

## FCC Part 22/24 Compliance Test Report

<b>Test Report no.:</b>	FCC_Cellular_RM-1135_02.docx	<b>Date of Report:</b>	15-Jun-2015
<b>Number of pages:</b>	5	<b>Customer's Contact person:</b>	Hu Dongji
<b>Testing laboratory:</b>	TCC Microsoft Beijing Laboratory Beijing Economic and Technological Development Area No.5 Donghuan Zhonglu Beijing PRC China 100176 Tel. +86 10 8711 8888 Fax. +86 10 8711 4550	<b>Customer:</b>	Microsoft Beijing Economic and Technological Development Area No.5 Donghuan Zhonglu Beijing PRC China 100176 Tel. +86 10 8711 8888 Fax. +86 10 8711 4550
<b>FCC listing no.:</b>	975940		
<b>IC recognition no.:</b>	661AH-1		
<b>Tested devices/ accessories:</b>	<b>Phone RM-1135 / Battery BL-5CB</b>		
<b>FCC ID:</b>	PYARM-1135	<b>IC:</b>	-
<b>Supplement reports:</b>	-		
<b>Testing has been carried out in accordance with:</b>	CFR 47, FCC rules Parts 22/24, TIA-603-C-2004 and IC standards, RSS-GEN (Issue 4, November 2014), RSS-133 (Issue 6, January 2013), RSS-132 (Issue 3, January 2013). Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		
<b>Documentation:</b>	The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 15 years at TCC Microsoft.		
<b>Test Results:</b>	<b>The EUT complies with the requirements in respect of all parameters subject to the test.</b> The test results relate only to devices specified in this document		
<b>Date and signature for the contents:</b>			

**Ma Emma, Specialist, EMC**

# 1. Summary for FCC Part 22/24 Compliance Test Report

Date of receipt	02-Jun-2015
Testing completed	12-Jun-2015
The customer's contact person	Hu Dongji
Test Plan referred to	T:\Projects\RM-1135\TestPlan\RS_testplan_RM-1135.xlsm
Notes	-
Document name	FCC_Cellular_RM-1135_02.docx

## 1.1. EUT and Accessory Information

The EUT is a mobile phone with following features:  
 GSMThe EUT is tested with maximum rated TX power.

Devices under tests

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-1135	004402741723757	0240	-	10.02.14	55005
Battery	BL-5CB	495540W094S13100967;0670619	-	-	-	54985

## 1.2. Summary of Test Results

**GSM 1900:**

Section in CFR 47	Section in RSS-GEN or RSS-133	Name of the test	Result
§2.1046(a)	6.4	Conducted RF output power	NP
§24.232(b)	6.4	Radiated RF output power	PASSED
N/A	6.4	Peak to average power ratio	NP
§2.1049(h)	6.6	99 % occupied bandwidth	NP
§24.238(a)	6.5	Band edge compliance	NP
§24.238(a), §2.1051	6.5	Spurious emissions at antenna terminals	NP
§24.238(a), §2.1053	6.5	Spurious radiated emissions	NP
§2.1055(a)	6.3	Frequency stability, temperature variation	NP
§2.1055(d)	6.3	Frequency stability, voltage variation	NP

**GSM 850:**

Section in CFR 47	Section in RSS-GEN or RSS-132	Name of the test	Result
§2.1046(a), 22.913(a)	4.4	Conducted RF output power	NP
§22.913(a)	4.4	Radiated RF output power	PASSED
N/A	5.4	Peak to average power ratio	NP
§2.1049(h)	6.6	99 % occupied bandwidth	NP
§22.917(a)	4.5	Band edge compliance	NP
§22.917(a), §2.1051	4.5	Spurious emissions at antenna terminals	NP
§22.917(a), §2.1053	4.5	Spurious radiated emissions	NP
§2.1055(a)	4.3	Frequency stability, temperature variation	NP
§2.1055(d)	4.3	Frequency stability, voltage variation	NP

PASSED  
 FAILED  
 NP

The EUT complies with the essential requirements in the standard.  
 The EUT does not comply with the essential requirements in the standard.  
 The test was not performed by the TCC Microsoft Laboratory.

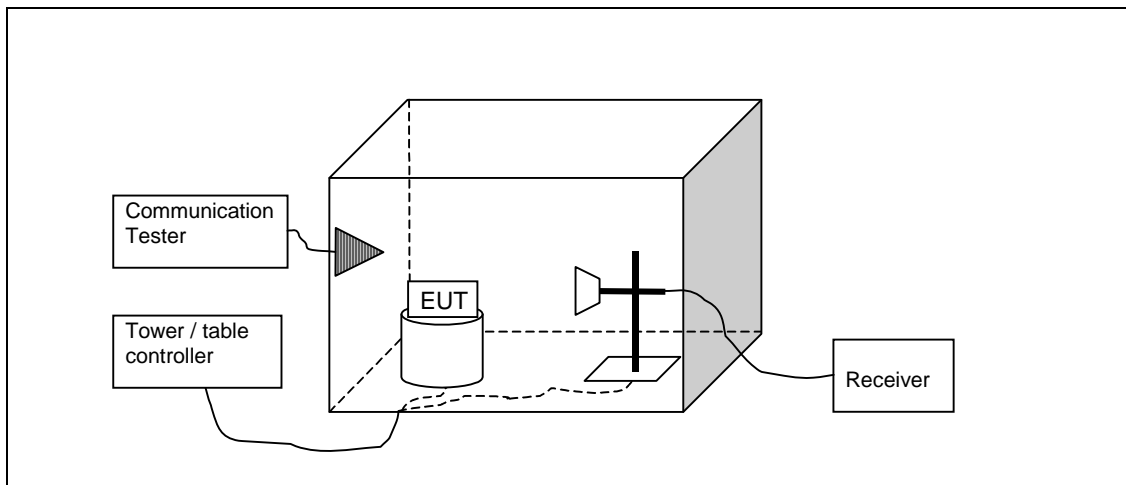
## CONTENTS

<b>1. Summary for FCC Part 22/24 Compliance Test Report .....</b>	<b>2</b>
1.1. EUT and Accessory Information .....	2
1.2. Summary of Test Results .....	2
<b>2. Radiated RF output power (FCC §24.232(b), §22.913(a), RSS-133 6.4, RSS-132 4.4).....</b>	<b>4</b>
2.2. Test method and limit .....	4
2.3. GSM 850 test results .....	5
2.4. GSM 1900 test results .....	5

## 2. Radiated RF output power (FCC §24.232(b), §22.913(a), RSS-133 6.4, RSS-132 4.4)

<b>EUT with DUT number</b>	RM-1135, DUT 55005
<b>Accessories with DUT numbers</b>	BL-5CB, DUT 54985
<b>Operation Voltage [V] / [Hz]</b>	Nominal
<b>Results</b>	PASSED
<b>Remarks</b>	-
<b>Temp [°C] / Humidity [%RH] / Air Pressure [kPa]</b>	20/61/100.03
<b>Date of measurements</b>	08-Jun-2015
<b>Measured by</b>	Ma Emma

### 2.1.1 Test setup



### 2.2. Test method and limit

The measurement is made according to TIA-603-C-2004 as follows:

The measurement is performed in the Anechoic Chamber with absorbers on the floor and measuring antenna at fixed height using 2-axis EUT position system. The turntable is rotated 360 degrees and this is repeated for both horizontal and vertical receive antenna polarizations.

The EUT is placed on a nonconductive plate at 170 cm height.

The substitution method is used. The measurement results are obtained as described below:

$$P[dBm] = P_{SUBST\ TX} + P_{MEAS} - P_{SUBST\ RX} - L_{SUBST\ CABLES} + G_{SUBST\ TX\ ANT}$$

Where  $P_{SUBST\ TX}$  is signal generator level.  $P_{MEAS}$  is measured power level from the EUT.  $P_{SUBST\ RX}$  is measured power level in substitute measurement.  $L_{SUBST\ CABLE}$  is the loss of the cable between the signal generator and the substitution antenna and  $G_{SUBST\ TX\ ANT}$  is substitution antenna gain.

Limits for radiated RF output power measurements

Frequency range [MHz]	Limit [W]	Limit [dBm]
1850 - 1910	2 EIRP	33
824 - 849	7 ERP	38.5

### 2.3. GSM 850 test results

RMS detector

Channel / f <sub>c</sub> [MHz]	ERP [dBm]	ERP [W]	P <sub>MEAS</sub> [dBm]	P <sub>SUBST TX</sub> [dBm]	P <sub>SUBST RX</sub> [dBm]	G <sub>SUBST TX ANT</sub> [dBd]	L <sub>SUBST CABLE</sub> [dB]	Polarisation	Result
128 / 824.2	29.38	0.867	-17.49	+10	-30.13	-3.2	3.9	VERTICAL	PASSED
190 / 836.6	28.95	0.785	-17.89	+10	-29.39	-3.1	3.9	VERTICAL	PASSED
251 / 848.8	28.95	0.785	-17.1	+10	-30.59	-3.4	3.9	VERTICAL	PASSED

### 2.4. GSM 1900 test results

RMS detector

Channel / f <sub>c</sub> [MHz]	EIRP [dBm]	EIRP [W]	P <sub>MEAS</sub> [dBm]	P <sub>SUBST TX</sub> [dBm]	P <sub>SUBST RX</sub> [dBm]	G <sub>SUBST TX ANT</sub> [dBd]	L <sub>SUBST CABLE</sub> [dB]	Polarisation	Result
512 / 1850.2	27.73	0.593	-17.49	+10	-30.86	10.26	5.9	VERTICAL	PASSED
661 / 1880	27.38	0.547	-17.89	+10	-31.05	10.22	6	VERTICAL	PASSED
810 / 1909.8	28.21	0.662	-17.1	+10	-31.31	10.2	6.2	VERTICAL	PASSED