



**FCC CFR47 PART 15 SUBPART E
CERTIFICATION**

TEST REPORT

FOR

TABLET PC WITH INTEL WIRELESS MODULE

MODEL NUMBER: LT20

FCC ID: BEJTBLT20A

REPORT NUMBER: 05I3251-2

ISSUE DATE: FEBRUARY 28, 2005

Prepared for

LG ELECTRONICS INC.

**19-1, CHEONGHO-RI, JINWUY-MYUN,
PYUNGTAIK-SHI, KYUNGGI-DO, 451-713 KOREA**

Prepared by

COMPLIANCE ENGINEERING SERVICES, INC.

d.b.a.

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LAB CODE:200065-0

Revision History

<u>Rev.</u>	<u>Revisions</u>	<u>Revised By</u>
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TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS.....	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. CALIBRATION AND UNCERTAINTY.....	5
4.1. MEASURING INSTRUMENT CALIBRATION.....	5
4.2. MEASUREMENT UNCERTAINTY.....	5
5. EQUIPMENT UNDER TEST.....	6
5.1. DESCRIPTION OF EUT	6
5.2. DESCRIPTION OF AVAILABLE ANTENNAS	7
5.3. SOFTWARE AND FIRMWARE	7
5.4. WORST-CASE CONFIGURATION AND MODE.....	7
5.5. EUT MODIFICATIONS.....	7
5.6. DESCRIPTION OF TEST SETUP	8
6. TEST AND MEASUREMENT EQUIPMENT	10
7. LIMITS AND RESULTS	11
7.1. CHANNEL TESTS FOR THE 5150 TO 5350 MHz BAND	11
7.1.1. AVERAGE POWER.....	11
7.2. RADIATED EMISSIONS.....	12
7.2.1. TRANSMITTER RADIATED SPURIOUS EMISSIONS	12
7.2.2. TRANSMITTER ABOVE 1 GHZ FOR 5150 TO 5350 MHz BAND	15
7.2.3. WORST-CASE RADIATED EMISSIONS BELOW 1 GHz UNII BAND	25
7.3. POWERLINE CONDUCTED EMISSIONS	29
8. SETUP PHOTOS.....	33

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS INC.
19-1, CHEONGHO-RI, JINWUY-MYUN,
PYUNGTAIK-SHI, KYUNGGI-DO, 451-713 KOREA

EUT DESCRIPTION: TABLET PC WITH INTEL WIRELESS MODULE

MODEL: LT20

SERIAL NUMBER: 311K1202434

DATE TESTED: FEBRUARY 14 – 28, 2005

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART E	NO NON-COMPLIANCE NOTED

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Note: The 802.11a mode 5.2 GHz UNII is applicable to this report; another band of operation (2.4 GHz and 5.8 GHz) is documented in a separate report.

Approved & Released For CCS By:



THU CHAN
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

Tested By:



HITESH H. SOLANKI
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2 and FCC CFR 47 Part 15.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 561F Monterey Road, Morgan Hill, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz	+/- 3.3 dB
Radiated Emission, 200 to 1000 MHz	+4.5 / -2.9 dB
Radiated Emission, 1000 to 2000 MHz	+4.5 / -2.9 dB
Power Line Conducted Emission	+/- 2.9 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a TABLET PC with a wireless module, an 802.11a/b/g transceiver (model no.: WM3B2915ABG).

The radio module is manufactured by INTEL and has a modular approval from the FCC (FCC ID: PD9WM3B2915ABG).

The conducted power levels were adjusted to match the power levels specified in the approval and hence only radiated tests were performed on the EUT.

The transmitter has a maximum peak conducted output power as follows:

5150 to 5250 MHz Authorized Band			
Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5180 - 5240	802.11a	16.98	49.89
5250 to 5350 MHz Authorized Band			
Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5260 - 5320	802.11a	20.70	117.49

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes two integral antennas for diversity, each with a maximum gain of 2.48dBi in the 5150-5350 GHz range.

5.3. SOFTWARE AND FIRMWARE

The EUT support driver software and hardware installed in the equipment during testing was Callexico II based NICs (config A1.6 QS), Windows XP w/ SP1, Firmware Version: 4.1.4.6

The test utility software used during testing was CRTU-ABG version 3.2.11.0000

5.4. WORST-CASE CONFIGURATION AND MODE

Since the EUT has more than one orientation in which it can be used. The worst-case position was determined by performing bandedge tests on all the orientations (viz., X-plane, Y-plane, Z-plane and Laptop orientation) and was found to be the laptop orientation. Thus all the radiated tests were performed with EUT in laptop orientation.

5.5. EUT MODIFICATIONS

The shield on the wireless radio card was making contact with antenna ports of the card due to which the emissions of the second harmonic of the fundamental frequency was exceeding the maximum strength allowed for the 802.11b mode. Thus an insulating tape was used to prevent the contact and as a result the emissions were found to be under the limits.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
AC ADAPTER	LG	HP-OK065B13	H6040E51	N/A

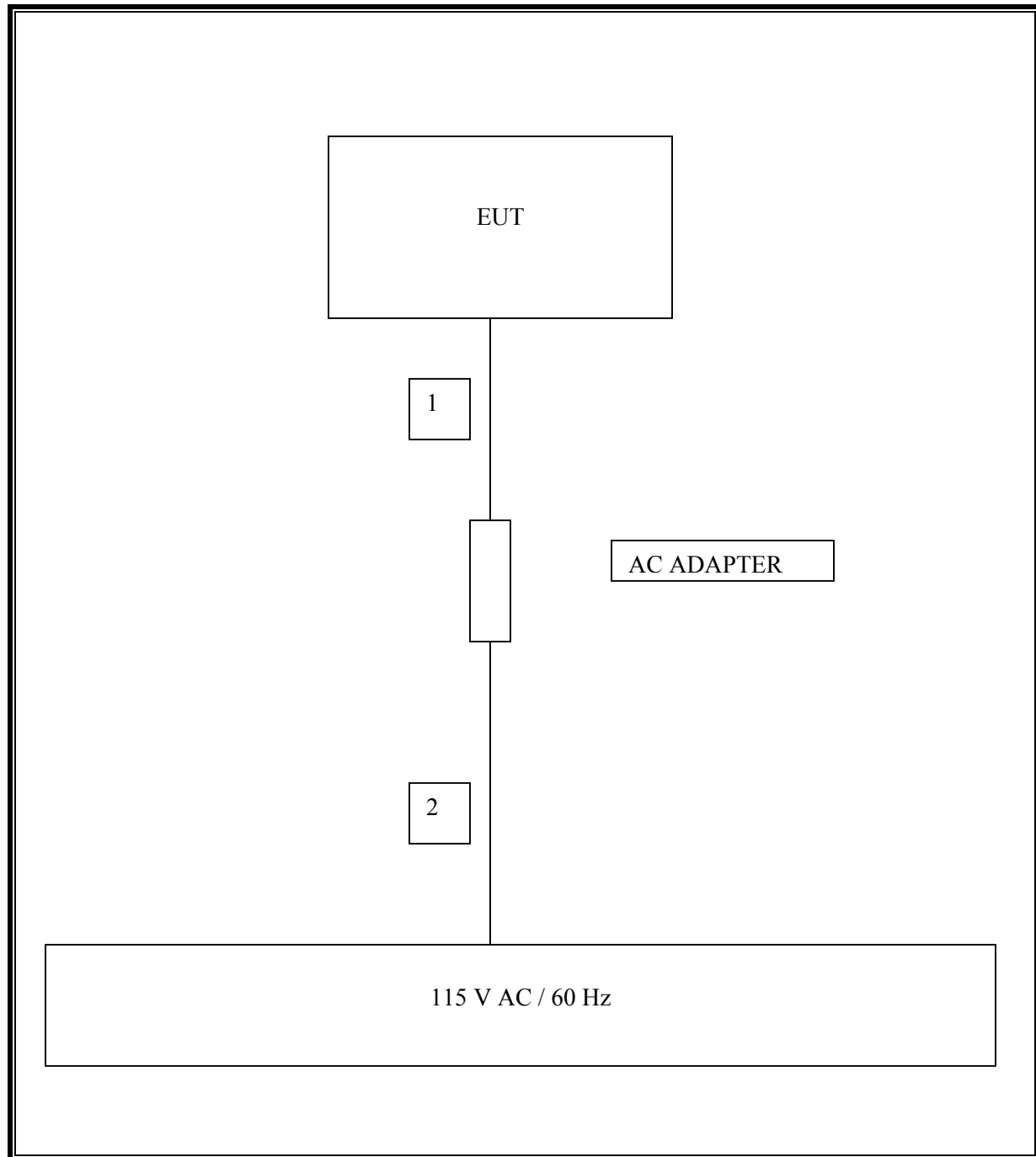
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC	1	DC	Unshielded	1.5m	
2	AC	1	AC	Unshielded	1m	

TEST SETUP

The EUT is a Tablet PC. It has the wireless module installed within which has already obtained a modular approval. Therefore only radiated tests were performed on this EUT.
The EUT was operated using the s/w installed on it CRTU-ABG for continuous transmit/receive on specified channels

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Description	Manufacturer	Model	Serial Number	Cal Due
EMI Test Receiver	R & S	ESHS 20	827129/006	10/22/2005
Site A Line Stabilizer / Conditioner	Tripplite	LC-1800a	A0051681	CNR
LISN, 10 kHz ~ 30 MHz	FCC	LISN-50/250-25-2	2023	8/30/2005
LISN, 10 kHz ~ 30 MHz	Solar	8012-50-R-24-BNC	8379443	10/21/2005
Spectrum Analyzer	HP	E4446A	US42510266	8/25/2005
Antenna, Horn 1 ~ 18 GHz	EMCO	3117	29310	9/12/2005
Preamplifier, 1 ~ 26.5 GHz	HP	8449B	3008A00369	8/17/2005
Temperature / Humidity Chamber	Thermotron	SE 600-10-10	29800	5/13/2005
Peak Power Meter	Agilent	E4416A	GB41291160	2/9/2006
SA Display Section 2	HP	85662A	2816A16696	5/24/2005
Quasi-Peak Adaptor	HP	85650A	2811A01155	5/24/2005
Spectrum Analyzer	HP	8568B		5/25/2005
30MHz---- 2Ghz	Sunol Sciences	JB1 Antenna	A121003	9/22/2005
5.15 - 5.35 Reject Filter	Micro Tronics	BRC13190	2	N/A

7. LIMITS AND RESULTS

7.1. CHANNEL TESTS FOR THE 5150 TO 5350 MHz BAND

7.1.1. AVERAGE POWER

AVERAGE POWER LIMIT

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.
Since power levels from the modular approval were used as a reference, only the average power levels were measured for channel tests under this band.

RESULTS

No non-compliance noted:

The cable assembly insertion loss of 11.45 dB (including 10 dB pad and 1.45 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

802.11a Mode

Channel	Frequency (MHz)	Average Power (dBm)
Low	5180	11.55
Middle1	5240	11.60
Middle2	5260	16.30
High	5320	16.30

7.2. RADIATED EMISSIONS

7.2.1. TRANSMITTER RADIATED SPURIOUS EMISSIONS

LIMITS

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

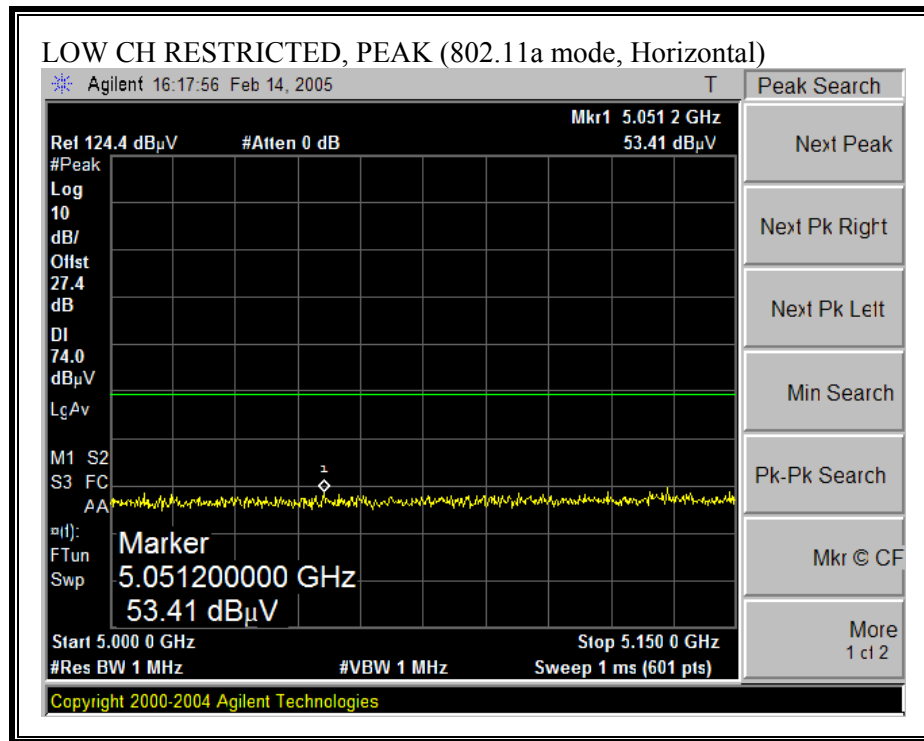
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

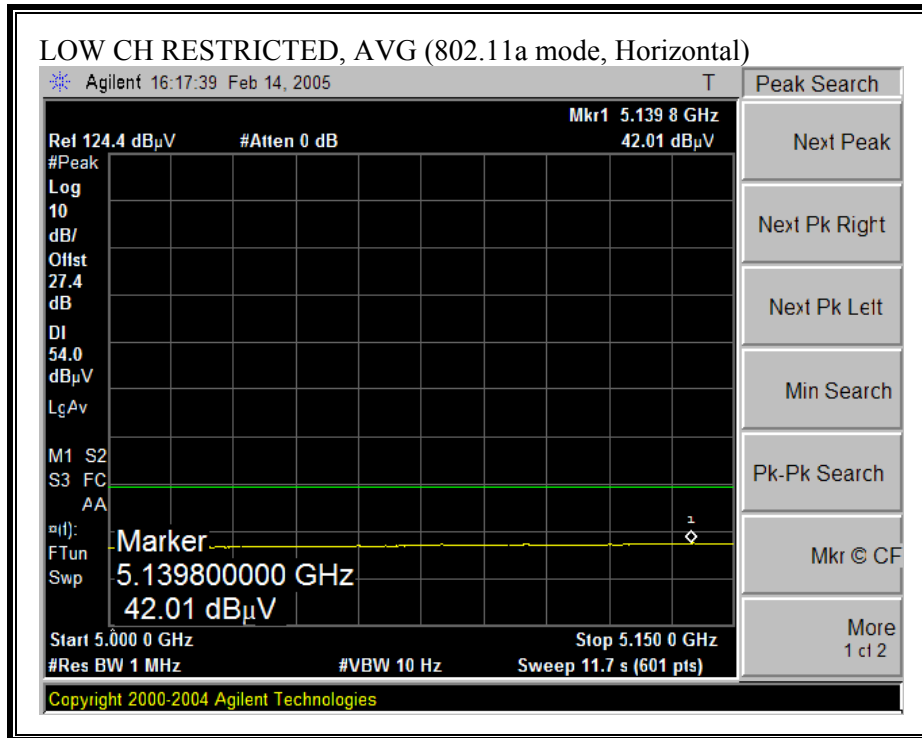
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each 5 GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

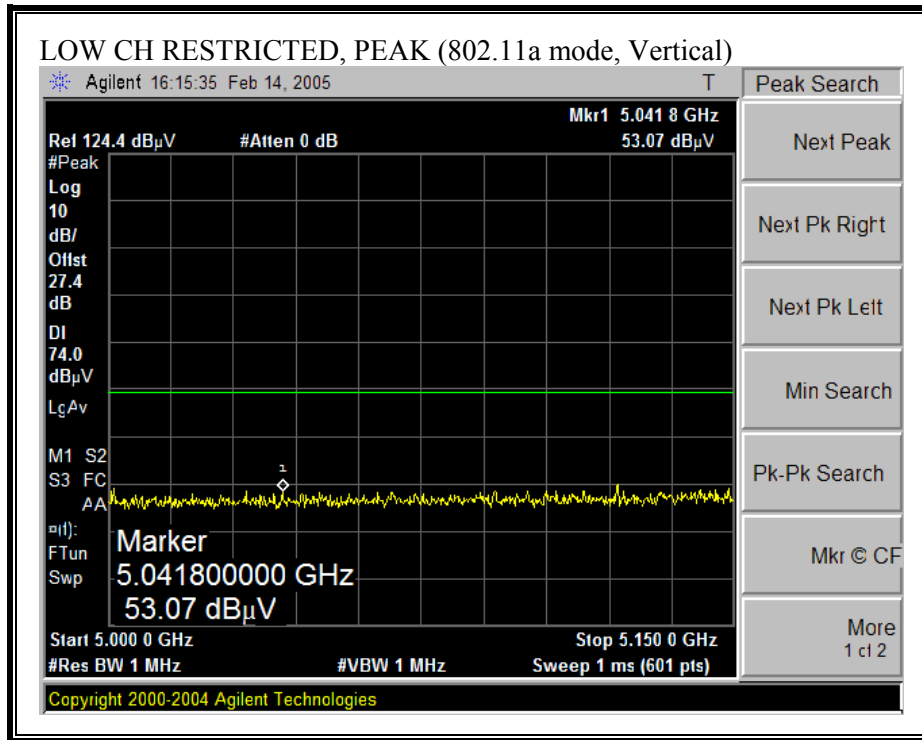
7.2.2. TRANSMITTER ABOVE 1 GHZ FOR 5150 TO 5350 MHz BAND

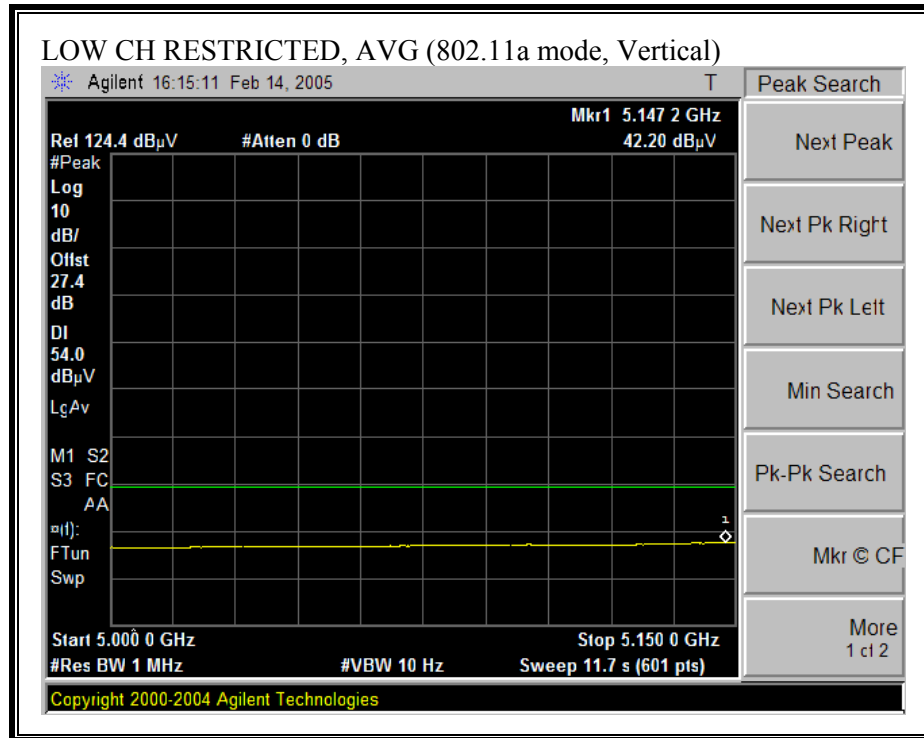
RESTRICTED BANDEDGE (802.11a MODE, LOW CHANNEL, HORIZONTAL)



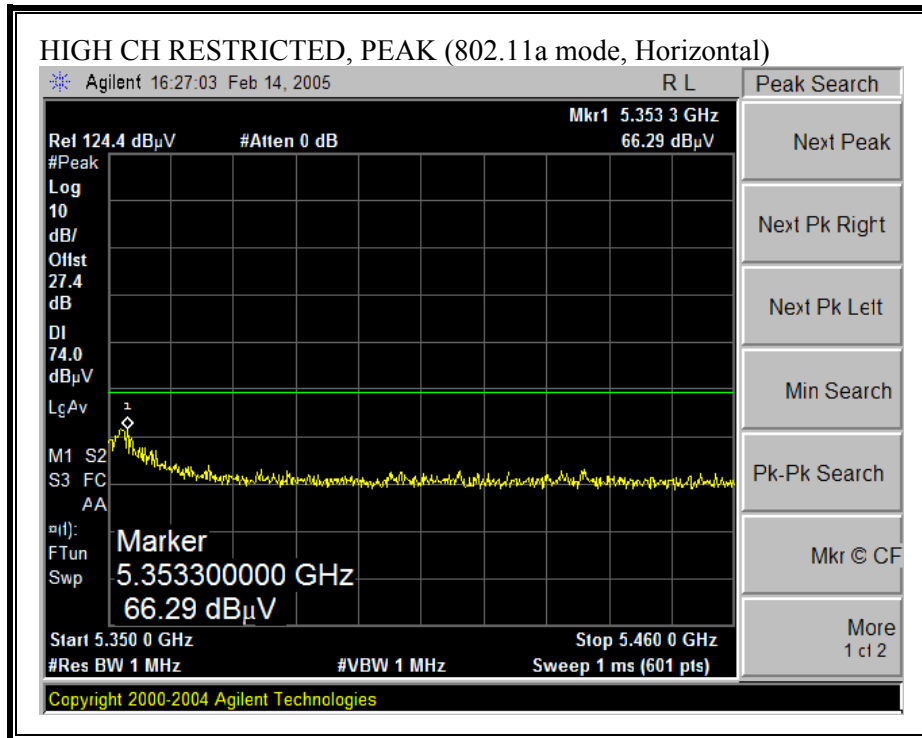


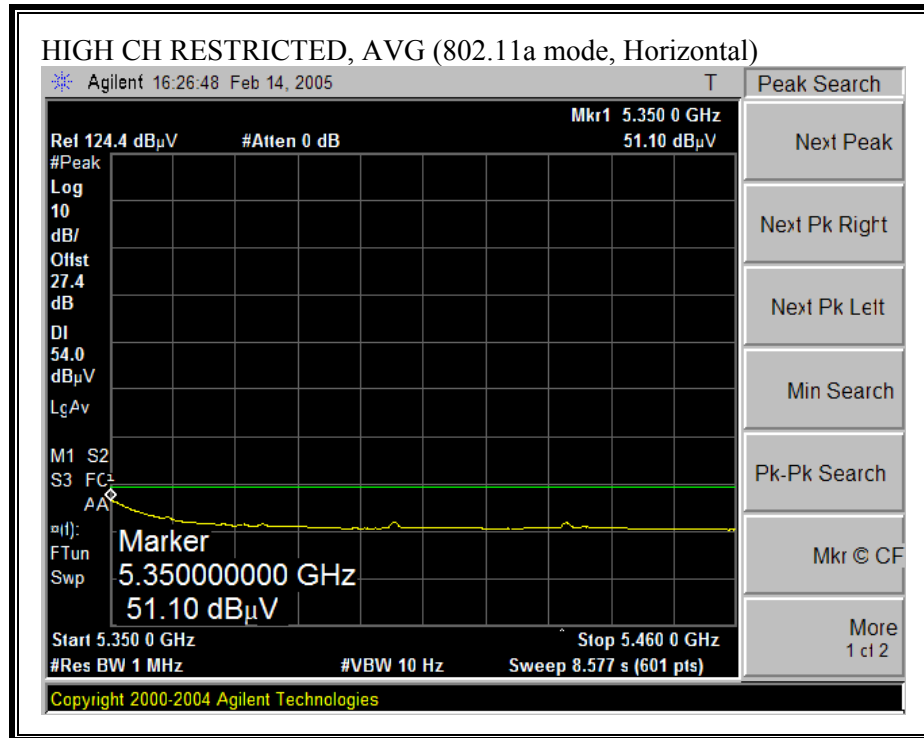
RESTRICTED BANDEDGE (802.11a MODE, LOW CHANNEL, VERTICAL)



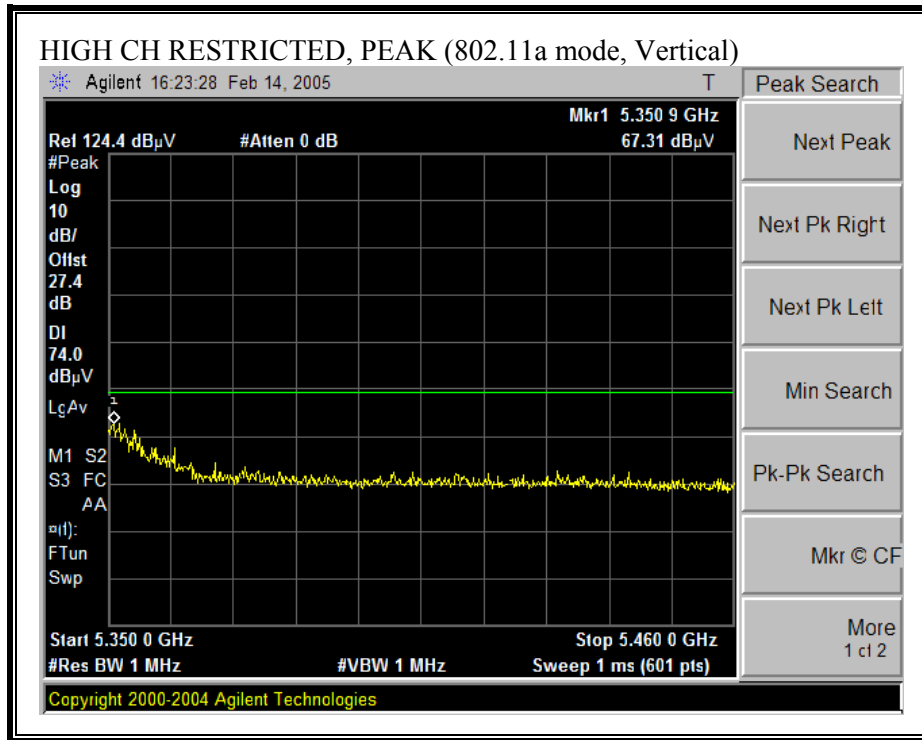


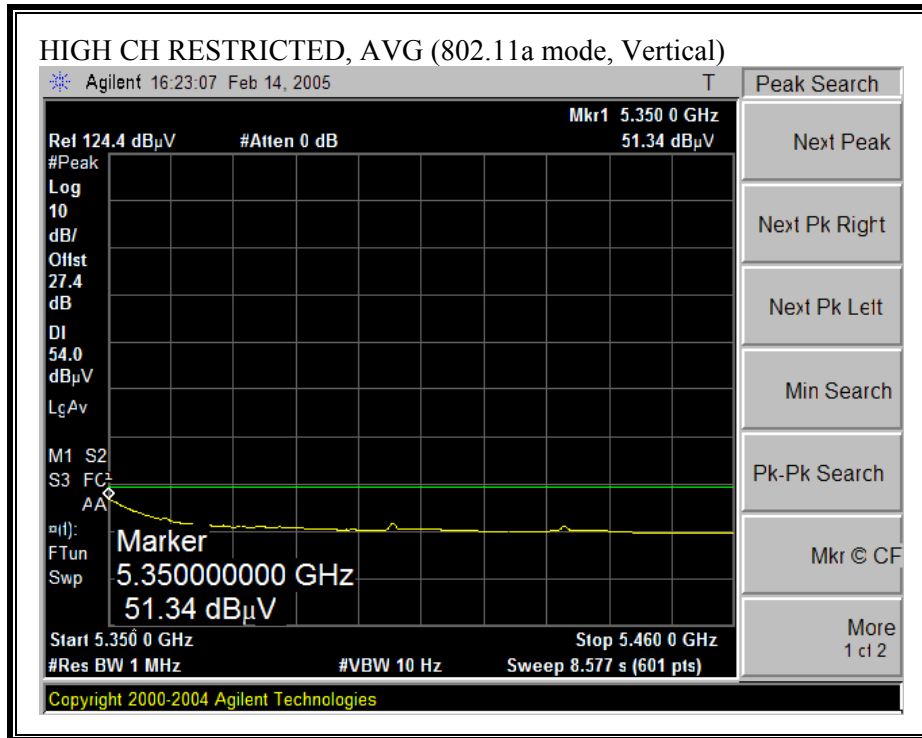
RESTRICTED BANDEDGE (802.11a MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (802.11a MODE, HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS (802.11a MODE)

02/22/05
High Frequency Measurement

Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: HITESH H. SOLANKI
Project #: 0513251
Company: LG ELECTRONICS INC.
EUT Descrip.: TABLET PC with INTEL MINIPCI WIRELESS MODULE
EUT M/N: LT20(with INTEL MiniPCI MODEL : WM3B2915ABG)
Test Target: FCC CLASS B
Mode Oper: TRANSMIT ON SPECIFIED CHANNELS; 802.11 a mode 5.2 GHz BAND

Test Equipment:

EMCO Horn 1-18GHz

Pre-amplifier 1-26GHz

Pre-amplifier 26-40GHz

Horn > 18GHz

T60; S/N: 2238 @3m

T86 Miteq 924341

Hi Frequency Cables

2 foot cable

3 foot cable

4 foot cable

12 foot cable

4_Hitesh

12_Hitesh

HPF

Reject Filter

HPF_4.0GHz

R_002

Peak Measurements
RBW=VBW=1MHz

Average Measurements
RBW=1MHz ; VBW=10Hz

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fldr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
LOW CHANNEL 5180 MHz															
10.360	3.0	49.8	38.2	38.2	7.9	-43.3	0.0	0.9	53.5	41.9	74	54	-20.5	-12.1	V
15.540	3.0	52.0	39.0	39.4	10.9	-45.8	0.0	1.1	57.5	44.5	74	54	-16.5	-9.5	V
20.720	3.0	50.6	36.8	36.4	12.0	-43.1	0.0	0.2	56.1	42.3	74	54	-17.9	-11.7	V
MIDDLE CHANNEL 5260 MHz															
10.520	3.0	52.1	39.6	38.1	8.0	-43.4	0.0	0.9	55.7	43.2	74	54	-18.3	-10.8	V
15.780	3.0	54.1	41.4	38.9	11.1	-45.9	0.0	1.1	59.4	46.7	74	54	-14.6	-7.3	V
21.040	3.0	50.2	37.3	36.4	12.0	-42.7	0.0	0.0	55.8	42.9	74	54	-18.2	-11.1	V
HIGH CHANNEL 5320 MHz															
10.640	3.0	49.5	36.8	38.1	8.0	-43.4	0.0	0.9	53.0	40.3	74	54	-21.0	-13.7	V
15.960	3.0	55.0	42.2	38.6	11.3	-45.9	0.0	1.2	60.2	47.4	74	54	-13.8	-6.6	V
21.280	3.0	49.8	36.0	36.4	12.2	-42.8	0.0	0.0	55.6	41.8	74	54	-18.4	-12.2	V
LOW CHANNEL 5180 MHz															
10.360	3.0	49.7	35.9	38.2	7.9	-43.3	0.0	0.9	53.4	39.6	74	54	-20.6	-14.4	H
15.540	3.0	51.6	38.9	39.4	10.9	-45.8	0.0	1.1	57.1	44.4	74	54	-16.9	-9.6	H
20.720	3.0	49.0	36.8	36.4	12.0	-43.1	0.0	0.2	54.5	42.3	74	54	-19.5	-11.7	H
MIDDLE CHANNEL 5260 MHz															
10.520	3.0	49.1	34.9	38.1	8.0	-43.4	0.0	0.9	52.7	38.5	74	54	-21.3	-15.5	H
15.780	3.0	53.0	39.6	38.9	11.1	-45.9	0.0	1.1	58.3	44.9	74	54	-15.7	-9.1	H
21.040	3.0	50.5	37.3	36.4	12.0	-42.7	0.0	0.0	56.1	42.9	74	54	-17.9	-11.1	H
HIGH CHANNEL 5320 MHz															
10.640	3.0	49.2	36.2	38.1	8.0	-43.4	0.0	0.9	52.7	39.7	74	54	-21.3	-14.3	H
15.960	3.0	47.9	35.2	38.6	11.3	-45.9	0.0	1.2	53.1	40.4	74	54	-20.9	-13.6	H
21.280	3.0	49.9	35.8	36.4	12.2	-42.8	0.0	0.0	55.7	41.6	74	54	-18.3	-12.4	H

f Measurement Frequency
Dist Distance to Antenna
Read Analyzer Reading
AF Antenna Factor
CL Cable Loss
Amp Preamp Gain
D Corr Distance Correct to 3 meters
Avg Average Field Strength @ 3 m
Peak Calculated Peak Field Strength
HPF High Pass Filter
Avg Lim Average Field Strength Limit
Pk Lim Peak Field Strength Limit
Avg Mar Margin vs. Average Limit
Pk Mar Margin vs. Peak Limit

No other Emissions were found up to the 10th harmonic of the fundamental frequency.

[illegible]

7.2.3. WORST-CASE RADIATED EMISSIONS BELOW 1 GHz UNII BAND

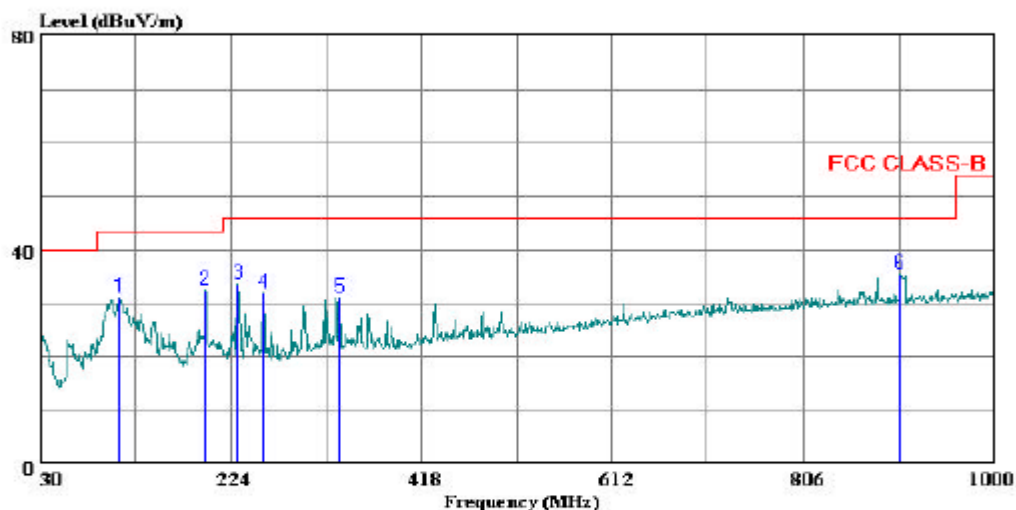
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT



561F Monterey Road
Morgan Hill, CA 95037
Tel: (408) 463-0888
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Data#: 13 File#: 05I3251.EMI Date: 02-14-2005 Time: 19:00:58



(Auxiliary)

Trace: 12

Ref Trace:

Condition: FCC CLASS-B HORIZONTAL
Test Operator: : HITESH H.SOLANKI
Project #: : 05I3251
Company: : LG ELECTRONICS INC.,
EUT: : TABLET w/ INTELL MiniPCI WIRELESS MODULE
Model No: : LT20 (MiniPCI M/N : WM3B2915ABG)
Configuration: : EUT ONLY
Target of Test: : FCC CLASS B
Mode of Operation: TRANSMIT (WORST CASE) 802.11 a 5.2 GHz
: mode

HORIZONTAL DATA

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	110.510	45.20	-14.14	31.06	43.50	-12.44	Peak
2	197.810	45.90	-13.40	32.50	43.50	-11.00	Peak
3	231.760	48.10	-14.49	33.61	46.00	-12.39	Peak
4	256.980	45.30	-13.39	31.91	46.00	-14.09	Peak
5	335.550	42.00	-10.93	31.07	46.00	-14.93	Peak
6	903.000	36.30	-0.99	35.31	46.00	-10.69	Peak

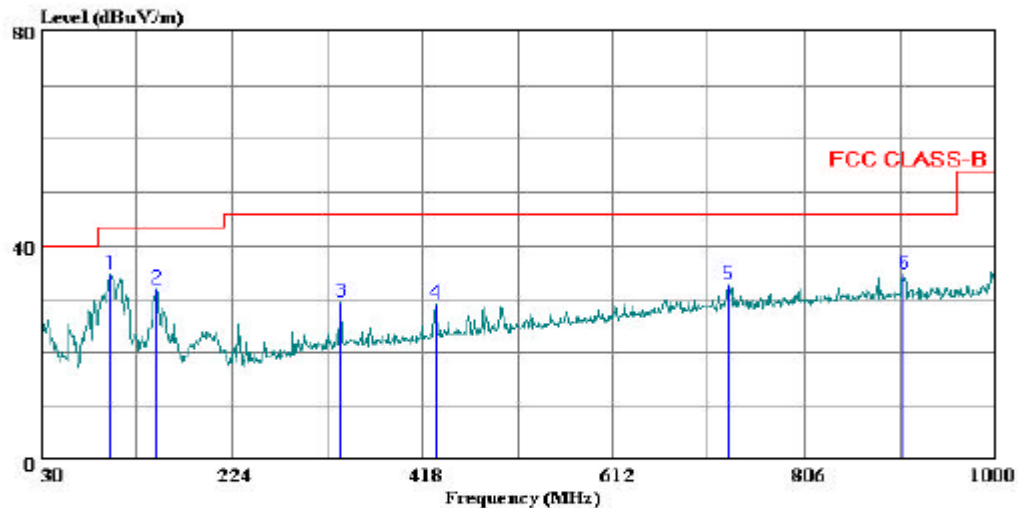
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)

VERTICAL PLOT



561F Monterey Road
Morgan Hill, CA 95037
Tel: (408) 463-0888
Fax: (408) 463-0885

Data#: 11 File#: 05i3251.EMI Date: 02-14-2005 Time: 18:57:08



(Auxiliary)

Trace: 10

Ref Trace:

Condition: FCC CLASS-B VERTICAL
Test Operator: : HITESH H.SOLANKI
Project #: : 05I3251
Company: : LG ELECTRONICS INC.,
EUT: : TABLET w/ INTELL MiniPCI WIRELESS MODULE
Model No: : LT20 (MiniPCI M/N : WM3B2915ABG)
Configuration: : EUT ONLY
Target of Test: : FCC CLASS B
Mode of Operation: TRANSMIT (WORST CASE) 802.11 a 5.2 GHz
mode

VERTICAL DATA

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	100.810	50.70	-16.21	34.49	43.50	-9.01	Peak
2	147.370	45.33	-13.38	31.95	43.50	-11.56	Peak
3	335.550	40.20	-10.93	29.27	46.00	-16.73	Peak
4	431.580	37.80	-8.74	29.06	46.00	-16.94	Peak
5	729.370	35.40	-2.75	32.65	46.00	-13.35	Peak
6	906.880	35.40	-0.90	34.50	46.00	-11.50	Peak

7.3. POWERLINE CONDUCTED EMISSIONS

LIMIT

§15.207 (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator 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, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequency ranges.

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.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The resolution bandwidth is set to 9 kHz for both peak detection and quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Line conducted data is recorded for both NEUTRAL and HOT lines.

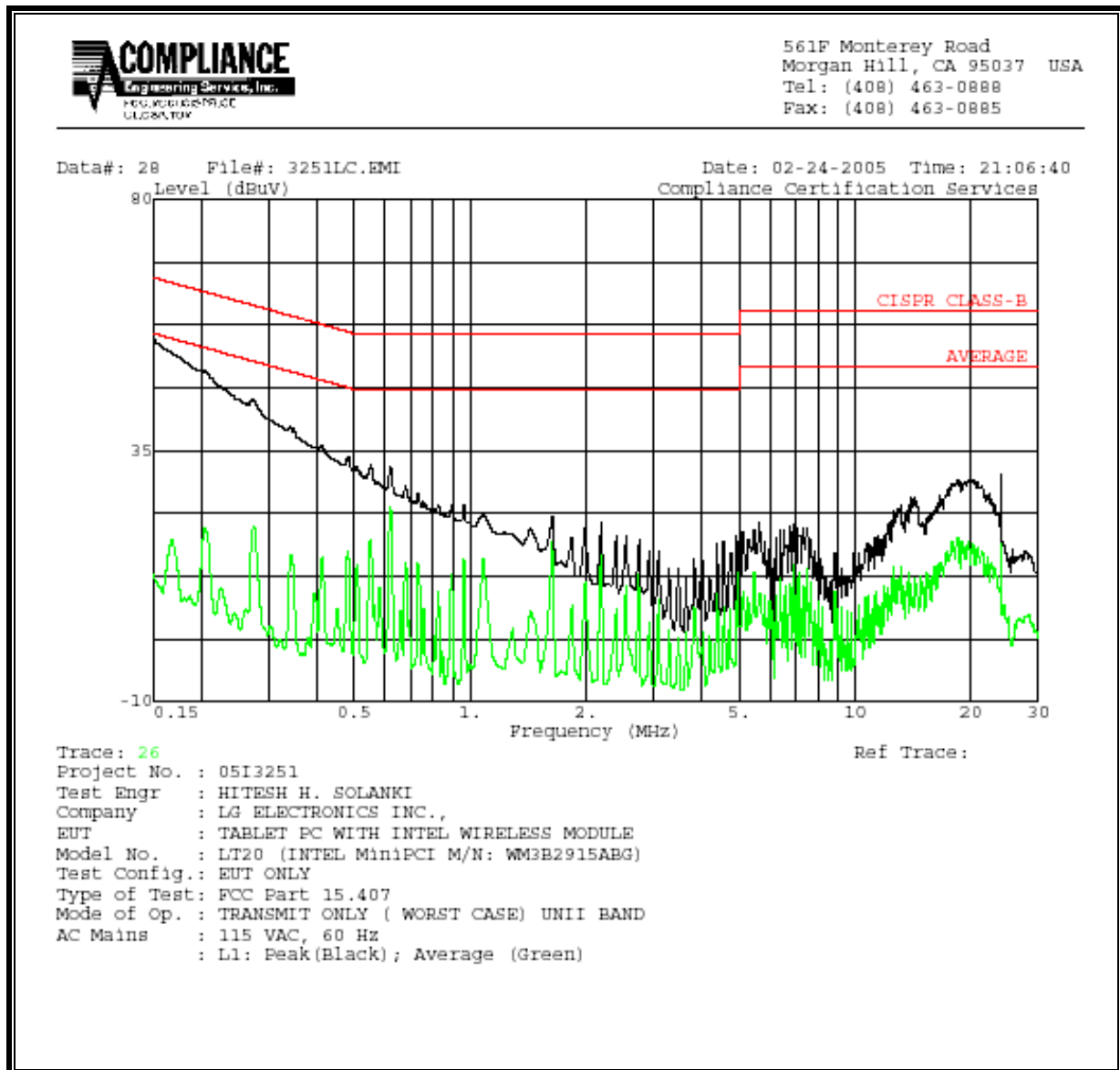
RESULTS

No non-compliance noted:

6 WORST EMISSIONS (5.2 UNII BAND)

CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	FCC B	Margin		Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.15	54.98	--	--	0.00	65.94	55.94	-10.96	-0.96	L1
5.62	22.26	--	--	0.00	60.00	50.00	-37.74	-27.74	L1
19.43	29.54	--	--	0.00	60.00	50.00	-30.46	-20.46	L1
0.15	53.18	--	--	0.00	66.00	56.00	-12.82	-2.82	L2
0.62	31.70	--	--	0.00	56.00	46.00	-24.30	-14.30	L2
24.01	32.04	--	--	0.00	60.00	50.00	-27.96	-17.96	L2
6 Worst Data									

LINE 1 RESULTS



LINE 2 RESULTS

