



行動通信電信終端設備檢驗報告

產品名稱：Wireless Module

廠牌：AirPrime

型號：EM9190

申請廠商：Sierra Wireless Inc.

13811 Wireless Way Richmond, BC Canada V6V 3A4

製造廠商：Sierra Wireless Inc.

13811 Wireless Way Richmond, BC Canada V6V 3A4

技術規範：國家通訊傳播委員會行動通信電信終端設備技術規範

- 測試產品接收日期為 2021 年 10 月 27 日。
- 於 2021 年 11 月 3 日開始測試，2021 年 11 月 17 日結束測試。
- 此份試驗報告，僅針對保留於本實驗室的試驗樣品有效。
- 未獲本公司書面允許，證書或報告不得節錄複製。

耕興股份有限公司電磁相容及無線通信實驗室

報告簽署人：吳忠泰



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報告履歷

報告編號	報告版本	說明	報告發行日期
TM160346	01	初版	2022 年 2 月 7 日

測試結果總表

報告章節	法規章節	檢驗項目	結果判定	備註
2	6.4.1	工作頻帶/ 收發頻率間隔/ 標稱頻道間隔	符合	-
附錄 A	6.4.2	最大發射輸出功率	符合	Band 1: 23.99 dBm Band 3: 24.06 dBm Band 8: 23.91 dBm
附錄 A	6.4.3	頻率穩定度	符合	Band 1: 0.0144 PPM Band 3: 0.0143 PPM Band 8: 0.0189 PPM
附錄 A	6.4.4	功率控制狀態下之 最小平均輸出功率	符合	Band 1: -56.05 dBm Band 3: -55.73 dBm Band 8: -56.22 dBm
附錄 A	6.4.5	佔用頻道頻寬	符合	-
附錄 A	6.4.6	發射頻譜波罩	符合	-
附錄 A	6.4.7	相鄰頻道洩漏功率比(ACLR)	符合	-
附錄 A	6.6.2	電波功率密度	符合	-
附錄 A	5.2	電壓條件	符合	-
附錄 B	6.4.8	混附波輻射	符合	-
附錄 C	6.10	災防告警細胞廣播 訊息接收功能	不適用	-

符合性聲明:

上述報告所列測試結果判定，不納入不確定度評估，且依法規所列限制值或製造商宣告作為判定準則。

意見與解釋:

報告中 EUT 呈現的技術規格由製造商提供，製造商承擔所有規格準確性的責任。

報告審查: 李安傑

報告製作: 陳昭伶



1. 一般資料

1.1 測試方法及依據

國家通訊傳播委員會【PLMN ALL】行動通信電信終端設備技術規範109年09月25日修訂版

1.2 待測物特性與規格

WCDMA/LTE/5G NR, and GPS/Glonass/BDS/Galileo.

Product Specification subjective to this standard	
IMEI Code	351735110007529
Tx Frequency	WCDMA Band I: 1920 MHz ~ 1980 MHz WCDMA Band III: 1710 MHz ~ 1785 MHz WCDMA Band VIII: 885 MHz ~ 915 MHz
Rx Frequency	WCDMA Band I: 2110 MHz ~ 2170 MHz WCDMA Band III: 1805 MHz ~ 1880 MHz WCDMA Band VIII: 930 MHz ~ 960 MHz
Type of Modulation	QPSK / 16QAM / 64QAM

Remark: The above EUT's information was declared by manufacturer.

Antenna Information				
Antenna	Brand Name	Panorama	Peak Gain	WCDMA Band I: 4.0 dBi WCDMA Band III: 4.0 dBi WCDMA Band VIII: 2.0 dBi
	Model Name	PWB-6-60-RSMAP	Type	Dipole Antenna

Remark:

1. The detail internal, external and transmit antenna photo please refer to Sporton report no.: EP160346.
2. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 測試環境

實驗室名稱	耕興股份有限公司電磁相容及無線通信實驗室
實驗室資訊	桃園市龜山區華亞一路 52 號 TEL: +886-3-3273456 / FAX: +886-3-3284978
耕興場地編號	TH03-HY
測試工程師	季怡然
環境溫度	24~25°C
相對濕度	53~54%



1.4 測試頻道

操作頻段		低頻道	中間頻道	高頻道
■	WCDMA Band I	9612	9750	9888
■	WCDMA Band III	937	1113	1288
■	WCDMA Band VIII	2737	2800	2863

1.5 量測系統之描述

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	治具板	Sierra	EM DevKit	N/A	N/A	N/A

註：申請人確保輔助設備不隨市場上的產品提供，輔助設備由申請者提供用於測試。

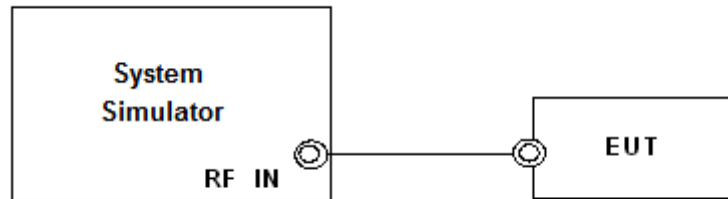


2. 一般特性檢驗

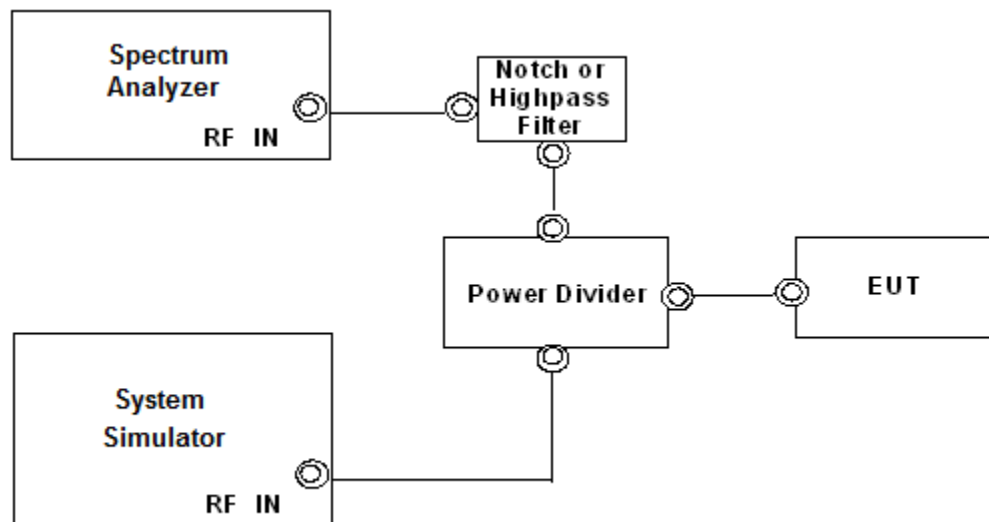
項次	檢驗項目	合格標準
1	工作頻帶	限制值參照5.1
	收發頻率間隔	
	標稱頻道間隔	
2	最大發射輸出功率	限制值參照5.2
3	頻率穩定度	± 0.1 百萬分之一(PPM)之內
4	功率控制狀態下之最小平均輸出功率	$\leq -50\text{dBm}$ (in one time slot)
5	佔用頻道頻寬	$\leq 5\text{ MHz}$
6	發射頻譜波罩	限制值參照5.3
7	相鄰頻道洩漏功率比	相鄰頻道偏移 $\pm 5\text{ MHz}$ 相鄰頻道洩漏功率限制33 dB 相鄰頻道偏移 $\pm 10\text{ MHz}$ 相鄰頻道洩漏功率限制43 dB
8	電波功率密度	限制值參照5.4
9	電壓條件	限制值參照5.5
10	混附波輻射	限制值參照5.6

3. 檢驗接續圖

檢驗項目：1~9



檢驗項目：10





4. 檢驗使用儀器

儀器名稱	廠牌	型號	序號	特性	校正日期	測試日期	再校期限	備註
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 30, 2021	Nov. 03, 2021~ Nov. 17, 2021	Sep. 29, 2022	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~4A	Oct. 06, 2021	Nov. 03, 2021~ Nov. 17, 2021	Oct. 05, 2022	Conducted (TH03-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Jul. 13, 2021	Nov. 03, 2021~ Nov. 17, 2021	Jul. 12, 2022	Conducted (TH03-HY)
Temperature & Humidity Cabinet Chamber	ESPEC	LHU-113	1012005860	-20°C ~85°C	Jan. 18, 2021	Nov. 03, 2021~ Nov. 17, 2021	Jan. 17, 2022	Conducted (TH03-HY)
Power Divider	Warison	WCOU-0.4-26. 5S-20	#A	N/A	Nov. 01, 2021	Nov. 03, 2021~ Nov. 17, 2021	Oct. 31, 2022	Conducted (TH03-HY)

5. 量測設定及限制值

5.1 工作頻帶、收發頻率間隔、標稱頻道間隔限制值

檢 驗 項 目	Band 1	Band 7	Band 8
工作頻帶 (frequency bands)	Tx : 1920 -1980MHz Rx : 2110 -2170MHz	Tx : 2500 -2570MHz Rx : 2620 -2690MHz	Tx : 885 -915MHz Rx : 930 -960MHz
收發頻率間隔 (TX-RX frequency separation)	190 MHz	120 MHz	45 MHz
標稱頻道間隔 (channel spacing)	5 MHz		

5.2 最大發射輸出功率限制值

最大發射輸出功率	Band 1	Band 7	Band 8
Power class 1	33 dBm +1.7/-3.7 dB	-	-
Power class 2	27 dBm +1.7/-3.7 dB	-	-
Power class 3	24 dBm +1.7/-3.7 dB		
Power class 4	21 dBm +2.7/-2.7 dB		

5.3 發射頻譜波罩限制值

量測濾波器中心載波 頻率偏移量 Δf (MHz)	最大允許值		量測頻寬
	相對允許值(dBc)	絕對允許值(dBm)	
2.5 – 3.5	$\left\{-35-15\cdot\left(\frac{\Delta f}{MHz}-2.5\right)\right\}dBc$	-71.1	30 千赫(kHz)
3.5 – 7.5	$\left\{-35-1\cdot\left(\frac{\Delta f}{MHz}-3.5\right)\right\}dBc$	-55.8	1 MHz
7.5 – 8.5	$\left\{-39-10\cdot\left(\frac{\Delta f}{MHz}-7.5\right)\right\}dBc$	-55.8	1 MHz
8.5 – 12.5	-49 dBc	-55.8	1 MHz

註：最大允許值取相對允許值及絕對允許值較大者。

5.4 電波功率密度

5.4.1 Limit

本項測試適用於移動式終端設備

頻段	電波功率密度最大值
700 MHz	0.35 mW/cm ²
900 MHz	0.45 mW/cm ²
1800 MHz	0.90 mW/cm ²
2100 MHz	1.00 mW/cm ²
2500 MHz ~ 2600 MHz	1.00 mW/cm ²
3500 MHz	1.00 mW/cm ²

5.4.2 Test Procedure

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

5.4.3 Test Result of Power Density

Please refer to appendix A.

5.5 電壓條件

5.5.1 Limit

終端設備之電源電壓應於低極端電壓與高極端電壓之間。終端設備審驗申請者應宣告其標稱電壓 (nominal)、低極端電壓、高極端電壓與關機電壓。若終端設備可操作在一種或多種電源，其低極端電壓不得高於下表限制值，高極端電壓不得低於下表限制值。

電源	低極端電壓	高極端電壓	常態電壓
交流電源	$0.9 \times \text{nominal}$	$1.1 \times \text{nominal}$	nominal
調節式鉛酸電池	$0.9 \times \text{nominal}$	$1.3 \times \text{nominal}$	$1.1 \times \text{nominal}$
非調節式電池： 勒克朗社電池 / 鋰電池 / 水銀電池/鎳鎘電池	$0.85 \times \text{nominal}$ $0.95 \times \text{nominal}$ $0.90 \times \text{nominal}$	nominal $1.1 \times \text{nominal}$ $1.1 \times \text{nominal}$	nominal $1.1 \times \text{nominal}$ nominal

電源電壓低於上表之低極端電壓或高於上表之高極端電壓，終端設備若可通電開機時，不得無效使用第 3 點規定之頻段。

檢測終端設備之電源電壓低於關機電壓時，終端設備不得發射。

5.5.2 Test Procedure

終端設備與 WWAN 基地台做連線，以低極端電壓往下調整至客戶宣告之關機電壓，查看終端設備與 WWAN 基地台是否中斷連線。

5.5.3 Test Result of Voltage Conditions

關機電壓數值請參閱附錄 A.

測試結果：符合

5.6 混附波輻射設定及限制值

頻率範圍	量測頻寬	最大允許值
$9\text{ kHz} \leq f < 150\text{ kHz}$	1 kHz	-36 dBm
$150\text{ kHz} \leq f < 30\text{ MHz}$	10 kHz	-36 dBm
$30\text{ MHz} \leq f < 1000\text{ MHz}$	100 kHz	-36 dBm
$1\text{GHz} \leq f < 12.75\text{ GHz}$	1 MHz	-30 dBm

下表僅適用於工作頻帶為Band 1

頻率範圍	測量頻寬	最大允許值
$462.5\text{ MHz} \leq f \leq 467.5\text{ MHz}$	1 MHz	-50 dBm
$703\text{ MHz} \leq f \leq 803\text{ MHz}$	1 MHz	-50 dBm
$791\text{ MHz} \leq f \leq 821\text{ MHz}$	3.84 MHz	-60 dBm
$852\text{ MHz} \leq f \leq 859\text{ MHz}$	1 MHz	-50 dBm
$859\text{ MHz} \leq f \leq 894\text{ MHz}$	3.84 MHz	-60 dBm
$921\text{ MHz} \leq f < 925\text{ MHz}$	100 kHz	-60 dBm
$925\text{ MHz} \leq f \leq 935\text{ MHz}$	100 kHz 3.84 MHz	-67 dBm -60 dBm
$935\text{ MHz} < f \leq 960\text{ MHz}$	100 kHz 3.84 MHz	-79 dBm -60 dBm
$1447\text{ MHz} \leq f \leq 1467\text{ MHz}$	1 MHz	-50 dBm
$1452\text{ MHz} \leq f \leq 1510.9\text{ MHz}$	3.84 MHz	-60 dBm
$1805\text{ MHz} \leq f \leq 1880\text{ MHz}$	100 kHz 3.84 MHz	-71 dBm -60 dBm
$1839.9\text{ MHz} \leq f \leq 1879.9\text{ MHz}$	3.84 MHz	-60 dBm
$1884.5\text{ MHz} < f < 1915.7\text{ MHz}$	300 kHz	-41 dBm
$2010\text{ MHz} < f < 2025\text{ MHz}$	3.84 MHz	-60 dBm
$2110\text{ MHz} \leq f \leq 2170\text{ MHz}$	3.84 MHz	-60 dBm
$2170\text{ MHz} \leq f \leq 2200\text{ MHz}$	1 MHz	-50 dBm
$2300\text{ MHz} \leq f \leq 2400\text{ MHz}$	3.84 MHz	-60 dBm
$2496\text{ MHz} \leq f \leq 2570\text{ MHz}$	1 MHz	-50 dBm
$2570\text{ MHz} \leq f \leq 2690\text{ MHz}$	3.84 MHz	-60 dBm
$3510\text{ MHz} \leq f \leq 3590\text{ MHz}$	3.84 MHz	-60 dBm
$3400\text{ MHz} \leq f \leq 3800\text{ MHz}$	1 MHz	-50 dBm

下表僅適用於工作頻帶為Band 3

頻率範圍	測量頻寬	最大允許值
$462.5 \text{ MHz} \leq f \leq 467.5 \text{ MHz}$	1 MHz	-50 dBm
$703 \text{ MHz} \leq f \leq 803 \text{ MHz}$	1 MHz	-50 dBm
$791 \text{ MHz} \leq f \leq 821 \text{ MHz}$	3.84 MHz	-60 dBm
$852 \text{ MHz} \leq f \leq 859 \text{ MHz}$	1 MHz	-50 dBm
$859 \text{ MHz} \leq f \leq 894 \text{ MHz}$	3.84 MHz	-60 dBm (註)
$921 \text{ MHz} \leq f < 925 \text{ MHz}$	100 kHz	-60 dBm
$925 \text{ MHz} \leq f \leq 935 \text{ MHz}$	100 kHz 3.84 MHz	-67 dBm -60 dBm
$935 \text{ MHz} < f \leq 960 \text{ MHz}$	100 kHz 3.84 MHz	-79 dBm -60 dBm
$1447 \text{ MHz} \leq f \leq 1467 \text{ MHz}$	1 MHz	-50 dBm
$1452 \text{ MHz} \leq f \leq 1496 \text{ MHz}$	3.84 MHz	-60 dBm
$1475.9 \text{ MHz} \leq f \leq 1510.9 \text{ MHz}$	3.84 MHz	-60 dBm (註)
$1805 \text{ MHz} \leq f \leq 1880 \text{ MHz}$	3.84 MHz	-60 dBm
$1880 \text{ MHz} \leq f \leq 1920 \text{ MHz}$	3.84 MHz	-60 dBm
$1884.5 \text{ MHz} \leq f \leq 1915.7 \text{ MHz}$	300 kHz	-41 dBm (註)
$2010 \text{ MHz} < f < 2025 \text{ MHz}$	3.84 MHz	-60 dBm
$2110 \text{ MHz} \leq f \leq 2170 \text{ MHz}$	3.84 MHz	-60 dBm
$2170 \text{ MHz} \leq f \leq 2200 \text{ MHz}$	1 MHz	-50 dBm
$2300 \text{ MHz} \leq f \leq 2400 \text{ MHz}$	3.84 MHz	-60 dBm
$2496 \text{ MHz} \leq f \leq 2570 \text{ MHz}$	1 MHz	-50 dBm
$2570 \text{ MHz} \leq f \leq 2690 \text{ MHz}$	3.84 MHz	-60 dBm
$3510 \text{ MHz} \leq f \leq 3590 \text{ MHz}$	3.84 MHz	-60 dBm
$3400 \text{ MHz} \leq f \leq 3800 \text{ MHz}$	1 MHz	-50 dBm

註：僅適用於 1744.9 MHz 至 1784.9 MHz 內之傳輸。



下表僅適用於工作頻帶為Band 8

頻率範圍	測量頻寬	最大允許值
$462.5 \text{ MHz} \leq f \leq 467.5 \text{ MHz}$	1 MHz	-50 dBm
$703 \text{ MHz} \leq f \leq 803 \text{ MHz}$	1 MHz	-50 dBm
$791 \text{ MHz} \leq f \leq 821 \text{ MHz}$	3.84 MHz	-60 dBm
$860 \text{ MHz} \leq f \leq 890 \text{ MHz}$	1 MHz	-37 dBm (註)
$925 \text{ MHz} \leq f \leq 935 \text{ MHz}$	100 kHz 3.84 MHz	-67 dBm -60 dBm
$935 \text{ MHz} < f \leq 960 \text{ MHz}$	100 kHz 3.84 MHz	-79 dBm -60 dBm
$1447 \text{ MHz} \leq f \leq 1467 \text{ MHz}$	1 MHz	-50 dBm
$1452 \text{ MHz} \leq f \leq 1496 \text{ MHz}$	3.84 MHz	-60 dBm
$1475.9 \text{ MHz} \leq f \leq 1510.9 \text{ MHz}$	3.84 MHz	-60 dBm (註)
$1805 \text{ MHz} < f \leq 1830 \text{ MHz}$	100 kHz 3.84 MHz	-71 dBm -60 dBm
$1830 \text{ MHz} < f \leq 1880 \text{ MHz}$	100 kHz 3.84 MHz	-71 dBm -60 dBm
$1880 \text{ MHz} \leq f \leq 1920 \text{ MHz}$	3.84 MHz	-60 dBm
$1884.5 \text{ MHz} \leq f \leq 1915.7 \text{ MHz}$	300 kHz	-41 dBm (註)
$2010 \text{ MHz} \leq f \leq 2025 \text{ MHz}$	3.84 MHz	-60 dBm
$2110 \text{ MHz} \leq f \leq 2170 \text{ MHz}$	3.84 MHz	-60 dBm
$2170 \text{ MHz} \leq f \leq 2200 \text{ MHz}$	1 MHz	-50 dBm
$2300 \text{ MHz} < f < 2400 \text{ MHz}$	3.84 MHz	-60 dBm
$2496 \text{ MHz} \leq f \leq 2570 \text{ MHz}$	1 MHz	-50 dBm
$2570 \text{ MHz} \leq f \leq 2640 \text{ MHz}$	3.84 MHz	-60 dBm
$2640 \text{ MHz} < f \leq 2690 \text{ MHz}$	3.84 MHz	-60 dBm
$3510 \text{ MHz} \leq f \leq 3590 \text{ MHz}$	3.84 MHz	-60 dBm
$3400 \text{ MHz} \leq f \leq 3800 \text{ MHz}$	1 MHz	-50 dBm

註：僅適用於 900 MHz 至 915 MHz 內之傳輸。



5.7 頻率穩定度

5.7.1 Limit

頻率應維持在 ± 0.1 PPM 以內。

5.7.2 Test Procedures

溫度在攝氏 $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$ 間，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0.1百萬分之一(PPM)以內。

5.7.3 Test Result of Frequency Tolerance

Please refer to appendix A.



附錄 A. 最大發射輸出功率、頻率穩定度、功率控制狀態下之最小平均輸出功率、佔用頻道頻寬、相鄰頻道洩漏功率比和發射頻譜波罩

測試環境	溫度	°C	24~25
	濕度	%	53~54
測試工程師		-----	Oscar Chi
發射天線之最大方向增益		dBi	4.00
標準供應電壓		VDC	3.30
關機電壓		VDC	3.10

註: 檢測終端設備之電源電壓低於關機電壓時，終端設備已關機無發射

A.1 WCDMA Band I

傳導發射功率	單位	低頻道	中頻道	高頻道	限制	結果
	dBm	23.82	23.99	23.80	24 +1.7/-3.7	符合
電波功率密度	mW/cm ²	0.120429	0.125236	0.119875	1	符合

註1: Power Class 3

註2: 移動式終端設備

供電方式		直流電源						
頻率穩定度		單位	第0分鐘	第2分鐘	第5分鐘	第10分鐘	限制	結果
常溫常壓	20 ℃ + 3.3 V	ppm	0.0026	0.0041	0.0056	0.0067	≤ 0.1	符合
高溫高壓	55 ℃ + 4.4 V	ppm	0.0067	0.0077	0.0092	0.0113	≤ 0.1	符合
高溫低壓	55 ℃ + 3.135 V	ppm	0.0092	0.0103	0.0128	0.0144	≤ 0.1	符合
低溫高壓	-10 ℃ + 4.4 V	ppm	0.0062	0.0082	0.0097	0.0103	≤ 0.1	符合
低溫低壓	-10 ℃ + 3.135 V	ppm	0.0067	0.0077	0.0087	0.0092	≤ 0.1	符合

測試環境	溫度	°C	24~25
	濕度	%	53~54
測試工程師		-----	Oscar Chi
發射天線之最大方向增益		dBi	4.00
標準供應電壓		VDC	3.30
關機電壓		VDC	3.10

註: 檢測終端設備之電源電壓低於關機電壓時, 終端設備已關機無發射

A.2 WCDMA Band III

傳導發射功率	單位	低頻道	中頻道	高頻道	限制	結果
	dBm	23.99	24.06	23.90	24 +1.7/-3.7	符合
電波功率密度	mW/cm ²	0.125236	0.127271	0.122668	0.9	符合

註1: Power Class 3

註2: 移動式終端設備

供電方式		直流電源						限制	結果
頻率穩定度		單位	第0分鐘	第2分鐘	第5分鐘	第10分鐘			
常溫常壓	20 °C + 3.3 V	ppm	0.0057	0.0069	0.0080	0.0097		≤ 0.1	符合
高溫高壓	55 °C + 4.4 V	ppm	0.0034	0.0052	0.0074	0.0086		≤ 0.1	符合
高溫低壓	55 °C + 3.135 V	ppm	0.0046	0.0052	0.0086	0.0092		≤ 0.1	符合
低溫高壓	-10 °C + 4.4 V	ppm	0.0109	0.0132	0.0132	0.0143		≤ 0.1	符合
低溫低壓	-10 °C + 3.135 V	ppm	0.0103	0.0114	0.0120	0.0132		≤ 0.1	符合

測試環境	溫度	°C	24~25
	濕度	%	53~54
測試工程師		-----	Oscar Chi
發射天線之最大方向增益		dBi	2.00
標準供應電壓		VDC	3.30
關機電壓		VDC	3.10

註：檢測終端設備之電源電壓低於關機電壓時，終端設備已關機無發射

A.3 WCDMA Band VIII

傳導發射功率	單位	低頻道	中頻道	高頻道	限制	結果
	dBm	23.91	23.58	23.81	24 +1.7/-3.7	符合
電波功率密度	mW/cm ²	0.07758	0.07190	0.07581	0.45	符合

註1： Power Class 3

註2： 移動式終端設備

供電方式		直流電源						
頻率穩定度		單位	第0分鐘	第2分鐘	第5分鐘	第10分鐘	限制	結果
常溫常壓	20 ℃ + 3.3 V	ppm	0.0056	0.0078	0.0100	0.0122	≤ 0.1	符合
高溫高壓	55 ℃ + 4.4 V	ppm	0.0044	0.0078	0.0122	0.0133	≤ 0.1	符合
高溫低壓	55 ℃ + 3.135 V	ppm	0.0100	0.0133	0.0133	0.0144	≤ 0.1	符合
低溫高壓	-10 ℃ + 4.4 V	ppm	0.0089	0.0111	0.0156	0.0189	≤ 0.1	符合
低溫低壓	-10 ℃ + 3.135 V	ppm	0.0067	0.0100	0.0122	0.0167	≤ 0.1	符合



<WCDMA Band 1>

Measurement Report

Operator: noname

2021年11月3日 上午 10:05:27

CMU Ident: Rohde&Schwarz,CMU 200-1100.0008.02,117995,V5.22

Options: 0,B17,B21Var14,B52Var14,B54Var14,B56Var54,B66,COPROC_FULL,B83,B85,B89,B96,PCMCIA,WDDC400,K16
K17,K20,K21,K22,K23,K24,K27,K28,K29,K42,K43,K56,K57,K58,K59,K60,K61,K62,K63,K64,K65,K66,K67
K68,K69,K83,K84,K85,K86,K88,K839,K849,K859,K869,FMR6,Intel Celeron Mobil,256 MB
rxtx1

Sequence: - - -

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
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Operating Band I, Channel DL/UL 10700/9750, Attenuation (In/Out) 7.5 / 7.5 dB

P-CPICH: -53.90 dBm, P-SCH: -5.00 dB, S-SCH: -5.00 dB, P-CCPCH: -2.00 dB, S-CCPCH: -2.00 dB

PICH: -5.00 dB, AICH -5.00 dB, DPDCH (Code 6): -7.00 dB, DPCCH/DPDCH Offset 0.00 dB

MCC 1, MNC 1, LAC 1 CallType RMC 12.2 kbps DL/UL, Test Loop Mode 2

IMSI: 001010123456789, Serial Number: 35173511-000752-9

Call to Mobile:			passed	✓
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DL Channel 10562, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10, UE Power Class 3

Maximum RMS Power:	21.00 dBm	25.00 dBm	23.82 dBm	✓
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DL Channel 10562, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10

Minimum RMS Power:		-50.00 dBm	-56.11 dBm	✓
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DL Channel 10562, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10, RF Target Level 0.0 dBm

WCDMA Demodulation (Maximum Values)

Carrier Frequency Error:	-195.00 Hz	195.00 Hz	0.87 Hz	✓
Magnitude Error (RMS):		17.50 %	2.18 %	✓
Magnitude Error (Peak):	-50.00 %	50.00 %	11.81 %	✓

DL Channel 10562, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10

ACLR FFT/OBW, 640 Chips (Average Values)

ACLR Channel -2 (RMS):		-43.00 dBc	-56.04 dBc	✓
ACLR Channel -1 (RMS):		-33.00 dBc	-49.26 dBc	✓
ACLR Channel +1 (RMS):		-33.00 dBc	-46.50 dBc	✓
ACLR Channel +2 (RMS):		-43.00 dBc	-53.50 dBc	✓
Occupied Bandwidth:		5.00 MHz	4.15 MHz	✓

DL Channel 10562, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10, 640 Chips

Emission Mask:			passed	✓
Margin fc-8.5 ... fc-12.5 MHz	0.00 dB		-11.63 dB	
Margin fc-7.5 ... fc-8.5 MHz	0.00 dB		-11.59 dB	
Margin fc-4.0 ... fc-7.5 MHz	0.00 dB		-18.45 dB	
Margin fc-2.5 ... fc-3.5 MHz	0.00 dB		-15.67 dB	
Margin fc+2.5 ... fc+3.5 MHz	0.00 dB		-13.24 dB	
Margin fc+4.0 ... fc+7.5 MHz	0.00 dB		-15.88 dB	
Margin fc+7.5 ... fc+8.5 MHz	0.00 dB		-9.30 dB	
Margin fc+8.5 ... fc+12.5 MHz	0.00 dB		-9.33 dB	

DL Channel 10700, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10, UE Power Class 3

Maximum RMS Power:	21.00 dBm	25.00 dBm	23.99 dBm	✓
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DL Channel 10700, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10

Minimum RMS Power:		-50.00 dBm	-56.05 dBm	✓
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Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
<i>DL Channel 10700, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10, RF Target Level 0.0 dBm</i>				
<i>WCDMA Demodulation (Maximum Values)</i>				
Carrier Frequency Error:	-195.00 Hz	195.00 Hz	5.14 Hz	✓
Magnitude Error (RMS):		17.50 %	2.21 %	✓
Magnitude Error (Peak):	-50.00 %	50.00 %	11.81 %	✓
<i>DL Channel 10700, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10</i>				
<i>ACLR FFT/OBW, 640 Chips (Average Values)</i>				
ACLR Channel -2 (RMS):		-43.00 dBc	-54.95 dBc	✓
ACLR Channel -1 (RMS):		-33.00 dBc	-48.12 dBc	✓
ACLR Channel +1 (RMS):		-33.00 dBc	-47.95 dBc	✓
ACLR Channel +2 (RMS):		-43.00 dBc	-53.70 dBc	✓
Occupied Bandwidth:		5.00 MHz	4.16 MHz	✓
<i>DL Channel 10700, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10, 640 Chips</i>				
Emission Mask:			passed	✓
Margin fc-8.5 ... fc-12.5 MHz	0.00 dB		-11.00 dB	
Margin fc-7.5 ... fc-8.5 MHz	0.00 dB		-10.96 dB	
Margin fc-4.0 ... fc-7.5 MHz	0.00 dB		-17.10 dB	
Margin fc-2.5 ... fc-3.5 MHz	0.00 dB		-16.56 dB	
Margin fc+2.5 ... fc+3.5 MHz	0.00 dB		-14.38 dB	
Margin fc+4.0 ... fc+7.5 MHz	0.00 dB		-17.91 dB	
Margin fc+7.5 ... fc+8.5 MHz	0.00 dB		-9.46 dB	
Margin fc+8.5 ... fc+12.5 MHz	0.00 dB		-9.24 dB	
<i>DL Channel 10838, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10, UE Power Class 3</i>				
Maximum RMS Power:	21.00 dBm	25.00 dBm	23.80 dBm	✓
<i>DL Channel 10838, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10</i>				
Minimum RMS Power:		-50.00 dBm	-56.33 dBm	✓
<i>DL Channel 10838, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10, RF Target Level 0.0 dBm</i>				
<i>WCDMA Demodulation (Maximum Values)</i>				
Carrier Frequency Error:	-195.00 Hz	195.00 Hz	7.06 Hz	✓
Magnitude Error (RMS):		17.50 %	2.38 %	✓
Magnitude Error (Peak):	-50.00 %	50.00 %	12.52 %	✓
<i>DL Channel 10838, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10</i>				
<i>ACLR FFT/OBW, 640 Chips (Average Values)</i>				
ACLR Channel -2 (RMS):		-43.00 dBc	-54.79 dBc	✓
ACLR Channel -1 (RMS):		-33.00 dBc	-48.48 dBc	✓
ACLR Channel +1 (RMS):		-33.00 dBc	-49.51 dBc	✓
ACLR Channel +2 (RMS):		-43.00 dBc	-54.07 dBc	✓
Occupied Bandwidth:		5.00 MHz	4.15 MHz	✓

Measurement Report



ROHDE & SCHWARZ

報告編號：TM160346

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
DL Channel 10838, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10, 640 Chips				
Emission Mask:			passed	✓
Margin fc-8.5 ... fc-12.5 MHz	0.00 dB		-10.62 dB	
Margin fc-7.5 ... fc-8.5 MHz	0.00 dB		-10.61 dB	
Margin fc-4.0 ... fc-7.5 MHz	0.00 dB		-17.36 dB	
Margin fc-2.5 ... fc-3.5 MHz	0.00 dB		-17.20 dB	
Margin fc+2.5 ... fc+3.5 MHz	0.00 dB		-14.37 dB	
Margin fc+4.0 ... fc+7.5 MHz	0.00 dB		-18.34 dB	
Margin fc+7.5 ... fc+8.5 MHz	0.00 dB		-9.59 dB	
Margin fc+8.5 ... fc+12.5 MHz	0.00 dB		-9.62 dB	
Call Release Test:			passed	✓

MS Serial Number: 35173511-000752-9

Result:

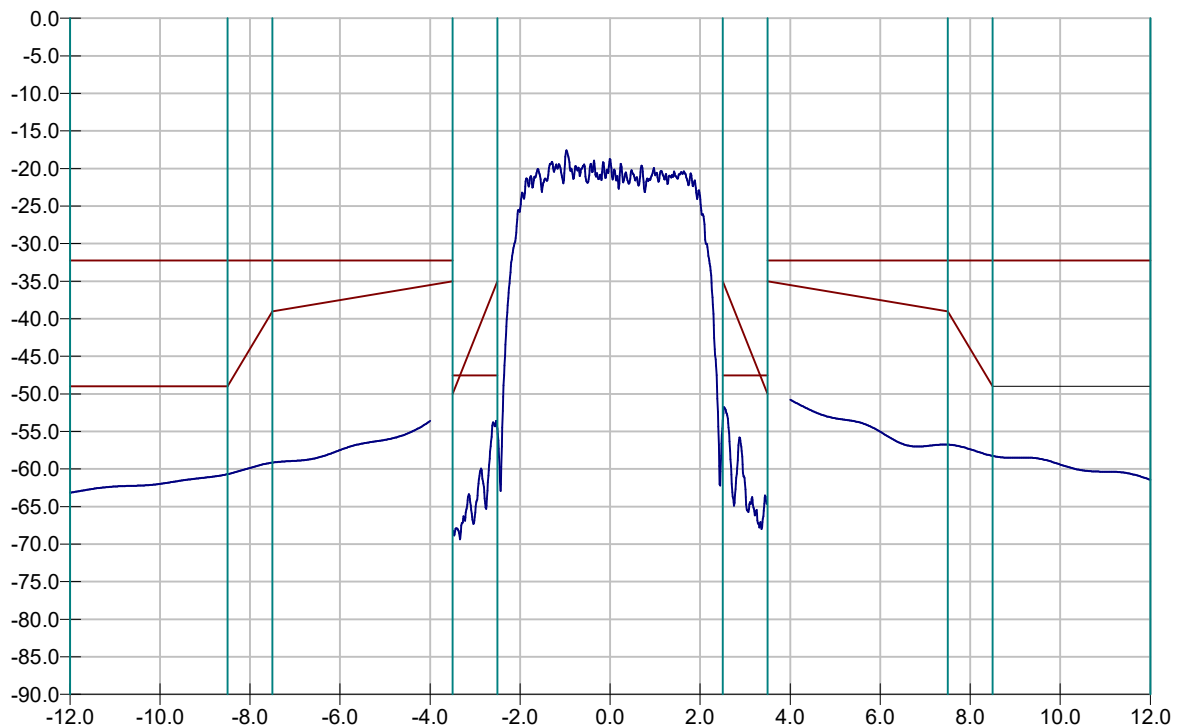
(Execution Time: 47.0 Seconds)

35 Tests passed / 0 Tests failed

Annex:

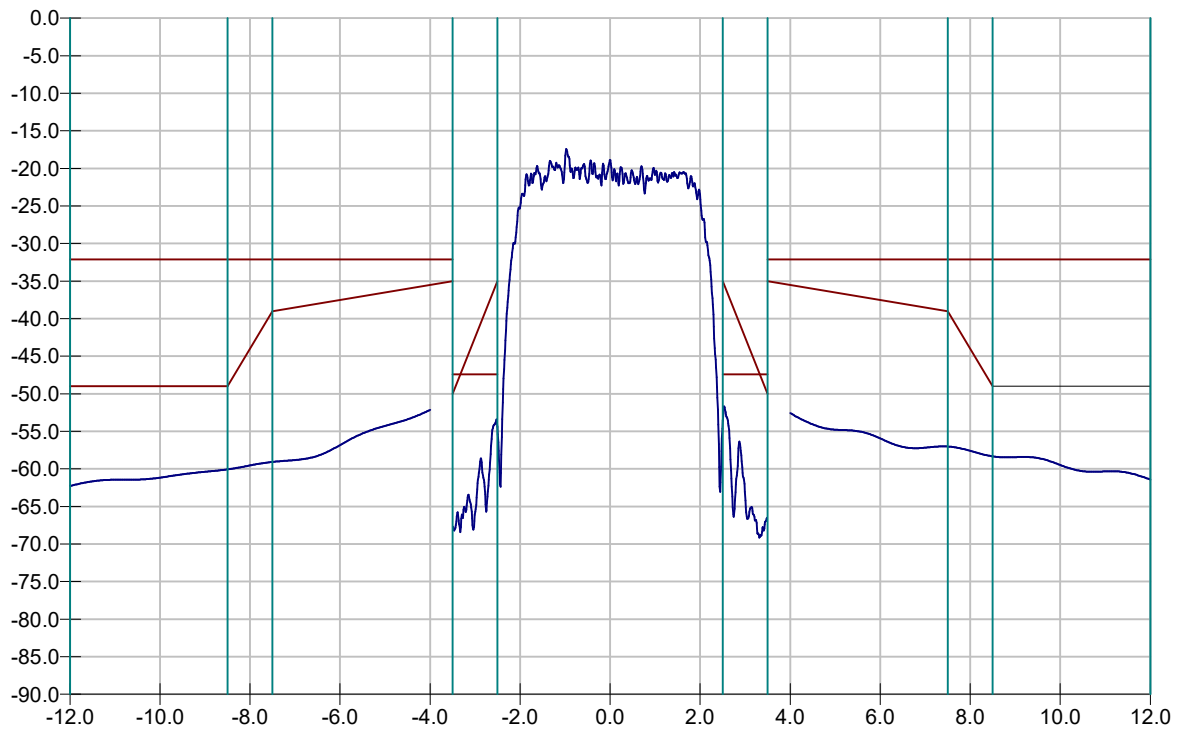
Emission Mask Graph

DL Channel 10562, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10, 640 Chips



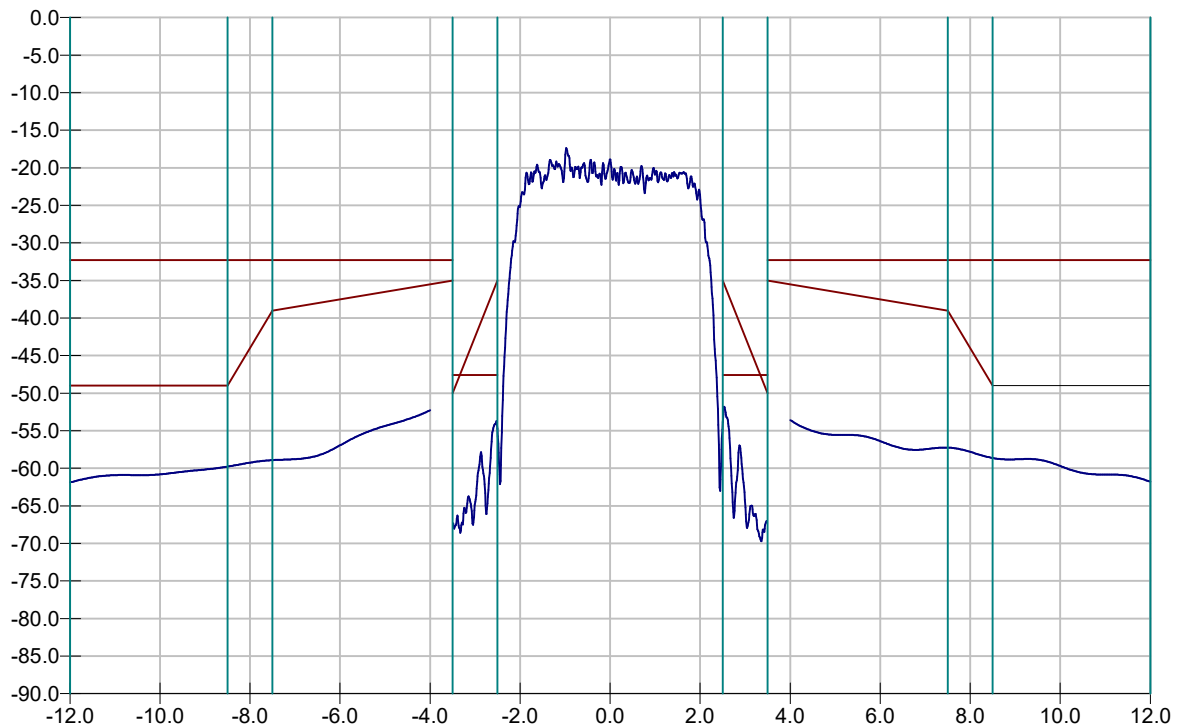
Annex: Emission Mask Graph

DL Channel 10700, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10, 640 Chips



Annex: Emission Mask Graph

DL Channel 10838, Attenuation (In/Out) 7.5 / 7.5 dB, Averaging: 10, 640 Chips





<WCDMA Band 3>

Measurement Report

Operator: noname 2021年11月3日 上午 10:08:00

CMU Ident: Rohde&Schwarz,CMU 200-1100.0008.02,117995,V5.22

Options: 0,B17,B21Var14,B52Var14,B54Var14,B56Var54,B66,COPROC_FULL,B83,B85,B89,B96,PCMCIA,WDDC400,K16
K17,K20,K21,K22,K23,K24,K27,K28,K29,K42,K43,K56,K57,K58,K59,K60,K61,K62,K63,K64,K65,K66,K67
K68,K69,K83,K84,K85,K86,K88,K839,K849,K859,K869,FMR6,Intel Celeron Mobil,256 MB
rxtx1

Sequence: - - -

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
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Operating Band III, Channel DL/UL 1338/1113, Attenuation (In/Out) 7.3 / 7.3 dB

P-CPICH: -53.90 dBm, P-SCH: -5.00 dB, S-SCH: -5.00 dB, P-CCPCH: -2.00 dB, S-CCPCH: -2.00 dB

PICH: -5.00 dB, AICH -5.00 dB, DPDCH (Code 6): -7.00 dB, DPCCH/DPDCH Offset 0.00 dB

MCC 1, MNC 1, LAC 1 CallType RMC 12.2 kbps DL/UL, Test Loop Mode 2

IMSI: 001010123456789, Serial Number: 35173511-000752-9

Call to Mobile:			passed	✓
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DL Channel 1162, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10, UE Power Class 3

Maximum RMS Power:	21.00 dBm	25.00 dBm	23.99 dBm	✓
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DL Channel 1162, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10

Minimum RMS Power:		-50.00 dBm	-55.94 dBm	✓
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DL Channel 1162, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10, RF Target Level 0.0 dBm

WCDMA Demodulation (Maximum Values)

Carrier Frequency Error:	-195.00 Hz	195.00 Hz	-8.59 Hz	✓
Magnitude Error (RMS):		17.50 %	2.08 %	✓
Magnitude Error (Peak):	-50.00 %	50.00 %	13.36 %	✓

DL Channel 1162, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10

ACLR FFT/OBW, 640 Chips (Average Values)

ACLR Channel -2 (RMS):		-43.00 dBc	-56.83 dBc	✓
ACLR Channel -1 (RMS):		-33.00 dBc	-46.61 dBc	✓
ACLR Channel +1 (RMS):		-33.00 dBc	-47.68 dBc	✓
ACLR Channel +2 (RMS):		-43.00 dBc	-55.99 dBc	✓
Occupied Bandwidth:		5.00 MHz	4.15 MHz	✓

DL Channel 1162, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10, 640 Chips

Emission Mask:			passed	✓
Margin fc-8.5 ... fc-12.5 MHz	0.00 dB		-12.74 dB	
Margin fc-7.5 ... fc-8.5 MHz	0.00 dB		-12.69 dB	
Margin fc-4.0 ... fc-7.5 MHz	0.00 dB		-16.29 dB	
Margin fc-2.5 ... fc-3.5 MHz	0.00 dB		-15.95 dB	
Margin fc+2.5 ... fc+3.5 MHz	0.00 dB		-14.78 dB	
Margin fc+4.0 ... fc+7.5 MHz	0.00 dB		-16.91 dB	
Margin fc+7.5 ... fc+8.5 MHz	0.00 dB		-12.34 dB	
Margin fc+8.5 ... fc+12.5 MHz	0.00 dB		-12.38 dB	

DL Channel 1338, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10, UE Power Class 3

Maximum RMS Power:	21.00 dBm	25.00 dBm	24.06 dBm	✓
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DL Channel 1338, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10

Minimum RMS Power:		-50.00 dBm	-55.73 dBm	✓
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Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
DL Channel 1338, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10, RF Target Level 0.0 dBm				
WCDMA Demodulation (Maximum Values)				
Carrier Frequency Error:	-195.00 Hz	195.00 Hz	-6.82 Hz	✓
Magnitude Error (RMS):		17.50 %	2.14 %	✓
Magnitude Error (Peak):	-50.00 %	50.00 %	8.20 %	✓
DL Channel 1338, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10				
ACLR FFT/OBW, 640 Chips (Average Values)				
ACLR Channel -2 (RMS):		-43.00 dBc	-56.75 dBc	✓
ACLR Channel -1 (RMS):		-33.00 dBc	-48.30 dBc	✓
ACLR Channel +1 (RMS):		-33.00 dBc	-44.60 dBc	✓
ACLR Channel +2 (RMS):		-43.00 dBc	-54.20 dBc	✓
Occupied Bandwidth:		5.00 MHz	4.15 MHz	✓
DL Channel 1338, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10, 640 Chips				
Emission Mask:			passed	✓
Margin fc-8.5 ... fc-12.5 MHz	0.00 dB		-12.62 dB	
Margin fc-7.5 ... fc-8.5 MHz	0.00 dB		-12.61 dB	
Margin fc-4.0 ... fc-7.5 MHz	0.00 dB		-18.37 dB	
Margin fc-2.5 ... fc-3.5 MHz	0.00 dB		-15.22 dB	
Margin fc+2.5 ... fc+3.5 MHz	0.00 dB		-13.20 dB	
Margin fc+4.0 ... fc+7.5 MHz	0.00 dB		-13.64 dB	
Margin fc+7.5 ... fc+8.5 MHz	0.00 dB		-9.46 dB	
Margin fc+8.5 ... fc+12.5 MHz	0.00 dB		-9.48 dB	
DL Channel 1513, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10, UE Power Class 3				
Maximum RMS Power:	21.00 dBm	25.00 dBm	23.90 dBm	✓
DL Channel 1513, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10				
Minimum RMS Power:		-50.00 dBm	-55.86 dBm	✓
DL Channel 1513, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10, RF Target Level 0.0 dBm				
WCDMA Demodulation (Maximum Values)				
Carrier Frequency Error:	-195.00 Hz	195.00 Hz	-5.05 Hz	✓
Magnitude Error (RMS):		17.50 %	2.62 %	✓
Magnitude Error (Peak):	-50.00 %	50.00 %	10.96 %	✓
DL Channel 1513, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10				
ACLR FFT/OBW, 640 Chips (Average Values)				
ACLR Channel -2 (RMS):		-43.00 dBc	-56.39 dBc	✓
ACLR Channel -1 (RMS):		-33.00 dBc	-46.90 dBc	✓
ACLR Channel +1 (RMS):		-33.00 dBc	-46.94 dBc	✓
ACLR Channel +2 (RMS):		-43.00 dBc	-56.74 dBc	✓
Occupied Bandwidth:		5.00 MHz	4.15 MHz	✓

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
DL Channel 1513, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10, 640 Chips				
Emission Mask:			passed	✓
Margin fc-8.5 ... fc-12.5 MHz	0.00 dB		-11.60 dB	
Margin fc-7.5 ... fc-8.5 MHz	0.00 dB		-11.56 dB	
Margin fc-4.0 ... fc-7.5 MHz	0.00 dB		-14.07 dB	
Margin fc-2.5 ... fc-3.5 MHz	0.00 dB		-13.81 dB	
Margin fc+2.5 ... fc+3.5 MHz	0.00 dB		-12.68 dB	
Margin fc+4.0 ... fc+7.5 MHz	0.00 dB		-13.48 dB	
Margin fc+7.5 ... fc+8.5 MHz	0.00 dB		-11.20 dB	
Margin fc+8.5 ... fc+12.5 MHz	0.00 dB		-11.25 dB	
Call Release Test:			passed	✓

MS Serial Number: 35173511-000752-9

Result:

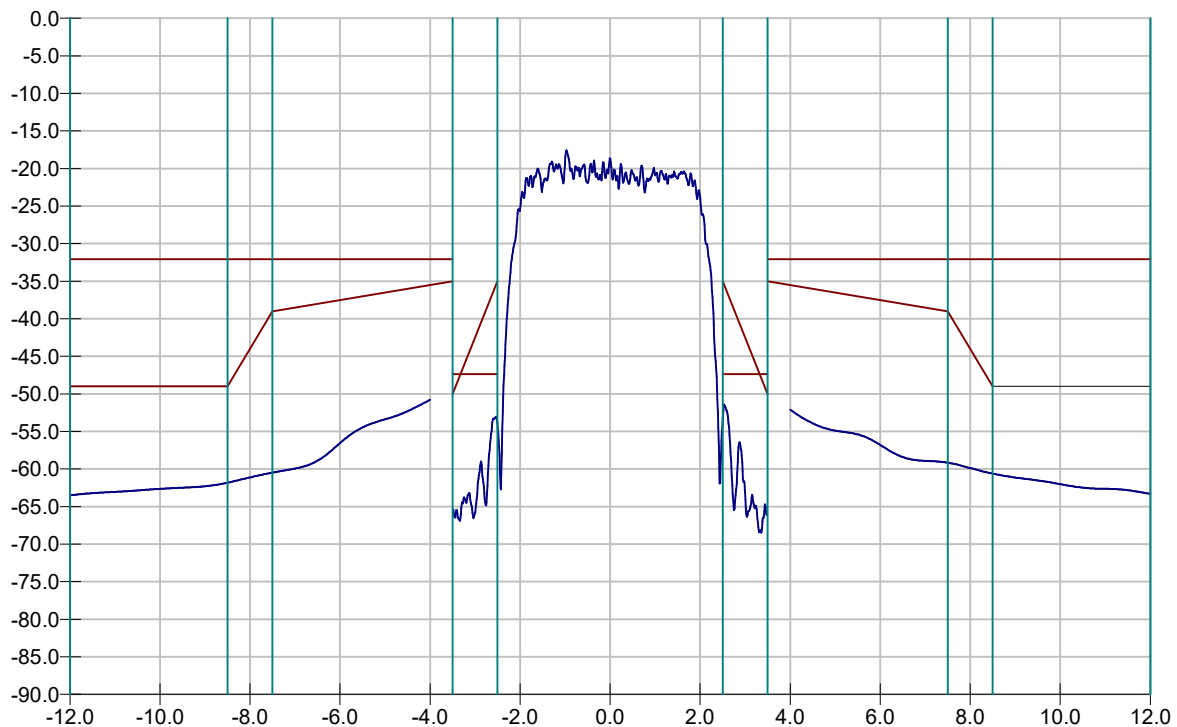
(Execution Time: 49.5 Seconds)

35 Tests passed / 0 Tests failed

Annex:

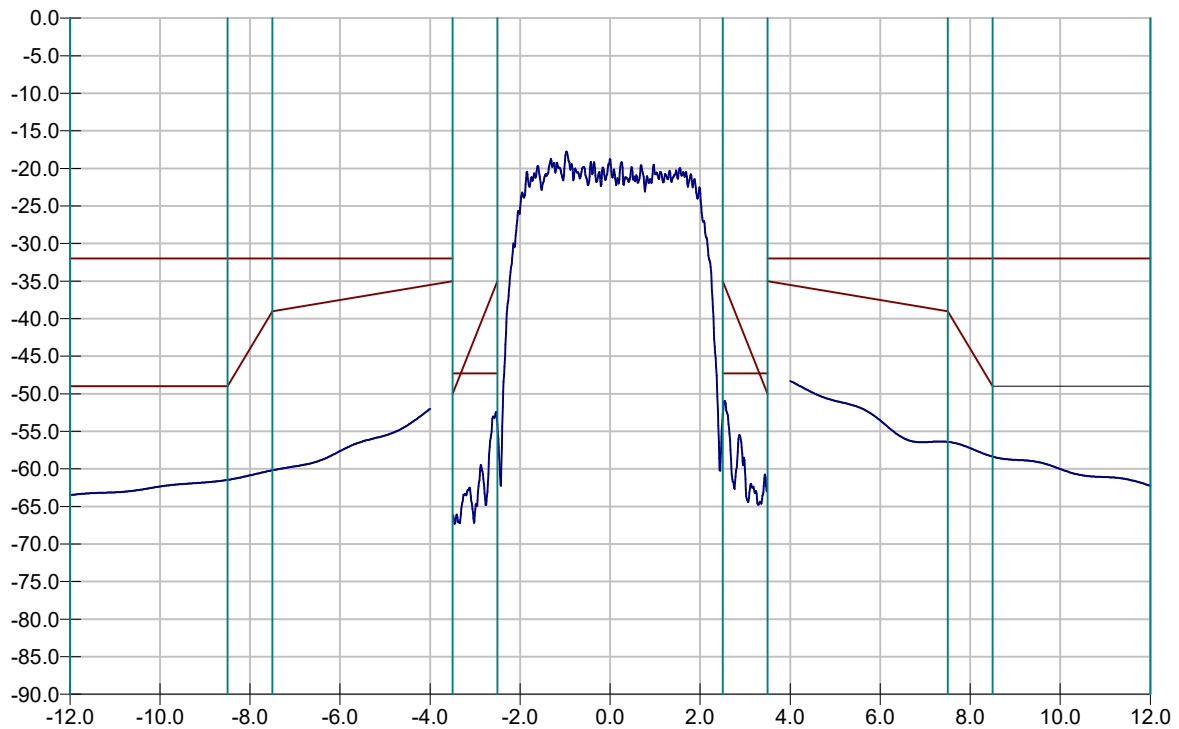
Emission Mask Graph

DL Channel 1162, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10, 640 Chips



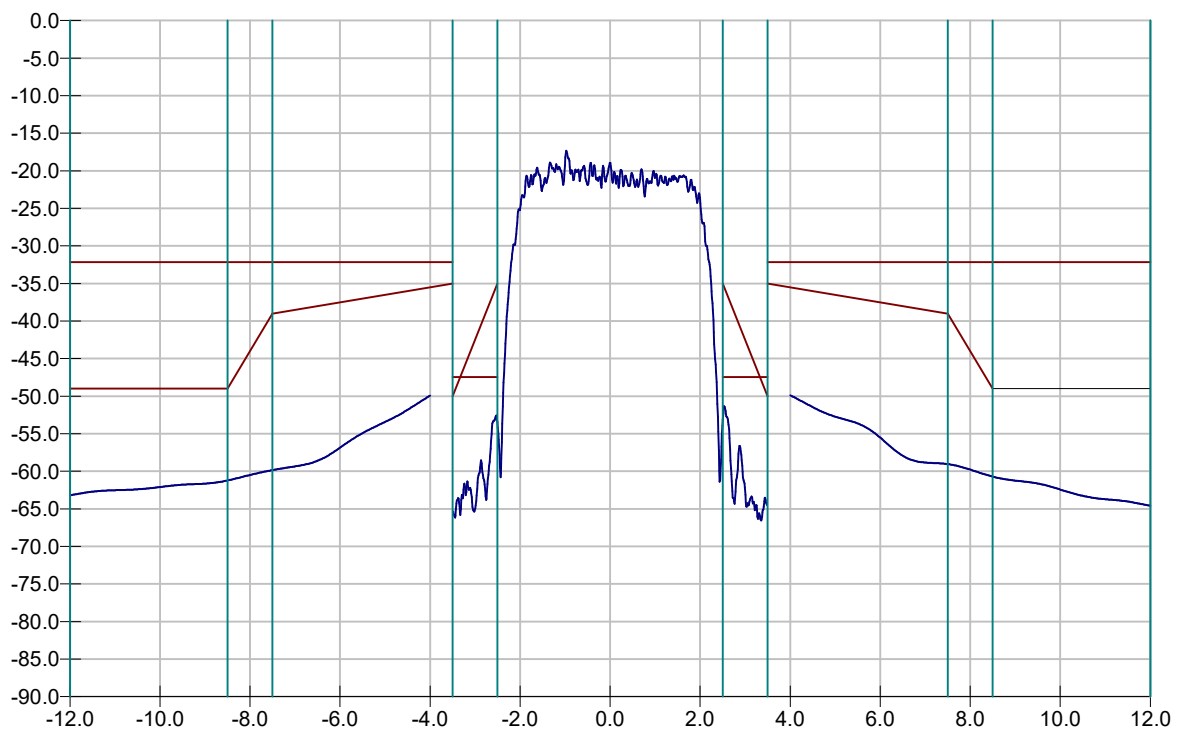
Annex: Emission Mask Graph

DL Channel 1338, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10, 640 Chips



Annex: Emission Mask Graph

DL Channel 1513, Attenuation (In/Out) 7.3 / 7.3 dB, Averaging: 10, 640 Chips





<WCDMA Band 8>

Measurement Report

Operator: noname

2021年11月3日 上午 10:13:57

CMU Ident: Rohde&Schwarz,CMU 200-1100.0008.02,117995,V5.22

Options: 0,B17,B21Var14,B52Var14,B54Var14,B56Var54,B66,COPROC_FULL,B83,B85,B89,B96,PCMCIA,WDDC400,K16
K17,K20,K21,K22,K23,K24,K27,K28,K29,K42,K43,K56,K57,K58,K59,K60,K61,K62,K63,K64,K65,K66,K67
K68,K69,K83,K84,K85,K86,K88,K839,K849,K859,K869,FMR6,Intel Celeron Mobil,256 MB
rxtx1

Sequence: - - -

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
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Operating Band VIII, Channel DL/UL 3025/2800, Attenuation (In/Out) 5.8 / 5.8 dB

P-CPICH: -53.90 dBm, P-SCH: -5.00 dB, S-SCH: -5.00 dB, P-CCPCH: -2.00 dB, S-CCPCH: -2.00 dB

PICH: -5.00 dB, AICH -5.00 dB, DPDCH (Code 6): -7.00 dB, DPCCH/DPDCH Offset 0.00 dB

MCC 1, MNC 1, LAC 1 CallType RMC 12.2 kbps DL/UL, Test Loop Mode 2

IMSI: 001010123456789, Serial Number: 35173511-000752-9

Call to Mobile:			passed	✓
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DL Channel 2962, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10, UE Power Class 3

Maximum RMS Power:	21.00 dBm	25.00 dBm	23.91 dBm	✓
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DL Channel 2962, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10

Minimum RMS Power:		-50.00 dBm	-56.22 dBm	✓
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DL Channel 2962, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10, RF Target Level 0.0 dBm

WCDMA Demodulation (Maximum Values)

Carrier Frequency Error:	-195.00 Hz	195.00 Hz	-0.08 Hz	✓
Magnitude Error (RMS):		17.50 %	1.70 %	✓
Magnitude Error (Peak):	-50.00 %	50.00 %	11.56 %	✓

DL Channel 2962, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10

ACLR FFT/OBW, 640 Chips (Average Values)

ACLR Channel -2 (RMS):		-43.00 dBc	-57.17 dBc	✓
ACLR Channel -1 (RMS):		-33.00 dBc	-44.19 dBc	✓
ACLR Channel +1 (RMS):		-33.00 dBc	-46.35 dBc	✓
ACLR Channel +2 (RMS):		-43.00 dBc	-50.07 dBc	✓
Occupied Bandwidth:		5.00 MHz	4.15 MHz	✓

DL Channel 2962, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10, 640 Chips

Emission Mask:			passed	✓
Margin fc-8.5 ... fc-12.5 MHz	0.00 dB		-11.00 dB	
Margin fc-7.5 ... fc-8.5 MHz	0.00 dB		-10.92 dB	
Margin fc-4.0 ... fc-7.5 MHz	0.00 dB		-12.69 dB	
Margin fc-2.5 ... fc-3.5 MHz	0.00 dB		-12.09 dB	
Margin fc+2.5 ... fc+3.5 MHz	0.00 dB		-14.45 dB	
Margin fc+4.0 ... fc+7.5 MHz	0.00 dB		-13.98 dB	
Margin fc+7.5 ... fc+8.5 MHz	0.00 dB		-5.83 dB	
Margin fc+8.5 ... fc+12.5 MHz	0.00 dB		-4.51 dB	

DL Channel 3025, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10, UE Power Class 3

Maximum RMS Power:	21.00 dBm	25.00 dBm	23.58 dBm	✓
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DL Channel 3025, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10

Minimum RMS Power:		-50.00 dBm	-56.30 dBm	✓
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Measurement Report

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
DL Channel 3025, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10, RF Target Level 0.0 dBm				
WCDMA Demodulation (Maximum Values)				
Carrier Frequency Error:	-195.00 Hz	195.00 Hz	1.36 Hz	✓
Magnitude Error (RMS):		17.50 %	1.85 %	✓
Magnitude Error (Peak):	-50.00 %	50.00 %	11.55 %	✓
DL Channel 3025, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10				
ACLR FFT/OBW, 640 Chips (Average Values)				
ACLR Channel -2 (RMS):		-43.00 dBc	-56.64 dBc	✓
ACLR Channel -1 (RMS):		-33.00 dBc	-48.16 dBc	✓
ACLR Channel +1 (RMS):		-33.00 dBc	-49.42 dBc	✓
ACLR Channel +2 (RMS):		-43.00 dBc	-54.93 dBc	✓
Occupied Bandwidth:		5.00 MHz	4.15 MHz	✓
DL Channel 3025, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10, 640 Chips				
Emission Mask:			passed	✓
Margin fc-8.5 ... fc-12.5 MHz	0.00 dB		-11.90 dB	
Margin fc-7.5 ... fc-8.5 MHz	0.00 dB		-11.85 dB	
Margin fc-4.0 ... fc-7.5 MHz	0.00 dB		-17.12 dB	
Margin fc-2.5 ... fc-3.5 MHz	0.00 dB		-15.54 dB	
Margin fc+2.5 ... fc+3.5 MHz	0.00 dB		-16.18 dB	
Margin fc+4.0 ... fc+7.5 MHz	0.00 dB		-17.93 dB	
Margin fc+7.5 ... fc+8.5 MHz	0.00 dB		-10.67 dB	
Margin fc+8.5 ... fc+12.5 MHz	0.00 dB		-10.12 dB	
DL Channel 3088, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10, UE Power Class 3				
Maximum RMS Power:	21.00 dBm	25.00 dBm	23.81 dBm	✓
DL Channel 3088, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10				
Minimum RMS Power:		-50.00 dBm	-56.22 dBm	✓
DL Channel 3088, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10, RF Target Level 0.0 dBm				
WCDMA Demodulation (Maximum Values)				
Carrier Frequency Error:	-195.00 Hz	195.00 Hz	2.85 Hz	✓
Magnitude Error (RMS):		17.50 %	2.45 %	✓
Magnitude Error (Peak):	-50.00 %	50.00 %	11.48 %	✓
DL Channel 3088, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10				
ACLR FFT/OBW, 640 Chips (Average Values)				
ACLR Channel -2 (RMS):		-43.00 dBc	-54.62 dBc	✓
ACLR Channel -1 (RMS):		-33.00 dBc	-44.16 dBc	✓
ACLR Channel +1 (RMS):		-33.00 dBc	-46.10 dBc	✓
ACLR Channel +2 (RMS):		-43.00 dBc	-59.27 dBc	✓
Occupied Bandwidth:		5.00 MHz	4.15 MHz	✓

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
<i>DL Channel 3088, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10, 640 Chips</i>				
Emission Mask:			passed	✓
Margin fc-8.5 ... fc-12.5 MHz	0.00 dB		-9.54 dB	
Margin fc-7.5 ... fc-8.5 MHz	0.00 dB		-9.47 dB	
Margin fc-4.0 ... fc-7.5 MHz	0.00 dB		-12.34 dB	
Margin fc-2.5 ... fc-3.5 MHz	0.00 dB		-12.43 dB	
Margin fc+2.5 ... fc+3.5 MHz	0.00 dB		-10.89 dB	
Margin fc+4.0 ... fc+7.5 MHz	0.00 dB		-14.29 dB	
Margin fc+7.5 ... fc+8.5 MHz	0.00 dB		-14.16 dB	
Margin fc+8.5 ... fc+12.5 MHz	0.00 dB		-14.27 dB	
Call Release Test:			passed	✓

MS Serial Number: 35173511-000752-9

Result:

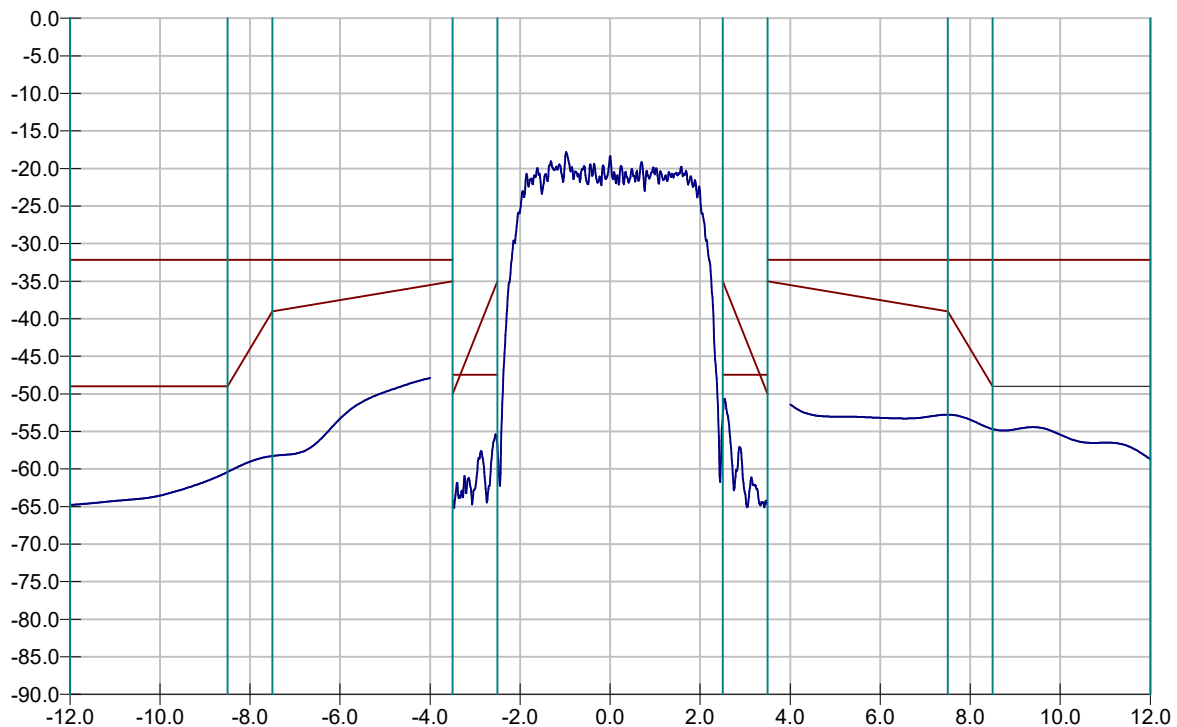
(Execution Time: 65.9 Seconds)

35 Tests passed / 0 Tests failed

Annex:

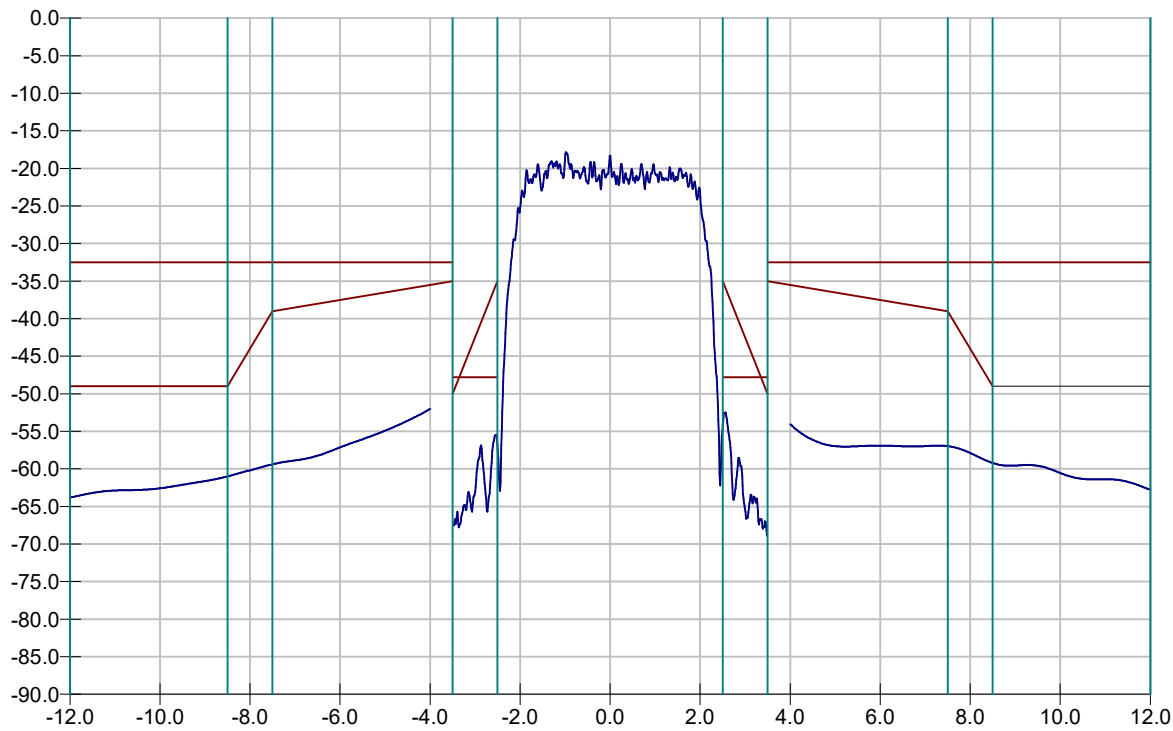
Emission Mask Graph

DL Channel 2962, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10, 640 Chips



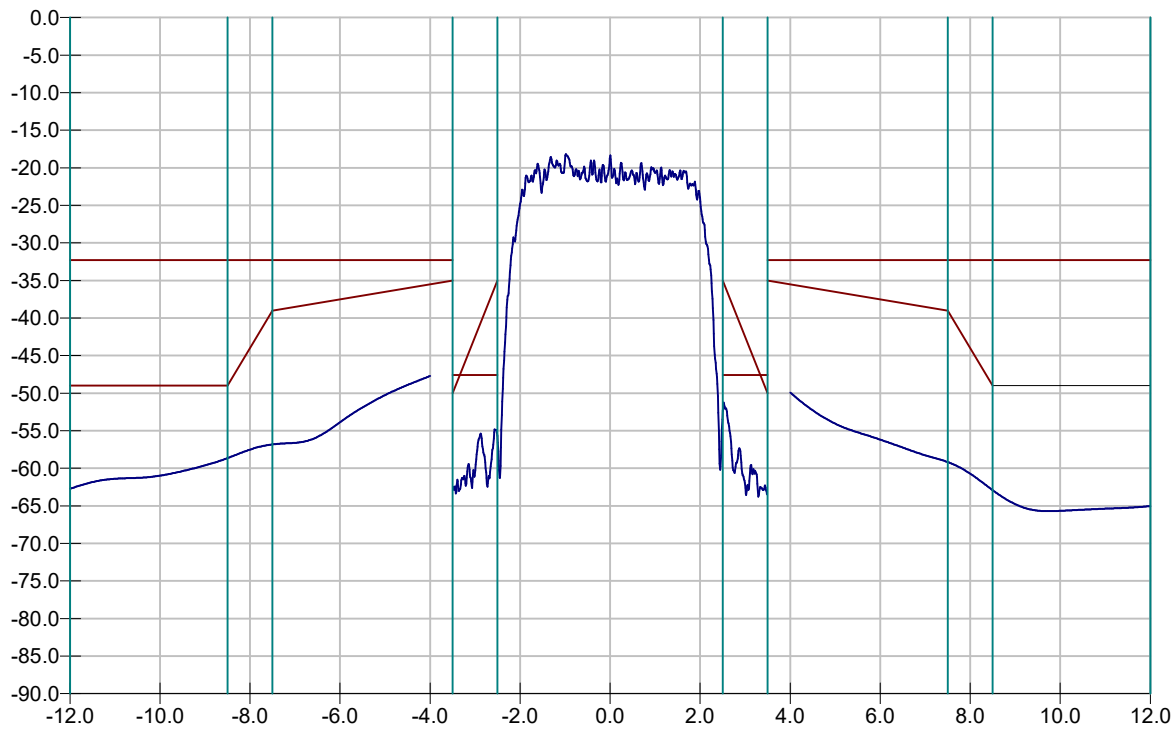
Annex: Emission Mask Graph

DL Channel 3025, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10, 640 Chips



Annex: Emission Mask Graph

DL Channel 3088, Attenuation (In/Out) 5.8 / 5.8 dB, Averaging: 10, 640 Chips

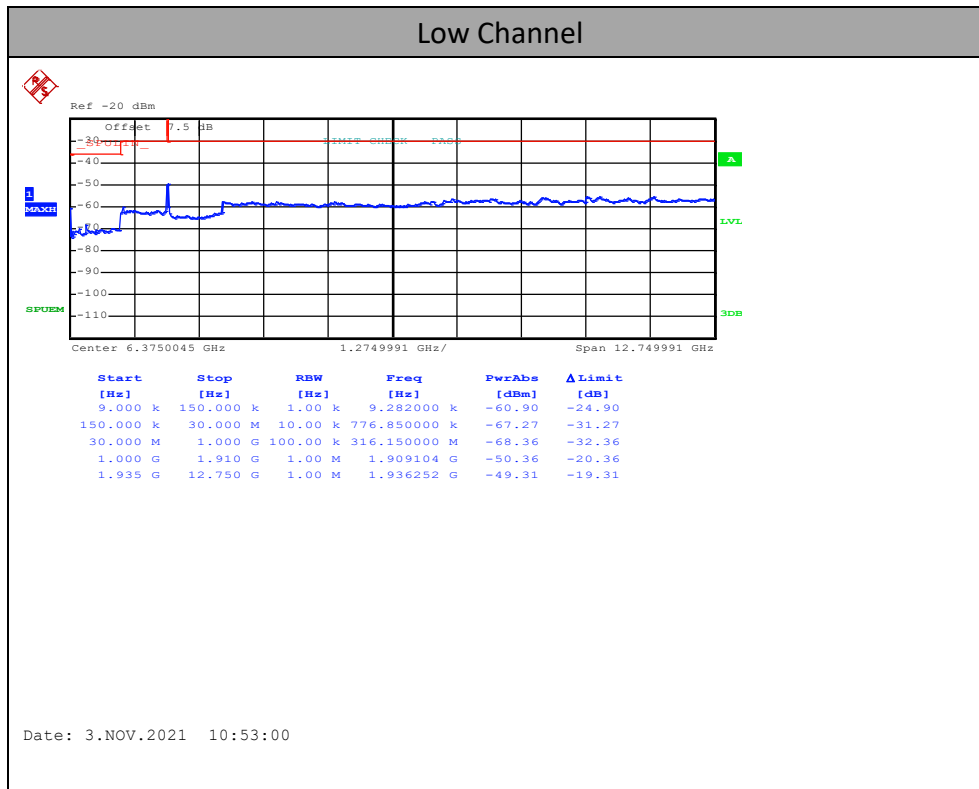




附錄 B. 混附波輻射

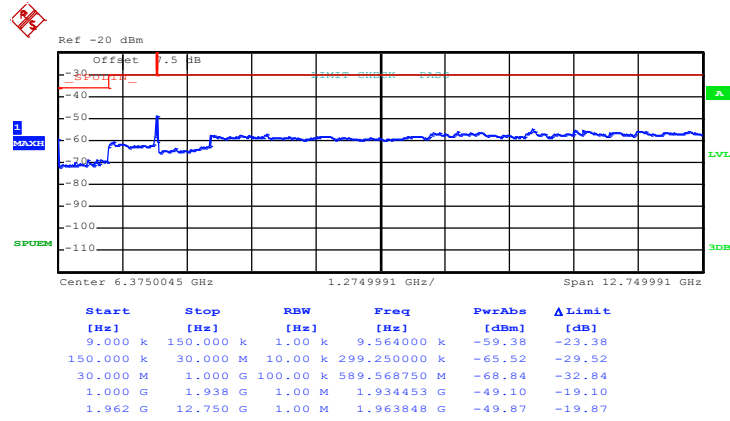
PLMN08 General Spurious Emissions

W-CDMA Band I



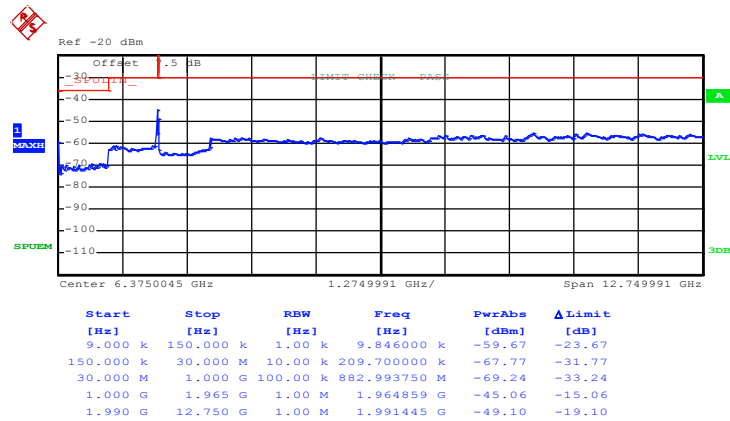


Middle Channel



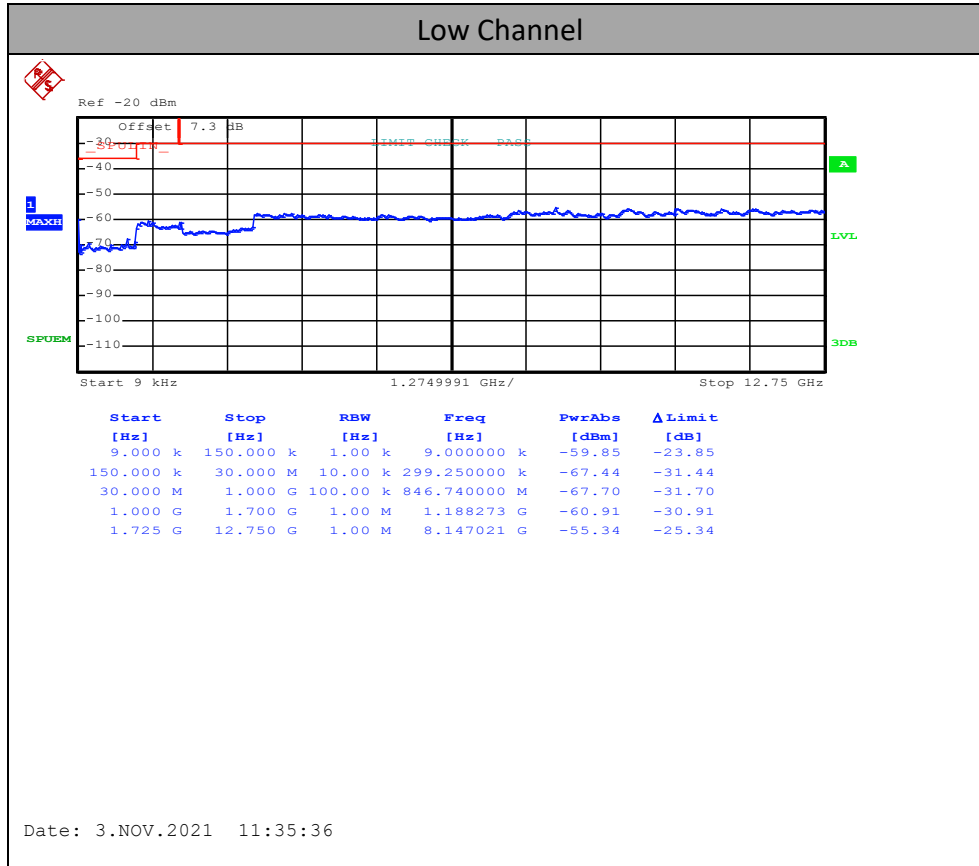
Date: 3.NOV.2021 10:48:51

High Channel

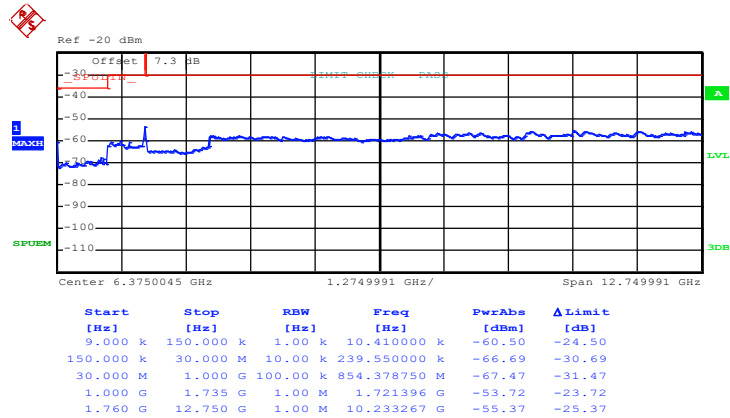


Date: 3.NOV.2021 10:35:25

W-CDMA Band III

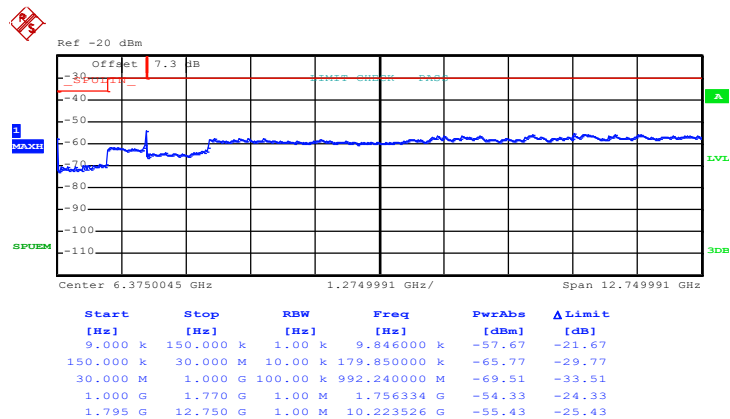


Middle Channel



Date: 3.NOV.2021 11:30:02

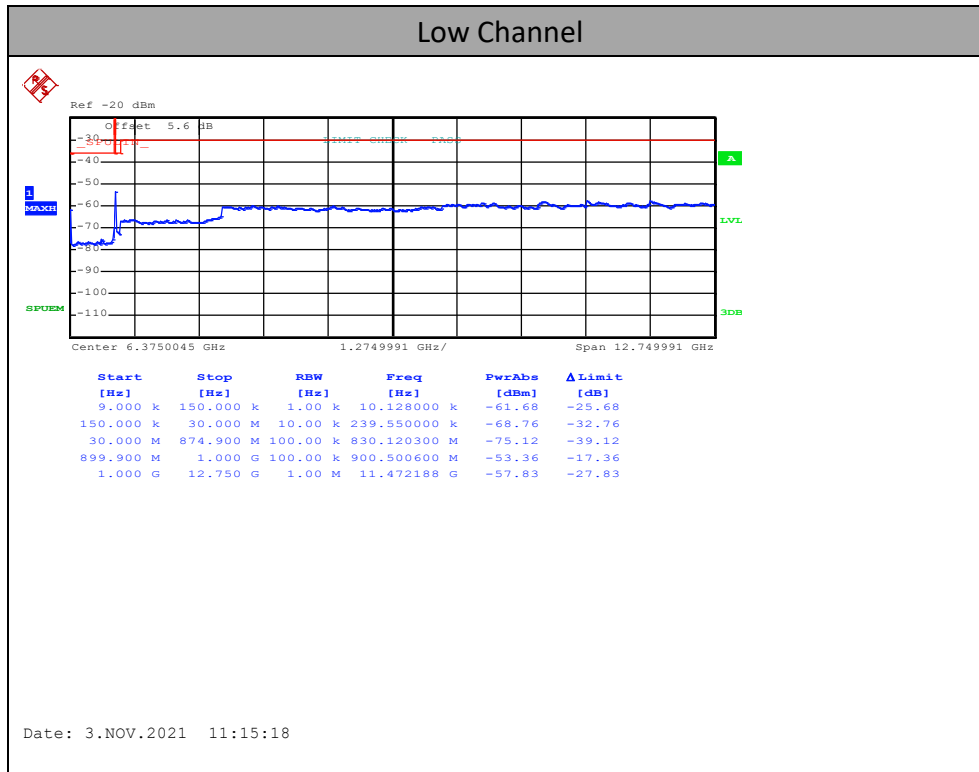
High Channel



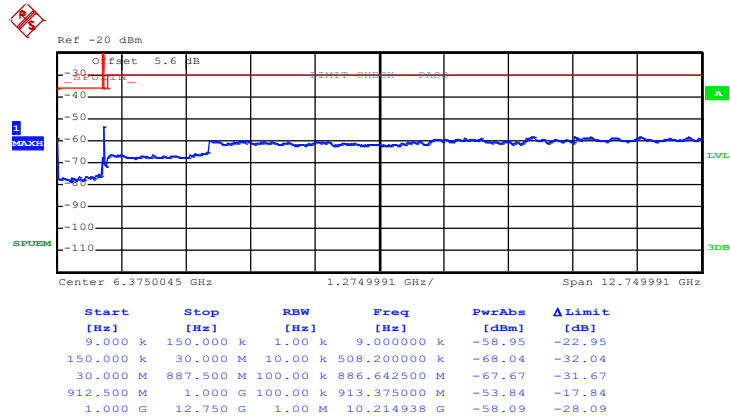
Date: 3.NOV.2021 11:22:54



W-CDMA Band VIII

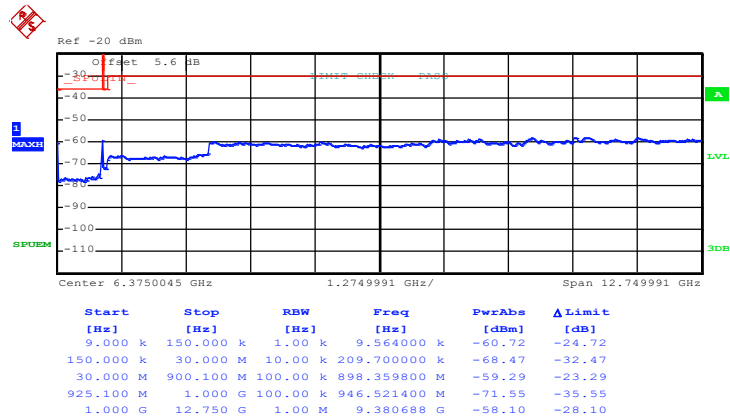


Middle Channel



Date: 3.NOV.2021 11:11:18

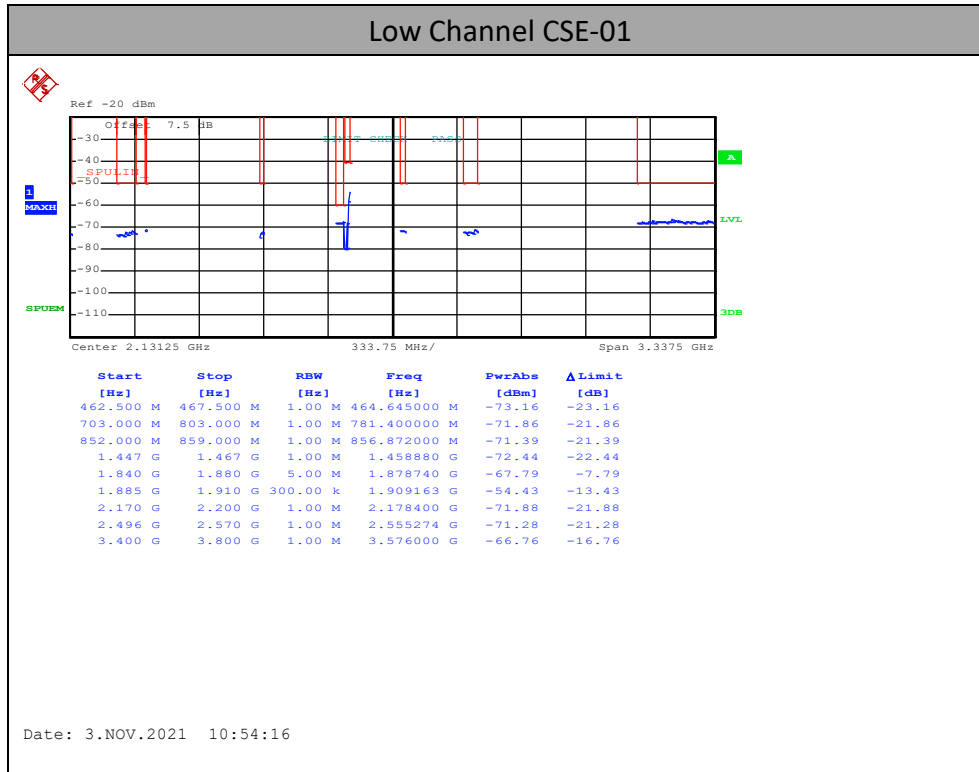
High Channel



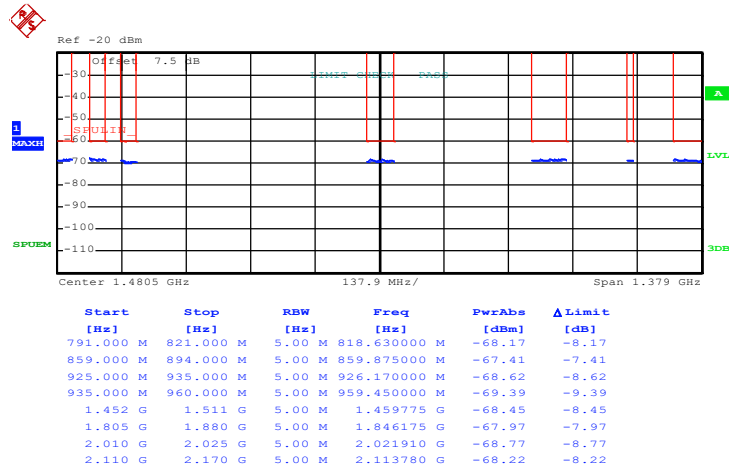
Date: 3.NOV.2021 11:06:01

PLMN08 Additional Spurious Emissions

W-CDMA Band I

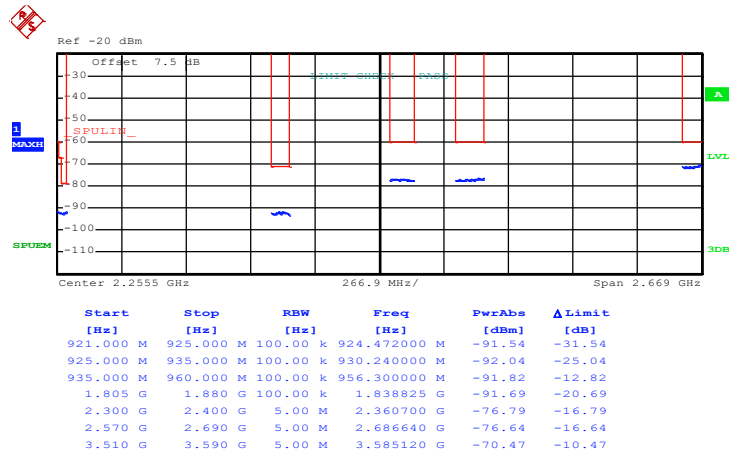


Low Channel CSE-02

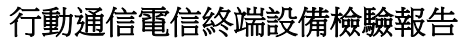


Date: 3.NOV.2021 10:53:28

Low Channel CSE-03



Date: 3.NOV.2021 10:53:48

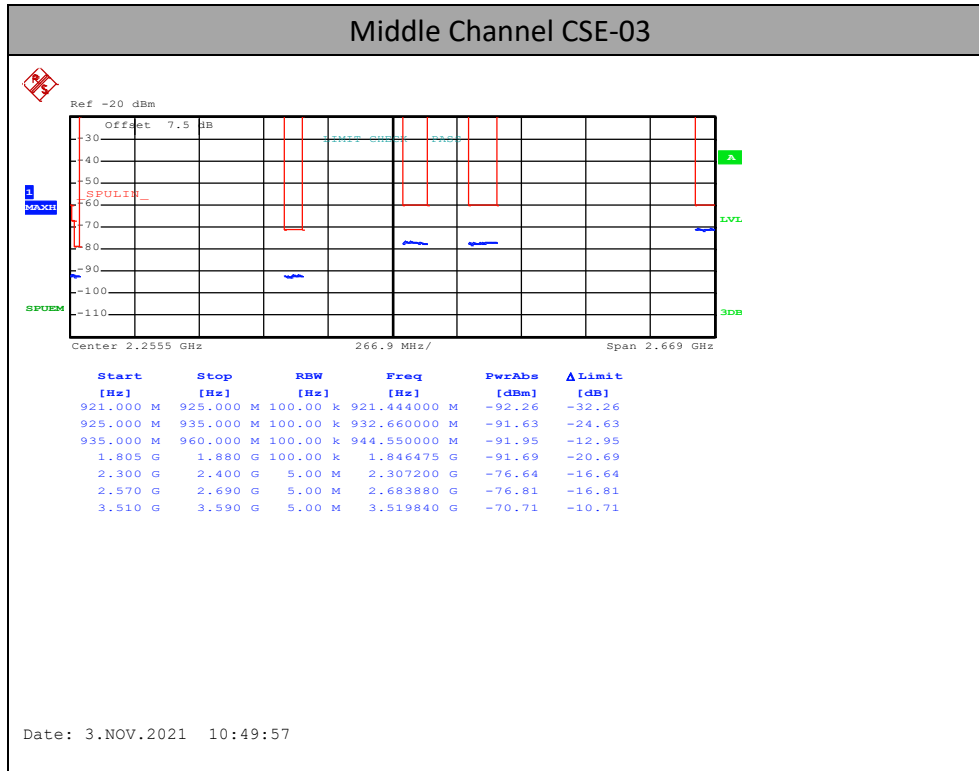


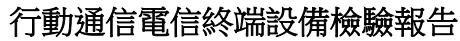
Middle Channel CSE-01



Middle Channel CSE-02





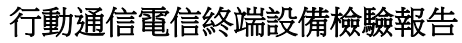


High Channel CSE-01



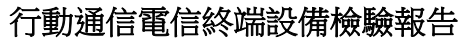
High Channel CSE-02



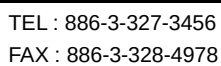


High Channel CSE-03

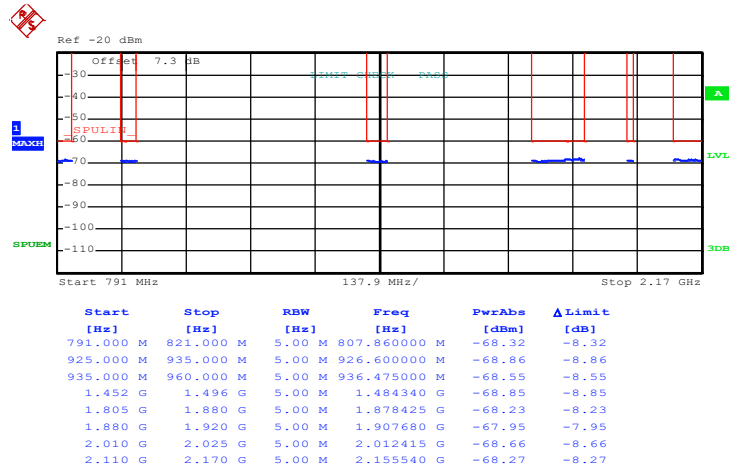




W-CDMA Band III

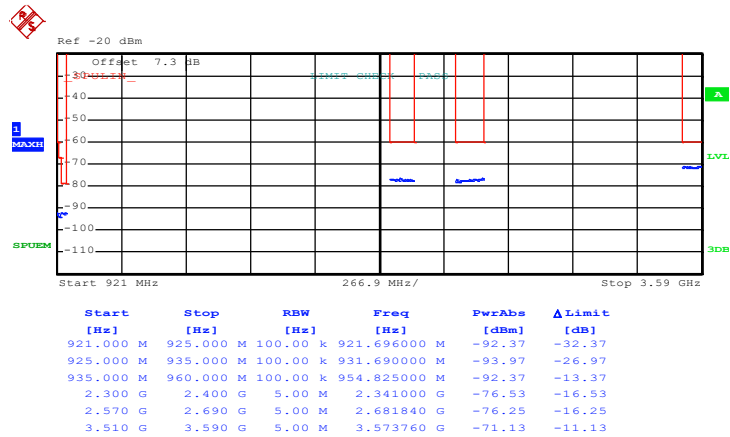


Low Channel CSE-02

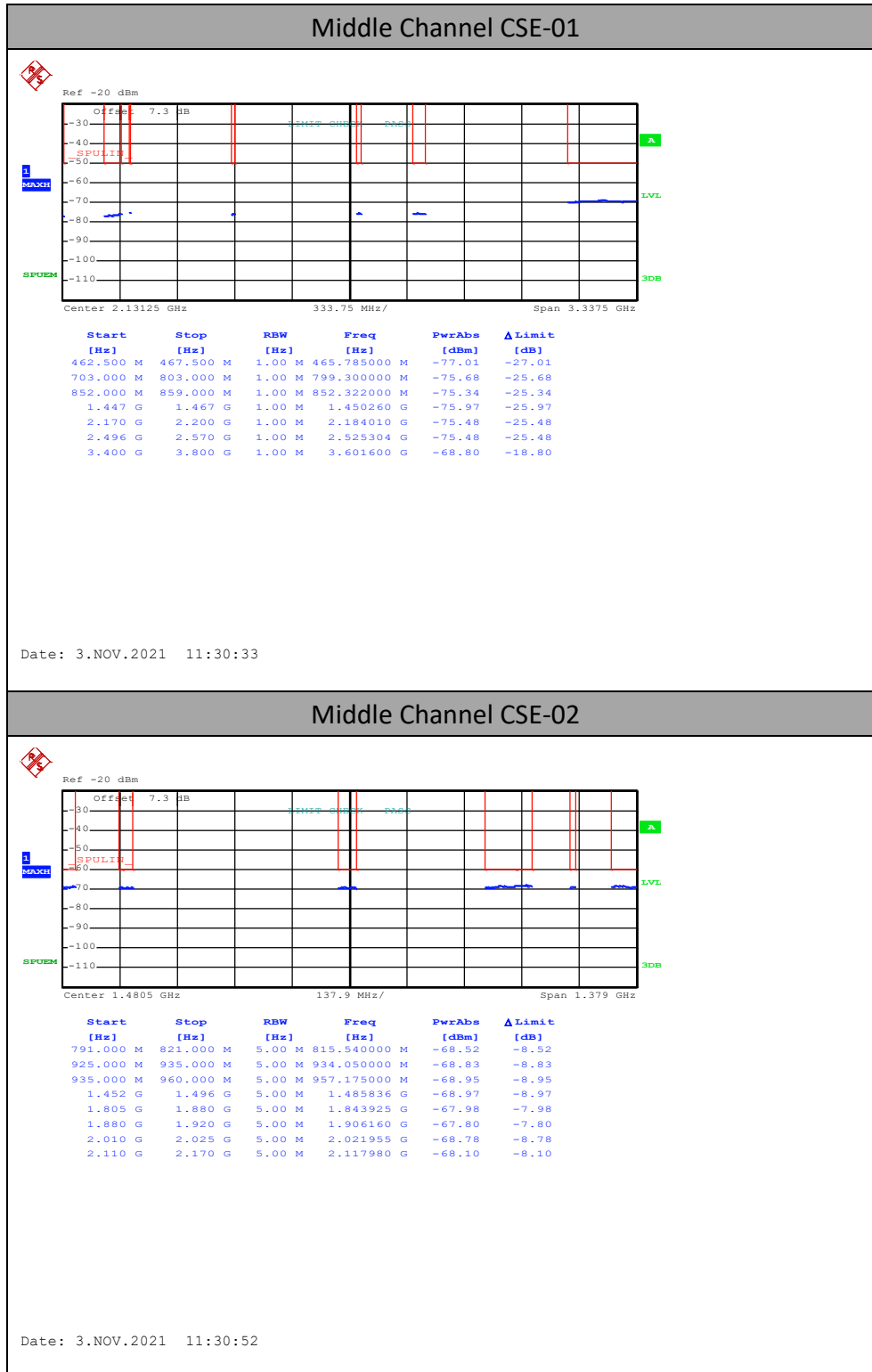


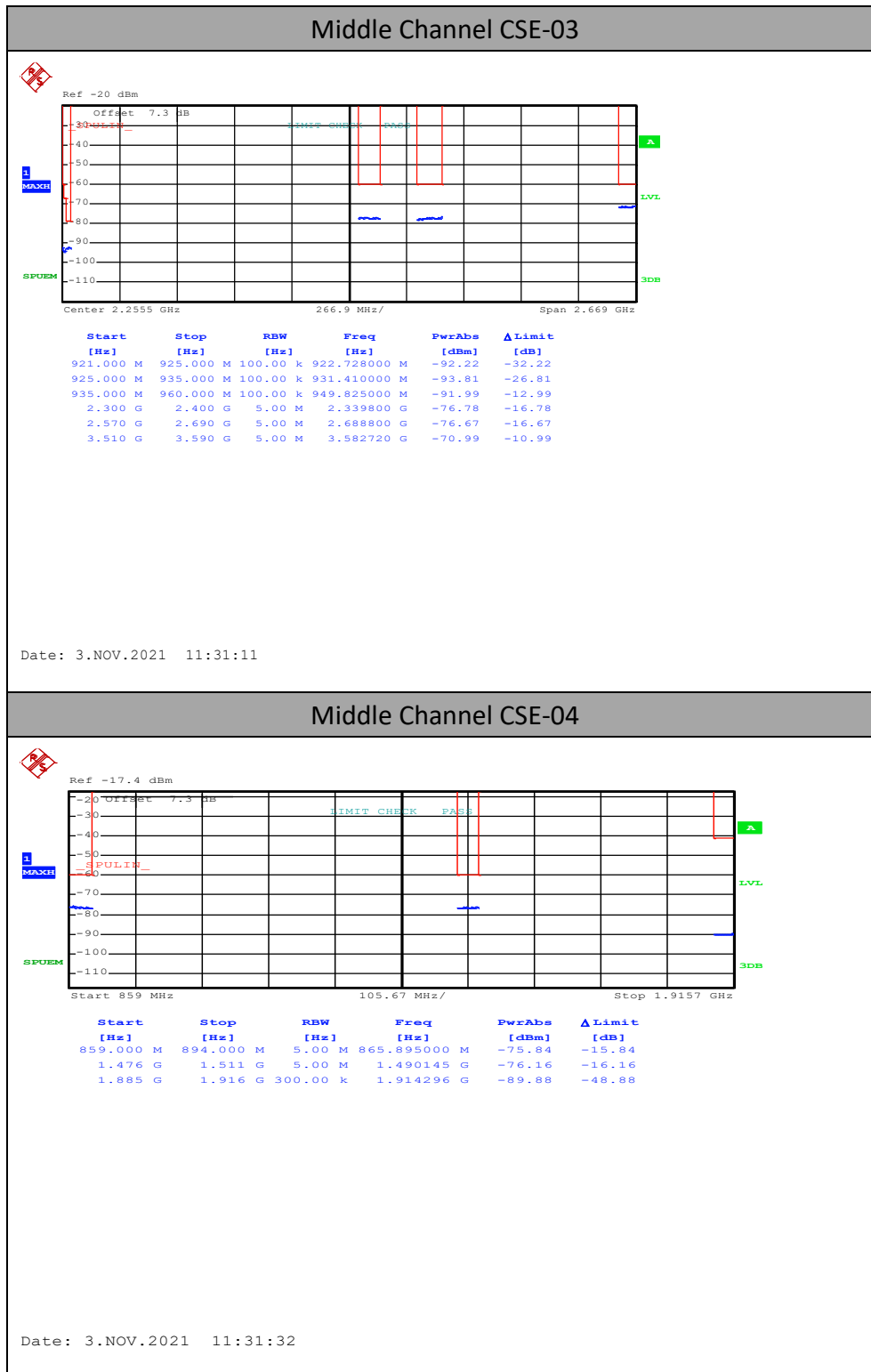
Date: 3.NOV.2021 11:36:20

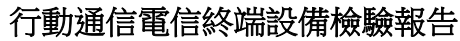
Low Channel CSE-03



Date: 3.NOV.2021 11:36:40







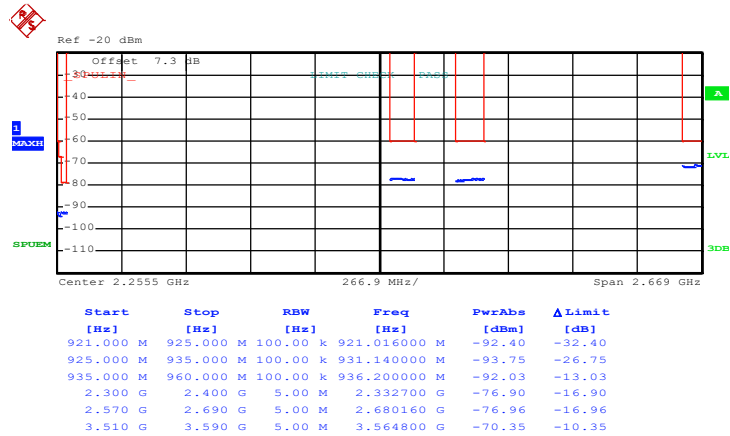
High Channel CSE-01



High Channel CSE-02

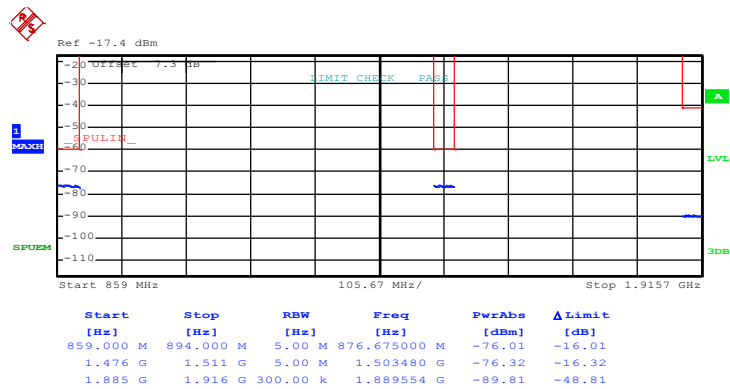


High Channel CSE-03



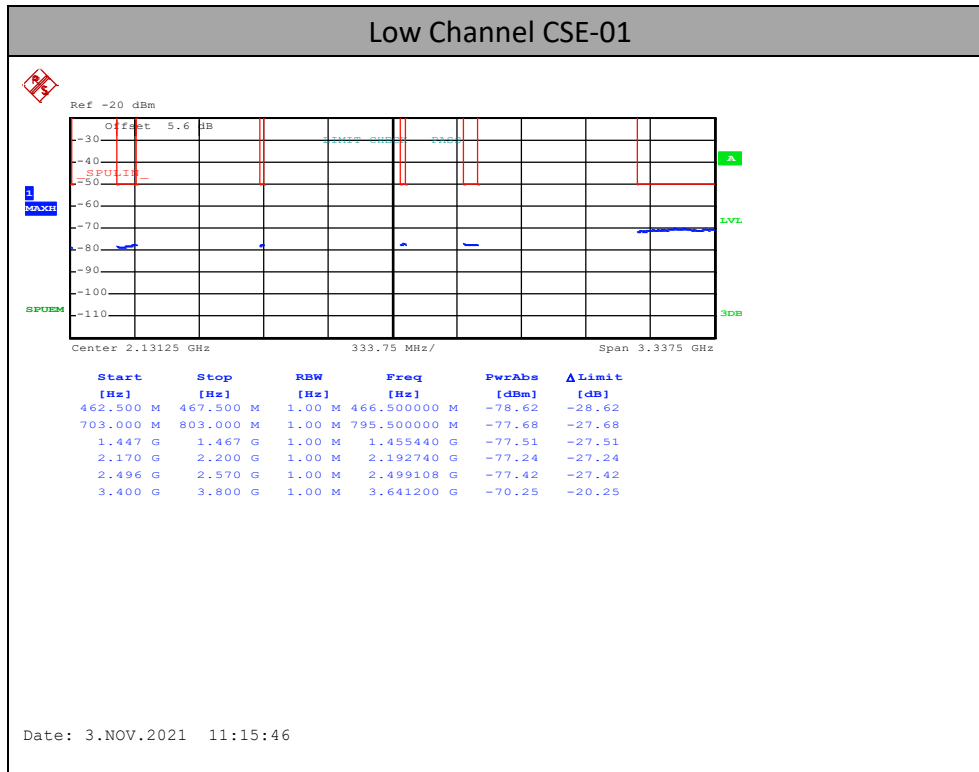
Date: 3.NOV.2021 11:23:58

High Channel CSE-04

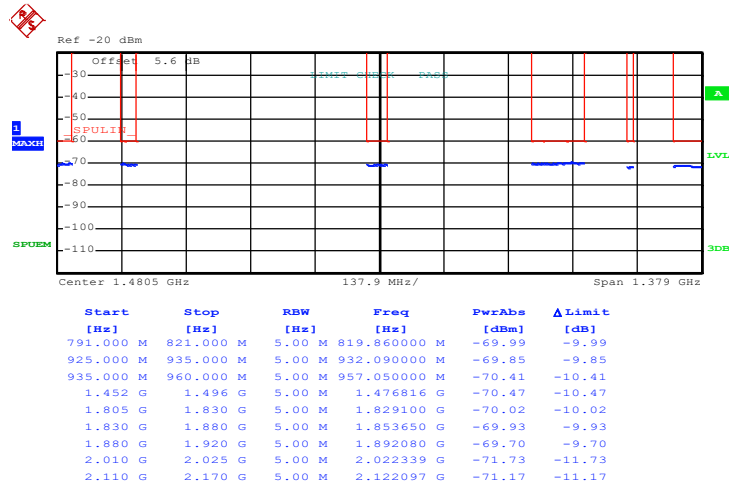


Date: 3.NOV.2021 11:24:19

W-CDMA Band VIII

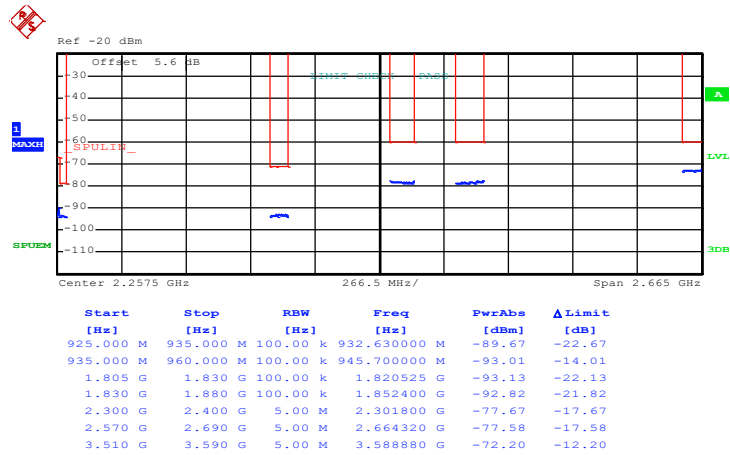


Low Channel CSE-02



Date: 3.NOV.2021 11:16:05

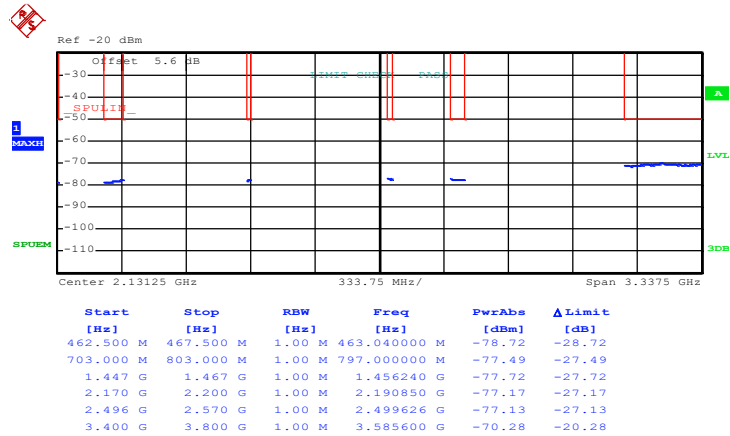
Low Channel CSE-03



Date: 3.NOV.2021 11:16:24

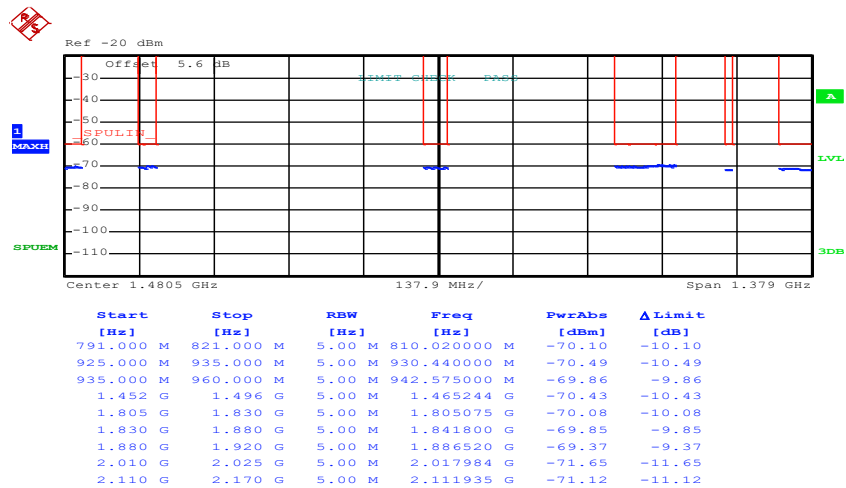


Middle Channel CSE-01

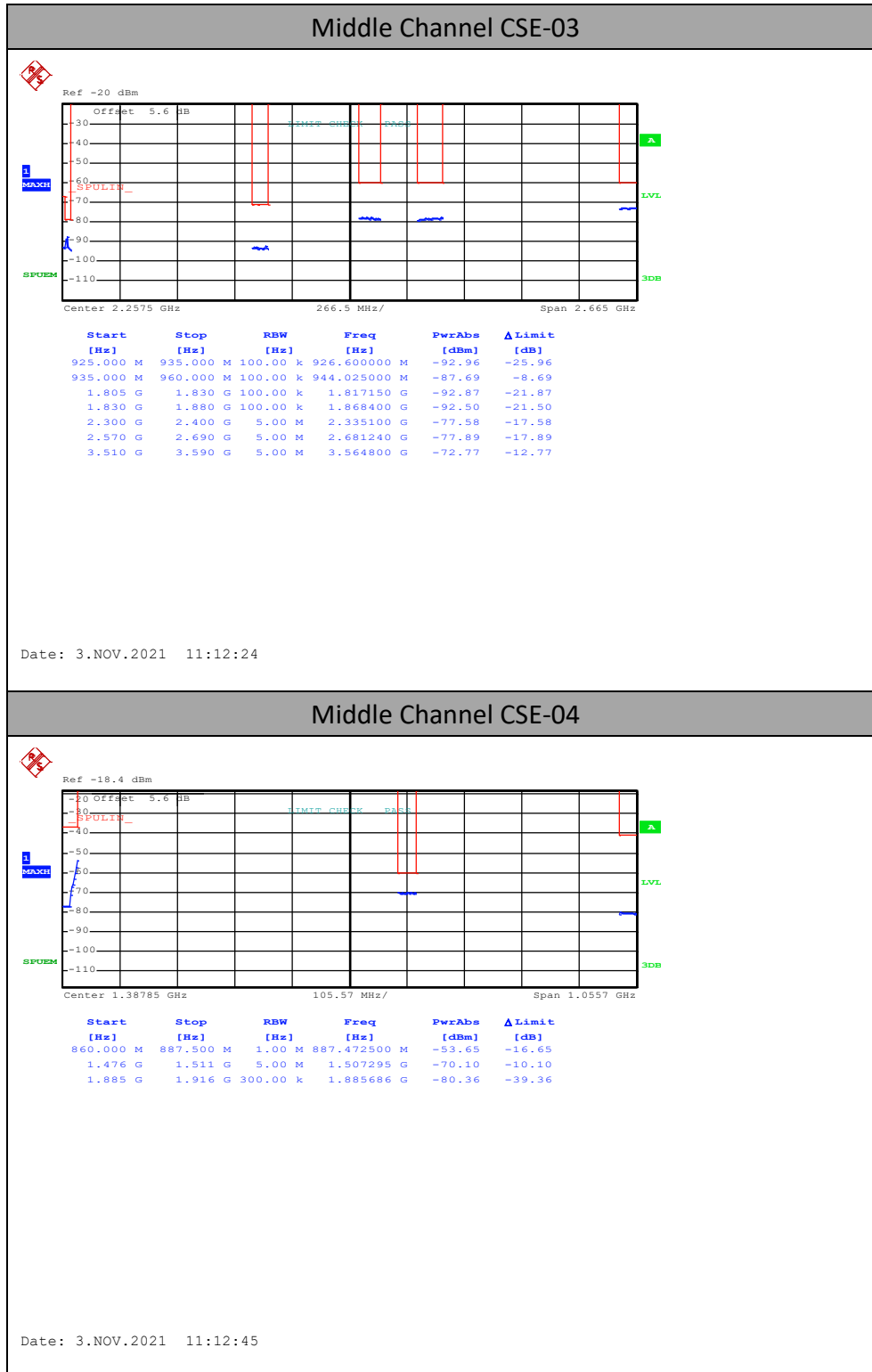


Date: 3.NOV.2021 11:11:45

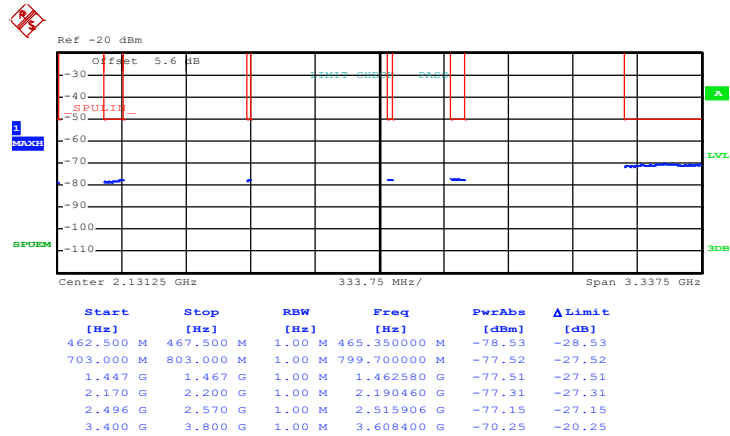
Middle Channel CSE-02



Date: 3.NOV.2021 11:12:04

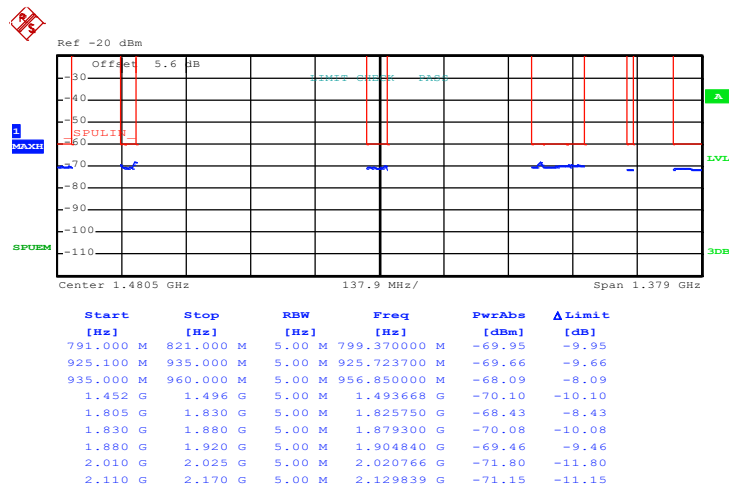


High Channel CSE-01



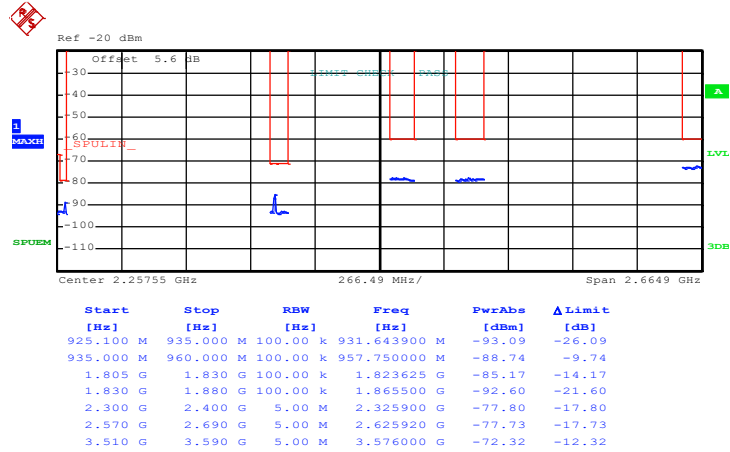
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High Channel CSE-02



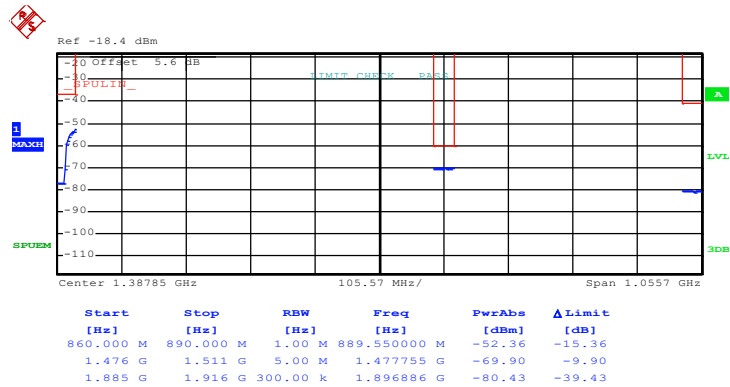
Date: 3.NOV.2021 11:07:09

High Channel CSE-03



Date: 3.NOV.2021 11:07:44

High Channel CSE-04



Date: 3.NOV.2021 11:06:49

附錄 C. 測試架設圖

Conducted



——完——