH03 at msc0

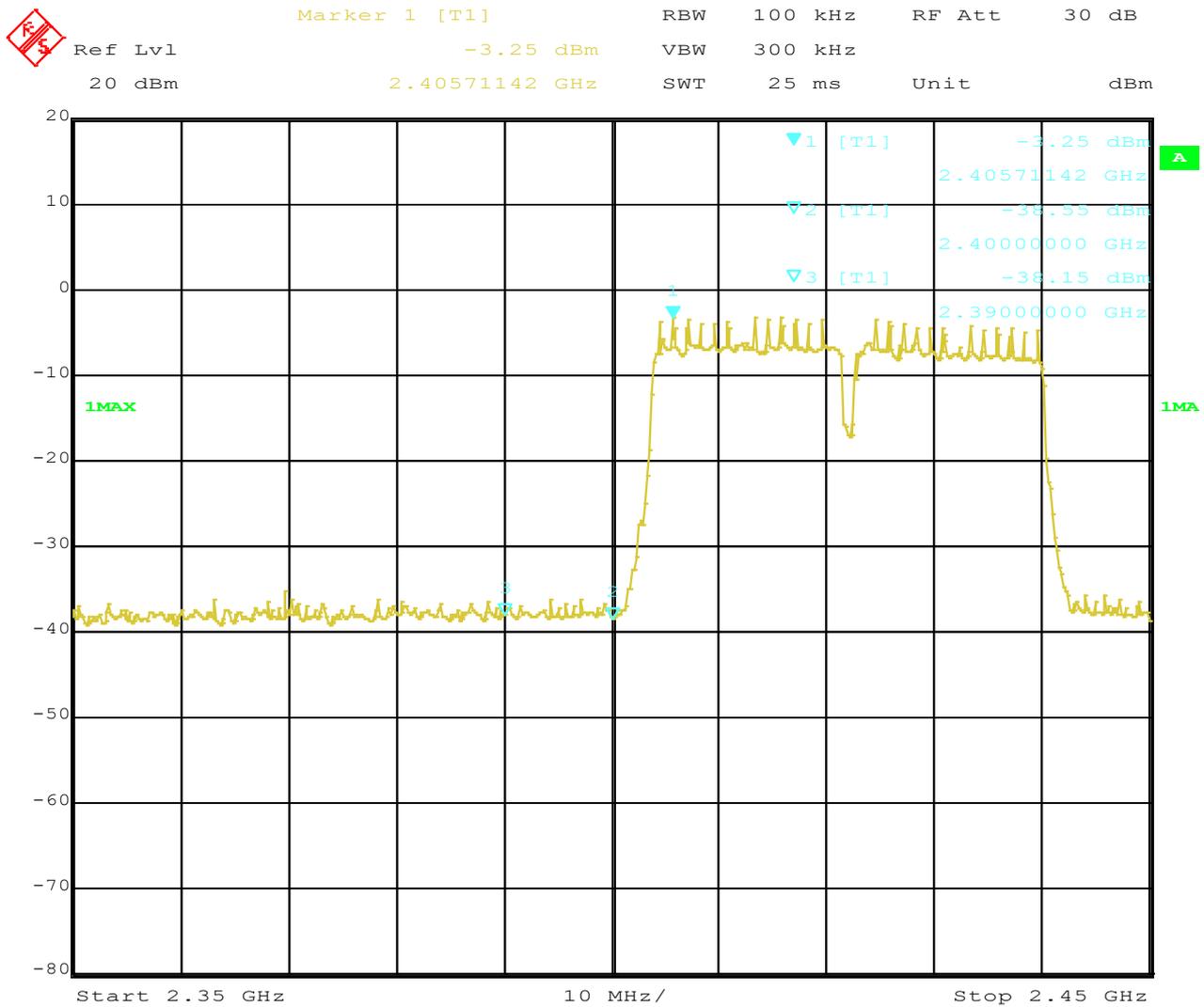
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**10.4 Band-edge and Restricted band Measurement**

EUT	Smart Plotter	Model	ZC2-Lite
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date:            27.JUL.2021    19:21:38

CH09 at msc0

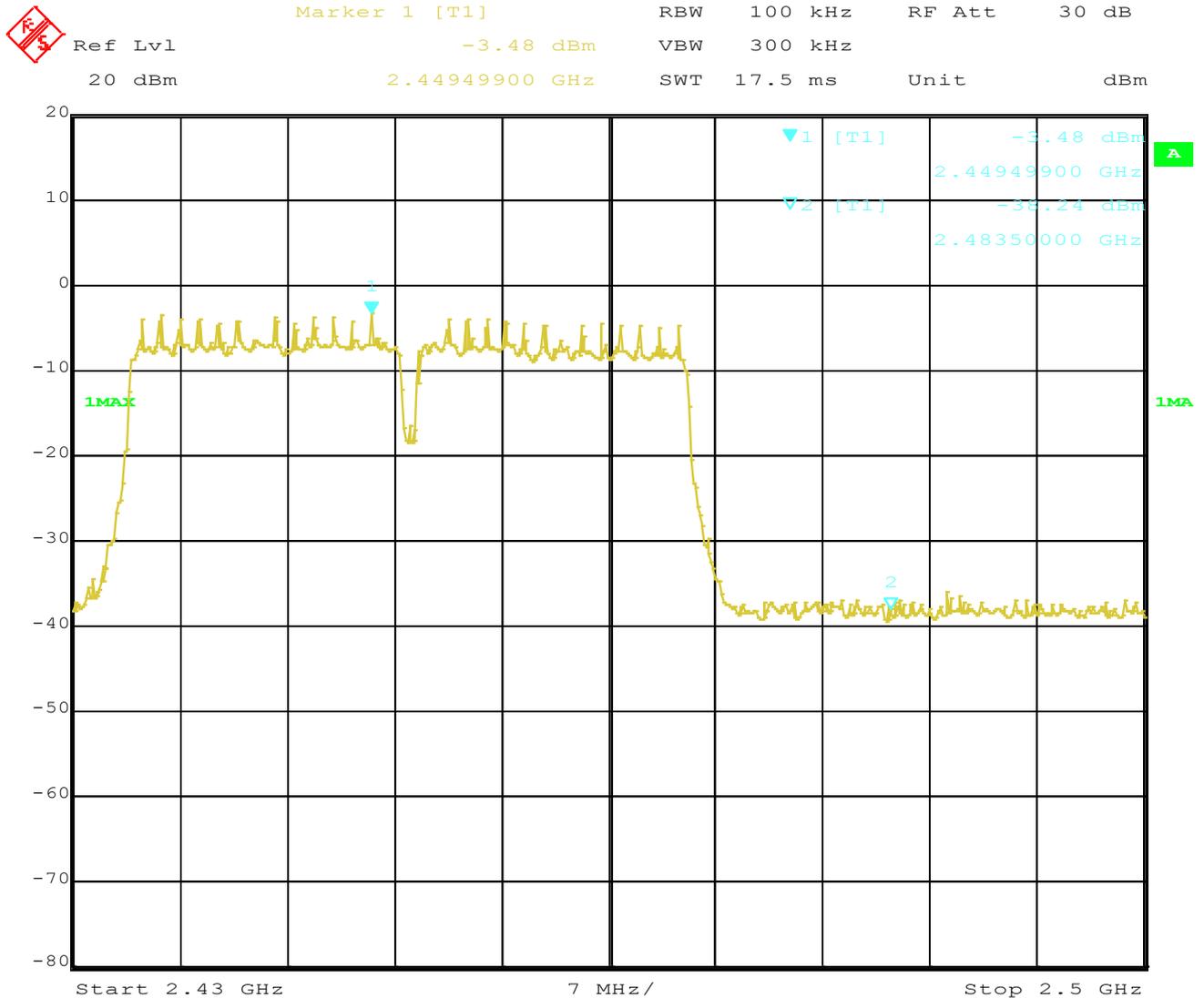
**10.4 Band-edge and Restricted band Measurement**

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EUT	Smart Plotter	Model	ZC2-Lite
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 27.JUL.2021 19:20:55

**10.5 Restricted band Measurement**

EUT	Smart Plotter	Model	ZC2-Lite
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Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, Low Channel, Horizontal				
2390	PK (dB $\mu$ V/m)	48.51	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11b mode, Vertical				
2390	PK (dB $\mu$ V/m)	45.58	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**10.5 Restricted band Measurement**

EUT	Smart Plotter		Model	ZC2-Lite
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, High Channel, Horizontal				
2483.5	PK (dB $\mu$ V/m)	46.85	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11b mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	44.23	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**10.5 Restricted band Measurement**

EUT	Smart Plotter		Model	ZC2-Lite
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Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, Low Channel, Horizontal				
2390	PK (dB $\mu$ V/m)	49.67	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11g mode, Vertical				
2390	PK (dB $\mu$ V/m)	46.52	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**10.5 Restricted band Measurement**

EUT	Smart Plotter		Model	ZC2-Lite
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, High Channel, Horizontal				
2483.5	PK (dB $\mu$ V/m)	48.82	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11g mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	47.09	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**10.5 Restricted band Measurement**

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EUT	Smart Plotter		Model	ZC2-Lite
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT20 mode, Low Channel, Horizontal				
2390	PK (dB $\mu$ V/m)	50.13	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11n HT20 mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	47.96	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

#### 10.5 Restricted band Measurement

EUT	Smart Plotter		Model	ZC2-Lite
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT20 mode, High Channel, Horizontal				
2483.5	PK (dB $\mu$ V/m)	49.70	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11n HT20 mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	48.12	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

#### 10.5 Restricted band Measurement

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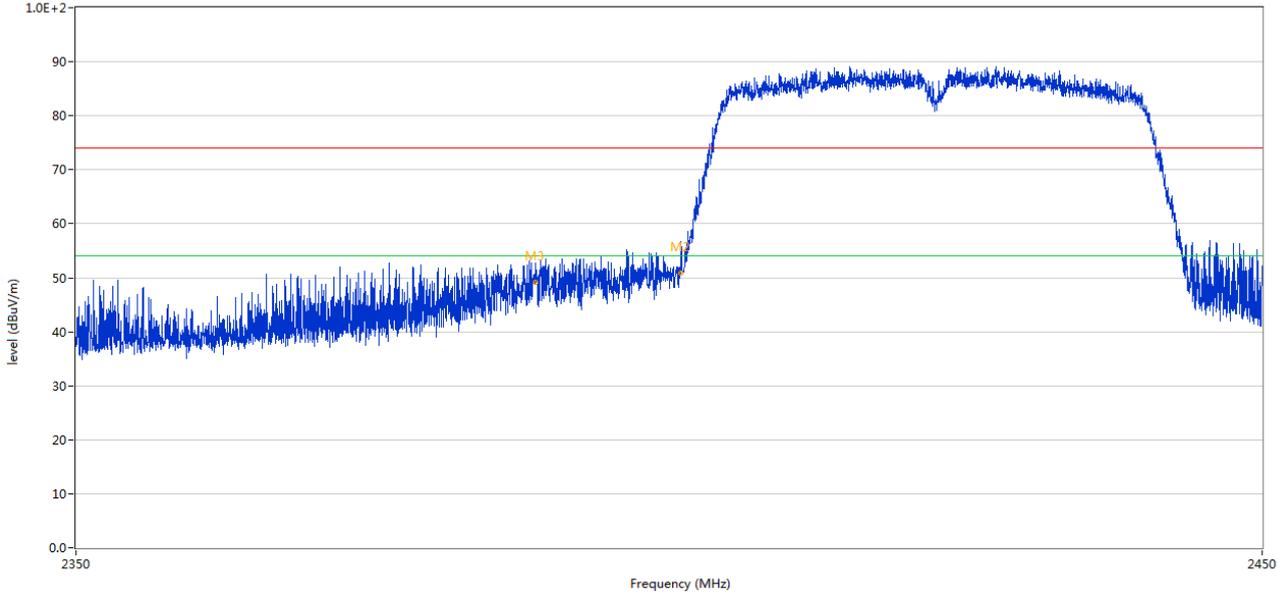
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EUT	Smart Plotter		Model	ZC2-Lite
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, Low Channel, Horizontal				
2390	PK (dB $\mu$ V/m)	52.73	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11n HT40 mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	49.86	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
3	2390.265	52.73	-3.52	74.0	-21.27	Peak	304.00	100	Horizontal	Pass

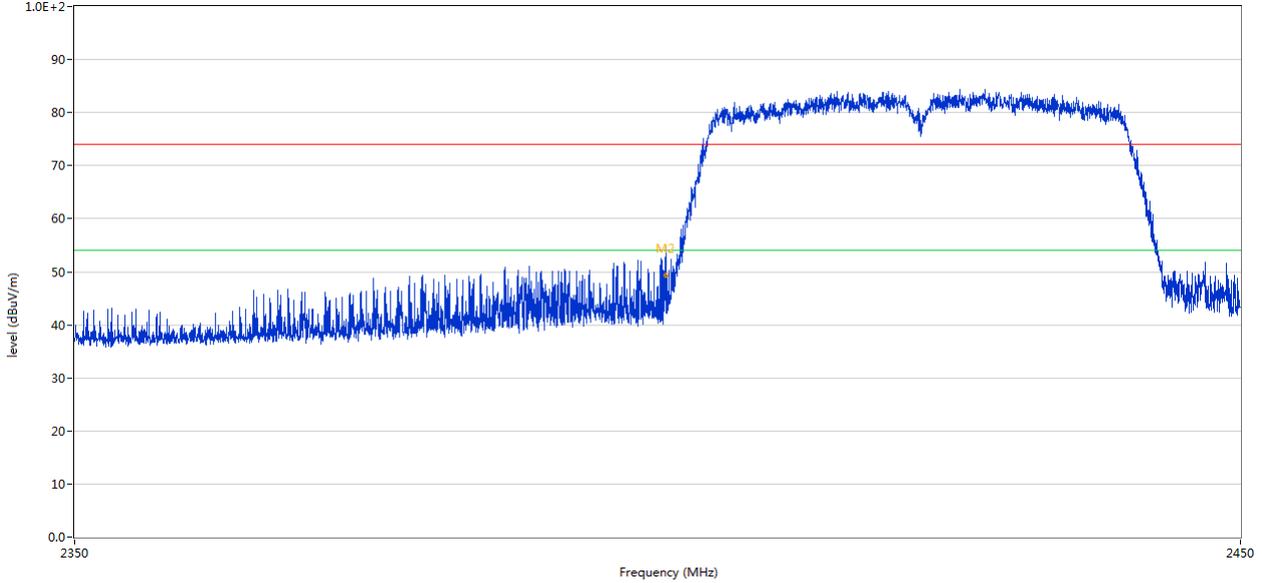
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FCC Part 15C Class B 1GHz-18GHz -2  
 1.0E+2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
3	2390.515	49.86	-3.52	74.0	-24.14	Peak	345.00	100	Vertical	Pass

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

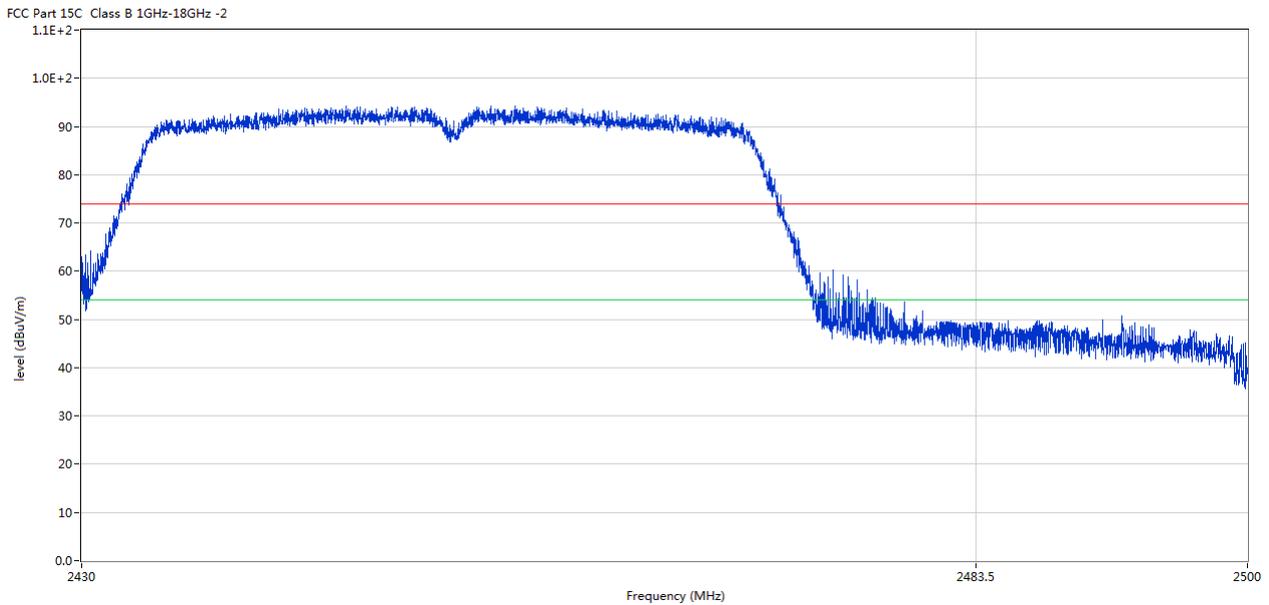
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**10.5 Restricted band Measurement**

EUT	Smart Plotter		Model	ZC2-Lite
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, High Channel, Horizontal				
2483.5	PK (dBμV/m)	50.38	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11n HT40 mode, High Channel, Vertical				
2483.5	PK (dBμV/m)	48.72	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

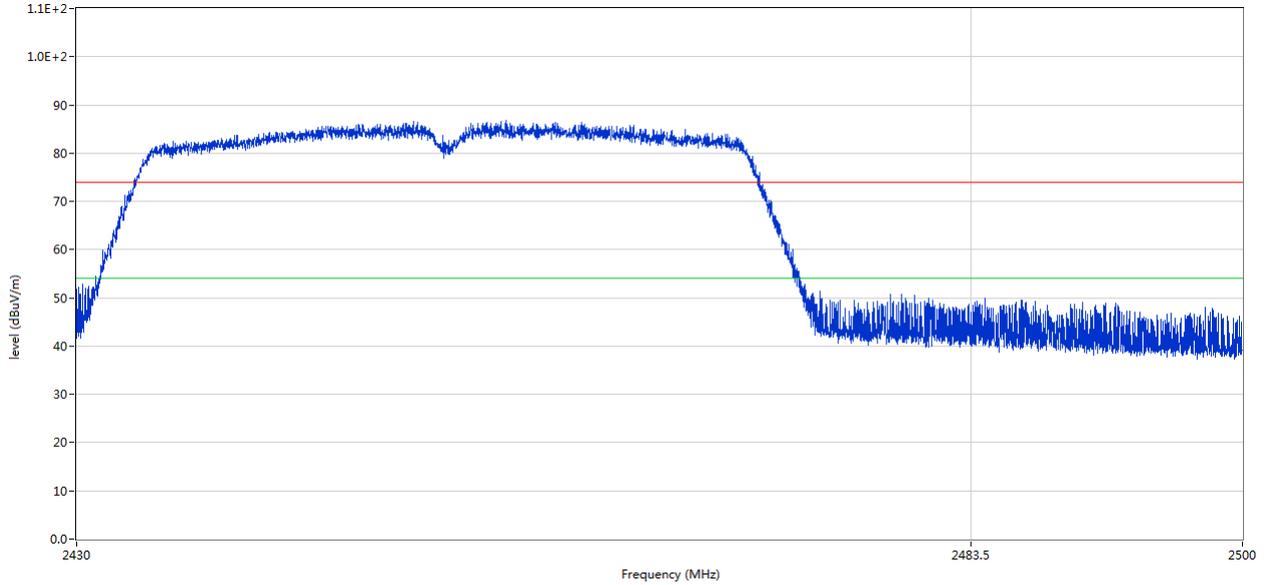


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2483.467	50.38	-3.57	74.0	-23.62	Peak	291.00	100	Horizontal	Pass

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2483.459	48.72	-3.57	74.0	-25.28	Peak	352.00	100	Vertical	Pass

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## **11.0 Antenna Requirement**

### **11.1 Standard Applicable**

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

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

### **11.2 Antenna Connected construction**

PCB antenna used. The gain of 2.5dBi.

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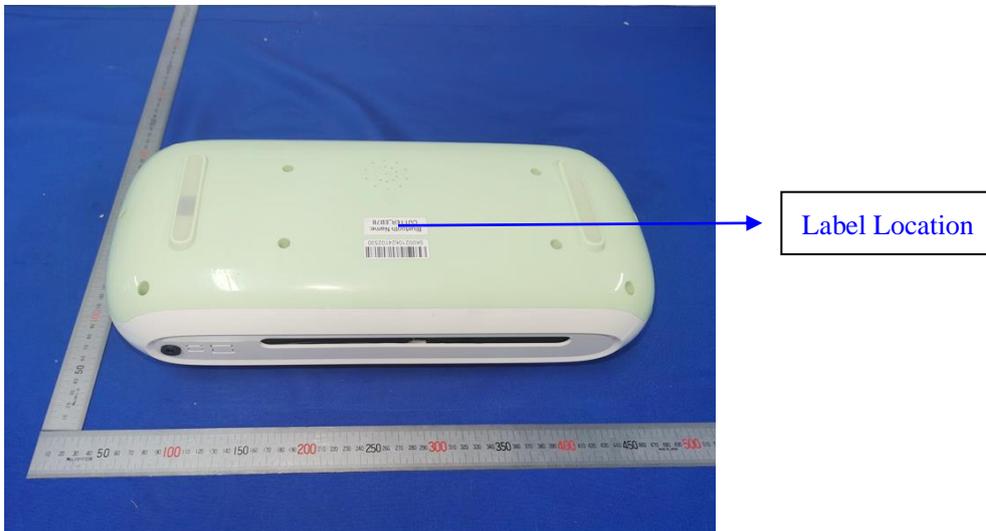
## 12.0 FCC ID Label

### FCC ID: 2AUA9-RQZY011

**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:



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

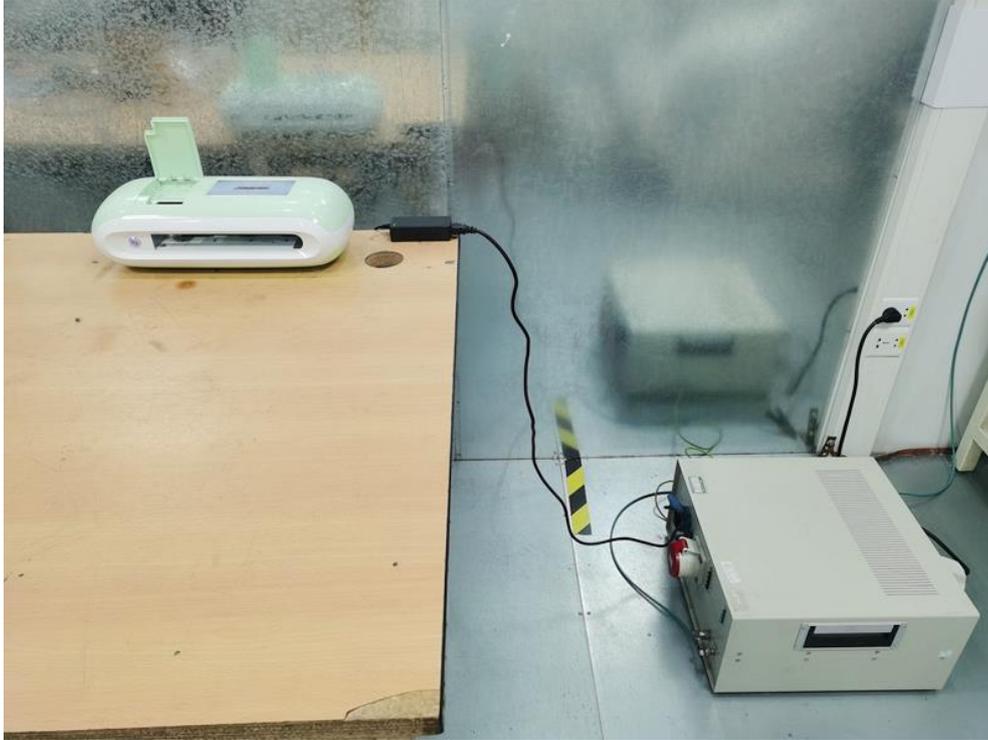
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### 13.0 Photo of testing

Conducted Emission Test Setup:



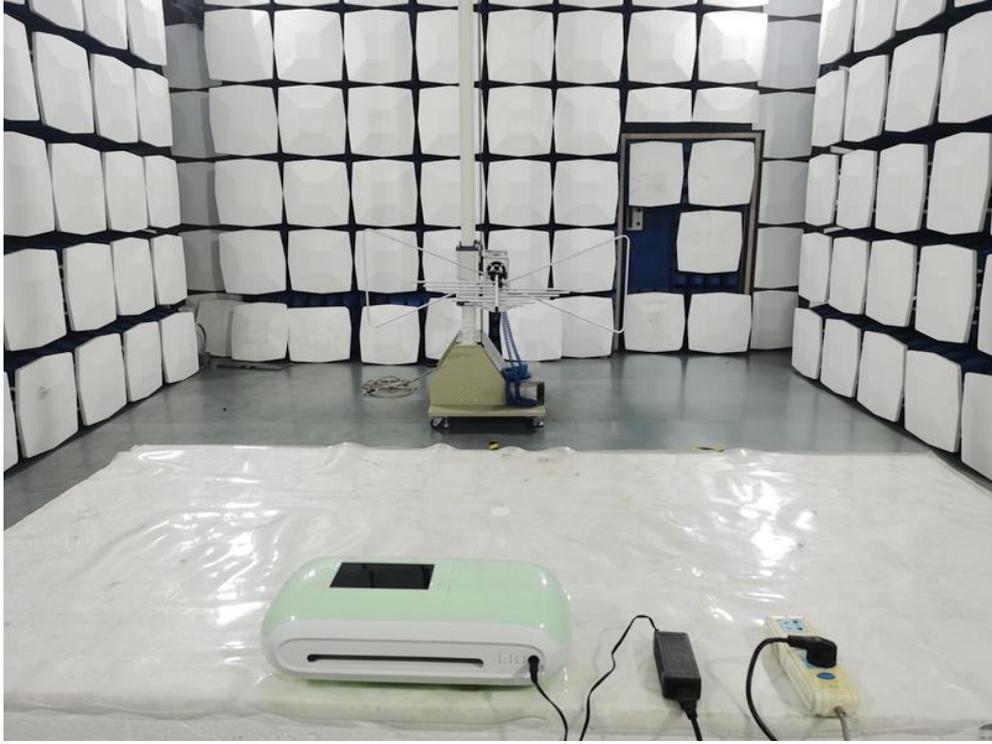
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Radiated Emission Test Setup:



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### Photographs – EUT

Outside View



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Outside View



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Outside View



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Outside View



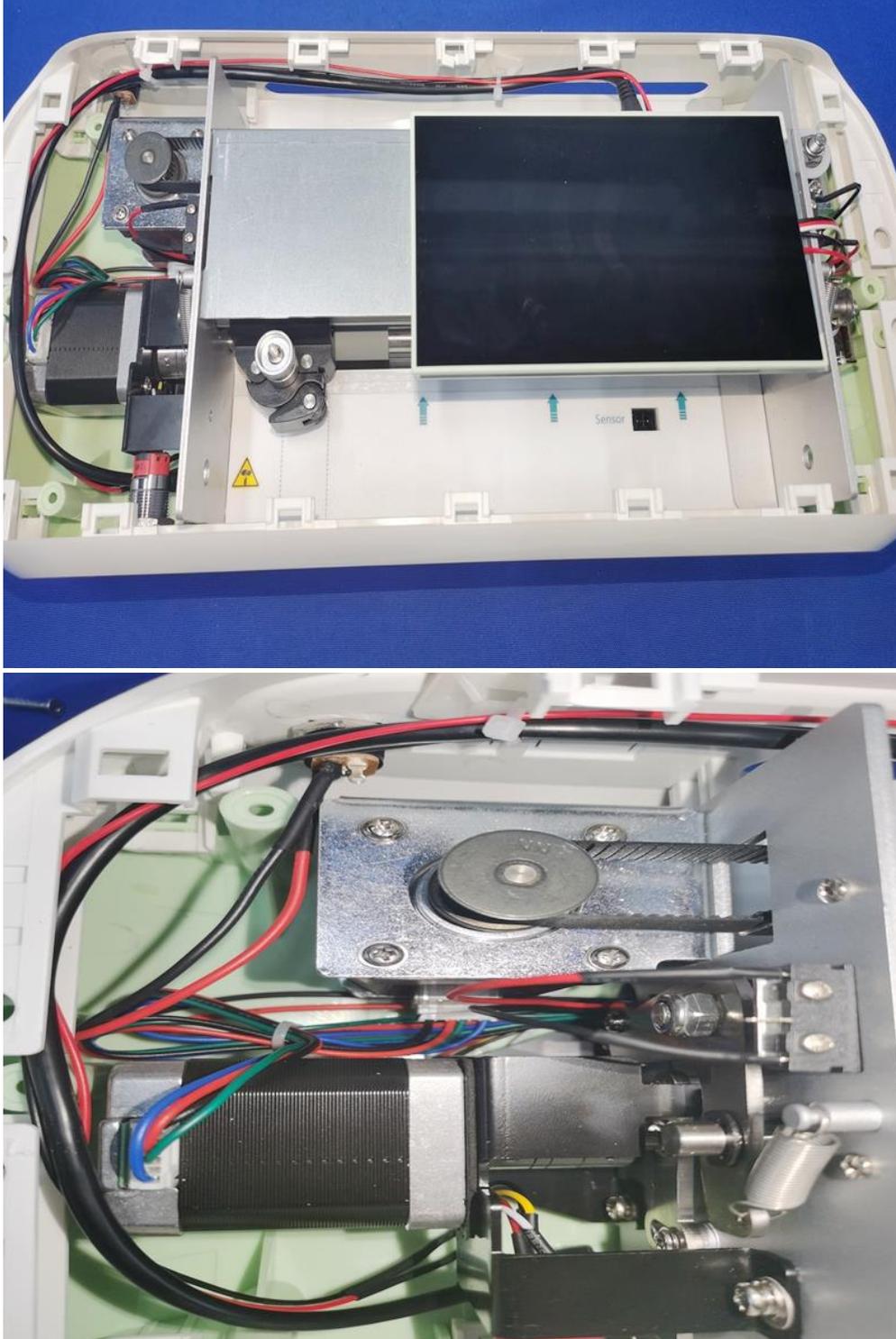
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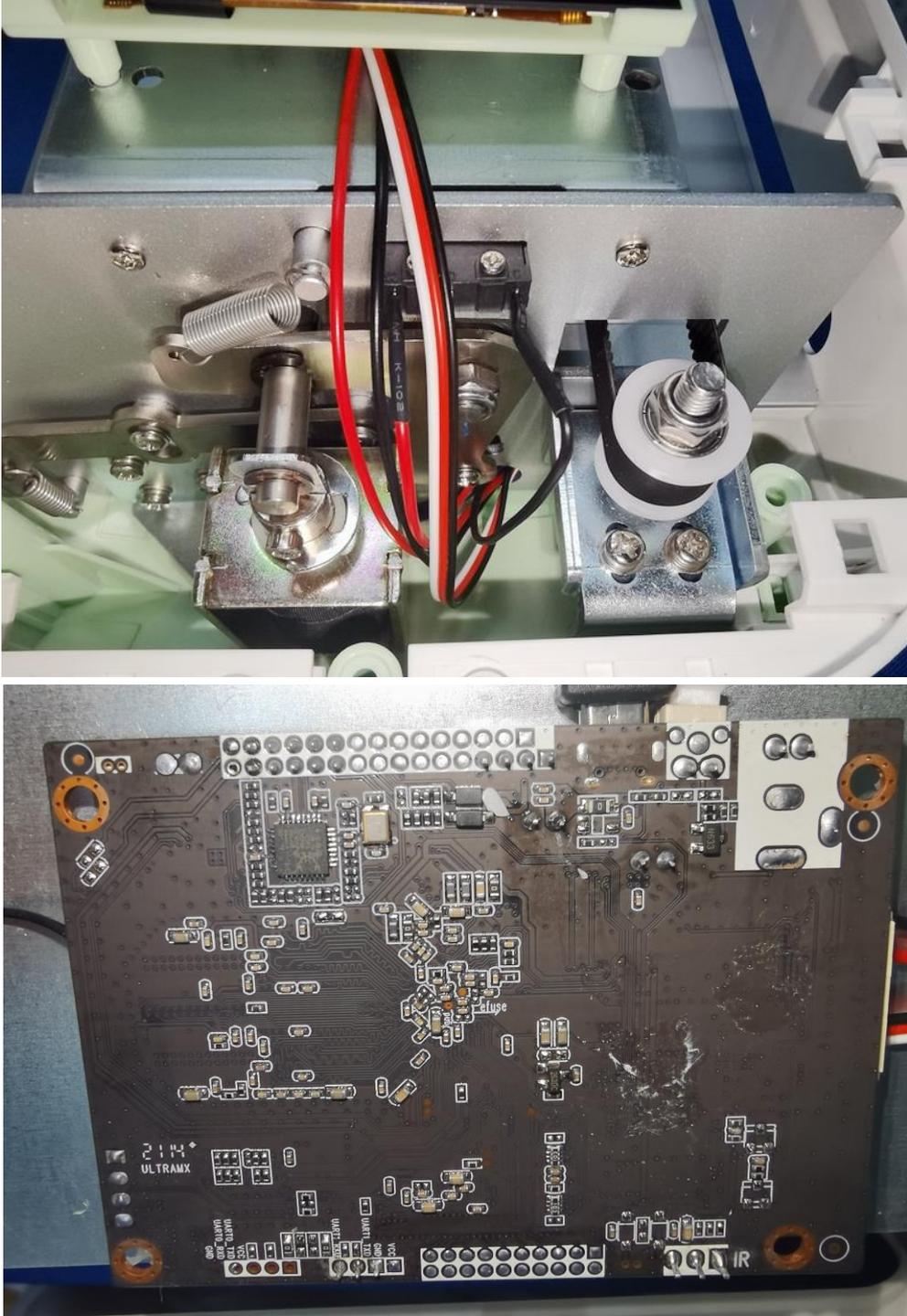


Inside view



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Inside view

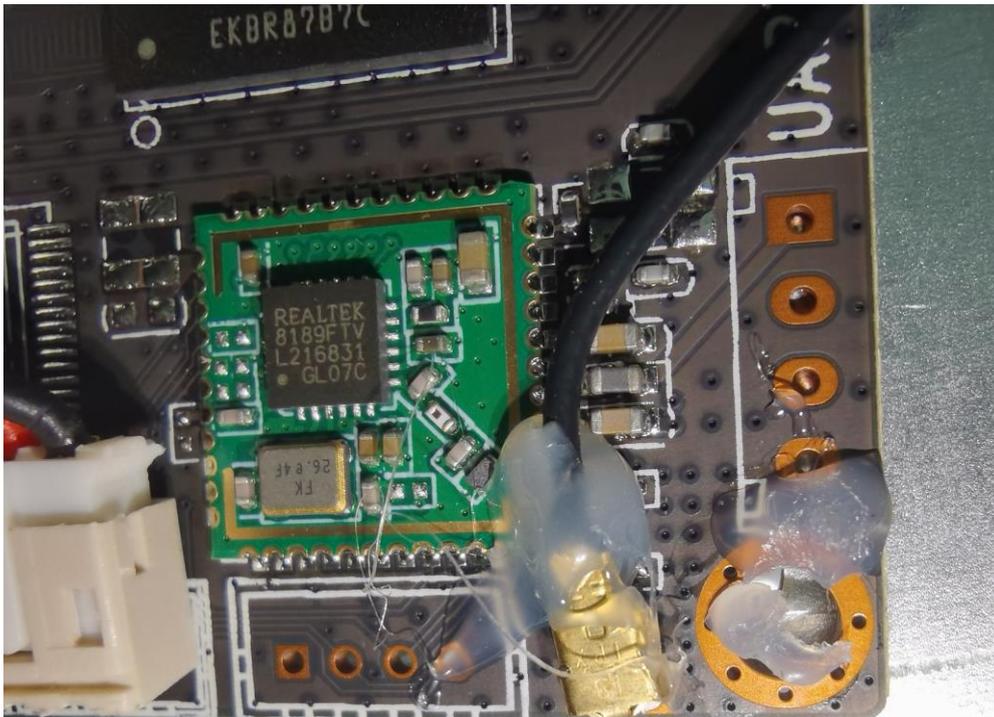
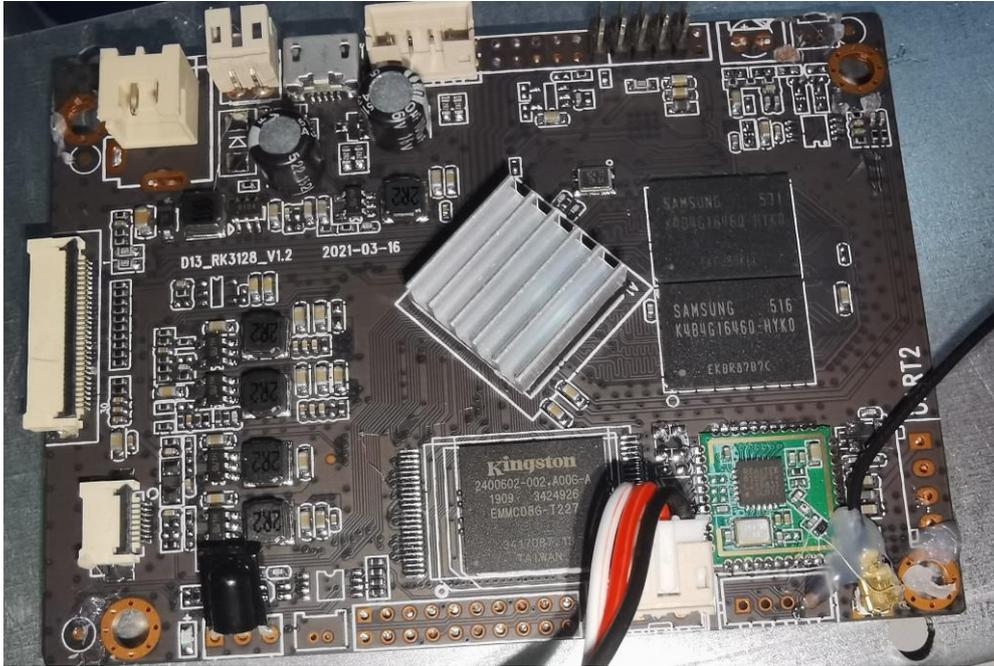


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Inside view



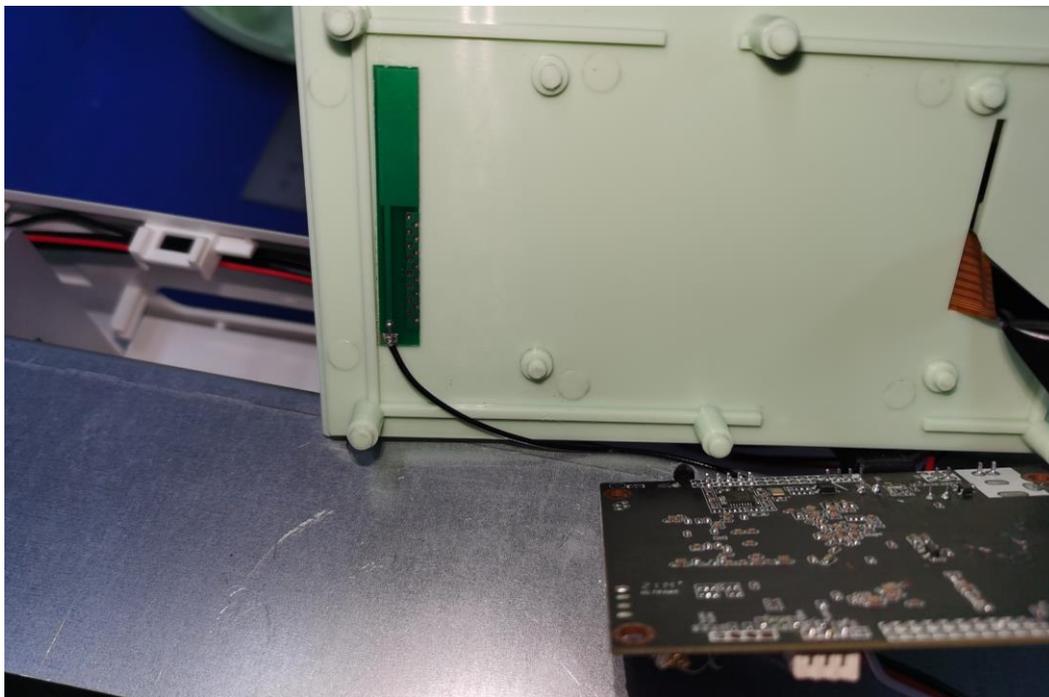
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Inside view

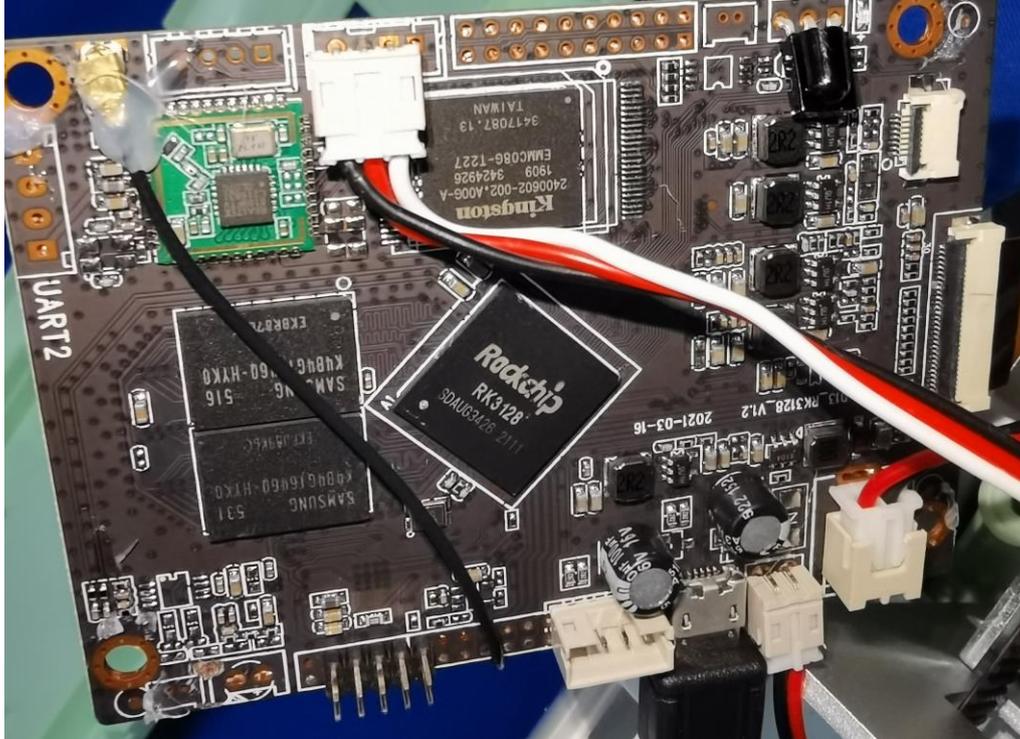


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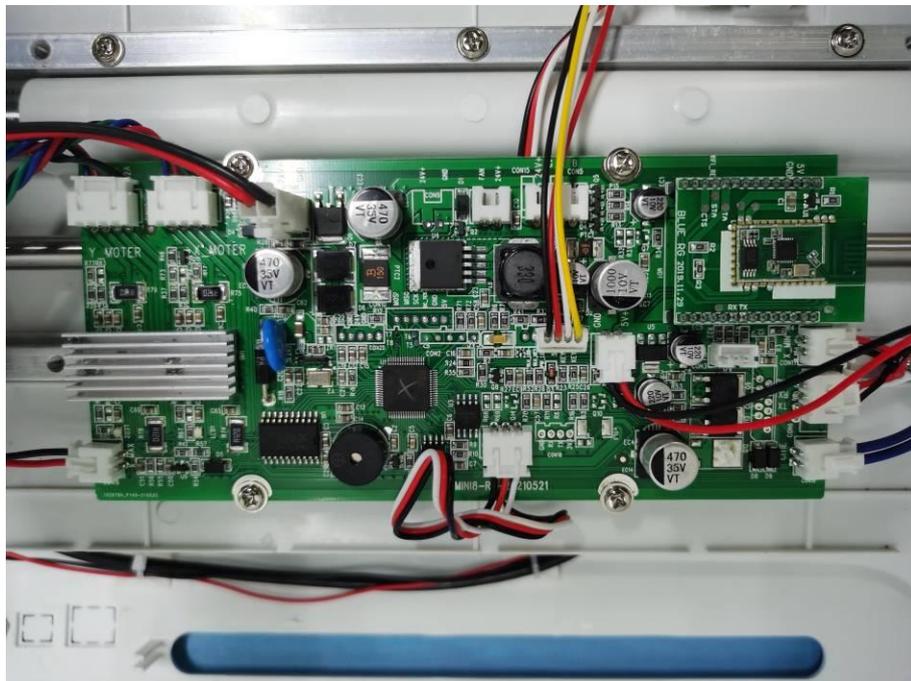
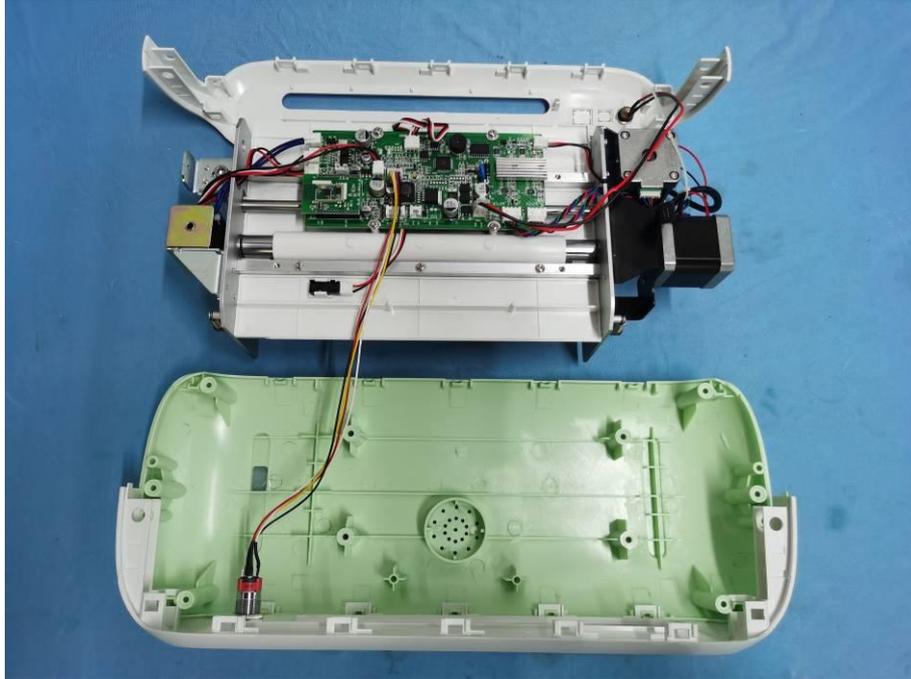


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Inside view



**End of the report**

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