

Antenna Report

Project Name :	Converse	Date:	03/04/2008
Project Manager:	Charles_Wu	Author	Annie_Chen

Countersign:

Annie_Chen _____

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FCC Antenna Pre-test Report

CONTENTS

Embedded GSM, WiFi and Bluetooth Antenna Test Results P.3

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Embedded GSM, WiFi and BT Antenna

1. Overview

The document is the specification of the embedded GSM, WiFi and BT antenna for phone applications.

1.1 Denotations

dBi: Decibel relative isotropic antenna

Tx: Transmit frequency

Rx: Receive frequency

GSM: Global Service for Mobile communication

PCS: Personal Communication System

Peak Gain: The peak value of the antenna gain

1.2 Antenna Type

GSM : PIFA type

WiFi : PIFA type

BT : Monopole type

1.3 Antenna Brand

GSM : HTC

WiFi : HTC

BT : HTC

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2 Gain measurements

2.1 GSM 3D Antenna Gain Measurement Result

Frequency (MHz)	880	960	1710	1880
Peak Gain (dBi)	-0.42	-3.51	-1.21	0.44

2.2 WiFi 3D Antenna Gain Measurement Result

Frequency (MHz)	2412	2437	2484
Peak Gain (dBi)	1.26	1.79	1.99

2.3 Bluetooth 3D Antenna Gain Measurement Result

Frequency (MHz)	2402	2441	2480
Peak Gain (dBi)	0.82	1.33	1.17

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2.4 GSM EIRP and EIS Measurement Result (Open scenario)

	Channel	128	189	251
GSM 850	EIRP (dBm)	31.11	31.19	30.22
	Sensitivity (dBm)	-107.09	-105.99	-105.87
	Channel	512	661	810
PCS 1900	EIRP (dBm)	30.99	31.54	31.72
	Sensitivity (dBm)	-109.28	-109.68	-108.77

2.5 WiFi TRP and TIS Measurement Result (Close scenario, 11Mbps)

	Channel	1	6	11
	TRP (dBm)	15.84	16.37	16.54
	TIS (dBm)	-80.94	-81.12	-81.35

2.6 Bluetooth EIRP and EIS Measurement Result (Close scenario)

	Channel	0	39	78
	EIRP (dBm)	0.90	1.43	1.67
	Sensitivity (dBm)	-85.2	-86	-86.3

3 Antenna Materials

The antenna can not have the materials of plumbum (Pb), halogen and mercury (Hg).

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