RF EXPOSURE REPORT



Report No.: 17070294-FCC-H2 Supersede Report No.: N/A

Applicant	MOVILTELCO TRADE, S.L.			
Product Name	Mobile pho	ne		
Model No.	L402			
Serial No.	N/A			
Test Standard	FCC 2.109	3:2016		
Test Date	May 04 to 2	21, 2017		
Issue Date	May 22, 20	17		
Test Result	Pass	Fail		
Equipment compli	ied with the	specification	~	
Equipment did no	t comply with	n the specificat	tion 🗖	
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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
17070294-FCC-H2	NONE	Original	May 22, 2017

2. Customer information

Applicant Name	MOVILTELCO TRADE, S.L.
Applicant Add	Street: ABTAO,25-1Floor A-office MADRID-SPAIN
Manufacturer	MOVILTELCO TRADE, S.L.
Manufacturer Add	Street: ABTAO,25-1Floor A-office MADRID-SPAIN

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
3 11 11	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
I als Aslalusas		
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
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Main Model: L402

Serial Model: N/A

Date EUT received: May 03, 2017

Test Date(s): May 04 to 21, 2017

GSM850:0dBi

PCS1900: 0dBi

UMTS-FDD Band V: 0dBi

UMTS-FDD Band II: 0dBi Antenna Gain:

LTE Band II: 0dBi

WIFI: 0dBi

Bluetooth: 0dBi

GPS: 0dBi

Antenna Type: PIFA antenna

GSM / GPRS: GMSK EGPRS: GMSK,8PSK

UMTS-FDD: QPSK

Type of Modulation: LTE Band: QPSK, 16QAM

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

GPS:BPSK



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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;

RF Operating Frequency (ies): RX: 1932.4 ~ 1987.6 MHz

LTE Band II TX: 1850.7~ 1909.3 MHz; RX: 1930.7 ~ 1989.3 MHz

WIFI: 802.11b/g/n(20M): 2412-2462 MHz

Bluetooth: 2402-2480 MHz

GPS: 1575.42 MHz

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH

Number of Channels: UMTS-FDD Band II: 277CH

WIFI:802.11b/g/n(20M): 11CH

Bluetooth: 79CH

GPS:1CH

Port: USB Port, Earphone Port

Adapter:

Model: L402

Input: AC100-240V~50/60Hz,0.15A

Output: DC 5.0V,500mA

Input Power:

Battery:

Model: L402

Spec: 3.7V,5.18WH(min/typ) Voltage of charge limited:4.2V

Trade Name : Mtt/movistar

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

FCC ID: 2ACQKTELCO012



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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	Freque ncy	Conducted Power	Tune Up Power	Max Tune Up Power	Max Tune Up Power	Result	Limit
		(MHz)	(dBm)	(dBm)	(dBm)	(mW)		
GFSK	Low	2402	5.707	6±1	7	5.012	1.55	3
	Mid	2441	6.379	6±1	7	5.012	1.57	3
	High	2480	5.090	6±1	7	5.012	1.58	3
π /4 DQPSK	Low	2402	6.816	7±1	8	6.310	1.96	3
	Mid	2441	7.143	7±1	8	6.310	1.97	3
	High	2480	6.017	7±1	8	6.310	1.99	3
8-DPSK	Low	2402	6.937	7±1	8	6.310	1.96	3
	Mid	2441	7.215	7±1	8	6.310	1.97	3
	High	2480	6.336	7±1	8	6.310	1.99	3

Result: Compliance

No SAR measurement is required.