RF EXPOSURE REPORT



Report No.: 16070128-FCC-H2
Supersede Report No.: N/A

SUPERSO	NIC INC		
5.0" LTE smart phone			
SV-150LTE	<u> </u>		
SV-250LTE	, SV-350LTI	= ,	
SV-155LTE, SV-255LTE,			
SV-355LTE	, SV-6LTE,	SV-16LTE,	
SV-36LTE,	SC-150LTE		
FCC 2.1093:2014			
Feb 04 to Feb 26, 2016			
ate Feb 26, 2016			
Test Result Pass Fail			
Equipment complied with the specification			
Equipment did not comply with the specification			
Winnie Zhang David Huang			
Winnie Zhang David Huang			
Test Engineer		•	
,	5.0" LTE sr SV-150LTE SV-250LTE SV-355LTE SV-36LTE, FCC 2.1099 Feb 04 to F Feb 26, 209 Pass ied with the set comply with	SV-150LTE SV-250LTE, SV-350LTI SV-155LTE, SV-255LTI SV-355LTE, SV-6LTE, SV-36LTE, SC-150LTE FCC 2.1093:2014 Feb 04 to Feb 26, 2016 Feb 26, 2016 Pass Fail fied with the specification to comply with the specific	5.0" LTE smart phone SV-150LTE SV-250LTE, SV-350LTE, SV-155LTE, SV-255LTE, SV-355LTE, SV-6LTE, SV-16LTE, SV-36LTE, SC-150LTE FCC 2.1093:2014 Feb 04 to Feb 26, 2016 Feb 26, 2016 Pass Fail ied with the specification t comply with the specification A comply with the specification David Huang David Huang

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

Issued by:

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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
16070128-FCC-H2	NONE	Original	Feb 26, 2016

2. Customer information

Applicant Name	SUPERSONIC INC
Applicant Add	6555 BANDINI BOULEVARD COMMERCE CA 90040-3119 USA
Manufacturer	NCBC OVERSEA CO., LIMITED
Manufacturer Add	FLAT/RM A5 9/F SILVERCORP INT'L TOWER 707-713 NATHAN ROAD
	MONGKOK KLN HONGKONG

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: 5.0" LTE smart phone

Main Model: SV-150LTE

SV-250LTE, SV-350LTE,

Serial Model: SV-155LTE, SV-255LTE,

SV-355LTE, SV-6LTE, SV-16LTE,

SV-36LTE, SC-150LTE

Date EUT received: Feb 03, 2016

Test Date(s): Feb 04 to Feb 26, 2016

GSM850: -1 dBi PCS1900: 0 dBi

UMTS-FDD Band V: -1dBi UMTS-FDD Band II: 0 dBi Bluetooth/BLE: 0 dBi

Antenna Gain: WIFI: 0 dBi

LTE Band 2: 0 dBi LTE Band 4: 0 dBi LTE Band 7: 1 dBi LTE Band 17: -1 dBi

GPS:0 dBi

GSM / GPRS: GMSK EGPRS: GMSK,8PSK

UMTS-FDD: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM

Type of Modulation:

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK

LTE Band: QPSK, 16QAM

GPS:BPSK

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

UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz



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UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

WIFI:802.11b/g/n(20M): 2412-2472 MHz WIFI:802.11n(40M): 2422-2462 MHz Bluetooth& BLE: 2402-2480 MHz

LTE Band 2 TX: $1852.5 \sim 1907.5$ MHz; RX: $1932.5 \sim 1987.5$ MHz LTE Band 4 TX: $1712.5 \sim 1752.5$ MHz; RX: $2112.5 \sim 2152.5$ MHz LTE Band 7 TX: $2502.5 \sim 2567.5$ MHz; RX: $2622.5 \sim 2687.5$ MHz LTE Band 17 TX: $706.5 \sim 713.5$ MHz; RX: $736.5 \sim 743.5$ MHz

GPS RX:1575.42 MHz

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V : 102CH UMTS-FDD Band II : 277CH

Number of Channels: WIFI :802.11b/g/n(20M): 13CH

WIFI:802.11n(40M): 9CH

Bluetooth: 79CH BLE: 40CH

GPS:1CH

Port: Power Port, Earphone Port, USB Port

Adapter:

Model: HJ-0501000B2-US

Input: AC 100-240V; 50/60Hz;0.15A

Output: DC 5.0V,1000mA

Input Power:

Battery:

Model: SV-150LTE Capacity: 2200mAh Voltage: 4.35V

Trade Name: SHARPER VIEW

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

FCC ID: 2AC5R-SV-150LTE



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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 ≤ 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.

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	Tune Up Power	Max Tune Up Power	Max Tune Up Power	Result	Limit
			(dBm)	(dBm)	(dBm)	(mW)		
	Low	2402	4.986	4±1	5	3.162	0.98	3
GFSK	Mid	2441	4.713	4±1	5	3.162	0.99	3
	High	2480	4.642	4±1	5	3.162	1.00	3
π /4 DQPSK	Low	2402	4.360	4±1	5	3.162	0.98	3
	Mid	2441	4.110	4±1	5	3.162	0.99	3
	High	2480	4.005	4±1	5	3.162	1.00	3
8-DPSK	Low	2402	4.552	4±1	5	3.162	0.98	3
	Mid	2441	4.292	4±1	5	3.162	0.99	3
	High	2480	4.194	4±1	5	3.162	1.00	3

WIFI Mode:

Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
	Low	2412	9.16	8.5±1	9.5	8.913	2.77	3
802.11b	Mid	2442	8.67	8.5±1	9.5	8.913	2.79	3
	High	2472	9.04	8.5±1	9.5	8.913	2.80	3
	Low	2412	9.11	8.5±1	9.5	8.913	2.77	3
802.11g	Mid	2442	9.05	8.5±1	9.5	8.913	2.79	3
	High	2472	8.86	8.5±1	9.5	8.913	2.80	3
000 115	Low	2412	9.32	8.5±1	9.5	8.913	2.77	3
802.11n (20M)	Mid	2442	8.91	8.5±1	9.5	8.913	2.79	3
	High	2472	9.18	8.5±1	9.5	8.913	2.80	3
802.11n (40M)	Low	2422	8.56	8.5±1	9.5	8.913	2.77	3
	Mid	2442	8.21	8.5±1	9.5	8.913	2.79	3
	High	2462	8.32	8.5±1	9.5	8.913	2.80	3



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BLE 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	-1.797	-2±1	-1	0.794	0.25	3
	Mid	2440	-2.017	-2±1	-1	0.794	0.25	3
	High	2480	-2.240	-2±1	-1	0.794	0.25	3

Result: Compliance

No SAR measurement is required.