

**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, ISSED 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。

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.

## 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.

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 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 |

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 1 GENERAL INFORMATION

### 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<br>(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 |
| Transition Rate: | 802.11 a: 6 - 54 Mbps                 |
|                  | 802.11 n_20MHz: 6.5 - 144.4 Mbps      |
|                  | 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    |

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

### 1.3 Antenna Designation

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

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 1.4 FCC

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

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 1.5 ISED

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

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 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 Designation number | IC CAB identifier |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------|------------------------|-------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702)                                                                                                                        | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1          | TW0027                 | TW3702            |
|                                                                                                                                                                              |                                                                                           | SAC 3          |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conduction 1   |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 1    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 2    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 3    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 4    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 5    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 6    |                        |                   |
|                                                                                                                                                                              | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333                            | Conduction C   | TW0028                 |                   |
|                                                                                                                                                                              |                                                                                           | SAC C          |                        |                   |
|                                                                                                                                                                              |                                                                                           | SAC D          |                        |                   |
|                                                                                                                                                                              |                                                                                           | SAC G          |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted A    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted B    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted C    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted D    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted E    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted F    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted G    |                        |                   |
| <b>Note:</b> 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 documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

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 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 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。

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

## 2.4 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:

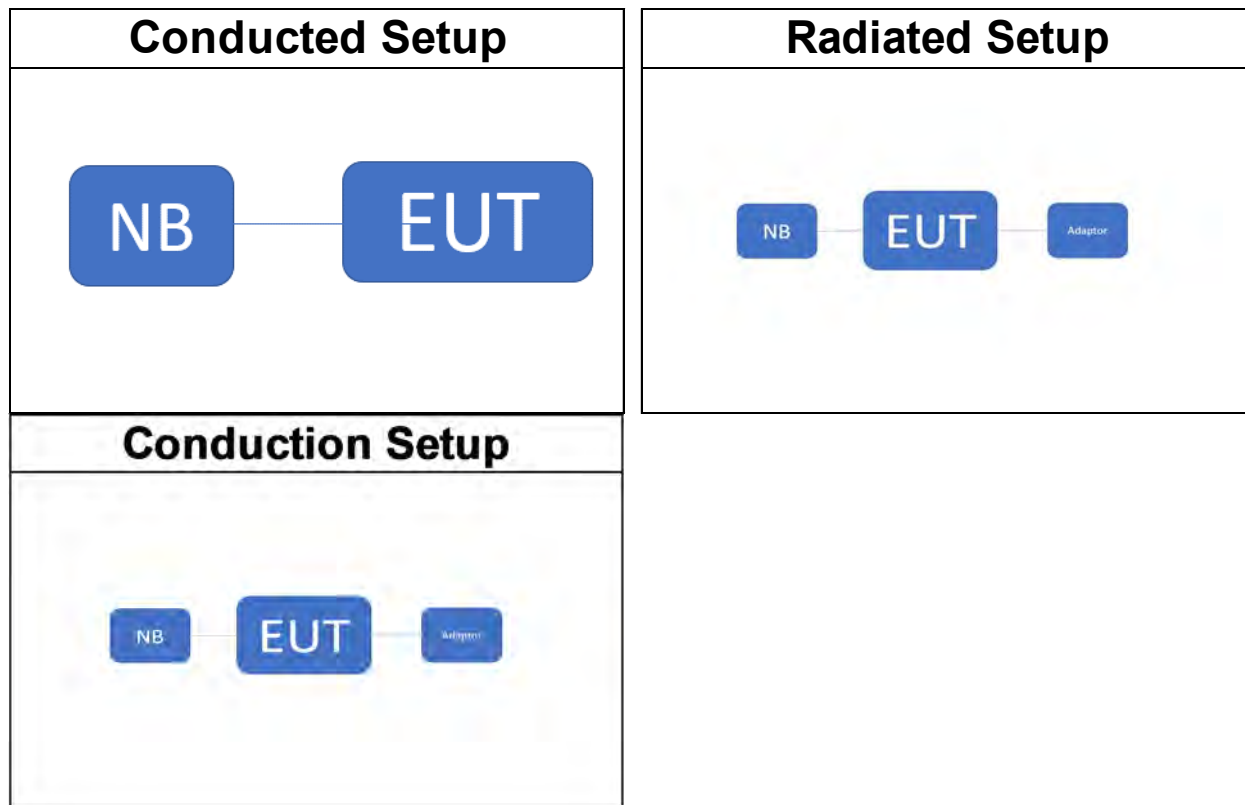
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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。

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

## 2.5 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      |
| Radiated Emission Test 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 Conducted Emission Test Site: Conduction 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.

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

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

### 3 SUMMARY OF TEST RESULT

| 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<br>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<br>§15.209<br>§15.407(b) | RSS-247 §6.2.1~ 4 (2)            | Undesirable Radiated Emissions                 | Compliant |
| §15.407(c)                       | RSS-247 §6.4                     | Transmission in case of Absence of Information | Compliant |
| §15.203                          | N/A                              | Antenna Requirement                            | Compliant |

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

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

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

## 4 DESCRIPTION OF TEST MODES

### 4.1 Operating Frequencies

#### Operated band in 5150 MHz ~5250 MHz:

| 20 M |            | 40 M |            | 80 M |            |
|------|------------|------|------------|------|------------|
| CH   | Freq (MHz) | CH   | Freq (MHz) | CH   | Freq (MHz) |
| 36   | 5180       | 38   | 5190       | 42   | 5210       |
| 40   | 5200       | 46   | 5230       |      |            |
| 44   | 5220       |      |            |      |            |
| 48   | 5240       |      |            |      |            |

#### Operated band in 5250 MHz ~5350 MHz:

| 20 M |            | 40 M |            | 80 M |            |
|------|------------|------|------------|------|------------|
| CH   | Freq (MHz) | CH   | Freq (MHz) | CH   | Freq (MHz) |
| 52   | 5260       | 54   | 5270       | 58   | 5290       |
| 56   | 5280       | 62   | 5310       |      |            |
| 60   | 5300       |      |            |      |            |
| 64   | 5320       |      |            |      |            |

#### Operated band in 5470 MHz ~5725 MHz:

| 20 M |            | 40 M |            | 80 M |            |
|------|------------|------|------------|------|------------|
| CH   | Freq (MHz) | CH   | Freq (MHz) | CH   | Freq (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       |      |            |      |            |
| 136  | 5680       |      |            |      |            |
| 140  | 5700       |      |            |      |            |
| 144  | 5720       |      |            |      |            |

#### Operated band in 5725 MHz ~5850 MHz:

| 20 M |            | 40 M |            | 80 M |            |
|------|------------|------|------------|------|------------|
| CH   | Freq (MHz) | CH   | Freq (MHz) | CH   | Freq (MHz) |
| 149  | 5745       | 151  | 5755       | 155  | 5775       |
| 153  | 5765       | 159  | 5795       |      |            |
| 157  | 5785       |      |            |      |            |
| 161  | 5805       |      |            |      |            |
| 165  | 5825       |      |            |      |            |

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

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

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

## 4.2 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 |           | Transmission Chain |     |   |     |  |     |  |     | Single Transmission Spatial |      | Multiple Transmission Spatial |      |
|------------|-----------|--------------------|-----|---|-----|--|-----|--|-----|-----------------------------|------|-------------------------------|------|
| v          | 802.11 a  | v                  | Ch0 | v | Ch1 |  | Ch2 |  | Ch3 | v                           | 1TX  |                               | 2TX  |
| v          | 802.11 n  | v                  | Ch0 | v | Ch1 |  | Ch2 |  | Ch3 | v                           | SISO | v                             | MIMO |
| v          | 802.11 ac | v                  | Ch0 | v | Ch1 |  | Ch2 |  | Ch3 | v                           | SISO | v                             | 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 BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a                              | 5180~5240            | 36 to 48          | 44             | OFDM       | 6                | ch0          |
|                                      | 5260~5320            | 52 to 64          | 60             |            |                  |              |
|                                      | 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。

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.

| RADIATED EMISSION TEST (ABOVE 1 GHz) |                      |                   |                 |            |                  |              |
|--------------------------------------|----------------------|-------------------|-----------------|------------|------------------|--------------|
| MODE                                 | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL  | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a                              | 5180~5240            | 36 to 48          | 36,44,48        | OFDM       | 6                | ch0          |
|                                      | 5260~5320            | 52 to 64          | 52,60,64        |            |                  |              |
|                                      | 5500~5720            | 100 to 144        | 100,116,140,144 |            |                  |              |
|                                      | 5745~5825            | 149 to 165        | 149,157,165     |            |                  |              |
| 802.11n_HT20                         | 5180~5240            | 36 to 48          | 36,44,48        | OFDM       | HT8              | MIMO         |
|                                      | 5260~5320            | 52 to 64          | 52,60,64        |            |                  |              |
|                                      | 5500~5720            | 100 to 144        | 100,116,140,144 |            |                  |              |
|                                      | 5745~5825            | 149 to 165        | 149,157,165     |            |                  |              |
| 802.11n_HT40                         | 5190~5230            | 38 to 46          | 38,46           | OFDM       | HT8              | MIMO         |
|                                      | 5270~5310            | 54 to 62          | 54,62           |            |                  |              |
|                                      | 5510~5670            | 102 to 142        | 102,110,134,142 |            |                  |              |
|                                      | 5755~5795            | 151 to 159        | 151,159         |            |                  |              |
| 802.11ac_VHT80                       | 5210                 | 42                | 42              | OFDM       | VHT0             | MIMO         |
|                                      | 5290                 | 58                | 58              |            |                  |              |
|                                      | 5530~5610            | 106 to 138        | 106,122,138     |            |                  |              |
|                                      | 5775                 | 155               | 155             |            |                  |              |

| CONDUCTED TEST |                      |                   |                 |            |                  |              |
|----------------|----------------------|-------------------|-----------------|------------|------------------|--------------|
| MODE           | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL  | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a        | 5180~5240            | 36 to 48          | 36,44,48        | OFDM       | 6                | ch0          |
|                | 5260~5320            | 52 to 64          | 52,60,64        |            |                  |              |
|                | 5500~5720            | 100 to 144        | 100,116,140,144 |            |                  |              |
|                | 5745~5825            | 149 to 165        | 149,157,165     |            |                  |              |
| 802.11n_HT20   | 5180~5240            | 36 to 48          | 36,44,48        | OFDM       | HT8              | MIMO         |
|                | 5260~5320            | 52 to 64          | 52,60,64        |            |                  |              |
|                | 5500~5720            | 100 to 144        | 100,116,140,144 |            |                  |              |
|                | 5745~5825            | 149 to 165        | 149,157,165     |            |                  |              |
| 802.11n_HT40   | 5190~5230            | 38 to 46          | 38,46           | OFDM       | HT8              | MIMO         |
|                | 5270~5310            | 54 to 62          | 54,62           |            |                  |              |
|                | 5510~5670            | 102 to 142        | 102,110,134,142 |            |                  |              |
|                | 5755~5795            | 151 to 159        | 151,159         |            |                  |              |
| 802.11ac_VHT80 | 5210                 | 42                | 42              | OFDM       | VHT0             | MIMO         |
|                | 5290                 | 58                | 58              |            |                  |              |
|                | 5530~5610            | 106 to 138        | 106,122,138     |            |                  |              |
|                | 5775                 | 155               | 155             |            |                  |              |

### 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.

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

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

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

## 5 MEASUREMENT UNCERTAINTY

| Test Items                                 | Uncertainty |
|--------------------------------------------|-------------|
| AC Power Line Conducted Emission           | +/- 2.34 dB |
| Output Power measurement                   | +/- 1 dB    |
| Emission Bandwidth                         | +/- 1.53 Hz |
| Undesignable radiated emission measurement | +/- 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 |     |         |                 |
|----------------------------------------------------|-----|---------|-----------------|
| Polarization: Vertical                             | +/- | 2.57 dB | 9kHz~30MHz      |
|                                                    | +/- | 4.85 dB | 30MHz - 1000MHz |
|                                                    | +/- | 4.45 dB | 1GHz - 18GHz    |
|                                                    | +/- | 4.24 dB | 18GHz - 40GHz   |
| Polarization: Horizontal                           | +/- | 2.57 dB | 9kHz~30MHz      |
|                                                    | +/- | 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.

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

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

## 6 MEASUREMENT EQUIPMENT USED

### 6.1 Emission from AC power line

| AC Power-Line Conducted Emission Test Site: Conduction C |                                    |                   |                             |            |            |
|----------------------------------------------------------|------------------------------------|-------------------|-----------------------------|------------|------------|
| EQUIPMENT TYPE                                           | MFR                                | MODEL NUMBER      | SERIAL NUMBER               | LAST CAL.  | CAL DUE.   |
| LISN                                                     | SCHWARZBECK<br>Mess-<br>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-<br>250 | RF-HY-CAB-<br>250-01        | 03/27/2021 | 03/26/2022 |
| Pulse Limiter                                            | EC Lab                             | VTSD 9561F-<br>N  | 485                         | 03/27/2021 | 03/26/2022 |
| Test Software                                            | audix                              | e3                | E3 20923 SGS<br>Ver.9 ( C ) | N.C.R      | N.C.R      |

### 6.2 Conducted 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<br>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                                  | PASTERNAK  | PE8210                 | RF151         | 11/18/2021 | 11/17/2022 |

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

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

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

### 6.3 Radiated Measurement

| 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.

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

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

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

## 7 CONDUCTED EMISSION TEST

### 7.1 Standard Applicable

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

| Frequency range<br>MHz | Limits<br>(dBuV) |          |
|------------------------|------------------|----------|
|                        | 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       |

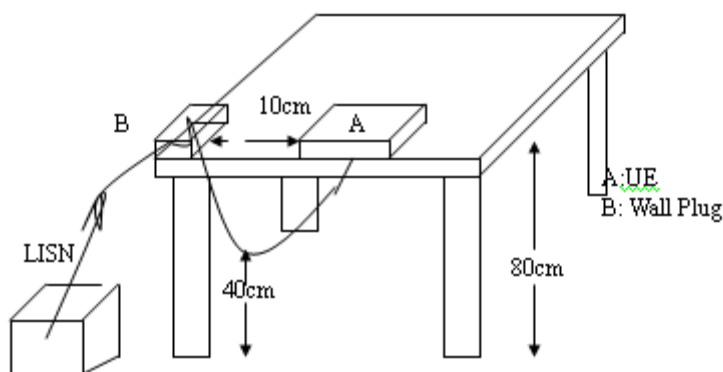
Note

- 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.
3. 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.
3. 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。

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

## 7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that closet to the limit.

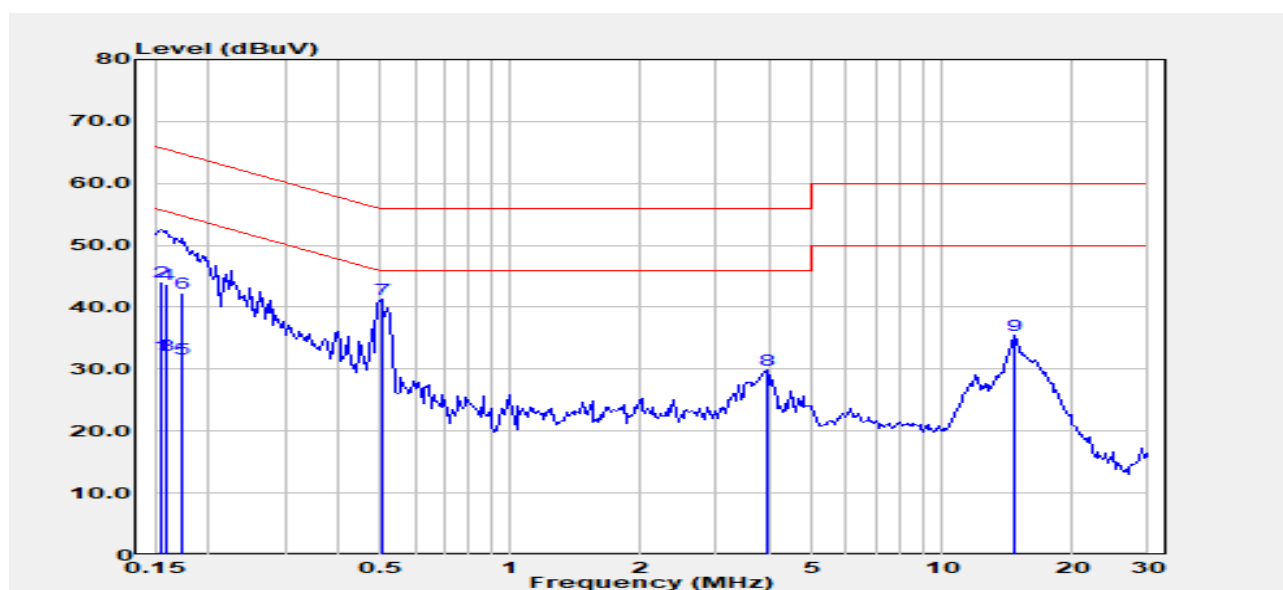
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 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



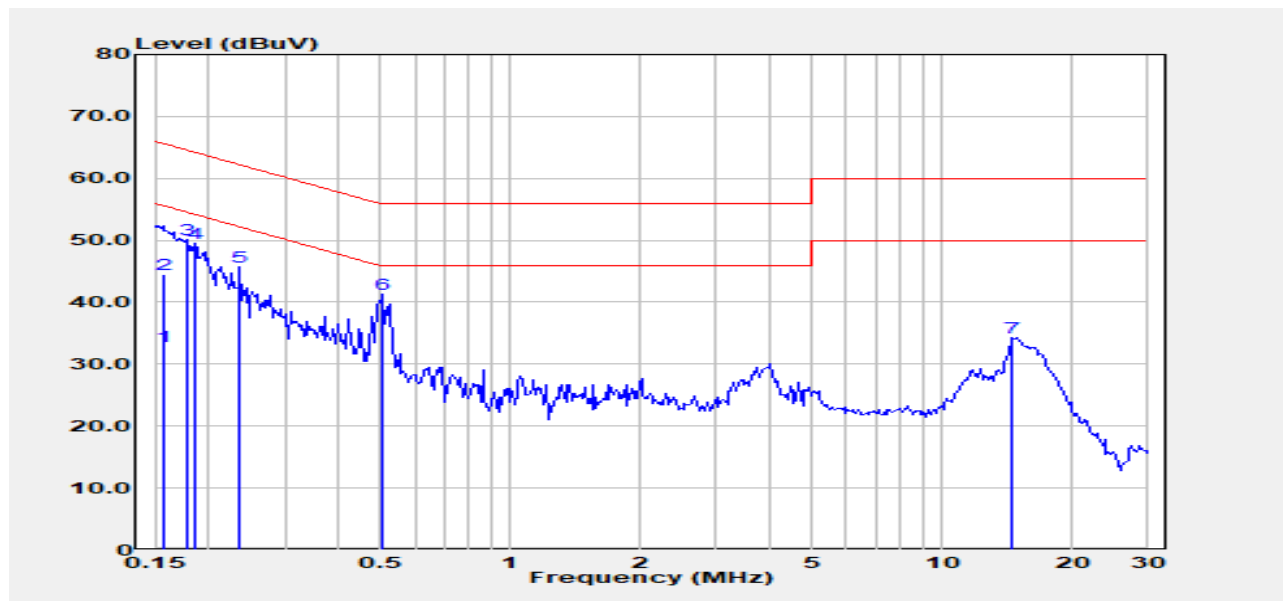
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV | Limit<br>dBμV | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|----------------------|---------------|--------------|
| 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.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

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.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V | Limit<br>dB $\mu$ V | Margin<br>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       |

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

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

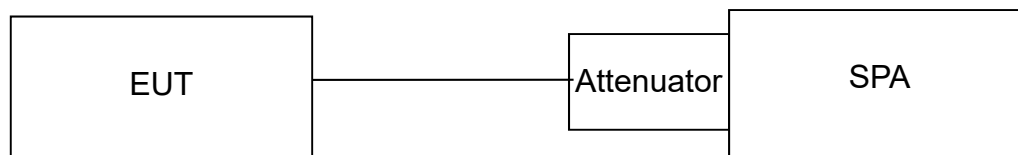
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>.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

## 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.
6. 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 <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.

Sweep=auto.

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

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 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\_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          |

802.11a\_Ch1

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-------------|--------------|-----------------|
| 5745        | 16.41        | 12.150          |
| 5785        | 16.39        | 12.150          |
| 5825        | 16.35        | 12.140          |

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 <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.

802.11n\_HT20\_Ch0

| Freq.<br>(MHz) | 26dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|---------------------|--------------------|
| 5180           | 21.25               | 13.270             |
| 5220           | 21.55               | 13.330             |
| 5240           | 21.74               | 13.370             |
| <b>5260</b>    | 22.55               | 13.530             |
| 5300           | 22.76               | 13.570             |
| 5320           | 22.79               | 13.580             |
| 5500           | 21.66               | 13.360             |
| <b>5580</b>    | 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              |

802.11n\_HT20\_Ch1

| Freq.<br>(MHz) | 26dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|---------------------|--------------------|
| 5180           | 21.66               | 13.360             |
| 5220           | 21.73               | 13.370             |
| 5240           | 23.14               | 13.640             |
| <b>5260</b>    | 23.52               | 13.710             |
| 5300           | 22.85               | 13.590             |
| 5320           | 23.12               | 13.640             |
| 5500           | 21.95               | 13.410             |
| <b>5580</b>    | 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\_Ch0

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

802.11n\_HT20\_Ch1

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

802.11n\_HT20\_Ch0

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

802.11n\_HT20\_Ch1

| Freq.<br>(MHz) | Measured<br>Freq.<br>(MHz) | Limit<br>(MHz) |
|----------------|----------------------------|----------------|
| 5240           | 5248.89                    | < 5250         |
| 5745           | 5736.17                    | > 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 <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.

802.11n\_HT40\_Ch0

| Freq.<br>(MHz) | 26dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|---------------------|--------------------|
| 5190           | 40.41               | 16.060             |
| 5230           | 40.63               | 16.090             |
| 5270           | 40.14               | 16.040             |
| <b>5310</b>    | 40.84               | 16.110             |
| 5510           | 40.37               | 16.060             |
| 5550           | <b>41.02</b>        | 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\_Ch1

| Freq.<br>(MHz) | 26dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|---------------------|--------------------|
| 5190           | 40.67               | 16.090             |
| 5230           | 41.03               | 16.130             |
| 5270           | 40.40               | 16.060             |
| <b>5310</b>    | 40.91               | 16.120             |
| 5510           | 40.69               | 16.090             |
| 5550           | <b>40.67</b>        | 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\_Ch0

| Freq.<br>(MHz) | 6dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|--------------------|--------------------|
| 5755           | 35.13              | 15.460             |
| 5795           | 36.34              | 15.600             |

802.11n\_HT40\_Ch1

| Freq.<br>(MHz) | 6dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|--------------------|--------------------|
| 5755           | 35.67              | 15.520             |
| 5795           | 35.18              | 15.460             |

802.11n\_HT40\_Ch0

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

802.11n\_HT40\_Ch1

| Freq.<br>(MHz) | Measured<br>Freq.<br>(MHz) | Limit<br>(MHz) |
|----------------|----------------------------|----------------|
| 5230           | 5248.11                    | < 5250         |
| 5755           | 5736.98                    | > 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 <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.

802.11ac\_VHT80\_Ch0

| Freq.<br>(MHz) | 26dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|---------------------|--------------------|
| 5210           | 82.95               | 19.190             |
| 5290           | 90.55               | 19.570             |
| <b>5530</b>    | 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\_Ch1

| Freq.<br>(MHz) | 26dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|---------------------|--------------------|
| 5210           | 81.57               | 19.120             |
| 5290           | 89.65               | 19.530             |
| <b>5530</b>    | 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\_Ch0

| Freq.<br>(MHz) | 6dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|--------------------|--------------------|
| 5775           | 76.31              | 18.830             |

802.11ac\_VHT80\_Ch1

| Freq.<br>(MHz) | 6dB<br>BW<br>(MHz) | 10 Log (B)<br>(dB) |
|----------------|--------------------|--------------------|
| 5775           | 75.59              | 18.780             |

802.11ac\_VHT80\_Ch0

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

802.11ac\_VHT80\_Ch1

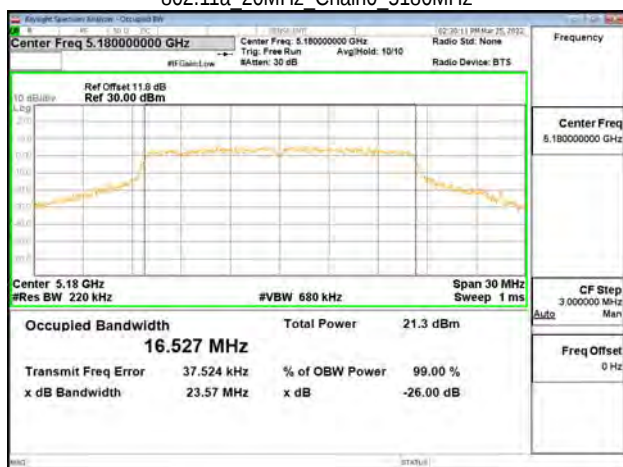
| Freq.<br>(MHz) | Measured<br>Freq.<br>(MHz) | Limit<br>(MHz) |
|----------------|----------------------------|----------------|
| 5210           | 5247.93                    | < 5250         |
| 5775           | 5737.24                    | > 5725         |

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.

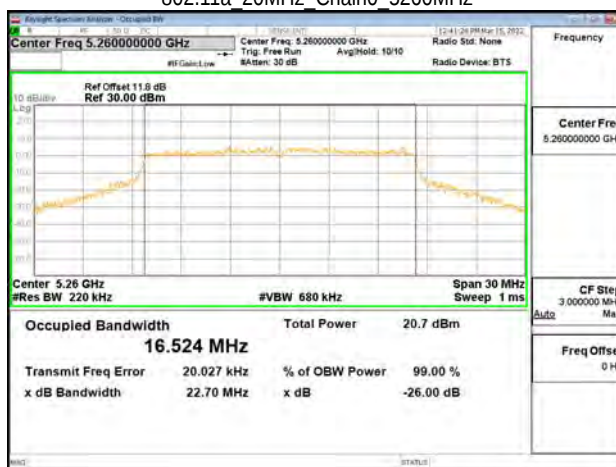
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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.

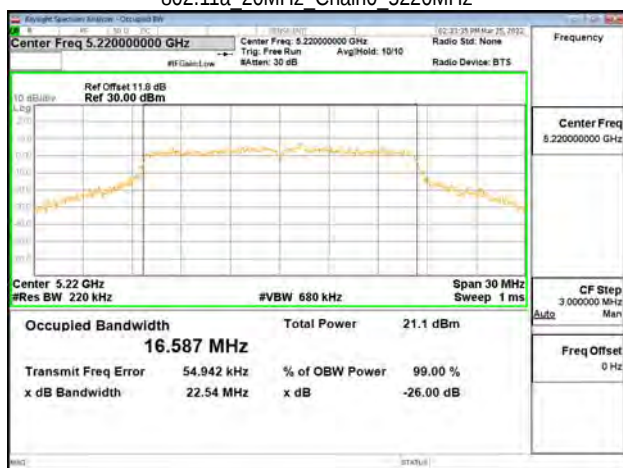
802.11a 20MHz Chain0 5180MHz



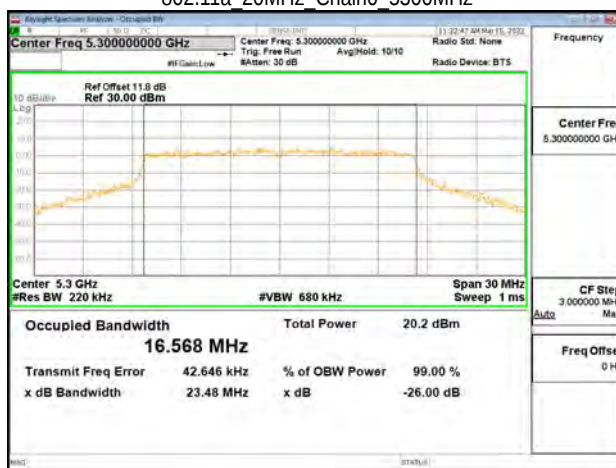
802.11a 20MHz Chain0 5260MHz



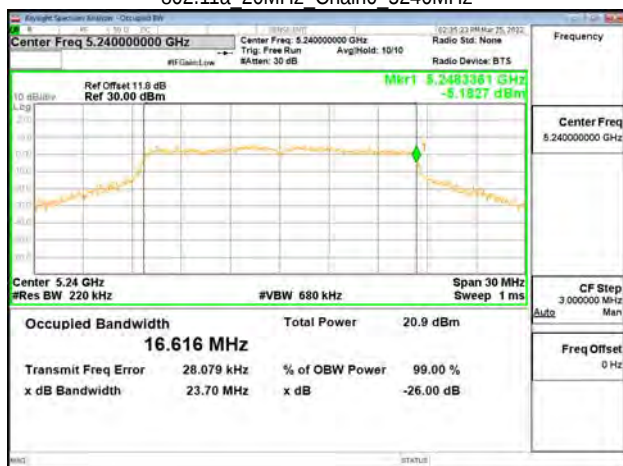
802.11a 20MHz Chain0 5220MHz



802.11a 20MHz Chain0 5300MHz



802.11a 20MHz Chain0 5240MHz



802.11a 20MHz Chain0 5320MHz

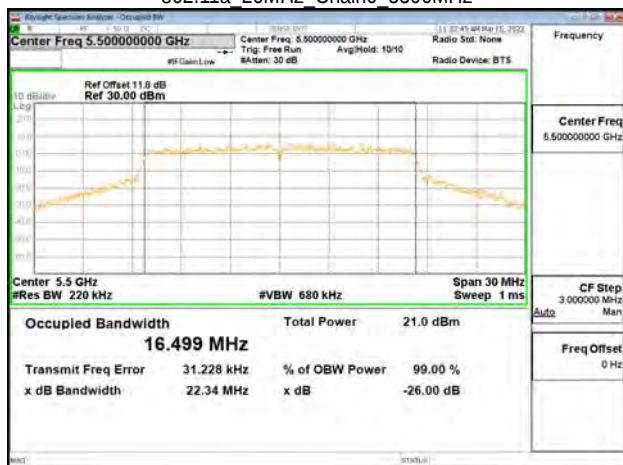


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

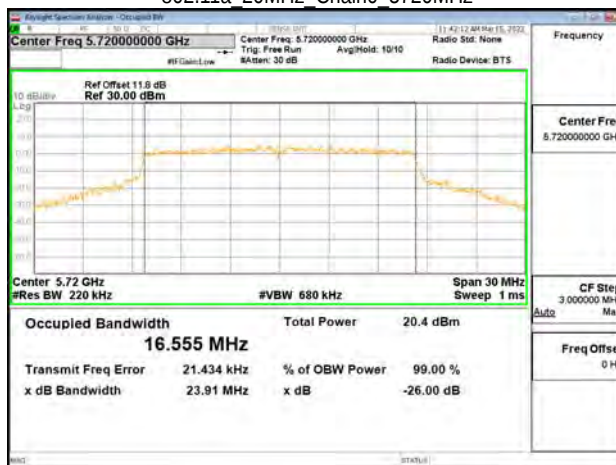
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

802.11a 20MHz Chain0 5500MHz



802.11a 20MHz Chain0 5720MHz



802.11a 20MHz Chain0 5580MHz



802.11a 20MHz Chain0 5745MHz



802.11a 20MHz Chain0 5700MHz



802.11a 20MHz Chain0 5785MHz

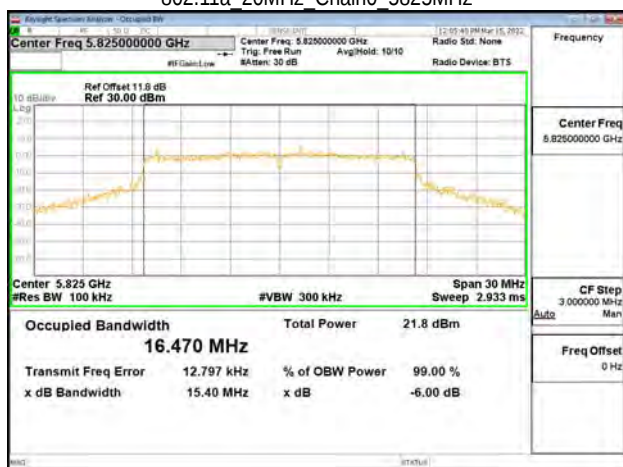


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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。

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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

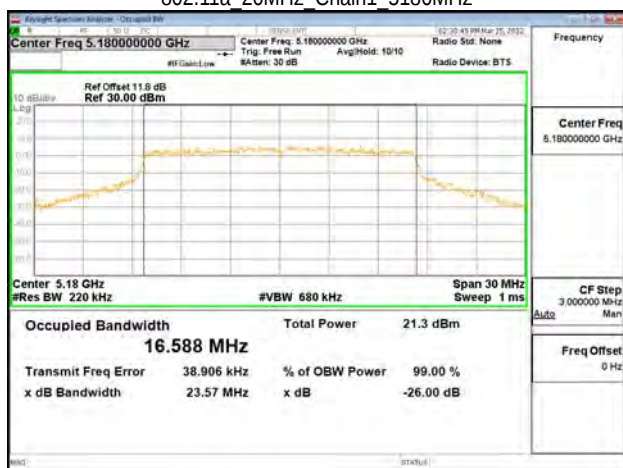
802.11a 20MHz Chain0 5825MHz



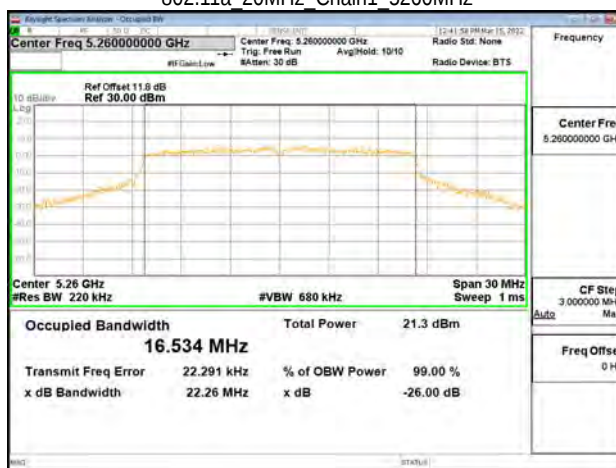
802.11a 20MHz Chain1 5240MHz



802.11a 20MHz Chain1 5180MHz



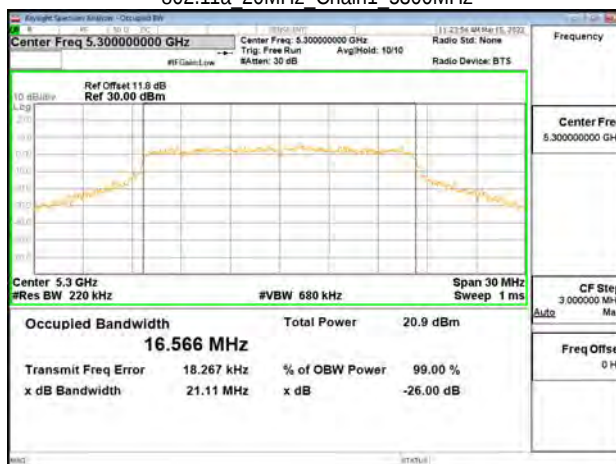
802.11a 20MHz Chain1 5260MHz



802.11a 20MHz Chain1 5220MHz



802.11a 20MHz Chain1 5300MHz

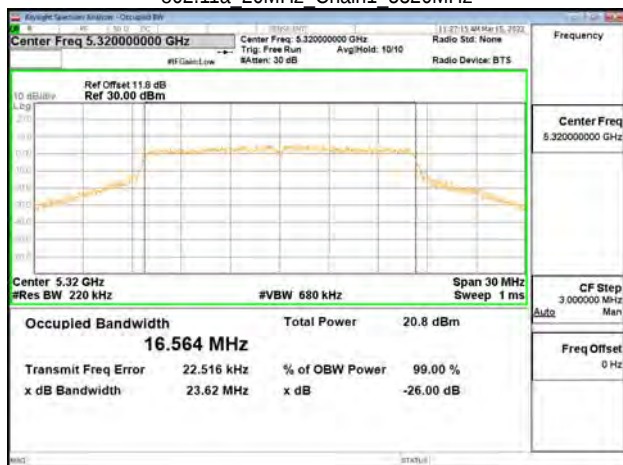


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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。

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.

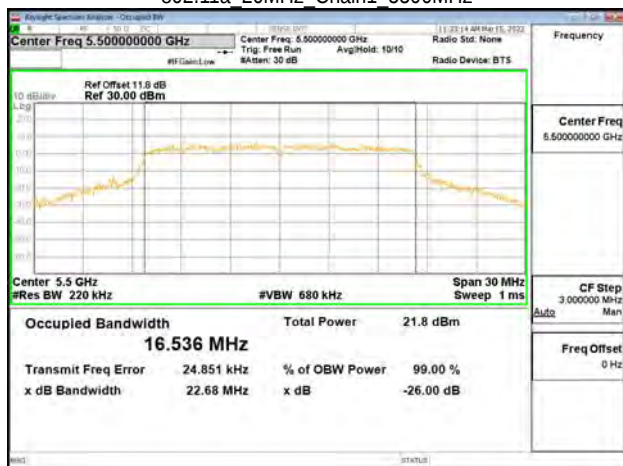
802.11a 20MHz Chain1 5320MHz



802.11a 20MHz Chain1 5700MHz



802.11a 20MHz Chain1 5500MHz



802.11a 20MHz Chain1 5720MHz



802.11a 20MHz Chain1 5580MHz



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.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

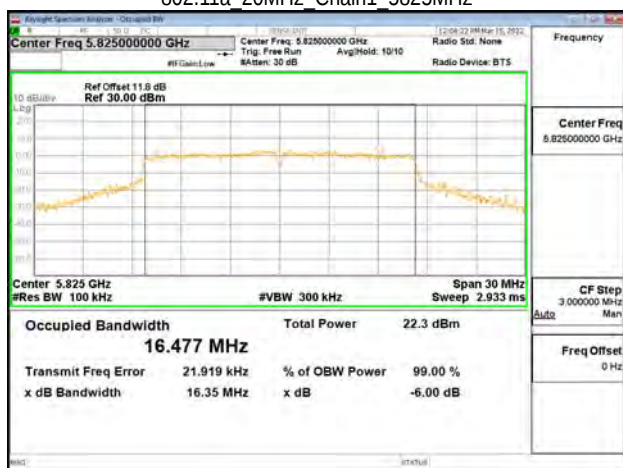
802.11a 20MHz Chain1 5785MHz



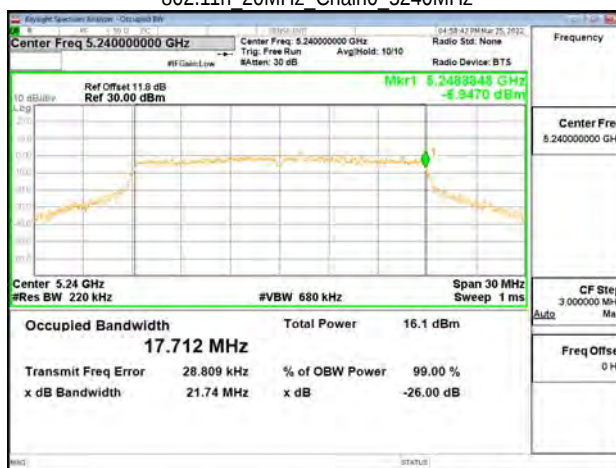
802.11n 20MHz Chain0 5220MHz



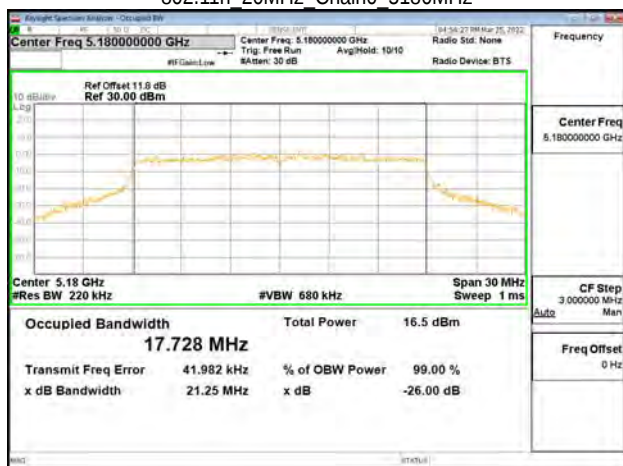
802.11a 20MHz Chain1 5825MHz



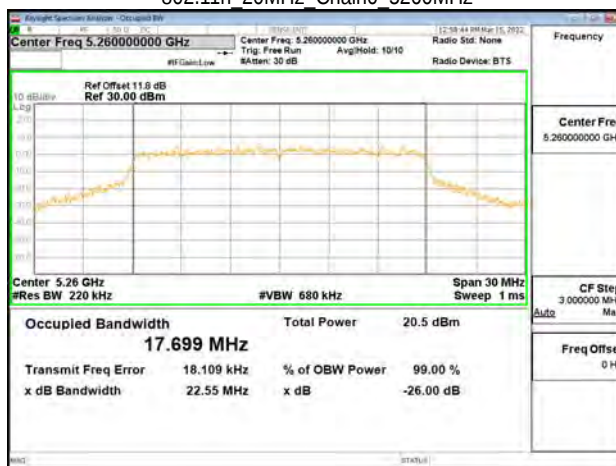
802.11n 20MHz Chain0 5240MHz



802.11n 20MHz Chain0 5180MHz



802.11n 20MHz Chain0 5260MHz

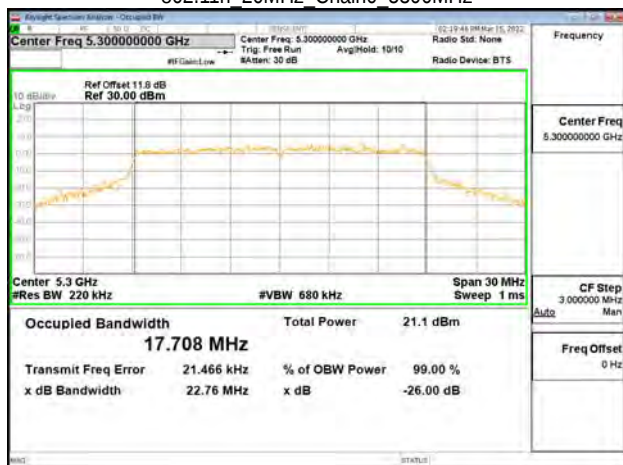


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

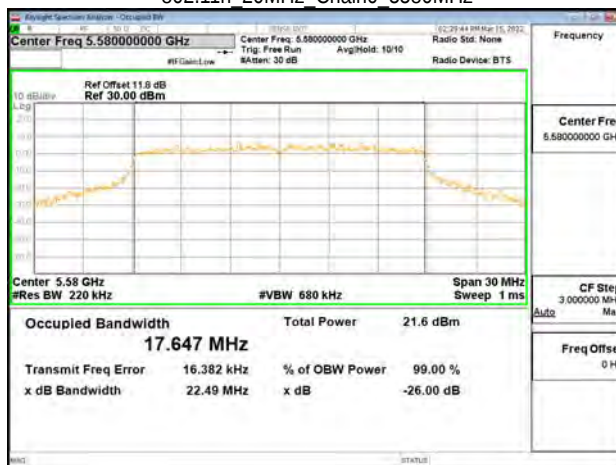
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

802.11n 20MHz Chain0 5300MHz



802.11n 20MHz Chain0 5580MHz



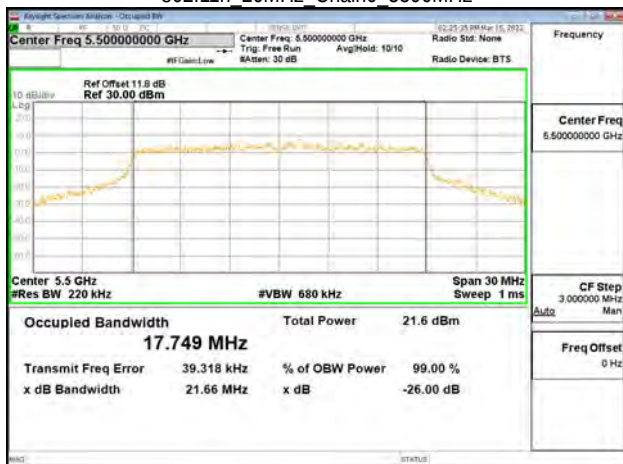
802.11n 20MHz Chain0 5320MHz



802.11n 20MHz Chain0 5700MHz



802.11n 20MHz Chain0 5500MHz



802.11n 20MHz Chain0 5720MHz

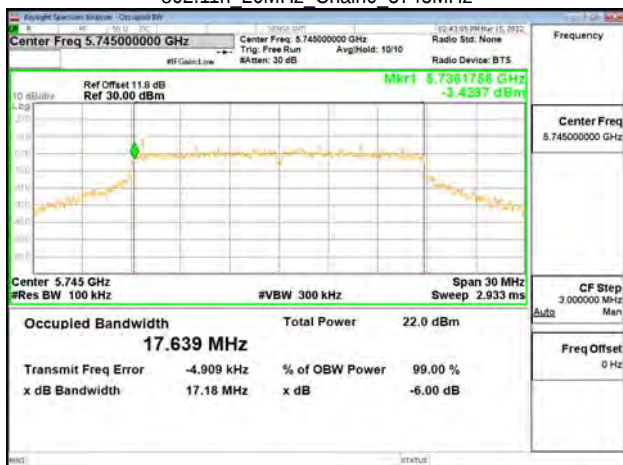


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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。

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.

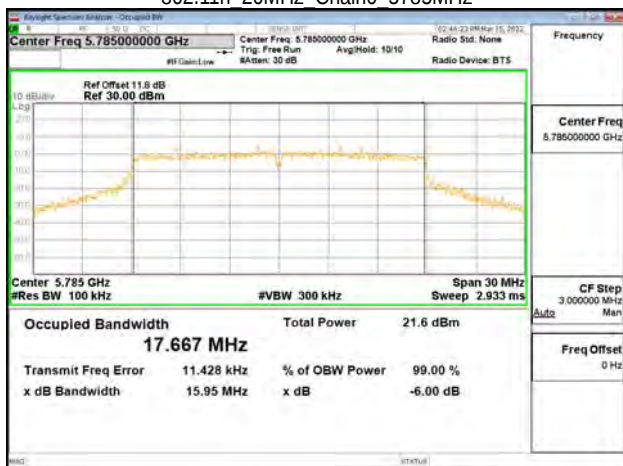
802.11n 20MHz Chain0 5745MHz



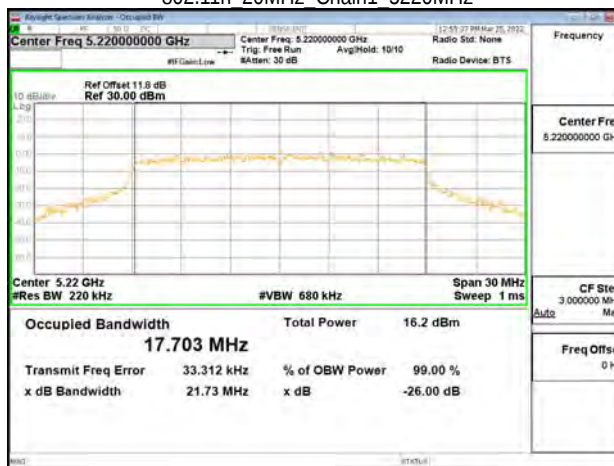
802.11n 20MHz Chain1 5180MHz



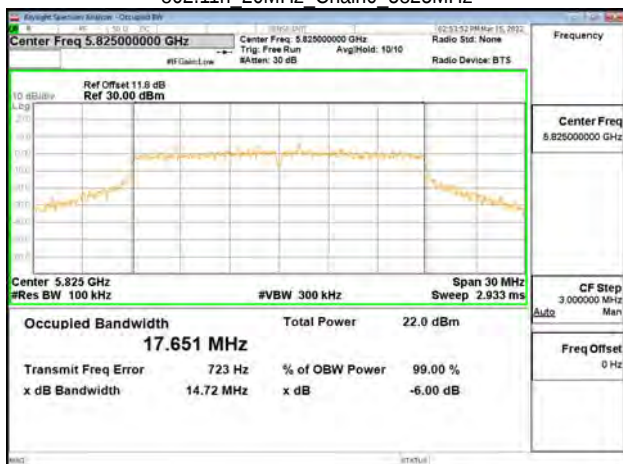
802.11n 20MHz Chain0 5785MHz



802.11n 20MHz Chain1 5220MHz



802.11n 20MHz Chain0 5825MHz



802.11n 20MHz Chain1 5240MHz

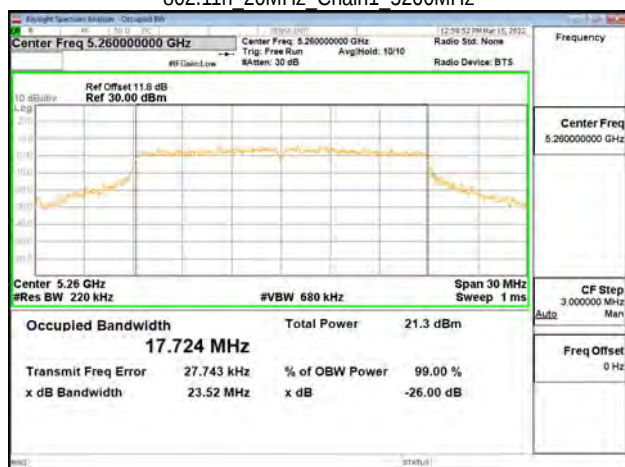


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

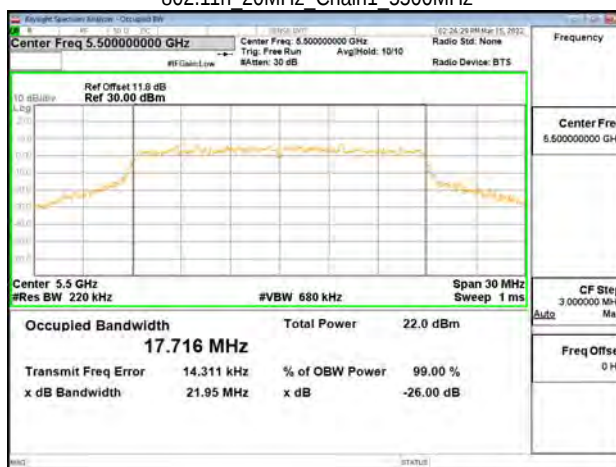
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

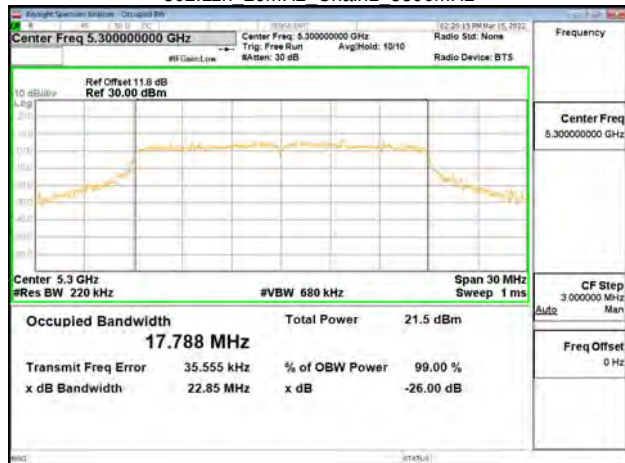
802.11n 20MHz Chain1 5260MHz



802.11n 20MHz Chain1 5500MHz



802.11n 20MHz Chain1 5300MHz



802.11n 20MHz Chain1 5580MHz



802.11n 20MHz Chain1 5320MHz



802.11n 20MHz Chain1 5700MHz

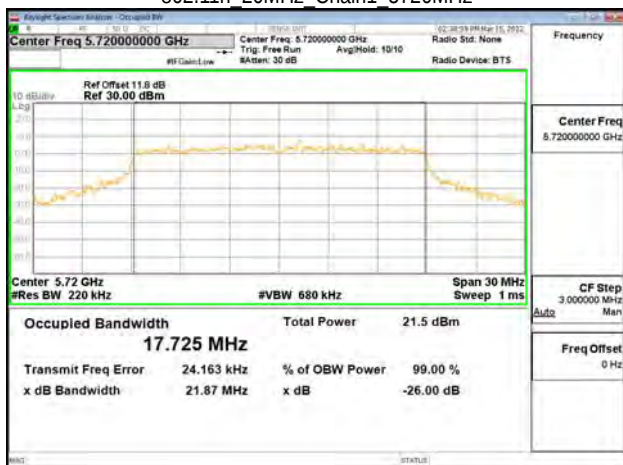


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

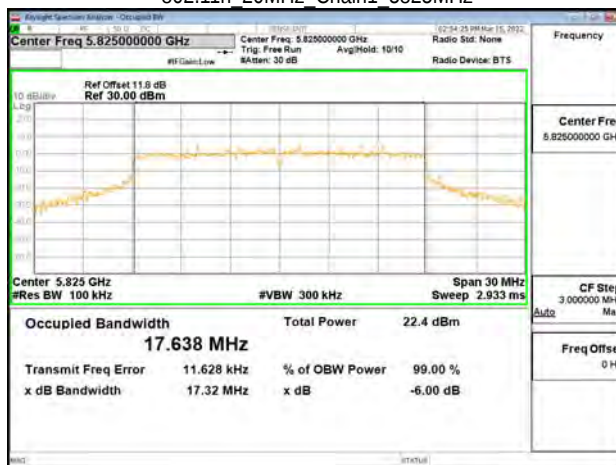
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

802.11n 20MHz Chain1 5720MHz



802.11n 20MHz Chain1 5825MHz



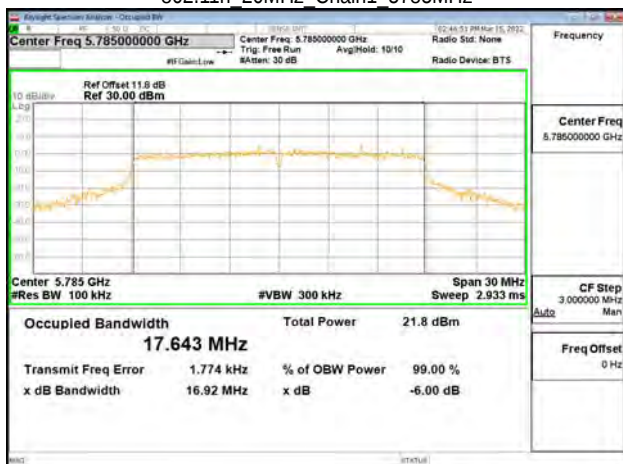
802.11n 20MHz Chain1 5745MHz



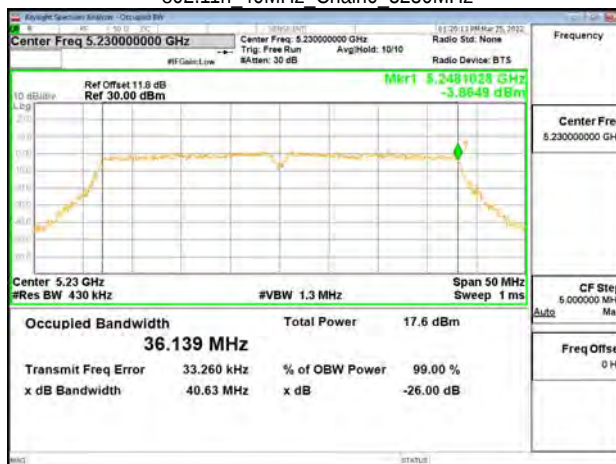
802.11n 40MHz Chain0 5190MHz



802.11n 20MHz Chain1 5785MHz



802.11n 40MHz Chain0 5230MHz

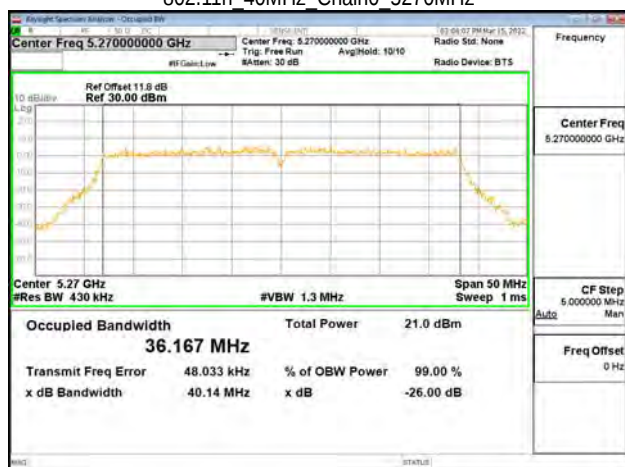


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

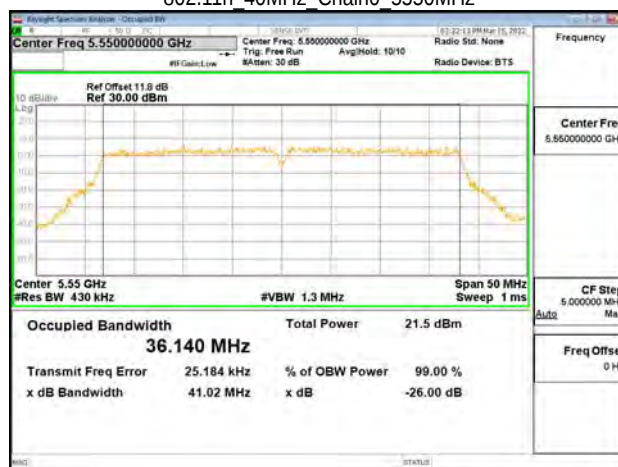
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

802.11n 40MHz Chain0 5270MHz



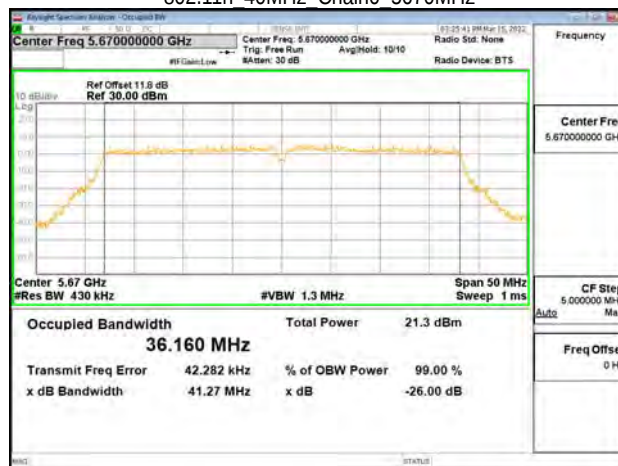
802.11n 40MHz Chain0 5550MHz



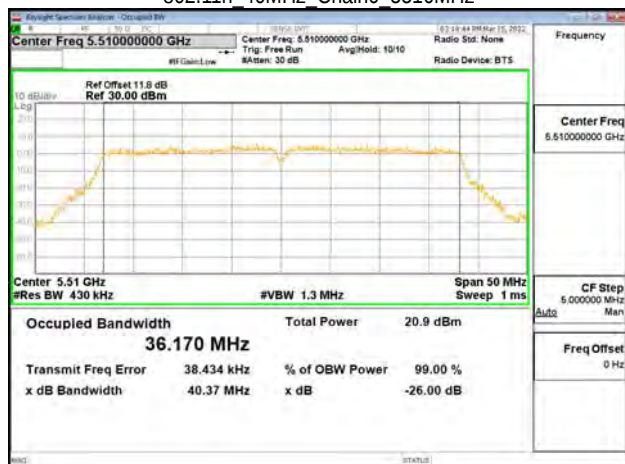
802.11n 40MHz Chain0 5310MHz



802.11n 40MHz Chain0 5670MHz



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。

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.

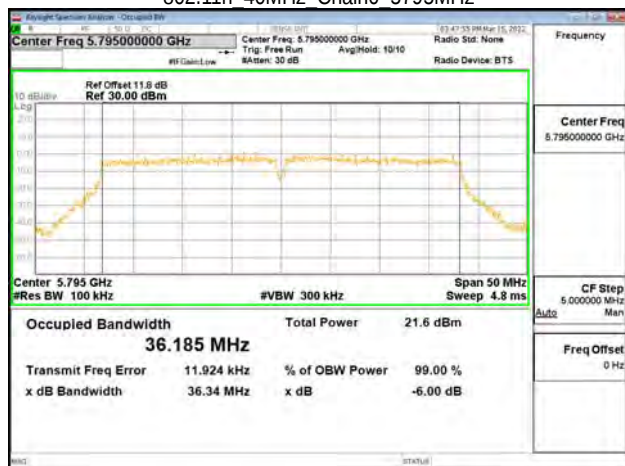
802.11n 40MHz Chain0 5755MHz



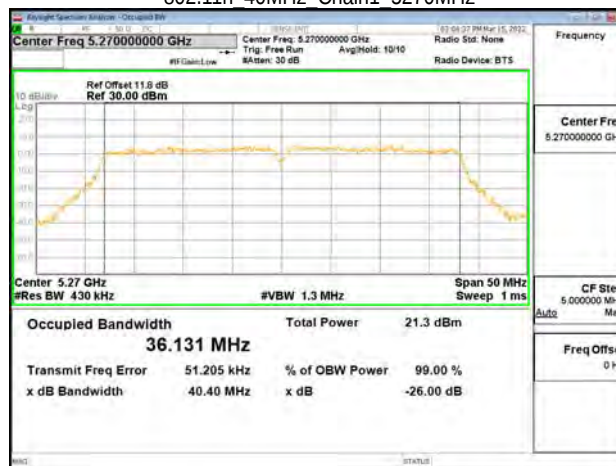
802.11n 40MHz Chain1 5230MHz



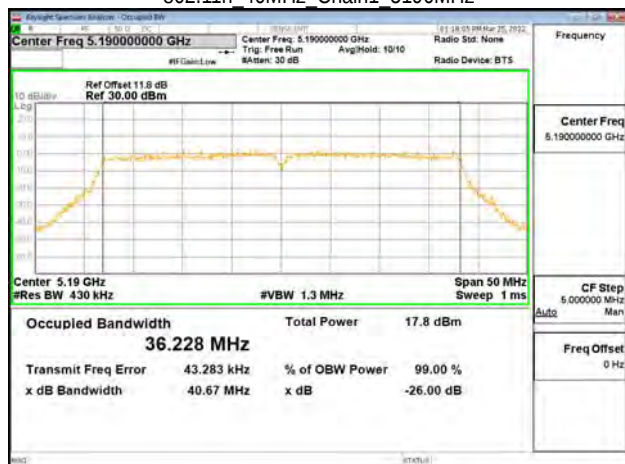
802.11n 40MHz Chain0 5795MHz



802.11n 40MHz Chain1 5270MHz



802.11n 40MHz Chain1 5190MHz



802.11n 40MHz Chain1 5310MHz

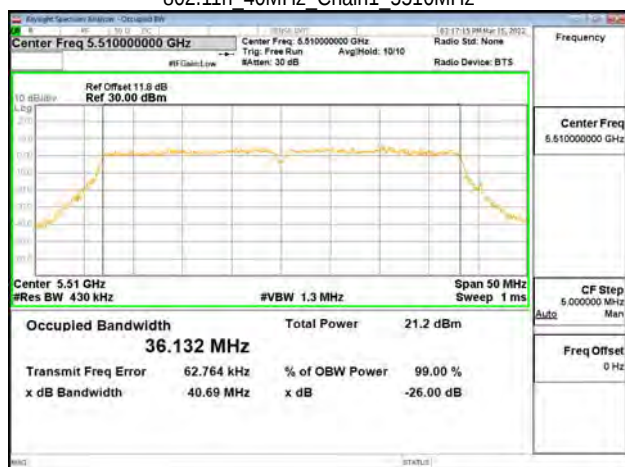


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

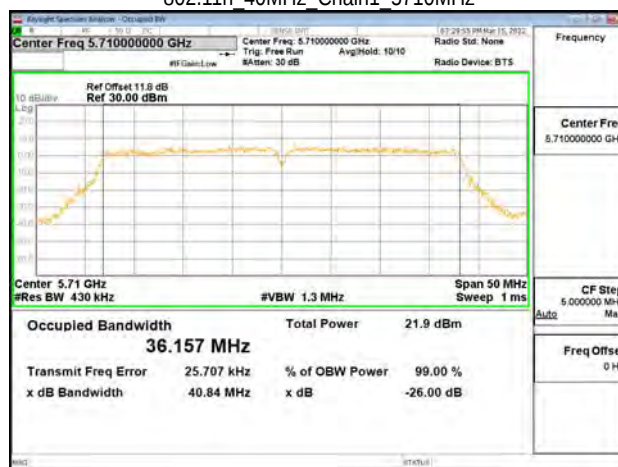
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

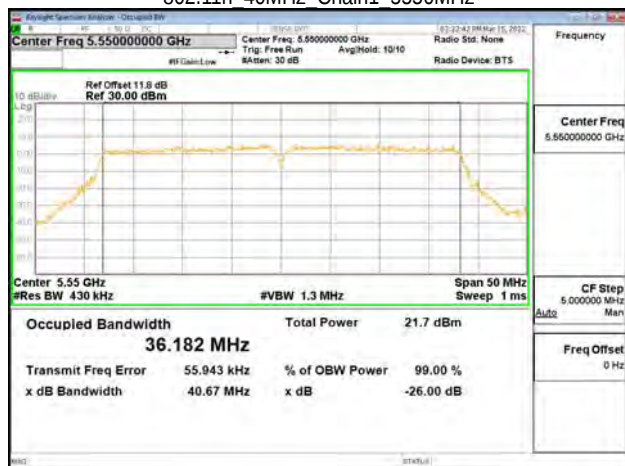
802.11n 40MHz Chain1 5510MHz



802.11n 40MHz Chain1 5710MHz



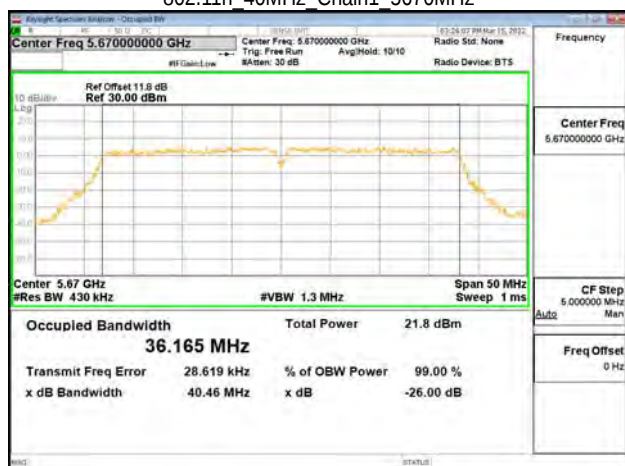
802.11n 40MHz Chain1 5550MHz



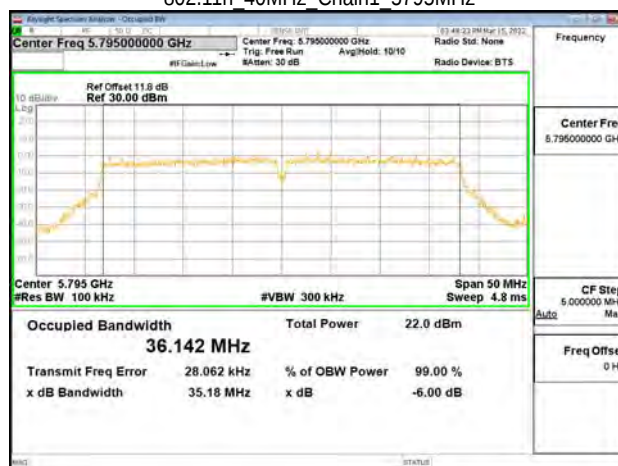
802.11n 40MHz Chain1 5755MHz



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。

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.

802.11ac 80MHz Chain0 5210MHz



802.11ac 80MHz Chain0 5610MHz



802.11ac 80MHz Chain0 5290MHz



802.11ac 80MHz Chain0 5690MHz



802.11ac 80MHz Chain0 5530MHz



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。

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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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 80MHz Chain1 5210MHz



802.11ac 80MHz Chain1 5610MHz



802.11ac 80MHz Chain1 5290MHz



802.11ac 80MHz Chain1 5690MHz



802.11ac 80MHz Chain1 5530MHz



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。

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.

## 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 <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.

## 802.11a\_Ch1

| Frequency<br>(MHz) | 99%<br>BW<br>(MHz) | 10 Log (B)<br>(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<br>(MHz) | 99%<br>BW<br>(MHz) | 6dB<br>BW<br>(MHz) |
|--------------------|--------------------|--------------------|
| 5745               | 16.594             | 16.250             |
| 5785               | 16.554             | 16.140             |
| 5825               | 16.554             | 16.300             |

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 802.11n\_HT20\_Ch0

| Frequency<br>(MHz) | 99%<br>BW<br>(MHz) | 10 Log (B)<br>(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<br>(MHz) | 99%<br>BW<br>(MHz) | 6dB<br>BW<br>(MHz) |
|--------------------|--------------------|--------------------|
| 5745               | 17.718             | 17.450             |
| 5785               | 17.695             | 17.490             |
| 5825               | 17.728             | 17.410             |

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 802.11n\_HT20\_Ch1

| Frequency<br>(MHz) | 99%<br>BW<br>(MHz) | 10 Log (B)<br>(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<br>(MHz) | 99%<br>BW<br>(MHz) | 6dB<br>BW<br>(MHz) |
|--------------------|--------------------|--------------------|
| 5745               | 17.741             | 17.430             |
| 5785               | 17.725             | 17.120             |
| 5825               | 17.752             | 17.390             |

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 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       |

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 802.11ac\_VHT80\_Ch0

| Frequency<br>(MHz) | 99%<br>BW<br>(MHz) | 10 Log (B)<br>(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<br>(MHz) | 99%<br>BW<br>(MHz) | 6dB<br>BW<br>(MHz) |
|--------------------|--------------------|--------------------|
| 5775               | 76.296             | 76.690             |

## 802.11ac\_VHT80\_Ch1

| Frequency<br>(MHz) | 99%<br>BW<br>(MHz) | 10 Log (B)<br>(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<br>(MHz) | 99%<br>BW<br>(MHz) | 6dB<br>BW<br>(MHz) |
|--------------------|--------------------|--------------------|
| 5775               | 75.970             | 76.500             |

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

802.11a 20MHz Chain0 5180MHz



802.11a 20MHz Chain0 5260MHz



802.11a 20MHz Chain0 5220MHz



802.11a 20MHz Chain0 5300MHz



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.

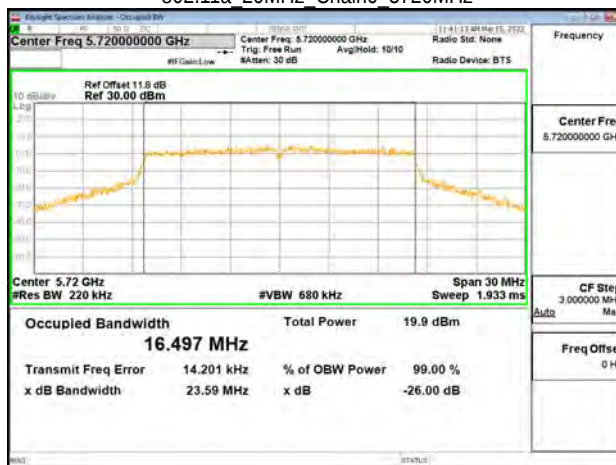
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

802.11a 20MHz Chain0 5500MHz



802.11a 20MHz Chain0 5720MHz



802.11a 20MHz Chain0 5580MHz



802.11a 20MHz Chain0 5745MHz



802.11a 20MHz Chain0 5700MHz



802.11a 20MHz Chain0 5785MHz

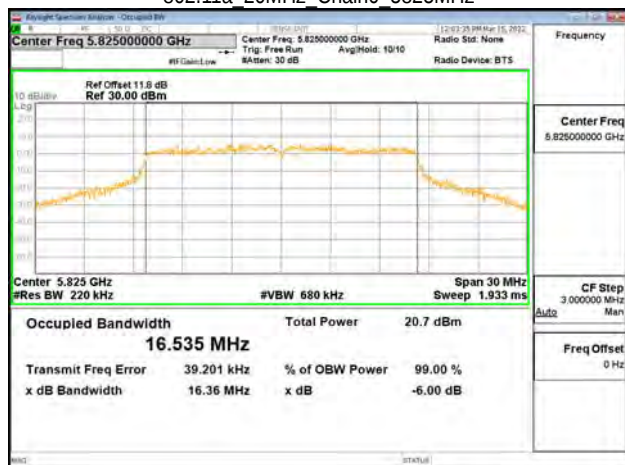


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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。

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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

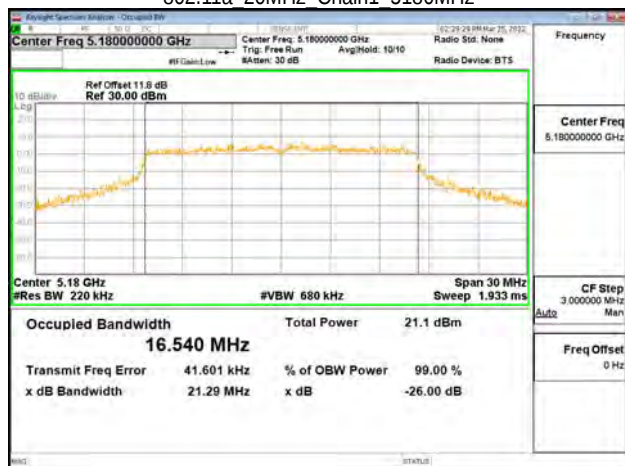
802.11a 20MHz Chain0 5825MHz



802.11a 20MHz Chain1 5240MHz



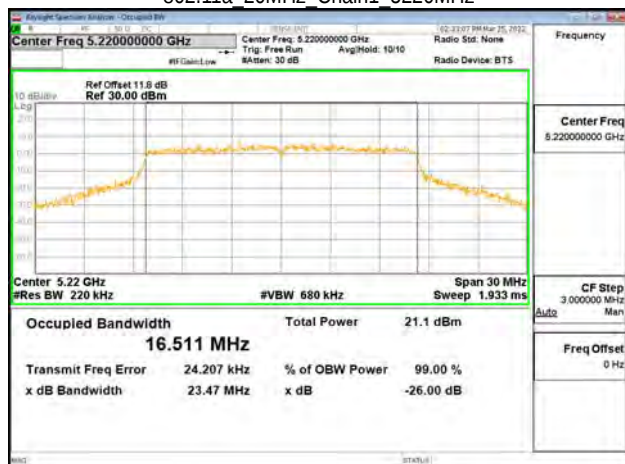
802.11a 20MHz Chain1 5180MHz



802.11a 20MHz Chain1 5260MHz



802.11a 20MHz Chain1 5220MHz



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。

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.

802.11a 20MHz Chain1 5320MHz



802.11a 20MHz Chain1 5700MHz



802.11a 20MHz Chain1 5500MHz



802.11a 20MHz Chain1 5720MHz



802.11a 20MHz Chain1 5580MHz



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.

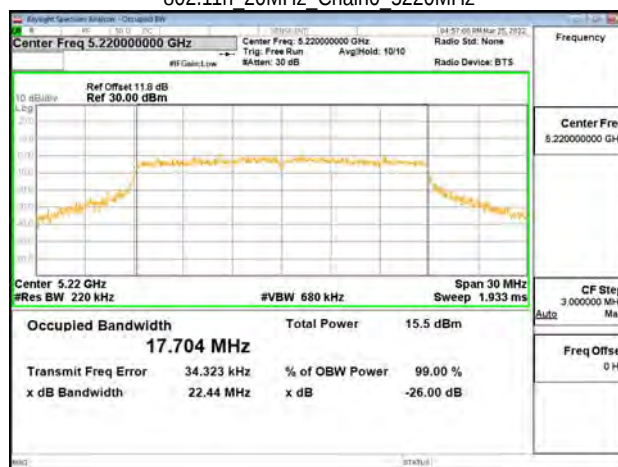
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

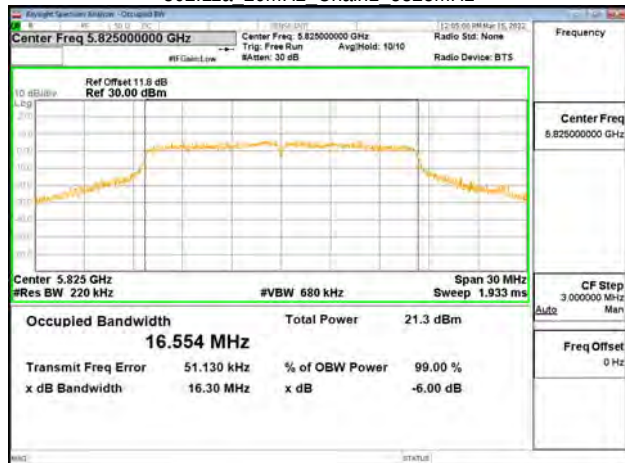
802.11a 20MHz Chain1 5785MHz



802.11n 20MHz Chain0 5220MHz



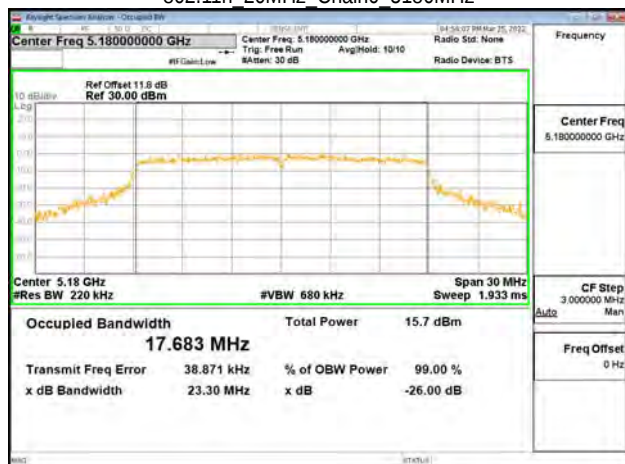
802.11a 20MHz Chain1 5825MHz



802.11n 20MHz Chain0 5240MHz



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.

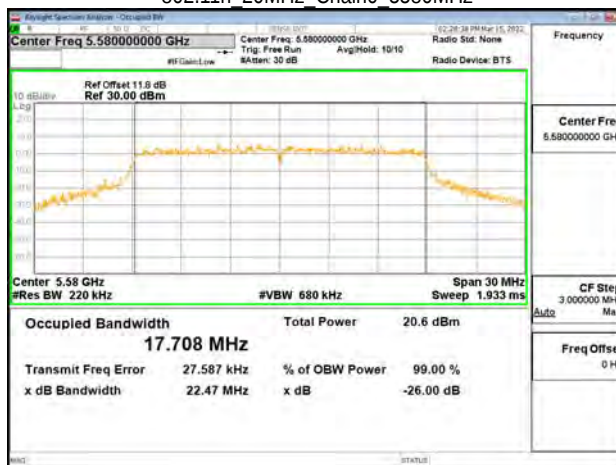
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

802.11n 20MHz Chain0 5300MHz



802.11n 20MHz Chain0 5580MHz



802.11n 20MHz Chain0 5320MHz



802.11n 20MHz Chain0 5700MHz



802.11n 20MHz Chain0 5500MHz



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。

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.

802.11n 20MHz Chain0 5745MHz



802.11n 20MHz Chain1 5180MHz



802.11n 20MHz Chain0 5785MHz



802.11n 20MHz Chain1 5220MHz



802.11n 20MHz Chain0 5825MHz



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.

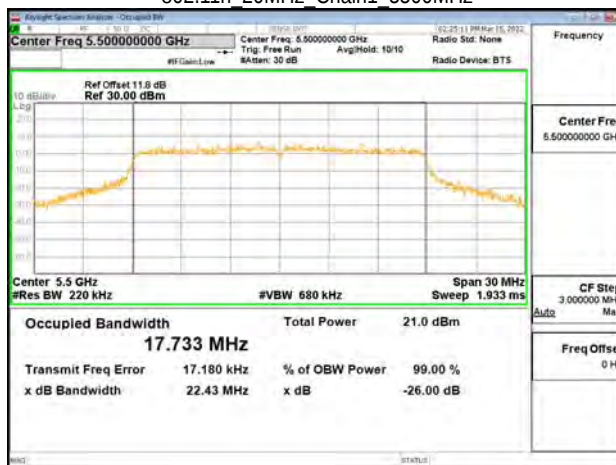
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

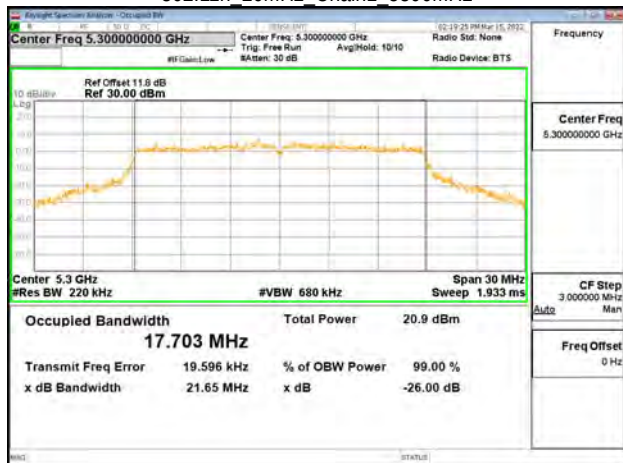
802.11n 20MHz Chain1 5260MHz



802.11n 20MHz Chain1 5500MHz



802.11n 20MHz Chain1 5300MHz



802.11n 20MHz Chain1 5580MHz



802.11n 20MHz Chain1 5320MHz



802.11n 20MHz Chain1 5700MHz

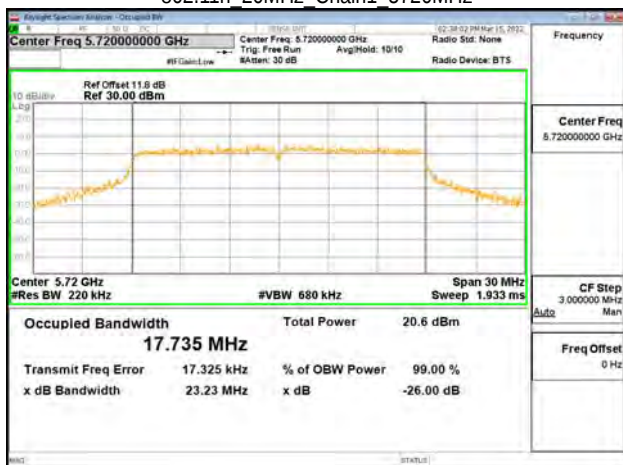


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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。

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.

802.11n 20MHz Chain1 5720MHz



802.11n 20MHz Chain1 5825MHz



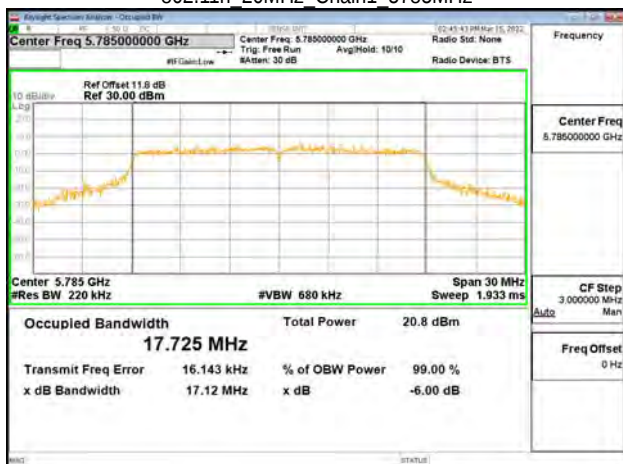
802.11n 20MHz Chain1 5745MHz



802.11n 40MHz Chain0 5190MHz



802.11n 20MHz Chain1 5785MHz



802.11n 40MHz Chain0 5230MHz

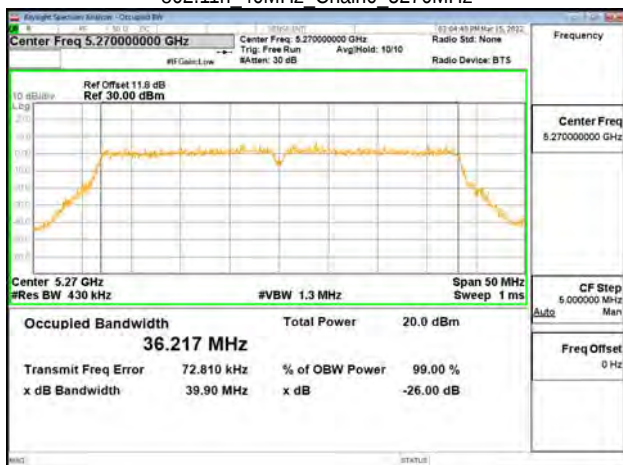


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

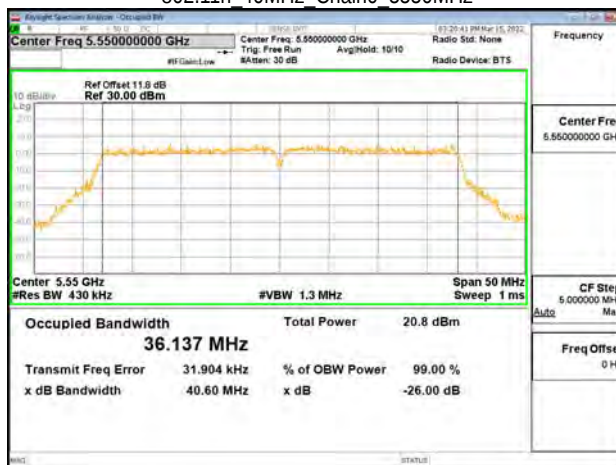
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

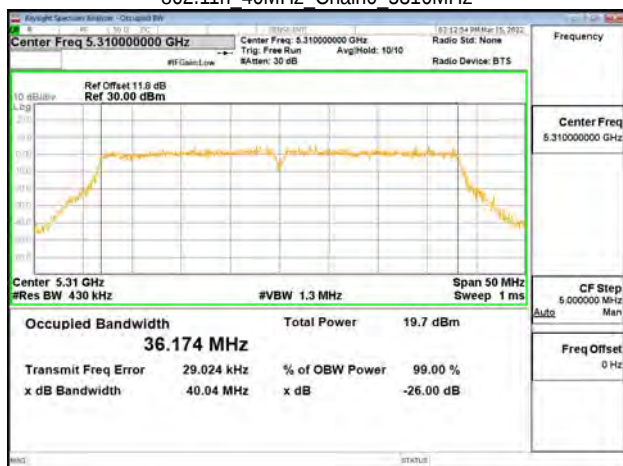
802.11n 40MHz Chain0 5270MHz



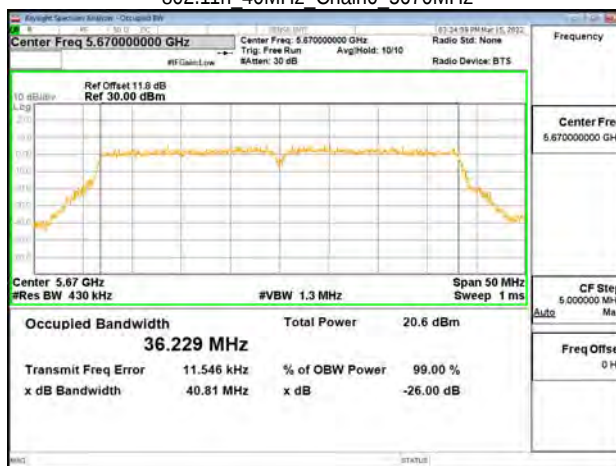
802.11n 40MHz Chain0 5550MHz



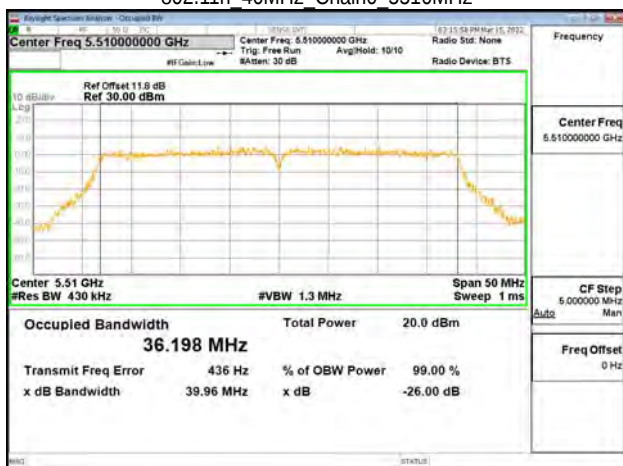
802.11n 40MHz Chain0 5310MHz



802.11n 40MHz Chain0 5670MHz



802.11n 40MHz Chain0 5510MHz



802.11n 40MHz Chain0 5710MHz

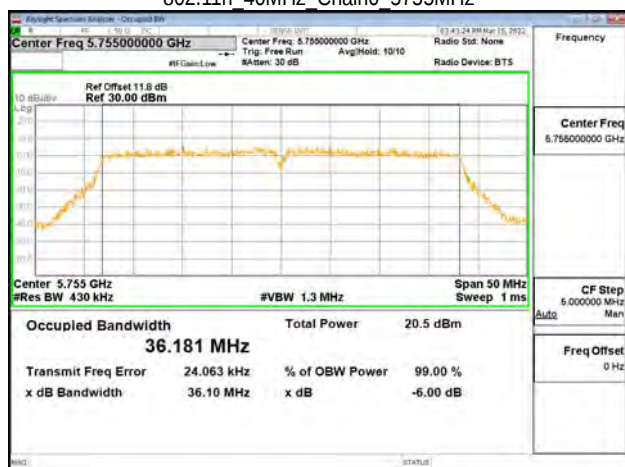


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

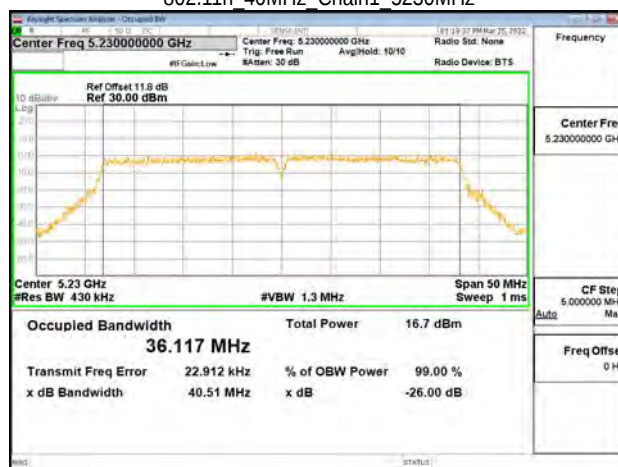
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

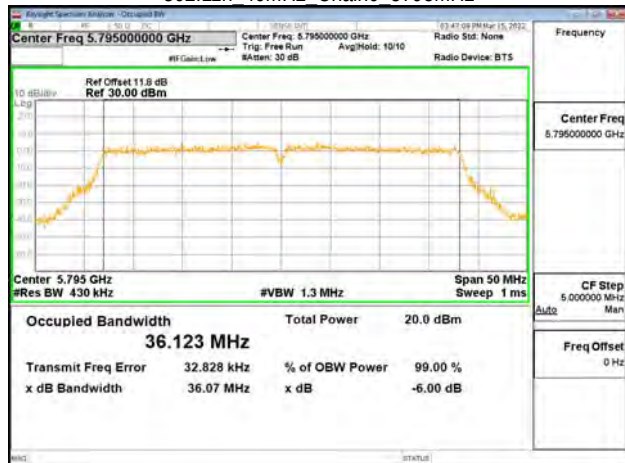
802.11n 40MHz Chain0 5755MHz



802.11n 40MHz Chain1 5230MHz



802.11n 40MHz Chain0 5795MHz



802.11n 40MHz Chain1 5270MHz



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.

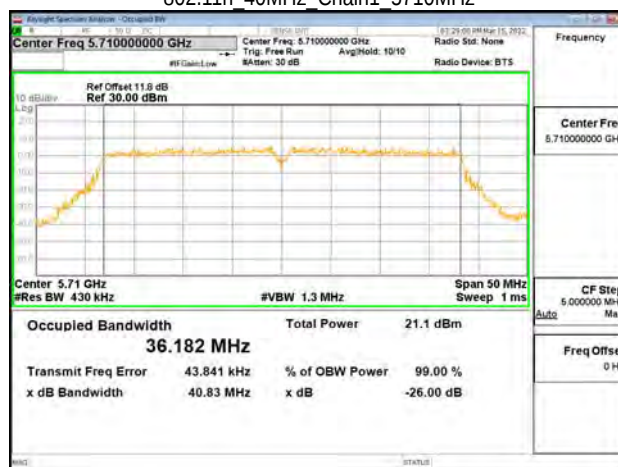
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

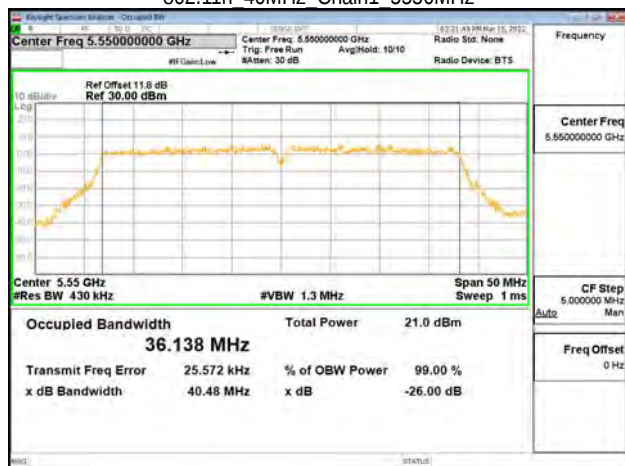
802.11n 40MHz Chain1 5510MHz



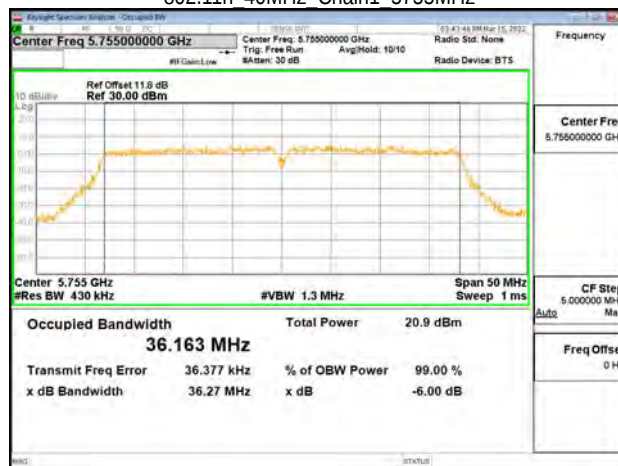
802.11n 40MHz Chain1 5710MHz



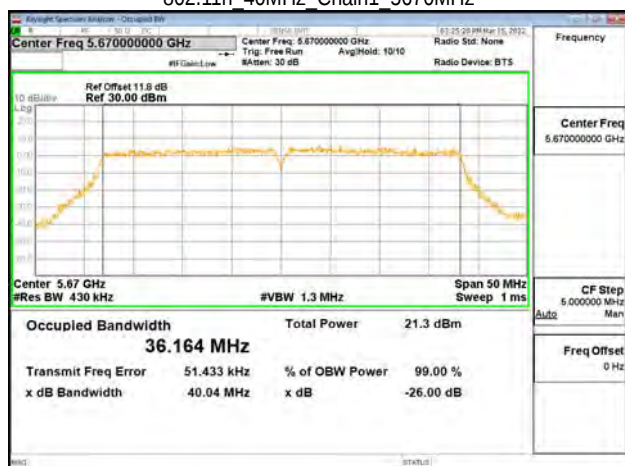
802.11n 40MHz Chain1 5550MHz



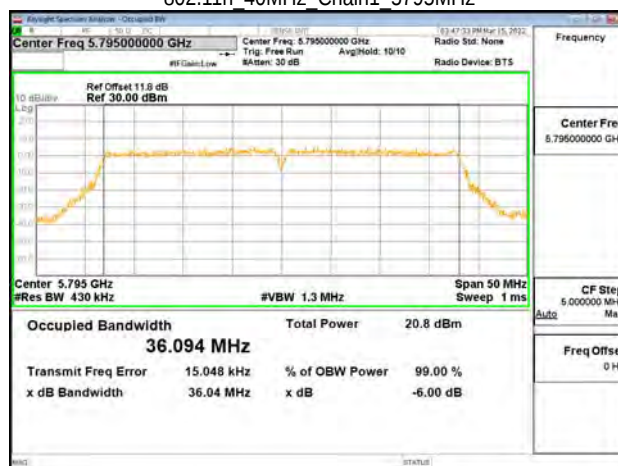
802.11n 40MHz Chain1 5755MHz



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。

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.

802.11ac 80MHz Chain0 5210MHz



802.11ac 80MHz Chain0 5610MHz



802.11ac 80MHz Chain0 5290MHz



802.11ac 80MHz Chain0 5690MHz



802.11ac 80MHz Chain0 5530MHz



802.11ac 80MHz Chain0 5775MHz

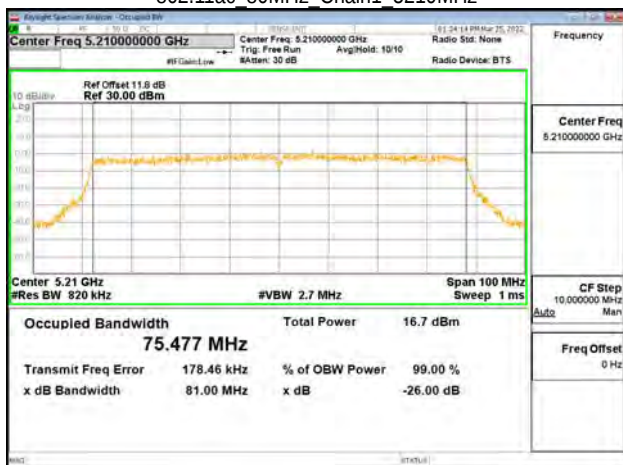


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

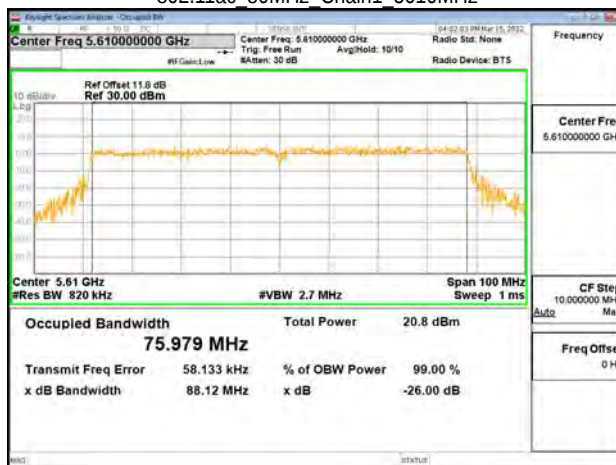
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

802.11ac 80MHz Chain1 5210MHz



802.11ac 80MHz Chain1 5610MHz



802.11ac 80MHz Chain1 5290MHz



802.11ac 80MHz Chain1 5690MHz



802.11ac 80MHz Chain1 5530MHz



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。

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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 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.

#### 9.1.2 Output Power

| Band     | EUT CATEGORY |                      | e-CRF Title 47 §15.407            |                                                |                                                           |                                       |
|----------|--------------|----------------------|-----------------------------------|------------------------------------------------|-----------------------------------------------------------|---------------------------------------|
|          |              |                      | Conducted Output Power            | EIRP                                           | TPC                                                       | Antenna Directional Gain Requirements |
| U-NII-1  |              | Fixed point-to-point | 1 Watt(30dBm)                     | Not required                                   | Not required                                              | 23dBi                                 |
|          |              | 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                                  |
|          | V            | 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<br>At least 6dB below EIRP<br>1W (30dBm) | 6dBi                                  |
| U-NII-2C | V            | Other                | 250mW(23.98dBm) or 11dBm+10 log B | Not required                                   |                                                           | 6dBi                                  |
| U-NII-3  | V            | Other                | 1 Watt(30dBm)                     | Not required                                   | Not required                                              | 6dBi                                  |
|          |              | 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.
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.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

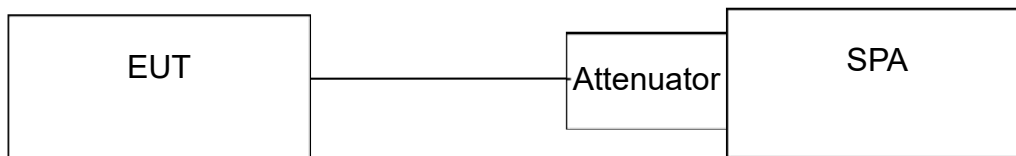
| FREQUENCY BAND (MHz)    | EUT CATEGORY |                                   | RSS-247 §6.2.1~6.2.4                                                                                                                                                                                                                                                               |                                 |                                         |
|-------------------------|--------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------|
|                         |              |                                   | EIRP                                                                                                                                                                                                                                                                               | Conducted Output Power          | TPC                                     |
| 5150~5250               |              | OEM devices installed in vehicles | 30 mW or $1.76 + 10 \log_{10} B$                                                                                                                                                                                                                                                   | N/A                             | At least 3dB below 30mW EIRP            |
|                         | V            | Other device                      | 200 mW or $10 + 10 \log_{10} B$ dBm                                                                                                                                                                                                                                                | N/A                             | N/A                                     |
| 5250~5350               |              | OEM devices installed in vehicles | 30 mW or $1.76 + 10 \log_{10} B$                                                                                                                                                                                                                                                   | N/A                             | At least 3dB below 30mW EIRP            |
|                         | V            | Other device                      | 1.0 W or $17 + 10 \log_{10} B$ dBm                                                                                                                                                                                                                                                 | 250 mW or $11 + 10 \log_{10} B$ | EIRP >500mW, at least 6dB below 1W EIRP |
|                         |              | Outdoor Fixed with EIRP>200mW     | $-13 \text{ dBW/MHz for } 0^\circ \leq \theta < 8^\circ$<br>$-13 - 0.716 (\theta - 8) \text{ dBW/MHz for } 8^\circ \leq \theta < 40^\circ$<br>$-35.9 - 1.22 (\theta - 40) \text{ dBW/MHz for } 40^\circ \leq \theta \leq 45^\circ$<br>$-42 \text{ dBW/MHz for } \theta > 45^\circ$ | N/A                             | EIRP >500mW, at least 6dB below 1W EIRP |
| 5470-5600 and 5650-5725 | V            | All                               | 1.0 W or $17 + 10 \log_{10} B$ dBm                                                                                                                                                                                                                                                 | 250 mW or $11 + 10 \log_{10} B$ | 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.

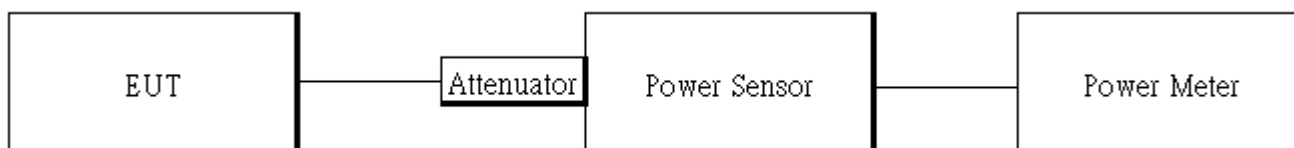
2. For the 10 log B, B is the 99% emission bandwidth.

## 9.2 Test Setup

### 9.2.1 Duty Cycle



### 9.2.2 Output Power



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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

### 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.
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 power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured 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;

$G_k$  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。

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.

#### 9.4 Duty Cycle Measurement Result

| Mode        | Duty Cycle (%)<br>=Ton / (Ton+Toff) | Duty Factor (dB)<br>=10*log ( 1/Duty Cycle ) | 1/T<br>(kHz) | VBW<br>setting<br>(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                    |

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

802.11a 20MHz Chain0 5180MHz



802.11ac 20MHz Chain0 5180MHz



802.11n 20MHz Chain0 5180MHz



802.11ac 40MHz Chain0 5190MHz



802.11n 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。

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.

## 9.5 Output Power Measurement Result

### 9.5.1 FCC Output power

#### 802.11a\_Ch0

| CH  | 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        | <b>16.44</b>      | 44.049           | 23.98                | PASS   |
| 52  | 5260            | 6         | 18        | 16.40             | 43.645           | 23.98                | PASS   |
| 60  | 5300            | 6         | 17.5      | <b>16.42</b>      | 43.846           | 23.98                | PASS   |
| 64  | 5320            | 6         | 17.5      | 16.37             | 43.344           | 23.98                | PASS   |
| 100 | 5500            | 6         | 18        | <b>16.42</b>      | 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        | <b>16.48</b>      | 44.456           | 30                   | PASS   |

#### 802.11a\_Ch1

| CH  | 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 <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.

## 802.11n\_HT20\_Ch0

| CH  | 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

| CH  | 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>. 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.

## 802.11n\_HT20\_MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | Ch0              | Ch1   |                   |                  |                      |        |
| 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

| CH  | 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>. 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.

## 802.11n\_HT40\_Ch1

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 38  | 5190            | HT0       | 13        | 12.44             | 17.547           | 23.98                | PASS   |
| 46  | 5230            | HT0       | 13        | 12.42             | 17.466           | 23.98                | PASS   |
| 54  | 5270            | HT0       | 17.5      | 16.47             | 44.381           | 23.98                | PASS   |
| 62  | 5310            | HT0       | 17        | 16.48             | 44.483           | 23.98                | PASS   |
| 102 | 5510            | HT0       | 17        | 16.41             | 43.772           | 23.98                | PASS   |
| 110 | 5550            | HT0       | 17        | 16.44             | 44.075           | 23.98                | PASS   |
| 134 | 5670            | HT0       | 17        | 16.43             | 43.974           | 23.98                | PASS   |
| 142 | 5710(U-NII 2C)  | HT0       | 16.5      | 15.79             | 37.96            | 23.98                | PASS   |
| 142 | 5710 (U-NII 3)  | HT0       | 16.5      | 7.64              | 5.81             | 30                   | PASS   |
| 151 | 5755            | HT0       | 16.5      | 16.36             | 43.271           | 30                   | PASS   |
| 159 | 5795            | HT0       | 16.5      | 16.39             | 43.571           | 30                   | PASS   |

## 802.11n\_HT40 MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | Ch0              | Ch1   |                   |                  |                      |        |
| 38  | 5190            | HT8       | 13        | 12.31            | 12.25 | 15.45             | 35.075           | 23.98                | PASS   |
| 46  | 5230            | HT8       | 13        | 12.31            | 12.24 | 15.45             | 35.075           | 23.98                | PASS   |
| 54  | 5270            | HT8       | 17        | 16.33            | 16.23 | 19.45             | 88.105           | 23.98                | PASS   |
| 62  | 5310            | HT8       | 16.5      | 16.26            | 16.21 | 19.41             | 87.297           | 23.98                | PASS   |
| 102 | 5510            | HT8       | 16.5      | 16.23            | 16.21 | 19.39             | 86.896           | 23.98                | PASS   |
| 110 | 5550            | HT8       | 17        | 16.32            | 16.25 | 19.46             | 88.308           | 23.98                | PASS   |
| 134 | 5670            | HT8       | 16.5      | 16.36            | 16.25 | 19.48             | 88.716           | 23.98                | PASS   |
| 142 | 5710(U-NII 2C)  | HT8       | 16.5      | 15.76            | 15.60 | 18.85             | 76.791           | 23.98                | PASS   |
| 142 | 5710 (U-NII 3)  | HT8       | 16.5      | 7.60             | 7.45  | 10.70             | 11.741           | 29.76                | PASS   |
| 151 | 5755            | HT8       | 16.5      | 16.32            | 16.28 | 19.47             | 88.512           | 29.76                | PASS   |
| 159 | 5795            | HT8       | 16.5      | 16.29            | 16.25 | 19.44             | 87.902           | 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>. 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.

## 802.11ac\_VHT20\_Ch0

| CH  | 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

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 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 <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.

## 802.11ac VHT20 MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | Ch0              | Ch1   |                   |                  |                      |        |
| 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

| CH  | 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

| CH  | 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   |

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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 MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | Ch0              | Ch1   |                   |                  |                      |        |
| 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

| CH  | 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

| CH  | 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

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | Ch0              | Ch1   |                   |                  |                      |        |
| 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   |

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

## 9.5.2 ISED Conducted output power and EIRP

### 802.11a\_Ch0

| CH  | 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             | <b>43.846</b>    | 23.18                | PASS   |
| 116 | 5580            | 16.39             | 43.544           | 23.18                | PASS   |
| 140 | 5700            | 16.38             | <b>43.444</b>    | 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            | <b>16.48</b>      | <b>44.456</b>    | 30                   | PASS   |

### 802.11a\_Ch1

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 52  | 5260            | 16.34             | 43.046           | 23.18                | PASS   |
| 60  | 5300            | <b>16.40</b>      | <b>43.645</b>    | 23.18                | PASS   |
| 64  | 5320            | 16.35             | 43.145           | 23.19                | PASS   |
| 100 | 5500            | 16.29             | 42.553           | 23.18                | PASS   |
| 116 | 5580            | <b>16.37</b>      | <b>43.344</b>    | 23.18                | PASS   |
| 140 | 5700            | <b>16.27</b>      | <b>42.358</b>    | 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            | <b>16.39</b>      | <b>43.544</b>    | 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。

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.

## 802.11n\_HT20\_Ch0

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 52  | 5260            | 16.45             | 44.107           | 23.48                | PASS   |
| 60  | 5300            | <b>16.48</b>      | <b>44.413</b>    | 23.48                | PASS   |
| 64  | 5320            | 16.40             | 43.602           | 23.48                | PASS   |
| 100 | 5500            | 16.42             | 43.803           | 23.48                | PASS   |
| 116 | 5580            | <b>16.47</b>      | <b>44.311</b>    | 23.48                | PASS   |
| 140 | 5700            | <b>16.43</b>      | <b>43.904</b>    | 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            | <b>16.46</b>      | <b>44.209</b>    | 30                   | PASS   |
| 165 | 5825            | <b>16.46</b>      | <b>44.209</b>    | 30                   | PASS   |

## 802.11n\_HT20\_Ch1

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 52  | 5260            | 16.38             | 43.402           | 23.48                | PASS   |
| 60  | 5300            | <b>16.39</b>      | 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            | <b>16.44</b>      | <b>44.006</b>    | 23.5                 | PASS   |
| 140 | 5700            | <b>16.41</b>      | <b>43.703</b>    | 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            | <b>16.41</b>      | <b>43.703</b>    | 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>. 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.

## 802.11n\_HT20\_MIMO

| CH  | Frequency (MHz) | AVERAGE POWER (dBm) |        | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|---------------------|--------|-------------------|------------------|----------------------|--------|
|     |                 | Ch0                 | Ch1    |                   |                  |                      |        |
| 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  | <b>20.49</b>      | <b>111.944</b>   | 23.48                | PASS   |
| 100 | 5500            | 17.39               | 17.36  | 20.47             | 111.429          | 23.48                | PASS   |
| 116 | 5580            | 17.41               | 17.35  | <b>20.48</b>      | <b>111.686</b>   | 23.48                | PASS   |
| 140 | 5700            | 17.01               | 16.92  | <b>20.06</b>      | <b>101.391</b>   | 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  | <b>20.47</b>      | <b>111.429</b>   | 29.76                | PASS   |

## 802.11n\_HT40\_Ch0

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 54  | 5270            | 16.44             | 44.075           | 23.98                | PASS   |
| 62  | 5310            | <b>16.49</b>      | <b>44.585</b>    | 23.98                | PASS   |
| 102 | 5510            | 16.45             | 44.177           | 23.98                | PASS   |
| 110 | 5550            | <b>16.48</b>      | <b>44.483</b>    | 23.98                | PASS   |
| 134 | 5670            | <b>16.44</b>      | <b>44.075</b>    | 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            | <b>16.41</b>      | <b>43.772</b>    | 30                   | PASS   |

## 802.11n\_HT40\_Ch1

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 54  | 5270            | 16.47             | 44.381           | 23.98                | PASS   |
| 62  | 5310            | <b>16.48</b>      | <b>44.483</b>    | 23.98                | PASS   |
| 102 | 5510            | 16.41             | 43.772           | 23.98                | PASS   |
| 110 | 5550            | <b>16.44</b>      | <b>44.075</b>    | 23.98                | PASS   |
| 134 | 5670            | <b>16.43</b>      | <b>43.974</b>    | 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            | <b>16.39</b>      | <b>43.571</b>    | 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>. 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.

## 802.11n\_HT40\_MIMO

| CH  | Frequency<br>(MHz) | AVERAGE POWER<br>(dBm) |        | TOTAL<br>POWER<br>(dBm) | TOTAL<br>POWER<br>(mW) | REQUIRED<br>LIMIT<br>(dBm) | RESULT |
|-----|--------------------|------------------------|--------|-------------------------|------------------------|----------------------------|--------|
|     |                    | Ch0                    | Ch1    |                         |                        |                            |        |
| 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  | <b>19.46</b>            | <b>88.308</b>          | 23.98                      | PASS   |
| 134 | 5670               | 16.36                  | 16.25  | <b>19.48</b>            | <b>88.716</b>          | 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  | <b>19.47</b>            | <b>88.512</b>          | 29.76                      | PASS   |
| 159 | 5795               | 16.29                  | 16.25  | 19.44                   | 87.902                 | 29.76                      | PASS   |

## 802.11ac\_VHT20\_Ch0

| CH  | Frequency<br>(MHz) | TOTAL<br>POWER<br>(dBm) | TOTAL<br>POWER<br>(mW) | REQUIRED<br>LIMIT<br>(dBm) | RESULT |
|-----|--------------------|-------------------------|------------------------|----------------------------|--------|
| 52  | 5260               | <b>17.37</b>            | 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               | <b>17.41</b>            | <b>55.083</b>          | 23.48                      | PASS   |
| 140 | 5700               | <b>17.39</b>            | <b>54.830</b>          | 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               | <b>17.37</b>            | <b>54.578</b>          | 30                         | PASS   |
| 165 | 5825               | 17.35                   | 54.328                 | 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>. 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.

## 802.11ac\_VHT20\_Ch1

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 52  | 5260            | <b>17.35</b>      | 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            | <b>17.34</b>      | <b>54.203</b>    | 23.49                | PASS   |
| 116 | 5580            | 17.29             | 53.582           | 23.5                 | PASS   |
| 140 | 5700            | <b>17.37</b>      | <b>54.578</b>    | 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            | <b>17.34</b>      | <b>54.203</b>    | 30                   | PASS   |
| 157 | 5785            | 17.33             | 54.078           | 30                   | PASS   |
| 165 | 5825            | <b>17.34</b>      | <b>54.203</b>    | 30                   | PASS   |

## 802.11ac\_VHT20\_MIMO

| CH  | Frequency (MHz) | AVERAGE POWER (dBm) |        | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|---------------------|--------|-------------------|------------------|----------------------|--------|
|     |                 | Ch0                 | Ch1    |                   |                  |                      |        |
| 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  | <b>20.35</b>      | <b>108.393</b>   | 23.48                | PASS   |
| 116 | 5580            | 17.26               | 17.25  | <b>20.35</b>      | <b>108.393</b>   | 23.48                | PASS   |
| 140 | 5700            | 16.98               | 16.77  | <b>19.97</b>      | <b>99.312</b>    | 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  | <b>20.46</b>      | <b>111.173</b>   | 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>. 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.

## 802.11ac\_VHT40\_Ch0

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 54  | 5270            | <b>16.42</b>      | <b>43.863</b>    | 23.98                | PASS   |
| 62  | 5310            | 16.35             | 43.162           | 23.98                | PASS   |
| 102 | 5510            | <b>16.40</b>      | <b>43.662</b>    | 23.98                | PASS   |
| 110 | 5550            | <b>16.40</b>      | <b>43.662</b>    | 23.98                | PASS   |
| 134 | 5670            | <b>16.38</b>      | <b>43.461</b>    | 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            | <b>16.41</b>      | <b>43.763</b>    | 30                   | PASS   |

## 802.11ac\_VHT40\_Ch1

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 54  | 5270            | <b>16.41</b>      | <b>43.763</b>    | 23.98                | PASS   |
| 62  | 5310            | 16.31             | 42.766           | 23.98                | PASS   |
| 102 | 5510            | 16.35             | 43.162           | 23.98                | PASS   |
| 110 | 5550            | <b>16.39</b>      | <b>43.562</b>    | 23.98                | PASS   |
| 134 | 5670            | <b>16.35</b>      | <b>43.162</b>    | 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            | <b>16.39</b>      | <b>43.562</b>    | 30                   | PASS   |

## 802.11ac\_VHT40\_MIMO

| CH  | Frequency (MHz) | AVERAGE POWER (dBm) |        | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|---------------------|--------|-------------------|------------------|----------------------|--------|
|     |                 | Ch0                 | Ch1    |                   |                  |                      |        |
| 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  | <b>19.39</b>      | <b>86.896</b>    | 23.98                | PASS   |
| 134 | 5670            | 16.24               | 16.21  | <b>19.40</b>      | <b>87.096</b>    | 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  | <b>19.43</b>      | <b>87.700</b>    | 29.76                | PASS   |
| 159 | 5795            | 16.26               | 16.22  | 19.41             | 87.297           | 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>. 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.

## 802.11ac\_VHT80\_Ch0

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 58  | 5290            | <b>15.47</b>      | 35.274           | 23.98                | PASS   |
| 106 | 5530            | <b>15.47</b>      | <b>35.274</b>    | 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            | <b>15.48</b>      | <b>35.355</b>    | 30                   | PASS   |

## 802.11ac\_VHT80\_Ch1

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 58  | 5290            | <b>15.38</b>      | 34.550           | 23.98                | PASS   |
| 106 | 5530            | 15.36             | 34.392           | 23.98                | PASS   |
| 122 | 5610            | <b>15.40</b>      | <b>34.710</b>    | 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            | <b>15.44</b>      | <b>35.031</b>    | 30                   | PASS   |

## 802.11ac\_VHT80\_MIMO

| CH  | Frequency (MHz) | AVERAGE POWER (dBm) |        | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|---------------------|--------|-------------------|------------------|----------------------|--------|
|     |                 | Ch0                 | Ch1    |                   |                  |                      |        |
| 58  | 5290            | 15.14               | 15.05  | <b>18.43</b>      | 69.663           | 23.98                | PASS   |
| 106 | 5530            | 15.12               | 15.08  | 18.43             | 69.663           | 23.98                | PASS   |
| 122 | 5610            | 15.19               | 15.01  | <b>18.44</b>      | <b>69.823</b>    | 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   | <b>18.47</b>      | <b>70.307</b>    | 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>. 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.

## 802.11a\_Ch0

| CH  | 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            | <b>16.44</b>      | 2.77               | <b>19.21</b> | <b>83.368</b> | 22.19                | PASS   |
| 52  | 5260            | 16.40             | 2.45               | 18.85        | 76.736        | 29.18                | PASS   |
| 60  | 5300            | <b>16.42</b>      | 2.45               | <b>18.87</b> | <b>77.090</b> | 29.18                | PASS   |
| 64  | 5320            | 16.37             | 2.45               | 18.82        | 76.208        | 29.18                | PASS   |
| 100 | 5500            | <b>16.42</b>      | 2.81               | <b>19.23</b> | <b>83.753</b> | 29.18                | PASS   |
| 116 | 5580            | 16.39             | 2.81               | 19.20        | 83.176        | 29.18                | PASS   |
| 140 | 5700            | <b>16.38</b>      | 2.81               | <b>19.19</b> | <b>82.985</b> | 29.18                | PASS   |

## 802.11a\_Ch1

| CH  | 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            | <b>16.37</b>      | 2.450              | <b>18.82</b> | <b>76.208</b> | 23.01                | PASS   |
| 52  | 5260            | 16.34             | 1.920              | 18.26        | 66.988        | 30                   | PASS   |
| 60  | 5300            | <b>16.40</b>      | 1.920              | <b>18.32</b> | <b>67.920</b> | 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            | <b>16.37</b>      | 2.860              | <b>19.23</b> | <b>83.753</b> | 30                   | PASS   |
| 140 | 5700            | <b>16.27</b>      | 2.860              | <b>19.13</b> | <b>81.846</b> | 30                   | PASS   |

## 802.11n\_HT20\_Ch0

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | EIRP (mW)     | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|--------------|---------------|----------------------|--------|
| 36  | 5180            | <b>12.47</b>      | 2.77               | <b>15.24</b> | <b>33.420</b> | 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            | <b>16.48</b>      | 2.45               | <b>18.93</b> | <b>78.163</b> | 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            | <b>16.47</b>      | 2.81               | <b>19.28</b> | <b>84.723</b> | 29.48                | PASS   |
| 140 | 5700            | <b>16.43</b>      | 2.81               | <b>19.24</b> | <b>83.946</b> | 29.48                | 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>. 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.

## 802.11n\_HT20\_Ch1

| CH  | 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

| CH  | 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

| CH  | 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   |

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 802.11n\_HT40\_Ch1

| CH  | 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

| CH  | 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

| CH  | 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   |

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 802.11ac\_VHT20\_Ch1

| CH  | 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            | <b>12.34</b>      | 2.450              | <b>14.79</b> | <b>30.130</b>  | 23.01                | PASS   |
| 48  | 5240            | 12.32             | 2.450              | 14.77        | 29.992         | 23.01                | PASS   |
| 52  | 5260            | <b>17.35</b>      | 1.920              | <b>19.27</b> | <b>84.528</b>  | 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            | <b>17.34</b>      | 2.860              | <b>20.20</b> | <b>104.713</b> | 30                   | PASS   |
| 116 | 5580            | 17.29             | 2.860              | 20.15        | 103.514        | 30                   | PASS   |
| 140 | 5700            | <b>17.37</b>      | 2.860              | <b>20.23</b> | <b>105.439</b> | 30                   | PASS   |

## 802.11ac\_VHT20\_MIMO

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | EIRP (mW)      | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|--------------|----------------|----------------------|--------|
| 36  | 5180            | <b>15.36</b>      | 5.62               | <b>20.98</b> | <b>125.314</b> | 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            | <b>20.37</b>      | 5.20               | <b>25.57</b> | <b>360.579</b> | 29.48                | PASS   |
| 60  | 5300            | 20.33             | 5.20               | 25.53        | 357.273        | 29.48                | PASS   |
| 64  | 5320            | <b>20.37</b>      | 5.20               | <b>25.57</b> | <b>360.579</b> | 29.48                | PASS   |
| 100 | 5500            | <b>20.35</b>      | 5.85               | <b>26.20</b> | <b>416.869</b> | 29.48                | PASS   |
| 116 | 5580            | <b>20.35</b>      | 5.85               | <b>26.20</b> | <b>416.869</b> | 29.48                | PASS   |
| 140 | 5700            | <b>19.97</b>      | 5.85               | <b>25.82</b> | <b>381.944</b> | 29.48                | PASS   |

## 802.11ac\_VHT40\_Ch0

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

## 802.11ac\_VHT40\_Ch1

| CH  | 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

| CH  | 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

| CH  | 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

| CH  | 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

| CH  | 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   |

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 10 MAXIMUM POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

| Operation Bands                                                                                                                                                                                       | EUT CATEGORY |                                   | e-CRF Title 47 §15.407<br>Power Spectral Density                    | Antenna<br>Directional Gain<br>Requirements |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------|---------------------------------------------------------------------|---------------------------------------------|
| U-NII-1                                                                                                                                                                                               |              | Outdoor Access Point (Master)     | 1. 17dBm/ MHz<br>2. EIRP<=125mW(21dBm) at any elevation angle > 30° | 6dBi                                        |
|                                                                                                                                                                                                       |              | Indoor Access Point (Master)      | 17dBm/ MHz                                                          | 6dBi                                        |
|                                                                                                                                                                                                       |              | Fixed point-to-point Access Point | 17dBm/ MHz                                                          | 23dBi                                       |
|                                                                                                                                                                                                       | V            | Client device                     | 11dBm/ MHz                                                          | 6dBi                                        |
| U-NII-2A                                                                                                                                                                                              | V            | All                               | 11dBm/ MHz                                                          | 6dBi                                        |
| U-NII-2C                                                                                                                                                                                              | V            | All                               | 11dBm/ MHz                                                          | 6dBi                                        |
| U-NII-3                                                                                                                                                                                               | V            | All                               | 30dBm/ 500kHz                                                       | 6dBi                                        |
| 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. |              |                                   |                                                                     |                                             |

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

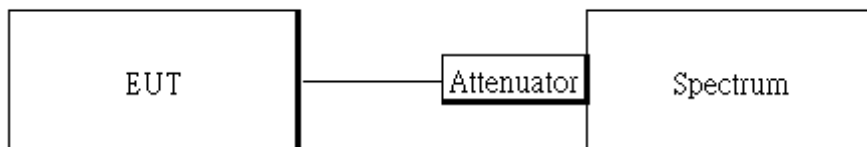
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

| FREQUENCY BAND (MHz)    | EUT CATEGORY |                                   | RSS-247 §6.2.1~6.2.4 |               |
|-------------------------|--------------|-----------------------------------|----------------------|---------------|
|                         |              |                                   | EIRP Density         | Power Density |
| 5150~5250               |              | OEM devices installed in vehicles | N/A                  | N/A           |
|                         | V            | Other device                      | 10 dBm/MHz           | N/A           |
| 5250~5350               |              | OEM devices installed in vehicles | N/A                  | N/A           |
|                         | 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

- 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 .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- 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.

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

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留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.

## 10.4 Measurement Result

| POWER DENSITY 802.11a MODE      |                           |                           |                  |                               |                                 |                  |             |
|---------------------------------|---------------------------|---------------------------|------------------|-------------------------------|---------------------------------|------------------|-------------|
| Frequency (MHz)                 | Ch0 meas PSD (dBm/MHz)    | Ch1 meas PSD (dBm/MHz)    | Duty Factor (dB) | Maximum 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             | 6.22                          |                                 | 11.00 dBm/MHz    | -4.78       |
| 5260                            | 5.83                      | 6.48                      | 0.00             | 6.48                          |                                 | 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             | 6.46                          |                                 | 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) | 10log (500kHz/RBW) Factor(dB) | Maximum 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      |
| POWER DENSITY 802.11n HT20 MODE |                           |                           |                  |                               |                                 |                  |             |
| Frequency (MHz)                 | Ch0 meas PSD (dBm/MHz)    | Ch1 meas PSD (dBm/MHz)    | Duty Factor (dB) | Maximum Corr'd PSD(dBm/MHz)   |                                 | Limit            | Margin (dB) |
| 5180                            | 0.96                      | 1.50                      | 0.00             | 4.25                          |                                 | 11.00 dBm/MHz    | -6.75       |
| 5220                            | 1.29                      | 0.78                      | 0.00             | 4.05                          |                                 | 11.00 dBm/MHz    | -6.95       |
| 5240                            | 1.05                      | 0.57                      | 0.00             | 3.82                          |                                 | 11.00 dBm/MHz    | -7.18       |
| 5260                            | 5.35                      | 6.03                      | 0.00             | 8.71                          |                                 | 11.00 dBm/MHz    | -2.29       |
| 5300                            | 5.86                      | 5.83                      | 0.00             | 8.85                          |                                 | 11.00 dBm/MHz    | -2.15       |
| 5320                            | 5.81                      | 6.20                      | 0.00             | 9.02                          |                                 | 11.00 dBm/MHz    | -1.98       |
| 5500                            | 6.08                      | 6.20                      | 0.00             | 9.15                          |                                 | 11.00 dBm/MHz    | -1.85       |
| 5580                            | 6.24                      | 6.99                      | 0.00             | 9.64                          |                                 | 11.00 dBm/MHz    | -1.36       |
| 5700                            | 6.12                      | 6.73                      | 0.00             | 9.44                          |                                 | 11.00 dBm/MHz    | -1.56       |
| 5720 (U-NII 2C)                 | 6.20                      | 6.57                      | 0.00             | 9.40                          |                                 | 11.00 dBm/MHz    | -1.60       |
| Frequency (MHz)                 | Ch0 meas PSD (dBm/300kHz) | Ch1 meas PSD (dBm/300kHz) | Duty Factor (dB) | 10log (500kHz/RBW) Factor(dB) | Maximum Corr'd PSD(dBm/500kHz)  | Limit            | Margin (dB) |
| 5720 (U-NII 3)                  | -0.13                     | 0.54                      | 0.00             | 2.22                          | 5.45                            | 29.76 dBm/500kHz | -24.31      |
| 5745                            | 1.40                      | 1.59                      | 0.00             | 2.22                          | 6.72                            | 29.76 dBm/500kHz | -23.04      |
| 5785                            | 1.27                      | 1.66                      | 0.00             | 2.22                          | 6.70                            | 29.76 dBm/500kHz | -23.06      |
| 5825                            | 1.34                      | 1.72                      | 0.00             | 2.22                          | 6.76                            | 29.76 dBm/500kHz | -23.00      |

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

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

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.

| POWER DENSITY 802.11n HT40 MODE |                           |                           |                  |                               |                                |                  |             |
|---------------------------------|---------------------------|---------------------------|------------------|-------------------------------|--------------------------------|------------------|-------------|
| Frequency (MHz)                 | Ch0 meas PSD (dBm/MHz)    | Ch1 meas PSD (dBm/MHz)    | Duty Factor (dB) | Maximum 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) | Maximum 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) | Maximum 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) | Maximum 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樣品負責，同時此樣品僅保留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.

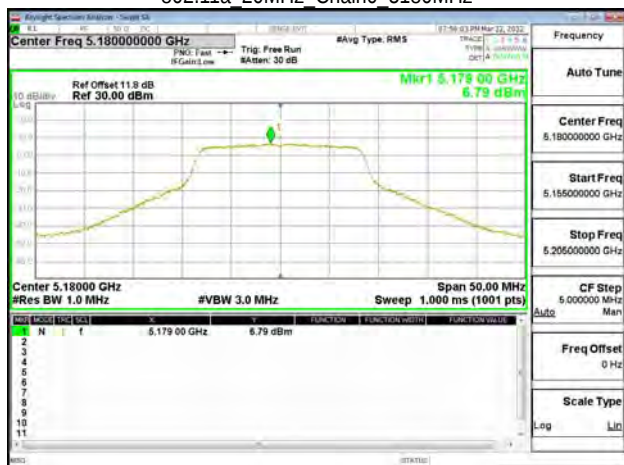
| EIRP spectral density 802.11a MODE        |           |                 |                |             |             |
|-------------------------------------------|-----------|-----------------|----------------|-------------|-------------|
| Freq. (MHz)                               | PSD (dBm) | Ant. Gain (dBi) | EIRP PSD (dBm) | Limit (dBm) | Margin (dB) |
| 5180                                      | 6.79      | 2.77            | 9.56           | 10          | -0.44       |
| 5220                                      | 6.58      | 2.77            | 9.35           | 10          | -0.65       |
| 5240                                      | 6.22      | 2.77            | 8.99           | 10          | -1.01       |
| EIRP spectral density 802.11n HT20 MODE   |           |                 |                |             |             |
| 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       |
| EIRP spectral density 802.11n HT40 MODE   |           |                 |                |             |             |
| Freq. (MHz)                               | PSD (dBm) | Ant. Gain (dBi) | EIRP PSD (dBm) | Limit (dBm) | Margin (dB) |
| 5190                                      | 2.06      | 5.62            | 7.68           | 10          | -2.32       |
| 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.

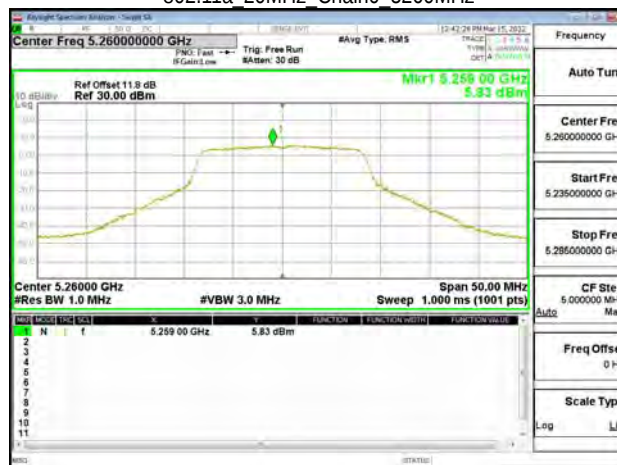
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

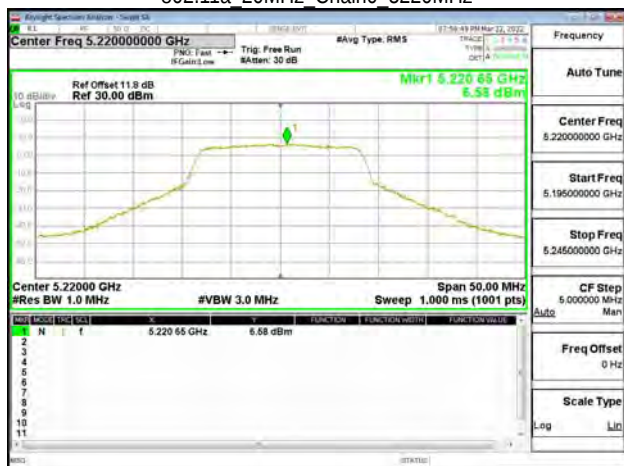
802.11a 20MHz Chain0 5180MHz



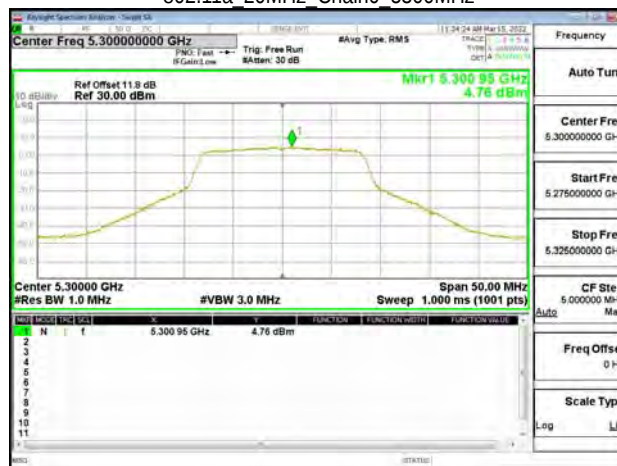
802.11a 20MHz Chain0 5260MHz



802.11a 20MHz Chain0 5220MHz



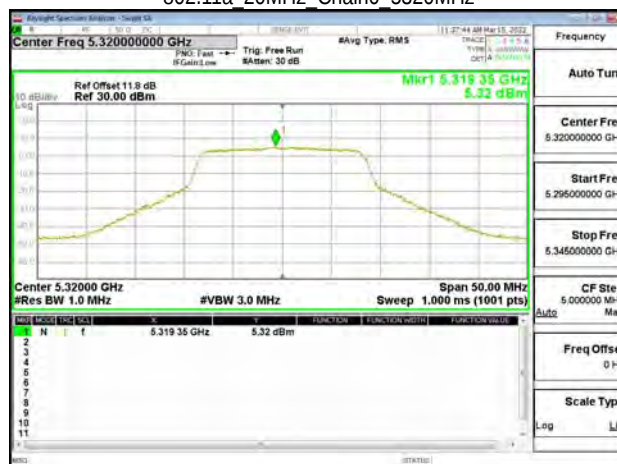
802.11a 20MHz Chain0 5300MHz



802.11a 20MHz Chain0 5240MHz



802.11a 20MHz Chain0 5320MHz

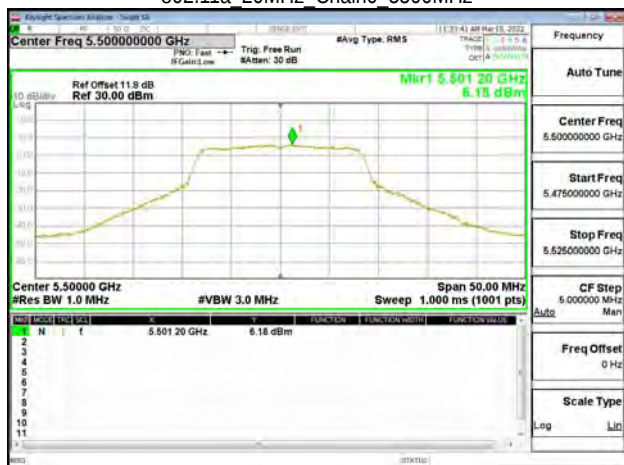


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

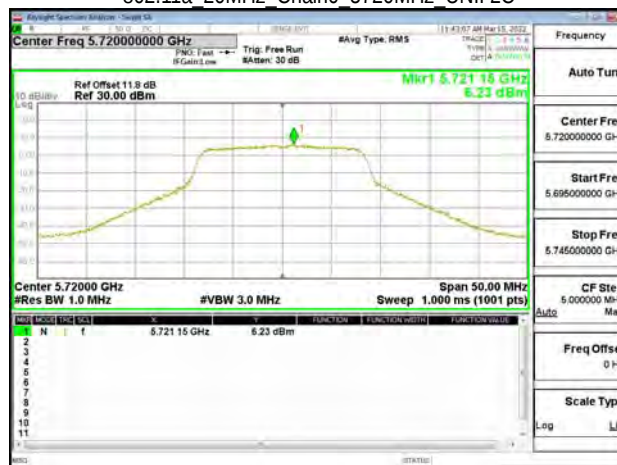
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

802.11a 20MHz Chain0 5500MHz



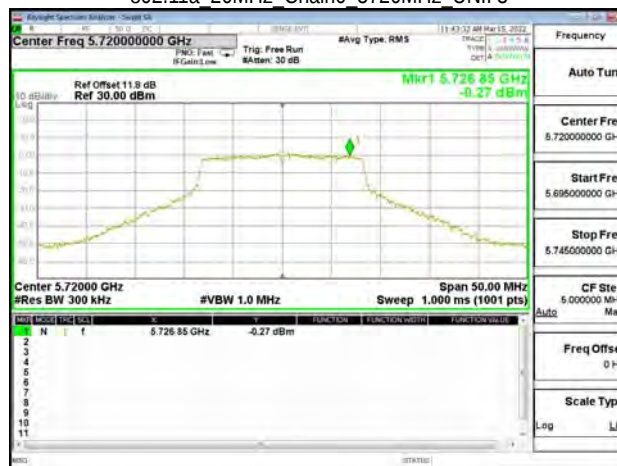
802.11a 20MHz Chain0 5720MHz UNII 2C



802.11a 20MHz Chain0 5580MHz



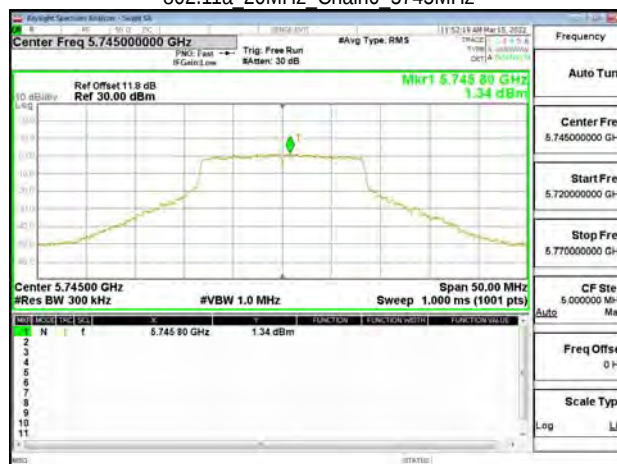
802.11a 20MHz Chain0 5720MHz UNII 3



802.11a 20MHz Chain0 5700MHz



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.

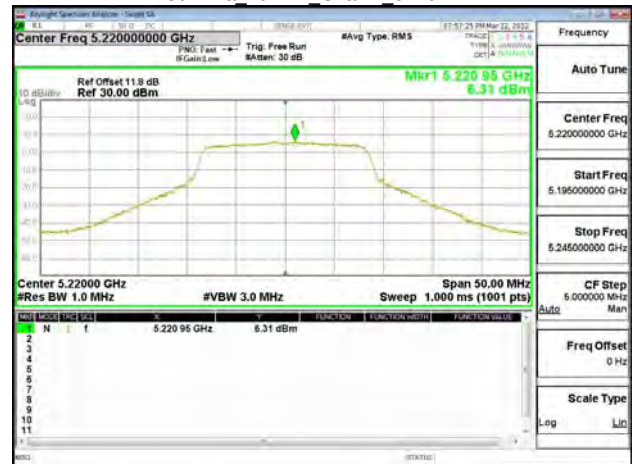
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

802.11a 20MHz Chain0 5785MHz



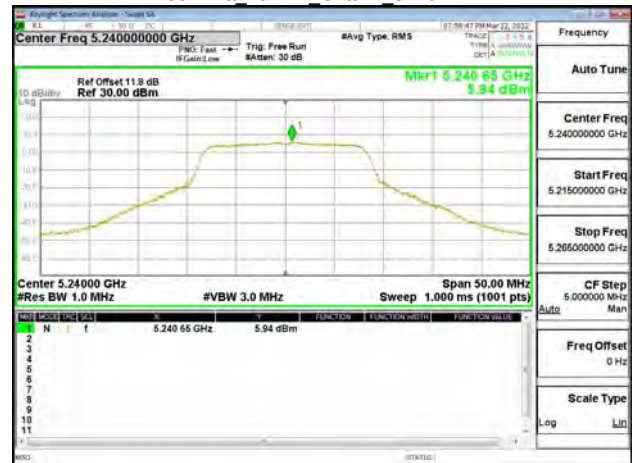
802.11a 20MHz Chain1 5220MHz



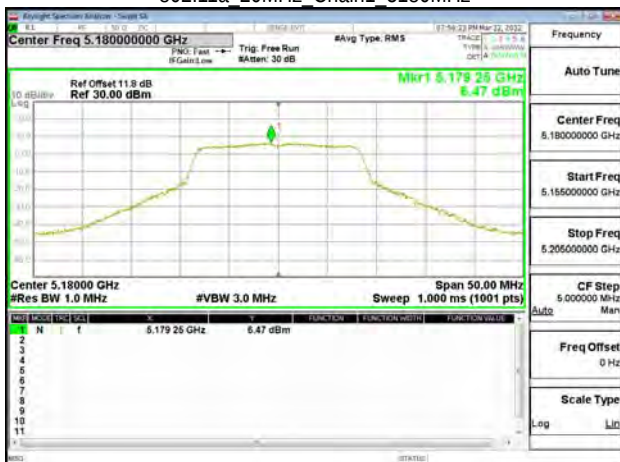
802.11a 20MHz Chain0 5825MHz



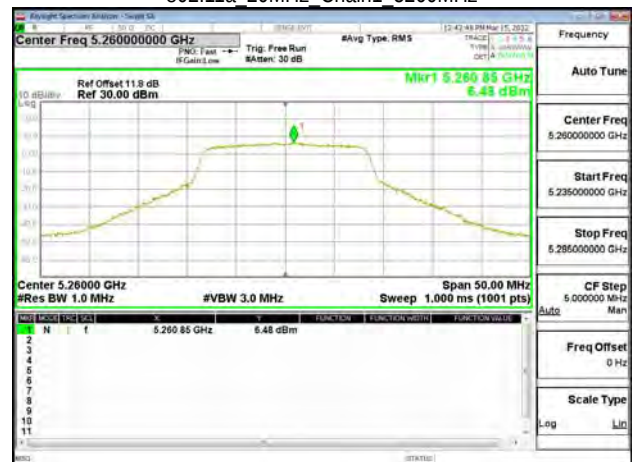
802.11a 20MHz Chain1 5240MHz



802.11a 20MHz Chain1 5180MHz



802.11a 20MHz Chain1 5260MHz

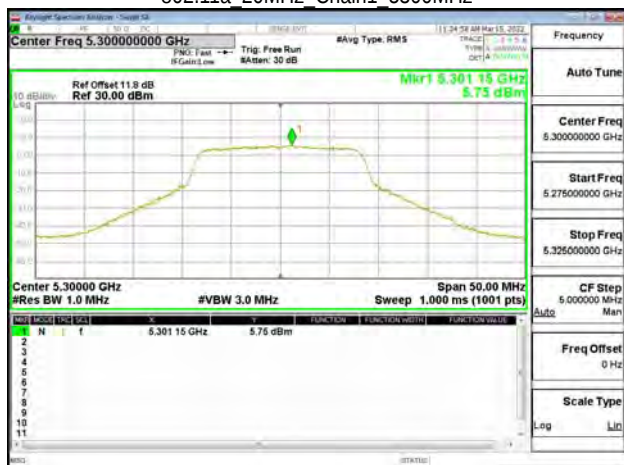


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

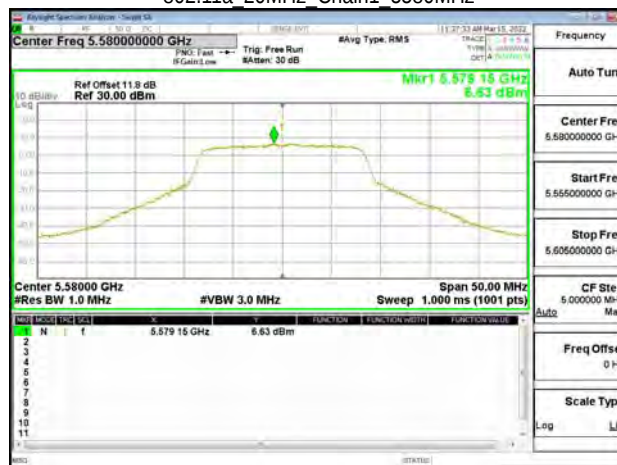
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

802.11a 20MHz Chain1 5300MHz



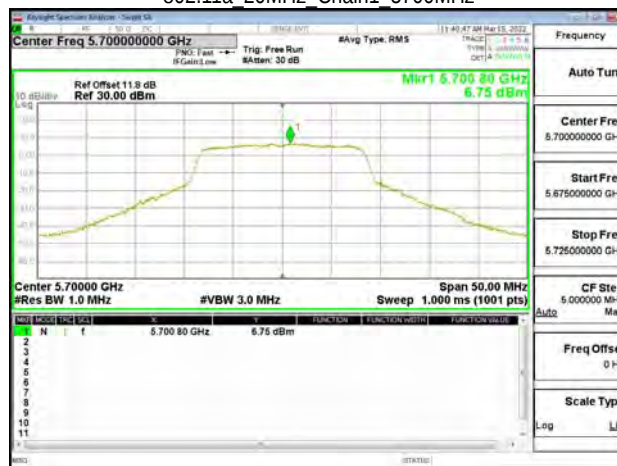
802.11a 20MHz Chain1 5580MHz



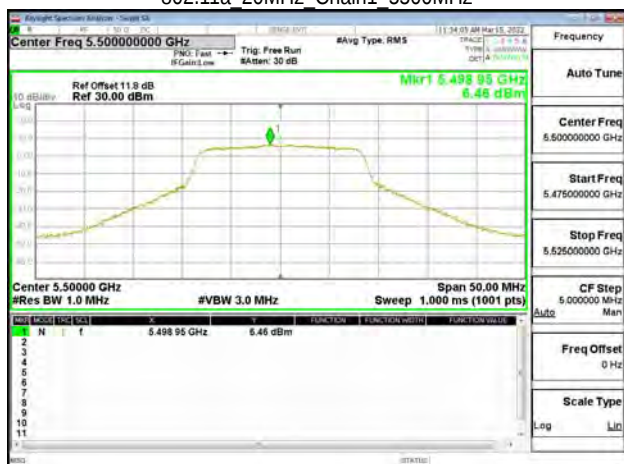
802.11a 20MHz Chain1 5320MHz



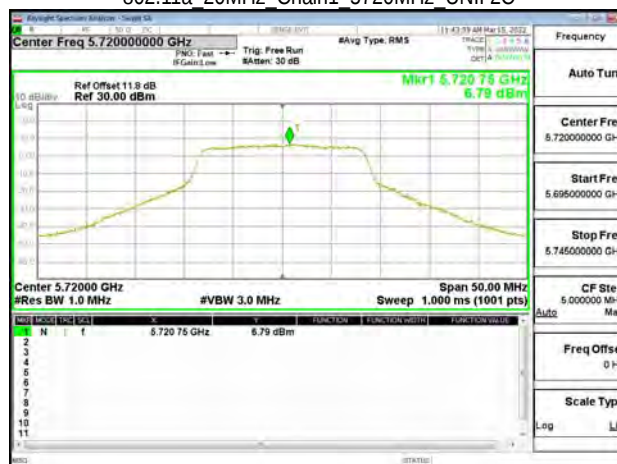
802.11a 20MHz Chain1 5700MHz



802.11a 20MHz Chain1 5500MHz



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>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

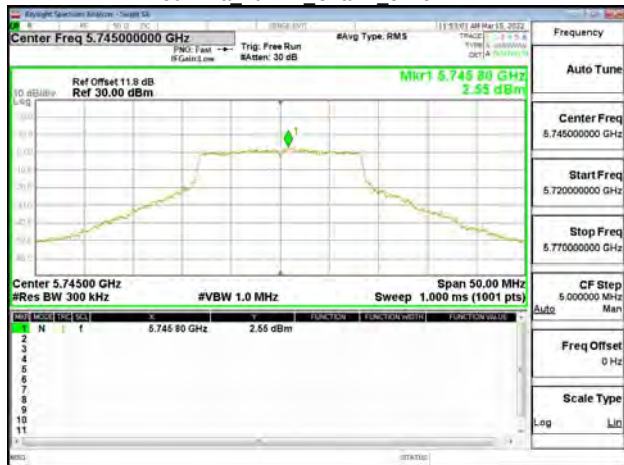
802.11a 20MHz Chain1 5720MHz UNII 3



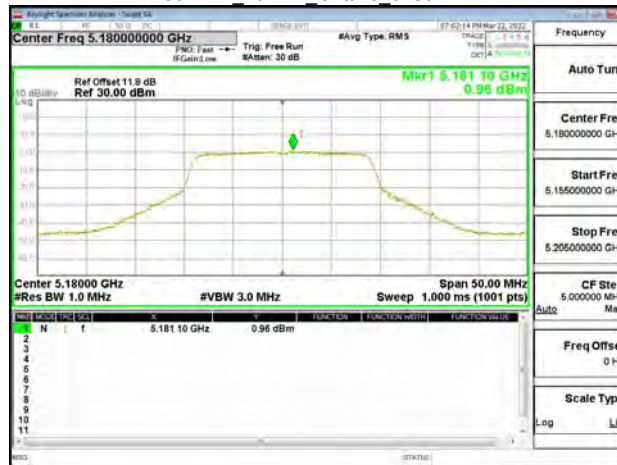
802.11a 20MHz Chain1 5825MHz



802.11a 20MHz Chain1 5745MHz



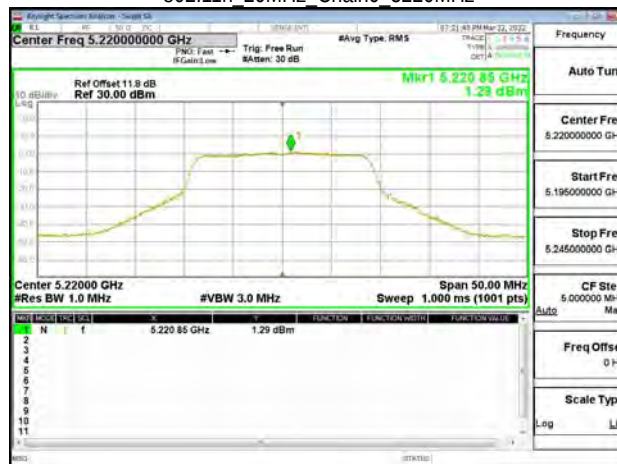
802.11n 20MHz Chain0 5180MHz



802.11a 20MHz Chain1 5785MHz



802.11n 20MHz Chain0 5220MHz

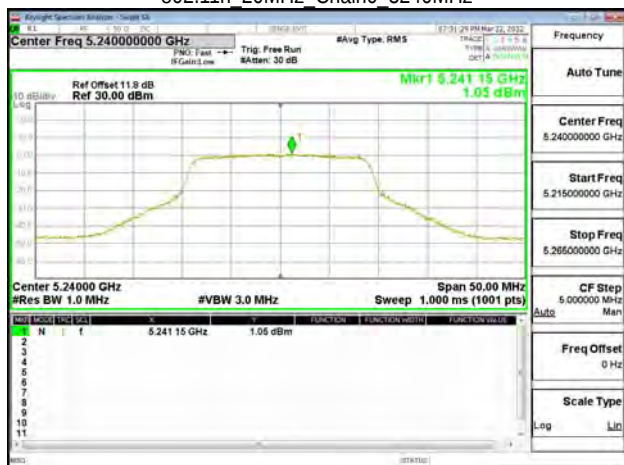


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

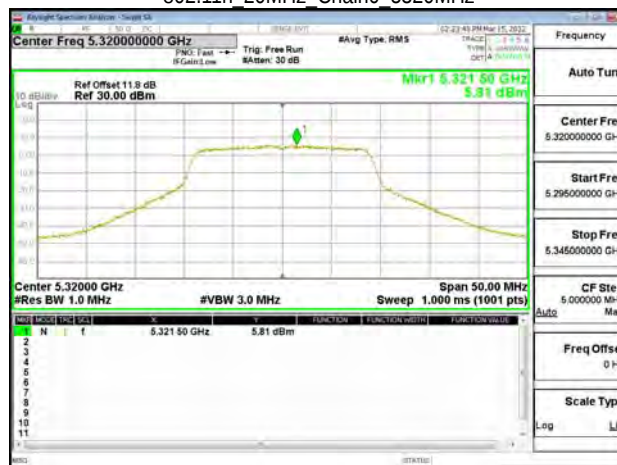
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

802.11n 20MHz Chain0 5240MHz



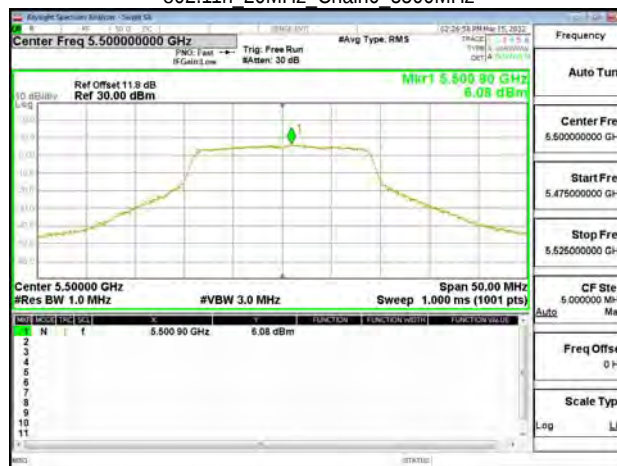
802.11n 20MHz Chain0 5320MHz



802.11n 20MHz Chain0 5260MHz



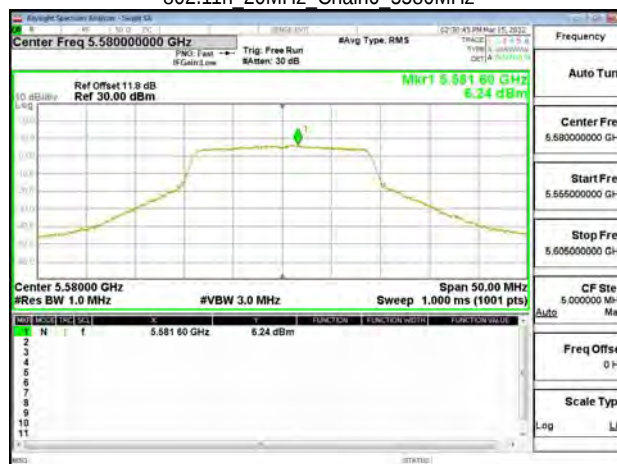
802.11n 20MHz Chain0 5500MHz



802.11n 20MHz Chain0 5300MHz



802.11n 20MHz Chain0 5580MHz



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

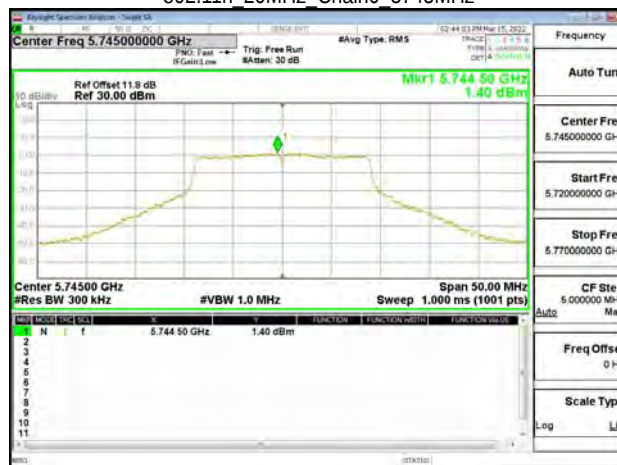
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

802.11n 20MHz Chain0 5700MHz



802.11n 20MHz Chain0 5745MHz



802.11n 20MHz Chain0 5720MHz UNII 2C



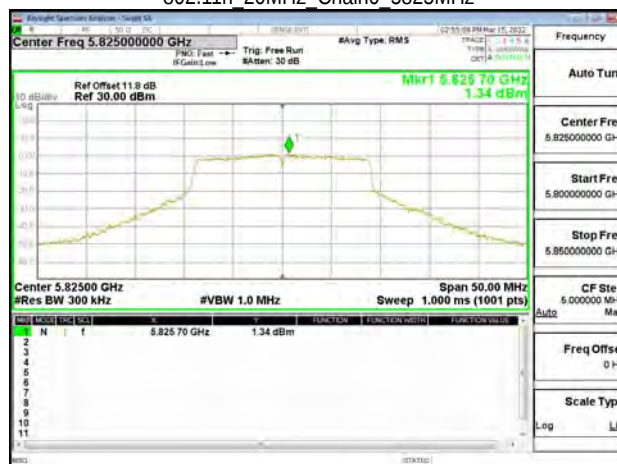
802.11n 20MHz Chain0 5785MHz



802.11n 20MHz Chain0 5720MHz UNII 3



802.11n 20MHz Chain0 5825MHz

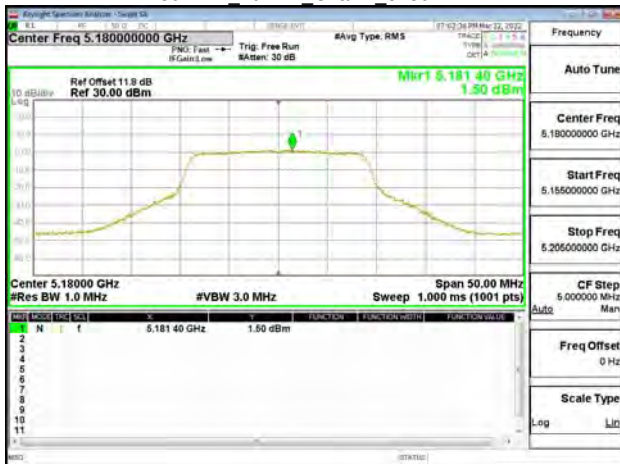


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

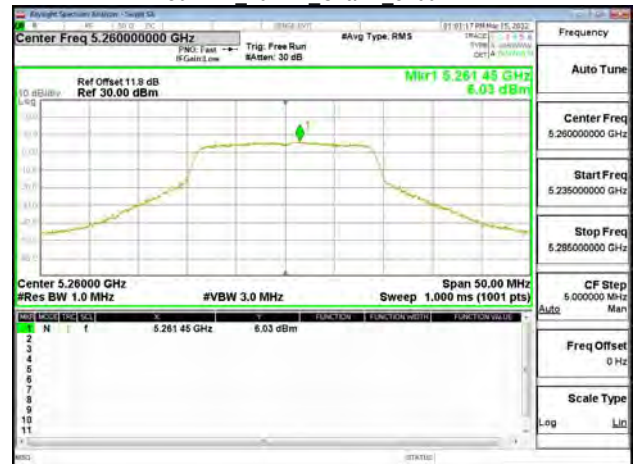
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

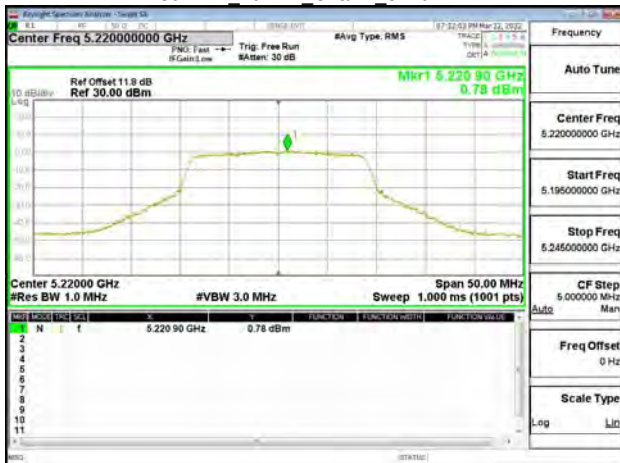
802.11n 20MHz Chain1 5180MHz



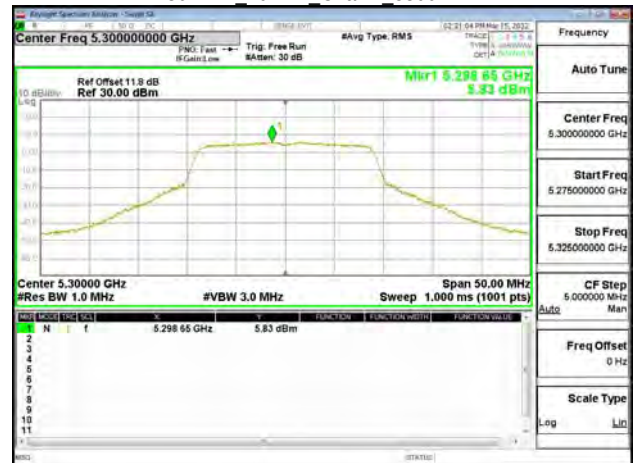
802.11n 20MHz Chain1 5260MHz



802.11n 20MHz Chain1 5220MHz



802.11n 20MHz Chain1 5300MHz



802.11n 20MHz Chain1 5240MHz



802.11n 20MHz Chain1 5320MHz

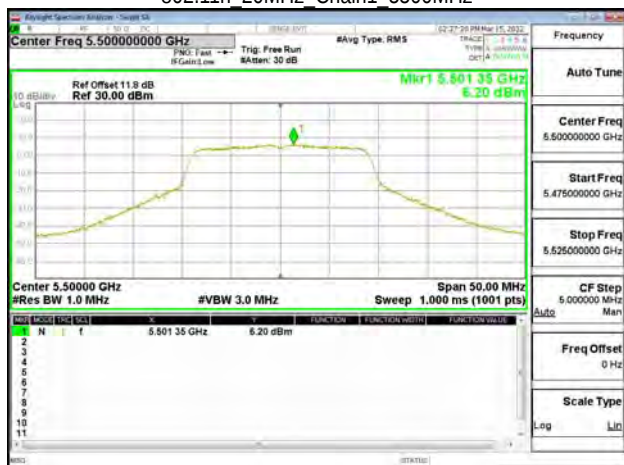


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

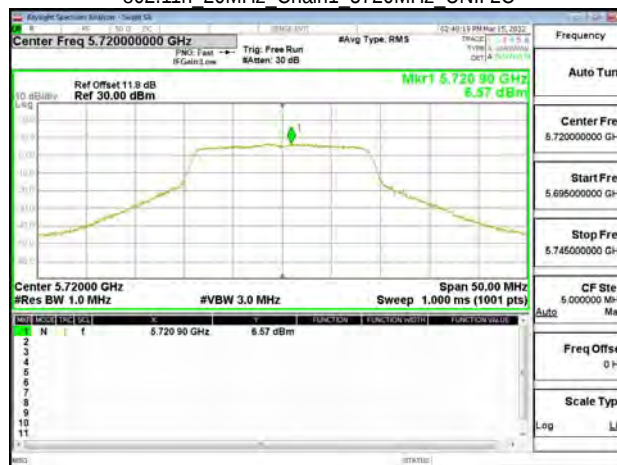
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

802.11n 20MHz Chain1 5500MHz



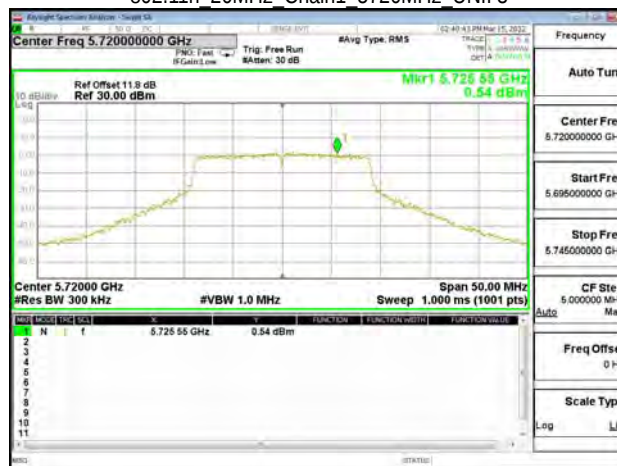
802.11n 20MHz Chain1 5720MHz UNII 2C



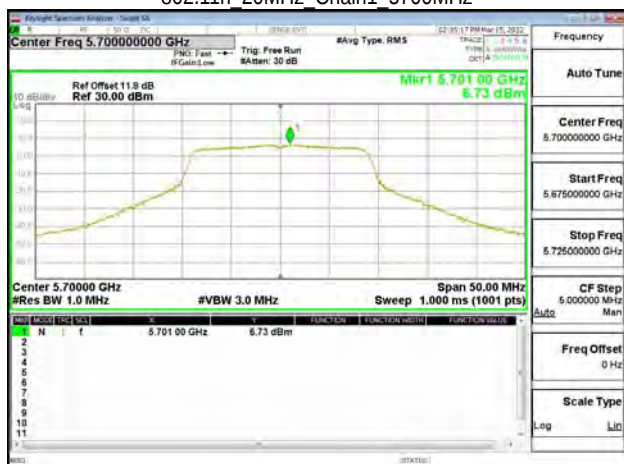
802.11n 20MHz Chain1 5580MHz



802.11n 20MHz Chain1 5720MHz UNII 3



802.11n 20MHz Chain1 5700MHz



802.11n 20MHz Chain1 5745MHz

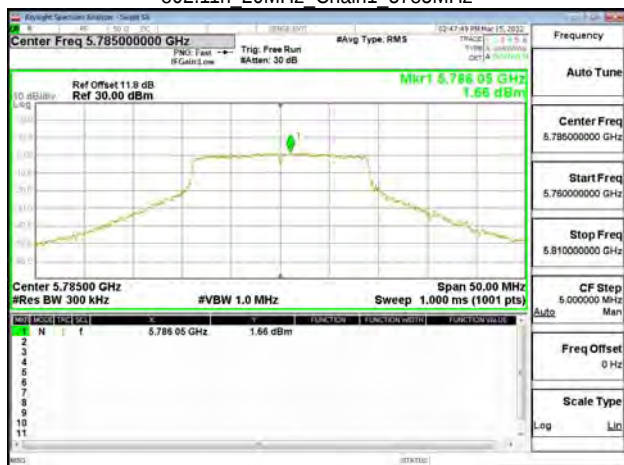


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

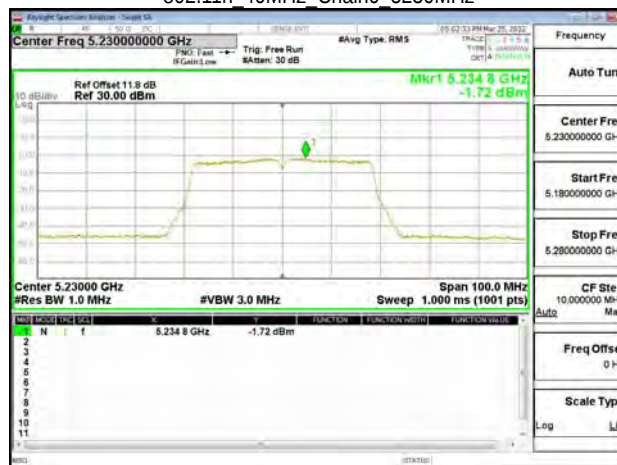
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

802.11n 20MHz Chain1 5785MHz



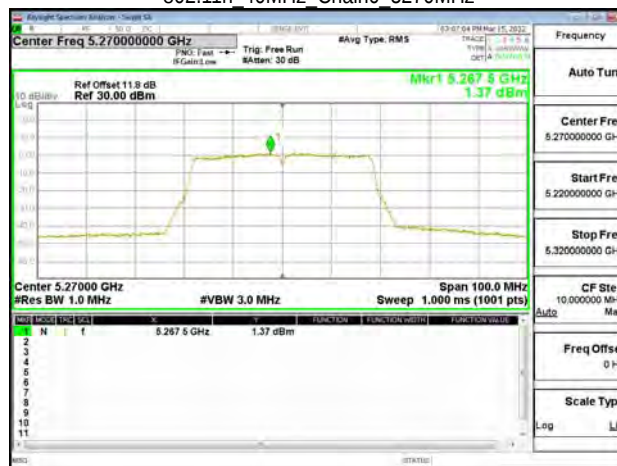
802.11n 40MHz Chain0 5230MHz



802.11n 20MHz Chain1 5825MHz



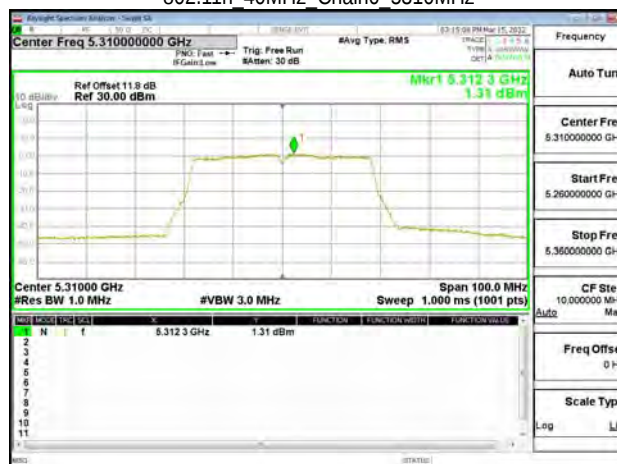
802.11n 40MHz Chain0 5270MHz



802.11n 40MHz Chain0 5190MHz



802.11n 40MHz Chain0 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.

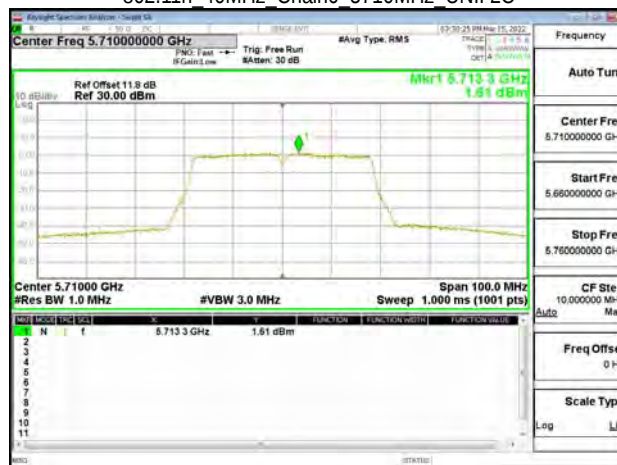
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.

802.11n 40MHz Chain0 5510MHz



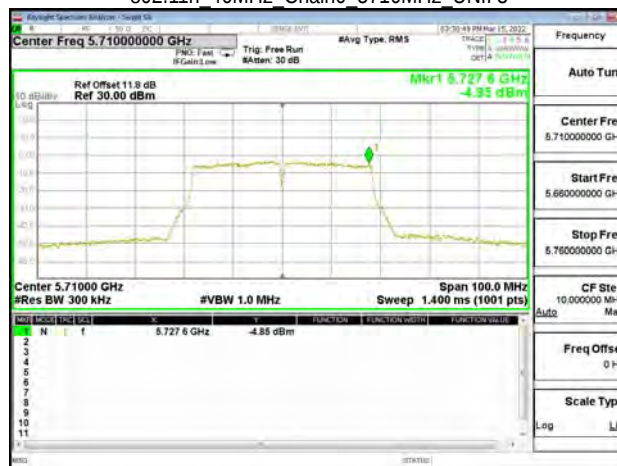
802.11n 40MHz Chain0 5710MHz UNII 2C



802.11n 40MHz Chain0 5550MHz



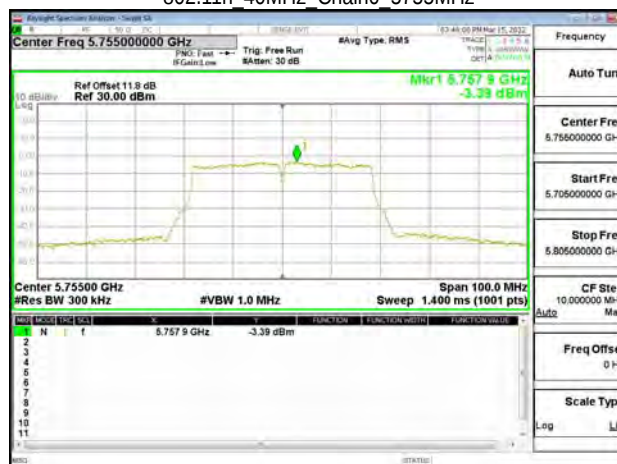
802.11n 40MHz Chain0 5710MHz UNII 3



802.11n 40MHz Chain0 5670MHz



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>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility 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.