

Page: 1 of 40

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: 2.4GHz Wireless Mouse

Brand Name: N/A

Model No.: **B258**

Model Difference: N/A

FCC ID: P5A-CB0025

Report No.: E2/2017/10045

Issue Date: Feb. 10, 2017

FCC Rule Part: §15.249

ARESON Technology Corp.

11F, No.646, Sec.5, Chongxin Rd., SanChong **Prepared for:**

Dist., New Taipei City 241, Taiwan(R.O.C.)

SGS Taiwan Ltd.

Electronics & Communication Laboratory Prepared by:

No.2, Keji 1st Rd., Guishan District, Taoyuan

City, Taiwan 333





Testing Laboratory 0513

Note: This report shall not be reproduced except in full, without the written approval of SGS Taiwan Ltd. This document may be altered or revised by SGS Taiwan Ltd. personnel only, and shall be noted in the revision section of the document.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

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

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

> 台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sqs.com



Page: 2 of 40

VERIFICATION OF COMPLIANCE

ARESON Technology Corp.

Applicant: 11F, No.646, Sec.5, Chongxin Rd., SanChong Dist., New Taipei

City 241, Taiwan (R.O.C.)

Product Name: 2.4GHz Wireless Mouse

Brand Name: N/A

Model No.: B258

Model Difference: N/A

FCC ID: P5A-CB0025

File Number: E2/2017/10045

Date of test: Jan. 12, 2017 ~ Feb. 03, 2017

Date of EUT Received: Jan. 12, 2017

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory 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 tested as described in this report is in compliance with conducted and radiated emission limits.

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

| Test By: | Val | Date | Feb. 10, 2017 | |
|--------------|---|------------|---------------|---|
| _ | Vito / Engineer | . <u>-</u> | | - |
| Prepared By: | Stefanle Yu | Date | Feb. 10, 2017 | |
| Approved By: | Stefanie / Clerk Lang Jim Chang / Asst. Manager | Date _ | Feb. 10, 2017 | |

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

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

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司 t (886-2) 2299-3279



Page: 3 of 40

Revision History

| Report Number | Revision | Description | Issue Date |
|---------------|----------|------------------------------|---------------|
| E2/2017/10045 | Rev.00 | Initial creation of document | Feb. 10, 2017 |
| | | | |
| | | | |
| | | | |

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

SGS Taiwan Ltd. No.134. WuKungRoad NewTaineii(Park WukuDistrict NewTaineii(City.Taiwan)24803/新北市五股區新北產業園區五工路 134 號

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

t (886-2) 2299-3279



Page: 4 of 40

Contents

| 1 | GENERAL INFORMATION | 5 |
|----|-----------------------------|------------|
| 2 | SYSTEM TEST CONFIGURATION | 7 |
| 3 | SUMMARY OF TEST RESULTS | 10 |
| 4 | DESCRIPTION OF TEST MODES | 10 |
| 5 | MEASUREMENT UNCERTAINTY | 12 |
| 6 | CONDUCTED EMISSION TEST | 13 |
| 7 | Radiated Emission Test | 15 |
| 8 | 20 dB Bandwidth Measurement | 34 |
| 9 | Antenna Requirement | 37 |
| РΗ | OTOGRAPHS OF SET UP | 38 |
| ΡН | OTOGRAPHS OF FUT | 4 0 |

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

**No.134, WuKungRoad, NewTaipeilndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/新北市五股區新北產業園區五工路 134 號
**No.134, WuKungRoad, NewTaipeilndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/新北市五股區新北產業園區五工路 134 號
**No.134, WuKungRoad, NewTaipeilndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/新北市五股區新北產業園區五工路 148 號
**No.134, WuKungRoad, NewTaipeilndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/新北市五股區新北產業園區五工路 148 號
**No.134, WuKungRoad, NewTaipeilndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/新北市五股區新北產業園區五工路 148 號
**No.134, WuKungRoad, NewTaipeilndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/新北市五股區新北產品配置的工作。
**No.134, WuKungRoad,



Page: 5 of 40

GENERAL INFORMATION

1.1 Product Description

General:

| Product Name: | 2.4GHz Wireless Mouse |
|-------------------|-----------------------|
| Brand Name: | N/A |
| Model No.: | B258 |
| Model Difference: | N/A |
| SW version: | N/A |
| HW version: | N/A |
| Power Supply: | 3Vdc from AAA Battery |

2.4GHz

| Transmit Power | 95.40dBuV/m (Peak) |
|----------------------|---|
| Operation Frequency: | 2405~ 2477MHz |
| Channel Number: | 16 channels |
| Channel List: | 2405MHz, 2407MHz, 2410MHz, 2414MHz, 2421MHz, 2428MHz, 2435MHz, 2437MHz, 2440MHz, 2441MHz, 2442MHz, 2449MHz, 2455MHz, 2467MHz, 2468MHz, 2477MHz |
| Modulation Type: | GFSK |
| Antenna Designation: | Internal Antenna, Gain: 0.61dBi |

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

SGS Taiwan Ltd. No.134. WuKungRoad NewTaineii(Park WukuDistrict NewTaineii(City.Taiwan)24803/新北市五股區新北產業園區五工路 134 號

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號



Page: 6 of 40

Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.249 ANSI C63.10:2013

Note:

All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333. (TAF code 0513)

FCC Registration Numbers are: 735305

Canada Registration Number: 4260A-5.

1.4 Special Accessories

There are no special accessories used while test was conducted.

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.

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



Page: 7 of 40

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 a placed on as turn 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 according to §15.207. The two LISNs provide 50 ohm/ 50uH 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 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 80 cm 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 hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

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

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

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號



Page: 8 of 40

2.5 Limitation

(1) Conducted Emission

Conducted Emission Limits is as following.

| Frequency (MHz) | Conducted | Limit (dBuV) |
|--------------------|------------|--------------|
| (IVITZ) | Quasi-Peak | Average |
| 0.15 – 0.5 | 66 - 56 | 56 - 46 |
| 0.5 – 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

(2) Radiated Emission

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following.

| Frequency | Field strength of | Field strength of | Distance (m) |
|------------------|-------------------|-------------------|--------------|
| (MHz) | Fundamental | Harmonics | |
| 902 – 928 | 50 mV/m | 500 uV/m | 3 |
| | (94dBuV/m) | (54dBuV/m) | |
| 2400 – 2483.5 | 50 mV/m | 500 uV/m | 3 |
| | (94dBuV/m) | (54dBuV/m) | |
| 5725 – 5875 | 50 mV/m | 50 mV/m 500 uV/m | |
| | (94dBuV/m) | (54dBuV/m) | |
| 24.0 – 24.25 GHz | 250 mV/m | 2500 uV/m | 3 |
| | (107.95dBuV/m) | (67.95dBuV/m) | |

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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488

台灣檢驗科技股份有限公司 t (886-2) 2299-3279



Page: 9 of 40

(3) Radiated Emission

Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits as below, whichever is the lesser attenuation.

| Frequency | Field strength Distance (m) | | Field strength at |
|-----------|-----------------------------|----|-------------------|
| (MHz) | μ V/m | | 3m dBμV/m |
| 1.705-30 | 30 | 30 | 69.54 |
| 30-88 | 100 | 3 | 40 |
| 88-216 | 150 | 3 | 43.5 |
| 216-960 | 200 | 3 | 46 |
| Above 960 | 500 | 3 | 54 |

(4) Radiated Emission

For frequencies above 1000MHz, the above field strength limits are based on average limits. The peak filed strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

Re-

Emission level in dBuV/m=20 log (uV/m)

mark:

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205 and RSS-Gen § 8.10
- 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of £15.205 and RSS-Gen § 8.10, then the general radiated emission limits in ξ 15.209 and RSS-Gen § 8.9 apply.

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

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

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

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號



Page: 10 of 40

2.6 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted (Antenna Port) Configuration



Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|----------------------------------|-----------|-------------------|------------|------------|------------|
| 1. | 2.4GHz Wireless Test Software | N/A | N/A | N/A | N/A | N/A |

SUMMARY OF TEST RESULTS

| FCC Rules Description Of Test | | Result |
|-------------------------------|----------------------------------|-----------|
| §15.207(a) | AC Power Line Conducted Emission | N/A |
| §15.249(a)(d)(e) | Radiated Emission | Compliant |
| \$15 215(a) | 20dB bandwidth | Compliant |
| §15.215(c) | Measurement | Compliant |

DESCRIPTION OF TEST MODES

4.1 Operated in 2405 ~ 2442MHz Band

16 channels are provided.

| СН | Freq. | СН | Freq. |
|----|-------|----|-------|
| 1 | 2405 | 9 | 2440 |
| 2 | 2407 | 10 | 2441 |
| 3 | 2410 | 11 | 2442 |
| 4 | 2414 | 12 | 2449 |
| 5 | 2421 | 13 | 2455 |
| 6 | 2428 | 14 | 2467 |
| 7 | 2435 | 15 | 2468 |
| 8 | 2437 | 16 | 2477 |

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

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

First Ap 表现,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。

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

SGS Taiwan Ltd.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號



Page: 11 of 40

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 and receiving mode is programmed.

RADIATED EMISSION TEST:

| RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | | |
|--------------------------------------|--------------------------------------|-------------------|------------|------------------------|-----------------|--|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT | |
| 2.4G | 1 to 16 | 1,11,16 | GFSK | 2 | MAIN | |
| | RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | |
| MODE | DATA RATE (Mbps) | ANTENNA PORT | | | | |
| 2.4G | 1 to 16 | 1,11,16 | GFSK | 2 | MAIN | |

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case H position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

| CONDUCTED TEST | | | | | | | | |
|------------------------|---------|-------------------|------|---|-----------------|--|--|--|
| MODE AVAILABLE CHANNEL | | TESTED CHANNEL | | | ANTENNA PORT | | | |
| 2.4G | 1 to 16 | 1,11,16 | GFSK | 2 | MAIN | | | |

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

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

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號



Page: 12 of 40

MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty | | |
|--|-----------------------------|--|--|
| AC Power Line Conducted Emission | +/- 2.586 dB | | |
| 20dB & 99% Bandwidth | +/- 51.33 Hz | | |
| 100 kHz Bandwidth Of Frequency Band Edges | +/- 0.84 dB | | |
| Temperature | +/- 0.65 °C | | |
| Humidity | +/- 4.6 % | | |
| DC / AC Power Source | DC= +/- 0.13%, AC= +/- 0.2% | | |

Radiated Spurious Emission:

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

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

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, and conditions for Electronic Documents at www.sgs.com/terms_and_conditions.htm and, for electronic format document, and conditions for Electronic Documents at www.sgs.com/terms_and_conditions.htm and, for electronic format document, and conditions for Electronic Documents at www.sgs.com/terms_and_conditions.htm and, for electronic format document, and conditions for Electronic Documents at www.sgs.com/terms_and_conditions.htm and, for electronic format document, and conditions for Electronic Documents at www.sgs.com/terms_and_conditions.htm and, for electronic format document, and conditions for Electronic format document is unlawful and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

| No.134

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488

台灣檢驗科技股份有限公司 t (886-2) 2299-3279



Page: 13 of 40

CONDUCTED EMISSION TEST

6.1 Standard Applicable:

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

| Frequency range | Limits dB(uV) | | |
|-----------------|------------------|----------|--|
| MHz | Quasi-peak | Average | |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 | |
| 0.50 to 5 | 56 | 46 | |
| 5 to 30 | 60 | 50 | |

Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | | | | | |
|------------------------------|--------------|-----------------------|------------------|------------|------------|--|--|--|--|
| Name of | Manufacturan | Model | Serial | Calibra- | Calibra- | | | | |
| Equipment | Manufacturer | Model | Number | tion Date | tion Due | | | | |
| EMI Test Receiver | R&S | ESCI 7 | 100950 | 12/12/2016 | 12/11/2017 | | | | |
| Coaxial Cables | N/A | N30N30-1042-1 50cm | N/A | 08/30/2016 | 08/29/2017 | | | | |
| LISN | Schwarzbeck | NSLK 8127 | 8127-648 | 03/11/2016 | 03/10/2017 | | | | |
| Test Software | Farad | EZ-EMC | Ver. SGS-03A2 | N.C.R. | N.C.R. | | | | |

6.3 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 EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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

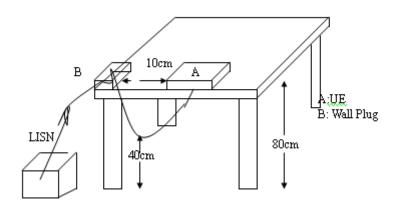
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_and_conditions.htm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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488 www.tw.sqs.com



Page: 14 of 40

6.4 Test SET-UP (Block Diagram of Configuration)



6.5 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

6.6 Measurement Result:

N/A, This device is powered by DC 3V batteries.

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/tems_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/tems_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

SGS Taiwan Ltd.



Page: 15 of 40

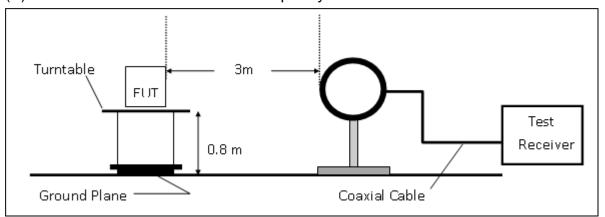
Radiated Emission Test

7.1. Measurement Procedure

- 1. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured were complete.

7.2. Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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

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

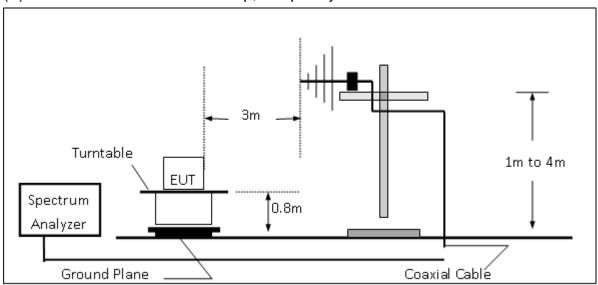
SGS Taiwan Ltd.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

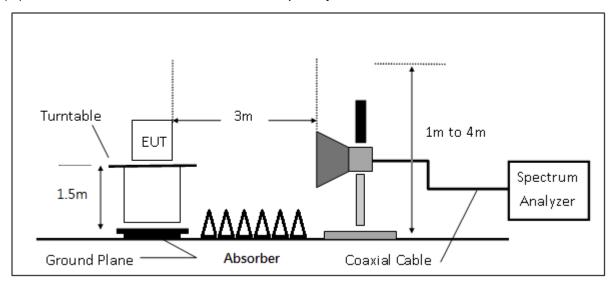


Page: 16 of 40

(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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

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

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

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

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

t (886-2) 2299-3279



Page: 17 of 40

7.3. Measurement Equipment Used:

| SGS 966 Chamber No.C | | | | | | | | |
|------------------------|-----------------|-----------------------------|---------------|-----------------------|----------------------|--|--|--|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibra- tion Date | Calibra- tion Due | | | |
| EMI Test Re- ceiver | R&S | ESU 40 | 100363 | 04/12/2016 | 04/11/2017 | | | |
| Loop Antenna | ETS-Lindgren | 6502 | 00143303 | 12/23/2016 | 12/22/2017 | | | |
| Broadband An- tenna | TESEQ | CBL 6112D | 35240 | 11/03/2016 | 11/02/2017 | | | |
| Horn Antenna | ETS-Lindgren | 3117 | 00143272 | 12/15/2016 | 12/16/2017 | | | |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 07/24/2016 | 07/23/2017 | | | |
| Pre Amplifier | EMC Instruments | EMC330 | 980096 | 12/12/2016 | 12/11/2017 | | | |
| Pre Amplifier | EMC Instruments | EMC0011830 | 980199 | 12/12/2016 | 12/11/2017 | | | |
| Pre Amplifier | R&S | SCU-18 | 10204 | 12/12/2016 | 12/11/2017 | | | |
| Pre Amplifier | R&S | SCU-26 | 100780 | 12/12/2016 | 12/11/2017 | | | |
| Coaxial Cable | Huber+Suhner | RG 214/U | 966Rx 9K-30M | 12/12/2016 | 12/11/2017 | | | |
| Coaxial Cable | Huber+Suhner | RG 214/U SUCOFLEX 104 | 966Rx 30M-3G | 12/12/2016 | 12/11/2017 | | | |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 104 | 966Rx 1G-18G | 12/12/2016 | 12/11/2017 | | | |
| Coaxial Cable | Huber+Suhner | mini 141-12 SUCOFLEX 104 | 966Rx 18G-40G | 12/12/2016 | 12/11/2017 | | | |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 104 | 966Tx 30M-18G | 12/12/2016 | 12/11/2017 | | | |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | 966Tx 18G-40G | 12/12/2016 | 12/11/2017 | | | |
| Attenuator | WOKEN | 218FS-10 | RF27 | 12/12/2016 | 12/11/2017 | | | |
| Site NSA | SGS | 966 Chamber C | SAC-C | 03/04/2016 | 03/03/2017 | | | |
| Site VSWR | SGS | 966 Chamber C | SAC-C | 03/04/2016 | 03/03/2017 | | | |
| DC Power Sup- ply | HOLA | DP-3003 | D7070035 | 05/04/2016 | 05/03/2017 | | | |
| Controller | MF | MF-7802 | N/A | N.C.R. | N.C.R. | | | |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. | | | |
| Turn Table | MF | N/A | N/A | N.C.R. | N.C.R. | | | |
| Test Software | World-Pallas | Dr. E | V 3.0 Lite | N.C.R. | N.C.R. | | | |

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

SGS Taiwan Ltd. No.134. WuKungRoad NewTaineii(Park WukuDistrict NewTaineii(City.Taiwan)24803/新北市五股區新北產業園區五工路 134 號

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488



Page: 18 of 40

7.4. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

| Where | S . | CL = Cable Attenuation Factor (Cable Loss) | | | |
|-------|------------------------|--|--|--|--|
| | RA = Reading Amplitude | AG = Amplifier Gain | | | |
| | AF = Antenna Factor | | | | |

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) - Pre Amplifier Gain(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

7.5. Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

7.6Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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

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

SGS Taiwan Ltd.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488



Page: 19 of 40

Measurement Result

Radiated Spurious Emission Measurement Result

Operation Mode: 2.4G Test Date: 2017/1/23

Fundamental Frequency: 2405 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Main CH LOW Test Engineer: Tank EUT Pol.: Measurement Antenna Pol.: Vertical Н

Note Spectum Freq. Detector Factor Actual Limit Margin Reading Level Mode FS @ 3m MHz F/H/E/S PK/QP/AV dBµV dB dBµV/m dBµV/m dB 93.22 2404.65 Peak -6.7986.43 114 -27.57 F 2404.65 60.42 -6.7953.63 94 -40.37 Average

Operation Mode: 2.4G Test Date: 2017/1/23

Fundamental Frequency: 2405 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Main CH LOW Test Engineer: Tank EUT Pol.: Measurement Antenna Pol.: Horizontal

| Freq. | Note | Detector | Spectum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @ 3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dΒμV/m | dBμV/m | dB |
| 2404.65 | F | Peak | 102.18 | -6.79 | 95.40 | 114 | -18.60 |
| 2404.65 | F | Average | 64.82 | -6.79 | 58.03 | 94 | -35.97 |

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

> t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sqs.com



Page: 20 of 40

Operation Mode: 2.4G Test Date: 2017/1/23

Fundamental Frequency: 2442 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Main CH MID Test Engineer: Tank EUT Pol.: Measurement Antenna Pol. : Vertical

| Freq. | Note | Detector Mode | Spectum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|--------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dΒμV/m | dBμV/m | dB |
| 2441.62 | F | Peak | 98.52 | -6.60 | 91.92 | 114 | -22.08 |
| 2441.62 | F | Average | 62.65 | -6.60 | 56.05 | 94 | -37.95 |

Operation Mode: 2.4G Test Date: 2017/1/23

Fundamental Frequency: 2442 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: Main CH MID Tank EUT Pol.: Н Measurement Antenna Pol.: Horizontal

| | Freq. | Note | Detector Mode | Spectum Reading Level | Factor | Actual FS | Limit @ 3m | Margin |
|---|---------|---------|------------------|--------------------------|--------|--------------|---------------|--------|
| | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| Ī | 2442.43 | F | Peak | 101.29 | -6.59 | 94.69 | 114 | -19.31 |
| | 2442.43 | F | Average | 64.52 | -6.59 | 57.93 | 94 | -36.07 |

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

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

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

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of contained the properties from exercising all their rights and solitonic under the contained the properties from exercising the exercising and policytions under the contained the exercising and policytions under the contained the exercising and policytions under the contained the exercising at the time of the strength of the exercising at the time of the exercising at the exercision at the exe Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

t (886-2) 2299-3279 www.tw.sqs.com

台灣檢驗科技股份有限公司



Page: 21 of 40

Operation Mode: 2.4G Test Date: 2017/1/23

Fundamental Frequency: 2477 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Main CH HIGH Test Engineer: Tank EUT Pol.: Measurement Antenna Pol. : Vertical

| Freq. | Note | Detector Mode | Spectum Reading Level | Factor | Actual FS | Limit @ 3m | Margin |
|---------|---------|------------------|--------------------------|--------|--------------|---------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2477.51 | F | Peak | 91.74 | -6.41 | 85.33 | 114 | -28.67 |
| 2477.51 | F | Average | 60.55 | -6.41 | 54.14 | 94 | -39.86 |

Operation Mode: 2.4G Test Date: 2017/1/23

Fundamental Frequency: 2477 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Main CH HIGH Test Engineer: Tank EUT Pol.: Measurement Antenna Pol.: Horizontal

| Freq. | Note | Detector Mode | Spectum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|--------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2477.49 | F | Peak | 101.03 | -6.41 | 94.61 | 114 | -19.39 |
| 2477.49 | F | Average | 64.41 | -6.41 | 57.99 | 94 | -36.01 |

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

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

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

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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sqs.com



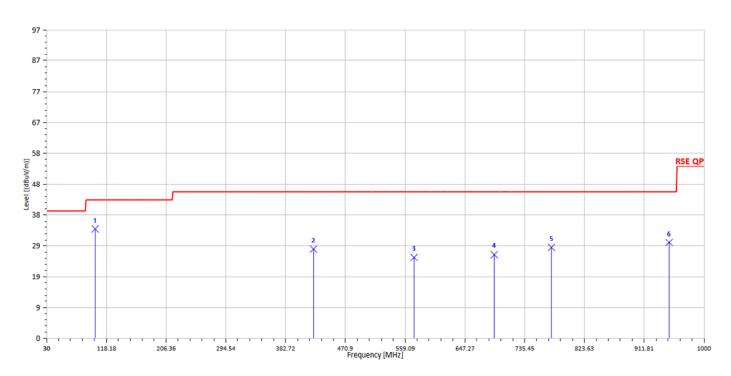
Page: 22 of 40

Radiated Spurious Emission Measurement Result

Operation Mode: 2.4G Test Date: 2017/1/23

2405 MHz Fundamental Frequency: Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH LOW Test Engineer: EUT Pol.: Measurement Antenna Pol.: Vertical



| Freq. | Note | Detector | Spectum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 101.78 | S | Peak | 55.56 | -21.13 | 34.43 | 43.5 | -9.07 |
| 423.82 | S | Peak | 40.35 | -12.26 | 28.09 | 46 | -17.91 |
| 572.23 | S | Peak | 34.96 | -9.47 | 25.49 | 46 | -20.51 |
| 690.57 | S | Peak | 34.25 | -7.88 | 26.36 | 46 | -19.64 |
| 774.96 | S | Peak | 35.11 | -6.48 | 28.63 | 46 | -17.37 |
| 948.59 | S | Peak | 34.84 | -4.62 | 30.22 | 46 | -15.78 |

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

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

First Ap 表现,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。

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

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

t (886-2) 2299-3279

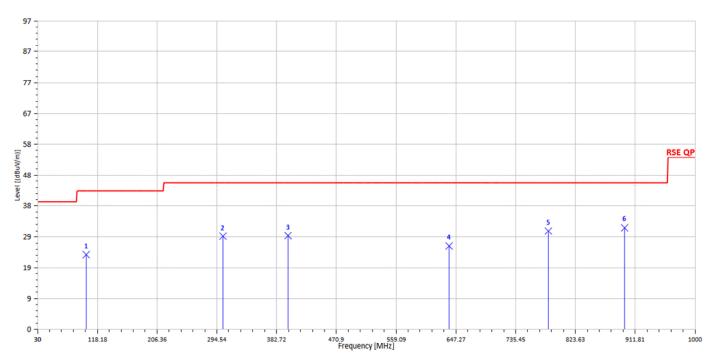


Page: 23 of 40

Operation Mode: 2.4G Test Date: 2017/1/23

Fundamental Frequency: 2405 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH LOW Test Engineer: Tank EUT Pol.: Measurement Antenna Pol.: Horizontal



| Freq. | Note | Detector | Spectum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 101.78 | S | Peak | 44.61 | -21.13 | 23.48 | 43.5 | -20.02 |
| 303.54 | S | Peak | 44.57 | -15.27 | 29.30 | 46 | -16.70 |
| 399.57 | S | Peak | 42.04 | -12.56 | 29.48 | 46 | -16.52 |
| 637.22 | S | Peak | 34.61 | -8.32 | 26.29 | 46 | -19.71 |
| 783.69 | S | Peak | 37.68 | -6.74 | 30.94 | 46 | -15.06 |
| 896.21 | S | Peak | 37.36 | -5.38 | 31.98 | 46 | -14.02 |

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

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

First Ap 表现,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。

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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 www.tw.sgs.com

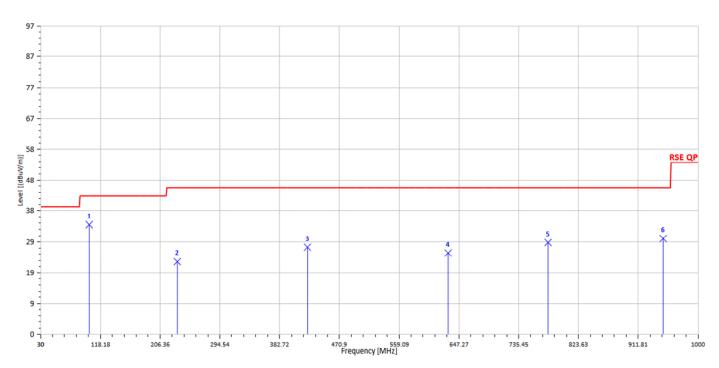


Page: 24 of 40

2.4G Operation Mode: Test Date: 2017/1/23

Fundamental Frequency: 2442 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH MID Test Engineer: Tank EUT Pol.: Measurement Antenna Pol.: Vertical



| Freq. | Note | Detector | Spectum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 101.78 | S | Peak | 55.57 | -21.13 | 34.43 | 43.5 | -9.07 |
| 231.76 | S | Peak | 40.46 | -17.58 | 22.88 | 46 | -23.12 |
| 423.82 | S | Peak | 39.69 | -12.26 | 27.44 | 46 | -18.56 |
| 631.40 | S | Peak | 34.28 | -8.67 | 25.61 | 46 | -20.39 |
| 778.84 | S | Peak | 35.54 | -6.62 | 28.91 | 46 | -17.09 |
| 948.59 | S | Peak | 34.78 | -4.62 | 30.16 | 46 | -15.84 |

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

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

First Ap 表现,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。

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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

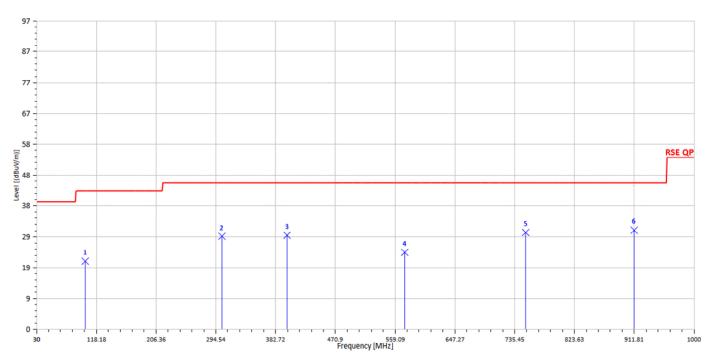


Page: 25 of 40

2.4G Operation Mode: Test Date: 2017/1/23

Fundamental Frequency: 2442 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH MID Test Engineer: Tank EUT Pol.: Measurement Antenna Pol.: Horizontal



| Freq. | Note | Detector | Spectum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 101.78 | S | Peak | 42.58 | -21.13 | 21.45 | 43.5 | -22.05 |
| 303.54 | S | Peak | 44.56 | -15.27 | 29.29 | 46 | -16.71 |
| 399.57 | S | Peak | 42.17 | -12.56 | 29.61 | 46 | -16.39 |
| 573.20 | S | Peak | 33.62 | -9.40 | 24.22 | 46 | -21.78 |
| 751.68 | S | Peak | 37.21 | -6.72 | 30.49 | 46 | -15.51 |
| 911.73 | S | Peak | 36.41 | -5.21 | 31.20 | 46 | -14.80 |

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

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

First Ap 表现,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。

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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

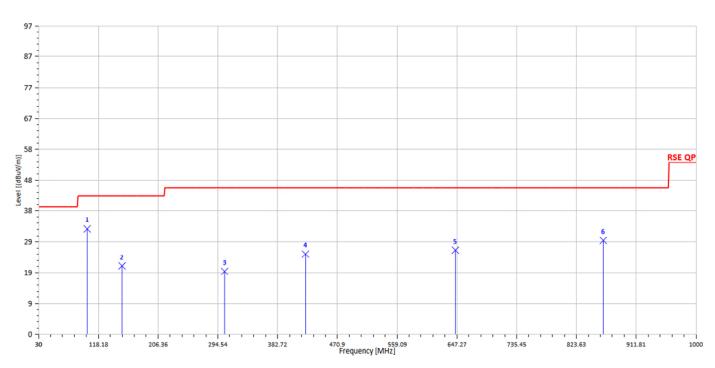


Page: 26 of 40

Operation Mode: 2.4G Test Date: 2017/1/23

Fundamental Frequency: 2477 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH HIGH Test Engineer: Tank EUT Pol.: Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector | Spectum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|----------------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 101.78 | S | Peak | 54.30 | -21.13 | 33.17 | 43.5 | -10.33 |
| 153.19 | S | Peak | 37.28 | -15.73 | 21.55 | 43.5 | <i>-</i> 21.95 |
| 304.51 | S | Peak | 35.05 | -15.24 | 19.81 | 46 | -26.19 |
| 423.82 | S | Peak | 37.52 | -12.26 | 25.26 | 46 | -20.74 |
| 644.98 | S | Peak | 34.53 | -8.02 | 26.51 | 46 | -19.49 |
| 863.23 | S | Peak | 35.72 | -6.19 | 29.53 | 46 | -16.47 |

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

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

First Ap 表现,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。

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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

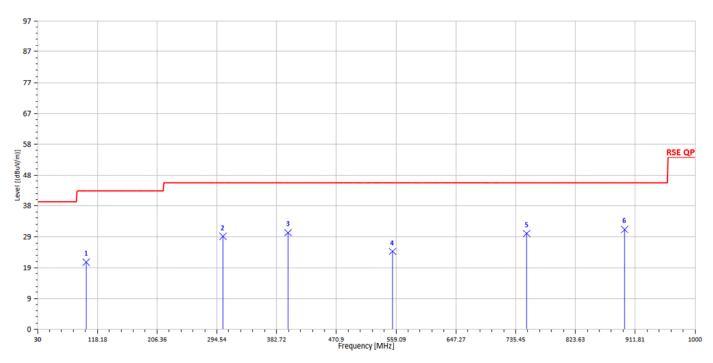


Page: 27 of 40

Operation Mode: 2.4G Test Date: 2017/1/23

Fundamental Frequency: 2477 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH HIGH Test Engineer: Tank EUT Pol.: Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector | Spectum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 101.78 | S | Peak | 42.29 | -21.13 | 21.15 | 43.5 | -22.35 |
| 303.54 | S | Peak | 44.52 | -15.27 | 29.25 | 46 | -16.75 |
| 399.57 | S | Peak | 42.99 | -12.56 | 30.43 | 46 | -15.57 |
| 553.80 | S | Peak | 34.91 | -10.40 | 24.51 | 46 | -21.49 |
| 751.68 | S | Peak | 36.88 | -6.72 | 30.15 | 46 | -15.85 |
| 896.21 | S | Peak | 36.84 | -5.38 | 31.46 | 46 | -14.54 |

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

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

First Ap 表现,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。

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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

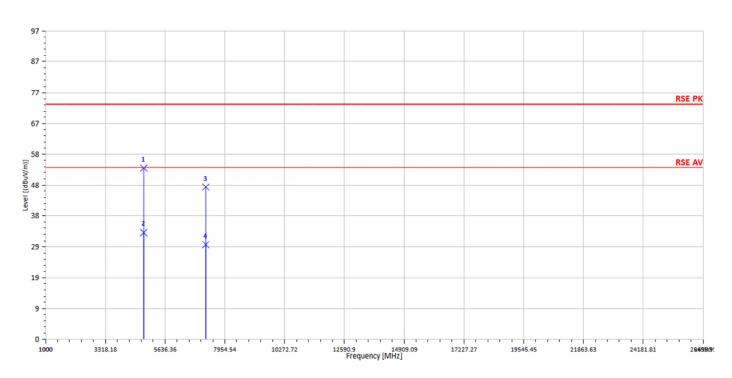


Page: 28 of 40

Operation Mode: 2.4G Test Date: 2017/1/23

Fundamental Frequency: 2405 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH LOW Test Engineer: Tank EUT Pol.: Measurement Antenna Pol.: Vertical



| Freq. | Note | Detector | Spectum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @ 3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 4810.00 | Н | Peak | 54.96 | -1.12 | 53.84 | 74 | -20.16 |
| 4810.00 | Н | Average | 34.66 | -1.12 | 33.54 | 54 | -20.46 |
| 7215.00 | Н | Peak | 42.37 | 5.48 | 47.85 | 74 | -26.15 |
| 7215.00 | Н | Average | 24.32 | 5.48 | 29.80 | 54 | -24.20 |

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

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

First Ap 表现,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。

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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

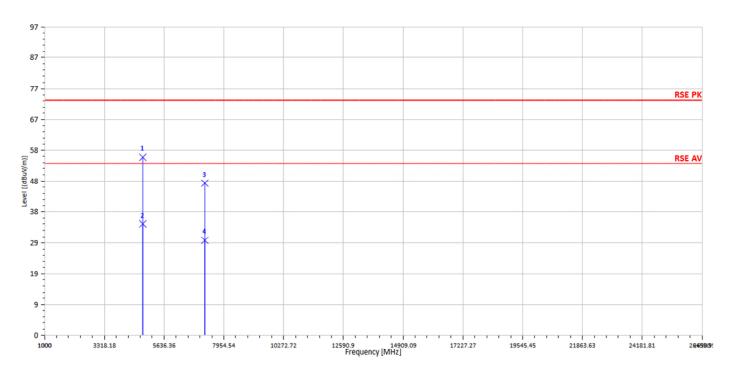


Page: 29 of 40

Operation Mode: 2.4G Test Date: 2017/1/23

Fundamental Frequency: 2405 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH LOW Test Engineer: Tank EUT Pol.: Measurement Antenna Pol.: Horizontal



| Freq. | Note | Detector | Spectum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @ 3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 4810.00 | Н | Peak | 57.10 | -1.12 | 55.98 | 74 | -18.02 |
| 4810.00 | Н | Average | 36.08 | -1.12 | 34.95 | 54 | -19.05 |
| 7215.00 | Н | Peak | 42.33 | 5.48 | 47.81 | 74 | -26.19 |
| 7215.00 | Н | Average | 24.43 | 5.48 | 29.91 | 54 | -24.09 |

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

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

First Ap 表现,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。

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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

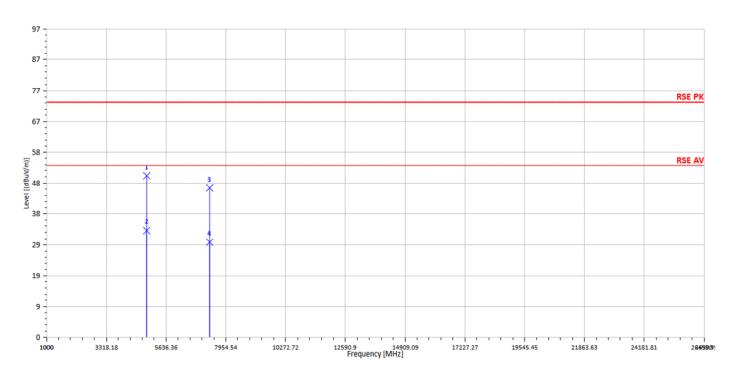


Page: 30 of 40

2.4G Operation Mode: Test Date: 2017/1/23

Fundamental Frequency: 2442 MHz Temp. / Humi.: 22.7 deg_C/57RH

Operation Band: Tx CH MID Test Engineer: Tank EUT Pol.: Measurement Antenna Pol.: Vertical



| Freq. | Note | Detector | Spectum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @ 3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 4884.00 | Н | Peak | 51.46 | -0.69 | 50.77 | 74 | -23.23 |
| 4884.00 | Н | Average | 34.22 | -0.69 | 33.53 | 54 | -20.47 |
| 7326.00 | Н | Peak | 40.81 | 6.12 | 46.93 | 74 | -27.07 |
| 7326.00 | Н | Average | 23.84 | 6.12 | 29.96 | 54 | -24.04 |

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

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

First Ap 表现,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。

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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

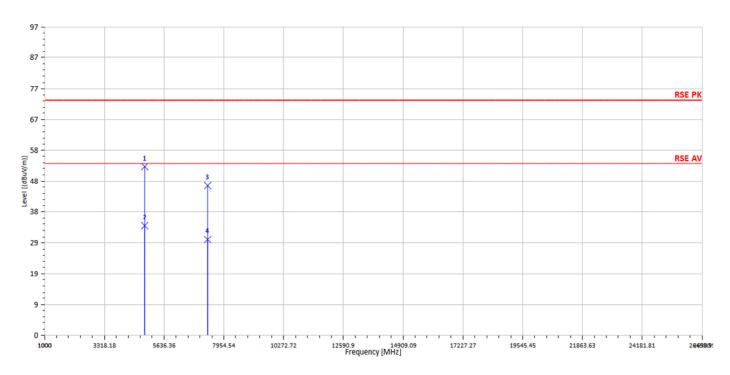


Page: 31 of 40

2.4G Operation Mode: Test Date: 2017/1/23

Fundamental Frequency: 2442 MHz Temp. / Humi.: 22.7 deg_C/57RH

Operation Band: Tx CH MID Test Engineer: Tank EUT Pol.: Measurement Antenna Pol.: Horizontal



| Freq. | Note | Detector | Spectum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @ 3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 4884.00 | Н | Peak | 53.67 | -0.69 | 52.99 | 74 | -21.01 |
| 4884.00 | Н | Average | 35.10 | -0.69 | 34.41 | 54 | -19.59 |
| 7326.00 | Н | Peak | 40.88 | 6.12 | 47.00 | 74 | -27.00 |
| 7326.00 | Н | Average | 24.03 | 6.12 | 30.15 | 54 | -23.85 |

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

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

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

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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

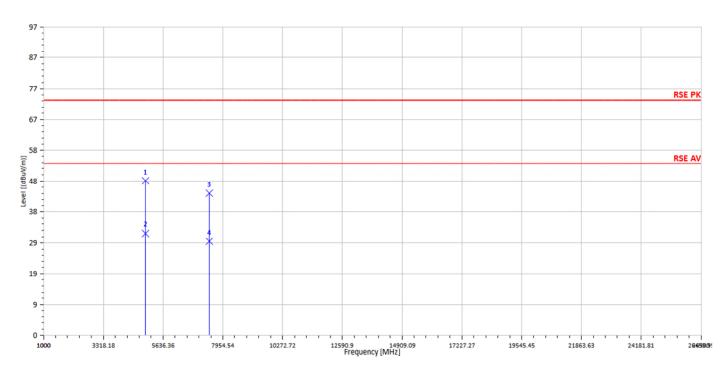


Page: 32 of 40

Operation Mode: 2.4G Test Date: 2017/1/23

Fundamental Frequency: 2477 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH HIGH Test Engineer: Tank EUT Pol.: Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector | Spectum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @ 3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 4954.00 | Н | Peak | 49.23 | -0.65 | 48.58 | 74 | -25.42 |
| 4954.00 | Н | Average | 32.72 | -0.65 | 32.06 | 54 | -21.94 |
| 7431.00 | Н | Peak | 38.50 | 6.19 | 44.68 | 74 | -29.32 |
| 7431.00 | Н | Average | 23.42 | 6.19 | 29.61 | 54 | -24.39 |

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

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

First Ap 表现,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。

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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

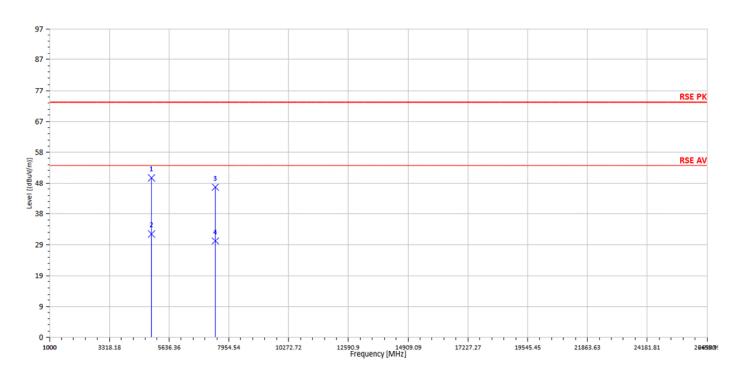


Page: 33 of 40

Operation Mode: 2.4G Test Date: 2017/1/23

Fundamental Frequency: 2477 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH HIGH Test Engineer: Tank EUT Pol.: Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector | Spectum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @ 3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 4954.00 | Н | Peak | 50.77 | -0.65 | 50.12 | 74 | -23.88 |
| 4954.00 | Н | Average | 33.18 | -0.65 | 32.52 | 54 | -21.48 |
| 7431.00 | Н | Peak | 40.96 | 6.19 | 47.15 | 74 | -26.85 |
| 7431.00 | Н | Average | 24.17 | 6.19 | 30.36 | 54 | -23.64 |

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

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

First Ap 表现,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。

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

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 www.tw.sqs.com



Page: 34 of 40

20 dB Bandwidth Measurement

8.1 Measurement Procedure

- The EUT was placed on a turn table which is 0.8m above ground plane.
- Set ETU normal operating mode.
- 3. Set SPA Center Frequency = fundamental frequency, RBW = 100kHz, VBW = 300kHz, Span = 5MHz.
- 4. Set SPA Max hold. Mark peak, -20dB.

8.2 Test SET-UP (Block Diagram of Configuration)

Refer to section 7.2 for the plot.

8.3 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | | | | |
|------------------------------|--------------|--------------------|------------|-------------|-------------|--|--|--|
| Name of | Manufacturer | Model | Serial | Calibration | Calibration | | | |
| Equipment | | Model | Number | Date | Due | | | |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 | | | |
| Power Meter | Anritsu | ML2496A | 1326001 | 06/23/2016 | 06/22/2017 | | | |
| Power Sensor | Anritsu | MA2411B | 1315048 | 06/23/2016 | 06/22/2017 | | | |
| Power Sensor | Anritsu | MA2411B | 1315049 | 06/23/2016 | 06/22/2017 | | | |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A195 C | RF01 | 12/12/2016 | 12/11/2017 | | | |
| DC Block | PASTERNACK | PE8210 | RF29 | 12/12/2016 | 12/11/2017 | | | |
| Splitter | RF-LAMBAD | RFLT2W1G18G | RF35 | 12/12/2016 | 12/11/2017 | | | |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2016 | 12/11/2017 | | | |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/04/2016 | 05/03/2017 | | | |

8.4 Measurement Results:

| | Frequency (MHz) | 20dB Bandwidth (kHz) | |
|---------|--------------------|----------------------------|--|
| CH Low | 2405 | 4057 | |
| CH Mid | 2442 | 3957 | |
| CH High | 2477 | 3792 | |

Refer to attached data chart.

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

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

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

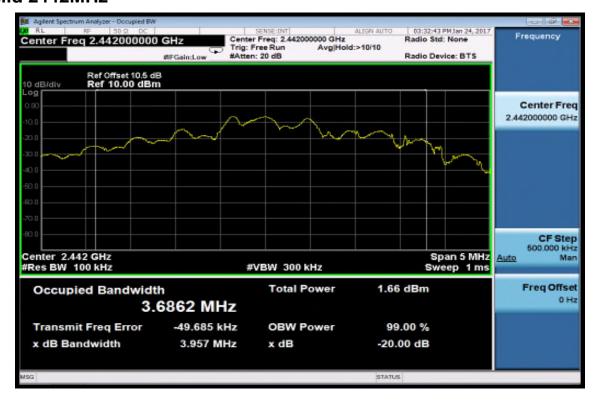


Page: 35 of 40

CH Low 2405MHz



CH Mid 2442MHz



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

t (886-2) 2299-3279

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

First Ap 表现,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。

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

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號



Page: 36 of 40

CH High 2477MHz



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

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sqs.com



Page: 37 of 40

Antenna Requirement

9.1 Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

9.2 Antenna Connected Construction:

An embedded-in antenna design is used.

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power 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.

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

台灣檢驗科技股份有限公司 t (886-2) 2299-3279

SGS Taiwan Ltd.

f (886-2) 2298-0488

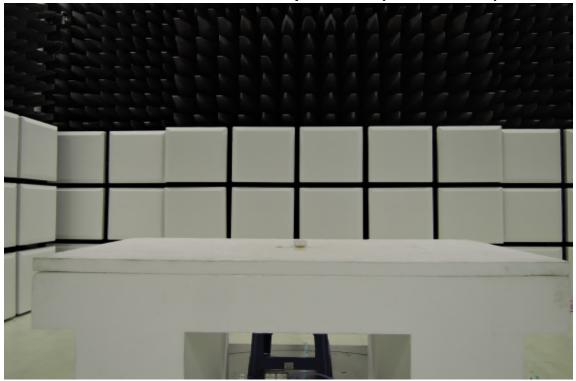
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 www.tw.sqs.com



Page: 38 of 40

PHOTOGRAPHS OF SET UP

Radiated Emission Set up Photos (Below 1GHz)





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

SGS Taiwan Ltd. No.134. WuKungRoad NewTaineii(Park WukuDistrict NewTaineii(City.Taiwan)24803/新北市五股區新北產業園區五工路 134 號

SGS Taiwan Ltd.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號



Page: 39 of 40

Radiated Emission Set up Photos (Above 1GHz)





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

SGS Taiwan Ltd. No.134. WuKungRoad NewTaineii(Park WukuDistrict NewTaineii(City.Taiwan)24803/新北市五股區新北產業園區五工路 134 號

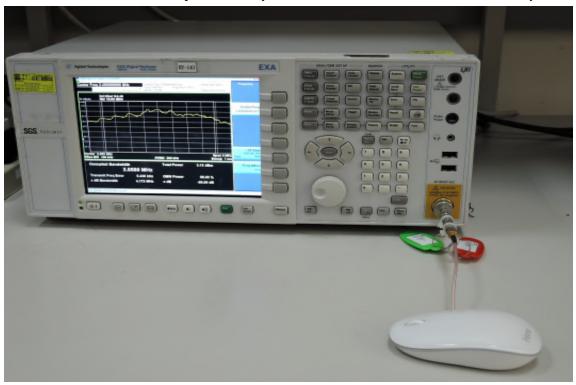
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd. t (886-2) 2299-3279

www.tw.sgs.com



Page: 40 of 40

Conducted Setup Photo (Measurement at Antenna Port)



PHOTOGRAPHS OF EUT

Please refer to the attached file(EUT Photo)

~ End of 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. 除非另有规明,此概告结果僅對测试之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. | No.134. WuKunqRoad. NewTaineiindustrialPark. WukunDistrict NewTaineiiCity Taiwan24803/\$\text{\$\text{\$\text{\$w\$}\$}\$ + \$\text{\$\text{\$\text{\$\text{\$w\$}\$}}\$ = \$\text{\$\t

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司