

Global United Technology Services Co., Ltd.

Report No: GTSE11100084103

FCC REPORT (WiFi)

Corporativo Lanix S.A. de C.V. **Applicant:**

Carrtera internacional Hermosillo-Nogale Km 8.5 Hermosillo Address of Applicant:

Mexico

Equipment Under Test (EUT)

GSM Dual Band GPRS Digital Mobile Phone **Product Name:**

SL₂₀ Model No.:

Trade mark: LANIX

FCC ID: ZC4SL20

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2010

Date of sample receipt: Oct. 11, 2011

Date of Test: Oct.11-13, 2011

Date of report issued: Oct.14, 2011

Test Result: Pass *

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

Authorized Signature:

Stephen Guo Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of GTS International Electrical Approvals or testing done by GTS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by GTS International Electrical Approvals in writing.

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2 Version

Version No.	Date	Description
00	Oct.14, 2011	Original

Prepared By:	Collan. He	Date:	Oct.14, 2011	
	Project Engineer			
Check By:	Hans. Hu	Date:	Oct.14, 2011	
	Reviewer			

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.

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5 General Information

5.1 Client Information

Applicant:	Corporativo Lanix S.A. de C.V.
Address of Applicant:	Carrtera internacional Hermosillo-Nogale Km 8.5 Hermosillo Mexico
Manufacturer:	ShenZhen Konka Telecommunication Technology Co.,Ltd
Address of Manufacturer:	No.9008 Shennan Road, Overseas Chinese Town, ShenZhen, Guangdong, China
Factory:	SHENZHEN KONKA TELECOMMUNICATION TECHNOLOGY CO.,LTD
Address of Factory:	No.9008 Shennan Road, Overseas Chinese Town, ShenZhen, GuangDong, China

5.2 General Description of E.U.T.

Product Name:	GSM Dual Band GPRS Digital Mobile Phone
Model No.:	SL20
Trade mark:	LANIX
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g)
Channel numbers:	11 for 802.11b/802.11g
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Antenna Type:	Integral
Antenna gain:	2dBi (declare by Applicant)
Power supply:	Type:Li-on SL20-BAT 3.7V 850mA Voltage:DC 3.7V

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Operation Frequency each of channel							
Channel Frequency Channel Frequency Channel Frequency							
1 2412MHz		5	2432MHz	9	2452MHz		
2	2 2417MHz		2437MHz 10		2457MHz		
3	2422MHz	7	2442MHz	11	2462MHz		
4	2427MHz	8	2447MHz				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

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5.3 Test environment and mode

Operating Environment:				
Temperature:	24.0 °C			
Humidity:	54 % RH			
Atmospheric Pressure:	1010 mbar			
Test mode:				
WIFI mode	Keep the EUT in communicating mode on WIFI function.			

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g

5.4 Test Facility

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

● FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, July 20, 2010.

Industry Canada (IC)

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen,

China

Tel: 0755-27798480 Fax: 0755-27798960

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5.6 Test Instruments list

Radia	ted Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 30 2011	Mar. 29 2012
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 04 2011	Jul. 03 2012
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 26 2011	Feb. 25 2012
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 30 2011	June 29 2012
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2011	Mar. 29 2012
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	Apr. 01 2011	Mar. 31 2012
9	Coaxial Cable	GTS	N/A	GTS211	Apr. 01 2011	Mar. 31 2012
9	Coaxial cable	GTS	N/A	GTS210	Apr. 01 2011	Mar. 31 2012
11	Coaxial Cable	GTS	N/A	GTS212	Apr. 01 2011	Mar. 31 2012
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 04 2011	Jul. 03 2012
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 04 2011	Jul. 03 2012
14	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 30 2011	June 29 2012
15	Band filter	Amindeon	82346	GTS219	June 30 2011	June 29 2012

Condu	Conducted Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS252	Jul. 04 2011	Jul. 03 2012		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 04 2011	Jul. 03 2012		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 04 2011	Jul. 03 2012		
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 04 2011	Jul. 03 2012		
5	Coaxial Cable	GTS	N/A	GTS227	Apr. 01 2011	Mar. 31 2012		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

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6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: FCC

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

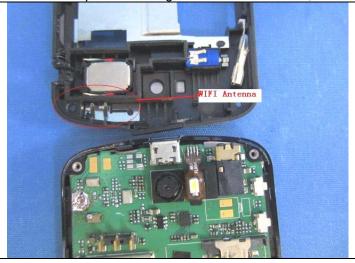
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna port is an integral antenna inside EUT, the best case gain of the antenna is 2.0dBi.



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6.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207	FCC Part15 C Section 15.207							
Test Method:	ANSI C63.4: 2009								
Test Frequency Range:	150KHz to 30MHz								
Class / Severity:	Class B								
Receiver setup:	RBW=9KHz, VBW=30KHz								
Limit:	Frequency range (MHz)	Limit (di	BuV)						
	1 requeries range (wir iz)	Quasi-peak	Average						
	0.15-0.5 66 to 56* 56								
	0.5-5 56								
	5-30	50							
	* Decreases with the logarithm	' '							
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement.								
Test setup:	LISN 40cm AUX Equipment E.U		r — AC power						
Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m									
Test Instruments:	Refer to section 5.6 for details								
Test mode:	Refer to section 5.3 for details								
Test results:	Pass								

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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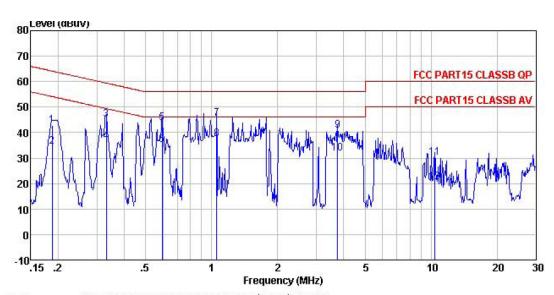
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Line:



Condition : FCC PART15 CLASSB QP LISN(2011) LINE Job No. : 841RF

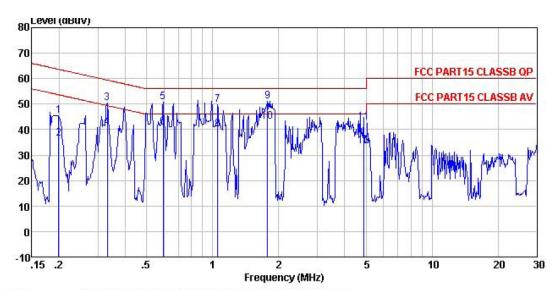
Job No. : 841RF Test Mode : Wifi mode Test Engineer: Osccar

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
i.	MHz	dBuV	dB	dB	dBu√	dBuV	dB	•
1	0.187	42.16	0.66	0.10	42.92	64.15	-21.23	QP
2	0.187	33.64	0.66	0.10	34.40	54.15	-19.75	Average
2 3 4 5 6 7 8 9	0.330	44.29	0.60	0.10	44.99	59.44	-14.45	QP
4	0.330	35.67	0.60	0.10	36.37	49.44	-13.07	Average
5	0.595	43.17	0.53	0.10	43.80	56.00	-12.20	QP
6	0.595	34.49	0.53	0.10	35.12	46.00	-10.88	Average
7	1.054	45.03	0.47	0.10	45.60	56.00	-10.40	QP
8	1.054	36.97	0.47	0.10	37.54	46.00	-8.46	Average
9	3.759	40.27	0.33	0.10	40.70	56.00	-15.30	QP
10	3.759	31.49	0.33	0.10	31.92	46.00	-14.08	Average
11	10.397	29.62	0.22	0.20	30.04	60.00	-29.96	QP
12	10.397	20.17	0.22	0.20	20.59	50.00	-29.41	Average

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Neutral:



Condition : FCC PART15 CLASSB QP LISN(2011) NEUTRAL

Job No. : 841RF Test Mode : Wifi mode Test Engineer: Osccar

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.199	44.82	0.66	0.10	45.58	63.67	-18.09	QP
2	0.199	35.61	0.66	0.10	36.37	53.67	-17.30	Average
3	0.330	49.74	0.60	0.10	50.44	59.44	-9.00	QP
2 3 4 5 6 7	0.330	40.18	0.60	0.10	40.88	49.44	-8.56	Average
5	0.595	50.11	0.53	0.10	50.74	56.00	-5.26	QP
6	0.595	40.17	0.53	0.10	40.80	46.00	-5.20	Average
7	1.054	49.25	0.47	0.10	49.82	56.00	-6.18	QP
8	1.054	39.57	0.47	0.10	40.14	46.00	-5.86	Average
9	1.781	50.51	0.41	0.10	51.02	56.00	-4.98	QP
10	1.781	42.59	0.41	0.10	43.10	46.00	-2.90	Average
11	4.874	42.29	0.30	0.10	42.69	56.00	-13.31	QP
12	4.874	33.19	0.30	0.10	33.59	46.00	-12.41	Average

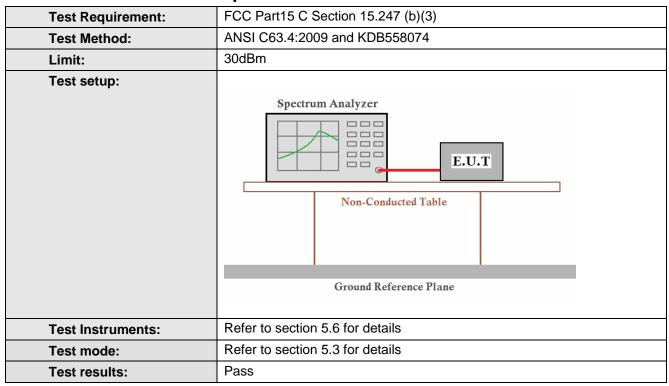
Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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6.3 Conducted Peak Output Power



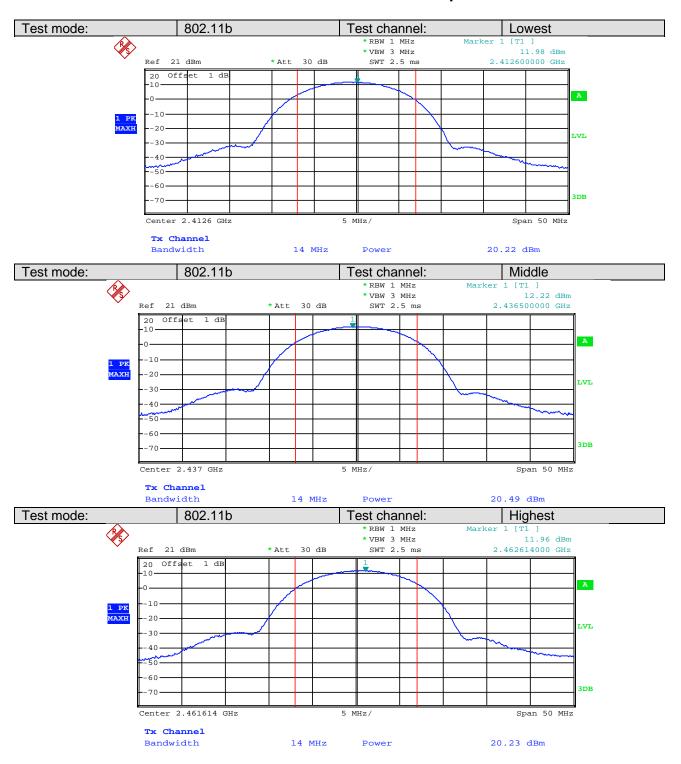
Measurement Data

wedstrement bata										
	802.11b mode									
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result							
Lowest	20.22	30.00	Pass							
Middle	20.49	30.00	Pass							
Highest	20.23	30.00	Pass							
	802.11g mo	ode								
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result							
Lowest	21.95	30.00	Pass							
Middle	22.54	30.00	Pass							
Highest	22.81	30.00	Pass							

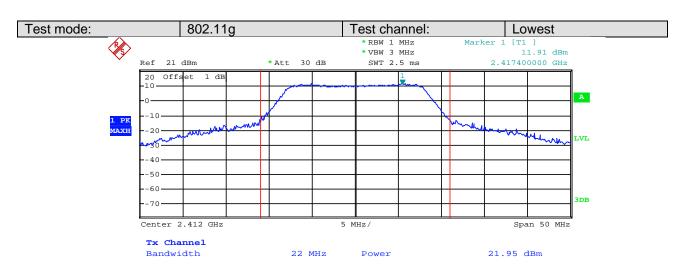
Test plot as follows:

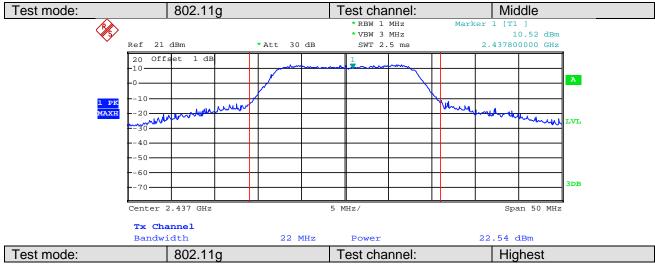
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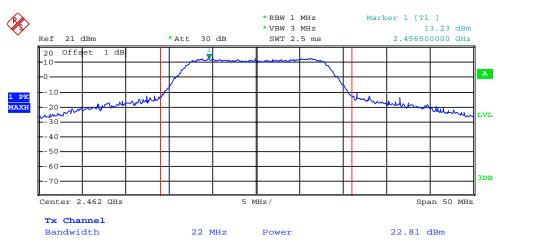










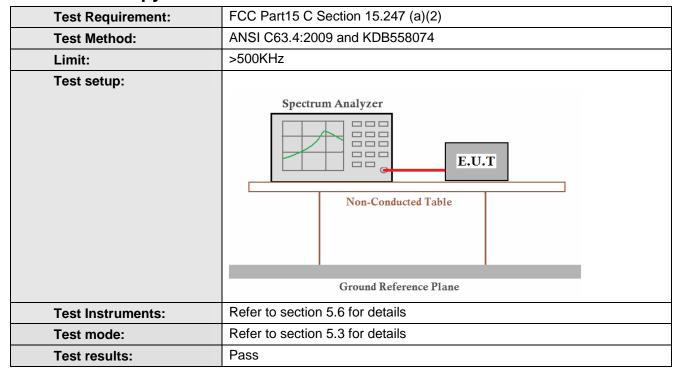


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6.4 6dB Occupy Bandwidth



Measurement Data

Wieasurement Data									
802.11b mode									
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result						
Lowest	10.44	>500	Pass						
Middle	10.24	>500	Pass						
Highest	9.68	>500	Pass						
	802.11g mode								
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result						
Lowest	16.56	>500	Pass						
Middle	16.52	>500	Pass						
Highest	16.56	>500	Pass						

Test plot as follows:

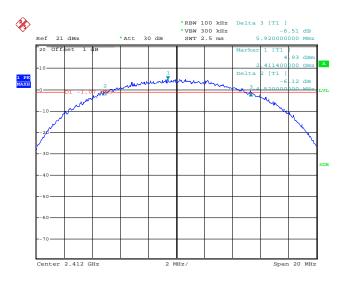
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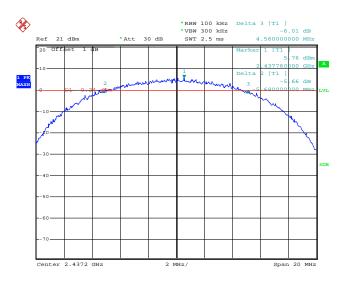






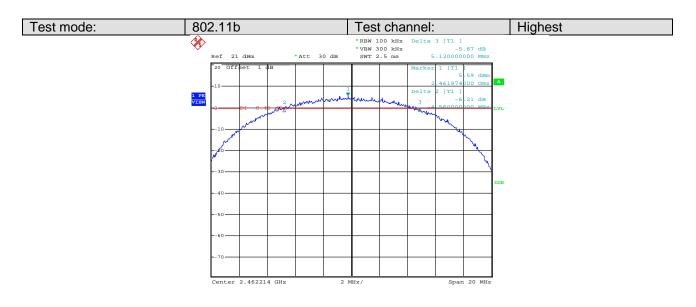
Date: 12.OCT.2011 02:59:19

Test mode: 802.11b Test channel: Middle



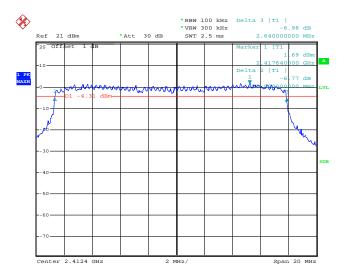
Date: 12.0CT.2011 03:09:11





Date: 12.0CT.2011 03:16:11

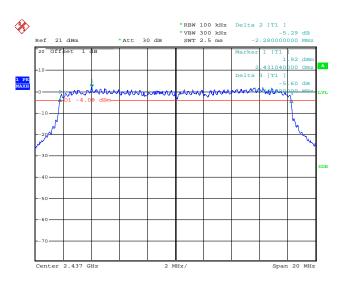




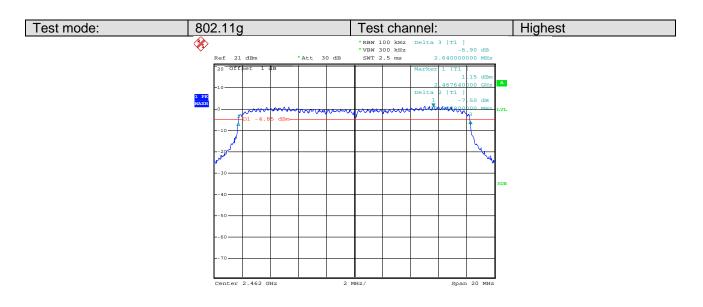
Date: 12.OCT.2011 03:38:43







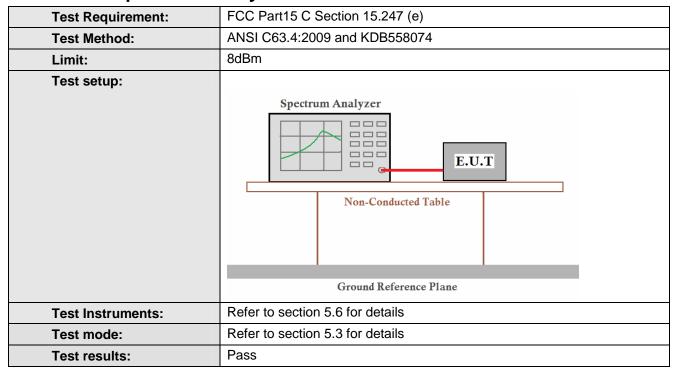
Date: 12.0CT.2011 03:46:02



Date: 12.OCT.2011 03:58:38



6.5 Power Spectral Density



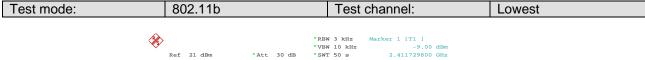
Measurement Data

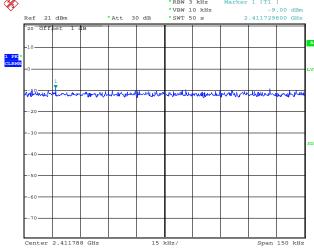
Measurement Data									
802.11b mode									
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result						
Lowest	-9.00	8.00	Pass						
Middle	-8.80	8.00	Pass						
Highest	-9.11	8.00	Pass						
	802.11g mode								
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result						
Lowest	-12.00	8.00	Pass						
Middle	-9.97	8.00	Pass						
Highest	-12.49	8.00	Pass						

Test plot as follows:

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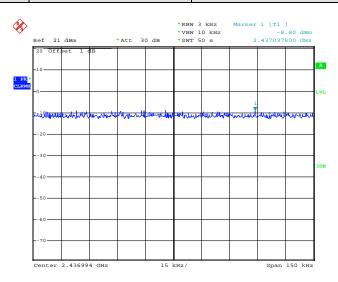






Date: 12.OCT.2011 03:04:12

Test mode: 802.11b Test channel: Middle



Date: 12.OCT.2011 03:12:52

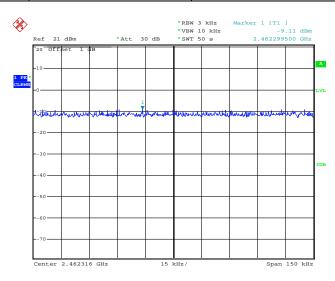
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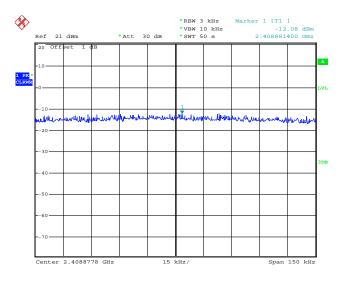






Date: 12.OCT.2011 03:23:22

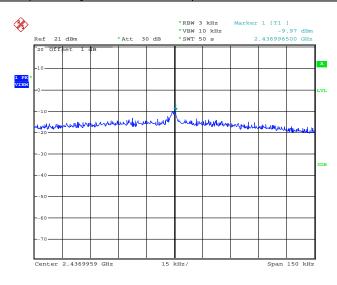
Test mode: 802.11g Test channel: Lowest



Date: 12.0CT.2011 03:43:37

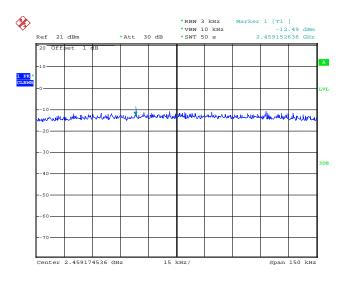






Date: 12.OCT.2011 03:54:08

Test mode: 802.11g Test channel: Highest



Date: 12.OCT.2011 04:04:48



6.6 Band Edge

6.6.1 Conducted Emission Method

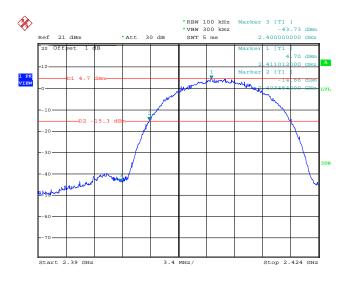
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.4:2009 and KDB558074					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.6 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

Test plot as follows:

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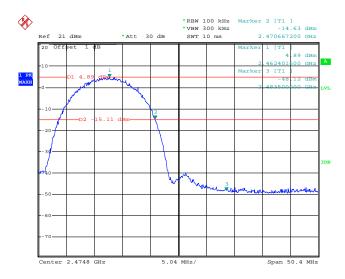






Date: 12.OCT.2011 03:00:40

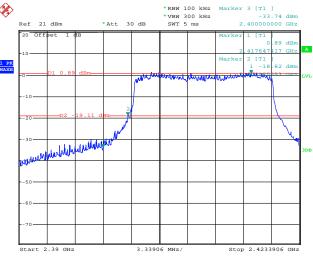
Test mode: 802.11b Test channel: Highest



Date: 12.0CT.2011 03:19:06

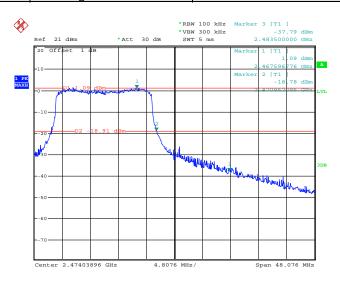






Date: 12.0CT.2011 03:41:36

Test mode: 802.11g Test channel: Highest



Date: 12.0CT.2011 04:02:30

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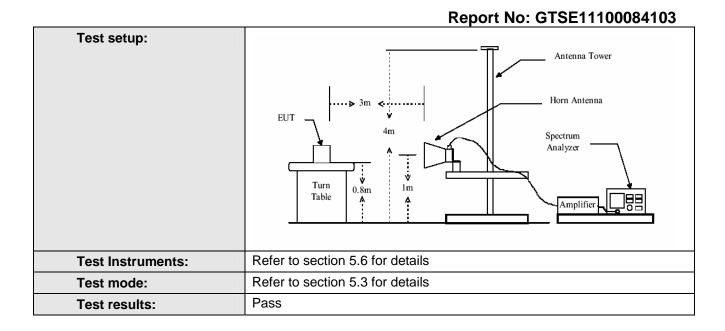


6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.4: 20	09							
Test Frequency Range:	2.3GHz to 2.5G	Hz							
Test site:	Measurement D	istance: 3m (Semi-Anecho	ic Chambe	r)				
Receiver setup:									
	Frequency Detector RBW VBW Re								
	Above 1GHz Peak		1MHz	3MHz	Peak Value				
	Above 1G112	Average	1MHz	10Hz	Average Value				
Limit:									
	Frequency Limit (dBuV/m @3m) Re								
	Above 1GHz 54.0 Average \								
	74.0 Peak Value								
Test Procedure:	the ground a rotated 360 radiation. b. The EUT was antenna, whatower. c. The antenna ground to do horizontal a the measured. For each sucase and the meters and degrees to fe. The test-red Specified Base of the EUT have 10dB in the second se	at a 3 meter sidegrees to de degrees to de degrees to de des set 3 meter sides as set 3 meter de degrees de de	emi-anechoice termine the parts away from an	camber. Toosition of the interferon of a variation of the field was arranto heights for different of the mode was estopped a se the emissione by one	he highest ence-receiving able-height antenna ur meters above the eld strength. Both a are set to make ged to its worst rom 1 meter to 4 egrees to 360				

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Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. 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 data:

Test mode:	802.1	1b	Test channel: Lowest F		Remark:	k			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Facto		Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2390.00	51.76	27.59	3.33	30.	.10	52.58	74.00	-21.42	Vertical
2400.00	55.92	27.58	3.37	30.	.10	56.77	74.00	-17.23	Vertical
2390.00	53.11	27.59	3.33	30.	.10	53.93	74.00	-20.07	Horizontal
2400.00	56.98	27.58	3.37	30.	.10	57.83	74.00	-16.17	Horizontal

Test mode:	802.1	1b	Test chann	el:	Lowest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)		amp or (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Li	ver mit dB)	polarization
2390.00	35.40	27.59	3.33	30	.10	36.22	54.00	-17	7.78	Vertical
2400.00	38.91	27.58	3.37	30	.10	39.76	54.00	-14	4.24	Vertical
2390.00	36.75	27.59	3.33	30	.10	37.57	54.00	-16	6.43	Horizontal
2400.00	39.97	27.58	3.37	30	.10	40.82	54.00	-13	3.18	Horizontal

Test mode:	802.1	11b	Test chann	nel: Highest		Remark:		Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dE	tor	Level (dBuV/m)	Limit Line (dBuV/m)	L	ver imit dB)	polarization
2483.50	56.20	27.53	3.49	29.	93	57.29	74.00	-10	6.71	Vertical
2500.00	52.30	27.55	3.52	30.	70	52.67	74.00	-2	1.33	Vertical
2483.50	57.36	27.53	3.49	29.	93	58.45	74.00	-1	5.55	Horizontal
2500.00	53.70	27.55	3.52	30.	70	54.07	74.00	-19	9.93	Horizontal

Test mode:	802.1	1b	Test chann	annel: Highest I		Remark: Avera		verage	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)		amp or (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	
2483.50	39.13	27.53	3.49	29	.93	40.22	54.00	-13.78	3 Vertical
2500.00	34.63	27.55	3.52	30	.70	35.00	54.00	-19.00) Vertical
2483.50	40.62	27.53	3.49	29	.93	41.71	54.00	-12.29	9 Horizontal
2500.00	35.85	27.55	3.52	30	.70	36.22	54.00	-17.78	B Horizontal

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Test mode:	802.1	1g	Test chann	annel: Lowest		Remark: P		Peal	K	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)		amp or (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Li	ver imit dB)	polarization
2390.00	50.21	27.59	3.33	30	.10	51.03	74.00	-2	2.97	Vertical
2400.00	54.30	27.58	3.37	30	.10	55.15	74.00	-18	8.85	Vertical
2390.00	51.75	27.59	3.33	30	.10	52.57	74.00	-2	1.43	Horizontal
2400.00	55.58	27.58	3.37	30	.10	56.43	74.00	-1 ⁻	7.57	Horizontal

Test mode:	802.1	1g	Test chann	hannel: Lowest R		Remark: Avei		Aver	age	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)		amp or (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Ov Lin (dE	nit	polarization
2390.00	35.47	27.59	3.33	30	.10	36.29	54.00	-17.	.71	Vertical
2400.00	39.39	27.58	3.37	30	.10	40.24	54.00	-13.	.76	Vertical
2390.00	37.45	27.59	3.33	30	.10	38.27	54.00	-15.	.73	Horizontal
2400.00	41.20	27.58	3.37	30	.10	42.05	54.00	-11.	.95	Horizontal

Test mode:	802.1	1g	Test chann	el: Highe	est	Remark: Pe		K
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2483.5	54.99	27.55	3.49	30.7	55.33	74	-18.67	Vertical
2500	51.04	27.53	3.52	29.93	52.16	74	-21.84	Vertical
2483.5	56.25	27.55	3.49	30.7	56.59	74	-17.41	Horizontal
2500	52.64	27.53	3.52	29.93	53.76	74	-20.24	Horizontal

Test mode:	802.1	1g	Test channel: Highest		Remark: Av		Aver	/erage		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)		amp or (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	L	ver imit dB)	polarization
2483.50	40.58	27.53	3.49	29	.93	41.67	54.00	-1:	2.33	Vertical
2500.00	36.32	27.55	3.52	30	.70	36.69	54.00	-1	7.31	Vertical
2483.50	40.89	27.53	3.49	29	.93	41.98	54.00	-1:	2.02	Horizontal
2500.00	36.46	27.55	3.52	30	.70	36.83	54.00	-1	7.17	Horizontal

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6.7 Spurious Emission

6.7.1 Conducted Emission Method

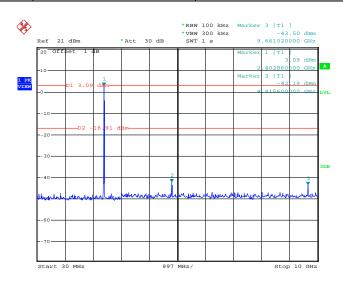
Test Requirement:	FCC Part15 C Section 15.247 (d)							
Test Method:	ANSI C63.4:2009 and KDB558074							
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.							
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
Test Instruments:	Refer to section 5.6 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Pass							

Test plot as follows:

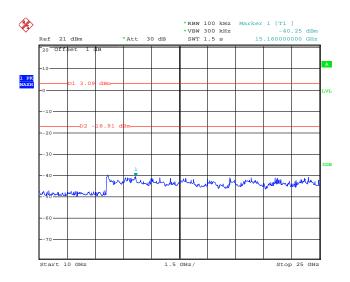
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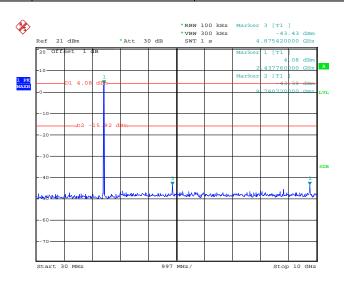
Date: 12.OCT.2011 03:01:38



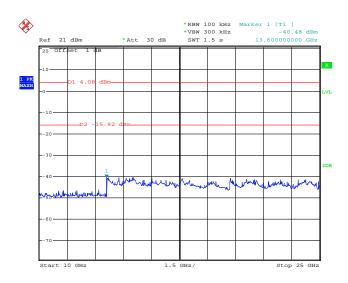
Date: 12.0CT.2011 03:01:56



Test mode: 802.11b Test ch	annel: Middle
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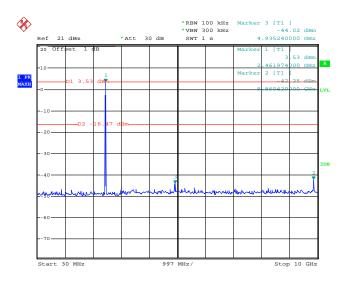
Date: 12.OCT.2011 03:10:32



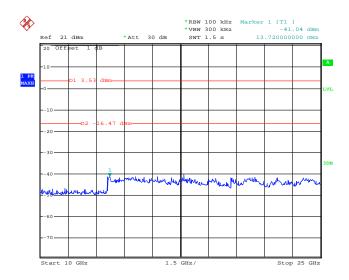
Date: 12.0CT.2011 03:10:49



Test mode: 802.11b Test channel: Highest



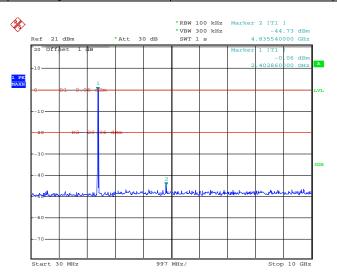
Date: 12.OCT.2011 03:17:33



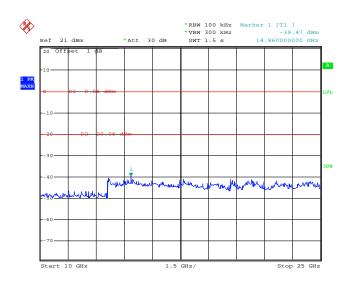
Date: 12.OCT.2011 03:17:47







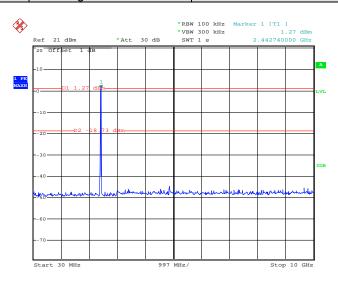
Date: 12.OCT.2011 03:39:39



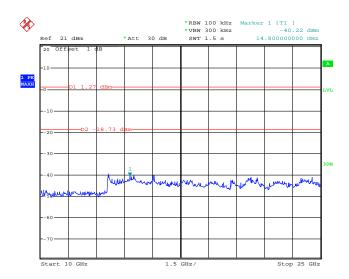
Date: 12.0CT.2011 03:39:53



Test mode: 802.11g Test channel: Middle



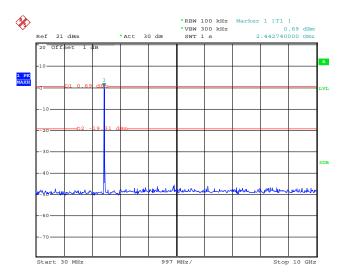
Date: 12.OCT.2011 03:48:05



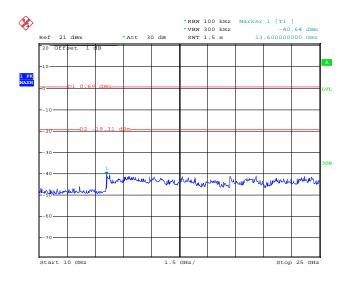
Date: 12.OCT.2011 03:48:17



Test mode:	802.11g	Test channel:	Highest



Date: 12.OCT.2011 03:59:41



Date: 12.0CT.2011 03:59:59



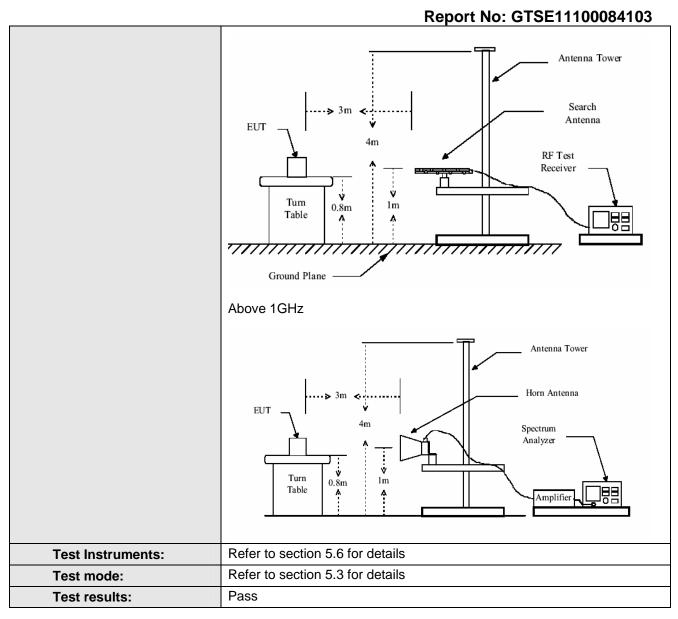
6.7.2 Radiated Emission Method

Test Requirement:	CC Part15 C S	Section 15.209	and 15.205								
Test Method:	FCC Part15 C Section 15.209 and 15.205 ANSI C63.4:2009										
Test Frequency Range: 3	30MHz to 25GHz										
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)										
Receiver setup:											
	Frequency Detector RBW VBW Remark 30MHz- Quasi-peak 100KHz 300KHz Quasi-peak										
		Quasi-peak	100KHz	300KHz	Quasi-peak Value						
	Above 1GHz Peak 1MHz 3MHz Pea										
	Above IGI12	Average	10Hz	Average Value							
Limit:											
	Frequency Limit (dBuV/m @3m) Remark										
	30MHz-8	8MHz	40.0)	Quasi-peak Value						
	88MHz-216MHz 43.5 Quasi-peak Value										
	216MHz-960MHz 46.0 Quasi-peak Value										
	960MHz-1GHz 54.0 Quasi-peak Value										
	Above 1GHz 54.0 Average Value										
	7,5000	OFFE	74.0)	Peak Value						
Test Procedure: 9 h i.	the ground a rotated 360 radiation. The EUT was antenna, what tower. The antenna ground to do horizontal a the measure For each su case and the meters and degrees to form the test-red Specified Ball the emissis the limit specified Ball the EUT whave 10dB in the second seco	at a 3 meter set degrees to de degrees to de degrees to de de degrees to de degrees to de degrees to de degrees to degrees de degree	emi-anechoice termine the properties away from the defect on the total ed from one aximum valuatizations of the color was turned to the was turned to the color of the color o	the interference of a varial meter to foue of the fiethe antennation heights field Mode. The mode was a set he emissione by one	ence-receiving ble-height antenna ur meters above the ld strength. Both a are set to make ged to its worst rom 1 meter to 4 egrees to 360						
Test setup:	elow 1GHz										

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Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. 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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Below 1GHz

Test in WIFI mode.

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
33.85	47.02	14.37	0.60	32.27	29.72	40.00	-10.28	Vertical
55.13	42.81	15.84	0.68	31.99	27.34	40.00	-12.66	Vertical
132.40	44.25	10.30	1.34	31.83	24.06	43.50	-19.44	Vertical
323.28	41.45	12.71	2.10	32.30	23.96	46.00	-22.04	Vertical
379.03	42.99	14.20	2.26	32.32	27.13	46.00	-18.87	Vertical
664.75	39.15	19.98	2.89	31.64	30.38	46.00	-15.62	Vertical
32.64	36.53	15.88	0.60	32.27	20.74	40.00	-19.26	Horizontal
65.43	41.04	10.66	0.76	31.93	20.53	40.00	-19.47	Horizontal
132.40	43.89	10.52	1.34	31.83	23.92	43.50	-19.58	Horizontal
215.02	43.34	10.82	1.83	32.27	23.72	43.50	-19.78	Horizontal
312.48	48.99	13.09	2.08	32.30	31.86	46.00	-14.14	Horizontal
465.91	44.56	19.45	2.34	31.92	34.43	46.00	-11.57	Horizontal

Above 1GHz

Test mode	: 8	302.11b	Test chan	nel:	Lowest	Remark:		Peak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dl		Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	42.51	31.79	5.34	24.07	55.57	74.00	-18.43	Vertical
7236.00	33.69	36.19	6.88	26.44	50.32	74.00	-23.68	Vertical
9648.00	32.21	38.07	8.96	25.36	53.88	74.00	-20.12	Vertical
12060.00	31.02	39.05	10.35	25.15	55.27	74.00	-18.73	Vertical
14472.00						74.00		Vertical
16884.00						74.00		Vertical
4824.00	44.02	31.79	5.34	24.07	57.08	74.00	-16.92	Horizontal
7236.00	35.11	36.19	6.88	26.44	51.74	74.00	-22.26	Horizontal
9648.00	33.55	38.07	8.96	25.36	55.22	74.00	-18.78	Horizontal
12060.00	32.13	39.05	10.35	25.15	56.38	74.00	-17.62	Horizontal
14472.00						74.00		Horizontal
16884.00						74.00		Horizontal

Test mode	:	80	02.11b	Test chan	nel:	L	owest	Rei	mark:			Average
Frequency (MHz)	Le	ead evel BuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)				nit	polarization		
4824.00	24	1.28	31.79	5.34	24	.07	37.34	54.0	00	-16.	.66	Vertical
7236.00	19	9.28	36.19	6.88	26	.44	35.91	54.0	00	-18.	.09	Vertical
9648.00	17	7.38	38.07	8.96	25	.36	39.05	54.0	00	-14.	.95	Vertical
12060.00	16	5.18	39.05	10.35	25	.15	40.43	54.0	00	-13.	.57	Vertical
14472.00								54.0	00			Vertical
16884.00								54.0	00			Vertical
4824.00	26	5.02	31.79	5.34	24	.07	39.08	54.0	00	-14.	.92	Horizontal
7236.00	20	0.81	36.19	6.88	26	.44	37.44	54.0	00	-16.	.56	Horizontal
9648.00	18	3.69	38.07	8.96	25	.36	40.36	54.0	00	-13.	.64	Horizontal
12060.00	17	7.42	39.05	10.35	25	.15	41.67	54.0	00	-12.	.33	Horizontal
14472.00								54.0	00	•		Horizontal
16884.00								54.0	00			Horizontal

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GTS

Report No: GTSE11100084103

Test mode	: 8	02.11b	Test chan	nel:	Middle	Remark:		Peak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (di		Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	42.80	31.85	5.40	24.01	56.04	74.00	-17.96	Vertical
7311.00	31.38	36.37	6.90	26.58	48.07	74.00	-25.93	Vertical
9688.00	30.74	38.13	8.98	25.34	52.51	74.00	-21.49	Vertical
12185.00	28.94	38.92	10.38	25.04	53.20	74.00	-20.80	Vertical
14682.00						74.00		Vertical
17179.00						74.00		Vertical
4874.00	44.81	31.85	5.40	24.01	58.05	74.00	-15.95	Horizontal
7311.00	33.34	36.37	6.90	26.58	50.03	74.00	-23.97	Horizontal
9688.00	32.66	38.13	8.98	25.34	54.43	74.00	-19.57	Horizontal
12185.00	30.67	38.92	10.38	25.04	54.93	74.00	-19.07	Horizontal
14682.00	42.80					74.00		Horizontal
17179.00	31.38					74.00		Horizontal

Test mode	:	80	02.11b	Test chan	nel:		Middle	Re	mark:			Average
Frequency (MHz)	L	lead evel BuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit (dBu\		Ove Limi (dB)	it	polarization
4874.00	2	5.70	31.85	5.40	24.	01	38.94	54.0	00	-15.0)6	Vertical
7311.00	1	8.99	36.37	6.90	26.	58	35.68	54.0	00	-18.3	32	Vertical
9688.00	1	5.37	38.13	8.98	25.	34	37.14	54.0	00	-16.8	36	Vertical
12185.00	1	6.55	38.92	10.38	25.	04	40.81	54.0	00	-13.1	9	Vertical
14682.00								54.0	00			Vertical
17179.00								54.0	00			Vertical
4874.00	2	7.87	31.85	5.40	24.	01	41.11	54.0	00	-12.8	39	Horizontal
7311.00	2	0.94	36.37	6.90	26.	58	37.63	54.0	00	-16.3	37	Horizontal
9688.00	1	7.09	38.13	8.98	25.	34	38.86	54.0	00	-15.1	4	Horizontal
12185.00	1	8.19	38.92	10.38	25.	04	42.45	54.0	00	-11.5	55	Horizontal
14682.00								54.0	00			Horizontal
17179.00								54.0	00			Horizontal

Test mode	: 8	02.11b	Test chan	nel:	H	lighest	Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4924.00	40.61	31.89	5.46	23.96	6	54.00	74.00	-20.00	Vertical	
7386.00	32.93	36.49	6.93	26.79)	49.56	74.00	-24.44	Vertical	
9848.00	29.95	38.24	9.05	25.30)	51.94	74.00	-22.06	Vertical	
12310.00	28.66	38.83	10.41	24.90)	53.00	74.00	-21.00	Vertical	
14772.00							74.00		Vertical	
17234.00							74.00		Vertical	
4924.00	42.52	31.89	5.46	23.96	6	55.91	74.00	-18.09	Horizontal	
7386.00	34.81	36.49	6.93	26.79)	51.44	74.00	-22.56	Horizontal	
9848.00	31.81	38.24	9.05	25.30)	53.80	74.00	-20.20	Horizontal	
12310.00	30.35	38.83	10.41	24.90)	54.69	74.00	-19.31	Horizontal	
14772.00						•	74.00		Horizontal	
17234.00							74.00		Horizontal	

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Report No: GTSE11100084103

Test mode	: 8	302.11b	Test chan	nel:	Highest	Remark:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	24.47	31.89	5.46	23.96	37.86	54.00	-16.14	Vertical
7386.00	19.53	36.49	6.93	26.79	36.16	54.00	-17.84	Vertical
9848.00	20.85	38.24	9.05	25.30	42.84	54.00	-11.16	Vertical
12310.00	17.45	38.83	10.41	24.90	41.79	54.00	-12.21	Vertical
14772.00						54.00		Vertical
17234.00						54.00		Vertical
4924.00	26.56	31.89	5.46	23.96	39.95	54.00	-14.05	Horizontal
7386.00	21.39	36.49	6.93	26.79	38.02	54.00	-15.98	Horizontal
9848.00	22.47	38.24	9.05	25.30	44.46	54.00	-9.54	Horizontal
12310.00	18.98	38.83	10.41	24.90	43.32	54.00	-10.68	Horizontal
14772.00						54.00		Horizontal
17234.00						54.00		Horizontal

Test mode	:	80	02.11g	Test chan	nel:	L	_owest	Re	mark:			Peak
Frequency (MHz)	L	lead evel BuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit (dBu		Ove Lim (dB	nit	polarization
4824.00	3	8.57	31.79	5.34	24.	07	51.63	74.	00	-22.3	37	Vertical
7236.00	3	4.34	36.19	6.88	26.	44	50.97	74.	00	-23.0	03	Vertical
9648.00	3	0.93	38.07	8.96	25.	36	52.60	74.	00	-21.4	40	Vertical
12060.00	2	9.81	39.05	10.35	25.	15	54.06	74.	00	-19.9	94	Vertical
14472.00								74.	00			Vertical
16884.00								74.	00			Vertical
4824.00	3	8.85	31.79	5.34	24.	07	51.91	74.	00	-22.0	09	Horizontal
7236.00	3	3.63	36.19	6.88	26.	44	50.26	74.	00	-23.7	74	Horizontal
9648.00	3	2.03	38.07	8.96	25.	36	53.70	74.	00	-20.3	30	Horizontal
12060.00	3	0.57	39.05	10.35	25.	15	54.82	74.	00	-19.1	18	Horizontal
14472.00								74.	00			Horizontal
16884.00								74.	00			Horizontal

Test mode	:	80	02.11g	Test chan	nel:		owest	Re	mark:		Average	
Frequency (MHz)	L	Read .evel BuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit (dBu)	-	Liı	ver mit IB)	polarization
4824.00	2	5.79	31.79	5.34	24	.07	38.85	54.	00	-15	5.15	Vertical
7236.00	2	2.17	36.19	6.88	26	5.44	38.80	54.	00	-15	5.20	Vertical
9648.00	1	7.91	38.07	8.96	25	5.36	39.58	54.	00	-14	1.42	Vertical
12060.00	1	6.86	39.05	10.35	25	5.15	41.11	54.	00	-12	2.89	Vertical
14472.00								54.	00			Vertical
16884.00								54.	00			Vertical
4824.00	2	7.53	31.79	5.34	24	.07	40.59	54.	00	-13	3.41	Horizontal
7236.00	2	3.70	36.19	6.88	26	5.44	40.33	54.	00	-13	3.67	Horizontal
9648.00	1	9.22	38.07	8.96	25	5.36	40.89	54.	00	-13	3.11	Horizontal
12060.00	1	8.10	39.05	10.35	25	5.15	42.35	54.	00	-11	.65	Horizontal
14472.00								54.	00			Horizontal
16884.00								54.	00			Horizontal

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Report No: GTSE11100084103

Test mode	: 80	02.11g	Test chan	nel:	Middle	Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)		Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4874.00	37.48	31.85	5.40	24.0	50.72	74.00	-23.28	Vertical	
7311.00	31.47	36.37	6.90	26.58	48.16	74.00	-25.84	Vertical	
9688.00	27.86	38.13	8.98	25.34	49.63	74.00	-24.37	Vertical	
12185.00	29.09	38.92	10.38	25.04	53.35	74.00	-20.65	Vertical	
14472.00						74.00		Vertical	
16884.00						74.00		Vertical	
4874.00	39.48	31.85	5.40	24.0	52.72	74.00	-21.28	Horizontal	
7311.00	32.73	36.37	6.90	26.58	3 49.42	74.00	-24.58	Horizontal	
9688.00	28.00	38.13	8.98	25.34	49.77	74.00	-24.23	Horizontal	
12185.00	28.96	38.92	10.38	25.04	53.22	74.00	-20.78	Horizontal	
14472.00						74.00		Horizontal	
16884.00						74.00		Horizontal	

Test mode	:	80	02.11g	Test chani	nel:		Middle	Re	mark:			Average
Frequency (MHz)	L	Read evel BuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit (dBu		Ov Lim (dE	nit	polarization
4874.00	2	4.31	31.85	5.40	24.	.01	37.55	54.	00	-16.	.45	Vertical
7311.00	2	1.74	36.37	6.90	26	.58	38.43	54.	00	-15.	.57	Vertical
9688.00	1	7.34	38.13	8.98	25.	.34	39.11	54.	00	-14.	.89	Vertical
12185.00	1	6.32	38.92	10.38	25.	.04	40.58	54.	00	-13.	.42	Vertical
14472.00								54.	00			Vertical
16884.00								54.	00			Vertical
4874.00	2	6.48	31.85	5.40	24	.01	39.72	54.	00	-14.	.28	Horizontal
7311.00	2	3.69	36.37	6.90	26	.58	40.38	54.	00	-13.	.62	Horizontal
9688.00	1	9.06	38.13	8.98	25	.34	40.83	54.	00	-13.	.17	Horizontal
12185.00	1	7.96	38.92	10.38	25.	.04	42.22	54.	00	-11.	.78	Horizontal
14472.00								54.	00			Horizontal
16884.00								54.	00			Horizontal

Test mode	: 80	02.11g	Test chan	nel:	F	lighest	Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4924.00	38.58	31.89	5.46	23.96	6	51.97	74.00	-22.03	Vertical	
7386.00	35.05	36.49	6.93	26.79	9	51.68	74.00	-22.32	Vertical	
9848.00	32.57	38.24	9.05	25.30	0	54.56	74.00	-19.44	Vertical	
12310.00	30.01	38.83	10.41	24.90	0	54.35	74.00	-19.65	Vertical	
14772.00							74.00		Vertical	
17234.00							74.00		Vertical	
4924.00	41.43	31.89	5.46	23.90	6	54.82	74.00	-19.18	Horizontal	
7386.00	35.30	36.49	6.93	26.79	9	51.93	74.00	-22.07	Horizontal	
9848.00	32.47	38.24	9.05	25.30	0	54.46	74.00	-19.54	Horizontal	
12310.00	29.73	38.83	10.41	24.90	0	54.07	74.00	-19.93	Horizontal	
14772.00						•	74.00		Horizontal	
17234.00					Ü		74.00		Horizontal	

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Test mode	: 80	02.11g	Test chan	nel:	H	lighest	Remark:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	23.68	31.89	5.46	23.96	6	37.07	54.00	-16.93	Vertical
7386.00	22.36	36.49	6.93	26.79)	38.99	54.00	-15.01	Vertical
9848.00	19.17	38.24	9.05	25.30)	41.16	54.00	-12.84	Vertical
12310.00	17.84	38.83	10.41	24.90		42.18	54.00	-11.82	Vertical
14772.00							54.00		Vertical
17234.00							54.00		Vertical
4924.00	25.77	31.89	5.46	23.96	3	39.16	54.00	-14.84	Horizontal
7386.00	24.22	36.49	6.93	26.79)	40.85	54.00	-13.15	Horizontal
9848.00	20.79	38.24	9.05	25.30)	42.78	54.00	-11.22	Horizontal
12310.00	19.37	38.83	10.41	24.90		43.71	54.00	-10.29	Horizontal
14772.00						•	54.00		Horizontal
17234.00					•	•	54.00		Horizontal

Remark"---" means that the emission level is too low to be measured

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