FCC REPORT

Applicant: MOVILTELCO TRADE, S.L.

Address of Applicant: Street: ABTAO, 25-1 Floor A-office MADRID -SPAIN

Equipment Under Test (EUT)

Product Name: GSM mobile phone

Model No.: M07

Trade mark: mtt

FCC ID: 2ACQKTELCO001

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 03 Jul., 2014

Date of Test: 04 Jul., to 21 Jul., 2014

Date of report issued: 21 Jul., 2014

Test Result: Pass *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

^{*} In the configuration tested, the EUT complied with the standards specified above.



2 Version

Version No.	Date	Description
00	21 Jul., 2014	Original

Prepared by: Date: 21 Jul., 2014

Report Clerk

Reviewed by: Date: 21 Jul., 2014

Project Engineer



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4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part15.107	Pass		
Radiated Emission	Part15.109	Pass		

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant:	MOVILTELCO TRADE, S.L
Address of Applicant:	Street: ABTAO, 25-1 Floor A-office MADRID - SPAIN
Manufacturer :	REACH CHANCE INTERNATIONAL LIMITED
Address of Manufacturer:	7/F KIN ON COMMERCIAL BUILDING 49-51 JERVOIS STREET SHEUNG WAN, HK

5.2 General Description of E.U.T.

Product Name:	GSM mobile phone
Model No.:	M07
Power supply:	Rechargeable Li-ion Battery DC3.7V-650mAh
	MODEL:M07
AC adapter :	Input: AC 100-240V 50/60Hz 0.20A
	Output: DC 5V, 500mA

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charing & recording mode	Keep the EUT in Charing & recording mode
FM mode	Keep the EUT in FM receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.



5.4 Description of Support Units

Manufacturer	Description Model S		Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	MONITOR E178FPC		DoC
DELL	KEYBOARD SK-8115		N/A	DoC
DELL	DELL MOUSE MOC5UO		N/A	DoC
HP	Printer CB495A		05257893	DoC

5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

● IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: 0755-23118282 Fax: 0755-23116366



5.7 Test Instruments list

Radiated Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	July 09 2014	Jul 08 2015		
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 25 2014	June 24 2015		
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	June 25 2014	June 24 2015		
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2014	Mar. 31 2015		
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2014	Mar. 31 2015		
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2014	Mar. 31 2015		
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2014	Mar. 31 2015		
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2014	Mar. 31 2015		
10	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2014	Mar. 31 2015		
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	July 09 2014	July 08 2015		
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2014	Mar. 31 2015		
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2014	Mar. 29 2015		
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A		
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A		
16	Spectrum analyzer 9k-30GHz	pectrum analyzer Rohde & Schwarz		CCIS0023	June. 25 2014	June. 24 2015		
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2014	Mar. 31 2015		
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2013	Aug. 11 2014		
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	June. 25 2014	June. 24 2015		
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	June. 25 2014	June. 24 2015		

Cond	Conducted Emission:										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)					
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	July 09 2014	July 08 2015					
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	June 25 2014	June. 24 2015					
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2014	Mar. 31 2015					
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2014	Mar. 31 2015					



6 Test results and Measurement Data

6.1 Conducted Emission

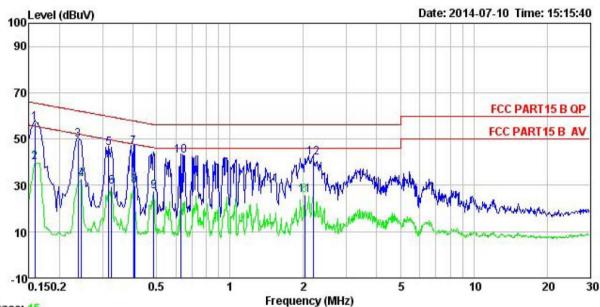
Test Requirement:	FCC Part15 B Sec	ion 15.107						
Test Method:	ANSI C63.4:2003	ANSI C63.4:2003						
Test Frequency Range:	150kHz to 30MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9kHz, VBW=	:30kHz						
Limit:		_ Limit (dBµV)						
	Frequency rar	Frequency range (MHz) Quasi-peak Average						
	0.15-0	.5	66 to 56*		56 to 46*			
	0.5-5		56		46			
	0.5-3)	60		50			
Test setup:	1	Reference Plane						
Test procedure	coupling impeda 2. The peripheral of that provides a second (Please refers to 3). Both sides of A order to find the of the interface conducted measures.	E.U.T ion plane Est bilization Network simulators are conn ilization network(L.I. ance for the measur levices are also cor 500hm/50uH coupli the block diagram C. line are checked maximum emission cables must be cha	ected to the m I.S.N.). The proving equipment nected to the ng impedance of the test set d for maximum n, the relative p nged accordin	main power with 50ohr up and photoconducted cositions of g to ANSI (ohm/50uH or through a LISN or termination. otographs). I interference. In equipment and all 263.4: 2003 on			
Test environment:	Temp.: 23 °C	Humid.:	56%	Press.:	1 01kPa			
Measurement Record:				Unce	ertainty: 3.28dB			
Test Instruments:	Refer to section 5.	for details						
Test mode:	Refer to section 5.3 for details							
Test results:	Pass	Pass						



Measurement data:

PC mode:

Line:



Trace: 15

: CCIS Shielding Room : FCC PART15 B QP LISN LINE : 537RF Site Condition

Job No.

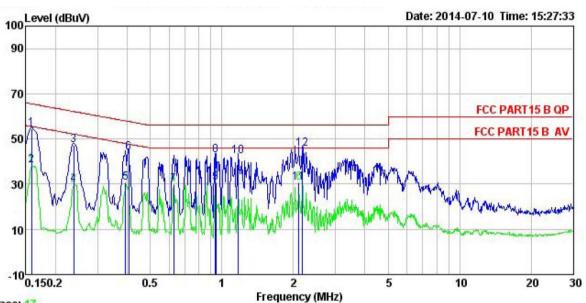
EUT : GSM mobile phone

Model : MO7 Test Mode : PC Mode
Power Rating : AC120V/60Hz
Environment : Temp: 23 C Huni:56% Atmos:101KPa

est	Engineer:	Carey						
		Read	LISN	Cable		Limit	Over	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBu∜	<u>dB</u>		dBu∜	dBu∜	<u>dB</u>	
1	0.158	45.97	0.27	10.78	57.02	65.56	-8.54	QP
2	0.158	28.70	0.27	10.78	39.75	55.56	-15.81	Average
3	0.238	38.66	0.27	10.75	49.68	62.17	-12.49	QP
4	0.246	21.52	0.27	10.75	32.54	51.91	-19.37	Average
5	0.318	34.91	0.26	10.74	45.91	59.75	-13.84	QP
1 2 3 4 5 6 7 8 9	0.327	18.46	0.27	10.73	29.46	49.53	-20.07	Average
7	0.402	35.52	0.28	10.72	46.52	57.81	-11.29	QP
8	0.406	18.84	0.28	10.72	29.84	47.73	-17.89	Average
9	0.486	16.45	0.29	10.76	27.50			Average
10	0.630	31.57	0.24	10.77	42.58	56.00	-13.42	QP
11	2.023	14.32	0.26	10.96	25.54	46.00	-20.46	Average
12	2.190	30.92	0.26	10.95	42.13		-13.87	



Neutral:



Trace: 17

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL : 537RF Condition

Job No.

EUT : GSM mobile phone : M07 Model

Test Mode : PC Mode
Power Rating : AC120V/60Hz
Environment : Temp: 23 C Huni:56% Atmos:101KPa

Test Engineer: Carey

	Freq	Read Level	LISN Factor			Limit Line		Remark
	MHz	dBu₹	<u>dB</u>	<u>dB</u>	dBu₹	—dBu⊽	<u>db</u>	
1	0.158	43.57	0.25	10.78	54.60	65.56	-10.96	QP
2	0.158	27.13	0.25	10.78	38.16	55.56	-17.40	Average
2	0.238	36.24	0.25	10.75	47.24	62.17	-14.93	QP
4	0.238	18.70	0.25	10.75	29.70	52.17	-22.47	Average
4 5 6 7 8 9	0.393	19.46	0.25	10.72	30.43	47.99	-17.56	Average
6	0.406	33.11	0.25	10.72	44.08	57.73	-13.65	QP
7	0.627	18.97	0.22	10.77	29.96	46.00	-16.04	Average
8	0.938	31.55	0.21	10.85	42.61	56.00	-13.39	QP
9	0.943	19.71	0.21	10.85	30.77	46.00	-15.23	Average
10	1.172	31.40	0.24	10.89	42.53	56.00	-13.47	QP
11	2.110	19.16	0.29	10.95	30.40	46.00	-15.60	Average
12	2.178	34.47	0.29	10.95	45.71	56.00	-10.29	QP

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366



6.2 Radiated Emission

0.2 Radiated Lillission								
Test Requirement:	FCC Part15 B Section 15.109							
Test Method:	ANSI C63.4:2003							
Test Frequency Range:	30MHz to 6000MHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver setup:	Frequency	Detector	VBW	Remark				
	30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
	Above Toriz	Peak	1MHz	10Hz	Average Value			
Limit:	Freque		Limit (dBuV/		Remark			
	30MHz-8		40.0		Quasi-peak Value			
	88MHz-2		43.5		Quasi-peak Value			
	216MHz-9		46.0		Quasi-peak Value			
	960MHz-	-1GHz	54.0		Quasi-peak Value			
	Above 1	IGHz	54.0		Average Value			
			74.0)	Peak Value			
	Ground Plane — Above 1GHz		Antenna Tower Search Antenna RF Test Receiver Antenna Tower Horn Antenna Spectrum Analyzer					



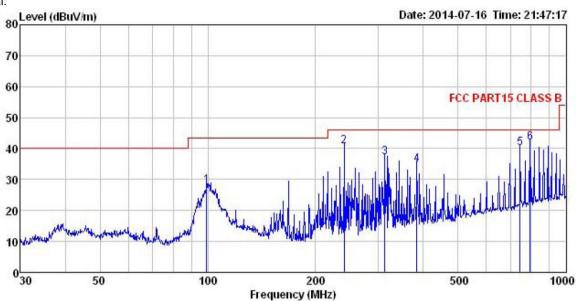
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 							
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.							
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.							
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.							
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.							
Test environment:	Temp.: 25 °C Humid.: 55% Press.: 1 01kPa							
Measurement Record:	Uncertainty: 4.88dB							
Test Instruments:	Refer to section 5.7 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							



Measurement Data

Below 1GHz

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL Condition

Pro : 537RF

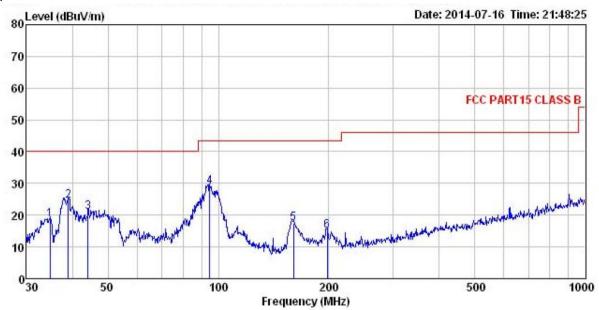
EUT : GSM mobile phone

EDI : GSM mobile phone
Model : MO7
Test mode : PC mode
Power Rating : 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey
RFMARK

EMARK	:	10 FC 50		107.30.300	18.		Same Inter		
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
-	MHz	dBu₹	dB/m	dB	<u>dB</u>	dBuV/m	dBuV/m	dB	
1	99.180	43.63	13.13	0.96	29.53	28.19	43.50	-15.31	QP
2	239.987	55.72	12.09	1.58	28.59	40.80	46.00	-5.20	QP
3	312.179	50.67	13.22	1.81	28.48	37.22	46.00	-8.78	QP
4	383.932	46.87	14.68	2.06	28.71	34.90	46.00	-11.10	QP
5	744.866	46.34	19.39	3.03	28.50	40.26	46.00	-5.74	QP
6	793, 396	46 99	19 96	3 16	28 23	41 88	46 00	-4 12	OP



Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL Condition

: 537RF Pro

EUT : GSM mobile phone

Model : MO7 Test mode : PC mode
Power Rating : 120V/60Hz
Environment : Temp:25.5°C Huni:55%

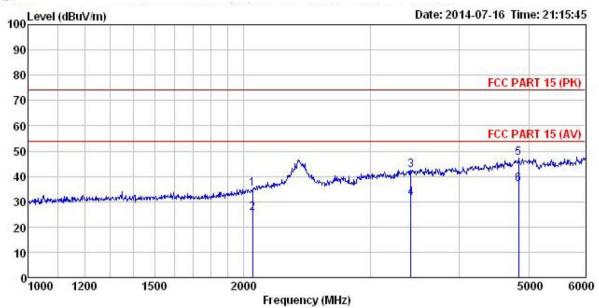
Test Engineer: Carey REMARK :

PHETTAL									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
-	MHz	dBu₹	dB/m	₫B	dB	dBuV/m	dBuV/m	<u>dB</u>	
1	34.760	35.63	12.30	0.48	29.95	18.46	40.00	-21.54	QP
2	39.024	40.56	13.34	0.51	29.91	24.50	40.00	-15.50	QP
2	44.120	36.76	13.56	0.55	29.87	21.00	40.00	-19.00	QP
4	94.760	44.68	12.84	0.93	29.55	28.90	43.50	-14.60	QP
4	160.346	36.43	8.67	1.33	29.13	17.30	43.50	-26.20	QP
6	197.893	31.82	10.57	1.38	28.84	14.93	43.50	-28.57	QP



Above 1GHz

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : 537RF Condition

Pro

EUT : GSM mobile phone

Model : MO7 : PC mode Test mode

Power Rating: 120V/60Hz Environment: Temp:25.5°C Huni:55%

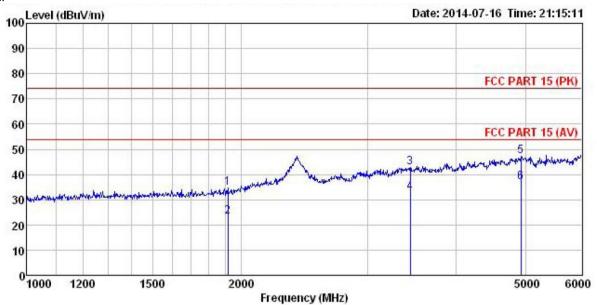
Test Engineer: Carey REMARK :

123456

	Freq			ntenna Cable Factor Loss			Limit Line	Over Limit	Remark	
i.i.	MHz	—dBu∀	— <u>dB</u> /m		<u>d</u> B	dBuV/m	dBuV/m	<u>dB</u>		
	2055.023	44.34	26.45	4.94	40.67	35.06	74.00	-38.94	Peak	
	2055.023	34.56	26.45	4.94	40.67	25.28	54.00	-28.72	Average	
	3418.313	46.52	28.53	6.41	38.96	42.50	74.00	-31.50	Peak	
	3418.313	35.36	28.53	6.41	38.96	31.34	54.00	-22.66	Average	
	4839.195	46.90	31.55	8.94	40.19	47.20	74.00	-26.80	Peak	
	4839.195	36.62	31.55	8.94	40.19	36.92			Average	



Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : 537RF : GSM mobile phone Condition

Pro

EUT

Model : MO7 Test mode : PC mode Power Rating: 120V/60Hz Environment: Temp:25.5°C Huni:55%

Test Engineer: Carey REMARK :

LMARL	. :								
	Fred		Antenna Factor				Limit	Over	Remark
	rreq	Level	ractor	1033	ractor	rever	Line	LIMIT	Kemark
-	MHz	dBu∜	dB/m	₫B	₫B	dBuV/m	dBuV/m	₫B	
1	1912.893	44.91	25.81	4.76	40.90	34.58	74.00	-39.42	Peak
2	1912.893	33.68	25.81	4.76	40.90	23.35	54.00	-30.65	Average
3	3449.074	47.12	28.67	6.36	39.21	42.94	74.00	-31.06	Peak
4	3449.074	37.08	28.67	6.36	39.21	32.90	54.00	-21.10	Average
5	4926.683	46.72	31.61	9.04	40.08	47.29	74.00	-26.71	Peak
6	4926, 683	36, 15	31.61	9, 04	40.08	36, 72	54,00	-17.28	Average