



ISO/IEC17025 Accredited Lab.

Report No:
File reference No:

FCC 1305087
2013-05-30

Applicant: TENVIS Technology Co., Ltd.

Product: IP Camera

Trademark: TENVIS

Model No: JPT3815W, IPROBOT2, JPT3815W+, MINI319W,
MINI319W+, 1P601W, 02W, IP391W, MINIROBOT2,
IP602W, JPT3816W, JPT3818W, JPT3819W

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

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

Approved By

Jack Chung

Jack Chung
Manager

Dated: May 30, 2013

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 TECHNOLOGY CONSULTING CO., LTD

5/F, Block 4, Anhua Industrial Zone., No.8 TaiRan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688

Fax (755) 83442996



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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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD
Address: 5/F,Block 4, Anhua Industrial Zone., No.8 TaiRan Rd. CheGongMiao, FuTian District, Shenzhen, 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: TENVIS Technology Co., Ltd.
Address: 301, Building 6, No.3, Puxiaxia'an Street, Liuyue, Henggang Town, Longgang District, Shenzhen
Telephone: 13632915766
Fax: 0755-29451488

1.3 Description of EUT

Product:	IP Camera
Manufacturer:	TENVIS Technology Co., Ltd.
Address:	301, Building 6, No.3, Puxiaxia'an Street, Liuyue, Henggang Town, Longgang District, Shenzhen
Brand Name:	TENVIS
Model Number:	JPT3815W
Additional Model Number:	IPROBOT 2, JPT3815W+, MINI319W, MINI319W+,IP601W, 02W, IP391W, MINIROBOT 2, IP602W, JPT3816W, JPT3818W, JPT3819W
Power Adapter	Model: RHD10W050150 Input: AC100-240V, 50/60Hz, 1.5A; Output: DC5V, 1500mA
Type of Modulation	IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g : OFDM (64QAM, 16AQM, QPSK, BPSK) IEEE 802.11n HT20 : OFDM (64QAM, 16QAM, QPSK, BPSK)
Frequency range	EEE 802.11b/g, 802.11n HT20: 2412-2462MHz
Channel Spacing	IEEE 802.11b/g/n: 5MHz
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, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6.5 Mbps

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Channel Number IEEE 802.11b/g , 802.11n HT20 : 11 Channels

Antenna: Dipole Antenna with maximum gain 2 dBi

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2013-04-16 to 2013-05-30

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

Terry Tang

The sample tested by _____

Print Name: Terry Tang

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2.0	Test Equipments				
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2012-08-21	2013-08-20
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2012-08-21	2013-08-20
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2012-08-21	2013-08-20
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2012-08-21	2013-08-20
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2012-08-21	2013-08-20
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2012-08-21	2013-08-20
System Controller	CT	SC100	-	2012-08-21	2013-08-20
Printer	EPSON	PHOTO EX3	CFNH234850	2012-08-21	2013-08-20
Computer	IBM	8434	1S8434KCE99BLXL O*	-	-
Loop Antenna	EMCO	6502	00042960	2012-08-21	2013-08-20
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2012-08-21	2013-08-20
3m OATS	--	--	N/A	2012-08-21	2013-08-20
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2012-08-21	2013-08-20
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2012-08-21	2013-08-20
Power meter	Anritsu	ML2487A	6K00003613	2012-08-21	2013-08-20
Power sensor	Anritsu	MA2491A	32263	2012-08-21	2013-08-20
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2012-08-21	2013-08-20
LISN	AFJ	LS16C	10010947251	2012-08-21	2013-08-20
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2012-08-21	2013-08-20
9*6*6 Anechoic	--	--	N/A	2012-08-21	2013-08-20
EMI Test Receiver	RS	ESCS30	100139	2012-08-21	2013-08-20

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2.1 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--

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3. DESCRIPTION OF TEST MODES

IEEE 802.11b, 802.11g mode and 802.11n HT20

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

Channel	Frequency (MHz)
Low	2412
Mid	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) was chosen for full testing.

The worst-case data rates are determined according to the description above, based on the investigations by measuring the PSD and average power across all the data rates, bandwidths, modulations and spatial stream modes.

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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 15.203	Antenna requirements	PASS	Compliant
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 Technology Consulting Co., Ltd

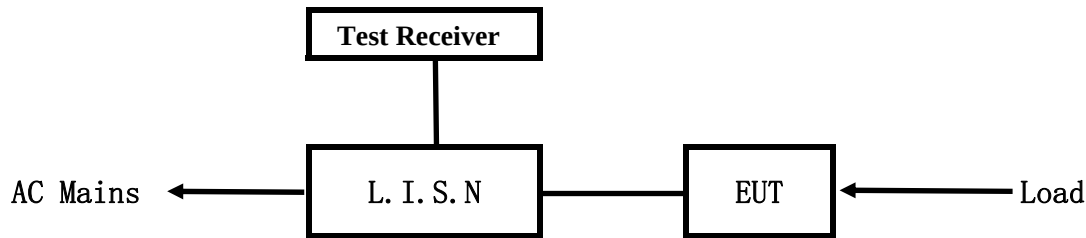
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5. Power Line Conducted Emission Test

5.1 Schematics of the test



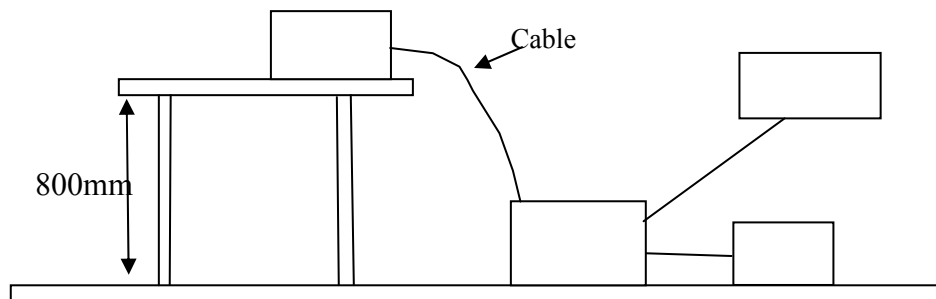
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2009. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2009.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2009. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
IP Camera	TENVIS Technology Co., Ltd.	JPT3815W, IPROBOT 2, JPT3815W+, MINI319W, MINI319W+, 1P601W, 02W, IP391W, MINIROBOT 2, IP602W, JPT3816W, JPT3818W, JPT3819W	N6QMJCAMERA

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10 -2009.

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.

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

EUT Operating Environment

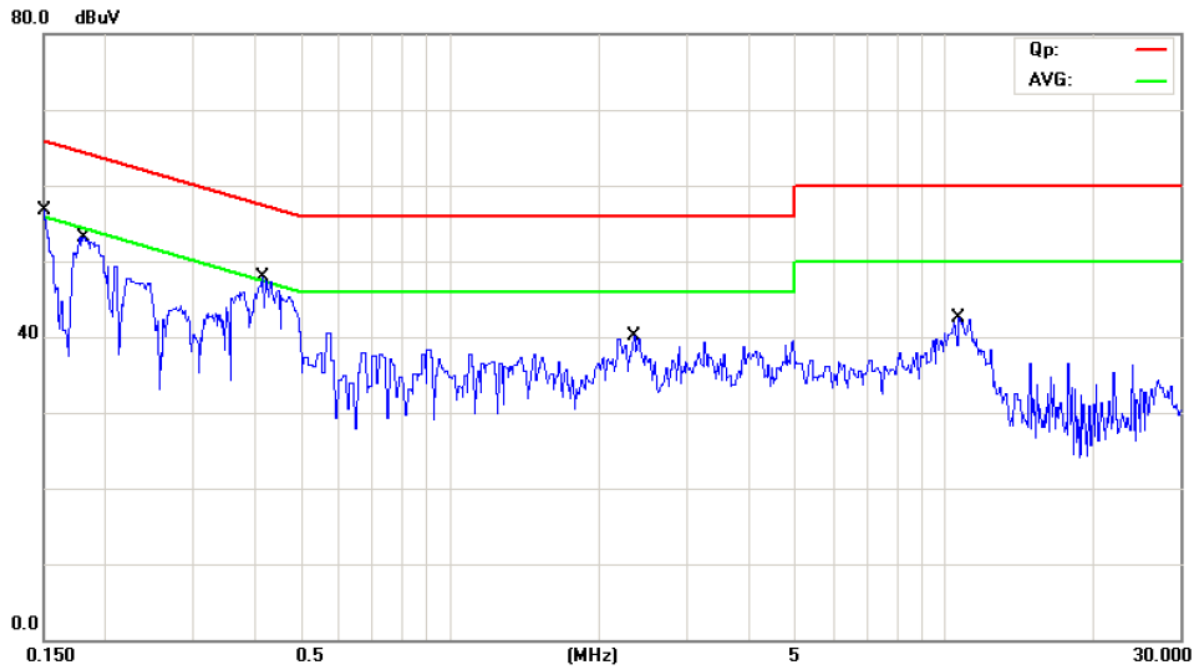
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBμV)		Limit(dBμV)	
		Quasi-peak	Average	Quasi-peak	Average
0.414	Live	43.28	21.28	57.56	47.56
0.178	Live	40.73	1.63	64.57	54.57
0.150	Live	56.69	15.49	66.00	56.00
2.356	Live	34.01	15.01	56.00	46.00
10.687	Live	34.54	12.54	60.00	50.00

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

EUT Operating Environment

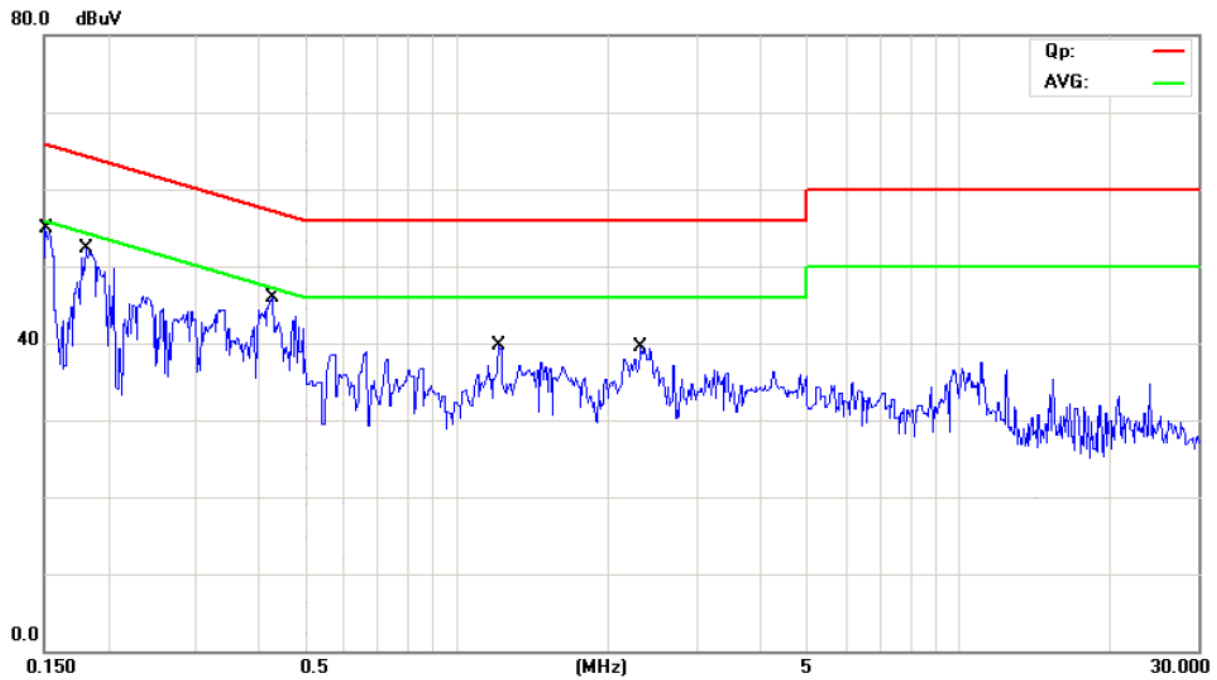
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBμV)		Limit(dBμV)	
		Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	54.83	30.53	65.96	55.96
0.182	Neutral	52.30	31.40	64.38	54.38
0.426	Neutral	41.91	22.61	57.32	47.32
2.311	Neutral	39.42	21.42	56.00	46.00
1.220	Neutral	39.77	19.77	56.00	46.00

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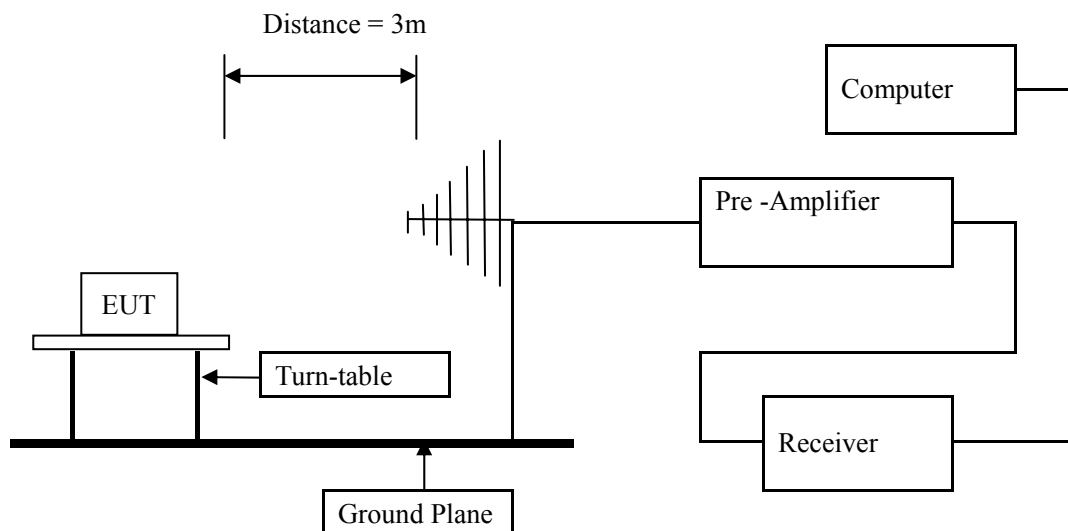
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6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2009. 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 C63.10-2009.
- (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=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup



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

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

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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

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
44.600	35.31	H	40.00
117.120	33.80	H	43.50
445.520	44.38	H	46.00
509.160	38.18	H	46.00
31.160	38.07	V	40.00
50.960	37.57	V	40.00
117.880	33.52	V	43.50

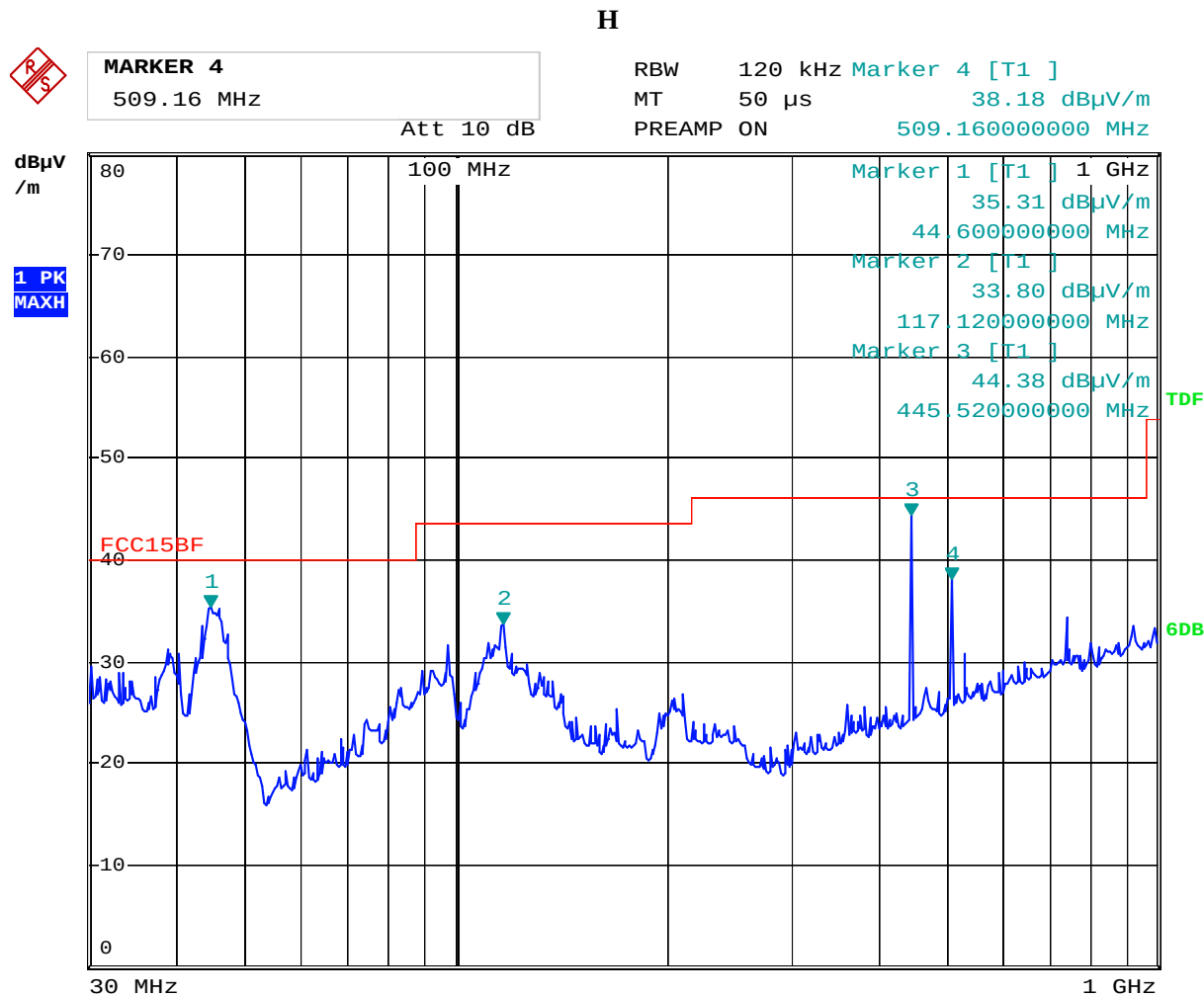
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Test Figure:

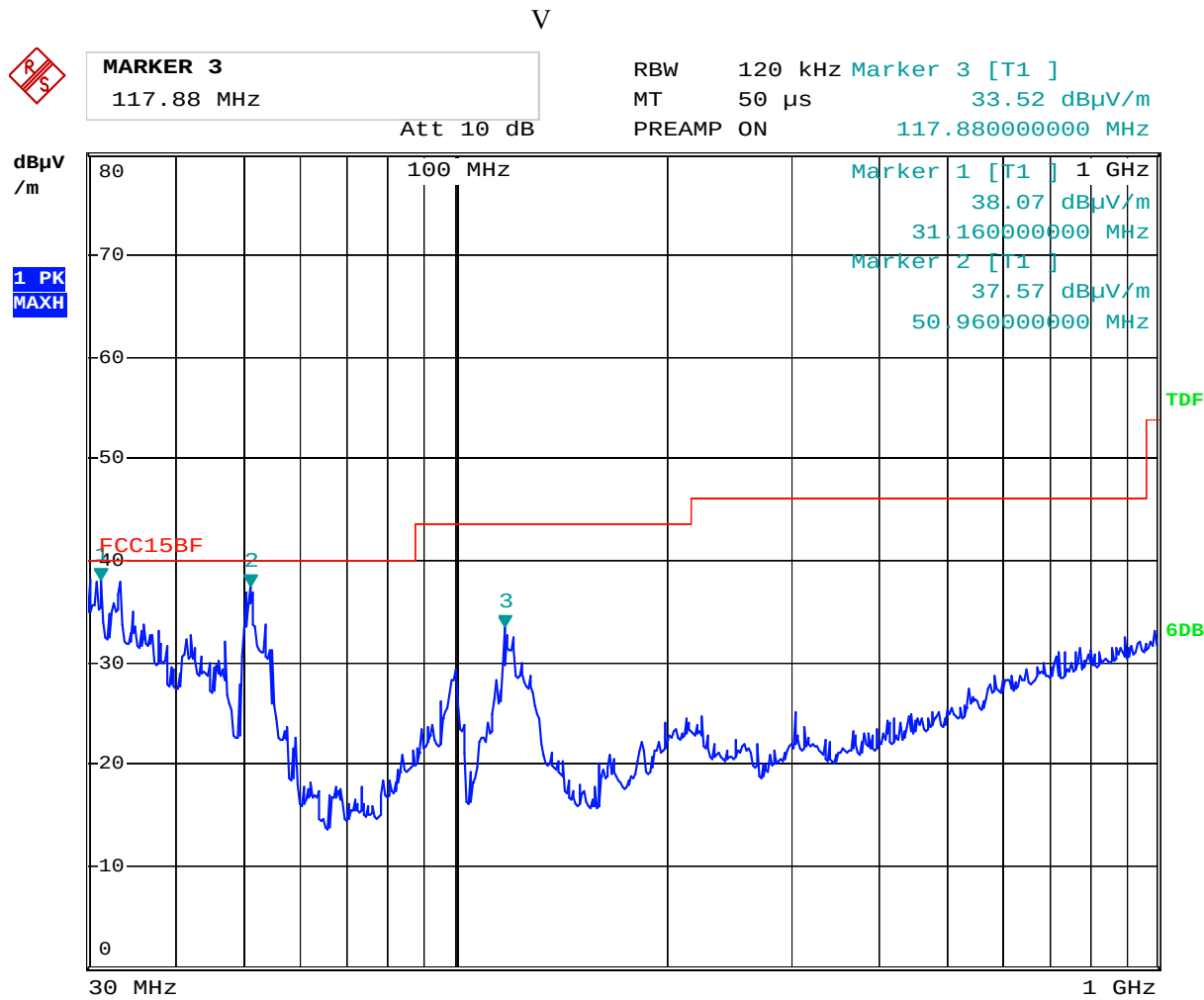


Date: 9.MAY.2013 18:55:04

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Test Figure:



Date: 9.MAY.2013 18:46:56

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

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2412.00	100.28 (PK)	H	Fundamental Frequency
2412.00	104.76 (PK)	V	
4824.00	--	H	--
4824.00	--	V	
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 + Filter - Dist, Margin = Level - Limit
 2. Remark "---" means that the emissions level is too low to be measured
 3. For 802.11b mode at 1Mbps and it is the worse case.



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

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	102.13 (PK)	H	Fundamental Frequency
2437.00	101.65 (PK)	V	
4874.00	--	H	--
4874.00	--	V	
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 + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11b mode at 1Mbps and it is the worse case.

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

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2462.00	99.85 (PK)	H	Fundamental Frequency
2462.00	102.17 (PK)	V	
4924	--	H	--
4924	--	V	
7386	--	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 + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11b mode at 1Mbps and it is the worse case.

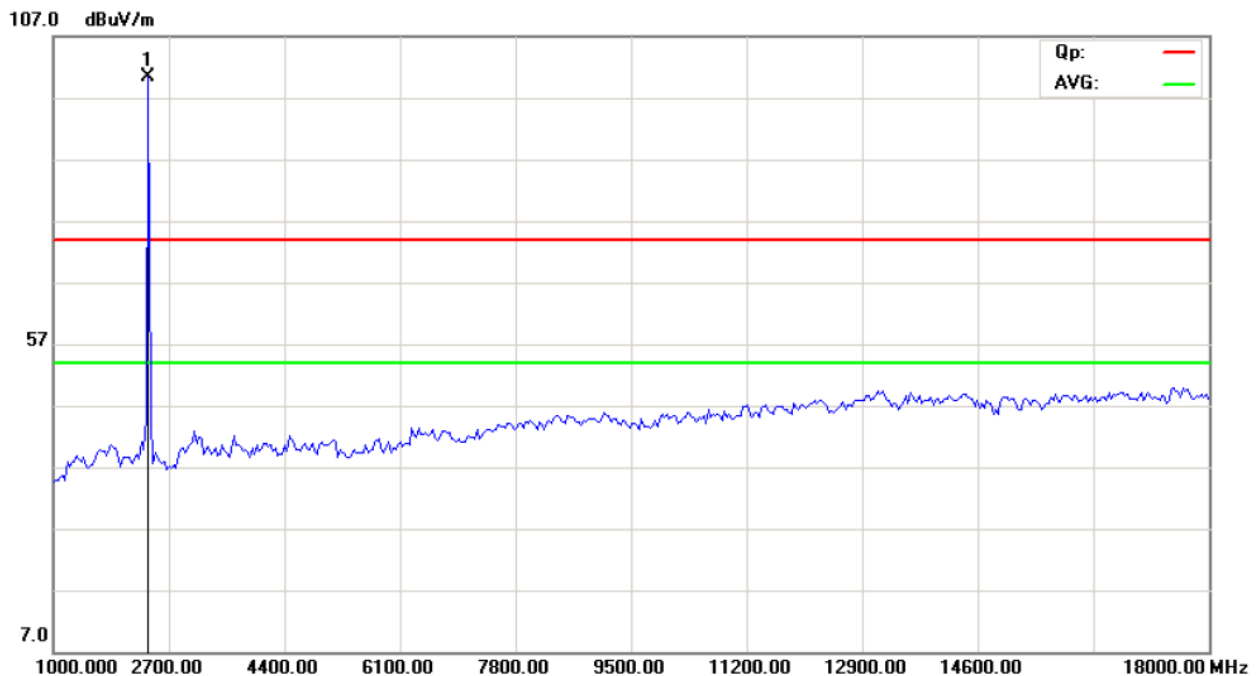
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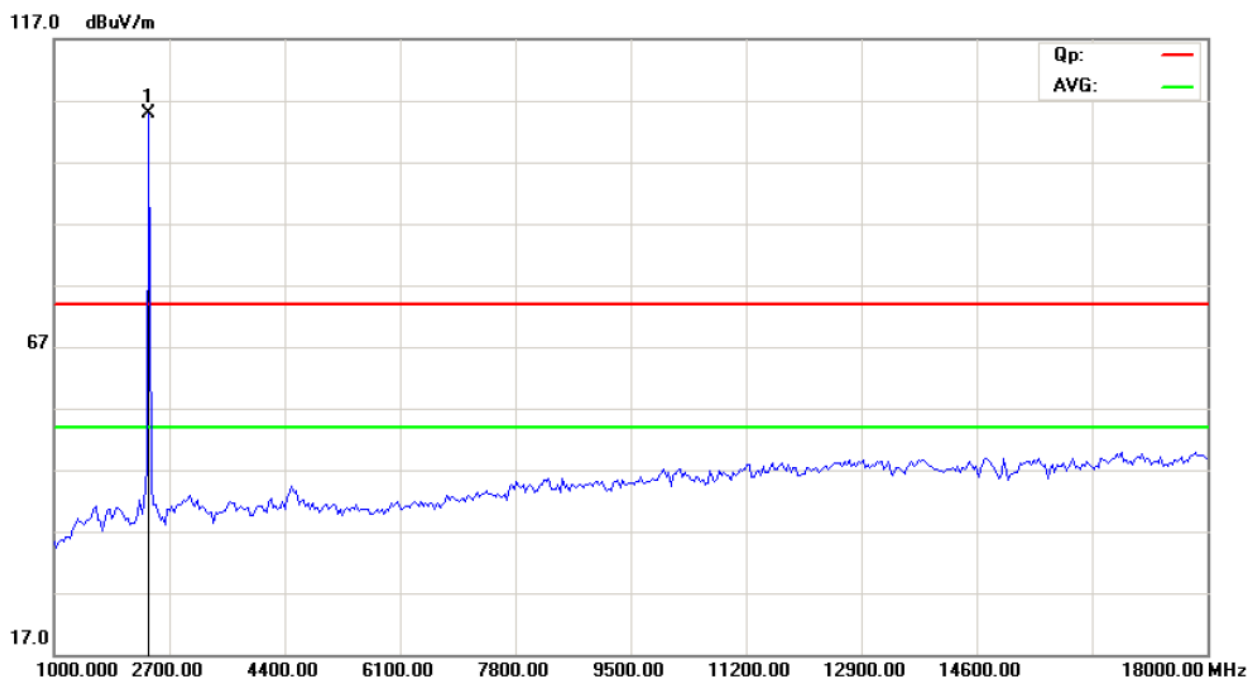
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Please refer to the following test plots for details:

CH01 at 1Mbps: Horizontal



CH01 at 1Mbps: Vertical

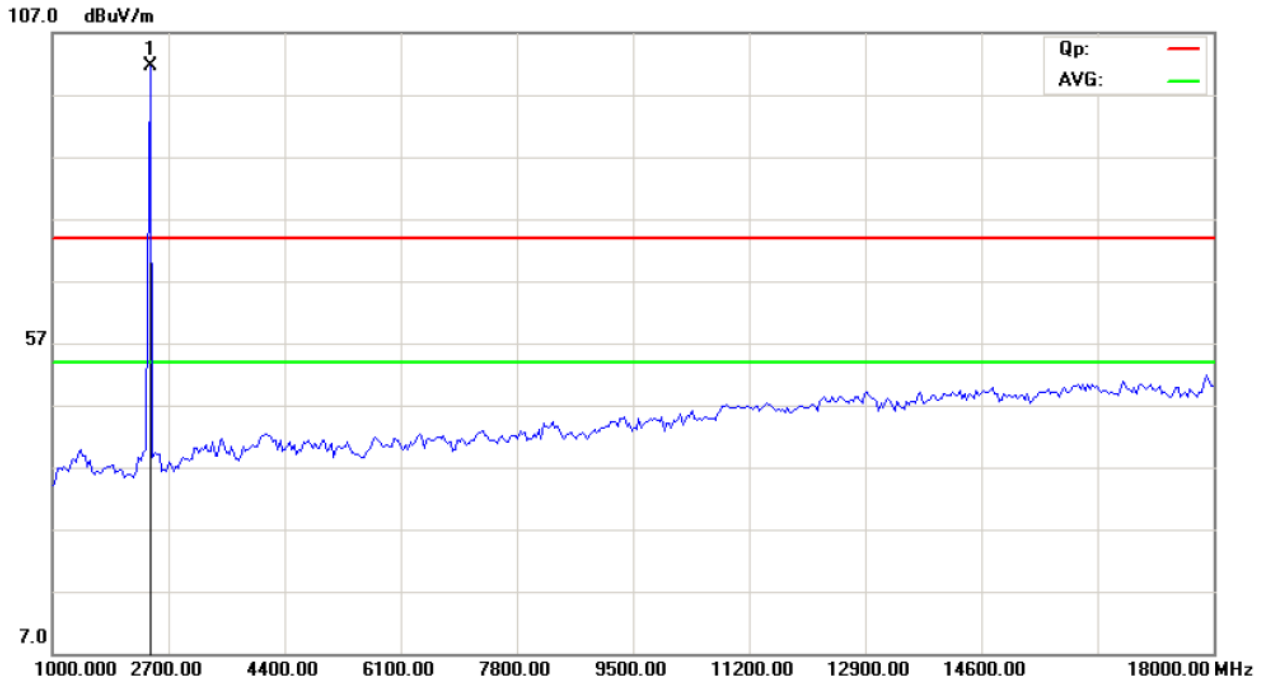


The report refers only to the sample tested and does not apply to the bulk.

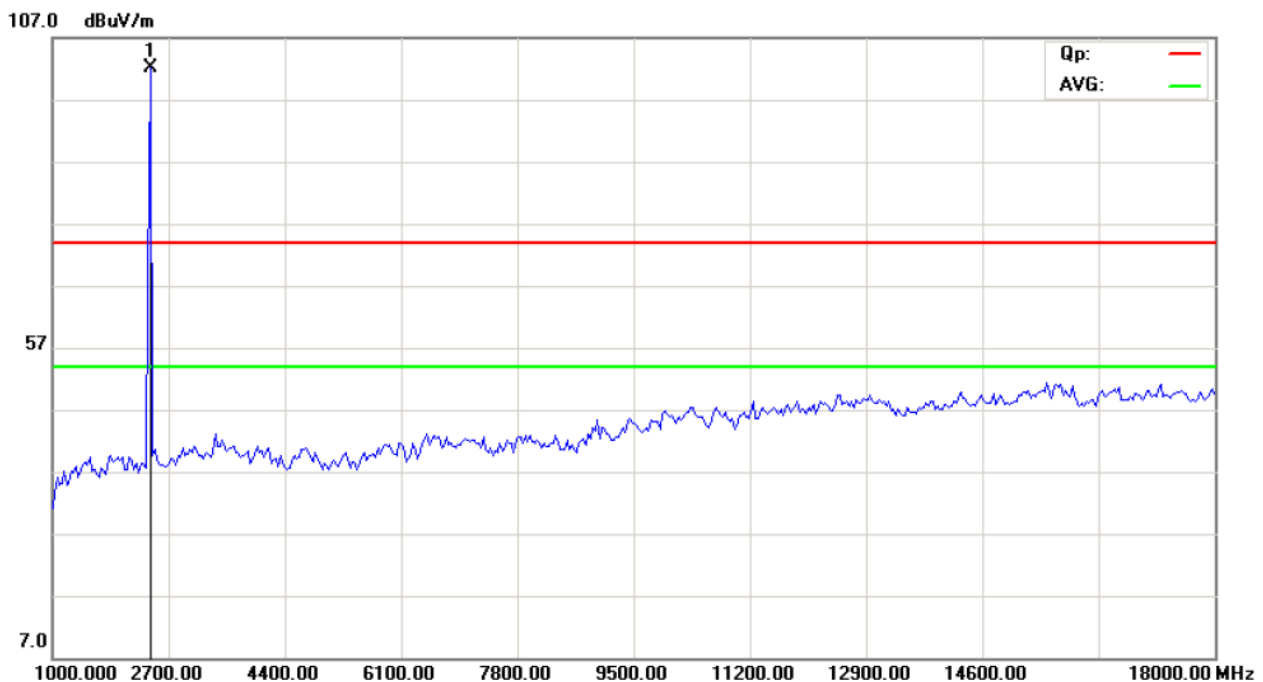
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CH06 at 1Mbps: Vertical



CH06 at 1Mbps: Horizontal

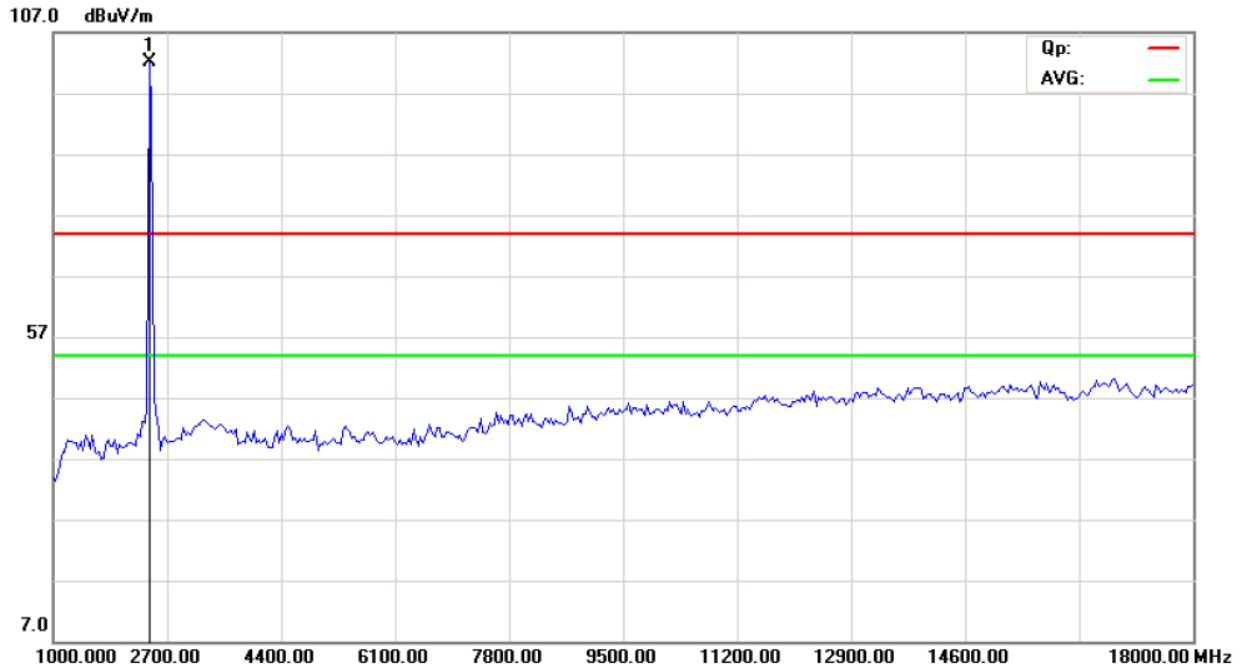


The report refers only to the sample tested and does not apply to the bulk.

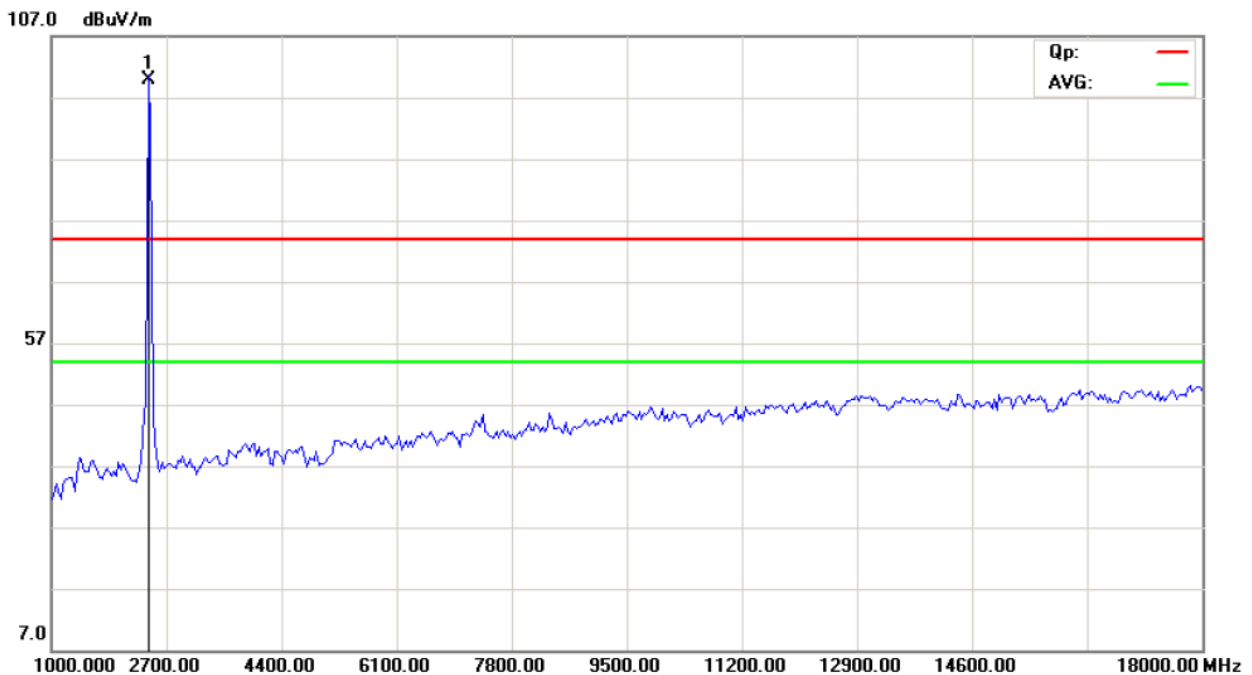
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CH11 at 1Mbps: Vertical



CH11at 1Mbps: Horizontal



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

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

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2412.00	97.22 (PK)	H	Fundamental Frequency
2412.00	101.69 (PK)	V	
4824.00	--	H	--
4824.00	--	V	
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)
16684	--	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 + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11g mode 6Mbps and it is the worse case.

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

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	96.97 (PK)	H	Fundamental Frequency
2437.00	101.63 (PK)	V	
4874.00	--	H	--
4874.00	--	V	
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 + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11g mode 6Mbps and it is the worse case.

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

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2462.00	96.27 (PK)	H	Fundamental Frequency
2462.00	100.12 (PK)	V	
4924	--	H	--
4924	--	V	
7386	--	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)

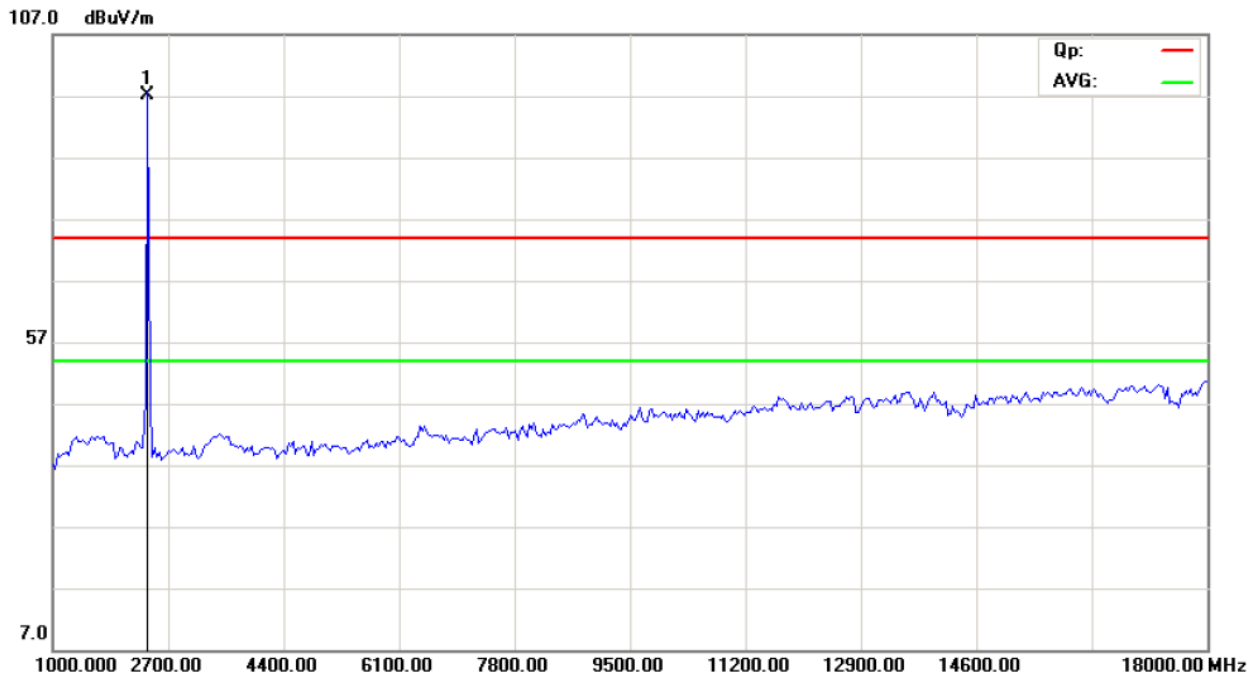
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11g mode 6Mbps and it is the worse case.

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

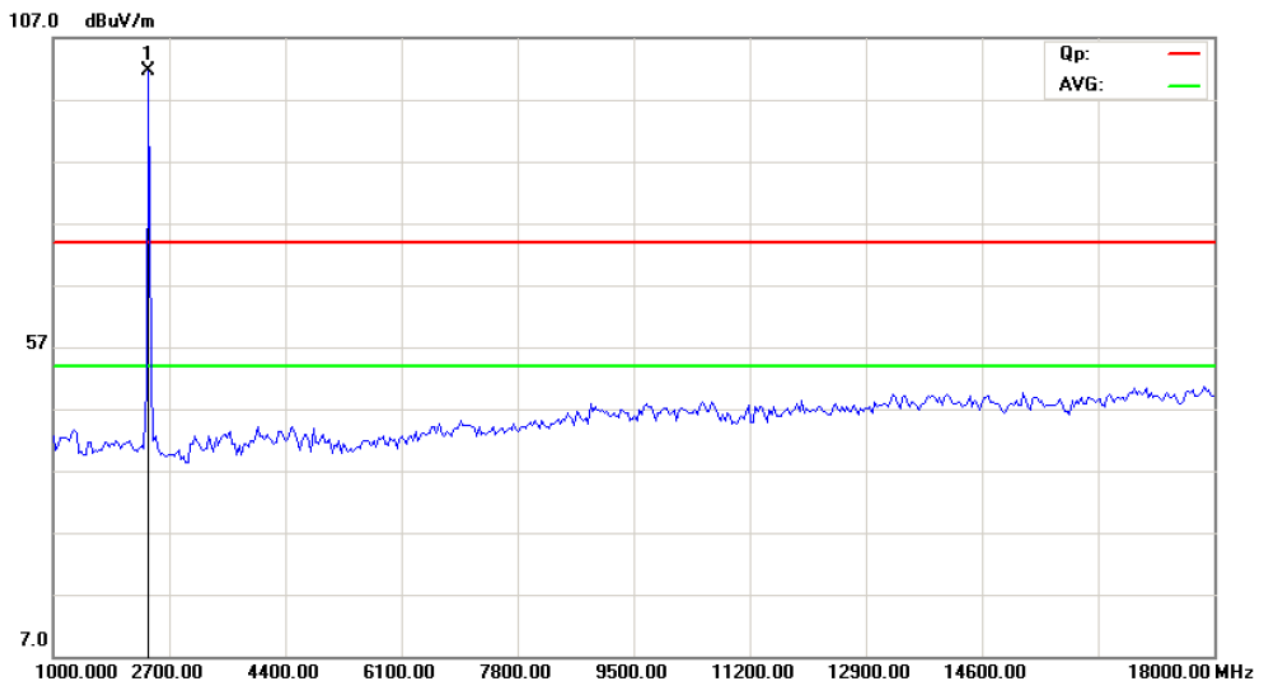
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Please refer to the following test plots for details:

CH01 at 6Mbps: Horizontal



CH01 at 6Mbps: Vertical

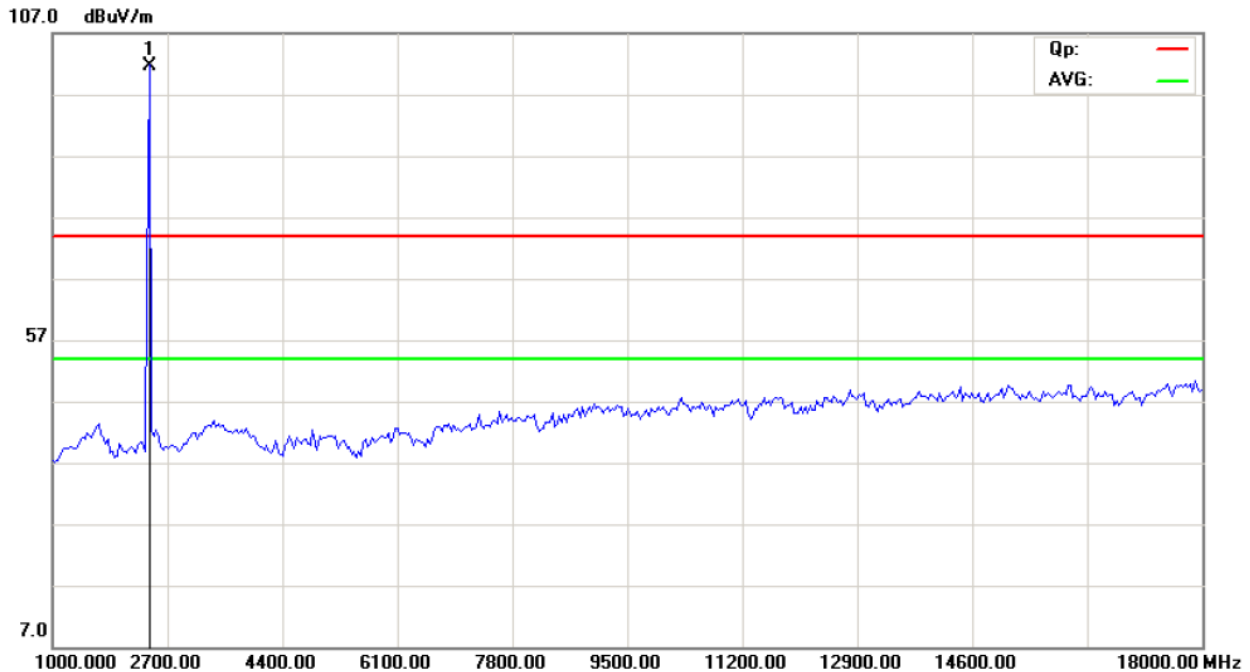


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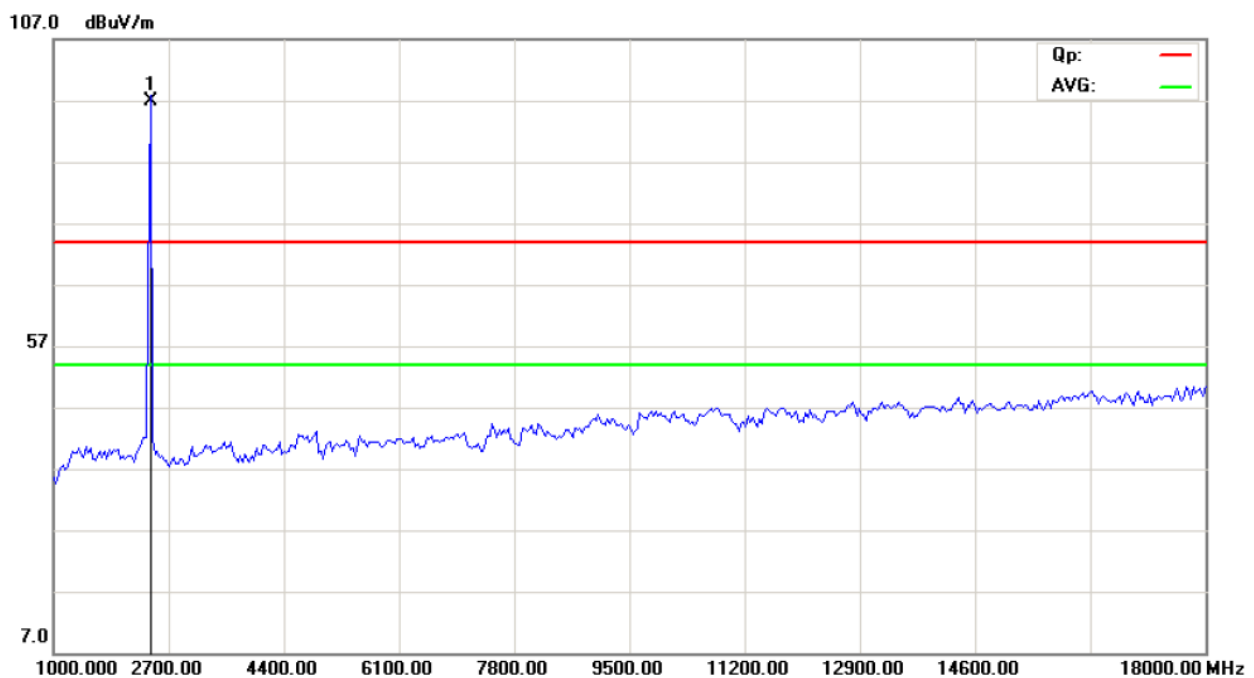
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CH06 at 6Mbps: Vertical



CH06 at 6Mbps: Horizontal

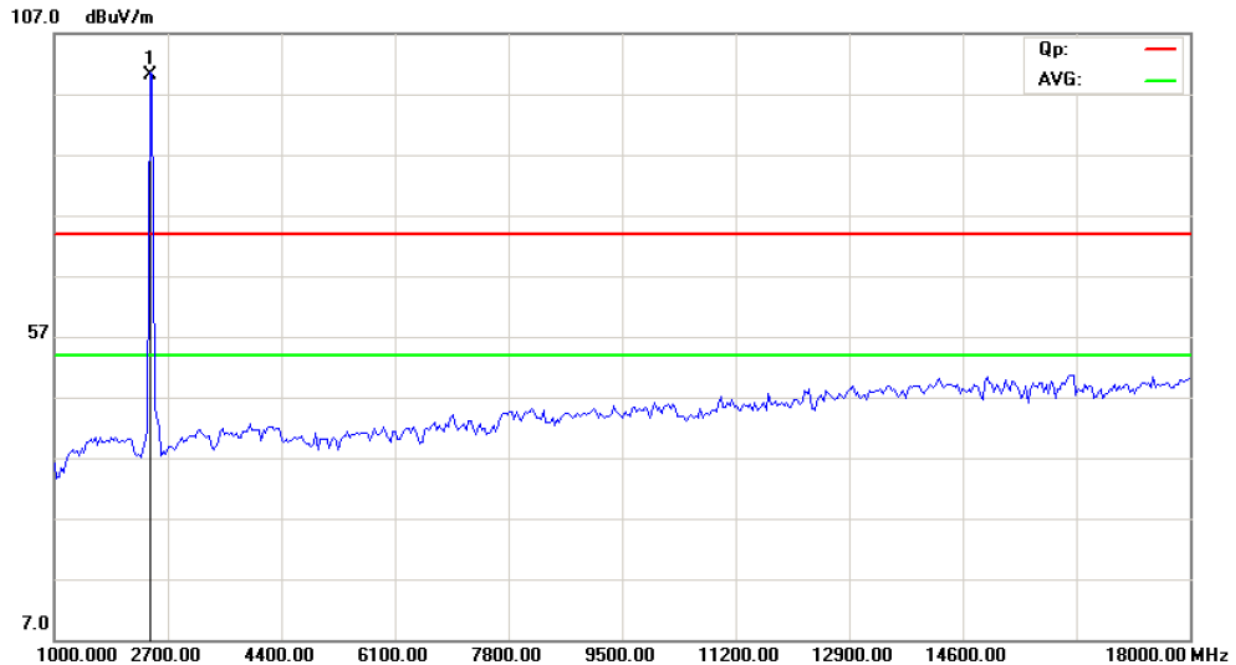


The report refers only to the sample tested and does not apply to the bulk.

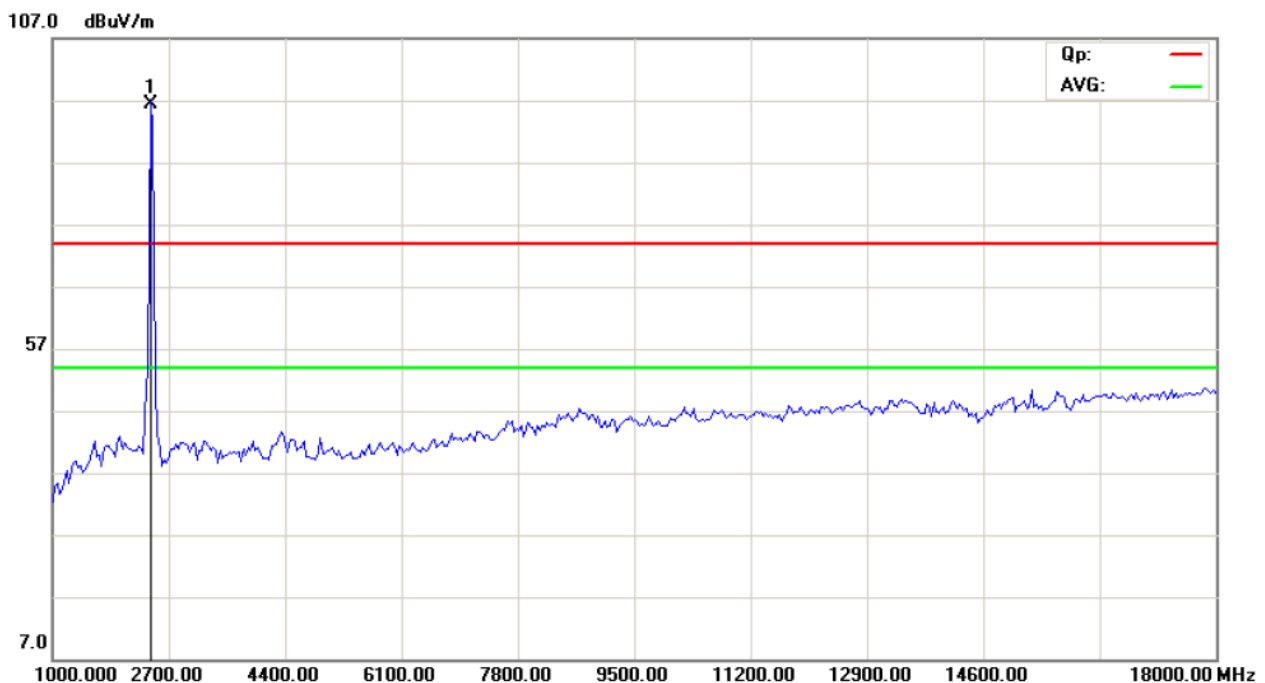
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CH11 at 6Mbps: Vertical



CH11 at 6 Mbps: Horizontal



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

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

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2412.00	99.32 (PK)	H	Fundamental Frequency
2412.00	102.42 (PK)	V	
4824.00	--	H	74(Peak)/ 54(AV)
4824.00	--	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)
16684	--	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 + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11n HT20 at 6.5Mbps and it is the worse case.

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

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	99.86 (PK)	H	Fundamental Frequency
2437.00	102.67 (PK)	V	
4874.00	--	H	74(Peak)/ 54(AV)
4874.00	--	V	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 + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802. 11n HT20 at 6.5Mbps and it is the worse case.

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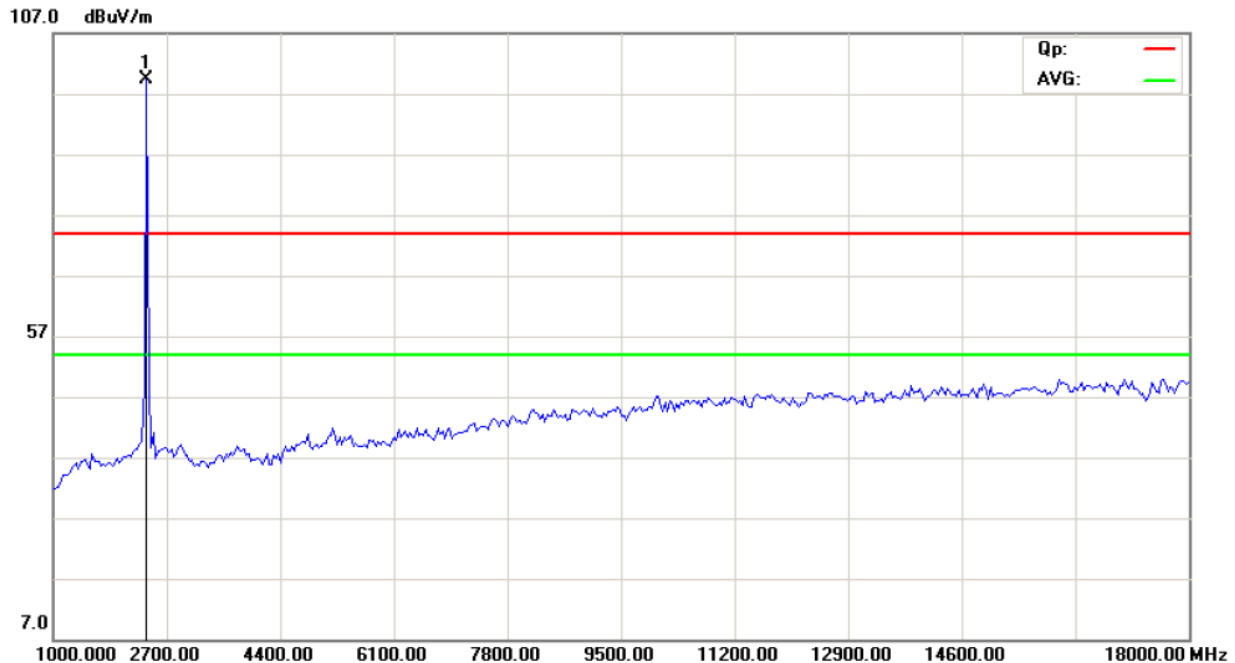
Operation Mode: Transmitting & Receiving under CH11 for 11n HT20 at 6.5Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2462.00	99.61 (PK)	H	Fundamental Frequency
2462.00	103.31 (PK)	V	
4924	--	H	74(Peak)/ 54(AV)
4924	--	V	74(Peak)/ 54(AV)
7386	--	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)

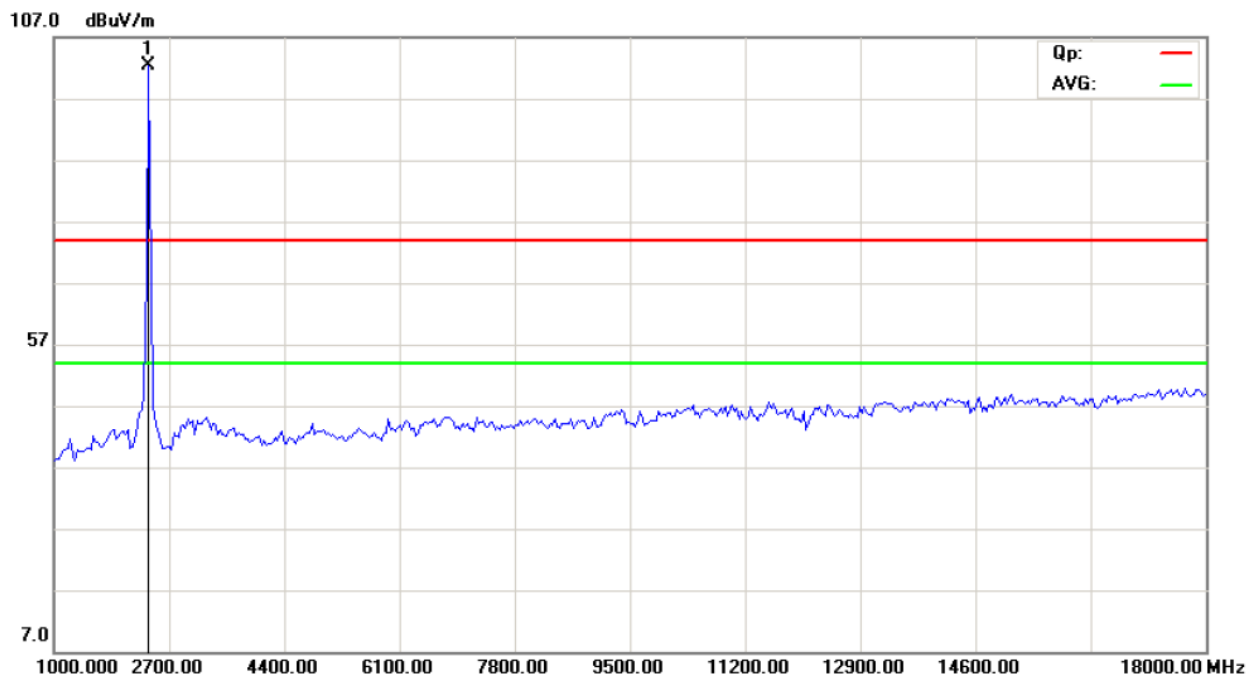
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802. 11n HT20 at 6.5Mbps and it is the worse case.

Please refer to the following test plots for details:

CH01 at 11n HT20 at 6.5Mbps: Horizontal



CH01 at 11n HT20 at 6.5Mbps: Vertical

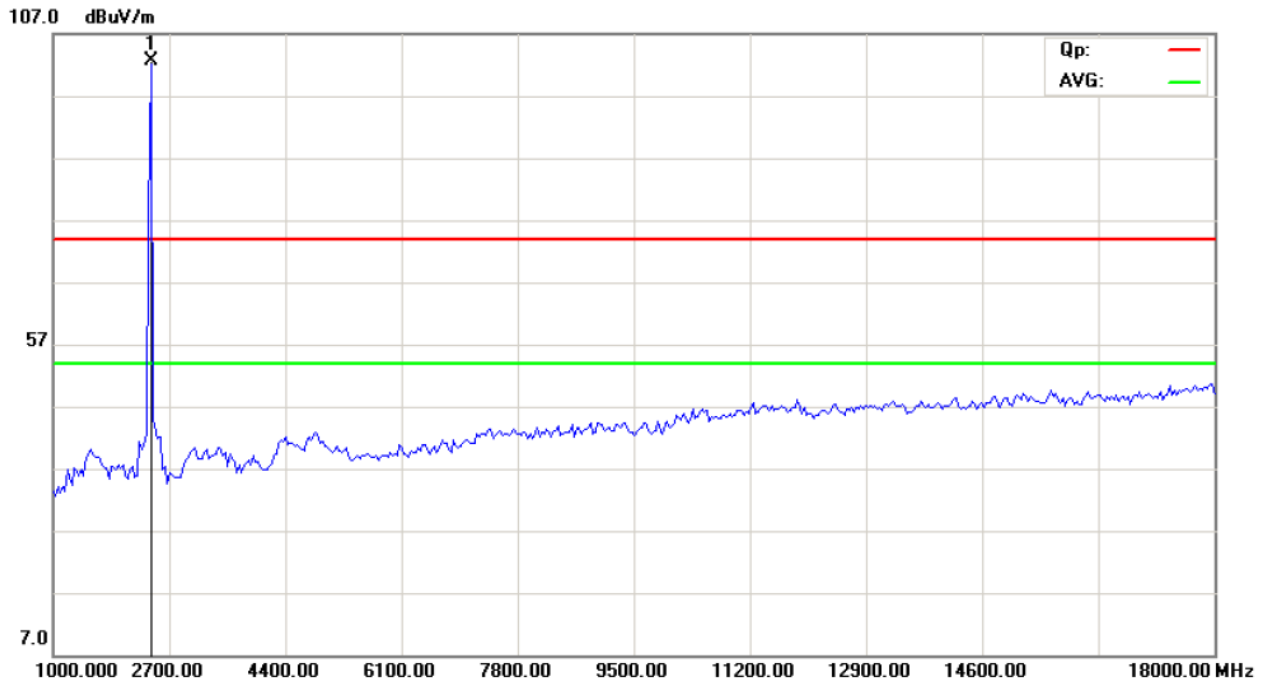


The report refers only to the sample tested and does not apply to the bulk.

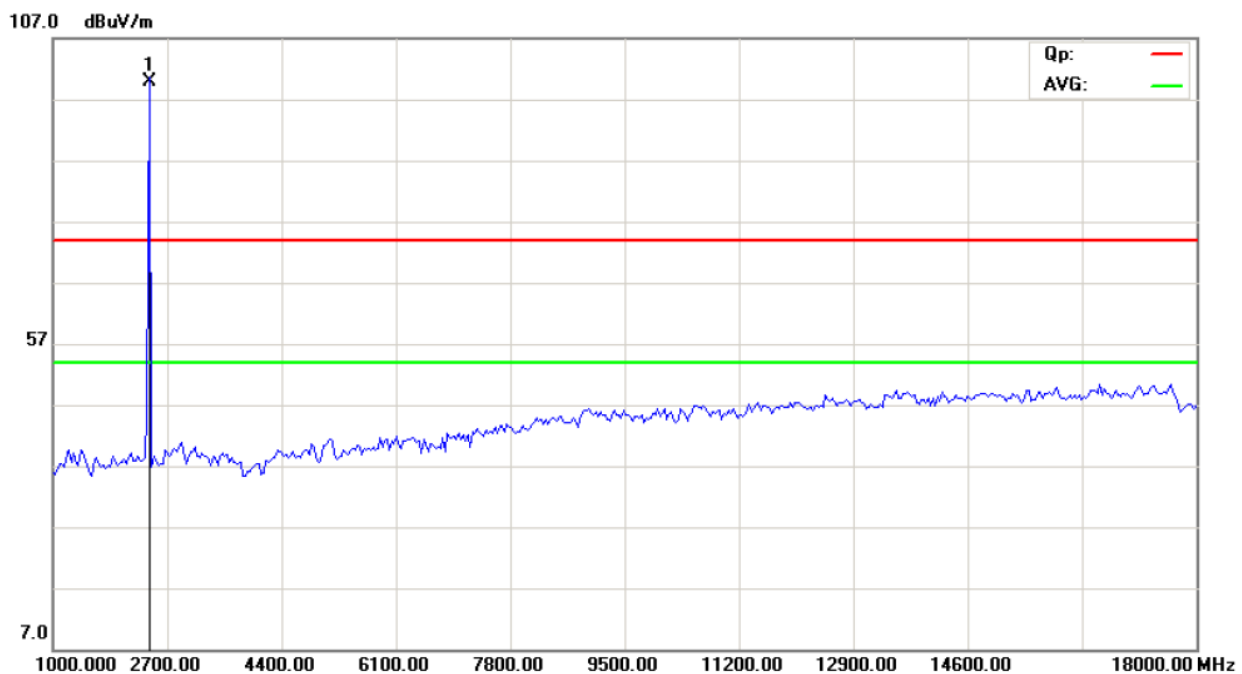
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CH06 at 11n HT20 at 6.5Mbps: Vertical



CH06 at 11n HT20 at 6.5Mbps: Horizontal

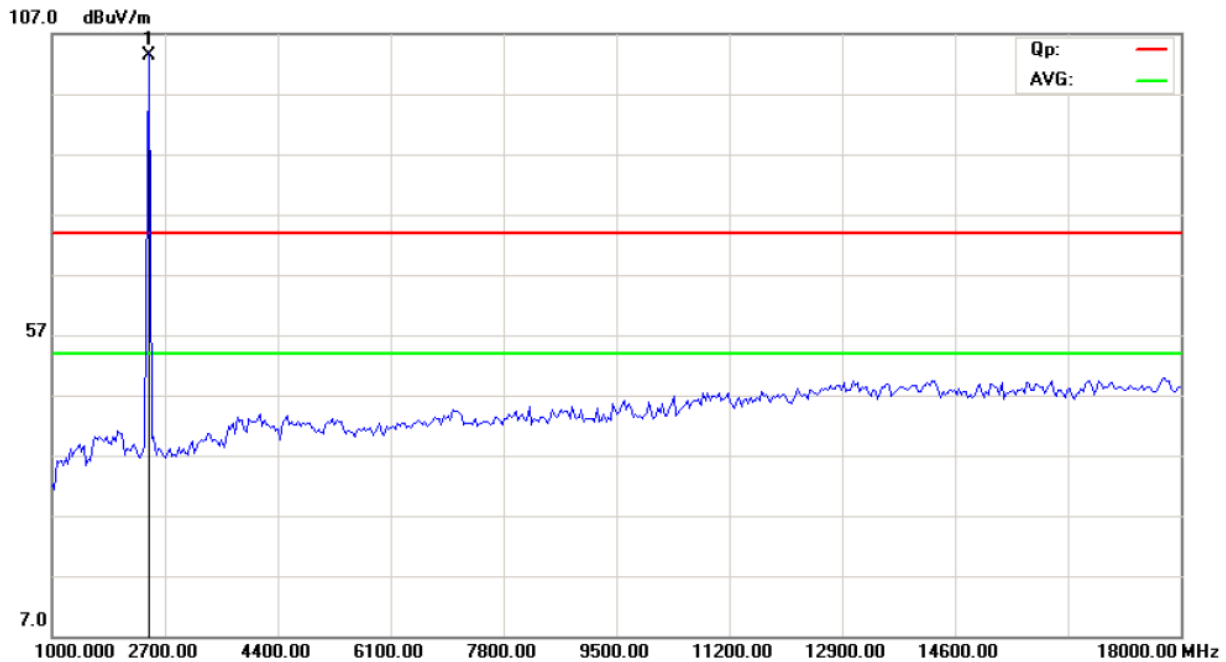


The report refers only to the sample tested and does not apply to the bulk.

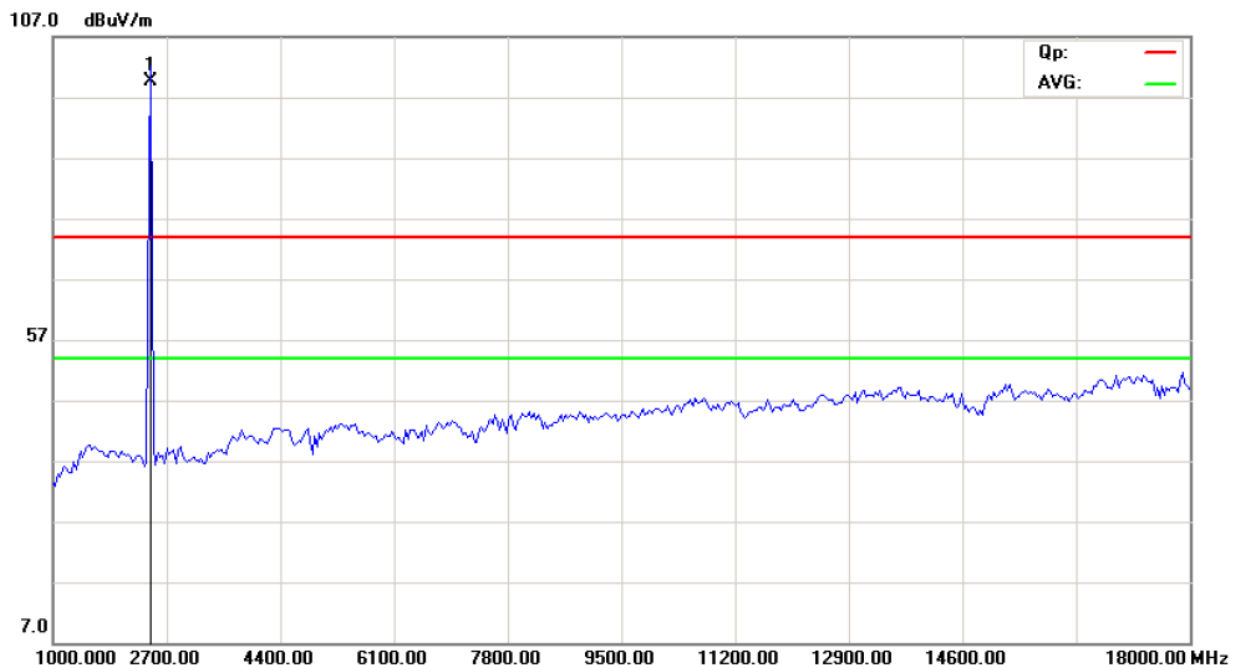
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CH11 at 11n HT20 at 6.5Mbps: Vertical



CH11 at 11n HT20 at 6.5Mbps: Horizontal



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

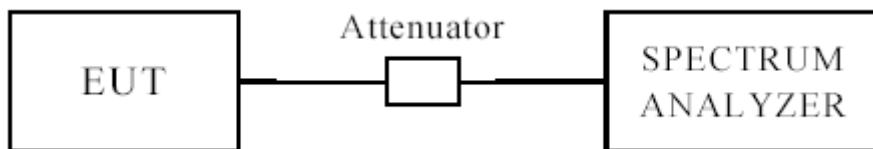
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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500kHz

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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EUT		IP Camera		Model	JPT3815W
Mode		802.11b		Input Voltage	AC 120V
Temperature		24 deg. C,		Humid Pity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	1	10.08	0.5	Pass
6	2437	1	10.08	0.5	Pass
11	2462	1	10.08	0.5	Pass
1	2412	11	9.36	0.5	Pass
6	2437	11	9.36	0.5	Pass
11	2462	11	9.36	0.5	Pass

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EUT		IP Camera		Model	JPT3815W
Mode		802.11g		Input Voltage	AC 120V
Temperature		24 deg. C,		Humid Pity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	6	16.32	0.5	Pass
6	2437	6	16.32	0.5	Pass
11	2462	6	16.32	0.5	Pass

EUT		IP Camera		Model	JPT3815W
Mode		802.11n HT20		Input Voltage	AC 120V
Temperature		24 deg. C,		Humid Pity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	6.5	17.64	0.5	Pass
6	2437	6.5	17.64	0.5	Pass
11	2462	6.5	17.64	0.5	Pass

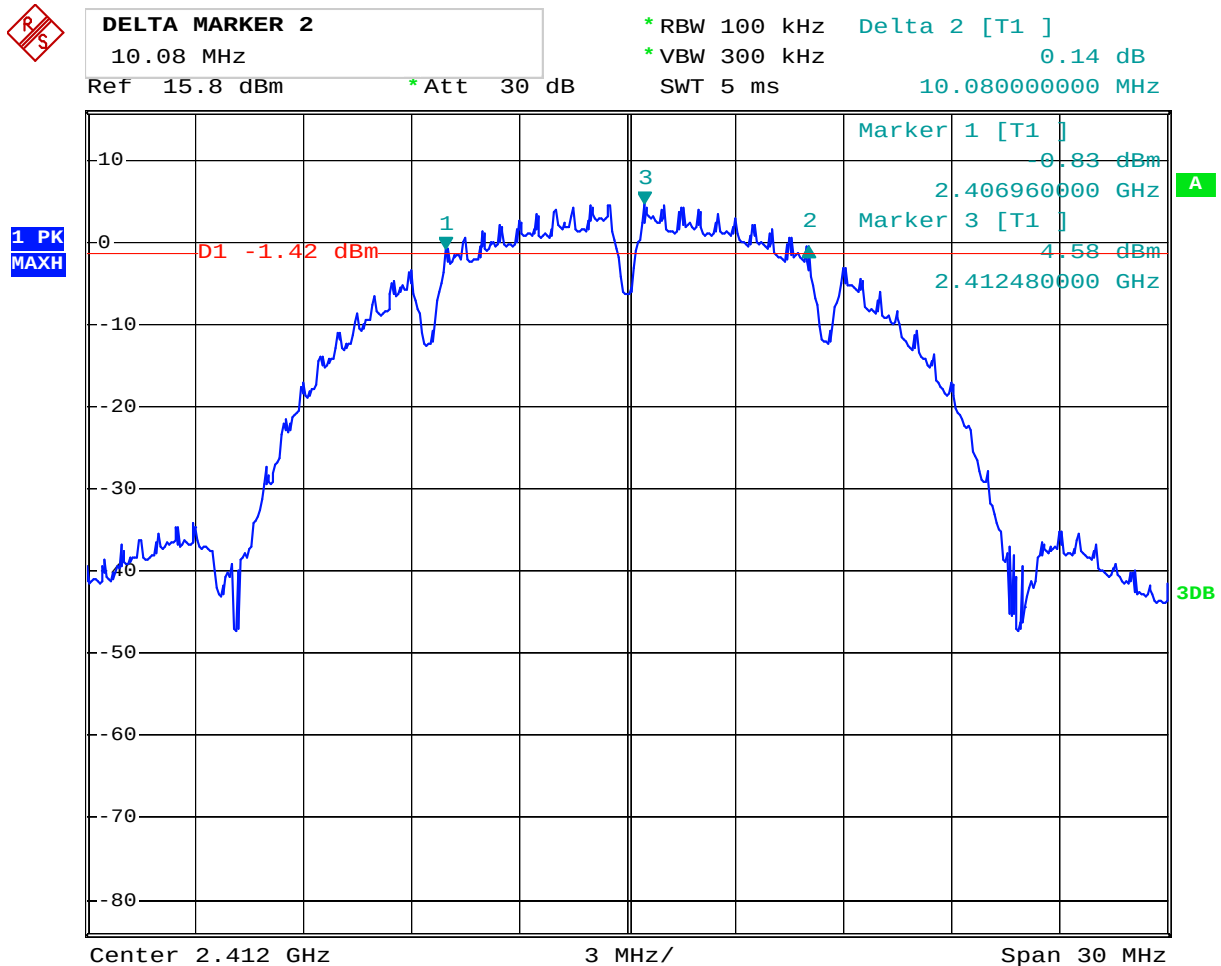
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1. 802.11b at 1Mbps of CH01



Date: 22.APR.2013 12:47:34

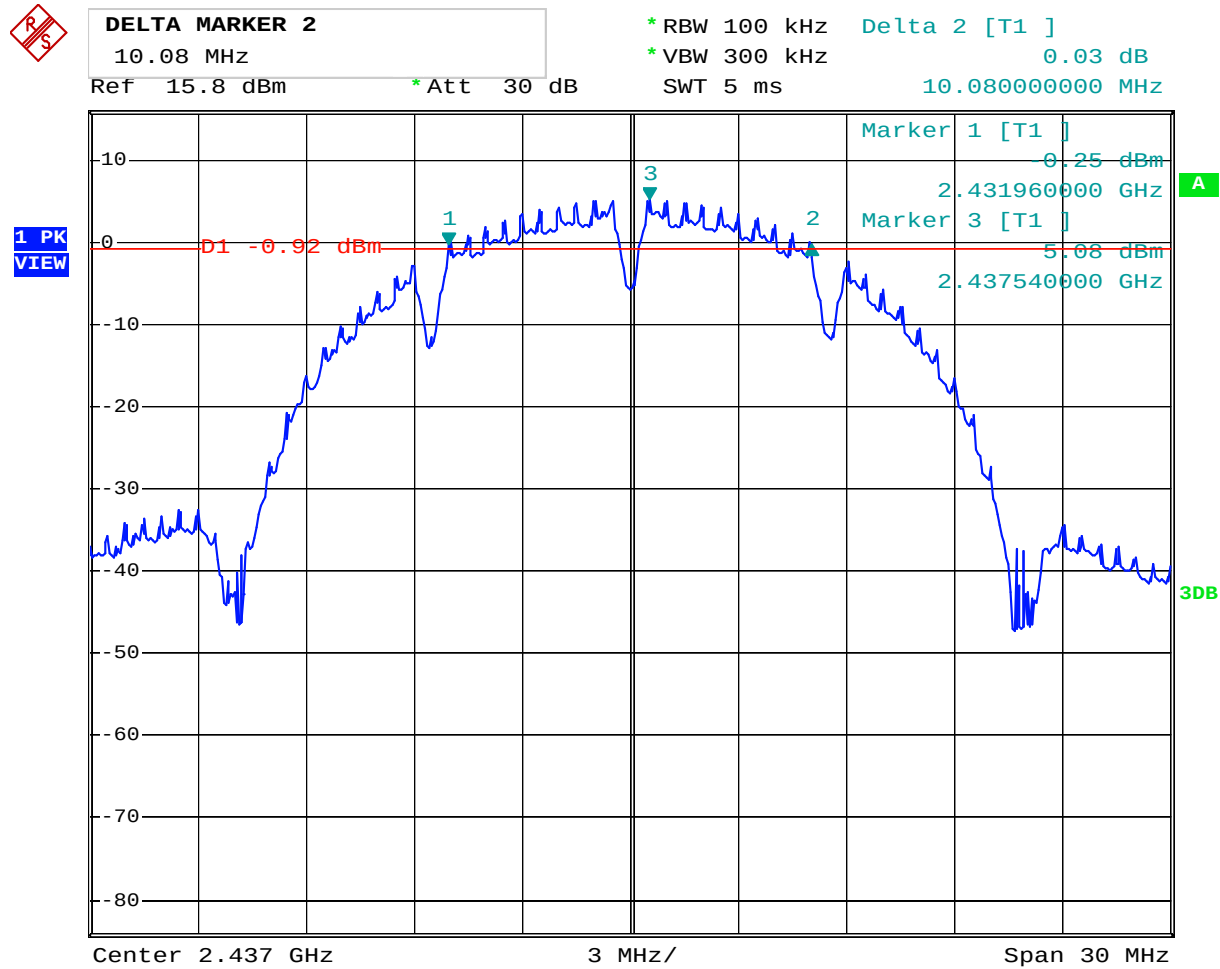
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2. 802.11b at 1Mbps of CH06

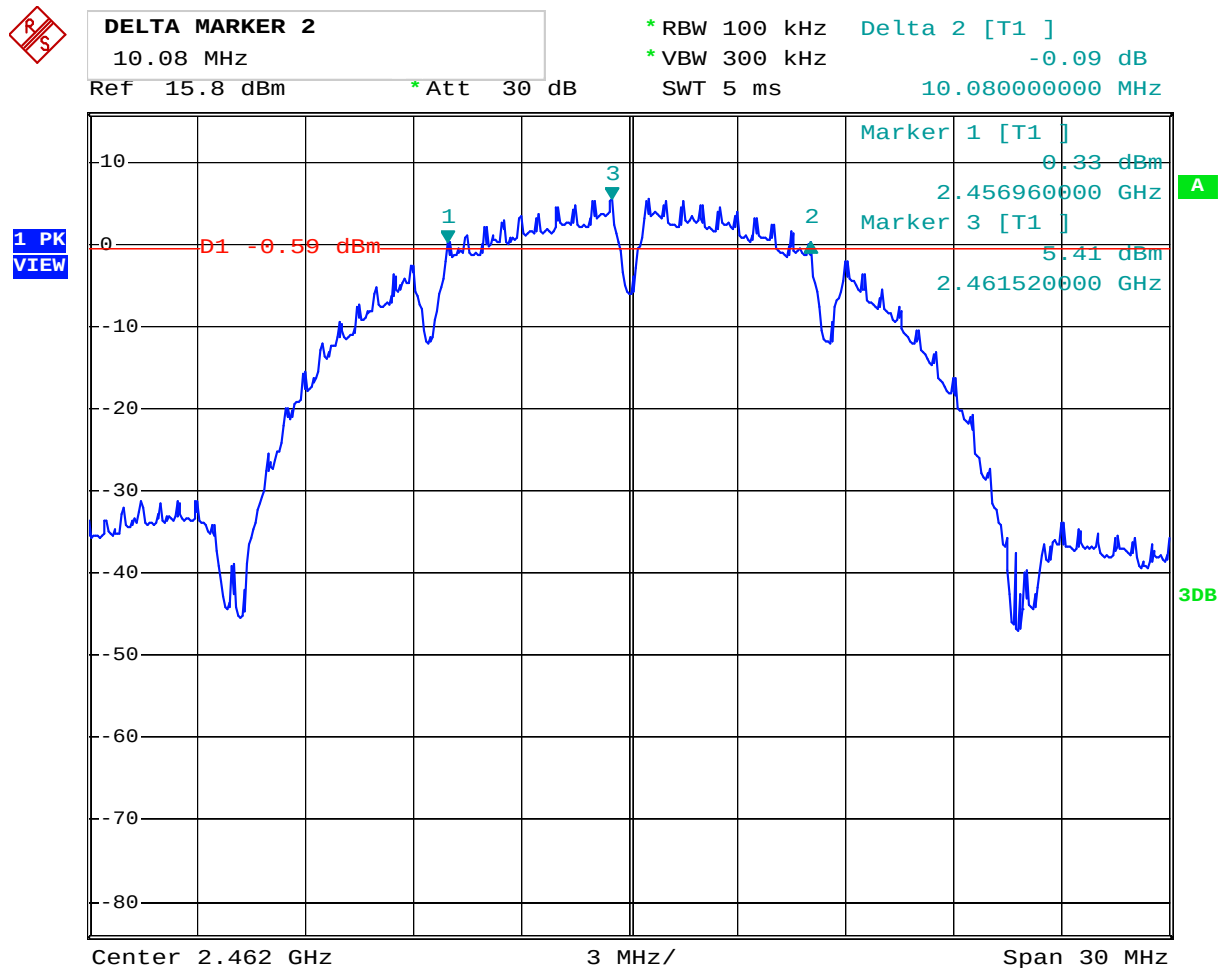


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3. 802.11b at 1Mbps of CH11

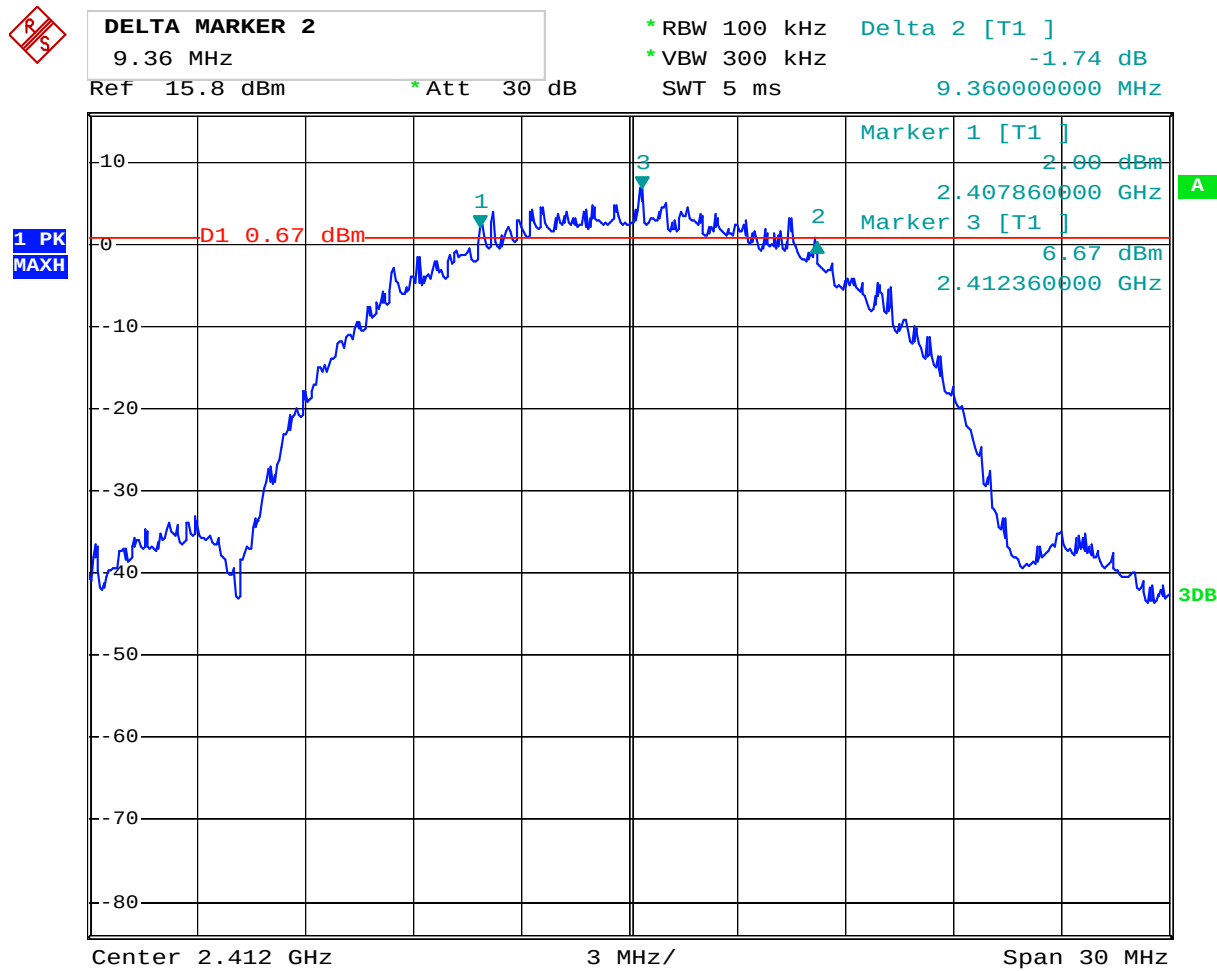


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4. 802.11b at 11Mbps of CH01



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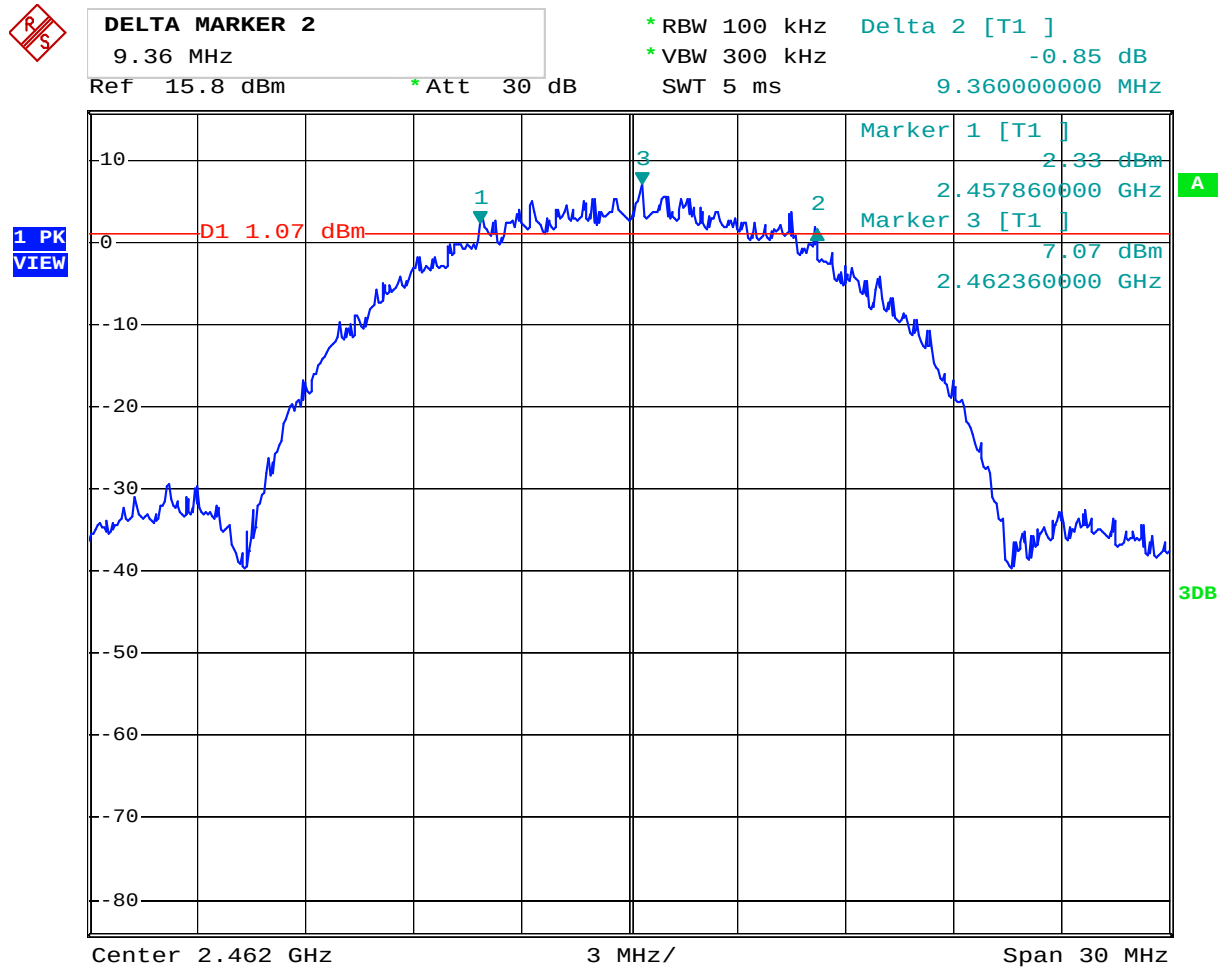
A

3DB

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6. 802.11b at 11Mbps of CH11

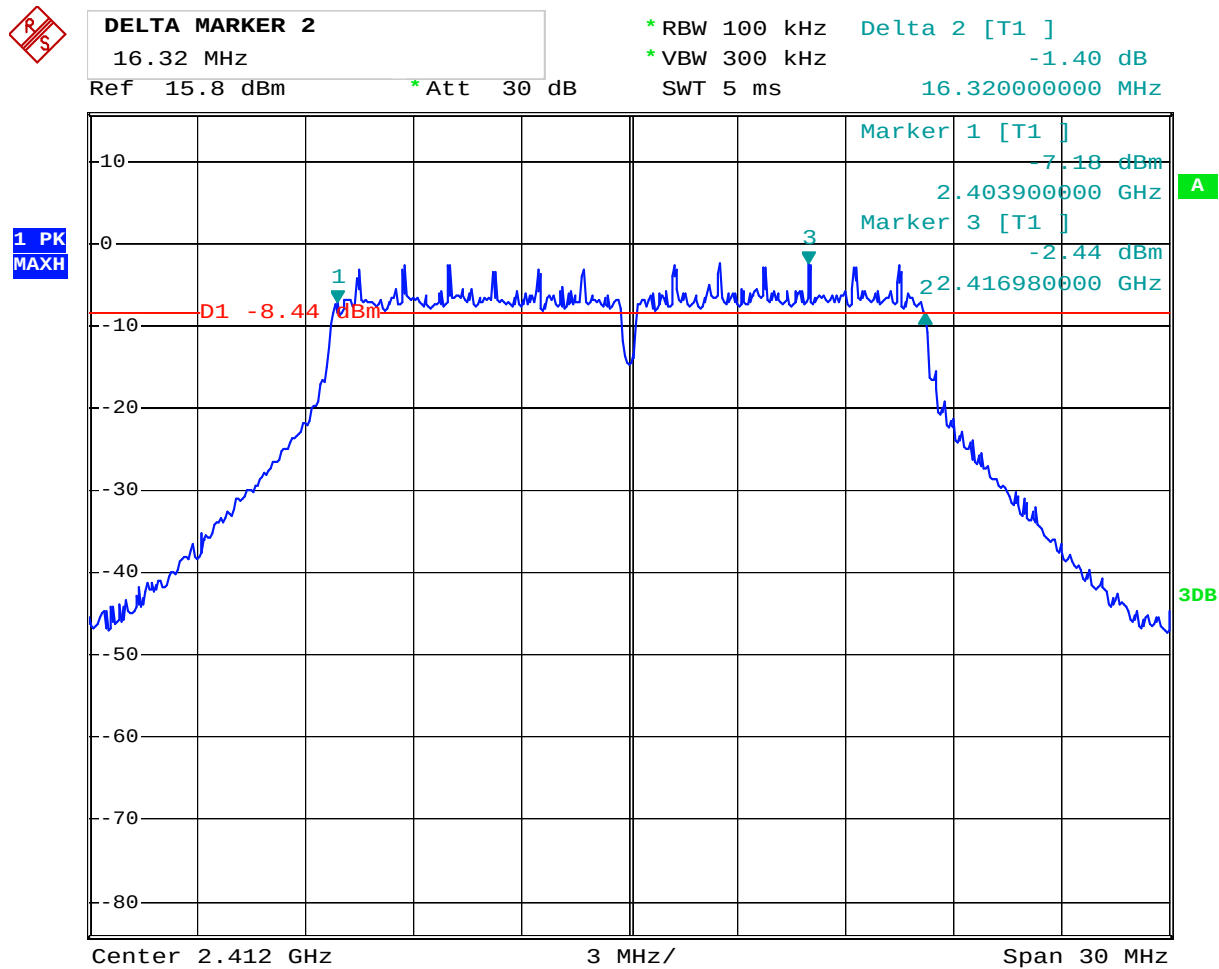


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7. 802.11g at 6 Mbps of CH01

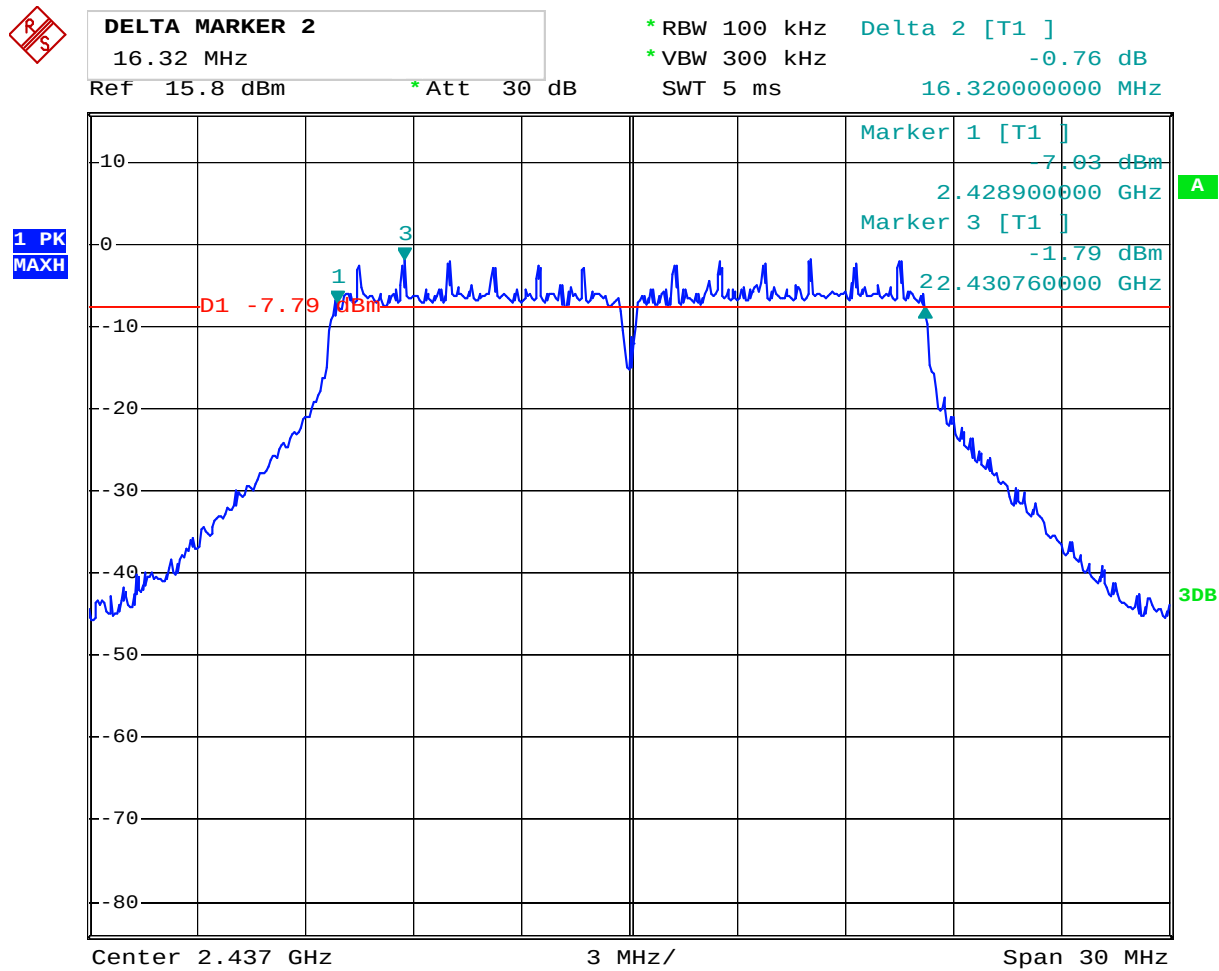


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8. 802.11g at 6 Mbps of CH06

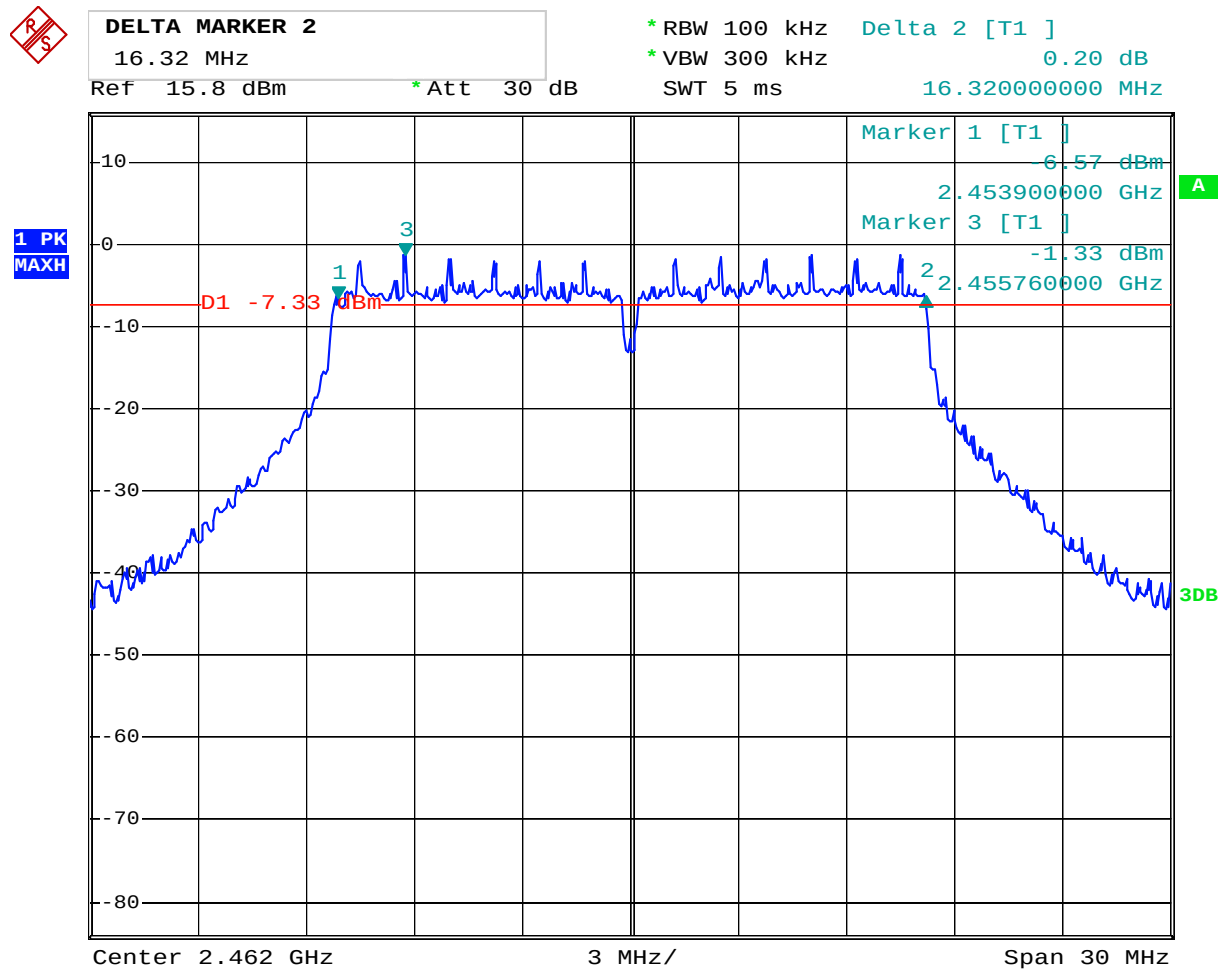


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9. 802.11g at 6 Mbps of CH11

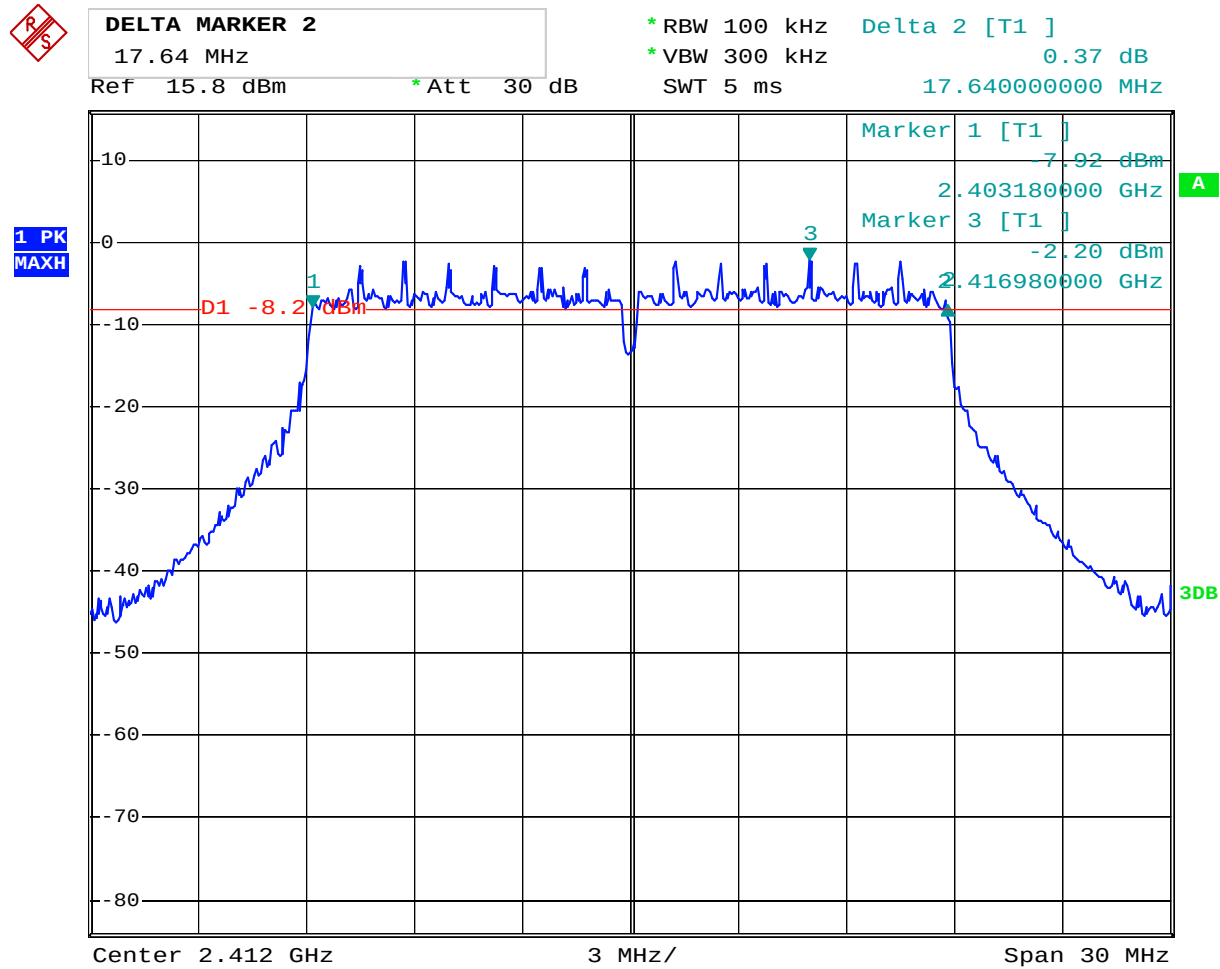


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10. 802.11n at HT20 6.5Mbps of CH01

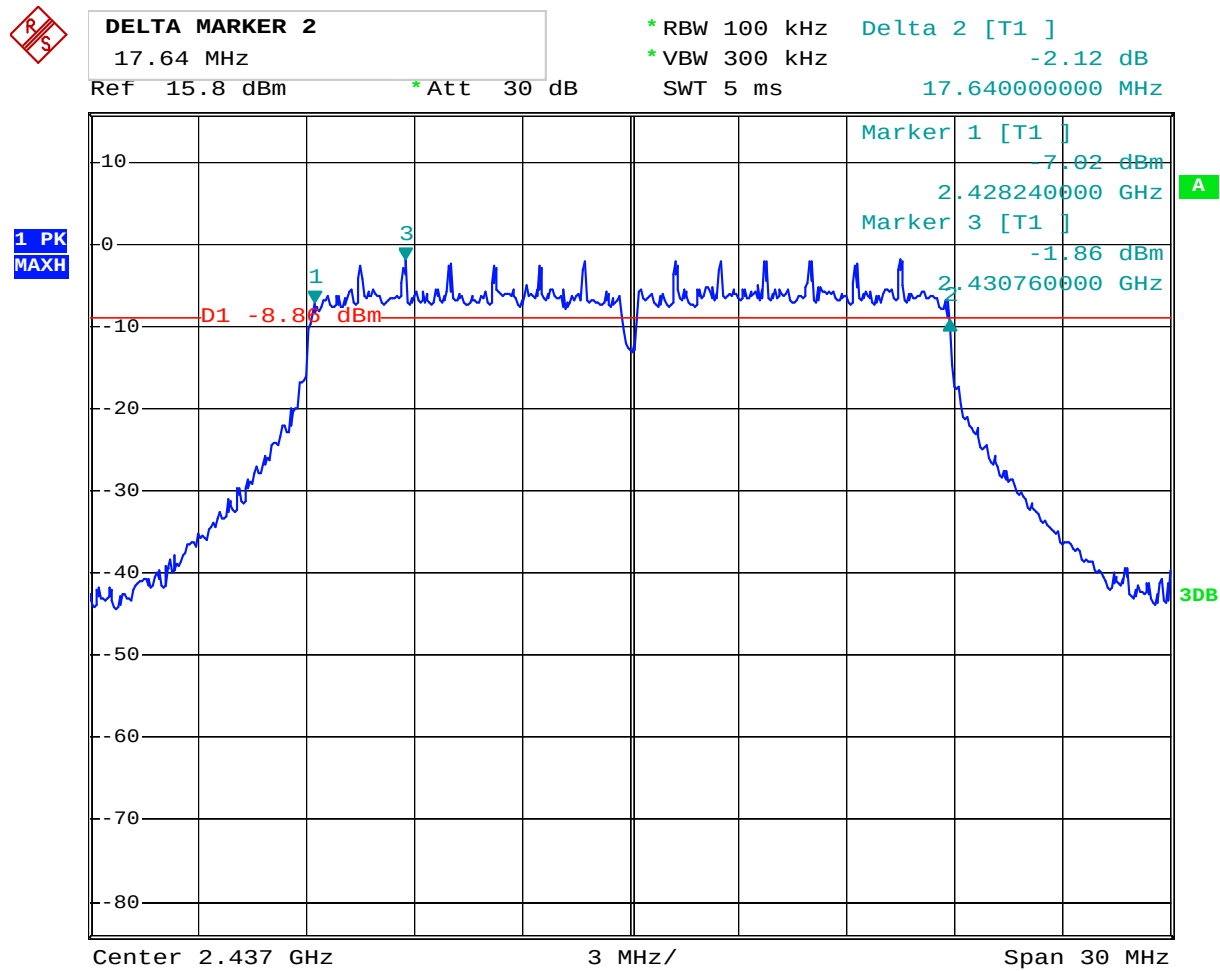


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11. 802.11n at HT20 6.5Mbps of CH06

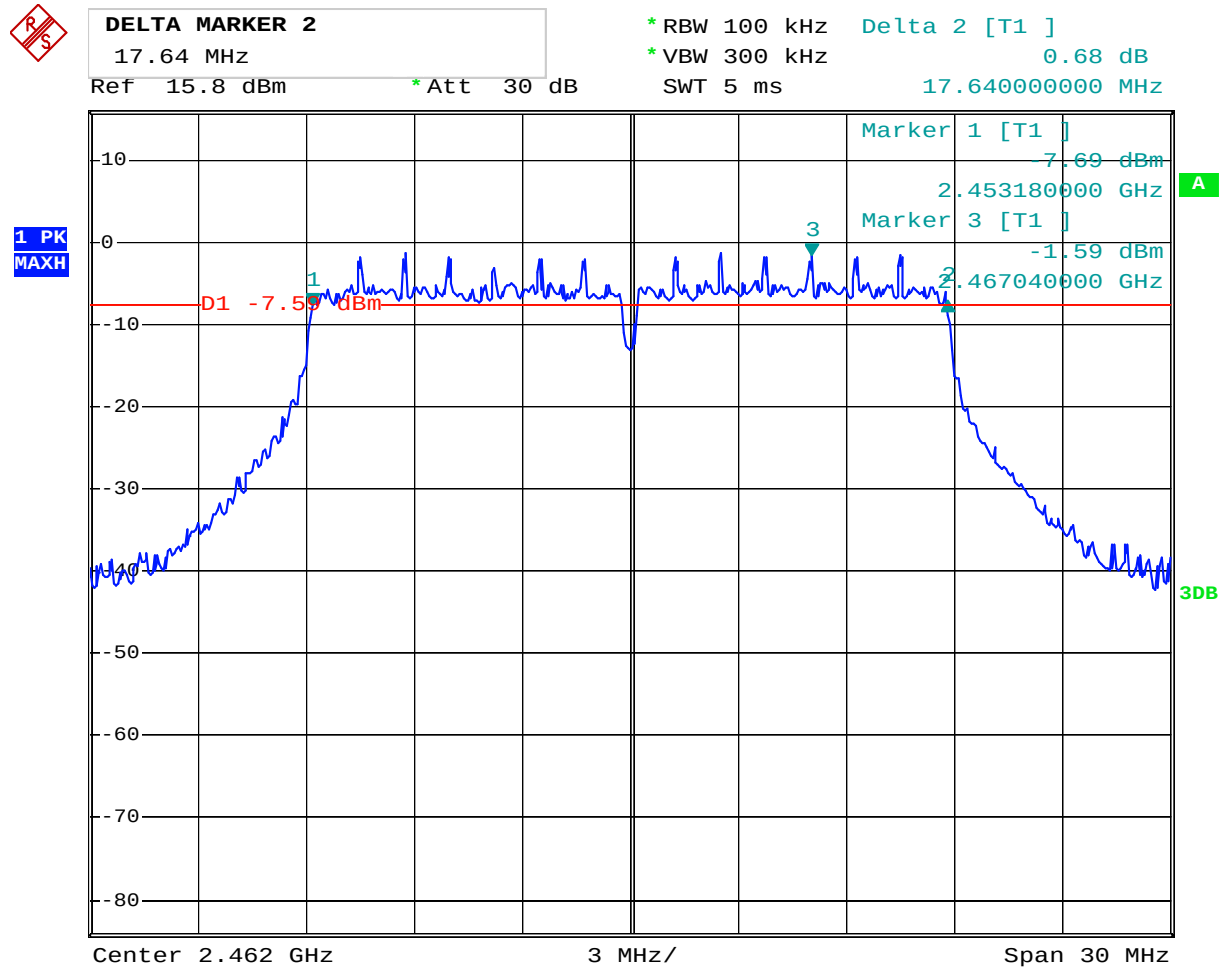


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12. 802.11n at HT20 6.5Mbps of CH11



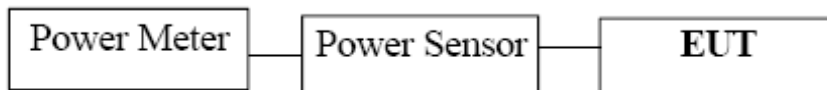
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8. Maximum Peak Output Power

8.1 Test Setup



8.2 Limits of Maximum Peak Output Power

The Maximum Peak 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		IP Camera		Model		JPT3815W	
Mode		802.11b 1Mbps		Input Voltage		See Below	
Temperature		24 deg. C,		Humid Pity		56% RH	
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail
Test Voltage:120V~							
1	2412		20.10		30		Pass
6	2437		20.55		30		Pass
11	2462		20.99		30		Pass

Note: 1. At final test to get the highest output power at 1Mbps for CH01, CH06 and CH11 at 11b mode

2. The result basic equation calculation as follow:

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

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EUT	IP Camera		Model	JPT3815W
Mode	802.11g		Input Voltage	See Below
Temperature	24 deg. C,		Humid Pity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
Test Voltage:120V~				
1	2412	16.80	30	Pass
6	2437	17.32	30	Pass
11	2462	17.80	30	Pass

Note: 1. At finial test to get the highest output power at 6Mbps for CH01, CH06 and CH11 at 11g mode

2. The result basic equation calculation as follow:

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

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EUT	IP Camera		Model	JPT3815W
Mode	802.11n HT20		Input Voltage	See Below
Temperature	24 deg. C,		Humid Pity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
Test Voltage:120V~				
1	2412	17.04	30	Pass
6	2437	17.39	30	Pass
11	2462	18.03	30	Pass

Note: 1. At finial test to get the highest output power at 6.5Mbps for CH01, CH06 and CH11 at 11n Mode

2. The result basic equation calculation as follow:

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

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

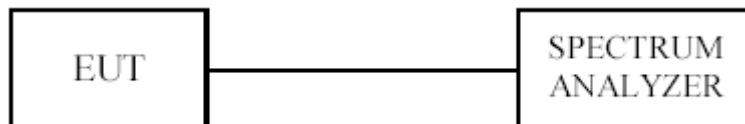
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

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		IP Camera		Model		JPT3815W	
Mode		802.11b 1Mbps		Input Voltage		AC 120V	
Temperature		24 deg. C,		Humid Pity		56% RH	
Channel	Channel Frequency (MHz)		Final RF Power Level in 3kHz BW (dBm)		Maximum Limit (dBm)		Pass/ Fail
1Mbps							
1	2412		-4.94		8		Pass
6	2437		-4.40		8		Pass
11	2462		-3.41		8		Pass

EUT		IP Camera		Model		JPT3815W	
Mode		802.11b 11Mbps		Input Voltage		AC 120V	
Temperature		24 deg. C,		Humid Pity		56% RH	
Channel	Channel Frequency (MHz)		Final RF Power Level in 3kHz BW (dBm)		Maximum Limit (dBm)		Pass/ Fail
11Mbps							
1	2412		-3.90		8		Pass
6	2437		-4.82		8		Pass
11	2462		-2.62		8		Pass

Note: At final test to get the worst-case at 11Mbps for CH01, CH06 and CH11

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EUT		IP Camera		Model		JPT3815W	
Mode		802.11g 54 Mbps		Input Voltage		AC 120V	
Temperature		24 deg. C,		Humid Pity		56% RH	
Channel	Channel Frequency (MHz)		Final RF Power Level in 3kHz BW (dBm)		Maximum Limit (dBm)		Pass/ Fail
6Mbps							
1	2412		-12.69		8		Pass
6	2437		-12.37		8		Pass
11	2462		-11.48		8		Pass

Note: At finial test to get the worst-case at 54Mbps for CH01, CH06 and CH11

EUT		IP Camera		Model		JPT3815W	
Mode		802.11n HT20		Input Voltage		AC 120V	
Temperature		24 deg. C,		Humid Pity		56% RH	
Channel	Channel Frequency (MHz)		Final RF Power Level in 3kHz BW (dBm)		Maximum Limit (dBm)		Pass/ Fail
11n HT20 6.5Mbps							
1	2412		-11.91		8		Pass
6	2437		-11.49		8		Pass
11	2462		-10.97		8		Pass

Note: At finial test to get the worst-case at 6.5Mbps for CH01, CH06 and CH11

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

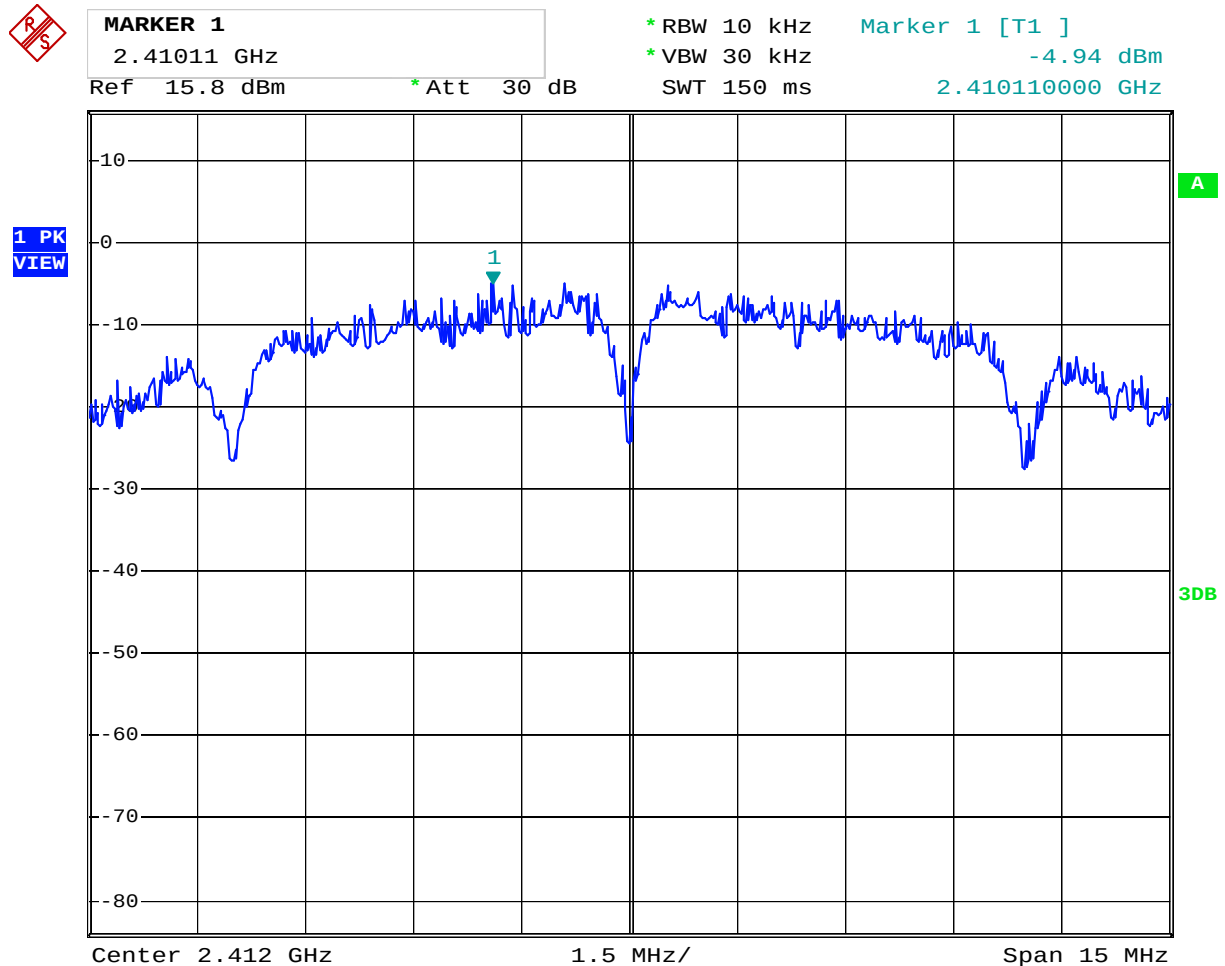
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9.5 Photo of Power Spectral Density Measurement

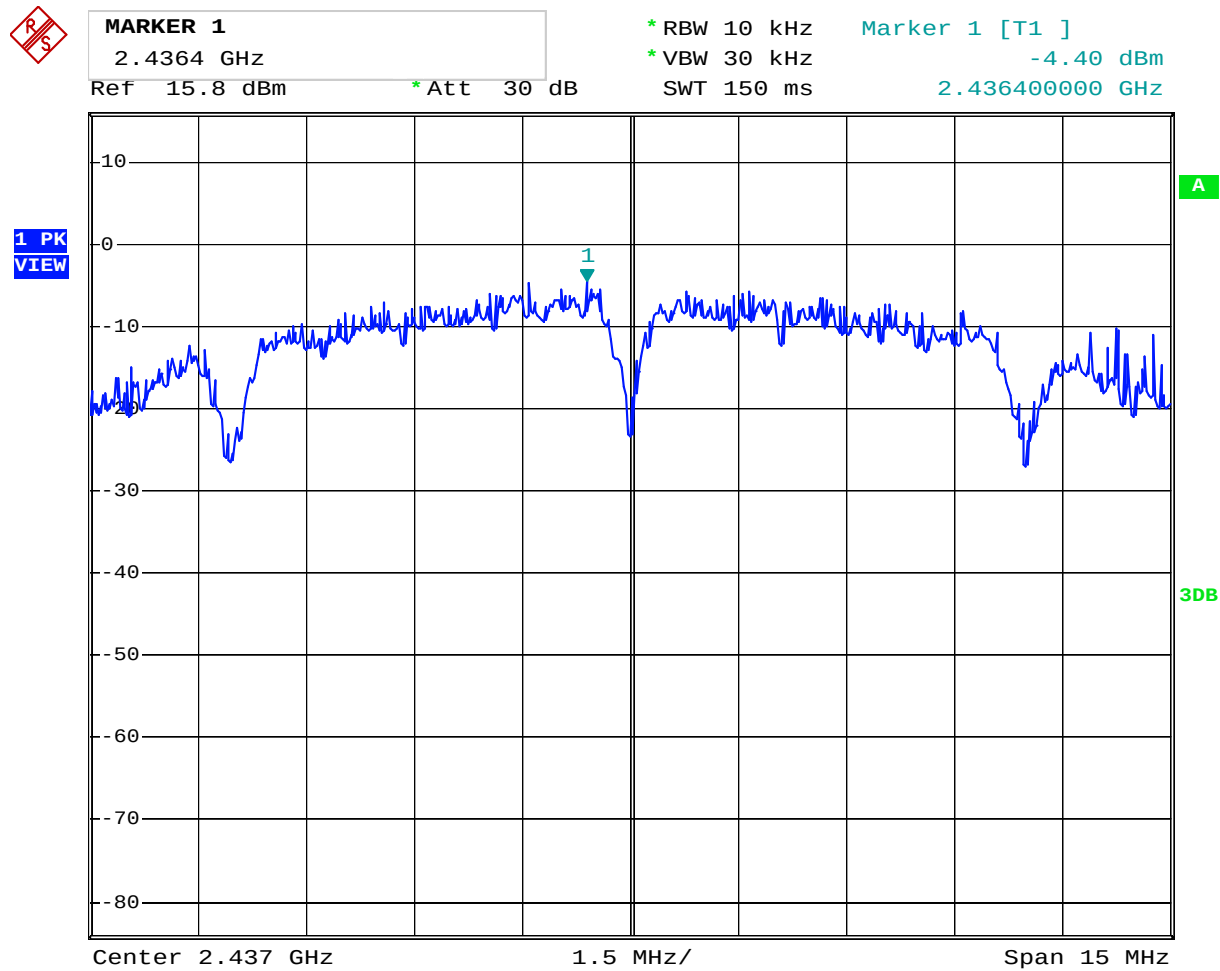
1. 802.11b at 1Mbps of CH01



Date: 22.APR.2013 14:48:19



2. 802.11b at 1Mbps of CH06

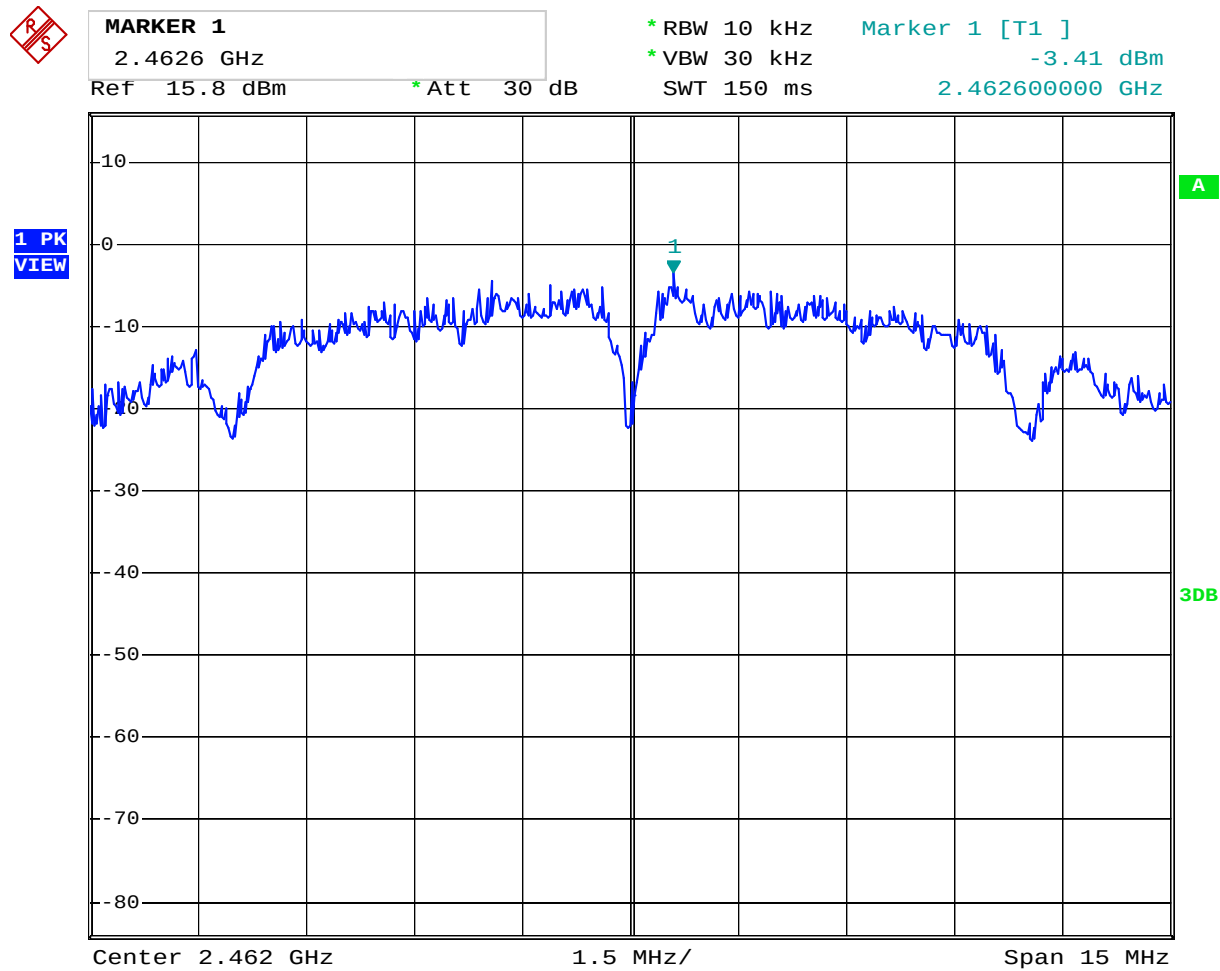


Date: 22.APR.2013 14:48:49

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3. 802.11b at 1Mbps of CH11

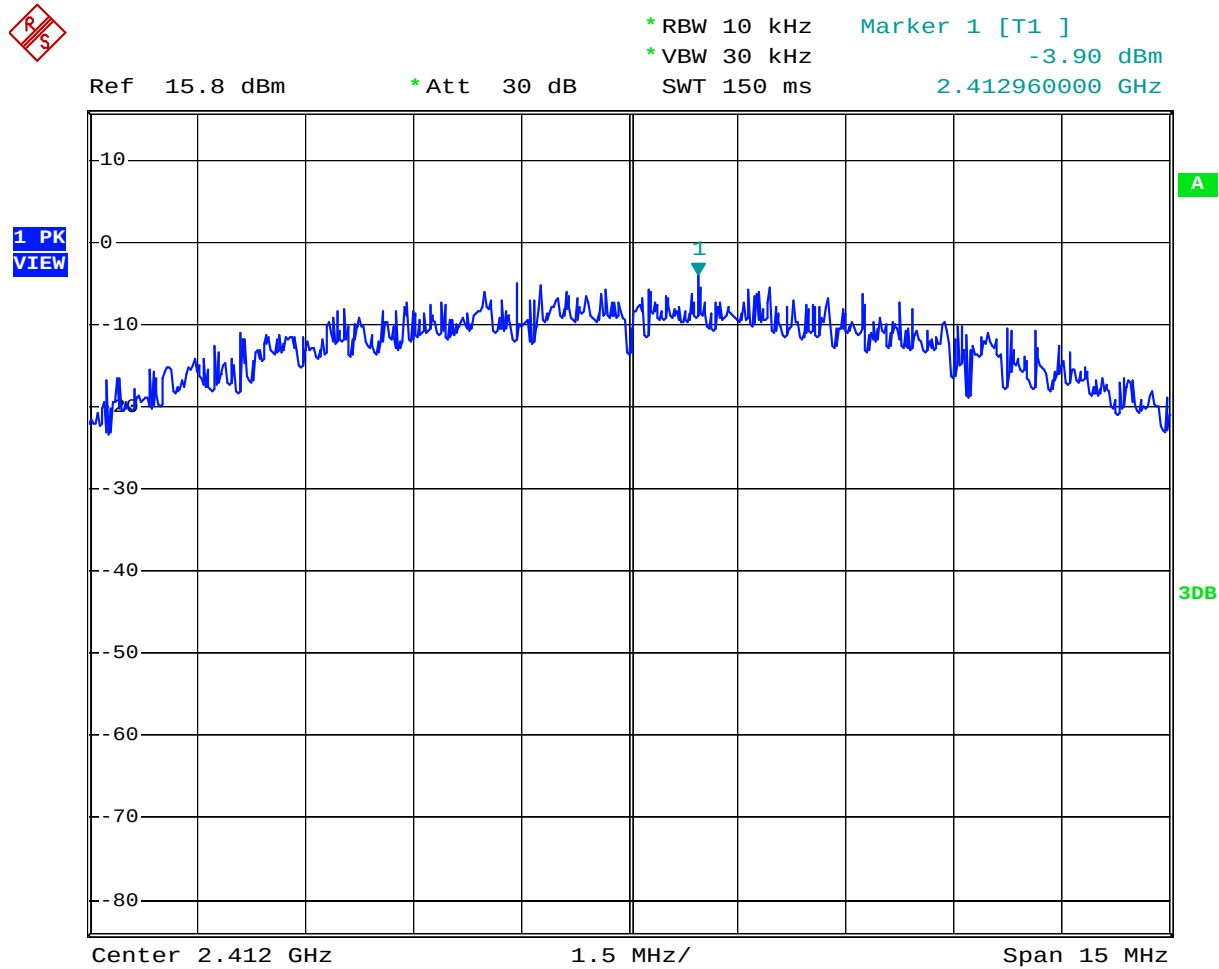


Date: 22.APR.2013 14:49:20

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4. 802.11b at 11Mbps of CH01

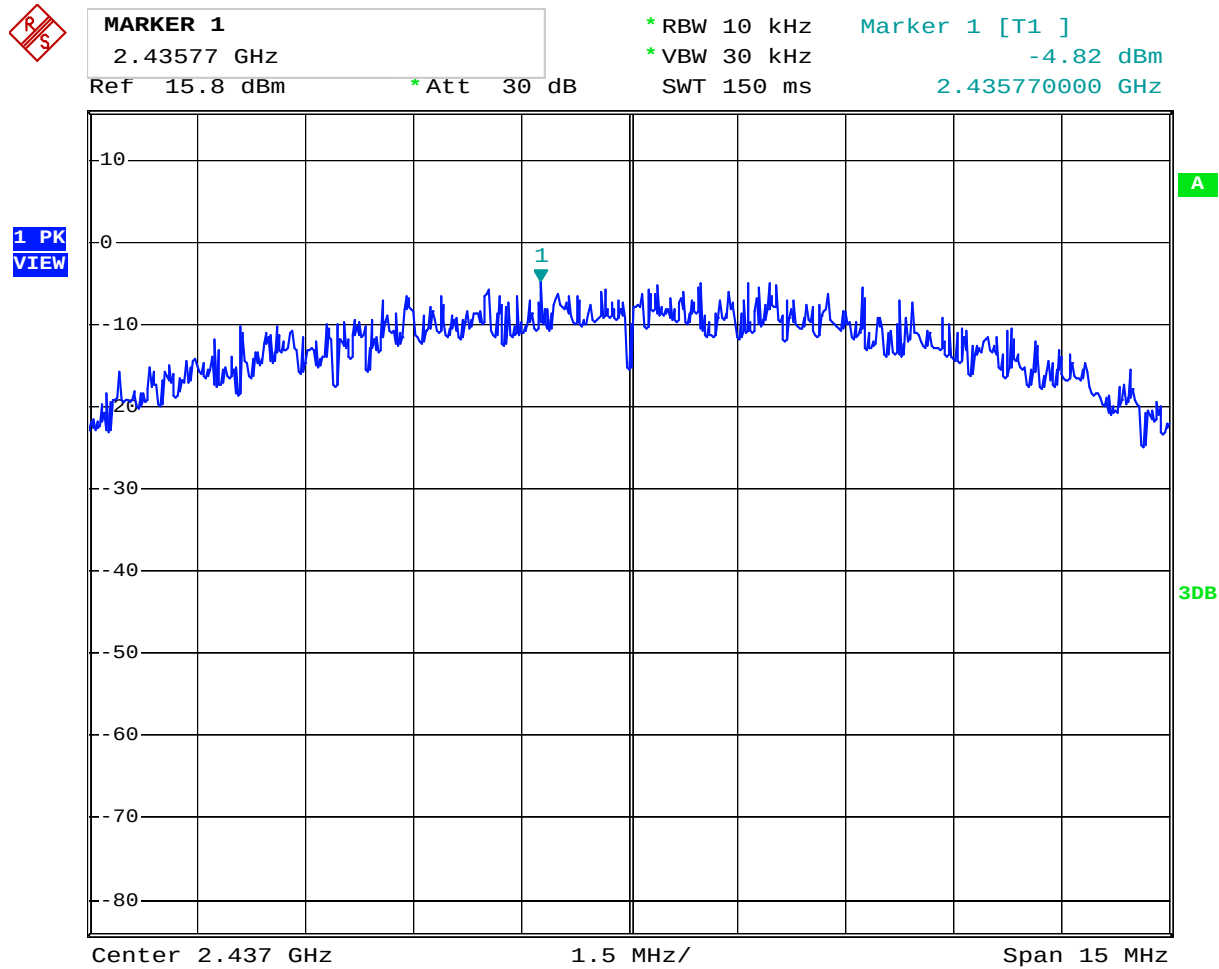


Date: 22.APR.2013 14:52:46

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5. 802.11b at 11Mbps of CH06

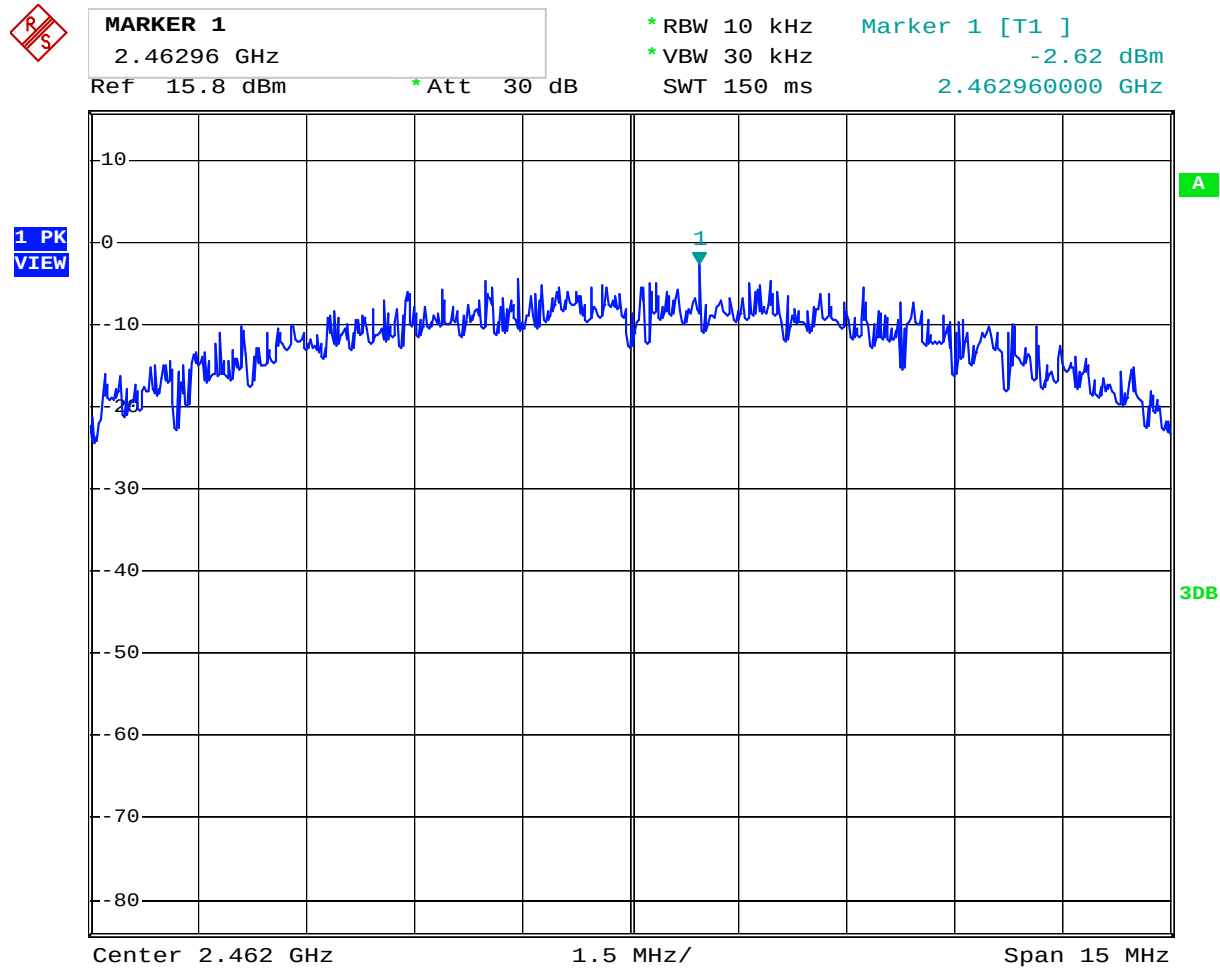


Date: 22.APR.2013 14:53:23

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6. 802.11b at 11Mbps of CH11

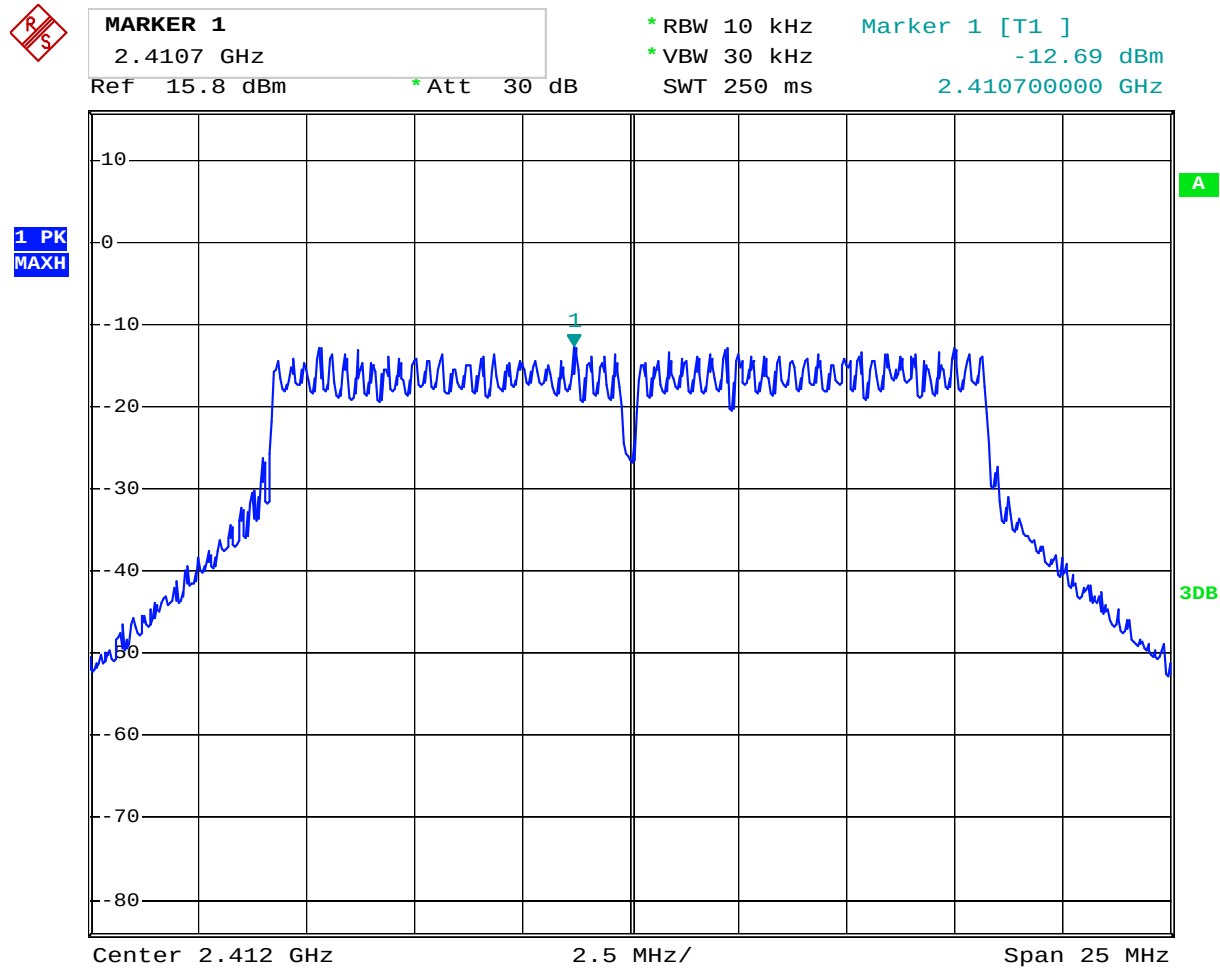


Date: 22.APR.2013 14:49:46

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7. 802.11g at 6Mbps of CH1

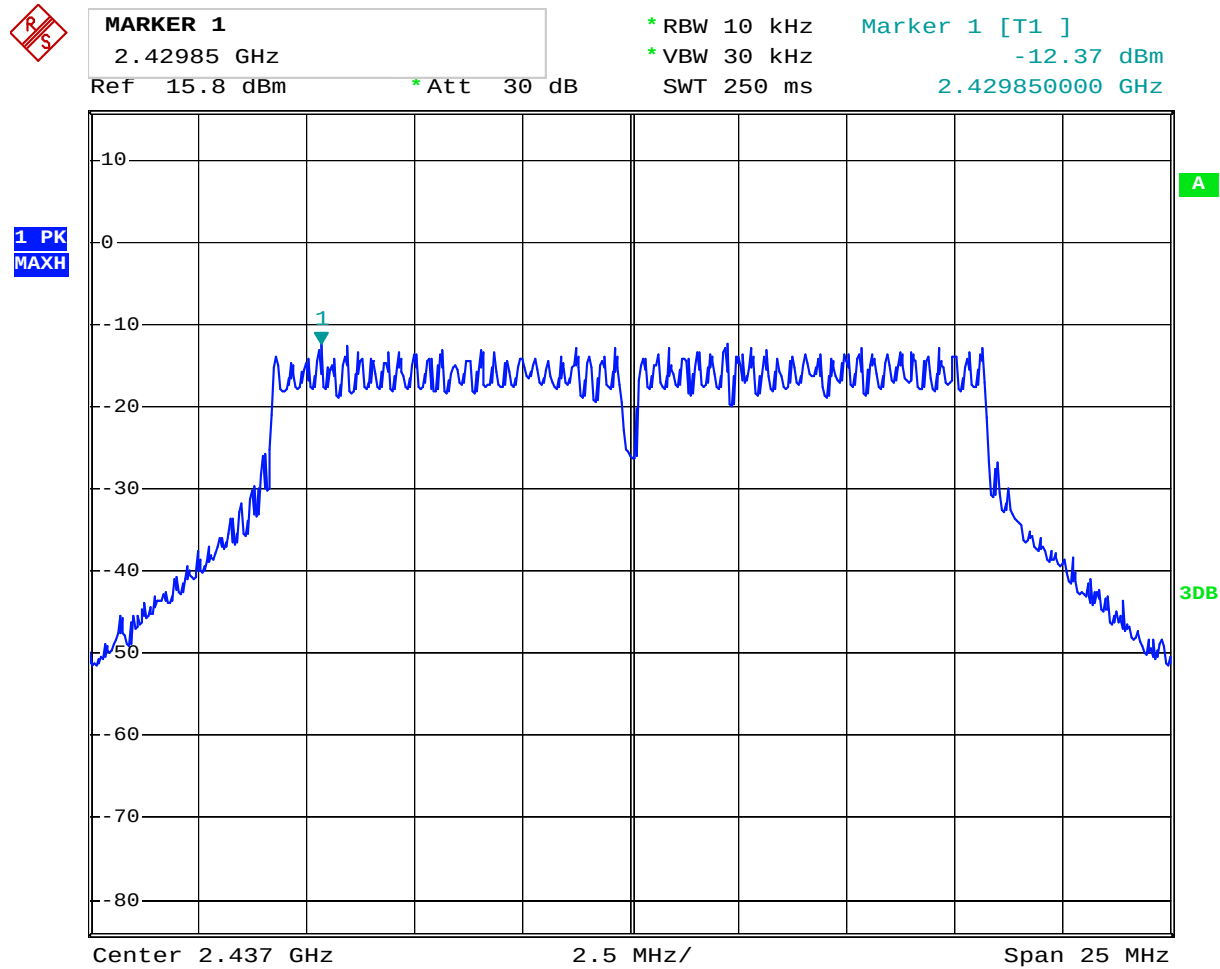


Date: 22.APR.2013 14:54:09

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8. 802.11g at 6Mbps of CH6

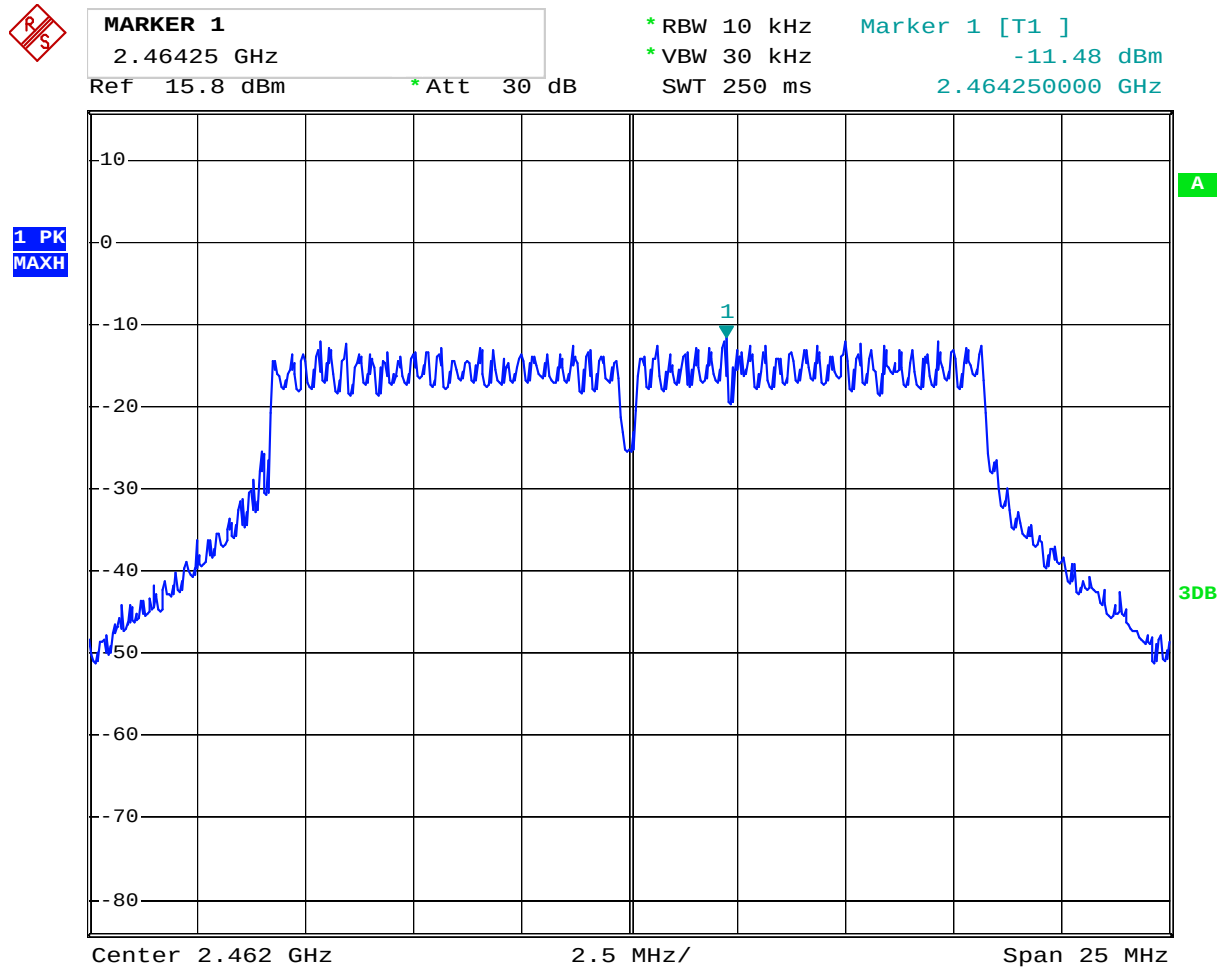


Date: 22.APR.2013 14:54:32

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9. 802.11g at 6Mbps of CH11

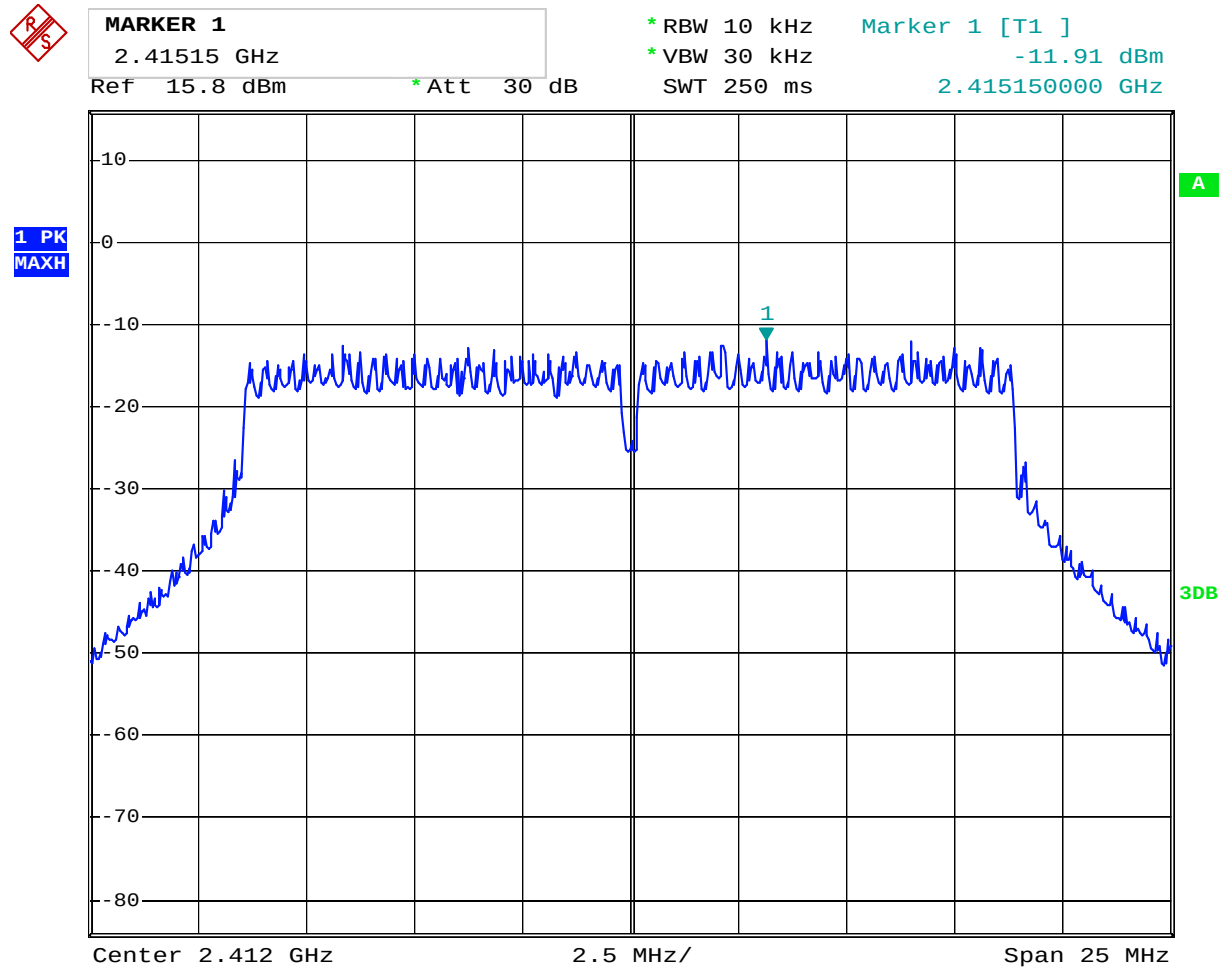


Date: 22.APR.2013 14:54:53

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10. 802.11n at HT20 of CH01 6.5Mbps

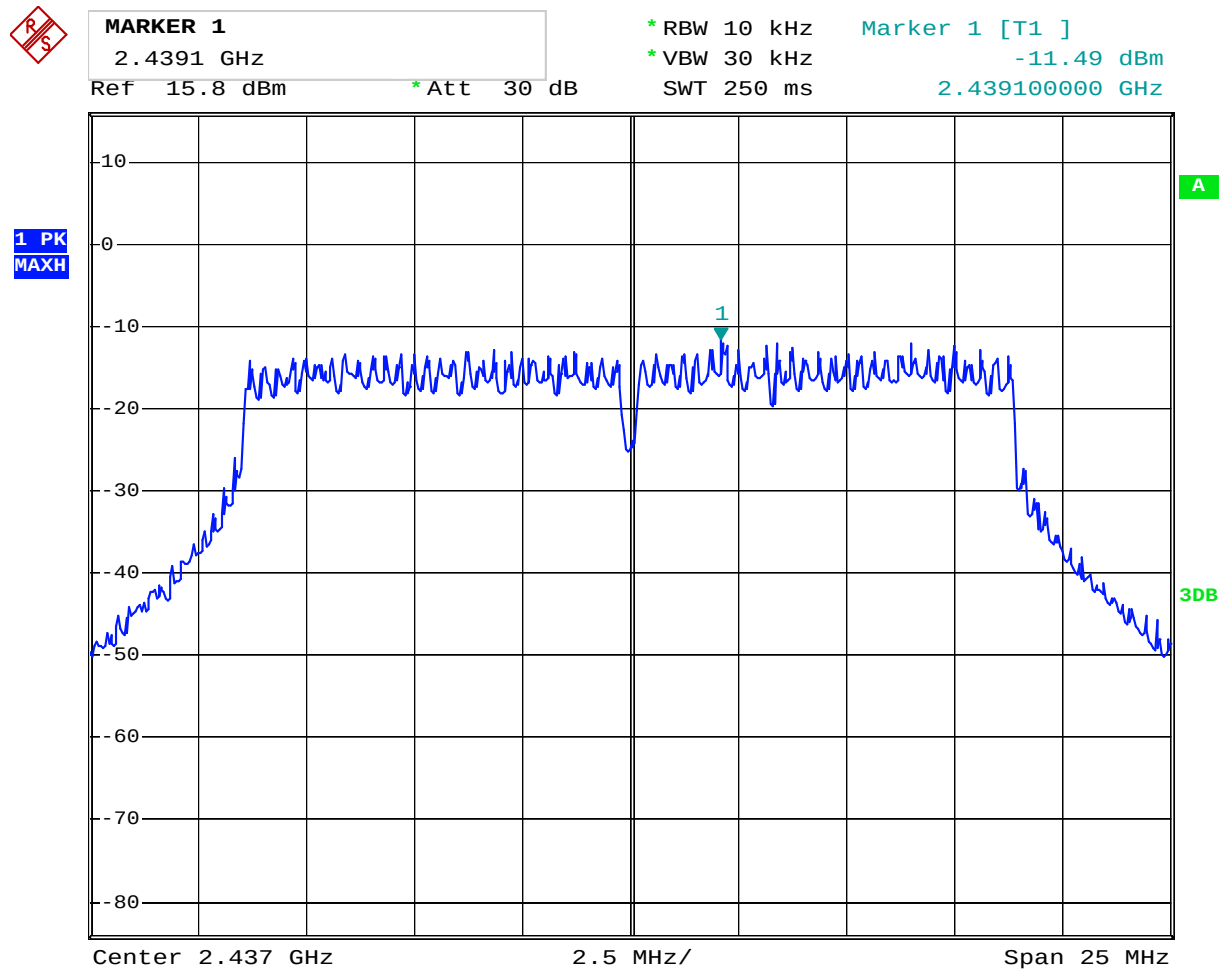


Date: 22.APR.2013 14:56:48

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11. 802.11n at HT20 of CH06 6.5Mbps

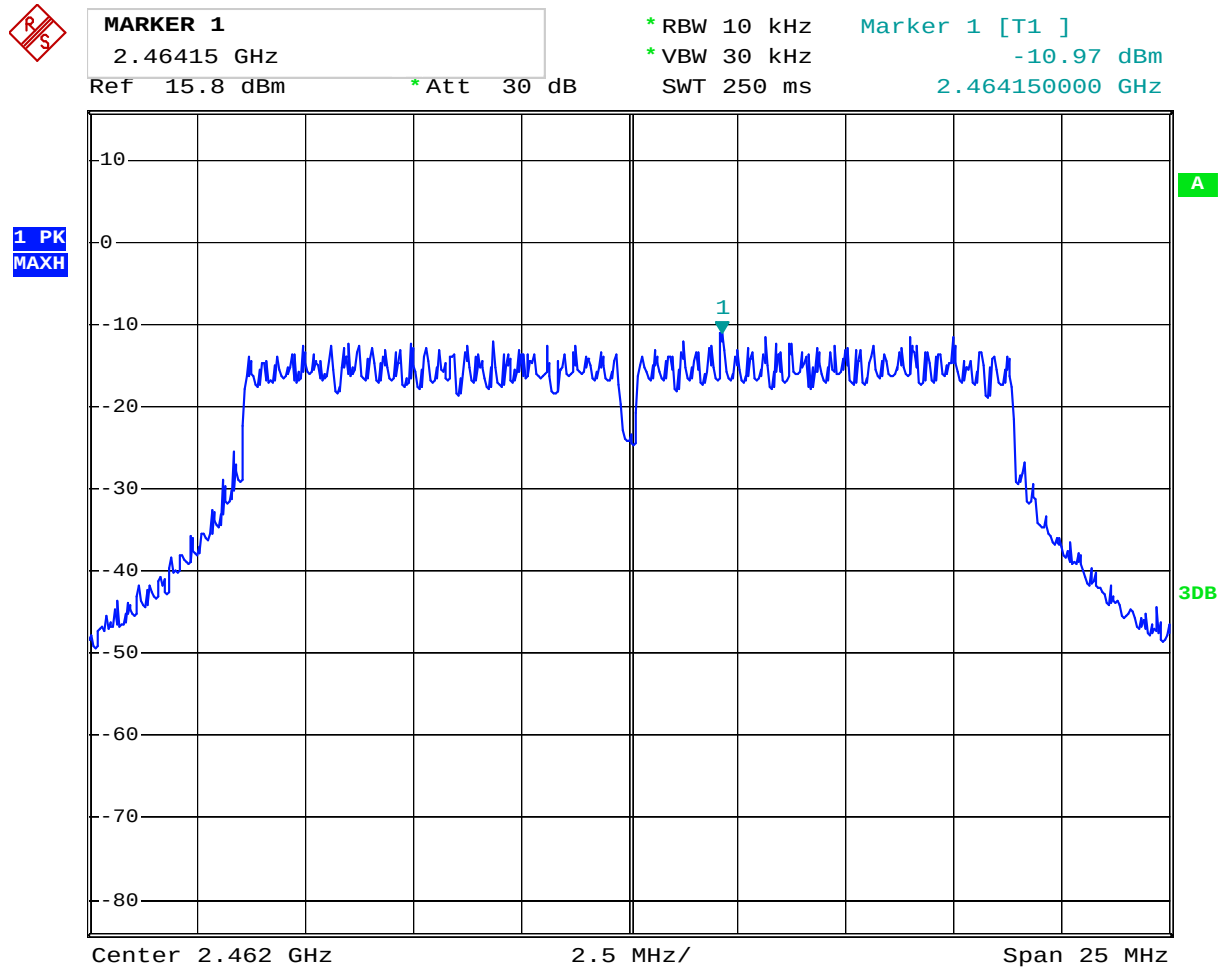


Date: 22.APR.2013 14:56:03

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12. 802.11n at HT20 of CH11 6.5Mbps



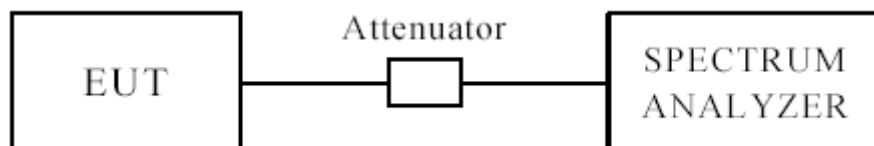
Date: 22.APR.2013 14:55:23

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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=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

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

10.4 Test Result

Note: for conducted spurious emissions according to PART 15.247 (d), the frequency range 10MHz- 25GHz was investigated, and it met the FCC rule. Only the worse plots were recorded. Please see next pages.

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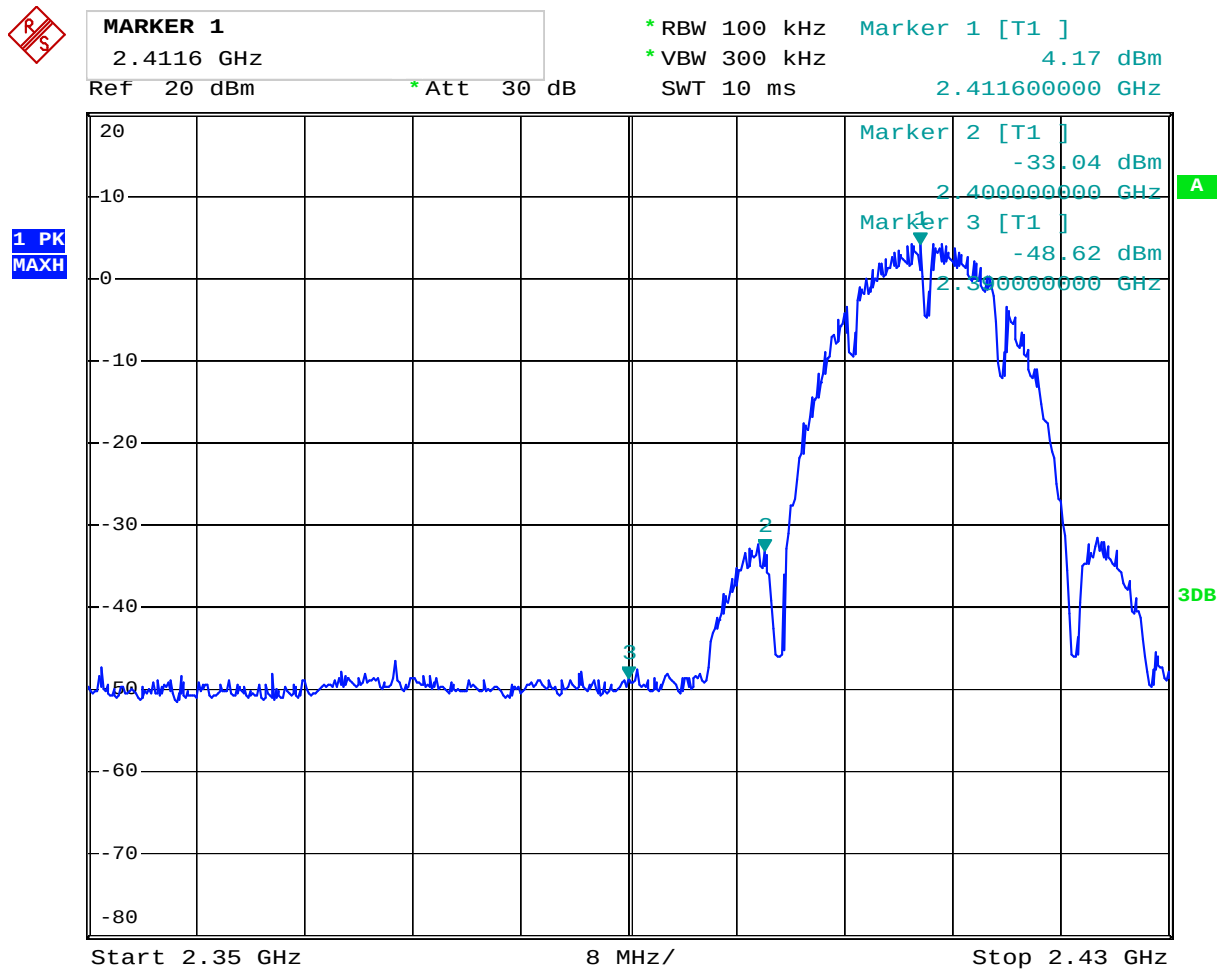
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For 802.11b mode
CH01 at 1Mbps
Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 30.MAY.2013 17:18:13

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CH01 at 1Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:

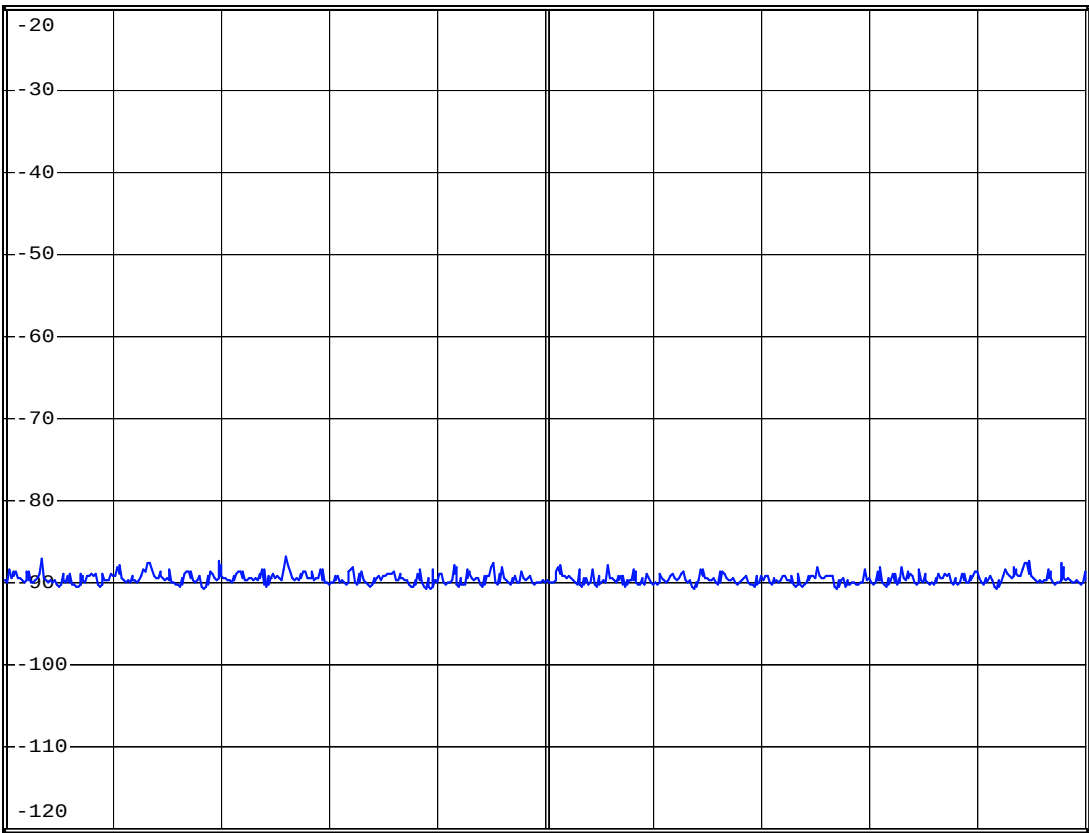


* RBW 100 kHz
* VBW 300 kHz
SWT 2.5 ms

Ref -20 dBm

* Att 0 dB

1 PK
MAXH



Start 10 MHz

2 MHz/

Stop 30 MHz

Date: 30.MAY.2013 19:51:53

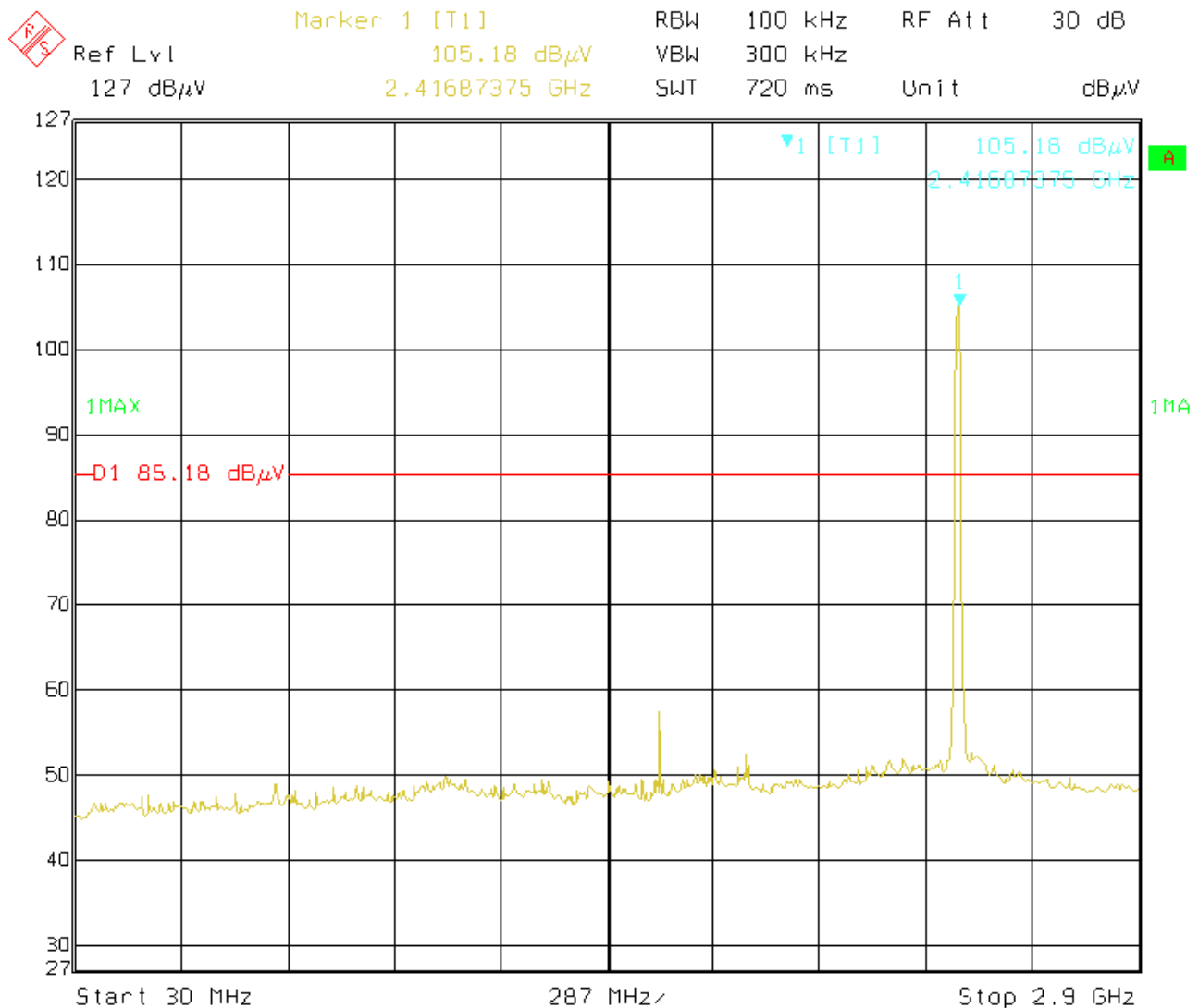
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CH01 at 1Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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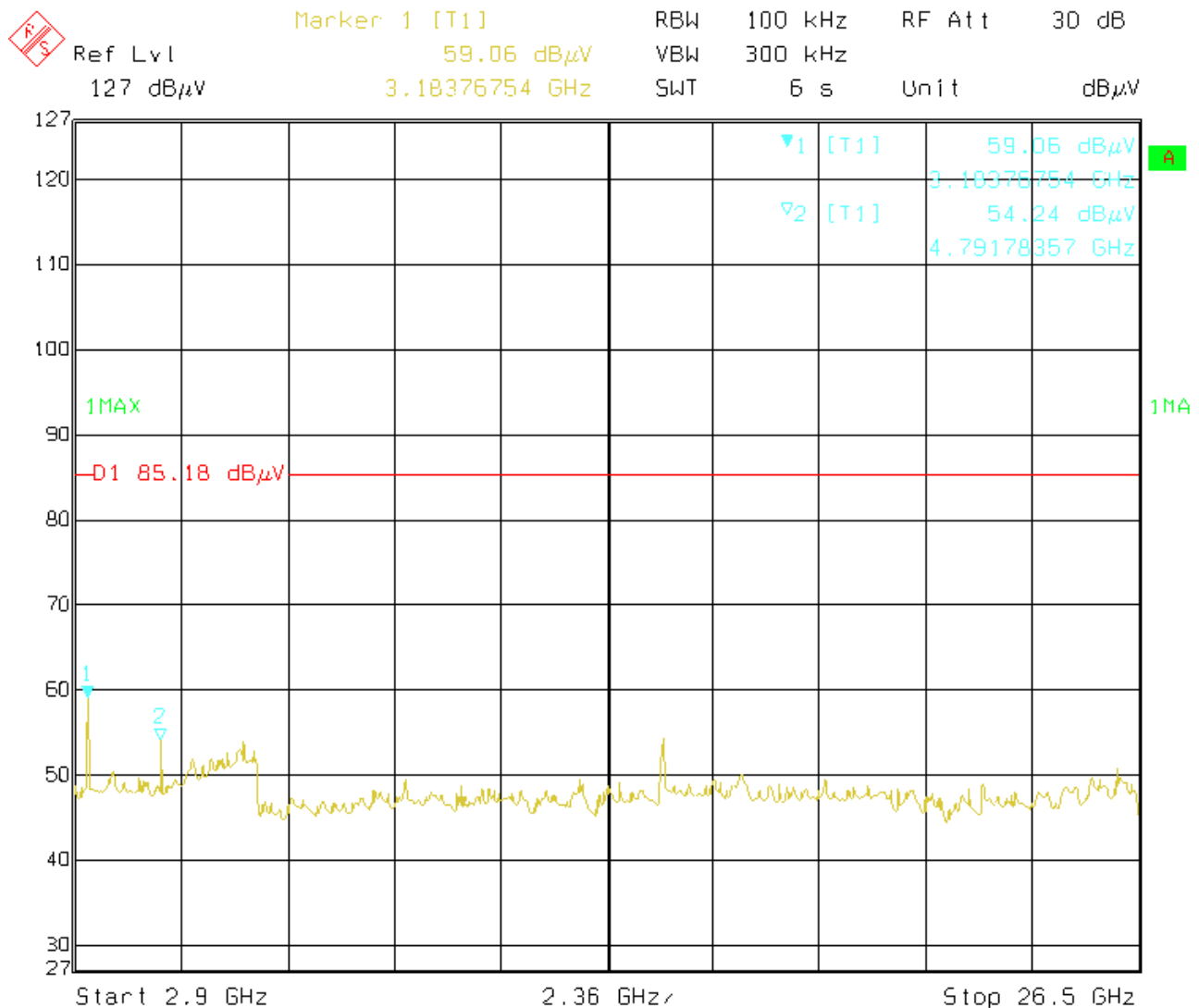


CH01 at 1Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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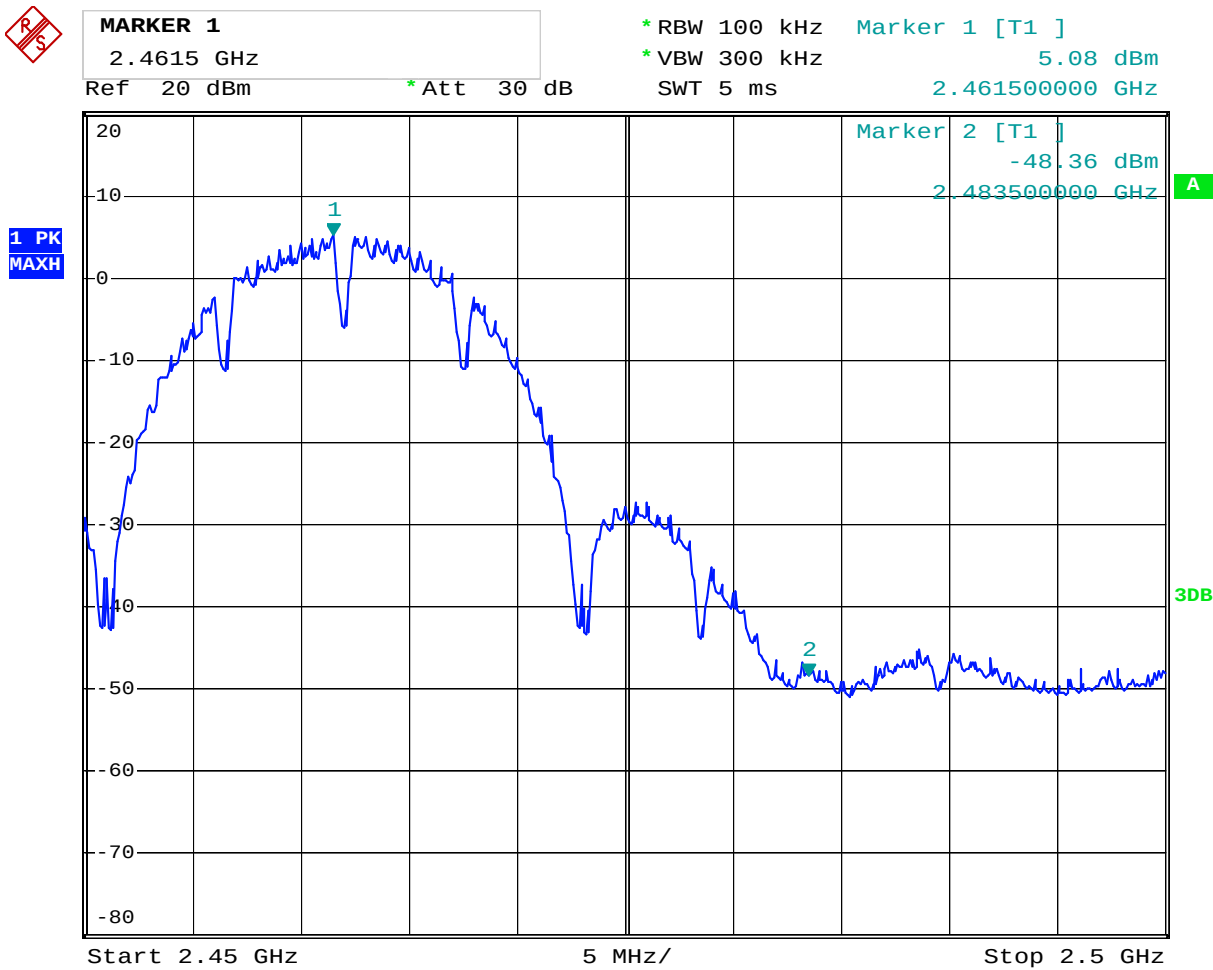


CH11 at 1Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 30.MAY.2013 17:39:29

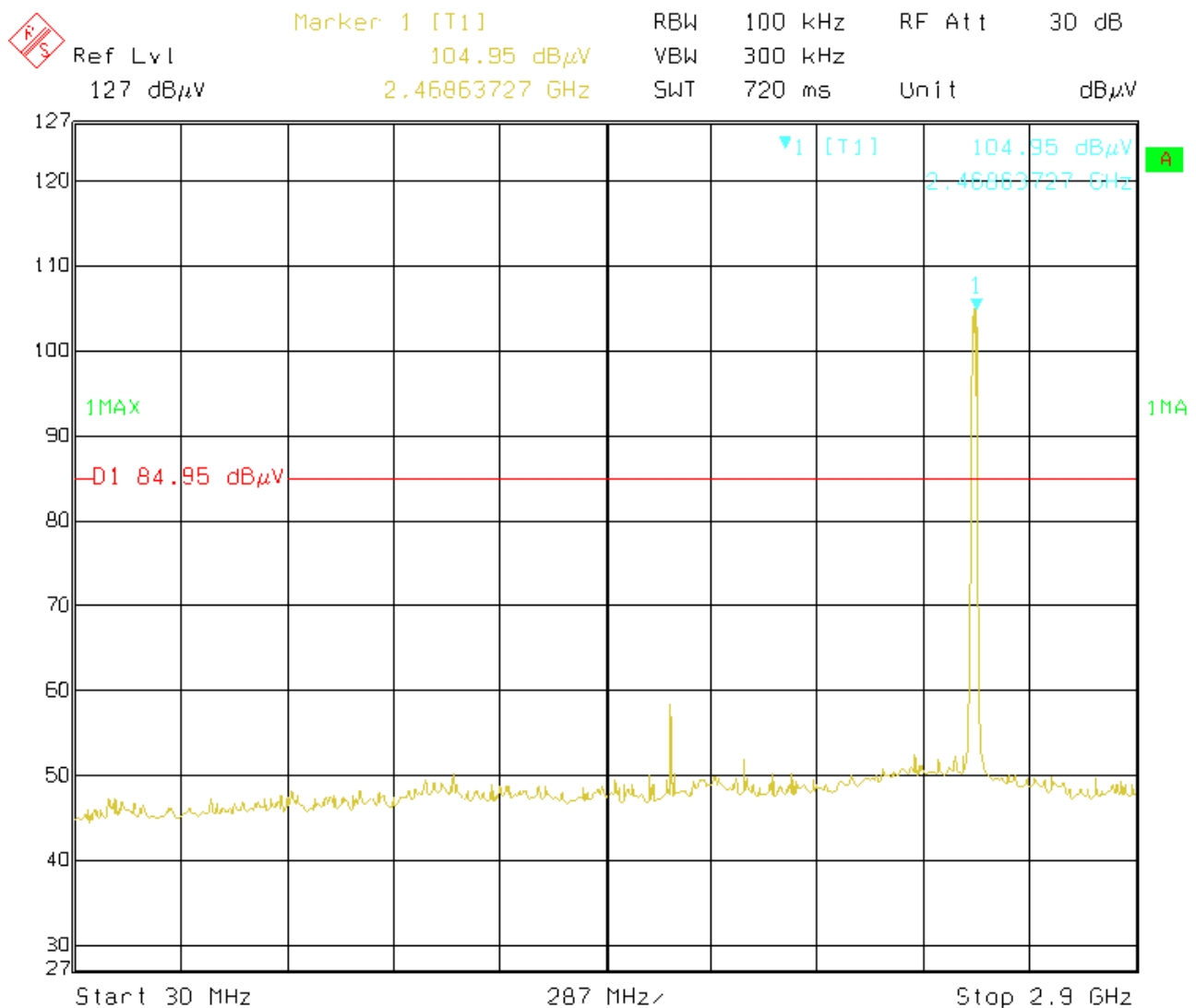
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CH11 at 1Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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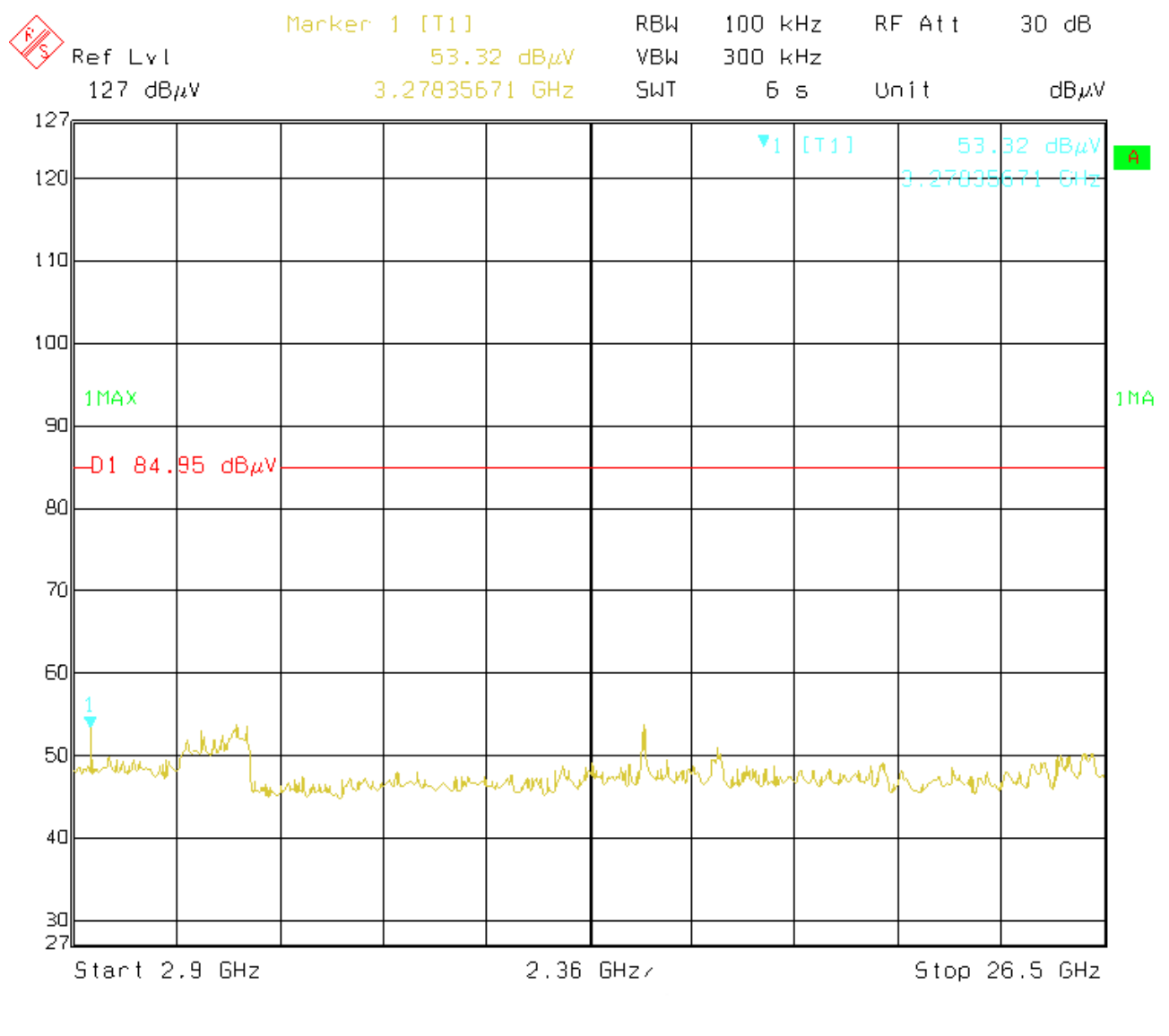


CH11 at 1Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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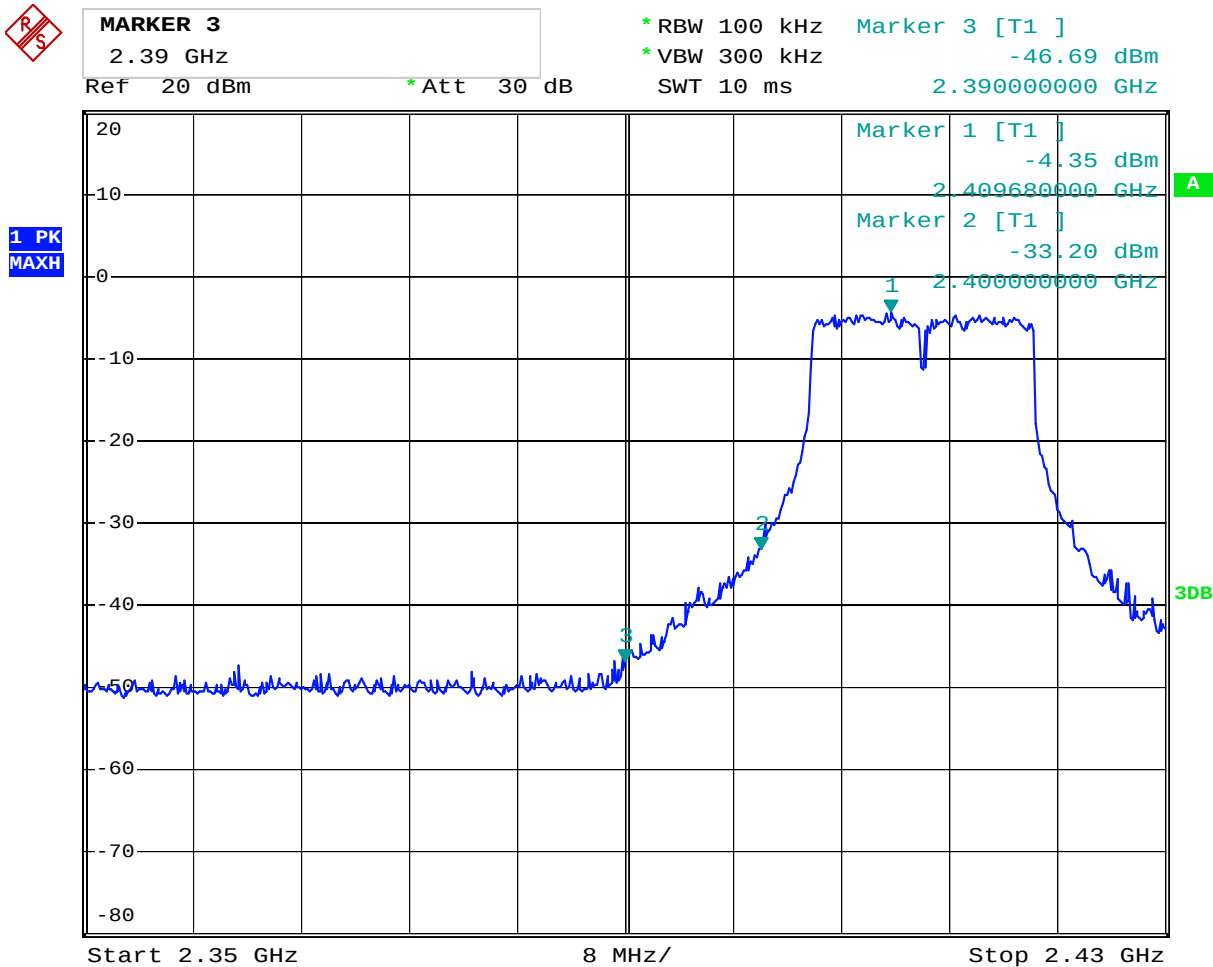
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For 802.11g mode
CH01 at 6Mbps
Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 30.MAY.2013 17:25:37

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CH01 at 6Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:

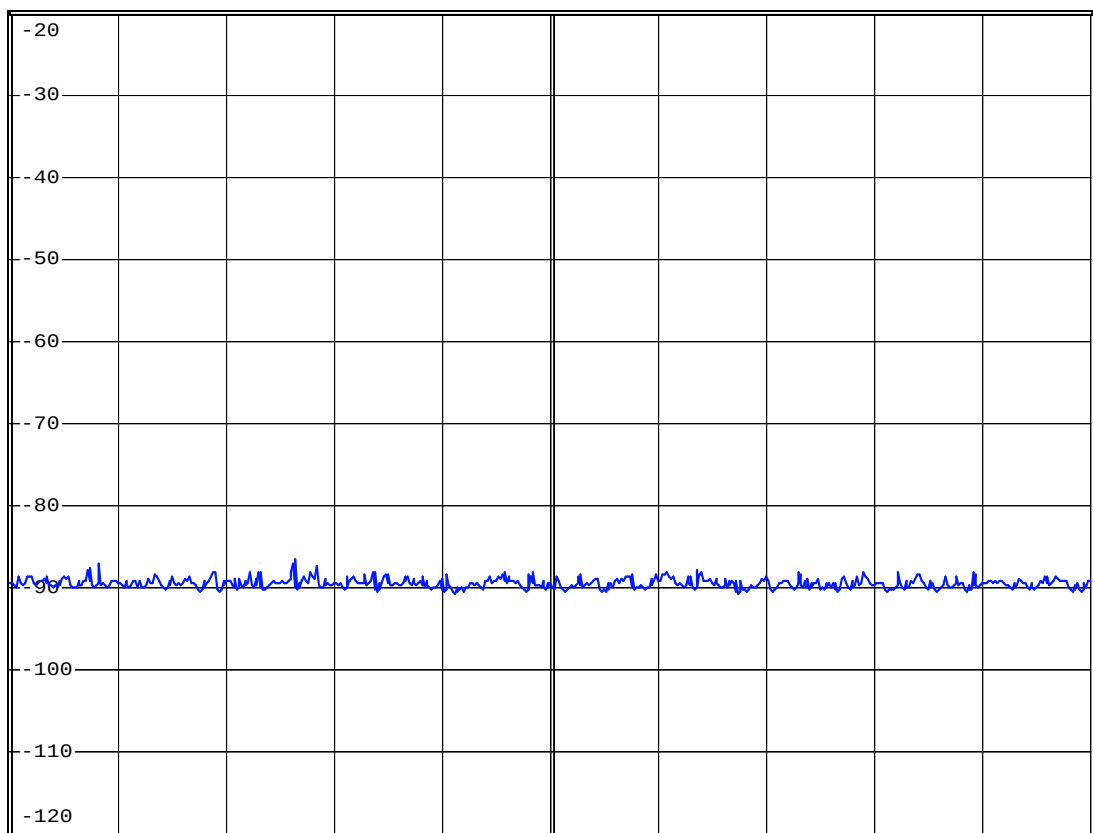


* RBW 100 kHz
* VBW 300 kHz
SWT 2.5 ms

Ref -20 dBm

* Att 0 dB

1 PK
MAXH



Start 10 MHz

2 MHz/

Stop 30 MHz

Date: 30.MAY.2013 19:52:41

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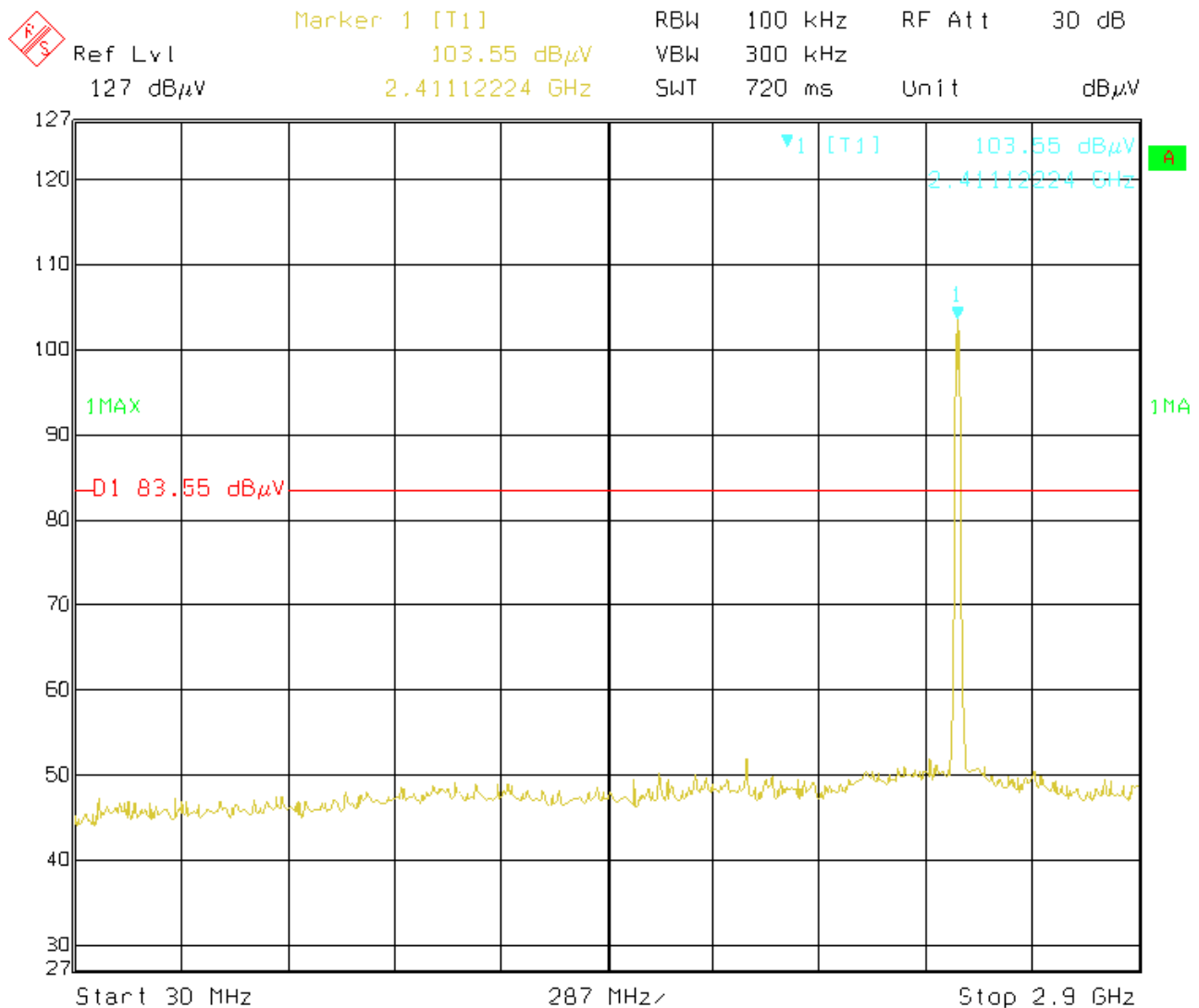


CH01 at 6Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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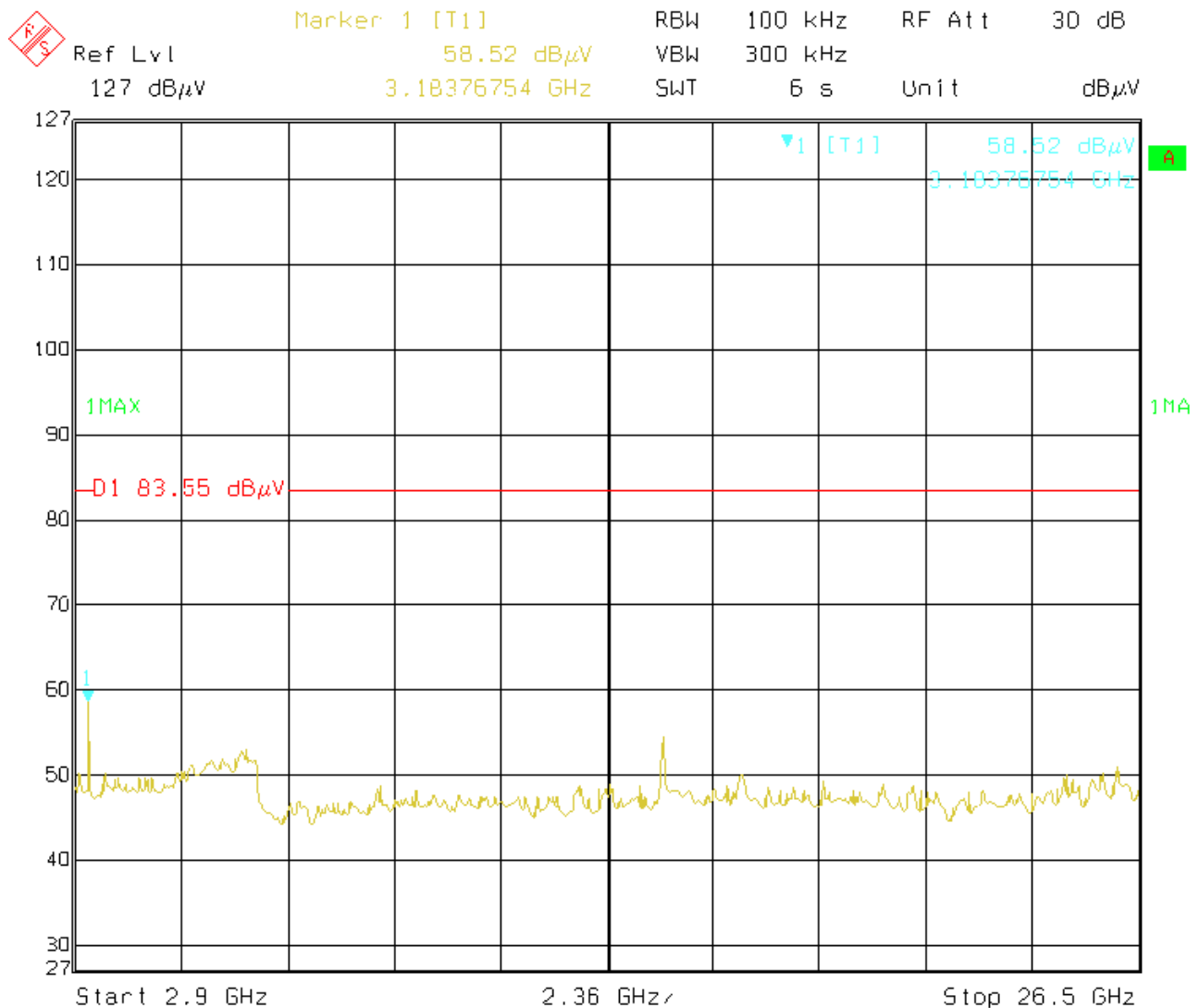


CH01 at 6Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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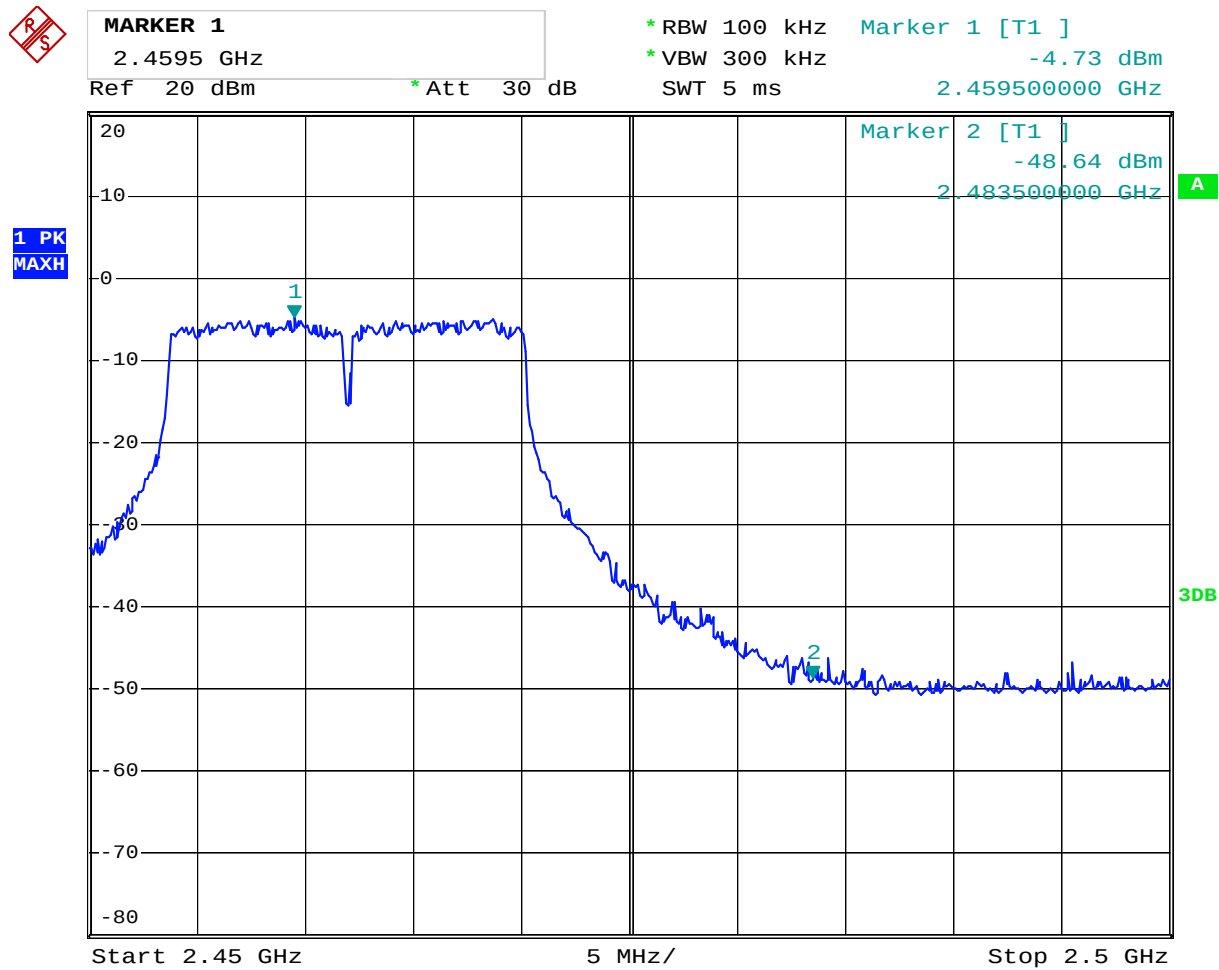


CH11 at 6Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Hmid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 30.MAY.2013 17:36:04

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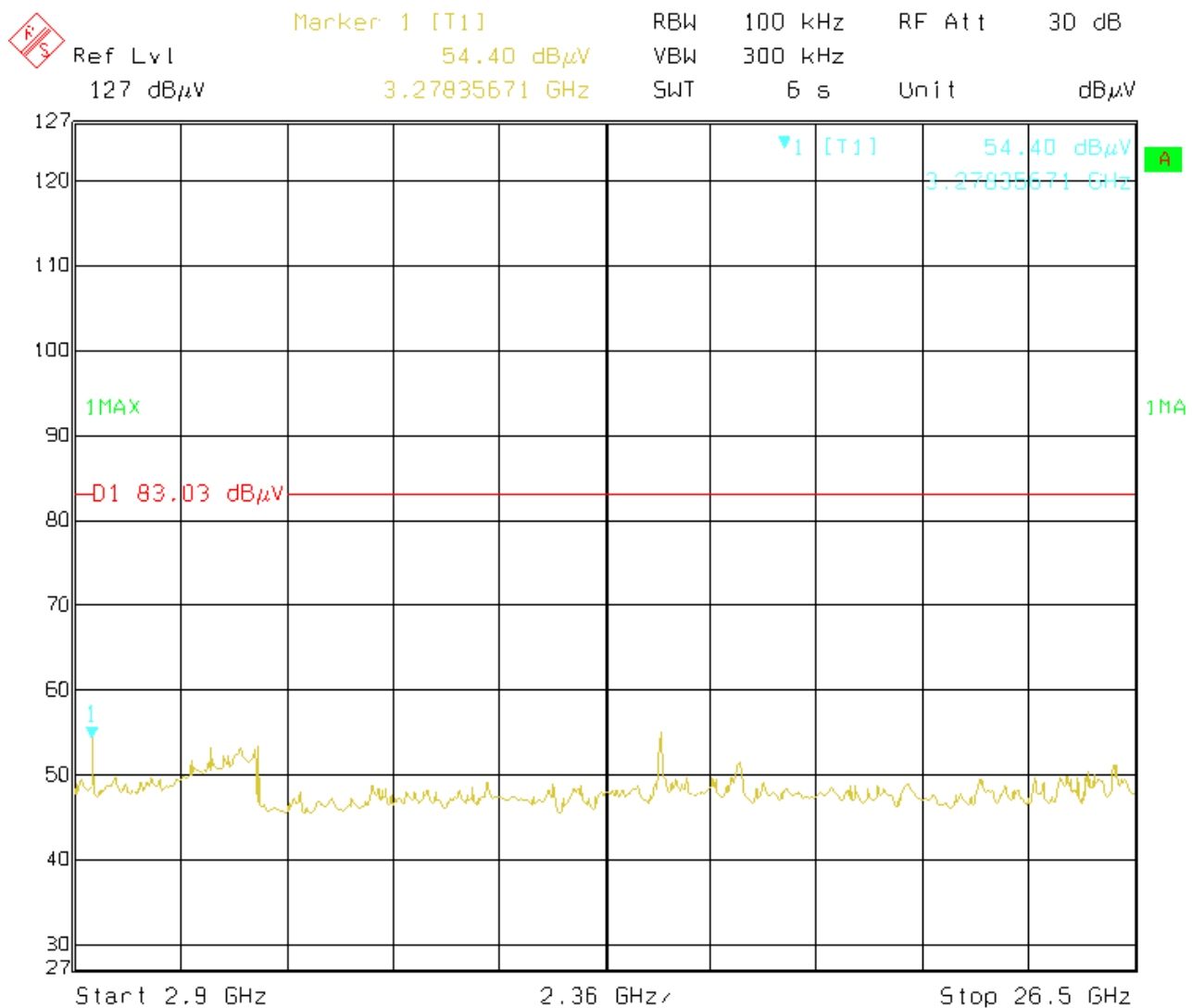


CH11 at 6Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Hmid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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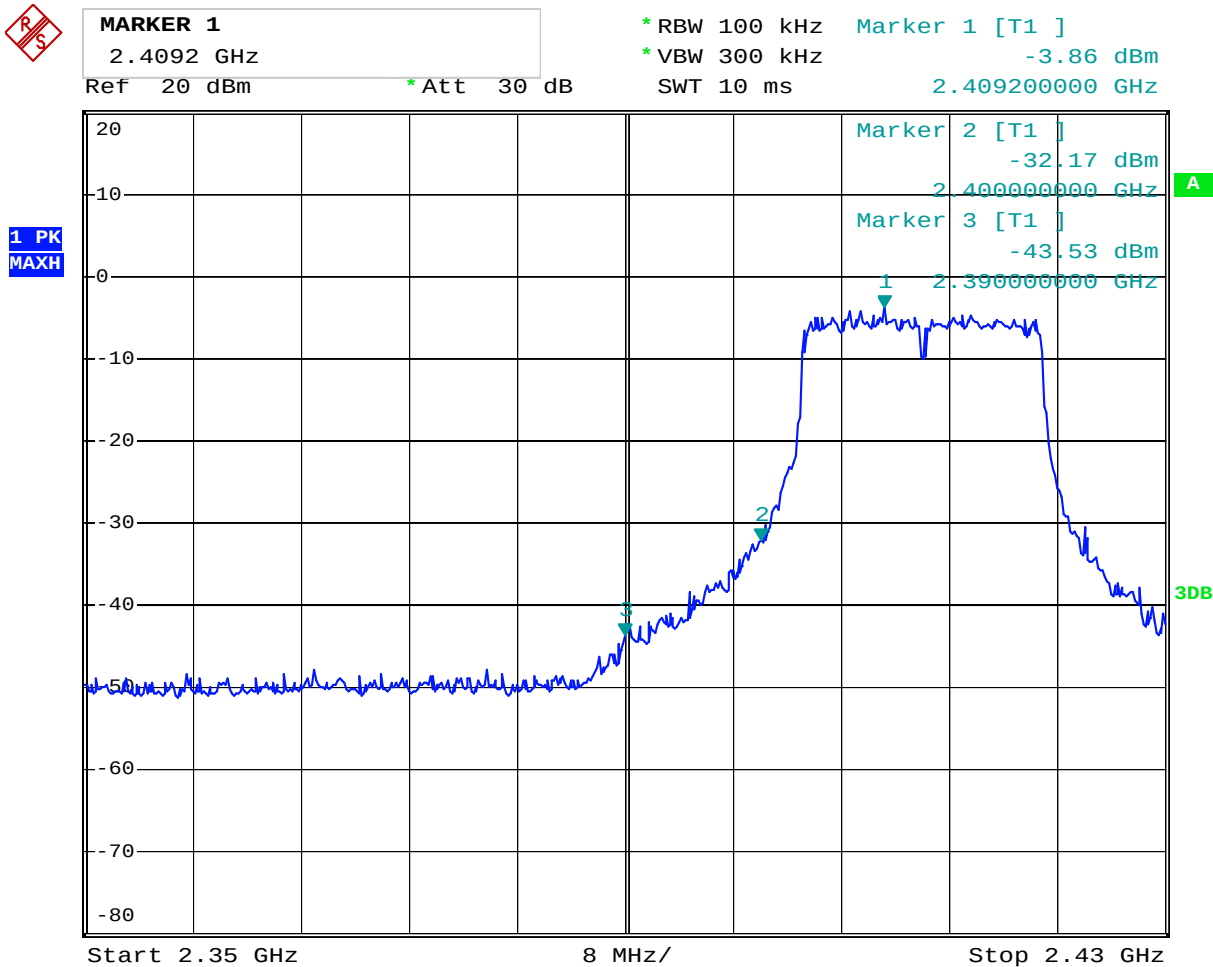


For 802.11n mode
CH01 at HT20 6.5Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 30.MAY.2013 17:26:17

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CH01 at HT20 6.5Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:

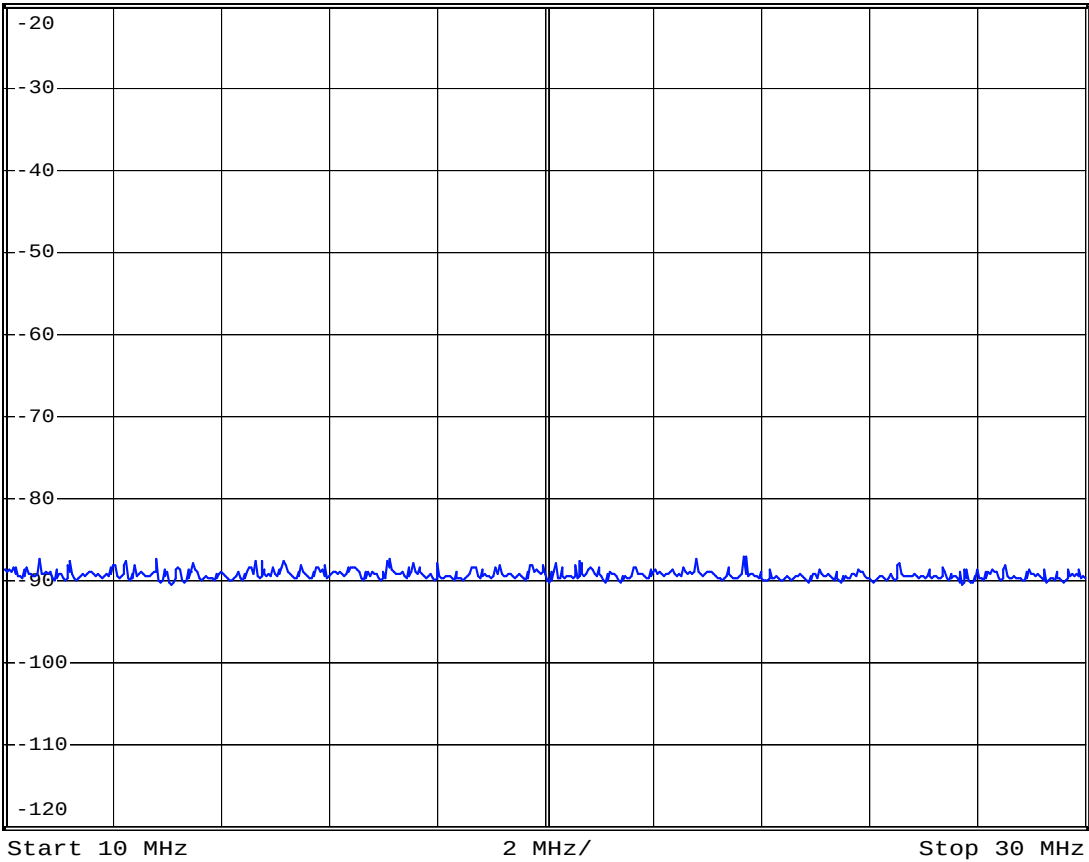


* RBW 100 kHz
* VBW 300 kHz
SWT 2.5 ms

Ref -20 dBm

* Att 0 dB

1 PK
MAXH



Date: 30.MAY.2013 19:53:47

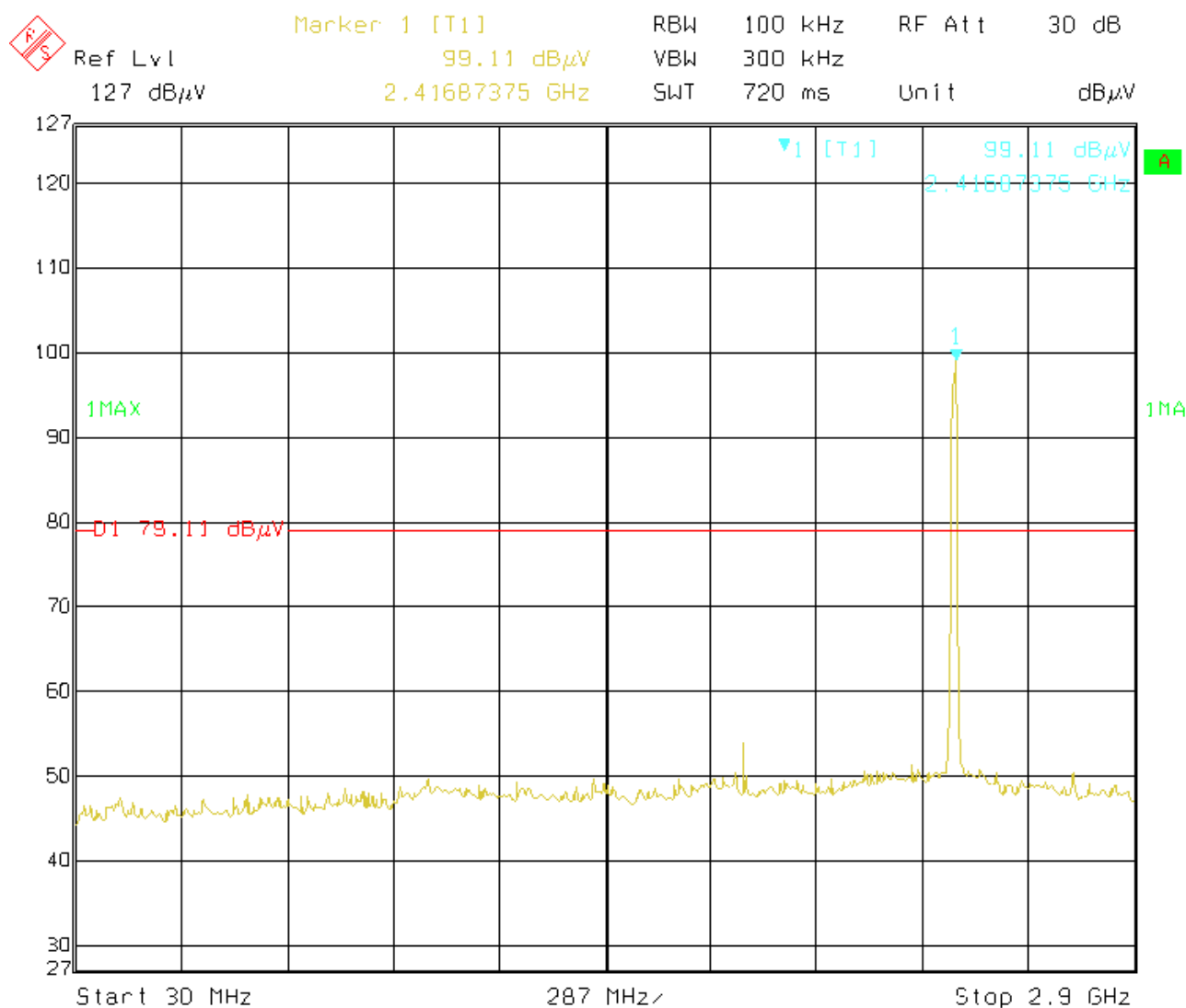
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CH01 at HT20 6.5Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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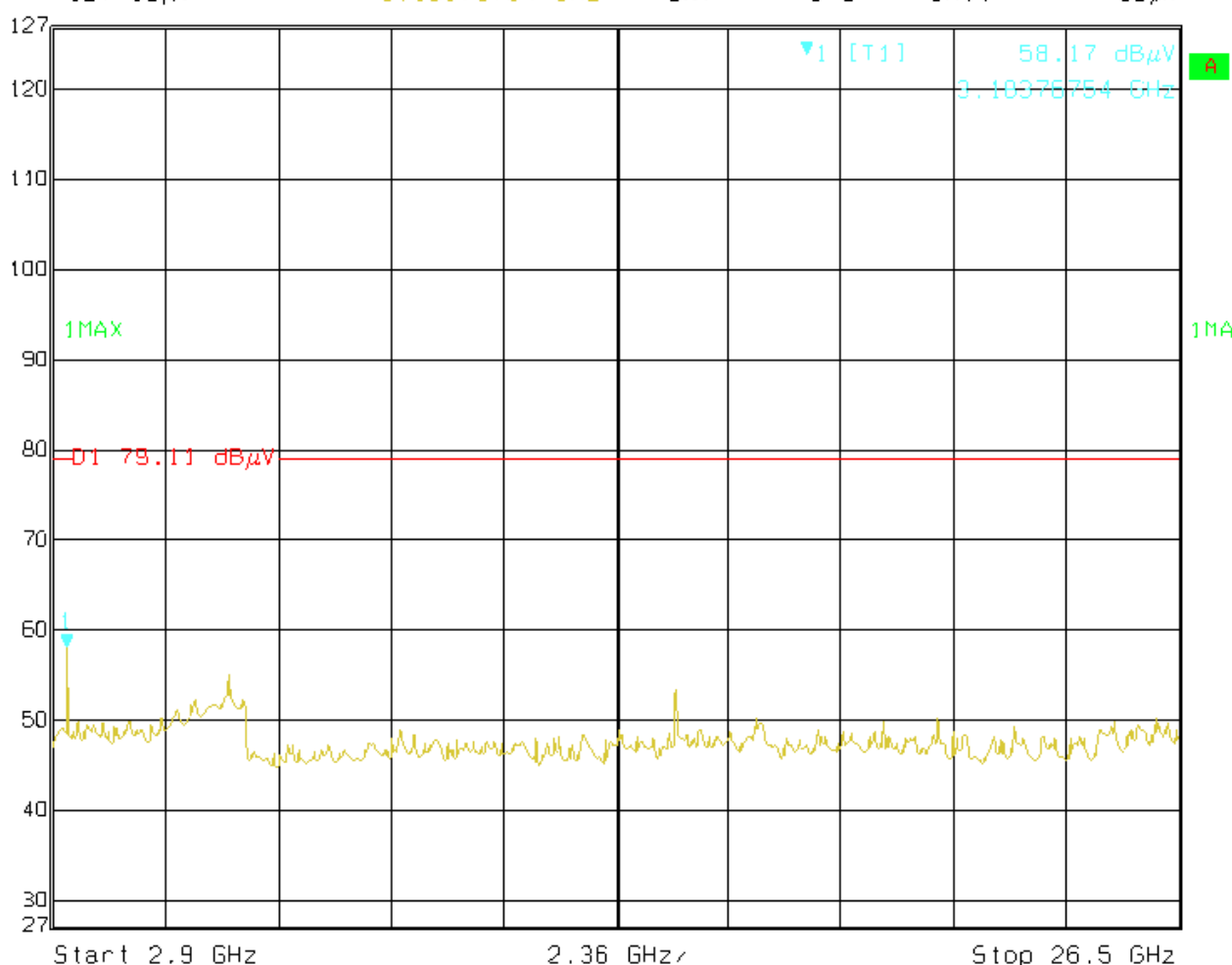
Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

RBW 100 kHz RF Att 30 dB

VBW 300 kHz

SWT	5 s	Unit	dB μ V
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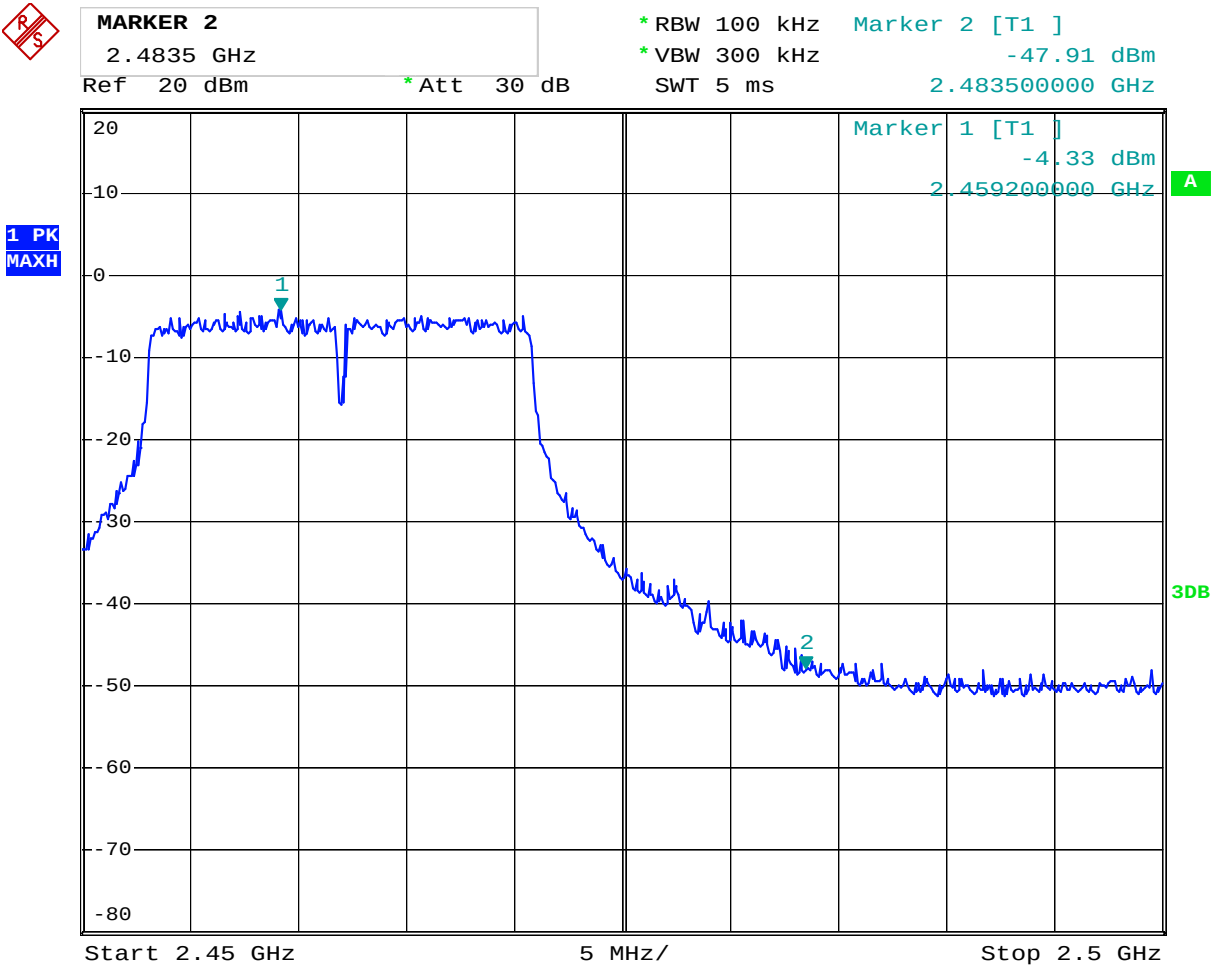


CH11 at HT20 6.5Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Hmid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 30.MAY.2013 17:34:54

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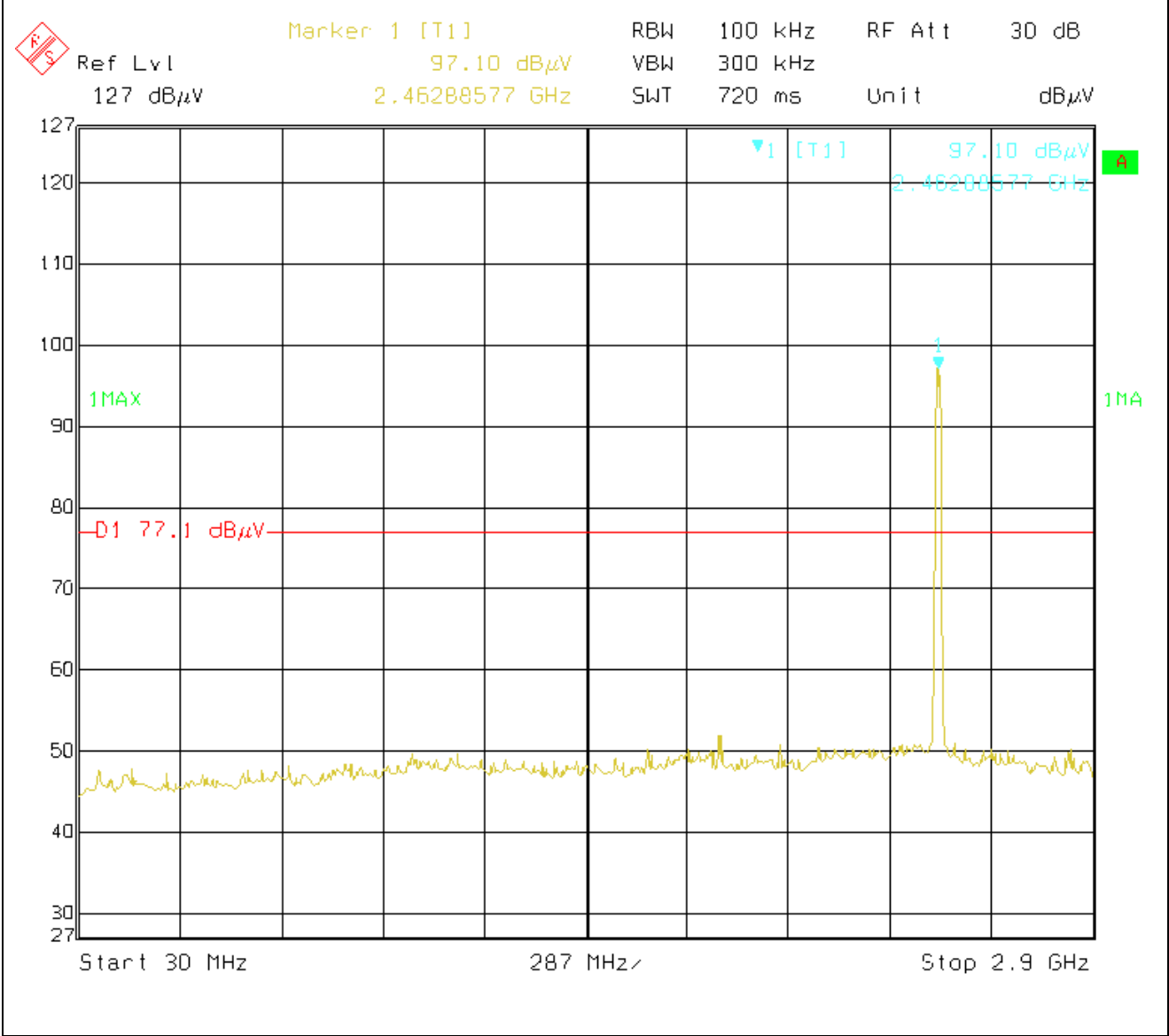


CH11 at HT20 6.5Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Hmid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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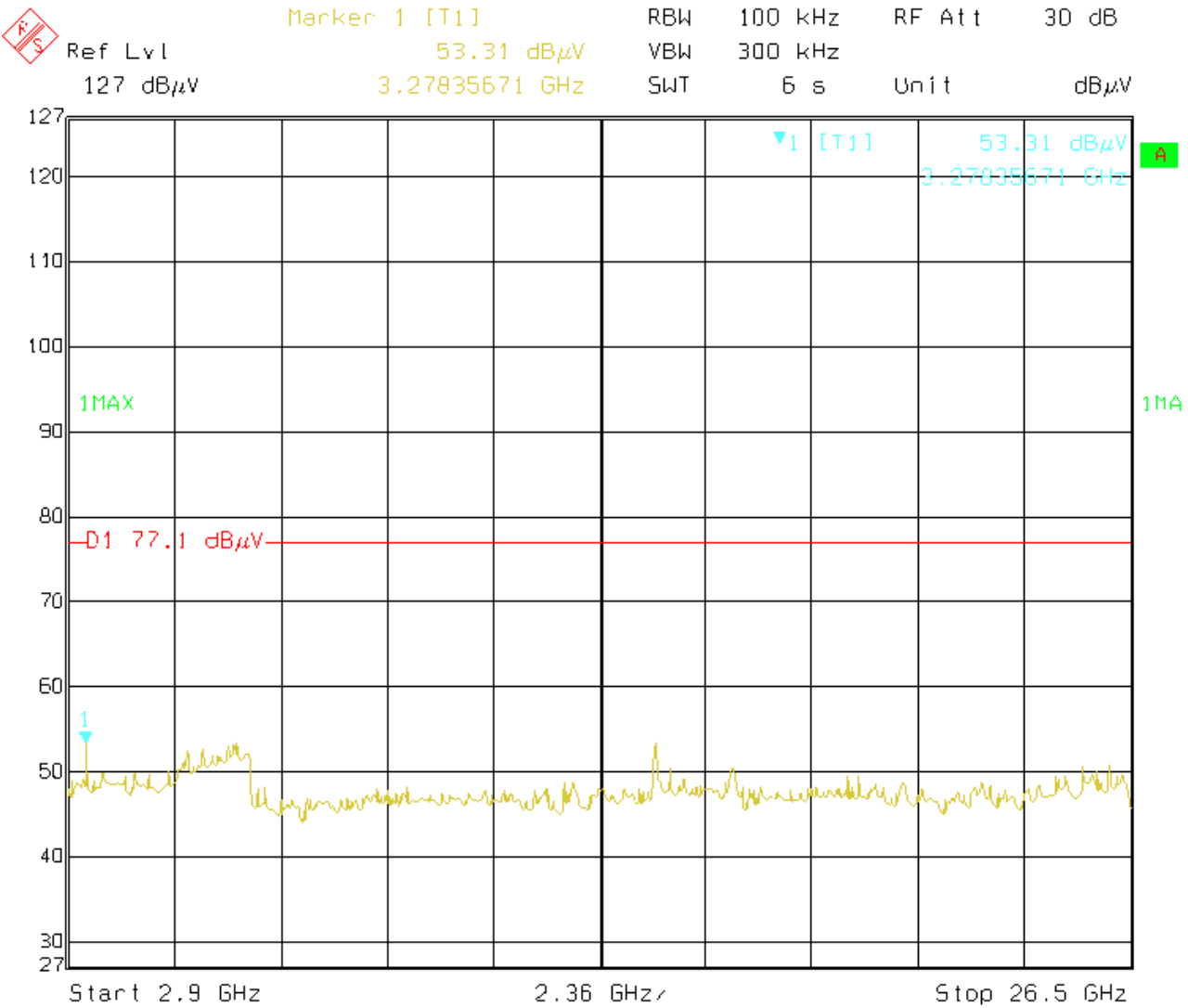


CH11 at HT20 6.5Mbps

Band-edge Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Hmid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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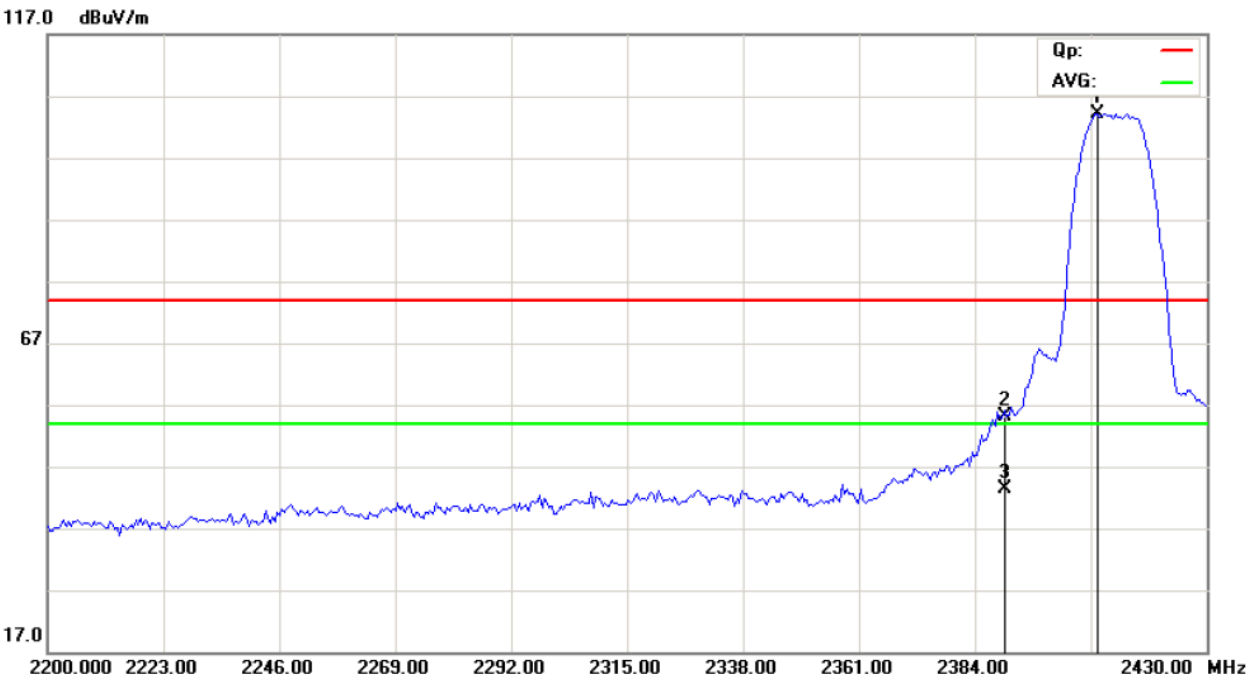


802.11b 1Mbps Low Channel

12.4 Restricted band Measurement

Product:	IP Camera		Model:	JPT3815W
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	55.18	Limit	74(dBμV/m)
	AV (dBμV/m)	43.29		54(dBμV/m)

Test Figure: Horizontal



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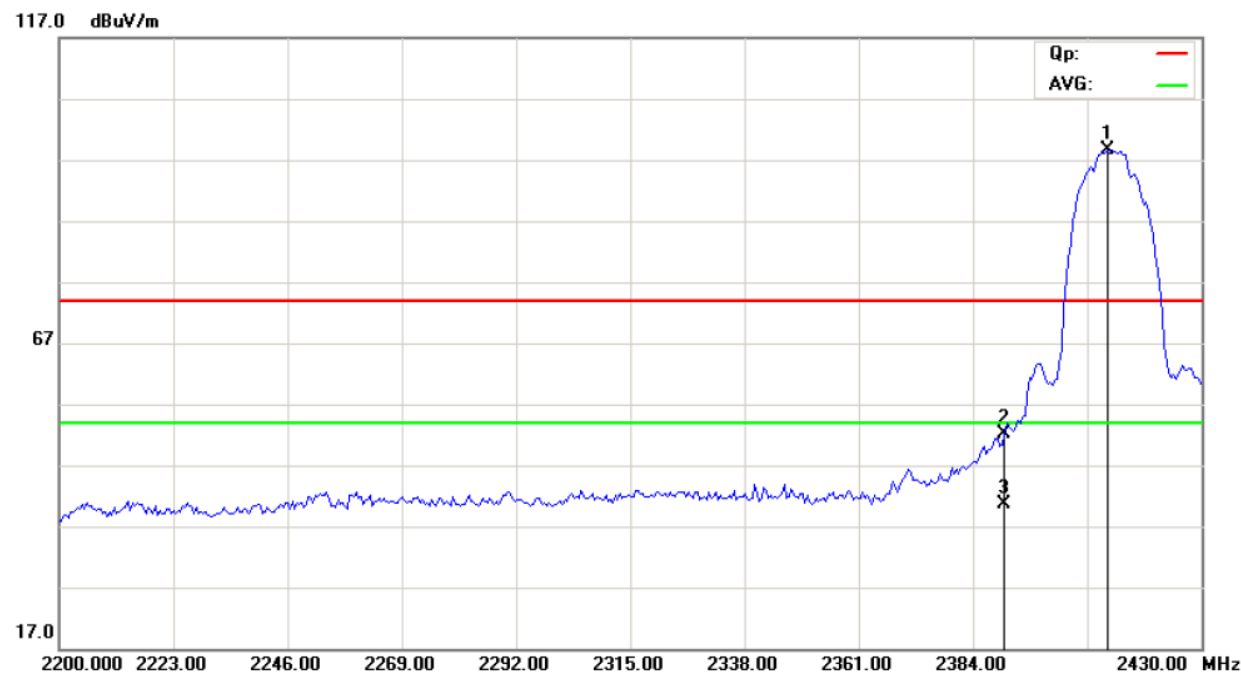


802.11b 1Mbps Low Channel

12.4 Restricted band Measurement

Product:	IP Camera		Model:	JPT3815W
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	52.10	Limit	74(dBμV/m)
	AV (dBμV/m)	40.66		54(dBμV/m)

Test Figure: Vertical



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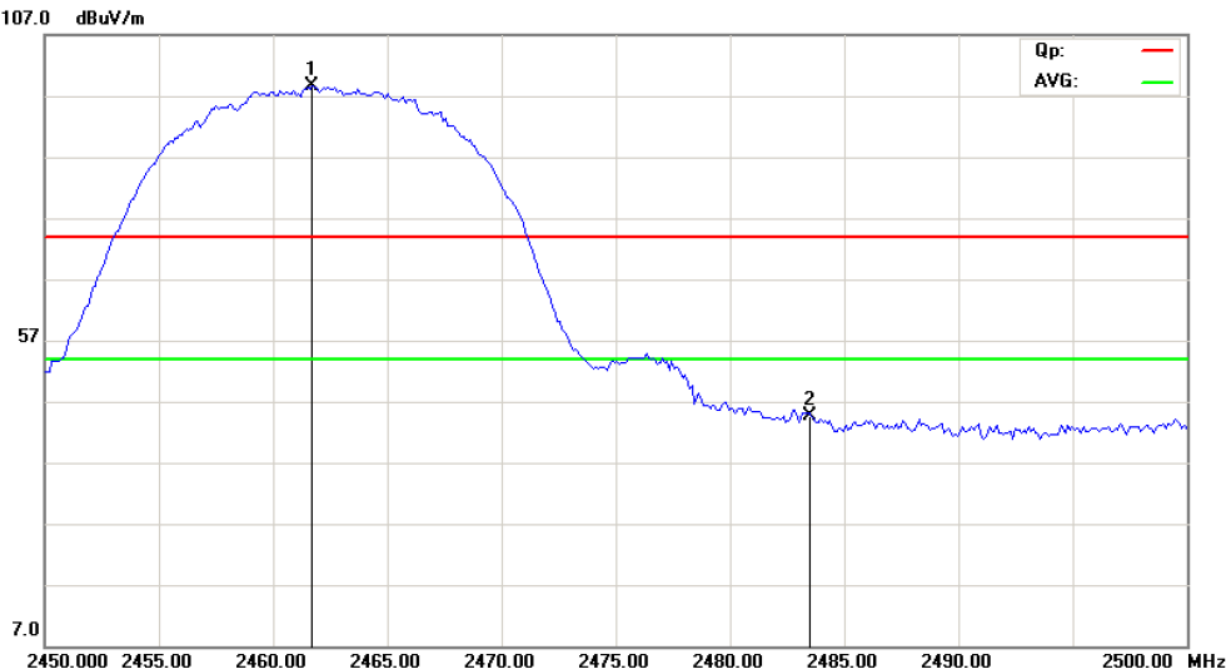


802.11b 1Mbps High Channel

12.4 Restricted band Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure: Horizontal



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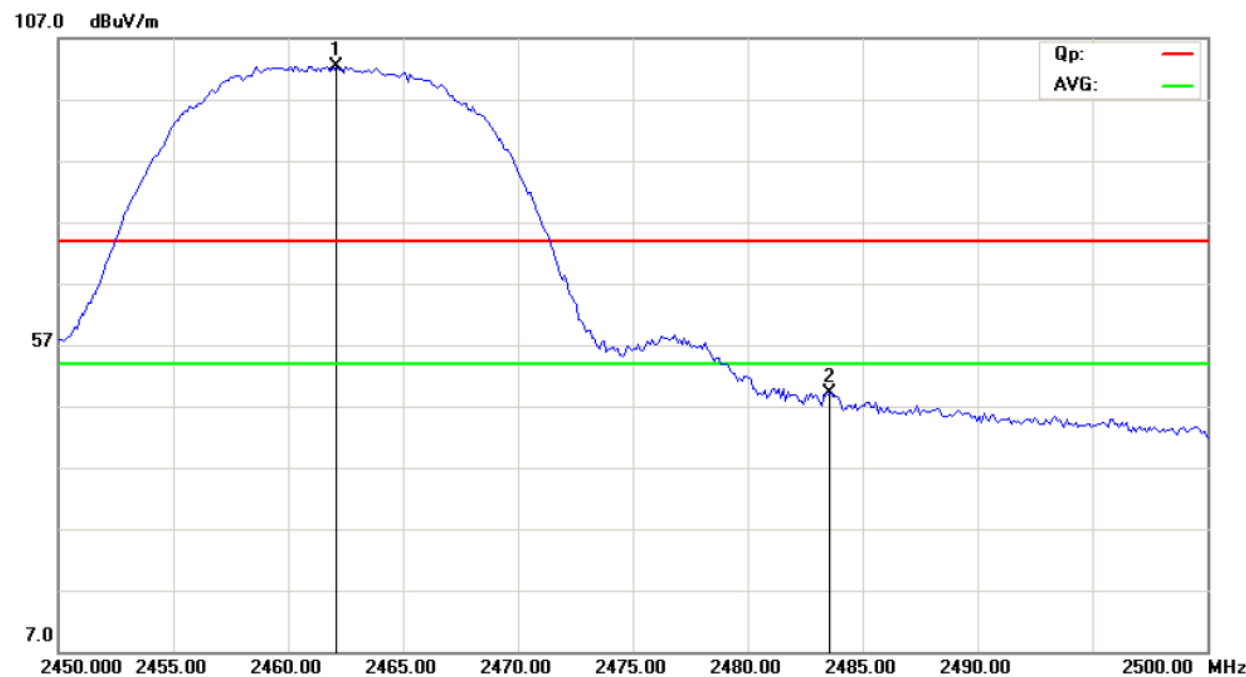


802.11b 1Mbps Channel

12.4 Restricted band Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure: Vertical



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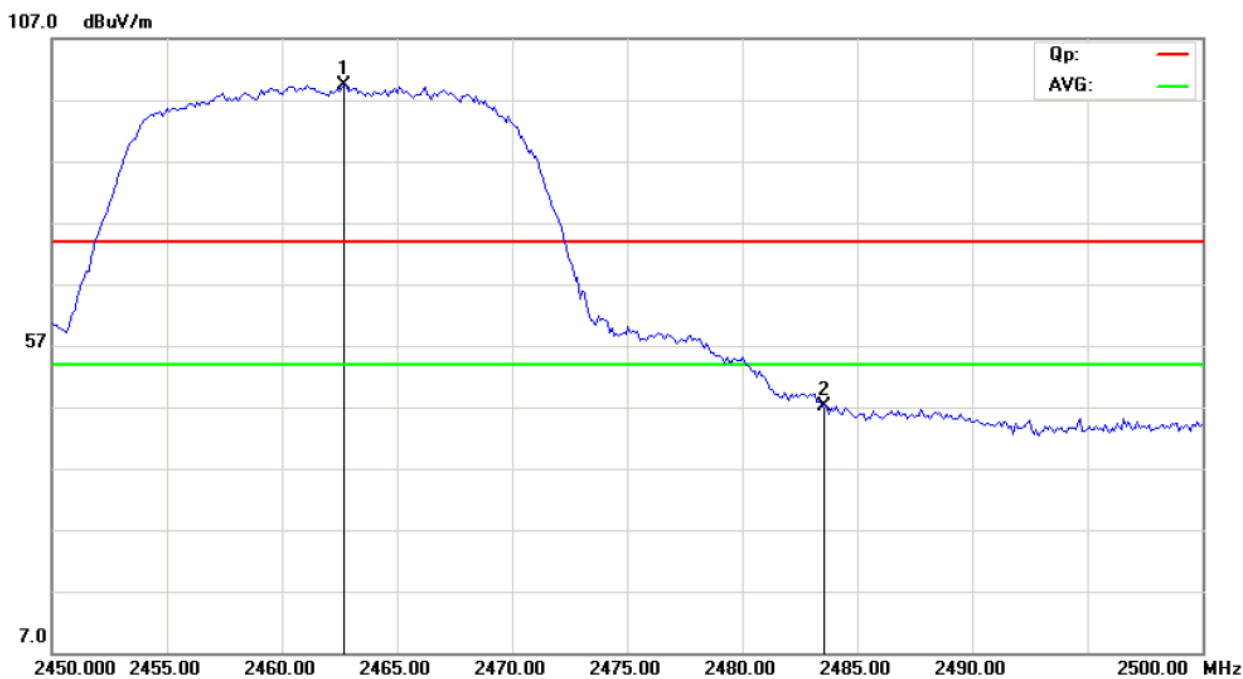


802.11g 6Mbps High Channel

12.4 Restricted band Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure: Horizontal



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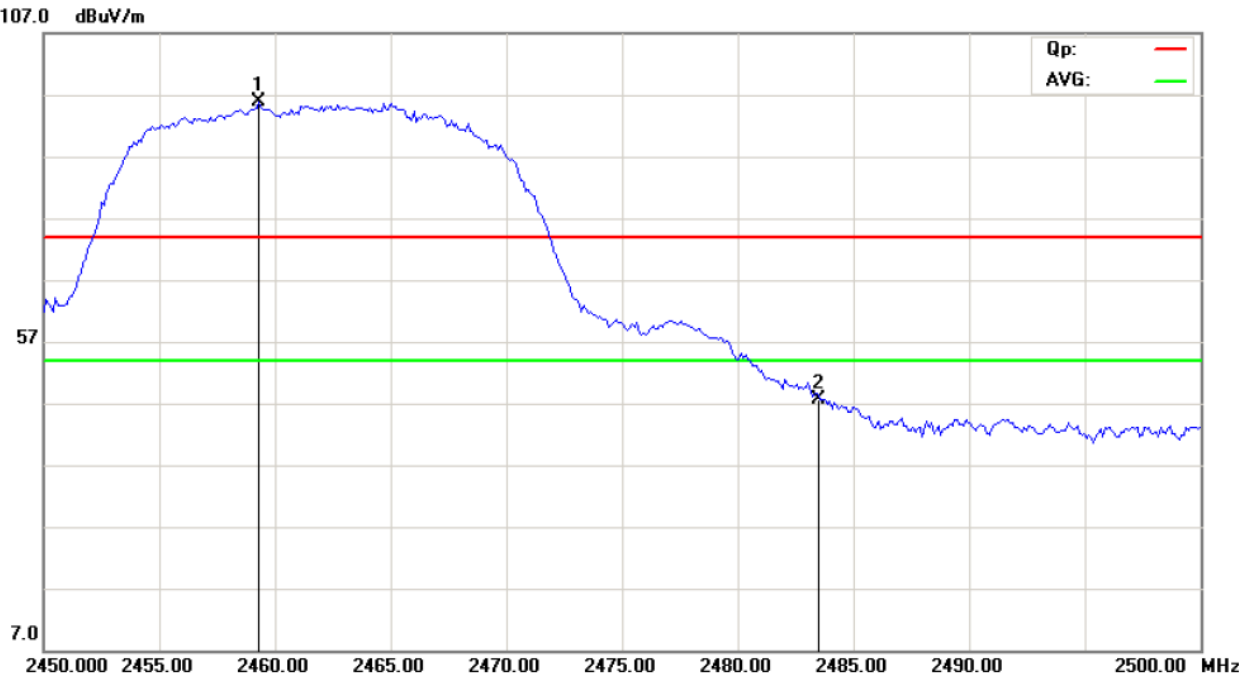


802.11g 6Mbps High Channel

12.4 Restricted band Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure: Vertical



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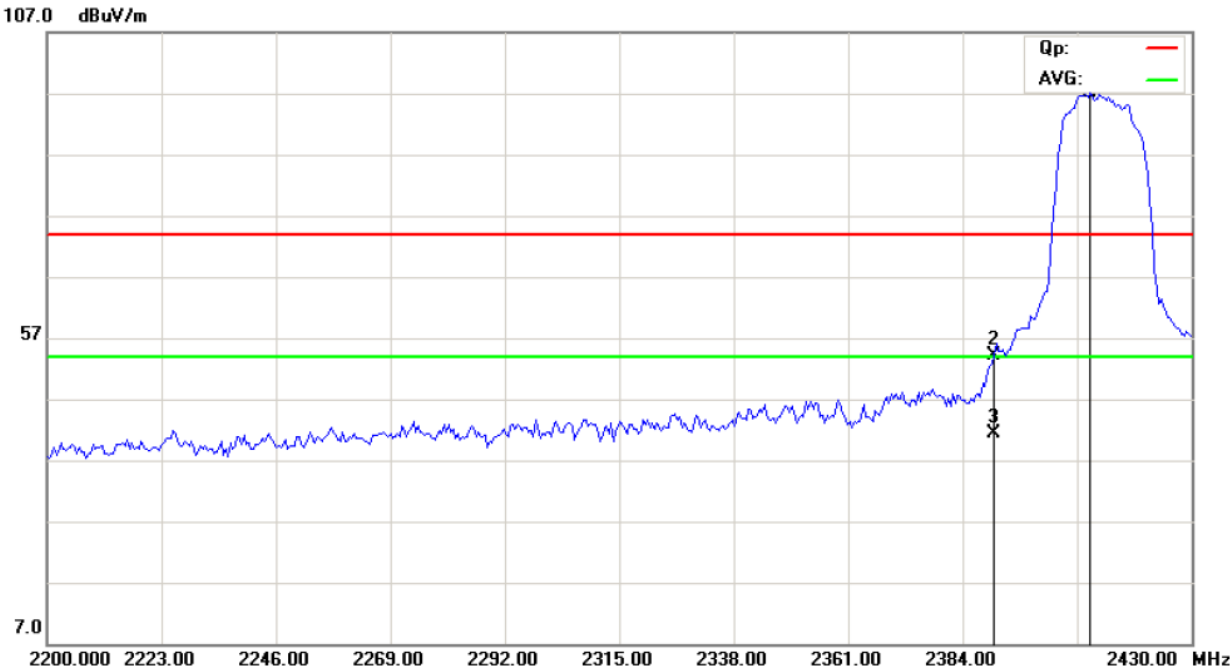


802.11g 6Mbps Low Channel

12.4 Restricted band Measurement

Product:	IP Camera		Model:	JPT3815W
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	54.18	Limit	74(dBμV/m)
	AV (dBμV/m)	41.29		54(dBμV/m)

Test Figure: Horizontal



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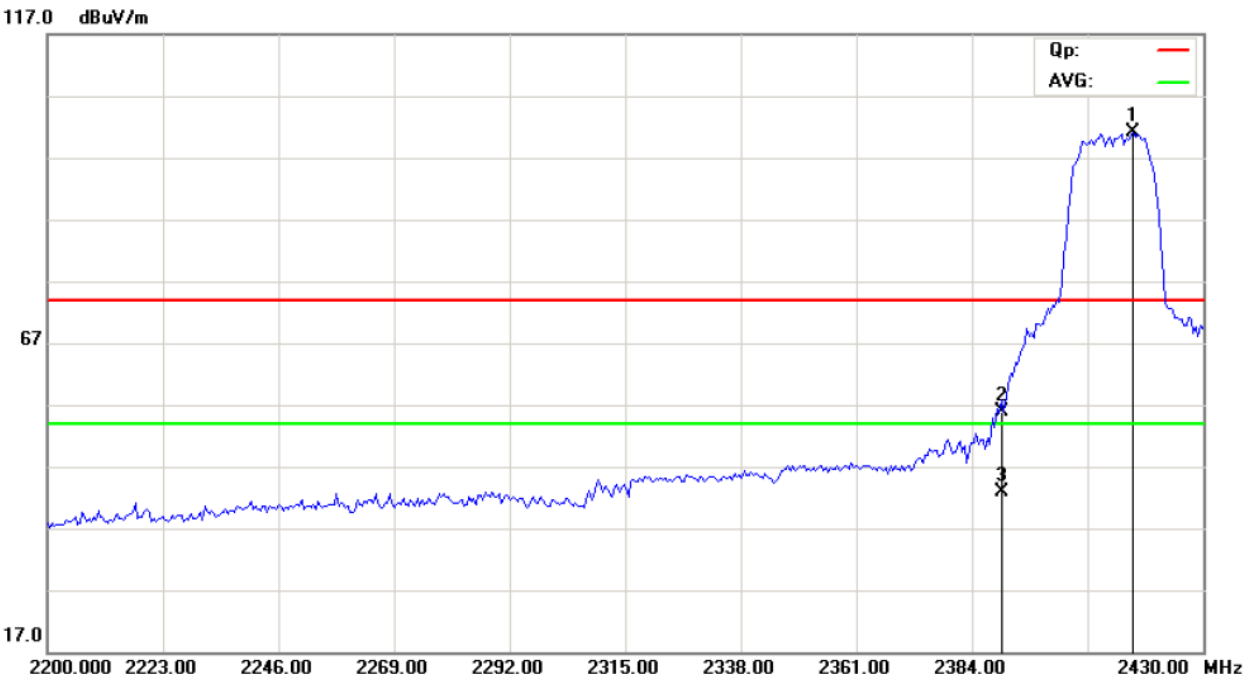


802.11g 6Mbps Low Channel

12.4 Restricted band Measurement

Product:	IP Camera		Model:	JPT3815W
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	55.86	Limit	74(dBμV/m)
	AV (dBμV/m)	42.76		54(dBμV/m)

Test Figure: Vertical



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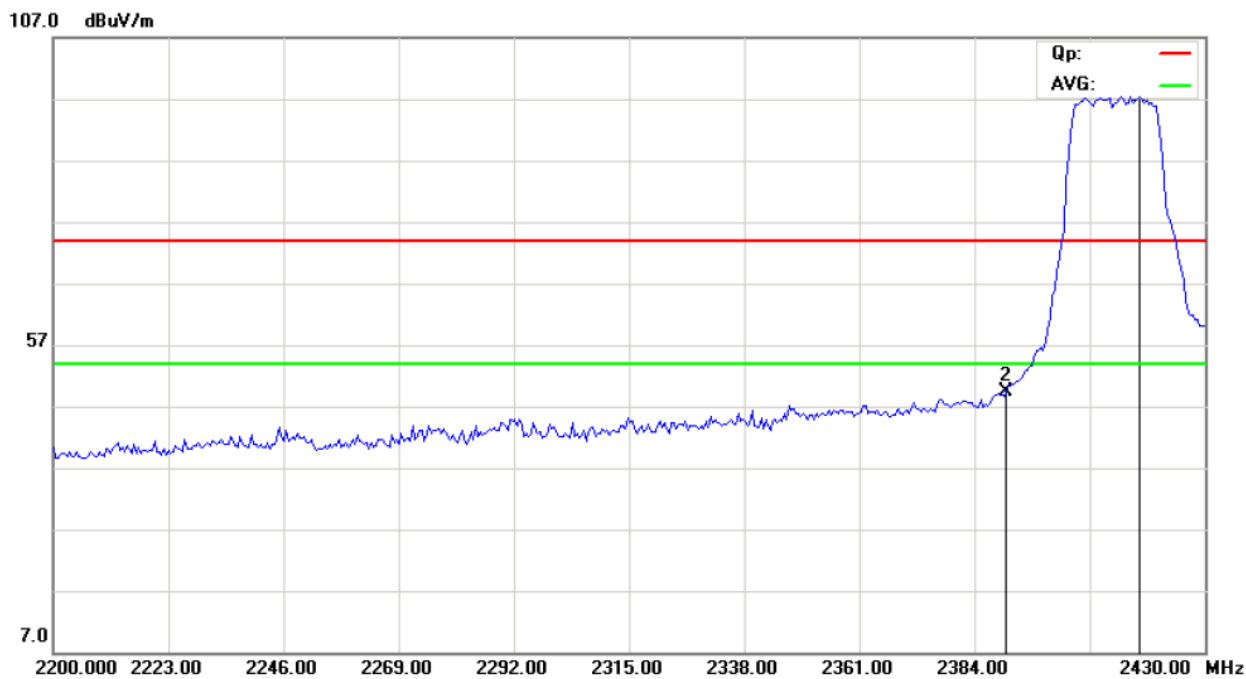


802.11n HT20 6.5Mbps Low Channel

12.4 Restricted band Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure: Horizontal



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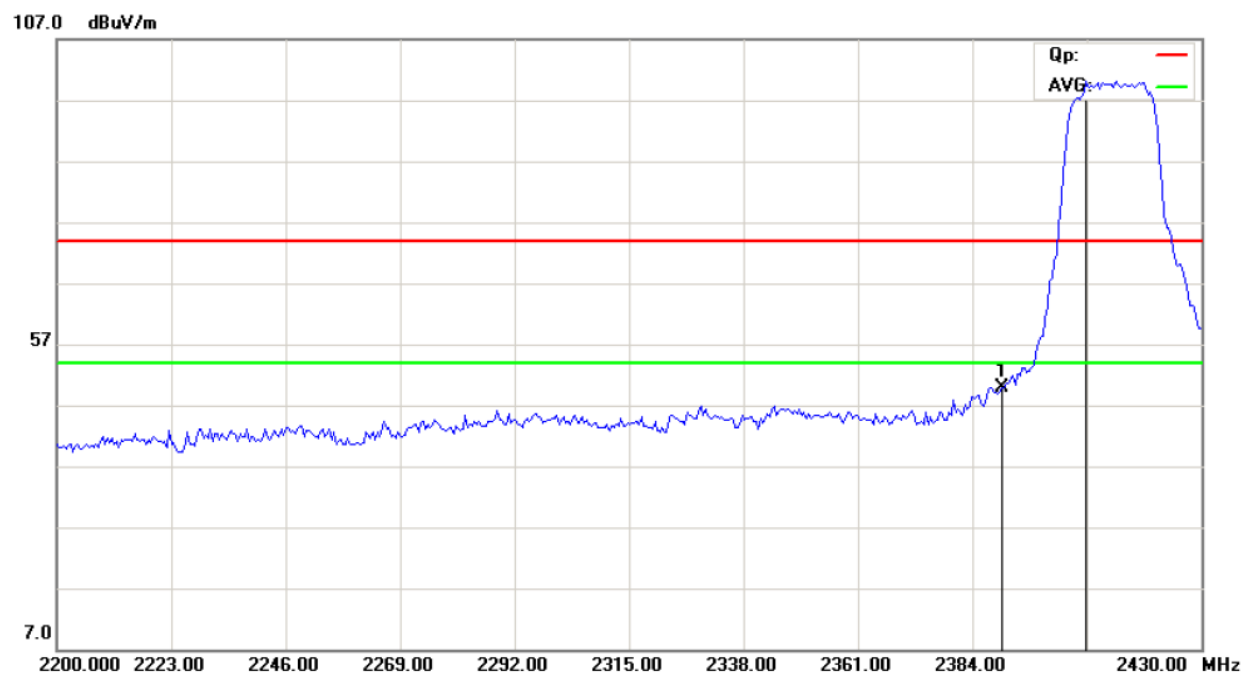


802.11n HT20 6.5Mbps Low Channel

12.4 Restricted band Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure: Vertical



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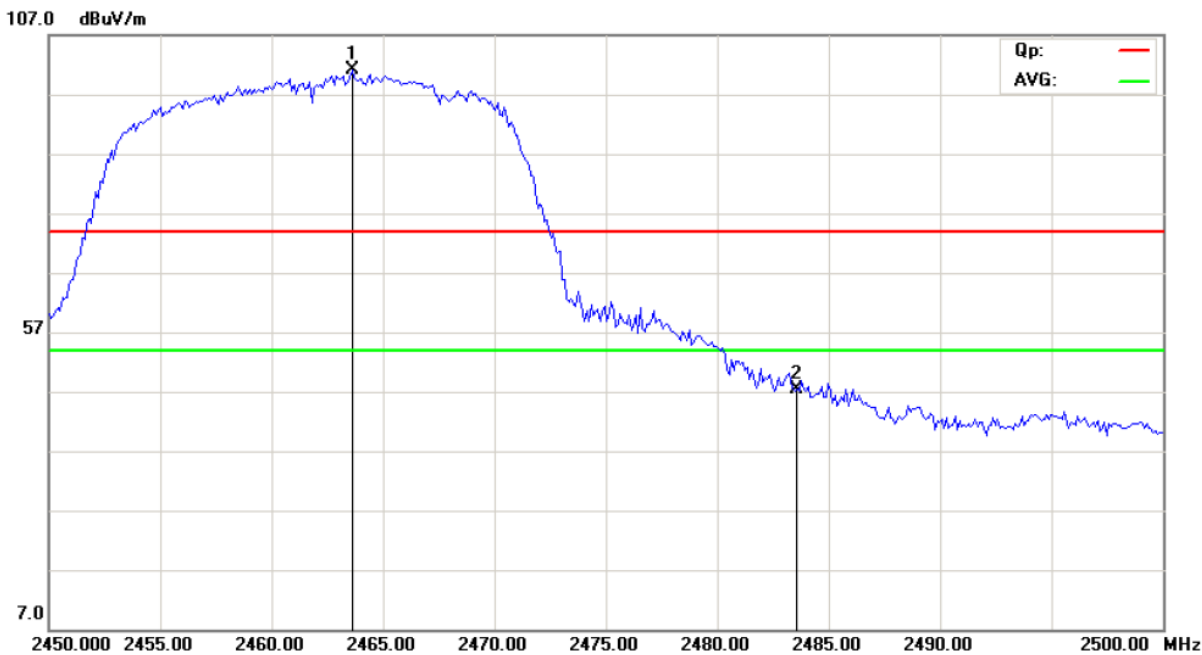


802.11n HT20 6.5Mbps High Channel

12.4 Restricted band Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure: Horizontal



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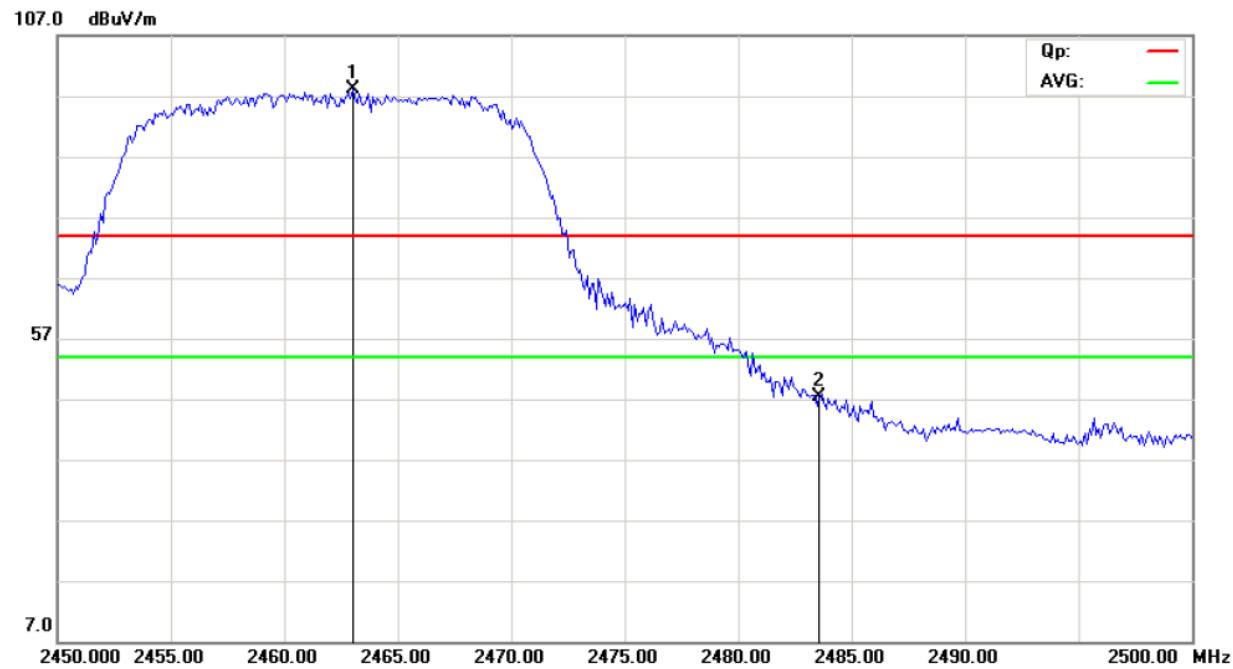


802.11n HT20 6.5Mbps High Channel

12.4 Restricted band Measurement

Product:	IP Camera	Model:	JPT3815W
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure: Vertical



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11.0 Antenna Requirement

11.1 Standard Applicable

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

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

Dipole antenna used. The antenna is connected to a Reverse Polarity SMA connector (Please see page 114 for details). The maximum Gain of the antennas is 2 dBi. So it meets the requirement of 15.203.

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12.0 Maximum Permissible Exposure

Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100000			5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000			1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

MPE Calculation Method

$$E \text{ (V/m)} = (30 \cdot P \cdot G)^{0.5} / d \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = E^2 / 377$$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = (30 \cdot P \cdot G) / (377 \cdot d^2)$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

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Calculated Result and Limit

Antenna Gain: 2dBi

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.585	20.99	125.6	0.04	1	Compiles

Note: the worse case was recorded.

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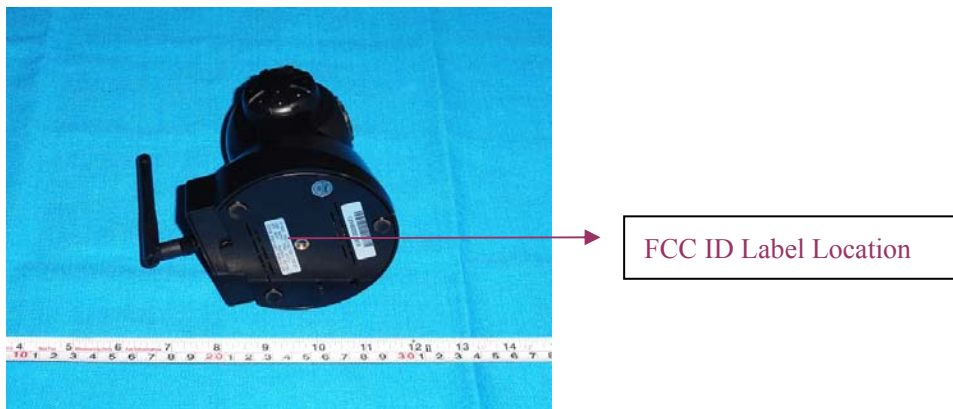
13.0 FCC ID Label

FCC ID: N6QMJCAMERA

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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14.0 Photo of testing

Conducted Emissions

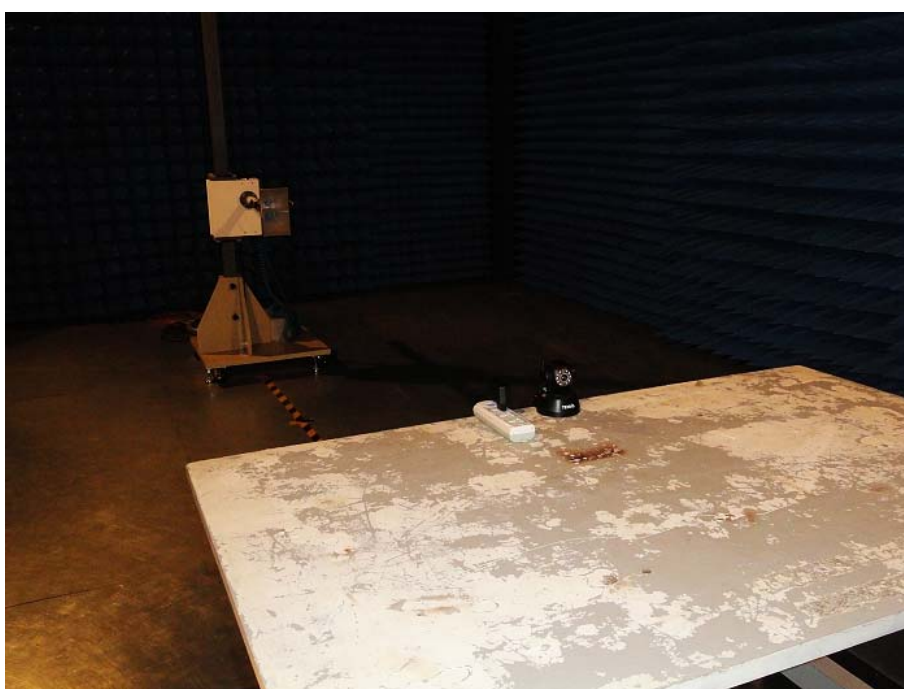
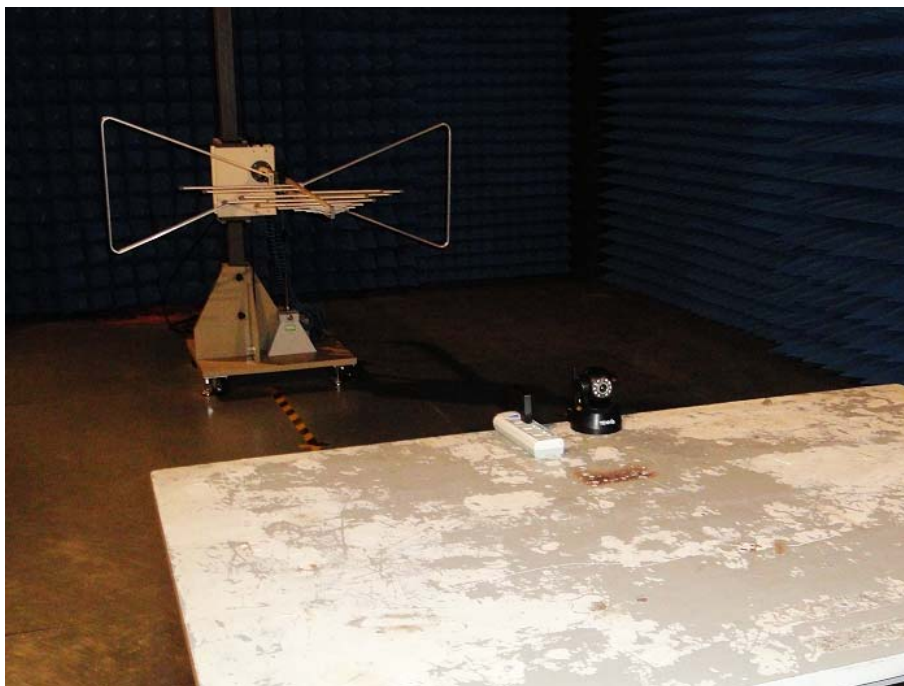


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Radiated Emissions



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Photo for the EUT

Outside view



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Outside view



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Inside view

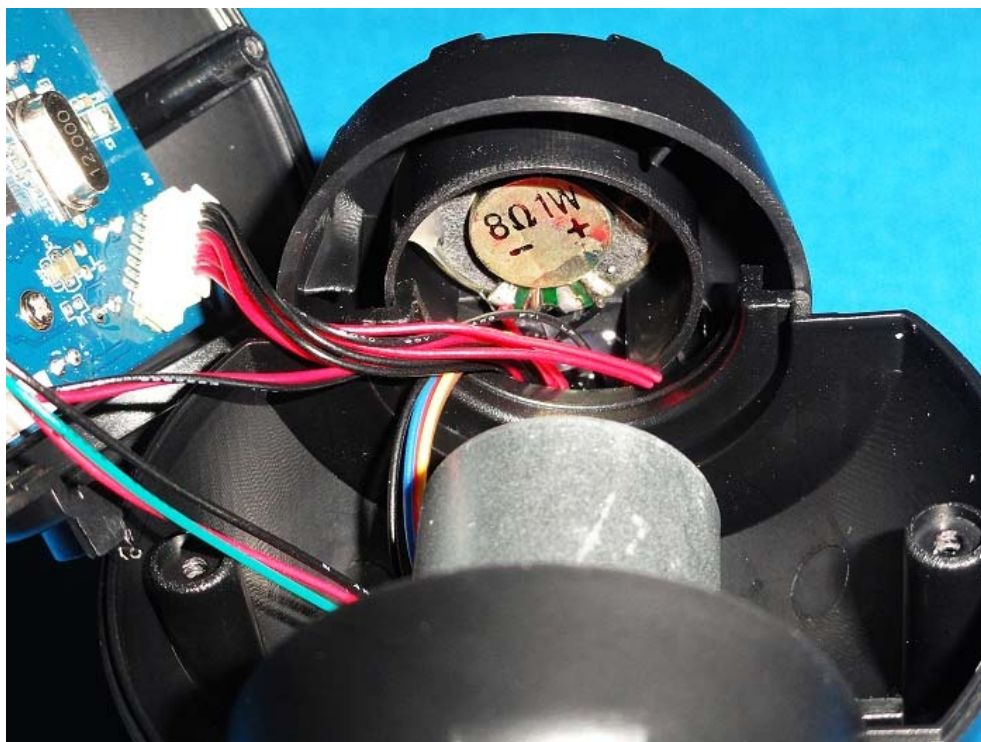
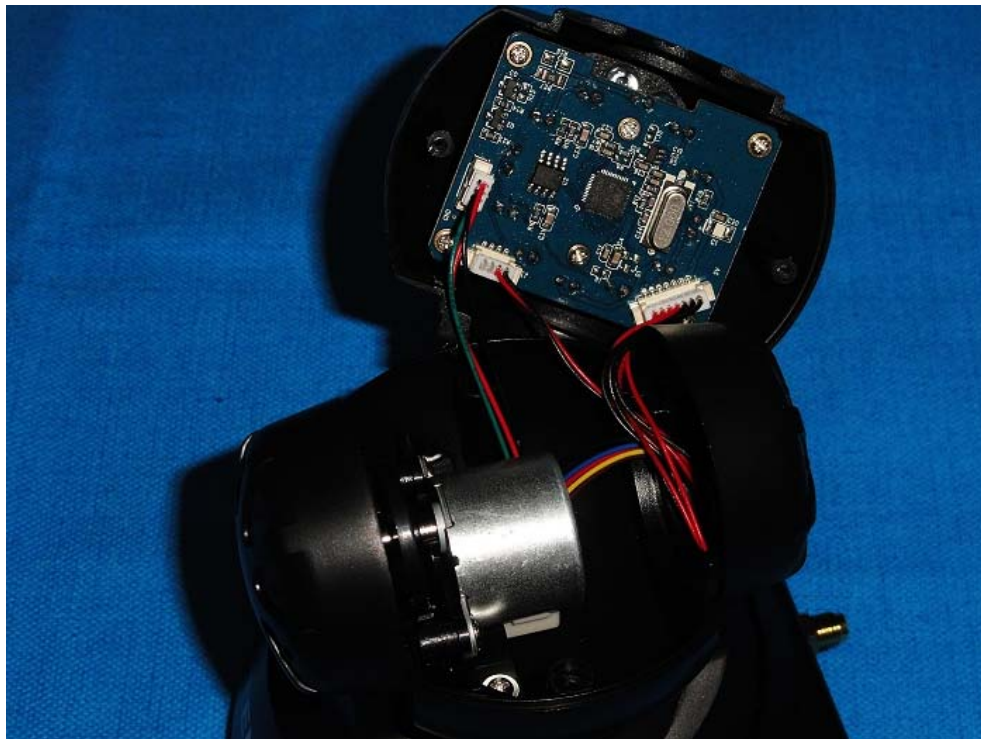


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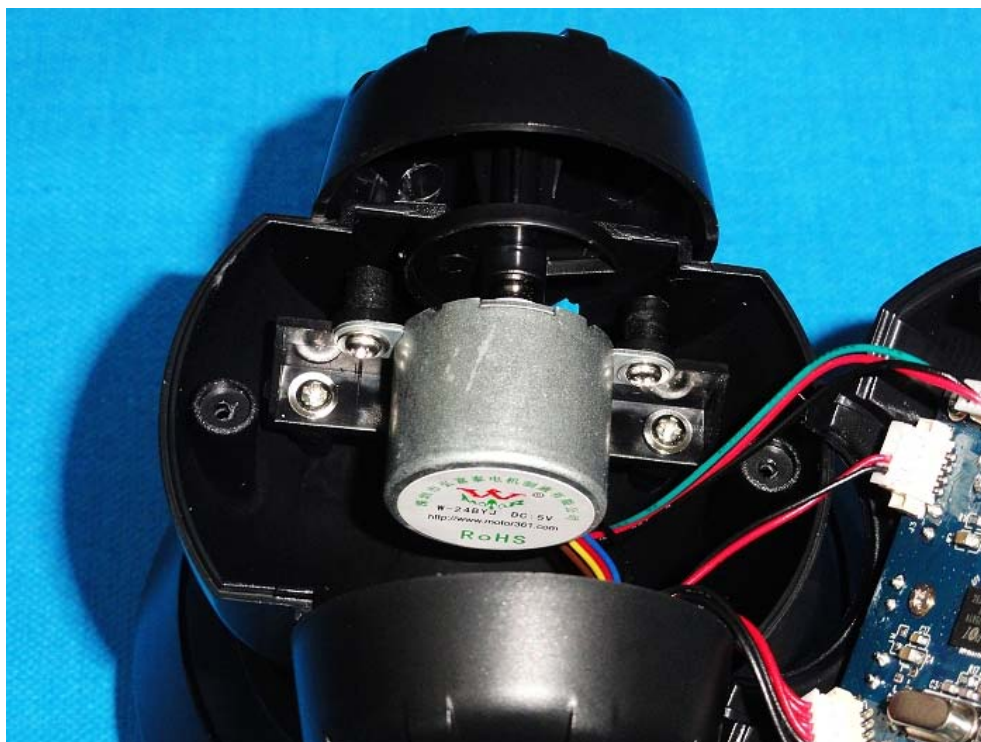


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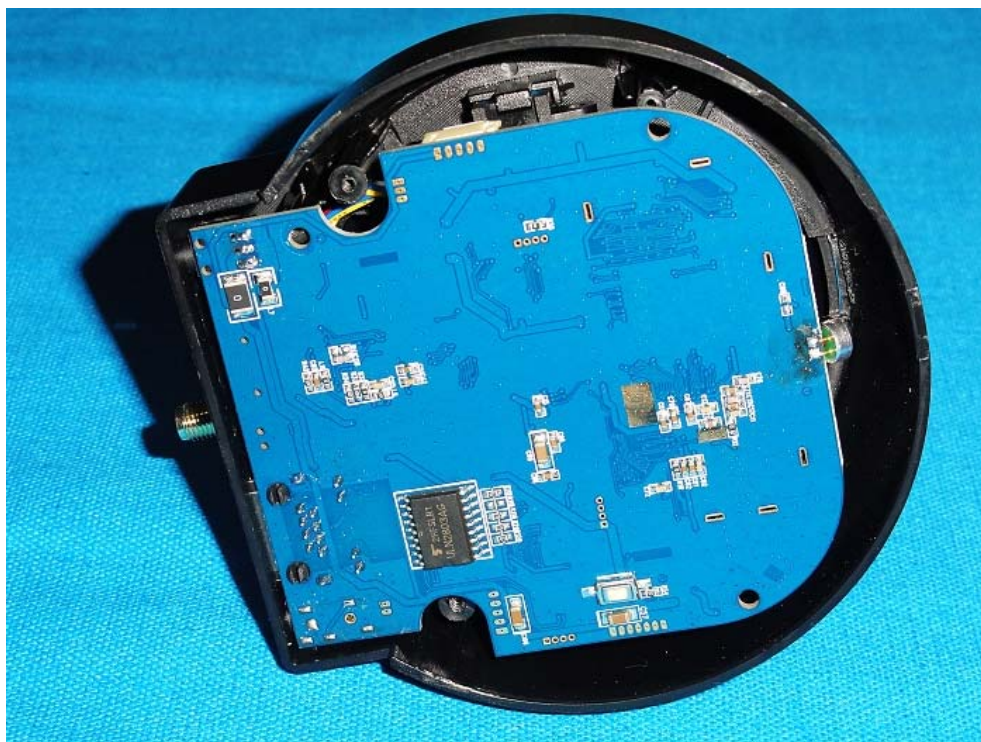


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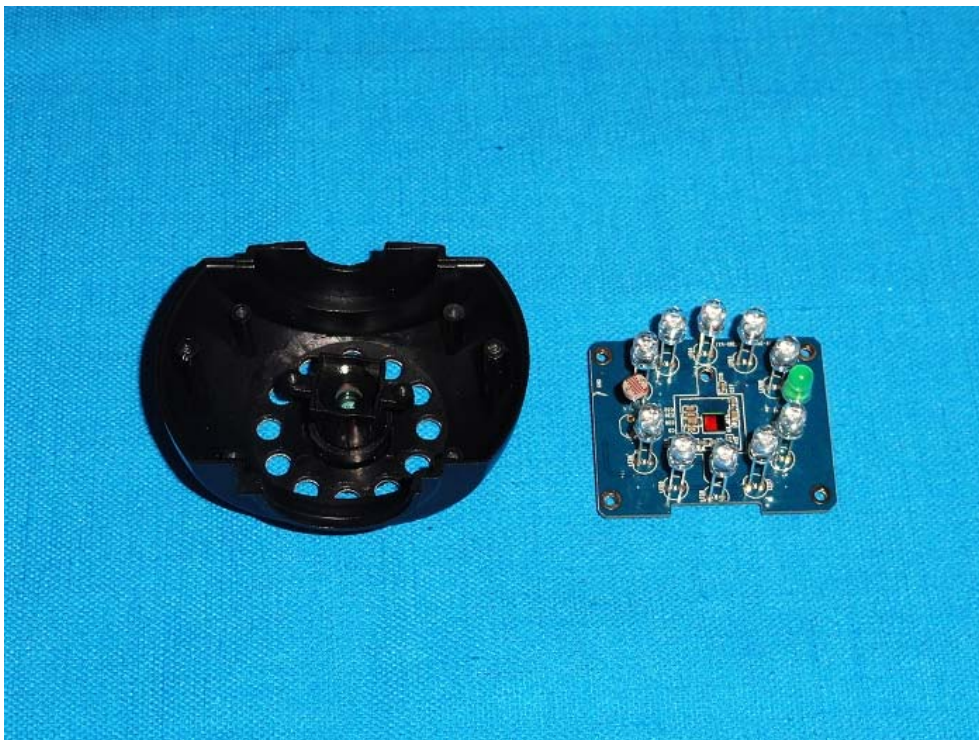
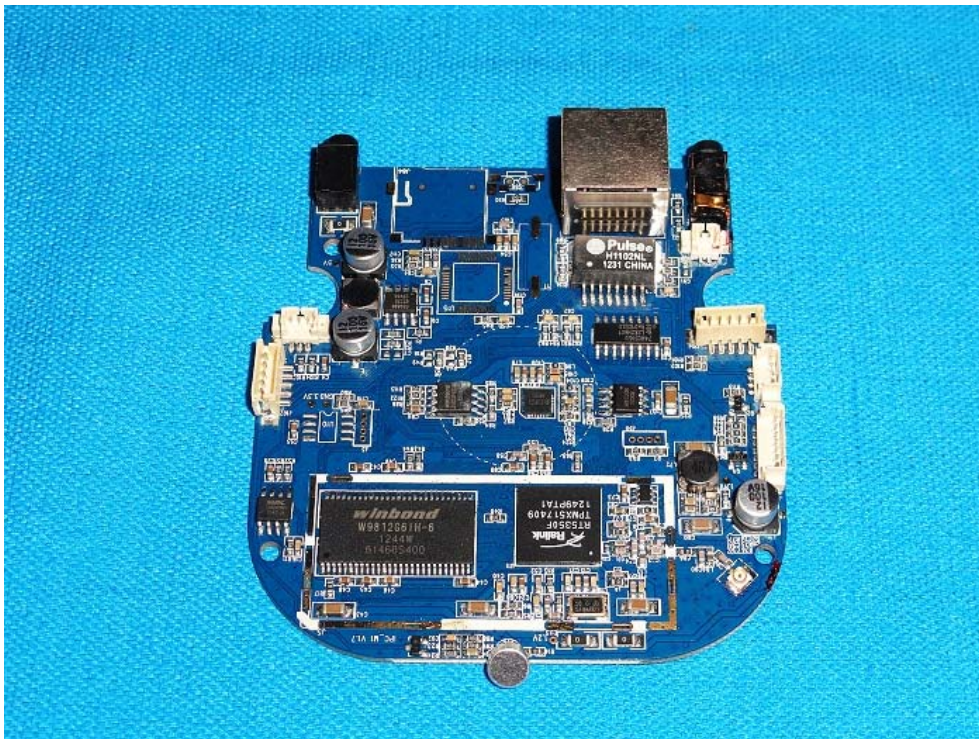


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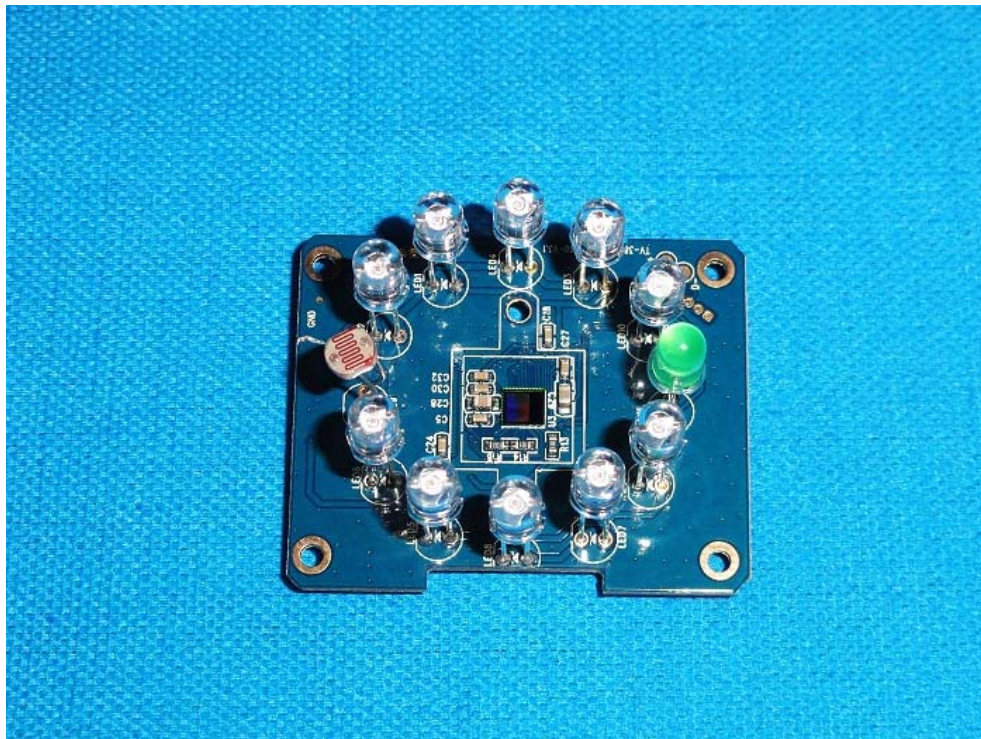


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