行動通信電信終端設備檢驗報告

產品名稱 ：**LTE Cat4 M.2 Module**

廠　　牌 ：**Quectel**

型　　號 ：**EM05-G**

申請廠商 ：上海移遠通信技術股份有限公司
上海市徐匯區虹漕路 **25-1** 號二層 **193** 室

製造廠商 ：上海移遠通信技術股份有限公司
上海市徐匯區虹漕路 **25-1** 號二層 **193** 室

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民國 **110** 年 **5** 月 **24** 日
- 於民國 **110** 年 **5** 月 **26** 日開始測試，民國 **110** 年 **6** 月 **11** 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

目 錄

報 告 履 歷 **3**
測試結果總表 **4**
1. 一般資料 **5**
1.1 測試方法及依據 5
1.2 待測物特性與規格 5
1.3 測試環境 6
1.4 測試頻道 6
1.5 量測系統之描述 6
2. 一般特性檢驗 **7**
3. 檢驗接續圖 **8**
4. 檢驗使用儀器 **9**
5. 量測設定及限制值 **10**
5.1 工作頻帶、收發頻率間隔、標稱頻道間隔限制值 10
5.2 最大發射輸出功率限制值 10
5.3 發射頻譜波罩限制值 10
5.4 混附波輻射設定及限制值 11
5.5 電壓條件 13
5.6 電波功率密度 14
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
附錄 B. 混附波輻射
附錄 C. 測試架設圖

報 告 履 歷

報告編號	報告版本	說明	報告發行日期
TM151006	01	初版	2021 年 6 月 25 日
TM151006	02	Revise antenna type	2021 年 7 月 1 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: 24.51 dBm Band 8: 24.62 dBm
附錄 A	6.4.3	頻率穩定度	符合	Band 1: 0.0149 PPM Band 8: 0.0178 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: -53.78 dBm Band 8: -56.34 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	5.2	電壓條件	符合	-
附錄 A	6.6.2	電波功率密度	符合	-
附錄 B	6.4.8	混附波輻射	符合	-
-	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: 鄒雨儒

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

Product Specification subjective to this standard	
IMEI Code	869283050008962
Tx Frequency	WCDMA Band I: 1920 MHz ~ 1980 MHz WCDMA Band VIII: 885 MHz ~ 915 MHz
Rx Frequency	WCDMA Band I: 2110 MHz ~ 2170 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**	Shanghai Saintenna Electronic Technology Co.,Ltd.	**Peak Gain**	WCDMA Band I: 1.53 dBi WCDMA Band VIII: 2.98 dBi
	Model Name	SAA30968A	**Type**	Dipole Antenna

Remark:

1. The detail internal, external and transmit antenna photo please refer to Sporton report no.: EP151006.
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

Test Item: Conducted	
Test Engineer	季怡然
Ambient Temperature	23~24°C
Relative Humidity	50~51%

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 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	Quectel	Q1-A4792	N/A	N/A	N/A

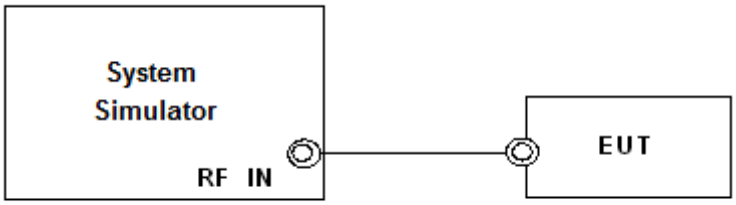
註: 申請人確保輔助設備不隨市場上的產品提供，輔助設備由申請者提供用於測試。

2. 一般特性檢驗

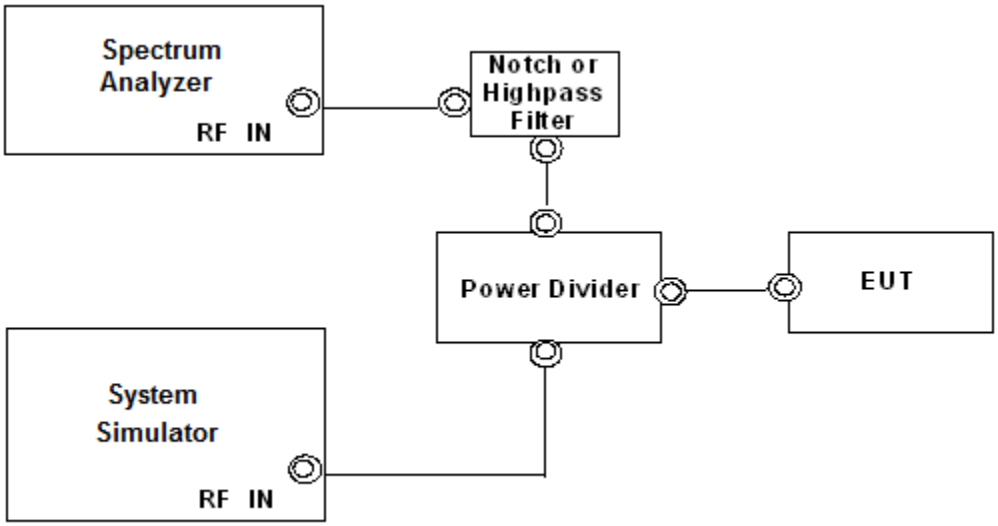
項次	檢驗項目	合格標準
1	工作頻帶	限制值參照5.1
	收發頻率間隔	
	標稱頻道間隔	
2	最大發射輸出功率	限制值參照5.2
3	頻率穩定度	±0.1百萬分之一(PPM)之內
4	功率控制狀態下之最小平均輸出功率	≦-50dBm (in one time slot)
5	佔用頻道頻寬	≦5 MHz
6	發射頻譜波罩	限制值參照5.3
7	相鄰頻道洩漏功率比	相鄰頻道偏移±5 MHz 相鄰頻道洩漏功率限制33 dB 相鄰頻道偏移±10 MHz 相鄰頻道洩漏功率限制43 dB
8	電壓條件	參照5.5
9	電波功率密度	限制值參照5.6
10	混附波輻射	限制值參照5.4

3. 檢驗接續圖

檢驗項目：**1~9**



檢驗項目：**10**



4. 檢驗使用儀器

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 03, 2020	May 26, 2021~ Jun. 11, 2021	Sep. 02, 2021	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~4A	Oct. 05, 2020	May 26, 2021~ Jun. 11, 2021	Oct. 04, 2021	Conducted (TH03-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Sep. 07, 2020	May 26, 2021~ Jun. 11, 2021	Sep. 06, 2021	Conducted (TH03-HY)
Power Divider	Warison	WCOU-0.4-26. 5S-20	#A	N/A	Nov. 02, 2020	May 26, 2021~ Jun. 11, 2021	Nov. 01, 2021	Conducted (TH03-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 26, 2021~ Jun. 11, 2021	N/A	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 14, 2020	May 26, 2021~ Jun. 11, 2021	Sep. 13, 2021	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 8
工作頻帶 (frequency bands)	Tx：1920 -1980MHz Rx：2110 -2170MHz	Tx：885 -915MHz Rx：930 -960MHz
收發頻率間隔 (TX-RX frequency separation)	190 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 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 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 kHz ≦ f < 150 kHz	1 kHz	-36 dBm
150 kHz ≦ f < 30 MHz	10 kHz	-36 dBm
30 MHz ≦ f < 1000 MHz	100 kHz	-36 dBm
1GHz ≦ f < 12.75 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 MHz ≦ f ≦ 467.5 MHz	1 MHz	-50 dBm
703 MHz ≦ f ≦ 803 MHz	1 MHz	-50 dBm
791 MHz ≦ f ≦ 821 MHz	3.84 MHz	-60 dBm
852 MHz ≦ f ≦ 859 MHz	1 MHz	-50 dBm
859 MHz ≦ f ≦ 894 MHz	3.84 MHz	-60 dBm
921 MHz ≦ f < 925 MHz	100 kHz	-60 dBm
925 MHz ≦ f ≦ 935 MHz	100 kHz 3.84 MHz	-67 dBm -60 dBm
935 MHz < f ≦ 960 MHz	100 kHz 3.84 MHz	-79 dBm -60 dBm
1447 MHz ≦ f ≦ 1467 MHz	1 MHz	-50 dBm
1452 MHz ≦ f ≦ 1510.9 MHz	3.84 MHz	-60 dBm
1805 MHz ≦ f ≦ 1880 MHz	100 kHz 3.84 MHz	-71 dBm -60 dBm
1839.9 MHz ≦ f ≦ 1879.9 MHz	3.84 MHz	-60 dBm
1884.5 MHz < f < 1915.7 MHz	300 kHz	-41 dBm
2010 MHz < f < 2025 MHz	3.84 MHz	-60 dBm
2110 MHz ≦ f ≦ 2170 MHz	3.84 MHz	-60 dBm
2170 MHz ≦ f ≦ 2200 MHz	1 MHz	-50 dBm
2300 MHz ≦ f ≦ 2400 MHz	3.84 MHz	-60 dBm
2496 MHz ≦ f ≦ 2570 MHz	1 MHz	-50 dBm
2570 MHz ≦ f ≦ 2690 MHz	3.84 MHz	-60 dBm
3510 MHz ≦ f ≦ 3590 MHz	3.84 MHz	-60 dBm
3400 MHz ≦ f ≦ 3800 MHz	1 MHz	-50 dBm

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 MHz ≦ f ≦ 467.5 MHz	1 MHz	-50 dBm
703 MHz ≦ f ≦ 803 MHz	1 MHz	-50 dBm
791 MHz ≦ f ≦ 821 MHz	3.84 MHz	-60 dBm
860 MHz ≦ f ≦ 890 MHz	1 MHz	-37 dBm (註)
925 MHz ≦ f ≦ 935 MHz	100 kHz 3.84 MHz	-67 dBm -60 dBm
935 MHz < f ≦ 960 MHz	100 kHz 3.84 MHz	-79 dBm -60 dBm
1447 MHz ≦ f ≦ 1467 MHz	1 MHz	-50 dBm
1452 MHz ≦ f ≦ 1496 MHz	3.84 MHz	-60 dBm
1475.9 MHz ≦ f ≦ 1510.9 MHz	3.84 MHz	-60 dBm (註)
1805 MHz < f ≦ 1830 MHz	100 kHz 3.84 MHz	-71 dBm -60 dBm
1830 MHz < f ≦ 1880 MHz	100 kHz 3.84 MHz	-71 dBm -60 dBm
1880MHz ≦ f ≦ 1920 MHz	3.84 MHz	-60 dBm
1884.5 MHz ≦ f ≦ 1915.7 MHz	300 kHz	-41 dBm (註)
2010 MHz ≦ f ≦ 2025 MHz	3.84 MHz	-60 dBm
2110 MHz ≦ f ≦ 2170 MHz	3.84 MHz	-60 dBm
2170 MHz ≦ f ≦ 2200 MHz	1 MHz	-50 dBm
2300 MHz < f < 2400 MHz	3.84 MHz	-60 dBm
2496 MHz ≦ f ≦ 2570 MHz	1 MHz	-50 dBm
2570 MHz ≦ f ≦ 2640 MHz	3.84 MHz	-60 dBm
2640 MHz < f ≦ 2690 MHz	3.84 MHz	-60 dBm
3510 MHz ≦ f ≦ 3590 MHz	3.84 MHz	-60 dBm
3400 MHz ≦ f ≦ 3800 MHz	1 MHz	-50 dBm

註：僅適用於 900 MHz 至 915 MHz 內之傳輸。

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 × nominal	1.1 × nominal	nominal
調節式鉛酸電池	0.9 × nominal	1.3 × nominal	1.1 × 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 × nominal 0.95 × nominal 0.90 × nominal	 nominal 1.1 × nominal 1.1 × nominal	 nominal 1.1 × nominal nominal

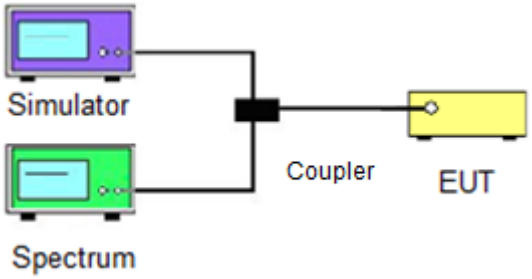
電源電壓低於上表之低極端電壓或高於上表之高極端電壓，終端設備若可通電開機時，不得無效使用第3點規定之頻段。

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，以客戶宣告最低電壓3.135Vdc往下調整電壓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 Setup



5.5.4 Test Result of Voltage Conditions

關機電壓數值 Please refer to 附錄 A.

測試結果：符合

5.6 電波功率密度

5.6.1 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

5.6.2 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

5.6.3 Test Result of Power Density

Please refer to 附錄 A.

附錄A. 測試結果 - 傳導發射功率/電波功率密度/頻率穩定度

測試環境	溫度	°C	23~24
	濕度	%	50~51
測試工程師		-----	Oscar Chi
天線之方向增益		dBi	1.53
標準供應電壓		VDC	3.30
關機電壓		VDC	2.60

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	24.41	24.40	24.51	24 +1.7/-3.7	符合
電波功率密度	mW/cm^2	0.078114	0.077935	0.079934	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
常態電壓	1.00 * Nominal
低極端電壓	0.90 * Nominal
高極端電壓	1.10 * Nominal

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	0.0072	0.0087	0.0103	0.0108	≦ 0.1	符合
高溫高壓	55 ℃ + 4.4 V	ppm	0.0118	0.0133	0.0138	0.0144	≦ 0.1	符合
高溫低壓	55 ℃ + 3.135 V	ppm	0.0113	0.0118	0.0138	0.0149	≦ 0.1	符合
低溫高壓	-10 ℃ + 4.4 V	ppm	0.0031	0.0046	0.0056	0.0082	≦ 0.1	符合
低溫低壓	-10 ℃ + 3.135 V	ppm	0.0036	0.0041	0.0067	0.0077	≦ 0.1	符合

測試環境	溫度	°C	23~24
	濕度	%	50~51
測試工程師		-----	Oscar Chi
天線之方向增益		dBi	2.98
標準供應電壓		VDC	3.30
關機電壓		VDC	2.60

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 VIII

傳導發射功率	單位	低頻道	中頻道	高頻道	限制	結果
	dBm	24.36	24.38	24.62	24 +1.7/-3.7	符合
電波功率密度	mW/cm^2	0.10783	0.10833	0.11448	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
常態電壓	1.00 * Nominal
低極端電壓	0.90 * Nominal
高極端電壓	1.10 * Nominal

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	0.0078	0.0100	0.0100	0.0144	≦ 0.1	符合
高溫高壓	55 ℃ + 4.4 V	ppm	0.0089	0.0133	0.0167	0.0178	≦ 0.1	符合
高溫低壓	55 ℃ + 3.135 V	ppm	0.0056	0.0100	0.0122	0.0144	≦ 0.1	符合
低溫高壓	-10 ℃ + 4.4 V	ppm	0.0044	0.0078	0.0100	0.0156	≦ 0.1	符合
低溫低壓	-10 ℃ + 3.135 V	ppm	0.0067	0.0100	0.0122	0.0133	≦ 0.1	符合

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

<WCDMA Band 1>

Measurement Report

ROHDE&SCHWARZ

Operator: *noname* *2021年5月26日 上午 10:59:16*

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
Operating Band I, Channel DL/UL 10700/9750, Attenuation (In/Out) 7.1 / 7.1 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: 86928305-000896-2				
Call to Mobile:			passed	✓
DL Channel 10562, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10, UE Power Class 3				
Maximum RMS Power:	21.00 dBm	25.00 dBm	24.41 dBm	✓
DL Channel 10562, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10				
Minimum RMS Power:		-50.00 dBm	-54.09 dBm	✓
DL Channel 10562, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10, RF Target Level 0.0 dBm				
WCDMA Demodulation (Maximum Values)				
Carrier Frequency Error:	-195.00 Hz	195.00 Hz	2.32 Hz	✓
Magnitude Error (RMS):		17.50 %	1.54 %	✓
Magnitude Error (Peak):	-50.00 %	50.00 %	13.50 %	✓
DL Channel 10562, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10				
ACLR FFT/OBW, 640 Chips (Average Values)				
ACLR Channel -2 (RMS):		-43.00 dBc	-57.08 dBc	✓
ACLR Channel -1 (RMS):		-33.00 dBc	-47.68 dBc	✓
ACLR Channel +1 (RMS):		-33.00 dBc	-44.46 dBc	✓
ACLR Channel +2 (RMS):		-43.00 dBc	-55.83 dBc	✓
Occupied Bandwidth:		5.00 MHz	4.14 MHz	✓
DL Channel 10562, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10, 640 Chips				
Emission Mask:			passed	✓
Margin fc-8.5 ... fc-12.5 MHz	0.00 dB		-13.01 dB	
Margin fc-7.5 ... fc-8.5 MHz	0.00 dB		-13.00 dB	
Margin fc-4.0 ... fc-7.5 MHz	0.00 dB		-15.99 dB	
Margin fc-2.5 ... fc-3.5 MHz	0.00 dB		-14.62 dB	
Margin fc+2.5 ... fc+3.5 MHz	0.00 dB		-10.02 dB	
Margin fc+4.0 ... fc+7.5 MHz	0.00 dB		-12.71 dB	
Margin fc+7.5 ... fc+8.5 MHz	0.00 dB		-11.72 dB	
Margin fc+8.5 ... fc+12.5 MHz	0.00 dB		-11.15 dB	
DL Channel 10700, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10, UE Power Class 3				
Maximum RMS Power:	21.00 dBm	25.00 dBm	24.40 dBm	✓
DL Channel 10700, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10				
Minimum RMS Power:		-50.00 dBm	-53.78 dBm	✓

Measurement Report

ROHDE&SCHWARZ

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
DL Channel 10700, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10, RF Target Level 0.0 dBm				
WCDMA Demodulation (Maximum Values)				
Carrier Frequency Error:	**-195.00 Hz**	**195.00 Hz**	**0.96 Hz**	✓
Magnitude Error (RMS):		**17.50 %**	**1.71 %**	✓
Magnitude Error (Peak):	**-50.00 %**	**50.00 %**	**16.71 %**	✓
DL Channel 10700, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10				
ACLR FFT/OBW, 640 Chips (Average Values)				
ACLR Channel -2 (RMS):		**-43.00 dBc**	**-56.82 dBc**	✓
ACLR Channel -1 (RMS):		**-33.00 dBc**	**-48.22 dBc**	✓
ACLR Channel +1 (RMS):		**-33.00 dBc**	**-44.82 dBc**	✓
ACLR Channel +2 (RMS):		**-43.00 dBc**	**-56.44 dBc**	✓
Occupied Bandwidth:		**5.00 MHz**	**4.14 MHz**	✓
DL Channel 10700, Attenuation (In/Out) 7.1 / 7.1 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**		**-13.05 dB**	
Margin fc-4.0 ... fc-7.5 MHz	**0.00 dB**		**-16.50 dB**	
Margin fc-2.5 ... fc-3.5 MHz	**0.00 dB**		**-14.53 dB**	
Margin fc+2.5 ... fc+3.5 MHz	**0.00 dB**		**-10.14 dB**	
Margin fc+4.0 ... fc+7.5 MHz	**0.00 dB**		**-13.10 dB**	
Margin fc+7.5 ... fc+8.5 MHz	**0.00 dB**		**-12.32 dB**	
Margin fc+8.5 ... fc+12.5 MHz	**0.00 dB**		**-12.08 dB**	
DL Channel 10838, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10, UE Power Class 3				
Maximum RMS Power:	**21.00 dBm**	**25.00 dBm**	**24.51 dBm**	✓
DL Channel 10838, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10				
Minimum RMS Power:		**-50.00 dBm**	**-53.93 dBm**	✓
DL Channel 10838, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10, RF Target Level 0.0 dBm				
WCDMA Demodulation (Maximum Values)				
Carrier Frequency Error:	**-195.00 Hz**	**195.00 Hz**	**-3.59 Hz**	✓
Magnitude Error (RMS):		**17.50 %**	**1.64 %**	✓
Magnitude Error (Peak):	**-50.00 %**	**50.00 %**	**15.05 %**	✓
DL Channel 10838, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10				
ACLR FFT/OBW, 640 Chips (Average Values)				
ACLR Channel -2 (RMS):		**-43.00 dBc**	**-56.90 dBc**	✓
ACLR Channel -1 (RMS):		**-33.00 dBc**	**-45.16 dBc**	✓
ACLR Channel +1 (RMS):		**-33.00 dBc**	**-42.11 dBc**	✓
ACLR Channel +2 (RMS):		**-43.00 dBc**	**-56.50 dBc**	✓
Occupied Bandwidth:		**5.00 MHz**	**4.15 MHz**	✓

Measurement Report

ROHDE&SCHWARZ

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
DL Channel 10838, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10, 640 Chips				
Emission Mask:			passed	✓
Margin fc-8.5 ... fc-12.5 MHz	**0.00 dB**		-12.52 dB	
Margin fc-7.5 ... fc-8.5 MHz	**0.00 dB**		-12.50 dB	
Margin fc-4.0 ... fc-7.5 MHz	**0.00 dB**		-12.47 dB	
Margin fc-2.5 ... fc-3.5 MHz	**0.00 dB**		-12.40 dB	
Margin fc+2.5 ... fc+3.5 MHz	**0.00 dB**		-8.36 dB	
Margin fc+4.0 ... fc+7.5 MHz	**0.00 dB**		-9.92 dB	
Margin fc+7.5 ... fc+8.5 MHz	**0.00 dB**		-11.95 dB	
Margin fc+8.5 ... fc+12.5 MHz	**0.00 dB**		-11.98 dB	
Call Release Test:			passed	✓

MS Serial Number: 86928305-000896-2

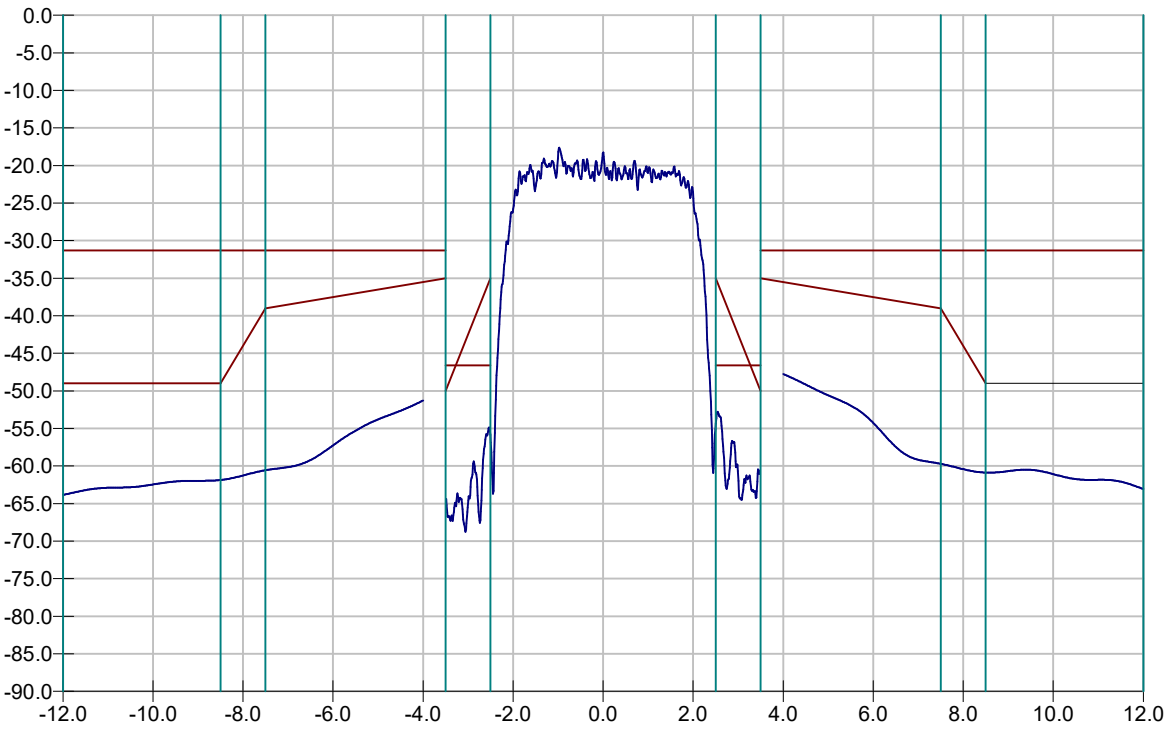
Result:

35 Tests passed / 0 Tests failed

(Execution Time: 54.6 Seconds)

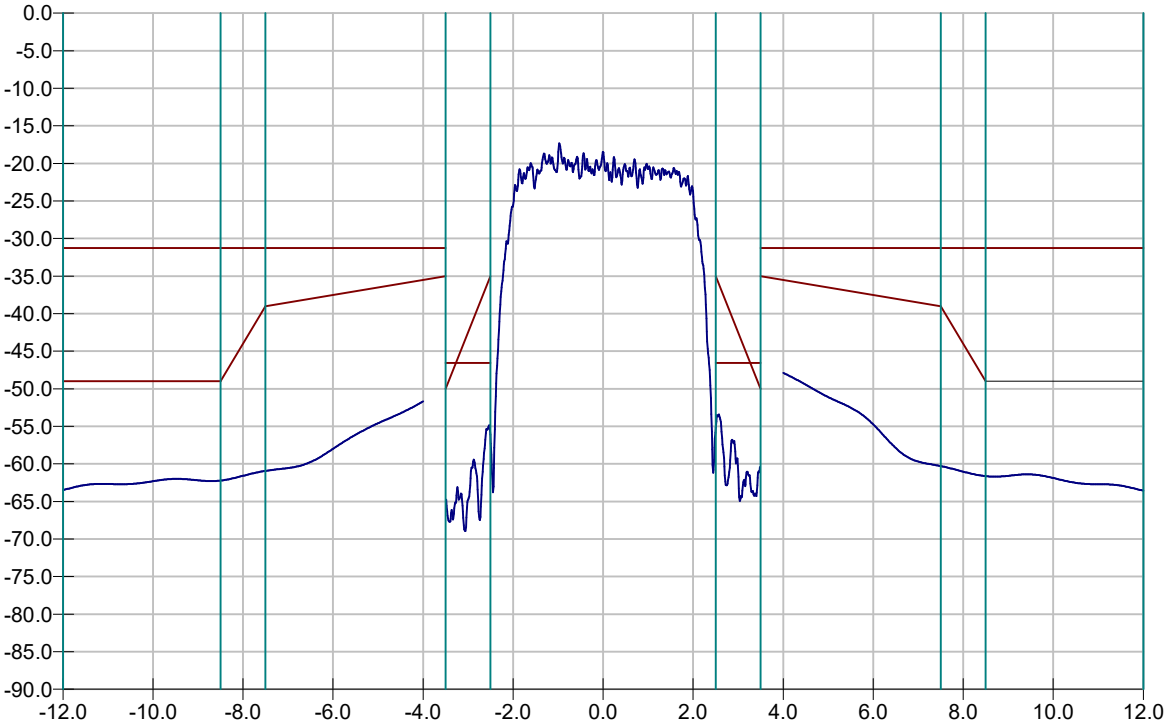
Annex: Emission Mask Graph

DL Channel 10562, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10, 640 Chips



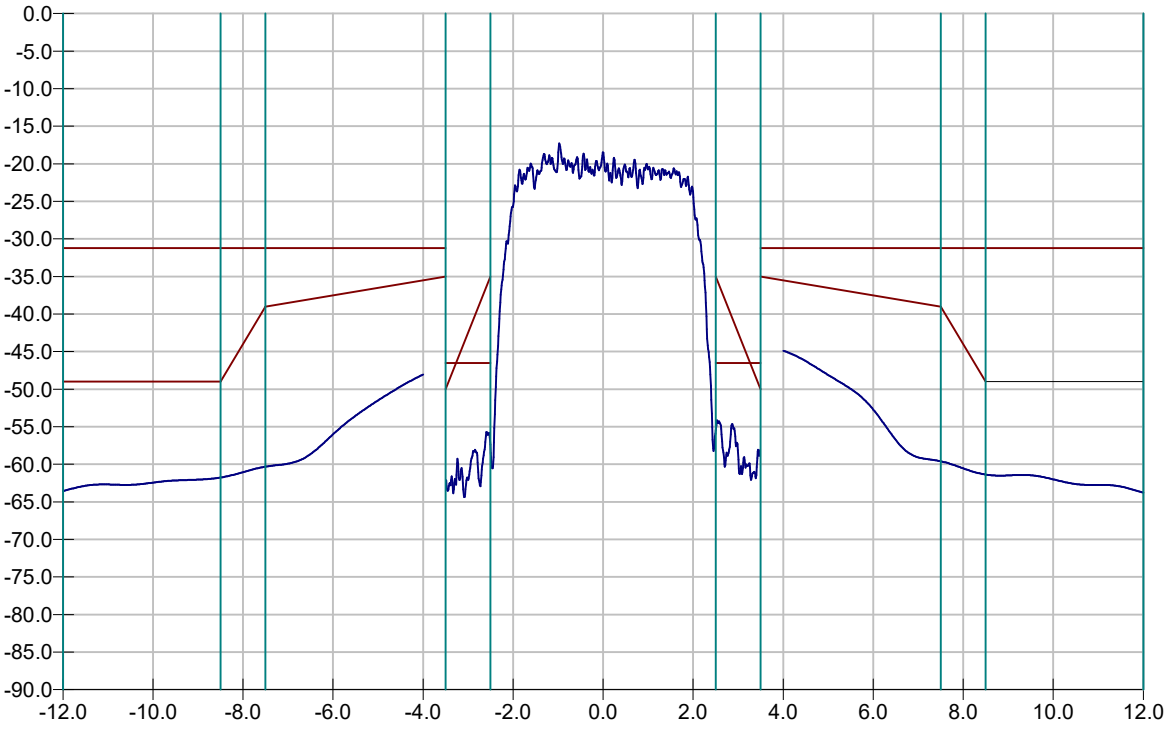
Annex: Emission Mask Graph

DL Channel 10700, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10, 640 Chips



Annex: Emission Mask Graph

DL Channel 10838, Attenuation (In/Out) 7.1 / 7.1 dB, Averaging: 10, 640 Chips



<WCDMA Band 8>

Measurement Report

ROHDE&SCHWARZ

Operator: *noname* *2021年5月26日 上午 10:44:47*

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
Operating Band VIII, Channel DL/UL 3025/2800, Attenuation (In/Out) 6.1 / 6.1 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: 86928305-000896-2				
Call to Mobile:			passed	✓
DL Channel 2962, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10, UE Power Class 3				
Maximum RMS Power:	21.00 dBm	25.00 dBm	24.36 dBm	✓
DL Channel 2962, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10				
Minimum RMS Power:		-50.00 dBm	-56.34 dBm	✓
DL Channel 2962, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10, RF Target Level 0.0 dBm				
WCDMA Demodulation (Maximum Values)				
Carrier Frequency Error:	-195.00 Hz	195.00 Hz	-0.55 Hz	✓
Magnitude Error (RMS):		17.50 %	1.38 %	✓
Magnitude Error (Peak):	-50.00 %	50.00 %	13.78 %	✓
DL Channel 2962, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10				
ACLR FFT/OBW, 640 Chips (Average Values)				
ACLR Channel -2 (RMS):		-43.00 dBc	-59.46 dBc	✓
ACLR Channel -1 (RMS):		-33.00 dBc	-38.22 dBc	✓
ACLR Channel +1 (RMS):		-33.00 dBc	-39.62 dBc	✓
ACLR Channel +2 (RMS):		-43.00 dBc	-58.93 dBc	✓
Occupied Bandwidth:		5.00 MHz	4.15 MHz	✓
DL Channel 2962, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10, 640 Chips				
Emission Mask:			passed	✓
Margin fc-8.5 ... fc-12.5 MHz	0.00 dB		-13.71 dB	
Margin fc-7.5 ... fc-8.5 MHz	0.00 dB		-13.66 dB	
Margin fc-4.0 ... fc-7.5 MHz	0.00 dB		-5.39 dB	
Margin fc-2.5 ... fc-3.5 MHz	0.00 dB		-4.79 dB	
Margin fc+2.5 ... fc+3.5 MHz	0.00 dB		-5.57 dB	
Margin fc+4.0 ... fc+7.5 MHz	0.00 dB		-7.02 dB	
Margin fc+7.5 ... fc+8.5 MHz	0.00 dB		-13.37 dB	
Margin fc+8.5 ... fc+12.5 MHz	0.00 dB		-13.45 dB	
DL Channel 3025, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10, UE Power Class 3				
Maximum RMS Power:	21.00 dBm	25.00 dBm	24.38 dBm	✓
DL Channel 3025, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10				
Minimum RMS Power:		-50.00 dBm	-56.44 dBm	✓

Measurement Report

ROHDE&SCHWARZ

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
DL Channel 3025, Attenuation (In/Out) 6.1 / 6.1 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 %**	**1.52 %**	✓
Magnitude Error (Peak):	**-50.00 %**	**50.00 %**	**14.52 %**	✓
DL Channel 3025, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10				
ACLR FFT/OBW, 640 Chips (Average Values)				
ACLR Channel -2 (RMS):		**-43.00 dBc**	**-59.22 dBc**	✓
ACLR Channel -1 (RMS):		**-33.00 dBc**	**-40.09 dBc**	✓
ACLR Channel +1 (RMS):		**-33.00 dBc**	**-42.01 dBc**	✓
ACLR Channel +2 (RMS):		**-43.00 dBc**	**-59.16 dBc**	✓
Occupied Bandwidth:		**5.00 MHz**	**4.15 MHz**	✓
DL Channel 3025, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10, 640 Chips				
Emission Mask:			**passed**	✓
Margin fc-8.5 ... fc-12.5 MHz	**0.00 dB**		**-14.46 dB**	
Margin fc-7.5 ... fc-8.5 MHz	**0.00 dB**		**-14.41 dB**	
Margin fc-4.0 ... fc-7.5 MHz	**0.00 dB**		**-7.77 dB**	
Margin fc-2.5 ... fc-3.5 MHz	**0.00 dB**		**-7.28 dB**	
Margin fc+2.5 ... fc+3.5 MHz	**0.00 dB**		**-9.51 dB**	
Margin fc+4.0 ... fc+7.5 MHz	**0.00 dB**		**-9.65 dB**	
Margin fc+7.5 ... fc+8.5 MHz	**0.00 dB**		**-14.49 dB**	
Margin fc+8.5 ... fc+12.5 MHz	**0.00 dB**		**-14.53 dB**	
DL Channel 3088, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10, UE Power Class 3				
Maximum RMS Power:	**21.00 dBm**	**25.00 dBm**	**24.62 dBm**	✓
DL Channel 3088, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10				
Minimum RMS Power:		**-50.00 dBm**	**-56.60 dBm**	✓
DL Channel 3088, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10, RF Target Level 0.0 dBm				
WCDMA Demodulation (Maximum Values)				
Carrier Frequency Error:	**-195.00 Hz**	**195.00 Hz**	**-0.73 Hz**	✓
Magnitude Error (RMS):		**17.50 %**	**1.77 %**	✓
Magnitude Error (Peak):	**-50.00 %**	**50.00 %**	**15.33 %**	✓
DL Channel 3088, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10				
ACLR FFT/OBW, 640 Chips (Average Values)				
ACLR Channel -2 (RMS):		**-43.00 dBc**	**-59.66 dBc**	✓
ACLR Channel -1 (RMS):		**-33.00 dBc**	**-41.05 dBc**	✓
ACLR Channel +1 (RMS):		**-33.00 dBc**	**-45.09 dBc**	✓
ACLR Channel +2 (RMS):		**-43.00 dBc**	**-61.12 dBc**	✓
Occupied Bandwidth:		**5.00 MHz**	**4.13 MHz**	✓

Measurement Report

ROHDE&SCHWARZ

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
DL Channel 3088, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10, 640 Chips				
Emission Mask:			passed	✓
Margin fc-8.5 ... fc-12.5 MHz	**0.00 dB**		-15.06 dB	
Margin fc-7.5 ... fc-8.5 MHz	**0.00 dB**		-15.03 dB	
Margin fc-4.0 ... fc-7.5 MHz	**0.00 dB**		-8.82 dB	
Margin fc-2.5 ... fc-3.5 MHz	**0.00 dB**		-9.31 dB	
Margin fc+2.5 ... fc+3.5 MHz	**0.00 dB**		-10.19 dB	
Margin fc+4.0 ... fc+7.5 MHz	**0.00 dB**		-12.31 dB	
Margin fc+7.5 ... fc+8.5 MHz	**0.00 dB**		-17.64 dB	
Margin fc+8.5 ... fc+12.5 MHz	**0.00 dB**		-17.38 dB	
Call Release Test:			passed	✓

MS Serial Number: 86928305-000896-2

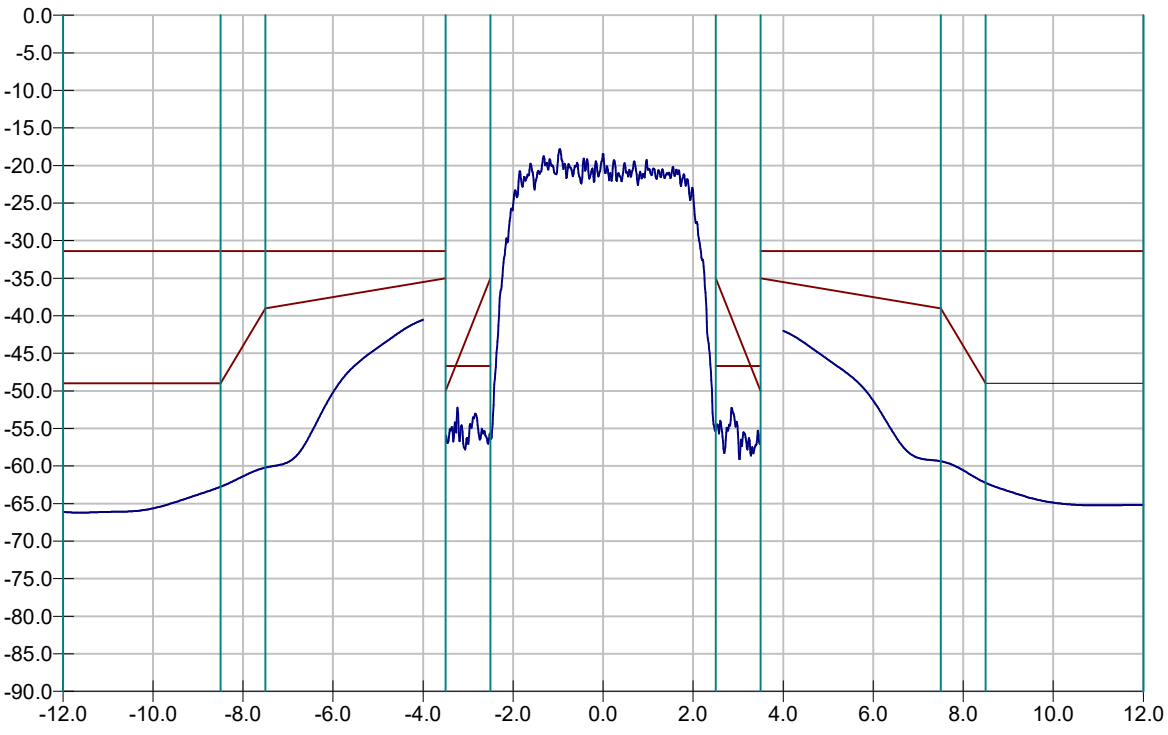
Result:

35 Tests passed / 0 Tests failed

(Execution Time: 50.6 Seconds)

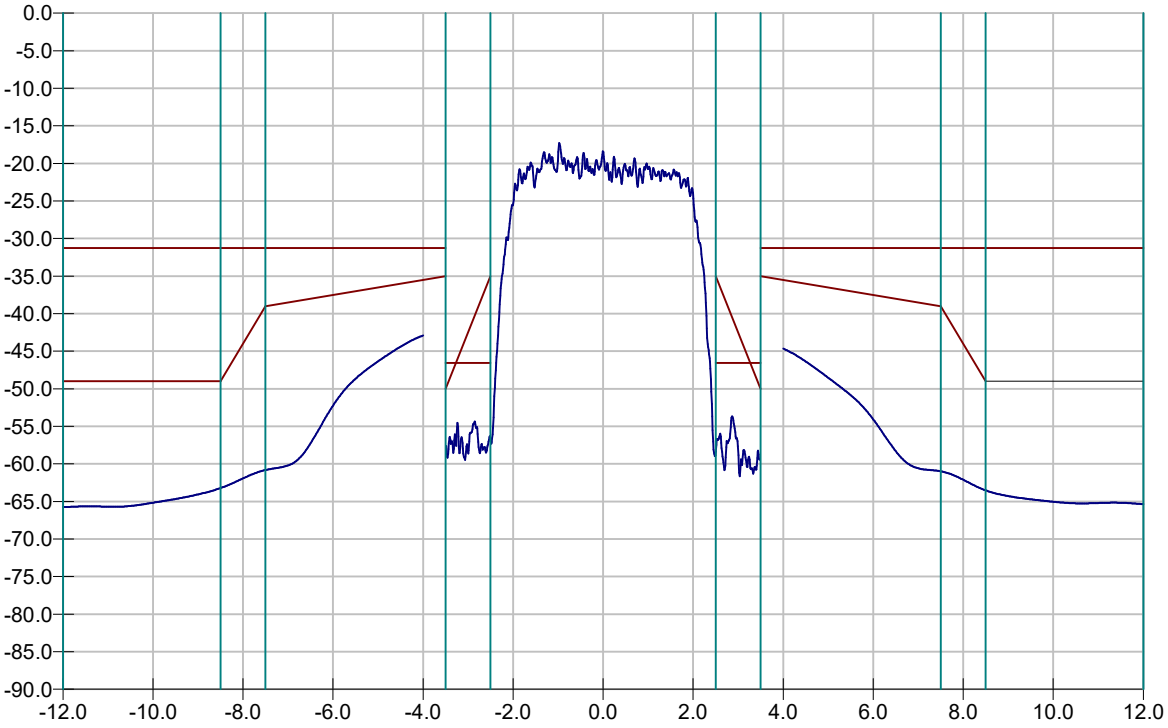
Annex: Emission Mask Graph

DL Channel 2962, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10, 640 Chips



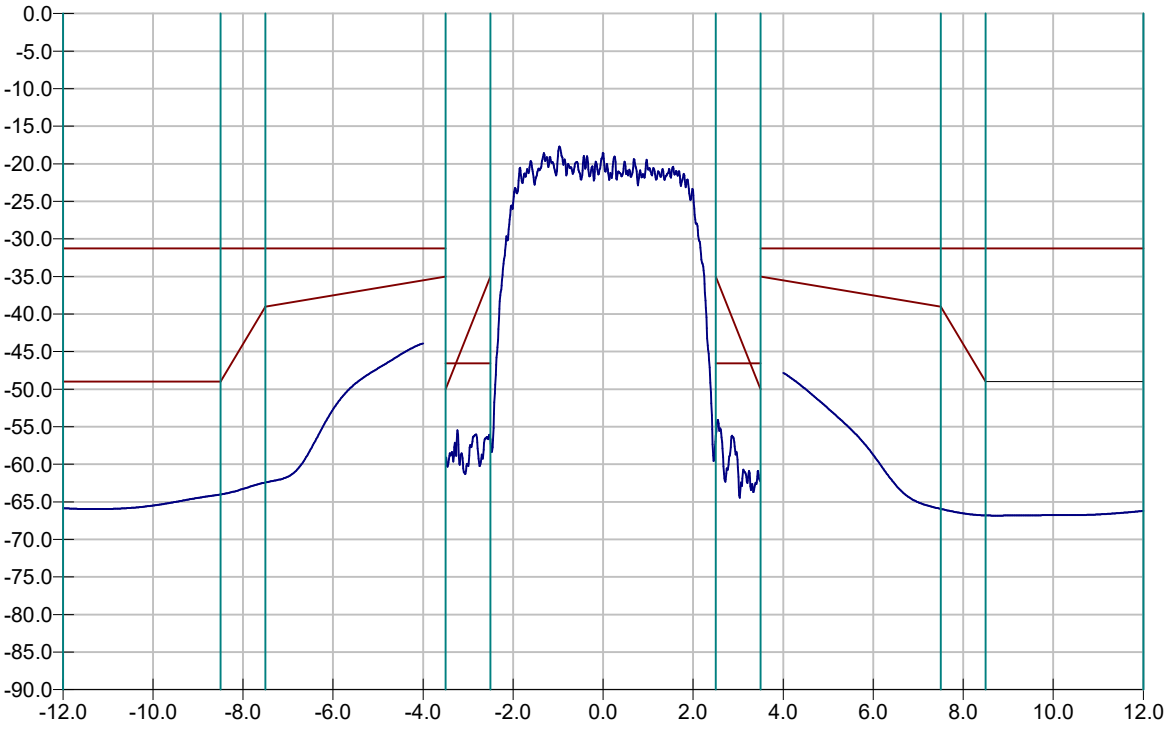
Annex: Emission Mask Graph

DL Channel 3025, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10, 640 Chips



Annex: Emission Mask Graph

DL Channel 3088, Attenuation (In/Out) 6.1 / 6.1 dB, Averaging: 10, 640 Chips

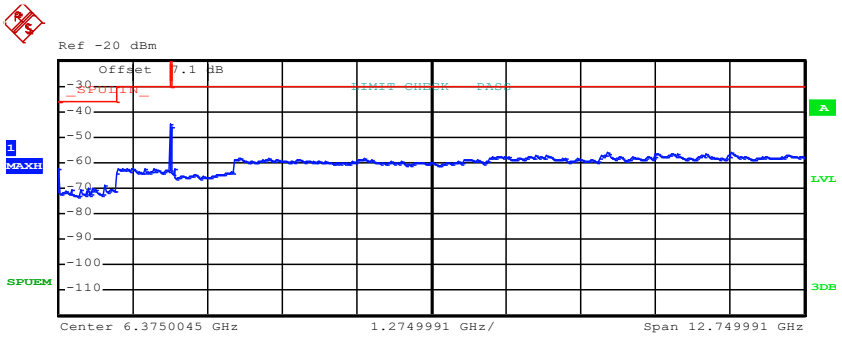


附錄 B. 混附波輻射

PLMN08 General Spurious Emissions

W-CDMA Band I

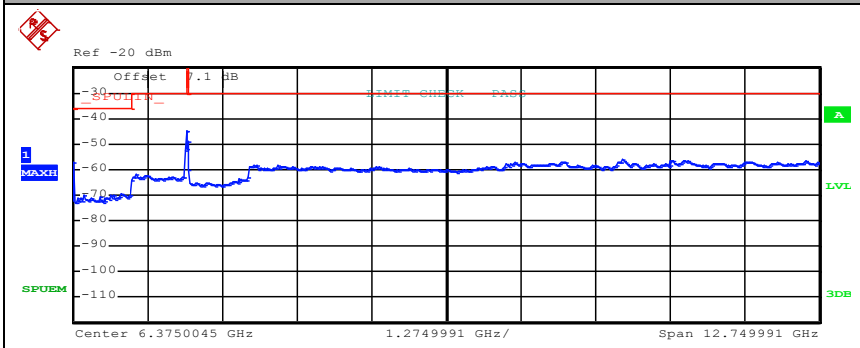
Low Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
9.000 k	150.000 k	1.00 k	10.128000 k	-62.19	-26.19
150.000 k	30.000 M	10.00 k	299.250000 k	-65.94	-29.94
30.000 M	1.000 G	100.00 k	802.120000 M	-68.71	-32.71
1.000 G	1.910 G	1.00 M	1.909673 G	-45.38	-15.38
1.935 G	12.750 G	1.00 M	1.936252 G	-46.94	-16.94

Date: 26.MAY.2021 14:41:34

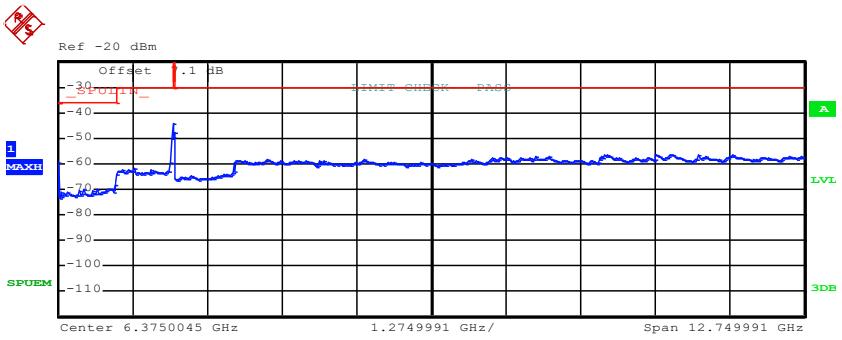
Middle Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
9.000 k	150.000 k	1.00 k	10.128000 k	-57.41	-21.41
150.000 k	30.000 M	10.00 k	329.100000 k	-66.93	-30.93
30.000 M	1.000 G	100.00 k	828.067500 M	-69.45	-33.45
1.000 G	1.938 G	1.00 M	1.935977 G	-45.14	-15.14
1.962 G	12.750 G	1.00 M	1.963848 G	-50.51	-20.51

Date: 26.MAY.2021 14:44:44

High Channel

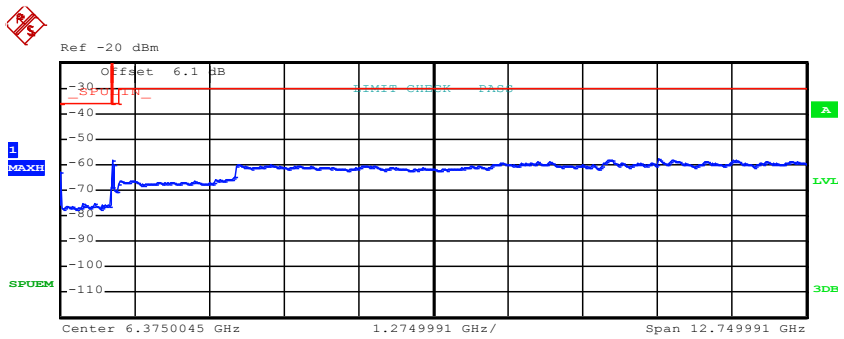


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
9.000 k	150.000 k	1.00 k	9.000000 k	-59.68	-23.68
150.000 k	30.000 M	10.00 k	150.000000 k	-64.11	-28.11
30.000 M	1.000 G	100.00 k	978.538750 M	-68.35	-32.35
1.000 G	1.965 G	1.00 M	1.963773 G	-44.53	-14.53
1.990 G	12.750 G	1.00 M	1.991445 G	-48.07	-18.07

Date: 26.MAY.2021 15:03:12

W-CDMA Band VIII

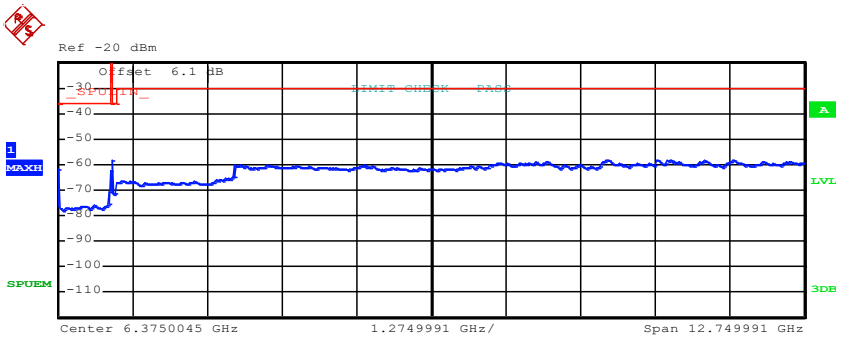
Low Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
9.000 k	150.000 k	1.00 k	9.000000 k	-62.71	-26.71
150.000 k	30.000 M	10.00 k	150.000000 k	-67.37	-31.37
30.000 M	874.900 M	100.00 k	874.055100 M	-74.46	-38.46
899.900 M	1.000 G	100.00 k	900.901000 M	-58.57	-22.57
1.000 G	12.750 G	1.00 M	10.217875 G	-57.84	-27.84

Date: 26.MAY.2021 15:25:32

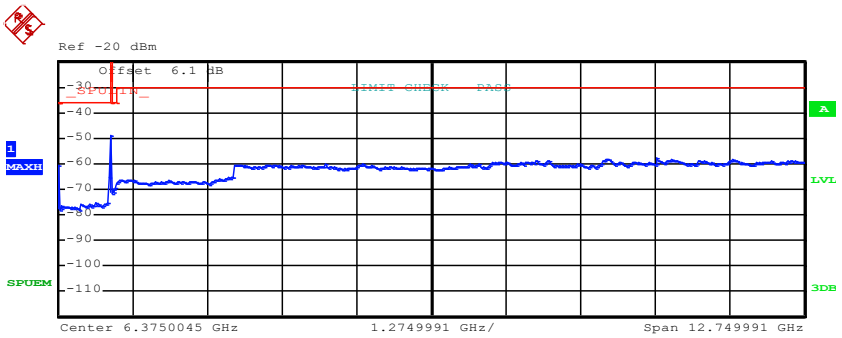
Middle Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
9.000 k	150.000 k	1.00 k	10.410000 k	-61.59	-25.59
150.000 k	30.000 M	10.00 k	179.850000 k	-68.92	-32.92
30.000 M	887.500 M	100.00 k	885.785000 M	-64.69	-28.69
912.500 M	1.000 G	100.00 k	915.475000 M	-58.26	-22.26
1.000 G	12.750 G	1.00 M	11.028625 G	-58.19	-28.19

Date: 26.MAY.2021 15:17:19

High Channel



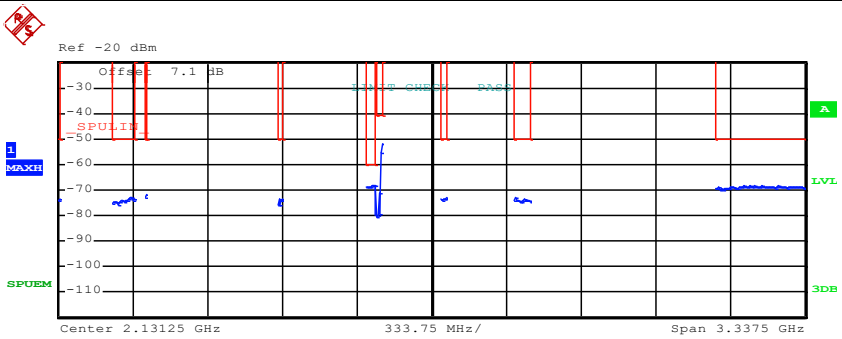
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
9.000 k	150.000 k	1.00 k	9.000000 k	-60.58	-24.58
150.000 k	30.000 M	10.00 k	150.000000 k	-68.30	-32.30
30.000 M	900.100 M	100.00 k	894.879400 M	-49.16	-13.16
925.100 M	1.000 G	100.00 k	975.732400 M	-69.23	-33.23
1.000 G	12.750 G	1.00 M	10.223750 G	-57.97	-27.97

Date: 26.MAY.2021 15:10:54

PLMN08 Additional Spurious Emissions

W-CDMA Band I

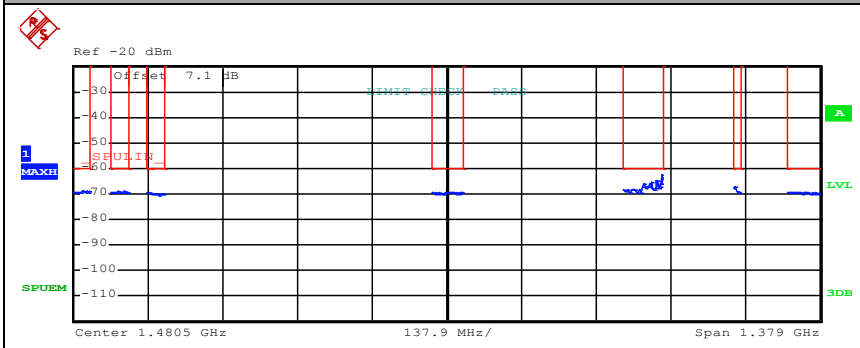
Low Channel CSE-01



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
462.500 M	467.500 M	1.00 M	467.105000 M	-73.77	-23.77
703.000 M	803.000 M	1.00 M	787.600000 M	-72.67	-22.67
852.000 M	859.000 M	1.00 M	857.341000 M	-71.82	-21.82
1.447 G	1.467 G	1.00 M	1.451720 G	-73.23	-23.23
1.840 G	1.880 G	5.00 M	1.861940 G	-68.36	-8.36
1.885 G	1.910 G	300.00 k	1.909341 G	-51.90	-10.90
2.170 G	2.200 G	1.00 M	2.198080 G	-72.75	-22.75
2.496 G	2.570 G	1.00 M	2.506286 G	-73.03	-23.03
3.400 G	3.800 G	1.00 M	3.528800 G	-68.21	-18.21

Date: 26.MAY.2021 14:40:57

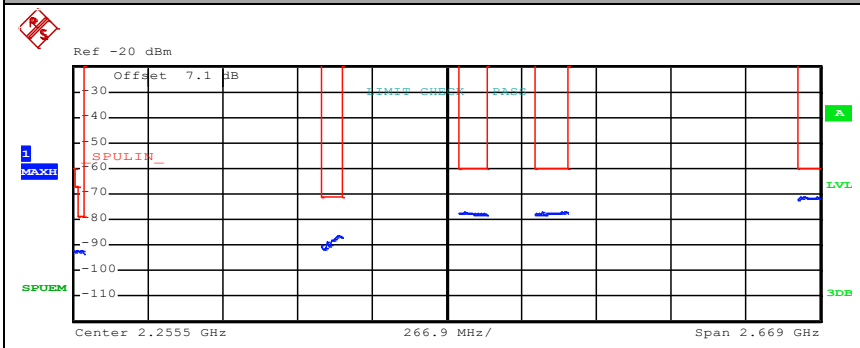
Low Channel CSE-02



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
791.000 M	821.000 M	5.00 M	808.070000 M	-68.97	-8.97
859.000 M	894.000 M	5.00 M	884.935000 M	-68.98	-8.98
925.000 M	935.000 M	5.00 M	925.450000 M	-69.30	-9.30
935.000 M	960.000 M	5.00 M	958.475000 M	-69.82	-9.82
1.452 G	1.511 G	5.00 M	1.479271 G	-69.15	-9.15
1.805 G	1.880 G	5.00 M	1.878575 G	-62.15	-2.15
2.010 G	2.025 G	5.00 M	2.013780 G	-67.31	-7.31
2.110 G	2.170 G	5.00 M	2.128780 G	-69.25	-9.25

Date: 26.MAY.2021 16:40:33

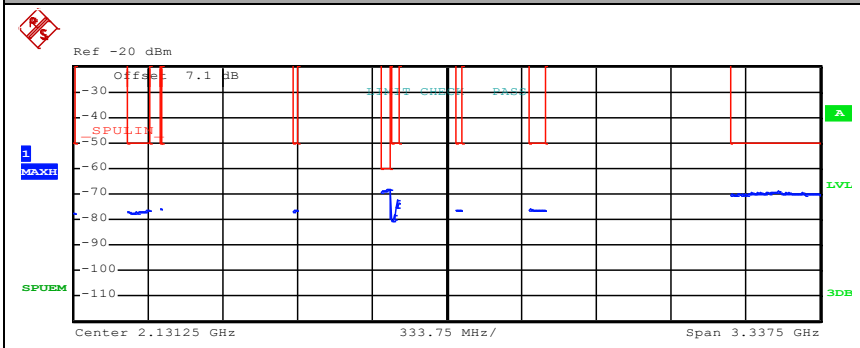
Low Channel CSE-03



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
921.000 M	925.000 M	100.00 k	924.836000 M	-92.22	-32.22
925.000 M	935.000 M	100.00 k	929.310000 M	-92.39	-25.39
935.000 M	960.000 M	100.00 k	945.225000 M	-92.13	-13.13
1.805 G	1.880 G	100.00 k	1.869575 G	-86.13	-15.13
2.300 G	2.400 G	5.00 M	2.320600 G	-77.16	-17.16
2.570 G	2.690 G	5.00 M	2.677880 G	-76.96	-16.96
3.510 G	3.590 G	5.00 M	3.580400 G	-70.93	-10.93

Date: 26.MAY.2021 14:37:34

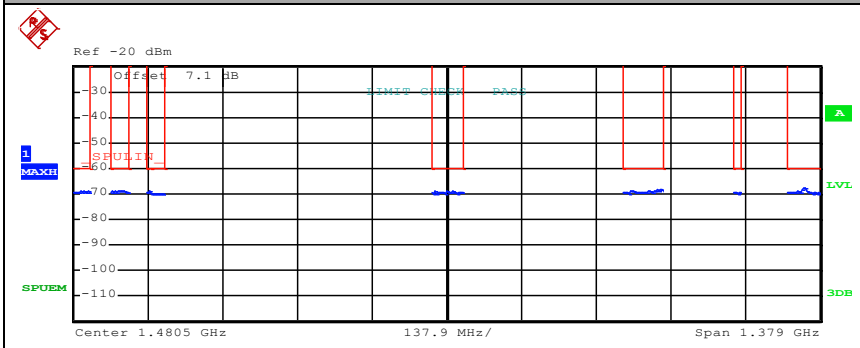
Middle Channel CSE-01



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
462.500 M	467.500 M	1.00 M	465.750000 M	-77.38	-27.38
703.000 M	803.000 M	1.00 M	802.000000 M	-76.39	-26.39
852.000 M	859.000 M	1.00 M	855.514000 M	-75.84	-25.84
1.447 G	1.467 G	1.00 M	1.465740 G	-76.40	-26.40
1.840 G	1.880 G	5.00 M	1.875900 G	-68.41	-8.41
1.885 G	1.916 G	300.00 k	1.911426 G	-72.41	-22.41
2.170 G	2.200 G	1.00 M	2.170510 G	-76.20	-26.20
2.496 G	2.570 G	1.00 M	2.505620 G	-76.11	-26.11
3.400 G	3.800 G	1.00 M	3.610400 G	-68.98	-18.98

Date: 26.MAY.2021 14:45:11

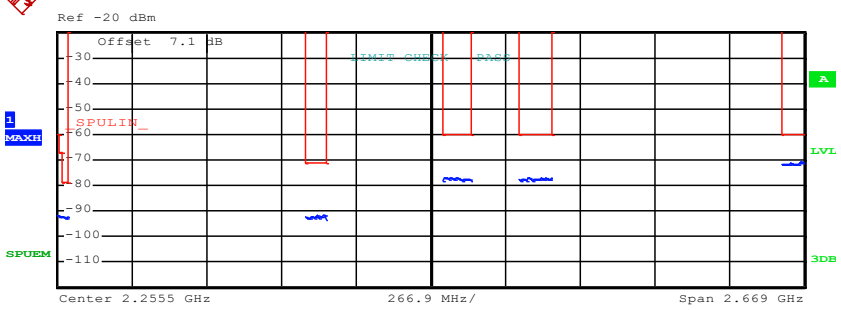
Middle Channel CSE-02



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
791.000 M	821.000 M	5.00 M	805.010000 M	-68.67	-8.67
859.000 M	894.000 M	5.00 M	868.590000 M	-68.81	-8.81
925.000 M	935.000 M	5.00 M	932.480000 M	-69.10	-9.10
935.000 M	960.000 M	5.00 M	952.875000 M	-69.95	-9.95
1.452 G	1.511 G	5.00 M	1.458715 G	-68.84	-8.84
1.805 G	1.880 G	5.00 M	1.870025 G	-68.15	-8.15
2.010 G	2.025 G	5.00 M	2.013405 G	-69.16	-9.16
2.110 G	2.170 G	5.00 M	2.141200 G	-67.67	-7.67

Date: 26.MAY.2021 14:45:30

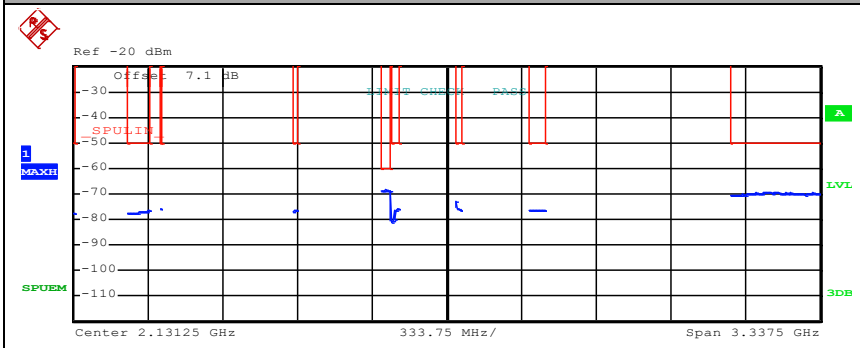
Middle Channel CSE-03



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
921.000 M	925.000 M	100.00 k	922.012000 M	-91.93	-31.93
925.000 M	935.000 M	100.00 k	934.670000 M	-92.15	-25.15
935.000 M	960.000 M	100.00 k	958.850000 M	-92.04	-13.04
1.805 G	1.880 G	100.00 k	1.871825 G	-91.52	-20.52
2.300 G	2.400 G	5.00 M	2.332400 G	-76.82	-16.82
2.570 G	2.690 G	5.00 M	2.667440 G	-77.00	-17.00
3.510 G	3.590 G	5.00 M	3.580640 G	-70.87	-10.87

Date: 26.MAY.2021 14:45:53

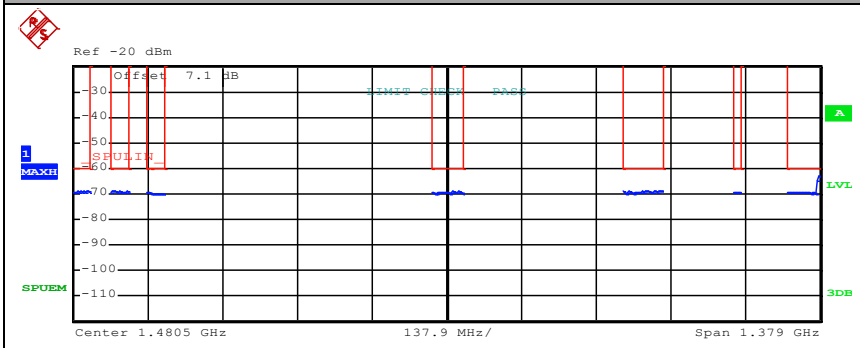
High Channel CSE-01



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
462.500 M	467.500 M	1.00 M	464.190000 M	-77.41	-27.41
703.000 M	803.000 M	1.00 M	801.800000 M	-76.55	-26.55
852.000 M	859.000 M	1.00 M	856.613000 M	-75.87	-25.87
1.447 G	1.467 G	1.00 M	1.447460 G	-76.57	-26.57
1.840 G	1.880 G	5.00 M	1.859060 G	-68.48	-8.48
1.885 G	1.916 G	300.00 k	1.913485 G	-75.88	-25.88
2.170 G	2.200 G	1.00 M	2.170060 G	-73.62	-23.62
2.496 G	2.570 G	1.00 M	2.499626 G	-76.29	-26.29
3.400 G	3.800 G	1.00 M	3.602000 G	-69.37	-19.37

Date: 26.MAY.2021 15:03:43

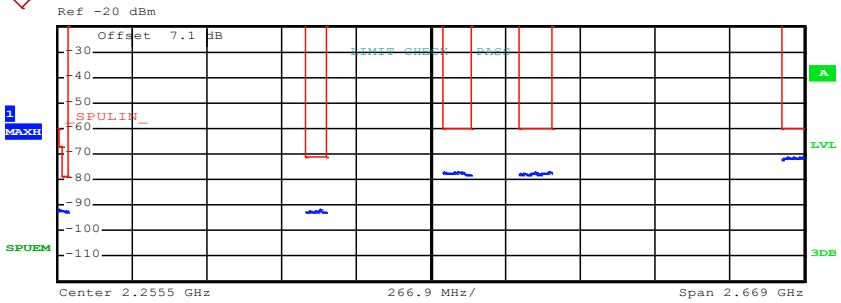
High Channel CSE-02



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
791.000 M	821.000 M	5.00 M	819.620000 M	-68.54	-8.54
859.000 M	894.000 M	5.00 M	868.765000 M	-68.70	-8.70
925.000 M	935.000 M	5.00 M	925.410000 M	-69.18	-9.18
935.000 M	960.000 M	5.00 M	959.750000 M	-69.80	-9.80
1.452 G	1.511 G	5.00 M	1.501358 G	-68.77	-8.77
1.805 G	1.880 G	5.00 M	1.851875 G	-68.54	-8.54
2.010 G	2.025 G	5.00 M	2.024490 G	-69.21	-9.21
2.110 G	2.170 G	5.00 M	2.167420 G	-62.75	-2.75

Date: 26.MAY.2021 15:04:02

High Channel CSE-03

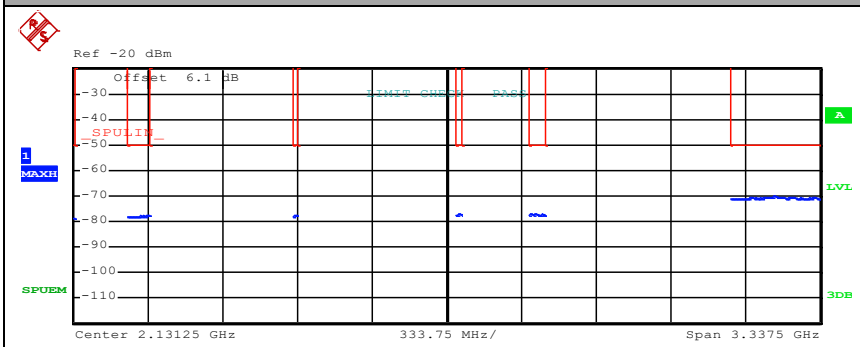


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
921.000 M	925.000 M	100.00 k	924.964000 M	-92.19	-32.19
925.000 M	935.000 M	100.00 k	927.410000 M	-91.72	-24.72
935.000 M	960.000 M	100.00 k	942.600000 M	-92.33	-13.33
1.805 G	1.880 G	100.00 k	1.860725 G	-91.93	-20.93
2.300 G	2.400 G	5.00 M	2.369400 G	-76.95	-16.95
2.570 G	2.690 G	5.00 M	2.630600 G	-76.90	-16.90
3.510 G	3.590 G	5.00 M	3.552080 G	-71.00	-11.00

Date: 26.MAY.2021 15:04:21

W-CDMA Band VIII

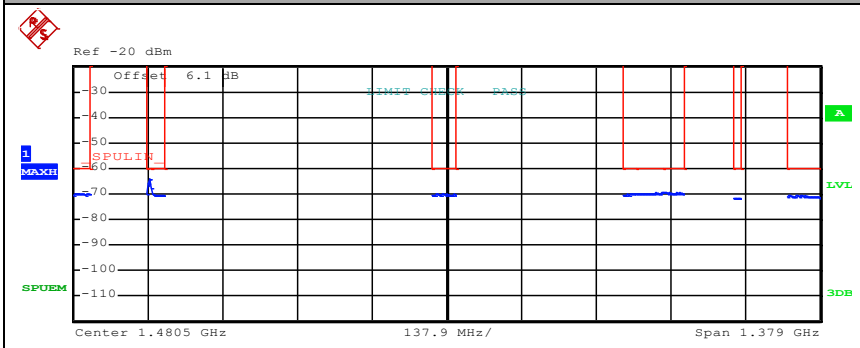
Low Channel CSE-01



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
462.500 M	467.500 M	1.00 M	465.405000 M	-78.48	-28.48
703.000 M	803.000 M	1.00 M	798.600000 M	-77.49	-27.49
1.447 G	1.467 G	1.00 M	1.460520 G	-77.33	-27.33
2.170 G	2.200 G	1.00 M	2.181760 G	-77.10	-27.10
2.496 G	2.570 G	1.00 M	2.524416 G	-77.02	-27.02
3.400 G	3.800 G	1.00 M	3.594400 G	-70.10	-20.10

Date: 26.MAY.2021 15:26:03

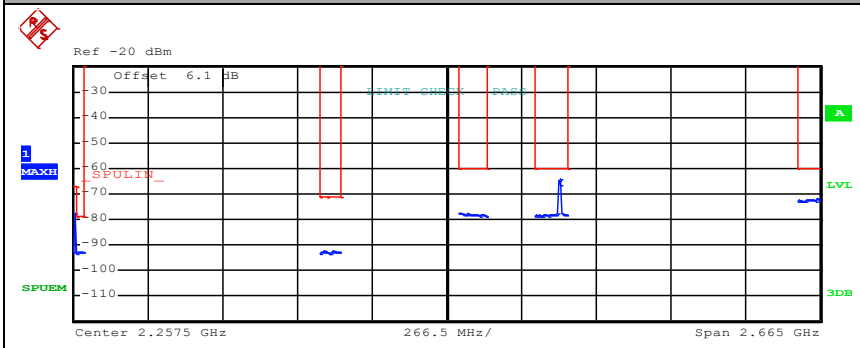
Low Channel CSE-02



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
791.000 M	821.000 M	5.00 M	818.210000 M	-69.73	-9.73
925.000 M	935.000 M	5.00 M	931.580000 M	-63.88	-3.88
935.000 M	960.000 M	5.00 M	935.000000 M	-67.66	-7.66
1.452 G	1.496 G	5.00 M	1.461152 G	-69.72	-9.72
1.805 G	1.830 G	5.00 M	1.828500 G	-70.00	-10.00
1.830 G	1.880 G	5.00 M	1.877300 G	-69.68	-9.68
1.880 G	1.920 G	5.00 M	1.881120 G	-69.23	-9.23
2.010 G	2.025 G	5.00 M	2.021492 G	-71.48	-11.48
2.110 G	2.170 G	5.00 M	2.134194 G	-70.66	-10.66

Date: 26.MAY.2021 15:27:19

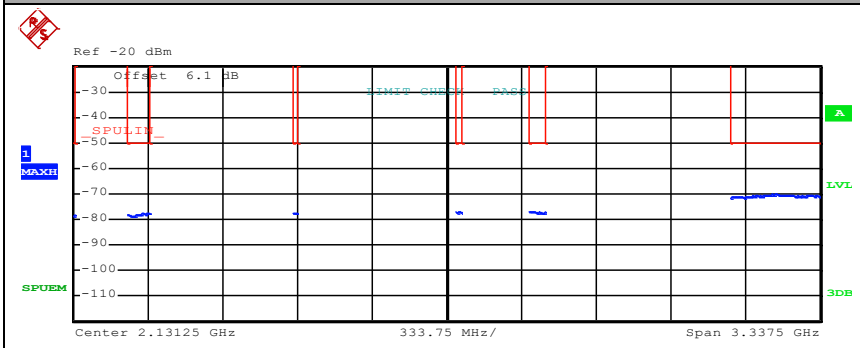
Low Channel CSE-03



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
925.000 M	935.000 M	100.00 k	930.880000 M	-77.72	-10.72
935.000 M	960.000 M	100.00 k	953.700000 M	-92.77	-13.77
1.805 G	1.830 G	100.00 k	1.821225 G	-92.39	-21.39
1.830 G	1.880 G	100.00 k	1.849900 G	-92.48	-21.48
2.300 G	2.400 G	5.00 M	2.300300 G	-77.71	-17.71
2.570 G	2.690 G	5.00 M	2.660960 G	-64.19	-4.19
3.510 G	3.590 G	5.00 M	3.580160 G	-71.96	-11.96

Date: 26.MAY.2021 15:28:16

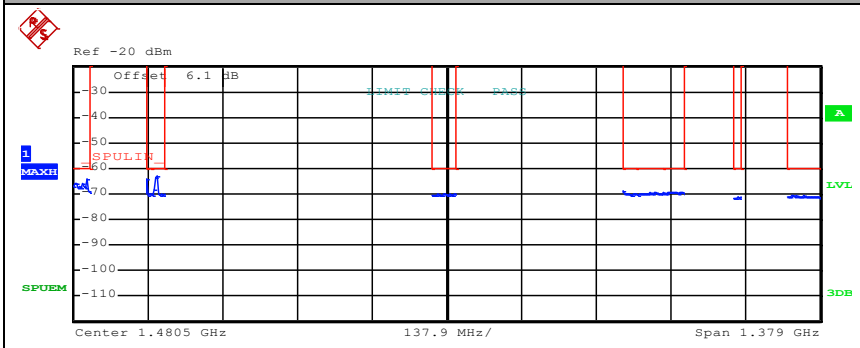
Middle Channel CSE-01



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
462.500 M	467.500 M	1.00 M	466.810000 M	-78.40	-28.40
703.000 M	803.000 M	1.00 M	801.800000 M	-77.36	-27.36
1.447 G	1.467 G	1.00 M	1.456660 G	-77.41	-27.41
2.170 G	2.200 G	1.00 M	2.173450 G	-76.94	-26.94
2.496 G	2.570 G	1.00 M	2.525896 G	-77.10	-27.10
3.400 G	3.800 G	1.00 M	3.602000 G	-70.18	-20.18

Date: 26.MAY.2021 15:17:47

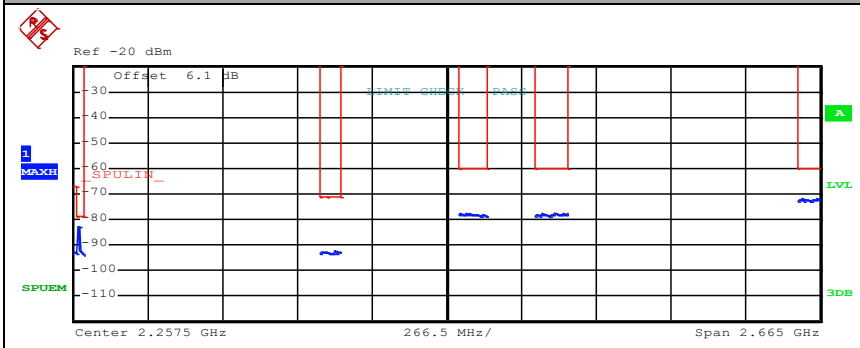
Middle Channel CSE-02



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
791.000 M	821.000 M	5.00 M	814.490000 M	-64.29	-4.29
925.000 M	935.000 M	5.00 M	925.040000 M	-63.91	-3.91
935.000 M	960.000 M	5.00 M	944.675000 M	-62.77	-2.77
1.452 G	1.496 G	5.00 M	1.495868 G	-69.73	-9.73
1.805 G	1.830 G	5.00 M	1.805075 G	-68.82	-8.82
1.830 G	1.880 G	5.00 M	1.855850 G	-69.16	-9.16
1.880 G	1.920 G	5.00 M	1.896720 G	-69.30	-9.30
2.010 G	2.025 G	5.00 M	2.017984 G	-71.38	-11.38
2.110 G	2.170 G	5.00 M	2.125968 G	-70.78	-10.78

Date: 26.MAY.2021 15:18:08

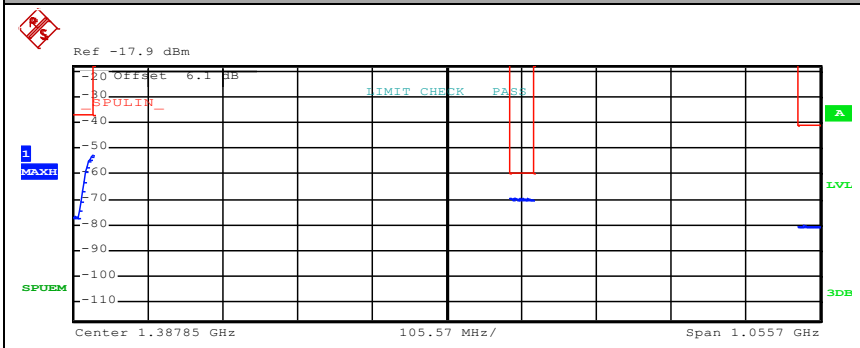
Middle Channel CSE-03



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
925.000 M	935.000 M	100.00 k	930.190000 M	-92.79	-25.79
935.000 M	960.000 M	100.00 k	944.975000 M	-83.05	-4.05
1.805 G	1.830 G	100.00 k	1.809375 G	-92.68	-21.68
1.830 G	1.880 G	100.00 k	1.857950 G	-92.13	-21.13
2.300 G	2.400 G	5.00 M	2.307900 G	-77.40	-17.40
2.570 G	2.690 G	5.00 M	2.689760 G	-77.64	-17.64
3.510 G	3.590 G	5.00 M	3.577360 G	-71.99	-11.99

Date: 26.MAY.2021 15:36:12

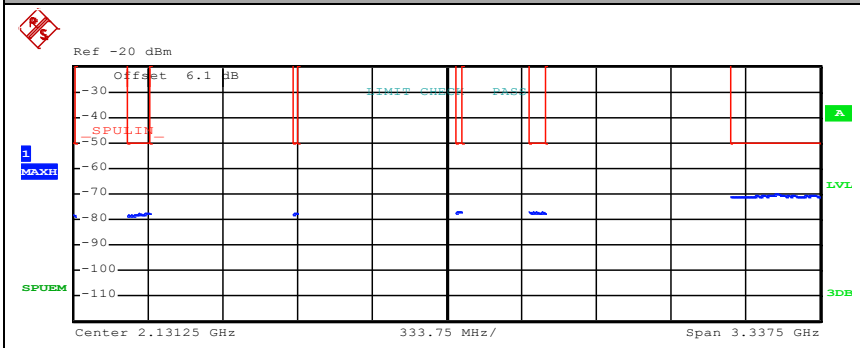
Middle Channel CSE-04



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
860.000 M	887.500 M	1.00 M	887.307500 M	-52.83	-15.83
1.476 G	1.511 G	5.00 M	1.483215 G	-69.64	-9.64
1.885 G	1.916 G	300.00 k	1.893018 G	-80.10	-39.10

Date: 26.MAY.2021 15:20:14

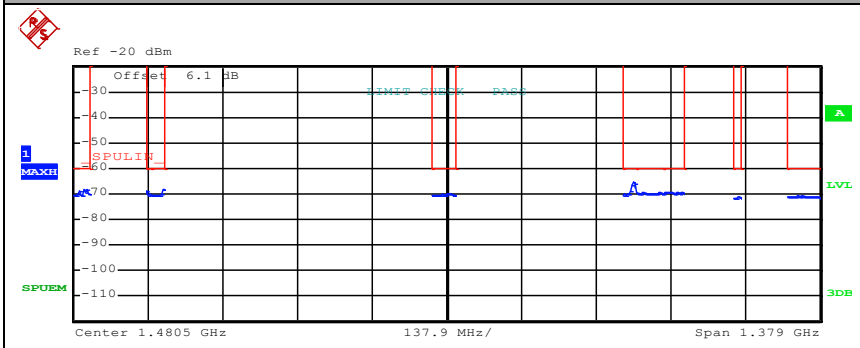
High Channel CSE-01



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
462.500 M	467.500 M	1.00 M	465.265000 M	-78.34	-28.34
703.000 M	803.000 M	1.00 M	797.400000 M	-77.61	-27.61
1.447 G	1.467 G	1.00 M	1.466080 G	-77.41	-27.41
2.170 G	2.200 G	1.00 M	2.194450 G	-76.91	-26.91
2.496 G	2.570 G	1.00 M	2.528560 G	-77.14	-27.14
3.400 G	3.800 G	1.00 M	3.609600 G	-69.86	-19.86

Date: 26.MAY.2021 15:11:19

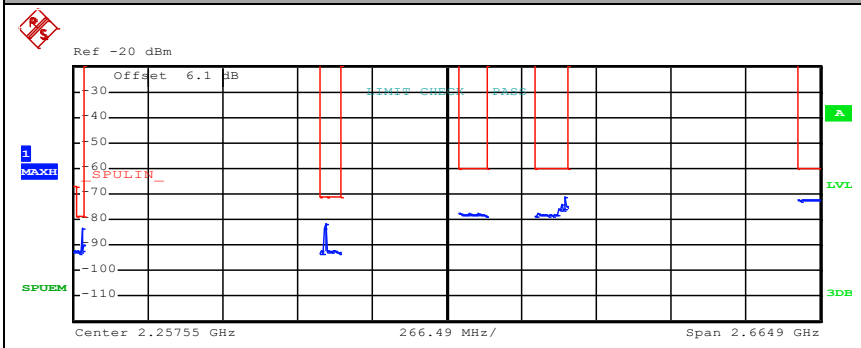
High Channel CSE-02



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
791.000 M	821.000 M	5.00 M	815.600000 M	-67.96	-7.96
925.100 M	935.000 M	5.00 M	925.268300 M	-69.47	-9.47
935.000 M	960.000 M	5.00 M	957.325000 M	-68.07	-8.07
1.452 G	1.496 G	5.00 M	1.489928 G	-69.96	-9.96
1.805 G	1.830 G	5.00 M	1.825625 G	-65.15	-5.15
1.830 G	1.880 G	5.00 M	1.830000 G	-68.40	-8.40
1.880 G	1.920 G	5.00 M	1.915720 G	-69.37	-9.37
2.010 G	2.025 G	5.00 M	2.018226 G	-71.44	-11.44
2.110 G	2.170 G	5.00 M	2.126935 G	-70.79	-10.79

Date: 26.MAY.2021 15:12:05

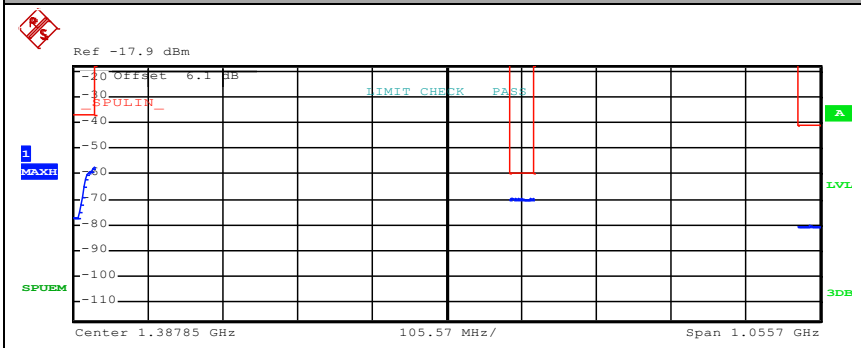
High Channel CSE-03



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
925.100 M	935.000 M	100.00 k	931.198400 M	-92.44	-25.44
935.000 M	960.000 M	100.00 k	958.625000 M	-83.58	-4.58
1.805 G	1.830 G	100.00 k	1.826775 G	-81.60	-10.60
1.830 G	1.880 G	100.00 k	1.835050 G	-92.11	-21.11
2.300 G	2.400 G	5.00 M	2.305900 G	-77.64	-17.64
2.570 G	2.690 G	5.00 M	2.678960 G	-71.01	-11.01
3.510 G	3.590 G	5.00 M	3.546720 G	-72.24	-12.24

Date: 26.MAY.2021 15:14:38

High Channel CSE-04



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
860.000 M	890.000 M	1.00 M	889.730000 M	-57.43	-20.43
1.476 G	1.511 G	5.00 M	1.489585 G	-69.41	-9.41
1.885 G	1.916 G	300.00 k	1.900256 G	-80.47	-39.47

Date: 26.MAY.2021 15:11:40