FCC 47 CFR PART 15 SUBPART C
(Class II Permissive Change)

TEST REPORT

For

Pocket PC

Trade Name: Dell

Model: HC03U

Issued to

High Tech Computer Corp.
No. 23, Hsin Hua Rd.,
Taoyuan Hsien 330, Taiwan, R.O.C.

Issued by

Compliance Certification Services Inc.
No. 81-1, Lane 210, Bade Rd. 2, Luchu Hsiang,
Taoyuan Hsien, (338) Taiwan, R.O.C.
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1. TEST RESULT CERTIFICATION

Applicant: High Tech Computer Corp.
No. 23, Hsin Hua Rd.,
Taoyuan Hsien 330, Taiwan, R.O.C.

Equipment Under Test: Pocket PC

Trade Name: Dell

Model Number: HC03U

Date of Test: December 8, 2004

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

We hereby certify that:

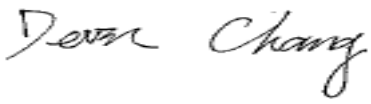
The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 and the energy emitted by the sample EUT tested as described in this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

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

Approved by:

Harris. W. Lai
Executive Vice President
Compliance Certification Services Inc.

Reviewed by:



Devin Chang
Section Manager
Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product	Pocket PC
Trade Name	Dell
Model Number	HC03U
Model Name Discrepancy	Please refer model difference list as below.
Power Supply	Delta / PA-14 I/P: AC 100-240V, 50-60Hz, 400mA O/P: DC 5.4V, 2410mA LITEON / PA-14 I/P: AC 100-240V, 50-60Hz, 400mA O/P: DC 5.4V, 2410mA Battery: 1. Dell / U6191 / 3.7V, 2200mAh 2. Dell / T6476 / 3.7V, 1100mAh
Frequency Range	WLAN: 2412 – 2462 MHz Bluetooth: 2402 MHz – 2480 MHz
Transmit Power	WLAN: 12.85dBm Bluetooth: 1.78 dBm
Modulation Technique	DSSS (CCK; DQPSK; DBPSK) GFSK
Number of Channels	WLAN: 11 Channels Bluetooth: 79 Channels
Antenna Specification	WLAN: 1.33 dBi Bluetooth: -2.62 dBi
Antenna Designation	WLAN: IFA Antenna Bluetooth: Chip Antenna
Class II Permissive Change	Alternate a display (Samsung / LTP370GV-E01/ 3.7" VGA). (Please refer to the **-marked)

Note: *This submittal(s) (test report) is intended for FCC ID: NM8HC3U filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.*

Model difference list

Model	**HC03U**		
Difference	**Type 1**	**Type 2**	**Type 3**
Processor / CPU	Intel Bulverde / 520 MHz /LQ035Q7DH05	Intel Bulverde / 624 MHz / LVPXA270C0624	Intel Bulverde / 624 MHz / LVPXA270C0624
Graphics & Dual Display	No	Yes	Yes
Memory (RAM/ROM)	Intel / RD48F4400L0YDQ0 / 64MB	Intel / RD48F4400L0YDQ0 /64 (128) / 64MB	Intel / RD48F4400L0YDQ0 /64 (128) / 64MB
Display	Sharp / LQ035Q7DH05 / 3.5" QVGA	Sharp / LS037V7DD05 / 3.7" VGA	**Samsung / LTP370GV-E01/ 3.7" VGA

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4. Radiated testing was performed at an antenna to EUT distance 3 meters.

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 max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4.

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:

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	([2])
13.36 - 13.41	322 - 335.4		

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

[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 Type 3 configuration of EUT was been set for testing under operating condition.
Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
There are two sources of power adapters and two batteries (please refer EUT description). After verified, the worst data in the test report is Delta / PA-14.
Condition A (WLAN operation): Channel low (2412MHz)、mid (2437MHz) and high (2462MHz) with 11Mbps highest data rate (worst case) are chosen for the final testing.
Condition B (Bluetooth operation): Channel low (2402MHz)、mid (2441MHz) and high (2480MHz) with highest data rate (worst case) are chosen for final testing.
Condition C (Co-located operation): Radiated among the combination of the Bluetooth Mid channel with every WLAN channel.
The field strength of spurious radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis). The worst case (Y axis) was reported.

4. 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.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

☒ No. 81-1, Lane 210, Bade Rd. 2, Luchu Hsiang, Taoyuan Hsien, Taiwan, R.O.C.

☐ No. 199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2001) 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.”

5.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code: 200600-0 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government. In addition, the test facilities are listed with Federal Communications Commission (registration no: 93105 and 90471).

5.4 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	NVLAP*	EN 55011, EN 55014-1, AS/NZS 1044, CNS 13783-1, EN 55022, CNS 13438, EN 61000-3-2, EN 61000-3-3, ANSI C63.4, FCC OST/MP-5, AS/NZS CISPR 22, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11	NVLAP 200600-0
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	FC 93105, 90471
Japan	VCCI	4 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 300 328-2, 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	N ELA 124a ELA 124b ELA 124c
Taiwan	CNLA	EN 300 328-1/2, EN 300 220-1/2/3, EN 300 440-1/2, EN 61000-3-2, EN 61000-3-3, 47 CFR FCC Part 15 Subpart C/D/E, EN 55013, CNS 13439, EN 55014-1, CNS 13783-1, EN 55022, CNS 13438, CISPR 22, AS/NZS 3548, EN 61000-4-2/3/4/5/6/8/11, ENV 50204, IEEE Std 1528, FCC OET Bulletin, 65+Supplement C, EN50360, EN50361, EN50371, RSS102	CNLA 0363 ILAC MRA
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	RSS212, Issue 1	Canada IC 3991-3 IC 3991-4

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

6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

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

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1.	Notebook PC	IBM	2656	AK-VF0HT	FCC DoC	N/A	Unshielded, 1.8m
2.	Multimedia Headset	Labtec	Axis-301	N/A	FCC DoC	Unshielded, 1.8m	N/A

Notes:

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.*

7. FCC PART 15.247 REQUIREMENTS

7.1 RADIATED EMISSIONS

LIMIT

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

Note: *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 above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	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

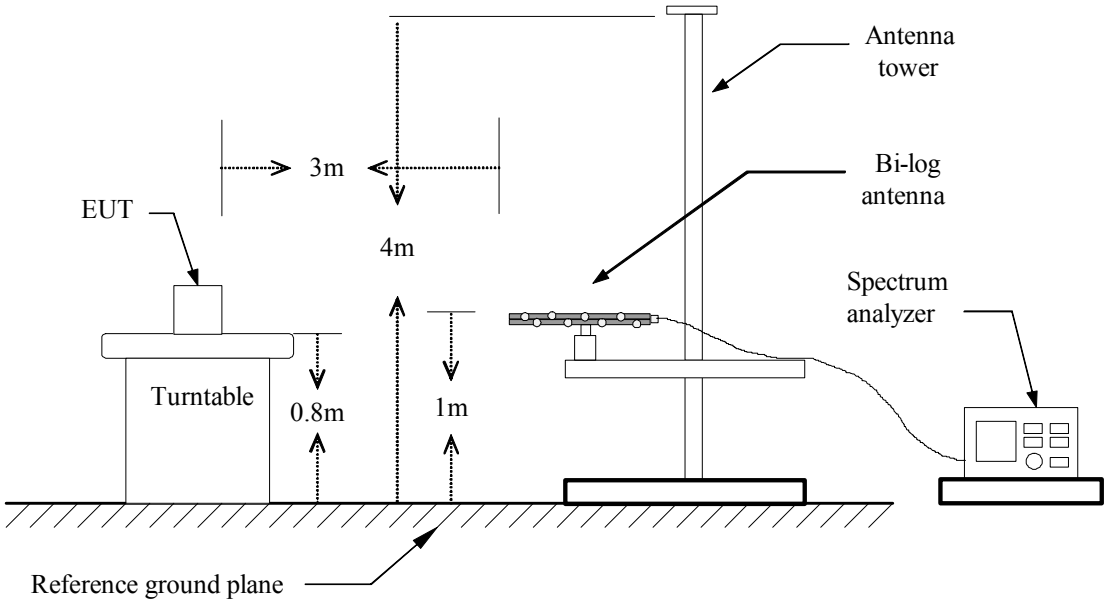
MEASUREMENT EQUIPMENT USED

Open Area Test Site # 3				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
Spectrum Analyzer	ADVANTEST	R3261A	N/A	03/18/2005
EMI Test Receiver	R&S	ESVS20	838804/004	01/04/2005
Pre-Amplifier	HP	8447D	2944A09173	03/03/2005
Bilog Antenna	SCHWAZBECK	VULB9163	145	07/05/2005
Turn Table	EMCO	2081-1.21	9709-1885	N.C.R
Antenna Tower	EMCO	2075-2	9707-2060	N.C.R
Controller	EMCO	2090	9709-1256	N.C.R
RF Switch	ANRITSU	MP59B	M53867	N.C.R
Site NSA	C&C	N/A	N/A	09/06/2004
Horn antenna	Schwarzbeck	BBHA 9120	D210	02/23/2005
Loop Antenna	EMCO	6502	2356	07/10/2005
Pre-Amplifier	HP	8449B	3008B00965	10/02/2005

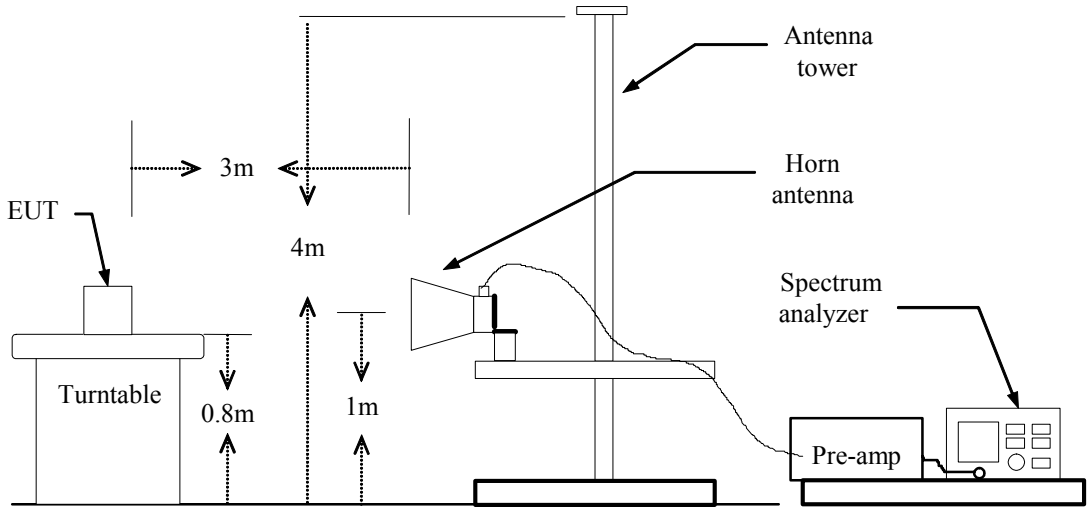
Remark: *Each piece of equipment is scheduled for calibration once a year.*

Test Configuration

Below 1 GHz



Above 1 GHz



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.
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.

TEST RESULTS

CONDITION A: WLAN OPERATION

Below 1 GHz

Operation Mode: TX / CH Low **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
51.15	V	Peak	10.75	15.24	25.99	40.00	-14.01
75.00	V	Peak	13.42	9.82	23.24	40.00	-16.76
274.80	V	Peak	4.32	15.71	20.03	46.00	-25.97
287.80	V	Peak	4.45	16.21	20.66	46.00	-25.34
317.50	V	Peak	2.99	17.15	20.14	46.00	-25.86
455.17	V	Peak	0.95	20.41	21.36	46.00	-24.64
151.05	H	Peak	10.56	11.15	21.71	43.50	-21.79
164.55	H	Peak	12.93	11.73	24.66	43.50	-18.84
399.17	H	Peak	4.03	20.68	24.71	46.00	-21.29
N/A							

Notes:

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 detector mode.*
3. *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.*
4. *The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.*

Operation Mode: TX / CH Mid **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
83.55	V	Peak	22.22	10.43	32.65	40.00	-7.35
199.65	V	Peak	15.71	14.89	30.60	43.50	-12.90
455.17	V	Peak	14.62	20.41	35.03	46.00	-10.97
498.33	V	Peak	9.85	22.43	32.28	46.00	-13.72
714.17	V	Peak	5.54	25.80	31.34	46.00	-14.66
902.00	V	Peak	3.07	28.18	31.25	46.00	-14.75
199.65	H	Peak	14.38	14.89	29.27	43.50	-14.23
356.00	H	Peak	13.87	18.35	32.22	46.00	-13.78
399.17	H	Peak	8.53	20.68	29.21	46.00	-16.79
455.17	H	Peak	15.79	20.41	36.20	46.00	-9.80
528.67	H	Peak	6.17	23.52	29.69	46.00	-16.31
795.83	H	Peak	3.75	26.12	29.87	46.00	-16.13

Notes:

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 detector mode.*
3. *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.*
4. *The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.*

Operation Mode: TX / CH High **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
199.65	V	Peak	17.21	14.89	32.10	43.50	-11.40
325.67	V	Peak	13.28	17.37	30.65	46.00	-15.35
344.33	V	Peak	13.76	17.88	31.64	46.00	-14.36
455.17	V	Peak	16.45	20.41	36.86	46.00	-9.14
498.33	V	Peak	9.69	22.43	32.12	46.00	-13.88
697.83	V	Peak	9.67	25.73	35.40	46.00	-10.60
199.65	H	Peak	14.54	14.89	29.43	43.50	-14.07
356.00	H	Peak	12.70	18.35	31.05	46.00	-14.95
455.17	H	Peak	14.79	20.41	35.20	46.00	-10.80
504.17	H	Peak	8.02	22.66	30.68	46.00	-15.32
528.66	H	Peak	6.67	23.52	30.19	46.00	-15.81
697.83	H	Peak	7.67	25.73	33.40	46.00	-12.60

Notes:

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 detector mode.*
3. *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.*
4. *The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.*

Above 1 GHz

Operation Mode: TX / CH Low **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
4325.00	V	40.00	---	2.62	42.62	---	74.00	54.00	-11.38	Peak
6458.33	V	40.00	---	5.47	45.47	---	74.00	54.00	-8.53	Peak
N/A										
1603.33	H	46.17	---	-6.77	39.40	---	74.00	54.00	-14.60	Peak
3825.00	H	39.84	---	1.86	41.70	---	74.00	54.00	-12.30	Peak
5983.33	H	40.17	---	5.18	45.35	---	74.00	54.00	-8.65	Peak
N/A										

Notes:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. *Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.*
   b. *AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto*

Operation Mode: TX / CH Mid **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1353.33	V	46.67	---	-8.45	38.22	---	74.00	54.00	-15.78	Peak
4383.33	V	40.67	---	2.61	43.28	---	74.00	54.00	-10.72	Peak
6333.33	V	40.00	---	5.40	45.40	---	74.00	54.00	-8.60	Peak
N/A										
1720.00	H	46.67	---	-6.15	40.52	---	74.00	54.00	-13.48	Peak
4258.33	H	40.17	---	2.63	42.80	---	74.00	54.00	-11.20	Peak
5700.00	H	39.84	---	4.91	44.75	---	74.00	54.00	-9.25	Peak
N/A										

Notes:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. *Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.*
   b. *AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto*

Operation Mode: TX / CH High **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1210.00	V	49.50	---	-8.98	40.52	---	74.00	54.00	-13.48	Peak
4466.66	V	40.17	---	2.60	42.77	---	74.00	54.00	-11.23	Peak
5475.00	V	39.67	---	4.67	44.34	---	74.00	54.00	-9.66	Peak
N/A										
1326.66	H	47.17	---	-8.55	38.62	---	74.00	54.00	-15.38	Peak
4625.00	H	40.50	---	2.86	43.36	---	74.00	54.00	-10.64	Peak
5558.33	H	40.50	---	4.78	45.28	---	74.00	54.00	-8.72	Peak
N/A										

Notes:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. *Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.*
   b. *AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto*

CONDITION B: BLUETOOTH OPERATION

Below 1 GHz

Operation Mode: TX / CH Low **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
199.65	V	Peak	19.04	14.89	33.93	43.50	-9.57
344.33	V	Peak	11.92	17.88	29.80	46.00	-16.20
398.00	V	Peak	9.55	20.61	30.16	46.00	-15.84
455.17	V	Peak	13.45	20.41	33.86	46.00	-12.14
500.67	V	Peak	10.78	22.53	33.31	46.00	-12.69
697.83	V	Peak	8.67	25.73	34.40	46.00	-11.60
199.65	H	Peak	16.21	14.89	31.10	43.50	-12.40
344.33	H	Peak	14.59	17.88	32.47	46.00	-13.53
455.17	H	Peak	15.62	20.41	36.03	46.00	-9.97
584.67	H	Peak	5.36	25.04	30.40	46.00	-15.60
699.00	H	Peak	3.99	25.75	29.74	46.00	-16.26
863.50	H	Peak	2.76	27.51	30.27	46.00	-15.73

Notes:

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 detector mode.*
3. *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.*
4. *The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.*

Operation Mode: TX / CH Mid **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
199.20	V	Peak	19.24	14.84	34.08	43.50	-9.42
344.33	V	Peak	10.76	17.88	28.64	46.00	-17.36
399.17	V	Peak	9.53	20.68	30.21	46.00	-15.79
455.17	V	Peak	13.29	20.41	33.70	46.00	-12.30
498.33	V	Peak	7.52	22.43	29.95	46.00	-16.05
697.83	V	Peak	8.67	25.73	34.40	46.00	-11.60
199.65	H	Peak	16.21	14.89	31.10	43.50	-12.40
345.50	H	Peak	12.94	17.91	30.85	46.00	-15.15
399.17	H	Peak	9.03	20.68	29.71	46.00	-16.29
455.17	H	Peak	14.95	20.41	35.36	46.00	-10.64
584.67	H	Peak	3.69	25.04	28.73	46.00	-17.27
697.83	H	Peak	7.00	25.73	32.73	46.00	-13.27

Notes:

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 detector mode.*
3. *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.*
4. *The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.*

Operation Mode: TX / CH High **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
199.65	V	Peak	20.04	14.89	34.93	43.50	-8.57
324.50	V	Peak	11.79	17.34	29.13	46.00	-16.87
399.17	V	Peak	9.36	20.68	30.04	46.00	-15.96
455.17	V	Peak	13.79	20.41	34.20	46.00	-11.80
498.33	V	Peak	7.52	22.43	29.95	46.00	-16.05
699.00	V	Peak	5.49	25.75	31.24	46.00	-14.76
199.65	H	Peak	17.38	14.89	32.27	43.50	-11.23
232.50	H	Peak	14.04	15.62	29.66	46.00	-16.34
399.17	H	Peak	9.53	20.68	30.21	46.00	-15.79
455.17	H	Peak	16.45	20.41	36.86	46.00	-9.14
499.50	H	Peak	6.49	22.49	28.98	46.00	-17.02
584.67	H	Peak	4.86	25.04	29.90	46.00	-16.10

Notes:

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 detector mode.*
3. *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.*
4. *The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.*

Above 1 GHz

Operation Mode: TX / CH Low **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1850.00	V	46.50	---	-5.40	41.10	---	74.00	54.00	-12.90	Peak
3950.00	V	39.00	---	2.43	41.43	---	74.00	54.00	-12.57	Peak
6175.00	V	39.84	---	5.30	45.14	---	74.00	54.00	-8.86	Peak
N/A										
1320.00	H	46.84	---	-8.58	38.26	---	74.00	54.00	-15.74	Peak
5216.66	H	40.00	---	4.13	44.13	---	74.00	54.00	-9.87	Peak
5591.66	H	40.34	---	4.81	45.15	---	74.00	54.00	-8.85	Peak
N/A										

Notes:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. *Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.*
   b. *AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto*

Operation Mode: TX / CH Mid **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
4541.66	V	40.00	---	2.68	42.68	---	74.00	54.00	-11.32	Peak
5733.33	V	39.67	---	4.95	44.62	---	74.00	54.00	-9.38	Peak
N/A										
3783.33	H	41.00	---	1.67	42.67	---	74.00	54.00	-11.33	Peak
5808.33	H	40.34	---	5.02	45.36	---	74.00	54.00	-8.64	Peak
N/A										

Notes:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. *Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.*
   b. *AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto*

Operation Mode: TX / CH High **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
2076.66	V	47.00	---	-4.13	42.87	---	74.00	54.00	-11.13	Peak
3708.33	V	40.00	---	1.33	41.33	---	74.00	54.00	-12.67	Peak
5100.00	V	39.50	---	3.88	43.38	---	74.00	54.00	-10.62	Peak
N/A										
1786.66	H	47.34	---	-5.80	41.54	---	74.00	54.00	-12.46	Peak
3716.67	H	40.67	---	1.37	42.04	---	74.00	54.00	-11.96	Peak
5600.00	H	40.50	---	4.82	45.32	---	74.00	54.00	-8.68	Peak
N/A										

Notes:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. *Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.*
   b. *AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto*

CONDITION C: CO-LOACATED OPERATION (WLAN & BLUETOOTH OPERATED SIMULTANEOUSLY)

Below 1 GHz

Operation Mode: BT / CH Mid + / WLAN CH Low **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
43.50	V	Peak	15.33	14.93	30.26	40.00	-9.74
199.65	V	Peak	20.21	14.89	35.10	43.50	-8.40
232.50	V	Peak	13.87	15.62	29.49	46.00	-16.51
399.17	V	Peak	8.53	20.68	29.21	46.00	-16.79
455.17	V	Peak	13.95	20.41	34.36	46.00	-11.64
696.67	V	Peak	7.17	25.71	32.88	46.00	-13.12
199.20	H	Peak	17.41	14.84	32.25	43.50	-11.25
232.50	H	Peak	14.04	15.62	29.66	46.00	-16.34
347.83	H	Peak	12.63	17.97	30.60	46.00	-15.40
455.17	H	Peak	14.79	20.41	35.20	46.00	-10.80
696.66	H	Peak	7.34	25.71	33.05	46.00	-12.95
798.17	H	Peak	4.61	26.13	30.74	46.00	-15.26

Notes:

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 detector mode.*
3. *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.*
4. *The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.*

Operation Mode: BT / CH Mid + / WLAN / CH Mid **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
199.20	V	Peak	19.91	14.84	34.75	43.50	-8.75
299.50	V	Peak	13.89	16.66	30.55	46.00	-15.45
399.17	V	Peak	9.20	20.68	29.88	46.00	-16.12
455.17	V	Peak	12.79	20.41	33.20	46.00	-12.80
498.33	V	Peak	7.52	22.43	29.95	46.00	-16.05
697.83	V	Peak	10.50	25.73	36.23	46.00	-9.77
199.65	H	Peak	17.21	14.89	32.10	43.50	-11.40
232.50	H	Peak	14.04	15.62	29.66	46.00	-16.34
344.33	H	Peak	11.76	17.88	29.64	46.00	-16.36
456.33	H	Peak	15.77	20.47	36.24	46.00	-9.76
584.66	H	Peak	4.69	25.04	29.73	46.00	-16.27
699.00	H	Peak	4.16	25.75	29.91	46.00	-16.09

Notes:

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 detector mode.*
3. *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.*
4. *The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.*

Operation Mode: BT / CH Mid + / WLAN / CH High **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
199.65	V	Peak	18.71	14.89	33.60	43.50	-9.90
232.50	V	Peak	12.20	15.62	27.82	46.00	-18.18
343.17	V	Peak	10.91	17.85	28.76	46.00	-17.24
400.33	V	Peak	8.68	20.72	29.40	46.00	-16.60
455.17	V	Peak	13.62	20.41	34.03	46.00	-11.97
697.83	V	Peak	5.50	25.73	31.23	46.00	-14.77
199.65	H	Peak	15.71	14.89	30.60	43.50	-12.90
346.66	H	Peak	15.29	17.94	33.23	46.00	-12.77
454.00	H	Peak	16.47	20.36	36.83	46.00	-9.17
500.67	H	Peak	8.28	22.53	30.81	46.00	-15.19
599.83	H	Peak	8.98	25.37	34.35	46.00	-11.65
697.83	H	Peak	9.50	25.73	35.23	46.00	-10.77

Notes:

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 detector mode.*
3. *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.*
4. *The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.*

Above 1 GHz

Operation Mode: BT / CH Mid + / WLAN / CH Low **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1970.00	V	47.00	---	-4.60	42.40	---	74.00	54.00	-11.60	Peak
3541.66	V	40.34	---	0.57	40.91	---	74.00	54.00	-13.09	Peak
5508.33	V	39.84	---	4.73	44.57	---	74.00	54.00	-9.43	Peak
N/A										
1476.66	H	47.00	---	-7.75	39.25	---	74.00	54.00	-14.75	Peak
2470.00	H	52.84	---	-2.85	49.99	---	74.00	54.00	-4.01	Peak
3608.33	H	40.50	---	0.87	41.37	---	74.00	54.00	-12.63	Peak
4550.00	H	40.50	---	2.70	43.20	---	74.00	54.00	-10.80	Peak
N/A										

Notes:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. *Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.*
   b. *AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto*

Operation Mode: BT / CH Mid + / WLAN / CH Mid **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
2133.33	V	47.17	---	-3.95	43.22	---	74.00	54.00	-10.78	Peak
3908.33	V	39.84	---	2.24	42.08	---	74.00	54.00	-11.92	Peak
4733.33	V	40.17	---	3.10	43.27	---	74.00	54.00	-10.73	Peak
N/A										
2180.00	H	47.17	---	-3.79	43.38	---	74.00	54.00	-10.62	Peak
4166.66	H	39.34	---	2.64	41.98	---	74.00	54.00	-12.02	Peak
5500.00	H	39.67	---	4.73	44.40	---	74.00	54.00	-9.60	Peak
N/A										

Notes:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. *Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.*
   b. *AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto*

Operation Mode: BT / CH Mid + / WLAN / CH High **Test Date:** December 8, 2004

Temperature: 28°C **Tested by:** Max Yao

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1490.00	V	47.67	---	-7.67	40.00	---	74.00	54.00	-14.00	Peak
3541.66	V	40.50	---	0.57	41.07	---	74.00	54.00	-12.93	Peak
5733.33	V	39.50	---	4.95	44.45	---	74.00	54.00	-9.55	Peak
N/A										
2093.33	H	47.34	---	-4.08	43.26	---	74.00	54.00	-10.74	Peak
3616.66	H	41.00	---	0.91	41.91	---	74.00	54.00	-12.09	Peak
5616.66	H	40.00	---	4.84	44.84	---	74.00	54.00	-9.16	Peak
N/A										

Notes:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. *Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.*
   b. *AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto*