



行動通信電信終端設備檢驗報告

產品名稱：Mobile Cellular Phone

廠牌：Motorola

型號：XT2173-2

申請廠商：Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

製造廠商：Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

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 8 月 5 日
- 於民國 110 年 8 月 9 日開始測試，民國 110 年 8 月 10 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。
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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
TG170932-01	01	初版	2021 年 9 月 27 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	6.5.1	工作頻帶	符合	Tx : 890.2 ~ 914.8 MHz Rx : 935.2 ~ 959.8 MHz
2	6.5.3	收發頻率間隔	符合	GSM900: 45 MHz
2	6.5.4	頻道間隔	符合	200 kHz
附錄 A	6.5.2.	最大發射輸出功率	符合	32.52 dBm
附錄 A	6.5.6	頻率穩定度	符合	38 Hz
附錄 A	6.5.2.2.1.3	擷取叢訊功率	符合	-
附錄 A	6.6.2	電波功率密度	不適用	-
附錄 A	5.2	電壓條件	符合	-
附錄 B	6.5.7	調變頻譜	符合	-
附錄 C	6.5.5.1 6.5.5.2 6.5.5.3	混附發射	符合	-

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: 鄭文凱

報告製作: 羅聿珊

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

Product Feature & Specification	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2173-2
Sample 1	1st source (refer to the PED)
Sample 2	2nd source (refer to the PED)
Sample 3	3rd source (refer to the PED)
Sample 4	4th source (refer to the PED)
IMEI Code	IMEI 1: 354943970039056 IMEI 2: 354943970039064
Tx Frequency	GSM900 : 890 MHz ~ 915 MHz
Rx Frequency	GSM900 : 935 MHz ~ 960 MHz
Maximum Output Power to Antenna	GSM900: 32.52 dBm (Class 4)
HW Version	DVT2
Type of Modulation	GMSK
EUT Stage	Identical Prototype

Remark:

1. For other wireless features of this EUT, test report will be issued separately.
2. The above EUT's information was declared by manufacturer.
3. All test items were performed with Sample 1.

Antenna Information				
Antenna	Brand Name	WTT	Peak Gain	GSM900: -1.80 dBi
	Model Name	M322-MAIN-WTT	Type	Loop Antenna

Remark:

1. The detail internal, external and transmit antenna photo please refer to Sporton report no.: EP170932-01.
2. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.



Accessory List	
AC Adapter 1	Brand Name : Motorola
	Model Name : MC-101
	Manufacturer : Salcomp
AC Adapter 2	Brand Name : Motorola
	Model Name : MC-101
	Manufacturer : Aohai
Battery 1	Brand Name : Motorola
	Model Name : JK50
	Manufacturer : Sunwoda
Battery 2	Brand Name : Motorola
	Model Name : JK50
	Manufacturer : ATL
Battery 3	Brand Name : Motorola
	Model Name : JK50
	Manufacturer : SCUD
Earphone	Brand Name : Motorola
	Model Name : MH202
USB Cable 1	Brand Name : Motorola
	Model Name : 5269AA000185
USB Cable 2	Brand Name : Motorola
	Model Name : 5269AA000189



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	25~26°C
Relative Humidity	52~53%
Extreme Temperature	-10°C and 55°C
Normal Voltage	DC3.8V
Extreme Voltage	DC3.65V and DC 4.4V

1.4 測試模式

GSM900:

此測試共有3個測試模式:

模式一 : 頻道1 (低頻道)

模式二 : 頻道62 (中間頻道)

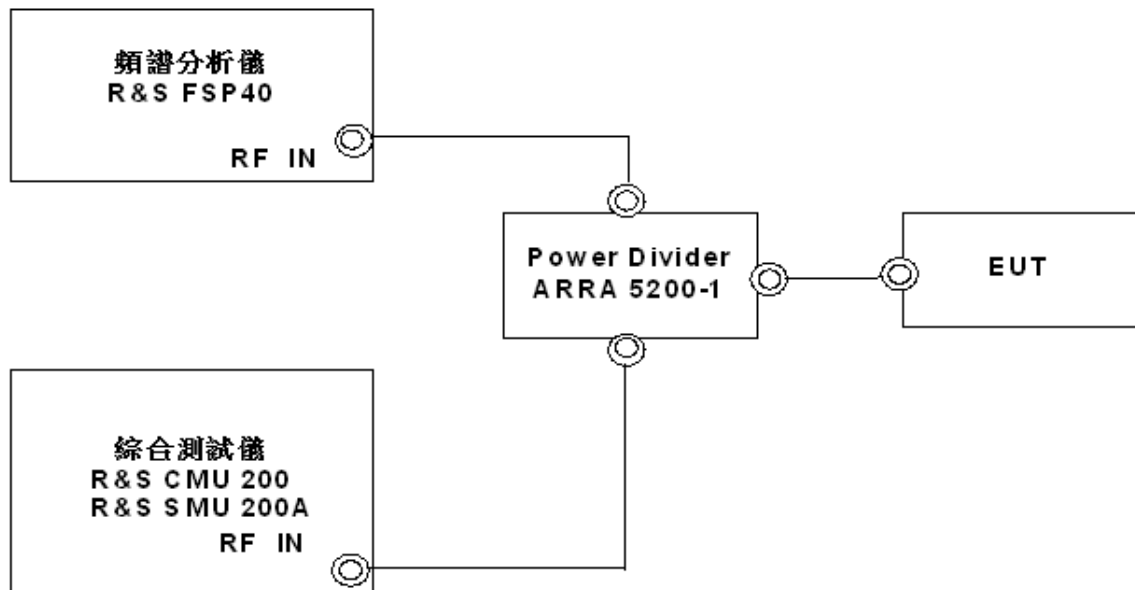
模式三 : 頻道124 (高頻道)



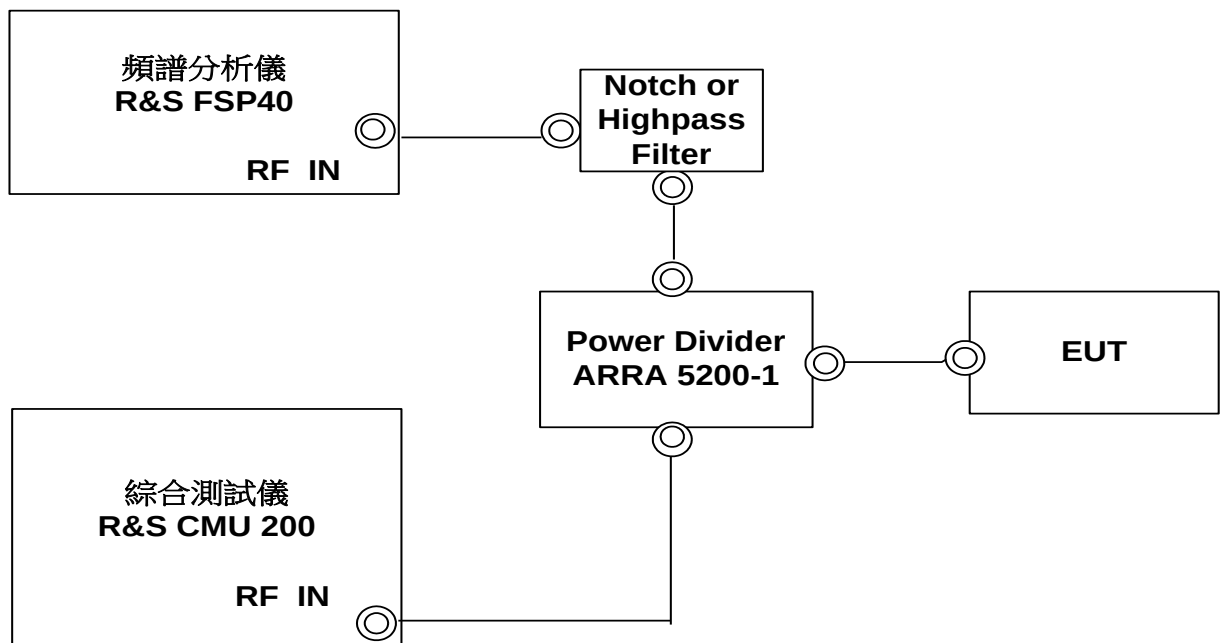
2. 一般特性檢驗

GSM900		
項次	檢驗項目	合格標準
1	工作頻帶 ($n = 1 \sim 124$)	Tx : $890 + n * 0.2$ MHz
		Rx : $935 + n * 0.2$ MHz
2	收發頻率間隔	45 MHz
3	頻道間隔	200 kHz
4	最大發射輸出功率	8W: 39dBm(Class 2) 5W: 37dBm(Class 3) 2W: 33dBm(Class 4) 0.8W: 29dBm(Class 5)
5	頻率穩定度	頻率誤差(Hz) : ≤ 90 Hz
6	擷取叢訊功率	-
7	調變頻譜	偏移載波頻率在100~1800kHz內調變頻譜(dB) 、 功率轉換瞬態(dBm) 限制值參照5.5及5.6
8	混附發射(dBm)	連線狀態時限制值參照5.3
		空閒狀態時限制值參照5.4
9	電波功率密度	限制值參照5.7
10	電壓條件	參照5.8

3. 檢驗接續圖



一般特性接續圖



混附波輻射接續圖(Conducted)



4. 檢驗使用儀器

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 03, 2021	Aug. 09, 2021~ Aug. 10, 2021	Mar. 02, 2022	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 03, 2020	Aug. 09, 2021~ Aug. 10, 2021	Sep. 02, 2021	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 14, 2020	Aug. 09, 2021~ Aug. 10, 2021	Sep. 13, 2021	Conducted (TH03-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	117997	GSM / GPRS / WCDMA / CDMA	Sep. 22, 2020	Aug. 09, 2021~ Aug. 10, 2021	Sep. 21, 2021	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~4A	Oct. 05, 2020	Aug. 09, 2021~ Aug. 10, 2021	Oct. 04, 2021	Conducted (TH03-HY)

5. 量測設定及限制值

5.1 混附波輻射發射頻帶內設定值

頻帶	偏離載波頻率	測量頻寬
900MHz相關發射頻帶：890-915MHz	$\geq 1.8\text{MHz}$	30 kHz

5.2 混附波輻射發射頻帶外設定值

頻帶	偏離相關發射頻帶邊緣	測量頻寬
100kHz—50MHz	—	10 kHz
50MHz—500MHz	—	100 kHz
500MHz以上，但在表一之一相關發射頻帶外	$\geq 2\text{ MHz}$	30 kHz
	$\geq 5\text{ MHz}$	100 kHz
	$\geq 10\text{ MHz}$	300 kHz
	$\geq 20\text{ MHz}$	1 MHz
	$\geq 30\text{ MHz}$	3 MHz

5.3 混附波輻射連線狀態限制值

頻率範圍	功率位準 (dBm)
	GSM 900
100kHz 至 1GHz	-36
1GHz 至 12.75GHz	-30

5.4 混附波輻射空閒狀態限制值

頻率範圍	功率位準 (dBm)
9kHz 至 880MHz	-57
880MHz 至 915MHz	-59
915MHz 至 1GHz	-57
1GHz 至 1710MHz	-47
1710MHz 至 1785MHz	-53
1785MHz 至 12.75GHz	-47

5.5 調變頻譜（Spectrum due to the modulation）設定及限制值

功率(dBm)		在偏移載波下列頻率(kHz)時其相對於載波功率之最大允許值(dB)								
		30kHz (測量頻寬)						100kHz (測量頻寬)		
		100	200	250	400	600~ <1200	1200~ <1800	1800~ <3000	3000~ <6000	≥6000
GSM900	≥39	+0.5	-30	-33	-60	-66	-66	-69	-71	-77
	37	+0.5	-30	-33	-60	-64	-64	-67	-69	-75
	35	+0.5	-30	-33	-60	-62	-62	-65	-67	-73
	≤33	+0.5	-30	-33	-60	-60	-60	-63	-65	-71

5.6 功率轉換瞬態所產生之頻譜（Spectrum due to switching transients）限制值 GSM 900

功率位準	載波頻率不同偏移之最大位準			
	400kHz	600kHz	1200kHz	1800kHz
39dBm	-13dBm	-21dBm	-21dBm	-24dBm
37dBm	-15dBm	-21dBm	-21dBm	-24dBm
35dBm	-17dBm	-21dBm	-21dBm	-24dBm
33dBm	-19dBm	-21dBm	-21dBm	-24dBm
31dBm	-21dBm	-23dBm	-23dBm	-26dBm
29dBm	-23dBm	-25dBm	-25dBm	-28dBm
27dBm	-23dBm	-26dBm	-27dBm	-30dBm
25dBm	-23dBm	-26dBm	-29dBm	-32dBm
23dBm	-23dBm	-26dBm	-31dBm	-34dBm
≤21dBm	-23dBm	-26dBm	-32dBm	-36dBm

5.7 電波功率密度

5.7.1. 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

5.7.2. 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

5.7.3. Test Result of Power Density

Please refer to 附錄 A.

5.8 電壓條件

5.8.1. 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

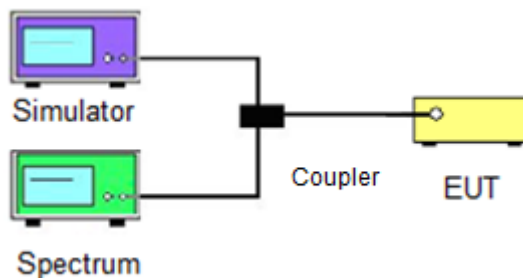
電源電壓低於上表之低極端電壓或高於上表之高極端電壓，終端設備若可通電開機時，不得無效使用第 3 點規定之頻段。

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。

5.8.2. 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。

5.8.3. Test Setup



5.8.4. Test Result of Voltage Conditions

關機電壓數值 Please refer to 附錄 A.

測試結果：符合

5.9 頻率穩定度

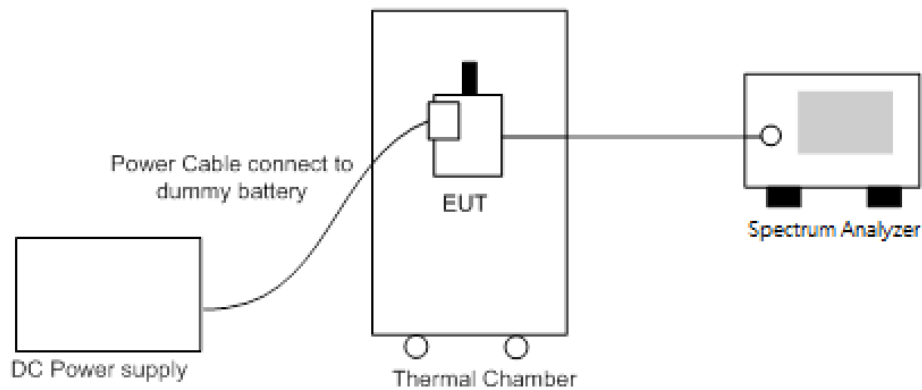
5.9.1. Limit

頻率誤差應小於 90Hz。

5.9.2. Test Procedures

溫度在攝氏-10℃～55℃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，頻率誤差應小於 90Hz。

5.9.3. Test Setup



5.9.4. Test Result of Frequency Tolerance

Please refer to 附錄A.

附錄A. 測試結果 - 功率限制/電波功率密度/頻率穩定度

測試環境	溫度	°C	25~26
	濕度	%	52~53
測試工程師	-----		Oscar Chi
發射天線之最大方向增益	dBi		-1.80
標準供應電壓	VDC		3.85
關機電壓	VDC		3.30

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 GSM900

傳導發射功率	單位	低頻道	中頻道	高頻道	限制	結果
功率控制位準 = 5	dBm	31.69	32.52	31.59	33 +2/-2	符合
電波功率密度	mW/cm ²	-----	-----	-----	0.45	不適用

註1: Power Class 4

註2: 攜帶式終端設備

供電方式	鋰電池								
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 °C + 4.24 V	Hz	28.00	33.00	37.00	38.00	≤ 90.0	符合	
高溫高壓	55 °C + 4.24 V	Hz	20.00	25.00	28.00	29.00	≤ 90.0	符合	
高溫低壓	55 °C + 3.65 V	Hz	17.00	19.00	23.00	25.00	≤ 90.0	符合	
低溫高壓	-10 °C + 4.24 V	Hz	21.00	23.00	24.00	24.00	≤ 90.0	符合	
低溫低壓	-10 °C + 3.65 V	Hz	23.00	25.00	29.00	32.00	≤ 90.0	符合	

Measurement Report



報告編號 : TG170932-01

ROHDE & SCHWARZ

Operator: noname

2021年8月9日 下午 16:20:02

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

Options: 0,B17,B21Var14,B52Var14,B54Var14,B56Var54,B66,COPROC_FULLL,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
-------------------------	-------------	-------------	----------------	-----

Network: GSM 900, BCCH Channel/Level: 62/-85.0 dBm, TCH Channel: 62, TCH Level (dBm): -85.0, Support GSM, PCL: 5

(Main) Timeslot: 3, Attenuation (In/Out): 5.3/5.3 dB, Slot Mode: Single Slot, Bitstream: PR9, AuxTX: Off

Traffic Mode: Full Rate V1

IMSI: 1. 1.0123456789,Serial: 35494397-003905-6, Revision: PH2P, Number: 111, Traffic: NAN, Power Class: 4

Call from Mobile:			passed	✓
Keypad Test: (Ref.: 111)			passed	✓

GSM 900, Channel 1, PCL 5, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Average Power: 10 Bursts	31.00 dBm	35.00 dBm	31.69 dBm	✓
Peak Burst Power: 10 Bursts	31.00 dBm	35.00 dBm	31.92 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.21 Bit	✓
Phase Error Peak: 10 Bursts	-20.00 ?	20.00 ?	1.41 ?	✓
Phase Error RMS: 10 Bursts		5.00 ?	0.49 ?	✓
Frequency Error: 10 Bursts	-90.00 Hz	90.00 Hz	10.14 Hz	✓

GSM 900, Channel 1, PCL 19, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Phase Error Peak: 10 Bursts	-20.00 ?	20.00 ?	1.52 ?	✓
Phase Error RMS: 10 Bursts		5.00 ?	0.53 ?	✓
Frequency Error: 10 Bursts	-90.00 Hz	90.00 Hz	7.23 Hz	✓

GSM 900, Channel 62, PCL 5, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Average Power: 10 Bursts	31.00 dBm	35.00 dBm	32.52 dBm	✓
Peak Burst Power: 10 Bursts	31.00 dBm	35.00 dBm	32.77 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.31 Bit	✓
Phase Error Peak: 10 Bursts	-20.00 ?	20.00 ?	1.58 ?	✓
Phase Error RMS: 10 Bursts		5.00 ?	0.54 ?	✓
Frequency Error: 10 Bursts	-90.00 Hz	90.00 Hz	8.39 Hz	✓

GSM 900, Channel 62, PCL 6, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Average Power: 10 Bursts	28.00 dBm	34.00 dBm	31.54 dBm	✓
Peak Burst Power: 10 Bursts	28.00 dBm	34.00 dBm	31.76 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.13 Bit	✓

GSM 900, Channel 62, PCL 7, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Measurement Report



ROHDE & SCHWARZ

報告編號 : TG170932-01

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
Average Power: 10 Bursts	27.00 dBm	31.00 dBm	29.53 dBm	✓
Peak Burst Power: 10 Bursts	27.00 dBm	31.00 dBm	29.75 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.18 Bit	✓

GSM 900, Channel 62, PCL 8, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Average Power: 10 Bursts	24.00 dBm	30.00 dBm	27.53 dBm	✓
Peak Burst Power: 10 Bursts	24.00 dBm	30.00 dBm	27.72 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.22 Bit	✓

GSM 900, Channel 62, PCL 9, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Average Power: 10 Bursts	22.00 dBm	28.00 dBm	25.49 dBm	✓
Peak Burst Power: 10 Bursts	22.00 dBm	28.00 dBm	25.65 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.29 Bit	✓

GSM 900, Channel 62, PCL 10, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Average Power: 10 Bursts	20.00 dBm	26.00 dBm	22.71 dBm	✓
Peak Burst Power: 10 Bursts	20.00 dBm	26.00 dBm	22.86 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.09 Bit	✓

GSM 900, Channel 62, PCL 11, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Average Power: 10 Bursts	18.00 dBm	24.00 dBm	20.77 dBm	✓
Peak Burst Power: 10 Bursts	18.00 dBm	24.00 dBm	20.90 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.14 Bit	✓

GSM 900, Channel 62, PCL 12, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Average Power: 10 Bursts	16.00 dBm	22.00 dBm	18.75 dBm	✓
Peak Burst Power: 10 Bursts	16.00 dBm	22.00 dBm	18.89 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.20 Bit	✓

GSM 900, Channel 62, PCL 13, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Average Power: 10 Bursts	14.00 dBm	20.00 dBm	16.70 dBm	✓
Peak Burst Power: 10 Bursts	14.00 dBm	20.00 dBm	16.85 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.26 Bit	✓

GSM 900, Channel 62, PCL 14, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Average Power: 10 Bursts	12.00 dBm	18.00 dBm	14.67 dBm	✓
Peak Burst Power: 10 Bursts	12.00 dBm	18.00 dBm	14.84 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.07 Bit	✓

Measurement Report



ROHDE & SCHWARZ

報告編號 : TG170932-01

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
GSM 900, Channel 62, PCL 15, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3				
Decoding for modulation: Standard, BER Synch time: 0.20 s				
Average Power: 10 Bursts	10.00 dBm	16.00 dBm	12.61 dBm	✓
Peak Burst Power: 10 Bursts	10.00 dBm	16.00 dBm	12.75 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.14 Bit	✓
GSM 900, Channel 62, PCL 16, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3				
Decoding for modulation: Standard, BER Synch time: 0.20 s				
Average Power: 10 Bursts	6.00 dBm	16.00 dBm	10.63 dBm	✓
Peak Burst Power: 10 Bursts	6.00 dBm	16.00 dBm	10.78 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.21 Bit	✓
GSM 900, Channel 62, PCL 17, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3				
Decoding for modulation: Standard, BER Synch time: 0.20 s				
Average Power: 10 Bursts	4.00 dBm	14.00 dBm	8.52 dBm	✓
Peak Burst Power: 10 Bursts	4.00 dBm	14.00 dBm	8.74 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.26 Bit	✓
GSM 900, Channel 62, PCL 18, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3				
Decoding for modulation: Standard, BER Synch time: 0.20 s				
Average Power: 10 Bursts	2.00 dBm	12.00 dBm	6.46 dBm	✓
Peak Burst Power: 10 Bursts	2.00 dBm	12.00 dBm	6.67 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.08 Bit	✓
GSM 900, Channel 62, PCL 19, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3				
Decoding for modulation: Standard, BER Synch time: 0.20 s				
Average Power: 10 Bursts	0.00 dBm	10.00 dBm	4.32 dBm	✓
Peak Burst Power: 10 Bursts	0.00 dBm	10.00 dBm	4.50 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.12 Bit	✓
Phase Error Peak: 10 Bursts	-20.00 ?	20.00 ?	1.47 ?	✓
Phase Error RMS: 10 Bursts		5.00 ?	0.49 ?	✓
Frequency Error: 10 Bursts	-90.00 Hz	90.00 Hz	13.11 Hz	✓
GSM 900, Channel 124, PCL 5, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3				
Decoding for modulation: Standard, BER Synch time: 0.20 s				
Average Power: 10 Bursts	31.00 dBm	35.00 dBm	31.59 dBm	✓
Peak Burst Power: 10 Bursts	31.00 dBm	35.00 dBm	31.82 dBm	✓
Power Time Template: 10 Bursts			passed	✓
Timing Error: 10 Bursts	-2.00 Bit	2.00 Bit	0.23 Bit	✓
Phase Error Peak: 10 Bursts	-20.00 ?	20.00 ?	1.22 ?	✓
Phase Error RMS: 10 Bursts		5.00 ?	0.42 ?	✓
Frequency Error: 10 Bursts	-90.00 Hz	90.00 Hz	8.27 Hz	✓
GSM 900, Channel 124, PCL 19, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3				
Decoding for modulation: Standard, BER Synch time: 0.20 s				
Phase Error Peak: 10 Bursts	-20.00 ?	20.00 ?	1.25 ?	✓
Phase Error RMS: 10 Bursts		5.00 ?	0.44 ?	✓
Frequency Error: 10 Bursts	-90.00 Hz	90.00 Hz	5.75 Hz	✓

Measurement Report



ROHDE & SCHWARZ

報告編號 : TG170932-01

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
Call Release Test:			passed	✓

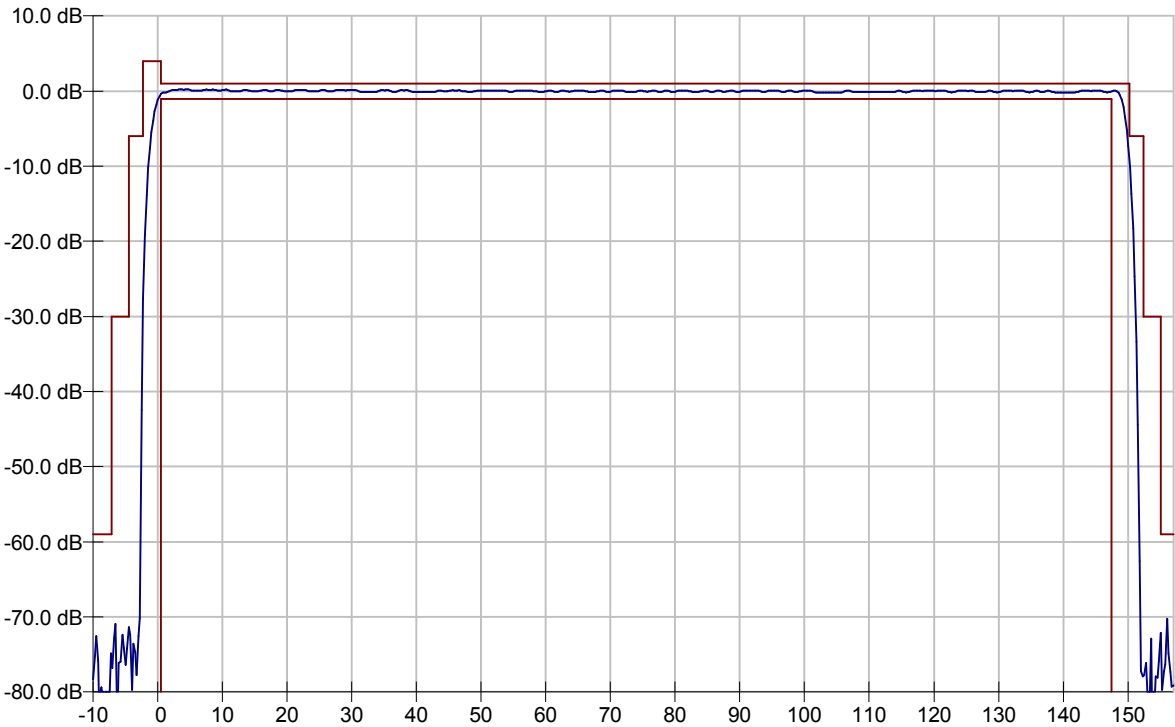
MS Serial Number: 35494397-003905-6

Result:
(Execution Time: 29.3 Seconds)

89 Tests passed / 0 Tests failed

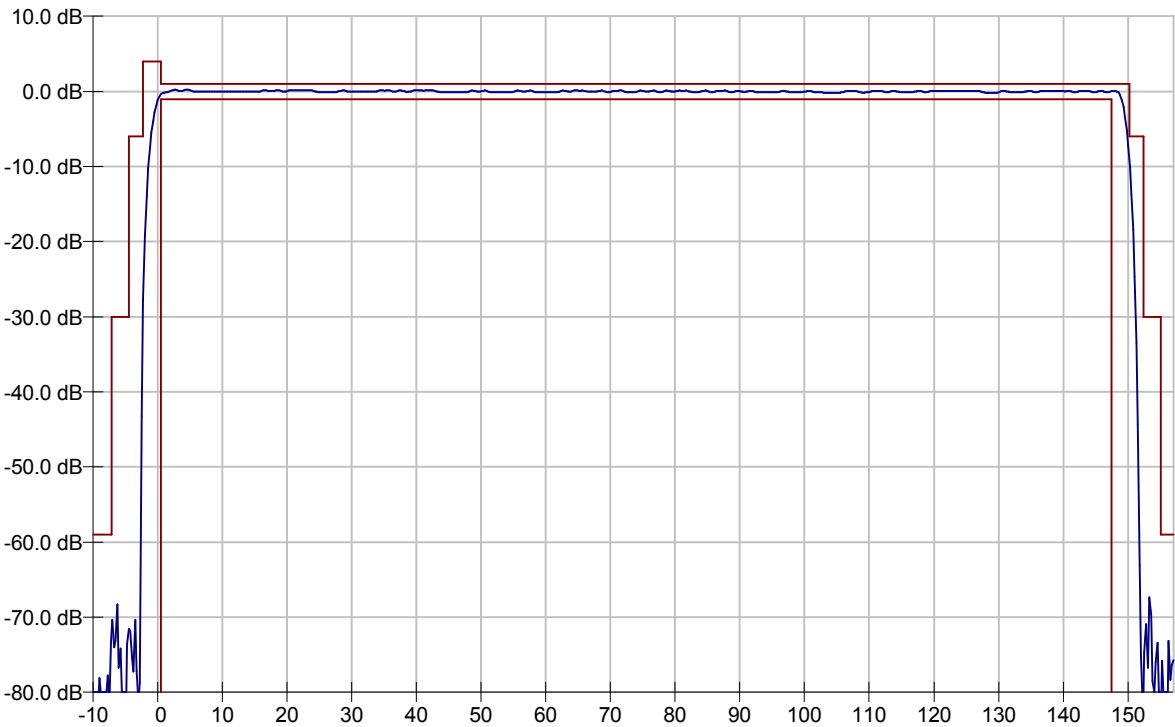
Annex: Power Graphic

PCL: 5, Channel: 1, Reference Power: 0.0 dBm



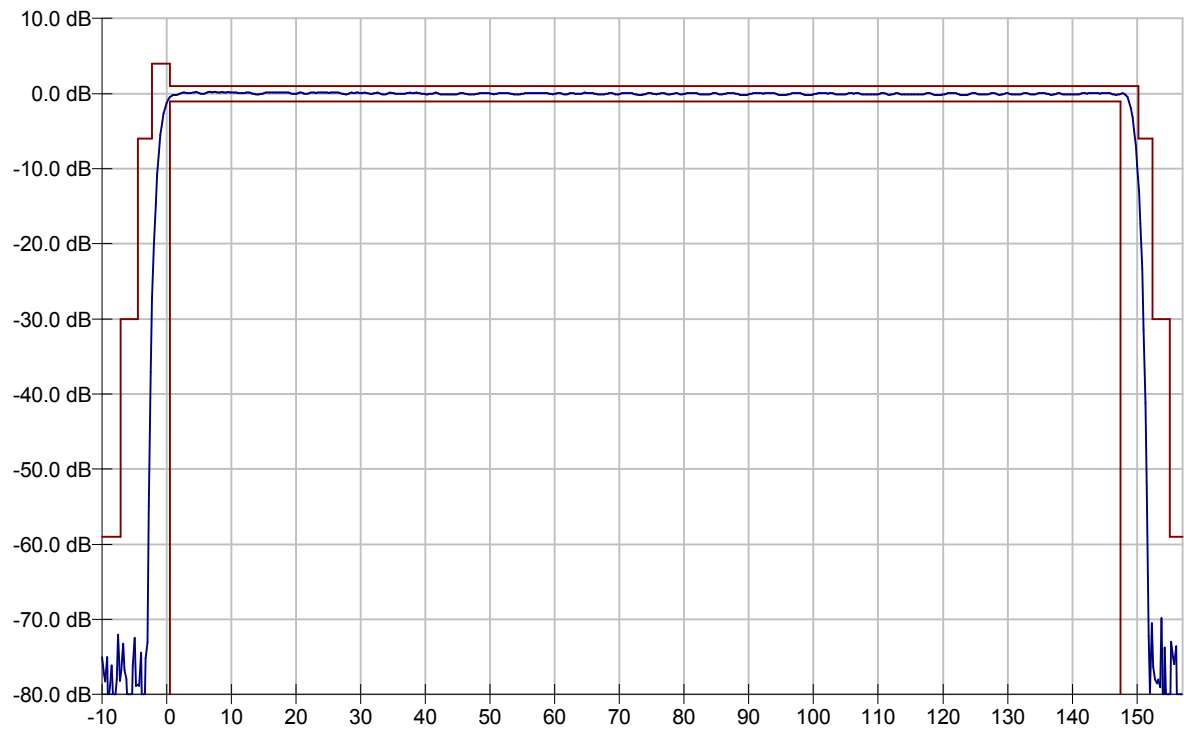
Annex: Power Graphic

PCL: 5, Channel: 62, Reference Power: 0.0 dBm



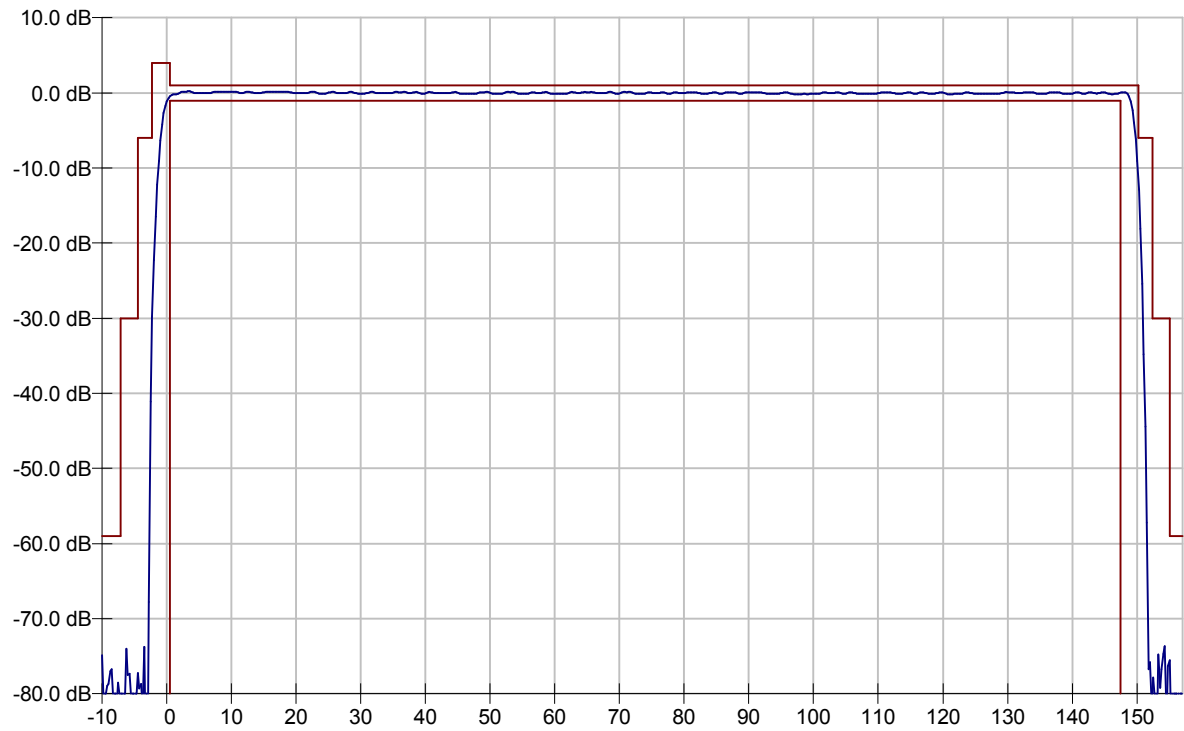
Annex: Power Graphic

PCL: 6, Channel: 62, Reference Power: 0.0 dBm



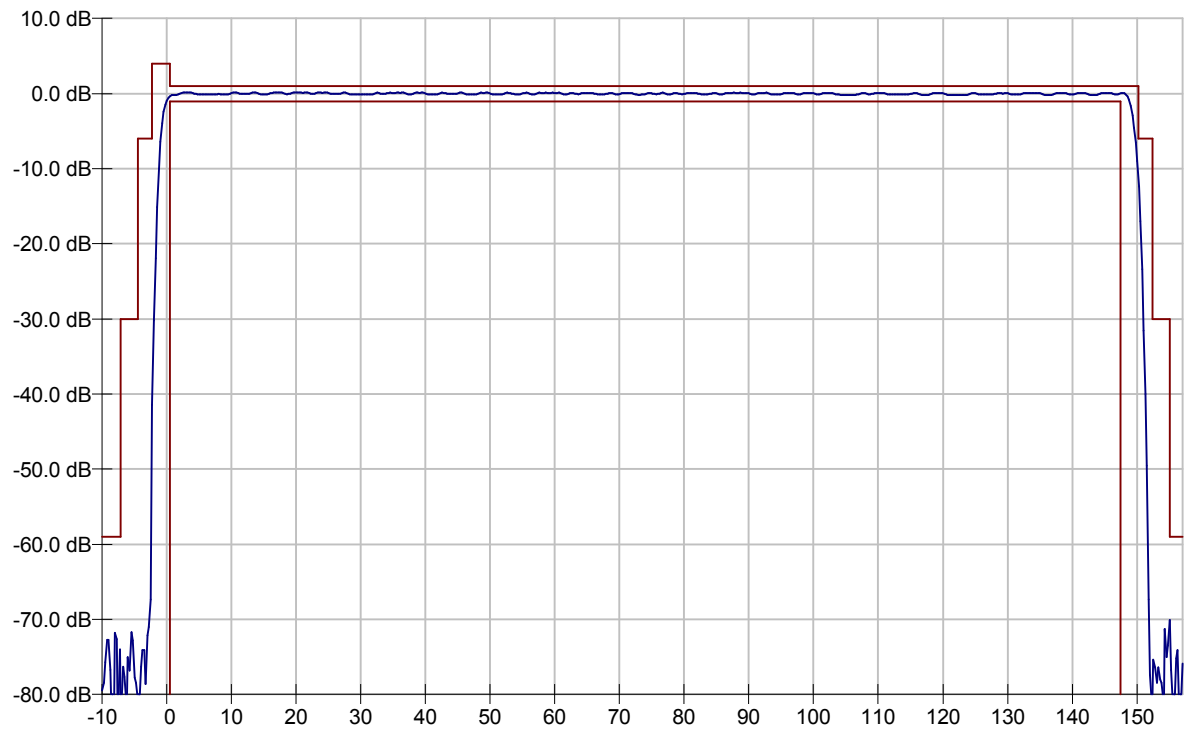
Annex: Power Graphic

PCL: 7, Channel: 62, Reference Power: 0.0 dBm



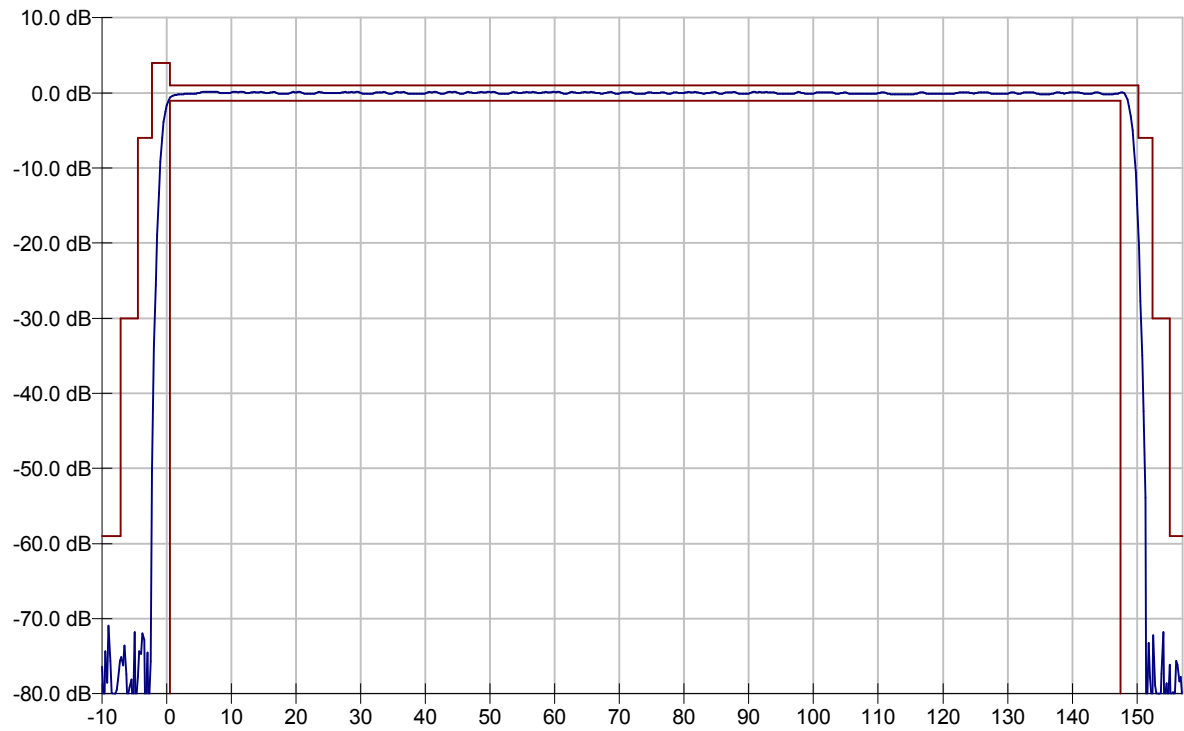
Annex: Power Graphic

PCL: 8, Channel: 62, Reference Power: 0.0 dBm



Annex: Power Graphic

PCL: 9, Channel: 62, Reference Power: 0.0 dBm



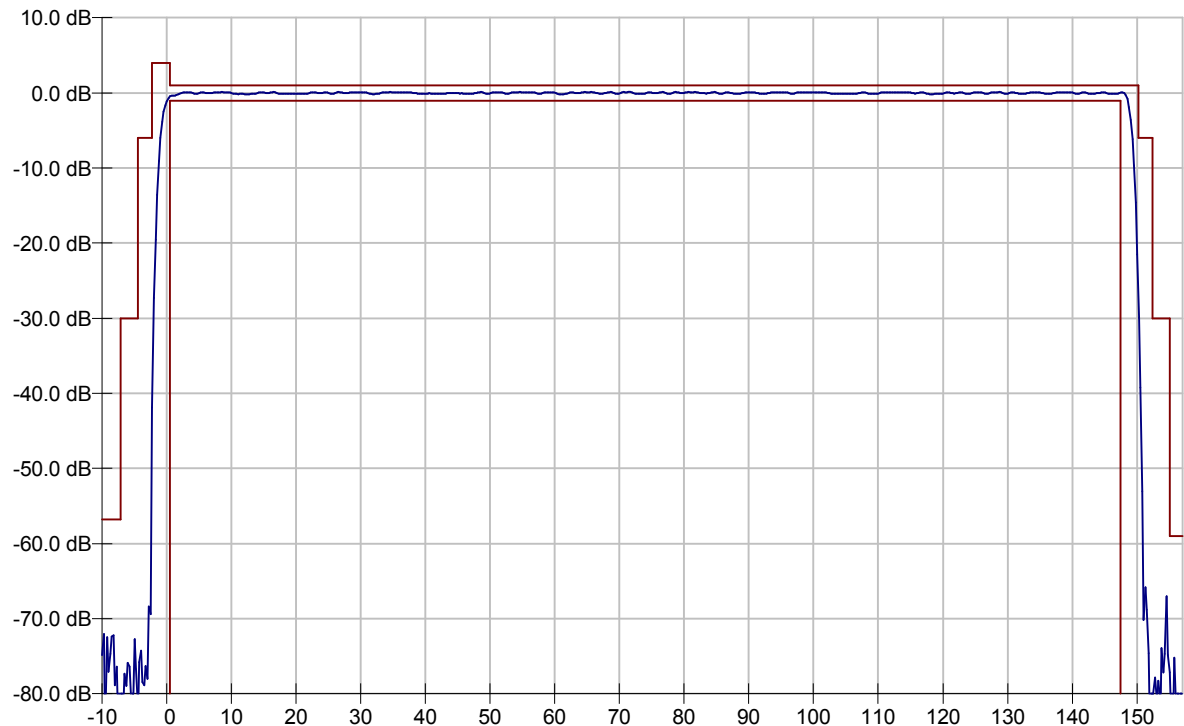
Annex: Power Graphic

PCL: 10, Channel: 62, Reference Power: 0.0 dBm



Annex: Power Graphic

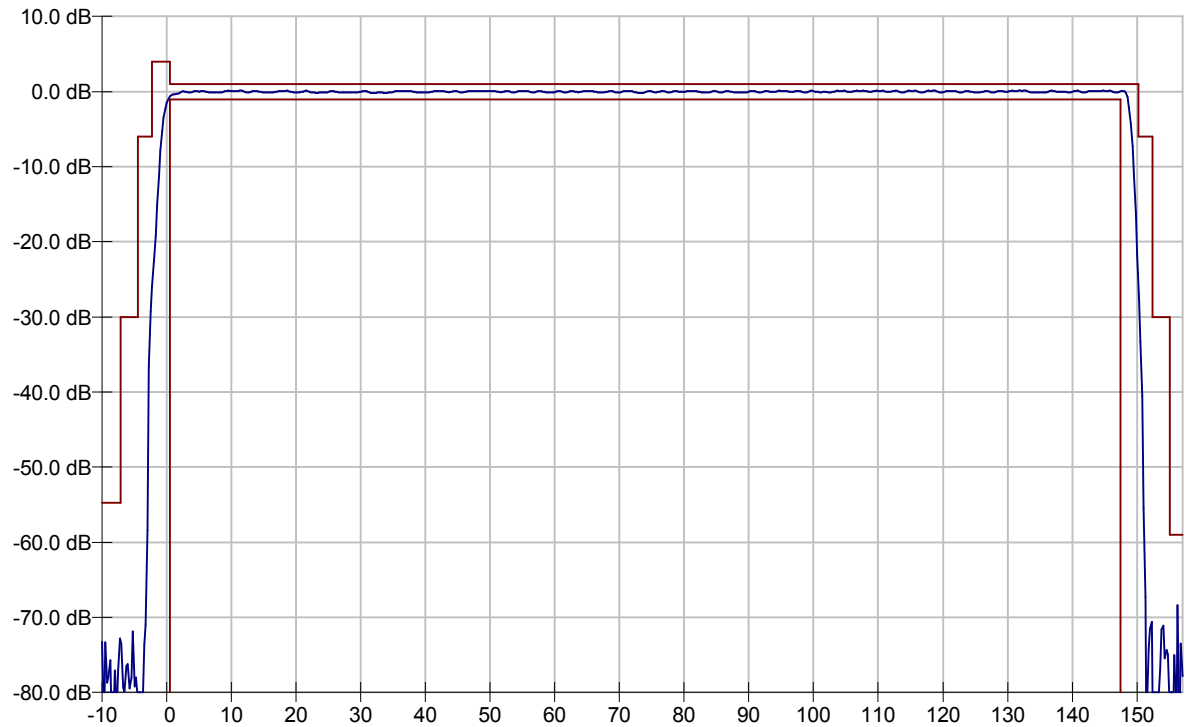
PCL: 11, Channel: 62, Reference Power: 0.0 dBm





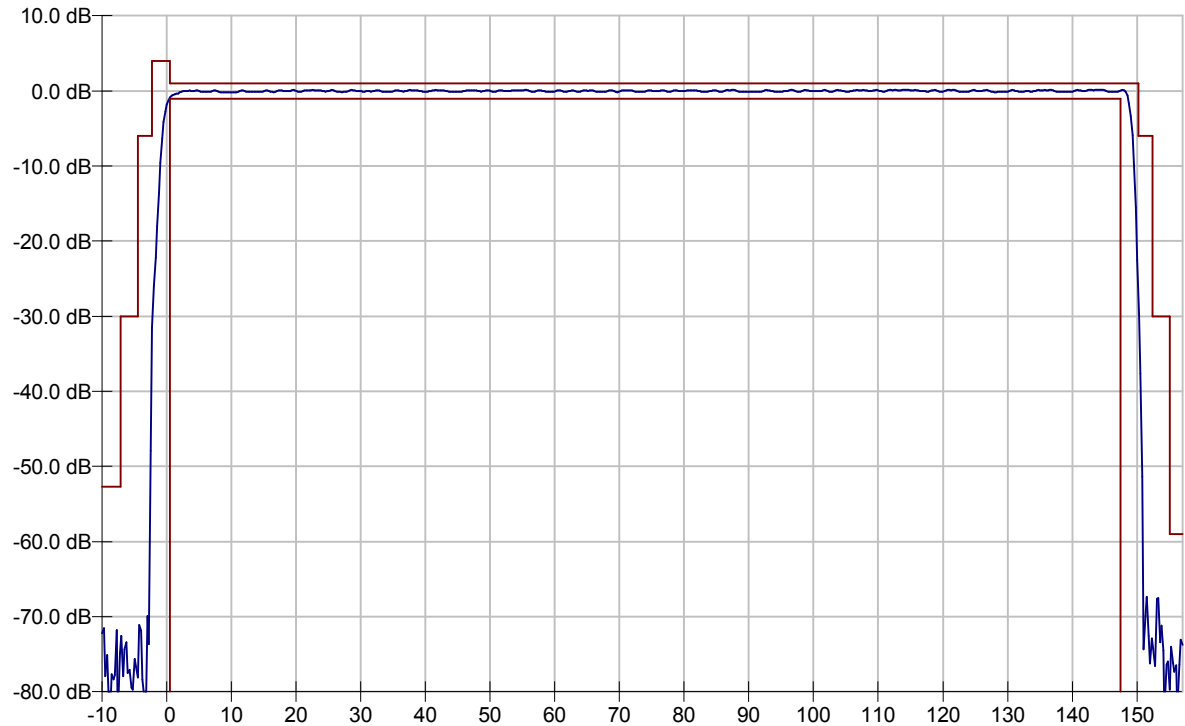
Annex: Power Graphic

PCL: 12, Channel: 62, Reference Power: 0.0 dBm



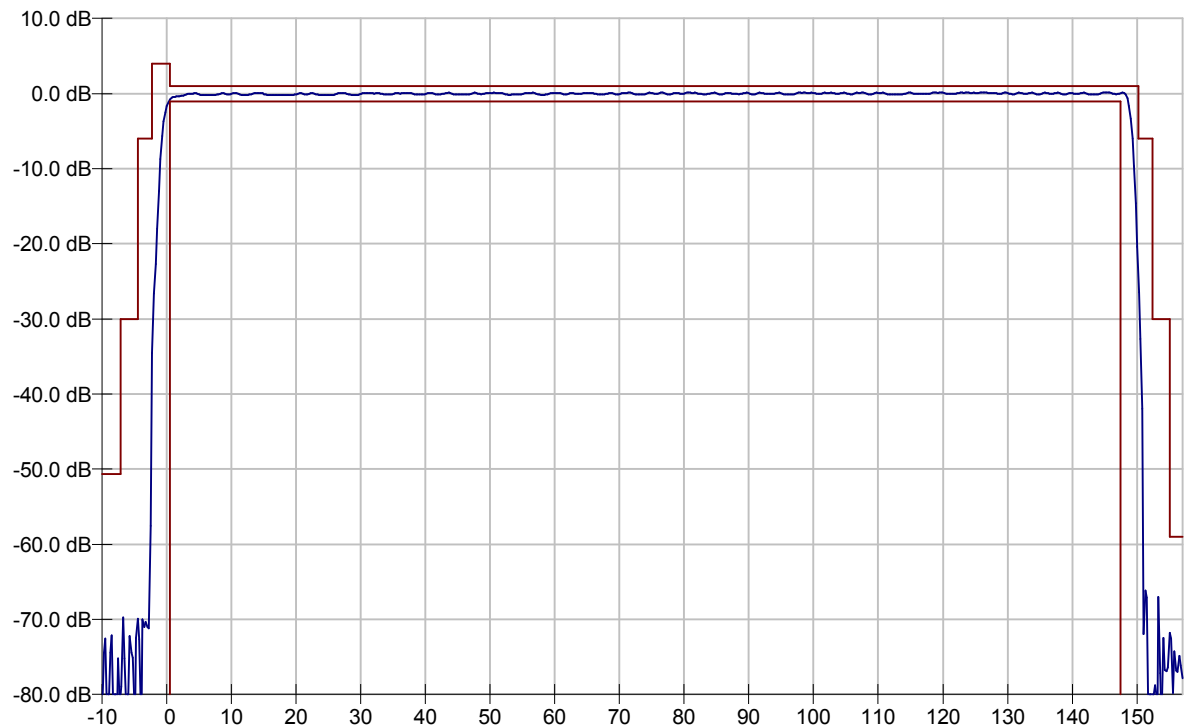
Annex: Power Graphic

PCL: 13, Channel: 62, Reference Power: 0.0 dBm



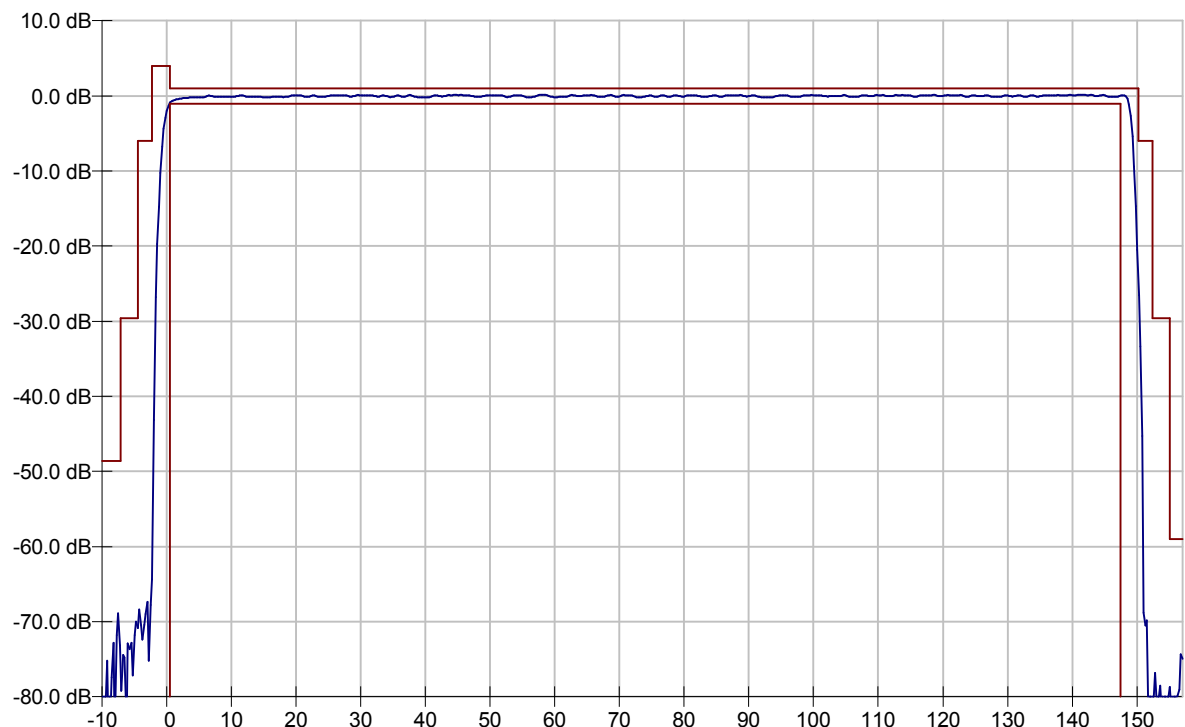
Annex: Power Graphic

PCL: 14, Channel: 62, Reference Power: 0.0 dBm



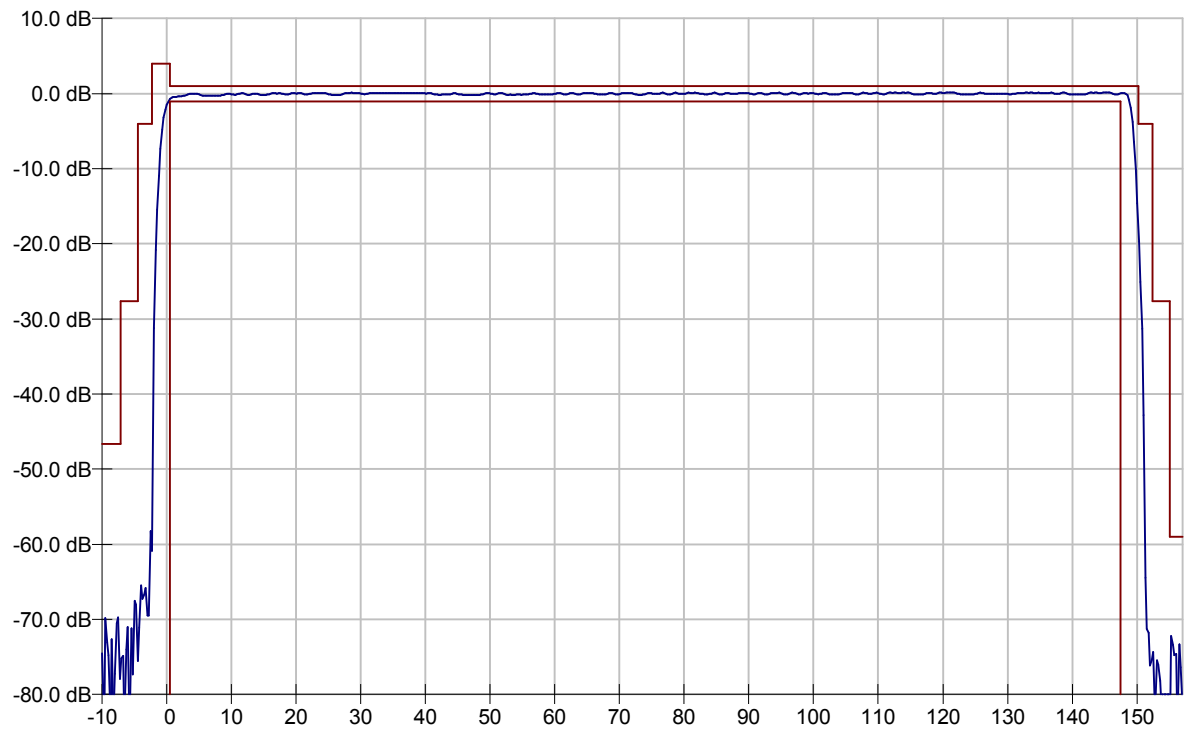
Annex: Power Graphic

PCL: 15, Channel: 62, Reference Power: 0.0 dBm



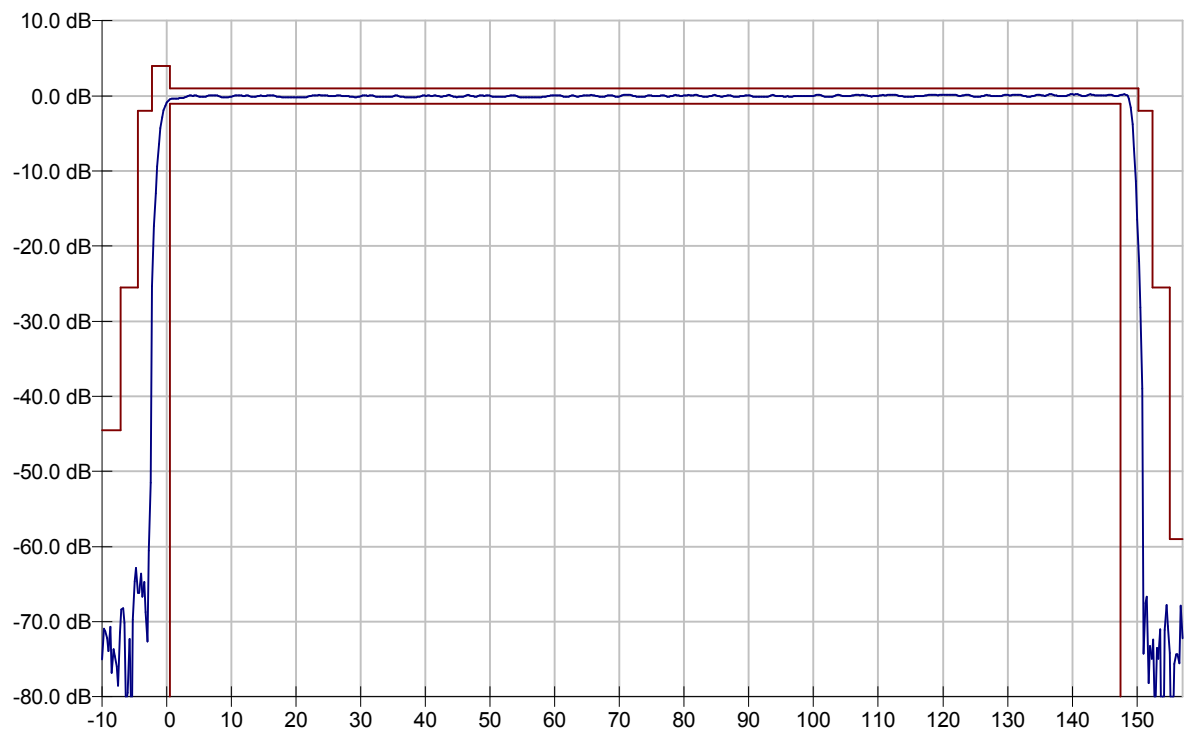
Annex: Power Graphic

PCL: 16, Channel: 62, Reference Power: 0.0 dBm



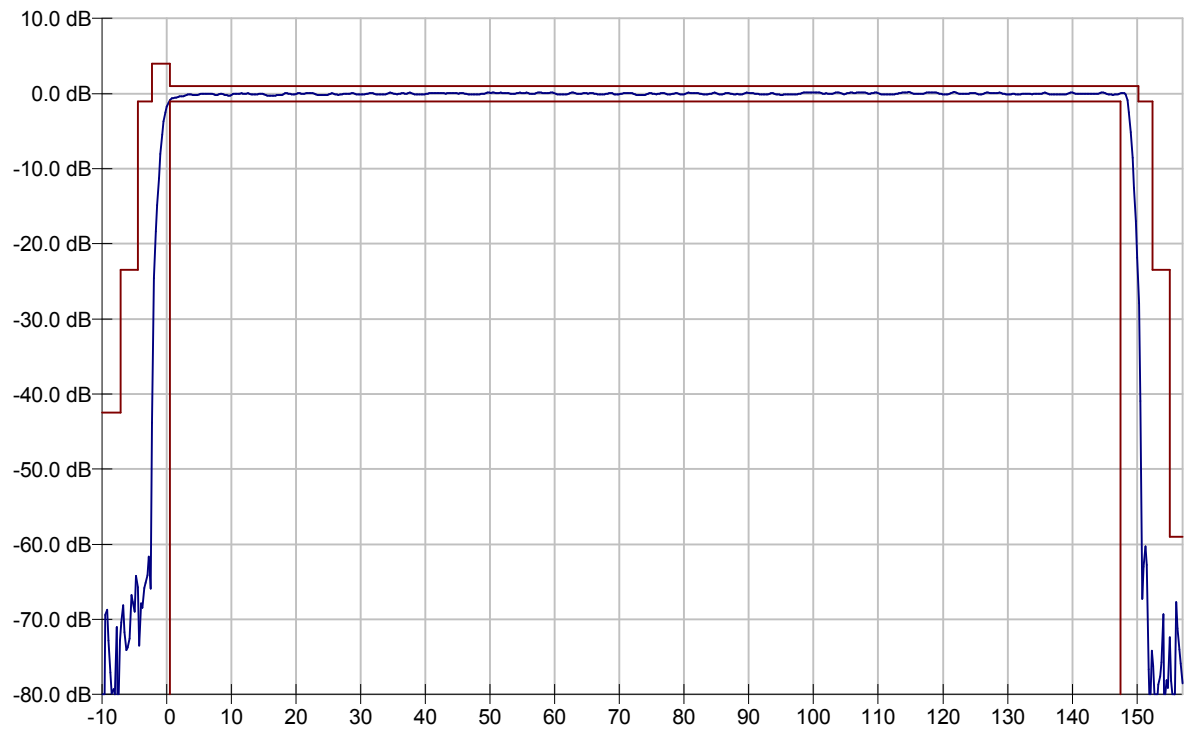
Annex: Power Graphic

PCL: 17, Channel: 62, Reference Power: 0.0 dBm



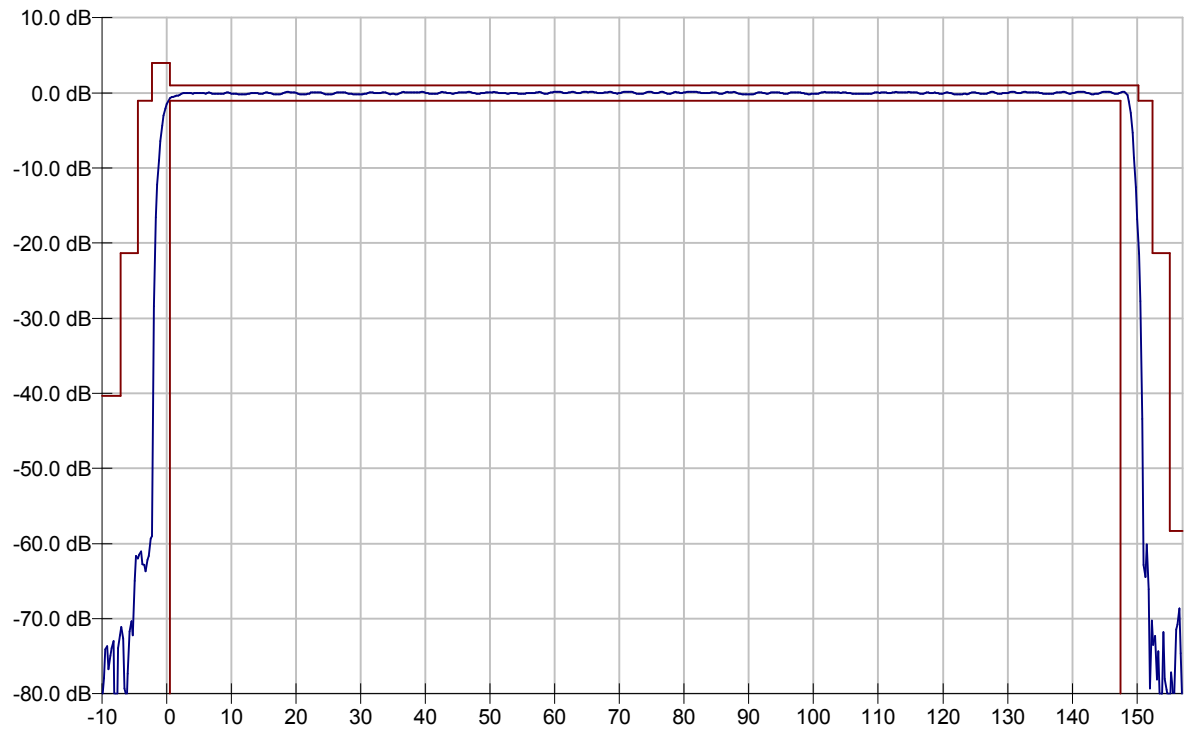
Annex: Power Graphic

PCL: 18, Channel: 62, Reference Power: 0.0 dBm



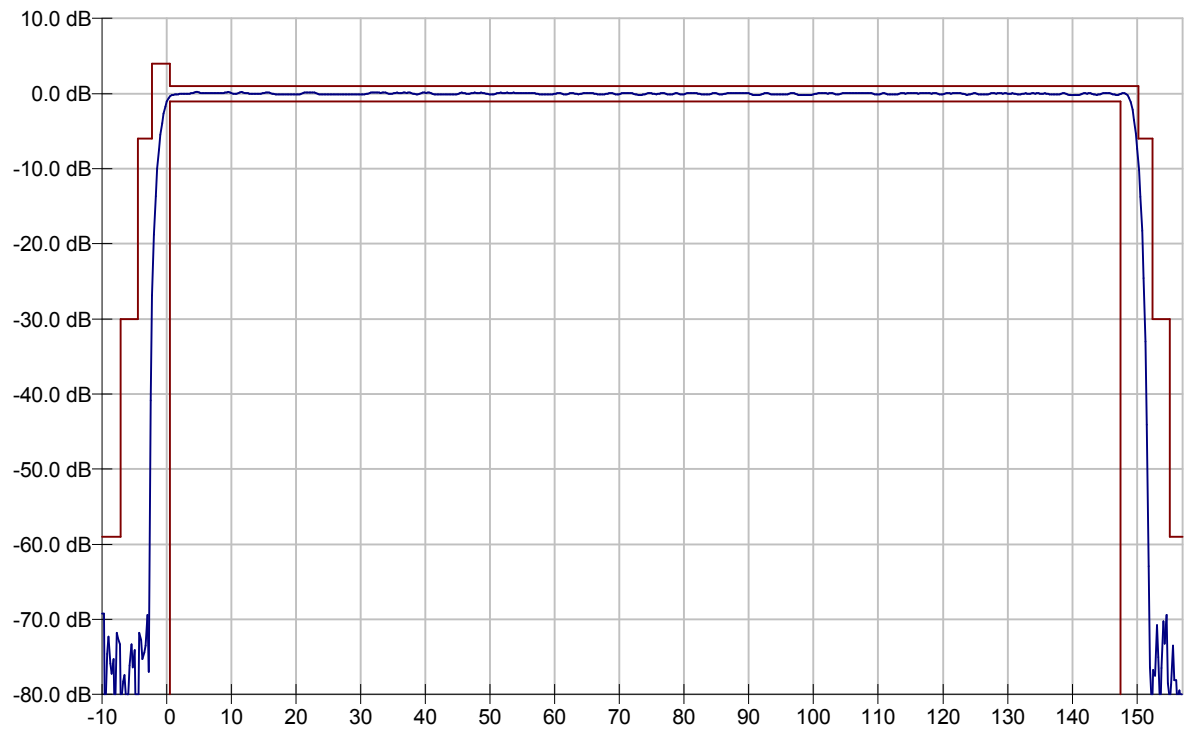
Annex: Power Graphic

PCL: 19, Channel: 62, Reference Power: 0.0 dBm



Annex: Power Graphic

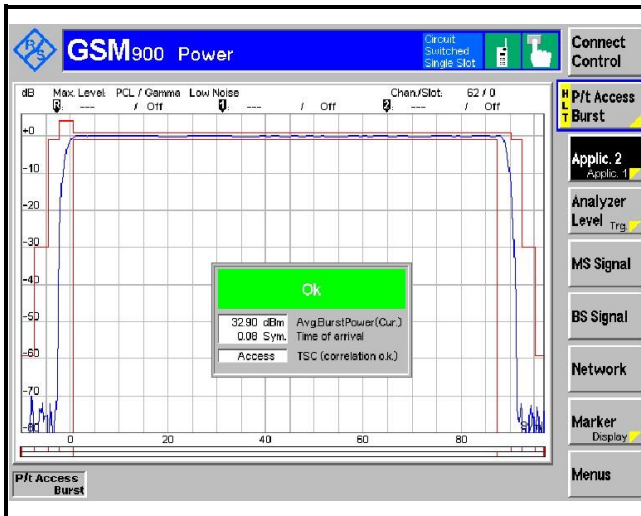
PCL: 5, Channel: 124, Reference Power: 0.0 dBm



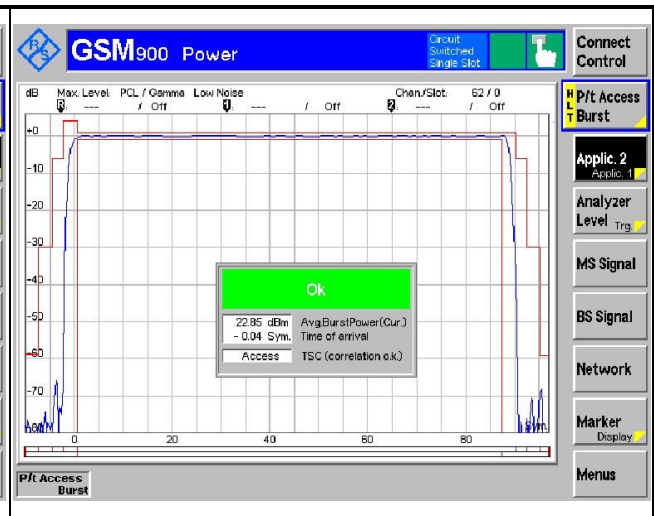


➤ 擷取叢訊功率

NTNV, CH62, PCL 5 擷取叢訊發射機功率圖



NTNV, CH62, PCL 10 擷取叢訊發射機功率圖





附錄 B. RF 輸出頻譜

Measurement Report



報告編號 : TG170932-01

ROHDE & SCHWARZ

Operator: noname

2021年8月9日 下午 16:34:53

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

Options: 0,B17,B21Var14,B52Var14,B54Var14,B56Var54,B66,COPROC_FULLL,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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Network: GSM 900, BCCH Channel/Level: 62/-60.0 dBm, TCH Channel: 62, TCH Level (dBm): -60.0, Support GSM, PCL: 5

(Main) Timeslot: 3, Attenuation (In/Out): 5.3/5.3 dB, Slot Mode: Single Slot, Bitstream: PR9, AuxTX: Off

Traffic Mode: Full Rate V1

IMSI: 1. 1.0123456789,Serial: 35494397-003905-6, Revision: PH2P, Number: 111, Traffic: NAN, Power Class: 4

Call from Mobile:			passed	✓
Keypad Test: (Ref.: 111)			passed	✓

GSM 900, Channel 62, PCL 5, Timeslot: 3, BS RF Level -102.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB

Spectrum due to Switching: 20 Bursts			passed	✓
Spectrum Switching: @ - 1.8 MHz			-43.65 dBm	
Spectrum Switching: @ - 1.2 MHz			-43.52 dBm	
Spectrum Switching: @ - 0.6 MHz			-40.11 dBm	
Spectrum Switching: @ - 0.4 MHz			-35.43 dBm	
Spectrum Switching: @ 0.4 MHz			-32.28 dBm	
Spectrum Switching: @ 0.6 MHz			-39.79 dBm	
Spectrum Switching: @ 1.2 MHz			-43.29 dBm	
Spectrum Switching: @ 1.8 MHz			-44.70 dBm	
Spectrum due to Modulation: 50 Bursts			passed	✓
Spectrum Modulation: @ - 1.8 MHz			-80.89 dBc	
Spectrum Modulation: @ - 1.6 MHz			-80.90 dBc	
Spectrum Modulation: @ - 1.4 MHz			-80.16 dBc	
Spectrum Modulation: @ - 1.2 MHz			-79.98 dBc	
Spectrum Modulation: @ - 1.0 MHz			-78.97 dBc	
Spectrum Modulation: @ - 0.8 MHz			-78.45 dBc	
Spectrum Modulation: @ - 0.6 MHz			-76.85 dBc	
Spectrum Modulation: @ - 0.4 MHz			-70.63 dBc	
Spectrum Modulation: @ -0.25 MHz			-40.38 dBc	
Spectrum Modulation: @ - 0.2 MHz			-35.74 dBc	
Spectrum Modulation: @ -0.1 MHz			-8.46 dBc	
Spectrum Reference Power: @ 0 MHz			24.41 dBm	
Spectrum Modulation: @ 0.1 MHz			-8.62 dBc	
Spectrum Modulation: @ 0.2 MHz			-35.64 dBc	
Spectrum Modulation: @ 0.25 MHz			-40.74 dBc	
Spectrum Modulation: @ 0.4 MHz			-71.13 dBc	
Spectrum Modulation: @ 0.6 MHz			-76.86 dBc	
Spectrum Modulation: @ 0.8 MHz			-77.75 dBc	
Spectrum Modulation: @ 1.0 MHz			-78.80 dBc	
Spectrum Modulation: @ 1.2 MHz			-79.41 dBc	
Spectrum Modulation: @ 1.4 MHz			-79.80 dBc	
Spectrum Modulation: @ 1.6 MHz			-79.06 dBc	
Spectrum Modulation: @ 1.8 MHz			-80.29 dBc	

Measurement Report



ROHDE & SCHWARZ

報告編號 : TG170932-01

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
GSM 900, Channel 1, PCL 5, Timeslot: 3, BS RF Level -102.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB				
Spectrum due to Switching: 20 Bursts			passed	✓
Spectrum Switching: @ - 1.8 MHz			-45.92 dBm	
Spectrum Switching: @ - 1.2 MHz			-42.51 dBm	
Spectrum Switching: @ - 0.6 MHz			-39.69 dBm	
Spectrum Switching: @ - 0.4 MHz			-33.88 dBm	
Spectrum Switching: @ 0.4 MHz			-33.04 dBm	
Spectrum Switching: @ 0.6 MHz			-39.55 dBm	
Spectrum Switching: @ 1.2 MHz			-42.23 dBm	
Spectrum Switching: @ 1.8 MHz			-45.94 dBm	
Spectrum due to Modulation: 50 Bursts			passed	✓
Spectrum Modulation: @ - 1.8 MHz			-81.01 dBc	
Spectrum Modulation: @ - 1.6 MHz			-80.38 dBc	
Spectrum Modulation: @ - 1.4 MHz			-79.37 dBc	
Spectrum Modulation: @ - 1.2 MHz			-79.14 dBc	
Spectrum Modulation: @ - 1.0 MHz			-78.69 dBc	
Spectrum Modulation: @ - 0.8 MHz			-77.95 dBc	
Spectrum Modulation: @ - 0.6 MHz			-76.60 dBc	
Spectrum Modulation: @ - 0.4 MHz			-70.32 dBc	
Spectrum Modulation: @ -0.25 MHz			-40.37 dBc	
Spectrum Modulation: @ - 0.2 MHz			-35.43 dBc	
Spectrum Modulation: @ -0.1 MHz			-7.73 dBc	
Spectrum Reference Power: @ 0 MHz			24.03 dBm	
Spectrum Modulation: @ 0.1 MHz			-8.31 dBc	
Spectrum Modulation: @ 0.2 MHz			-35.78 dBc	
Spectrum Modulation: @ 0.25 MHz			-40.29 dBc	
Spectrum Modulation: @ 0.4 MHz			-71.18 dBc	
Spectrum Modulation: @ 0.6 MHz			-76.54 dBc	
Spectrum Modulation: @ 0.8 MHz			-77.84 dBc	
Spectrum Modulation: @ 1.0 MHz			-78.20 dBc	
Spectrum Modulation: @ 1.2 MHz			-78.61 dBc	
Spectrum Modulation: @ 1.4 MHz			-79.58 dBc	
Spectrum Modulation: @ 1.6 MHz			-79.50 dBc	
Spectrum Modulation: @ 1.8 MHz			-80.62 dBc	
GSM 900, Channel 124, PCL 5, Timeslot: 3, BS RF Level -102.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB				
Spectrum due to Switching: 20 Bursts			passed	✓
Spectrum Switching: @ - 1.8 MHz			-44.93 dBm	
Spectrum Switching: @ - 1.2 MHz			-43.61 dBm	
Spectrum Switching: @ - 0.6 MHz			-40.75 dBm	
Spectrum Switching: @ - 0.4 MHz			-35.59 dBm	
Spectrum Switching: @ 0.4 MHz			-32.43 dBm	
Spectrum Switching: @ 0.6 MHz			-40.32 dBm	
Spectrum Switching: @ 1.2 MHz			-43.45 dBm	
Spectrum Switching: @ 1.8 MHz			-43.53 dBm	

Measurement Report



ROHDE & SCHWARZ

報告編號 : TG170932-01

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
Spectrum due to Modulation: 50 Bursts			passed	✓
Spectrum Modulation: @ - 1.8 MHz			-80.74 dBc	
Spectrum Modulation: @ - 1.6 MHz			-80.37 dBc	
Spectrum Modulation: @ - 1.4 MHz			-79.85 dBc	
Spectrum Modulation: @ - 1.2 MHz			-78.94 dBc	
Spectrum Modulation: @ - 1.0 MHz			-78.90 dBc	
Spectrum Modulation: @ - 0.8 MHz			-78.10 dBc	
Spectrum Modulation: @ - 0.6 MHz			-76.79 dBc	
Spectrum Modulation: @ - 0.4 MHz			-70.65 dBc	
Spectrum Modulation: @ -0.25 MHz			-40.70 dBc	
Spectrum Modulation: @ - 0.2 MHz			-36.76 dBc	
Spectrum Modulation: @ -0.1 MHz			-9.04 dBc	
Spectrum Reference Power: @ 0 MHz			24.12 dBm	
Spectrum Modulation: @ 0.1 MHz			-9.24 dBc	
Spectrum Modulation: @ 0.2 MHz			-36.25 dBc	
Spectrum Modulation: @ 0.25 MHz			-41.40 dBc	
Spectrum Modulation: @ 0.4 MHz			-70.98 dBc	
Spectrum Modulation: @ 0.6 MHz			-76.73 dBc	
Spectrum Modulation: @ 0.8 MHz			-77.49 dBc	
Spectrum Modulation: @ 1.0 MHz			-78.10 dBc	
Spectrum Modulation: @ 1.2 MHz			-79.08 dBc	
Spectrum Modulation: @ 1.4 MHz			-79.44 dBc	
Spectrum Modulation: @ 1.6 MHz			-79.27 dBc	
Spectrum Modulation: @ 1.8 MHz			-79.68 dBc	

GSM 900, Channel 62, PCL 7, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Spectrum due to Switching: Reference Power: 21.3 dBm			passed	✓
Spectrum Switching: @ - 1.8 MHz			-50.12 dBm	
Spectrum Switching: @ - 1.2 MHz			-48.56 dBm	
Spectrum Switching: @ - 0.6 MHz			-41.56 dBm	
Spectrum Switching: @ - 0.4 MHz			-38.20 dBm	
Spectrum Switching: @ 0.4 MHz			-32.81 dBm	
Spectrum Switching: @ 0.6 MHz			-41.46 dBm	
Spectrum Switching: @ 1.2 MHz			-46.90 dBm	
Spectrum Switching: @ 1.8 MHz			-48.49 dBm	
Spectrum Switching: @ -1.40 MHz			-48.25 dBm	
Spectrum Switching: @ -0.80 MHz			-44.47 dBm	
Spectrum Switching: @ 0.80 MHz			-46.25 dBm	
Spectrum Switching: @ 1.40 MHz			-46.96 dBm	

Measurement Report



ROHDE & SCHWARZ

報告編號 : TG170932-01

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
Spectrum due to Modulation:			passed	✓
Spectrum Modulation: @ - 1.8 MHz			-80.58 dBc	
Spectrum Modulation: @ - 1.6 MHz			-81.13 dBc	
Spectrum Modulation: @ - 1.4 MHz			-80.32 dBc	
Spectrum Modulation: @ - 1.2 MHz			-80.24 dBc	
Spectrum Modulation: @ - 1.0 MHz			-77.44 dBc	
Spectrum Modulation: @ - 0.8 MHz			-77.17 dBc	
Spectrum Modulation: @ - 0.6 MHz			-76.48 dBc	
Spectrum Modulation: @ - 0.4 MHz			-70.55 dBc	
Spectrum Modulation: @ -0.25 MHz			-39.68 dBc	
Spectrum Modulation: @ - 0.2 MHz			-35.32 dBc	
Spectrum Modulation: @ -0.1 MHz			-8.56 dBc	
Spectrum Reference Power: @ 0 MHz			21.29 dBm	
Spectrum Modulation: @ 0.1 MHz			-8.06 dBc	
Spectrum Modulation: @ 0.2 MHz			-35.95 dBc	
Spectrum Modulation: @ 0.25 MHz			-39.82 dBc	
Spectrum Modulation: @ 0.4 MHz			-71.01 dBc	
Spectrum Modulation: @ 0.6 MHz			-76.31 dBc	
Spectrum Modulation: @ 0.8 MHz			-77.62 dBc	
Spectrum Modulation: @ 1.0 MHz			-78.29 dBc	
Spectrum Modulation: @ 1.2 MHz			-78.75 dBc	
Spectrum Modulation: @ 1.4 MHz			-79.31 dBc	
Spectrum Modulation: @ 1.6 MHz			-80.64 dBc	
Spectrum Modulation: @ 1.8 MHz			-80.12 dBc	
Spectrum Modulation: @ -1.40 MHz			-80.32 dBc	
Spectrum Modulation: @ -0.80 MHz			-77.17 dBc	
Spectrum Modulation: @ 0.80 MHz			-77.62 dBc	
Spectrum Modulation: @ 1.40 MHz			-79.31 dBc	

GSM 900, Channel 1, PCL 11, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Spectrum due to Switching: Reference Power: 12.5 dBm			passed	✓
Spectrum Switching: @ - 1.8 MHz			-57.09 dBm	
Spectrum Switching: @ - 1.2 MHz			-52.46 dBm	
Spectrum Switching: @ - 0.6 MHz			-44.64 dBm	
Spectrum Switching: @ - 0.4 MHz			-41.08 dBm	
Spectrum Switching: @ 0.4 MHz			-39.40 dBm	
Spectrum Switching: @ 0.6 MHz			-46.46 dBm	
Spectrum Switching: @ 1.2 MHz			-52.86 dBm	
Spectrum Switching: @ 1.8 MHz			-56.08 dBm	
Spectrum Switching: @ -1.60 MHz			-54.76 dBm	
Spectrum Switching: @ -1.40 MHz			-53.59 dBm	
Spectrum Switching: @ -1.00 MHz			-49.63 dBm	
Spectrum Switching: @ -0.80 MHz			-47.39 dBm	
Spectrum Switching: @ 0.80 MHz			-50.86 dBm	
Spectrum Switching: @ 1.00 MHz			-53.65 dBm	
Spectrum Switching: @ 1.40 MHz			-55.50 dBm	
Spectrum Switching: @ 1.60 MHz			-53.17 dBm	

Measurement Report



ROHDE & SCHWARZ

報告編號 : TG170932-01

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
Spectrum due to Modulation:			passed	✓
Spectrum Modulation: @ - 1.8 MHz			-80.05 dBc	
Spectrum Modulation: @ - 1.6 MHz			-79.00 dBc	
Spectrum Modulation: @ - 1.4 MHz			-78.66 dBc	
Spectrum Modulation: @ - 1.2 MHz			-78.54 dBc	
Spectrum Modulation: @ - 1.0 MHz			-76.75 dBc	
Spectrum Modulation: @ - 0.8 MHz			-77.25 dBc	
Spectrum Modulation: @ - 0.6 MHz			-74.25 dBc	
Spectrum Modulation: @ - 0.4 MHz			-69.68 dBc	
Spectrum Modulation: @ -0.25 MHz			-40.89 dBc	
Spectrum Modulation: @ - 0.2 MHz			-36.17 dBc	
Spectrum Modulation: @ -0.1 MHz			-7.44 dBc	
Spectrum Reference Power: @ 0 MHz			12.46 dBm	
Spectrum Modulation: @ 0.1 MHz			-8.42 dBc	
Spectrum Modulation: @ 0.2 MHz			-35.27 dBc	
Spectrum Modulation: @ 0.25 MHz			-42.21 dBc	
Spectrum Modulation: @ 0.4 MHz			-70.17 dBc	
Spectrum Modulation: @ 0.6 MHz			-74.98 dBc	
Spectrum Modulation: @ 0.8 MHz			-76.39 dBc	
Spectrum Modulation: @ 1.0 MHz			-78.02 dBc	
Spectrum Modulation: @ 1.2 MHz			-78.45 dBc	
Spectrum Modulation: @ 1.4 MHz			-79.18 dBc	
Spectrum Modulation: @ 1.6 MHz			-78.66 dBc	
Spectrum Modulation: @ 1.8 MHz			-79.89 dBc	
Spectrum Modulation: @ -1.60 MHz			-79.00 dBc	
Spectrum Modulation: @ -1.40 MHz			-78.66 dBc	
Spectrum Modulation: @ -1.00 MHz			-76.75 dBc	
Spectrum Modulation: @ -0.80 MHz			-77.25 dBc	
Spectrum Modulation: @ 0.80 MHz			-76.39 dBc	
Spectrum Modulation: @ 1.00 MHz			-78.02 dBc	
Spectrum Modulation: @ 1.40 MHz			-79.18 dBc	
Spectrum Modulation: @ 1.60 MHz			-78.66 dBc	

GSM 900, Channel 62, PCL 11, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Measurement Report



ROHDE & SCHWARZ

報告編號 : TG170932-01

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
Spectrum due to Switching: Reference Power: 12.2 dBm			passed	✓
Spectrum Switching: @ - 1.8 MHz			-56.23 dBm	
Spectrum Switching: @ - 1.2 MHz			-51.82 dBm	
Spectrum Switching: @ - 0.6 MHz			-45.76 dBm	
Spectrum Switching: @ - 0.4 MHz			-42.19 dBm	
Spectrum Switching: @ 0.4 MHz			-39.31 dBm	
Spectrum Switching: @ 0.6 MHz			-46.89 dBm	
Spectrum Switching: @ 1.2 MHz			-52.79 dBm	
Spectrum Switching: @ 1.8 MHz			-55.88 dBm	
Spectrum Switching: @ -1.60 MHz			-55.36 dBm	
Spectrum Switching: @ -1.40 MHz			-53.45 dBm	
Spectrum Switching: @ -1.00 MHz			-49.27 dBm	
Spectrum Switching: @ -0.80 MHz			-46.66 dBm	
Spectrum Switching: @ 0.80 MHz			-49.86 dBm	
Spectrum Switching: @ 1.00 MHz			-53.95 dBm	
Spectrum Switching: @ 1.40 MHz			-55.37 dBm	
Spectrum Switching: @ 1.60 MHz			-56.01 dBm	

Measurement Report



ROHDE & SCHWARZ

報告編號 : TG170932-01

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
Spectrum due to Modulation:			passed	✓
Spectrum Modulation: @ - 1.8 MHz			-80.34 dBc	
Spectrum Modulation: @ - 1.6 MHz			-79.26 dBc	
Spectrum Modulation: @ - 1.4 MHz			-79.44 dBc	
Spectrum Modulation: @ - 1.2 MHz			-78.25 dBc	
Spectrum Modulation: @ - 1.0 MHz			-77.21 dBc	
Spectrum Modulation: @ - 0.8 MHz			-75.06 dBc	
Spectrum Modulation: @ - 0.6 MHz			-73.67 dBc	
Spectrum Modulation: @ - 0.4 MHz			-68.89 dBc	
Spectrum Modulation: @ -0.25 MHz			-40.29 dBc	
Spectrum Modulation: @ - 0.2 MHz			-36.29 dBc	
Spectrum Modulation: @ -0.1 MHz			-7.17 dBc	
Spectrum Reference Power: @ 0 MHz			12.20 dBm	
Spectrum Modulation: @ 0.1 MHz			-9.19 dBc	
Spectrum Modulation: @ 0.2 MHz			-36.19 dBc	
Spectrum Modulation: @ 0.25 MHz			-39.50 dBc	
Spectrum Modulation: @ 0.4 MHz			-70.81 dBc	
Spectrum Modulation: @ 0.6 MHz			-75.25 dBc	
Spectrum Modulation: @ 0.8 MHz			-77.42 dBc	
Spectrum Modulation: @ 1.0 MHz			-78.24 dBc	
Spectrum Modulation: @ 1.2 MHz			-77.91 dBc	
Spectrum Modulation: @ 1.4 MHz			-78.73 dBc	
Spectrum Modulation: @ 1.6 MHz			-78.38 dBc	
Spectrum Modulation: @ 1.8 MHz			-79.29 dBc	
Spectrum Modulation: @ -1.60 MHz			-79.26 dBc	
Spectrum Modulation: @ -1.40 MHz			-79.44 dBc	
Spectrum Modulation: @ -1.00 MHz			-77.21 dBc	
Spectrum Modulation: @ -0.80 MHz			-75.06 dBc	
Spectrum Modulation: @ 0.80 MHz			-77.42 dBc	
Spectrum Modulation: @ 1.00 MHz			-78.24 dBc	
Spectrum Modulation: @ 1.40 MHz			-78.73 dBc	
Spectrum Modulation: @ 1.60 MHz			-78.38 dBc	

GSM 900, Channel 124, PCL 11, Timeslot: 3, BS RF Level -85.0 dBm, Attenuation (In/Out) 5.3 dB / 5.3 dB, Meas. Slot: 3

Decoding for modulation: Standard, BER Synch time: 0.20 s

Measurement Report



ROHDE & SCHWARZ

報告編號 : TG170932-01

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
Spectrum due to Switching: Reference Power: 13.4 dBm			passed	✓
Spectrum Switching: @ - 1.8 MHz			-56.91 dBm	
Spectrum Switching: @ - 1.2 MHz			-51.89 dBm	
Spectrum Switching: @ - 0.6 MHz			-44.83 dBm	
Spectrum Switching: @ - 0.4 MHz			-43.19 dBm	
Spectrum Switching: @ 0.4 MHz			-39.71 dBm	
Spectrum Switching: @ 0.6 MHz			-45.85 dBm	
Spectrum Switching: @ 1.2 MHz			-53.69 dBm	
Spectrum Switching: @ 1.8 MHz			-56.14 dBm	
Spectrum Switching: @ -1.60 MHz			-54.95 dBm	
Spectrum Switching: @ -1.40 MHz			-53.25 dBm	
Spectrum Switching: @ -1.00 MHz			-49.81 dBm	
Spectrum Switching: @ -0.80 MHz			-48.33 dBm	
Spectrum Switching: @ 0.80 MHz			-49.62 dBm	
Spectrum Switching: @ 1.00 MHz			-53.83 dBm	
Spectrum Switching: @ 1.40 MHz			-56.41 dBm	
Spectrum Switching: @ 1.60 MHz			-55.49 dBm	

Measurement Report



ROHDE & SCHWARZ

報告編號 : TG170932-01

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
Spectrum due to Modulation:			passed	✓
Spectrum Modulation: @ - 1.8 MHz			-80.37 dBc	
Spectrum Modulation: @ - 1.6 MHz			-80.29 dBc	
Spectrum Modulation: @ - 1.4 MHz			-80.99 dBc	
Spectrum Modulation: @ - 1.2 MHz			-79.53 dBc	
Spectrum Modulation: @ - 1.0 MHz			-78.43 dBc	
Spectrum Modulation: @ - 0.8 MHz			-77.78 dBc	
Spectrum Modulation: @ - 0.6 MHz			-75.26 dBc	
Spectrum Modulation: @ - 0.4 MHz			-69.38 dBc	
Spectrum Modulation: @ -0.25 MHz			-41.06 dBc	
Spectrum Modulation: @ - 0.2 MHz			-36.58 dBc	
Spectrum Modulation: @ -0.1 MHz			-9.29 dBc	
Spectrum Reference Power: @ 0 MHz			13.44 dBm	
Spectrum Modulation: @ 0.1 MHz			-8.94 dBc	
Spectrum Modulation: @ 0.2 MHz			-36.15 dBc	
Spectrum Modulation: @ 0.25 MHz			-40.07 dBc	
Spectrum Modulation: @ 0.4 MHz			-70.86 dBc	
Spectrum Modulation: @ 0.6 MHz			-76.05 dBc	
Spectrum Modulation: @ 0.8 MHz			-79.07 dBc	
Spectrum Modulation: @ 1.0 MHz			-78.31 dBc	
Spectrum Modulation: @ 1.2 MHz			-79.40 dBc	
Spectrum Modulation: @ 1.4 MHz			-81.02 dBc	
Spectrum Modulation: @ 1.6 MHz			-80.47 dBc	
Spectrum Modulation: @ 1.8 MHz			-80.15 dBc	
Spectrum Modulation: @ -1.60 MHz			-80.29 dBc	
Spectrum Modulation: @ -1.40 MHz			-80.99 dBc	
Spectrum Modulation: @ -1.00 MHz			-78.43 dBc	
Spectrum Modulation: @ -0.80 MHz			-77.78 dBc	
Spectrum Modulation: @ 0.80 MHz			-79.07 dBc	
Spectrum Modulation: @ 1.00 MHz			-78.31 dBc	
Spectrum Modulation: @ 1.40 MHz			-81.02 dBc	
Spectrum Modulation: @ 1.60 MHz			-80.47 dBc	
Call Release Test:			passed	✓

MS Serial Number: 35494397-003905-6

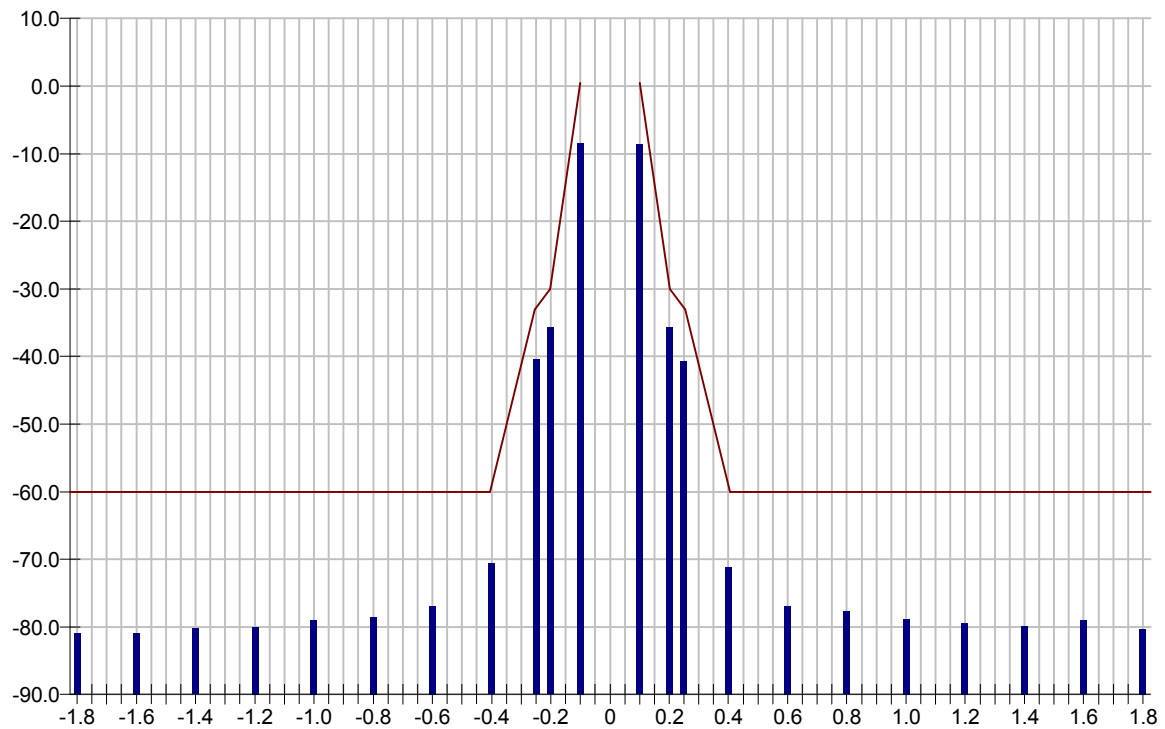
Result:

(Execution Time: 59.8 Seconds)

17 Tests passed / 0 Tests failed

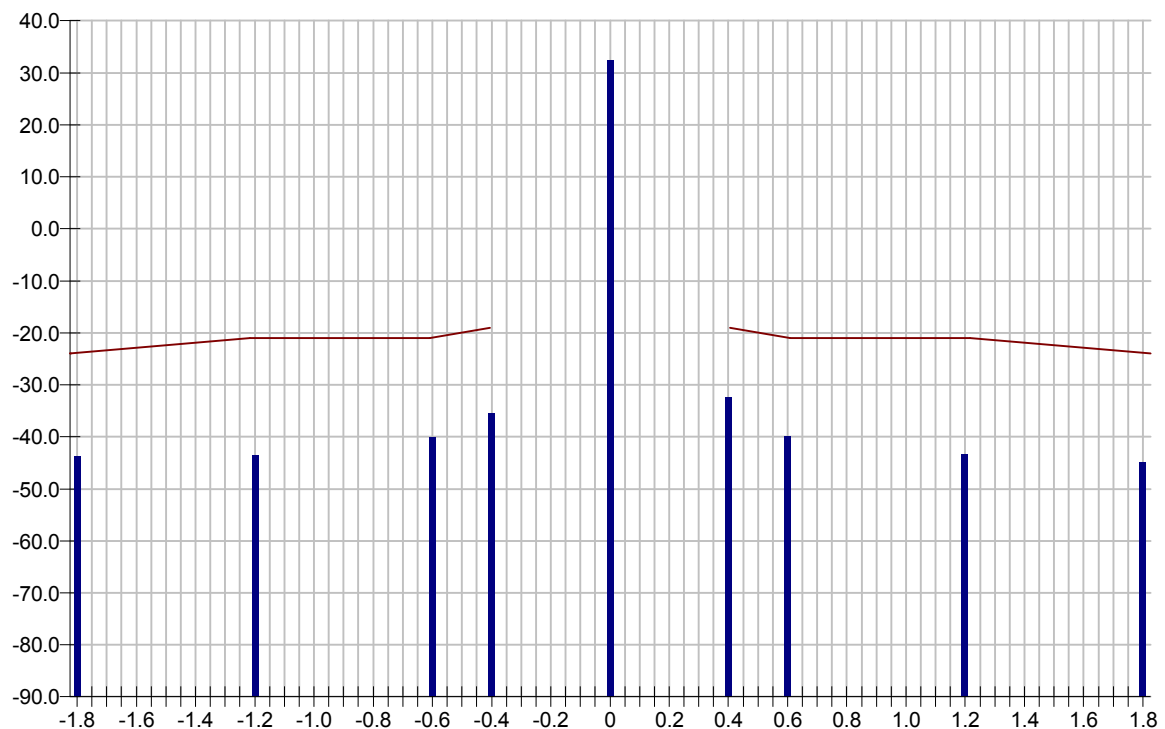
Annex: Spectrum due to Modulation

PCL: 5, Channel: 62, Reference Power: 24.4 dBm



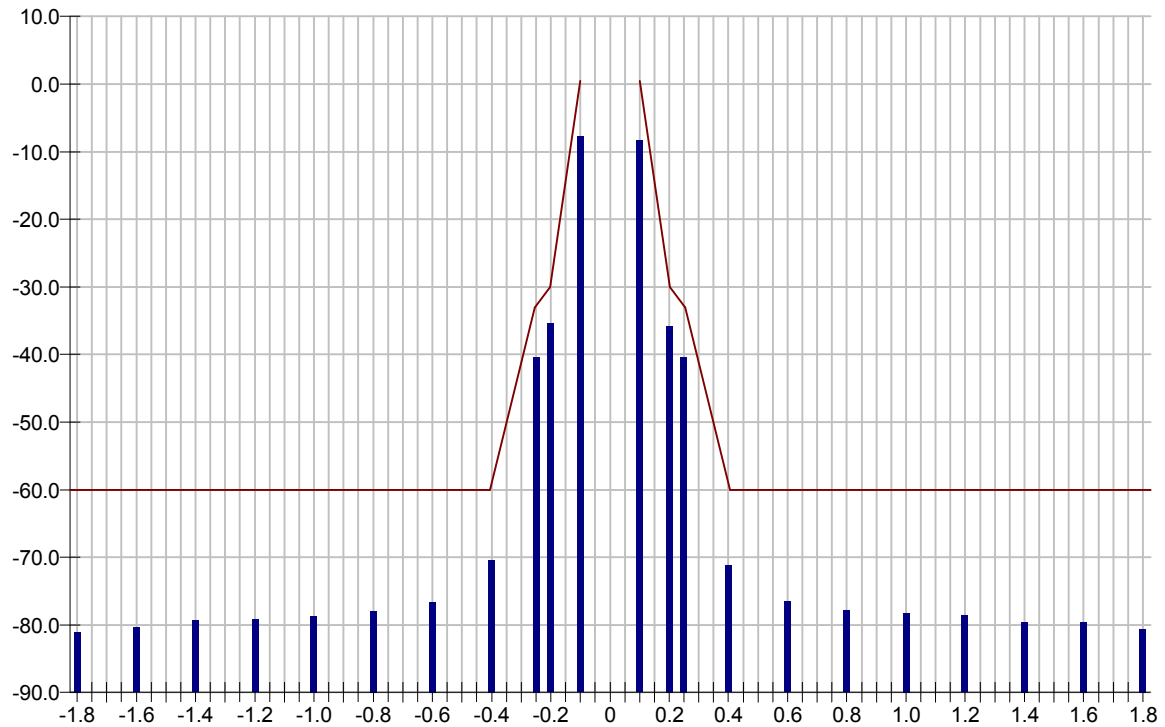
Annex: Spectrum due to Switching

PCL: 5, Channel: 62, Reference Power: 0.0 dBm



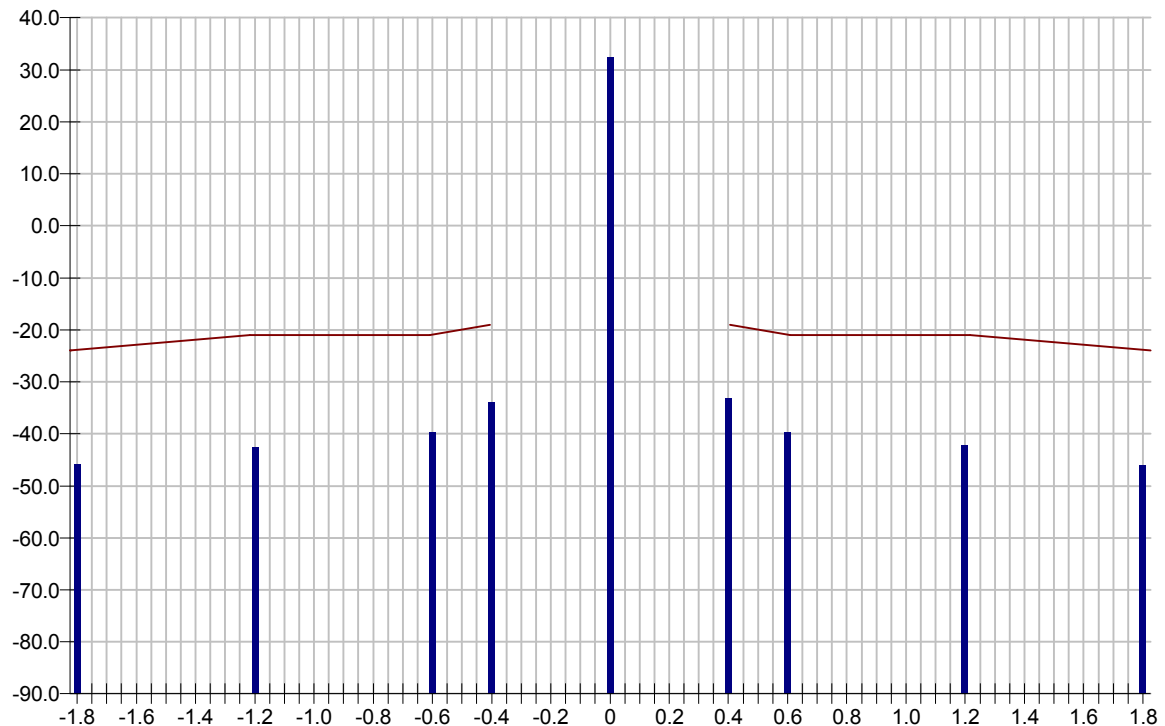
Annex: Spectrum due to Modulation

PCL: 5, Channel: 1, Reference Power: 24.0 dBm



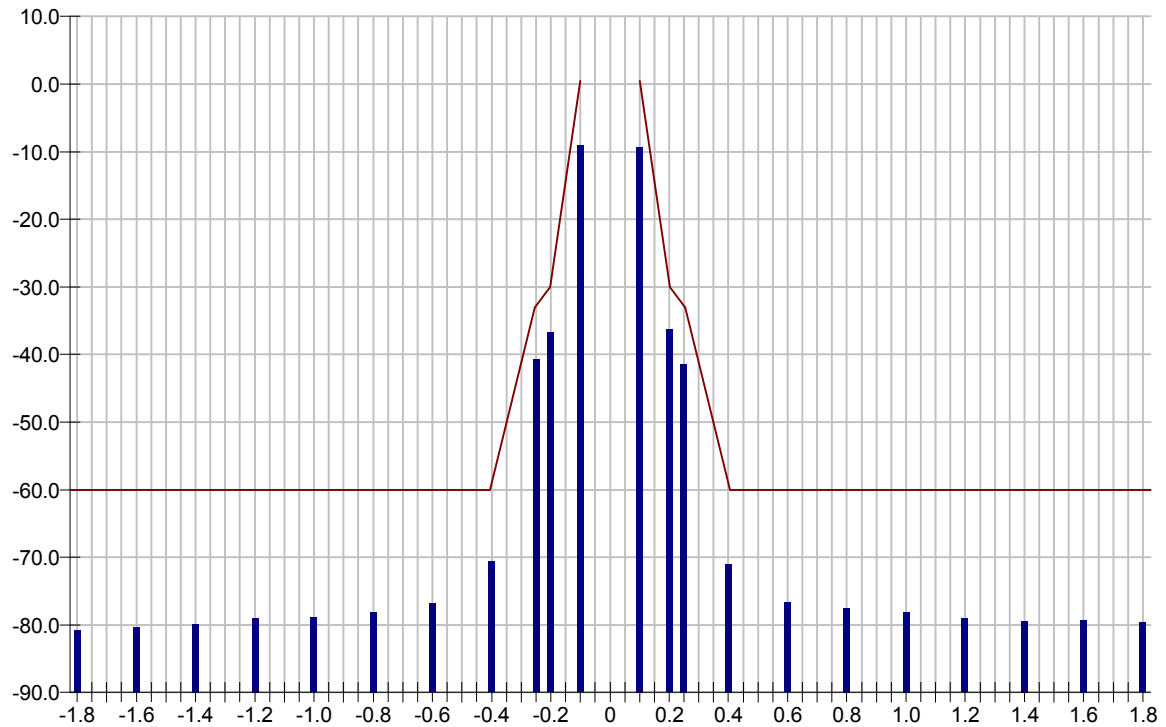
Annex: Spectrum due to Switching

PCL: 5, Channel: 1, Reference Power: 0.0 dBm



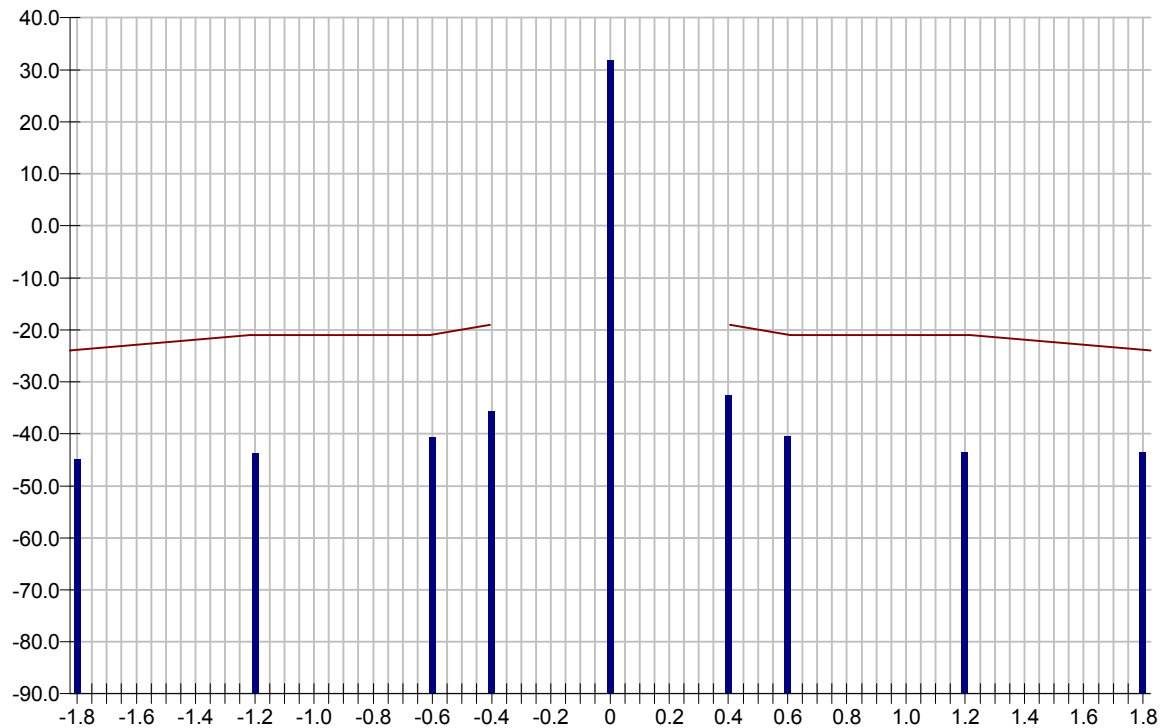
Annex: Spectrum due to Modulation

PCL: 5, Channel: 124, Reference Power: 24.1 dBm



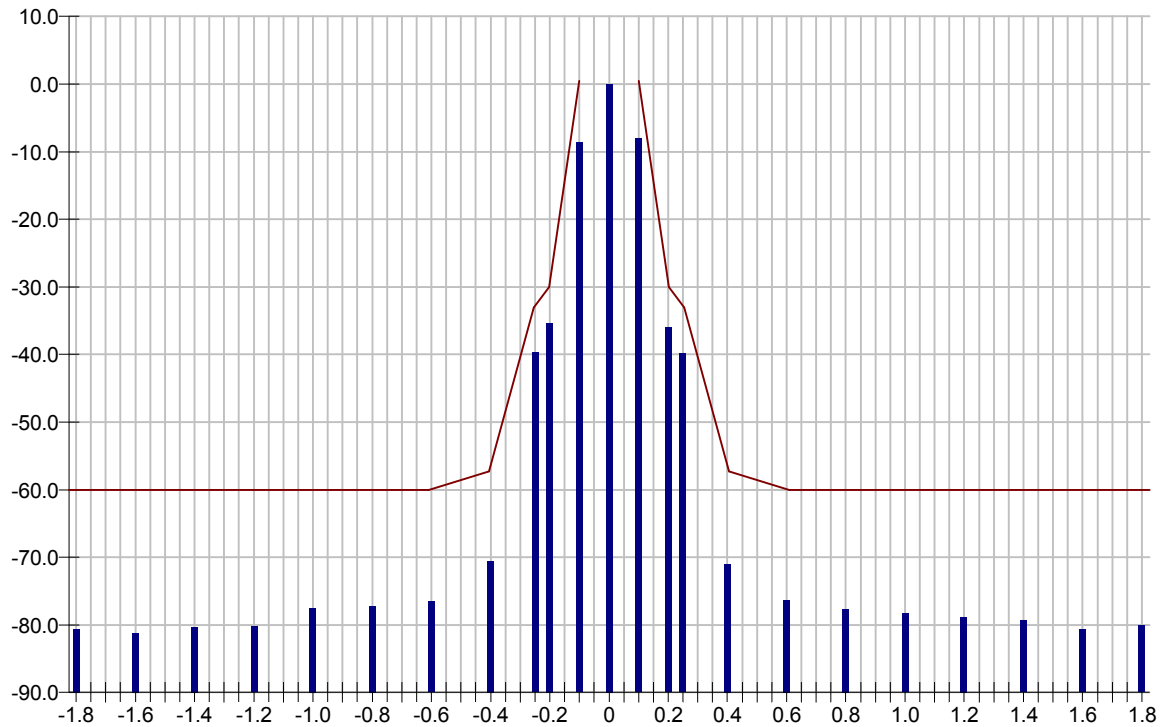
Annex: Spectrum due to Switching

PCL: 5, Channel: 124, Reference Power: 0.0 dBm



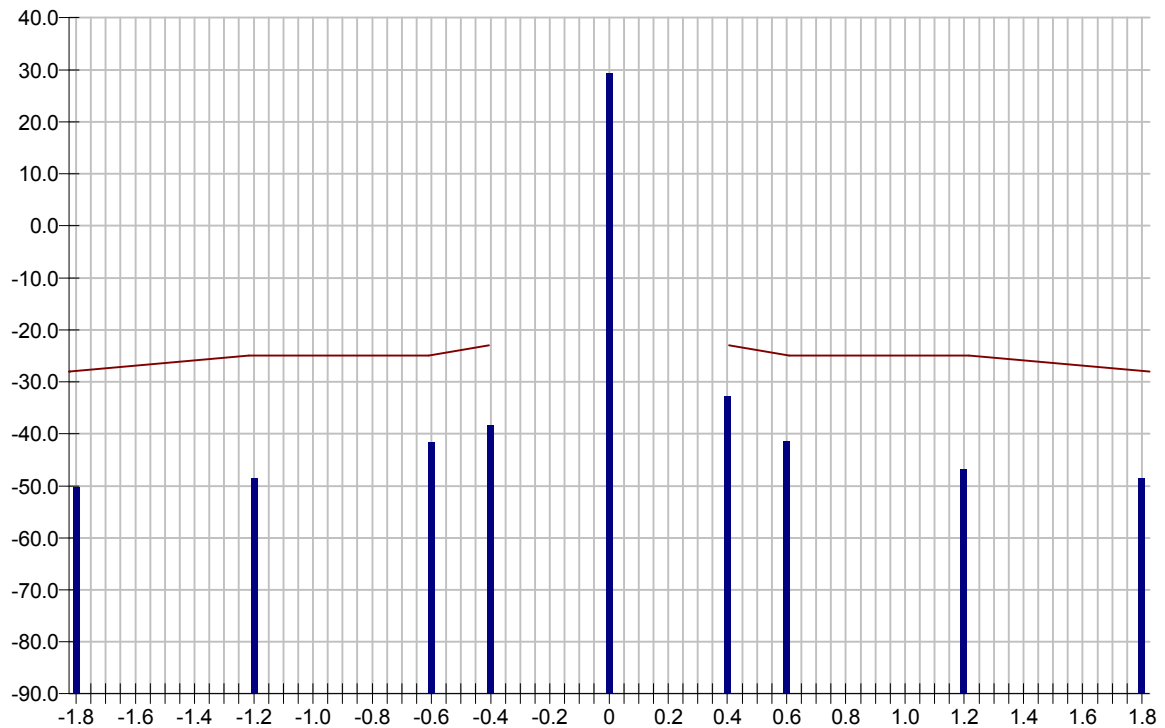
Annex: Spectrum due to Modulation

PCL: 7, Channel: 62, Reference Power: 21.3 dBm



Annex: Spectrum due to Switching

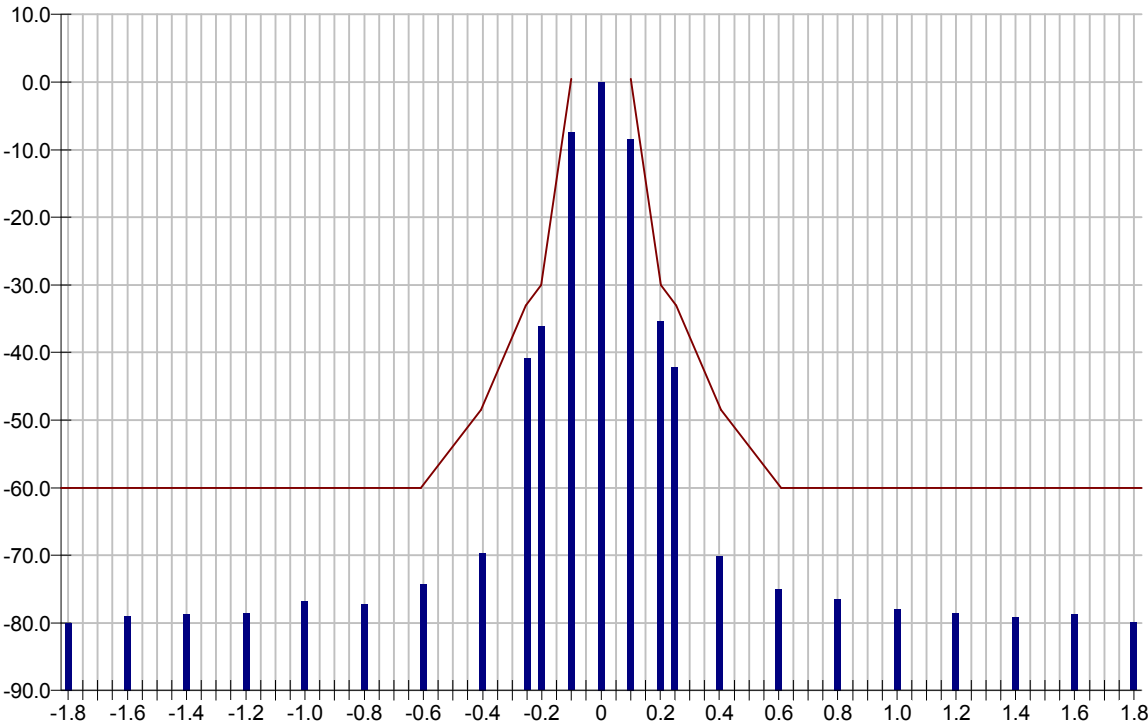
PCL: 7, Channel: 62, Reference Power: 0.0 dBm



Annex:

Spectrum due to Modulation

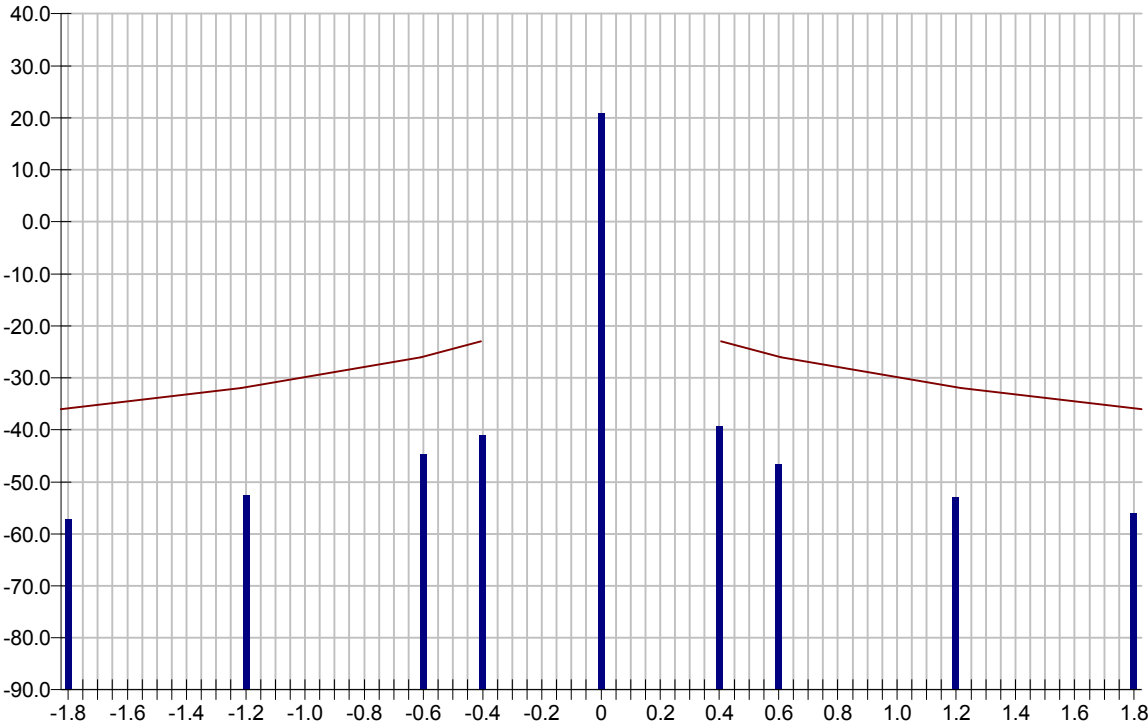
PCL: 11, Channel: 1, Reference Power: 12.5 dBm



Annex:

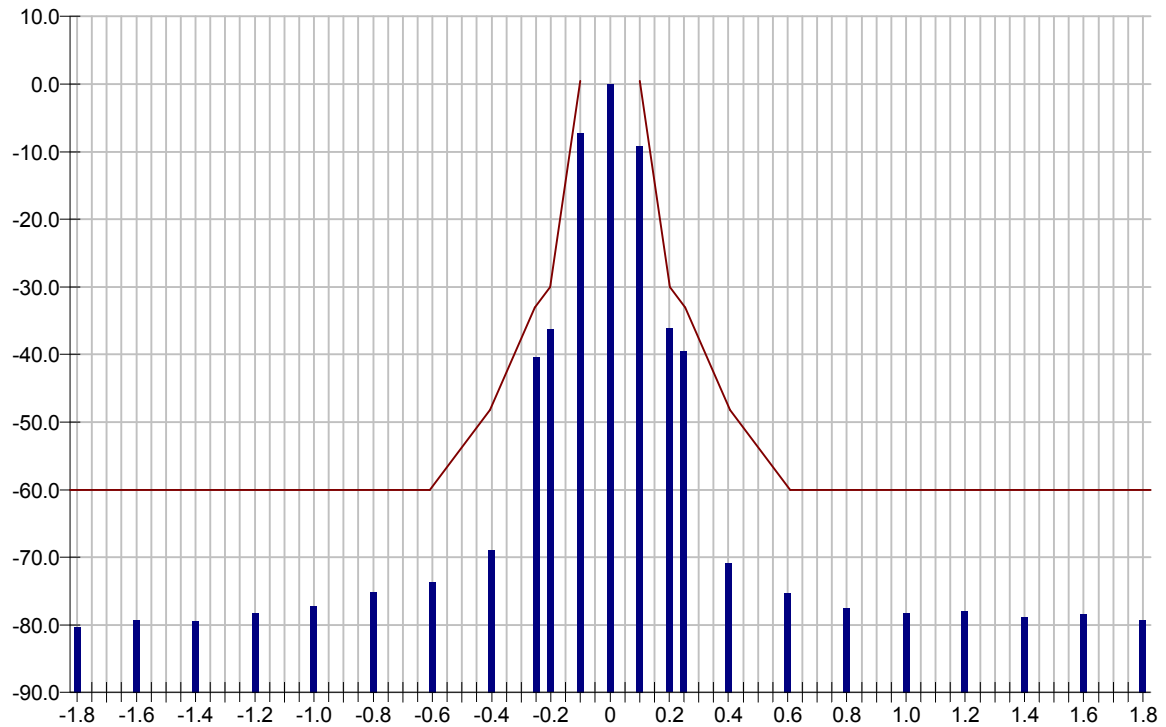
Spectrum due to Switching

PCL: 11, Channel: 1, Reference Power: 0.0 dBm



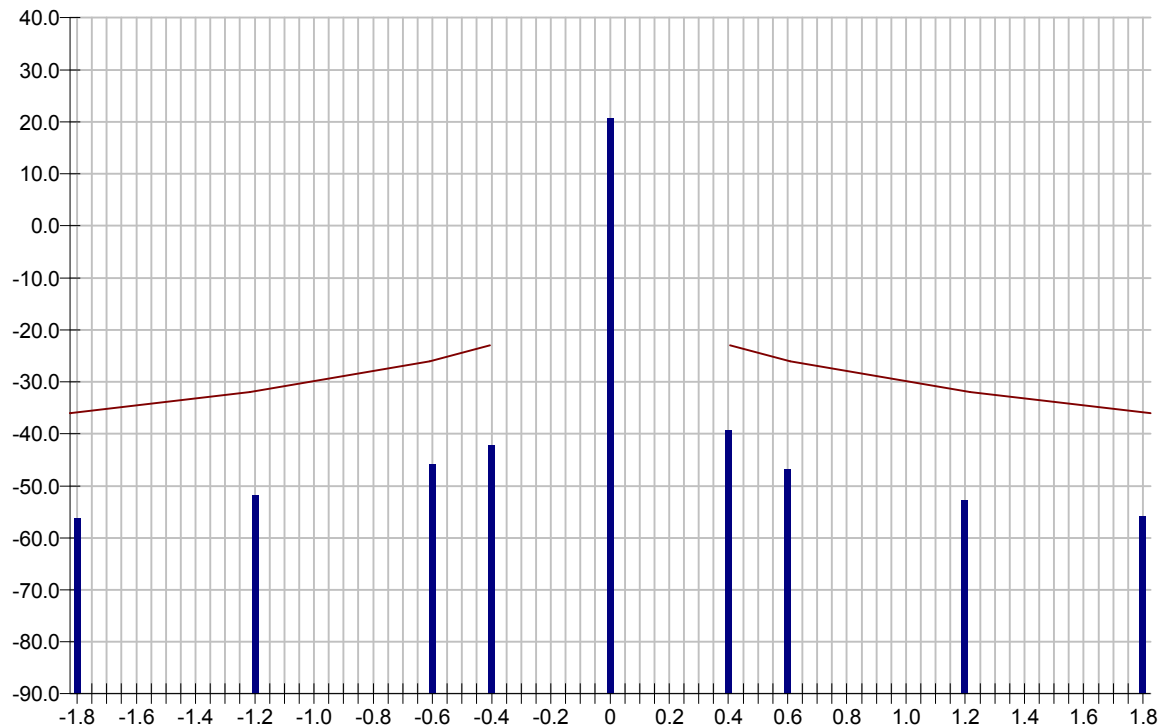
Annex: Spectrum due to Modulation

PCL: 11, Channel: 62, Reference Power: 12.2 dBm



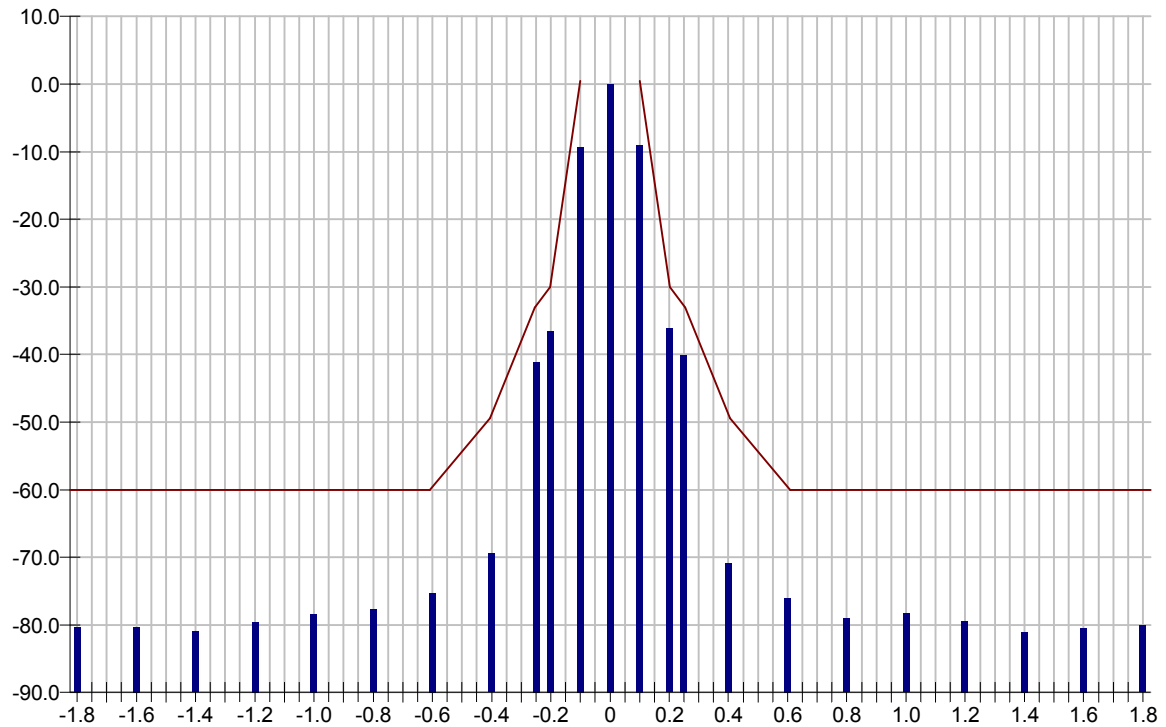
Annex: Spectrum due to Switching

PCL: 11, Channel: 62, Reference Power: 0.0 dBm



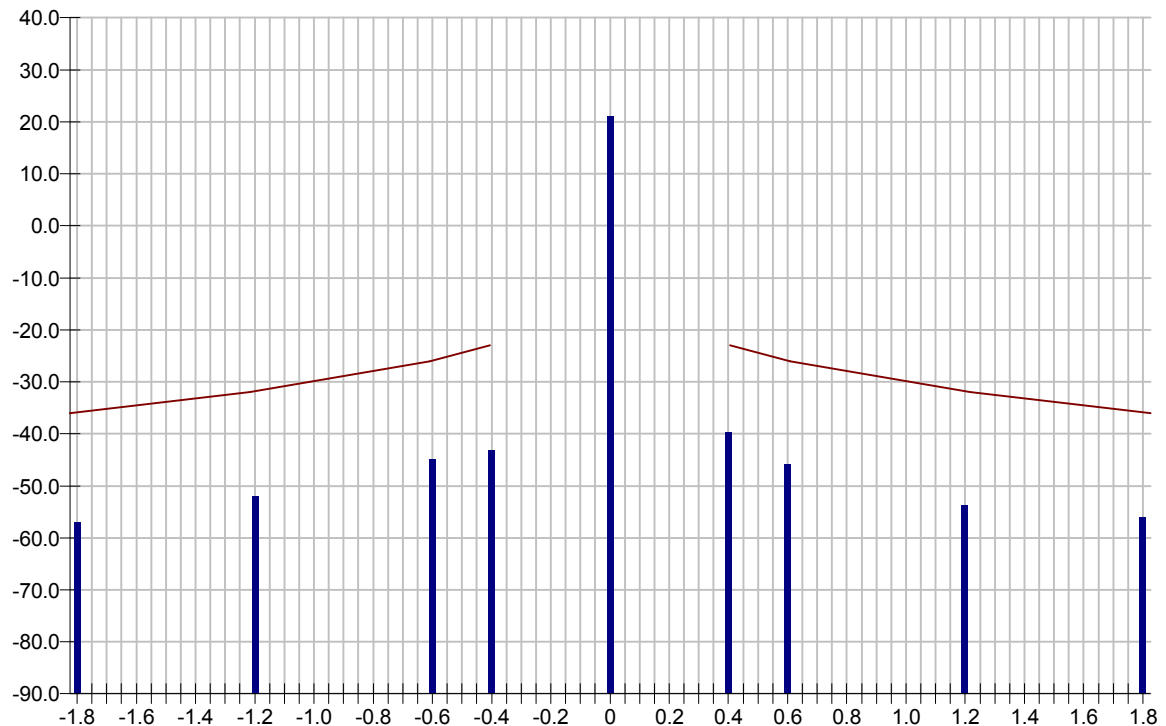
Annex: Spectrum due to Modulation

PCL: 11, Channel: 124, Reference Power: 13.4 dBm



Annex: Spectrum due to Switching

PCL: 11, Channel: 124, Reference Power: 0.0 dBm



Measurement Report



報告編號 : TG170932-01

ROHDE & SCHWARZ

Operator: noname

2021年8月9日 下午 16:36:42

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

Options: 0,B17,B21Var14,B52Var14,B54Var14,B56Var54,B66,COPROC_FULLL,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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Network: GSM 900, BCCH Channel/Level: 62/-85.0 dBm, TCH Channel: 62, TCH Level (dBm): -85.0, Support GSM, PCL: 5

(Main) Timeslot: 3, Attenuation (In/Out): 5.3/5.3 dB, Slot Mode: Single Slot, Bitstream: PR9, AuxTX: Off

Traffic Mode: Full Rate V1

IMSI: 1. 1.0123456789,Serial: 35494397-003905-6, Revision: PH2P, Number: 111, Traffic: NAN, Power Class: 4

Call from Mobile:			passed	✓
Keypad Test: (Ref.: 111)			passed	✓

GSM Output RF Spectrum Test

TCH: 62, CMU_In: 5.50dB, CMU_Out: 5.50dB, FSx_InsertLoss: 7.69 dB, FSx internal Att: 20.00 dB

Spectrum Due to Modulation

PCL: 5, Num of Speech Frames: 50

FT Offset To - End Of Transmit Band - 2.0 MHz		-38.00 dBm	-67.46 dBm	✓
FT Offset To - End Of Transmit Band		-38.00 dBm	-64.83 dBm	✓
FT Offset To - 6.0 MHz		-32.00 dBm	-62.35 dBm	✓
FT Offset To - 3.0 MHz		-30.00 dBm	-59.56 dBm	✓
FT Offset To - 1.8 MHz		-27.00 dBm	-56.21 dBm	✓
FT Offset To + 1.8 MHz		-27.00 dBm	-56.18 dBm	✓
FT Offset To + 3.0 MHz		-30.00 dBm	-58.08 dBm	✓
FT Offset To + 6.0 MHz		-32.00 dBm	-63.29 dBm	✓
FT Offset To + End Of Transmit Band		-38.00 dBm	-65.57 dBm	✓
FT Offset To + End Of Transmit Band + 2.0 MHz		-38.00 dBm	-66.69 dBm	✓

Measurement Report



ROHDE & SCHWARZ

報告編號 : TG170932-01

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
<i>Spectrum Due to Modulation < 1.8MHz</i>				
<i>PCL: 19, Num of Speech Frames: 200</i>				
FT Offset To - 1.6 MHz		-27.00 dBm	-72.18 dBm	✓
FT Offset To - 1.4 MHz		-27.00 dBm	-71.34 dBm	✓
FT Offset To - 1.2 MHz		-27.00 dBm	-70.11 dBm	✓
FT Offset To - 1.0 MHz		-27.00 dBm	-69.55 dBm	✓
FT Offset To - 800 kHz		-27.00 dBm	-69.73 dBm	✓
FT Offset To - 600 kHz		-27.00 dBm	-69.48 dBm	✓
FT Offset To - 400 kHz		-27.00 dBm	-72.25 dBm	✓
FT Offset To - 250 kHz		0.00 dBm	-74.31 dBm	✓
FT Offset To - 200 kHz		3.00 dBm	-74.27 dBm	✓
FT Offset To - 100 kHz		33.50 dBm	-75.50 dBm	✓
FT		33.50 dBm	-74.96 dBm	✓
FT Offset To + 100 kHz		33.50 dBm	-73.70 dBm	✓
FT Offset To + 200 kHz		3.00 dBm	-74.07 dBm	✓
FT Offset To + 250 kHz		0.00 dBm	-71.96 dBm	✓
FT Offset To + 400 kHz		-27.00 dBm	-69.49 dBm	✓
FT Offset To + 600 kHz		-27.00 dBm	-69.01 dBm	✓
FT Offset To + 800 kHz		-27.00 dBm	-69.85 dBm	✓
FT Offset To + 1.0 MHz		-27.00 dBm	-71.32 dBm	✓
FT Offset To + 1.2 MHz		-27.00 dBm	-71.74 dBm	✓
FT Offset To + 1.4 MHz		-27.00 dBm	-72.06 dBm	✓
FT Offset To + 1.6 MHz		-27.00 dBm	-70.68 dBm	✓
<i>Spectrum Due to Switching</i>				
<i>PCL: 5, Num of Speech Frames: 20</i>				
FT Offset To - 1.8 MHz		-24.00 dBm	-66.19 dBm	✓
FT Offset To - 1.2 MHz		-21.00 dBm	-62.46 dBm	✓
FT Offset To - 600 kHz		-21.00 dBm	-60.92 dBm	✓
FT Offset To - 400 kHz		-19.00 dBm	-65.19 dBm	✓
FT Offset To + 400 kHz		-19.00 dBm	-58.23 dBm	✓
FT Offset To + 600 kHz		-21.00 dBm	-59.38 dBm	✓
FT Offset To + 1.2 MHz		-21.00 dBm	-62.83 dBm	✓
FT Offset To + 1.8 MHz		-24.00 dBm	-66.25 dBm	✓
<i>Spurious Emissions in MS RX Band</i>				
<i>PCL: 5, Num of Speech Frames: 50</i>				
Spurious Emission in Receive Band 925 - 935 MHz		-67.00 dBm	-79.32 dBm	✓
<i>The Highest Spurious Frequency in 925 - 935MHz at 928600000.00 Hz</i>				
Spurious Emission in Receive Band 935 - 960 MHz		-79.00 dBm	-80.20 dBm	✓
<i>The Highest Spurious Frequency in 935 - 960 MHz at 942800000.00 Hz</i>				
Spurious Emission in Receive Band 1805 - 1880 MHz		-71.00 dBm	-73.93 dBm	✓
<i>The Highest Spurious Frequency in 1805 - 1880 MHz at 1805200000.00 Hz</i>				
Call Release Test:			passed	✓

MS Serial Number: 35494397-003905-6

Result:

(Execution Time: 854.4 Seconds)

51 Tests passed / 0 Tests failed



附錄 C. 混附波輻射連線狀態和空閒狀態檢驗數據

Measurement Report



報告編號 : TG170932-01

ROHDE & SCHWARZ

Operator: noname

2021年8月9日 下午 16:22:01

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

Options: 0,B17,B21Var14,B52Var14,B54Var14,B56Var54,B66,COPROC_FULLL,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
Network: GSM 900, BCCH Channel/Level: 32/-85.0 dBm, TCH Channel: 62, TCH Level (dBm): -85.0, Support GSM, PCL: 5				
(Main) Timeslot: 3, Attenuation (In/Out): 5.3/5.3 dB, Slot Mode: Single Slot, Bitstream: Handset, AuxTX: Off				
Traffic Mode: Full Rate V1				
IMSI: 1. 1.0123456789,Serial: 35494397-003905-6, Revision: PH2P, Number: 111, Traffic: NAN, Power Class: 4				
Call from Mobile:			passed	✓
Keypad Test: (Ref.: 111)			passed	✓
Frequency Range: Start Freq: 0.10000 MHz, Stop Freq: 50.00000 MHz, FSxPath Loss: 4.20000 dB				
GSM TX Spurious Emissions Max. power at 0.140 MHz		-36.00 dBm	-79.98 dBm	✓
Frequency Range: Start Freq: 50.00000 MHz, Stop Freq: 500.00000 MHz, FSxPath Loss: 6.21000 dB				
GSM TX Spurious Emissions Max. power at 147.600 MHz		-36.00 dBm	-73.47 dBm	✓
Frequency Range: Start Freq: 500.00000 MHz, Stop Freq: 860.00000 MHz, FSxPath Loss: 7.27000 dB				
GSM TX Spurious Emissions Max. power at 859.280 MHz		-36.00 dBm	-39.96 dBm	✓
Frequency Range: Start Freq: 860.00000 MHz, Stop Freq: 870.00000 MHz, FSxPath Loss: 7.27000 dB				
GSM TX Spurious Emissions Max. power at 869.640 MHz		-36.00 dBm	-44.44 dBm	✓
Frequency Range: Start Freq: 870.00000 MHz, Stop Freq: 880.00000 MHz, FSxPath Loss: 7.27000 dB				
GSM TX Spurious Emissions Max. power at 879.220 MHz		-36.00 dBm	-53.20 dBm	✓
Frequency Range: Start Freq: 880.00000 MHz, Stop Freq: 896.40000 MHz, FSxPath Loss: 7.27000 dB				
GSM TX Spurious Emissions Max. power at 896.400 MHz		-36.00 dBm	-60.20 dBm	✓
Frequency Range: Start Freq: 896.40000 MHz, Stop Freq: 900.60000 MHz, FSxPath Loss: 7.30000 dB				
GSM TX Spurious Emissions Max. power at 900.533 MHz		-36.00 dBm	-56.46 dBm	✓
Frequency Range: Start Freq: 904.20000 MHz, Stop Freq: 908.40000 MHz, FSxPath Loss: 7.30000 dB				
GSM TX Spurious Emissions Max. power at 904.393 MHz		-36.00 dBm	-60.55 dBm	✓
Frequency Range: Start Freq: 908.40000 MHz, Stop Freq: 915.00000 MHz, FSxPath Loss: 7.30000 dB				
GSM TX Spurious Emissions Max. power at 908.453 MHz		-36.00 dBm	-63.35 dBm	✓
Frequency Range: Start Freq: 915.00000 MHz, Stop Freq: 925.00000 MHz, FSxPath Loss: 7.30000 dB				
GSM TX Spurious Emissions Max. power at 919.000 MHz		-36.00 dBm	-55.26 dBm	✓
Frequency Range: Start Freq: 925.00000 MHz, Stop Freq: 935.00000 MHz, FSxPath Loss: 7.30000 dB				
GSM TX Spurious Emissions Max. power at 925.260 MHz		-36.00 dBm	-45.43 dBm	✓
Frequency Range: Start Freq: 935.00000 MHz, Stop Freq: 945.00000 MHz, FSxPath Loss: 7.30000 dB				
GSM TX Spurious Emissions Max. power at 935.340 MHz		-36.00 dBm	-46.63 dBm	✓
Frequency Range: Start Freq: 945.00000 MHz, Stop Freq: 1000.00000 MHz, FSxPath Loss: 7.10000 dB				
GSM TX Spurious Emissions Max. power at 945.000 MHz		-36.00 dBm	-41.65 dBm	✓
Frequency Range: Start Freq: 1000.00000 MHz, Stop Freq: 3000.00000 MHz, FSxPath Loss: 10.00000 dB				
GSM TX Spurious Emissions Max. power at 1804.000 MHz		-30.00 dBm	-47.74 dBm	✓
Frequency Range: Start Freq: 3000.00000 MHz, Stop Freq: 6000.00000 MHz, FSxPath Loss: 12.25000 dB				
GSM TX Spurious Emissions Max. power at 3606.000 MHz		-30.00 dBm	-48.21 dBm	✓
Frequency Range: Start Freq: 6000.00000 MHz, Stop Freq: 12750.00000 MHz, FSxPath Loss: 17.36000 dB				
GSM TX Spurious Emissions Max. power at 9420.000 MHz		-30.00 dBm	-50.43 dBm	✓
Call Release Test:			passed	✓

Measurement Report



報告編號 : TG170932-01

ROHDE & SCHWARZ

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P/F
Frequency Range: Start Freq: 0.10000 MHz, Stop Freq: 50.00000 MHz, FSxPath Loss: 3.92000 dB				
GSM TX Spurious Emissions Max. power at 0.100 MHz		-57.00 dBm	-80.64 dBm	✓
Frequency Range: Start Freq: 50.00000 MHz, Stop Freq: 880.00000 MHz, FSxPath Loss: 6.15000 dB				
GSM TX Spurious Emissions Max. power at 250.400 MHz		-57.00 dBm	-77.00 dBm	✓
Frequency Range: Start Freq: 880.00000 MHz, Stop Freq: 915.00000 MHz, FSxPath Loss: 6.30000 dB				
GSM TX Spurious Emissions Max. power at 889.660 MHz		-59.00 dBm	-86.10 dBm	✓
Frequency Range: Start Freq: 915.00000 MHz, Stop Freq: 1000.00000 MHz, FSxPath Loss: 6.16000 dB				
GSM TX Spurious Emissions Max. power at 941.180 MHz		-57.00 dBm	-79.69 dBm	✓
Frequency Range: Start Freq: 1000.00000 MHz, Stop Freq: 1710.00000 MHz, FSxPath Loss: 7.00000 dB				
GSM TX Spurious Emissions Max. power at 1048.280 MHz		-47.00 dBm	-73.99 dBm	✓
Frequency Range: Start Freq: 1710.00000 MHz, Stop Freq: 1785.00000 MHz, FSxPath Loss: 7.10000 dB				
GSM TX Spurious Emissions Max. power at 1746.300 MHz		-53.00 dBm	-84.77 dBm	✓
Frequency Range: Start Freq: 1785.00000 MHz, Stop Freq: 12750.00000 MHz, FSxPath Loss: 15.30000 dB				
GSM TX Spurious Emissions Max. power at 10217.850 MHz		-47.00 dBm	-53.33 dBm	✓

MS Serial Number: 35494397-003905-6

Result:

(Execution Time: 715.0 Seconds)

26 Tests passed / 0 Tests failed

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