

Page 1 of 129

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C AND RSS 247 REQUIREMENT

OF

Product Name: WLAN/BT USB Module

Brand Name: WIESON

FCC Model No.: WM2020CU, WM2020CU-XX (X=0~9 or A~Z)

IC Model No.: **WM2020CU**

Model Difference: Different models for market segmentation.

2AAK6WM2020CU FCC ID:

IC: 20126-WM2020CU

Report No.: ER/2017/20139-02

Issue Date: Sep. 02, 2019

FCC Rule Part: §15.247, Cat: DSS

IC Rule: RSS-247 issue 2 Feb. 2017

WIESON INTERNATIONAL CO., LTD.

Prepared for: 6F, No.276-1, Sec.1, Datong Rd., Xizhi Dist., New

Taipei City 221, Taiwan, R.O.C.

SGS Taiwan Ltd.

Electronics & Communication Laboratory

No.134, Wu Kung Road, New Taipei Industrial Prepared by:

Park, Wuku District, New Taipei City, Taiwan

24803





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.

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

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 iurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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 www.tw.sgs.com

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488



Page 2 of 129

VERIFICATION OF COMPLIANCE

WIESON INTERNATIONAL CO., LTD.

Applicant for: 6F, No.276-1, Sec.1, Datong Rd., Xizhi Dist., New Taipei City 221,

Taiwan, R.O.C.

Product Name: WLAN/BT USB Module

Brand Name: WIESON

FCC Model No.: WM2020CU, WM2020CU-XX (X=0~9 or A~Z)

IC Model No.: WM2020CU

Model Difference: Different models for market segmentation.

FCC ID: 2AAK6WM2020CU IC: 20126-WM2020CU **Report Number:** ER/2017/20139-02

Date of test: Mar. 09, 2017 ~ Mar. 22, 2017

Date of EUT Received: Mar. 09, 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: Date: Sep. 02, 2019 Tin Lin / Engineer Prepared By: Sep. 02, 2019 Date: Violetta Tang / Clerk Approved By: Date: Sep. 02, 2019 Jim Chang / Asst. Manager

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at 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,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 3 of 129

Revision History

| Report Number | Revision | Description | Effected Page | Issue Date | Revised By |
|------------------|----------|--|------------------|---------------|---------------|
| ER/2017/20139 | Rev.00 | Initial creation of document | All | Mar. 29, 2017 | Violetta Tang |
| ER/2017/20139-02 | Rev.01 | Add section 1.6 remark and conduction data updated | Page 7, 17, 18 | Sep. 02, 2019 | Violetta Tang |

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

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

台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

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



Page 4 of 129

Contents

| 1 | GENERAL INFORMATION | 5 |
|----|--|-----|
| 2 | SYSTEM TEST CONFIGURATION | 8 |
| 3 | SUMMARY OF TEST RESULTS | 10 |
| 4 | DESCRIPTION OF TEST MODES | 11 |
| 5 | MEASUREMENT UNCERTAINTY | 14 |
| 6 | CONDUCTED EMISSION TEST | 15 |
| 7 | PEAK OUTPUT POWER MEASUREMENT | 19 |
| 8 | 20dB & 99% BANDWIDTH MEASUREMENT | 23 |
| 9 | CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT | 36 |
| 10 | RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT | 48 |
| 11 | FREQUENCY SEPARATION | 109 |
| 12 | NUMBER OF HOPPING FREQUENCY | 112 |
| 13 | TIME OF OCCUPANCY (DWELL TIME) | 115 |
| 14 | ANTENNA REQUIREMENT | 129 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at 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, NewTaipeilndustrialPark, Wukunistrict, NewTaipeiCity, Taiwan24803/新北市五股區新北產業園區五工路 134 號

1886 2) 2298 0488

Wawan the season.

1986 2) 2298 0488

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488



Page 5 of 129

GENERAL INFORMATION

1.1 Product description

General:

| WLAN/BT USB Module |
|---|
| WIESON |
| WM2020CU, WM2020CU-XX (X=0~9 or A~Z) |
| WM2020CU |
| Different models for market segmentation. |
| v1.0 / v1.0 |
| N/A / N/A |
| N/A |
| N/A |
| 3.3V from DC Power Supply |
| |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. 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

www.tw.sgs.com

台灣檢驗科技股份有限公司

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



Page 6 of 129

Bluetooth BR+EDR:

| Bluetooth Version | BT V4.2 (dual mode) | | |
|----------------------|---|--|--|
| Channel number: | 79 channels | | |
| Modulation type: | GFSK + π/4DQPSK + 8DPSK | | |
| Transmit Power: | 8.79dBm | | |
| Frequency Range: | 2.402GHz – 2.480GHz | | |
| Antenna Designation: | Dipole Antenna, Antenna Gain: 1.6dBi, Part No.: N/A Supplier: WIESON INTERNATIONAL CO., LTD. PCB Antenna, Antenna Gain: 3.64dBi, Part No.: N/A Supplier: PEGATRON PCB Antenna, ANT1 Gain: 4.51dBi / ANT2 Gain: 3.77dBi, Part No.: 290-30552 / 290-30553 Supplier: PEGATRON PCB Antenna, Antenna Gain: 3.8dBi, Part No.: ALX17P-221XX0-01, Supplier: LYNwave PCB Antenna: ANT1 Gain: 3.13dBi / ANT2 Gain: 3.08dBi Part No.: ALX17P-221XX1-A, Supplier: LYNwave | | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此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/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.

SCSChairman** In the 142 MWW. Interview New Taingilicity Elegate With District New Taingilicity Taiwan 24803 ** the Taiwan

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 7 of 129

1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC Public Notice DA 00-705 Measurement Guidelines

Canada RSS-247 issue 2 Feb. 2017

Canada RSS-Gen Issue 4:2014

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.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513)

FCC Designation numbers are: TW0001

ISED#: 4620A.

1.4 Special Accessories

There is no special accessory used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

1.6 Remarks

The original test report ER/2017/20139 will be withdrawn with this test report ER/2017/20139-02 and is no longer valid when the withdrawal occurred.

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

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 iurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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.sgs.com



Page 8 of 129

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 plan. 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 0.8 m above the reference ground plan. 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.

The spectrum analyzer offset is derived from RF cable loss 1dB.

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

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,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd. www.tw.sgs.com



Page 9 of 129

2.5 Configuration of Tested System

Fig. 2-1 Radiated & AC Power Line & Conducted (Antenna Port) Emission

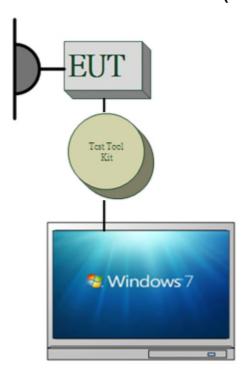


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|----------------------------|-----------|----------------|------------|------------|-------------------|
| 1 | Bluetooth Test Software | N/A | N/A | N/A | N/A | N/A |
| 2. | Notebook | Lenovo | L420 | LR-7HXZA | Shielded | Un-shielded |
| 3. | Test Tool Kit | N/A | N/A | N/A | N/A | N/A |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance 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.sgs.com



Page 10 of 129

SUMMARY OF TEST RESULTS

| FCC Rules | IC Rules | Description Of Test | Result |
|-----------------------|----------------------------------|---|-----------|
| §15.207(a) | RSS-Gen §8.8 | AC Power Line Conducted Emission | Compliant |
| §15.247(b)(1) | RSS-247 §5.4 (2) | Peak Output Power | Compliant |
| §15.247(a)(1) | RSS-247 §5.1 (1) RSS-Gen §6.6 | 20dB & 99% Bandwidth | Compliant |
| §15.247(d) | RSS-247 §5.5 | Conducted Band Edge and Spurious Emission | Compliant |
| §15.247(d) | RSS-247 §5.5 | Radiated Band Edge and Spurious Emission | Compliant |
| §15.247(a)(1) | RSS-247 §5.1 (2) | Frequency Separation | Compliant |
| §15.247(a)(1)(iii) | RSS-247 §5.1 (4) | Number of hopping frequency | Compliant |
| §15.247(a)(1)(iii) | RSS-247 §5.1 (4) | Time of Occupancy | Compliant |
| §15.203 §15.247(b) | RSS- Gen §8.3 | Antenna Requirement | Compliant |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結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 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,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/

No.134,WuKungRoad,NewTaipeilndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/

No.134,WuKungRoad,NewTaipeilndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/

No.134,WuKungRoad,NewTaipeilndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/

No.134,WuKungRoad,NewTaipeilndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/

No.134,WuKungRoad,NewTaipeilndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/

**No.134,WuKungRoad,NewTaipeilndustrialPark,WukuDistr

f (886-2) 2298-0488



Page 11 of 129

DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

| CH | FREQUENCY | CH | FREQUENCY | СН | FREQUENCY | СН | FREQUENCY |
|----|-----------|----|-----------|----|-----------|----|-----------|
| 0 | 2402 MHz | 20 | 2422 MHz | 40 | 2442 MHz | 70 | 2462 MHz |
| 1 | 2403 MHz | 21 | 2423 MHz | 41 | 2443 MHz | 71 | 2463 MHz |
| 2 | 2404 MHz | 22 | 2424 MHz | 42 | 2444 MHz | 72 | 2464 MHz |
| 3 | 2405 MHz | 23 | 2425 MHz | 43 | 2445 MHz | 73 | 2465 MHz |
| 4 | 2406 MHz | 24 | 2426 MHz | 44 | 2446 MHz | 74 | 2466 MHz |
| 5 | 2407 MHz | 25 | 2427 MHz | 45 | 2447 MHz | 75 | 2467 MHz |
| 6 | 2408 MHz | 26 | 2428 MHz | 46 | 2448 MHz | 76 | 2468 MHz |
| 7 | 2409 MHz | 27 | 2429 MHz | 47 | 2449 MHz | 77 | 2469 MHz |
| 8 | 2410 MHz | 28 | 2430 MHz | 48 | 2450 MHz | 78 | 2470 MHz |
| 9 | 2411 MHz | 29 | 2431 MHz | 49 | 2451 MHz | 79 | 2471 MHz |
| 10 | 2412 MHz | 30 | 2432 MHz | 50 | 2452 MHz | 70 | 2472 MHz |
| 11 | 2413 MHz | 31 | 2433 MHz | 51 | 2453 MHz | 71 | 2473 MHz |
| 12 | 2414 MHz | 32 | 2434 MHz | 52 | 2454 MHz | 72 | 2474 MHz |
| 13 | 2415 MHz | 33 | 2435 MHz | 53 | 2455 MHz | 73 | 2475 MHz |
| 14 | 2416 MHz | 34 | 2436 MHz | 54 | 2456 MHz | 74 | 2476 MHz |
| 15 | 2417 MHz | 35 | 2437 MHz | 55 | 2457 MHz | 75 | 2477 MHz |
| 16 | 2418 MHz | 36 | 2438 MHz | 56 | 2458 MHz | 76 | 2478 MHz |
| 17 | 2419 MHz | 37 | 2439 MHz | 57 | 2459 MHz | 77 | 2479 MHz |
| 18 | 2420 MHz | 38 | 2440 MHz | 58 | 2460 MHz | 78 | 2480 MHz |
| 19 | 2421 MHz | 39 | 2441 MHz | 59 | 2461 MHz | | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果僅對測試之樣品負責,同時此樣品僅保留的50 条。本株全未经市分下,不可部份複製。
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 unawful and offenders may be prosecuted to the full less extent of the less. 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



Page 12 of 129

4.2 The Worst Test Modes and Channel Details

- The EUT has been tested under operating condition.
- Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- Investigation has been done on all the possible configurations for searching the worst case.

| RADIATED TEST | | | | |
|---|-----------|---------------|-------------------|------------|
| | Radiated | Emission Test | (BELOW 1 GHz) (Wo | orst case) |
| MODE | AVAILABLE | TESTED | MODULATION | PACKET |
| MODE | CHANNEL | CHANNEL | MODULATION | TYPE |
| Bluetooth | 0 to 78 | 39 | 8-DPSK | 3DH5 |
| Radiated Emission Test (ABOVE 1 GHz) (Worst case) | | | | |
| MODE | AVAILABLE | TESTED | MODULATION | PACKET |
| MODE | CHANNEL | CHANNEL | MODULATION | TYPE |
| Bluetooth | 0 to 78 | 0,39,78 | 8-DPSK | 3DH5 |
| Band Edge | | | | |
| Bluetooth | 0 to 78 | 0,78 | GFSK | DH5 |
| Bluetooth | 0 to 78 | 0,78 | 8-DPSK | 3DH5 |

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

Pre-scanned was done on Dipole antenna & PCB antenna set 290-30552 / 290-30553, ALX17P-221XX0-01 and ALX17P-221XX1-A. The Dipole & PCB antenna 290-30552 results higher emission at 2.4GHz. Therefore, the completed set of measurement was done on both antennas to be presented on this test report.

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

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

台灣檢驗科技股份有限公司



Page 13 of 129

| | ANTENNA PORT CONDUCTED TEST | | | | | |
|-----------|------------------------------------|-------------------|-------------------|----------------|--|--|
| | Peak Output Power, 20dB Band Width | | | | | |
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | PACKET TYPE | | |
| | 0 to 78 | 0,39,78 | GFSK | DH5 | | |
| Bluetooth | 0 to 78 | 0,39,78 | π/4-DQPSK | DH5 | | |
| | 0 to 78 | 0,39,78 | 8-DPSK | DH5 | | |
| | | Band Edge & C | onducted Emission | | | |
| Bluetooth | 0 to 78 | 0,78 | GFSK | DH5 | | |
| Bluetooth | 0 to 78 | 0,78 | 8-DPSK | 3DH5 | | |
| | | Frequenc | cy Separation | | | |
| Bluetooth | 0 to 78 | 0,1,2 | 8-DPSK | 3DH5 | | |
| | | Number of he | opping frequency | | | |
| Bluetooth | 0 to 78 | 0 to 78 | 8-DPSK | 3DH5 | | |
| | Time of Occupancy (Dwell time) | | | | | |
| Bluetooth | 0 to 78 | 0,39,78 | GFSK | DH1/DH3/DH5 | | |
| Bluetooth | 0 to 78 | 39 | π/4-DQPSK | DH1/DH3/DH5 | | |
| Bluetooth | 0 to 78 | 39 | 8-DPSK | DH1/DH3/DH5 | | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at 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.

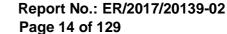
SGS Taiwan Ltd.

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

1886 2) 2298 0488

Wawan the season.

1986 2) 2298 0488





MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|---|-----------------------------|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| Peak Output Power | +/- 0.84 dB |
| 20dB Bandwidth | +/- 51.33 Hz |
| 100 KHz Bandwidth Of Frequency Band Edges | +/- 0.84 dB |
| Frequency Separation | +/- 51.33 Hz |
| Number of hopping frequency | +/- 51.33 Hz |
| Time of Occupancy | +/- 51.33 Hz |
| Temperature | +/- 0.65 °C |
| Humidity | +/- 4.6 % |
| DC / AC Power Source | DC= +/- 0.13%, AC= +/- 0.2% |

Radiated Spurious Emission:

| Traditional of announce announ | | | |
|--|----------------------------|--|--|
| | 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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance 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



Page 15 of 129

CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency within 150 kHz 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 | | | | | | | |
|------------------------------|-------------|-----------------------------|----------|------------|------------|--|--|
| EQUIPMENT | MFR | MODEL | SERIAL | LAST | CAL DUE. | | |
| TYPE | | NUMBER | NUMBER | CAL. | | | |
| EMI Test Receiver | R&S | ESCI7 | 100760 | 05/10/2016 | 05/09/2017 | | |
| LISN | SCHWARZBECK | NSLK 8127 | 8127-649 | 05/16/2016 | 05/15/2017 | | |
| LISN | MESS TEC | FCC-LISN-50/250- 25-2-01 | 4034 | 05/16/2016 | 05/15/2017 | | |
| Coaxial Cables | N/A | WK CE Cable | N/A | 11/26/2016 | 11/25/2017 | | |

6.3 EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- 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 e-document.htm. Attention is drawn to the limitation of liability, indemnification and iurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

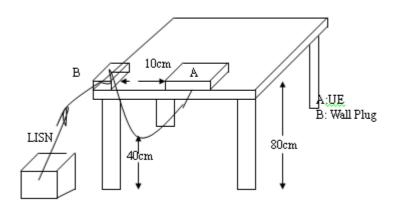
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488 www.tw.sgs.com



Page 16 of 129



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 plan.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

6.6 Measurement Result

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

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

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

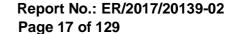
t (886-2) 2299-3279

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

SGS Taiwan Ltd.

f (886-2) 2298-0488

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



Temperature:

Humidity: 58 %

20 TC



AC POWER LINE CONDUCTED EMISSION TEST DATA

| Operation Mode: | Operation mode | | Test By: | Curry | |
|-----------------|----------------|-----------|----------|--------|--------|
| Temperature: | 20 ℃ | Humidity: | 58 % | Phase: | L1 / N |

Phase:

L1

Power: AC 110V/60Hz

Site Conduction Room

Limit: FCC Class B Conduction(QP)

Mode: Operation mode

Note:

Conducted Emission File:総費_AP7465CE-VTR Date: 2017/3/22 Data :#7 Time: 下午 01:35:01 80.0 dBuV FCC Class B Conduction(QP) 0.150 0.5 (MHz) 30.000 5

| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|---------|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 0.1740 | 50.17 | 0.10 | 50.27 | 64.77 | -14.50 | peak | |
| 2 * | 0.2460 | 47.49 | 0.10 | 47.59 | 61.89 | -14.30 | peak | |
| 3 | 0.3020 | 45.34 | 0.11 | 45.45 | 60.19 | -14.74 | peak | |
| 4 | 0.3660 | 43.31 | 0.12 | 43.43 | 58.59 | -15.16 | peak | |
| 5 | 5.2180 | 36.74 | 0.32 | 37.06 | 60.00 | -22.94 | peak | |
| 6 | 17.7060 | 36.82 | 0.44 | 37.26 | 60.00 | -22.74 | peak | |

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

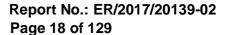
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, 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 unavited and the processor of the company. pearance 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

台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

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

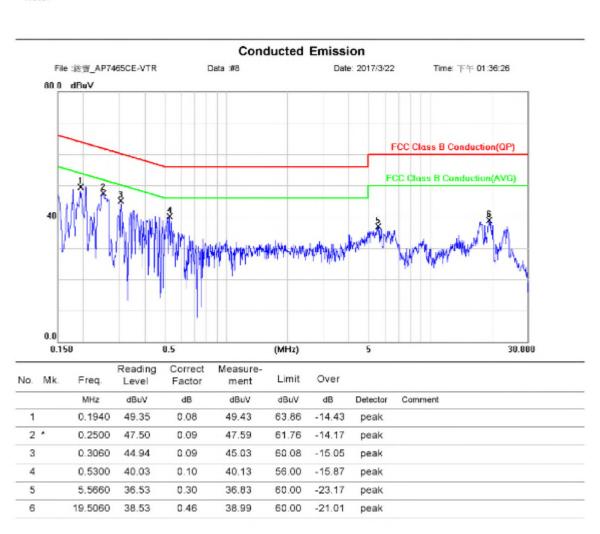




Site Conduction Room Phase: N Temperature: 20 °C
Limit: FCC Class B Conduction(QP) Power; AC 110V/60Hz Humidity: 58 %

Mode: Operation mode

Note:



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

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

台灣檢驗科技股份有限公司

GS Taiwan Ltd.

t (886-2) 2299-3279

f (886-2) 2298-0488



Page 19 of 129

PEAK OUTPUT POWER MEASUREMENT

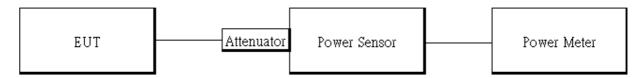
7.1 Standard Applicable

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 -2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

7.2 Measurement Equipment Used

| SGS Conducted Room | | | | | | | |
|------------------------|-----------------------|-----------------|------------------|--------------|------------|--|--|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. | | |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/15/2016 | 12/14/2017 | | |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/15/2016 | 12/14/2017 | | |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 02/26/2017 | 02/25/2018 | | |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/05/2017 | 01/04/2018 | | |
| Coaxial Cable | HU- BER+SUHNE R | SUCOFLEX 102 | 23670/2 | 01/05/2017 | 01/04/2018 | | |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/05/2017 | 01/04/2018 | | |
| Splitter | Agilent | 11636B | N/A | 01/05/2017 | 01/04/2018 | | |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/21/2016 | 11/20/2017 | | |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2016 | 05/16/2017 | | |

7.3 Test Set-up:



7.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
- 4. Record the max. reading.

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

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,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號



Page 20 of 129

5. Repeat above procedures until all default test channel is completed.

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,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/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.

SCSChairman** In the 142 MWW. Interview New Taingilicity Elegate With District New Taingilicity Taiwan 24803 ** the Taiwan



Page 21 of 129



7.5 Measurement Result

1M BR mode (Peak):

| IN DIT IIIOGE (Feak). | | | | | | |
|-----------------------|----------------|----------------------------------|-------------------------|---------------|--|--|
| СН | Freq. (MHz) | Peak Output Power (dBm) | Output Power (mW) | Limit (mW) | | |
| 0 | 2402 | 7.54 | 5.675 | 125 | | |
| 39 | 2441 | 8.17 | 6.561 | 125 | | |
| 78 | 2480 | 8.66 | 7.345 | 125 | | |

1M BR mode (Average):

| | 2 · · · · · · · · · · · · · · · · · | | | | | | |
|----|-------------------------------------|----------------------------------|-------------------------|---------------|--|--|--|
| СН | Freq. (MHz) | Avg. Output Power (dBm) | Output Power (mW) | Limit (mW) | | | |
| 0 | 2402 | 5.45 | 3.508 | 125 | | | |
| 39 | 2441 | 6.12 | 4.093 | 125 | | | |
| 78 | 2480 | 6.96 | 4.966 | 125 | | | |

2M EDR mode (Peak):

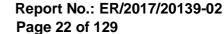
| СН | Freq. (MHz) | Peak Output Power (dBm) | Output Power (mW) | Limit (mW) |
|----|----------------|----------------------------------|-------------------------|---------------|
| 0 | 2402 | 7.66 | 5.834 | 125 |
| 39 | 2441 | 8.46 | 7.015 | 125 |
| 78 | 2480 | 8.56 | 7.178 | 125 |

2M EDR mode (Average):

| СН | Freq. (MHz) | Avg. Output Power (dBm) | Output Power (mW) | Limit (mW) |
|----|----------------|----------------------------------|-------------------------|---------------|
| 0 | 2402 | 4.44 | 2.780 | 125 |
| 39 | 2441 | 5.19 | 3.304 | 125 |
| 78 | 2480 | 5.92 | 3.908 | 125 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. SGS Taiwan Ltd.



3M FDR mode (Peak):

| SWIEDR Mode (Peak): | | | | | | |
|---------------------|----------------|----------------------------------|-------------------------|---------------|--|--|
| СН | Freq. (MHz) | Peak Output Power (dBm) | Output Power (mW) | Limit (mW) | | |
| 0 | 2402 | 7.53 | 5.662 | 125 | | |
| 39 | 2441 | 8.17 | 6.561 | 125 | | |
| 78 | 2480 | 8.79 | 7.568 | 125 | | |

3M EDR mode (Average):

| СН | Freq. (MHz) | Avg. Output Power (dBm) | Output Power (mW) | Limit (mW) |
|----|----------------|----------------------------------|-------------------------|---------------|
| 0 | 2402 | 4.43 | 2.773 | 125 |
| 39 | 2441 | 5.15 | 3.273 | 125 |
| 78 | 2480 | 5.94 | 3.926 | 125 |

NOTE: cable loss as 1dB that offsets in the spectrum

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此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/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.

SCSChairman** In the 142 MWW. Interview New Taingilicity Elegate With District New Taingilicity Taiwan 24803 ** the Taiwan

台灣檢驗科技股份有限公司 t (886-2) 2299-3279

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 23 of 129

20DB & 99% BANDWIDTH MEASUREMENT

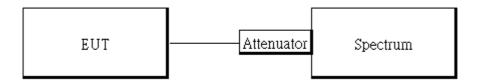
8.1 Standard Applicable

For frequency hopping systems operating in the 2400MHz-2483.5 MHz no limit for 20dB bandwidth.

8.2 Measurement Equipment Used

| SGS Conducted Room | | | | | | | |
|--------------------|---------------|--------------|-------------|------------|------------|--|--|
| EQUIPMENT | MFR | MODEL | SERIAL | LAST | CAL DUE. | | |
| TYPE | | NUMBER | NUMBER | CAL. | | | |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/15/2016 | 12/14/2017 | | |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/15/2016 | 12/14/2017 | | |
| EXA Spectrum | A | Noona | NAV50400700 | 00/00/0047 | 00/05/0040 | | |
| Analyzer | Agilent | N9030A | MY53120760 | 02/26/2017 | 02/25/2018 | | |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/05/2017 | 01/04/2018 | | |
| | HU- | | | | | | |
| Coaxial Cable | BER+SUHNE | SUCOFLEX 102 | 23670/2 | 01/05/2017 | 01/04/2018 | | |
| | R | | | | | | |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/05/2017 | 01/04/2018 | | |
| Splitter | Agilent | 11636B | N/A | 01/05/2017 | 01/04/2018 | | |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/21/2016 | 11/20/2017 | | |
| Temperature | TEDOLIN | MUC 4001 F | 044000 | 05/47/0040 | 05/40/0047 | | |
| Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2016 | 05/16/2017 | | |

8.3 Test Set-up



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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance 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



Page 24 of 129

8.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set the spectrum analyzer as RBW=10 kHz (1 % of 20 dB Bandwidth.), VBW = 30 kHz, Span= 3MHz, Sweep=auto, Detector = Peak, and Max hold for 20dB Bandwidth test.
- 5. Mark the peak frequency and -20dB (upper and lower) frequency
- 6. Turn on the 99% bandwidth function, max reading.
- 7. Repeat above procedures until all test default channel is completed

NOTE: For the plot of bandwidth measurement, the marker of the 20dB BW is arrow-mark.

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

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 eletronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms edocument.htm.

Attention is drawn to the limitation of liability, indemnification and and conditions.htm and, for eleciurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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

台灣檢驗科技股份有限公司



Page 25 of 129

8.5 Measurement Result

| | - | 1/ |
|---|----|----|
| G | -5 | n |

High

| 3N | | | |
|----|-------|-------|--|
| | 20 dB | 2/3 | |
| Н | BW | BW | |
| | (MHz) | (MHz) | |
| W | 0.936 | 0.62 | |
| id | 0.937 | 0.62 | |

99%

Bandwidth (MHz) 0.89998

0.89969

0.90004

0.937

0.62

| π/4-DQPSK | | | | |
|-----------|-------|-------|--|--|
| | 20 dB | 2/3 | | |
| СН | BW | BW | | |
| | (MHz) | (MHz) | | |
| Low | 1.249 | 0.83 | | |
| Mid | 1.248 | 0.83 | | |
| High | 1.251 | 0.83 | | |

8-DPSK

| | 20 dB | 2/3 | |
|------|-------|-------|--|
| СН | BW | BW | |
| | (MHz) | (MHz) | |
| Low | 1.274 | 0.85 | |
| Mid | 1.275 | 0.85 | |
| High | 1.277 | 0.85 | |

GFSK

CH

Low Mid

High

| т | I A | | \sim | П | 0 | u | |
|---|-----|------|--------|---|---|---|--|
| т | ıΔ. | .1) | | μ | | и | |

| | 99% |
|------|-----------|
| СН | Bandwidth |
| | (MHz) |
| Low | 1.1725 |
| Mid | 1.1735 |
| High | 1.1762 |

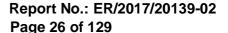
| Q | n | D | C | K |
|---|---|---|---|---|

| | 99% |
|------|-----------|
| СН | Bandwidth |
| | (MHz) |
| Low | 1.1739 |
| Mid | 1.1753 |
| Hiah | 1.1773 |

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

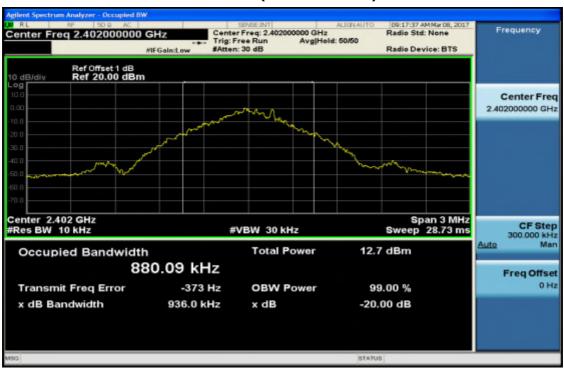
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, 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 unavited and the processor of the company. pearance 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. f (886-2) 2298-0488

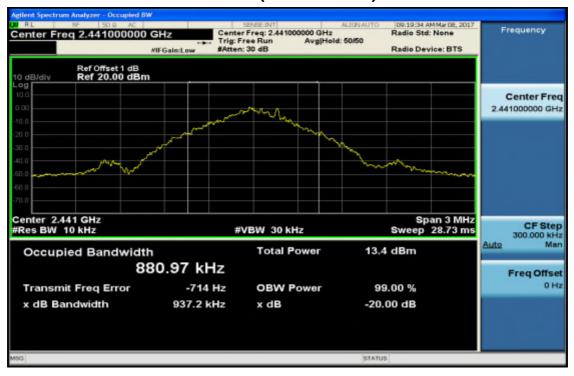




20dB Band Width Test Data CH-Low (GFSK mode)



20dB Band Width Test Data CH-Mid (GFSK mode)



除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
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. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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

台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

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



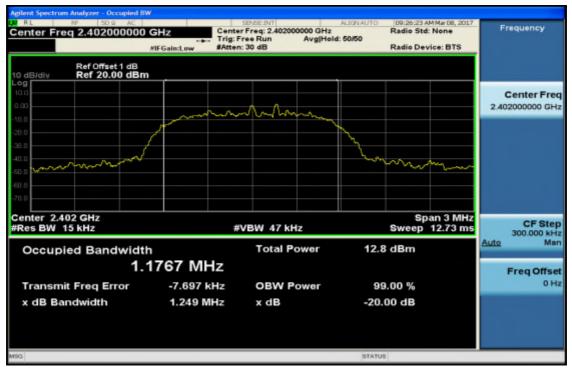


Page 27 of 129

20dB Band Width Test Data CH-High (GFSK mode)



20dB Band Width Test Data CH-Low (π/4-DQPSK mode)



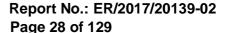
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for elec-

tronic 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.

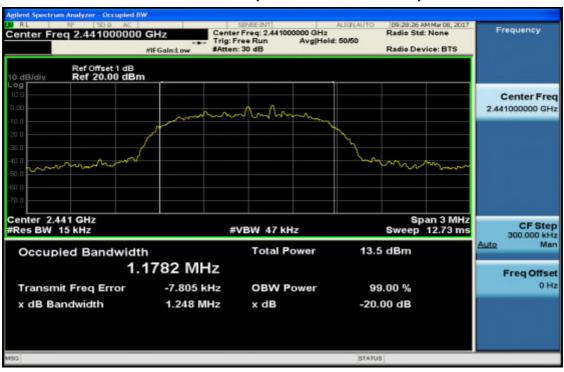
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

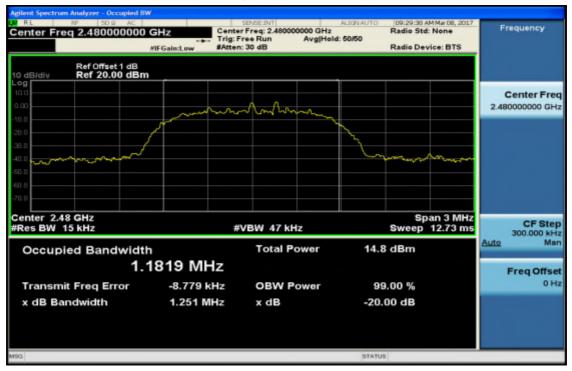




20dB Band Width Test Data CH-Mid (π/4-DQPSK mode)



20dB Band Width Test Data CH-High (π/4-DQPSK mode)



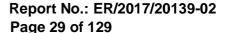
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for elec-

tronic 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.

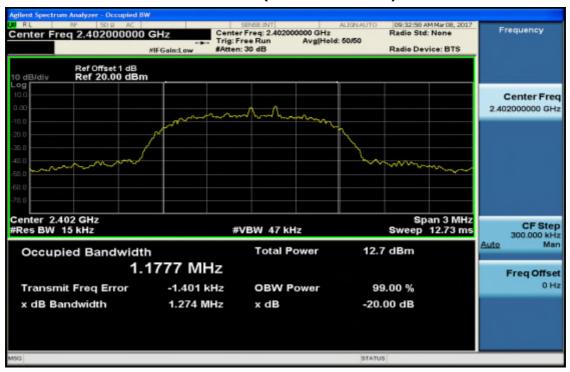
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 www.tw.sgs.com

台灣檢驗科技股份有限公司

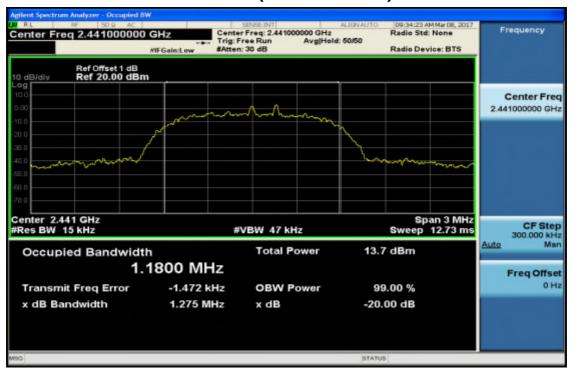




20dB Band Width Test Data CH-Low (8-DPSK mode)



20dB Band Width Test Data CH-Mid (8-DPSK mode)



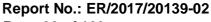
除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/tems and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/tems. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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.134,1

 台灣檢驗科技股份有限公司
 t (886

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

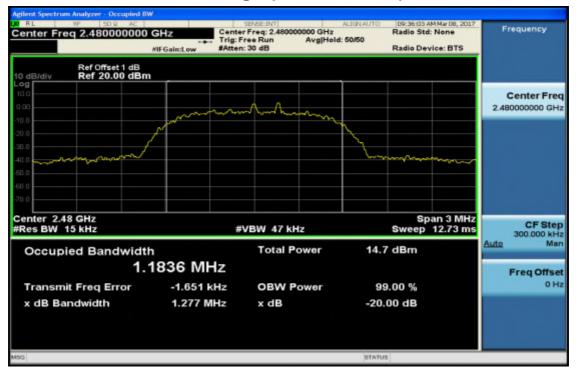
t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com



Page 30 of 129



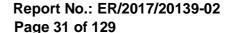
20dB Band Width Test Data CH-High (8-DPSK mode)



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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

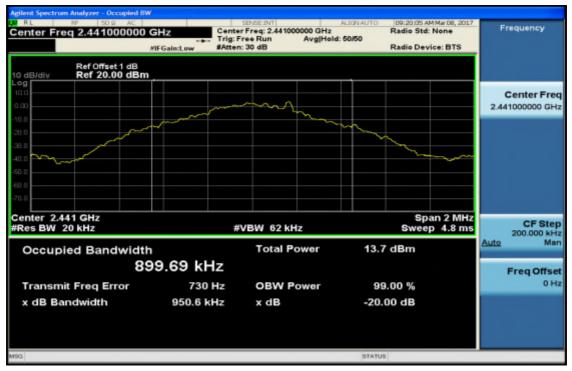
SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 www.tw.sgs.com



99% Band Width Test Data CH-Low (GFSK mode)



99% Band Width Test Data CH-Mid (GFSK mode)



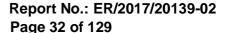
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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

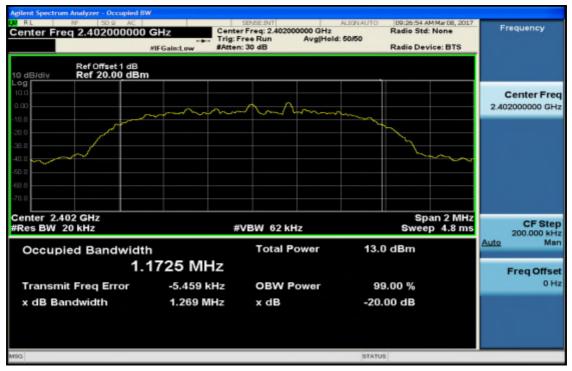




99% Band Width Test Data CH-High (GFSK mode)



99% Band Width Test Data CH-Low (π/4-DQPSK mode)

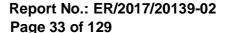


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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

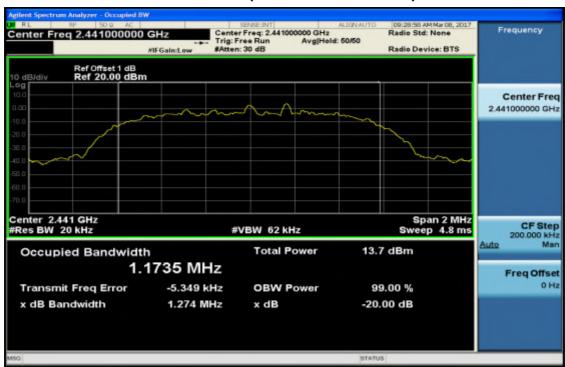
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

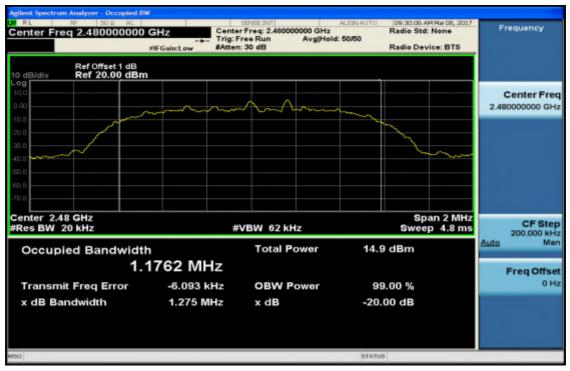




99% Band Width Test Data CH-Mid (π/4-DQPSK mode)



99% Band Width Test Data CH-High (π/4-DQPSK mode)

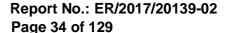


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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

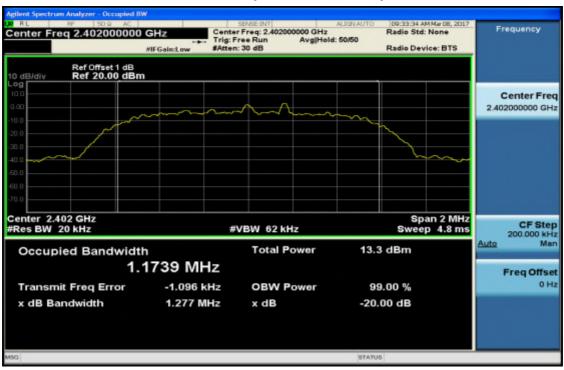
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

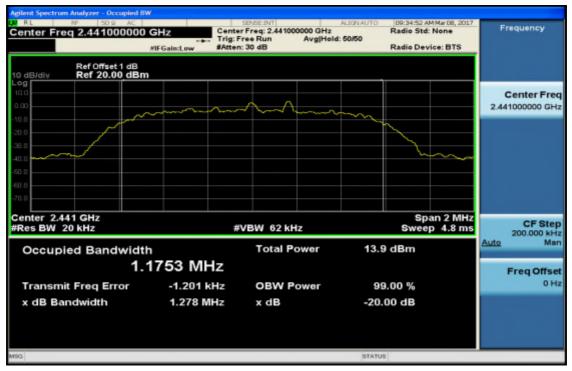




99% Band Width Test Data CH-Low (8-DPSK mode)



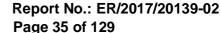
99% Band Width Test Data CH-Mid (8-DPSK mode)



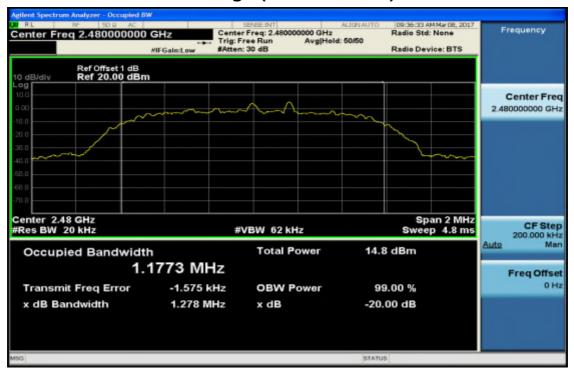
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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



99% Band Width Test Data CH-High (8-DPSK mode)



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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 No.134,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.sgs.com



Page 36 of 129

CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

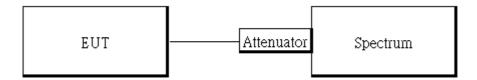
9.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9 limit.

9.2 Measurement Equipment Used

| SGS Conducted Room | | | | | |
|------------------------|-----------------------|--------------|------------|------------|------------|
| EQUIPMENT TYPE | MFR | | | LAST | CAL DUE. |
| ITPE | | NUMBER | NUMBER | CAL. | |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/15/2016 | 12/14/2017 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/15/2016 | 12/14/2017 |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 02/26/2017 | 02/25/2018 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/05/2017 | 01/04/2018 |
| Coaxial Cable | HU- BER+SUHNE R | SUCOFLEX 102 | 23670/2 | 01/05/2017 | 01/04/2018 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/05/2017 | 01/04/2018 |
| Splitter | Agilent | 11636B | N/A | 01/05/2017 | 01/04/2018 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/21/2016 | 11/20/2017 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2016 | 05/16/2017 |

9.3 Test SET-UP



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

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,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 37 of 129

9.4 Measurement Procedure

Conducted Band Edge:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = operating frequency.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
- 6. Mark Peak, 2.3999GHz and 2.4836GHz and record the max. level.
- 7. Repeat above procedures until all frequency measured were complete.

Conducted Spurious Emission:

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 3. Set RBW = 100 kHz & VBW = 300 kHz, Detector = Peak, Sweep = Auto
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

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

9.5 Measurement Result

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

1. The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

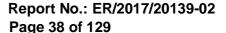
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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

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.

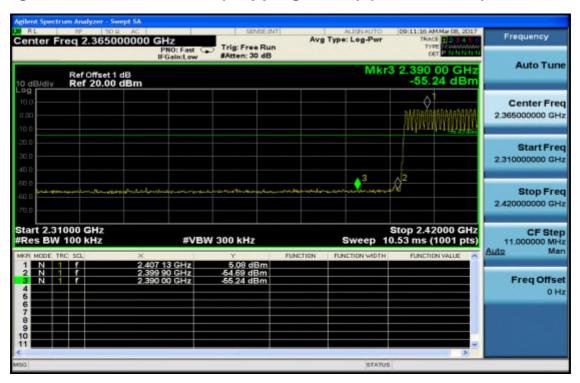
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488

SGS Taiwan Ltd.

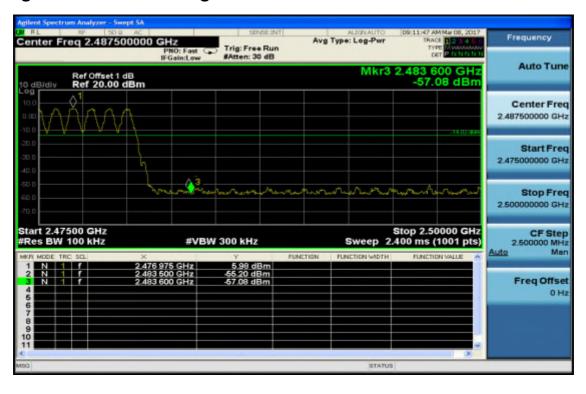




Band Edges Test Data CH-Low (Hopping mode) (GFSK mode)



Band Edges Test Data CH-High



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

解析力 机钢 ** 比較皆られては可知以へ体の具具 ** 同可に体の性は特別以下・本根で不必可能回す 2 ** 不可能可能表 2 **

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

台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

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

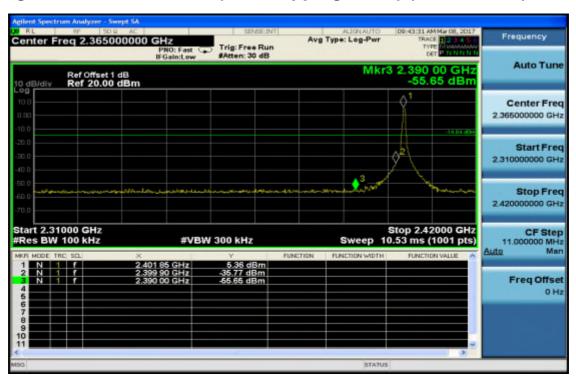
www.tw.sgs.com



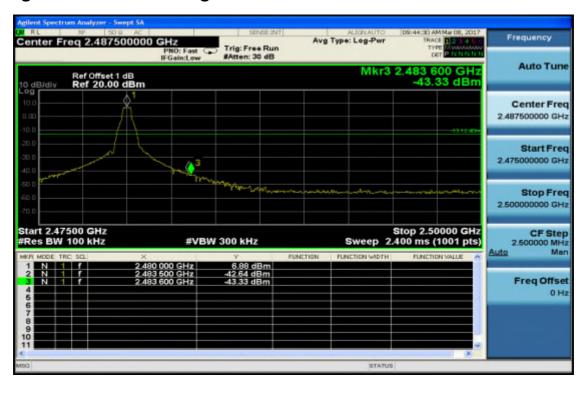
Page 39 of 129



Band Edges Test Data CH-Low (Non-Hopping mode) (GFSK mode)



Band Edges Test Data CH-High



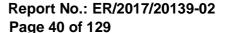
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

解析方角就明 「比較告點不復到例本(本語具具 「同可匹殊語程序報刊の下。本根音本本本本の音画可可、下可可力技术で 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/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 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 ap
**This document is issued by the Company is solded in the Company is solded in the Company. Any unauthorized alteration, forgery or falsification of the content or ap
**This document is issued by the Company is solded in the Company. Any unauthorized alteration, forgery or falsification of the content or ap
**This document is issued by the Company is solded in the Company. Any unauthorized alteration, forgery or falsification of the Company.

**This document is issued by the Company is solded in the Company i pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

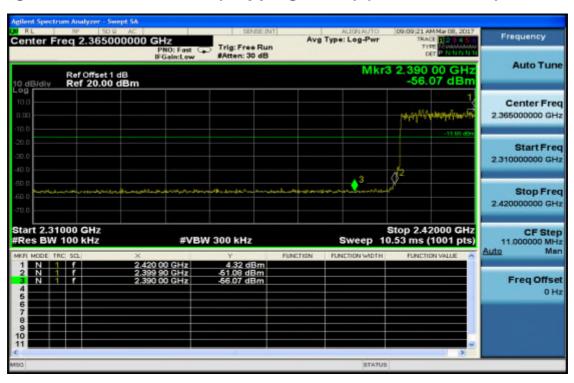
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 www.tw.sgs.com

台灣檢驗科技股份有限公司

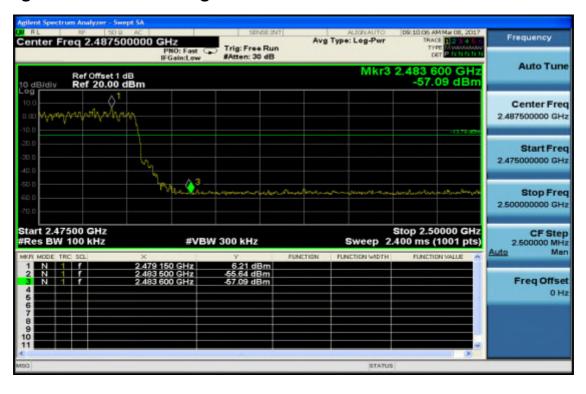




Band Edges Test Data CH-Low (Hopping mode) (8-DPSK mode)



Band Edges Test Data CH-High



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

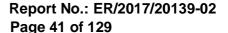
解析方角就明 「比較告點不復到例本(本語具具 「同可匹殊語程序報刊の下。本根音本本本本の音画可可、下可可力技术で This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/tems and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/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 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 ap
**This document is issued by the Company is solded in the Company is solded in the Company. Any unauthorized alteration, forgery or falsification of the content or ap
**This document is issued by the Company is solded in the Company. Any unauthorized alteration, forgery or falsification of the content or ap
**This document is issued by the Company is solded in the Company. Any unauthorized alteration, forgery or falsification of the Company.

**This document is issued by the Company is solded in the Company i pearance 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

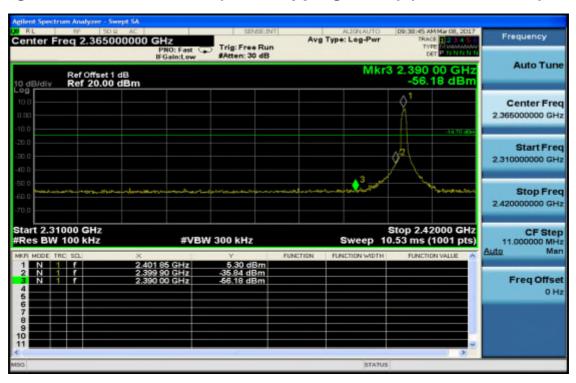
台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

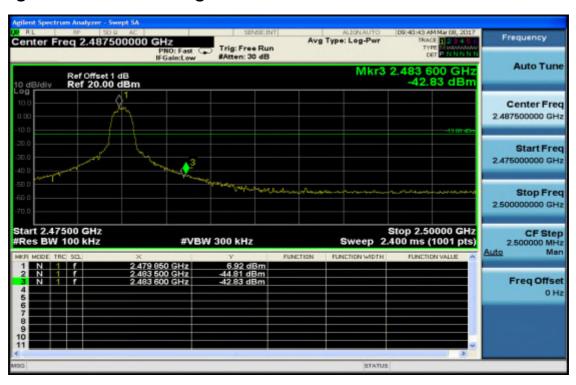




Band Edges Test Data CH-Low (Non-Hopping mode) (8-DPSK mode)



Band Edges Test Data CH-High



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

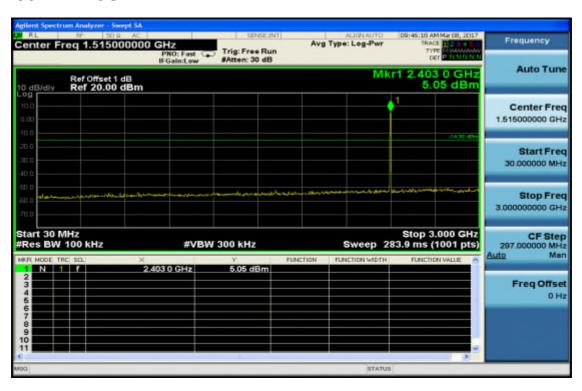
解析力 机钢 ** 比較皆られては可知以へ体の具具 ** 同可に体の性は特別以下・本根で不必可能回す 2 ** 不可能可能表 2 **

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.

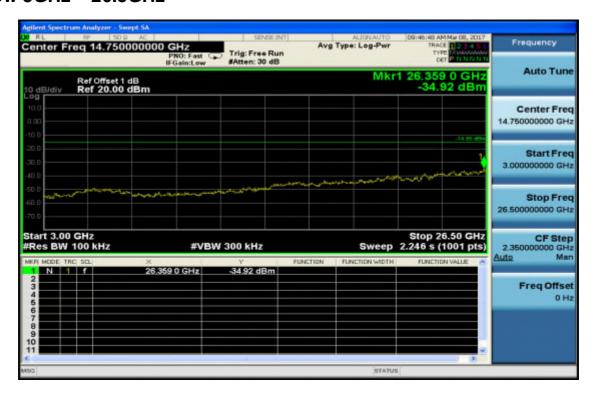
SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號



Conducted Spurious Emission Measurement Result (GFSK mode) Ch Low 30MHz - 3GHz



Ch Low 3GHz - 26.5GHz



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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for you gays only. 除非另有说明,此根告结果僅對測述之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
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 in the decironic 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 appropriate in the full personal contents. This document is unauthorized alteration, forgery or falsification of the content or appropriate in the full personal contents. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

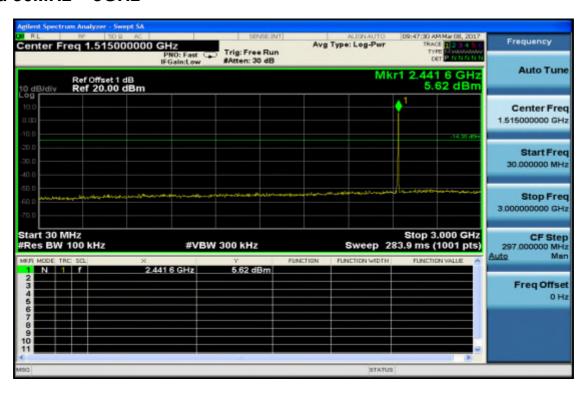
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

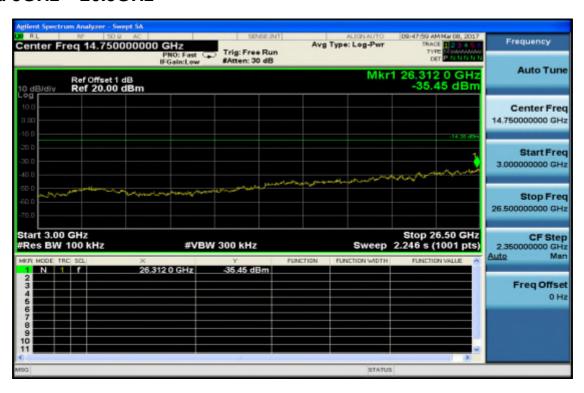
SGS Taiwan Ltd.



Ch Mid 30MHz - 3GHz



Ch Mid 3GHz - 26.5GHz



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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for you gays only. 除非另有说明,此根告结果僅對測述之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
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 in the decironic 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 appropriate in the full personal contents. This document is unauthorized alteration, forgery or falsification of the content or appropriate in the full personal contents. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

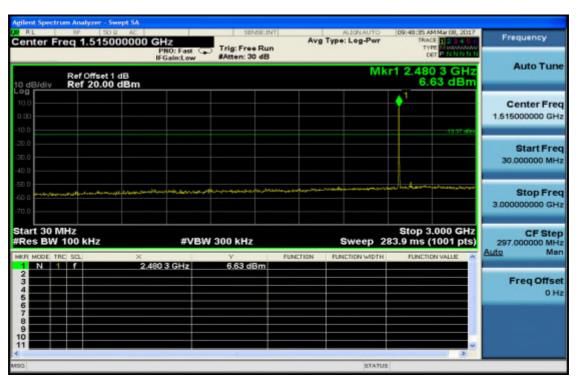
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 www.tw.sgs.com

台灣檢驗科技股份有限公司

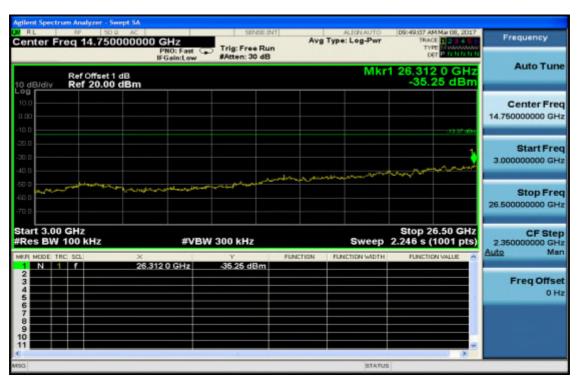
SGS Taiwan Ltd.



Ch High 30MHz - 3GHz



Ch High 3GHz - 26.5GHz



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

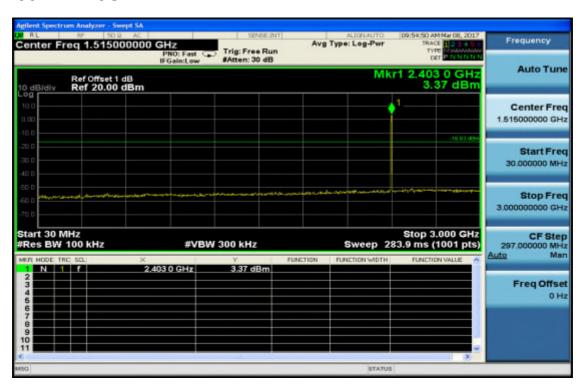
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, 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 unavited and the processor of the company. pearance 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

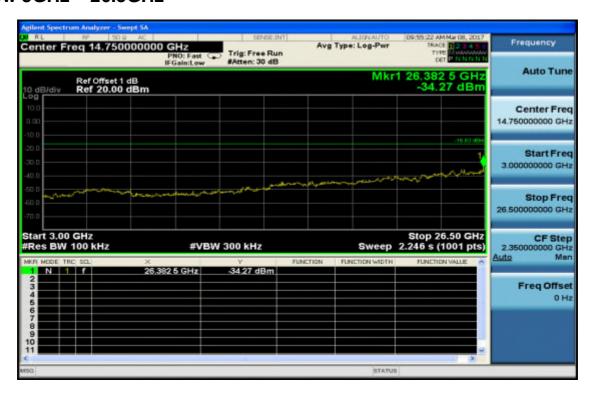
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 www.tw.sgs.com



Conducted Spurious Emission Measurement Result (8DPSK mode) Ch Low 30MHz - 3GHz



Ch Low 3GHz - 26.5GHz



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

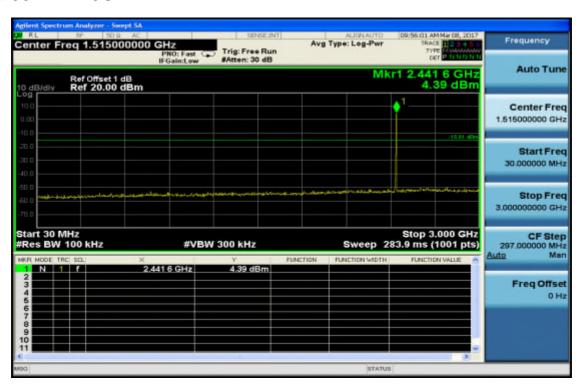
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for you gays only. 除非另有说明,此根告结果僅對測述之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions in the decironic 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 appropriate in the full personal contents. This document is unauthorized alteration, forgery or falsification of the content or appropriate in the full personal contents. pearance 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

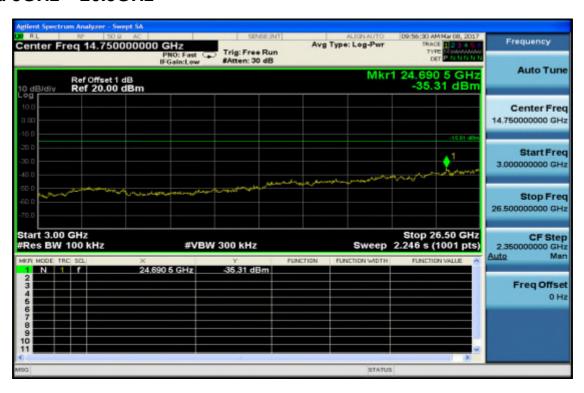
台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

Ch Mid 30MHz - 3GHz



Ch Mid 3GHz - 26.5GHz



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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for you gays only. 除非另有说明,此根告结果僅對測述之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
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 in the decironic 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 appropriate in the full personal contents. This document is unauthorized alteration, forgery or falsification of the content or appropriate in the full personal contents. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

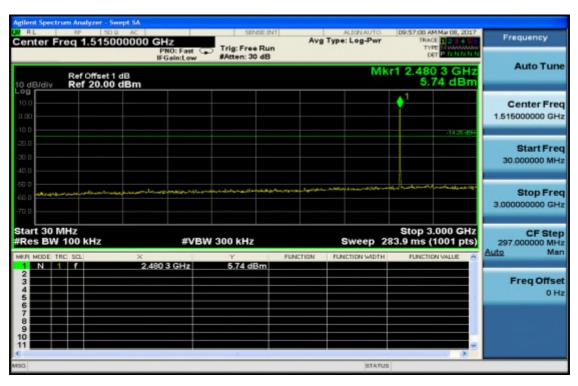
SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

t (886-2) 2299-3279

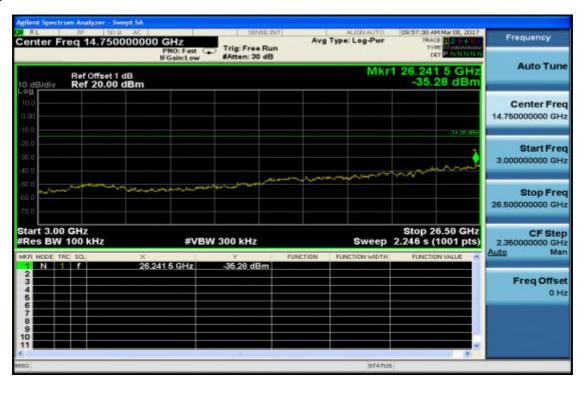
www.tw.sgs.com



Ch High 30MHz - 3GHz



Ch High 3GHz - 26.5GHz



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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance 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



Page 48 of 129

10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, must also comply with the §15.209 & RSS-Gen §8.10 Table 6 limit.

And according to §15.33(a) (1) & RSS-Gen §8.9 Table 4 & 5, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|--------------------|-----------------------------------|----------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

- 1. The lower limit shall apply at the transition frequencies.
- Emission level (dBµV/m) = 20 log Emission level (dBµV/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 endocument.htm.

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

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 No.134,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 49 of 129

10.2 Measurement Equipment Used

| | SGS SAC-III | | | | | | | | |
|-------------------|-----------------------|--------------|------------|------------|------------|--|--|--|--|
| EQUIPMENT | MFR | MODEL | SERIAL | LAST | CAL DUE. | | | | |
| TYPE | | NUMBER | NUMBER | CAL. | | | | | |
| EMI Test Receiver | R&S | ESCI7 | 100760 | 05/10/2016 | 05/09/2017 | | | | |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 04/21/2016 | 04/20/2017 | | | | |
| Loop Antenna | ETS-Lindgren | 6502 | 148045 | 09/20/2016 | 09/19/2017 | | | | |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 12/19/2016 | 12/18/2017 | | | | |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1441 | 08/01/2016 | 07/31/2017 | | | | |
| Pre-Amplifier | Agilent | 8447D | 2944A07676 | 01/05/2017 | 01/04/2018 | | | | |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 01/05/2017 | 01/04/2018 | | | | |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R | | | | |
| Antenna Tower | ChamPro | AM-BS-4500-B | 060776-ABS | N.C.R | N.C.R | | | | |
| Controller | ChamPro | EM1000 | 60776 | N.C.R | N.C.R | | | | |
| Low Loss Cable | Huber Suhner | 966_RX | 9 | 01/05/2017 | 01/04/2018 | | | | |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/01/2016 | 06/30/2017 | | | | |
| Low Loss Cable | Huber Suhner | 966 TX | 1 | 01/05/2017 | 01/04/2018 | | | | |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 12/12/2016 | 12/11/2017 | | | | |
| Pre-Amplifier | EMC Instruments Corp. | EMC184045 | 980135 | 01/05/2017 | 01/04/2018 | | | | |

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.

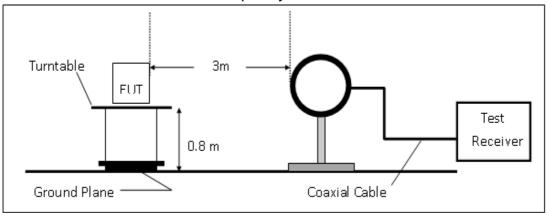
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488

SGS Taiwan Ltd.

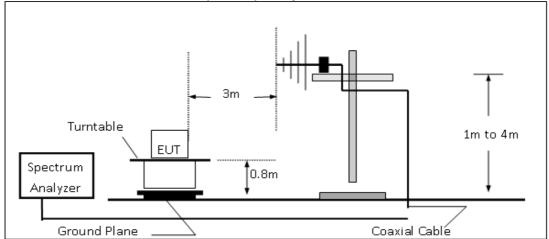


10.3 Test SET-UP

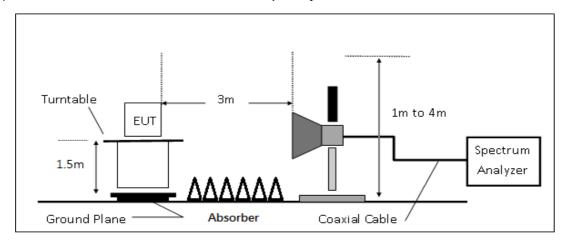
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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90天。本報告未經本公司書面許可,不可部份複製。

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.

大阪公司 t

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 51 of 129

10.4 Measurement Procedure

Radiated Emission

- 1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 0.8m for frequency> 1GHz above ground plan.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. Use the follow spectrum analyzer setting:
 - (1) Span = wide enough to fully capture the emission being measured
 - (2) RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz, VBW \ge RBW, Sweep = auto, Detector function = peak, Trace = max hold
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c) Duty Cycle = On time/100 milliseconds

On time = N1*L1=N2*L2+...+N(n-1)*LN(n-1)+N(n)*L(n)

Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.

Average Emission Level = Peak Emission Level + 20*log (duty Cycle)

- 6. When 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.
- 7. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 8. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 9. Repeat above procedures until all frequency of the interest measured were complete.

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

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

Attention is drawn to the limitation of liability, indemnification and and conditions.htm and, for elecjurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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.sgs.com

SGS Taiwan Ltd.



Page 52 of 129

10.5 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 | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
|-------|------------------------|--|
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)

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)

Note:

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

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

10.6 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.

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

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,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

SGS Taiwan Ltd.



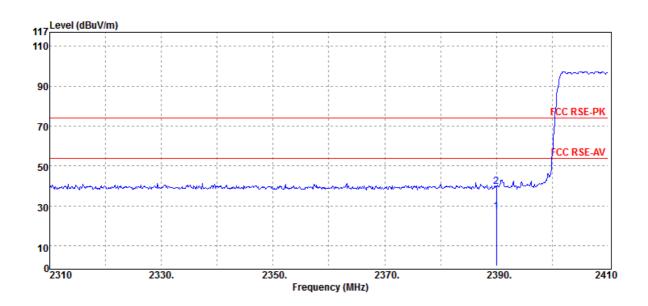
Page 53 of 129

Radiated Band Edge Measurement Result: (Hopping Mode) *Dipole Antenna

Operation Band :BR Hopping Test Date :2017-03-13 **Fundamental Frequency** :2402 MHz Temp./Humi. :22 deg C / 61 RH

Operation Mode :Bandedge CH LOW Engineer :Tin

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2390.00 | E | Average | 28.85 | -1.74 | 27.11 | 54.00 | -26.89 |
| 2390.00 | Е | Peak | 41.58 | -1.74 | 39.84 | 74.00 | -34.16 |

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

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留卽天。本報告未經本公司書面許可,不可部份複製。
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 for Electronic Documents at www.sgs.com/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,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.sgs.com

台灣檢驗科技股份有限公司



Page 54 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BR Hopping :2402 MHz

:Bandedge CH LOW

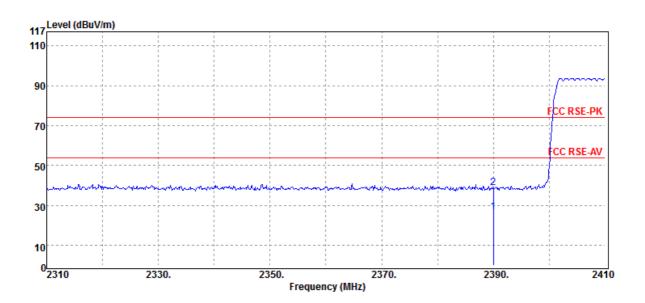
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2390.00 | E | Average | 28.42 | -1.74 | 26.68 | 54.00 | -27.32 |
| 2390.00 | Ε | Peak | 40.46 | -1.74 | 38.72 | 74.00 | -35.28 |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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 55 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BR Hopping :2480 MHz

:Bandedge CH HIGH

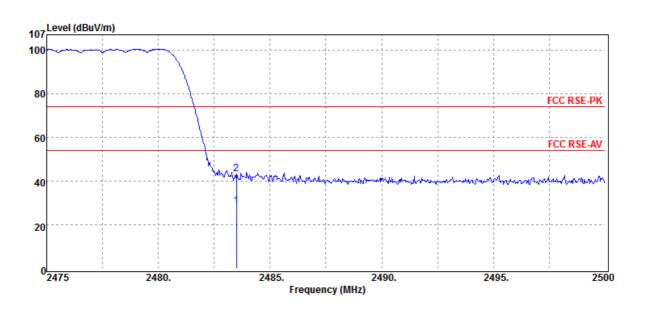
:H Plane

:2017-03-13 **Test Date**

Temp./Humi. :22 deg_C / 61 RH

Engineer

:VERTICAL Measurement Antenna Pol.



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2483.50 | Е | Average | 30.17 | -1.62 | 28.55 | 54.00 | -25.45 |
| 2483.50 | Е | Peak | 44.77 | -1.62 | 43.15 | 74.00 | -30.85 |

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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance 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

SGS Taiwan Ltd.



Page 56 of 129

Operation Band Fundamental Frequency Operation Mode

:BR Hopping :2480 MHz :Bandedge CH HIGH

Temp./Humi.

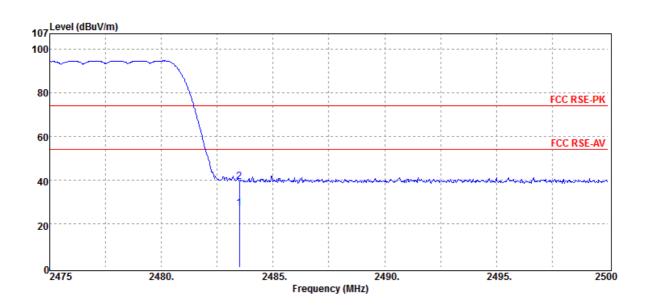
Test Date

:2017-03-13

:22 deg_C / 61 RH

Engineer

EUT Pol. :H Plane Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2483.50 | E | Average | 28.61 | -1.62 | 26.99 | 54.00 | -27.01 |
| 2483.50 | E | Peak | 40.98 | -1.62 | 39.36 | 74.00 | -34.64 |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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 57 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR Hopping :2402 MHz :Bandedge CH LOW

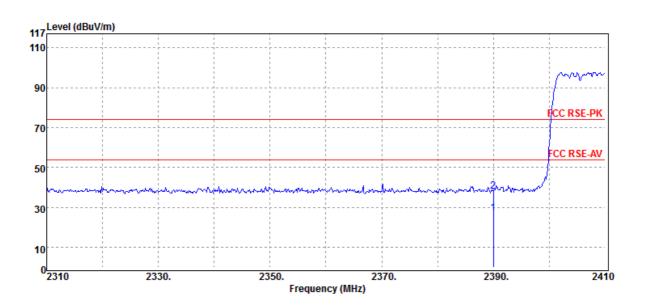
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :VERTICAL



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin | |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | | Mode | Reading Level | | FS | @3m | | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | |
| | 2390.00 | E | Average | 28.75 | -1.74 | 27.01 | 54.00 | -26.99 | |
| | 2390.00 | Ε | Peak | 39.82 | -1.74 | 38.08 | 74.00 | -35.92 | |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488



Page 58 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR Hopping :2402 MHz

:Bandedge CH LOW

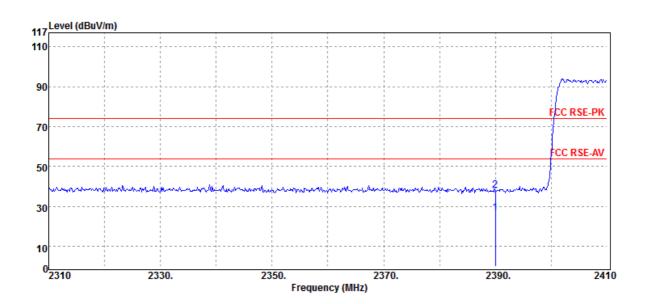
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 2390.00 | E | Average | 28.42 | -1.74 | 26.68 | 54.00 | -27.32 |
| 2390.00 | E | Peak | 39.69 | -1.74 | 37.95 | 74.00 | -36.05 |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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.sgs.com



Page 59 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR Hopping :2480 MHz

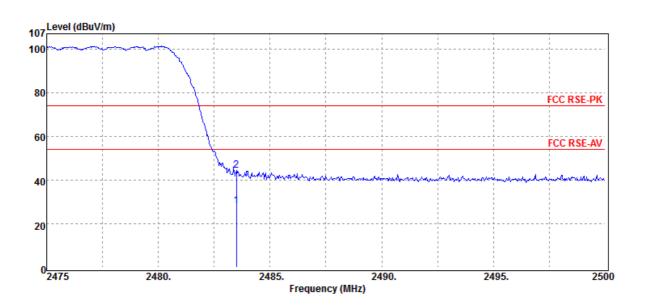
:Bandedge CH HIGH

:H Plane

:2017-03-13 **Test Date**

Temp./Humi. :22 deg_C / 61 RH Engineer

Measurement Antenna Pol. :VERTICAL



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin | |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | | Mode | Reading Level | | FS | @3m | | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB | |
| | 2483.50 | E | Average | 29.73 | -1.62 | 28.11 | 54.00 | -25.89 | |
| | 2483.50 | Ε | Peak | 46.20 | -1.62 | 44.58 | 74.00 | -29.42 | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance 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 60 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR Hopping :2480 MHz

:Bandedge CH HIGH

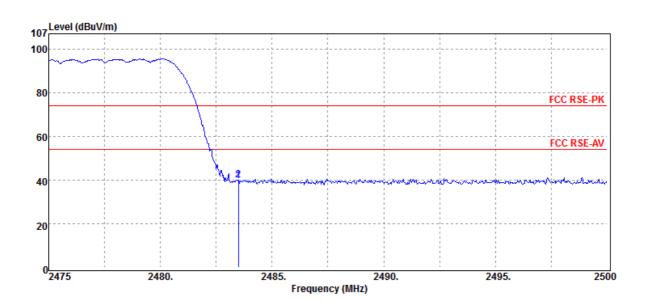
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin | |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | | Mode | Reading Level | | FS | @3m | | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB | |
| | 2483.50 | E | Average | 41.14 | -1.62 | 39.52 | 54.00 | -14.48 | |
| | 2483.50 | Ε | Peak | 41.61 | -1.62 | 39.99 | 74.00 | -34.01 | |

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.

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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



Page 61 of 129

*PCB Antenna

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BR Hopping :2402 MHz

:Bandedge CH LOW

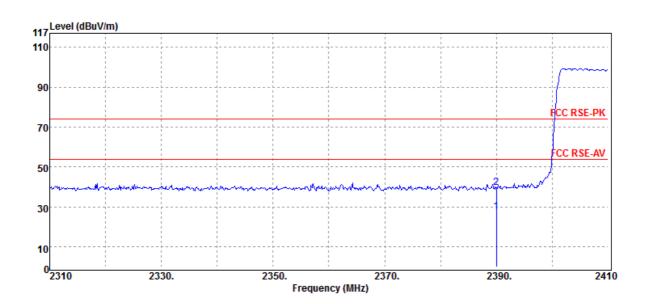
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2390.00 | E | Average | 29.45 | -1.74 | 27.71 | 54.00 | -26.29 |
| 2390.00 | Е | Peak | 41.42 | -1.74 | 39.68 | 74.00 | -34.32 |

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

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留卽天。本報告未經本公司書面許可,不可部份複製。
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 for Electronic Documents at www.sgs.com/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,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.sgs.com



Page 62 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BR Hopping :2402 MHz

:Bandedge CH LOW

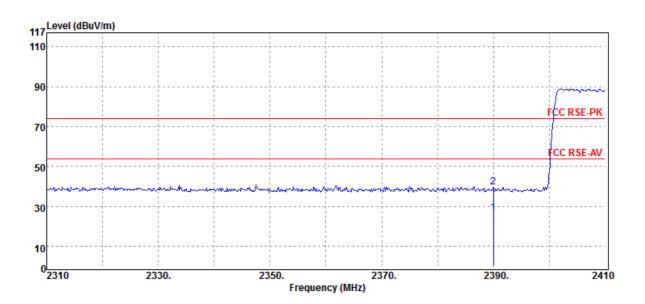
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 2390.00 | E | Average | 28.33 | -1.74 | 26.59 | 54.00 | -27.41 |
| 2390.00 | E | Peak | 41.26 | -1.74 | 39.52 | 74.00 | -34.48 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有说明,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

t (886-2) 2299-3279

f (886-2) 2298-0488



Page 63 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BR Hopping :2480 MHz

:Bandedge CH HIGH

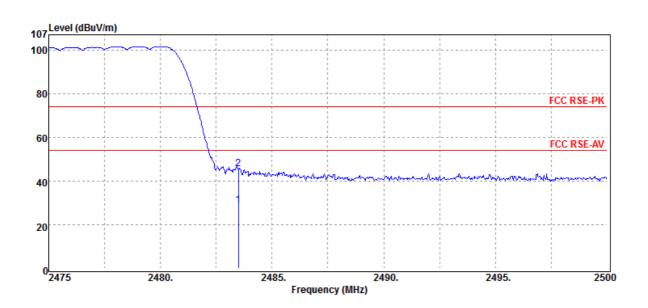
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

:VERTICAL Measurement Antenna Pol.



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin | |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | | Mode | Reading Level | | FS | @3m | | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | |
| | 2483.50 | E | Average | 30.66 | -1.62 | 29.04 | 54.00 | -24.96 | |
| | 2483.50 | Ε | Peak | 47.18 | -1.62 | 45.56 | 74.00 | -28.44 | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance 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 64 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BR Hopping :2480 MHz

:Bandedge CH HIGH

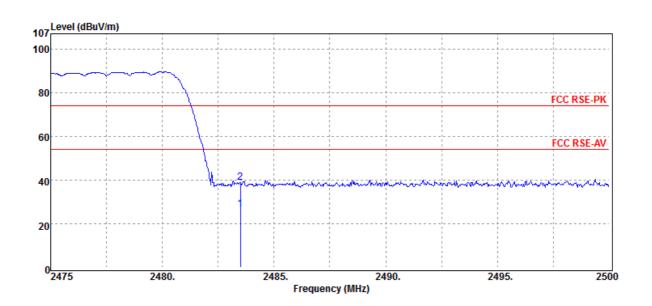
:H Plane

:2017-03-13 **Test Date**

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2483.50 | E | Average | 28.12 | -1.62 | 26.50 | 54.00 | -27.50 |
| 2483.50 | E | Peak | 40.45 | -1.62 | 38.83 | 74.00 | -35.17 |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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



Page 65 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR Hopping :2402 MHz

:Bandedge CH LOW

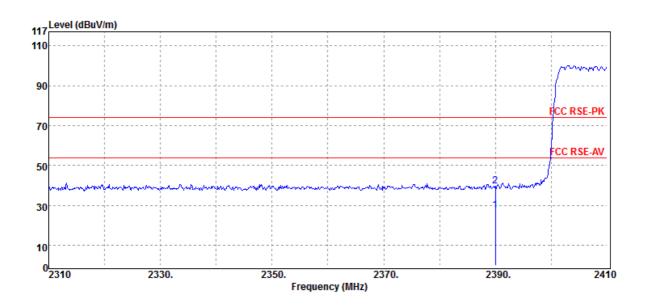
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :VERTICAL



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin | |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | | Mode | Reading Level | | FS | @3m | | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB | |
| | 2390.00 | E | Average | 29.20 | -1.74 | 27.46 | 54.00 | -26.54 | |
| | 2390.00 | Ε | Peak | 41.43 | -1.74 | 39.69 | 74.00 | -34.31 | |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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.sgs.com

台灣檢驗科技股份有限公司



Page 66 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR Hopping :2402 MHz

:Bandedge CH LOW

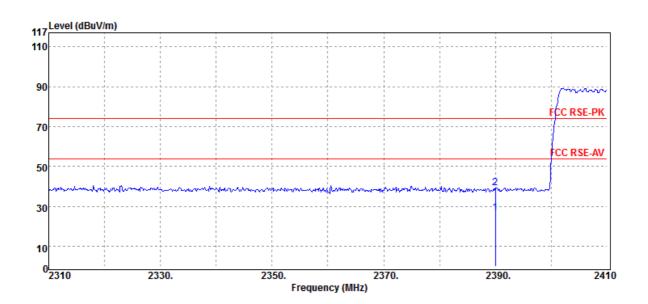
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin | |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | | Mode | Reading Level | | FS | @3m | | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB | |
| | 2390.00 | E | Average | 28.32 | -1.74 | 26.58 | 54.00 | -27.42 | |
| | 2390.00 | Ε | Peak | 40.82 | -1.74 | 39.08 | 74.00 | -34.92 | |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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.sgs.com



Page 67 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR Hopping :2480 MHz

:Bandedge CH HIGH

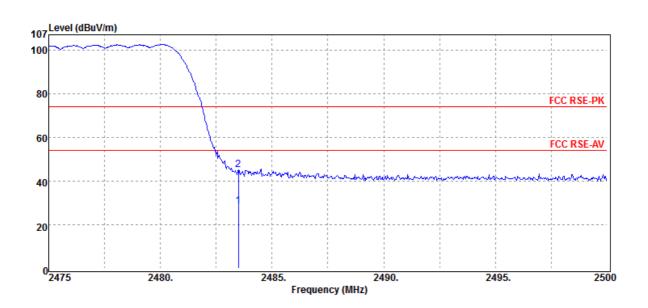
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

:VERTICAL Measurement Antenna Pol.



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin | |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | | Mode | Reading Level | | FS | @3m | | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB | |
| | 2483.50 | E | Average | 30.11 | -1.62 | 28.49 | 54.00 | -25.51 | |
| | 2483.50 | Ε | Peak | 46.81 | -1.62 | 45.19 | 74.00 | -28.81 | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance 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 68 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR Hopping :2480 MHz

:Bandedge CH HIGH

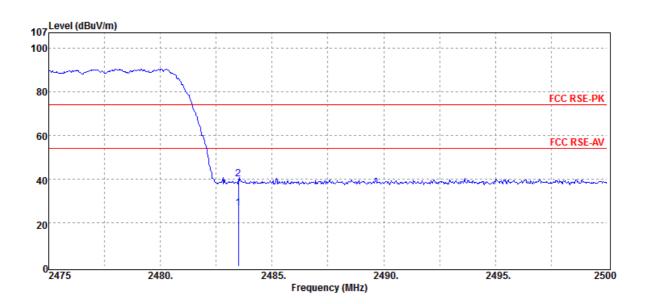
:H Plane

:2017-03-13 **Test Date**

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | | Mode | Reading Level | | FS | @3m | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| | 2483.50 | E | Average | 28.15 | -1.62 | 26.53 | 54.00 | -27.47 |
| | 2483.50 | Ε | Peak | 41.61 | -1.62 | 39.99 | 74.00 | -34.01 |

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.

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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



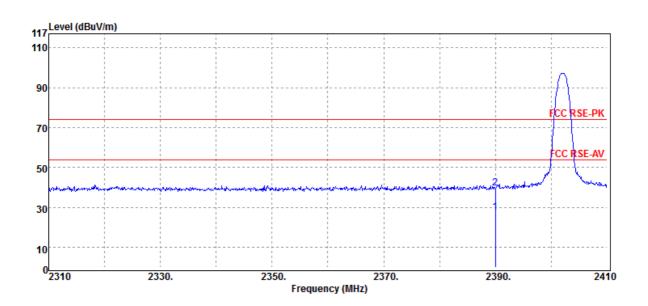
Page 69 of 129

Radiated Band Edge Measurement Result: (Non-Hopping Mode) *Dipole Antenna

Operation Band :BR(1M) **Test Date** :2017-03-13 Fundamental Frequency :2402 MHz Temp./Humi. :22 deg_C / 61 RH

Operation Mode :Bandedge CH LOW Engineer

:VERTICAL EUT Pol. :H Plane Measurement Antenna Pol.



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin | |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | | Mode | Reading Level | | FS | @3m | | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | |
| | 2390.00 | E | Average | 29.40 | -1.74 | 27.66 | 54.00 | -26.34 | |
| | 2390.00 | Ε | Peak | 41.38 | -1.74 | 39.64 | 74.00 | -34.36 | |

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

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

台灣檢驗科技股份有限公司



Page 70 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BR(1M) :2402 MHz

:Bandedge CH LOW

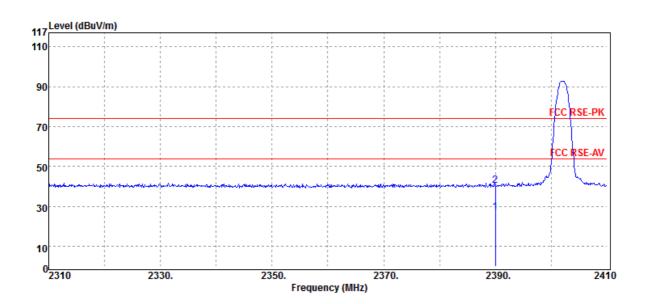
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 2390.00 | E | Average | 28.75 | -1.74 | 27.01 | 54.00 | -26.99 |
| 2390.00 | E | Peak | 42.23 | -1.74 | 40.49 | 74.00 | -33.51 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有说明,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

t (886-2) 2299-3279

f (886-2) 2298-0488

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 71 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BR(1M) :2480 MHz

:Bandedge CH HIGH

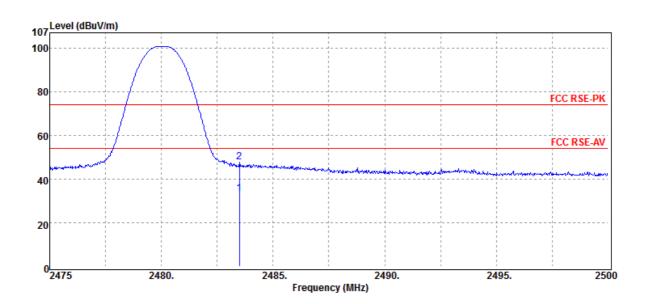
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

:VERTICAL Measurement Antenna Pol.



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 2483.50 | E | Average | 35.10 | -1.62 | 33.48 | 54.00 | -20.52 |
| 2483.50 | E | Peak | 49.33 | -1.62 | 47.71 | 74.00 | -26.29 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance 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

SGS Taiwan Ltd.



Page 72 of 129

Operation Band Fundamental Frequency Operation Mode

EUT Pol.

:BR(1M) :2480 MHz

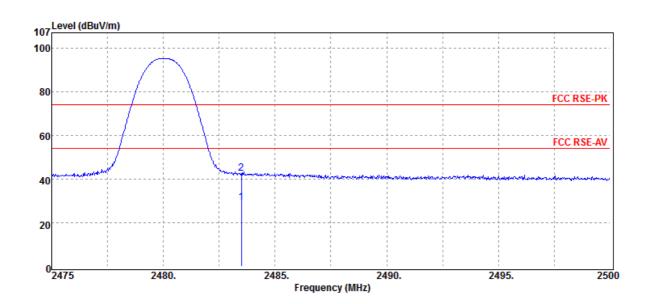
:Bandedge CH HIGH

:H Plane

:2017-03-13 **Test Date** :22 deg_C / 61 RH

Temp./Humi. Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 2483.50 | E | Average | 30.74 | -1.62 | 29.12 | 54.00 | -24.88 |
| 2483.50 | E | Peak | 44.15 | -1.62 | 42.53 | 74.00 | -31.47 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有说明,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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 73 of 129

Operation Band Fundamental Frequency Operation Mode

:EDR(3M) :2402 MHz

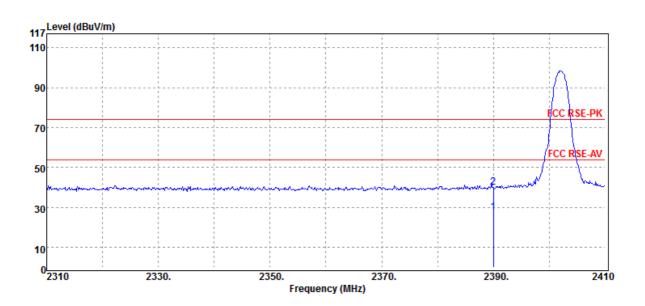
:Bandedge CH LOW

EUT Pol. :H Plane **Test Date** :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

:VERTICAL Measurement Antenna Pol.



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 2390.00 | E | Average | 29.29 | -1.74 | 27.55 | 54.00 | -26.45 |
| 2390.00 | Ε | Peak | 41.92 | -1.74 | 40.18 | 74.00 | -33.82 |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

t (886-2) 2299-3279

f (886-2) 2298-0488



Page 74 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR(3M) :2402 MHz

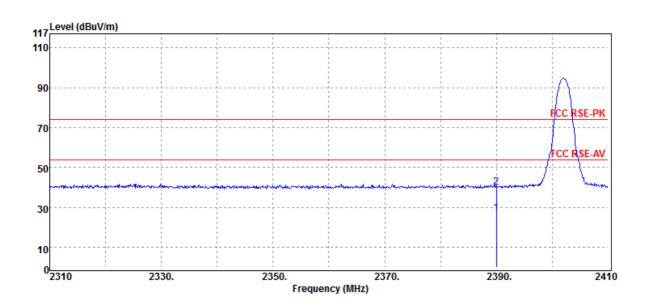
:Bandedge CH LOW

:H Plane

Test Date :2017-03-13 Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBμV/m | dBµV/m | dB |
| 2390.00 | Е | Average | 28.70 | -1.74 | 26.96 | 54.00 | -27.04 |
| 2390.00 | Е | Peak | 41.78 | -1.74 | 40.04 | 74.00 | -33.96 |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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

台灣檢驗科技股份有限公司



Page 75 of 129

Operation Band Fundamental Frequency Operation Mode

EUT Pol.

:EDR(3M) :2480 MHz

:Bandedge CH HIGH

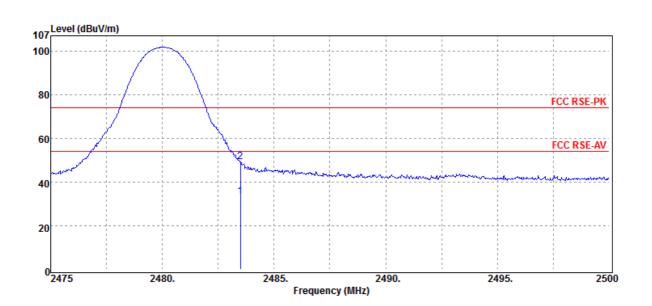
:H Plane

:2017-03-13 **Test Date**

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2483.50 | E | Average | 35.10 | -1.62 | 33.48 | 54.00 | -20.52 |
| 2483.50 | Ε | Peak | 50.83 | -1.62 | 49.21 | 74.00 | -24.79 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance 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.sgs.com



Page 76 of 129

Operation Band Fundamental Frequency Operation Mode

EUT Pol.

:EDR(3M) :2480 MHz

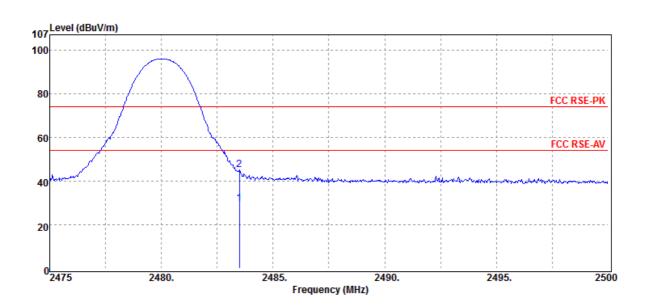
:Bandedge CH HIGH

:H Plane

:2017-03-13 **Test Date**

Temp./Humi. :22 deg_C / 61 RH Engineer

Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin | |
|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | Mode | Reading Level | | FS | @3m | | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | |
| 2483.50 | E | Average | 31.10 | -1.62 | 29.48 | 54.00 | -24.52 | |
| 2483.50 | Ε | Peak | 46.72 | -1.62 | 45.10 | 74.00 | -28.90 | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有说明,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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 www.tw.sgs.com

SGS Taiwan Ltd.



:2017-03-13

:22 deg_C / 61 RH

Page 77 of 129

*PCB Antenna

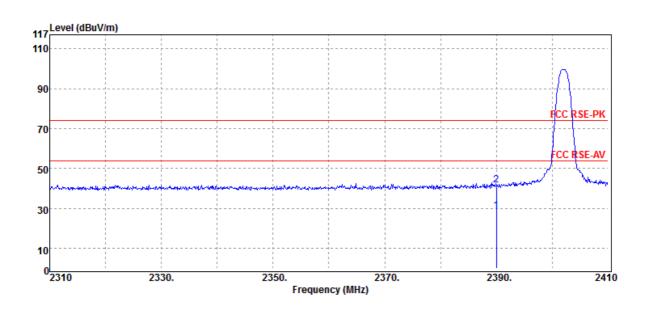
Operation Band :BR(1M) Fundamental Frequency :2402 MHz

Operation Mode :Bandedge CH LOW Engineer

EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL

Test Date

Temp./Humi.



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin | |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | | Mode | Reading Level | | FS | @3m | | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB | |
| | 2390.00 | E | Average | 30.57 | -1.74 | 28.83 | 54.00 | -25.17 | |
| | 2390.00 | Ε | Peak | 43.27 | -1.74 | 41.53 | 74.00 | -32.47 | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有说明,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488



Page 78 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BR(1M) :2402 MHz

:Bandedge CH LOW

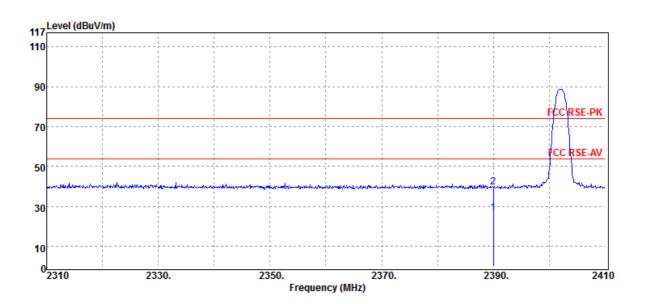
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2390.00 | E | Average | 28.42 | -1.74 | 26.68 | 54.00 | -27.32 |
| 2390.00 | Ε | Peak | 41.59 | -1.74 | 39.85 | 74.00 | -34.15 |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

t (886-2) 2299-3279

f (886-2) 2298-0488



Page 79 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BR(1M) :2480 MHz

:Bandedge CH HIGH

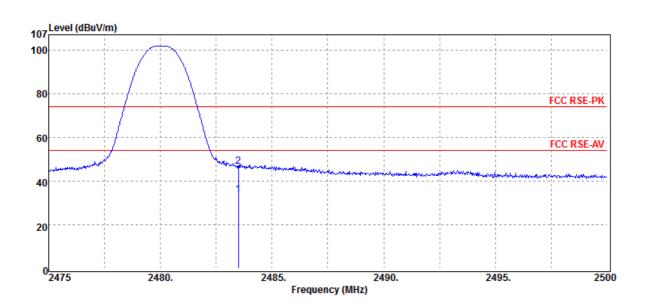
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

:VERTICAL Measurement Antenna Pol.



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin | |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | | Mode | Reading Level | | FS | @3m | | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB | |
| | 2483.50 | E | Average | 35.45 | -1.62 | 33.83 | 54.00 | -20.17 | |
| | 2483.50 | Ε | Peak | 48.21 | -1.62 | 46.59 | 74.00 | -27.41 | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance 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

SGS Taiwan Ltd.



Page 80 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BR(1M) :2480 MHz

:Bandedge CH HIGH

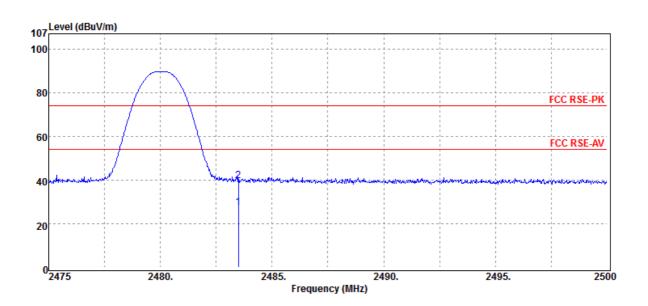
:H Plane

:2017-03-13 **Test Date**

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin | |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | | Mode | Reading Level | | FS | @3m | | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB | |
| | 2483.50 | E | Average | 28.94 | -1.62 | 27.32 | 54.00 | -26.68 | |
| | 2483.50 | Ε | Peak | 41.24 | -1.62 | 39.62 | 74.00 | -34.38 | |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 81 of 129

Operation Band Fundamental Frequency Operation Mode

:EDR(3M) :2402 MHz

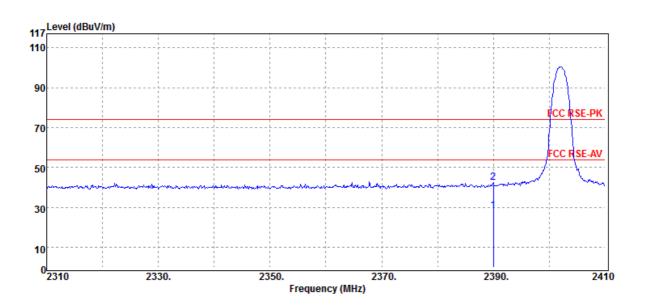
:Bandedge CH LOW

EUT Pol. :H Plane **Test Date** :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

:VERTICAL Measurement Antenna Pol.



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2390.00 | E | Average | 30.10 | -1.74 | 28.36 | 54.00 | -25.64 |
| 2390.00 | Ε | Peak | 44.17 | -1.74 | 42.43 | 74.00 | -31.57 |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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.sgs.com



Page 82 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR(3M) :2402 MHz

:Bandedge CH LOW

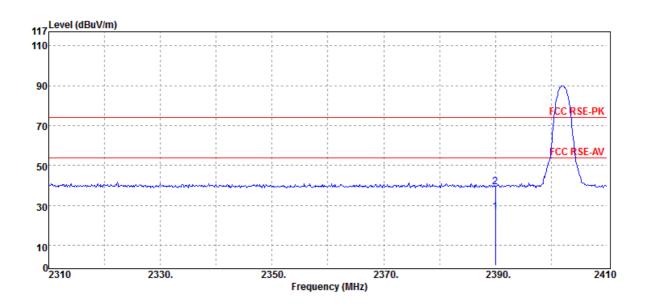
:H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2390.00 | E | Average | 28.41 | -1.74 | 26.67 | 54.00 | -27.33 |
| 2390.00 | Ε | Peak | 41.06 | -1.74 | 39.32 | 74.00 | -34.68 |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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



Page 83 of 129

Operation Band Fundamental Frequency Operation Mode

EUT Pol.

:EDR(3M) :2480 MHz

:Bandedge CH HIGH

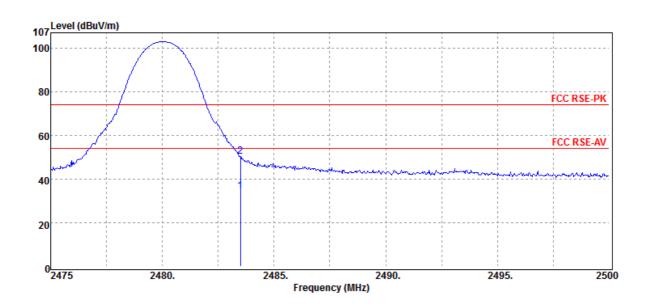
:H Plane

:2017-03-13 **Test Date**

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2483.50 | E | Average | 35.90 | -1.62 | 34.28 | 54.00 | -19.72 |
| 2483.50 | Ε | Peak | 52.07 | -1.62 | 50.45 | 74.00 | -23.55 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 84 of 129

Operation Band Fundamental Frequency Operation Mode

EUT Pol.

:EDR(3M) :2480 MHz

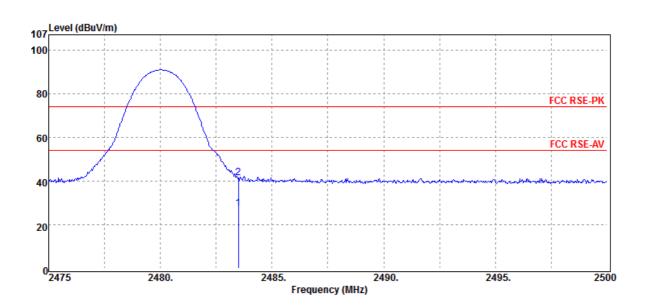
:Bandedge CH HIGH

:H Plane

:2017-03-13 **Test Date**

Temp./Humi. :22 deg_C / 61 RH Engineer

:VERTICAL Measurement Antenna Pol.



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin | |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | | Mode | Reading Level | | FS | @3m | | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB | |
| | 2483.50 | E | Average | 29.18 | -1.62 | 27.56 | 54.00 | -26.44 | |
| | 2483.50 | Ε | Peak | 43.14 | -1.62 | 41.52 | 74.00 | -32.48 | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有说明,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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.sgs.com



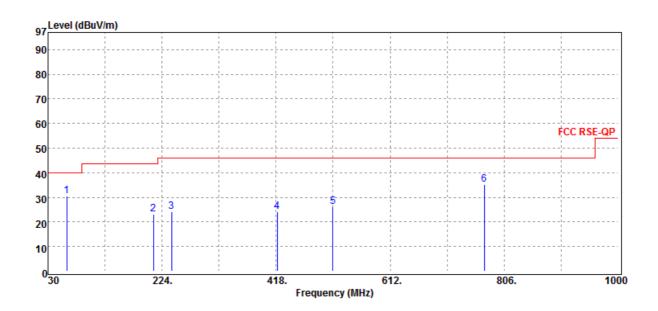
Page 85 of 129

Radiated Spurious Emission Measurement Result: (Worst Case) *Dipole Antenna For Frequency below 1 GHz

Operation Band :2017-03-20 :EDR(3M) **Test Date** Fundamental Frequency Temp./Humi. :2402 MHz :22 deg_C / 61 RH

Operation Mode :Tx CH LOW Engineer :Tin

EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBμV/m | dBµV/m | dB |
| | | | | | | | |
| 62.01 | S | Peak | 39.16 | -8.47 | 30.69 | 40.00 | -9.31 |
| 209.45 | S | Peak | 33.03 | -9.77 | 23.26 | 43.50 | -20.24 |
| 240.49 | S | Peak | 32.17 | -8.04 | 24.13 | 46.00 | -21.87 |
| 419.94 | S | Peak | 27.45 | -3.39 | 24.06 | 46.00 | -21.94 |
| 515.00 | S | Peak | 28.04 | -1.94 | 26.10 | 46.00 | -19.90 |
| 772.05 | S | Peak | 32.44 | 2.68 | 35.12 | 46.00 | -10.88 |

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

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

f (886-2) 2298-0488



Page 86 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

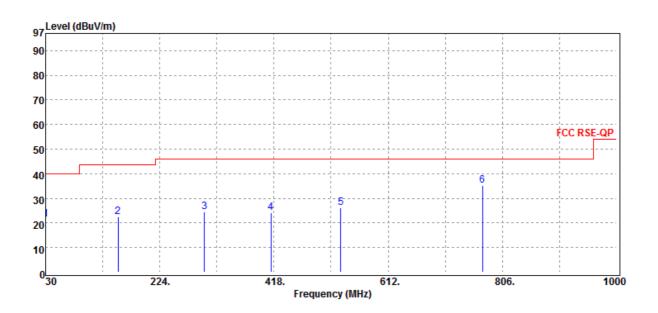
:EDR(3M) :2402 MHz :Tx CH LOW :H Plane

Test Date :2017-03-20

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBμV/m | dBµV/m | dB |
| | | | | | | | |
| 30.00 | S | Peak | 30.63 | -9.19 | 21.44 | 40.00 | -18.56 |
| 153.19 | S | Peak | 30.12 | -7.71 | 22.41 | 43.50 | -21.09 |
| 299.66 | S | Peak | 30.42 | -5.93 | 24.49 | 46.00 | -21.51 |
| 413.15 | S | Peak | 27.44 | -3.38 | 24.06 | 46.00 | -21.94 |
| 531.49 | S | Peak | 27.69 | -1.57 | 26.12 | 46.00 | -19.88 |
| 772.05 | S | Peak | 32.68 | 2.68 | 35.36 | 46.00 | -10.64 |

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 shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 87 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

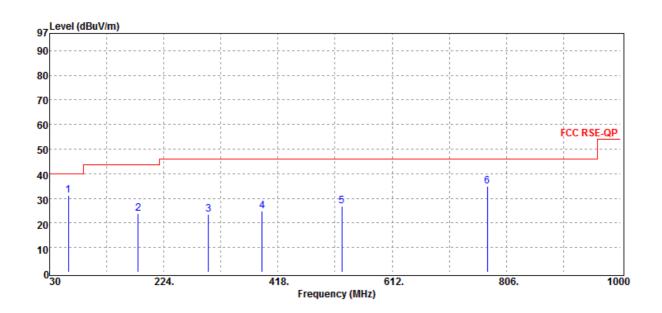
:EDR(3M) :2441 MHz :Tx CH MID :H Plane

Test Date :2017-03-20

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBμV/m | dBµV/m | dB |
| | | | | | | | |
| 62.01 | S | Peak | 39.79 | -8.47 | 31.32 | 40.00 | -8.68 |
| 180.35 | S | Peak | 32.51 | -8.69 | 23.82 | 43.50 | -19.68 |
| 299.66 | S | Peak | 29.54 | -5.93 | 23.61 | 46.00 | -22.39 |
| 390.84 | S | Peak | 29.18 | -4.18 | 25.00 | 46.00 | -21.00 |
| 526.64 | S | Peak | 28.33 | -1.44 | 26.89 | 46.00 | -19.11 |
| 773.99 | S | Peak | 31.99 | 2.78 | 34.77 | 46.00 | -11.23 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 88 of 129

Operation Band Fundamental Frequency Operation Mode

EUT Pol.

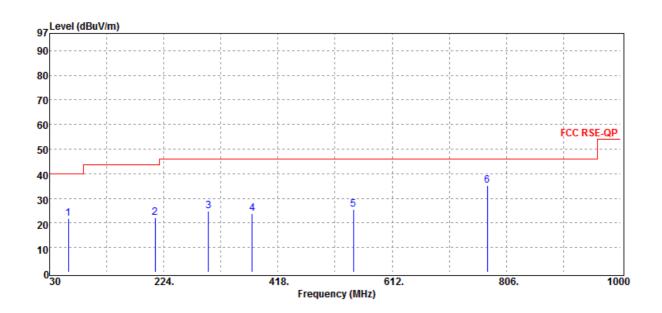
:EDR(3M) :2441 MHz :Tx CH MID :H Plane

Test Date :2017-03-20

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| | | | | | | | |
| 62.01 | S | Peak | 30.32 | -8.47 | 21.85 | 40.00 | -18.15 |
| 209.45 | S | Peak | 31.89 | -9.77 | 22.12 | 43.50 | -21.38 |
| 299.66 | S | Peak | 30.80 | -5.93 | 24.87 | 46.00 | -21.13 |
| 374.35 | S | Peak | 28.30 | -4.54 | 23.76 | 46.00 | -22.24 |
| 546.04 | S | Peak | 26.91 | -1.55 | 25.36 | 46.00 | -20.64 |
| 773.99 | S | Peak | 32.62 | 2.78 | 35.40 | 46.00 | -10.60 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 89 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

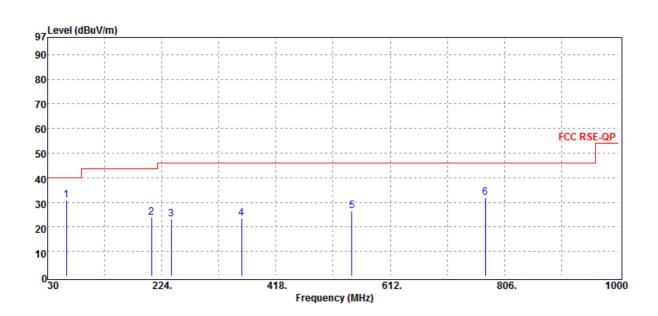
:EDR(3M) :2480 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-20

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBμV/m | dBµV/m | dB |
| | | | | | | | |
| 62.01 | S | Peak | 39.51 | -8.47 | 31.04 | 40.00 | -8.96 |
| 206.54 | S | Peak | 33.62 | -9.71 | 23.91 | 43.50 | -19.59 |
| 240.49 | S | Peak | 31.09 | -8.04 | 23.05 | 46.00 | -22.95 |
| 359.80 | S | Peak | 28.35 | -4.79 | 23.56 | 46.00 | -22.44 |
| 547.01 | S | Peak | 28.35 | -1.68 | 26.67 | 46.00 | -19.33 |
| 773.99 | S | Peak | 29.06 | 2.78 | 31.84 | 46.00 | -14.16 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 90 of 129

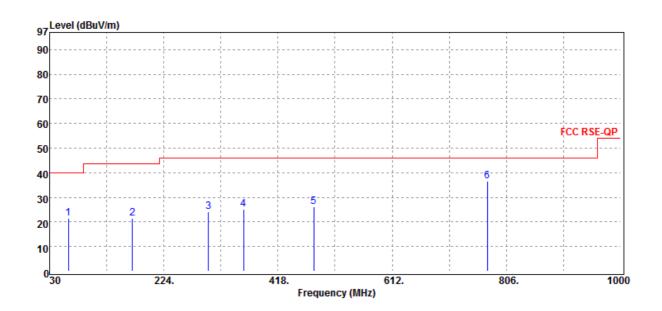
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR(3M) :2480 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-20 Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| | | | | | | | |
| 62.01 | S | Peak | 29.87 | -8.47 | 21.40 | 40.00 | -18.60 |
| 170.65 | S | Peak | 29.23 | -7.66 | 21.57 | 43.50 | -21.93 |
| 299.66 | S | Peak | 29.99 | -5.93 | 24.06 | 46.00 | -21.94 |
| 359.80 | S | Peak | 30.00 | -4.79 | 25.21 | 46.00 | -20.79 |
| 479.11 | S | Peak | 28.71 | -2.39 | 26.32 | 46.00 | -19.68 |
| 773.99 | S | Peak | 33.83 | 2.78 | 36.61 | 46.00 | -9.39 |

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 shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 91 of 129

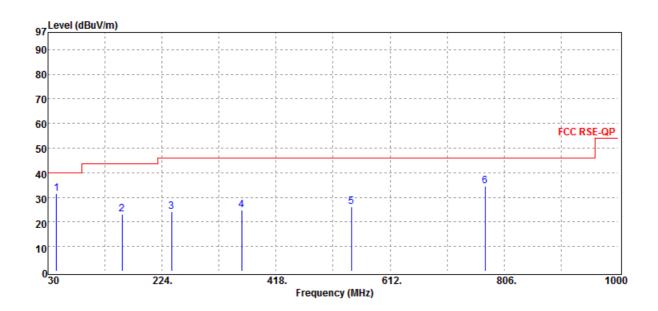
*PCB Antenna

Operation Band :EDR(3M) **Test Date** :2017-03-20

Fundamental Frequency :2402 MHz Temp./Humi. :22 deg_C / 61 RH

:Tx CH LOW **Operation Mode** Engineer

EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBμV/m | dBµV/m | dB |
| | | | | | | | |
| 44.55 | S | Peak | 39.67 | -8.09 | 31.58 | 40.00 | -8.42 |
| 156.10 | S | Peak | 30.70 | -7.61 | 23.09 | 43.50 | -20.41 |
| 240.49 | S | Peak | 32.21 | -8.04 | 24.17 | 46.00 | -21.83 |
| 359.80 | S | Peak | 29.61 | -4.79 | 24.82 | 46.00 | -21.18 |
| 546.04 | S | Peak | 27.75 | -1.55 | 26.20 | 46.00 | -19.80 |
| 773.99 | S | Peak | 31.80 | 2.78 | 34.58 | 46.00 | -11.42 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有说明,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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.sgs.com



Page 92 of 129

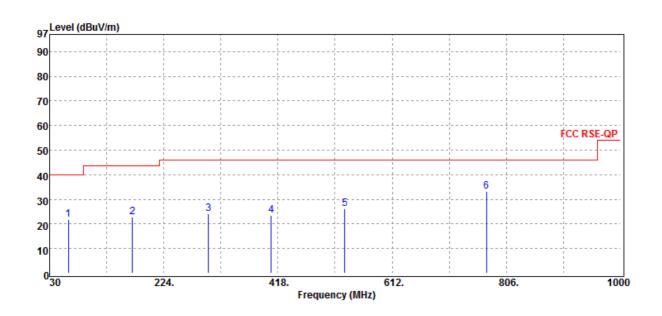
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR(3M) :2402 MHz :Tx CH LOW :H Plane

Test Date :2017-03-20 Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| | | | | | | | |
| 62.01 | S | Peak | 30.26 | -8.47 | 21.79 | 40.00 | -18.21 |
| 170.65 | S | Peak | 30.62 | -7.66 | 22.96 | 43.50 | -20.54 |
| 299.66 | S | Peak | 30.04 | -5.93 | 24.11 | 46.00 | -21.89 |
| 406.36 | S | Peak | 27.23 | -3.59 | 23.64 | 46.00 | -22.36 |
| 531.49 | S | Peak | 27.85 | -1.57 | 26.28 | 46.00 | -19.72 |
| 772.05 | S | Peak | 30.42 | 2.68 | 33.10 | 46.00 | -12.90 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 93 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

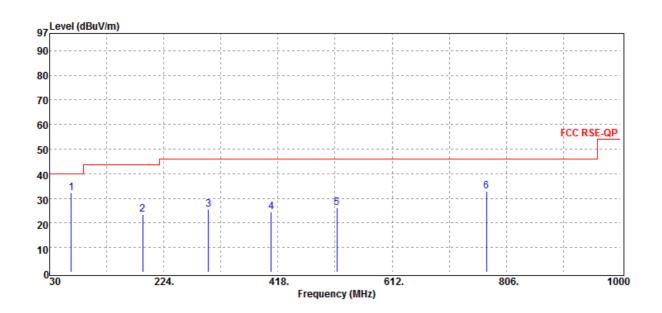
:EDR(3M) :2441 MHz :Tx CH MID :H Plane

Test Date :2017-03-20

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| | | | | | | | |
| 66.86 | S | Peak | 41.90 | -9.58 | 32.32 | 40.00 | -7.68 |
| 188.11 | S | Peak | 32.79 | -9.20 | 23.59 | 43.50 | -19.91 |
| 299.66 | S | Peak | 31.35 | -5.93 | 25.42 | 46.00 | -20.58 |
| 406.36 | S | Peak | 28.19 | -3.59 | 24.60 | 46.00 | -21.40 |
| 517.91 | S | Peak | 28.04 | -1.82 | 26.22 | 46.00 | -19.78 |
| 772.05 | S | Peak | 30.10 | 2.68 | 32.78 | 46.00 | -13.22 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 94 of 129

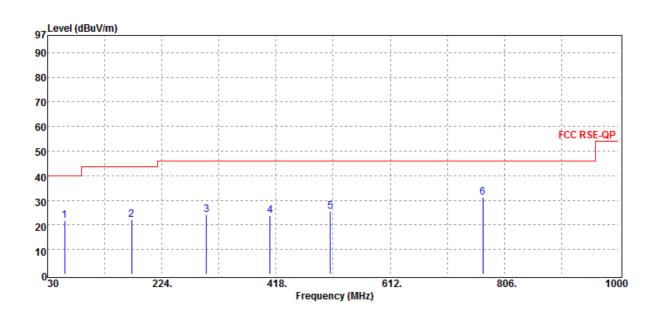
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR(3M) :2441 MHz :Tx CH MID :H Plane

Test Date :2017-03-20 Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBμV/m | dBµV/m | dB |
| | | | | | | | |
| 59.10 | S | Peak | 29.75 | -8.03 | 21.72 | 40.00 | -18.28 |
| 172.59 | S | Peak | 30.07 | -7.86 | 22.21 | 43.50 | -21.29 |
| 299.66 | S | Peak | 30.14 | -5.93 | 24.21 | 46.00 | -21.79 |
| 408.30 | S | Peak | 27.20 | -3.53 | 23.67 | 46.00 | -22.33 |
| 510.15 | S | Peak | 27.69 | -2.19 | 25.50 | 46.00 | -20.50 |
| 769.14 | S | Peak | 28.40 | 2.77 | 31.17 | 46.00 | -14.83 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 95 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

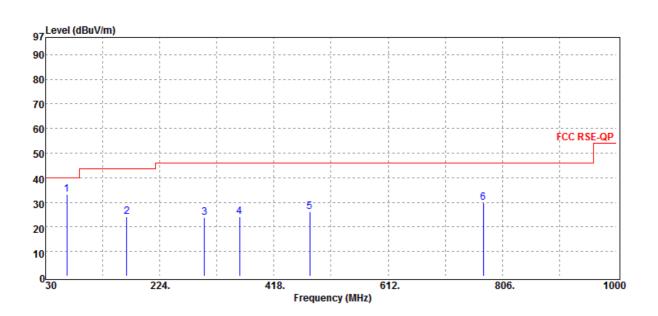
:EDR(3M) :2480 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-20

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| | | | | | | | |
| 65.89 | S | Peak | 42.67 | -9.38 | 33.29 | 40.00 | -6.71 |
| 167.74 | S | Peak | 31.57 | -7.46 | 24.11 | 43.50 | -19.39 |
| 299.66 | S | Peak | 29.91 | -5.93 | 23.98 | 46.00 | -22.02 |
| 359.80 | S | Peak | 28.98 | -4.79 | 24.19 | 46.00 | -21.81 |
| 479.11 | S | Peak | 28.56 | -2.39 | 26.17 | 46.00 | -19.83 |
| 773.99 | S | Peak | 26.99 | 2.78 | 29.77 | 46.00 | -16.23 |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 96 of 129

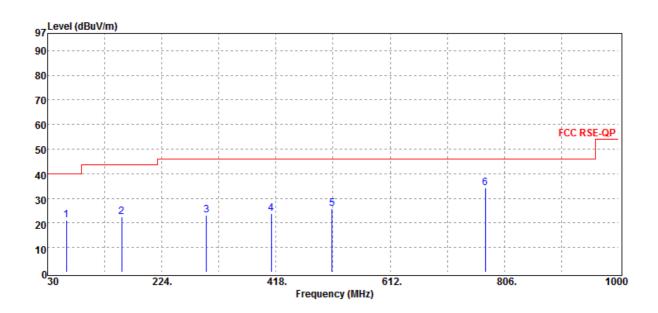
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR(3M) :2480 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-20 Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| | | | | | | | |
| 62.01 | S | Peak | 29.56 | -8.47 | 21.09 | 40.00 | -18.91 |
| 156.10 | S | Peak | 30.16 | -7.61 | 22.55 | 43.50 | -20.95 |
| 299.66 | S | Peak | 29.00 | -5.93 | 23.07 | 46.00 | -22.93 |
| 410.24 | S | Peak | 27.31 | -3.62 | 23.69 | 46.00 | -22.31 |
| 513.06 | S | Peak | 27.75 | -1.89 | 25.86 | 46.00 | -20.14 |
| 773.99 | S | Peak | 31.41 | 2.78 | 34.19 | 46.00 | -11.81 |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 97 of 129

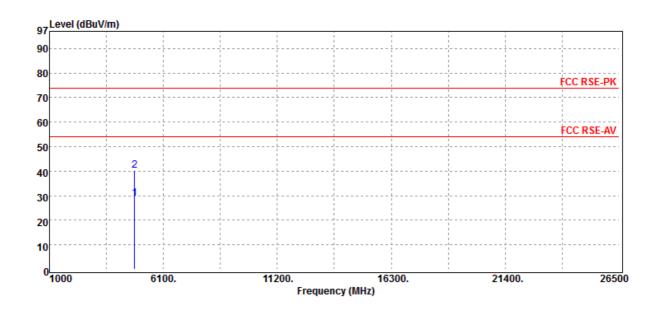
Radiated Spurious Emission Measurement Result: (Worst Case) *Dipole Antenna For Frequency above 1 GHz

Operation Band :2017-03-13 :EDR(3M) **Test Date**

Fundamental Frequency Temp./Humi. :2402 MHz :22 deg_C / 61 RH

Operation Mode :Tx CH LOW Engineer :Tin

EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe | |
|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | Mode | Reading Level | | FS | @3m | Margin | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | |
| | | | | | | | | |
| 4804.00 | Н | Average | 24.07 | 4.92 | 28.99 | 54.00 | -25.01 | |
| 4804.00 | Н | Peak | 35.36 | 4.92 | 40.28 | 74.00 | -33.72 | |

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

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

台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

t (886-2) 2299-3279

f (886-2) 2298-0488



Page 98 of 129

Operation Band :EDR(3M) Fundamental Frequency :2402 MHz

Operation Mode EUT Pol.

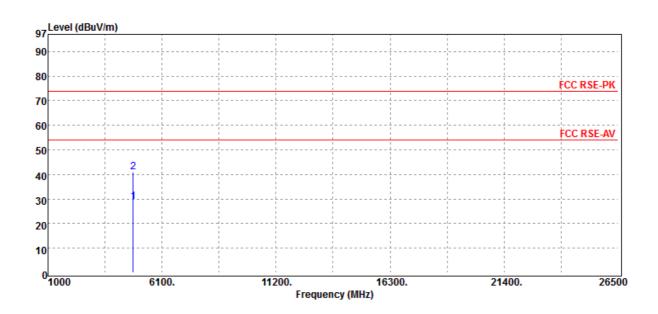
:Tx CH LOW :H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| | Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe | |
|---|---------|---------|----------|---------------|--------|--------|--------|--------|---|
| | | | Mode | Reading Level | | FS | @3m | Margin | |
| _ | MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | _ |
| | | | | | | | | | |
| | 4804.00 | Н | Average | 24.07 | 4.92 | 28.99 | 54.00 | -25.01 | |
| | 4804.00 | Н | Peak | 36.05 | 4.92 | 40.97 | 74.00 | -33.03 | |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 99 of 129

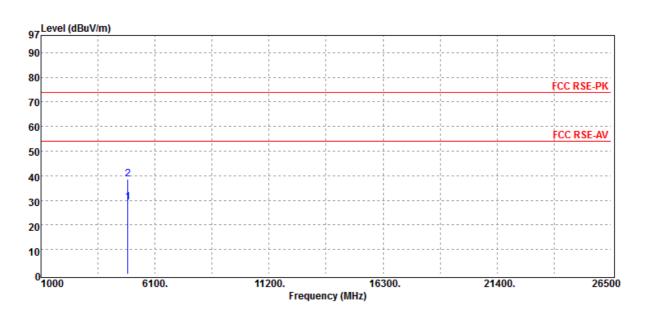
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR(3M) :2441 MHz :Tx CH MID :H Plane

Test Date :2017-03-13 Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe | |
|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | Mode | Reading Level | | FS | @3m | Margin | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | |
| | | | | | | | | |
| 4882.00 | Н | Average | 24.03 | 5.18 | 29.21 | 54.00 | -24.79 | |
| 4882.00 | Н | Peak | 33.38 | 5.18 | 38.56 | 74.00 | -35.44 | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 100 of 129

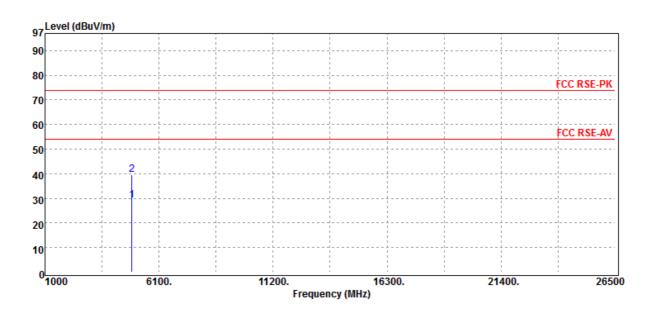
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR(3M) :2441 MHz :Tx CH MID :H Plane

Test Date :2017-03-13 Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe | |
|---------|---------|----------|---------------|--------|--------|--------|--------|---|
| | | Mode | Reading Level | | FS | @3m | Margin | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | _ |
| | | | | | | | | |
| 4882.00 | Н | Average | 24.05 | 5.18 | 29.23 | 54.00 | -24.77 | |
| 4882.00 | Н | Peak | 34.40 | 5.18 | 39.58 | 74.00 | -34.42 | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有说明,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 101 of 129

Operation Band Fundamental Frequency Operation Mode EUT Pol.

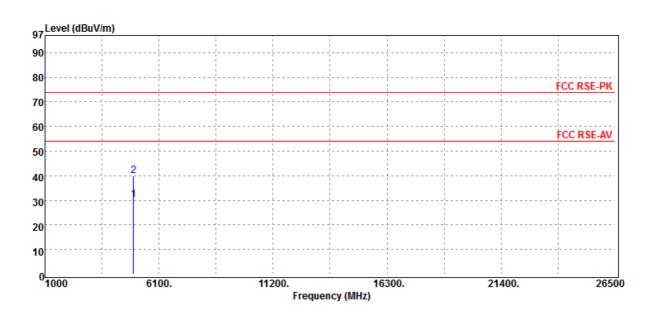
:EDR(3M) :2480 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe | |
|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | Mode | Reading Level | | FS | @3m | Margin | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | |
| | | | | | | | | |
| 4960.00 | Н | Average | 24.81 | 5.29 | 30.10 | 54.00 | -23.90 | |
| 4960.00 | Н | Peak | 34.57 | 5.29 | 39.86 | 74.00 | -34.14 | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 102 of 129

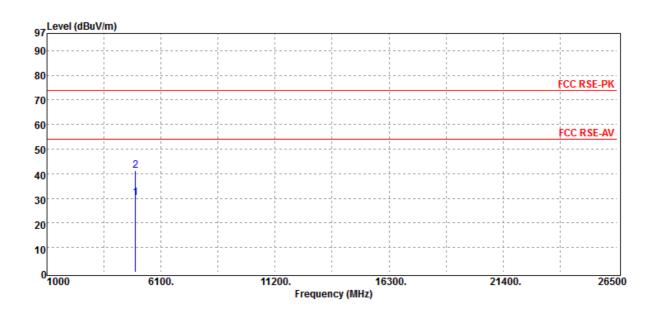
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR(3M) :2480 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-13 Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe | |
|---------|---------|----------|---------------|--------|--------|--------|--------|---|
| | | Mode | Reading Level | | FS | @3m | Margin | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | _ |
| | | | | | | | | |
| 4960.00 | Н | Average | 24.79 | 5.29 | 30.08 | 54.00 | -23.92 | |
| 4960.00 | Н | Peak | 35.91 | 5.29 | 41.20 | 74.00 | -32.80 | |

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 shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



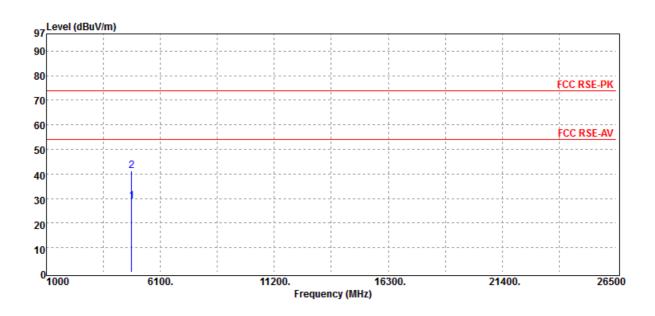
Page 103 of 129

*PCB Antenna

:EDR(3M) Test Date **Operation Band** :2017-03-13

Fundamental Frequency :2402 MHz Temp./Humi. :22 deg C / 61 RH **Operation Mode** :Tx CH LOW Engineer :Tin

EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe | |
|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | Mode | Reading Level | | FS | @3m | Margin | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | |
| | | | | | | | | |
| 4804.00 | Н | Average | 24.00 | 4.92 | 28.92 | 54.00 | -25.08 | |
| 4804.00 | Н | Peak | 36.51 | 4.92 | 41.43 | 74.00 | -32.57 | |

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

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



Page 104 of 129

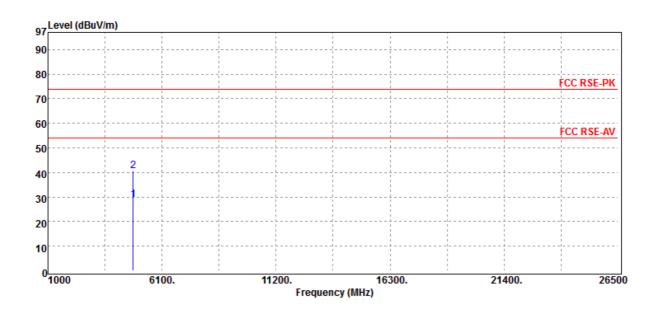
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:EDR(3M) :2402 MHz :Tx CH LOW :H Plane

Test Date :2017-03-13 Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBμV/m | dΒμV/m | dB |
| | | | | | | | |
| 4804.00 | Н | Average | 24.02 | 4.92 | 28.94 | 54.00 | -25.06 |
| 4804.00 | Н | Peak | 35.80 | 4.92 | 40.72 | 74.00 | -33.28 |

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

Unless otherwise stated the results shown in 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,此根告结果僅對测试之樣品負責,同時此樣品僅保留90天。本根告未經本公司書面許可,不可部份複製。
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 appropriate in the full set of this document is undertained. pearance 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



Page 105 of 129

Operation Band Fundamental Frequency Operation Mode

EUT Pol.

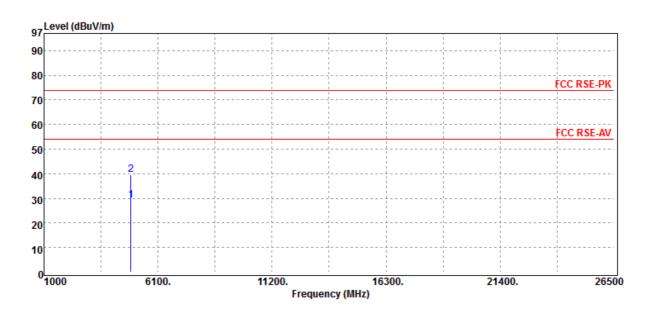
:EDR(3M) :2441 MHz :Tx CH MID :H Plane

Test Date :2017-03-13

Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe | |
|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | Mode | Reading Level | | FS | @3m | Margin | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | |
| | | | | | | | | |
| 4882.00 | Н | Average | 23.96 | 5.18 | 29.14 | 54.00 | -24.86 | |
| 4882.00 | Н | Peak | 34.51 | 5.18 | 39.69 | 74.00 | -34.31 | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 106 of 129

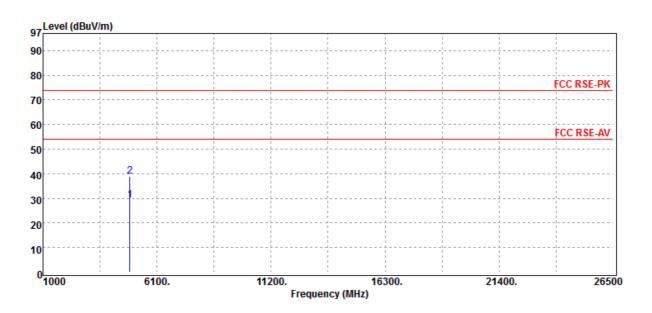
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR(3M) :2441 MHz :Tx CH MID :H Plane

Test Date :2017-03-13 Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe | |
|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | Mode | Reading Level | | FS | @3m | Margin | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | |
| | | | | | | | | |
| 4882.00 | Н | Average | 24.00 | 5.18 | 29.18 | 54.00 | -24.82 | |
| 4882.00 | Н | Peak | 33.60 | 5.18 | 38.78 | 74.00 | -35.22 | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 107 of 129

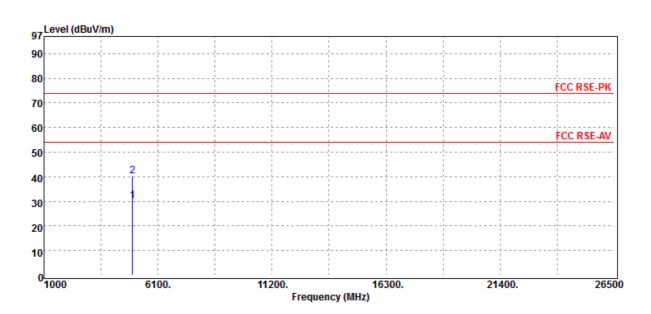
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR(3M) :2480 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-13 Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe | |
|---------|---------|----------|---------------|--------|--------|--------|--------|---|
| | | Mode | Reading Level | | FS | @3m | Margin | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | _ |
| | | | | | | | | |
| 4960.00 | Н | Average | 24.78 | 5.29 | 30.07 | 54.00 | -23.93 | |
| 4960.00 | Н | Peak | 34.87 | 5.29 | 40.16 | 74.00 | -33.84 | |

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 shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 108 of 129

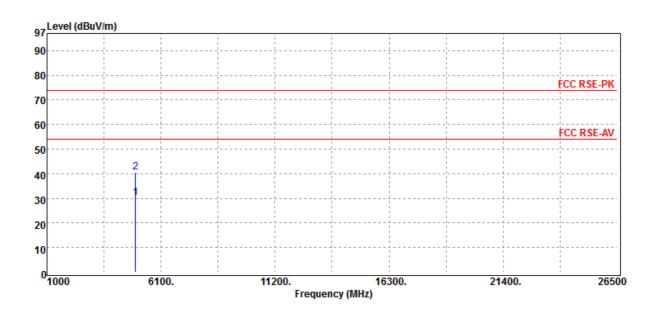
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:EDR(3M) :2480 MHz :Tx CH HIGH :H Plane

Test Date :2017-03-13 Temp./Humi. :22 deg_C / 61 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe | |
|---------|---------|----------|---------------|--------|--------|--------|--------|--|
| | | Mode | Reading Level | | FS | @3m | Margin | |
| MHz | F/H/E/S | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB | |
| | | | | | | | | |
| 4960.00 | Н | Average | 24.79 | 5.29 | 30.08 | 54.00 | -23.92 | |
| 4960.00 | Н | Peak | 35.31 | 5.29 | 40.60 | 74.00 | -33.40 | |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance 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



Page 109 of 129

11 FREQUENCY SEPARATION

11.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

11.2 Measurement Equipment Used

| SGS Conducted Room | | | | | |
|--------------------|---------------|--------------|-------------------|------------|------------|
| EQUIPMENT | MFR | MODEL | SERIAL | LAST | CAL DUE. |
| TYPE | | NUMBER | NUMBER | CAL. | |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/15/2016 | 12/14/2017 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/15/2016 | 12/14/2017 |
| EXA Spectrum | | 1,000,0 | 1 A) (50 4 00 700 | 00/00/0047 | 00/05/0040 |
| Analyzer | Agilent | N9030A | MY53120760 | 02/26/2017 | 02/25/2018 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/05/2017 | 01/04/2018 |
| | HU- | | | | |
| Coaxial Cable | BER+SUHNE | SUCOFLEX 102 | 23670/2 | 01/05/2017 | 01/04/2018 |
| | R | | | | |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/05/2017 | 01/04/2018 |
| Splitter | Agilent | 11636B | N/A | 01/05/2017 | 01/04/2018 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/21/2016 | 11/20/2017 |
| Temperature | TEDOUN | MUO 4001 F | 044000 | 05/47/0040 | 05/40/0047 |
| Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2016 | 05/16/2017 |

11.3 Test Set-up



11.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = middle of hopping channel.
- 5. Set the spectrum analyzer as RBW, VBW=100 kHz, Adjust Span to 5MHz, Sweep = auto.

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

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at 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

f (886-2) 2298-0488



Page 110 of 129

6. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

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

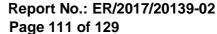
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此根告结果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/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.

SCSChairman** In the 142 MWW. Interview New Taingilicity Elegate With District New Taingilicity Taiwan 24803 ** the Taiwan

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 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

t (886-2) 2299-3279

www.tw.sgs.com





11.5 Measurement Result

| Channel separation (MHz) | Limit | Result |
|--------------------------|---|--------|
| 1 | >=25 kHz or 2/3 times 20dB bandwidth | PASS |

Frequency Separation Test Data



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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. t (886-2) 2299-3279

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 112 of 129

12 NUMBER OF HOPPING FREQUENCY

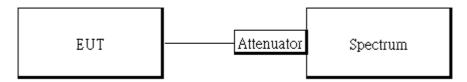
12.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

12.2 Measurement Equipment Used

| SGS Conducted Room | | | | | |
|------------------------|-----------------------|-----------------|------------------|--------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/15/2016 | 12/14/2017 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/15/2016 | 12/14/2017 |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 02/26/2017 | 02/25/2018 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/05/2017 | 01/04/2018 |
| Coaxial Cable | HU- BER+SUHNE R | SUCOFLEX 102 | 23670/2 | 01/05/2017 | 01/04/2018 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/05/2017 | 01/04/2018 |
| Splitter | Agilent | 11636B | N/A | 01/05/2017 | 01/04/2018 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/21/2016 | 11/20/2017 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2016 | 05/16/2017 |

12.3 Test Set-up



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

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,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 113 of 129

12.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- 5. Set the spectrum analyzer as RBW=430 kHz, VBW=1.5MHz., Detector = Peak
- 6. Max hold, view and count how many channel in the band.

12.5 Measurement Result

Tabular Data of Total Channel Number

| | Channel Number | Limit |
|-----------------------|----------------|-------|
| 2.4 GHz – 2.441GHz | 40 | |
| 2.441 GHz – 2.4835GHz | 39 | >15 |
| 2.4GHz ~2.4835GHz | (40+39) = 79 | |

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

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



Channel Number

2.4 GHz - 2.441GHz



2.441 GHz - 2.4835GHz



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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for you gays only. 除非另有说明,此根告结果僅對測述之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
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 in the decironic 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 appropriate in the full less of this deciration. pearance 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 115 of 129

13 TIME OF OCCUPANCY (DWELL TIME)

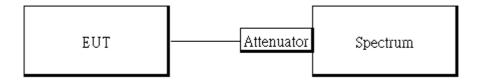
13.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

13.2 Measurement Equipment Used

| SGS Conducted Room | | | | | |
|------------------------|-----------------------|--------------|------------|------------|------------|
| EQUIPMENT | MFR | MODEL | SERIAL | LAST | CAL DUE. |
| TYPE | | NUMBER | NUMBER | CAL. | |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/15/2016 | 12/14/2017 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/15/2016 | 12/14/2017 |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 02/26/2017 | 02/25/2018 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/05/2017 | 01/04/2018 |
| Coaxial Cable | HU- BER+SUHNE R | SUCOFLEX 102 | 23670/2 | 01/05/2017 | 01/04/2018 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/05/2017 | 01/04/2018 |
| Splitter | Agilent | 11636B | N/A | 01/05/2017 | 01/04/2018 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/21/2016 | 11/20/2017 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2016 | 05/16/2017 |

13.3 Test Set-up



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

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,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 116 of 129

13.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = operating frequency.
- 5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz, Detector = Peak, Adjust Sweep = 2~8ms.
- 6. Repeat above procedures until all frequency of the interest measured were complete.

Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels.

Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively.

DH1 consists of single time slot of the uplink, and one slot of the downlink Total Slot: 2

DH3 consists of three time slot of the uplink, and one slot of the downlink. Total Slot: 4

DH5 consists of five time slot of the uplink, and one slot of the downlink. Total Slot: 6

In AFH mode, hopping rate is 800 hop/s with 6 slots in 20 hopping channels with channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 * 20) (S), Hop Over Occupancy Time comes to (800 / 6 / 20)*(0.4*20) = 53.33

Note: the result of the complete test default channel at 1Mbps is recorded on the test report, 2Mbps, and 3Mbps only records the measurement result at middle channel that reveals no much deviation.

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

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 endocument.htm.

Attention is drawn to the limitation of liability, indemnification and and conditions.htm and, for elecjurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery 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 117 of 129

13.5 Tabular Result of the Measurement

GFSK (1Mbps)

| GI SK (IMBPS) | | | |
|----------------|-------------|--------------------|-------|
| Channel | PACKET TYPE | Measurement Result | Limit |
| Onamici | TAORETTITE | (ms) | (ms) |
| | DH1 | 108.80 | 400ms |
| 0 | DH3 | 256.00 | 400ms |
| | DH5 | 304.00 | 400ms |
| | DH1 | 108.80 | 400ms |
| 39 | DH3 | 256.00 | 400ms |
| | DH5 | 304.00 | 400ms |
| | DH1 | 112.00 | 400ms |
| 78 | DH3 | 256.00 | 400ms |
| | DH5 | 304.00 | 400ms |

π/4 DQPSK (2Mbps)

| Channel | PACKET TYPE | Measurement Result (ms) | Limit (ms) |
|---------|-------------|-------------------------|---------------|
| | DH1 | 115.20 | 400ms |
| 39 | DH3 | 256.00 | 400ms |
| | DH5 | 304.00 | 400ms |

8-DPSK (3Mbps)

| Channel | PACKET TYPE | Measurement Result (ms) | Limit (ms) |
|---------|-------------|-------------------------|---------------|
| | DH1 | 112.00 | 400ms |
| 39 | DH3 | 257.60 | 400ms |
| | DH5 | 304.00 | 400ms |

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果僅對测试之樣品負責,同時此樣品僅保留到05元。本棋会未经本公司書面好可,不可部份複製。
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 unawful and offenders may be prosecuted to the full less extent of the less. 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



A period time = 0.4 (s) * 79 = 31.6 (s)

GFSK (1Mbps):

| • | - 1 | | | | | | |
|---------------|-----------------|---------|-------------|--------|---|--------|------|
| CH Low | DH1 time slot = | 0.340 * | (1600/2/79) | * 31.6 | = | 108.80 | (ms) |
| | DH3 time slot = | 1.600 * | (1600/4/79) | * 31.6 | = | 256.00 | (ms) |
| | DH5 time slot = | 2.850 * | (1600/6/79) | * 31.6 | = | 304.00 | (ms) |
| | | | | | | | |
| CH Mid | DH1 time slot = | 0.340 * | (1600/2/79) | * 31.6 | = | 108.80 | (ms) |
| | DH3 time slot = | 1.600 * | (1600/4/79) | * 31.6 | = | 256.00 | (ms) |
| | DH5 time slot = | 2.850 * | (1600/6/79) | * 31.6 | = | 304.00 | (ms) |
| | | | | | | | |
| CH High | DH1 time slot = | 0.350 * | (1600/2/79) | * 31.6 | = | 112.00 | (ms) |
| | DH3 time slot = | 1.600 * | (1600/4/79) | * 31.6 | = | 256.00 | (ms) |
| | DH5 time slot = | 2.850 * | (1600/6/79) | * 31.6 | = | 304.00 | (ms) |
| | | | | | | | |
| π/4 -DQPS | K (2Mbps): | | | | | | |
| CH Mid | 2DH1 time slo = | 0.360 * | (1600/2/79) | * 31.6 | = | 115.20 | (ms) |
| | 2DH3 time slo = | | (/ | | | | ٠, |
| | 2DH5 time slo = | 2.850 * | (1600/6/79) | * 31.6 | = | 304.00 | (ms) |
| | | | | | | | |
| 2 2 2 2 4 4 2 | | | | | | | |

8-DPSK (3Mbps):

| CH Mid | 3DH1 time slo = | 0.350 * | (1600/2/79) * | 31.6 = | 112.00 (ms) |
|--------|-----------------|---------|---------------|--------|-------------|
| | 3DH3 time slo = | 1.610 * | (1600/4/79) * | 31.6 = | 257.60 (ms) |
| | 3DH5 time slo = | 2.850 * | (1600/6/79) * | 31.6 = | 304.00 (ms) |

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

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 119 of 129

| GFSK (1Mbps) for AFH Mode | | | | | |
|---------------------------|-----------------------------|----------------------------|---------------|--|--|
| Hopping Channel Number | PACKET TYPE | Measurement Result (ms) | Limit (ms) | | |
| 20 | DH5 | 152.00 | 400ms | | |
| | π/4 DQPSK (2N | Mbps) for Mode | | | |
| Hopping Channel Number | PACKET TYPE | Measurement Result (ms) | Limit (ms) | | |
| 20 | DH5 | 152.00 | 400ms | | |
| | 8-DPSK (3Mbps) for AFH Mode | | | | |
| Hopping | PACKET TYPE | Measurement | Limit | | |
| Channel Number | | Result (ms) | (ms) | | |
| 20 | DH5 | 152.00 | 400ms | | |

GFSK (1Mbps):

DH5 time s = 2.850 (ms) * (800/6/20) * 8 = 152.00 (ms)

π/4 -DQPSK (2Mbps

2DH5 time = 2.850 (800/6/20) * 8 =(ms) * 152.00 (ms)

8-DPSK (3Mbps):

3DH5 time =2.850 (ms) * (800/6/20) * 8 = 152.00 (ms)

13.6 Measurement Result

Note: Refer to next page for plots.

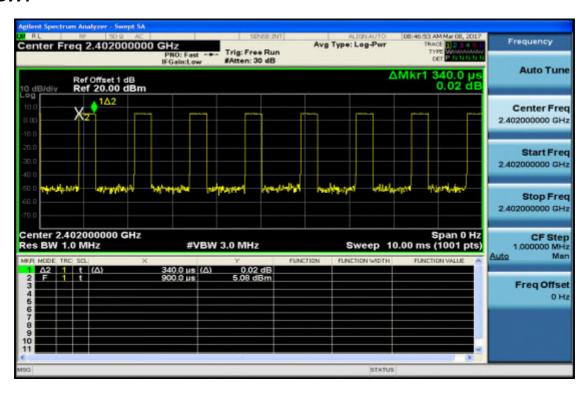
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果懂到满述之樣品負責,同時比提品僅保留的天。本根各是基本公司者面好了,不可部份複製。
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 unavited and the processor of the company. pearance 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

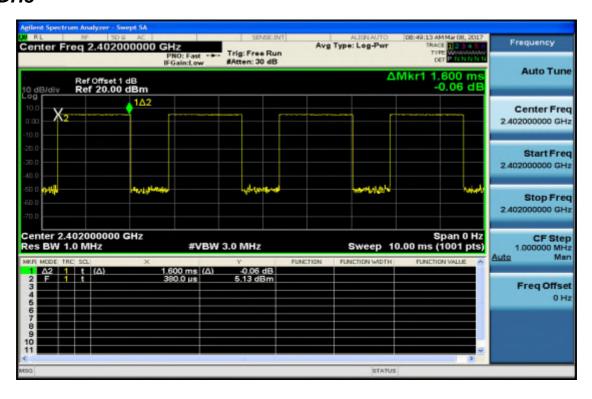
t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com



CH-Low DH1



DH3



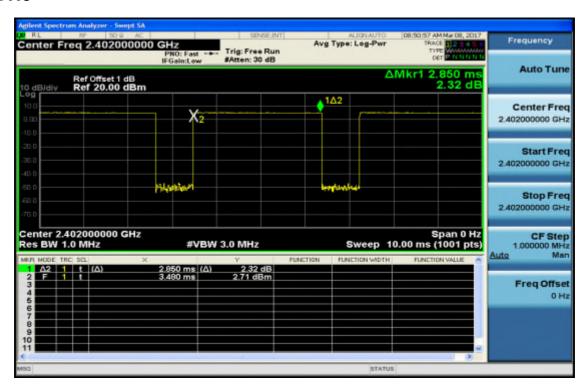
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果僅對测试之樣品負責,同時此樣品僅保留到05元。本棋会未经本公司書面好可,不可部份複製。
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 unawful and offenders may be prosecuted to the full less extent of the less. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

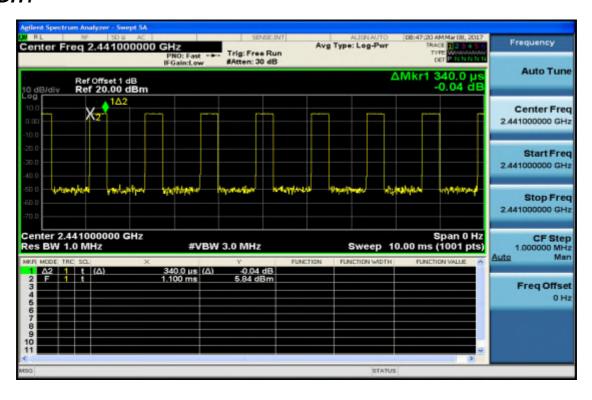
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd. www.tw.sgs.com



DH₅



CH-Mid DH1



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

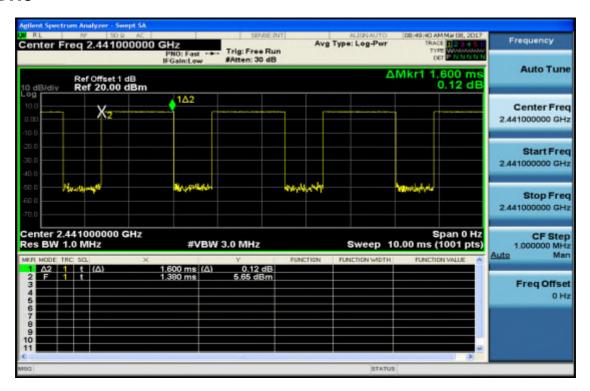
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果僅對测试之樣品負責,同時此樣品僅保留到05元。本棋会未经本公司書面好可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, 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 unawful and offenders may be prosecuted to the full less extent of the less. pearance 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. www.tw.sgs.com

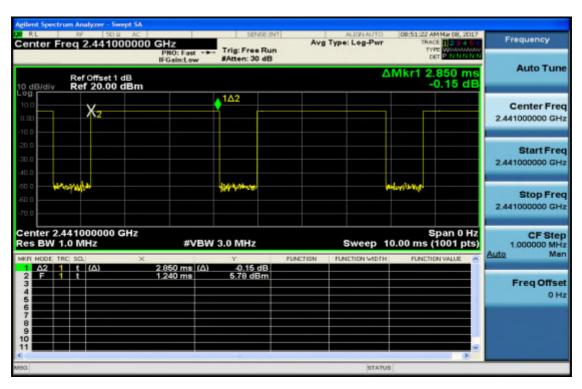
台灣檢驗科技股份有限公司



DH3



DH₅



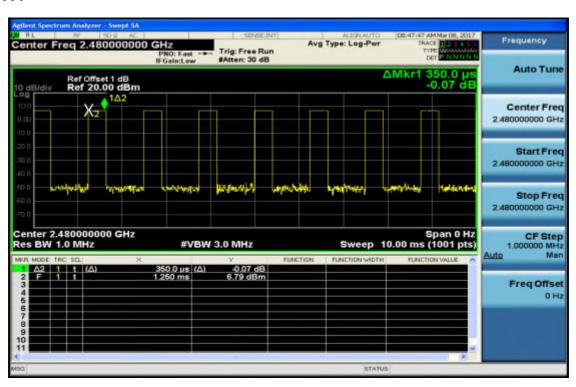
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果僅對测试之樣品負責,同時此樣品僅保留到05元。本棋会未经本公司書面好可,不可部份複製。
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 unawful and offenders may be prosecuted to the full less extent of the less. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

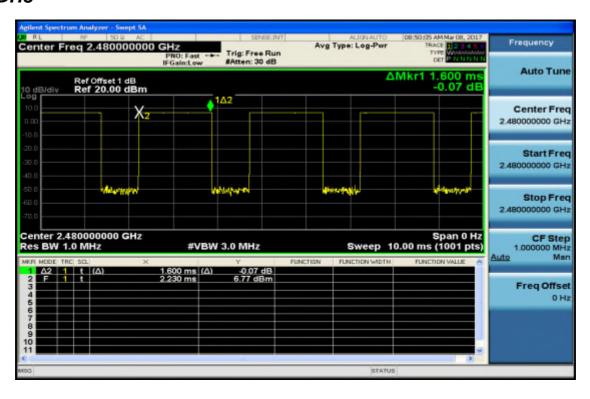
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號



CH-High DH1



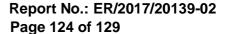
DH3



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

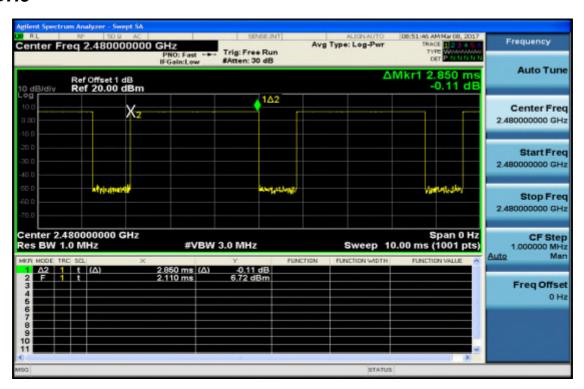
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果僅對测试之樣品負責,同時此樣品僅保留到05元。本棋会未经本公司書面好可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, 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 unawful and offenders may be prosecuted to the full less extent of the less. pearance 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





DH₅

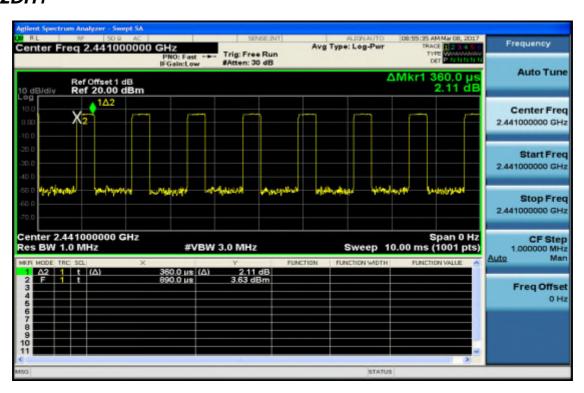


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

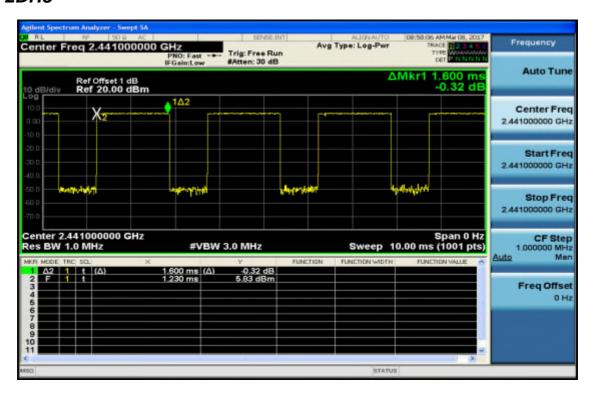
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果僅對测试之樣品負責,同時此樣品僅保留到05元。本棋会未经本公司書面好可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, 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 unawful and offenders may be prosecuted to the full less extent of the less. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



CH-Mid 2DH1



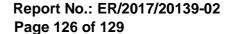
2DH3



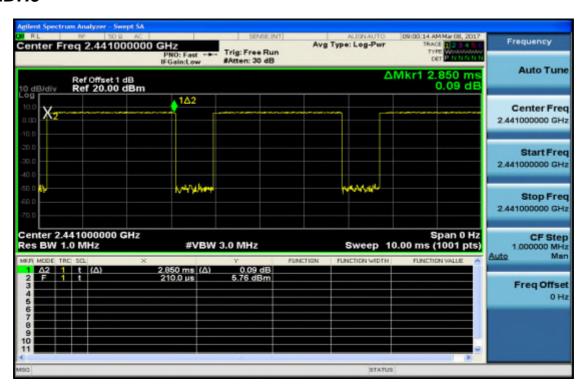
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果僅對测试之樣品負責,同時此樣品僅保留到05元。本棋会未经本公司書面好可,不可部份複製。
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 unawful and offenders may be prosecuted to the full less extent of the less. pearance 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. t (886-2) 2299-3279 f (886-2) 2298-0488



2DH5

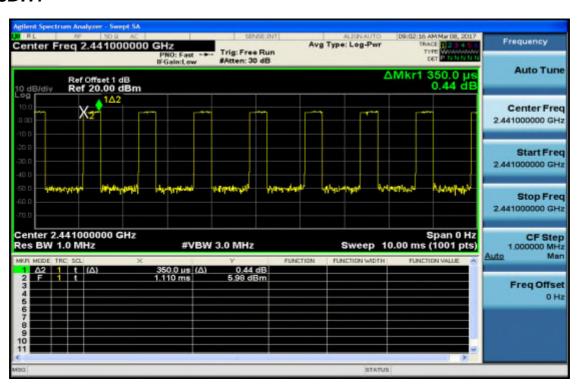


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

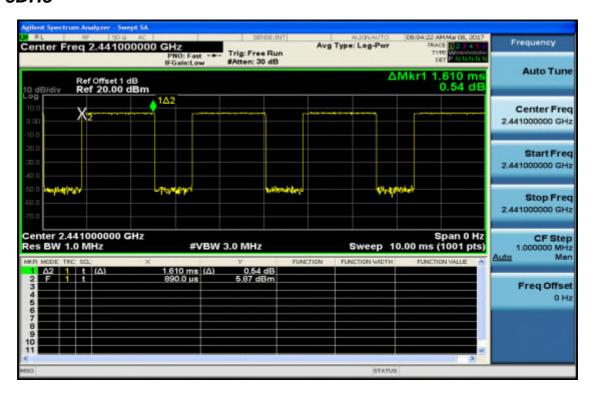
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果僅對测试之樣品負責,同時此樣品僅保留到05元。本棋会未经本公司書面好可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, 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 unawful and offenders may be prosecuted to the full less extent of the less. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



CH-Mid 3DH1



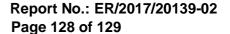
3DH3



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

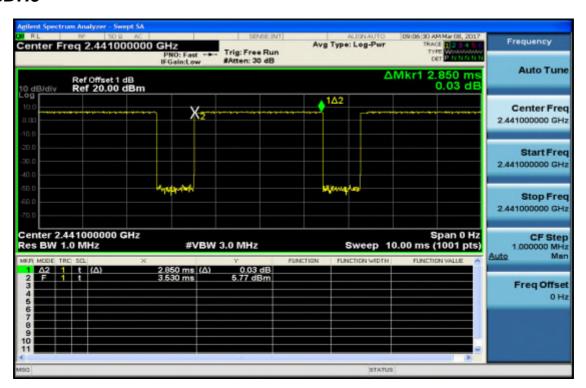
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果僅對测试之樣品負責,同時此樣品僅保留到05元。本棋会未经本公司書面好可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, 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 unawful and offenders may be prosecuted to the full less extent of the less. pearance 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. www.tw.sgs.com





3DH5



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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有波明,此根告结果僅對测试之樣品負責,同時此樣品僅保留到05元。本棋会未经本公司書面好可,不可部份複製。
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 unawful and offenders may be prosecuted to the full less extent of the less. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page 129 of 129

14 ANTENNA REQUIREMENT

14.1 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.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

According to RSS-GEN 8.3

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.9 When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

14.2 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.

~ 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.

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

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,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.sgs.com