

FCC PART 15.249
EMI MEASUREMENT AND TEST REPORT

For

Qiaoxing Telecom Industry Co., Ltd.

Qiaoxing Science Zone, Tangquan
Huizhou City, Guangdong, P.R.C.

FCC ID: R9WTC-STC590-595

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: 900 MHz Analog Cordless Phone - Base
Test Engineer: Snell Leong	
Report No.: R0410223	
Report Date: 2004-10-18 / 2004-10-20	
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TABLE OF CONTENTS

GENERAL INFORMATION.....	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
OBJECTIVE	3
RELATED SUBMITTAL(S)/GRANT(S)	3
TEST METHODOLOGY	3
TEST FACILITY	3
SYSTEM TEST CONFIGURATION.....	5
DESCRIPTION OF TEST CONFIGURATION	5
EQUIPMENT MODIFICATIONS	5
LOCAL SUPPORT EQUIPMENT LIST AND DETAILS	5
EXTERNAL I/O CABLING LIST AND DETAILS	5
CONFIGURATION OF TEST SYSTEM	5
TEST SETUP BLOCK DIAGRAM.....	6
SUMMARY OF TEST RESULTS	7
§15.203 - ANTENNA REQUIREMENT.....	8
STANDARD APPLICABLE	8
ANTENNA CONNECTED CONSTRUCTION	8
§ 15.249 (C) - CONDUCTED EMISSIONS TEST DATA	9
MEASUREMENT UNCERTAINTY	9
EUT SETUP.....	9
SPECTRUM ANALYZER SETUP.....	9
TEST EQUIPMENT LIST AND DETAILS.....	9
TEST PROCEDURE	9
ENVIRONMENTAL CONDITIONS	10
SUMMARY OF TEST RESULTS	10
CONDUCTED EMISSIONS TEST DATA	10
PLOT OF CONDUCTED EMISSIONS TEST DATA	10
§15.209(A) - RADIATED EMISSION DATA.....	13
MEASUREMENT UNCERTAINTY	13
EUT SETUP.....	13
SPECTRUM ANALYZER SETUP.....	13
TEST EQUIPMENT LIST AND DETAILS.....	14
ENVIRONMENTAL CONDITIONS	14
TEST PROCEDURE	14
CORRECTED AMPLITUDE & MARGIN CALCULATION	14
SUMMARY OF TEST RESULTS	15
RADIATED EMISSIONS TEST RESULT DATA, 3M.....	15
§15.249(C) – BAND-EDGE TESTING	18
STANDARD APPLICABLE	18
TEST PROCEDURE	18
TEST EQUIPMENT LIST AND DETAILS.....	18
ENVIRONMENTAL CONDITIONS	18
TEST RESULTS	18

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Qiaoxing Telecom Industry Co., Ltd.*'s product, FCC ID: R9WTC-STC590-595, or the "EUT" as referred to in this report is the base of a cordless phone. The EUT operates at frequency 902.03-978.05 MHz. The EUT is measured approximately 170cmL x 100cmW x 55cmH.

** The test data gathered are from production sample, serial number: D203A008, provided by the manufacturer.*

Objective

This document is a test report based on the Electromagnetic Interference (EMI) tests performed on the EUT. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4 - 2001.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.205, 15.207, and 15.249, 15.203, 15.209 rules.

Related Submittal(s)/Grant(s)

No Related Submittals

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4 - 2001, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Open Area Test site used by Bay Area Compliance Laboratory Corporation to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Sunnyvale, California, USA.

Test site at Bay Area Compliance Laboratory Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2001.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-1298 and R-1234. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratory Corporation is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (NVLAP). The scope of the accreditation covers the FCC Method - 47 CFR Part 15 - Digital Devices, CISPR 22:1997 and AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment test methods under NVLAP Lab Code 200167-0.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing according to ANSI C63.4-2001.

The final qualification test was performed with the EUT operating at normal mode

Equipment Modifications

No modifications were made to the EUT.

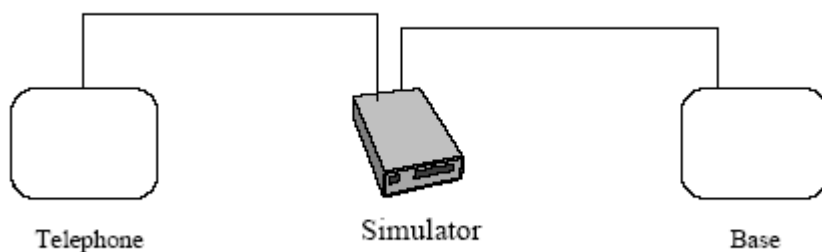
Local Support Equipment List and Details

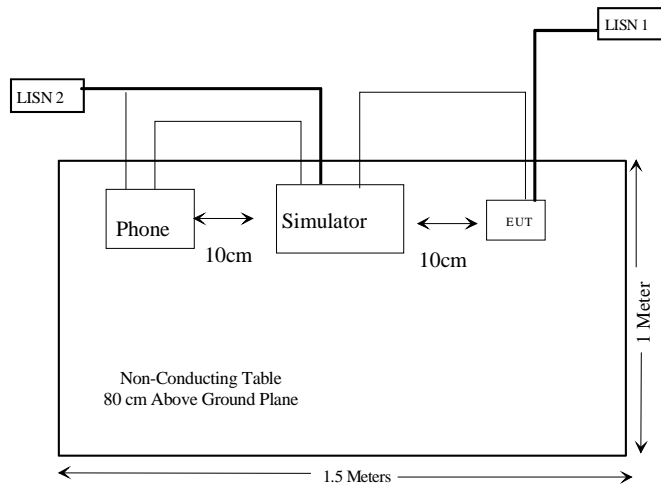
Manufacturer	Description	Model	Serial Number	FCC ID
Telton	Lin Simulator	TLS-3B-01	80071	N/A
Southern Telecom	Phone	N/A	N/A	N/A

External I/O Cabling List and Details

Cable Description	Length (M)	Port/From	To
Phone Line	1.0	Line 1 Port / Line Simulator	Phone
Phone Line	1.0	Line 2 Port / Line Simulator	EUT

Configuration of Test System



Test Setup Block Diagram

SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Bands of Operation	Compliant
§15.207 (a)	Conducted Emission	Compliant
§15.209 (a), §15.249 (a)	Radiated Emission	Compliant
§15.249 (c)	Band Edge Testing	Compliant

§15.203 - ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Connected Construction

The antenna connector is designed with permanent attachment and no consideration of replacement.

§ 15.249 (c) - CONDUCTED EMISSIONS TEST DATA

Measurement Uncertainty

All measurements involve certain levels of uncertainties. These uncertainties are attributed to: Spectrum analyzer, Cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the estimated uncertainty of any conducted emission measurement at BACL is ± 2.4 dB.

EUT Setup

The measurement was performed in the shielded room, using the same setup per ANSI C63.4-2001 measurement procedure. The specification used was FCC 15 Subpart C limits.

External I/O cables were draped along the edge of the test table and bundle as required.

The Notebook PC was connected with 120Vac/60Hz power source.

Spectrum Analyzer Setup

The spectrum analyzer was set to investigate the spectrum from 150 kHz to 30Mhz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
Rohde & Schwarz	Artificial LISN	ESH2-Z5	871884/039	2004-03-28
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2004-05-06

* **Statement of Traceability:** BACL attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

Test Procedure

During the conducted emission test, the power cord of the host system was connected to the auxiliary outlet of the first LISN.

Maximizing procedure were performed on the six (6) highest emissions of the EUT.

All data was recorded in the peak detection mode, quasi-peak and average. Quasi-Peak readings are distinguished with an "QP". Average readings are distinguished with an "Ave".

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	38%
ATM Pressure:	1015mbar

Testing was performed by Ling Zhang on 2004-10-18.

Summary of Test Results

According to the recorded data in following table, the EUT complies with the FCC Conducted limit for a Class B device, with the *worst* margin reading of:

-32.7 dB at 17.9 MHz in the Line mode

Conducted Emissions Test Data

Frequency MHz	LINE CONDUCTED EMISSIONS			FCC CLASS B	
	Amplitude dBμV	Detector Qp/Ave/Peak	Phase Line/Neutral	Limit dBμV	Margin dB
17.900	17.3	Ave	LINE	50.00	-32.7
17.900	15.5	Ave	Neutral	50.00	-34.5
4.000	9.2	Ave	Neutral	46.00	-36.8
0.580	14.9	QP	Neutral	56.00	-41.1
0.595	14.5	QP	LINE	56.00	-41.5
13.300	8.2	Ave	LINE	50.00	-41.8
4.000	4.0	Ave	LINE	46.00	-42.0
17.900	16.9	QP	LINE	60.00	-43.1
0.580	2.7	Ave	Neutral	46.00	-43.3
17.900	15.5	QP	Neutral	60.00	-44.5
4.000	10.3	QP	LINE	56.00	-45.7
4.000	9.9	QP	Neutral	56.00	-46.1

Plot of Conducted Emissions Test Data

Plot of Conducted Emissions test data was presented hereinafter as reference.

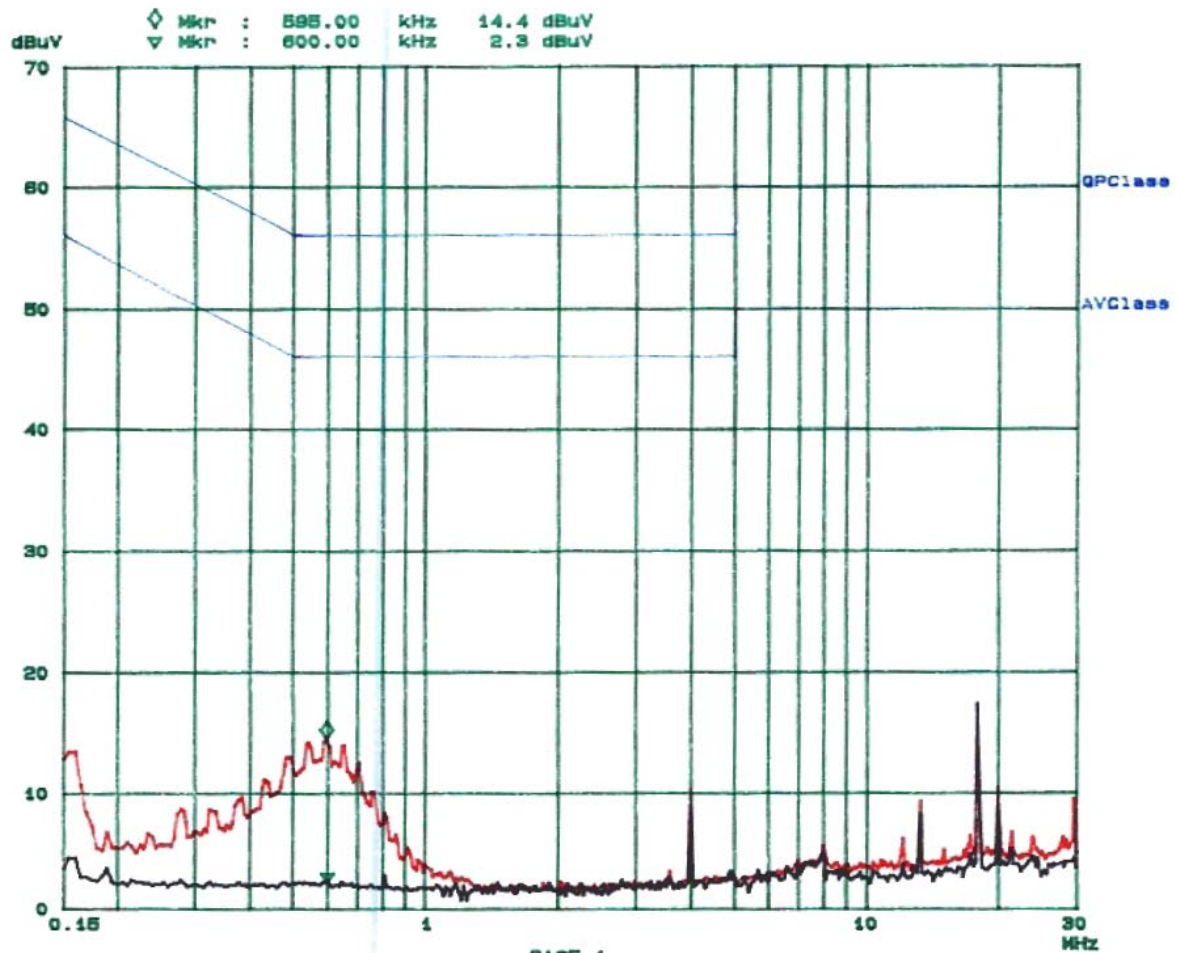
Bay Area Compliance Laboratory Corp
Class B

18. Oct 04 15:58

EUT: cordless phone stc-tc580-595
Manuf: Qiaoxing
Op Cond: Normal
Operator: Shell
Comment: WL

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	1M	5k	9k	QP+AV	20ms	15dBLN	OFF
1M	5M	10k	9k	QP+AV	1ms	15dBLN	OFF
5M	30M	100k	9k	QP+AV	1ms	15dBLN	OFF



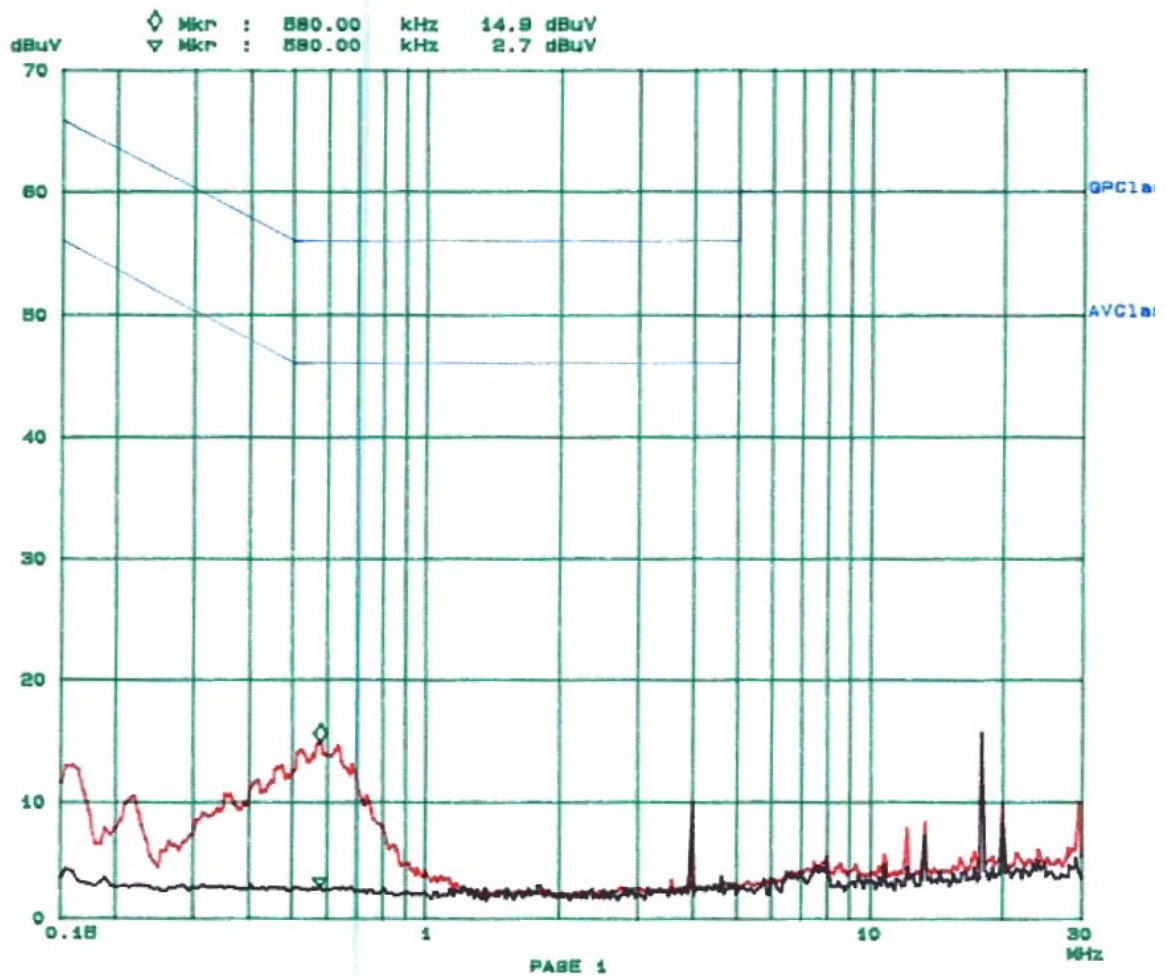
Bay Area Compliance Laboratory Corp
Class B

18. Oct 04 16:30

EUT: cordless phone stc-tc590-595
Manuf: QiaoXing
Op Cond: Normal
Operator: Shell
Comment: N

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	1M	5k	9k	QP+AV	20ms	15dB LN	OFF
1M	5M	10k	9k	QP+AV	1ms	15dB LN	OFF
5M	30M	100k	9k	QP+AV	1ms	15dB LN	OFF



§15.209(a) - RADIATED EMISSION DATA

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at BACL is ± 4.0 dB.

EUT Setup

The radiated emission tests were performed in the open area 3-meter test site, using the setup in accordance with ANSI C63.4-2001. The specification used was the FCC 15 Subpart C limits.

The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle as required.

Spectrum Analyzer Setup

According to FCC Rules, 47 CFR 15.33 (a) (1), the system was tested to 25GHz.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

<i>Frequency Range</i>	<i>RBW</i>	<i>Video B/W</i>
Below 30MHz	10kHz	10kHz
30 – 1000MHz	100kHz	100kHz
Above 1000MHz	1MHz	1MHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
HP	Spectrum Analyzer	8568B	2601A02165	2004-07-03
HP	Amplifier	8447E	2944A10187	2004-09-23
HP	Quasi-Peak Adapter	85650A	3019A05393	2004-06-13
EMCO	Biconical Antenna	3110B	9309-1165	2004-10-11
EMCO	Log Periodic Antenna	3146	2101	2004-10-11
Agilent	Spectrum Analyzer (9KHz – 50GHz)	8565EC	3946A00131	2004-05-03
HP	Amplifier (1-26.5GHz)	8449B	3147A00400	2004-03-14
A.H.System	Horn Antenna (700MHz-18GHz)	SAS-200/571	261	2004-05-31

* **Statement of Traceability:** BACL attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	38%
ATM Pressure:	1015mbar

Testing was performed by Snell Leong on 2004-10-18.

Test Procedure

For the radiated emissions test, the power cord of the EUT was connected to the AC floor outlet.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant with all installation combinations.

All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dBμV of specification limits), and are distinguished with a "Qp" in the data table.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dBμV means the emission is 7dBμV below the maximum limit for applicable limits. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Applicable Limit}$$

Summary of Test Results

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.207, and 15.249 after tested to 10th harmonics as required by FCC and had the worst margin of:

- 2.7 dB at 902.03 MHz in the Horizontal polarization at Low Channel
- 2.4 dB at 5857.52 MHz in the Vertical polarization at Middle Channel
- 0.6 dB at 5863.3 MHz in the Vertical polarization at High Channel
- 3.6 dB at 894.95 MHz in the Vertical polarization at Unintentional Emission

Radiated Emissions Test Result Data, 3M

INDICATED			TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency MHz	Ampl. dBμV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dB	Cable DB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
900MHz – 10GHz, Low Channel											
902.0300	92.3	FUND/PEAK	90	1.0	H	23.6	3.8	28.4	91.3	94	-2.7
1804.0600	59.1	AVE	30	1.5	H	25.3	1.9	36.3	50.0	54	-4.0
1804.0600	58.2	AVE	0	3.0	V	25.3	1.9	36.3	49.1	54	-4.9
902.0300	85.3	FUND/PEAK	45	2.5	V	23.6	3.8	28.4	84.3	94	-9.7
3608.1800	40.6	AVE	0	2.0	V	30.3	2.7	34.8	38.8	54	-15.2
3608.1800	39.6	AVE	15	4.0	H	30.3	2.7	34.8	37.8	54	-16.2
2706.0900	39.9	AVE	30	3.0	H	29.0	2.4	35.5	35.8	54	-18.2
2706.0900	39.3	AVE	20	4.0	V	29.0	2.4	35.5	35.2	54	-18.8
1804.0600	60.6	PEAK	0	3.0	V	25.3	1.9	36.3	51.5	74	-22.5
1804.0600	60.2	PEAK	30	1.5	H	25.3	1.9	36.3	51.1	74	-22.9
3608.1800	49.3	PEAK	0	2.0	V	30.3	2.7	34.8	47.5	74	-26.5
3608.1800	49.0	PEAK	50	4.0	H	30.3	2.7	34.8	47.2	74	-26.8
2706.0900	46.6	PEAK	30	3.0	H	29.0	2.4	35.5	42.5	74	-31.5
2706.0900	46.5	PEAK	20	4.0	V	29.0	2.4	35.5	42.4	74	-31.6

Radiated Emissions Test Result Data, 3M (Continued)

INDICATED			TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency MHz	Ampl. dBμV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dB	Cable DB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
900MHz – 10GHZ, Middle Channel											
5857.5200	48.6	AVE	0	2.4	V	34.1	3.4	34.5	51.6	54	-2.4
4881.2700	49.8	AVE	0	3.6	H	32.5	3.1	34.8	50.6	54	-3.4
1805.9000	57.1	AVE	90	3.0	V	25.3	1.9	36.3	48.0	54	-6.0
902.9500	88.2	FUND/PEAK	90	1.4	V	23.6	3.8	28.4	87.2	94	-6.8
902.9500	59.8	FUND/PEAK	180	3.2	H	23.6	3.8	28.4	87.2	94	-6.8
1805.9000	56.0	AVE	45	3.0	H	25.3	1.9	36.3	46.9	54	-7.1
5857.5200	42.5	AVE	180	2.3	H	34.1	3.4	34.5	45.5	54	-8.5
3611.8000	45.6	AVE	0	2.1	V	30.3	2.7	34.8	43.8	54	-10.2
4881.2700	42.6	AVE	180	3.6	V	32.5	3.1	34.8	43.4	54	-10.6
2928.7600	45.9	AVE	45	3.0	V	29.0	2.4	35.5	41.8	54	-12.2
3611.8000	42.6	AVE	90	1.6	H	30.3	2.7	34.8	40.8	54	-13.2
5857.5200	56.3	PEAK	0	2.4	V	34.1	3.4	34.5	59.3	74	-14.7
2928.7600	43.2	AVE	45	3.1	H	29.0	2.4	35.5	39.1	54	-14.9
2708.8500	39.6	AVE	180	1.5	V	29.0	2.4	35.5	35.5	54	-18.5
4881.2700	51.5	PEAK	180	3.6	V	32.5	3.1	34.8	52.3	74	-21.7
5857.5200	48.9	PEAK	180	2.3	H	34.1	3.4	34.5	51.9	74	-22.1
1805.9000	60.5	PEAK	90	3.0	V	25.3	1.9	36.3	51.4	74	-22.6
2708.8500	35.4	AVE	340	2.6	H	29.0	2.4	35.5	31.3	54	-22.7
1805.9000	59.3	PEAK	45	3.0	H	25.3	1.9	36.3	50.2	74	-23.8
4881.2700	47.8	PEAK	0	3.6	H	32.5	3.1	34.8	48.6	74	-25.4
3611.8000	48.2	PEAK	0	2.1	V	30.3	2.7	34.8	46.4	74	-27.6
2928.7600	49.2	PEAK	45	3.0	V	29.0	2.4	35.5	45.1	74	-28.9
2708.8500	47.8	PEAK	180	1.5	V	29.0	2.4	35.5	43.7	74	-30.3
3611.8000	45.4	PEAK	90	1.6	H	30.3	2.7	34.8	43.6	74	-30.4
2928.7600	47.5	PEAK	45	3.1	H	29.0	2.4	35.5	43.4	74	-30.6
2708.8500	45.4	PEAK	340	2.6	H	29.0	2.4	35.5	41.3	74	-32.7

Radiated Emissions Test Result Data, 3M (Continued)

INDICATED			TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15 Subpart C	
Frequency MHz	Ampl. dBμV/m	Comments	Angle Degree	Height Meter	Polar H/ V	Antenna dB	Cable DB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
900MHz – 10GHZ, High Channel											
5863.3000	50.4	AVE	45	1.7	V	34.1	3.4	34.5	53.4	54	-0.6
1954.4400	59.4	AVE	90	3.5	V	25.3	1.9	36.3	50.3	54	-3.7
903.9100	90.6	FUND/PEAK	180	3.5	H	23.6	3.8	28.4	89.6	94	-4.4
1807.8200	57.8	AVE	90	1.4	V	25.3	1.9	36.3	48.7	54	-5.3
1807.8200	57.7	AVE	220	4.0	H	25.3	1.9	36.3	48.6	54	-5.4
1954.4400	55.6	AVE	180	3.5	H	25.3	1.9	36.3	46.5	54	-7.5
5863.3000	43.5	AVE	180	1.3	H	34.1	3.4	34.5	46.5	54	-7.5
903.9100	87.3	FUND/PEAK	270	3.0	V	23.6	3.8	28.4	86.3	94	-7.7
4886.1000	45.3	AVE	0	1.8	V	32.5	3.1	34.8	46.1	54	-7.9
4886.1000	41.6	AVE	180	3.8	H	32.5	3.1	34.8	42.4	54	-11.6
5863.3000	57.5	PEAK	45	1.7	V	34.1	3.4	34.5	60.5	74	-13.5
2931.6600	41.9	AVE	90	3.4	V	29.0	2.4	35.5	37.8	54	-16.2
1954.4400	66.4	PEAK	90	3.5	V	25.3	1.9	36.3	57.3	74	-16.7
1954.4400	65.7	PEAK	180	3.5	H	25.3	1.9	36.3	56.6	74	-17.4
2711.7300	40.2	AVE	270	1.4	V	29.0	2.4	35.5	36.1	54	-17.9
2931.6600	39.5	AVE	340	1.2	H	29.0	2.4	35.5	35.4	54	-18.6
5863.3000	50.7	PEAK	180	1.3	H	34.1	3.4	34.5	53.7	74	-20.3
2711.7300	37.7	AVE	270	2.2	H	29.0	2.4	35.5	33.6	54	-20.4
4886.1000	49.7	PEAK	0	1.8	V	32.5	3.1	34.8	50.5	74	-23.5
1807.8200	59.4	PEAK	90	1.4	V	25.3	1.9	36.3	50.3	74	-23.7
1807.8200	58.3	PEAK	220	4.0	H	25.3	1.9	36.3	49.2	74	-24.8
4886.1000	47.3	PEAK	180	3.8	H	32.5	3.1	34.8	48.1	74	-25.9
2931.6600	49.4	PEAK	90	3.4	V	29.0	2.4	35.5	45.3	74	-28.7
2931.6600	47.3	PEAK	340	1.2	H	29.0	2.4	35.5	43.2	74	-30.8
2711.7300	47.0	PEAK	270	2.2	H	29.0	2.4	35.5	42.9	74	-31.1
2711.7300	46.9	PEAK	270	1.4	V	29.0	2.4	35.5	42.8	74	-31.2
Unintentional Emission, 30MHz to 1000MHz											
894.95	44.9		60	1.5	V	23.7	0.5	26.7	42.4	46	-3.6
898.94	41.99		180	1.6	V	23.7	0.9	26.7	39.9	46	-6.1
910.9500	31.49		90	2.5	V	23.2	1.8	26.7	29.8	46	-16.2
906.93	31.49		90	1.4	V	23.6	0.8	26.7	29.2	46	-16.8
169.29	37.39		30	1.8	V	13.0	0.5	25.7	25.1	43.5	-18.4
112.87	34.8		30	1.2	V	11.3	0.2	25.7	20.6	43.5	-22.9

§15.249(c) – BAND-EDGE TESTING

Standard Applicable

Requirements: FCC 15.249 (c), the emission power at the START and STOP frequencies shall be at least 50 dB below the level of the fundamental or to the general radiated emission limits in FCC 15.209, whichever is the lesser attenuation.

Test Procedure

With the EUT's antenna attached, the EUT's radiated emission power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
HP	Spectrum Analyzer	8565EC	3946A00131	2004-05-03

* **Statement of Traceability:** BACL attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	40%
ATM Pressure:	1013mbar

Testing was performed by Snell Leong on 2004-10-13.

Test Results

Refer to the attached plots.

