



晶復科技股份有限公司

A Test Lab Techno Corp.

行動通信電信終端設備技術規範(WCDMA)試驗報告

報告編號 2103DR66

版本(Rev.) 00

產品名稱 金融交易終端機EFTPOS

申請廠商 虹堡科技股份有限公司

廠牌 CASTLES 

型式 (號) SATURN1000

產品試驗依據之標準 行動通信電信終端設備技術規範 109 年 9 月 25 日

報告發行日期 110 年 06 月 08 日

填發本型式認可報告之試驗機構 (認可代號)

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財團法人全國認證基金會

認證編號： 1330

認證有效期間： 108.09.06 ~ 111.09.05

認可能量範圍： WCDMA 1920 MHz to 1980 MHz ; 2110 MHz to 2170 MHz
1710 MHz to 1785 MHz ; 1805 MHz to 1880 MHz
2500 MHz to 2570 MHz ; 2620 MHz to 2690 MHz
885 MHz to 915 MHz ; 930 MHz to 960 MHz

免責聲明

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報告修訂紀錄

版本 (Rev.)	發行日期	修訂內容	修訂者
00	110 年 04 月 20 日	初版發行	江玉
01	110 年 06 月 08 日	更新 1.1 章節(P.6)	江玉

行動通信電信終端設備技術規範(WCDMA)測試證明書

產品名稱：金融交易終端機 EFTPOS

廠牌：CASTLES 

型號：SATURN1000

申請廠商：虹堡科技股份有限公司

申請者地址：新北市新店區北新路3段207-5號6樓

製造廠商：虹堡科技股份有限公司

製造商地址：新北市新店區北新路3段207-5號6樓

待測物電壓：DC 5 V, 2 A & 9 V, 3.3 A

量測規範：行動通信電信終端設備技術規範 109 年 9 月 25 日

試驗實驗室：晶復科技股份有限公司(桃園市八德區長安街140-1號)

樣品接受日期：109 年 10 月 21 日

試驗日期：109 年 11 月 22 日

報告中所描述之測試結果與待測設備之架構組合，均根據實際量測情況作詳實的記錄。

由測試結果顯示，上述待測設備樣機確實已符合行動通信電信終端設備技術規範(WCDMA)所規定的各項限制值。

特此證明！

審核者：



(呂 宗 霖)

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1. 一般敘述

1.1 待測設備一般敘述

本敘述僅針對產品簡單說明之，其他詳細之規格請參考使用說明書。

產 品 名 稱	金融交易終端機 EFTPOS			
廠 牌	CASTLES 			
型 號	SATURN1000			
額 定 電 源	DC 5 V, 2 A & 9 V, 3.3 A			
I M E I N o .	IMEI1: 863130040171440 IMEI2: 863130040171457			
使 用 頻 帶	WCDMA Band 1 FDD: UL: 1920 - 1980 MHz / DL: 2110 - 2170 MHz WCDMA Band 8 FDD: UL: 885 - 915 MHz / DL: 930 - 960 MHz			
調 變 方 式	UL : BPSK DL : QPSK			
天 線 資 訊	廠牌	型號	型態	增益值
	ARISTOTLE	RFA-LTE-JP169-70-130	Dipole antenna	WCDMA Band 1: -0.39 dBi WCDMA Band 8: -1.19 dBi
最 大 輸 出 功 率	WCDMA Band 1: 22.78 dBm			
	WCDMA Band 8: 22.87 dBm			

註：此產品為雙 SIM 設計，經驗證後 SIM1 conducted power 最大；因此報告僅記錄 SIM1 結果數據。

輸出/輸入埠說明：

輸 出 / 入 埠		數量	介面內容說明
1	Smart Card Port	1	連接至 Smart Card
2	SAM Port	2	連接至 SAM Card
3	SIM Port	2	連接至 SIM Card
4	Micro SD Card Port	1	連接至 Micro SD Card
5	Audio Port	1	連接至耳機麥克風
6	USB Type-C Port	1	連接至 Notebook/電源供應器
7	DC Power Port	1	連接至電源供應器
8	磁卡 Port	1	連接至磁卡(此 Port 動作為刷取磁卡)
9	充電 Port	1	連接至座充(座充尚待開發中)

附屬裝置表:

裝置名稱	廠牌	型號	備註
電池	CASTLES	SATURN1000	DC 3.65 V, 5840 mAh
內建固定式電池	MITSUBISHI	CR2032	DC 3 V, 225 mAh
交換式電源供應器(1)	LUCENT TRANS	1A52-SR52A	INPUT : 100-240 VAC, 50-60 Hz, 0.3 A OUTPUT : 5.0 VDC, 2.0 A Cable out : Non-Shielded, 1.5 m
交換式電源供應器(2)	CASTLES	PW04-945A	INPUT : 100-240 VAC, 50/60 Hz, 1 A OUTPUT : 9.0 VDC, 4.5 A Cable out : Non-Shielded, 1.5 m *選配
電源線	PHINO	PHP-301+PHS-301(7A C13)	Non-Shielded, 1.7 m *選配，與交換式電源供應器(2)搭配出貨。

1.2 其他相關聲明

☒	申請新的型式檢驗認可的測試。
☐	已取得型式檢驗認可之商品,因設計變更而重新測試 (變更內容請參考產品概述). 登錄號碼: XXXXXXXX

2. 量測儀器及測試配置說明

2.1 量測設備

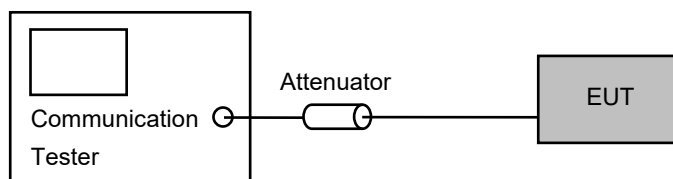
Test Period: Nov. 22, 2020

測試者：歐陽良相

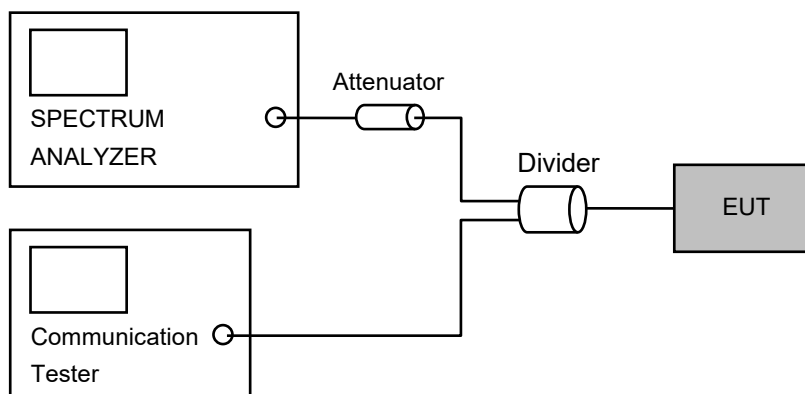
名 稱	廠 牌	型 號	序 號	本次校驗日期	校驗年限
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	03/31/2020	1 year
Divider	Warison	WDIV-210.5-26.5S20	WR222AM2B2	11/02/2020	1 year
Power Supply	KEITHLEY	2303	4045290	02/11/2020	1 year
Universal Radio Communication Tester	R&S	CMU200	112387	03/15/2020	1 year
SPECTRUM ANALYZER	Agilent	E4445A	MY45300744	12/05/2019	1 year

2.2 測試架構圖

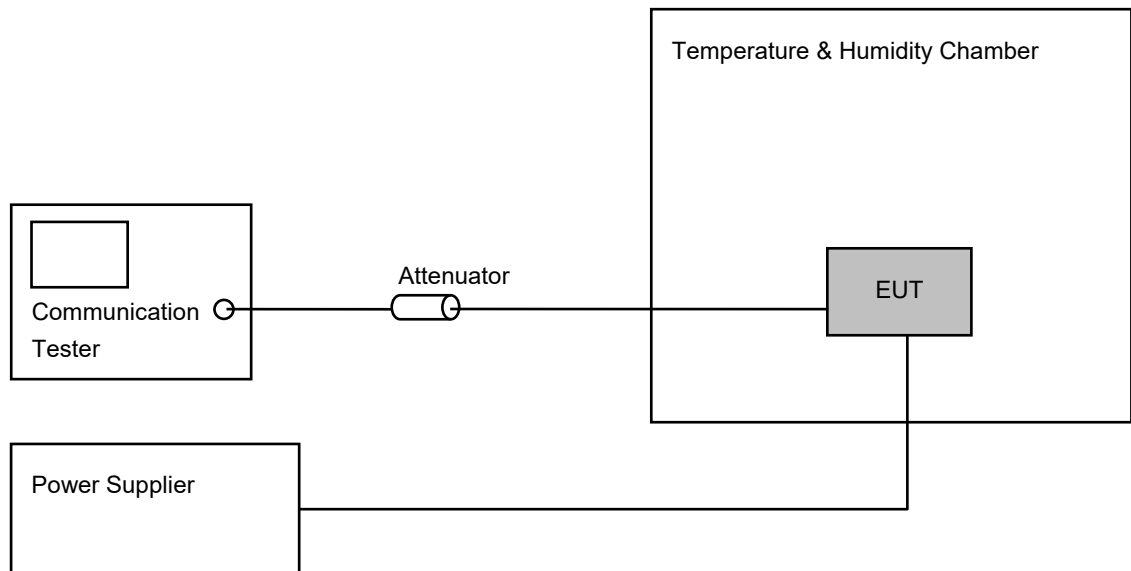
- 最大發射輸出功率
- 功率控制狀態下之最小平均輸出功率
- 佔用頻道頻寬
- ACLR
- 發射頻譜波罩



- 混附波輻射
- 工作頻帶
- 收發頻率間隔
- 標稱頻道間隔



■ 頻率穩定性



2.3 量測不確定度

下列量測不確定水準是參照量測儀器 CISPR 16-4-2 所規定之不確定度。

Test Item	Uncertainty (dB)
最大輸出功率 (傳導)	1.1 dB
發射頻譜波罩 (傳導)	1.1 dB
混附波輻射(傳導)	2.5 dB
相鄰頻道洩漏功率比 (傳導)	1.1 dB
操作頻率、頻率穩定度 (Frequency Error and Frequency Stability)	$1.2 \times 10^{-7} * F_c$ (Hz)
工作頻帶、放發頻率間隔、標稱頻道間隔 (頻率)	$1.2 \times 10^{-7} * F_c$ (Hz)
電波功率密度(傳導)	1.1 dB
佔用頻道頻寬 (傳導)	$1.2 \times 10^{-7} * F_c$ (Hz)

2.4 試驗環境

產品測試時之實驗室環境條件如下:

項 目	實 際	常態環境要求
溫度 Temperature (°C)	18 - 28	15 - 35
濕度 Humidity (%RH)	45 - 75	25 - 75

電池種類及電壓的計算
☐ AC mains V_{Nom} = 標稱電壓 V_{Low} = 標稱電壓 * 0.9 V_{High} = 標稱電壓 * 1.1
☐ Regulated lead acid battery V_{Nom} = 標稱電壓 * 1.1 V_{Low} = 標稱電壓 * 0.9 V_{High} = 標稱電壓 * 1.3
Non regulated batteries : ☐ Leclanche V_{Nom} = 標稱電壓 V_{Low} = 標稱電壓 * 0.85 V_{High} = 標稱電壓
☒ Lithium V_{Nom} = 標稱電壓 * 1.1 V_{Low} = 標稱電壓 * 0.95 V_{High} = 標稱電壓 * 1.1
☐ Mercury/nickel & cadmium V_{Nom} = 標稱電壓 V_{Low} = 標稱電壓 * 0.9 V_{High} = 標稱電壓 * 1.1

測試條件			
工作電壓 DC(範圍) :	標稱電壓	3.65	V
	低極端電壓	3.46	V
	關機電壓	3.44	V
	常態電壓	4.02	V
	高極端電壓	4.02	V
測試溫度(範圍) :	低極端溫度	-10	(°C)
	常態溫度	20	(°C)
	高極端溫度	55	(°C)

3. 測試項目與結果判定總表

項次	檢驗項目	適用標準	試驗結果	結果判定
1	工作頻帶	行動通信電信終端設備技術規範, 6.4.1節	請參閱第4節	符合
2	收發頻率間隔	行動通信電信終端設備技術規範, 6.4.1節	請參閱第4節	符合
3	標稱頻道間隔	行動通信電信終端設備技術規範, 6.4.1節	請參閱第4節	符合
4	最大發射出功率	行動通信電信終端設備技術規範, 6.4.2節	請參閱第4節	符合
5	頻率穩定度	行動通信電信終端設備技術規範, 6.4.3節	請參閱第4節	符合
6	功率控制狀態下之 最小平均功率輸出	行動通信電信終端設備技術規範, 6.4.4節	請參閱第4節	符合
7	佔用頻道頻寬	行動通信電信終端設備技術規範, 6.4.5節	請參閱第4節	符合
8	發射頻譜波罩	行動通信電信終端設備技術規範, 6.4.6節	請參閱第4節	符合
9	ACLR	行動通信電信終端設備技術規範, 6.4.7節	請參閱第4節	符合
10	混附波輻射	行動通信電信終端設備技術規範, 6.4.8節	請參閱第4節	符合
11	災防告警細胞廣播 訊息接收功能	行動通信電信終端設備技術規範, 6.10節	N/A	不適用 (Note)
12	電波功率密度	行動通信電信終端設備技術規範, 6.6.2節	請參閱第4節	符合

Note: 此產品不具有語音通話功能，因此不需評估災防告警細胞廣播訊息。

Decision Rule

■ Uncertainty is not included.

□ Uncertainty is included.

4. 檢驗紀錄

4.1 測試項目總表

Band 1					
項次	檢驗項目及標準	檢驗結果			判定
1	工作頻帶 Tx : 1920 - 1980 MHz Rx : 2110 - 2170 MHz	Tx : 1920 - 1980 MHz Rx : 2110 - 2170 MHz			符 合
2	收發頻率間隔 190 MHz	低頻道	頻道 9612	190 MHz	符 合
		中頻道	頻道 9750	190 MHz	
		高頻道	頻道 9888	190 MHz	
3	標稱頻道間隔 5 MHz	低頻道	頻道 9612	5 MHz	符 合
		中頻道	頻道 9750	5 MHz	
		高頻道	頻道 9888	5 MHz	
4	最大發射輸出功率 24 dBm +1.7/-3.7 dB (Class 3)	SIM1			符 合
		低頻道	頻道 9612	22.65 dBm	
		中頻道	頻道 9750	22.71 dBm	
		高頻道	頻道 9888	22.78 dBm	
		SIM2			
		低頻道	頻道 9612	22.39 dBm	
		中頻道	頻道 9750	22.48 dBm	
		高頻道	頻道 9888	22.53 dBm	

項次	檢驗項目及標準	判定
5	頻率穩定度 終端設備於常態環境常態電壓、低極端溫度低極端電壓、低極端溫度高極端電壓、高極端溫度低極端電壓、高極端溫度高極端電壓等五種測試環境下，分別進行頻率量測，經 0/2/5/10 分鐘量測結果，頻率應維持在頻道之主波頻率 0.1ppm 以內。	符合

工作頻段				Band 1								
檢驗結果												
Time	0 分鐘			2 分鐘			5 分鐘			10 分鐘		
Channel	9612	9750	9888	9612	9750	9888	9612	9750	9888	9612	9750	9888
Frequency (MHz)	1922.4	1950	1977.6	1922.4	1950	1977.6	1922.4	1950	1977.6	1922.4	1950	1977.6
測試溫度/ 電壓	Deviation (ppm)											
TL/VL	-0.006	-0.004	0.003	0.002	-0.001	0.004	-0.002	-0.001	0.001	0.003	0.003	0.003
TL/VH	0.000	-0.003	0.004	-0.004	0.003	-0.004	-0.003	-0.004	0.004	-0.004	0.001	-0.005
TN/VN	0.001	-0.002	0.000	0.001	0.001	0.000	0.000	-0.003	0.004	0.000	0.001	-0.001
TH/VL	0.001	0.001	-0.002	-0.003	-0.005	0.003	0.004	0.003	-0.001	-0.001	-0.005	-0.005
TH/VH	0.000	0.001	0.002	-0.001	0.004	-0.004	0.003	0.000	0.001	0.003	0.000	0.002

項次	檢驗項目及標準	檢驗結果				判定
6	功率控制狀態下之最小平均功率輸出 ≤ -50 dBm(in one time slot)	低頻道	頻道 9612	-59.06		符 合
		中頻道	頻道 9750	-57.78		
		高頻道	頻道 9888	-59.55		
7	佔用頻道頻寬 ≤ 5 MHz	低頻道	頻道 9612	4.147		符 合
		中頻道	頻道 9750	4.148		
		高頻道	頻道 9888	4.138		
8	發射頻譜波罩 符合[PLMN ALL]附表 56	低頻道	頻道 9612	請參考 4.2. 測試掃描圖 “發射頻譜波罩”		符 合
		中頻道	頻道 9750			
		高頻道	頻道 9888			
9	ACLR 偏移± 5 MHz 洩漏功率限制≤ 33 dB 偏移± 10 MHz 洩漏功率限制≤ 43 dB	低頻道	頻道 9612	± 5 MHz	-42.5 dB	符 合
				± 10 MHz	-59.9 dB	
		中頻道	頻道 9750	± 5 MHz	-44.1 dB	
				± 10 MHz	-60.2 dB	
		高頻道	頻道 9888	± 5 MHz	-40.7 dB	
				± 10 MHz	-57.9 dB	

項次	檢驗項目及標準	檢驗結果		判定	
10	混附波輻射 附表 57	低頻道/中頻道/高頻道			
	Transmitter mode	Transmitter mode			
	頻率範圍	最大允許值 /測量頻寬	9 kHz - 150 kHz	請參閱附件 符 合	
	9 kHz ≤ f < 150 kHz	-36 dBm / 1 kHz	150 kHz - 30 MHz		
	150 kHz ≤ f < 30 MHz	-36 dBm / 10 kHz	30 MHz - 1 GHz		
	30 MHz ≤ f < 1000 MHz	-36 dBm / 100 kHz	1 GHz - FL(Note1)		
	1 GHz ≤ f < 12.75 GHz	-30 dBm / 1 MHz	FH - 12.75 GHz(Note1)		
	附表 58	462.5 MHz - 467.5 MHz			
	Transmitter mode	703 MHz - 803 MHz			
	頻率範圍	最大允許值 / 測量頻寬	791 MHz - 821 MHz		
	462.5 MHz ≤ f ≤ 467.5 MHz	-50 dBm / 1 MHz	852 MHz - 859 MHz		
	703 MHz ≤ f ≤ 803 MHz	-50 dBm / 1 MHz	859 MHz - 894 MHz		
	791 MHz ≤ f ≤ 821 MHz	-60 dBm / 3.84 MHz	921 MHz - 925 MHz		
	852 MHz ≤ f ≤ 859 MHz	-50 dBm / 1 MHz	925 MHz - 935 MHz(*1)		
	859 MHz ≤ f ≤ 894 MHz	-60 dBm / 3.84 MHz	925 MHz - 935 MHz(*2)		
	921 MHz ≤ f ≤ 925 MHz	-60 dBm / 100 kHz	935 MHz - 960 MHz(*3)		
	925 MHz ≤ f ≤ 935 MHz	-67 dBm / 100 kHz (*1) -60 dBm / 3.84 MHz(*2)	935 MHz - 960 MHz(*4)		
	935 MHz ≤ f ≤ 960 MHz	-79 dBm / 100 kHz(*3) -60 dBm / 3.84 MHz(*4)	1447 MHz - 1467 MHz		
	1447 MHz ≤ f ≤ 1467 MHz	-50 dBm / 1 MHz	1452 MHz - 1510.9 MHz		
	1452 MHz ≤ f ≤ 1510.9 MHz	-60 dBm / 3.84 MHz	1805 MHz - 1880 MHz(*5)		
	1805 MHz ≤ f ≤ 1880 MHz	-71 dBm / 100 kHz(*5) -60 dBm / 3.84 MHz(*6)	1805 MHz - 1880 MHz(*6)		
	1839.9 MHz ≤ f ≤ 1879.9 MHz	-60 dBm / 3.84 MHz	1839.9 MHz - 1879.9 MHz		
	1884.5 MHz < f < 1915.7 MHz	-41 dBm / 300 kHz	1884.5 MHz - 1915.7 MHz		
	2010 MHz < f < 2025 MHz	-60 dBm / 3.84 MHz	2010 MHz - 2025 MHz		
	2110 MHz ≤ f ≤ 2170 MHz	-60 dBm / 3.84 MHz	2110 MHz - 2170 MHz		
	2170 MHz ≤ f ≤ 2200 MHz	-50 dBm / 1 MHz	2170 MHz - 2200 MHz		
	2300 MHz ≤ f ≤ 2400 MHz	-60 dBm / 3.84 MHz	2300 MHz - 2400 MHz		
	2496 MHz ≤ f ≤ 2570 MHz	-50 dBm / 1 MHz	2496 MHz - 2570 MHz		
	2570 MHz ≤ f ≤ 2690 MHz	-60 dBm / 3.84 MHz	2570 MHz - 2690 MHz		
	3510 MHz ≤ f ≤ 3590 MHz	-60 dBm / 3.84 MHz	3510 MHz - 3590 MHz		
	3400 MHz ≤ f ≤ 3800 MHz	-50 dBm / 1 MHz	3400 MHz - 3800 MHz		
	Note1: FL=The UE centre carrier frequency -12.5 MHz, FH=The UE centre carrier frequency +12.5 MHz				

Band 8					
項次	檢驗項目及標準	檢驗結果			判定
1	工作頻帶 Tx : 885 - 915 MHz Rx : 930 - 960 MHz	Tx : 885 - 915 MHz Rx : 930 - 960 MHz			符 合
2	收發頻率間隔 45 MHz	低頻道	頻道 2737	45 MHz	符 合
		中頻道	頻道 2800	45 MHz	
		高頻道	頻道 2863	45 MHz	
3	標稱頻道間隔 5 MHz	低頻道	頻道 2737	5 MHz	符 合
		中頻道	頻道 2800	5 MHz	
		高頻道	頻道 2863	5 MHz	
4	最大發射輸出功率 24 dBm +1.7/-3.7 dB (Class 3)	SIM1			符 合
		低頻道	頻道 2737	22.87 dBm	
		中頻道	頻道 2800	22.83 dBm	
		高頻道	頻道 2863	22.60 dBm	
		SIM2			
		低頻道	頻道 2737	22.51 dBm	
		中頻道	頻道 2800	22.46 dBm	
		高頻道	頻道 2863	22.44 dBm	

項次	檢驗項目及標準	判定
5	頻率穩定度 終端設備於常態環境常態電壓、低極端溫度低極端電壓、低極端溫度高極端電壓、高極端溫度低極端電壓、高極端溫度高極端電壓等五種測試環境下，分別進行頻率量測，經 0/2/5/10 分鐘量測結果，頻率應維持在頻道之主波頻率 0.1ppm 以內。	符合

工作頻段				Band 8								
檢驗結果												
Time	0 分鐘			2 分鐘			5 分鐘			10 分鐘		
Channel	2737	2800	2863	2737	2800	2863	2737	2800	2863	2737	2800	2863
Frequency (MHz)	887.4	900	912.6	887.4	900	912.6	887.4	900	912.6	887.4	900	912.6
測試溫度/ 電壓	Deviation (ppm)											
TL/VL	0.009	-0.002	0.002	-0.001	-0.002	0.000	-0.012	0.008	0.002	-0.010	-0.010	-0.010
TL/VH	-0.004	-0.003	0.004	0.009	-0.002	-0.003	-0.010	0.010	-0.008	-0.011	0.007	-0.010
TN/VN	0.003	0.000	-0.008	0.002	0.007	0.001	0.006	0.007	0.001	-0.009	0.004	0.009
TH/VL	-0.004	0.008	-0.009	0.009	0.000	0.001	-0.001	-0.004	-0.011	0.006	-0.007	-0.007
TH/VH	0.001	0.011	0.008	0.012	-0.009	0.010	0.010	-0.002	-0.010	0.002	0.000	0.009

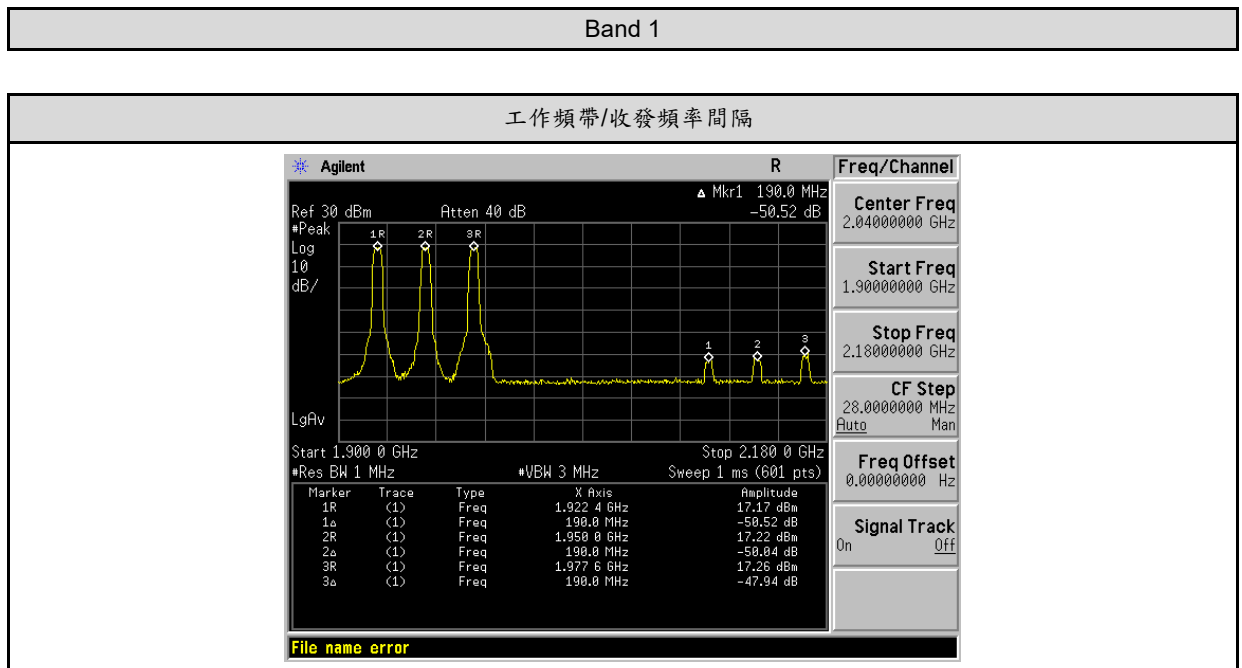
項次	檢驗項目及標準	檢驗結果				判定	
6	功率控制狀態下之最小平均功率輸出 ≤ -50 dBm(in one time slot)	低頻道	頻道 2737	-58.09		符 合	
		中頻道	頻道 2800	-58.28			
		高頻道	頻道 2863	-58.33			
7	佔用頻道頻寬 ≤ 5 MHz	低頻道	頻道 2737	4.120		符 合	
		中頻道	頻道 2800	4.121			
		高頻道	頻道 2863	4.117			
8	發射頻譜波罩 符合[PLMN ALL]附表 56	低頻道	頻道 2737	請參考 4.2. 測試掃描圖 “發射頻譜波罩”		符 合	
		中頻道	頻道 2800				
		高頻道	頻道 2863				
9	ACLR 偏移± 5 MHz 洩漏功率限制≤ 33 dB 偏移± 10 MHz 洩漏功率限制≤ 43 dB	低頻道	頻道 2737	± 5 MHz	-39.4	dB	符 合
				± 10 MHz	-56.8	dB	
		中頻道	頻道 2800	± 5 MHz	-43.3	dB	
				± 10 MHz	-57.2	dB	
		高頻道	頻道 2863	± 5 MHz	-42.9	dB	
				± 10 MHz	-55.9	dB	

項次	檢驗項目及標準	檢驗結果	判定	
10	混附波輻射 附表 57	低頻道/中頻道/高頻道		
	Transmitter mode	Transmitter mode		
	頻率範圍	最大允許值 / 測量頻寬	9 kHz - 150 kHz	請參閱附件 符 合
	9 kHz ≤ f < 150 kHz	-36 dBm / 1 kHz	150 kHz - 30 MHz	
	150 kHz ≤ f < 30 MHz	-36 dBm / 10 kHz	30 MHz - FL(Note1)	
	30 MHz ≤ f < 1000 MHz	-36 dBm / 100 kHz	FH - 1 GHz(Note1)	
	1 GHz ≤ f < 12.75 GHz	-30 dBm / 1 MHz	1 GHz - 12.75 GHz	
	附表 61		462.5 MHz - 467.5 MHz	
	Transmitter mode	Transmitter mode	703 MHz - 803 MHz	
	頻率範圍	最大允許值 / 測量頻寬	791 MHz - 821 MHz	
	462.5 MHz ≤ f ≤ 467.5 MHz	-50 dBm / 1 MHz	860 MHz - 890 MHz(Note2)	
	703 MHz ≤ f ≤ 803 MHz	-50 dBm / 1 MHz	925 MHz - 935 MHz(*1)	
	791 MHz ≤ f ≤ 821 MHz	-60 dBm / 3.84 MHz	925 MHz - 935 MHz(*2)	
	860 MHz ≤ f ≤ 890 MHz	-37 dBm / 1 MHz	935 MHz - 960 MHz(*3)	
	925 MHz ≤ f ≤ 935 MHz	-67 dBm / 100 kHz (*1)	935 MHz - 960 MHz(*4)	
		-60 dBm / 3.84 MHz(*2)	1447 MHz - 1467 MHz	
	935 MHz ≤ f ≤ 960 MHz	-79 dBm / 100 kHz(*3)	1452 MHz - 1496 MHz	
		-60 dBm / 3.84 MHz(*4)	1475.9 MHz - 1510.9 MHz(Note2)	
	1447 MHz ≤ f ≤ 1467 MHz	-50 dBm / 1 MHz	1805 MHz - 1830 MHz(*5)	
	1452 MHz ≤ f ≤ 1496 MHz	-60 dBm / 3.84 MHz	1805 MHz - 1830 MHz(*6)	
	1475.9 MHz ≤ f ≤ 1510.9 MHz	-60 dBm / 3.84 MHz	1830 MHz - 1880 MHz(*7)	
	1805 MHz ≤ f ≤ 1830 MHz	-71 dBm / 100 kHz(*5)	1830 MHz - 1880 MHz(*8)	
		-60 dBm / 3.84 MHz(*6)	1880- MHz - 1920 MHz	
	1830 MHz ≤ f ≤ 1880 MHz	-71 dBm / 100 kHz(*7)	1884.5 MHz - 1915.7 MHz(Note2)	
		-60 dBm / 3.84 MHz(*8)	2010 MHz - 2025 MHz	
	1880 MHz ≤ f ≤ 1920 MHz	-60 dBm / 3.84 MHz	2110 MHz - 2170 MHz	
	1884.5 MHz ≤ f ≤ 1915.7 MHz	-41 dBm / 300 kHz	2170 MHz - 2200 MHz	
	2010 MHz ≤ f ≤ 2025 MHz	-60 dBm / 3.84 MHz	2300 MHz - 2400 MHz	
	2110 MHz ≤ f ≤ 2170 MHz	-60 dBm / 3.84 MHz	2496 MHz - 2570 MHz	
	2170 MHz ≤ f ≤ 2200 MHz	-50 dBm / 1 MHz	2570 MHz - 2640 MHz	
	2300 MHz < f < 2400 MHz	-60 dBm / 3.84 MHz	2640 MHz - 2690 MHz	
	2496 MHz ≤ f ≤ 2570 MHz	-50 dBm / 1 MHz		
	2570 MHz ≤ f ≤ 2640 MHz	-60 dBm / 3.84 MHz		
	2640 MHz ≤ f ≤ 2690 MHz	-60 dBm / 3.84 MHz		
	3510 MHz ≤ f ≤ 3590 MHz	-60 dBm / 3.84 MHz		
	3400 MHz ≤ f ≤ 3800 MHz	-50 dBm / 1 MHz		
	Note1: FL=The UE centre carrier frequency -12.5 MHz, FH=The UE centre carrier frequency +12.5 MHz			
Note2: This requirement is applicable only when transmission is made between 900 MHz to 915 MHz				

項次	檢驗項目及標準	判定
11	電波功率密度 電波功率密度限制值(Maximum Permissible Exposure, MPE) : 900 MHz 頻段為 0.45 mW/cm ² ; 2100 MHz 頻段為 1.0 mW/cm ² 。 量測距離為 20 公分，或以設備廠商宣告設備天線與附近人體可活動範圍之距離。	符合

Band	Frequency (MHz)	Distance [R] (cm)	Power [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G] (dBi)	Duty Cycle	With Duty cycle [P] x [G] (mW)	Power Density [S] (mW/cm ²)
Band1	1922.4	20	22.65	-0.39	0.91	1	167.510	0.033
	1950	20	22.71	-0.39	0.91	1	169.841	0.034
	1977.6	20	22.78	-0.39	0.91	1	172.600	0.034
Band8	887.4	20	22.87	-1.19	0.76	1	147.168	0.029
	900	20	22.83	-1.19	0.76	1	145.819	0.029
	912.6	20	22.60	-1.19	0.76	1	138.297	0.028

4.2 測試掃描圖



最大發射輸出功率 (SIM1)																							
低頻道	<table><tr><th colspan="3">Measurement/Instrument Screen</th></tr><tr><td>Control</td><td>Thermal Power</td><td>UARFCN Parns</td></tr><tr><td>Thermal Power Setup ▾</td><td rowspan="5">Thermal Power 22.65 dBm Continuous</td><td>DL Channel 10562</td></tr><tr><td rowspan="4"></td><td>Uplink Channel Auto</td></tr><tr><td>Band Arbitrator Band VI</td></tr><tr><td>Freq Band Ind On</td></tr><tr><td>Transmit SIBSbis Std Bands</td></tr><tr><td>1 of 2</td><td>Active Cell Connected</td><td>Sys Type: UTRA FDD</td></tr><tr><td></td><td>IntRef</td><td>Offset</td></tr></table>			Measurement/Instrument Screen			Control	Thermal Power	UARFCN Parns	Thermal Power Setup ▾	Thermal Power 22.65 dBm Continuous	DL Channel 10562		Uplink Channel Auto	Band Arbitrator Band VI	Freq Band Ind On	Transmit SIBSbis Std Bands	1 of 2	Active Cell Connected	Sys Type: UTRA FDD		IntRef	Offset
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最大發射輸出功率 (SIM2)																							
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最小輸出平均功率																																																																																																																																																								
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佔用頻道寬

低頻道

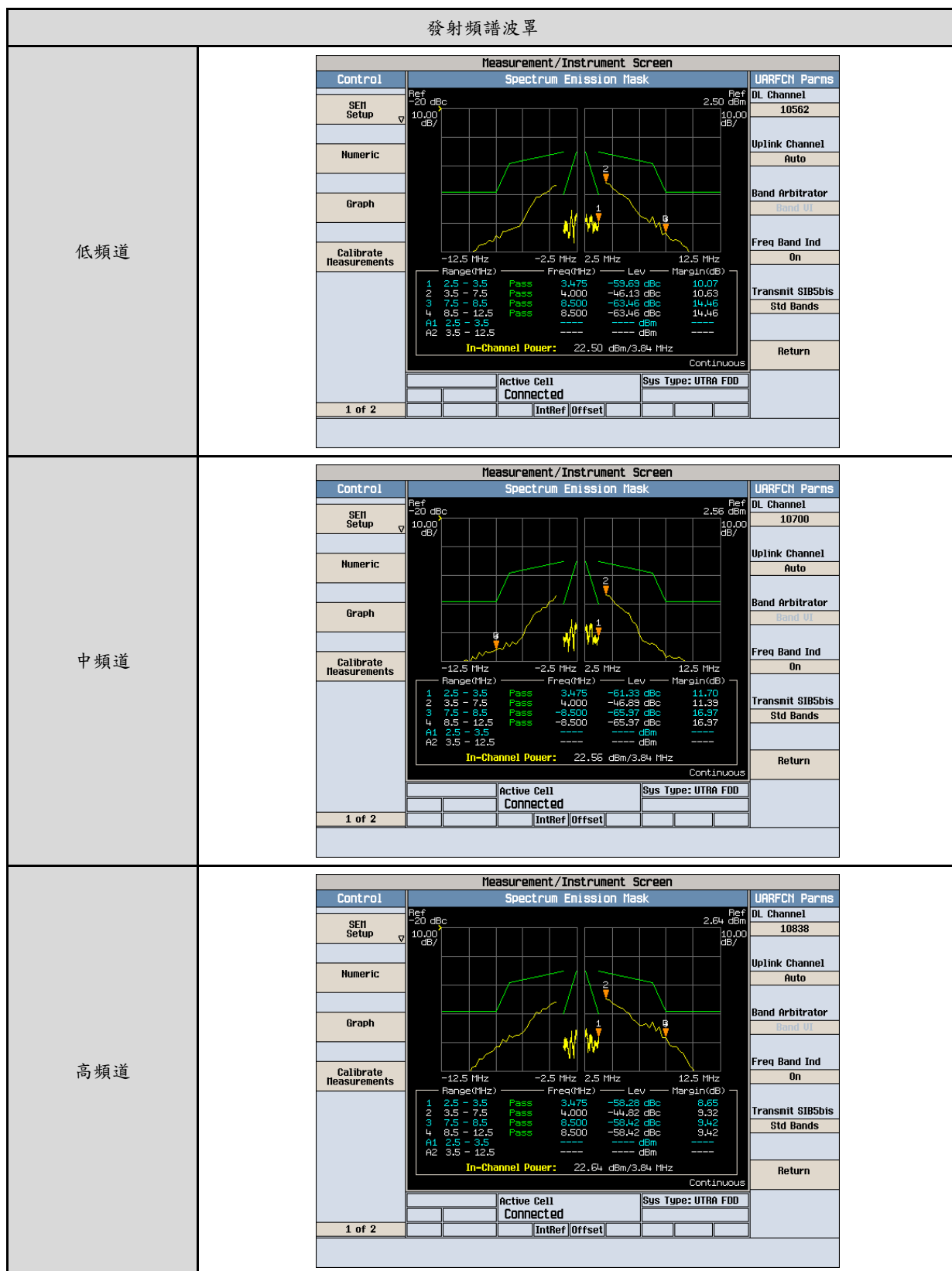
Measurement/Instrument Screen		
Handovers	Occupied Bandwidth	UARFCN Params
Physical Chan Reconfig	Occupied Bandwidth 4.147 MHz Lower Frequency:1920.33 MHz Upper Frequency:1924.47 MHz	DL Channel
		10562
Transport Chan Reconfig		Uplink Channel
		Auto
System Handover		Band Arbitrator
	Continuous	Band VI
		Freq Band Ind
		On
Radio Bearer Reconfig		Transmit SIB5bis
		Std Bands
Return		Return
	Active Cell Connected	Sys Type: UTRA FDD
	IntRef Offset	

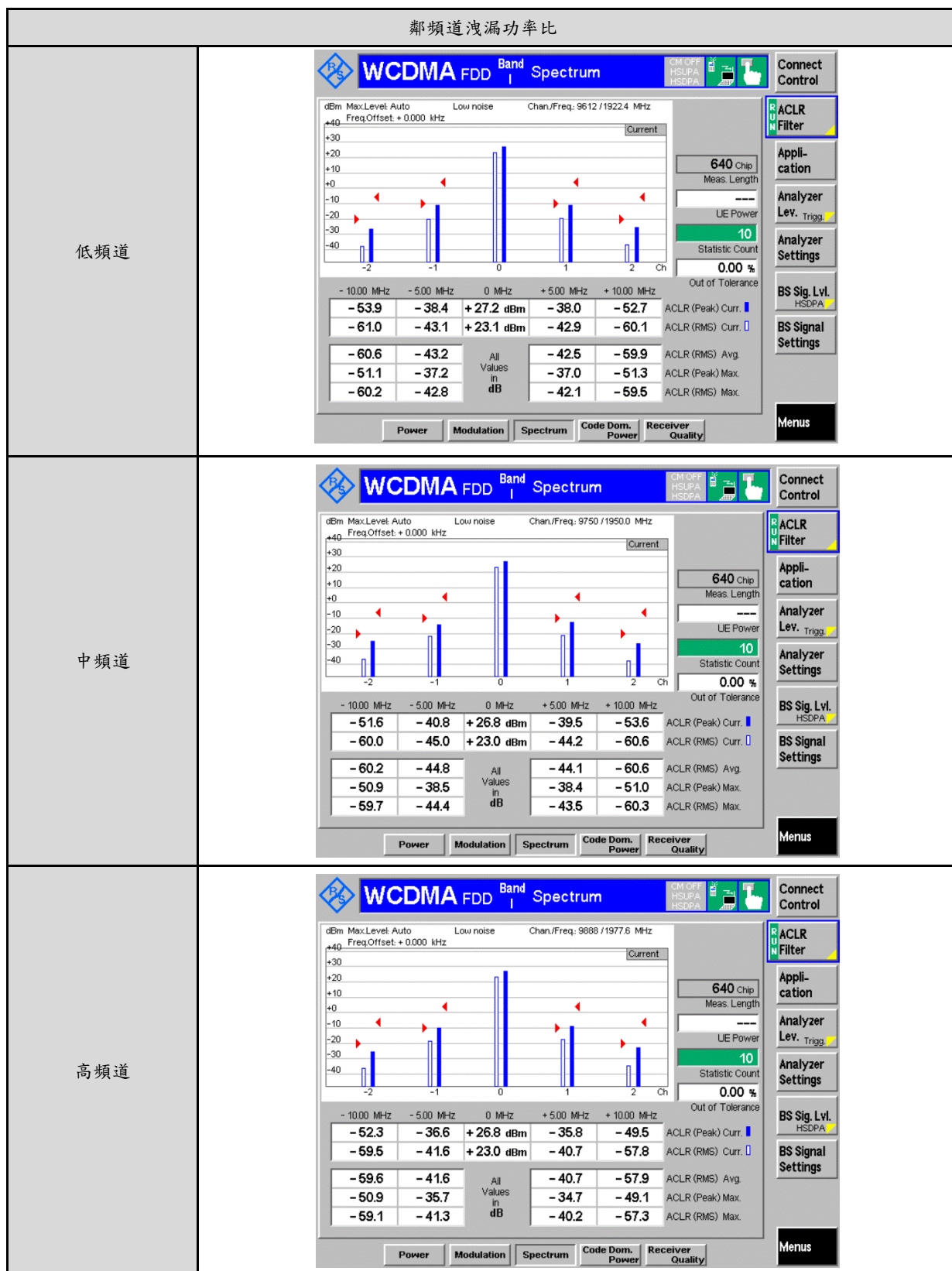
中頻道

Measurement/Instrument Screen		
Handovers	Occupied Bandwidth	UARFCN Params
Physical Chan Reconfig	Occupied Bandwidth 4.148 MHz Lower Frequency:1947.93 MHz Upper Frequency:1952.07 MHz	DL Channel
		10700
Transport Chan Reconfig		Uplink Channel
		Auto
System Handover		Band Arbitrator
	Continuous	Band VI
		Freq Band Ind
		On
Radio Bearer Reconfig		Transmit SIB5bis
		Std Bands
Return		Return
	Active Cell Connected	Sys Type: UTRA FDD
	IntRef Offset	

高頻道

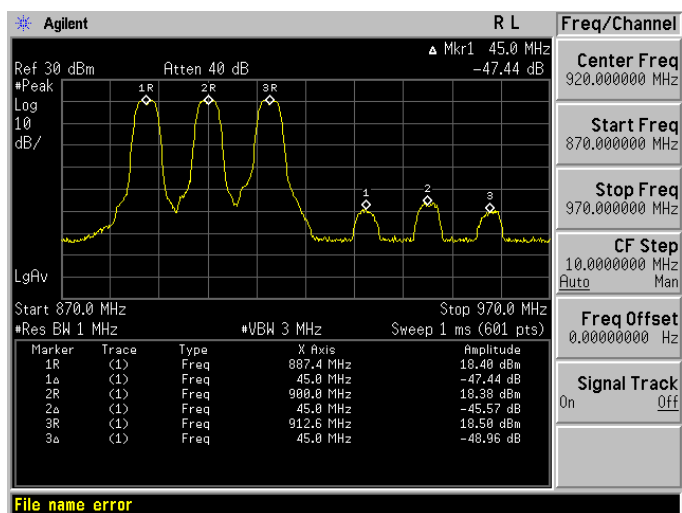
Measurement/Instrument Screen		
Handovers	Occupied Bandwidth	UARFCN Params
Physical Chan Reconfig	Occupied Bandwidth 4.138 MHz Lower Frequency:1975.54 MHz Upper Frequency:1979.68 MHz	DL Channel
		10838
Transport Chan Reconfig		Uplink Channel
		Auto
System Handover		Band Arbitrator
	Continuous	Band VI
		Freq Band Ind
		On
Radio Bearer Reconfig		Transmit SIB5bis
		Std Bands
Return		Return
	Active Cell Connected	Sys Type: UTRA FDD
	IntRef Offset	





Band 8

工作頻帶/收發頻率間隔



最大發射輸出功率 (SIM1)																											
低頻道	<table> <tr> <th colspan="2">Measurement/Instrument Screen</th></tr> <tr> <td>Control</td><td>Thermal Power</td></tr> <tr> <td>Thermal Power Setup ▾</td><td>Thermal Power 22.87 dBm</td></tr> <tr> <td></td><td>Continuous</td></tr> <tr> <td>1 of 2</td><td>Active Cell Connected IntRef Offset</td></tr> <tr> <td></td><td>Sys Type: UTAA FDD</td></tr> <tr> <td></td><td>UARFCN Parns</td></tr> <tr> <td></td><td>DL Channel 2962</td></tr> <tr> <td></td><td>Uplink Channel Auto</td></tr> <tr> <td></td><td>Band Arbitrator Band VI</td></tr> <tr> <td></td><td>Freq Band Ind On</td></tr> <tr> <td></td><td>Transmit S1B5bis Std Bands</td></tr> <tr> <td></td><td>Return</td></tr> </table>	Measurement/Instrument Screen		Control	Thermal Power	Thermal Power Setup ▾	Thermal Power 22.87 dBm		Continuous	1 of 2	Active Cell Connected IntRef Offset		Sys Type: UTAA FDD		UARFCN Parns		DL Channel 2962		Uplink Channel Auto		Band Arbitrator Band VI		Freq Band Ind On		Transmit S1B5bis Std Bands		Return
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最大發射輸出功率 (SIM2)																							
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最小輸出平均功率																																																																																																																
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佔用頻道寬

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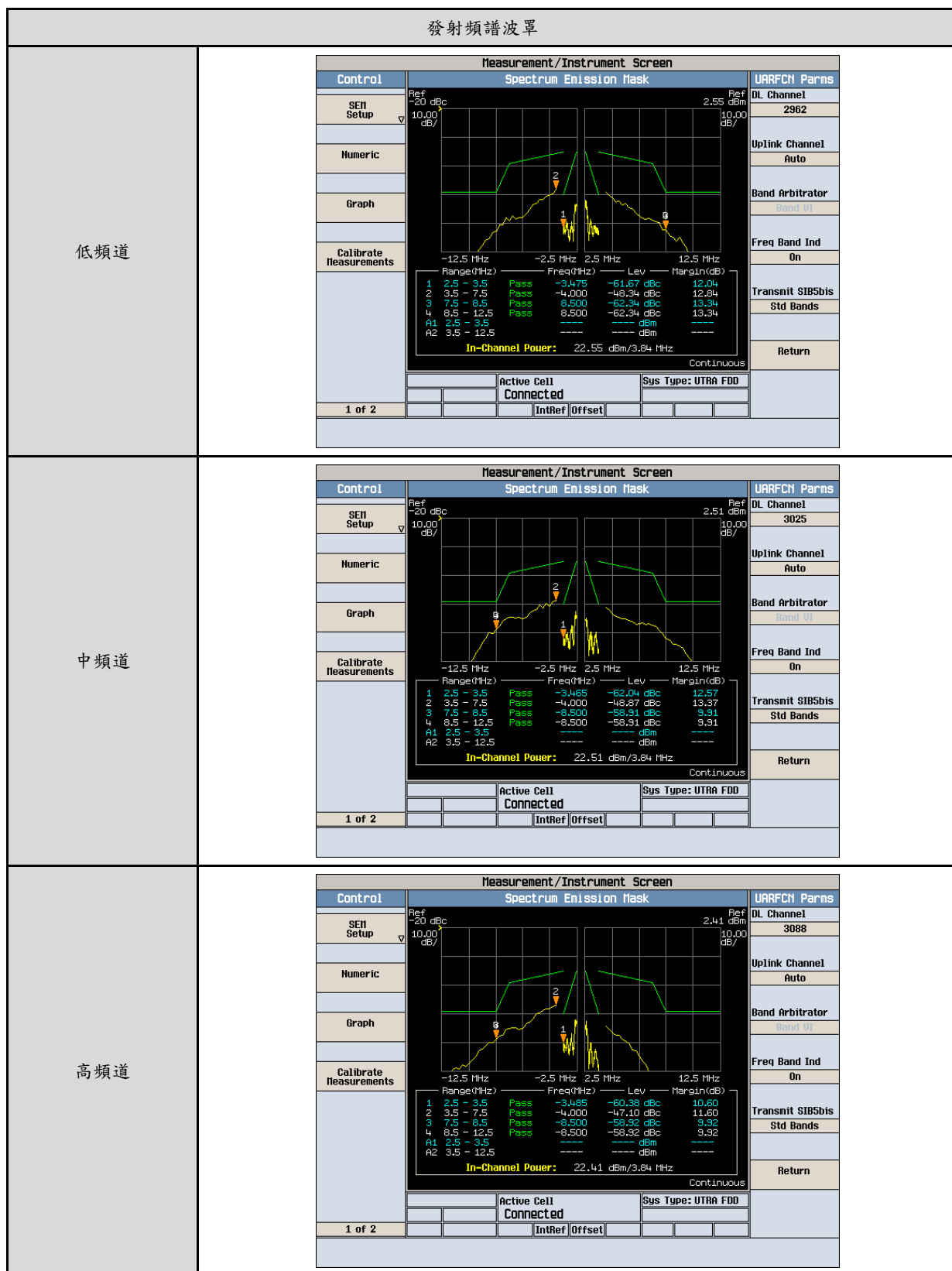
Measurement/Instrument Screen			
Handovers	Occupied Bandwidth		UARFCN Params
Physical Chan Reconfig	Occupied Bandwidth 4.120 MHz Lower Frequency: 885.32 MHz Upper Frequency: 889.44 MHz Continuous		DL Channel
			2962
Transport Chan Reconfig			Uplink Channel
			Auto
System Handover			Band Arbitrator
		Band VI	
		Freq Band Ind	
		On	
Radio Bearer Reconfig		Transmit SIB5bis	
		Std Bands	
Return		Return	
	Active Cell Connected Sys Type: UTRA FDD IntRefOffset		

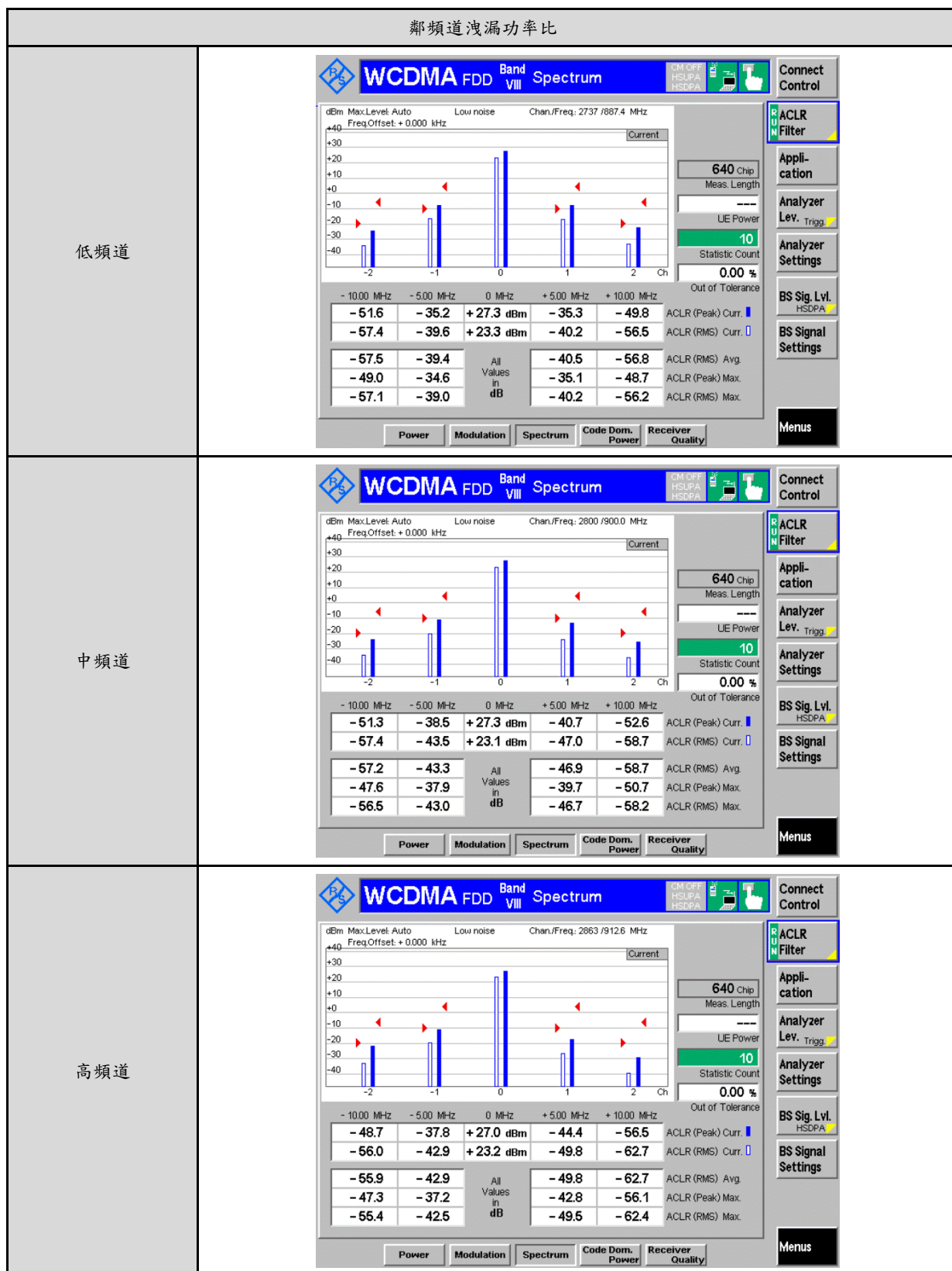
中頻道

Measurement/Instrument Screen			
Handovers	Occupied Bandwidth		UARFCN Params
Physical Chan Reconfig	Occupied Bandwidth 4.121 MHz Lower Frequency: 897.91 MHz Upper Frequency: 902.03 MHz Continuous		DL Channel
			3025
Transport Chan Reconfig			Uplink Channel
			Auto
System Handover			Band Arbitrator
		Band VI	
		Freq Band Ind	
		On	
Radio Bearer Reconfig		Transmit SIB5bis	
		Std Bands	
Return		Return	
	Active Cell Connected Sys Type: UTRA FDD IntRefOffset		

高頻道

Measurement/Instrument Screen			
Handovers	Occupied Bandwidth		UARFCN Params
Physical Chan Reconfig	Occupied Bandwidth 4.117 MHz Lower Frequency: 910.52 MHz Upper Frequency: 914.64 MHz Continuous		DL Channel
			3088
Transport Chan Reconfig			Uplink Channel
			Auto
System Handover			Band Arbitrator
		Band VI	
		Freq Band Ind	
		On	
Radio Bearer Reconfig		Transmit SIB5bis	
		Std Bands	
Return		Return	
	Active Cell Connected Sys Type: UTRA FDD IntRefOffset		





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