

## FCC PART 15 B TEST REPORT

For

# ENSAMBLADORA Y DISTRIBUIDORA DE TECNOLOGIA S.A.

OFICINA 440, EDIFICIO TRADE BUILDING, AV. JOAQUIN ORRANTIA Y LEOPOLDO BENITEZ, GUAYAQUIL, ECUADOR

FCC ID: 2AD9BQA4928

Report Type: Product Type: Original Report **3G Smart Phone** ean. Lau. Test Engineer: Dean Liu Report Number: RDG150212003-00D **Report Date: 2015-03-25** Sola Hugof Sula Huang **Reviewed By:** RF Leader **Test Laboratory:** Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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#### **GENERAL INFORMATION**

#### **Product Description for Equipment Under Test (EUT)**

The ENSAMBLADORA Y DISTRIBUIDORA DE TECNOLOGIA S.A.'s product, model number: QA4928 (FCC ID:2AD9BQA4928) or (the "EUT") in this report was a 3G Smart Phone, which was measured approximately: 12.4 cm (L) x 6.4 cm (W) x 0.8 cm (H), rated input voltage: DC 3.7V rechargeable Li-ion battery or DC5V charging from adapter.

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Adapter information: mondo Model: TPA-200510VU Input: AC100-240V, 50/60Hz Output: DC5.0V, 1000 mA

Note: The series product, model QA4928, Athos, B4022 are electrically identical, the difference between them is just the model name, we selected QA4928 for fully testing, the details was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 150212003 (Assigned by BACL, Dongguan). The EUT was received on 2015-03-13

#### **Objective**

This test report is prepared on behalf of *ENSAMBLADORA Y DISTRIBUIDORA DE TECNOLOGIA S.A.* in accordance with Part 2, Subpart J, and Part 15-Subparts A and B of the Federal Communications Commission's rules.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15 B Class B.

#### Related Submittal(s)/Grant(s)

FCC Part 15C DSS submissions with FCC ID: 2AD9BQA4928. FCC Part 15C DTS submissions with FCC ID: 2AD9BQA4928. FCC Part 22H, 24E PCE submissions with FCC ID: 2AD9BQA4928.

#### **Test Methodology**

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan).

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#### **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

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Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 06, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

#### **SYSTEM TEST CONFIGURATION**

#### **Description of Test Configuration**

The system was configured for testing in a typical fashion (as normally used by a typical user).

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#### **EUT Exercise Software**

The software "winthrax.exe" was used during test.

#### **Equipment Modifications**

No modification was made to the EUT tested.

#### **Local Support Equipment List and Details**

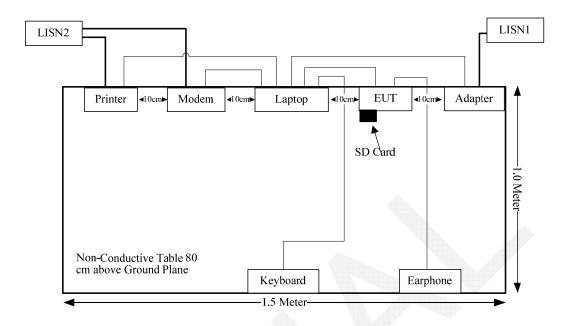
| Manufacturer | Description | Model    | Serial Number        |
|--------------|-------------|----------|----------------------|
| НР           | Printer     | C3941A   | JPTVOB2337           |
| SAST         | Modem       | AEM-2100 | 0293                 |
| DELL         | Keyboard    | L100     | CNORH656658907BL05DC |
| DELL         | Laptop      | PP11L    | N/A                  |
| SAMSUNG      | TF Card     | 4 GB     | N/A                  |
| N/A          | Earphone    | N/A      | N/A                  |

#### **Support Cable List and Details**

| Cable Description | Shielding<br>Type | Ferrite Core | Length (m) | From Port               | То       |
|-------------------|-------------------|--------------|------------|-------------------------|----------|
| Serial Cable      | Yes               | No           | 1.2        | Serial Port of Laptop   | Modem    |
| Parallel Cable    | Yes               | No           | 1.2        | Parallel Port of Laptop | Printer  |
| Keyboard Cable    | Yes               | No           | 1.8        | USB Port of Laptop      | Keyboard |
| USB Cable         | Yes               | No           | 1.0        | USB Port of Laptop      | EUT      |
| Earphone Cable    | No                | No           | 1.2        | Earphone port of EUT    | Earphone |

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### **Configuration of Test Setup**



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## SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Results    |
|-----------|---------------------|------------|
| §15.107   | Conducted Emissions | Compliance |
| §15.109   | Radiated Emissions  | Compliance |

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#### FCC§15.107 - CONDUCTED EMISSIONS

#### **Measurement Uncertainty**

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are Receiver, cable loss, and LISN.

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If  $U_{\text{lab}}$  is less than or equal to  $U_{\text{cispr}}$  of Table 1, then:

- -compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- -non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If  $U_{\text{lab}}$  is greater than  $U_{\text{cispr}}$  of Table 1, then:

-compliance is deemed to occur if no measured disturbance level, increased by  $(U_{\text{lab}} - U_{\text{cispr}})$ , exceeds the disturbance limit:

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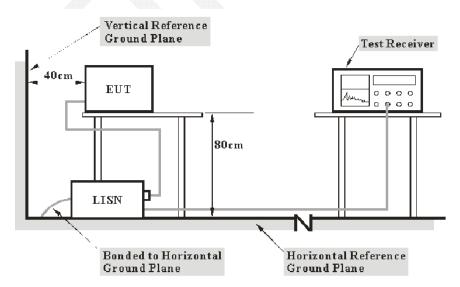
-non - compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of  $U_{\text{cispr}}$ 

| Measurement   | $U_{ m cispr}$ |
|---|----------------|
| Conducted disturbance at mains port using AMN (150 kHz to 30 MHz) | 3.4 dB         |

#### **EUT Setup**



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

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The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter was connected to a 120V/60Hz AC power source.

#### **EMI Test Receiver Setup**

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range  | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz  |

#### **Test Equipment List and Details**

| Manufacturer | Description           | Model   | Serial Number | Calibration<br>Date | Calibration<br>Due Date |  |  |  |
|--------------|-----------------------|---------|---------------|---------------------|-------------------------|--|--|--|
| R&S          | EMI Test Receiver     | ESCS 30 | 830245/006    | 2014-11-20          | 2015-11-20              |  |  |  |
| R&S          | L.I.S.N               | ESH3-Z5 | 843331/015    | N/A                 | N/A                     |  |  |  |
| R&S          | Two-line<br>V-network | ENV 216 | 3560.6550.12  | 2014-12-11          | 2015-12-11              |  |  |  |
| R&S          | Test Software         | EMC32   | Version8.53.0 | N/A                 | N/A                     |  |  |  |

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### **Test Procedure**

During the conducted emission test, the adapter of laptop was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

#### **Corrected Amplitude & Margin Calculation**

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

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Herein,

V<sub>C</sub>: corrected voltage amplitude

V<sub>R</sub>: reading voltage amplitude

A<sub>c</sub>: attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

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Margin = Limit – Corrected Amplitude

#### **Test Results Summary**

According to the recorded data in following table, the EUT complied with the FCC Part 15 B Class B, with the worst margin reading of:

#### 9.80 dB at 0.317235 MHz in the Neutral conducted mode

#### **Test Data**

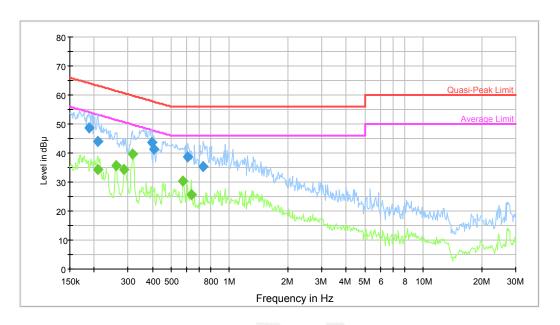
#### **Environmental Conditions**

| Temperature:       | 20.3 °C   |
|--------------------|-----------|
| Relative Humidity: | 32 %      |
| ATM Pressure:      | 101.4 kPa |

The testing was performed by Dean Liu on 2015-02-13.

Test Mode: Downloading

#### AC120V, 60Hz, Line:



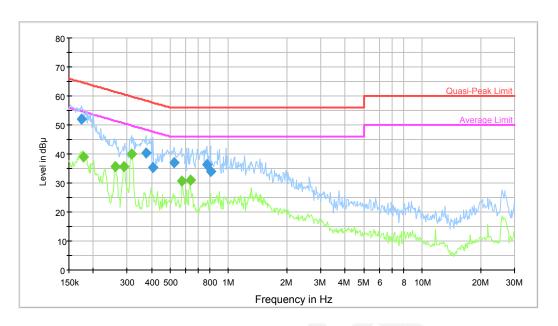
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| Frequency (MHz) | QuasiPeak<br>(dBμV) | Bandwidth<br>(kHz) | Line | Corr.<br>(dB) | Margin<br>(dB) | Limit (dBµV) | Comment    |
|-----------------|---------------------|--------------------|------|---------------|----------------|--------------|------------|
| 0.188994        | 48.7                | 9.000              | L1   | 10.6          | 15.4           | 64.1         | Compliance |
| 0.209621        | 43.9                | 9.000              | L1   | 10.8          | 19.3           | 63.2         | Compliance |
| 0.396530        | 43.8                | 9.000              | L1   | 10.6          | 14.1           | 57.9         | Compliance |
| 0.406123        | 41.2                | 9.000              | L1   | 10.6          | 16.5           | 57.7         | Compliance |
| 0.609741        | 38.8                | 9.000              | L1   | 10.5          | 17.2           | 56.0         | Compliance |
| 0.732382        | 35.3                | 9.000              | L1   | 10.6          | 20.7           | 56.0         | Compliance |

| Frequency<br>(MHz) | Average<br>(dBμV) | Bandwidth<br>(kHz) | Line | Corr. (dB) | Margin (dB) | Limit<br>(dBµV) | Comment    |
|--------------------|-------------------|--------------------|------|------------|-------------|-----------------|------------|
| 0.209621           | 34.5              | 9.000              | L1   | 10.8       | 18.7        | 53.2            | Compliance |
| 0.259937           | 35.8              | 9.000              | L1   | 10.7       | 15.6        | 51.4            | Compliance |
| 0.286019           | 34.3              | 9.000              | L1   | 10.7       | 16.4        | 50.6            | Compliance |
| 0.317235           | 39.5              | 9.000              | L1   | 10.7       | 10.2        | 49.8            | Compliance |
| 0.576662           | 30.3              | 9.000              | L1   | 10.4       | 15.7        | 46.0            | Compliance |
| 0.639600           | 25.8              | 9.000              | L1   | 10.5       | 20.2        | 46.0            | Compliance |

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#### AC120V, 60Hz, Neutral:



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| Frequency<br>(MHz) | QuasiPeak<br>(dBµV) | Bandwidth<br>(kHz) | Line | Corr.<br>(dB) | Margin (dB) | Limit (dBµV) | Comment    |
|--------------------|---------------------|--------------------|------|---------------|-------------|--------------|------------|
| 0.174519           | 52.1                | 9.000              | N    | 10.7          | 12.6        | 64.7         | Compliance |
| 0.375019           | 40.4                | 9.000              | N    | 10.9          | 18.0        | 58.4         | Compliance |
| 0.406123           | 35.3                | 9.000              | N    | 10.7          | 22.5        | 57.7         | Compliance |
| 0.524077           | 36.9                | 9.000              | N    | 10.3          | 19.1        | 56.0         | Compliance |
| 0.774393           | 36.3                | 9.000              | N    | 10.5          | 19.7        | 56.0         | Compliance |
| 0.805868           | 33.9                | 9.000              | N    | 10.5          | 22.1        | 56.0         | Compliance |

| Frequency<br>(MHz) | Average<br>(dBμV) | Bandwidth<br>(kHz) | Line | Corr.<br>(dB) | Margin (dB) | Limit (dBµV) | Comment    |
|--------------------|-------------------|--------------------|------|---------------|-------------|--------------|------------|
| 0.177322           | 38.9              | 9.000              | N    | 10.8          | 15.7        | 54.6         | Compliance |
| 0.259937           | 35.8              | 9.000              | N    | 11.2          | 15.6        | 51.4         | Compliance |
| 0.288307           | 35.8              | 9.000              | N    | 11.2          | 14.7        | 50.6         | Compliance |
| 0.317235           | 40.0              | 9.000              | N    | 11.1          | 9.8         | 49.8         | Compliance |
| 0.576662           | 30.8              | 9.000              | N    | 10.4          | 15.2        | 46.0         | Compliance |
| 0.634524           | 30.9              | 9.000              | N    | 10.5          | 15.1        | 46.0         | Compliance |

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#### FCC §15.109 - RADIATED SPURIOUS EMISSIONS

#### **Measurement Uncertainty**

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If  $U_{\text{lab}}$  is less than or equal to  $U_{\text{cispr}}$  of Table 1, then:

- -compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- -non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If  $U_{\text{lab}}$  is greater than  $U_{\text{cispr}}$  of Table 1, then:
- -compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} U_{cispr})$ , exceeds the disturbance limit;

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-non - compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit.

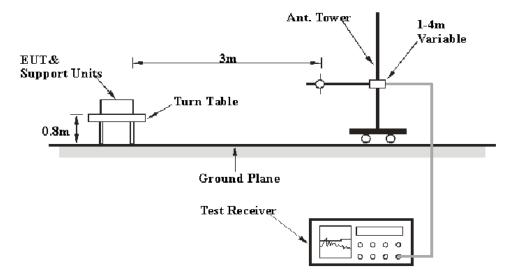
Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:30M~200MHz: 5.0 dB; 200M~1GHz: 6.2 dB; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB

Table 1 – Values of  $U_{\text{cispr}}$ 

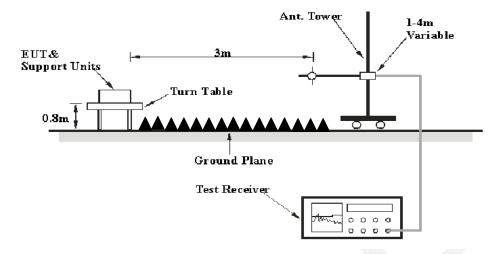
| Measurement  |        |  |  |  |  |
|--|--------|--|--|--|--|
| Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz) | 6.3 dB |  |  |  |  |
| Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)                   | 5.2 dB |  |  |  |  |
| Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)                  | 5.5 dB |  |  |  |  |

#### **EUT Setup**

Below 1GHz:



Above 1GHz:



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The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC Part 15.109 Class B limits.

#### **EMI Test Receiver Setup**

The system was investigated from 30 MHz to 6 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

| Frequency Range  | RBW     | Video B/W | IF B/W  | Detector |
|------------------|---------|-----------|---------|----------|
| 30MHz – 1000 MHz | 120 kHz | 300 kHz   | 120 kHz | QP       |
| Above 1 GHz      | 1 MHz   | 3 MHz     | /       | Peak     |
| Above I GHZ      | 1 MHz   | 10 Hz     | /       | Ave.     |

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#### **Test Procedure**

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

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The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

#### **Test Equipment List and Details**

| Manufacturer      | Description       | Model      | Serial<br>Number | Calibration<br>Date | Calibration<br>Due Date |
|-------------------|-------------------|------------|------------------|---------------------|-------------------------|
| R&S               | EMI Test Receiver | ESCI       | 100224           | 2014-05-09          | 2015-05-09              |
| Sunol<br>Sciences | Antenna           | ЈВ3        | A060611-3        | 2014-07-28          | 2017-07-27              |
| HP                | Amplifier         | 8447E      | 2434A02181       | 2014-09-01          | 2015-09-01              |
| R&S               | Spectrum Analyzer | FSEM       | DE31388          | 2014-05-09          | 2015-05-09              |
| ETS-Lindgren      | Horn Antenna      | 3115       | 000 527 35       | 2012-09-06          | 2015-09-06              |
| Mini-Circuit      | Amplifier         | ZVA-213-S+ | 054201245        | 2015-02-19          | 2016-02-19              |

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### **Corrected Amplitude & Margin Calculation**

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Loss + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

#### **Test Results Summary**

According to the data in the following table, the EUT complied with the FCC Part 15 B Class B, with the worst margin reading of:

1.3 dB at 30.0000MHz in the Vertical polarization

#### **Test Data**

#### **Environmental Conditions**

| Temperature:       | 22.9 °C   |  |  |
|--------------------|-----------|--|--|
| Relative Humidity: | 70%       |  |  |
| ATM Pressure:      | 101.3 kPa |  |  |

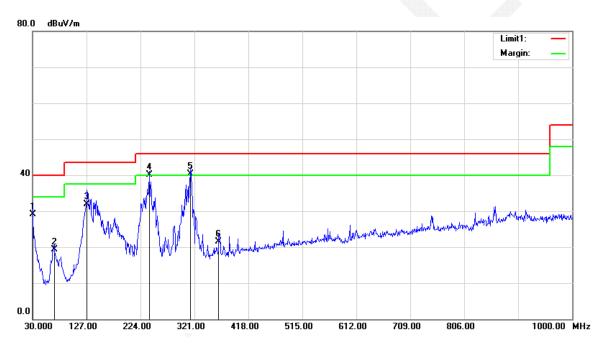
The testing was performed by Dean Liu from 2015-03-11.

Test Result: Compliance

Test Mode: Downloading

#### 1) Below 1GHz:

#### Horizontal



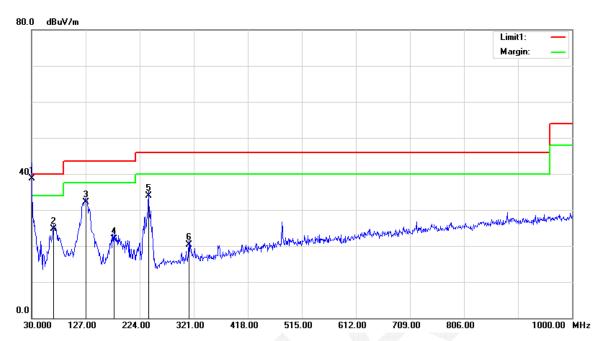
Report No.: RDG150212003-00D

| Frequency (MHz) | Receiver<br>Reading<br>(dBµV) | Detector<br>(PK/QP/Ave) | Correction<br>Factor<br>(dB/m) | Cord.<br>Amp.<br>(dBµV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|-----------------|-------------------------------|-------------------------|--------------------------------|---------------------------|-------------------|----------------|
| 30.0000         | 25.72                         | QP                      | 3.38                           | 29.10                     | 40.00             | 10.90          |
| 68.8000         | 31.15                         | QP                      | -11.85                         | 19.30                     | 40.00             | 20.70          |
| 127.9700        | 37.63                         | QP                      | -5.63                          | 32.00                     | 43.50             | 11.50          |
| 239.5200        | 48.07                         | QP                      | -7.97                          | 40.10                     | 46.00             | 5.90*          |
| 314.2100        | 45.99                         | QP                      | -5.59                          | 40.40                     | 46.00             | 5.60*          |
| 364.6500        | 26.05                         | QP                      | -4.45                          | 21.60                     | 46.00             | 24.40          |

<sup>\*</sup>Within measurement uncertainty!

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#### Vertical



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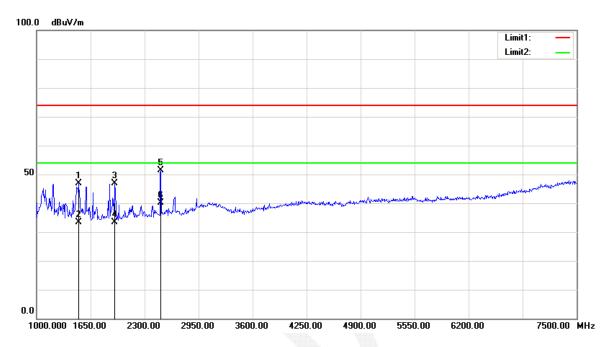
| Frequency (MHz) | Receiver<br>Reading<br>(dBµV) | Detector<br>(PK/QP/Ave) | Correction<br>Factor<br>(dB/m) | Cord.<br>Amp.<br>(dBμV/m) | Limit<br>(dBµV/m) | Margin<br>(dB) |  |
|-----------------|-------------------------------|-------------------------|--------------------------------|---------------------------|-------------------|----------------|--|
| 30.0000         | 35.32                         | QP                      | 3.38                           | 38.70                     | 40.00             | 1.30*          |  |
| 68.8000         | 36.55                         | QP                      | -11.85                         | 24.70                     | 40.00             | 15.30          |  |
| 127.9700        | 37.73                         | QP                      | -5.63                          | 32.10                     | 43.50             | 11.40          |  |
| 178.4100        | 30.26                         | QP                      | -8.36                          | 21.90                     | 43.50             | 21.60          |  |
| 239.5200        | 41.97                         | QP                      | -7.97                          | 34.00                     | 46.00             | 12.00          |  |
| 312.2700        | 26.04                         | QP                      | -5.64                          | 20.40                     | 46.00             | 25.60          |  |

 $<sup>*</sup>Within\ measurement\ uncertainty!$ 

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#### 2) Above 1GHz:

#### Horizontal



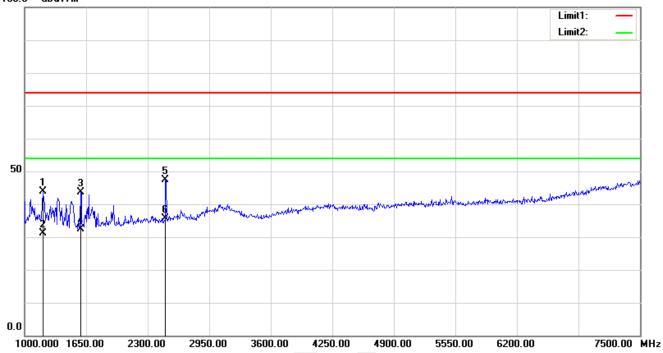
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| Frequency<br>(MHz) | Receiver<br>Reading<br>(dBµV) | Detector<br>(PK/QP/Ave) | Correction<br>Factor<br>(dB/m) | Cord.<br>Атр.<br>(dBµV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------------------|-------------------------|--------------------------------|---------------------------|-------------------|----------------|
| 1507.000           | 48.17                         | peak                    | -1.23                          | 46.94                     | 74.00             | 27.06          |
| 1507.000           | 34.68                         | AVG                     | -1.23                          | 33.45                     | 54.00             | 20.55          |
| 1942.500           | 46.98                         | peak                    | -0.02                          | 46.96                     | 74.00             | 27.04          |
| 1942.500           | 33.38                         | AVG                     | -0.02                          | 33.36                     | 54.00             | 20.64          |
| 2495.000           | 49.31                         | peak                    | 2.15                           | 51.46                     | 74.00             | 22.54          |
| 2495.000           | 37.99                         | AVG                     | 2.15                           | 40.14                     | 54.00             | 13.86          |

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#### Vertical





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|                    |                               |                         |                                | 7007                      |                   |                |
|--------------------|-------------------------------|-------------------------|--------------------------------|---------------------------|-------------------|----------------|
| Frequency<br>(MHz) | Receiver<br>Reading<br>(dBµV) | Detector<br>(PK/QP/Ave) | Correction<br>Factor<br>(dB/m) | Cord.<br>Amp.<br>(dBµV/m) | Limit<br>(dBµV/m) | Margin<br>(dB) |
| 1198.250           | 45.09                         | peak                    | -1.15                          | 43.94                     | 74.00             | 30.06          |
| 1198.250           | 32.40                         | AVG                     | -1.15                          | 31.25                     | 54.00             | 22.75          |
| 1594.750           | 44.96                         | peak                    | -1.45                          | 43.51                     | 74.00             | 30.49          |
| 1594.750           | 33.88                         | AVG                     | -1.45                          | 32.43                     | 54.00             | 21.57          |
| 2491.750           | 45.35                         | peak                    | 2.15                           | 47.50                     | 74.00             | 26.50          |
| 2491.750           | 33.53                         | AVG                     | 2.15                           | 35.68                     | 54.00             | 18.32          |

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#### **DECLARATION LETTER**

ENSAMBLADORA Y DISTRIBUIDORA DE TECNOLOGIA S.A.

Add: OFICINA 440, EDIFICIO TRADE BUILDING, AV. JOAQUIN ORRANTIA Y

Report No.: RDG150212003-00D

LEOPOLDO BENITEZ, GUAYAQUIL, ECUADOR

Tel: +59345103027 Fax: 59342004140ext.104

## **Product Similarity Declaration**

Date: 2015-03-20

To Whom It May Concern,

We, ENSAMBLADORA Y DISTRIBUIDORA DE TECNOLOGIA S.A., hereby declare that our product 3G Smart Phone, Model Number: QA4928, Athos, B4022 are electrically identical with the same electromagnetic emissions and electromagnetic compatibility characteristics. Model Numbers: Athos, B4022 is electrically identical with the Model Number: QA4928 that was certified by BACL. Their only difference is the model name.

The rest are the same.

Please contact me if you have any question.

kenlyn Velez

Signature:

Kerlyn Velez

General Manager Assistant

\*\*\*\*\*END OF REPORT\*\*\*\*

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