
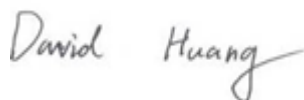


RF EXPOSURE REPORT



Report No.: Q190826S004-FCC-H

Supersede Report No.: N/A

Applicant	Cedar Kingdom Corporation Limited
Product Name	Mobile Phone
Model No.	V505c
Serial No.	N/A
Test Standard	FCC 2.1093
Test Date	Sep 2 to 25, 2019
Issue Date	Sep 27, 2019
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Equipment complied with the specification	<input checked="" type="checkbox"/>
Equipment did not comply with the specification	<input type="checkbox"/>
	
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

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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

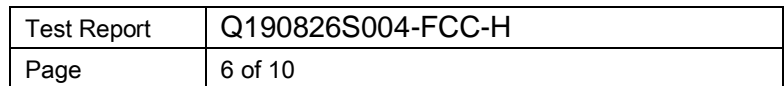
Report No.	Report Version	Description	Issue Date
Q190826S004-FCC-H	NONE	Original	Sep 27, 2019

2. Customer information

Applicant Name	Cedar Kingdom Corporation Limited
Applicant Add	Flat/Rm 05, 14/F, Lucky Centre, 165-171 Wanchai Road, Wanchai, Hong Kong
Manufacturer	Cedar Kingdom Corporation Limited
Manufacturer Add	Flat/Rm 05, 14/F, Lucky Centre, 165-171 Wanchai 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



Description of EUT:	Mobile Phone
Main Model:	V505c
Serial Model:	N/A
Date EUT received:	Aug 28, 2019
Test Date(s):	Sep 2 to 25, 2019
Antenna Gain:	GSM850: -0.7dBi PCS1900: 0.4dBi UMTS-FDD Band V: 0.4dBi UMTS-FDD Band II: -0.6dBi WIFI: 0.8dBi Bluetooth/BLE: 0.9dBi
Antenna Type:	FPC Antenna
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π /4DQPSK, 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
WIFI :802.11n(40M): 7CH
Bluetooth: 79CH
BLE: 40CH

Port: Please refer to the user's manual

Adapter :
Model: V505c
Input: AC100-240V~50/60Hz, 150mA
Output: DC 5.0V, 1A

Input Power:

Battery :
Model: S13
Spec: 3.8V, 2500mAh/9.50Wh
Limited charge voltage: 4.35V

Trade Name : VIRZO

FCC ID: 2AKQUVZCKV505C

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

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	4.44	4±1	5	3.162	0.98	3
	Mid	2441	4.41	4±1	5	3.162	0.99	3
	High	2480	3.94	4±1	5	3.162	1.00	3
π /4 DQPSK	Low	2402	4.23	4±1	5	3.162	0.98	3
	Mid	2441	4.17	4±1	5	3.162	0.99	3
	High	2480	3.62	4±1	5	3.162	1.00	3
8-DPSK	Low	2402	4.29	4±1	5	3.162	0.98	3
	Mid	2441	4.23	4±1	5	3.162	0.99	3
	High	2480	3.76	4±1	5	3.162	1.00	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	4.28	4±1	5	3.162	0.98	3
	Mid	2440	4.22	4±1	5	3.162	0.99	3
	High	2480	3.9	4±1	5	3.162	1	3

WIFI Mode:

Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
802.11b	Low	2412	7.35	8±1	9	7.943	2.47	3
	Mid	2437	8.18	8±1	9	7.943	2.48	3
	High	2462	8.33	8±1	9	7.943	2.49	3
802.11g	Low	2412	7.46	8±1	9	7.943	2.47	3
	Mid	2437	8.18	8±1	9	7.943	2.48	3
	High	2462	8.32	8±1	9	7.943	2.49	3
802.11n20	Low	2412	7.16	8±1	9	7.943	2.47	3
	Mid	2437	8.33	8±1	9	7.943	2.48	3
	High	2462	7.8	8±1	9	7.943	2.49	3
802.11n40	Low	2422	7.2	8±1	9	7.943	2.47	3
	Mid	2437	7.52	8±1	9	7.943	2.48	3
	High	2452	8.18	8±1	9	7.943	2.49	3

Result: Compliance

No SAR measurement is required.