



Report No.: TW2010168-01E  
File Reference No.: 2020-12-03

Applicant: MACVON LLC

Product: Macvon Reflection

Model No.: Model R, Model R-01, Model R-02, Model R-03, Model R-04, Model R-05, Model R-06

Trademark: Macvon

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

Jack Chung

Manager

Dated: December 03, 2020

**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: MACVON LLC  
Address: 101 Morgan Lane Suite 302, Plainsboro, NJ, US 08536  
Telephone: +1(201)637-0158  
Fax: --

### 1.3 Description of EUT

Product: Macvon Reflection  
Manufacturer: MACVON LLC  
Address: 101 Morgan Lane Suite 302, Plainsboro, NJ, US 08536  
Brand Name: Macvon  
Model Number: Model R  
Additional Model Number: Model R-01, Model R-02, Model R-03, Model R-04, Model R-05, Model R-06

Type of Modulation	IEEE 802.11b : DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20) : OFDM(64QAM, 16QAM, QPSK, BPSK)
Frequency range	IEEE 802.11b/g/n (HT20) : 2412-2462MHz
Channel Spacing	5MHz for IEEE 802.11b/g/n HT20
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: up to 72.2Mbps
Frequency Selection	By software
Channel Number	IEEE 802.11b/g/n (HT20) : 11 Channels;
Antenna:	Integral antenna used. The gain of the antennas is 2.0dBi (get from the antenna specification provided the applicant)

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Input Voltage: 110-240V~, 50/60Hz, 0.3A, 75W

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2020-10-26 to 2020-12-03

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

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

1.7 Test Engineer

*Terry Tang*

The sample tested by \_\_\_\_\_

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2019-06-21	2021-06-20
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2020-08-22	2021-08-21
Power sensor	Anritsu	MA2491A	32263	2020-08-22	2021-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic	--	--	N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2020-01-16	2021-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2020-06-23	2021-06-22
RF Cable	Zhengdi	7m	--	2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2020-01-06	2021-01-07

## 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. 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: 6.5Mbps (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

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

#### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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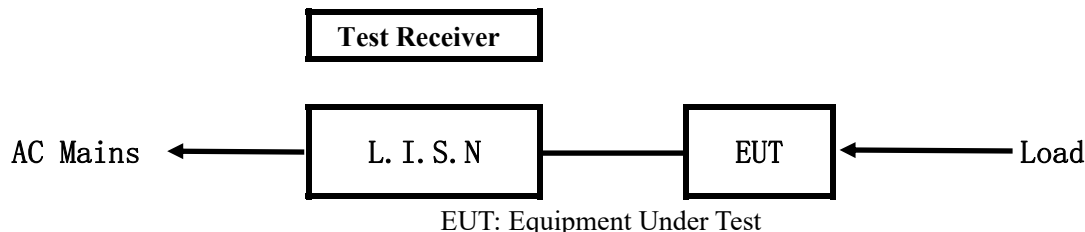
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## 5.0 Power Line Conducted Emission Test

### 5.1 Schematics of the test

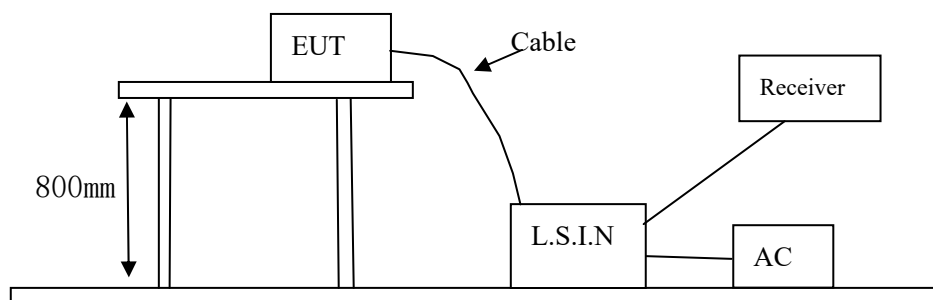


### 5.2 Test Method and test Procedure

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
Macvon Reflection	MACVON LLC	Model R, Model R-01, Model R-02, Model R-03, Model R-04, Model R-05, Model R-06	2AX7UX0278

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

#### C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

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#### 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)	Class B 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	50.0

- 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**

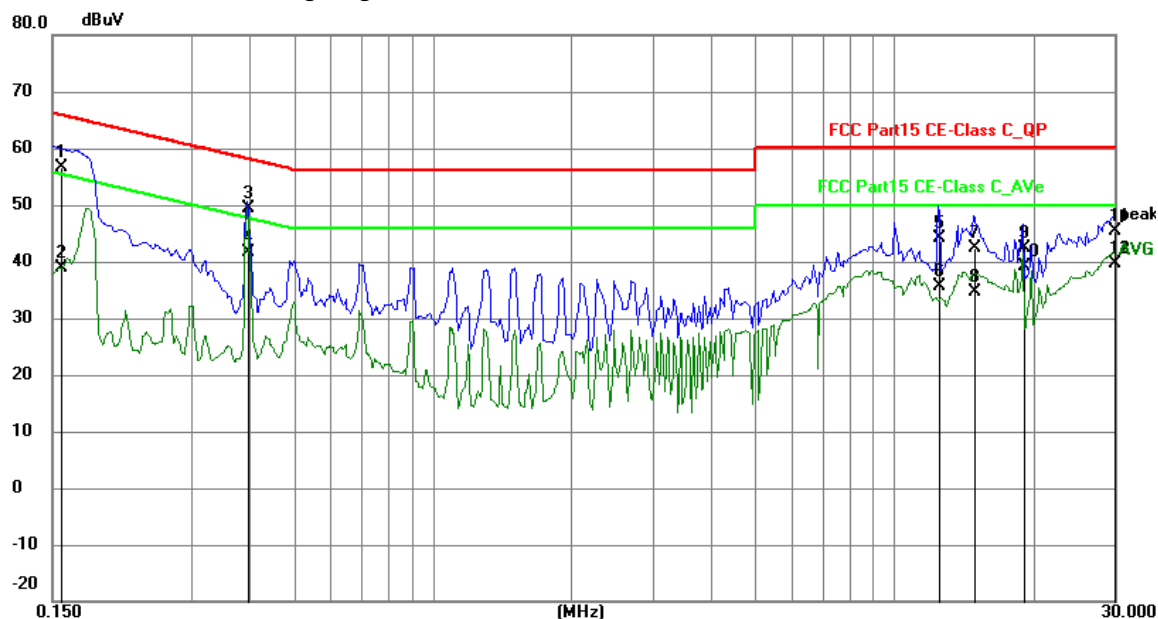
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep WIFI Transmitting**

**Equipment Level: Class B**

**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	0.1565	46.91	9.78	56.69	65.65	-8.96	QP	P
2	0.1565	29.15	9.78	38.93	55.65	-16.72	AVG	P
3	0.3957	39.74	9.76	49.50	57.94	-8.44	QP	P
4	0.3957	31.81	9.76	41.57	47.94	-6.37	AVG	P
5	12.5004	33.80	10.27	44.07	60.00	-15.93	QP	P
6	12.5004	25.28	10.27	35.55	50.00	-14.45	AVG	P
7	14.9068	31.94	10.38	42.32	60.00	-17.68	QP	P
8	14.9068	24.33	10.38	34.71	50.00	-15.29	AVG	P
9	19.0758	31.68	10.62	42.30	60.00	-17.70	QP	P
10	19.0758	28.63	10.62	39.25	50.00	-10.75	AVG	P
11	29.9880	33.96	11.30	45.26	60.00	-14.74	QP	P
12	29.9880	28.39	11.30	39.69	50.00	-10.31	AVG	P

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

**EUT Operating Environment**

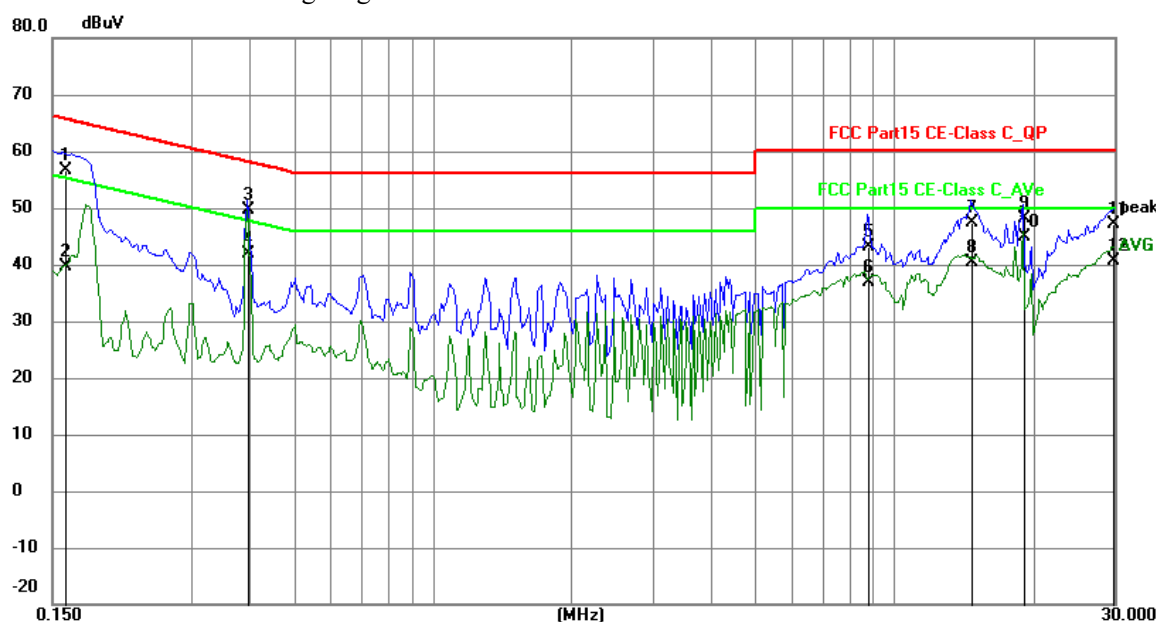
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep WIFI Transmitting**

**Equipment Level: Class B**

**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	0.1598	46.93	9.78	56.71	65.47	-8.76	QP	P
2	0.1598	29.79	9.78	39.57	55.47	-15.90	AVG	P
3	0.3957	39.90	9.76	49.66	57.94	-8.28	QP	P
4	0.3957	32.04	9.76	41.80	47.94	-6.14	AVG	P
5	8.7524	32.97	10.10	43.07	60.00	-16.93	QP	P
6	8.7524	26.67	10.10	36.77	50.00	-13.23	AVG	P
7	14.6766	37.04	10.37	47.41	60.00	-12.59	QP	P
8	14.6766	30.08	10.37	40.45	50.00	-9.55	AVG	P
9	19.0719	37.44	10.62	48.06	60.00	-11.94	QP	P
10	19.0719	34.31	10.62	44.93	50.00	-5.07	AVG	P
11	29.6838	35.95	11.28	47.23	60.00	-12.77	QP	P
12	29.6838	29.25	11.28	40.53	50.00	-9.47	AVG	P

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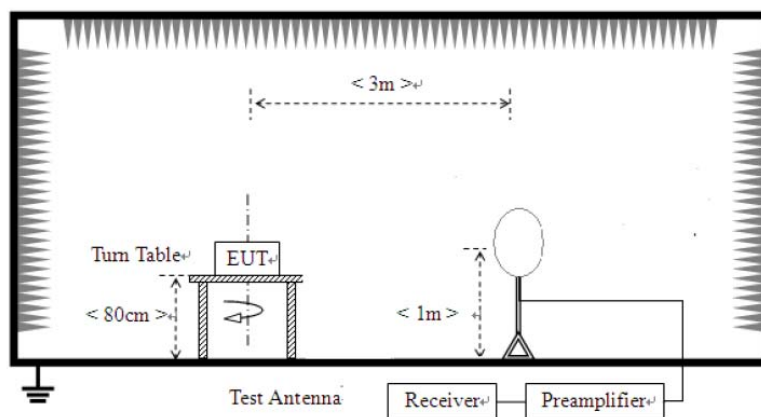
## 6 Radiated Emission Test

### 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



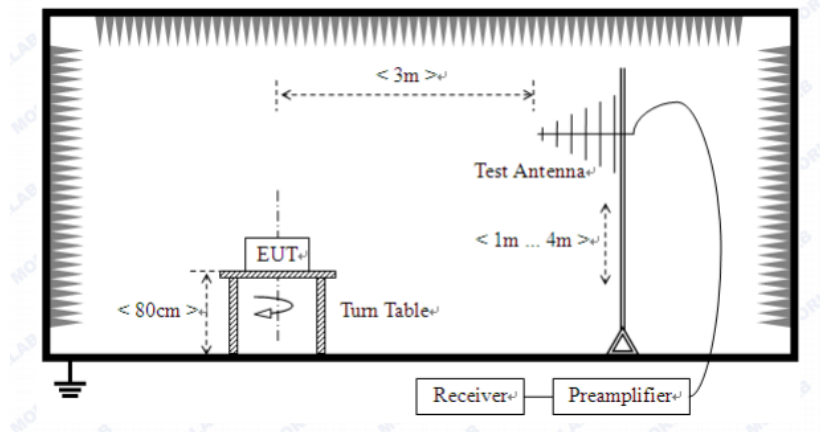
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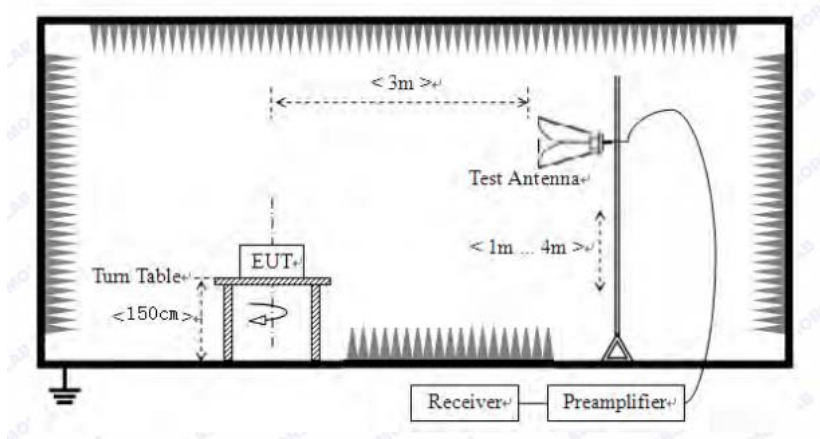
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For radiated emissions from 30MHz to 1GHz



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:

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

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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. **All modulations have been tested only Worse case were recorded in the test report. 802.11b was the worst case.**

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## Test result

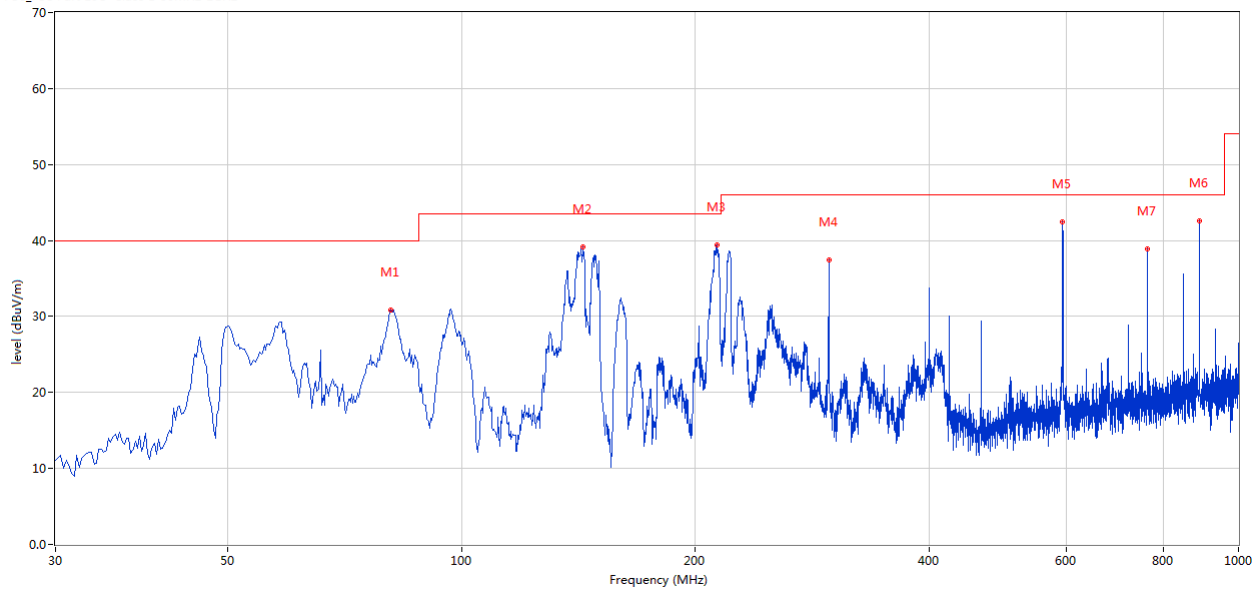
### General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: **Keep Transmitting**

Results: **Pass**

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	81.155	30.85	-17.26	40.0	-9.15	Peak	1.00	100	Horizontal	Pass
2	143.462	39.16	-17.18	43.5	-4.34	Peak	1.00	100	Horizontal	Pass
3	213.042	39.37	-13.66	43.5	-4.13	Peak	0.00	100	Horizontal	Pass
4	296.926	37.44	-11.07	46.0	-8.56	Peak	0.00	100	Horizontal	Pass
5	593.914	42.41	-5.25	46.0	-3.59	Peak	1.00	100	Horizontal	Pass
6	891.145	42.53	-1.92	46.0	-3.47	Peak	1.00	100	Horizontal	Pass
7	763.622	38.95	-3.27	46.0	-7.05	Peak	1.00	100	Horizontal	Pass

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## Test result

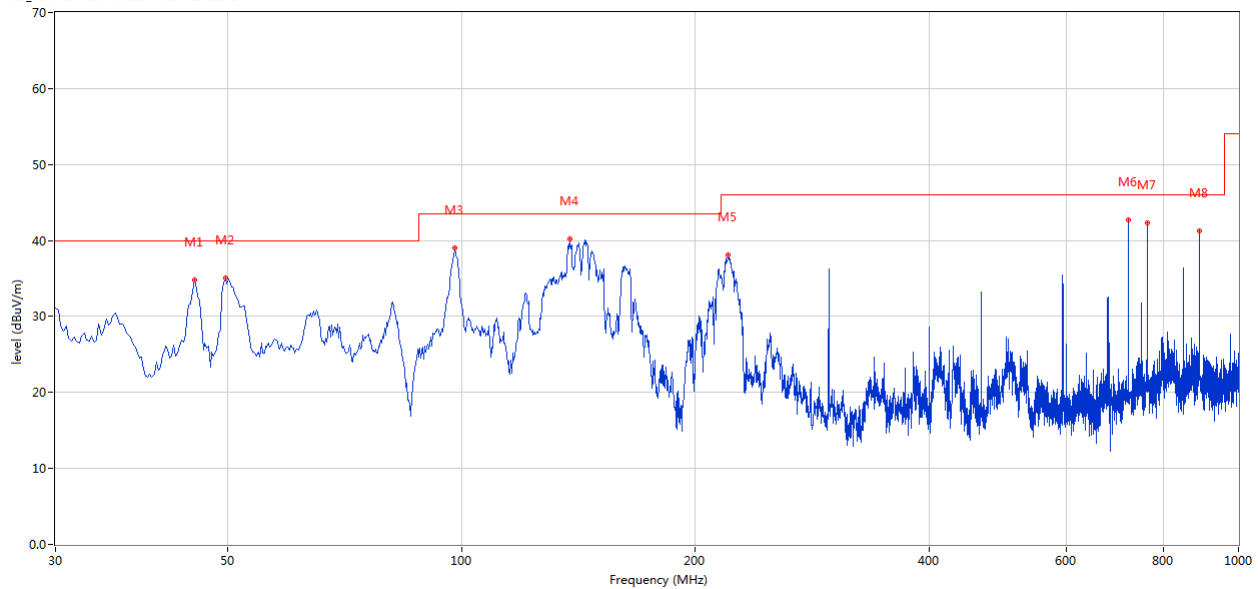
### General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: **Keep Transmitting**

Results: **Pass**

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	45.274	34.78	-11.40	40.0	-5.22	Peak	1.00	100	Vertical	Pass
2	49.638	35.10	-11.32	40.0	-4.90	Peak	1.00	100	Vertical	Pass
3	98.125	38.99	-13.73	43.5	-4.51	Peak	2.00	100	Vertical	Pass
4	137.643	40.21	-17.25	43.5	-3.29	Peak	0.00	100	Vertical	Pass
5	220.315	38.05	-13.31	46.0	-7.95	Peak	3.00	100	Vertical	Pass
6	721.437	42.74	-3.93	46.0	-3.26	Peak	0.00	100	Vertical	Pass
7	763.622	42.25	-3.27	46.0	-3.75	Peak	0.00	100	Vertical	Pass
8	890.902	41.27	-1.91	46.0	-4.73	Peak	3.00	100	Vertical	Pass

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

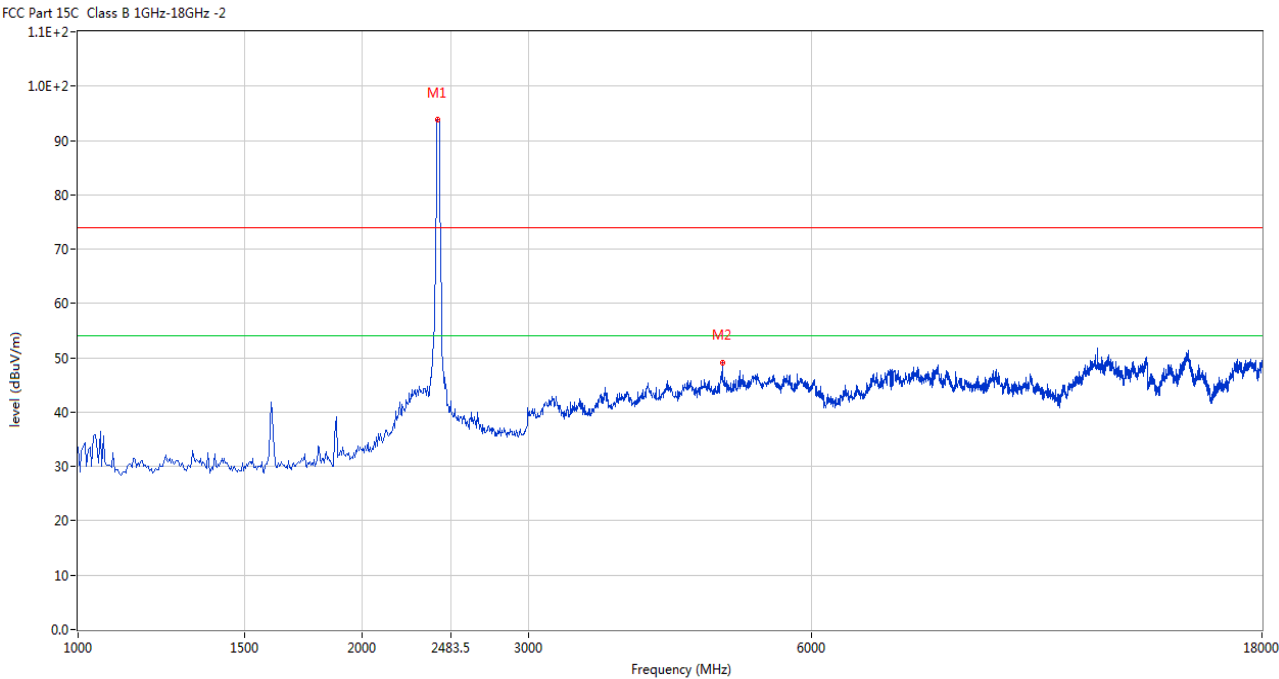
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Please refer to the following test plots for details:

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

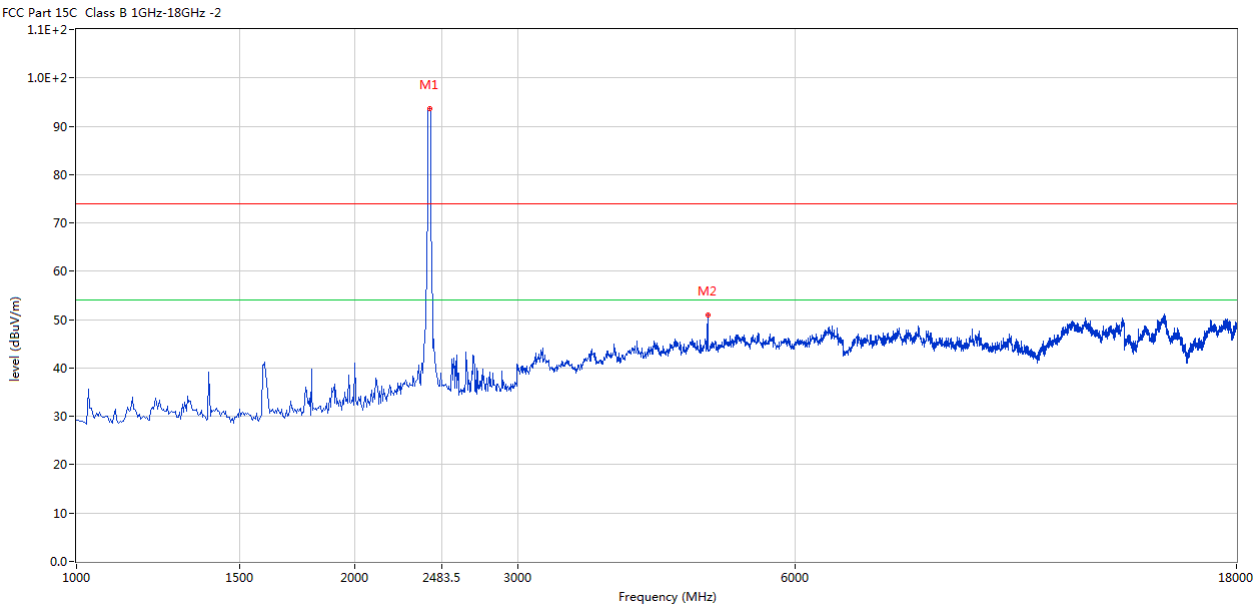


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4820.750	49.16	3.14	54.0	-4.84	Peak	76.00	100	Horizontal	Pass

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CH01 for 11b at 1Mbps: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4820.750	50.98	3.14	54.0	-3.02	Peak	209.00	100	Vertical	Pass

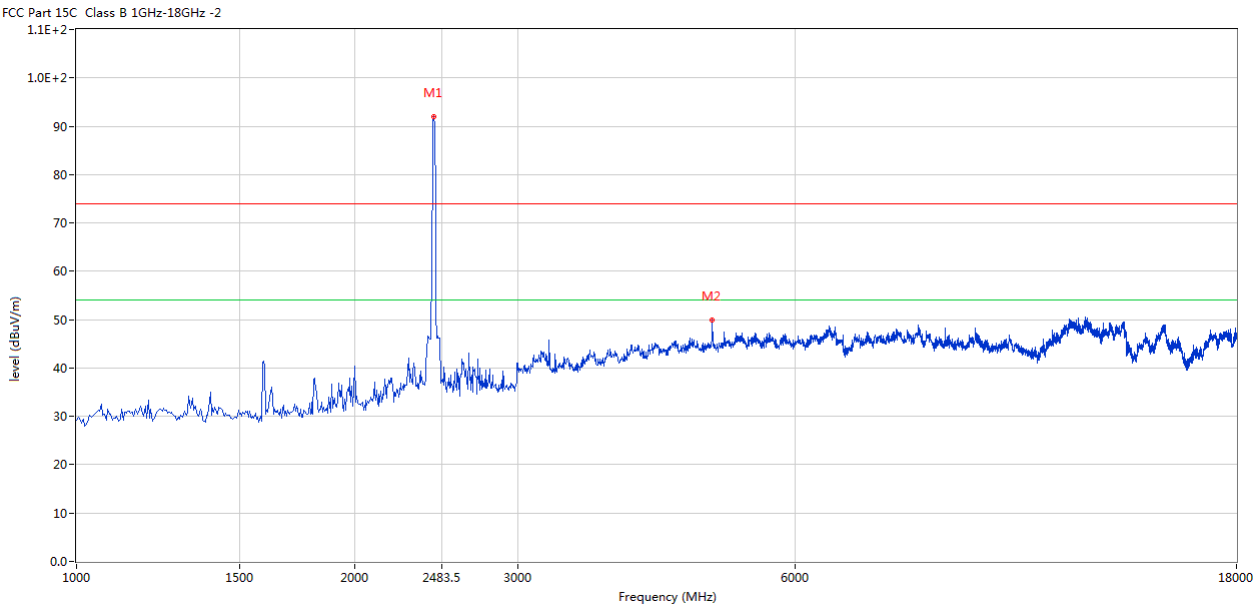
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CH06 for 11b at 1Mbps: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4871.750	50.60	3.19	54.0	-3.40	Peak	26.00	100	Vertical	Pass

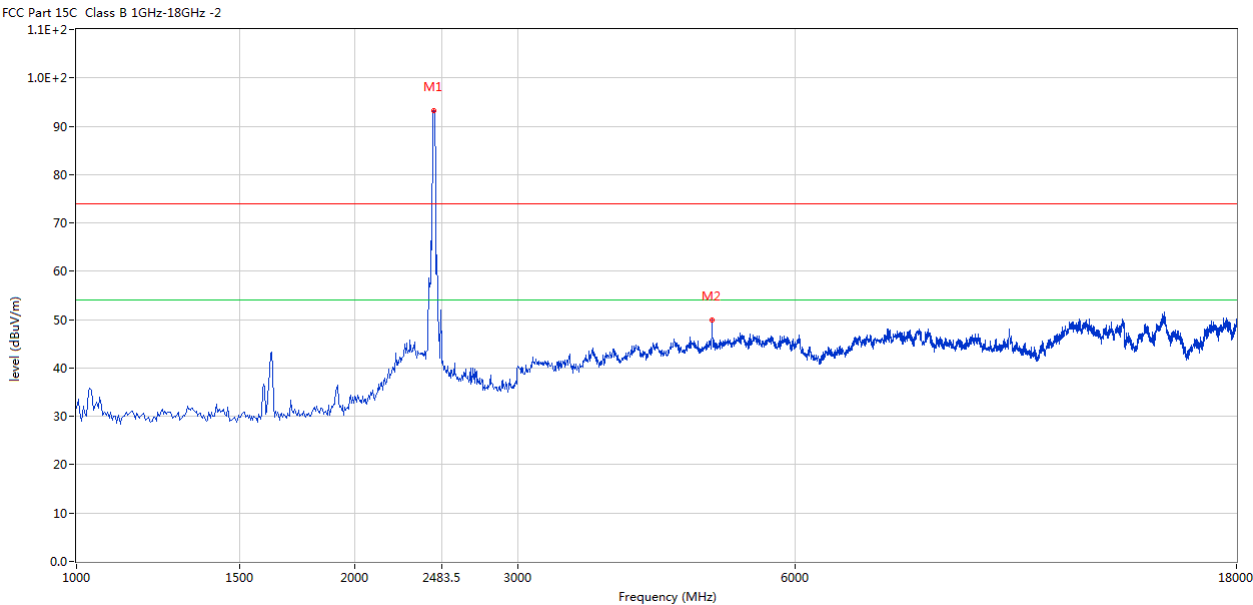
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CH06 for 11b at 1Mbps: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4871.750	49.87	3.19	54.0	-4.13	Peak	68.00	100	Horizontal	Pass

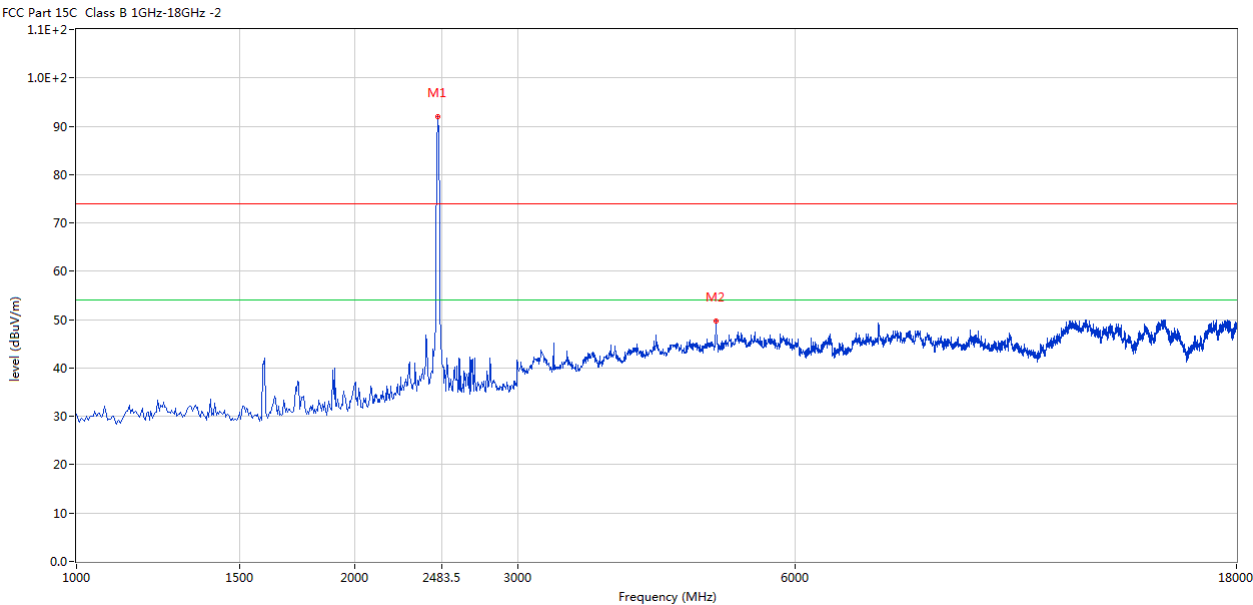
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CH11 for 11b at 1Mbps: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4922.750	49.77	3.27	54.0	-4.23	Peak	29.00	100	Vertical	Pass

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

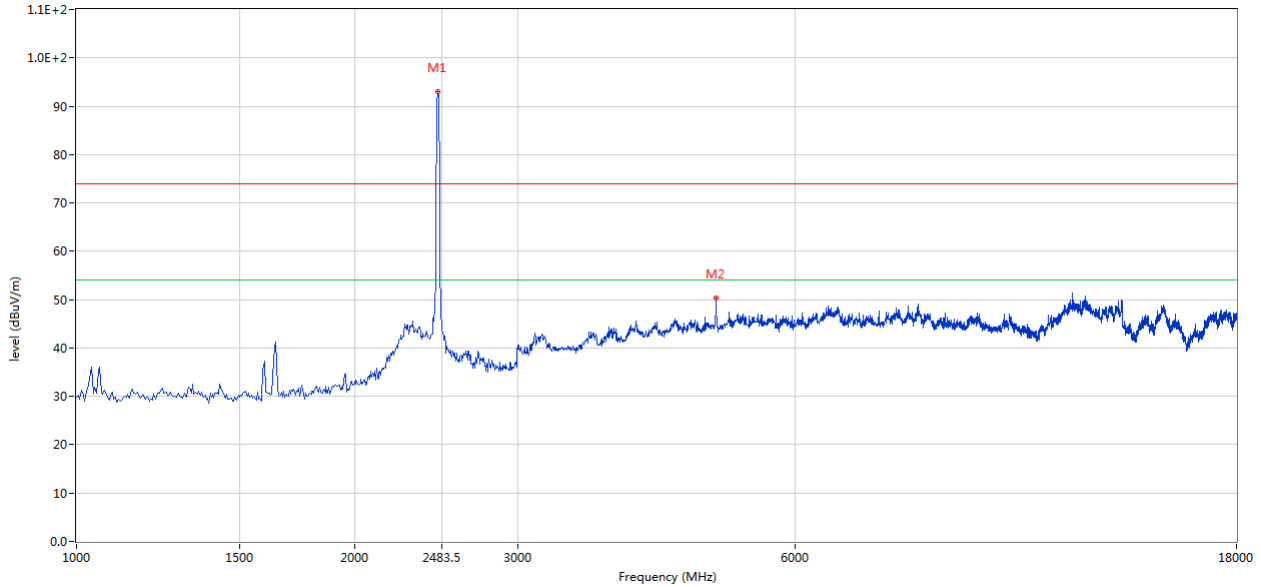
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### CH11 for 11b at 1Mbps: Horizontal

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	4922.750	49.43	3.27	54.0	-4.57	Peak	251.00	100	Horizontal	Pass

Note: 1. Result Level = Reading + Factor

2. Factor= AF + Cable Loss- Preamp

3. Margin = Result- Limit

4. For radiated Emissions above 18GHz and below 30MHz, it is only the floor noise.

5. The peak value less than the AV limit, no necessary to take down the AV measurement result.

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

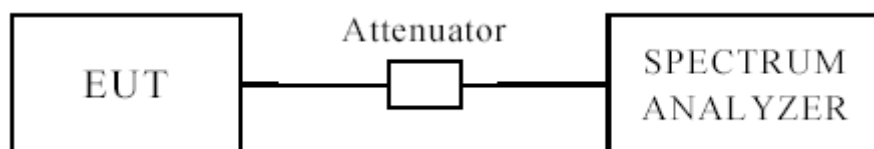
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## 7.0 6dB Bandwidth Measurement

### 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

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### 6dB Occupied Bandwidth

EUT	Macvon Reflection		Model	Model R	
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	9.32	0.5	Pass
6	2437	11	9.32	0.5	Pass
11	2462	11	9.32	0.5	Pass

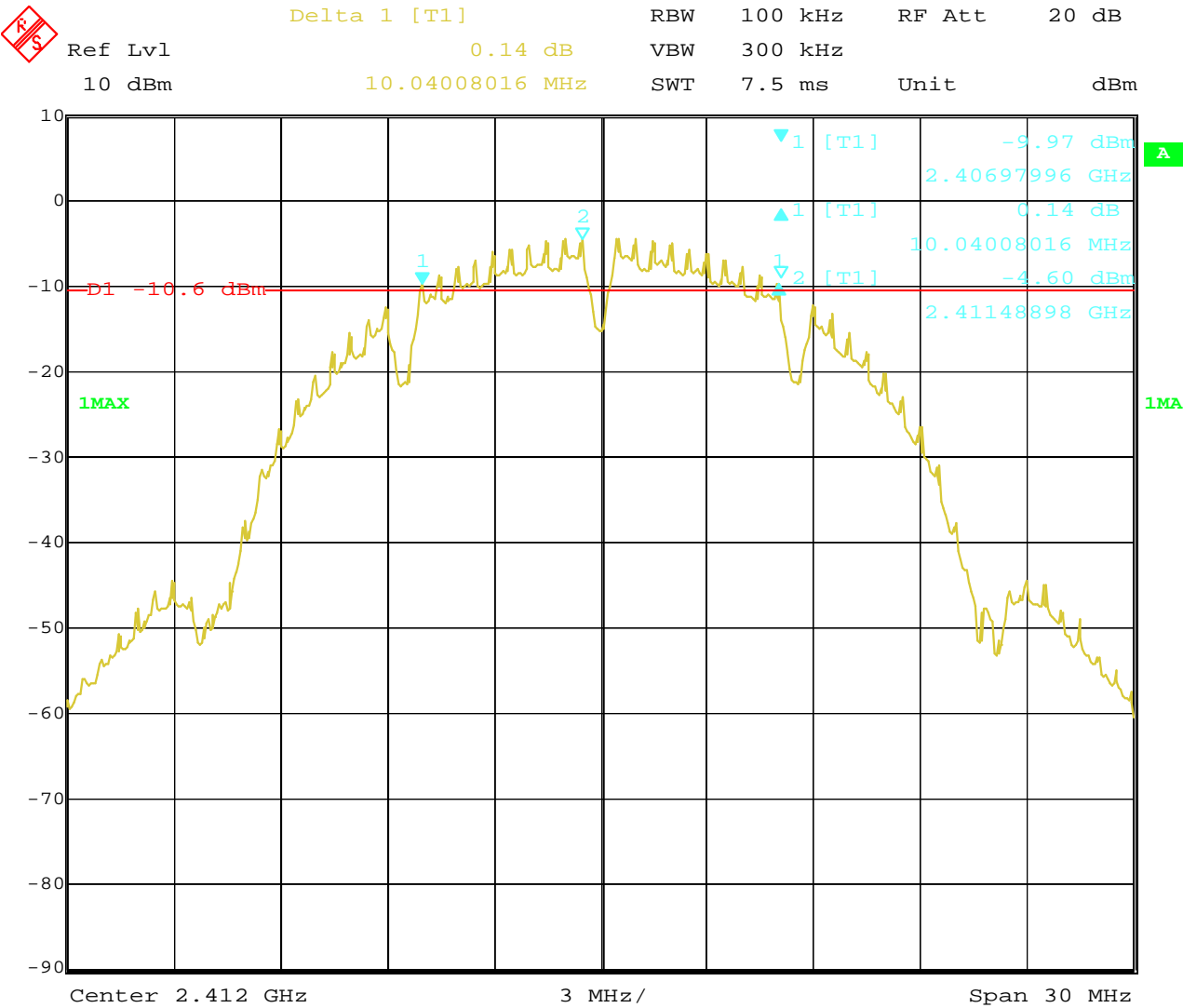
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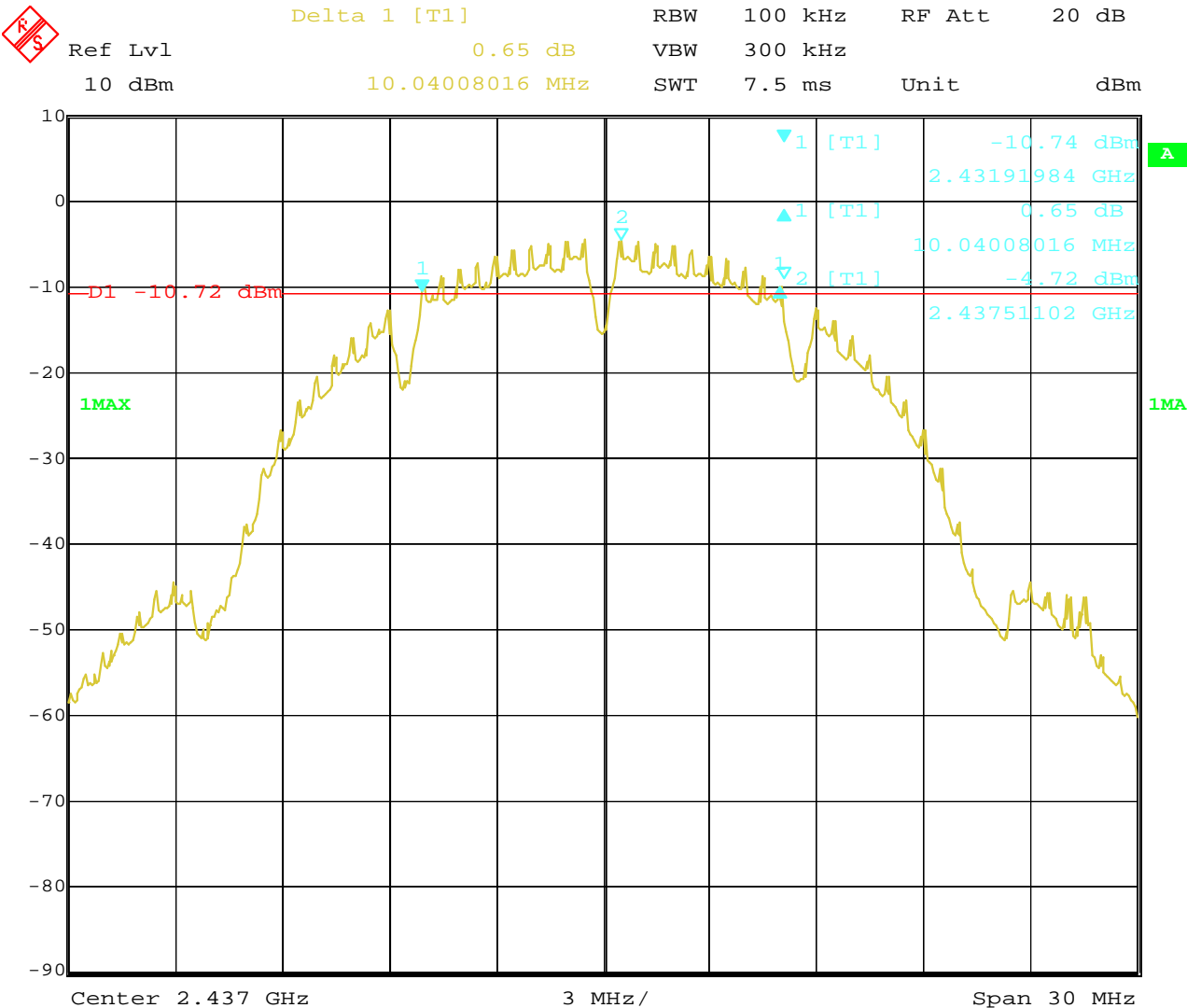
1. 802.11b at 1Mbps of CH01



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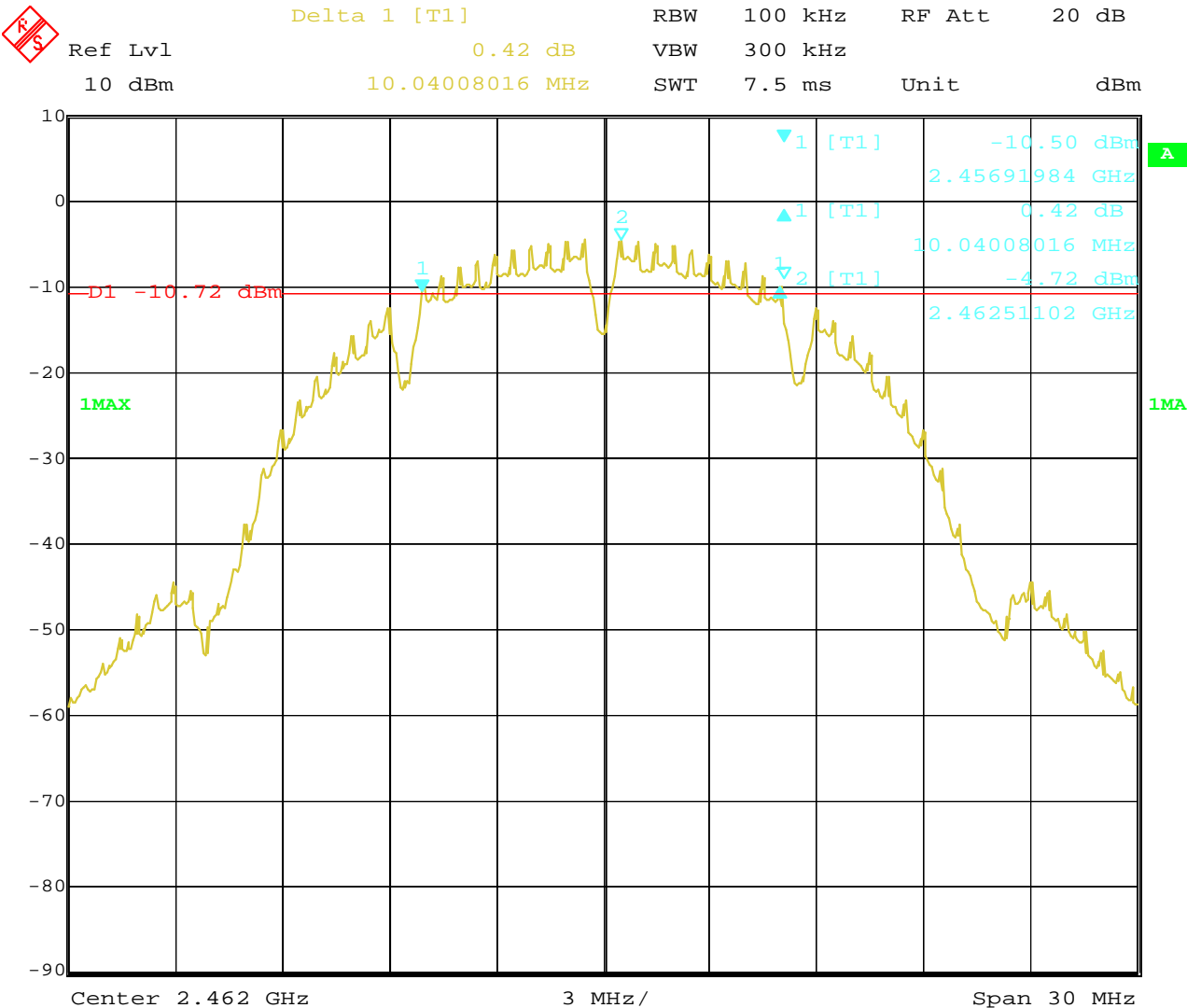
2. 802.11b at 1Mbps of CH06



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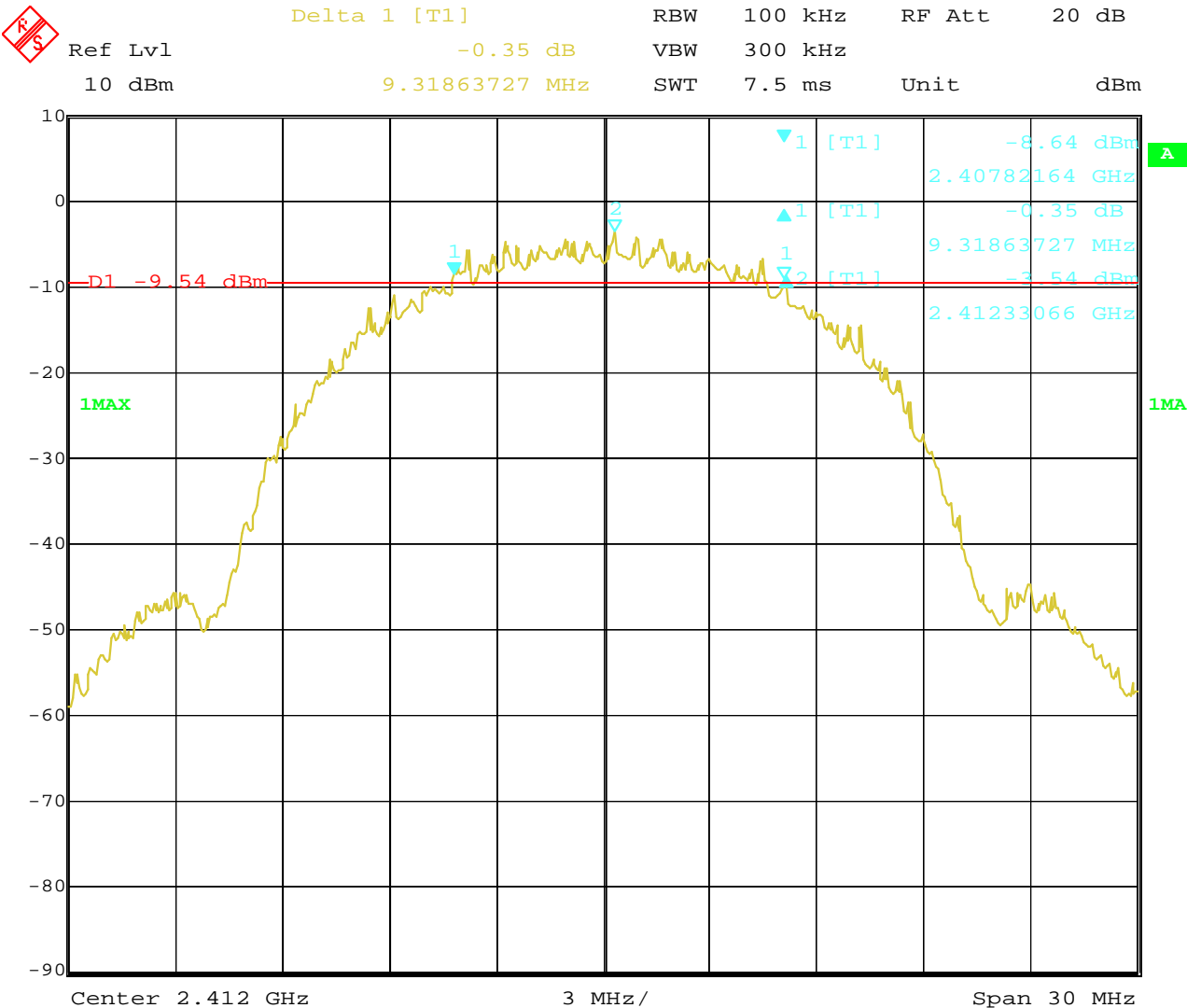
3. 802.11b at 1Mbps of CH11



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4. 802.11b at 11Mbps of CH01



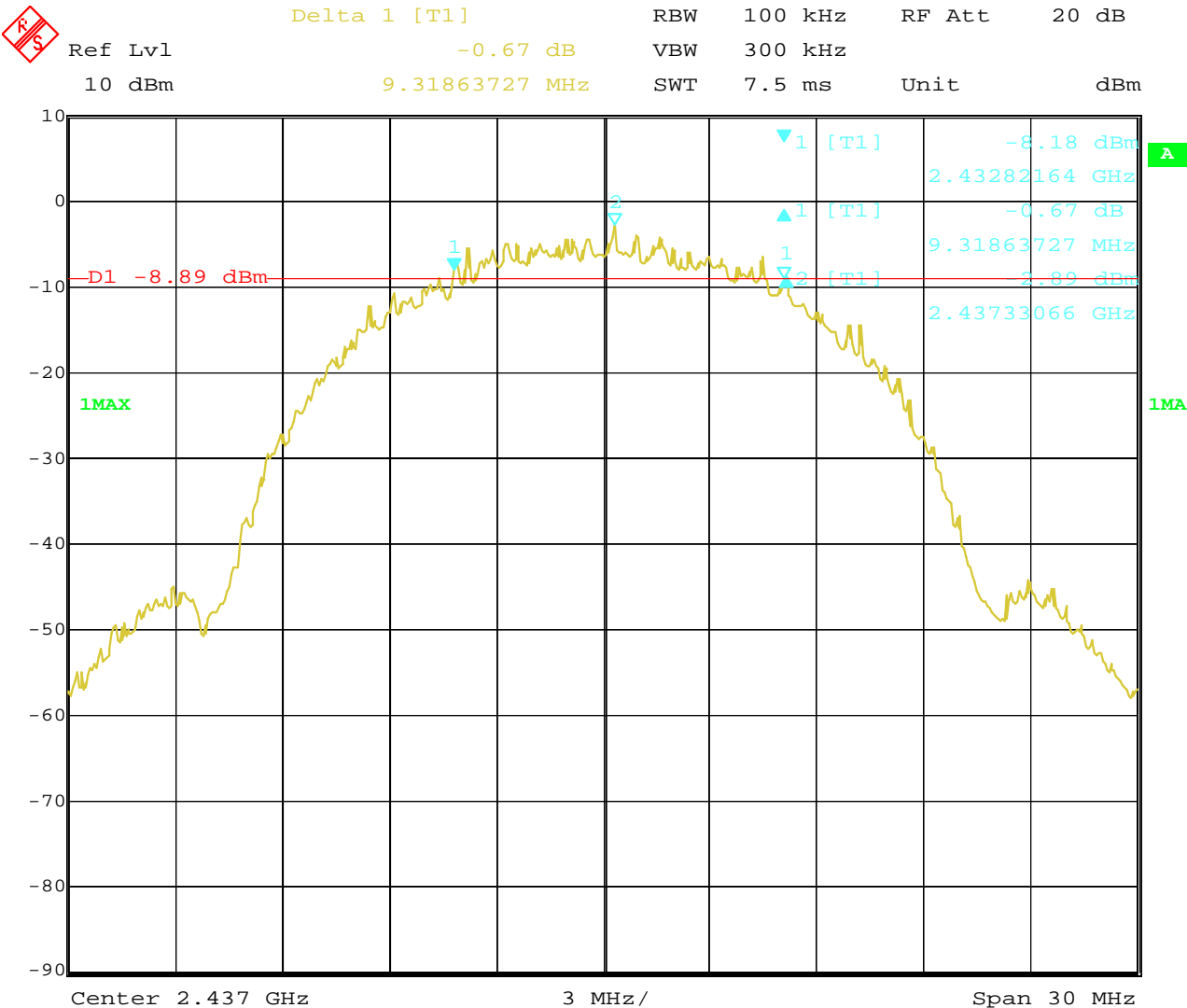
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5. 802.11b at 11Mbps of CH06



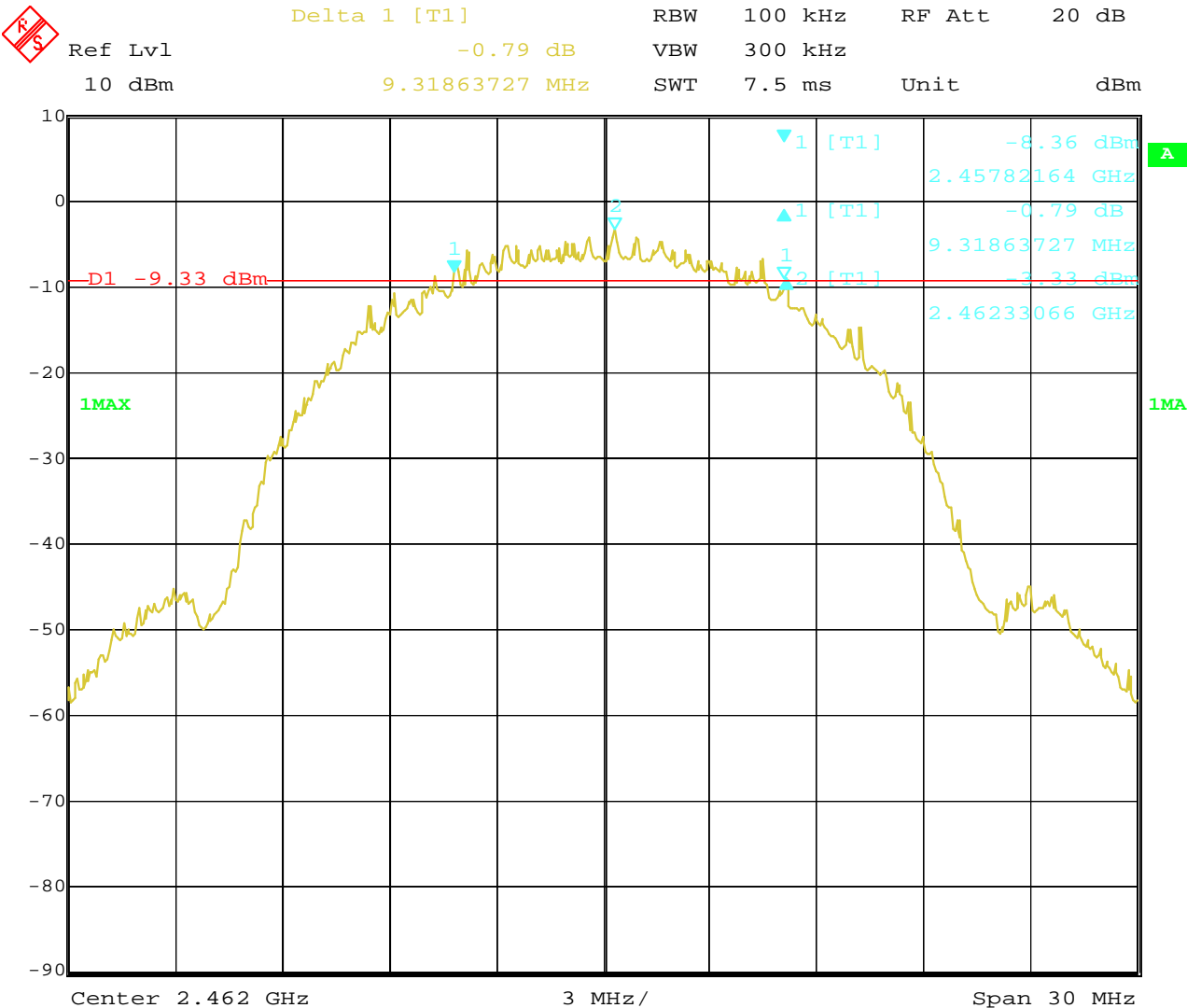
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6. 802.11b at 11Mbps of CH11



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### 6dB Occupied Bandwidth

EUT		Macvon Reflection		Model	Model R
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

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

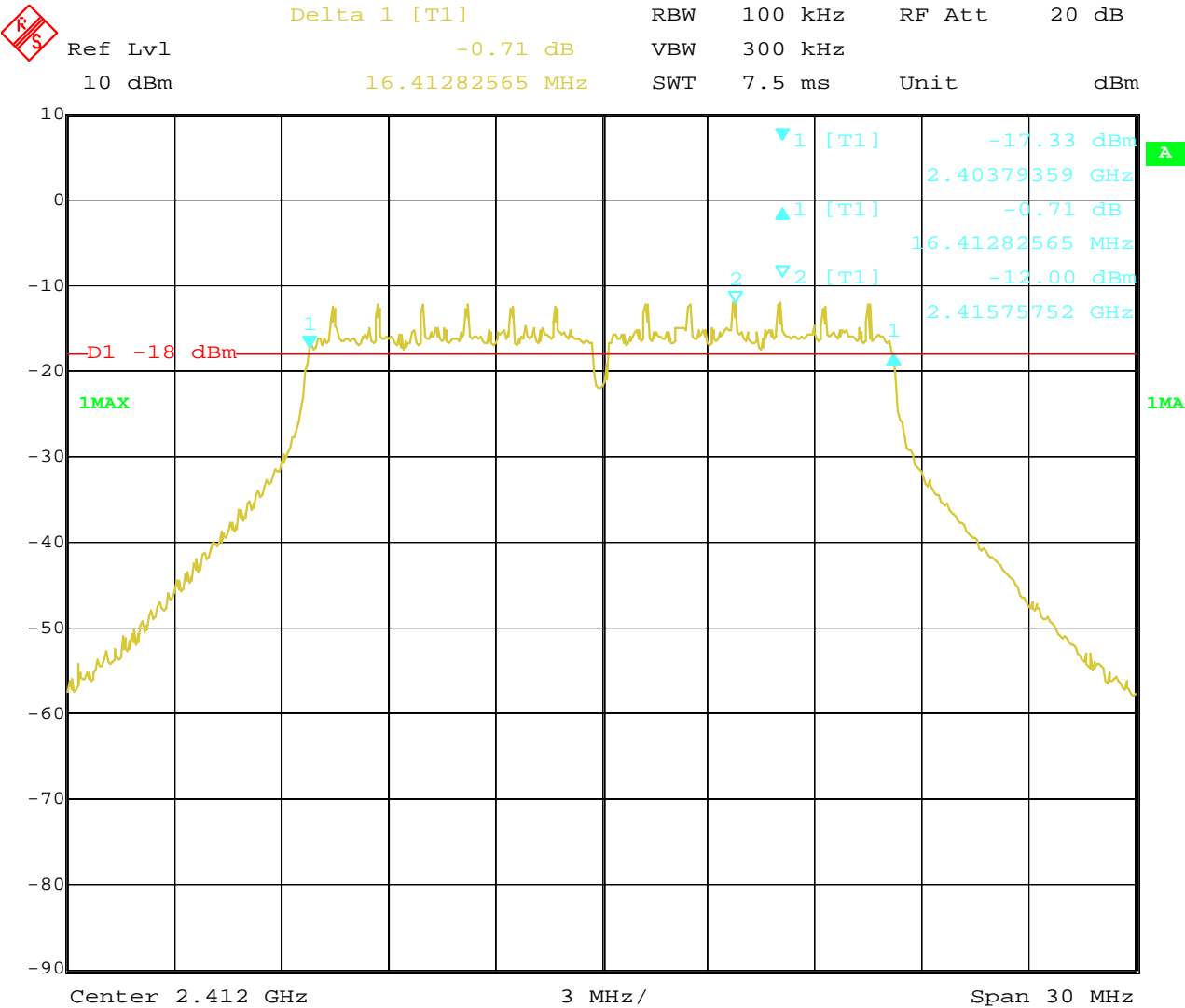
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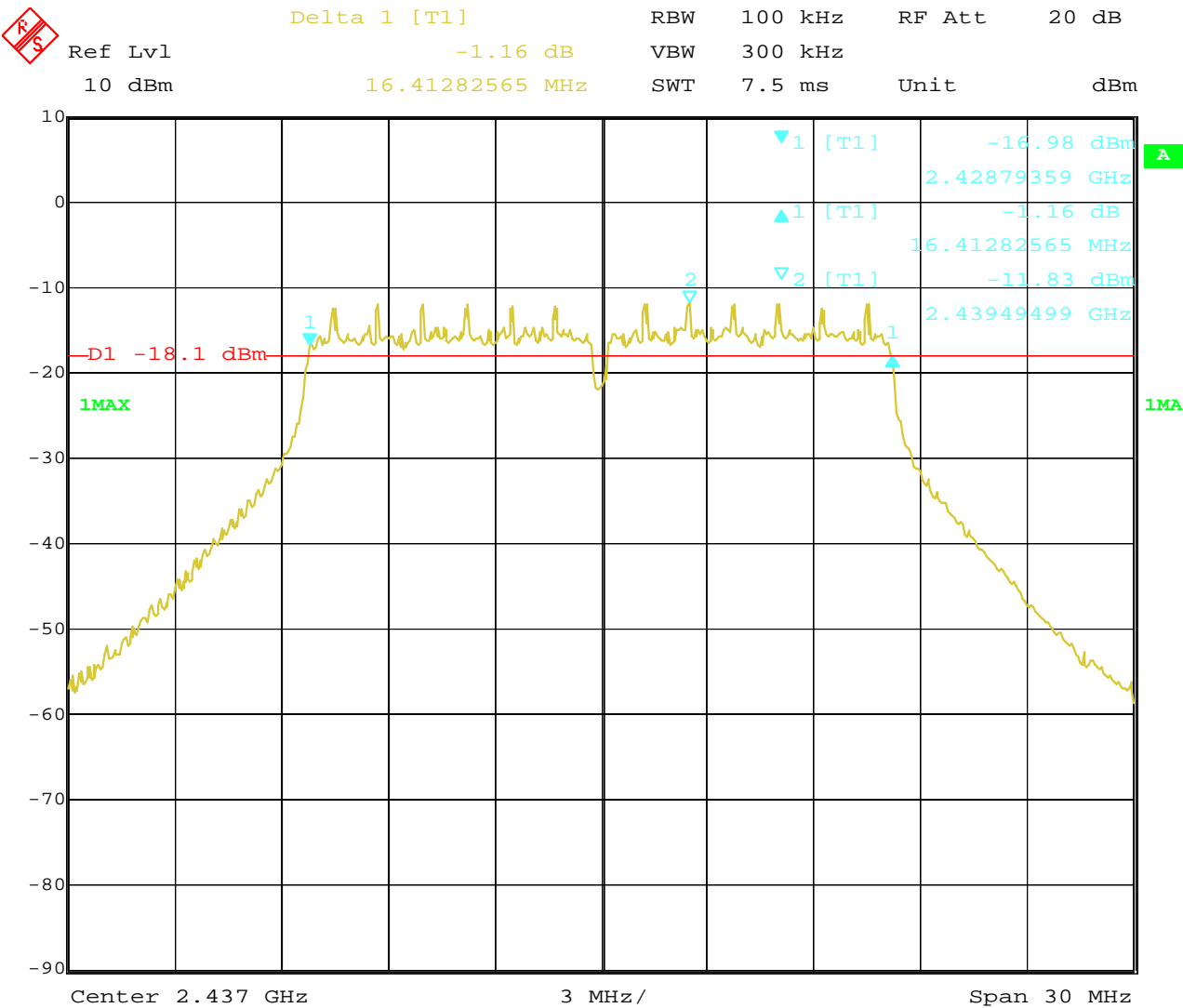
Test Plots:  
1. 802.11g at 6Mbps of CH01



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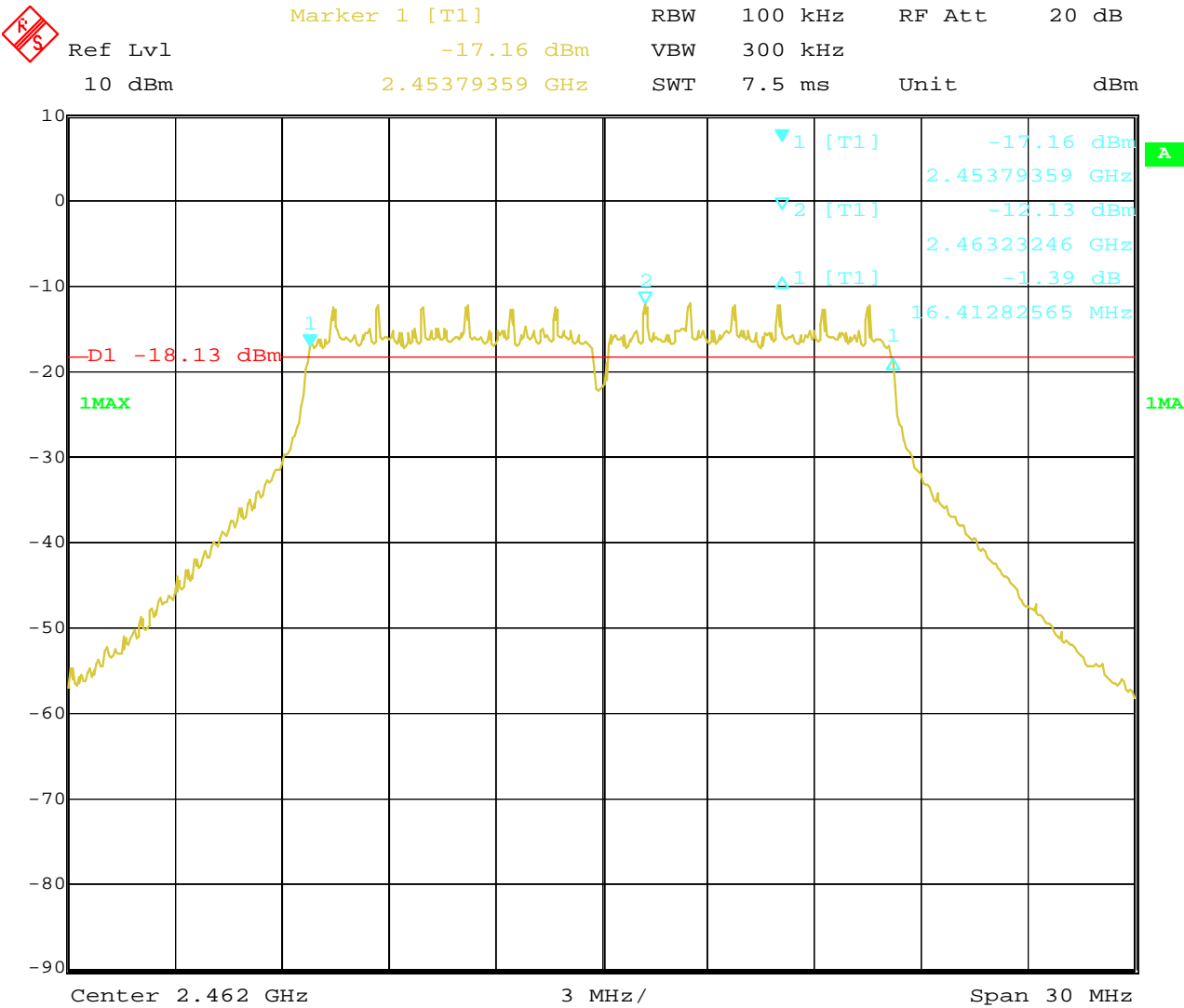
2. 802.11g at 6Mbps of CH06



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3. 802.11g at 6Mbps of CH11



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### 6dB Occupied Bandwidth

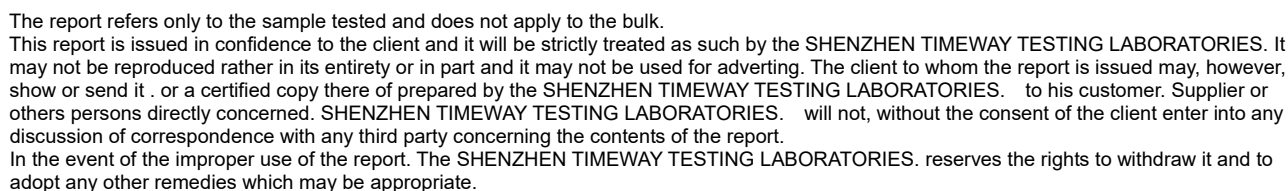
EUT	Macvon Reflection		Model	Model R	
Mode	802.11n HT20		Input Voltage	120V~	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	mcs0	17.56	0.5	Pass
6	2437	mcs0	17.56	0.5	Pass
11	2462	mcs0	17.56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

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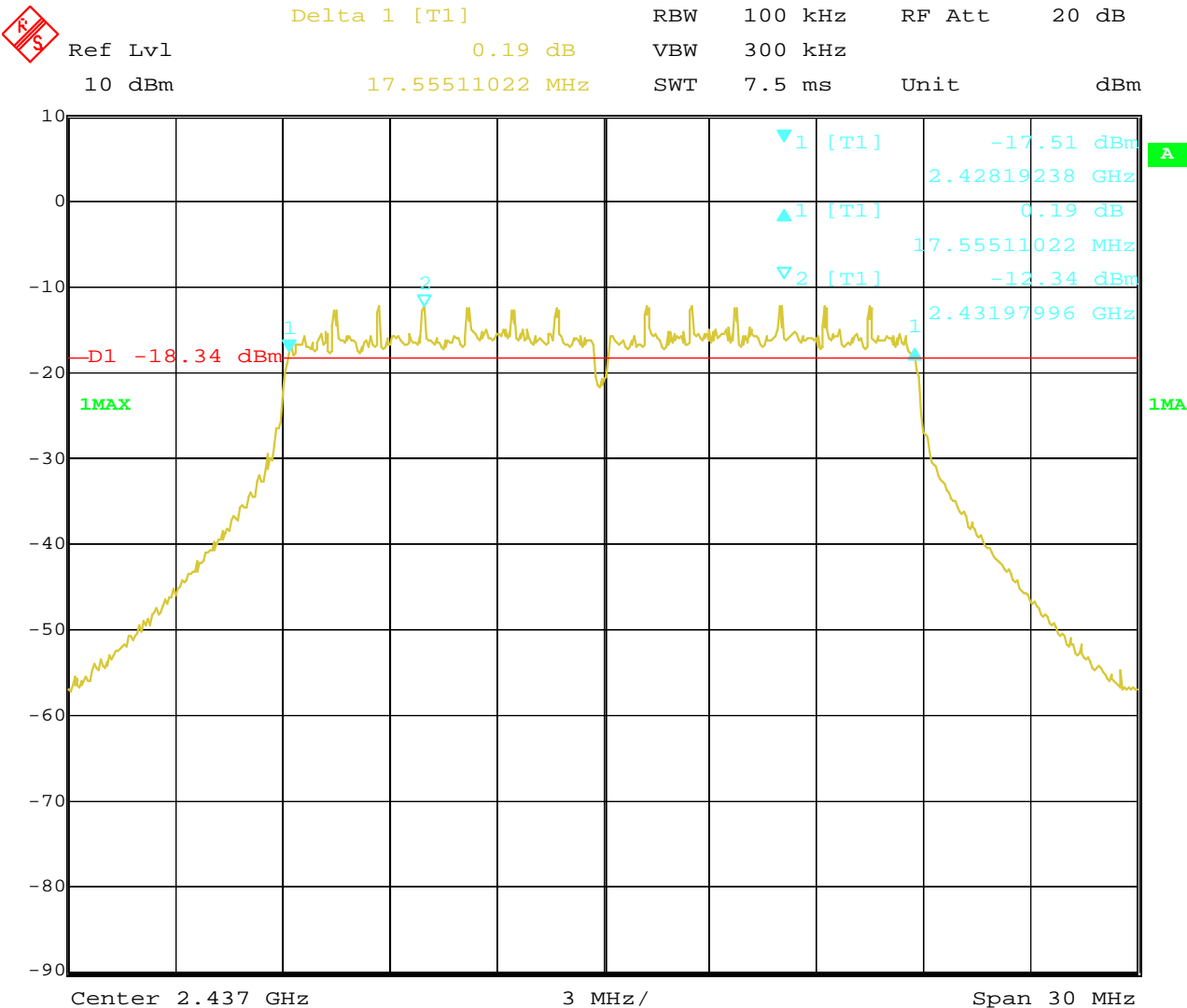
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### 1. 802.11n at HT20 of CH01





2. 802.11n at HT20 of CH06



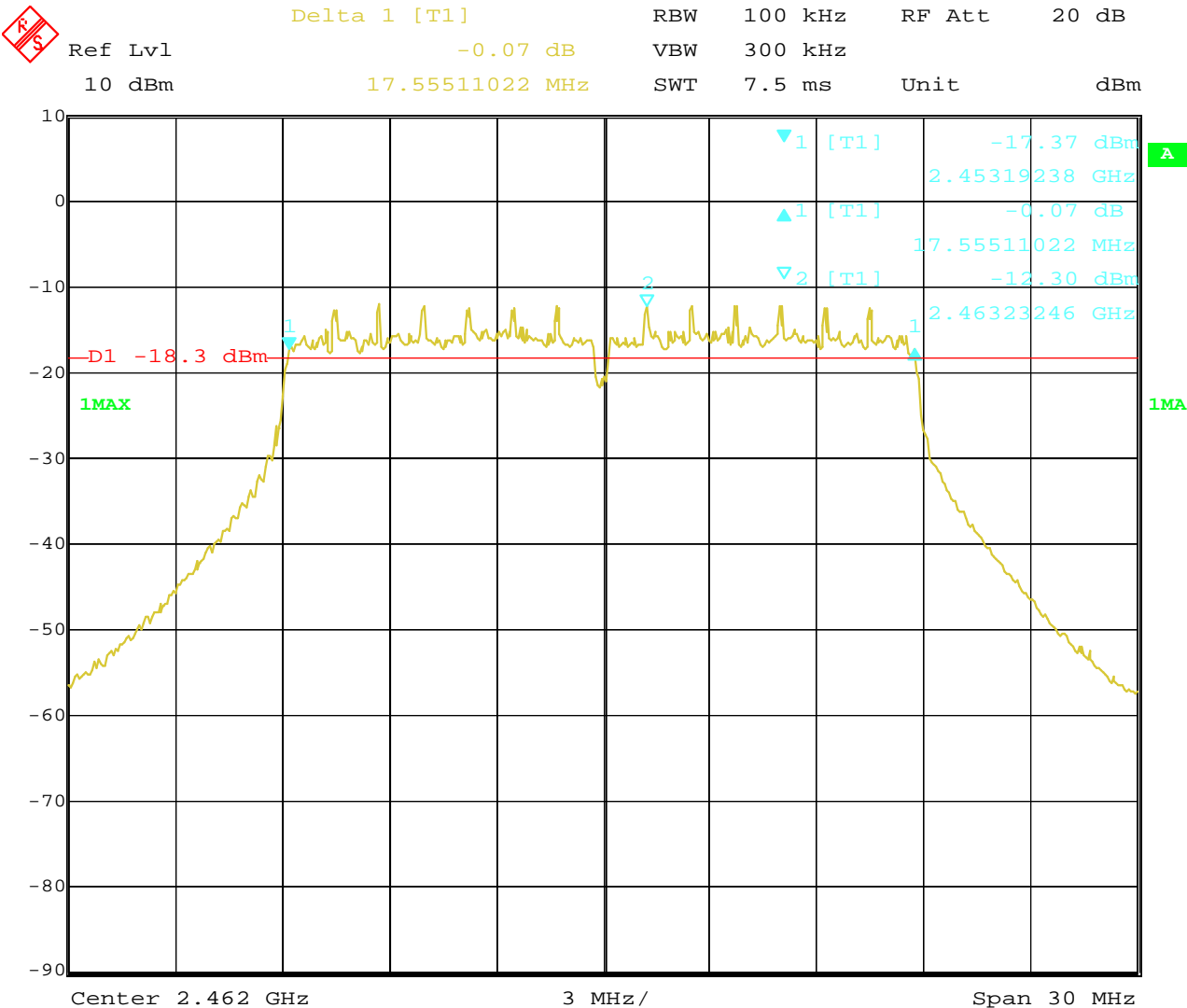
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3. 802.11n at HT20 of CH11



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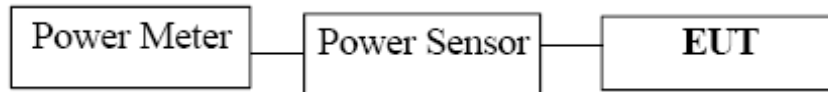
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## 8. Maximum Output Power

### 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**

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#### 8.4 Test Results

EUT		Macvon Reflection		Model		Model R	
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	15.28				30	Pass
6	2437	15.56				30	Pass
11	2462	15.53				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:

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

3. The worse case was recorded

EUT		Macvon Reflection		Model		Model R	
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	14.26				30	Pass
6	2437	14.46				30	Pass
11	2462	14.46				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:

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

3. The worse case was recorded

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EUT		Macvon Reflection	Model	Model R	
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	13.56		30	Pass
6	2437	13.56		30	Pass
11	2462	13.90		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

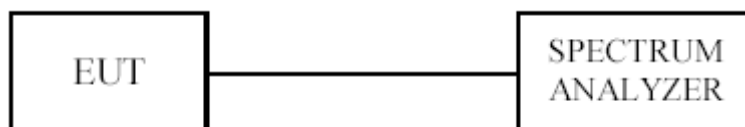
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## 9. Power Spectral Density Measurement

### 9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

### 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.

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#### 9.4 Test Result

EUT		Macvon Reflection	Model	Model R	
Mode		802.11b 11Mbps	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power Spectral Density		Limit (dBm/3kHz)	Pass/ Fail
1	2412	-14.44		8	Pass
6	2437	-14.18		8	Pass
11	2462	-14.36		8	Pass

EUT		Macvon Reflection	Model	Model R	
Mode		802.11b 1Mbps	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm/8kHz)		Limit (dBm/3kHz)	Pass/ Fail
1	2412	-15.04		8	Pass
6	2437	-15.15		8	Pass
11	2462	-14.36		8	Pass

EUT		Macvon Reflection	Model	Model R	
Mode		802.11g 6Mbps	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm/8kHz)		Limit (dBm/3kHz)	Pass/ Fail
1	2412	-23.02		8	Pass
6	2437	-22.70		8	Pass
11	2462	-21.85		8	Pass

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EUT		Macvon Reflection	Model	Model R	
Mode		802.11n HT20 mcs0	Input Voltage	120V~	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm/8kHz)		Limit (dBm/3kHz)	Pass/ Fail
1	2412	-21.36		8	Pass
6	2437	-21.52		8	Pass
11	2462	-21.05		8	Pass

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

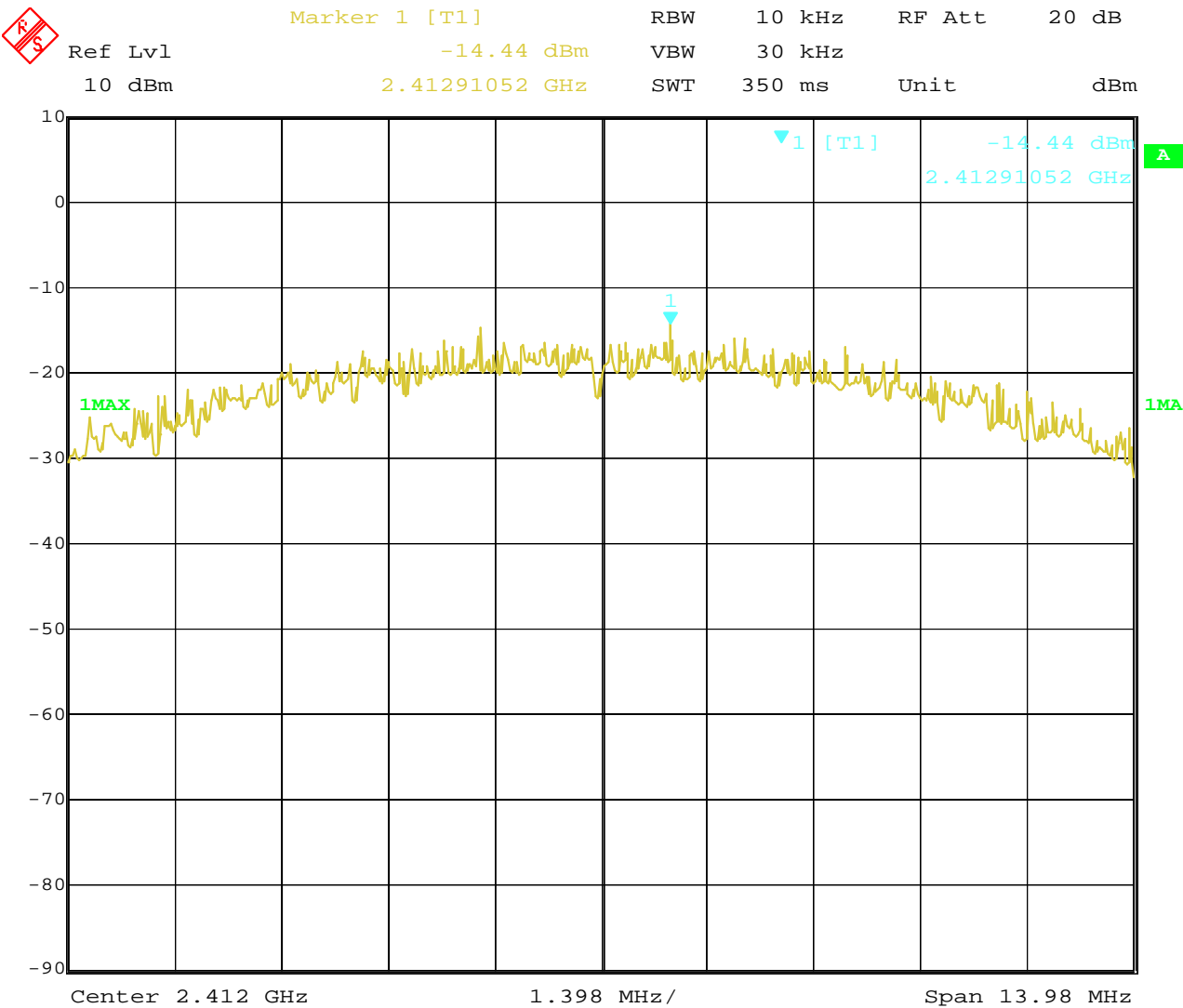
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9.5 Photo of Power Spectral Density Measurement

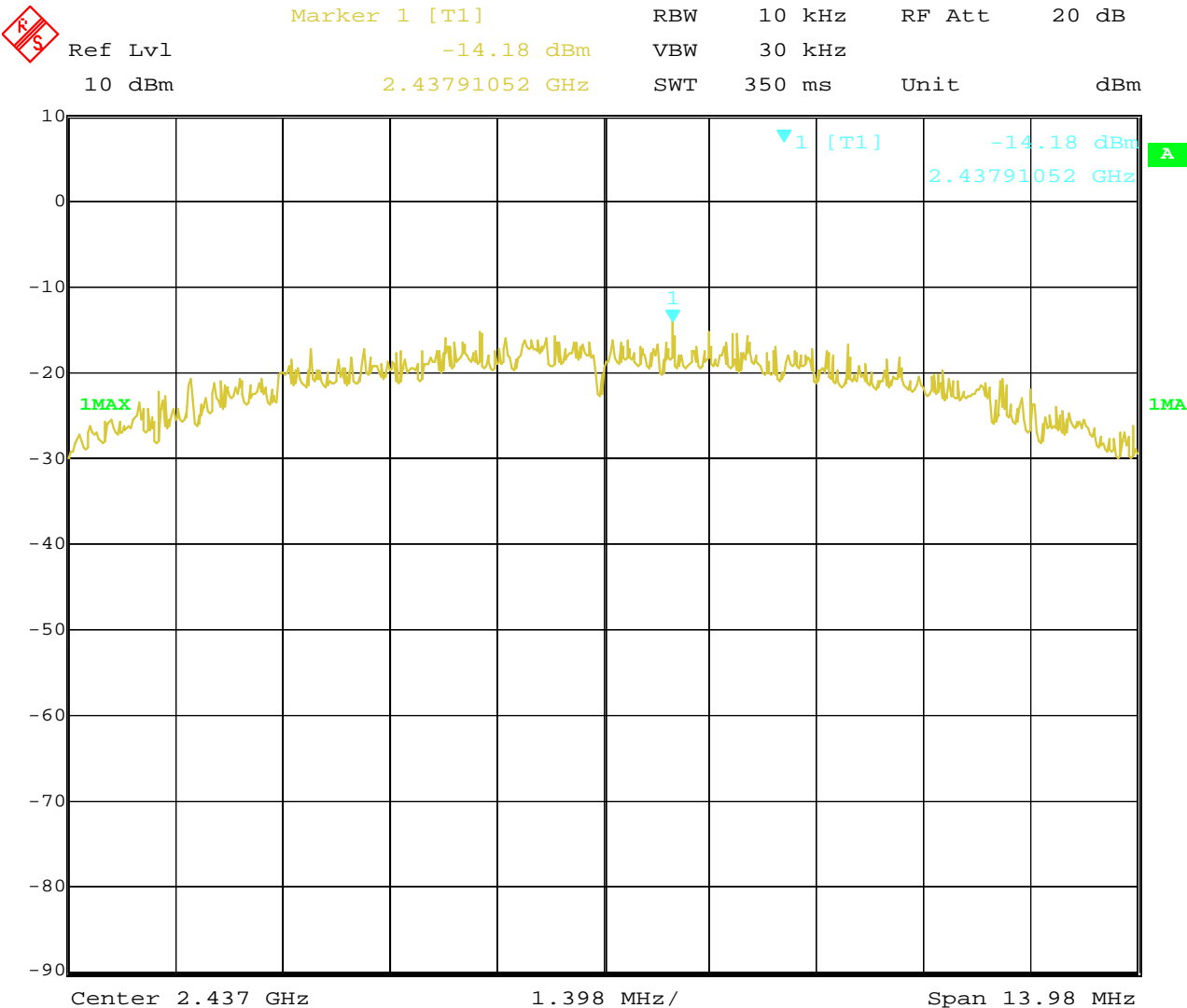
1.802.11b at 11Mbps of CH01



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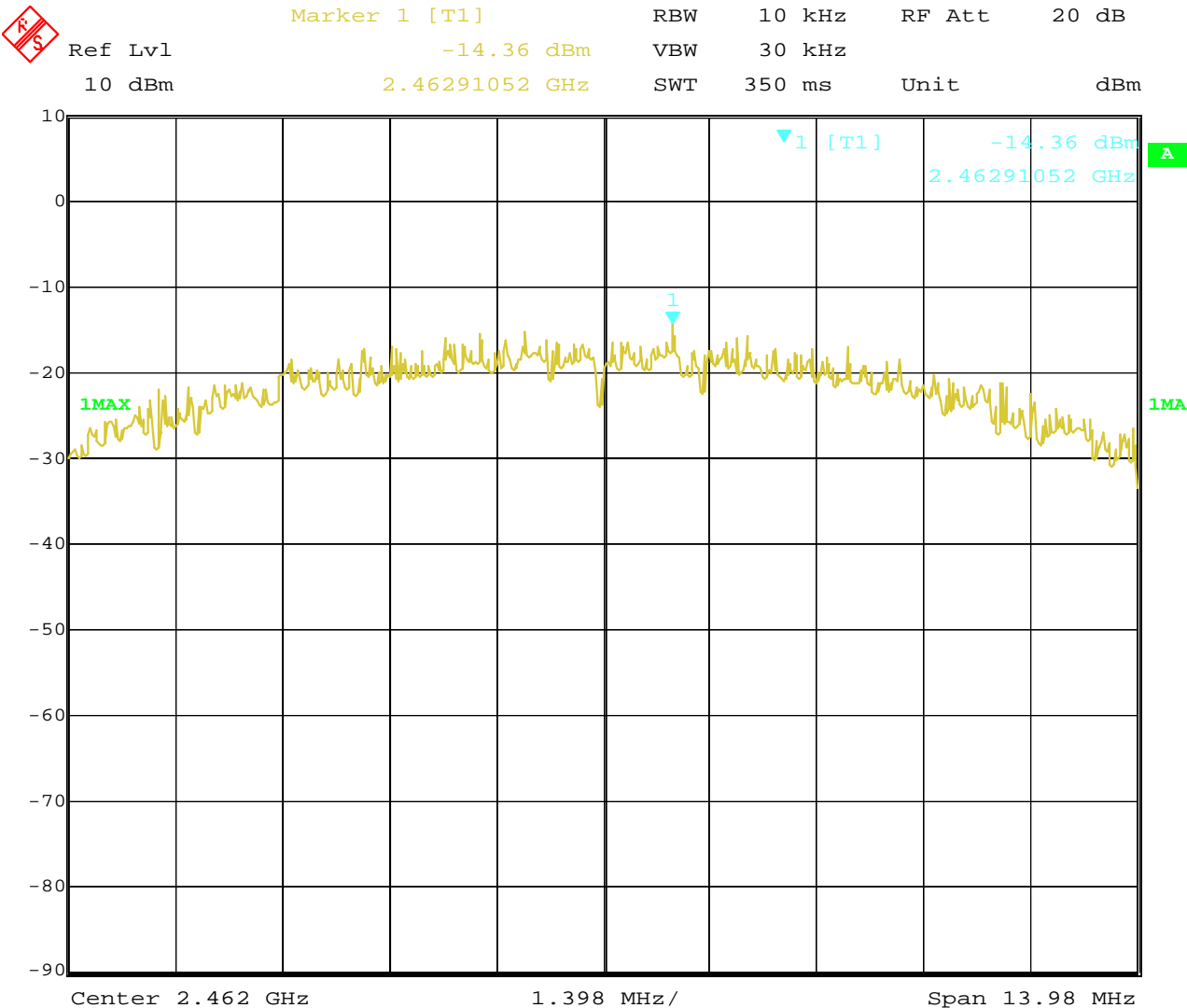
2. 802.11b at 11Mbps at CH06



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3. 802.11b at 11Mbps of CH11

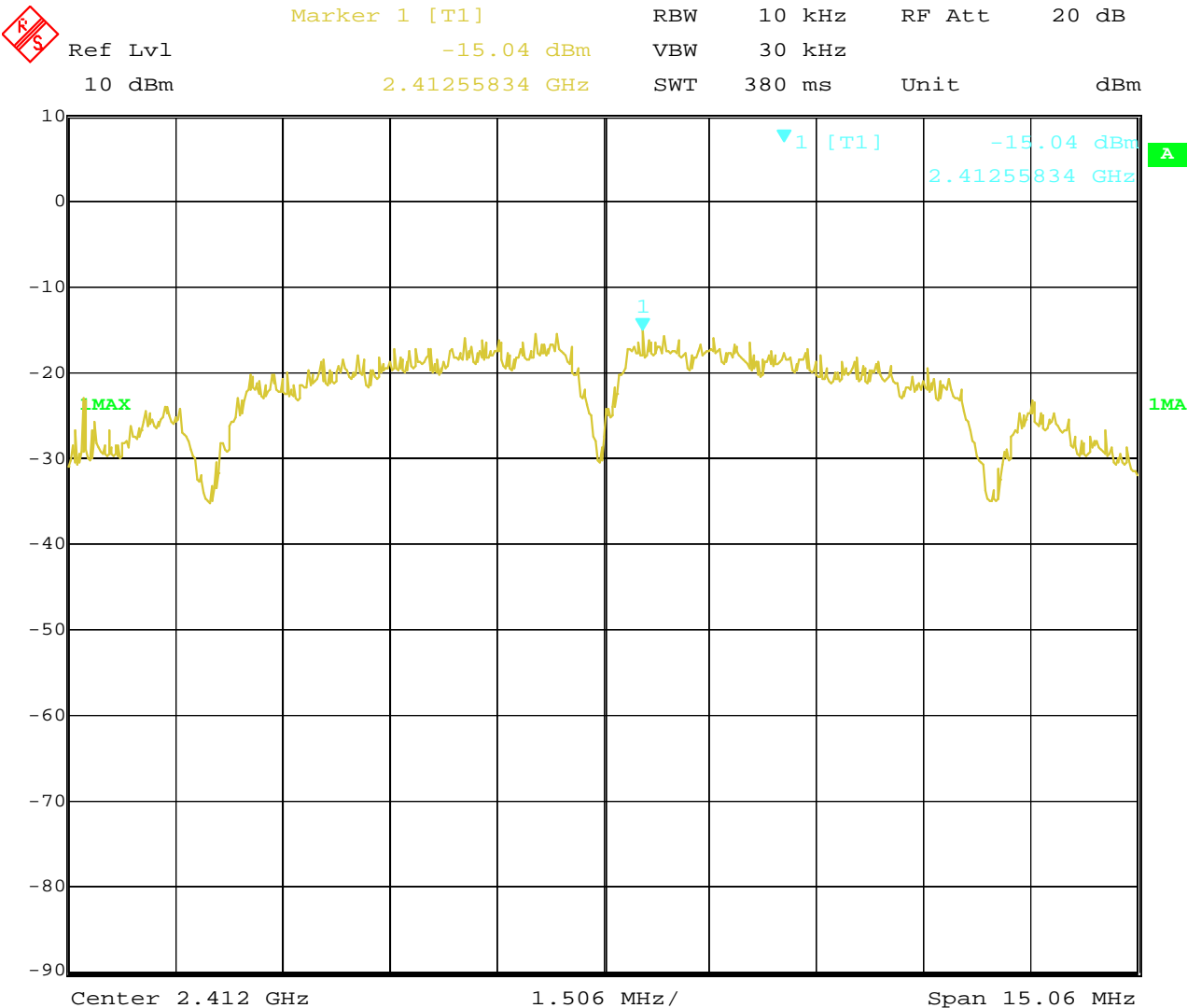


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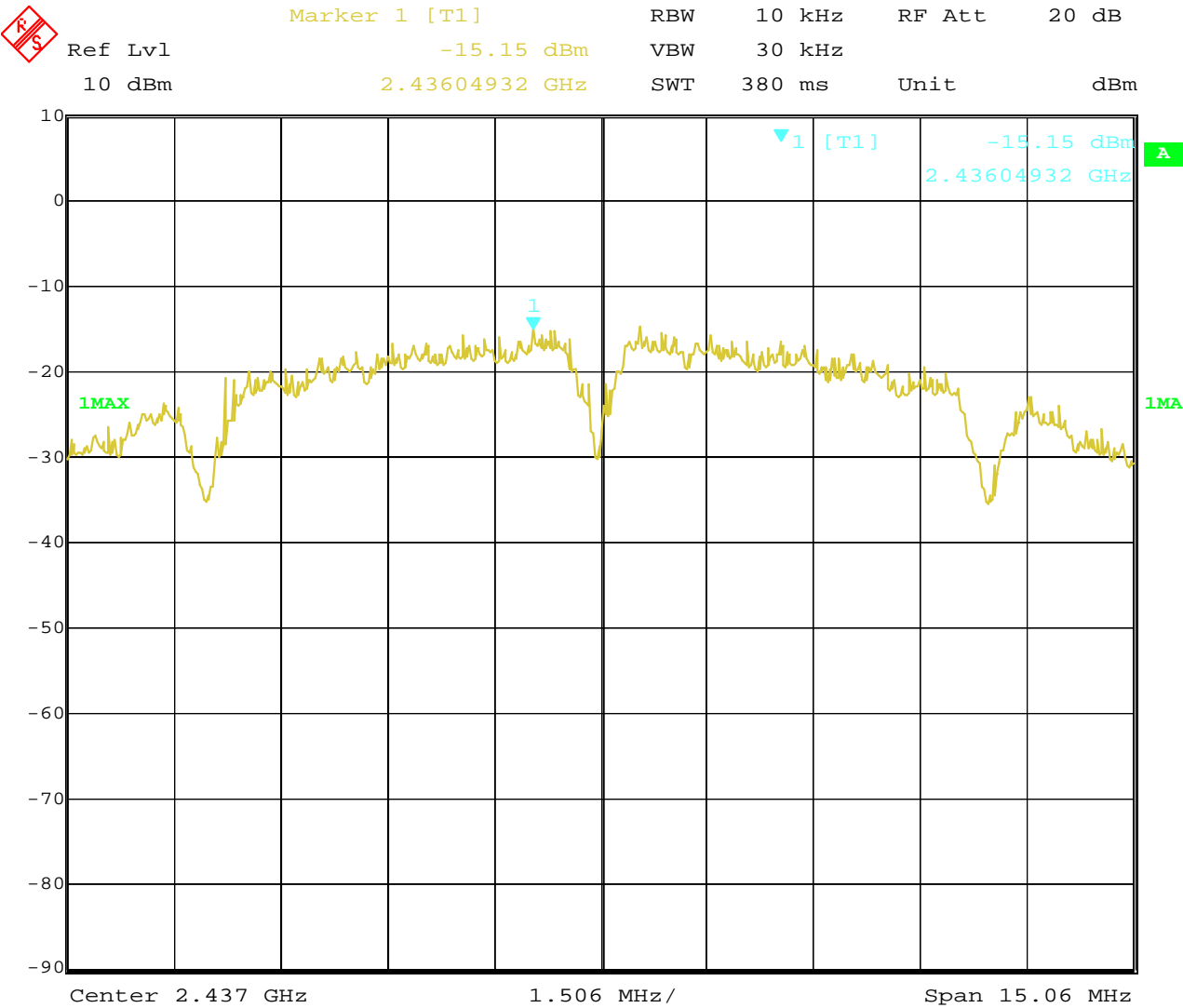
4. 802.11b at 1Mbps of CH1



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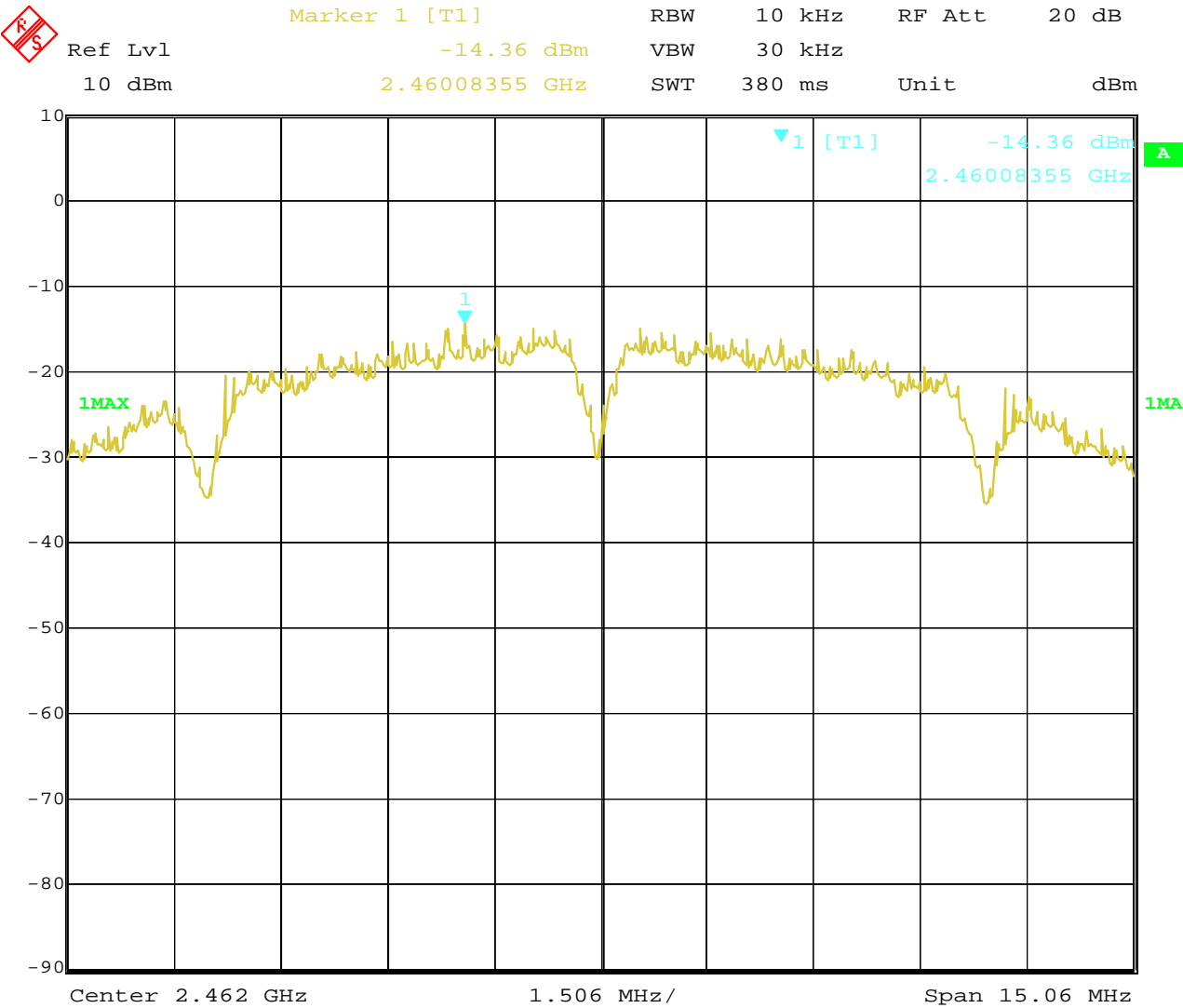
5. 802.11b at 1Mbps of CH6



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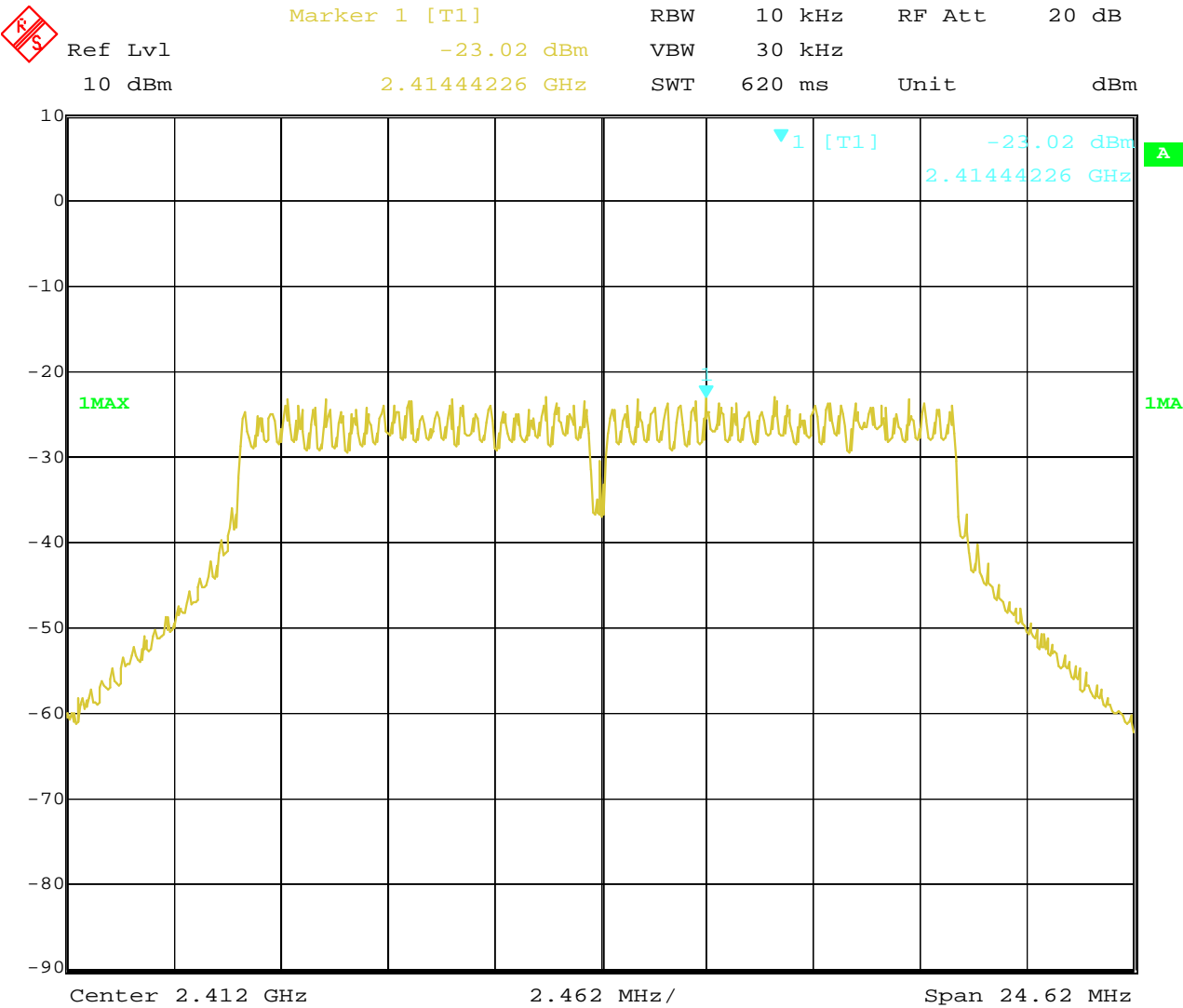
6. 802.11b at 1Mbps of CH11



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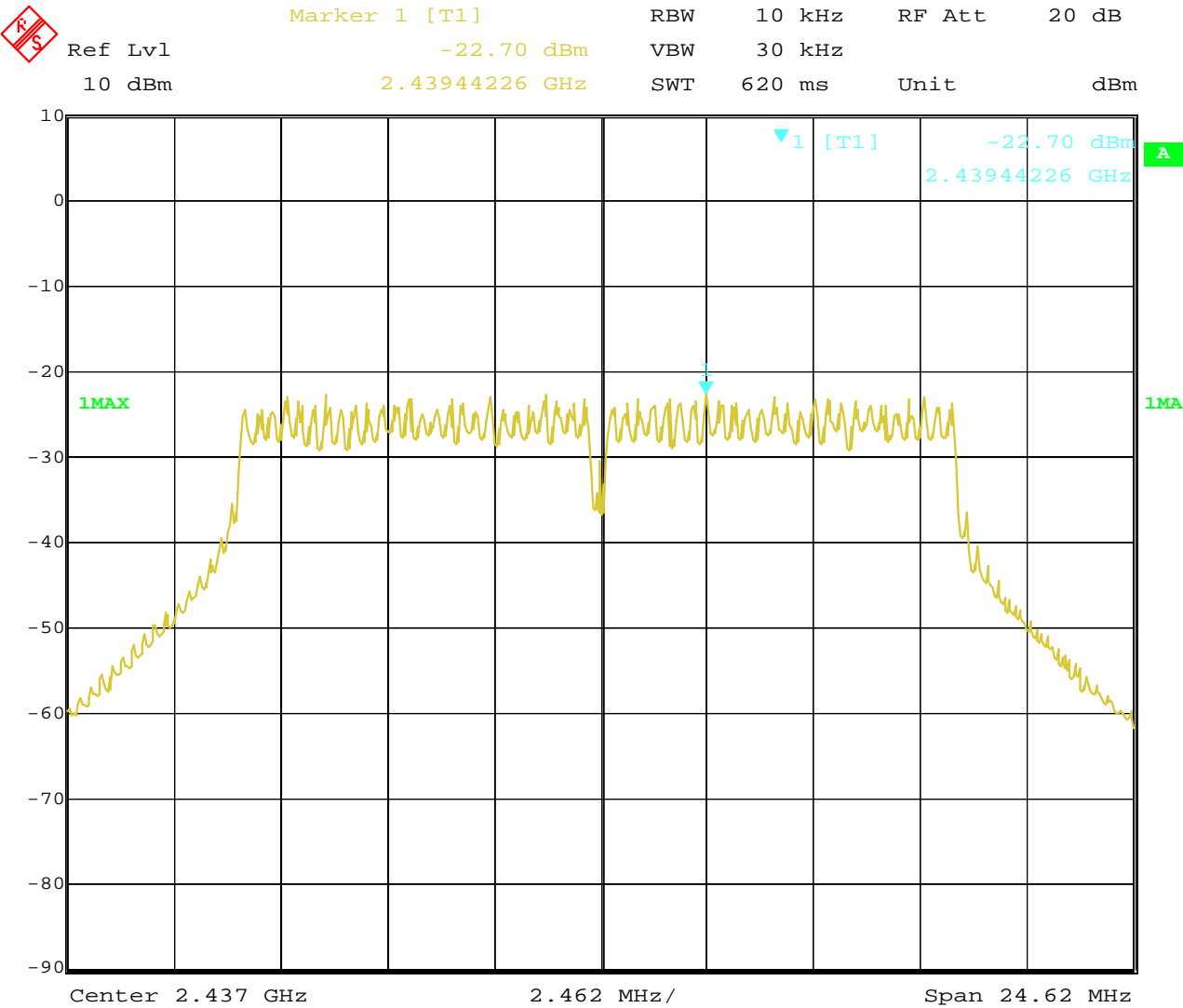
7. 802.11g at 6Mbps of CH1



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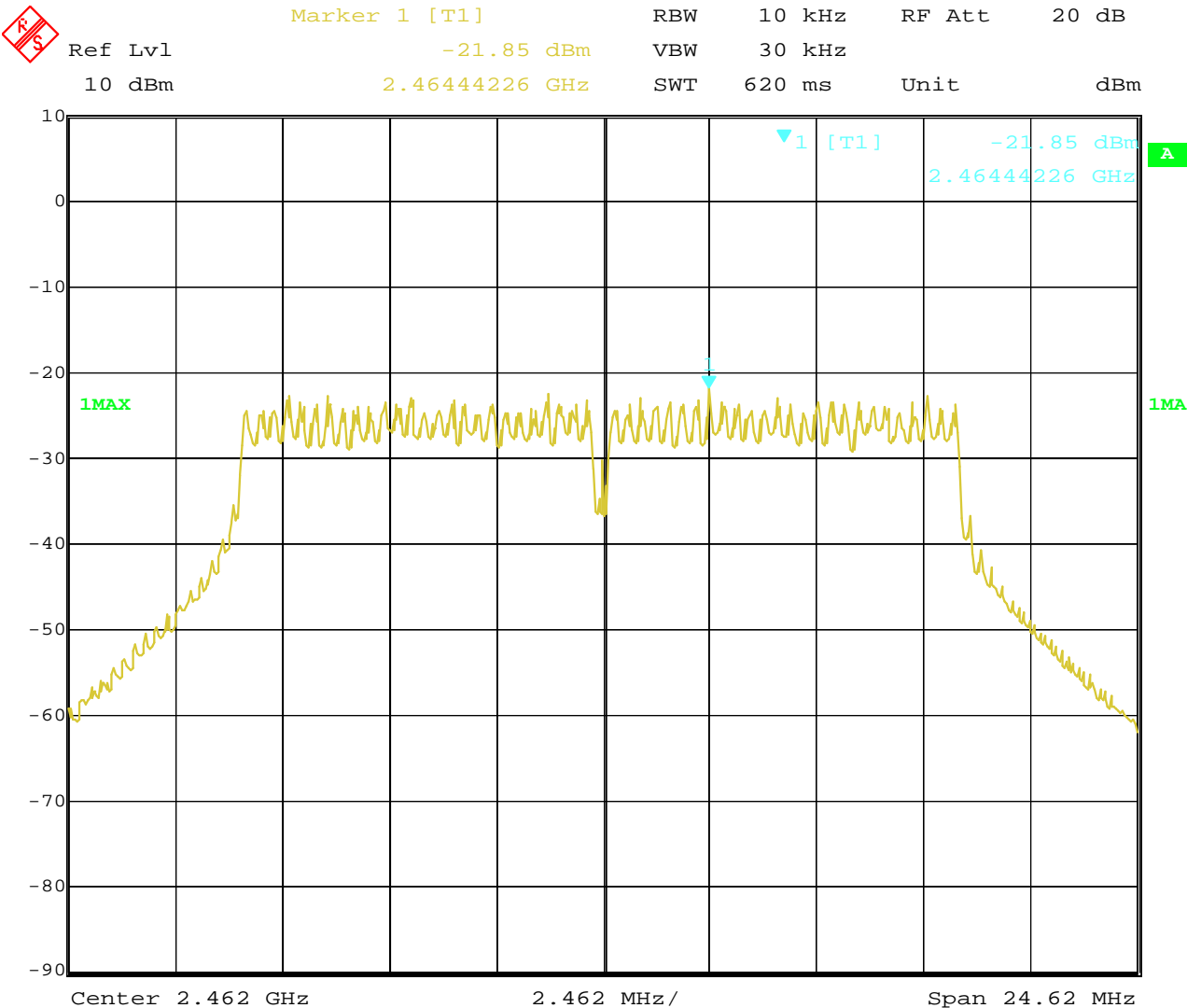
8. 802.11g at 6Mbps of CH6



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9. 802.11g at 6Mbps of CH11



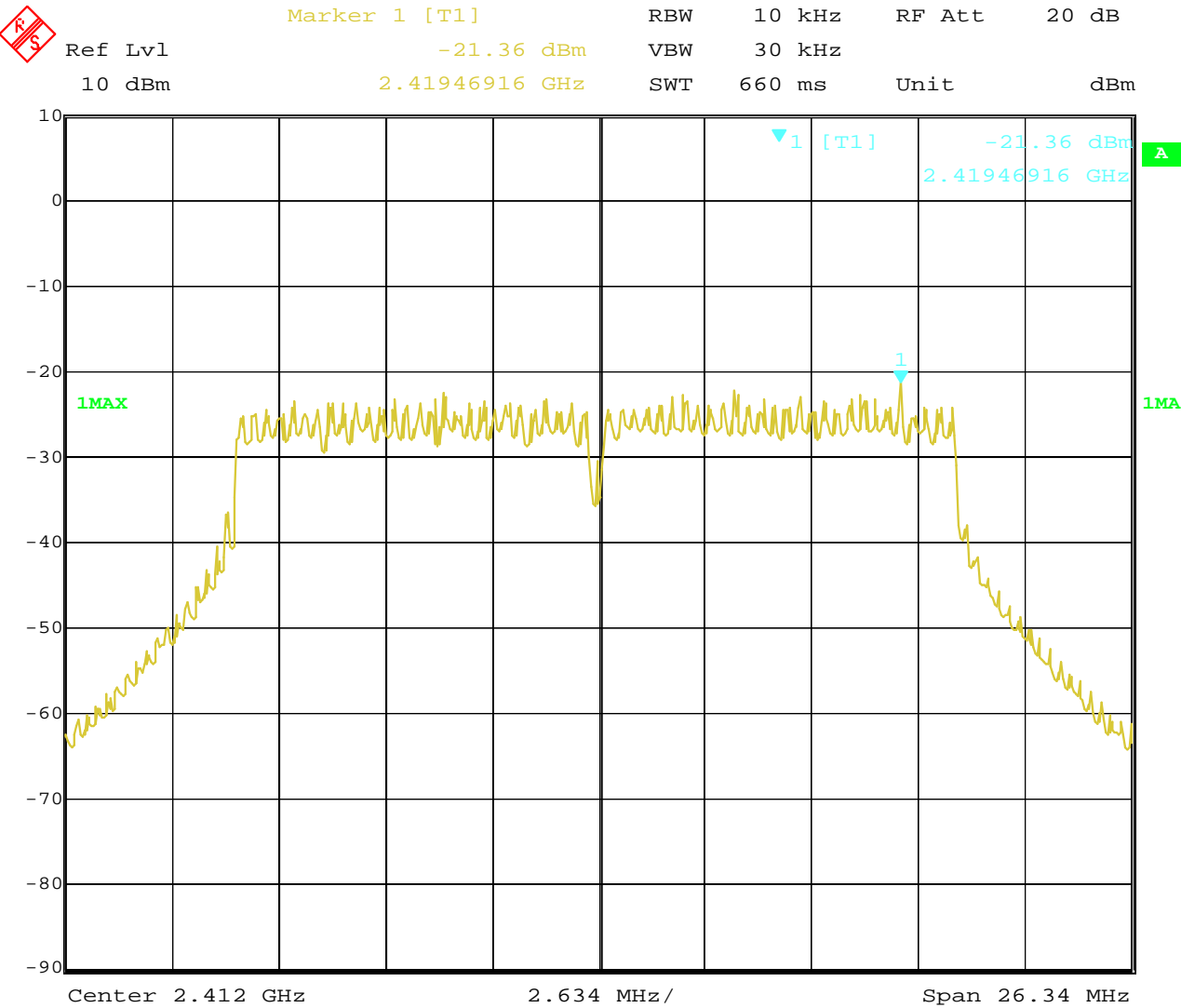
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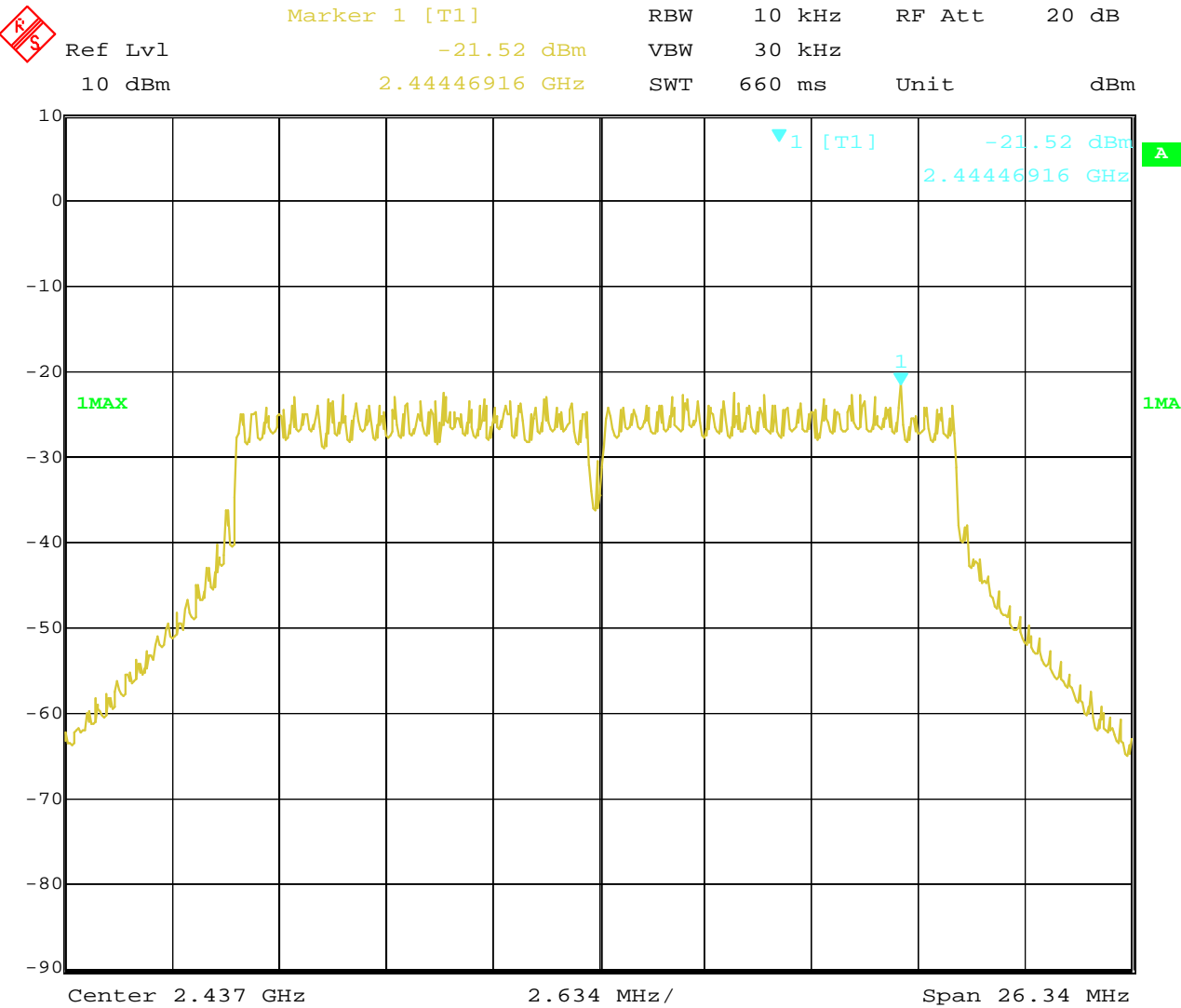
10. 802.11n at HT20 of CH01



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11. 802.11n at HT20 of CH06

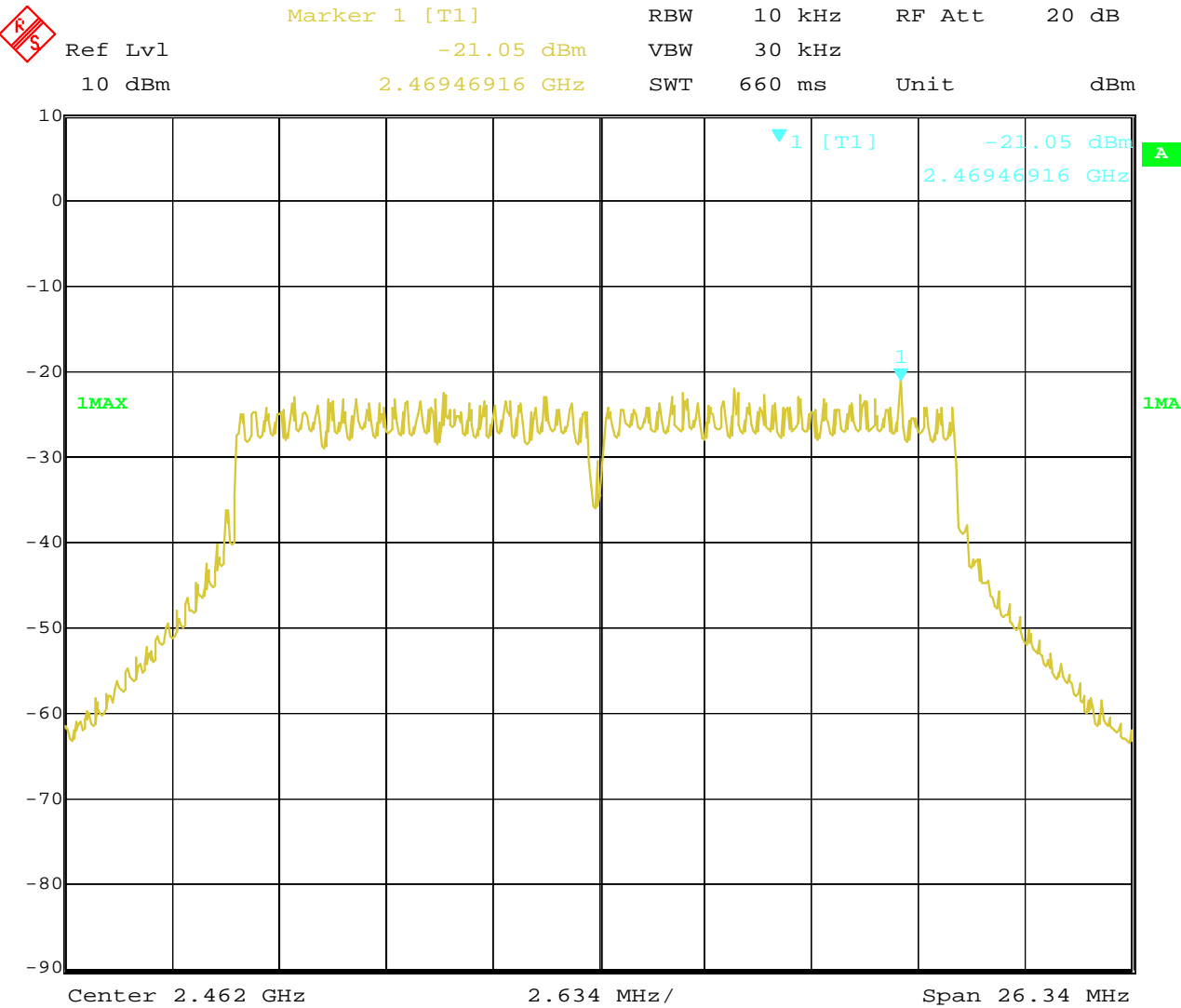


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12. 802.11n at HT20 of CH11

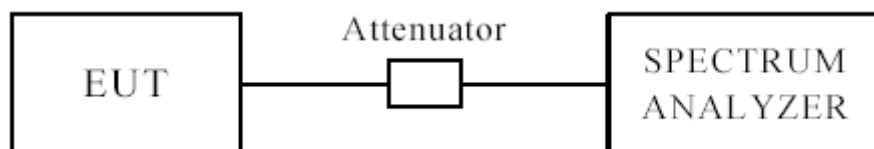


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## 10 Out of Band Measurement

### 10.1 Test Setup for band edge



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=100kHz, 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.

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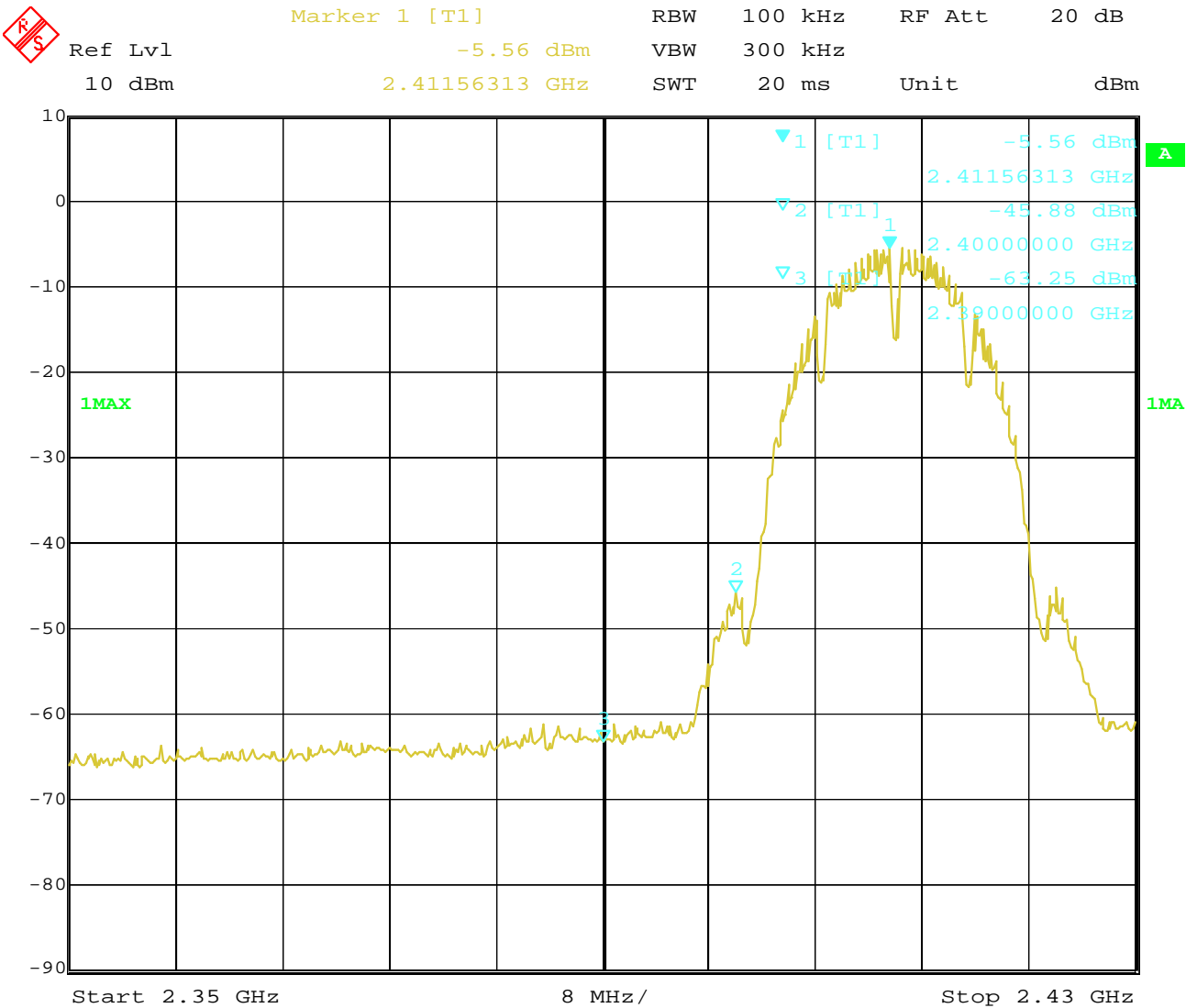
For 802.11b mode

CH01 at 1Mbps

10.4 Band-edge Measurement

EUT	Macvon Reflection	Model	Model R
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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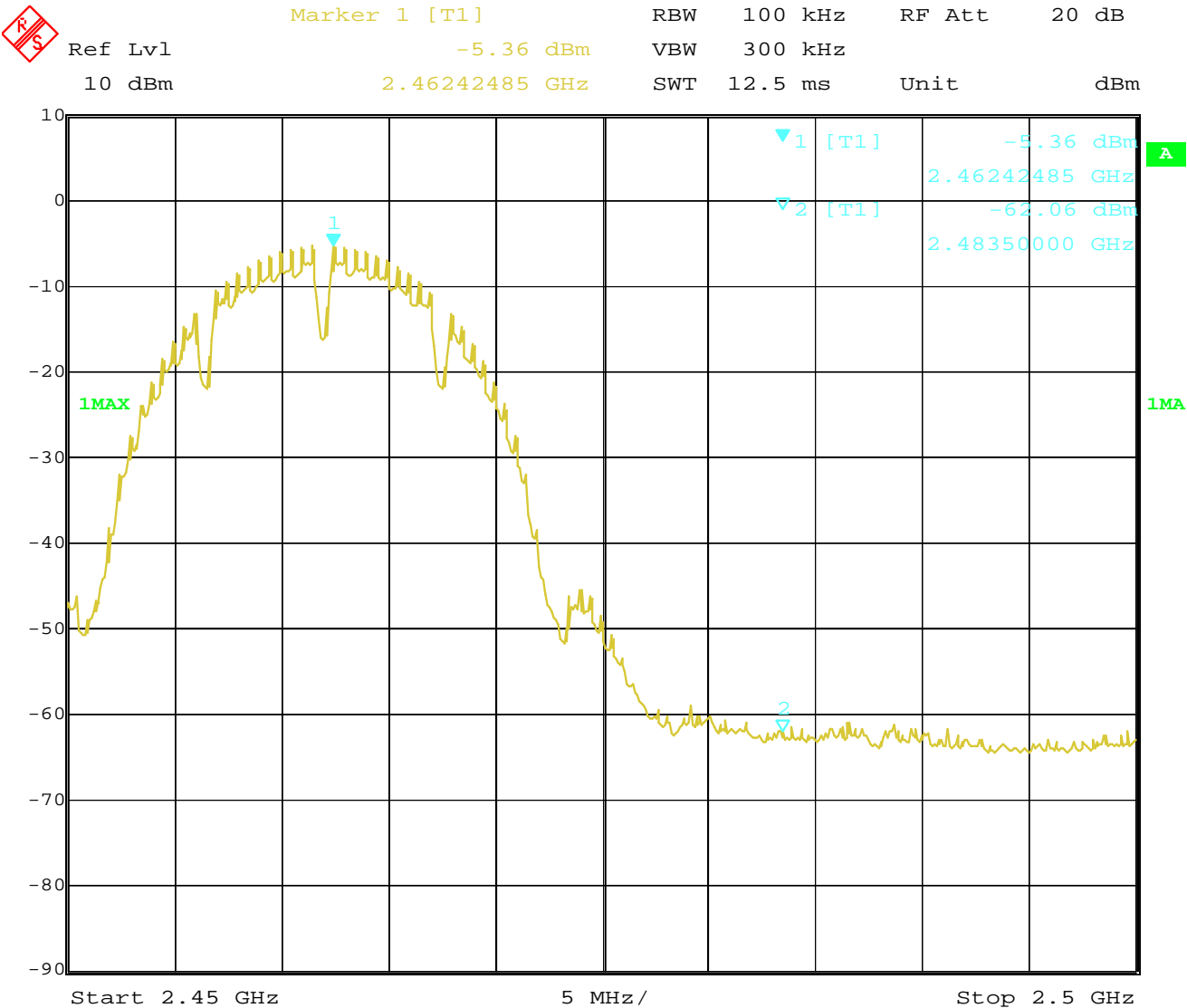


CH11 at 1Mbps

10.4 Band-edge Measurement

EUT	Macvon Reflection	Model	Model R
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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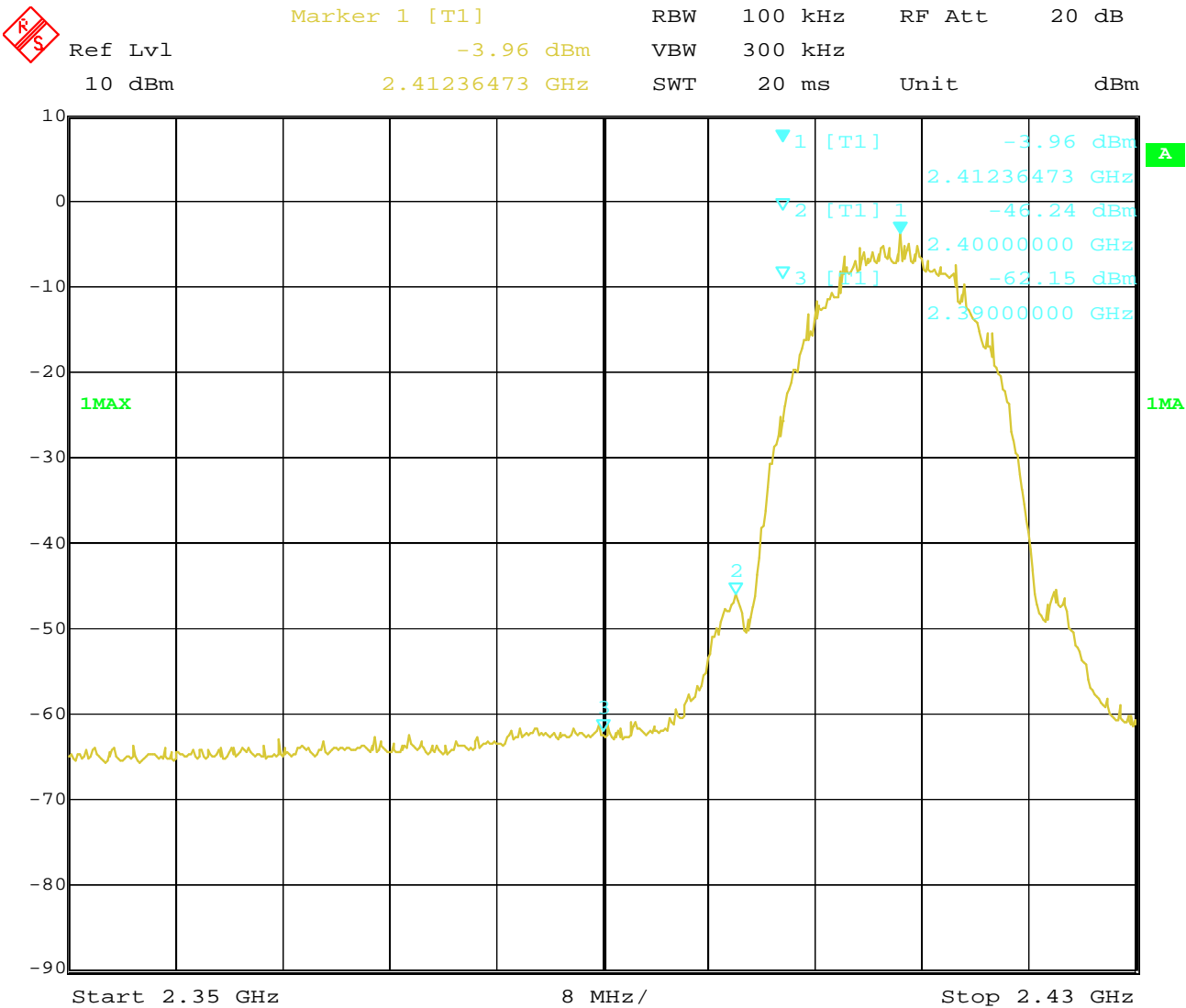


For 802.11b mode  
CH01 at 11Mbps

10.4 Band-edge Measurement

EUT	Macvon Reflection	Model	Model R
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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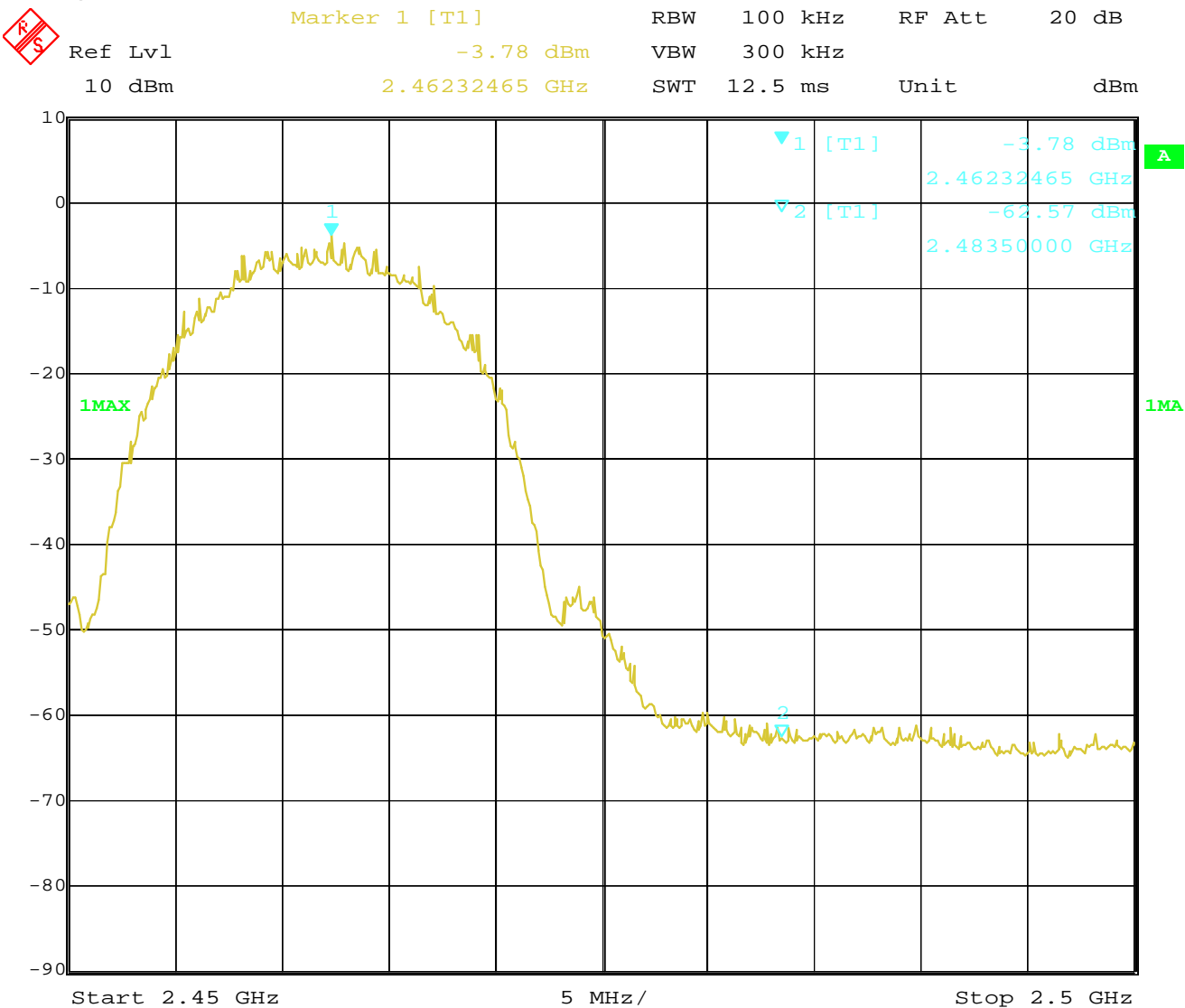


CH11 at 11Mbps

10.4 Band-edge Measurement

EUT	Macvon Reflection	Model	Model R
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:

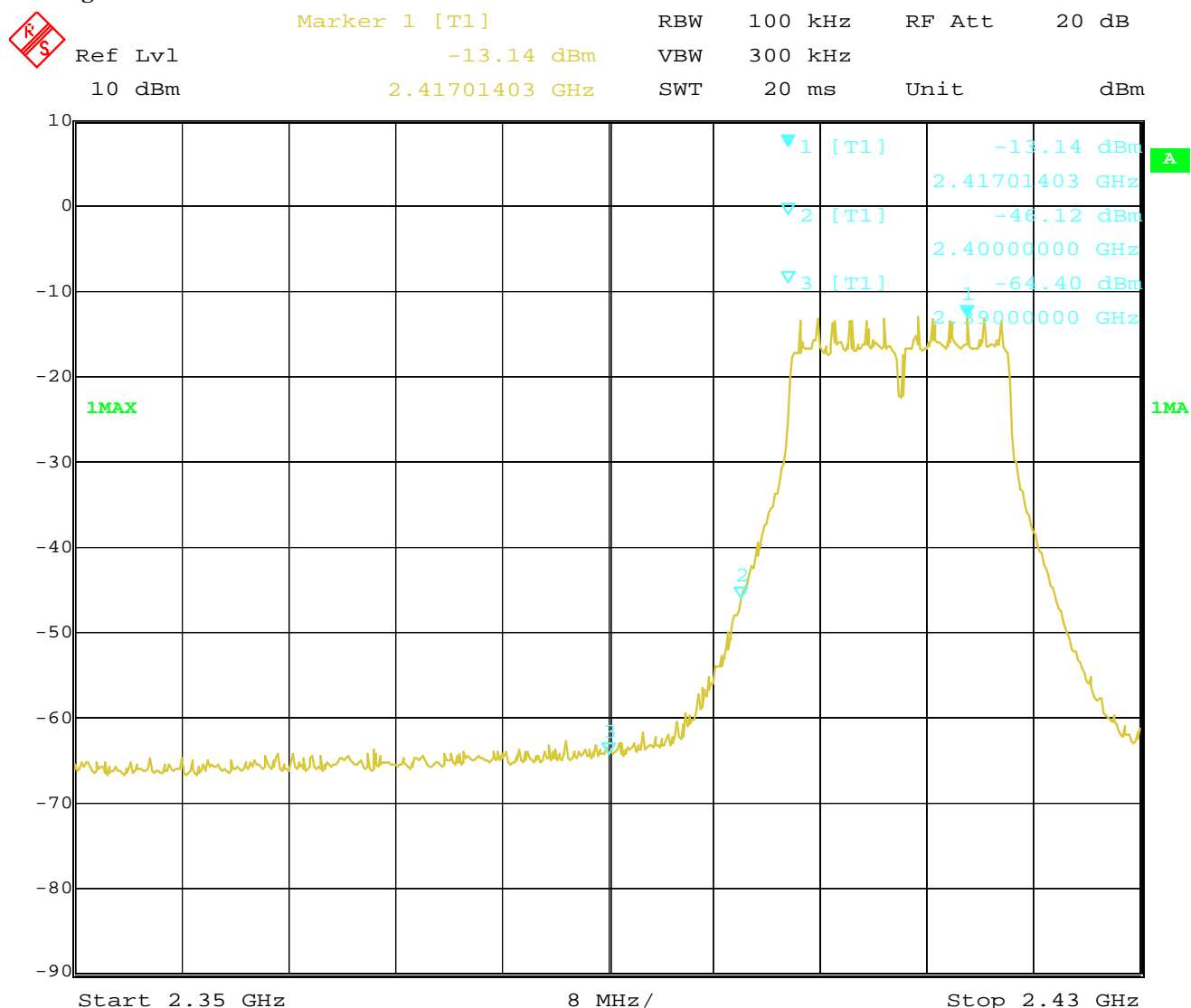


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## 10.4 Band-edge Measurement

EUT	Macvon Reflection	Model	Model R
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



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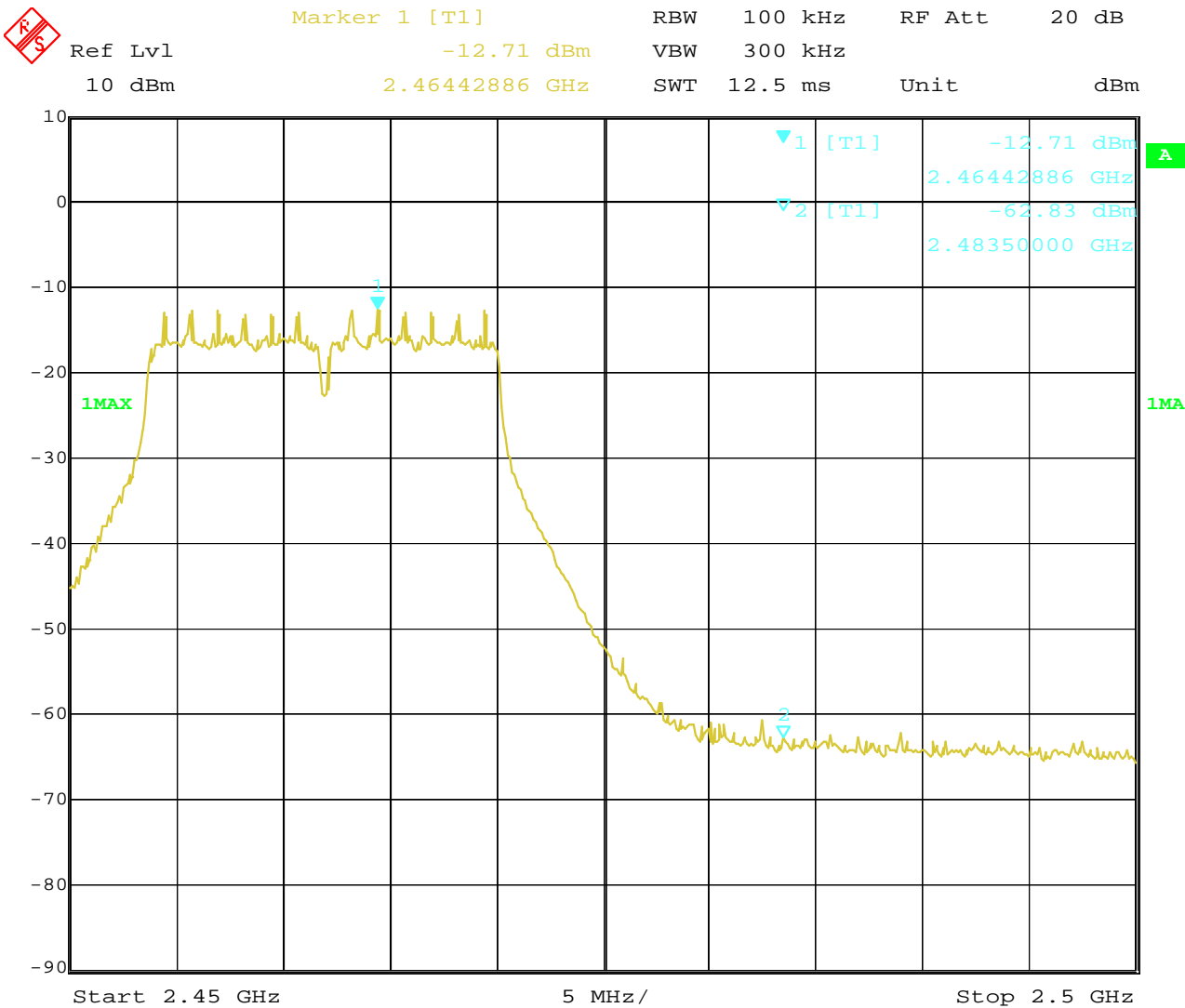


CH11 at 6Mbps

10.4 Band-edge Measurement

EUT	Macvon Reflection	Model	Model R
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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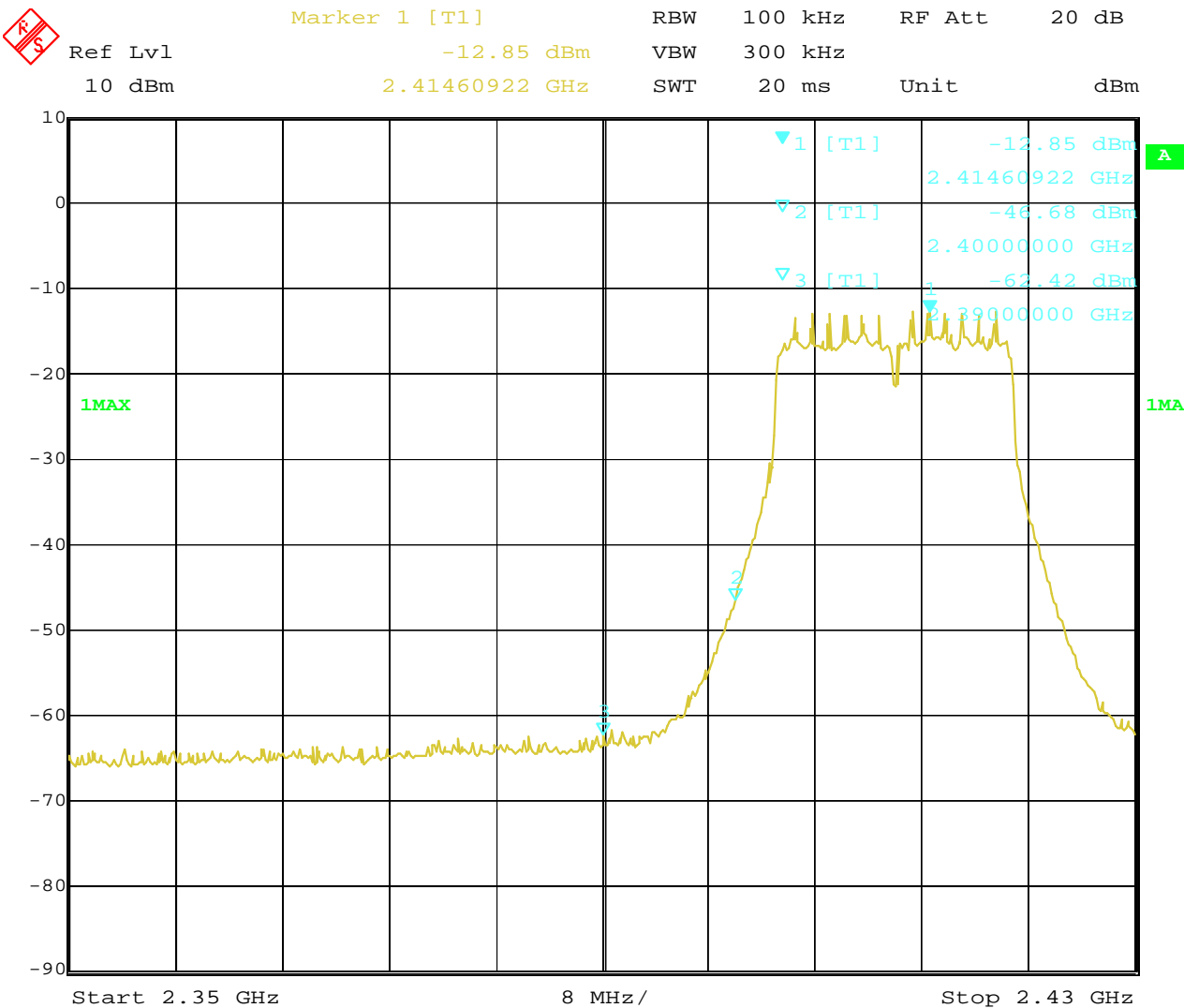
For 802.11n (HT20) mode

CH01 at mcs0

10.4 Band-edge Measurement

EUT	Macvon Reflection	Model	Model R
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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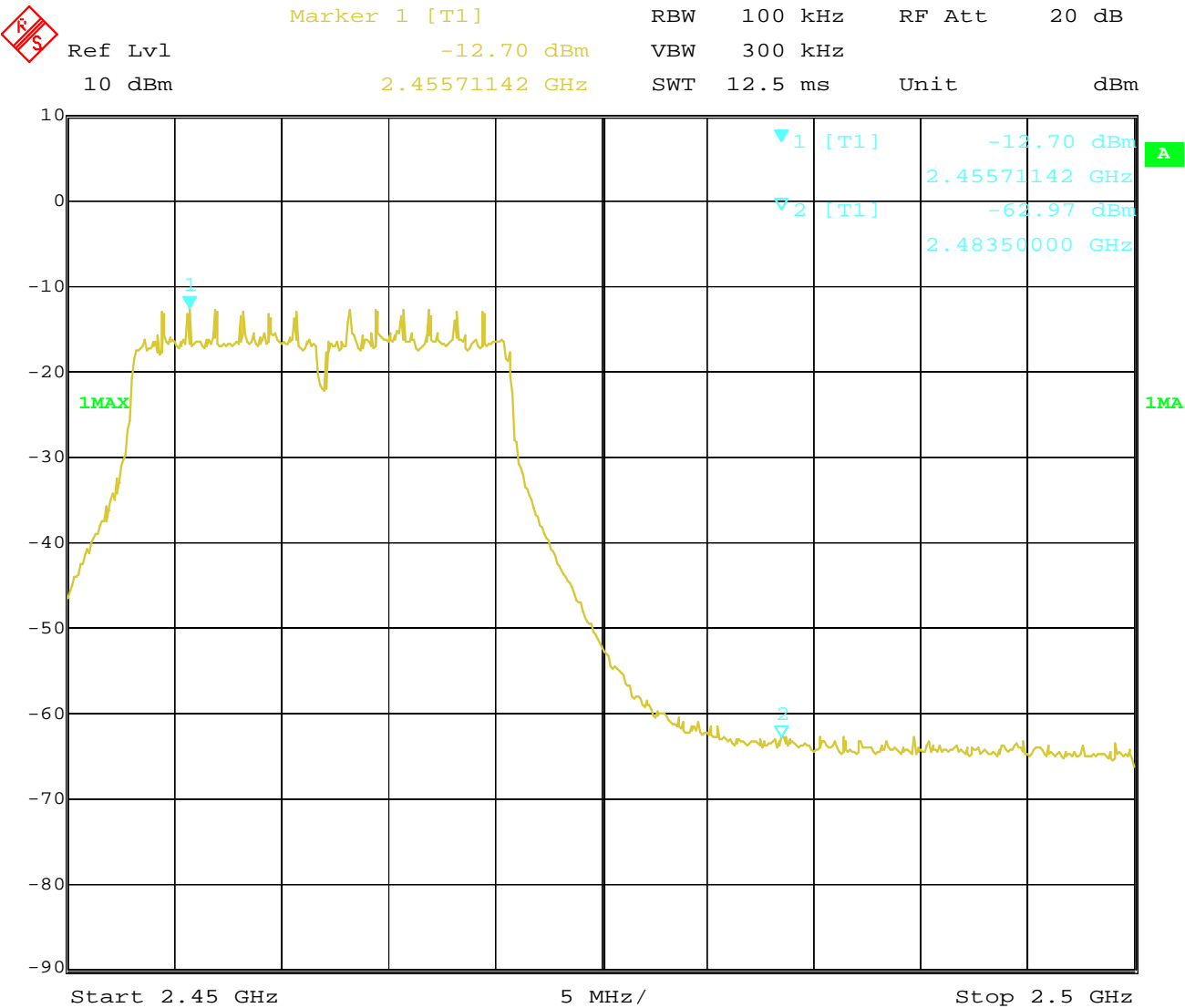


CH11 at mcs0

10.4 Band-edge Measurement

EUT	Macvon Reflection	Model	Model R
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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#### 10.5 Restricted band Measurement

EUT	Macvon Reflection		Model	Model R
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, Low Channel, Horizontal				
2390MHz	PK (dBμV/m)	47.39	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11b mode, Low Channel, Vertical				
2390MHz	PK (dBμV/m)	45.83	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

#### 10.5 Restricted band Measurement

EUT	Macvon Reflection		Model	Model R
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, High Channel, Horizontal				
2483.5MHz	PK (dBμV/m)	53.62	Limit	74(dBμV/m)
	AV (dBμV/m)	36.09		54(dBμV/m)
802.11b mode, High Channel, Vertical				
2483.5MHz	PK (dBμV/m)	51.52	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

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#### 10.5 Restricted band Measurement

EUT	Macvon Reflection		Model	Model R
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, Low Channel, Horizontal				
2390MHz	PK (dBμV/m)	49.05	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11g mode, Low Channel, Vertical				
2390MHz	PK (dBμV/m)	47.63	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

#### 10.5 Restricted band Measurement

EUT	Macvon Reflection		Model	Model R
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, High Channel, Horizontal				
2483.5MHz	PK (dBμV/m)	57.39	Limit	74(dBμV/m)
	AV (dBμV/m)	39.28		54(dBμV/m)
802.11g mode, High Channel, Vertical				
2483.5MHz	PK (dBμV/m)	54.76	Limit	74(dBμV/m)
	AV (dBμV/m)	36.12		54(dBμV/m)

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#### 10.5 Restricted band Measurement

EUT	Macvon Reflection		Model	Model R
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				
2390MHz	PK (dBμV/m)	50.67	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
802.11n HT20 mode, Low Channel, Vertical				
2390MHz	PK (dBμV/m)	49.33	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

#### 10.5 Restricted band Measurement

EUT	Macvon Reflection		Model	Model R
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				
2483.5MHz	PK (dBμV/m)	58.89	Limit	74(dBμV/m)
	AV (dBμV/m)	40.12		54(dBμV/m)
802.11n HT20 mode, High Channel, Vertical				
2483.5MHz	PK (dBμV/m)	56.23	Limit	74(dBμV/m)
	AV (dBμV/m)	38.67		54(dBμV/m)

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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**

Integral antenna used. The antenna gain of 2.0dBi.

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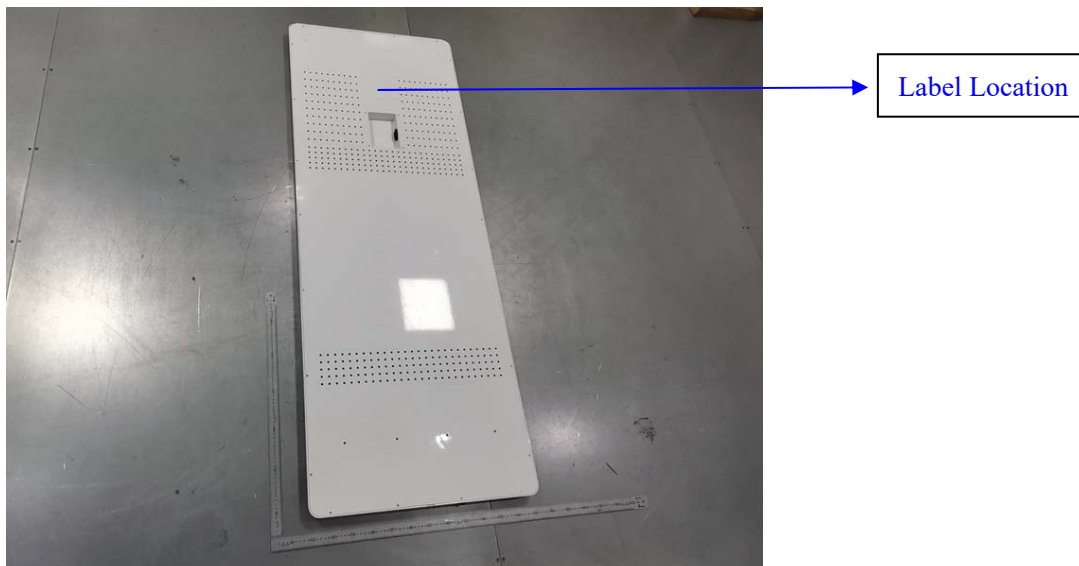
## 12.0 FCC ID Label

**FCC ID: 2AX7UX0278**

**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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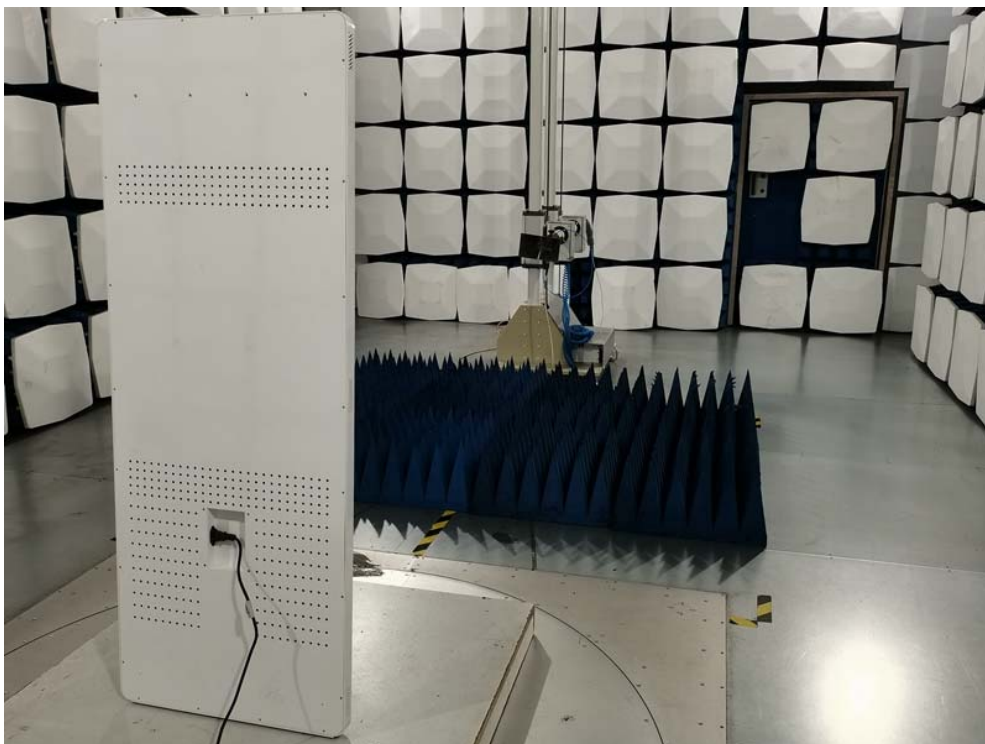
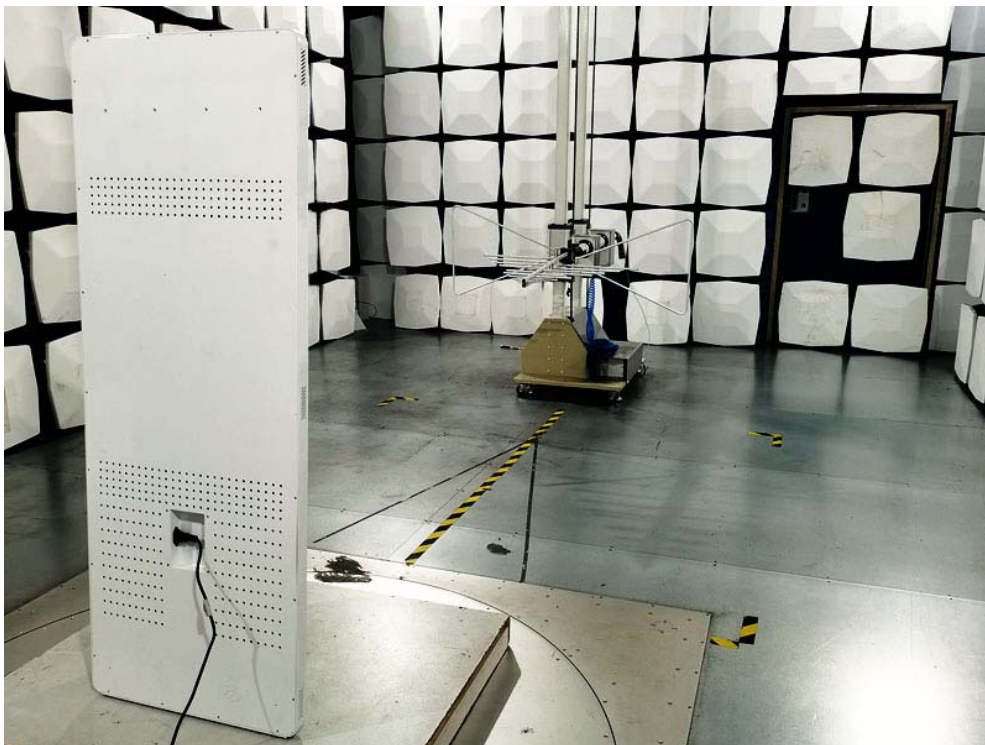
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Radiated Emission Test Setup:



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## Photographs – EUT

Outside View



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Outside View



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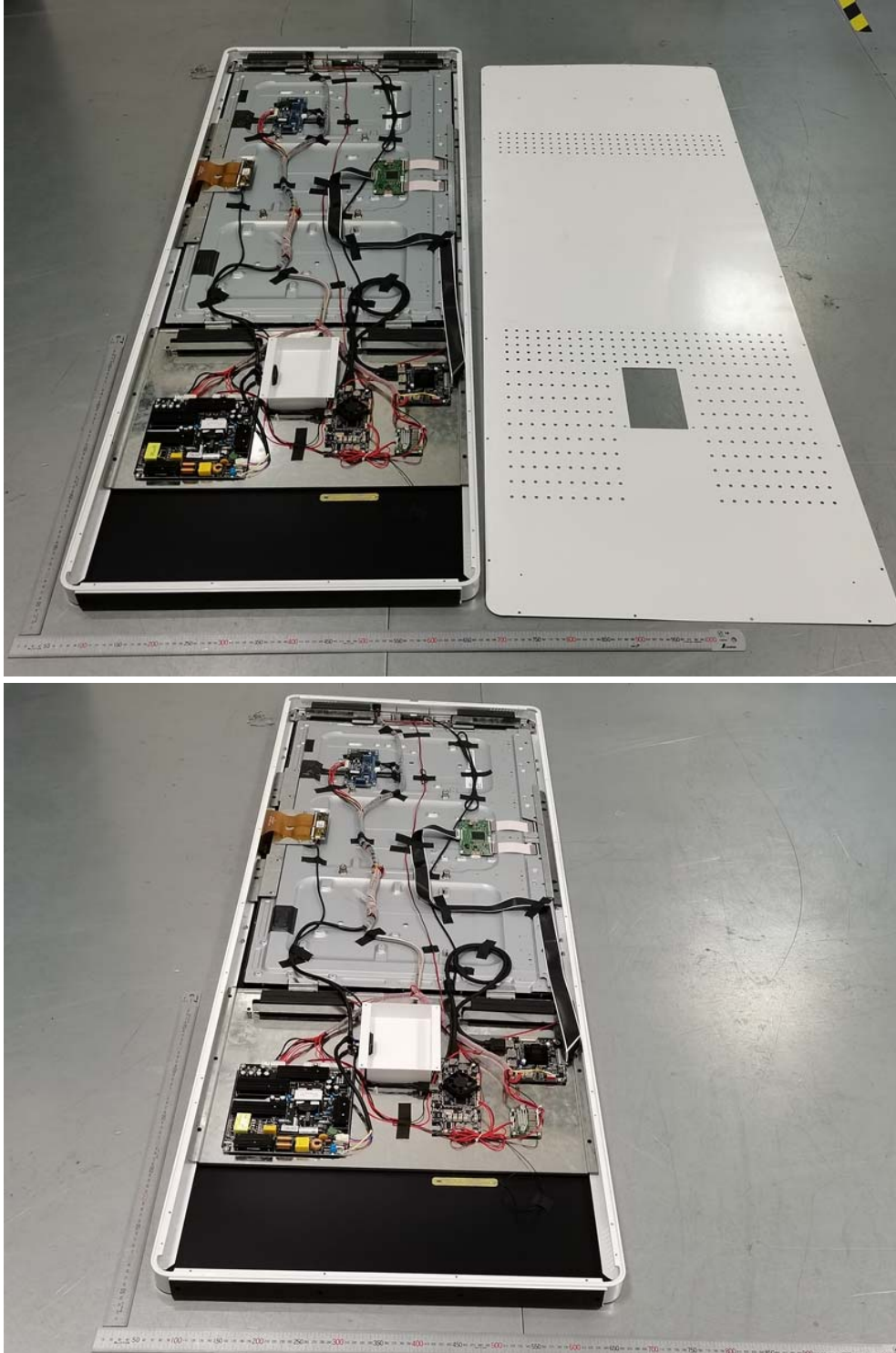
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Inside view



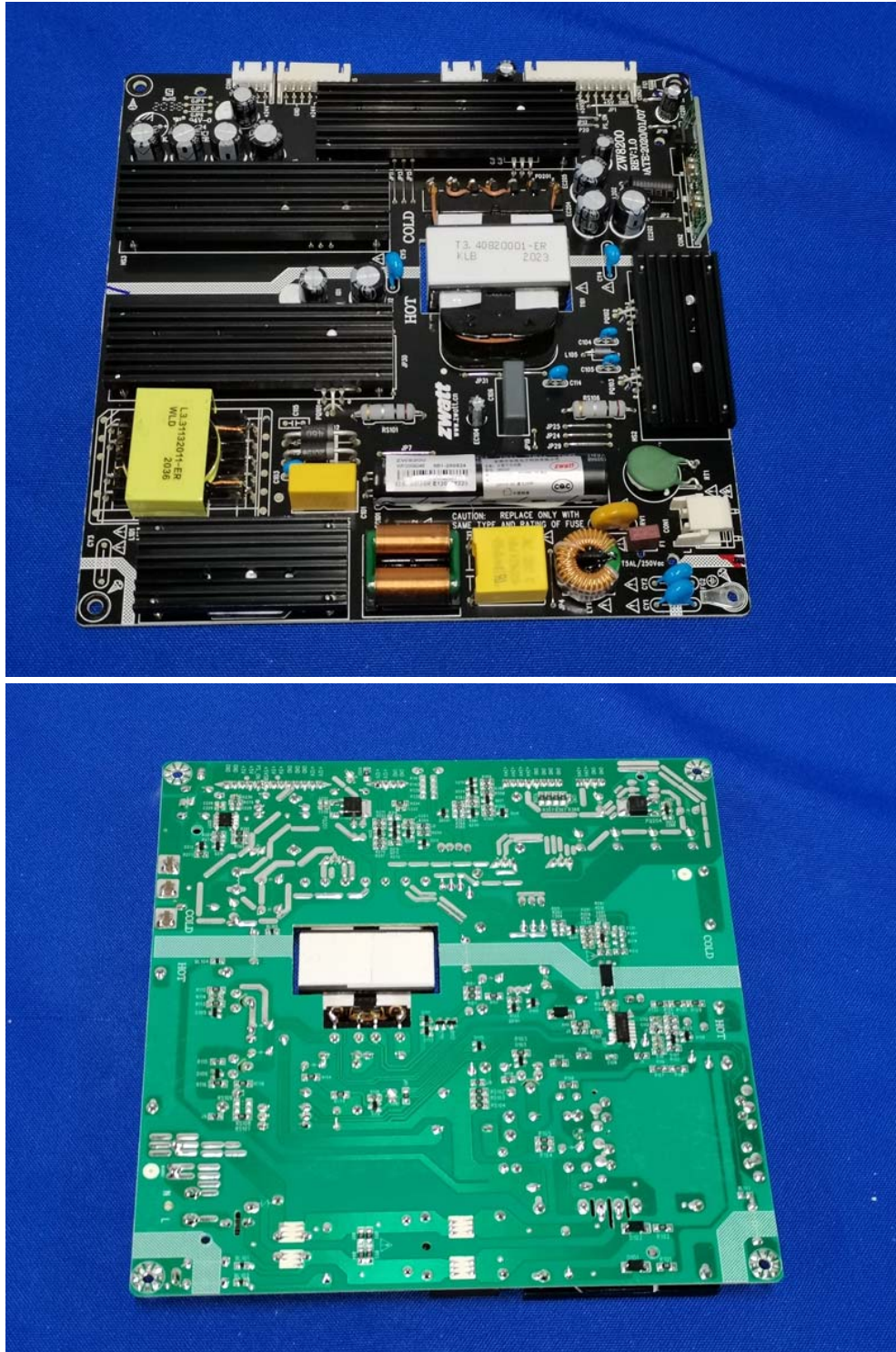
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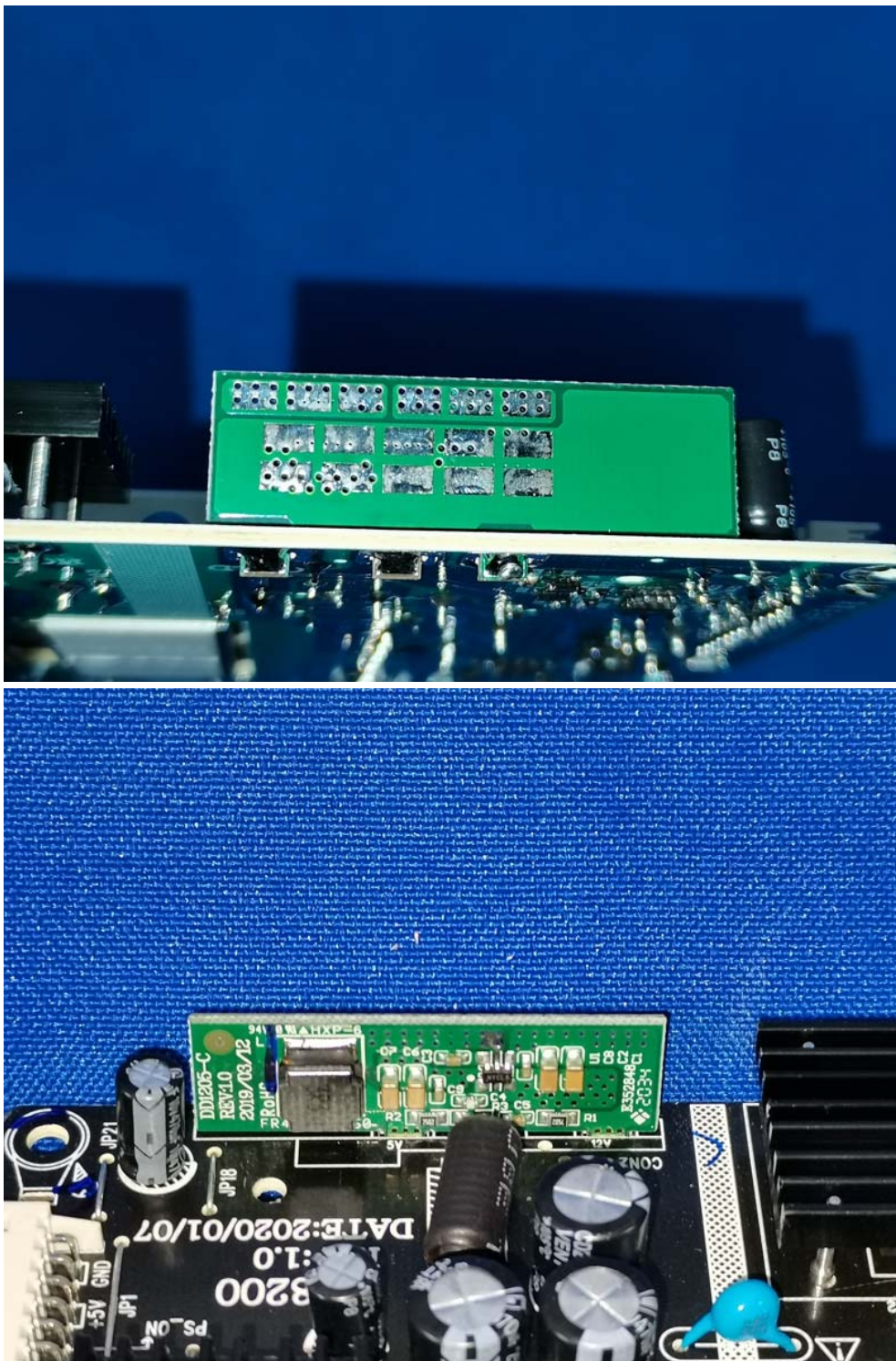
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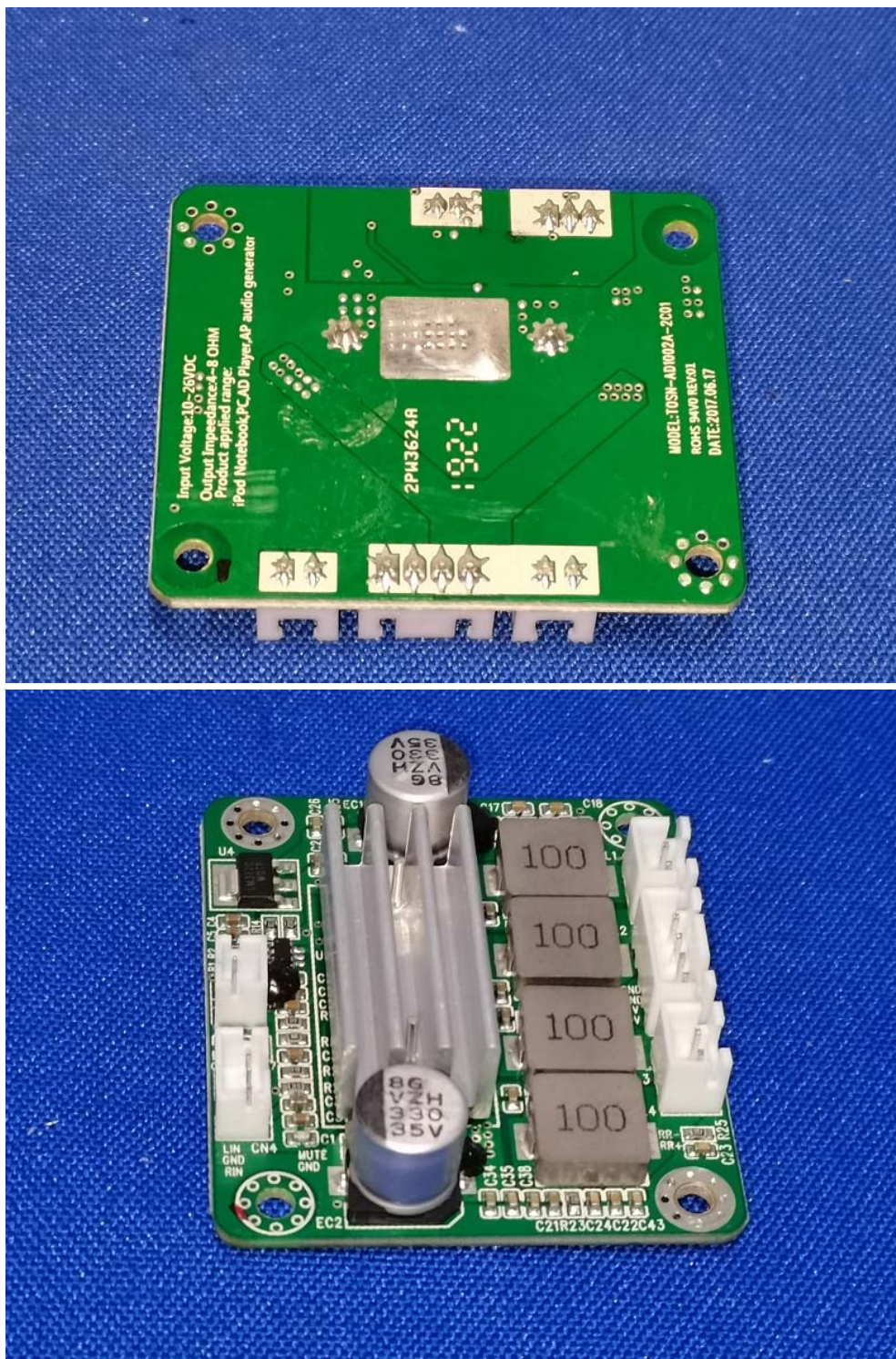
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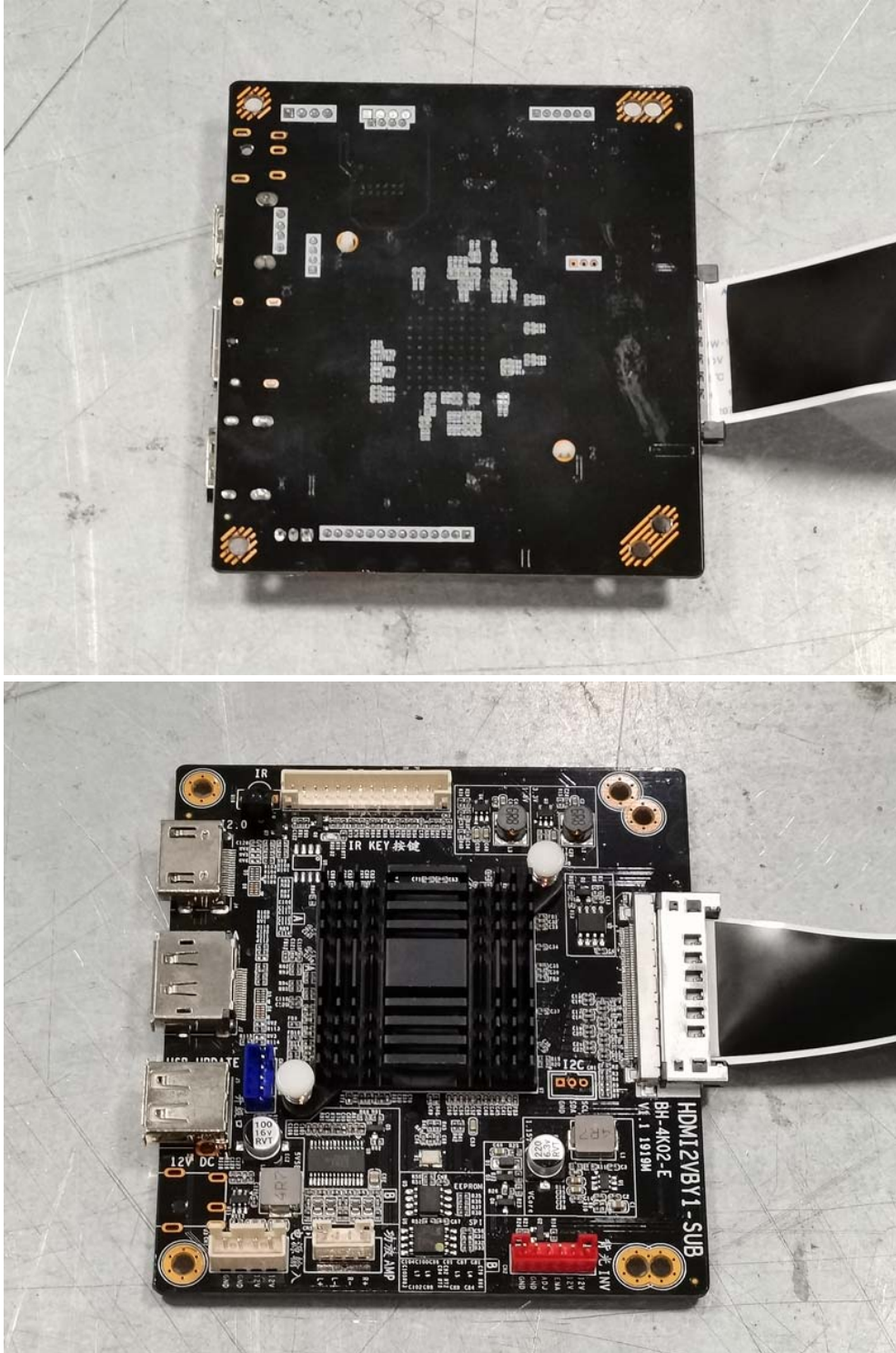
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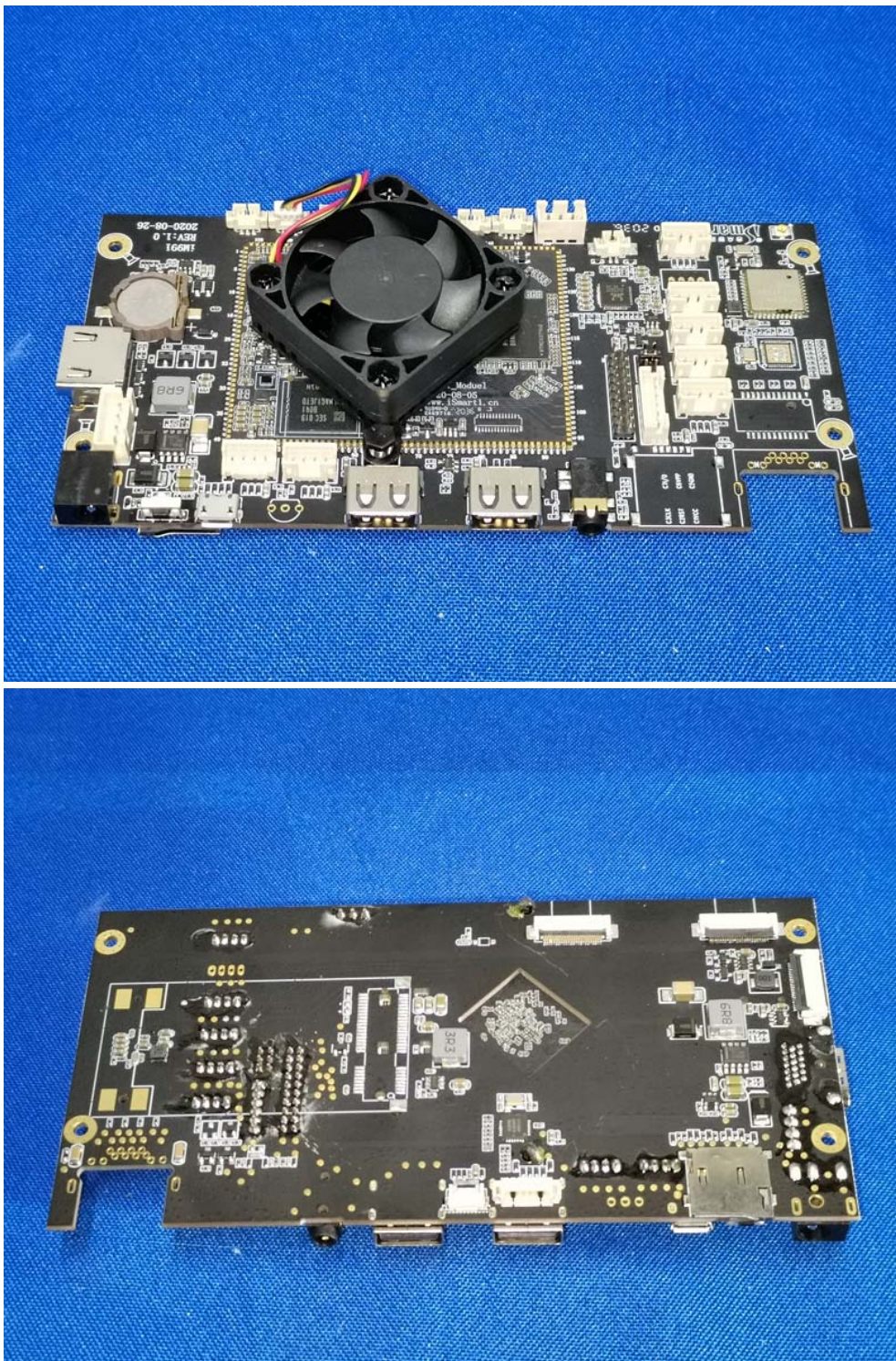
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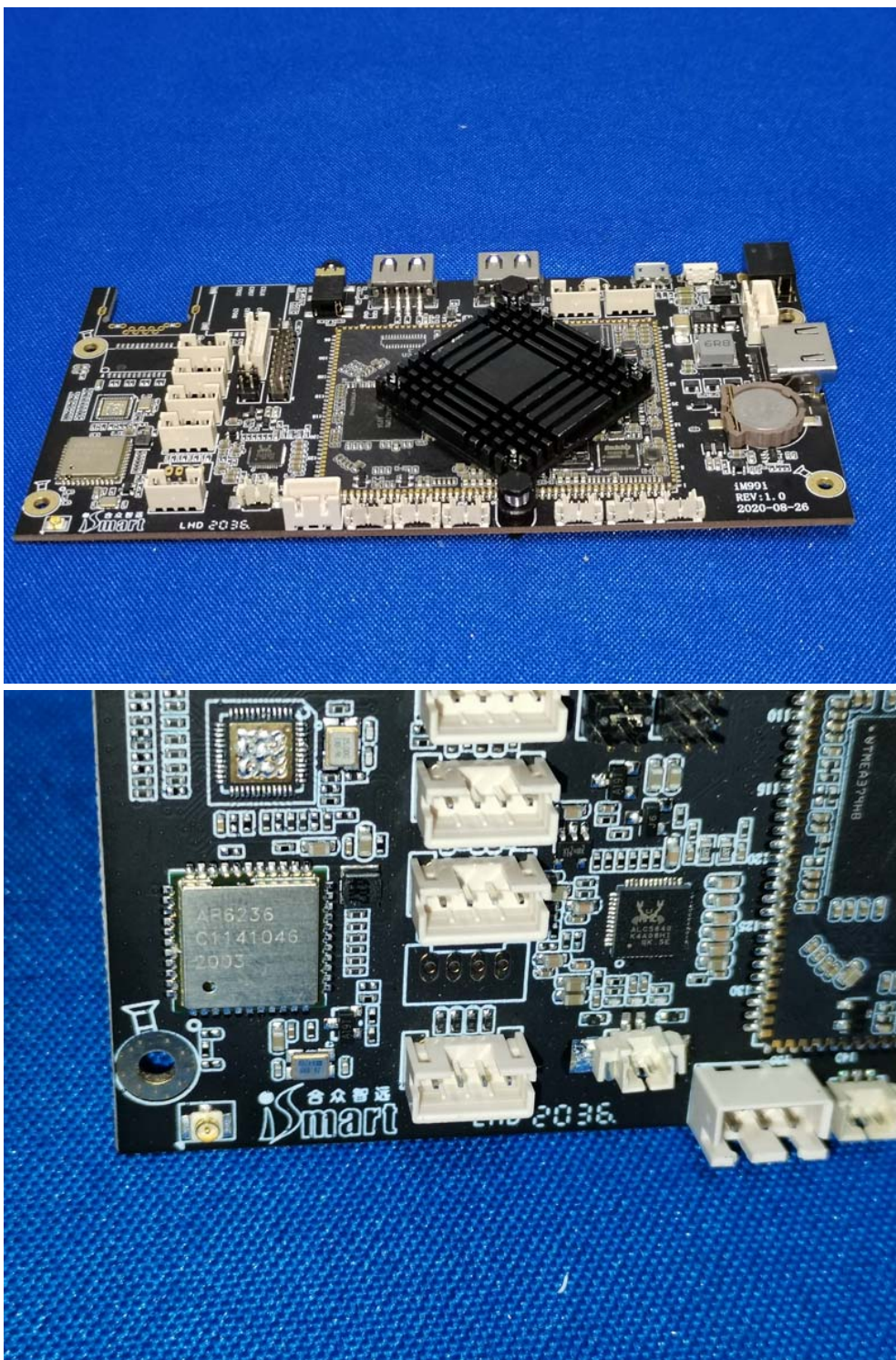
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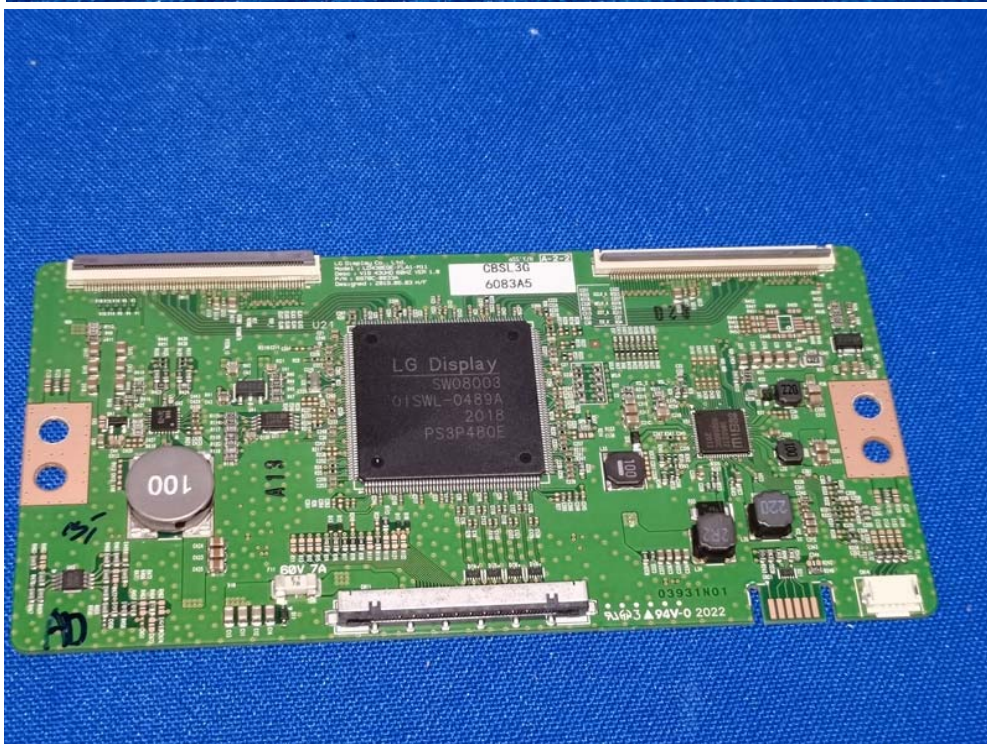
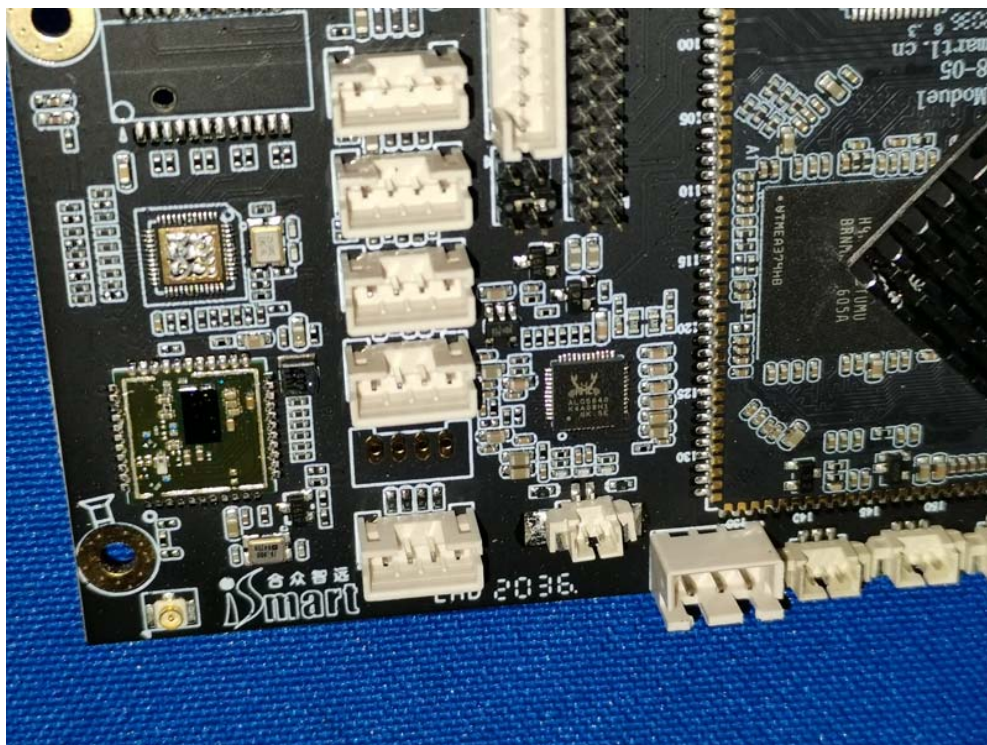
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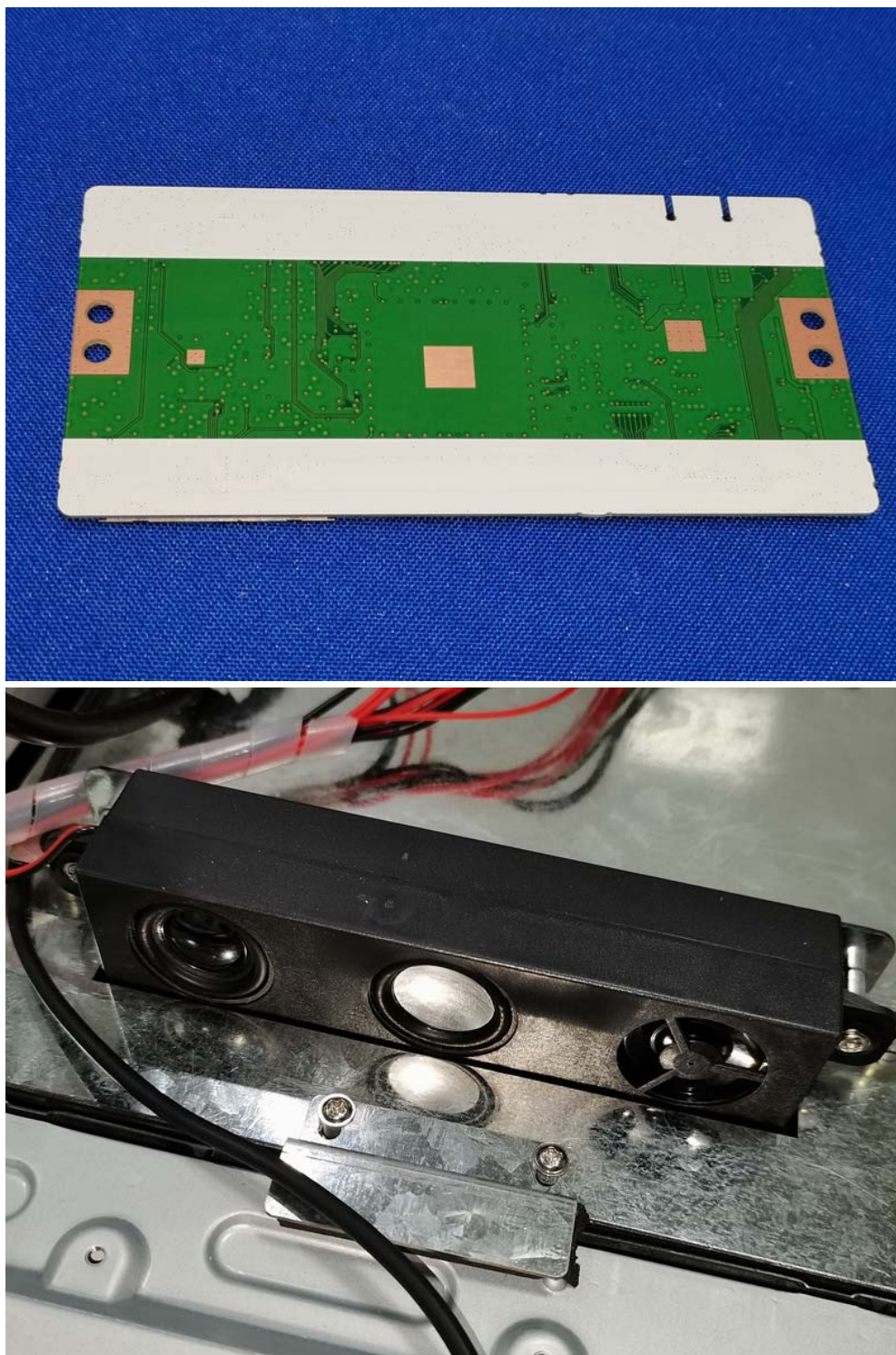
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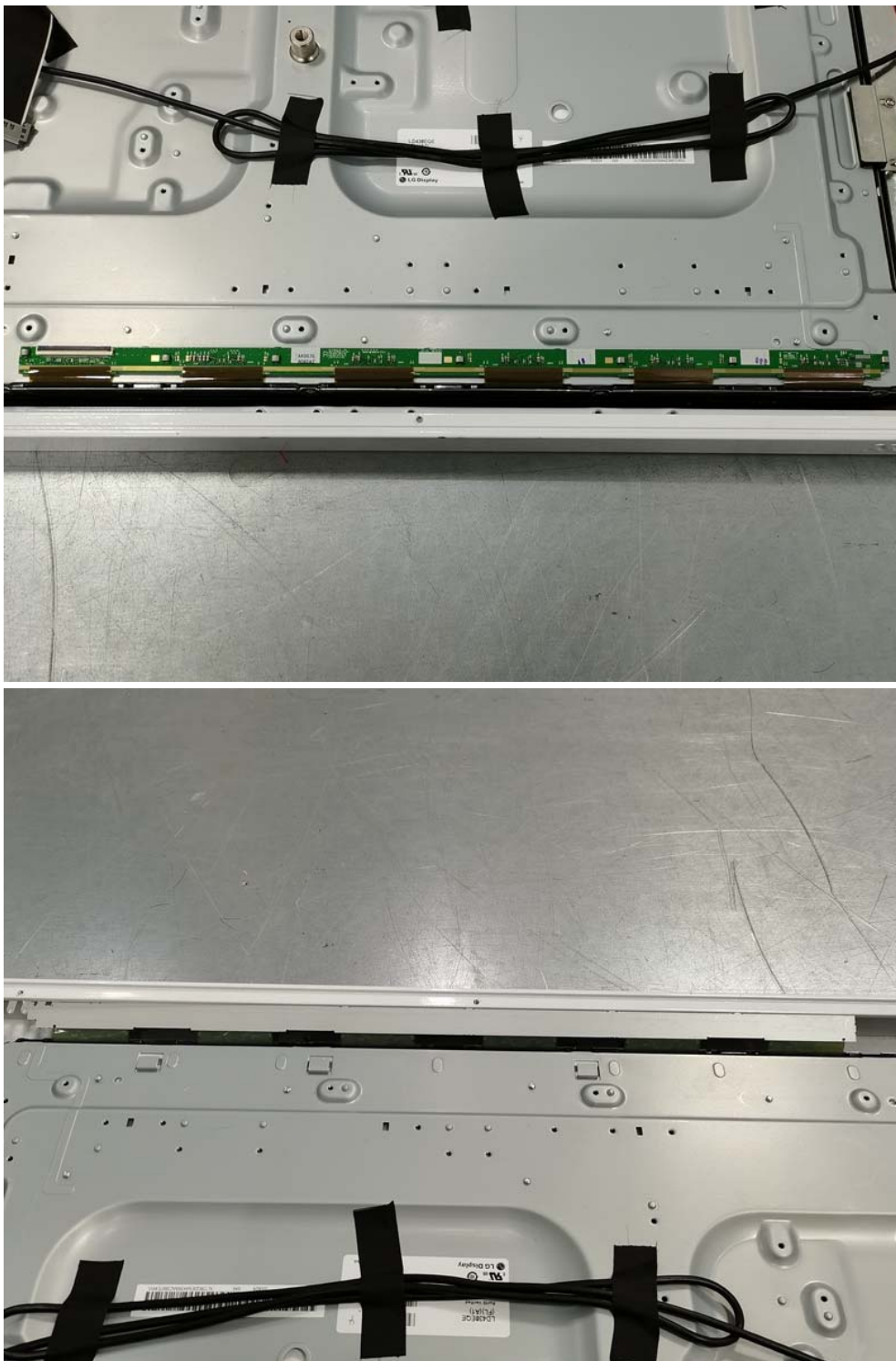
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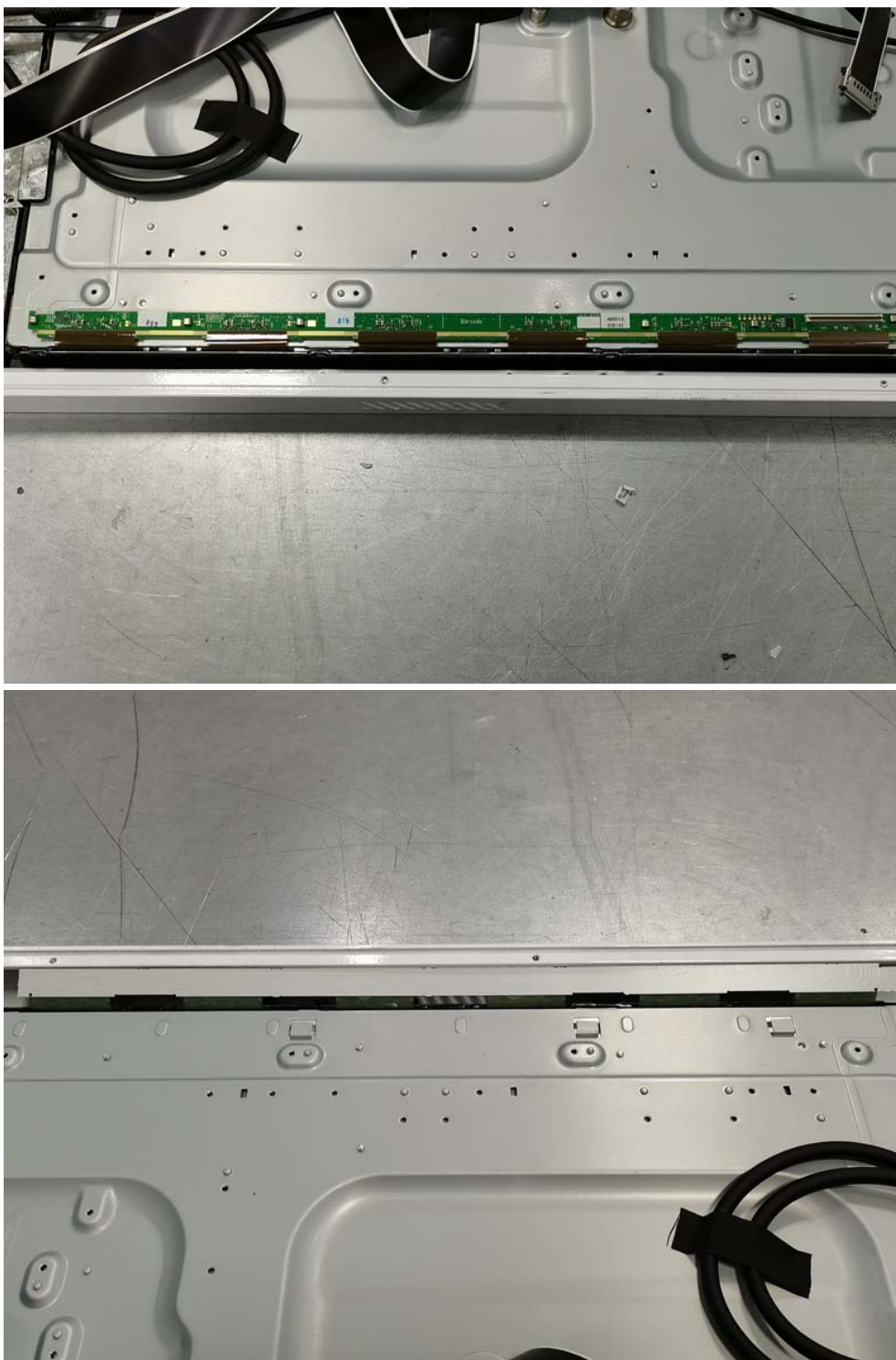
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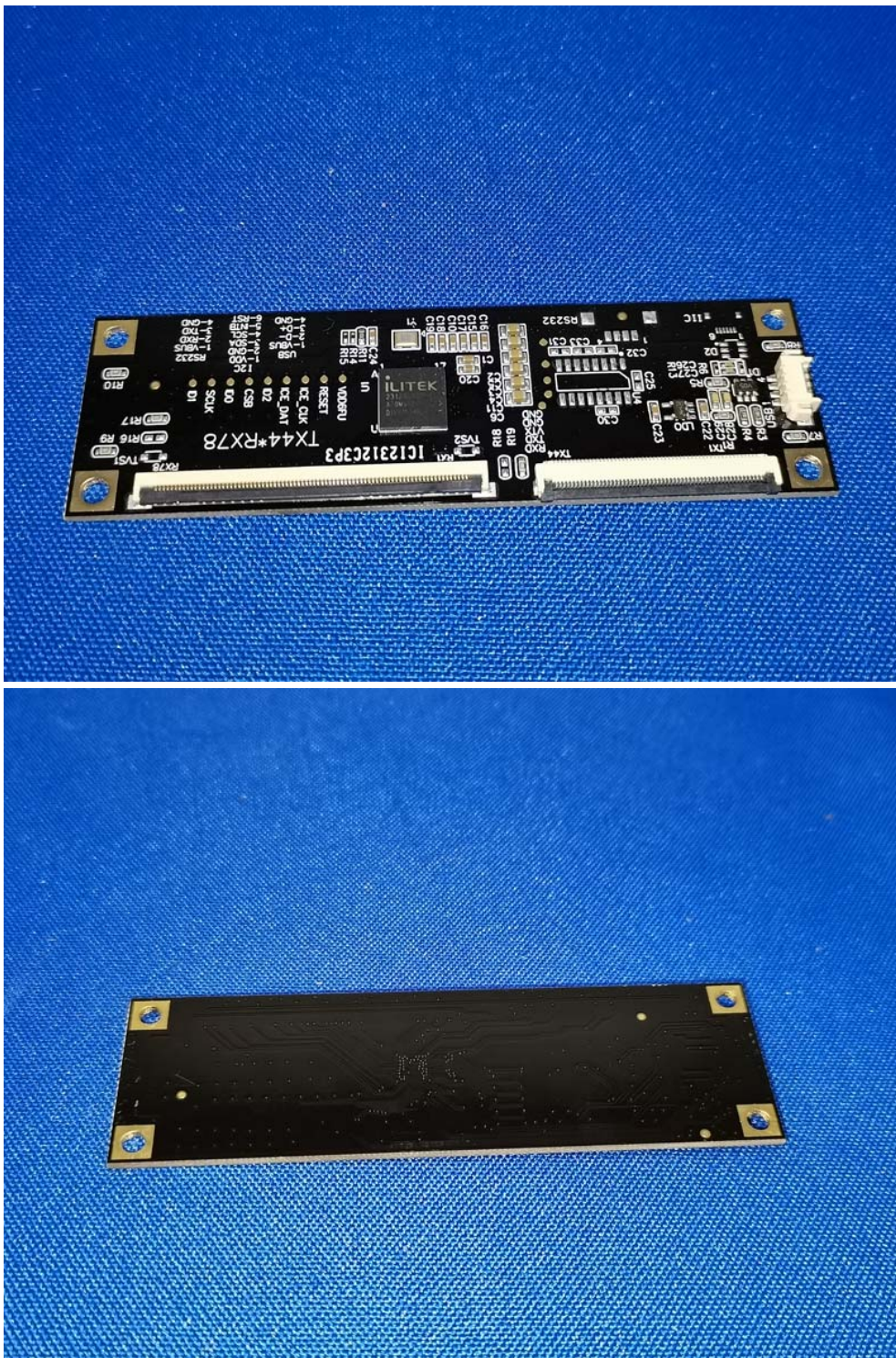
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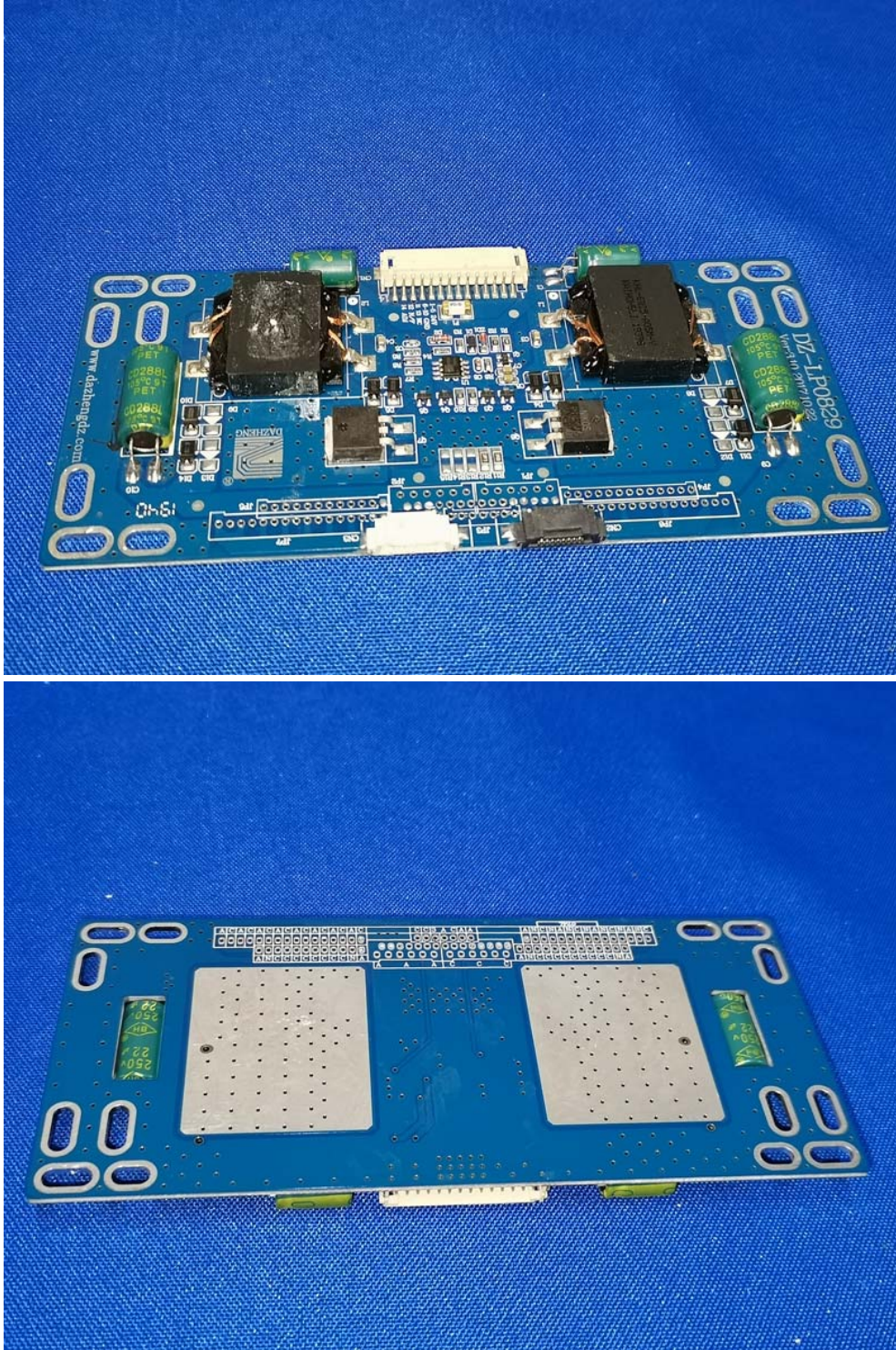
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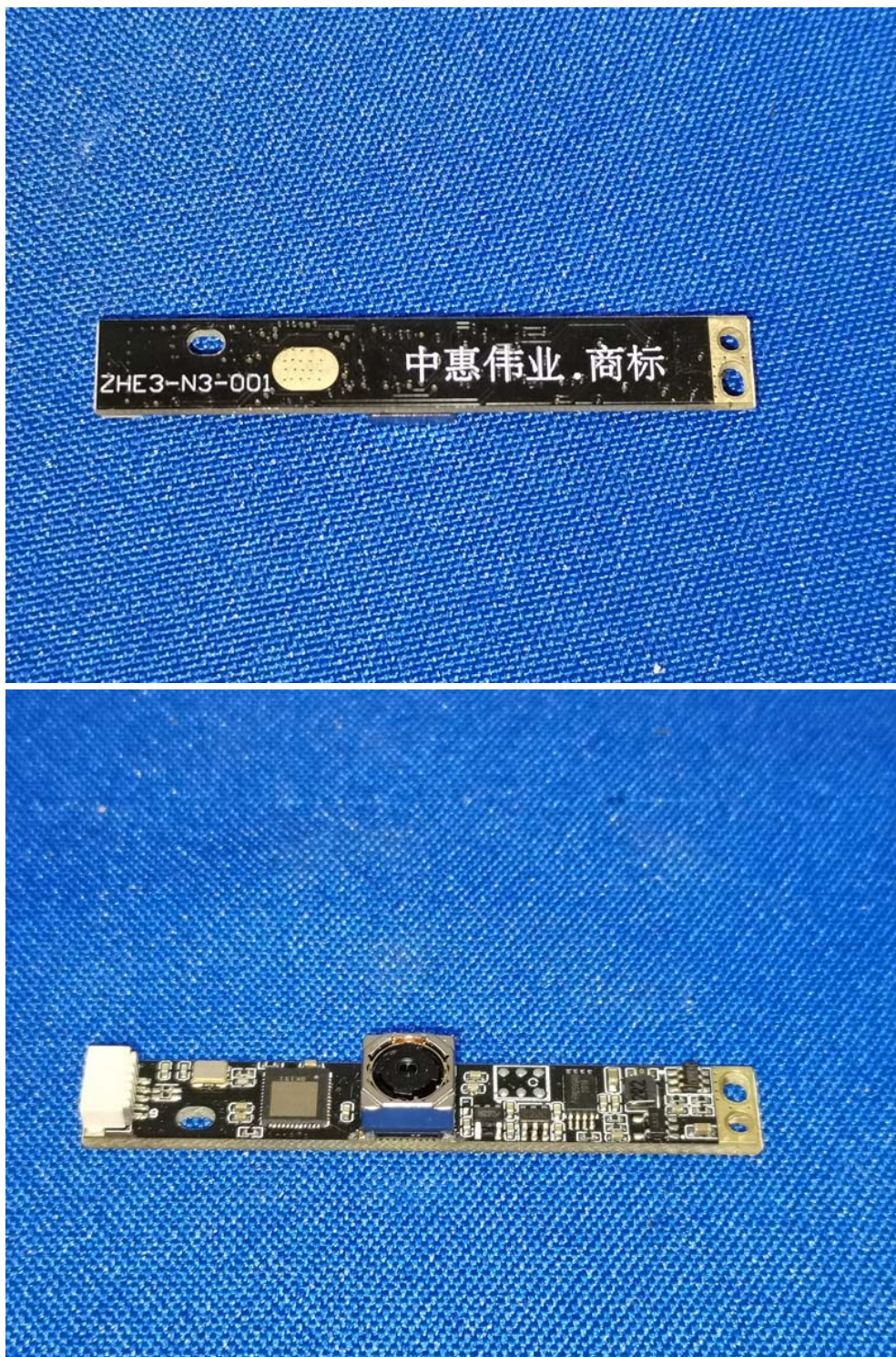
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