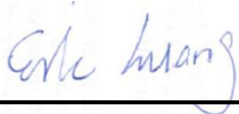


RF Exposure Evaluation Report

APPLICANT : Hewlett-Packard Company
EQUIPMENT : WWAN Module Card
BRAND NAME : hp
MODEL NAME : MU736
FCC ID : B94HNHWWR
STANDARD : 47 CFR Part 2.1093
FCC KDB 447498 D01 v05r02

The product was installed into Notebook PC (Brand Name: Hewlett-Packard, Model Name: HSTNN-W04C) during evaluation.

We, SPORTON INTERNATIONAL INC., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093 and pass the limit. 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 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan R.O.C.



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA4D2201	Rev. 01	Initial issue of report	Jan. 13, 2015
FA4D2201	Rev. 02	Revise GSM850 GPRS 4TX Slots Tune up in page 4.	Feb. 12, 2015

1. Administration Data

Testing Laboratory	
Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978

Applicant	
Company Name	Hewlett-Packard Company
Address	3000 Hanover Street, Palo Alto, California 94304, USA

Manufacturer	
Company Name	Huawei Technologies Co., Ltd.
Address	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzheng, 518129, P.R.C.

2. General Information

2.1 Description of Device Under Test (DUT)

Product Feature & Specification	
Equipment	WWAN Module Card
Brand Name	hp
Model Name	MU736
FCC ID	B94HNHWWR
Wireless Technology and Frequency Range	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 IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz
Mode	• GSM/GPRS/EGPRS • RMC 12.2Kbps • HSDPA • HSUPA

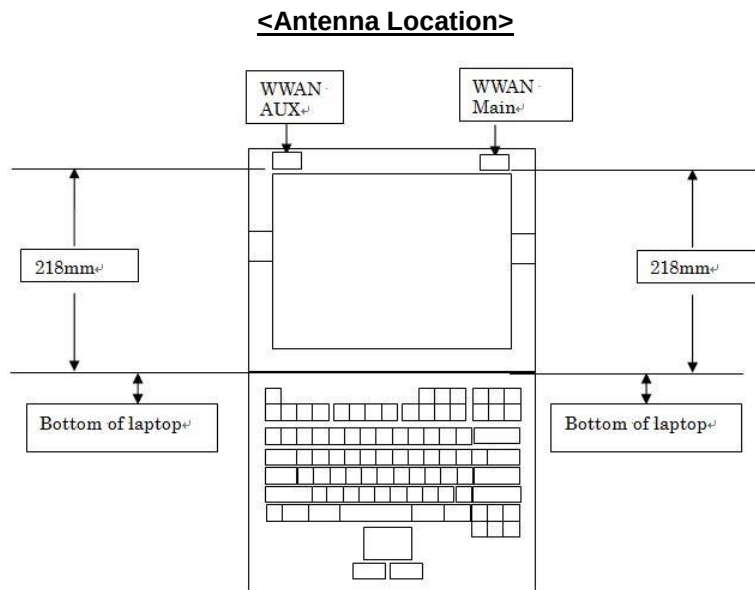
Host Information				
Host	Notebook PC			
Brand Name	hp			
Model Name	HSTNN-W04C			
Antenna Type	PIFA Antenna			
Accessory				
Battery 1	Brand Name	hp	Model Name	HSTNN-LB6Q
	Power Rating	11.25Vdc 3030mAh	Type	Li-ion
Antenna Information				
Main		Aux		
Ant. Type	PIFA	Ant. Type	PIFA	
Model No.	025.9009P.0001 (81EAAR15.GDN)	Model No.	025.9009Q.0001 (81EAAR15.GDP)	
Peak Gain (dBi)	835MHz: 0.10	Peak Gain (dBi)	835MHz: -2.38	
	1750MHz: 0.79		1750MHz:0.66	
	1900MHz: -1.01		1900MHz: -1.17	

3. Maximum RF output power among production units

Mode	Burst average power (dBm)	
	GSM 850	GSM 1900
GPRS (GMSK, 1 Tx slot)	33.50	30.50
GPRS (GMSK, 2 Tx slots)	31.00	28.00
GPRS (GMSK, 3 Tx slots)	29.50	26.50
GPRS (GMSK, 4 Tx slots)	28.00	25.00
EDGE (8PSK, 1 Tx slot)	28.00	27.00
EDGE (8PSK, 2 Tx slots)	25.50	24.50
EDGE (8PSK, 3 Tx slot)	24.00	23.00
EDGE (8PSK, 4 Tx slots)	22.50	21.50

Mode	Burst average power (dBm)		
	WCDMA Band V	WCDMA Band II	WCDMA Band IV
RMC 12.2Kbps	24.50	24.50	24.50
HSDPA Subtest-1	24.50	24.50	24.50
HSUPA Subtest-5	24.50	24.50	24.50

4. RF Exposure Evaluation



General Note:

1. Maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. Per KDB 447498 D01v05r02, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D01v05r02, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
 - a) when the distance is > 50 mm exclusion threshold is "mW"
 - b) $[\text{Threshold at 50 mm in step 1}] + (\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)$ mW, at 100 MHz to 1500 MHz
 - c) $[\text{Threshold at 50 mm in step 1}] + (\text{test separation distance} - 50 \text{ mm}) \cdot 10$ mW at > 1500 MHz and ≤ 6 GHz

Exposure Position	Wireless Interface	GPRS 850 Class 11	GPRS 1900 Class 11	WCDMA Band V	WCDMA Band IV	WCDMA Band II
	Calculated Frequency	848MHz	1909MHz	846MHz	1750MHz	1907MHz
	Maximum power (dBm)	25.24	22.24	24.5	24.5	24.5
	Maximum rated power(mW)	334	167	282	282	282
Bottom of Laptop	Separation distance(mm)	218.00				
	exclusion threshold	1113.0	1789.0	1111.0	1793.0	1789.0
	Testing required?	No	No	No	No	No

Conclusion: the WWAN antenna to bottom of laptop distance is 218mm, according to KDB 447498 D01v05r02 SAR test exclusion, the SAR testing is not required.