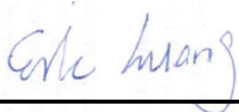


# FCC SAR Test Report

APPLICANT : Motorola Mobility, LLC  
EQUIPMENT : Mobile Cellular Phone  
BRAND NAME : Motorola  
MODEL NAME : 4246  
FCC ID : IHDT56QC5  
STANDARD : FCC 47 CFR Part 2 (2.1093)  
ANSI/IEEE C95.1-1992  
IEEE 1528-2003

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and had been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



Reviewed by: Eric Huang / Deputy Manager



Approved by: Jones Tsai / Manager



## SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1<sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



### Table of Contents

- 1. Statement of Compliance ..... 3
- 2. Administration Data ..... 3
- 3. Guidance Standard ..... 4
- 4. Equipment Under Test (EUT) ..... 4
  - 4.1 General Information ..... 4
  - 4.2 Maximum Tune-up Limit..... 5
- Appendix A. GSM Reference Report
- Appendix B. UMTS Reference Report
- Appendix C. BT/WiFi Reference Report

### Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA4N1482-14	Rev. 01	Initial issue of report	Mar. 06, 2015



### 1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility, LLC, Mobile Cellular Phone, 4246**, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary			
		Head (Separation 0mm) 1g SAR (W/kg)	Body-worn (Separation 15mm) 1g SAR (W/kg)	Wireless Router (Separation 10mm) 1g SAR (W/kg)	Highest Simultaneous Transmission 1g SAR (W/kg)
PCE	GSM850	0.43	0.45	0.55	1.56
	GSM1900	0.26	0.22	0.53	
	WCDMA Band V	0.50	<b>0.59</b>	0.74	
	WCDMA Band II	0.67	0.52	<b>1.34</b>	
DTS	2.4GHz WLAN	<b>0.89</b>	0.09	0.15	1.56
DSS	Bluetooth	0.15	0.01	0.02	1.36

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

### 2. Administration Data

Testing Laboratory	
Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978

Applicant	
Company Name	Motorola Mobility, LLC
Address	222 W. Merchandise Mart Plaza, Chicago IL 60654 USA

Manufacturer	
Company Name	Motorola Mobility, LLC
Address	222 W. Merchandise Mart Plaza, Chicago IL 60654 USA

### **3. Guidance Standard**

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2003
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r03
- FCC KDB 865664 D02 SAR Reporting v01r01
- FCC KDB 447498 D01 General RF Exposure Guidance v05r02
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03
- FCC KDB 941225 D06 Hotspot Mode SAR v02

### **4. Equipment Under Test (EUT)**

#### **4.1 General Information**

Product Feature & Specification	
<b>Equipment Name</b>	Mobile Cellular Phone
<b>Brand Name</b>	Motorola
<b>Model Name</b>	4246
<b>FCC ID</b>	IHDT56QC5
<b>Wireless Technology and Frequency Range</b>	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
<b>Mode</b>	<ul style="list-style-type: none"> <li>• GSM/GPRS/EGPRS</li> <li>• RMC/AMR 12.2Kbps</li> <li>• HSDPA</li> <li>• HSUPA</li> <li>• DC-HSDPA</li> <li>• 802.11b/g/n HT20</li> <li>• Bluetooth v3.0+EDR , Bluetooth v4.0-LE</li> </ul>
<b>GSM / (E)GPRS Transfer mode</b>	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
<b>EUT Stage</b>	Identical Prototype
<b>Remark:</b>	
1. This report does not have any RF exposure assessment, the GSM RF exposure results please refer to FCC ID: IHDT56QC1 and Appendix A, the UMTS RF exposure results please refer to FCC ID: IHDT56QC2 and appendix B, the BT / WiFi RF exposure results please refer FCC ID: IHDT56QC4 and appendix C.	



**4.2 Maximum Tune-up Limit**

Mode	Burst average power(dBm)	
	GSM 850	GSM 1900
GSM (GMSK, 1 Tx slot)	33.50	30.50
GPRS (GMSK, 1 Tx slot)	33.50	30.50
GPRS (GMSK, 2 Tx slots)	30.50	27.50
GPRS (GMSK, 3 Tx slots)	28.75	25.75
GPRS (GMSK, 4 Tx slots)	27.50	24.50
EDGE (8PSK, 1 Tx slot)	28.00	27.00
EDGE (8PSK, 2 Tx slots)	25.50	24.50
EDGE (8PSK, 3 Tx slots)	23.25	22.25
EDGE (8PSK, 4 Tx slots)	22.00	21.00

Band / Mode			Average power(dBm)
WCDMA	Band V // II	AMR / RMC 12.2Kbps	24.0
		HSDPA Subtest-1	23.0
		DC-HSDPA Subtest-1	23.0
		HSUPA Subtest-5	23.0

Mode			Average Power (dBm)	
2.4GHz WLAN	802.11b		18.00	
	802.11g	CH 1	16.00	
		CH 6	16.00	
		CH 11	14.00	
	802.11n-HT20	CH 1	16.00	
		CH 6	16.00	
		CH 11	14.00	
Bluetooth	v3.0+EDR	1Mbps	Low	13.00
			Middle	12.00
			High	10.00
		2Mbps	Low	10.00
			Middle	10.00
			High	8.00
	v4.0+LE	3Mbps	Low	10.00
			Middle	10.00
			High	8.00
		v4.0+LE	Low	10.50
			Middle	12.00
			High	9.00