



TEST REPORT

For

ITALCOM GROUP

1728 Coral Way, Coral Gables, Miami, Florida 518048, USA

FCC PART 15B, CLASS B

FCC ID: YPVITALCOMXYN

Report Type: **Product Type:** Mobile Phone Original Report polo xue **Test Engineer:** Polo Xue **Report Number:** RSZ110708001-00 **Report Date:** 2011-07-27 Merry Zhao **Reviewed By:** EMC Engineer Bay Area Compliance Laboratories Corp. (Shenzhen) **Test Laboratory:** 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008

Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP*, or any agency of the Federal Government.

^{*} This report contains data that are not covered by the NVLAP accreditation and are marked with an asterisk "★" (Rev.2)

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *ITALCOM GROUP*'s product, model number: *XYN (FCC ID: YPVITALCOMXYN)* (the "EUT") in this report is a *Mobile phone*, which measures approximately: 10.1 cm (L) x 6.2 cm (W) x 0.98 cm (H), rated input voltage: DC 3.7 V battery or DC 5V from adapter or from USB port.

Adapter Information: Input: 100-240VAC Output: 5.0V 500mAh

* All measurement and test data in this report was gathered from production sample serial number: 1107023 (Assigned by BACL, Shenzhen). The EUT was received on 2011-07-08.

Objective

This Type approval report is prepared on behalf of *ITALCOM GROUP* in accordance with Part 2, Subpart J, Part 15, Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine compliance with FCC Part 15B, Class B.

Related Submittal(s)/Grant(s)

FCC Part 22H&24E PCE submission with FCC ID: YPVITALCOMXYN.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at http://ts.nist.gov/Standards/scopes/2007070.htm.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a manufacturer testing fashion.

EUT Exercise Software

N/A

Equipment Modifications

No modification was made to the unit tested.

Host System Configuration List and Details

Manufacturer	Device Name	Model	Serial Number
DELL	Motherboard	OWC297	CN-OWC297-70821-566-02BR
DELL	Power	NPS-250KB D	CN-0H2678-17972-56E8NBM
Seagate	Hard Disk	ST340014A	5JXK3NAD
DELL	3.5' Floppy	N/A	CN-0N8893-69802-54Q-02OZ
Lite-ON	CD-Rom	LTN-489S	N/A
Intel	CPU	Celeron D-2533	N/A
ProMOS	Memory	V826632K24SATG-C0	0525-K1933700
Intel	Ethernet	PRO 10/100 VE	N/A

Local Support Equipment List and Details

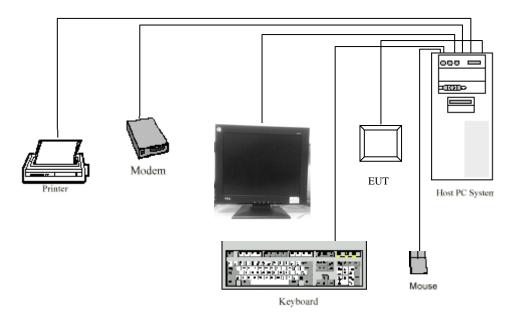
Manufacturer	Description	Model	Serial Number	
DELL	PC	1#	N/A	
DELL	Keyboard 1#	L100	CNORH656658907BL04TY	
DELL	Mouse 1#	MOC5UO	G1B0096D	
DELL	LCD 1#	E178WFPC	CN-OWY564-64180-7C4-2SQH	
НР	Laser Jet5L	C3941A	JPTVOB2337	
SAST	Modem	AEM-2100	0293	

External I/O Cable

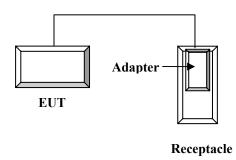
Cable Description	Length (m)	From/Port	То
Shielded Detachable K/B Cable	1.5	K/B Port/Host	K/B
Shielded Detachable Mouse Cable	1.5	Mouse Port/Host	Mouse
Shielded Detachable Printer Cable	1.2	Parallel Port/Host	Printer
Shielded Detachable Serial Cable	1.2	Serial Port/Host	Modem
Shielded Detachable VGA Cable	1.5	VGA Port/Host	Monitor
Shielded Undetachable AC/DC Cable	1.01	Adapter	EUT
Shielded Undetachable Data Cable	0.98	EUT	Host PC

Configuration of Test Setup

Downloading:

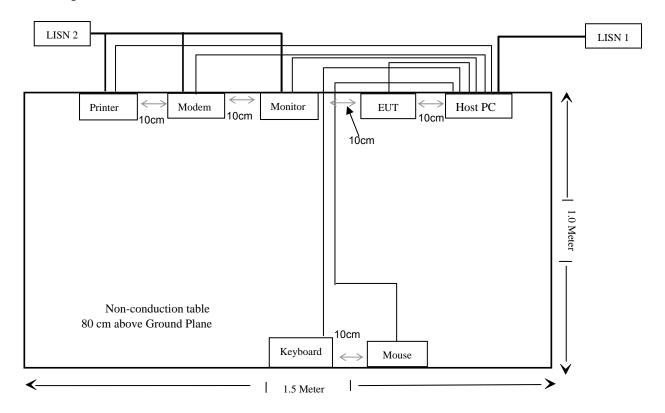


Multimedia Playing & Charging:

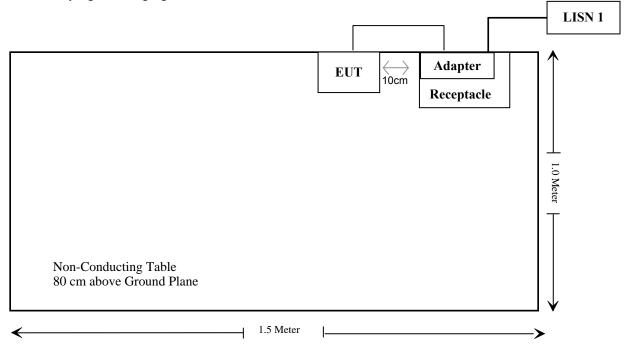


Block Diagram of Test Setup

Downloading:



Multimedia Playing & Charging:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Spuripus Emissions	Compliance

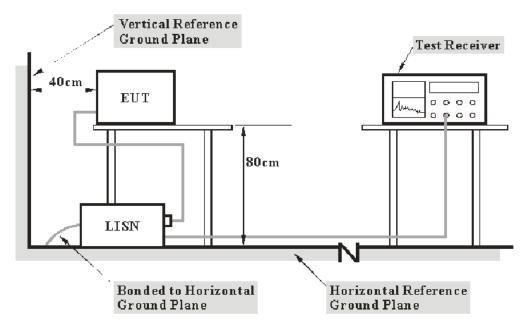
FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is ± 2.4 dB.(k=2, 95% level of confidence)

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.107 Class B limits.

The spacing between the peripherals was 10 cm.

The host PC was connected to a 120 VAC/60 Hz power source.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245/006	2011-03-03	2012-03-02
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2011-03-09	2012-03-08

^{*} Statement of Traceability: Bay Area Compliance Laboratory Corp. attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the host PC was connected to the outlet of the first LISN and the other relevant support equipments were connected to the outlet of the second LISN for PC power supply. And the adapter was connected to the outlet of the LISN for adapter power supply.

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

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the <u>FCC Part 15.107</u>, with the worst margin reading of:

Downloading: 8.27 dB at **1.580 MHz** in the **Neutral** conducted mode

Multimedia Playing & Charging: 16.22 dB at 0.450 MHz in the Neutral conducted mode

Test Data

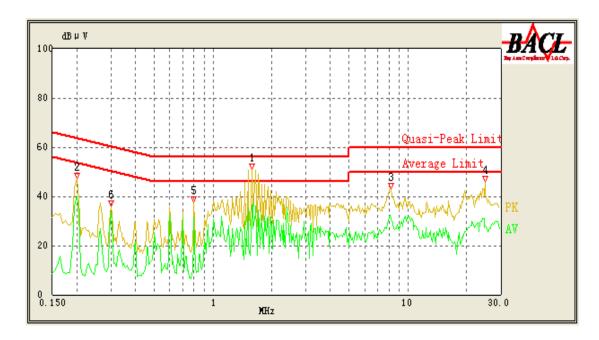
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

The testing was performed by Polo Xue on 2011-08-01.

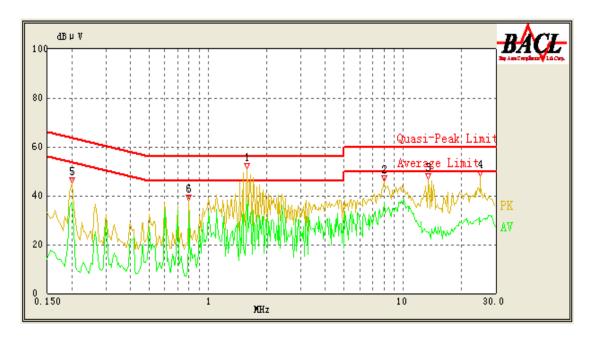
Test Mode: Downloading

AC 120V/60 Hz, Line:



Conducted Emissions			FC	C Part 15.107, C	lass B
Frequency (MHz)	Corrected Result (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/ QP/Ave.)
1.585	35.56	10.10	46.00	10.44	Ave.
1.580	42.91	10.10	56.00	13.09	QP
0.200	40.29	10.10	54.57	14.28	Ave.
0.800	31.53	10.10	46.00	14.47	Ave.
25.015	43.84	10.10	60.00	16.16	QP
0.300	33.72	10.10	51.71	17.99	Ave.
8.195	30.89	10.10	50.00	19.11	Ave.
0.200	43.89	10.10	64.57	20.68	QP
25.020	28.09	10.10	50.00	21.91	Ave.
8.195	36.81	10.10	60.00	23.19	QP
0.300	34.44	10.10	61.71	27.27	QP
0.800	27.76	10.10	56.00	28.24	QP

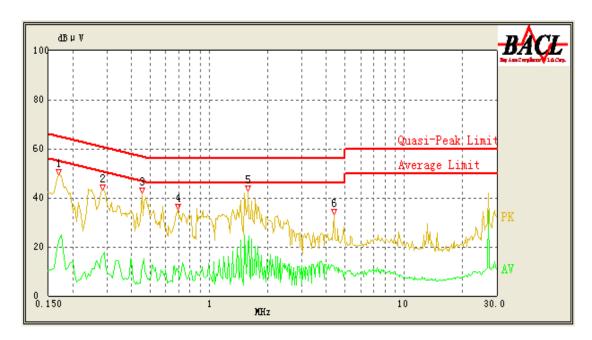
AC 120V/60 Hz, Neutral



Conducted Emissions			FC	C Part 15.107, C	lass B
Frequency (MHz)	Corrected Result (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/ QP/Ave.)
1.580	47.73	10.10	56.00	8.27	QP
1.580	34.77	10.10	46.00	11.23	Ave.
8.015	37.43	10.10	50.00	12.57	Ave.
0.800	33.21	10.10	46.00	12.79	Ave.
0.200	37.29	10.10	54.57	17.28	Ave.
25.020	41.43	10.10	60.00	18.57	QP
8.010	40.03	10.10	60.00	19.97	QP
25.020	29.84	10.10	50.00	20.16	Ave.
0.800	35.21	10.10	56.00	20.79	QP
0.200	41.27	10.10	64.57	23.30	QP
13.440	24.59	10.10	50.00	25.41	Ave.
13.470	22.04	10.10	60.00	37.96	QP

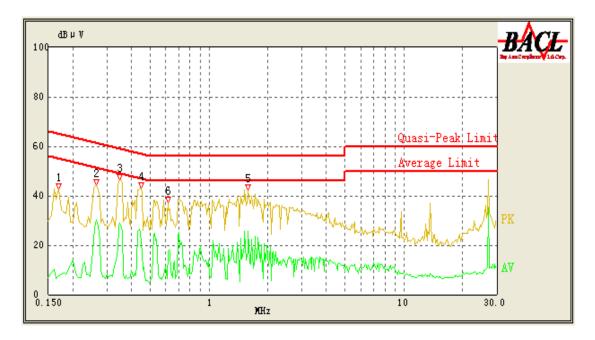
Test Mode: Multimedia Playing and charging

AC 120V/60 Hz, Line



Conducted Emissions			FC	C Part 15.107, C	lass B
Frequency (MHz)	Corrected Result (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/ QP/Ave.)
1.590	37.22	10.10	56.00	18.78	QP
1.595	24.19	10.10	46.00	21.81	Ave.
0.170	22.43	10.10	55.43	33.00	Ave.
4.370	11.83	10.10	46.00	34.17	Ave.
0.455	12.88	10.10	47.29	34.41	Ave.
0.690	11.04	10.10	46.00	34.96	Ave.
0.285	16.43	10.10	52.14	35.71	Ave.
0.455	19.58	10.10	57.29	37.71	QP
0.690	16.68	10.10	56.00	39.32	QP
4.370	16.66	10.10	56.00	39.34	QP
0.285	22.36	10.10	62.14	39.78	QP
0.170	25.64	10.10	65.43	39.79	QP

AC 120V/60 Hz, Neutral



Co	onducted Emissio	ons	FC	C Part 15.107, C	lass B
Frequency (MHz)	Corrected Result (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Remark (PK/ QP/Ave.)
0.450	41.21	10.10	57.43	16.22	QP
1.590	37.34	10.10	56.00	18.66	QP
0.350	40.97	10.10	60.29	19.32	QP
1.590	25.51	10.10	46.00	20.49	Ave.
0.350	28.99	10.10	50.29	21.30	Ave.
0.615	34.33	10.10	56.00	21.67	QP
0.445	25.25	10.10	47.57	22.32	Ave.
0.265	30.10	10.10	52.71	22.61	Ave.
0.265	38.76	10.10	62.71	23.95	QP
0.615	17.72	10.10	46.00	28.28	Ave.
0.170	26.56	10.10	65.43	38.87	QP
0.170	7.86	10.10	55.43	47.57	Ave.

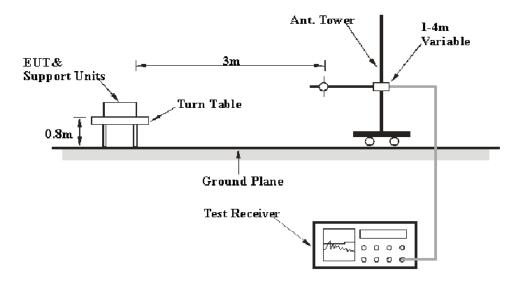
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

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 Bay Area Compliance Laboratories Corp. (Shenzhen) is ± 4.0 dB. (k=2, 95% level of confidence)

EUT Setup



The radiated emission tests were performed in the 3 meters chamber B test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC Part 15.109 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The Host PC was connected to 120 VAC/60 Hz power source or adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 1000 MHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency	RB/W	VB/W	IF B/W	Detecttor
30 MHz-1 GHz	100 kHz	300 kHz	120 kHz	Ouasi-peak

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447E	1937A01046	2010-08-02	2011-08-02
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2010-11-11	2011-11-10
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2011-07-05	2012-07-04

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp (Shenzhen). attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

For the radiated emissions test, the Host PC or adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode from 30 MHz to 1 GHz.

Corrected Amplitude & Margin Calculation

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

Corrected Amplitude = Meter Reading + Antenna Loss + Cable Loss - Amplifier Gain

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

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.109, Class B, with the worst margin reading of:

2.1 dB at 62.938500 MHz in the Vertical polarization for downloading mode13.6 dB at 377.483750 MHz in the Horizontal polarization for Multimedia playing & charging mode

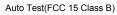
Test Data

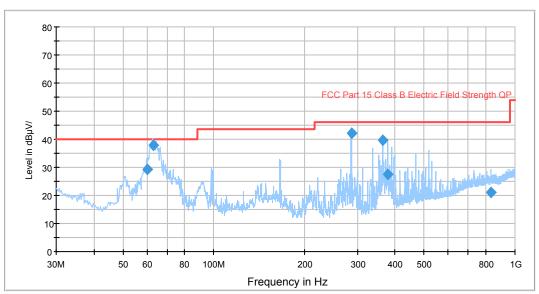
Environmental Conditions

Temperature:	25 °C		
Relative Humidity:	48 %		
ATM Pressure:	100.0 kPa		

The testing was performed by Polo Xue on 2011-07-20.

Test Mode: Downloading

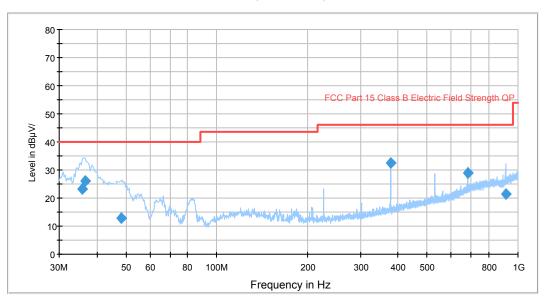




Frequency (MHz)	Corrected Amplitude (dBµV/m)	Test Antenna		Turntable	Correction	Limit	Mangin
		Height (cm)	Polarity (H/V)	Position (degree)	Factor (dB)	(dBµV/m)	Margin (dB)
62.938500	37.9	100.0	V	235.0	-18.6	40.0	2.1*
285.998750	42.1	99.0	Н	129.0	-12.7	46.0	3.9*
363.998000	39.6	99.0	Н	0.0	-10.8	46.0	6.4
60.054250	29.1	148.0	V	223.0	-18.7	40.0	10.9
377.716000	27.5	99.0	Н	8.0	-10.4	46.0	18.5
833.167000	21.0	383.0	Н	136.0	-1.3	46.0	25.0

Test Mode: Multimedia Playing & Charging

Auto Test(FCC 15 Class B)



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Test Antenna		Turntable	Correction	Limit	Margin
		Height (cm)	Polarity (H/V)	Position (degree)	Factor (dB)	(dBµV/m)	(dB)
377.483750	32.4	102.0	Н	124.0	-10.5	46.0	13.6
36.493750	26.0	102.0	V	24.0	-9.8	40.0	14.0
35.827500	23.4	138.0	V	75.0	-9.4	40.0	16.6
679.474250	28.8	101.0	Н	0.0	-3.8	46.0	17.2
908.898000	21.4	217.0	Н	0.0	-0.5	46.0	24.6
48.298750	12.7	122.0	V	206.0	-16.6	40.0	27.3

***** END OF REPORT *****