588 West Jindu Road, Songjiang District, Shanghai, China

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TEST REPORT

SHEMO10050056504 Application No.:

Jiangsu Shinco Digital Technology Co.,Ltd. Applicant:

FCC ID: YGLSH7601

Fundamental Frequency: 2.4GHz ISM Band

Equipment Under Test (EUT):

Name: LCD COLOR TV&BD PLAYER

Model No .: NS-32LB451A11

Standards: FCC PART 15 SUBPART C, Section 15.247

Date of Receipt: May 17,2010

May 18,2010 to July 15,2010 Date of Test:

Date of Issue: July 16,2010

PASS * Test Result:

In the configuration tested, the EUT complied with the standards specified above.

Approved by: Tested By:

Tino Pan San Yuan

E&E Section Manager **EMC TEST Engineer**

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San Ywan

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Test Summary

The customer requested FCC tests for a 2.4GHz transmitter.					
Test	Test Requirement	Test Procedure	Result		
AC Power Line Conducted	FCC PART 15	ANCI C62 4 2002	PASS		
Emission	Section 15.207(a)	ANSI C63.4,2003	PASS		
	FCC PART 15				
Peak Output Power	Section 15.247(b)(3),(4)(c)	KDB 558074	PASS		
CdD Danada iddle	FCC PART 15	VDD 550074	DACC		
6dB Bandwidth	Section 15.247(a)(2)	KDB 558074	PASS		
Dedicted Emission David Edge	FCC PART 15	ANSI C63.4,2003	DACC		
Radiated Emission Band Edge	Section 15.247(d)	KDB 558074	PASS		
Conducted Couriers Emission	FCC PART 15	VDD 550074	DACC		
Conducted Spurious Emission	Section 15.247(d)	KDB 558074	PASS		
Dadiated Courieus Emission	FCC PART 15	ANSI C63.4,2003	PASS		
Radiated Spurious Emission	Section 15.247(d)	KDB 558074	PASS		
Deals Device Develts	FCC PART 15	VDD 550074	DACC		
Peak Power Density	Section 15.247(e)	KDB 558074	PASS		
Antonno Doguiyano	FCC PART 15	NI/A	DACC		
Antenna Requirement	Section 15.203	N/A	PASS		

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3 General Information

3.1 Client Information

Applicant: Jiangsu Shinco Digital Technology Co.,Ltd.

Applicant Address: 5 West Waihuan Road, New District Changzhou , Jiangsu 213022

China

Manufacturer: Best Buy Co.,Inc. and its subsidiaries and affiliates

Manufacturer 7601 Penn Avenue South Richfield,MN55423 USA

Address:

3.2 Details of E.U.T.

Name: LCD COLOR TV&BD PLAYER

Model No.: NS-32LB451A11 Power Supply: ~120VAC 60Hz

Power Cord: About 1.5

Frequency Band: 2.4GHz ISM Band

Modulation tye CCK,DQPSK,DBPSK for DSSS

64QAM,16QAM,QPSK,BPSK for OFDM

Spread Spectrum: IEEE 802.11b:DSSS

IEEE 802.11g/n:OFDM

Frequency Range& 802.11b/g/n_20M:2412-2462MHz,11 channels Channel number 802.11 n_40M:2422-2452 MHz, 7 channels

3.3 Description of Support Units

Name / Function	Model No.	Trade Name	S/N
MOUSE	M-UAE119	Lenovo	41U3029
KEYBOARD	KU-0225	Lenovo	0151853
PRINTER	Deskjet 6540	HP	MY4CDZR08G
DVD PLAYER	DV-410V-K	Pioneer	HHKD002282CN
PC	BV7	Lenovo	L3ABL2M
Multi TV pattern generator	WY5418A	WUYI	G23-025

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3.4 Test Location

Tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.

Tel: +86 21 6191 5666 Fax: +86 21 6191 5655

No tests were sub-contracted.

3.5 Other Information Requested by the Customer

None.

3.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2011-07-29.

FCC – Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2012-03-17.

Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2011-09-29.

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3172 and C-3514 respectively. Date of Registration: 2009-11-30. Date of Expiry: 2012-03-17.

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4 **Test Results**

4.1 **Test Instruments**

	1	I		1	1	
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2010-6-4	2011-6-3
2	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-679	2010-6-4	2011-6-3
3	Horn Antenna	Rohde & Schwarz	HF906	100284	2010-4-9	2011-4-8
4	ANTENNA	SCHWARZBECK	VULB9168	9168-313	2010-6-4	2011-6-3
5	Ultra broadband antenna	Rohde & Schwarz	HL562	100227	2009-10-9	2010-10-8
6		Shanghai ZhongXuan Electronic Co;Ltd	BY-2003P		2009-10-15	2010-10-14
7 CLAMP METER FLUKE		FLUKE	316	86080010	2010-04-28	2011-04-27
8	Thermo-Hygrometer	ZHICHEN	ZC1-2	01050033	2009-10-15	2010-10-14
9	High-low temperature cabinet	Shanghai YuanZhen	GW2050		2010-6-17	2011-6-16
10	DC power	KIKUSUI	PMC35-3	NF100260	2010-1-16	2011-1-15
11	Tunable Notch Filter	Wainwright instruments Gmbh	WRCT1800.0/ 2000.0-0.2/40- 5SSK	11	2010-1-27	2011-1-26
12 Tunable Notch Filter Wainwright instruments Gmbh		WRCT800.0/88 0.0-0.2/40-5SSK	9	2010-1-27	2011-1-26	
13	13 High pass Filter FSCW		HP 12/2800- 5AA2	19A45-02	2010-4-9	2011-4-8
14 Low nosie amplifier TESEQ I		LNA6900	70133	2010-7-6	2011-7-5	

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15	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2010-06-04	2011-06-03
16	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127-490	2010-05-07	2011-05-06
17	Line impedance stabilization network	ETS	3816/2	00034161	2009-07-30	2010-07-29

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4.2 E.U.T. Operation

Input voltage: AC 120V 60Hz

Operating Environment:

Temperature: 25.0 °C **Humidity:** 56 % RH 1008 mbar Atmospheric Pressure:

EUT Operation: The EUT has been tested under operating condition.

> Test program was used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

802.11 b mode:Channel low (2412MHz) mid(2437MHz) high(2462MHz) with the worst case 1Mbps date rate was report

for radiated spurious emission.

802.11 g mode:Channel low (2412MHz) mid(2437MHz)

high(2462MHz) with the worst case 6Mbps date rate was report

for radiated spurious emission.

802.11 n 20M mode:Channel low (2412MHz) mid(2437MHz) high(2462MHz) with the worst case 6.5Mbps date rate was report

for radiated spurious emission.

802.11 n 40M mode:Channel low (2422MHz) mid(2437MHz) high(2452MHz) with the worst case 13.5Mbps date rate was

report for radiated spurious emission.

4.3 **Test Procedure & Measurement Data**

4.3.1 Antenna Requirement

Test Requirement: FCC Part15 15.203

Test Date: May 24,2010

Measurement Distance: 3m (Semi-Anechoic Chamber)

An intentional radiator shall be designed to ensure that no antenna Requirements: other than fumished 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 15.211,15.213,15.217,15.219or 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

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That the limits in this part are not exceeded.

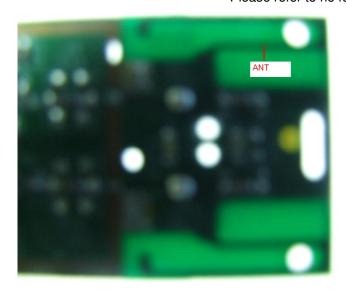
FCC Rules (Section15.203)

Described how the EUT complies with the requirement that either its antenna is permanently attached, or that it employs a unique Antenna connector, for every antenna proposed for use with the

The exception in those cases where EUT must be professionally Installed. In order to demonstrate that professional installation is Required, the following 3 points must be addressed:

- The application(or intended use)of the EUT
- The installation requirements of the EUT
- The method by which the EUT will be marketed The directional gains of antenna used for transmitting is 2 dBi, The RF transmitter uses an integrate antenna withot connector, Please refer to he following picture.

Conclusion



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4.3.2 Conducted Emission Test

Test Requirement: FCC Part15 15.207

Test date: July 2,2010

Standard Applicable According to section 15.207, frequency 150KHz to 30MHz shall not

not exceed the limit table as blew.

Frequency of Emission (MHz) Conducted Limit (dBuV		Limit (dBuV)
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

EUT Setup 1.The conducted emission tests were performed in the test

site, using the setup in accordance with the ANSI C63.4-2003.

2.The AC/DC Power adaptor of EUT was plug-in LISN.The rear of the EUT and periphearals were placed flushed with the rear of the

tabletop.

3. The LISN was connected with 120V AC/60Hz power source.

Measurement Result Operation mode:Normal Link Mode

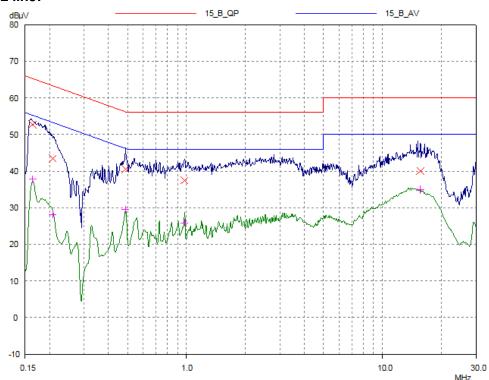
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L line:



Final Measurement Results

Frequency	QP Level	QP Limit	QP Delta
MHz	dBμV	dBμV	dB
0.16374	52.69	65.27	12.58
0.20795	43.51	63.29	19.78
0.4878	40.57	56.21	15.64
0.97569	37.49	56.00	18.51
15.61641	40.11	60.00	19.89
Frequency	AV Level	ΑV Limit	AV Delta
MHz	dBμV	dBμV	dB
0.16374	37.77	55.27	17.50
0.20795	28.10	53.29	25.19
0.4878	29.49	46.21	16.72
0.97569	25.88	46.00	20.12
15.61641	34.95	50.00	15.05

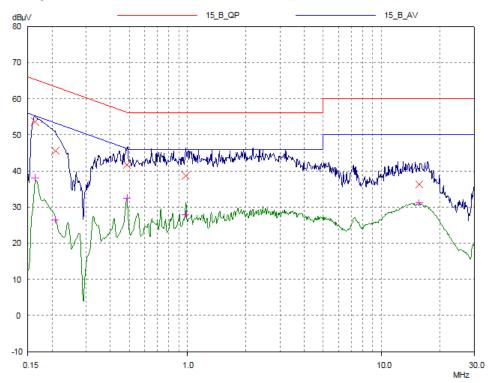
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N Line:



Final Measurement Results

Frequency	QP Level	QP Limit	QP Delta
MHz	dBµV	dBµ∨	dB
0.16374	53.64	65.27	11.63
0.20795	45.61	63.29	17.68
0.4878	41.66	56.21	14.55
0.97569	38.73	56.00	17.27
15.61641	36.28	60.00	23.72
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµ∨	dBµ∨	dB
0.16374	38.11	55.27	17.16
0.20795	26.35	53.29	26.94
0.4878	32.51	46.21	13.70
0.97569	27.94	46.00	18.06
15.61641	31.19	50.00	18.81

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4.3.3 Peak Output Power Measurement

Test Requirement: FCC Part 15 15.247(a)(2),(b) **Test date** June 1,2010 to July 5,2010

Standard Applicable: According to section 15.247(a)(2),(b)

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

- (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennaswith directional gains that do not exceed 6 dBi. Except as shown in paragraph(c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (c) Operation with directional antenna gains greater than 6 dBi.
- (1) Fixed point-to-point operation:
- (i) Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB fore very 3 dB that the directional gain of the antenna exceeds 6 dBi.
- (ii) Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

Measuremet Produre

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF calbe from the antenna port to the spectrum.

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3. Set the occur band to the entire emission bandwitdth of the signal.

- 4. Record the max.channel power reading
- 5. Repeat above procedures until all the frequency measured were complete.

Measurement Result:

			Chain 1	Chain2	Total		
Mode	СН	Frequency	Output	Output	Power	Limit	Result
Mode	CII	(MHz)	Power	Power	(dBm)	(dBm)	Result
			(dBm)	(dBm)	(ubiii)		
802. 11b	Low	2412	12.72	12. 55	N/A	30	PASS
(1Mbps)	Mid	2437	12.63	12. 34	N/A	30	PASS
(IMDDS)	High	2462	12. 31	12. 25	N/A	30	PASS
000 11	Low	2412	17.67	17.74	N/A	30	PASS
802.11g (6Mbps)	Mid	2437	18. 56	18. 43	N/A	30	PASS
(OMDPS)	High	2462	18. 19	18.65	N/A	30	PASS
000 11m HT90	Low	2412	18. 74	18.86	21.81	30	PASS
802.11n_HT20 (6.5Mbps)	Mid	2437	18. 96	18. 76	21.87	30	PASS
(o. ombps)	High	2462	18. 10	18. 21	21. 16	30	PASS
000 11n HT40	Low	2422	18. 16	18. 11	21. 15	30	PASS
802.11n_HT40 (13.5Mbps)	Mid	2437	17. 94	18. 32	21. 14	30	PASS
(13. 5Mbps)	High	2452	17. 56	18. 45	21.04	30	PASS

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4.3.4 6dB Bandwidth

Test Requirement: FCC Part15 247(a)(2)

Test date: June 1,2010 to July 5,2010

Standard Applicable: According to section 15.247(a)(2), Systems using digital

modulationg techniques may operate in the 902-928MHz,2400-2483.5MHz,and 5725-5850MHz bands.The minimum 6dB

bandwidth shall be at least 500KHz.

Measurement Procedure: 1. Place the EUT on the table and set it in transmitting mode.

2. Remove the antenna from the EUT and then connect a low

loss RF cable from the antenna port to the

spectrum analyzer.

3. Set the spectrum analyzer as RBW=100KHz, VBW =3* RBW,

Span=30/50MHz, Sweep=auto

4. Mark the peak frequency and –6dB (upper and lower)

freauency.

5. Repeat above procedures until all frequency measured were

complete.

Measurement Result:

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Chain 1:

Test Results(802.11b)1M

103t 1103dit3(002:11b) 1101					
	СН	Frequency	Bandwidth	Limit Bandwidth	Result
		(MHz)	(MHz)	(KHz)	Result
	LOW	2412	10. 095	500	PASS
	MID	2437	10.096	500	PASS
	HIGH	2462	10. 143	500	PASS

Test Results(802.11g)6M

103111030113(002.119)0111					
	СН	Frequency	Bandwidth	Limit Bandwidth	Result
		(MHz)	(MHz)	(KHz)	Result
	LOW	2412	16. 442	500	PASS
	MID	2437	16. 490	500	PASS
	HIGH	2462	16. 586	500	PASS

Test Results(802.11n 20M)6.5M

100111000110(002:1111_2011/0:0111					
	СН	Frequency	Bandwidth	Limit Bandwidth	Result
	CII	(MHz)	(MHz)	(KHz)	Result
	LOW	2412	17. 692	500	PASS
	MID	2437	17. 740	500	PASS
	HIGH	2462	17. 836	500	PASS

Test Results(802 11n 40M)13 5M

Teet Heedite (edz. i i ii _ i ett.) Tei ett.					
СН	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result	
LOW	2422	36. 458	500	PASS	
MID	2437	36. 298	500	PASS	
HIGH	2452	36. 462	500	PASS	

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Chain 2:

Test Results(802.11b)1M

СН	Frequency	Bandwidth	Limit Bandwidth	Result	
	(MHz)	(MHz)	(KHz)		
LOW	Ī	2412	10. 175	500	PASS
MID)	2437	10. 175	500	PASS
HIGH	1	2462	10. 166	500	PASS

Test Results(802.11g)6M

СН	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
LOW	2412	17. 033	500	PASS
MID	2437	16. 506	500	PASS
HIGH	2462	16. 506	500	PASS

Test Results(802.11n_20M)6.5M

СН	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
LOW	2412	17. 868	500	PASS
MID	2437	17. 788	500	PASS
HIGH	2462	17. 788	500	PASS

Test Results(802.11n 40M)13.5M

СН	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
LOW	2422	36. 538	500	PASS
MID	2437	36. 538	500	PASS
HIGH	2452	36. 538	500	PASS

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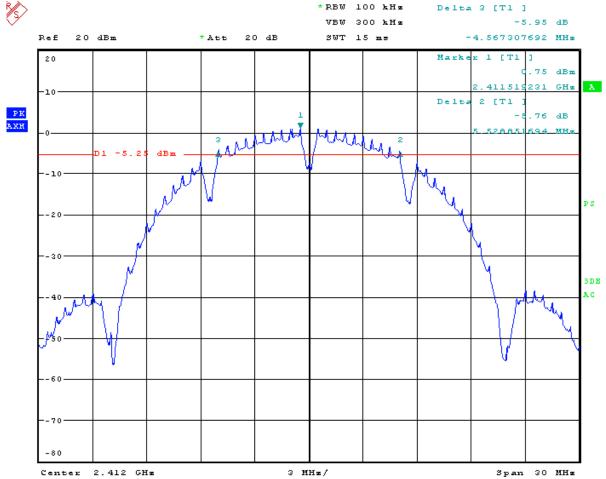
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Chain 1:

6dB Band Width Test Data CH-Low,802.11b,1M mode



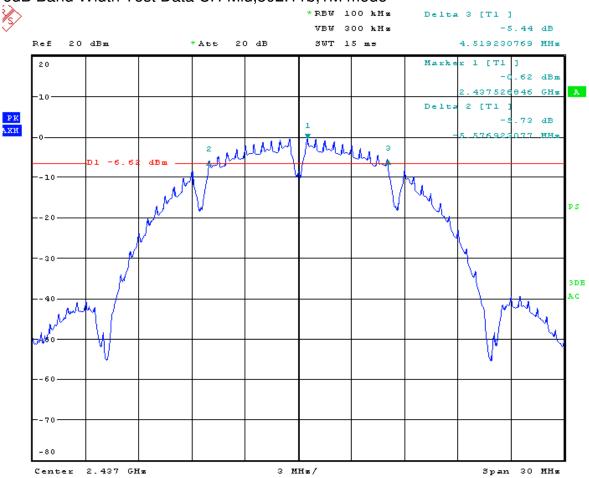
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6dB Band Width Test Data CH-Mid,802.11b,1M mode



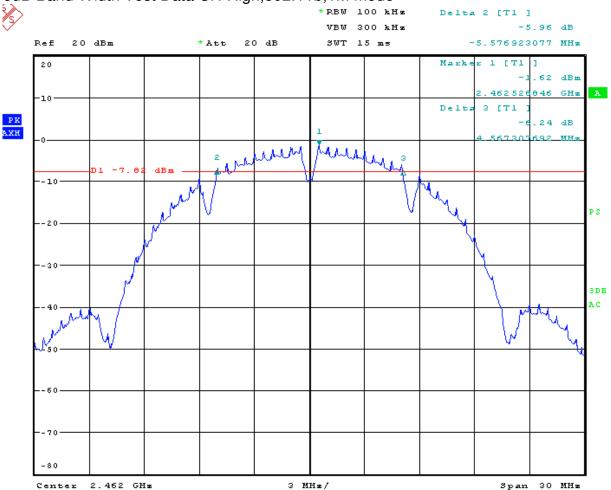
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6dB Band Width Test Data CH-High,802.11b,1M mode



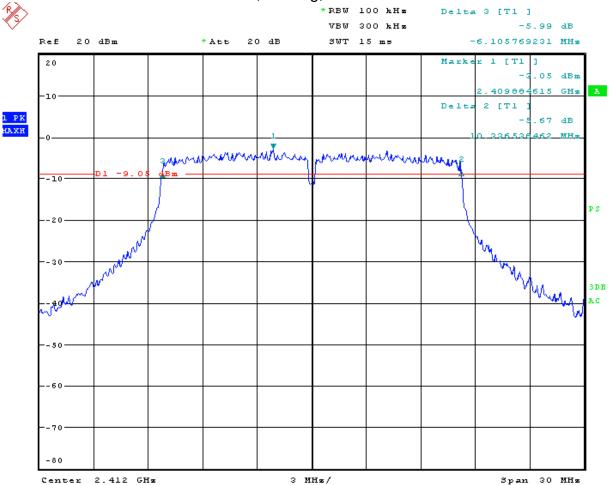
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6dB Band Width Test Data CH-Low,802.11g,6M mode



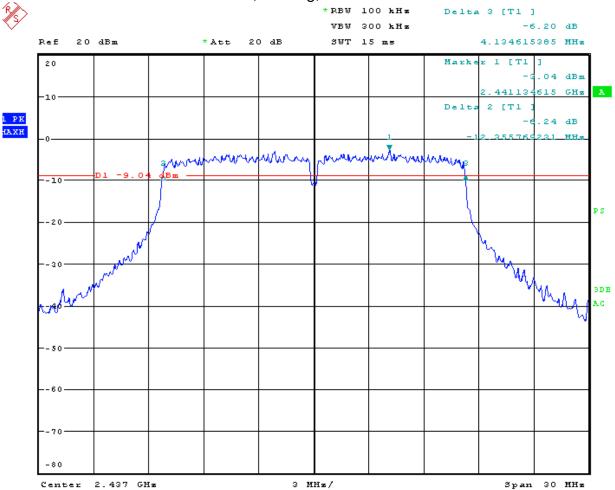
588 West Jindu Road, Songjiang District, Shanghai, China

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6dB Band Width Test Data CH-Mid,802.11g,6M mode



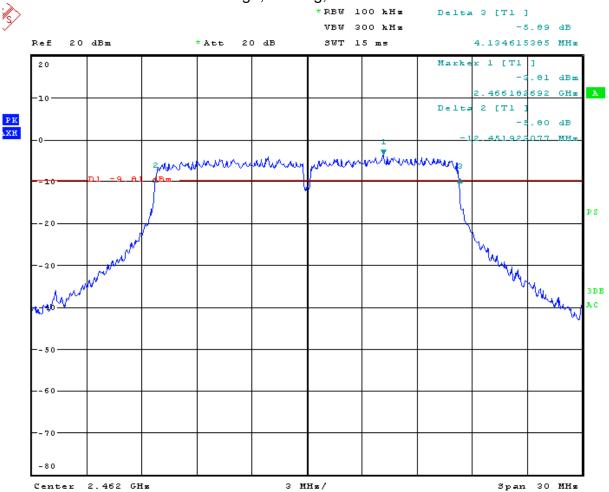
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Tino.Pan@sgs.com

6dB Band Width Test Data CH-High,802.11g,6M mode



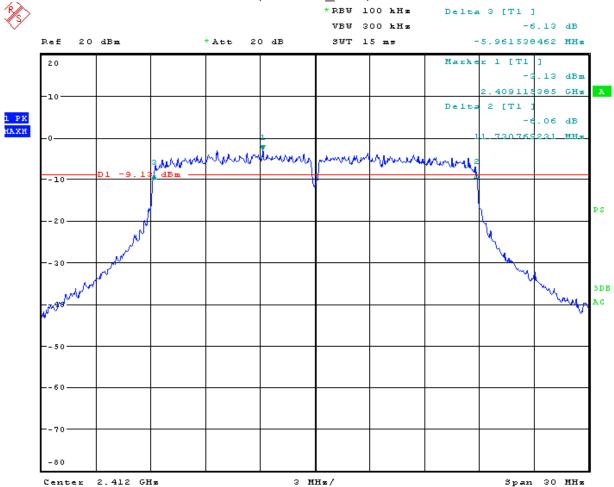
588 West Jindu Road, Songjiang District, Shanghai, China

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Tino.Pan@sgs.com

6dB Band Width Test Data CH-Low, 802.11n 20M,6.5M mode



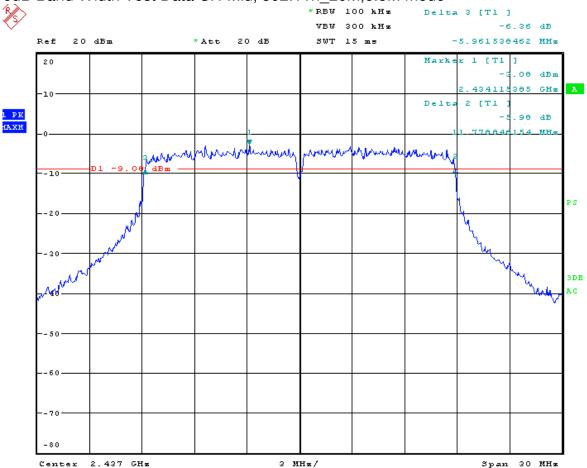
588 West Jindu Road, Songjiang District, Shanghai, China

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6dB Band Width Test Data CH-Mid, 802.11n 20M,6.5M mode



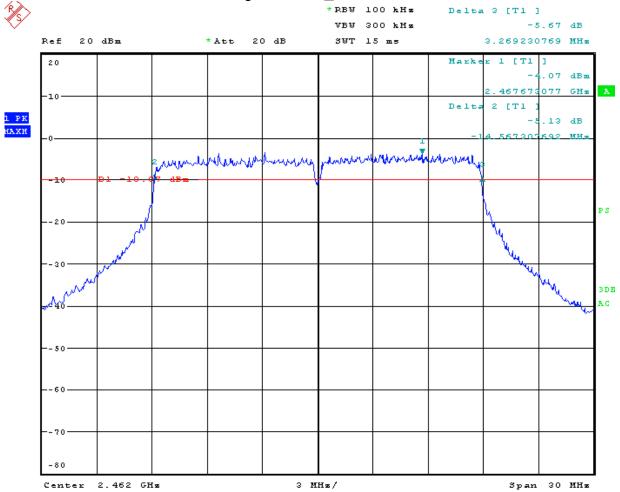
588 West Jindu Road, Songjiang District, Shanghai, China

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6dB Band Width Test Data CH-High,802.11n_20M,6.5M mode



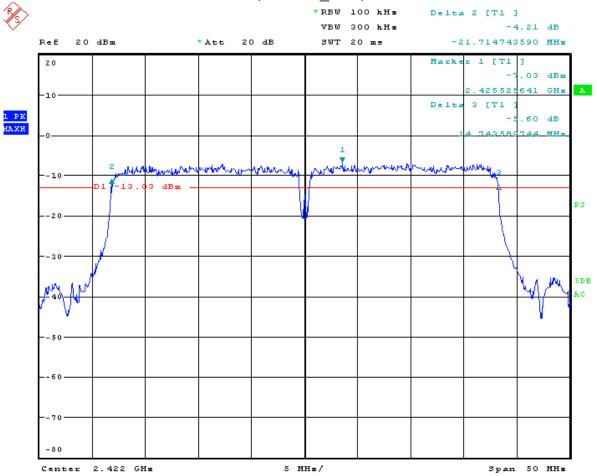
588 West Jindu Road, Songjiang District, Shanghai, China

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6dB Band Width Test Data CH-Low,802.11n 40M,13.5M mode



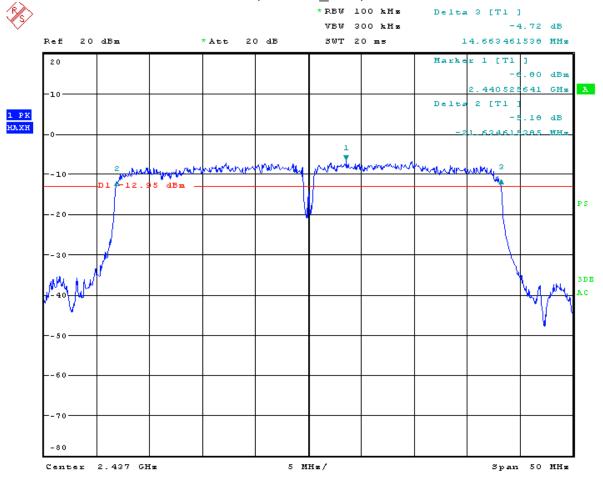
588 West Jindu Road, Songjiang District, Shanghai, China

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6dB Band Width Test Data CH-Mid,802.11n 40M,13.5M mode



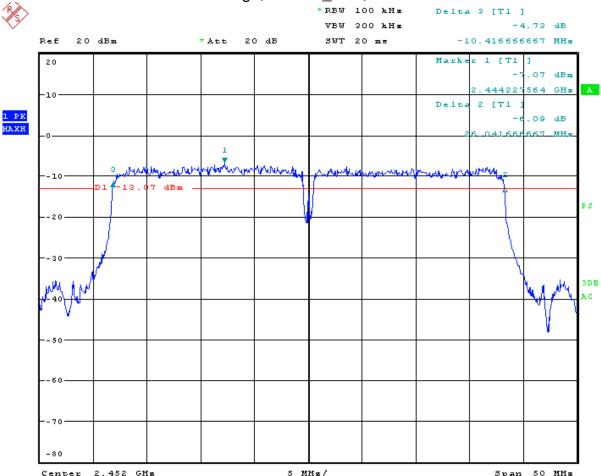
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6dB Band Width Test Data CH-High,802.11n 40M,13.5M mode



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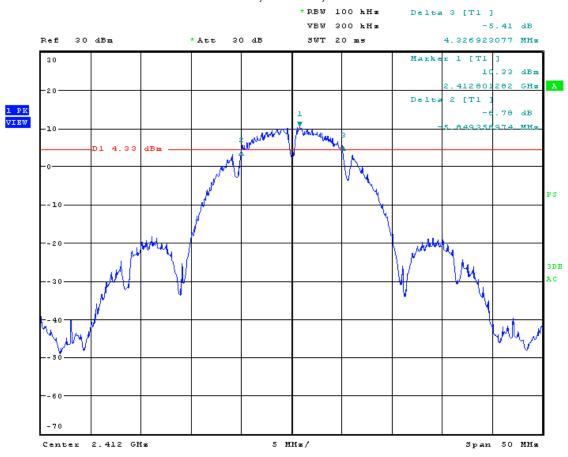
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Chain 2:

6dB Band Width Test Data CH-Low,802.11b,1M mode



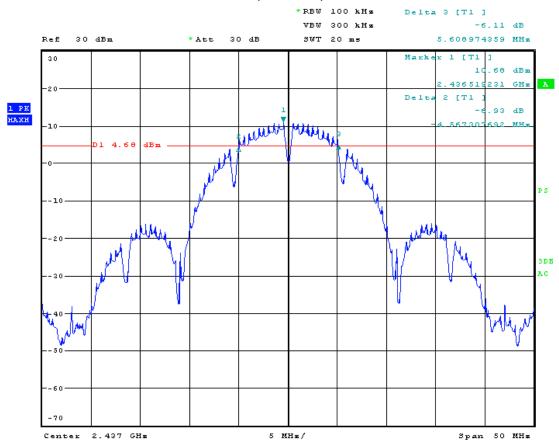
588 West Jindu Road, Songjiang District, Shanghai, China

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6dB Band Width Test Data CH-Mid,802.11b,1M mode



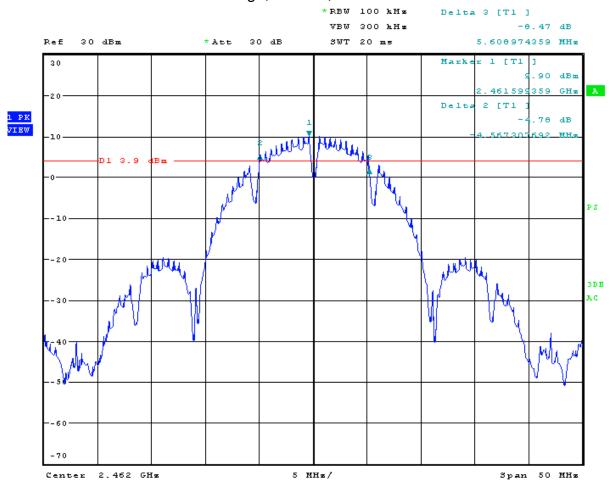
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6dB Band Width Test Data CH-High,802.11b,1M mode



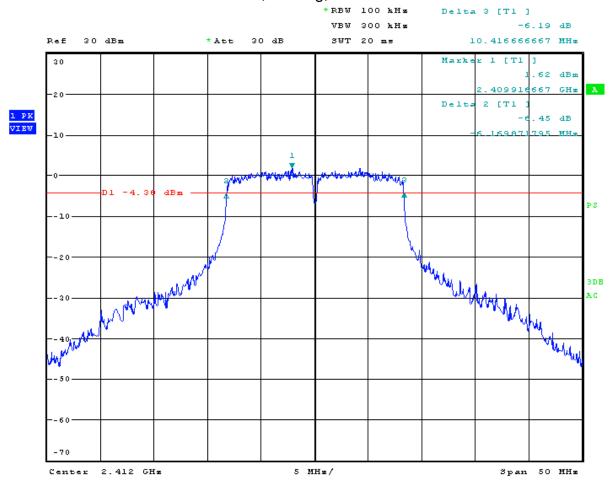
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6dB Band Width Test Data CH-Low,802.11g,6M mode



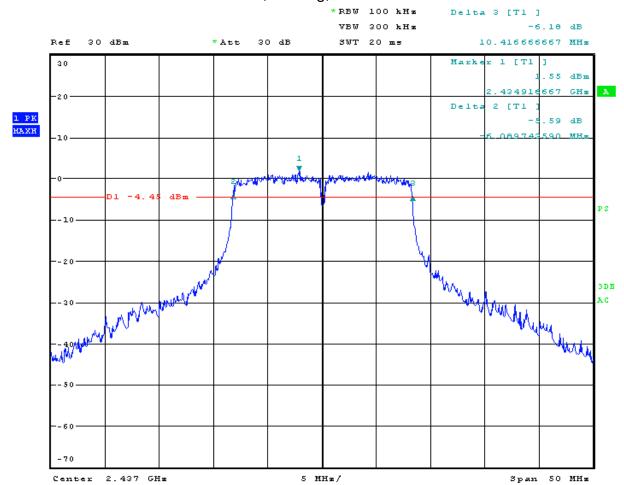
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6dB Band Width Test Data CH-Mid,802.11g,6M mode



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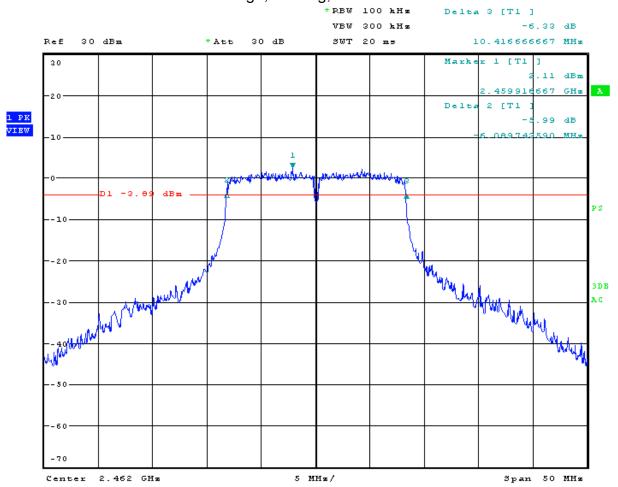
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6dB Band Width Test Data CH-High,802.11g,6M mode



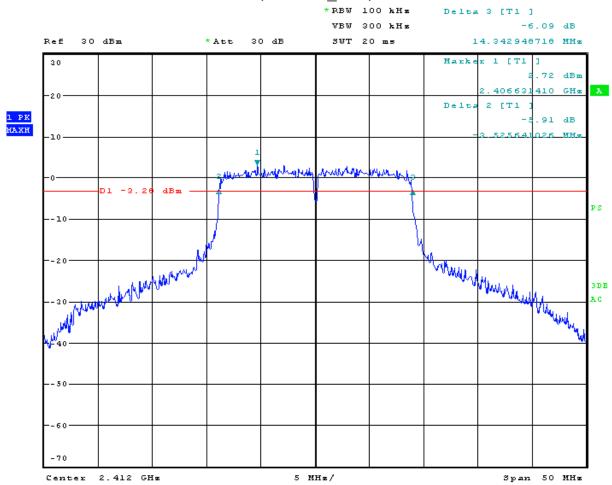
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6dB Band Width Test Data CH-Low, 802.11n 20M,6.5M mode



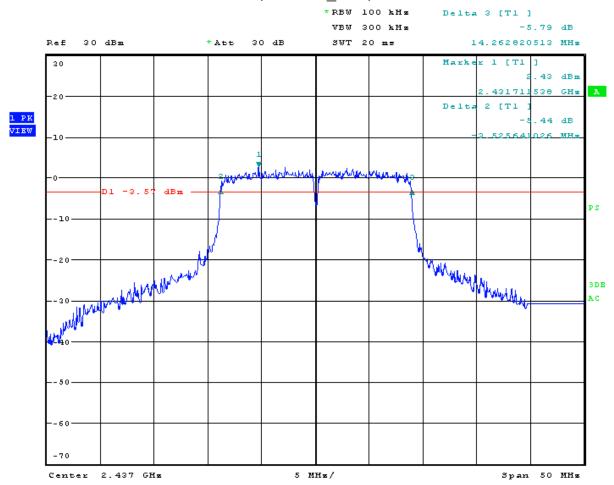
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6dB Band Width Test Data CH-Mid, 802.11n 20M,6.5M mode



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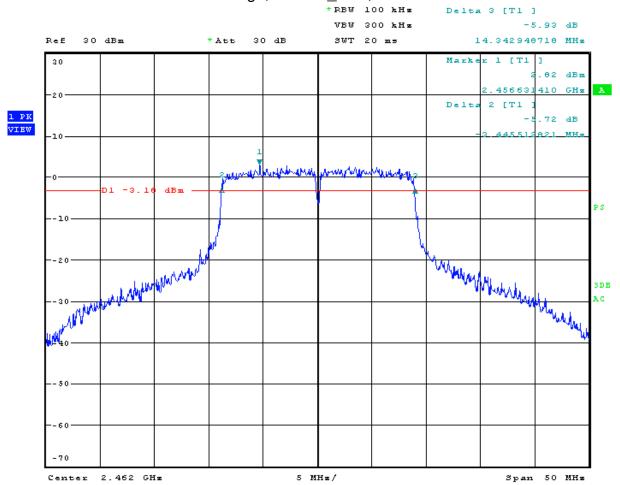
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6dB Band Width Test Data CH-High, 802.11n 20M, 6.5M mode



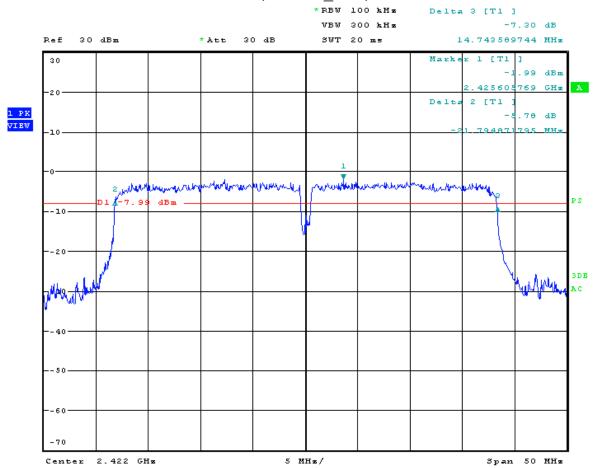
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6dB Band Width Test Data CH-Low,802.11n 40M,13.5M mode



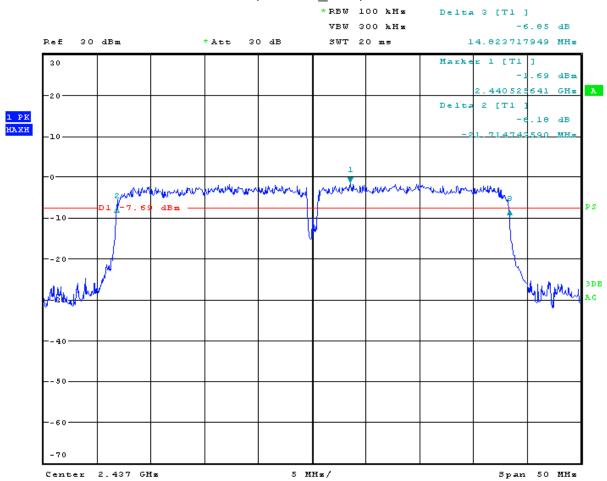
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6dB Band Width Test Data CH-Mid,802.11n 40M,13.5M mode



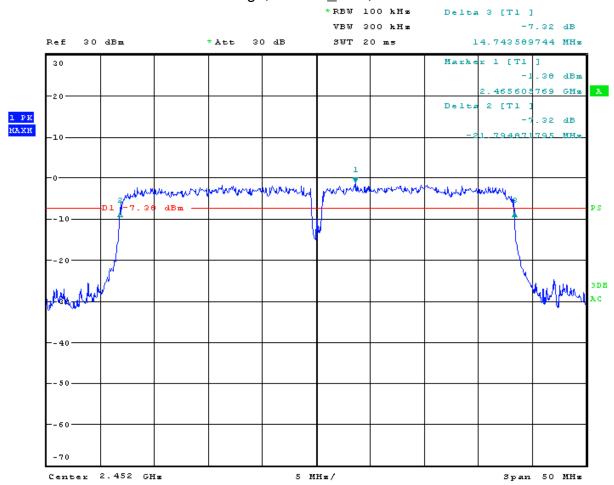
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6dB Band Width Test Data CH-High,802.11n_40M,13.5M mode



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4.3.5 Radiated Emission Band Edge

Test Requirement: FCC Part15 247(c)

Test date: May 26,210 to July 15,2010

Standard Applicable: According to section 15.247(c),in any 100KHz bandwidth outside

the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

Measurement Procedure: The EUT was setup according to ANSI 63.4,2003 and tested

according to DTS test procedure of KDB558074 for compliance to FCC 47 CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 m above ground. The turn table is rotated 360 degrees to determine to the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 menters. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSIC

63.4:2003 on radiated measurement.

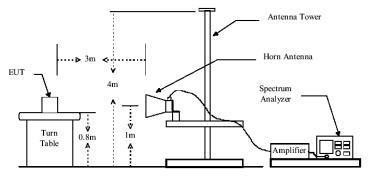
The device is an 802.11n device in a 2×2 MIMO configuration, We have test the radiated emission in chain 1 and chain 2 for 802.11b &802.11g,and the test result shown indicateds the worst case radiated emission in chain 1,and spectrum analyzer

parameters setting as shown below:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

Radiated Emission Test Set-up Frequency Over 1GHz



The field strength is calculated by adding the Antenna Factor, Preamplifier Factor & Cable Factor. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

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Measurement Result: CH Low 802.11b Mode 1M

Horizontal:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.00	46.55	-	-14.22	32.33	-	74.00	54.00	21.67
2400.00	47.32	-	-14.10	33.22	-	74.00	54.00	20.78

Vertical:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.00	45.76	-	-14.22	31.54	-	74.00	54.00	22.46
2400.00	46.34	-	-14.10	32.24	-	74.00	54.00	21.76

CH High 802.11b Mode 1M

Horizontal:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2483.5	48.56	-	-14.13	34.43	-	74.00	54.00	19.57

Vertical:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2483.5	49.56	-	-14.13	35.43	-	74.00	54.00	18.57

- (1)Data of measurement within this frequency range shown"-"in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured
- (2) Radiated emissions measured in the frequency above 1GHz were made with an instrument using Peak detector mode and average detector mode of the emission show in Actual FS colum. When measured Peak value is under AV Limit, It does not need to measure AV value again.
- (3) Factor = Antenna Factor + Cable Factor Preamplifier Factor

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CH Low 802.11g Mode 6M

Horizontal:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.00	45.09	-	-14.22	30.87	-	74.00	54.00	23.13
2400.00	46.32	-	-14.10	32.22	-	74.00	54.00	21.78

Vertical:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.00	46.10	-	-14.22	31.88	-	74.00	54.00	22.12
2400.00	46.77	-	-14.10	32.67	-	74.00	54.00	21.33

CH High 802.11g Mode 6M

Horizontal:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2483.5	48.56	-	-14.13	34.43	-	74.00	54.00	19.57

Vertical:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2483.5	47.47	-	-14.13	33.34	-	74.00	54.00	20.66

- (1)Data of measurement within this frequency range shown"-"in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in the frequency above 1GHz were made with an instrument using Peak detector mode and average detector mode of the emission show in Actual FS colum. When measured Peak value is under AV Limit, It does not need to measure AV value again.
- (3) Factor = Antenna Factor + Cable Factor Preamplifier Factor

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CH Low 802.11n 20M ,6.5M Mode

Horizontal:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.00	46.78	-	-14.22	32.56	-	74.00	54.00	21.44
2400.00	48.77	-	-14.10	34.67	-	74.00	54.00	19.33

Vertical:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.00	46.42	-	-14.22	32.2	-	74.00	54.00	21.8
2400.00	47.33	-	-14.10	33.23	-	74.00	54.00	20.77

CH High 802.11n 20M ,6.5M Mode

Horizontal:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2483.50	49	-	-14.13	34.87	-	74.00	54.00	19.13

Vertical:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2483.50	49.45	-	-14.13	35.32	-	74.00	54.00	18.68

- (1)Data of measurement within this frequency range shown"-"in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in the frequency above 1GHz were made with an instrument using Peak detector mode and average detector mode of the emission show in Actual FS colum. When measured Peak value is under AV Limit, It does not need to measure AV value again.
- (3) Factor = Antenna Factor + Cable Factor Preamplifier Factor

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CH Low 802.11n 40M,13.5M Mode

Horizontal:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.00	46.34	-	-14.22	32.12	-	74.00	54.00	21.88
2400.00	47.53	-	-14.10	33.43	-	74.00	54.00	20.57

Vertical:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.00	45.55	-	-14.22	31.33	-	74.00	54.00	22.67
2400.00	48.22	-	-14.10	34.12	-	74.00	54.00	19.88

CH High 802.11n_40M,13.5M Mode

Horizontal:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2483.50	49.69	-	-14.13	35.56	-	74.00	54.00	18.44

Vertical:

Frequency (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	AV Level (dBuV/m)	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2483.50	50.34	-	-14.13	36.21	-	74.00	54.00	17.79

- (1)Data of measurement within this frequency range shown"-"in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in the frequency above 1GHz were made with an instrument using Peak detector mode and average detector mode of the emission show in Actual FS colum. When measured Peak value is under AV Limit, It does not need to measure AV value again.
- (3) Factor= Antenna Factor+Cable Factor-Preamplifier Factor

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4.3.6 Conducted Spurious Emission Test

Test Requirement: FCC Part15 247(c)

Test date: May 26,2010 to July 5,2010

Standard Applicable: According to section 15.247(c),in any 100KHz bandwidth outside

the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

Measurement Procedure: 1. Place the EUT on the table and set it in transmitting mode.

2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating

frequency.

4. Set the spectrum analyzer as RBW=100KHz VBW=300KHz,

Sweep = auto

6. Repeat above procedures until all frequency measured were

complete.

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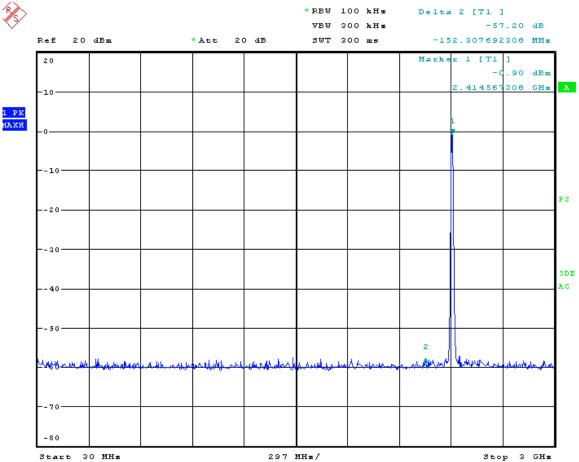
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Measurement Result:

Chain 1:

Conducted spurious Emission Measurement Result (802.11b)1M

CH Low 30MHz-3GHz



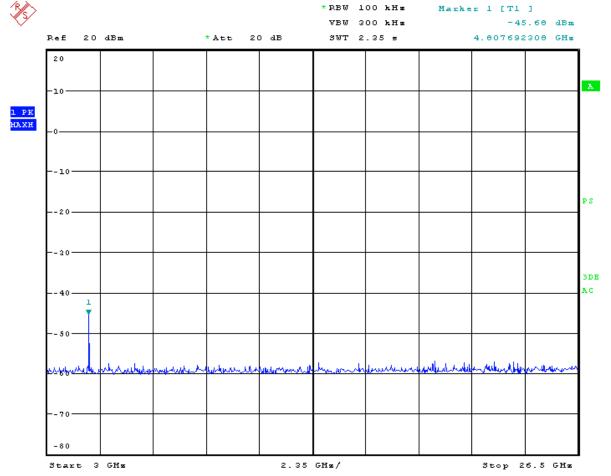
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CH Low 3GHz-26.5GHz

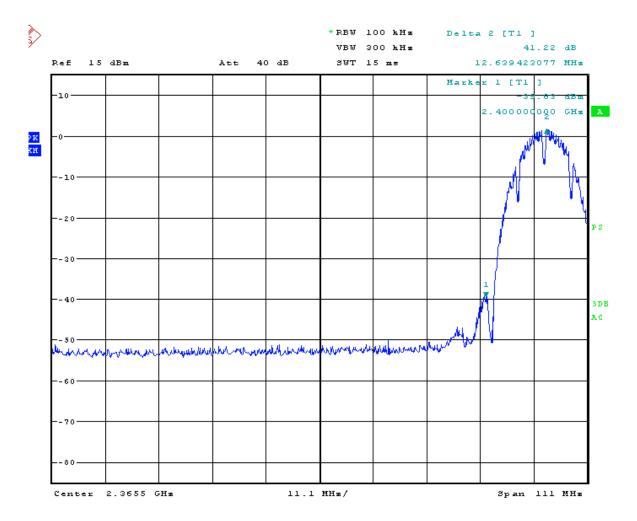


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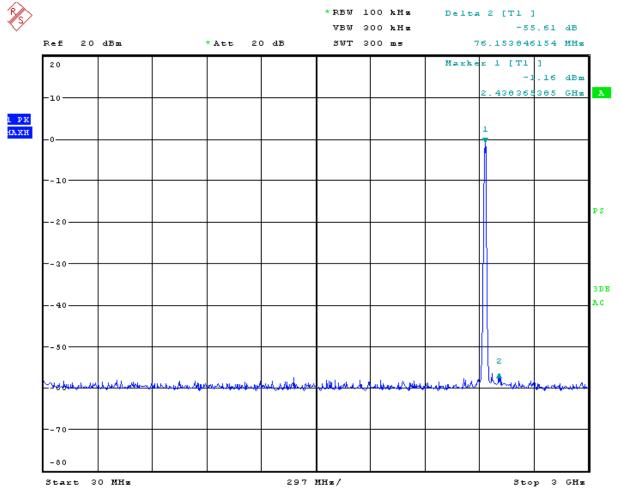
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Ch Mid 30MHz-3GHz



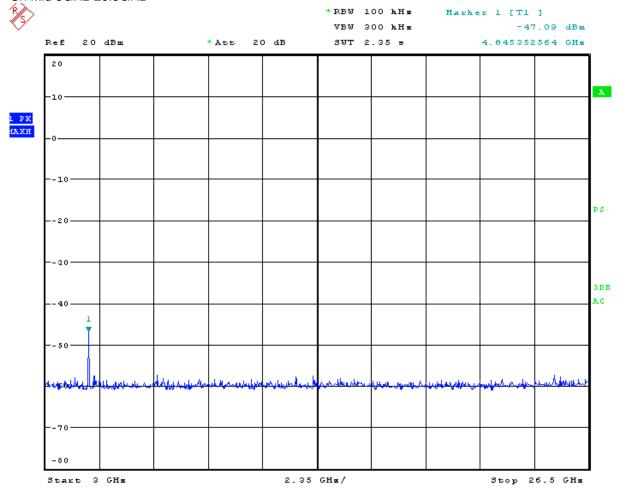
588 West Jindu Road, Songjiang District, Shanghai, China

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Ch Mid 3GHz-26.5GHz



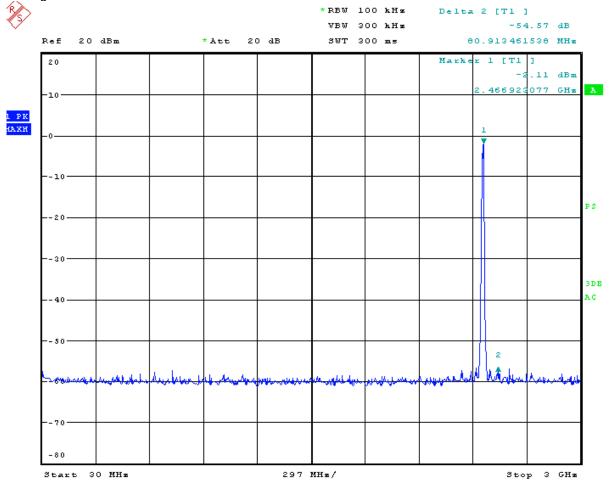
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Ch High 30MHz-3GHz



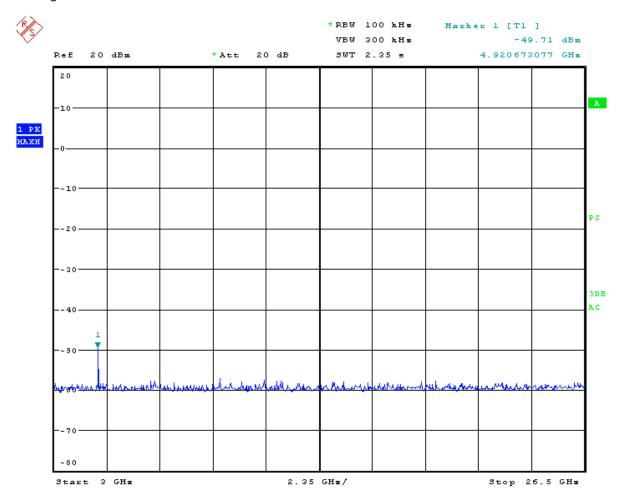
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Ch High 3GHz-26.5GHz



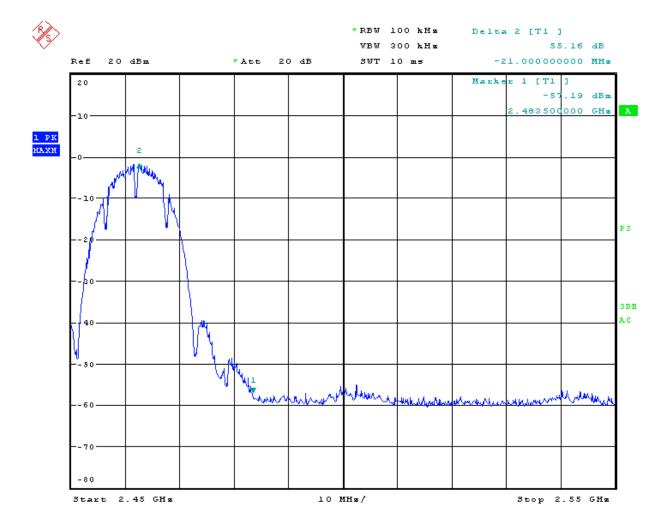
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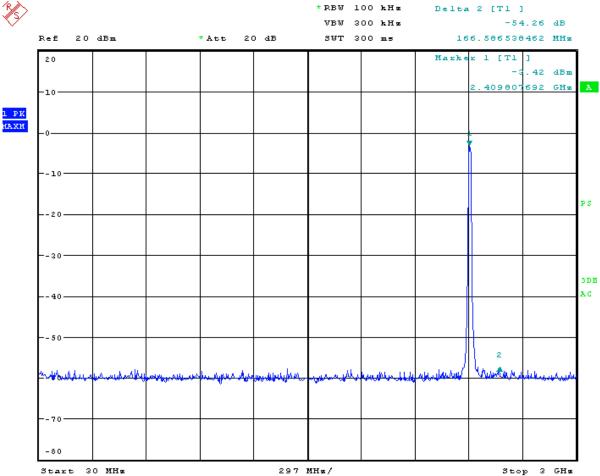
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Conducted Spurious Emission Measurement Result(802.11g),6M

Ch Low 30MHz-3GHz



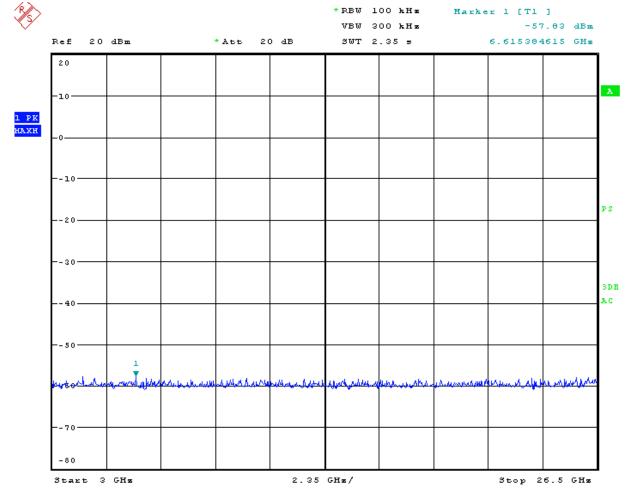
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Ch Low 3GH-26.5GHz

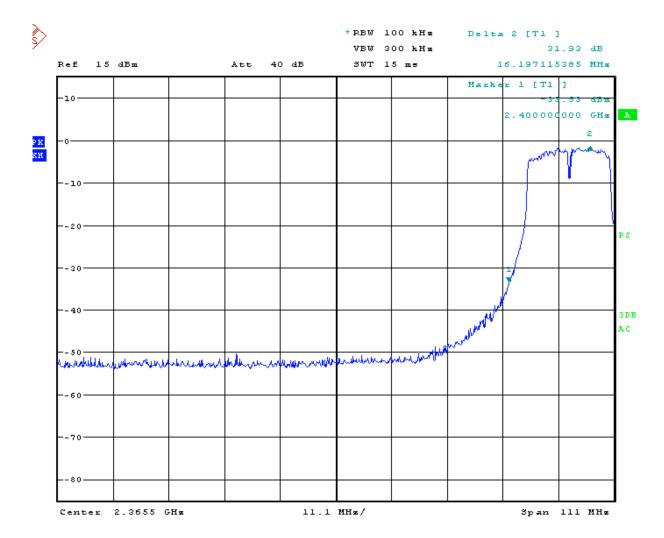


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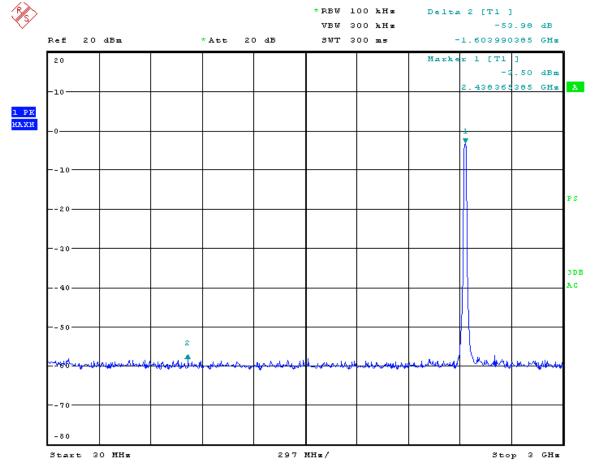
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Ch Mid 30MHz-3GHz



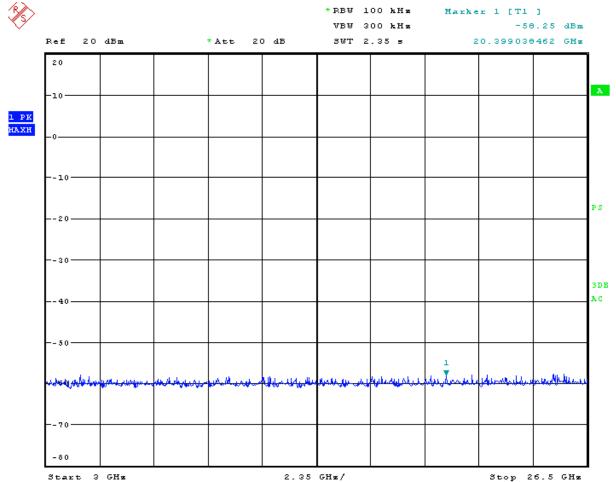
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Ch Mid 3GHz-26.5GHz



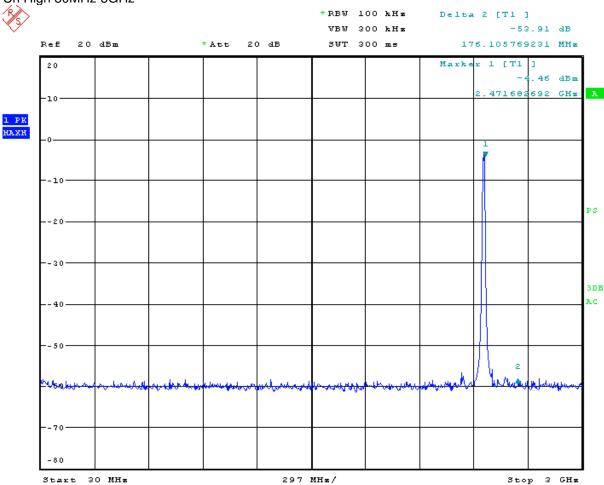
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Ch High 30MHz-3GHz



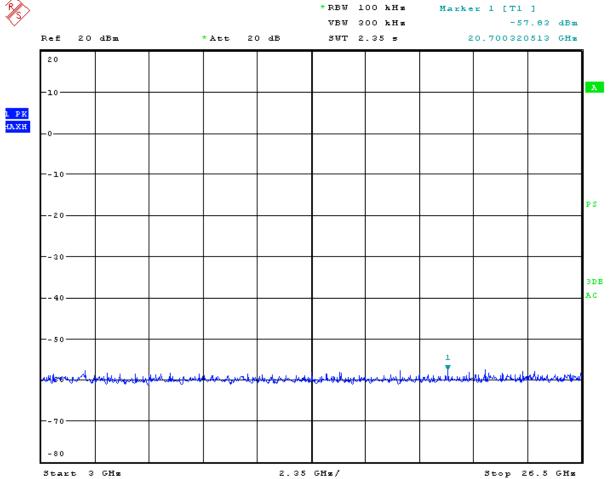
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Ch High 3GHz-26.5GHz

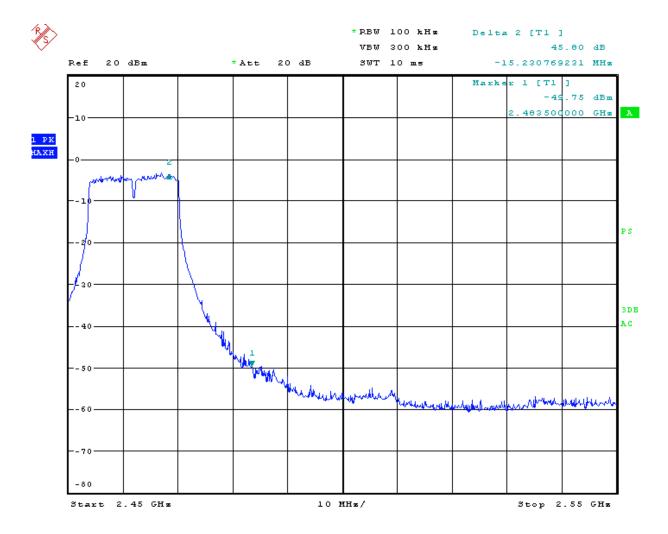


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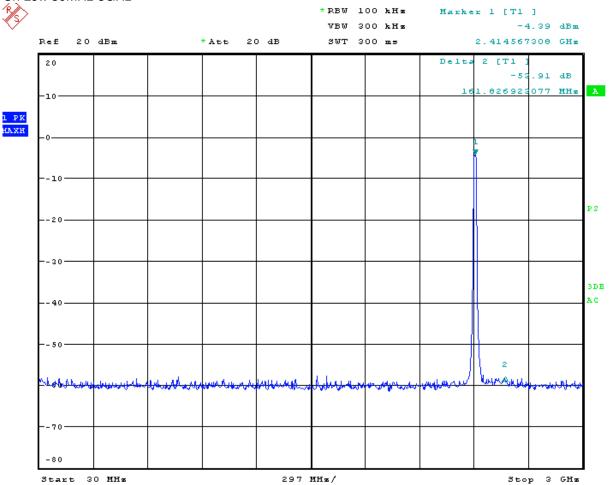
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Conducted Spurious Emission Measurement Result(802.11n_20M)6.5M

Ch Low 30MHz-3GHz



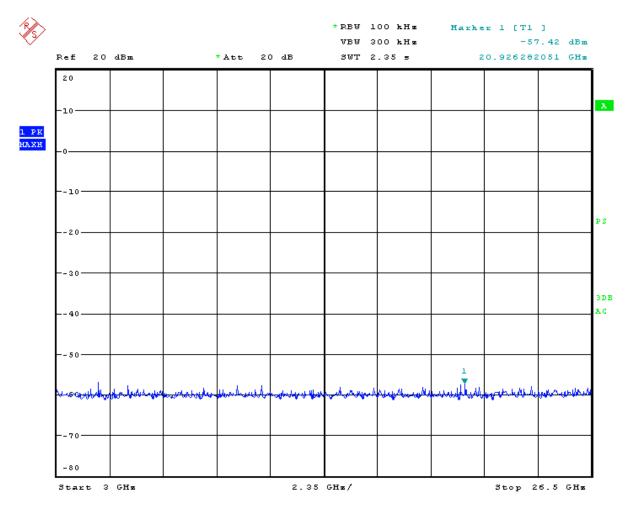
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Ch Low 3GHz-26.5GHz

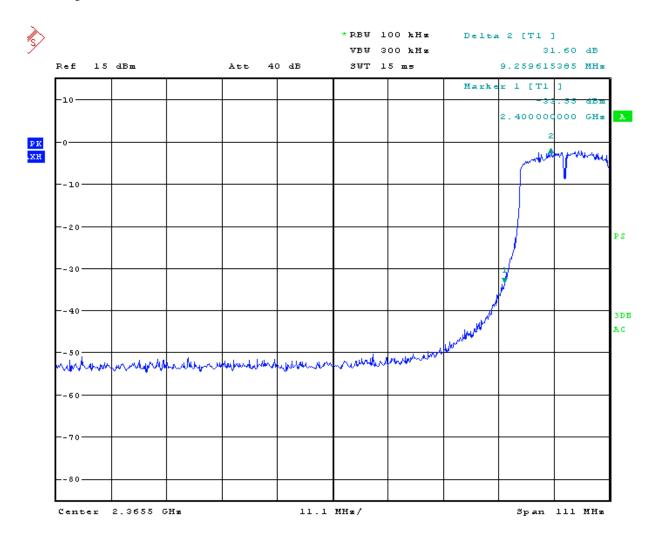


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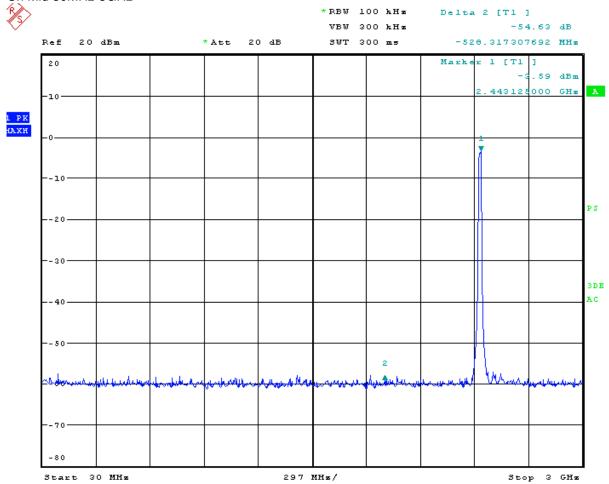
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Ch Mid 30MHz-3GHz



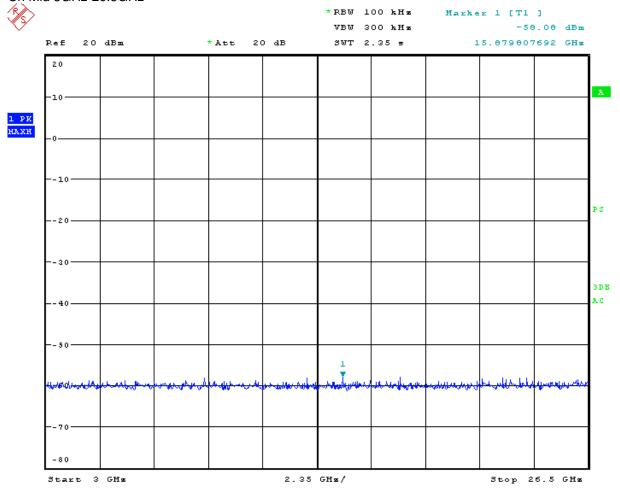
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Ch Mid 3GHz-26.5GHz



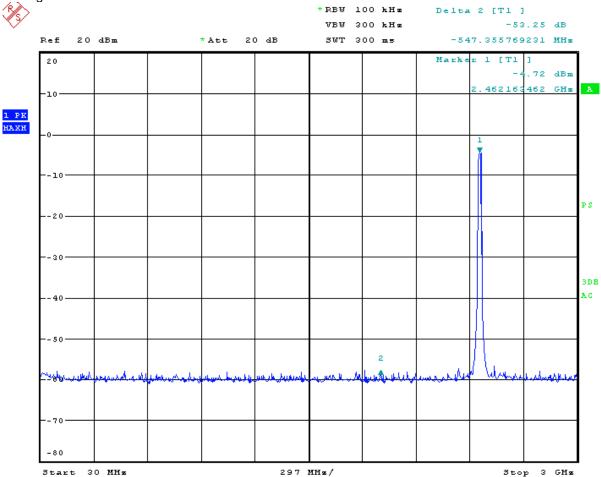
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Ch High 30MHz-3GHz



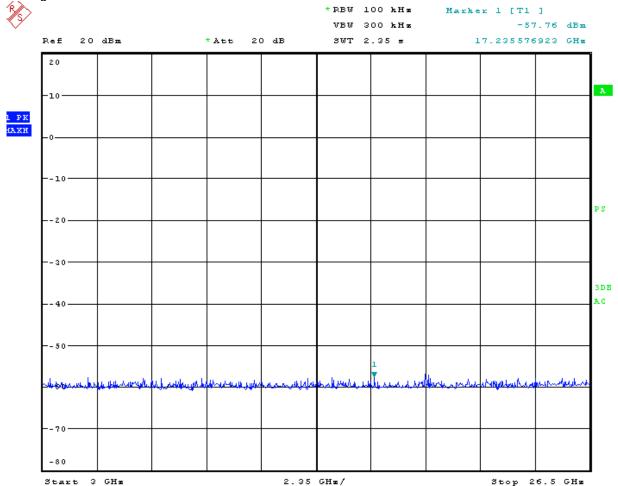
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Ch High 3GHz-26.5GHz

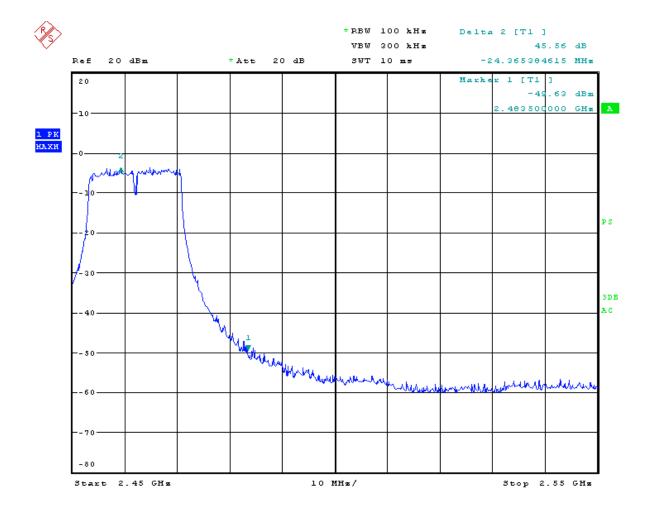


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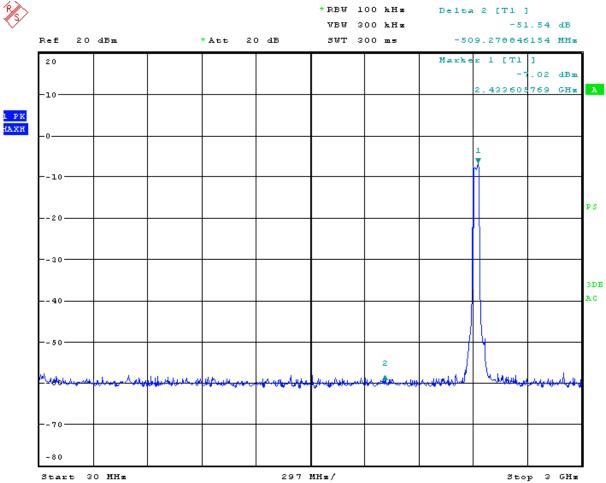
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Conducted Spurious Emission Measurement Result(802.11n_40M)13.5M

Ch Low 30MHz-3GHz



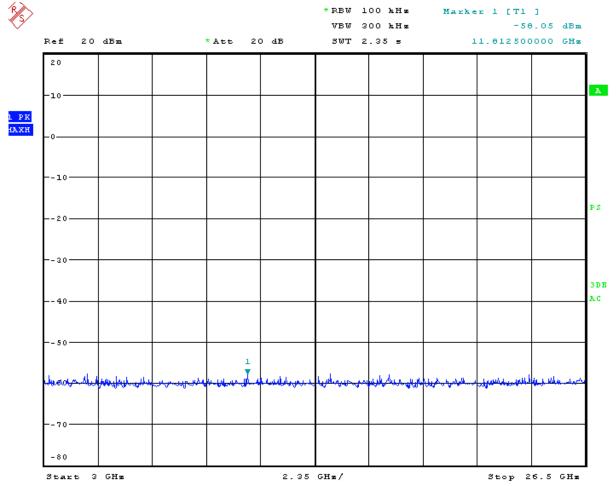
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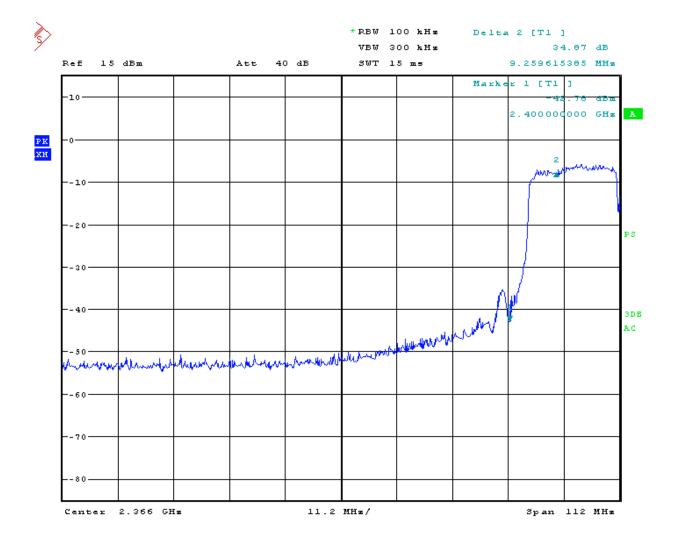
Ch Low 3GHz-26.5GHz



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Ch Mid 30MHz-3GHz * RBW 100 kHz Delta 2 [T1] 300 kHz -50.42 dB 20 dBm 20 dB -1.646026923 GHz Ref * Att 300 ms 20 68 dBm зрв АC 297 MHz/ Stop 3 GHz 30 MHz Start

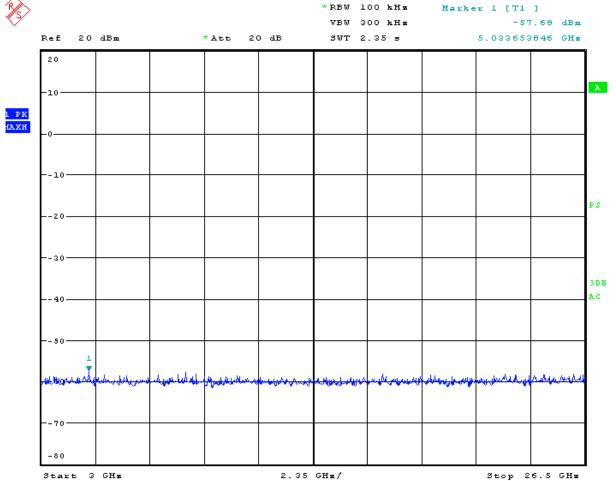
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Ch Mid 3GHz-26.5GHz



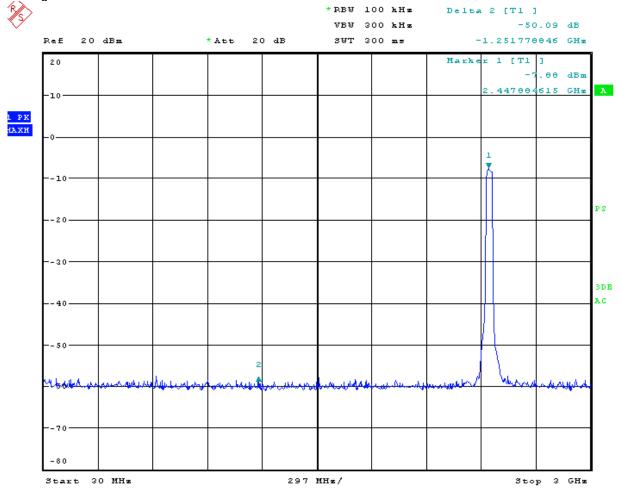
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Ch High 30MHz-3GHz



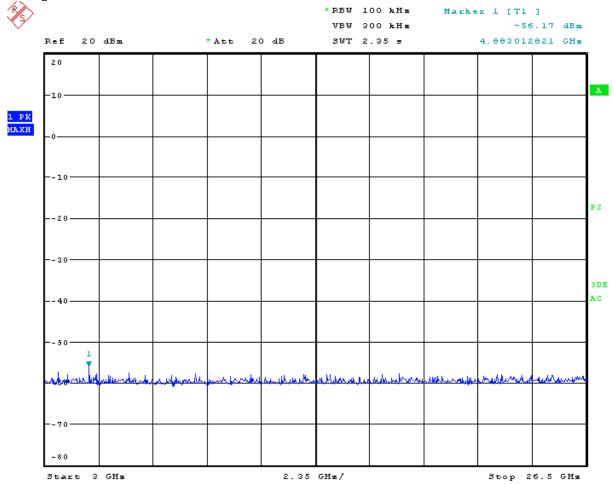
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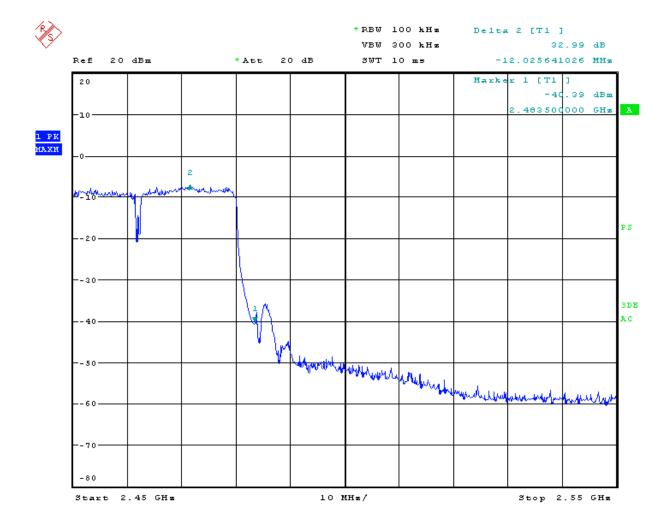
Ch High3GHz-26.5GHz



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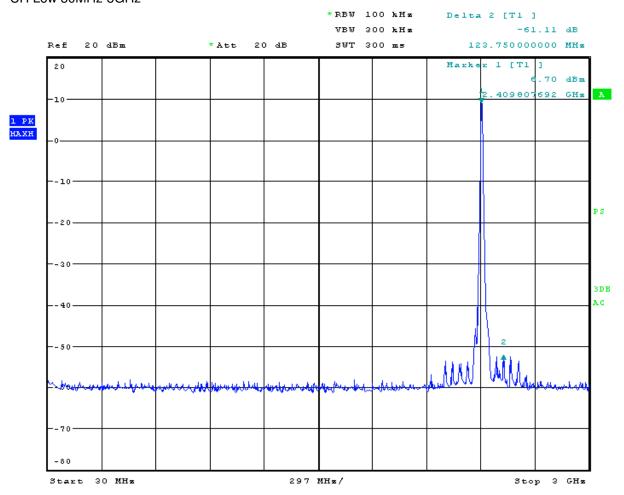
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Chain 2:

Conducted spurious Emission Measurement Result (802.11b)1M CH Low 30MHz-3GHz



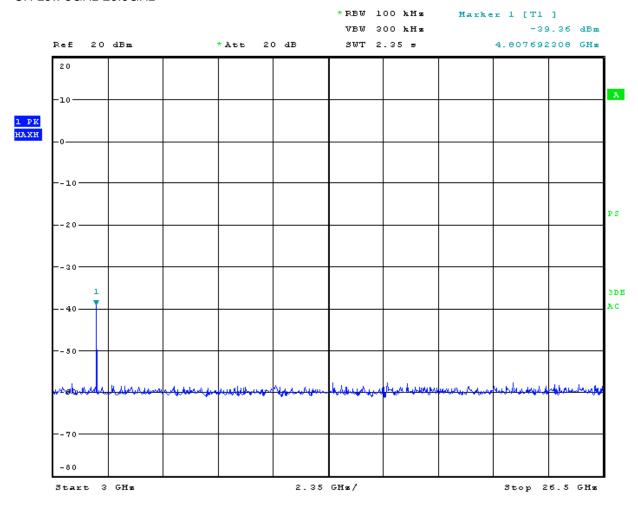
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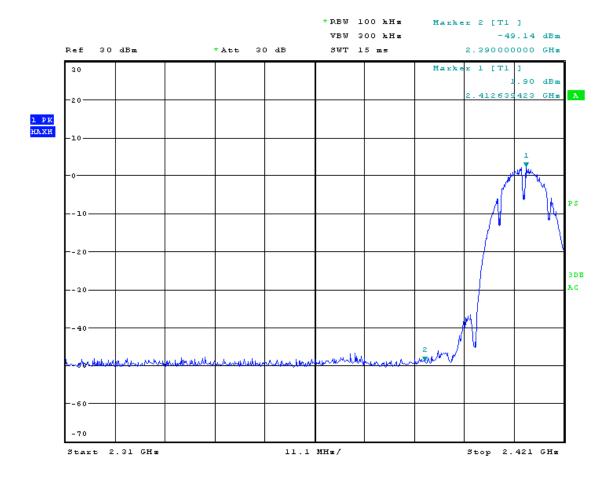
CH Low 3GHz-26.5GHz



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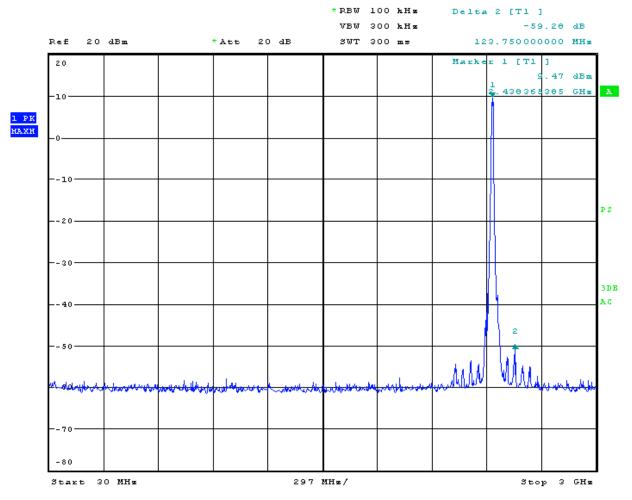
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Ch Mid 30MHz-3GHz



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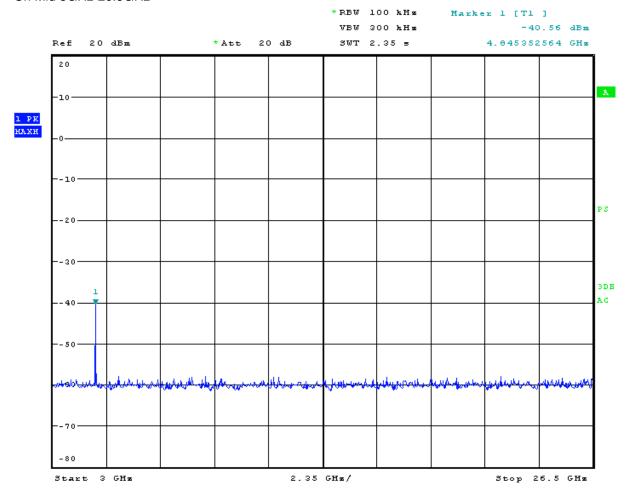
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Ch Mid 3GHz-26.5GHz



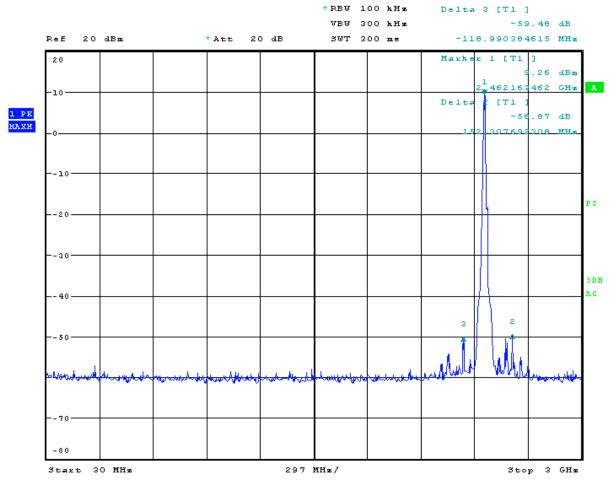
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Ch High 30MHz-3GHz



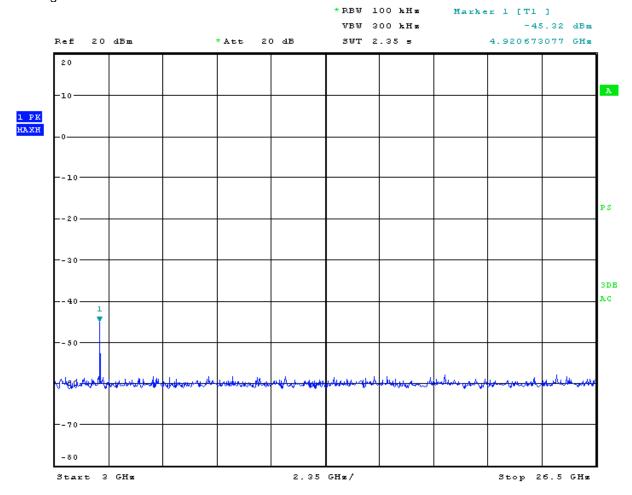
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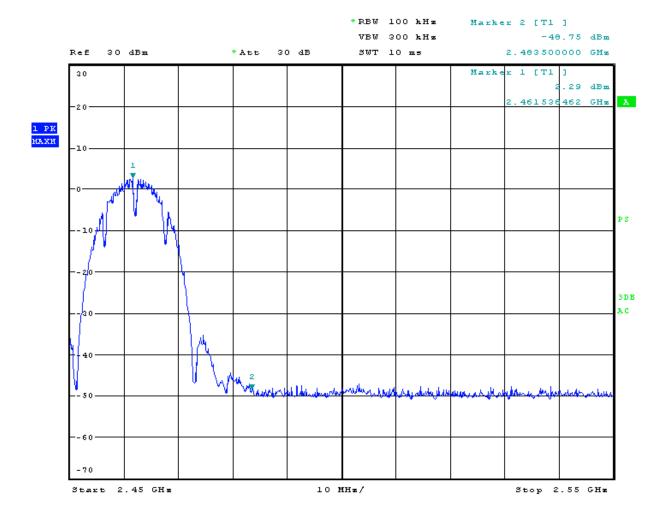
Ch High 3GHz-26.5GHz



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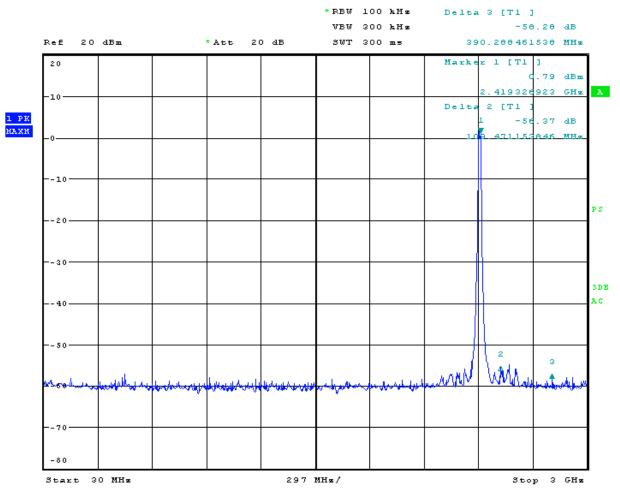
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Conducted Spurious Emission Measurement Result(802.11g),6M

Ch Low 30MHz-3GHz



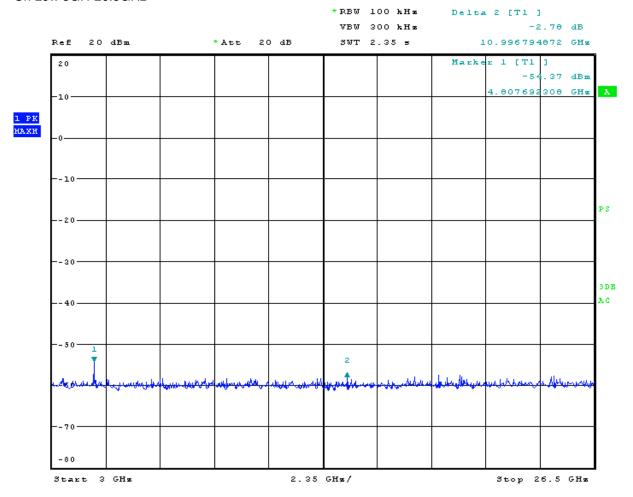
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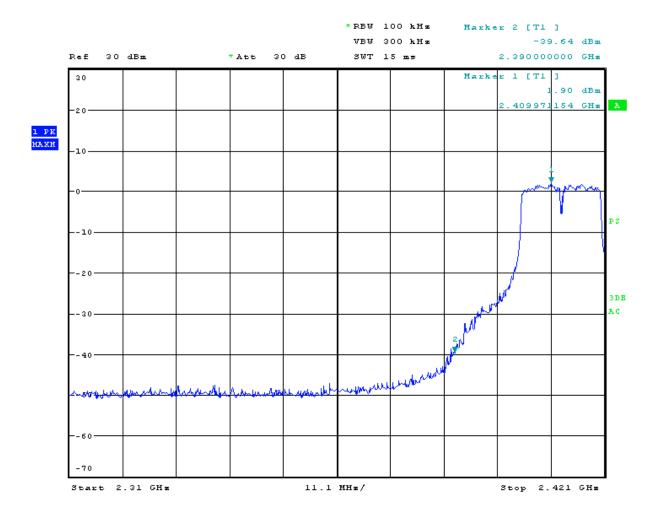
Ch Low 3GH-26.5GHz



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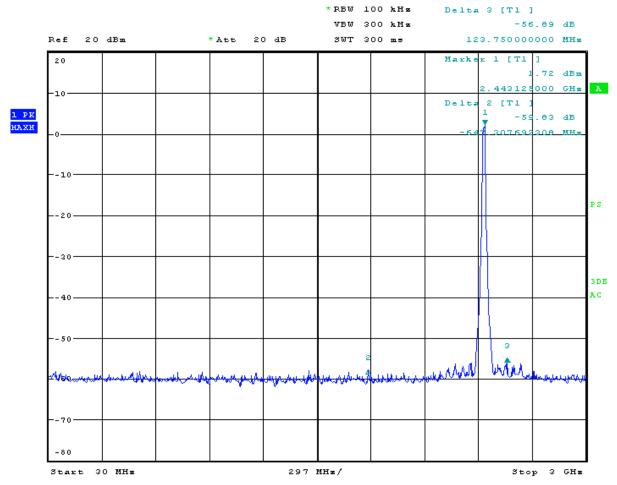
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Ch Mid 30MHz-3GHz



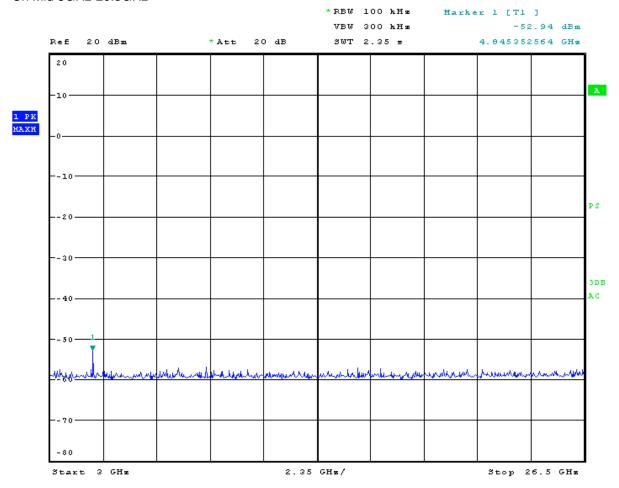
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Ch Mid 3GHz-26.5GHz



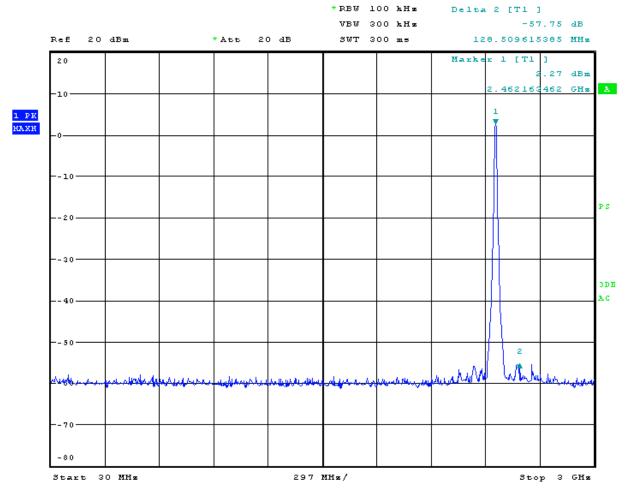
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Ch High 30MHz-3GHz



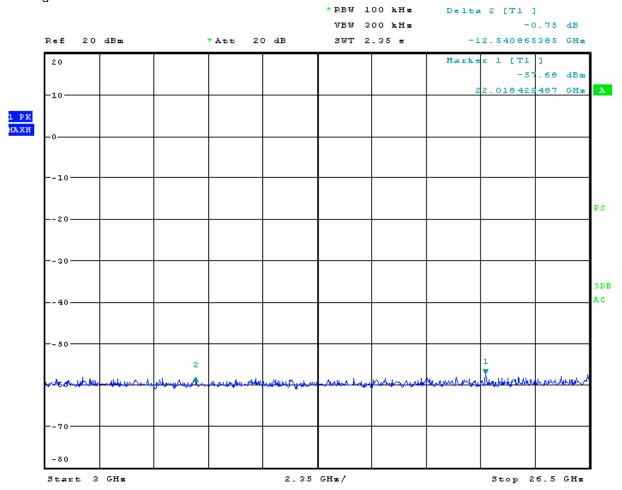
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Ch High 3GHz-26.5GHz

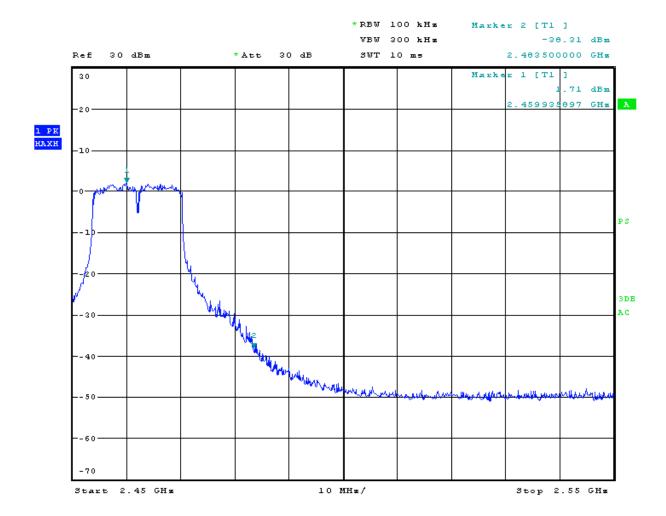


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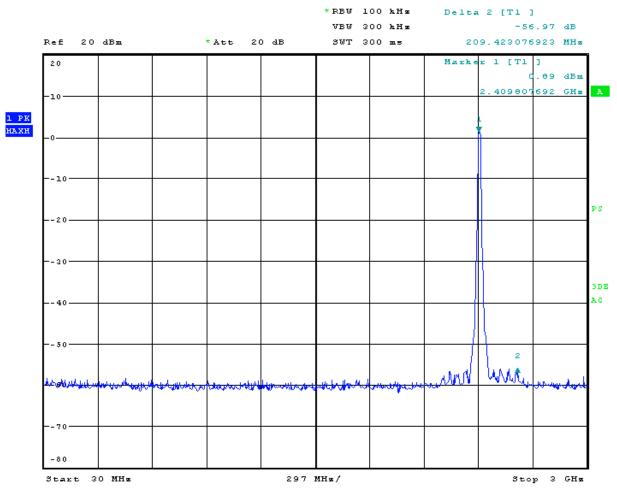
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Conducted Spurious Emission Measurement Result(802.11n_20M)6.5M

Ch Low 30MHz-3GHz



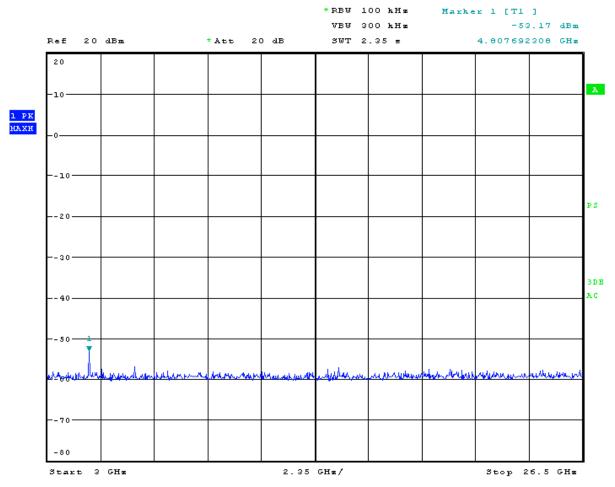
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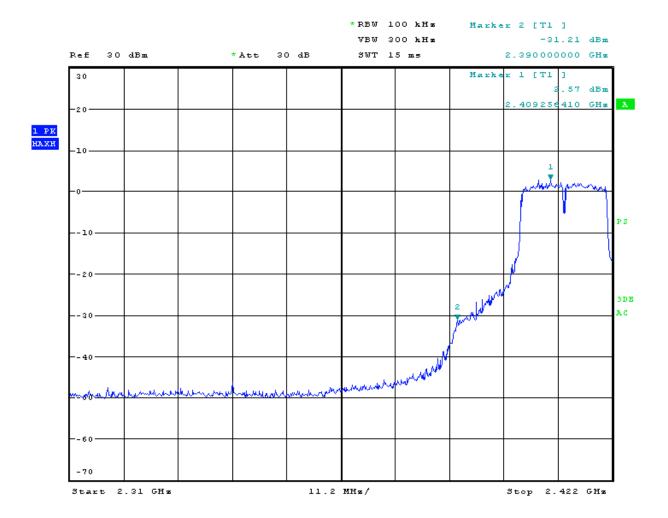
Ch Low 3GHz-26.5GHz



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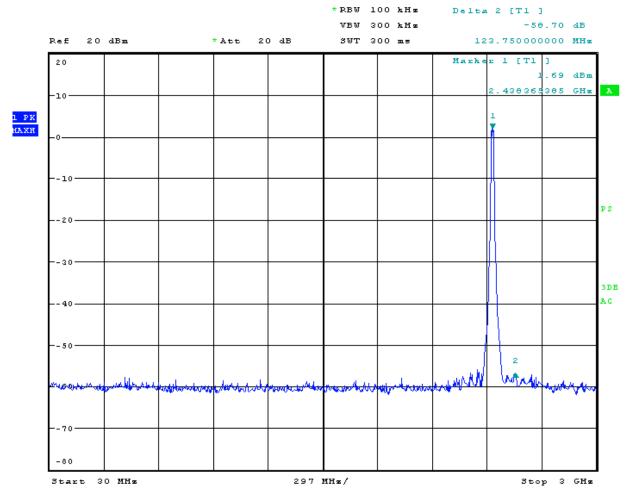
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Ch Mid 30MHz-3GHz



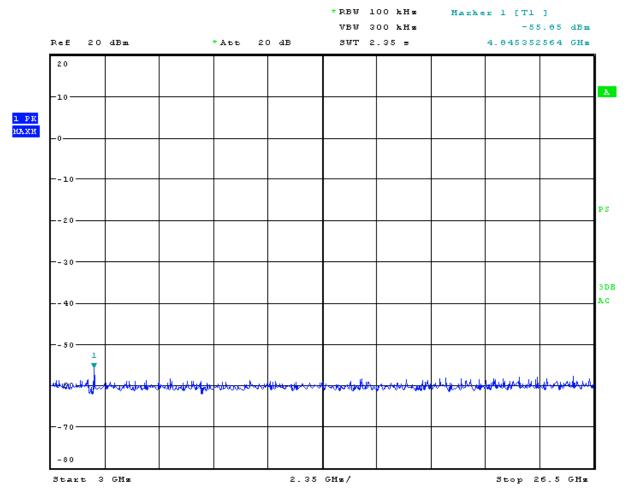
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Ch Mid 3GHz-26.5GHz



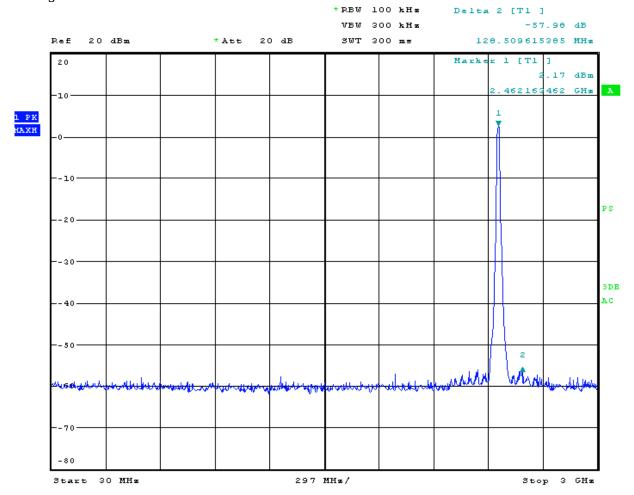
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Ch High 30MHz-3GHz



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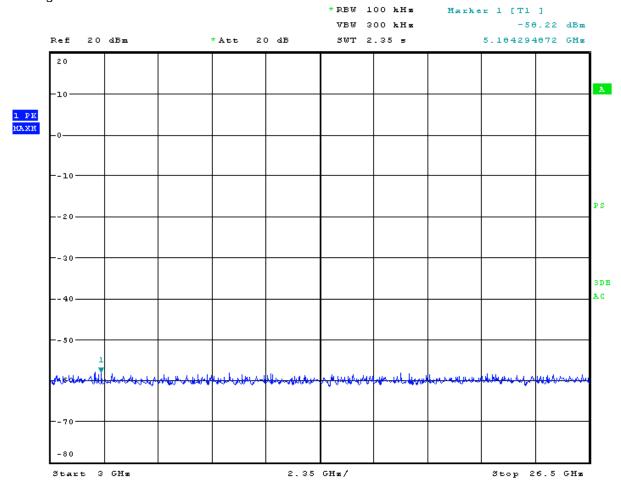
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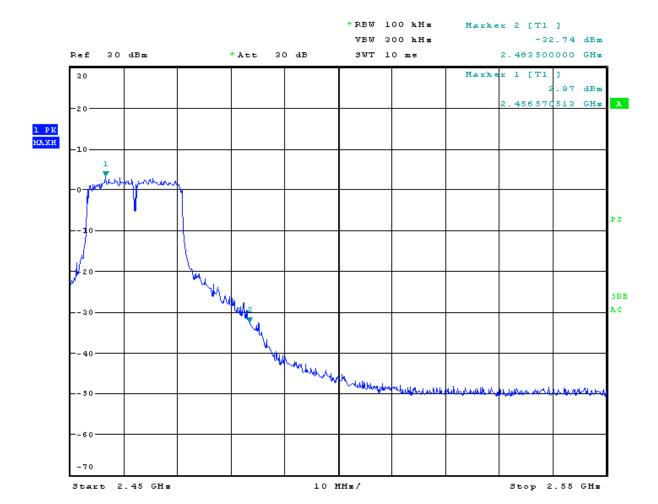
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Ch High 3GHz-26.5GHz



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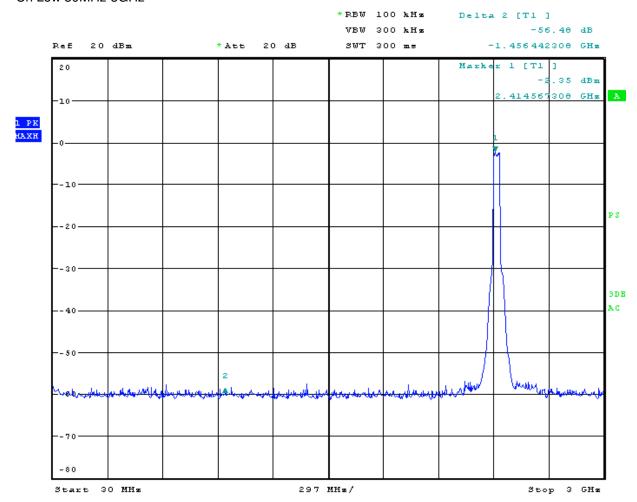
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Conducted Spurious Emission Measurement Result(802.11n_40M)13.5M

Ch Low 30MHz-3GHz



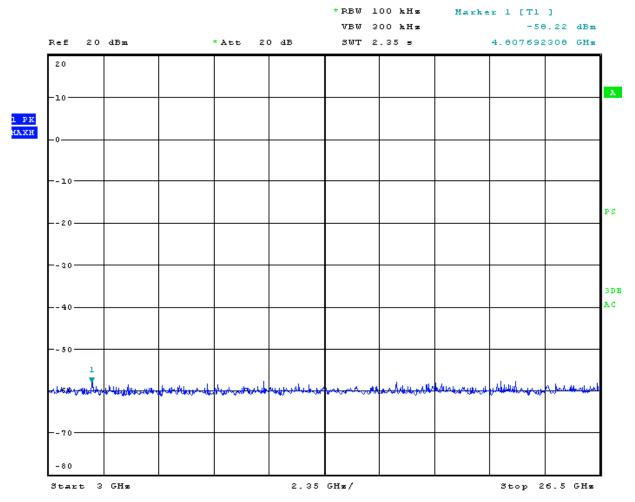
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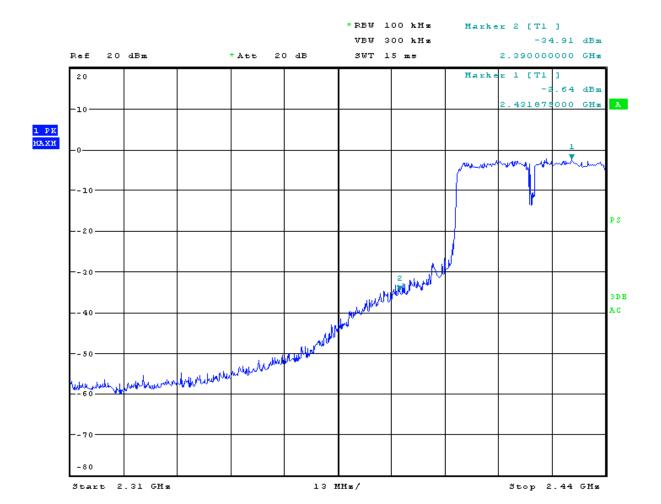
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Ch Low 3GHz-26.5GHz



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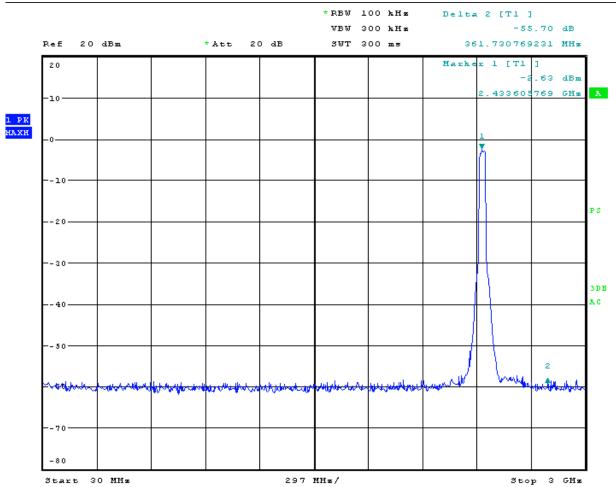
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Ch Mid 30MHz-3GHz



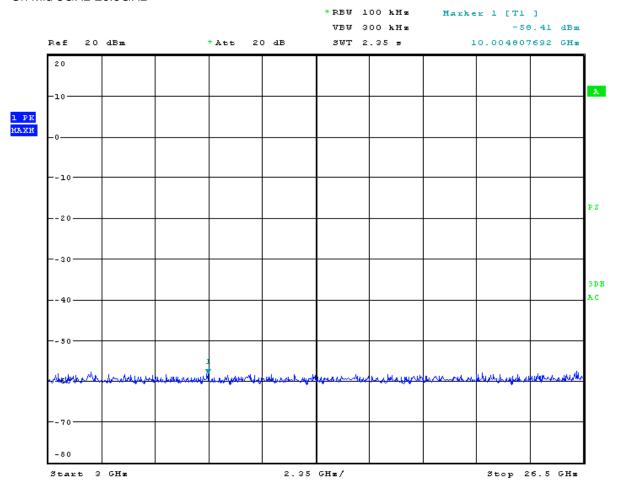
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Ch Mid 3GHz-26.5GHz



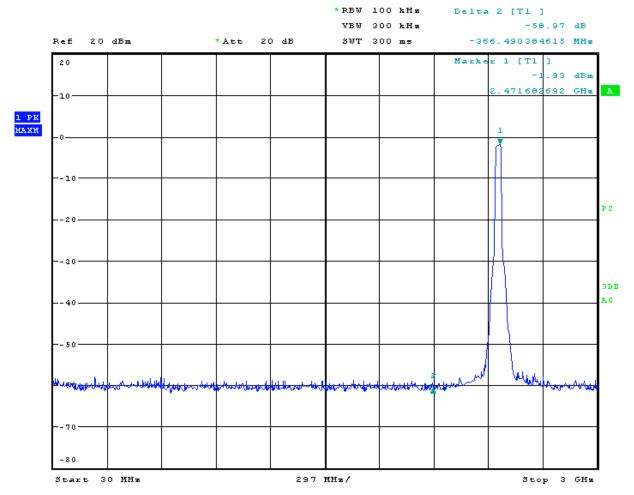
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Ch High 30MHz-3GHz



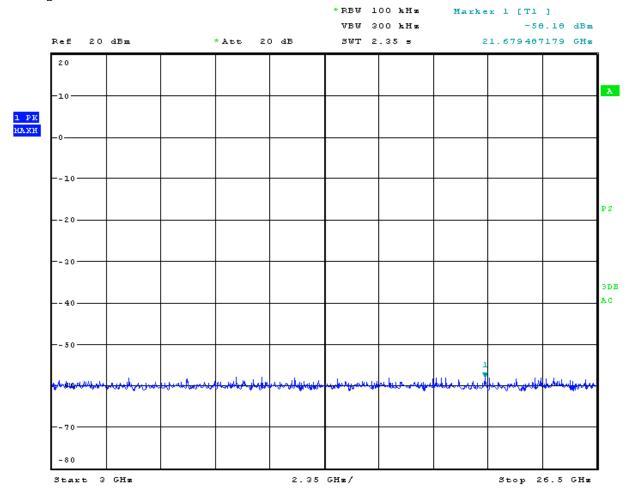
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Ch High3GHz-26.5GHz



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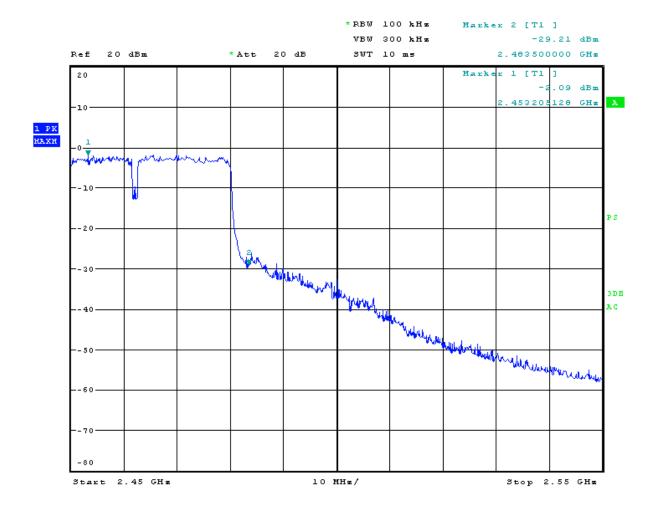
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4.3.7 **Spurious Radiated Emission Test**

FCC Part15 247(c) **Test Requirement:**

May 26,2010 to July 2,2010 Test date:

According to section 15.247(c), all other emissions outside these Standard Applicable:

bands shall not exceed the general radiated emission limits specified in section15.209(a). And according to section 15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements:to the tenth harmonic of the highest fundamental frequency or to 40GHz, which is lower.

1. The EUT was placed on a turn table which is 0.8m above Measurement Procedure:

ground plane.

2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.

3. EUT is set 3m away from the receiving antenna which varied

from 1m to 4m to find out the highest emissions.

Test instrumentation resolution bandwidth 120 kHz and Quasi-Peak detector applies (30 MHz - 1000 MHz). 1MHz resolution bandwidth and Peak detector apply (1000 MHz – 25GHz)

Above 1GHz

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO.

4. Maximum procedure was performed on the six highest

emissions to ensure EUT compliance.

5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

6. Repeat above procedures until all frequency measured were

complete.

7. The device is an 802.11n device in a 2×2 MIMO configuration, We have test the radiated emission in chain 1 and chain 2 for 802.11b &802.11g, and the test result shown indicateds the worst

case radiated emission in chain 1.

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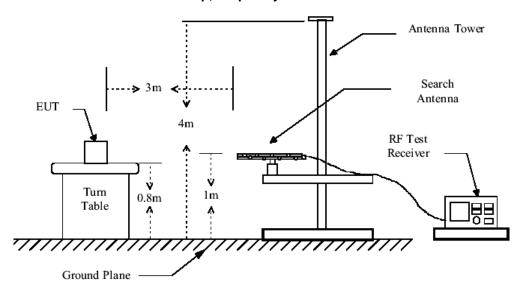
Telephone: +86 (0) 21 6191 5666

Report No.: SHEMO10050056504

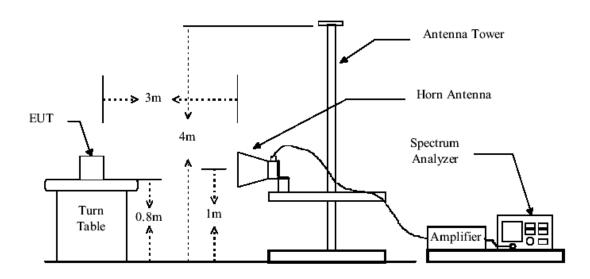
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Radiated Test Set-up: Radiated Emission Test Set-up, Frequency Below 1000MHz



Radiated Emission Test Set-up Frequency Over 1GHz



Low nosie amplifier was used below 1GHz, High pass Filter was used above 3GHz. Between 1G and 3GHz, we did not use any amplifier or filter.

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Operation Mode:802.11b TX CH Low 1M

30MHz~1GHz Spurious Emissions .Quasi-Peak Measurement

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
124	13.4	0.2	24.6	47.32	36.32	46.00	Vertical
124	13.4	0.2	24.6	42.46	31.46	46.00	Horizontal

^{1~25} GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Antenna polarizatio n
4824.0	31.0	1.2	0.5	43.4	66.5	55.8	74	Vertical
7236.0	35.5	1.7	0.6	43.1	38.6	33.3	74	V
9648.0	37.7	2.1	0.9	43.3	42.9	40.3	74	V
4824.0	31.0	1.2	0.5	43.4	69.3	58.6	74	Horizontal
7236.0	35.5	1.7	0.6	43.1	37.7	32.4	74	Н
9648.0	37.7	2.1	0.9	43.3	43.8	41.2	74	Н

Average Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarizatio n
4824.0	31.0	1.2	0.5	43.4	55.0	44.3	54	Vertical
7236.0	35.5	1.7	0.6	43.1	34.1	28.8	54	V
9648.0	37.7	2.1	0.9	43.3	27.9	25.3	54	V
4824.0	31.0	1.2	0.5	43.4	44.9	34.2	54	Horizontal
7236.0	35.5	1.7	0.6	43.1	34.2	28.9	54	Н
9648.0	37.7	2.1	0.9	43.3	35.8	33.2	54	Н

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Fiter - Preamplifier Factor

Operation Mode:802.11b TX CH Mid 1M

30MHz~1GHz Spurious Emissions .Quasi-Peak Measurement

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
124	13.4	0.2	24.6	47.35	36.35	46.00	Vertical
124	13.4	0.2	24.6	42.56	31.56	46.00	Horizontal

^{1~25} GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarizatio n
4874.0	31.1	1.3	0.5	43.5	65.0	54.4	74	Vertical
7311.0	35.7	1.7	0.6	43.1	39.9	34.8	74	V
9748.0	37.8	2.1	0.9	43.0	41.5	39.3	74	V
4874.0	31.1	1.3	0.5	43.5	65.7	55.1	74	Horizontal
7311.0	35.7	1.7	0.6	43.1	37.6	32.5	74	Н
9748.0	37.8	2.1	0.9	43.0	42.7	40.5	74	Н

Average Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarizatio n
4874.0	31.1	1.3	0.5	43.5	53.8	43.2	54	Vertical
7311.0	35.7	1.7	0.6	43.1	32.9	27.8	54	V
9748.0	37.8	2.1	0.9	43.0	30.6	28.4	54	V
4874.0	31.1	1.3	0.5	43.5	51.8	41.2	54	Horizontal
7311.0	35.7	1.7	0.6	43.1	34.0	28.9	54	Н
9748.0	37.8	2.1	0.9	43.0	34.4	32.2	54	Н

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Fiter - Preamplifier Factor

Operation Mode:802.11b TX CH High 1M

30MHz~1GHz Spurious Emissions .Quasi-Peak Measurement

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
124	13.4	0.2	24.6	47.28	36.28	46.00	Vertical
124	13.4	0.2	24.6	42.72	31.72	46.00	Horizontal

^{1~25} GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBµV/m)	Limit (dBμV/m)	Antenna polarizatio n
4924.0	31.4	1.4	0.5	43.9	64	53.4	74	Vertical
7386.0	35.8	1.7	0.6	43.1	40.2	35.2	74	V
9848.0	38.0	2.2	0.9	42.8	34	32.3	74	V
4924.0	31.4	1.4	0.5	43.9	59.1	48.5	74	Horizontal
7386.0	35.8	1.7	0.6	43.1	37.4	32.4	74	Н
9848.0	38.0	2.2	0.9	42.8	42.2	40.5	74	Н

Average Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarizatio n
4924.0	31.4	1.4	0.5	43.9	55.8	45.2	54	Vertical
7386.0	35.8	1.7	0.6	43.1	33.6	28.6	54	V
9848.0	38.0	2.2	0.9	42.8	34	32.3	54	V
4924.0	31.4	1.4	0.5	43.9	52.9	42.3	54	Horizontal
7386.0	35.8	1.7	0.6	43.1	34.2	29.2	54	Н
9848.0	38.0	2.2	0.9	42.8	34.9	33.2	54	Н

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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6. Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Fiter - Preamplifier Factor

Operation Mode:802.11g TX CH Low 6M

30MHz~1GHz Spurious Emissions .Quasi-Peak Measurement

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
124	13.4	0.2	24.6	46.44	35.44	46.00	Vertical
124	13.4	0.2	24.6	43.22	32.22	46.00	Horizontal

^{1~25} GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Antenna polarizatio n
4824.0	31.0	1.2	0.5	43.4	63.0	52.3	74	Vertical
7236.0	35.5	1.7	0.6	43.1	37.4	32.1	74	V
9648.0	37.7	2.1	0.9	43.3	41.5	38.9	74	V
4824.0	31.0	1.2	0.5	43.4	64.2	53.5	74	Horizontal
7236.0	35.5	1.7	0.6	43.1	38.7	33.4	74	Н
9648.0	37.7	2.1	0.9	43.3	43.1	40.5	74	Н

Average Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarizatio n
4824.0	31.0	1.2	0.5	43.4	52.8	42.1	54	Vertical
7236.0	35.5	1.7	0.6	43.1	35.0	29.7	54	V
9648.0	37.7	2.1	0.9	43.3	29.4	26.8	54	V
4824.0	31.0	1.2	0.5	43.4	48.9	38.2	54	Horizontal
7236.0	35.5	1.7	0.6	43.1	37.2	31.9	54	Н
9648.0	37.7	2.1	0.9	43.3	38.0	35.4	54	Н

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Fiter - Preamplifier Factor

Operation Mode:802.11g TX CH Mid 6M

30MHz~1GHz Spurious Emissions .Quasi-Peak Measurement

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
124	13.4	0.2	24.6	47.23	36.23	46.00	Vertical
124	13.4	0.2	24.6	42.68	31.68	46.00	Horizontal

^{1~25} GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarizatio n
4874.0	31.1	1.3	0.5	43.5	61.8	51.2	74	Vertical
7311.0	35.7	1.7	0.6	43.1	36.9	31.8	74	V
9748.0	37.8	2.1	0.9	43.0	40.0	37.8	74	V
4874.0	31.1	1.3	0.5	43.5	60.4	49.8	74	Horizontal
7311.0	35.7	1.7	0.6	43.1	37.3	32.2	74	Н
9748.0	37.8	2.1	0.9	43.0	41.0	38.8	74	Н

Average Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBµV/m)	Limit (dBμV/m)	Antenna polarizatio n
4874.0	31.1	1.3	0.5	43.5	51.9	41.3	54	Vertical
7311.0	35.7	1.7	0.6	43.1	33.9	28.8	54	V
9748.0	37.8	2.1	0.9	43.0	31.6	29.4	54	V
4874.0	31.1	1.3	0.5	43.5	50.4	39.8	54	Horizontal
7311.0	35.7	1.7	0.6	43.1	32.7	27.6	54	Н
9748.0	37.8	2.1	0.9	43.0	34.1	31.9	54	Н

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Fiter - Preamplifier Factor

Operation Mode:802.11g TX CH High 6M

30MHz~1GHz Spurious Emissions .Quasi-Peak Measurement

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
124	13.4	0.2	24.6	47.43	36.43	46.00	Vertical
124	13.4	0.2	24.6	42.88	31.88	46.00	Horizontal

1~25 GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarizatio n
4924.0	31.4	1.4	0.5	43.9	60.4	49.8	74	Vertical
7386.0	35.8	1.7	0.6	43.1	38.1	33.1	74	V
9848.0	38.0	2.2	0.9	42.8	38.5	36.8	74	V
4924.0	31.4	1.4	0.5	43.9	58.8	48.2	74	Horizontal
7386.0	35.8	1.7	0.6	43.1	37.4	32.4	74	Н
9848.0	38.0	2.2	0.9	42.8	39.2	37.5	74	Н

Average Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBµV/m)	Limit (dBμV/m)	Antenna polarizatio n
4924.0	31.4	1.4	0.5	43.9	49.5	38.9	54	Vertical
7386.0	35.8	1.7	0.6	43.1	33.5	28.5	54	V
9848.0	38.0	2.2	0.9	42.8	34.6	32.9	54	V
4924.0	31.4	1.4	0.5	43.9	48.5	37.9	54	Horizontal
7386.0	35.8	1.7	0.6	43.1	34.2	29.2	54	Н
9848.0	38.0	2.2	0.9	42.8	34.9	33.2	54	Н

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Fiter - Preamplifier Factor

Operation Mode:802.11n_20M TX CH Low 6.5M

30MHz~1GHz Spurious Emissions .Quasi-Peak Measurement

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
124	13.4	0.2	24.6	46.55	35.55	46.00	Vertical
124	13.4	0.2	24.6	43.01	32.01	46.00	Horizontal

^{1~25} GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarizatio n
4824.0	31.0	1.2	0.5	43.4	65.0	54.3	74	Vertical
7236.0	35.5	1.7	0.6	43.1	38.8	33.5	74	V
9648.0	37.7	2.1	0.9	43.3	41.1	38.5	74	V
4824.0	31.0	1.2	0.5	43.4	64.2	53.5	74	Horizontal
7236.0	35.5	1.7	0.6	43.1	37.9	32.6	74	Н
9648.0	37.7	2.1	0.9	43.3	42.2	39.6	74	Н

Average Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBµV/m)	Limit (dBμV/m)	Antenna polarizatio n
4824.0	31.0	1.2	0.5	43.4	55.5	44.8	54	Vertical
7236.0	35.5	1.7	0.6	43.1	36.8	31.5	54	V
9648.0	37.7	2.1	0.9	43.3	37.0	34.4	54	V
4824.0	31.0	1.2	0.5	43.4	53.5	42.8	54	Horizontal
7236.0	35.5	1.7	0.6	43.1	37.5	32.2	54	Н
9648.0	37.7	2.1	0.9	43.3	36.2	33.6	54	Н

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Fiter - Preamplifier Factor

Operation Mode:802.11n_20M TX CH Mid 6.5M

30MHz~1GHz Spurious Emissions .Quasi-Peak Measurement

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
124	13.4	0.2	24.6	47.28	36.28	46.00	Vertical
124	13.4	0.2	24.6	42.72	31.72	46.00	Horizontal

^{1~25} GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarizatio n
4874.0	31.1	1.3	0.5	43.5	65.8	55.2	74	Vertical
7311.0	35.7	1.7	0.6	43.1	38.5	33.4	74	V
9748.0	37.8	2.1	0.9	43.0	40.9	38.7	74	V
4874.0	31.1	1.3	0.5	43.5	63.8	53.2	74	Horizontal
7311.0	35.7	1.7	0.6	43.1	37.3	32.2	74	Н
9748.0	37.8	2.1	0.9	43.0	41.8	39.6	74	Н

Average Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBµV/m)	Limit (dBμV/m)	Antenna polarizatio n
4874.0	31.1	1.3	0.5	43.5	53.4	42.8	54	Vertical
7311.0	35.7	1.7	0.6	43.1	34.6	29.5	54	V
9748.0	37.8	2.1	0.9	43.0	33.4	31.2	54	V
4874.0	31.1	1.3	0.5	43.5	50.9	40.3	54	Horizontal
7311.0	35.7	1.7	0.6	43.1	34.0	28.9	54	Н
9748.0	37.8	2.1	0.9	43.0	34.4	32.2	54	Н

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Fiter - Preamplifier Factor

Operation Mode:802.11n_20MX CH High 6.5M

30MHz~1GHz Spurious Emissions .Quasi-Peak Measurement

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
124	13.4	0.2	24.6	47.11	36.11	46.00	Vertical
124	13.4	0.2	24.6	42.12	31.12	46.00	Horizontal

^{1~25} GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarizatio n
4924.0	31.4	1.4	0.5	43.9	64.2	53.6	74	Vertical
7386.0	35.8	1.7	0.6	43.1	37.1	32.1	74	V
9848.0	38.0	2.2	0.9	42.8	37.3	35.6	74	V
4924.0	31.4	1.4	0.5	43.9	61.8	51.2	74	Horizontal
7386.0	35.8	1.7	0.6	43.1	36.6	31.6	74	Н
9848.0	38.0	2.2	0.9	42.8	38.4	36.7	74	Н

Average Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Antenna polarizatio n
4924.0	31.4	1.4	0.5	43.9	55.4	44.8	54	Vertical
7386.0	35.8	1.7	0.6	43.1	32.5	27.5	54	V
9848.0	38.0	2.2	0.9	42.8	31.5	29.8	54	V
4924.0	31.4	1.4	0.5	43.9	53.1	42.5	54	Horizontal
7386.0	35.8	1.7	0.6	43.1	31.5	26.5	54	Н
9848.0	38.0	2.2	0.9	42.8	35.9	34.2	54	Н

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Fiter - Preamplifier Factor

Operation Mode:802.11n_40M TX CH Low13.5M

30MHz~1GHz Spurious Emissions .Quasi-Peak Measurement

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
124	13.4	0.2	24.6	47.24	36.24	46.00	Vertical
124	13.4	0.2	24.6	42.55	31.55	46.00	Horizontal

^{1~25} GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarizatio n
4844.0	31.5	1.3	0.5	43.5	65.6	55.4	74	Vertical
7266.0	35.5	1.6	0.6	43.1	40.6	35.2	74	V
9688.0	37.8	2.1	0.9	43.5	42.2	39.5	74	V
4844.0	31.5	1.3	0.5	43.5	63.6	53.4	74	Horizontal
7266.0	35.5	1.6	0.6	43.1	39.6	34.2	74	Н
9688.0	37.8	2.1	0.9	43.5	41.3	38.6	74	Н

Average Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Antenna polarizatio n
4844.0	31.5	1.3	0.5	43.5	55.4	45.2	54	Vertical
7266.0	35.5	1.6	0.6	43.1	35.0	29.6	54	V
9688.0	37.8	2.1	0.9	43.5	34.0	31.3	54	V
4844.0	31.5	1.3	0.5	43.5	53.7	43.5	54	Horizontal
7266.0	35.5	1.6	0.6	43.1	34.9	29.5	54	Н
9688.0	37.8	2.1	0.9	43.5	32.9	30.2	54	Н

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Fiter - Preamplifier Factor

Operation Mode:802.11n_40M TX CH Mid 13.5M

30MHz~1GHz Spurious Emissions .Quasi-Peak Measurement

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarization
124	13.4	0.2	24.6	47.22	36.22	46.00	Vertical
124	13.4	0.2	24.6	42.44	31.44	46.00	Horizontal

^{1~25} GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBμV/m)	Limit (dBμV/m)	Antenna polarizatio n
4874.0	31.1	1.3	0.5	43.5	66.9	56.3	74	Vertical
7311.0	35.7	1.7	0.6	43.1	39.3	34.2	74	V
9748.0	37.8	2.1	0.9	43.0	41.8	39.6	74	V
4874.0	31.1	1.3	0.5	43.5	64.7	54.1	74	Horizontal
7311.0	35.7	1.7	0.6	43.1	38.2	33.1	74	Н
9748.0	37.8	2.1	0.9	43.0	40	37.8	74	Н

Average Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBµV/m)	Limit (dBμV/m)	Antenna polarizatio n
4874.0	31.1	1.3	0.5	43.5	54.8	44.2	54	Vertical
7311.0	35.7	1.7	0.6	43.1	33.6	28.5	54	V
9748.0	37.8	2.1	0.9	43.0	34.4	32.2	54	V
4874.0	31.1	1.3	0.5	43.5	51.9	41.3	54	Horizontal
7311.0	35.7	1.7	0.6	43.1	34.4	29.3	54	Н
9748.0	37.8	2.1	0.9	43.0	35.4	33.2	54	Н

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Fiter - Preamplifier Factor

Operation Mode:802.11n _40MTX CH High 13.5M

30MHz~1GHz Spurious Emissions .Quasi-Peak Measurement

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dB _µ V/m)	Limit (dBμV/m)	Antenna polarization
124	13.4	0.2	24.6	46.27	35.27	46.00	Vertical
124	13.4	0.2	24.6	43.42	32.42	46.00	Horizontal

^{1~25} GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dB _µ V)	Emission Level (dBµV/m)	Limit (dBμV/m)	Antenna polarizatio n
4904.0	31.6	1.4	0.5	43.9	65.7	55.3	74	Vertical
7356.0	35.6	1.7	0.6	43.1	39.4	34.2	74	V
9808.0	37.9	2.1	0.9	42.8	41.7	39.8	74	V
4904.0	31.6	1.4	0.5	43.9	64.7	54.3	74	Horizontal
7356.0	35.6	1.7	0.6	43.1	38.8	33.6	74	Н
9808.0	37.9	2.1	0.9	42.8	40.3	38.4	74	Н

Average Measurement:

Frequen cy (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Filter (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Antenna polarizatio n
4904.0	31.6	1.4	0.5	43.9	52.6	42.2	54	Vertical
7356.0	35.6	1.7	0.6	43.1	33.8	28.6	54	V
9808.0	37.9	2.1	0.9	42.8	35.1	33.2	54	V
4904.0	31.6	1.4	0.5	43.9	51.0	40.6	54	Horizontal
7356.0	35.6	1.7	0.6	43.1	35.0	29.8	54	Н
9808.0	37.9	2.1	0.9	42.8	36.4	34.5	54	Н

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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Fina Final Test Level = Receiver Reading + Antenna Factor + Cable Factor + Fiter - Preamplifier Factor

4.3.8 Peak Power Spectral Density

Test Requirement: FCC Part15 247(e)

Test date: June 1,2010 to July 15,2010

Standard Applicable: According to section 15.247(e), For digitally modulated

systems,the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dB in any 3KHz band during any time in terval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph(b) of this section. The same method of determining the conducted output power shall be used to determine the powr spectral density.

Measurement Procedure: The EUT was tested according to DTS test procedure of KDB

558074 for compliance to FCC 47CFR 15.247 requiremnts. Set RBW=3KHz,Set VBW=10KHz,Sweep time=100s,Set

detector=Peak detector.

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Measurement Result:

Chain 1:

Test Results(802.11b)1M

163(1636)(602:116)(10)						
СН	Frequency (MHz)	RF Power	Cable	RF Power		
		Density	loss	Density		
		Reading (dBm)	(Db)	Level(dBm)		
LOW	2412	-5.06	0.00	-5. 06		
MID	2437	-4. 27	0.00	-4. 27		
HIGH	2462	-5.82	0.00	-5.82		

Test Results(802.11a)6M

165t Hesalts (662: 119) 6W						
СН	Frequency (MHz)	RF Power	Cable	RF Power		
		Density	loss	Density		
		Reading (MHz)	(Db)	Level(dBm)		
LOW	2412	-9.07	0.00	-9. 07		
MID	2437	-10.87	0.00	-10.87		
HIGH	2462	-10. 75	0.00	-10. 75		

Test Results(802.11n 20M)6.5M

1 00t 1 100th (002: 1 111_2011) 0:011						
СН	Frequency (MHz)	RF Power	Cable	RF Power		
		Density	loss	Density		
		Reading (MHz)	(Db)	Level(dBm)		
LOW	2412	-9. 34	0.00	-9. 34		
MID	2437	-10.83	0.00	-10.83		
HIGH	2462	-10. 99	0.00	-10.99		

Test Results(802.11n 40M)13.5M

100111000110(002:1111_1011)10:011						
СН	Frequency (MHz)	RF Power	Cable	RF Power		
		Density	loss	Density		
		Reading (MHz)	(Db)	Level(dBm)		
LOW	2422	-12. 56	0.00	-12. 56		
MID	2437	-11.86	0.00	-11.86		
HIGH	2452	-12. 36	0.00	-12. 36		

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Chain 2:

Test Results(802.11b)1M

163t 163dt5(002.11b) 1W						
	Frequency (MHz)	RF Power	Cable	RF Power		
СН		Density	loss	Density		
		Reading (dBm)	(Db)	Level(dBm)		
LOW	2412	-4.46	0.00	-4. 46		
MID	2437	-6. 39	0.00	-6. 39		
HIGH	2462	-5. 24	0.00	-5. 24		

Test Results(802.11g)6M

	3/			
СН	Frequency (MHz)	RF Power	Cable	RF Power
		Density	loss	Density
		Reading (MHz)	(Db)	Level(dBm)
LOW	2412	-10. 19	0.00	-10. 19
MID	2437	-10. 58	0.00	-10. 58
HIGH	2462	-10.01	0.00	-10.01

Test Results(802.11n_20M)6.5M

СН	Emaguanar	RF Power	Cable	RF Power
	Frequency (MHz)	Density	loss	Density
		Reading (MHz)	(Db)	Level(dBm)
LOW	2412	-10.69	0.00	-10.69
MID	2437	-9. 33	0.00	-9. 33
HIGH	2462	-10. 59	0.00	-10. 59

Test Results(802.11n_40M)13.5M						
СН	Frequency (MHz)	RF Power	Cable	RF Power		
		Density	loss	Density		
		Reading (MHz)	(Db)	Level(dBm)		
LOW	2422	-12. 05	0.00	-12. 05		
MID	2437	-11.89	0.00	-11.89		
HIGH	2452	-12. 38	0.00	-12. 38		

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		Frequency	Chain 1	Chain2	Total	Limit	
Mode	I CH I - f	(MHz)	Power (dBm)	Power (dBm)	Power (dBm)	(dBm)	Result
000 115	Low	2412	-5.06	-4. 46	N/A	8	PASS
802.11b (1Mbps)	Mid	2437	-4. 27	-6. 39	N/A	8	PASS
(IMDPS)	High	2462	-5.82	-5. 24	N/A	8	PASS
909 11 _m	Low	2412	-9. 07	-10. 19	N/A	8	PASS
802.11g (6Mbps)	Mid	2437	-10.87	-10.58	N/A	8	PASS
(OMODS)	High	2462	-10.75	-10.01	N/A	8	PASS
000 11 UT00	Low	2412	-9. 34	-10.69	-6.95	8	PASS
802.11n_HT20 (6.5Mbps)	Mid	2437	-10.83	-9.33	-7.01	8	PASS
(o. omops)	High	2462	-10.99	-10.59	-7. 78	8	PASS
000 11 11740	Low	2422	-12 . 56	-12.05	-9. 28	8	PASS
802.11n_HT40 (13.5Mbps)	Mid	2437	-11.86	-11.89	-8.86	8	PASS
(13. DMDPS)	High	2452	-12. 36	-12.38	-9.36	8	PASS

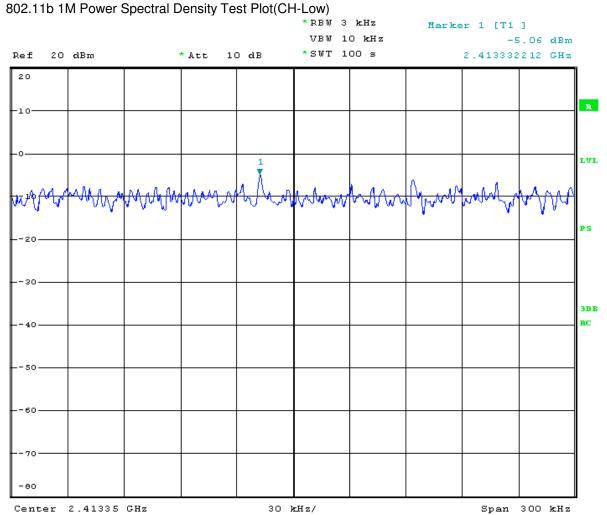
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Chain 1:



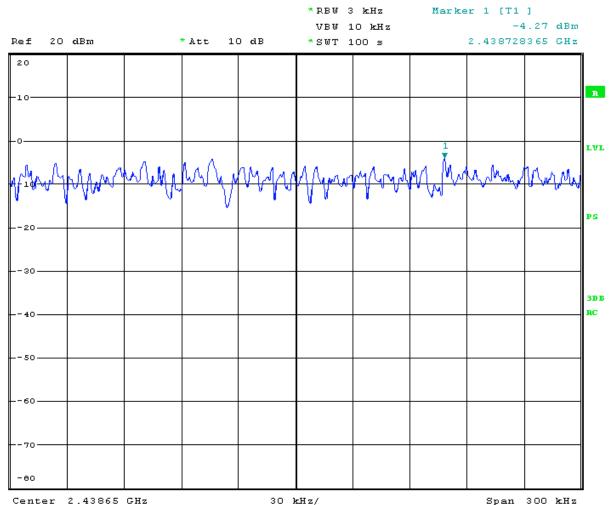
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Power Spectral Density Test Plot(CH-Mid)



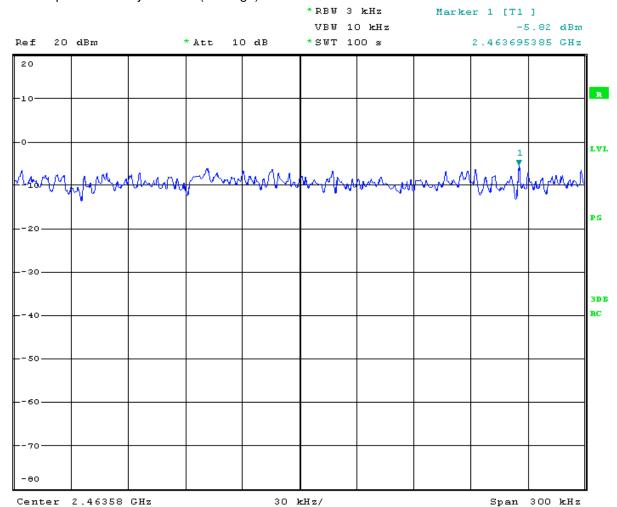
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Power Spectral Density Test Plot(CH-High)



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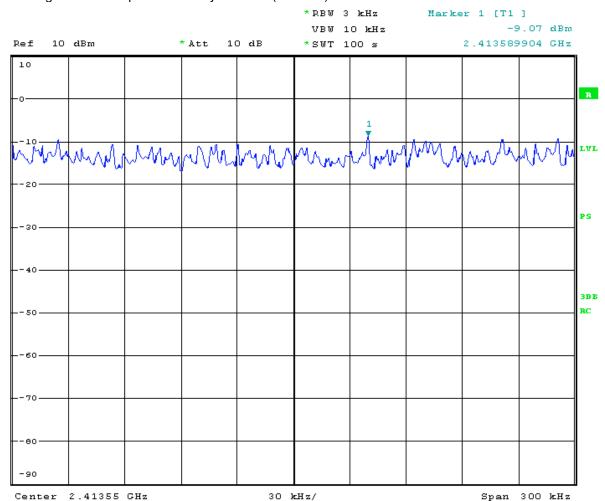
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802.11g 6M Power Spectral Density Test Plot(CH-Low)



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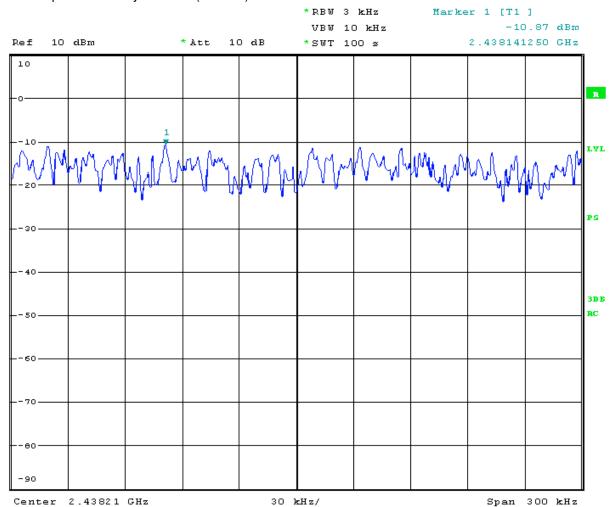
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Power Spectral Density Test Plot(CH-Mid)



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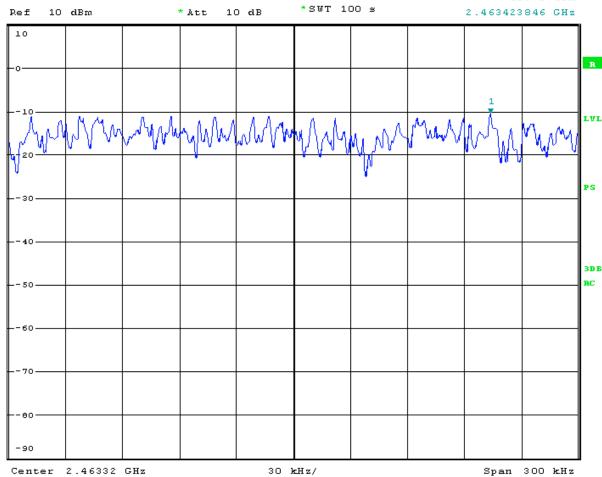
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D-5 10 ab-- + - - 10 a

Power Spectral Density Test Plot(CH-High)





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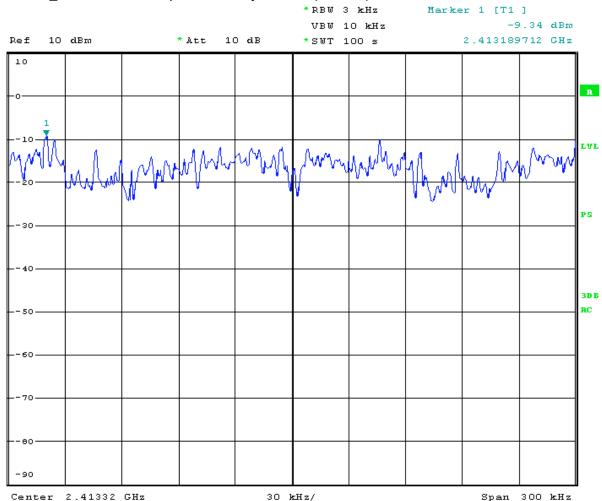
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802.11n 20M 6.5M Power Spectral Density Test Plot(CH-Low)



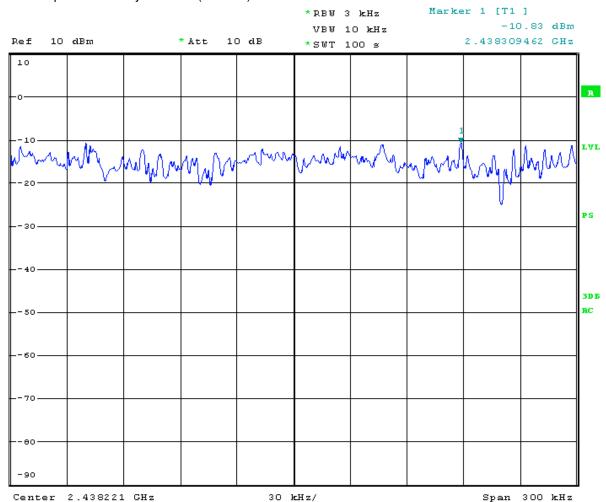
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Power Spectral Density Test Plot(CH-Mid)



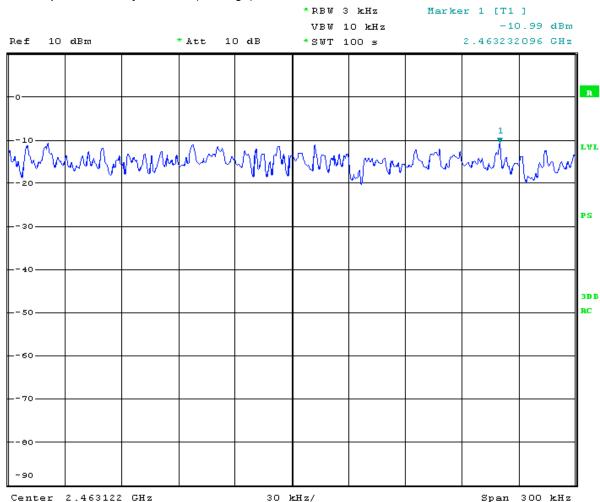
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Power Spectral Density Test Plot(CH-High)



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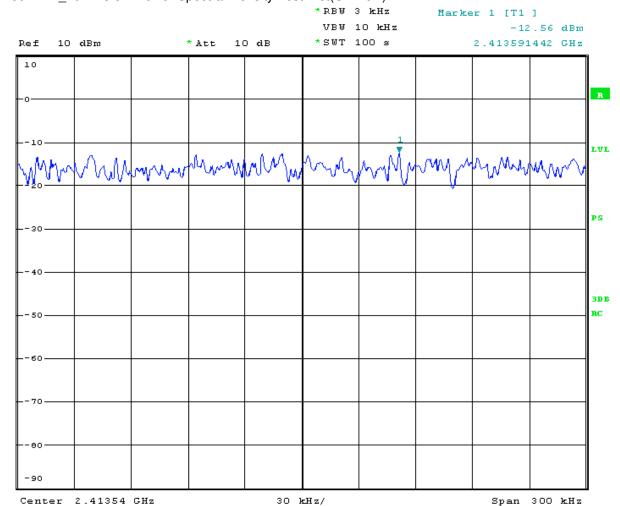
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802.11n_40M 13.5M Power Spectral Density Test Plot(CH-Low)



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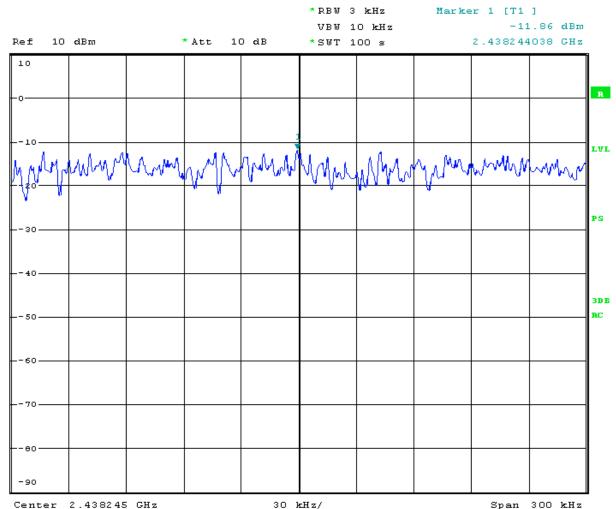
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Power Spectral Density Test Plot(CH-Mid)



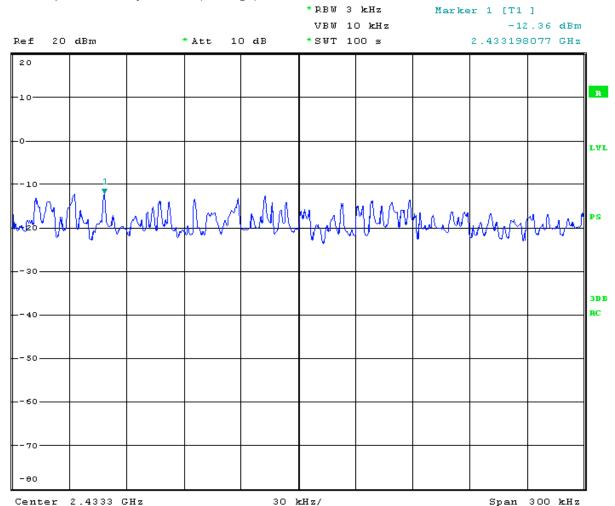
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Power Spectral Density Test Plot(CH-High)



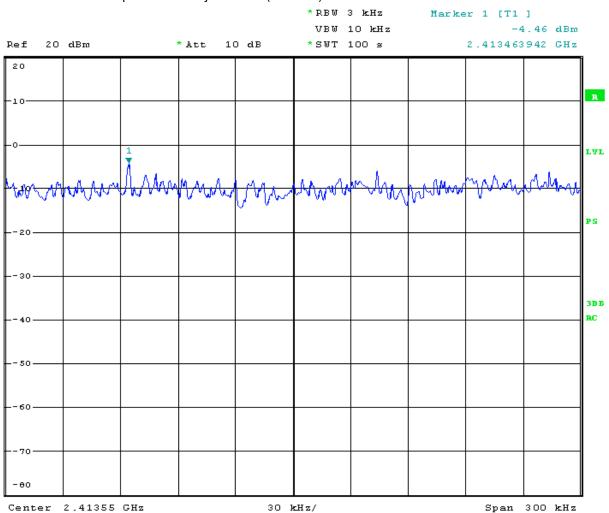
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Chain 2: 802.11b 1M Power Spectral Density Test Plot(CH-Low)



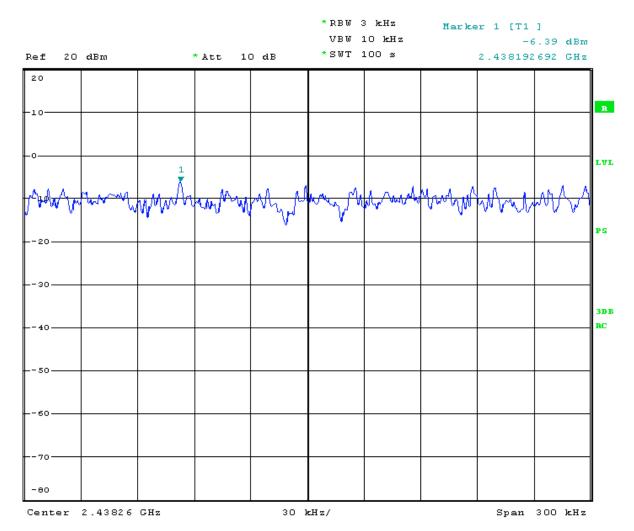
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Power Spectral Density Test Plot(CH-Mid)



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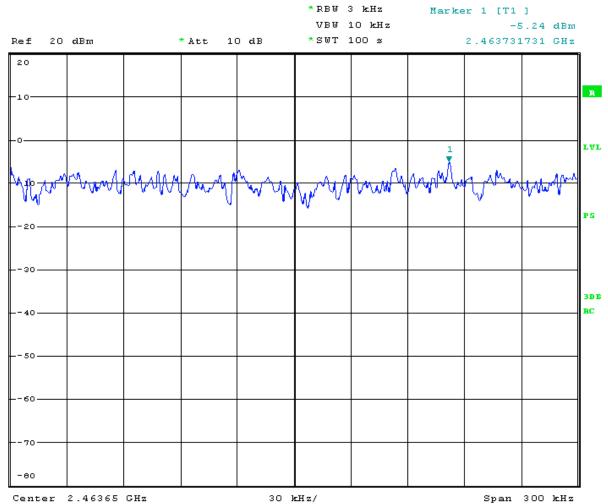
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Power Spectral Density Test Plot(CH-High)



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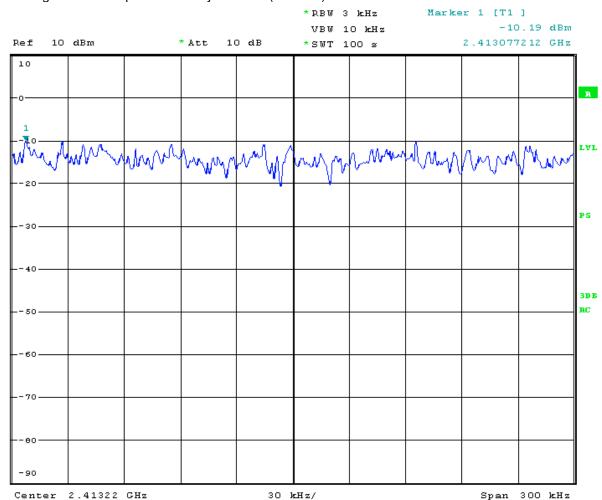
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802.11g 6M Power Spectral Density Test Plot(CH-Low)



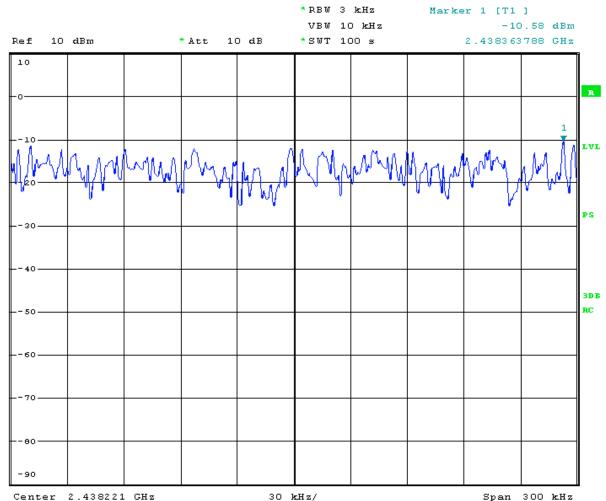
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Power Spectral Density Test Plot(CH-Mid)



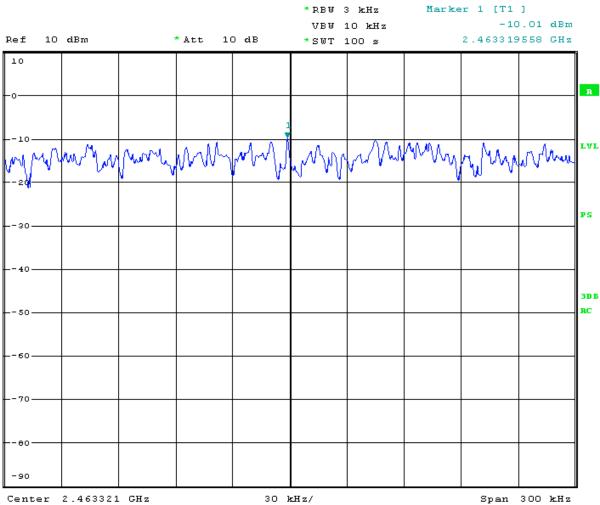
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Power Spectral Density Test Plot(CH-High)



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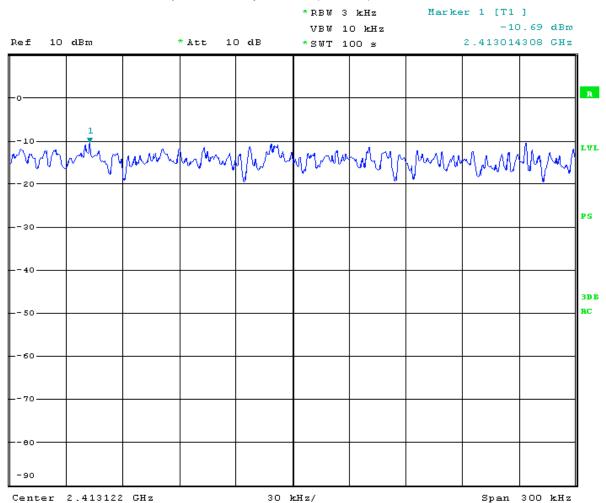
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802.11n_20M 6.5M Power Spectral Density Test Plot(CH-Low)



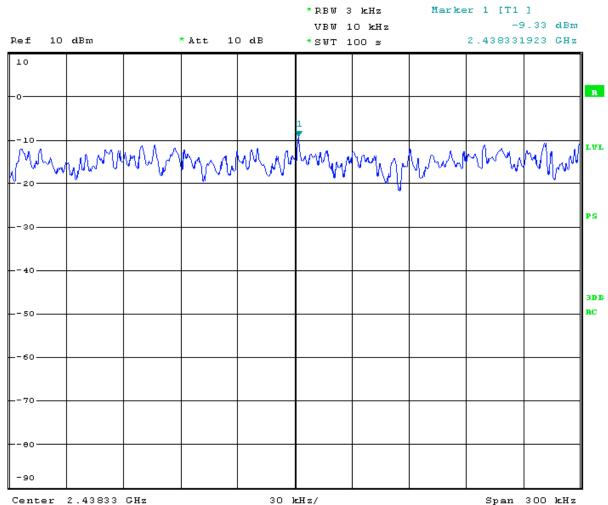
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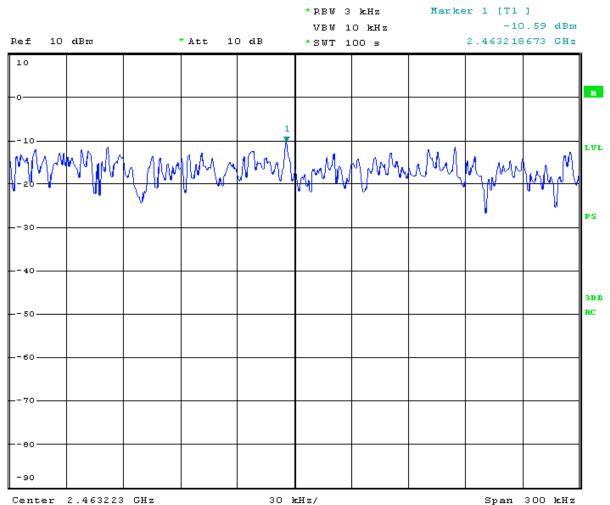
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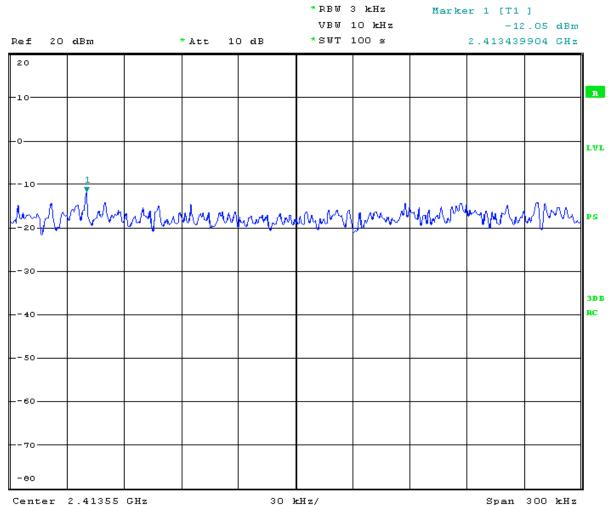
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802.11n_40M 13.5M Power Spectral Density Test Plot(CH-Low)



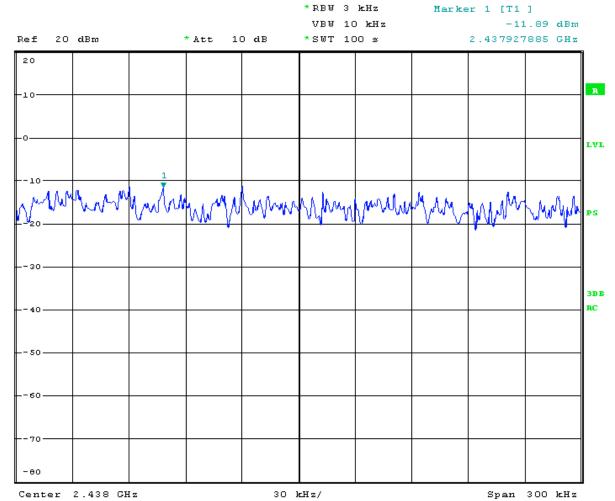
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