FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Bluetooth Hands Free Car Kit

Trade Name / Model:
IOGEAR / GBHFK211W6,
BlueDECT / GBHFK211, GBHFK211W1, GBHFK211W2,
GBHFK211W3, GBHFK211W4, GBHFK211W5, GBHFK211W6,
GBHFK211W7, GBHFK211W8, GBHFK211W9, GBHFK211W0,
GBHFK221, GBHFK221W1, GBHFK221W2, GBHFK221W3,
GBHFK221W4, GBHFK221W5, GBHFK221W6, GBHFK221W7,
GBHFK221W8, GBHFK221W9, GBHFK221W0

Issued to

IOGEAR, Inc. 23 Hubble, Irvine, CA 92618

Issued by



Compliance Certification Services Inc.
No. 81-1, Lane 210, Bade Rd. 2, Luchu Hsiang,
Taoyuan Hsien, (338) Taiwan, R.O.C.
http://www.ccsemc.com.tw
service@tw.ccsemc.com



Date of Issue: August 14, 2007

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1. TEST RESULT CERTIFICATION

Applicant:

IOGEAR, Inc.

23 Hubble, Irvine, CA 92618

Equipment Under Test:

Bluetooth Hands Free Car Kit

Trade Name / Model:

IOGEAR / GBHFK211W6,

BlueDECT / GBHFK211, GBHFK211W1,

GBHFK211W2, GBHFK211W3, GBHFK211W4, GBHFK211W5, GBHFK211W6, GBHFK211W7, GBHFK211W8, GBHFK211W9, GBHFK211W0, GBHFK221, GBHFK221W1, GBHFK221W2, GBHFK221W3, GBHFK221W4, GBHFK221W5, GBHFK221W6, GBHFK221W7, GBHFK221W8,

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GBHFK221W9, GBHFK221W0

Date of Test:

July 24 ~ August 3, 2007

APPLICABLE STANDARDS					
STANDARD	TEST RESULT				
FCC 47 CFR Part 15 Subpart C	No non-compliance noted				

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2003 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Reviewed by:

Johnny Liu

Section Manager

Compliance Certification Services Inc.

Amanda Wu

Section Manager

Compliance Certification Services Inc.

2. EUT DESCRIPTION

D J 4	Dheata ath Handa Con Can Wit
Product	Bluetooth Hands Free Car Kit
Trade Name / Model	IOGEAR / GBHFK211W6, BlueDECT / GBHFK211, GBHFK211W1, GBHFK211W2, GBHFK211W3, GBHFK211W4, GBHFK211W5, GBHFK211W6, GBHFK211W7, GBHFK211W8, GBHFK211W9, GBHFK211W0, GBHFK221, GBHFK221W1, GBHFK221W2, GBHFK221W3, GBHFK221W4, GBHFK221W5, GBHFK221W6, GBHFK221W7, GBHFK221W8, GBHFK221W9, GBHFK221W0
Model Discrepancy	All the specification and layout are identical except they come with different model numbers for marketing purposes.
Power Supply	 DC powered from host device via USB cable Powered by AAA batteries × 2 (Rating: DC 3V)
Frequency Range	2402 ~ 2480 MHz
Transmit Power	1.92 dBm
Modulation Technique	FHSS (GFSK)
Transmit Data Rate	1Mbps
Number of Channels	79 Channels
Antenna Specification	-0.21 dBi
Antenna Designation	Multilayer Chip Antenna
USB Cable	Unshielded, 1.51m

Remark:

- 1. The sample selected for test was production product and was provided by manufacturer.
- 2. This submittal(s) (test report) is intended for FCC ID: <u>QLE-GBHFK211W6</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

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3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.247.

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3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.

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3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

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

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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 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	$\binom{2}{2}$
13.36 - 13.41	322 - 335.4		

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

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² Above 38.6

⁽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.

3.5 DESCRIPTION OF TEST MODES

The EUT (model: GBHFK211W6) had been tested under operating condition.

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

Software used to control the EUT for staying in continuous transmitting mode was programmed.

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After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

Channel Low (2402MHz), Mid (2441MHz) and High (2480MHz) with 1Mbps data rate was chosen for full testing.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

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4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

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4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

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Conducted Emissions Test Site							
Name of Equipment Manufacturer Model Serial Number Calibration Due							
Spectrum Analyzer	Agilent	E4446A	MY43360131	01/30/2008			
Power Meter	Agilent	E4416A	GB41291611	03/20/2008			
Power Sensor	Agilent	E9327A	US40441097	06/07/2008			

3M Semi Anechoic Chamber					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	E4446A	US42510252	08/01/2008	
Test Receiver	Rohde&Schwarz	ESCI	100064	11/13/2007	
Switch Controller	TRC	Switch Controller	SC94050010	05/04/2008	
4 Port Switch	TRC	4 Port Switch	SC94050020	05/04/2008	
Horn-Antenna	TRC	HA-0502	06	06/05/2008	
Horn-Antenna	TRC	HA-0801	04	05/04/2008	
Horn-Antenna	TRC	HA-1201A	01	07/09/2008	
Horn-Antenna	TRC	HA-1301A	01	07/17/2008	
Bilog- Antenna	Sunol Sciences	JB3	A030205	03/29/2008	
Turn Table	Max-Full	MFT-120S	T120S940302	N.C.R.	
Antenna Tower	Max-Full	MFA-430	A440940302	N.C.R.	
Controller	Max-Full	MF-CM886	CC-C-1F-13	N.C.R.	
Site NSA	CCS	N/A	FCC: 965860 IC: IC 6106	09/25/2008	
Test S/W	LABVIEW (V 6.1)				

Remark: The measurement uncertainty is less than +/-2.0065dB (30MHz ~ 1GHz), +/-3.0958dB (Above 1GHz) which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

Powerline Conducted Emissions Test Site								
Name of Equipment	Name of Equipment Manufacturer Model Serial Number Calibration Duc							
EMI TEST RECEIVER 9kHz-30MHz	ROHDE & SCHWARZ	ESHS30	828144/003	10/31/2007				
TWO-LINE V-NETWORK 9kHz-30MHz	SCHAFFNER	NNB41	03/10013	06/12/2008				
LISN 10kHz-100MHz	EMCO 3825/2 9106-1809 04/01/2008							
Test S/W	LABVIEW (V 6.1)							

Remark: The measurement uncertainty is less than +/- 2.81dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

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5. FACILITIES AND ACCREDITATIONS 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at
No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C. Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045
No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan Tel: 886-3-324-0332 / Fax: 886-3-324-5235
The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and

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The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	EN 55011, EN 55014-1/2, CISPR 11, CISPR 14-1/2, EN 55022, EN 55015, CISPR 22, CISPR 15, AS/NZS 3548, VCCI V3 (2001), CFR 47, FCC Part 15/18, CNS 13783-1, CNS 13439, CNS 13438, CNS 13803, CNS 14115, EN 55024, IEC 801-2, IEC 801-3, IEC 801-4, IEC/EN 61000-3-2, IEC/EN 61000-3-3, IEC/EN 61000-4-2/3/4/5/6/8/11, EN 50081-1/ EN 61000-6-3, EN 50081-2/EN 61000-6-4, EN 50081-2/EN 61000-6-1: 2001	ACCREDITED No. 0824-01
USA	FCC	3/10 meter Open Area Test Sites (93105, 90471) / 3M Semi Anechoic Chamber (965860) to perform FCC Part 15/18 measurements	93105, 90471 965860
Japan	VCCI	3/10 meter Open Area Test Sites to perform conducted/radiated measurements	VCCI R-393/1066/725/879 C-402/747/912
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, EN 60601-1-2, EN 300 328, EN 300 422-2, EN 301 419-1, EN 301 489-01/03/07/08/09/17, EN 301 419-2/3, EN 300 454-2, EN 301 357-2	ELA 124a ELA 124b ELA 124c
Taiwan	TAF	EN 300 328, EN 300 220-1, EN 300 220-2, EN 300 220-3, 47 CFR FCC Part 15 Subpart C, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 14115, CNS 13438, AS/NZS CISPR 22, CNS 13022-1, IEC 61000-4-2/3/4/5/6/8/11, CNS 13022-2/3	Testing Laboratory 0363
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439, CNS 14115	SL2-IS-E-0014 SL2-IN-E-0014 SL2-A1-E-0014 SL2-R1-E-0014 SL2-R2-E-0014 SL2-L1-E-0014
Canada	Industry Canada	3/10 meter Open Area Test Sites (IC 2324C-3, IC 2324C-5) / 3M Semi Anechoic Chamber (IC 6106)	Canada IC 2324C-3 IC 2324C-5 IC 6106

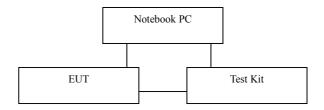
^{*} No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.

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6. SETUP OF EQUIPMENT UNDER TEST6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

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6.2 SUPPORT EQUIPMENT

No	Equipment	Model	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1.	Notebook PC	2672 (X31)	9985H9M	WLAN: ANO20030400LEG Bluetooth: ANO20020100MTN	IBM	LAN Cable: Unshielded, 10m Line Cable: Unshielded, 10m	AC I/P: Unshielded, 1.8m DC O/P: Unshielded, 1.8m with a core
2.	LCD Monitor	L1740PQ	503KGXA2K858	BEJL17NU	1 (÷	Shielded, 1.8m with 2 cores	AC I/P: Unshielded, 1.8m DC O/P: Unshielded, 1.8m with a core
3.	USB Mouse	M-BB48	LZE01360732	FCC DoC	Logitech	Shielded, 1.8m	N/A
4.	Printer	STYLUS C60	DR3K041995	FCC DoC	EPSON	Shielded, 1.8m	Unshielded, 1.8m
5.	Multimedia Earphone	Axis-301	N/A	FCC DoC	Labtec	Unshielded, 1.8m	N/A
6.	Test kit	N/A	N/A	N/A	N/A	N/A	N/A

Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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7. FCC PART 15.247 REQUIREMENTS 7.1 PEAK POWER

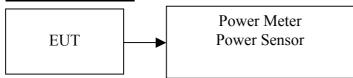
LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

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- According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier
 frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel,
 whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5
 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or
 two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the
 systems operate with an output power no greater than 125 mW.
- 2. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
- 3. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Power Meter. The Power Meter is set to the peak power detection.

TEST RESULTS

No non-compliance noted

Test Data

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2402	1.23	0.0013		PASS
Mid	2441	1.10	0.0010	1	PASS
High	2480	1.92	0.0016		PASS

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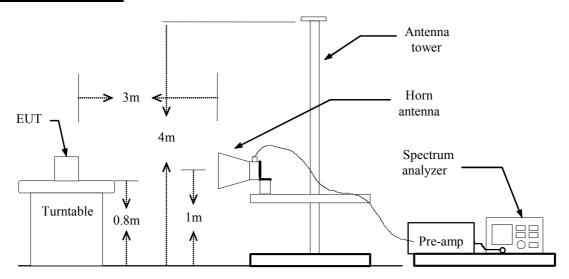
7.2 BAND EDGES MEASUREMENT

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 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, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

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Test Configuration



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

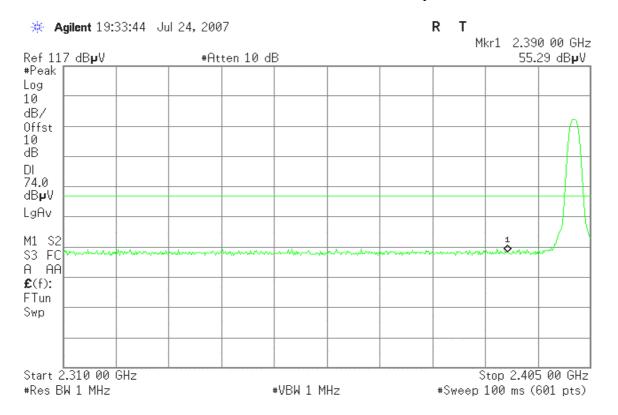
TEST RESULTS

Refer to attach spectrum analyzer data chart.

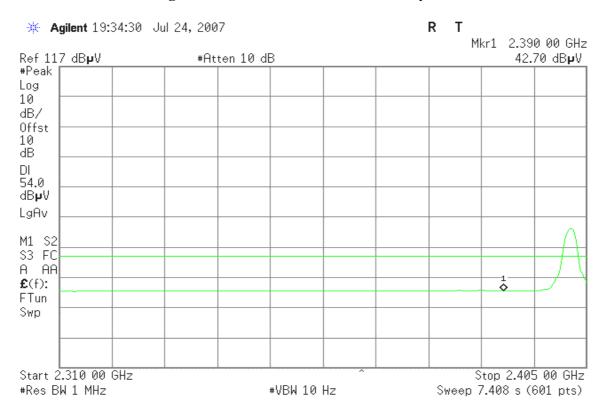
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Band Edges (CH Low)

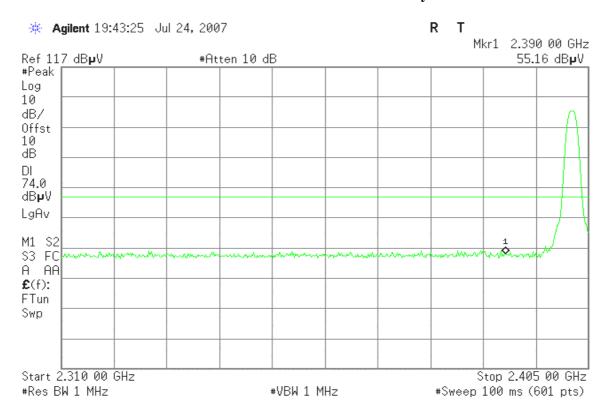
Detector mode: Peak Polarity: Vertical



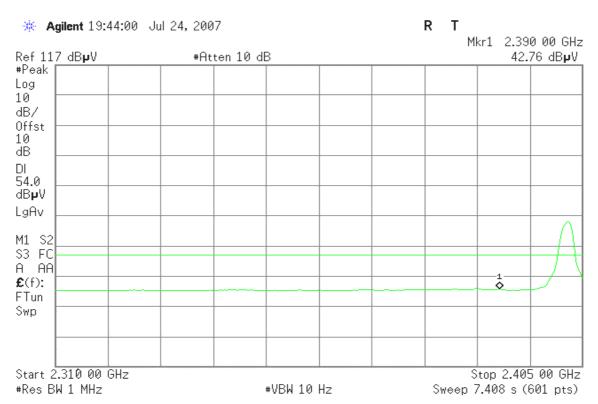
Detector mode: Average Polarity: Vertical



Detector mode: Peak Polarity: Horizontal



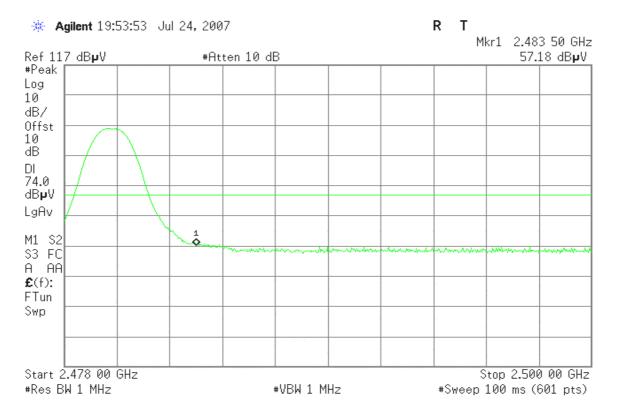
Detector mode: Average Polarity: Horizontal



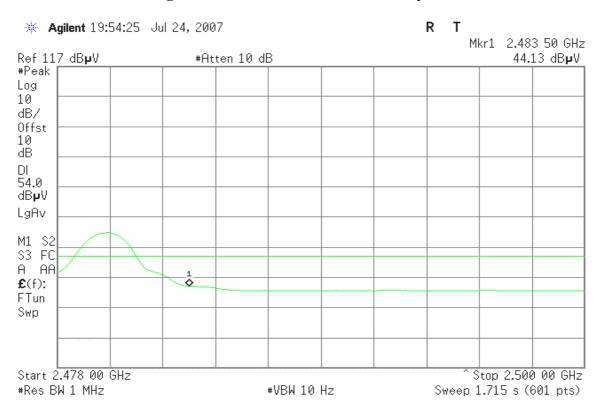
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Band Edges (CH High)

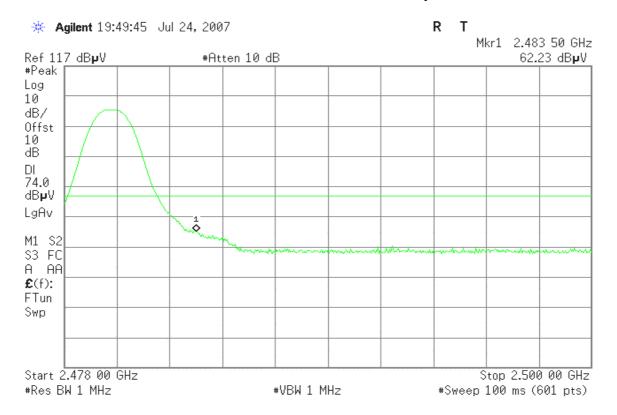
Detector mode: Peak Polarity: Vertical



Detector mode: Average Polarity: Vertical



Detector mode: Peak Polarity: Horizontal



Detector mode: Average Polarity: Horizontal



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7.3 PEAK POWER SPECTRAL DENSITY

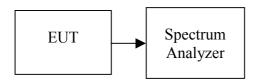
LIMIT

1. According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

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2. According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 300kHz, Sweep=100s
- 4. Record the max. reading.
- 5. Repeat the above procedure until the measurements for all frequencies are completed.

TEST RESULTS

No non-compliance noted

Test Data

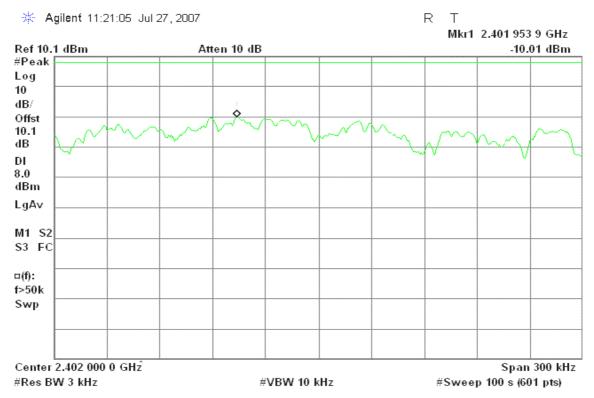
Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2402	-10.01		PASS
Mid	2441	-9.15	8.00	PASS
High	2480	-8.68		PASS

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Test Plot

PPSD (CH Low)



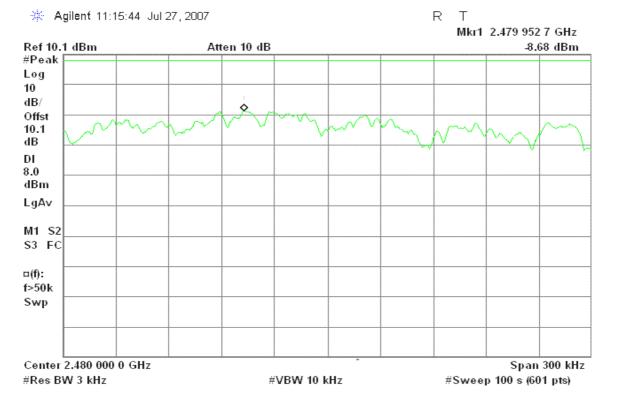
PPSD (CH Mid)



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PPSD (CH High)



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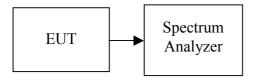
7.4 FREQUENCY SEPARATION

LIMIT

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Date of Issue: August 14, 2007

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set center frequency of spectrum analyzer = middle of hopping channel.
- 4. Set the spectrum analyzer as RBW = 10kHz, VBW = 10kHz, Span = 3MHz, Sweep = auto.
- 5. Max hold, mark 3 peaks of hopping channel and record the 3 peaks frequency.

TEST RESULTS

No non-compliance noted

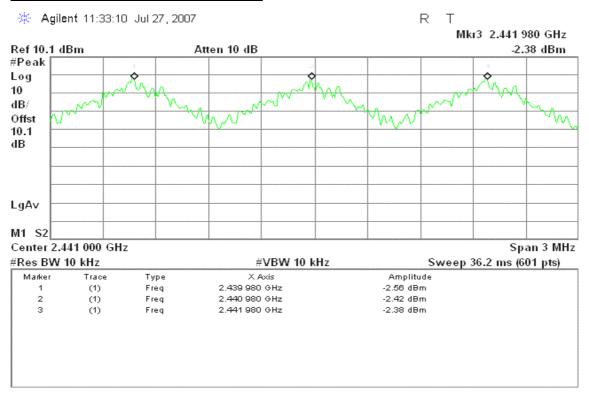
Test Data

Channel Separation (MHz)	20dB Bandwidth (kHz)	Channel Separation Limit	Result
1.00	743	> 20dB Bandwidth or	Pass

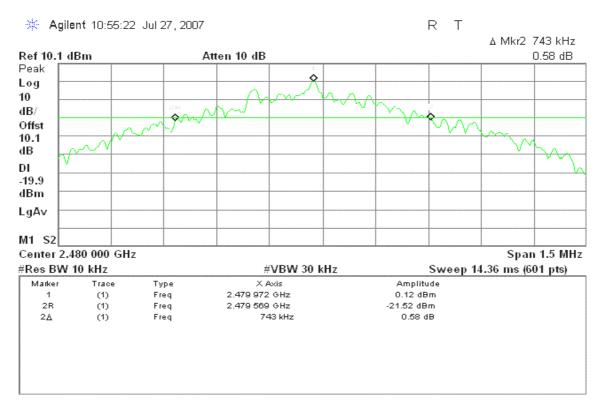
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Test Plot

Measurement of Channel Separation



Measurement of 20dB Bandwidth



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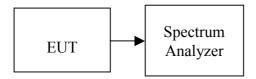
7.5 NUMBER OF HOPPING FREQUENCY

LIMIT

According to §15.247(a)(1)(ii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 75 hopping frequencies.

Date of Issue: August 14, 2007

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set spectrum analyzer Start=2400MHz, Stop = 2441.5MHz, Sweep = auto and Start=2441.5MHz, Stop = 2483.5MHz, Sweep = auto.
- 4. Set the spectrum analyzer as RBW, VBW=510kHz.
- 5. Max hold, view and count how many channel in the band.

TEST RESULTS

No non-compliance noted

Test Data

No non-compliance noted, please see BQB Certificate.

Result (No. of CH)	Limit (No. of CH)	Result
79	>75	PASS

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Test Plot

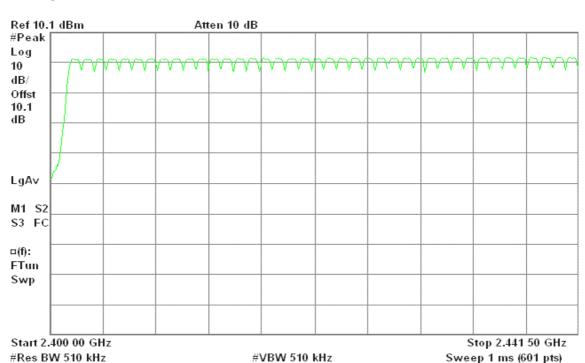
Channel Number

2.4 GHz – 2.4415 GHz



R T

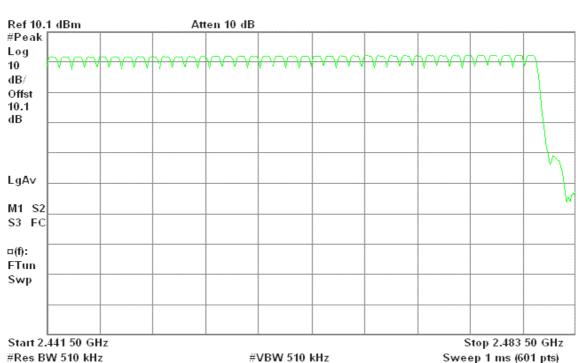
Date of Issue: August 14, 2007



2.4415 GHz – 2.4835 GHz



R T



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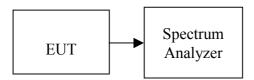
7.6 TIME OF OCCUPANCY (DWELL TIME)

LIMIT

According to \$15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

Date of Issue: August 14, 2007

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set center frequency of spectrum analyzer = operating frequency.
- 4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
- 5. Repeat above procedures until all frequency measured were complete.

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TEST RESULTS

No non-compliance noted

Test Data

DH 1

CH Low: 0.40 * (1600/2)/79 * 31.60 = 128.00 (ms) CH Mid: 0.42 * (1600/2)/79 * 31.60 = 134.40 (ms) CH High: 0.40 * (1600/2)/79 * 31.60 = 128.00 (ms)

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	0.40	128.00	31.60		PASS
Mid	0.42	134.40	31.60	400.00	PASS
High	0.40	128.00	31.60		PASS

DH 3

CH Low: 1.67 * (1600/4)/79 * 31.60 = 267.20 (ms)CH Mid: 1.67 * (1600/4)/79 * 31.60 = 267.20 (ms)CH High: 1.67 * (1600/4)/79 * 31.60 = 267.20 (ms)

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	1.67	267.20	31.60		PASS
Mid	1.67	267.20	31.60	400.00	PASS
High	1.67	267.20	31.60		PASS

<u>DH 5</u>

CH Low: 2.91 * (1600/6)/79 * 31.60 = 310.40 (ms) CH Mid: 2.91 * (1600/6)/79 * 31.60 = 310.40 (ms) CH High: 2.93 * (1600/6)/79 * 31.60 = 312.53 (ms)

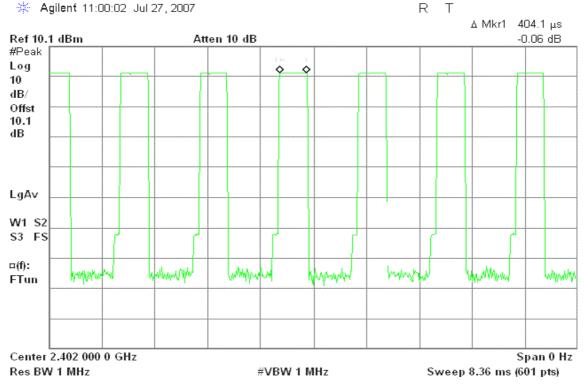
СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	2.91	310.40	31.60		PASS
Mid	2.91	310.40	31.60	400.00	PASS
High	2.93	312.53	31.60		PASS

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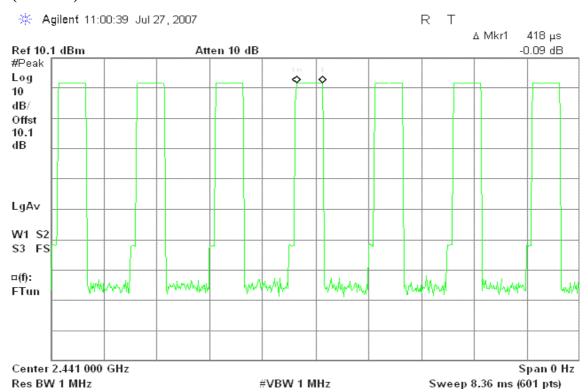
Test Plot

<u>DH 1</u>

(CH Low)

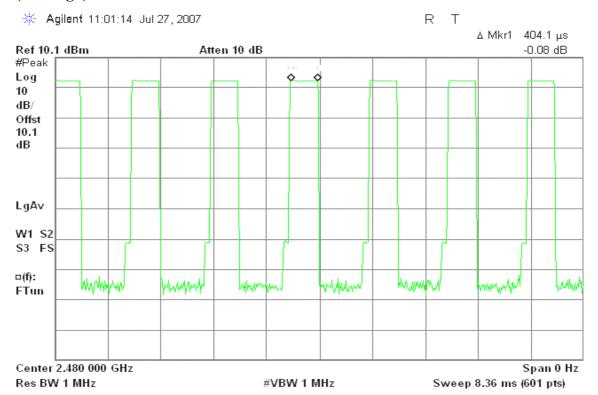


(CH Mid)



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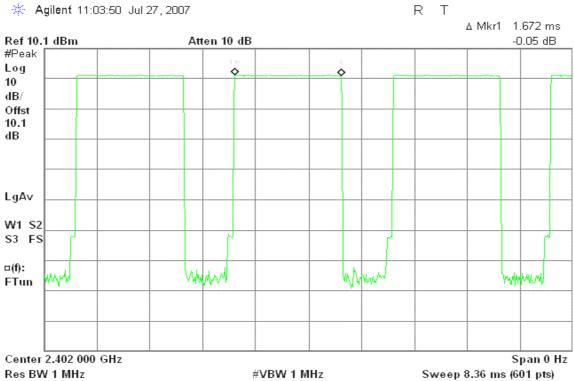
(CH High)



DH 3

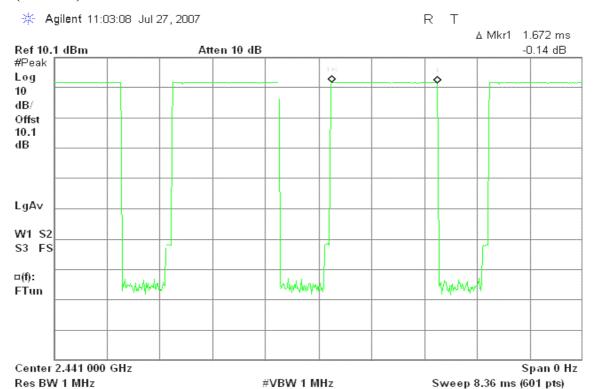
(CH Low)

.



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(CH Mid)



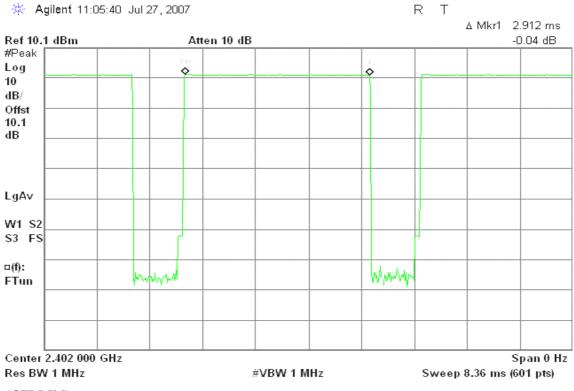
(CH High)

* Agilent 11:02:24 Jul 27, 2007 R T Δ Mkr1 1.672 ms Ref 10.1 dBm 0.07 dB Atten 10 dB #Peak Log 10 dB/Offst 10.1 dBLgAv W1 S2 S3 FS **¤(f)**: MAMAM MANAMAN Vappydeligad FTun Span 0 Hz Center 2.480 000 GHz Res BW 1 MHz #VBW 1 MHz Sweep 8.36 ms (601 pts)

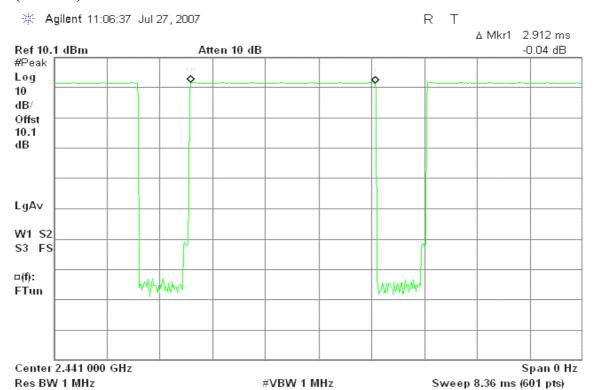
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<u>DH 5</u>

(CH Low)

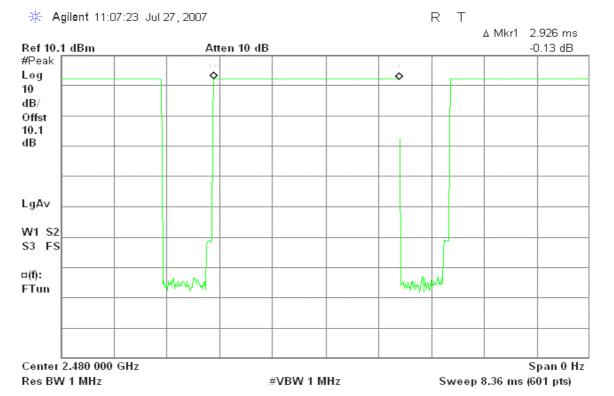


(CH Mid)



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(CH High)



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7.7 SPURIOUS EMISSIONS

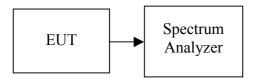
7.7.1 Conducted Measurement

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 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, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Date of Issue: August 14, 2007

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz.

Measurements are made over the 30MHz to 25GHz range with the transmitter set to the lowest, middle, and highest channels.

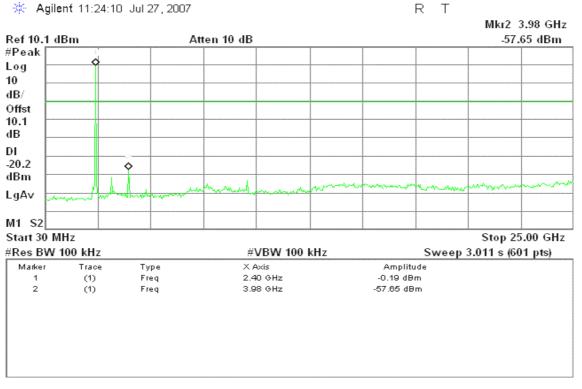
TEST RESULTS

No non-compliance noted

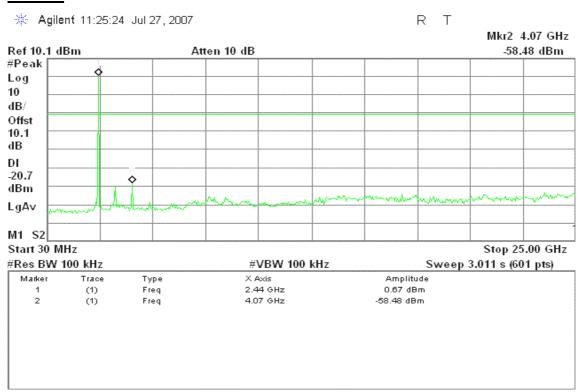
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Test Plot

CH Low

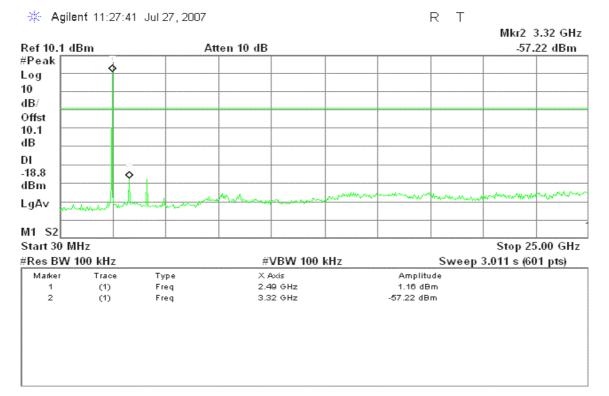


CH Mid



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CH High



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7.7.2 Radiated Emissions

LIMIT

1. According to §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 (μV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

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Remark: 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.

2. In the emission table above, the tighter limit applies at the band edges.

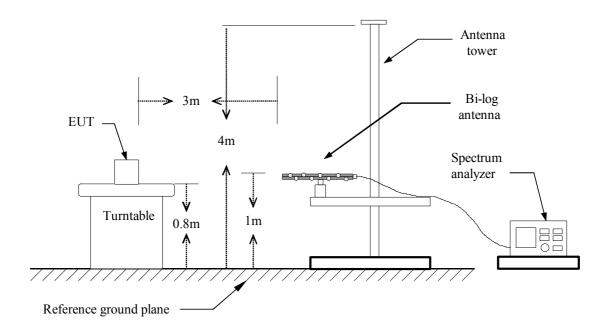
Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

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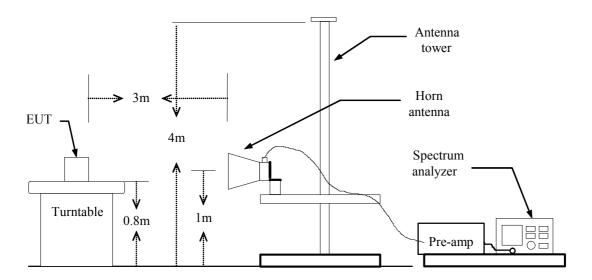
Date of Issue: August 14, 2007

Test Configuration

Below 1 GHz



Above 1 GHz



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TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.

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- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

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

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

7. Repeat above procedures until the measurements for all frequencies are complete.

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TEST RESULTS

No non-compliance noted

Below 1 GHz

Operation Mode: Normal Link **Test Date:** July 24, 2007

Temperature: 26°C **Tested by:** Ming Chen

Humidity: 55 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
332.32	V	52.68	-11.24	41.44	46.00	-4.56	QP
466.50	V	44.54	-8.03	36.51	46.00	-9.49	Peak
500.45	V	44.11	-7.86	36.26	46.00	-9.74	Peak
599.07	V	44.90	-6.21	38.69	46.00	-7.31	Peak
733.25	V	40.82	-4.18	36.64	46.00	-9.36	Peak
809.23	V	40.33	-2.93	37.40	46.00	-8.60	Peak
249.87	Н	42.41	-14.56	27.85	46.00	-18.15	Peak
332.32	Н	44.26	-11.24	33.02	46.00	-12.98	QP
497.22	Н	39.34	-7.85	31.49	46.00	-14.51	Peak
599.07	Н	40.38	-6.21	34.17	46.00	-11.83	Peak
731.63	Н	37.09	-4.17	32.92	46.00	-13.08	Peak
865.82	Н	37.16	-2.47	34.69	46.00	-11.31	Peak

Remark:

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
- 3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Margin (dB) = Remark result (dBuV/m) Quasi-peak limit (dBuV/m).

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Above 1 GHz

Operation Mode: TX / CH Low **Test Date:** July 24, 2007

Date of Issue: August 14, 2007

Temperature: 26°C **Tested by:** Wolf Huang

Humidity: 55 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1603.33	V	56.65		-8.95	47.71		74.00	54.00	-6.29	Peak
4750.00	V	45.28		0.48	45.77		74.00	54.00	-8.23	Peak
5566.67	V	49.90		1.50	51.40		74.00	54.00	-2.60	Peak
N/A										
1603.33	Н	56.97		-8.95	48.03		74.00	54.00	-5.97	Peak
4000.00	Н	53.69		-0.62	53.08		74.00	54.00	-0.92	Peak
4475.00	Н	45.87		0.20	46.07		74.00	54.00	-7.93	Peak
5566.67	Н	46.41		1.50	47.91		74.00	54.00	-6.09	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: TX / CH Mid **Test Date:** July 24, 2007

Date of Issue: August 14, 2007

Temperature: 26°C **Tested by:** Wolf Huang

Humidity: 55 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1600.00	V	51.23		-8.98	42.25		74.00	54.00	-11.75	Peak
1626.67	V	56.94		-8.72	48.22		74.00	54.00	-5.78	Peak
6391.67	V	45.19		2.79	47.98		74.00	54.00	-6.02	Peak
N/A										
1066.67	Н	53.95		-10.68	43.26		74.00	54.00	-10.74	Peak
1200.00	Н	51.17		-10.46	40.71		74.00	54.00	-13.29	Peak
1626.67	Н	56.72		-8.72	48.01		74.00	54.00	-5.99	Peak
4066.67	Н	49.51		-0.50	49.01		74.00	54.00	-4.99	Peak
7191.67	Н	44.39		3.63	48.03		74.00	54.00	-5.97	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: TX / CH High **Test Date:** July 24, 2007

Date of Issue: August 14, 2007

Temperature: 26°C **Tested by:** Wolf Huang

Humidity: 55 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1153.33	V	51.37		-10.54	40.82		74.00	54.00	-13.18	Peak
1440.00	V	49.92		-10.07	39.85		74.00	54.00	-14.15	Peak
1600.00	V	52.36		-8.98	43.38		74.00	54.00	-10.62	Peak
1653.33	V	54.83		-8.45	46.38		74.00	54.00	-7.62	Peak
5650.00	V	49.83		1.61	51.44		74.00	54.00	-2.56	Peak
N/A										
1153.33	Н	49.98		-10.54	39.44		74.00	54.00	-14.56	Peak
1653.33	Н	55.45		-8.45	47.00		74.00	54.00	-7.00	Peak
4133.33	Н	46.97		-0.39	46.58		74.00	54.00	-7.42	Peak
5650.00	Н	45.80		1.61	47.42		74.00	54.00	-6.58	Peak
6716.67	Н	45.86		3.42	49.29		74.00	54.00	-4.71	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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7.8 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to $\S15.207(a)$, 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.

Date of Issue: August 14, 2007

Frequency Range (MHz)	Limits (dBμV)				
(MIIIZ)	Quasi-peak	Average			
0.15 to 0.50	66 to 56*	56 to 46*			
0.50 to 5	56	46			
5 to 30	60	50			

^{*} Decreases with the logarithm of the frequency.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Date of Issue: August 14, 2007

Test Data

Operation Mode: Normal Link **Test Date:** July 25, 2007

Temperature: 25°C Tested by: Ming Chen

Humidity: 55% RH

Freq. (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.150	43.960	40.320	0.155	44.115	40.475	66.000	56.000	-21.885	-15.525	L1
0.216	36.880	33.070	0.104	36.984	33.174	62.971	52.971	-25.987	-19.797	L1
0.288	27.440	26.580	0.078	27.518	26.658	60.582	50.582	-33.064	-23.924	L1
0.360	27.140	26.910	0.051	27.191	26.961	58.729	48.729	-31.537	-21.767	L1
13.857	35.370	31.760	0.390	35.760	32.150	60.000	50.000	-24.240	-17.850	L1
14.652	34.710	32.350	0.409	35.119	32.759	60.000	50.000	-24.881	-17.241	L1
0.150	44.400	41.240	0.155	44.555	41.395	66.000	56.000	-21.445	-14.605	L2
0.216	37.080	34.060	0.104	37.184	34.164	62.971	52.971	-25.787	-18.807	L2
0.291	27.540	27.070	0.077	27.617	27.147	60.496	50.496	-32.879	-23.349	L2
0.360	27.200	27.020	0.051	27.251	27.071	58.729	48.729	-31.477	-21.657	L2
12.694	32.500	29.810	0.363	32.863	30.173	60.000	50.000	-27.137	-19.827	L2
13.638	33.750	30.620	0.385	34.135	31.005	60.000	50.000	-25.865	-18.995	L2

Remark:

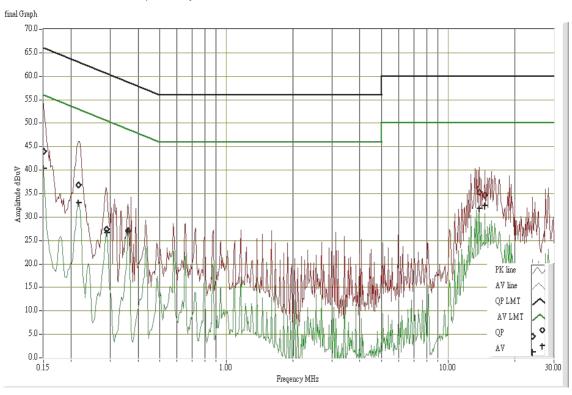
- 1. Measuring frequencies from 0.15 MHz to 30MHz.
- 2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3. The IF bandwidth of SPA between 0.15MHz and 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9kHz;
- 4. $L1 = Line \ One \ (Live \ Line) \ / \ L2 = Line \ Two \ (Neutral \ Line)$

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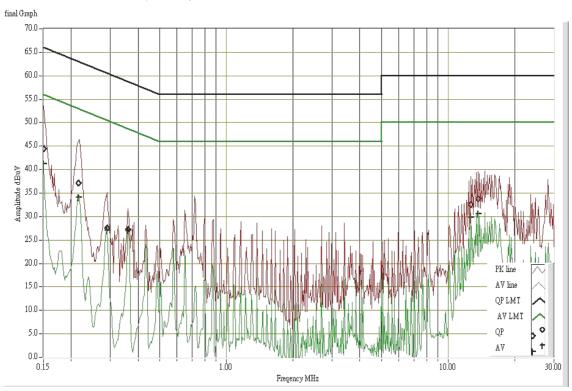
Date of Issue: August 14, 2007

Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)



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8. APPENDIX I RADIO FREQUENCY EXPOSURE

LIMIT

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

Date of Issue: August 14, 2007

EUT Specification

EUT	Bluetooth Hands Free Car Kit					
Frequency band (Operating)	 WLAN: 2.412GHz ~ 2.462GHz WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz WLAN: 5.745GHz ~ 5.825GHz ✓ Others: Bluetooth: 2.402GHz ~ 2.480GHz 					
Device category	☐ Portable (<20cm separation) ☐ Mobile (>20cm separation) ☐ Others					
Exposure classification	Occupational/Controlled exposure $(S = 5mW/cm^2)$ General Population/Uncontrolled exposure $(S=1mW/cm^2)$					
Antenna diversity	☐ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity					
Max. output power	1.92dBm (1.56mW)					
Antenna gain (Max)	-0.21dBi (Numeric gain: 0.95)					
Evaluation applied	☐ MPE Evaluation ☐ SAR Evaluation ☐ N/A*					
Remark:						
	is <u>1.92dBm (1.56mW) a</u> t <u>2480MHz</u> (with <u>0.95 numeric antenna</u>					
gain.) DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.						
For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm ² even if the calculation indicates that the power density would be larger						

TEST RESULTS

No non-compliance noted.

(SAR evaluation is not required for the PORTABLE device while its maximum output power is lower than the general population low threshold: $60/f_{(GHz)}=60/2.441=24.58$ mW)

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