

Rev: 01

Page: 1 of 44

Appendix B - DAE & Probe Calibration Certificate

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura

S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

SGS-TW (Auden)

Accreditation No.: SCS 0108

C

Certificate No: DAE4-1260_Nov18 **CALIBRATION CERTIFICATE** DAE4 - SD 000 D04 BM - SN: 1260 OA CAL-06 V29 Calibration procedure(s) Calibration procedure for the data acquisition electronics (DAE) Calibration date: November 30, 2018 This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards 1D # Cal Date (Certificate No.) Scheduled Calibration Kelthley Multimeter Type 2001 SN: 0810278 Sep-19 Secondary Standards ID# Check Date (in house) Scheduled Check SE UWS 053 AA 1001 04-Jan-18 (in house check) Auto DAE Calibration Unit In house check: Jan-19 Calibrator Box V2.1 SE UMS 006 AA 1002 04-Jan-18 (in house check) In house check: Jan-19 Calibrated by: Dominique Steffen Laboratory Technician Sven Kühn Deputy Manager Approved by: Issued: November 30, 2018 This calibration certificate shall not be reproduced except in full without written approval of the laboratory

Certificate No: DAE4-1260_Nov18

Page 1 of 5

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

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

documents, subject to Terms and Conditions for Electronic Documents at www.sqs.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.



Rev: 01

Page: 2 of 44

Calibration Laboratory of Schmid & Partner Engineering AG sstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst S Service suisse d'étalonnage C Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary

DAF data acquisition electronics

Connector angle information used in DASY system to align probe sensor X to the robot

coordinate system.

Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this
 - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
 - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
 - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
 - Input Offset Measurement. Output voltage and statistical results over a large number of zero voltage measurements.
 - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
 - Power consumption: Typical value for information. Supply currents in various operating

Certificate No: DAE4-1260 Nov18

Page 2 of 5

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

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



Rev: 01

Page: 3 of 44

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1µV , full range = -100...+300 mV Low Range: 1LSB = 61nV tull range = -1.....+3mV DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | X | Y | . Z |
|---------------------|-----------------------|-----------------------|-----------------------|
| High Range | 404.190 ± 0.02% (k=2) | 404.604 ± 0.02% (k=2) | 404,793 ± 0.02% (k=2) |
| Low Range | 3.99161 ± 1.50% (k=2) | 4.00001 ± 1.50% (k=2) | 4.00892 ± 1.50% (k=2) |

Connector Angle

| Zerowania wa wakazi wa kata wa | The company of the |
|--|--------------------|
| Connector Angle to be used in DASY system | 341.5°±1° |

Certificate No: DAE4-1260_Nov18

Page 3 of 5

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

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

f (886-2) 2298-0488

SGS Taiwan Ltd.



Rev: 01

Page: 4 of 44

Appendix (Additional assessments outside the scope of SCS0108)

| High Range | Reading (µV) | Difference (μV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 200033.72 | -1.26 | , -0.00 |
| Channel X + Input | 20003.07 | -2.10 | -0.01 |
| Channel X - Input | -20003.16 | 2.78 | -0.01 |
| Channel Y + Input | 200038.25 | 3.73 | 0.00 |
| Channel Y + Input | 20002.41 | -2.63 | -0.01 |
| Channel Y - Input | -20006.86 | -0.69 | 0.00 |
| Channel Z + Input | 200033.80 | -1.16 | -0.00 |
| Channel Z + Input | 20001.51 | -3.36 | -0.02 |
| Channel Z - Input | -20006.68 | -0.48 | 0.00 |

| Low Range | Reading (µV) | Difference (µV) | Error (%) |
|-------------------|--------------|-----------------|-----------|
| Channel X + Input | 2001.18 | 0.25 | 0.01 |
| Channel X + Input | 200.87 | -0.09 | -0.04 |
| Channel X - Input | -198.21 | -0.79 | -0.40 |
| Channel Y + Input | 2001.05 | 0.24 | 0.01 |
| Channel Y + Input | 199.97 | -0.89 | -0.44 |
| Channel Y - Input | -199.76 | -0.64 | 0.32 |
| Channel Z + Input | 2000.74 | 0.04 | 0,00 |
| Channel Z + Input | 199.77 | -1.03 | -0.51 |
| Channel Z - Input | -200.48 | -1.28 | 0.64 |

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec: Measuring time: 3 sec

| | Common mode Input Voltage (mV) | High Range Average Reading (μV) | Low Range Average Reading (μV) |
|-----------|-----------------------------------|------------------------------------|-----------------------------------|
| Channel X | 200 | -0.90 | -2.92 |
| | - 200 | 4.87 | 2.75 |
| Channel Y | 200 | -5.45 | -5.41 |
| | - 200 | 4.55 | 4.20 |
| Channel Z | 200 | -16.55 | -16.45 |
| | - 200 | 13.88 | 14.44 |

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Input Voltage (mV) | Channel X (μV) | Channel Y (µV) | Channel Z (µV) |
|-----------|--------------------|----------------|----------------|----------------|
| Channel X | 200 | | 0.68 | -5.24 |
| Channel Y | 200 | 8.97 | | 1.84 |
| Channel Z | 200 | 10.48 | 5.66 | 2 |

Certificate No: DAE4-1260_Nov18

Page 4 of 5

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

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



Rev: 01

Page: 5 of 44

4. AD-Converter Values with inputs shorted

| | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 16236 | 16097 |
| Channel Y | 15859 | 16057 |
| Channel Z | 18152 | 16351 |

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10MΩ

| | Average (μV) | min. Offset (μV) | max. Offset (μV) | Std. Deviation (µV) |
|-----------|--------------|------------------|------------------|---------------------|
| Channel X | 0.63 | -0.78 | 1,69 | 0.43 |
| Channel Y | 0.10 | -0.90 | 1.53 | 0.41 |
| Channel Z | -1.03 | -2.00 | 0.10 | 0.44 |

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

| 40 | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200 | 200 |
| Channel Y | 200 | 200 |
| Channel Z | 200 | 200 |

8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) | |
|----------------|-------------------|--|
| Supply (+ Vcc) | +7.9 | |
| Supply (- Vcc) | -7.6 | |

9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01 | +6 | +14 |
| Supply (- Vcc) | -0.01 | -8 | -9 |

Certificate No: DAE4-1260_Nov18

Page 5 of 5

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

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



Rev: 01

Page: 6 of 44

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client

SGS-TW (Auden)

Certificate No: EX3-3938 Oct18

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:3938

Calibration procedure(s)

QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v4, QA CAL-23.v5, QA

CAL-25.v6

Calibration procedure for dosimetric E-field probes

Calibration date:

October 24, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility; environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP | SN: 104778 | 04-Apr-18 (No. 217-02672/02673) | Apr-19 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-18 (No. 217-02672) | Apr-19 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-18 (No. 217-02673) | Apr-19 |
| Reference 20 dB Attenuator | SN: S5277 (20x) | 04-Apr-18 (No. 217-02682) | Apr-19 |
| Reference Probe ES3DV2 | SN: 3013 | 30-Dec-17 (No. ES3-3013_Dec17) | Dec-18 |
| DAE4 | SN: 660 | 21-Dec-17 (No. DAE4-660_Dec17) | Dec-18 |
| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
| Power meter E4419B | SN: GB41293874 | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A | SN: MY41498087 | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A | SN: 000110210 | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| RF generator HP 8648C | SN: US3642U01700 | 04-Aug-99 (in house check Jun-18) | In house check: Jun-20 |
| Network Analyzer E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-18) | In house check: Oct-19 |

| | Name | Function | Signature |
|---------------|----------------|-----------------------|--------------------------|
| Calibrated by | Jeton Kastrati | Laboratory Technician | 12/1 |
| Approved by: | Katja Pokovic | Technical Manager | RRAG |
| | | | fssued: October 24, 2018 |

Certificate No: EX3-3938_Oct18

Page 1 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非早有說明,併報告結果僅聚的計畫,同時什樣品僅保留的天。木報告未經木公司書面許可,不可部份複製。

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sg.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sg.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,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

www.tw.sas.com



Rev: 01

Page: 7 of 44

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst S Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

tissue simulating liquid TSL NORMx,y,z sensitivity in free space ConvF sensitivity in TSL / NORMx,y,z DCP diode compression point

crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters A, B, C, D

Polarization φ φ rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 0 is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement
- Techniques", June 2013
 IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
 IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices
- used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010 d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz; R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.

 PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal
- characteristics
- Ax.y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No: EX3-3938_Oct18

Page 2 of 39

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

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



Rev: 01

Page: 8 of 44

EX3DV4 - SN:3938

October 24, 2018

Probe EX3DV4

SN:3938

Manufactured: May 2, 2013 Calibrated: October 24, 2018

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

Certificate No: EX3-3938_Oct18

Page 3 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非早有說明,什報告結果僅享到到於了樣品負責,同時什樣品僅享到到了。木報告未經太公司事而許可,不可部份複數。

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

f (886-2) 2298-0488

SGS Taiwan Ltd. |



Rev: 01

Page: 9 of 44

EX3DV4-SN:3938

October 24, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|--------------------------|----------|----------|----------|---------------|
| Norm $(\mu V/(V/m)^2)^A$ | 0.51 | 0.57 | 0.33 | ± 10.1 % |
| DCP (mV) ^B | 103.2 | 100.3 | 107.8 | _ 7,64,37,370 |

Modulation Calibration Parameters

| UID | Communication System Name | | A dB | B dBõV | C | D dB | VR mV | Unc [±] (k=2) |
|-----|---------------------------|---|---------|-----------|-----|---------|----------|---------------------------|
| 0 | CW | X | 0.0 | 0.0 | 1.0 | 0.00 | 164.0 | ±3.5 % |
| | | Y | 0.0 | 0.0 | 1.0 | | 174.2 | |
| | | Z | 0.0 | 0.0 | 1.0 | _ | 176.3 | |

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

| | C1 fF | C2 fF | Q V-1 | T1 ms.V ⁻² | T2 ms.V ⁻¹ | T3 ms | T4 V-2 | T5 V-1 | T6 |
|----|----------|----------|----------|--------------------------|--------------------------|----------|-----------|-----------|-------|
| X | 59.09 | 436,9 | 35.15 | 26.09 | 1.205 | 5.10 | 1.012 | 0.575 | 1.009 |
| Y. | 53.22 | 408,3 | 37.24 | 24.25 | 1,457 | 5.10 | 0.000 | 0.766 | 1.013 |
| Z | 46.65 | 332.5 | 32.92 | 15.26 | 1.153 | 4.98 | 2.000 | 0.225 | 1.006 |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: EX3-3938_Oct18

Page 4 of 39

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

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

A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

Numerical linearization parameter; uncertainty not required

Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the



Rev: 01

Page: 10 of 44

EX3DV4-SN:3938

October 24, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^c | Relative Permittivity F | Conductivity (S/m) ^F | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc (k=2) |
|----------------------|----------------------------|------------------------------------|---------|---------|---------|--------------------|-------------------------|--------------|
| 750 | 41.9 | 0.89 | 9.82 | 9.82 | 9.82 | 0.45 | 0.80 | ± 12.0 % |
| 835 | 41.5 | 0.90 | 9.50 | 9.50 | 9.50 | 0.50 | 0.85 | ± 12.0 % |
| 900 | 41.5 | 0.97 | 9.25 | 9.25 | 9.25 | 0.33 | 1.04 | ± 12.0 % |
| 1450 | 40.5 | 1.20 | 8,53 | 8.53 | 8.53 | 0.30 | 0.86 | ± 12.0 % |
| 1750 | 40.1 | 1.37 | 8.32 | 8.32 | 8.32 | 0.36 | 0.90 | ± 12.0 % |
| 1900 | 40.0 | 1.40 | 7.95 | 7.95 | 7.95 | 0.29 | 0.90 | ± 12.0 % |
| 2000 | 40.0 | 1.40 | 7,93 | 7.93 | 7.93 | 0.36 | 0.80 | ± 12.0 % |
| 2300 | 39.5 | 1.67 | 7.59 | 7.59 | 7.59 | 0.37 | 0.80 | ± 12.0 % |
| 2450 | 39.2 | 1.80 | 7.17 | 7.17 | 7.17 | 0.38 | 0.83 | ± 12.0 % |
| 2600 | 39.0 | 1.96 | 7.11 | 7.11 | 7.11 | 0.38 | 0.87 | ± 12.0 % |
| 5250 | 35.9 | 4.71 | 5.00 | 5.00 | 5.00 | 0.40 | 1.80 | ± 13.1 % |
| 5600 | 35.5 | 5.07 | 4.65 | 4.65 | 4.65 | 0.40 | 1.80 | ± 13.1 % |
| 5750 | 35.4 | 5.22 | 4.76 | 4.76 | 4.76 | 0.40 | 1.80 | ± 13.1 % |

^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± ±10 MHz.

**All frequencies below 3 GHz, the validity of tissue parameters (ε and α) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and α) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

**Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip-diameter from the boundary.

Certificate No: EX3-3938_Oct18

Page 5 of 39

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

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



Rev: 01

Page: 11 of 44

EX3DV4- SN:3938

October 24, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity F | Conductivity (S/m) F | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc (k≈2) |
|----------------------|----------------------------|-------------------------|---------|---------|---------|--------------------|----------------------------|--------------|
| 750 | 55.5 | 0.96 | 9.72 | 9.72 | 9.72 | 0.46 | 0.87 | ± 12.0 % |
| 835 | 55.2 | 0.97 | 9,56 | 9.56 | 9.56 | 0.41 | 0.92 | ± 12,0 % |
| 900 | 55.0 | 1.05 | 9.33 | 9.33 | 9.33 | 0.48 | 0.87 | ± 12.0 % |
| 1450 | 54.0 | 1.30 | 7.98 | 7.98 | 7.98 | 0.32 | 0.90 | ± 12.0 % |
| 1750 | 53.4 | 1.49 | 7.83 | 7.83 | 7.83 | 0.43 | 0.90 | ± 12.0 % |
| 1900 | 53.3 | 1.52 | 7.52 | 7.52 | 7.52 | 0.33 | 0.96 | ± 12.0 % |
| 2000 | 53.3 | 1.52 | 7.62 | 7.62 | 7.62 | 0,36 | 0.89 | ± 12.0 % |
| 2300 | 52.9 | 1.81 | 7.33 | 7.33 | 7.33 | 0.42 | 0.87 | ± 12.0 % |
| 2450 | 52,7 | 1.95 | 7.30 | 7.30 | 7.30 | 0.35 | 0.87 | ± 12.0 % |
| 2600 | 52,5 | 2.16 | 7.15 | 7.15 | 7.15 | 0.33 | 0.95 | ± 12.0 % |
| 5250 | 48.9 | 5.36 | 4.23 | 4.23 | 4.23 | 0.50 | 1.90 | ± 13.1 % |
| 5600 | 48.5 | 5.77 | 3.77 | 3.77 | 3.77 | 0.50 | 1.90 | ± 13.1 % |
| 5800 | 48.2 | 6.00 | 4.00 | 4.00 | 4.00 | 0.50 | 1.90 | ± 13.1 % |

Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else if is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 84, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

Certificale No: EX3-3938 Oct18

Page 6 of 39

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

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

validity can be extended to ± 110 MHz.

At frequencies below 3 GHz, the validity of lissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvT uncertainty for indicated target tissue parameters.

Apha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip

diameter from the boundary.



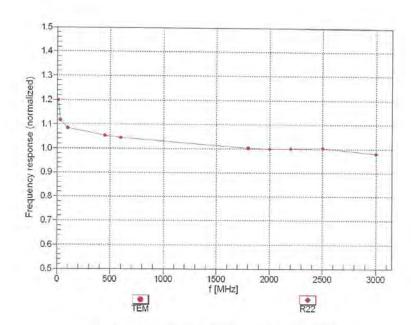
Rev: 01

Page: 12 of 44

EX3DV4- SN:3938

October 24, 2018

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Certificate No: EX3-3938_Oct18

Page 7 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非早有說明,什報告結果僅與個別天。木報告未經木公司書面許可,不可無份複製。

除非另有說明,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.sg.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sg.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.

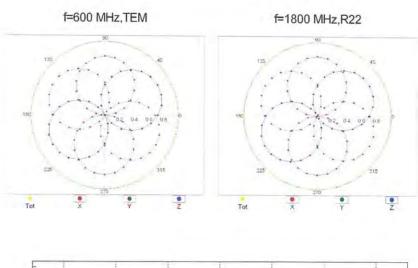


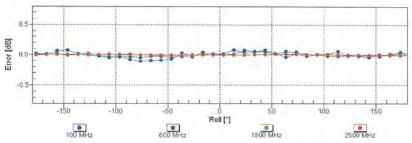
Rev: 01

Page: 13 of 44

EX3DV4- SN:3938 October 24, 2018

Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$





Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Certificate No: EX3-3938_Oct18

Page 8 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非早有說明,什報告結果僅與個別天。木報告未經木公司書面許可,不可無份複製。

除非另有說明,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.sg.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sg.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.

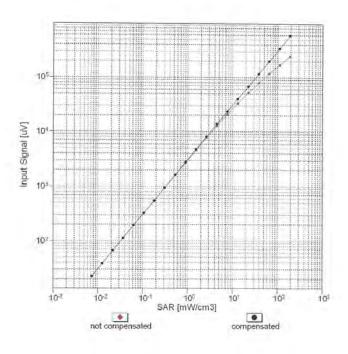


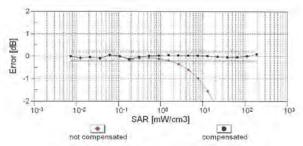
Rev: 01

Page: 14 of 44

EX3DV4- SN:3938 October 24, 2018

Dynamic Range f(SARhead) (TEM cell , feval= 1900 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Certificate No: EX3-3938_Oct18 Page 9 of 39

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

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

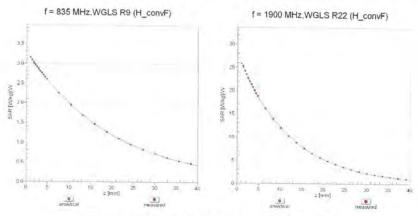


Rev: 01

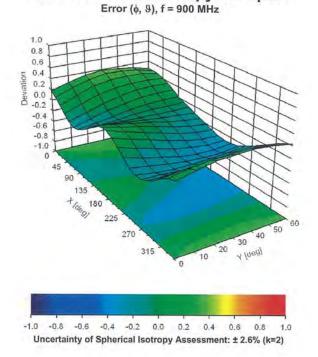
Page: 15 of 44

EX3DV4- SN:3938 October 24, 2018

Conversion Factor Assessment



Deviation from Isotropy in Liquid



Certificate No: EX3-3938_Oct18

Page 10 of 39

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

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



Rev: 01

Page: 16 of 44

EX3DV4-SN:3938

October 24, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Other Probe Parameters

| Sensor Arrangement | Triangular |
|---|------------|
| Connector Angle (a) | -26.4 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 9 mm |
| Tip Diameter | 2.5 mm |
| Probe Tip to Sensor X Calibration Point | 1 mm |
| Probe Tip to Sensor Y Calibration Point | 1 mm |
| Probe Tip to Sensor Z Calibration Point | 1 mm |
| Recommended Measurement Distance from Surface | 1,4 mm |

Certificate No: EX3-3938_Oct18

Page 11 of 39

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

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



Rev: 01

Page: 17 of 44

EX3DV4-SN:3938 October 24, 2018

| UID | Communication System Name | | A dB | B dB√μV | C | dB | WR mV | Max Unc ^E (k=2) |
|---------------|---|----|---------|------------------|-------|-------|----------|----------------------------------|
| 0 | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 164.0 | ±3.5 % |
| | | Y | 0.00 | 0.00 | 1.00 | | 174.2 | |
| | | Z | 0.00 | 0.00 | 1.00 | | 176.3 | |
| 10010- CAA | SAR Validation (Square, 100ms, 10ms) | X | 11,84 | 84.28 | 19.03 | 10.00 | 20,0 | ±9.6 % |
| | | Y | 4.75 | 72.52 | 14.55 | | 20.0 | |
| | | Z | 2.70 | 65.86 | 10.62 | 1000 | 20.0 | |
| 10011- CAB | UMTS-FDD (WCDMA) | × | 1.25 | 71.04 | 17.46 | 0,00 | 150.0 | ± 9.6 % |
| | | Y | 0.87 | 65.19 | 13.50 | | 150.0 | |
| | | Z | 1.10 | 69.84 | 16.56 | | 150.0 | |
| 10012- CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) | Х | 1.29 | 65.77 | 16.62 | 0.41 | 150.0 | ±9.6 % |
| | | Υ | 1.13 | 63.57 | 14.74 | | 150.0 | |
| | | Z | 1.17 | 64.77 | 15.66 | | 150.0 | |
| 10013- CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps) | X | 5.06 | 67.01 | 17.40 | 1.46 | 150.0 | ±9.6 % |
| | | Y | 4.93 | 66.63 | 17.09 | | 150.0 | |
| | | Z | 4.79 | 66.72 | 16.84 | 0.00 | 150.0 | |
| 10021- DAC | GSM-FDD (TDMA, GMSK) | X | 100.00 | 118.51 | 30.68 | 9.39 | 50.0 | ± 9.6 % |
| | | Y | 100.00 | 117.47 | 30.14 | | 50.0 | |
| | 2002 200 (2011) 21/21/21/21/21 | Z | 9.68 | 81.68 | 18.25 | 0.00 | 50.0 | 1000 |
| 10023- DAC | GPRS-FDD (TDMA, GMSK, TN 0) | X | 100.00 | 118.45 | 30.70 | 9.57 | 50.0 | ±9.6 % |
| | | Y | 100.00 | 117.42 | 30.17 | | 50.0 | |
| | | Z | 8.28 | 79.56 | 17.55 | | 50.0 | |
| 10024- DAC | GPRS-FDD (TDMA, GMSK, TN 0-1) | X. | 100.00 | 116.27 | 28.62 | 6,56 | 60.0 | ± 9.6 % |
| | | Y | 100.00 | 113.88 | 27.38 | | 60.0 | |
| | | Z | 17.36 | 88.43 | 18.89 | | 60.0 | |
| 10025- DAC | EDGE-FDD (TDMA, 8PSK, TN 0) | X | 14.85 | 105.13 | 41.16 | 12.57 | 50.0 | ± 9.6 % |
| | | Y | 6.69 | 80.08 | 30.32 | | 50.0 | |
| | | Z | 5.13 | 73.32 | 26.13 | | 50.0 | |
| 10026- DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1) | X | 28.61 | 116,31 | 40.38 | 9.56 | 60.0 | ±9.6 % |
| | | Y. | 17.18 | 103,12 | 35.82 | | 60.0 | |
| | | Z | 10.76 | 92.22 | 31.22 | 1.00 | 60.0 | + 5 2 4 |
| 10027- DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2) | X | 100.00 | 116.23 | 27.82 | 4.80 | 80,0 | ±9.6 % |
| | | Y | 100,00 | 112.20 | 25.80 | | 80.0 | |
| 10028- | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) | X | 100.00 | 105.42 117.56 | 27.68 | 3.55 | 100.0 | ±9.6 % |
| DAC | | Y | 100.00 | 111,19 | 24.62 | | 100.0 | |
| | | Z | 100.00 | 105.06 | 21.28 | | 100.0 | - |
| 10029- | EDGE-FDD (TDMA, 8PSK, TN 0-1-2) | X | 14.44 | 99.44 | 33.73 | 7.80 | 80.0 | ±9.6 % |
| DAC | EDGET DU (IDWA, GESIK, IN U-1-2) | Y | 10.38 | 91.48 | 30.62 | 1.00 | 80.0 | 20,00 |
| | | Z | 6.98 | 83.31 | 26.90 | | 80.0 | |
| 10030- CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1) | X | 100.00 | 115.12 | 27.62 | 5,30 | 70.0 | ± 9.6 % |
| JAM | | Y | 100,00 | 111.80 | 25.93 | | 70.0 | |
| | | 2 | 13.15 | 85.08 | 17.21 | | 70.0 | |
| 10031- CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3) | X | 100.00 | 120,41 | 27,44 | 1.88 | 100.0 | ± 9.6 % |
| OAA | | Y | 100.00 | 105.86 | 20.93 | | 100.0 | |
| | | Z | 100.00 | 102.30 | 18.93 | | 100.0 | |

Certificate No: EX3-3938_Oct18

Page 12 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 18 of 44

EX3DV4- SN:3938

October 24, 2018

| 10032- CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5) | X | 100.00 | 129.17 | 29.93 | 1.17 | 100.0 | ± 9.6 % |
|---------------|--|---|-----------------|--------|-------|-------|-------|---------|
| | | Y | 100.00 | 101.34 | 18.13 | | 100.0 | |
| | | 2 | 100.00 | 104.25 | 18.92 | | 100.0 | |
| 10033- CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1) | X | 100.00 | 128.01 | 35.11 | 5.30 | 70.0 | ± 9.6 % |
| | | Y | 30.26 | 106.06 | 28.70 | | 70.0 | |
| | Landy and the second second | Z | 7.06 | 82.85 | 20.36 | | 70.0 | |
| 10034- CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3) | × | 31.82 | 111.52 | 29.61 | 1,88 | 100.0 | ± 9.6 % |
| | | Y | 4,94 | 81.70 | 19.61 | | 100.0 | - |
| | Lucia Balance Francisco | Z | 3.36 | 77.14 | 17:43 | | 100.0 | - |
| 10035- CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5) | X | 8,76 | 93.74 | 24.54 | 1.17 | 100.0 | ±9.6 % |
| | | Y | 2.58 | 74.38 | 16.61 | | 100.0 | |
| | | Z | 2.45 | 74.78 | 16.51 | | 100.0 | |
| 10036- CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1) | × | 100.00 | 128.33 | 35.27 | 5.30 | 70.0 | ±9.6 % |
| | | Y | 49.56 | 114.02 | 30.85 | | 70.0 | |
| | | Z | 8.61 | 85.86 | 21.44 | | 70.0 | |
| 10037- CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3) | X | 28.47 | 109.85 | 29.14 | 1.88 | 100.0 | ± 9.6 % |
| | | Y | 4.63 | 80.88 | 19.28 | | 100.0 | |
| | | Z | 3.10 | 76:20 | 17.05 | | 100.0 | |
| 10038- CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5) | X | 9.40 | 95.18 | 25.08 | 1.17 | 100.0 | ±9.6 % |
| | | Y | 2.66 | 74.97 | 16,94 | | 100.0 | |
| | | Z | 2.52 | 75.36 | 16.85 | | 100.0 | |
| 10039- CAB | CDMA2000 (1xRTT, RC1) | X | 2.91 | 78.68 | 19.30 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.40 | 67.94 | 13.51 | | 150.0 | |
| | The state of the s | Z | 2.98 | 79.60 | 18.61 | | 150.0 | |
| 10042- CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate) | X | 100.00 | 114.29 | 27.89 | 7.78 | 50.0 | ±9.6 % |
| | | Υ | 100.00 | 112.24 | 26.83 | | 50.0 | |
| | | Z | 7.08 | 77.79 | 15.66 | | 50.0 | |
| 10044- CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM) | X | 0.00 | 111.10 | 2.98 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.12 | 121.97 | 13.25 | | 150.0 | |
| - | | 2 | 0.02 | 124.98 | 11.44 | | 150.0 | |
| 10048- CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24) | X | 100.00 | 120.31 | 32.96 | 13.80 | 25.0 | ±9.6 % |
| | | Y | 26.80 | 98.60 | 27.12 | | 25.0 | |
| 1001- | | Z | 6.10 | 73.04 | 16.68 | | 25.0 | |
| 10049- CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12) | X | 100.00 | 118.79 | 31.19 | 10.79 | 40.0 | ±9.6 % |
| | | Y | 42.73 | 105.35 | 27,59 | | 40.0 | |
| | THE RESERVE TO THE PARTY OF THE | Z | 6.52 | 75.70 | 16.44 | | 40.0 | |
| 10056- CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps) | X | 59,92 | 116.40 | 32.89 | 9.03 | 50.0 | ± 9.6 % |
| | | Y | 20.27 | 96.61 | 26.81 | | 50.0 | |
| *0000 | Ten Service de la Constitución d | Z | 8.73 | 81.48 | 20.30 | | 50.0 | |
| 10058- DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) | X | 9.49 | 90.34 | 29.75 | 6.55 | 100.0 | ±9.6 % |
| | | Y | 7.41 | 84.68 | 27.34 | | 100.0 | |
| 10059- | IEEE DODANG WEEK A LOVE TO | Z | 5.31 | 78.46 | 24.34 | | 100.0 | |
| 10059- CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) | X | 1.45 | 68.16 | 17.83 | 0.61 | 110.0 | ±9.6 % |
| | | Y | 1.24 | 65.28 | 15.64 | | 110.0 | |
| 10060- | IEEE DOG AND AND COLORS | Z | 1.24 | 66.08 | 16.24 | - | 110.0 | |
| CAB | (EEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps) | X | 100.00 | 136.52 | 35.66 | 1.30 | 110.0 | ±9.6 % |
| | | Y | 100.00 | 100 00 | 4.0 | | | |
| | | Z | 100.00 75.11 | 127.82 | 31.55 | | 110.0 | |

Certificate No. EX3-3938_Oct18

Page 13 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 19 of 44

EX3DV4-SN:3938

October 24, 2018

| 10061- CAB | IEEE 802,11b WiFi 2.4 GHz (DSSS, 11 Mbps) | X | 37.93 | 122.29 | 34.76 | 2.04 | 110.0 | ±9.6 % |
|---------------|--|---|-------|--------|-------|------|-------|-----------|
| | | Y | 7.04 | 91.70 | 25.29 | | 110.0 | |
| .00 | | 2 | 3.71 | 82.53 | 21.92 | | 110.0 | |
| 10062- CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps) | X | 4.83 | 66.93 | 16.78 | 0.49 | 100.0 | ±9.6 % |
| | | Y | 4.68 | 66.44 | 16.40 | | 100.0 | |
| | | 2 | 4.61 | 66.82 | 16.41 | | 100.0 | |
| 10063- CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps) | X | 4.86 | 67.07 | 16.91 | 0.72 | 100.0 | ±9.6 % |
| | | Y | 4.71 | 66.58 | 16.52 | | 100.0 | |
| Vin Spirit | La a Man Arresto per constituto | Z | 4.62 | 66.89 | 16.47 | | 100.0 | |
| 10064- CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps) | X | 5.19 | 67.38 | 17.15 | 0.86 | 100.0 | ± 9,6 % |
| | | Y | 5.02 | 66.91 | 16.79 | | 100.0 | |
| | a substance of the contract of | Z | 4.90 | 67.10 | 16.66 | | 100.0 | 40.00 |
| 10065- CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps) | X | 5.07 | 67,37 | 17.30 | 1.21 | 100.0 | ±9.6 % |
| | | Y | 4.91 | 66.89 | 16.94 | | 100.0 | |
| | | Z | 4.77 | 66.99 | 16.73 | | 100.0 | |
| 10066- CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) | Х | 5.11 | 67.44 | 17.51 | 1.46 | 100.0 | ± 9.6 % |
| | | Y | 4,95 | 66.98 | 17.15 | | 100.0 | 1 |
| | | Z | 4.78 | 66.99 | 16.85 | | 100.0 | |
| 10067- CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps) | Х | 5.40 | 67.52 | 17,91 | 2.04 | 100.0 | ± 9.6 % |
| | | Y | 5,26 | 67,17 | 17.62 | | 100.0 | |
| | ALCOHOL AND ALCOHOL AND ALCOHOL | Z | 5,06 | 67.09 | 17.23 | | 100.0 | Le tropic |
| 10068- CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps) | X | 5.51 | 67.80 | 18.25 | 2.55 | 100.0 | ± 9.6 % |
| | | Y | 5.36 | 67.40 | 17.94 | | 100.0 | |
| | | Z | 5.11 | 67.14 | 17.41 | | 100.0 | |
| 10069- CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps) | X | 5.58 | 67.69 | 18.40 | 2.67 | 100.0 | ± 9.6 % |
| | | Y | 5,44 | 67.37 | 18.13 | | 100.0 | |
| | | Z | 5.19 | 67.11 | 17.58 | | 100.0 | |
| 10071- CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps) | X | 5.17 | 67.17 | 17.75 | 1.99 | 100.0 | ±9.6 % |
| | | Y | 5.05 | 66.81 | 17.46 | | 100.0 | |
| | | Z | 4.88 | 66.78 | 17.09 | | 100.0 | |
| 10072- CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 5.21 | 67.68 | 18.06 | 2.30 | 100.0 | ± 9.6 % |
| | 1 | Y | 5.08 | 67.27 | 17.74 | | 100.0 | |
| | | Z | 4.87 | 67.11 | 17,28 | | 100.0 | |
| 10073- CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 5.30 | 67.92 | 18.44 | 2.83 | 100.0 | ± 9.6 % |
| | | Y | 5.18 | 67.55 | 18.13 | | 100.0 | |
| | And the second s | Z | 4.94 | 67.26 | 17.56 | | 100.0 | |
| 10074- CAB | IEEE 802,11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 5,29 | 67,90 | 18.65 | 3.30 | 100.0 | ± 9.6 % |
| | | Y | 5.19 | 67.54 | 18.34 | | 100.0 | |
| | A CONTRACTOR OF THE PARTY OF TH | Z | 4.93 | 67.18 | 17.70 | - | 100.0 | |
| 10075- CAB | IEEE 802,11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 5.40 | 68.26 | 19.10 | 3.82 | 90.0 | ± 9.6 % |
| | | Y | 5.28 | 67.86 | 18.77 | | 90.0 | |
| | | Z | 4.98 | 67.33 | 17.99 | | 90.0 | |
| 10076- CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 5.38 | 67.97 | 19.17 | 4.15 | 90.0 | ±9.6 % |
| | | Y | 5.29 | 67.64 | 18.88 | | 90.0 | |
| | | Z | 5.00 | 67.13 | 18.10 | | 90.0 | |
| 10077- CAB | IEEE 802,11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 5.41 | 68.03 | 19.26 | 4.30 | 90.0 | ±9.6 % |
| | | Y | 5.32 | 67.72 | 18.98 | | 90.0 | |
| | | 2 | 5.03 | 67.21 | 18.19 | | 90.0 | |

Certificate No: EX3-3938_Oct18

Page 14 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 20 of 44

EX3DV4-SN:3938

October 24, 2018.

| 10081- CAB | CDMA2000 (1xRTT, RC3) | X | 1.20 | 70.94 | 15.87 | 0.00 | 150.0 | ± 9.6 % |
|---------------|--|---|--------|--------|-------|---------------|-------|---------|
| | | Y | 0.68 | 63.33 | 10.59 | | 150.0 | |
| | A STATE OF THE PARTY OF THE PAR | Z | 0.97 | 69.12 | 14.01 | To a contract | 150.0 | |
| 10082- CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate) | X | 1.35 | 61,30 | 6.54 | 4.77 | 80.0 | ± 9.6 % |
| Y | | Y | 1.15 | 60.10 | 5.56 | | 80.0 | |
| | The same and the s | 2 | 0.90 | 60.00 | 4.82 | | 80.0 | |
| 10090- DAC | GPRS-FDD (TDMA, GMSK, TN 0-4) | X | 100.00 | 116.34 | 28.67 | 6.56 | 60.0 | ± 9.6 % |
| | | Y | 100,00 | 113.98 | 27.45 | | 60.0 | |
| | | 2 | 16,80 | 88.08 | 18.81 | | 60.0 | |
| 10097- CAB | UMTS-FDD (HSDPA) | X | 1.98 | 69.10 | 16.78 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 1.66 | 66.14 | 14.64 | | 150.0 | |
| | | Z | 1.92 | 69.38 | 16.52 | | 150.0 | |
| 10098- CAB | UMTS-FDD (HSUPA, Subtest 2) | X | 1.94 | 69.09 | 16.77 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.62 | 66,08 | 14.59 | | 150.0 | |
| 1000 | | Z | 1.87 | 69.33 | 16.49 | 1 | 150.0 | |
| 10099- DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4) | X | 28.67 | 116.31 | 40.37 | 9.56 | 60.0 | ± 9.6 % |
| | | Y | 17.22 | 103.14 | 35.83 | | 60.0 | |
| 30400 | LTE FDD /GO FDL'A | Z | 10.80 | 92,24 | 31.22 | | 60.0 | |
| 10100- CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | X | 3.51 | 72.21 | 17.62 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.94 | 69.12 | 15.85 | | 150.0 | |
| 10101- | LTC FRA (DC HRILL) | Z | 3.29 | 71.84 | 17.33 | | 150.0 | |
| CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | X | 3.42 | 68.37 | 16.44 | 0.00 | 150.0 | ±9.6 % |
| _ | | Y | 3.15 | 66.88 | 15.45 | | 150.0 | |
| 10100 | 125 500 150 150 150 150 150 150 150 150 15 | Z | 3.25 | 68.19 | 16.19 | | 150.0 | |
| 10102- CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | X | 3.51 | 68.25 | 16.50 | 0.00 | 150.0 | ±9.6 % |
| _ | | Y | 3.25 | 66.87 | 15.57 | | 150.0 | |
| 10100 | | 2 | 3.35 | 68.16 | 16.28 | 1-1.7 | 150.0 | |
| 10103- CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | X | 9.10 | 80.51 | 22,32 | 3.98 | 65.0 | ±9.6 % |
| | | Y | 7.71 | 77.60 | 21.05 | | 65.0 | |
| 70.70 | | Z | 6.72 | 75.86 | 19.85 | | 65.0 | |
| 10104- CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | X | 8.36 | 77.67 | 22.08 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.55 | 75.78 | 21.18 | | 65.0 | |
| 10105 | (WE WOO IN THE | Z | 6.54 | 73.78 | 19.84 | | 65.0 | |
| 10105- CAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | X | 8.22 | 77.35 | 22.27 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.00 | 74.28 | 20.84 | | 65.0 | |
| 10100 | LTE EDD ING EDL | Z | 6.41 | 73.35 | 19.98 | | 65.0 | |
| 10108- CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | X | 3.07 | 71.32 | 17.44 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 2.58 | 68.37 | 15.67 | | 150.0 | |
| 10109- | LTE EDD /OC EDWA 4000 DE | Z | 2.85 | 71.00 | 17.15 | | 150.0 | |
| 10109- CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | × | 3.09 | 68.24 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.80 | 66.64 | 15.30 | | 150.0 | |
| 10110- | LTE EDD (SC EDMA 1000) DC 5111 | Z | 2.92 | 68.15 | 16.17 | | 150.0 | |
| CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | X | 2.51 | 70.39 | 17.16 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.08 | 67.38 | 15.21 | | 150.0 | |
| 10111- | LTE EDD (SC EDMA 4000) OD 51111 | Z | 2.30 | 70.10 | 16.80 | | 150.0 | |
| CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | X | 2.83 | 69,15 | 16.90 | 0,00 | 150.0 | ±9.6 % |
| _ | | Y | 2.49 | 67.13 | 15.44 | | 150.0 | |
| | | | 2.71 | 69.56 | 16.76 | | | |

Certificate No: EX3-3938_Oct18

Page 15 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 21 of 44

EX3DV4-SN:3938

October 24, 2018

| 10112- CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | X. | 3.20 | 68.13 | 16.43 | 0.00 | 150.0 | ±9.6 % |
|---------------|--|----|------|-------|-------|------|-------|---------|
| -112 | | Y | 2.93 | 66.65 | 15.39 | | 150.0 | |
| | | Z | 3.04 | 68.13 | 16.21 | | 150.0 | |
| 10113- CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | X | 2.98 | 69.16 | 16.96 | 0.00 | 150.0 | ±9.6% |
| | | Y | 2.64 | 67.31 | 15.61 | | 150.0 | |
| | | Z | 2.87 | 69.66 | 16.87 | | 150.0 | |
| 10114- CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) | X | 5.21 | 67.32 | 16.54 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 5.08 | 66.85 | 16.21 | | 150.0 | |
| | | Z | 5.06 | 67.43 | 16.43 | | 150.0 | 200 |
| 10115- CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) | X | 5.56 | 67.60 | 16.68 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.42 | 67.13 | 16.37 | | 150.0 | |
| | The transfer of the same of the same | Z | 5.34 | 67.52 | 16.48 | 1.0 | 150.0 | |
| 10116- CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.33 | 67.58 | 16.59 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 5.19 | 67.09 | 16.26 | | 150.0 | |
| | | Z | 5.15 | 67.61 | 16.44 | | 150.0 | |
| 10117- CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) | X | 5.21 | 67.33 | 16.56 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 5.06 | 66.76 | 16.19 | | 150.0 | |
| | The state of the s | Z | 5,03 | 67.31 | 16.39 | | 150.0 | |
| 10118- CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16- QAM) | X | 5.63 | 67,75 | 16.76 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5,50 | 67.34 | 16.48 | | 150.0 | |
| | | Z | 5.41 | 67.66 | 16.55 | | 150.0 | |
| 10119- CAC | IEEE 802,11n (HT Mixed, 135 Mbps, 64- QAM) | X | 5.30 | 67.52 | 16.58 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.16 | 67.02 | 16.24 | | 150.0 | |
| | | Z | 5.13 | 67.55 | 16.43 | | 150,0 | |
| 10140- CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | X | 3.56 | 68.24 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 3.29 | 66.88 | 15.49 | | 150.0 | |
| | | Z | 3.39 | 68.15 | 16.19 | | 150.0 | |
| 10141- CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | Х | 3.68 | 68.26 | 16.55 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 3.42 | 66.99 | 15.68 | | 150.0 | |
| | | Z | 3.52 | 68.25 | 16.36 | | 150.0 | |
| 10142- CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | Х | 2.31 | 70.61 | 17.10 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 1.84 | 67.11 | 14.76 | | 150.0 | |
| | | Z | 2.12 | 70.48 | 16.65 | | 150.0 | |
| 10143- CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | X | 2.77 | 70.28 | 16.99 | 0.00 | 150.0 | ± 9.6 % |
| 7 | | Y | 2.31 | 67.48 | 15.00 | / | 150.0 | |
| | | Z | 2.68 | 70.99 | 16.78 | | 150.0 | |
| 10144- CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | X | 2.51 | 67.86 | 15.37 | 0.00 | 150.0 | ± 9.6 % |
| 111 | | Y | 2.14 | 65.60 | 13.59 | | 150.0 | |
| | | 2 | 2.29 | 67,65 | 14.67 | | 150.0 | |
| 10145- CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | X | 1.73 | 69.60 | 15.10 | 0.00 | 150.0 | ±9.6 % |
| | | Υ | 1.11 | 63.66 | 10.90 | | 150.0 | |
| | The second section of the second | 2 | 1.33 | 67.08 | 12.73 | | 150.0 | |
| 10146- CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 4.24 | 75,96 | 17.12 | 0.00 | 150.0 | ±9,69 |
| | | Y | 2.46 | 68.71 | 13.45 | | 150.0 | |
| A August | the Contract of the Contract o | Z | 2.36 | 68.35 | 12,25 | | 150.0 | |
| 10147- CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 6.45 | 81.86 | 19.47 | 0.00 | 150.0 | ±9.6 9 |
| | | Y | 3.10 | 71.79 | 14.97 | | 150.0 | |
| | | Z | 3.29 | 72.21 | 14.01 | | 150.0 | 1 |

Certificate No: EX3-3938_Oct18

Page 16 of 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.

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

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Rev: 01

Page: 22 of 44

EX3DV4-SN:3938

October 24, 2018

| 10149- CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | X | 3.10 | 68.31 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|---------------|--|-----|-------|-------|-------|------|-------|---------|
| | | Y | 2.81 | 66,69 | 15.35 | | 150.0 | |
| | A STATE OF THE PARTY OF THE PAR | 2 | 2.93 | 68.23 | 16:22 | | 150.0 | |
| 10150- CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | X | 3.21 | 68,18 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.94 | 66.70 | 15.43 | | 150.0 | |
| | Value de l'année de l'Article d | Z | 3,05 | 68.20 | 16.26 | | 150.0 | |
| 10151- CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | X | 10.13 | 83.77 | 23.67 | 3.98 | 65.0 | ± 9.6 % |
| | 1,167 | Y | 8.42 | 80.52 | 22.26 | | 65.0 | |
| | | Z | 6.89 | 77.61 | 20.59 | | 65.0 | |
| 10152- CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | × | 8.04 | 78.08 | 22.05 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.13 | 75.91 | 20.96 | | 65.0 | |
| | | Z | 6.04 | 73.58 | 19.44 | - 1 | 65.0 | |
| 10153- CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | × | 8.44 | 78.92 | 22.75 | 3.98 | 65.0 | ± 9.6 % |
| _ | | Y | 7.56 | 76.89 | 21.74 | | 65.0 | |
| | | Z | 6.48 | 74.70 | 20.30 | | 65.0 | |
| 10154- CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | X | 2.59 | 70.97 | 17.50 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 2.12 | 67.77 | 15.47 | | 150.0 | |
| | | Z | 2.38 | 70.74 | 17.16 | | 150.0 | |
| 10155- CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | X | 2.83 | 69.15 | 16.90 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.49 | 67.14 | 15.45 | | 150.0 | |
| | A STATE OF THE PARTY OF THE PAR | Z | 2.71 | 69.57 | 16.78 | | 150.0 | |
| 10156- CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | X | 2,21 | 71.19 | 17.23 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 1.68 | 67.01 | 14.46 | | 150.0 | |
| | | Z | 2.01 | 71.01 | 16.65 | | 150.0 | |
| 10157- CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | .X. | 2,40 | 68.89 | 15.72 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.95 | 65.89 | 13.48 | | 150.0 | |
| | | Z | 2.19 | 68.70 | 14.94 | | 150.0 | |
| 10158- CAG | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | X | 2.98 | 69.22 | 17.01 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 2.65 | 67.36 | 15.65 | | 150.0 | |
| | | Z | 2.88 | 69.75 | 16.93 | | 150.0 | |
| 10159- CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | X | 2.54 | 69.44 | 16.05 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 2.05 | 66.31 | 13.77 | | 150.0 | |
| | | Z | 2.34 | 69.42 | 15.34 | | 150.0 | |
| 10160- CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | × | 2.96 | 69.71 | 16.97 | 0.00 | 150.0 | ± 9.6 % |
| | | Υ | 2.62 | 67.67 | 15.60 | | 150.0 | |
| 40404 | 1 | Z | 2.78 | 69.58 | 16.72 | | 150.0 | |
| 10161- CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | Х | 3,11 | 68.11 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
| | | Υ | 2.83 | 66.60 | 15.34 | | 150.0 | |
| 10162- | LTE FOR (SO FOUL | Z | 2.95 | 68.19 | 16.22 | | 150.0 | |
| 10162- CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | × | 3.21 | 68.15 | 16.50 | 0.00 | 150.0 | ±9,6 % |
| _ | | Y | 2.94 | 66.74 | 15.46 | | 150.0 | |
| 10100 | LTE EDD 100 ED11. | Z | 3.06 | 68.32 | 16.32 | | 150.0 | |
| 10166- CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | X | 4.07 | 71.03 | 19.91 | 3.01 | 150.0 | ±9.6 % |
| | | Y | 3.79 | 69.95 | 19:36 | | 150.0 | |
| 10167- | LYF FRR ING FRA | 2 | 3.83 | 71.36 | 19.76 | | 150.0 | |
| 10167- CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | Х | 5.42 | 74.80 | 20.67 | 3.01 | 150.0 | ±9.6 % |
| | | Y | 4.77 | 72.79 | 19.75 | | 150.0 | |
| | | Z | 5.29 | 76.01 | 20.77 | | | |

Certificate No. EX3-3938_Oct18

Page 17 of 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.

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

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Rev: 01

Page: 23 of 44

EX3DV4- SN:3938

October 24, 2018

| 10168- CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | Х | 6,05 | 77.17 | 21.98 | 3.01 | 150.0 | ± 9.6 % |
|---------------|--|----|--------|--------|-------|------|-------|---------|
| | | Y | 5.30 | 75.09 | 21.09 | | 150.0 | |
| | | Z | 6.36 | 79.86 | 22.71 | | 150.0 | |
| 10169- CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | X | 3,85 | 72,93 | 20.70 | 3,01 | 150.0 | ± 9.6 % |
| | | Y | 3.33 | 70.15 | 19.41 | | 150.0 | |
| | | Z | 3.47 | 72.51 | 20.23 | | 150.0 | |
| 10170- CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | Х | 6.37 | 81.48 | 23.72 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 4.75 | 76.10 | 21,63 | | 150.0 | |
| | | Z | 7.01 | 85.04 | 24.72 | | 150.0 | |
| 10171- AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | X | 4.87 | 75.76 | 20.53 | 3.01 | 150.0 | ±9.6 % |
| | | Y | 3.87 | 71.72 | 18.83 | | 150.0 | |
| | | Z | 4.54 | 76.13 | 20.23 | | 150.0 | |
| 10172- CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | × | 80,41 | 131,60 | 39.78 | 6.02 | 65.0 | ±9.6 % |
| | | Y | 18.51 | 103.18 | 32.14 | | 65.0 | |
| | | Z | 14.22 | 97.99 | 29.18 | | 65.0 | |
| 10173- CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | X | 100.00 | 127.75 | 36.65 | 6.02 | 65.0 | ±9.6 % |
| | | Y | 30.31 | 107.15 | 31.45 | | 65.0 | |
| | | Z | 25.08 | 102.02 | 28.13 | | 65.0 | |
| 10174- CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | X | 60.73 | 116,92 | 33.35 | 6.02 | 65.0 | ± 9.6 % |
| | | Y | 21.73 | 99.84 | 28.80 | | 65.0 | |
| | | Z | 17.08 | 94.57 | 25.40 | | 65.0 | |
| 10175- CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | X | 3.78 | 72.50 | 20,41 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.29 | 69.80 | 19.15 | | 150.0 | |
| | The second secon | Z | 3.40 | 71.98 | 19.88 | | 150.0 | |
| 10176- CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | .X | 6,38 | 81.51 | 23.73 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 4.76 | 76.12 | 21.65 | | 150.0 | |
| | | Z | 7.03 | 85,08 | 24.74 | | 150.0 | |
| 10177- CAI | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | X | 3.82 | 72.71 | 20.53 | 3.01 | 150.0 | ± 9.6 % |
| | | ·Y | 3.32 | 69.97 | 19,25 | | 150.0 | |
| | | Z | 3.44 | 72.23 | 20.02 | | 150.0 | |
| 10178- CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM) | X | 6.26 | 81.12 | 23.55 | 3.01 | 150.0 | ±9.6 % |
| | | Y | 4.70 | 75.86 | 21.51 | | 150.0 | |
| | | Z | 6.85 | 84.54 | 24.51 | | 150.0 | |
| 10179- CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz. 64-QAM) | X | 5.53 | 78.38 | 21.95 | 3.01 | 150.0 | ±9.6 % |
| | | Y | 4.26 | 73:73 | 20.08 | | 150.0 | |
| | | Z | 5.53 | 80.03 | 22.20 | | 150.0 | |
| 10180- CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM) | X | 4.85 | 75.63 | 20,46 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.85 | 71.63 | 18.78 | | 150.0 | |
| | the same region and the same | Z | 4.51 | 75.97 | 20.14 | | 150.0 | 1 |
| 10181- CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | × | 3.82 | 72.69 | 20.52 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.31 | 69.95 | 19.24 | | 150.0 | |
| | A CONTRACTOR OF THE STREET | Z | 3.44 | 72.20 | 20.01 | | 150.0 | |
| 10182- CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | X | 6.25 | 81.09 | 23.54 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 4.70 | 75.84 | 21.50 | | 150.0 | |
| 1 | | Z | 6.83 | 84.50 | 24,49 | | 150.0 | |
| 10183- AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | X | 4.84 | 75.60 | 20,44 | 3.01 | 150.0 | ±9.6 % |
| 1000 | 1 | Y | 3.85 | 71.61 | 18.77 | | 150.0 | |
| | | | | | | | | |

Certificate No: EX3-3938_Oct18

Page 18 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 24 of 44

EX3DV4- SN:3938

October 24, 2018

| 10184- CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | X | 3.83 | 72.74 | 20.54 | 3.01 | 150.0 | ± 9.6 % |
|---------------|--|-----|-------|-------|--------|------|-------|---------|
| | | Y | 3.32 | 70.00 | 19.27 | 1, 1 | 150.0 | |
| | the second second | Z | 3.45 | 72.26 | 20.04 | | 150.0 | |
| 10185- CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM) | X | 6.29 | 81.18 | 23.58 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 4.72 | 75.91 | 21.53 | | 150.0 | 1 |
| | | 2 | 6.88 | 84.63 | 24.55 | | 150.0 | |
| 10186- AAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM) | X | 4.86 | 75.68 | 20.48 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.87 | 71.68 | 18.80 | | 150.0 | |
| | | Z | 4,53 | 76.04 | 20.17 | | 150.0 | |
| 10187- CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | × | 3.84 | 72.79 | 20.60 | 3.01 | 150.0 | ±9.6 % |
| | | Y | 3.33 | 70.05 | 19.33 | | 150.0 | |
| | the second secon | Z | 3.46 | 72.34 | 20.11 | | 150.0 | |
| 10188- CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | × | 6.59 | 82.17 | 24.06 | 3.01 | 150.0 | ±9.6 % |
| | | Y | 4.88 | 76.63 | 21.93 | | 150.0 | |
| | The second secon | Z | 7.44 | 86.21 | 25.23 | | 150.0 | |
| 10189- | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz. | X | 5.01 | 76.28 | 20.81 | 3.01 | 150.0 | ±9.6 % |
| AAF | 64-QAM) | - 1 | 1000 | 1 | 124.20 | 200 | 190,0 | - 510 N |
| | | Y | 3,96 | 72.12 | 19.08 | | 150.0 | |
| | | Z | 4.72 | 76.84 | 20.60 | | 150.0 | |
| 10193- | IEEE 802.11n (HT Greenfield, 6.5 Mbps, | X | 4.64 | 66.78 | 16.35 | 0.00 | 150.0 | ±9.6 % |
| CAC | BPSK) | Y | 4.48 | 66.22 | 15.91 | 0.00 | 1.27 | 2 5.5 % |
| | | Z | 4.48 | | | | 150.0 | |
| 10194- | IEEE 802.11n (HT Greenfield, 39 Mbps. | X | 4.40 | 66.93 | 16.19 | | 150.0 | - |
| CAC | 16-QAM) | F-1 | | 0.000 | 16.46 | 0.00 | 150.0 | ±9.6 % |
| - | | Y | 4.66 | 66.55 | 16.03 | | 150.0 | |
| 10195- | DEED DOO 14- WIT O S 11 OF 18 | Z | 4.65 | 67.23 | 16.31 | | 150.0 | - |
| CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.88 | 67.16 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
| _ | | Y | 4.70 | 66.58 | 16.05 | | 150.0 | |
| 10196- | IEEE BOOM AND | 2 | 4.69 | 67.26 | 16.32 | | 150.0 | |
| CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) | X. | 4.66 | 66.88 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
| | | Υ | 4.49 | 66.29 | 15.93 | | 150.0 | |
| V | | Z | 4.48 | 66.99 | 16.21 | | 150.0 | |
| 10197- CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16- QAM) | X | 4.85 | 67.17 | 16,47 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 4.67 | 66.58 | 16.04 | | 150.0 | |
| | | Z | 4.66 | 67.25 | 16.32 | | 150.0 | |
| 10198- CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM) | X | 4.88 | 67.18 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
| _ | | Y | 4.70 | 66.60 | 16.06 | | 150.0 | |
| 40042 | Imprie AAA A GO | Z | 4.69 | 67,27 | 16.33 | | 150.0 | |
| 10219- CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) | X | 4.61 | 66.90 | 16.35 | 0.00 | 150.0 | ±9,6 % |
| | | Y | 4.43 | 66.30 | 15.89 | | 150.0 | |
| 40000 | | Z | 4.43 | 67.01 | 16.18 | | 150.0 | |
| 10220- CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16- QAM) | X | 4.85 | 67,15 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.67 | 66.56 | 16.04 | | 150.0 | |
| 10001 | (CONT.) | Z | 4.65 | 67.22 | 16.31 | | 150.0 | |
| 10221+ CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64- QAM) | X | 4.89 | 67.10 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.71 | 66.53 | 16.05 | | 150.0 | |
| | NAME OF BUILDING | Z | 4.70 | 67.20 | 16.31 | | 150.0 | |
| 10222- CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) | X | 5.19 | 67.35 | 16.57 | 0.00 | 150.0 | ±9.6 % |
| ONO | DE-SIV) | Y | 5.03 | 66.77 | 16.18 | | 450.0 | |
| | | 2 | 5.03 | 67,33 | | | 150.0 | |
| | | 4 | Q.V.I | 07,00 | 16.39 | | 150.0 | |

Certificate No: EX3-3938_Oct18

Page 19 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 25 of 44

EX3DV4-SN:3938

October 24, 2018

| | 1 | | | | | | | |
|---------------|--|----|--------|--------|----------|------|-----------|---------|
| | | Y | 5.35 | 66,99 | 16,32 | | 150.0 | |
| | | Z | 5.29 | 67.45 | 16.47 | | 150.0 | |
| 10224- CAC | IEEE 802,11n (HT Mixed, 150 Mbps, 64- QAM) | X | 5.24 | 67.46 | 16.55 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 5.08 | 66.87 | 16.16 | | 150.0 | |
| | A STATE OF THE STA | 2 | 5.06 | 67.45 | 16.38 | | 150.0 | |
| 10225- CAB | UMTS-FDD (HSPA+) | × | 2.94 | 66.61 | 15.90 | 0,00 | 150.0 | ±9.6 % |
| | | Y | 2.72 | 65.45 | 14.90 | | 150.0 | |
| | | Z | 2.80 | 66.78 | 15.59 | | 150.0 | |
| 10226- CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | X | 100.00 | 127.97 | 36.79 | 6.02 | 65.0 | ± 9.6 % |
| | | Y | 33.01 | 108.86 | 32.02 | | 65.0 | |
| | | Z | 28.60 | 104.35 | 28.88 | | 65.0 | |
| 10227- CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | Х | 71.64 | 120,02 | 34.24 | 6.02 | 65.0 | ± 9.6 % |
| 307 11 1 | | Y | 27.56 | 104.08 | 30.11 | | 65.0 | |
| | | Z | 21.67 | 98.19 | 26.50 | | 65.0 | |
| 10228- | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, | X | 83.76 | 133.19 | 40.33 | 6.02 | 65.0 | ± 9.6 % |
| CAA | QPSK) | Y | 27.23 | 111.37 | 34.65 | 0.02 | 65.0 | 2 0.0 % |
| | | Z | 14.92 | 99.20 | 29.65 | | 65.0 | |
| 10000 | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- | X | 100.00 | 127.75 | 36.66 | 6.02 | 65.0 | ±9.6 % |
| 10229- CAC | QAM) | Y | 119337 | 195917 | 28,672.4 | 0.02 | F 7 (2.7) | 19.0 % |
| | | | 30.45 | 107.22 | 31.48 | | 65.0 | |
| | | Z | 25.36 | 102-20 | 28.19 | - | 65.0 | |
| 10230- CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM) | × | 64.64 | 118.06 | 33.66 | 6.02 | 65.0 | ± 9.6 % |
| | | Y | 25.67 | 102.71 | 29.64 | | 65,0 | |
| | | 2 | 19.55 | 96.45 | 25.91 | | 65.0 | |
| 10231- CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz., QPSK) | × | 74.78 | 130.72 | 39.63 | 6.02 | 65.0 | ± 9.6 % |
| | | Y | 25.26 | 109.74 | 34.10 | | 65.0 | |
| | The same and the s | Z | 13.84 | 97.69 | 29.10 | | 65.0 | |
| 10232- CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM) | X | 100.00 | 127.76 | 36.66 | 6.02 | 65.0 | ± 9.6 % |
| - | | Y | 30.44 | 107.22 | 31.48 | | 65.0 | |
| | | Z | 25.32 | 102.18 | 28,18 | | 65.0 | |
| 10233- CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM) | X | 64.74 | 118.10 | 33.67 | 6.02 | 65.0 | ± 9.6 % |
| Orsi | - Garanij | Y | 25.65 | 102.71 | 29.64 | | 65.0 | |
| | | 2 | 19.51 | 96.43 | 25.91 | | 65.0 | |
| 10234- CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | X | 66.79 | 128.16 | 38.87 | 6.02 | 65.0 | ±9.6 % |
| | | Y | 23.59 | 108.16 | 33.53 | | 65.0 | 1 - |
| | | Z | 12.92 | 96.23 | 28.52 | 100 | 65.0 | |
| 10235- CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | X. | 100.00 | 127.77 | 36.66 | 6.02 | 65.0 | ±9.6 % |
| | 11.00 | Y | 30.53 | 107.29 | 31.50 | | 65.0 | |
| | The same of the sa | Z | 25.37 | 102.23 | 28.19 | | 65.0 | |
| 10236- CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | X | 65.78 | 118.34 | 33.73 | 6.02 | 65.0 | ± 9.6 % |
| | | Y | 25.93 | 102.87 | 29.68 | | 65.0 | |
| | | Z | 19.72 | 96.57 | 25.94 | - | 65.0 | |
| 10237- CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | X | 76.22 | 131.13 | 39.74 | 6.02 | 65.0 | ±9.6 % |
| C/M | 30 307 | Y | 25.46 | 109.93 | 34.16 | | 65.0 | |
| | | Z | 13.89 | 97.78 | 29.12 | | 65.0 | |
| 10238- | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | X | 100.00 | 127.76 | 36.66 | 6.02 | 65.0 | ±9.69 |
| | 1 - 1Des JANGI | 1 | | | | | | - |
| CAF | 32 37 377 | Y | 30.42 | 107.23 | 31,48 | | 65.0 | |

Certificate No: EX3-3938 Oct18

Page 20 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 26 of 44

EX3DV4-SN:3938

October 24, 2018

| 10239- CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | X | 64.82 | 118,13 | 33.68 | 6.02 | 65.0 | ± 9.6 % |
|---------------|--|---|-------|--------|-------|------|------|---------|
| | | Y | 25.62 | 102.71 | 29.64 | | 65.0 | |
| 400 | | Z | 19.45 | 96.40 | 25.90 | | 65.0 | |
| 10240- CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | X | 75.84 | 131.04 | 39.71 | 6.02 | 65.0 | ±9.6 % |
| | | Y | 25.37 | 109.86 | 34.14 | 1 | 65.0 | |
| | | Z | 13.84 | 97.74 | 29.11 | | 65.0 | |
| 10241- GAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 12.34 | 87.77 | 28.06 | 6.98 | 65.0 | ±9.6 % |
| | | Y | 10.61 | 84.69 | 26.80 | - | 65.0 | 1 |
| | | Z | 9.45 | 83.27 | 25.34 | | 65.0 | |
| 10242- CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 11.90 | 86.96 | 27,68 | 6.98 | 65.0 | ±9.6 % |
| | | Y | 9.43 | 82.13 | 25.70 | | 65.0 | |
| | | Z | 8.88 | 82.07 | 24.81 | | 65.0 | |
| 10243- CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | X | 9.29 | 83.62 | 27.37 | 6.98 | 65,0 | ±.9.6 % |
| | | Y | 7.60 | 79.19 | 25.41 | | 65.0 | |
| | The second second | Z | 6.90 | 78.26 | 24.23 | | 65.0 | |
| 10244- CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | X | 11.62 | 85.25 | 22.95 | 3.98 | 65.0 | ± 9,6 % |
| | | Y | 9.03 | 81.02 | 21.07 | | 65.0 | |
| | | Z | 5.90 | 74.19 | 17.01 | | 65.0 | |
| 10245- CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | × | 11.21 | 84.37 | 22.59 | 3,98 | 65.0 | ± 9.6 % |
| | | Y | 8.74 | 80.23 | 20.72 | | 65.0 | 100 |
| | Committee of the commit | Z | 5.76 | 73.60 | 16.72 | | 65.0 | |
| 10246- CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | X | 13.76 | 91.33 | 25.01 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 8.27 | 82.50 | 21.35 | | 65.0 | |
| | | Z | 5.24 | 75.79 | 17.95 | | 65.0 | |
| 10247- CAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | X | 8.15 | 80.38 | 21.81 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 6.57 | 76.53 | 19.78 | | 65.0 | |
| | | Z | 5.10 | 72.95 | 17.52 | | 65.0 | |
| 10248- CAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | X | 7.96 | 79.46 | 21.43 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 6.50 | 75.86 | 19.49 | | 65.0 | |
| | THE RESERVE ASSESSMENT OF THE PARTY OF THE P | Z | 5.09 | 72.45 | 17.30 | | 65.0 | |
| 10249- CAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | × | 14.67 | 92.89 | 26.21 | 3.98 | 65,0 | ± 9.6 % |
| | | Y | 9.72 | 85.51 | 23.23 | | 65.0 | |
| | | Z | 6,59 | 79.52 | 20.29 | | 65.0 | |
| 10250- CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | X | 8.79 | 81.74 | 23.60 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.53 | 78.89 | 22.19 | | 65.0 | |
| 10051 | | Z | 6.20 | 76.02 | 20.42 | | 65.0 | |
| 10251- CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | X | 8.02 | 78.77 | 22.12 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.01 | 76.36 | 20.84 | | 65.0 | |
| IANCO | LTE YOU IS A SECOND | Z | 5.83 | 73.77 | 19.14 | | 65.0 | |
| 10252- CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | X | 12.21 | 89.16 | 25.66 | 3.98 | 65.0 | ±9.6 % |
| _ | | Y | 9.34 | 84.33 | 23.66 | | 65.0 | |
| 10253- | LTC TDD (DO FOLL) FOR DE | Z | 7.08 | 80.06 | 21.46 | - | 65.0 | |
| 10253- CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | X | 7.75 | 77.29 | 21.77 | 3.98 | 65.0 | ± 9.6 % |
| _ | | Y | 6.93 | 75.28 | 20.72 | | 65.0 | |
| 10254- | LTC TDD (CC COVIL FOR) | Z | 5.92 | 73.10 | 19.23 | | 65.0 | |
| 10254- CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | X | 8.16 | 78.13 | 22.42 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.34 | 76.22 | 21.42 | | 65.0 | |
| | | Z | 6.32 | 74.11 | 19.99 | | 65.0 | |

Certificate No: EX3-3938_Oct18

Page 21 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 27 of 44

EX3DV4- SN:3938

October 24, 2018

| 10255- CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | X | 9.52 | 82.96 | 23.63 | 3.98 | 65.0 | ±9.6 % |
|---------------|--|---|-------|-------|-------|------|------|---------|
| | | Y | 8.03 | 79.93 | 22.27 | | 65.0 | |
| | | Z | 6.60 | 77.07 | 20.60 | | 65.0 | |
| 10256- CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 10,25 | 82.65 | 21.16 | 3.98 | 65.0 | ±9.6 % |
| | | Y | 7.42 | 77.45 | 18.77 | | 65.0 | |
| | | Z | 4.37 | 69.73 | 14.06 | | 65.0 | |
| 10257- CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 9.67 | 81.35 | 20.60 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.07 | 76,36 | 18.24 | | 65.0 | |
| | | Z | 4.27 | 69.13 | 13.71 | | 65.0 | |
| 10258- CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | X | 11.24 | 87,41 | 23.06 | 3.98 | 65,0 | ±9.6% |
| | | Y | 6.32 | 77.82 | 18.86 | | 65.0 | |
| | tarner college | Z | 3.88 | 71.16 | 15.20 | | 65.0 | |
| 10259- CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | X | 8.37 | 80.75 | 22,39 | 3.98 | 65.0 | ±9.6 % |
| | | Y | 6.95 | 77.37 | 20.63 | | 65.0 | |
| | | 2 | 5.53 | 74.09 | 18.58 | | 65.0 | |
| 10260- CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz; 64-QAM) | X | 8.31 | 80.29 | 22.23 | 3.98 | 65.0 | ±9.6 % |
| | | Y | 6.94 | 77.04 | 20,51 | | 65.0 | |
| | The second secon | Z | 5.55 | 73.86 | 18.49 | 1000 | 65.0 | |
| 10261- CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | X | 12.47 | 89.95 | 25,58 | 3.98 | 65.0 | ±9.6 % |
| | | Y | 9:00 | 84.05 | 23.10 | | 65.0 | |
| | | Z | 6.47 | 78.99 | 20.51 | 100 | 65.0 | -4.47. |
| 10262- CAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | X | 8.78 | 81,69 | 23.56 | 3.98 | 65.0 | ± 9.6 % |
| | 122 20 207 | Y | 7,52 | 78.83 | 22.15 | | 65.0 | |
| | | 2 | 6.19 | 75.95 | 20.38 | | 65.0 | |
| 10263- CAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | X | 8.01 | 78.76 | 22.12 | 3.98 | 65.0 | ± 9.6 % |
| 20.0 | | Y | 7.00 | 76.35 | 20.83 | | 65.0 | |
| | | Z | 5.82 | 73.75 | 19.13 | | 65.0 | |
| 10264- CAF | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, OPSK) | X | 12.07 | 88.92 | 25.56 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 9.25 | 84.11 | 23.56 | | 65.0 | |
| | | Z | 7.01 | 79.85 | 21.36 | | 65.0 | |
| 10265- CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | X | 8.04 | 78.09 | 22,05 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.13 | 75.91 | 20.97 | | 65.0 | |
| | | Z | 6.04 | 73.58 | 19.44 | | 65.0 | |
| 10266- CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | X | 8.44 | 78.91 | 22,74 | 3.98 | 65.0 | ± 9.6 % |
| | | Υ | 7.55 | 76.88 | 21.73 | | 65,0 | |
| | | Z | 6,47 | 74.69 | 20.29 | | 65.0 | |
| 10267- CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | X | 10.11 | 83.73 | 23,66 | 3.98 | 65.0 | ±9.6% |
| | | Y | 8.41 | 80.47 | 22.25 | | 65.0 | |
| | THE RESERVE OF THE PARTY OF THE | Z | 6.87 | 77.57 | 20.57 | | 65.0 | |
| 10268- CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | × | 8.39 | 77.19 | 22.02 | 3.98 | 65.0 | ±9.6 % |
| | | Y | 7.65 | 75.51 | 21.20 | | 65.0 | |
| | | Z | 6.70 | 73.67 | 19.92 | | 65.0 | - |
| 10269- CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | X | 8.26 | 76.63 | 21.86 | 3.98 | 65.0 | ±9.6 % |
| | | Y | 7.58 | 75.05 | 21.07 | | 65.0 | |
| | | Z | 6.67 | 73.30 | 19.83 | | 65.0 | - |
| 10270- CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | X | 8.88 | 79.53 | 22,20 | 3.98 | 65.0 | ±9.6 % |
| 20.00 | | Y | 7.84 | 77.34 | 21.20 | | 65.0 | |
| | | | | | | | | |

Certificate No: EX3-3938 Oct18

Page 22 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 28 of 44

EX3DV4-SN:3938

October 24, 2018

| 10274- CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) | X | 2.69 | 67.00 | 15.83 | 0.00 | 150.0 | ±9.6 % |
|-----------------|--|---|-------|--------|-------|-------|-------|---------|
| | | Y | 2.47 | 65.61 | 14.67 | | 150.0 | |
| | The state of the s | Z | 2.60 | 67.27 | 15.58 | | 150.0 | |
| 10275- CAB | UMTS-FDD (HSUPA, Sublest 5, 3GPP Rel8.4) | X | 1.83 | 70.14 | 16.96 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.44 | 66.20 | 14.31 | | 150.0 | |
| | | Z | 1.70 | 69.74 | 16.44 | 1. 1. | 150.0 | |
| 10277- CAA | PHS (QPSK) | X | 3.93 | 66.44 | 11.36 | 9.03 | 50.0 | ±.9.6 % |
| | | Y | 3.47 | 64.75 | 10.20 | | 50.0 | |
| | | Z | 2.62 | 62.17 | 7.82 | | 50.0 | |
| 10278- CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5) | Х | 14.62 | 89.25 | 23.47 | 9.03 | 50.0 | ±9.6 % |
| | | Y | 7,61 | 78.00 | 18.87 | 1 | 50.0 | |
| | Land Street Control of the Control o | Z | 4.29 | 69.20 | 13.78 | | 50.0 | 1000 |
| 10279- CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38) | X | 14.85 | 89.41 | 23.56 | 9.03 | 50.0 | ± 9.6 % |
| | | Y | 7.77 | 78.24 | 18.99 | | 50.0 | |
| | | 2 | 4.39 | 69.44 | 13.93 | | 50.0 | |
| 10290- C AAB | CDMA2000, RC1, SO55, Full Rate | X | 2.10 | 73.72 | 17.06 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.20 | 65.83 | 12.24 | | 150.0 | |
| 10001 | | 2 | 1.79 | 72.49 | 15.56 | | 150.0 | |
| 10291- AAB | CDMA2000, RC3, SO55, Full Rate | X | 1.16 | 70.51 | 15.66 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.67 | 63.17 | 10.49 | | 150.0 | |
| 10000 | | Z | 0.94 | 68.71 | 13.80 | | 150.0 | |
| 10292- AAB | CDMA2000, RC3, SO32, Full Rate | X | 1.93 | 79.24 | 19.72 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 0.76 | 65.41 | 12.01 | | 150.0 | |
| 15555 | | Z | 2.01 | 80.04 | 18.85 | | 150.0 | |
| 10293- AAB | CDMA2000, RC3, SO3, Full Rate | X | 4.24 | 91.88 | 24.62 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.99 | 68.94 | 14.19 | | 150.0 | |
| | | Z | 16.88 | 110.82 | 28.51 | | 150.0 | |
| 10295- AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr. | X | 12.27 | 89.66 | 26.50 | 9.03 | 50.0 | ±9.6 % |
| | | Y | 10.64 | 85.72 | 24.40 | | 50.0 | |
| | | Z | 6.99 | 77.74 | 20.11 | | 50.0 | |
| 10297- AAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | X | 3.09 | 71.44 | 17.51 | 0.00 | 150.0 | ±9.6% |
| | | Y | 2,59 | 68.47 | 15.73 | | 150.0 | |
| 171.17 | | Z | 2.87 | 71.14 | 17.24 | | 150.0 | |
| 10298- AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | X | 2.03 | 71.15 | 16.52 | 0.00 | 150.0 | ±9.6 % |
| | | Υ | 1.39 | 65.75 | 12.91 | | 150.0 | |
| 10299- | 177 500 (00 501) | Z | 1.75 | 70.22 | 15.26 | | 150.0 | |
| AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | X | 4.66 | 77.12 | 18.36 | 0.00 | 150.0 | ±9.6% |
| _ | | Y | 3.14 | 71.60 | 15.64 | | 150.0 | |
| 10300- | LTE EDD /OC EDMA FOR THE | Z | 3.75 | 74.00 | 15.70 | | 150.0 | |
| AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | X | 2.97 | 69.66 | 14.52 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.26 | 66.29 | 12,46 | | 150.0 | |
| 10301- | IEEE 802 180 WILLIAM VIOLAGE | Z | 2.17 | 66.32 | 11.62 | | 150.0 | |
| AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC) | X | 5,32 | 66.98 | 18.36 | 4.17 | 50.0 | ± 9.6 % |
| | | Y | 5.22 | 66.88 | 18.11 | | 50.0 | |
| 10302- | IEEE DOD 40- WINAY (AC 12 | Z | 4.67 | 65.61 | 17.38 | | 50.0 | |
| 10302- AAA | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 5.74 | 67.34 | 18.93 | 4.96 | 50.0 | ± 9.6 % |
| | | Y | 5.58 | 66.87 | 18.46 | | 50.0 | |
| | | Z | 5.16 | 66.25 | 18.09 | | 50.0 | |

Certificate No: EX3-3938_Oct18

Page 23 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 29 of 44

EX3DV4- SN:3938

October 24, 2018

| 10303- AAA | IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC) | × | 5.54 | 67.22 | 18.91 | 4:96 | 50.0 | ±9.6 % |
|---------------|---|-------|--------------|--------|-------|-------|-------|---------|
| 11/1 | | Y | 5.37 | 66.70 | 18.39 | | 50.0 | |
| | | 2 | 4.93 | 65:95 | 17.95 | | 50.0 | |
| 10304- AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) | X | 5.28 | 66.83 | 18,25 | 4.17 | 50.0 | ±9.6 % |
| | 7,011,112,113,113,113,113,113,113,113,113,1 | Y | 5.10 | 66:29 | 17.74 | | 50.0 | |
| | | Z | 4.73 | 65.82 | 17.46 | | 50.0 | |
| 10305- AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols) | X | 5.67 | 72.27 | 22.34 | 6.02 | 35.0 | ±9.6 % |
| 441 | Town IL, o'rea my roos, 10 symbols | Y | 5.72 | 72.48 | 21,90 | | 35.0 | |
| | | Z | 4.66 | 68.90 | 20.05 | | 35.0 | |
| 10306- AAA | IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols) | X | 5.47 | 68.37 | 20.21 | 6.02 | 35.0 | ±9.6 % |
| | 1311/11/2014 | Y | 5.52 | 69:50 | 20.64 | | 35.0 | |
| | | Z | 4.82 | 67.24 | 19.32 | | 35.0 | |
| 10307- AAA | IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols) | X | 5.58 | 70.12 | 21.19 | 6.02 | 35.0 | ±9.6 % |
| | Tomas and the second | Y | 5.54 | 70.11 | 20.79 | | 35.0 | |
| | | Z | 4.75 | 67.57 | 19.37 | | 35.0 | |
| 10308- | IEEE 802.16e WiMAX (29:18, 10ms, | X | 5.58 | 70.46 | 21.39 | 6.02 | 35.0 | ± 9.6 % |
| AAA | 10MHz, 16QAM, PUSC) | - 1 | 1 5 5 4 | | 12.00 | - | 4 100 | 100 |
| | | Y | 5.56 | 70.49 | 21.00 | | 35.0 |) = |
| | | Z | 4,74 | 67.84 | 19.54 | | 35.0 | |
| 10309- AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | × | 5,56 | 68,68 | 20.38 | 6.02 | 35.0 | ± 9.6 % |
| | | Y | 5.61 | 69.80 | 20.81 | | 35.0 | |
| | | Z | 4.87 | 67.43 | 19.45 | - | 35.0 | |
| 10310- AAA | IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols) | X | 5.54 | 69.67 | 21.04 | 6.02 | 35.0 | ± 9.6 % |
| | | Y | 5.51 | 69.73 | 20.68 | | 35.0 | · |
| 172 | | Z | 4.78 | 67.38 | 19.33 | | 35.0 | J |
| 10311- AAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | Х | 3.47 | 70.67 | 17,10 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.93 | 67.81 | 15.46 | | 150.0 | |
| | | Z | 3.26 | 70.40 | 16.86 | | 150.0 | |
| 10313- AAA | IDEN 1:3 | X | 10.55 | 84.71 | 20.54 | 6.99 | 70.0 | ±9.69 |
| | | Y | 5.52 | 75.51 | 16.93 | | 70.0 | |
| | | Z | 3.35 | 69.99 | 14.11 | - | 70.0 | |
| 10314- AAA | IDEN 1:6 | X | 24.93 | 102.67 | 28,79 | 10.00 | 30.0 | ±9.69 |
| | | Y | 8.40 | 84.46 | 22.81 | | 30.0 | |
| | | Z | 4.59 | 75.67 | 18.98 | | 30.0 | |
| 10315- AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle) | × | 1.16 | 65.40 | 16.44 | 0.17 | 150.0 | ±9.6 % |
| | | Y | 1.01 | 63.11 | 14.44 | | 150.0 | |
| | | Z | 1.08 | 64.77 | 15.73 | 1 | 150.0 | |
| 10316- AAB | IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle) | X | 4.72 | 66.92 | 16.53 | 0.17 | 150.0 | ± 9.6 9 |
| | | Y | 4.56 | 66.38 | 16.12 | | 150.0 | |
| | | 2 | 4.51 | 66.86 | 16.22 | | 150.0 | |
| 10317- AAC | IEEE 802,11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle) | Х. | 4.72 | 66,92 | 16.53 | 0,17 | 150.0 | ± 9.6 % |
| | | Y | 4.56 | 66.38 | 16.12 | | 150.0 | |
| | | Z | 4.51 | 66.86 | 16.22 | | 150.0 | |
| | IEEE 802.11ac WiFi (20MHz, 64-QAM, | X | 4.84 | 67,20 | 16.45 | 0.00 | 150.0 | ± 9.6 9 |
| 10400- AAD | 99pc duty cycle) | 16.00 | | | 16,02 | | 150.0 | |
| | | Y | 4.66 | 66.61 | 10,02 | | | |
| | | Y | 4.66 4.63 | 66.61 | 16.28 | | 150.0 | |
| AAD 10401- | 99pc duty cycle) IEEE 802.11ac WiFi (40MHz, 64-QAM, | | | | | 0.00 | | ± 9.6 % |
| AAD | 99pc duty cycle) | Z | 4.63 | 67.25 | 16.28 | 0.00 | 150.0 | ± 9.6 % |

Certificate No: EX3-3938_Oct18

Page 24 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 30 of 44

EX3DV4-SN:3938

October 24, 2018

| 10402- AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle) | X | 5.76 | 67.75 | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|---------------|--|----|--------|--------|-------|-------|-------|---------|
| | | Y | 5.61 | 67.21 | 16,26 | | 150.0 | |
| | Taxan and the same | Z | 5.57 | 67.70 | 16.42 | | 150.0 | |
| 10403- AAB | CDMA2000 (1xEV-DO, Rev. 0) | X | 2.10 | 73.72 | 17,06 | 0.00 | 115.0 | ±9.6 % |
| | V | Y | 1.20 | 65.83 | 12.24 | | 115.0 | |
| | | 2 | 1.79 | 72.49 | 15.56 | | 115.0 | |
| 10404- AAB | CDMA2000 (1xEV-DO, Rev. A) | X | 2.10 | 73.72 | 17.06 | 0.00 | 115.0 | ± 9.6 % |
| | | Y | 1.20 | 65.83 | 12.24 | - | 115.0 | 12. |
| - | | Z | 1.79 | 72.49 | 15.56 | | 115.0 | |
| 10406- AAB | CDMA2000, RC3, SO32, SCH0, Full Rate | X | 100.00 | 122.19 | 31.29 | 0.00 | 100.0 | ± 9.6 % |
| | | Y | 29.24 | 105.80 | 27.50 | | 100.0 | |
| | | Z | 100.00 | 114.73 | 27.11 | | 100.0 | |
| 10410- AAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | × | 100,00 | 121.06 | 30.81 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 121.88 | 31.03 | | 80.0 | |
| | | Z | 83.71 | 111.58 | 25.89 | -3.51 | 80.0 | |
| 10415- AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) | X | 1.03 | 63.90 | 15.54 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.91 | 61.92 | 13.65 | | 150.0 | |
| | | Z | 0.99 | 63.88 | 15.24 | | 150.0 | |
| 10416- AAA | IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle) | X | 4.64 | 66.82 | 16,39 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 4.48 | 66.26 | 15.97 | | 150.0 | |
| | | Z | 4.48 | 66.96 | 16.25 | | 150.0 | |
| 10417- AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) | X | 4.64 | 66.82 | 16,39 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 4.48 | 66.26 | 15.97 | | 150.0 | |
| 75000 | | Z | 4.48 | 66.96 | 16.25 | | 150.0 | |
| 10418- AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule) | X. | 4.63 | 66,97 | 16.41 | 0.00 | 150.0 | ±9,6% |
| | | Y | 4.47 | 66,40 | 15.97 | | 150.0 | |
| | | Z | 4.47 | 67.14 | 16.29 | | 150.0 | |
| 10419- AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule) | X | 4.65 | 66,92 | 16.41 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.49 | 66.36 | 15.98 | | 150.0 | |
| | | Z | 4.49 | 67.08 | 16.28 | | 150.0 | |
| 10422- AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) | X | 4.78 | 66.92 | 16.42 | 0.00 | 150,0 | ± 9.6 % |
| | | Y | 4.61 | 66.37 | 16.01 | | 150.0 | |
| 10100 | America de la Companya del Companya de la Companya del Companya de la Companya de | Z | 4.61 | 67.05 | 16.28 | | 150.0 | |
| 10423- AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) | X | 4.98 | 67.29 | 16,55 | 0.00 | 150.0 | ±9.6 % |
| | | Υ | 4.79 | 66.71 | 16.13 | | 150.0 | |
| 10424- | IFFF 000 44 AVE 6 | Z | 4.77 | 67.36 | 16.39 | | 150.0 | |
| AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) | X | 4.89 | 67,24 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.70 | 66.65 | 16.10 | | 150.0 | |
| 10425- | IEEE BOO ALL AIT CO. TO A LEGIS | Z | 4.69 | 67.32 | 16.37 | | 150.0 | |
| AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) | X | 5.44 | 67.47 | 16.62 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 5.32 | 67.05 | 16.33 | | 150.0 | |
| 10426- | IEEE OOG 14- HIT C | Z | 5.25 | 67.48 | 16,46 | | 150.0 | |
| AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) | X | 5.45 | 67.50 | 16.63 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 5.32 | 67.06 | 16.33 | | 150.0 | |
| | | Z | 5.26 | | | | | |

Certificate No: EX3-3938_Oct18

Page 25 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 31 of 44

EX3DV4- SN:3938

October 24, 2018

| 10427- AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) | X | 5,47 | 67.52 | 16.63 | 0.00 | 150.0 | ±9,6% |
|---------------|--|----|--------|--------|-------|-------|-------|---------|
| | | Y | 5.33 | 67.04 | 16.31 | | 150.0 | |
| | | Z | 5.28 | 67.50 | 16.46 | | 150.0 | L |
| 10430- AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) | X | 4.44 | 70.94 | 18.55 | 0.00 | 150.0 | ±9.6 % |
| | | Υ | 4.14 | 70.00 | 17.76 | | 150.0 | |
| | | Z | 4.53 | 72.71 | 19.04 | | 150.0 | |
| 10431- AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) | X | 4.38 | 67.45 | 16.50 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 4.17 | 66.74 | 15.93 | | 150.0 | |
| | | Z | 4.18 | 67.60 | 16.31 | | 150.0 | |
| 10432- AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) | X | 4.67 | 67.30 | 16.51 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.47 | 66.66 | 16.03 | | 150.0 | |
| | | Z | 4.47 | 67.41 | 16.34 | | 150.0 | 1 |
| 10433- AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) | X | 4.90 | 67.28 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
| - | | Y | 4.72 | 66.69 | 16.12 | | 150.0 | |
| | The same of the sa | Z | 4.71 | 67.36 | 16.39 | | 150.0 | |
| 10434- AAA | W-CDMA (BS Test Model 1, 64 DPCH) | Х | 4.58 | 71 86 | 18.63 | 0.00 | 150.0 | ± 9.6 % |
| | 1 | Υ | 4.21 | 70.69 | 17.67 | | 150.0 | |
| | | Z | 4.78 | 74.08 | 19.21 | 10000 | 150.0 | |
| 10435- AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 120.88 | 30.73 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 121.69 | 30.95 | | 80.0 | |
| | | Z | 66.38 | 108.66 | 25.18 | | 80.0 | |
| 10447- AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | X | 3.72 | 67.65 | 16,10 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 3.44 | 66.58 | 15.18 | | 150.0 | _ |
| | The section of the se | 2 | 3.50 | 67.81 | 15.74 | | 150.0 | |
| 10448- AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%) | X. | 4,21 | 67,23 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.00 | 66.50 | 15.77 | | 150.0 | |
| | | Z | 4.02 | 67,40 | 16.18 | | 150.0 | |
| 10449- AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%) | X | 4.46 | 67.14 | 16.42 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 4.27 | 66.48 | 15.91 | | 150.0 | |
| | | Z | 4.28 | 67.27 | 16.26 | | 150,0 | |
| 10450- AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | X | 4.64 | 67.06 | 16.42 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 4.47 | 66.43 | 15.96 | | 150.0 | |
| | | Z | 4.47 | 67.16 | 16.26 | | 150.0 | |
| 10451- AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%) | X | 3.66 | 68.00 | 15.89 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 3.33 | 66.69 | 14.77 | | 150.0 | |
| | | Z | 3.40 | 68.05 | 15.38 | | 150.0 | 1 |
| 10456- AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle) | X | 6,29 | 68,08 | 16.78 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 6,17 | 67.63 | 16.50 | | 150.0 | |
| | HANGE THE RESERVE TO | Z | 6.11 | 68,01 | 16.58 | | 150.0 | |
| 10457- AAA | UMTS-FDD (DC-HSDPA) | × | 3.83 | 65,45 | 16.13 | 0.00 | 150.0 | ±9.6% |
| | | Y | 3.72 | 64.89 | 15.67 | | 150.0 | |
| 7 | I Famous areas | Z | 3,74 | 65.60 | 15.98 | | 150.0 | |
| 10458- AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) | X | 4.16 | 70.93 | 18.07 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 3.83 | 69.80 | 17.01 | | 150.0 | |
| | The street of the second | Z | 4.35 | 73.12 | 18.49 | | 150.0 | |
| 10459- AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers) | X | 5.20 | 68.00 | 18,25 | 0.00 | 150.0 | ±9.6 9 |
| | | Y | 5.01 | 67.77 | 17.91 | | 150.0 | |
| | | Z | 5.25 | 69.65 | 18.70 | | 150.0 | |

Certificate No: EX3-3938_Oct18

Page 26 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 32 of 44

EX3DV4-SN:3938

October 24, 2018

| 10460- AAA | UMTS-FDD (WCDMA, AMR) | X | 1.12 | 72.77 | 18.83 | 0.00 | 150.0 | ±9,6 % |
|---------------|--|-----|--------|-----------------|----------------|------|-------|---------|
| | | Y | 0.73 | 65.44 | 13.95 | | 150.0 | |
| V. 1 | The second second second | Z | 1.01 | 71.76 | 18.00 | | 150.0 | |
| 10461- AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 126,43 | 33.33 | 3.29 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 125.87 | 32.93 | | 80.0 | |
| | | Z | 90.37 | 116.03 | 27.82 | | 80.0 | |
| 10462- AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | × | 100.00 | 109.98 | 25.58 | 3.23 | 80.0 | ± 9.6 9 |
| | The state of the s | Y | 100.00 | 109.45 | 25.26 | | 80.0 | - |
| | | 7 | 1.10 | 60,79 | 7.88 | | 80.0 | |
| 10463- AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9) | X | 100.00 | 106.70 | 24.02 | 3.23 | 80.0 | ± 9.6 % |
| 1777 | 1000000 | Y | 49.13 | 98.79 | 22.03 | | B0:0 | |
| | | Z | 1.03 | 60.00 | 7.05 | | 80.0 | |
| 10464- AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 124.44 | 32.24 | 3.23 | 80.0 | ±9.6 % |
| | 20,111,213 | Y | 100.00 | 123.71 | 31.77 | | 80.0 | _ |
| | A COLUMN TO THE PARTY OF THE PA | Z | 25.98 | 98.94 | 23.07 | | 80.0 | |
| 10465- | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- | X | 100.00 | 109.41 | 25.30 | 3.23 | 80.0 | 1000 |
| AAB | QAM, UL Subframe=2,3,4,7,8,9) | Y | 100.00 | 108.89 | 24.99 | 3.23 | 2.00 | ±9.6 % |
| | | Z | 1.05 | 60.34 | | | 80.0 | |
| 10466- | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- | X | 100.00 | | 7.60 | 0.00 | 80.0 | |
| AAB | QAM, UL Subframe=2,3,4,7,8,9) | ^ Y | 17.42 | 106.17 | 23.77 | 3.23 | 80.0 | ±9.6 % |
| _ | | Z | 1.03 | 87.73 | 19.16 | | 80.0 | |
| 10467- AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 60.00 124.67 | 7.00 32.35 | 3.23 | 80.0 | ±9.6 % |
| | 3, 3(1 02 3danamo 2,3,1,7,0,3) | Y | 100.00 | 123.95 | 31.88 | | 00.0 | |
| | | Z | 34.96 | | | | 80.0 | |
| 10468- AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 102.47 | 23.96 25.38 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 109.06 | 25.07 | | 20.0 | |
| | | Z | 1.06 | 60.45 | | | 80.0 | |
| 10469- AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 106.18 | 7.67 23.77 | 3,23 | 80.0 | ±.9.6 % |
| | alognition) | Y | 18.04 | 88.11 | 19.26 | | 00.0 | |
| | | Z | 1.03 | 60.00 | 7.00 | | 80.0 | |
| 10470- AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 124.71 | 32,35 | 3.23 | 80.0 | ± 9.6 % |
| | and the local | Y | 100.00 | 123.98 | 31.88 | | 80.0 | |
| | | Z | 35.24 | 102.56 | 23.97 | | 80.0 | |
| 10471- AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 109.53 | 25.35 | 3,23 | 80.0 | ±9.6 % |
| | | Y | 100.00 | 109.01 | 25.04 | | 80.0 | |
| | Contract to the contract of th | Z | 1.05 | 60.40 | 7.64 | | 80.0 | |
| 10472- AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9) | × | 100.00 | 106.13 | 23.74 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 17.90 | 88.00 | 19.21 | | 80.0 | |
| | | Z | 1.03 | 60.00 | 6.99 | | 80.0 | |
| 10473- AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 124.67 | 32,34 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 123.95 | 31.87 | | 80.0 | |
| | | Z | 34.67 | 102.34 | 23.91 | | 80.0 | |
| 10474- AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9) | × | 100.00 | 109.54 | 25.35 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 109.01 | 25.04 | | 80.0 | |
| | | Z | 1.05 | 60.39 | 7.63 | | 80.0 | |
| 10475- AAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 106.14 | 23.74 | 3.23 | 80.0 | ±9.6 % |
| TO The | | | | | | | | |
| 0 12 | | Υ | 17.52 | 87.78 | 19.16 | | 80.0 | |

Certificate No: EX3-3938_Oct18

Page 27 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 33 of 44

EX3DV4-SN:3938

October 24, 2018

| 10477- AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 109,37 | 25.27 | 3,23 | 80.0 | ± 9.6 % |
|---------------|--|---|--------|--------|-------|------|------|-----------|
| | | Υ | 100.00 | 108.84 | 24.96 | | 80.0 | |
| el de el | | Z | 1.03 | 60.28 | 7.55 | | 80.0 | |
| 10478- AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9) | × | 100.00 | 106.09 | 23.72 | 3,23 | 80.0 | ± 9.6 % |
| | | Y | 17.03 | 87.46 | 19.06 | | 80.0 | |
| | | Z | 1.03 | 60.00 | 6.98 | | 80.0 | |
| 10479- AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | Х | 32.47 | 108.40 | 30.35 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 23.42 | 102.58 | 28.36 | | 80.0 | |
| J 301 | | Z | 8.33 | 85.84 | 21.97 | | 80.0 | |
| 10480- AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 42.90 | 105.02 | 27.50 | 3.23 | 80.0 | ±9.6 % |
| | | Y | 20.70 | 94.12 | 24.14 | | 80.0 | |
| | | Z | 6.08 | 76.74 | 17.02 | | 80.0 | |
| 10481- AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 32.63 | 100.01 | 25.80 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 15.67 | 89.38 | 22.38 | | 80.0 | |
| | The state of the s | Z | 4.46 | 72.49 | 15.13 | | 80.0 | |
| 10482- AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 9.20 | 87.35 | 23.04 | 2.23 | 80.0 | ±9.6% |
| | | Y | 3.94 | 74.35 | 17.65 | | 80.0 | |
| | | Z | 2.70 | 70.00 | 15.33 | | 80.0 | |
| 10483- AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | x | 15.24 | 90.75 | 23.81 | 2.23 | 80.0 | ±9.6 % |
| | | Y | 9.78 | 83.78 | 21.08 | | 80.0 | |
| | | Z | 3.87 | 71.04 | 15.19 | | 80.0 | |
| | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | × | 12.87 | 88.08 | 23.00 | 2.23 | 80.0 | ±9.6 % |
| | 1 | Y | 8.49 | 81.59 | 20.36 | | 80.0 | |
| | | Z | 3.66 | 70.14 | 14.84 | | 80.0 | |
| 10485- AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 7.98 | 85.70 | 23.28 | 2.23 | 80.0 | ±9.6 % |
| | | Y | 4.36 | 75.94 | 19.15 | | 80.0 | |
| | | Z | 3.22 | 72:33 | 17.26 | | 80.0 | |
| 10486- AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.36 | 76.17 | 19.55 | 2.23 | 80.0 | ± 9.6 % |
| | The second secon | Y | 3.79 | 70.74 | 16.72 | | 80.0 | |
| | the first and a second second second | Z | 3.08 | 68.57 | 15.26 | | 80.0 | it was |
| 10487- AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.22 | 75.40 | 19.25 | 2.23 | 80.0 | ±9.6 % |
| | | Y | 3.77 | 70.31 | 16.54 | | 80.0 | |
| | | Z | 3.08 | 68.23 | 15.10 | | 80.0 | |
| 10488- AAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 6.58 | 81.06 | 22.14 | 2.23 | 80.0 | ±9.6 % |
| | | Y | 4.49 | 74.73 | 19.35 | | 80.0 | |
| | | Z | 3.58 | 72.12 | 17.94 | | 80.0 | 1 |
| 10489- AAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | × | 4.86 | 73.47 | 19.42 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.01 | 70.32 | 17.71 | | 80.0 | - |
| | I The second sec | Z | 3.48 | 68.92 | 16.70 | | 80.0 | 1 7 7 7 7 |
| 10490- AAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.88 | 72.95 | 19.23 | 2.23 | 80.0 | ±9.6 % |
| | | Y | 4.10 | 70.09 | 17.64 | - | 80.0 | |
| | A CONTRACT OF THE PARTY OF THE | Z | 3.57 | 68.77 | 16.66 | | 80.0 | 200 |
| 10491- AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 5.85 | 76.95 | 20.70 | 2.23 | 80.0 | ±9.6 % |
| | | Y | 4.52 | 72,66 | 18.69 | | 80.0 | |
| | | Z | 3.82 | 70.84 | 17.60 | | 80.0 | 1 |
| 10492- AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4:94 | 71.68 | 18.90 | 2.23 | 80.0 | ±9.69 |
| | | Y | 4.31 | 69.40 | 17.63 | | 80.0 | |
| | | Z | 3.83 | 68.32 | 16.79 | 1 | 80.0 | 1 |

Certificate No: EX3-3938_Oct18

Page 28 of 39

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

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



Rev: 01

Page: 34 of 44

October 24, 2018

| 10493- AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.97 | 71.38 | 18.79 | 2.23 | 80,0 | ±9.6 % |
|---------------|--|-----|------|-------|-------|------|------|---------|
| | | Y | 4,37 | 69,24 | 17.58 | | 80.0 | |
| | | Z | 3.90 | 68.20 | 16.76 | | 80.0 | |
| 10494- AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | × | 6.95 | 79,86 | 21.58 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.99 | 74.37 | 19.18 | | 80.0 | |
| | | Z | 4.13 | 72.26 | 18.02 | | 80.0 | 1 = 1 |
| 10495- AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | × | 5.07 | 72.39 | 19.18 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.37 | 69.87 | 17.84 | | 80.0 | |
| | | Z | 3.87 | 68.70 | 16,98 | | 80.0 | 1 |
| 10496- AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.07 | 71.80 | 18,98 | 2.23 | 80.0 | ± 9.6 % |
| | The state of the s | Y | 4.43 | 69.53 | 17.74 | | 80.0 | |
| | Annual Control of the | Z | 3.95 | 68.45 | 16.92 | | 80.0 | |
| 10497- AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 7.77 | 84.28 | 21.25 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 2.76 | 69.51 | 14.83 | | 80.0 | |
| | The second secon | Z | 1.83 | 65.26 | 12.27 | | 80.0 | |
| 10498- AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | × | 4.10 | 72.22 | 15.94 | 2.23 | 80.0 | ±9.6 % |
| | | Y | 2.08 | 63.53 | 11.20 | 1 | 80.0 | |
| | D. S. TOTEL DAVIS CELLS | Z | 1.49 | 60.84 | 9.11 | | 80.0 | |
| 10499- AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.88 | 71_14 | 15.38 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 2.02 | 62.98 | 10.80 | | 80.0 | |
| 100 | | Z | 1.45 | 60.40 | 8.75 | | 80.0 | |
| 10500- AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7.8,9) | X | 6.85 | 82.59 | 22.44 | 2.23 | 80.0 | ±9,6 % |
| | | Y | 4.30 | 75.01 | 19.09 | | 80.0 | |
| | Control of the Contro | Z | 3.32 | 71.99 | 17.46 | | 80.0 | |
| 10501- AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.08 | 74.80 | 19.39 | 2.23 | 80.0 | ±9.6 % |
| | | Y | 3.90 | 70.59 | 17.11 | | 80.0 | |
| 10000 | | Z | 3.27 | 68.83 | 15.87 | | 80.0 | |
| 10502- AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.08 | 74.42 | 19.19 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 3.94 | 70.38 | 16,98 | | 80.0 | |
| | | Z | 3.32 | 68.68 | 15.75 | | 80.0 | |
| 10503- AAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 6.47 | 80.76 | 22,03 | 2.23 | 80.0 | ±9.6 % |
| | | Y | 4.42 | 74.51 | 19.24 | | 80.0 | |
| 10001 | LEE CON CONTROL OF THE CONTROL OF TH | Z | 3.53 | 71.90 | 17:84 | | 80.0 | |
| 10504- AAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.84 | 73.36 | 19.37 | 2.23 | 80.0 | ±.9.6 % |
| | | Y | 3,99 | 70.22 | 17.65 | | 80.0 | |
| 10505- | LTC TOD (SO FOLK) | Z | 3.46 | 68.82 | 16.64 | | 80.0 | |
| AAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | × | 4.85 | 72.84 | 19.17 | 2.23 | 80.0 | ±9.6 % |
| | | Y | 4.07 | 69.98 | 17.58 | | 80.0 | |
| 10506- | LTE TOD (SC EDMA 1000) DE 35 | Z | 3.55 | 68.67 | 16.60 | | 80.0 | |
| AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 6.87 | 79.65 | 21.49 | 2.23 | 80.0 | ±9.6 % |
| | | Y | 4.94 | 74.20 | 19.10 | | 80.0 | |
| 10507- | LTE-TDD (SC-FDMA, 100% RB, 10 | Z | 4.10 | 72.10 | 17.94 | | 0.08 | |
| AAE | MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.05 | 72.32 | 19.14 | 2.23 | 80.0 | ±9.6% |
| | | 100 | | | | | | |
| | | Y | 4.35 | 69.81 | 17.80 | | 0.08 | |

Certificate No: EX3-3938_Oct18.

Page 29 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 35 of 44

EX3DV4-SN:3938

October 24, 2018

| 10508- AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.05 | 71.72 | 18,93 | 2.23 | 80.0 | ± 9.6 % |
|---------------|--|-----|------|-------|-------|------|-------|---------|
| | | Y | 4.41 | 69.46 | 17.70 | | 80.0 | |
| | | Z | 3.93 | 68.38 | 16.87 | | 80.0 | |
| 10509- AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 6.42 | 76.31 | 20,23 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 5.10 | 72.45 | 18,45 | | 80.0 | |
| | | Z | 4.44 | 71.04 | 17.56 | | 80.0 | |
| 10510- AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.41 | 71.43 | 18,82 | 2,23 | 80.0 | ±9,6% |
| | | Y | 4.81 | 69.39 | 17.73 | | 80.0 | |
| | A CONTRACTOR OF THE PROPERTY O | Z | 4.34 | 68.44 | 16.99 | | 80.0 | |
| 10511- AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.40 | 70.96 | 18.67 | 2,23 | 80.0 | ±9.6 % |
| | | Y | 4.84 | 69.09 | 17.65 | 7 | 80.0 | |
| | K F COK MC MC CO | Z | 4.39 | 68.21 | 16.94 | | 80.0 | |
| 10512- AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | × | 7.47 | 79.47 | 21.24 | 2,23 | 0.08 | ± 9.6 % |
| | Military Still on Secondaria Statisticals. | Y | 5.46 | 74.25 | 18.99 | | 80.0 | |
| | | Z | 4.64 | 72.47 | 17.97 | | 80.0 | |
| 10513- AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.39 | 72.08 | 19.07 | 2.23 | 80.0 | ±9.6 % |
| | | Y | 4.72 | 69.76 | 17.86 | | 80.0 | |
| | | Z | 4.23 | 68.69 | 17.07 | | 80.0 | |
| 10514- AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.30 | 71.34 | 18.83 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.71 | 69.27 | 17.73 | | 80.0 | |
| | | Z | 4.25 | 68.30 | 16.97 | | 80.0 | |
| 10515- AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) | X | 0.99 | 64.18 | 15,67 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.87 | 62.03 | 13.65 | | 150.0 | |
| | | Z | 0.96 | 64.13 | 15.35 | | 150.0 | |
| 10516- AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) | X | 1.07 | 82,62 | 23.29 | 0,00 | 150.0 | ±9.6 % |
| | | Y | 0.42 | 66.18 | 13.67 | | 150.0 | |
| | | Z | 0.79 | 78.03 | 21.08 | | 150.0 | |
| 10517- AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) | X | 0.89 | 67.34 | 17.01 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.70 | 63.35 | 13.75 | | 150.0 | |
| | | Z | 0.83 | 66.82 | 16.43 | | 150.0 | |
| 10518- AAB | IEEE 802,11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) | Х | 4.64 | 66.90 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.47 | 66.33 | 15.94 | | 150.0 | |
| | A STATE OF THE STA | Z | 4.47 | 67.04 | 16.24 | | 150.0 | |
| 10519- AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) | .X. | 4.85 | 67,18 | 16.51 | 0.00 | 150.0 | ± 9.6 % |
| 7 | | Y | 4.67 | 66.59 | 16.08 | | 150.0 | |
| | The state of the s | 2 | 4.65 | 67.25 | 16.34 | 1000 | 150.0 | |
| 10520- AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) | X | 4.71 | 67.17 | 16,45 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 4.52 | 66.54 | 15.99 | | 150.0 | |
| | the state of the s | Z. | 4.51 | 67.23 | 16.28 | 20.2 | 150.0 | |
| 10521- AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) | X | 4.64 | 67,19 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.45 | 66.53 | 15,97 | | 150.0 | |
| | the state of the s | Z | 4.44 | 67.24 | 16.27 | - | 150.0 | |
| 10522- AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) | X | 4.69 | 67.17 | 16.48 | 0,00 | 150,0 | ± 9.6 % |
| | | Y | 4,51 | 66.60 | 16.04 | | 150.0 | |
| | | Z | 4.50 | 67.33 | 16.35 | | 150.0 | |

Certificate No: EX3-3938_Oct18

Page 30 of 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.

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

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Rev: 01

Page: 36 of 44

EX3DV4- SN:3938

October 24, 2018

| 10523- AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.56 | 67.08 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|---------------|--|-----|------|-------|-------|------|-------|-------------|
| | The American | Y | 4.38 | 66.45 | 15.88 | 1 | 150.0 | |
| | | Z | 4.39 | 67.23 | 16.22 | | 150.0 | |
| 10524- AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.64 | 67.13 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.45 | 66.52 | 16.01 | | 150.0 | |
| | the state of the s | Z | 4:44 | 67.24 | 16.32 | | 150.0 | 1- |
| 10525- AAB | IEEE 802,11ac WiFi (20MHz, MCS0, 99pc duty cycle) | X | 4.60 | 66.17 | 16.06 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 4.43 | 65.55 | 15.60 | | 150.0 | |
| | | 2 | 4.44 | 66.33 | 15.94 | | 150.0 | |
| 10526- AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) | X | 4.80 | 66,57 | 16.20 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.60 | 65.93 | 15.75 | | 150.0 | |
| 10000 | | Z | 4.61 | 66.68 | 16.07 | | 150.0 | 1 4 4 4 4 4 |
| 10527- AAB | IEEE 802,11ac WiFi (20MHz, MCS2, 99pc duty cycle) | X | 4.72 | 66.55 | 16.16 | 0,00 | 150.0 | ± 9.6 % |
| | | Y | 4.52 | 65.88 | 15.69 | | 150.0 | |
| 10500 | THE DOCAL LAND | Z | 4.53 | 66.66 | 16.02 | | 150.0 | |
| 10528- AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) | × | 4.73 | 66.57 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.54 | 65.90 | 15.72 | | 150.0 | |
| 10000 | The same of the sa | Z | 4.55 | 66.67 | 16.05 | | 150.0 | |
| 10529- AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) | x | 4.73 | 66.57 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.54 | 65.90 | 15,72 | | 150.0 | |
| - man | | Z | 4.55 | 66.67 | 16.05 | | 150.0 | |
| 10531- AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) | X | 4.74 | 66.72 | 16.22 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 4.53 | 66.01 | 15.73 | | 150.0 | |
| 48500 | LICENS AND ADDRESS OF THE PARTY | Z | 4.53 | 66.77 | 16.06 | | 150.0 | |
| 10532- AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) | X | 4.60 | 66.59 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.39 | 65.86 | 15.66 | | 150.0 | |
| 10533- | ICCE ODD 44 - MUST COMMITTED TO THE COMM | Z | 4.40 | 66.64 | 16.01 | | 150.0 | |
| AAB | IEEE 802,11ac WiFi (20MHz, MCS8, 99pc duty cycle) | .X. | 4.75 | 66,60 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
| _ | | Y | 4.55 | 65.94 | 15.70 | | 150.0 | |
| | | Z | 4.56 | 66.73 | 16.05 | - | 150.0 | |
| 10534- AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle) | X | 5.24 | 66.67 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.08 | 66.08 | 15.82 | | 150.0 | |
| 10535- | IEEE CON 1 | Z | 5.06 | 66.70 | 16.06 | | 150.0 | |
| AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle) | Х | 5.31 | 66.81 | 16,26 | 0.00 | 150.0 | ±9.6% |
| | | Y | 5.14 | 66.24 | 15.89 | | 150.0 | |
| 10536- | TEEE DOOR AND THE COMMENT AND A STATE OF | Z | 5.12 | 66.85 | 16.13 | | 150.0 | |
| AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle) | X | 5.18 | 66.81 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.01 | 66.19 | 15.84 | | 150.0 | |
| 10537- | IEEE 802 11pg WGE (40MH = 1/000 | Z | 5.00 | 66.84 | 16.11 | | 150.0 | |
| AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle) | X | 5.24 | 66.77 | 16.23 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 5.07 | 66.17 | 15.84 | | 150.0 | |
| 10538- | IEEE ROS 1100 MICH (1014) | Z | 5.06 | 66.79 | 16.08 | | 150.0 | |
| AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle) | X | 5.35 | 66.82 | 16.29 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 5.17 | 66.21 | 15.90 | | 150.0 | |
| 10540- | IEEE 909 Hara MIE (10) III - 1755 | Z | 5.14 | 66.79 | 16.12 | | 150.0 | |
| AAB | IEEE 802,11ac WiFi (40MHz, MCS6, 99pc duty cycle) | X | 5.25 | 66.78 | 16,29 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 5.09 | 66,21 | 15.91 | | 150.0 | |
| | | Z | 5.07 | 66.78 | 16.13 | | 150.0 | |

Certificate No: EX3-3938_Oct18

Page 31 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 37 of 44

EX3DV4- SN:3938

October 24, 2018

| 10541- AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle) | X | 5.24 | 66.69 | 16.24 | 0.00 | 150.0 | ±9.6 % |
|---------------|--|---|------|-------|-------|------|-------|---------|
| | | Y | 5.06 | 66.08 | 15.84 | | 150.0 | |
| | | Z | 5.05 | 66.69 | 16.08 | | 150.0 | |
| 10542- AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle) | X | 5.38 | 66,72 | 16.27 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 5.22 | 66.16 | 15.90 | | 150.0 | |
| | and the second second second | Z | 5.20 | 66.74 | 16.12 | | 150.0 | |
| 10543- AAB | IEEE 802,11ac WiFi (40MHz, MCS9, 99pc duly cycle) | X | 5.47 | 66.74 | 16.29 | 0.00 | 150.0 | ±9.6 % |
| 11.12 | sopo acij sjelaj | Y | 5.30 | 66.21 | 15.95 | | 150.0 | |
| | | Z | 5.27 | 66.76 | 16.14 | | 150.0 | |
| 10544- AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle) | X | 5.52 | 66.77 | 16.19 | 0.00 | 150,0 | ± 9.6 % |
| | | Y | 5.38 | 66.20 | 15.82 | | 150.0 | |
| | | 2 | 5.37 | 66.80 | 16.04 | | 150.0 | |
| 10545- AAB | IEEE 802,11ac WiFi (80MHz, MCS1, 99pc duty cycle) | X | 5.72 | 67,14 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.58 | 66.63 | 15.99 | | 150.0 | |
| | | Z | 5.53 | 67.12 | 16.15 | | 150.0 | |
| 10546- AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle) | X | 5.61 | 67.04 | 16,28 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.45 | 66.44 | 15.91 | | 150.0 | |
| | Leaving Control of the Control of th | Z | 5.43 | 66.99 | 16.10 | | 150.0 | |
| 10547- AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle) | X | 5.70 | 67.12 | 16.31 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 5.53 | 66.49 | 15.92 | | 150.0 | |
| | A - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | Z | 5.50 | 67.02 | 16.11 | | 150.0 | |
| 10548- AAB | IEEE 802.11ac WiFI (80MHz, MCS4, 99pc duty cycle) | X | 5.93 | 67.96 | 16,70 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 5.82 | 67.53 | 16.41 | | 150.0 | |
| | | Z | 5.64 | 67.63 | 16.39 | | 150.0 | |
| 10550- AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle) | X | 5.63 | 67.00 | 16.27 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 5.47 | 66.43 | 15.91 | | 150.0 | |
| | | Z | 5.45 | 67.00 | 16.12 | | 150.0 | |
| 10551- AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle) | X | 5.65 | 67.07 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.48 | 66.48 | 15,89 | | 150.0 | |
| | | Z | 5.46 | 67.04 | 16.10 | | 150.0 | |
| 10552- AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle) | X | 5.55 | 66.86 | 16.18 | 0.00 | 150.0 | ±9.6 % |
| 7 10 110 | 1201311 - 1211 | Y | 5.39 | 66.26 | 15.80 | | 150.0 | |
| | | Z | 5.39 | 66.89 | 16.04 | | 150.0 | |
| 10553- AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle) | X | 5.65 | 66.91 | 16,22 | 0.00 | 150.0 | ±9.6 % |
| | | Ÿ | 5.48 | 66.32 | 15.86 | | 150.0 | |
| | A To the second seco | Z | 5.47 | 66.91 | 16.07 | | 150.0 | |
| 10554- AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | × | 5.92 | 67.13 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.78 | 66.58 | 15.93 | | 150.0 | |
| | | Z | 5.77 | 67.13 | 16.11 | 1 | 150.0 | - |
| 10555- AAC | IEEE 802,11ac WiFi (160MHz, MCS1, 99pc duty cycle) | Х | 6.06 | 67.44 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
| | The second second | Y | 5,92 | 66.89 | 16.06 | | 150.0 | |
| | | Z | 5.88 | 67.38 | 16.21 | | 150.0 | |
| 10556- AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | × | 6.07 | 67.47 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.94 | 66.94 | 16.07 | | 150.0 | |
| | | Z | 5.90 | 67.42 | 16,23 | | 150.0 | |
| 10557- AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 6.06 | 67.43 | 16.40 | 0.00 | 150.0 | ±.9.6 % |
| | | Y | 5.91 | 66.85 | 16.05 | | 150.0 | |
| | | | | | | | | |

Certificate No: EX3-3938_Oct18

Page 32 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 38 of 44

EX3DV4- SN:3938

October 24, 2018

| 10558- AAC | IEEE 802,11ac WIFI (160MHz, MCS4, 99pc duty cycle) | × | 6.11 | 67.60 | 16.50 | 0.00 | 150.0 | ± 9.6 % |
|---------------|--|-----|--------|--------|-------|------|-------|---------|
| | | Y | 5.96 | 67.02 | 16.15 | | 150.0 | |
| | | 2 | 5.91 | 67.50 | 16.30 | | 150.0 | |
| 10560- AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle) | X | 6.11 | 67.46 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
| 7 -07 10 11 | | Y | 5.95 | 66.87 | 16.11 | | 150.0 | |
| | | Z | 5.92 | 67.38 | 16,28 | 1 | 150.0 | |
| 10561- AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle) | X | 6.02 | 67,40 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.87 | 66.84 | 16,13 | | 150.0 | |
| | | Z | 5.84 | 67.33 | 16.29 | | 150.0 | |
| 10562- AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle) | X | 6.16 | 67.82 | 16.69 | 0.00 | 150.0 | ±9.6 % |
| | | Y | 6.01 | 67.26 | 16.35 | 1,- | 150.0 | |
| | A TRANSPORT OF THE PARTY OF THE | Z | 5.93 | 67.63 | 16.44 | | 150.0 | 1 44 |
| 10563- AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle) | X | 6.47 | 68.29 | 16.86 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 6.34 | 67.82 | 16.58 | | 150.0 | |
| | | Z | 6.09 | 67.70 | 16.43 | | 150.0 | |
| 10564- AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle) | × | 4.97 | 66.98 | 16.53 | 0.46 | 150.0 | ± 9.6 % |
| | | Y | 4.81 | 66.46 | 16.14 | | 150.0 | |
| | A A CONTRACTOR OF THE PARTY OF | Z | 4.78 | 67.02 | 16.32 | | 150.0 | |
| 10565- AAA | IEEE 802,11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle) | X | 5.23 | 67.46 | 16.85 | 0.46 | 150.0 | ±9.6 % |
| | and a second | Y | 5.05 | 66.93 | 16.47 | | 150.0 | |
| | | Z | 5.01 | 67.49 | 16.66 | | 150.0 | |
| 10566- AAA | IEEE 802:11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps. 99pc duty cycle) | X | 5.06 | 67.34 | 16.69 | 0.46 | 150.0 | ± 9.6 % |
| | | Y | 4.88 | 66.77 | 16.28 | | 150.0 | |
| | A STATE OF THE STA | Z | 4.84 | 67.32 | 16.46 | -10 | 150.0 | |
| 10567- AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle) | X | 5,09 | 67,74 | 17.04 | 0.46 | 150.0 | ±9.6 % |
| | | Y | 4.91 | 67.15 | 16.63 | | 150.0 | |
| | Control of the Contro | Z | 4.89 | 67.80 | 16.87 | | 150.0 | |
| 10568- AAA | OFDM, 36 Mbps, 99pc duty cycle) | X | 4.97 | 67,07 | 16,45 | 0.46 | 150.0 | ±9,6 % |
| | | Y | 4.80 | 66.54 | 16.05 | | 150.0 | |
| - | I The second sec | - 2 | 4.74 | 67.03 | 16,19 | | 150.0 | |
| 10569- AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle) | X. | 5.03 | 67.78 | 17.08 | 0.46 | 150.0 | ±9.6 % |
| | | Y | 4.86 | 67,22 | 16.68 | | 150.0 | |
| | | Z | 4.85 | 67.93 | 16.95 | | 150.0 | |
| 10570- AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle) | .X. | 5.08 | 67.62 | 17.01 | 0.46 | 150.0 | ±9.6 % |
| | | Υ | 4.90 | 67.08 | 16.62 | | 150.0 | |
| 10021 | IFFF GOD AND AND AND AND AND AND AND AND AND AN | Z | 4.88 | 67.73 | 16.86 | | 150.0 | |
| 10571- AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) | X | 1.32 | 66.77 | 17.12 | 0.46 | 130.0 | ± 9,6 % |
| | | Y | 1.14 | 64.23 | 15.06 | | 130.0 | |
| .0570 | | Z | 1.17 | 65.28 | 15.86 | | 130.0 | - 17 |
| 10572- AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) | X | 1.36 | 67.60 | 17,59 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 1.16 | 64.80 | 15.39 | | 130.0 | |
| 10070 | TEET DON A CONTROL TO THE | Z | 1.19 | 65.98 | 16.28 | | 130.0 | |
| 10573- AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) | X | 100.00 | 150.25 | 40,35 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 1.94 | 81.80 | 20.21 | | 130.0 | |
| 10574 | IEEE OOG ALL MORE - A PA | Z | 5.37 | 101.40 | 27.76 | | 130.0 | 1 |
| 10574- AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) | X | 1.86 | 77,53 | 22.17 | 0.46 | 130.0 | ± 9.6 % |
| | | Υ | 1.28 | 70.31 | 17.98 | | 130.0 | |
| | | 2 | 1.45 | 73.83 | 20.12 | | | |

Certificate No: EX3-3938_Oct18

Page 33 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 39 of 44

EX3DV4- SN:3938

October 24, 2018

| 10575- AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 90pc duty cycle) | X | 4.77 | 66.82 | 16.63 | 0.46 | 130.0 | ±9.6 % |
|---------------|---|---|------|-------|-------|------|-------|---------|
| | | Y | 4.62 | 66.32 | 16.23 | | 130.0 | |
| | | 2 | 4.56 | 66.75 | 16.29 | | 130.0 | |
| 10576- AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle) | X | 4.80 | 66.99 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.64 | 66.47 | 16.29 | | 130.0 | |
| | | Z | 4.59 | 66.94 | 16.38 | | 130.0 | |
| 10577- AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle) | X | 5,03 | 67.31 | 16.86 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 4,85 | 66.78 | 16.47 | | 130.0 | |
| | and the second second | Z | 4.78 | 67.21 | 16.54 | | 130.0 | |
| 10578- AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle) | X | 4.93 | 67.50 | 16.98 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.75 | 66.94 | 16.57 | | 130.0 | |
| | A Transaction and a second | Z | 4.69 | 67.42 | 16.68 | - | 130.0 | |
| 10579- AAA | IEEE 802,11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle) | X | 4.69 | 66.84 | 16.33 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 4.52 | 66.24 | 15.89 | | 130.0 | |
| | | Z | 4.43 | 66.57 | 15.89 | | 130.0 | |
| 10580- AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle) | X | 4.74 | 66.81 | 16.32 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.57 | 66,26 | 15.90 | | 130.0 | |
| | | Z | 4.47 | 66.59 | 15.90 | | 130.0 | |
| 10581- AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle) | × | 4.83 | 67.59 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.65 | 66.98 | 16.51 | | 130.0 | |
| | | Z | 4.59 | 67.47 | 16.62 | | 130.0 | |
| 10582- AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle) | X | 4.64 | 66.58 | 16.12 | 0.46 | 130.0 | ±.9.6 % |
| | | Y | 4.47 | 66.00 | 15.67 | | 130,0 | |
| | | Z | 4.36 | 66.28 | 15.65 | | 130.0 | |
| 10583⊦ AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) | X | 4.77 | 66.82 | 16.63 | 0.46 | 130.0 | ±9.6 % |
| 24.00 | | Y | 4.62 | 66.32 | 16.23 | | 130.0 | |
| | | Z | 4.56 | 66.75 | 16.29 | | 130.0 | |
| 10584- AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle) | X | 4.80 | 66,99 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.64 | 66.47 | 16.29 | | 130.0 | |
| | | Z | 4.59 | 66.94 | 16.38 | | 130.0 | |
| 10585- AAB | IEEE 802,11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle) | × | 5.03 | 67.31 | 16.86 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 4.85 | 66.78 | 16.47 | | 130.0 | - |
| | | Z | 4.78 | 67.21 | 16.54 | | 130.0 | |
| 10586- AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle) | X | 4.93 | 67,50 | 16.98 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 4.75 | 66.94 | 16.57 | | 130.0 | |
| | | Z | 4.69 | 67.42 | 16.68 | | 130.0 | |
| 10587- AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle) | × | 4.69 | 66.84 | 16,33 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 4.52 | 66.24 | 15.89 | | 130.0 | |
| | | Z | 4.43 | 66.57 | 15.89 | | 130,0 | - |
| 10588- AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle) | X | 4.74 | 66.81 | 16,32 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 4.57 | 66.26 | 15.90 | | 130.0 | |
| | | Z | 4.47 | 66,59 | 15.90 | | 130.0 | |
| 10589- AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle) | × | 4.83 | 67,59 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
| A.F. | | Y | 4.65 | 66.98 | 16.51 | | 130.0 | |
| | Transfer of the second second | Z | 4,59 | 67.47 | 16.62 | | 130.0 | V |
| 10590- AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle) | X | 4.64 | 66.58 | 16.12 | 0.46 | 130.0 | ± 9.6 9 |
| - | | Y | 4.47 | 66,00 | 15.67 | | 130.0 | |
| | | Z | 4,36 | 66.28 | 15.65 | | 130.0 | |

Certificate No: EX3-3938_Oct18

Page 34 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 40 of 44

EX3DV4- SN:3938

October 24, 2018

| 10591- AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.92 | 66.87 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|---------------|--|------|------|----------------|-------|------|-------|---------|
| | | Y | 4.77 | 66.38 | 16.34 | | 130.0 | |
| | Law York Law Street | Z | 4.71 | 66.82 | 16.40 | | 130.0 | |
| 10592- AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | × | 5.09 | 67.22 | 16.84 | 0.46 | 130.0 | ±9.6% |
| | | Y | 4.93 | 66.72 | 16.47 | 1 | 130.0 | |
| - Simon | | Z | 4.86 | 67.15 | 16.53 | | 130.0 | |
| 10593- AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | × | 5.02 | 67.17 | 16.74 | 0,46 | 130.0 | ± 9,6 % |
| | meet, cope and cycle) | Y | 4.85 | 66.64 | 16:36 | | 130.0 | - |
| | | 2 | 4.77 | 67.04 | 16.40 | | 130.0 | - |
| 10594- AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 5.07 | 67.32 | 16.89 | 0.46 | 130.0 | ±9.6% |
| | | Y | 4.90 | 66.80 | 16.51 | | 130.0 | |
| | | Z | 4.83 | 67.23 | 16.57 | | 130.0 | _ |
| 10595- | IEEE 802.11n (HT Mixed, 20MHz. | X | 5.05 | 67.29 | 16.79 | 0.46 | 130.0 | ±9.69 |
| AAB | MCS4, 90pc duty cycle) | Y | 4.87 | 66.75 | 10000 | 0.46 | 1200 | ± 9.0 % |
| | | Z | 4.80 | | 16.40 | _ | 130.0 | |
| 10596- | IEEE 802.11n (HT Mixed, 20MHz. | X | 4.98 | 67.17 67.29 | 16.46 | D 40 | 130.0 | 70.55 |
| AAB | MCS5, 90pc duty cycle) | | 11 | 100000 | 16.80 | 0.46 | 130,0 | ±9,6 % |
| - | | Y | 4.81 | 66.75 | 16,40 | | 130.0 | |
| 10597- | IEEE 802.11n (HT Mixed, 20MHz. | Z | 4.73 | 67.16 | 16.45 | | 130.0 | |
| AAB | MCS6, 90pc duty cycle) | 1.72 | 4.94 | 67.23 | 16.70 | 0.46 | 130.0 | ±9.6 % |
| _ | | Y | 4.76 | 56.66 | 16.29 | - | 130.0 | |
| 10598- | JEEF ORD ALL DITTE A POST | Z | 4.68 | 67.05 | 16.33 | | 130.0 | |
| AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.92 | 67.49 | 16.98 | 0.46 | 130.0 | ±9,6 % |
| | | Y | 4.74 | 66.90 | 16.55 | | 130.0 | |
| 1.000 | | Z | 4.68 | 67,34 | 16.63 | | 130.0 | |
| 10599- AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.58 | 67.43 | 16.88 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.44 | 66,96 | 16.56 | | 130.0 | |
| | | 2 | 5.34 | 67.25 | 16.55 | | 130.0 | |
| 10600- AAB | IEEE 802,11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | × | 5.74 | 67.88 | 17.07 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.60 | 67.47 | 16.79 | | 130.0 | |
| | | Z | 5.43 | 67.51 | 16.64 | | 130.0 | |
| 10601- AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.61 | 67.61 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.48 | 67.17 | 16.66 | | 130.0 | |
| | | Z | 5.35 | 67.37 | 16.60 | | 130.0 | |
| 10602- AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.70 | 67.58 | 16.86 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.56 | 67.17 | 16.58 | | 130.0 | |
| | | Z | 5.45 | 67.40 | 16.52 | | 130.0 | |
| 10603- AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.80 | 67.93 | 17.16 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.65 | 67,49 | 16.87 | | 130.0 | |
| | The state of the s | Z | 5.52 | 67.69 | 16.81 | | 130.0 | |
| 10604- | IEEE 802.11n (HT Mixed, 40MHz, | X | 5.58 | 67.37 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
| AAB | MCS5, 90pc duty cycle) | Y | 5.44 | 66.92 | 16.57 | 5.10 | 130.0 | 2 3.0 % |
| | The second secon | Z | 5.37 | 67.27 | 16.59 | | 130.0 | |
| 10605- AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.68 | 67.64 | 17.00 | 0.46 | 130,0 | ±9.6 % |
| | | Y | 5.56 | 67:28 | 16.75 | | 130.0 | |
| 2.12 | PRODUCTION OF THE PROPERTY OF | Z | 5.43 | 67.44 | 16.66 | | | - |
| 10606- AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.46 | 67.16 | 16.64 | 0.46 | 130.0 | ± 9.6 % |
| | a forei | Y | 5.33 | 66.69 | 40.00 | _ | 100.0 | |
| | | 2 | 5.20 | 66.87 | 16.32 | | 130.0 | |
| | | | | | | | | |

Certificate No: EX3-3938_Oct18

Page 35 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 41 of 44

EX3DV4- SN:3938

October 24, 2018

| 10607- AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | × | 4.76 | 66.21 | 16.35 | 0.46 | 130.0 | ± 9.6 % |
|---------------|--|---|------|-------|-------|------|-------|---------|
| | | Y | 4.60 | 65.66 | 15.94 | | 130.0 | |
| | The second second second | 2 | 4.55 | 66.17 | 16.05 | | 130.0 | |
| 10608- AAB | JEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | × | 4.97 | 66.64 | 16.51 | 0.46 | 130.0 | ±9.6 % |
| | 2000 300) 57007 | Y | 4.79 | 66.07 | 16.11 | | 130.0 | |
| | | Z | 4.73 | 66,56 | 16.21 | | 130.0 | |
| 10609- AAB | JEEE 802,11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.86 | 66.52 | 16.38 | 0.46 | 130.0 | ±9.6 % |
| | Separation of section | Y | 4.68 | 65.92 | 15.94 | | 130.0 | |
| | | Z | 4.62 | 66.40 | 16.04 | | 130.0 | |
| 10610- AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.91 | 66.68 | 16.54 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 4.73 | 66.08 | 16.11 | | 130.0 | |
| | | 2 | 4.67 | 66.58 | 16.22 | | 130.0 | |
| 10611- AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.83 | 66.50 | 16.39 | 0.46 | 130.0 | ±9.6 % |
| 10.10 | 1 | Y | 4.65 | 65.89 | 15.96 | | 130.0 | |
| | | Z | 4.59 | 66.36 | 16.05 | | 130.0 | |
| 10612- AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.85 | 66.66 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.66 | 66.04 | 16.00 | | 130.0 | |
| | | Z | 4.59 | 66.49 | 16.08 | | 130.0 | |
| 10613- AAB | IEEE 802,11ac WiFi (20MHz, MCS6, 90pc duty cycle) | × | 4.86 | 66.57 | 16.33 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 4.67 | 65.94 | 15.89 | | 130.0 | |
| | | Z | 4.59 | 66.36 | 15.95 | | 130.0 | |
| 10614- AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | × | 4.80 | 66.77 | 16.57 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 4.60 | 66.11 | 16.11 | | 130.0 | |
| | | 2 | 4.55 | 66,63 | 16.24 | | 130.0 | |
| 10615- AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.83 | 66.31 | 16.17 | 0.46 | 130.0 | ± 9.6 % |
| | 3393 333 3753 | Y | 4.65 | 65.72 | 15.74 | | 130.0 | |
| | | Z | 4.57 | 66.14 | 15.79 | | 130.0 | |
| 10616- AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.40 | 66.72 | 16.51 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 5,25 | 66.20 | 16.17 | - | 130.0 | |
| - 5 - | | Z | 5.18 | 66.58 | 16.21 | | 130.0 | |
| 10617- AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | × | 5.46 | 66.82 | 16,52 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 5.32 | 66.35 | 16.21 | | 130.0 | |
| | | Z | 5.23 | 66.70 | 16.24 | | 130.0 | |
| 10618- AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.36 | 66.91 | 16.59 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 5.20 | 66.37 | 16.23 | | 130.0 | |
| | | Z | 5.13 | 66.77 | 16:30 | | 130.0 | |
| 10619- AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | × | 5.38 | 66.73 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.23 | 66.21 | 16.09 | | 130.0 | |
| | | Z | 5.14 | 66.53 | 16.10 | | 130.0 | 1 |
| 10620- AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | × | 5.49 | 66.81 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.33 | 66,26 | 16.17 | | 130.0 | |
| | | Z | 5.23 | 66.56 | 16.17 | | 130.0 | 1 |
| 10621- AAB | 1EEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | × | 5.47 | 66,89 | 16,68 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.31 | 66.35 | 16.33 | | 130.0 | |
| 2.04 | A Transport Control | Z | 5.24 | 66,76 | 16,40 | | 130.0 | - |
| 10622- AAB | IEEE 802,11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.47 | 67.00 | 16.72 | 0.46 | 130.0 | ±9.6 9 |
| | | Y | 5.33 | 66.52 | 16.41 | | 130.0 | |
| | | Z | 5.25 | 66.89 | 16.45 | | 130.0 | |

Certificate No: EX3-3938_Oct18

Page 36 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 42 of 44

EX3DV4- SN:3938

October 24, 2018

| 10623- AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle) | × | 5.36 | 66.59 | 16.41 | 0.46 | 130.0 | ± 9.6 % |
|---------------|--|---|------|-------|-------|------|-------|---------|
| | | Y | 5.20 | 66.04 | 16.05 | | 130.0 | |
| | A STATE OF THE STA | 2 | 5.12 | 66.39 | 16.07 | | 130.0 | |
| 10624- AAB | 1EEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle) | x | 5,54 | 66.74 | 16.54 | 0.46 | 130.0 | ± 9.6 9 |
| | | Y | 5.40 | 66.26 | 16.22 | | 130.0 | |
| | | Z | 5.31 | 66.59 | 16.23 | | 130.0 | |
| 10625- AAB | IEEE 802,11ac WiFi (40MHz, MCS9, 90pc duty cycle) | X | 5,91 | 67,68 | 17.05 | 0.46 | 130.0 | ± 9.6 % |
| | 1000 | Y | 5.81 | 67.35 | 16.82 | | 130.0 | |
| | The state of the s | Z | 5.60 | 67.33 | 16.65 | - | 130.0 | |
| 10626- AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle) | X | 5.66 | 66.76 | 16.44 | 0.46 | 130.0 | ±9.6% |
| | The state of the s | Y | 5.54 | 66.25 | 16.12 | | 130.0 | |
| | | Z | 5.47 | 66.64 | 16.16 | | 130.0 | |
| 10627- AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle) | × | 5.90 | 67.26 | 16.64 | 0.46 | 130.0 | ± 9.6 9 |
| | | Y | 5.79 | 66.84 | 16.38 | | 130.0 | |
| | Laker Francisco Time | Z | 5.67 | 67.08 | 16.34 | | 130.0 | |
| 10628- AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle) | X | 5.73 | 66.91 | 16.42 | 0.46 | 130.0 | ±9,69 |
| | | Y | 5.58 | 66.38 | 16.08 | | 130.0 | |
| | A CONTRACTOR OF THE PARTY OF TH | Z | 5.49 | 66.66 | 16.06 | | 130.0 | |
| 10629- AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle) | X | 5.81 | 66.97 | 16.43 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 5.67 | 66.48 | 16.13 | | 130.0 | |
| | Later to the second sec | Z | 5.56 | 66,69 | 16.07 | | 130.0 | |
| 10630- AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle) | × | 6.26 | 68.50 | 17.19 | 0.46 | 130.0 | ± 9,6 % |
| | | Y | 6.18 | 68.17 | 16.96 | | 130.0 | |
| | Control of the control of | Z | 5.83 | 67,70 | 16.58 | | 130.0 | |
| 10631- AAB | IEEE 802,11ac WiFi (80MHz, MCS5, 90pc duty cycle) | Х | 6,19 | 68,38 | 17.32 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.03 | 67.83 | 16.99 | | 130.0 | |
| | | 2 | 5.86 | 67.92 | 16.89 | | 130.0 | |
| 10632- AAB | IEEE 802 11ac WiFi (80MHz, MCS6, 90pc duty cycle) | X | 5.89 | 67,37 | 16.83 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 5.75 | 66.88 | 16.53 | | 130.0 | |
| | | Z | 5.67 | 67.23 | 16.57 | | 130.0 | |
| 10633- AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle) | X | 5.81 | 67.14 | 16,55 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 5.64 | 66.53 | 16.18 | | 130.0 | |
| | | Z | 5.57 | 66.89 | 16.21 | | 130.0 | |
| 10634- AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle) | × | 5.79 | 67.15 | 16,62 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.63 | 66.56 | 16.26 | | 130.0 | |
| 10005 | IEEE coo to the | Z | 5.56 | 66.95 | 16.31 | | 130.0 | |
| 10635- AAB | IEEE 802,11ac WiFi (80MHz, MCS9, 90pc duty cycle) | × | 5.68 | 66.48 | 16.03 | 0.46 | 130.0 | ±9.6 % |
| _ | | Y | 5.52 | 65.92 | 15.67 | | 130.0 | |
| Anana | JEEF OOD 14 JUNE | Z | 5,41 | 66.16 | 15.62 | | 130.0 | |
| 10636- AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.07 | 67.13 | 16.52 | 0.46 | 130.0 | ±9.6 % |
| _ | | Y | 5.95 | 66.65 | 16.23 | | 130.0 | |
| 10637- | JEEE DOD 44 - MARTIN | Z | 5.87 | 66.97 | 16.23 | | 130.0 | |
| 10637- AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.23 | 67.50 | 16.68 | 0.46 | 130,0 | ± 9.6 % |
| _ | | Y | 6.11 | 67.04 | 16.40 | | 130.0 | |
| 10638- | ICEC 000 44 - MEET COOK III | Z | 6.00 | 67,28 | 16.36 | | 130.0 | |
| AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | × | 6.23 | 67.47 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.11 | 67.00 | 16.36 | 1 | 130.0 | |
| | | 2 | 6.01 | 67.28 | 16.34 | | 130.0 | |

Certificate No: EX3-3938_Oct18

Page 37 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 43 of 44

EX3DV4-SN:3938

October 24, 2018

| 10639- AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle) | X | 6,23 | 67.49 | 16.70 | 0.46 | 130.0 | ±9.6 % |
|---------------|--|---------|--------------|----------------|----------------|-------|-------|-----------|
| | | Y | 6.09 | 66.97 | 16.39 | | 130.0 | |
| | A ANTONIO DE PROPERTO DE LA CONTRACTOR DE | Z | 6.00 | 67.25 | 16.37 | | 130.0 | |
| 10640- AAC | IEEE 802,11ac WiFi (160MHz, MCS4, 90pc duty cycle) | × | 6.25 | 67.53 | 16.67 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 6.11 | 67.01 | 16.35 | | 130.0 | |
| | La Andrea Control Control of | Z | 5.99 | 67.21 | 16.29 | | 130.0 | |
| 10641- AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle) | X | 6.25 | 67.31 | 16.57 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.13 | 66.85 | 16.30 | | 130.0 | |
| | | Z | 6.03 | 67.11 | 16.26 | | 130.0 | |
| 10642- AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duly cycle) | X | 6.33 | 67.65 | 16.91 | 0.46 | 130.0 | ±9.6% |
| | | Y | 6.18 | 67.13 | 16.60 | | 130.0 | |
| | | Z | 6.10 | 67.47 | 16.62 | | 130.0 | |
| 10643- AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle) | X | 6.15 | 67.31 | 16.65 | 0.46 | 130.0 | ±9.6 % |
| | | Y | 6.02 | 66.82 | 16.34 | | 130.0 | |
| | | Z | 5.91 | 67.06 | 16.30 | | 130.0 | |
| 10644- AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle) | X | 6.35 | 67.93 | 16.98 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.21 | 67.40 | 16.65 | | 130.0 | |
| - | | Z | 6.05 | 67.49 | 16.53 | | 130.0 | |
| 10645- AAC | IEEE 802,11ac WiFi (160MHz, MCS9, 90pc duty cycle) | X | 6.71 | 68.51 | 17.21 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.68 | 68.36 | 17.09 | | 130.0 | |
| | | Z | 6.25 | 67.70 | 16.59 | | 130.0 | |
| 10646- AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7) | X | 86,17 | 140.32 | 45,40 | 9.30 | 60.0 | ± 9.6 % |
| | - Andrew Court of the Court of | Y | 39.04 | 122.44 | 40.63 | | 60.0 | |
| | A COURT OF THE RESIDENCE OF THE PARTY OF THE | Z | 18.19 | 104.43 | 33.83 | | 60.0 | |
| 10647- AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 80.45 | 139.77 | 45.45 | 9.30 | 60.0 | ±9.6 % |
| | A T T T T T T T T T T T T T T T T T T T | Y | 36.72 | 121.94 | 40.66 | | 60.0 | |
| | | Z | 16.41 | 102.98 | 33.52 | | 60.0 | |
| 10648- AAA | CDMA2000 (1x Advanced) | X | 0.87 | 66,51 | 13.20 | 0.00 | 150.0 | ± 9.6 % |
| | | Υ | 0.58 | 61.72 | 9.15 | | 150.0 | |
| | | Z | 0.69 | 64.69 | 11.24 | | 150.0 | 1 2 2 2 2 |
| 10652- AAD | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | X | 4.31 | 69.00 | 17.79 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 3.89 | 67.35 | 16.71 | | 80.0 | |
| 10653- | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, | Z X. | 3.64 4.72 | 67.10 67.91 | 16.29 17.64 | 2.23 | 80.0 | ±9.6 % |
| AAD | Clipping 44%) | Y | 4.40 | 66.72 | 16.87 | | 80.0 | |
| | | Z | 4.16 | 66.48 | 16.48 | | 80.0 | |
| 10654- AAD | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | X. | 4.64 | 67.52 | 17,60 | 2.23 | 80.0 | ±9.6 % |
| TO TO | Supplied at all | Y | 4.36 | 66.39 | 16.88 | | 80.0 | |
| | | 2 | 4.14 | 66.16 | 16.50 | | 80.0 | |
| 10655- AAE | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | X | 4.69 | 67.54 | 17.64 | 2.23 | 80.0 | ±9.6 % |
| | - Suppose 1 state | Υ | 4.42 | 66.40 | 16.92 | | 80.0 | |
| | V | Z | 4.19 | 66.14 | 16.53 | | 80.0 | |
| 10658- AAA | Pulse Waveform (200Hz, 10%) | X | 100.00 | 116.89 | 30.15 | 10.00 | 50.0 | ±9.6 % |
| | | Y | 27.27 | 97.34 | 24.81 | | 50.0 | |
| - | | Z | 5.41 | 73.00 | 14.99 | | 50.0 | |
| 10659- AAA | Pulse Waveform (200Hz, 20%) | X | 100.00 | 114.06 | 27.78 | 6.99 | 60,0 | ± 9.6 % |
| | | Y | 100.00 | 111.99 | 26.70 | _ | 60.0 | |
| | | Z | 5.58 | 74.98 | 14.50 | | 60.0 | |

Certificate No: EX3-3938_Oct18

Page 38 of 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.

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

SGS Taiwan Ltd.



Rev: 01

Page: 44 of 44

EX3DV4-SN:3938

October 24, 2018

| 10660- AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 113.57 | 26.20 | 3.98 | 80.0 | ± 9.6 % |
|---------------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| | | Y | 100.00 | 108.48 | 23.71 | | 80.0 | |
| | | Z | 17.55 | 86.88 | 16.64 | | 80.0 | |
| 10661- AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 116.76 | 26.28 | 2.22 | 100.0 | ± 9.6 % |
| | | Y | 100.00 | 105.43 | 21.11 | | 100.0 | |
| | | Z | 100.00 | 100.82 | 18.62 | | 100.0 | |
| 10662- AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 127.89 | 28.96 | 0.97 | 120.0 | ± 9.6 % |
| | | Y | 3.43 | 74.94 | 10.68 | | 120.0 | |
| Vice part in | | Z | 100.00 | 98.67 | 16.42 | | 120.0 | |
| 10670- AAA | Bluetooth Low Energy | × | 100.00 | 117.22 | 26.83 | 2.19 | 100.0 | ± 9.6 % |
| | | Y | 100.00 | 107.88 | 22.47 | | 100.0 | |
| | | Z | 100.00 | 104.58 | 20.49 | | 100.0 | |

Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the

Certificate No: EX3-3938_Oct18

Page 39 of 39

- 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.