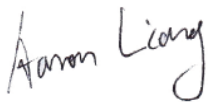
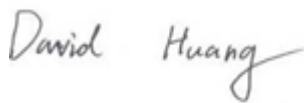


RF EXPOSURE REPORT



Report No.: Q181101S008-FCC-H

Supersede Report No.: N/A

Applicant	Cedar Kingdom Corporation Limited	
Product Name	Mobile Phone	
Model No.	V501C	
Serial No.	N/A	
Test Standard	FCC 2.1093	
Test Date	November 06 to 25, 2018	
Issue Date	December 03, 2018	
Test Result	☒ Pass ☐ Fail	
Equipment complied with the specification ☒		
Equipment did not comply with the specification ☐		
		
Aaron Liang Test Engineer	David Huang 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

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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
Q181101S008-FCC-H	NONE	Original	December 03, 2018

2. Customer information

Applicant Name	Cedar Kingdom Corporation Limited
Applicant Add	11/F, AXA Centre 151 Gloucester Road, Wanchai, Hong Kong
Manufacturer	Cedar Kingdom Corporation Limited
Manufacturer Add	11/F, AXA Centre 151 Gloucester Road, Wanchai, Hong Kong

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.	535293
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

4. Equipment under Test (EUT) Information

Description of EUT:	Mobile Phone
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Main Model: V501C

Serial Model: N/A

Date EUT received: November 11, 2018

Test Date(s): November 06 to 25, 2018

	GSM850: -1.12dBi
	PCS1900: -1.45dBi
	UMTS-FDD Band V: -1.12dBi
Antenna Gain:	UMTS-FDD Band II: -1.45dBi
	WIFI: -2.03dBi
	Bluetooth/BLE: -2.06dBi
	GPS: -1.56dBi

Antenna Type: PIFA Antenna

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

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
- GPS: 1575.42 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
WIFI :802.11n(40M): 7CH
Bluetooth: 79CH
BLE: 40CH
GPS:1CH

Port: Please refer to the user' s manual

Input Power: Adapter :
Model: V-501C
Input: AC100-240V~50/60Hz,150mA
Output: DC 5.0V, 1A
Battery :
Model: V-501C
Spec: 3.8V, 2200mAh/8.36Wh
Limited charge voltage: 4.35

Trade Name : VIRZO

FCC ID: 2AKQUVZCKV501C

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:

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

- $f_{\text{(GHz)}}$ 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.

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

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm

5.2 Test Result

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	8.83	8±1	9	7.943	2.47	3
	Mid	2437	8.55	8±1	9	7.943	2.48	3
	High	2462	8.30	8±1	9	7.943	2.49	3
802.11g	Low	2412	9.14	8.6±1	9.6	9.120	2.83	3
	Mid	2437	9.42	8.6±1	9.6	9.120	2.85	3
	High	2462	9.01	8.6±1	9.6	9.120	2.86	3
802.11n (20M)	Low	2412	9.04	8.6±1	9.6	9.120	2.83	3
	Mid	2437	9.42	8.6±1	9.6	9.120	2.85	3
	High	2462	9.09	8.6±1	9.6	9.120	2.86	3
802.11n (40M)	Low	2422	9.39	8.6±1	9.6	9.120	2.84	3
	Mid	2437	9.25	8.6±1	9.6	9.120	2.85	3
	High	2452	9.44	8.6±1	9.6	9.120	2.86	3

Bluetooth Mode:

Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	1.651	2±1	3	1.995	0.62	3
	Mid	2441	2.250	2±1	3	1.995	0.62	3
	High	2480	2.421	2±1	3	1.995	0.63	3
π /4 DQPSK	Low	2402	1.295	2±1	3	1.995	0.62	3
	Mid	2441	1.835	2±1	3	1.995	0.62	3
	High	2480	2.072	2±1	3	1.995	0.63	3
8-DPSK	Low	2402	1.368	2±1	3	1.995	0.62	3
	Mid	2441	1.934	2±1	3	1.995	0.62	3
	High	2480	2.187	2±1	3	1.995	0.63	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	1.106	2±1	3	1.995	0.62	3
	Mid	2440	1.729	2±1	3	1.995	0.62	3
	High	2480	1.990	2±1	3	1.995	0.63	3

Result: Compliance

No SAR measurement is required.