







ISO/IEC17025 Accredited Lab.

Report No: FCC 0812096-01 File reference No: 2008-12-22

Applicant: ShenZhen Longhorn Technology Co.,Ltd

Product: Bluetooth handsfree car kit

Brand Name: Longhorn

Model No: BT410

Test Standards: FCC Part 15 Subpart B: 2006

Test result:

It is herewith confirmed and found to comply with the requirements

set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: Dec22. 2008

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996

Report No: 0812096-01 Page 2 of 25

Date: 2008-12-22



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC-Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

Page 3 of 25

Report No: 0812096-01

Date: 2008-12-22



Test Report Conclusion Content

1.0	General Details	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Test Uncertainty	4
1.5	Submitted Sample	4
1.6	Test Duration	4
2.0	List of Measurement Equipment	5
2.1	Conducted Emission Test.	5
2.2	Radiated electromagnetic disturbance test	5
2.3	Auxiliary Equipment	5
3.0	Technical Details	6
3.1	Investigations Requested	6
3.2	Test Standards.	6
4.0	Power line Conducted Emission Test.	7
5.0	Radiated Disturbance Test	11
6.0	FCC ID Label	17
7.0	Photo of testing	18

Date: 2008-12-22



1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

Address: East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

1.2 Applicant Details

Applicant: ShenZhen Longhorn Technology Co., Ltd

Address: Longhorn Hi-Tech Estate, Gongyeyuan Rd., Dalang str, Longhua, Baoan District,

Shenzhen, 518109, China

Telephone: +86-755-28032222 Fax: +86-755-28032666

1.3 Description of EUT

Product: Bluetooth handsfree car kit

Manufacturer: ShenZhen Longhorn Technology Co., Ltd

Address: Longhorn Hi-Tech Estate, Gongyeyuan Rd., Dalang str, Longhua, Baoan

District, Shenzhen, 518109, China

Brand Name: Longhorn
Model Number: BT410
Additional Model BT400

Number:

Rating: Input: DC 3.7V

1.4 Submitted Sample: 2 Sample

1.5 Test Duration: 2008-12-15 to 2008-12-22

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by

Print Name: Terry Tang

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Page 5 of 25

Report No: 0812096-01

Date: 2008-12-22



2.0 List of Measurement Equipment

2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2008.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
LISN	NTFM8132	8132137	SCHWARZBECK	2008.2.24	1Year
LISN	NTFM8134	8134109	SCHWARZBECK	2008.2.24	1Year
LISN	NTFM8136	8136102	SCHWARZBECK	2008.2.24	1Year

2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2008.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer(with					
Tracking Generator)	MS2661C	MT72089	ANRITSU	2008.2.23	1Year
Amplifier	MH648A	M20494	ANRITSU	2008.2.24	1Year
Bilog Antenna	CBL6101C	2576	CHASE	2008.2.23	1Year

2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
				Data cable of	
				2m length	
Keyboard	KB-0225	1211815	IBM	unshielded	FCC DOC
				Data cable of	
				2m length	
				unshielded	
				and 1.8m length	
Printer	BOISB-027-00	CNFG029476	EPSON	AC Mains cable	DOC
				Data cable of	
				1.5m length	
				unshielded and	
				1.8m length AC	
Monitor	6331-4CN	23-DNWX3	IBM	Mains cable	FCC ID

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Page 6 of 25

Report No: 0812096-01

Date: 2008-12-22

				1.8m length			
PC	8434		IBM	AC Mains cable	FCC DOC		
				Data cable of			
Mouse	OM860XC	HM0509	BIGCOW	1.5m length	FCC DOC		

3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

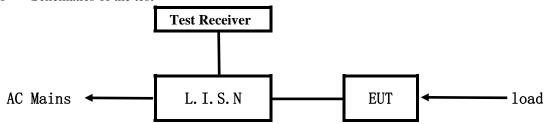
FCC Part 15 Subpart B: 2006

Date: 2008-12-22



4.0 Conducted Power line Test

4.1 Schematics of the test

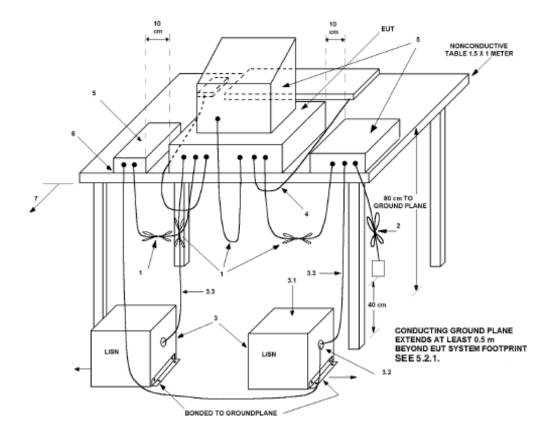


EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Block diagram of Test setup



The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Page 8 of 25

Report No: 0812096-01

Date: 2008-12-22



4.3 Power line conducted Emission Limit

Fragueray (MHz)	Class A Li	mits dB(μV)	Class B Limits dB(μV)		
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.00	66.00	66.00~56.00*	56.00~46.00*	
$0.50 \sim 5.00$	73.00	60.00	56.00	46.00	
5.00 ~ 30.00	73.00	60.00	60.00	50.00	

Notes:

- 1. *decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Date: 2008-12-22

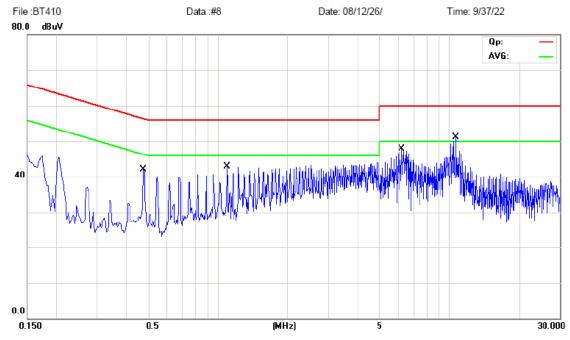
Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connected to PC
Working Voltage: 120V~ 60Hz
Model: BT410

Model: BT410 **Results: Pass**

Please refer to following diagram for individual

Conducted Emission Measurement



Eraguanav		Reading	Limit			
Frequency (MHz)	Live	e Neutral		al	(dB µ V)	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.4774			40.45	39.35	56.38	46.38
1.0950			32.34	31.44	56.00	46.00
6.2376		-	32.78	25.78	60.00	50.00
10.7157			50.59	47.79	60.00	50.00

Date: 2008-12-22

Results:

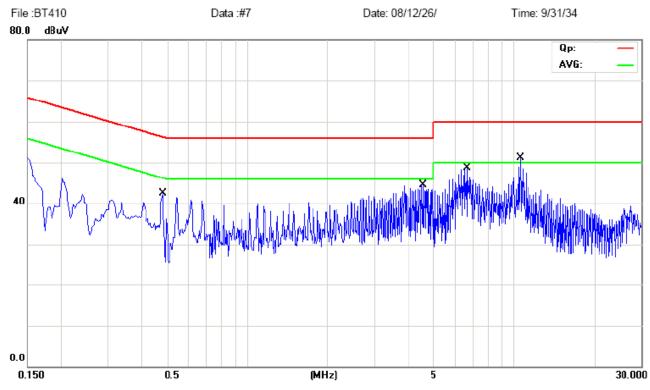


EUT set Condition: Connected to PC
Working Voltage: 120V~ 60Hz
Model: BT410

Please refer to following diagram for individual

Pass

Conducted Emission Measurement



Fraguanay		Reading	Limit			
Frequency	Live	;	Neutral		(dB µ V)	
(MHz)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.4768	39.05	38.95			56.39	46.39
4.5180	39.71	37.51			56.00	46.00
6.6936	34.99	24.79			60.00	50.00
10.5885	33.39	24.79			60.00	50.00

The report refers only to the sample tested and does not apply to the bulk.

Page 11 of 25

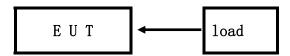
Report No: 0812096-01

Date: 2008-12-22



5.0 Radiated Disturbance Test

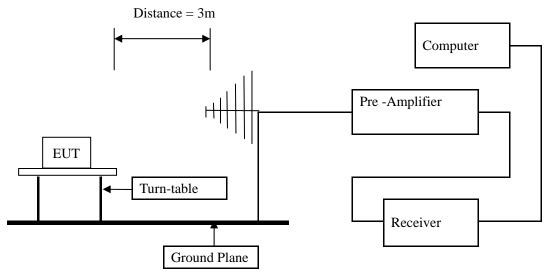
5.1 Schematics of the test



5.2 Test Method and test Procedure:

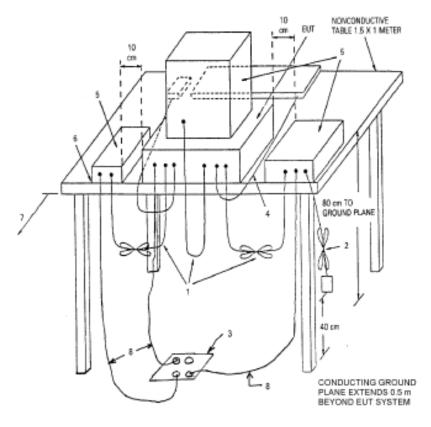
The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak 0values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

Block diagram of Test setup



Date: 2008-12-22





5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

5.4 Test result

The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Date: 2008-12-22

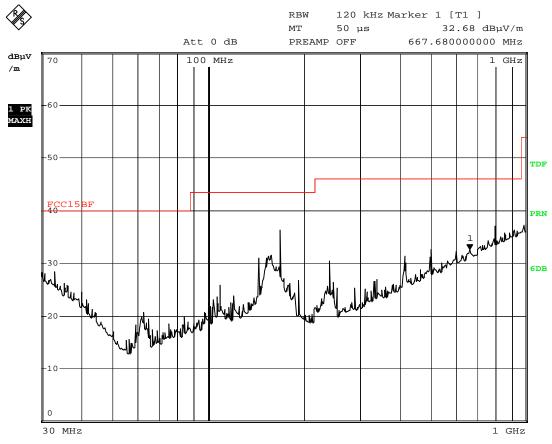
A: Radiated Disturbance In Horizontal (30MHz----1000MHz)

EUT set Condition: Connected to PC

Level: Class B
Model: BT410
Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 22.DEC.2008 16:00:37

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
168.00	36.29	Н	43.50
240.00	30.47	Н	46.00
415.48	31.26	Н	46.00

The report refers only to the sample tested and does not apply to the bulk.

Page 14 of 25

Report No: 0812096-01

Date: 2008-12-22



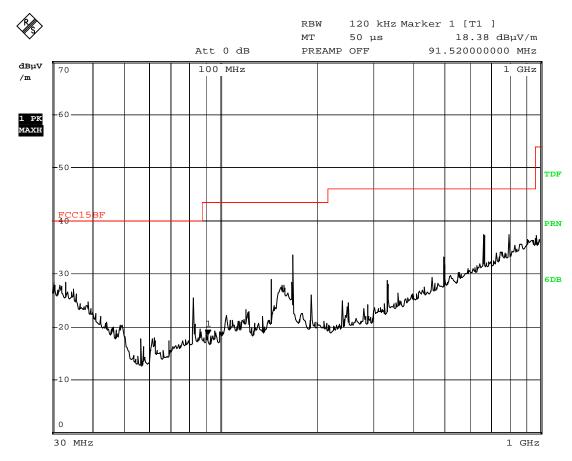
B: Radiated Disturbance In Vertical (30MHz----1000MHz)

EUT set Condition: Connected to PC

Level: Class B
Model: BT410
Results: PASS

Please refer to following diagram for individual

Picture of the test

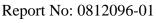


Date: 22.DEC.2008 15:58:14

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
82.16	25.46	V	40.00
168.00	33.61	V	43.50
666.92	37.45	V	46.00

The report refers only to the sample tested and does not apply to the bulk.

1 GHz



Date: 2008-12-22

C: Radiated Disturbance In Horizontal (30MHz----1000MHz)

EUT set Condition: Connected to PC

Level: Class B
Model: BT400
Results: PASS

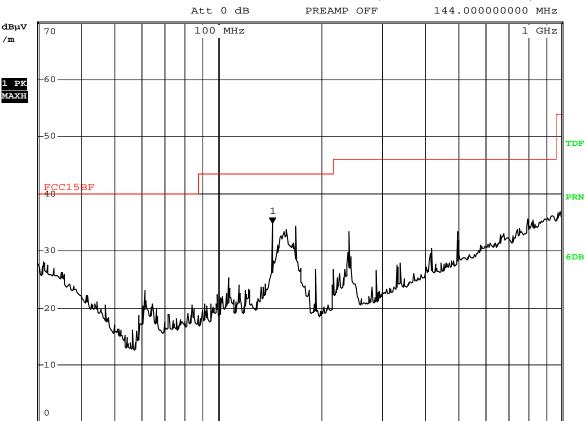
Please refer to following diagram for individual

Picture of the test



RBW 120 kHz Marker 1 [T1]

MT 50 μs 34.74 dBμV/m



Date: 22.DEC.2008 16:13:09

30 MHz

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
144.00	34.74	Н	46.00
168.00	34.32	Н	46.00
240.00	33.39	Н	46.00

The report refers only to the sample tested and does not apply to the bulk.

Date: 2008-12-22



D: Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Connected to PC

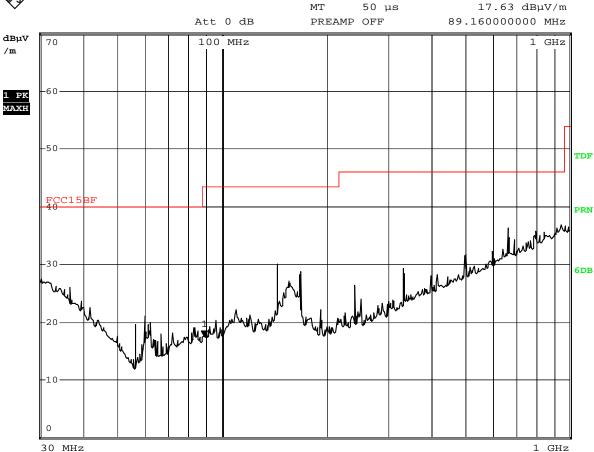
Level:Class BModel:BT400Results:PASS

Please refer to following diagram for individual

Picture of the test

%

RBW 120 kHz Marker 1 [T1]



Date: 22.DEC.2008 16:10:09

Frequency (MHz)	Level@3m ($dB\mu V/m$)	Antenna Polarity	Limit@3m ($dB\mu V/m$)
144.00	30.01	V	43.50
333.40	29.24	V	46.00
666.96	36.23	V	46.00

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Page 17 of 25

Report No: 0812096-01

Date: 2008-12-22



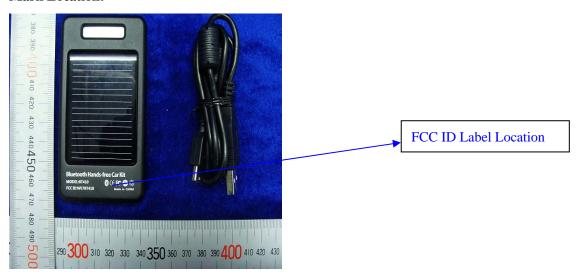
6.0 FCC ID Label

FCC ID: WE7BT410

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



Page 18 of 25

Report No: 0812096-01

Date: 2008-12-22



7.0 Photo of testing

7.1 Conducted test View-



Page 19 of 25

Report No: 0812096-01 Date: 2008-12-22



7.2 Radiated emission test view--



Date: 2008-12-22



7.3 Photo for the EUT

Front View:(Model:BT410)



Back View(Model:BT410)



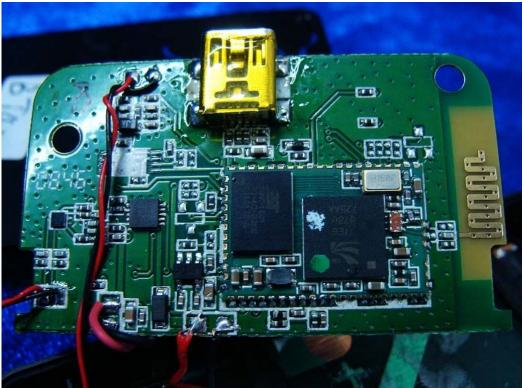
The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Date: 2008-12-22







The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Page 22 of 25

Report No: 0812096-01

Date: 2008-12-22



Inside View(Model:BT410)



Date: 2008-12-22







The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Date: 2008-12-22







The report refers only to the sample tested and does not apply to the bulk.

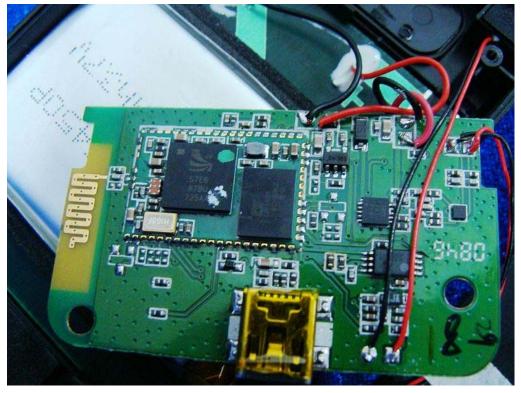
This report is issued in confidence to the client and it will be strictly treated as such by the Shenzhen Timeway Technology Consulting Co., Ltd. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the Shenzhen Timeway Technology Consulting co., Ltd to his customer. Supplier or others persons directly concerned. Shenzhen Timeway Technology Consulting co., Ltd will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

Page 25 of 25

Report No: 0812096-01

Date: 2008-12-22





-End of the report-