# RF EXPOSURE REPORT



Report No.: 15071247-FCC-H2 Supersede Report No.: N/A

Applicant	ant JETHRO TRADING LTD.			
Product Name	GSM phone			
Model No.	SC118			
Serial No.	N/A			
Test Standard	FCC 2.109	3:2014		
Test Date	December	23, 2015 to Ja	anuary 07, 2016	
Issue Date	January 08, 2016			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Winnie Zhang		David	Huang	
Winnie Zhang Test Engineer			Huang ked By	

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Test result presented in this test report is applicable to the tested sample only

#### Issued by:

#### SIEMIC (SHENZHEN-CHINA) LABORATORIES

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### **Laboratories 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 throughout 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, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
15071247-FCC-H2	NONE	Original	January 08, 2016

## 2. Customer information

Applicant Name	JETHRO TRADING LTD.
Applicant Add	10385 Mckinnon Cresent,Langley,BC Canada
Manufacturer	Shenzhen Bayuda Technologies,co.,ltd
Manufacturer Add	Room A433 A Block,Shenzhen Industrial products exibition procurement center the
	baoyuan road baoan distric

## 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong	
	China 518108	
FCC Test Site No.	718246	
IC Test Site No.	4842E-1	
Test Software	Radiated Emission Program-To Shenzhen v2.0	



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### 4. Equipment under Test (EUT) Information

Description of EUT:	GSM phone

Main Model: SC118

Serial Model: N/A

Date EUT received: December 22, 2015

Test Date(s): December 23, 2015 to January 07, 2016

GSM850: 0.4dBi

Antenna Gain: PCS1900: 0.7dBi

Bluetooth: 0.5dBi

GSM / GPRS: GMSK

Type of Modulation:

Bluetooth: GFSK, π /4DQPSK, 8DPSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz

RF Operating Frequency (ies): PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz

Bluetooth: 2402-2480 MHz

GSM 850: 124CH

Number of Channels: PCS1900: 299CH

Input Power:

Bluetooth: 79CH

Battery:

Model:SC118

Spec: 3.7V,800mAh,2.96Wh

Charging limited voltage: 4.2V

Adapter:

Model: HJ-050050-US

Input: AC100-240V; 50/60Hz; 0.15A

Output: DC 5.0V,500mA

Port: Power Port, Earphone Port, USB Port



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Trade Name :	Jethro
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FCC ID: 2AAWJSC118



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## 5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

#### 5.1 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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot \sqrt{f_{(GHz)}} \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR,  $^{16}$  where

- f<sub>(GHz)</sub> is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $\leq 5$  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.

result =  $P\sqrt{F}/D$ 

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm



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## 5.2 Test Result

#### **Bluetooth Mode:**

Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	4.194	4±1	5	3.162	0.98	3
	Mid	2441	4.451	4±1	5	3.162	0.99	3
	High	2480	4.573	4±1	5	3.162	1.00	3
π /4 DQPSK	Low	2402	3.289	4±1	5	3.162	0.98	3
	Mid	2441	3.525	4±1	5	3.162	0.99	3
	High	2480	3.623	4±1	5	3.162	1.00	3
8-DPSK	Low	2402	3.540	4±1	5	3.162	0.98	3
	Mid	2441	3.713	4±1	5	3.162	0.99	3
	High	2480	3.944	4±1	5	3.162	1.00	3

Result: Compliance

No SAR measurement is required.