SGS-CSTC Standards Technical Services
(Shanghai) Co., Ltd.

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1 Cover Page

FCC MPE REPORT

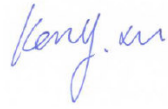
Application No.:	SHEM1311002229RF
Applicant:	KOKKIA, INC
Manufacturer:	KOKKIA, INC
FCC ID:	XWA-IADAPTER-X
Equipment Under Test (EUT): **NOTE:** The following sample(s) submitted was/were identified on behalf of the client as	
Product Name:	Bluetooth Universal Adapter
Model No.(EUT):	iAdapter
Add Model No.:	iAdapter_black, iAdapter_white
Standards:	FCC Rules 47 CFR §2.1093 KDB447498 D01 General RF Exposure Guidance
Date of Receipt:	November 12, 2013
Date of Test:	November 19, 2013 to November 21, 2013
Date of Issue:	December 02, 2013
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Tony Wu
E&E Section Manager
SGS-CSTC (Shanghai) Co., Ltd.

2 Version

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
00	/	December 02, 2013	/	Original

Authorized for issue by:				
Engineer		Eddy Zong **Print Name**		
Clerk		Susie Liu **Print Name**		
Reviewer		Keny Xu **Print Name**		

3 Contents

4 General Information

4.1 Client Information

Applicant:	KOKKIA, INC
Address of Applicant:	43575 Mission Blvd #302, Fremont, CA 94539. USA
Manufacturer:	KOKKIA, INC
Address of Manufacturer:	43575 Mission Blvd #302, Fremont, CA 94539. USA
Factory:	DONGGUAN CITY GREENTECH ELECTRONIC TECHNOLOGY CO., LTD.
Address of Factory:	2-3 Floor, 68 Wen Zeng Road, Wentang, Dongguan city, Guangdong, China.

4.2 General Description of E.U.T.

Product Name:	Bluetooth Universal Adapter
Model No.(EUT):	iAdapter
Add Model No.:	iAdapter_black, iAdapter_white
Brand Name:	KOKKIA
Product Description:	Portable product

4.3 Details of E.U.T.

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	2.1+EDR
Modulation Technique:	FHSS (GFSK, π/4DQPSK, 8DPSK)
Number of Channel:	79
Power Supply:	Charging voltage: DC 5.0V by USB port Rechargeable battery: DC4.2V
Antenna Type	Integral Chip Antenna
Antenna Gain	0.5dBi
Engineering mode:	Using test software to control EUT working in continuous transmitting, and select channel and modulation type.

4.4 Test Location

All tests were performed at SGS E&E EMC lab

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

4.5 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2014-07-26.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2014-09-20.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868 and C-4336 respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.

5 Test Standards and Limits

According to§1.1310 Radiofrequency radiation exposure limits:

The limit for general population/uncontrolled exposures

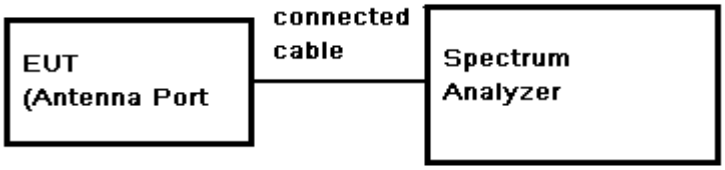
Frequency	Power density(mW/cm^2)	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30

6 Measurement and Calculation

6.1 Maximum transmit power

EUT Operation: Test in fixing frequency operating mode at lowest, middle and highest frequency.

Test Configuration:



Test Results record:

For BT:

Test mode	Channel	Reading Peak Power (dBm)	Cable Loss (dB)	Output Peak Power (dBm)	Output Peak Power (mW)	Peak Power Limit (dBm)	Result
GFSK	Low	0.44	0.5	0.94	1.24	30	PASS
	Mid	1.02	0.5	1.52	1.42	30	PASS
	High	1.28	0.5	1.78	1.51	30	PASS
π/4DQPSK	Low	-0.43	0.5	0.07	1.02	30	PASS
	Mid	1.05	0.5	1.55	1.43	30	PASS
	High	-0.24	0.5	0.26	1.06	30	PASS
8DPSK	Low	-0.01	0.5	0.49	1.12	30	PASS
	Mid	-0.02	0.5	0.48	1.12	30	PASS
	High	-0.10	0.5	0.40	1.10	30	PASS

6.2 MPE Calculation

According to the formula S= $\frac{PG}{4R^2\pi}$, we can calculate S which is MPE.

Note:

1) P (Watts) =Power Input to antenna = $10^{\frac{dBm}{10}}$ / 1000

2) G (Antenna gain in numeric) = 10^ (Antenna gain in dBi /10)

3) R = distance to the center of radiation of antenna (in meter) = 20cm

4) MPE limit = 1mW/cm²

The Max Conducted Peak Output Power is 1.51mW in High channel of GFSK;

The best case gain of the antenna is 0.5dBi. 3dB logarithmic terms convert to numeric result is nearly 1.12

So, S= $\frac{PG}{4R^2\pi} = \frac{1.51\times1.12}{4\times400\times3.14}$ =0.0003 mW/cm^2 $<$ 1 mW/cm^2

So the device is exclusion from SAR test.

7 EUT Constructional Details

Refer to the < iAdapter _External Photos-FCC > & < iAdapter _Internal Photos-FCC>.

--End of the Report--