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Report No.: SHEM131100222902

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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	Equipment Under Test (EUT):				
NOTE: The following sar	mple(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:	est 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.

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

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

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



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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.



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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.



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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



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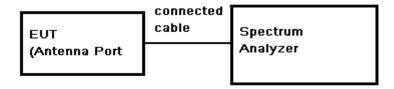
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6 Measurement and Calculation

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:

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



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6.2 MPE Calculation

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

Note:

dBm

- 1) P (Watts) = Power Input to antenna = 10^{-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/cm² < 1 mW/cm²

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--