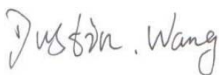
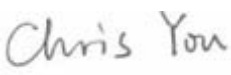
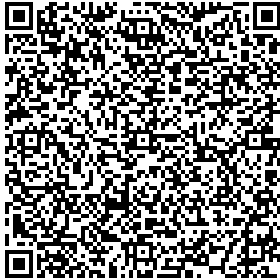


RF EXPOSURE REPORT



Report No.: 15070167-FCC-H2

Supersede Report No.: N/A

Applicant	HONGKONG IPRO TECH CO.,LTD	
Product Name	ELITE MINI	
Model No.	I9405	
Serial No.	N/A	
Test Standard	FCC 2.1093	
Test Date	April 15, 2015	
Issue Date	April 24, 2015	
Test Result	☒ Pass ☐ Fail	
Equipment complied with the specification ☒		
Equipment did not comply with the specification ☐		
		
Dustin Wang Test Engineer	Chris You Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108

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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
15070167-FCC-H2	NONE	Original	April 24, 2015

2. Customer information

Applicant Name	HONGKONG IPRO TECH CO.,LTD
Applicant Add	707-713 NATHAN RD MONGKOK, HONGKONG
Manufacturer	shenzhen zhike communications co.,ltd
Manufacturer Add	8th Floor, B Bldg. Dianzi Fuhua Jidi, Taojindi, Longsheng community, Longhua District, Shenzhen(ShangTang Metro Station Exit A LongHua Line)

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park 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

4. Equipment under Test (EUT) Information

Description of EUT: ELITE MINI

Main Model: I9405

Serial Model: N/A

Date EUT received: March 19, 2015

Test Date(s): April 15, 2015

Antenna Gain:

UMTS-FDD Band V/GSM850: 0 dBi
PCS1900/UMTS-FDD Band II: 1 dBi
Bluetooth/BLE: 2 dBi
WIFI: 2 dBi

Type of Modulation:

GSM / GPRS: GMSK
EGPRS: GMSK, 8PSK
UMTS-FDD: QPSK
802.11b/g/n: DSSS, OFDM
Bluetooth: GFSK, $\pi/4$ QPSK, 8DPSK
BLE: GFSK

RF Operating Frequency (ies):

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz
PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz
UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz
UMTS-FDD Band II TX: 1852.4 ~ 1907.6 MHz;
RX: 1932.4 ~ 1987.6 MHz
WIFI: 802.11b/g/n(20M): 2412-2462 MHz
WIFI: 802.11n(40M): 2422-2452 MHz
Bluetooth & BLE: 2402-2480 MHz

Number of Channels:

GSM 850: 124CH
PCS1900: 299CH
UMTS-FDD Band V : 102CH
UMTS-FDD Band II : 277CH
WIFI : 802.11b/g/n(20M): 11CH

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WIFI :802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH

Port: Power Port, Earphone Port, USB Port

Battery:

Model: Elite mini

Spec: 3.8V 1250mAh

Limited charger voltage: 4.35V

Input Power:

Adapter:

Model: NTR-S05

Input: AC 100-240V; 50/60Hz 150mA

Output: DC 5.0V; 700mA

Trade Name : IPRO

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: PQ4IPROELITEMINI

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

5.1 RF Exposure

Radiofrequency radiation exposure evaluation: portable devices.

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:

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

- f_{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.

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

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm

5.2 Test Result

Bluetooth Mode:

Modulation	CH	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	6.442	6.0±1	7.0	5.01	1.55	3
	Mid	2441	6.385	6.0±1	7.0	5.01	1.57	3
	High	2480	5.943	6.0±1	7.0	5.01	1.58	3
π /4 DQPSK	Low	2402	5.775	6.0±1	7.0	5.01	1.55	3
	Mid	2441	5.823	6.0±1	7.0	5.01	1.57	3
	High	2480	5.259	6.0±1	7.0	5.01	1.58	3
8-DPSK	Low	2402	5.814	6.0±1	7.0	5.01	1.55	3
	Mid	2441	5.807	6.0±1	7.0	5.01	1.57	3
	High	2480	5.297	6.0±1	7.0	5.01	1.58	3

WIFI Mode:

Modulation	CH	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
802.11b	Low	2412	9.68	8.7±1	9.7	9.333	2.90	3
	Mid	2437	9.61	8.7±1	9.7	9.333	2.91	3
	High	2462	9.44	8.7±1	9.7	9.333	2.93	3
802.11g	Low	2412	9.26	8.7±1	9.7	9.333	2.90	3
	Mid	2437	9.17	8.7±1	9.7	9.333	2.91	3
	High	2462	9.62	8.7±1	9.7	9.333	2.93	3
802.11n (20M)	Low	2412	8.99	8.7±1	9.7	9.333	2.90	3
	Mid	2437	8.81	8.7±1	9.7	9.333	2.91	3
	High	2462	8.59	8.7±1	9.7	9.333	2.93	3
802.11n (40M)	Low	2422	8.76	8.7±1	9.7	9.333	2.90	3
	Mid	2437	9.06	8.7±1	9.7	9.333	2.91	3
	High	2452	9.18	8.7±1	9.7	9.333	2.92	3

BLE Mode:

Modulation	CH	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	-1.078	-1.5±1	-0.5	0.89	0.28	3
	Mid	2440	-1.156	-1.5±1	-0.5	0.89	0.28	3
	High	2480	-1.924	-1.5±1	-0.5	0.89	0.28	3

Result: Compliance

No SAR measurement is required.