



## **TEST REPORT**

**No. I20D00114-SRD26**

***For***

**Client: MobiWire SAS**

**Production: 4G Smart Phone**

**Model Name: MobiWire Sora |H5024,Smart E11 (H5024)**

**Brand Name: MobiWire,Vodafone**

**FCC ID : QPN-SORA**

**Hardware Version: V01A**

**Software Version: SORA\_V01\_200520**

**Issued date: 2020-09-11**

## NOTE

1. The test results in this test report relate only to the devices specified in this report.
2. This report shall not be reproduced except in full without the written approval of China Telecommunication Technology Labs.
3. For the test results, the uncertainty of measurement is not taken into account when judging the compliance with specification, and the results of measurement or the average value of measurement results are taken as the criterion of the compliance with specification directly.

### **Test Laboratory:**

East China Institute of Telecommunications

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**Revision Version**

| Report Number   | Revision | Date       | Memo                               |
|-----------------|----------|------------|------------------------------------|
| I20D00114-SRD26 | 00       | 2020-08-20 | Initial creation of test report    |
| I20D00114-SRD26 | 01       | 2020-09-11 | Second modification of test report |

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## 1. Test Laboratory

### 1.1. Testing Location

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| Company Name        | ECIT Shanghai, East China Institute of Telecommunications                |
| Address             | Block No.4, No.766, Jingang Road, Pudong District, Shanghai, P. R. China |
| Postal Code         | 201206                                                                   |
| Telephone           | +86 21 63843300                                                          |
| FCC registration No | CN1177                                                                   |

### 1.2. Testing Environment

|                    |           |
|--------------------|-----------|
| Normal Temperature | 15°C-35°C |
| Relative Humidity  | 20%-75%   |

#### Project Data

|                    |            |
|--------------------|------------|
| Project Leader     | Yu Anlu    |
| Testing Start Date | 2020-08-03 |
| Testing End Date   | 2020-08-04 |

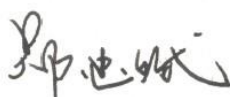
### 1.3. Signature



**Liu Yan**  
(Prepared this test report)



**Fan Songyan**  
(Reviewed this test report)



**Zheng Zhongbin**  
(Approved this test report)

## 2. Client Information

### 2.1. Applicant Information

|              |                                                 |
|--------------|-------------------------------------------------|
| Company Name | MobiWire SAS                                    |
| Address      | 79 avenue Francois Arago, 92000 NANTERRE France |
| Telephone    | +33668018722                                    |
| Postcode     | /                                               |

### 2.2. Manufacturer Information

|              |                                                 |
|--------------|-------------------------------------------------|
| Company Name | MobiWire SAS                                    |
| Address      | 79 avenue Francois Arago, 92000 NANTERRE France |
| Telephone    | +33668018722                                    |
| Postcode     | /                                               |

### 3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

#### 3.1. About EUT

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Production              | 4G Smart Phone                                                             |
| Model name              | MobiWire Sora  H5024,Smart E11 (H5024)                                     |
| GSM Frequency Band      | 850/900/1800/1900                                                          |
| UMTS Frequency Band     | I/II/V/VIII                                                                |
| Extreme Temperature     | -10/+55°C                                                                  |
| Nominal Voltage         | 3.80V                                                                      |
| Extreme High Voltage    | 4.35V                                                                      |
| Extreme Low Voltage     | 3.60V                                                                      |
| Maximum of Antenna Gain | GSM850: -3dBi; PCS1900: -1dBi;<br>WCDMA BAND II: -1dBi; WCDMA BAND V: 3dBi |

Note:

- Photographs of EUT are shown in ANNEX A of this test report.
- The value of the antenna gain is provided by the customer. For specific antenna information, please check the antenna specifications of the customer.

#### 3.2. Internal Identification of EUT used during the test

| EUT ID* | SN or IMEI      | HW Version | SW Version      | Date of receipt |
|---------|-----------------|------------|-----------------|-----------------|
| N03     | 354128300000727 | V01A       | SORA_V01_200520 | 2020-07-24      |

\*EUT ID: is used to identify the test sample in the lab internally.

#### 3.3. Internal Identification of AE used during the test

| AE ID* | Description | Type | Manufacturer |
|--------|-------------|------|--------------|
| AE1    | RF cable    | ---  | MobiWire SAS |

\*AE ID: is used to identify the test sample in the lab internally.

## 4. Reference Documents

### 4.1. Documents supplied by applicant

All technical documents are supplied by the client or manufacturer, which is the basis of testing.

### 4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

| Reference      | Title                                                                                                           | Version    |
|----------------|-----------------------------------------------------------------------------------------------------------------|------------|
| FCC Part 2     | FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS                                   | 2018-10-01 |
| FCC Part 22    | PUBLIC MOBILE SERVICES                                                                                          | 2018-10-01 |
| FCC Part 24    | PERSONAL COMMUNICATIONS SERVICES                                                                                | 2018-10-01 |
| ANSI-TIA-603-E | Land Mobile FM or PM Communications Equipment Measurement and Performance Standards                             | 2016       |
| ANSI C63.26    | American National Standard of Procedures for Compliance Testing of Licensed Transmitters Used in Licensed Radio | 2015       |
| KDB 971168 D01 | Measurement Guidance for Certification of Licensed Digital Transmitters                                         | v03r01     |

## 5. Test Results

### 5.1. Summary of Test Results

| Measurement Items              | Sub-clause of Part2/22/24          | Verdict |
|--------------------------------|------------------------------------|---------|
| Band Edge at antenna terminals | 22.917(a)/24.238(a)                | P       |
| Emission Limit                 | 2.1051/22.917/24.238/22.913/24.232 | P       |

Note: please refer to Annex A in this test report for the detailed test results.

The following terms are used in the above table.

|    |                                                                                |
|----|--------------------------------------------------------------------------------|
| P  | Pass, the EUT complies with the essential requirements in the standard.        |
| NP | Not Perform, the test was not performed by ECIT.                               |
| NA | Not Applicable, the test was not applicable.                                   |
| F  | Fail, the EUT does not comply with the essential requirements in the standard. |

### 5.2. Statements

The MobiWire Sora |H5024,Smart E11 (H5024) is a variant model for testing.

ECIT only performed test cases which identified with P/NP/NA/F results in Annex A.

In this report, we only retest the radiation emission. And the conduct test results please refer to report No: I19D00035-SRD04-2G&3G, which was prepared by East China Institute of Telecommunications.

ECIT has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

## 6. Test Equipments Utilized

### 6.1. Radiated Emission Test System

The test equipment and ancillaries used are as follows.

| Item | Instrument Name                      | Type     | SN           | Manufacturer | Cal. Date  | Cal. interval |
|------|--------------------------------------|----------|--------------|--------------|------------|---------------|
| 1    | Universal Radio Communication Tester | CMU200   | 123123       | R&S          | 2020-05-10 | 1 year        |
| 2    | EMI Test Receiver                    | ESU40    | 100307       | R&S          | 2020-05-10 | 1 year        |
| 3    | TRILOG Antenna                       | VULB9163 | VULB9163-515 | Schwarzbeck  | 2020-02-28 | 2 years       |
| 4    | Double- ridged guide Antenna         | ETS-3117 | 00135890     | ETS          | 2020-02-28 | 2 years       |
| 5    | 2-Line V-Network                     | ENV216   | 101380       | R&S          | 2020-05-10 | 1 year        |
| 6    | RF Signal Generator                  | SMF100A  | 102314       | R&S          | 2020-05-10 | 1 year        |
| 7    | Amplifier                            | SCU08    | 10146        | R&S          | 2020-05-10 | 1 year        |

### Anechoic chamber

Fully anechoic chamber by ETS

## 7. Measurement Uncertainty

Measurement uncertainty for all the testing in this report are within the limit specified in ECIT documents. The detailed measurement uncertainty is defined in ECIT documents.

| Measurement Items                       | Range              | Confidence Level | Calculated Uncertainty |
|-----------------------------------------|--------------------|------------------|------------------------|
| Maximum Peak Output Power               | 30MHz-3600MHz      | 95%              | $\pm 0.544\text{dB}$   |
| EBW and VBW                             | 30MHz-3600MHz      | 95%              | $\pm 62.04\text{Hz}$   |
| Transmitter Spurious Emission-Conducted | 30MHz-2GHz         | 95%              | $\pm 0.90\text{dB}$    |
| Transmitter Spurious Emission-Conducted | 2GHz-3.6GHz        | 95%              | $\pm 0.88\text{dB}$    |
| Transmitter Spurious Emission-Conducted | 3.6GHz-8GHz        | 95%              | $\pm 0.96\text{dB}$    |
| Transmitter Spurious Emission-Conducted | 8GHz-20GHz         | 95%              | $\pm 0.94\text{dB}$    |
| Transmitter Spurious Emission-Radiated  | 9KHz-30MHz         | 95%              | $\pm 5.66\text{dB}$    |
| Transmitter Spurious Emission-Radiated  | 30MHz-1000MHz      | 95%              | $\pm 4.98\text{dB}$    |
| Transmitter Spurious Emission-Radiated  | 1000MHz -18000MHz  | 95%              | $\pm 5.06\text{dB}$    |
| Transmitter Spurious Emission-Radiated  | 18000MHz -40000MHz | 95%              | $\pm 5.20\text{dB}$    |
| Frequency stability                     | 1MHz-16GHz         | 95%              | $\pm 62.04\text{Hz}$   |

## 8. Test Environment

**Shielding Room1** (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

|                          |                            |
|--------------------------|----------------------------|
| Temperature              | Min. = 15 °C, Max. = 35 °C |
| Relative humidity        | Min. = 20 %, Max. = 75 %   |
| Shielding effectiveness  | > 100 dB                   |
| Ground system resistance | < 0.5 Ω                    |

**Control room** did not exceed following limits along the EMC testing:

|                          |                            |
|--------------------------|----------------------------|
| Temperature              | Min. = 15 °C, Max. = 35 °C |
| Relative humidity        | Min. = 25 %, Max. = 75 %   |
| Shielding effectiveness  | > 100 dB                   |
| Electrical insulation    | > 10 kΩ                    |
| Ground system resistance | < 0.5 Ω                    |

**Fully-anechoic chamber1** (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

|                              |                                            |
|------------------------------|--------------------------------------------|
| Temperature                  | Min. = 15 °C, Max. = 35 °C                 |
| Relative humidity            | Min. = 25 %, Max. = 75 %                   |
| Shielding effectiveness      | > 100 dB                                   |
| Electrical insulation        | > 10 kΩ                                    |
| Ground system resistance     | < 0.5 Ω                                    |
| VSWR                         | Between 0 and 6 dB, from 1GHz to 18GHz     |
| Site Attenuation Deviation   | Between -4 and 4 dB, 30MHz to 1GHz         |
| Uniformity of field strength | Between 0 and 6 dB, from 80MHz to 3000 MHz |

## ANNEX A. Detailed Test Results

### ANNEX A.1 EMISSION LIMIT

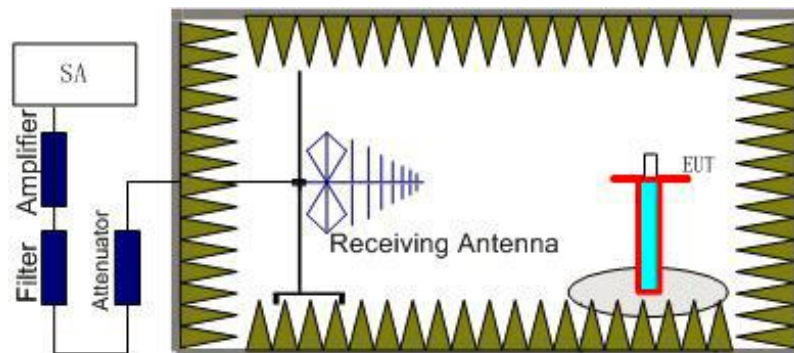
#### A.8.2.1 GSM Measurement Method

The measurement procedures in TIA-603E-2016 are used.

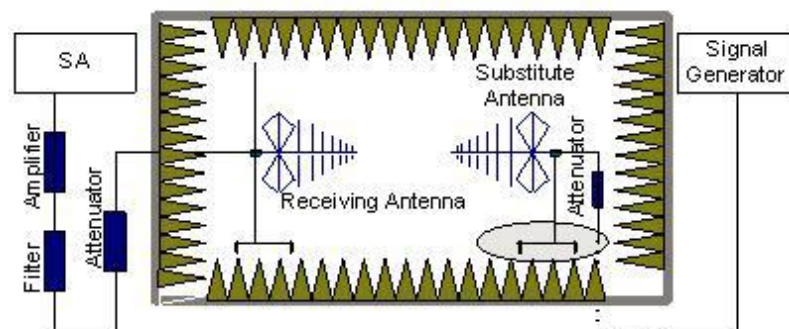
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set as outlined in Part 24.238 and Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of PCS1900 and GSM850.

#### A.8.2.2 The procedure of radiated spurious emissions is as follows:

1. Below 1 GHz, EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. Above 1 GHz, EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10<sup>th</sup> harmonic were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{Mea}$ ) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded ( $P_r$ ). The power of signal source ( $P_{Mea}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss ( $P_{pl}$ ) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain ( $G_a$ ) should be recorded after test.

A amplifier should be connected in for the test.

The Path loss ( $P_{pl}$ ) is the summation of the cable loss .

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{Mea} - P_{pl} + G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.

6. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP - 2.15\text{dBi}$

#### A.8.2.3 Measurement Limit

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power ( $P$ ) by a factor of at least  $43 + 10 \log(P)$  dB.

The specification that emissions shall be attenuated below the transmitter power ( $P$ ) by at least  $43 + 10 \log(P)$  dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

#### A.8.2.4 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the PCS1900 band (1850.2 MHz, 1880 MHz and 1909.8 MHz) and GSM850 band (824.2MHz, 836.6MHz, 848.8MHz) . It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the PCS1900 ,GSM850 into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

#### A.8.2.5 Measurement Results

Measurements results:

| Frequency | Channel | Frequency Range | Result |
|-----------|---------|-----------------|--------|
| GSM1900   | Low     | 30MHz~20GHz     | P      |
|           | Middle  | 30MHz~20GHz     | P      |
|           | High    | 30MHz~20GHz     | P      |

**GSM1900****GSM Mode Channel 512****Final result:**

| Frequency (MHz) | PMea (dBm) | Pcl (dBm) | Ga (dBi) | Peak EIRP (dBm) | Limit (dBm) | Polarization |
|-----------------|------------|-----------|----------|-----------------|-------------|--------------|
| 3700.2          | -27.07     | 6.6       | 7.7      | -25.97          | -13         | H            |
| 5550.6          | -30.43     | 8.2       | 9.5      | -29.13          | -13         | V            |
| 7400.4          | -36.05     | 9.7       | 14.6     | -31.15          | -13         | V            |
| 9249.6          | -43.16     | 10.6      | 18.5     | -35.26          | -13         | V            |
| 11101.2         | -36.87     | 12.1      | 18.1     | -30.87          | -13         | H            |
| 12951.6         | -29.31     | 13.2      | 20.2     | -22.31          | -13         | V            |

**GSM Mode Channel 661****Final result:**

| Frequency (MHz) | PMea (dBm) | Pcl (dBm) | Ga (dBi) | Peak EIRP (dBm) | Limit (dBm) | Polarization |
|-----------------|------------|-----------|----------|-----------------|-------------|--------------|
| 3759.6          | -27.2      | 6.6       | 7.7      | -26.1           | -13         | H            |
| 5640.6          | -32.54     | 8.3       | 10.5     | -30.34          | -13         | V            |
| 7519.2          | -37.66     | 9.7       | 14.6     | -32.76          | -13         | V            |
| 9399.6          | -42.85     | 10.7      | 18.6     | -34.95          | -13         | H            |
| 11280.0         | -33.15     | 12.1      | 18.5     | -26.75          | -13         | H            |
| 13161.6         | -31.03     | 13.0      | 21.8     | -22.23          | -13         | V            |

**GSM Mode Channel 810****Final result:**

| Frequency<br>(MHz) | PMea<br>(dBm) | Pcl (dBm) | Ga (dBi) | Peak EIRP<br>(dBm) | Limit<br>(dBm) | Polarization |
|--------------------|---------------|-----------|----------|--------------------|----------------|--------------|
| 3819.6             | -31.81        | 6.7       | 7.7      | -30.81             | -13            | V            |
| 5729.4             | -27.52        | 8.5       | 10.5     | -25.52             | -13            | V            |
| 7639.2             | -40.61        | 9.7       | 15.3     | -35.01             | -13            | H            |
| 9548.4             | -43.29        | 10.7      | 18.6     | -35.39             | -13            | V            |
| 11458.8            | -34.2         | 12.3      | 18.1     | -28.4              | -13            | V            |
| 13369.2            | -35.19        | 13.7      | 21.8     | -27.09             | -13            | V            |

**Note: the EUT was displayed in several different direction, the worst cases were shown.**

### A.8.3 WCDMA Measurement Method

The measurements procedures in TIA-603E-2016 are used.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in Part 24.238 and Part 24.917.

The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band V.

**The procedure of radiated spurious emissions is the same like GSM.**

#### A.8.3.1 Measurement Limit

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

#### A.8.3.2 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the WCDMA Band V (826.4MHz, 836.6MHz and 846.6MHz) . It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the WCDMA Band V into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

#### A.8.3.3 Measurement Results Table

| Frequency     | Channel | Frequency Range | Result |
|---------------|---------|-----------------|--------|
| WCDMA Band II | Low     | 30MHz~20GHz     | P      |
|               | Middle  | 30MHz~20GHz     | P      |
|               | High    | 30MHz~20GHz     | P      |

**WCDMA BAND II Mode Channel 9262**
**Final result:**

| Frequency (MHz) | PMea (dBm) | Pcl (dBm) | Ga (dBi) | Peak EIRP (dBm) | Limit (dBm) | Polarization |
|-----------------|------------|-----------|----------|-----------------|-------------|--------------|
| 3703.2          | -49.63     | 6.6       | 7.7      | -48.53          | -13         | H            |
| 5560.0          | -49.59     | 8.2       | 9.5      | -48.29          | -13         | V            |
| 7410.0          | -58.17     | 9.7       | 14.6     | -53.27          | -13         | H            |
| 9258.0          | -61.68     | 10.6      | 18.5     | -53.78          | -13         | V            |
| 11107.1         | -57.27     | 12.1      | 18.1     | -51.27          | -13         | V            |
| 13003.0         | -55.18     | 13.2      | 20.2     | -48.18          | -13         | H            |

**WCDMA BAND II Mode Channel 9400**
**Final result:**

| Frequency (MHz) | PMea (dBm) | Pcl (dBm) | Ga (dBi) | Peak EIRP (dBm) | Limit (dBm) | Polarization |
|-----------------|------------|-----------|----------|-----------------|-------------|--------------|
| 3758.0          | -49.03     | 6.6       | 7.7      | -47.93          | -13         | H            |
| 5636.0          | -48.05     | 8.3       | 10.5     | -45.85          | -13         | V            |
| 7520.0          | -57.03     | 9.7       | 14.6     | -52.13          | -13         | V            |
| 9407.2          | -61.79     | 10.7      | 18.6     | -53.89          | -13         | H            |
| 11283.2         | -56.3      | 12.1      | 18.5     | -49.9           | -13         | H            |
| 13141.6         | -56.69     | 13.0      | 21.8     | -47.89          | -13         | V            |

**WCDMA BAND II Mode Channel 9538****Final result:**

| Frequency<br>(MHz) | PMea<br>(dBm) | Pcl (dBm) | Ga (dBi) | Peak EIRP<br>(dBm) | Limit<br>(dBm) | Polarization |
|--------------------|---------------|-----------|----------|--------------------|----------------|--------------|
| 3813.6             | -51.08        | 6.7       | 7.7      | -50.08             | -13            | V            |
| 5720.4             | -47.67        | 8.5       | 10.5     | -45.67             | -13            | V            |
| 7630.8             | -55.38        | 9.7       | 15.3     | -49.78             | -13            | V            |
| 9542.8             | -60.37        | 10.7      | 18.6     | -52.47             | -13            | V            |
| 11519.8            | -54.5         | 12.3      | 18.1     | -48.7              | -13            | H            |
| 13331.7            | -56.29        | 13.6      | 21.8     | -48.09             | -13            | H            |

**Note: the EUT was displayed in several different direction, the worst cases were shown.**

## ANNEX B. Accreditation Certificate



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