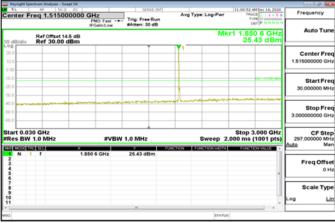


Report No.: ER/2020/C0010-01 Page: 110 of 207

30MHz~3GHz_Band2_20MHz_QPSK_1_0_LowCH18700-1860



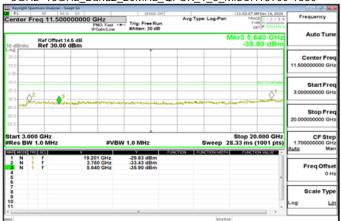
3GHz~10GHz_Band2_20MHz_QPSK_1_0_LowCH18700-1860



30MHz~3GHz_Band2_20MHz_QPSK_1_0_MidCH18900-1880

			SENSE INT			17 17	bes ober	RL
Frequency	11:01:47 AM Dec 16, 2020 TRACE 2 3 4 5 6 TYPE M WWWWWW	Avg Type: Log-Pwr	g: Free Run	GHz	15000000 C		r Fr	
Auto Tu	DET P N N N N N		tten: 30 dB					
2010 10	r1 1.871 4 GHz 25.46 dBm	MK			set 14.5 dB 0.00 dBm		dia	dB/d
		Y1	Y			Rei 50.0	014	۰ ۲
Center Fr								0 —
1.515000000 G								0
								10
Start Fr	Ct1-1200 dDe							
30.000000 M								0
30.000000 M								
	المراركين والمحال ورحاره ومردوقو	al have an an and a second of	++++++++++++++++++++++++++++++++++++++					
Stop Fr								
3.000000000 G								ĩ
								"Γ
CF Ste	Stop 3.000 GHz					0 GHz		
297.000000 M	.000 ms (1001 pts)	Sweep 2	MHz	#VBW 1	z	1.0 MHz	BW	es E
<u>Auto</u> M	FUNCTION VALUE	TION FUNCTION WOTH			×	10 960 I		
			5.46 dBm	71 4 GHz	1.87	1	1 1	N
Freq Offs								
0								
Scale Ty								
Jacaie i y								
Log L								
			**			_	_	_
		STATUS						
							-	-

3GHz~10GHz_Band2_20MHz_QPSK_1_0_MidCH18900-1880



30MHz~3GHz_Band2_20MHz_QPSK_1_0_HighCH19100-1900

Keysight Spectrum Analyzer - Swept SA					
Center Freq 1.51500000	ENC End and Trig	SENSE (INT)	Avg Type: Log-Pwr	11:02:30 AM Dec 16, 2020 TRACE 1 2 3 4 5 6 TVPE M WWWWW	Frequency
Ref Offset 14.5 dE	IFGain:Low #Att	en: 30 dB	м	cr1 1.892 2 GHz 25.62 dBm	Auto Tune
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			X1		Center Fre 1.515000000 GH
0.0				Est-43:00 (Bin	Start Fre 30.000000 MH
0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	and the second secon	an a	and be an account of the second day	9 juga - 188 an al an	Stop Fre 3.00000000 GH
tart 0.030 GHz Res BW 1.0 MHz	#VBW 1.01		Sweep 2	Stop 3.000 GHz .000 ms (1001 pts)	CF Ste 297.000000 MH Auto Ma
2 2 3 4 5	1.892 2 GHz 26.	62 dBm			Freq Offse
6 7 8 9					Scale Typ
10					Log Li
00			STATU	5	

3GHz~10GHz_Band2_20MHz_QPSK_1_0_HighCH19100-1900

Keysight Spectrum Analyzer - Swept SA					
Center Freq 11.50000000	PNC East new Trig:	Free Run	Type: Log-Pwr	11:02:54 AM Dec 16, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P NNNNN	Frequency
Ref Offset 14.5 dB	IFGain:Low #Atte	n: 30 dB	N	lkr3 5.700 GHz -33.77 dBm	Auto Tune
- 0g 20.0 10.0 0.00					Center Fre 11.500000000 GH
10.0	****			Q ¹	Start Fre 3.000000000 GH
					Stop Fre 20.000000000 GH
tart 3.000 GHz Res BW 1.0 MHz	#VBW 1.0 M			Stop 20.000 GHz 3.33 ms (1001 pts)	CF Ste 1.700000000 GH Auto Ma
2 N 1 f	3.800 GHz -32.2	4 dBm 9 dBm 7 dBm	FUNCTION WOTH	FUNCTION VALUE	Freq Offse
6 7 8 9					Scale Typ
10					
rt			STATUS	•	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

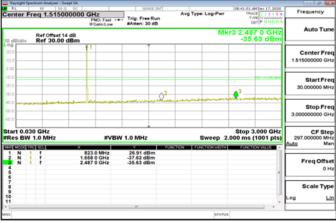
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 www.sgs.com.tw

Member of SGS Group

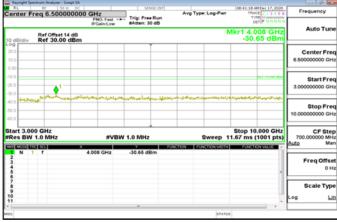


Report No.: ER/2020/C0010-01 Page: 111 of 207

30MHz~3GHz_Band5_10MHz_QPSK_1_0_LowCH20450-829



3GHz~10GHz_Band5_10MHz_QPSK_1_0_LowCH20450-829



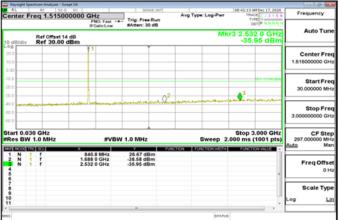
30MHz~3GHz_Band5_10MHz_QPSK_1_0_MidCH20525-836	5.5
🔜 Keysight Spectrum Analyzer - Swept SA	0 0

Center F	req 1.515000	0000 GHz	Trig: Free Run	Avg Type: Log-Pwr	08:41:38 AM Dec 17, 2020 TRACE 1 2 3 4 5 4 TVPE N WWWWW	
10 dB/div	Ref Offset 14 d Ref 30.00 dE	IFGain:Low	#Atten: 30 dB	м	cr3 2.509 5 GHz -35.05 dBm	
20.0 10.0		¥1				Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0			\ ²		3	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0		مۇ سىدە ھىلىم ^{ىي} ماركىرىدە		nin an		Stop Freq 3.00000000 GHz
Start 0.03 #Res BW	1.0 MHz	×	V 1.0 MHz	Sweep 2	Stop 3.000 GHz .000 ms (1001 pts)	
1 2 3 4 5		831.9 MHz 1.673 0 GHz 2.509 5 GHz	26.71 dBm -39.04 dBm -35.05 dBm			Freq Offset 0 Hz
6 7 8 9						Scale Type
11 ×				STATU	s -	

3GHz~10GHz_Band5_10MHz_QPSK_1_0_MidCH20525-836.5



30MHz~3GHz_Band5_10MHz_QPSK_1_0_HighCH20600-844



3GHz~10GHz_Band5_10MHz_QPSK_1_0_HighCH20600-844

				- Swept SA	ysight Spectrum Analyzer - !	Ke
Frequency	08:42:27 AM Dec 17, 2020 TRACE 1 2 3 4 5 6 TYPE H WWWWW DET P NNNNN	Avg Type: Log-Pwr	Trig: Free Run	0000000 GHz	ter Freq 6.5000	Cen
Auto Tune	Akr1 3.812 GHz -30.91 dBm	N	#Atten: 30 dB	IFGain:Low	Ref Offset	10 d
Center Freq 6.50000000 GHz						20.0 10.0 0.00
Start Freq 3.000000000 GHz	0.1 +13:00 eDire				1	-10.0 -20.0 -30.0
Stop Freq 10.00000000 GHz	*****	*******	e e den ger yn yr yr âften ar den gy	hand a second a second s		-40.0 -50.0 -60.0
CF Step 700.000000 MHz Auto Man	Stop 10.000 GHz 1.67 ms (1001 pts)	Sweep 1	1.0 MHz	#VB	rt 3.000 GHz s BW 1.0 MHz	#Re
Freq Offset 0 Hz			-30.91 dBm	3.812 GHz	N 1 f	1 2 3 4 5
Scale Type						6 7 8 9 10
		STATU				11 *

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技股份有限公司

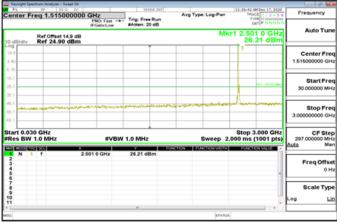
t (886-2) 2299-3279

f (886-2) 2298-0488



Page: 112 of 207

30MHz~3GHz_Band7_20MHz_QPSK_1_0_LowCH20850-2510



3GHz~10GHz_Band7_20MHz_QPSK_1_0_LowCH20850-2510



30MHz~3GHz_Band7_20MHz_QPSK_1_0_MidCH21100-2535

Frequenc	11:27:26 AM Dec 17, 2020 TRACE 1 2 3 4 5 6	Type: Log-Pwr	E:INT]		GHz	.515000000	87	ter F
Auto T	r1 2.524 8 GHz	Mki	Run dB	#Atten: 2	PNO: Fast ** IFGain:Low	Offset 14.9 dB		
	26.46 dBm					24.90 dBm		B/div
Center 1.51500000	1							
Start 30.000000	DU1-25-00-48m							
Stop 3.00000000	, and have no service of the	Barry Married			******		~~~~	
CF 297.000000	Stop 3.000 GHz .000 ms (1001 pts)		L. DINCT	W 1.0 MHz	#VB		0 GHz 1.0 M	s BV
FreqO	[26.46 dE	524 8 GHz	2.	1	N
Scale								
Log								
		STATUS						_

3GHz~10GHz_Band7_20MHz_QPSK_1_0_MidCH21100-2535

Report No.: ER/2020/C0010-01



30MHz~3GHz_Band7_20MHz_QPSK_1_0_HighCH21350-2560

Keysight Spe	ctrum Analyzer - Sive					
	eq 1.51500	0000 GHz	Trig: Free Run	Avg Type: Log-Pwr	11:28:01 AM Dec 17, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P NNNNN	Frequency
10 dB/div	Ref Offset 14. Ref 24.90 d		#Atten: 20 dB	Mk	r1 2.551 5 GHz 21.60 dBm	Auto Tune
14.9 4.90 6.10					1	Center Freq 1.515000000 GHz
-15.1					0,1 -25:00 attes	Start Freq 30.000000 MHz
-45.1 -65.1	hippinest preserve	ayahantan tirahan tirah	yailnikyenniksitellike	panan tanan tan	positosomuques	Stop Freq 3.00000000 GHz
Start 0.03 #Res BW	1.0 MHz	#VBI	V 1.0 MHz	Sweep 2	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 2 3 4 5		2.551 6 GHz	21.60 dBm	ACTION FORCION WOTH		Freq Offset 0 Hz
6 7 8 9 10						Scale Type
* (18	STATUS	•	

3GHz~10GHz_Band7_20MHz_QPSK_1_0_HighCH21350-2560

	ectrum Analyzer - Swept	t SA				
Center F	req 16.50000	00000 GHz	Trig: Free Run	Avg Type: Log-Pwr	11:43:08 AM Dec 17, 2020 TRACE 1 2 3 4 5 6 TVRE NWWWW DET P NNNNN	Frequency
10 dB/div	Ref Offset 14.9 Ref 24.90 di	IFGain:Low	#Atten: 20 dB		Mkr3 7.680 GHz -43.61 dBm	Auto Tune
4.90 5.10						Center Free 16.500000000 GH
25.1	<u>∧</u> 2 ▲3				CL1-25-00-00-	Start Fre 3.000000000 GH
15.1 - 11 15.1 - 11	- Martan Martin	Manlouit Ausonaus	and a second and a second s	and an and a start and a start and		Stop Fre 30.000000000 GH
	1.0 MHz		W 1.0 MHz		Stop 30.00 GHz 5.07 ms (1001 pts)	CF Ste 2.700000000 GH Auto Ma
1 N 2 N 3 N 4 5		29.730 GHz 6.120 GHz 7.680 GHz	-35.89 dBm -44.45 dBm -43.61 dBm	ACTION FUNCTION WOTH	FUNCTION VALUE	Freq Offse
7 8 9 10						Scale Typ
90				STATU	5	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

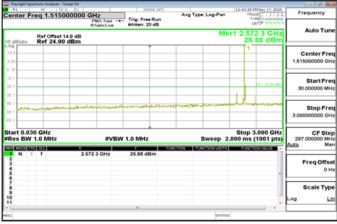
台灣檢驗科技股份有限公司

t (886-2) 2299-3279 f (886-2) 2298-0488



Report No.: ER/2020/C0010-01 Page: 113 of 207

30MHz~3GHz_Band38_20MHz_QPSK_1_0_LowCH37850-2580



3GHz~10GHz_Band38_20MHz_QPSK_1_0_LowCH37850-2580

Keysight Spectrum Analyzer - Swe					
Center Freq 16.5000	00000 GHz	Trig: Free Run	Avg Type: Log-Pwr	12:43:34 PM Dec 17, 2020 TRACE 1 2 3 4 5 6 TVPE M 444445	Frequency
Ref Offset 14.	IFGain:Low 9 dB	#Atten: 20 dB		Akr3 7.740 GHz -42.06 dBm	Auto Tune
14.9 4.90 5.10					Center Free 16.500000000 GH
-15.1				R.1 -25 00 40m	Start Free 3.000000000 GH
-45.1 44 10 10 10 10 10 10 10 10 10 10 10 10 10		**************************************	معلم مراسط <mark>م</mark> عامل الدراور على المح		Stop Fre 30.000000000 GH
Start 3.00 GHz #Res BW 1.0 MHz		W 1.0 MHz		Stop 30.00 GHz 5.07 ms (1001 pts)	CF Ster 2.70000000 GH Auto Mar
1 N 1 f 2 N 1 f 3 N 1 f 4 5	29.784 GHz 5.160 GHz 7.740 GHz	-36.36 dBm -44.41 dBm -42.06 dBm	ARCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offse
7 8 9 10					Scale Type
* [STATU	5	L

30MHz~3GHz_Band38_20MHz_QPSK_1_0_MidCH38000-2595

Frequence	M Dec 17, 2020	12:43:57 P	Type: Log-Pwr	SENSE INT		9 DC	eq 1.5150		RL
		TI	Type: cog-rwr	Free Run n: 20 dB	THE East when T	F	eq 1.5150	or Pre	ite
Auto T	7 2 GHz 72 dBm		M				Ref Offset 1 Ref 24.90		IB/c
Center 1.515000000		1							
Start 30.000000	01.1 -25.00 albe-								
Stop 3.000000000	er gBriegerke	ent/ha	*********		1960-see Joseph ann	aga ang ang ang ang ang ang ang ang ang	L.M. Lalkana, "P		^
CF 1 297.000000 Auto	.000 GHz 1001 pts)	.000 ms (Sweep 2		#VBW 1.		0 GHz 1.0 MHz		s I
FreqO				2 dBm	2 GHz	2.587	1		N
Scale	- 1								
Log									
		5	STATU						

3GHz~10GHz_Band38_20MHz_QPSK_1_0_MidCH38000-2595



30MHz~3GHz_Band38_20MHz_QPSK_1_0_HighCH38150-2610

Frequency	12:44:34 PM Dec 17, 2020	Type: Log-Pwr	ENSE:INT]	50	DC	num Analyzer - Swep	RL
	DET P NNNN			#Atten: 2	PNO: Fast IFGain:Low	1.01000	enter ri
Auto Tune	r1 2.602 0 GHz 26.09 dBm	Mk				Ref Offset 14.9 Ref 24.90 d	0 dB/div
Center Freq 1.515000000 GHz	1						4.90 5.10
Start Freq 30.000000 MHz	EU - 25.00 dbs						15.1 8.1 8.1
Stop Freq 3.000000000 GHz	served her and server	baseret konner	and the second state of the		show the second	ton subtractions	15.1 25.1 26.1
CF Step 297.000000 MHz Auto Man	Stop 3.000 GHz .000 ms (1001 pts)	Sweep 2	-	W 1.0 MHz	#VE	1.0 MHz	tart 0.03 Res BW
Freq Offset 0 Hz				26.09 dE	2.602 0 GHz	1	1 N 1 2 3 4 6
Scale Type							6 7 8 9
Log Lin							10
		STATUS					0

3GHz~10GHz_Band38_20MHz_QPSK_1_0_HighCH38150-2610

📕 Keysight Spectrum Analyzer - Swept S	A				
Center Freq 16.500000	000 GHz	Trig: Free Run	Avg Type: Log-Pwr	12:44:50 PM Dec 17, 2020 TRACE 1 2 3 4 5 6 TVPE M WWWWW DET P N N N N N	Frequency
Ref Offset 14.9 o 10 dB/div Ref 24.90 dB	IFGain:Low	#Atten: 20 dB		Mkr3 7.830 GHz -43.31 dBm	Auto Tune
4.90 6.10					Center Free 16.50000000 GHz
-15.1				21 au - 2000	Start Free 3.00000000 GH
45.1	nan dat kilyn branzje	construction and a second	Juli - C. Nebrales - Lanna		Stop Free 30.000000000 GH;
Start 3.00 GHz #Res BW 1.0 MHz	#VB	W 1.0 MHz		Stop 30.00 GHz 15.07 ms (1001 pts)	CF Step 2.700000000 GHz Auto Mar
1 N 1 f 2 N 1 f 3 N 1 f 4 5	26.382 GHz 6.220 GHz 7.830 GHz	-34.94 dBm -42.04 dBm -43.31 dBm	INCTION FUNCTION WOTH	FUNCTION VALUE	Freq Offse
0 7 8 9					Scale Type
10 11					Log Lin
*		**	STATU	•	L

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技股份有限公司

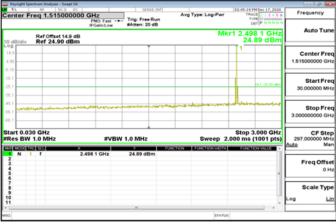
t (886-2) 2299-3279

f (886-2) 2298-0488

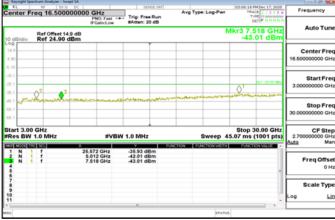


Report No.: ER/2020/C0010-01 Page: 114 of 207

30MHz~3GHz_Band41_20MHz_QPSK_1_0_LowCH39750-2506



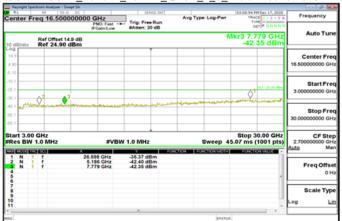
3GHz~10GHz_Band41_20MHz_QPSK_1_0_LowCH39750-2506



30MHz~3GHz_Band41_20MHz_QPSK_1_0_MidCH40620-2593

Frequency	03:00:39 PM Dec 17, 2020 TRACE 2 3 4 5 6 TVPE H WWWWW	Avg Type: Log-Pwr	Trig: Free Run	0 DC 000000 GHz PNO: Fast	req 1.5150	Center Fi
Auto Tune	r1 2.584 2 GHz 26.42 dBm	Mk	#Atten: 20 dB	IFGain:Low	Ref Offset 1 Ref 24.90	0 dB/div
Center Free 1.515000000 GH	1					4.90 5.10
Start Free 30.000000 MH	0.1 -25:00 attes					-15.1 26.1 36.1
Stop Free 3.000000000 GH	arma/lababaraa	and a second		موريب بالمريد والمسرور والمسرور	harlow 2007-1978	45.1 65.1
CF Step 297.000000 MH Auto Mar	Stop 3.000 GHz .000 ms (1001 pts)	Sweep 2		×	1.0 MHz	Start 0.03 Res BW
Freq Offse 0 H			26.42 dBm	2.584 2 GHz	1	1 N 1 2 3 4 5
Scale Type						6 7 8 9 10 11
L	•	STATUS				80

3GHz~10GHz_Band41_20MHz_QPSK_1_0_MidCH40620-2593



30MHz~3GHz_Band41_20MHz_QPSK_1_0_HighCH41490-2680

Keysight Spectrum Analyzer					
Center Freq 1.515	000000 GHz PNO: Fast *	Trig: Free Run	Avg Type: Log-Pwr	03:01:21 PM Dec 17, 2020 TRACE 1 2 3 4 5 6 TYPE H WWWWW DET P NNNNN	Frequency
Ref Offset 10 dB/div Ref 24.9		#Atten: 20 dB	Mk	r1 2.670 3 GHz 25.53 dBm	Auto Tune
14.9 4.90 5.10				1	Center Freq 1.51500000 GHz
25.1				DL1-35.00 alber	Start Freq 30.000000 MHz
45.1 55.1 65.1	and a substantian fraction of the substantion of the substantismed of the substantion of the substantion of the substantion of			- sound and an	Stop Freq 3.000000000 GHz
tart 0.030 GHz Res BW 1.0 MHz		W 1.0 MHz		Stop 3.000 GHz .000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 f 2 3 4 5	2.670 3 GHz	25.53 dBm	ACTON FUNCTION WOTH	FUNCTION VALUE	Freq Offset
6 7 8 9					Scale Type
10					Log <u>Lin</u>
90			STATUS	6	

Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω D		SENSE:INT		03:01:40 PM Dec 17, 2020	
Center Freq 16.500000	000 GHz PNO: Fast	Trig: Free Run	Avg Type: Log-Pv	THACE 1 2 3 4 5 6 TYPE HWWWWW DET P NNNNN	Frequency
	IFGain:Low	#Atten: 20 dB		DET P NNNNN	
10 dB/div Ref 24.90 dBn	B			Mkr3 8.040 GHz -43.18 dBm	Auto Tune
149 4.90 & 10					Center Freq 16.50000000 GHz
-15.1 -25.1 -36.1				0.1 -25.00 dBm	Start Freq 3.00000000 GHz
45.1	-h	an - 2. 1946 - 1. 6 ₀₀₀ - 1. 7. 1	99.99.99.99.99.99.99.99.99.99.99.99.99.		Stop Freq 30.00000000 GHz
Start 3.00 GHz #Res BW 1.0 MHz	#VB	V 1.0 MHz	Sweep	Stop 30.00 GHz 45.07 ms (1001 pts)	CF Step 2.70000000 GHz Auto Man
MED MORE THE SEC.	×		UNCTION FUNCTIONING	THE FUNCTION VALUE A	AMER Mari
1 N 1 F 2 N 1 F 4 5	25.815 GHz 5.360 GHz 8.040 GHz	-34.74 dBm -45.22 dBm -43.18 dBm			Freq Offset 0 Hz
7 8 9					Scale Type
10					Log <u>Lin</u>
()					
M9G			57.4	705	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488



FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT 9

9.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(m)(2)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sice responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)^{\text{Note}}$
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)^{Note}$
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

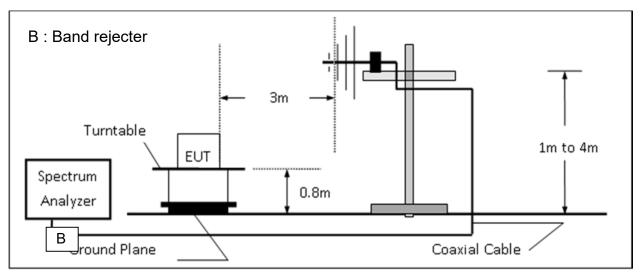
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

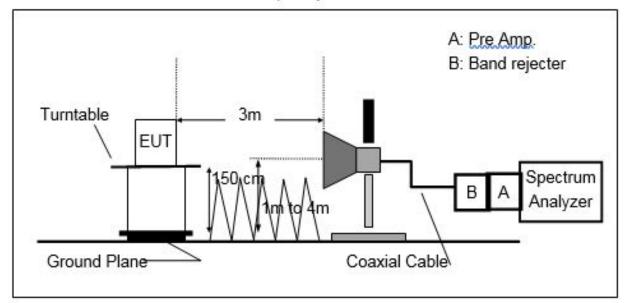


9.2 **EUT Setup**

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



9.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



9.4 **Measurement Equipment Used:**

ER	P, EIRP MEASU	JREMENT EQUIPI	MENT List 966 Cha	amber	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/17/2020	12/16/2021
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2020	01/12/2021
Loop Antenna	ETS.LIND- GREN	6502	148045	10/19/2020	10/18/2021
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/29/2020	10/28/2021
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Pre-Amplifier	EMC Instru- ments	EMC184045B	980135	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instru- ments	EMC051825	980152	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A09469	01/02/2020	01/01/2021
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2020	01/01/2021
Filter 1700-2000	Micro-Tronics	EWT	M3	01/02/2020	01/01/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2020	01/01/2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM- 2000	160123	01/02/2020	01/01/2021
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
High Pass Filter	WI	WHKX4.0/18G- 10SS	WHKX4.0/18G- 10SS	01/02/2020	01/01/2021

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

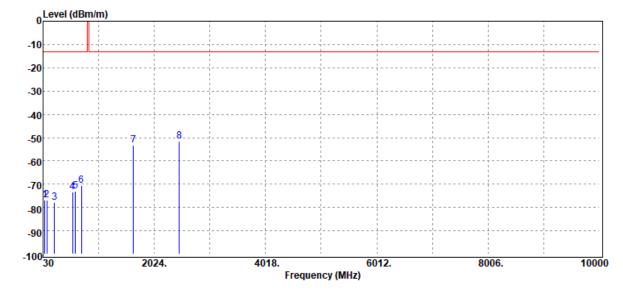


Report No.: ER/2020/C0010-01 Page: 120 of 207

Measurement Result: 9.5

Report Number	:ER/2020/C0010
Operation Mode	:GSM 850
Test Mode	:Tx CH Low
EUT Pol	:H Plane
Test Frequency	:824.2 MHz

Test Site	:SAC I Chamber
Test Date	:2020-12-22
Temp./Humi.	:22.0/64
Antenna Pol.	:VERTICAL
Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
65.89	-76.95	-63.07	-13.09	-0.79	-13.00	-63.95
100.81	-76.80	-69.65	-6.20	-0.95	-13.00	-63.80
238.55	-77.72	-74.53	-1.72	-1.47	-13.00	-64.72
556.71	-73.39	-69.78	-1.35	-2.26	-13.00	-60.39
613.94	-73.18	-69.32	-1.86	-2.00	-13.00	-60.18
720.64	-70.44	-66.58	-1.21	-2.65	-13.00	-57.44
1648.40	-53.44	-59.37	9.79	-3.86	-13.00	-40.44
2472.60	-51.41	-57.42	10.78	-4.77	-13.00	-38.41

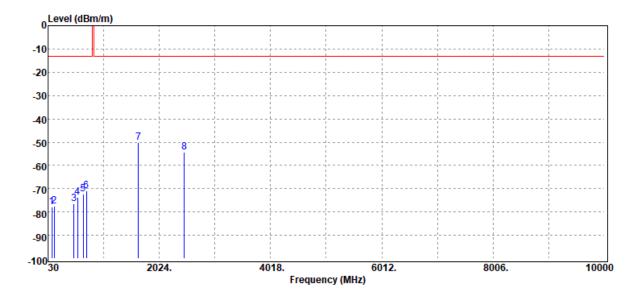
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



Report No.: ER/2020/C0010-01 Page: 121 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 850	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:824.2 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
100.81	-77.72	-70.57	-6.20	-0.95	-13.00	-64.72
139.61	-77.39	-68.37	-7.93	-1.09	-13.00	-64.39
492.69	-76.47	-72.70	-1.63	-2.14	-13.00	-63.47
560.59	-73.64	-69.99	-1.37	-2.28	-13.00	-60.64
662.44	-72.24	-68.17	-1.35	-2.72	-13.00	-59.24
719.67	-70.96	-67.13	-1.19	-2.64	-13.00	-57.96
1648.40	-50.03	-55.96	9.79	-3.86	-13.00	-37.03
2472.60	-54.38	-60.39	10.78	-4.77	-13.00	-41.38

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

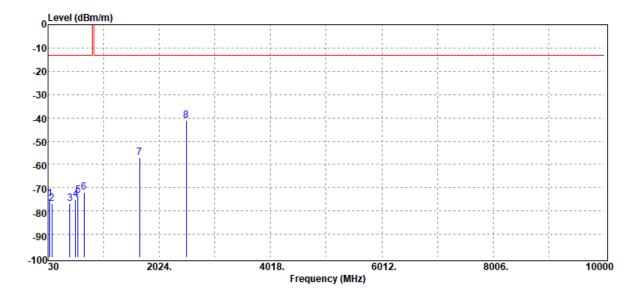
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 122 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 850	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.6 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
65.89	-74.67	-60.79	-13.09	-0.79	-13.00	-61.67
97.90	-76.89	-70.16	-5.79	-0.94	-13.00	-63.89
420.91	-76.80	-73.23	-1.48	-2.09	-13.00	-63.80
524.70	-74.92	-71.59	-1.33	-2.00	-13.00	-61.92
565.44	-73.38	-69.69	-1.40	-2.29	-13.00	-60.38
672.14	-71.81	-67.62	-1.48	-2.71	-13.00	-58.81
1673.20	-57.21	-63.11	9.80	-3.90	-13.00	-44.21
2509.80	-41.14	-47.36	11.04	-4.82	-13.00	-28.14

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

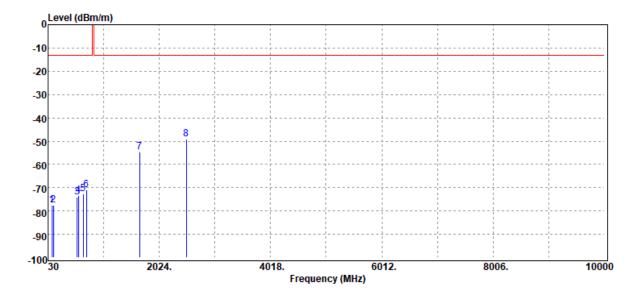
t (886-2) 2299-3279

```
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號
                                                                          www.sgs.com.tw
```



Report No.: ER/2020/C0010-01 Page: 123 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 850	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.6 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
100.81	-77.47	-70.32	-6.20	-0.95	-13.00	-64.47
129.91	-77.56	-68.84	-7.74	-0.98	-13.00	-64.56
553.80	-74.18	-70.64	-1.31	-2.23	-13.00	-61.18
571.26	-73.26	-69.43	-1.52	-2.31	-13.00	-60.26
662.44	-72.62	-68.55	-1.35	-2.72	-13.00	-59.62
719.67	-70.99	-67.16	-1.19	-2.64	-13.00	-57.99
1673.20	-54.54	-60.44	9.80	-3.90	-13.00	-41.54
2509.80	-49.04	-55.26	11.04	-4.82	-13.00	-36.04

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

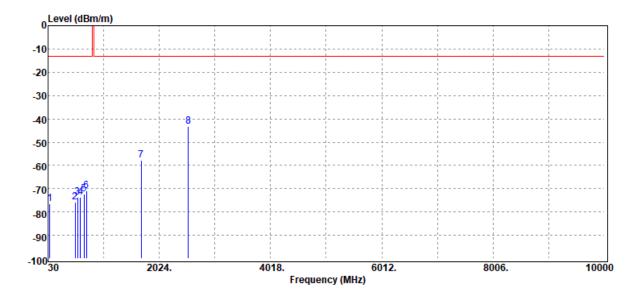
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 124 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 850	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:848.8 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
65.89	-76.34	-62.46	-13.09	-0.79	-13.00	-63.34
519.85	-75.71	-72.14	-1.41	-2.16	-13.00	-62.71
560.59	-73.76	-70.11	-1.37	-2.28	-13.00	-60.76
609.09	-73.81	-69.91	-1.91	-1.99	-13.00	-60.81
672.14	-72.28	-68.09	-1.48	-2.71	-13.00	-59.28
716.76	-70.83	-66.96	-1.28	-2.59	-13.00	-57.83
1697.60	-57.74	-63.61	9.80	-3.93	-13.00	-44.74
2546.40	-43.10	-49.43	11.19	-4.86	-13.00	-30.10

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

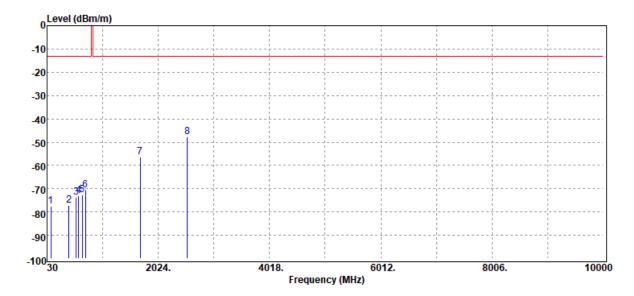
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

l td



Report No.: ER/2020/C0010-01 Page: 125 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 850	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:848.8 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
400.04	77 50	70.07	0.00	0.05	10.00	04.50
100.81	-77.52	-70.37	-6.20	-0.95	-13.00	-64.52
419.94	-77.28	-73.74	-1.46	-2.08	-13.00	-64.28
551.86	-73.79	-70.31	-1.26	-2.22	-13.00	-60.79
594.54	-73.17	-68.88	-1.83	-2.46	-13.00	-60.17
663.41	-72.51	-68.42	-1.36	-2.73	-13.00	-59.51
719.67	-70.42	-66.59	-1.19	-2.64	-13.00	-57.42
1697.60	-56.47	-62.34	9.80	-3.93	-13.00	-43.47
2546.40	-47.64	-53.97	11.19	-4.86	-13.00	-34.64

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

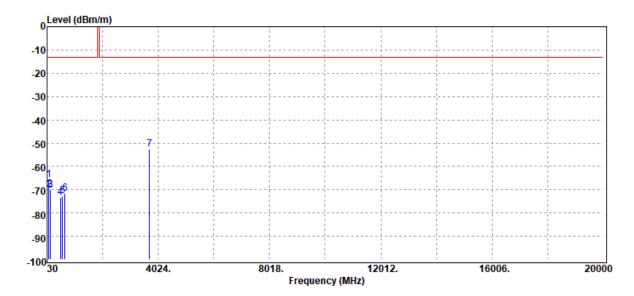
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 126 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 1900	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1850.2 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
97.90	-65.61	-58.88	-5.79	-0.94	-13.00	-52.61
138.64	-69.86	-60.83	-7.95	-1.08	-13.00	-56.86
158.04	-70.22	-61.96	-7.05	-1.21	-13.00	-57.22
517.91	-73.51	-69.86	-1.44	-2.21	-13.00	-60.51
580.96	-72.70	-68.56	-1.66	-2.48	-13.00	-59.70
673.11	-71.63	-67.50	-1.46	-2.67	-13.00	-58.63
3700.40	-52.75	-59.29	12.40	-5.86	-13.00	-39.75

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

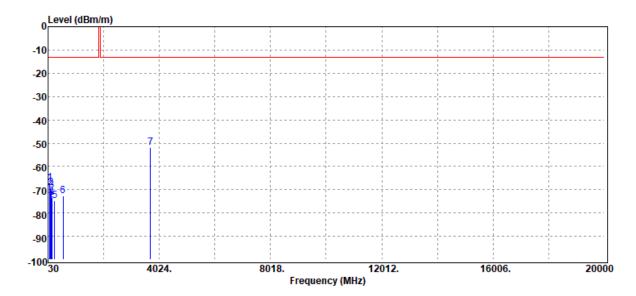
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

l td



Report No.: ER/2020/C0010-01 Page: 127 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 1900	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1850.2 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
99.84	-67.25	-60.29	-6.01	-0.95	-13.00	-54.25
125.06	-69.30	-60.79	-7.49	-1.02	-13.00	-56.30
148.34	-70.37	-61.53	-7.64	-1.20	-13.00	-57.37
168.71	-73.20	-65.90	-6.04	-1.26	-13.00	-60.20
274.44	-74.61	-71.32	-1.75	-1.54	-13.00	-61.61
565.44	-72.77	-69.08	-1.40	-2.29	-13.00	-59.77
3700.40	-51.82	-58.36	12.40	-5.86	-13.00	-38.82

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

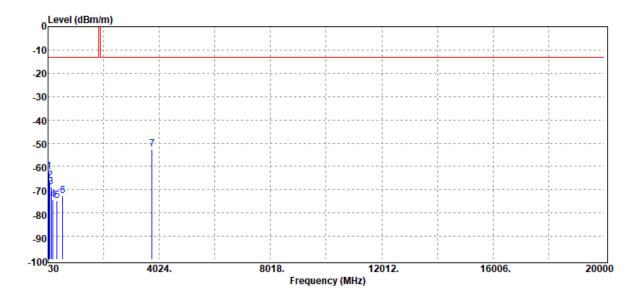
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td

f (886-2) 2298-0488



Report No.: ER/2020/C0010-01 Page: 128 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 1900	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-62.41	-47.05	-14.61	-0.75	-13.00	-49.41
95.96	-66.21	-59.70	-5.58	-0.93	-13.00	-53.21
144.46	-68.84	-59.90	-7.79	-1.15	-13.00	-55.84
216.24	-74.52	-71.35	-1.80	-1.37	-13.00	-61.52
357.86	-74.80	-71.56	-1.51	-1.73	-13.00	-61.80
551.86	-72.60	-69.12	-1.26	-2.22	-13.00	-59.60
3760.00	-52.64	-59.30	12.40	-5.74	-13.00	-39.64

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

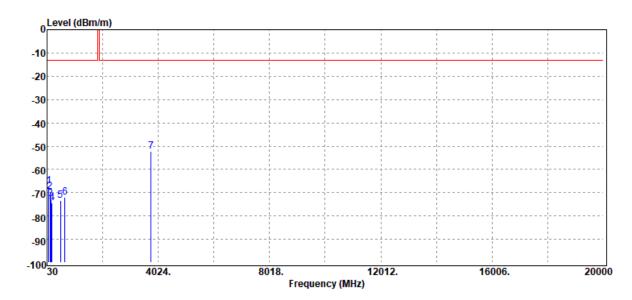
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 129 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 1900	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
100.81	-67.07	-59.92	-6.20	-0.95	-13.00	-54.07
138.64	-69.53	-60.50	-7.95	-1.08	-13.00	-56.53
165.80	-72.55	-64.94	-6.37	-1.24	-13.00	-59.55
209.45	-74.45	-71.37	-1.71	-1.37	-13.00	-61.45
517.91	-73.20	-69.55	-1.44	-2.21	-13.00	-60.20
670.20	-72.06	-67.75	-1.50	-2.81	-13.00	-59.06
3760.00	-52.22	-58.88	12.40	-5.74	-13.00	-39.22

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

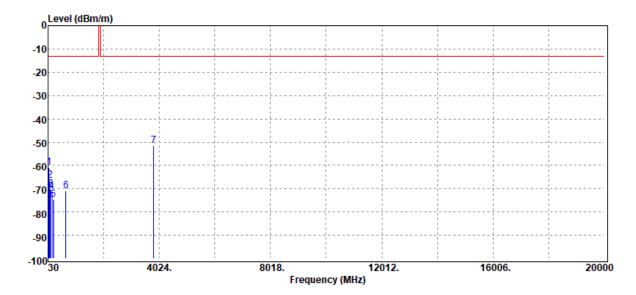
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

l td



Report No.: ER/2020/C0010-01 Page: 130 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 1900	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1909.8 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
65.89	-60.82	-46.94	-13.09	-0.79	-13.00	-47.82
94.99	-66.39	-59.89	-5.57	-0.93	-13.00	-53.39
129.91	-70.25	-61.53	-7.74	-0.98	-13.00	-57.25
165.80	-71.18	-63.57	-6.37	-1.24	-13.00	-58.18
225.94	-74.66	-71.96	-1.30	-1.40	-13.00	-61.66
673.11	-71.08	-66.95	-1.46	-2.67	-13.00	-58.08
3819.60	-51.70	-58.35	12.44	-5.79	-13.00	-38.70

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

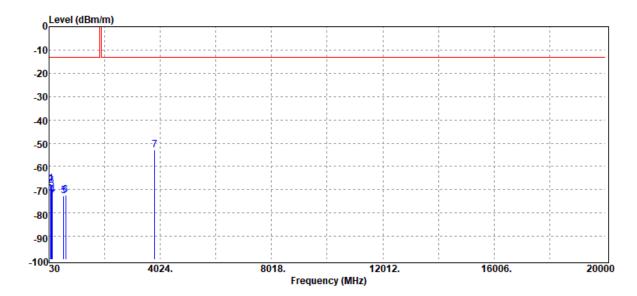
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

l td



Report No.: ER/2020/C0010-01 Page: 131 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:GSM 1900	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1909.8 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
100.81	-67.34	-60.19	-6.20	-0.95	-13.00	-54.34
114.39	-68.15	-59.82	-7.30	-1.03	-13.00	-55.15
136.70	-69.46	-60.50	-7.91	-1.05	-13.00	-56.46
159.01	-72.45	-64.24	-7.00	-1.21	-13.00	-59.45
558.65	-72.78	-69.15	-1.36	-2.27	-13.00	-59.78
624.61	-72.38	-68.39	-1.81	-2.18	-13.00	-59.38
3819.60	-52.82	-59.47	12.44	-5.79	-13.00	-39.82

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

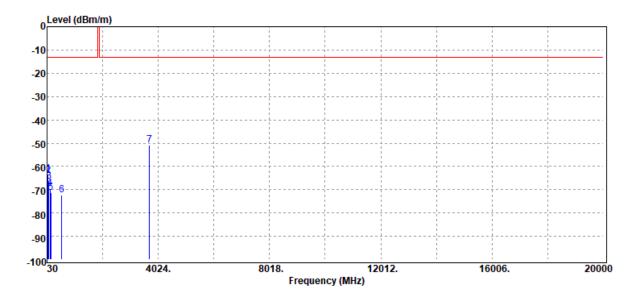
l td

```
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號
                                                                          www.sgs.com.tw
```



Report No.: ER/2020/C0010-01 Page: 132 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B2	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1852.4 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-63.35	-47.99	-14.61	-0.75	-13.00	-50.35
65.89	-64.06	-50.18	-13.09	-0.79	-13.00	-51.06
100.81	-66.51	-59.36	-6.20	-0.95	-13.00	-53.51
144.46	-69.52	-60.58	-7.79	-1.15	-13.00	-56.52
167.74	-71.22	-63.73	-6.23	-1.26	-13.00	-58.22
561.56	-72.37	-68.72	-1.37	-2.28	-13.00	-59.37
3704.80	-50.79	-57.34	12.40	-5.85	-13.00	-37.79

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

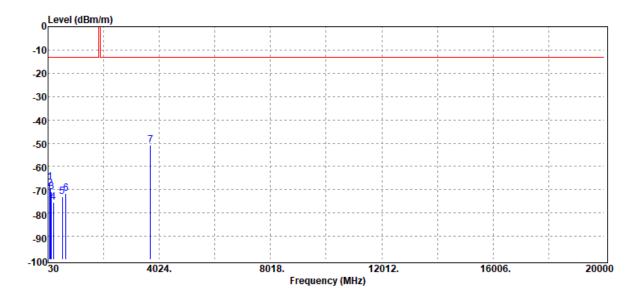
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 133 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B2	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1852.4 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
100.81	-66.84	-59.69	-6.20	-0.95	-13.00	-53.84
110.51	-69.59	-61.47	-7.11	-1.01	-13.00	-56.59
156.10	-70.81	-62.43	-7.17	-1.21	-13.00	-57.81
228.85	-75.50	-72.71	-1.37	-1.42	-13.00	-62.50
546.04	-73.11	-69.82	-1.20	-2.09	-13.00	-60.11
676.99	-71.54	-67.61	-1.45	-2.48	-13.00	-58.54
3704.80	-50.96	-57.51	12.40	-5.85	-13.00	-37.96

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

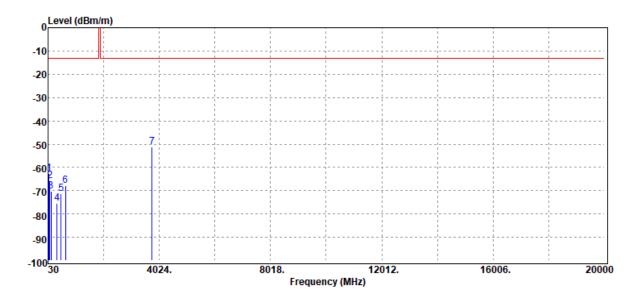
t (886-2) 2299-3279

```
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號
                                                                          www.sgs.com.tw
```



Report No.: ER/2020/C0010-01 Page: 134 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B2	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
63.95	-62.48	-47.80	-13.91	-0.77	-13.00	-49.48
94.99	-65.66	-59.16	-5.57	-0.93	-13.00	-52.66
144.46	-70.36	-61.42	-7.79	-1.15	-13.00	-57.36
359.80	-75.56	-72.35	-1.50	-1.71	-13.00	-62.56
498.51	-71.19	-67.46	-1.50	-2.23	-13.00	-58.19
652.74	-67.67	-63.80	-1.33	-2.54	-13.00	-54.67
3760.00	-51.04	-57.70	12.40	-5.74	-13.00	-38.04

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

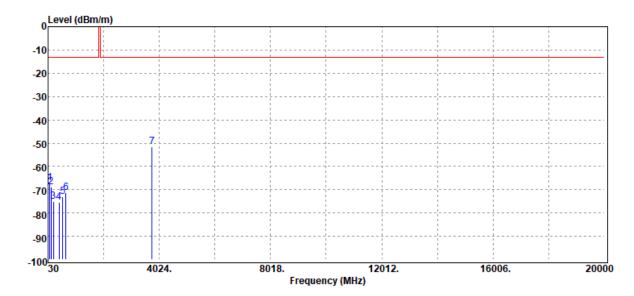
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

l td



Report No.: ER/2020/C0010-01 Page: 135 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B2	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
100.81	-67.16	-60.01	-6.20	-0.95	-13.00	-54.16
139.61	-69.01	-59.99	-7.93	-1.09	-13.00	-56.01
224.00	-74.99	-72.26	-1.34	-1.39	-13.00	-61.99
420.91	-75.60	-72.03	-1.48	-2.09	-13.00	-62.60
553.80	-72.86	-69.32	-1.31	-2.23	-13.00	-59.86
670.20	-71.23	-66.92	-1.50	-2.81	-13.00	-58.23
3760.00	-51.53	-58.19	12.40	-5.74	-13.00	-38.53

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

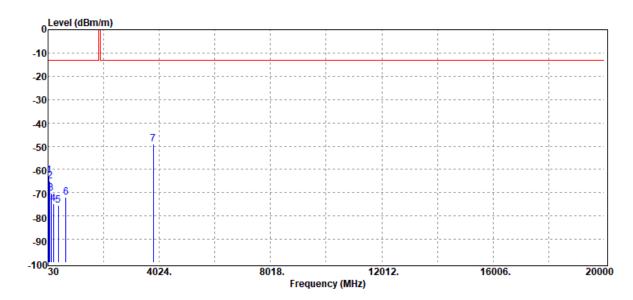
t (886-2) 2299-3279

```
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號
                                                                          www.sgs.com.tw
```



Report No.: ER/2020/C0010-01 Page: 136 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B2	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1907.6 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-62.58	-47.22	-14.61	-0.75	-13.00	-49.58
97.90	-65.07	-58.34	-5.79	-0.94	-13.00	-52.07
143.49	-70.15	-61.17	-7.84	-1.14	-13.00	-57.15
224.00	-74.75	-72.02	-1.34	-1.39	-13.00	-61.75
395.69	-75.58	-72.16	-1.58	-1.84	-13.00	-62.58
672.14	-72.02	-67.83	-1.48	-2.71	-13.00	-59.02
3815.20	-49.05	-55.72	12.43	-5.76	-13.00	-36.05

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

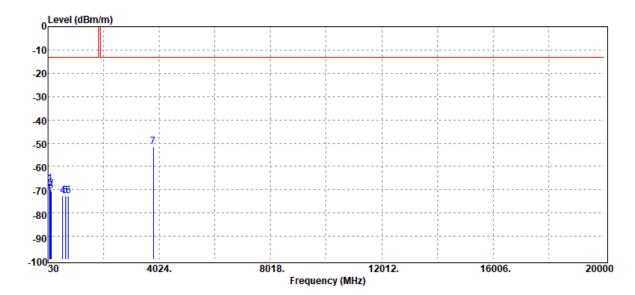
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td



Report No.: ER/2020/C0010-01 Page: 137 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B2	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1907.6 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
97.90	-67.46	-60.73	-5.79	-0.94	-13.00	-54.46
122.15	-69.49	-61.04	-7.40	-1.05	-13.00	-56.49
145.43	-70.60	-61.72	-7.72	-1.16	-13.00	-57.60
556.71	-72.55	-68.94	-1.35	-2.26	-13.00	-59.55
663.41	-72.80	-68.71	-1.36	-2.73	-13.00	-59.80
762.35	-72.72	-68.40	-1.78	-2.54	-13.00	-59.72
3815.20	-51.59	-58.26	12.43	-5.76	-13.00	-38.59

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

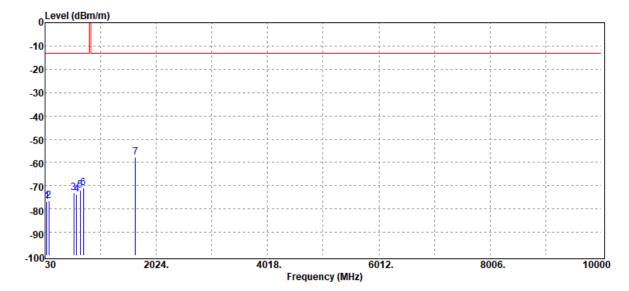
t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td



Report No.: ER/2020/C0010-01 Page: 138 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B5	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:826.4 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
65.89	-76.96	-63.08	-13.09	-0.79	-13.00	-63.96
99.84	-76.36	-69.40	-6.01	-0.95	-13.00	-63.36
547.01	-73.05	-69.72	-1.21	-2.12	-13.00	-60.05
594.54	-73.55	-69.26	-1.83	-2.46	-13.00	-60.55
658.56	-71.98	-67.99	-1.33	-2.66	-13.00	-58.98
721.61	-70.91	-67.00	-1.26	-2.65	-13.00	-57.91
1652.80	-57.73	-63.66	9.80	-3.87	-13.00	-44.73

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

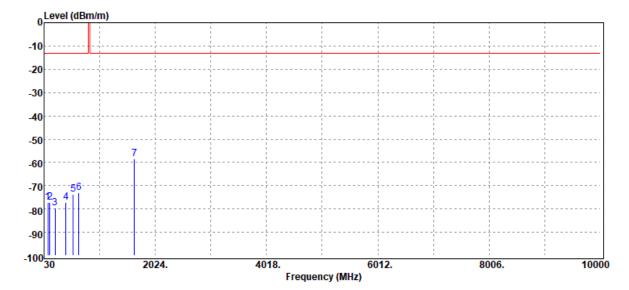
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 139 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B5	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:826.4 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
100.81	-77.24	-70.09	-6.20	-0.95	-13.00	-64.24
136.70	-77.21	-68.25	-7.91	-1.05	-13.00	-64.21
228.85	-79.61	-76.82	-1.37	-1.42	-13.00	-66.61
419.94	-77.14	-73.60	-1.46	-2.08	-13.00	-64.14
553.80	-73.69	-70.15	-1.31	-2.23	-13.00	-60.69
657.59	-73.02	-69.06	-1.32	-2.64	-13.00	-60.02
1652.80	-58.59	-64.52	9.80	-3.87	-13.00	-45.59

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

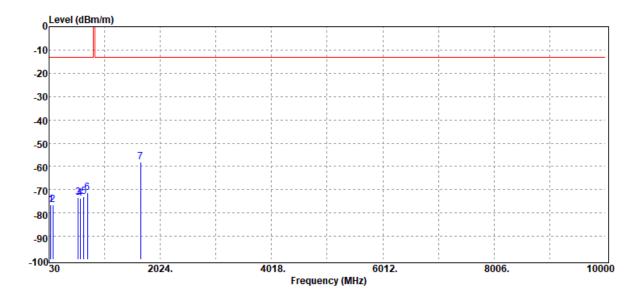
t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td



Report No.: ER/2020/C0010-01 Page: 140 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B5	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.6 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-76.36	-60.45	-15.18	-0.73	-13.00	-63.36
99.84	-76.40	-69.44	-6.01	-0.95	-13.00	-63.40
555.74	-73.50	-69.91	-1.34	-2.25	-13.00	-60.50
590.66	-73.68	-69.28	-1.81	-2.59	-13.00	-60.68
657.59	-72.93	-68.97	-1.32	-2.64	-13.00	-59.93
721.61	-71.24	-67.33	-1.26	-2.65	-13.00	-58.24
1673.20	-58.04	-63.94	9.80	-3.90	-13.00	-45.04

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

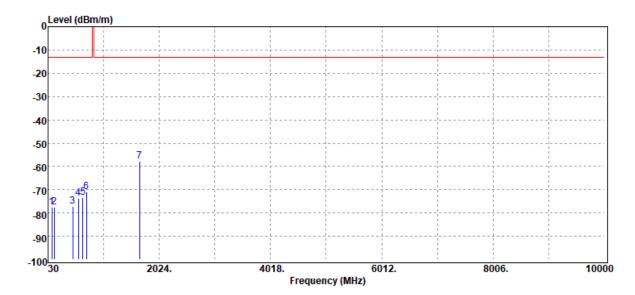
t (886-2) 2299-3279

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td



Report No.: ER/2020/C0010-01 Page: 141 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B5	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.6 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
100.81	-77.58	-70.43	-6.20	-0.95	-13.00	-64.58
139.61	-77.44	-68.42	-7.93	-1.09	-13.00	-64.44
476.20	-77.09	-73.25	-1.77	-2.07	-13.00	-64.09
576.11	-73.65	-69.69	-1.56	-2.40	-13.00	-60.65
650.80	-73.44	-69.58	-1.36	-2.50	-13.00	-60.44
720.64	-71.08	-67.22	-1.21	-2.65	-13.00	-58.08
1673.20	-57.78	-63.68	9.80	-3.90	-13.00	-44.78

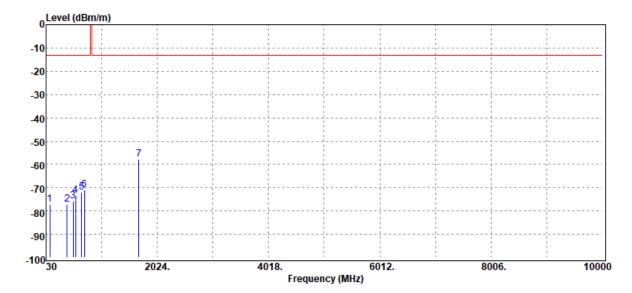
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



Report No.: ER/2020/C0010-01 Page: 142 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B5	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:846.6 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
100.81	-77.00	-69.85	-6.20	-0.95	-13.00	-64.00
411.21	-77.25	-73.96	-1.39	-1.90	-13.00	-64.25
516.94	-75.91	-72.22	-1.46	-2.23	-13.00	-62.91
563.50	-73.31	-69.65	-1.38	-2.28	-13.00	-60.31
668.26	-71.94	-67.69	-1.46	-2.79	-13.00	-58.94
719.67	-71.06	-67.23	-1.19	-2.64	-13.00	-58.06
1693.20	-57.61	-63.49	9.80	-3.92	-13.00	-44.61

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

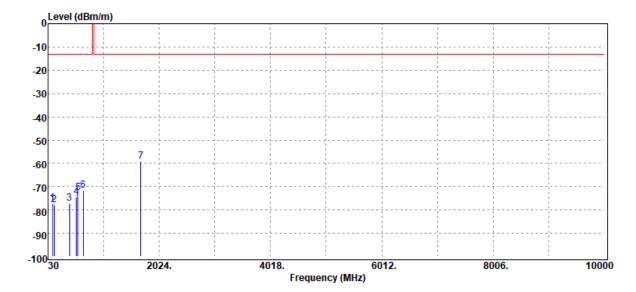
l td

```
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號
                                                                          www.sgs.com.tw
```



Report No.: ER/2020/C0010-01 Page: 143 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:WCMDA B5	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:846.6 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
112.45	-77.33	-69.10	-7.21	-1.02	-13.00	-64.33
144.46	-77.84	-68.90	-7.79	-1.15	-13.00	-64.84
418.00	-77.19	-73.69	-1.46	-2.04	-13.00	-64.19
542.16	-74.43	-71.20	-1.24	-1.99	-13.00	-61.43
568.35	-72.82	-69.06	-1.47	-2.29	-13.00	-59.82
660.50	-71.54	-67.51	-1.34	-2.69	-13.00	-58.54
1693.20	-59.03	-64.91	9.80	-3.92	-13.00	-46.03

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

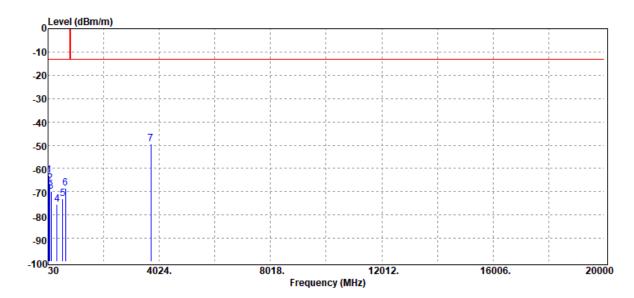
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td



Report No.: ER/2020/C0010-01 Page: 144 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B2	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1860 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-63.13	-47.22	-15.18	-0.73	-13.00	-50.13
97.90	-66.55	-59.82	-5.79	-0.94	-13.00	-53.55
141.55	-69.75	-60.73	-7.91	-1.11	-13.00	-56.75
356.89	-75.58	-72.33	-1.51	-1.74	-13.00	-62.58
560.59	-72.95	-69.30	-1.37	-2.28	-13.00	-59.95
652.74	-68.44	-64.57	-1.33	-2.54	-13.00	-55.44
3720.00	-49.50	-56.08	12.40	-5.82	-13.00	-36.50

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

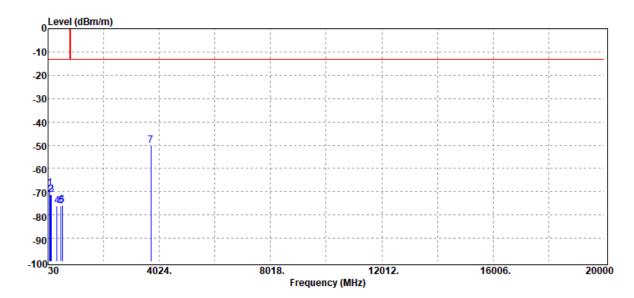
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td



Report No.: ER/2020/C0010-01 Page: 145 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B2	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1860 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
94.99	-68.37	-61.87	-5.57	-0.93	-13.00	-55.37
122.15	-71.33	-62.88	-7.40	-1.05	-13.00	-58.33
146.40	-71.43	-62.53	-7.72	-1.18	-13.00	-58.43
361.74	-75.99	-72.75	-1.53	-1.71	-13.00	-62.99
497.54	-76.05	-72.30	-1.54	-2.21	-13.00	-63.05
547.01	-75.94	-72.61	-1.21	-2.12	-13.00	-62.94
3720.00	-50.14	-56.72	12.40	-5.82	-13.00	-37.14

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

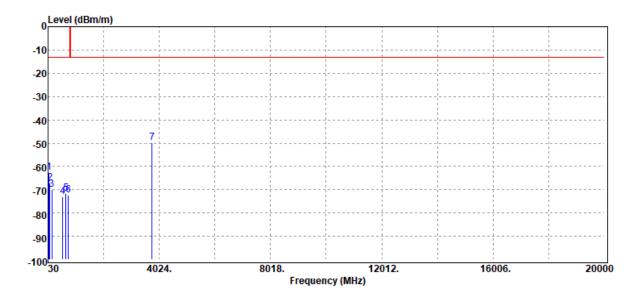
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td



Report No.: ER/2020/C0010-01 Page: 146 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B2	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-62.62	-46.71	-15.18	-0.73	-13.00	-49.62
97.90	-67.00	-60.27	-5.79	-0.94	-13.00	-54.00
160.95	-70.04	-62.03	-6.80	-1.21	-13.00	-57.04
550.89	-72.91	-69.46	-1.24	-2.21	-13.00	-59.91
675.05	-71.53	-67.52	-1.44	-2.57	-13.00	-58.53
757.50	-72.38	-67.87	-1.79	-2.72	-13.00	-59.38
3760.00	-49.87	-56.53	12.40	-5.74	-13.00	-36.87

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

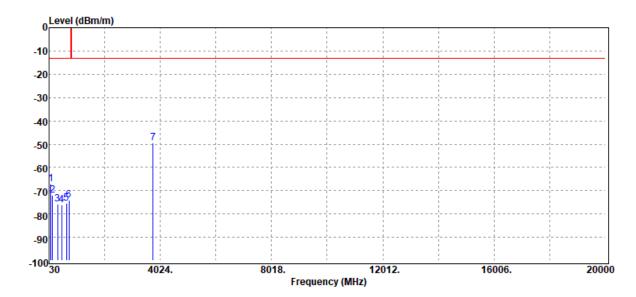
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

l td



Report No.: ER/2020/C0010-01 Page: 147 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B2	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
99.84	-67.11	-60.15	-6.01	-0.95	-13.00	-54.11
149.31	-71.99	-63.17	-7.61	-1.21	-13.00	-58.99
347.19	-75.78	-72.38	-1.56	-1.84	-13.00	-62.78
479.11	-76.19	-72.38	-1.72	-2.09	-13.00	-63.19
660.50	-75.47	-71.44	-1.34	-2.69	-13.00	-62.47
738.10	-74.05	-69.62	-1.69	-2.74	-13.00	-61.05
3760.00	-49.43	-56.09	12.40	-5.74	-13.00	-36.43

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

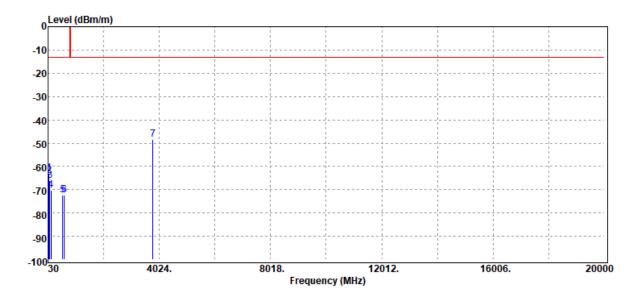
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 148 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B2	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1900 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-62.81	-46.90	-15.18	-0.73	-13.00	-49.81
65.89	-63.89	-50.01	-13.09	-0.79	-13.00	-50.89
94.99	-66.20	-59.70	-5.57	-0.93	-13.00	-53.20
141.55	-70.16	-61.14	-7.91	-1.11	-13.00	-57.16
550.89	-72.35	-68.90	-1.24	-2.21	-13.00	-59.35
612.00	-72.18	-68.31	-1.89	-1.98	-13.00	-59.18
3800.00	-48.46	-55.20	12.40	-5.66	-13.00	-35.46

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

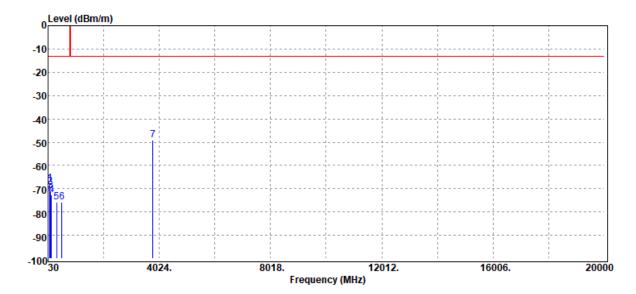
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 149 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B2	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1900 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
91.11	-67.73	-61.18	-5.64	-0.91	-13.00	-54.73
100.81	-69.14	-61.99	-6.20	-0.95	-13.00	-56.14
124.09	-71.09	-62.60	-7.46	-1.03	-13.00	-58.09
146.40	-72.75	-63.85	-7.72	-1.18	-13.00	-59.75
343.31	-75.74	-72.28	-1.61	-1.85	-13.00	-62.74
526.64	-75.73	-72.46	-1.33	-1.94	-13.00	-62.73
3800.00	-49.23	-55.97	12.40	-5.66	-13.00	-36.23

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

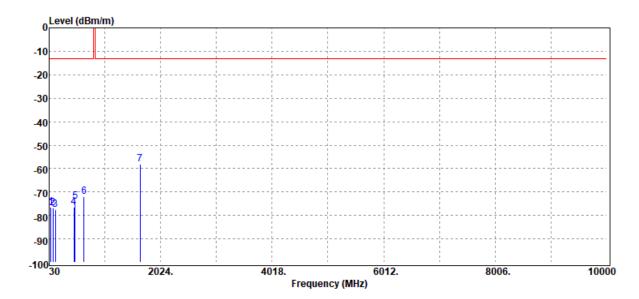
t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td



Report No.: ER/2020/C0010-01 Page: 150 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B5	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:829 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-76.54	-60.63	-15.18	-0.73	-13.00	-63.54
100.81	-76.80	-69.65	-6.20	-0.95	-13.00	-63.80
138.64	-77.39	-68.36	-7.95	-1.08	-13.00	-64.39
476.20	-76.58	-72.74	-1.77	-2.07	-13.00	-63.58
498.51	-74.14	-70.41	-1.50	-2.23	-13.00	-61.14
655.65	-71.97	-68.06	-1.31	-2.60	-13.00	-58.97
1658.00	-58.10	-64.02	9.80	-3.88	-13.00	-45.10

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

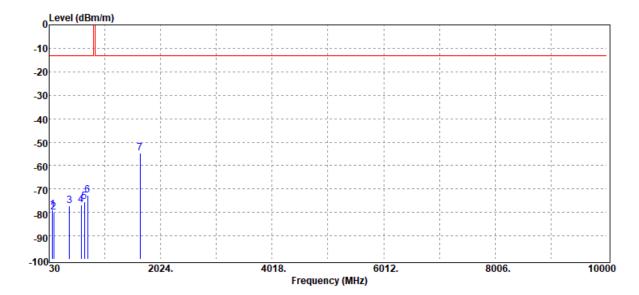
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td

f (886-2) 2298-0488



Report No.: ER/2020/C0010-01 Page: 151 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B5	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:829 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
94.02	-79.00	-72.61	-5.47	-0.92	-13.00	-66.00
115.36	-80.00	-71.67	-7.29	-1.04	-13.00	-67.00
390.84	-77.06	-73.74	-1.52	-1.80	-13.00	-64.06
605.21	-76.97	-72.97	-1.89	-2.11	-13.00	-63.97
662.44	-75.53	-71.46	-1.35	-2.72	-13.00	-62.53
718.70	-72.80	-68.95	-1.22	-2.63	-13.00	-59.80
1658.00	-54.58	-60.50	9.80	-3.88	-13.00	-41.58

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

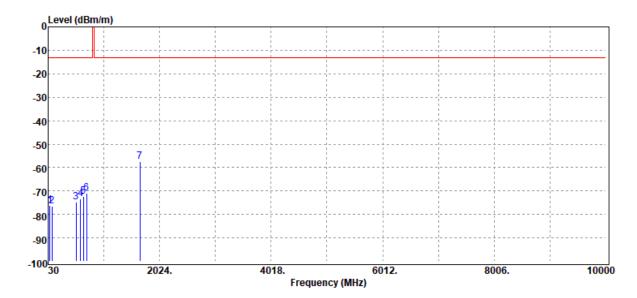
t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td



Report No.: ER/2020/C0010-01 Page: 152 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B5	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.5 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-76.29	-60.93	-14.61	-0.75	-13.00	-63.29
97.90	-76.63	-69.90	-5.79	-0.94	-13.00	-63.63
534.40	-74.70	-71.47	-1.36	-1.87	-13.00	-61.70
613.94	-73.29	-69.43	-1.86	-2.00	-13.00	-60.29
662.44	-72.45	-68.38	-1.35	-2.72	-13.00	-59.45
719.67	-71.01	-67.18	-1.19	-2.64	-13.00	-58.01
1673.00	-57.29	-63.19	9.80	-3.90	-13.00	-44.29

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

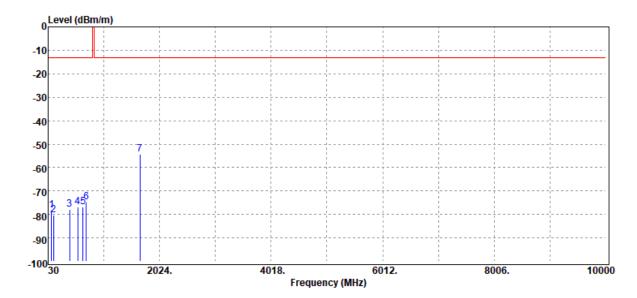
t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td



Report No.: ER/2020/C0010-01 Page: 153 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B5	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.5 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
94.02	-78.27	-71.88	-5.47	-0.92	-13.00	-65.27
127.00	-80.37	-71.71	-7.65	-1.01	-13.00	-67.37
416.06	-77.90	-74.44	-1.46	-2.00	-13.00	-64.90
560.59	-76.74	-73.09	-1.37	-2.28	-13.00	-63.74
655.65	-76.72	-72.81	-1.31	-2.60	-13.00	-63.72
711.91	-74.75	-70.85	-1.38	-2.52	-13.00	-61.75
1673.00	-54.46	-60.36	9.80	-3.90	-13.00	-41.46

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

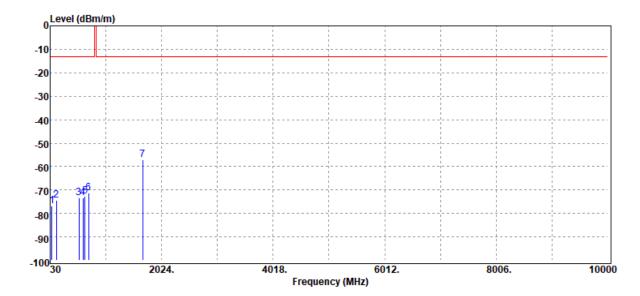
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td

f (886-2) 2298-0488



Report No.: ER/2020/C0010-01 Page: 154 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B5	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:844 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-76.88	-61.52	-14.61	-0.75	-13.00	-63.88
143.49	-74.47	-65.49	-7.84	-1.14	-13.00	-61.47
546.04	-73.40	-70.11	-1.20	-2.09	-13.00	-60.40
616.85	-73.31	-69.46	-1.82	-2.03	-13.00	-60.31
655.65	-72.79	-68.88	-1.31	-2.60	-13.00	-59.79
715.79	-71.18	-67.28	-1.32	-2.58	-13.00	-58.18
1688.00	-57.23	-63.11	9.80	-3.92	-13.00	-44.23

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

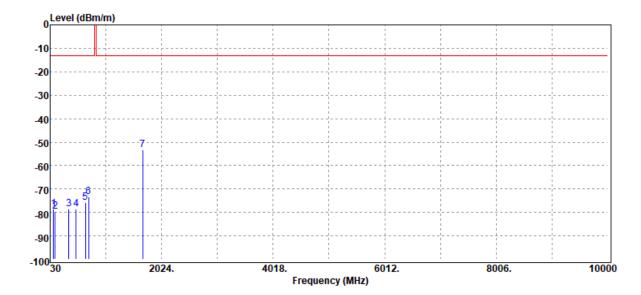
l td

```
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號
                                                                          www.sgs.com.tw
```



Report No.: ER/2020/C0010-01 Page: 155 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B5	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:844 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
93.05	-78.41	-71.94	-5.55	-0.92	-13.00	-65.41
120.21	-79.65	-71.24	-7.35	-1.06	-13.00	-66.65
367.56	-78.38	-75.08	-1.57	-1.73	-13.00	-65.38
493.66	-78.54	-74.75	-1.63	-2.16	-13.00	-65.54
658.56	-75.68	-71.69	-1.33	-2.66	-13.00	-62.68
719.67	-73.50	-69.67	-1.19	-2.64	-13.00	-60.50
1688.00	-53.37	-59.25	9.80	-3.92	-13.00	-40.37

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

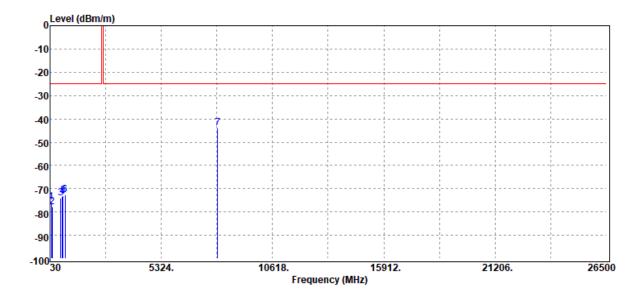
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 156 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B7	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2510 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
94.99	-75.93	-69.43	-5.57	-0.93	-25.00	-50.93
139.61	-77.72	-68.70	-7.93	-1.09	-25.00	-52.72
547.01	-74.12	-70.79	-1.21	-2.12	-25.00	-49.12
614.91	-73.37	-69.51	-1.85	-2.01	-25.00	-48.37
653.71	-73.01	-69.13	-1.32	-2.56	-25.00	-48.01
744.89	-72.68	-68.06	-1.78	-2.84	-25.00	-47.68
8000.00	-44.06	-46.35	11.10	-8.81	-25.00	-19.06

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

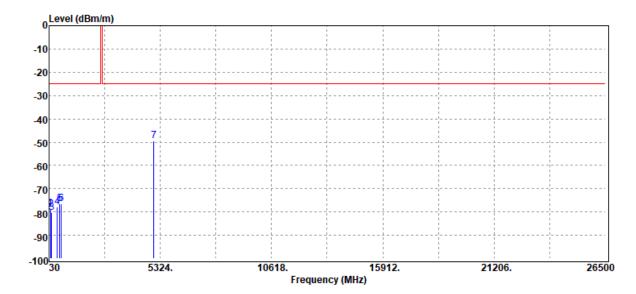
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

l td



Report No.: ER/2020/C0010-01 Page: 157 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B7	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2510 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
93.05	-78.43	-71.96	-5.55	-0.92	-25.00	-53.43
120.21	-79.01	-70.60	-7.35	-1.06	-25.00	-54.01
153.19	-80.37	-71.83	-7.32	-1.22	-25.00	-55.37
419.94	-77.76	-74.22	-1.46	-2.08	-25.00	-52.76
532.46	-76.57	-73.37	-1.35	-1.85	-25.00	-51.57
607.15	-76.47	-72.52	-1.90	-2.05	-25.00	-51.47
5020.00	-49.60	-55.41	12.66	-6.85	-25.00	-24.60

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

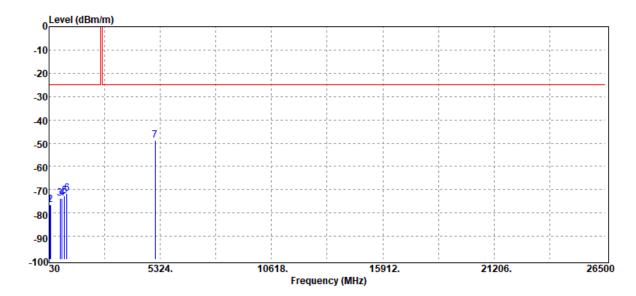
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 158 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B7	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2535 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-76.34	-60.98	-14.61	-0.75	-25.00	-51.34
97.90	-76.53	-69.80	-5.79	-0.94	-25.00	-51.53
563.50	-73.60	-69.94	-1.38	-2.28	-25.00	-48.60
650.80	-73.56	-69.70	-1.36	-2.50	-25.00	-48.56
760.41	-72.77	-68.32	-1.81	-2.64	-25.00	-47.77
881.66	-71.55	-67.10	-1.45	-3.00	-25.00	-46.55
5070.00	-48.76	-54.52	12.56	-6.80	-25.00	-23.76

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

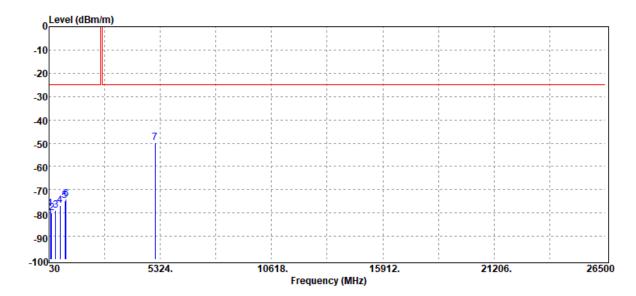
l td

```
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號
                                                                          www.sgs.com.tw
```



Report No.: ER/2020/C0010-01 Page: 159 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B7	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2535 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
97.90	-78.23	-71.50	-5.79	-0.94	-25.00	-53.23
146.40	-79.97	-71.07	-7.72	-1.18	-25.00	-54.97
352.04	-78.85	-75.50	-1.54	-1.81	-25.00	-53.85
551.86	-76.78	-73.30	-1.26	-2.22	-25.00	-51.78
778.84	-74.64	-70.66	-1.72	-2.26	-25.00	-49.64
839.95	-74.16	-69.64	-1.64	-2.88	-25.00	-49.16
5070.00	-49.74	-55.50	12.56	-6.80	-25.00	-24.74

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

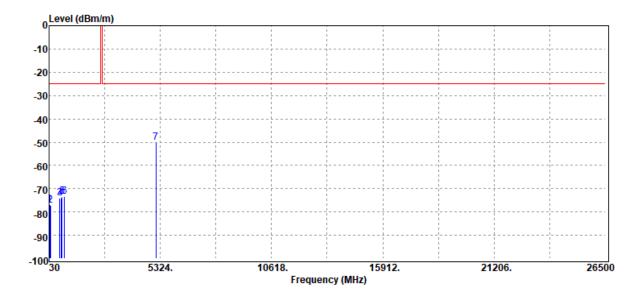
t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. l td



Report No.: ER/2020/C0010-01 Page: 160 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B7	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2560 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-76.94	-61.58	-14.61	-0.75	-25.00	-51.94
100.81	-77.21	-70.06	-6.20	-0.95	-25.00	-52.21
531.49	-74.15	-70.96	-1.35	-1.84	-25.00	-49.15
587.75	-73.93	-69.60	-1.75	-2.58	-25.00	-48.93
650.80	-73.50	-69.64	-1.36	-2.50	-25.00	-48.50
774.96	-73.40	-69.34	-1.84	-2.22	-25.00	-48.40
5120.00	-50.00	-55.73	12.58	-6.85	-25.00	-25.00

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

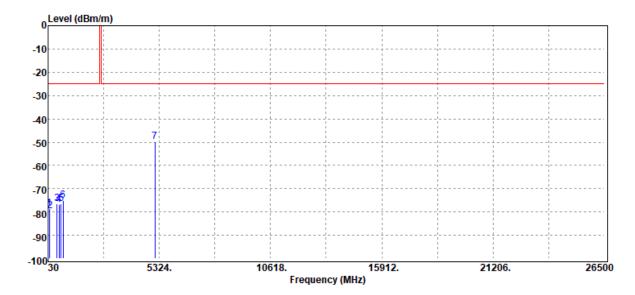
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

l td



Report No.: ER/2020/C0010-01 Page: 161 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B7	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2560 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
90.14	-78.58	-71.87	-5.81	-0.90	-25.00	-53.58
119.24	-79.68	-71.30	-7.32	-1.06	-25.00	-54.68
459.71	-76.63	-72.77	-1.98	-1.88	-25.00	-51.63
551.86	-76.80	-73.32	-1.26	-2.22	-25.00	-51.80
648.86	-76.63	-72.76	-1.38	-2.49	-25.00	-51.63
741.01	-74.93	-70.40	-1.75	-2.78	-25.00	-49.93
5120.00	-49.71	-55.44	12.58	-6.85	-25.00	-24.71

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

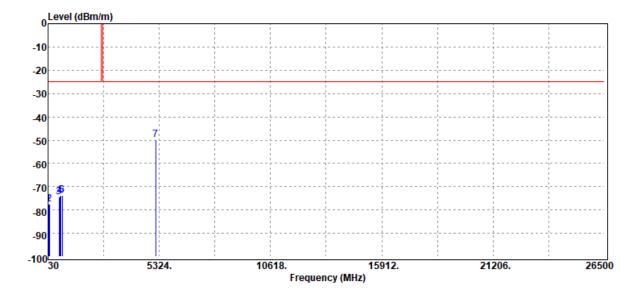
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

t (886-2) 2299-3279 f (886-2) 2298-0488



Report No.: ER/2020/C0010-01 Page: 162 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B38	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2580 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-77.64	-61.73	-15.18	-0.73	-25.00	-52.64
97.90	-77.63	-70.90	-5.79	-0.94	-25.00	-52.63
550.89	-74.50	-71.05	-1.24	-2.21	-25.00	-49.50
592.60	-73.98	-69.64	-1.82	-2.52	-25.00	-48.98
650.80	-73.78	-69.92	-1.36	-2.50	-25.00	-48.78
718.70	-73.72	-69.87	-1.22	-2.63	-25.00	-48.72
5160.00	-49.74	-55.49	12.76	-7.01	-25.00	-24.74

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

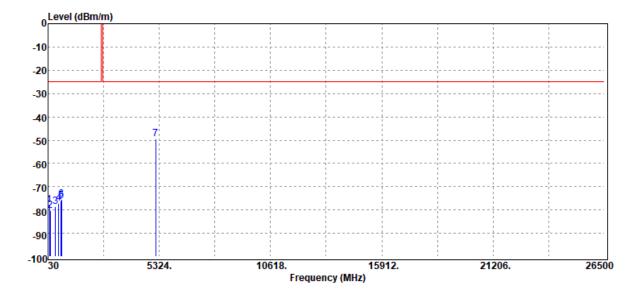
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 163 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B38	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2580 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
100.81	-77.74	-70.59	-6.20	-0.95	-25.00	-52.74
144.46	-80.11	-71.17	-7.79	-1.15	-25.00	-55.11
388.90	-78.49	-75.18	-1.51	-1.80	-25.00	-53.49
534.40	-77.19	-73.96	-1.36	-1.87	-25.00	-52.19
653.71	-76.28	-72.40	-1.32	-2.56	-25.00	-51.28
677.96	-75.58	-71.68	-1.46	-2.44	-25.00	-50.58
5160.00	-49.61	-55.36	12.76	-7.01	-25.00	-24.61

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

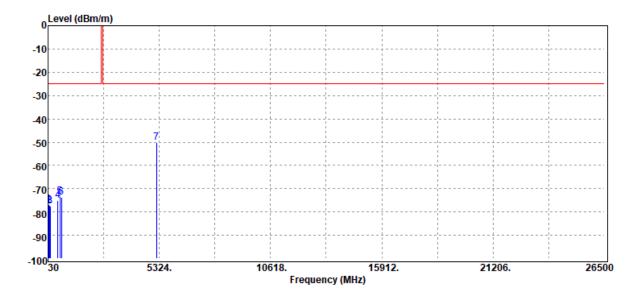
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 164 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B38	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2595 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-76.68	-61.32	-14.61	-0.75	-25.00	-51.68
97.90	-77.33	-70.60	-5.79	-0.94	-25.00	-52.33
144.46	-77.54	-68.60	-7.79	-1.15	-25.00	-52.54
498.51	-75.00	-71.27	-1.50	-2.23	-25.00	-50.00
599.39	-73.49	-69.34	-1.86	-2.29	-25.00	-48.49
662.44	-73.58	-69.51	-1.35	-2.72	-25.00	-48.58
5190.00	-50.05	-55.86	12.94	-7.13	-25.00	-25.05

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

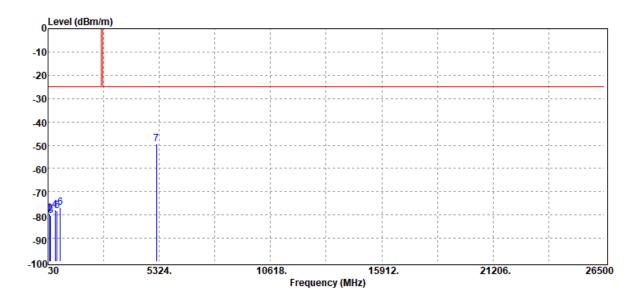
t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Report No.: ER/2020/C0010-01 Page: 165 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B38	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2595 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
88.20	-79.35	-72.26	-6.20	-0.89	-25.00	-54.35
125.06	-79.75	-71.24	-7.49	-1.02	-25.00	-54.75
148.34	-80.11	-71.27	-7.64	-1.20	-25.00	-55.11
359.80	-78.00	-74.79	-1.50	-1.71	-25.00	-53.00
469.41	-78.05	-74.23	-1.81	-2.01	-25.00	-53.05
605.21	-76.88	-72.88	-1.89	-2.11	-25.00	-51.88
5190.00	-49.33	-55.14	12.94	-7.13	-25.00	-24.33

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

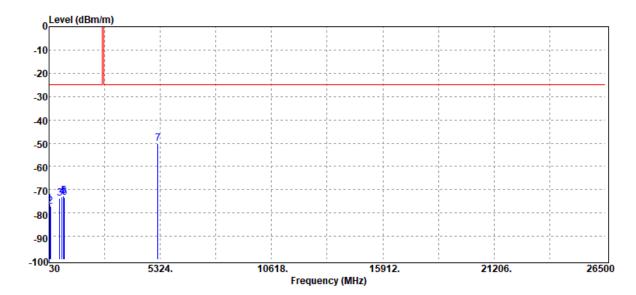
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 166 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B38	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2610 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-76.19	-60.83	-14.61	-0.75	-25.00	-51.19
98.87	-77.21	-70.37	-5.90	-0.94	-25.00	-52.21
541.19	-73.69	-70.47	-1.26	-1.96	-25.00	-48.69
658.56	-73.17	-69.18	-1.33	-2.66	-25.00	-48.17
728.40	-72.73	-68.62	-1.45	-2.66	-25.00	-47.73
776.90	-73.30	-69.28	-1.78	-2.24	-25.00	-48.30
5220.00	-50.24	-56.19	13.12	-7.17	-25.00	-25.24

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

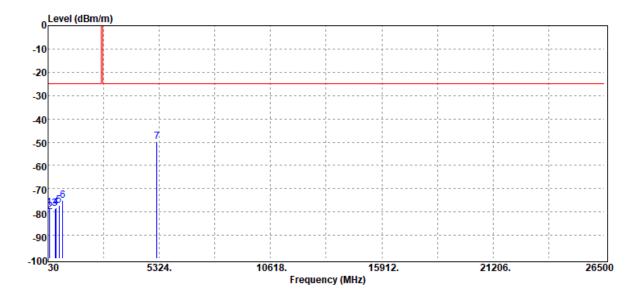
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 167 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B38	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2610 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
97.90	-78.08	-71.35	-5.79	-0.94	-25.00	-53.08
120.21	-80.10	-71.69	-7.35	-1.06	-25.00	-55.10
356.89	-78.60	-75.35	-1.51	-1.74	-25.00	-53.60
411.21	-78.19	-74.90	-1.39	-1.90	-25.00	-53.19
558.65	-77.21	-73.58	-1.36	-2.27	-25.00	-52.21
733.25	-75.06	-70.82	-1.55	-2.69	-25.00	-50.06
5220.00	-49.91	-55.86	13.12	-7.17	-25.00	-24.91

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

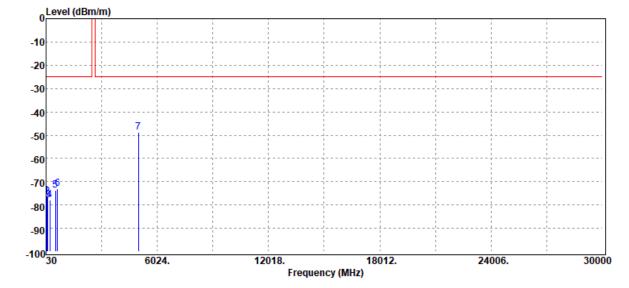


Report No.: ER/2020/C0010-01 Page: 168 of 207

LTE Band 41 Mode_Main

Report Number	:ER/2020/C0010	Test Site
Operation Mode	:LTE B41	Test Date
Test Mode	:Tx CH Low	Temp./Humi.
EUT Pol	:H Plane	Antenna Pol
Test Frequency	:2506 MHz	Engineer

:SAC I Chamber
:2020-12-22
:22.0/64
:VERTICAL
:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-76.04	-60.68	-14.61	-0.75	-25.00	-51.04
97.90	-76.57	-69.84	-5.79	-0.94	-25.00	-51.57
134.76	-78.00	-69.06	-7.91	-1.03	-25.00	-53.00
240.49	-77.76	-74.56	-1.72	-1.48	-25.00	-52.76
544.10	-73.70	-70.45	-1.21	-2.04	-25.00	-48.70
657.59	-73.05	-69.09	-1.32	-2.64	-25.00	-48.05
5012.00	-48.66	-54.48	12.68	-6.86	-25.00	-23.66

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

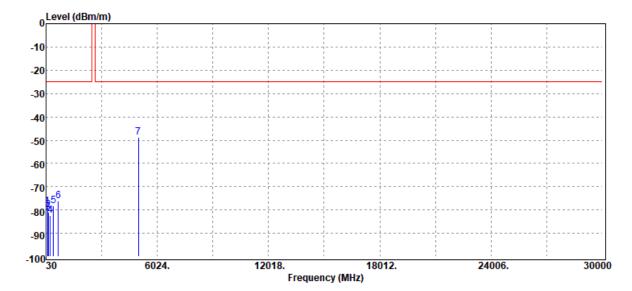
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

td.



Report No.: ER/2020/C0010-01 Page: 169 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2506 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
97.90	-78.49	-71.76	-5.79	-0.94	-25.00	-53.49
122.15	-79.81	-71.36	-7.40	-1.05	-25.00	-54.81
144.46	-80.84	-71.90	-7.79	-1.15	-25.00	-55.84
262.80	-82.42	-79.24	-1.65	-1.53	-25.00	-57.42
420.91	-78.19	-74.62	-1.48	-2.09	-25.00	-53.19
689.60	-76.23	-72.73	-1.45	-2.05	-25.00	-51.23
5012.00	-48.74	-54.56	12.68	-6.86	-25.00	-23.74

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

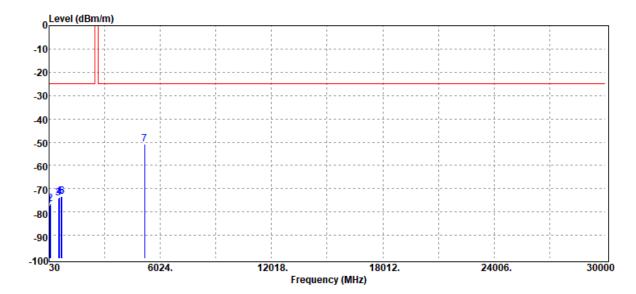
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 170 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2593 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-77.27	-61.91	-14.61	-0.75	-25.00	-52.27
97.90	-76.64	-69.91	-5.79	-0.94	-25.00	-51.64
537.31	-74.08	-70.86	-1.32	-1.90	-25.00	-49.08
587.75	-73.74	-69.41	-1.75	-2.58	-25.00	-48.74
668.26	-73.44	-69.19	-1.46	-2.79	-25.00	-48.44
730.34	-73.22	-69.09	-1.47	-2.66	-25.00	-48.22
5186.00	-50.85	-56.66	12.92	-7.11	-25.00	-25.85

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

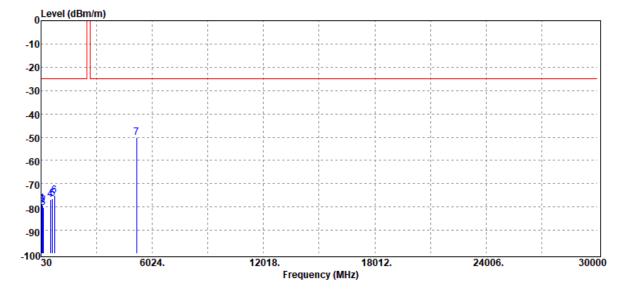
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

l td



Report No.: ER/2020/C0010-01 Page: 171 of 207

Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2593 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
93.05	-78.62	-72.15	-5.55	-0.92	-25.00	-53.62
122.15	-79.35	-70.90	-7.40	-1.05	-25.00	-54.35
148.34	-80.24	-71.40	-7.64	-1.20	-25.00	-55.24
544.10	-76.98	-73.73	-1.21	-2.04	-25.00	-51.98
648.86	-76.51	-72.64	-1.38	-2.49	-25.00	-51.51
752.65	-75.05	-70.45	-1.75	-2.85	-25.00	-50.05
5186.00	-50.10	-55.91	12.92	-7.11	-25.00	-25.10

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

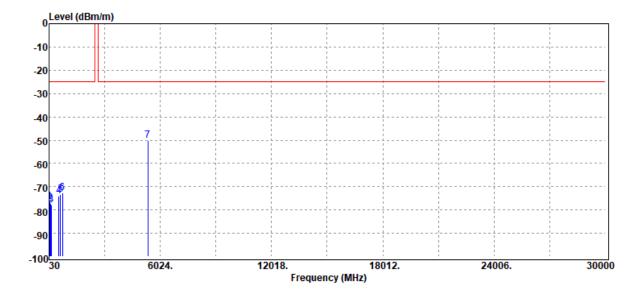
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488



Report No.: ER/2020/C0010-01 Page: 172 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2680 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-76.37	-60.46	-15.18	-0.73	-25.00	-51.37
99.84	-77.13	-70.17	-6.01	-0.95	-25.00	-52.13
143.49	-77.89	-68.91	-7.84	-1.14	-25.00	-52.89
555.74	-74.21	-70.62	-1.34	-2.25	-25.00	-49.21
652.74	-73.22	-69.35	-1.33	-2.54	-25.00	-48.22
749.74	-72.60	-67.96	-1.73	-2.91	-25.00	-47.60
5360.00	-50.16	-56.60	13.48	-7.04	-25.00	-25.16

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

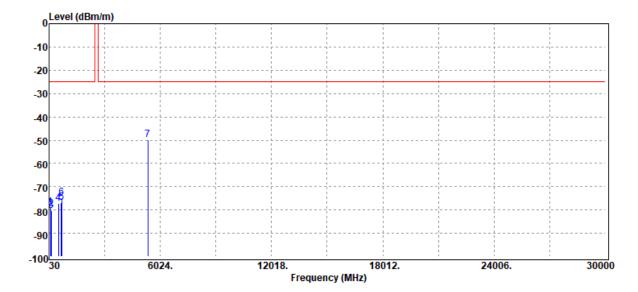
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

l td



Report No.: ER/2020/C0010-01 Page: 173 of 207

	•		
Report Number	:ER/2020/C0010	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2680 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
99.84	-78.79	-71.83	-6.01	-0.95	-25.00	-53.79
125.06	-79.48	-70.97	-7.49	-1.02	-25.00	-54.48
154.16	-80.28	-71.79	-7.27	-1.22	-25.00	-55.28
548.95	-77.10	-73.71	-1.22	-2.17	-25.00	-52.10
682.81	-76.72	-73.02	-1.44	-2.26	-25.00	-51.72
721.61	-74.89	-70.98	-1.26	-2.65	-25.00	-49.89
5360.00	-49.87	-56.31	13.48	-7.04	-25.00	-24.87

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

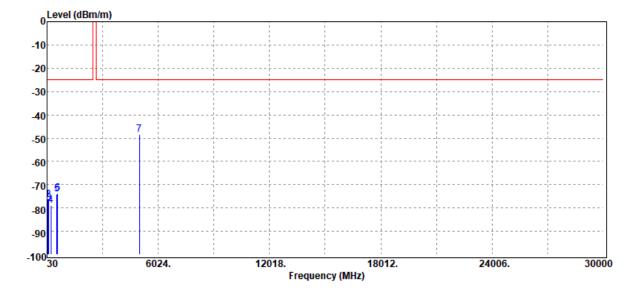
t (886-2) 2299-3279





LTE Band 41 Mode_Sub

Report Number	:ER/2020/C0010-01	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH Low	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2506 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-76.33	-60.42	-15.18	-0.73	-25.00	-51.33
97.90	-76.60	-69.87	-5.79	-0.94	-25.00	-51.60
128.94	-77.69	-69.09	-7.61	-0.99	-25.00	-52.69
241.46	-78.79	-75.58	-1.73	-1.48	-25.00	-53.79
555.74	-74.18	-70.59	-1.34	-2.25	-25.00	-49.18
607.15	-73.77	-69.82	-1.90	-2.05	-25.00	-48.77
5012.00	-48.30	-54.12	12.68	-6.86	-25.00	-23.30

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

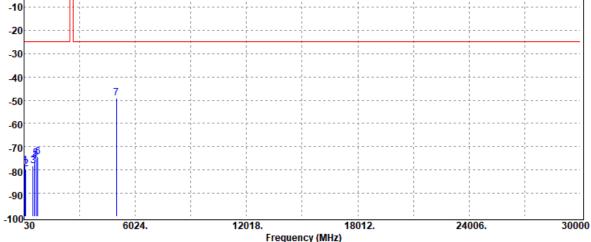
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 175 of 207

Report Number	:ER/2020/C0010-01		Test Site	:SAC I Chamber
Operation Mode	:LTE B41		Test Date	:2020-12-22
Test Mode	:Tx CH Low	:Tx CH Low		:22.0/64
EUT Pol	:H Plane		Antenna Pol.	:HORIZONTAL
Test Frequency	:2506 MHz		Engineer	:Neo Tsai
Level (dBm/m)				
-10				
-10		!	i i i	1



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
94.99	-78.07	-71.57	-5.57	-0.93	-25.00	-53.07
117.30	-79.75	-71.36	-7.34	-1.05	-25.00	-54.75
516.94	-78.04	-74.35	-1.46	-2.23	-25.00	-53.04
602.30	-76.44	-72.36	-1.88	-2.20	-25.00	-51.44
675.05	-75.25	-71.24	-1.44	-2.57	-25.00	-50.25
776.90	-74.23	-70.21	-1.78	-2.24	-25.00	-49.23
5012.00	-49.30	-55.12	12.68	-6.86	-25.00	-24.30

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

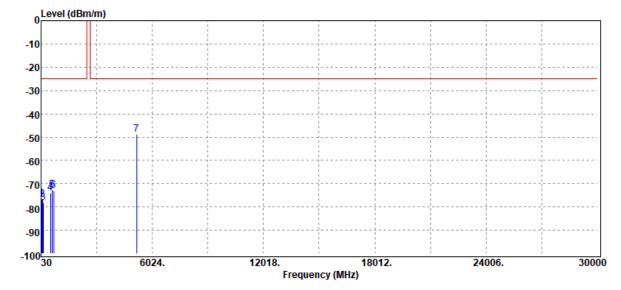
t (886-2) 2299-3279

```
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號
                                                                          www.sgs.com.tw
```



Report No.: ER/2020/C0010-01 Page: 176 of 207

Report Number	:ER/2020/C0010-01	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2593 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-76.60	-60.69	-15.18	-0.73	-25.00	-51.60
97.90	-76.70	-69.97	-5.79	-0.94	-25.00	-51.70
154.16	-78.15	-69.66	-7.27	-1.22	-25.00	-53.15
529.55	-74.20	-71.02	-1.34	-1.84	-25.00	-49.20
626.55	-72.49	-68.53	-1.73	-2.23	-25.00	-47.49
721.61	-72.95	-69.04	-1.26	-2.65	-25.00	-47.95
5186.00	-48.76	-54.57	12.92	-7.11	-25.00	-23.76

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

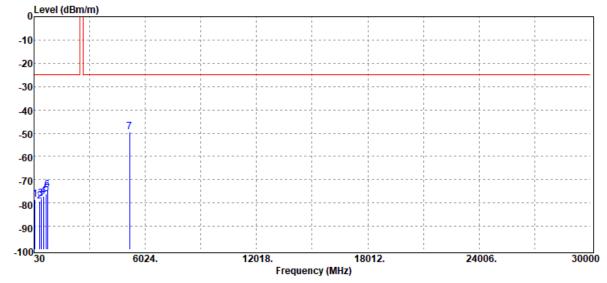
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



Report No.: ER/2020/C0010-01 Page: 177 of 207

Report Number	:ER/2020/C0010-01	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH Mid	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2593 MHz	Engineer	:Neo Tsai



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
94.02	-78.65	-72.26	-5.47	-0.92	-25.00	-53.65
347.19	-79.36	-75.96	-1.56	-1.84	-25.00	-54.36
400.54	-78.06	-74.71	-1.48	-1.87	-25.00	-53.06
547.01	-77.02	-73.69	-1.21	-2.12	-25.00	-52.02
681.84	-76.27	-72.54	-1.45	-2.28	-25.00	-51.27
752.65	-74.37	-69.77	-1.75	-2.85	-25.00	-49.37
5186.00	-49.47	-55.28	12.92	-7.11	-25.00	-24.47

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

t (886-2) 2299-3279 f (886-2) 2298-0488



Report No.: ER/2020/C0010-01 Page: 178 of 207

Report Number	:ER/2020/C0010-01	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2680 MHz	Engineer	:Neo Tsai
0 Level (dBm/m)			



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-76.45	-60.54	-15.18	-0.73	-25.00	-51.45
100.81	-77.34	-70.19	-6.20	-0.95	-25.00	-52.34
143.49	-78.02	-69.04	-7.84	-1.14	-25.00	-53.02
555.74	-73.25	-69.66	-1.34	-2.25	-25.00	-48.25
602.30	-73.51	-69.43	-1.88	-2.20	-25.00	-48.51
675.05	-73.51	-69.50	-1.44	-2.57	-25.00	-48.51
5360.00	-50.03	-56.47	13.48	-7.04	-25.00	-25.03

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

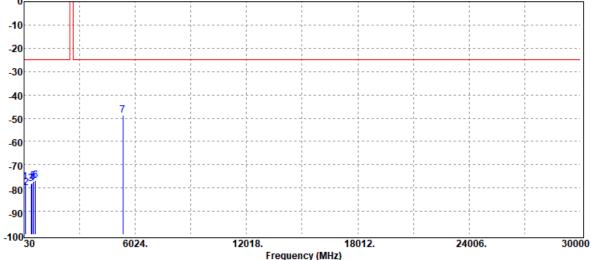
t (886-2) 2299-3279

```
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號
                                                                          www.sgs.com.tw
```



Report No.: ER/2020/C0010-01 Page: 179 of 207

Report Number	:ER/2020/C0010-01	Test Site	:SAC I Chamber
Operation Mode	:LTE B41	Test Date	:2020-12-22
Test Mode	:Tx CH High	Temp./Humi.	:22.0/64
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2680 MHz	Engineer	:Neo Tsai
0 Level (dBm/m)			



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
100.81	-77.62	-70.47	-6.20	-0.95	-25.00	-52.62
131.85	-80.04	-71.31	-7.73	-1.00	-25.00	-55.04
405.39	-78.19	-74.85	-1.47	-1.87	-25.00	-53.19
476.20	-77.76	-73.92	-1.77	-2.07	-25.00	-52.76
541.19	-77.00	-73.78	-1.26	-1.96	-25.00	-52.00
650.80	-76.97	-73.11	-1.36	-2.50	-25.00	-51.97
5360.00	-48.86	-55.30	13.48	-7.04	-25.00	-23.86

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

l td

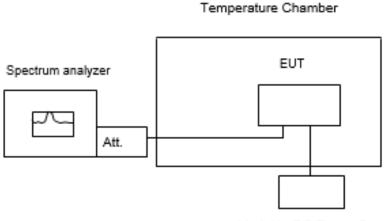


10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

10.2 Test Set-up



Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25° . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



10.4 **Measurement Equipment Used**

Conduc	Conducted Emission (measured at antenna port) Test Site							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
PXA Spectrum Ana- lyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021			
DC Power Supply	Agilent	E3640A	KR93300208	08/19/2020	08/18/2021			
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021			
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021			
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021			
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021			
Splitter	RF-LAMBAD	RFLT2W1G1 8G	11-JSPF412- 018	01/02/2020	01/01/2021			
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021			

10.5 **Measurement Result**

Note: The battery is rated 3.85V dc.

Test Date: Dec. 16, 2020

GPRS 850 Mid Channel 836.6 MHz						
		Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)		
FREQUENCY ERROR vs. VOLTAGE						
4.235	20	836.599997	-3	2091		
3.85	20	836.599991	-9	2091		
3.465	20	836.600005	5	2091		
3.1 (End point)	20	836.600008	8	2091		
FREQUENCY ERROR vs. Temp.						
3.85	50	836.599999	-1	2091		
3.85	40	836.600006	6	2091		
3.85	30	836.599992	-8	2091		
3.85	20	836.600003	3	2091		
3.85	10	836.600007	7	2091		
3.85	0	836.599991	-9	2091		
3.85	-10	836.599996	-4	2091		
3.85	-20	836.599995	-5	2091		
3.85	-30	836.59999	-10	2091		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279



	GPRS 1	900 Mid Channel	1880	MHz					
Limit: +/- 2.5 ppm									
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)					
FREQUENCY ERROR vs. VOLTAGE									
4.235	20	1879.999999	-1	4700					
3.85	20	1880.00001	10	4700					
3.465	20	1879.999995	-5	4700					
3.1 (End point)	20	1879.999993	-7	4700					
	FREQU	ENCY ERROR vs	. Temp.						
3.85	50	1879.999991	-9	4700					
3.85	40	1880.000007	7	4700					
3.85	30	1879.999999	-1	4700					
3.85	20	1879.999995	-5	4700					
3.85	10	1879.999996	-4	4700					
3.85	0	1880.000003	3	4700					
3.85	-10	1879.999993	-7	4700					
3.85	-20	1879.999992	-8	4700					
3.85	-30	1880.000001	1	4700					
	WCDI	MA II Mid Channel	1880	MHz					
		Limit: +/- 2.5 ppm							
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)					
	FREQUE	NCY ERROR vs. \	/OLTAGE						
4.235	20	1880.000008	8	4700					
3.85	20	1879.99999	-10	4700					
3.465	20	1879.999997	-3	4700					
3.1 (End point)	20	1880.000009	9	4700					
	FREQU	ENCY ERROR vs	. Temp.						
3.85	50	1879.999994	-6	4700					
	50	1077.77774	-0						
3.85	40	1880.000007	7	4700					
3.85	40	1880.000007	7 9 8	4700 4700 4700					
3.85 3.85	40 30	1880.000007 1880.000009	7 9	4700 4700					
3.85 3.85 3.85	40 30 20	1880.000007 1880.000009 1880.000008	7 9 8	4700 4700 4700					
3.85 3.85 3.85 3.85 3.85	40 30 20 10	1880.000007 1880.000009 1880.000008 1880.000005	7 9 8 5	4700 4700 4700 4700					
3.85 3.85 3.85 3.85 3.85 3.85	40 30 20 10 0	1880.000007 1880.000009 1880.000008 1880.000005 1879.999997	7 9 8 5 -3	4700 4700 4700 4700 4700 4700					

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



	WCDM	MA V Mid Chanr	nel 8	336.6	MHz	
		Limit: +/- 2.5 pp	om			
Vdc	Temp. (°C)	Freq. (MHz)	De	lta (Hz)	Limit (Hz)	
	FREQUE	NCY ERROR vs	s. VOLTA	GE	-	
4.235	20	836.599991		-9	2091	
3.85	20	836.600007		7	2091	
3.465	20	836.600002		2	2091	
3.1 (End point)	20	836.599997		-3	2091	
· · ·	FREQL	JENCY ERROR	vs. Temp).		
3.85	50	836.599992		-8	2091	
3.85	40	836.600002		2	2091	
3.85	30	836.599995		-5	2091	
3.85	20	836.599999		-1	2091	
3.85	10	836.59999		-10	2091	
3.85	0	836.600006		6	2091	
3.85	-10	836.600007		7	2091	
3.85	-20	836.600004		4	2091	
3.85	-30	836.600008		8	2091	
	IT	B2 Mid				
Reference Freq	•	Channel	1880	MHz 10	1 QPSK CH 18900	
Power Supply Vo	dc Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit =	+/- 2.5 ppm (Hz)	
	Fr€	eq. ERROR vs. VO	LTAGE	-		
4.235	25	1880.000007	7		4700	
3.85	25	1879.999997	-3		4700	
3.465	25	1880.000006	6		4700	
3.1 (End Daint)	25	1880.000009	9		4700	
(End Point)	I	reg. ERROR vs. T	omn			
3.85	-30	1879.999996	-4		4700	
3.85	-20	1880.000005	5	<u> </u>	4700	
3.85	-10	1880.000004	4		4700	
3.85	0	1880.000008	8		4700	
3.85	10	1880.000010	10	1	4700	
3.85	20	1880.000007	7	1	4700	
3.85	30	1879.999994	-6	1	4700	
3.85	40	1880.000001	1	1	4700	
3.85	50	1879.999999	-1		4700	

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. I td.

f (886-2) 2298-0488



Reference Freq.:		B5 Mid	836.5	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	nannel Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
		q. ERROR vs. VO		
4.235	25	836.499996	-4	2091
3.85	25	836.499995	-5	2091
3.465	25	836.500006	6	2091
3.1 (End Point)	25	836.499993	-7	2091
(2.02.1.0.1.19	Fr	req. ERROR vs. T	emp.	
3.85	-30	836.500002	2	2091
3.85	-20	836.499993	-7	2091
3.85	-10	836.499997	-3	2091
3.85	0	836.500009	9	2091
3.85	10	836.500005	5	2091
3.85	20	836.500004	4	2091
3.85	30	836.499992	-8	2091
3.85	40	836.499997	-3	2091
3.85	50	836.500003	3	2091
	Freq.: LTE B7 Mid			
Reference Freq .:			2535	MHz 10M QPSK CH 21100
	С	hannel		
Reference Freq.: Power Supply Vdc	C Temp.(℃)	hannel Freq. (MHz)	Delta (Hz)	MHz 10M QPSK CH 21100 Limit = +/- 2.5 ppm (Hz)
Power Supply Vdc	C Temp. (°C) Frec	hannel Freq. (MHz) a. ERROR vs. VO	Delta (Hz) LTAGE	Limit = +/- 2.5 ppm (Hz)
Power Supply Vdc 4.235	C Temp. (°C) Frec 25	hannel Freq. (MHz) q. ERROR vs. VO 2534.999999	Delta (Hz) LTAGE -1	Limit = +/- 2.5 ppm (Hz) 6338
Power Supply Vdc 4.235 3.85	C Temp. (℃) Frec 25 25	hannel Freq. (MHz) q. ERROR vs. VO 2534.999999 2534.999996	Delta (Hz) LTAGE -1 -4	Limit = +/- 2.5 ppm (Hz) 6338 6338
Power Supply Vdc 4.235 3.85 3.465 3.1	C Temp. (°C) Frec 25	hannel Freq. (MHz) q. ERROR vs. VO 2534.999999	Delta (Hz) LTAGE -1	Limit = +/- 2.5 ppm (Hz) 6338
Power Supply Vdc 4.235 3.85 3.465	Cl Temp. (°C) Fred 25 25 25 25 25	hannel Freq. (MHz) q. ERROR vs. VO 2534.999999 2534.999996 2534.999992 2535.000010	Delta (Hz) LTAGE -1 -4 -8 10	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338
Power Supply Vdc 4.235 3.85 3.465 3.1 (End Point)	C Temp. (°C) Fred 25 25 25 25 25 25 Fr	hannel Freq. (MHz) p. ERROR vs. VO 2534.999999 2534.999996 2534.999992 2535.000010 req. ERROR vs. T	Delta (Hz) LTAGE -1 -4 -8 10 emp.	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338
Power Supply Vdc 4.235 3.85 3.465 3.1 (End Point) 3.85	Cl Temp. (°C) Fred 25 25 25 25 25 25 Fr -30	hannel Freq. (MHz) q. ERROR vs. VO 2534.999999 2534.999996 2534.999992 2535.000010 req. ERROR vs. T 2535.000003	Delta (Hz) LTAGE -1 -4 -8 10 remp. 3	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338
Power Supply Vdc 4.235 3.85 3.465 3.1 (End Point) 3.85 3.85 3.85	Cl Temp. (°C) Fred 25 25 25 25 25 25 25 Fr -30 -20	hannel Freq. (MHz) q. ERROR vs. VO 2534.999999 2534.999996 2534.999992 2535.000010 eq. ERROR vs. T 2535.000003 2534.999991	Delta (Hz) LTAGE -1 -4 -8 10 remp. 3 -9	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338 6338 6338
Power Supply Vdc 4.235 3.85 3.465 3.1 (End Point) 3.85 3.85 3.85 3.85 3.85	Cl Temp. (°C) Free 25 25 25 25 25 25 Fr -30 -20 -10	hannel Freq. (MHz) c. ERROR vs. VO 2534.999999 2534.999996 2534.999992 2535.000010 eq. ERROR vs. T 2535.000003 2534.999991 2535.000002	Delta (Hz) LTAGE -1 -4 -8 10 cemp. 3 -9 2	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338 6338 6338 6338 6338
Power Supply Vdc 4.235 3.85 3.465 3.1 (End Point) 3.85 3.85 3.85 3.85 3.85 3.85 3.85	Cl Temp. (°C) Fred 25 25 25 25 25 25 75 75 70 -20 -10 0	hannel Freq. (MHz) J. ERROR vs. VO 2534.999999 2534.999996 2534.999992 2535.000010 req. ERROR vs. T 2535.000003 2534.999991 2535.000002 2534.999999	Delta (Hz) LTAGE -1 -4 -8 10 remp. 3 -9 2 -1	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338
Power Supply Vdc 4.235 3.85 3.465 3.1 (End Point) 3.85 3.8	Cl Temp. (°C) Free 25 25 25 25 25 25 75 70 -20 -10 0 10	hannel Freq. (MHz) c. ERROR vs. VO 2534.999999 2534.999996 2534.999992 2535.000010 eq. ERROR vs. T 2535.000003 2534.999991 2535.000002 2534.999999 2534.9999992	Delta (Hz) LTAGE -1 -4 -8 10 remp. 3 -9 2 -1 -8 -8 -9 -9 -1 -8 -8 -8 -9 -9 -1 -8 -8 -8 -8 -8 -8 -8 -9 -9 -1 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338
Power Supply Vdc 4.235 3.85 3.465 3.1 (End Point) 3.85 3.8	Cl Temp. (°C) Fred 25 25 25 25 25 725 Fr -30 -30 -20 -10 0 10 20	hannel Freq. (MHz) c. ERROR vs. VO 2534.999999 2534.999996 2534.999992 2535.000010 req. ERROR vs. T 2535.000003 2534.999991 2534.999999 2534.9999992 2534.999995	Delta (Hz) LTAGE -1 -4 -8 10 cemp. 3 -9 2 -1 -1 -8 -8 -5	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338
Power Supply Vdc 4.235 3.85 3.465 3.1 (End Point) 3.85 3.8	Cl Temp. (°C) Free 25 25 25 25 25 25 75 70 -20 -10 0 -10 0 10 20 30	hannel Freq. (MHz) J. ERROR vs. VO 2534.999999 2534.999996 2534.999992 2535.000010 eq. ERROR vs. T 2535.000003 2534.999991 2535.000002 2534.999999 2534.999995 2534.999995 2535.000007	Delta (Hz) LTAGE -1 -4 -8 10 cemp. 3 -9 2 -1 -8 -9 2 -1 -8 -5 7	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338
Power Supply Vdc 4.235 3.85 3.465 3.1 (End Point) 3.85 3.8	Cl Temp. (°C) Fred 25 25 25 25 25 725 Fr -30 -30 -20 -10 0 10 20	hannel Freq. (MHz) c. ERROR vs. VO 2534.999999 2534.999996 2534.999992 2535.000010 req. ERROR vs. T 2535.000003 2534.999991 2534.999999 2534.9999992 2534.999995	Delta (Hz) LTAGE -1 -4 -8 10 cemp. 3 -9 2 -1 -1 -8 -8 -5	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



	LTE	B38 Mid	2505		
Reference Freq .:	С	hannel	2595	MHz 10M QPSK CH 38000	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
	Free	q. ERROR vs. VO	LTAGE		
4.235	25	2595.000009	9	6488	
3.85	25	2594.999995	-5	6488	
3.465	25	2594.999992	-8	6488	
3.1 (End Point)	25	2594.999996	-4	6488	
	 Fr	req. ERROR vs. T	emn		
3.85	-30	2595.000002	2	6488	
3.85	-20	2595.000002	6	6488	
3.85	-10	2594.999993	-7	6488	
3.85	0	2594.999991	-9	6488	
3.85	10	2595.000003	3	6488	
3.85	20	2595.000008	8	6488	
3.85	30	2595.000004	4	6488	
3.85	40	2594.999990	-10	6488	
3.85	50	2595.000005	5	6488	
		LTE B41 Mid			
Reference Freq.:		nannel	2593	MHz 10M QPSK CH 40620	
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
	Free	q. ERROR vs. VO	LTAGE		
4.235	25	2592.999992	-8	6483	
3.85	25	2592.999994	-6	6483	
3.465	25	2592.999998	-2	6483	
3.1 (End Point)	25	2593.000007	7	6483	
	 Fi	req. ERROR vs. T	emp.		
3.85	-30	2592.999995	-5	6483	
3.85	-20	2592.999992	-8	6483	
3.85	-10	2592.999990	-10	6483	
3.85	0	2593.000003	3	6483	
3.85	10	2593.000009	9	6483	
3.85	20	2592.999993	-7	6483	
3.85	30	2592.999994	-6	6483	
	-				
3.85	40	2592.999998	-2	6483	

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

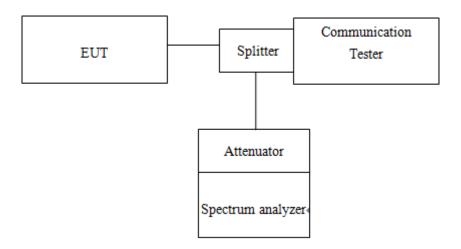


11 PEAK TO AVERAGE RATIO

11.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

11.2 Test SET-UP



11.3 **Measurement Procedure**

- 1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve.

11.4 **Measurement Equipment Used**

Conduc	Conducted Emission (measured at antenna port) Test Site										
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.						
PXA Spectrum Ana- lyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021						
DC Power Supply	Agilent	E3640A	KR93300208	08/19/2020	08/18/2021						
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021						
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021						
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021						
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021						
Splitter	RF-LAMBAD	RFLT2W1G1 8G	11-JSPF412- 018	01/02/2020	01/01/2021						
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021						

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488



11.5 **Measurement Result**

	F	req.			Peak	-to-Av	erage I	Ratio	
		eq. 1Hz)	(СН	GS	SM	GP	RS	
	(IV	11 12)			8	50	85	50	
	82	24.2	1	28	9.	69	10.	03	
	83	36.6	1	90	9.4	43	9.	4	
	84	18.8	2	51	9.1	34	9.4	48	
	г	ea			Peak	-to-Av	erage I	Ratio	
	Freq. (MHz)				GS	SM	GP	RS	
	(IV	INZ)		190		00	1900		
	18	50.2	5	12 9.2		26	9.72		
	1	880	6	61	9.87		10.15		
	19	09.8	8	10	9.62		9.58		
Гro	a			F	Peak-to	-Avera	age Ra	tio (dE	3)
Fre (M⊦	•	Cl	ł	WCE	DMA	HSDPA		HS	UPA
UVI	12)				II		II		II
1852	2.4	926	62	52 3.0		3.	94	3.	81
188	80	94()0 3.0		09	4.	29	4.	01
190	7.6	953	38	3.	07	4.	13	3.	77

Erog		Peak-to-Average Ratio (dB)					
Freq. (MHz)	СН	WCDMA	HSDPA	HSUPA			
		V	V	V			
826.4	4132	2.98	4.01	3.43			
836.6	4183	3.00	3.55	3.81			
846.6	4233	2.92	3.92	3.66			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

t (886-2) 2299-3279

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測试之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

I td.

www.sgs.com.tw



	LTE BAND 2								
Char	nnel band	width: 1.4N	1Hz	Channel bandwidth: 3MHz					
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)		
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit		
1850.7	18607	6.87	13	1851.5	18615	6.70	13		
1880.0	18900	6.97	13	1880.0	18900	6.75	13		
1909.3	19193	6.69	13	1908.5	19185	6.73	13		
			LTE B	and 2					
Cha	innel band	dwidth: 5MI	Hz	Cha	nnel band	width: 10M	Hz		
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)			
(MHz)	CIT	64QAM	Limit	(MHz)	GI	64QAM	Limit		
1852.5	18625	6.66	13	1855.0	18650	6.73	13		
1880.0	18900	6.77	13	1880.0	18900	6.88	13		
1907.5	19175	6.58	13	1905.0	19150	6.63	13		
			LTE B	AND 2					
Cha	nnel band	width: 15M	Hz	Cha	nnel band	width: 20M	Hz		
Freq.	СН	PAPR	· /	Freq.	СН	PAPR	(dB)		
(MHz)	CIT	64QAM	Limit	(MHz)		64QAM	Limit		
1857.5	18675	6.71	13	1860.0	18700	6.73	13		
1880.0	18900	6.65	13	1880.0	18900	6.88	13		
1902.5	19125	6.73	13	1900.0	19100	6.80	13		

	LTE BAND 5									
Char	nnel band	width: 1.4N	IHz	Cha	nnel band	dwidth: 3MI	Hz			
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)			
(MHz)	Сп	64QAM	Limit	(MHz)	СП	64QAM	Limit			
824.7	20407	6.82	13	825.5	20415	6.70	13			
836.5	20525	6.90	13	836.5	20525	6.72	13			
848.3	20643	6.76	13	847.5	20635	6.76	13			
			LTE B	AND 5						
Cha	nnel band	dwidth: 5MI	Ηz	Channel bandwidth: 10MHz						
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)			
(MHz)		64QAM	Limit	(MHz)		64QAM	Limit			
826.5	20425	6.73	13	829.0	20450	6.75	13			
836.5	20525	6.74	13	836.5	20525	6.68	13			
846.5	20625	6.63	13	844.0	20600	6.73	13			

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



	LTE BAND 7										
Cha	Channel bandwidth: 5MHz				nnel band	dwidth: 10N	1Hz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
2502.5	20775	6.33	13	2505.0	20800	6.38	13				
2535.0	21100	6.53	13	2535.0	21100	6.56	13				
2567.5	21375	6.63	13	2565.0	21350	6.53	13				
	•	•	LTE B	AND 7		•					
Char	nel banc	dwidth: 15N	1Hz	Channel bandwidth: 20MHz							
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
2507.5	20825	6.56	13	2510	20850	6.84	13				
2535.0	21100	6.69	13	2535	21100	6.83	13				
2562.5	21375	6.77	13	2560	21350	6.96	13				

	LTE BAND 38										
Cha	Channel bandwidth: 5MHz				nnel band	width: 10M	Hz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)		64QAM	Limit				
2572.5	37775	10.31	13	2575	37800	10.70	13				
2595.0	38000	9.12	13	2595	38000	10.13	13				
2617.5	38225	9.90	13	2615	38200	8.52	13				
			LTE B	and 38							
Cha	nnel band	width: 15M	Hz	Cha	nnel band	width: 20M	Hz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
2577.5	37825	8.54	13	2580.0	37850	11.21	13				
2595.0	38000	11.28	13	2595.0	38000	11.02	13				
2612.5	38175	8.86	13	2610.0	38150	10.56	13				

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

t (886-2) 2299-3279

除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號



	LTE BAND 41										
Cha	nnel ban	dwidth: 5M	Hz	Char	nnel band	lwidth: 10N	1Hz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	CIT	64QAM	Limit	(MHz)	CIT	64QAM	Limit				
2498.5	39675	9.00	13	2501.0	39700	12.35	13				
2593.0	40620	12.74	13	2593.0	40620	12.31	13				
2687.5	41565	11.48	13	2685.0	41540	12.07	13				
			LTE B	and 41							
Char	nel banc	lwidth: 15N	1Hz	Char	nnel band	lwidth: 20N	1Hz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit				
2503.5	39725	9.80	13	2506.0	39750	7.31	13				
2593.0	40620	9.61	13	2593.0	40620	10.16	13				
2682.5	41515	11.43	13	2680.0	41490	8.41	13				

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

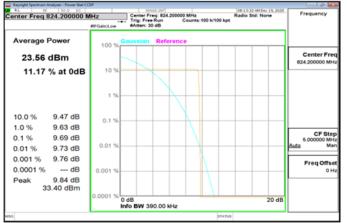
除非方方就明,此報告結果僅對測試之樣品負責,问時起樣品僅保留則天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

I td.

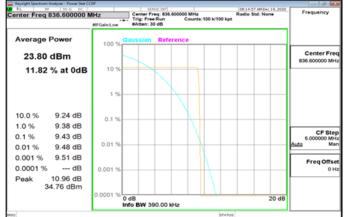


Report No.: ER/2020/C0010-01 Page: 191 of 207

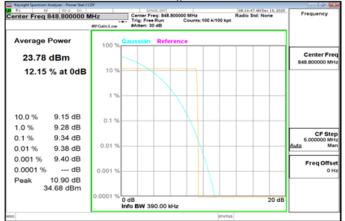
GSM_850MHz_LowCH128-824.2



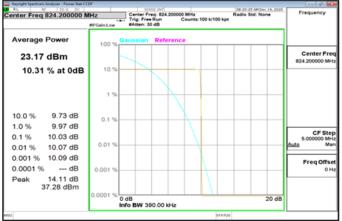
GSM_850MHz_MidCH190-836.6



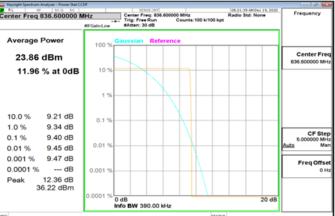
GSM 850MHz HighCH251-848.8



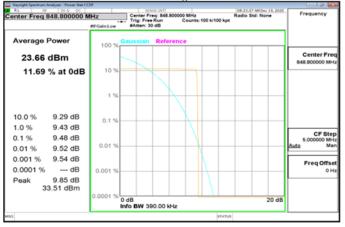
GPRS 850MHz LowCH128-824.2



GPRS_850MHz__MidCH190-836.6



GPRS 850MHz HighCH251-848.8



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

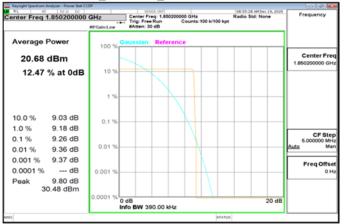
t (886-2) 2299-3279

f (886-2) 2298-0488

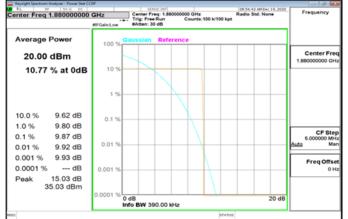


Report No.: ER/2020/C0010-01 Page: 192 of 207

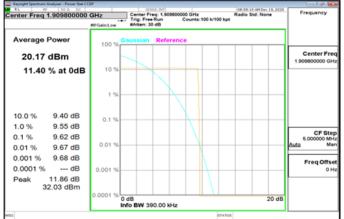
GSM 1900MHz LowCH512-1850.2



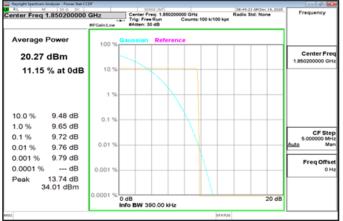
GSM_1900MHz_MidCH661-1880



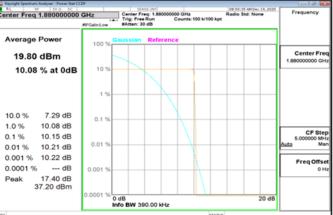
GSM 1900MHz HighCH810-1909.8



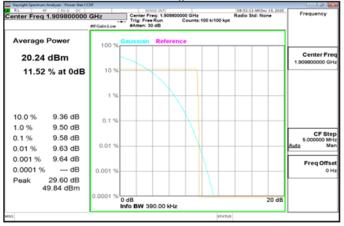
GPRS 1900MHz LowCH512-1850.2



GPRS_1900MHz_MidCH661-1880



GPRS_1900MHz_HighCH810-1909.8



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技股份有限公司

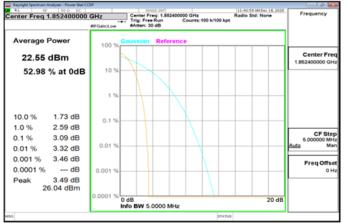
t (886-2) 2299-3279

f (886-2) 2298-0488

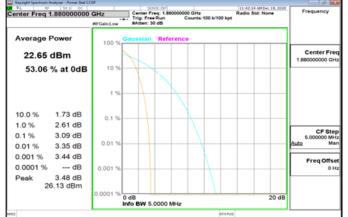


Report No.: ER/2020/C0010-01 Page: 193 of 207

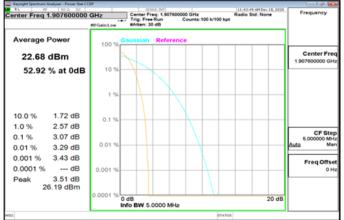
WCDMA_B2_LowCH9262-1852.4



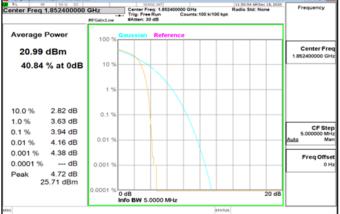
WCDMA_B2_MidCH9400-1880



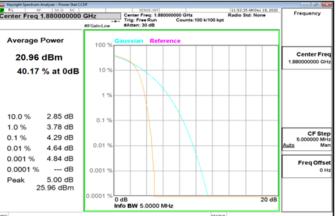
WCDMA B2 HighCH9538-1907.6



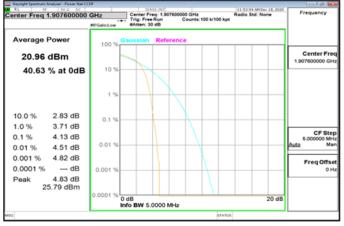
HSDPA B2 LowCH9262-1852.4



HSDPA_B2_MidCH9400-1880



HSDPA_B2_HighCH9538-1907.6



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技股份有限公司

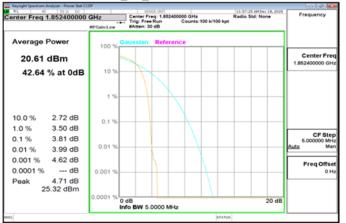
t (886-2) 2299-3279

f (886-2) 2298-0488

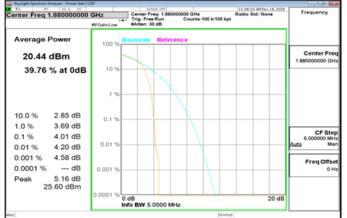


Report No.: ER/2020/C0010-01 Page: 194 of 207

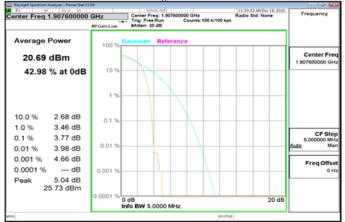
HSUPA B2 LowCH9262-1852.4



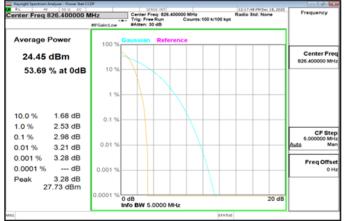
HSUPA_B2_MidCH9400-1880



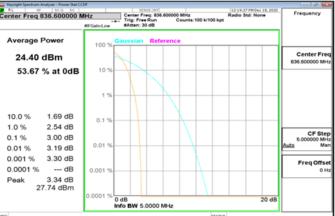
HSUPA B2 HighCH9538-1907.6



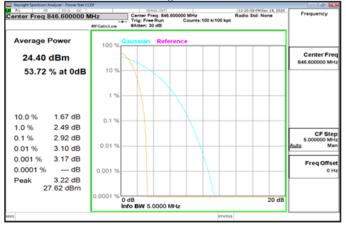
WCDMA B5 LowCH4132-826.4



WCDMA_B5_MidCH4183-836.6



WCDMA B5 HighCH4233-846.6



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488