

第三代行動通信終端設備(WCDMA)試驗報告

申請廠商 台灣惠普資訊科技股份有限公司
115臺北市南港區經貿二路66號10樓

製造廠商 華為技術有限公司

產品名稱 LTE Module(內含GSM,DCS,WCDMA,LTE700/900/1800功能)

廠牌 HUAWEI

型號 ME906s-158

發射功率 WCDMA / HSDPA FDD: 23.13 dBm, Class 3
WCDMA / HSDPA FDD 1頻段:

工作頻率 發射頻率範圍1920MHz至1980MHz
接收頻率範圍2110MHz至2170MHz
Couple Antenna,
1. Supplier: INPAQ

天線型式/增益 Part No.: 6036B0215701 (WA-P-LTE12-02-008) (Main), Gain: -5.51 dBi
(1920MHz至1980MHz)
Part No.: 6036B0215801 (WA-P-LTE8-02-024) (Aux), Gain: -7.38 dBi
(1920MHz至1980MHz)

實驗室資訊

台灣檢驗科技股份有限公司 電子通訊實驗室

新北市新北產業園區五工路134號

認證有效期間：107年06月14日起至110年06月13日止

認可頻率範圍：PLMN08

受理日期 民國107年07月24日

完成日期 民國107年08月31日

張俊卿



報告簽署人

張俊卿 簽章

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測試標準

國家通訊傳播委員會電信技術規範【陸地行動 08】(PLMN08)

民國 107 年 8 月 14 日版本

待測裝置已於台灣檢驗科技股份有限公司電子通訊實驗室，依據國家通訊傳播委員會於中華民國一百零四年十二月頒佈之第三代行動通信終端設備技術規範【陸地行動 08】(PLMN08)。

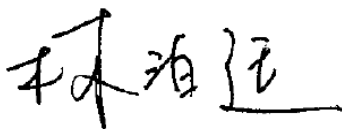
台灣檢驗科技股份有限公司根據此條文規範項目測試，測試各項數據皆能符合此規範規定之限度值。

台灣檢驗科技股份有限公司依第三代行動通信終端設備技術規範【陸地行動 08】(PLMN08)製作測試結果報告，測試結果評判為合格。

備註：

1. 報告中所描述之測試結果和待測設備的架構組合，均根據實際量測情況作詳實的記錄，且本測試報告僅對上述待測設備樣品負責。
2. 此份報告未經本公司同意，不得部份摘錄複製使用。
3. 此裝置為 LTE Module(內含 GSM,DCS,WCDMA,LTE700/900/1800 功能)，適用於 Notebook Computer (商標：HP /型號：HSN-I20C)

測試人員：

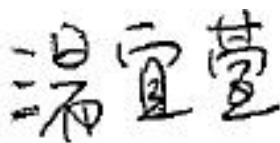


日期：

08/31/2018

林泊廷 / 工程師

報告製作：

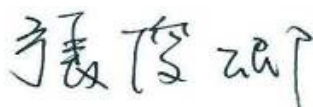


日期：

08/31/2018

湯宜瑩 / 行政

報告審核：



日期：

08/31/2018

張俊卿 / 經理

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測試實驗室資料:

實驗室認可登錄 : 中華民國實驗室認證體系

認可編號 : TAF 0513, 認可範圍PLMN08

測試場地 : 新北市新北產業園區五工路134號

實驗室名稱 : 台灣檢驗科技股份有限公司
電子通訊實驗室

實驗室地址 : 新北市新北產業園區五工路134號

電話 : 886-2-22993939

傳真 : 886-2-22982698

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實驗室之量測不確定度

量測項目	量測不確定度 (擴充不確定度)		
傳導干擾量測	電源線	0.15-30MHz	2.586 dB
輸出功率(傳導方式)	WCDMA		1.19 dB
頻率誤差量測	WCDMA		283 Hz
傳導輻射	150K-40GHz		3.779 dB

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1 WCDMA FDD 行動電話機檢測紀錄表(一)

項次	檢驗項目/合格標準	檢驗數據	結果判定
1.	最大發射輸出功率 Power class 1 : 33dBm +1/-3dB Power class 2 : 27dBm +1/-3dB Power class 3 : 24dBm +1/-3dB Power class 4 : 21dBm +2/-2dB	參考 2.5 節之量測結果	合格

註：1. 檢驗項目2,3,4,5,6,7及8項之測試頻道為低、中、高三個頻道，測試方法依據3GPP TS34.121,最新版本之相關規定。

2. 檢驗項目9須於待測設備操作、空閒模式（輻射干擾）及充電模式（電源端傳導干擾）下測試（無則免測）。

表一之一：

量測濾波器中心載波頻率偏移量 Δf (MHz)	在偏移中心載波頻率時其相對於載波功率之最大允許值 (dBc)	量測頻寬
2.5 – 3.5	$\left\{ -35 - 15 \cdot \left(\frac{\Delta f}{\text{MHz}} - 2.5 \right) \right\} \text{dBc}$	30 kHz
3.5 – 7.5	$\left\{ -35 - 1 \cdot \left(\frac{\Delta f}{\text{MHz}} - 3.5 \right) \right\} \text{dBc}$	1 MHz
7.5 – 8.5	$\left\{ -39 - 10 \cdot \left(\frac{\Delta f}{\text{MHz}} - 7.5 \right) \right\} \text{dBc}$	1 MHz
8.5 – 12.5	-49 dBc	1 MHz

表一之二：

頻率範圍	最大允許值 (Traffic mode)	最大允許值 (Idle mode)	測量方式
$9 \text{ kHz} \leq f < 150 \text{ kHz}$	-36 dBm /1 kHz	----	Conducted
$150 \text{ kHz} \leq f < 30 \text{ MHz}$	-36 dBm /10 kHz	----	Conducted
$30 \text{ MHz} \leq f < 1000 \text{ MHz}$	-36 dBm /100 kHz	-57 dBm /100 kHz	Conducted
$1 \text{ GHz} \leq f < 12.75 \text{ GHz}$	-30 dBm /1 MHz	-47 dBm /1 MHz	Conducted

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表一之三：

頻率範圍	測量頻寬	最大允許值
925 MHz < f < 935 MHz	100 kHz	-67 dBm
935 MHz < f < 960 MHz	100 kHz	-79 dBm
1805 MHz < f < 1880 MHz	100 kHz	-71 dBm
1893.5 MHz < f < 1919.6 MHz	300 kHz	-41 dBm

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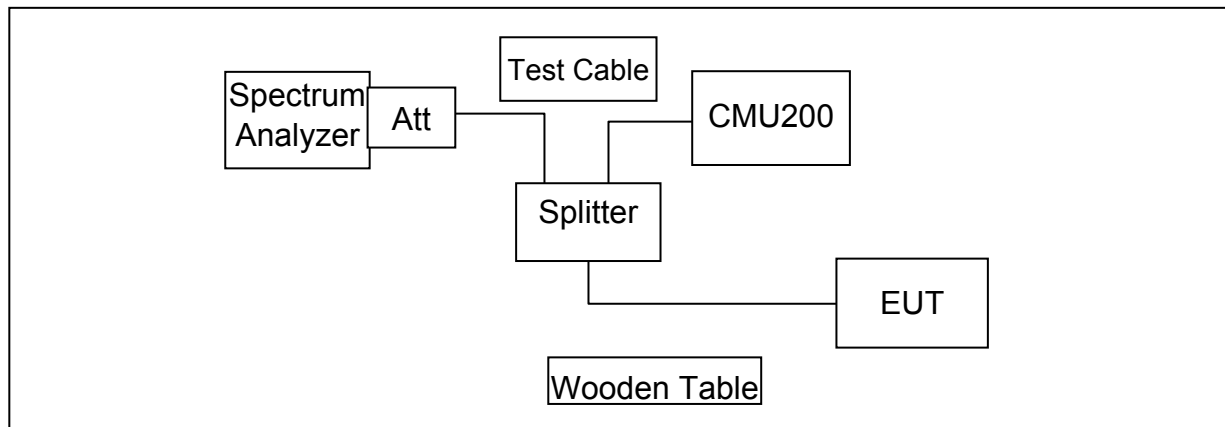
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2 最大發射輸出功率之量測

2.1 適用標準:

參考 PLMN08, 3.1.1 節規定

2.2 測試配置:



2.3 量測儀器設備:

Conducted Emission Test Site

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2018	06/19/2019
Communication Tester	Anritsu	MT8820C	6201107337	06/11/2018	06/10/2019
Coaxial Cables	Woken	00100A1F1A185C	RF08	12/24/2017	12/23/2018
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2018	06/12/2019
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Splitter	RF-LAMBDA	DOM35LW1A2	RF36	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF40	12/24/2017	12/23/2018
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2018	05/01/2019

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2.4 測試方法:

參考 3GPP TS34.121, 5.2.4 節規定

2.5 量測結果:

廠牌: HUAWEI

環境溫度: 22°C

測試者:

柯有廷

型號: ME906s-158

環境濕度: 63%

測試日期: 08/24/2018

UMTS B1	WCDMA	
	PK(dBm)	AV(dBm)
CH 9613	24.41	22.38
CH 9750	24.57	22.47
CH 9887	24.32	22.18

Max Power	tolerance
AV(dBm)	+2
22.67	-0.29
22.68	-0.21
23.13	-0.95

~ End of Report ~

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