RF EXPOSURE REPORT



Report No.: 15070823-FCC-H2 Supersede Report No.: N/A

Applicant	NEG TECHNOLOGY CO., LIMITED			
Product Name	Mobile Phone			
Model No.	F1009D			
Serial No.	N/A			
Test Standard	FCC 2.1093	3:2014		
Test Date	September 10 to September 24, 2015			
Issue Date	September	29, 2015		
Test Result	Pass	Fail		
Equipment complied with the specification				
Equipment did no	Equipment did not comply with the specification			
Winnie.Z	heng	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

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn



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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
15070823-FCC-H2	NONE	Original	September 29, 2015

2. Customer information

Applicant Name	NEG TECHNOLOGY CO., LIMITED
Applicant Add	Rm 1406, Block B, Jinsejiari, Jingtian south road, Futian district, Shenzhen, China
Manufacturer	NEG TECHNOLOGY CO., LIMITED
Manufacturer Add	Rm 1406, Block B, Jinsejiari, Jingtian south road, Futian district, Shenzhen, China

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:	Mobile Phone
Main Model:	F1009D
Serial Model:	N/A
Date EUT received:	September 09, 2015
Test Date(s):	September 10 to September 24, 2015
Antenna Gain:	GSM850:0.3dBi PCS1900:0.35dBi Bluetooth:0.1dBi
Type of Modulation:	GSM / GPRS: GMSK Bluetooth: GFSK, π /4DQPSK, 8DPSK
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 Bluetooth: 2402-2480 MHz
Number of Channels:	GSM 850: 124CH PCS1900: 299CH Bluetooth: 79CH
Port:	Power Port, Earphone Port, USB Port
	AC Adapter:

Model:F1009D

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

Output: DC5.0V; 500mA

Input Power: Battery:

Model:F1009D

Bateria Li-on:2.59Wh

Voltaje de carga limite:4.2V

Capacidad de bacteria:700mAh



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Trade Name : OWN

GPRS Multi-slot class 8/10/12

FCC ID: 2AAZ8-F1009D

Date EUT received: September 09, 2015



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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 (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	-2.819	-3±1	-2	0.631	0.20	3
	Mid	2441	-3.945	-3±1	-2	0.631	0.20	3
	High	2480	-4.280	-4±1	-3	0.501	0.16	3
π /4 DQPSK	Low	2402	-1.267	-1±1	0	1.000	0.31	3
	Mid	2441	-2.053	-2±1	-1	0.794	0.25	3
	High	2480	-3.531	-3±1	-2	0.631	0.20	3
8-DPSK	Low	2402	-0.982	-1±1	-0	1.000	0.31	3
	Mid	2441	-1.642	-1±1	0	1.000	0.31	3
	High	2480	-3.049	-3±1	-2	0.631	0.20	3

Result: Compliance

No SAR measurement is required.