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CNASL1225

MPE TEST REPORT

FCC Per 47 CFR 2.1093(b)

Report Reference No.....:	**TRE1304000902 R/C: 96345**
FCC ID.....:	**ZG8BH701**
Compiled by (position+printed name+signature)..:	File administrators Eric Zhang
Supervised by (position+printed name+signature)..:	Test Engineer Tim Zhang
Approved by (position+printed name+signature)..:	Manager Wenliang Li
Date of issue.....:	Apr 08, 2013
Testing Laboratory Name .....:	**Shenzhen Huatongwei International Inspection Co., Ltd**
Address.....:	Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China
Applicant's name.....:	**LANYA ELECTRONIC Co., Ltd.**
Address.....:	3-5F，Workshop of 6,Lijincheng Science&Technolagy Industrial Area,The East Road of Industrial AREA,longhua Street,Bao'an District,Shenzhen City,Guangdong Province,P.R.China
Test specification:	
Standard .....:	**FCC Per 47 CFR 2.1093(b)**
TRF Originator.....:	Shenzhen Huatongwei International Inspection CO., Ltd
Master TRF.....:	Dated 2006-06

Test item description ..... :	Bluetooth Headset
Trade Mark .....:	/
Model/Type reference.....:	BH701
Listed Models .....:	BH702
Modulation .....:	GFSK, π/4 DQPSK, 8DPSK
Result.....:	**Positive**

T E S T R E P O R T

Test Report No. :	**TRE1304000902**	Apr 08, 2013 Date of issue

Equipment under Test	:	Bluetooth Headset
Model /Type	:	BH701
Listed Models	:	BH702
Applicant	:	**LANYA ELECTRONIC Co., Ltd.**
Address	:	3-5F，Workshop of 6,Lijincheng Science&Technolagy Industrial Area,The East Road of Industrial AREA,longhua Street,Bao'an District,Shenzhen City,Guangdong Province,P.R.China
Manufacturer	:	**LANYA ELECTRONIC Co., Ltd.**
Address	:	3-5F，Workshop of 6,Lijincheng Science&Technolagy Industrial Area,The East Road of Industrial AREA,longhua Street,Bao'an District,Shenzhen City,Guangdong Province,P.R.China

Contents

1 . SUMMARY

1.1. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

○	Power Cable	Length (m) :	/
		Shield :	/
		Detachable :	/
○	Multimeter	Manufacturer :	/
		Model No. :	/

1.2. Power supply system utilised

Power supply voltage	:	○	120V / 60 Hz	○	115V / 60Hz
		○	12 V DC	○	24 V DC
		●	Other (specified in blank below)		

DC 3.7V from battery

1.3. Description of the test mode

The EUT has been tested under typical operating condition. There are EDR (Enhanced Data Rate) and BDR (Basic Data Rate)mode.The Applicant provides communication tools software to control the EUT for staying in continous transmitting and receiving mode for testing. There are 79 channels of EUT, and the test carried out at the lowest channel, middle channel and highest channel .

Frequency Range:	2400-2483.5MHz
Channel number:	79 channels
Antenna:	PCB Antenna

1.4. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: ZG8BH701** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

1.5. Modifications

No modifications were implemented to meet testing criteria.

1.6. NOTE

1. The functions of the EUT are listed as below:

	Test Standards	Reference Report
Bluetooth	FCC Part 15 Subpart C (Section15.247)	TRE1304000901
Bluetooth	MPE report	TRE1304000902

2. The frequency bands used in this EUT are listed as follows:

Frequency Band(MHz)	2400-2483.5	5150-5350	5470-5725	5725-5850
EUT	√	—	—	—

2. TEST ENVIRONMENT

2.1. Address of the test laboratory

Shenzhen Huatongwei International Inspection Co., Ltd
Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China
Phone: 86-755-26715686 Fax: 86-755-26748089

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2009) and CISPR Publication 22.

2.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

2.3. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

3. Method of measurement

3.1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §RSS-102, Devices that have a radiating element normally operating at separation distances greater than 20 cm between the user and the device shall undergo an RF exposure evaluation. SAR evaluation may be performed in lieu of an RF exposure evaluation for devices operating below 6 GHz with a separation distance of greater than 20 cm between the user and the device.

According to §1.1310,KDB447498 and §2.1093 RF exposure is required.

OET Bulletin 65 Supplement C [June 2001]: Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields

3.2. Limit

According to KDB447498 D01 General RF Exposure Guidance v05 Appendix A:SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm, Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

3.3. TEST RESULTS

GFSK mode:

Test Frequency (MHz)	Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	SAR Test Exclusion Threshold (mW)	Test Results
2402	-1.30	2.00	1.1749	10	PASS
2241	-2.60	2.00	0.8710	10	PASS
2480	-3.41	2.00	0.7228	10	PASS

π/4 DQPSK mode:

Test Frequency (MHz)	Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	SAR Test Exclusion Threshold (mW)	Test Results
2402	-3.14	2.00	0.7691	10	PASS
2241	-4.33	2.00	0.5878	10	PASS
2480	-3.27	2.00	0.7639	10	PASS

8DPSK mode:

Test Frequency (MHz)	Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	SAR Test Exclusion Threshold (mW)	Test Results
2402	-3.39	2.00	0.7261	10	PASS
2241	-4.79	2.00	0.5260	10	PASS
2480	-4.88	2.00	0.5152	10	PASS

4. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 (b) for the controlled RF Exposure.

.....End of Report.....