

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

OF

FCC Applicant: Compal Electronics, Inc
No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei, (114)
Taiwan

Product Name: 5G M.2 Module

Brand Name: Compal

Model No.: RXM-G1

Model Difference: N/A

Report Number: E2/2019/A0029

FCC ID GKRRXMG1

FCC Rule Part: 2 , 22H & 24E & 27C & 90S

Issue Date: Jul. 03, 2020

Date of Test: Oct. 31, 2019 ~ Jun. 24, 2020

Date of EUT Received: Oct. 31, 2019

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Approved By: _____

**Jim Chang / Manager**

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Revision History

Report Number	Revision	Description	Issue Date	Remark
E2/2019/A0029	Rev.00	Original.	Jul. 03, 2020	Revised By: Karen Huang

Note:**1、Disclaimer**

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Contents

1	GENERAL PRODUCT INFORMATION.....	4
2	SYSTEM TEST CONFIGURATION	12
3	SUMMARY OF TEST RESULTS.....	15
4	DESCRIPTION OF TEST MODES	16
5	MEASUREMENT UNCERTAINTY	31
6	MAXMUM OUTPUT POWER.....	32
7	OCCUPIED BANDWIDTH MEASUREMENT.....	99
8	OUT OF BAND EMISSION AT ANTENNA TERMINALS.....	223
9	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	418
10	FREQUENCY STABILITY MEASUREMENT	540
11	PEAK TO AVERAGE RATIO.....	551

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

1 GENERAL PRODUCT INFORMATION

1.1 Product Description

General:

Product Name:	5G M.2 Module
Brand Name:	Compal
Model No.:	RXM-G1
Model Difference:	N/A
Hardware Version:	DVT-1
Software Version:	RXMG1.00.00.036
Power Supply:	DC 3.3V
IMEI:	359047100009060

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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

1.2 Operation Frequency Range

Operating Frequency (MHz)			
WCDMA / HSPA+ Band II	1852.4	-	1907.6
WCDMA / HSPA+ Band IV	1712.4	-	1752.6
WCDMA / HSPA+ Band V	826.4	-	846.6

LTE Band	BW (MHz)	Operation Frequency (MHz)		LTE Band	BW (MHz)	Operation Frequency (MHz)	
2	1.4	1850.7	- 1909.3	25	1.4	1850.7	- 1914.3
	3	1851.5	- 1908.5		3	1851.5	- 1913.5
	5	1852.5	- 1907.5		5	1852.5	- 1912.5
	10	1855.0	- 1905.0		10	1855.0	- 1910.0
	15	1857.5	- 1902.5		15	1857.5	- 1907.5
	20	1860.0	- 1900.0		20	1860.0	- 1905.0
4	1.4	1710.7	- 1754.3	26	1.4	824.7	- 848.3
	3	1711.5	- 1753.5		3	825.5	- 847.5
	5	1712.5	- 1752.5		5	826.5	- 846.5
	10	1715.0	- 1750.0		10	829.0	- 844.0
	15	1717.5	- 1747.5		15	831.5	- 841.5
	20	1720.0	- 1745.0	26 Part90	1.4	814.7	- 823.3
5	1.4	824.7	- 848.3		3	815.5	- 822.5
	3	825.5	- 847.5		5	816.5	- 821.5
	5	826.5	- 846.5		10	819.0	
	10	829.0	- 844.0	30	5	2307.5	- 2312.5
7	5	2502.5	- 2567.5		10	2310.0	
	10	2505.0	- 2565.0	41	5	2498.5	- 2687.5
	15	2507.5	- 2562.5		10	2501.0	- 2685.0
	20	2510.0	- 2560.0		15	2503.5	- 2682.5
12	1.4	699.7	- 715.3		20	2506.0	- 2680.0
	3	700.5	- 714.5				
	5	701.5	- 713.5				
	10	704.0	- 711.0				
13	5	779.5	- 784.5				
	10	782					
14	5	790.5	- 795.5				
	10	793					

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

LTE Band	BW (MHz)	Operation Frequency (MHz)		LTE Band	BW (MHz)	Operation Frequency (MHz)	
66	1.4	1710.7	- 1779.3	71	5	665.5	- 695.5
	3	1711.5	- 1778.5		10	688.0	- 693.0
	5	1712.5	- 1777.5		15	670.5	- 690.5
	10	1715.0	- 1775.0		20	673.0	- 688.0
	15	1717.5	- 1772.5				
	20	1720.0	- 1770.0				

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

1.3 Antenna Designation

Vendor	Type	Model Name	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
Pulse	PIFA	ANT0	WCDMA / HSPA Band II	1852.4 ~ 1907.6	4
			WCDMA / HSPA Band IV	1712.4 ~ 1752.6	4.5
			WCDMA / HSPA Band V	826.4 ~ 846.6	2.9
			LTE Band 2	1850 ~ 1910	4
			LTE Band 4	1710 ~ 1755	4.5
			LTE Band 5	824 ~ 849	2.9
			LTE Band 7	2500 ~ 2570	3.4
			LTE Band 12	699 ~ 716	2.4
			LTE Band 13	777 ~ 787	3
			LTE Band 14	788 ~ 798	3
			LTE Band 25	1850 ~ 1915	4
			LTE Band 26	824 ~ 849	2.9
			LTE Band 26 (Part 90S)	814 ~ 824	2.9
			LTE Band 30	2305 ~ 2315	-0.9
			LTE Band 41	2496 ~ 2690	3.4
			LTE Band 66	1710 ~ 1780	4.5
			LTE Band 71	663 ~ 698	2.6

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

	ERP / EIRP (dBm)		W	Type of Emission
WCDMA Band II	26.93	EIRP	0.493	4M15F9W
HSDPA Band II	25.80	EIRP	0.380	4M14F9W
HSUPA Band II	25.95	EIRP	0.394	4M15F9W
WCDMA Band IV	28.30	EIRP	0.676	4M14F9W
HSDPA Band IV	27.15	EIRP	0.519	4M14F9W
HSUPA Band IV	27.30	EIRP	0.537	4M15F9W
WCDMA Band V	26.29	ERP	0.426	4M16F9W
HSDPA Band V	25.31	ERP	0.340	4M16F9W
HSUPA Band V	25.44	ERP	0.350	4M16F9W

LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
2	1.4	1850.7	1909.3	QPSK	27.09	EIRP	0.512	1.0965	1M10G7D
				16QAM	26.85	EIRP	0.484	1.0993	1M10D7W
				64QAM	24.94	EIRP	0.312	1.0970	1M10D7W
				256QAM	23.47	EIRP	0.222	1.0905	1M09D7W
2	3	1851.5	1908.5	QPSK	26.99	EIRP	0.500	2.7062	2M71G7D
				16QAM	26.85	EIRP	0.484	2.7068	2M71D7W
				64QAM	26.66	EIRP	0.463	2.7071	2M71D7W
				256QAM	23.61	EIRP	0.230	2.7111	2M71D7W
2	5	1852.5	1907.5	QPSK	26.70	EIRP	0.468	4.5194	4M52G7D
				16QAM	26.66	EIRP	0.463	4.5082	4M51D7W
				64QAM	26.95	EIRP	0.495	4.4996	4M50D7W
				256QAM	23.59	EIRP	0.229	4.5004	4M50D7W
2	10	1855.0	1905.0	QPSK	27.08	EIRP	0.511	9.0102	9M01G7D
				16QAM	27.05	EIRP	0.507	8.9808	8M98D7W
				64QAM	27.04	EIRP	0.506	8.9802	8M98D7W
				256QAM	23.59	EIRP	0.229	8.9870	8M99D7W
2	15	1857.5	1902.5	QPSK	27.16	EIRP	0.520	13.482	13M5G7D
				16QAM	26.93	EIRP	0.493	13.471	13M5D7W
				64QAM	26.86	EIRP	0.485	13.492	13M5D7W
				256QAM	23.73	EIRP	0.236	13.488	13M5D7W
2	20	1860.0	1900.0	QPSK	27.34	EIRP	0.542	17.977	18M0G7D
				16QAM	26.68	EIRP	0.466	17.966	18M0D7W
				64QAM	26.64	EIRP	0.461	17.959	18M0D7W
				256QAM	23.73	EIRP	0.236	17.946	17M9D7W

LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
4	1.4	1710.7	1754.3	QPSK	28.12	EIRP	0.649	1.0976	1M10G7D
				16QAM	27.82	EIRP	0.605	1.1003	1M10D7W
				64QAM	26.21	EIRP	0.418	4.5142	4M51D7W
				256QAM	20.51	EIRP	0.112	1.0984	1M10D7W
4	3	1711.5	1753.5	QPSK	28.29	EIRP	0.675	2.7038	2M70G7D
				16QAM	28.01	EIRP	0.632	2.7053	2M71D7W
				64QAM	26.43	EIRP	0.440	2.7033	2M70D7W
				256QAM	25.06	EIRP	0.321	2.7108	2M71D7W
4	5	1712.5	1752.5	QPSK	28.36	EIRP	0.685	4.5141	4M51G7D
				16QAM	27.83	EIRP	0.607	4.5084	4M51D7W
				64QAM	26.31	EIRP	0.428	4.5142	4M51D7W
				256QAM	25.02	EIRP	0.318	4.5040	4M50D7W
4	10	1715.0	1750.0	QPSK	28.09	EIRP	0.644	9.0124	9M01G7D
				16QAM	28.02	EIRP	0.634	8.9836	8M98D7W
				64QAM	26.21	EIRP	0.418	8.9789	8M98D7W
				256QAM	24.81	EIRP	0.303	8.9765	8M98D7W
4	15	1717.5	1747.5	QPSK	28.25	EIRP	0.668	13.490	13M5G7D
				16QAM	27.83	EIRP	0.607	13.463	13M5D7W
				64QAM	26.19	EIRP	0.305	13.467	13M5D7W
				256QAM	24.85	EIRP	0.305	13.486	13M5D7W
4	20	1720.0	1745.0	QPSK	28.17	EIRP	0.656	17.962	18M0G7D
				16QAM	28.05	EIRP	0.638	17.979	18M0D7W
				64QAM	26.29	EIRP	0.426	17.979	18M0D7W
				256QAM	24.87	EIRP	0.307	17.985	18M0D7W

LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
5	1.4	824.7	848.3	QPSK	24.17	ERP	0.261	1.0976	1M10G7D
				16QAM	24.15	ERP	0.260	1.0992	1M10D7W
				64QAM	22.42	ERP	0.175	1.0962	1M10D7W
				256QAM	19.85	ERP	0.097	1.0898	1M09D7W
5	3	825.5	847.5	QPSK	24.18	ERP	0.262	2.7048	2M70G7D
				16QAM	24.07	ERP	0.255	2.7072	2M71D7W
				64QAM	22.14	ERP	0.164	2.7045	2M70D7W
				256QAM	19.82	ERP	0.096	2.7090	2M71D7W
5	5	826.5	846.5	QPSK	24.30	ERP	0.269	4.5257	4M53G7D
				16QAM	23.98	ERP	0.250	4.5103	4M51D7W
				64QAM	22.11	ERP	0.163	4.5185	4M52D7W
				256QAM	19.81	ERP	0.096	4.4990	4M50D7W
5	10	829.0	844.0	QPSK	24.26	ERP	0.267	9.0315	9M03G7D
				16QAM	23.95	ERP	0.248	8.9862	8M99D7W
				64QAM	22.32	ERP	0.171	9.0051	9M01D7W
				256QAM	20.03	ERP	0.101	8.9686	8M97D7W

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>. 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 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 Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
7	5	2502.5	2567.5	QPSK	26.12	EIRP	0.409	4.5149	4M51G7D
				16QAM	25.31	EIRP	0.340	4.5107	4M51D7W
				64QAM	23.52	EIRP	0.225	4.5112	4M51D7W
				256QAM	24.74	EIRP	0.298	4.4946	4M49D7W
7	10	2505.0	2565.0	QPSK	26.35	EIRP	0.432	9.0096	9M01G7D
				16QAM	25.66	EIRP	0.368	8.9865	8M99D7W
				64QAM	23.72	EIRP	0.236	8.9761	8M98D7W
				256QAM	24.30	EIRP	0.269	8.9548	8M95D7W
7	15	2507.5	2562.5	QPSK	26.28	EIRP	0.425	13.498	13M5G7D
				16QAM	25.43	EIRP	0.349	13.467	13M5D7W
				64QAM	23.64	EIRP	0.231	13.456	13M5D7W
				256QAM	23.99	EIRP	0.251	13.469	13M5D7W
7	20	2510.0	2560.0	QPSK	26.42	EIRP	0.439	17.966	18M0G7D
				16QAM	25.92	EIRP	0.391	17.988	18M0D7W
				64QAM	23.60	EIRP	0.229	17.967	18M0D7W
				256QAM	24.01	EIRP	0.252	17.926	17M9D7W
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
12	1.4	699.7	715.3	QPSK	24.58	ERP	0.287	1.0978	1M10G7D
				16QAM	24.56	ERP	0.286	1.0992	1M10D7W
				64QAM	22.58	ERP	0.181	1.0974	1M10D7W
				256QAM	22.19	ERP	0.166	1.0909	1M09D7W
12	3	700.5	714.5	QPSK	24.88	ERP	0.308	2.7031	2M70G7D
				16QAM	24.02	ERP	0.252	2.7039	2M70D7W
				64QAM	22.88	ERP	0.194	2.7057	2M71D7W
				256QAM	20.17	ERP	0.104	2.7083	2M71D7W
12	5	701.5	713.5	QPSK	24.84	ERP	0.305	4.5180	4M52G7D
				16QAM	24.74	ERP	0.298	4.5062	4M51D7W
				64QAM	22.84	ERP	0.192	4.5136	4M51D7W
				256QAM	19.65	ERP	0.092	4.4982	4M50D7W
12	10	704.0	711.0	QPSK	24.80	ERP	0.302	9.0090	9M01G7D
				16QAM	25.27	ERP	0.337	8.9833	8M98D7W
				64QAM	22.74	ERP	0.188	8.9864	8M99D7W
				256QAM	19.86	ERP	0.097	8.9859	8M99D7W
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
13	5	779.5	784.5	QPSK	24.02	ERP	0.252	4.5036	4M50G7D
				16QAM	23.74	ERP	0.237	4.5081	4M51D7W
				64QAM	22.50	ERP	0.178	4.5157	4M52D7W
				256QAM	20.66	ERP	0.116	4.5010	4M50D7W
13	10	782.0	782.0	QPSK	23.68	ERP	0.233	8.9998	9M00G7D
				16QAM	23.88	ERP	0.244	8.9475	8M95D7W
				64QAM	21.61	ERP	0.145	8.9638	8M96D7W
				256QAM	20.46	ERP	0.111	8.9472	8M95D7W
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
14	5	709.5	795.5	QPSK	23.53	ERP	0.225	4.5105	4M51G7D
				16QAM	22.79	ERP	0.190	4.5040	4M50D7W
				64QAM	20.91	ERP	0.123	4.5140	4M51D7W
				256QAM	19.95	ERP	0.099	4.4986	4M50D7W
14	10	793.0	793.0	QPSK	23.49	ERP	0.223	9.0184	9M02G7D
				16QAM	22.91	ERP	0.195	8.9573	8M96D7W
				64QAM	21.17	ERP	0.131	8.9845	8M98D7W
				256QAM	20.78	ERP	0.120	8.9575	8M96D7W

LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
25	1.4	1850.7	1909.3	QPSK	28.61	EIRP	0.726	1.0978	1M10G7D
				16QAM	28.15	EIRP	0.653	1.0931	1M09D7W
				64QAM	28.32	EIRP	0.679	1.0930	1M09D7W
				256QAM	23.25	EIRP	0.211	1.0913	1M09D7W
25	3	1851.5	1908.5	QPSK	27.46	EIRP	0.557	2.7038	2M70G7D
				16QAM	26.77	EIRP	0.475	2.6961	2M70D7W
				64QAM	26.85	EIRP	0.484	2.6997	2M70D7W
				256QAM	23.34	EIRP	0.216	2.7096	2M71D7W
25	5	1852.5	1907.5	QPSK	27.52	EIRP	0.565	4.5032	4M50G7D
				16QAM	27.05	EIRP	0.507	4.4949	4M49D7W
				64QAM	27.02	EIRP	0.504	4.5093	4M51D7W
				256QAM	23.22	EIRP	0.210	4.5074	4M51D7W
25	10	1855.0	1905.0	QPSK	27.51	EIRP	0.564	9.0061	9M01G7D
				16QAM	27.18	EIRP	0.522	8.9509	8M95D7W
				64QAM	27.07	EIRP	0.509	8.9779	8M98D7W
				256QAM	22.97	EIRP	0.198	8.9633	8M96D7W
25	15	1857.5	1902.5	QPSK	27.62	EIRP	0.578	13.473	13M5G7D
				16QAM	26.97	EIRP	0.498	13.474	13M5D7W
				64QAM	26.85	EIRP	0.484	13.451	13M5D7W
				256QAM	23.40	EIRP	0.219	13.479	13M5D7W
25	20	1860.0	1900.0	QPSK	27.62	EIRP	0.578	17.981	18M0G7D
				16QAM	26.88	EIRP	0.488	17.960	18M0D7W
				64QAM	26.74	EIRP	0.472	17.968	18M0D7W
				256QAM	23.51	EIRP	0.224	17.959	18M0D7W
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
26	1.4	824.7	848.3	QPSK	23.97	ERP	0.249	1.0943	1M09G7D
				16QAM	24.16	ERP	0.261	1.0984	1M10D7W
				64QAM	22.62	ERP	0.183	1.0976	1M10D7W
				256QAM	19.96	ERP	0.099	1.0905	1M09D7W
26	3	825.5	847.5	QPSK	24.24	ERP	0.265	2.7027	2M70G7D
				16QAM	24.33	ERP	0.271	2.7027	2M70D7W
				64QAM	22.70	ERP	0.186	2.7036	2M70D7W
				256QAM	20.14	ERP	0.103	2.7115	2M71D7W
26	5	826.5	846.5	QPSK	24.26	ERP	0.267	4.5092	4M51G7D
				16QAM	23.94	ERP	0.248	4.5125	4M51D7W
				64QAM	22.64	ERP	0.184	4.5150	4M52D7W
				256QAM	20.00	ERP	0.100	4.4998	4M50D7W
26	10	829.0	844.0	QPSK	24.27	ERP	0.267	9.0243	9M02G7D
				16QAM	24.01	ERP	0.252	8.9786	8M98D7W
				64QAM	22.43	ERP	0.175	8.9914	8M99D7W
				256QAM	19.99	ERP	0.100	8.9628	8M96D7W
26	15	831.0	841.5	QPSK	24.55	ERP	0.285	13.520	13M5G7D
				16QAM	23.77	ERP	0.238	13.490	13M5D7W
				64QAM	22.44	ERP	0.175	13.467	13M5D7W
				256QAM	20.31	ERP	0.107	13.451	13M5D7W
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
26 Part 90	1.4	814.7	823.3	QPSK	23.78	ERP	0.239	1.0948	1M09G7D
				16QAM	23.92	ERP	0.247	1.0985	1M10D7W
				64QAM	22.41	ERP	0.174	1.0956	1M10D7W
				256QAM	20.58	ERP	0.114	1.0906	1M09D7W
26 Part 90	3	815.5	822.5	QPSK	23.93	ERP	0.247	2.7023	2M70G7D
				16QAM	23.86	ERP	0.243	2.7035	2M70D7W
				64QAM	22.39	ERP	0.173	2.7053	2M71D7W
				256QAM	20.69	ERP	0.117	2.7070	2M71D7W
26 Part 90	5	816.5	822.5	QPSK	23.93	ERP	0.247	4.5018	4M50G7D
				16QAM	23.42	ERP	0.220	4.5072	4M51D7W
				64QAM	22.12	ERP	0.163	4.5166	4M52D7W
				256QAM	20.62	ERP	0.115	4.4928	4M49D7W
26 Part 90	10	819.0	819.0	QPSK	23.58	ERP	0.228	9.0126	9M01G7D
				16QAM	24.40	ERP	0.275	8.9766	8M98D7W
				64QAM	22.01	ERP	0.159	9.0067	9M01D7W
				256QAM	20.71	ERP	0.118	8.9674	8M97D7W

LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm/MHz)		(W)	99%	Type of Emission
30	5	2307.5	2312.5	QPSK	21.88	EIRP	0.154	4.5087	4M51G7D
				16QAM	21.56	EIRP	0.143	4.5102	4M51D7W
				64QAM	19.97	EIRP	0.099	4.5174	4M52D7W
				256QAM	18.53	EIRP	0.071	4.5044	4M50D7W
30	10	2310.0	2310.0	QPSK	21.77	EIRP	0.150	8.9717	8M97G7D
				16QAM	21.29	EIRP	0.135	8.9762	8M98D7W
				64QAM	20.03	EIRP	0.101	8.9856	8M99D7W
				256QAM	18.35	EIRP	0.068	8.9843	8M98D7W
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
41	5	2498.5	2687.5	QPSK	28.72	EIRP	0.745	4.5137	4M51G7D
				16QAM	27.96	EIRP	0.625	4.5075	4M51D7W
				64QAM	26.25	EIRP	0.422	4.4999	4M50D7W
				256QAM	25.97	EIRP	0.395	4.9650	4M97D7W
41	10	2501.0	2685.0	QPSK	28.36	EIRP	0.685	8.9890	8M99G7D
				16QAM	28.00	EIRP	0.631	8.9664	8M97D7W
				64QAM	26.35	EIRP	0.432	8.9734	8M97D7W
				256QAM	25.88	EIRP	0.387	8.9750	8M98D7W
41	15	2503.5	2682.0	QPSK	28.60	EIRP	0.724	13.507	13M5G7D
				16QAM	28.11	EIRP	0.647	13.511	13M5D7W
				64QAM	26.41	EIRP	0.438	13.485	13M5D7W
				256QAM	26.20	EIRP	0.417	13.491	13M5D7W
41	20	2506.0	2680.0	QPSK	28.56	EIRP	0.718	17.950	18M0G7D
				16QAM	28.37	EIRP	0.687	17.946	17M9D7W
				64QAM	26.58	EIRP	0.455	17.944	17M9D7W
				256QAM	26.19	EIRP	0.416	17.913	17M9D7W
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
66	1.4	1710.7	1779.3	QPSK	27.85	EIRP	0.610	1.0938	1M09G7D
				16QAM	27.67	EIRP	0.585	1.0993	1M10D7W
				64QAM	26.12	EIRP	0.409	1.0983	1M10D7W
				256QAM	24.03	EIRP	0.253	1.0897	1M09D7W
66	3	1711.5	1778.5	QPSK	28.14	EIRP	0.652	2.7012	2M70G7D
				16QAM	27.74	EIRP	0.594	2.6995	2M70D7W
				64QAM	26.31	EIRP	0.428	2.7061	2M71D7W
				256QAM	23.95	EIRP	0.248	2.7104	2M71D7W
66	5	1712.5	1777.5	QPSK	28.08	EIRP	0.643	4.5026	4M50G7D
				16QAM	27.94	EIRP	0.622	4.5037	4M50D7W
				64QAM	26.32	EIRP	0.429	4.5126	4M51D7W
				256QAM	23.94	EIRP	0.248	4.4983	4M50D7W
66	10	1715.0	1775.0	QPSK	28.02	EIRP	0.634	9.0136	9M01G7D
				16QAM	28.13	EIRP	0.650	8.9643	8M96D7W
				64QAM	26.35	EIRP	0.432	8.9876	8M99D7W
				256QAM	23.86	EIRP	0.243	8.9801	8M98D7W
66	15	1717.5	1772.5	QPSK	28.10	EIRP	0.646	13.500	13M5G7D
				16QAM	27.72	EIRP	0.592	13.479	13M5D7W
				64QAM	26.29	EIRP	0.426	13.462	13M5D7W
				256QAM	24.02	EIRP	0.252	13.488	13M5D7W
66	20	1720.0	1770.0	QPSK	28.20	EIRP	0.661	17.950	18M0G7D
				16QAM	28.20	EIRP	0.661	17.984	18M0D7W
				64QAM	26.54	EIRP	0.451	17.967	18M0D7W
				256QAM	24.11	EIRP	0.258	17.989	18M0D7W

LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
71	5	665.5	695.5	QPSK	26.30	EIRP	0.427	4.5309	4M53G7D
				16QAM	25.83	EIRP	0.383	4.4985	4M50D7W
				64QAM	24.59	EIRP	0.288	4.5140	4M51D7W
				256QAM	22.69	EIRP	0.186	4.4898	4M49D7W
71	10	688.0	693.0	QPSK	26.34	EIRP	0.431	8.9663	8M97G7D
				16QAM	25.94	EIRP	0.393	8.9679	8M97D7W
				64QAM	24.89	EIRP	0.308	8.9909	8M99D7W
				256QAM	22.61	EIRP	0.182	8.9826	8M98D7W
71	15	670.5	690.5	QPSK	26.77	EIRP	0.475	13.465	13M5G7D
				16QAM	26.18	EIRP	0.415	13.508	13M5D7W
				64QAM	24.86	EIRP	0.306	13.467	13M5D7W
				256QAM	22.56	EIRP	0.180	13.459	13M5D7W
71	20	673.0	688.0	QPSK	26.68	EIRP	0.466	17.966	18M0G7D
				16QAM	25.95	EIRP	0.394	17.998	18M0D7W
				64QAM	24.57	EIRP	0.286	17.912	17M9D7W
				256QAM	22.22	EIRP	0.167	17.933	17M9D7W

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

TS 151 010-1 is used to set, and measure the output power.

1.6 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0027

1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.6	10	13.6
High Band (Above 1 GHz)	3.8	10	13.8

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>. 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 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.

2.5 Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	3.3	299
WCDMA B4		293
WCDMA B5		288
LTE Band 2		490
LTE Band 4		490
LTE Band 5		490
LTE Band 7		490
LTE Band 12		490
LTE Band 13		490
LTE Band 14		490
LTE Band 25		490
LTE Band 26		490
LTE Band 26 (Part 90S)		490
LTE Band 30		480
LTE Band 41		480
LTE Band 66		490
LTE Band 71		490

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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

2.6 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

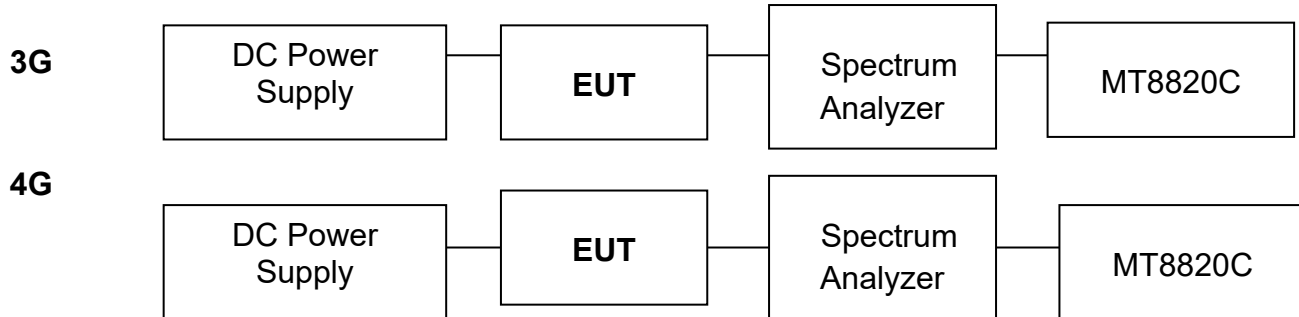


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

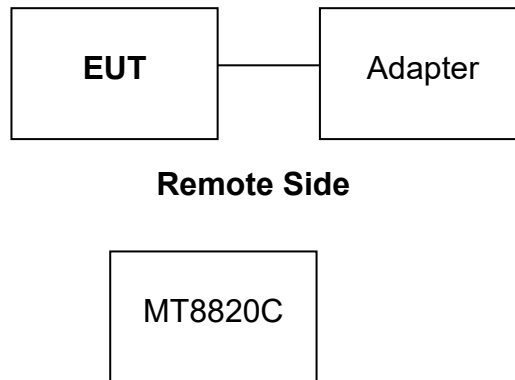


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyer	Anritsu	MT8820C	6201107337	shielded	Un-shielded

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>. 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 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.

3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(a)(3) §27.50(b)(10) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.542(a)(7) §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(a)(4) §27.53(g) §27.53(c)(2)(4) §27.53(h) §27.53(m)(4)(6) §90.543 (e) (2) §90.691	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(a)(4) §27.53(g) 27.53(c)(2), (4) §27.53(h) §27.53(m)(4) §90.543 (e) (2) §90.691(a)(1)(2)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50((B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213	Frequency Stability	Compliant

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>. 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 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.

4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	RADIATED EMISSION
WCDMA/HSPA Band II	E2-plane
WCDMA/HSPA Band IV	E2-plane
WCDMA/HSPA Band V	E2-plane
LTE Band 2	E2-plane
LTE Band 4	E2-plane
LTE Band 5	E2-plane
LTE Band 7	E2-plane
LTE Band 12	E2-plane
LTE Band 13	E2-plane
LTE Band 14	E2-plane
LTE Band 25	E2-plane
LTE Band 26	E2-plane
LTE Band 26 (Part 90S)	E2-plane
LTE Band 30	E2-plane
LTE Band 41	E2-plane
LTE Band 66	E2-plane
LTE Band 71	E2-plane

Note: The device does not support MIMO transmitting mode.

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>. 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 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.

4.2 Measurement Configuration

WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538 1312 to 1513	9262, 9400, 9583 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
FREQUENCY STABILITY	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA Band II WCDMA Band IV WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4233 1312, 1513 9262, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
CONDUCTED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	HSDPA Band II HSUPA Band IV WCDMA Band V

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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

LTE Band 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABIL- ITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BAND- WIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	256QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	256QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	256QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	256QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	256QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	256QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUETED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18625 to 19175	18625, 18900, 19175	20MHz	QPSK	1 RB, 0 RB Offest

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABIL- ITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BAND- WIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	256QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	256QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	256QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	256QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	256QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	256QAM	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMIS- SION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK,	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK,	1 RB, 0 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK,	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20000 to 20350	20000, 20175, 20350	5MHz	QPSK,	1 RB, 24 RB Offest

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>. 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 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 Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,5 RB Offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,14 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	256QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	256QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	256QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	256QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDUCTED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	20450 to 20600	20450, 20525, 20600	5MHz	QPSK	1 RB, 24 RB Offset

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,74 RB Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	256QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	256QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	256QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	256QAM	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offset Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offset Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offset Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offset Full RB
CONDUCTED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB, 0 RB Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB, 0 RB Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offset
RADIATED EMISSION	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 99 RB Offset
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offset 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offset 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offset 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offset 100 RB/ 0 Offset

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>. 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 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 Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	256QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	256QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	256QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	256QAM	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23035 to 23155	23035, 23095, 23155	10MHz	QPSK	1 RB, 49 RB Offest

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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offest
	23230	23230	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offest
FREQUENCY STA-BILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	256QAM	Full RB
	23230	23230	10MHz	256QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUETED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB/ 0 RB Offest

LTE Band 14 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23305 to 23355	23305,23330,23355	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offest
	23330	23330	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offest
FREQUENCY STA-BILITY	23330	23330	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23305 to 23355	23305,23330,23355	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	23330	23330	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	23305 to 23355	23305,23330,23355	5MHz	256QAM	Full RB
	23330	23330	10MHz	256QAM	Full RB
BAND EDGE	23305 to 23355	23305, 23355	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23330	23330	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUETED EMISSION	23305 to 23355	23305,23330,23355	5MHz	QPSK	1 RB, 0 RB Offest
	23330	23330	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMIS-SION	23330	23330	5MHz	QPSK	1 RB/ 0 RB Offest

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

LTE Band 25 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,5 RB Offest
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,14 RB Offest
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offest
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offest
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,74 RB Offest
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABIL- ITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BAND- WIDTH	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	26047 to 26683	26047, 26365, 26683	1.4MHz	256QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	256QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	256QAM	Full RB
	26090 to 26640	26090, 26365, 26640	10MHz	256QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	256QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	256QAM	Full RB
BAND EDGE	26047 to 26683	26047, 26683	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26055 to 26675	26055, 26675	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26065 to 26665	26065, 26665	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26090 to 26640	26090, 26640	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26115 to 26615	26115, 26615	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	26140 to 26590	26140, 26590	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMIS- SION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK,	1 RB, 0 RB Offest
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK,	1 RB, 0 RB Offest
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK,	1 RB, 0 RB Offest
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK,	1 RB, 0 RB Offest
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	26090 to 26640	26090, 26365, 26640	20MHz	QPSK,	1 RB, 0 RB Offest

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,14 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,74 RB Offest
FREQUENCY STABIL- ITY	26865 to 26965	26915	15MHz	QPSK,	Full RB
OCCUPIED BAND- WIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	26797 to 27033	26797, 26915, 27033	1.4MHz	256QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	256QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	256QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	256QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	256QAM	Full RB
BAND EDGE	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offest
CONDCUETED EMIS- SION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB, 0 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB, 0 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB, 0 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26805 to 27025	26805, 26915, 27025	15MHz	QPSK,	1 RB, 74 RB Offest

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>. 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 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 Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,5 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,14 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABIL- ITY	26697 to 26783	26740	1.4MHz	QPSK,	Full RB
OCCUPIED BAND- WIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	26697 to 26783	26697, 26740, 26783	1.4MHz	256QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	256QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	256QAM	Full RB
	26740	26740	10MHz	256QAM	Full RB
EMISSION MASK	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMIS- SION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	26740	26740	10MHz	16QAM	1 RB, 49 RB Offest

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>. 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 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 Band 30 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offest
	27710	27710	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	27710	27710	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	27710	27710	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	27685 to 27735	27685, 27710, 27735	5MHz	256QAM	Full RB
	27710	27710	10MHz	256QAM	Full RB
EMISSION MASK	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	27710	27710	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB/ 0 RB Offest

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,74 RB Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	256QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	256QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	256QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	256QAM	Full RB
CONDCUDED EMIS-SION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB, 0 RB Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB, 0 RB Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB, 0 RB Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB, 0 RB Offset
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offset 25 RB/ 0 Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offset 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offset 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offset 100 RB/ 0 Offset
RADIATED EMISSION	39750 to 41490	39750, 40620, 41490	15MHz	16QAM	1 RB, 74 RB Offset

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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

LTE Band 66 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,5 RB Offest
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,14 RB Offest
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offest
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offest
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,74 RB Offest
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABIL- ITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BAND- WIDTH	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	131979 to 132665	131979, 132322, 132665	1.4MHz	256QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	256QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	256QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	256QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	256QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	256QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDEDTED EMIS- SION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB, 0 RB Offest

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

LTE Band 71 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	133147 to 133447	133147, 133297, 133447	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,24 RB Offset
	133172 to 133422	133172, 133297, 133422	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,49 RB Offset
	133197 to 133397	133197, 133297, 133397	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,74 RB Offset
	133222 to 133372	133222, 133297, 133372	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	133172 to 133422	133172, 133297, 133422	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	133147 to 133447	133147, 133297, 133447	5MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	133172 to 133422	133172, 133297, 133422	10MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	133197 to 133397	133197, 133297, 133397	15MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
	133222 to 133372	133222, 133297, 133372	20MHz	QPSK, 16QAM, 64QAM, 256QAM	Full RB
PEAK TO AVERAGE RATIO	133147 to 133447	133147, 133297, 133447	5MHz	256QAM	Full RB
	133172 to 133422	133172, 133297, 133422	10MHz	256QAM	Full RB
	133197 to 133397	133197, 133297, 133397	15MHz	256QAM	Full RB
	133222 to 133372	133222, 133297, 133372	20MHz	256QAM	Full RB
CONDCUDED EMIS-SION	133147 to 133447	133147, 133297, 133447	5MHz	QPSK,	1 RB, 0 RB Offset
	133172 to 133422	133172, 133297, 133422	10MHz	QPSK,	1 RB, 0 RB Offset
	133197 to 133397	133197, 133297, 133397	15MHz	QPSK,	1 RB, 0 RB Offset
	133222 to 133372	133222, 133297, 133372	20MHz	QPSK,	1 RB, 0 RB Offset
EMISSION MASK	133147 to 133447	133147, 133297, 133447	5MHz	QPSK,	1 RB/ 0,24 RB Offset 25 RB/ 0 Offset
	133172 to 133422	133172, 133297, 133422	10MHz	QPSK,	1 RB/ 0,49 RB Offset 50 RB/ 0 Offset
	133197 to 133397	133197, 133297, 133397	15MHz	QPSK,	1 RB/ 0,74 RB Offset 75 RB/ 0 Offset
	133222 to 133372	133222, 133297, 133372	20MHz	QPSK,	1 RB/ 0,99 RB Offset 100 RB/ 0 Offset
RADIATED EMISSION	133222 to 133372	133222, 40620, 133372	20MHz	QPSK	1 RB, 0 RB Offset

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>. 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 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.

5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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>. 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 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.

6 MAXMUM OUTPUT POWER

6.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

6.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50 (a)

(3) for mobile and portable stations compliant with 3GPP LTE standards transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band are limited to 250 mW/ 5MHz EIRP but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

FCC 27.50 (b)

(9) Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 30 watts ERP.

(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

FCC 27.50(c)

(9) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

(7) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band are limited to 2 watts EIRP.

FCC 27, 50(h)

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

FCC 90.542(a)

(6) Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 watts ERP.

(7) Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

FCC 90.635(b)

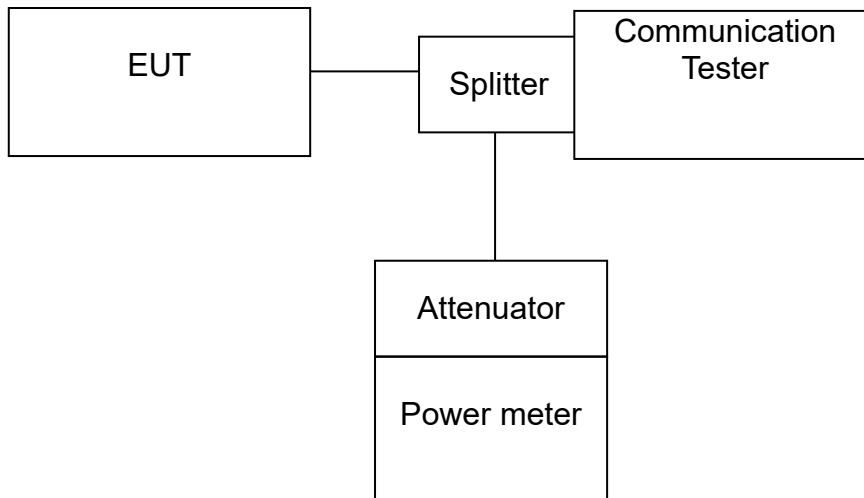
Mobile station is limited to 100W ERP

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>. 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 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.

6.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3 Output Power Measurement Applicable Guidance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCD-MA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

6.4 Determining ERP and/or EIRP from conducted RF output power measurements

$$ERP/EIRP = P_{Meas} + GT - LC$$

Where:

- ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);
- P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;
- GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)
- LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

6.5 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
Radio Communication Analyser	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Attenuator	Marvelous	MVE2213-10	RF30	11/20/2019	11/19/2020
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Splitter	Woken	DOM35LW1 A2	RF83	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A 185C	RF229	11/20/2019	11/19/2020

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/17/2020	03/16/2021

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

6.6 WCDMA & HSPA Measurement Results:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of 23 dBm (+2/-2). RMC 12.2kps is used for this testing.

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	22.93	4.00	24.78	26.93	33.00	-6.07
	1880.0	9400	22.61	4.00	24.46	26.61	33.00	-6.39
	1907.6	9538	22.55	4.00	24.40	26.55	33.00	-6.45
HSDPA	1852.4	9262	21.80	4.00	23.65	25.80	33.00	-7.20
	1880.0	9400	21.49	4.00	23.34	25.49	33.00	-7.51
	1907.6	9538	21.41	4.00	23.26	25.41	33.00	-7.59
HSUPA	1852.4	9262	21.95	4.00	23.80	25.95	33.00	-7.05
	1880.0	9400	21.59	4.00	23.44	25.59	33.00	-7.41
	1907.6	9538	21.41	4.00	23.26	25.41	33.00	-7.59

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	23.06	4.50	25.41	27.56	30.00	-2.44
	1732.6	1413	23.55	4.50	25.90	28.05	30.00	-1.95
	1752.6	1513	23.80	4.50	26.15	28.30	30.00	-1.70
HSDPA	1712.4	1312	22.10	4.50	24.45	26.60	30.00	-3.40
	1732.6	1413	22.37	4.50	24.72	26.87	30.00	-3.13
	1752.6	1513	22.65	4.50	25.00	27.15	30.00	-2.85
HSUPA	1712.4	1312	22.00	4.50	24.35	26.50	30.00	-3.50
	1732.6	1413	22.39	4.50	24.74	26.89	30.00	-3.11
	1752.6	1513	22.80	4.50	25.15	27.30	30.00	-2.70

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。

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, 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 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.

WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.29	2.90	24.04	26.19	38.50	-12.31
	836.6	4183	23.39	2.90	24.14	26.29	38.50	-12.21
	846.6	4233	23.02	2.90	23.77	25.92	38.50	-12.58
HSDPA	826.4	4132	22.14	2.90	22.89	25.04	38.50	-13.46
	836.6	4183	22.41	2.90	23.16	25.31	38.50	-13.19
	846.6	4233	22.00	2.90	22.75	24.90	38.50	-13.60
HSUPA	826.4	4132	22.43	2.90	23.18	25.33	38.50	-13.17
	836.6	4183	22.54	2.90	23.29	25.44	38.50	-13.06
	846.6	4233	22.21	2.90	22.96	25.11	38.50	-13.39

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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

6.6.1 HSPA (HSDPA & HSUPA) Release 6:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1. RMC 12.2kps is used for this testing.

6.6.2 HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262.00	9400.00	9538.00
HSDPA II	1	21.80	21.49	21.41
	2	21.72	21.62	21.23
	3	21.39	20.91	20.92
	4	21.28	20.93	20.94

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSDPA V	1	22.14	22.41	22.00
	2	22.17	22.29	22.21
	3	21.68	21.89	21.57
	4	21.78	21.99	21.52

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312.00	1413.00	1513.00
HSDPA IV	1	22.10	22.37	22.65
	2	22.03	22.40	22.59
	3	21.53	21.79	21.81
	4	21.42	21.74	22.10

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。

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, 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 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.

6.6.3 HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262.00	9400.00	9538.00
HSUPA II	1	21.95	21.59	21.41
	2	21.49	21.18	21.03
	3	21.98	21.74	21.47
	4	21.94	21.63	21.54
	5	21.87	21.69	21.64
Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312.00	1413.00	1513.00
HSUPA IV	1	22.00	22.39	22.80
	2	21.57	21.76	22.39
	3	22.18	22.38	22.86
	4	22.09	22.46	22.76
	5	22.06	22.61	22.81

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>. 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 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.

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSUPA V	1	22.43	22.54	22.21
	2	21.82	22.07	22.00
	3	22.21	22.53	22.20
	4	22.31	22.40	22.16
	5	22.46	22.45	22.33

6.6.4 WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm then record the read. The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

6.7 LTE Measurement Results:

Antenna gain (dBi) 4									
LTE Band 2 Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	22.62	26.62	33	-6.38
				1	5	22.70	26.70	33	-6.3
				3	2	23.09	27.09	33	-5.91
				6	0	22.43	26.43	33	-6.57
	18900	1880	QPSK	1	0	22.63	26.63	33	-6.37
				1	5	22.68	26.68	33	-6.32
				3	2	22.72	26.72	33	-6.28
				6	0	22.50	26.50	33	-6.5
	19193	1909.3	QPSK	1	0	22.44	26.44	33	-6.56
				1	5	22.52	26.52	33	-6.48
				3	2	22.57	26.57	33	-6.43
				6	0	22.07	26.07	33	-6.93
	18607	1850.7	16QAM	1	0	22.76	26.76	33	-6.24
				1	5	22.85	26.85	33	-6.15
				3	2	22.45	26.45	33	-6.55
				6	0	21.56	25.56	33	-7.44
	18900	1880	16QAM	1	0	22.54	26.54	33	-6.46
				1	5	22.68	26.68	33	-6.32
				3	2	22.62	26.62	33	-6.38
				6	0	21.64	25.64	33	-7.36
	19193	1909.3	16QAM	1	0	22.28	26.28	33	-6.72
				1	5	22.19	26.19	33	-6.81
				3	2	22.17	26.17	33	-6.83
				6	0	21.27	25.27	33	-7.73
	18607	1850.7	64QAM	1	0	20.33	24.33	33	-8.67
				1	5	20.53	24.53	33	-8.47
				3	2	20.78	24.78	33	-8.22
				6	0	19.61	23.61	33	-9.39
	18900	1880	64QAM	1	0	20.65	24.65	33	-8.35
				1	5	20.80	24.80	33	-8.2
				3	2	20.94	24.94	33	-8.06
				6	0	19.73	23.73	33	-9.27
	19193	1909.3	64QAM	1	0	20.38	24.38	33	-8.62
				1	5	20.33	24.33	33	-8.67
				3	2	20.24	24.24	33	-8.76
				6	0	19.39	23.39	33	-9.61
	18607	1850.7	256QAM	1	0	19.34	23.34	33	-9.66
				1	5	19.25	23.25	33	-9.75
				3	2	19.18	23.18	33	-9.82
				6	0	18.89	22.89	33	-10.11
	18900	1880	256QAM	1	0	19.42	23.42	33	-9.58
				1	5	19.25	23.25	33	-9.75
				3	2	19.09	23.09	33	-9.91
				6	0	18.95	22.95	33	-10.05
	19193	1909.3	256QAM	1	0	19.47	23.47	33	-9.53
				1	5	19.42	23.42	33	-9.58
				3	2	19.16	23.16	33	-9.84
				6	0	19.01	23.01	33	-9.99

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>. 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 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.

Antenna gain (dBi)

4

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	22.91	26.91	33	-6.09
				1	14	22.99	26.99	33	-6.01
				8	4	22.45	26.45	33	-6.55
				15	0	22.38	26.38	33	-6.62
	18900	1880	QPSK	1	0	22.57	26.57	33	-6.43
				1	14	22.51	26.51	33	-6.49
				8	4	22.39	26.39	33	-6.61
				15	0	22.34	26.34	33	-6.66
	19185	1908.5	QPSK	1	0	22.56	26.56	33	-6.44
				1	14	22.72	26.72	33	-6.28
				8	4	22.21	26.21	33	-6.79
				15	0	22.14	26.14	33	-6.86
	18615	1851.5	16QAM	1	0	22.30	26.30	33	-6.7
				1	14	22.49	26.49	33	-6.51
				8	4	21.64	25.64	33	-7.36
				15	0	21.53	25.53	33	-7.47
	18900	1880	16QAM	1	0	22.74	26.74	33	-6.26
				1	14	22.85	26.85	33	-6.15
				8	4	21.56	25.56	33	-7.44
				15	0	21.65	25.65	33	-7.35
	19185	1908.5	16QAM	1	0	22.38	26.38	33	-6.62
				1	14	22.33	26.33	33	-6.67
				8	4	21.39	25.39	33	-7.61
				15	0	21.33	25.33	33	-7.67
	18615	1851.5	64QAM	1	0	22.31	26.31	33	-6.69
				1	14	22.41	26.41	33	-6.59
				8	4	21.50	25.50	33	-7.5
				15	0	21.44	25.44	33	-7.56
	18900	1880	64QAM	1	0	22.51	26.51	33	-6.49
				1	14	22.66	26.66	33	-6.34
				8	4	21.66	25.66	33	-7.34
				15	0	21.66	25.66	33	-7.34
	19185	1908.5	64QAM	1	0	22.60	26.60	33	-6.4
				1	14	22.47	26.47	33	-6.53
				8	4	21.28	25.28	33	-7.72
				15	0	21.23	25.23	33	-7.77
	18615	1851.5	256QAM	1	0	19.33	23.33	33	-9.67
				1	14	19.30	23.30	33	-9.7
				8	4	19.03	23.03	33	-9.97
				15	0	18.95	22.95	33	-10.05
	18900	1880	256QAM	1	0	19.48	23.48	33	-9.52
				1	14	19.36	23.36	33	-9.64
				8	4	19.12	23.12	33	-9.88
				15	0	19.02	23.02	33	-9.98
	19185	1908.5	256QAM	1	0	19.61	23.61	33	-9.39
				1	14	19.40	23.40	33	-9.6
				8	4	19.17	23.17	33	-9.83
				15	0	19.12	23.12	33	-9.88

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi)

4

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	22.59	26.59	33	-6.41
				1	24	22.70	26.70	33	-6.3
				12	6	22.58	26.58	33	-6.42
				25	0	22.38	26.38	33	-6.62
	18900	1880	QPSK	1	0	22.58	26.58	33	-6.42
				1	24	22.39	26.39	33	-6.61
				12	6	22.44	26.44	33	-6.56
				25	0	22.31	26.31	33	-6.69
	19175	1907.5	QPSK	1	0	22.47	26.47	33	-6.53
				1	24	21.87	25.87	33	-7.13
				12	6	22.26	26.26	33	-6.74
				25	0	22.09	26.09	33	-6.91
	18625	1852.5	16QAM	1	0	22.27	26.27	33	-6.73
				1	24	22.66	26.66	33	-6.34
				12	6	21.75	25.75	33	-7.25
				25	0	21.69	25.69	33	-7.31
	18900	1880	16QAM	1	0	22.13	26.13	33	-6.87
				1	24	22.38	26.38	33	-6.62
				12	6	21.63	25.63	33	-7.37
				25	0	21.40	25.40	33	-7.6
	19175	1907.5	16QAM	1	0	22.05	26.05	33	-6.95
				1	24	22.09	26.09	33	-6.91
				12	6	21.39	25.39	33	-7.61
				25	0	21.26	25.26	33	-7.74
	18625	1852.5	64QAM	1	0	22.49	26.49	33	-6.51
				1	24	22.95	26.95	33	-6.05
				12	6	21.73	25.73	33	-7.27
				25	0	21.61	25.61	33	-7.39
	18900	1880	64QAM	1	0	22.50	26.50	33	-6.5
				1	24	22.77	26.77	33	-6.23
				12	6	21.38	25.38	33	-7.62
				25	0	21.53	25.53	33	-7.47
	19175	1907.5	64QAM	1	0	22.19	26.19	33	-6.81
				1	24	22.16	26.16	33	-6.84
				12	6	21.31	25.31	33	-7.69
				25	0	21.12	25.12	33	-7.88
	18625	1852.5	256QAM	1	0	19.35	23.35	33	-9.65
				1	24	19.34	23.34	33	-9.66
				12	6	18.96	22.96	33	-10.04
				25	0	18.83	22.83	33	-10.17
	18900	1880	256QAM	1	0	19.59	23.59	33	-9.41
				1	24	19.34	23.34	33	-9.66
				12	6	19.08	23.08	33	-9.92
				25	0	18.96	22.96	33	-10.04
	19175	1907.5	256QAM	1	0	19.45	23.45	33	-9.55
				1	24	19.39	23.39	33	-9.61
				12	6	19.22	23.22	33	-9.78
				25	0	19.07	23.07	33	-9.93

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	23.08	27.08	33	-5.92
				1	49	22.09	26.09	33	-6.91
				25	12	22.78	26.78	33	-6.22
				50	0	22.63	26.63	33	-6.37
	18900	1880	QPSK	1	0	22.51	26.51	33	-6.49
				1	49	22.46	26.46	33	-6.54
				25	12	22.49	26.49	33	-6.51
				50	0	22.38	26.38	33	-6.62
	19150	1905	QPSK	1	0	22.43	26.43	33	-6.57
				1	49	22.46	26.46	33	-6.54
				25	12	22.20	26.20	33	-6.8
				50	0	22.05	26.05	33	-6.95
	18650	1855	16QAM	1	0	22.35	26.35	33	-6.65
				1	49	23.05	27.05	33	-5.95
				25	12	21.79	25.79	33	-7.21
				50	0	21.70	25.70	33	-7.3
	18900	1880	16QAM	1	0	22.43	26.43	33	-6.57
				1	49	22.60	26.60	33	-6.4
				25	12	21.56	25.56	33	-7.44
				50	0	21.49	25.49	33	-7.51
	19150	1905	16QAM	1	0	22.41	26.41	33	-6.59
				1	49	22.43	26.43	33	-6.57
				25	12	21.24	25.24	33	-7.76
				50	0	21.15	25.15	33	-7.85
	18650	1855	64QAM	1	0	22.28	26.28	33	-6.72
				1	49	23.04	27.04	33	-5.96
				25	12	21.79	25.79	33	-7.21
				50	0	21.69	25.69	33	-7.31
	18900	1880	64QAM	1	0	22.53	26.53	33	-6.47
				1	49	22.69	26.69	33	-6.31
				25	12	21.57	25.57	33	-7.43
				50	0	21.49	25.49	33	-7.51
	19150	1905	64QAM	1	0	22.34	26.34	33	-6.66
				1	49	22.22	26.22	33	-6.78
				25	12	21.33	25.33	33	-7.67
				50	0	21.09	25.09	33	-7.91
	18650	1855	256QAM	1	0	19.59	23.59	33	-9.41
				1	49	19.43	23.43	33	-9.57
				25	12	19.09	23.09	33	-9.91
				50	0	18.97	22.97	33	-10.03
	18900	1880	256QAM	1	0	19.46	23.46	33	-9.54
				1	49	19.30	23.30	33	-9.7
				25	12	19.06	23.06	33	-9.94
				50	0	19.05	23.05	33	-9.95
	19150	1905	256QAM	1	0	19.57	23.57	33	-9.43
				1	49	19.35	23.35	33	-9.65
				25	12	19.11	23.11	33	-9.89
				50	0	19.06	23.06	33	-9.94

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	22.98	26.98	33	-6.02
				1	74	23.16	27.16	33	-5.84
				36	18	22.91	26.91	33	-6.09
				75	0	22.69	26.69	33	-6.31
	18900	1880	QPSK	1	0	22.87	26.87	33	-6.13
				1	74	22.76	26.76	33	-6.24
				36	18	22.53	26.53	33	-6.47
				75	0	22.43	26.43	33	-6.57
	19125	1902.5	QPSK	1	0	22.89	26.89	33	-6.11
				1	74	22.83	26.83	33	-6.17
				36	18	22.17	26.17	33	-6.83
				75	0	22.04	26.04	33	-6.96
	18675	1857.5	16QAM	1	0	22.42	26.42	33	-6.58
				1	74	22.93	26.93	33	-6.07
				36	18	22.04	26.04	33	-6.96
				75	0	21.84	25.84	33	-7.16
	18900	1880	16QAM	1	0	22.54	26.54	33	-6.46
				1	74	22.77	26.77	33	-6.23
				36	18	21.64	25.64	33	-7.36
				75	0	21.57	25.57	33	-7.43
	19125	1902.5	16QAM	1	0	22.22	26.22	33	-6.78
				1	74	22.28	26.28	33	-6.72
				36	18	21.27	25.27	33	-7.73
				75	0	21.19	25.19	33	-7.81
	18675	1857.5	64QAM	1	0	22.35	26.35	33	-6.65
				1	74	22.86	26.86	33	-6.14
				36	18	21.99	25.99	33	-7.01
				75	0	21.81	25.81	33	-7.19
	18900	1880	64QAM	1	0	22.37	26.37	33	-6.63
				1	74	22.60	26.60	33	-6.4
				36	18	21.63	25.63	33	-7.37
				75	0	21.59	25.59	33	-7.41
	19125	1902.5	64QAM	1	0	22.02	26.02	33	-6.98
				1	74	22.08	26.08	33	-6.92
				36	18	21.25	25.25	33	-7.75
				75	0	21.13	25.13	33	-7.87
	18675	1857.5	256QAM	1	0	19.45	23.45	33	-9.55
				1	74	19.38	23.38	33	-9.62
				36	18	19.15	23.15	33	-9.85
				75	0	19.06	23.06	33	-9.94
	18900	1880	256QAM	1	0	19.46	23.46	33	-9.54
				1	74	19.38	23.38	33	-9.62
				36	18	19.28	23.28	33	-9.72
				75	0	19.22	23.22	33	-9.78
	19125	1902.5	256QAM	1	0	19.73	23.73	33	-9.27
				1	74	19.62	23.62	33	-9.38
				36	18	19.54	23.54	33	-9.46
				75	0	19.43	23.43	33	-9.57

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi)

4

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	23.34	27.34	33	-5.66
				1	99	23.07	27.07	33	-5.93
				50	25	22.85	26.85	33	-6.15
				100	0	22.71	26.71	33	-6.29
	18900	1880	QPSK	1	0	22.89	26.89	33	-6.11
				1	99	21.96	25.96	33	-7.04
				50	25	22.52	26.52	33	-6.48
				100	0	22.39	26.39	33	-6.61
	19100	1900	QPSK	1	0	22.70	26.70	33	-6.3
				1	99	22.45	26.45	33	-6.55
				50	25	22.09	26.09	33	-6.91
				100	0	21.97	25.97	33	-7.03
	18700	1860	16QAM	1	0	22.39	26.39	33	-6.61
				1	99	22.68	26.68	33	-6.32
				50	25	21.98	25.98	33	-7.02
				100	0	21.79	25.79	33	-7.21
	18900	1880	16QAM	1	0	22.23	26.23	33	-6.77
				1	99	22.58	26.58	33	-6.42
				50	25	21.60	25.60	33	-7.4
				100	0	21.52	25.52	33	-7.48
	19100	1900	16QAM	1	0	22.52	26.52	33	-6.48
				1	99	22.49	26.49	33	-6.51
				50	25	21.17	25.17	33	-7.83
				100	0	21.08	25.08	33	-7.92
	18700	1860	64QAM	1	0	21.24	25.24	33	-7.76
				1	99	21.49	25.49	33	-7.51
				50	25	21.99	25.99	33	-7.01
				100	0	21.70	25.70	33	-7.3
	18900	1880	64QAM	1	0	22.49	26.49	33	-6.51
				1	99	22.64	26.64	33	-6.36
				50	25	21.61	25.61	33	-7.39
				100	0	21.53	25.53	33	-7.47
	19100	1900	64QAM	1	0	22.37	26.37	33	-6.63
				1	99	22.34	26.34	33	-6.66
				50	25	21.22	25.22	33	-7.78
				100	0	21.13	25.13	33	-7.87
	18700	1860	256QAM	1	0	19.53	23.53	33	-9.47
				1	99	19.33	23.33	33	-9.67
				50	25	19.14	23.14	33	-9.86
				100	0	19.02	23.02	33	-9.98
	18900	1880	256QAM	1	0	19.47	23.47	33	-9.53
				1	99	19.41	23.41	33	-9.59
				50	25	19.32	23.32	33	-9.68
				100	0	19.24	23.24	33	-9.76
	19100	1900	256QAM	1	0	19.73	23.73	33	-9.27
				1	99	19.67	23.67	33	-9.33
				50	25	19.41	23.41	33	-9.59
				100	0	19.31	23.31	33	-9.69

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4.5

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	22.95	27.45	30	-2.55
				1	5	23.05	27.55	30	-2.45
				3	2	22.88	27.38	30	-2.62
				6	0	21.94	26.44	30	-3.56
	20175	1732.5	QPSK	1	0	23.43	27.93	30	-2.07
				1	5	23.48	27.98	30	-2.02
				3	2	23.62	28.12	30	-1.88
				6	0	22.72	27.22	30	-2.78
	20393	1754.3	QPSK	1	0	23.55	28.05	30	-1.95
				1	5	23.59	28.09	30	-1.91
				3	2	23.12	27.62	30	-2.38
				6	0	23.42	27.92	30	-2.08
	19957	1710.7	16QAM	1	0	21.94	26.44	30	-3.56
				1	5	22.16	26.66	30	-3.34
				3	2	22.08	26.58	30	-3.42
				6	0	21.08	25.58	30	-4.42
	20175	1732.5	16QAM	1	0	22.74	27.24	30	-2.76
				1	5	22.61	27.11	30	-2.89
				3	2	22.88	27.38	30	-2.62
				6	0	21.81	26.31	30	-3.69
	20393	1754.3	16QAM	1	0	23.15	27.65	30	-2.35
				1	5	23.20	27.70	30	-2.3
				3	2	23.32	27.82	30	-2.18
				6	0	22.18	26.68	30	-3.32
	19957	1710.7	64QAM	1	0	20.32	24.82	30	-5.18
				1	5	20.46	24.96	30	-5.04
				3	2	20.37	24.87	30	-5.13
				6	0	19.19	23.69	30	-6.31
	20175	1732.5	64QAM	1	0	21.26	25.76	30	-4.24
				1	5	21.22	25.72	30	-4.28
				3	2	21.20	25.70	30	-4.3
				6	0	20.05	24.55	30	-5.45
	20393	1754.3	64QAM	1	0	21.58	26.08	30	-3.92
				1	5	21.64	26.14	30	-3.86
				3	2	21.71	26.21	30	-3.79
				6	0	20.71	25.21	30	-4.79
	19957	1710.7	256QAM	1	0	20.32	19.41	30	-10.59
				1	5	20.46	19.52	30	-10.48
				3	2	20.37	19.40	30	-10.6
				6	0	19.19	19.24	30	-10.76
	20175	1732.5	256QAM	1	0	21.26	20.19	30	-9.81
				1	5	21.22	20.12	30	-9.88
				3	2	21.20	19.96	30	-10.04
				6	0	20.05	19.87	30	-10.13
	20393	1754.3	256QAM	1	0	21.58	20.51	30	-9.49
				1	5	21.64	20.45	30	-9.55
				3	2	21.71	20.19	30	-9.81
				6	0	20.71	19.99	30	-10.01

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4.5

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	22.82	27.32	30	-2.68
				1	14	23.12	27.62	30	-2.38
				8	4	22.20	26.70	30	-3.3
				15	0	22.00	26.50	30	-3.5
	20175	1732.5	QPSK	1	0	23.51	28.01	30	-1.99
				1	14	23.57	28.07	30	-1.93
				8	4	22.75	27.25	30	-2.75
				15	0	22.67	27.17	30	-2.83
	20385	1753.5	QPSK	1	0	23.79	28.29	30	-1.71
				1	14	23.70	28.20	30	-1.8
				8	4	23.45	27.95	30	-2.05
				15	0	23.34	27.84	30	-2.16
	19965	1711.5	16QAM	1	0	22.07	26.57	30	-3.43
				1	14	22.43	26.93	30	-3.07
				8	4	21.34	25.84	30	-4.16
				15	0	21.14	25.64	30	-4.36
	20175	1732.5	16QAM	1	0	23.10	27.60	30	-2.4
				1	14	22.97	27.47	30	-2.53
				8	4	22.00	26.50	30	-3.5
				15	0	21.85	26.35	30	-3.65
	20385	1753.5	16QAM	1	0	23.51	28.01	30	-1.99
				1	14	23.51	28.01	30	-1.99
				8	4	22.66	27.16	30	-2.84
				15	0	22.62	27.12	30	-2.88
	19965	1711.5	64QAM	1	0	20.36	24.86	30	-5.14
				1	14	20.78	25.28	30	-4.72
				8	4	19.54	24.04	30	-5.96
				15	0	19.42	23.92	30	-6.08
	20175	1732.5	64QAM	1	0	21.20	25.70	30	-4.3
				1	14	21.12	25.62	30	-4.38
				8	4	20.13	24.63	30	-5.37
				15	0	20.09	24.59	30	-5.41
	20385	1753.5	64QAM	1	0	21.79	26.29	30	-3.71
				1	14	21.93	26.43	30	-3.57
				8	4	20.92	25.42	30	-4.58
				15	0	20.69	25.19	30	-4.81
	19965	1711.5	256QAM	1	0	20.05	24.55	30	-5.45
				1	14	19.74	24.24	30	-5.76
				8	4	19.69	24.19	30	-5.81
				15	0	19.58	24.08	30	-5.92
	20175	1732.5	256QAM	1	0	20.28	24.78	30	-5.22
				1	14	20.25	24.75	30	-5.25
				8	4	20.01	24.51	30	-5.49
				15	0	19.96	24.46	30	-5.54
	20385	1753.5	256QAM	1	0	20.56	25.06	30	-4.94
				1	14	20.44	24.94	30	-5.06
				8	4	20.37	24.87	30	-5.13
				15	0	20.21	24.71	30	-5.29

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4.5

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	22.81	27.31	30	-2.69
				1	24	23.32	27.82	30	-2.18
				12	6	22.27	26.77	30	-3.23
				25	0	22.07	26.57	30	-3.43
	20175	1732.5	QPSK	1	0	23.45	27.95	30	-2.05
				1	24	23.48	27.98	30	-2.02
				12	6	22.71	27.21	30	-2.79
				25	0	22.58	27.08	30	-2.92
	20375	1752.5	QPSK	1	0	23.76	28.26	30	-1.74
				1	24	23.86	28.36	30	-1.64
				12	6	23.47	27.97	30	-2.03
				25	0	23.34	27.84	30	-2.16
	19975	1712.5	16QAM	1	0	21.93	26.43	30	-3.57
				1	24	22.56	27.06	30	-2.94
				12	6	21.44	25.94	30	-4.06
				25	0	21.32	25.82	30	-4.18
	20175	1732.5	16QAM	1	0	22.89	27.39	30	-2.61
				1	24	22.71	27.21	30	-2.79
				12	6	21.86	26.36	30	-3.64
				25	0	21.83	26.33	30	-3.67
	20375	1752.5	16QAM	1	0	23.17	27.67	30	-2.33
				1	24	23.33	27.83	30	-2.17
				12	6	22.51	27.01	30	-2.99
				25	0	22.45	26.95	30	-3.05
	19975	1712.5	64QAM	1	0	20.03	24.53	30	-5.47
				1	24	20.71	25.21	30	-4.79
				12	6	19.56	24.06	30	-5.94
				25	0	19.47	23.97	30	-6.03
	20175	1732.5	64QAM	1	0	21.12	25.62	30	-4.38
				1	24	20.85	25.35	30	-4.65
				12	6	20.14	24.64	30	-5.36
				25	0	19.99	24.49	30	-5.51
	20375	1752.5	64QAM	1	0	21.53	26.03	30	-3.97
				1	24	21.81	26.31	30	-3.69
				12	6	20.76	25.26	30	-4.74
				25	0	20.63	25.13	30	-4.87
	19975	1712.5	256QAM	1	0	20.23	24.73	30	-5.27
				1	24	20.31	24.81	30	-5.19
				12	6	19.77	24.27	30	-5.73
				25	0	19.66	24.16	30	-5.84
	20175	1732.5	256QAM	1	0	20.31	24.81	30	-5.19
				1	24	20.17	24.67	30	-5.33
				12	6	20.03	24.53	30	-5.47
				25	0	19.95	24.45	30	-5.55
	20375	1752.5	256QAM	1	0	20.52	25.02	30	-4.98
				1	24	20.45	24.95	30	-5.05
				12	6	20.18	24.68	30	-5.32
				25	0	20.07	24.57	30	-5.43

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4.5

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	22.67	27.17	30	-2.83
				1	49	23.23	27.73	30	-2.27
				25	12	22.58	27.08	30	-2.92
				50	0	22.42	26.92	30	-3.08
	20175	1732.5	QPSK	1	0	23.53	28.03	30	-1.97
				1	49	23.35	27.85	30	-2.15
				25	12	22.62	27.12	30	-2.88
				50	0	22.49	26.99	30	-3.01
	20375	1750	QPSK	1	0	23.59	28.09	30	-1.91
				1	49	23.52	28.02	30	-1.98
				25	12	23.27	27.77	30	-2.23
				50	0	23.16	27.66	30	-2.34
	20000	1715	16QAM	1	0	21.78	26.28	30	-3.72
				1	49	22.97	27.47	30	-2.53
				25	12	21.59	26.09	30	-3.91
				50	0	21.57	26.07	30	-3.93
	20175	1732.5	16QAM	1	0	22.84	27.34	30	-2.66
				1	49	22.46	26.96	30	-3.04
				25	12	21.82	26.32	30	-3.68
				50	0	21.72	26.22	30	-3.78
	20375	1750	16QAM	1	0	23.30	27.80	30	-2.2
				1	49	23.52	28.02	30	-1.98
				25	12	22.40	26.90	30	-3.1
				50	0	22.28	26.78	30	-3.22
	20000	1715	64QAM	1	0	19.97	24.47	30	-5.53
				1	49	21.41	25.91	30	-4.09
				25	12	19.85	24.35	30	-5.65
				50	0	19.67	24.17	30	-5.83
	20175	1732.5	64QAM	1	0	21.32	25.82	30	-4.18
				1	49	20.86	25.36	30	-4.64
				25	12	20.06	24.56	30	-5.44
				50	0	19.93	24.43	30	-5.57
	20375	1750	64QAM	1	0	21.18	25.68	30	-4.32
				1	49	21.71	26.21	30	-3.79
				25	12	20.61	25.11	30	-4.89
				50	0	20.50	25.00	30	-5
	20000	1715	256QAM	1	0	19.88	24.38	30	-5.62
				1	49	19.69	24.19	30	-5.81
				25	12	19.59	24.09	30	-5.91
				50	0	19.56	24.06	30	-5.94
	20175	1732.5	256QAM	1	0	20.30	24.80	30	-5.2
				1	49	20.21	24.71	30	-5.29
				25	12	20.05	24.55	30	-5.45
				50	0	20.03	24.53	30	-5.47
	20375	1750	256QAM	1	0	20.31	24.81	30	-5.19
				1	49	20.24	24.74	30	-5.26
				25	12	20.06	24.56	30	-5.44
				50	0	19.97	24.47	30	-5.53

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4.5

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	22.87	27.37	30	-2.63
				1	74	23.54	28.04	30	-1.96
				36	18	22.96	27.46	30	-2.54
				75	0	22.80	27.30	30	-2.7
	20175	1732.5	QPSK	1	0	23.68	28.18	30	-1.82
				1	74	23.38	27.88	30	-2.12
				36	18	22.61	27.11	30	-2.89
				75	0	22.59	27.09	30	-2.91
	20325	1747.5	QPSK	1	0	23.75	28.25	30	-1.75
				1	74	23.52	28.02	30	-1.98
				36	18	23.15	27.65	30	-2.35
				75	0	22.98	27.48	30	-2.52
	20025	1717.5	16QAM	1	0	21.76	26.26	30	-3.74
				1	74	23.01	27.51	30	-2.49
				36	18	22.04	26.54	30	-3.46
				75	0	21.85	26.35	30	-3.65
	20175	1732.5	16QAM	1	0	22.86	27.36	30	-2.64
				1	74	22.25	26.75	30	-3.25
				36	18	21.84	26.34	30	-3.66
				75	0	21.78	26.28	30	-3.72
	20325	1747.5	16QAM	1	0	22.63	27.13	30	-2.87
				1	74	23.33	27.83	30	-2.17
				36	18	22.27	26.77	30	-3.23
				75	0	22.11	26.61	30	-3.39
	20025	1717.5	64QAM	1	0	20.11	24.61	30	-5.39
				1	74	21.69	26.19	30	-3.81
				36	18	20.24	24.74	30	-5.26
				75	0	19.99	24.49	30	-5.51
	20175	1732.5	64QAM	1	0	21.38	25.88	30	-4.12
				1	74	20.74	25.24	30	-4.76
				36	18	20.06	24.56	30	-5.44
				75	0	20.03	24.53	30	-5.47
	20325	1747.5	64QAM	1	0	20.75	25.25	30	-4.75
				1	74	21.55	26.05	30	-3.95
				36	18	20.45	24.95	30	-5.05
				75	0	20.34	24.84	30	-5.16
	20025	1717.5	256QAM	1	0	20.17	24.67	30	-5.33
				1	74	20.26	24.76	30	-5.24
				36	18	20.03	24.53	30	-5.47
				75	0	19.93	24.43	30	-5.57
	20175	1732.5	256QAM	1	0	20.35	24.85	30	-5.15
				1	74	20.20	24.70	30	-5.3
				36	18	20.16	24.66	30	-5.34
				75	0	20.07	24.57	30	-5.43
	20325	1747.5	256QAM	1	0	20.27	24.77	30	-5.23
				1	74	20.14	24.64	30	-5.36
				36	18	20.01	24.51	30	-5.49
				75	0	19.96	24.46	30	-5.54

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4.5

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	22.62	27.12	30	-2.88
				1	99	23.54	28.04	30	-1.96
				50	25	23.19	27.69	30	-2.31
				100	0	23.01	27.51	30	-2.49
	20175	1732.5	QPSK	1	0	23.67	28.17	30	-1.83
				1	99	23.54	28.04	30	-1.96
				50	25	22.65	27.15	30	-2.85
				100	0	22.85	27.35	30	-2.65
	20300	1745	QPSK	1	0	23.52	28.02	30	-1.98
				1	99	23.44	27.94	30	-2.06
				50	25	23.01	27.51	30	-2.49
				100	0	22.81	27.31	30	-2.69
	20050	1720	16QAM	1	0	22.17	26.67	30	-3.33
				1	99	23.33	27.83	30	-2.17
				50	25	22.18	26.68	30	-3.32
				100	0	21.91	26.41	30	-3.59
	20175	1732.5	16QAM	1	0	23.55	28.05	30	-1.95
				1	99	22.95	27.45	30	-2.55
				50	25	21.89	26.39	30	-3.61
				100	0	21.90	26.40	30	-3.6
	20300	1745	16QAM	1	0	22.64	27.14	30	-2.86
				1	99	23.29	27.79	30	-2.21
				50	25	22.14	26.64	30	-3.36
				100	0	22.02	26.52	30	-3.48
	20050	1720	64QAM	1	0	20.01	24.51	30	-5.49
				1	99	21.27	25.77	30	-4.23
				50	25	20.39	24.89	30	-5.11
				100	0	20.05	24.55	30	-5.45
	20175	1732.5	64QAM	1	0	21.49	25.99	30	-4.01
				1	99	20.87	25.37	30	-4.63
				50	25	20.08	24.58	30	-5.42
				100	0	20.12	24.62	30	-5.38
	20300	1745	64QAM	1	0	20.98	25.48	30	-4.52
				1	99	21.79	26.29	30	-3.71
				50	25	20.37	24.87	30	-5.13
				100	0	20.23	24.73	30	-5.27
	20050	1720	256QAM	1	0	20.24	24.74	30	-5.26
				1	99	20.08	24.58	30	-5.42
				50	25	19.95	24.45	30	-5.55
				100	0	19.88	24.38	30	-5.62
	20175	1732.5	256QAM	1	0	20.34	24.84	30	-5.16
				1	99	20.06	24.56	30	-5.44
				50	25	19.98	24.48	30	-5.52
				100	0	19.81	24.31	30	-5.69
	20300	1745	256QAM	1	0	20.03	24.53	30	-5.47
				1	99	20.37	24.87	30	-5.13
				50	25	20.20	24.70	30	-5.3
				100	0	20.12	24.62	30	-5.38

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 2.9

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	23.19	23.94	26.09	38.45	-12.36
				1	5	23.11	23.86	26.01	38.45	-12.44
				3	2	23.26	24.01	26.16	38.45	-12.29
				6	0	23.31	24.06	26.21	38.45	-12.24
	20525	836.5	QPSK	1	0	23.28	24.03	26.18	38.45	-12.27
				1	5	23.31	24.06	26.21	38.45	-12.24
				3	2	23.42	24.17	26.32	38.45	-12.13
				6	0	22.82	23.57	25.72	38.45	-12.73
	20643	848.3	QPSK	1	0	22.40	23.15	25.30	38.45	-13.15
				1	5	22.33	23.08	25.23	38.45	-13.22
				3	2	22.83	23.58	25.73	38.45	-12.72
				6	0	21.83	22.58	24.73	38.45	-13.72
	20407	824.7	16QAM	1	0	23.22	23.97	26.12	38.45	-12.33
				1	5	23.18	23.93	26.08	38.45	-12.37
				3	2	23.40	24.15	26.30	38.45	-12.15
				6	0	22.10	22.85	25.00	38.45	-13.45
	20525	836.5	16QAM	1	0	22.61	23.36	25.51	38.45	-12.94
				1	5	22.79	23.54	25.69	38.45	-12.76
				3	2	22.67	23.42	25.57	38.45	-12.88
				6	0	21.74	22.49	24.64	38.45	-13.81
	20643	848.3	16QAM	1	0	21.54	22.29	24.44	38.45	-14.01
				1	5	22.03	22.78	24.93	38.45	-13.52
				3	2	21.75	22.50	24.65	38.45	-13.8
				6	0	20.63	21.38	23.53	38.45	-14.92
	20407	824.7	64QAM	1	0	21.61	22.36	24.51	38.45	-13.94
				1	5	21.59	22.34	24.49	38.45	-13.96
				3	2	21.67	22.42	24.57	38.45	-13.88
				6	0	20.32	21.07	23.22	38.45	-15.23
	20525	836.5	64QAM	1	0	20.55	21.30	23.45	38.45	-15
				1	5	20.90	21.65	23.80	38.45	-14.65
				3	2	20.79	21.54	23.69	38.45	-14.76
				6	0	19.65	20.40	22.55	38.45	-15.9
	20643	848.3	64QAM	1	0	19.62	20.37	22.52	38.45	-15.93
				1	5	20.02	20.77	22.92	38.45	-15.53
				3	2	19.78	20.53	22.68	38.45	-15.77
				6	0	18.74	19.49	21.64	38.45	-16.81
	20407	824.7	256QAM	1	0	18.96	19.71	21.86	38.45	-16.59
				1	5	18.79	19.54	21.69	38.45	-16.76
				3	2	19.10	19.85	22.00	38.45	-16.45
				6	0	19.06	19.81	21.96	38.45	-16.49
	20525	836.5	256QAM	1	0	18.69	19.44	21.59	38.45	-16.86
				1	5	18.43	19.18	21.33	38.45	-17.12
				3	2	18.72	19.47	21.62	38.45	-16.83
				6	0	18.36	19.11	21.26	38.45	-17.19
	20643	848.3	256QAM	1	0	18.58	19.33	21.48	38.45	-16.97
				1	5	18.47	19.22	21.37	38.45	-17.08
				3	2	18.43	19.18	21.33	38.45	-17.12
				6	0	18.39	19.14	21.29	38.45	-17.16

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 2.9

LTE Band 5 Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	23.35	24.10	26.25	38.45	-12.2
				1	14	23.23	23.98	26.13	38.45	-12.32
				8	4	23.41	24.16	26.31	38.45	-12.14
				15	0	23.38	24.13	26.28	38.45	-12.17
	20525	836.5	QPSK	1	0	23.40	24.15	26.30	38.45	-12.15
				1	14	23.43	24.18	26.33	38.45	-12.12
				8	4	22.68	23.43	25.58	38.45	-12.87
				15	0	22.75	23.50	25.65	38.45	-12.8
	20635	847.5	QPSK	1	0	22.34	23.09	25.24	38.45	-13.21
				1	14	23.21	23.96	26.11	38.45	-12.34
				8	4	21.89	22.64	24.79	38.45	-13.66
				15	0	21.92	22.67	24.82	38.45	-13.63
	20415	825.5	16QAM	1	0	22.86	23.61	25.76	38.45	-12.69
				1	14	22.74	23.49	25.64	38.45	-12.81
				8	4	22.47	23.22	25.37	38.45	-13.08
				15	0	22.36	23.11	25.26	38.45	-13.19
	20525	836.5	16QAM	1	0	22.88	23.63	25.78	38.45	-12.67
				1	14	23.32	24.07	26.22	38.45	-12.23
				8	4	21.96	22.71	24.86	38.45	-13.59
				15	0	21.94	22.69	24.84	38.45	-13.61
	20635	847.5	16QAM	1	0	21.60	22.35	24.50	38.45	-13.95
				1	14	22.44	23.19	25.34	38.45	-13.11
				8	4	20.95	21.70	23.85	38.45	-14.6
				15	0	20.88	21.63	23.78	38.45	-14.67
	20415	825.5	64QAM	1	0	21.27	22.02	24.17	38.45	-14.28
				1	14	21.39	22.14	24.29	38.45	-14.16
				8	4	20.46	21.21	23.36	38.45	-15.09
				15	0	20.34	21.09	23.24	38.45	-15.21
	20525	836.5	64QAM	1	0	20.59	21.34	23.49	38.45	-14.96
				1	14	21.28	22.03	24.18	38.45	-14.27
				8	4	19.84	20.59	22.74	38.45	-15.71
				15	0	19.56	20.31	22.46	38.45	-15.99
	20635	847.5	64QAM	1	0	19.57	20.32	22.47	38.45	-15.98
				1	14	20.41	21.16	23.31	38.45	-15.14
				8	4	18.73	19.48	21.63	38.45	-16.82
				15	0	18.64	19.39	21.54	38.45	-16.91
	20415	825.5	256QAM	1	0	18.68	19.43	21.58	38.45	-16.87
				1	14	18.59	19.34	21.49	38.45	-16.96
				8	4	19.07	19.82	21.97	38.45	-16.48
				15	0	19.01	19.76	21.91	38.45	-16.54
	20525	836.5	256QAM	1	0	18.73	19.48	21.63	38.45	-16.82
				1	14	18.69	19.44	21.59	38.45	-16.86
				8	4	18.53	19.28	21.43	38.45	-17.02
				15	0	18.44	19.19	21.34	38.45	-17.11
	20635	847.5	256QAM	1	0	18.75	19.50	21.65	38.45	-16.8
				1	14	18.50	19.25	21.40	38.45	-17.05
				8	4	18.48	19.23	21.38	38.45	-17.07
				15	0	18.35	19.10	21.25	38.45	-17.2

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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 2.9

LTE Band 5_ Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	23.44	24.19	26.34	38.45	-12.11
				1	24	23.32	24.07	26.22	38.45	-12.23
				12	6	23.29	24.04	26.19	38.45	-12.26
				25	0	23.34	24.09	26.24	38.45	-12.21
	20525	836.5	QPSK	1	0	23.20	23.95	26.10	38.45	-12.35
				1	24	23.55	24.30	26.45	38.45	-12
				12	6	22.89	23.64	25.79	38.45	-12.66
				25	0	22.95	23.70	25.85	38.45	-12.6
	20625	846.5	QPSK	1	0	22.35	23.10	25.25	38.45	-13.2
				1	24	23.04	23.79	25.94	38.45	-12.51
				12	6	21.31	22.06	24.21	38.45	-14.24
				25	0	21.48	22.23	24.38	38.45	-14.07
	20425	826.5	16QAM	1	0	23.15	23.90	26.05	38.45	-12.4
				1	24	23.23	23.98	26.13	38.45	-12.32
				12	6	22.33	23.08	25.23	38.45	-13.22
				25	0	22.23	22.98	25.13	38.45	-13.32
	20525	836.5	16QAM	1	0	22.54	23.29	25.44	38.45	-13.01
				1	24	22.80	23.55	25.70	38.45	-12.75
				12	6	21.76	22.51	24.66	38.45	-13.79
				25	0	21.77	22.52	24.67	38.45	-13.78
	20625	846.5	16QAM	1	0	21.62	22.37	24.52	38.45	-13.93
				1	24	22.22	22.97	25.12	38.45	-13.33
				12	6	20.10	20.85	23.00	38.45	-15.45
				25	0	20.46	21.21	23.36	38.45	-15.09
	20425	826.5	64QAM	1	0	21.36	22.11	24.26	38.45	-14.19
				1	24	20.90	21.65	23.80	38.45	-14.65
				12	6	20.35	21.10	23.25	38.45	-15.2
				25	0	20.19	20.94	23.09	38.45	-15.36
	20525	836.5	64QAM	1	0	20.13	20.88	23.03	38.45	-15.42
				1	24	21.07	21.82	23.97	38.45	-14.48
				12	6	19.73	20.48	22.63	38.45	-15.82
				25	0	19.65	20.40	22.55	38.45	-15.9
	20625	846.5	64QAM	1	0	19.52	20.27	22.42	38.45	-16.03
				1	24	20.04	20.79	22.94	38.45	-15.51
				12	6	18.08	18.83	20.98	38.45	-17.47
				25	0	18.32	19.07	21.22	38.45	-17.23
	20425	826.5	256QAM	1	0	19.06	19.81	21.96	38.45	-16.49
				1	24	18.61	19.36	21.51	38.45	-16.94
				12	6	19.00	19.75	21.90	38.45	-16.55
				25	0	19.01	19.76	21.91	38.45	-16.54
	20525	836.5	256QAM	1	0	18.82	19.57	21.72	38.45	-16.73
				1	24	18.31	19.06	21.21	38.45	-17.24
				12	6	18.41	19.16	21.31	38.45	-17.14
				25	0	18.43	19.18	21.33	38.45	-17.12
	20625	846.5	256QAM	1	0	18.81	19.56	21.71	38.45	-16.74
				1	24	18.52	19.27	21.42	38.45	-17.03
				12	6	18.55	19.30	21.45	38.45	-17
				25	0	18.51	19.26	21.41	38.45	-17.04

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 2.9

LTE Band 5_ Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	23.38	24.13	26.28	38.45	-12.17
				1	49	23.08	23.83	25.98	38.45	-12.47
				25	12	22.70	23.45	25.60	38.45	-12.85
				50	0	22.69	23.44	25.59	38.45	-12.86
	20525	836.5	QPSK	1	0	23.36	24.11	26.26	38.45	-12.19
				1	49	23.51	24.26	26.41	38.45	-12.04
				25	12	23.14	23.89	26.04	38.45	-12.41
				50	0	23.22	23.97	26.12	38.45	-12.33
	20600	844	QPSK	1	0	23.48	24.23	26.38	38.45	-12.07
				1	49	23.13	23.88	26.03	38.45	-12.42
				25	12	21.79	22.54	24.69	38.45	-13.76
				50	0	22.16	22.91	25.06	38.45	-13.39
	20450	829	16QAM	1	0	22.78	23.53	25.68	38.45	-12.77
				1	49	22.21	22.96	25.11	38.45	-13.34
				25	12	21.80	22.55	24.70	38.45	-13.75
				50	0	21.50	22.25	24.40	38.45	-14.05
	20525	836.5	16QAM	1	0	22.98	23.73	25.88	38.45	-12.57
				1	49	23.13	23.88	26.03	38.45	-12.42
				25	12	22.36	23.11	25.26	38.45	-13.19
				50	0	21.90	22.65	24.80	38.45	-13.65
	20600	844	16QAM	1	0	23.20	23.95	26.10	38.45	-12.35
				1	49	22.73	23.48	25.63	38.45	-12.82
				25	12	20.97	21.72	23.87	38.45	-14.58
				50	0	21.17	21.92	24.07	38.45	-14.38
	20450	829	64QAM	1	0	21.57	22.32	24.47	38.45	-13.98
				1	49	20.30	21.05	23.20	38.45	-15.25
				25	12	19.71	20.46	22.61	38.45	-15.84
				50	0	19.42	20.17	22.32	38.45	-16.13
	20525	836.5	64QAM	1	0	20.63	21.38	23.53	38.45	-14.92
				1	49	21.50	22.25	24.40	38.45	-14.05
				25	12	20.09	20.84	22.99	38.45	-15.46
				50	0	19.69	20.44	22.59	38.45	-15.86
	20600	844	64QAM	1	0	21.41	22.16	24.31	38.45	-14.14
				1	49	20.13	20.88	23.03	38.45	-15.42
				25	12	18.97	19.72	21.87	38.45	-16.58
				50	0	19.12	19.87	22.02	38.45	-16.43
	20450	829	256QAM	1	0	19.13	19.88	22.03	38.45	-16.42
				1	49	18.84	19.59	21.74	38.45	-16.71
				25	12	18.52	19.27	21.42	38.45	-17.03
				50	0	18.59	19.34	21.49	38.45	-16.96
	20525	836.5	256QAM	1	0	19.28	20.03	22.18	38.45	-16.27
				1	49	18.72	19.47	21.62	38.45	-16.83
				25	12	18.49	19.24	21.39	38.45	-17.06
				50	0	18.53	19.28	21.43	38.45	-17.02
	20600	844	256QAM	1	0	18.15	18.90	21.05	38.45	-17.4
				1	49	17.76	18.51	20.66	38.45	-17.79
				25	12	17.81	18.56	20.71	38.45	-17.74
				50	0	17.89	18.64	20.79	38.45	-17.66

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 3.4

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	22.01	25.41	33	-7.59
				1	24	21.97	25.37	33	-7.63
				12	6	21.24	24.64	33	-8.36
				25	0	21.10	24.50	33	-8.5
	21100	2535	QPSK	1	0	22.72	26.12	33	-6.88
				1	24	22.53	25.93	33	-7.07
				12	6	21.90	25.30	33	-7.7
				25	0	21.73	25.13	33	-7.87
	21375	2567.5	QPSK	1	0	22.16	25.56	33	-7.44
				1	24	21.69	25.09	33	-7.91
				12	6	21.18	24.58	33	-8.42
				25	0	20.98	24.38	33	-8.62
	20775	2502.5	16QAM	1	0	21.08	24.48	33	-8.52
				1	24	21.09	24.49	33	-8.51
				12	6	20.40	23.80	33	-9.2
				25	0	20.29	23.69	33	-9.31
	21100	2535	16QAM	1	0	21.91	25.31	33	-7.69
				1	24	21.77	25.17	33	-7.83
				12	6	21.02	24.42	33	-8.58
				25	0	20.91	24.31	33	-8.69
	21375	2567.5	16QAM	1	0	21.25	24.65	33	-8.35
				1	24	20.83	24.23	33	-8.77
				12	6	20.26	23.66	33	-9.34
				25	0	20.05	23.45	33	-9.55
	20775	2502.5	64QAM	1	0	19.62	23.02	33	-9.98
				1	24	19.67	23.07	33	-9.93
				12	6	18.62	22.02	33	-10.98
				25	0	18.38	21.78	33	-11.22
	21100	2535	64QAM	1	0	20.12	23.52	33	-9.48
				1	24	20.00	23.40	33	-9.6
				12	6	19.22	22.62	33	-10.38
				25	0	19.08	22.48	33	-10.52
	21375	2567.5	64QAM	1	0	19.46	22.86	33	-10.14
				1	24	19.36	22.76	33	-10.24
				12	6	18.59	21.99	33	-11.01
				25	0	18.29	21.69	33	-11.31
	20775	2502.5	256QAM	1	0	21.34	24.74	33	-8.26
				1	24	21.18	24.58	33	-8.42
				12	6	20.39	23.79	33	-9.21
				25	0	20.28	23.68	33	-9.32
	21100	2535	256QAM	1	0	21.08	24.48	33	-8.52
				1	24	21.11	24.51	33	-8.49
				12	6	20.66	24.06	33	-8.94
				25	0	20.56	23.96	33	-9.04
	21375	2567.5	256QAM	1	0	19.18	22.58	33	-10.42
				1	24	18.52	21.92	33	-11.08
				12	6	18.92	22.32	33	-10.68
				25	0	18.74	22.14	33	-10.86

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。

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, 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 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.

Antenna gain (dBi)		3.4							
LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20800	2505	QPSK	1	0	21.89	25.29	33	-7.71
				1	49	22.36	25.76	33	-7.24
				25	12	21.14	24.54	33	-8.46
				50	0	21.16	24.56	33	-8.44
	21100	2535	QPSK	1	0	22.95	26.35	33	-6.65
				1	49	22.43	25.83	33	-7.17
				25	12	21.92	25.32	33	-7.68
				50	0	21.78	25.18	33	-7.82
	21350	2565	QPSK	1	0	21.83	25.23	33	-7.77
				1	49	21.69	25.09	33	-7.91
				25	12	21.15	24.55	33	-8.45
				50	0	21.22	24.62	33	-8.38
	20800	2505	16QAM	1	0	21.55	24.95	33	-8.05
				1	49	21.97	25.37	33	-7.63
				25	12	20.31	23.71	33	-9.29
				50	0	20.27	23.67	33	-9.33
	21100	2535	16QAM	1	0	22.26	25.66	33	-7.34
				1	49	21.75	25.15	33	-7.85
				25	12	21.01	24.41	33	-8.59
				50	0	20.84	24.24	33	-8.76
	21350	2565	16QAM	1	0	21.28	24.68	33	-8.32
				1	49	21.13	24.53	33	-8.47
				25	12	20.57	23.97	33	-9.03
				50	0	20.18	23.58	33	-9.42
	20800	2505	64QAM	1	0	19.42	22.82	33	-10.18
				1	49	19.98	23.38	33	-9.62
				25	12	18.53	21.93	33	-11.07
				50	0	18.41	21.81	33	-11.19
	21100	2535	64QAM	1	0	20.32	23.72	33	-9.28
				1	49	19.99	23.39	33	-9.61
				25	12	19.18	22.58	33	-10.42
				50	0	19.01	22.41	33	-10.59
	21350	2565	64QAM	1	0	19.35	22.75	33	-10.25
				1	49	19.52	22.92	33	-10.08
				25	12	18.50	21.90	33	-11.1
				50	0	18.25	21.65	33	-11.35
	20800	2505	256QAM	1	0	20.90	24.30	33	-8.7
				1	49	20.54	23.94	33	-9.06
				25	12	20.36	23.76	33	-9.24
				50	0	19.87	23.27	33	-9.73
	21100	2535	256QAM	1	0	20.37	23.77	33	-9.23
				1	49	20.32	23.72	33	-9.28
				25	12	20.61	24.01	33	-8.99
				50	0	20.38	23.78	33	-9.22
	21350	2565	256QAM	1	0	19.44	22.84	33	-10.16
				1	49	19.25	22.65	33	-10.35
				25	12	20.13	23.53	33	-9.47
				50	0	19.95	23.35	33	-9.65

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 3.4

LTE Band 7 Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20825	2507.5	QPSK	1	0	21.75	25.15	33	-7.85
				1	74	22.73	26.13	33	-6.87
				36	18	21.21	24.61	33	-8.39
				75	0	21.21	24.61	33	-8.39
	21100	2535	QPSK	1	0	22.88	26.28	33	-6.72
				1	74	22.20	25.60	33	-7.4
				36	18	21.81	25.21	33	-7.79
				75	0	21.68	25.08	33	-7.92
	21375	2562.5	QPSK	1	0	21.51	24.91	33	-8.09
				1	74	21.73	25.13	33	-7.87
				36	18	21.09	24.49	33	-8.51
				75	0	21.07	24.47	33	-8.53
	20825	2507.5	16QAM	1	0	20.94	24.34	33	-8.66
				1	74	21.99	25.39	33	-7.61
				36	18	20.21	23.61	33	-9.39
				75	0	20.41	23.81	33	-9.19
	21100	2535	16QAM	1	0	22.03	25.43	33	-7.57
				1	74	21.37	24.77	33	-8.23
				36	18	20.88	24.28	33	-8.72
				75	0	20.73	24.13	33	-8.87
	21375	2562.5	16QAM	1	0	20.77	24.17	33	-8.83
				1	74	21.22	24.62	33	-8.38
				36	18	20.22	23.62	33	-9.38
				75	0	20.02	23.42	33	-9.58
	20825	2507.5	64QAM	1	0	19.24	22.64	33	-10.36
				1	74	20.24	23.64	33	-9.36
				36	18	18.59	21.99	33	-11.01
				75	0	18.51	21.91	33	-11.09
	21100	2535	64QAM	1	0	20.07	23.47	33	-9.53
				1	74	19.74	23.14	33	-9.86
				36	18	19.01	22.41	33	-10.59
				75	0	18.95	22.35	33	-10.65
	21375	2562.5	64QAM	1	0	18.97	22.37	33	-10.63
				1	74	19.46	22.86	33	-10.14
				36	18	18.12	21.52	33	-11.48
				75	0	18.18	21.58	33	-11.42
	20825	2507.5	256QAM	1	0	20.59	23.99	33	-9.01
				1	74	20.41	23.81	33	-9.19
				36	18	20.13	23.53	33	-9.47
				75	0	19.99	23.39	33	-9.61
	21100	2535	256QAM	1	0	20.36	23.76	33	-9.24
				1	74	20.18	23.58	33	-9.42
				36	18	20.45	23.85	33	-9.15
				75	0	20.22	23.62	33	-9.38
	21375	2562.5	256QAM	1	0	18.78	22.18	33	-10.82
				1	74	18.56	21.96	33	-11.04
				36	18	19.57	22.97	33	-10.03
				75	0	19.17	22.57	33	-10.43

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 3.4

LTE Band 7 Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	22.03	25.43	33	-7.57
				1	99	23.02	26.42	33	-6.58
				50	25	21.54	24.94	33	-8.06
				100	0	21.69	25.09	33	-7.91
	21100	2535	QPSK	1	0	22.96	26.36	33	-6.64
				1	99	22.08	25.48	33	-7.52
				50	25	21.94	25.34	33	-7.66
				100	0	22.00	25.40	33	-7.6
	21350	2560	QPSK	1	0	21.45	24.85	33	-8.15
				1	99	21.90	25.30	33	-7.7
				50	25	21.13	24.53	33	-8.47
				100	0	20.72	24.12	33	-8.88
	20850	2510	16QAM	1	0	21.50	24.90	33	-8.1
				1	99	22.51	25.91	33	-7.09
				50	25	20.59	23.99	33	-9.01
				100	0	20.58	23.98	33	-9.02
	21100	2535	16QAM	1	0	22.52	25.92	33	-7.08
				1	99	21.67	25.07	33	-7.93
				50	25	20.98	24.38	33	-8.62
				100	0	20.76	24.16	33	-8.84
	21350	2560	16QAM	1	0	20.44	23.84	33	-9.16
				1	99	21.09	24.49	33	-8.51
				50	25	20.13	23.53	33	-9.47
				100	0	19.95	23.35	33	-9.65
	20850	2510	64QAM	1	0	18.97	22.37	33	-10.63
				1	99	20.20	23.60	33	-9.4
				50	25	18.75	22.15	33	-10.85
				100	0	18.74	22.14	33	-10.86
	21100	2535	64QAM	1	0	20.03	23.43	33	-9.57
				1	99	19.33	22.73	33	-10.27
				50	25	19.16	22.56	33	-10.44
				100	0	18.90	22.30	33	-10.7
	21350	2560	64QAM	1	0	18.80	22.20	33	-10.8
				1	99	19.50	22.90	33	-10.1
				50	25	18.24	21.64	33	-11.36
				100	0	17.99	21.39	33	-11.61
	20850	2510	256QAM	1	0	20.54	23.94	33	-9.06
				1	99	20.37	23.77	33	-9.23
				50	25	19.71	23.11	33	-9.89
				100	0	19.78	23.18	33	-9.82
	21100	2535	256QAM	1	0	20.61	24.01	33	-8.99
				1	99	19.71	23.11	33	-9.89
				50	25	20.26	23.66	33	-9.34
				100	0	19.90	23.30	33	-9.7
	21350	2560	256QAM	1	0	19.19	22.59	33	-10.41
				1	99	19.04	22.44	33	-10.56
				50	25	19.42	22.82	33	-10.18
				100	0	18.84	22.24	33	-10.76

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi)

3

LTE Band 12 Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	23.03	23.88	26.03	34.77	-8.74
				1	5	22.80	23.65	25.80	34.77	-8.97
				3	2	23.13	23.98	26.13	34.77	-8.64
				6	0	22.62	23.47	25.62	34.77	-9.15
	23095	707.5	QPSK	1	0	23.61	24.46	26.61	34.77	-8.16
				1	5	23.67	24.52	26.67	34.77	-8.1
				3	2	23.73	24.58	26.73	34.77	-8.04
				6	0	23.20	24.05	26.20	34.77	-8.57
	23173	715.5	QPSK	1	0	23.63	24.48	26.63	34.77	-8.14
				1	5	23.59	24.44	26.59	34.77	-8.18
				3	2	23.64	24.49	26.64	34.77	-8.13
				6	0	23.64	24.49	26.64	34.77	-8.13
	23017	699.7	16QAM	1	0	22.92	23.77	25.92	34.77	-8.85
				1	5	22.68	23.53	25.68	34.77	-9.09
				3	2	22.63	23.48	25.63	34.77	-9.14
				6	0	21.77	22.62	24.77	34.77	-10
	23095	707.5	16QAM	1	0	23.54	24.39	26.54	34.77	-8.23
				1	5	23.55	24.40	26.55	34.77	-8.22
				3	2	23.17	24.02	26.17	34.77	-8.6
				6	0	22.16	23.01	25.16	34.77	-9.61
	23173	715.5	16QAM	1	0	23.71	24.56	26.71	34.77	-8.06
				1	5	22.66	23.51	25.66	34.77	-9.11
				3	2	23.24	24.09	26.24	34.77	-8.53
				6	0	22.39	23.24	25.39	34.77	-9.38
	23017	699.7	64QAM	1	0	20.88	21.73	23.88	34.77	-10.89
				1	5	20.96	21.81	23.96	34.77	-10.81
				3	2	20.82	21.67	23.82	34.77	-10.95
				6	0	19.64	20.49	22.64	34.77	-12.13
	23095	707.5	64QAM	1	0	21.31	22.16	24.31	34.77	-10.46
				1	5	21.39	22.24	24.39	34.77	-10.38
				3	2	21.27	22.12	24.27	34.77	-10.5
				6	0	20.18	21.03	23.18	34.77	-11.59
	23173	715.5	64QAM	1	0	21.70	22.55	24.70	34.77	-10.07
				1	5	21.65	22.50	24.65	34.77	-10.12
				3	2	21.73	22.58	24.73	34.77	-10.04
				6	0	20.36	21.21	23.36	34.77	-11.41
	23017	699.7	256QAM	1	0	17.42	18.27	20.42	34.77	-14.35
				1	5	17.48	18.33	20.48	34.77	-14.29
				3	2	17.24	18.09	20.24	34.77	-14.53
				6	0	17.15	18.00	20.15	34.77	-14.62
	23095	707.5	256QAM	1	0	18.02	18.87	21.02	34.77	-13.75
				1	5	17.93	18.78	20.93	34.77	-13.84
				3	2	17.89	18.74	20.89	34.77	-13.88
				6	0	17.71	18.56	20.71	34.77	-14.06
	23173	715.5	256QAM	1	0	19.19	20.04	22.19	34.77	-12.58
				1	5	19.04	19.89	22.04	34.77	-12.73
				3	2	18.87	19.72	21.87	34.77	-12.9
				6	0	18.76	19.61	21.76	34.77	-13.01

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi)

3

LTE Band 12 Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	22.96	23.81	25.96	34.77	-8.81
				1	14	22.91	23.76	25.91	34.77	-8.86
				8	4	23.19	24.04	26.19	34.77	-8.58
				15	0	23.06	23.91	26.06	34.77	-8.71
	23095	707.5	QPSK	1	0	23.19	24.04	26.19	34.77	-8.58
				1	14	22.94	23.79	25.94	34.77	-8.83
				8	4	23.44	24.29	26.44	34.77	-8.33
				15	0	23.45	24.30	26.45	34.77	-8.32
	23165	714.5	QPSK	1	0	22.88	23.73	25.88	34.77	-8.89
				1	14	23.07	23.92	26.07	34.77	-8.7
				8	4	24.03	24.88	27.03	34.77	-7.74
				15	0	23.96	24.81	26.96	34.77	-7.81
	23025	700.5	16QAM	1	0	23.10	23.95	26.10	34.77	-8.67
				1	14	23.09	23.94	26.09	34.77	-8.68
				8	4	22.18	23.03	25.18	34.77	-9.59
				15	0	21.88	22.73	24.88	34.77	-9.89
	23095	707.5	16QAM	1	0	22.90	23.75	25.90	34.77	-8.87
				1	14	23.17	24.02	26.17	34.77	-8.6
				8	4	22.63	23.48	25.63	34.77	-9.14
				15	0	22.38	23.23	25.38	34.77	-9.39
	23165	714.5	16QAM	1	0	23.00	23.85	26.00	34.77	-8.77
				1	14	23.04	23.89	26.04	34.77	-8.73
				8	4	22.83	23.68	25.83	34.77	-8.94
				15	0	22.65	23.50	25.65	34.77	-9.12
	23025	700.5	64QAM	1	0	20.92	21.77	23.92	34.77	-10.85
				1	14	21.06	21.91	24.06	34.77	-10.71
				8	4	19.99	20.84	22.99	34.77	-11.78
				15	0	19.89	20.74	22.89	34.77	-11.88
	23095	707.5	64QAM	1	0	21.22	22.07	24.22	34.77	-10.55
				1	14	21.77	22.62	24.77	34.77	-10
				8	4	20.48	21.33	23.48	34.77	-11.29
				15	0	20.21	21.06	23.21	34.77	-11.56
	23165	714.5	64QAM	1	0	22.03	22.88	25.03	34.77	-9.74
				1	14	21.82	22.67	24.82	34.77	-9.95
				8	4	20.76	21.61	23.76	34.77	-11.01
				15	0	20.71	21.56	23.71	34.77	-11.06
	23025	700.5	256QAM	1	0	17.57	18.42	20.57	34.77	-14.2
				1	14	17.65	18.50	20.65	34.77	-14.12
				8	4	17.29	18.14	20.29	34.77	-14.48
				15	0	17.23	18.08	20.23	34.77	-14.54
	23095	707.5	256QAM	1	0	18.18	19.03	21.18	34.77	-13.59
				1	14	18.34	19.19	21.34	34.77	-13.43
				8	4	17.90	18.75	20.90	34.77	-13.87
				15	0	17.84	18.69	20.84	34.77	-13.93
	23165	714.5	256QAM	1	0	18.82	19.67	21.82	34.77	-12.95
				1	14	19.32	20.17	22.32	34.77	-12.45
				8	4	18.85	19.70	21.85	34.77	-12.92
				15	0	18.73	19.58	21.73	34.77	-13.04

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi)

3

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	23.73	24.58	26.73	34.77	-8.04
				1	24	23.08	23.93	26.08	34.77	-8.69
				12	6	23.23	24.08	26.23	34.77	-8.54
				25	0	23.05	23.90	26.05	34.77	-8.72
	23095	707.5	QPSK	1	0	23.99	24.84	26.99	34.77	-7.78
				1	24	23.09	23.94	26.09	34.77	-8.68
				12	6	23.53	24.38	26.53	34.77	-8.24
				25	0	23.37	24.22	26.37	34.77	-8.4
	23155	713.5	QPSK	1	0	22.86	23.71	25.86	34.77	-8.91
				1	24	22.81	23.66	25.81	34.77	-8.96
				12	6	23.93	24.78	26.93	34.77	-7.84
				25	0	23.86	24.71	26.86	34.77	-7.91
	23035	701.5	16QAM	1	0	23.05	23.90	26.05	34.77	-8.72
				1	24	23.14	23.99	26.14	34.77	-8.63
				12	6	22.19	23.04	25.19	34.77	-9.58
				25	0	21.97	22.82	24.97	34.77	-9.8
	23095	707.5	16QAM	1	0	23.15	24.00	26.15	34.77	-8.62
				1	24	23.57	24.42	26.57	34.77	-8.2
				12	6	22.26	23.11	25.26	34.77	-9.51
				25	0	22.24	23.09	25.24	34.77	-9.53
	23155	713.5	16QAM	1	0	23.11	23.96	26.11	34.77	-8.66
				1	24	23.89	24.74	26.89	34.77	-7.88
				12	6	22.88	23.73	25.88	34.77	-8.89
				25	0	22.76	23.61	25.76	34.77	-9.01
	23035	701.5	64QAM	1	0	21.03	21.88	24.03	34.77	-10.74
				1	24	21.25	22.10	24.25	34.77	-10.52
				12	6	20.12	20.97	23.12	34.77	-11.65
				25	0	19.86	20.71	22.86	34.77	-11.91
	23095	707.5	64QAM	1	0	21.21	22.06	24.21	34.77	-10.56
				1	24	21.62	22.47	24.62	34.77	-10.15
				12	6	20.47	21.32	23.47	34.77	-11.3
				25	0	20.04	20.89	23.04	34.77	-11.73
	23155	713.5	64QAM	1	0	21.98	22.83	24.98	34.77	-9.79
				1	24	21.99	22.84	24.99	34.77	-9.78
				12	6	20.81	21.66	23.81	34.77	-10.96
				25	0	20.56	21.41	23.56	34.77	-11.21
	23035	701.5	256QAM	1	0	17.62	18.47	20.62	34.77	-14.15
				1	24	17.84	18.69	20.84	34.77	-13.93
				12	6	17.34	18.19	20.34	34.77	-14.43
				25	0	17.26	18.11	20.26	34.77	-14.51
	23095	707.5	256QAM	1	0	18.12	18.97	21.12	34.77	-13.65
				1	24	18.8	#VALUE!	#VALUE!	34.77	#VALUE!
				12	6	17.88	18.73	20.88	34.77	-13.89
				25	0	17.91	18.76	20.91	34.77	-13.86
	23155	713.5	256QAM	1	0	17.48	18.33	20.48	34.77	-14.29
				1	24	17.42	18.27	20.42	34.77	-14.35
				12	6	17.33	18.18	20.33	34.77	-14.44
				25	0	17.32	18.17	20.32	34.77	-14.45

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi)

3

LTE Band 12 Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	23.72	24.57	26.72	34.77	-8.05
				1	49	23.92	24.77	26.92	34.77	-7.85
				25	12	23.34	24.19	26.34	34.77	-8.43
				50	0	23.33	24.18	26.33	34.77	-8.44
	23095	707.5	QPSK	1	0	23.75	24.60	26.75	34.77	-8.02
				1	49	23.79	24.64	26.79	34.77	-7.98
				25	12	23.24	24.09	26.24	34.77	-8.53
				50	0	23.15	24.00	26.15	34.77	-8.62
	23130	711	QPSK	1	0	23.75	24.60	26.75	34.77	-8.02
				1	49	23.76	24.61	26.76	34.77	-8.01
				25	12	23.92	24.77	26.92	34.77	-7.85
				50	0	23.95	24.80	26.95	34.77	-7.82
	23060	704	16QAM	1	0	23.50	24.35	26.50	34.77	-8.27
				1	49	23.99	24.84	26.99	34.77	-7.78
				25	12	22.04	22.89	25.04	34.77	-9.73
				50	0	22.15	23.00	25.15	34.77	-9.62
	23095	707.5	16QAM	1	0	23.84	24.69	26.84	34.77	-7.93
				1	49	23.95	24.80	26.95	34.77	-7.82
				25	12	22.24	23.09	25.24	34.77	-9.53
				50	0	22.43	23.28	25.43	34.77	-9.34
	23130	711	16QAM	1	0	23.86	24.71	26.86	34.77	-7.91
				1	49	24.42	25.27	27.42	34.77	-7.35
				25	12	22.67	23.52	25.67	34.77	-9.1
				50	0	22.56	23.41	25.56	34.77	-9.21
	23060	704	64QAM	1	0	21.34	22.19	24.34	34.77	-10.43
				1	49	21.78	22.63	24.78	34.77	-9.99
				25	12	19.95	20.80	22.95	34.77	-11.82
				50	0	19.90	20.75	22.90	34.77	-11.87
	23095	707.5	64QAM	1	0	21.61	22.46	24.61	34.77	-10.16
				1	49	21.75	22.60	24.75	34.77	-10.02
				25	12	20.18	21.03	23.18	34.77	-11.59
				50	0	20.10	20.95	23.10	34.77	-11.67
	23130	711	64QAM	1	0	21.52	22.37	24.52	34.77	-10.25
				1	49	21.89	22.74	24.89	34.77	-9.88
				25	12	20.58	21.43	23.58	34.77	-11.19
				50	0	20.44	21.29	23.44	34.77	-11.33
	23060	704	256QAM	1	0	17.58	18.43	20.58	34.77	-14.19
				1	49	18.22	19.07	21.22	34.77	-13.55
				25	12	17.63	18.48	20.63	34.77	-14.14
				50	0	17.64	18.49	20.64	34.77	-14.13
	23095	707.5	256QAM	1	0	17.64	18.49	20.64	34.77	-14.13
				1	49	18.25	19.10	21.25	34.77	-13.52
				25	12	17.93	18.78	20.93	34.77	-13.84
				50	0	17.97	18.82	20.97	34.77	-13.8
	23130	711	256QAM	1	0	17.83	18.68	20.83	34.77	-13.94
				1	49	19.01	19.86	22.01	34.77	-12.76
				25	12	18.33	19.18	21.33	34.77	-13.44
				50	0	18.28	19.13	21.28	34.77	-13.49

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi)

3

LTE Band 13 Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	22.84	23.69	25.84	34.77	-8.93
				1	24	23.15	24.00	26.15	34.77	-8.62
				12	6	22.64	23.49	25.64	34.77	-9.13
				25	0	23.05	23.90	26.05	34.77	-8.72
	23230	782	QPSK	1	0	22.67	23.52	25.67	34.77	-9.1
				1	24	23.12	23.97	26.12	34.77	-8.65
				12	6	21.64	22.49	24.64	34.77	-10.13
				25	0	21.93	22.78	24.93	34.77	-9.84
	23255	784.5	QPSK	1	0	23.17	24.02	26.17	34.77	-8.6
				1	24	23.13	23.98	26.13	34.77	-8.64
				12	6	23.05	23.90	26.05	34.77	-8.72
				25	0	23.12	23.97	26.12	34.77	-8.65
	23205	779.5	16QAM	1	0	22.88	23.73	25.88	34.77	-8.89
				1	24	22.84	23.69	25.84	34.77	-8.93
				12	6	21.54	22.39	24.54	34.77	-10.23
				25	0	21.50	22.35	24.50	34.77	-10.27
	23230	782	16QAM	1	0	22.36	23.21	25.36	34.77	-9.41
				1	24	22.43	23.28	25.43	34.77	-9.34
				12	6	20.92	21.77	23.92	34.77	-10.85
				25	0	21.12	21.97	24.12	34.77	-10.65
	23255	784.5	16QAM	1	0	22.89	23.74	25.89	34.77	-8.88
				1	24	22.66	23.51	25.66	34.77	-9.11
				12	6	21.90	22.75	24.90	34.77	-9.87
				25	0	22.06	22.91	25.06	34.77	-9.71
	23205	779.5	64QAM	1	0	19.54	20.39	22.54	34.77	-12.23
				1	24	20.14	20.99	23.14	34.77	-11.63
				12	6	19.36	20.21	22.36	34.77	-12.41
				25	0	19.22	20.07	22.22	34.77	-12.55
	23230	782	64QAM	1	0	19.49	20.34	22.49	34.77	-12.28
				1	24	20.12	20.97	23.12	34.77	-11.65
				12	6	18.89	19.74	21.89	34.77	-12.88
				25	0	18.99	19.84	21.99	34.77	-12.78
	23255	784.5	64QAM	1	0	20.76	21.61	23.76	34.77	-11.01
				1	24	21.65	22.50	24.65	34.77	-10.12
				12	6	20.22	21.07	23.22	34.77	-11.55
				25	0	20.12	20.97	23.12	34.77	-11.65
	23205	779.5	256QAM	1	0	19.48	20.33	22.48	34.77	-12.29
				1	24	19.51	20.36	22.51	34.77	-12.26
				12	6	19.24	20.09	22.24	34.77	-12.53
				25	0	19.22	20.07	22.22	34.77	-12.55
	23230	782	256QAM	1	0	19.45	20.30	22.45	34.77	-12.32
				1	24	19.53	20.38	22.53	34.77	-12.24
				12	6	19.17	20.02	22.17	34.77	-12.6
				25	0	19.21	20.06	22.21	34.77	-12.56
	23255	784.5	256QAM	1	0	19.75	20.60	22.75	34.77	-12.02
				1	24	19.81	20.66	22.81	34.77	-11.96
				12	6	19.55	20.40	22.55	34.77	-12.22
				25	0	19.41	20.26	22.41	34.77	-12.36

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 3

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	22.83	23.68	25.83	34.77	-8.94
				1	49	22.41	23.26	25.41	34.77	-9.36
				25	12	22.65	23.50	25.65	34.77	-9.12
				50	0	22.63	23.48	25.63	34.77	-9.14
	23230	782	16QAM	1	0	23.03	23.88	26.03	34.77	-8.74
				1	49	22.67	23.52	25.67	34.77	-9.1
				25	12	21.59	22.44	24.59	34.77	-10.18
				50	0	21.91	22.76	24.91	34.77	-9.86
	23230	782	64QAM	1	0	19.76	20.61	22.76	34.77	-12.01
				1	49	20.76	21.61	23.76	34.77	-11.01
				25	12	19.66	20.51	22.66	34.77	-12.11
				50	0	19.59	20.44	22.59	34.77	-12.18
	23230	782	256QAM	1	0	19.52	20.37	22.52	34.77	-12.25
				1	49	19.61	20.46	22.61	34.77	-12.16
				25	12	19.44	20.29	22.44	34.77	-12.33
				50	0	19.37	20.22	22.37	34.77	-12.4

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi)

3

LTE Band 14 Uplink frequency band : 788 to 798 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23305	790.5	QPSK	1	0	22.63	23.48	25.63	34.77	-9.14
				1	24	22.61	23.46	25.61	34.77	-9.16
				12	6	21.62	22.47	24.62	34.77	-10.15
				25	0	21.50	22.35	24.50	34.77	-10.27
	23330	793	QPSK	1	0	22.42	23.27	25.42	34.77	-9.35
				1	24	22.68	23.53	25.68	34.77	-9.09
				12	6	21.72	22.57	24.72	34.77	-10.05
				25	0	21.72	22.57	24.72	34.77	-10.05
	23355	795.5	QPSK	1	0	22.61	23.46	25.61	34.77	-9.16
				1	24	22.56	23.41	25.56	34.77	-9.21
				12	6	22.07	22.92	25.07	34.77	-9.7
				25	0	22.03	22.88	25.03	34.77	-9.74
	23305	790.5	16QAM	1	0	21.59	22.44	24.59	34.77	-10.18
				1	24	21.59	22.44	24.59	34.77	-10.18
				12	6	20.62	21.47	23.62	34.77	-11.15
				25	0	20.50	21.35	23.50	34.77	-11.27
	23330	793	16QAM	1	0	21.80	22.65	24.80	34.77	-9.97
				1	24	21.74	22.59	24.74	34.77	-10.03
				12	6	20.85	21.70	23.85	34.77	-10.92
				25	0	20.62	21.47	23.62	34.77	-11.15
	23355	795.5	16QAM	1	0	21.88	22.73	24.88	34.77	-9.89
				1	24	21.94	22.79	24.94	34.77	-9.83
				12	6	21.12	21.97	24.12	34.77	-10.65
				25	0	20.93	21.78	23.93	34.77	-10.84
	23305	790.5	64QAM	1	0	19.57	20.42	22.57	34.77	-12.2
				1	24	19.48	20.33	22.48	34.77	-12.29
				12	6	18.54	19.39	21.54	34.77	-13.23
				25	0	18.40	19.25	21.40	34.77	-13.37
	23330	793	64QAM	1	0	19.83	20.68	22.83	34.77	-11.94
				1	24	19.97	20.82	22.97	34.77	-11.8
				12	6	18.75	19.60	21.75	34.77	-13.02
				25	0	18.58	19.43	21.58	34.77	-13.19
	23355	795.5	64QAM	1	0	19.80	20.65	22.80	34.77	-11.97
				1	24	20.06	20.91	23.06	34.77	-11.71
				12	6	19.05	19.90	22.05	34.77	-12.72
				25	0	18.91	19.76	21.91	34.77	-12.86
	23305	790.5	256QAM	1	0	19.57	19.88	22.57	34.77	-12.2
				1	24	19.48	19.72	22.48	34.77	-12.29
				12	6	18.54	19.53	21.54	34.77	-13.23
				25	0	18.40	19.41	21.40	34.77	-13.37
	23330	793	256QAM	1	0	19.83	19.85	22.83	34.77	-11.94
				1	24	19.97	19.69	22.97	34.77	-11.8
				12	6	18.75	19.60	21.75	34.77	-13.02
				25	0	18.58	19.56	21.58	34.77	-13.19
	23355	795.5	256QAM	1	0	19.80	19.95	22.80	34.77	-11.97
				1	24	20.06	19.82	23.06	34.77	-11.71
				12	6	19.05	19.69	22.05	34.77	-12.72
				25	0	18.91	19.62	21.91	34.77	-12.86

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 3

LTE Band 14_ Uplink frequency band : 788 to 798 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23330	793	QPSK	1	0	22.47	23.32	25.47	34.77	-9.3
				1	49	22.64	23.49	25.64	34.77	-9.13
				25	12	21.78	22.63	24.78	34.77	-9.99
				50	0	21.90	22.75	24.90	34.77	-9.87
	23330	793	16QAM	1	0	21.80	22.65	24.80	34.77	-9.97
				1	49	22.06	22.91	25.06	34.77	-9.71
				25	12	20.72	21.57	23.72	34.77	-11.05
				50	0	20.68	21.53	23.68	34.77	-11.09
	23330	793	64QAM	1	0	20.09	20.94	23.09	34.77	-11.68
				1	49	20.32	21.17	23.32	34.77	-11.45
				25	12	18.61	19.46	21.61	34.77	-13.16
				50	0	18.53	19.38	21.53	34.77	-13.24
	23330	793	256QAM	1	0	19.78	20.63	22.78	34.77	-11.99
				1	49	19.93	20.78	22.93	34.77	-11.84
				25	12	19.61	20.46	22.61	34.77	-12.16
				50	0	19.47	20.32	22.47	34.77	-12.3

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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi)

4

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26047	1850.7	QPSK	1	0	23.94	27.94	33	-5.06
				1	5	23.92	27.92	33	-5.08
				3	2	24.02	28.02	33	-4.98
				6	0	23.99	27.99	33	-5.01
	26365	1882.5	QPSK	1	0	24.38	28.38	33	-4.62
				1	5	24.36	28.36	33	-4.64
				3	2	24.15	28.15	33	-4.85
				6	0	23.86	27.86	33	-5.14
	26683	1914.3	QPSK	1	0	24.53	28.53	33	-4.47
				1	5	24.45	28.45	33	-4.55
				3	2	24.61	28.61	33	-4.39
				6	0	24.37	28.37	33	-4.63
	26047	1850.7	16QAM	1	0	23.82	27.82	33	-5.18
				1	5	23.63	27.63	33	-5.37
				3	2	24.08	28.08	33	-4.92
				6	0	23.75	27.75	33	-5.25
	26365	1882.5	16QAM	1	0	24.15	28.15	33	-4.85
				1	5	24.11	28.11	33	-4.89
				3	2	24.06	28.06	33	-4.94
				6	0	23.89	27.89	33	-5.11
	26683	1914.3	16QAM	1	0	23.89	27.89	33	-5.11
				1	5	23.83	27.83	33	-5.17
				3	2	24.02	28.02	33	-4.98
				6	0	23.91	27.91	33	-5.09
	26047	1850.7	64QAM	1	0	24.32	28.32	33	-4.68
				1	5	24.22	28.22	33	-4.78
				3	2	24.32	28.32	33	-4.68
				6	0	24.09	28.09	33	-4.91
	26365	1882.5	64QAM	1	0	24.08	28.08	33	-4.92
				1	5	23.97	27.97	33	-5.03
				3	2	24.02	28.02	33	-4.98
				6	0	23.87	27.87	33	-5.13
	26683	1914.3	64QAM	1	0	23.50	27.50	33	-5.5
				1	5	23.38	27.38	33	-5.62
				3	2	24.15	28.15	33	-4.85
				6	0	24.01	28.01	33	-4.99
	26047	1850.7	256QAM	1	0	19.12	23.12	33	-9.88
				1	5	19.22	23.22	33	-9.78
				3	2	18.98	22.98	33	-10.02
				6	0	18.74	22.74	33	-10.26
	26365	1882.5	256QAM	1	0	19.19	23.19	33	-9.81
				1	5	19.25	23.25	33	-9.75
				3	2	18.97	22.97	33	-10.03
				6	0	18.79	22.79	33	-10.21
	26683	1914.3	256QAM	1	0	19.25	23.25	33	-9.75
				1	5	19.24	23.24	33	-9.76
				3	2	18.87	22.87	33	-10.13
				6	0	18.75	22.75	33	-10.25

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4

LTE Band 25 Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26055	1851.5	QPSK	1	0	23.46	27.46	33	-5.54
				1	14	23.40	27.40	33	-5.6
				8	4	22.67	26.67	33	-6.33
				15	0	22.55	26.55	33	-6.45
	26365	1882.5	QPSK	1	0	23.40	27.40	33	-5.6
				1	14	23.42	27.42	33	-5.58
				8	4	22.67	26.67	33	-6.33
				15	0	22.55	26.55	33	-6.45
	26675	1913.5	QPSK	1	0	21.71	25.71	33	-7.29
				1	14	20.52	24.52	33	-8.48
				8	4	20.31	24.31	33	-8.69
				15	0	20.32	24.32	33	-8.68
	26055	1851.5	16QAM	1	0	22.55	26.55	33	-6.45
				1	14	22.77	26.77	33	-6.23
				8	4	21.88	25.88	33	-7.12
				15	0	21.77	25.77	33	-7.23
	26365	1882.5	16QAM	1	0	22.59	26.59	33	-6.41
				1	14	22.71	26.71	33	-6.29
				8	4	21.73	25.73	33	-7.27
				15	0	21.70	25.70	33	-7.3
	26675	1913.5	16QAM	1	0	20.80	24.80	33	-8.2
				1	14	19.70	23.70	33	-9.3
				8	4	19.42	23.42	33	-9.58
				15	0	19.43	23.43	33	-9.57
	26055	1851.5	64QAM	1	0	22.71	26.71	33	-6.29
				1	14	22.80	26.80	33	-6.2
				8	4	21.78	25.78	33	-7.22
				15	0	21.65	25.65	33	-7.35
	26365	1882.5	64QAM	1	0	22.76	26.76	33	-6.24
				1	14	22.85	26.85	33	-6.15
				8	4	21.80	25.80	33	-7.2
				15	0	21.69	25.69	33	-7.31
	26675	1913.5	64QAM	1	0	20.86	24.86	33	-8.14
				1	14	19.73	23.73	33	-9.27
				8	4	19.46	23.46	33	-9.54
				15	0	19.49	23.49	33	-9.51
	26055	1851.5	256QAM	1	0	19.18	23.18	33	-9.82
				1	14	19.08	23.08	33	-9.92
				8	4	18.85	22.85	33	-10.15
				15	0	18.77	22.77	33	-10.23
	26365	1882.5	256QAM	1	0	19.27	23.27	33	-9.73
				1	14	19.05	23.05	33	-9.95
				8	4	18.97	22.97	33	-10.03
				15	0	18.92	22.92	33	-10.08
	26675	1913.5	256QAM	1	0	19.34	23.34	33	-9.66
				1	14	19.16	23.16	33	-9.84
				8	4	18.92	22.92	33	-10.08
				15	0	18.88	22.88	33	-10.12

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4

LTE Band 25 Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26065	1852.5	QPSK	1	0	23.21	27.21	33	-5.79
				1	24	22.97	26.97	33	-6.03
				12	6	22.66	26.66	33	-6.34
				25	0	22.60	26.60	33	-6.4
	26365	1882.5	QPSK	1	0	23.46	27.46	33	-5.54
				1	24	23.52	27.52	33	-5.48
				12	6	22.62	26.62	33	-6.38
				25	0	22.56	26.56	33	-6.44
	26665	1912.5	QPSK	1	0	22.24	26.24	33	-6.76
				1	24	20.32	24.32	33	-8.68
				12	6	20.69	24.69	33	-8.31
				25	0	20.47	24.47	33	-8.53
	26065	1852.5	16QAM	1	0	22.65	26.65	33	-6.35
				1	24	23.05	27.05	33	-5.95
				12	6	21.87	25.87	33	-7.13
				25	0	21.73	25.73	33	-7.27
	26365	1882.5	16QAM	1	0	22.77	26.77	33	-6.23
				1	24	22.80	26.80	33	-6.2
				12	6	21.71	25.71	33	-7.29
				25	0	21.64	25.64	33	-7.36
	26665	1912.5	16QAM	1	0	21.74	25.74	33	-7.26
				1	24	20.03	24.03	33	-8.97
				12	6	20.04	24.04	33	-8.96
				25	0	19.82	23.82	33	-9.18
	26065	1852.5	64QAM	1	0	22.63	26.63	33	-6.37
				1	24	23.02	27.02	33	-5.98
				12	6	21.90	25.90	33	-7.1
				25	0	21.68	25.68	33	-7.32
	26365	1882.5	64QAM	1	0	22.63	26.63	33	-6.37
				1	24	22.80	26.80	33	-6.2
				12	6	21.78	25.78	33	-7.22
				25	0	21.63	25.63	33	-7.37
	26665	1912.5	64QAM	1	0	21.89	25.89	33	-7.11
				1	24	19.95	23.95	33	-9.05
				12	6	20.04	24.04	33	-8.96
				25	0	19.91	23.91	33	-9.09
	26065	1852.5	256QAM	1	0	19.22	23.22	33	-9.78
				1	24	19.07	23.07	33	-9.93
				12	6	18.81	22.81	33	-10.19
				25	0	18.64	22.64	33	-10.36
	26365	1882.5	256QAM	1	0	19.13	23.13	33	-9.87
				1	24	19.06	23.06	33	-9.94
				12	6	18.85	22.85	33	-10.15
				25	0	18.77	22.77	33	-10.23
	26665	1912.5	256QAM	1	0	19.22	23.22	33	-9.78
				1	24	19.04	23.04	33	-9.96
				12	6	18.75	22.75	33	-10.25
				25	0	16.69	20.69	33	-12.31

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4

LTE Band 25 Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26090	1855	QPSK	1	0	23.18	27.18	33	-5.82
				1	49	23.51	27.51	33	-5.49
				25	12	22.97	26.97	33	-6.03
				50	0	22.88	26.88	33	-6.12
	26365	1882.5	QPSK	1	0	23.22	27.22	33	-5.78
				1	49	23.38	27.38	33	-5.62
				25	12	22.67	26.67	33	-6.33
				50	0	22.58	26.58	33	-6.42
	26640	1910	QPSK	1	0	23.30	27.30	33	-5.7
				1	49	20.64	24.64	33	-8.36
				25	12	21.65	25.65	33	-7.35
				50	0	21.44	25.44	33	-7.56
	26090	1855	16QAM	1	0	22.31	26.31	33	-6.69
				1	49	23.18	27.18	33	-5.82
				25	12	21.97	25.97	33	-7.03
				50	0	21.84	25.84	33	-7.16
	26365	1882.5	16QAM	1	0	22.50	26.50	33	-6.5
				1	49	22.63	26.63	33	-6.37
				25	12	21.67	25.67	33	-7.33
				50	0	21.57	25.57	33	-7.43
	26640	1910	16QAM	1	0	22.67	26.67	33	-6.33
				1	49	20.14	24.14	33	-8.86
				25	12	20.85	24.85	33	-8.15
				50	0	20.44	24.44	33	-8.56
	26090	1855	64QAM	1	0	22.15	26.15	33	-6.85
				1	49	23.07	27.07	33	-5.93
				25	12	21.94	25.94	33	-7.06
				50	0	21.80	25.80	33	-7.2
	26365	1882.5	64QAM	1	0	22.19	26.19	33	-6.81
				1	49	22.37	26.37	33	-6.63
				25	12	21.77	25.77	33	-7.23
				50	0	21.58	25.58	33	-7.42
	26640	1910	64QAM	1	0	22.63	26.63	33	-6.37
				1	49	20.08	24.08	33	-8.92
				25	12	20.91	24.91	33	-8.09
				50	0	20.48	24.48	33	-8.52
	26090	1855	256QAM	1	0	18.59	22.59	33	-10.41
				1	49	18.77	22.77	33	-10.23
				25	12	18.66	22.66	33	-10.34
				50	0	18.57	22.57	33	-10.43
	26365	1882.5	256QAM	1	0	18.61	22.61	33	-10.39
				1	49	18.86	22.86	33	-10.14
				25	12	18.78	22.78	33	-10.22
				50	0	18.65	22.65	33	-10.35
	26640	1910	256QAM	1	0	18.63	22.63	33	-10.37
				1	49	18.97	22.97	33	-10.03
				25	12	18.77	22.77	33	-10.23
				50	0	18.72	22.72	33	-10.28

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>. 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 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.

Antenna gain (dBi)

4

LTE Band 25 Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26115	1857.5	QPSK	1	0	23.41	27.41	33	-5.59
				1	74	23.62	27.62	33	-5.38
				36	18	22.99	26.99	33	-6.01
				75	0	22.85	26.85	33	-6.15
	26365	1882.5	QPSK	1	0	23.44	27.44	33	-5.56
				1	74	23.46	27.46	33	-5.54
				36	18	22.63	26.63	33	-6.37
				75	0	22.54	26.54	33	-6.46
	26615	1907.5	QPSK	1	0	22.75	26.75	33	-6.25
				1	74	20.75	24.75	33	-8.25
				36	18	22.18	26.18	33	-6.82
				75	0	21.98	25.98	33	-7.02
	26115	1857.5	16QAM	1	0	22.28	26.28	33	-6.72
				1	74	22.94	26.94	33	-6.06
				36	18	22.10	26.10	33	-6.9
				75	0	21.81	25.81	33	-7.19
	26365	1882.5	16QAM	1	0	22.83	26.83	33	-6.17
				1	74	22.97	26.97	33	-6.03
				36	18	21.71	25.71	33	-7.29
				75	0	21.58	25.58	33	-7.42
	26615	1907.5	16QAM	1	0	22.50	26.50	33	-6.5
				1	74	20.25	24.25	33	-8.75
				36	18	21.30	25.30	33	-7.7
				75	0	20.49	24.49	33	-8.51
	26115	1857.5	64QAM	1	0	22.25	26.25	33	-6.75
				1	74	22.84	26.84	33	-6.16
				36	18	22.08	26.08	33	-6.92
				75	0	21.82	25.82	33	-7.18
	26365	1882.5	64QAM	1	0	22.81	26.81	33	-6.19
				1	74	22.85	26.85	33	-6.15
				36	18	21.77	25.77	33	-7.23
				75	0	21.62	25.62	33	-7.38
	26615	1907.5	64QAM	1	0	21.84	25.84	33	-7.16
				1	74	19.95	23.95	33	-9.05
				36	18	21.32	25.32	33	-7.68
				75	0	20.54	24.54	33	-8.46
	26115	1857.5	256QAM	1	0	19.18	23.18	33	-9.82
				1	74	19.10	23.10	33	-9.9
				36	18	18.85	22.85	33	-10.15
				75	0	18.77	22.77	33	-10.23
	26365	1882.5	256QAM	1	0	19.20	23.20	33	-9.8
				1	74	19.07	23.07	33	-9.93
				36	18	18.94	22.94	33	-10.06
				75	0	18.86	22.86	33	-10.14
	26615	1907.5	256QAM	1	0	19.40	23.40	33	-9.6
				1	74	19.24	23.24	33	-9.76
				36	18	19.07	23.07	33	-9.93
				75	0	18.97	22.97	33	-10.03

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4

LTE Band 25 Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	26140	1860	QPSK	1	0	23.62	27.62	33	-5.38
				1	99	23.55	27.55	33	-5.45
				50	25	23.04	27.04	33	-5.96
				100	0	23.02	27.02	33	-5.98
	26365	1882.5	QPSK	1	0	23.56	27.56	33	-5.44
				1	99	23.53	27.53	33	-5.47
				50	25	22.72	26.72	33	-6.28
				100	0	22.55	26.55	33	-6.45
	26590	1905	QPSK	1	0	23.02	27.02	33	-5.98
				1	99	20.96	24.96	33	-8.04
				50	25	22.43	26.43	33	-6.57
				100	0	21.93	25.93	33	-7.07
	26140	1860	16QAM	1	0	22.88	26.88	33	-6.12
				1	99	22.78	26.78	33	-6.22
				50	25	22.12	26.12	33	-6.88
				100	0	21.77	25.77	33	-7.23
	26365	1882.5	16QAM	1	0	22.71	26.71	33	-6.29
				1	99	22.75	26.75	33	-6.25
				50	25	21.79	25.79	33	-7.21
				100	0	21.60	25.60	33	-7.4
	26590	1905	16QAM	1	0	22.83	26.83	33	-6.17
				1	99	20.59	24.59	33	-8.41
				50	25	21.44	25.44	33	-7.56
				100	0	20.84	24.84	33	-8.16
	26140	1860	64QAM	1	0	22.70	26.70	33	-6.3
				1	99	22.49	26.49	33	-6.51
				50	25	22.09	26.09	33	-6.91
				100	0	21.72	25.72	33	-7.28
	26365	1882.5	64QAM	1	0	22.74	26.74	33	-6.26
				1	99	22.68	26.68	33	-6.32
				50	25	21.76	25.76	33	-7.24
				100	0	21.58	25.58	33	-7.42
	26590	1905	64QAM	1	0	22.60	26.60	33	-6.4
				1	99	20.59	24.59	33	-8.41
				50	25	21.46	25.46	33	-7.54
				100	0	20.88	24.88	33	-8.12
	26140	1860	256QAM	1	0	19.11	23.11	33	-9.89
				1	99	19.04	23.04	33	-9.96
				50	25	18.79	22.79	33	-10.21
				100	0	18.72	22.72	33	-10.28
	26365	1882.5	256QAM	1	0	19.12	23.12	33	-9.88
				1	99	19.16	23.16	33	-9.84
				50	25	18.89	22.89	33	-10.11
				100	0	18.92	22.92	33	-10.08
	26590	1905	256QAM	1	0	19.51	23.51	33	-9.49
				1	99	19.40	23.40	33	-9.6
				50	25	19.13	23.13	33	-9.87
				100	0	19.08	23.08	33	-9.92

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 2.9

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26797	824.7	QPSK	1	0	22.61	23.36	25.51	38.45	-12.94
				1	5	22.93	23.68	25.83	38.45	-12.62
				3	2	23.07	23.82	25.97	38.45	-12.48
				6	0	23.08	23.83	25.98	38.45	-12.47
	26915	836.5	QPSK	1	0	22.81	23.56	25.71	38.45	-12.74
				1	5	22.87	23.62	25.77	38.45	-12.68
				3	2	23.19	23.94	26.09	38.45	-12.36
				6	0	23.22	23.97	26.12	38.45	-12.33
	27033	848.3	QPSK	1	0	22.12	22.87	25.02	38.45	-13.43
				1	5	21.96	22.71	24.86	38.45	-13.59
				3	2	23.13	23.88	26.03	38.45	-12.42
				6	0	22.64	23.39	25.54	38.45	-12.91
	26797	824.7	16QAM	1	0	23.16	23.91	26.06	38.45	-12.39
				1	5	23.41	24.16	26.31	38.45	-12.14
				3	2	22.92	23.67	25.82	38.45	-12.63
				6	0	22.19	22.94	25.09	38.45	-13.36
	26915	836.5	16QAM	1	0	23.20	23.95	26.10	38.45	-12.35
				1	5	23.17	23.92	26.07	38.45	-12.38
				3	2	23.26	24.01	26.16	38.45	-12.29
				6	0	22.07	22.82	24.97	38.45	-13.48
	27033	848.3	16QAM	1	0	22.39	23.14	25.29	38.45	-13.16
				1	5	22.54	23.29	25.44	38.45	-13.01
				3	2	22.52	23.27	25.42	38.45	-13.03
				6	0	21.36	22.11	24.26	38.45	-14.19
	26797	824.7	64QAM	1	0	21.77	22.52	24.67	38.45	-13.78
				1	5	21.76	22.51	24.66	38.45	-13.79
				3	2	21.87	22.62	24.77	38.45	-13.68
				6	0	20.58	21.33	23.48	38.45	-14.97
	26915	836.5	64QAM	1	0	21.19	21.94	24.09	38.45	-14.36
				1	5	21.46	22.21	24.36	38.45	-14.09
				3	2	21.26	22.01	24.16	38.45	-14.29
				6	0	20.01	20.76	22.91	38.45	-15.54
	27033	848.3	64QAM	1	0	20.59	21.34	23.49	38.45	-14.96
				1	5	20.70	21.45	23.60	38.45	-14.85
				3	2	20.56	21.31	23.46	38.45	-14.99
				6	0	19.32	20.07	22.22	38.45	-16.23
	26797	824.7	256QAM	1	0	19.18	19.93	22.08	38.45	-16.37
				1	5	19.12	19.87	22.02	38.45	-16.43
				3	2	19.21	19.96	22.11	38.45	-16.34
				6	0	19.11	19.86	22.01	38.45	-16.44
	26915	836.5	256QAM	1	0	18.98	19.73	21.88	38.45	-16.57
				1	5	18.75	19.50	21.65	38.45	-16.8
				3	2	18.72	19.47	21.62	38.45	-16.83
				6	0	18.55	19.30	21.45	38.45	-17
	27033	848.3	256QAM	1	0	17.55	18.30	20.45	38.45	-18
				1	5	17.44	18.19	20.34	38.45	-18.11
				3	2	17.57	18.32	20.47	38.45	-17.98
				6	0	17.35	18.10	20.25	38.45	-18.2

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 2.9

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26805	825.5	QPSK	1	0	23.15	23.90	26.05	38.45	-12.4
				1	14	23.18	23.93	26.08	38.45	-12.37
				8	4	23.33	24.08	26.23	38.45	-12.22
				15	0	23.28	24.03	26.18	38.45	-12.27
	26915	836.5	QPSK	1	0	23.23	23.98	26.13	38.45	-12.32
				1	14	23.26	24.01	26.16	38.45	-12.29
				8	4	23.49	24.24	26.39	38.45	-12.06
				15	0	23.39	24.14	26.29	38.45	-12.16
	27025	847.5	QPSK	1	0	22.76	23.51	25.66	38.45	-12.79
				1	14	23.37	24.12	26.27	38.45	-12.18
				8	4	22.54	23.29	25.44	38.45	-13.01
				15	0	22.59	23.34	25.49	38.45	-12.96
	26805	825.5	16QAM	1	0	22.77	23.52	25.67	38.45	-12.78
				1	14	22.84	23.59	25.74	38.45	-12.71
				8	4	22.44	23.19	25.34	38.45	-13.11
				15	0	22.33	23.08	25.23	38.45	-13.22
	26915	836.5	16QAM	1	0	23.25	24.00	26.15	38.45	-12.3
				1	14	23.58	24.33	26.48	38.45	-11.97
				8	4	22.59	23.34	25.49	38.45	-12.96
				15	0	22.41	23.16	25.31	38.45	-13.14
	27025	847.5	16QAM	1	0	22.11	22.86	25.01	38.45	-13.44
				1	14	23.06	23.81	25.96	38.45	-12.49
				8	4	21.54	22.29	24.44	38.45	-14.01
				15	0	21.44	22.19	24.34	38.45	-14.11
	26805	825.5	64QAM	1	0	21.95	22.70	24.85	38.45	-13.6
				1	14	21.84	22.59	24.74	38.45	-13.71
				8	4	20.86	21.61	23.76	38.45	-14.69
				15	0	20.74	21.49	23.64	38.45	-14.81
	26915	836.5	64QAM	1	0	21.14	21.89	24.04	38.45	-14.41
				1	14	21.83	22.58	24.73	38.45	-13.72
				8	4	20.40	21.15	23.30	38.45	-15.15
				15	0	20.03	20.78	22.93	38.45	-15.52
	27025	847.5	64QAM	1	0	20.04	20.79	22.94	38.45	-15.51
				1	14	20.98	21.73	23.88	38.45	-14.57
				8	4	19.17	19.92	22.07	38.45	-16.38
				15	0	19.11	19.86	22.01	38.45	-16.44
	26805	825.5	256QAM	1	0	19.39	20.14	22.29	38.45	-16.16
				1	14	19.25	20.00	22.15	38.45	-16.3
				8	4	19.16	19.91	22.06	38.45	-16.39
				15	0	19.18	19.93	22.08	38.45	-16.37
	26915	836.5	256QAM	1	0	18.92	19.67	21.82	38.45	-16.63
				1	14	18.87	19.62	21.77	38.45	-16.68
				8	4	18.75	19.50	21.65	38.45	-16.8
				15	0	18.71	19.46	21.61	38.45	-16.84
	27025	847.5	256QAM	1	0	17.93	18.68	20.83	38.45	-17.62
				1	14	17.71	18.46	20.61	38.45	-17.84
				8	4	17.49	18.24	20.39	38.45	-18.06
				15	0	17.51	18.26	20.41	38.45	-18.04

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 2.9

LTE Band 26 Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	23.11	23.86	26.01	38.45	-12.44
				1	24	23.26	24.01	26.16	38.45	-12.29
				12	6	23.34	24.09	26.24	38.45	-12.21
				25	0	23.33	24.08	26.23	38.45	-12.22
	26915	836.5	QPSK	1	0	23.32	24.07	26.22	38.45	-12.23
				1	24	23.51	24.26	26.41	38.45	-12.04
				12	6	23.36	24.11	26.26	38.45	-12.19
				25	0	23.42	24.17	26.32	38.45	-12.13
	27015	846.5	QPSK	1	0	22.62	23.37	25.52	38.45	-12.93
				1	24	23.34	24.09	26.24	38.45	-12.21
				12	6	21.70	22.45	24.60	38.45	-13.85
				25	0	21.97	22.72	24.87	38.45	-13.58
	26815	826.5	16QAM	1	0	23.13	23.88	26.03	38.45	-12.42
				1	24	23.19	23.94	26.09	38.45	-12.36
				12	6	22.35	23.10	25.25	38.45	-13.2
				25	0	22.36	23.11	25.26	38.45	-13.19
	26915	836.5	16QAM	1	0	22.89	23.64	25.79	38.45	-12.66
				1	24	22.85	23.60	25.75	38.45	-12.7
				12	6	22.19	22.94	25.09	38.45	-13.36
				25	0	22.24	22.99	25.14	38.45	-13.31
	27015	846.5	16QAM	1	0	22.15	22.90	25.05	38.45	-13.4
				1	24	23.04	23.79	25.94	38.45	-12.51
				12	6	20.66	21.41	23.56	38.45	-14.89
				25	0	20.85	21.60	23.75	38.45	-14.7
	26815	826.5	64QAM	1	0	21.69	22.44	24.59	38.45	-13.86
				1	24	21.29	22.04	24.19	38.45	-14.26
				12	6	20.64	21.39	23.54	38.45	-14.91
				25	0	20.47	21.22	23.37	38.45	-15.08
	26915	836.5	64QAM	1	0	20.81	21.56	23.71	38.45	-14.74
				1	24	21.89	22.64	24.79	38.45	-13.66
				12	6	20.15	20.90	23.05	38.45	-15.4
				25	0	20.04	20.79	22.94	38.45	-15.51
	27015	846.5	64QAM	1	0	20.10	20.85	23.00	38.45	-15.45
				1	24	20.85	21.60	23.75	38.45	-14.7
				12	6	18.55	19.30	21.45	38.45	-17
				25	0	18.68	19.43	21.58	38.45	-16.87
	26815	826.5	256QAM	1	0	19.25	20.00	22.15	38.45	-16.3
				1	24	19.16	19.91	22.06	38.45	-16.39
				12	6	19.23	19.98	22.13	38.45	-16.32
				25	0	19.18	19.93	22.08	38.45	-16.37
	26915	836.5	256QAM	1	0	18.97	19.72	21.87	38.45	-16.58
				1	24	18.86	19.61	21.76	38.45	-16.69
				12	6	18.69	19.44	21.59	38.45	-16.86
				25	0	18.64	19.39	21.54	38.45	-16.91
	27015	846.5	256QAM	1	0	17.83	18.58	20.73	38.45	-17.72
				1	24	17.58	18.33	20.48	38.45	-17.97
				12	6	17.66	18.41	20.56	38.45	-17.89
				25	0	17.58	18.33	20.48	38.45	-17.97

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>. 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 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.

Antenna gain (dBi) 2.9

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	22.80	23.55	25.70	38.45	-12.75
				1	49	23.29	24.04	26.19	38.45	-12.26
				25	12	23.17	23.92	26.07	38.45	-12.38
				50	0	23.19	23.94	26.09	38.45	-12.36
	26915	836.5	QPSK	1	0	23.31	24.06	26.21	38.45	-12.24
				1	49	23.45	24.20	26.35	38.45	-12.1
				25	12	23.41	24.16	26.31	38.45	-12.14
				50	0	23.52	24.27	26.42	38.45	-12.03
	26990	844	QPSK	1	0	23.45	24.20	26.35	38.45	-12.1
				1	49	23.26	24.01	26.16	38.45	-12.29
				25	12	21.91	22.66	24.81	38.45	-13.64
				50	0	22.61	23.36	25.51	38.45	-12.94
	26840	829	16QAM	1	0	23.19	23.94	26.09	38.45	-12.36
				1	49	23.09	23.84	25.99	38.45	-12.46
				25	12	22.14	22.89	25.04	38.45	-13.41
				50	0	22.06	22.81	24.96	38.45	-13.49
	26915	836.5	16QAM	1	0	23.26	24.01	26.16	38.45	-12.29
				1	49	23.03	23.78	25.93	38.45	-12.52
				25	12	22.32	23.07	25.22	38.45	-13.23
				50	0	22.42	23.17	25.32	38.45	-13.13
	26990	844	16QAM	1	0	23.00	23.75	25.90	38.45	-12.55
				1	49	23.09	23.84	25.99	38.45	-12.46
				25	12	21.06	21.81	23.96	38.45	-14.49
				50	0	21.50	22.25	24.40	38.45	-14.05
	26840	829	64QAM	1	0	21.48	22.23	24.38	38.45	-14.07
				1	49	20.67	21.42	23.57	38.45	-14.88
				25	12	20.08	20.83	22.98	38.45	-15.47
				50	0	20.00	20.75	22.90	38.45	-15.55
	26915	836.5	64QAM	1	0	20.75	21.50	23.65	38.45	-14.8
				1	49	21.68	22.43	24.58	38.45	-13.87
				25	12	20.18	20.93	23.08	38.45	-15.37
				50	0	20.19	20.94	23.09	38.45	-15.36
	26990	844	64QAM	1	0	21.57	22.32	24.47	38.45	-13.98
				1	49	20.66	21.41	23.56	38.45	-14.89
				25	12	19.00	19.75	21.90	38.45	-16.55
				50	0	19.36	20.11	22.26	38.45	-16.19
	26840	829	256QAM	1	0	19.23	19.98	22.13	38.45	-16.32
				1	49	19.21	19.96	22.11	38.45	-16.34
				25	12	19.24	19.99	22.14	38.45	-16.31
				50	0	19.16	19.91	22.06	38.45	-16.39
	26915	836.5	256QAM	1	0	18.77	19.52	21.67	38.45	-16.78
				1	49	18.76	19.51	21.66	38.45	-16.79
				25	12	18.61	19.36	21.51	38.45	-16.94
				50	0	18.68	19.43	21.58	38.45	-16.87
	26990	844	256QAM	1	0	18.27	19.02	21.17	38.45	-17.28
				1	49	17.87	18.62	20.77	38.45	-17.68
				25	12	17.96	18.71	20.86	38.45	-17.59
				50	0	17.93	18.68	20.83	38.45	-17.62

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 2.9

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26865	831.5	QPSK	1	0	23.39	24.14	26.29	38.45	-12.16
				1	74	23.03	23.78	25.93	38.45	-12.52
				36	18	22.65	23.40	25.55	38.45	-12.9
				75	0	23.06	23.81	25.96	38.45	-12.49
	26915	836.5	QPSK	1	0	23.49	24.24	26.39	38.45	-12.06
				1	74	23.55	24.30	26.45	38.45	-12
				36	18	23.52	24.27	26.42	38.45	-12.03
				75	0	23.80	24.55	26.70	38.45	-11.75
	26965	841.5	QPSK	1	0	23.53	24.28	26.43	38.45	-12.02
				1	74	23.59	24.34	26.49	38.45	-11.96
				36	18	23.68	24.43	26.58	38.45	-11.87
				75	0	23.55	24.30	26.45	38.45	-12
	26865	831.5	16QAM	1	0	22.61	23.36	25.51	38.45	-12.94
				1	74	22.68	23.43	25.58	38.45	-12.87
				36	18	21.42	22.17	24.32	38.45	-14.13
				75	0	22.16	22.91	25.06	38.45	-13.39
	26915	836.5	16QAM	1	0	22.76	23.51	25.66	38.45	-12.79
				1	74	22.97	23.72	25.87	38.45	-12.58
				36	18	22.56	23.31	25.46	38.45	-12.99
				75	0	22.41	23.16	25.31	38.45	-13.14
	26965	841.5	16QAM	1	0	22.86	23.61	25.76	38.45	-12.69
				1	74	23.02	23.77	25.92	38.45	-12.53
				36	18	22.32	23.07	25.22	38.45	-13.23
				75	0	22.38	23.13	25.28	38.45	-13.17
	26865	831.5	64QAM	1	0	21.11	21.86	24.01	38.45	-14.44
				1	74	21.61	22.36	24.51	38.45	-13.94
				36	18	19.69	20.44	22.59	38.45	-15.86
				75	0	19.95	20.70	22.85	38.45	-15.6
	26915	836.5	64QAM	1	0	21.33	22.08	24.23	38.45	-14.22
				1	74	20.87	21.62	23.77	38.45	-14.68
				36	18	20.31	21.06	23.21	38.45	-15.24
				75	0	20.14	20.89	23.04	38.45	-15.41
	26965	841.5	64QAM	1	0	21.69	22.44	24.59	38.45	-13.86
				1	74	21.47	22.22	24.37	38.45	-14.08
				36	18	20.33	21.08	23.23	38.45	-15.22
				75	0	20.02	20.77	22.92	38.45	-15.53
	26865	831.5	256QAM	1	0	19.56	20.31	22.46	38.45	-15.99
				1	74	19.25	20.00	22.15	38.45	-16.3
				36	18	19.22	19.97	22.12	38.45	-16.33
				75	0	19.15	19.90	22.05	38.45	-16.4
	26915	836.5	256QAM	1	0	19.26	20.01	22.16	38.45	-16.29
				1	74	18.55	19.30	21.45	38.45	-17
				36	18	18.74	19.49	21.64	38.45	-16.81
				75	0	18.90	19.65	21.80	38.45	-16.65
	26965	841.5	256QAM	1	0	19.23	19.98	22.13	38.45	-16.32
				1	74	18.22	18.97	21.12	38.45	-17.33
				36	18	18.32	19.07	21.22	38.45	-17.23
				75	0	18.38	19.13	21.28	38.45	-17.17

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 2.9

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26697	814.7	QPSK	1	0	22.32	23.07	25.22	50	-24.78
				1	5	22.24	22.99	25.14	50	-24.86
				3	2	22.25	23.00	25.15	50	-24.85
				6	0	21.32	22.07	24.22	50	-25.78
	26740	819	QPSK	1	0	22.53	23.28	25.43	50	-24.57
				1	5	22.75	23.50	25.65	50	-24.35
				3	2	22.63	23.38	25.53	50	-24.47
				6	0	21.63	22.38	24.53	50	-25.47
	26783	823.3	QPSK	1	0	22.56	23.31	25.46	50	-24.54
				1	5	22.42	23.17	25.32	50	-24.68
				3	2	23.01	23.76	25.91	50	-24.09
				6	0	23.03	23.78	25.93	50	-24.07
	26697	814.7	16QAM	1	0	21.65	22.40	24.55	50	-25.45
				1	5	21.60	22.35	24.50	50	-25.5
				3	2	21.30	22.05	24.20	50	-25.8
				6	0	20.45	21.20	23.35	50	-26.65
	26740	819	16QAM	1	0	21.89	22.64	24.79	50	-25.21
				1	5	22.16	22.91	25.06	50	-24.94
				3	2	21.57	22.32	24.47	50	-25.53
				6	0	20.57	21.32	23.47	50	-26.53
	26783	823.3	16QAM	1	0	23.08	23.83	25.98	50	-24.02
				1	5	22.68	23.43	25.58	50	-24.42
				3	2	23.17	23.92	26.07	50	-23.93
				6	0	22.10	22.85	25.00	50	-25
	26697	814.7	64QAM	1	0	19.59	20.34	22.49	50	-27.51
				1	5	19.49	20.24	22.39	50	-27.61
				3	2	19.53	20.28	22.43	50	-27.57
				6	0	18.30	19.05	21.20	50	-28.8
	26740	819	64QAM	1	0	19.33	20.08	22.23	50	-27.77
				1	5	19.75	20.50	22.65	50	-27.35
				3	2	19.83	20.58	22.73	50	-27.27
				6	0	18.51	19.26	21.41	50	-28.59
	26783	823.3	64QAM	1	0	21.18	21.93	24.08	50	-25.92
				1	5	21.66	22.41	24.56	50	-25.44
				3	2	21.37	22.12	24.27	50	-25.73
				6	0	20.38	21.13	23.28	50	-26.72
	26697	814.7	256QAM	1	0	19.83	20.58	22.73	50	-27.27
				1	5	19.59	20.34	22.49	50	-27.51
				3	2	19.59	20.34	22.49	50	-27.51
				6	0	19.56	20.31	22.46	50	-27.54
	26740	819	256QAM	1	0	19.66	20.41	22.56	50	-27.44
				1	5	19.61	20.36	22.51	50	-27.49
				3	2	19.44	20.19	22.34	50	-27.66
				6	0	19.49	20.24	22.39	50	-27.61
	26783	823.3	256QAM	1	0	19.50	20.25	22.40	50	-27.6
				1	5	19.45	20.20	22.35	50	-27.65
				3	2	19.33	20.08	22.23	50	-27.77
				6	0	19.28	20.03	22.18	50	-27.82

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 2.9

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26705	815.5	QPSK	1	0	22.52	23.27	25.42	50	-24.58
				1	14	22.16	22.91	25.06	50	-24.94
				8	4	21.41	22.16	24.31	50	-25.69
				15	0	21.35	22.10	24.25	50	-25.75
	26740	819	QPSK	1	0	22.28	23.03	25.18	50	-24.82
				1	14	22.96	23.71	25.86	50	-24.14
				8	4	21.80	22.55	24.70	50	-25.3
				15	0	21.69	22.44	24.59	50	-25.41
	26775	822.5	QPSK	1	0	23.02	23.77	25.92	50	-24.08
				1	14	22.85	23.60	25.75	50	-24.25
				8	4	23.18	23.93	26.08	50	-23.92
				15	0	23.12	23.87	26.02	50	-23.98
	26705	815.5	16QAM	1	0	21.72	22.47	24.62	50	-25.38
				1	14	21.39	22.14	24.29	50	-25.71
				8	4	20.41	21.16	23.31	50	-26.69
				15	0	20.20	20.95	23.10	50	-26.9
	26740	819	16QAM	1	0	21.67	22.42	24.57	50	-25.43
				1	14	22.37	23.12	25.27	50	-24.73
				8	4	20.84	21.59	23.74	50	-26.26
				15	0	20.56	21.31	23.46	50	-26.54
	26775	822.5	16QAM	1	0	23.11	23.86	26.01	50	-23.99
				1	14	22.81	23.56	25.71	50	-24.29
				8	4	22.31	23.06	25.21	50	-24.79
				15	0	22.20	22.95	25.10	50	-24.9
	26705	815.5	64QAM	1	0	19.74	20.49	22.64	50	-27.36
				1	14	19.41	20.16	22.31	50	-27.69
				8	4	18.41	19.16	21.31	50	-28.69
				15	0	18.31	19.06	21.21	50	-28.79
	26740	819	64QAM	1	0	19.62	20.37	22.52	50	-27.48
				1	14	20.19	20.94	23.09	50	-26.91
				8	4	18.65	19.40	21.55	50	-28.45
				15	0	18.61	19.36	21.51	50	-28.49
	26775	822.5	64QAM	1	0	21.04	21.79	23.94	50	-26.06
				1	14	21.64	22.39	24.54	50	-25.46
				8	4	20.29	21.04	23.19	50	-26.81
				15	0	20.15	20.90	23.05	50	-26.95
	26705	815.5	256QAM	1	0	19.94	20.69	22.84	50	-27.16
				1	14	19.83	20.58	22.73	50	-27.27
				8	4	19.63	20.38	22.53	50	-27.47
				15	0	19.66	20.41	22.56	50	-27.44
	26740	819	256QAM	1	0	19.94	20.69	22.84	50	-27.16
				1	14	19.89	20.64	22.79	50	-27.21
				8	4	19.61	20.36	22.51	50	-27.49
				15	0	19.48	20.23	22.38	50	-27.62
	26775	822.5	256QAM	1	0	19.79	20.54	22.69	50	-27.31
				1	14	19.69	20.44	22.59	50	-27.41
				8	4	19.48	20.23	22.38	50	-27.62
				15	0	19.41	20.16	22.31	50	-27.69

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 2.9

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26715	816.5	QPSK	1	0	22.30	23.05	25.20	50	-24.8
				1	24	22.32	23.07	25.22	50	-24.78
				12	6	21.19	21.94	24.09	50	-25.91
				25	0	21.17	21.92	24.07	50	-25.93
	26740	819	QPSK	1	0	22.20	22.95	25.10	50	-24.9
				1	24	22.99	23.74	25.89	50	-24.11
				12	6	21.63	22.38	24.53	50	-25.47
				25	0	21.64	22.39	24.54	50	-25.46
	26765	821.5	QPSK	1	0	22.87	23.62	25.77	50	-24.23
				1	24	23.18	23.93	26.08	50	-23.92
				12	6	22.90	23.65	25.80	50	-24.2
				25	0	22.87	23.62	25.77	50	-24.23
	26715	816.5	16QAM	1	0	21.77	22.52	24.67	50	-25.33
				1	24	21.75	22.50	24.65	50	-25.35
				12	6	20.24	20.99	23.14	50	-26.86
				25	0	20.24	20.99	23.14	50	-26.86
	26740	819	16QAM	1	0	21.46	22.21	24.36	50	-25.64
				1	24	22.64	23.39	25.54	50	-24.46
				12	6	20.66	21.41	23.56	50	-26.44
				25	0	20.65	21.40	23.55	50	-26.45
	26765	821.5	16QAM	1	0	22.38	23.13	25.28	50	-24.72
				1	24	22.67	23.42	25.57	50	-24.43
				12	6	21.62	22.37	24.52	50	-25.48
				25	0	21.67	22.42	24.57	50	-25.43
	26715	816.5	64QAM	1	0	19.27	20.02	22.17	50	-27.83
				1	24	19.25	20.00	22.15	50	-27.85
				12	6	18.24	18.99	21.14	50	-28.86
				25	0	18.21	18.96	21.11	50	-28.89
	26740	819	64QAM	1	0	19.30	20.05	22.20	50	-27.8
				1	24	20.19	20.94	23.09	50	-26.91
				12	6	18.61	19.36	21.51	50	-28.49
				25	0	18.55	19.30	21.45	50	-28.55
	26765	821.5	64QAM	1	0	20.02	20.77	22.92	50	-27.08
				1	24	21.37	22.12	24.27	50	-25.73
				12	6	19.69	20.44	22.59	50	-27.41
				25	0	19.52	20.27	22.42	50	-27.58
	26715	816.5	256QAM	1	0	19.87	20.62	22.77	50	-27.23
				1	24	19.75	20.50	22.65	50	-27.35
				12	6	19.67	20.42	22.57	50	-27.43
				25	0	19.64	20.39	22.54	50	-27.46
	26740	819	256QAM	1	0	19.87	20.62	22.77	50	-27.23
				1	24	19.71	20.46	22.61	50	-27.39
				12	6	19.71	20.46	22.61	50	-27.39
				25	0	19.56	20.31	22.46	50	-27.54
	26765	821.5	256QAM	1	0	19.83	20.58	22.73	50	-27.27
				1	24	19.75	20.50	22.65	50	-27.35
				12	6	19.51	20.26	22.41	50	-27.59
				25	0	19.42	20.17	22.32	50	-27.68

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 2.9

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26740	819	QPSK	1	0	22.69	23.44	25.59	50	-24.41
				1	49	22.83	23.58	25.73	50	-24.27
				25	12	21.78	22.53	24.68	50	-25.32
				50	0	22.01	22.76	24.91	50	-25.09
	26740	819	16QAM	1	0	22.21	22.96	25.11	50	-24.89
				1	49	23.65	24.40	26.55	50	-23.45
				25	12	20.63	21.38	23.53	50	-26.47
				50	0	20.99	21.74	23.89	50	-26.11
	26740	819	64QAM	1	0	19.60	20.35	22.50	50	-27.5
				1	49	21.26	22.01	24.16	50	-25.84
				25	12	18.60	19.35	21.50	50	-28.5
				50	0	18.72	19.47	21.62	50	-28.38
	26740	819	256QAM	1	0	19.96	20.71	22.86	50	-27.14
				1	49	19.82	20.57	22.72	50	-27.28
				25	12	19.61	20.36	22.51	50	-27.49
				50	0	19.58	20.33	22.48	50	-27.52

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>. 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 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.

Antenna gain (dBi) -0.9

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/5MHz)	EIRP Average (dBm/5MHz)	EIRP Limit (dBm/5MHz)	Margin (dB)
5	27685	2307.5	QPSK	1	0	22.60	21.70	24	-2.30
				1	24	22.62	21.72	24	-2.28
				12	6	22.68	21.78	24	-2.22
				25	0	22.49	21.59	24	-2.41
	27710	2310	QPSK	1	0	22.76	21.86	24	-2.14
				1	24	22.33	21.43	24	-2.57
				12	6	22.44	21.54	24	-2.46
				25	0	22.28	21.38	24	-2.62
	27735	2312.5	QPSK	1	0	22.78	21.88	24	-2.12
				1	24	21.89	20.99	24	-3.01
				12	6	22.21	21.31	24	-2.69
				25	0	22.06	21.16	24	-2.84
	27685	2307.5	16QAM	1	0	22.19	21.29	24	-2.71
				1	24	22.46	21.56	24	-2.44
				12	6	21.68	20.78	24	-3.22
				25	0	21.42	20.52	24	-3.48
	27710	2310	16QAM	1	0	22.30	21.40	24	-2.6
				1	24	22.29	21.39	24	-2.61
				12	6	21.51	20.61	24	-3.39
				25	0	21.34	20.44	24	-3.56
	27735	2312.5	16QAM	1	0	22.28	21.38	24	-2.62
				1	24	22.28	21.38	24	-2.62
				12	6	21.30	20.40	24	-3.6
				25	0	21.16	20.26	24	-3.74
	27685	2307.5	64QAM	1	0	20.77	19.87	24	-4.13
				1	24	20.87	19.97	24	-4.03
				12	6	19.96	19.06	24	-4.94
				25	0	19.78	18.88	24	-5.12
	27710	2310	64QAM	1	0	20.73	19.83	24	-4.17
				1	24	20.64	19.74	24	-4.26
				12	6	19.77	18.87	24	-5.13
				25	0	19.58	18.68	24	-5.32
	27735	2312.5	64QAM	1	0	20.45	19.55	24	-4.45
				1	24	20.43	19.53	24	-4.47
				12	6	19.47	18.57	24	-5.43
				25	0	19.38	18.48	24	-5.52
	27685	2307.5	256QAM	1	0	19.32	18.42	24	-5.58
				1	24	19.26	18.36	24	-5.64
				12	6	19.14	18.24	24	-5.76
				25	0	18.94	18.04	24	-5.96
	27710	2310	256QAM	1	0	19.43	18.53	24	-5.47
				1	24	19.36	18.46	24	-5.54
				12	6	19.03	18.13	24	-5.87
				25	0	18.95	18.05	24	-5.95
	27735	2312.5	256QAM	1	0	19.31	18.41	24	-5.59
				1	24	19.19	18.29	24	-5.71
				12	6	19.09	18.19	24	-5.81
				25	0	19.02	18.12	24	-5.88

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) -0.9

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/5MHz)	EIRP Average (dBm/5MHz)	EIRP Limit (dBm/5MHz)	Margin (dB)
10	27710	2310	QPSK	1	0	22.60	21.70	24	-2.3
				1	49	22.49	21.59	24	-2.41
				25	12	22.67	21.77	24	-2.23
				50	0	22.62	21.72	24	-2.28
	27710	2310	16QAM	1	0	22.10	21.20	24	-2.8
				1	49	22.19	21.29	24	-2.71
				25	12	21.20	20.30	24	-3.7
				50	0	21.55	20.65	24	-3.35
	27710	2310	64QAM	1	0	20.93	20.03	24	-3.97
				1	49	20.53	19.63	24	-4.37
				25	12	19.80	18.90	24	-5.1
				50	0	19.68	18.78	24	-5.22
	27710	2310	256QAM	1	0	19.25	18.35	24	-5.65
				1	49	19.15	18.25	24	-5.75
				25	12	18.97	18.07	24	-5.93
				50	0	18.93	18.03	24	-5.97

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>. 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 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.

Antenna gain (dBi) 3.4

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	39675	2498.5	QPSK	1	0	25.16	28.56	33	-4.44
				1	24	25.32	28.72	33	-4.28
				12	6	24.40	27.80	33	-5.2
				25	0	24.35	27.75	33	-5.25
	40620	2593	QPSK	1	0	25.11	28.51	33	-4.49
				1	24	25.11	28.51	33	-4.49
				12	6	24.28	27.68	33	-5.32
				25	0	24.17	27.57	33	-5.43
	41565	2687.5	QPSK	1	0	24.77	28.17	33	-4.83
				1	24	24.59	27.99	33	-5.01
				12	6	23.93	27.33	33	-5.67
				25	0	23.83	27.23	33	-5.77
	39675	2498.5	16QAM	1	0	24.28	27.68	33	-5.32
				1	24	24.56	27.96	33	-5.04
				12	6	23.63	27.03	33	-5.97
				25	0	23.54	26.94	33	-6.06
	40620	2593	16QAM	1	0	24.19	27.59	33	-5.41
				1	24	24.32	27.72	33	-5.28
				12	6	23.45	26.85	33	-6.15
				25	0	23.42	26.82	33	-6.18
	41565	2687.5	16QAM	1	0	24.02	27.42	33	-5.58
				1	24	23.90	27.30	33	-5.7
				12	6	23.11	26.51	33	-6.49
				25	0	23.03	26.43	33	-6.57
	39675	2498.5	64QAM	1	0	22.52	25.92	33	-7.08
				1	24	22.85	26.25	33	-6.75
				12	6	21.85	25.25	33	-7.75
				25	0	21.78	25.18	33	-7.82
	40620	2593	64QAM	1	0	22.44	25.84	33	-7.16
				1	24	22.60	26.00	33	-7
				12	6	21.72	25.12	33	-7.88
				25	0	21.62	25.02	33	-7.98
	41565	2687.5	64QAM	1	0	22.24	25.64	33	-7.36
				1	24	22.08	25.48	33	-7.52
				12	6	21.36	24.76	33	-8.24
				25	0	21.33	24.73	33	-8.27
	39675	2498.5	256QAM	1	0	22.09	25.49	33	-7.51
				1	24	22.34	25.74	33	-7.26
				12	6	22.57	25.97	33	-7.03
				25	0	22.51	25.91	33	-7.09
	40620	2593	256QAM	1	0	22.15	25.55	33	-7.45
				1	24	22.30	25.70	33	-7.3
				12	6	22.36	25.76	33	-7.24
				25	0	22.20	25.60	33	-7.4
	41565	2687.5	256QAM	1	0	21.95	25.35	33	-7.65
				1	24	21.93	25.33	33	-7.67
				12	6	22.14	25.54	33	-7.46
				25	0	22.05	25.45	33	-7.55

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 3.4

LTE Band 41 Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	39700	2501	QPSK	1	0	24.77	28.17	33	-4.83
				1	49	24.67	28.07	33	-4.93
				25	12	24.54	27.94	33	-5.06
				50	0	24.48	27.88	33	-5.12
	40620	2593	QPSK	1	0	24.96	28.36	33	-4.64
				1	49	24.86	28.26	33	-4.74
				25	12	24.30	27.70	33	-5.3
				50	0	24.20	27.60	33	-5.4
	41540	2685	QPSK	1	0	24.86	28.26	33	-4.74
				1	49	24.57	27.97	33	-5.03
				25	12	24.02	27.42	33	-5.58
				50	0	23.98	27.38	33	-5.62
	39700	2501	16QAM	1	0	24.36	27.76	33	-5.24
				1	49	24.60	28.00	33	-5
				25	12	23.71	27.11	33	-5.89
				50	0	23.66	27.06	33	-5.94
	40620	2593	16QAM	1	0	24.27	27.67	33	-5.33
				1	49	24.31	27.71	33	-5.29
				25	12	23.46	26.86	33	-6.14
				50	0	23.40	26.80	33	-6.2
	41540	2685	16QAM	1	0	24.31	27.71	33	-5.29
				1	49	23.83	27.23	33	-5.77
				25	12	23.19	26.59	33	-6.41
				50	0	23.15	26.55	33	-6.45
	39700	2501	64QAM	1	0	22.49	25.89	33	-7.11
				1	49	22.95	26.35	33	-6.65
				25	12	21.92	25.32	33	-7.68
				50	0	21.82	25.22	33	-7.78
	40620	2593	64QAM	1	0	22.43	25.83	33	-7.17
				1	49	22.57	25.97	33	-7.03
				25	12	21.67	25.07	33	-7.93
				50	0	21.59	24.99	33	-8.01
	41540	2685	64QAM	1	0	22.42	25.82	33	-7.18
				1	49	22.06	25.46	33	-7.54
				25	12	21.47	24.87	33	-8.13
				50	0	21.39	24.79	33	-8.21
	39700	2501	256QAM	1	0	22.16	25.56	33	-7.44
				1	49	22.48	25.88	33	-7.12
				25	12	22.40	25.80	33	-7.2
				50	0	22.46	25.86	33	-7.14
	40620	2593	256QAM	1	0	22.13	25.53	33	-7.47
				1	49	22.31	25.71	33	-7.29
				25	12	22.31	25.71	33	-7.29
				50	0	22.27	25.67	33	-7.33
	41540	2685	256QAM	1	0	21.78	25.18	33	-7.82
				1	49	22.04	25.44	33	-7.56
				25	12	22.14	25.54	33	-7.46
				50	0	22.11	25.51	33	-7.49

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 3.4

LTE Band 41 Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	25.20	28.60	33	-4.4
				1	74	24.86	28.26	33	-4.74
				36	18	24.61	28.01	33	-4.99
				75	0	24.61	28.01	33	-4.99
	40620	2593	QPSK	1	0	24.95	28.35	33	-4.65
				1	74	25.11	28.51	33	-4.49
				36	18	24.26	27.66	33	-5.34
				75	0	24.18	27.58	33	-5.42
	41515	2682.5	QPSK	1	0	25.02	28.42	33	-4.58
				1	74	24.52	27.92	33	-5.08
				36	18	24.10	27.50	33	-5.5
				75	0	24.00	27.40	33	-5.6
	39725	2503.5	16QAM	1	0	24.28	27.68	33	-5.32
				1	74	24.71	28.11	33	-4.89
				36	18	23.63	27.03	33	-5.97
				75	0	23.65	27.05	33	-5.95
	40620	2593	16QAM	1	0	24.24	27.64	33	-5.36
				1	74	24.37	27.77	33	-5.23
				36	18	23.37	26.77	33	-6.23
				75	0	23.35	26.75	33	-6.25
	41515	2682.5	16QAM	1	0	24.29	27.69	33	-5.31
				1	74	23.80	27.20	33	-5.8
				36	18	23.23	26.63	33	-6.37
				75	0	23.19	26.59	33	-6.41
	39725	2503.5	64QAM	1	0	22.41	25.81	33	-7.19
				1	74	23.01	26.41	33	-6.59
				36	18	21.93	25.33	33	-7.67
				75	0	21.88	25.28	33	-7.72
	40620	2593	64QAM	1	0	22.40	25.80	33	-7.2
				1	74	22.51	25.91	33	-7.09
				36	18	21.63	25.03	33	-7.97
				75	0	21.59	24.99	33	-8.01
	41515	2682.5	64QAM	1	0	22.61	26.01	33	-6.99
				1	74	21.99	25.39	33	-7.61
				36	18	21.53	24.93	33	-8.07
				75	0	21.46	24.86	33	-8.14
	39725	2503.5	256QAM	1	0	22.39	25.79	33	-7.21
				1	74	22.80	26.20	33	-6.8
				36	18	22.66	26.06	33	-6.94
				75	0	22.65	26.05	33	-6.95
	40620	2593	256QAM	1	0	22.12	25.52	33	-7.48
				1	74	22.33	25.73	33	-7.27
				36	18	22.27	25.67	33	-7.33
				75	0	22.22	25.62	33	-7.38
	41515	2682.5	256QAM	1	0	22.14	25.54	33	-7.46
				1	74	22.15	25.55	33	-7.45
				36	18	22.28	25.68	33	-7.32
				75	0	22.19	25.59	33	-7.41

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。

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, 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 3.4

LTE Band 41 Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	39750	2506	QPSK	1	0	25.16	28.56	33	-4.44
				1	99	24.86	28.26	33	-4.74
				50	25	24.13	27.53	33	-5.47
				100	0	24.74	28.14	33	-4.86
	40620	2593	QPSK	1	0	25.02	28.42	33	-4.58
				1	99	25.12	28.52	33	-4.48
				50	25	24.30	27.70	33	-5.3
				100	0	24.28	27.68	33	-5.32
	41490	2680	QPSK	1	0	25.01	28.41	33	-4.59
				1	99	24.48	27.88	33	-5.12
				50	25	24.13	27.53	33	-5.47
				100	0	24.08	27.48	33	-5.52
	39750	2506	16QAM	1	0	24.38	27.78	33	-5.22
				1	99	24.97	28.37	33	-4.63
				50	25	23.81	27.21	33	-5.79
				100	0	23.68	27.08	33	-5.92
	40620	2593	16QAM	1	0	24.22	27.62	33	-5.38
				1	99	24.36	27.76	33	-5.24
				50	25	23.47	26.87	33	-6.13
				100	0	23.35	26.75	33	-6.25
	41490	2680	16QAM	1	0	24.22	27.62	33	-5.38
				1	99	23.81	27.21	33	-5.79
				50	25	23.29	26.69	33	-6.31
				100	0	23.22	26.62	33	-6.38
	39750	2506	64QAM	1	0	22.53	25.93	33	-7.07
				1	99	23.18	26.58	33	-6.42
				50	25	22.00	25.40	33	-7.6
				100	0	21.90	25.30	33	-7.7
	40620	2593	64QAM	1	0	22.34	25.74	33	-7.26
				1	99	22.53	25.93	33	-7.07
				50	25	21.63	25.03	33	-7.97
				100	0	21.53	24.93	33	-8.07
	41490	2680	64QAM	1	0	22.50	25.90	33	-7.1
				1	99	21.87	25.27	33	-7.73
				50	25	21.59	24.99	33	-8.01
				100	0	21.44	24.84	33	-8.16
	39750	2506	256QAM	1	0	22.23	25.63	33	-7.37
				1	99	22.56	25.96	33	-7.04
				50	25	22.79	26.19	33	-6.81
				100	0	22.70	26.10	33	-6.9
	40620	2593	256QAM	1	0	22.06	25.46	33	-7.54
				1	99	22.31	25.71	33	-7.29
				50	25	21.97	25.37	33	-7.63
				100	0	22.16	25.56	33	-7.44
	41490	2680	256QAM	1	0	22.17	25.57	33	-7.43
				1	99	22.21	25.61	33	-7.39
				50	25	22.29	25.69	33	-7.31
				100	0	22.25	25.65	33	-7.35

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4.5

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	131979	1710.7	QPSK	1	0	22.87	27.37	30	-2.63
				1	5	22.81	27.31	30	-2.69
				3	2	22.40	26.90	30	-3.1
				6	0	22.01	26.51	30	-3.49
	132322	1745	QPSK	1	0	23.26	27.76	30	-2.24
				1	5	23.30	27.80	30	-2.2
				3	2	23.35	27.85	30	-2.15
				6	0	23.15	27.65	30	-2.35
	132665	1779.3	QPSK	1	0	22.93	27.43	30	-2.57
				1	5	22.93	27.43	30	-2.57
				3	2	23.05	27.55	30	-2.45
				6	0	22.21	26.71	30	-3.29
	131979	1710.7	16QAM	1	0	22.35	26.85	30	-3.15
				1	5	22.42	26.92	30	-3.08
				3	2	22.09	26.59	30	-3.41
				6	0	21.16	25.66	30	-4.34
	132322	1745	16QAM	1	0	23.15	27.65	30	-2.35
				1	5	23.03	27.53	30	-2.47
				3	2	23.17	27.67	30	-2.33
				6	0	22.23	26.73	30	-3.27
	132665	1779.3	16QAM	1	0	22.14	26.64	30	-3.36
				1	5	22.07	26.57	30	-3.43
				3	2	22.14	26.64	30	-3.36
				6	0	21.34	25.84	30	-4.16
	131979	1710.7	64QAM	1	0	20.19	24.69	30	-5.31
				1	5	20.36	24.86	30	-5.14
				3	2	20.45	24.95	30	-5.05
				6	0	19.22	23.72	30	-6.28
	132322	1745	64QAM	1	0	21.46	25.96	30	-4.04
				1	5	21.62	26.12	30	-3.88
				3	2	21.57	26.07	30	-3.93
				6	0	20.37	24.87	30	-5.13
	132665	1779.3	64QAM	1	0	20.46	24.96	30	-5.04
				1	5	20.43	24.93	30	-5.07
				3	2	20.54	25.04	30	-4.96
				6	0	19.56	24.06	30	-5.94
	131979	1710.7	256QAM	1	0	19.34	23.84	30	-6.16
				1	5	19.23	23.73	30	-6.27
				3	2	19.10	23.60	30	-6.4
				6	0	18.92	23.42	30	-6.58
	132322	1745	256QAM	1	0	19.39	23.89	30	-6.11
				1	5	19.29	23.79	30	-6.21
				3	2	19.15	23.65	30	-6.35
				6	0	19.03	23.53	30	-6.47
	132665	1779.3	256QAM	1	0	19.53	24.03	30	-5.97
				1	5	19.44	23.94	30	-6.06
				3	2	19.12	23.62	30	-6.38
				6	0	19.05	23.55	30	-6.45

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4.5

LTE Band 66 Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	23.04	27.54	30	-2.46
				1	14	23.09	27.59	30	-2.41
				8	4	22.46	26.96	30	-3.04
				15	0	22.31	26.81	30	-3.19
	132322	1745	QPSK	1	0	23.56	28.06	30	-1.94
				1	14	23.64	28.14	30	-1.86
				8	4	23.41	27.91	30	-2.09
				15	0	23.29	27.79	30	-2.21
	132657	1778.5	QPSK	1	0	23.62	28.12	30	-1.88
				1	14	23.31	27.81	30	-2.19
				8	4	22.64	27.14	30	-2.86
				15	0	22.58	27.08	30	-2.92
	131987	1711.5	16QAM	1	0	22.13	26.63	30	-3.37
				1	14	22.49	26.99	30	-3.01
				8	4	21.58	26.08	30	-3.92
				15	0	21.42	25.92	30	-4.08
	132322	1745	16QAM	1	0	23.24	27.74	30	-2.26
				1	14	23.02	27.52	30	-2.48
				8	4	22.46	26.96	30	-3.04
				15	0	22.13	26.63	30	-3.37
	132657	1778.5	16QAM	1	0	22.78	27.28	30	-2.72
				1	14	22.59	27.09	30	-2.91
				8	4	21.78	26.28	30	-3.72
				15	0	21.72	26.22	30	-3.78
	131987	1711.5	64QAM	1	0	20.36	24.86	30	-5.14
				1	14	20.78	25.28	30	-4.72
				8	4	19.77	24.27	30	-5.73
				15	0	19.61	24.11	30	-5.89
	132322	1745	64QAM	1	0	21.50	26.00	30	-4
				1	14	21.81	26.31	30	-3.69
				8	4	20.74	25.24	30	-4.76
				15	0	20.58	25.08	30	-4.92
	132657	1778.5	64QAM	1	0	21.08	25.58	30	-4.42
				1	14	20.99	25.49	30	-4.51
				8	4	20.06	24.56	30	-5.44
				15	0	19.89	24.39	30	-5.61
	131987	1711.5	256QAM	1	0	19.27	23.77	30	-6.23
				1	14	19.14	23.64	30	-6.36
				8	4	19.08	23.58	30	-6.42
				15	0	18.94	23.44	30	-6.56
	132322	1745	256QAM	1	0	19.39	23.89	30	-6.11
				1	14	19.23	23.73	30	-6.27
				8	4	19.12	23.62	30	-6.38
				15	0	19.02	23.52	30	-6.48
	132657	1778.5	256QAM	1	0	19.45	23.95	30	-6.05
				1	14	19.39	23.89	30	-6.11
				8	4	19.15	23.65	30	-6.35
				15	0	19.05	23.55	30	-6.45

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4.5

LTE Band 66 Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	23.00	27.50	30	-2.5
				1	24	23.08	27.58	30	-2.42
				12	6	22.58	27.08	30	-2.92
				25	0	22.45	26.95	30	-3.05
	132322	1745	QPSK	1	0	23.56	28.06	30	-1.94
				1	24	22.86	27.36	30	-2.64
				12	6	23.37	27.87	30	-2.13
				25	0	23.23	27.73	30	-2.27
	132647	1777.5	QPSK	1	0	23.58	28.08	30	-1.92
				1	24	23.24	27.74	30	-2.26
				12	6	22.73	27.23	30	-2.77
				25	0	22.61	27.11	30	-2.89
	131997	1712.5	16QAM	1	0	22.46	26.96	30	-3.04
				1	24	23.15	27.65	30	-2.35
				12	6	21.73	26.23	30	-3.77
				25	0	21.64	26.14	30	-3.86
	132322	1745	16QAM	1	0	23.24	27.74	30	-2.26
				1	24	23.44	27.94	30	-2.06
				12	6	22.52	27.02	30	-2.98
				25	0	22.42	26.92	30	-3.08
	132647	1777.5	16QAM	1	0	22.62	27.12	30	-2.88
				1	24	22.36	26.86	30	-3.14
				12	6	21.88	26.38	30	-3.62
				25	0	21.72	26.22	30	-3.78
	131997	1712.5	64QAM	1	0	20.46	24.96	30	-5.04
				1	24	21.31	25.81	30	-4.19
				12	6	19.93	24.43	30	-5.57
				25	0	19.74	24.24	30	-5.76
	132322	1745	64QAM	1	0	21.52	26.02	30	-3.98
				1	24	21.82	26.32	30	-3.68
				12	6	20.72	25.22	30	-4.78
				25	0	20.54	25.04	30	-4.96
	132647	1777.5	64QAM	1	0	21.22	25.72	30	-4.28
				1	24	21.05	25.55	30	-4.45
				12	6	20.15	24.65	30	-5.35
				25	0	19.91	24.41	30	-5.59
	131997	1712.5	256QAM	1	0	19.37	23.87	30	-6.13
				1	24	19.31	23.81	30	-6.19
				12	6	19.00	23.50	30	-6.5
				25	0	18.98	23.48	30	-6.52
	132322	1745	256QAM	1	0	19.36	23.86	30	-6.14
				1	24	19.32	23.82	30	-6.18
				12	6	19.08	23.58	30	-6.42
				25	0	19.05	23.55	30	-6.45
	132647	1777.5	256QAM	1	0	19.44	23.94	30	-6.06
				1	24	19.39	23.89	30	-6.11
				12	6	19.08	23.58	30	-6.42
				25	0	19.06	23.56	30	-6.44

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4.5

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	132022	1715	QPSK	1	0	23.02	27.52	30	-2.48
				1	49	23.12	27.62	30	-2.38
				25	12	22.92	27.42	30	-2.58
				50	0	22.81	27.31	30	-2.69
	132322	1745	QPSK	1	0	23.43	27.93	30	-2.07
				1	49	23.52	28.02	30	-1.98
				25	12	23.32	27.82	30	-2.18
				50	0	23.25	27.75	30	-2.25
	132622	1775	QPSK	1	0	23.48	27.98	30	-2.02
				1	49	23.27	27.77	30	-2.23
				25	12	22.83	27.33	30	-2.67
				50	0	22.70	27.20	30	-2.8
	132022	1715	16QAM	1	0	21.99	26.49	30	-3.51
				1	49	22.78	27.28	30	-2.72
				25	12	21.98	26.48	30	-3.52
				50	0	21.94	26.44	30	-3.56
	132322	1745	16QAM	1	0	23.17	27.67	30	-2.33
				1	49	23.63	28.13	30	-1.87
				25	12	22.37	26.87	30	-3.13
				50	0	22.35	26.85	30	-3.15
	132622	1775	16QAM	1	0	22.94	27.44	30	-2.56
				1	49	22.83	27.33	30	-2.67
				25	12	21.90	26.40	30	-3.6
				50	0	21.83	26.33	30	-3.67
	132022	1715	64QAM	1	0	19.99	24.49	30	-5.51
				1	49	21.67	26.17	30	-3.83
				25	12	20.16	24.66	30	-5.34
				50	0	19.94	24.44	30	-5.56
	132322	1745	64QAM	1	0	21.31	25.81	30	-4.19
				1	49	21.85	26.35	30	-3.65
				25	12	20.57	25.07	30	-4.93
				50	0	20.48	24.98	30	-5.02
	132622	1775	64QAM	1	0	20.90	25.40	30	-4.6
				1	49	20.88	25.38	30	-4.62
				25	12	20.09	24.59	30	-5.41
				50	0	19.99	24.49	30	-5.51
	132022	1715	256QAM	1	0	19.36	23.86	30	-6.14
				1	49	19.27	23.77	30	-6.23
				25	12	19.02	23.52	30	-6.48
				50	0	18.97	23.47	30	-6.53
	132322	1745	256QAM	1	0	19.31	23.81	30	-6.19
				1	49	19.28	23.78	30	-6.22
				25	12	19.12	23.62	30	-6.38
				50	0	19.07	23.57	30	-6.43
	132622	1775	256QAM	1	0	19.30	23.80	30	-6.2
				1	49	19.21	23.71	30	-6.29
				25	12	19.11	23.61	30	-6.39
				50	0	19.06	23.56	30	-6.44

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4.5

LTE Band 66 Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	132047	1717.5	QPSK	1	0	23.07	27.57	30	-2.43
				1	74	23.48	27.98	30	-2.02
				36	18	23.26	27.76	30	-2.24
				75	0	23.15	27.65	30	-2.35
	132322	1745	QPSK	1	0	23.60	28.10	30	-1.9
				1	74	23.12	27.62	30	-2.38
				36	18	23.29	27.79	30	-2.21
				75	0	23.13	27.63	30	-2.37
	132597	1772.5	QPSK	1	0	23.54	28.04	30	-1.96
				1	74	23.41	27.91	30	-2.09
				36	18	22.81	27.31	30	-2.69
				75	0	22.72	27.22	30	-2.78
	132047	1717.5	16QAM	1	0	22.45	26.95	30	-3.05
				1	74	23.12	27.62	30	-2.38
				36	18	22.35	26.85	30	-3.15
				75	0	22.13	26.63	30	-3.37
	132322	1745	16QAM	1	0	23.03	27.53	30	-2.47
				1	74	23.22	27.72	30	-2.28
				36	18	22.37	26.87	30	-3.13
				75	0	22.30	26.80	30	-3.2
	132597	1772.5	16QAM	1	0	23.04	27.54	30	-2.46
				1	74	22.71	27.21	30	-2.79
				36	18	21.92	26.42	30	-3.58
				75	0	21.93	26.43	30	-3.57
	132047	1717.5	64QAM	1	0	19.97	24.47	30	-5.53
				1	74	21.40	25.90	30	-4.1
				36	18	20.53	25.03	30	-4.97
				75	0	20.29	24.79	30	-5.21
	132322	1745	64QAM	1	0	21.16	25.66	30	-4.34
				1	74	21.79	26.29	30	-3.71
				36	18	20.59	25.09	30	-4.91
				75	0	20.50	25.00	30	-5
	132597	1772.5	64QAM	1	0	21.27	25.77	30	-4.23
				1	74	20.96	25.46	30	-4.54
				36	18	20.13	24.63	30	-5.37
				75	0	20.08	24.58	30	-5.42
	132047	1717.5	256QAM	1	0	19.46	23.96	30	-6.04
				1	74	19.28	23.78	30	-6.22
				36	18	19.23	23.73	30	-6.27
				75	0	19.18	23.68	30	-6.32
	132322	1745	256QAM	1	0	19.38	23.88	30	-6.12
				1	74	19.31	23.81	30	-6.19
				36	18	19.35	23.85	30	-6.15
				75	0	19.23	23.73	30	-6.27
	132597	1772.5	256QAM	1	0	19.52	24.02	30	-5.98
				1	74	19.39	23.89	30	-6.11
				36	18	19.34	23.84	30	-6.16
				75	0	19.24	23.74	30	-6.26

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 4.5

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	132072	1720	QPSK	1	0	23.43	27.93	30	-2.07
				1	99	23.52	28.02	30	-1.98
				50	25	23.63	28.13	30	-1.87
				100	0	23.50	28.00	30	-2
	132322	1745	QPSK	1	0	23.70	28.20	30	-1.8
				1	99	23.18	27.68	30	-2.32
				50	25	23.41	27.91	30	-2.09
				100	0	23.26	27.76	30	-2.24
	132572	1770	QPSK	1	0	23.67	28.17	30	-1.83
				1	99	23.55	28.05	30	-1.95
				50	25	22.90	27.40	30	-2.6
				100	0	22.89	27.39	30	-2.61
	132072	1720	16QAM	1	0	22.53	27.03	30	-2.97
				1	99	22.98	27.48	30	-2.52
				50	25	22.29	26.79	30	-3.21
				100	0	22.40	26.90	30	-3.1
	132322	1745	16QAM	1	0	23.21	27.71	30	-2.29
				1	99	23.55	28.05	30	-1.95
				50	25	22.47	26.97	30	-3.03
				100	0	22.36	26.86	30	-3.14
	132572	1770	16QAM	1	0	23.70	28.20	30	-1.8
				1	99	23.00	27.50	30	-2.5
				50	25	21.96	26.46	30	-3.54
				100	0	22.02	26.52	30	-3.48
	132072	1720	64QAM	1	0	20.36	24.86	30	-5.14
				1	99	21.77	26.27	30	-3.73
				50	25	20.75	25.25	30	-4.75
				100	0	20.44	24.94	30	-5.06
	132322	1745	64QAM	1	0	21.42	25.92	30	-4.08
				1	99	22.04	26.54	30	-3.46
				50	25	20.63	25.13	30	-4.87
				100	0	20.50	25.00	30	-5
	132572	1770	64QAM	1	0	21.74	26.24	30	-3.76
				1	99	20.88	25.38	30	-4.62
				50	25	20.21	24.71	30	-5.29
				100	0	20.23	24.73	30	-5.27
	132072	1720	256QAM	1	0	19.57	24.07	30	-5.93
				1	99	19.39	23.89	30	-6.11
				50	25	19.27	23.77	30	-6.23
				100	0	19.14	23.64	30	-6.36
	132322	1745	256QAM	1	0	19.61	24.11	30	-5.89
				1	99	19.53	24.03	30	-5.97
				50	25	19.47	23.97	30	-6.03
				100	0	19.42	23.92	30	-6.08
	132572	1770	256QAM	1	0	19.58	24.08	30	-5.92
				1	99	19.34	23.84	30	-6.16
				50	25	19.29	23.79	30	-6.21
				100	0	19.27	23.77	30	-6.23

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。

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, 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 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.

Antenna gain (dBi) 3

LTE Band 71 Uplink frequency band : 663 to 698 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	133147	665.5	QPSK	1	0	22.91	25.91	33	-7.09
				1	24	22.88	25.88	33	-7.12
				12	6	22.11	25.11	33	-7.89
				25	0	22.29	25.29	33	-7.71
	133297	680.5	QPSK	1	0	23.27	26.27	33	-6.73
				1	24	22.94	25.94	33	-7.06
				12	6	22.60	25.60	33	-7.4
				25	0	22.50	25.50	33	-7.5
	133447	695.5	QPSK	1	0	23.30	26.30	33	-6.7
				1	24	23.19	26.19	33	-6.81
				12	6	23.18	26.18	33	-6.82
				25	0	22.95	25.95	33	-7.05
	133147	665.5	16QAM	1	0	21.85	24.85	33	-8.15
				1	24	22.26	25.26	33	-7.74
				12	6	21.16	24.16	33	-8.84
				25	0	21.17	24.17	33	-8.83
	133297	680.5	16QAM	1	0	22.69	25.69	33	-7.31
				1	24	22.04	25.04	33	-7.96
				12	6	21.65	24.65	33	-8.35
				25	0	21.45	24.45	33	-8.55
	133447	695.5	16QAM	1	0	22.83	25.83	33	-7.17
				1	24	22.39	25.39	33	-7.61
				12	6	22.01	25.01	33	-7.99
				25	0	21.90	24.90	33	-8.1
	133147	665.5	64QAM	1	0	20.39	23.39	33	-9.61
				1	24	20.20	23.20	33	-9.8
				12	6	19.32	22.32	33	-10.68
				25	0	19.02	22.02	33	-10.98
	133297	680.5	64QAM	1	0	21.35	24.35	33	-8.65
				1	24	20.11	23.11	33	-9.89
				12	6	19.83	22.83	33	-10.17
				25	0	19.53	22.53	33	-10.47
	133447	695.5	64QAM	1	0	21.59	24.59	33	-8.41
				1	24	20.49	23.49	33	-9.51
				12	6	20.11	23.11	33	-9.89
				25	0	19.84	22.84	33	-10.16
	133147	665.5	256QAM	1	0	19.69	22.69	33	-10.31
				1	24	18.45	21.45	33	-11.55
				12	6	18.69	21.69	33	-11.31
				25	0	18.86	21.86	33	-11.14
	133297	680.5	256QAM	1	0	17.14	20.14	33	-12.86
				1	24	16.66	19.66	33	-13.34
				12	6	16.74	19.74	33	-13.26
				25	0	16.71	19.71	33	-13.29
	133447	695.5	256QAM	1	0	16.86	19.86	33	-13.14
				1	24	17.16	20.16	33	-12.84
				12	6	16.77	19.77	33	-13.23
				25	0	16.72	19.72	33	-13.28

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi)

3

LTE Band 71 Uplink frequency band : 663 to 698 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	133172	668	QPSK	1	0	23.24	26.24	33	-6.76
				1	49	23.07	26.07	33	-6.93
				25	12	22.26	25.26	33	-7.74
				50	0	22.79	25.79	33	-7.21
	133297	680.5	QPSK	1	0	23.18	26.18	33	-6.82
				1	49	22.87	25.87	33	-7.13
				25	12	22.87	25.87	33	-7.13
				50	0	22.86	25.86	33	-7.14
	133422	693	QPSK	1	0	23.31	26.31	33	-6.69
				1	49	23.28	26.28	33	-6.72
				25	12	23.30	26.30	33	-6.7
				50	0	23.34	26.34	33	-6.66
	133172	668	16QAM	1	0	22.81	25.81	33	-7.19
				1	49	22.75	25.75	33	-7.25
				25	12	21.49	24.49	33	-8.51
				50	0	21.37	24.37	33	-8.63
	133297	680.5	16QAM	1	0	22.73	25.73	33	-7.27
				1	49	22.27	25.27	33	-7.73
				25	12	22.02	25.02	33	-7.98
				50	0	21.83	24.83	33	-8.17
	133422	693	16QAM	1	0	22.69	25.69	33	-7.31
				1	49	22.94	25.94	33	-7.06
				25	12	21.96	24.96	33	-8.04
				50	0	22.26	25.26	33	-7.74
	133172	668	64QAM	1	0	20.75	23.75	33	-9.25
				1	49	21.11	24.11	33	-8.89
				25	12	19.54	22.54	33	-10.46
				50	0	19.42	22.42	33	-10.58
	133297	680.5	64QAM	1	0	21.37	24.37	33	-8.63
				1	49	19.98	22.98	33	-10.02
				25	12	19.88	22.88	33	-10.12
				50	0	19.76	22.76	33	-10.24
	133422	693	64QAM	1	0	21.89	24.89	33	-8.11
				1	49	20.98	23.98	33	-9.02
				25	12	21.01	24.01	33	-8.99
				50	0	20.66	23.66	33	-9.34
	133172	668	256QAM	1	0	19.61	22.61	33	-10.39
				1	49	17.55	20.55	33	-12.45
				25	12	18.25	21.25	33	-11.75
				50	0	18.21	21.21	33	-11.79
	133297	680.5	256QAM	1	0	17.11	20.11	33	-12.89
				1	49	17.07	20.07	33	-12.93
				25	12	16.78	19.78	33	-13.22
				50	0	16.66	19.66	33	-13.34
	133422	693	256QAM	1	0	17.06	20.06	33	-12.94
				1	49	16.96	19.96	33	-13.04
				25	12	16.72	19.72	33	-13.28
				50	0	16.65	19.65	33	-13.35

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Antenna gain (dBi) 3

LTE Band 71 Uplink frequency band : 663 to 698 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	133197	670.5	QPSK	1	0	23.23	26.23	33	-6.77
				1	74	23.17	26.17	33	-6.83
				36	18	22.95	25.95	33	-7.05
				75	0	23.43	26.43	33	-6.57
	133297	680.5	QPSK	1	0	23.39	26.39	33	-6.61
				1	74	23.15	26.15	33	-6.85
				36	18	22.96	25.96	33	-7.04
				75	0	23.34	26.34	33	-6.66
	133397	690.5	QPSK	1	0	23.41	26.41	33	-6.59
				1	74	23.43	26.43	33	-6.57
				36	18	23.77	26.77	33	-6.23
				75	0	22.77	25.77	33	-7.23
	133197	670.5	16QAM	1	0	23.10	26.10	33	-6.9
				1	74	22.86	25.86	33	-7.14
				36	18	21.65	24.65	33	-8.35
				75	0	22.26	25.26	33	-7.74
	133297	680.5	16QAM	1	0	22.93	25.93	33	-7.07
				1	74	22.84	25.84	33	-7.16
				36	18	22.22	25.22	33	-7.78
				75	0	22.13	25.13	33	-7.87
	133397	690.5	16QAM	1	0	23.18	26.18	33	-6.82
				1	74	22.82	25.82	33	-7.18
				36	18	22.71	25.71	33	-7.29
				75	0	22.42	25.42	33	-7.58
	133197	670.5	64QAM	1	0	21.30	24.30	33	-8.7
				1	74	21.30	24.30	33	-8.7
				36	18	20.04	23.04	33	-9.96
				75	0	20.11	23.11	33	-9.89
	133297	680.5	64QAM	1	0	21.86	24.86	33	-8.14
				1	74	21.05	24.05	33	-8.95
				36	18	20.10	23.10	33	-9.9
				75	0	19.96	22.96	33	-10.04
	133397	690.5	64QAM	1	0	20.87	23.87	33	-9.13
				1	74	21.01	24.01	33	-8.99
				36	18	21.21	24.21	33	-8.79
				75	0	20.40	23.40	33	-9.6
	133197	670.5	256QAM	1	0	19.56	22.56	33	-10.44
				1	74	17.01	20.01	33	-12.99
				36	18	17.96	20.96	33	-12.04
				75	0	18.16	21.16	33	-11.84
	133297	680.5	256QAM	1	0	17.60	20.60	33	-12.4
				1	74	16.93	19.93	33	-13.07
				36	18	17.05	20.05	33	-12.95
				75	0	17.10	20.10	33	-12.9
	133397	690.5	256QAM	1	0	17.50	20.50	33	-12.5
				1	74	17.16	20.16	33	-12.84
				36	18	16.82	19.82	33	-13.18
				75	0	16.85	19.85	33	-13.15

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>. 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 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.

Antenna gain (dBi)

3

LTE Band 71 Uplink frequency band : 663 to 698 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	133222	673	QPSK	1	0	22.47	25.47	33	-7.53
				1	99	23.05	26.05	33	-6.95
				50	25	22.78	25.78	33	-7.22
				100	0	22.52	25.52	33	-7.48
	133297	680.5	QPSK	1	0	22.82	25.82	33	-7.18
				1	99	23.68	26.68	33	-6.32
				50	25	22.98	25.98	33	-7.02
				100	0	23.56	26.56	33	-6.44
	133372	688	QPSK	1	0	22.62	25.62	33	-7.38
				1	99	23.23	26.23	33	-6.77
				50	25	22.72	25.72	33	-7.28
				100	0	23.14	26.14	33	-6.86
	133222	673	16QAM	1	0	22.57	25.57	33	-7.43
				1	99	22.69	25.69	33	-7.31
				50	25	22.39	25.39	33	-7.61
				100	0	22.17	25.17	33	-7.83
	133297	680.5	16QAM	1	0	22.63	25.63	33	-7.37
				1	99	22.34	25.34	33	-7.66
				50	25	21.91	24.91	33	-8.09
				100	0	22.18	25.18	33	-7.82
	133372	688	16QAM	1	0	22.49	25.49	33	-7.51
				1	99	22.95	25.95	33	-7.05
				50	25	22.21	25.21	33	-7.79
				100	0	22.02	25.02	33	-7.98
	133222	673	64QAM	1	0	21.10	24.10	33	-8.9
				1	99	20.97	23.97	33	-9.03
				50	25	20.41	23.41	33	-9.59
				100	0	20.04	23.04	33	-9.96
	133297	680.5	64QAM	1	0	21.32	24.32	33	-8.68
				1	99	21.53	24.53	33	-8.47
				50	25	19.86	22.86	33	-10.14
				100	0	20.12	23.12	33	-9.88
	133372	688	64QAM	1	0	21.57	24.57	33	-8.43
				1	99	20.96	23.96	33	-9.04
				50	25	20.59	23.59	33	-9.41
				100	0	19.76	22.76	33	-10.24
	133222	673	256QAM	1	0	19.21	22.21	33	-10.79
				1	99	19.09	22.09	33	-10.91
				50	25	18.99	21.99	33	-11.01
				100	0	18.83	21.83	33	-11.17
	133297	680.5	256QAM	1	0	19.22	22.22	33	-10.78
				1	99	19.11	22.11	33	-10.89
				50	25	19.04	22.04	33	-10.96
				100	0	19.02	22.02	33	-10.98
	133372	688	256QAM	1	0	19.17	22.17	33	-10.83
				1	99	19.06	22.06	33	-10.94
				50	25	18.95	21.95	33	-11.05
				100	0	18.80	21.80	33	-11.2

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

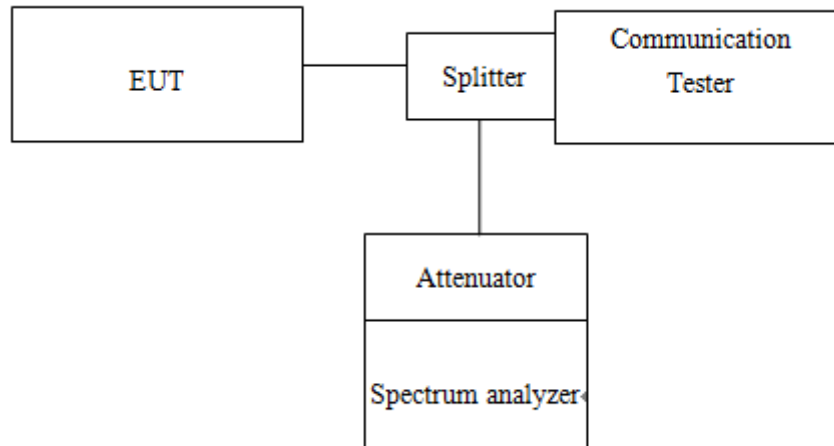
Member of SGS Group

7 OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

7.2 Test Set-up



7.3 Measurement Procedure

99% & 26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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>. 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 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.

7.4 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
Radio Communication Analyser	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Attenuator	Marvelous	MVE2213-10	RF30	11/20/2019	11/19/2020
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Splitter	Woken	DOM35LW1 A2	RF83	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A 185C	RF229	11/20/2019	11/19/2020

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/17/2020	03/16/2021

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

7.5 Measurement Result

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.14620	4.14180	4.15370	4.692	4.699	4.677
1880.00	9400	4.14430	4.14060	4.14810	4.698	4.689	4.661
1907.60	9538	4.13630	4.13550	4.12960	4.698	4.684	4.665
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.13780	4.14300	4.14220	4.704	4.687	4.697
1732.60	1413	4.13280	4.14290	4.14760	4.687	4.698	4.692
1752.60	1513	4.14090	4.13610	4.13850	4.705	4.691	4.688
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.13900	4.14440	4.13360	4.714	4.712	4.709
836.60	4183	4.14850	4.15100	4.13910	4.711	4.701	4.698
846.60	4233	4.15870	4.15860	4.15890	4.709	4.710	4.718

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>. 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 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 BAND 2 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1850.7	18607	1.0965	1.0966	1.0966	1.0905	1.239	1.239	1.238	1.238
1880.0	18900	1.0959	1.0993	1.0947	1.0902	1.239	1.247	1.242	1.236
1909.3	19193	1.0946	1.0989	1.0970	1.0904	1.241	1.243	1.234	1.236

LTE BAND 2 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1851.5	18615	2.7062	2.7068	2.7071	2.7087	3.022	3.006	3.002	3.020
1880.0	18900	2.7020	2.7055	2.7061	2.7104	3.020	3.008	3.006	3.017
1908.5	19185	2.7017	2.7059	2.7067	2.7111	3.009	2.999	3.013	3.016

LTE BAND 2 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1852.5	18625	4.5099	4.5065	4.4996	4.4960	4.992	5.015	4.968	4.922
1880.0	18900	4.5194	4.5082	4.4967	4.4993	5.023	4.957	4.977	4.954
1907.5	19175	4.5080	4.5054	4.4974	4.5004	4.965	4.997	4.966	4.941

LTE BAND 2 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1855.0	18650	9.0044	8.9735	8.9731	8.9870	9.860	9.777	9.817	9.866
1880.0	18900	9.0100	8.9798	8.9800	8.9687	9.869	9.770	9.853	9.765
1905.0	19150	9.0102	8.9808	8.9802	8.9725	9.868	9.796	9.816	9.840

LTE BAND 2 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1857.5	18675	13.453	13.445	13.462	13.449	14.681	14.600	14.674	14.520
1880.0	18900	13.476	13.471	13.492	13.479	14.749	14.702	14.708	14.570
1902.5	19125	13.482	13.466	13.478	13.488	14.645	14.755	14.718	14.720

LTE BAND 2 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1860.0	18700	17.911	17.908	17.921	17.888	19.334	19.390	19.327	19.240
1880.0	18900	17.961	17.963	17.959	17.946	19.450	19.445	19.449	19.410
1900.0	19100	17.977	17.966	17.956	17.910	19.344	19.484	19.383	19.360

LTE BAND 4 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1710.7	19957	1.0976	1.1003	1.0970	1.0890	1.238	1.243	1.235	1.236
1732.5	20175	1.0968	1.1001	1.0971	1.0898	1.246	1.244	1.236	1.237
1754.3	20393	1.0970	1.0992	1.0975	1.0984	1.244	1.243	1.239	1.250

LTE BAND 4 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1711.5	19965	2.7038	2.7030	2.7033	2.7010	3.014	2.988	3.010	3.020
1732.5	20175	2.7026	2.7053	2.7018	2.7104	3.015	3.009	3.000	3.025
1753.5	20385	2.7006	2.7051	2.7032	2.7108	3.018	3.007	3.003	3.035

LTE BAND 4 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1712.5	19957	4.5125	4.5037	4.5142	4.4950	4.991	4.977	5.001	4.950
1732.5	20175	4.5111	4.5084	4.5023	4.4959	5.021	5.005	4.994	4.932
1752.5	20375	4.5141	4.4990	4.5103	4.5040	4.996	4.981	5.000	4.982

LTE BAND 4 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1715.0	20000	9.0014	8.9766	8.9768	8.9689	9.871	9.777	9.804	9.823
1732.5	20175	8.9935	8.9765	8.9778	8.9554	9.853	9.809	9.810	9.809
1750.0	20350	9.0124	8.9836	8.9789	8.9765	9.903	9.766	9.835	9.805

LTE BAND 4 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1717.5	20025	13.472	13.460	13.467	13.477	14.734	14.730	14.525	14.590
1732.5	20175	13.488	13.459	13.435	13.452	14.720	14.688	14.688	14.680
1747.5	20325	13.490	13.463	13.454	13.486	14.584	14.731	14.726	14.770

LTE BAND 4 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1720.0	20050	17.928	17.919	17.927	17.935	19.386	19.428	19.464	19.360
1732.5	20175	17.950	17.954	17.951	17.880	19.395	19.457	19.524	19.350
1745.0	20300	17.962	17.979	17.979	17.985	19.358	19.459	19.630	19.440

LTE BAND 5 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
824.7	20407	1.0957	1.0991	1.0934	1.0885	1.239	1.246	1.236	1.232
836.5	20525	1.0976	1.0966	1.0946	1.0882	1.241	1.246	1.236	1.236
848.3	20643	1.0953	1.0992	1.0962	1.0898	1.243	1.245	1.231	1.235

LTE BAND 5 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
825.5	20415	2.6982	2.7021	2.7045	2.7054	3.021	3.002	3.004	3.002
836.5	20525	2.7039	2.7065	2.7037	2.7090	3.016	3.003	2.997	3.004
847.5	20635	2.7048	2.7072	2.7028	2.7082	3.005	3.020	2.999	3.038

LTE BAND 5 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
826.5	20425	4.5092	4.5071	4.5162	4.4878	4.986	4.980	4.981	4.930
836.5	20525	4.5257	4.5103	4.5107	4.4942	5.001	4.981	4.979	4.935
846.5	20625	4.5168	4.5096	4.5185	4.4990	5.009	5.012	4.969	4.953

LTE BAND 5 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
829.0	20450	9.0223	8.9848	8.9788	8.9645	9.880	9.839	9.805	9.730
836.5	20525	9.0315	8.9759	9.0051	8.9686	9.883	9.829	9.814	9.813
844.0	20600	9.0065	8.9862	8.9837	8.9645	9.859	9.903	9.831	9.774

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>. 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 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 BAND 7 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2502.5	20775	4.5149	4.5107	4.4944	4.4939	5.016	4.980	4.957	4.939
2535.0	21100	4.5113	4.5044	4.5112	4.4946	5.006	4.997	4.995	4.933
2567.5	21425	4.5133	4.5002	4.5107	4.4898	4.999	4.974	4.985	4.950

LTE BAND 7 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2507.5	20825	13.498	13.467	13.456	13.469	14.810	14.776	14.581	14.680
2535.0	21100	13.454	13.441	13.433	13.440	14.695	14.680	14.726	14.700
2562.5	21375	13.449	13.447	13.447	13.400	14.669	14.651	14.690	14.500

LTE BAND 12 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
699.7	23017	1.0975	1.0975	1.0965	1.0886	1.245	1.241	1.238	1.232
707.5	23095	1.0978	1.0992	1.0963	1.0909	1.244	1.244	1.241	1.229
715.3	23173	1.0952	1.0985	1.0974	1.0893	1.237	1.248	1.242	1.228

LTE BAND 12 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
701.5	23035	4.5147	4.5050	4.5070	4.4951	4.997	4.997	4.980	4.929
707.5	23095	4.5147	4.5062	4.5118	4.4982	4.977	4.948	4.989	4.932
713.5	23155	4.5180	4.5027	4.5136	4.4946	5.023	4.976	4.986	4.943

LTE BAND 13 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
779.5	23205	4.4933	4.4936	4.4959	4.4844	4.978	4.969	4.964	4.898
782.0	23230	4.5023	4.5081	4.5157	4.5010	4.998	5.000	4.999	4.943
784.5	23255	4.5036	4.5051	4.5075	4.4967	5.002	5.009	4.998	4.955

LTE BAND 14 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
790.5	23305	4.5105	4.5029	4.5112	4.4902	4.995	4.941	4.968	4.919
793.0	23330	4.4994	4.5036	4.5087	4.4880	4.968	4.990	4.986	4.919
795.5	23355	4.4895	4.5040	4.5140	4.4986	4.871	4.984	4.970	4.923

LTE BAND 25 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1850.7	26047	1.0978	1.0915	1.0930	1.0913	1.248	1.233	1.229	1.236
1882.5	26365	1.0965	1.0931	1.0919	1.0888	1.246	1.240	1.232	1.246
1914.3	26683	1.0957	1.0914	1.0922	1.0910	1.237	1.240	1.234	1.238

LTE BAND 25 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1852.5	26065	4.5015	4.4949	4.5069	4.4968	5.011	4.981	4.983	4.942
1882.5	26365	4.5032	4.4917	4.5039	4.4951	5.012	4.984	4.950	4.969
1912.5	26665	4.5003	4.4870	4.5093	4.5074	5.000	4.945	4.933	4.941

LTE BAND 25 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1857.5	26115	13.470	13.452	13.451	13.423	14.580	14.642	14.611	14.620
1882.5	26365	13.473	13.474	13.450	13.479	14.625	14.749	14.708	14.560
1907.5	26615	13.431	13.458	13.448	13.453	14.677	14.700	14.659	14.640

LTE BAND 7 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2505.0	20800	9.0096	8.9865	8.9761	8.9548	9.829	9.830	9.805	9.759
2535.0	21100	9.0039	8.9729	8.9653	8.9487	9.900	9.781	9.808	9.820
2565.0	21400	8.9978	8.9821	8.9696	8.9456	9.852	9.770	9.827	9.767

LTE BAND 7 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2510.0	20850	17.966	17.988	17.958	17.926	19.468	19.547	19.520	19.400
2535.0	21100	17.917	17.925	17.896	17.878	19.350	19.427	19.552	19.380
2560.0	21350	17.963	17.963	17.967	17.917	19.415	19.489	19.589	19.350

LTE BAND 12 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
700.5	23025	2.7031	2.7029	2.7057	2.7083	2.997	3.001	2.991	3.030
707.5	23095	2.6993	2.7033	2.7017	2.7054	3.012	3.003	3.016	3.011
714.5	23165	2.7011	2.7039	2.7012	2.7065	3.019	3.009	2.999	3.009

LTE BAND 12 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
704.0	23060	8.9822	8.9673	8.9803	8.9859	9.883	9.774	9.817	9.823
707.5	23095	8.9992	8.9833	8.9864	8.9742	9.868	9.775	9.833	9.826
711.0	23130	9.0090	8.9671	8.9708	8.9692	9.868	9.832	9.819	9.804

LTE BAND 13 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
782.0	23230	9.000	8.948	8.964	8.947	9.818	9.728	9.800	9.728

LTE BAND 14 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
793.0	23330	9.018	8.957	8.985	8.958	9.887	9.799	9.818	9.762

LTE BAND 25 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1851.5	26055	2.7031	2.6951	2.6973	2.7096	3.024	2.999	3.010	3.020
1882.5	26365	2.7038	2.6961	2.6997	2.7069	2.991	3.003	2.997	2.987
1913.5	26675	2.6980	2.6961	2.6963	2.7001	3.002	2.988	2.994	3.006

LTE BAND 25 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1855.0	26090	8.9742	8.9478	8.9722	8.9606	9.767	9.744	9.808	9.741
1882.5	26365	9.0061	8.9509	8.9779	8.9633	9.789	9.773	9.795	9.805
1910.0	26640	8.9766	8.9337	8.9593	8.9607	9.797	9.767	9.782	9.703

LTE BAND 25 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1860.0	26140	17.8920	17.8930	17.8910	17.8790	19.371	19.391	19.450	19.350
1882.5	26365	17.9810	17.9600	17.9680	17.9320	19.420	19.512	19.663	19.280
1905.0	26590	17.9100	17.9380	17.9350	17.9590	19.426	19.407	19.507	19.420

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>. 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

LTE BAND 26 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
824.7	26797	1.0932	1.0965	1.0945	1.0905	1.240	1.237	1.233	1.233
836.5	26915	1.0943	1.0972	1.0967	1.0902	1.235	1.239	1.231	1.234
848.3	27033	1.0940	1.0984	1.0976	1.0894	1.238	1.239	1.235	1.227

LTE BAND 26 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
825.5	26805	2.6953	2.6982	2.7014	2.7083	2.990	3.009	2.997	3.003
836.5	26915	2.7027	2.7027	2.7019	2.7113	2.996	3.001	3.002	3.004
847.5	27025	2.7001	2.7010	2.7036	2.7115	3.002	3.028	3.005	3.004

LTE BAND 26 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
826.5	26815	4.5005	4.4975	4.5073	4.4910	4.992	4.968	4.984	4.924
836.5	26915	4.5027	4.5057	4.5150	4.4987	4.978	4.955	4.983	4.946
846.5	27015	4.5092	4.5125	4.5085	4.4998	5.001	5.014	5.015	4.948

LTE BAND 26 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
829.0	26840	8.9960	8.9467	8.9586	8.9603	9.787	9.798	9.783	9.776
836.5	26915	8.9969	8.9692	8.9914	8.9555	9.835	9.730	9.806	9.766
844.0	26990	9.0243	8.9786	8.9874	8.9628	9.909	9.863	9.833	9.826

LTE BAND 26 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
831.5	26865	13.502	13.490	13.465	13.451	14.628	14.792	14.712	14.650
836.5	26915	13.500	13.481	13.467	13.363	14.776	14.813	14.692	14.190
841.5	26965	13.520	13.463	13.460	13.431	16.127	14.757	14.736	14.720

LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
814.7	26697	1.0948	1.0965	1.0945	1.0883	1.238	1.240	1.238	1.233
819.0	26740	1.0936	1.0971	1.0956	1.0877	1.231	1.234	1.237	1.234
823.3	26783	1.0938	1.0985	1.0943	1.0906	1.246	1.232	1.239	1.220

LTE BAND 26 for part 90S Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
815.5	26705	2.7023	2.7005	2.6982	2.7070	2.994	3.010	2.993	3.030
819.0	26740	2.6990	2.7035	2.7053	2.7002	2.993	3.015	2.993	3.020
822.5	26775	2.6966	2.6988	2.7012	2.7008	2.990	3.007	2.997	3.031

LTE BAND 26 for part 90S Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
816.5	26715	4.5012	4.5070	4.5118	4.4920	5.003	4.985	4.966	4.954
819.0	26740	4.4984	4.5072	4.5166	4.4928	4.995	4.999	4.992	4.951
821.5	26765	4.5018	4.5028	4.5118	4.4812	5.012	4.989	4.961	4.919

LTE BAND 26 for part 90S Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
819.0	26740	9.0126	8.9766	9.0067	8.9674	9.833	9.783	9.827	9.789

LTE BAND 30 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2307.5	27685	4.5063	4.5098	4.5174	4.4957	4.990	4.973	5.019	4.932
2310.0	27710	4.5087	4.5102	4.5148	4.5044	4.972	5.004	5.020	4.963
2312.5	27735	4.5042	4.5004	4.5160	4.5021	4.969	4.975	5.008	4.943

LTE BAND 30 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	QPSK	QPSK	16QAM	64QAM	16QAM
2310.0	27710	8.9717	8.9762	8.9856	8.9843	9.756	9.848	9.881	9.881

LTE BAND 41 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2498.5	39675	4.5137	4.5009	4.4999	4.4948	5.028	4.980	5.004	5.055
2593.0	40620	4.5089	4.5072	4.4930	4.4933	4.979	4.974	4.945	5.015
2687.5	41565	4.5067	4.5075	4.4960	4.49650	4.989	4.995	4.955	4.482

LTE BAND 41 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2501.0	39700	8.9867	8.9664	8.9733	8.9750	9.745	9.783	9.826	9.786
2593.0	40620	8.9611	8.9586	8.9682	8.9709	9.729	9.708	9.783	9.738
2685.0	41540	8.9890	8.9618	8.9734	8.9653	9.764	9.692	9.812	9.755

LTE BAND 41 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2503.5	39725	13.482	13.511	13.471	13.470	14.689	14.746	14.717	14.540
2593.0	40620	13.476	13.486	13.448	13.491	14.662	14.690	14.698	14.710
2682.5	41515	13.507	13.502	13.485	13.481	14.592	14.771	14.688	14.610

LTE BAND 41 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2506.0	39750	17.950	17.946	17.944	17.895	20.594	24.570	19.498	19.250
2593.0	40620	17.937	17.929	17.923	17.913	19.545	19.519	19.605	19.250
2680.0	41490	17.919	17.926	17.925	17.913	19.288	19.440	19.503	19.260

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>. 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 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 BAND 66 Channel bandwidth: 1.4MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1710.7	131979	1.0936	1.0972	1.0957	1.0897	1.241	1.240	1.237	1.233
1745.0	132322	1.0918	1.0993	1.0983	1.0885	1.232	1.243	1.237	1.229
1779.3	132665	1.0938	1.0974	1.0966	1.0895	1.240	1.239	1.236	1.234

LTE BAND 66 Channel bandwidth: 3MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1711.5	131987	2.6985	2.6995	2.7061	2.7090	2.995	3.015	2.984	3.031
1745.0	132322	2.7012	2.6975	2.7031	2.7061	2.998	3.011	2.992	3.022
1778.5	132657	2.6979	2.6982	2.7026	2.7104	3.002	3.009	2.988	3.032

LTE BAND 66 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1712.5	131997	4.5005	4.5025	4.5115	4.4983	5.012	4.955	4.981	4.948
1745.0	132322	4.5026	4.5013	4.5126	4.4949	5.008	4.945	4.993	4.930
1777.5	132647	4.4952	4.5037	4.5077	4.4971	4.997	4.968	4.943	4.949

LTE BAND 66 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1715.0	132022	9.0124	8.9538	8.9767	8.9760	9.825	9.756	9.829	9.791
1745.0	132322	9.0136	8.9643	8.9876	8.9692	9.796	9.747	9.837	9.793
1775.0	132622	8.9825	8.9625	8.9857	8.9801	9.846	9.751	9.822	9.826

LTE BAND 66 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1717.5	132047	13.4700	13.4570	13.4380	13.4650	14.638	14.743	14.653	14.720
1745.0	132322	13.4690	13.4790	13.4620	13.4880	14.664	14.781	14.741	14.600
1772.5	132597	13.5000	13.4710	13.4620	13.4860	14.740	14.850	14.764	14.700

LTE BAND 66 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1720.0	132072	17.8880	17.9350	17.9210	17.9170	19.452	19.410	19.616	19.340
1745.0	132322	17.9500	17.9840	17.9670	17.9890	19.455	19.518	19.632	19.560
1770.0	132572	17.9200	17.9610	17.9500	17.9310	19.378	19.520	19.498	19.470

LTE BAND 71 Channel bandwidth: 5MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
665.5	133147	4.4565	4.4985	4.4997	4.4864	4.874	4.900	4.909	4.937
680.5	133297	4.4810	4.4735	4.4738	4.4898	4.850	4.901	4.873	4.935
695.5	133447	4.5309	4.4908	4.5140	4.4883	4.874	4.914	4.801	4.929

LTE BAND 71 Channel bandwidth: 10MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
688.0	133172	8.9221	8.9511	8.9695	8.9826	9.700	9.718	9.746	9.756
680.5	133297	8.9573	8.9679	8.9547	8.9631	9.537	9.721	9.774	9.709
693.0	133422	8.9663	8.9514	8.9909	8.9481	9.770	9.661	9.568	9.761

LTE BAND 71 Channel bandwidth: 15MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
670.5	133197	13.465	13.484	13.467	13.4550	14.470	14.450	14.290	14.610
680.5	133297	13.432	13.508	13.429	13.4460	14.230	14.670	14.380	14.230
690.5	133397	13.421	13.465	13.409	13.4590	14.470	14.380	14.250	14.600

LTE BAND 71 Channel bandwidth: 20MHz									
Freq. (MHz)	CH	99% BW (MHz)				26 dB BW (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
673.0	133222	17.893	17.868	17.912	17.9020	19.200	19.210	18.900	19.210
680.5	133297	17.966	17.899	17.897	17.9100	19.280	19.130	19.130	19.330
688.0	133372	17.944	17.998	17.900	17.9330	19.080	19.120	19.080	19.220

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>. 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 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.

SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

WCDMA B2 LowCH9262-1852.4



HSDPA B2 LowCH9262-1852.4



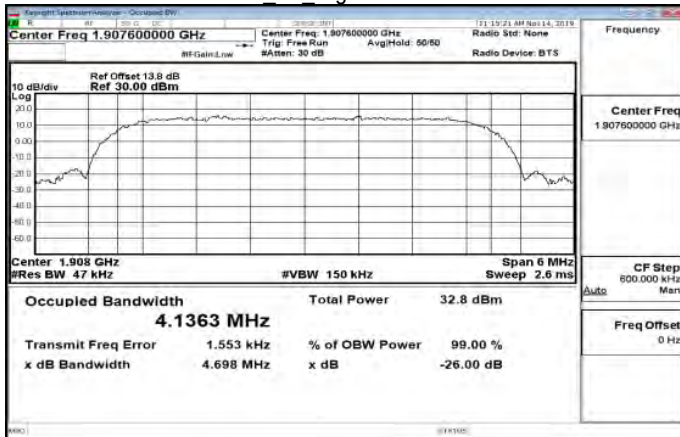
WCDMA B2 MidCH9400-1880



HSDPA B2 MidCH9400-1880



WCDMA B2 HighCH9538-1907.6



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.

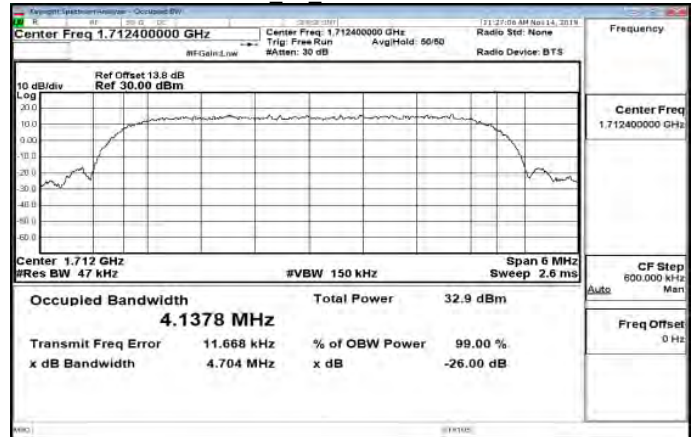
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

HSUPA B2 LowCH9262-1852.4



WCDMA B4 LowCH1312-1712.4



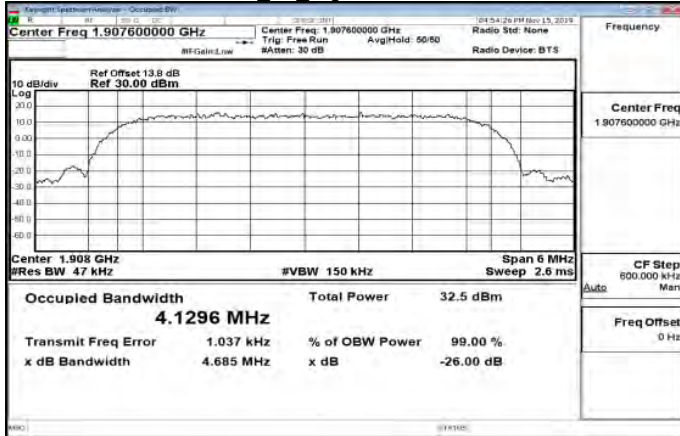
HSUPA B2 MidCH9400-1880



WCDMA B4 MidCH1413-1732.6



HSUPA B2 HighCH9538-1907.6



WCDMA B4 HighCH1513-1752.6



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>. 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 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.

HSDPA B4 LowCH1312-1712.4



HSUPA B4 LowCH1312-1712.4



HSDPA B4 MidCH1413-1732.6



HSUPA B4 MidCH1413-1732.6



HSDPA B4 HighCH1513-1752.6



HSUPA B4 HighCH1513-1752.6

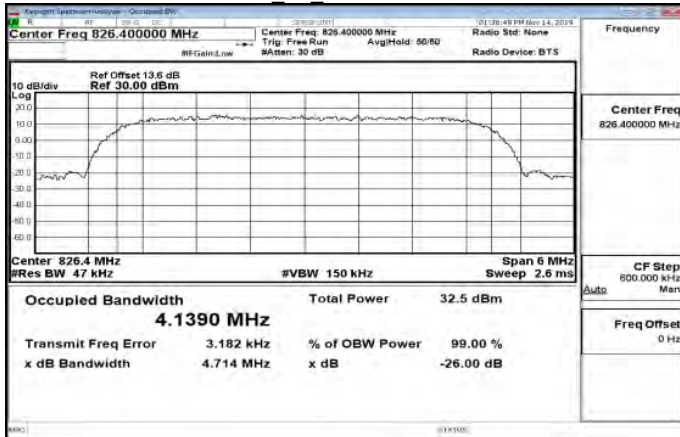


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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>. 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 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.

WCDMA B5 LowCH4132-826.4



HSDPA B5 LowCH4132-826.4



WCDMA B5 MidCH4183-836.6



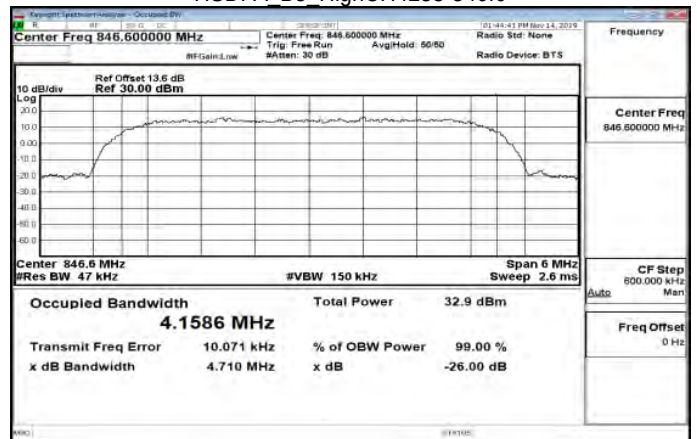
HSDPA B5 MidCH4183-836.6



WCDMA B5 HighCH4233-846.6



HSDPA B5 HighCH4233-846.6

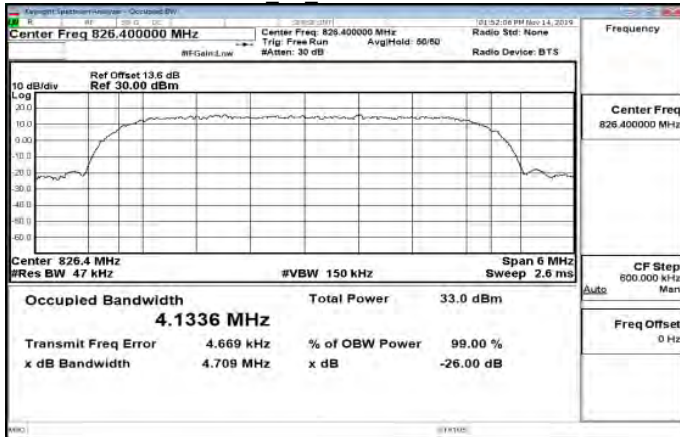


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

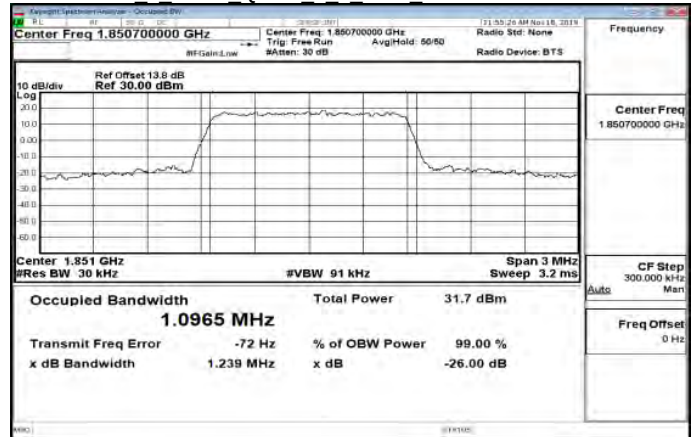
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

HSUPA B5 LowCH4132-826.4



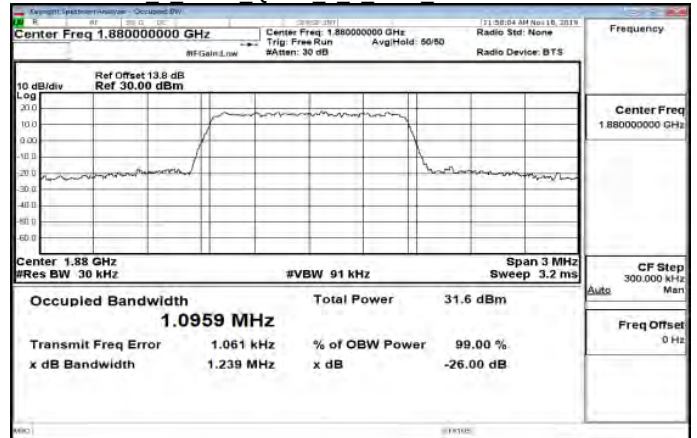
Band2 1 4MHz QPSK 6 0 Main LowCH18607-1850.7



HSUPA B5 MidCH4183-836.6



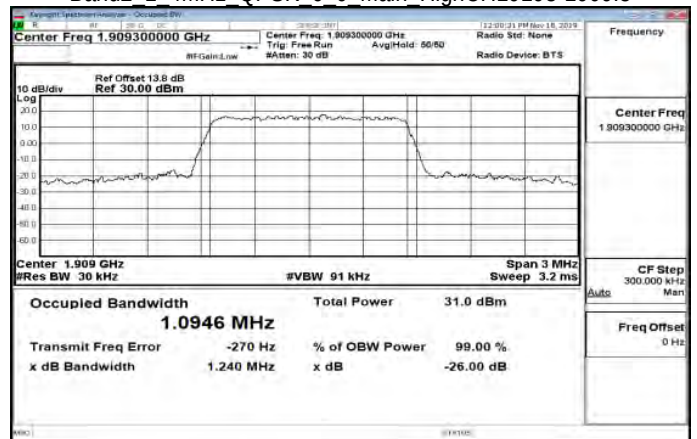
Band2 1 4MHz QPSK 6 0 Main MidCH18900-1880



HSUPA B5 HighCH4233-846.6



Band2 1 4MHz QPSK 6 0 Main HighCH19193-1909.3

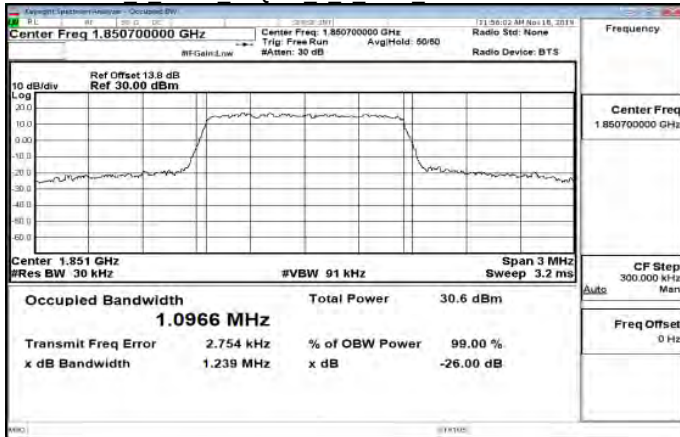


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

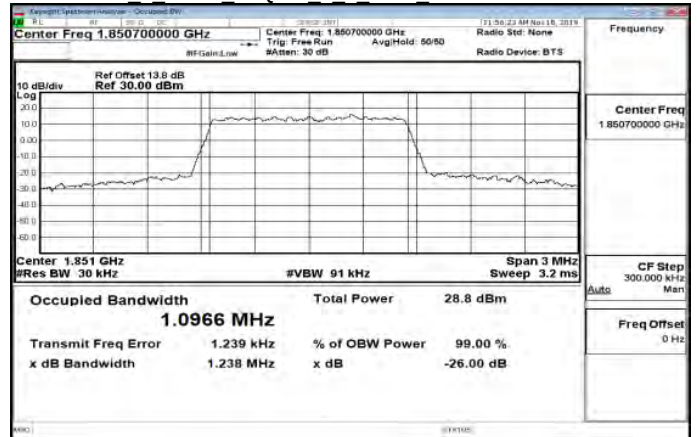
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

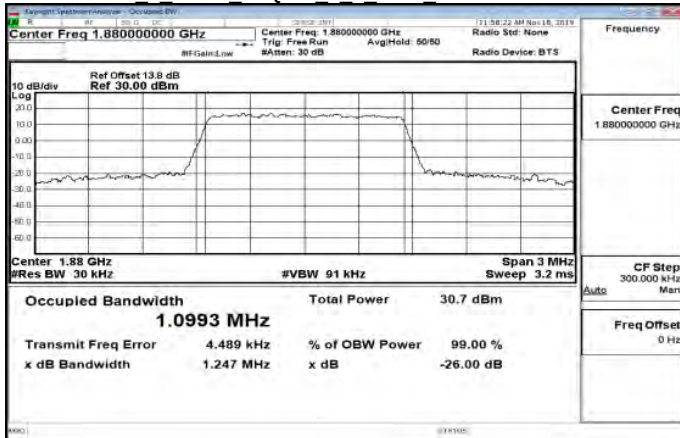
Band2 1 4MHz 16QAM 6 0 Main LowCH18607-1850.7



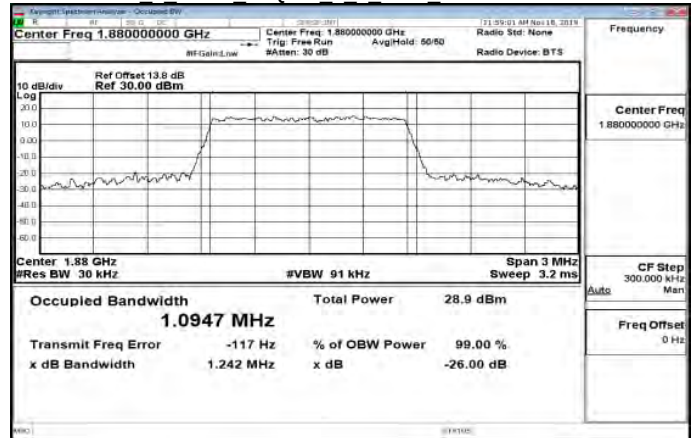
Band2 1 4MHz 64QAM 6 0 Main LowCH18607-1850.7



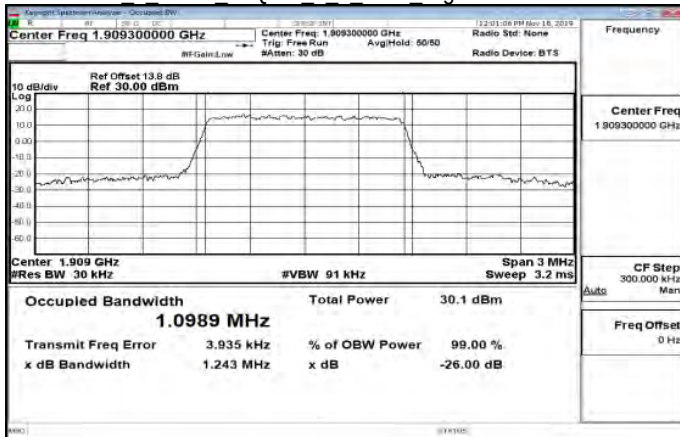
Band2 1 4MHz 16QAM 6 0 Main MidCH18900-1880



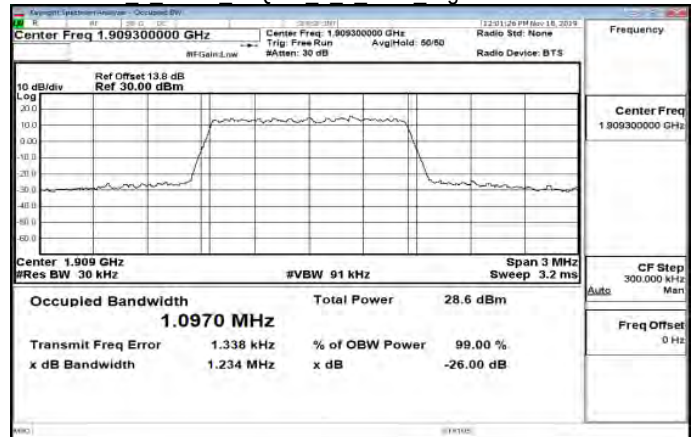
Band2 1 4MHz 64QAM 6 0 Main MidCH18900-1880



Band2 1 4MHz 16QAM 6 0 Main HighCH19193-1909.3



Band2 1 4MHz 64QAM 6 0 Main HighCH19193-1909.3

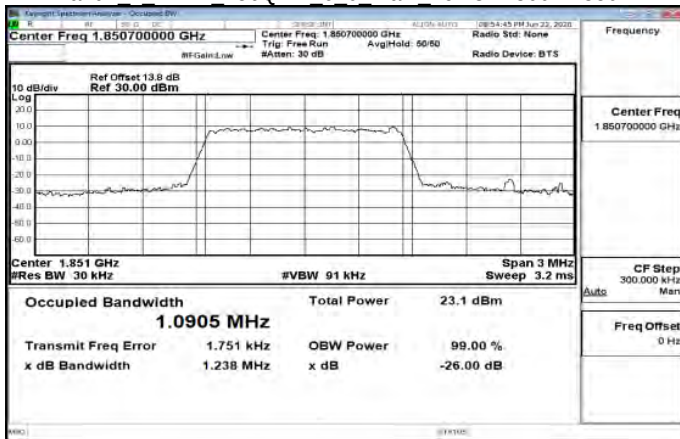


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

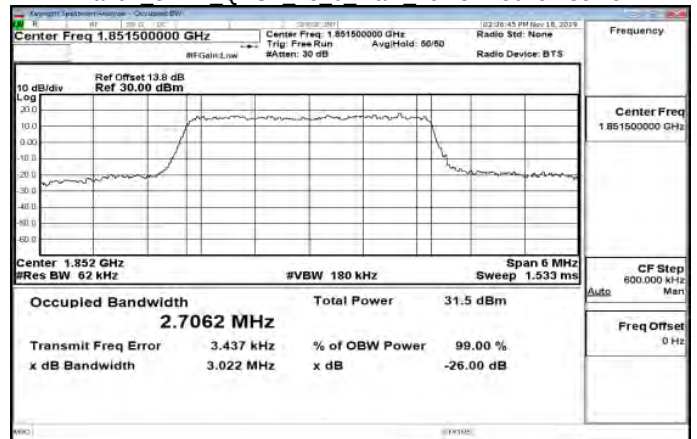
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

Band2 1 4MHz 256QAM 6 0 Main LowCH18607-1850.7



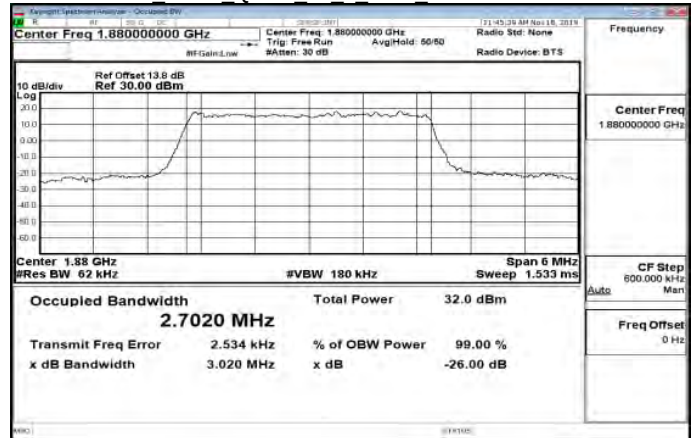
Band2 3MHz QPSK 15 0 Main LowCH18615-1851.5



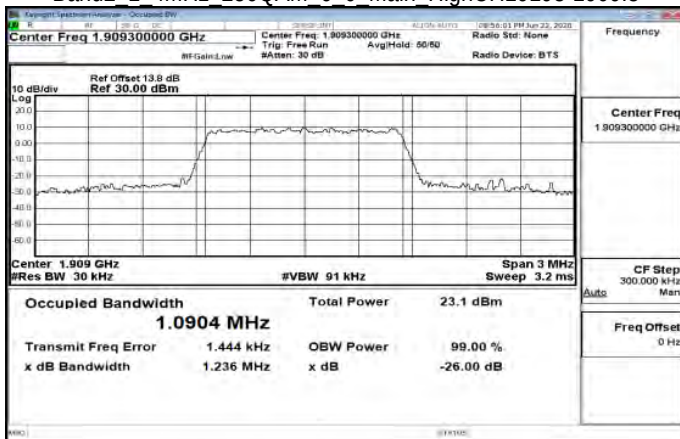
Band2 1 4MHz 256QAM 6 0 Main MidCH18900-1880



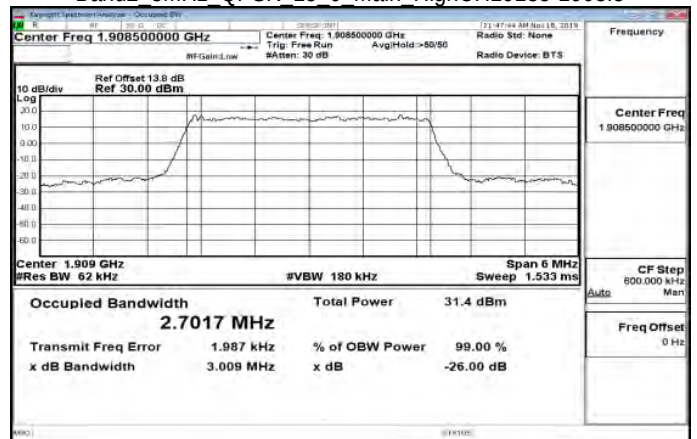
Band2 3MHz QPSK 15 0 Main MidCH18900-1880



Band2 1 4MHz 256QAM 6 0 Main HighCH19193-1909.3



Band2 3MHz QPSK 15 0 Main HighCH19185-1908.5

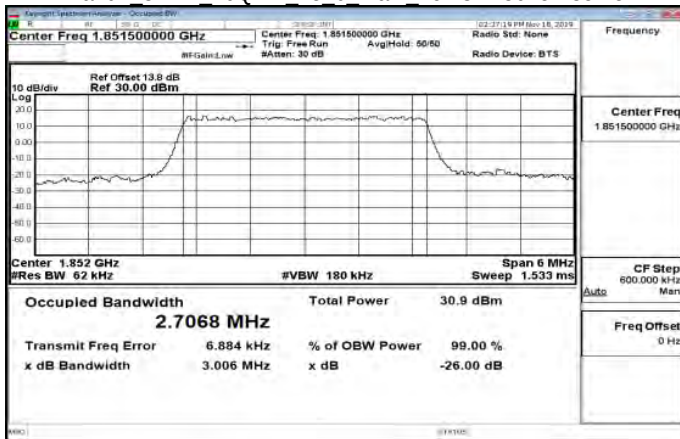


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

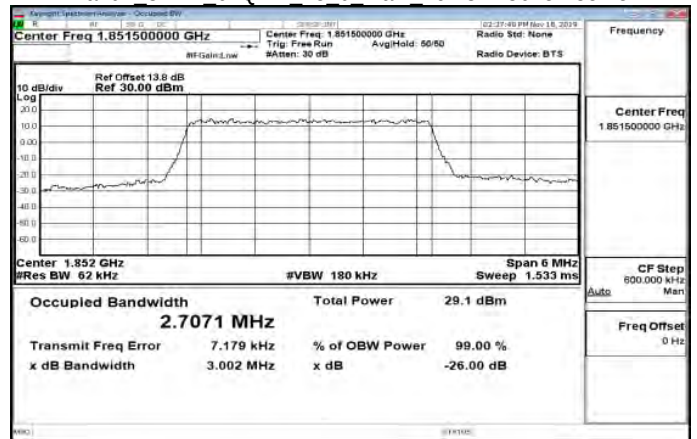
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

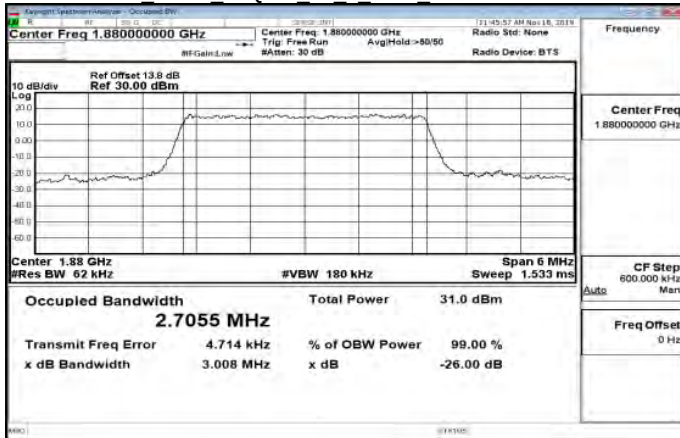
Band2 3MHz 16QAM 15 0 Main LowCH18615-1851.5



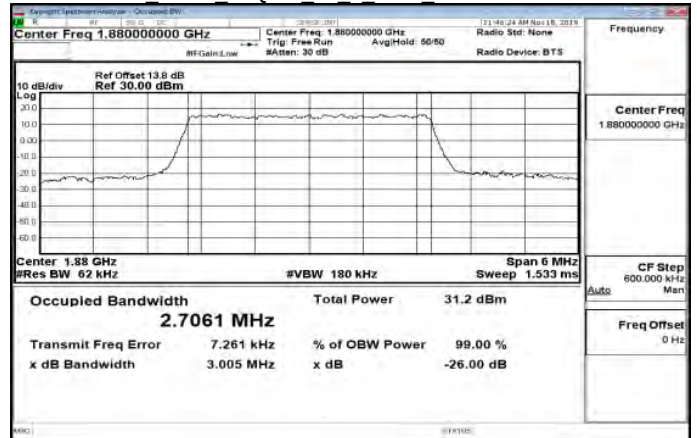
Band2 3MHz 64QAM 15 0 Main LowCH18615-1851.5



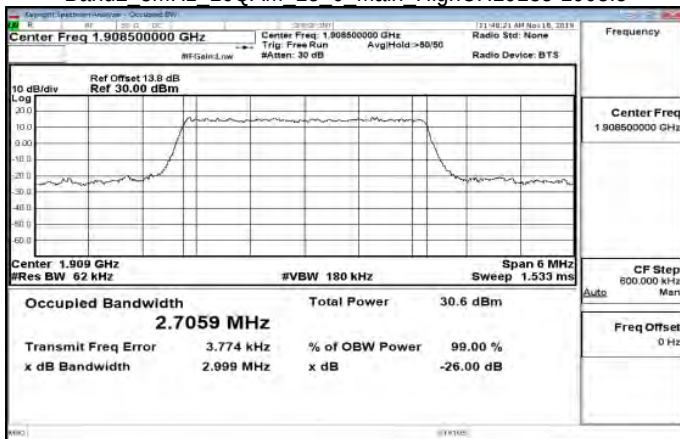
Band2 3MHz 16QAM 15 0 Main MidCH18900-1880



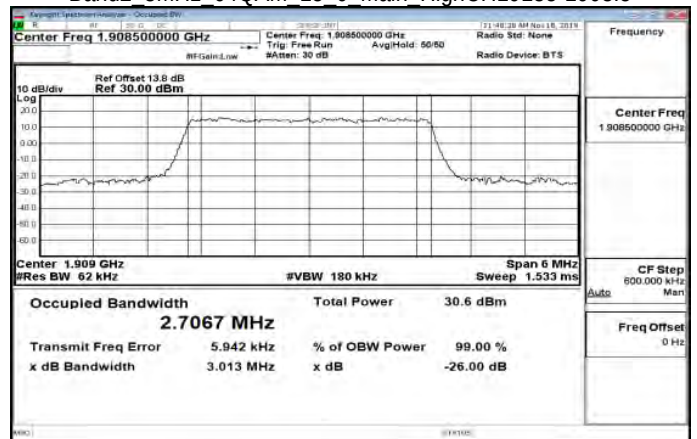
Band2 3MHz 64QAM 15 0 Main MidCH18900-1880



Band2 3MHz 16QAM 15 0 Main HighCH19185-1908.5



Band2 3MHz 64QAM 15 0 Main HighCH19185-1908.5



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.

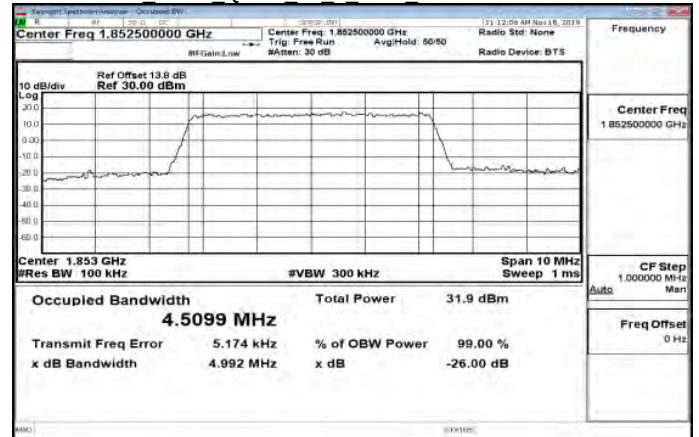
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

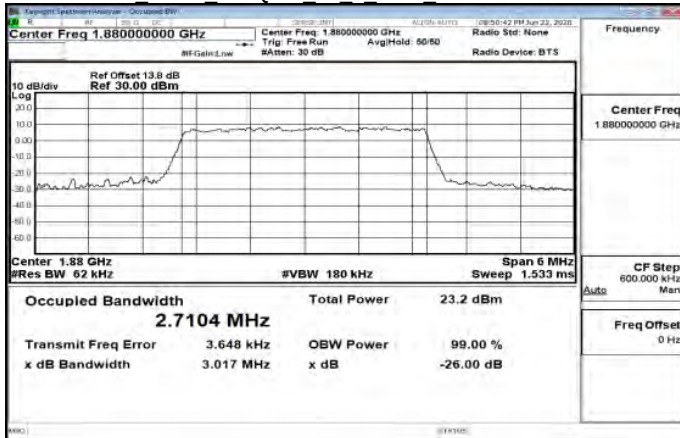
Band2 3MHz 256QAM 15 0 Main LowCH18615-1851.5



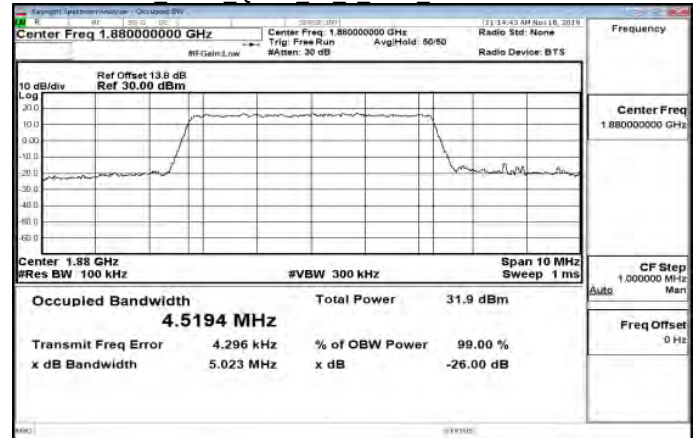
Band2 5MHz QPSK 25 0 Main LowCH18625-1852.5



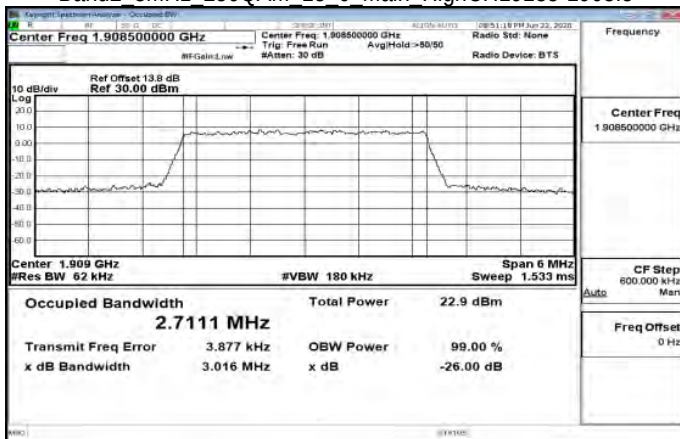
Band2 3MHz 256QAM 15 0 Main MidCH18900-1880



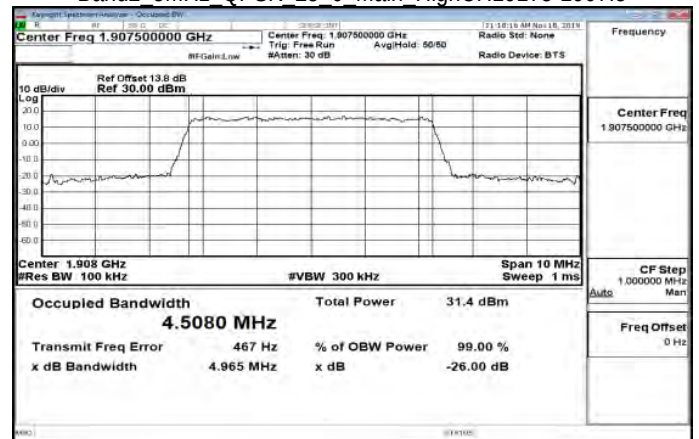
Band2 5MHz QPSK 25 0 Main MidCH18900-1880



Band2 3MHz 256QAM 15 0 Main HighCH19185-1908.5



Band2 5MHz QPSK 25 0 Main HighCH19175-1907.5

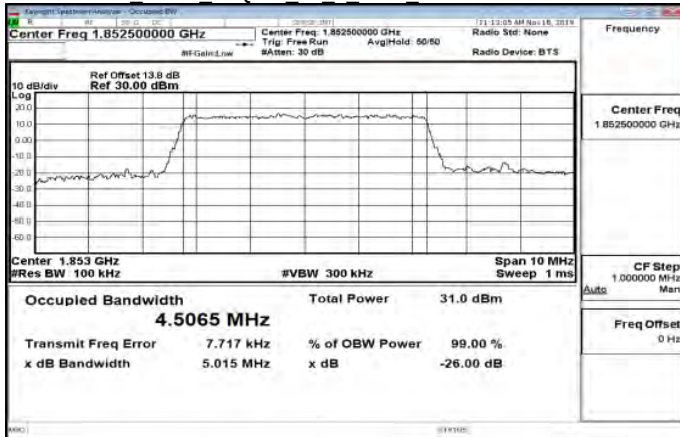


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

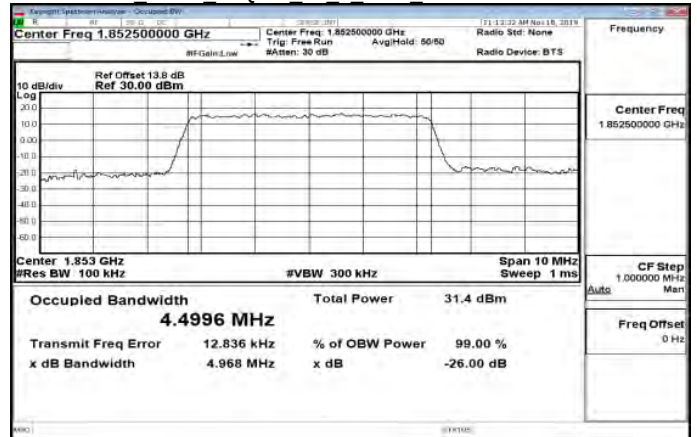
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

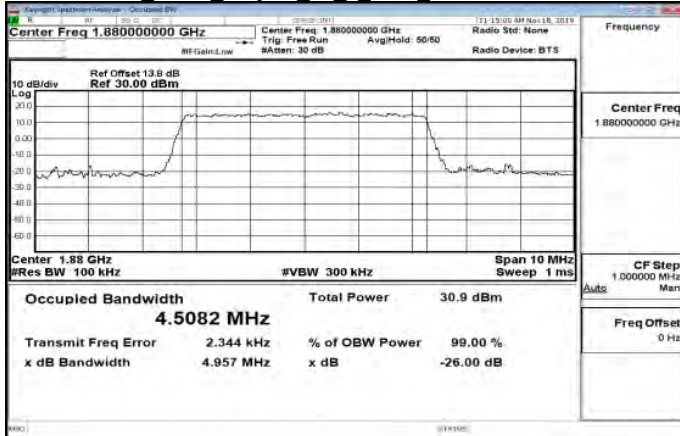
Band2 5MHz 16QAM 25 0 Main LowCH18625-1852.5



Band2 5MHz 64QAM 25 0 Main LowCH18625-1852.5



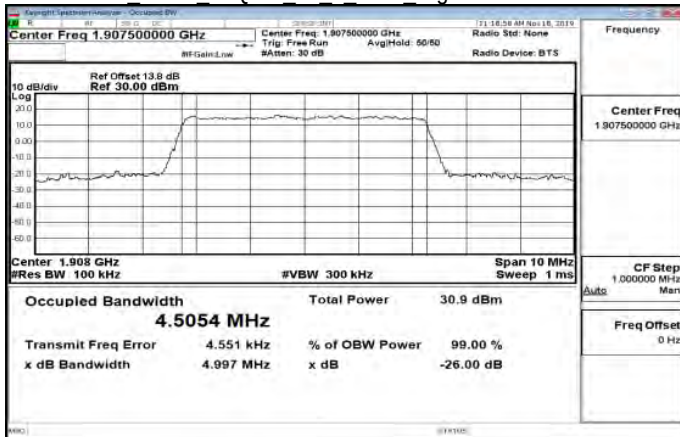
Band2 5MHz 16QAM 25 0 Main MidCH18900-1880



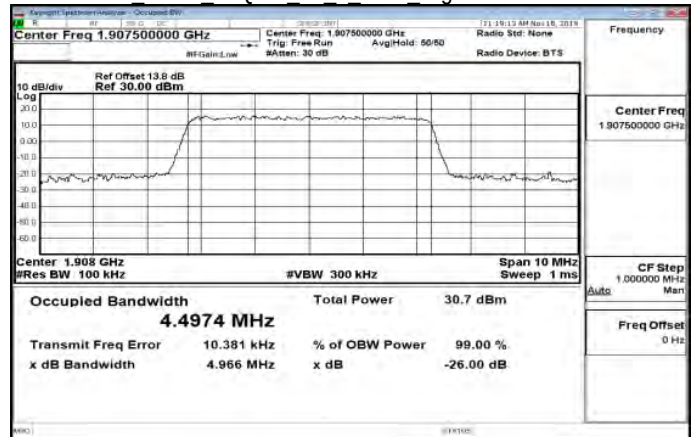
Band2 5MHz 64QAM 25 0 Main MidCH18900-1880



Band2 5MHz 16QAM 25 0 Main HighCH19175-1907.5



Band2 5MHz 64QAM 25 0 Main HighCH19175-1907.5



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.

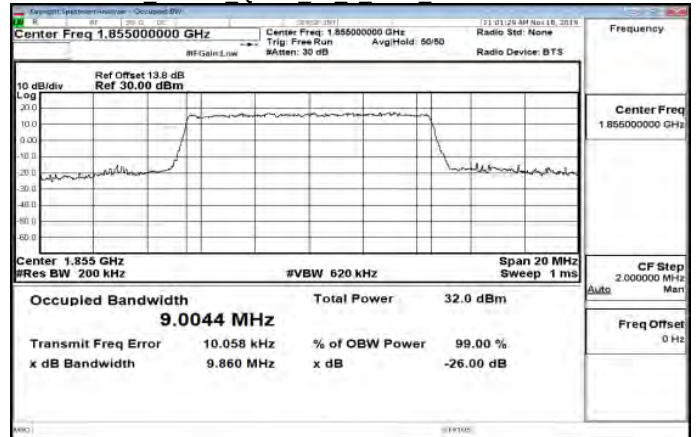
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

Band2 5MHz 256QAM 25 0 Main LowCH18625-1852.5



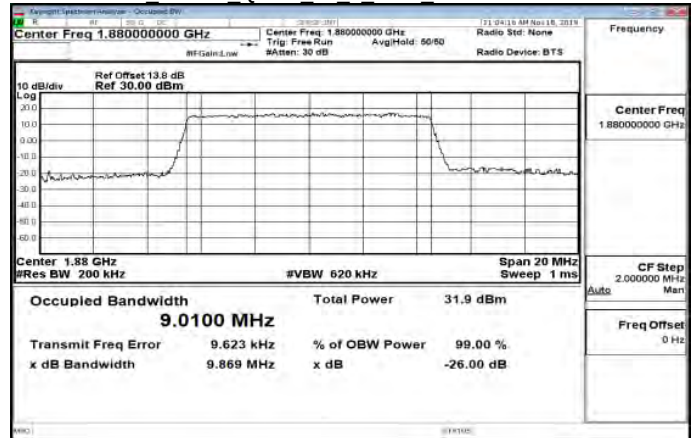
Band2 10MHz QPSK 50 0 Main LowCH18650-1855



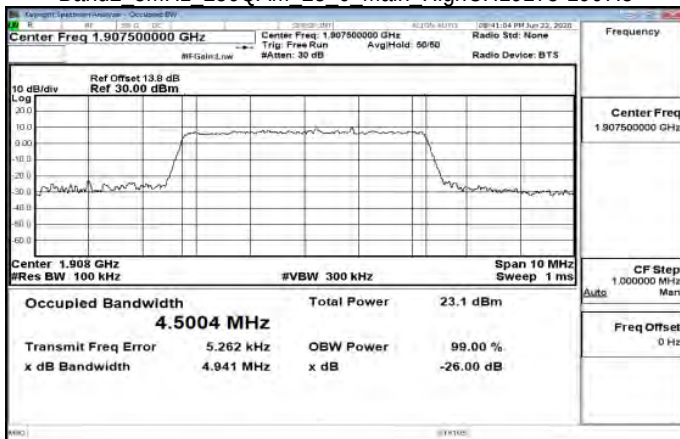
Band2 5MHz 256QAM 25 0 Main MidCH18900-1880



Band2 10MHz QPSK 50 0 Main MidCH18900-1880



Band2 5MHz 256QAM 25 0 Main HighCH19175-1907.5



Band2 10MHz QPSK 50 0 Main HighCH19150-1905

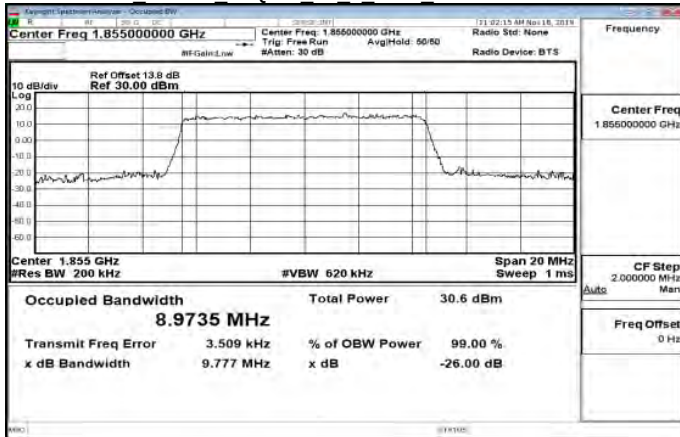


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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>. 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 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.

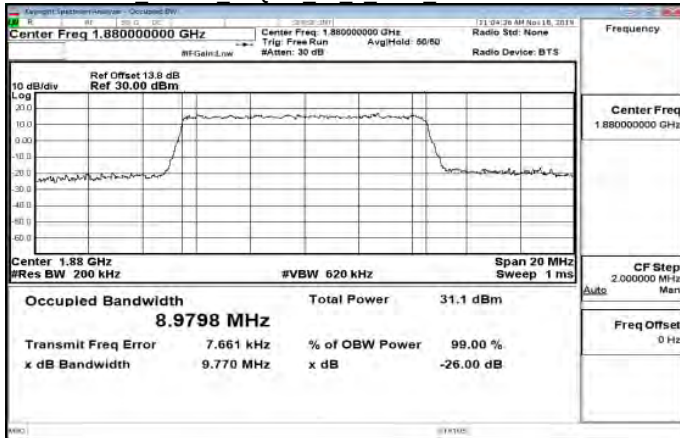
Band2 10MHz 16QAM 50 0 Main LowCH18650-1855



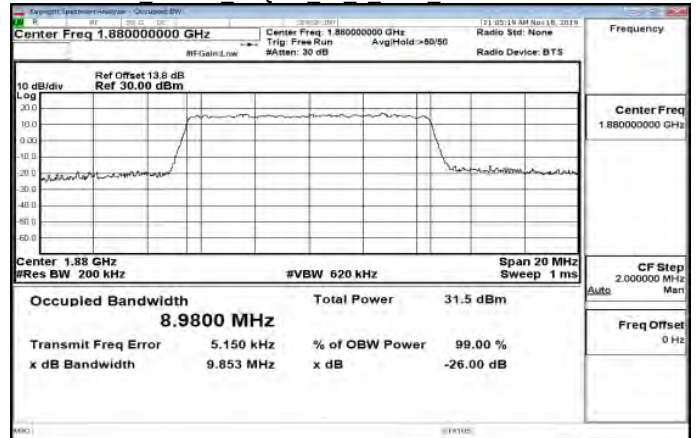
Band2 10MHz 64QAM 50 0 Main LowCH18650-1855



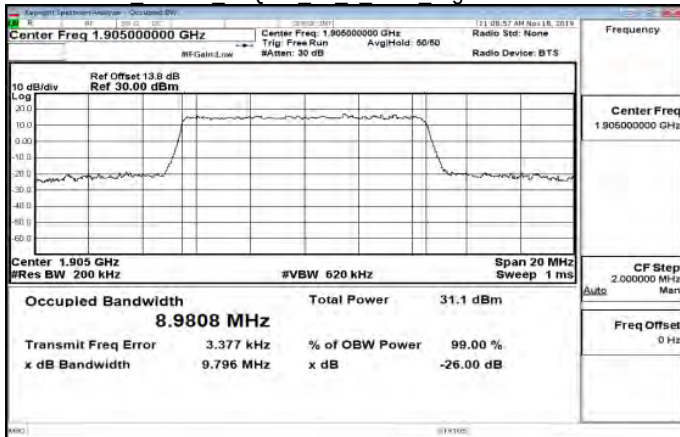
Band2 10MHz 16QAM 50 0 Main MidCH18900-1880



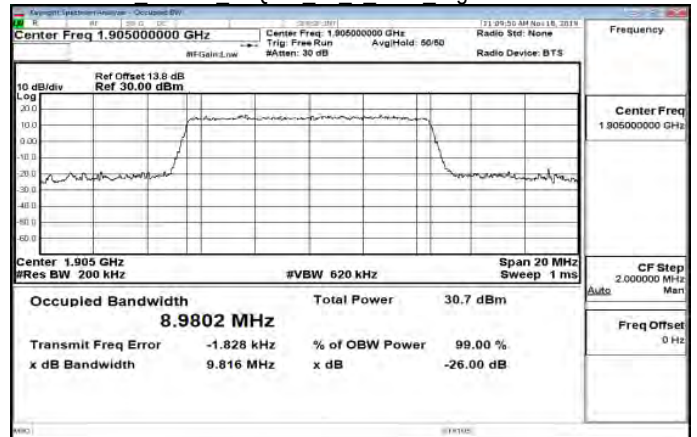
Band2 10MHz 64QAM 50 0 Main MidCH18900-1880



Band2 10MHz 16QAM 50 0 Main HighCH19150-1905



Band2 10MHz 64QAM 50 0 Main HighCH19150-1905



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>. 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 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.

Band2 10MHz 256QAM 50 0 Main LowCH18650-1855



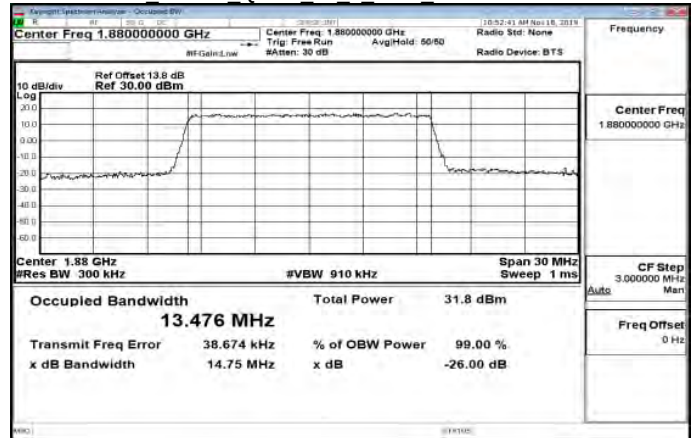
Band2 15MHz QPSK 75 0 Main LowCH18675-1857.5



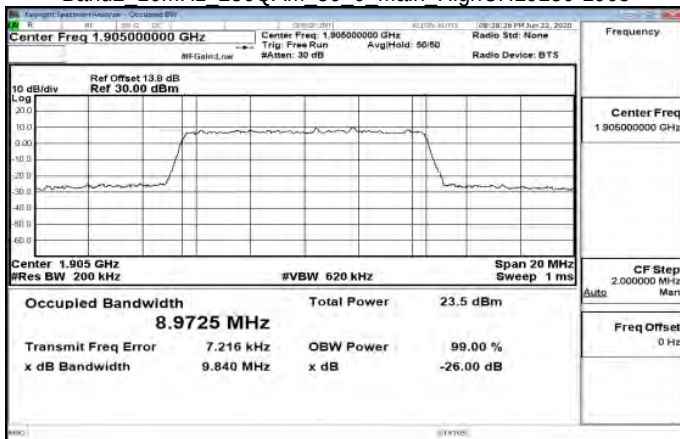
Band2 10MHz 256QAM 50 0 Main MidCH18900-1880



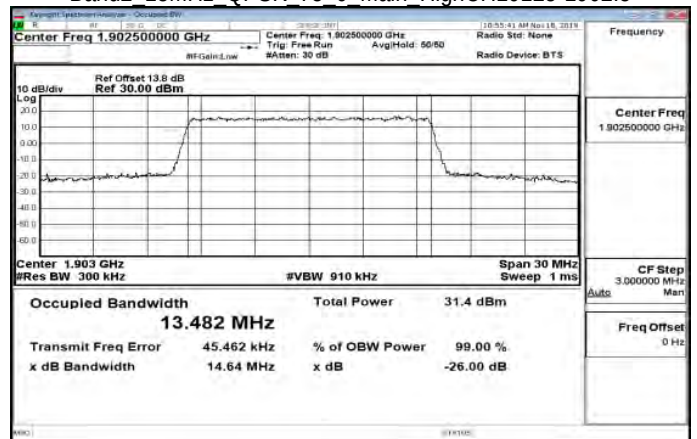
Band2 15MHz QPSK 75 0 Main MidCH18900-1880



Band2 10MHz 256QAM 50 0 Main HighCH19150-1905



Band2 15MHz QPSK 75 0 Main HighCH19125-1902.5

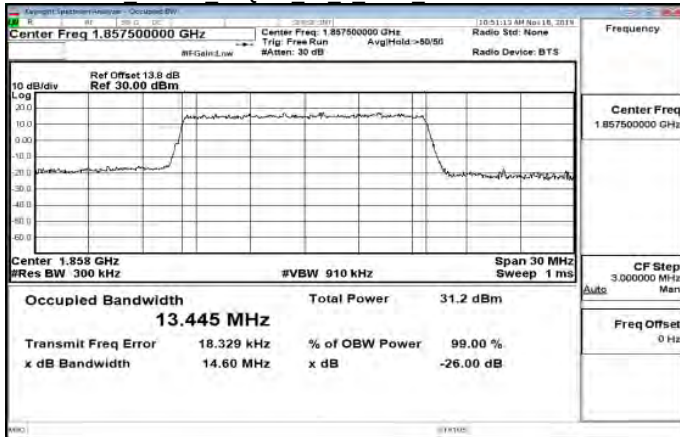


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

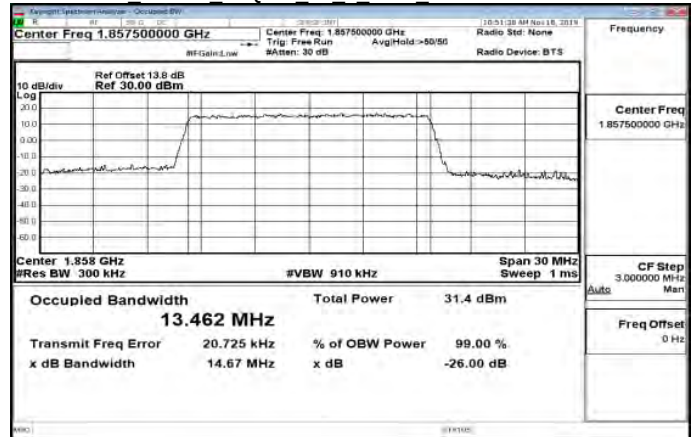
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

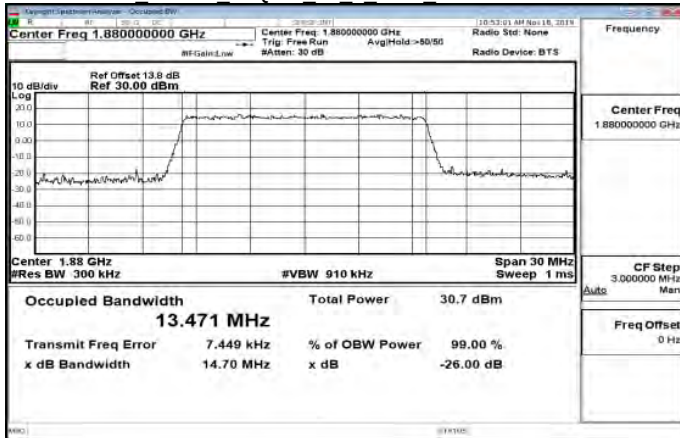
Band2 15MHz 16QAM 75 0 Main LowCH18675-1857.5



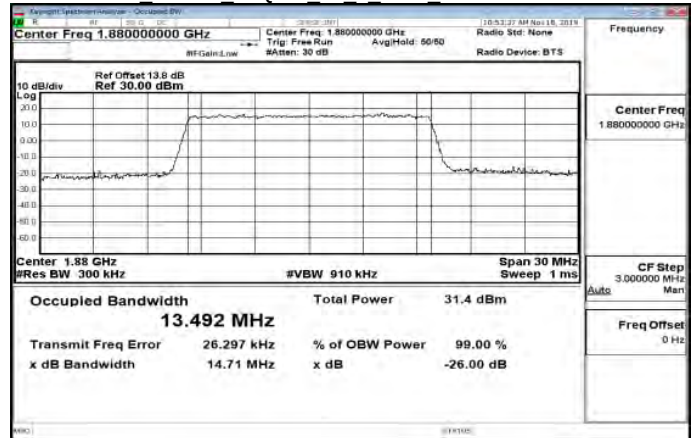
Band2 15MHz 64QAM 75 0 Main LowCH18675-1857.5



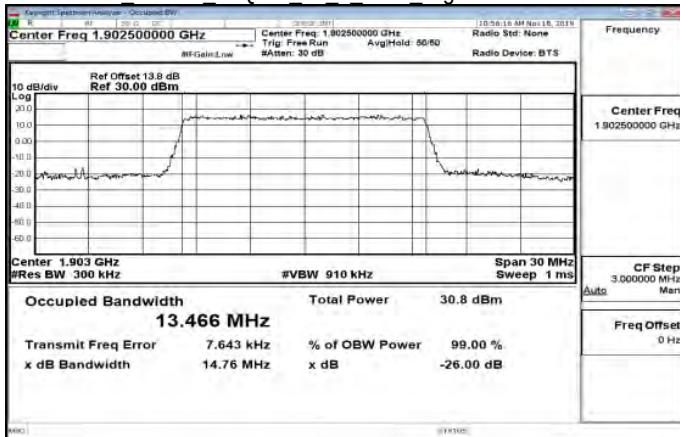
Band2 15MHz 16QAM 75 0 Main MidCH18900-1880



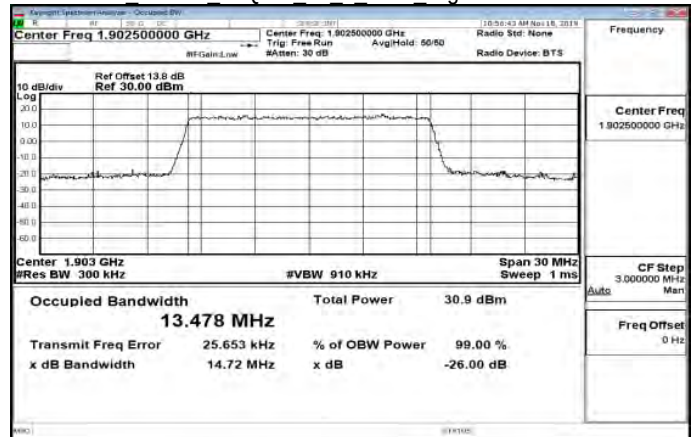
Band2 15MHz 64QAM 75 0 Main MidCH18900-1880



Band2 15MHz 16QAM 75 0 Main HighCH19125-1902.5



Band2 15MHz 64QAM 75 0 Main HighCH19125-1902.5



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.

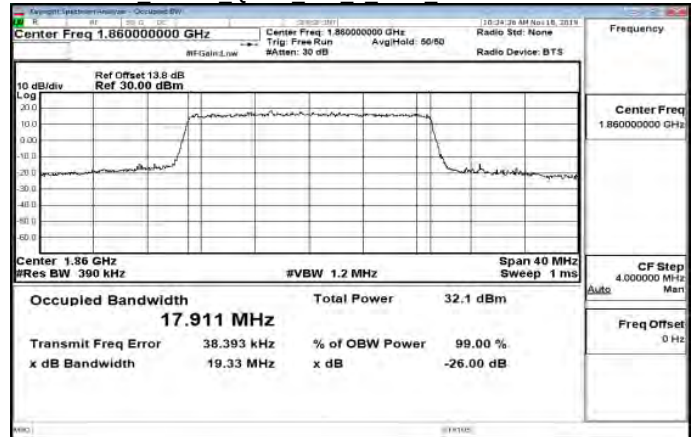
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

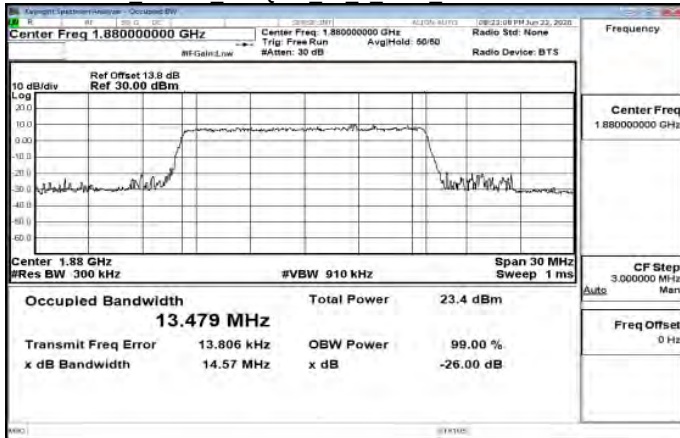
Band2 15MHz 256QAM 75 0 Main LowCH18675-1857.5



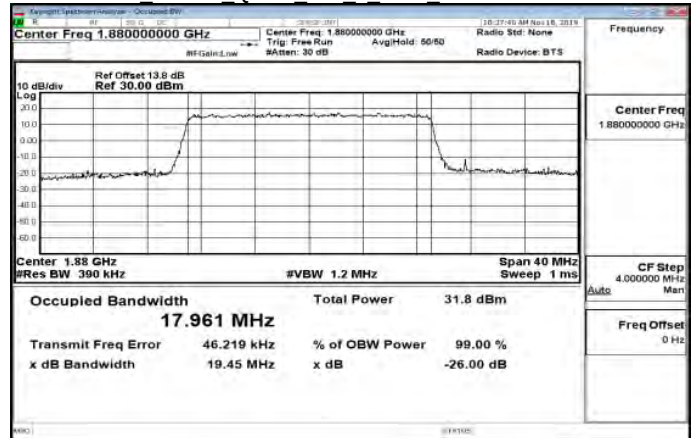
Band2 20MHz QPSK 100 0 Main LowCH18700-1860



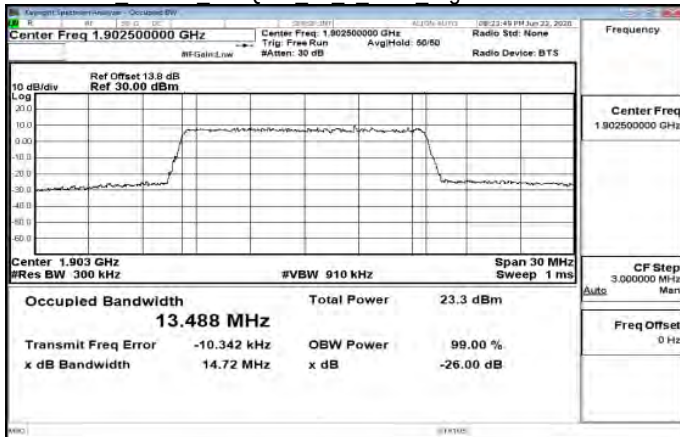
Band2 15MHz 256QAM 75 0 Main MidCH18900-1880



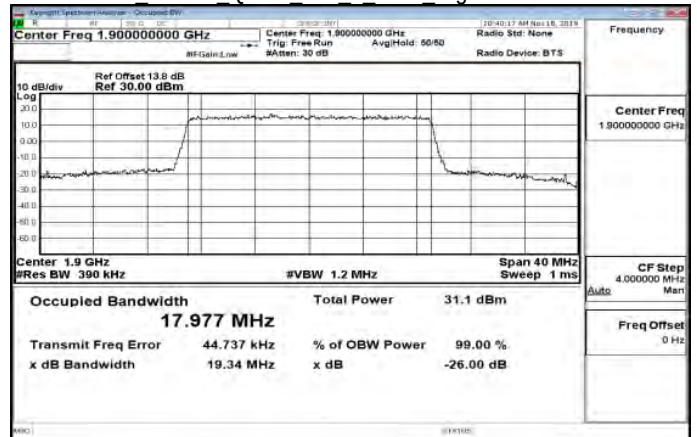
Band2 20MHz QPSK 100 0 Main MidCH18900-1880



Band2 15MHz 256QAM 75 0 Main HighCH19125-1902.5



Band2 20MHz QPSK 100 0 Main HighCH19100-1900

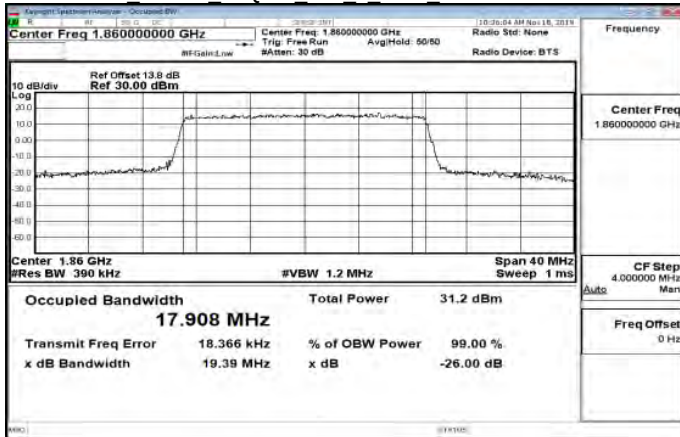


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

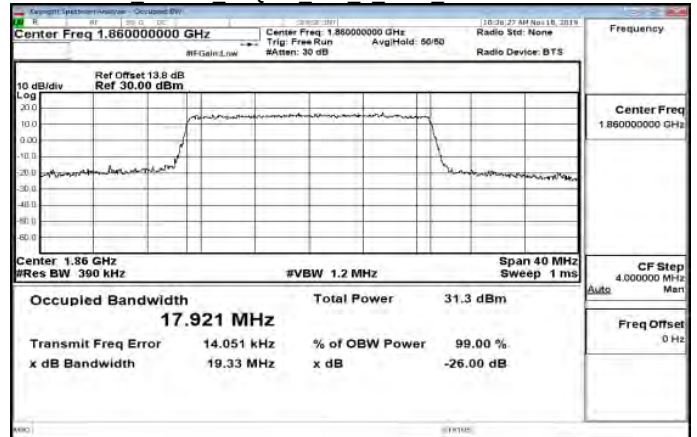
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

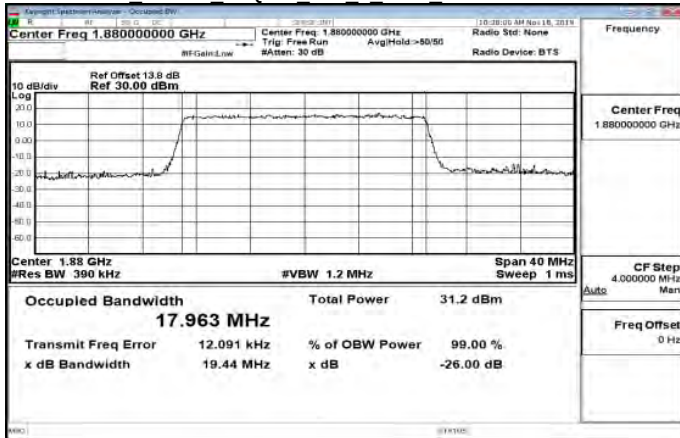
Band2 20MHz 16QAM 100 0 Main LowCH18700-1860



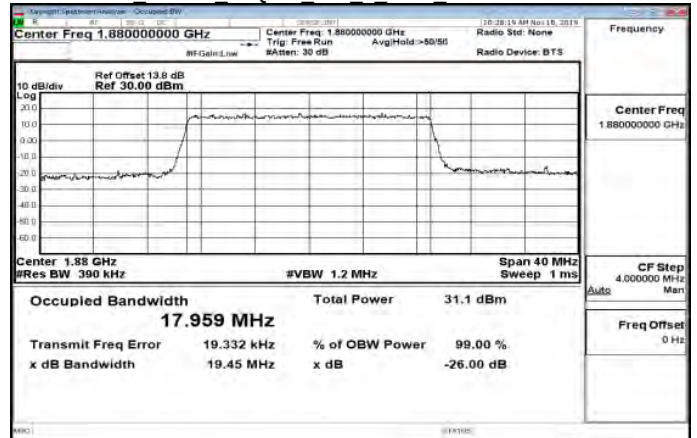
Band2 20MHz 64QAM 100 0 Main LowCH18700-1860



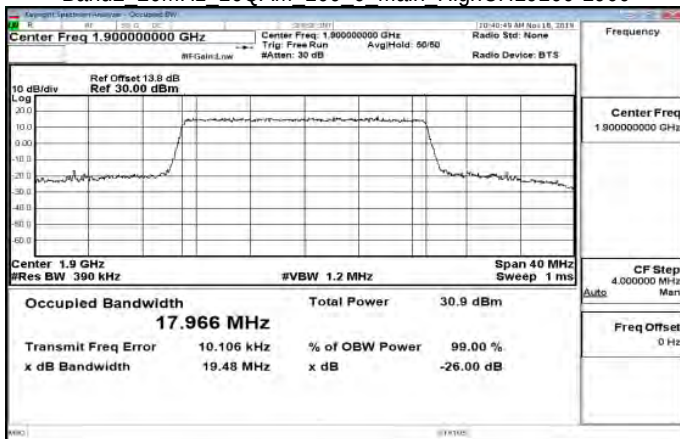
Band2 20MHz 16QAM 100 0 Main MidCH18900-1880



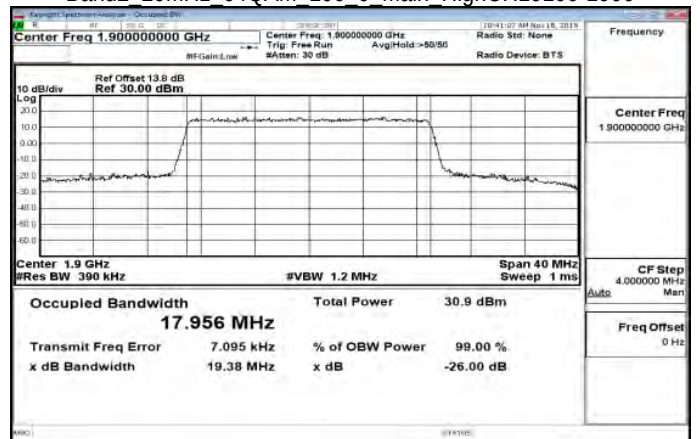
Band2 20MHz 64QAM 100 0 Main MidCH18900-1880



Band2 20MHz 16QAM 100 0 Main HighCH19100-1900



Band2 20MHz 64QAM 100 0 Main HighCH19100-1900

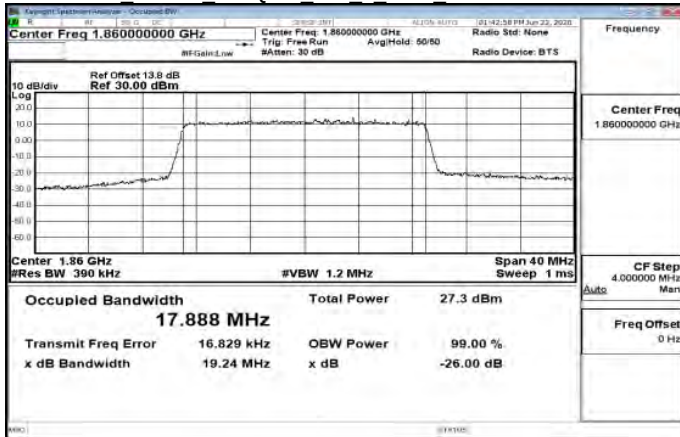


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

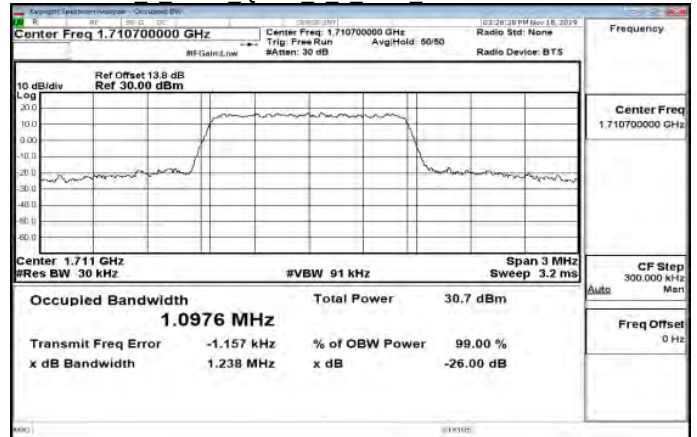
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

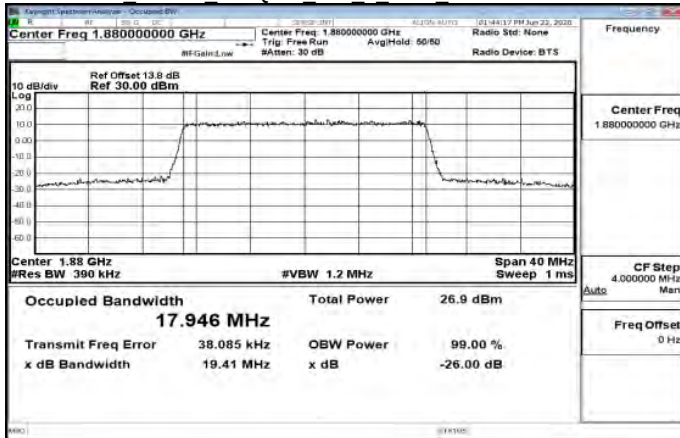
Band2 20MHz 256QAM 100 0 Main LowCH18700-1860



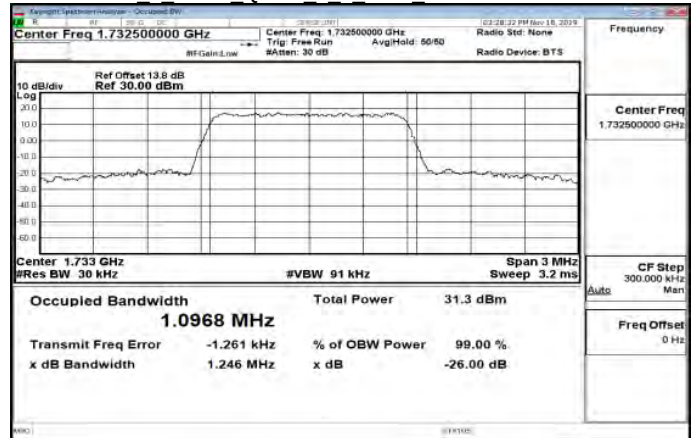
Band4 1 4MHz QPSK 6 0 Main LowCH19957-1710.7



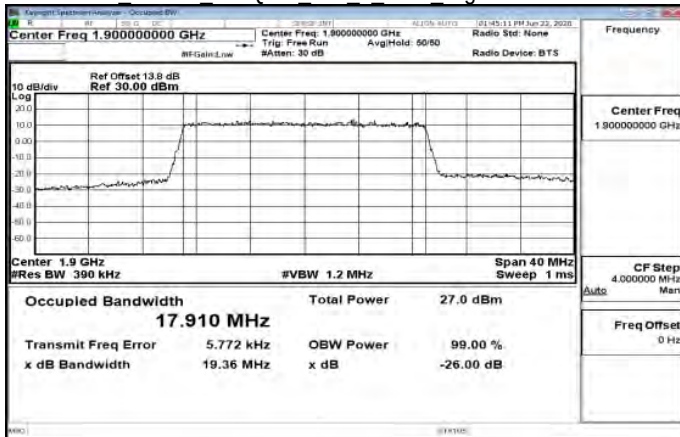
Band2 20MHz 256QAM 100 0 Main MidCH18900-1880



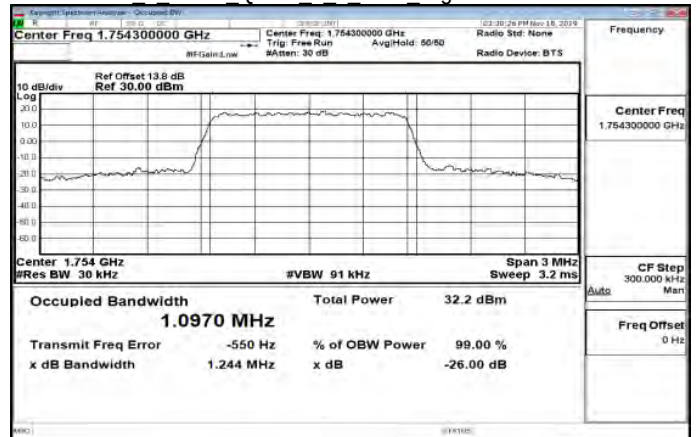
Band4 1 4MHz QPSK 6 0 Main MidCH20175-1732.5



Band2 20MHz 256QAM 100 0 Main HighCH19100-1900



Band4 1 4MHz QPSK 6 0 Main HighCH20393-1754.3

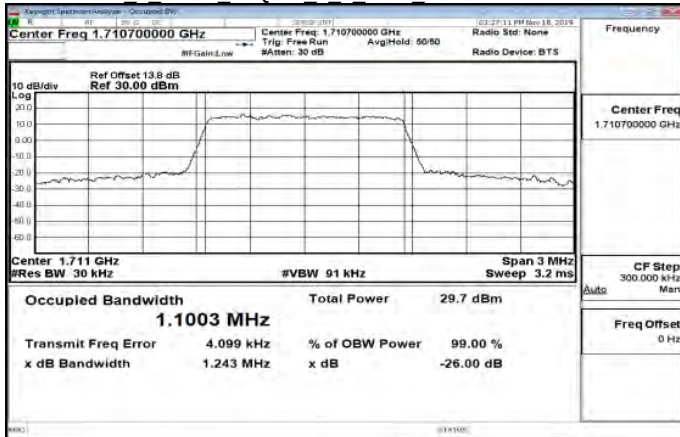


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

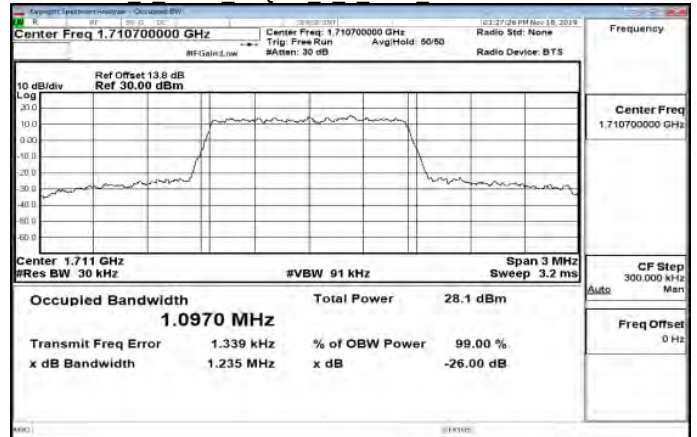
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

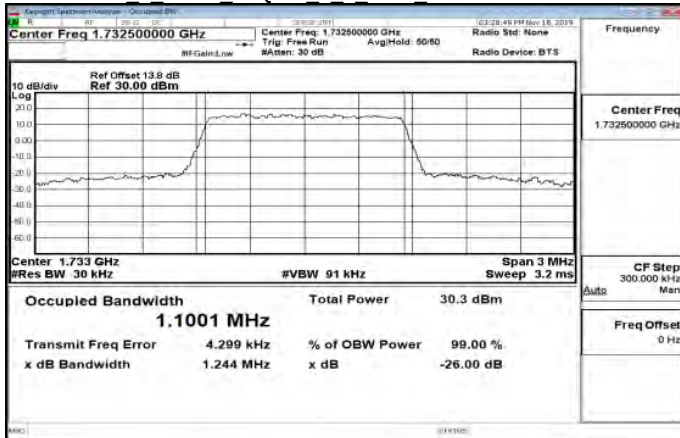
Band4 1 4MHz 16QAM 6 0 Main LowCH19957-1710.7



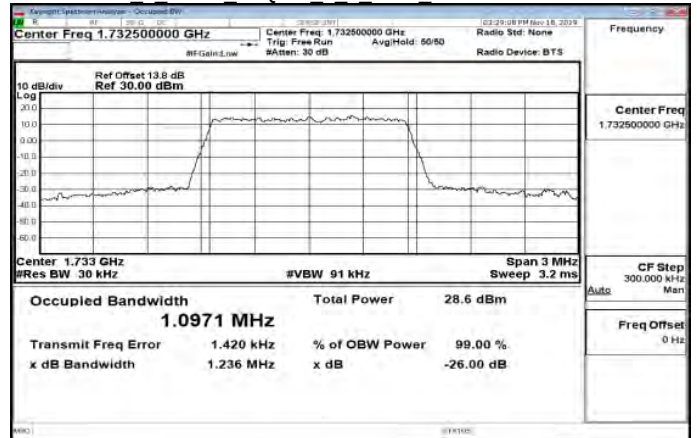
Band4 1 4MHz 64QAM 6 0 Main LowCH19957-1710.7



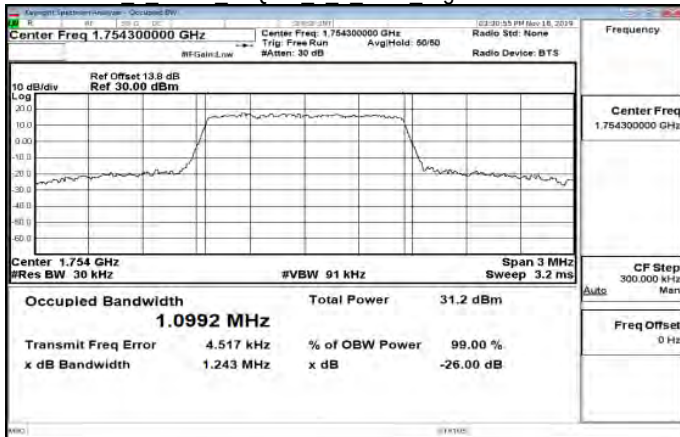
Band4 1 4MHz 16QAM 6 0 Main MidCH20175-1732.5



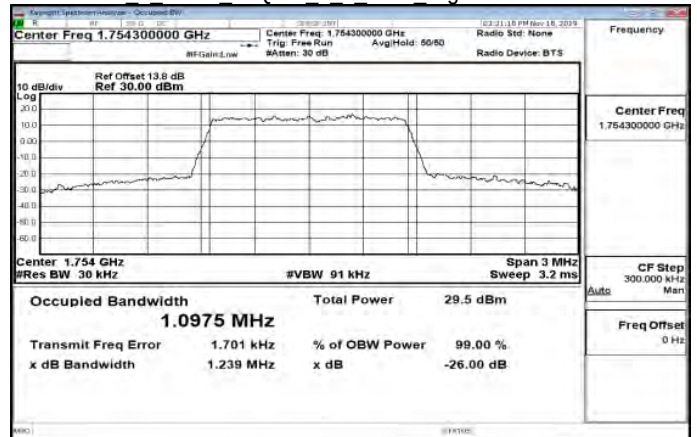
Band4 1 4MHz 64QAM 6 0 Main MidCH20175-1732.5



Band4 1 4MHz 16QAM 6 0 Main HighCH20393-1754.3



Band4 1 4MHz 64QAM 6 0 Main HighCH20393-1754.3



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.

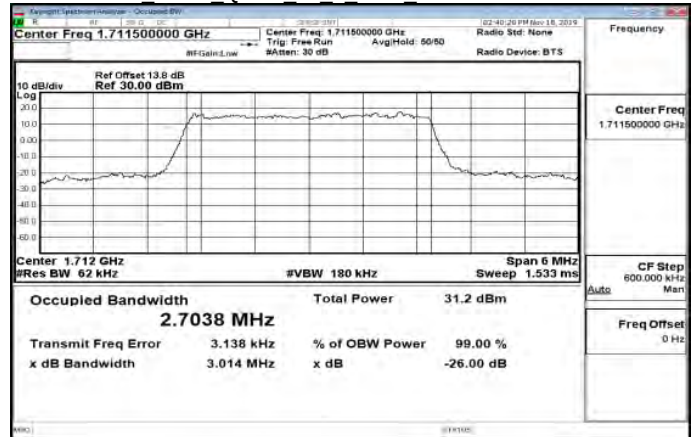
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

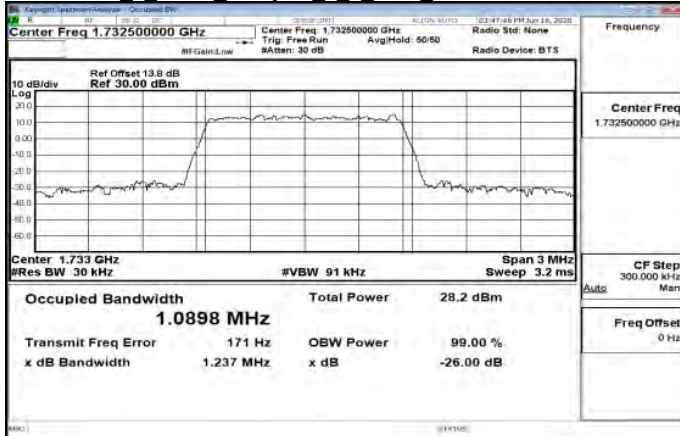
Band4 1 4MHz 256QAM 6 0 Main LowCH19957-1710.7



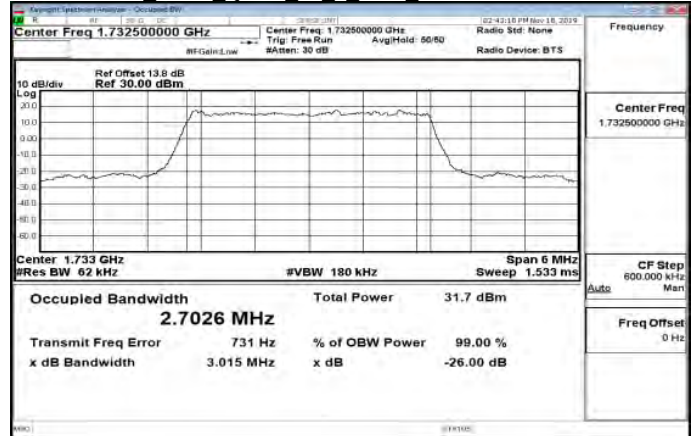
Band4 3MHz QPSK 15 0 Main LowCH19965-1711.5



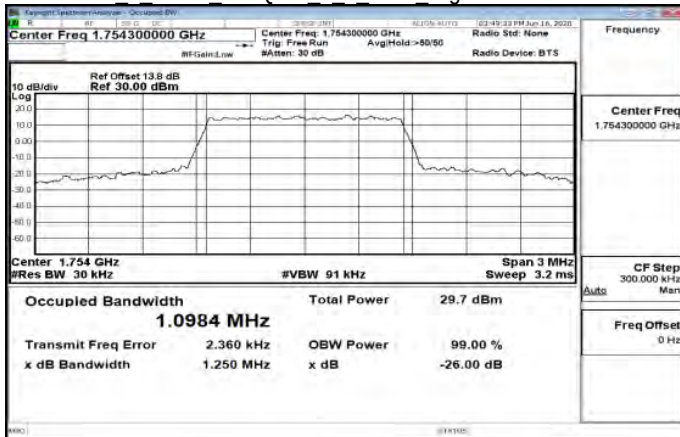
Band4 1 4MHz 256QAM 6 0 Main MidCH20175-1732.5



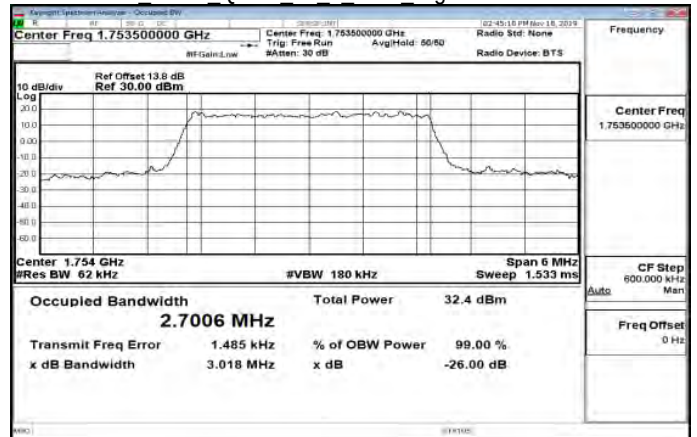
Band4 3MHz QPSK 15 0 Main MidCH20175-1732.5



Band4 1 4MHz 256QAM 6 0 Main HighCH20393-1754.3



Band4 3MHz QPSK 15 0 Main HighCH20385-1753.5

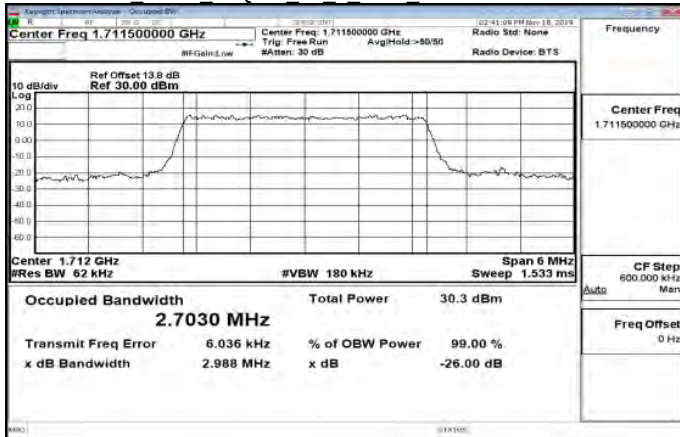


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

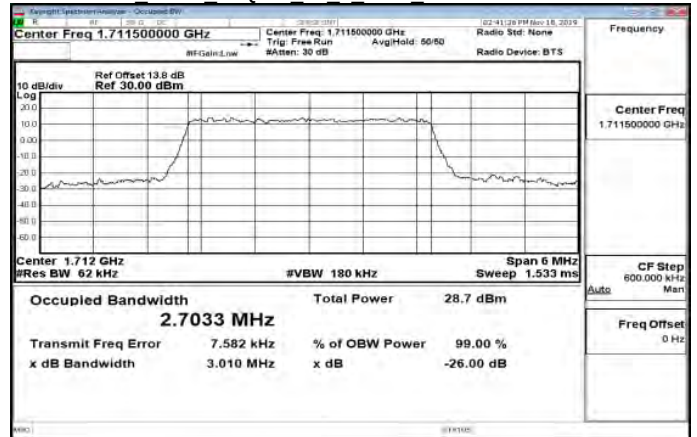
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

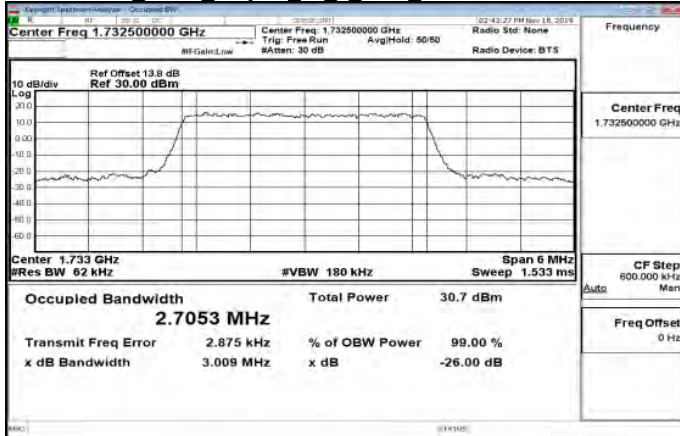
Band4 3MHz 16QAM 15 0 Main LowCH19965-1711.5



Band4 3MHz 64QAM 15 0 Main LowCH19965-1711.5



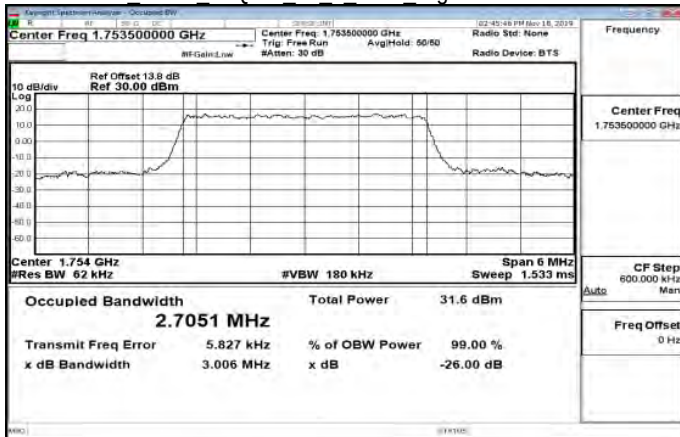
Band4 3MHz 16QAM 15 0 Main MidCH20175-1732.5



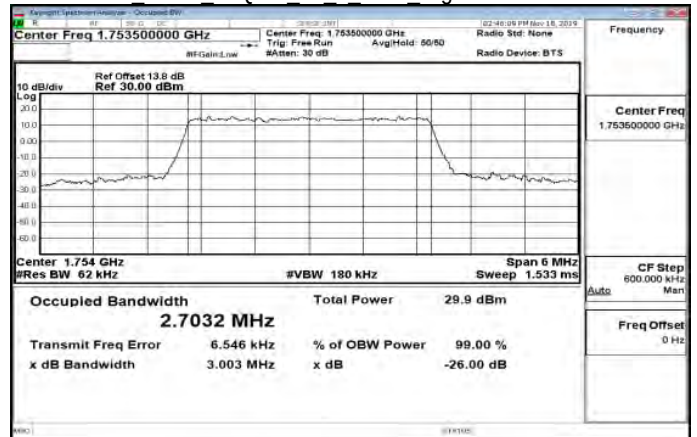
Band4 3MHz 64QAM 15 0 Main MidCH20175-1732.5



Band4 3MHz 16QAM 15 0 Main HighCH20385-1753.5



Band4 3MHz 64QAM 15 0 Main HighCH20385-1753.5

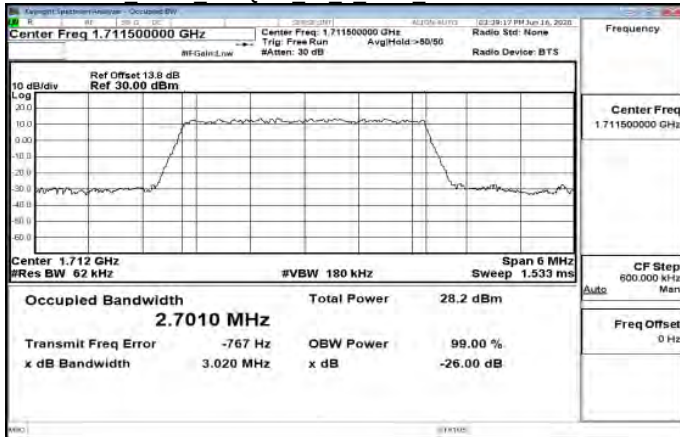


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

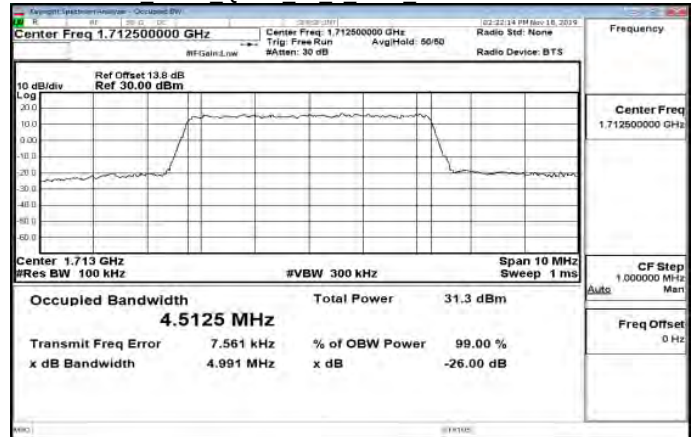
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

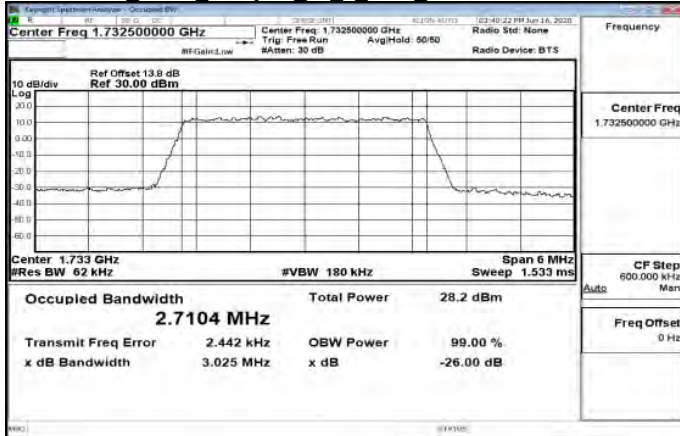
Band4 3MHz 256QAM 15 0 Main LowCH19965-1711.5



Band4 5MHz QPSK 25 0 Main LowCH19975-1712.5



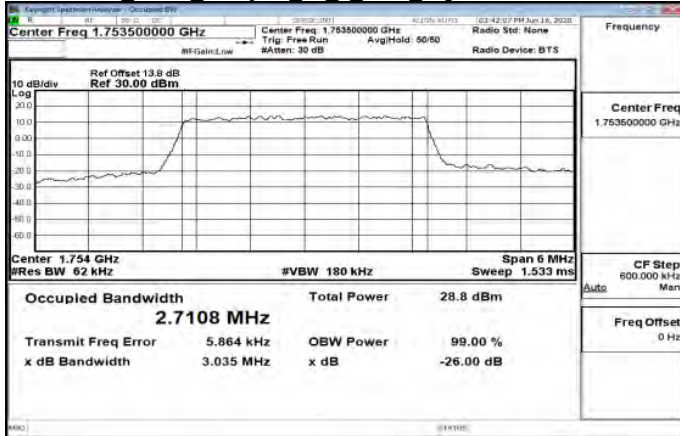
Band4 3MHz 256QAM 15 0 Main MidCH20175-1732.5



Band4 5MHz QPSK 25 0 Main MidCH20175-1732.5



Band4 3MHz 256QAM 15 0 Main HighCH20385-1753.5



Band4 5MHz QPSK 25 0 Main HighCH20375-1752.5

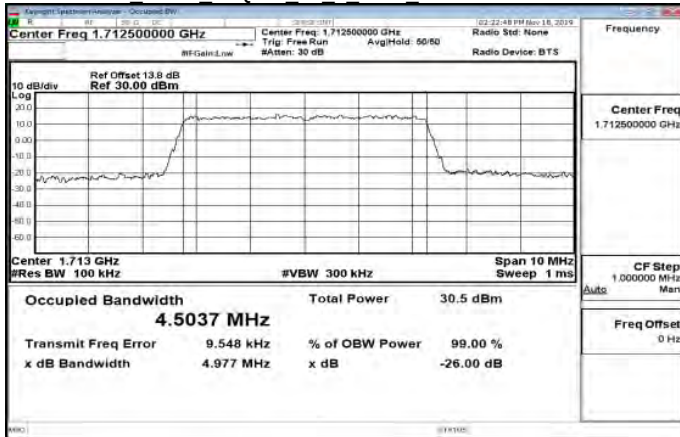


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

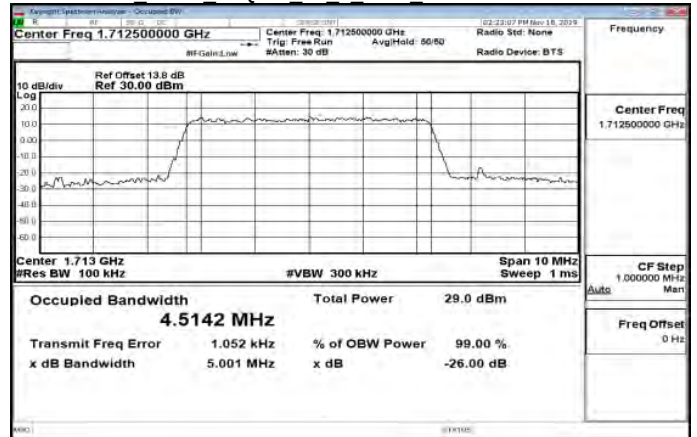
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

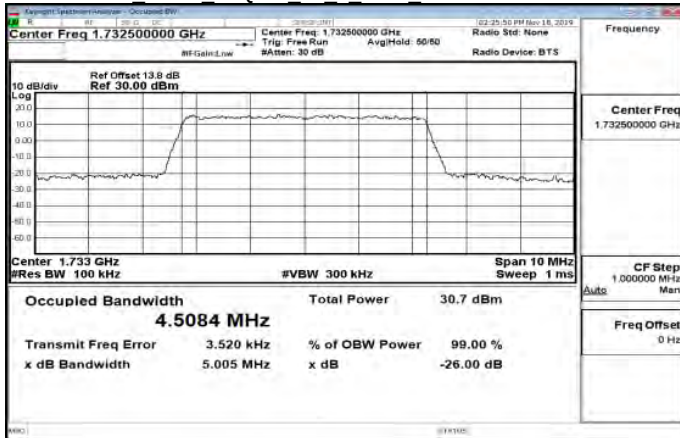
Band4 5MHz 16QAM 25 0 Main LowCH19975-1712.5



Band4 5MHz 64QAM 25 0 Main LowCH19975-1712.5



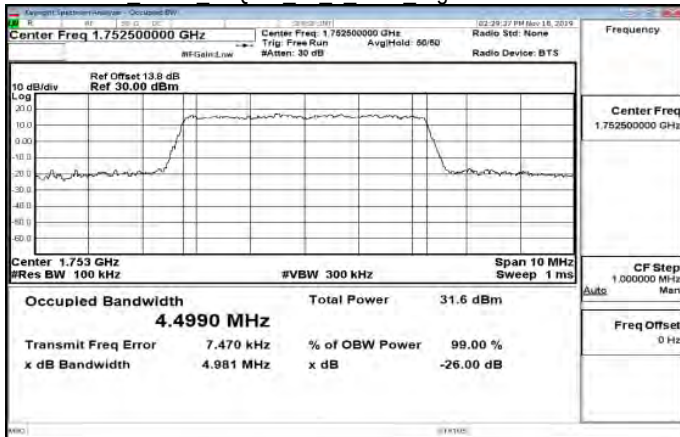
Band4 5MHz 16QAM 25 0 Main MidCH20175-1732.5



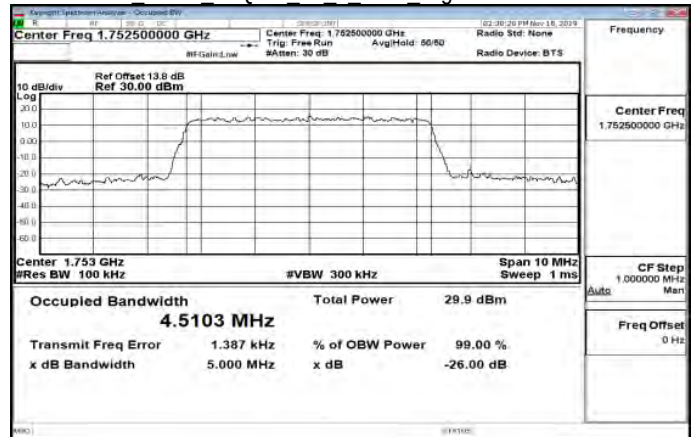
Band4 5MHz 64QAM 25 0 Main MidCH20175-1732.5



Band4 5MHz 16QAM 25 0 Main HighCH20375-1752.5



Band4 5MHz 64QAM 25 0 Main HighCH20375-1752.5

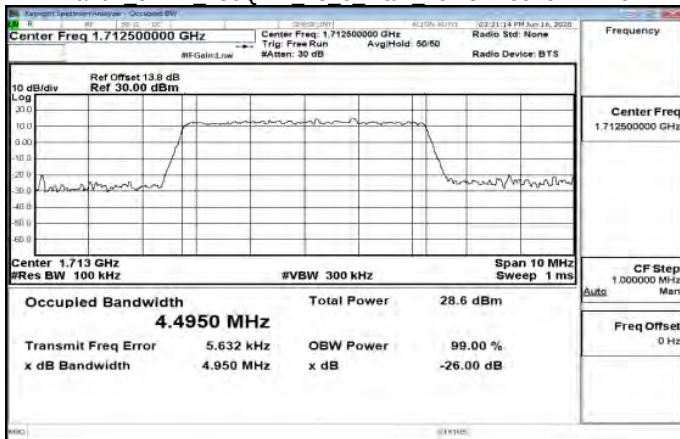


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

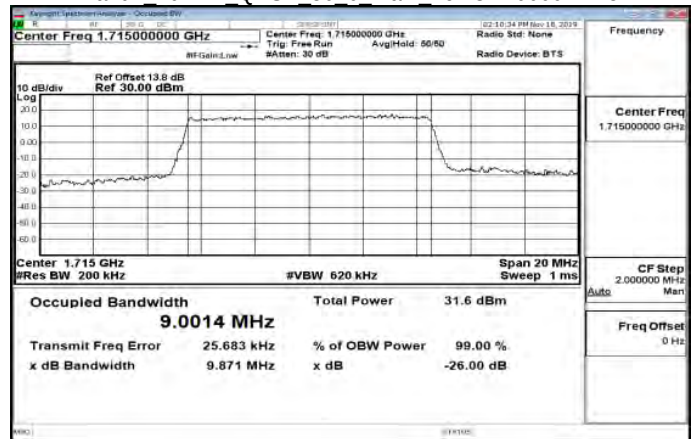
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

Band4 5MHz 256QAM 25 0 Main LowCH19975-1712.5



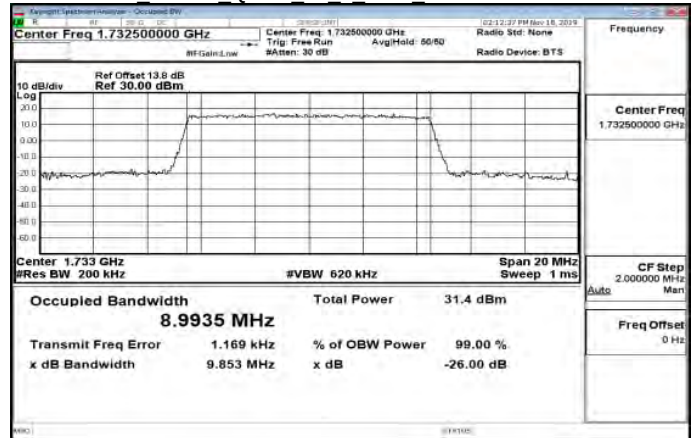
Band4 10MHz QPSK 50 0 Main LowCH20000-1715



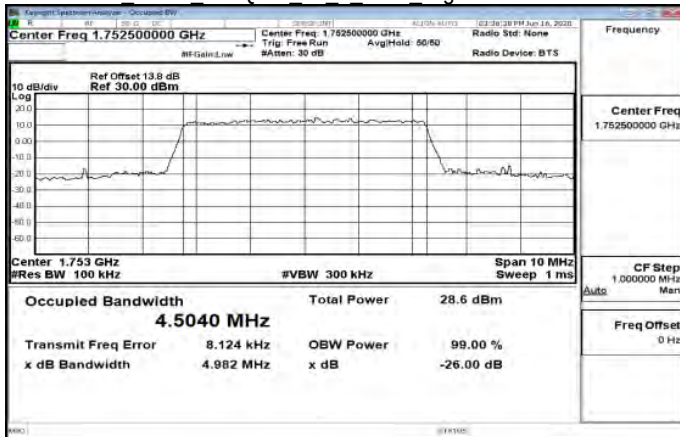
Band4 5MHz 256QAM 25 0 Main MidCH20175-1732.5



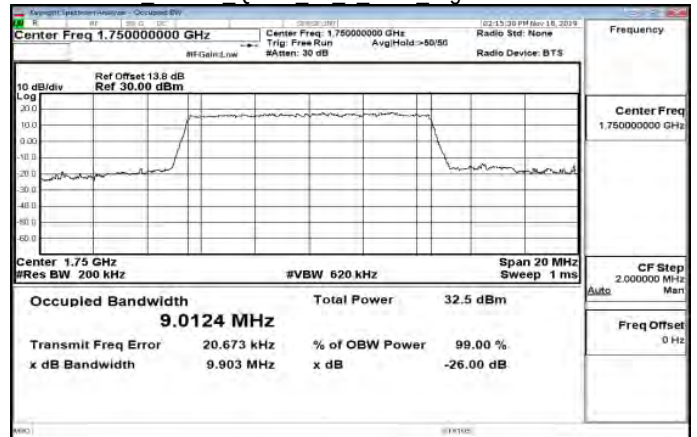
Band4 10MHz QPSK 50 0 Main MidCH20175-1732.5



Band4 5MHz 256QAM 25 0 Main HighCH20375-1752.5



Band4 10MHz QPSK 50 0 Main HighCH20350-1750

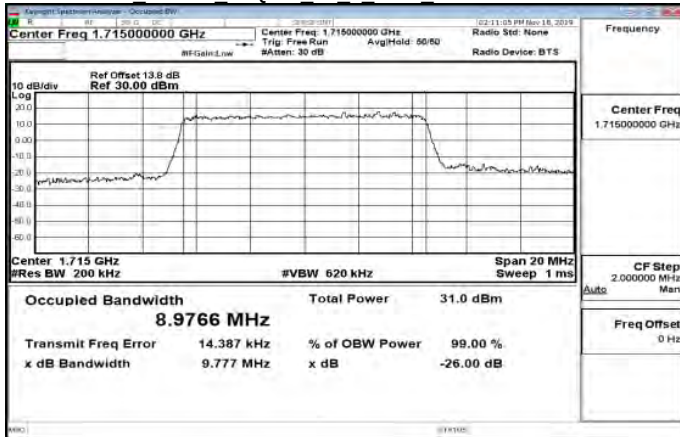


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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>. 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 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.

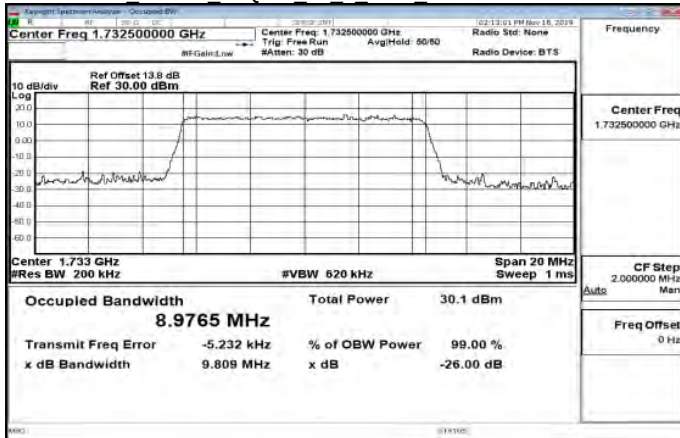
Band4 10MHz 16QAM 50 0 Main LowCH20000-1715



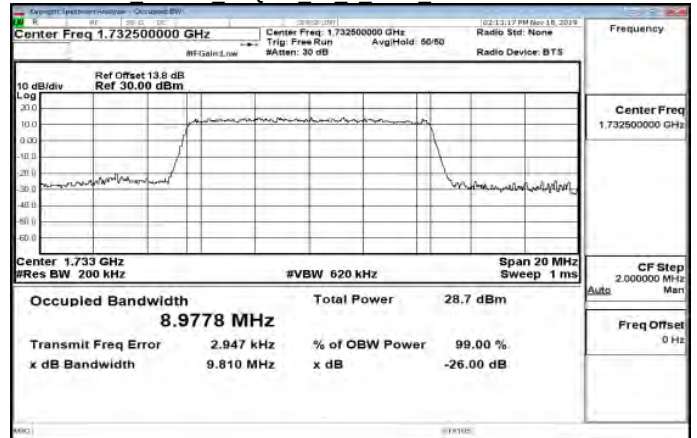
Band4 10MHz 64QAM 50 0 Main LowCH20000-1715



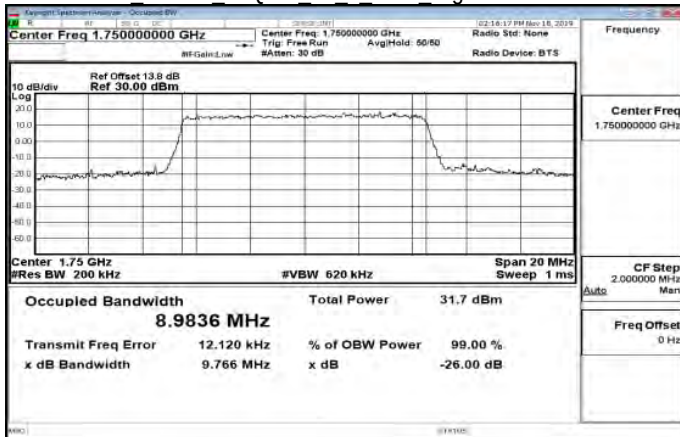
Band4 10MHz 16QAM 50 0 Main MidCH20175-1732.5



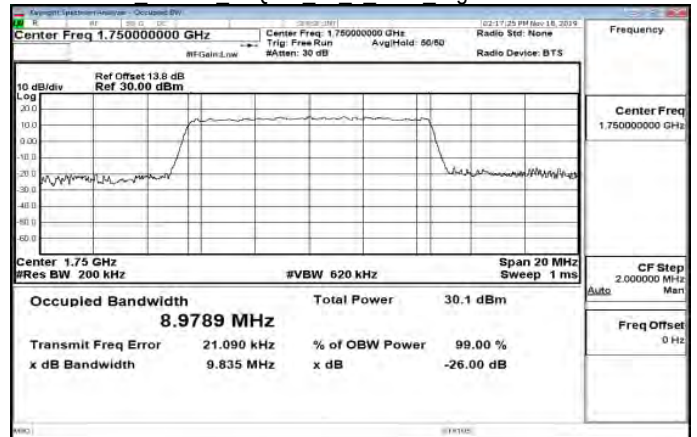
Band4 10MHz 64QAM 50 0 Main MidCH20175-1732.5



Band4 10MHz 16QAM 50 0 Main HighCH20350-1750



Band4 10MHz 64QAM 50 0 Main HighCH20350-1750

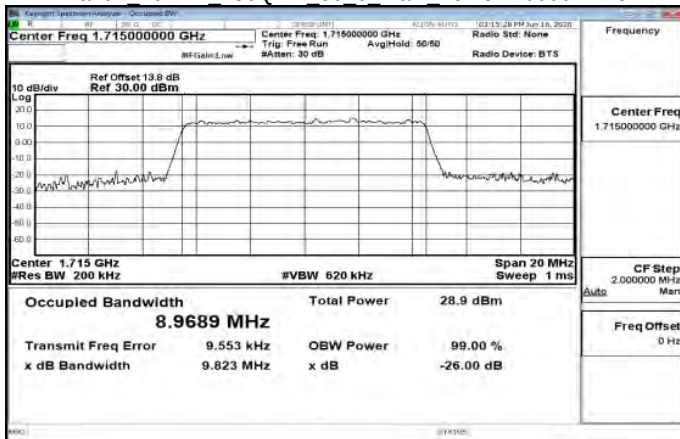


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

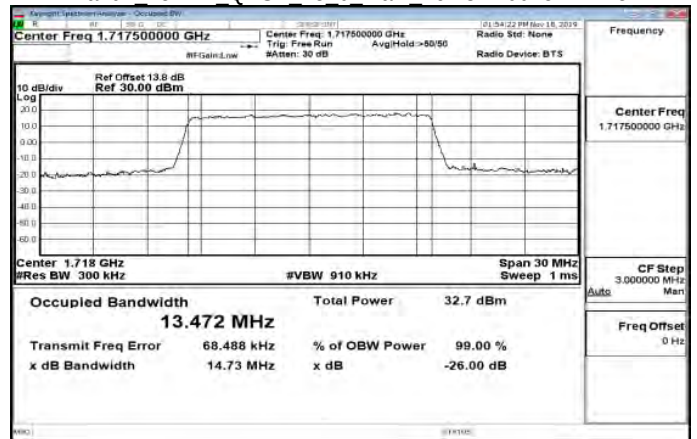
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

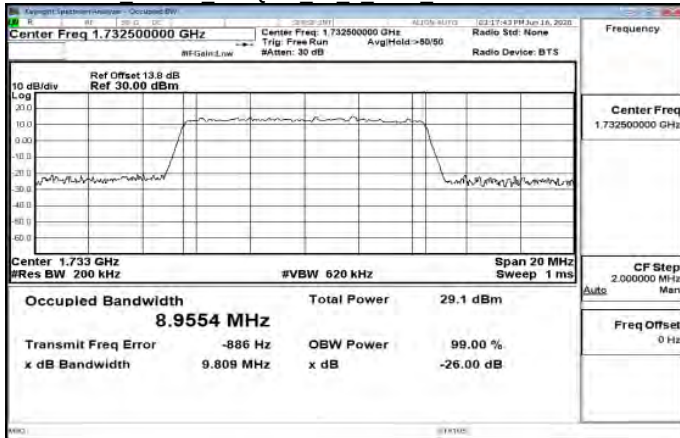
Band4 10MHz 256QAM 50 0 Main LowCH20000-1715



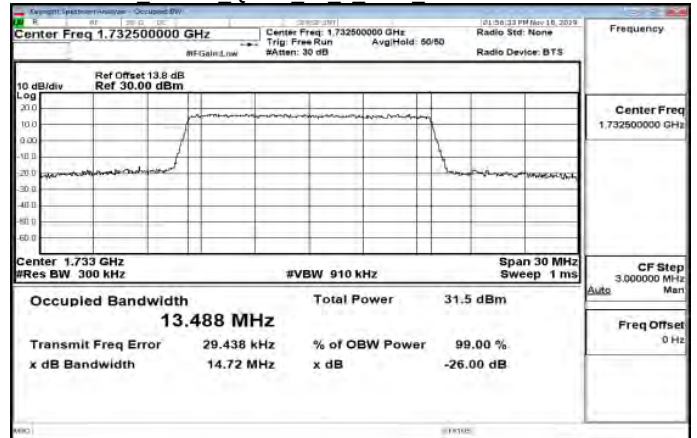
Band4 15MHz QPSK 75 0 Main LowCH20025-1717.5



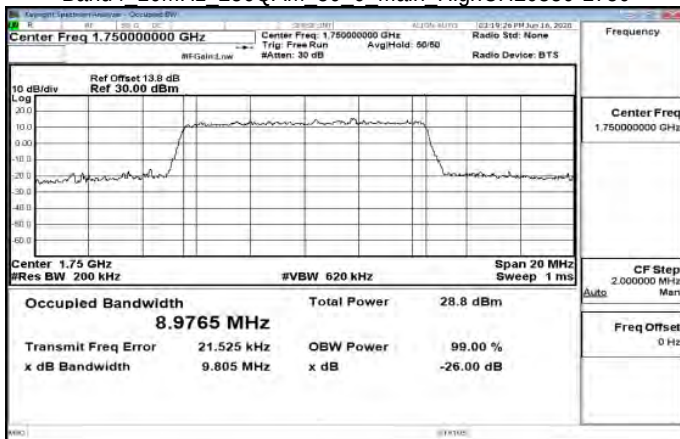
Band4 10MHz 256QAM 50 0 Main MidCH20175-1732.5



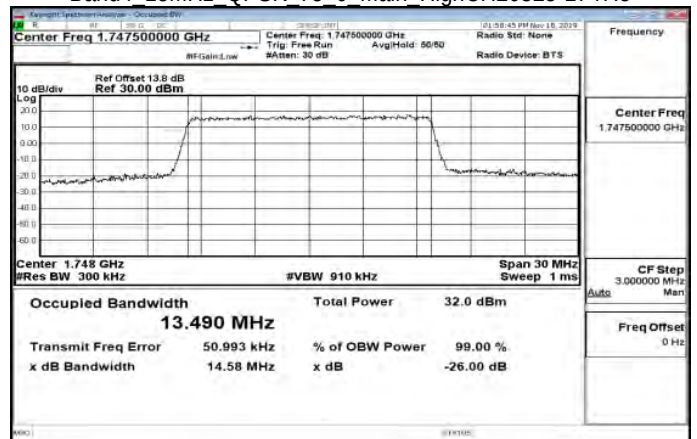
Band4 15MHz QPSK 75 0 Main MidCH20175-1732.5



Band4 10MHz 256QAM 50 0 Main HighCH20350-1750



Band4 15MHz QPSK 75 0 Main HighCH20325-1747.5

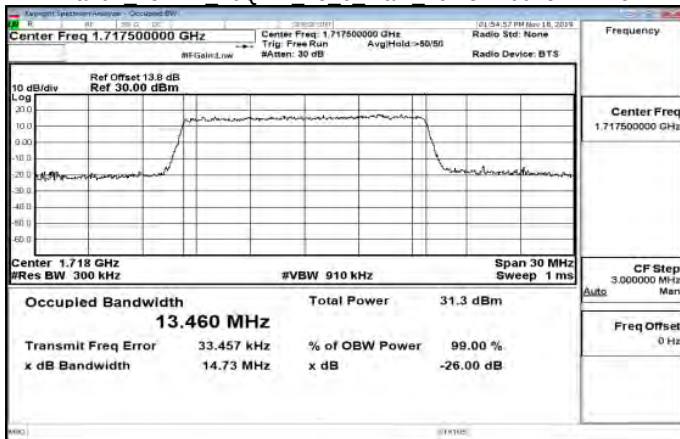


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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>. 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 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.

Band4 15MHz 16QAM 75 0 Main LowCH20025-1717.5



Band4 15MHz 64QAM 75 0 Main LowCH20025-1717.5



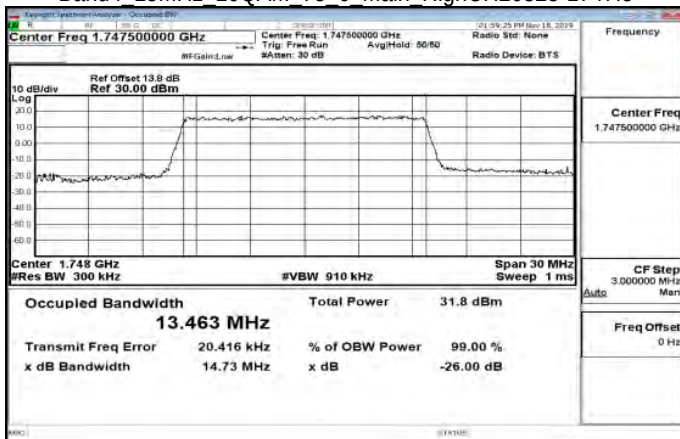
Band4 15MHz 16QAM 75 0 Main MidCH20175-1732.5



Band4 15MHz 64QAM 75 0 Main MidCH20175-1732.5



Band4 15MHz 16QAM 75 0 Main HighCH20325-1747.5



Band4 15MHz 64QAM 75 0 Main HighCH20325-1747.5

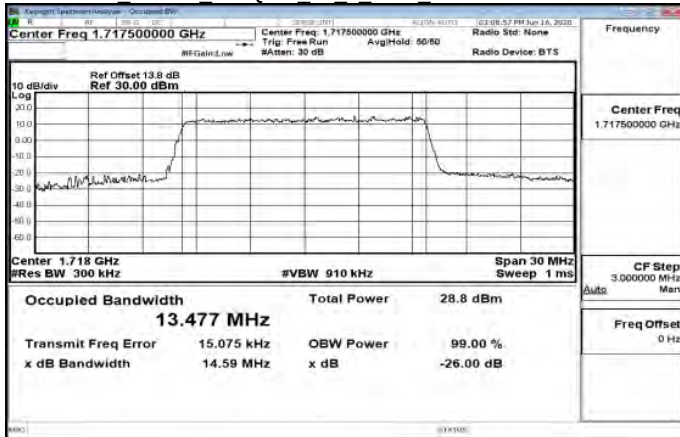


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

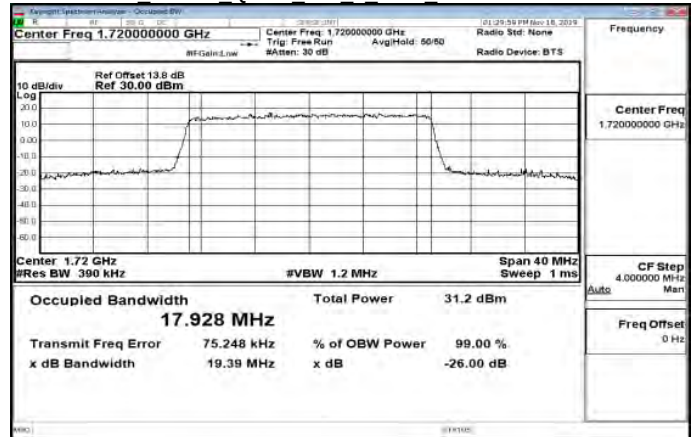
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

Band4 15MHz 256QAM 75 0 Main LowCH20025-1717.5



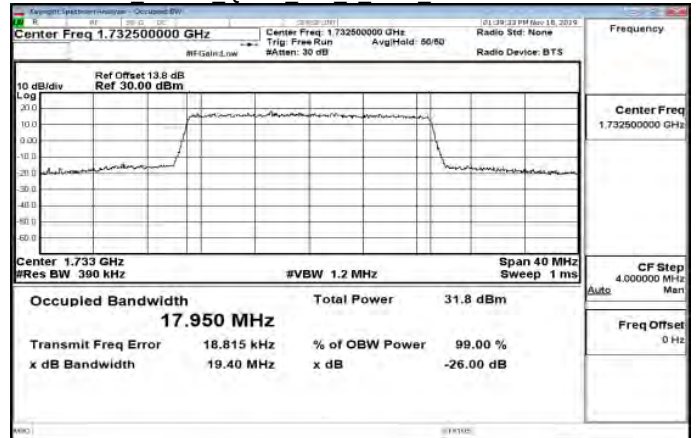
Band4 20MHz QPSK 100 0 Main LowCH20050-1720



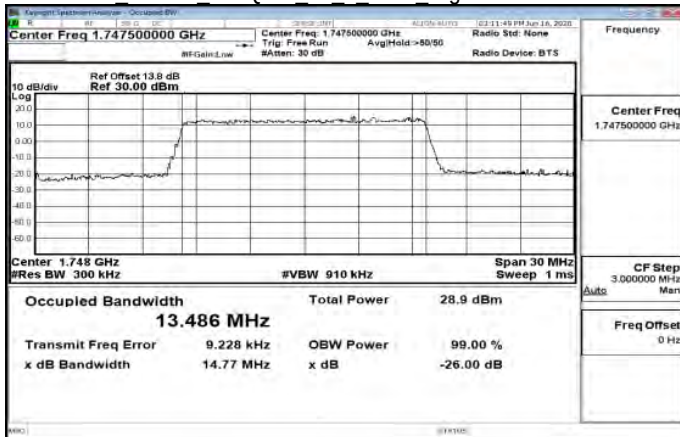
Band4 15MHz 256QAM 75 0 Main MidCH20175-1732.5



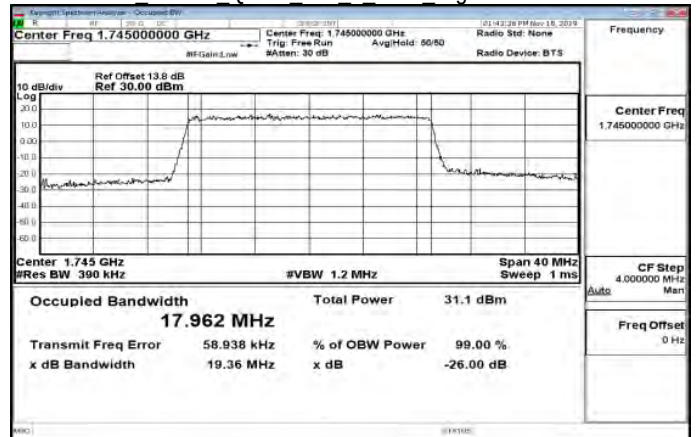
Band4 20MHz QPSK 100 0 Main MidCH20175-1732.5



Band4 15MHz 256QAM 75 0 Main HighCH20325-1747.5



Band4 20MHz QPSK 100 0 Main HighCH20300-1745



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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

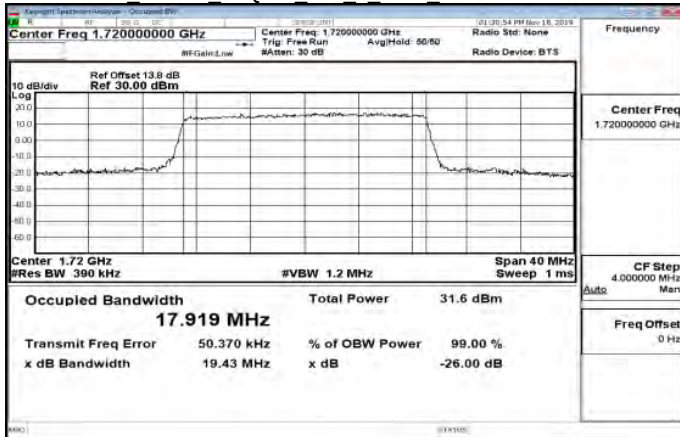
t (886-2) 2299-3279

f (886-2) 2298-0488

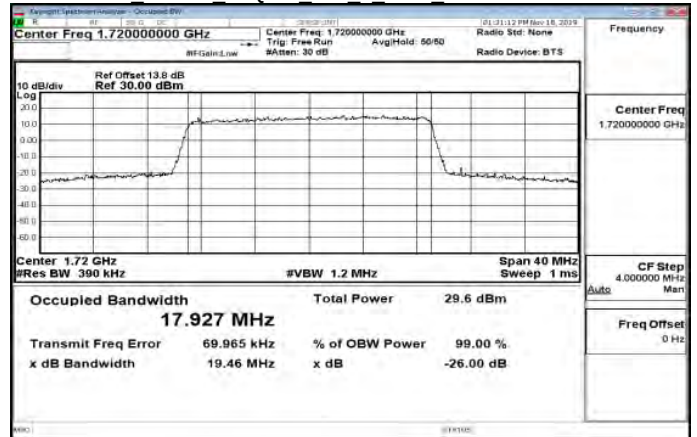
www.sgs.com.tw

Member of SGS Group

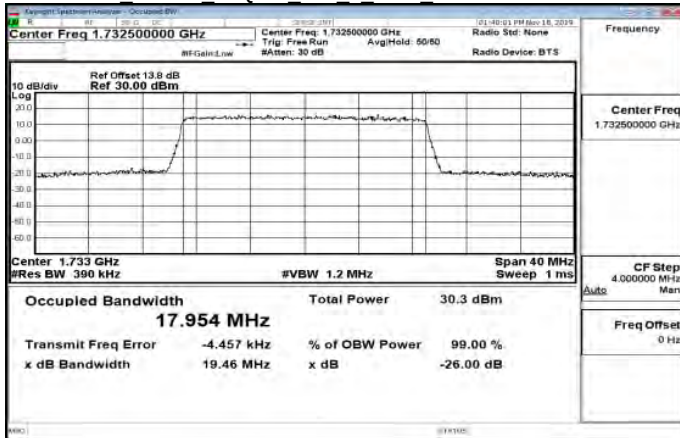
Band4 20MHz 16QAM 100 0 Main LowCH20050-1720



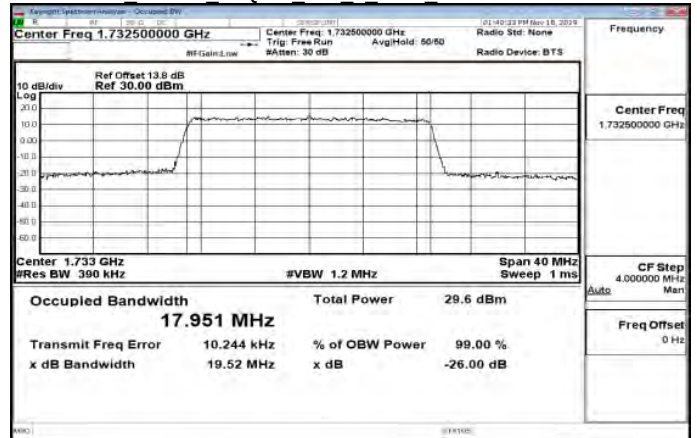
Band4 20MHz 64QAM 100 0 Main LowCH20050-1720



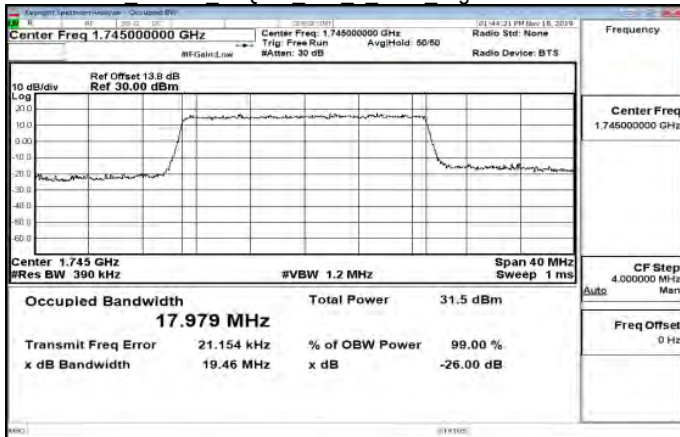
Band4 20MHz 16QAM 100 0 Main MidCH20175-1732.5



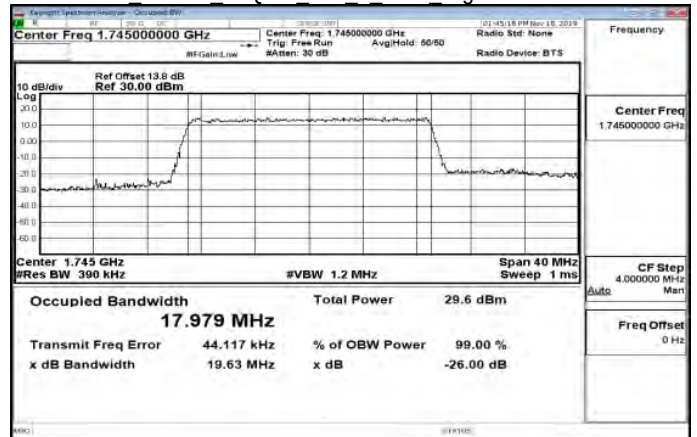
Band4 20MHz 64QAM 100 0 Main MidCH20175-1732.5



Band4 20MHz 16QAM 100 0 Main HighCH20300-1745



Band4 20MHz 64QAM 100 0 Main HighCH20300-1745

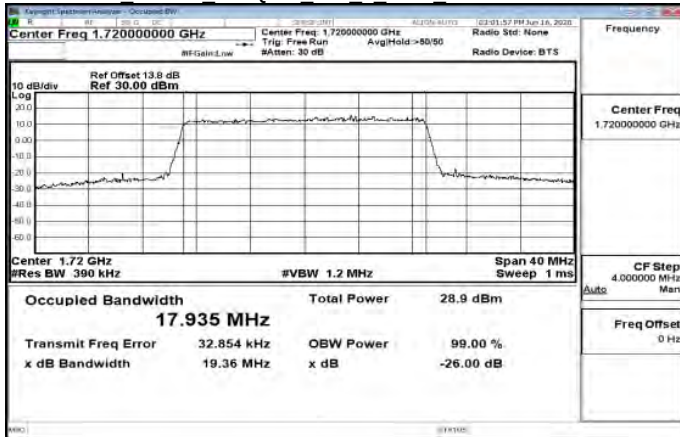


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

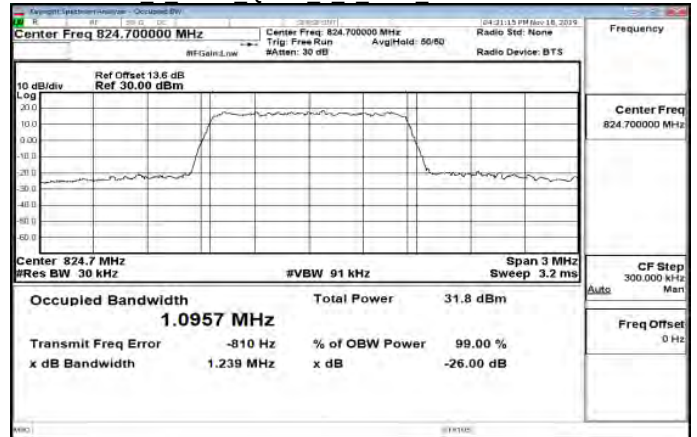
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

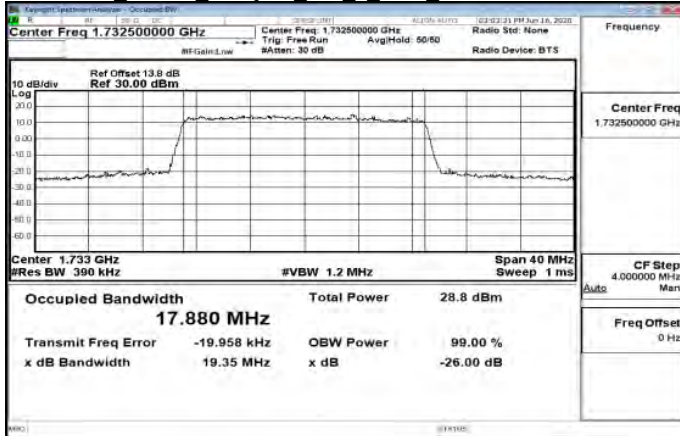
Band4 20MHz 256QAM 100 0 Main LowCH20050-1720



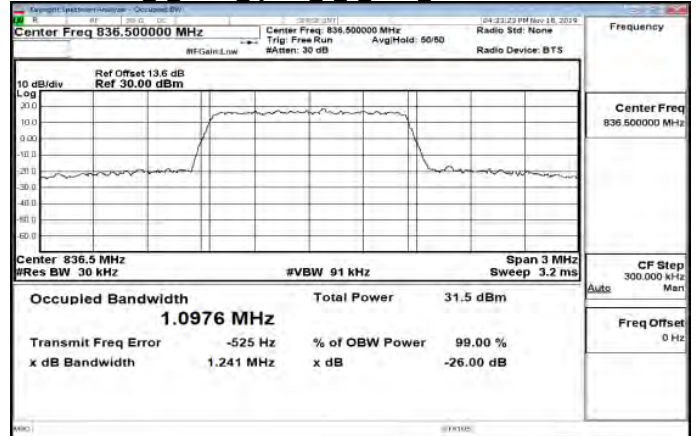
Band5 1 4MHz QPSK 6 0 Main LowCH20407-824.7



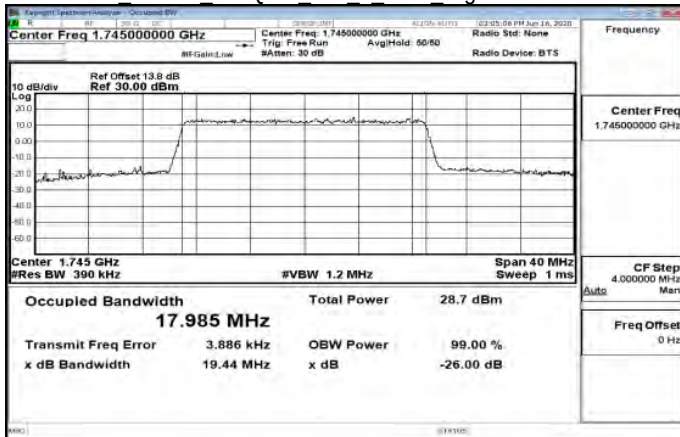
Band4 20MHz 256QAM 100 0 Main MidCH20175-1732.5



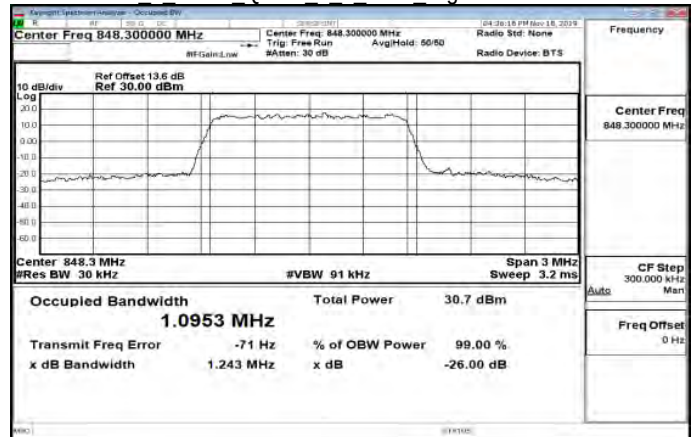
Band5 1 4MHz QPSK 6 0 Main MidCH20525-836.5



Band4 20MHz 256QAM 100 0 Main HighCH20300-1745



Band5 1 4MHz QPSK 6 0 Main HighCH20643-848.3

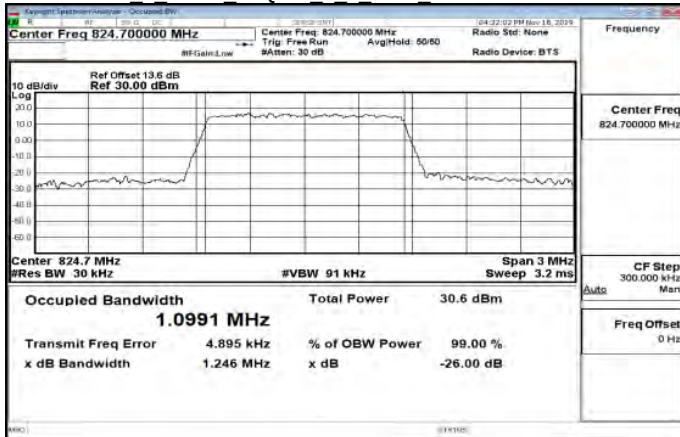


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

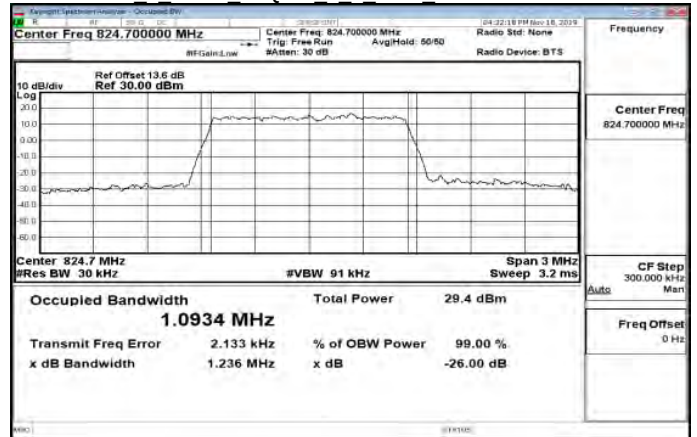
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

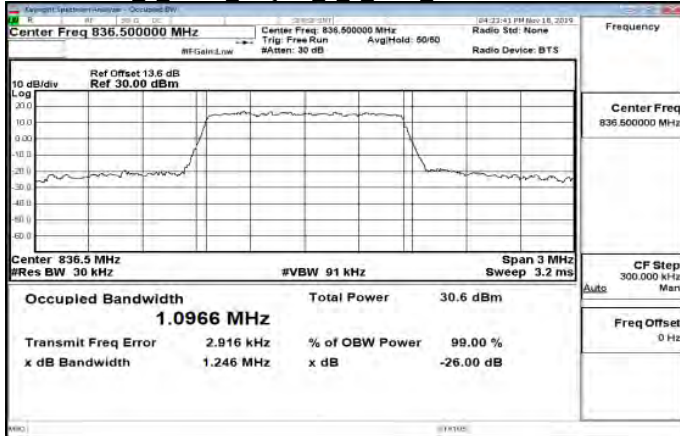
Band5 1 4MHz 16QAM 6 0 Main LowCH20407-824.7



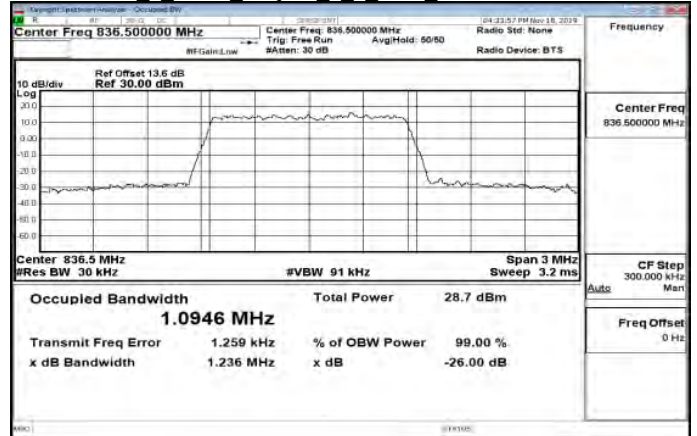
Band5 1 4MHz 64QAM 6 0 Main LowCH20407-824.7



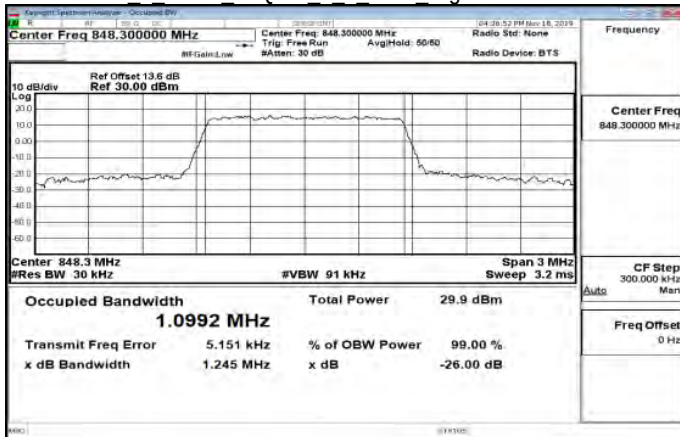
Band5 1 4MHz 16QAM 6 0 Main MidCH20525-836.5



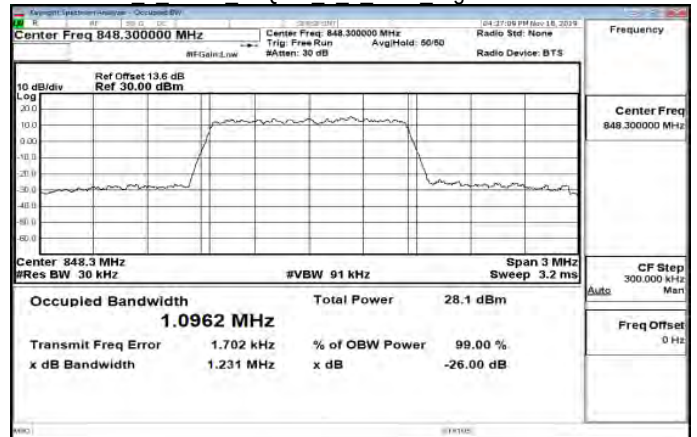
Band5 1 4MHz 64QAM 6 0 Main MidCH20525-836.5



Band5 1 4MHz 16QAM 6 0 Main HighCH20643-848.3



Band5 1 4MHz 64QAM 6 0 Main HighCH20643-848.3

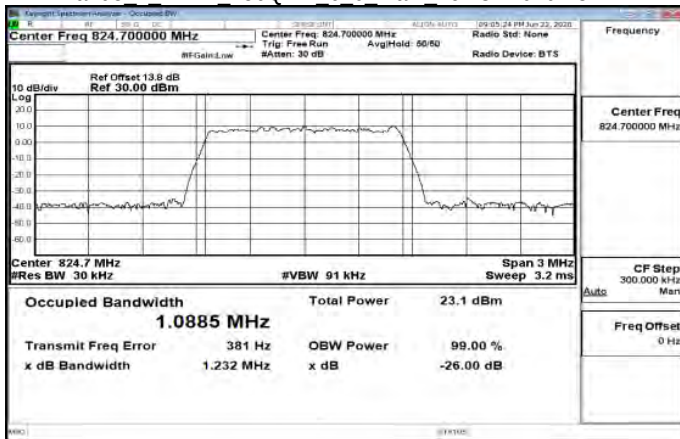


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

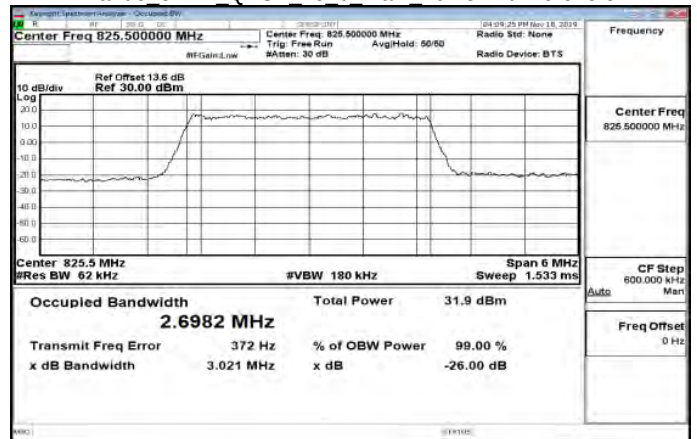
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

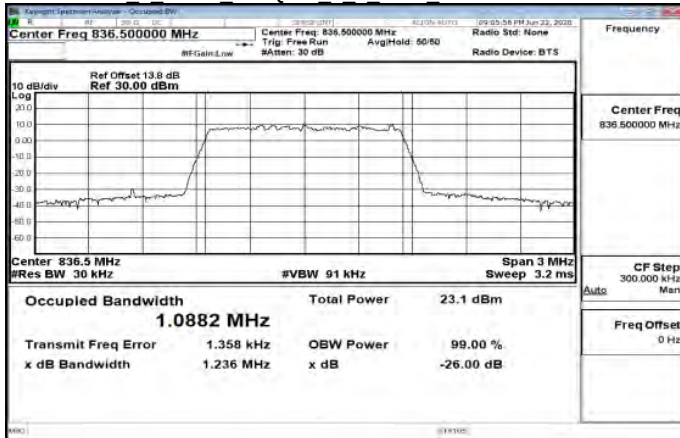
Band5 1 4MHz 256QAM 6 0 Main LowCH20407-824.7



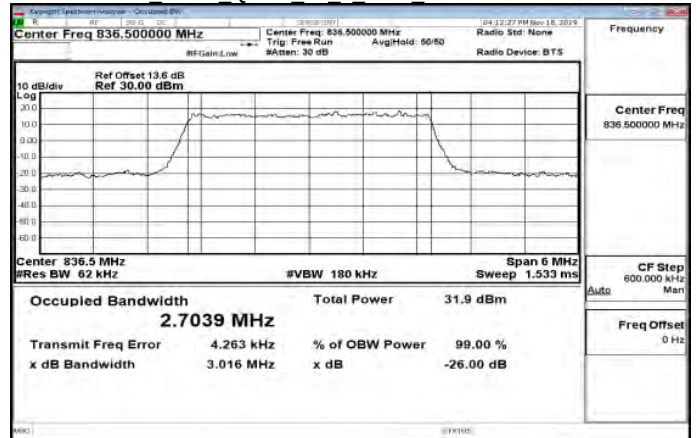
Band5 3MHz QPSK 15 0 Main LowCH20415-825.5



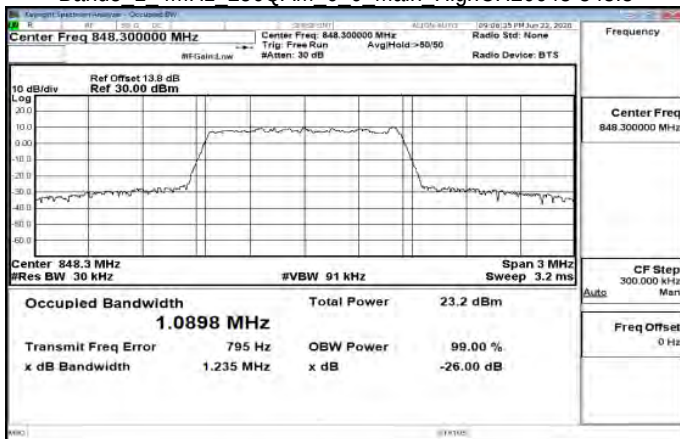
Band5 1 4MHz 256QAM 6 0 Main MidCH20525-836.5



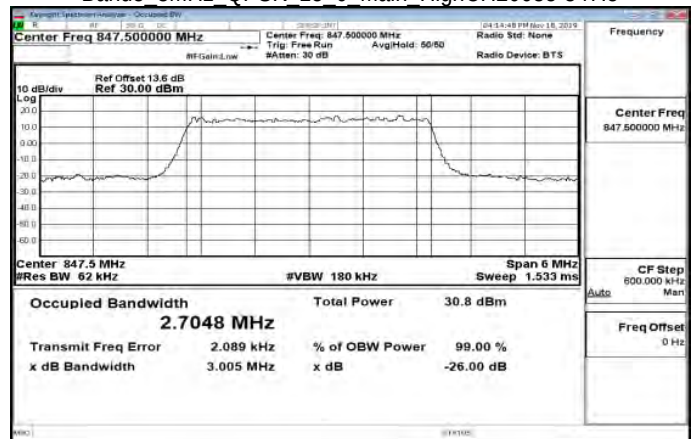
Band5 3MHz QPSK 15 0 Main MidCH20525-836.5



Band5 1 4MHz 256QAM 6 0 Main HighCH20643-848.3



Band5 3MHz QPSK 15 0 Main HighCH20635-847.5

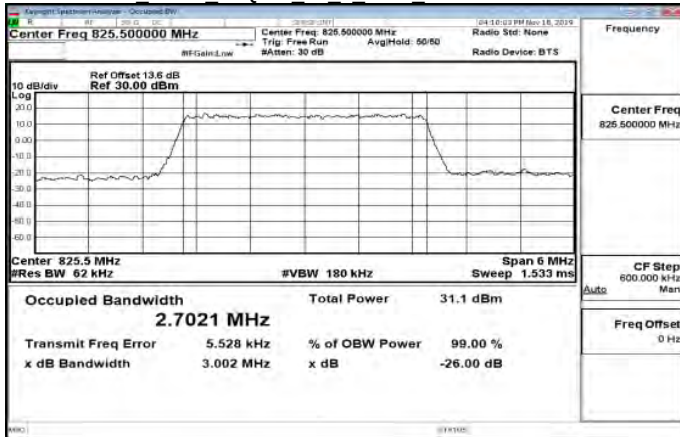


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

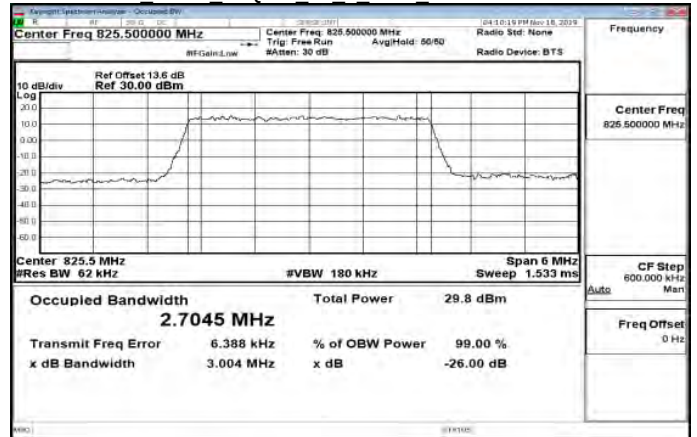
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

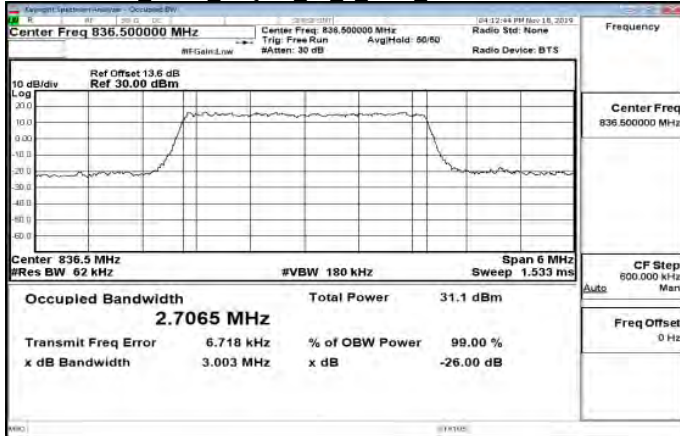
Band5 3MHz 16QAM 15 0 Main LowCH20415-825.5



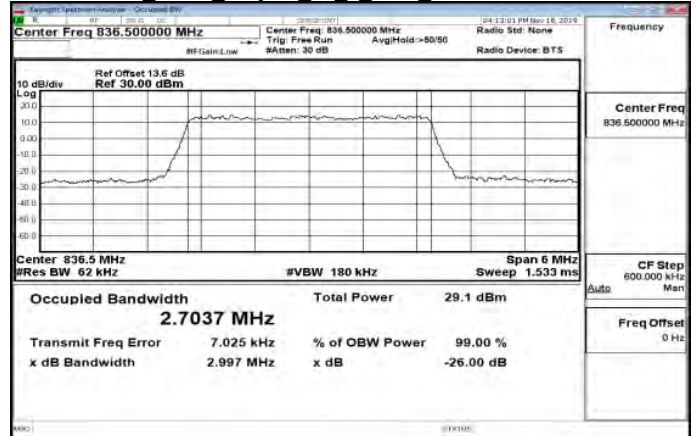
Band5 3MHz 64QAM 15 0 Main LowCH20415-825.5



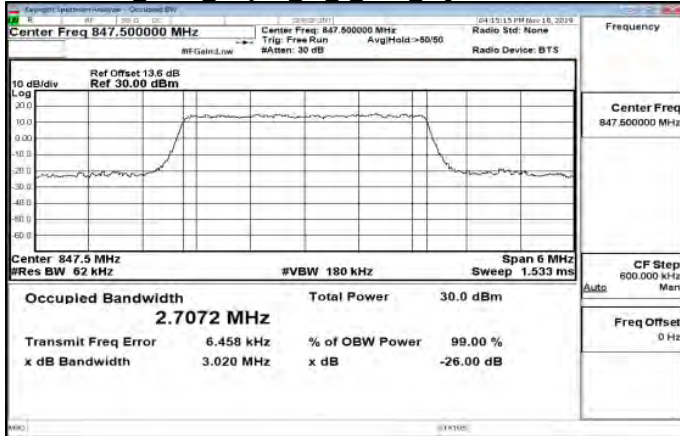
Band5 3MHz 16QAM 15 0 Main MidCH20525-836.5



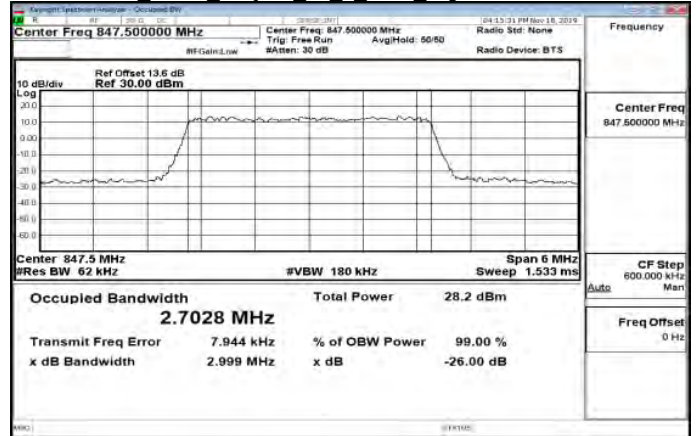
Band5 3MHz 64QAM 15 0 Main MidCH20525-836.5



Band5 3MHz 16QAM 15 0 Main HighCH20635-847.5



Band5 3MHz 64QAM 15 0 Main HighCH20635-847.5

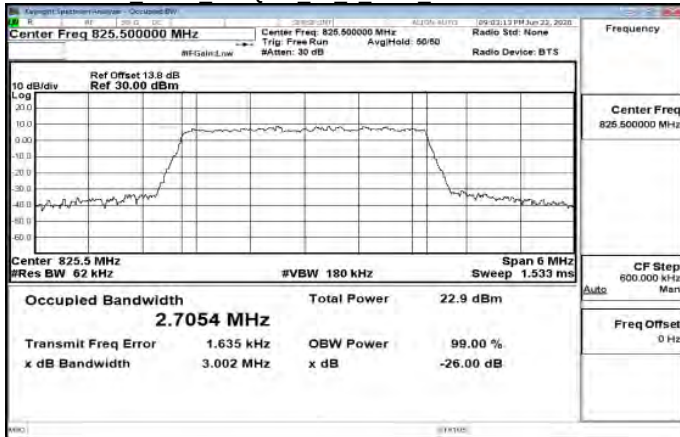


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

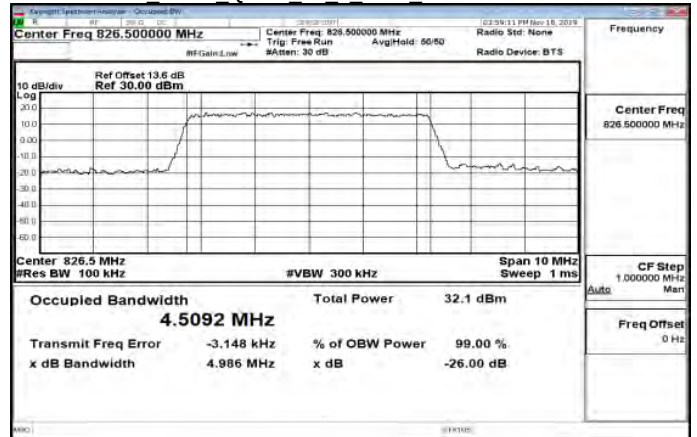
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

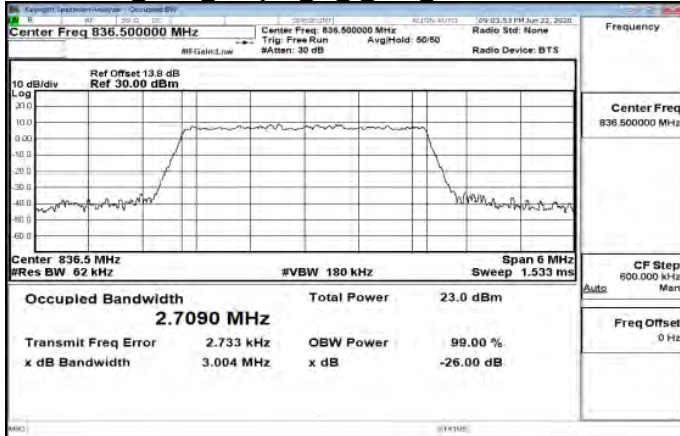
Band5 3MHz 256QAM 15 0 Main LowCH20415-825.5



Band5 5MHz QPSK 25 0 Main LowCH20425-826.5



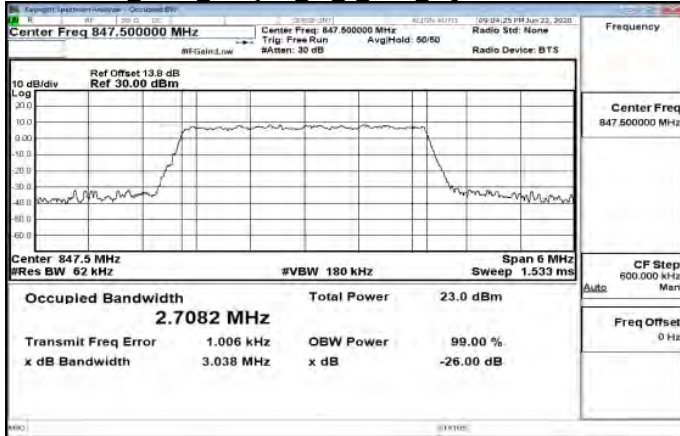
Band5 3MHz 256QAM 15 0 Main MidCH20525-836.5



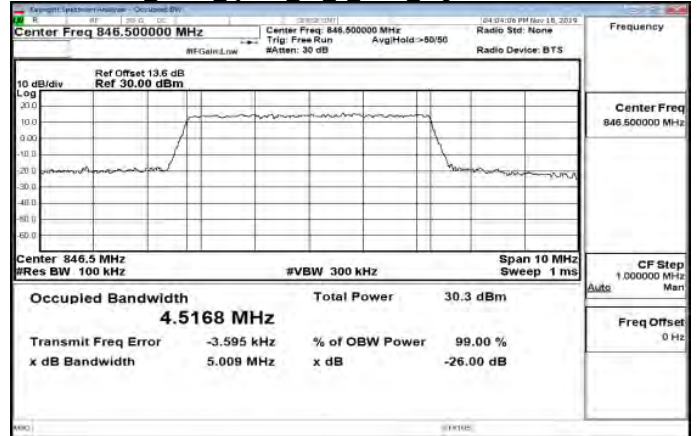
Band5 5MHz QPSK 25 0 Main MidCH20525-836.5



Band5 3MHz 256QAM 15 0 Main HighCH20635-847.5



Band5 5MHz QPSK 25 0 Main HighCH20625-846.5

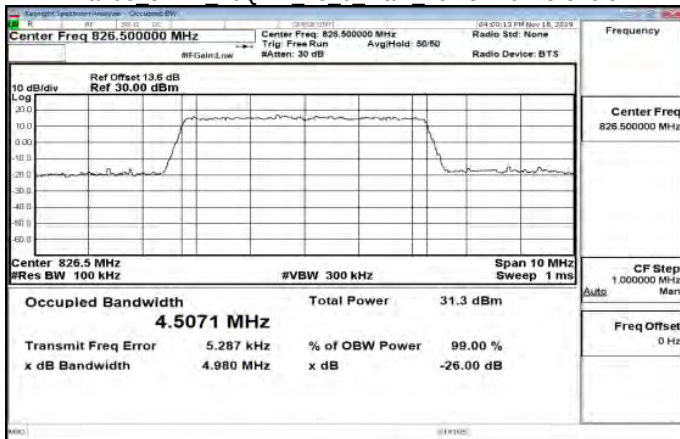


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

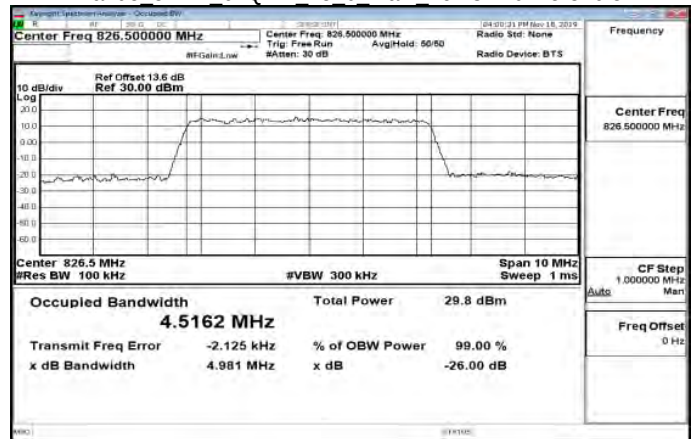
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

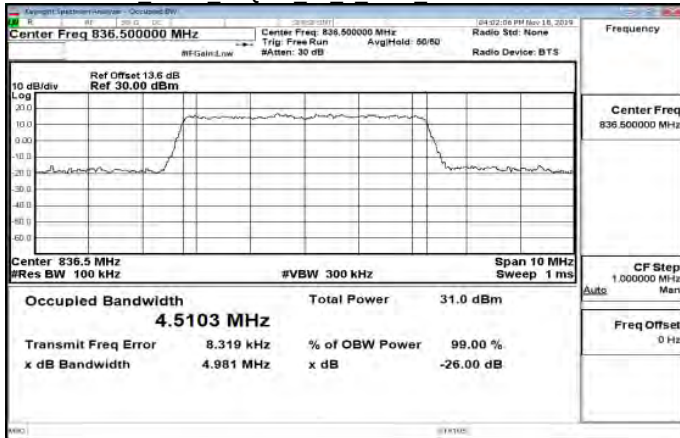
Band5 5MHz 16QAM 25 0 Main LowCH20425-826.5



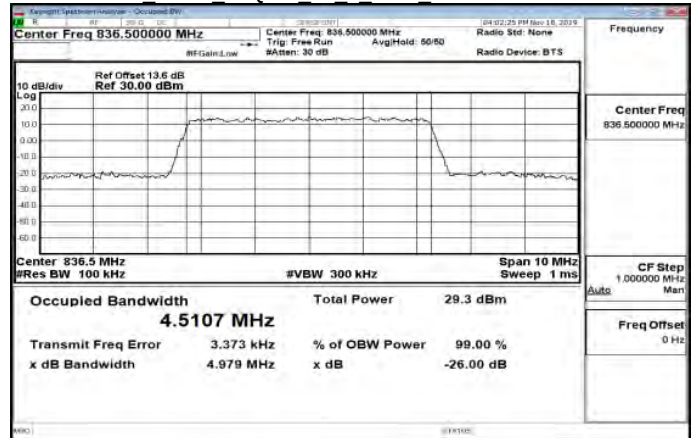
Band5 5MHz 64QAM 25 0 Main LowCH20425-826.5



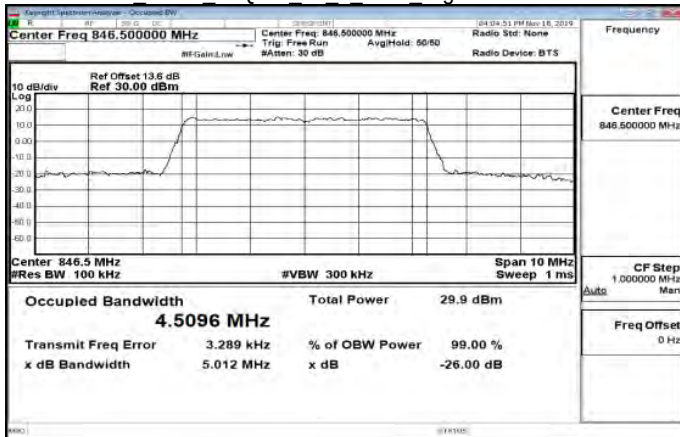
Band5 5MHz 16QAM 25 0 Main MidCH20525-836.5



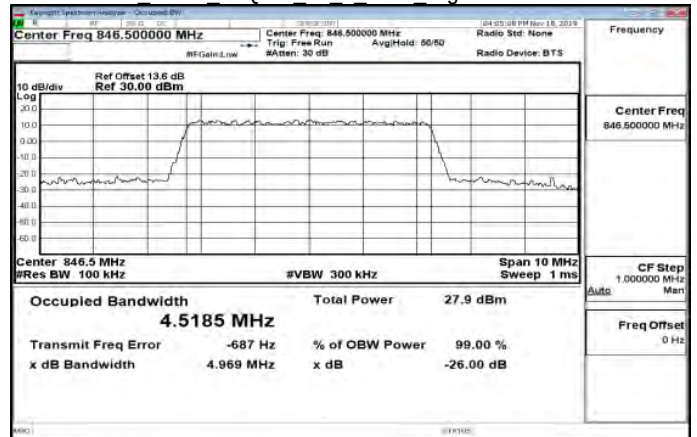
Band5 5MHz 64QAM 25 0 Main MidCH20525-836.5



Band5 5MHz 16QAM 25 0 Main HighCH20625-846.5



Band5 5MHz 64QAM 25 0 Main HighCH20625-846.5

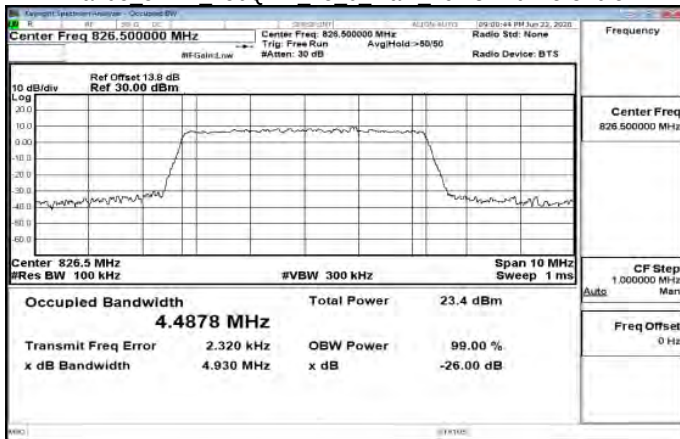


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

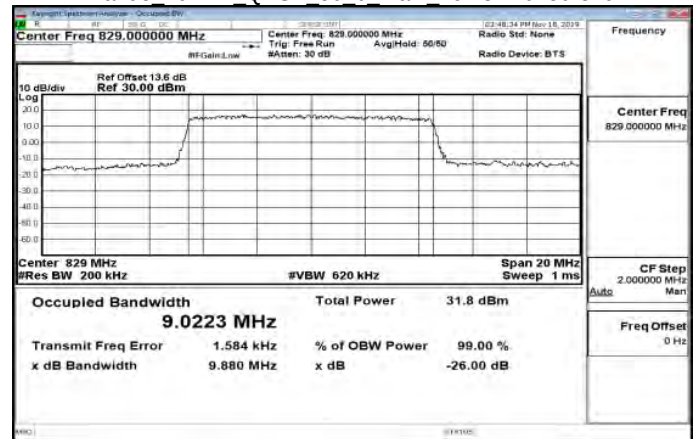
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

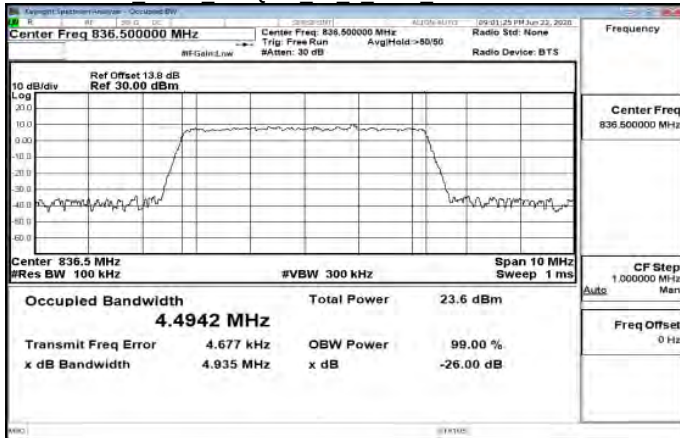
Band5 5MHz 256QAM 25 0 Main LowCH20425-826.5



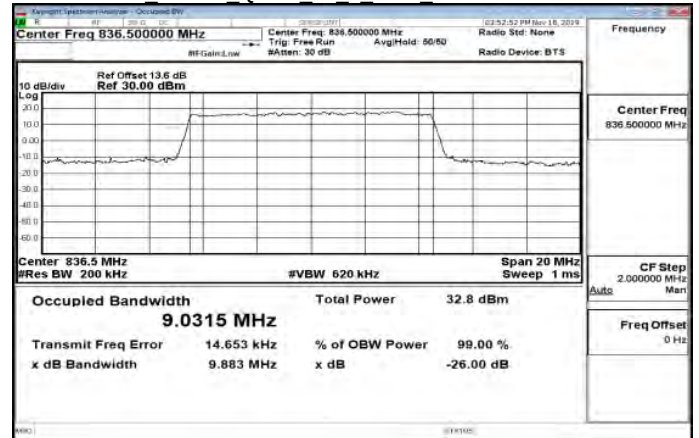
Band5 10MHz QPSK 50 0 Main LowCH20450-829



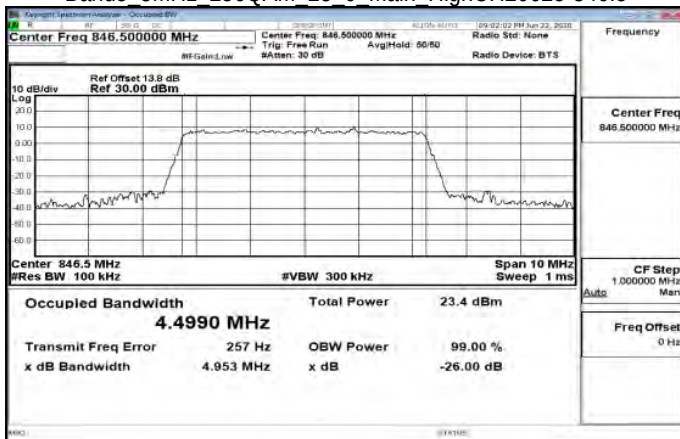
Band5 5MHz 256QAM 25 0 Main MidCH20525-836.5



Band5 10MHz QPSK 50 0 Main MidCH20525-836.5



Band5 5MHz 256QAM 25 0 Main HighCH20625-846.5



Band5 10MHz QPSK 50 0 Main HighCH20600-844

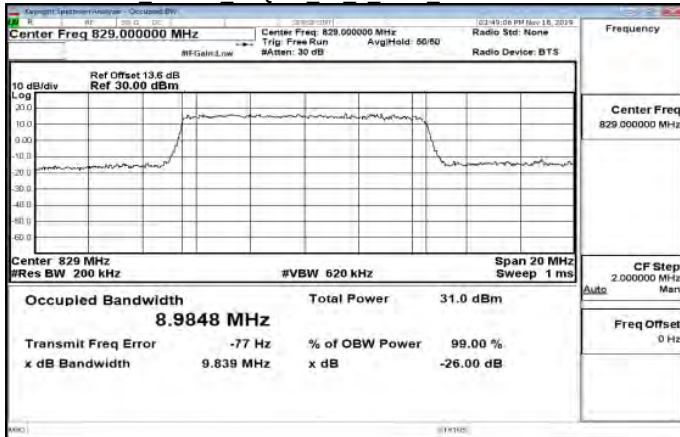


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

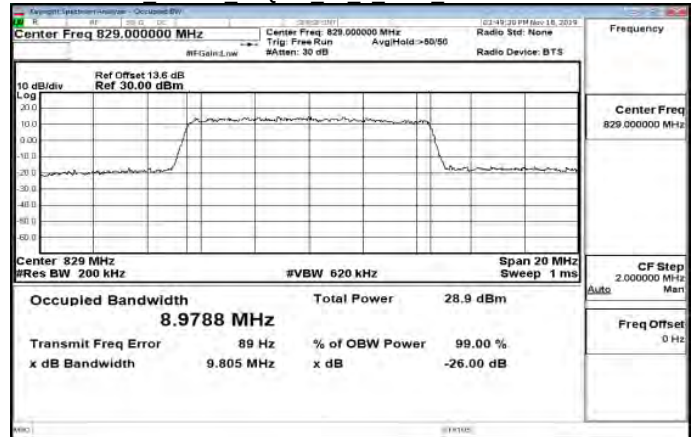
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

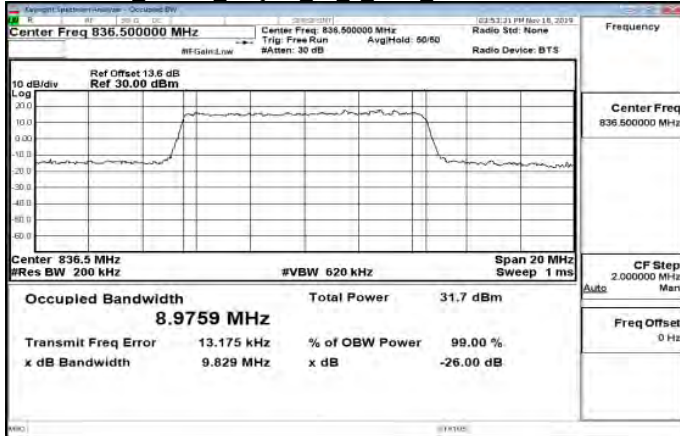
Band5 10MHz 16QAM 50 0 Main LowCH20450-829



Band5 10MHz 64QAM 50 0 Main LowCH20450-829



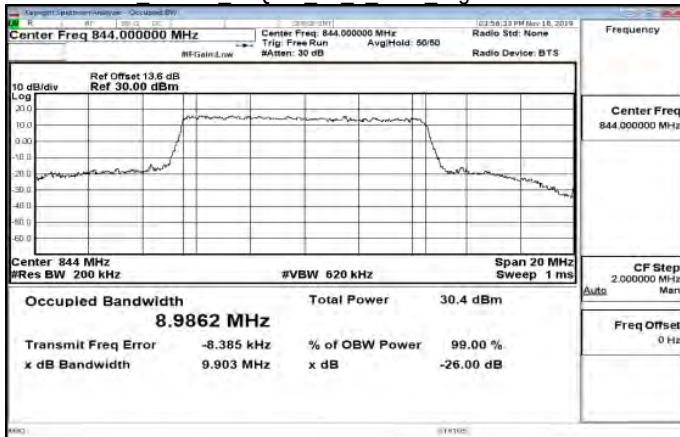
Band5 10MHz 16QAM 50 0 Main MidCH20525-836.5



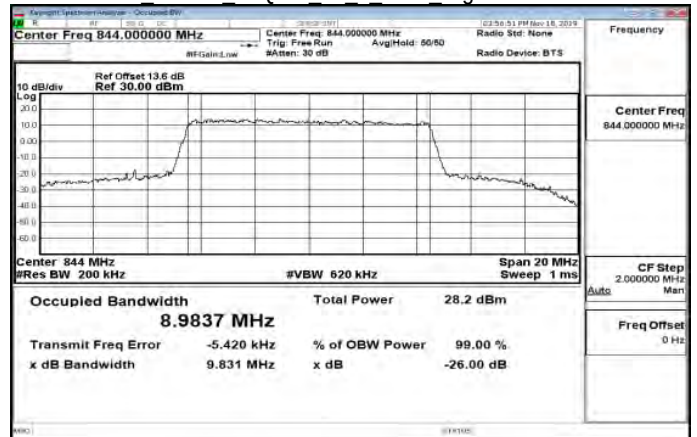
Band5 10MHz 64QAM 50 0 Main MidCH20525-836.5



Band5 10MHz 16QAM 50 0 Main HighCH20600-844



Band5 10MHz 64QAM 50 0 Main HighCH20600-844

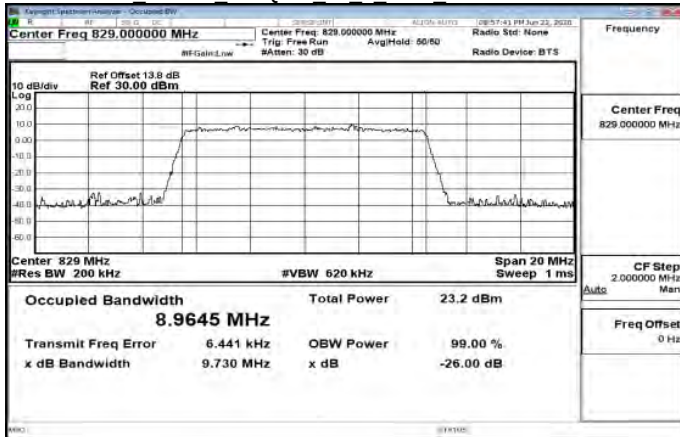


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

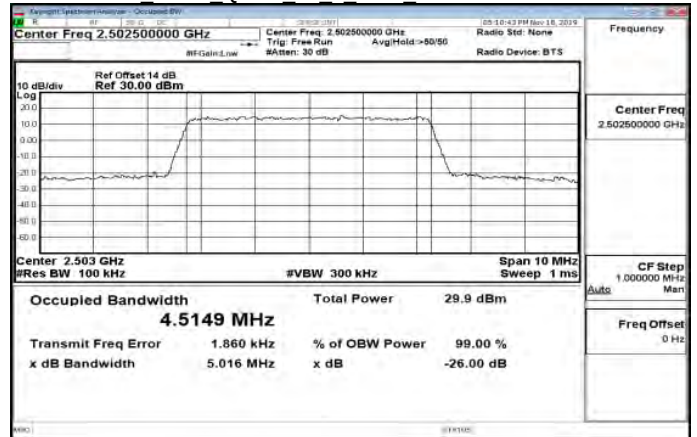
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

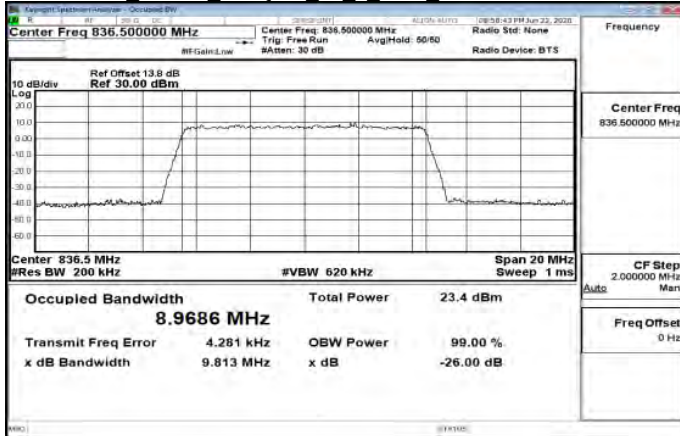
Band5 10MHz 256QAM 50 0 Main LowCH20450-829



Band7 5MHz QPSK 25 0 Main LowCH20775-2502.5



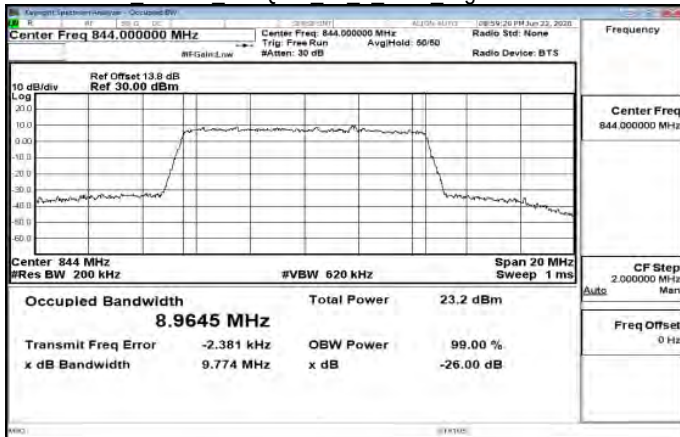
Band5 10MHz 256QAM 50 0 Main MidCH20525-836.5



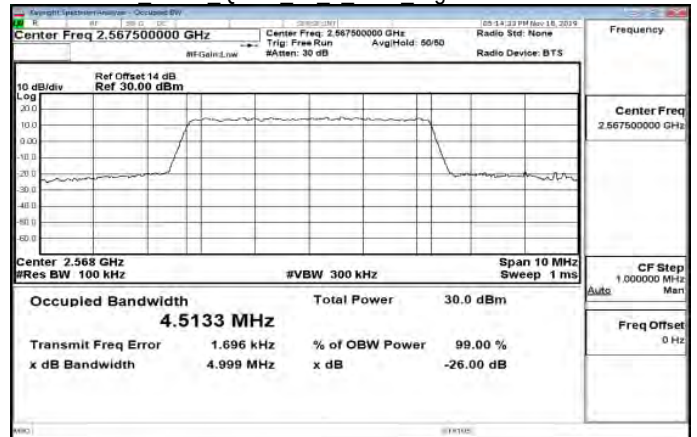
Band7 5MHz QPSK 25 0 Main MidCH21100-2535



Band5 10MHz 256QAM 50 0 Main HighCH20600-844



Band7 5MHz QPSK 25 0 Main HighCH21425-2567.5



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>. 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 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.

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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

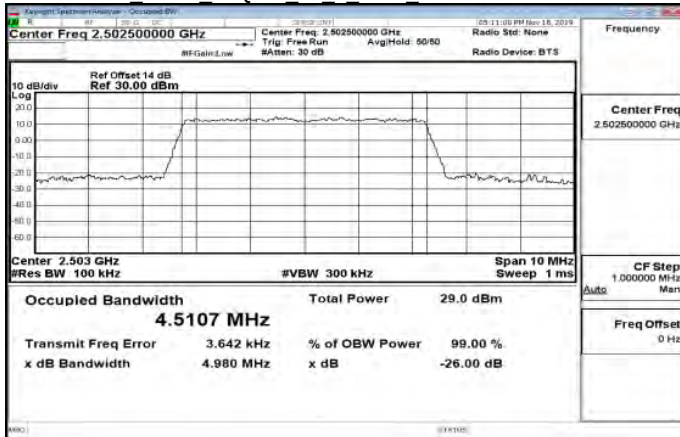
t (886-2) 2299-3279

f (886-2) 2298-0488

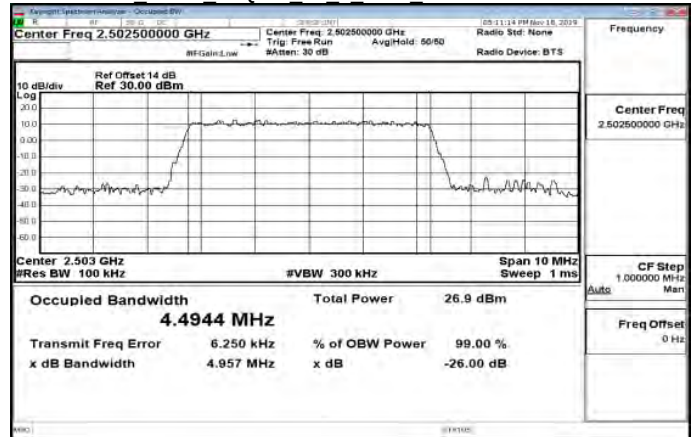
www.sgs.com.tw

Member of SGS Group

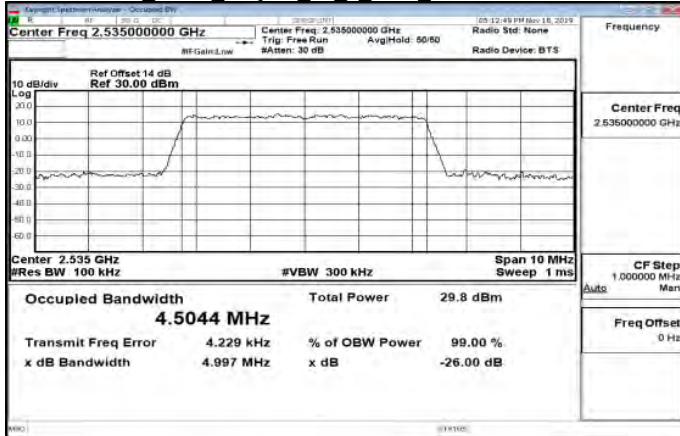
Band7 5MHz 16QAM 25 0 Main LowCH20775-2502.5



Band7 5MHz 64QAM 25 0 Main LowCH20775-2502.5



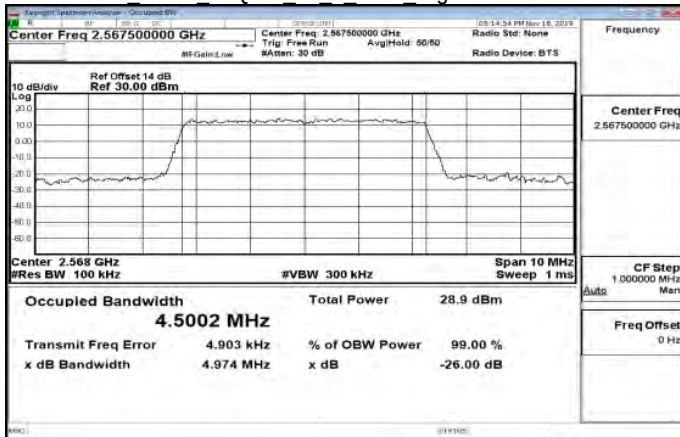
Band7 5MHz 16QAM 25 0 Main MidCH21100-2535



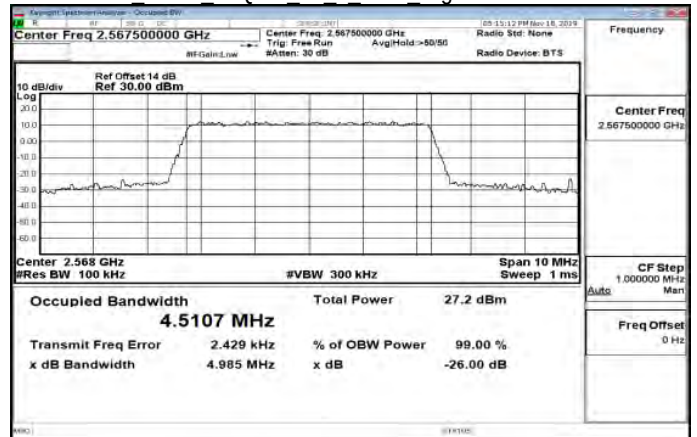
Band7 5MHz 64QAM 25 0 Main MidCH21100-2535



Band7 5MHz 16QAM 25 0 Main HighCH21425-2567.5



Band7 5MHz 64QAM 25 0 Main HighCH21425-2567.5



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>. 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 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.

Band7 5MHz 256QAM 25 0 Main LowCH20775-2502.5



Band7 10MHz QPSK 50 0 Main LowCH20800-2505



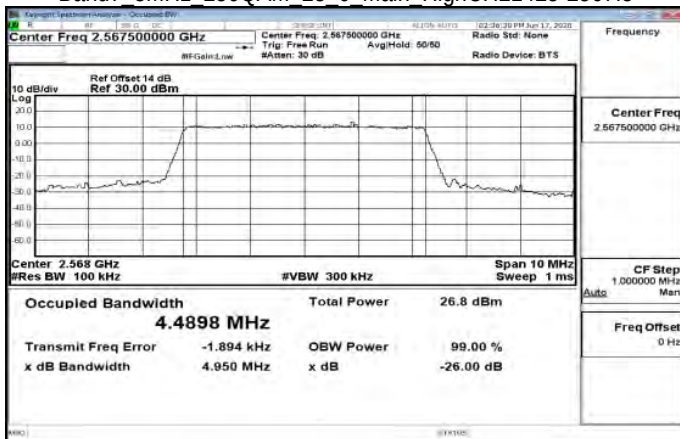
Band7 5MHz 256QAM 25 0 Main MidCH21100-2535



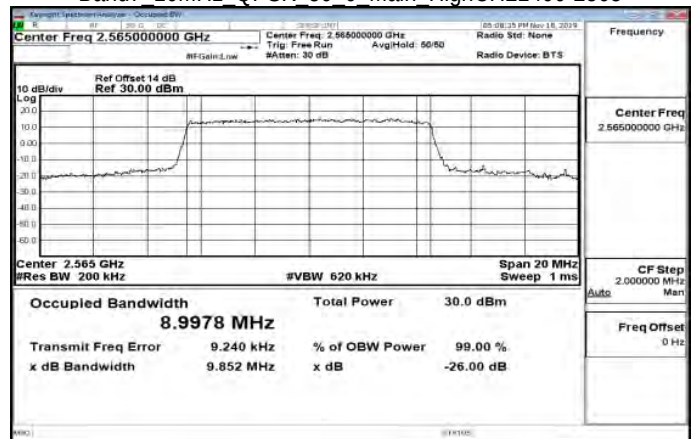
Band7 10MHz QPSK 50 0 Main MidCH21100-2535



Band7 5MHz 256QAM 25 0 Main HighCH21425-2567.5



Band7 10MHz QPSK 50 0 Main HighCH21400-2565

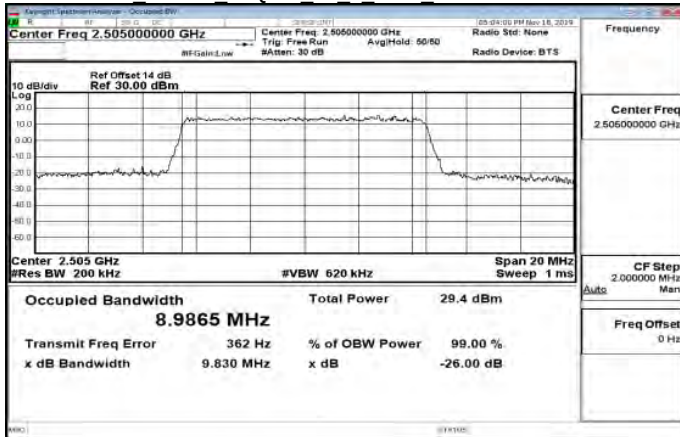


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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>. 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 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.

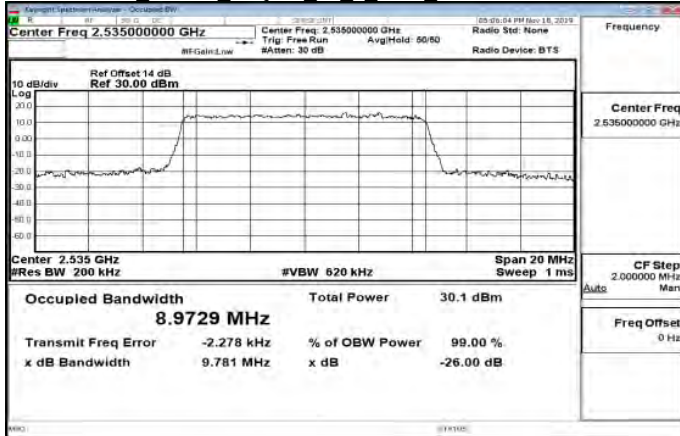
Band7 10MHz 16QAM 50 0 Main LowCH20800-2505



Band7 10MHz 64QAM 50 0 Main LowCH20800-2505



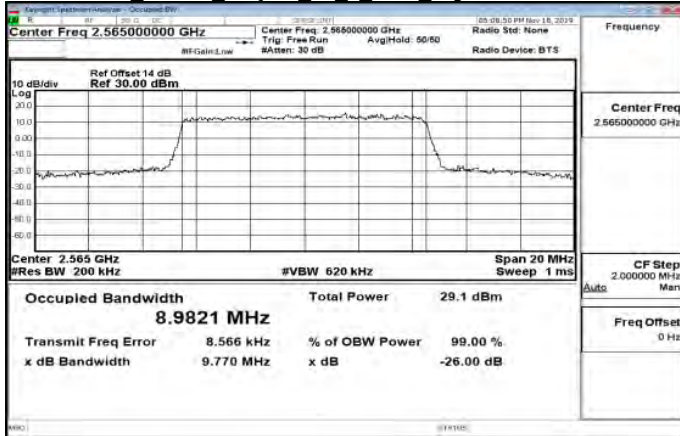
Band7 10MHz 16QAM 50 0 Main MidCH21100-2535



Band7 10MHz 64QAM 50 0 Main MidCH21100-2535



Band7 10MHz 16QAM 50 0 Main HighCH21400-2565



Band7 10MHz 64QAM 50 0 Main HighCH21400-2565

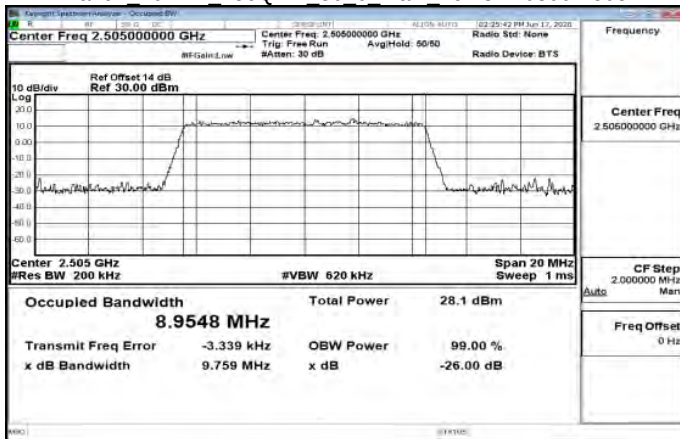


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

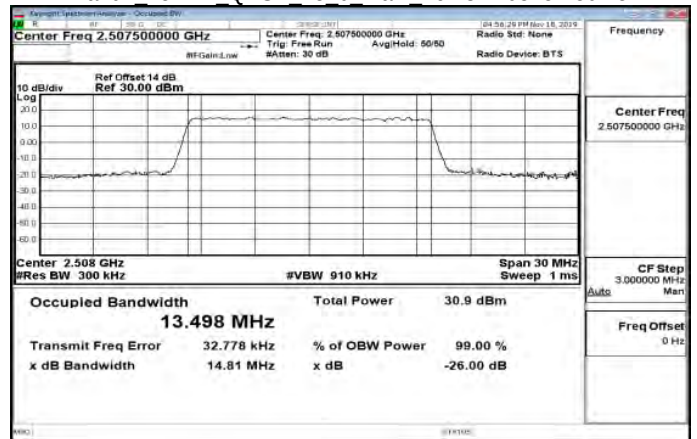
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

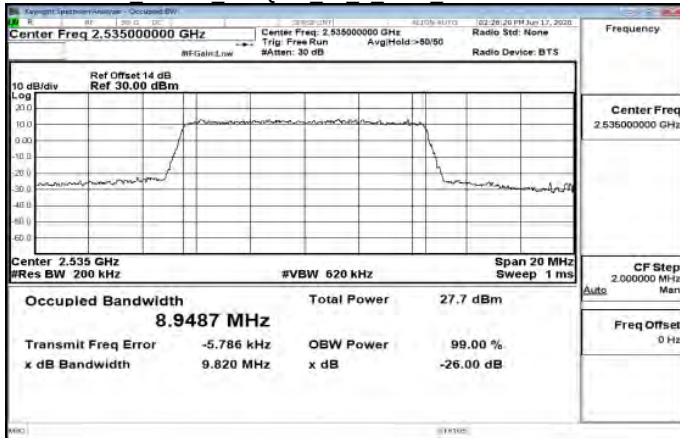
Band7 10MHz 256QAM 50 0 Main LowCH20800-2505



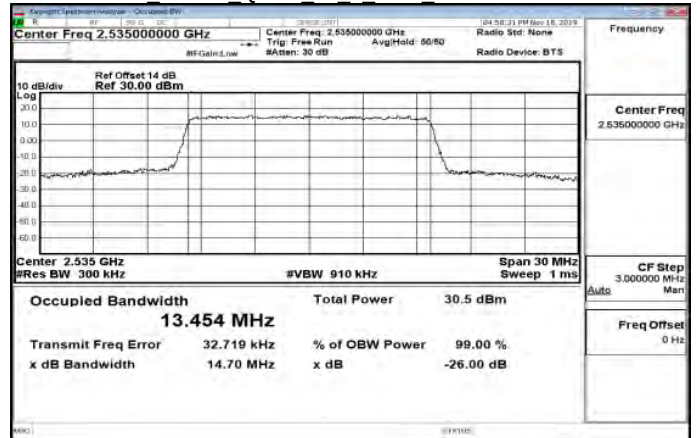
Band7 15MHz QPSK 75 0 Main LowCH20825-2507.5



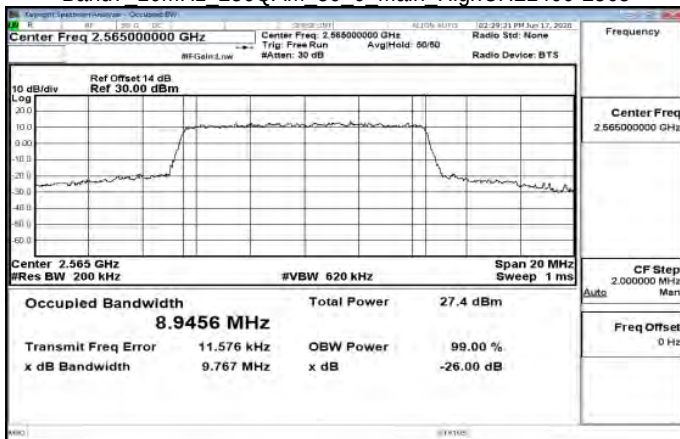
Band7 10MHz 256QAM 50 0 Main MidCH21100-2535



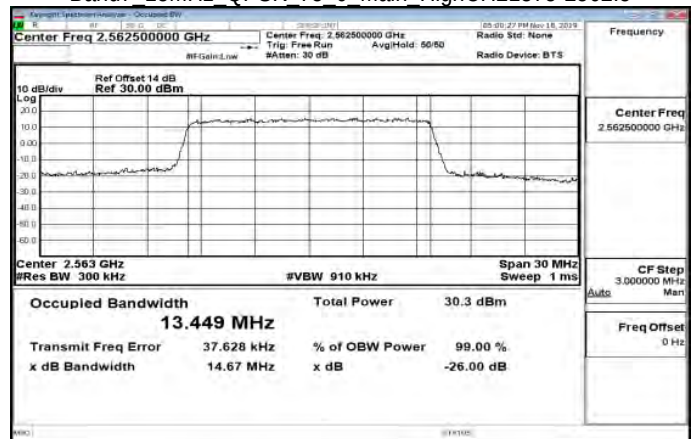
Band7 15MHz QPSK 75 0 Main MidCH21100-2535



Band7 10MHz 256QAM 50 0 Main HighCH21400-2565



Band7 15MHz QPSK 75 0 Main HighCH21375-2562.5

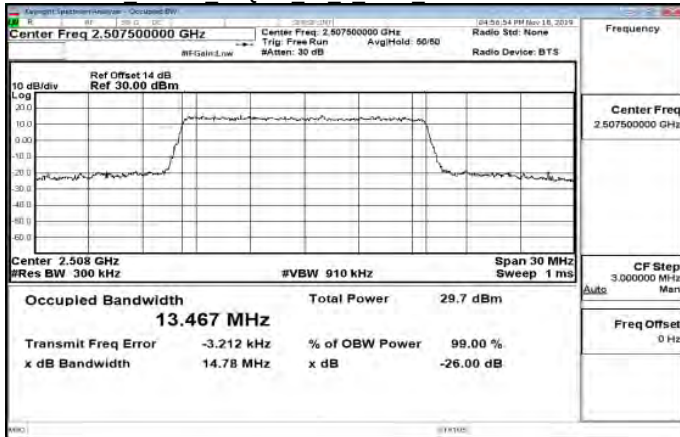


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

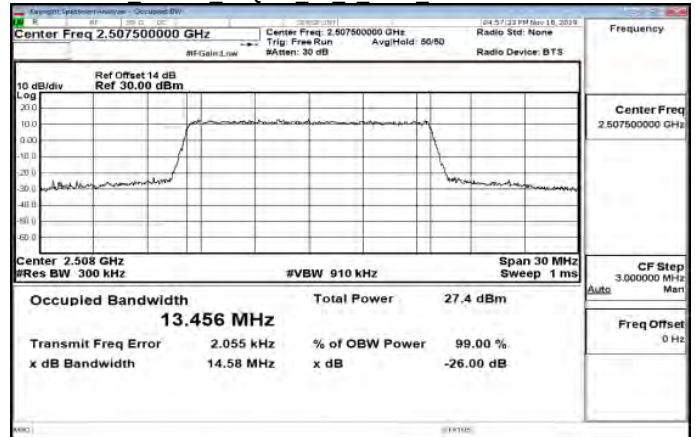
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

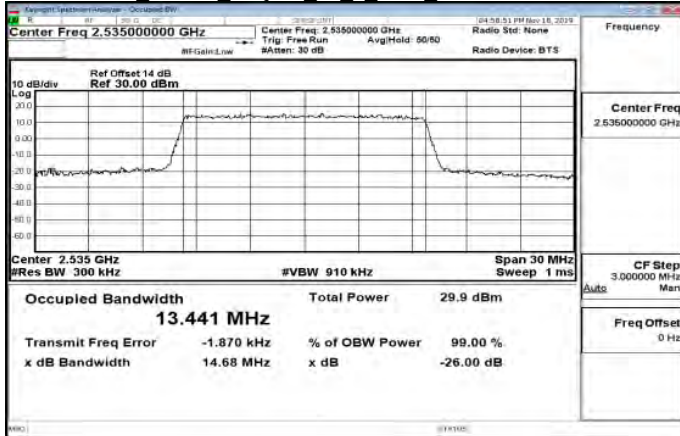
Band7 15MHz 16QAM 75 0 Main LowCH20825-2507.5



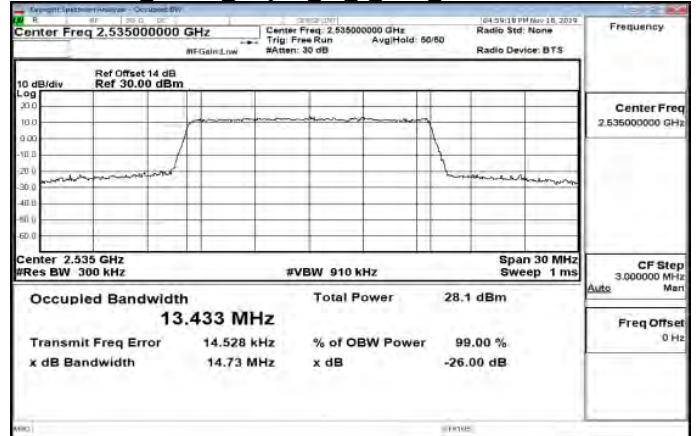
Band7 15MHz 64QAM 75 0 Main LowCH20825-2507.5



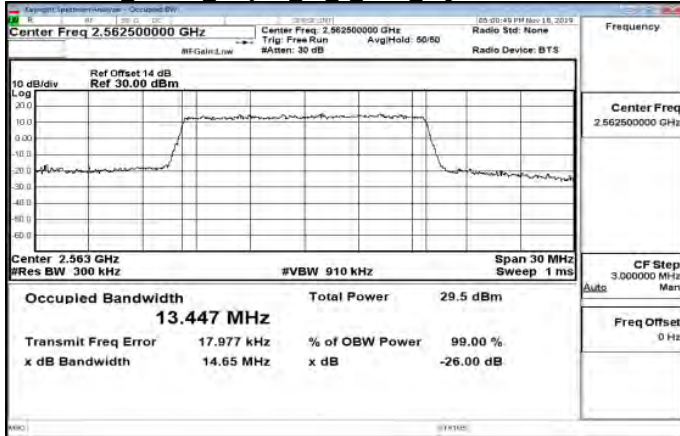
Band7 15MHz 16QAM 75 0 Main MidCH21100-2535



Band7 15MHz 64QAM 75 0 Main MidCH21100-2535



Band7 15MHz 16QAM 75 0 Main HighCH21375-2562.5



Band7 15MHz 64QAM 75 0 Main HighCH21375-2562.5



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.

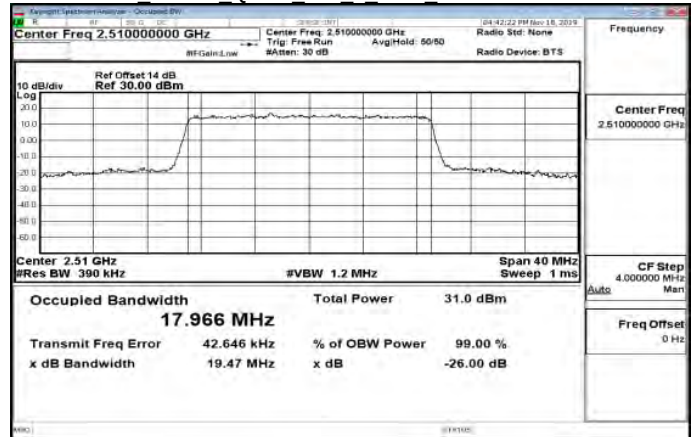
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

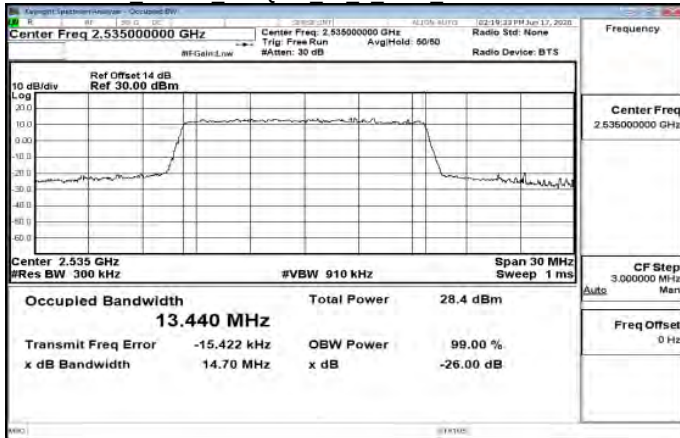
Band7 15MHz 256QAM 75 0 Main LowCH20825-2507.5



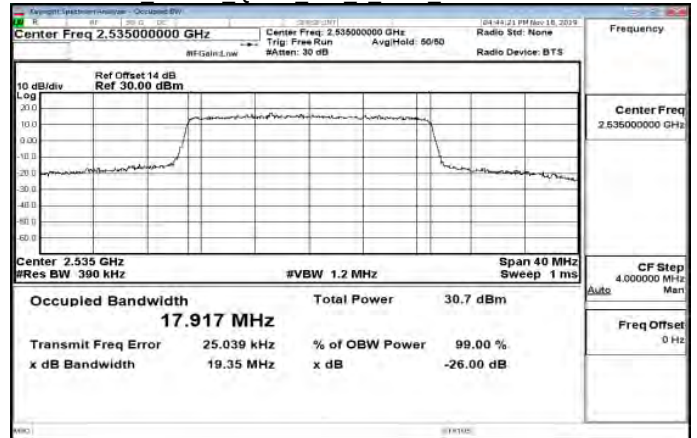
Band7 20MHz QPSK 100 0 Main LowCH20850-2510



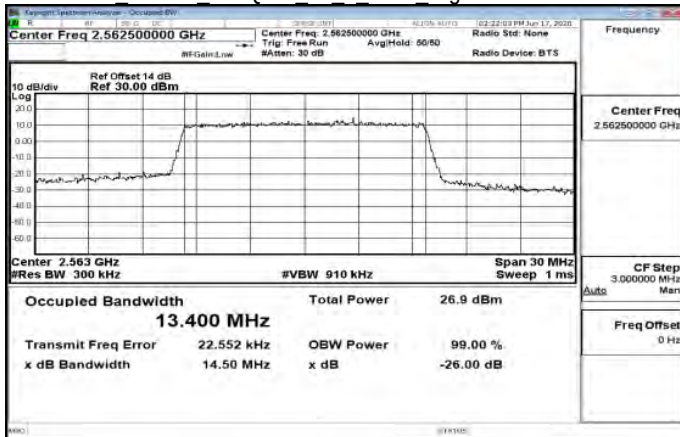
Band7 15MHz 256QAM 75 0 Main MidCH21100-2535



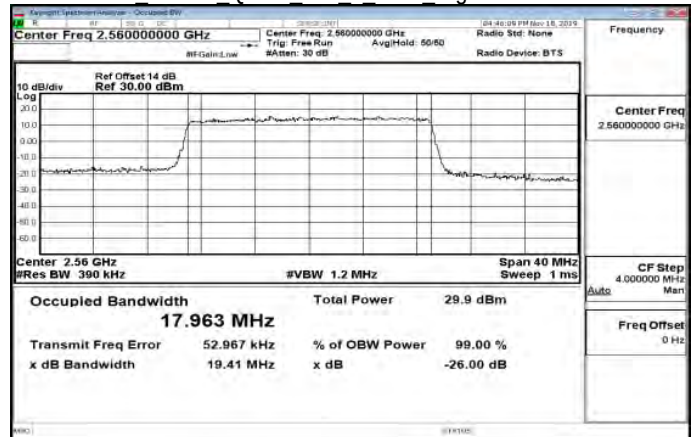
Band7 20MHz QPSK 100 0 Main MidCH21100-2535



Band7 15MHz 256QAM 75 0 Main HighCH21375-2562.5



Band7 20MHz QPSK 100 0 Main HighCH21350-2560

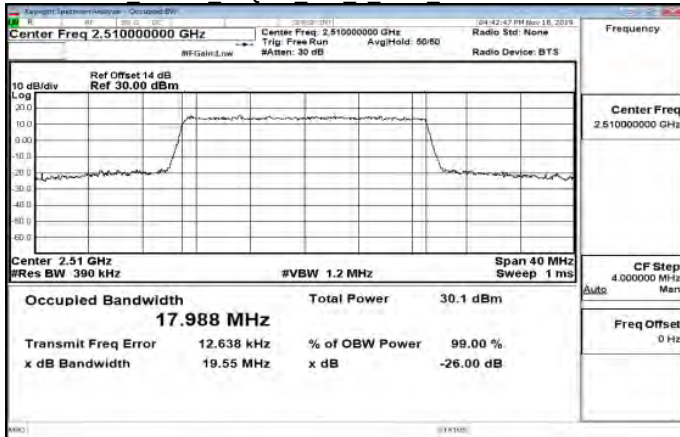


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

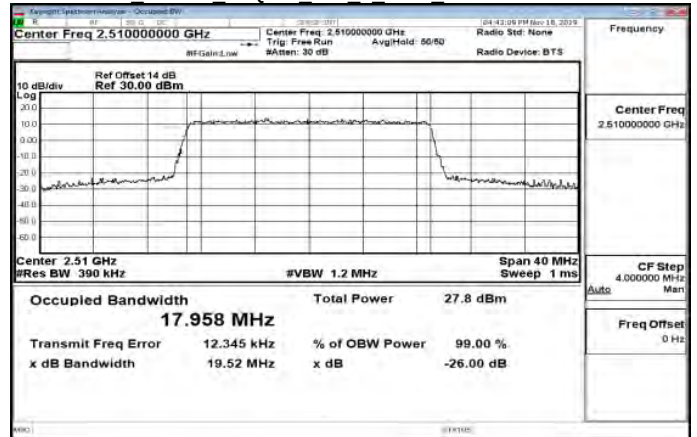
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. 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 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.

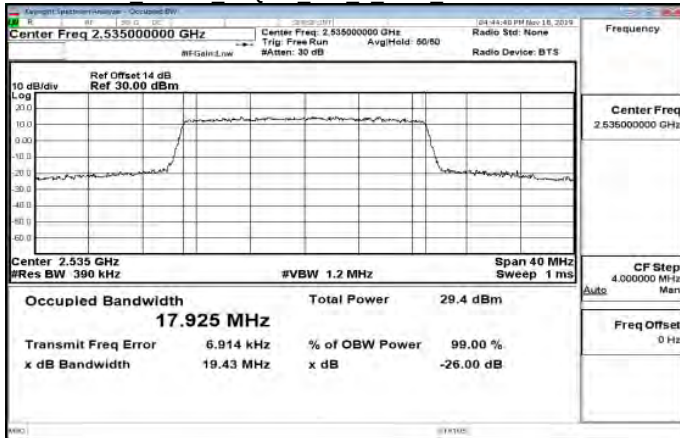
Band7 20MHz 16QAM 100 0 Main LowCH20850-2510



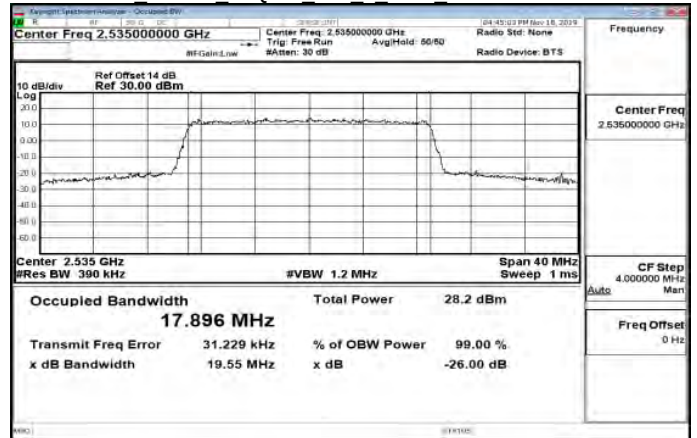
Band7 20MHz 64QAM 100 0 Main LowCH20850-2510



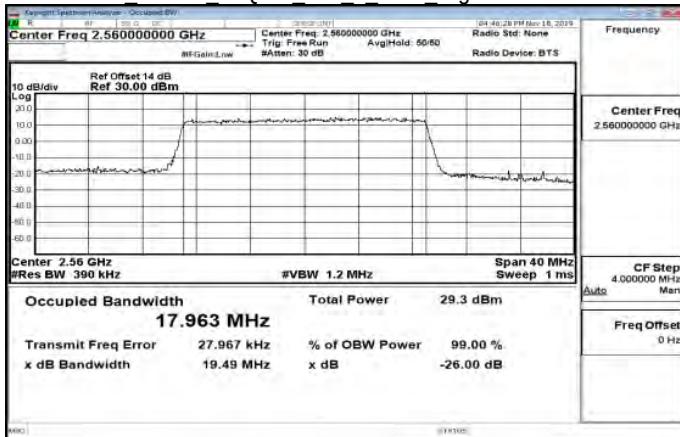
Band7 20MHz 16QAM 100 0 Main MidCH21100-2535



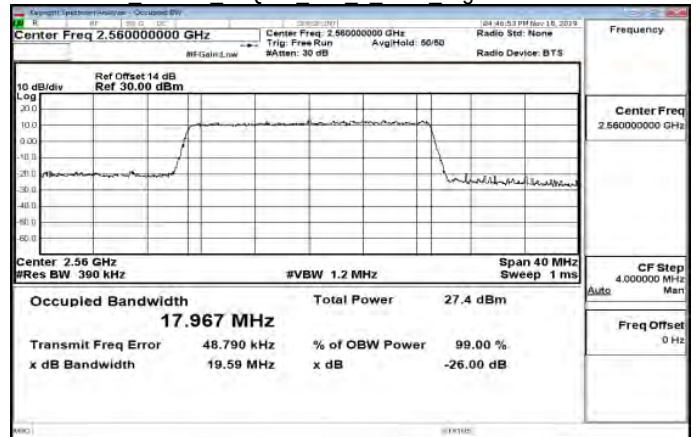
Band7 20MHz 64QAM 100 0 Main MidCH21100-2535



Band7 20MHz 16QAM 100 0 Main HighCH21350-2560



Band7 20MHz 64QAM 100 0 Main HighCH21350-2560



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>. 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 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.