

October 12, 2010

Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD 12BC, Jinrun Building, Chegongmiao, Shennan Road, Shenzhen, China

Dear Guocai Wu,

Enclosed you will find your file copy of a Part 15 report (FCC ID: YROQ970).

For your reference, TCB will normally take another 5 days for reviewing the report. Approval will then be granted when no query is sorted.

Please contact me if you have any questions regarding the enclosed material.

Sincerely,

Shawn Xing

Assistant Manager

Enclosure



Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD

Application For Certification (FCC ID: YROQ970)

Computer Peripheral

Biry li

SZ10090282-2 Billy Li October 12, 2010

- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
- This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to copy or distribute this report. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results referenced from this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
- For Terms And Conditions of the services, it can be provided upon request.
- The evaluation data of the report will be kept for 3 years from the date of issuance.

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

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FCC ID: YROQ970

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MEASUREMENT / TECHNICAL REPORT

Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD – MODEL: Q970

FCC ID: YROQ970

October 12, 2010

This report concerns (check one:)	Original Grant	X Cla	ss II Change	·
Equipment Type: <u>JBP-Class B Computir</u>	ng Device Peripher	ral		
Deferred grant requested per 47 CFR 0.	457(d)(1)(ii)?	Yes	No	X
	If yes, def	er until:	date	
Company Name agrees to notify the Corof the intended date of announcement of that date.		date		
Transition Rules Request per 15.37?		Yes	No	X
Transition Rules Request per 15.37? If no, assumed Part 15, Subpart C for Edition] provision.	intentional radiato			
If no, assumed Part 15, Subpart C for	intentional radiato			

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FCC ID: YROQ970

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TRF No.: FCC 15C_PC_a

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List of attached file

Exhibit Type	File Description	Filename
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
Test Setup Photo	Conducted Emission	conducted photos.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
ID Label / Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Letter of Agency	agency.pdf
Cover Letter	Confidentiality Letter	request.pdf
Justification Letter	Justification Letter	justification.pdf

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FCC ID: YROQ970 iv

EXHIBIT 1 GENERAL DESCRIPTION

TRF No.: FCC 15C_PC_a

FCC ID: YROQ970

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1.0 **General Description**

1.1 Product Description

The equipment under test (EUT) is a Two-SIM-Card Mobile Phone. It supports GSM 850, GSM 900MHz, GSM 1800MHz and GSM 1900 four bands with GPRS function. At the same time, it with the Bluetooth function and Data transfer function. The EUT is powered by 3.7V rechargeable battery and it can be charged via USB cable by PC or by Input: A.C. 100-240V, 50/60Hz 0.1A, Output: D.C. 5V, 500mA adapter. The EUT is equipped with ports which can be connecting to the ancillary equipments such as AC adapter, USB adapter cable and headphone supplied by the manufacture.

1.2 Related Submittal(s) Grants

This is an application for certification of a computer peripheral (Data transfer function of the Mobile phone).

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1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2003). Radiated emission measurement was performed in Semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application.

1.4 Test Facility

The Semi-anechoic chamber and conducted measurement facility used to collect the radiated data and conducted data is **Interterk Testing Services Shenzhen Ltd. Kejiyuan Branch** and located at 6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC.

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EXHIBIT 2 SYSTEM TEST CONFIGURATION

TRF No.: FCC 15C_PC_a

FCC ID: YROQ970

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2.0 **System Test Configuration**

2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.4 (2003).

The EUT was powered by a 3.7V fully charged lithium battery during the testing.

For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. The step by step procedure for maximizing emissions led to the data reported in Exhibit 3.0.

The rear of unit shall be flushed with the rear of the table.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was placed on turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

The frequency range from 30MHz to 1GHz was searched for spurious emissions from the device. Only those emissions reported were detected. All other emissions were at least 20 dB below the applicable limits.

2.2 EUT Exercising Software

There was no special software to exercise the device.

2.3 Special Accessories

The device is tested with an USB shielded cable. They are required to market together with the device.

2.4 Equipment Modification

Any modifications installed previous to testing by Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch.

2.5 Measurement Uncertainty

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

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2.6 Support Equipment List and Description

This product was tested in the following configuration:

Refer List:

Description	Manufacturer	Model No.
Test PC	HP	2510A
Hard Disk	Smart.drive	HD3-SU2FW
USB Cable	Smart.drive	Length 155cm
1394 Cable	Smart.drive	Length 180cm
Mini SD card	Sandisk	1G(080730288507W)
USB Shielded Cable	G-TIDE	120cm
Adapter	G-TIDE	Model: CN-02B5-500 Input: A.C. 100-240V, 50/60Hz, 0.1A, Output: D.C. 5V, 500mA
Headphone	G-TIDE	120cm

All the items listed under section 2.0 of this report are

Confirmed by:

Shawn Xing Assistant Manager Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch Agent for Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD

Signature

October 12, 2010 Date

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

EXHIBIT 3

EMISSION RESULTS

TRF No.: FCC 15C_PC_a

FCC ID: YROQ970

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3.0 **Emission Results**

Data is included worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

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3.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

where $FS = Field Strength in dB_{\mu}V/m$

RA = Receiver Amplitude (including preamplifier) in $dB\mu V$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

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3.1 Field Strength Calculation (cont'd)

Example

Assume a receiver reading of $62.0dB_{\mu}V$ is obtained. The antenna factor of 7.4dB and cable factor of 1.6dB is added. The amplifier gain of 29dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0dB, and the resultant average factor was -10dB. The net field strength for comparison to the appropriate emission limit is $32dB_{\mu}V/m$. This value in $dB_{\mu}V/m$ was converted to its corresponding level in $\mu V/m$.

 $RA = 62.0dB\mu V$ AF = 7.4dBCF = 1.6dB

AG = 29.0dBPD = 0dB

AV = -10dB

 $FS = 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32dB\mu V/m$

Level in $\mu V/m = Common Antilogarithm [(32dB<math>\mu V/m)/20] = 39.8 \mu V/m$

TRF No.: FCC 15C_PC_a

FCC ID: YROQ970

3.2 Radiated Emission Configuration Photograph

Worst Case Radiated Emission At 41.640 MHz (Download Mode)

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos.pdf.

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

CC ID: YROQ970 11

3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgement: Passed by 6.9dB margin (Download Mode)

TEST PERSONNEL:
Birly Li
Signature
Cignataro
Billy Li Compliance Engineer
Typed / Printed Name
October 12, 2010
Date

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

Company: Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD

Date of Test: October 12, 2010

Model: Q970

Worst Case Operating Mode: Download (with Mini SD Card)

Table 1
Radiated Emissions

Polarization	Frequency	Reading	Pre-	Antenna	Net	Limit	Margin
	(MHz)	(dBµV)	Amp	Factor	at 3m	at 3m	(dB)
			Gain	(dB)	(dBµV/m)	(dBµV/m)	
			(dB)				
Horizontal	30.020	25.2	20.0	19.4	24.6	40.0	-15.4
Horizontal	36.000	27.5	20.0	15.8	23.3	40.0	-16.7
Horizontal	365.785	28.9	20.0	17.9	26.8	46.0	-19.2
Vertical	31.940	30.1	20.0	18.2	28.3	40.0	-11.7
Vertical	36.000	36.7	20.0	15.8	32.5	40.0	-7.5
Vertical	41.640	40.3	20.0	12.8	33.1	40.0	-6.9

NOTES: 1. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

- 2. Negative value in the margin column shows emission below limit.
- 3. All emissions below 1000MHz are below the QP limit and all emissions above 1000MHz are below the AV limit.
- 4. Peak detector was used when the frequency above 1000MHz and QP detector was used when the frequency below 1000MHz.
- 5. Uncertainty: ±4.8dB at a level of confidence of 95%.

Test Engineer: Billy Li

TRF No.: FCC 15C_PC_a

3.4 Conducted Emission Configuration Photograph

Worst Case Conducted Configuration at 9.482 MHz

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

TRF No.: FCC 15C_PC_a

FCC ID: YROQ970

3.5 Conducted Emission Data

Judgement: Passed by 5.0 dB margin

TEST PERSONNEL:

Birly Li

Signature

Billy Li, Compliance Engineer

Typed/Printed Name

October 12, 2010

Date

TRF No.: FCC 15C_PC_a
FCC ID: YROQ970

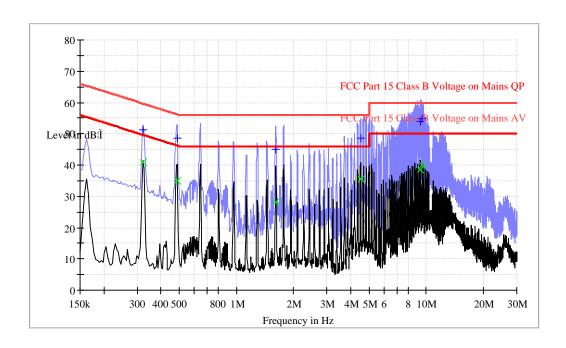
Company: Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD

Date of Test: October 12, 2010

Model: Q970

Worst Case Operating Mode: Download (with Mini SD Card), Mobile phone adapter

Conducted Emission Test - FCC



Result Table-QP

Frequency	QuasiPeak	Line	Corr.	Margin	Limit
(MHz)	(dB μ V)		(dB)	(dB)	(dB µ V)
0.322000	51.2	L1	9.6	8.5	59.7
0.486000	48.5	L1	9.6	7.7	56.2
1.614000	45.0	L1	9.7	11.0	56.0
4.510000	48.7	L1	9.7	7.3	56.0
9.330000	54.0	L1	9.8	6.0	60.0
9.482000	55.0	L1	9.8	5.0	60.0

Result Table-AV

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.322000	40.9	L1	9.6	8.8	49.7
0.486000	34.8	L1	9.6	11.4	46.2
1.614000	28.1	L1	9.7	17.9	46.0
4.510000	35.7	L1	9.7	10.3	46.0
9.330000	38.6	L1	9.8	11.4	50.0
9.482000	40.0	L1	9.8	10.0	50.0

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

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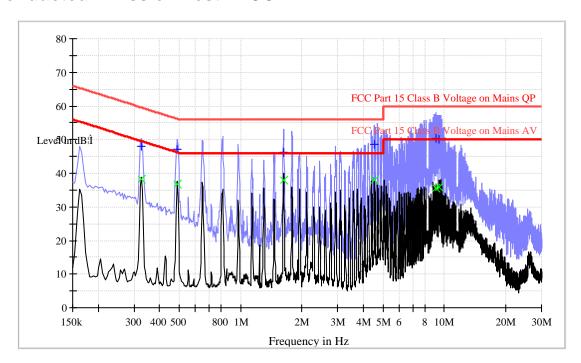
Company: Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD

Date of Test: October 12, 2010

Model: Q970

Worst Case Operating Mode: Download (with Mini SD Card), Mobile phone adapter

Conducted Emission Test - FCC



Result Table-QP

Frequency	QuasiPeak	Line	Corr.	Margin	Limit
(MHz)	(dB μ V)		(dB)	(dB)	(dB µ V)
0.326000	48.0	N	9.6	11.6	59.6
0.490000	47.1	N	9.6	9.1	56.2
1.626000	46.4	N	9.7	9.6	56.0
4.554000	48.5	N	9.8	7.5	56.0
9.110000	50.3	N	9.9	9.7	60.0
9.426000	50.0	N	9.9	10.0	60.0

Result Table-AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.326000	38.3	N	9.6	11.3	49.6
0.490000	36.8	N	9.6	9.4	46.2
1.626000	38.0	N	9.7	8.0	46.0
4.554000	38.0	N	9.8	8.0	46.0
9.110000	35.5	N	9.9	14.5	50.0
9.426000	35.7	N	9.9	14.3	50.0

Test Engineer: Billy Li

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

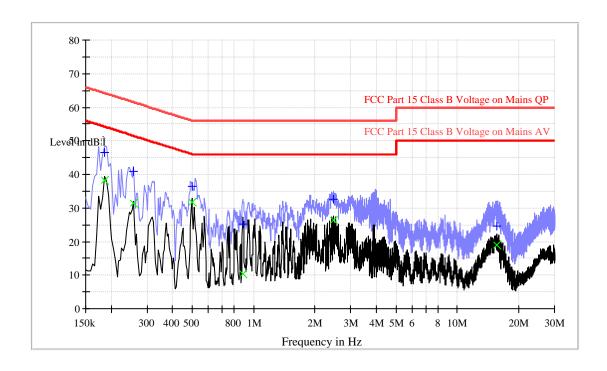
Company: Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD

Date of Test: October 12, 2010

Model: Q970

Worst Case Operating Mode: Download (with Mini SD Card), PC adapter

Conducted Emission Test - FCC



Result Table-QP

Frequency	QuasiPeak	Line	Corr.	Margin	Limit
(MHz)	(dB μ V)		(dB)	(dB)	(dB µ V)
0.186000	46.5	L1	9.6	17.7	64.2
0.258000	40.9	L1	9.6	20.6	61.5
0.498000	36.6	L1	9.6	19.4	56.0
0.886000	25.3	L1	9.7	30.7	56.0
2.470000	32.7	L1	9.7	23.3	56.0
15.650000	24.7	L1	10.0	35.3	60.0

Result Table-AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.186000	38.1	L1	9.6	16.1	54.2
0.258000	31.5	L1	9.6	20.0	51.5
0.498000	31.7	L1	9.6	14.3	46.0
0.886000	10.5	L1	9.7	35.5	46.0
2.470000	26.5	L1	9.7	19.5	46.0
15.650000	19.0	L1	10.0	31.0	50.0

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

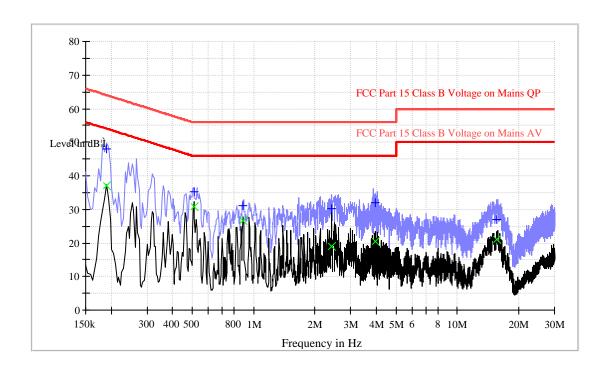
Company: Z.T.S. INTERNATIONAL INDUSTRIAL CO., LTD

Date of Test: October 12, 2010

Model: Q970

Worst Case Operating Mode: Download (with Mini SD Card), PC adapter

Conducted Emission Test - FCC



Result Table-QP

Frequency (MHz)	y	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.19000	0	48.1	N	9.6	15.9	64.0
0.51000	0	35.3	Ν	9.6	20.7	56.0
0.89000	0	31.2	Ν	9.6	24.8	56.0
2.40600	0	30.3	Ν	9.7	25.7	56.0
3.96200	0	32.0	Ν	9.8	24.0	56.0
15.61800	0	26.8	Ν	10.1	33.2	60.0

Result Table-AV

I	Frequency	Average	Line	Corr.	Margin	Limit
	(MHz)	(dB µ V)		(dB)	(dB)	(dB µ V)
Ī	0.190000	36.9	N	9.6	17.1	54.0
Ī	0.510000	30.9	N	9.6	15.1	46.0
Ī	0.890000	26.7	N	9.6	19.3	46.0
Ī	2.406000	18.9	N	9.7	27.1	46.0
Ī	3.962000	20.4	N	9.8	25.6	46.0
I	15.618000	20.9	N	10.1	29.1	50.0

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

EXHIBIT 4

EQUIPMENT PHOTOGRAPHS

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

CC ID: YROQ970 20

4.0 **Equipment Photographs**

For electronic filing, photographs of the tested EUT are saved with filename: external photos.pdf and internal photos.pdf.

TRF No.: FCC 15C_PC_a

FCC ID: YROQ970 21

EXHIBIT 5 PRODUCT LABELLING

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

CC ID: YROQ970 22

5.0 **Product Labelling**

For electronics filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

TRF No.: FCC 15C_PC_a

FCC ID: YROQ970

EXHIBIT 6

TECHNICAL SPECIFICATIONS

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

CC ID: YROQ970 24

6.0 <u>Technical Specifications</u>

For electronic filing, the block diagram of the tested EUT is saved with filename: block.pdf.

TRF No.: FCC 15C_PC_a

FCC ID: YROQ970 25

EXHIBIT 7 INSTRUCTION MANUAL

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

CC ID: YROQ970 26

7.0 **Instruction Manual**

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold / leased in the United States.

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

CC ID: YROQ970 27

EXHIBIT 8

MISCELLANEOUS INFORMATION

TRF No.: FCC 15C_PC_a

FCC ID: YROQ970

8.0 <u>Miscellaneous Information</u>

This miscellaneous information includes emission measuring procedure.

TRF No.: FCC 15C_PC_a

FCC ID: YROQ970

8.1 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of computer peripheral operating under Part 15, Subpart B rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4 – 2003.

The computer peripheral equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately one meter in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The antenna height and polarization are varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions from the frequency band 30MHz to 1GHz is in QP mode and RBW setting is 120kHz. Detector function for radiated emissions for frequency band above 1GHz, both peak and AV detectors shall be used to measure the emissions and the peak limit is 20dB above the maximum permitted average emission limit and RBW setting is 1MHz. Detector function for conducted emissions are in QP & AV mode and IFBW setting is 9kHz from the frequency band 150kHz to 30MHz.

For radiated emission, the frequency range scanned is 30MHz to 1GHz. For line-conducted emissions, the range scanned is 150kHz to 30MHz.

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8.1 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

Conducted measurements are made as described in ANSI C63.4 – 2003.

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EXHIBIT 9

TEST EQUIPMENT LIST

TRF No.: FCC 15C_PC_a FCC ID: YROQ970

CC ID: YROQ970 32

9.0 <u>Test Equipment List</u>

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-03	BiConiLog Antenna	ETS	3142C	00066460	25-Nov-09	25-May-11
SZ185-01	EMI Receiver	R&S	ESCI	100547	08-Mar-10	08-Mar-11
SZ061-08	Horn Antenna	ETS	3115	00092346	15-Mar-10	15-Sep-11
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	18-Mar-10	18-Mar-11
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	18-Mar-10	18-Mar-11
SZ188-01	Anechoic Chamber	ETS	RFD-F/A- 100	4102	09-Jan-10	09-Jan-11
SZ062-06	RF Cable	RADIALL	0.04- 26.5GHz		16-Sep-10	16-Sep-11
SZ062-02	RF Cable	RADIALL	RG 213U		19-Apr-10	19-Oct-10
SZ187-01	Two-Line V- Network	R&S	ENV216	100072	23-Nov-09	23-Nov-10
SZ187-02	Two-Line V- Network	R&S	ENV216	100073	23-Nov-09	23-Nov-10
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	23-Nov-09	23-Nov-10
SZ188-03	Shielding Room	ETS	RFD-100	4100	16-Sep-10	16-Sep-13

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