



FCC RF Test Report

APPLICANT : Motorola Mobility, Inc.
EQUIPMENT : TD-SCDMA/GSM Dual-mode digit
mobile phone with BT/ Wi-Fi
BRAND NAME : Motorola
MODEL NAME : MT788
MARKETING NAME : MOTOLUXE XT MT788
TYPE NAME : M0D7B
GPPD NUMBER : 3451
FCC ID : IHDT56NY2
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Aug. 08, 2012 and completely tested on Oct. 17, 2012. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	A8.2(a)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.2	15.247(b)	A8.4	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	A8.2(b)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	A8.5	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
			Conducted Spurious Emission		Pass	-
3.5	15.247(d)	A8.5	Radiated Band Edges	15.209(a) & 15.247(d)	Pass	-
			Radiated Spurious Emission		Pass	Under limit 4.40 dB at 257.420 MHz
3.6	15.207	Gen 7.2.4	AC Conducted Emission	15.207(a)	Pass	Under limit 9.41 dB at 2.010 MHz
3.7	15.203 & 15.247(b)	A8.4	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Motorola Mobility, Inc.

No. 1, Wang Jing East Road, Chao Yang District, 100102 Beijing, P. R. China

1.2 Manufacturer

Huizhou BYD Electronic Co., Ltd.

Xiangshui River, Economic Development Zone, Daya Bay, Huizhou, Guangdong

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	TD-SCDMA/GSM Dual-mode digit mobile phone with BT/ Wi-Fi
Brand Name	Motorola
Model Name	MT788
Marketing Name	MOTOLUXE XT MT788
Type Name	M0D7B
FCC ID	IHDT56NY2
EUT supports Radios application	GSM/EGPRS WLAN 11bgn / Bluetooth
HW Version	P1.5
SW Version	IRPMTD_6_02.33.00DDS
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Product Specification subjective to this standard	
Tx/Rx Frequency Range	2412 MHz ~ 2462 MHz
Number of Channels	11
Carrier Frequency of Each Channel	2412+(n-1)*5 MHz; n=1~11
Maximum Output Power to Antenna	802.11b : 18.95 dBm (0.0785 W) 802.11g : 23.83 dBm (0.2415 W) 802.11n HT20(400GI) : 22.39 dBm (0.1734 W) 802.11n HT20(800GI) : 22.86 dBm (0.1932 W)
Antenna Type	LDS Antenna type with gain 0.50 dBi
Type of Modulation	802.11b : DSSS (BPSK / QPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)



1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958		
Test Site No.	Sporton Site No.		FCC/IC Registration No.
	03CH01-KS	CO01-KS	149928/4086E-1

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v01r02
- FCC TCB Workshop 2012, April
- ANSI C63.4-2003 and ANSI C63.10-2009
- IC RSS-210 Issue 8
- IC RSS-Gen Issue 3

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

1.6 Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-855	KA2DIR855 A2	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A
4.	Notebook	Dell	P08S	QDS-BRCM 1030	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Notebook	Acer	Trave Imate 2413Lci	QDS-BRCM 1016	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
6.	DC Power Supply	GW	GPC-60300	N/A	N/A	Unshielded, 1.8 m



2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 KHz to 30 MHz) and radiated emission (9 KHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		



2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and antenna configurations as following table and the highest power data rates were chosen for full test in the following tables. Final Output Power equals to Measured Output Power adds the duty factor.

2.4GHz 802.11b mode				
Data Rate (MHz)	1M bps	2M bps	5.5M bps	11M bps
Peak Power (dBm)	18.95	18.82	18.92	18.91

2.4GHz 802.11g mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Peak Power (dBm)	23.83	23.78	23.75	23.74	23.69	23.78	23.61	23.65

2.4GHz 802.11n HT20 mode									
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
Peak Power (dBm)	400GI	22.34	22.25	22.12	22.36	22.22	22.39	22.32	21.96
	800GI	21.97	22.06	21.8	22.01	22.13	22.86	22.32	22.17

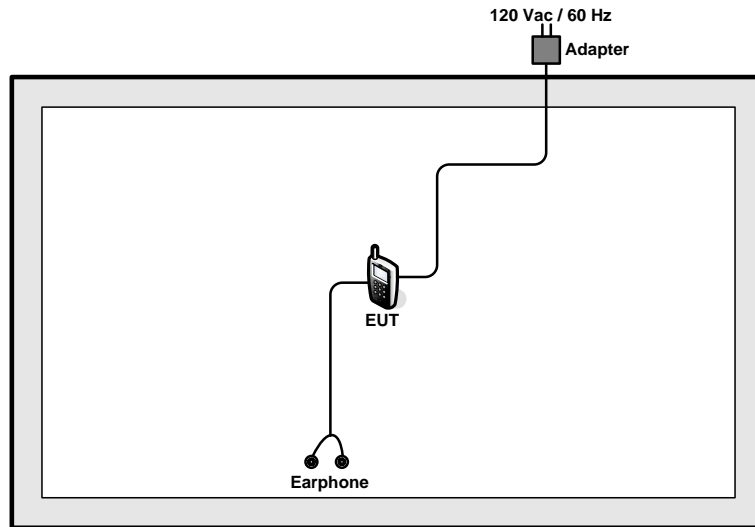
2.3 Test Mode

Final results of test modes, data rates and test channels are shown as following table.

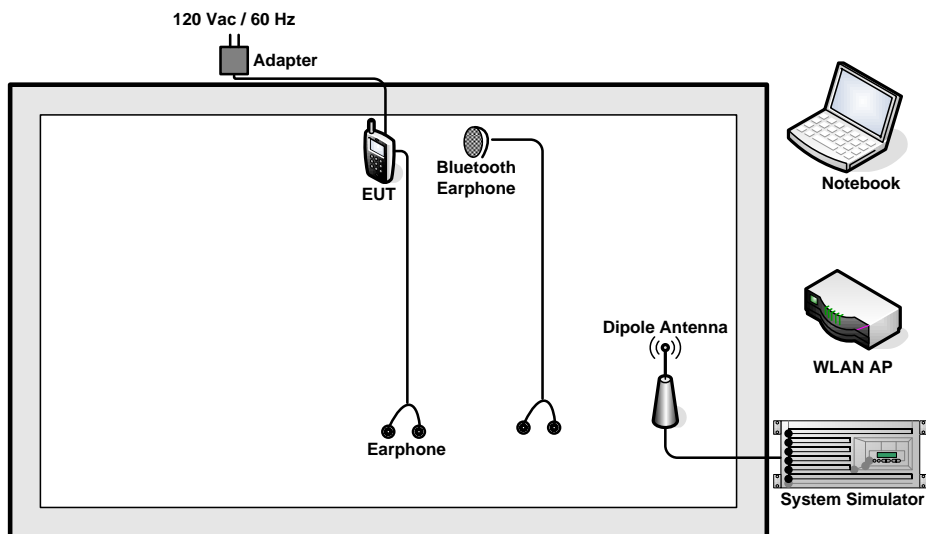
Test Cases				
	Test Items	Mode	Data Rate	Test Channel
Conducted TCs	6dB Power Spectral Density	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	6.5 Mbps	1/6/11
	Output Power	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	6.5 Mbps	1/6/11
	Conducted Band EDGE	802.11b	1 Mbps	1/11
		802.11g	6 Mbps	1/11
		802.11n HT20	6.5 Mbps	1/11
	Conducted Spurious Emission	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	6.5 Mbps	1/6/11
Radiated TCs	Radiated Band EDGE	802.11b	1 Mbps	1/11
		802.11g	6 Mbps	1/11
		802.11n HT20	6.5 Mbps	1/11
	Radiated Spurious Emission	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	6.5 Mbps	1/6/11
AC Conducted Emission	Mode 1 : GSM1900 Idle + Bluetooth Link + WLAN Link + Earphone + Camera + USB Cable (Charging from Adapter) Mode 2 : GSM1900 Idle + Bluetooth Link + WLAN Link + Earphone + MPEG4 + USB Cable (Charging from Adapter)			
Remark: The worst case of conducted emission is mode 1; only the test data of it was reported.				

2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.5 RF Utility

For WLAN function, programmed RF utility, "ADB" installed in the notebook make the EUT provides functions like channel selection and power level for continuous transmitting and receiving signals.

3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 KHz.

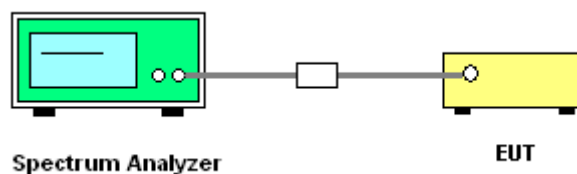
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance V01r02.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1-5% of the emission bandwidth (EBW). Set the Video bandwidth (VBW) $\geq 3 * RBW$. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 KHz.

3.1.4 Test Setup



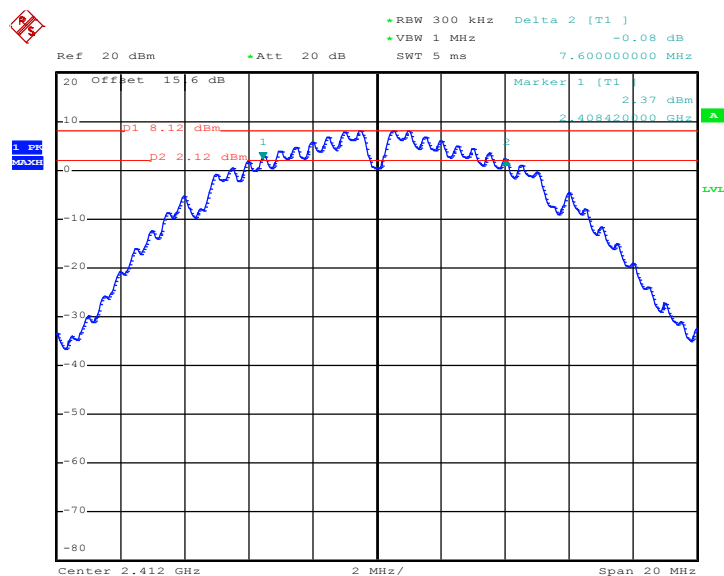


3.1.5 Test Result of 6dB Bandwidth

Test Mode :	802.11b	Temperature :	21~22°C
Test Engineer :	Lizy Li	Relative Humidity :	41~42%

Channel	Frequency (MHz)	802.11b 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	7.60	0.5	Pass
06	2437	7.60	0.5	Pass
11	2462	7.16	0.5	Pass

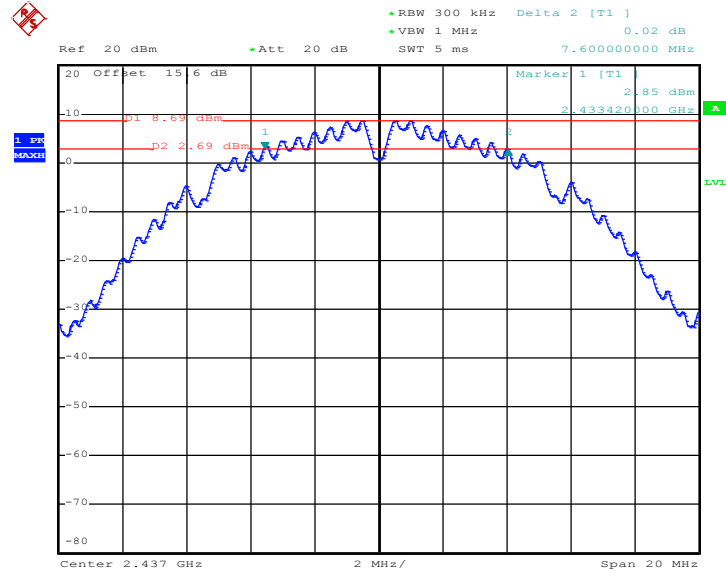
6 dB Bandwidth Plot on 802.11b Channel 01



Date: 15.SEP.2012 04:14:48

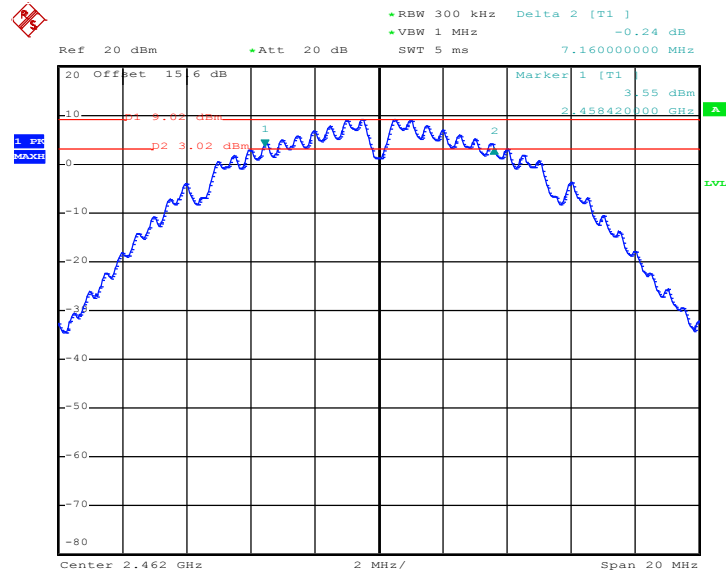


6 dB Bandwidth Plot on 802.11b Channel 06



Date: 15.SEP.2012 04:19:51

6 dB Bandwidth Plot on 802.11b Channel 11



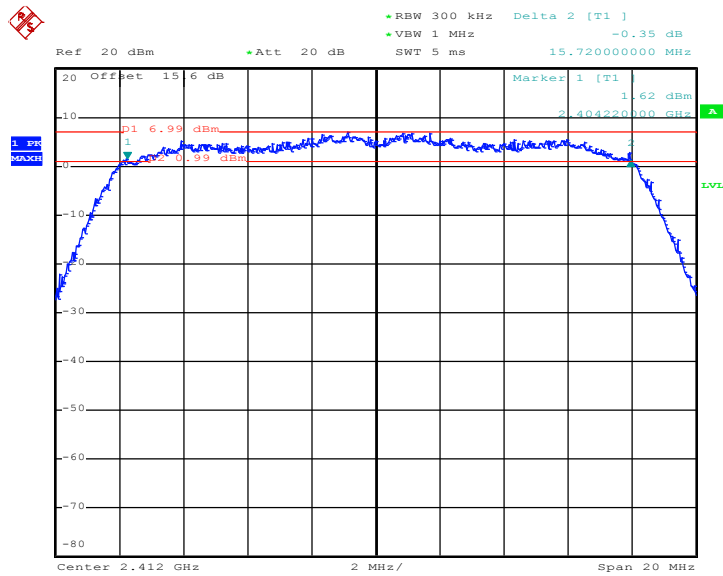
Date: 15.SEP.2012 04:23:55



Test Mode :	802.11g	Temperature :	21~22°C
Test Engineer :	Lizy Li	Relative Humidity :	41~42%

Channel	Frequency (MHz)	802.11g 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	15.72	0.5	Pass
06	2437	15.92	0.5	Pass
11	2462	15.84	0.5	Pass

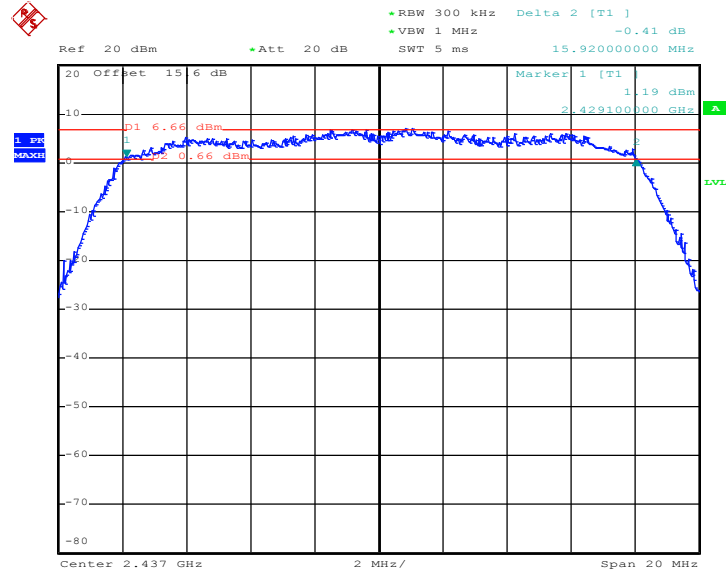
6 dB Bandwidth Plot on 802.11g Channel 01



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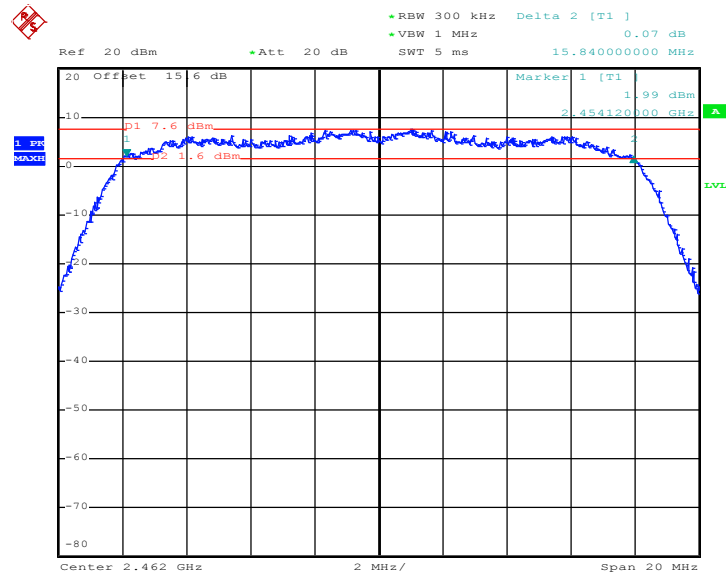


6 dB Bandwidth Plot on 802.11g Channel 06



Date: 15.SEP.2012 04:33:25

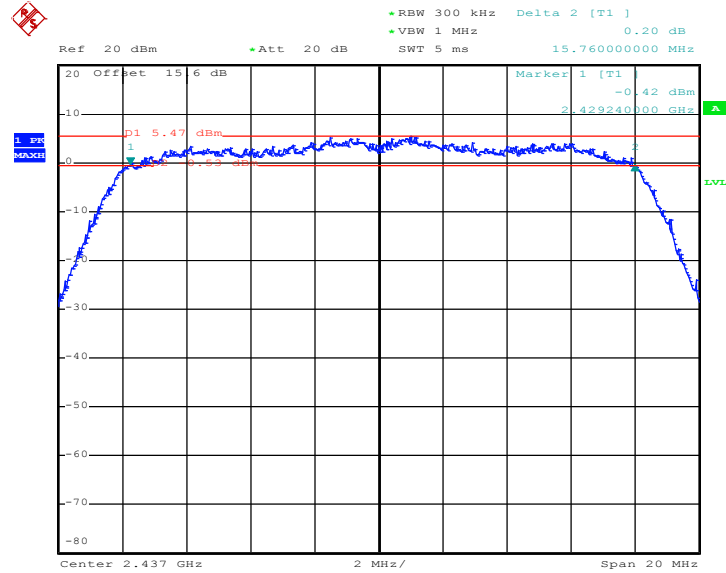
6 dB Bandwidth Plot on 802.11g Channel 11



Date: 15.SEP.2012 04:37:11

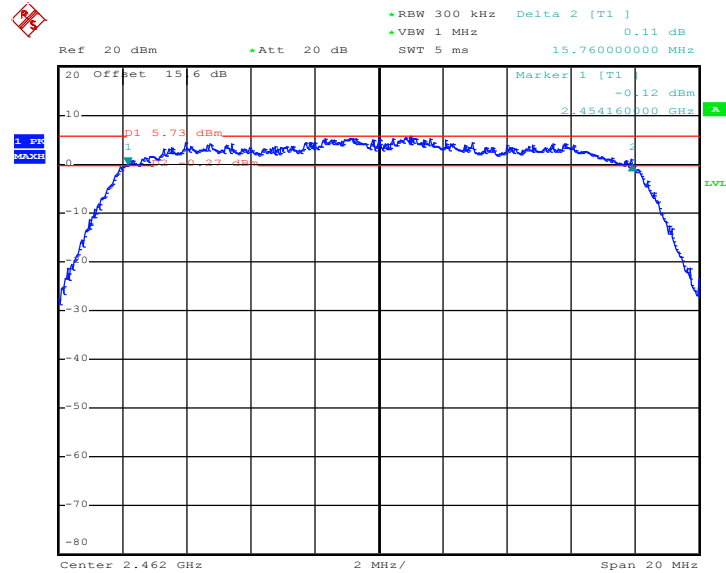


6 dB Bandwidth Plot on 802.11n HT20 Channel 06



Date: 15.SEP.2012 04:46:47

6 dB Bandwidth Plot on 802.11n HT20 Channel 11



Date: 15.SEP.2012 04:49:22

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

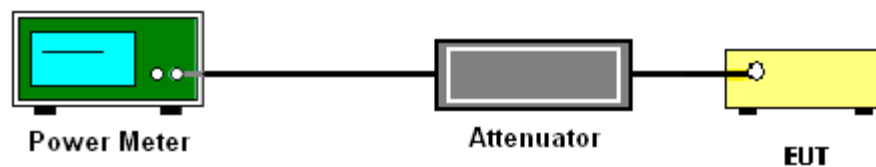
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v01r02.
2. The RF output of EUT was connected to the power meter by a low loss cable.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup





3.2.5 Test Result of Peak Output Power

Test Mode :	802.11b	Temperature :	21~22°C
Test Engineer :	Lizy Li	Relative Humidity :	41~42%

Channel	Frequency (MHz)	802.11b Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	17.95	30	Pass
06	2437	18.65	30	Pass
11	2462	18.95	30	Pass

Test Mode :	802.11g	Temperature :	21~22°C
Test Engineer :	Lizy Li	Relative Humidity :	41~42%

Channel	Frequency (MHz)	802.11g Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	23.61	30	Pass
06	2437	23.54	30	Pass
11	2462	23.83	30	Pass

Test Mode :	802.11n HT20	Temperature :	21~22°C
Test Engineer :	Lizy Li	Relative Humidity :	41~42%

Channel	Frequency (MHz)	2.4GHz 802.11n HT20 Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	21.37	30	Pass
06	2437	21.11	30	Pass
11	2462	22.86	30	Pass



3.2.6 Test Result of Average output Power (Reporting Only)

Test Mode :	802.11b	Temperature :	21~22
Test Engineer :	Lizy Li	Relative Humidity :	41~42
Duty Cycle:	99.04%	Duty Factor:	0.04dB

Channel	Frequency (MHz)	802.11b Average Output Power (dBm)
01	2412	15.08
06	2437	15.60
11	2462	16.02

Test Mode :	802.11g	Temperature :	21~22
Test Engineer :	Lizy Li	Relative Humidity :	41~42
Duty Cycle:	94.50%	Duty Factor:	0.25dB

Channel	Frequency (MHz)	802.11g Average Output Power (dBm)
01	2412	13.39
06	2437	13.76
11	2462	14.30

Test Mode :	802.11n HT20	Temperature :	21~22
Test Engineer :	Lizy Li	Relative Humidity :	41~42
Duty Cycle:	69.50%	Duty Factor:	1.58dB

Channel	Frequency (MHz)	802.11n HT20 Average Output Power (dBm)
01	2412	11.30
06	2437	11.73
11	2462	12.53

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3KHz band at any time interval of continuous transmission.

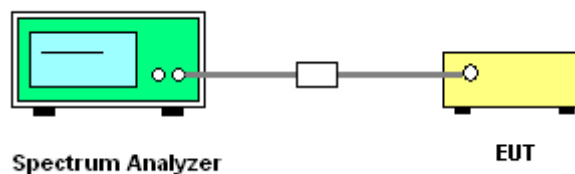
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure 9.1 Option 1 of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v01r02
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Record the measurement data derived from spectrum analyzer.

3.3.4 Test Setup



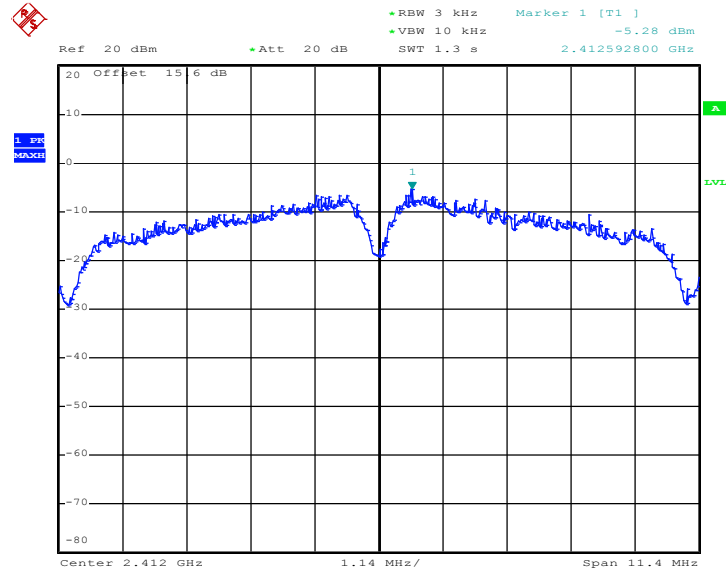
3.3.5 Test Result of Power Spectral Density

Test Mode :	802.11b	Temperature :	21~22°C
Test Engineer :	Lizy Li	Relative Humidity :	41~42%

Channel	Frequency (MHz)	802.11b Power Density		Max. Limits (dBm)	Pass/Fail
		PSD/3KHz (dBm)			
01	2412	-5.28		8	Pass
06	2437	-5.46		8	Pass
11	2462	-4.70		8	Pass

Note: Measured power density (dBm) has offset with cable loss.

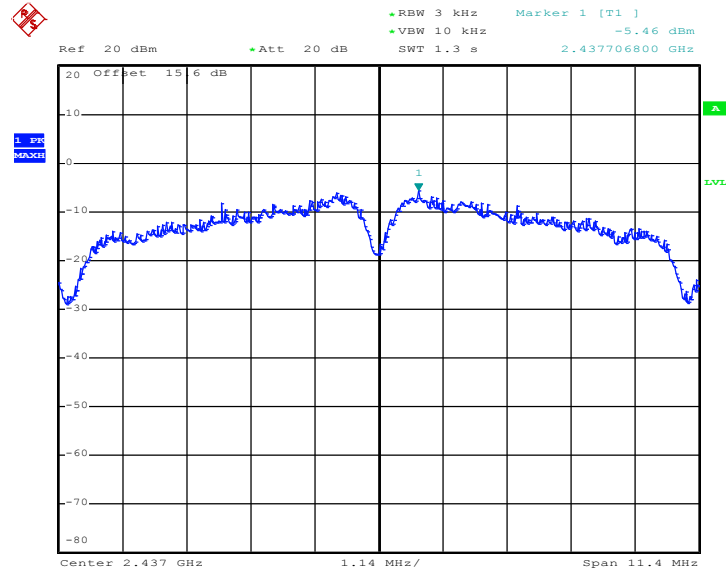
PSD Plot on 802.11b Channel 01



Date: 11.OCT.2012 19:01:46

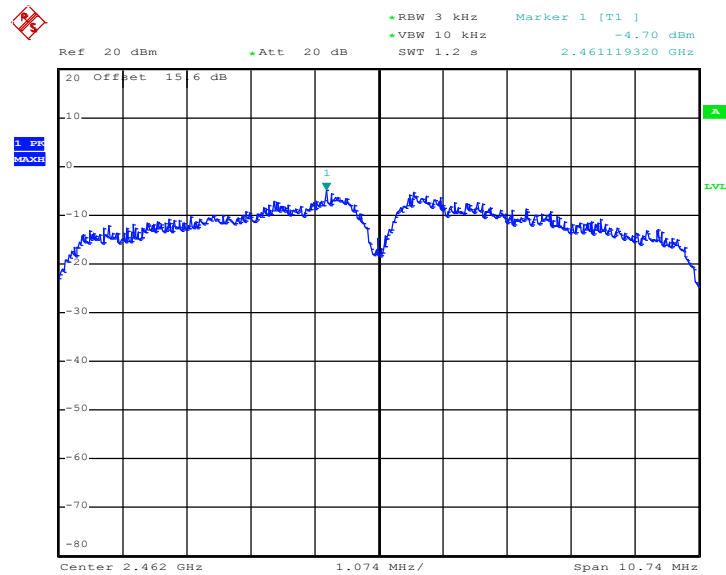


PSD Plot on 802.11b Channel 06



Date: 11.OCT.2012 19:03:36

PSD Plot on 802.11b Channel 11



Date: 11.OCT.2012 18:37:58

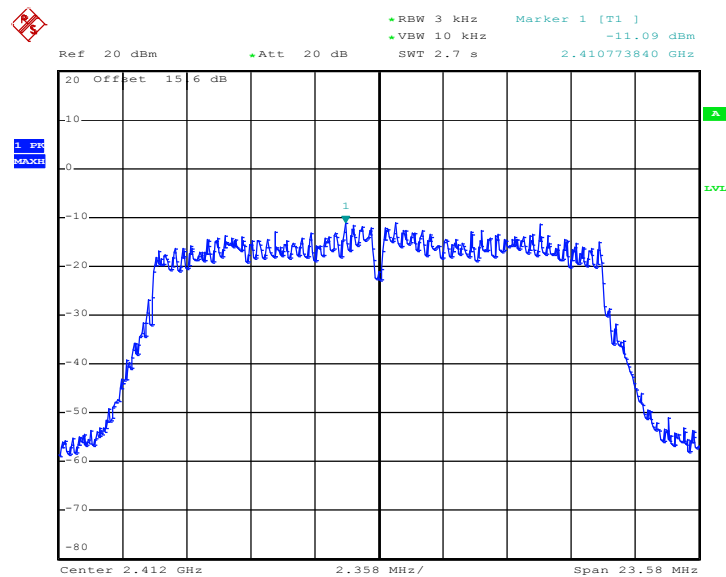


Test Mode :	802.11g	Temperature :	21~22°C
Test Engineer :	Lizy Li	Relative Humidity :	41~42%

Channel	Frequency (MHz)	802.11g Power Density	Max. Limits (dBm)	Pass/Fail
		PSD/3KHz (dBm)		
01	2412	-11.09	8	Pass
06	2437	-10.19	8	Pass
11	2462	-9.29	8	Pass

Note: Measured power density (dBm) has offset with cable loss.

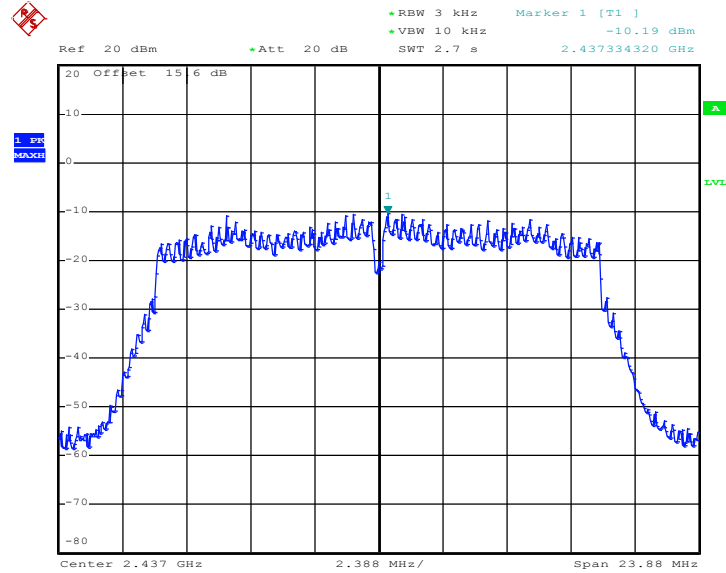
PSD Plot on 802.11g Channel 01



Date: 11.OCT.2012 18:40:41

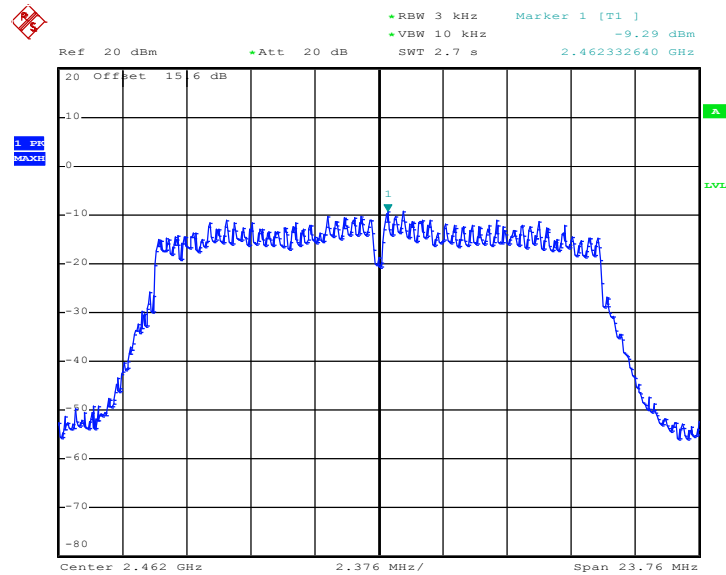


PSD Plot on 802.11g Channel 06



Date: 11.OCT.2012 18:42:27

PSD Plot on 802.11g Channel 11



Date: 11.OCT.2012 18:46:16

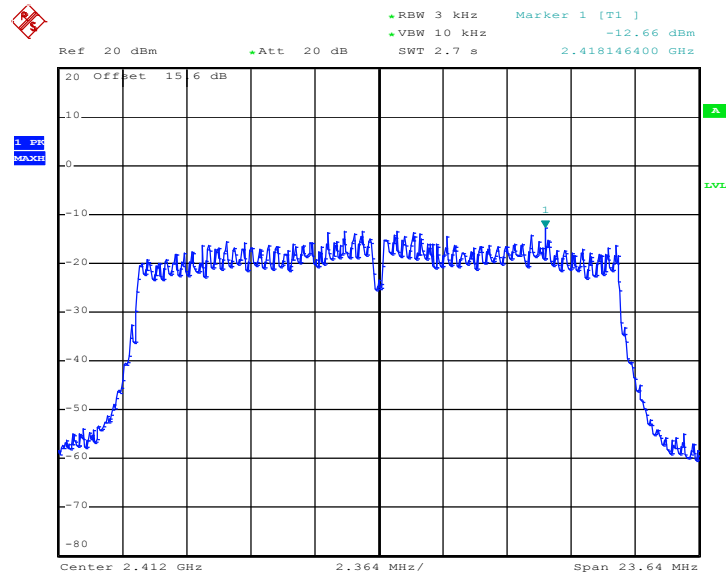


Test Mode :	802.11n HT20	Temperature :	21~22°C
Test Engineer :	Lizy Li	Relative Humidity :	41~42%

Channel	Frequency (MHz)	802.11n HT20 Power Density	Max. Limits (dBm)	Pass/Fail
		PSD/3KHz (dBm)		
01	2412	-12.66	8	Pass
06	2437	-12.59	8	Pass
11	2462	-12.30	8	Pass

Note: Measured power density (dBm) has offset with cable loss.

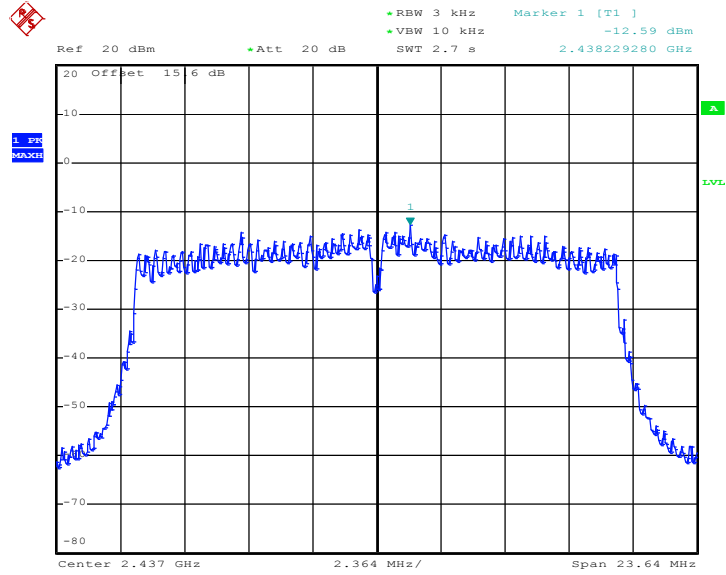
PSD Plot on 802.11n HT20 Channel 01



Date: 11.OCT.2012 18:49:18

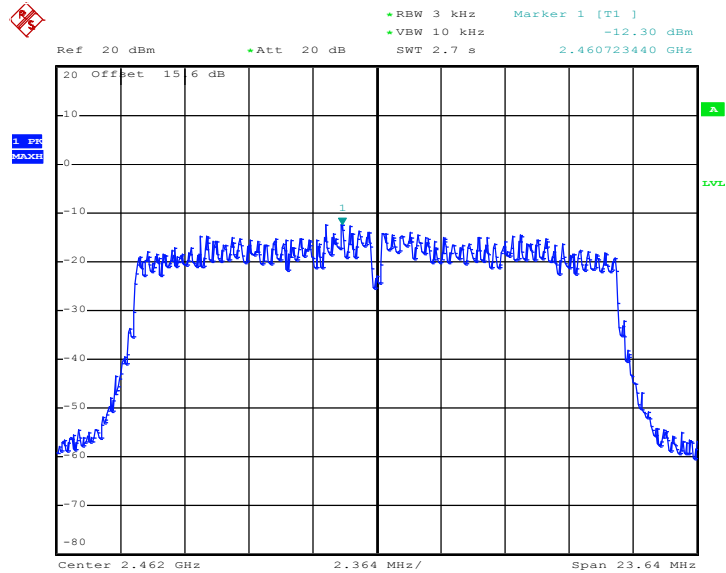


PSD Plot on 802.11n HT20 Channel 06



Date: 11.OCT.2012 19:07:15

PSD Plot on 802.11n HT20 Channel 11



Date: 11.OCT.2012 18:52:49

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and 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 Section 15.209(a).

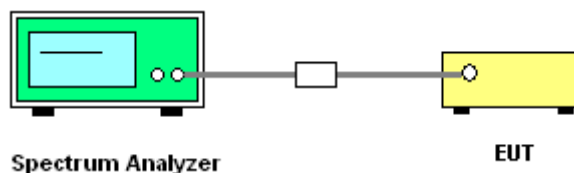
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

1. The testing follows the guidelines in the Measurement Procedure of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance and TCB Workshop 2012, April.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Set RBW = 100 KHz, VBW=300 KHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz, when maximum peak conducted output power procedure is used. The attenuation is set to 30dB, when maximum conducted output power procedure is used.
4. Measure and record the results in the test report.

3.4.4 Test Setup

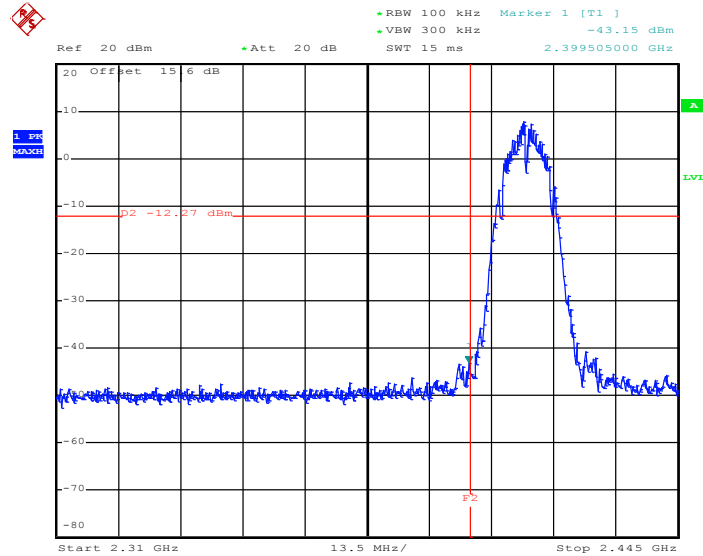




3.4.5 Test Plots of Conducted Band Edges

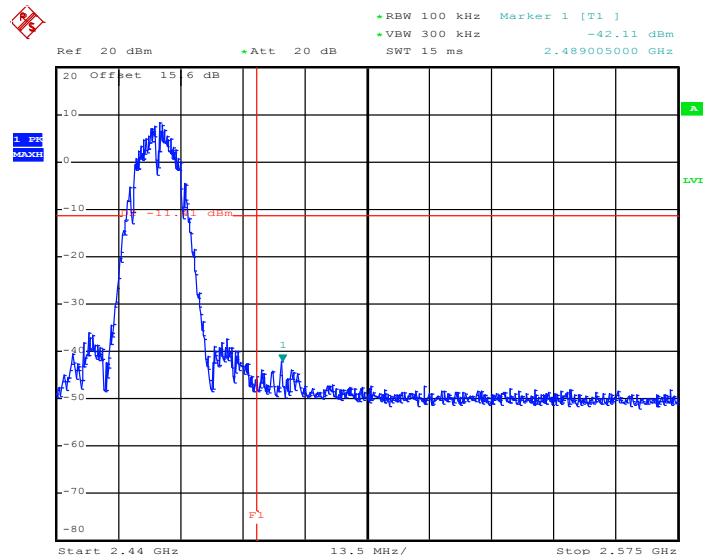
Test Mode :	802.11b	Temperature :	21~22°C
Test Band :	Low and High	Relative Humidity :	41~42%
Test Channel :	01 and 11	Test Engineer :	Lizy Li

Low Band Edge Plot on 802.11b Channel 01



Date: 15.SEP.2012 04:16:02

High Band Edge Plot on 802.11b Channel 11

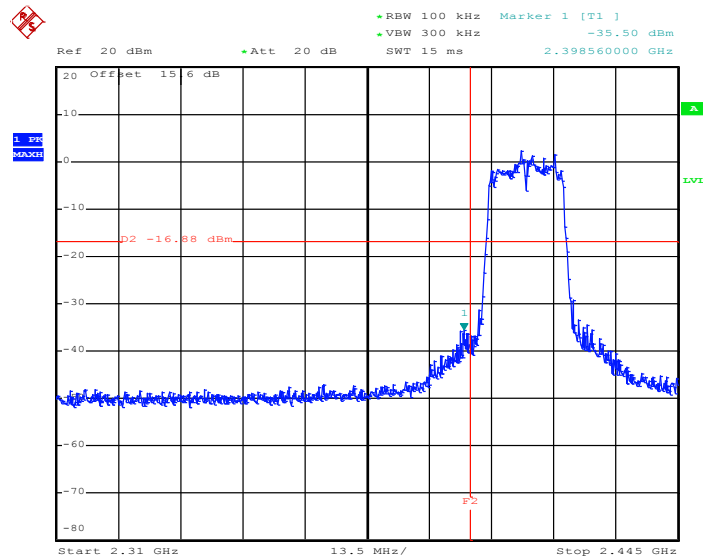


Date: 15.SEP.2012 04:24:36



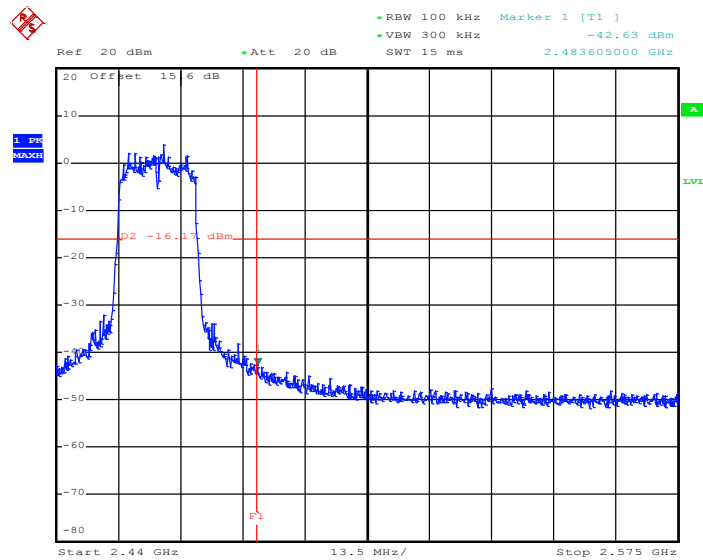
Test Mode :	802.11g	Temperature :	21~22°C
Test Band :	Low and High	Relative Humidity :	41~42%
Test Channel :	01 and 11	Test Engineer :	Lizy Li

Low Band Edge Plot on 802.11g Channel 01



Date: 15.SEP.2012 04:29:41

High Band Edge Plot on 802.11g Channel 11

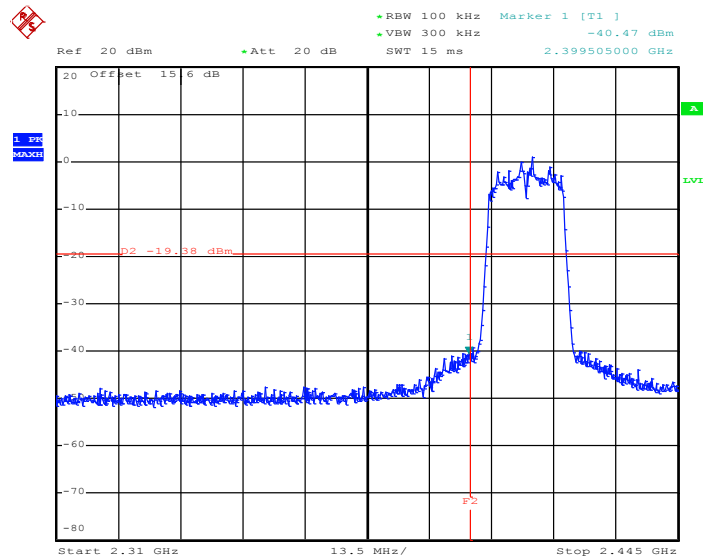


Date: 15.SEP.2012 04:37:58



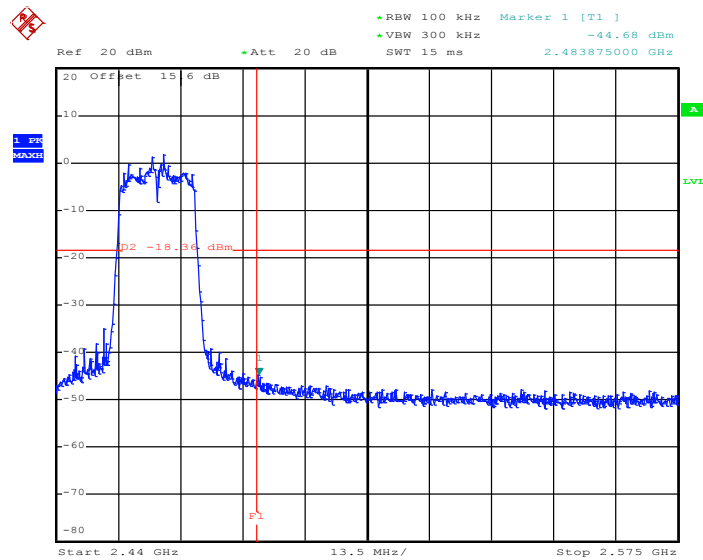
Test Mode :	802.11n HT20	Temperature :	21~22°C
Test Band :	Low and High	Relative Humidity :	41~42%
Test Channel :	01 and 11	Test Engineer :	Lizy Li

Low Band Edge Plot on 802.11n HT20 Channel 01



Date: 15.SEP.2012 04:42:47

High Band Edge Plot on 802.11n HT20 Channel 11



Date: 15.SEP.2012 04:53:29

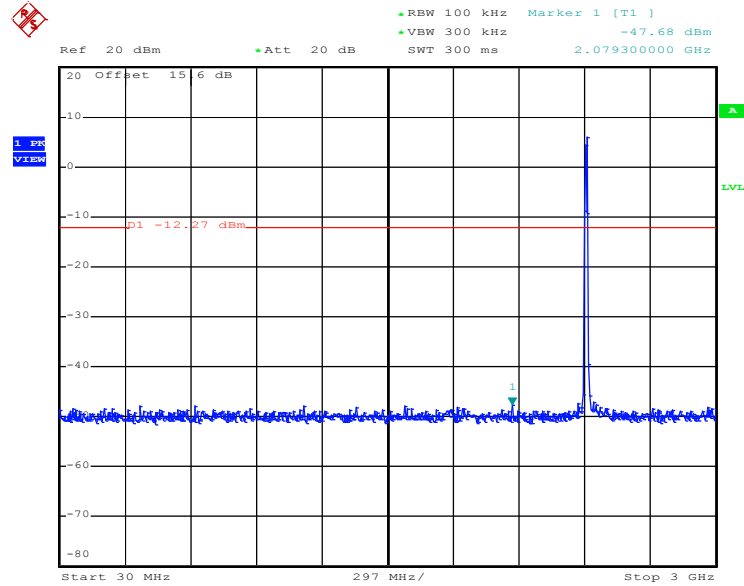


3.4.6 Test Plots of Spurious Emission

Test Mode :	802.11b	Temperature :	21~22°C
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	41~42%
Test Channel :	01, 06, 11	Test Engineer :	Lizy Li

802.11b 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 01

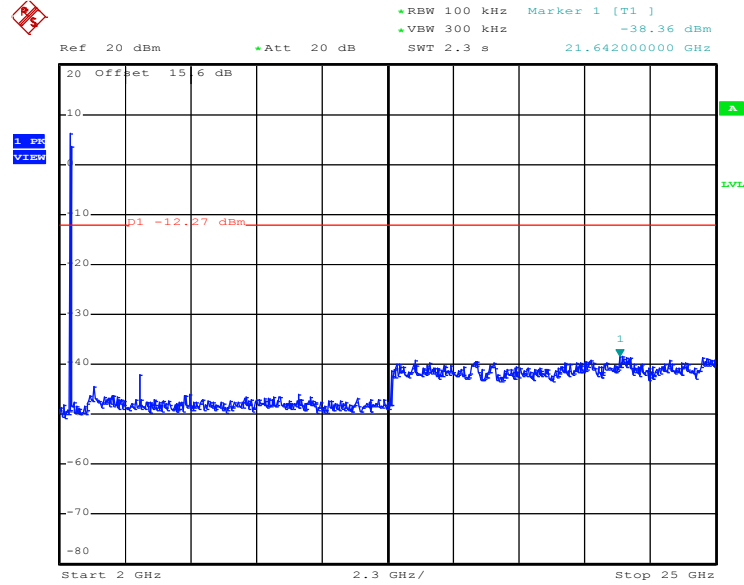


Date: 15.SEP.2012 04:17:14



802.11b 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 01

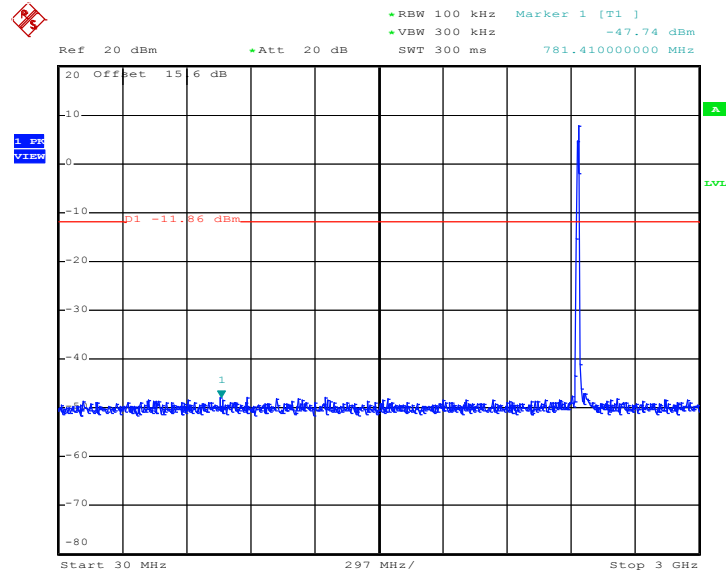


Date: 15.SEP.2012 04:17:32



802.11b 30 MHz~3 GHz

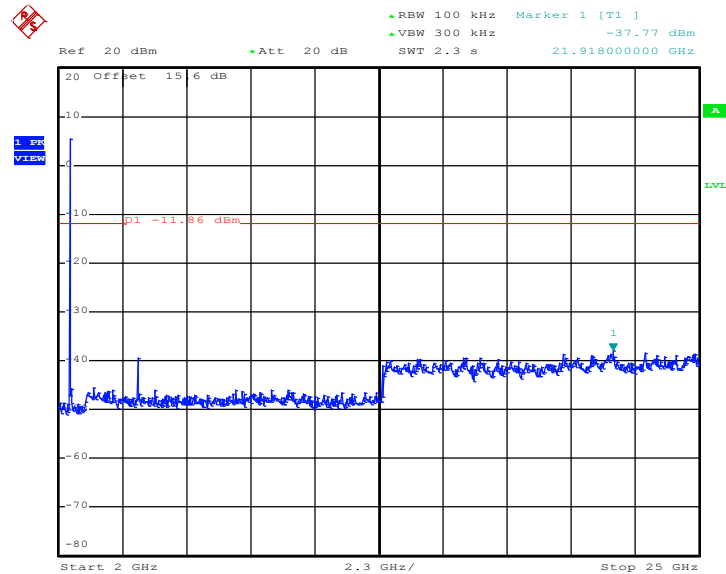
Conducted Spurious Emission Plot on Channel 06



Date: 15.SEP.2012 04:20:59

802.11b 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 06

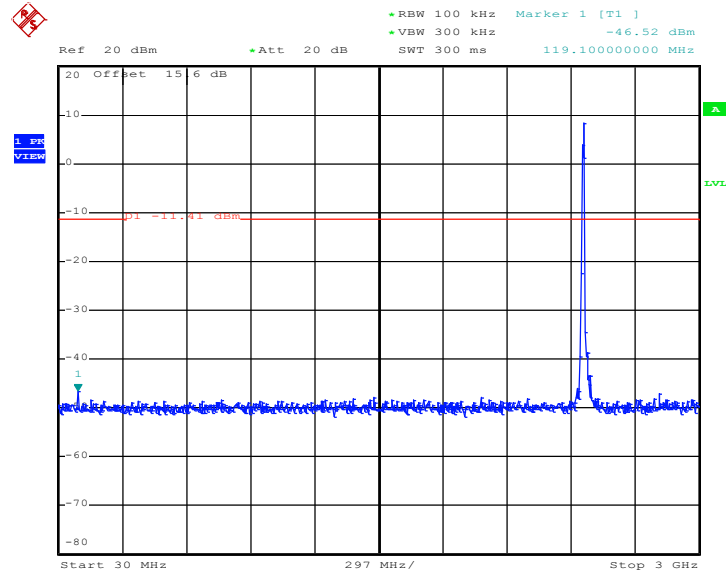


Date: 15.SEP.2012 04:21:18



802.11b 30 MHz~3 GHz

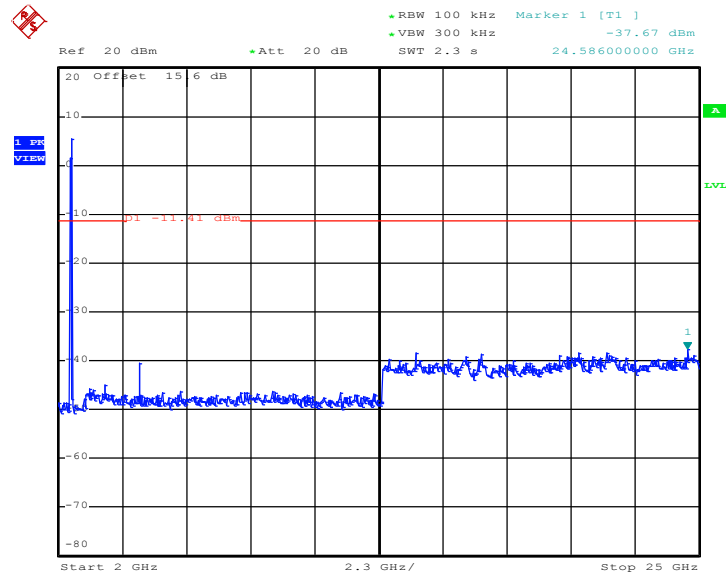
Conducted Spurious Emission Plot on Channel 11



Date: 15.SEP.2012 04:25:05

802.11b 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11



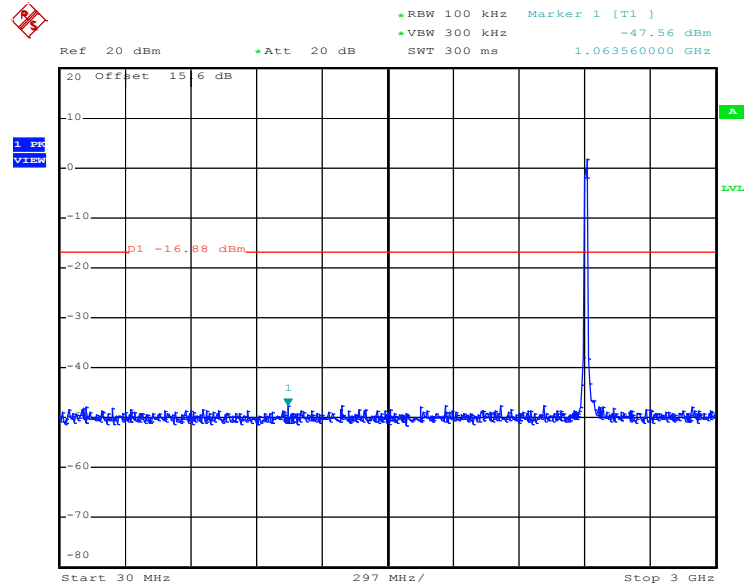
Date: 15.SEP.2012 04:25:23



Test Mode :	802.11g	Temperature :	21~22°C
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	41~42%
Test Channel :	01, 06, 11	Test Engineer :	Lizy Li

802.11g 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 01

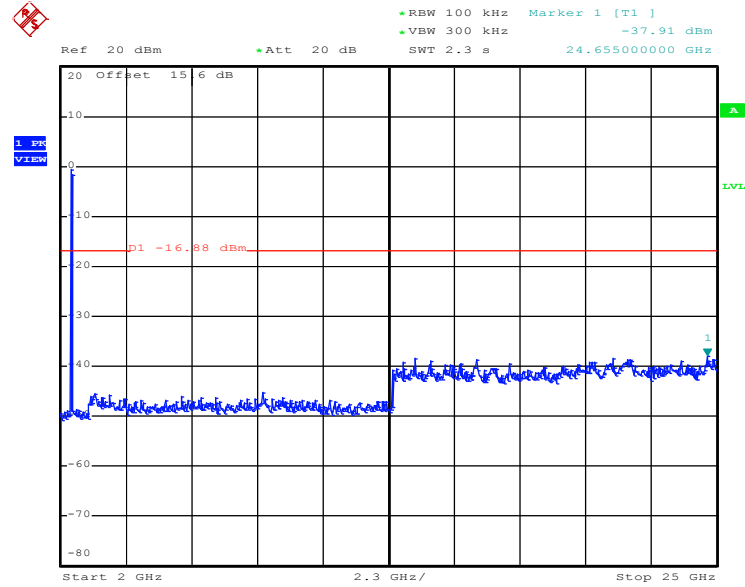


Date: 15.SEP.2012 04:32:03



802.11g 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 01

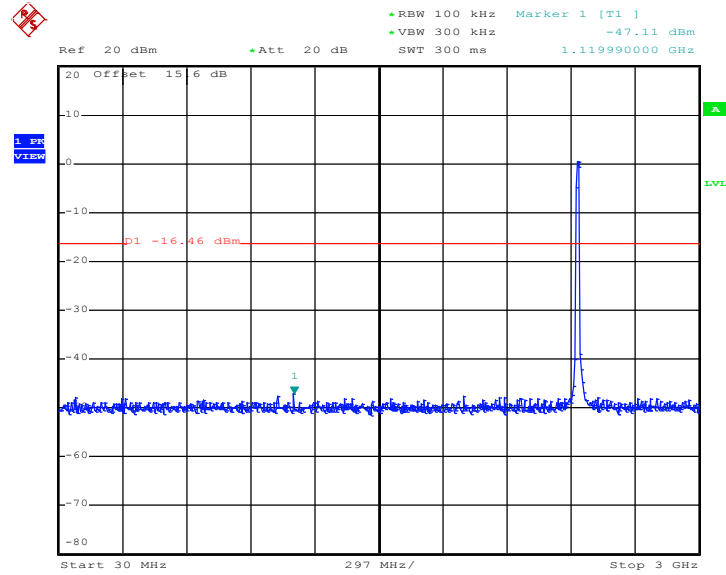


Date: 15.SEP.2012 04:32:22



802.11g 30 MHz~3 GHz

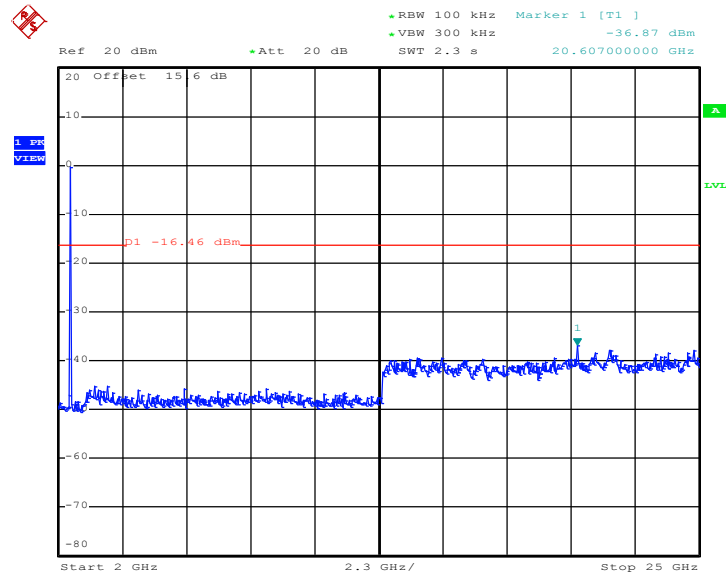
Conducted Spurious Emission Plot on Channel 06



Date: 15.SEP.2012 04:34:38

802.11g 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 06

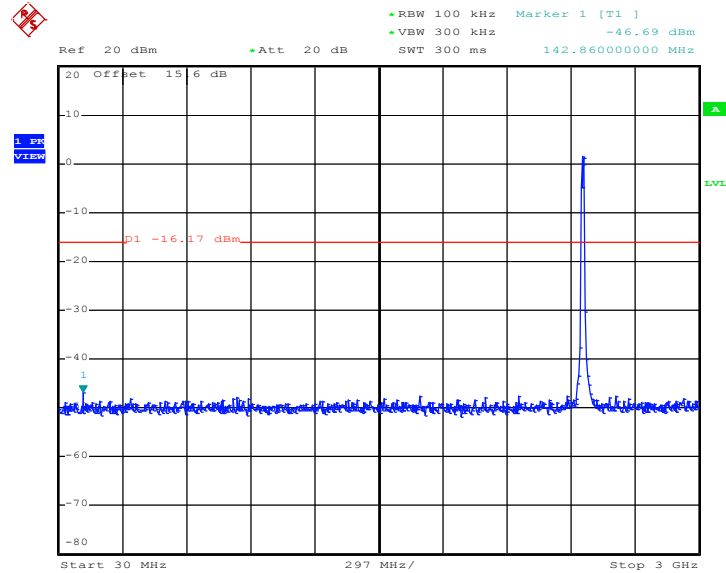


Date: 15.SEP.2012 04:34:56



802.11g 30 MHz~3 GHz

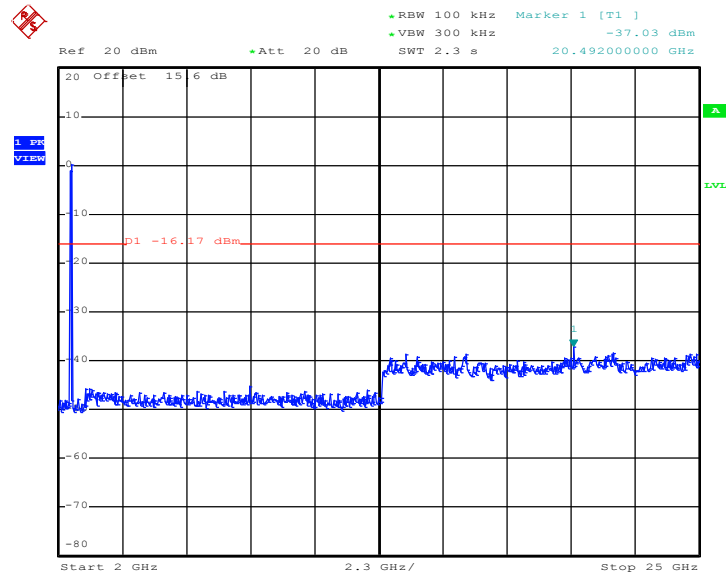
Conducted Spurious Emission Plot on Channel 11



Date: 15.SEP.2012 04:38:54

802.11g 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11



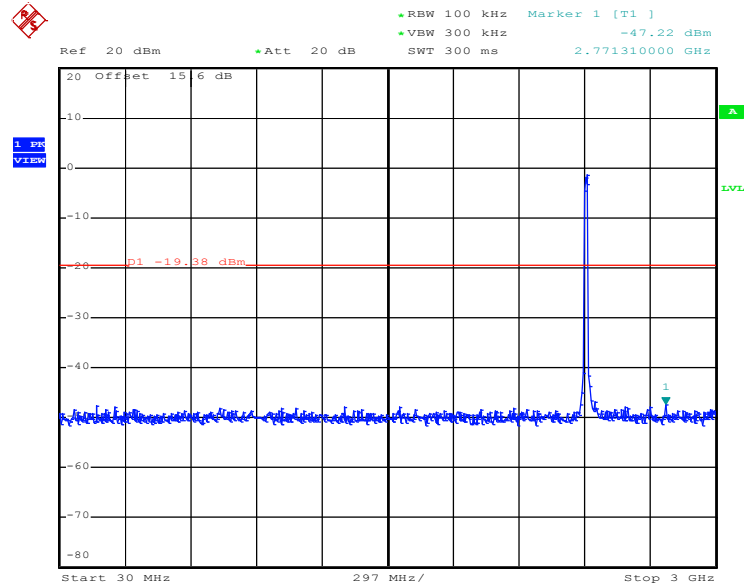
Date: 15.SEP.2012 04:39:13



Test Mode :	802.11n HT20	Temperature :	21~22°C
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	41~42%
Test Channel :	01, 06, 11	Test Engineer :	Lizy Li

802.11n HT20 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 01

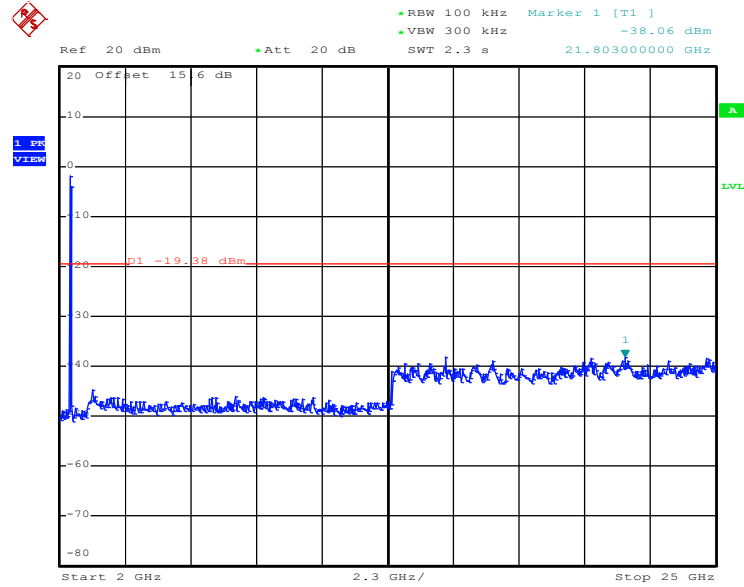


Date: 15.SEP.2012 04:44:10



802.11n HT20 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 01

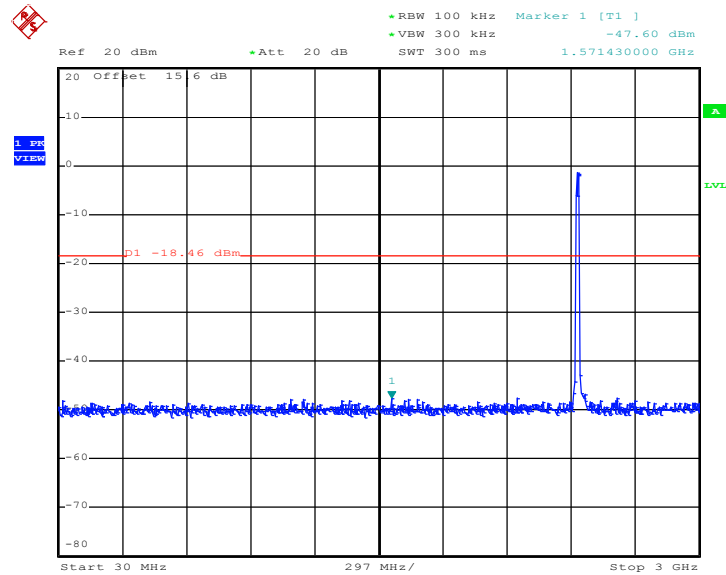


Date: 15.SEP.2012 04:44:29



802.11n HT20 30 MHz~3 GHz

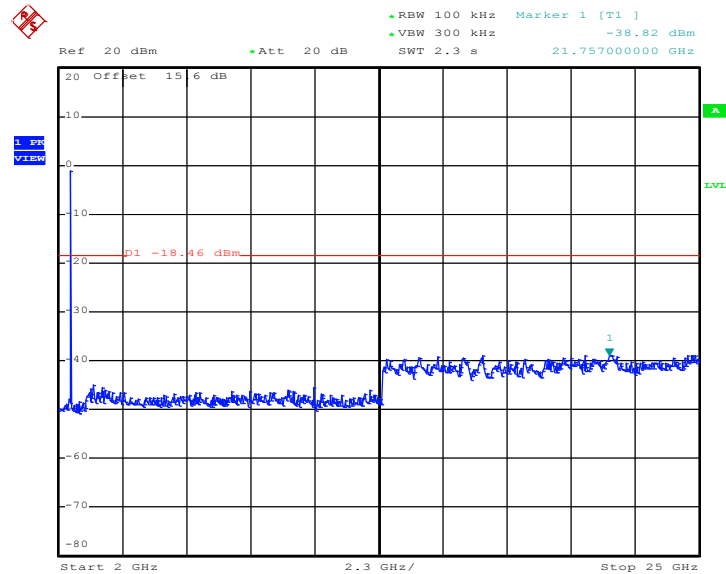
Conducted Spurious Emission Plot on Channel 06



Date: 15.SEP.2012 04:47:39

802.11n HT20 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 06

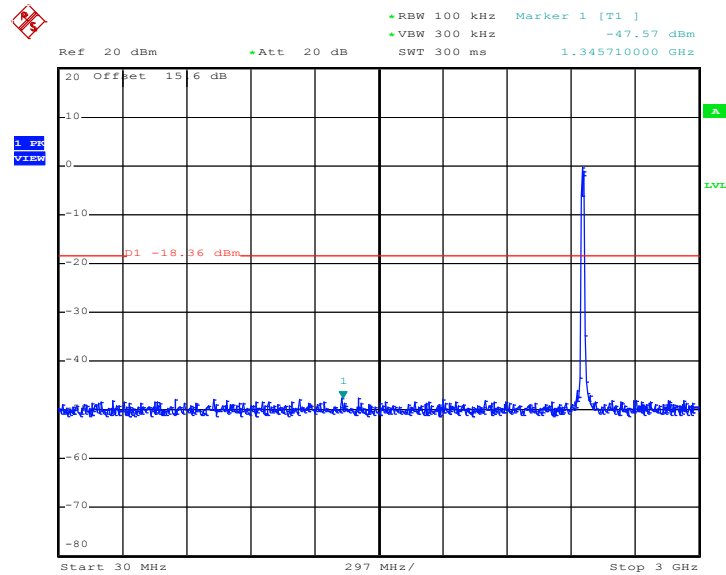


Date: 15.SEP.2012 04:47:58



802.11n HT20 30 MHz~3 GHz

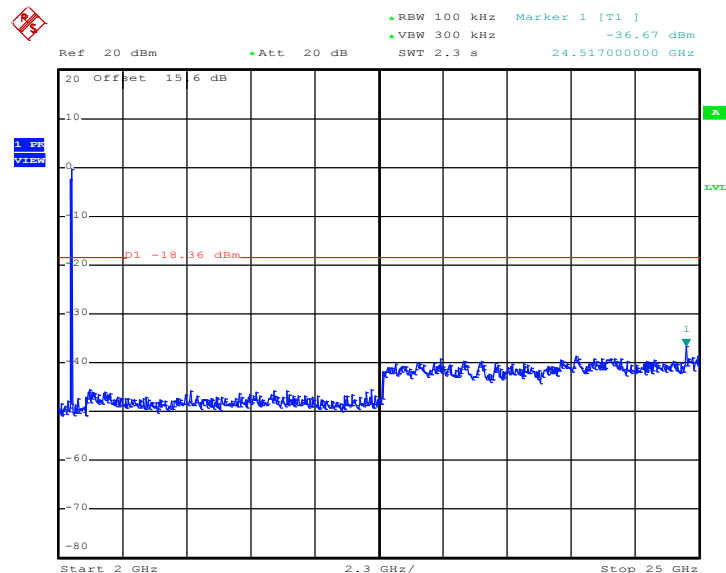
Conducted Spurious Emission Plot on Channel 11



Date: 15.SEP.2012 04:54:59

802.11n HT20 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11



Date: 15.SEP.2012 04:55:18



3.5 Radiated Emission Measurement

3.5.1 Limit of Radiated Emission

In any 100 KHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(KHz)	300
0.490 – 1.705	24000/F(KHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.



3.5.3 Test Procedures

1. The testing follows the guidelines in ANSI C63. 10-2009
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 KHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.

For average measurement:

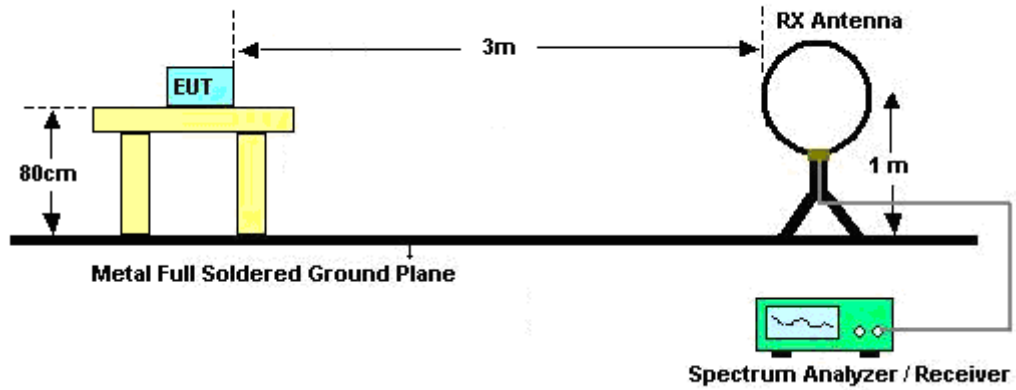
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(us)	1/T(KHz)	VBW Setting
802.11b	99.04	-	-	10Hz
802.11g	94.50	2060.00	0.485	1KHz
802.11n HT20	69.50	262.00	3.817	10KHz

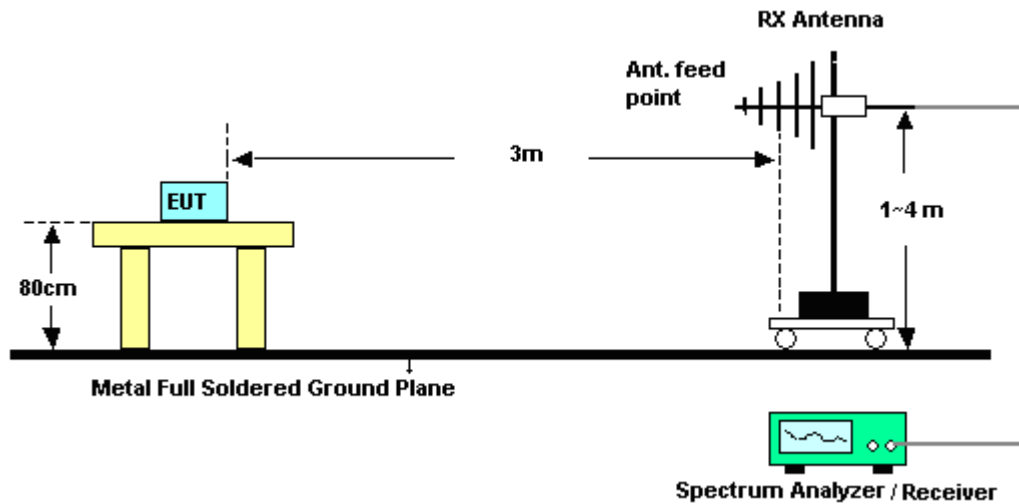
Note: For average measurement with duty cycle < 98%, use reduced VBW measurement method 4.2.3.2.3 in ANSI C63.10.

3.5.4 Test Setup

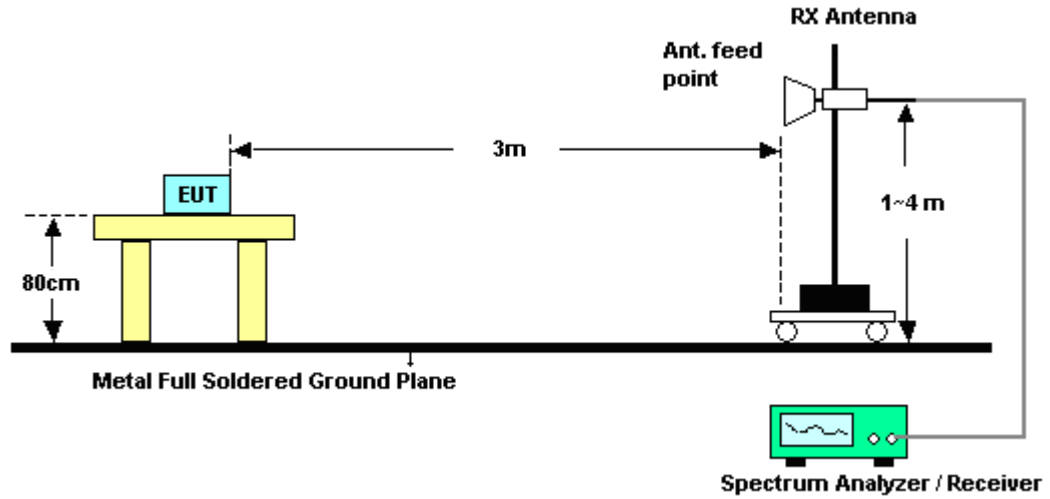
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



3.5.6 Test Result of Radiated Band Edges

Test Mode :	802.11b	Temperature :	19~21°C
Test Band :	Low	Relative Humidity :	43~44%
Test Channel :	01	Test Engineer :	Jack Li

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.2	54.77	-19.23	74	46.76	32.86	4.23	29.08	158	294	Peak
2389.56	43.3	-10.7	54	35.29	32.86	4.23	29.08	158	294	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2381.01	54.14	-19.86	74	46.18	32.83	4.22	29.09	100	360	Peak
2389.38	41.38	-12.62	54	33.37	32.86	4.23	29.08	100	360	Average

Test Mode :	802.11b	Temperature :	19~21°C
Test Band :	High	Relative Humidity :	43~44%
Test Channel :	11	Test Engineer :	Jack Li

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2499.8	56.25	-17.75	74	47.88	33.05	4.31	28.99	191	6	Peak
2491.36	42.31	-11.69	54	33.95	33.05	4.3	28.99	191	6	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2487.8	54.98	-19.02	74	46.64	33.05	4.29	29	100	279	Peak
2488.56	43.32	-10.68	54	34.98	33.05	4.29	29	100	279	Average



Test Mode :	802.11g	Temperature :	19~21°C
Test Band :	Low	Relative Humidity :	43~44%
Test Channel :	01	Test Engineer :	Jack Li

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.74	65.79	-8.21	74	57.78	32.86	4.23	29.08	125	186	Peak
2390	48.17	-5.83	54	40.16	32.86	4.23	29.08	125	186	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.02	66	-8	74	57.99	32.86	4.23	29.08	125	0	Peak
2390	45.34	-8.66	54	37.33	32.86	4.23	29.08	125	0	Average

Test Mode :	802.11g	Temperature :	19~21°C
Test Band :	High	Relative Humidity :	43~44%
Test Channel :	11	Test Engineer :	Jack Li

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.82	64.85	-9.15	74	56.55	33.01	4.29	29	100	299	Peak
2483.5	48.03	-5.97	54	39.73	33.01	4.29	29	100	299	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.6	60.4	-13.6	74	52.1	33.01	4.29	29	100	357	Peak
2483.5	43.5	-10.5	54	35.2	33.01	4.29	29	100	357	Average



Test Mode :	802.11n HT20	Temperature :	19~21°C
Test Band :	Low	Relative Humidity :	43~44%
Test Channel :	01	Test Engineer :	Jack Li

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.56	53.59	-20.41	74	45.58	32.86	4.23	29.08	106	0	Peak
2390	42.57	-11.43	54	34.56	32.86	4.23	29.08	106	0	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2388.3	54.26	-19.74	74	46.25	32.86	4.23	29.08	100	297	Peak
2389.47	43.23	-10.77	54	35.22	32.86	4.23	29.08	100	297	Average

Test Mode :	802.11n HT20	Temperature :	19~21°C
Test Band :	High	Relative Humidity :	43~44%
Test Channel :	11	Test Engineer :	Jack Li

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.52	60.74	-13.26	74	52.44	33.01	4.29	29	108	354	Peak
2483.84	45.31	-8.69	54	37.01	33.01	4.29	29	108	354	Average

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.72	58.86	-15.14	74	50.56	33.01	4.29	29	144	42	Peak
2484.46	44.24	-9.76	54	35.94	33.01	4.29	29	144	42	Average



3.5.7 Test Result of Radiated Emission (30 MHz ~ 10th Harmonic)

Test Mode :	802.11b	Temperature :	19~21°C
Test Channel :	01	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
61.778	22.29	-17.71	40	46.83	5.27	0.32	30.13	-	-	Peak
171.393	23.28	-20.22	43.5	43.55	9.08	0.55	29.9	-	-	Peak
251.18	40.37	-5.63	46	57.53	12.01	0.67	29.84	100	98	Peak
352.943	39.83	-6.17	46	54.39	14.56	0.82	29.94	-	-	Peak
541.373	26.76	-19.24	46	37.13	18.33	0.99	29.69	-	-	Peak
945.44	29.27	-16.73	46	36.77	20.71	1.33	29.54	-	-	Peak
2412	107.71	-	-	99.63	32.89	4.24	29.05	157	191	Peak
2412	103.02	-	-	94.94	32.89	4.24	29.05	157	191	Average



Test Mode :	802.11b	Temperature :	19~21°C
Test Channel :	01	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
61.778	19.6	-20.4	40	44.14	5.27	0.32	30.13	-	-	Peak
251.18	35.31	-10.69	46	52.47	12.01	0.67	29.84	-	-	Peak
349.25	35.65	-10.35	46	50.29	14.48	0.82	29.94	100	161	Peak
449.556	25.84	-20.16	46	38.43	16.3	0.9	29.79	-	-	Peak
552.883	35.32	-10.68	46	45.5	18.5	1	29.68	-	-	Peak
942.131	31.11	-14.89	46	38.61	20.7	1.33	29.53	-	-	Peak
2412	103.91	-	-	95.83	32.89	4.24	29.05	100	360	Peak
2412	98.85	-	-	90.77	32.89	4.24	29.05	100	360	Average



Test Mode :	802.11b	Temperature :	19~21°C
Test Channel :	06	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
61.132	21.78	-18.22	40	46.32	5.28	0.31	30.13	-	-	Peak
164.908	20.21	-23.29	43.5	40.2	9.4	0.54	29.93	-	-	Peak
257.422	39.98	-6.02	46	57.06	12.1	0.68	29.86	100	31	Peak
346.809	39.29	-6.71	46	53.97	14.44	0.82	29.94	-	-	Peak
463.97	25.5	-20.5	46	37.87	16.5	0.91	29.78	-	-	Peak
948.761	28.52	-17.48	46	36	20.73	1.33	29.54	-	-	Peak
2437	108.97	-	-	100.8	32.95	4.25	29.03	157	329	Peak
2437	103.83	-	-	95.66	32.95	4.25	29.03	157	329	Average



Test Mode :	802.11b	Temperature :	19~21°C
Test Channel :	06	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
88.652	20.93	-22.57	43.5	42.25	8.3	0.38	30	-	-	Peak
251.18	32.92	-13.08	46	50.08	12.01	0.67	29.84	-	-	Peak
356.676	32.39	-13.61	46	46.85	14.65	0.82	29.93	-	-	Peak
460.727	26.26	-19.74	46	38.68	16.45	0.91	29.78	-	-	Peak
543.274	36.9	-9.1	46	47.21	18.37	1	29.68	100	102	Peak
942.131	30.15	-15.85	46	37.65	20.7	1.33	29.53	-	-	Peak
2437	105.19	-	-	97.02	32.95	4.25	29.03	100	6	Peak
2437	99.62	-	-	91.45	32.95	4.25	29.03	100	6	Average



Test Mode :	802.11b	Temperature :	19~21°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
61.132	21.9	-18.1	40	46.44	5.28	0.31	30.13	-	-	Peak
164.908	22.56	-20.94	43.5	42.55	9.4	0.54	29.93	-	-	Peak
251.18	38.74	-7.26	46	55.9	12.01	0.67	29.84	-	-	Peak
350.477	40.13	-5.87	46	54.75	14.5	0.82	29.94	100	265	Peak
552.883	26.11	-19.89	46	36.29	18.5	1	29.68	-	-	Peak
945.44	29.72	-16.28	46	37.22	20.71	1.33	29.54	-	-	Peak
2462	112.01	-	-	103.77	32.98	4.27	29.01	190	6	Peak
2462	104.44	-	-	96.2	32.98	4.27	29.01	190	6	Average



Test Mode :	802.11b	Temperature :	19~21°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
88.964	22.41	-21.09	43.5	43.4	8.61	0.39	29.99	-	-	Peak
251.18	33.48	-12.52	46	50.64	12.01	0.67	29.84	-	-	Peak
352.943	33.44	-12.56	46	48	14.56	0.82	29.94	-	-	Peak
463.97	27.42	-18.58	46	39.79	16.5	0.91	29.78	-	-	Peak
552.883	35.84	-10.16	46	46.02	18.5	1	29.68	100	89	Peak
942.131	30.28	-15.72	46	37.78	20.7	1.33	29.53	-	-	Peak
2462	107.31	-	-	99.07	32.98	4.27	29.01	155	290	Peak
2462	102.96	-	-	94.72	32.98	4.27	29.01	155	290	Average



Test Mode :	802.11g	Temperature :	19~21°C
Test Channel :	01	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
61.562	21.99	-18.01	40	46.53	5.27	0.32	30.13	-	-	Peak
171.393	26.49	-17.01	43.5	46.76	9.08	0.55	29.9	-	-	Peak
251.18	38.24	-7.76	46	55.4	12.01	0.67	29.84	-	-	Peak
352.943	40.71	-5.29	46	55.27	14.56	0.82	29.94	100	132	Peak
543.274	27.27	-18.73	46	37.58	18.37	1	29.68	-	-	Peak
945.44	33.09	-12.91	46	40.59	20.71	1.33	29.54	-	-	Peak
2412	109.11	-	-	101.03	32.89	4.24	29.05	100	45	Peak
2412	97.48	-	-	89.4	32.89	4.24	29.05	100	45	Average



Test Mode :	802.11g	Temperature :	19~21°C
Test Channel :	01	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
60.492	22.24	-17.76	40	46.77	5.3	0.31	30.14	-	-	Peak
88.964	22.09	-21.41	43.5	43.08	8.61	0.39	29.99	-	-	Peak
257.422	36.14	-9.86	46	53.22	12.1	0.68	29.86	100	151	Peak
349.25	30.23	-15.77	46	44.87	14.48	0.82	29.94	-	-	Peak
554.825	34.49	-11.51	46	44.66	18.51	1	29.68	-	-	Peak
945.44	31.34	-14.66	46	38.84	20.71	1.33	29.54	-	-	Peak
2412	105.74	-	-	97.66	32.89	4.24	29.05	100	360	Peak
2412	94.26	-	-	86.18	32.89	4.24	29.05	100	360	Average



Test Mode :	802.11g	Temperature :	19~21°C
Test Channel :	06	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
60.492	22.21	-17.79	40	46.74	5.3	0.31	30.14	-	-	Peak
231.718	33.75	-12.25	46	51.95	11.04	0.64	29.88	-	-	Peak
257.422	40.13	-5.87	46	57.21	12.1	0.68	29.86	100	285	Peak
346.809	39.14	-6.86	46	53.82	14.44	0.82	29.94	-	-	Peak
547.098	27.64	-18.36	46	37.87	18.45	1	29.68	-	-	Peak
945.44	32.13	-13.87	46	39.63	20.71	1.33	29.54	-	-	Peak
2437	111.29	-	-	103.12	32.95	4.25	29.03	100	76	Peak
2437	100.01	-	-	91.84	32.95	4.25	29.03	100	76	Average



Test Mode :	802.11g	Temperature :	19~21°C
Test Channel :	06	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
61.132	22.11	-17.89	40	46.65	5.28	0.31	30.13	-	-	Peak
250.301	35.46	-10.54	46	52.63	12	0.67	29.84	-	-	Peak
351.708	33.77	-12.23	46	48.35	14.54	0.82	29.94	-	-	Peak
457.507	27.35	-18.65	46	39.82	16.4	0.91	29.78	-	-	Peak
552.883	36.08	-9.92	46	46.26	18.5	1	29.68	100	69	Peak
945.44	33.49	-12.51	46	40.99	20.71	1.33	29.54	-	-	Peak
2437	107.85	-	-	99.68	32.95	4.25	29.03	100	317	Peak
2437	95.76	-	-	87.59	32.95	4.25	29.03	100	317	Average



Test Mode :	802.11g	Temperature :	19~21°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
61.346	21.59	-18.41	40	46.13	5.28	0.31	30.13	-	-	Peak
152.13	27.26	-16.24	43.5	46.78	9.93	0.51	29.96	-	-	Peak
251.18	40.88	-5.12	46	58.04	12.01	0.67	29.84	100	81	Peak
349.25	39.73	-6.27	46	54.37	14.48	0.82	29.94	-	-	Peak
543.274	28.14	-17.86	46	38.45	18.37	1	29.68	-	-	Peak
945.44	38.16	-7.84	46	45.66	20.71	1.33	29.54	-	-	Peak
2462	112.95	-	-	104.71	32.98	4.27	29.01	100	200	Peak
2462	100.92	-	-	92.68	32.98	4.27	29.01	100	200	Average



Test Mode :	802.11g	Temperature :	19~21°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
61.778	22.36	-17.64	40	46.9	5.27	0.32	30.13	-	-	Peak
251.18	35.87	-10.13	46	53.03	12.01	0.67	29.84	-	-	Peak
352.943	33.71	-12.29	46	48.27	14.56	0.82	29.94	-	-	Peak
463.97	26.54	-19.46	46	38.91	16.5	0.91	29.78	-	-	Peak
552.883	36.35	-9.65	46	46.53	18.5	1	29.68	100	192	Peak
942.131	33.03	-12.97	46	40.53	20.7	1.33	29.53	-	-	Peak
2462	107.08	-	-	98.84	32.98	4.27	29.01	156	307	Peak
2462	95.82	-	-	87.58	32.98	4.27	29.01	156	307	Average



Test Mode :	802.11n HT20	Temperature :	19~21°C
Test Channel :	01	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
61.778	22.22	-17.78	40	46.76	5.27	0.32	30.13	-	-	Peak
171.393	24.93	-18.57	43.5	45.2	9.08	0.55	29.9	-	-	Peak
257.422	40.71	-5.29	46	57.79	12.1	0.68	29.86	100	163	Peak
352.943	38.09	-7.91	46	52.65	14.56	0.82	29.94	-	-	Peak
541.373	27.05	-18.95	46	37.42	18.33	0.99	29.69	-	-	Peak
945.44	33.69	-12.31	46	41.19	20.71	1.33	29.54	-	-	Peak
2412	105.87	-	-	97.79	32.89	4.24	29.05	189	330	Peak
2412	95.21	-	-	87.13	32.89	4.24	29.05	189	330	Average



Test Mode :	802.11n HT20	Temperature :	19~21°C
Test Channel :	01	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
43.506	26.9	-13.1	40	46.71	10.03	0.27	30.11	-	-	Peak
253.837	36.29	-9.71	46	53.41	12.06	0.67	29.85	100	312	Peak
355.427	29.02	-16.98	46	43.53	14.6	0.82	29.93	-	-	Peak
460.727	27.53	-18.47	46	39.95	16.45	0.91	29.78	-	-	Peak
562.662	35.37	-10.63	46	45.51	18.52	1.01	29.67	-	-	Peak
945.44	32.31	-13.69	46	39.81	20.71	1.33	29.54	-	-	Peak
2412	103.12	-	-	95.04	32.89	4.24	29.05	108	354	Peak
2412	92.84	-	-	84.76	32.89	4.24	29.05	108	354	Average



Test Mode :	802.11n HT20	Temperature :	19~21°C
Test Channel :	06	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
61.346	21.48	-18.52	40	46.02	5.28	0.31	30.13	-	-	Peak
171.393	26.95	-16.55	43.5	47.22	9.08	0.55	29.9	-	-	Peak
257.422	41.6	-4.4	46	58.68	12.1	0.68	29.86	100	293	Peak
352.943	39.19	-6.81	46	53.75	14.56	0.82	29.94	-	-	Peak
543.274	27.88	-18.12	46	38.19	18.37	1	29.68	-	-	Peak
945.44	32.58	-13.42	46	40.08	20.71	1.33	29.54	-	-	Peak
2437	106.03	-	-	97.86	32.95	4.25	29.03	100	48	Peak
2437	96.01	-	-	87.84	32.95	4.25	29.03	100	48	Average



Test Mode :	802.11n HT20	Temperature :	19~21°C
Test Channel :	06	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
60.918	22.45	-17.55	40	46.99	5.28	0.31	30.13	-	-	Peak
88.964	22.29	-21.21	43.5	43.28	8.61	0.39	29.99	-	-	Peak
251.18	38.55	-7.45	46	55.71	12.01	0.67	29.84	100	166	Peak
352.943	33.33	-12.67	46	47.89	14.56	0.82	29.94	-	-	Peak
558.73	34.08	-11.92	46	44.23	18.51	1.01	29.67	-	-	Peak
942.131	32.39	-13.61	46	39.89	20.7	1.33	29.53	-	-	Peak
2437	103.48	-	-	95.31	32.95	4.25	29.03	126	288	Peak
2437	93.58	-	-	85.41	32.95	4.25	29.03	126	288	Average



Test Mode :	802.11n HT20	Temperature :	19~21°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
61.778	22.19	-17.81	40	46.73	5.27	0.32	30.13	-	-	Peak
171.393	27.25	-16.25	43.5	47.52	9.08	0.55	29.9	-	-	Peak
251.18	40.56	-5.44	46	57.72	12.01	0.67	29.84	100	183	Peak
352.943	37.53	-8.47	46	52.09	14.56	0.82	29.94	-	-	Peak
550.948	27.81	-18.19	46	37.99	18.5	1	29.68	-	-	Peak
942.131	31.97	-14.03	46	39.47	20.7	1.33	29.53	-	-	Peak
2462	107.14	-	-	98.9	32.98	4.27	29.01	106	354	Peak
2462	97.48	-	-	89.24	32.98	4.27	29.01	106	354	Average



Test Mode :	802.11n HT20	Temperature :	19~21°C
Test Channel :	11	Relative Humidity :	43~44%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.		

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
60.918	22.51	-17.49	40	47.05	5.28	0.31	30.13	-	-	Peak
257.422	34.86	-11.14	46	51.94	12.1	0.68	29.86	-	-	Peak
355.427	33.82	-12.18	46	48.33	14.6	0.82	29.93	-	-	Peak
463.97	26.53	-19.47	46	38.9	16.5	0.91	29.78	-	-	Peak
549.02	36.68	-9.32	46	46.88	18.48	1	29.68	100	256	Peak
945.44	31.65	-14.35	46	39.15	20.71	1.33	29.54	-	-	Peak
2462	104.4	-	-	96.16	32.98	4.27	29.01	145	46	Peak
2462	94.34	-	-	86.1	32.98	4.27	29.01	145	46	Average

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 KHz to 30 MHz shall not exceed the limits in the following table.

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

*Decreases with the logarithm of the frequency.

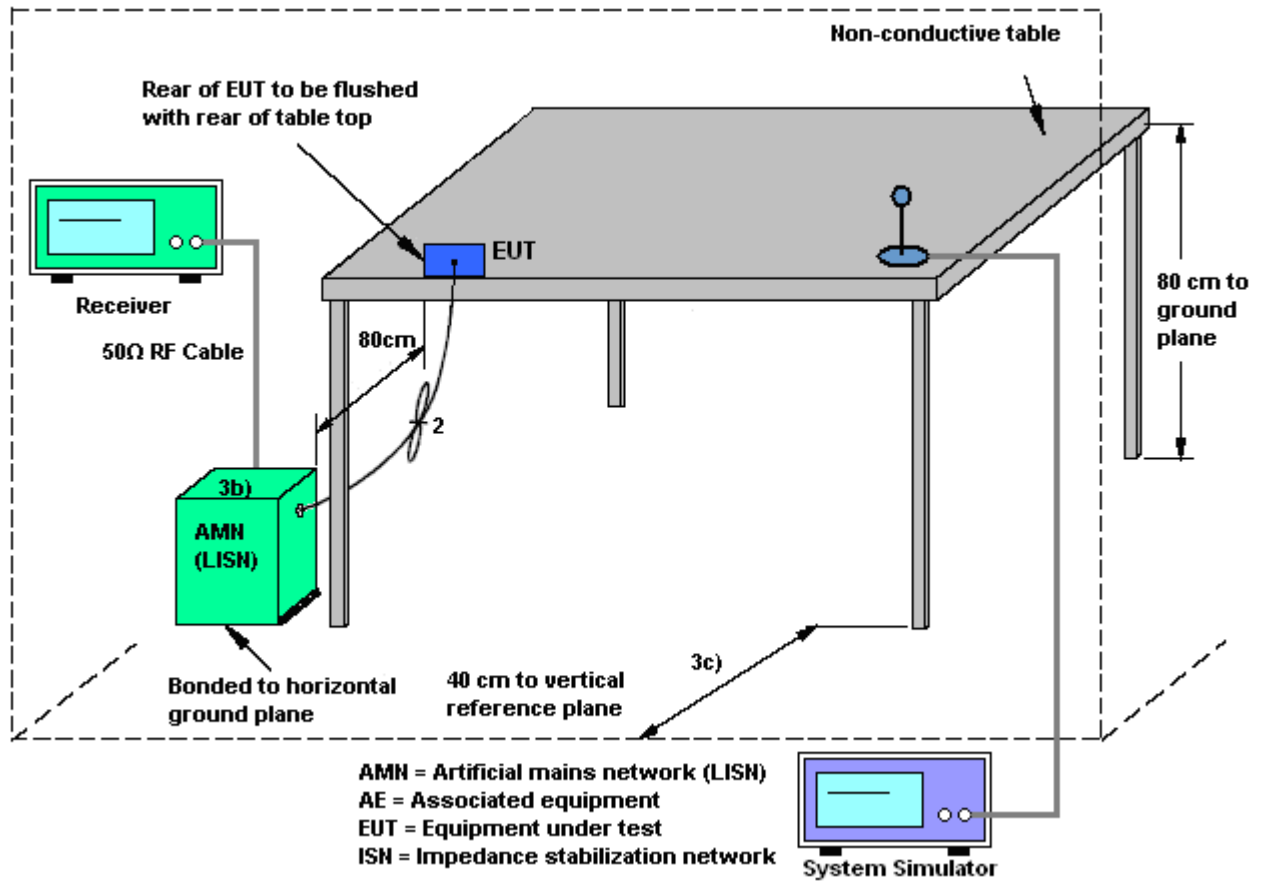
3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

1. The testing follows the guidelines in ANSI C63.4-2003 and ANSI C63.10-2009.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 KHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

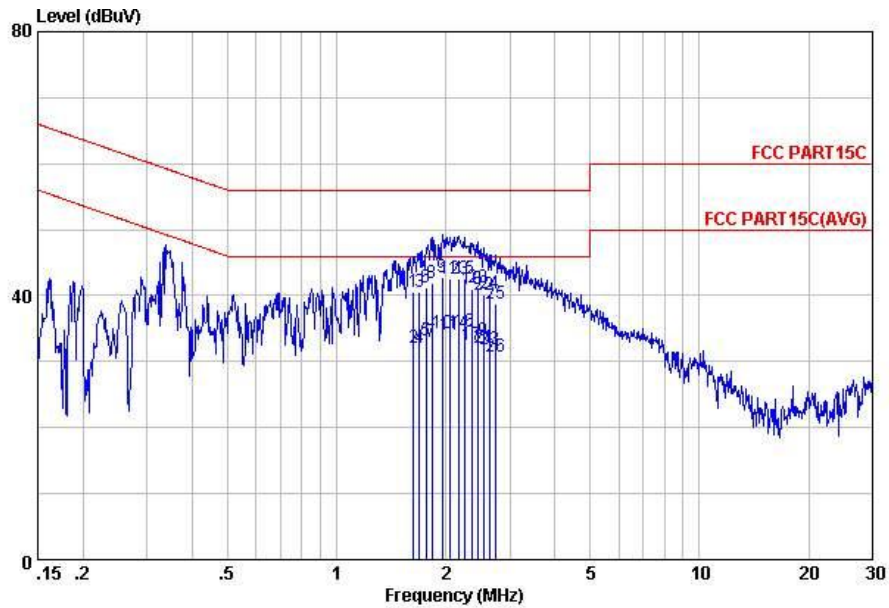
3.6.4 Test Setup





3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	19~20°C
Test Engineer :	Tom Wang	Relative Humidity :	39~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN Link + Earphone + Camera + USB Cable (Charging from Adapter)		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

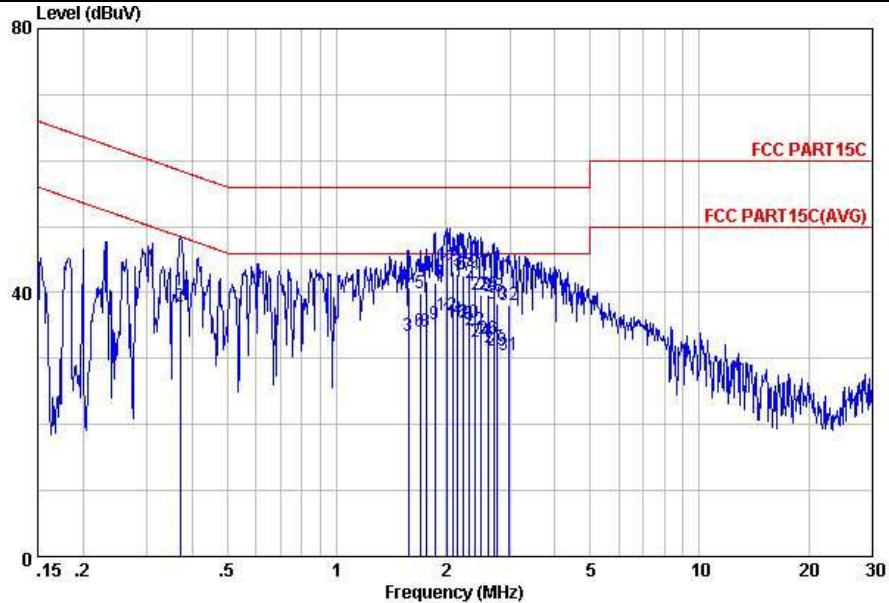


Site : C001-KS
 Condition: FCC PART15C LISN-111230 LINE
 Project : (FR) 280827
 mode : Mode 1

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	1.63	40.58	-15.42	56.00	30.00	-0.11	10.69	QP
2	1.63	32.18	-13.82	46.00	21.60	-0.11	10.69	Average
3	1.69	40.48	-15.52	56.00	29.90	-0.11	10.69	QP
4	1.69	32.08	-13.92	46.00	21.50	-0.11	10.69	Average
5	1.76	33.29	-12.71	46.00	22.71	-0.11	10.69	Average
6	1.76	41.29	-14.71	56.00	30.71	-0.11	10.69	QP
7	1.83	32.89	-13.11	46.00	22.30	-0.11	10.70	Average
8	1.83	41.89	-14.11	56.00	31.30	-0.11	10.70	QP
9	1.96	42.89	-13.11	56.00	32.30	-0.11	10.70	QP
10	1.96	34.29	-11.71	46.00	23.70	-0.11	10.70	Average
11	2.05	33.99	-12.01	46.00	23.40	-0.11	10.70	Average
12	2.05	42.49	-13.51	56.00	31.90	-0.11	10.70	QP
13	2.17	42.60	-13.40	56.00	32.00	-0.11	10.71	QP
14	2.17	34.40	-11.60	46.00	23.80	-0.11	10.71	Average
15	2.25	42.50	-13.50	56.00	31.90	-0.11	10.71	QP
16	2.25	34.60	-11.40	46.00	24.00	-0.11	10.71	Average
17	2.37	32.51	-13.49	46.00	21.90	-0.11	10.72	Average
18	2.37	41.11	-14.89	56.00	30.50	-0.11	10.72	QP
19	2.46	33.11	-12.89	46.00	22.49	-0.11	10.73	Average
20	2.46	41.11	-14.89	56.00	30.49	-0.11	10.73	QP
21	2.55	32.02	-13.98	46.00	21.40	-0.11	10.73	Average
22	2.55	40.22	-15.78	56.00	29.60	-0.11	10.73	QP
23	2.64	31.83	-14.17	46.00	21.20	-0.11	10.74	Average
24	2.64	40.33	-15.67	56.00	29.70	-0.11	10.74	QP
25	2.75	38.74	-17.26	56.00	28.11	-0.12	10.75	QP
26	2.75	30.84	-15.16	46.00	20.21	-0.12	10.75	Average



Test Mode :	Mode 1	Temperature :	19~20°C
Test Engineer :	Tom Wang	Relative Humidity :	39~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN Link + Earphone + Camera + USB Cable (Charging from Adapter)		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

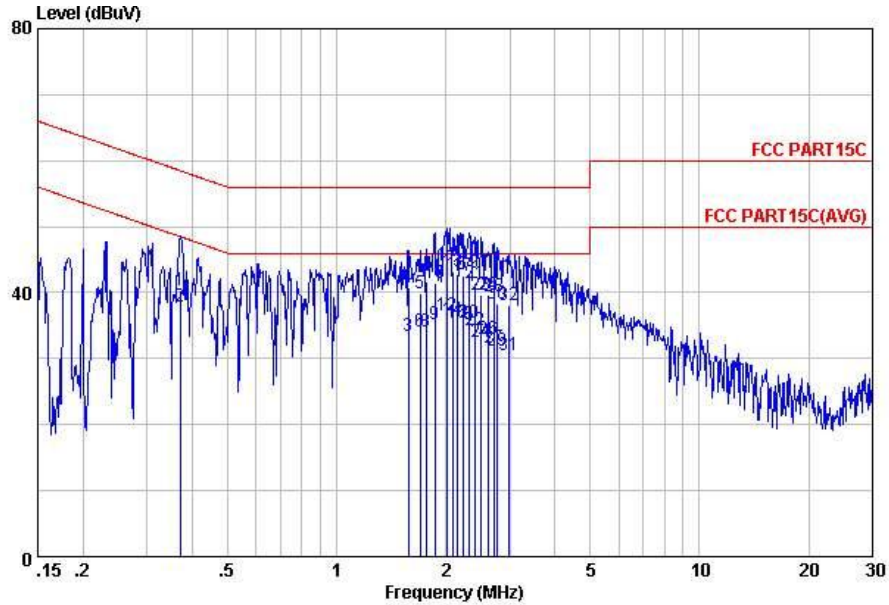


Site : C001-KS
 Condition: FCC PART15C LISN-111230 NEUTRAL
 Project : (FR) 280827
 mode : Mode 1

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.37	40.43	-18.04	58.47	29.90	-0.08	10.61	QP
2	0.37	37.93	-10.54	48.47	27.40	-0.08	10.61	Average
3	1.58	33.38	-12.62	46.00	22.79	-0.10	10.69	Average
4	1.58	40.68	-15.32	56.00	30.09	-0.10	10.69	QP
5	1.70	39.79	-16.21	56.00	29.21	-0.11	10.69	QP
6	1.70	34.09	-11.91	46.00	23.51	-0.11	10.69	Average
7	1.76	41.59	-14.41	56.00	31.01	-0.11	10.69	QP
8	1.76	34.19	-11.81	46.00	23.61	-0.11	10.69	Average
9	1.87	35.29	-10.71	46.00	24.70	-0.11	10.70	Average
10	1.87	41.39	-14.61	56.00	30.80	-0.11	10.70	QP
11	2.01	44.09	-11.91	56.00	33.50	-0.11	10.70	QP
12	2.01	36.59	-9.41	46.00	26.00	-0.11	10.70	Average
13	2.09	43.29	-12.71	56.00	32.70	-0.11	10.70	QP
14	2.09	35.79	-10.21	46.00	25.20	-0.11	10.70	Average
15	2.16	42.70	-13.30	56.00	32.10	-0.11	10.71	QP
16	2.16	35.40	-10.60	46.00	24.80	-0.11	10.71	Average
17	2.24	42.60	-13.40	56.00	32.00	-0.11	10.71	QP
18	2.24	35.20	-10.80	46.00	24.60	-0.11	10.71	Average
19	2.32	42.91	-13.09	56.00	32.30	-0.11	10.72	QP
20	2.32	35.41	-10.59	46.00	24.80	-0.11	10.72	Average
21	2.40	41.41	-14.59	56.00	30.80	-0.11	10.72	QP
22	2.40	34.41	-11.59	46.00	23.80	-0.11	10.72	Average
23	2.50	39.62	-16.38	56.00	29.00	-0.11	10.73	QP
24	2.50	32.62	-13.38	46.00	22.00	-0.11	10.73	Average
25	2.62	39.63	-16.37	56.00	29.00	-0.11	10.74	QP
26	2.62	32.93	-13.07	46.00	22.30	-0.11	10.74	Average
27	2.71	31.53	-14.47	46.00	20.89	-0.11	10.75	Average



Test Mode :	Mode 1	Temperature :	19~20°C
Test Engineer :	Tom Wang	Relative Humidity :	39~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN Link + Earphone + Camera + USB Cable (Charging from Adapter)		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : C001-KS
 Condition: FCC PART15C LISN-111230 NEUTRAL
 Project : (FR) 280827
 mode : Mode 1

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
28	2.71	39.53	-16.47	56.00	28.89	-0.11	10.75	QP
29	2.78	31.24	-14.76	46.00	20.60	-0.12	10.76	Average
30	2.78	38.34	-17.66	56.00	27.70	-0.12	10.76	QP
31	2.99	30.57	-15.43	46.00	19.91	-0.12	10.78	Average
32	2.99	38.17	-17.83	56.00	27.51	-0.12	10.78	QP



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

3.7.2 Antenna Connected Construction

Non-standard connector used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Sep. 12, 2012 ~ Oct. 17, 2012	Dec. 29, 2012	Conducted (TH01-KS)
Power Meter	Agilent	E4416A	MY45101555	N/A	Aug. 22, 2012	Sep. 12, 2012 ~ Oct. 17, 2012	Aug. 21, 2013	Conducted (TH01-KS)
Power Sensor	Agilent	E9327A	MY44421198	N/A	Aug. 22, 2012	Sep. 12, 2012 ~ Oct. 17, 2012	Aug. 21, 2013	Conducted (TH01-KS)
DC Power Supply	GW INSTRON	GPS-3030 D	E1884515	N/A	Aug. 22, 2012	Sep. 12, 2012 ~ Oct. 17, 2012	Aug. 21, 2013	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI7	100768	9kHz~7GHz	Jun. 01, 2012	Sep. 12, 2012	May 31, 2013	Conduction (CO01-KS)
LISN	MessTec	AN3016	060103	9kHz~30MHz	Dec. 30, 2011	Sep. 12, 2012	Dec. 29, 2012	Conduction (CO01-KS)
LISN	MessTec	AN3016	060105	9kHz~30MHz	Dec. 30, 2011	Sep. 12, 2012	Dec. 29, 2012	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	N/A	Nov. 16, 2011	Sep. 12, 2012	Nov. 15, 2012	Conduction (CO01-KS)
System Simulator	R&S	CMU200	116456	Full-Band	Sep. 20, 2011	Sep. 12, 2012	Sep. 19, 2012	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 09, 2011	Sep. 07, 2012	Nov. 08, 2012	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Sep. 07, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 08, 2011	Sep. 07, 2012	Dec. 07, 2012	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2012	Sep. 07, 2012	Jan. 05, 2013	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060029	9KHz~2GHz	Jan. 06, 2012	Sep. 07, 2012	Jan. 05, 2013	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060004	30MHz~2GHz	Dec. 30, 2011	Sep. 07, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 30, 2011	Sep. 07, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701023	1G-18GHz	Nov. 07, 2011	Sep. 07, 2012	Nov. 06, 2012	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15-40GHz	Oct. 11, 2011	Sep. 07, 2012	Oct. 10, 2012	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/001	9KHz ~ 30MHz	Jul. 03, 2012	Sep. 07, 2012	Jul. 02, 2014	Radiation (03CH01-KS)



5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.26
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.54
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.72
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