

ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**



Applicant:	Quanta Computer Inc. No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City 33377, Taiwan
Manufacturer:	Quanta Computer Inc. No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City 33377, Taiwan
Product Name:	Clover Mini
Brand Name:	Clover
Model No.:	C305
Model Difference:	N/A
Report Number:	E2/2022/20117
FCC ID	HFS-C305
IC:	1787B-C305
Issue Date:	April 14, 2022
Date of Test:	March 9, 2022 ~ March 25, 2022
Date of EUT Received:	February 22, 2022

Approved By

Jay Lin

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 C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407, ISED RSS-247.

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

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

解決分有説明・比較告結果僅對測試乙後結員貢・同時比較結晶保留90天。本報告未經本公司書面計可,不可部份復製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sqs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sqs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document to 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.



Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
E2/2022/20117	00	Original	April 14, 2022	Yuri Tsai			

Note:

1 . The remark "*" indicates modification of the report upon requests from certification body.



Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	9
3	SUMMARY OF TEST RESULT	.12
4	DESCRIPTION OF TEST MODES	.13
5	MEASUREMENT UNCERTAINTY	.16
6	MEASUREMENT EQUIPMENT USED	.17
7	CONDUCTED EMISSION TEST	.19
8	EMISSION BANDWIDTH MEASUREMENT	.23
9	MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT	.63
10	MAXIMUM POWER SPECTRAL DENSITY	.87
11	UNDESIRABLE RADIATED EMISSION MEASUREMENT	110
12	TRANSMISSION IN THE ABSENCE OF DATA	270
13	ANTENNA REQUIREMENT	271



GENERAL INFORMATION 1

1.1 **Product Description**

Product Name:	Clover Mini
Brand Name:	Clover
Model No.:	C305
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	C035UT20430016
Power Supply:	12V from Adapter
Test Software (Name/Version)	QRCT / 4.0.00163.0

1.2 **Modulation & Data Rate**

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac
	256QAM, 1024QAM for OFDMA in 802.11ax
	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: 6.5 - 144.4 Mbps
Transition Rate:	802.11 n_40MHz: 13.5 - 300 Mbps
	802.11 ac_20MHz: 6.5 - 173.4 Mbps
	802.11 ac_40MHz: 13.5 - 400 Mbps
	802.11 ac_80MHz: 29.3 - 866.6 Mbps

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei I	ndustrial Park, Wuku District, New Taipe	ei 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



1.3 **Antenna Designation**

Antenna Type	Freq. (MHz)	Main / Aux	Peak Antenna Gain (dBi)	Directional Gain (dBi)
	5150~5250		2.77	5.62
DIEA	5250~5350	Main	2.45	5.20
PIFA	5470~5725		2.81	5.85
	5725~5850		3.47	6.24
	5150~5250		2.45	5.62
PIFA	5250~5350	Aux	1.92	5.20
	5470~5725		2.86	5.85
	5725~5850		2.99	6.24

Note:

- 1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
- 2. Antenna information is provided by the applicant.



1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/	5180~5240	4	16.44 dBm	OFDM
n_HT/	5260~5320	4	20.49 dBm	OFDM
ac_VHT 20M	5500~5720	12	20.48 dBm	OFDM
20101	5745-5825	5	20.47 dBm	OFDM
	5190~5230	2	15.45 dBm	OFDM
n_HT/ ac_VHT	5270~5310	2	19.45 dBm	OFDM
40M	5510~5710	6	19.48 dBm	OFDM
	5755-5795	2	19.47 dBm	OFDM
	5210	1	15.41 dBm	OFDM
ac_VHT	5290	1	18.43 dBm	OFDM
80M	5530~5690	3	18.44 dBm	OFDM
	5775	1	18.47 dBm	OFDM



1.5 ISED

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)		Modulation Technology
	5180~5240	4	EIRP	21.01	dBm	OFDM
a/	5260~5320	4	Avg	20.49	dBm	OFDM
n_HT/	5500~5700	11	Avg	20.48	dBm	OFDM
ac_VHT 20M	5720 (U-NII 2C)	1	Avg	19.03	dBm	OFDM
20101	5720 (U-NII 3)	1	Avg	14.88	dBm	OFDM
	5745-5825	5	Avg	20.47	dBm	OFDM
	5190~5230	2	EIRP	21.07	dBm	OFDM
	5270~5310	2	Avg	19.45	dBm	OFDM
n_HT/ ac_VHT	5510~5670	5	Avg	19.48	dBm	OFDM
40M	5710 (U-NII 2C)	1	Avg	18.85	dBm	OFDM
	5710 (U-NII 3)	1	Avg	10.70	dBm	OFDM
	5755-5795	2	Avg	19.47	dBm	OFDM
	5210	1	EIRP	21.03	dBm	OFDM
	5290	1	Avg	18.43	dBm	OFDM
ac_VHT	5530~5610	2	Avg	18.44	dBm	OFDM
80M	5690 (U-NII 2C)	1	Avg	17.96	dBm	OFDM
	5690 (U-NII 3)	1	Avg	9.01	dBm	OFDM
	5775	1	Avg	18.47	dBm	OFDM

SGS Taiwan Ltd.

www.sgs.com.tw



1.6 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 FCC KDB 662911 D01 Multiple Transmitter Output v02r01 RSS-247 issue 2 Feb. 2017 RSS-Gen, Issue 5 (Amendment 2, February 2021) ANSI C63.10:2013

1.7 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier			
		SAC 1					
		SAC 3					
		Conduction 1					
	No.134, Wu Kung Road, New Taipei	Conducted 1					
	Industrial Park, Wuku District, New	Conducted 2	TW0027				
	Taipei City, Taiwan.	Conducted 3		TW3702			
		Conducted 4					
		Conducted 5]				
SGS Taiwan Ltd.		Conducted 6					
Central RF Lab.	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	-				
(TAF code 3702)		SAC C					
		SAC D					
		SAC G					
		Conducted A					
		Conducted B	TW0028				
	labydan City, Taiwan 555	Conducted C					
		Conducted D					
		Conducted E	-				
		Conducted F]				
Conducted G							
Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.							

1.8 Special Accessories

There are no special accessories used while test was conducted.

1.9 Equipment Modifications

There was no modification incorporated into the EUT.

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 document is unlawful and offenders may be prosecuted to the fullest extent of the law.



SYSTEM TEST CONFIGURATION 2

EUT Configuration 2.1

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**

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 **Test Procedure**

2.3.1 **Conducted Emissions**

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference 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 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.

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

SGS Taiwan Ltd.



2.4 Measurement Results Explanation Example

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

Radiated emission below 30MHz is measured in a 9m*6m*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.

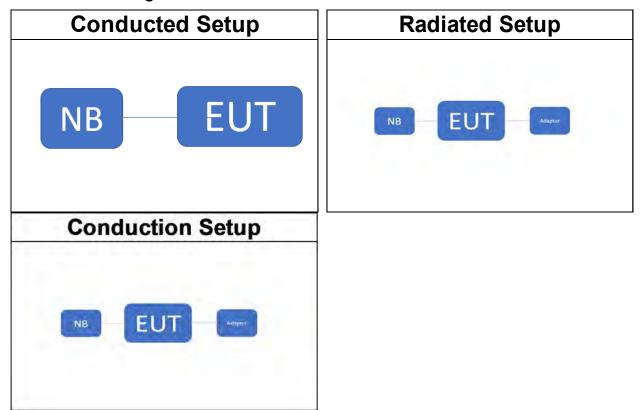
2.4.2 For all conducted test items:

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.

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。



2.5 **Test Configuration**



2.6 Control Unit(s)

	Conducted Emission Test Site: Conducted A						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Notebook	Lenovo	L480	PF-1PG38Y	N/A	N/A		
	Radia	ated Emission Tes	st Site: SAC D				
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Adapter	Clover	FSP040- RHBN3	N/A	N/A	N/A		
Notebook	Lenovo	T470	P0001293	N/A	N/A		
AC	Power-Line Co	onducted Emissio	n Test Site: Con	duction C			
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Adapter	Clover	FSP040- RHBN3	N/A	N/A	N/A		
Notebook	Lenovo	T470	P0001293	N/A	N/A		

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

t (886-2) 2299-3279

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。

解決另有說明・此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份視標。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



SUMMARY OF TEST RESULT 3

FCC Rules	ISED Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.407(e)	RSS-Gen §6.7 RSS-247 §6.2.4.1	Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emis- sions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Ab- sence of Information	Compliant
§15.203	N/A	Antenna Requirement	Compliant

Report No.: E2/2022/20117 Page: 13 of 271



DESCRIPTION OF TEST MODES 4

4.1 **Operating Frequencies**

Oper	Operated band in 5150 MHz ~5250 MHz:										
20 M			4	0 M	80 M						
СН	Freq (MHz)		СН	Freq (MHz)	СН	Freq (MHz)					
36	5180		38	5190	42	5210					
40	5200		46	5230							
44	5220										
48	5240										

Operated bar						
20 M						
СН	Freq (MHz)					
52	5260					
56	5280					
60	5300					
64	5320					

Ope	Operated band in 5250 MHz ~5350 MHz:									
20 M			40 M			80 M				
СН	Freq (MHz)		СН	Freq (MHz)		СН	Freq (MHz)			
52	5260		54	5270		58	5290			
56	5280		62	5310				-		
10	F200				-					

Operated band in 5470 MHz ~5725 MHz:

	20 M		4	0 M	8	0 M
СН	Freq		СН	Freq	СН	Freq
	(MHz)		_	(MHz)	011	(MHz)
100	5500		102	5510	106	5530
104	5520		110	5550	122	5610
108	5540		118	5590	138	5690
112	5560		126	5630		
116	5580		134	5670		
120	5600		142	5710		
124	5620				-	
128	5640					
132	5660					

5680

5700

5720

136

140

144

Operated band in 5725 MHz ~5850 MHz:

Ope	<u></u>									
20 M			4	0 M	8	0 M				
СН	Freq (MHz)		СН	Freq (MHz)	СН	Freq (MHz)				
149	5745		151	5755	155	5775				
153	5765		159	5795						
157	5785									
161	5805									
165	5825									

t (886-2) 2299-3279



4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

	Modulation			Tra	nsmiss	sion	Chain		Tr	Single ansmission Spatial	Multiple Transmission Spatial	
v	802.11 a	۷	Ch0	۷	Ch1		Ch2	Ch3	۷	1TX		2TX
v	802.11 n	۷	Ch0	۷	Ch1		Ch2	Ch3	V	SISO	۷	MIMO
v	802.11 ac	۷	Ch0	۷	Ch1		Ch2	Ch3	V	SISO	۷	MIMO
	802.11 ax		Ch0		Ch1		Ch2	Ch3		SISO		MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

	RADIATED EMISSION TEST (BELOW 1 GHz)										
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA					
MODE	BAND (MHz)	CHANNEL	CHANNEL	WIODULATION	(Mbps)	PORT					
	5180~5240	36 to 48	44		6	ch0					
802.11a	5260~5320	52 to 64	60	OFDM							
002.118	5500~5720	100 to 144	116								
	5745~5825	149 to 165	157								

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。



			ТГОТГО		DATA RATE	ANTENNA
MODE		AVAILABLE	TESTED	MODULATION		
	BAND (MHz)	CHANNEL	CHANNEL		(Mbps)	PORT
	5180~5240	36 to 48	36,44,48			
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	ch0
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5180~5240	36 to 48	36,44,48			
802.11n_HT20	5260~5320	52 to 64	52,60,64	OFDM	HT8	MIMO
002.1111_11120	5500~5720	100 to 144	100,116,140,144	012111		
	5745~5825	149 to 165	149,157,165			
	5190~5230	38 to 46	38,46			
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	HT8	MIMO
002.1111_11140	5510~5670	102 to 142	102,110,134,142	OI DIVI	1110	IVIIIVIO
	5755~5795	151 to 159	151,159			
	5210	42	42			
802.11ac_VHT80	5290	58	58	05014	VILTO	MIMO
	5530~5610	106 to 138	106,122,138	OFDM	VHT0	MIMO
	5775	155	155			
			CONDUCT	ED TEST		
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA
	BAND (MHz)	CHANNEL	CHANNEL		(Mbps)	PORT
	5180~5240	36 to 48	36,44,48			
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	ch0
002.110	5500~5720	100 to 144	100,116,140,144		v	0110
	5745~5825	149 to 165	149,157,165			
	5180~5240	36 to 48	36,44,48			
802.11n_HT20	5260~5320	52 to 64	52,60,64	OFDM	HT8	MIMO
002.1111_0120	5500~5720	100 to 144	100,116,140,144	OFDIM	ПІО	
	0000 0120	100 10 111	,,,			
	5745~5825	149 to 165	149,157,165			
000.44	5745~5825	149 to 165	149,157,165	0504	1170	MINO
802.11n_HT40	5745~5825 5190~5230	149 to 165 38 to 46	149,157,165 38,46	OFDM	HT8	MIMO
802.11n_HT40	5745~5825 5190~5230 5270~5310	149 to 165 38 to 46 54 to 62	149,157,165 38,46 54,62 102,110,134,142	OFDM	HT8	MIMO
802.11n_HT40	5745~5825 5190~5230 5270~5310 5510~5670 5755~5795	149 to 165 38 to 46 54 to 62 102 to 142	149,157,165 38,46 54,62	OFDM	HT8	MIMO
	5745~5825 5190~5230 5270~5310 5510~5670 5755~5795 5210	149 to 165 38 to 46 54 to 62 102 to 142 151 to 159	149,157,165 38,46 54,62 102,110,134,142 151,159 42			
802.11n_HT40 802.11ac_VHT80	5745~5825 5190~5230 5270~5310 5510~5670 5755~5795	149 to 165 38 to 46 54 to 62 102 to 142 151 to 159 42	149,157,165 38,46 54,62 102,110,134,142 151,159	OFDM	HT8 VHT0	MIMO

Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

155

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

155

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



MEASUREMENT UNCERTAINTY 5

Test Items	Uncertainty			
AC Power Line Conducted Emission	+/-	2.34	dB	
Output Power measurement	+/-	1	dB	
Emission Bandwidth	+/-	1.53	Hz	
Undesignable radiated emission measure- ment	+/-	1.68	dB	
Peak Power Density	+/-	1.62	dB	
Temperature	+/-	0.4	°C	
Humidity	+/-	3.5	%	
DC / AC Power Source	+/-	1	%	

Radiated Spurious Emission Measurement Uncertainty							
	+/-	2.57	dB	9kHz~30MHz			
Bolarization: Vartical	+/-	4.85	dB	30MHz - 1000MHz			
Polarization: Vertical	+/-	4.45	dB	1GHz - 18GHz			
	+/-	4.24	dB	18GHz - 40GHz			
	+/-	2.57	dB	9kHz~30MHz			
Polarization: Horizontal	+/-	4.37	dB	30MHz - 1000MHz			
	+/-	4.45	dB	1GHz - 18GHz			
	+/-	4.24	dB	18GHz - 40GHz			

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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.

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, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



MEASUREMENT EQUIPMENT USED 6

6.1 **Emission from AC power line**

AC	AC Power-Line Conducted Emission Test Site: Conduction C									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.					
LISN	SCHWARZBECK Mess- Elektronik	NSLK8127	974	04/19/2021	04/18/2022					
EMI Test Receiver	R&S	ESCI	101342	04/28/2021	04/27/2022					
Coaxial Cable	EC Lab	RF-HY-CAB- 250	RF-HY-CAB- 250-01	03/27/2021	03/26/2022					
Pulse Limiter	EC Lab	VTSD 9561F- N	485	03/27/2021	03/26/2022					
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R					

6.2 **Condcuted Measurement**

	Conducted Emission Test Site: Conducted A										
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.						
Power Meter	Anritsu	ML2496A	1326001	08/12/2021	08/11/2022						
Power Sensor	Anritsu	MA2411B	1315048	08/12/2021	08/11/2022						
Power Sensor	Anritsu	MA2411B	1315049	08/12/2021	08/11/2022						
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/06/2021	04/05/2022						
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R						
Attenuator	Marvelous	MVE2213-10	RF13	11/18/2021	11/17/2022						
Attenuator	Marvelous	MVE2213-10	RF14	11/18/2021	11/17/2022						
Attenuator	Marvelous	MVE2213-10	RF12	11/18/2021	11/17/2022						
DC Block	PASTERNACK	PE8210	RF151	11/18/2021	11/17/2022						

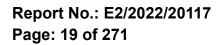


Radiated Measurement 6.3

Radiated Emission Test Site: SAC D						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/12/2021	11/11/2022	
Horn Antenna	Schwarzbeck	BBHA9170	185	08/06/2021	08/05/2022	
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/04/2021	06/03/2022	
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022	
3m Site NSA	SGS	966 chamber D	N/A	07/12/2021	07/11/2022	
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R	
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/01/2021	05/31/2022	
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022	
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/18/2021	11/17/2022	
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/18/2021	11/17/2022	
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/18/2021	11/17/2022	
Coaxial Cable	Huber Suhner	EMC106-SM- SM-7200	150703	11/18/2021	11/17/2022	
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/18/2021	11/17/2022	
Attenuator	Marvelous	WATT- 218FS-10	RF17	11/18/2021	11/17/2022	
Lowpass Filter	Woken	EWT-56-0019	RF173	11/18/2021	11/17/2022	
Notch Filter	Woken	EWT-14-0251	RF179	11/18/2021	11/17/2022	
Notch Filter	Woken	EWT-14-0275	RF180	11/18/2021	11/17/2022	
Notch Filter	Woken	EWT-14-0251	RF181	11/18/2021	11/17/2022	
Band Reject Filter	Titan Microwave Co. Ltd	T04N5725589 550S01	210519-2-2	07/27/2021	07/26/2022	

NOTE: N.C.R refers to Not Calibrated Required.

t (886-2) 2299-3279





CONDUCTED EMISSION TEST 7

Standard Applicable 7.1

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range		.imits JBuV)
MHz	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note		

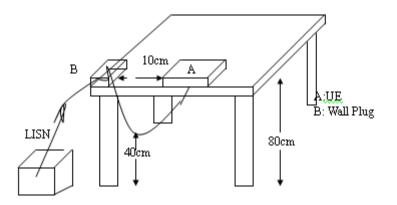
1. The lower limit shall apply at the transition frequencies

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

7.2 **EUT Setup**

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- The LISN was connected with 120Vac/60Hz power source.

7.3 **Test SET-UP**



7.4 **Measurement Procedure**

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- Repeat above procedures until all phases of power being supplied by given UE are completed.

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 號

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipe	ei 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

Report No.: E2/2022/20117 Page: 20 of 271



7.5 **Measurement Result**

Note: Refer to next page for measurement data and plots. Note2: The * reveals the worst-case results that closet to the limit.

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.

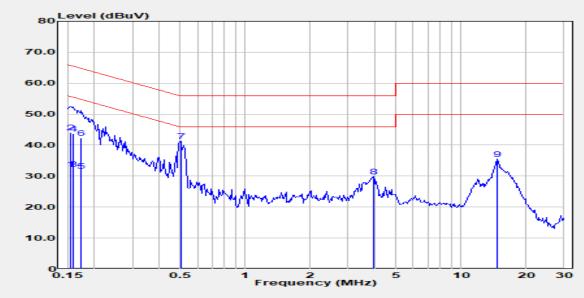
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

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



AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:E2/2022/20117	Test Site	:Conduction C
Test Mode	:5G	Test Date	:2022-03-21
Power	:120V/60Hz	Temp./Humi.	:21.3/66
Probe	:L1	Engineer	:Andy Wang
Note:	: Adapter:FSP040-RHBN3		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
 MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.155	Average	22.00	10.30	32.30	55.74	-23.44
0.155	QP	33.90	10.30	44.20	65.74	-21.54
0.160	Average	21.90	10.30	32.20	55.47	-23.27
0.160	QP	33.50	10.30	43.80	65.47	-21.67
0.174	Average	21.40	10.30	31.70	54.77	-23.07
0.174	QP	32.10	10.30	42.40	64.77	-22.37
0.502	Peak	30.95	10.31	41.26	56.00	-14.74
3.922	Peak	19.24	10.70	29.94	56.00	-26.06
14.750	Peak	24.75	10.78	35.53	60.00	-24.47

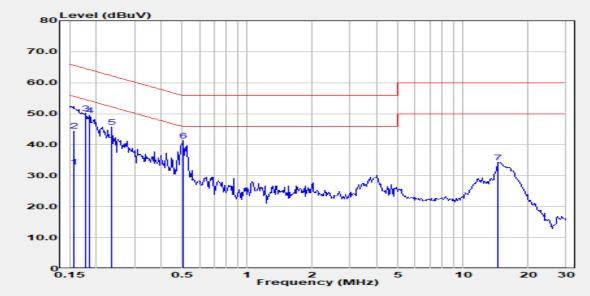
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei I	ndustrial Park, Wuku District, New Taipe	ei 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

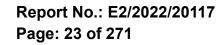


Report Number	:E2/2022/20117	Test Site	:Conduction C
Test Mode	:5G	Test Date	:2022-03-21
Power	:120V/60Hz	Temp./Humi.	:21.3/66
Probe	:N	Engineer	:Andy Wang
Note:	: Adapter:FSP040-RHBN3		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBμV	dB
0.156	Average	22.60	10.31	32.91	55.65	-22.74
0.156	QP	34.30	10.31	44.61	65.65	-21.04
0.178	Peak	39.89	10.30	50.20	64.59	-14.39
0.185	Peak	39.21	10.30	49.52	64.24	-14.72
0.237	Peak	35.44	10.30	45.74	62.22	-16.47
0.507	Peak	30.93	10.32	41.25	56.00	-14.75
14.440	Peak	23.41	10.86	34.27	60.00	-25.73

t (886-2) 2299-3279



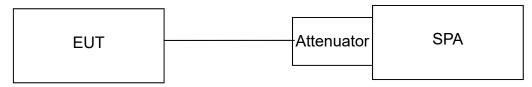


8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C. The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3.

8.2 Test Setup



8.3 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto,
 - Detector = Peak,

Trace Mode = Max Hold,

Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.

- 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
- 4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
- 5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = large enough to capture all products of the modulation process, Detector=Peak, Sweep=auto
 b. Mark the peak frequency and –6dB (upper and lower) frequency.
- For 99% Bandwidth: Set the spectrum analyzer as RBW = 1%.

VBW = 3*RBW

Span = large enough to capture all products of the modulation process, Detector=Sample,

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 <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, 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 fulles extent of the law.

Report No.: E2/2022/20117 Page: 24 of 271



Sweep=auto.

- 7. Turn on the 99% bandwidth function, max reading.
- 8. Repeat above procedures until all frequency of interest measured was complete.



8.4 **Measurement Result**

8.4.1 **FCC Occupied Bandwidth**

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.57	13.720
5220	22.54	13.530
5240	23.70	13.750
5260	22.70	13.560
5300	23.48	13.710
5320	23.48	13.710
5500	22.34	13.490
5580	21.64	13.350
5700	21.96	13.420
5720(U-NII 2C)	16.95	12.290
5720(U-NII 3)	6.95	8.420

802.11a_Ch1		
Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.57	13.720
5220	22.58	13.540
5240	21.32	13.290
5260	22.26	13.480
5300	21.11	13.240
5320	23.62	13.730
5500	22.68	13.560
5580	22.05	13.430
5700	23.02	13.620
5720(U-NII 2C)	16.15	12.080
5720(U-NII 3)	6.15	7.890
802.11a_Ch1		

6dB

BW

(MHz)

16.41

16.39

16.35

10 Log (B)

(dB)

12.150

12.150

12.140

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.94	12.020
5785	15.47	11.890
5825	15.40	11.880

Freq.

(MHz)

5745

5785

5825

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.33	< 5250
5745	5736.75	> 5725

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.33	< 5250
5745	5736.76	> 5725

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 <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Sees Taiwan Litdu - ND 134 Wu Kung Road New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/Két, # ##REFET# 134 #

SC	SS 1	laiwa	n Ltd.
台灣檢驗科	技服	(份有)	限公司



Report No.: E2/2022/20117 Page: 26 of 271

802.11n_HT20_Ch0

802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.25	13.270
5220	21.55	13.330
5240	21.74	13.370
5260	22.55	13.530
5300	22.76	13.570
5320	22.79	13.580
5500	21.66	13.360
5580	22.49	13.520
5700	23.08	13.630
5720(U-NII 2C)	16.55	12.190
5720(U-NII 3)	6.55	8.160

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.66	13.360
5220	21.73	13.370
5240	23.14	13.640
5260	23.52	13.710
5300	22.85	13.590
5320	23.12	13.640
5500	21.95	13.410
5580	25.08	13.990
5700	22.34	13.490
5720(U-NII 2C)	15.94	12.020
5720(U-NII 3)	5.94	7.730
802.11n_HT20_Ch1		

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.18	12.350
5785	15.95	12.030
5825	14.72	11.680

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.30	12.380
5785	16.92	12.280
5825	17.32	12.390

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.88	< 5250
5745	5736.17	> 5725

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.89	< 5250
5745	5736.17	> 5725

	SGS	Taiwa	ın L	.td.
台灣檢驗	科技服	股份有	限分	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



Report No.: E2/2022/20117 Page: 27 of 271

802.11n_HT40_Ch0

802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.41	16.060
5230	40.63	16.090
5270	40.14	16.040
5310	40.84	16.110
5510	40.37	16.060
5550	41.02	16.130
5670	41.27	16.160
5710(U-NII 2C)	35.41	15.490
5710(U-NII 3)	5.41	7.330
802 11n HT40 Ch0		

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	
5190	40.67	16.090	
5230	41.03	16.130	
5270	40.40	16.060	
5310	40.91	16.120	
5510	40.69	16.090	
5550	40.67	16.090	
5670	40.46	16.070	
5710(U-NII 2C)	35.42	15.490	
5710(U-NII 3)	5.42	7.340	
802.11n_HT40_Ch1			

802.11n_H140_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.13	15.460
5795	36.34	15.600

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.67	15.520
5795	35.18	15.460

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.10	< 5250
5755	5736.98	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.11	< 5250
5755	5736.98	> 5725

山灘協動社社駅公古国八司	
百得惊慌打伐成仍为 似公司	台灣檢驗科技股份有限公司

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



Report No.: E2/2022/20117 Page: 28 of 271

802.11ac_VHT80_Ch0

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.95	19.190
5290	90.55	19.570
5530	90.87	19.580
5610	90.01	19.540
5690(U-NII 2C)	80.25	19.040
5690(U-NII 3)	10.25	10.110

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	76.31	18.830

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.57	19.120
5290	89.65	19.530
5530	88.46	19.470
5610	90.25	19.550
5690(U-NII 2C)	80.18	19.040
5690(U-NII 3)	10.18	10.080

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.59	18.780

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.96	< 5250
5775	5737.20	> 5725

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.93	< 5250
5775	5737.24	> 5725

t (886-2) 2299-3279

SGS Taiwan Ltd.

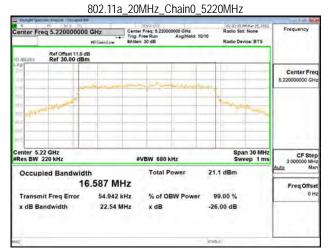
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488



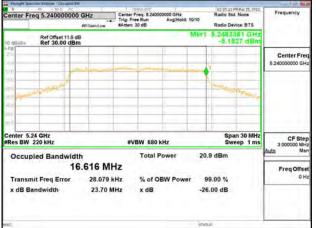
Report No.: E2/2022/20117 Page: 29 of 271

802.11a_20MHz_Chain0_5180MHz

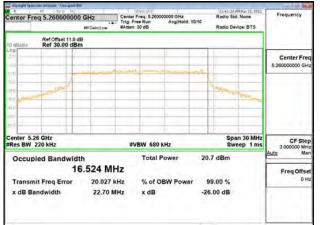


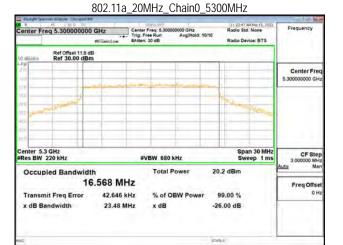


802.11a 20MHz Chain0 5240MHz

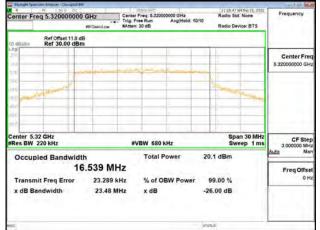








802.11a 20MHz Chain0 5320MHz



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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd	
台灣檢驗科技股份有限公司	J

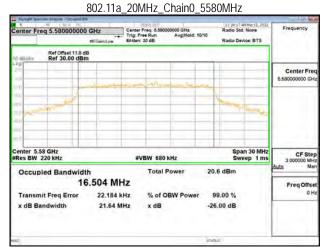
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488



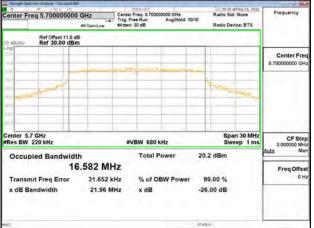
Report No.: E2/2022/20117 Page: 30 of 271

802.11a_20MHz_Chain0_5500MHz

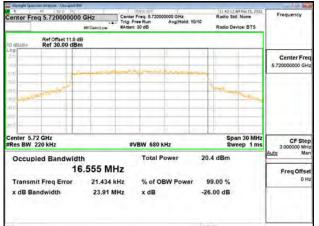
🚆 Kiyaget Saw	many Kindlyow - Occupied By	v			-		-		10 10 10
Center Fr	eq 5.500000000	GHz #FGainLow	Center Freq: 5.500500000 GHz Trig: Freq: Bun Avg/Hold: 10/10 #Atten: 30 dB			10	Radio Std		Frequency
10 mBillion	Ref Offset 11.8 dl Ref 30.00 dBn								
200 200 000			aire,	_	Le sole -				Center Freq 5.500000000 GHz
16x 110	- mark						-	en l	
-0.0									
Center 5.4 #Res BW			#VE	3W 680 kł	łz.	1		ın 30 MHz eep 1 ms	CF Step 3.000000 MHz
Occupied Bandwidth 16.499 MH			łz	Total Power 21.					Auto Man Freg Offset
	hit Freq Error andwidth	31.228 k 22.34 M		% of OB x dB	W Power		.00 % 00 dB		OHz
ukg						STATU			-

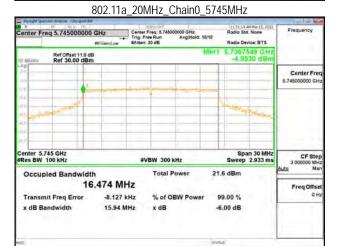


802.11a 20MHz Chain0 5700MHz

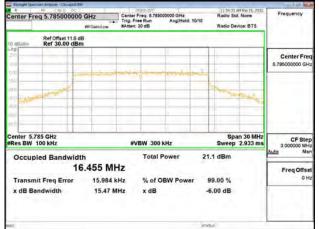








802.11a 20MHz Chain0 5785MHz



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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技用	B 份 有 限 公 司
The second se	~~~~~~~~~

SGS Taiwan Ltd.

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

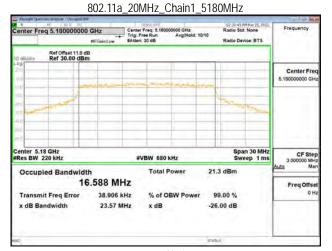
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 www.sgs.com.tw



Report No.: E2/2022/20117 Page: 31 of 271

802.11a_20MHz_Chain0_5825MHz

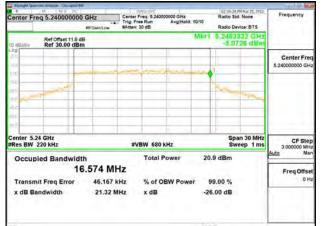


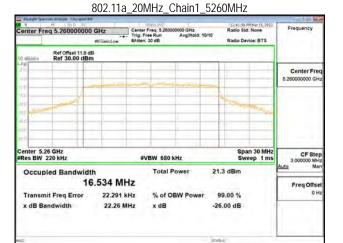


802.11a 20MHz Chain1 5220MHz

🚆 föysight Space	way Antiyow - Occupied By			-	-		10 10 10
Center Fre	eq 5.220000000	GHz #FGaintLow	Center Freq: 5.2200 Trig: Free Run #Atten: 30 dB	AvgiHold: 10/1	Radio Std: N Radio Device	lone	Frequency
voluien or	Ref Offset 11.8 dl Ref 30.00 dBn						
200 00 0.00			_				Center Fred 5.220000000 GHz
10.00 (11) (11)					-	-	
-0.0							
Center 5.2 #Res BW			#VBW 680	kHz		30 MHz	CF Step 3,000000 MH
Occupied Bandwidth 16.585 MH			Total Power 21.1 dBm			<u>A</u>	to Mar
	it Freq Error Indwidth	44.817 ki 22.58 Mi	Hz % of C	BW Power	99.00 % -26.00 dB	-	0 Hz
who:					internal		

802.11a_20MHz_Chain1_5240MHz





802.11a 20MHz Chain1 5300MHz

🚆 Kiyager Save	stuary Millinger - Occupied Bill	-							
Center Fr	eq 5.300000000	Oriz Trig.	rr Freq: 5.300000000 GHz Free Run AvgiHold: 1 n: 30 dB	D/10 Radio Std: None Radio Device: BTS	Frequency				
Ref Officet 11.8 dB to #BJ89v Ref 30.00 dBm Log F									
200			a man	-	Center Freq 5.300000000 GHz				
16.0	- marketter			and the second s					
-410									
Center 5.3				Span 30 MHz					
#Res BW	220 kHz	1	VBW 680 kHz	Sweep 1 ms	3.000000 MHz				
Occup	ied Bandwidt	h	Total Power	20.9 dBm	Auto Man				
	16	.566 MHz			Freq Offset				
Transmit Freq Error		18.267 kHz	% of OBW Power	99.00 %	0 Hz				
x dB B	andwidth	21.11 MHz	x dB	-26.00 dB					
wika'				878768					

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

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS	Taiwan Ltd.
台灣檢驗科技	股份有限公司

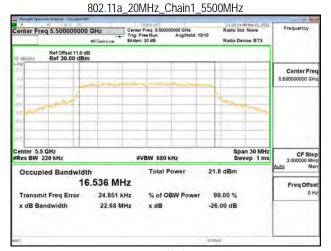
t (886-2) 2299-3279 f (886-2) 2298-0488



Report No.: E2/2022/20117 Page: 32 of 271

802.11a_20MHz_Chain1_5320MHz

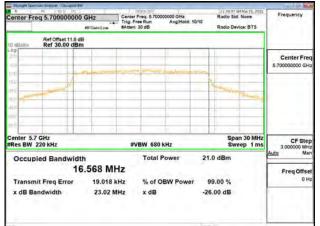
🚔 Alyager Sam	many Kindlyow - Occupied By	· · · · · · · · · · · · · · · · · · ·							10 10 10
Center Fr	eq 5.320000000	GHz	Center Freq 5 320000000 GHz Trig: Freq Run AvgiHold: 10/10 #Atten: 30 dB			210	Radio St	all star (5, 767) d: None evice: BTS	Frequency
10 dBillio	Ref Offset 11.8 dl Ref 30.00 dBn								
2700 200				_					Center Freq 5.32000000 GHz
0(4) 100	_					N	me.		
-0.0									
300 Å									
Center 5.3 #Res BW			#VE	SW 680 1	KHZ			an 30 MHz /eep 1 ms	CF Step 3.000000 MHz
Occupied Bandwidth 16,564 MH			Iz	Total Power 20.8 dBm					Auto Man Freg Offset
	hit Freq Error andwidth	22.516 k 23.62 M		% of O x dB	BW Power		00 %		OHz
end .						STATU	0		-

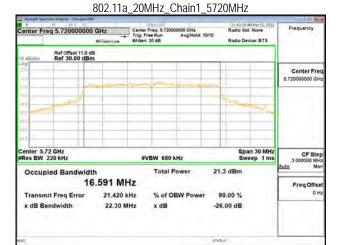


802.11a 20MHz Chain1 5580MHz

Average Spectrum	namy Kindyow - Occupied By	¥		-	12.00		
Center Fre	eq 5.580000000	IGHZ	Center Freq: 5. Trig: Free Run #Atten: 30 dB	SB0000000 GHz AvgiHold: 10	Radio St	akster (E. 767) d: None rvice: BTS	Frequency
10 dBillion	Ref Offset 11.8 dl Ref 30.00 dBn						
2m 00 0.0		Jan 19			~		Center Freq 5.580000000 GHz
16.00 1010 1010	and the second				-	Pin	
100 m/t							
Center 5.5 #Res BW			#VBW 6	i80 kHz		an 30 MHz /eep 1 ms	CF Step 3.000000 MHz
Occup	led Bandwidt			al Power	21.2 dBm		Auto Man
-		6.532 MH			- 200		Freq Offset
	it Freq Error andwidth	24.413 kł 22.05 Mł		of OBW Power B	99.00 % -26.00 dB		
end.					ITATUS		

802.11a_20MHz_Chain1_5700MHz





802.11a 20MHz Chain1 5745MHz



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

t (886-2) 2299-3279

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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

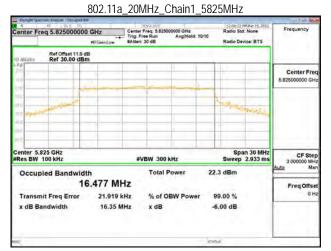
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488



Report No.: E2/2022/20117 Page: 33 of 271

802.11a_20MHz_Chain1_5785MHz

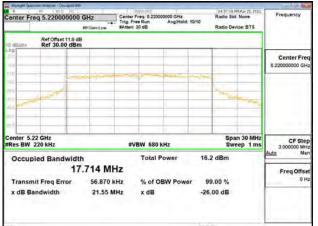
Aver See	many Analyzer - Occupied By	*	- Internet			The second second	to has been
Center Fr	eq 5.78500000	IGHz IFGainLive	Center Freq: 5.785000000 GHz			Radio Std: None Radio Device: BT	Frequency
10 dBiav	Ref Offset 11.8 d Ref 30.00 dBn						
200							Center Freq 5.785000000 GHz
	and the second second						
-40.0							
Center 5.7 #Res BW			#VBW :	300 kHz		Span 30 I Sweep 2.933	
Occup	Occupied Bandwidth 16.490 MH			tal Power	22	.0 dBm	Auto Man Freq Offset
		23.704 k 16.39 M	Hz % of OBW Power			99.00 % 5.00 dB	OHz
wind .					erro	M.	

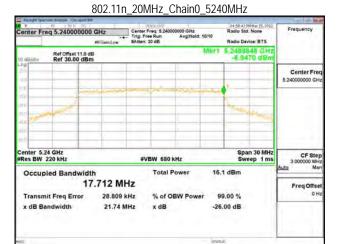


802.11n 20MHz Chain0 5180MHz

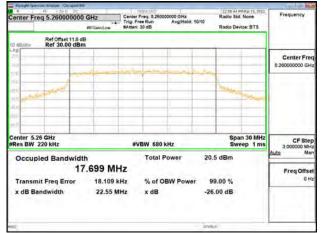








802.11n 20MHz Chain0 5260MHz



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

t (886-2) 2299-3279

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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

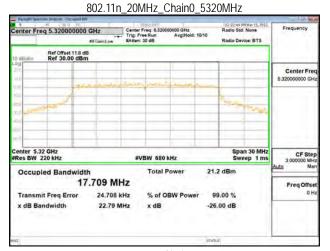
f (886-2) 2298-0488



Report No.: E2/2022/20117 Page: 34 of 271

802.11n_20MHz_Chain0_5300MHz

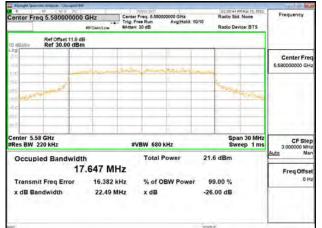
Aver See	nuev Krakow - Occupied Br	h				- In the law a suit	
Center Fr	eq 5.30000000	I GHz	Center Free SJ00000000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB			Radio Device: BTS	Frequency
VOILED OF	Ref Offset 11.8 d Ref 30.00 dBn			_			
100 00 000				man			Center Freq 5.30000000 GHz
10.00 1710 1710 ang 1 M	and the					- Condina	
41.0 100							
Center 5.3 #Res BW			#VBW	680 kHz		Span 30 MHz Sweep 1 ms	CF Step 3 000000 MHz
Occupied Bandwidth 17.708 MH				tal Power	21	.1 dBm	Auto Mar
Transmit Freq Error 21.466 k		21.466 ki 22.76 Mi	Hz % of OBW Power 9			9.00 % 5.00 dB	Freq Offset 0 Hz
en c					STAT	MI.	

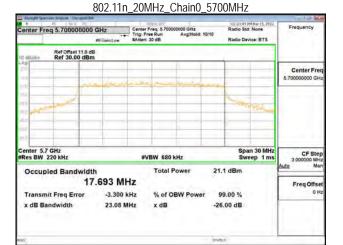


802.11n 20MHz Chain0 5500MHz

🚆 fiyogetax	chumy Kindlycow - Occupied By		1		parties.		
Center Fr	eq 5.500000000	GHz #FilialmLtrw	Center Freq. 5.50 Trig: Free Run #Atten: 30 dB	Radio Std Radio Dev		Frequency	
10 dBillio	Ref Offset 11.8 dl Ref 30.00 dBn				-		
200 		and the second	-	. Janes de	_		Center Freq 5.500000000 GHz
10.0 (01) (10)	-				~	The second	
nie mie			_		_		
Center 5.8 #Res BW			#VBW 68) kHz		n 30 MHz eep 1 ms	CF Step 3.000000 MHz
Occup	led Bandwidt	h 749 MH	Total Z		Auto Man Freg Offset		
	hit Freq Error andwidth	39.318 kH 21.66 MH	iz % of	OBW Power	99.00 % -26.00 dB		0 Hz
ekg					status		

802.11n_20MHz_Chain0_5580MHz





802.11n 20MHz Chain0 5720MHz

Everetar	NE INCOME	*		INSA DVT	_			
Center Fre	enter Freq 5.720000000 GHz			Center Freq: 5.72000000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB			Radio Device: BTS	Frequency
10 dBillio	Ref Offset 11.8 c Ref 30.00 dB							
200 000		-						Center Fred 8.720000000 GHz
100	-						man and	-
40.0			_					
mA								
Center 5.7 #Res BW			#VI	BW 680 H	Hz		Span 30 MHz Sweep 1 ms	CF Step 3.000000 MHz
Occup	led Bandwid	th		Total P	ower	20	6 dBm	Auto Man
	1	7.754 MH	Ηz					Freq Offset
Transmit Freq Error 18		18.419 k	kHz % of OBW Po				9.00 %	0 Ha
x dB Ba	ndwidth	23.09 M	IHz	x dB		-26	6.00 dB	
wiki)						STAT		

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

t (886-2) 2299-3279

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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

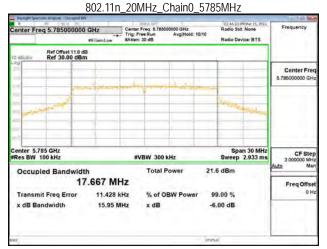
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488



Report No.: E2/2022/20117 Page: 35 of 271

802.11n_20MHz_Chain0_5745MHz

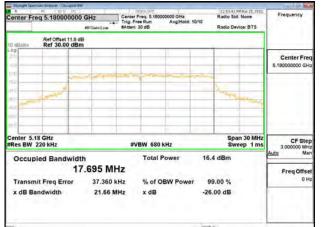


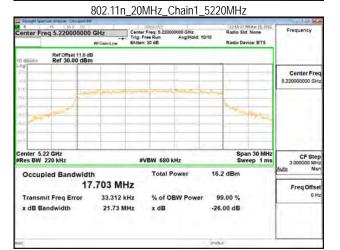


802.11n 20MHz Chain0 5825MHz

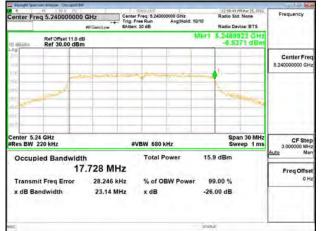
	g 5.82500000	and the second second	Center	Freq 5.8250	00000 GHz		Radio St	PR Mar 15, 2022	Frequency
Center Fre	g 5.825000000	#FGainLow	Trig: Fr	Trig: Free Run Avg/Hold: 10/10 #Atten: 30 dB				evice: BTS	
VOILEB 01	Ref Offset 11.8 d Ref 30.00 dBr								
200							-		Center Freq
1000	-	Carlor and	-	John	and and				
0.0	Hore				-	-	No.	These .	
			_	_				The second	
100									
Center 5.8 Res BW 1			#1	BW 300	kHz		Sp Sweep	an 30 MHz 2.933 ms	CF Step 3.000000 MH
Occupi	ed Bandwid	th		Total F	ower	22.	0 dBm		Auto Man
	1	7.651 MI	Ηz						Freq Offset
		723						00 %	
x dB Ba	ndwidth	14.72 M	IHz	x dB		-6	.00 dB		
						aTat)			,







802.11n 20MHz Chain1 5240MHz



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

t (886-2) 2299-3279

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

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

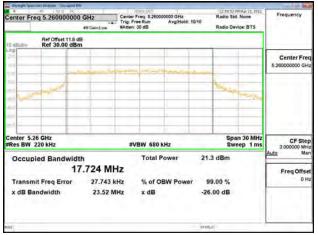
SGS Taiwan Ltd.

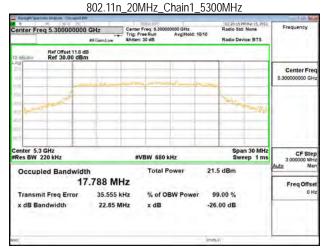
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488



Report No.: E2/2022/20117 Page: 36 of 271

802.11n_20MHz_Chain1_5260MHz

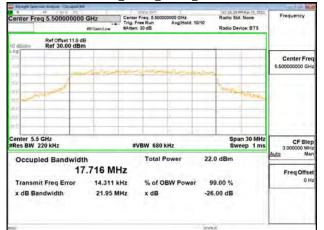


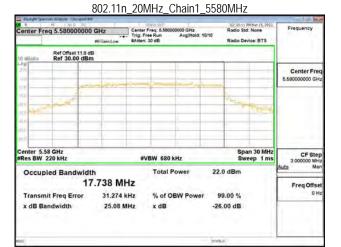


802.11n 20MHz Chain1 5320MHz

Exylight Space	Suary MANAYOW - Occupied Th	Y					I DI LO MA
Center Freq 5.320000000 GHz			Center Freq. 5.32000000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB			Plinar 15, 2022 d: Nome evice: BTS	Frequency
10 mBillion							
200		-	Jane				Center Freq 5.32000000 GHz
16.0 171 170 dec 1	and and		-		-	THE	
-0.0						-	-
Center 5.3	enter 5.32 GHz Span 30 MHz Res BW 220 kHz ≌VBW 680 kHz Sweep 1 ms						CF Step 3 000000 MHz
Occupied Bandwidth 17.773 MH			Total Pov	ver 2'	1.5 dBm		Auto Man Freg Offset
	Transmit Freq Error -4.258 F x dB Bandwidth 23.12 M		Hz % of OBW Power				OHz
ekg				819	(Turi)		

802.11n_20MHz_Chain1_5500MHz





802.11n 20MHz Chain1 5700MHz

Kayaght Saletsany Maliyon -				-			
Center Freq 5.700000000 GHz			Center Freq. 5.70000000 GHz Trig: Freq Run Avg/Hold: 10/10 #Atten: 30 dB			Radio Device: BTS	Frequency
to deligiv Ref Offs							
2m 00 00		de la	وسنر		-		Center Fred 5.700000000 GHz
100	1					-	
40.0 00							
m/		-			-		
Center 5.7 GHz #Res BW 220 kHz			#VBW 680 kHz			Span 30 MHz Sweep 1 ms	CF Step 3.000000 MHz
Occupied Bandwidth			1.4.4.0.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.			.6 dBm	Auto Mar
	17.755	MHz					Freq Offset
Transmit Freq Error 6.845 kH			Hz % of OBW Power 99			9.00 %	0 Ha
x dB Bandwidth	22.34	MHz	x dB		-26	5.00 dB	
Dial of the second s					STAT	uil.	

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

t (886-2) 2299-3279

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

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.	No.
台灣檢驗科技股份有限公司	

f (886-2) 2298-0488

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



Report No.: E2/2022/20117 Page: 37 of 271

802.11n 20MHz Chain1 5720MHz

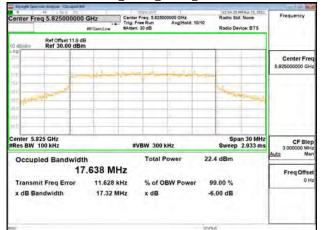
🚆 filysgie faw	tury Malicon - Occupied By	-			-		-	
Center Freq 5.720000000 GHz			Center F Trig: Fre	Center Freq: 5.72000000 GHz Trig: Freq: 8.12000000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB		Radio Std: None Radio Device: BTS	Frequency	
10 dBillio	Ref Offset 11.8 dl Ref 30.00 dBn							
200 200 000			-	dag	heren	un.		Center Freq 5.720000000 GHz
100	- Andrew						- ling	
Center 5.1 #Res BW			#VI	BW 680 H	cHz.		Span 30 MHz Sweep 1 ms	CF Step 3.000000 MHz
Occup	led Bandwidt	h .725 MH	z	Total P	ower	21.	5 dBm	Auto Man Freg Offset
	hit Freq Error andwidth	24.163 k 21.87 M	Hz	% of OI x dB	BW Powe		9.00 % .00 dB	0 Hz
wikg						STAT		-

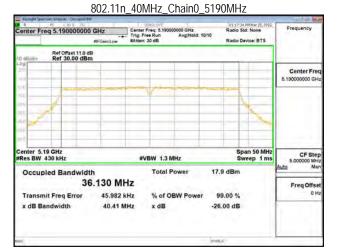


802.11n 20MHz Chain1 5785MHz

Riveger Same	Sum Analyzer - Occupied BM		-		-		-		
conter ried strosopopop ous			Center Freq. 5.785000000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB		10/10	Radio Std: None Radio Device: BTS		Frequency	
10 dBillio	Ref Offset 11.8 dE Ref 30.00 dBm								
200									Center Fred 5.785000000 GHz
16.0						19 - 10-11			
10	Contraction of the second seco	-	_						
mð									
Center 5.7 #Res BW			#VE	BW 300 P	Hz			an 30 MHz 2.933 ms	CF Step 3.000000 MHz
Occupied Bandwidth 17.643 MH			Total Power 21.8 dBm				Auto Mar Freg Offse		
	hit Freq Error	1.774 ki 16.92 Mi	Hz	% of O	BW Powe		9.00 %		0 Ha
	in a manuf	10.02 1							
Dett.						STAT.	10		

802.11n_20MHz_Chain1_5825MHz





802.11n 40MHz Chain0 5230MHz



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

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

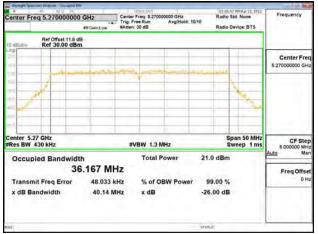
SGS Taiwan Ltd.

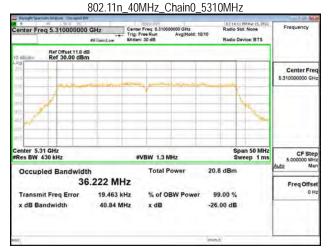
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 www.sgs.com.tw



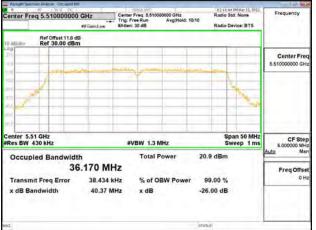
Report No.: E2/2022/20117 Page: 38 of 271

802.11n_40MHz_Chain0_5270MHz

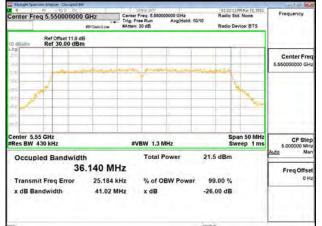


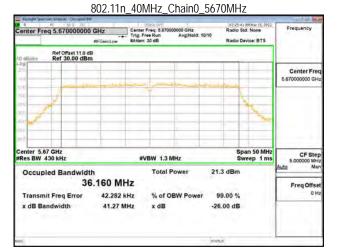


802.11n 40MHz Chain0 5510MHz

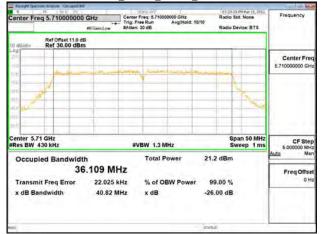








802.11n 40MHz Chain0 5710MHz



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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

人端从队员并现人力的人力
台灣檢驗科技股份有限公司

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

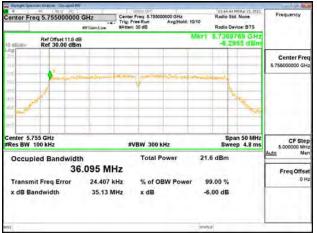
www.sgs.com.tw

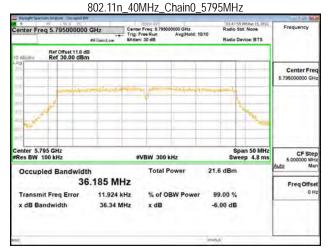
Member of SGS Group



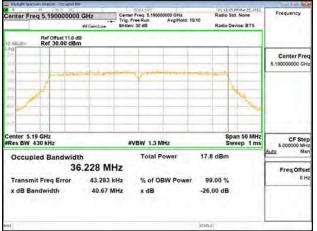
Report No.: E2/2022/20117 Page: 39 of 271

802.11n_40MHz_Chain0_5755MHz

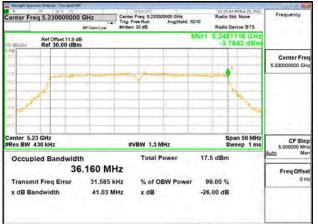


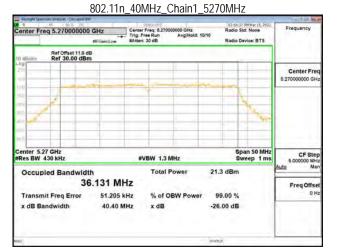


802.11n 40MHz Chain1 5190MHz









802.11n 40MHz Chain1 5310MHz



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。

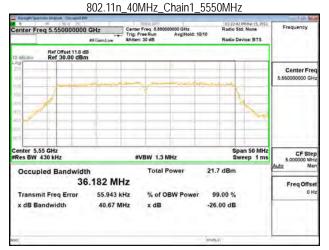
解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



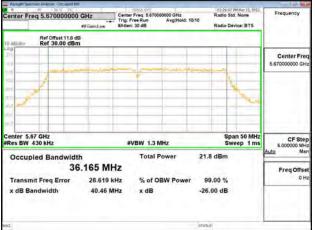
Report No.: E2/2022/20117 Page: 40 of 271

802.11n 40MHz Chain1 5510MHz

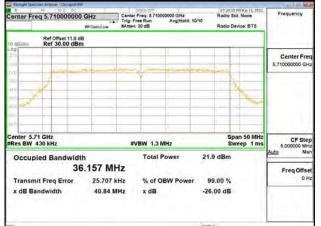
🚆 fiyoget face	chainey Ministrate - Occupied Bill				provide and a second second	
Conter Fred 3.5 10000000 Onz			Center Freq: 5.510 Trig: Free Run #Atten: 30 dB	AvgiHold: 10/10	Radio Device: BTS	Frequency
10 dBillio	Ref Offset 11.8 dl Ref 30.00 dBn					
200				-		Center Freq 5.510000000 GHz
1620 1710 1710	1		Ť		X	
40.0						
Center 5.4 #Res BW			#VBW 1.3	MHz	Span 50 MHz Sweep 1 ms	
Occupied Bandwidth 36.132 MH			Total Power 21.2 dBm			Auto Man Freg Offset
	hit Freq Error andwidth	62.764 ki 40.69 Mi	iz % of C	BW Power	99.00 % 26.00 dB	OHz
wika				1	NTL:1	

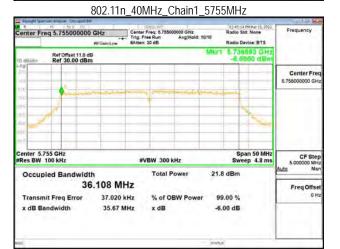


802.11n 40MHz Chain1 5670MHz

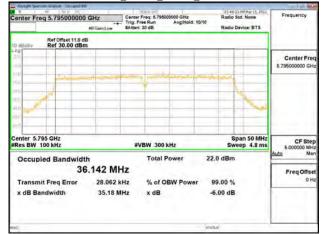








802.11n 40MHz Chain1 5795MHz



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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

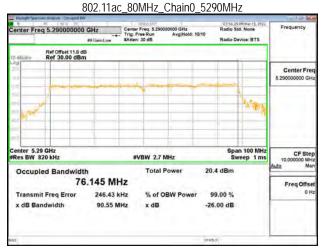
SGS Taiwan Ltd.	1
台灣檢驗科技股份有限公司	



Report No.: E2/2022/20117 Page: 41 of 271

802.11ac_80MHz_Chain0_5210MHz

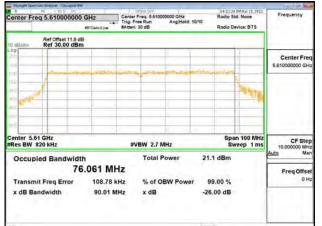


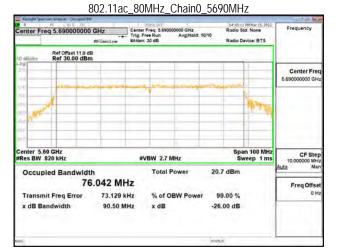


802.11ac 80MHz Chain0 5530MHz

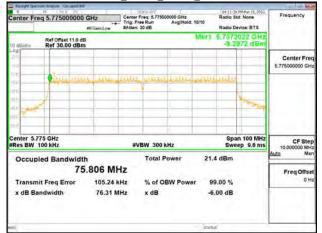
Anyongke Sawetunany Annalyzow - Occupied Bio	V	1		1000	and a state of the	
Center Freq 5.530000000 GHz		Center Freq. 6.53000000 GHz Trig: Freq. 8. A300 Avg/Hold: 10/10 #Atten: 30 dB		Radio 1	Std: None Device: BTS	Frequency
Ref Offset 11.8 d Ref 30.00 dBn					-	
.eg 3(0) 0(0)						Center Fred 5.530000000 GHz
					NY WY	
no 110 111					1	
Center 5.53 GHz				Sp	an 100 MHz	
Res BW 820 kHz		#VBW 2.7	MHz		weep 1 ms	CF Step 10.000000 MHz
Occupied Bandwidt	h	Total Power		21.0 dBm		Auto Man
76	5.031 MHz					Freq Offset
Transmit Freq Error	258.50 kHz	% of C	DBW Power	99.00 %		0 Ha
x dB Bandwidth	90.87 MHz	x dB		-26.00 dB		
ing .				STATUS		-







802.11ac 80MHz Chain0 5775MHz



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

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

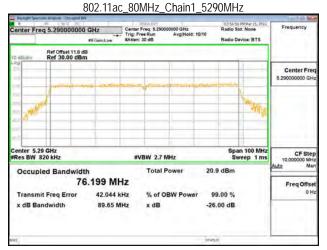
SGS Taiwan Ltd.	1
台灣檢驗科技股份有限公司	



Report No.: E2/2022/20117 Page: 42 of 271

802.11ac_80MHz_Chain1_5210MHz

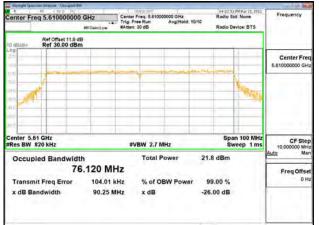
🚔 Kiyaget Sawta	any Ministery - Occupied The		_						-	
worker ring siz reasoned with			Center Freq: 5.210000000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB			0/10	Radio Std: None Radio Device: BTS		110	Frequency
10 dBillio	Ref Offset 11.8 dB Ref 30.00 dBm					Mkr1	5.247925 GHz -3.4462 dBm			
200 200										Center Freq 5.210000000 GHz
10.00								1		
nin	-			_				h	5	
mh										
Center 5.2 #Res BW 8			#VB	W 2.7 N	IHz				0 MHz 1 ms	CF Step 10.000000 MHz
Occupied Bandwidth						dBm			<u>Auto</u> Man	
	/5 it Freq Error ndwidth	134.02 kl 81.57 M	Hz	% of OI x dB	BW Power		.00 % 00 dB			Freq Offset 0 Hz
and .						ITATU				

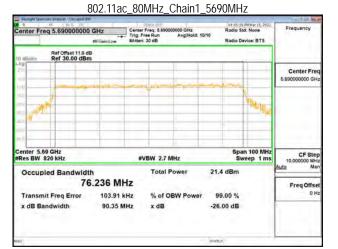


802.11ac 80MHz Chain1 5530MHz

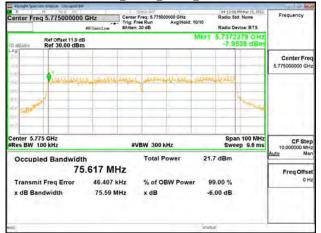
Kayaget favorany Kintrow - Occupied Bill				- Contraction of the	10 10 10
Center Freq 5.530000000	Center Freq: 6.63000 Trig: Free Run #Atten: 30 dB	AvgiHold: 10/10	Radio Std: None Radio Device: BTS	Frequency	
10 dBlatter Ref 30.00 dBn					
200 00 00					Center Freq 5.530000000 GHz
102 110 110				1	2.
and and mh					
Center 5.53 GHz #Res BW 820 kHz		#VBW 2.7 N	IHz	Span 100 M Sweep 1 r	ns 10.000000 MHz
Occupied Bandwidt	h	Total P	ower 20).9 dBm	Auto Man
76	6.097 MH	z			Freq Offset
Transmit Freq Error	153.74 kH	z % of O	BW Power	99.00 %	0 Hz
x dB Bandwidth	88.46 MH	lz xdB	-2	6.00 dB	
end .			STA	TUS	







802.11ac 80MHz Chain1 5775MHz



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

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技股份有限。	いヨ
12月惊厥打仪成仍月183	<u> </u>

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

www.sgs.com.tw



8.4.2 **ISED Occupied Bandwidth**

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.550	12.190
5220	16.528	12.180
5240	16.561	12.190
5260	16.528	12.180
5300	16.537	12.180
5320	16.503	12.180
5500	16.510	12.180
5580	16.514	12.180
5700	16.535	12.180
5720(U-NII 2C)	13.248	11.220
5720(U-NII 3)	3.248	5.120

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)		
5745	16.520	16.310		
5785	16.541	16.360		
5825	16.535	16.360		

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 <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Sees Taiwan Litdu - ND 134 Wu Kung Road New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/Két, # ##REFET# 134 #



802.11a_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.540	12.190
5220	16.511	12.180
5240	16.561	12.190
5260	16.510	12.180
5300	16.511	12.180
5320	16.543	12.190
5500	16.534	12.180
5580	16.504	12.180
5700	16.527	12.180
5720(U-NII 2C)	13.271	11.230
5720(U-NII 3)	3.271	5.150

802.11a_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	16.594	16.250
5785	16.554	16.140
5825	16.554	16.300

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



802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.683	12.480
5220	17.704	12.480
5240	17.706	12.480
5260	17.685	12.480
5300	17.697	12.480
5320	17.700	12.480
5500	17.698	12.480
5580	17.708	12.480
5700	17.695	12.480
5720(U-NII 2C)	13.846	11.410
5720(U-NII 3)	3.846	5.850

802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	17.718	17.450
5785	17.695	17.490
5825	17.728	17.410

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei I	ndustrial Park, Wuku District, New Taipe	ei 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



802.11n_HT20_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.685	12.480
5220	17.688	12.480
5240	17.701	12.480
5260	17.691	12.480
5300	17.703	12.480
5320	17.686	12.480
5500	17.733	12.490
5580	17.769	12.500
5700	17.734	12.490
5720(U-NII 2C)	13.868	11.420
5720(U-NII 3)	3.868	5.870

802.11n_HT20_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	17.741	17.430
5785	17.725	17.120
5825	17.752	17.390



802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.120	15.580
5230	36.136	15.580
5270	36.217	15.590
5310	36.174	15.580
5510	36.198	15.590
5550	36.137	15.580
5670	36.229	15.590
5710(U-NII 2C)	33.085	15.200
5710(U-NII 3)	3.085	4.890

802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	36.181	36.100
5795	36.123	36.070

802.11n_HT40_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.221	15.590
5230	36.117	15.580
5270	36.120	15.580
5310	36.155	15.580
5510	36.147	15.580
5550	36.138	15.580
5670	36.164	15.580
5710(U-NII 2C)	33.091	15.200
5710(U-NII 3)	3.091	4.900

802.11n_HT40_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	36.163	36.270
5795	36.094	36.040

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei I	ndustrial Park, Wuku District, New Taipe	ei 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



802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.616	18.790
5290	76.112	18.810
5530	76.016	18.810
5610	76.076	18.810
5690(U-NII 2C)	73.054	18.640
5690(U-NII 3)	3.054	4.850

802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5775	76.296	76.690

802.11ac_VHT80_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.477	18.780
5290	76.196	18.820
5530	76.106	18.810
5610	75.979	18.810
5690(U-NII 2C)	73.095	18.640
5690(U-NII 3)	3.095	4.910

802.11ac_VHT80_Ch1

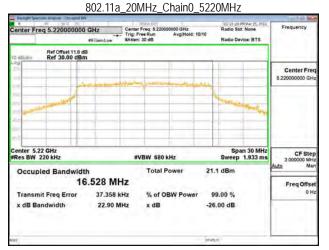
Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)	
5775	75.970	76.500	



Report No.: E2/2022/20117 Page: 49 of 271

802.11a_20MHz_Chain0_5180MHz

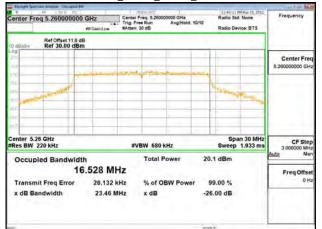


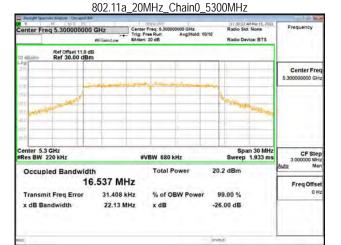


802.11a 20MHz Chain0 5240MHz

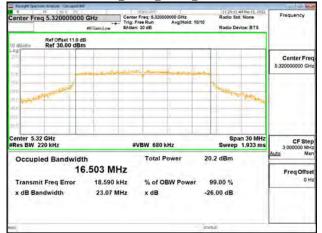
🚔 Rivight Said	namy Rolanzaw - Occupied Bil						-		
Center Freq 5.240000000 GHz			Center Freq	enter Freq. 5.240000000 GHz rig: Free Run Avg/Hold: 10/10 Atten: 30 dB		0/10	Radio Std: None Radio Device: BTS		Frequency
10 dBillio	Ref Offset 11.8 di Ref 30.00 dBm								
200									Center Freq 5.240000000 GHz
1000	-						+		
-0.0 0.0		_							
Center 5.2	DA CHY						0.	an 30 MHz	
#Res BW			#VBW	680 kHz	÷			0 1.933 ms	CF Step 3.000000 MHz
Occup	led Bandwidt	h	Total Power 20.7 dBm				Auto Man		
	16	.561 MH	z						Freq Offset
Transm	Transmit Freq Error 42.217		Hz %	of OBW	Power	91	9.00 %		0 Hz
x dB Ba	andwidth	22.43 M	Hz x	dB		-26	.00 dB		
ping						STATU			

802.11a_20MHz_Chain0_5260MHz





802.11a 20MHz Chain0 5320MHz



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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

A 344 1A #A	ALL 10 13 -	100 A 20
台湾微敏	科技股份有	限公司

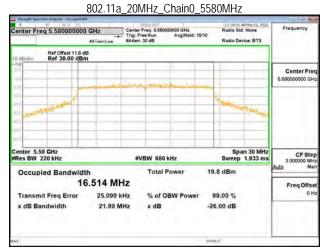
SGS Taiwan Ltd.



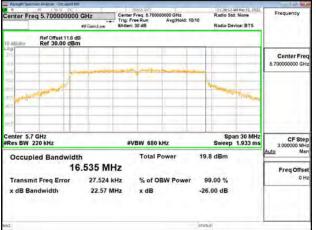
Report No.: E2/2022/20117 Page: 50 of 271

802.11a_20MHz_Chain0_5500MHz

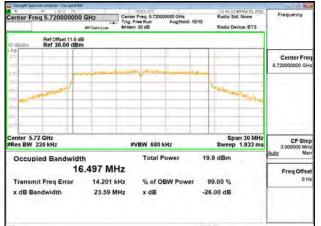


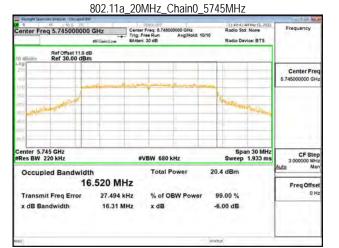


802.11a 20MHz Chain0 5700MHz

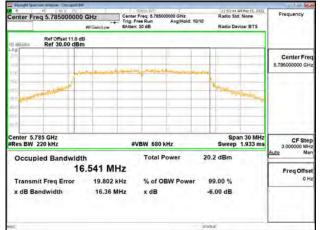








802.11a 20MHz Chain0 5785MHz



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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技股份有限公司	
DIGINAL INCAL A TIMA S	

SGS Taiwan Ltd.

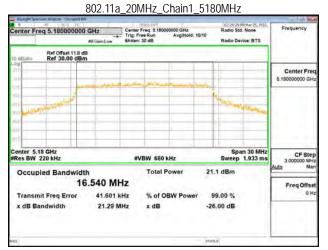
t (886-2) 2299-3279 f (886-2) 2298-0488



Report No.: E2/2022/20117 Page: 51 of 271

802.11a_20MHz_Chain0_5825MHz

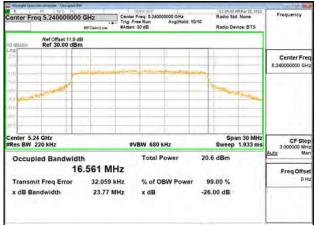


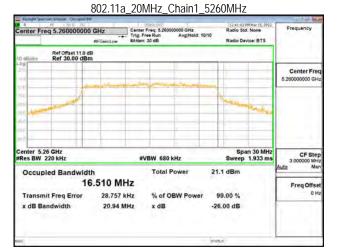


802.11a 20MHz Chain1 5220MHz

Kiyaget Spectrum 1	Anarow - Occupied Bri	f		-		- (
Center Freq 5.220000000 GHz			Center Freq: 5.22000000 GHz Trig: Free Run Avg/Hold: 10/10 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency
10 dBillio	Ref Offset 11.8 dl Ref 30.00 dBm							
200 000			la m					Center Freq 5.220000000 GHz
10.0	maint					in the second	these .	
10 00 00 00 00 00 00 00 00 00 00 00 00 0								
Center 5.22 G			#VBW 68	0.6447			an 30 MHz	CF Step
	Bandwidt					Sweep 1.933 ms		3,000000 MHz Auto Mar
Occupied		.511 MH	10.00			(dom		Freq Offset
Transmit F x dB Band		24.207 k 23.47 M		OBW Powe		9.00 % .00 dB		0 Hz
eng .					STATU	4		, i







802.11a 20MHz Chain1 5300MHz



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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.	
台灣檢驗科技股份有限公司	

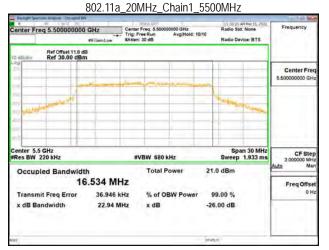
t (886-2) 2299-3279 f (886-2) 2298-0488



Report No.: E2/2022/20117 Page: 52 of 271

802.11a_20MHz_Chain1_5320MHz



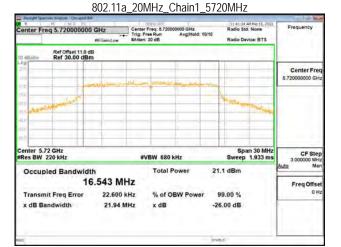


802.11a 20MHz Chain1 5580MHz

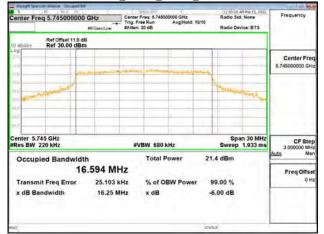
🚔 Kayaget faist	chainy MANAYOW - Occupied By						10 101 100	
Center Freq 5.580000000 GHz			Center Freq: 5.580000000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB			di Nome Ivice: BTS	Frequency	
10 dBillio	Ref Offset 11.8 dB dBilliov Ref 30.00 dBm							
200 00 0.00			Jack				Center Freq 5.580000000 GHz	
10x1 -011 -012	and wanted in state				here	Nov-me		
ate ant mit								
Center 5.5 #Res BW			VBW 680 kHz			an 30 MHz 1.933 ms	CF Step 3.000000 MHz	
Occupied Bandwidth 16.504 MH			Total Power 21.0 dBm				Auto Man Freg Offset	
	hit Freq Error andwidth	22.506 kHz 23.43 MHz	% of OBV x dB		99.00 % 6.00 dB		OHz	
eikd				BTR	mus			

802.11a_20MHz_Chain1_5700MHz





802.11a 20MHz Chain1 5745MHz



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

t (886-2) 2299-3279

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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.	
台灣檢驗科技股份有限公司	

f (886-2) 2298-0488

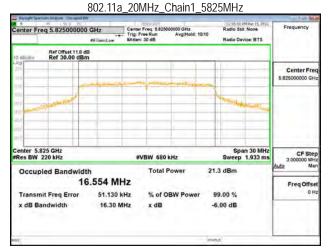
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 www.sgs.com.tw



Report No.: E2/2022/20117 Page: 53 of 271

802.11a_20MHz_Chain1_5785MHz

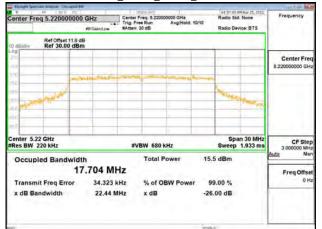


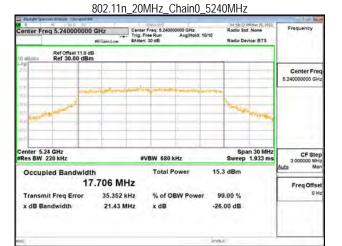


802.11n 20MHz Chain0 5180MHz

🙀 Kiyagerigan	any MANYON - Otcound I	NV			- Andrew Constraints	
Center Freq 5.180000000 GHz			Center Freq: 5.18000 Trig: Free Run #Atten: 30 dB	AvgiHold: 10/10	Radio Device: BTS	Frequency
VILLER OF	Ref Offset 11.8 c Ref 30.00 dB					
200						Center Freq 5.180000000 GHz
0/0) 1000 1000	1					
and the we	and the second s				- And and	
mh						
Center 5.11 #Res BW 2			#VBW 6801	KHZ	Span 30 MHz Sweep 1.933 ms	CF Step 3.000000 MHz
Occupied Bandwidth 17.683 MH			Total P	ower 1	5.7 dBm	Auto Man Freg Offset
	it Freq Error ndwidth	38.871 kH 23.30 MH	iz % of O		99.00 % 6.00 dB	0 Hz
					nuil -	
6864					itua -	

802.11n_20MHz_Chain0_5220MHz





802.11n 20MHz Chain0 5260MHz

Rayweight Sawchumy Kinkinger - Occupied Bill		-				- Providence -		
Center Freq 5.260000000 GHz		Center Freq Trig: Free R	Center Freq. 5.26000000 GHz Trig: Freq Run Avgihold: 10/10 #Atten: 30 dB			Radio Device: BTS		Frequency
Ref Offset 11.8 dt Ref 30.00 dBm								
200 200 0.0			-			-		Center Freq 5.26000000 GHz
						-		
204 200 200								
Center 5.26 GHz #Res BW 220 kHz		#VBW	680 k	Hz		Spa Sweep	in 30 MHz 1.933 ms	CF Step 3.000000 MHz
Occupied Bandwidt			otal Pe	ower	20.	5 dBm		<u>Auto</u> Man
17	.685 MH							Freq Offset
Transmit Freq Error x dB Bandwidth	17.796 k 21.76 M		dB	W Powe		9.00 % .00 dB		0 Hz
pag .					STAT	a12	_	-

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

t (886-2) 2299-3279

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

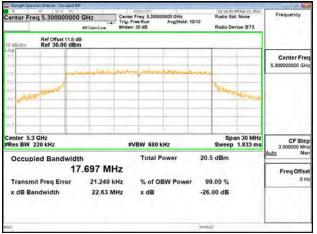
解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

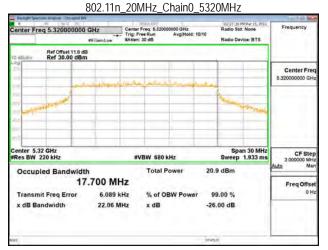
SGS Taiwan Ltd.



Report No.: E2/2022/20117 Page: 54 of 271

802.11n_20MHz_Chain0_5300MHz

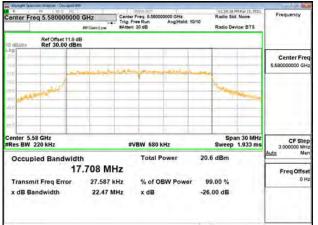


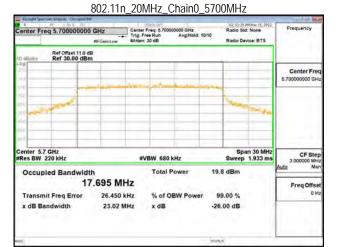


802.11n 20MHz Chain0 5500MHz

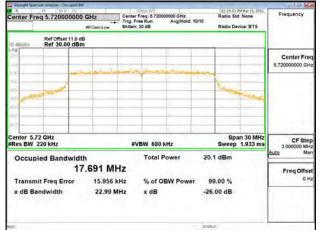
Elyight Sauch	any Manager - Occupied	a miri					- Contract	Laboration and the		
Conter Freq 5.50000000 Onz		Center F Trig: Fre	Center Freq 5.50000000 GHz Trig: Freq Run AvgiHold: 10/10 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency		
10 mBillio	Ref Offset 11.6 Ref 30.00 dl									
0.0									Center Freq 5.50000000 GHz	
1000	and a		-							
11d								(shows a		
mit			-							
Center 5.5 #Res BW 2			#VI	BW 6801	kHz			an 30 MHz 1.933 ms	CF Step 3.000000 MHz	
Occupi	ed Bandwi	dth		Total Power		20.	20.5 dBm		Auto Man	
		17.698 MI	Ηz						Freq Offset	
Transmi	it Freq Error	17.213	kHz	% of O	BW Powe	r 9	9.00 %		0 Hz	
x dB Ba	ndwidth	22.80 M	IHz	x dB		-26	.00 dB			
eng						STATL	d			







802.11n 20MHz Chain0 5720MHz



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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科	技股份有限公司

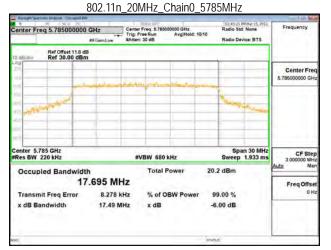
SGS Taiwan Ltd.



Report No.: E2/2022/20117 Page: 55 of 271

802.11n_20MHz_Chain0_5745MHz



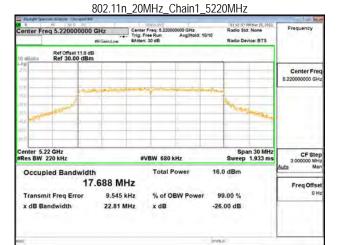


802.11n 20MHz Chain0 5825MHz

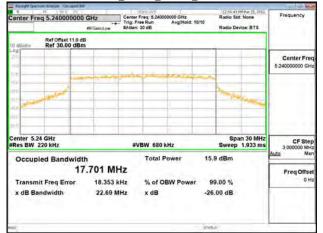
🚔 Kayaght Space	numy KAMAYOW - Occupied	a Bill					I DI LO MA
Center Freq 5.825000000 GHz			enter Freq. 5.8250 rig: Free Run Atten: 30 dB	Radio Sto		Frequency	
VOILED DI	Ref Offset 112 Ref 30.00 di						
2m 00 00							Center Freq 5.825000000 GHz
10.0 17.0	-				1	-	
			_				
Center 5.8 #Res BW			#VBW 680	kHz		n 30 MHz 1.933 ms	CF Step
Occup	ied Bandwi	dth 17.728 MHz	Total I	ower	20.4 dBm		<u>Auto Man</u>
	nit Freq Error	6.922 kHz	% of O	BW Power	99.00 %	- 10	Freq Offset 0 Hz
x dB Ba	andwidth	17.41 MHz	x dB		-6.00 dB		1
Diff.				-	STATUS		







802.11n 20MHz Chain1 5240MHz



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。

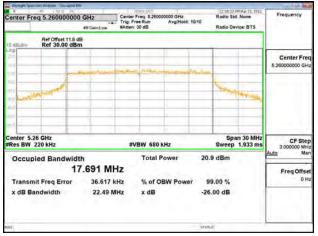
解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

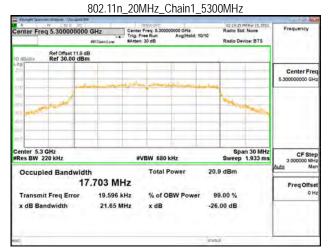
SGS Taiwan Ltd.	
台灣檢驗科技股份有限公司	



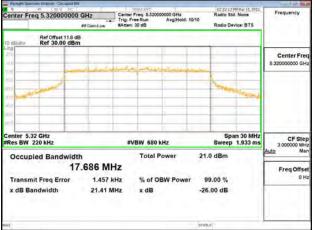
Report No.: E2/2022/20117 Page: 56 of 271

802.11n_20MHz_Chain1_5260MHz

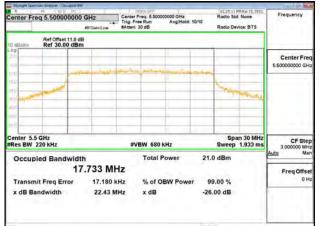


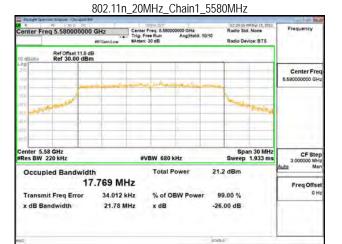


802.11n 20MHz Chain1 5320MHz

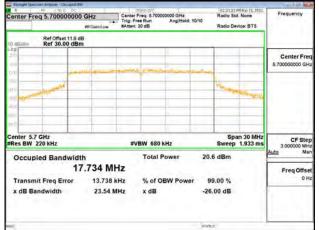


802.11n_20MHz_Chain1_5500MHz





802.11n 20MHz Chain1 5700MHz



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。

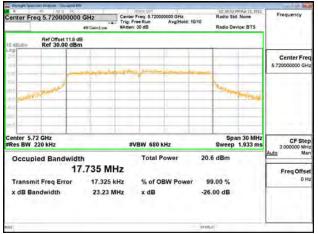
解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

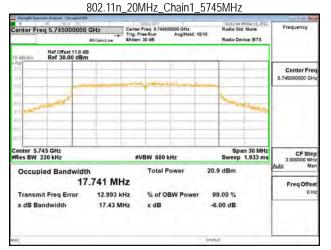
SGS Taiwa	in Ltd.
台灣檢驗科技股份有	限公司



Report No.: E2/2022/20117 Page: 57 of 271

802.11n_20MHz_Chain1_5720MHz

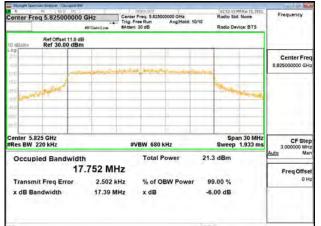


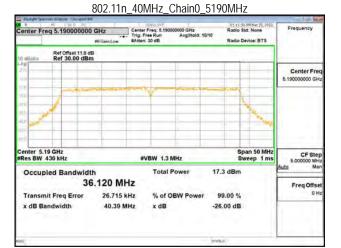


802.11n 20MHz Chain1 5785MHz









802.11n 40MHz Chain0 5230MHz



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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

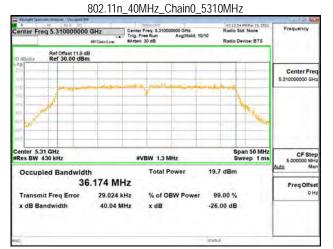
SGS Taiwan Lto	ł. –
台灣檢驗科技股份有限公司	IJ



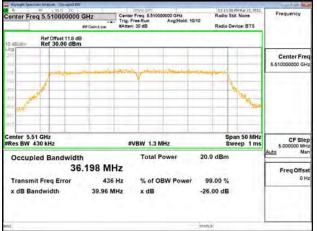
Report No.: E2/2022/20117 Page: 58 of 271

802.11n_40MHz_Chain0_5270MHz

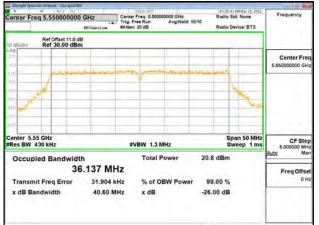


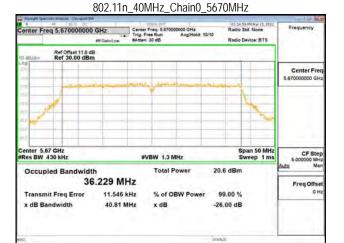


802.11n 40MHz Chain0 5510MHz

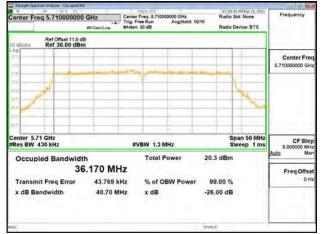








802.11n 40MHz Chain0 5710MHz



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。

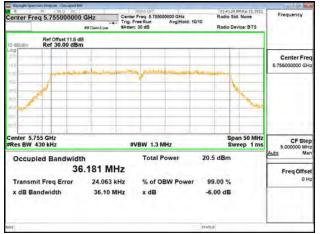
解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

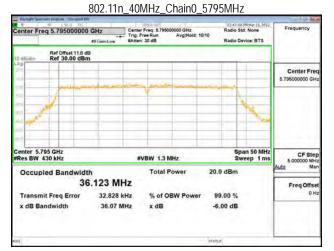
SGS Taiwan Ltd.	
台灣檢驗科技股份有限公司	



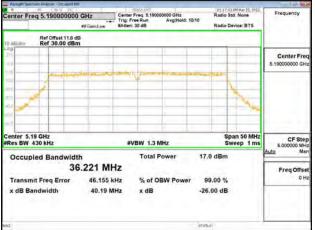
Report No.: E2/2022/20117 Page: 59 of 271

802.11n_40MHz_Chain0_5755MHz

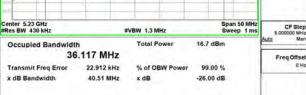


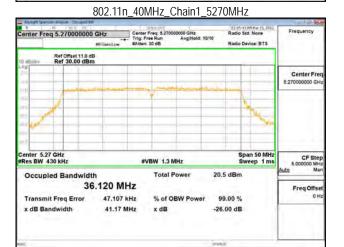


802.11n 40MHz Chain1 5190MHz

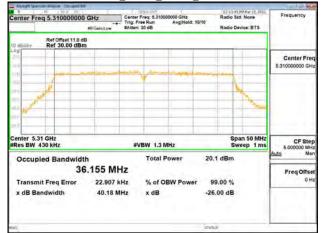








802.11n 40MHz Chain1 5310MHz



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。

台灣檢驗科技股

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

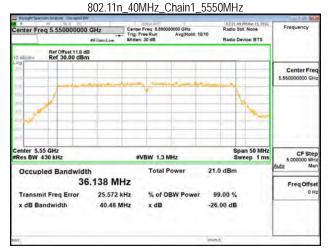
Taiwan Ltd.	No.134,Wu Kung Road, New Taipe	i Industrial Park, Wuku District, New Taip	ei City, Taiwan/新北市五股區新北產業園區五工路 134 號
E份有限公司	t (886-2) 2299-3279	f (886-2) 2298-0488	www.sgs.com.tw
			Member of SGS Group



Report No.: E2/2022/20117 Page: 60 of 271

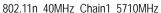
802.11n_40MHz_Chain1_5510MHz

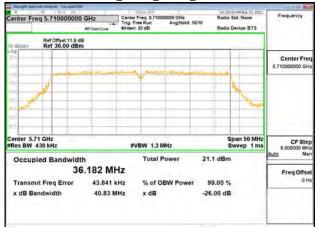


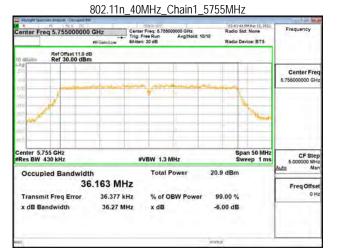


802.11n 40MHz Chain1 5670MHz

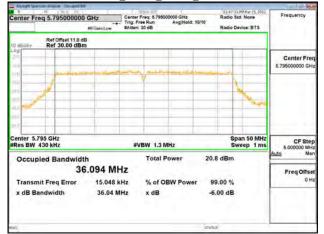








802.11n 40MHz Chain1 5795MHz



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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

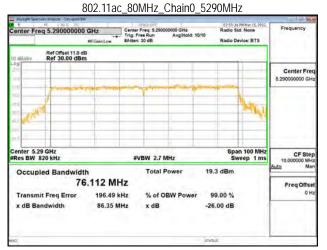
台灣檢驗科技股份有限公司	
Prind (Weiner) (Prine Int.)) (Are weild)	



Report No.: E2/2022/20117 Page: 61 of 271

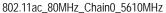
802.11ac_80MHz_Chain0_5210MHz

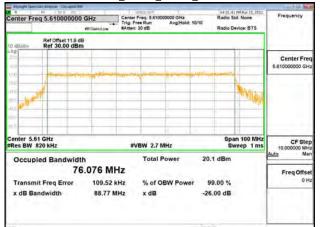


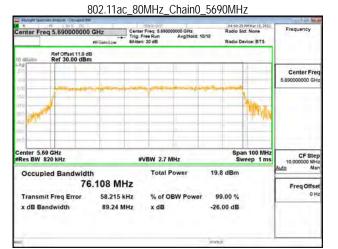


802.11ac 80MHz Chain0 5530MHz

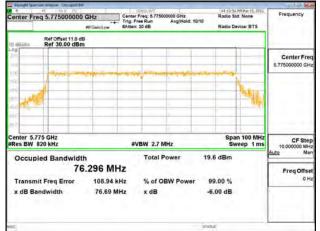
Kayaght Sawtuary Kawtow - Ottogood Bil						
Center Freq 5.530000000 GHz		Center Freq: 5.5300 Trig: Free Run #Atten: 30 dB	00000 GHz Avg/Hold: 10/10	Radio Std: None Radio Device: BTS	Frequency	
Ref Offset 11.8 dE	3					
200					Center Freq 5.530000000 GHz	
				MT PLAN		
Center 5,53 GHz #Res BW 820 kHz		#VBW 2.7 I	ЛНz	Span 100 MHz Sweep 1 ms	CF Step	
Occupied Bandwidt	b			9.8 dBm	Auto Man	
	.016 MH	z			Freq Offset	
Transmit Freq Error	180.47 kH			99.00 %	0 Hz	
x dB Bandwidth	90.52 MH	z xdB	-3	26.00 dB		
ping			art.	etus .		







802.11ac 80MHz Chain0 5775MHz



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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

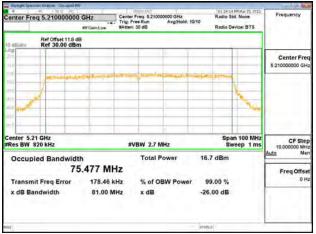
人名法人人	41.10	n.ハ+n	* ^ 7
台灣檢驗	种牧师	医伤角目	又公司

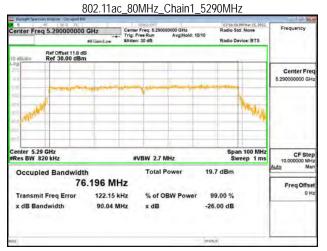
SGS Taiwan Ltd.



Report No.: E2/2022/20117 Page: 62 of 271

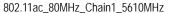
802.11ac_80MHz_Chain1_5210MHz

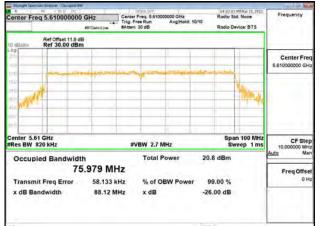


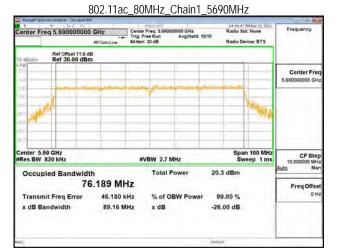


802.11ac 80MHz Chain1 5530MHz

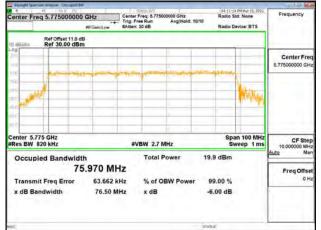
Center Freq 5.530000000 GHz		Center Freq. 5.3000000 GHz Trig: Free Run AvgiHold: 10/10 #Atten: 30 dB		Radio Device: BTS	Frequency
TO dBillion Ref Offset 11.8 d Ref 30.00 dBr					
200 00					Center Freq 5.530000000 GHz
na ne ne ne				MAN AN	
Center 5.53 GHz #Res BW 820 kHz		#VBW 2.7 M	Hz	Span 100 MHz Sweep 1 ms	
Occupied Bandwidt	th	Total Power 19		9.9 dBm	Auto Man
- 76	6.106 MHz	2			Freq Offset
Transmit Freq Error x dB Bandwidth	88.460 kH 89.37 MH			99.00 % 6.00 dB	0 Hz
DA1			STA	Tud	-







802.11ac 80MHz Chain1 5775MHz



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。

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

台灣檢驗科技股份有限公司	

SGS Taiwan Ltd.



MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 9

9.1 Standard Applicable

9.1.1 **Duty Cycle**

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

					e-CRF Title 47 §15.407				
Band	(EUT CATEGORY Power EIRP		TPC	Antenna Directional Gain Requirements				
		Fixed point-to- point	1 Watt(30dBm)	Not required	Not required	23dBi			
U-NII-1		Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi			
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi			
	۷	Other	250mW(23.98dBm)	Not required	Not required	6dBi			
U-NII-2A	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP	6dBi			
U-NII-2C	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	1W (30dBm)	6dBi			
	٧	Other	1 Watt(30dBm)	Not required	Not required	6dBi			
U-NII-3		Fixed point-to-point 1 Watt(30dBm)		Not required	Not required	Not required			
1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.									

9.1.2 **Output Power**

2. For the 10 log B, B is the 26 dB emission bandwidth.

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

t (886-2) 2299-3279

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

SGS Taiwan Ltd.

Report No.: E2/2022/20117 Page: 64 of 271

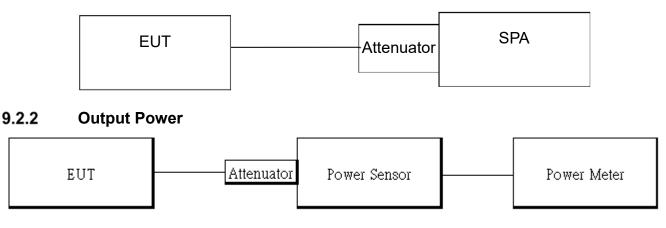


FREQUENCY	EUT CATEGORY		RSS-247 §6.2.1~6.2.4				
BAND (MHz)			EIRP	Conducted Output Power	TPC		
5150~5250		OEM devices installed in vehicles	30 mW or 1.76 + 10 log10B	N/A	At least 3dB below 30mW EIRP		
	V	Other device	200 mW or 10 + 10 log10B dBm	N/A	N/A		
		OEM devices installed in vehicles	30 mW or 1.76 + 10 log10B	N/A	At least 3dB below 30mW EIRP		
5250~5350	V	Other device	1.0 W or 17 + 10 log10B dBm	250 mW or 11 +10 log10B	EIRP >500mW, at least 6dB below 1W EIRP		
		Outdoor Fixed with EIRP>200mW	-13 dBW/MHz for 0°≤ θ< 8° -13 −0.716 (θ-8) dBW/MHz for 8° ≤ θ< 40° -35.9 −1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° -42 dBW/MHz for θ > 45°	N/A	EIRP >500mW, at least 6dB below 1W EIRP		
5470-5600 and 5650-5725	V	All	1.0 W or 17 + 10 log10B dBm	250 mW or 11 +10 log10B	EIRP >500mW, at least 6dB below 1W EIRP		
5725~5850	V	All	N/A	1 W	N/A		

1 For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. 2. For the 10 log B, B is the 99% emission bandwidth.

9.2 **Test Setup**

9.2.1 **Duty Cycle**



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

解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份視襲。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



9.3 **Measurement Procedure**

9.3.1 **Duty Cycle Measurements**

- 1. Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz.
- 4. Detector = Peak

9.3.2 **Output Power Measurements**

- 1. Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules . 2.
- Remove the antenna from the EUT and then connect a low loss RF cable from the an-3. tenna port to the power meter
- 4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
- Record the max. reading and add 10 log(1/duty cycle). 5.
- Repeat above procedures until all frequency (low, middle, and high channel) measured 6. were complete.
- 7. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

• DirectionalGain =
$$10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

 $g_{j,k} = /20$ 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not; \tilde{G}_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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



Duty Cycle Measurement Result 9.4

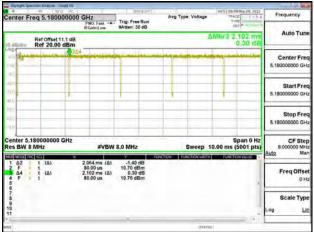
Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	98.19	0.08	0.48	0.01
802.11n_20	98.06	0.09	0.52	0.01
802.11ac_20	98.17	0.08	0.52	0.01
802.11n_40	96.34	0.16	1.05	2.00
802.11ac_40	96.36	0.16	1.05	2.00
802.11ac_80	92.80	0.32	2.16	3.00

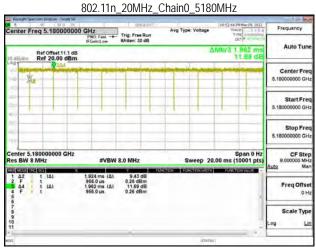
SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei I	ndustrial Park, Wuku District, New Taipe	ei City, Taiwan/新北市五股區新北產業園區五工路 134 號
台灣檢驗科技股份有限公司	t (886-2) 2299-3279	f (886-2) 2298-0488	www.sgs.com.tw
			Member of SGS Group



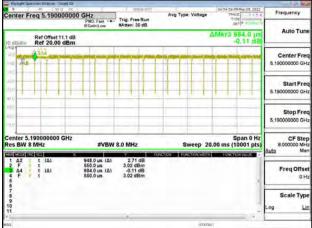
Report No.: E2/2022/20117 Page: 67 of 271

802.11a_20MHz_Chain0_5180MHz

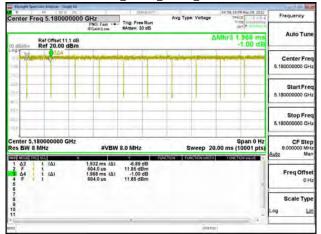




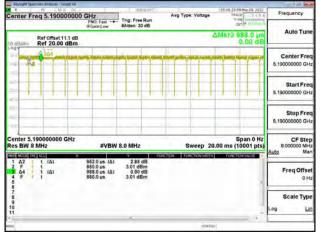
802.11n 40MHz Chain0 5190MHz



802.11ac_20MHz_Chain0_5180MHz



802.11ac 40MHz Chain0 5190MHz



802.11ac 80MHz Chain0 5210MHz



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

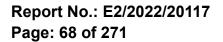
解決另有說明,此報告結果僅對測試乙樣品負責,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemni-fication and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

		• • • • •		
台灣檢驗	科技	と股份	有限	公司

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

www.sgs.com.tw





9.5 **Output Power Measurement Result**

9.5.1 FCC Output power

802.11a_Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	18	16.36	43.245	23.98	PASS
44	5220	6	18	16.41	43.745	23.98	PASS
48	5240	6	18	16.44	44.049	23.98	PASS
52	5260	6	18	16.40	43.645	23.98	PASS
60	5300	6	17.5	16.42	43.846	23.98	PASS
64	5320	6	17.5	16.37	43.344	23.98	PASS
100	5500	6	18	16.42	43.846	23.98	PASS
116	5580	6	17.5	16.39	43.544	23.98	PASS
140	5700	6	17.5	16.38	43.444	23.98	PASS
144	5720(U-NII 2C)	6	17.5	14.85	30.52	23.29	PASS
144	5720 (U-NII 3)	6	17.5	10.98	12.52	30	PASS
149	5745	6	17.5	16.40	43.645	30	PASS
157	5785	6	17.5	16.43	43.947	30	PASS
165	5825	6	18	16.48	44.456	30	PASS

802.11a_Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	18	16.35	43.145	23.98	PASS
44	5220	6	18	16.30	42.651	23.98	PASS
48	5240	6	18	16.37	43.344	23.98	PASS
52	5260	6	18	16.34	43.046	23.98	PASS
60	5300	6	18	16.40	43.645	23.98	PASS
64	5320	6	17.5	16.35	43.145	23.98	PASS
100	5500	6	17.5	16.29	42.553	23.98	PASS
116	5580	6	18	16.37	43.344	23.98	PASS
140	5700	6	17.5	16.27	42.358	23.98	PASS
144	5720(U-NII 2C)	6	17.5	14.89	30.82	23.08	PASS
144	5720 (U-NII 3)	6	17.5	10.70	11.74	30	PASS
149	5745	6	17.5	16.39	43.544	30	PASS
157	5785	6	17.5	16.38	43.444	30	PASS
165	5825	6	17.5	16.36	43.245	30	PASS

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 <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Document at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnifi-cation 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 to approve the property day the Company on untertoparate distribution of participations of the Company subject to the first 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.



802.11n_HT20_Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	HT0	13	12.47	17.640	23.98	PASS
44	5220	HT0	13	12.43	17.479	23.98	PASS
48	5240	HT0	13	12.44	17.519	23.98	PASS
52	5260	HT0	17.5	16.45	44.107	23.98	PASS
60	5300	HT0	17.5	16.48	44.413	23.98	PASS
64	5320	HT0	17	16.40	43.602	23.98	PASS
100	5500	HT0	17.5	16.42	43.803	23.98	PASS
116	5580	HT0	17.5	16.47	44.311	23.98	PASS
140	5700	HT0	17	16.43	43.904	23.98	PASS
144	5720(U-NII 2C)	HT0	17	14.98	31.46	23.98	PASS
144	5720 (U-NII 3)	HT0	17	10.95	12.44	30	PASS
149	5745	HT0	17	16.39	43.502	30	PASS
157	5785	HT0	17	16.46	44.209	30	PASS
165	5825	HT0	17.5	16.46	44.209	30	PASS

802.11n_HT20_Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	HT0	13	12.41	17.398	23.98	PASS
44	5220	HT0	13	12.40	17.358	23.98	PASS
48	5240	HT0	13	12.38	17.279	23.98	PASS
52	5260	HT0	17.5	16.38	43.402	23.98	PASS
60	5300	HT0	17.5	16.39	43.502	23.98	PASS
64	5320	HT0	17.5	16.37	43.302	23.98	PASS
100	5500	HT0	17.5	16.40	43.602	23.98	PASS
116	5580	HT0	17.5	16.44	44.006	23.98	PASS
140	5700	HT0	17.5	16.41	43.703	23.98	PASS
144	5720(U-NII 2C)	HT0	17	15.00	31.62	23.98	PASS
144	5720 (U-NII 3)	HT0	17	10.71	11.78	30	PASS
149	5745	HT0	17	16.38	43.402	30	PASS
157	5785	HT0	17	16.38	43.402	30	PASS
165	5825	HT0	17.5	16.41	43.703	30	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions Attention is drawn to the limitation of liability, indemnifi-cation 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 Tadvise Life at a st

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei	Industrial Park, Wuku District, New Taip	ei 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

Report No.: E2/2022/20117 Page: 70 of 271



802.11n HT20 MIMO

СН	Frequency	Data	Power	Avg. POWER (dBm)		TOTAL	TOTAL	REQUIRED	
CH.	(MHz)	Rate	set	Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
36	5180	HT8	13	12.35	12.24	15.39	34.594	23.98	PASS
44	5220	HT8	13	12.31	12.28	15.39	34.594	23.98	PASS
48	5240	HT8	13	12.32	12.27	15.39	34.594	23.98	PASS
52	5260	HT8	18	17.32	17.25	20.38	109.144	23.98	PASS
60	5300	HT8	18	17.4	17.36	20.48	111.686	23.98	PASS
64	5320	HT8	18	17.41	17.37	20.49	111.944	23.98	PASS
100	5500	HT8	18	17.39	17.36	20.47	111.429	23.98	PASS
116	5580	HT8	18	17.41	17.35	20.48	111.686	23.98	PASS
140	5700	HT8	17	17.01	16.92	20.06	101.391	23.98	PASS
144	5720(U-NII 2C)	HT8	17.5	15.93	15.94	19.03	80.058	23.02	PASS
144	5720 (U-NII 3)	HT8	17.5	11.90	11.65	14.88	30.743	29.76	PASS
149	5745	HT8	17.5	17.34	17.31	20.42	110.154	29.76	PASS
157	5785	HT8	17.5	17.31	17.29	20.40	109.648	29.76	PASS
165	5825	HT8	18	17.39	17.35	20.47	111.429	29.76	PASS

802.11n_HT40_Ch0

сн	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	HT0	13	12.51	17.832	23.98	PASS
46	5230	HT0	13	12.48	17.709	23.98	PASS
54	5270	HT0	17	16.44	44.075	23.98	PASS
62	5310	HT0	17	16.49	44.585	23.98	PASS
102	5510	HT0	17	16.45	44.177	23.98	PASS
110	5550	HT0	17	16.48	44.483	23.98	PASS
134	5670	HT0	16.5	16.44	44.075	23.98	PASS
142	5710(U-NII 2C)	HT0	16.5	15.85	38.50	23.98	PASS
142	5710 (U-NII 3)	HT0	16.5	7.70	5.88	30	PASS
151	5755	HT0	16.5	16.39	43.571	30	PASS
159	5795	HT0	16.5	16.41	43.772	30	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions Attention is drawn to the limitation of liability, indemnifi-cation 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 Tadvise Life at a st



802.11n_HT40_Ch1

СН	Frequency (MHz)	Data Rate	-	ower set	TOTAL POWER (dBm)	TOT POW (mV	ER	L	QUIRED _IMIT dBm)	RESULT
38	5190	HT0		13	12.44	17.5	47		23.98	PASS
46	5230	HT0		13	12.42	17.4	66		23.98	PASS
54	5270	HT0	1	7.5	16.47	44.3	81	2	23.98	PASS
62	5310	HT0		17	16.48	44.4	83	2	23.98	PASS
102	5510	HT0		17	16.41	43.7	72	2	23.98	PASS
110	5550	HT0		17	16.44	44.0			23.98	PASS
134	5670	HT0		17	16.43	43.9			23.98	PASS
142	5710(U-NII 2C)	HT0		6.5	15.79	37.9			23.98	PASS
142	5710 (U-NII 3)	HTO		6.5	7.64	5.8			30	PASS
	, ,	HTO								
151	5755			6.5	16.36	43.2			30	PASS
159	5795	HT0	1	6.5	16.39	43.5	71		30	PASS
802.11n H	T40 MIMO				1.1.1.1.1	1	1.1.1		5	
	Frequency	Data	Power	ower Avg. POWER		TOTAL		REQUIRED	the second second second	
СН	(MHz)	Rate	set	Ch0	Ch1	POWER (dBm)	POW (m)		LIMIT (dBm)	RESULT
38	5190	HT8	13	12.31	12.25	15.45	35.0	075	23.98	PASS
46	5230	HT8	13	12.31	12.24	15.45	35.0	075	23.98	PASS
54	5270	HT8	17	16.33	16.23	19.45	88.1	105	23.98	PASS
62	5310	HT8	16.5	16.26	16.21	19.41	87.2	297	23.98	PASS
102	5510	HT8	16.5	16.23	16.21	19.39	86.8	396	23.98	PASS
110	5550	HT8	17	16.32	16.25	19.46	88.3		23.98	PASS
134	5670	HT8	16.5	16.36	16.25	19.48	88.7	716	23.98	PASS
142	5710(U-NII 2C)	HT8	16.5	15.76	15.60	18.85	76.7	791	23.98	PASS
142	5710 (U-NII 3)	HT8	16.5	7.60	7.45	10.70	11.7		29.76	PASS
151	5755	HT8	16.5	16.32	16.28	19.47	88.5	512	29.76	PASS
159	5795	HT8	16.5	16.29	16.25	19.44	87.9		29.76	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions Attention is drawn to the limitation of liability, indemnifi-cation 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 Tadvise Life at a st



802.11ac_VHT20_Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	0	12.42	17.459	23.98	PASS
44	5220	MCS0	13	12.40	17.379	23.98	PASS
48	5240	MCS0	13	12.39	17.339	23.98	PASS
52	5260	MCS0	18.5	17.37	54.578	23.98	PASS
60	5300	MCS0	18	17.34	54.203	23.98	PASS
64	5320	MCS0	18	17.35	54.328	23.98	PASS
100	5500	MCS0	18.5	17.37	54.578	23.98	PASS
116	5580	MCS0	18.5	17.41	55.083	23.98	PASS
140	5700	MCS0	18	17.39	54.830	23.98	PASS
144	5720(U-NII 2C)	MCS0	18	15.90	38.93	23.98	PASS
144	5720 (U-NII 3)	MCS0	18	11.88	15.40	30	PASS
149	5745	MCS0	18	17.36	54.453	30	PASS
157	5785	MCS0	18.5	17.37	54.578	30	PASS
165	5825	MCS0	18.5	17.35	54.328	30	PASS
802.11ac	VHT20_Ch1						
				ΤΟΤΑΙ	ΤΟΤΑΙ	REQUIRED	

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
	(1112)	Nute	301	(dBm)	(mW)	(dBm)	
36	5180	MCS0	13	12.33	17.101	23.98	PASS
44	5220	MCS0	13	12.34	17.140	23.98	PASS
48	5240	MCS0	13	12.32	17.062	23.98	PASS
52	5260	MCS0	18.5	17.35	54.328	23.98	PASS
60	5300	MCS0	18.5	17.33	54.078	23.98	PASS
64	5320	MCS0	18	17.32	53.954	23.98	PASS
100	5500	MCS0	18.5	17.34	54.203	23.98	PASS
116	5580	MCS0	18.5	17.29	53.582	23.98	PASS
140	5700	MCS0	18.5	17.37	54.578	23.98	PASS
144	5720(U-NII 2C)	MCS0	18.5	15.95	39.31	23.98	PASS
144	5720 (U-NII 3)	MCS0	18.5	11.66	14.64	30	PASS
149	5745	MCS0	18	17.34	54.203	30	PASS
157	5785	MCS0	18	17.33	54.078	30	PASS
165	5825	MCS0	18.5	17.34	54.203	30	PASS

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 <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnifi-cation 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 document 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素園區五工路 134 號

SGS falwall Llu.	INO. 154, WU KUNG Road, New	Taiper industrial Park, wuku District, New	raiper City, Taiwan
台灣檢驗科技股份有限公司	t (886-2) 2299-3279	f (886-2) 2298-0488	www

Report No.: E2/2022/20117 Page: 73 of 271



802.11ac VHT20 MIMO

CH.	Frequency	Data	Power	Avg. POV	VER (dBm)	TOTAL	TOTAL	REQUIRED	
СН	(MHz)	Rate	set	Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
36	5180	MCS0	13	12.31	12.23	15.36	34.356	23.98	PASS
44	5220	MCS0	13	12.3	12.22	15.35	34.277	23.98	PASS
48	5240	MCS0	13	12.29	12.21	15.34	34.198	23.98	PASS
52	5260	MCS0	18.5	17.29	17.26	20.37	108.893	23.98	PASS
60	5300	MCS0	18	17.27	17.2	20.33	107.895	23.98	PASS
64	5320	MCS0	18	17.33	17.23	20.37	108.893	23.98	PASS
100	5500	MCS0	18	17.29	17.22	20.35	108.393	23.98	PASS
116	5580	MCS0	18	17.26	17.25	20.35	108.393	23.98	PASS
140	5700	MCS0	17	16.98	16.77	19.97	99.312	23.98	PASS
144	5720(U-NII 2C)	MCS0	18	15.84	15.86	18.94	78.326	23.02	PASS
144	5720 (U-NII 3)	MCS0	18	11.81	11.57	14.78	30.077	29.76	PASS
149	5745	MCS0	18	17.34	17.27	20.40	109.648	29.76	PASS
157	5785	MCS0	18	17.32	17.25	20.38	109.144	29.76	PASS
165	5825	MCS0	18.5	17.37	17.36	20.46	111.173	29.76	PASS

802.11ac VHT40 Ch0

сн	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	13	12.35	17.183	23.98	PASS
46	5230	MCS0	13	12.32	17.065	23.98	PASS
54	5270	MCS0	17.5	16.42	43.863	23.98	PASS
62	5310	MCS0	17	16.35	43.162	23.98	PASS
102	5510	MCS0	17.5	16.40	43.662	23.98	PASS
110	5550	MCS0	17.5	16.40	43.662	23.98	PASS
134	5670	MCS0	17	16.38	43.461	23.98	PASS
142	5710(U-NII 2C)	MCS0	17	15.75	37.61	23.98	PASS
142	5710 (U-NII 3)	MCS0	17	7.59	5.75	30	PASS
151	5755	MCS0	17	16.39	43.562	30	PASS
159	5795	MCS0	17	16.41	43.763	30	PASS

802.11ac_VHT40_Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	13	12.04	15.999	23.98	PASS
46	5230	MCS0	13	11.94	15.635	23.98	PASS
54	5270	MCS0	17.5	16.41	43.763	23.98	PASS
62	5310	MCS0	17	16.31	42.766	23.98	PASS
102	5510	MCS0	17	16.35	43.162	23.98	PASS
110	5550	MCS0	17.5	16.39	43.562	23.98	PASS
134	5670	MCS0	17	16.35	43.162	23.98	PASS
142	5710(U-NII 2C)	MCS0	17	15.74	37.52	23.98	PASS
142	5710 (U-NII 3)	MCS0	17	7.59	5.74	30	PASS
151	5755	MCS0	17	16.37	43.361	30	PASS
159	5795	MCS0	17	16.39	43.562	30	PASS

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei	Industrial Park, Wuku District, New Taipe	ei 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

Report No.: E2/2022/20117 Page: 74 of 271



802.11ac VHT40 MIMO

CH	Frequency	Data Rate	Power	Avg. POV	VER (dBm	TOTAL	TOTAL	REQUIRED	RESULT
СН	(MHz)		set	Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	
38	5190	MCS0	13	12.17	11.78	15.15	32.734	23.98	PASS
46	5230	MCS0	13	12.05	11.72	15.06	32.063	23.98	PASS
54	5270	MCS0	18	16.25	16.17	19.38	86.696	23.98	PASS
62	5310	MCS0	17.5	16.21	16.16	19.36	86.298	23.98	PASS
102	5510	MCS0	17.5	16.19	16.15	19.34	85.901	23.98	PASS
110	5550	MCS0	18	16.22	16.21	19.39	86,896	23.98	PASS
134	5670	MCS0	17.5	16.24	16.21	19.40	87.096	23.98	PASS
142	5710(U-NII 2C)	MCS0	17.5	15.59	15.56	18,75	74,945	23.98	PASS
142	5710 (U-NII 3)	MCS0	17.5	7.43	7.41	10.59	11.459	29.76	PASS
151	5755	MCS0	17.5	16.28	16.23	19.43	87,700	29.76	PASS
159	5795	MCS0	17.5	16.26	16.22	19.41	87.297	29.76	PASS

802.11ac_VHT80_Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	13	12.50	17.801	23.98	PASS
58	5290	MCS0	16	15.47	35.274	23.98	PASS
106	5530	MCS0	16.5	15.47	35.274	23.98	PASS
122	5610	MCS0	16	15.45	35.112	23.98	PASS
138	5690(U-NII 2C)	MCS0	16	14.94	31.21	23.98	PASS
138	5690 (U-NII 3)	MCS0	16	6.01	3.99	30	PASS
155	5775	MCS0	16	15.48	35.355	30	PASS

802.11ac_VHT80_Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	13	12.42	17.476	23.98	PASS
58	5290	MCS0	16	15.38	34.550	23.98	PASS
106	5530	MCS0	16	15.36	34.392	23.98	PASS
122	5610	MCS0	16	15.40	34.710	23.98	PASS
138	5690(U-NII 2C)	MCS0	16	14.82	30.31	23.98	PASS
138	5690 (U-NII 3)	MCS0	16	5.85	3.85	30	PASS
155	5775	MCS0	16	15.44	35.031	30	PASS

802.11ac VHT80 MIMO

CU	Frequency (MHz)	Data F Rate	Power	Avg. POWER (dBm		TOTAL	TOTAL	REQUIRED	Contraction (cd.)
СН			set	Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
42	5210	MCS0	13	12.12	12.03	15.41	34,754	23.98	PASS
58	5290	MCS0	16	15.14	15.05	18.43	69.663	23.98	PASS
106	5530	MCS0	16	15.12	15.08	18.43	69.663	23.98	PASS
122	5610	MCS0	16	15.19	15.01	18.44	69.823	23.98	PASS
138	5690(U-NII 2C)	MCS0	16	14.69	14.57	17.96	62.521	23.98	PASS
138	5690 (U-NII 3)	MCS0	16	5.75	5.61	9.01	7.960	29.76	PASS
155	5775	MCS0	16	15.17	15.1	18.47	70.307	29.76	PASS

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei	Industrial Park, Wuku District, New Taipe	i 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



9.5.2 ISED Conducted output power and EIRP

802.11a_Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.40	43.645	23.18	PASS
60	5300	16.42	43.846	23.18	PASS
64	5320	16.37	43.344	23.18	PASS
100	5500	16.42	43.846	23.18	PASS
116	5580	16.39	43.544	23.18	PASS
140	5700	16.38	43.444	23.18	PASS
144	5720(U-NII 2C)	14.85	30.525	22.22	PASS
144	5720 (U-NII 3)	10.98	12.521	30	PASS
149	5745	16.40	43.645	30	PASS
157	5785	16.43	43.947	30	PASS
165	5825	16.48	44.456	30	PASS

802.11a Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.34	43.046	23.18	PASS
60	5300	16.40	43.645	23.18	PASS
64	5320	16.35	43.145	23.19	PASS
100	5500	16.29	42.553	23.18	PASS
116	5580	16.37	43.344	23.18	PASS
140	5700	16.27	42.358	23.18	PASS
144	5720(U-NII 2C)	14.89	30.818	22.23	PASS
144	5720 (U-NII 3)	10.70	11.736	30	PASS
149	5745	16.39	43.544	30	PASS
157	5785	16.38	43.444	30	PASS
165	5825	16.36	43.245	30	PASS

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。

陳邦芳有說明¹ [L報告結果運到潮試之後前員頁,「回時山後m理味菌90人。今報告不經至公司音風計91,个小型的功後後。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnifi-cation 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 where the use the exercision of the company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations. under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488



802.11n_HT20_Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.45	44.107	23.48	PASS
60	5300	16.48	44.413	23.48	PASS
64	5320	16.40	43.602	23.48	PASS
100	5500	16.42	43.803	23.48	PASS
116	5580	16.47	44.311	23.48	PASS
140	5700	16.43	43.904	23.48	PASS
144	5720(U-NII 2C)	14.98	31.459	22.41	PASS
144	5720 (U-NII 3)	10.95	12.445	30	PASS
149	5745	16.39	43.502	30	PASS
157	5785	16.46	44.209	30	PASS
165	5825	16.46	44.209	30	PASS

802.11n_HT20_Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.38	43.402	23.48	PASS
60	5300	16.39	43.502	23.48	PASS
64	5320	16.37	43.302	23.48	PASS
100	5500	16.40	43.602	23.49	PASS
116	5580	16.44	44.006	23.5	PASS
140	5700	16.41	43.703	23.49	PASS
144	5720(U-NII 2C)	15.00	31.624	22.42	PASS
144	5720 (U-NII 3)	10.71	11.778	30	PASS
149	5745	16.38	43.402	30	PASS
157	5785	16.38	43.402	30	PASS
165	5825	16.41	43.703	30	PASS

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。

陳邦芳有說明¹ [Lintrachiang] (同時近後而僅保留90天)。本報告未經本公司書面計可) 不可局近復裝。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnifi-cation 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.

f (886-2) 2298-0488



802.11n_HT20_MIMO

сн	Frequency		E POWER 3m)	TOTAL POWER	TOTAL POWER	REQUIRED	RESULT
	(MHz)	Ch0	Ch1	(dBm)	(mW)	(dBm)	RESCEI
52	5260	17.32	17.25	20.38	109.144	23.48	PASS
60	5300	17.4	17.36	20.48	111.686	23.48	PASS
64	5320	17.41	17.37	20.49	111.944	23.48	PASS
100	5500	17.39	17.36	20.47	111.429	23.48	PASS
116	5580	17.41	17.35	20.48	111.686	23.48	PASS
140	5700	17.01	16.92	20.06	101.391	23.48	PASS
144	5720(U-NII 2C)	15.932	15.935	19.03	80.058	22.41	PASS
144	5720 (U-NII 3)	11.905	11.646	14.88	30.743	29.76	PASS
149	5745	17.34	17.31	20.42	110.154	29.76	PASS
157	5785	17.31	17.29	20.40	109.648	29.76	PASS
165	5825	17.39	17.35	20.47	111.429	29.76	PASS

802.11n HT40 Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	16.44	44.075	23.98	PASS
62	5310	16.49	44.585	23.98	PASS
102	5510	16.45	44.177	23.98	PASS
110	5550	16.48	44.483	23.98	PASS
134	5670	16.44	44.075	23.98	PASS
142	5710(U-NII 2C)	15.85	38.499	23.98	PASS
142	5710 (U-NII 3)	7.70	5.882	30	PASS
151	5755	16.39	43.571	30	PASS
159	5795	16.41	43.772	30	PASS

802.11n_HT40_Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	16.47	44.381	23.98	PASS
62	5310	16.48	44.483	23.98	PASS
102	5510	16.41	43.772	23.98	PASS
110	5550	16.44	44.075	23.98	PASS
134	5670	16.43	43.974	23.98	PASS
142	5710(U-NII 2C)	15.79	37.963	23.98	PASS
142	5710 (U-NII 3)	7.64	5.809	30	PASS
151	5755	16.36	43.271	30	PASS
159	5795	16.39	43.571	30	PASS

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



802.11n_HT40_MIMO

CH Frequency		AVERAGE POWER (dBm)		TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
	(MHz)	Ch0	Ch1	(dBm)	(mW)	(dBm)	REGOLI
54	5270	16.33	16.23	19.45	88.105	23.98	PASS
62	5310	16.26	16.21	19.41	87.297	23.98	PASS
102	5510	16.23	16.21	19.39	86.896	23.98	PASS
110	5550	16.32	16.25	19.46	88.308	23.98	PASS
134	5670	16.36	16.25	19.48	88.716	23.98	PASS
142	5710(U-NII 2C)	15.763	15.602	18.85	76.791	23.98	PASS
142	5710 (U-NII 3)	7.6032	7.4491	10.70	11.741	29.76	PASS
151	5755	16.32	16.28	19.47	88.512	29.76	PASS
159	5795	16.29	16.25	19.44	87.902	29.76	PASS

802.11ac_VHT20_Ch0

сн	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.37	54.578	23.48	PASS
60	5300	17.34	54.203	23.48	PASS
64	5320	17.35	54.328	23.48	PASS
100	5500	17.37	54.578	23.48	PASS
116	5580	17.41	55.083	23.48	PASS
140	5700	17.39	54.830	23.48	PASS
144	5720(U-NII 2C)	15.90	38.928	22.41	PASS
144	5720 (U-NII 3)	11.88	15.400	30	PASS
149	5745	17.36	54.453	30	PASS
157	5785	17.37	54.578	30	PASS
165	5825	17.35	54.328	30	PASS



802.11ac_VHT20_Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.35	54.328	23.48	PASS
60	5300	17.33	54.078	23.48	PASS
64	5320	17.32	53.954	23.48	PASS
100	5500	17.34	54.203	23.49	PASS
116	5580	17.29	53.582	23.5	PASS
140	5700	17.37	54.578	23.49	PASS
144	5720(U-NII 2C)	15.95	39.312	22.42	PASS
144	5720 (U-NII 3)	11.66	14.642	30	PASS
149	5745	17.34	54.203	30	PASS
157	5785	17.33	54.078	30	PASS
165	5825	17.34	54.203	30	PASS

802.11ac_VHT20_MIMO

СН	CH		E POWER 3m)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
	(MHz)	Ch0	Ch1	(dBm)	(mW)	(dBm)	RESOLI
52	5260	17.29	17.26	20.37	108.893	23.48	PASS
60	5300	17.27	17.2	20.33	107.895	23.48	PASS
64	5320	17.33	17.23	20.37	108.893	23.48	PASS
100	5500	17.29	17.22	20.35	108.393	23.48	PASS
116	5580	17.26	17.25	20.35	108.393	23.48	PASS
140	5700	16.98	16.77	19.97	99.312	23.48	PASS
144	5720(U-NII 2C)	15.842	15.855	18.94	78.326	22.41	PASS
144	5720 (U-NII 3)	11.815	11.566	14.78	30.077	29.76	PASS
149	5745	17.34	17.27	20.40	109.648	29.76	PASS
157	5785	17.32	17.25	20.38	109.144	29.76	PASS
165	5825	17.37	17.36	20.46	111.173	29.76	PASS

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。

解決另有說明,此報告結果僅對測試之樣品頁實,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnifi-cation 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.



802.11ac_VHT40_Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	16.42	43.863	23.98	PASS
62	5310	16.35	43.162	23.98	PASS
102	5510	16.40	43.662	23.98	PASS
110	5550	16.40	43.662	23.98	PASS
134	5670	16.38	43.461	23.98	PASS
142	5710(U-NII 2C)	15.75	37.615	23.98	PASS
142	5710 (U-NII 3)	7.59	5.747	30	PASS
151	5755	16.39	43.562	30	PASS
159	5795	16.41	43.763	30	PASS

802.11ac_VHT40_Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	16.41	43.763	23.98	PASS
62	5310	16.31	42.766	23.98	PASS
102	5510	16.35	43.162	23.98	PASS
110	5550	16.39	43.562	23.98	PASS
134	5670	16.35	43.162	23.98	PASS
142	5710(U-NII 2C)	15.74	37.520	23.98	PASS
142	5710 (U-NII 3)	7.59	5.741	30	PASS
151	5755	16.37	43.361	30	PASS
159	5795	16.39	43.562	30	PASS

802.11ac_VHT40_MIMO

сн	CH Frequency		E POWER 3m)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
	(MHz)	Ch0	Ch1	(dBm)	(mW)	(dBm)	RECOL
54	5270	16.25	16.17	19.38	86.696	23.98	PASS
62	5310	16.21	16.16	19.36	86.298	23.98	PASS
102	5510	16.19	16.15	19.34	85.901	23.98	PASS
110	5550	16.22	16.21	19.39	86.896	23.98	PASS
134	5670	16.24	16.21	19.40	87.096	23.98	PASS
142	5710(U-NII 2C)	15.593	15.562	18.75	74.945	23.98	PASS
142	5710 (U-NII 3)	7.4332	7.4091	10.59	11.459	29.76	PASS
151	5755	16.28	16.23	19.43	87.700	29.76	PASS
159	5795	16.26	16.22	19.41	87.297	29.76	PASS

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei	Industrial Park, Wuku District, New Taipe	ei 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



802.11ac_VHT80_Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	15.47	35.274	23.98	PASS
106	5530	15.47	35.274	23.98	PASS
122	5610	15.45	35.112	23.98	PASS
138	5690(U-NII 2C)	14.94	31.207	23.98	PASS
138	5690 (U-NII 3)	6.01	3.986	30	PASS
155	5775	15.48	35.355	30	PASS

802.11ac_VHT80_Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	15.38	34.550	23.98	PASS
106	5530	15.36	34.392	23.98	PASS
122	5610	15.40	34.710	23.98	PASS
138	5710(U-NII 2C)	14.82	30.308	23.98	PASS
138	5690 (U-NII 3)	5.85	3.846	30	PASS
155	5775	15.44	35.031	30	PASS

802.11ac_VHT80_MIMO

台灣檢驗

сн	CH Frequency (MHz)		AVERAGE POWER (dBm)		TOTAL POWER	REQUIRED	RESULT
		Ch0	Ch1	POWER (dBm)	(mW)	(dBm)	
58	5290	15.14	15.05	18.43	69.663	23.98	PASS
106	5530	15.12	15.08	18.43	69.663	23.98	PASS
122	5610	15.19	15.01	18.44	69.823	23.98	PASS
138	5710(U-NII 2C)	14.688	14.571	17.96	62.521	23.98	PASS
138	5690 (U-NII 3)	5.7508	5.6061	9.01	7.960	29.76	PASS
155	5775	15.17	15.1	18.47	70.307	29.76	PASS

SGS Taiwan Ltd.	No.134,Wu Kung Road, New T	aipei Industrial Park, Wuku District, New Taipei Cit	y, Taiwan/新北市五股區新北產業園區五工路 134 號
验科技股份有限公司	t (886-2) 2299-3279	f (886-2) 2298-0488	www.sgs.com.tw



802.11a Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.36	2.77	19.13	81.846	22.19	PASS
44	5220	16.41	2.77	19.18	82.794	22.18	PASS
48	5240	16.44	2.77	19.21	83.368	22.19	PASS
52	5260	16.40	2.45	18.85	76.736	29.18	PASS
60	5300	16.42	2.45	18.87	77.090	29.18	PASS
64	5320	16.37	2.45	18.82	76.208	29.18	PASS
100	5500	16.42	2.81	19.23	83.753	29.18	PASS
116	5580	16.39	2.81	19.20	83.176	29.18	PASS
140	5700	16.38	2.81	19.19	82.985	29.18	PASS

802.11a Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.35	2.450	18.80	75.858	23.01	PASS
44	5220	16.30	2.450	18.75	74.989	23.01	PASS
48	5240	16.37	2.450	18.82	76.208	23.01	PASS
52	5260	16.34	1.920	18.26	66.988	30	PASS
60	5300	16.40	1.920	18.32	67.920	30	PASS
64	5320	16.35	1.920	18.27	67.143	30	PASS
100	5500	16.29	2.860	19.15	82.224	30	PASS
116	5580	16.37	2.860	19.23	83.753	30	PASS
140	5700	16.27	2.860	19.13	81.846	30	PASS

802.11n_HT20_Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.47	2.77	15.24	33.420	22.48	PASS
44	5220	12.43	2.77	15.20	33.113	22.48	PASS
48	5240	12.44	2.77	15.21	33.189	22.48	PASS
52	5260	16.45	2.45	18.90	77.625	29.48	PASS
60	5300	16.48	2.45	18.93	78.163	29.48	PASS
64	5320	16.40	2.45	18.85	76.736	29.48	PASS
100	5500	16.42	2.81	19.23	83.753	29.48	PASS
116	5580	16.47	2.81	19.28	84.723	29.48	PASS
140	5700	16.43	2.81	19.24	83.946	29.48	PASS

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei	ndustrial Park, Wuku District, New Taipei C	Sity, 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



802.11n HT20 Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.41	2.450	14.86	30.620	23.01	PASS
44	5220	12.40	2.450	14.85	30.549	23.01	PASS
48	5240	12.38	2.450	14.83	30.409	23.01	PASS
52	5260	16.38	1.920	18.30	67.608	30	PASS
60	5300	16.39	1.920	18.31	67.764	30	PASS
64	5320	16.37	1.920	18.29	67.453	30	PASS
100	5500	16.40	2.860	19.26	84.333	30	PASS
116	5580	16.44	2.860	19.30	85.114	30	PASS
140	5700	16.41	2.860	19.27	84.528	30	PASS

802.11n_HT20_MIMO

сн	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.39	5.62	21.01	126.183	22.48	PASS
44	5220	15.39	5.62	21.01	126.183	22.48	PASS
48	5240	15.39	5.62	21.01	126.183	22.48	PASS
52	5260	20.38	5.20	25.58	361.410	29.48	PASS
60	5300	20.48	5.20	25.68	369.828	29.48	PASS
64	5320	20.49	5.20	25.69	370.681	29.48	PASS
100	5500	20.47	5.85	26.32	428.549	29.48	PASS
116	5580	20.48	5.85	26.33	429.536	29.48	PASS
140	5700	20.06	5.85	25.91	389.942	29.48	PASS

802.11n_HT40_Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.51	2.77	15.28	33.729	23.01	PASS
46	5230	12.48	2.77	15.25	33.497	23.01	PASS
54	5270	16.44	2.45	18.89	77.446	30	PASS
62	5310	16.49	2.45	18.94	78.343	30	PASS
102	5510	16.45	2.81	19.26	84.333	30	PASS
110	5550	16.48	2.81	19.29	84.918	30	PASS
134	5670	16.44	2.81	19.25	84.140	30	PASS

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei	Industrial Park, Wuku District, New Taipe	i 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



802.11n HT40 Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.44	2.450	14.89	30.832	23.01	PASS
46	5230	12.42	2.450	14.87	30.690	23.01	PASS
54	5270	16.47	1.920	18.39	69.024	30	PASS
62	5310	16.48	1.920	18.40	69.183	30	PASS
102	5510	16.41	2.860	19.27	84.528	30	PASS
110	5550	16.44	2.860	19.30	85.114	30	PASS
134	5670	16.43	2.860	19.29	84.918	30	PASS

802.11n_HT40_MIMO

сн	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.45	5.62	21.07	127.938	23.01	PASS
46	5230	15.45	5.62	21.07	127.938	23.01	PASS
54	5270	19.45	5.20	24.65	291.743	30	PASS
62	5310	19.41	5.20	24.61	289.068	30	PASS
102	5510	19.39	5.85	25.24	334.195	30	PASS
110	5550	19.46	5.85	25.31	339.625	30	PASS
134	5670	19.48	5.85	25.33	341.193	30	PASS

802.11ac_VHT20_Ch0

СН	– Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.42	2.77	15.19	33.037	22.48	PASS
44	5220	12.40	2.77	15.17	32.885	22.48	PASS
48	5240	12.39	2.77	15.16	32.810	22.48	PASS
52	5260	17.37	2.45	19.82	95.940	29.48	PASS
60	5300	17.34	2.45	19.79	95.280	29.48	PASS
64	5320	17.35	2.45	19.80	95.499	29.48	PASS
100	5500	17.37	2.81	20.18	104.232	29.48	PASS
116	5580	17.41	2.81	20.22	105.196	29.48	PASS
140	5700	17.39	2.81	20.20	104.713	29.48	PASS

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei	Industrial Park, Wuku District, New Taip	pei 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



802.11ac VHT20 Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.33	2.450	14.78	30.061	23.01	PASS
44	5220	12.34	2.450	14.79	30.130	23.01	PASS
48	5240	12.32	2.450	14.77	29.992	23.01	PASS
52	5260	17.35	1.920	19.27	84.528	30	PASS
60	5300	17.33	1.920	19.25	84.140	30	PASS
64	5320	17.32	1.920	19.24	83.946	30	PASS
100	5500	17.34	2.860	20.20	104.713	30	PASS
116	5580	17.29	2.860	20.15	103.514	30	PASS
140	5700	17.37	2.860	20.23	105.439	30	PASS

802.11ac_VHT20_MIMO

сн	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.36	5.62	20.98	125.314	22.48	PASS
44	5220	15.35	5.62	20.97	125.026	22.48	PASS
48	5240	15.34	5.62	20.96	124.738	22.48	PASS
52	5260	20.37	5.20	25.57	360.579	29.48	PASS
60	5300	20.33	5.20	25.53	357.273	29.48	PASS
64	5320	20.37	5.20	25.57	360.579	29.48	PASS
100	5500	20.35	5.85	26.20	416.869	29.48	PASS
116	5580	20.35	5.85	26.20	416.869	29.48	PASS
140	5700	19.97	5.85	25.82	381.944	29.48	PASS

802.11ac_VHT40_Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.35	2.77	15.12	32.509	23.01	PASS
46	5230	12.32	2.77	15.09	32.285	23.01	PASS
54	5270	16.42	2.45	18.87	77.090	30	PASS
62	5310	16.35	2.45	18.80	75.858	30	PASS
102	5510	16.40	2.81	19.21	83.368	30	PASS
110	5550	16.40	2.81	19.21	83.368	30	PASS
134	5670	16.38	2.81	19.19	82.985	30	PASS

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei	Industrial Park, Wuku District, New Taipe	ei 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



802.11ac_VHT40_Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.04	2.450	14.49	28.119	23.01	PASS
46	5230	11.94	2.450	14.39	27.479	23.01	PASS
54	5270	16.41	1.920	18.33	68.077	30	PASS
62	5310	16.31	1.920	18.23	66.527	30	PASS
102	5510	16.35	2.860	19.21	83.368	30	PASS
110	5550	16.39	2.860	19.25	84.140	30	PASS
134	5670	16.35	2.860	19.21	83.368	30	PASS

802.11ac_VHT40_MIMO

сн	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.15	5.62	20.77	119.399	23.01	PASS
46	5230	15.06	5.62	20.68	116.950	23.01	PASS
54	5270	19.38	5.20	24.58	287.078	30	PASS
62	5310	19.36	5.20	24.56	285.759	30	PASS
102	5510	19.34	5.85	25.19	330.370	30	PASS
110	5550	19.39	5.85	25.24	334.195	30	PASS
134	5670	19.40	5.85	25.25	334.965	30	PASS

802.11ac_VHT80_Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	12.50	2.77	15.27	33.651	23.01	PASS
58	5290	15.47	2.45	17.92	61.944	30	PASS
106	5530	15.47	2.81	18.28	67.298	30	PASS

802.11ac_VHT80_Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	12.42	2.450	14.87	30.690	23.01	PASS
58	5290	15.38	1.920	17.30	53.703	30	PASS
106	5530	15.36	2.860	18.22	66.374	30	PASS

802.11ac_VHT80_MIMO

сн	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	15.41	5.62	21.03	126.765	23.01	PASS
58	5290	18.43	5.20	23.63	230.675	30	PASS
106	5530	18.43	5.85	24.28	267.917	30	PASS

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



10 MAXIMUM POWER SPECTRAL DENSITY

10.1 **Standard Applicable**

Operation Bands	EU	T CATEGORY	e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
Outdoor Access Point (Master)			2 EIRP<=125mW(21dBm) at any elevation 6dBi	
U-NII-1	U-NII-1 Indoor Access Point (Master)		17dBm/ MHz	6dBi
		Fixed point-to- point Access Ponit	17dBm/ MHz	23dBi
	۷	Client device	11dBm/ MHz	6dBi
U-NII-2A	٧	All	11dBm/ MHz	6dBi
U-NII-2C	۷	All	11dBm/ MHz	6dBi
U-NII-3	V	All	30dBm/ 500kHz	6dBi
	•	•	in greater than the antenna requirements colum amount in dB that the direction-al gain of the a	

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。

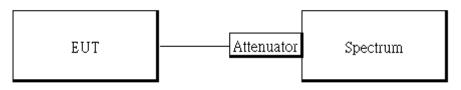
解決另有說明,此報告結果僅對測試之樣品頁實,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnifi-cation 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.



FREQUENCY BAND	C	EUT ATEGORY	RSS-247 §6.2.1~6.2.4	
(MHz)			EIRP Density	Power Density
5150~5250		OEM devices installed in vehicles	N/A	N/A
	٧	Other device	10 dBm/MHz	N/A
5250~5350		OEM devices installed in vehicles	N/A	N/A
3230 3330	V	Other device	N/A	11 dBm/MHz
5470-5600 and 5650-5725	V	All		11 dBm/MHz
5725~5850	V	All	N/A	30 dBm/500kHz

For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

10.2 Test Setup



10.3 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.

4. For U-NII1, U-NII-2A, U-NII-2C Band:

Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

For U-NII-3 Band:

Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto,

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.



detector = RMS or sample, traces 100 sweeps of video averaging.

In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.

- 5. User the cursor on spectrum to peak search the highest level of trace
- 6. Record the max. reading and add 10 log(1/duty cycle).
- 7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
- 8. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

• DirectionalGain =
$$10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

 $g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not; G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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。

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.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to is 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.



10.4 **Measurement Result**

		PO	VER DENSITY 80	2.11a MODE			
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	6.79	6.47	0.00	6.79		11.00 dBm/MHz	-4.21
5220	6.58	6.31	0.00	6.	58	11.00 dBm/MHz	-4.42
5240	6.22	5.94	0.00	6.1	22	11.00 dBm/MHz	-4.78
5260	5.83	6.48	0.00	6.4	48	11.00 dBm/MHz	-4.52
5300	4.76	5.75	0.00	5.	75	11.00 dBm/MHz	-5.26
5320	5.32	6.00	0.00	6.	00	11.00 dBm/MHz	-5.00
5500	6.18	6.46	0.00	6.4	46	11.00 dBm/MHz	-4.54
5580	6.14	6.63	0.00	6.	63	11.00 dBm/MHz	-4.37
5700	6.52	6.75	0.00	6.	75	11.00 dBm/MHz	-4.25
5720 (U-NII 2C)	6.23	6.79	0.00	6.	79	11.00 dBm/MHz	-4.21
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	6.79 10log (500kHz/RBW) Factor(dB) Maxmum Corr'd PSD (dBm/500kHz)		Limit	Margin (dB)
5720 (U-NII 3)	-0.27	0.37	0.00	2.22	2.59	30.00 dBm/500kHz	-27.41
5745	1.34	2.55	0.00	2.22	4.77	30.00 dBm/500kHz	-25.23
5785	0.82	2.08	0.00	2.22	4.30	30.00 dBm/500kHz	-25.70
5825	1.48	2.86	0.00	2.22	5.08	30.00 dBm/500kHz	-24.92
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'c	d PSD(dBm/MHz)	Limit	Margin (dB)
5180							(ub)
	0.96	1.50	0.00	4.	25	11.00 dBm/MHz	. ,
5220	0.96	1.50 0.78	0.00	-	25	11.00 dBm/MHz 11.00 dBm/MHz	-6.75
5220 5240	1.29	0.78	0.00	4.	05	11.00 dBm/MHz	-6.75 -6.95
5240	1.29 1.05	0.78 0.57	0.00	4. 3.	05 82	11.00 dBm/MHz 11.00 dBm/MHz	-6.75 -6.95 -7.18
5240 5260	1.29 1.05 5.35	0.78 0.57 6.03	0.00 0.00 0.00	4. 3. 8.	05 82 71	11.00 dBm/MHz 11.00 dBm/MHz 11.00 dBm/MHz	-6.75 -6.95 -7.18 -2.29
5240 5260 5300	1.29 1.05 5.35 5.86	0.78 0.57 6.03 5.83	0.00 0.00 0.00 0.00	4. 3. 8. 8.	05 82 71 85	11.00 dBm/MHz 11.00 dBm/MHz 11.00 dBm/MHz 11.00 dBm/MHz	-6.75 -6.95 -7.18 -2.29 -2.15
5240 5260 5300 5320	1.29 1.05 5.35 5.86 5.81	0.78 0.57 6.03 5.83 6.20	0.00 0.00 0.00 0.00 0.00	4. 3. 8. 8. 9.	05 82 71 85 02	11.00 dBm/MHz 11.00 dBm/MHz 11.00 dBm/MHz 11.00 dBm/MHz 11.00 dBm/MHz 11.00 dBm/MHz	-6.75 -6.95 -7.18 -2.29 -2.15 -1.98
5240 5260 5300 5320 5500	1.29 1.05 5.35 5.86 5.81 6.08	0.78 0.57 6.03 5.83 6.20 6.20	0.00 0.00 0.00 0.00 0.00 0.00	4. 3. 8. 9. 9.	05 82 71 85 02 15	11.00 dBm/MHz	-6.75 -6.95 -7.18 -2.29 -2.15 -1.98 -1.85
5240 5260 5300 5320 5500 5580	1.29 1.05 5.35 5.86 5.81 6.08 6.24	0.78 0.57 6.03 5.83 6.20 6.20 6.99	0.00 0.00 0.00 0.00 0.00 0.00 0.00	4. 3. 8. 8. 9. 9. 9.	05 82 71 85 02 15 64	11.00 dBm/MHz	-6.75 -6.95 -7.18 -2.29 -2.15 -1.98 -1.85 -1.36
5240 5260 5300 5320 5500 5580 5580 5700	1.29 1.05 5.35 5.86 5.81 6.08	0.78 0.57 6.03 5.83 6.20 6.20 6.20 6.99 6.73	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	4. 3. 8. 9. 9. 9. 9.	05 82 71 85 02 15 64 44	11.00 dBm/MHz	-6.75 -6.95 -7.18 -2.29 -2.15 -1.98 -1.85 -1.36 -1.56
5240 5260 5300 5320 5500 5580	1.29 1.05 5.35 5.86 5.81 6.08 6.24 6.12	0.78 0.57 6.03 5.83 6.20 6.20 6.99	0.00 0.00 0.00 0.00 0.00 0.00 0.00	4. 3. 8. 9. 9. 9. 9.	05 82 71 85 02 15 64	11.00 dBm/MHz	-6.75 -6.95 -7.18 -2.29 -2.15 -1.98 -1.85 -1.36 -1.56 -1.60
5240 5260 5300 5320 5550 5580 5700 5720 (U-NII 2C) Frequency	1.29 1.05 5.35 5.86 5.81 6.08 6.24 6.12 6.20	0.78 0.57 6.03 5.83 6.20 6.20 6.20 6.99 6.73 6.57 Ch1 meas PSD	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	4. 3. 8. 9. 9. 9. 9. 9. 9. 9. 10log (500kHz/RBW)	05 82 71 85 02 15 64 44 40 Maxmum Corr'd	11.00 dBm/MHz 11.00 dBm/MHz	-6.75 -6.95 -7.18 -2.29 -2.15 -1.98 -1.85 -1.36 -1.56 -1.60 Margin
5240 5260 5300 5320 5550 5580 5700 5720 (U-NII 2C) Frequency (MHz)	1.29 1.05 5.35 5.86 5.81 6.08 6.24 6.12 6.20 Ch0 meas PSD (dBm/300kHz)	0.78 0.57 6.03 5.83 6.20 6.20 6.20 6.99 6.73 6.57 Ch1 meas PSD (dBm/300kHz)	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	4. 3. 8. 9. 9. 9. 9. 9. 10log (500kHz/RBW) Factor(dB)	05 82 71 85 02 15 64 44 40 Maxmum Corr'd PSD(dBm/500kHz) 5.45	11.00 dBm/MHz 29.76 dBm/500kHz	-6.75 -6.95 -7.18 -2.29 -2.15 -1.98 -1.85 -1.36 -1.56 -1.60 Margin (dB)
5240 5260 5300 5320 5500 5580 5700 5720 (U-NII 2C) Frequency (MHz) 5720 (U-NII 3)	1.29 1.05 5.35 5.86 5.81 6.08 6.24 6.12 6.20 Ch0 meas PSD (dBm/300kHz) -0.13	0.78 0.57 6.03 5.83 6.20 6.20 6.20 6.99 6.73 6.57 Ch1 meas PSD (dBm/300kHz) 0.54	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	4. 3. 8. 9. 9. 9. 9. 9. 9. 10log (500kHz/RBW) Factor(dB) 2.22	05 82 71 85 02 15 64 44 40 Maxmum Corr'd PSD(dBm/500kHz)	11.00 dBm/MHz Limit Limit	-6.75 -6.95 -7.18 -2.29 -2.15 -1.98 -1.85 -1.36 -1.56 -1.60 Margin (dB) -24.31

SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei	Industrial Park, Wuku District, New Taip	ei 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

Report No.: E2/2022/20117 Page: 91 of 271



	POWER DENSITY 802.11n HT40 MODE									
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)			
5190	-0.77	-1.47	0.16	2.	06	11.00 dBm/MHz	-8.94			
5230	-1.72	-1.86	0.16	1.	38	11.00 dBm/MHz	-9.62			
5270	1.37	2.19	0.16	4.	97	11.00 dBm/MHz	-6.03			
5310	1.31	1.33	0.16	4.49		11.00 dBm/MHz	-6.51			
5510	1.37	2.07	0.16	4.90		11.00 dBm/MHz	-6.10			
5550	2.20	2.18	0.16	5.	36	11.00 dBm/MHz	-5.64			
5670	2.24	2.36	0.16	5.	47	11.00 dBm/MHz	-5.53			
5710 (U-NII 2C)	1.61	2.51	0.16	5.	25	11.00 dBm/MHz	-5.75			
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB) Maxmum Corr'd PSD(dBm/500kHz)		Limit	Margin (dB)			
5710 (U-NII 3)	-4.85	-4.08	0.16	2.22	0.94	29.76 dBm/500kHz	-28.82			
5755	-3.39	-2.96	0.16	2.22	2.22	29.76 dBm/500kHz	-27.54			
5795	-3.47	-2.25	0.16	2.22	2.58	29.76 dBm/500kHz	-27.18			

	POWER DENSITY 802.11ac VHT80 MODE									
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)			
5210	-5.68	-5.65	0.32	-2.	33	11.00 dBm/MHz	-13.33			
5290	-3.33	-3.26	0.32	0.04		11.00 dBm/MHz	-10.96			
5530	-3.84	-3.47	0.32	-0.32		11.00 dBm/MHz	-11.32			
5610	-3.23	-2.34	0.32	0.	57	11.00 dBm/MHz	-10.43			
5690 (U-NII 2C)	-3.12	-3.11	0.32	0.	22	11.00 dBm/MHz	-10.78			
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)) Maxmum Corr'd PSD(dBm/500kHz)		Limit	Margin (dB)			
5690 (U-NII 3)	-9.14	-7.73	0.32	2.22	-2.83	29.76 dBm/500kHz	-32.59			
5775	-8.15	-7.36	0.32	2.22	-2.19	29.76 dBm/500kHz	-31.95			

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權品負責,同時此樣品懂保留'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 <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnifi-cation 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 is enproduced 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 unawful 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/新北南玉素園區新北產素園區五工路 134 號

SGS Talwan Ltd.	NO.134,Wu Kung Road, New Taipei	Industrial Park, Wuku District, New Taipei	City, laiwan/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

SG	S				Report N Page: 92	
[E	IRP spectra	I density 80	02.11a MOI	DE	
	Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
ľ	5180	6.79	2.77	9.56	10	-0.44
Γ	5220	6.58	2.77	9.35	10	-0.65
	5240	6.22	2.77	8.99	10	-1.01
	EIRF	spectral d	ensity 802. [,]	11n HT20 M	IODE	
	Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
	5180	4.25	5.62	9.87	10	-0.13
	5220	4.05	5.62	9.67	10	-0.33
	5240	3.82	5.62	9.44	10	-0.56
	EIRF	spectral d	ensity 802. ⁻	11n HT40 M	IODE	•
	Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
	5190	2.06	5.62	7.68	10	-2.32
Γ	5230	1.38	5.62	7.00	10	-3.00

EIRP spectral density 802.11ac VHT80 MODE									
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)				
5210	-2.33	5.62	3.29	10	-6.71				

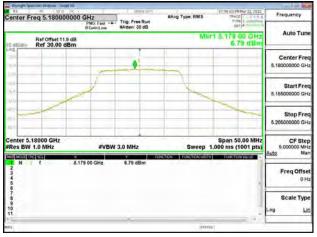
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

解決另有說明,此報告結果僅對測試之樣品頁實,同時比樣品僅保留90天。本報告未經本公司書面計可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnifi-cation and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



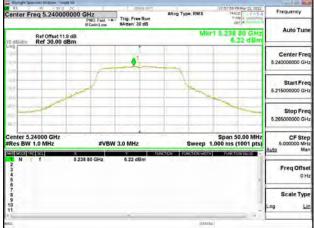
Report No.: E2/2022/20117 Page: 93 of 271

802.11a_20MHz_Chain0_5180MHz

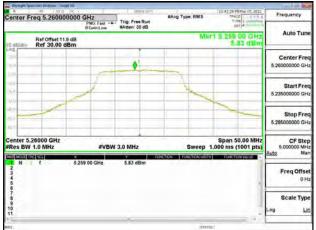


802.11a_20MHz_Chain0_5220MHz Frequency #Avg Type, RMS Auto Tu Ref Offset 11.8 dB Ref 30.00 dBm Center Fr Start Fre 5.19 Stop Fr 5.2 nter 5.22000 GHz Span 50.00 MHz Sweep 1.000 ms (1001 pts) CF Step #VBW 3.0 MH; 5.00 Freq Offs 01 Scale Typ

802.11a 20MHz Chain0 5240MHz



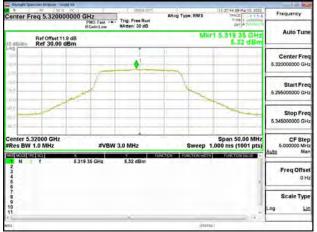




802.11a_20MHz_Chain0_5300MHz



802.11a 20MHz Chain0 5320MHz



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

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions 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.

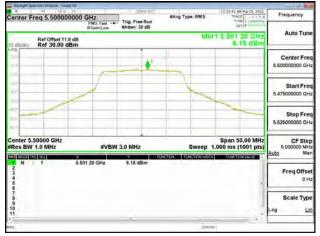
台》	曽檢驗	科技	股份	 有限	公司

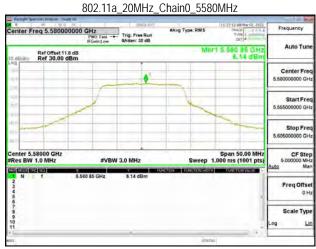
SGS Taiwan Ltd.

f (886-2) 2298-0488

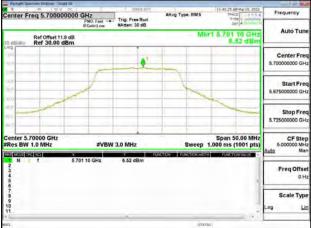
Report No.: E2/2022/20117 Page: 94 of 271

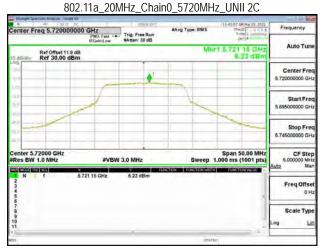
802.11a_20MHz_Chain0_5500MHz





802.11a_20MHz_Chain0_5700MHz

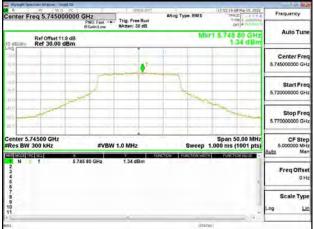




802.11a_20MHz_Chain0_5720MHz_UNII 3



802.11a_20MHz_Chain0_5745MHz



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 <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, 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

Cation and jurisdiction issues defined therein. Any noiser of this document is advised that information contained nereon reflects the Company's infolings 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	创计的	份古日	医公司
百两儆儆;	竹仪成	177 / ¶	医公司

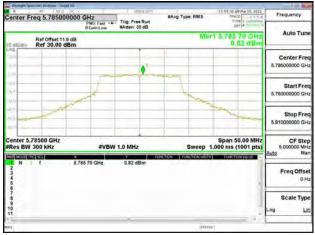
t (886-2) 2299-3279 f (886-2) 2298-0488

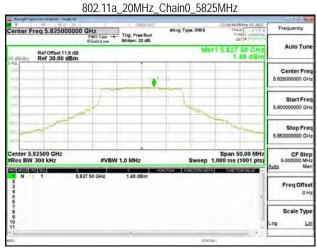
aipei City, Taiwan/新北市五股區新北產業園 www.sgs.com.tw



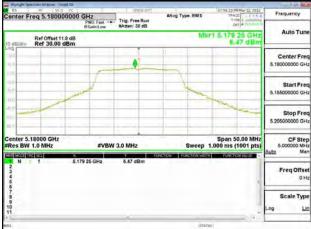
Report No.: E2/2022/20117 Page: 95 of 271

802.11a_20MHz_Chain0_5785MHz





802.11a 20MHz Chain1 5180MHz



802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain1_5240MHz



802.11a 20MHz Chain1 5260MHz



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

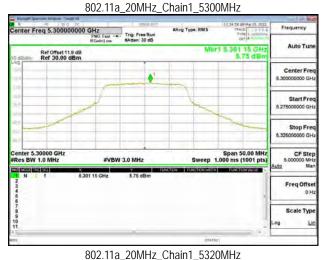
開かっ方方式のサイレ報告の未識到規構に実施的実見 「回時可能能的業業業」のあったの目前の「シーマーのの目前で、「シーマーのの目後後、 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnifi-cation 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.

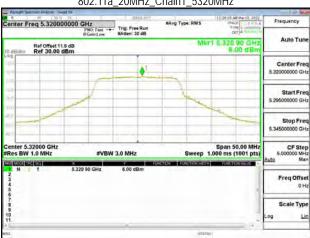
ooo lallal Etal	rio. 104, Wu Kung Kouu, Now
台灣檢驗科技股份有限公司	t (886-2) 2299-3279

aiwan I td

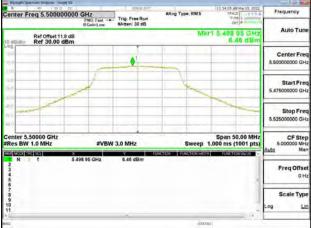
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488

Report No.: E2/2022/20117 Page: 96 of 271

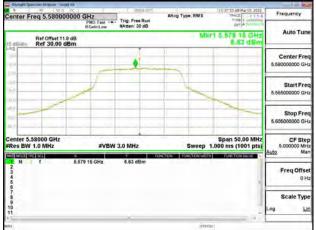




802.11a 20MHz Chain1 5500MHz



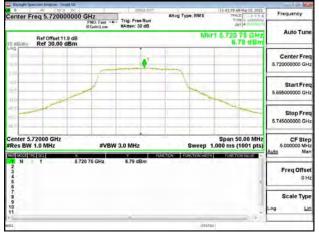
802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5700MHz



802.11a 20MHz Chain1 5720MHz UNII 2C



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

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions 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.

		• • • • •		
台灣檢驗	科技	と股份	有限	公司

SGS Taiwan Ltd

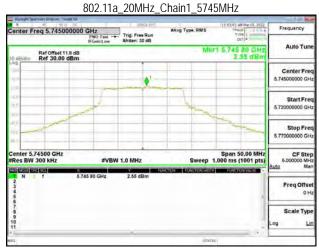
f (886-2) 2298-0488

Report No.: E2/2022/20117 Page: 97 of 271



802.11a_20MHz_Chain1_5720MHz_UNII 3

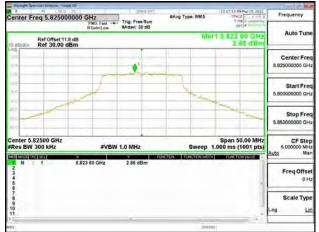




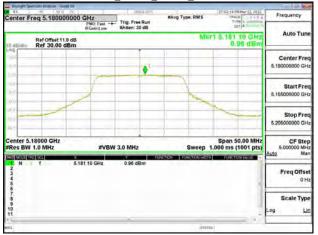
802.11a 20MHz Chain1 5785MHz



802.11a_20MHz_Chain1_5825MHz



802.11n_20MHz_Chain0_5180MHz



802.11n 20MHz Chain0 5220MHz



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

開かっ方方式のサイレ報告の未識到規構に実施的実見 「回時可能能的業業業」のあったの目前の「シーマーのの目前で、「シーマーのの目後後、 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnifi-cation 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.

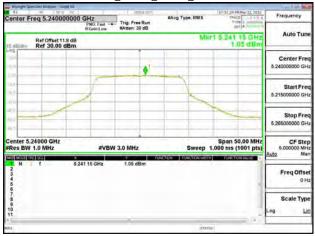
SGS Taiwan Ltd.	No.134,Wu Kung Road, New
台灣檢驗科技股份有限公司	t (886-2) 2299-3279

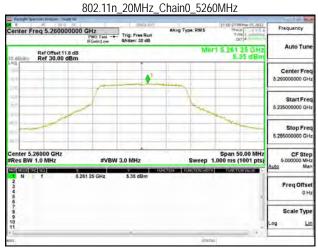
f (886-2) 2298-0488

Report No.: E2/2022/20117 Page: 98 of 271

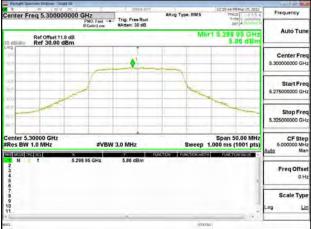


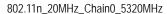
802.11n_20MHz_Chain0_5240MHz





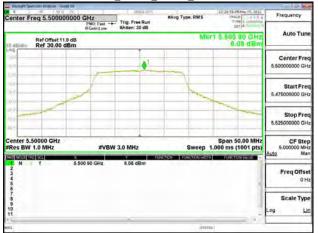
802.11n_20MHz_Chain0_5300MHz

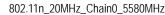


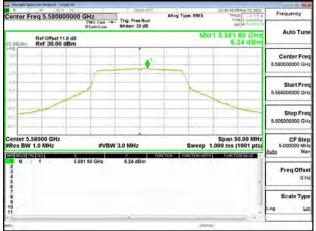




802.11n_20MHz_Chain0_5500MHz







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 <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, 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 document 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

ooo falfal Eta.	rio. 104, itu rung riouu, rioir rupor in
台灣檢驗科技股份有限公司	t (886-2) 2299-3279

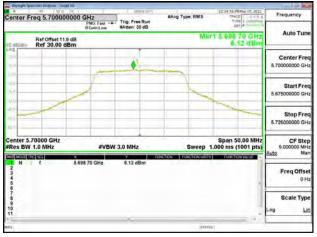
f (886-2) 2298-0488

www.sgs.com.tw



Report No.: E2/2022/20117 Page: 99 of 271

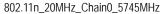
802.11n_20MHz_Chain0_5700MHz

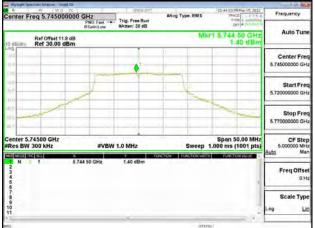


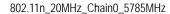
802.11n_20MHz_Chain0_5720MHz_UNII 2C Center Freq 5.720000000 GHz PNC Fast ---- Trig: Free Run Anten: 30 dB Frequency #Avg Type, RMS Auto Tu Ref Offset 11.8 dB Ref 30.00 dBm Center Fr 6 72 Start Fre 5.6 Stop Fr 5.74 CF Ster nter 5.72000 GHz Span 50.00 MHz Sweep 1.000 ms (1001 pts) #VBW 3.0 MH; Freq Offs 01 Scale Typ

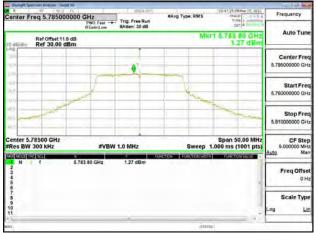
802.11n 20MHz Chain0 5720MHz UNII 3



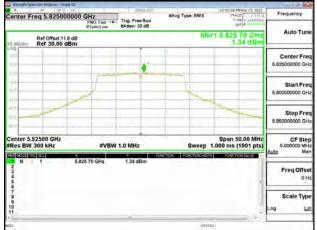








802.11n 20MHz Chain0 5825MHz



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

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions 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.

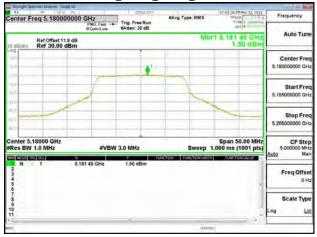
SGS Taiwan Ltd.	No.134,Wu Kung Road, New
台灣檢驗科技股份有限公司	t (886-2) 2299-3279

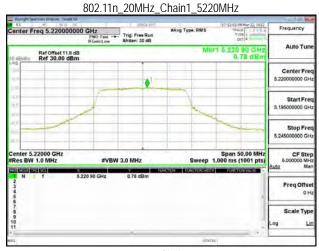
f (886-2) 2298-0488

Report No.: E2/2022/20117 Page: 100 of 271

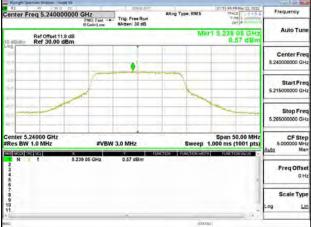


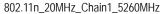
802.11n_20MHz_Chain1_5180MHz

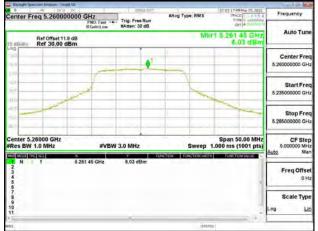




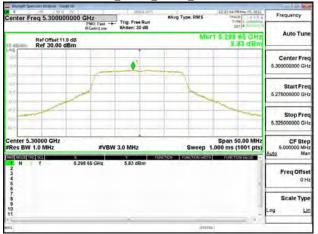
802.11n 20MHz Chain1 5240MHz

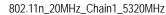


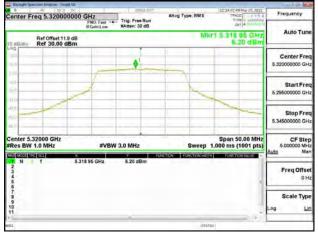




802.11n_20MHz_Chain1_5300MHz







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

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions 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.

人端从队对并现入于现入了	L
台灣檢驗科技股份有限公司	L

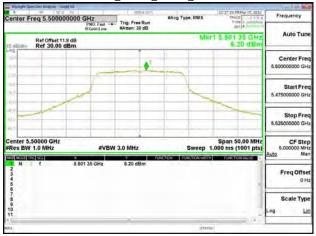
SGS Taiwan Ltd.

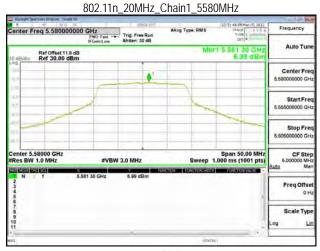
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488

Report No.: E2/2022/20117 Page: 101 of 271

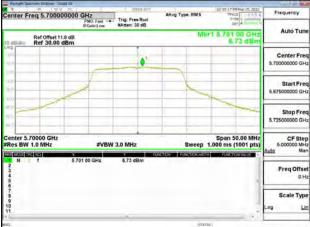


802.11n_20MHz_Chain1_5500MHz

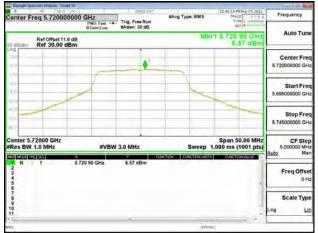




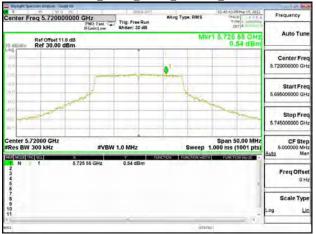
802.11n_20MHz_Chain1_5700MHz



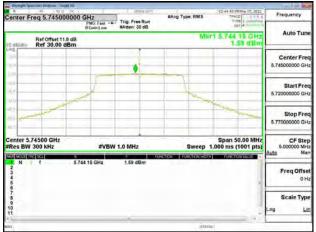




802.11n_20MHz_Chain1_5720MHz_UNII 3



802.11n_20MHz_Chain1_5745MHz



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

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document document 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.

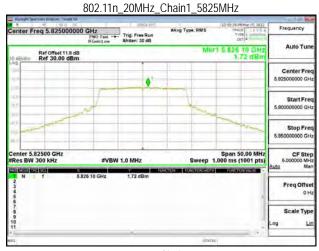
SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei	Industrial Park, Wuku District, New Taipe	ei City, Taiwan/新北市五股區新北產業園區五工路 134 號
台灣檢驗科技股份有限公司	t (886-2) 2299-3279	f (886-2) 2298-0488	www.sgs.com.tw

Report No.: E2/2022/20117 Page: 102 of 271

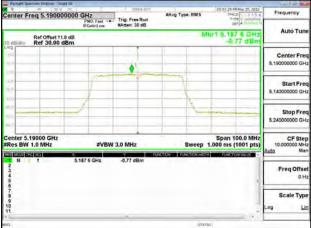


802.11n_20MHz_Chain1_5785MHz

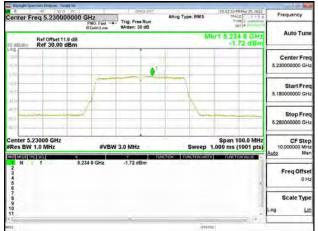




802.11n_40MHz_Chain0_5190MHz

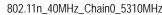


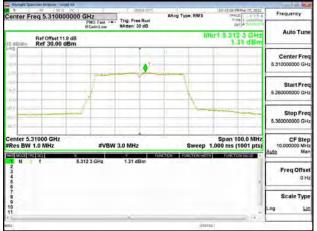




802.11n_40MHz_Chain0_5270MHz







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

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

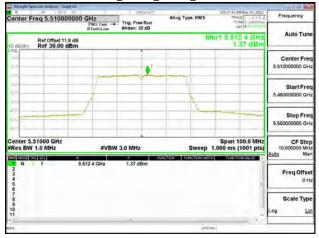
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document document 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.

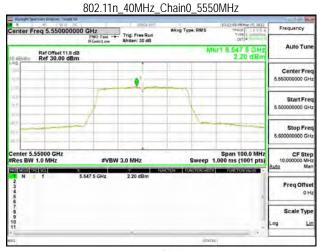
SGS Taiwan Ltd.	No.134,Wu Kung Road, New Taipei	Industrial Park, Wuku District, New Taipe	ei City, Taiwan/新北市五股區新北產業園區五工路 134 號
台灣檢驗科技股份有限公司	t (886-2) 2299-3279	f (886-2) 2298-0488	www.sgs.com.tw

Report No.: E2/2022/20117 Page: 103 of 271

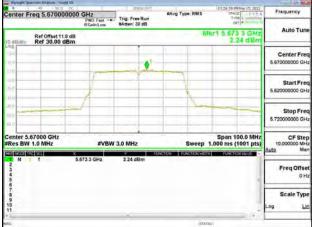


802.11n_40MHz_Chain0_5510MHz

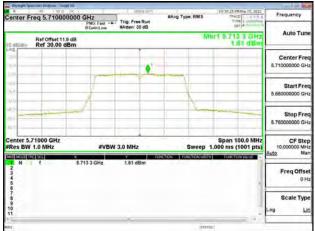




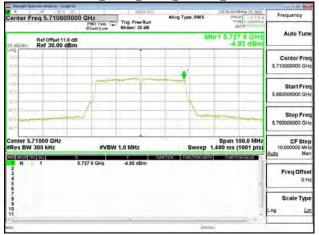
802.11n_40MHz_Chain0_5670MHz



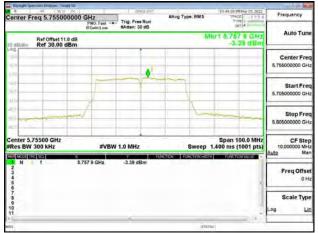




802.11n_40MHz_Chain0_5710MHz_UNII 3



802.11n_40MHz_Chain0_5755MHz



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

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document document 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 Taipe	ei 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