

COLLAGE INVESTMENTS LLC

Mobile phone

Main Model: L1 FLYER

Serial Model: N/A

July 09, 2014


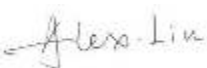

Report No.: 14050021-FCC-H2

(This report supersedes none)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

		
Kevin Tian Compliance Engineer	Alex Liu Technical Manager	

This test report may be reproduced in full only.
Test result presented in this test report is applicable to the representative sample only.

RF Exposure Evaluation Report
To: §15.247 (i), §2.1093

SIEMIC, INC.
Accessing global markets

Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to [testing](#) and [certification](#), SIEMIC provides initial design reviews and [compliance management](#) through out a project. Our extensive experience with [China](#), [Asia Pacific](#), [North America](#), [European](#), and [international](#) compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the [global markets](#).

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC , RF/Wireless , Telecom
Canada	EMC, RF/Wireless , Telecom
Taiwan	EMC, RF, Telecom , Safety
Hong Kong	RF/Wireless ,Telecom
Australia	EMC, RF, Telecom , Safety
Korea	EMI, EMS, RF , Telecom, Safety
Japan	EMI, RF/Wireless, Telecom
Singapore	EMC , RF , Telecom
Europe	EMC, RF, Telecom , Safety

This page has been left blank intentionally.

CONTENTS

1 EXECUTIVE SUMMARY & EUT INFORMATION5

2 TECHNICAL DETAILS6

3 MODIFICATION.....7

4 TEST SUMMARY.....8

5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS9

1 EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programme was to demonstrate compliance of the COLLAGE INVESTMENTS LLC, Mobile phone and model: L1 FLYER against the current Stipulated Standards. The Mobile phone has demonstrated compliance with the §15.247 (i), §2.1093.

EUT Information

EUT Description	Mobile phone
Main Model	L1 FLYER
Serial Model	N/A
Antenna Gain	Bluetooth & WIFI: -0.7dBi
Input Power	Adapter: Model: BSN-DB05B Input: AC 100-240V 50/60Hz 150mA Output: DC 5V 500mA RECHARGEABLE BATTERY BH-P4B: 3.7V 1300mAh 4.81Wh
Classification Per Stipulated Test Standard	§15.247 (i), §2.1093

2 TECHNICAL DETAILS

Purpose	Compliance testing of Mobile phone with stipulated standard
Applicant / Client	COLLAGE INVESTMENTS LLC 11437 NW 34 STREET, DORAL, FLORIDA 33178 U.S.A.
Manufacturer	NINGBO BIRD CO., LTD No.999 Dacheng East Road,Fenghua City,Zhejiang
Laboratory performing the tests	SIEMIC (Nanjing-China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel: +86(25)86730128/86730129 Fax: +86(25)86730127 Email: China@siemic.com.cn
Test report reference number	14050021-FCC-H2
Date EUT received	May 19, 2014
Standard applied	§15.247 (i), §2.1093
Dates of test (from – to)	May 26 to July 09, 2014
No of Units :	#1
Equipment Category :	Spread Spectrum System/Device
Trade Name :	LIKUID
RF Operating Frequency (ies)	802.11b/g/n: 2412-2462 MHz Bluetooth: 2402-2480 MHz
Number of Channels	Bluetooth: 79CH 802.11b/g/n: 11CH
Modulation	802.11b/g/n: DSSS/OFDM Bluetooth: GFSK
GPRS Multi-slot class	8/10/12
Port	Earphone Port, USB Port
FCC ID	GAO-FLYER

3 MODIFICATION

NONE

4 TEST SUMMARY

The product was tested in accordance with the following specifications.
All testing has been performed according to below product classification:

Test Results Summary

FCC Rules	Description of Test	Result
§15.247 (i), §2.1093	RF Exposure	Compliance

5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 §15.247 (i) and §2.1093/ – RF Exposure

Standard Requirement:

According to §15.247 (i) and §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.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$$

$$[\sqrt{f_{\text{(GHz)}}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{16} \text{ where}$$

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

BT Mode:

One antenna is available for the EUT (BT antenna). The minimum separation distances is 5 mm.

The maximum average output power(turn-up power) in low channel of BT is 0.31dBm=0.93 mW

The calculation results= $0.93/5 \cdot \sqrt{2.402} = 0.29 < 3$

The maximum average output power(turn-up power) in middle channel of BT is 1.57 dBm=1.44mW

The calculation results= $1.44/5 \cdot \sqrt{2.441} = 0.45 < 3$

The maximum average output power(turn-up power) in high channel of BT is 0.85 dBm=1.22 mW

The calculation results= $1.22/5 \cdot \sqrt{2.480} = 0.38 < 3$

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required .

WIFI Mode:

One antenna is available for the EUT (WIFI antenna). The minimum separation distances is 5 mm.

The maximum average output power(turn-up power) in low channel of WIFI is 7.60 dBm=5.75 mW

The calculation results= $5.75/5 \cdot \sqrt{2.412} = 1.79 < 3$

The maximum average output power(turn-up power) in middle channel of WIFI is 7.56 dBm=5.70 mW

The calculation results= $5.70/5 \cdot \sqrt{2.437} = 1.78 < 3$

The maximum average output power(turn-up power) in high channel of WIFI is 7.57 dBm=5.71 mW

The calculation results= $5.71/5 \cdot \sqrt{2.462} = 1.79 < 3$

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required .

Test Result: Pass