

TECHNICAL REPORT



Report No: FCC 1606178-01
File reference No: 2016-07-15

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.

Product: Tablet PC

Model No: F102, ST1009, ST1009x, M10

Trademark: Polaroid, Smartab

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

Jack Chung

Manager

Dated: July 14, 2016

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

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, 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:

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

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.: 899988.

IC- Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Room 512-519,5/F., East Tower,Building 4, Anhua Industrial Zone, Futian District,Shenzhen,
Guangdong China
Telephone: (755) 83448688
Fax: (755) 83442996
Site on File with the Federal Communications Commission – United States
Registration Number: 899988
For 3m & 10 m OATS
Site Listed with Industry Canada of Ottawa, Canada
Registration Number: IC: 5205A-02
For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.
Address: 4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen, China
Telephone: --
Fax: --

1.3 Description of EUT

Product: Tablet PC
Manufacturer: Shenzhen Jingwah Information Technology Co., Ltd.
Address: 4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District,
Shenzhen, China
Brand Name: Polaroid, Smartab
Model Number: F102
Additional Model Number: ST1009, ST1009x, M10
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 : 150, 135, 117 ,104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6.5 Mbps
Frequency Selection By software
Channel Number IEEE 802.11b/g/n (HT20) : 11 Channels
Antenna: Integral Antenna and the maximum Gain of this antenna is 2.0dBi;
Power Adapter Model No.: TPA-97050150U01
Input: 100-240V, 50/60Hz, 0.3A; Output: 5.0V, 1.5A

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Remark: There are alternative manufacturers for TP, Camera and Panel. EUT are configured as following

Name	Manufacturer	Model
Configure a)		
TP	HOTATOUCH	F102 P+G
Camera	Shenzhen Best Camera Electronic Technique	F102 GC0310+GC2355
Panel	STARRY ELECTRONIC TECHNOLOGY	20811010280028
Configure b)		
TP	Shenzhen Leheng Electronic	F102 P+G
Camera	Shenzhen BOPENGFA ELEC&TECHNOLOGY	F102 GC0310+GC2355
Panel	Shenzhen K&D Technology	KD101N66-40NI-K2

Note: Configure a) and b) are tested and only worse case are recorded in the test report

1.4 Submitted Sample: 2 Samples

1.5 Test Duration
2016-06-23 to 2016-07-14

1.6 Test Uncertainty
Conducted Emissions Uncertainty =3.6dB
Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer 

The sample tested by _____

Print Name: Terry Tang



2.0 Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2015-08-22	2016-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2015-08-22	2016-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2015-08-22	2016-08-21
Ultra Broadband ANT	R&S	HL562	100157	2015-08-23	2016-08-22
ESDV Test Receiver	R&S	ESDV	100008	2015-08-22	2016-08-21
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2015-08-22	2016-08-21
System Controller	CT	SC100	-	--	--
Printer	EPSON	PHOTO EX3	CFNH234850	--	--
Computer	IBM	8434	1S8434KCE99BLXLO*	-	-
Loop Antenna	EMCO	6502	00042960	2015-08-23	2016-08-22
ESPI Test Receiver	R&S	ESI26	838786/013	2015-08-22	2016-08-21
3m OATS	--	--	N/A	2015-08-24	2016-08-23
Horn Antenna	R&S	BBHA 9170	BBHA9170265	2015-08-24	2016-08-23
Horn Antenna	R&S	BBHA 9120D	9120D-631	2015-08-24	2016-08-23
Power meter	Anritsu	ML2487A	6K00003613	2015-08-22	2016-08-21
Power sensor	Anritsu	MA2491A	32263	2015-08-22	2016-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2015-08-23	2016-08-21
LISN	AFJ	LS16C	10010947251	2015-08-22	2016-08-21
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2015-08-23	2016-08-22
9*6*6 Anechoic	--	--	N/A	2015-08-24	2016-08-23
EMI Test Receiver	RS	ESCS30	100139	2015-08-22	2016-08-21
Pre-amplifier	EM	EM30265	2727A05017	2015-08-24	2016-08-23

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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 data rate (worst case) were chosen for full testing

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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 and KDB558074 D01 DTS Meas Guidance v03r05

4.0 EUT Modification

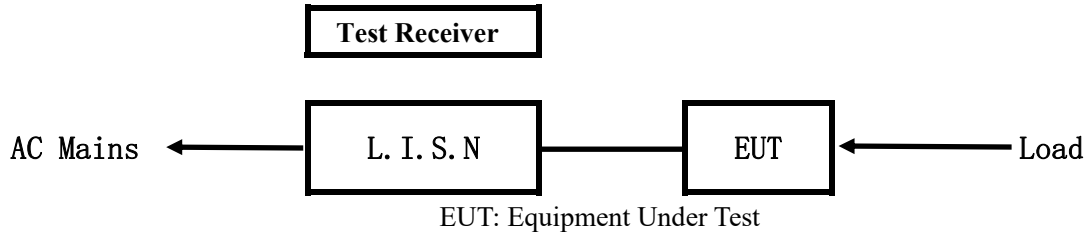
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

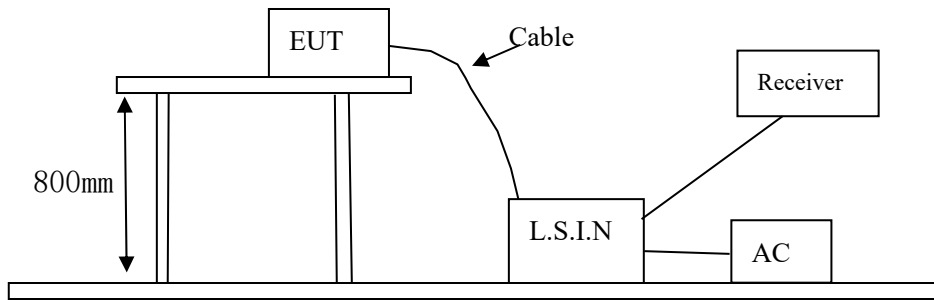


5.2 Test Method and test Procedure

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
Tablet PC	Shenzhen Jingwah Information Technology Co., Ltd.	F102, ST1009, ST1009x, M10	FCC ID : RBD-F102

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
--	--	--	--	--

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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 and 15.107

Frequency (MHz)	Class A Limits (dB μ V)		Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

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

5.6 Test Results

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



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

EUT Operating Environment

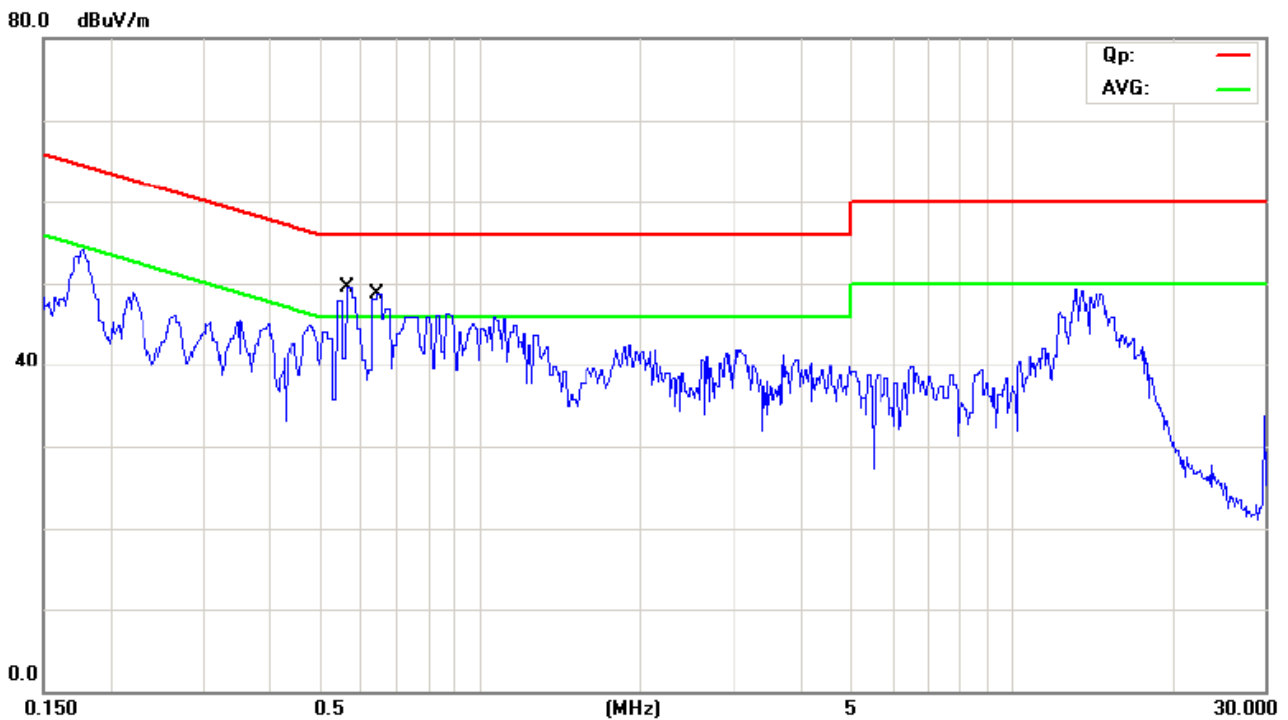
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep WIFI Transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.5658	34.80	11.44	46.24	56.00	-9.76	QP	
2		0.5658	7.30	11.44	18.74	46.00	-27.26	AVG	
3		0.6440	33.90	11.52	45.42	56.00	-10.58	QP	
4		0.6440	5.00	11.52	16.52	46.00	-29.48	AVG	

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

EUT Operating Environment

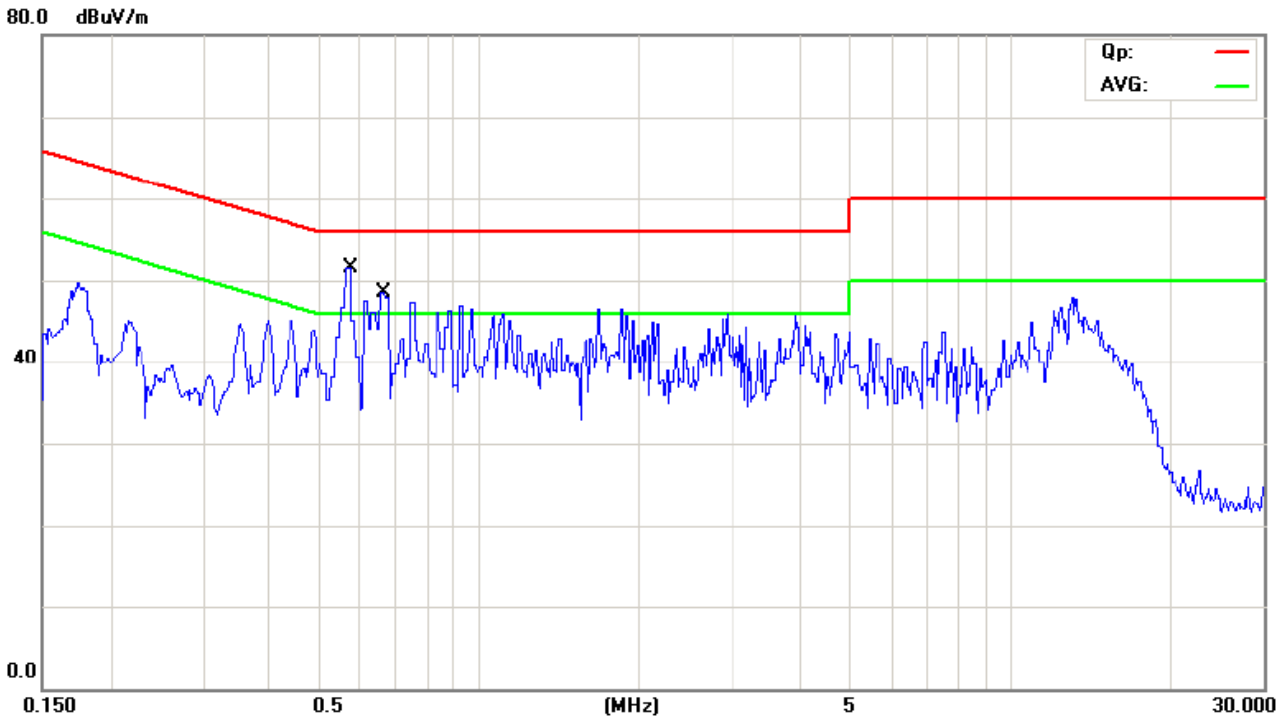
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep WIFI Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.5678	32.40	11.44	43.84	56.00	-12.16	QP	
2		0.5678	5.60	11.44	17.04	46.00	-28.96	AVG	
3		0.6610	30.80	11.54	42.34	56.00	-13.66	QP	
4		0.6610	8.30	11.54	19.84	46.00	-26.16	AVG	

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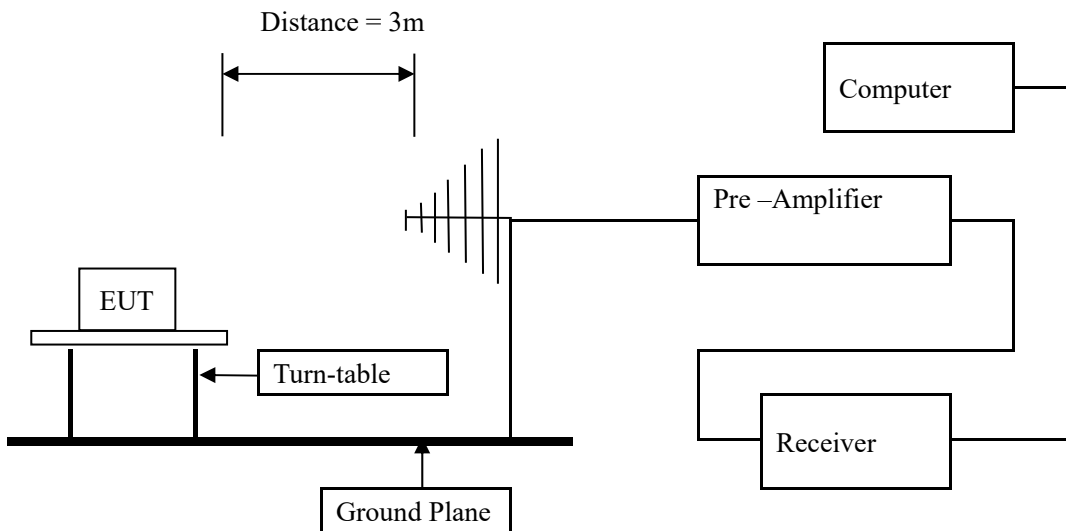


6 Radiated Emission Test

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 Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (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



- 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.

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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 and 15.109 and RSS-210

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

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Keep Transmitting

Results: Pass

Frequency (MHz)	Reading (dB μ V)	Antenna Factor (dB/m)	Cable Loss (dB)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
377.160	17.53	13.06	4.76	35.35	H	46.00
239.920	22.18	9.11	3.03	34.32	H	46.00
179.520	17.20	8.20	2.55	27.95	V	40.00
293.720	16.85	10.81	1.40	29.06	V	46.00

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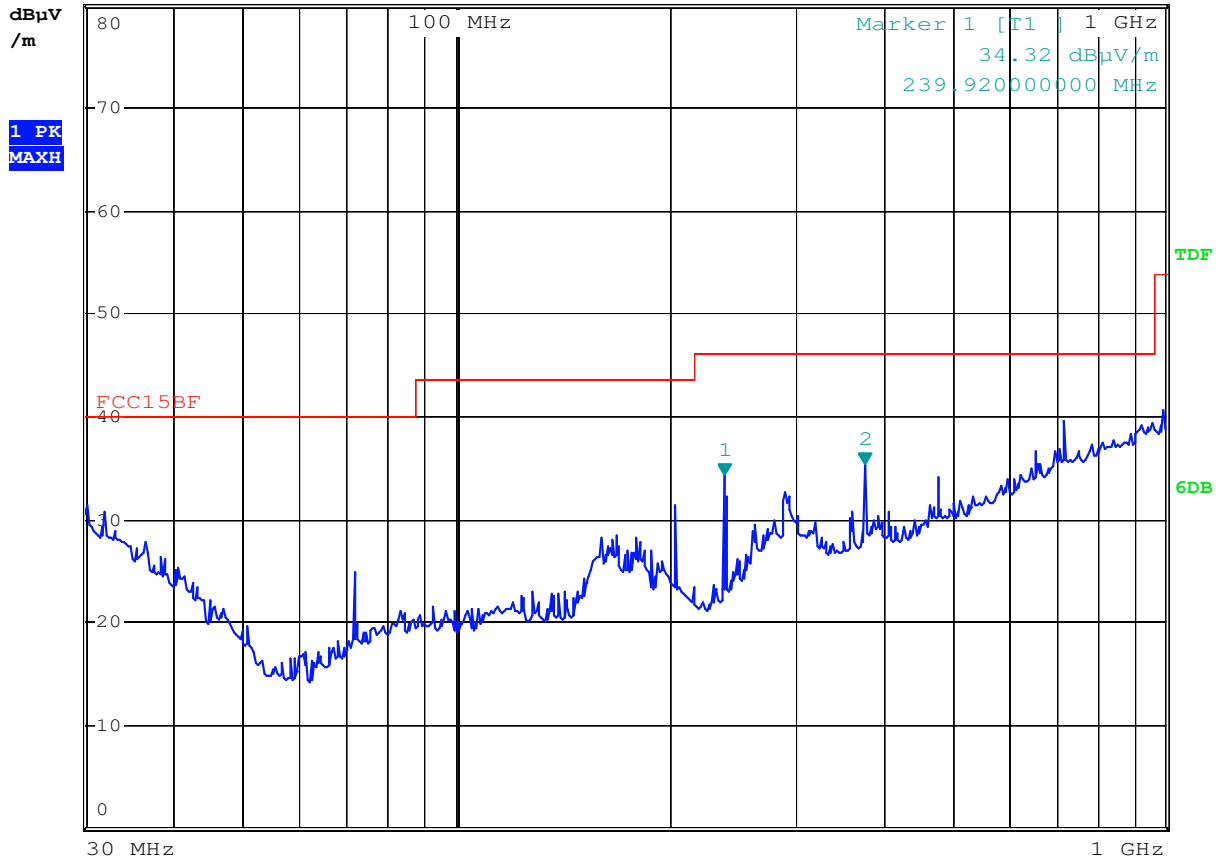
Test Figure:

H



MARKER 2
 377.16 MHz
 Att 10 dB

RBW 120 kHz Marker 2 [T1]
 MT 50 μ s 35.35 dB μ V/m
 PREAMP ON 377.160000000 MHz



Date: 24.JUN.2016 18:21:02

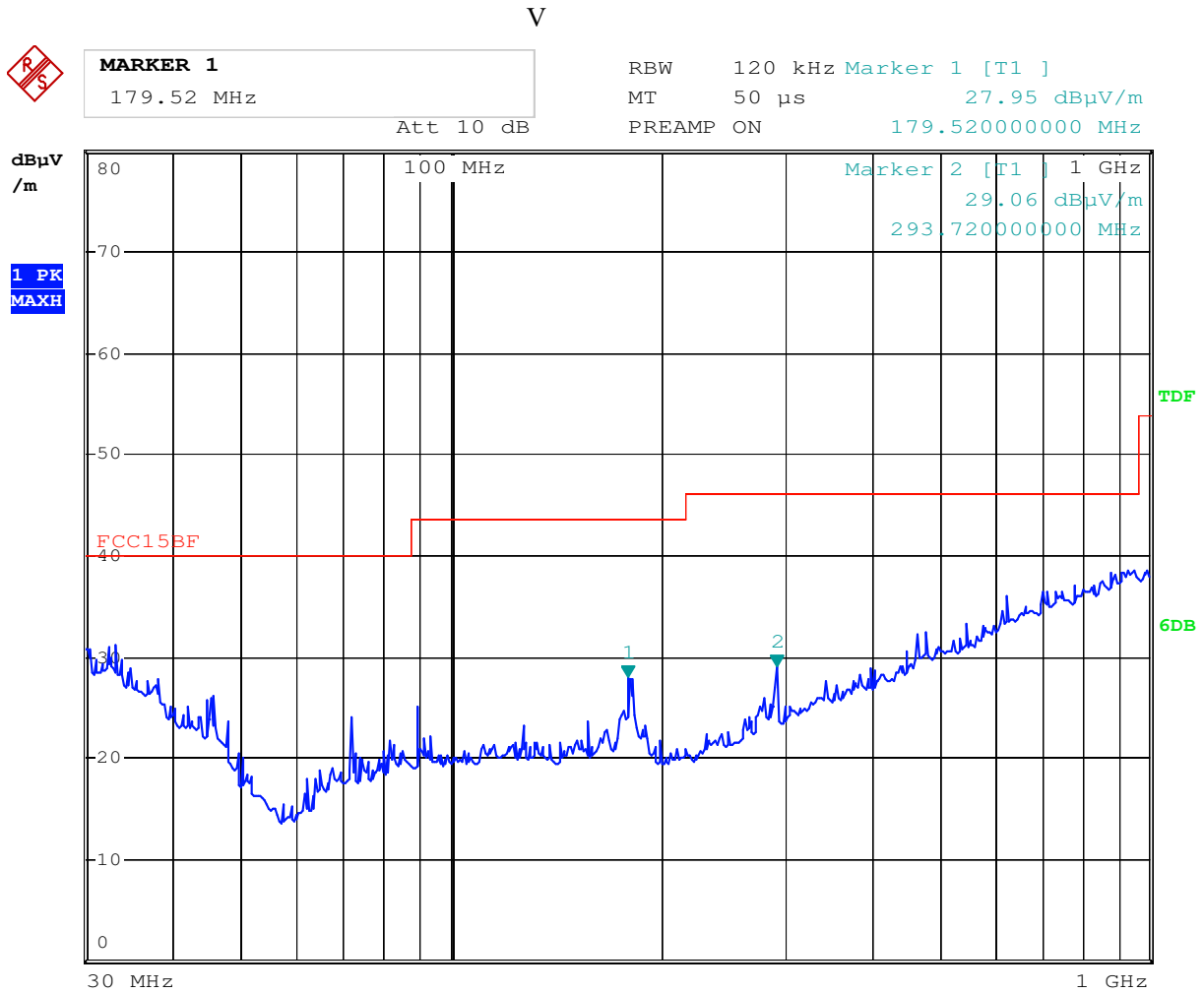
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Test Figure:



Date: 24.JUN.2016 18:23:41

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Operation Mode: Transmitting under CH01 for 11g at 6Mbps

Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
4824.00	51.00	30.8	4.64	35.16	51.28 (PK)	H	74(Peak)/ 54(AV)
4824.00	52.04	30.8	4.64	35.16	52.32 (PK)	V	74(Peak)/ 54(AV)
7236.00	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
9648.00	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
12060	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
14472	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
16884	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
19296	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
21708	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
24120	--	---	--	--	--	H/V	74(Peak)/ 54(AV)

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

Operation Mode: Transmitting under CH06 for 11g at 6Mbps

Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
4874.00	49.94	30.9	4.70	35.22	50.32 (PK)	V	74(Peak)/ 54(AV)
4874.00	50.09	30.9	4.70	35.22	50.47 (PK)	H	74(Peak)/ 54(AV)
7311.00	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
9748.00	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
12185	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
14622	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
17059	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
19496	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
21933	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
24370	--	---	--	--	--	H/V	74(Peak)/ 54(AV)

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

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Operation Mode: Transmitting under CH11 for 11g at 6Mbps

Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
4924	51.11	31.20	4.71	35.44	51.58 (PK)	H	74(Peak)/ 54(AV)
4924	50.67	31.20	4.71	35.44	51.14 (PK)	V	74(Peak)/ 54(AV)
7368	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
9848	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
12310	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
14772	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
17234	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
19696	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
22158	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
24620	--	---	--	--	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp , Margin = Level - Limit

2. Remark “---” means that the emissions level is too low to be measured

3. For 802.11g mode 6Mbps

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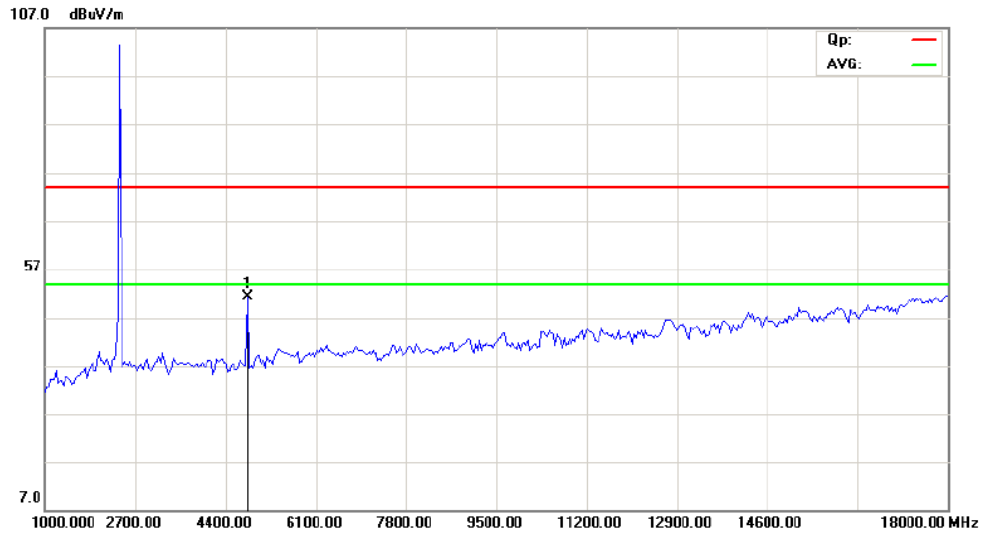
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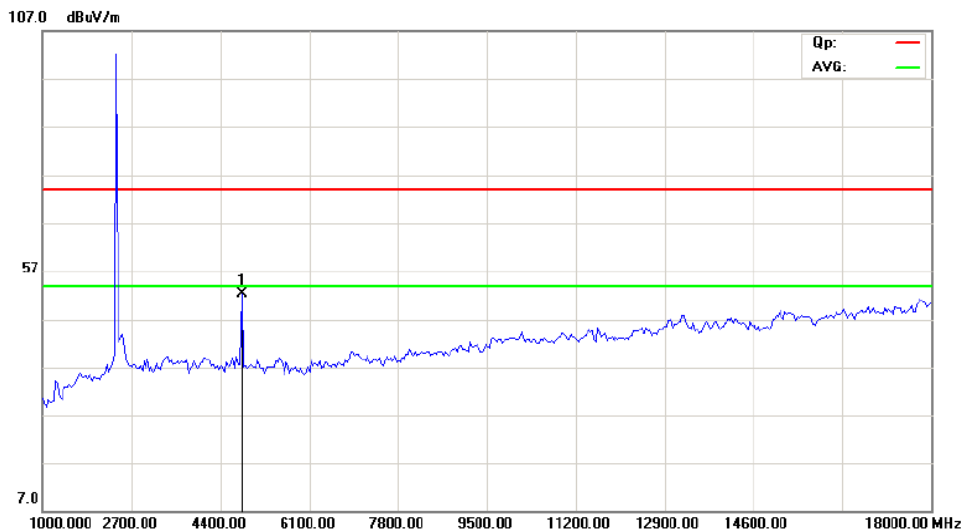
Please refer to the following test plots for details:

CH01 for 11g at 6Mbps: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4824.000	51.00	0.28	51.28	74.00	-22.72	peak

CH01 for 11g at 6Mbps: Vertical



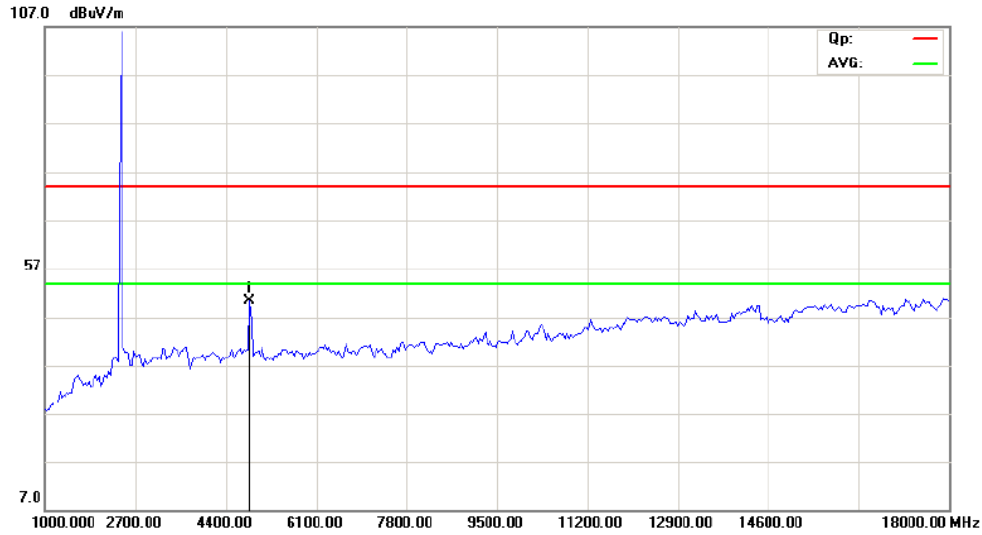
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4824.000	52.04	0.28	52.32	74.00	-21.68	peak

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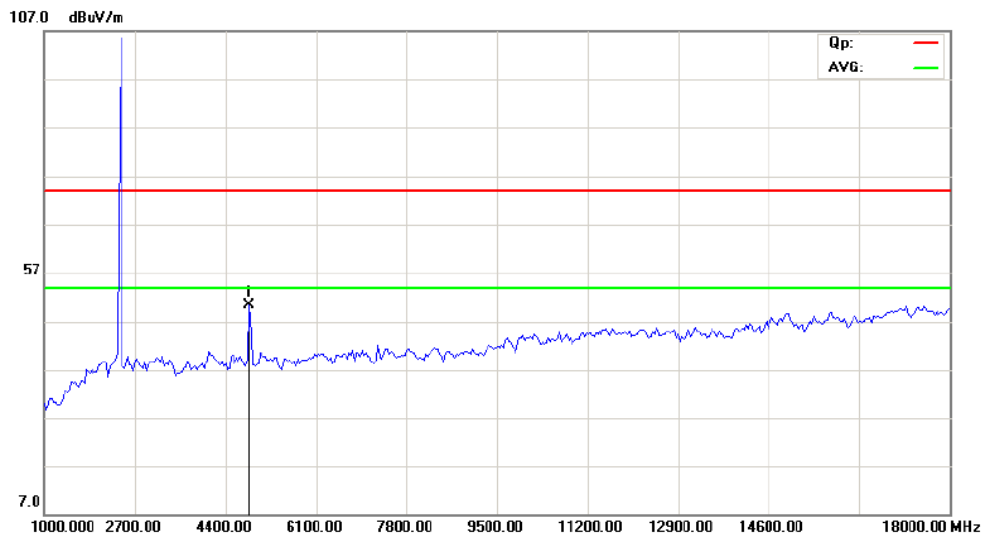


CH06 for 11g at 6Mbps: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4874.000	49.94	0.38	50.32	74.00	-23.68	peak

CH06 for 11g at 6Mbps: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4874.000	50.09	0.38	50.47	74.00	-23.53	peak

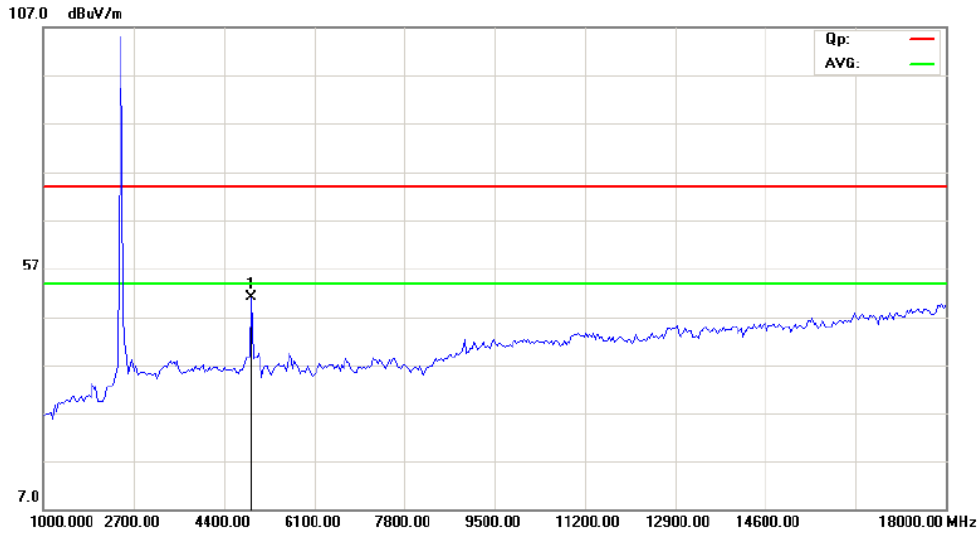
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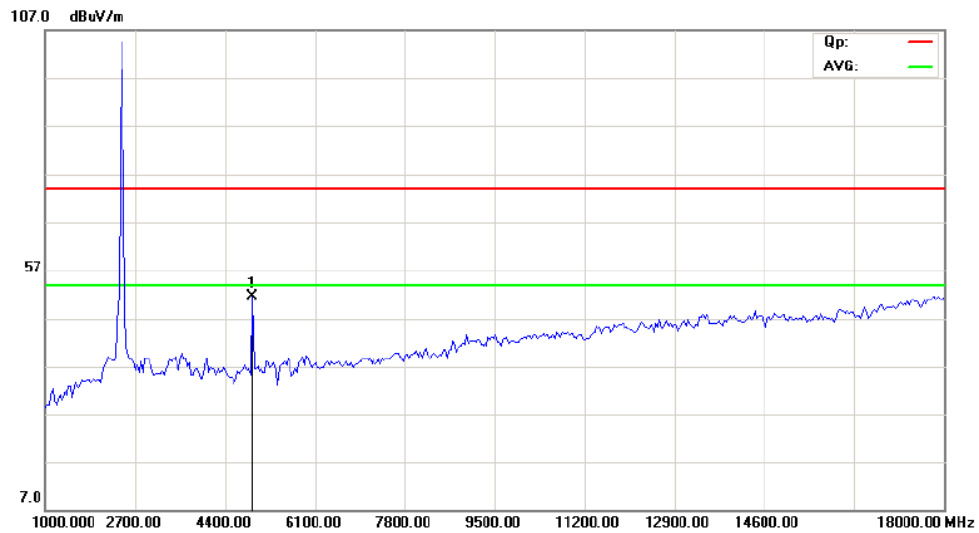


CH11 for 11g at 6Mbps: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4924.000	50.67	0.47	51.14	74.00	-22.86	peak

CH11 for 11g at 6Mbps: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4924.000	51.11	0.47	51.58	74.00	-22.42	peak

Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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Operation Mode: Transmitting under CH01 for 11b at 1Mbps

Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
4824.00	52.04	30.8	4.64	35.16	52.32 (PK)	H	74(Peak)/ 54(AV)
4824.00	51.81	30.8	4.64	35.16	52.09 (PK)	V	74(Peak)/ 54(AV)
7236.00	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
9648.00	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
12060	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
14472	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
16884	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
19296	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
21708	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
24120	--	---	--	--	--	H/V	74(Peak)/ 54(AV)

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

Operation Mode: Transmitting under CH06 for 11b at 1Mbps

Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
4874.00	48.43	30.9	4.70	35.22	48.12 (PK)	V	74(Peak)/ 54(AV)
4874.00	47.74	30.9	4.70	35.22	48.81 (PK)	H	74(Peak)/ 54(AV)
7311.00	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
9748.00	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
12185	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
14622	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
17059	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
19496	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
21933	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
24370	--	---	--	--	--	H/V	74(Peak)/ 54(AV)

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

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Operation Mode: Transmitting under CH11 for 11b at 1Mbps

Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
4924	49.82	31.20	4.71	35.44	50.29 (PK)	H	74(Peak)/ 54(AV)
4924	50.16	31.20	4.71	35.44	50.63 (PK)	V	74(Peak)/ 54(AV)
7368	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
9848	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
12310	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
14772	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
17234	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
19696	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
22158	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
24620	--	---	--	--	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp , Margin = Level - Limit

2. Remark “---” means that the emissions level is too low to be measured

3. For 802.11b mode 1Mbps

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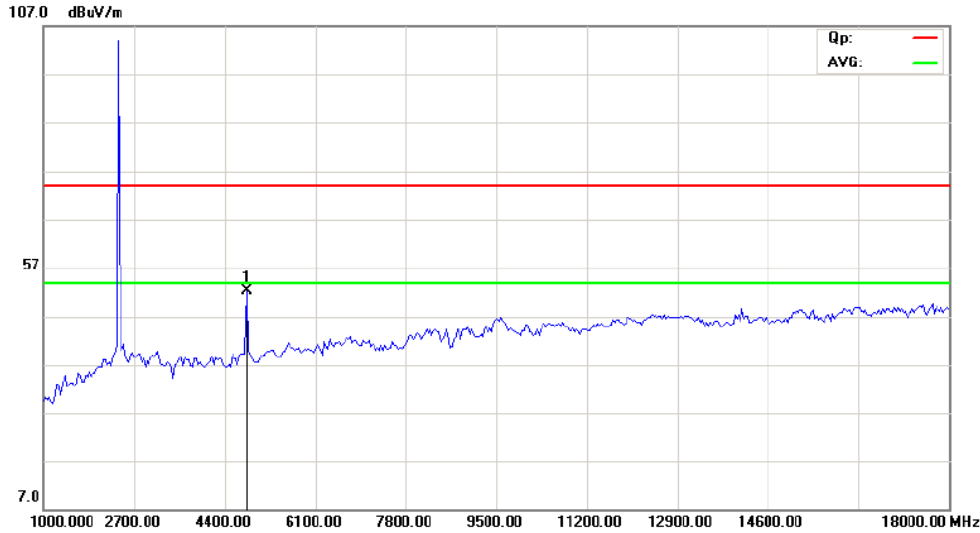
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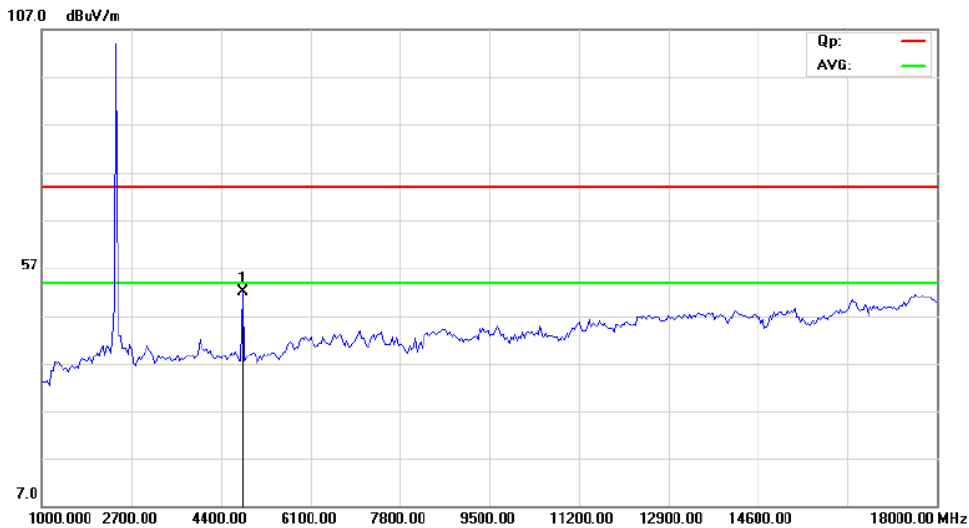
Please refer to the following test plots for details:

CH01 for 11b at 1Mbps: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4824.000	52.04	0.28	52.32	74.00	-21.68	peak

CH01 for 11b at 1Mbps: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4824.000	51.81	0.28	52.09	74.00	-21.91	peak

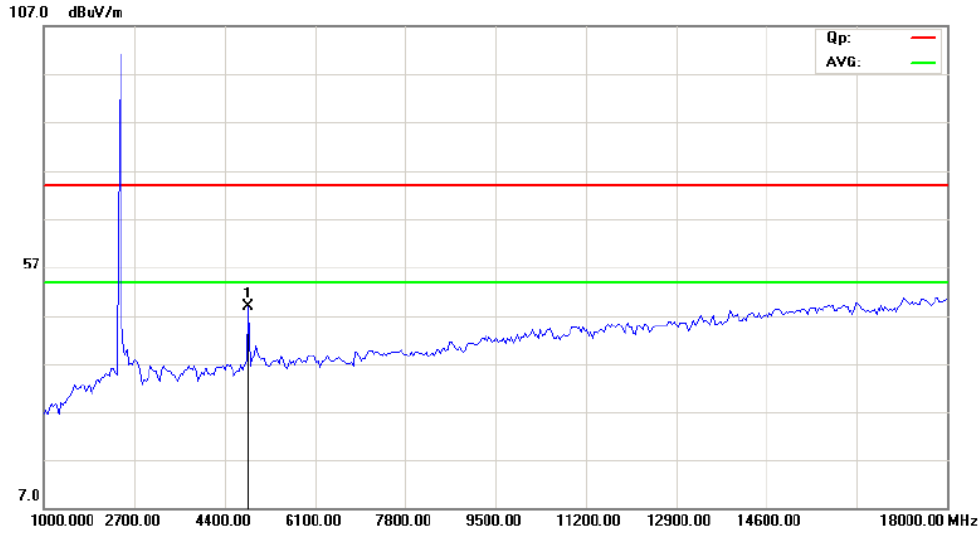
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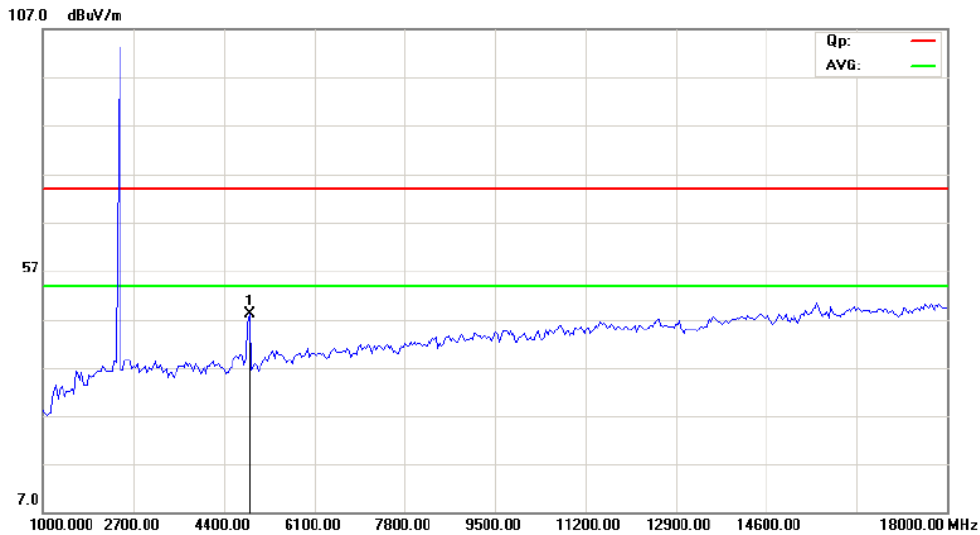


CH06 for 11b at 1Mbps: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4874.000	48.43	0.38	48.81	74.00	-25.19	peak

CH06 for 11b at 1Mbps: Horizontal

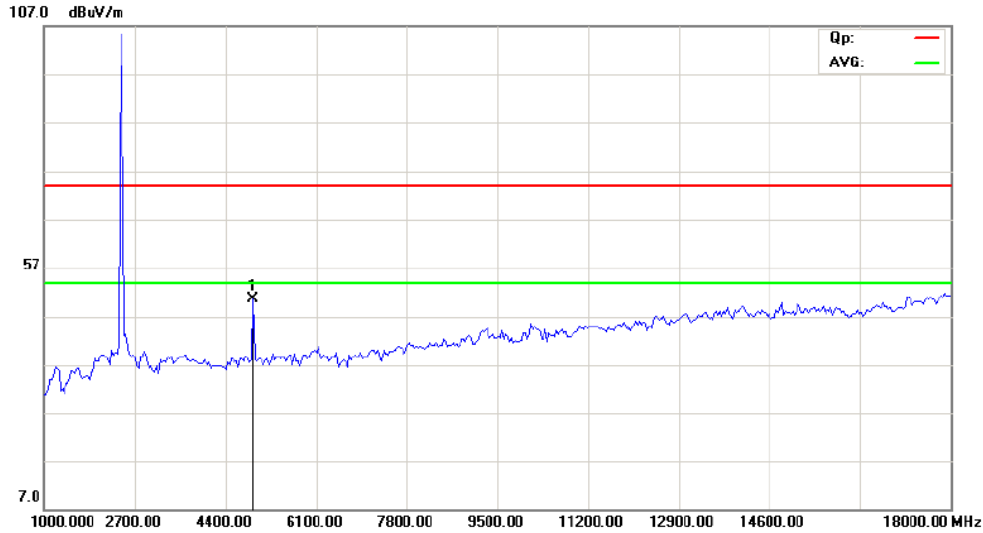


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4874.000	47.74	0.38	48.12	74.00	-25.88	peak

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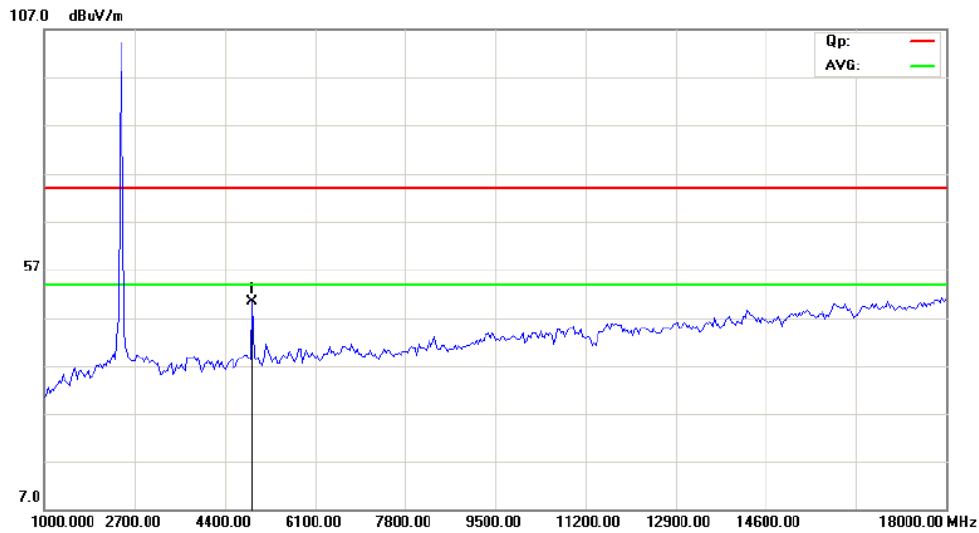


CH11 for 11b at 1Mbps: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4924.000	50.16	0.47	50.63	74.00	-23.37	peak

CH11 for 11b at 1Mbps: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4924.000	49.82	0.47	50.29	74.00	-23.71	peak

Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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Operation Mode: Transmitting under CH01 for 11n HT20 at 6.5Mbps

Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
4824.00	51.07	30.8	4.64	35.16	51.35 (PK)	H	74(Peak)/ 54(AV)
4824.00	51.31	30.8	4.64	35.16	51.59 (PK)	V	74(Peak)/ 54(AV)
7236.00	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
9648.00	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
12060	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
14472	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
16884	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
19296	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
21708	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
24120	--	---	--	--	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp , Margin = Level - Limit

2. Remark “---” means that the emissions level is too low to be measured

3. For 802.11n (HT20) mode 6.5Mbps

Operation Mode: Transmitting under CH06 for 11n HT20 at 6.5Mbps

Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
4874.00	48.81	30.9	4.70	35.22	49.19 (PK)	V	74(Peak)/ 54(AV)
4874.00	48.66	30.9	4.70	35.22	49.04 (PK)	H	74(Peak)/ 54(AV)
7311.00	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
9748.00	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
12185	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
14622	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
17059	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
19496	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
21933	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
24370	--	---	--	--	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp , Margin = Level - Limit

2. Remark “---” means that the emissions level is too low to be measured

3. For 802.11n (HT20) mode 6.5Mbps

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Operation Mode: Transmitting under CH11 for 11n HT20 at 6.5Mbps

Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
4924	49.72	31.20	4.71	35.44	50.19 (PK)	H	74(Peak)/ 54(AV)
4924	50.17	31.20	4.71	35.44	50.64 (PK)	V	74(Peak)/ 54(AV)
7368	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
9848	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
12310	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
14772	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
17234	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
19696	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
22158	--	---	--	--	--	H/V	74(Peak)/ 54(AV)
24620	--	---	--	--	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp , Margin = Level - Limit

2. Remark “---” means that the emissions level is too low to be measured

3. For 802.11n (HT20) mode 6.5Mbps

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

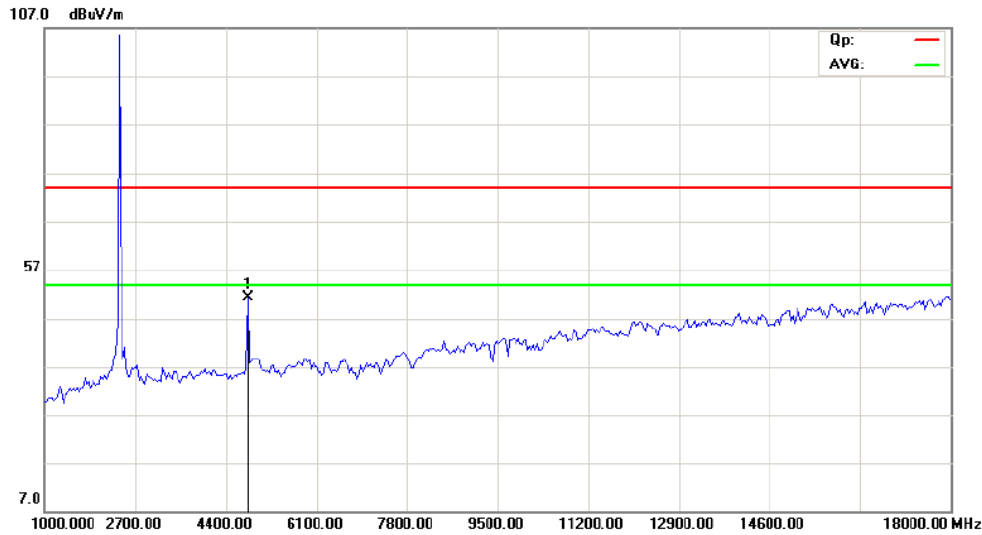
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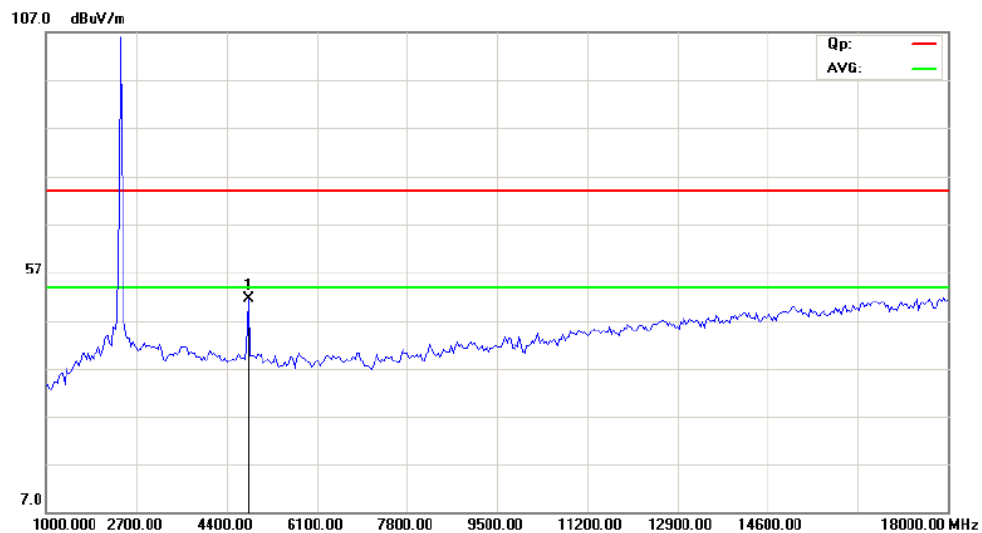
Please refer to the following test plots for details:

CH01 for 11n HT20 at 6.5Mbps: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4824.000	51.07	0.28	51.35	74.00	-22.65	peak

CH01 for 11n HT20 at 6.5Mbps: Vertical

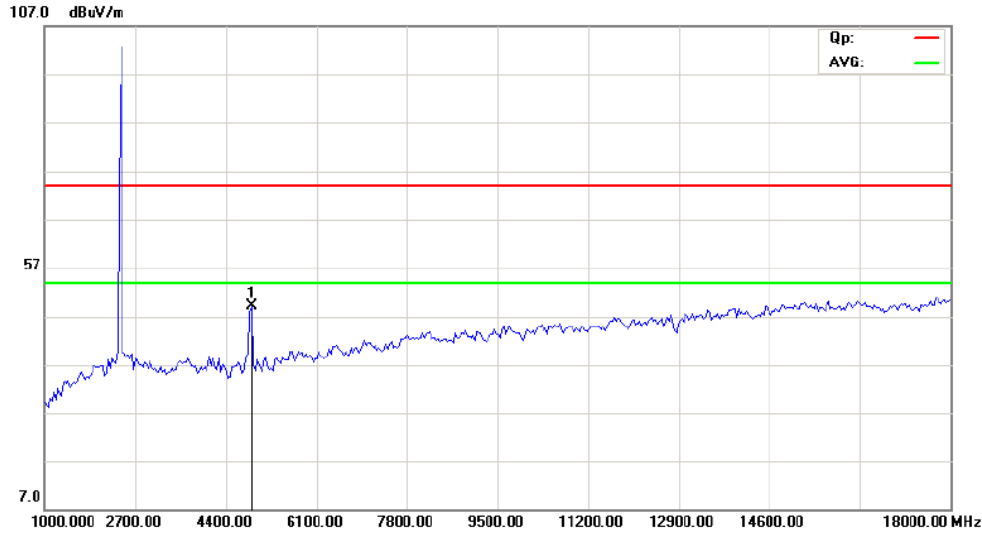


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4824.000	51.31	0.28	51.59	74.00	-22.41	peak

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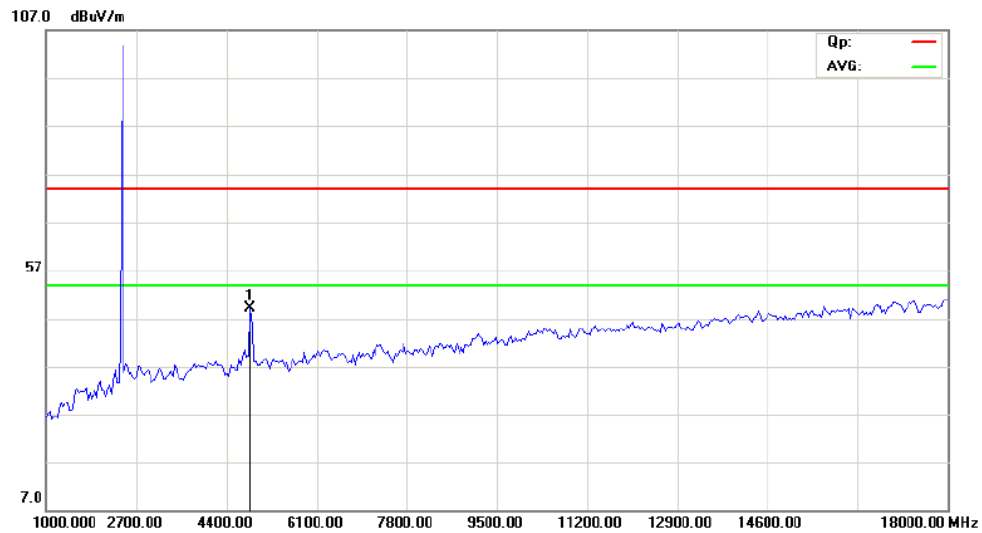


CH06 for 11n HT20 at 6.5Mbps: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4874.000	48.81	0.38	49.19	74.00	-24.81	peak

CH06 for 11n HT20 at 6.5Mbps: Horizontal

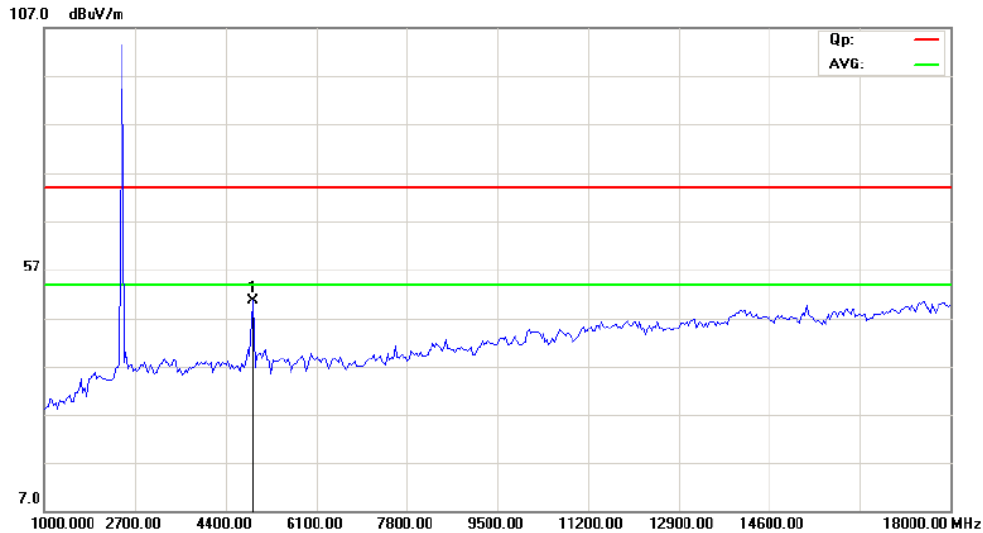


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4874.000	48.66	0.38	49.04	74.00	-24.96	peak

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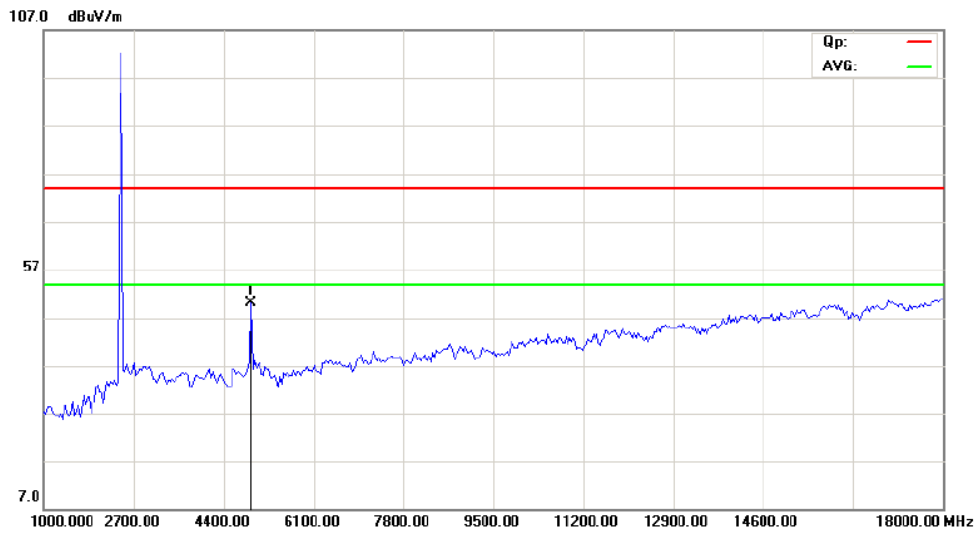


CH11 for 11n HT20 at 6.5Mbps: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4924.000	50.17	0.47	50.64	74.00	-23.36	peak

CH11 for 11n HT20 at 6.5Mbps: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	4924.000	49.72	0.47	50.19	74.00	-23.81	peak

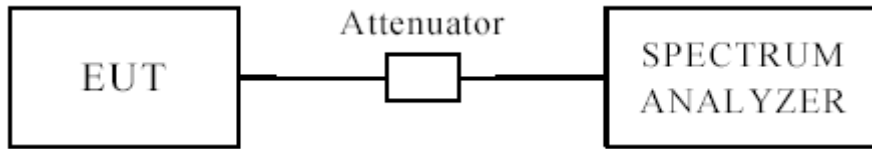
Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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7.0 6dB and 99% 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		Tablet PC		Model	F102
Mode		802.11b		Input Voltage	DC3.7V
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


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

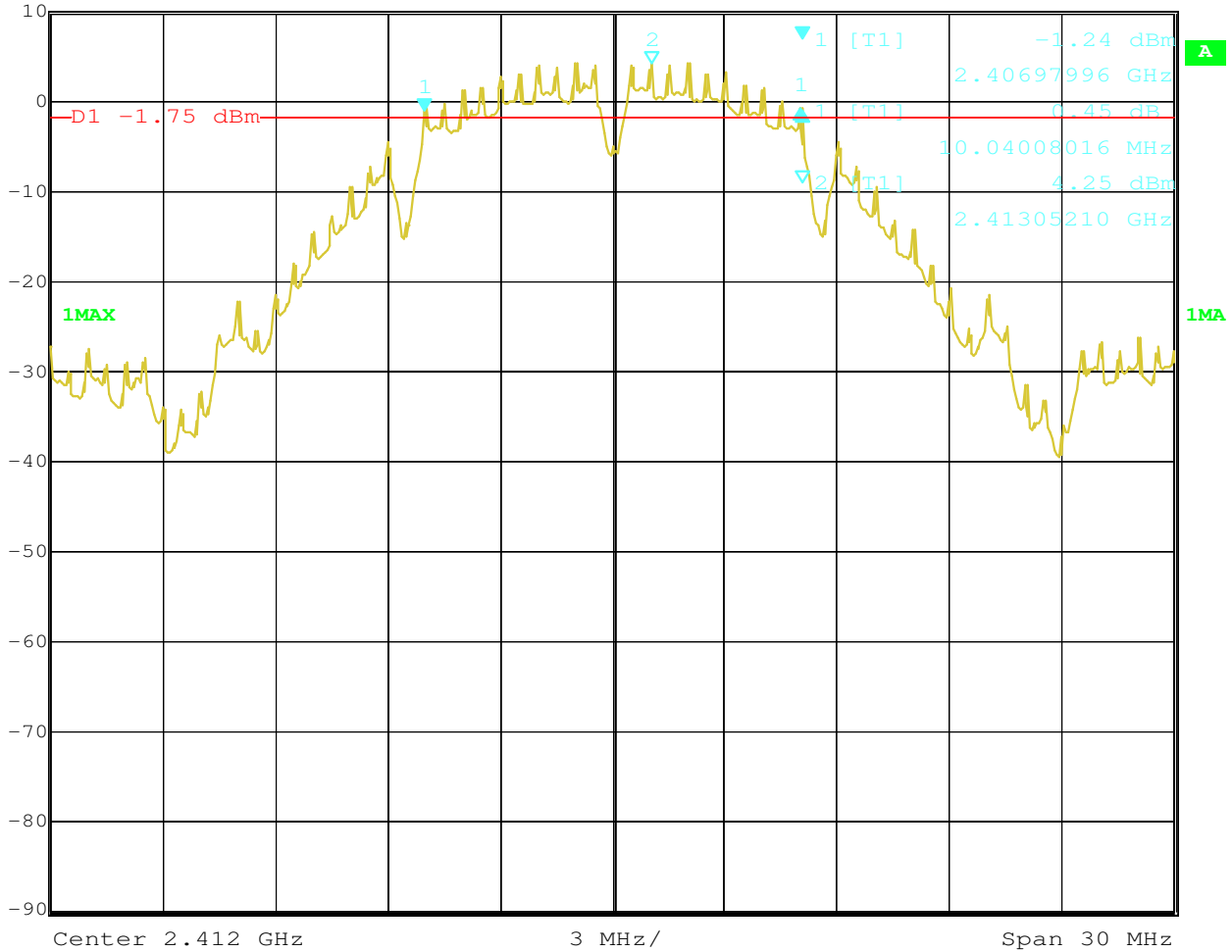
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1. 802.11b at 1Mbps of CH01


 Delta 1 [T1] RBW 100 kHz RF Att 20 dB
 Ref Lvl 0.45 dB VBW 300 kHz
 10 dBm 10.04008016 MHz SWT 7.5 ms Unit dBm



Date: 27.JUN.2016 11:29:32

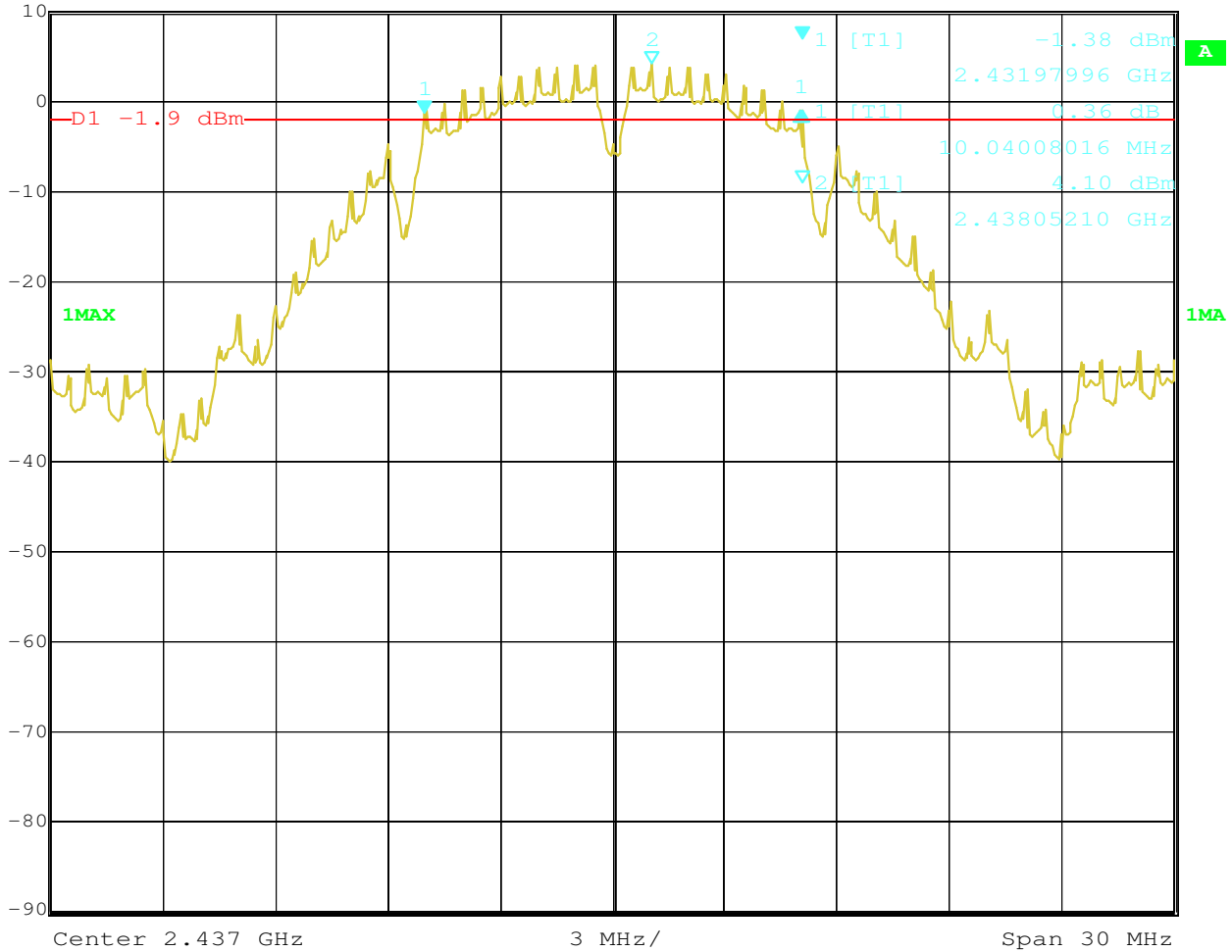
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2. 802.11b at 1Mbps of CH06



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	0.36 dB	VBW	300 kHz	Unit	dBm
	10.04008016 MHz	SWT	7.5 ms		



Date: 27.JUN.2016 11:33:48

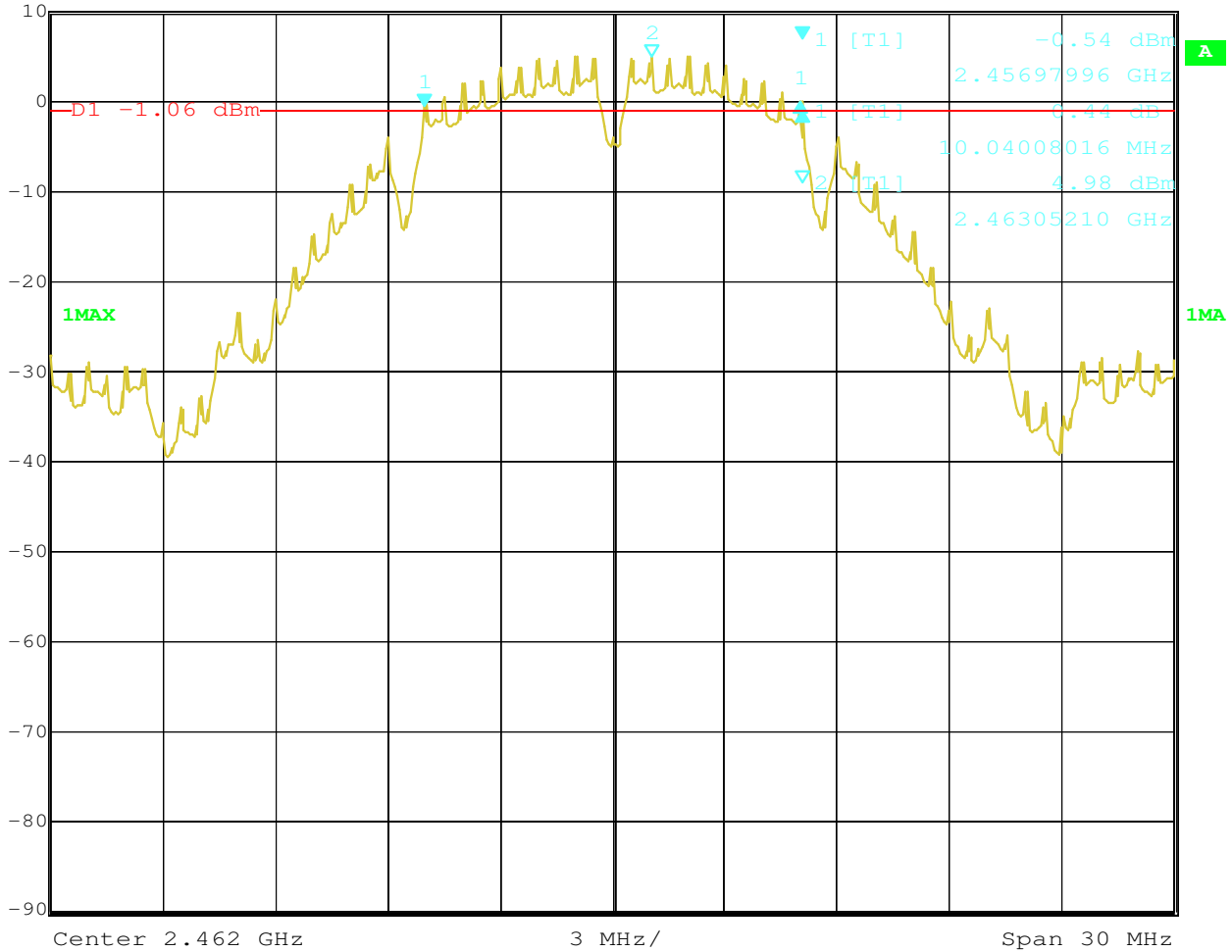
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3. 802.11b at 1Mbps of CH11



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	0.44 dB	VBW	300 kHz	Unit	dBm
	10.04008016 MHz	SWT	7.5 ms		



Date: 27.JUN.2016 11:41:41

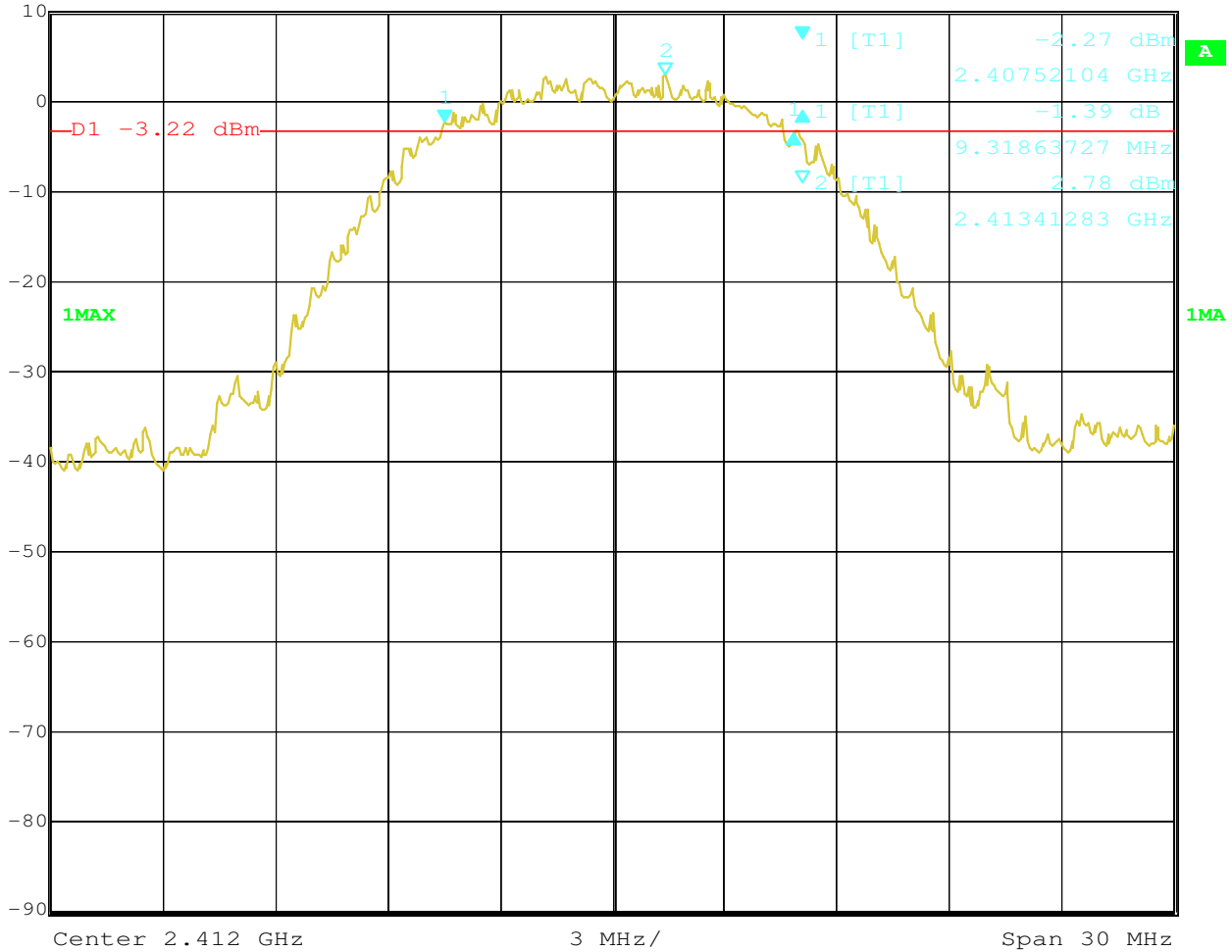
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4. 802.11b at 11Mbps of CH01



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	-1.39 dB	VBW	300 kHz	Unit	dBm
	9.31863727 MHz	SWT	7.5 ms		



Date: 27.JUN.2016 11:55:36

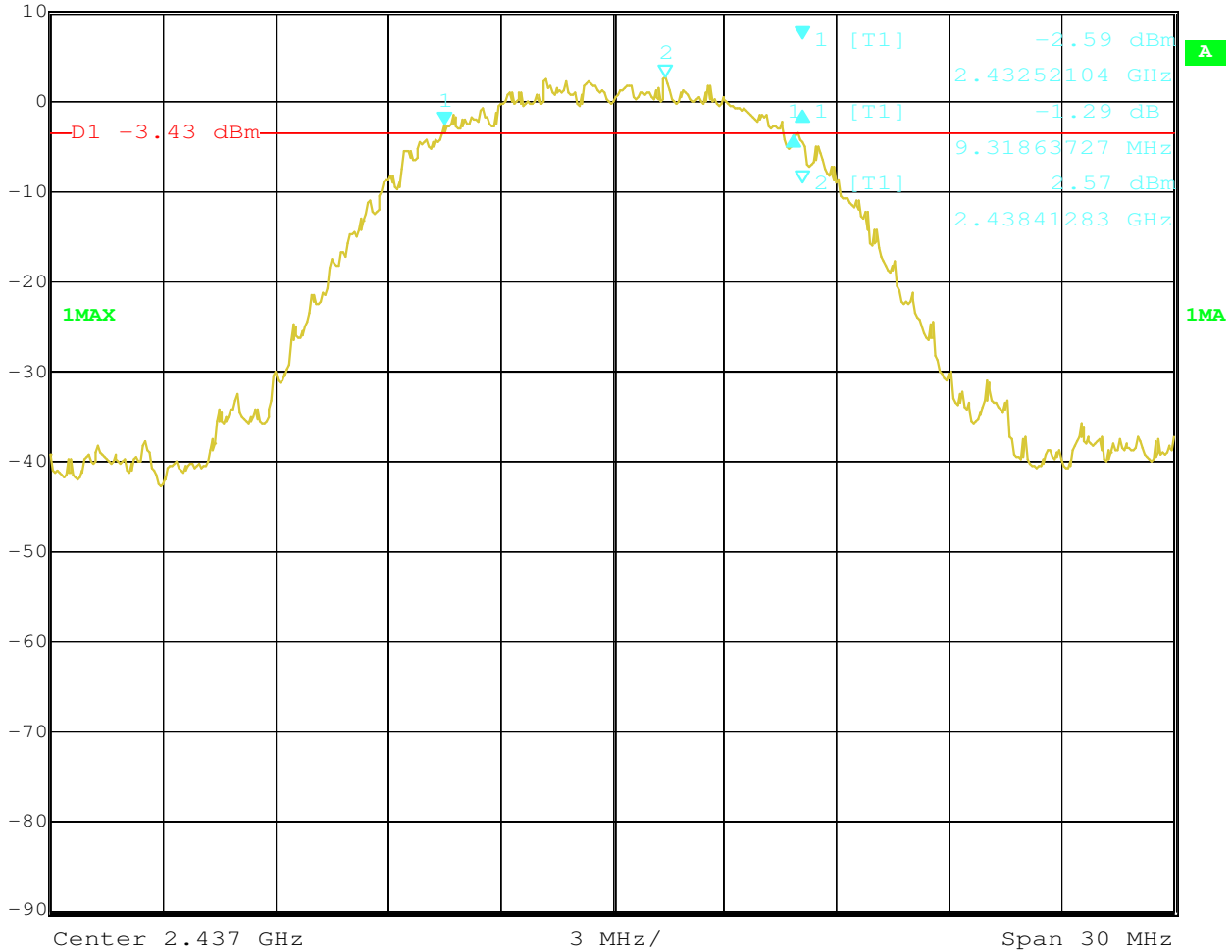
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5. 802.11b at 11Mbps of CH06



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	-1.29 dB	VBW	300 kHz	Unit	dBm
	9.31863727 MHz	SWT	7.5 ms		



Date: 27.JUN.2016 11:52:37

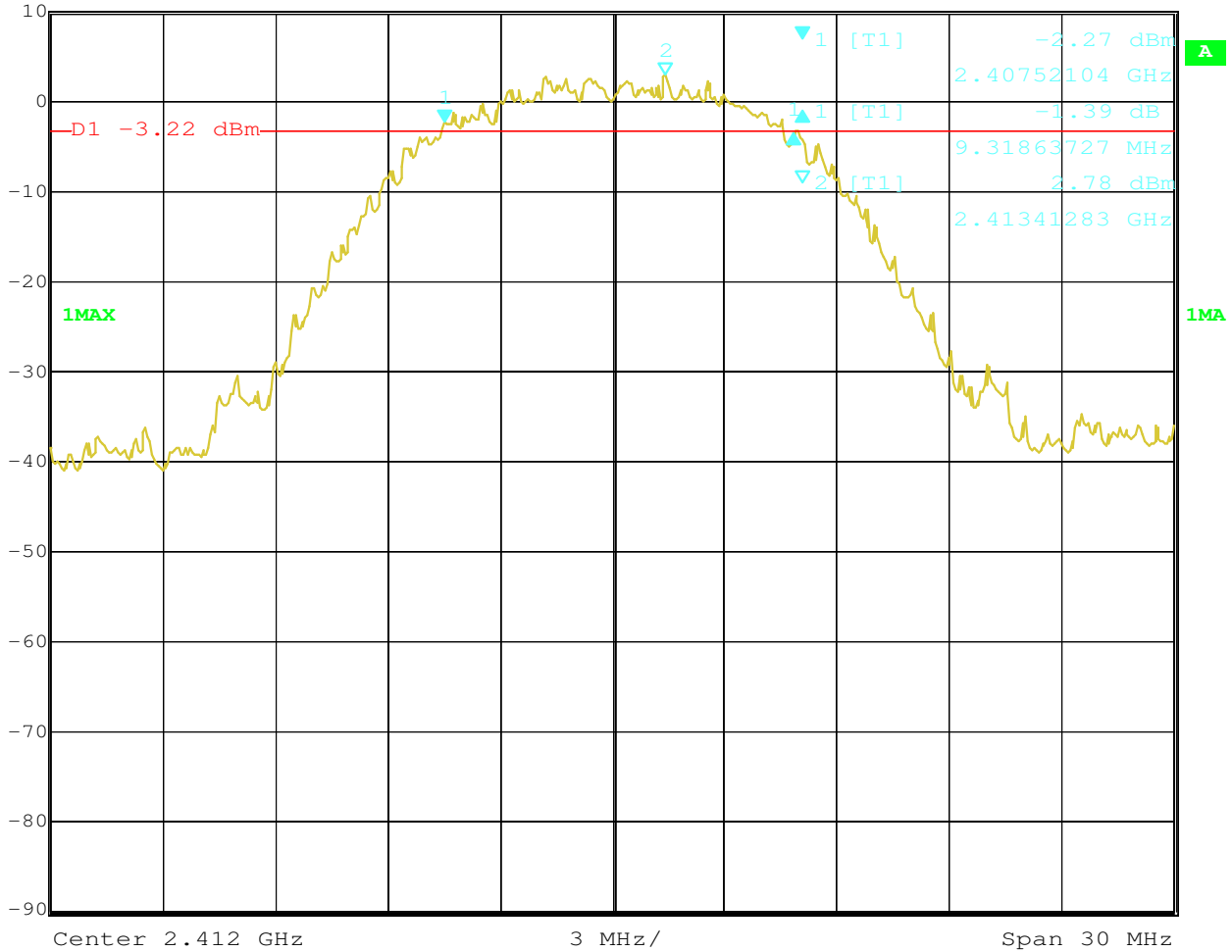
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6. 802.11b at 11Mbps of CH11



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	-1.39 dB	VBW	300 kHz	Unit	dBm
	9.31863727 MHz	SWT	7.5 ms		



Date: 27.JUN.2016 11:55:36

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6dB Occupied Bandwidth

EUT		Tablet PC		Model		F102	
Mode		802.11g		Input Voltage		DC3.7V	
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	16.35	0.5	Pass		
6	2437	6	16.35	0.5	Pass		
11	2462	6	16.35	0.5	Pass		

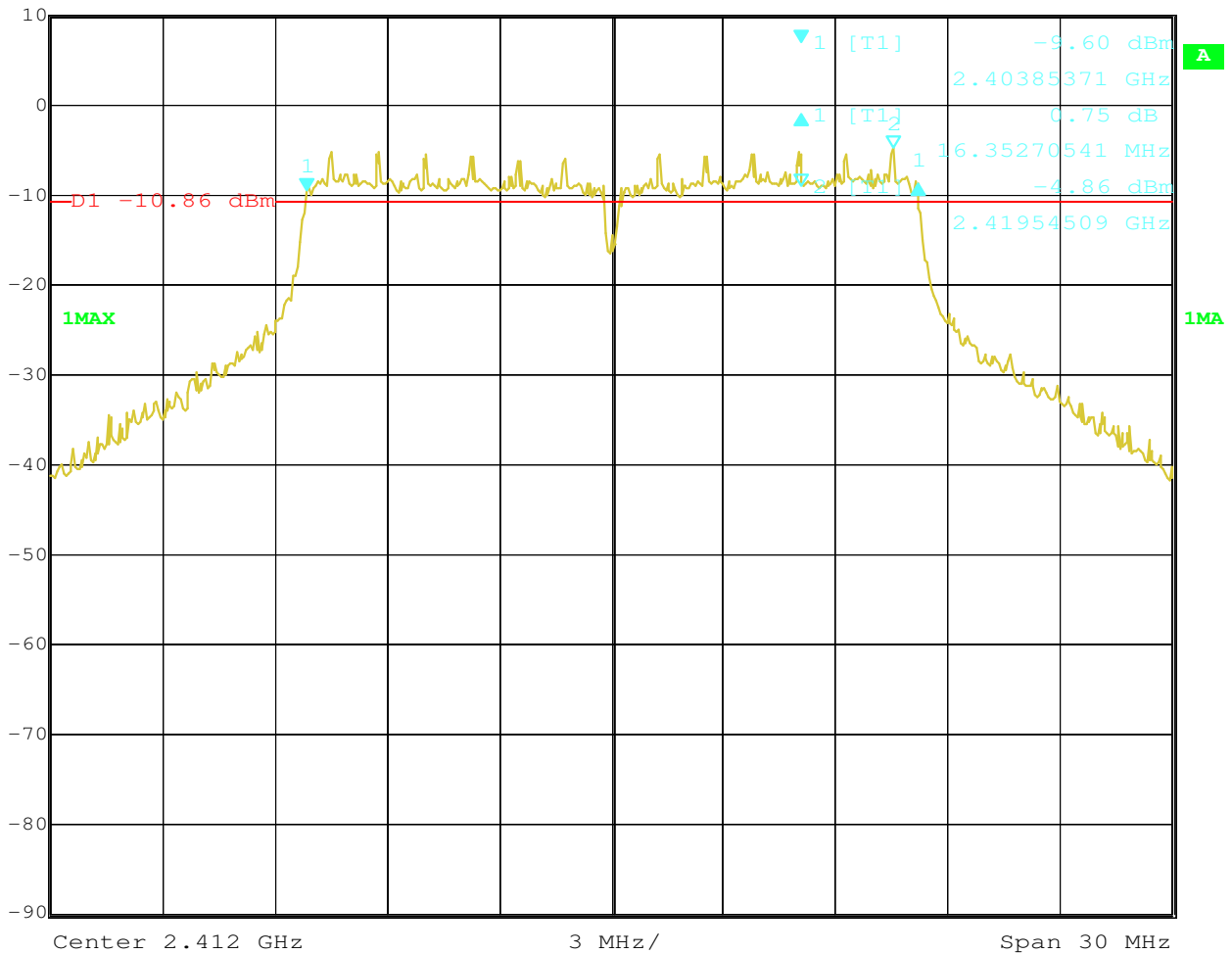
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Test Plots:

1. 802.11g at 6Mbps of CH01

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	0.75 dB	VBW	300 kHz	
	10 dBm	16.35270541 MHz	SWT	7.5 ms	Unit



Date: 27.JUN.2016 11:01:00

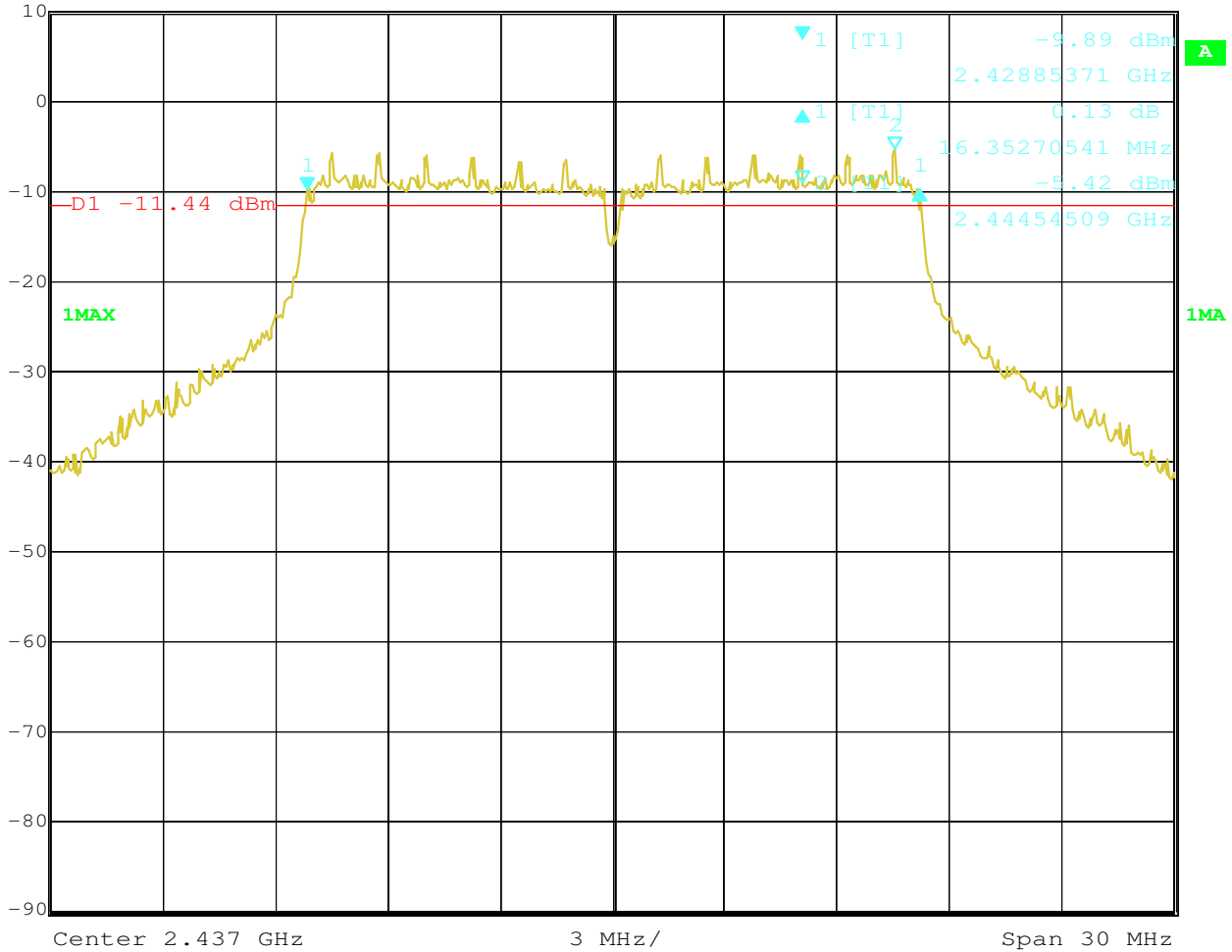
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2. 802.11g at 6Mbps of CH06



	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.13 dB	VBW	300 kHz		
10 dBm	16.35270541 MHz	SWT	7.5 ms	Unit	dBm



Date: 27.JUN.2016 11:03:15

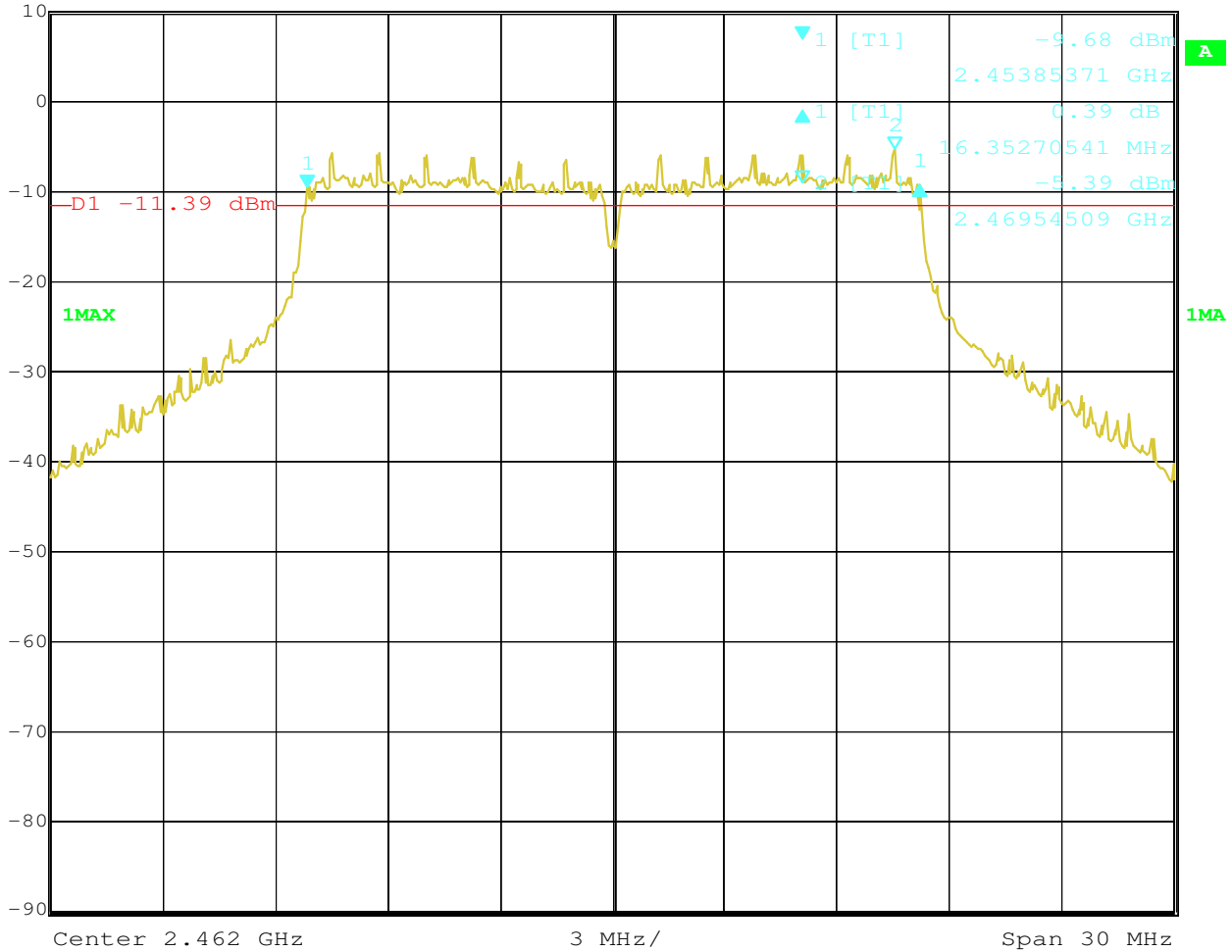
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3. 802.11g at 6Mbps of CH11



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	0.39 dB	VBW	300 kHz	Unit	dBm
	16.35270541 MHz	SWT	7.5 ms		



Date: 27.JUN.2016 11:06:03

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6dB Occupied Bandwidth

EUT		Tablet PC		Model	F102
Mode		802.11n HT20		Input Voltage	DC3.7V
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	6.5M	17.56	0.5	Pass
6	2437	6.5M	17.56	0.5	Pass
11	2462	6.5M	17.56	0.5	Pass

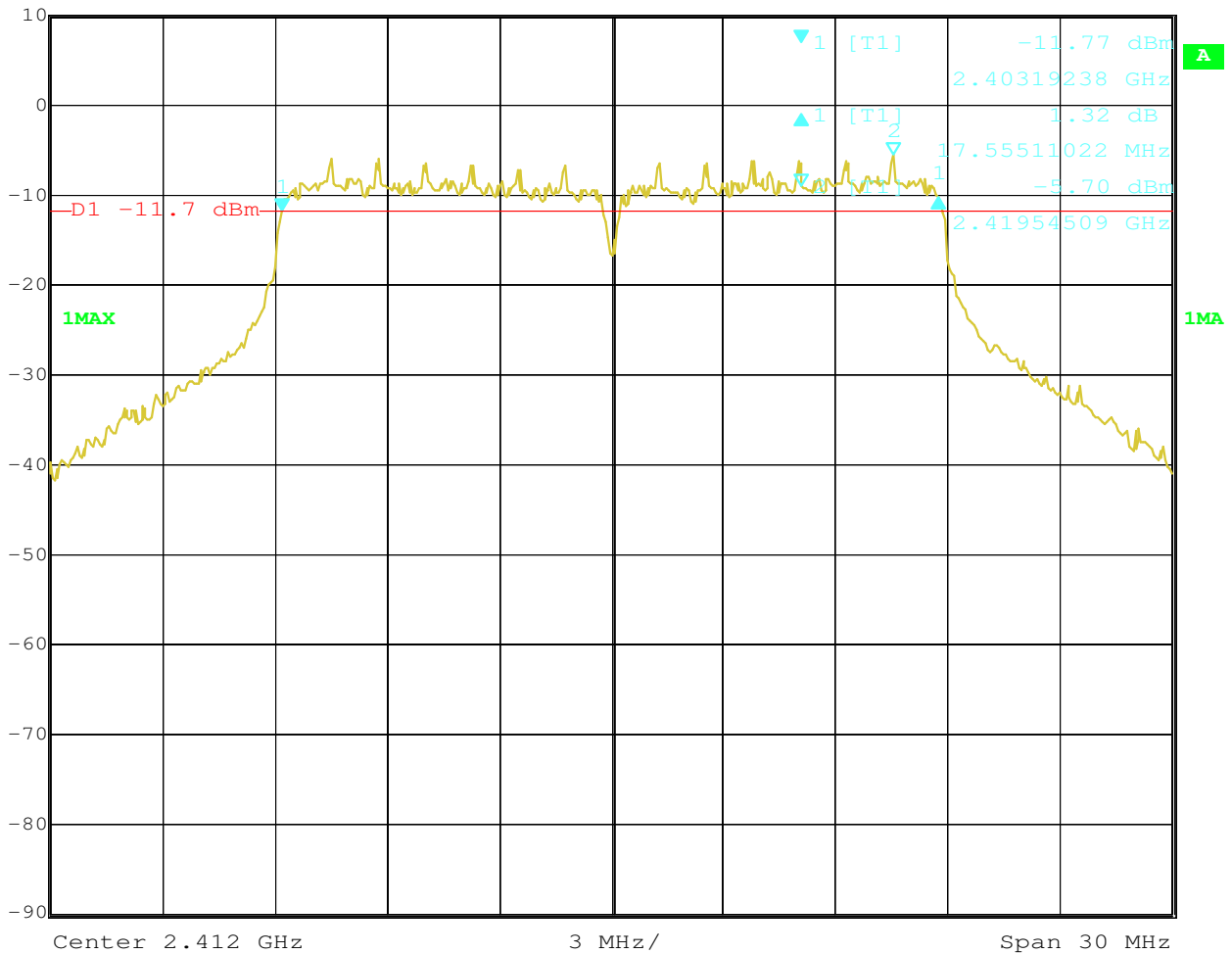
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Test Plots:

1. 802.11n at HT20 of CH01

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	1.32 dB	VBW	300 kHz	
	10 dBm	17.55511022 MHz	SWT	7.5 ms	Unit dBm



Date: 27.JUN.2016 11:26:47

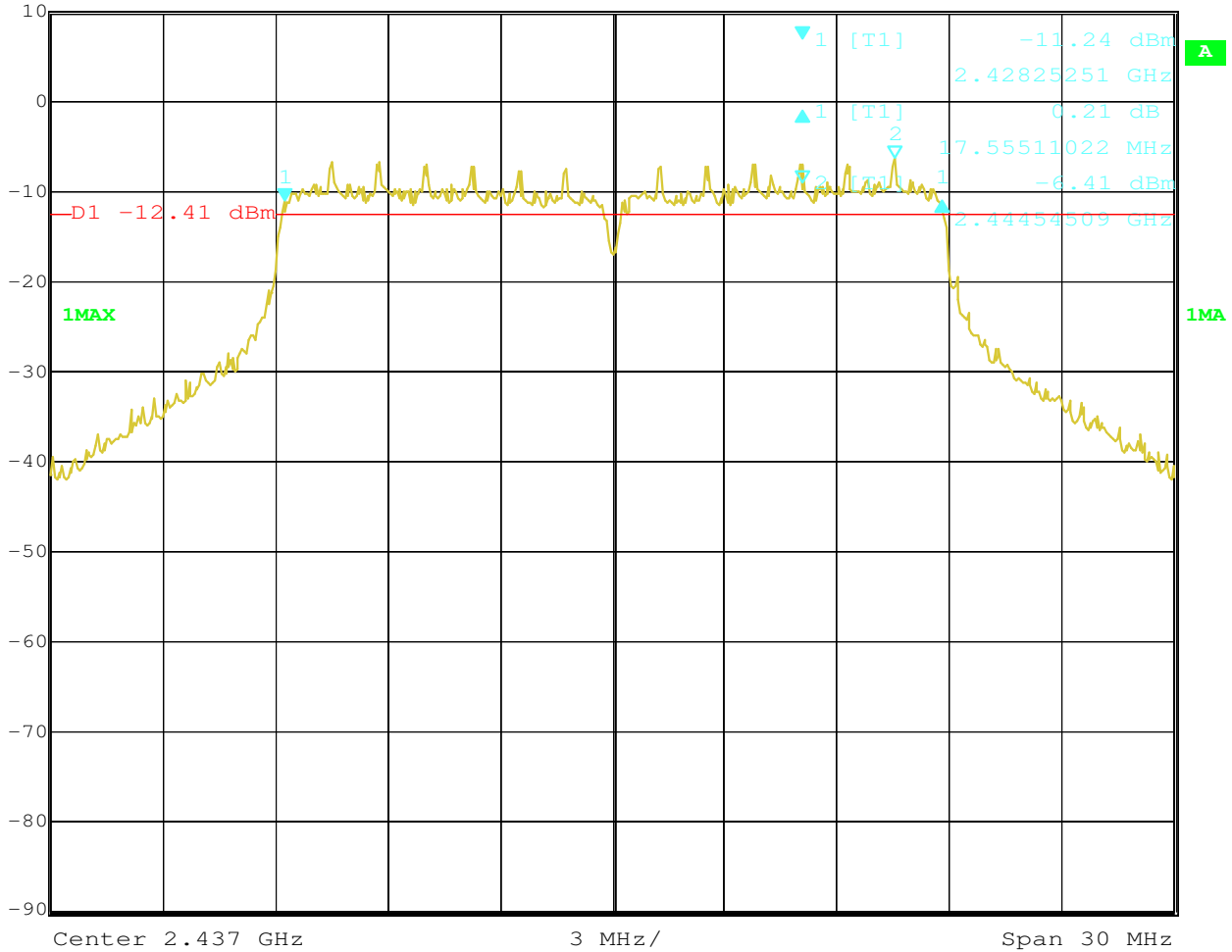
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2. 802.11n at HT20 of CH06



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	0.21 dB	VBW	300 kHz	Unit	dBm
	17.55511022 MHz	SWT	7.5 ms		



Date: 27.JUN.2016 11:09:38

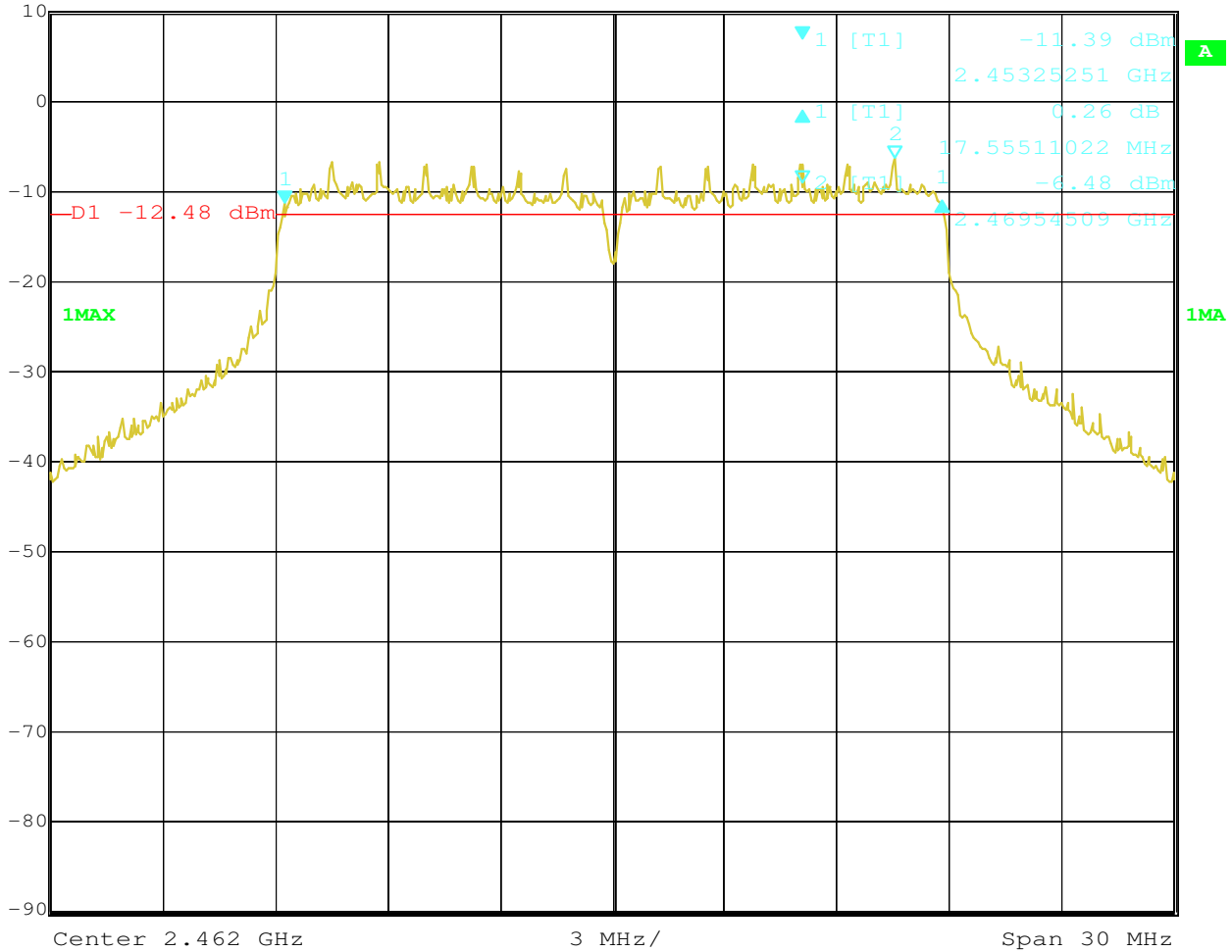
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3. 802.11n at HT20 of CH11



	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.26 dB	VBW	300 kHz		
10 dBm	17.55511022 MHz	SWT	7.5 ms	Unit	dBm



Date: 27.JUN.2016 11:07:46

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99% Occupied Bandwidth

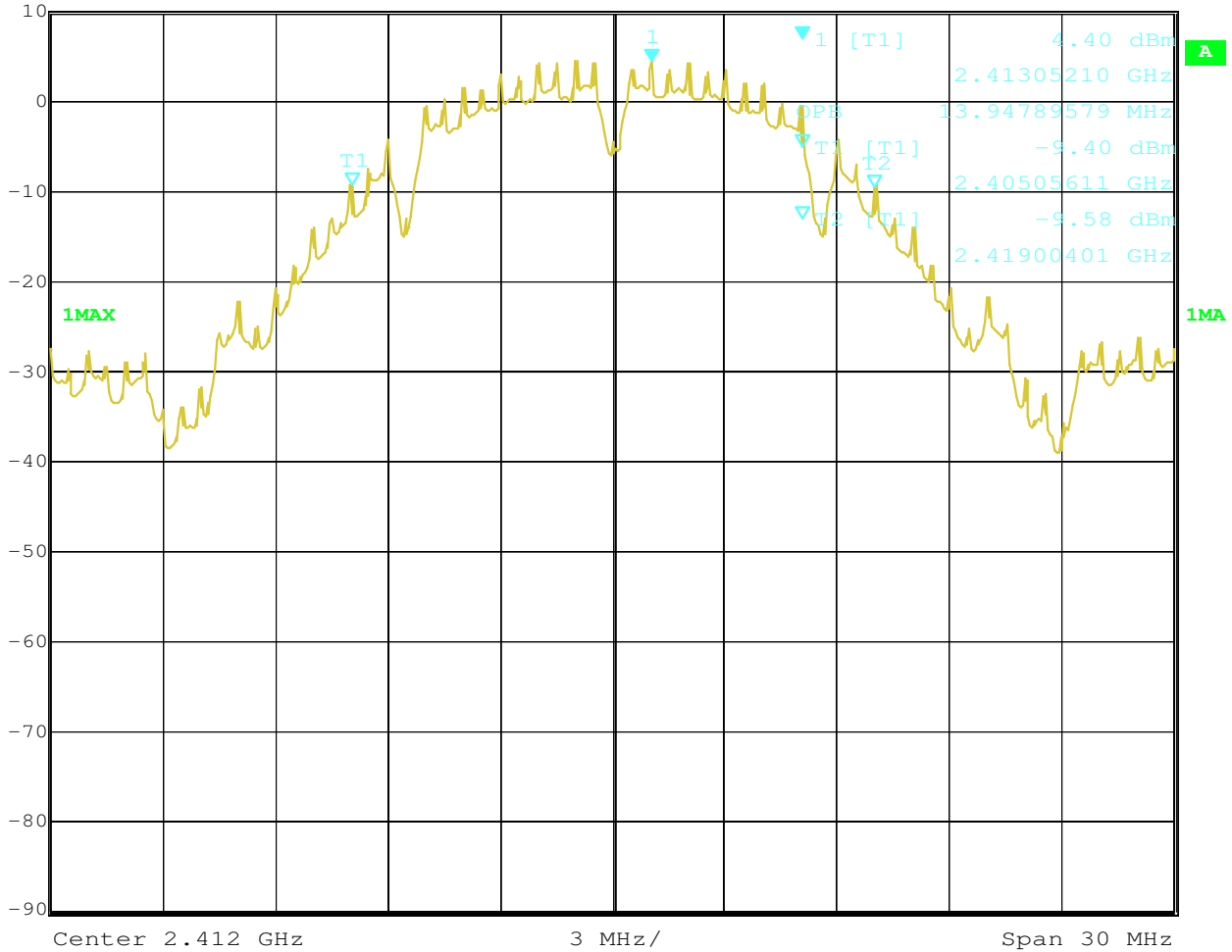
EUT		Tablet PC		Model	F102
Mode		802.11b		Input Voltage	DC3.7V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	99% Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	1	13.95	--	Pass
6	2437	1	13.71	--	Pass
11	2462	1	13.59	--	Pass
1	2412	11	12.69	--	Pass
6	2437	11	12.75	--	Pass
11	2462	11	12.81	--	Pass

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1. 802.11b at 1Mbps of CH01

	Ref Lvl	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
	10 dBm	4.40 dBm	VBW	300 kHz	Unit	dBm
		2.41305210 GHz	SWT	7.5 ms		



Date: 27.JUN.2016 11:57:49

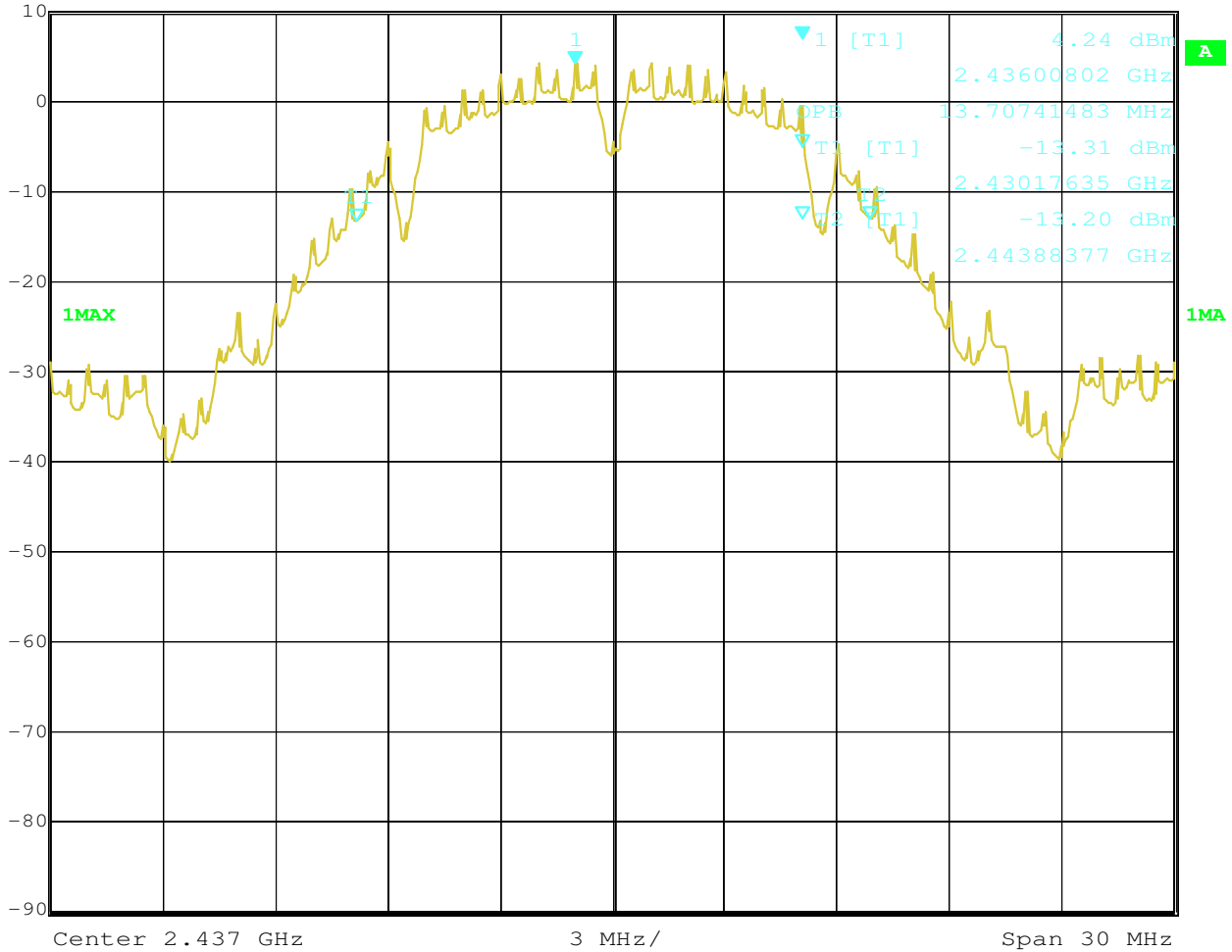
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2. 802.11b at 1Mbps of CH06



Ref Lvl	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	4.24 dBm	VBW	300 kHz		
	2.43600802 GHz	SWT	7.5 ms	Unit	dBm



Date: 27.JUN.2016 11:59:49

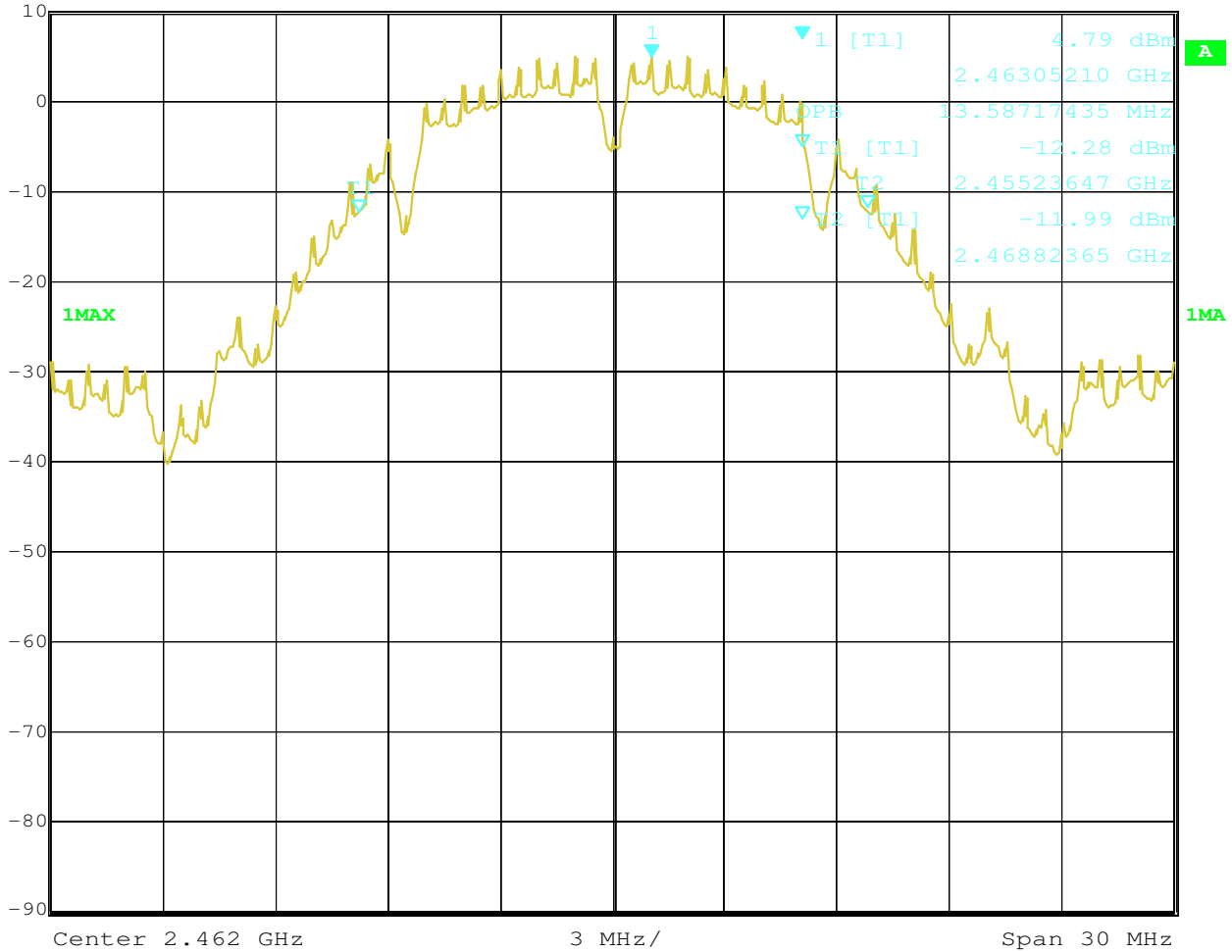
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3. 802.11b at 1Mbps of CH11



Ref Lvl	10 dBm	Marker 1 [T1]	4.79 dBm	RBW	100 kHz	RF Att	20 dB
			2.46305210 GHz	VBW	300 kHz	Unit	dBm
				SWT	7.5 ms		



Date: 27.JUN.2016 12:08:06

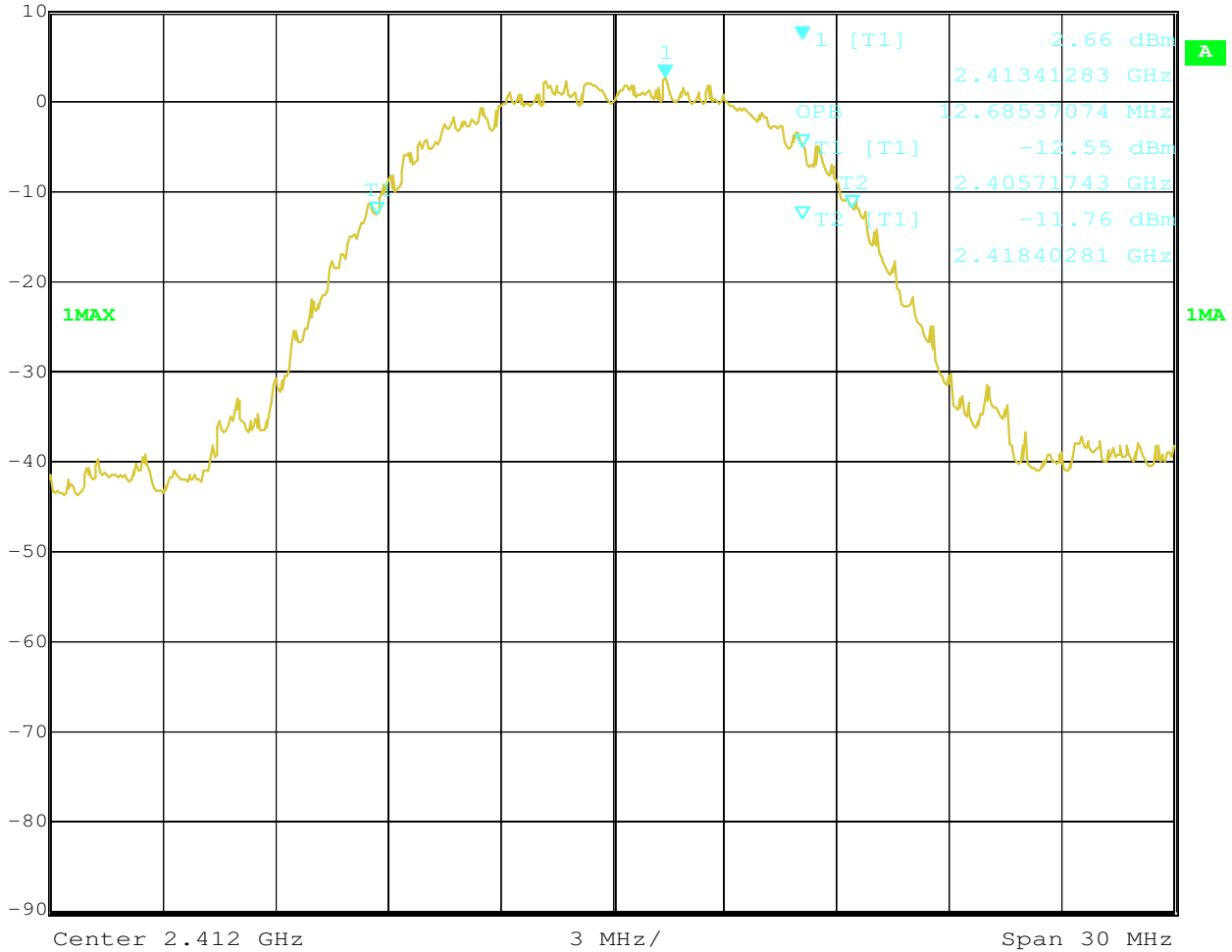
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4. 802.11b at 11Mbps of CH01



Ref Lvl	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	2.66 dBm	VBW	300 kHz		
	2.41341283 GHz	SWT	7.5 ms	Unit	dBm



Date: 28.JUN.2016 09:36:17

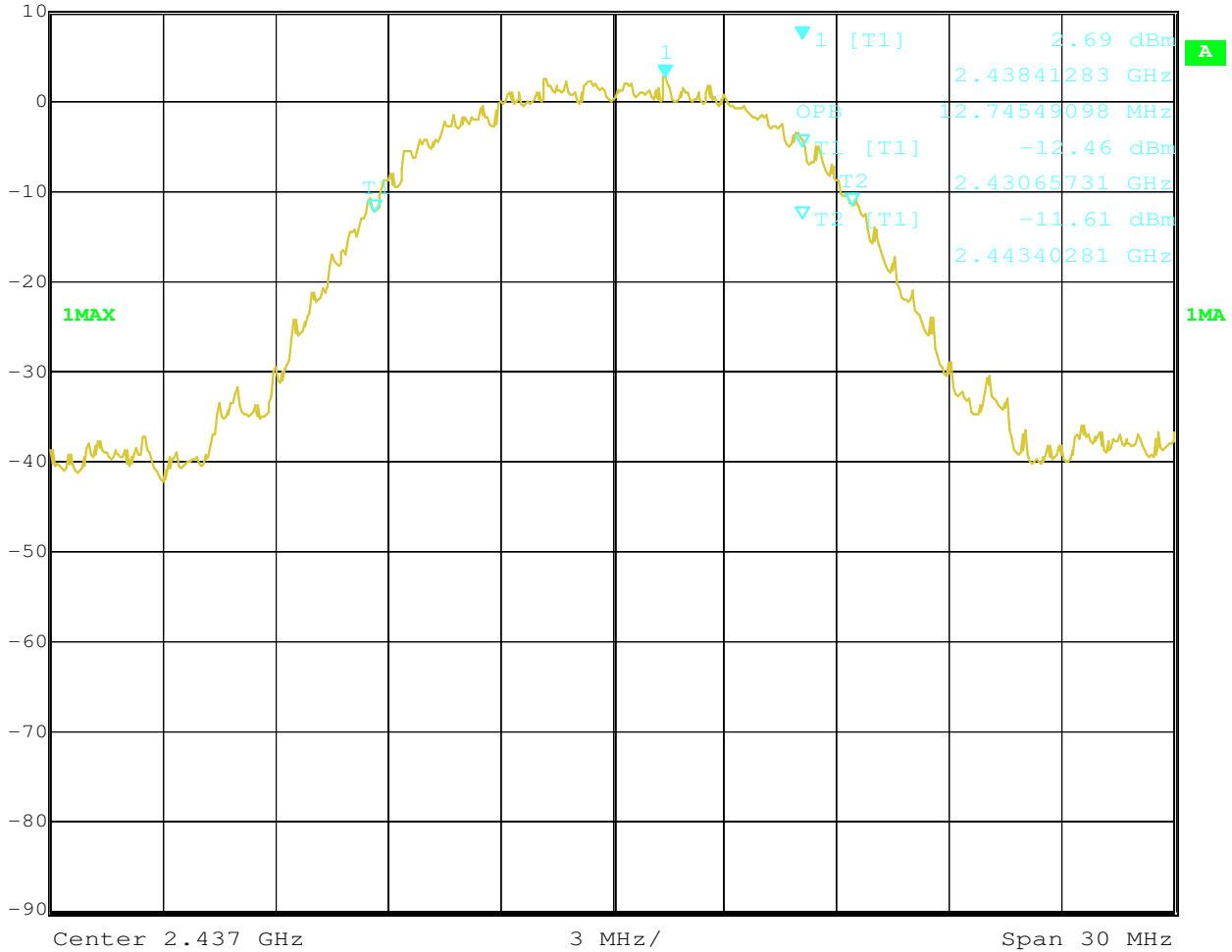
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5. 802.11b at 11Mbps of CH06



Ref Lvl	10 dBm	Marker 1 [T1]	2.69 dBm	RBW	100 kHz	RF Att	20 dB
			2.43841283 GHz	VBW	300 kHz		
				SWT	7.5 ms	Unit	dBm



Date: 27.JUN.2016 12:02:21

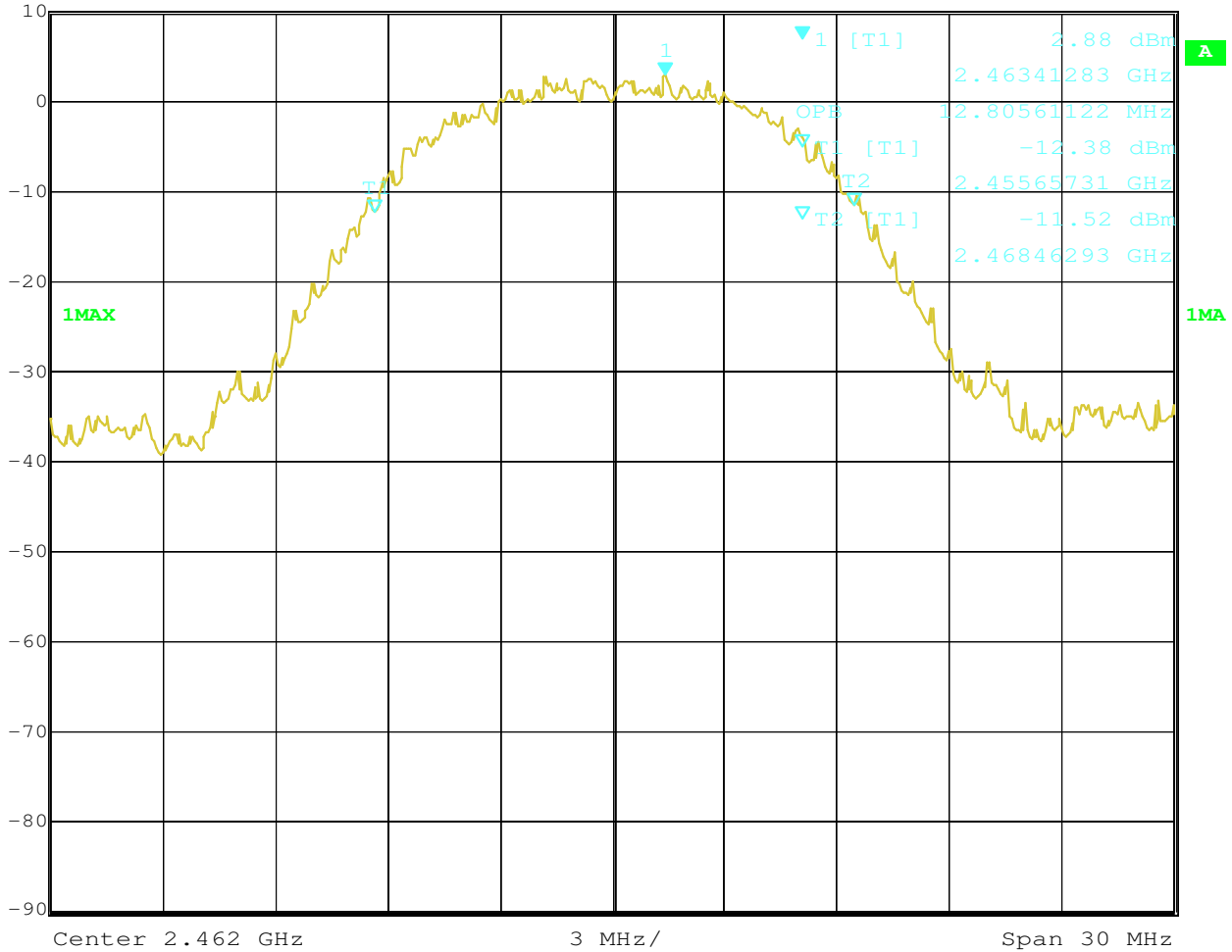
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6. 802.11b at 11Mbps of CH11



Ref Lvl	10 dBm	Marker 1 [T1]	2.88 dBm	RBW	100 kHz	RF Att	20 dB
			2.46341283 GHz	VBW	300 kHz	Unit	dBm
				SWT	7.5 ms		



Date: 27.JUN.2016 12:06:06

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99% Occupied Bandwidth

EUT		Tablet PC		Model		F102	
Mode		802.11g		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	99% Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail		
1	2412	6	16.59	0.5	Pass		
6	2437	6	16.59	0.5	Pass		
11	2462	6	16.59	0.5	Pass		

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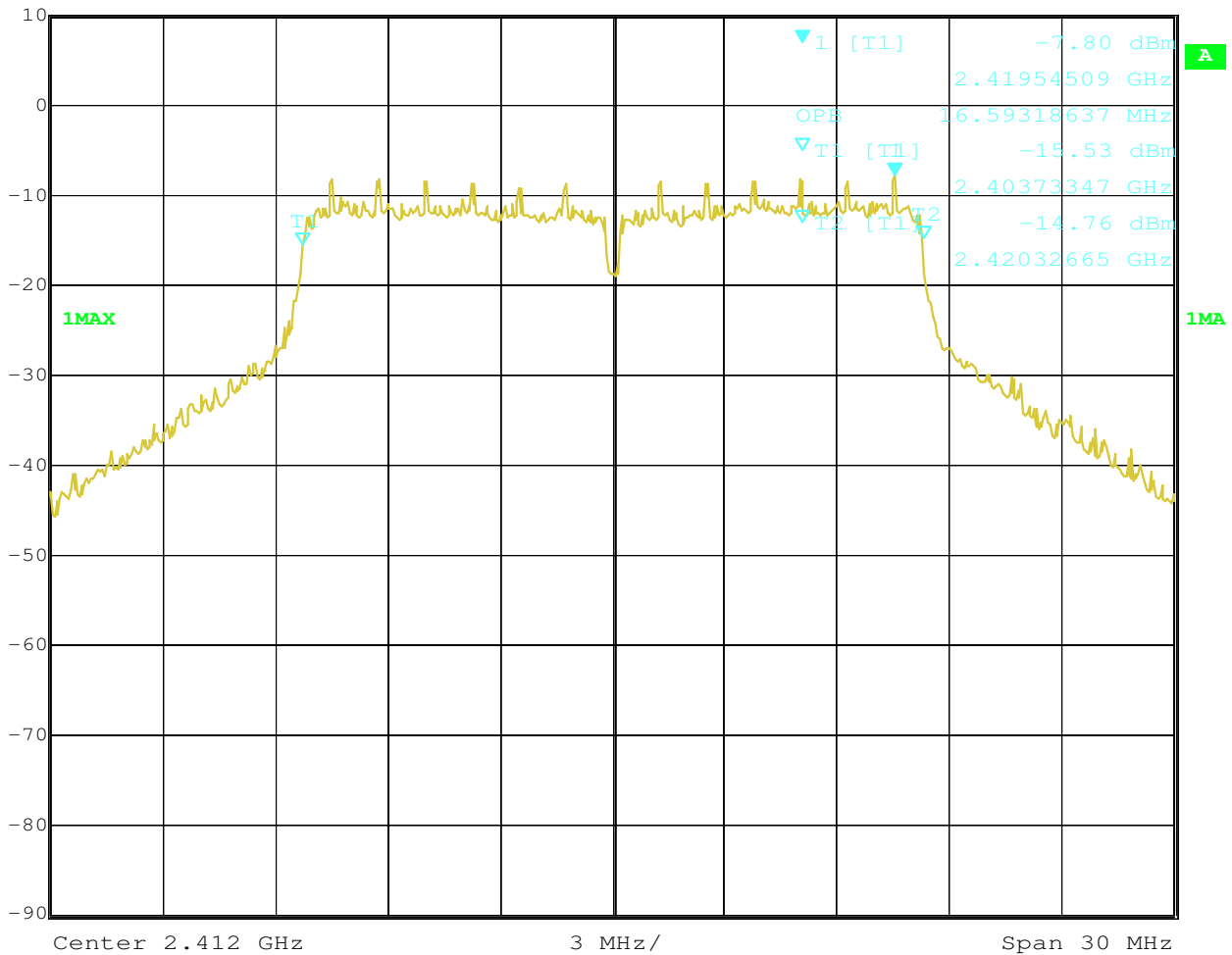


Test Plots:

1. 802.11g at 6Mbps of CH01



Ref Lvl	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	-7.80 dBm	VBW	300 kHz		
	2.41954509 GHz	SWT	7.5 ms	Unit	dBm



Date: 27.JUN.2016 12:14:19

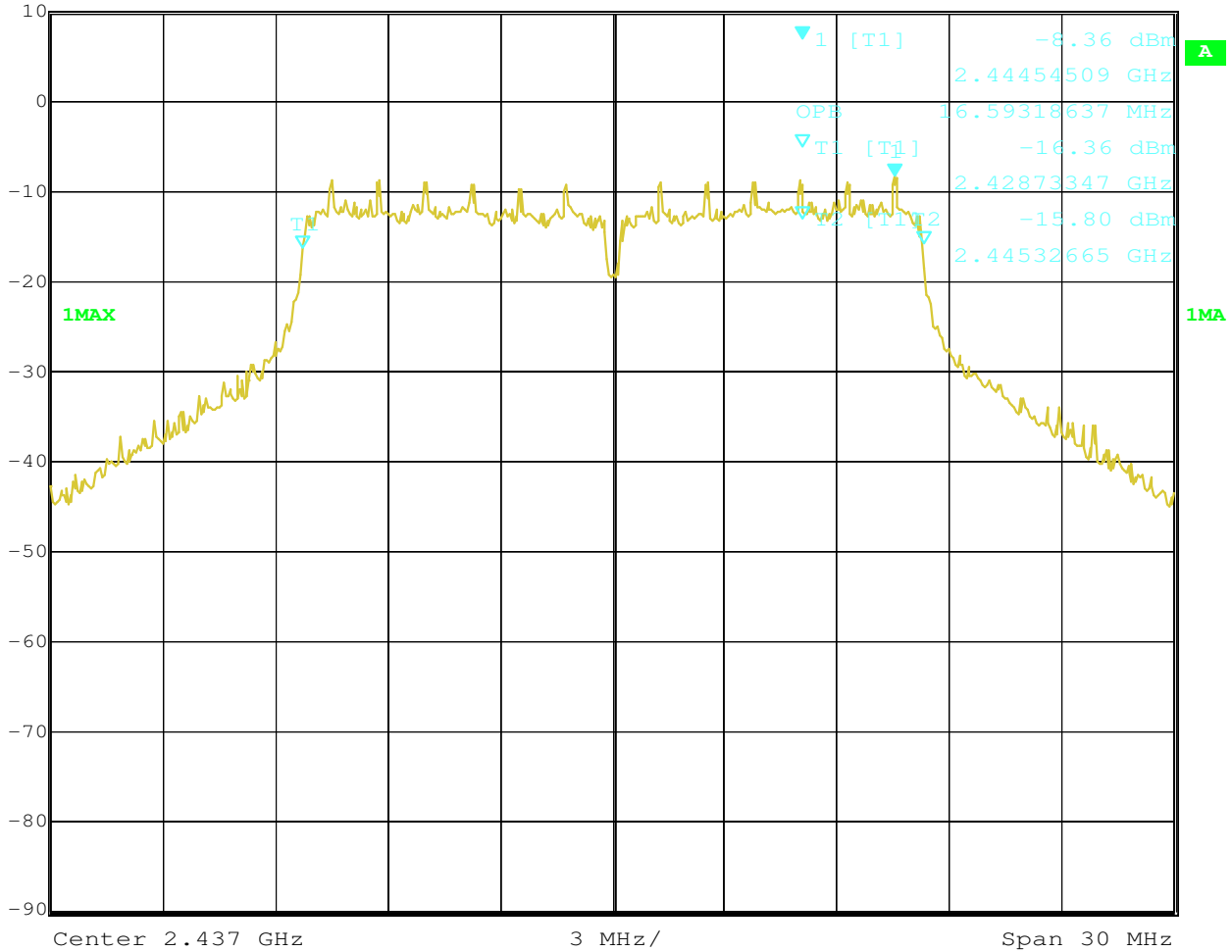
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2. 802.11g at 6Mbps of CH06



Ref Lvl	10 dBm	Marker 1 [T1]	-8.36 dBm	2.44454509 GHz	RBW	100 kHz	RF Att	20 dB
					VBW	300 kHz		
					SWT	7.5 ms	Unit	dBm



Date: 27.JUN.2016 12:11:44

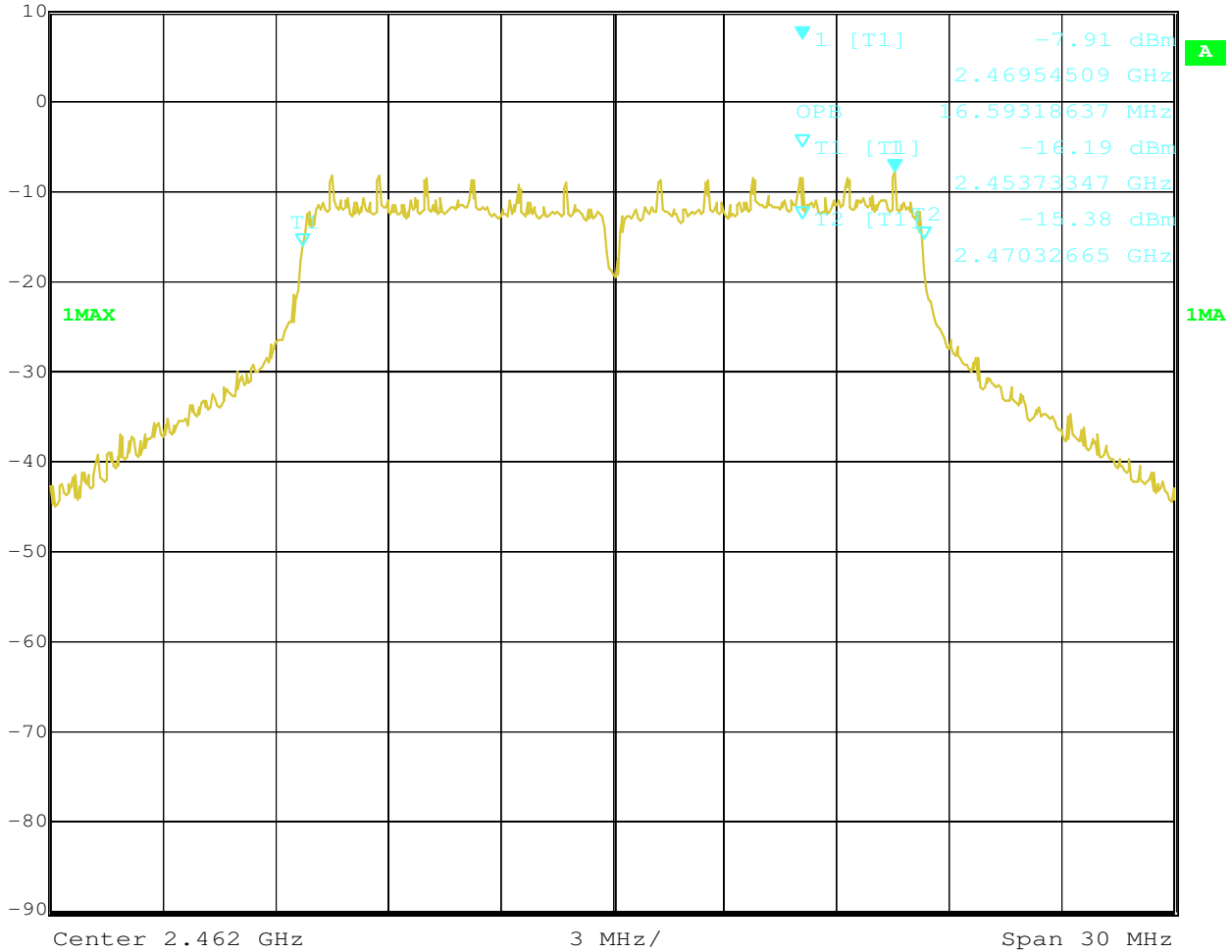
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3. 802.11g at 6Mbps of CH11



Ref Lvl	10 dBm	Marker 1 [T1]	-7.91 dBm	2.46954509 GHz	RBW	100 kHz	RF Att	20 dB
					VBW	300 kHz		
					SWT	7.5 ms	Unit	dBm



Date: 27.JUN.2016 12:10:08

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99% Occupied Bandwidth

EUT		Tablet PC		Model	F102
Mode		802.11n HT20		Input Voltage	DC3.7V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	99% Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	6.5M	17.86	0.5	Pass
6	2437	6.5M	17.86	0.5	Pass
11	2462	6.5M	17.86	0.5	Pass

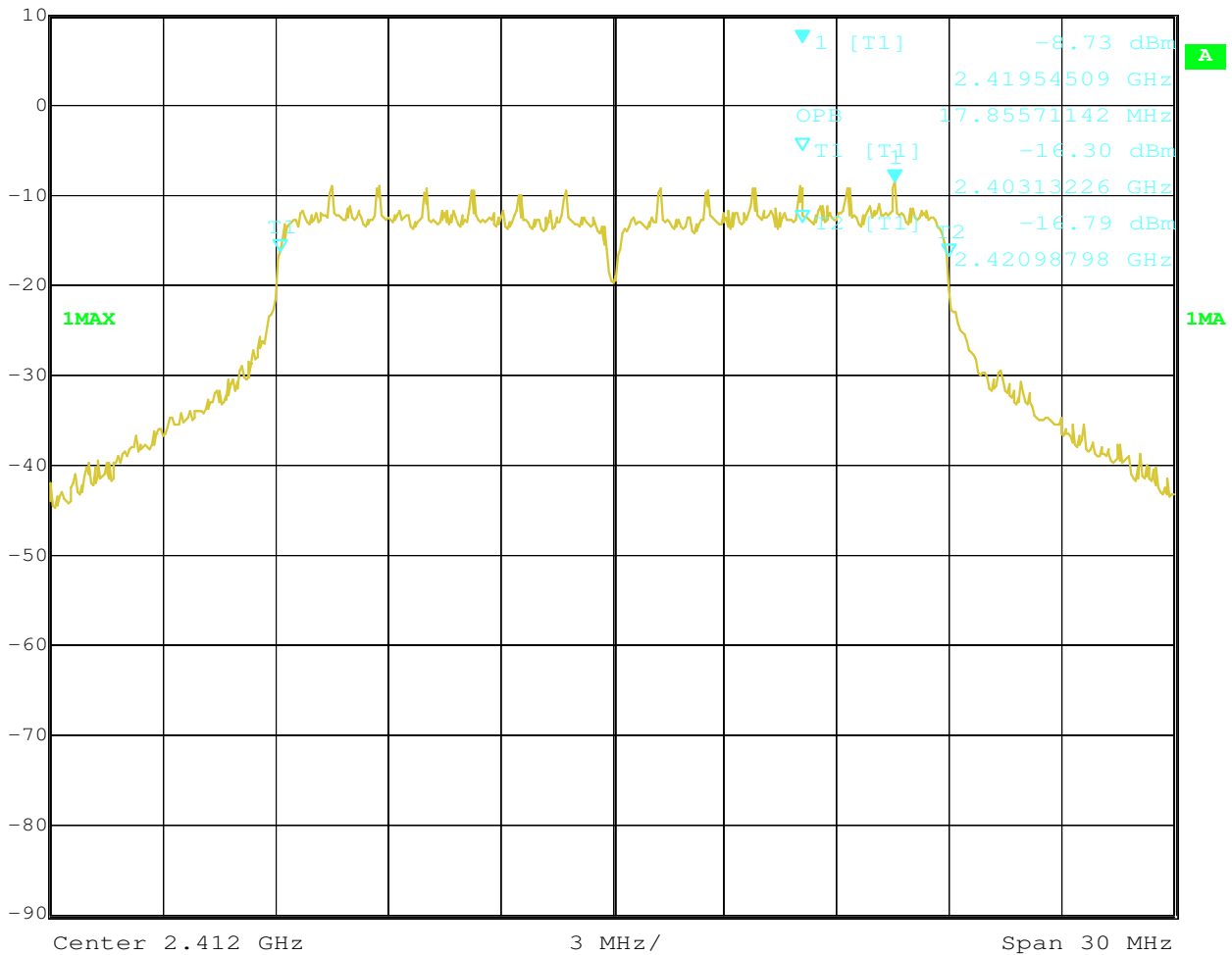
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Test Plots:

1. 802.11n at HT20 of CH01

	Ref Lvl	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
	10 dBm	-8.73 dBm	VBW	300 kHz		
		2.41954509 GHz	SWT	7.5 ms	Unit	dBm



Date: 27.JUN.2016 12:18:20

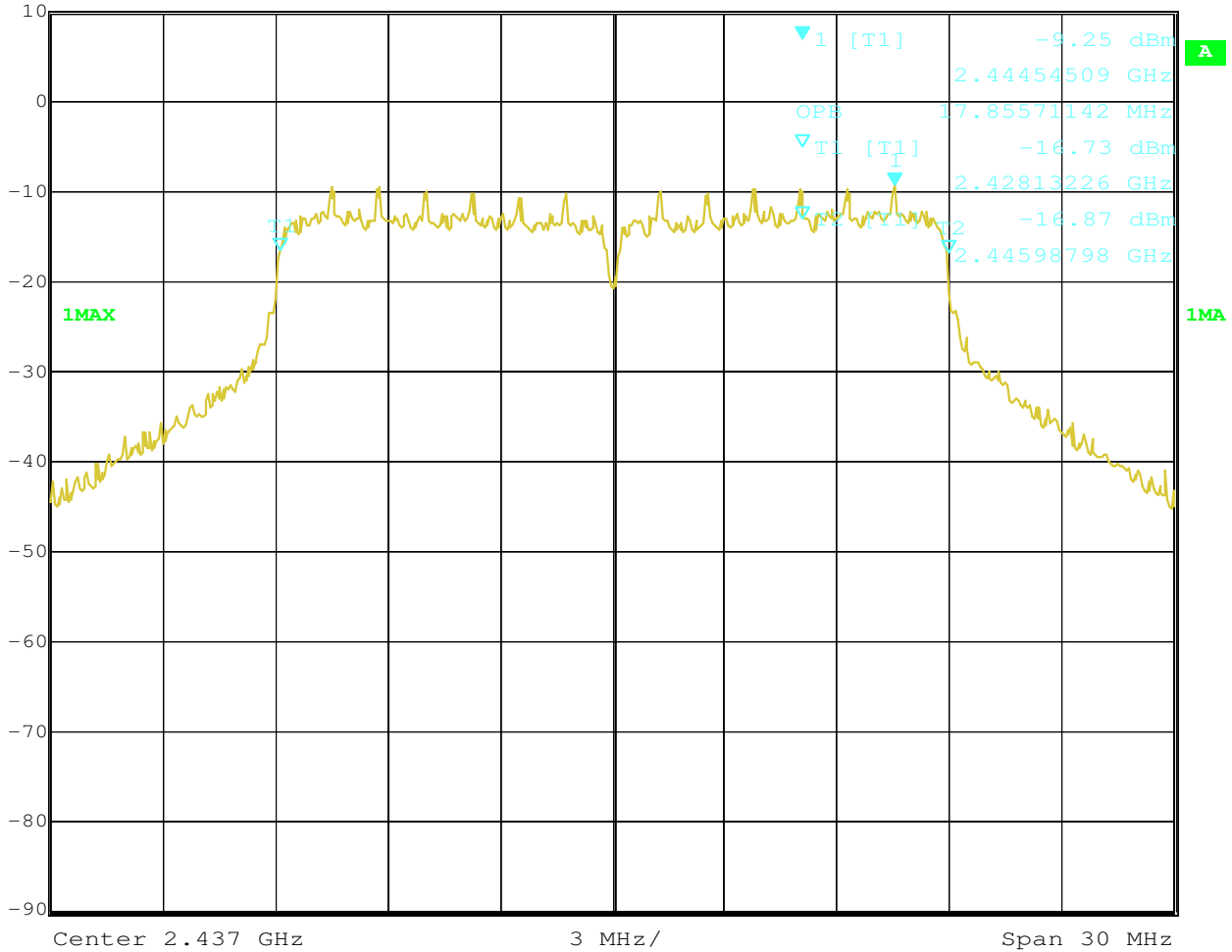
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2. 802.11n at HT20 of CH06



Ref Lvl	10 dBm	Marker 1 [T1]	-9.25 dBm	2.44454509 GHz	RBW	100 kHz	RF Att	20 dB	VBW	300 kHz	SWT	7.5 ms	Unit	dBm
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Date: 27.JUN.2016 12:21:18

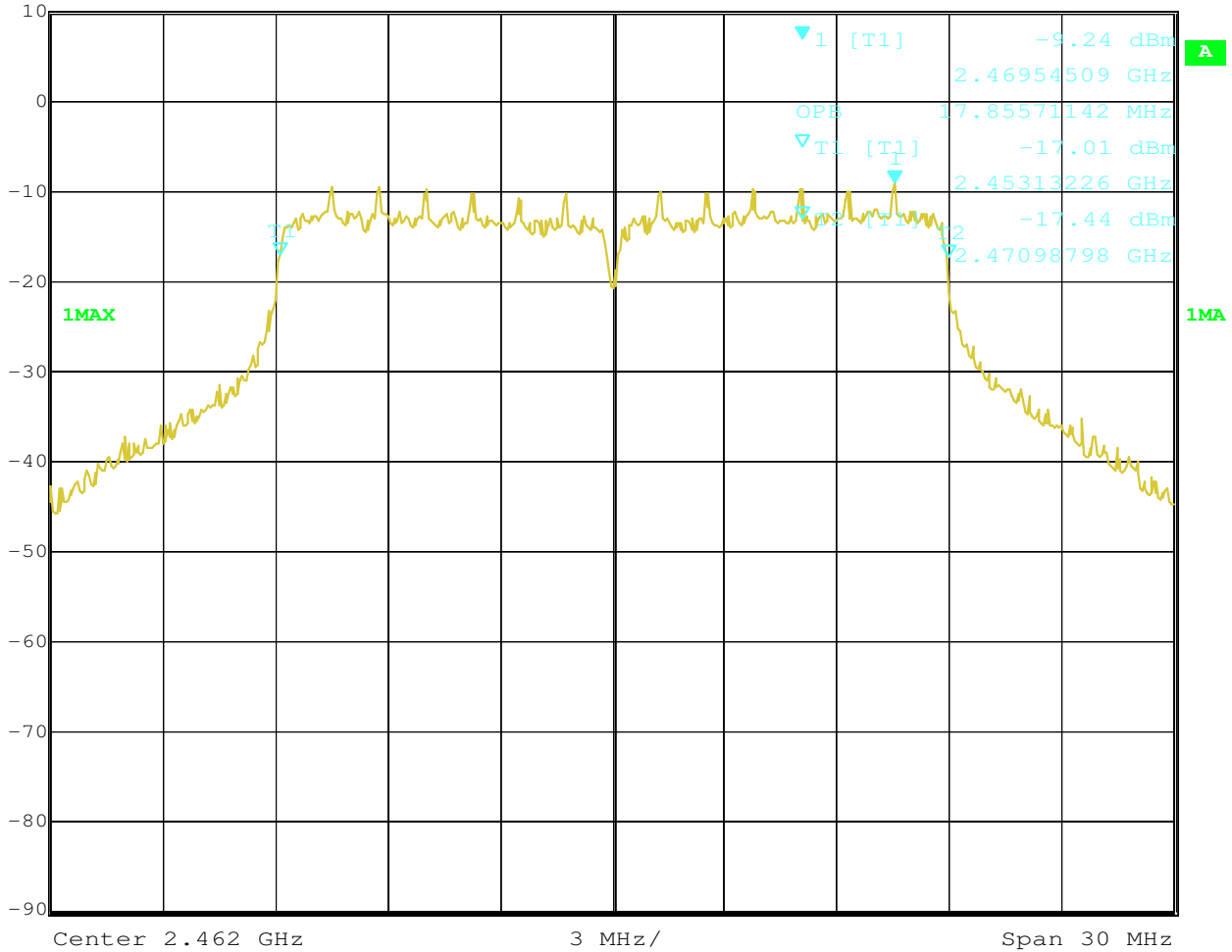
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3. 802.11n at HT20 of CH11



Ref Lvl	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	-9.24 dBm	VBW	300 kHz		
	2.46954509 GHz	SWT	7.5 ms	Unit	dBm



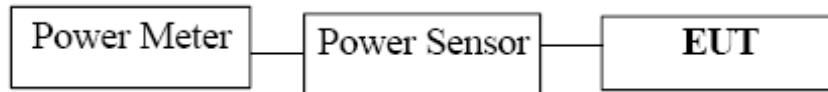
Date: 27.JUN.2016 12:24:45

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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 and Average power was measured

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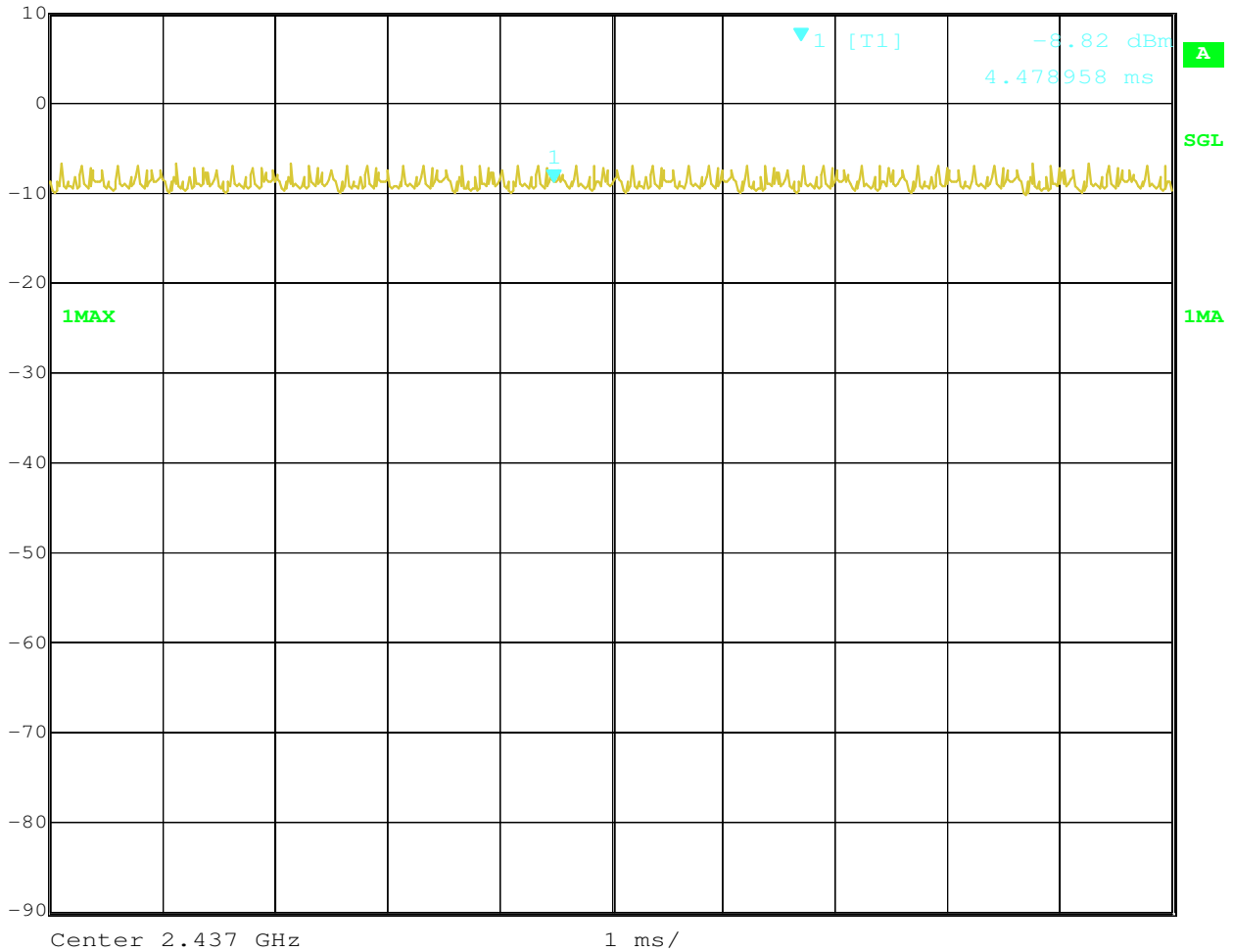
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Duty Cycle test plot:



Ref Lvl	10 dBm	Marker 1 [T1]	-8.82 dBm	RBW	1 MHz	RF Att	20 dB
			4.478958 ms	VBW	3 MHz	Unit	
				SWT	10 ms		



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8.4 Test Results

EUT	Tablet PC		Model	F102	
Mode	802.11b		Input Voltage	DC3.7V	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)		Power Limit (dBm)	Pass/ Fail
		Peak	Average		
1	2412	15.27	11.67	30	Pass
6	2437	16.82	13.25	30	Pass
11	2462	17.40	13.76	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:

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

3. The worse case was recorded

EUT	Tablet PC		Model	F102	
Mode	802.11g		Input Voltage	DC3.7V	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)		Power Limit (dBm)	Pass/ Fail
		Peak	Average		
1	2412	11.13	5.77	30	Pass
6	2437	11.07	5.68	30	Pass
11	2462	11.11	5.74	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:

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

3. The worse case was recorded

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EUT	Tablet PC		Model	F102	
Mode	802.11n (HT20)		Input Voltage	DC3.7V	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)		Power Limit (dBm)	Pass/ Fail
		Peak	Average		
1	2412	10.69	5.41	30	Pass
6	2437	10.64	5.33	30	Pass
11	2462	10.84	5.52	30	Pass

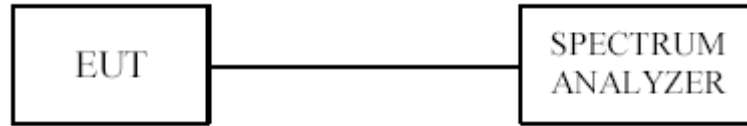
- Note: 1. At final test to get the worst-case emission at 6.5Mbps of 11n HT20 for CH01, CH06 and CH11
 2. The result basic equation calculation as follow:
 Max. Power Output = Power Reading + Cable loss + Attenuator
 3. The worse case was recorded

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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.

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9.4 Test Result

EUT	Tablet PC		Model	F102
Mode	802.11b 11Mbps		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Final RF Power Level (dBm)	Maximum Limit (dBm)	Pass/ Fail
11Mbps				
1	2412	-8.53	8	Pass
6	2437	-9.05	8	Pass
11	2462	-8.35	8	Pass

EUT	Tablet PC		Model	F102
Mode	802.11b 1Mbps		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Final RF Power Level in (dBm)	Maximum Limit (dBm)	Pass/ Fail
1Mbps				
1	2412	-8.37	8	Pass
6	2437	-7.48	8	Pass
11	2462	-8.17	8	Pass

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EUT	Tablet PC		Model	F102
Mode	802.11g 6Mbps		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Final RF Power Level in (dBm)	Maximum Limit (dBm)	Pass/ Fail
6Mbps				
1	2412	-13.04	8	Pass
6	2437	-13.20	8	Pass
11	2462	-13.30	8	Pass

EUT	Tablet PC		Model	F102
Mode	802.11n HT20 6.5Mbps		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Final RF Power Level (dBm)	Maximum Limit (dBm)	Pass/ Fail
HT20				
1	2412	-14.54	8	Pass
6	2437	-15.05	8	Pass
11	2462	-15.00	8	Pass

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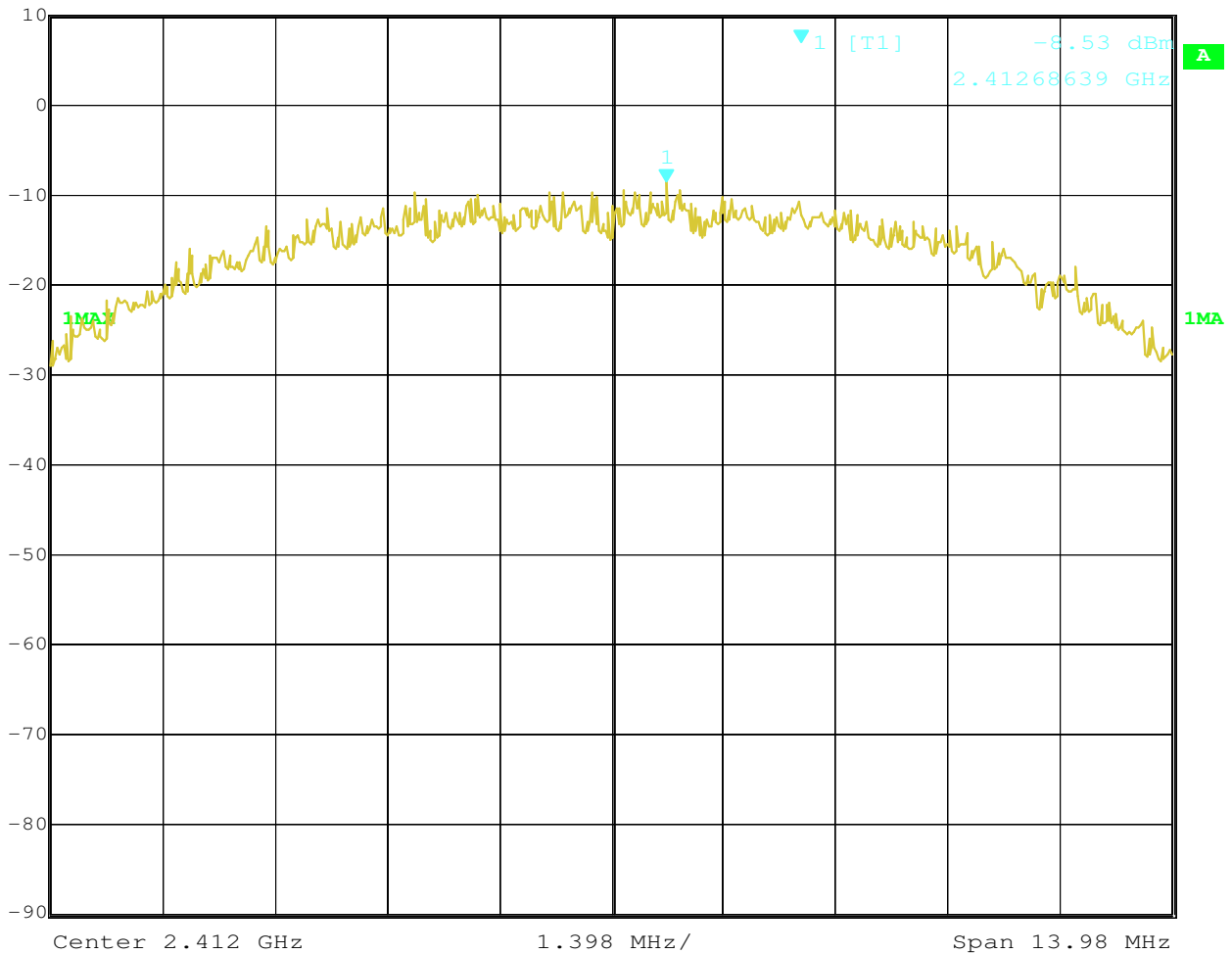
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9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-8.53 dBm	VBW	30 kHz	
	10 dBm	2.41268639 GHz	SWT	350 ms	Unit dBm



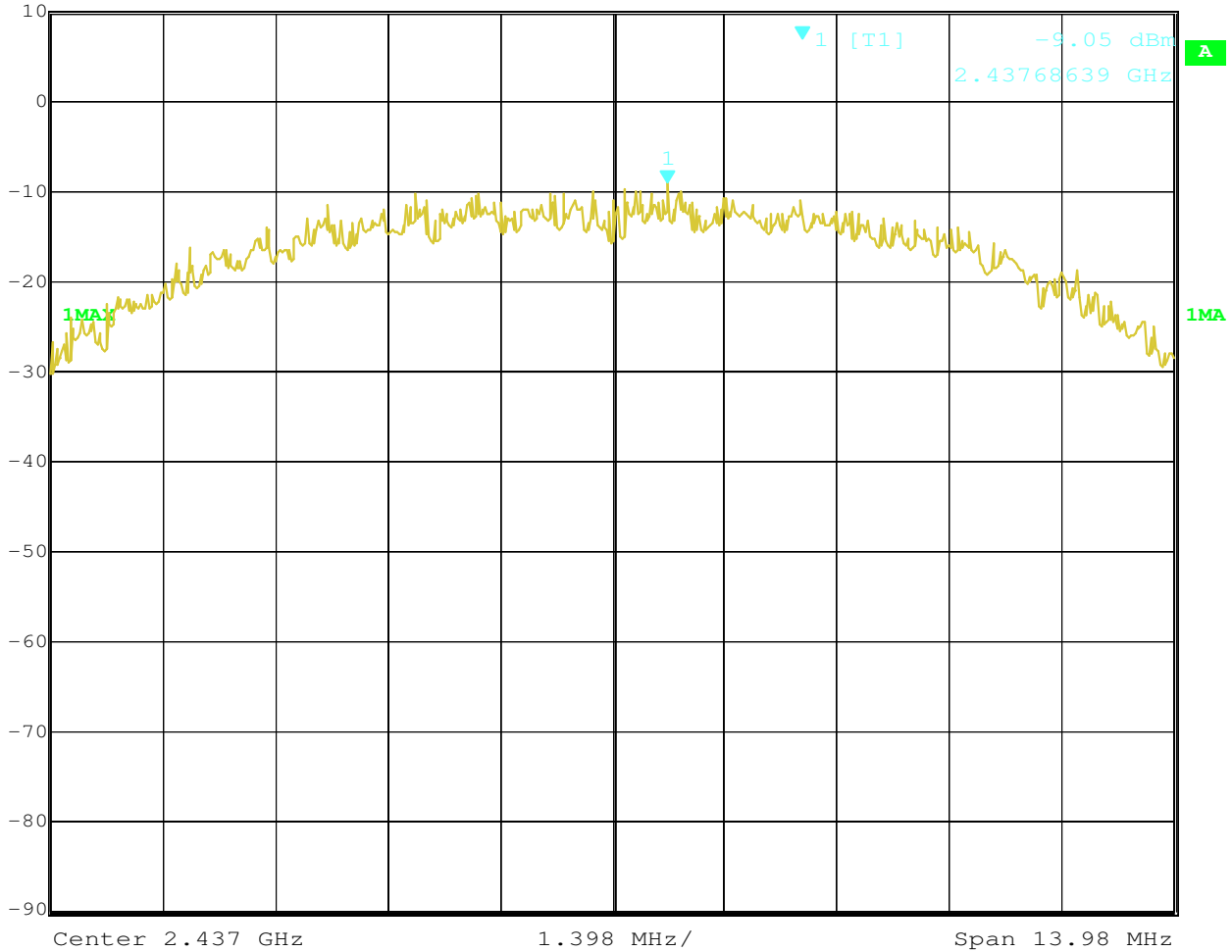
Date: 27.JUN.2016 15:11:42

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2. 802.11b at 11Mbps at CH06

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-9.05 dBm	VBW	30 kHz	
	10 dBm	2.43768639 GHz	SWT	350 ms	Unit dBm

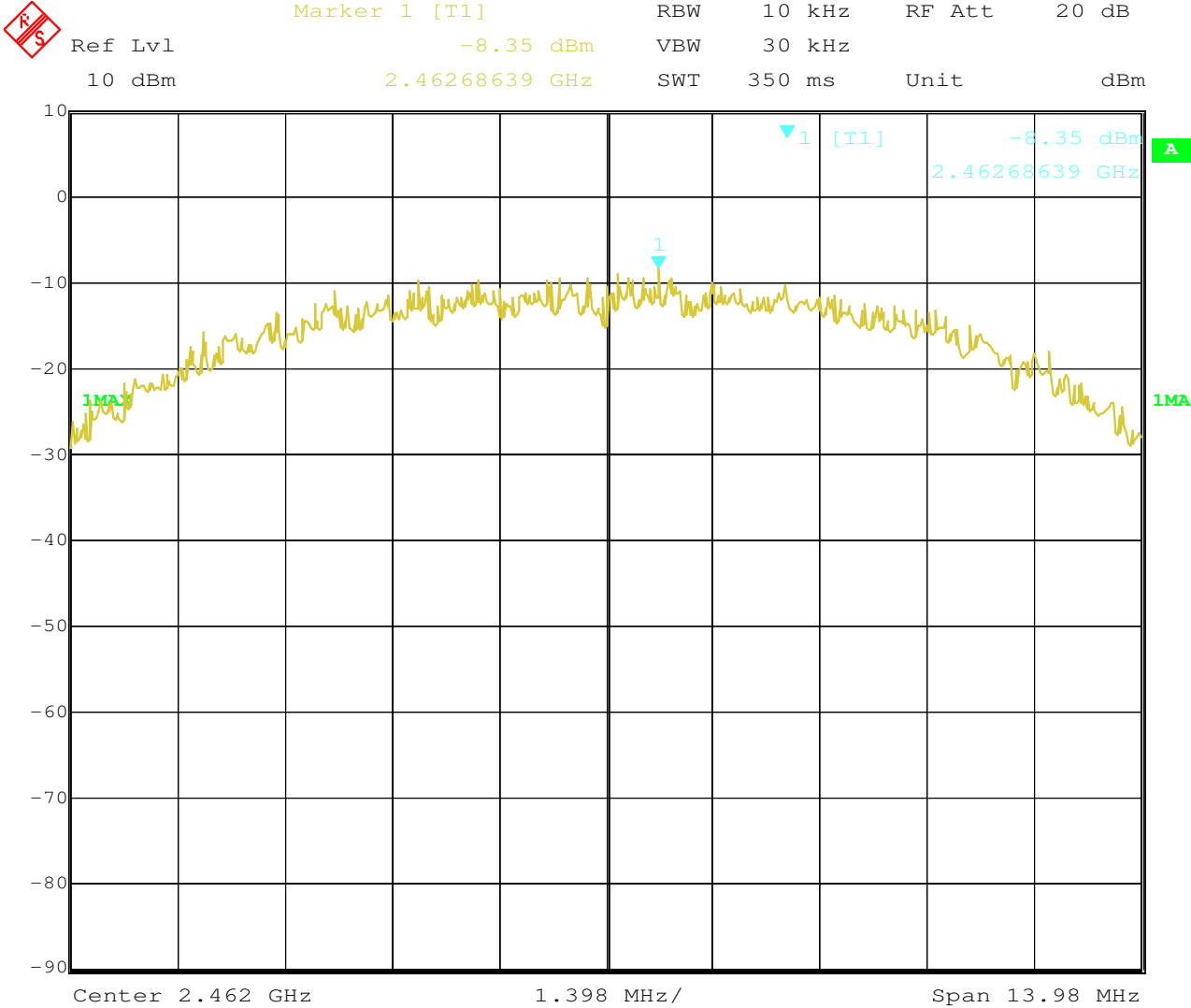


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3. 802.11b at 11Mbps of CH11



Date: 27.JUN.2016 15:10:15

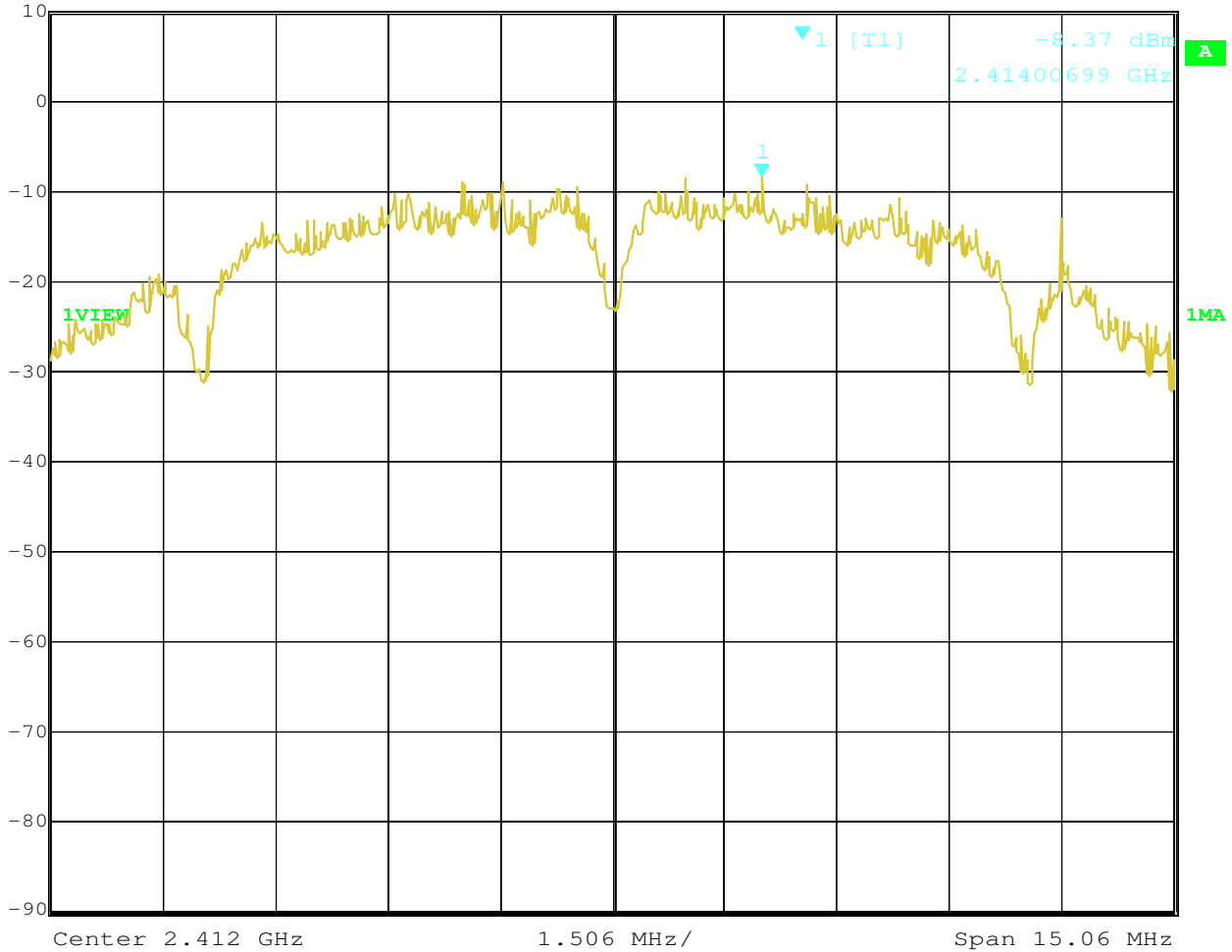
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4. 802.11b at 1Mbps of CH1



Ref Lvl	10 dBm	Marker 1 [T1]	-8.37 dBm	2.41400699 GHz	RBW	10 kHz	RF Att	20 dB
					VBW	30 kHz	Unit	dBm
					SWT	380 ms		



Date: 27.JUN.2016 15:14:42

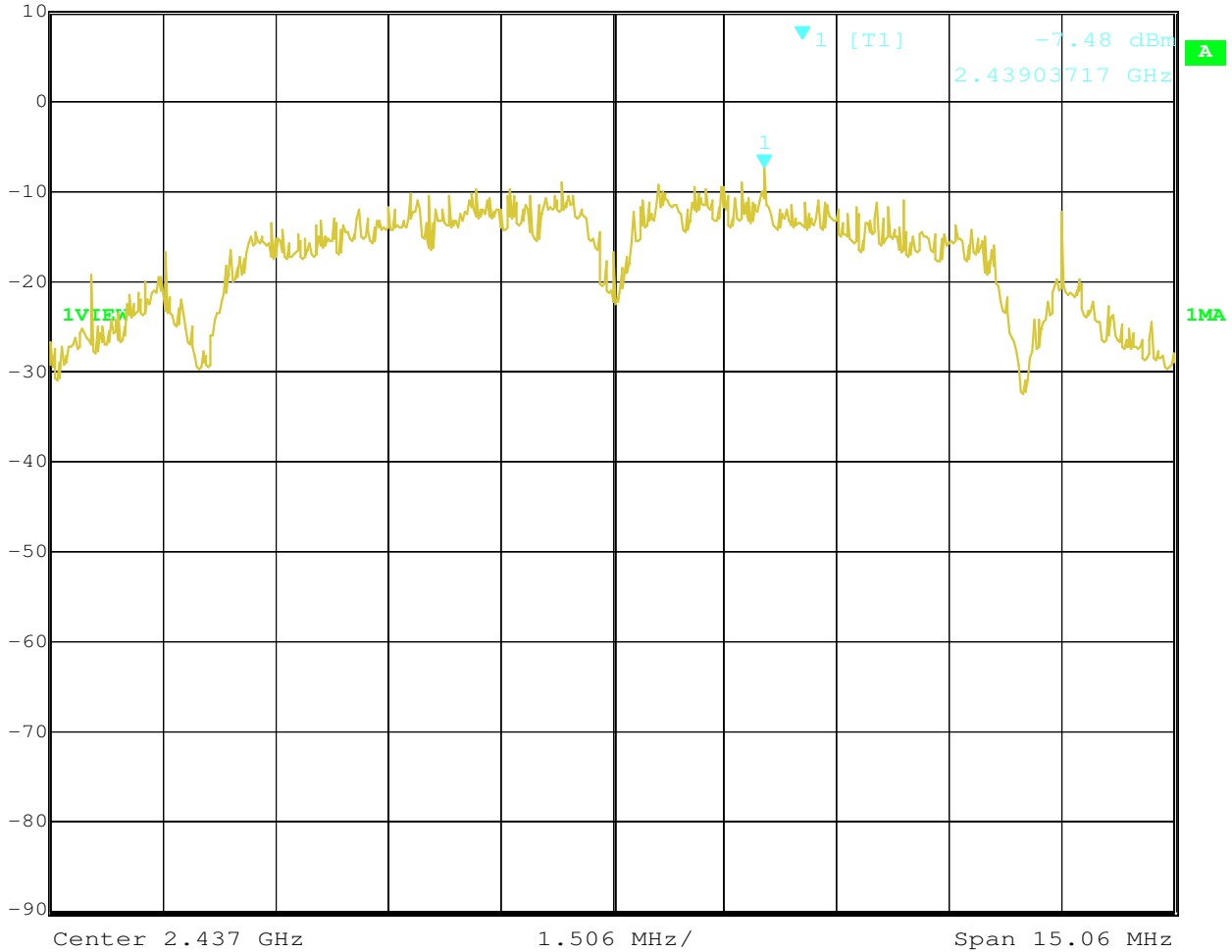
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5. 802.11b at 1Mbps of CH6



Ref Lvl	10 dBm	Marker 1 [T1]	-7.48 dBm	RBW	10 kHz	RF Att	20 dB
			2.43903717 GHz	VBW	30 kHz	Unit	dBm
				SWT	380 ms		



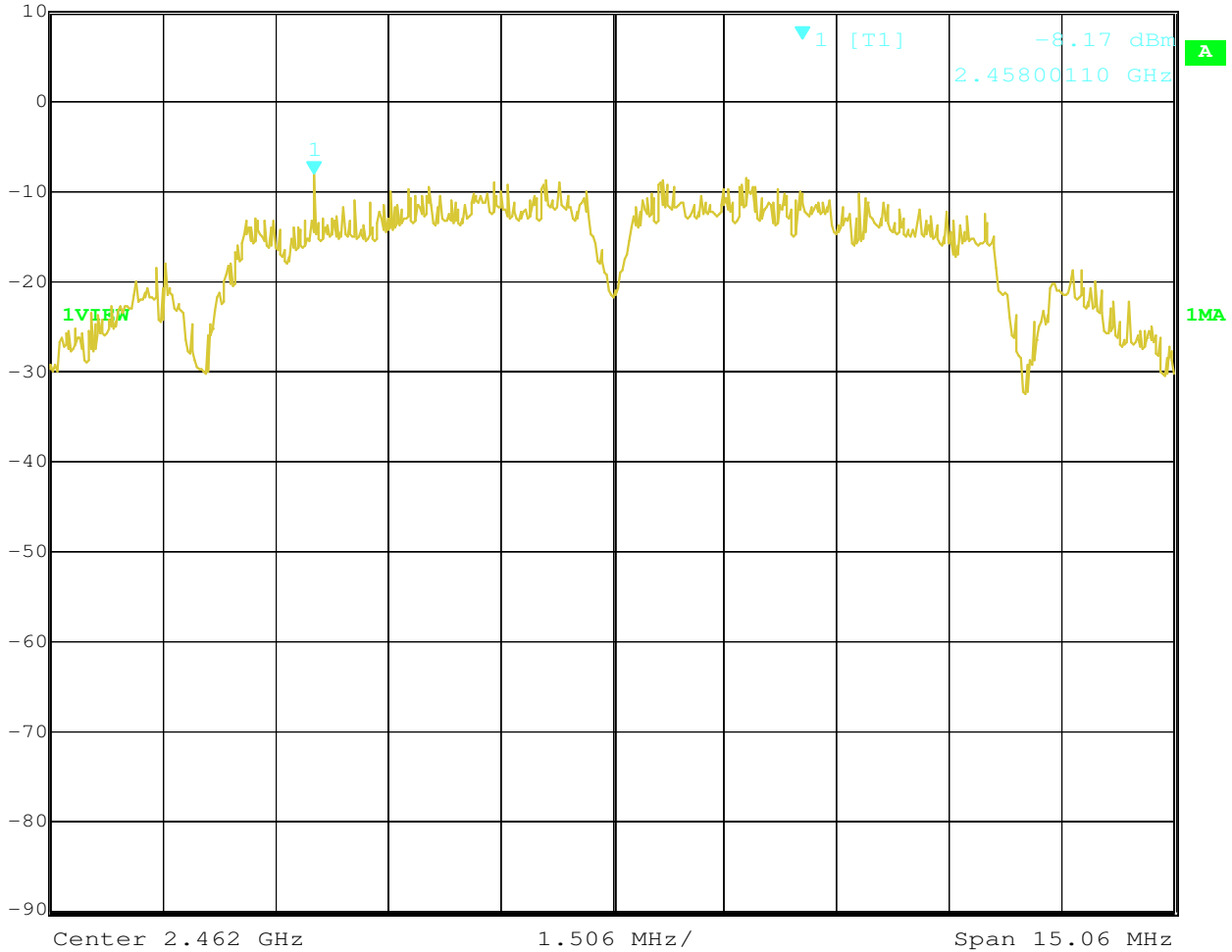
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6. 802.11b at 1Mbps of CH11

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-8.17 dBm	VBW	30 kHz	
	10 dBm	2.45800110 GHz	SWT	380 ms	Unit dBm



Date: 27.JUN.2016 15:18:34

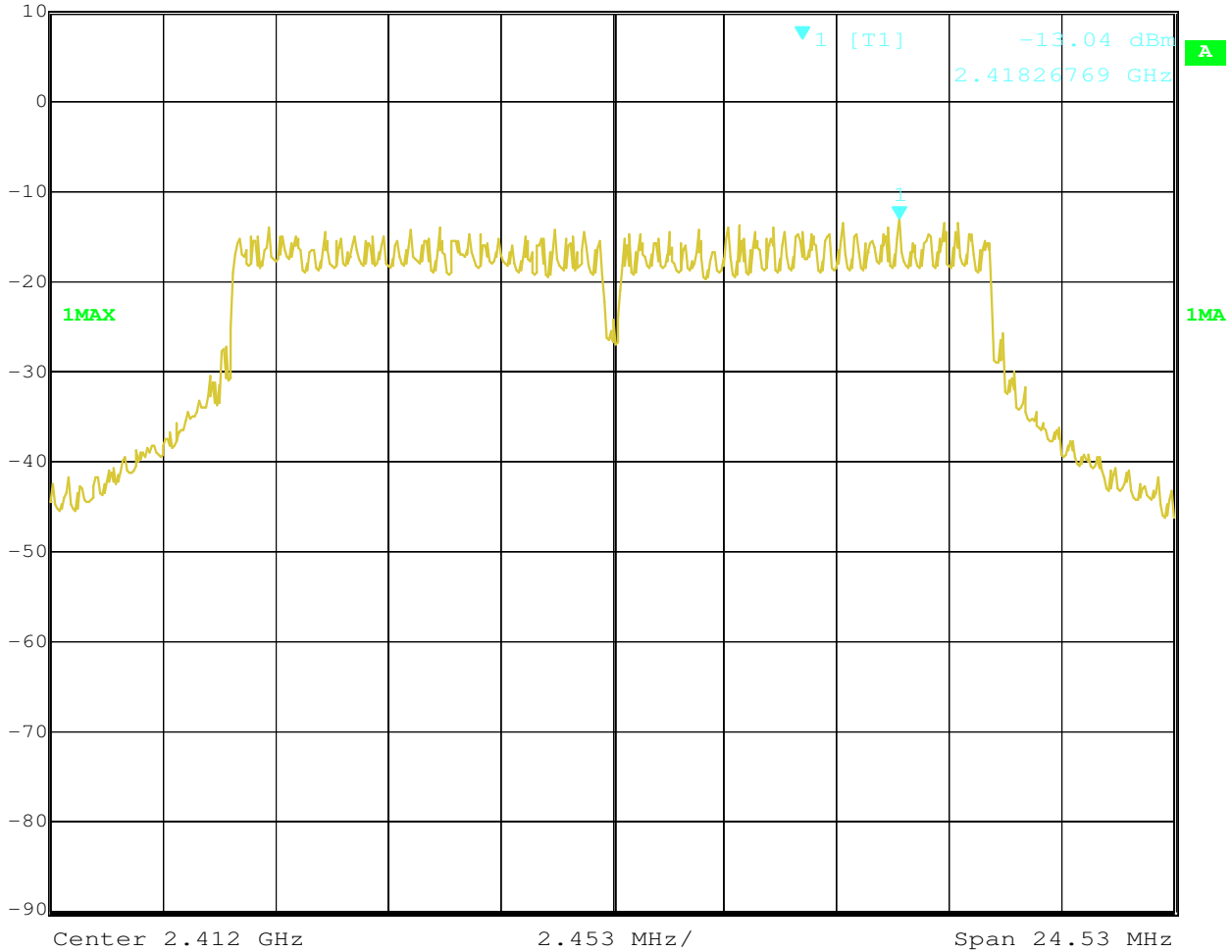
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7. 802.11g at 6Mbps of CH1



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
10 dBm	-13.04 dBm	VBW	30 kHz		
	2.41826769 GHz	SWT	620 ms	Unit	dBm



Date: 27.JUN.2016 15:27:36

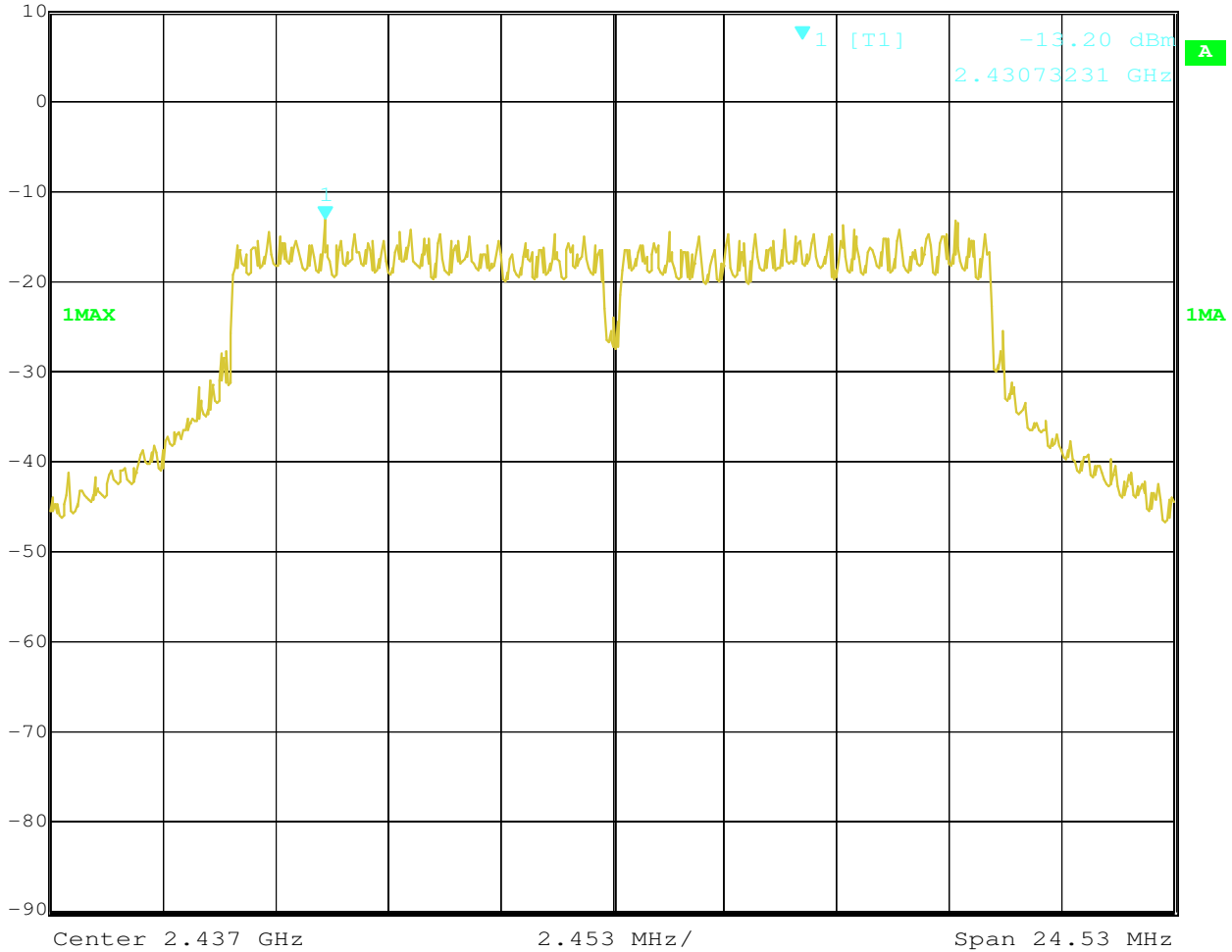
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8. 802.11g at 6Mbps of CH6



Ref Lvl	10 dBm	Marker 1 [T1]	-13.20 dBm	2.43073231 GHz	RBW	10 kHz	RF Att	20 dB	VBW	30 kHz	SWT	620 ms	Unit	dBm
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Date: 27.JUN.2016 15:24:44

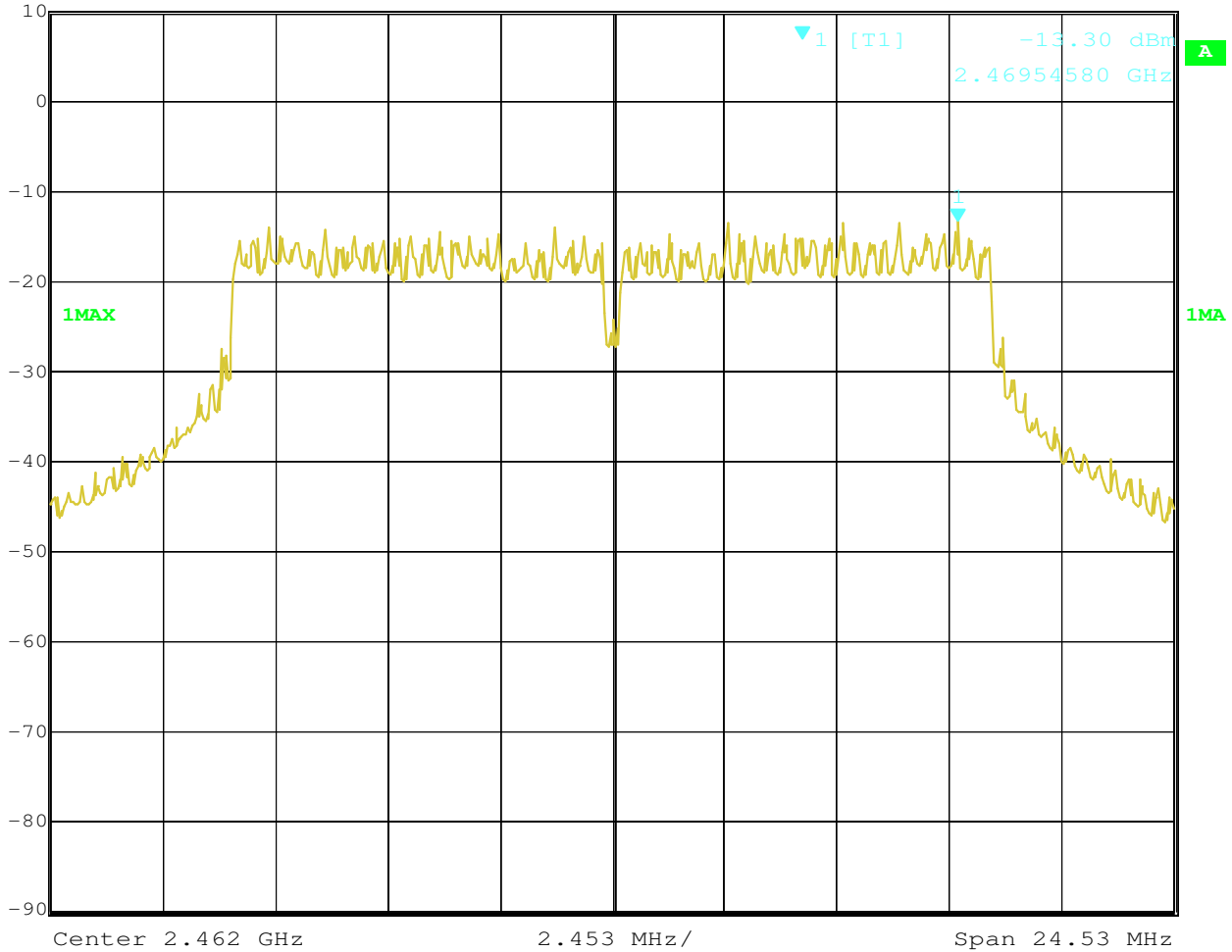
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9. 802.11g at 6Mbps of CH11



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
10 dBm	-13.30 dBm	VBW	30 kHz		
	2.46954580 GHz	SWT	620 ms	Unit	dBm



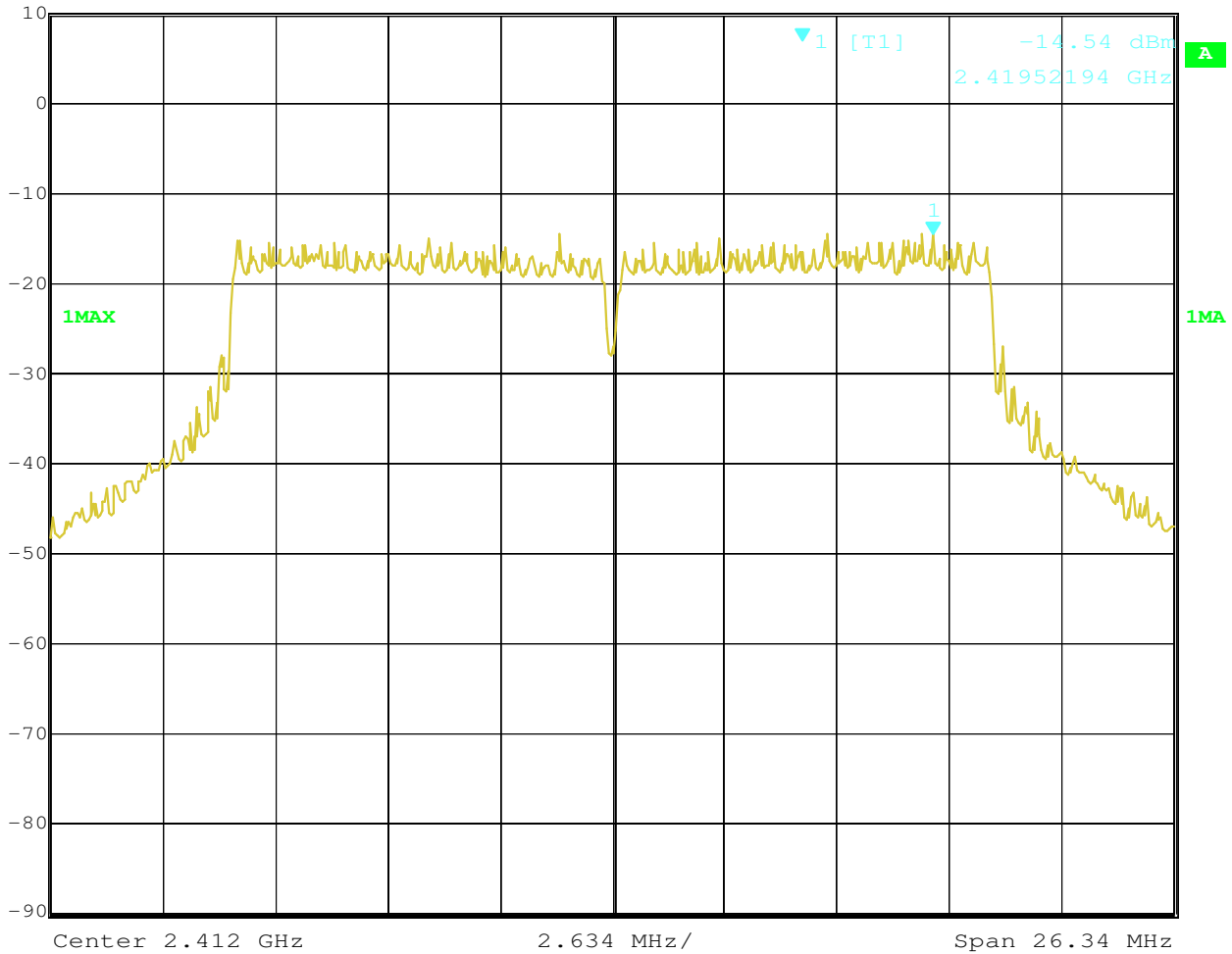
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10. 802.11n at HT20 of CH01

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-14.54 dBm	VBW	30 kHz	
	10 dBm	2.41952194 GHz	SWT	660 ms	Unit dBm



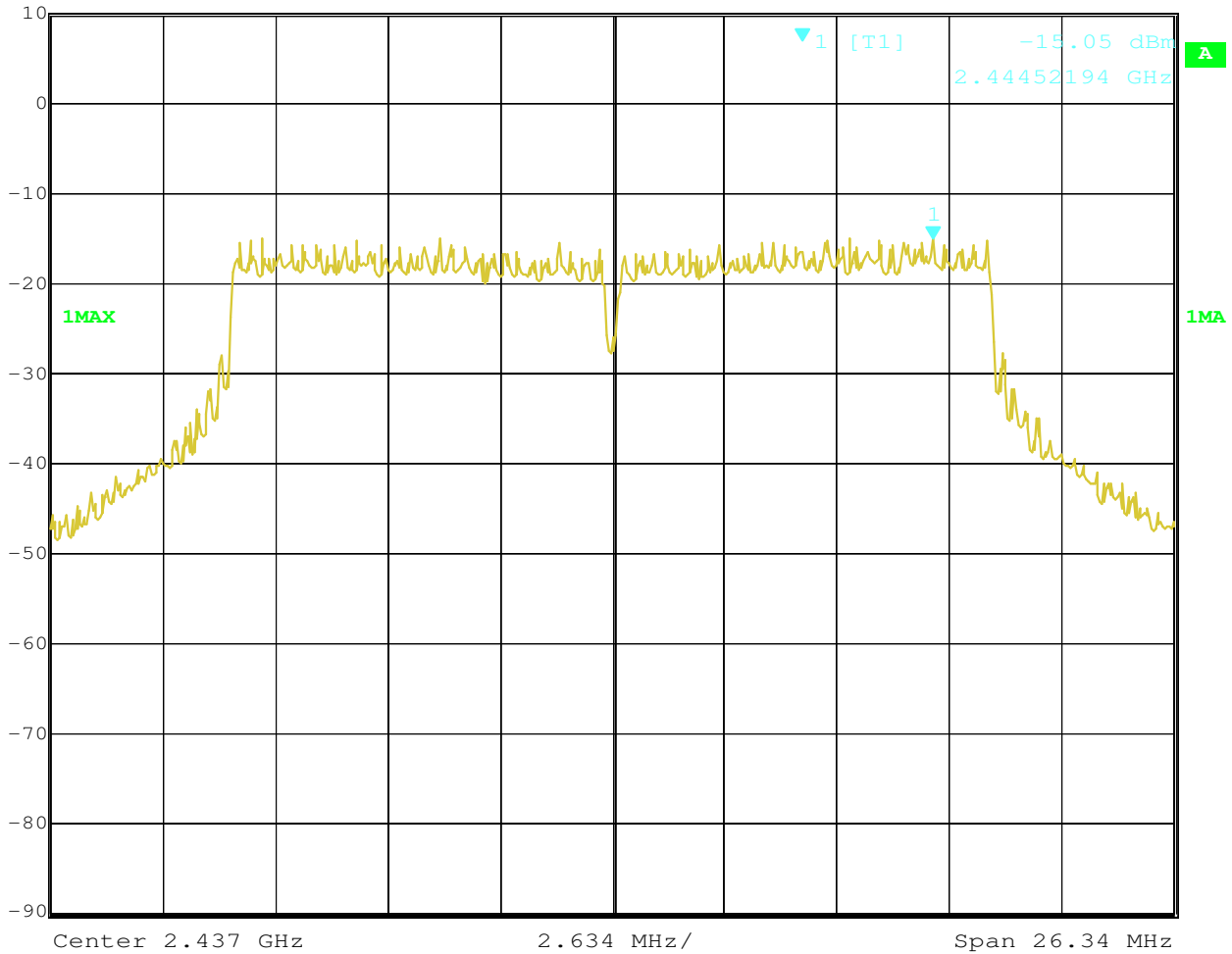
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11. 802.11n at HT20 of CH06

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-15.05 dBm	VBW	30 kHz	
	10 dBm	2.44452194 GHz	SWT	660 ms	Unit dBm



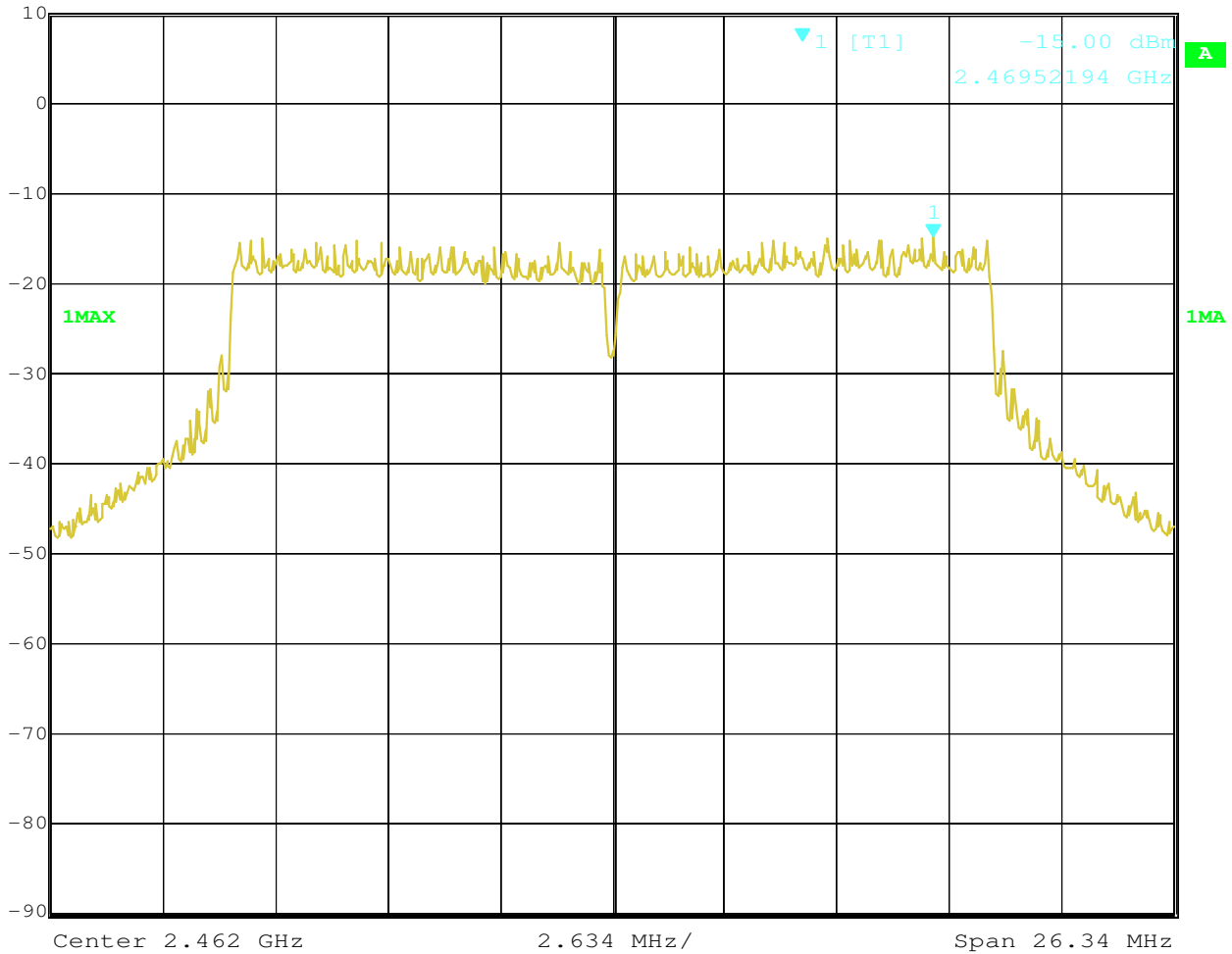
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12. 802.11n at HT20 of CH11

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-15.00 dBm	VBW	30 kHz	
	10 dBm	2.46952194 GHz	SWT	660 ms	Unit dBm



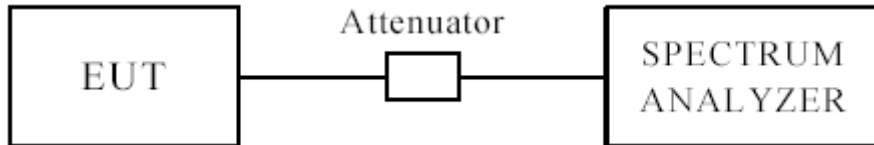
Date: 27.JUN.2016 15:44:01

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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 -20dB 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: 1. this is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), after pre-test. It was found that the worse radiated emission was get at the lying position. the worse case was recorded

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

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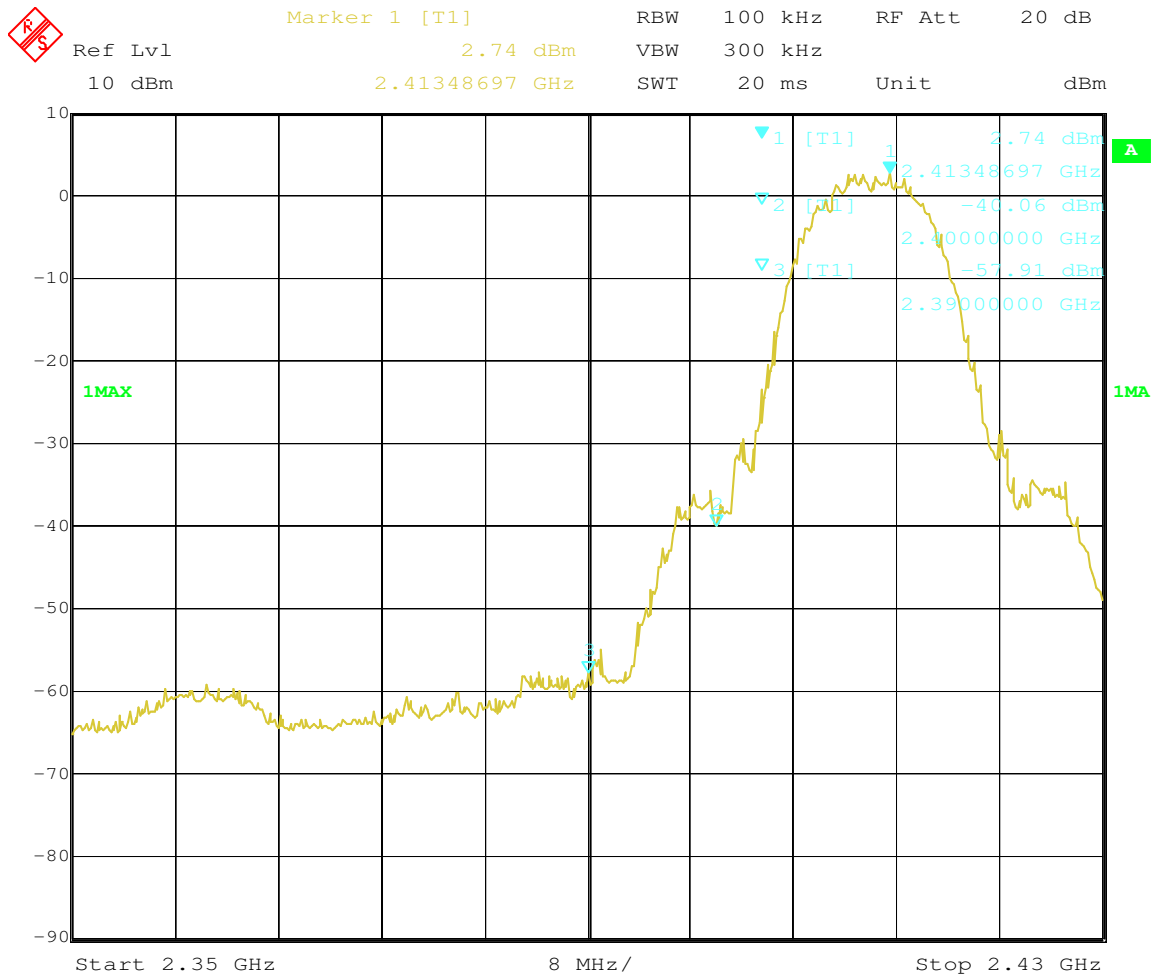
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge Measurement

EUT	Tablet PC	Model	F102
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.JUN.2016 15:55:38

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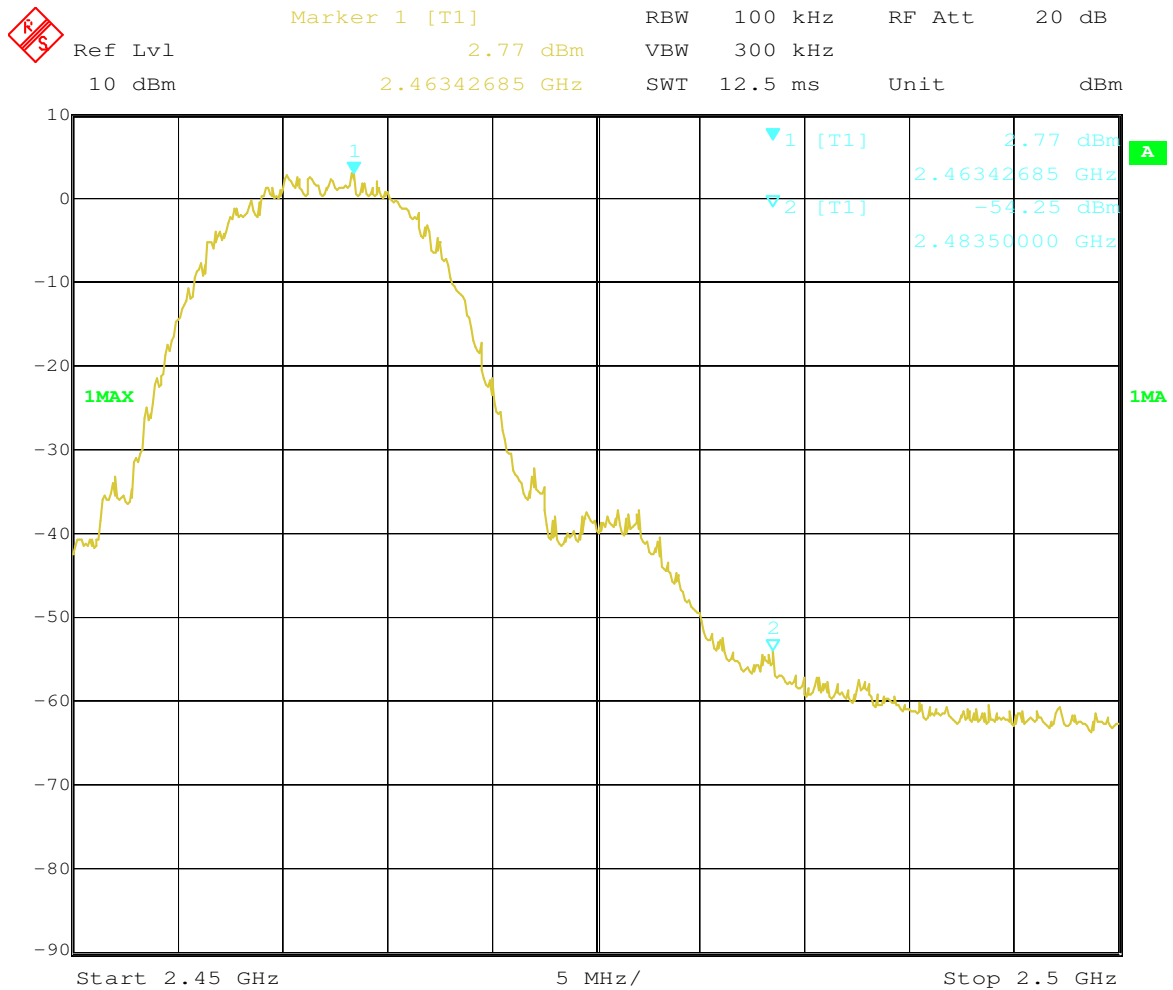


CH11 at 11Mbps

10.4 Band-edge Measurement

EUT	Tablet PC	Model	F102
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.JUN.2016 15:54:27

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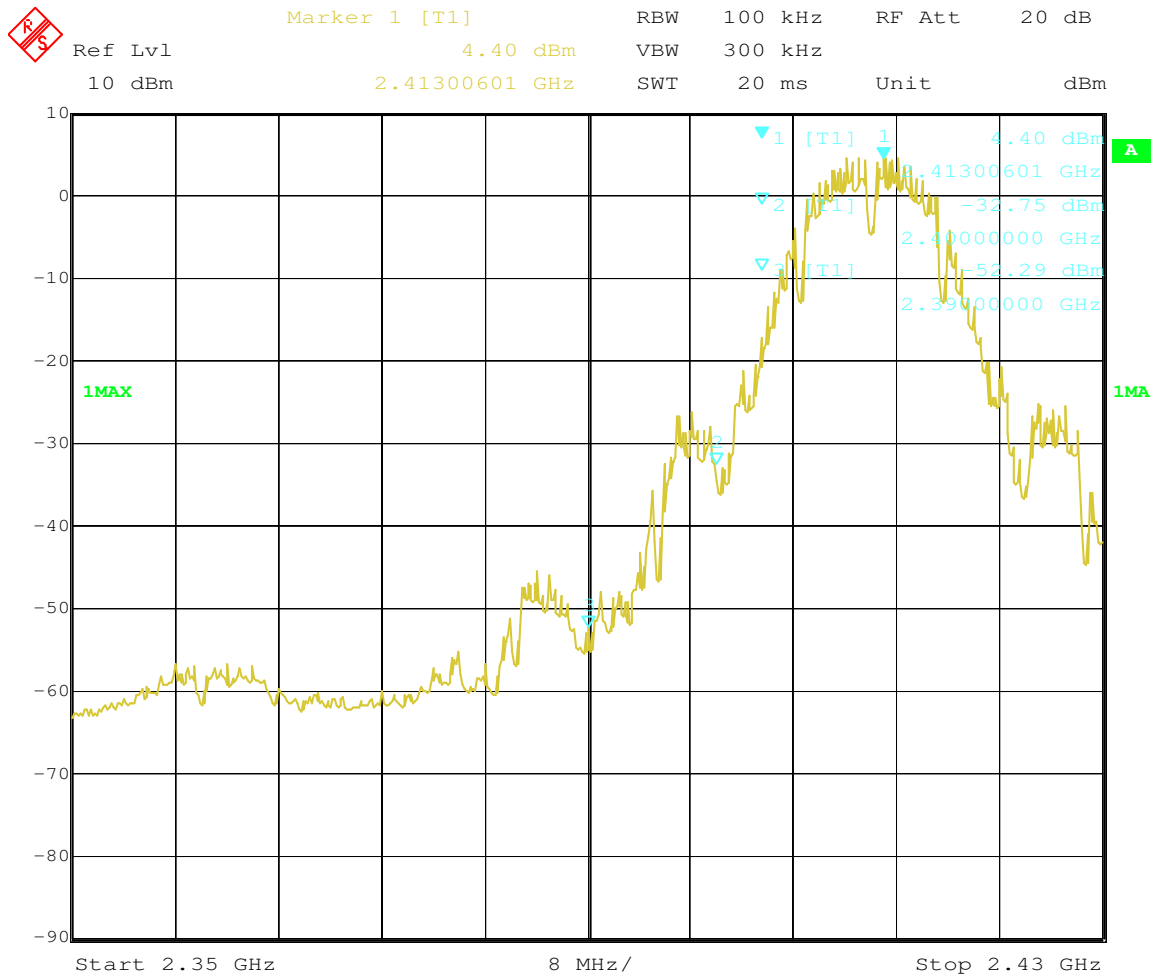
For 802.11b mode

CH01 at 1Mbps

10.4 Band-edge Measurement

EUT	Tablet PC	Model	F102
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.JUN.2016 16:02:00

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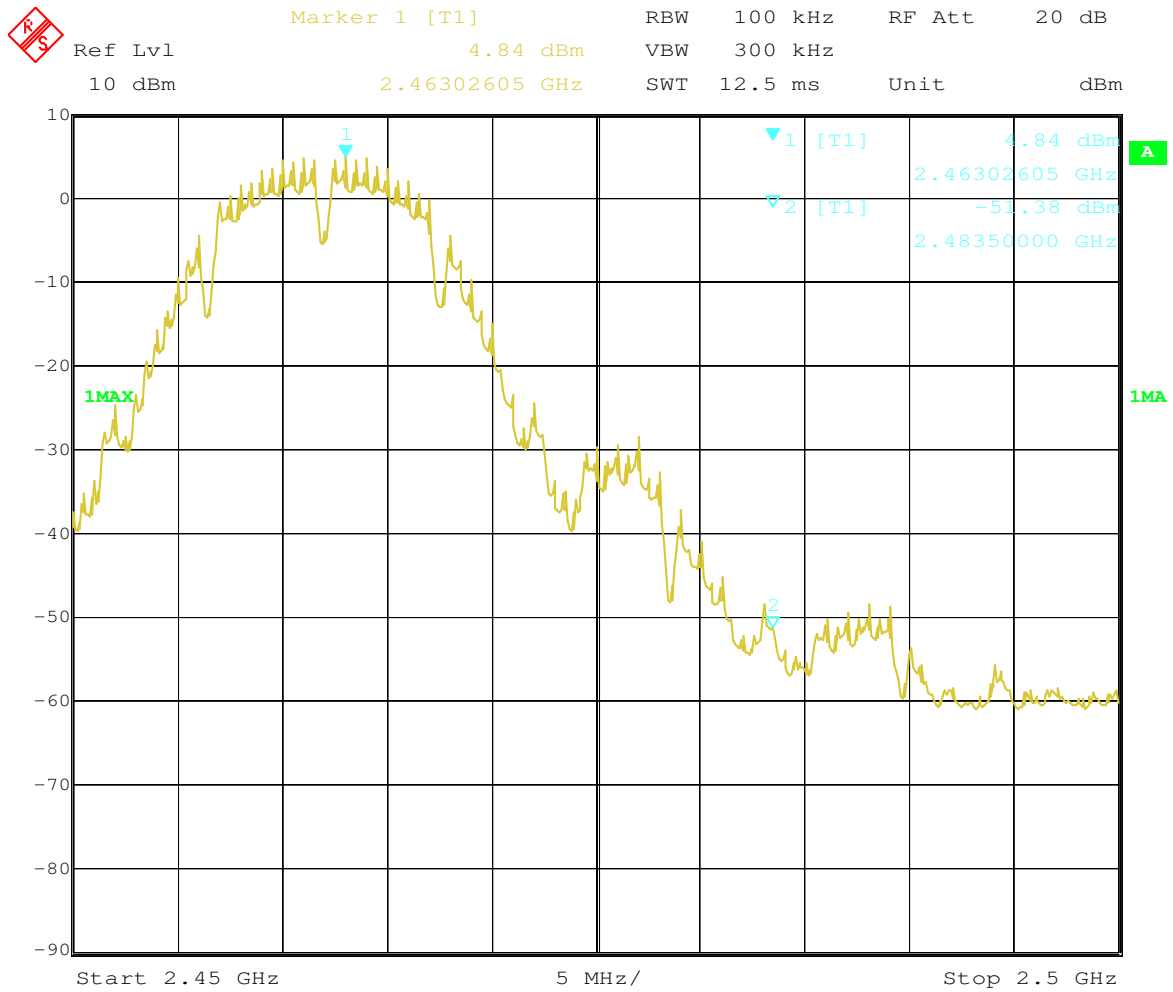


CH11 at 1Mbps

10.4 Band-edge Measurement

EUT	Tablet PC	Model	F102
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.JUN.2016 15:52:54

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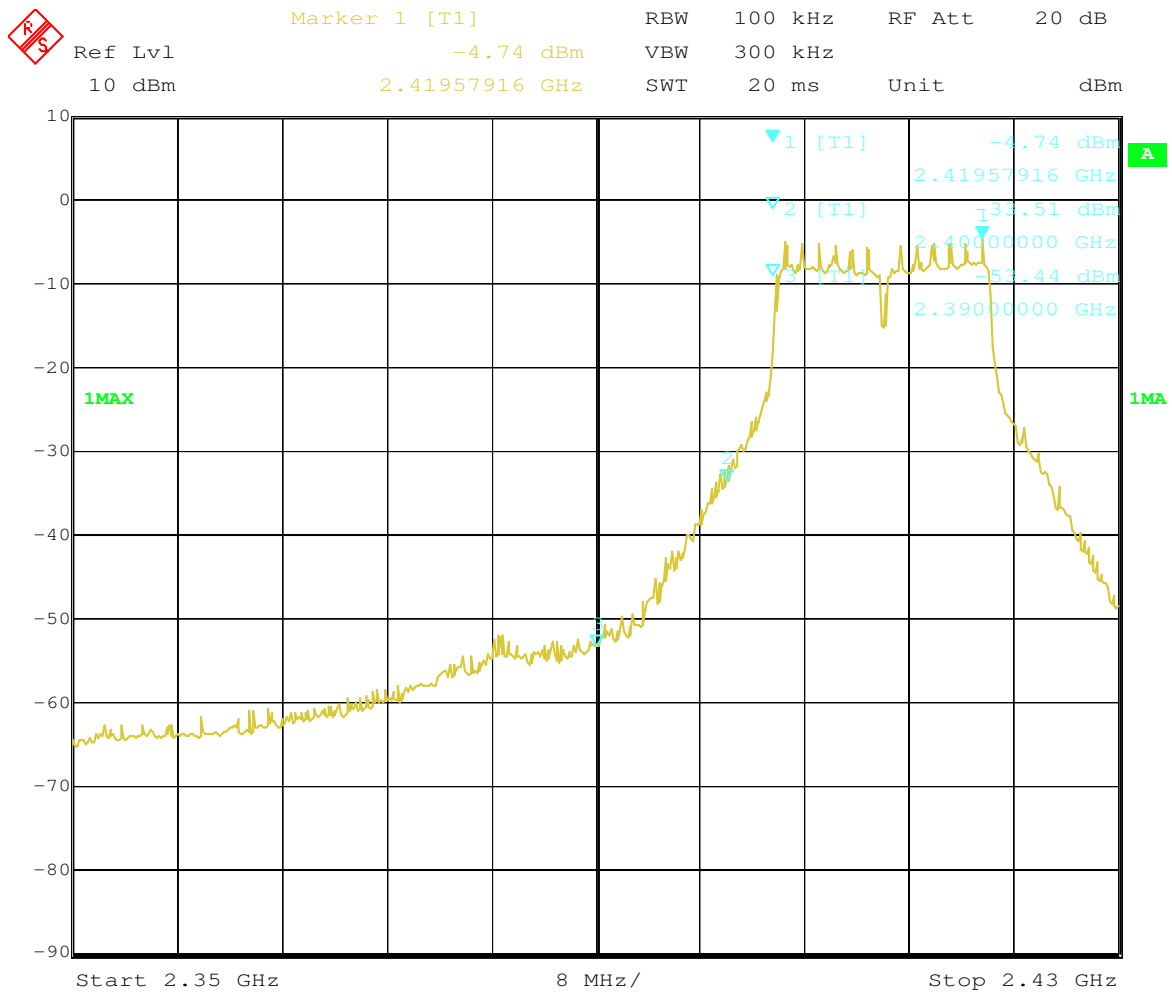
For 802.11g mode

CH01 at 6Mbps

10.4 Band-edge Measurement

EUT	Tablet PC	Model	F102
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.JUN.2016 16:03:40

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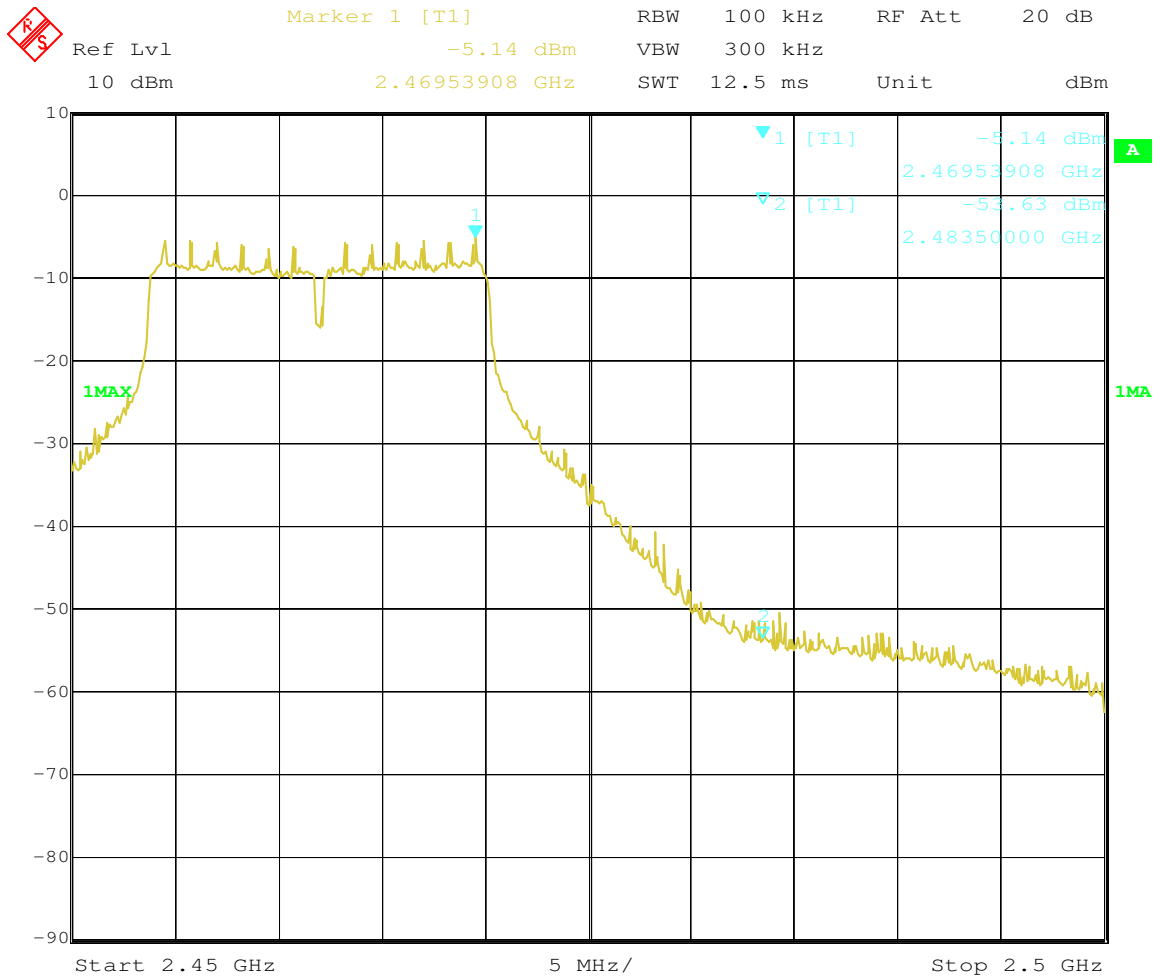


CH11 at 6Mbps

10.4 Band-edge Measurement

EUT	Tablet PC	Model	F102
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.JUN.2016 15:48:16

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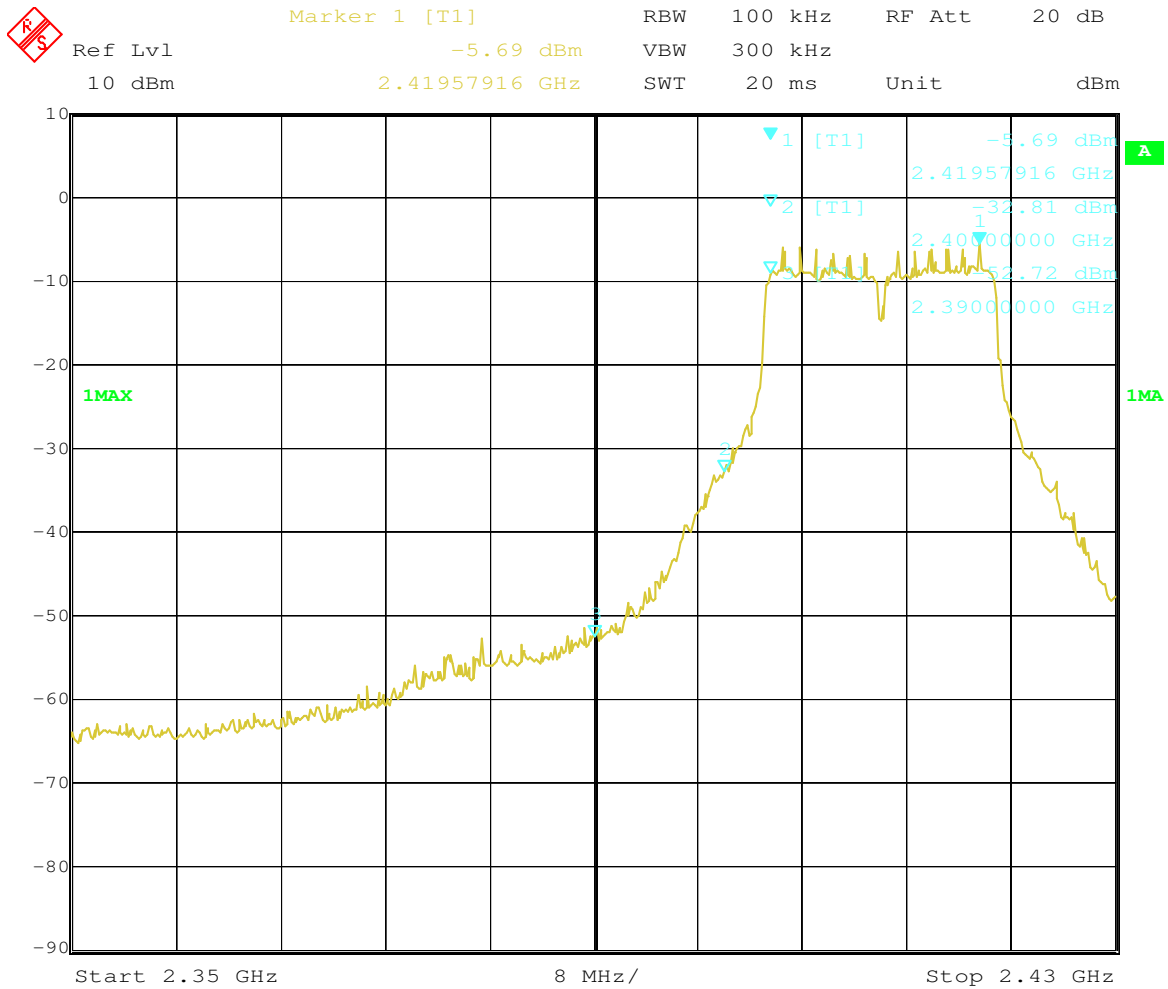
For 802.11n (HT20) mode

CH01 at 6.5Mbps

10.4 Band-edge Measurement

EUT	Tablet PC	Model	F102
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.JUN.2016 16:05:49

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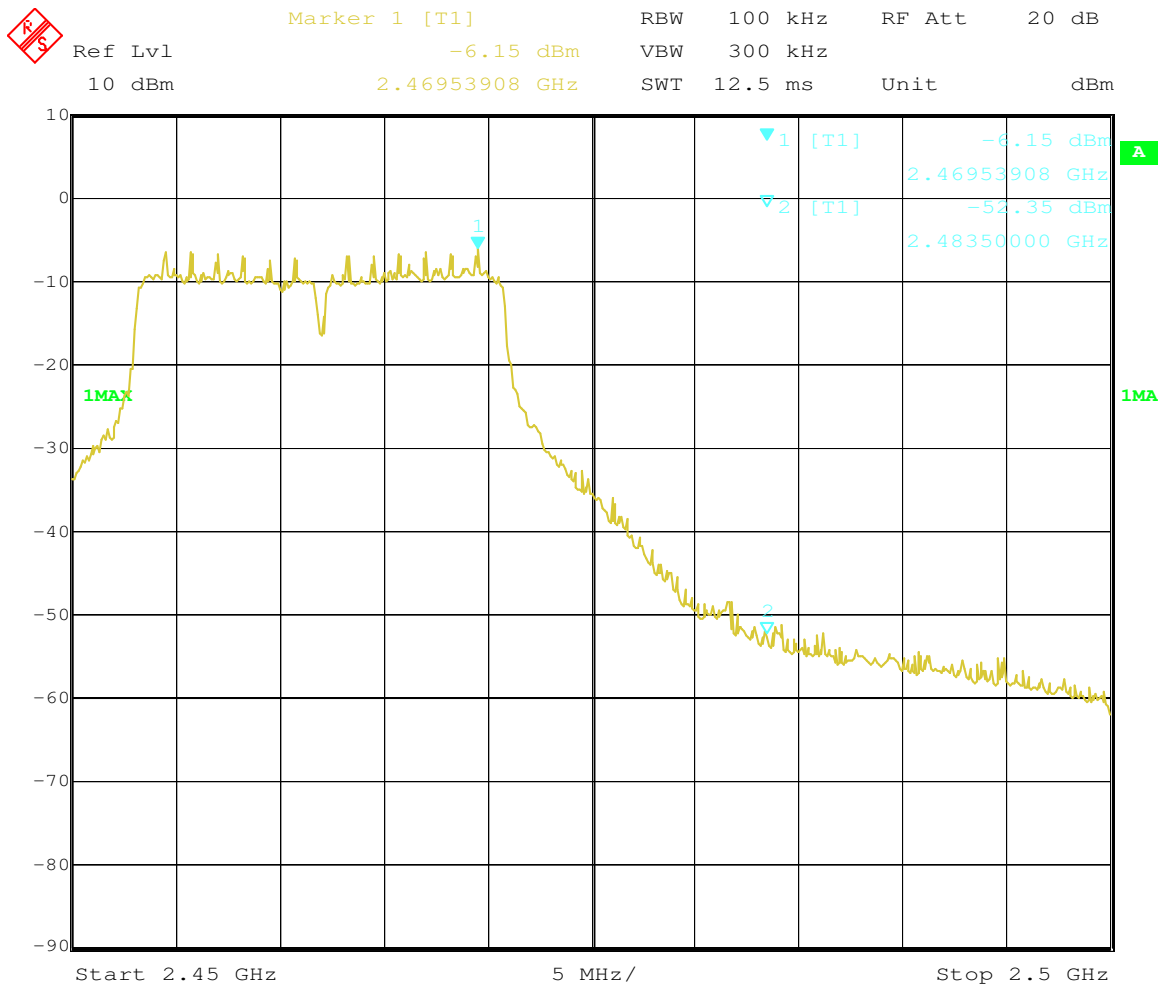


CH11 at 6.5Mbps

10.4 Band-edge Measurement

EUT	Tablet PC	Model	F102
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 27.JUN.2016 15:46:47

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10.4 Restricted band Measurement for 802.11b 11Mbps

Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)	Remark
2400	70.70	27.3	3.62	35.12	66.5	H	74	PK
2400	49.90	27.3	3.62	35.12	45.7	H	54	AV
2390	52.22	25.7	3.56	35.08	46.4	H	74	PK
2390	--	25.7	3.56	35.08	--	H	54	AV*
2400	69.40	27.3	3.62	35.12	65.2	V	74	PK
2400	49.30	27.3	3.62	35.12	45.1	V	54	AV
2390	51.12	25.7	3.56	35.08	45.3	V	74	PK
2390	--	25.7	3.56	35.08	--	V	54	AV*
2483.5	54.61	27.5	3.80	35.11	50.8	H	74	PK
2483.5	--	27.5	3.80	35.11	--	H	54	AV*
2483.5	53.51	27.5	3.80	35.11	49.7	V	74	PK
2483.5	--	27.5	3.80	35.11	--	V	54	AV*

* Note: The PK final measurement less than the AV limit. No necessary to record the AV emission level.

10.4 Restricted band Measurement for 802.11b 1Mbps

Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)	Remark
2400	71.20	27.3	3.62	35.12	67.0	H	74	PK
2400	50.40	27.3	3.62	35.12	46.2	H	54	AV
2390	58.02	25.7	3.56	35.08	52.2	H	74	PK
2390	39.42	25.7	3.56	35.08	33.6	H	54	AV
2400	70.30	27.3	3.62	35.12	66.1	V	74	PK
2400	49.50	27.3	3.62	35.12	45.3	V	54	AV
2390	57.42	25.7	3.56	35.08	51.6	V	74	PK
2390	39.02	25.7	3.56	35.08	33.2	V	54	AV
2483.5	55.51	27.5	3.80	35.11	51.7	H	74	PK
2483.5	35.81	27.5	3.80	35.11	32.0	H	54	AV
2483.5	54.71	27.5	3.80	35.11	50.9	V	74	PK
2483.5	35.01	27.5	3.80	35.11	31.2	V	54	AV

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10.4 Restricted band Measurement for 802.11g 6Mbps

Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)	Remark
2400	73.60	27.3	3.62	35.12	69.4	H	74	PK
2400	52.70	27.3	3.62	35.12	48.5	H	54	AV
2390	56.62	25.7	3.56	35.08	50.8	H	74	PK
2390	37.32	25.7	3.56	35.08	31.5	H	54	AV
2400	73.00	27.3	3.62	35.12	68.8	V	74	PK
2400	51.80	27.3	3.62	35.12	47.6	V	54	AV
2390	56.12	25.7	3.56	35.08	50.3	V	74	PK
2390	37.02	25.7	3.56	35.08	31.2	V	54	AV
2483.5	54.51	27.5	3.80	35.11	50.7	H	74	PK
2483.5	35.01	27.5	3.80	35.11	31.2	H	54	AV
2483.5	53.91	27.5	3.80	35.11	50.1	V	74	PK
2483.5	34.41	27.5	3.80	35.11	30.6	V	54	AV

10.4 Restricted band Measurement for 802.1n 6.5Mbps

Frequency (MHz)	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pre-amp (dB)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)	Remark
2400	73.90	27.3	3.62	35.12	69.7	H	74	PK
2400	54.30	27.3	3.62	35.12	50.1	H	54	AV
2390	58.92	25.7	3.56	35.08	53.1	H	74	PK
2390	40.12	25.7	3.56	35.08	34.3	H	54	AV
2400	73.20	27.3	3.62	35.12	69.0	V	74	PK
2400	53.50	27.3	3.62	35.12	49.3	V	54	AV
2390	58.12	25.7	3.56	35.08	52.3	V	74	PK
2390	39.62	25.7	3.56	35.08	33.8	V	54	AV
2483.5	55.51	27.5	3.80	35.11	51.7	H	74	PK
2483.5	36.61	27.5	3.80	35.11	32.8	H	54	AV
2483.5	55.31	27.5	3.80	35.11	51.5	V	74	PK
2483.5	36.41	27.5	3.80	35.11	32.6	V	54	AV

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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 maximum Gain of the antennas is 2.0dBi.

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12.0 FCC ID Label

FCC ID: RBD-F102

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:



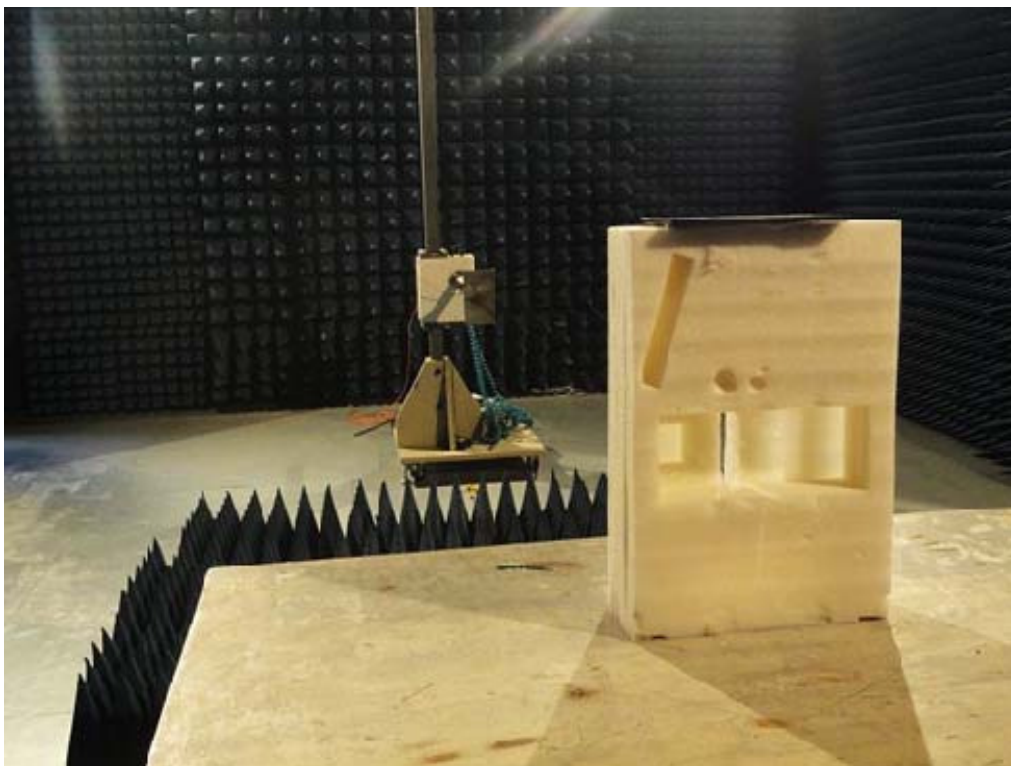
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Radiated Emission Test Setup:



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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

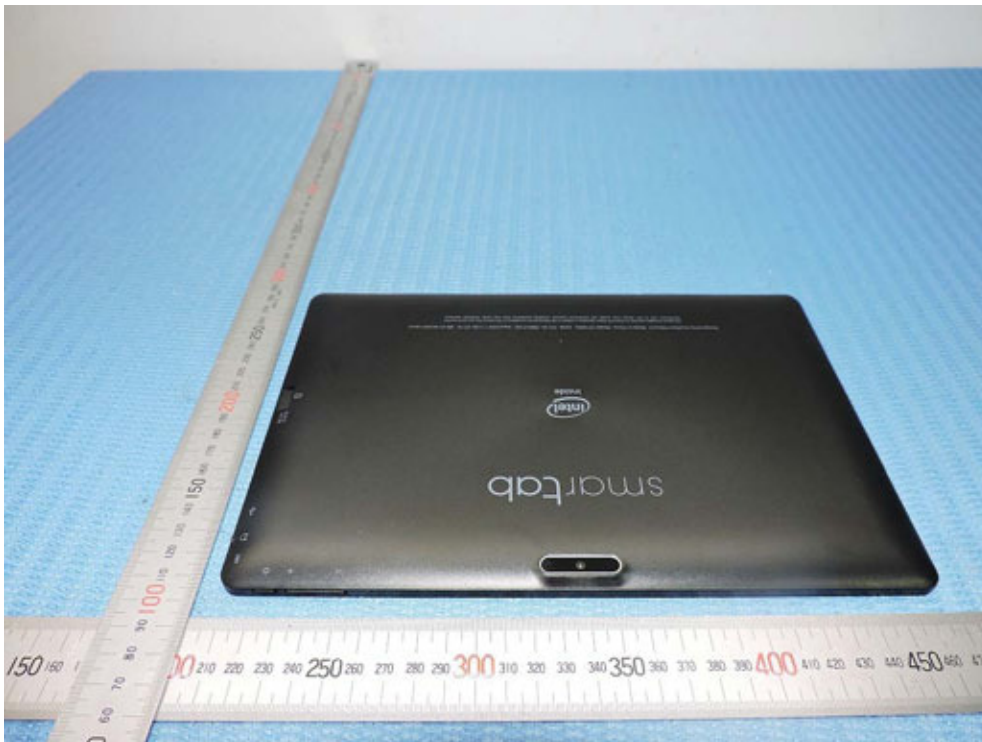


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Outside view



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Outside view

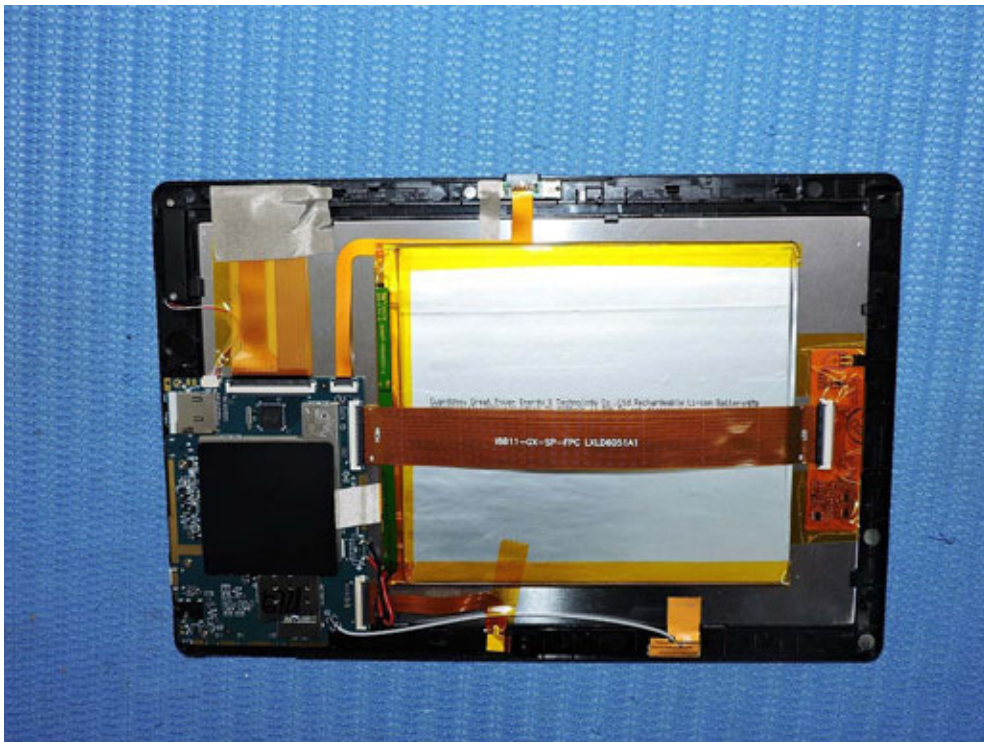


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Inside view

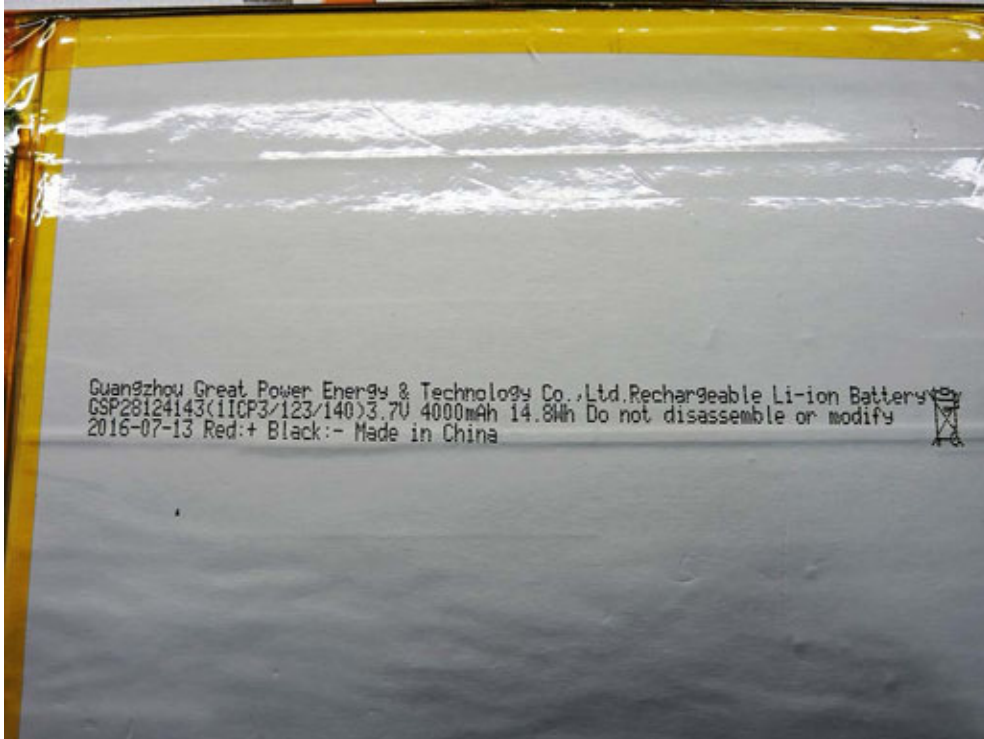


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Inside view

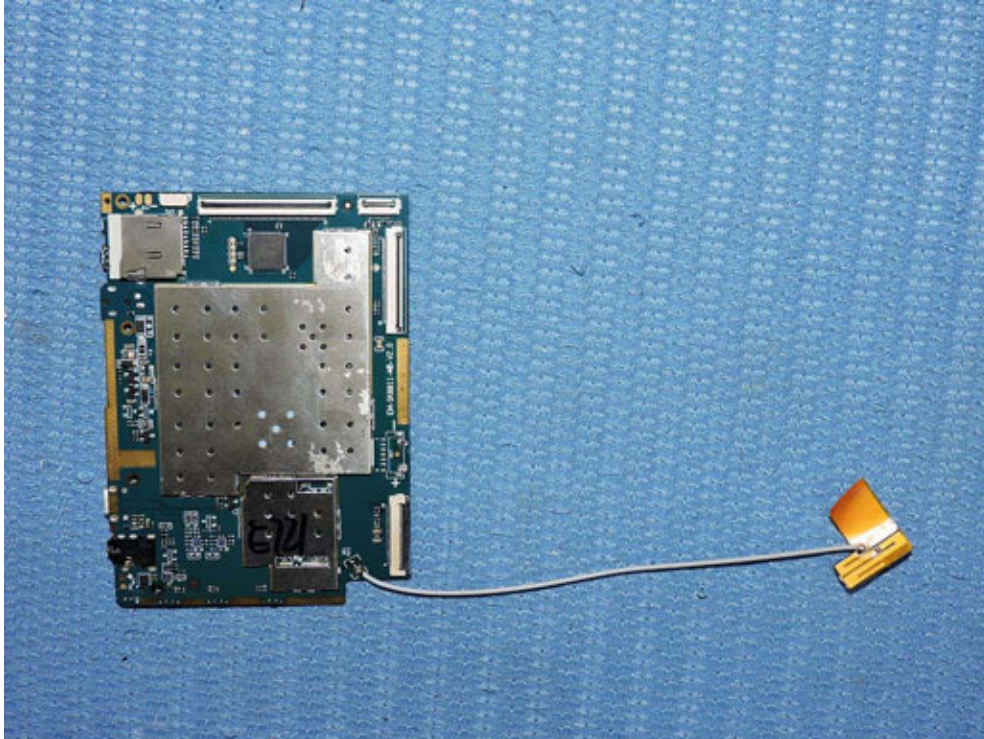


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Inside view

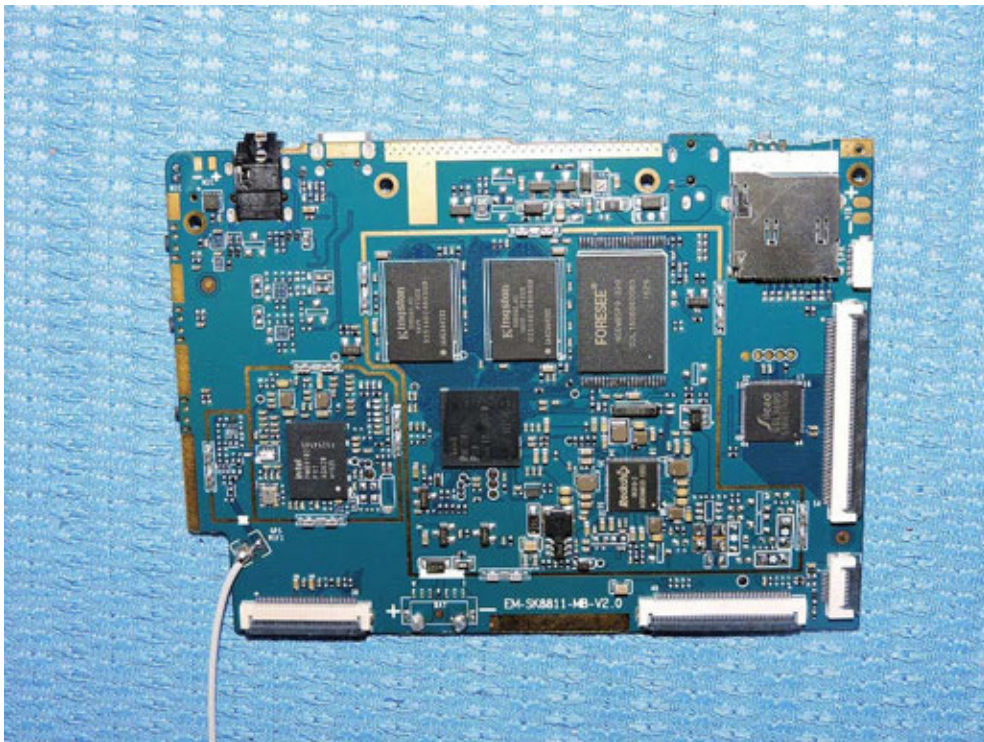
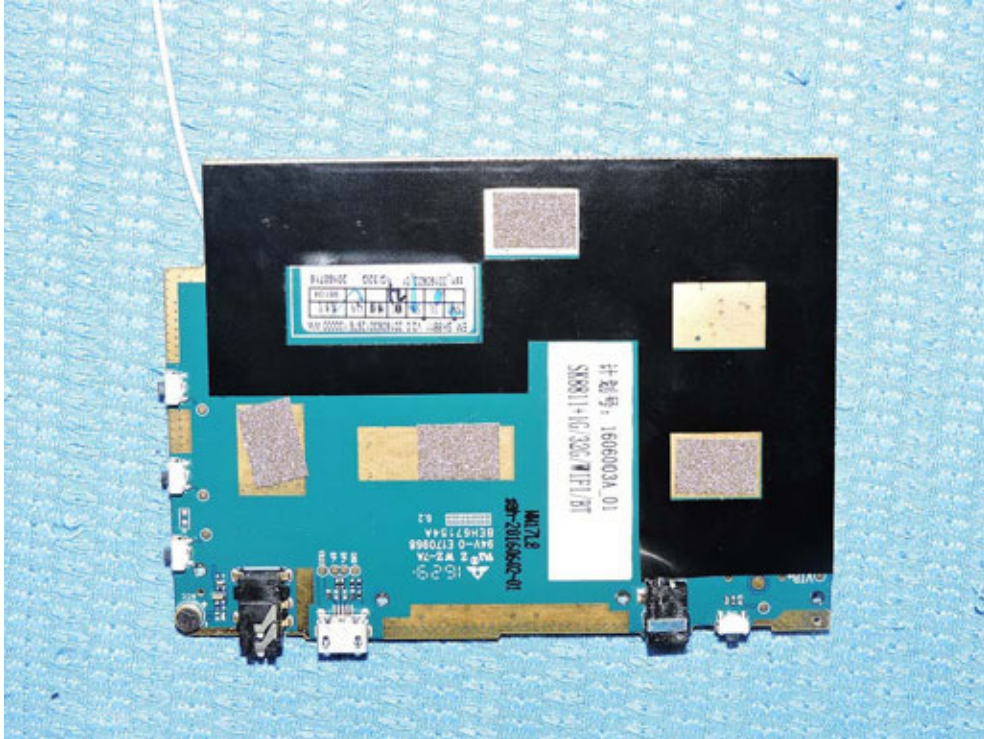


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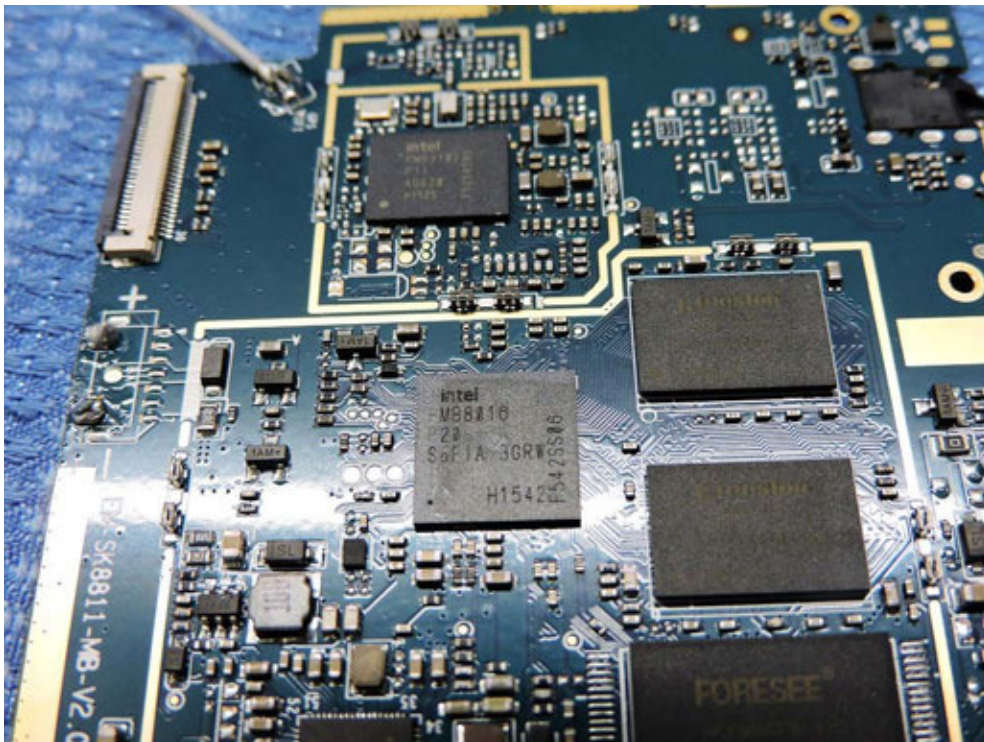
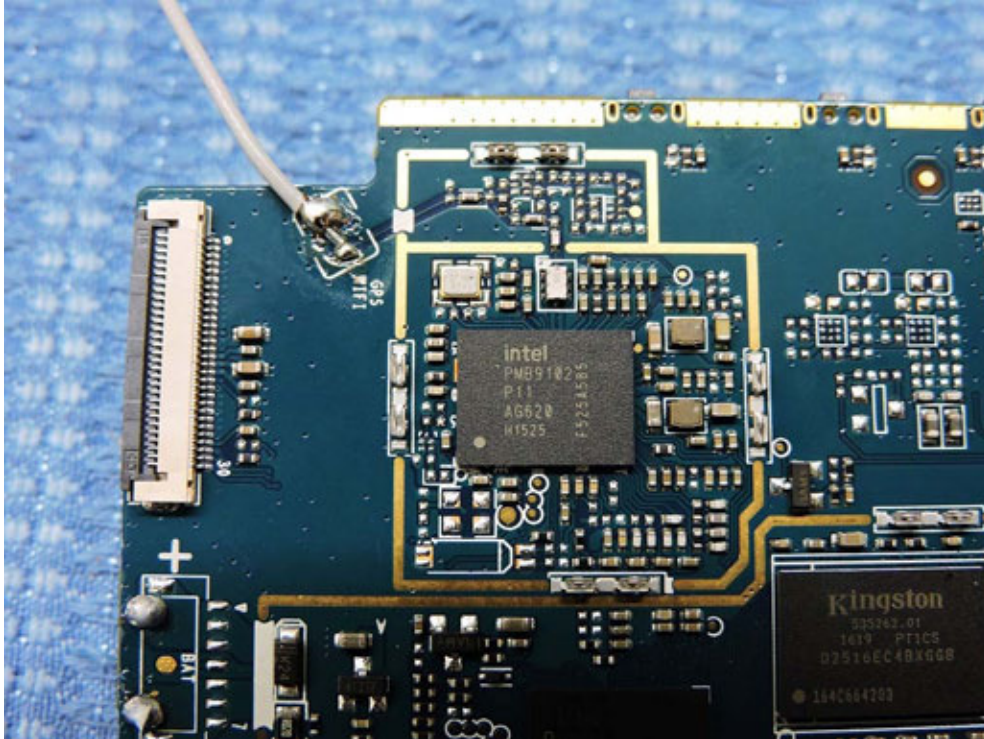
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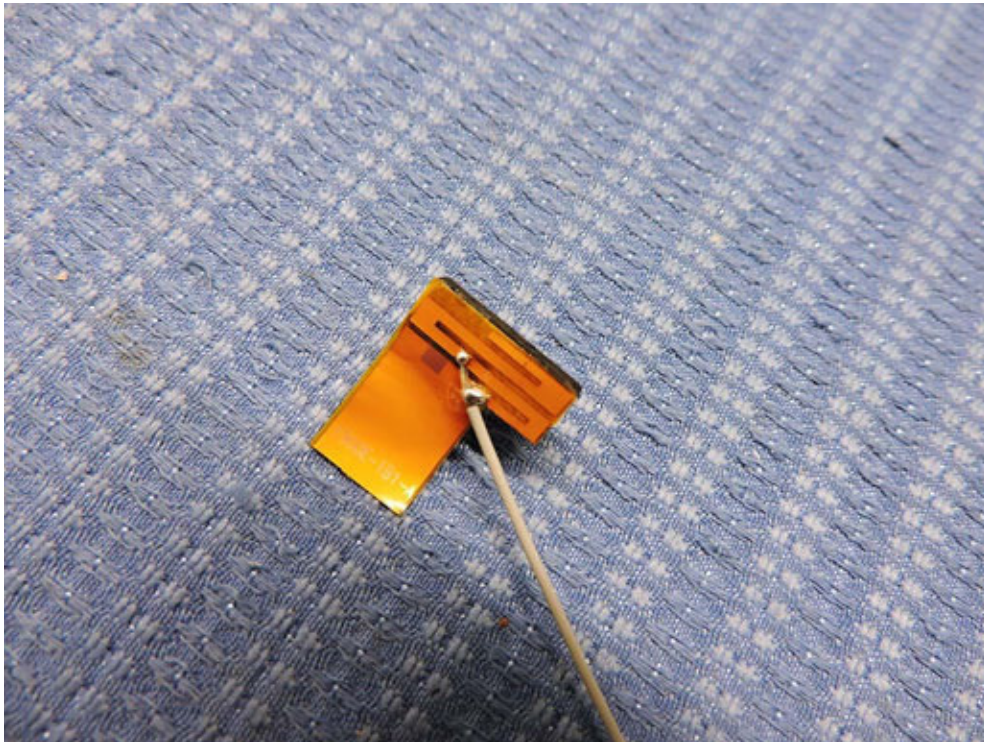
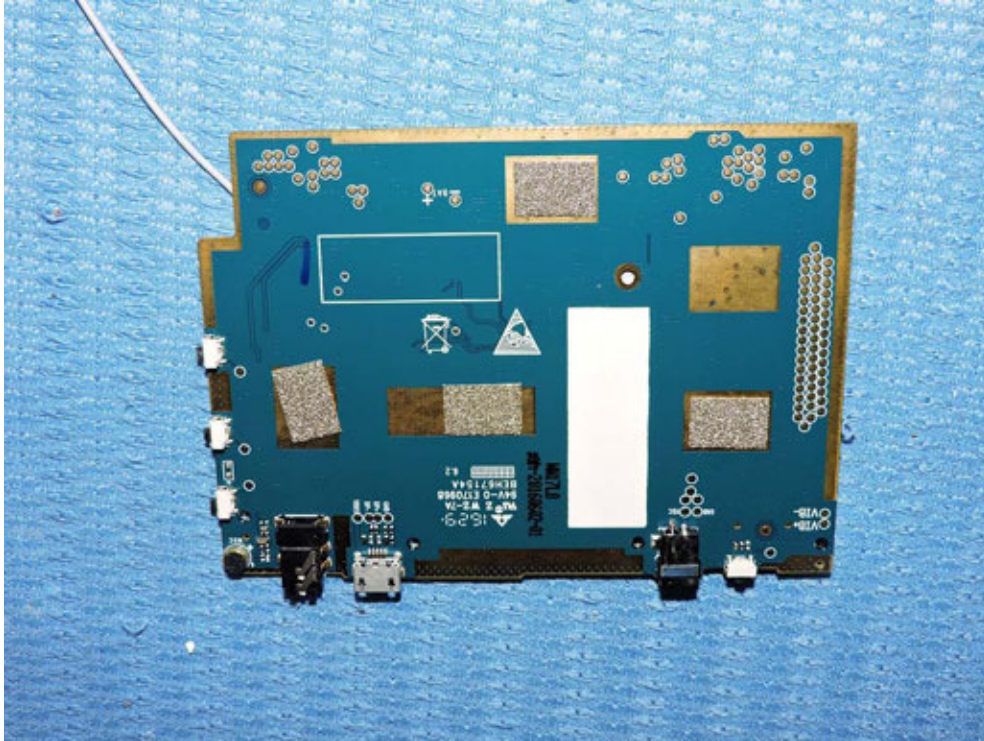
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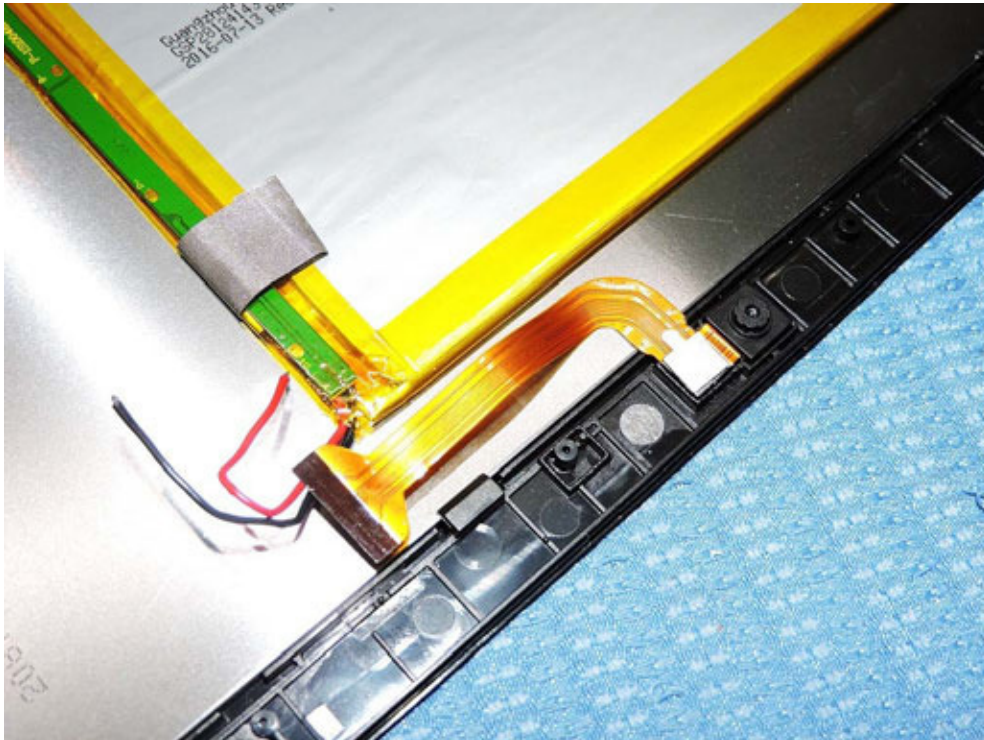
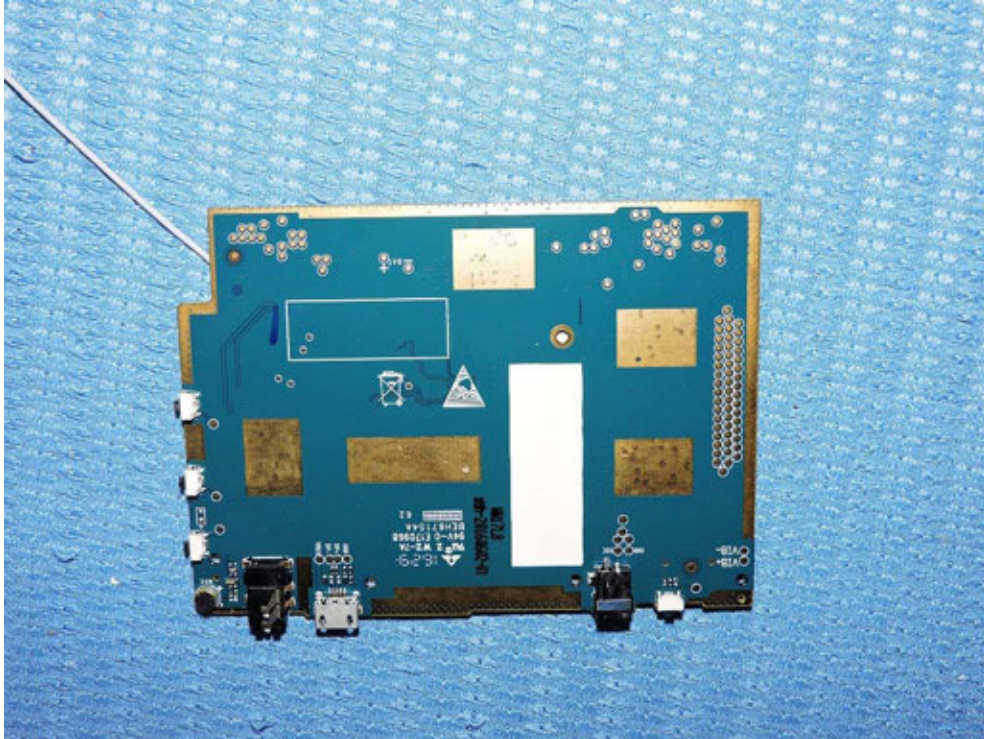


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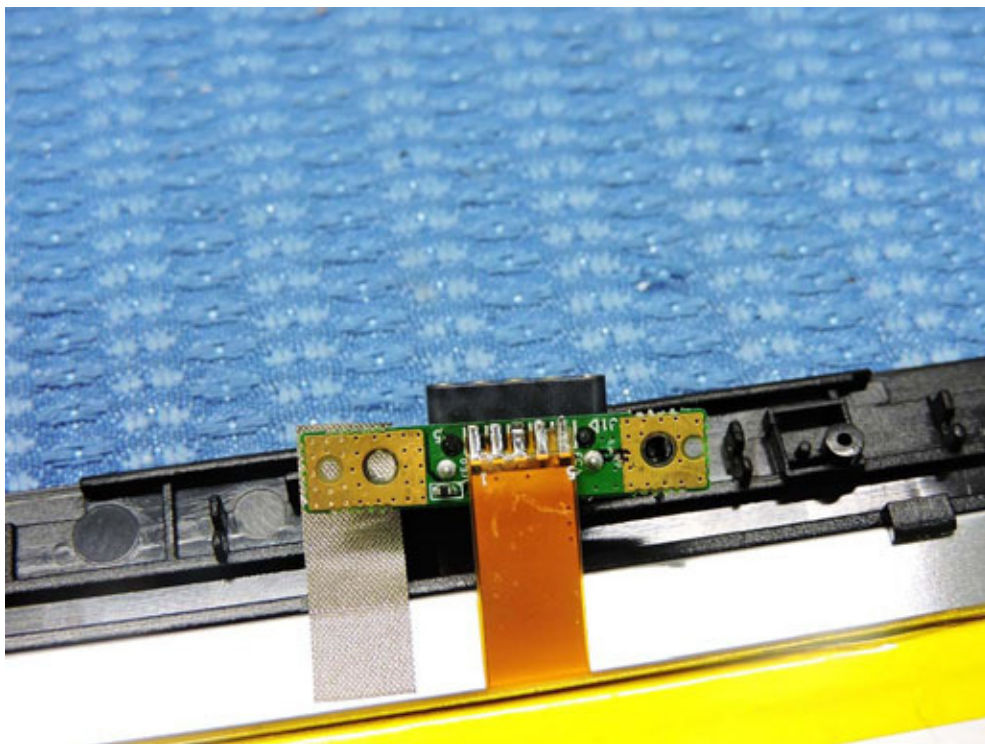
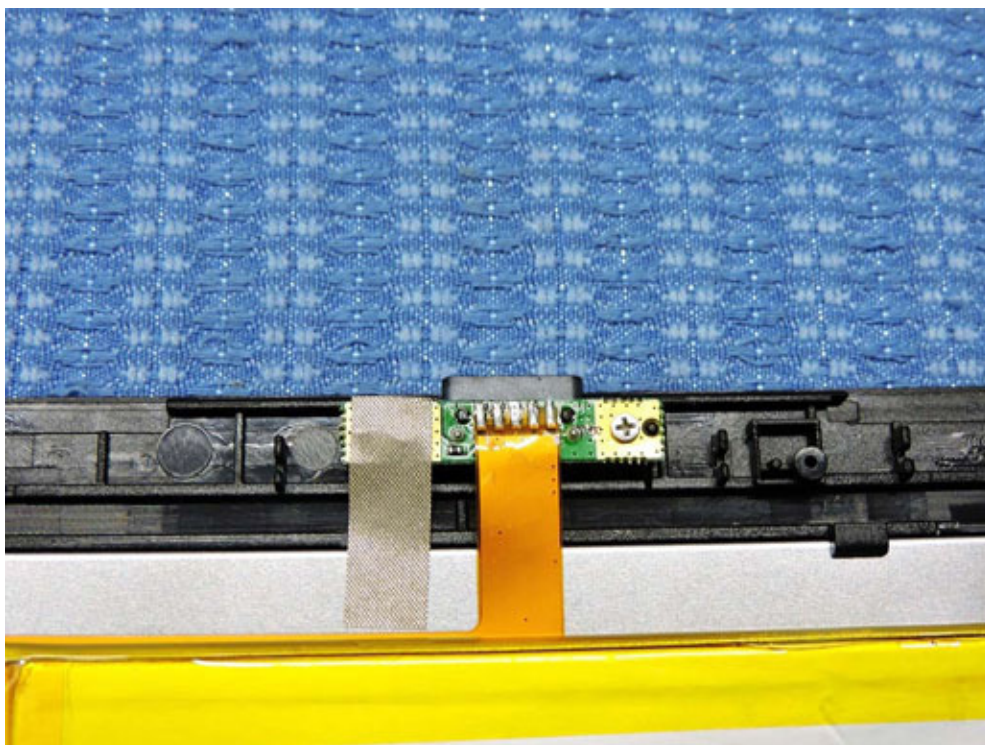


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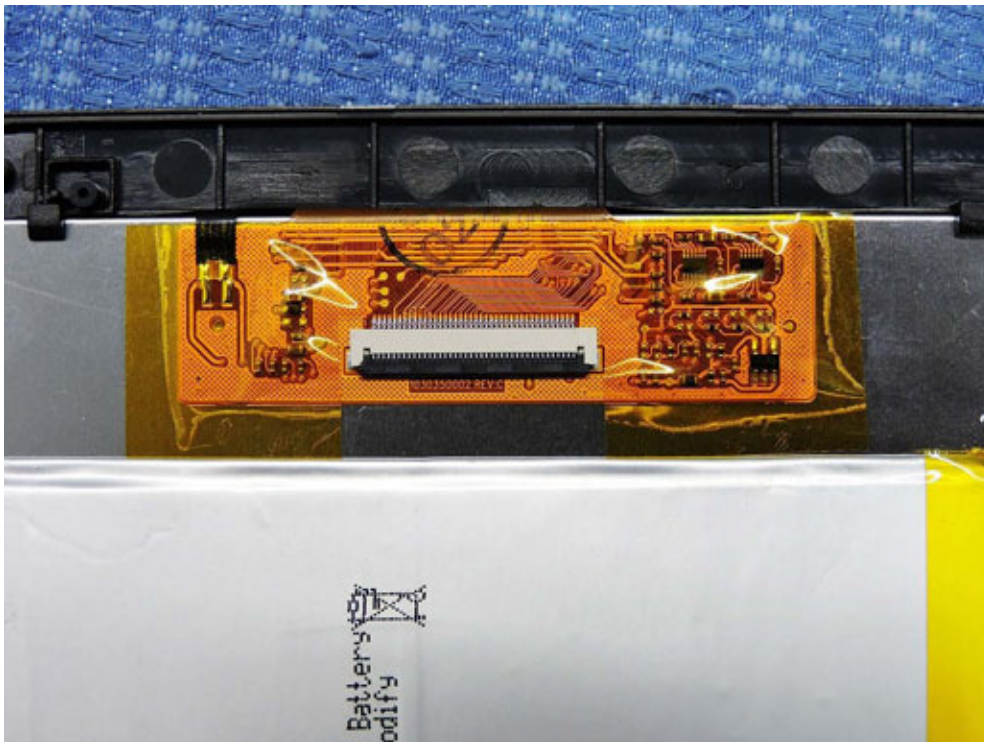
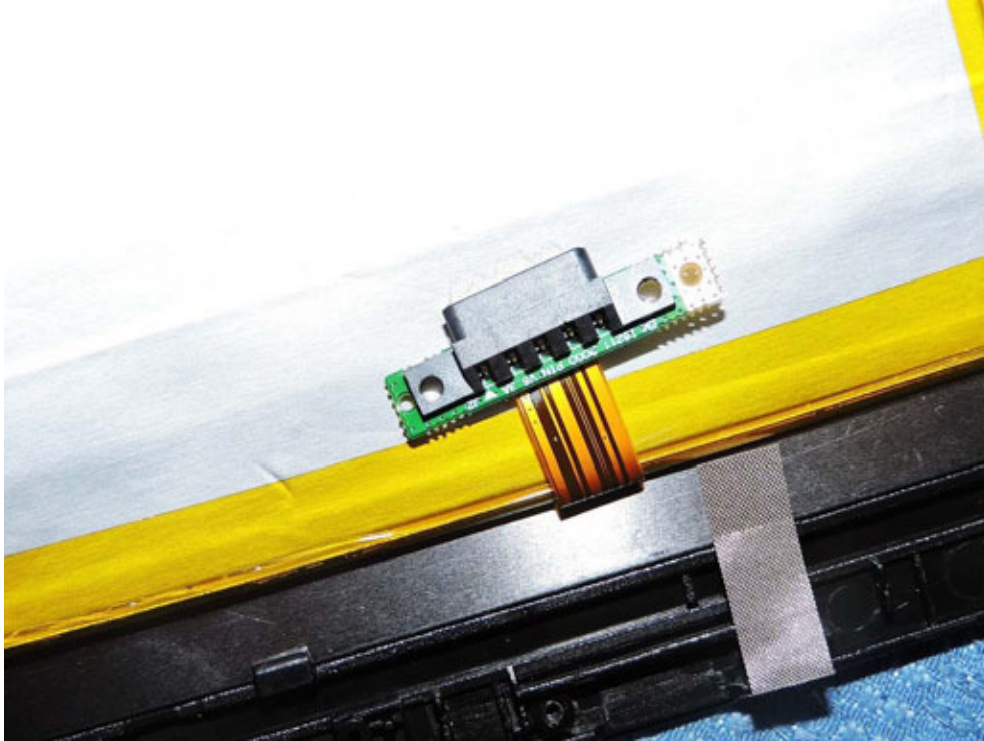


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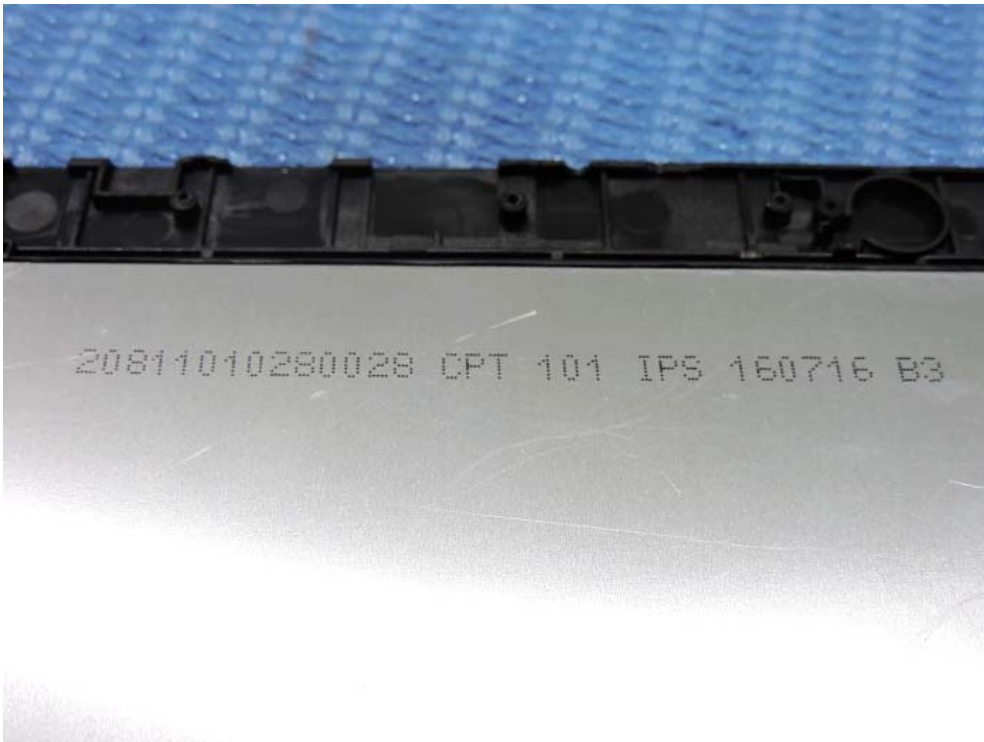
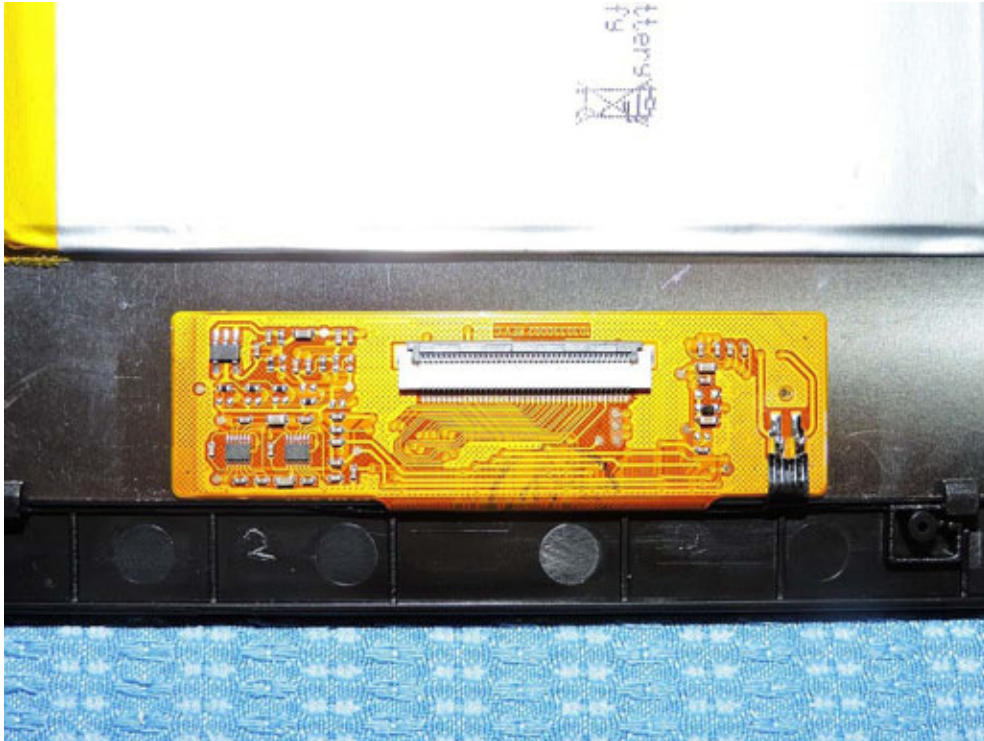
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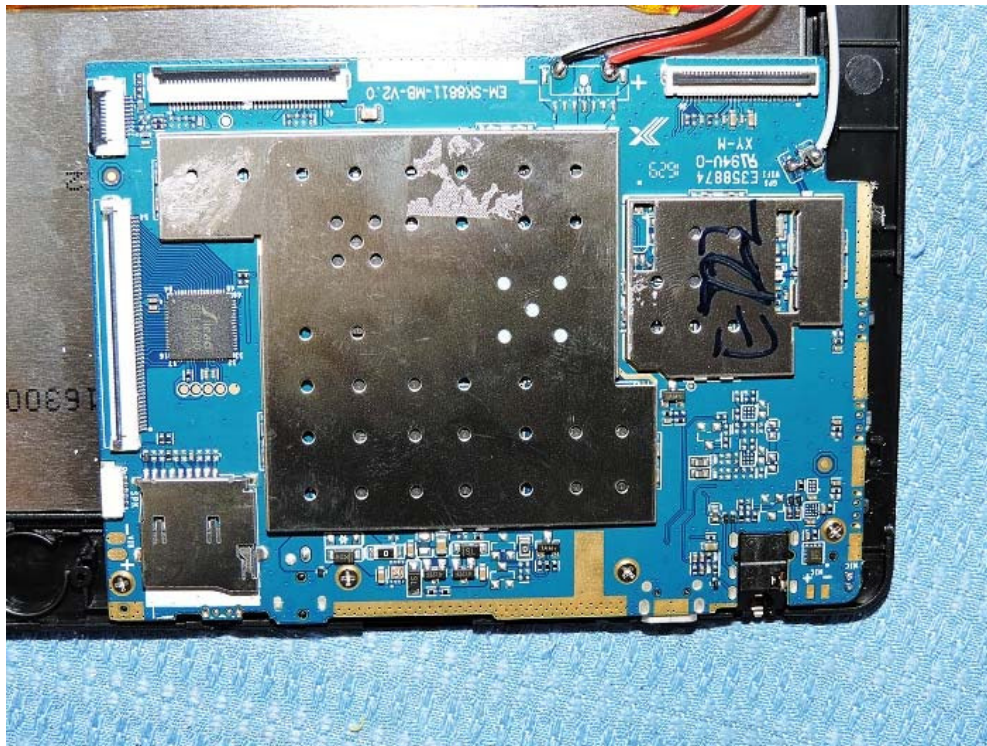
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Inside view-Configure b)



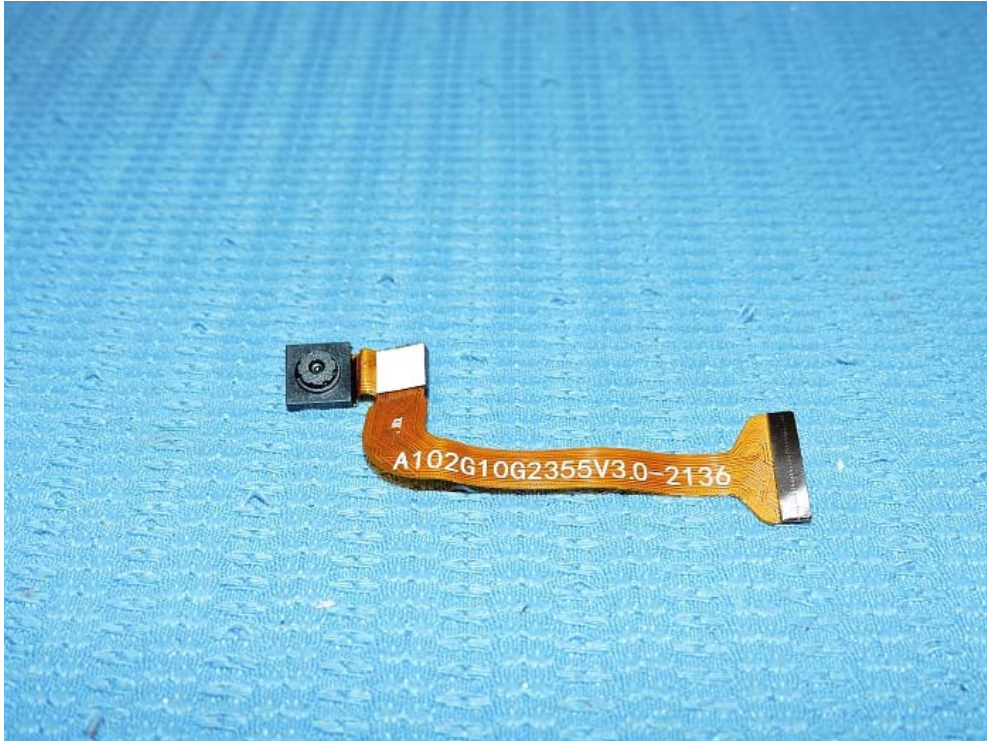
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Inside view- Configure b)



End of the report

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