



TEST REPORT

Report Reference No. : **TRE1805021402** **R/C.....:** 32530

FCC ID : **2APZHSC93100MDEBVG3**

Applicant's name : **Nexus ID Solutions AB**

Address : Telefonvägen 26,126 26 Hägersten Sweden

Manufacturer : CiVinTec Global Co., Limited

Address : F17,1703,Headquarters Economic Center Buliding, Zhonghaixin Science&Technology Park, Bulan Rd, Shenzhen, China

Test item description : **Access Control Door Reader**

Trade Mark : -

Model/Type reference : SC93110-MDEB-VG3

Listed Model(s) : -

Standard : **FCC CFR Title 47 Part 15 Subpart C Section 15.209**

Date of receipt of test sample : May 24, 2018

Date of testing : May 25, 2018 - Jun 05, 2018

Date of issue : Jun.12, 2018

Result : **PASS**

Compiled by
(position+printedname+signature)....: File administrators Fanghui Zhu

Supervised by
(position+printedname+signature)....: Project Engineer Jerry Wang

Approved by
(position+printedname+signature)....: RF Manager Hans Hu

Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

Address : 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.209](#): Radiated emission limits; general requirements.

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report version information

| Revision No. | Date of issue | Description |
|--------------|---------------|-------------|
| N/A | 2018-06-12 | Original |
| | | |
| | | |
| | | |
| | | |

2. TEST DESCRIPTION

| Test Item | Section in CFR 47 | Result | Test Engineer |
|---------------------|-------------------|--------|---------------|
| Antenna requirement | 15.203 | PASS | Baozhu hu |
| Radiated Emissions | 15.209 | PASS | Andrew Li |

Remark: N/A: not applicable

3. **SUMMARY**

3.1. Client Information

| | |
|---------------|--|
| Applicant: | Nexus ID Solutions AB |
| Address: | Telefonvägen 26,126 26 Hägersten Sweden |
| Manufacturer: | CiVinTec Global Co., Limited |
| Address: | F17,1703,Headquarters Economic Center Buliding, Zhonghaixin Science&Technology Park, Bulan Rd, Shenzhen, China |

3.2. Product Description

| | |
|----------------------|----------------------------|
| Name of EUT: | Access Control Door Reader |
| Trade Mark: | - |
| Model No.: | SC93110-MDEB-VG3 |
| Listed Model(s): | - |
| Power supply*: | DC 9V-30V |
| Adapter information: | - |

RF Specification

| | |
|----------------------|-------------|
| Operation frequency: | 125kHz |
| Channel number: | 1 |
| Modulation Type: | ASK |
| Antenna type: | PCB antenna |
| Antenna gain: | 0dBi |

*: prescan all test voltage, found worst case at DC 12V, so only show the test data of DC 12V.

3.3. EUT operation mode

TEST MODE

| |
|--|
| For RF test items |
| The engineering test program was provided and enabled to make EUT continuous transmit. |
| For AC power line conducted emissions: |
| The EUT was set to connect with large package sizes transmission. |

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

| | | |
|--|----------------|---|
| | Manufacturer : | / |
| | Model No. : | / |
| | Manufacturer : | / |
| | Model No. : | / |

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235.

IC-Registration No.: 5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B-1.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| | |
|--------------------|-------------|
| Temperature: | 15~35°C |
| Relative Humidity: | 30~60 % |
| Air Pressure: | 950~1050mba |

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors in calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system according to ISO/IEC 17025. Further more, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Here after the best measurement capability for Shenzhen Huatongwei is reported:

| Test Items | Measurement Uncertainty | Notes |
|---|-------------------------|-------|
| Conducted spurious emissions 9KHz-30MHz | 3.39 dB | (1) |
| Radiated Emissions 30~1000MHz | 4.24 dB | (1) |
| Radiated Emissions 1~18GHz | 5.16 dB | (1) |
| Radiated Emissions 18-40GHz | 5.54 dB | (1) |
| Occupied Bandwidth | ----- | (1) |

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

4.5. Equipments Used during the Test

| Conducted Emissions | | | | | | |
|---------------------|-------------------------|--------------------|--------------|-------------|----------------------|----------------------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. (mm-dd-yy) | Next Cal. (mm-dd-yy) |
| 1 | EMI Test Receiver | R&S | ESCI | 101247 | 11/11/2017 | 11/10/2018 |
| 2 | Artificial Mains | SCHWARZBECK | NNLK 8121 | 573 | 11/11/2017 | 11/10/2018 |
| 3 | 2-Line V-Network | R&S | ESH3-Z5 | 100049 | 11/11/2017 | 11/10/2018 |
| 4 | Pulse Limiter | R&S | ESH3-Z2 | 101488 | 11/11/2017 | 11/10/2018 |
| 5 | RF Connection Cable | HUBER+SUHNER | EF400 | N/A | 11/21/2017 | 11/20/2018 |
| 6 | Test Software | R&S | ES-K1 | N/A | N/A | N/A |
| Radiated Emissions | | | | | | |
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. (mm-dd-yy) | Next Cal. (mm-dd-yy) |
| 1 | Semi-Anechoic Chamber | Albatross projects | SAC-3m-01 | C11121 | 10/16/2016 | 10/15/2019 |
| 2 | EMI Test Receiver | R&S | ESCI | 100900 | 11/11/2017 | 11/10/2018 |
| 3 | Loop Antenna | R&S | HFH2-Z2 | 100020 | 11/20/2017 | 11/19/2020 |
| 4 | Ultra-Broadband Antenna | SCHWARZBECK | VULB9163 | 538 | 4/5/2017 | 4/4/2020 |
| 5 | Horn Antenna | SCHWARZBECK | 9120D | 1011 | 3/27/2017 | 3/26/2020 |
| 6 | Broadband Horn Antenna | SCHWARZBECK | BBHA9170 | BBHA9170472 | 3/27/2017 | 3/26/2020 |
| 7 | Pre-amplifier | SCHWARZBECK | BBV 9743 | 9743-0022 | 10/18/2017 | 10/17/2018 |
| 8 | Broadband Pre-amplifier | SCHWARZBECK | BBV 9718 | 9718-248 | 10/18/2017 | 10/17/2018 |
| 9 | Spectrum Analyzer | R&S | FSP40 | 100597 | 11/11/2017 | 11/10/2018 |
| 10 | RF Connection Cable | HUBER+SUHNER | RE-7-FL | N/A | 11/21/2017 | 11/20/2018 |
| 12 | Test Software | Audix | E3 | N/A | N/A | N/A |
| 13 | Test Software | R&S | ES-K1 | N/A | N/A | N/A |
| 14 | Turntable | Maturo Germany | TT2.0-1T | N/A | N/A | N/A |
| 15 | Antenna Mast | Maturo Germany | CAM-4.0-P-12 | N/A | N/A | N/A |
| RF Conducted Test | | | | | | |
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. (mm-dd-yy) | Next Cal. (mm-dd-yy) |
| 1 | Spectrum Analyzer | R&S | FSV40 | 100048 | 11/11/2017 | 11/10/2018 |

5. **TEST CONDITIONS AND RESULTS**

5.1. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

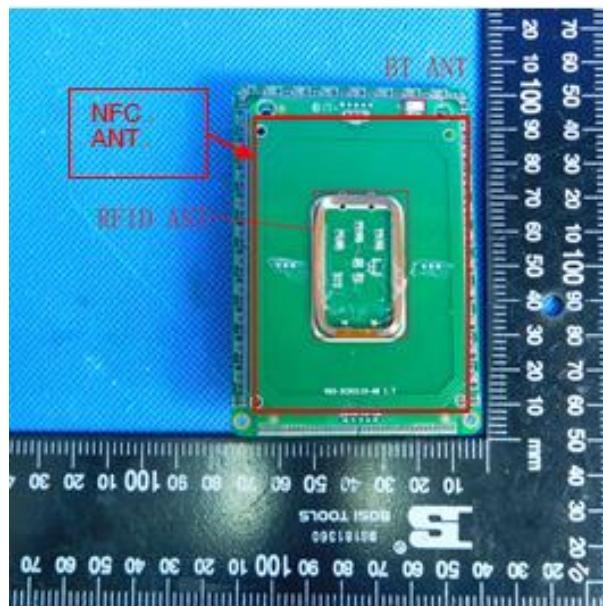
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

TEST RESULTS

Passed Not Applicable



5.2. Radiated Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

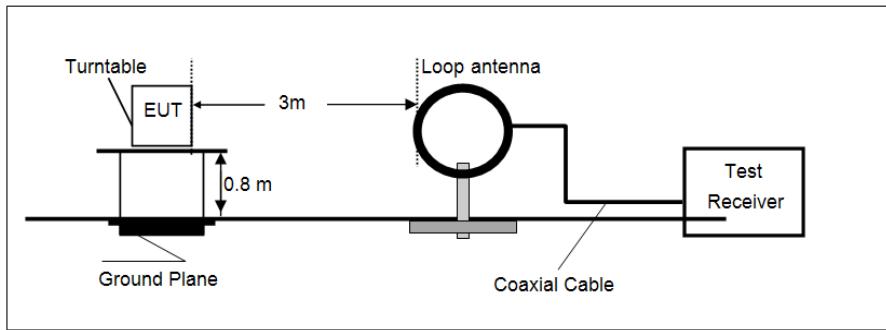
| Frequency(MHz) | Field strength (dBuV/m) |
|----------------|-------------------------|
| 0.009-0.490 | 2400/F(kHz) at 300m |
| 0.490-1.705 | 24000/F(kHz) at 30m |
| 1.705-30 | 29.54 at 30m |
| 30~88 | 40.00 at 3m |
| 88~216 | 43.50 at 3m |
| 216~960 | 46.00 at 3m |
| 960~1000 | 54.00 at 3m |

Note:For measurements in the band 0.009MHz to 0.490MHz the specified measurement distance is 300m. The distance correction will be: Correction = $40 * \log (300/3) = 80$ dB

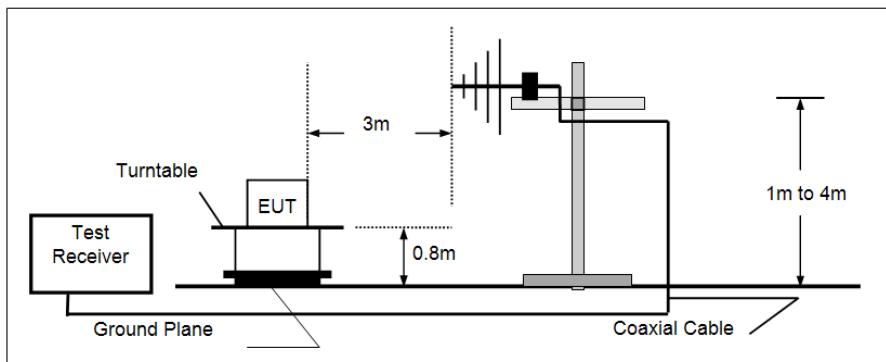
For measurements in the band 0.490MHz to 30MHz the specified measurement distance is 30m. The distance correction will be: Correction = $20 * \log (30/3) = 20$ dB

TEST CONFIGURATION

- 9 kHz ~ 30 MHz



- 30 MHz ~ 1 GHz



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:

| Frequency | Detector | RBW | VBW | Remark |
|-------------|------------|--------|--------|------------------|
| 9kHz-150kHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak Value |
| 50kHz-30MHz | Quasi-peak | 9kHz | 30kHz | Quasi-peak Value |
| 30MHz-1GHz | Quasi-peak | 120kHz | 300KHz | Quasi-peak Value |

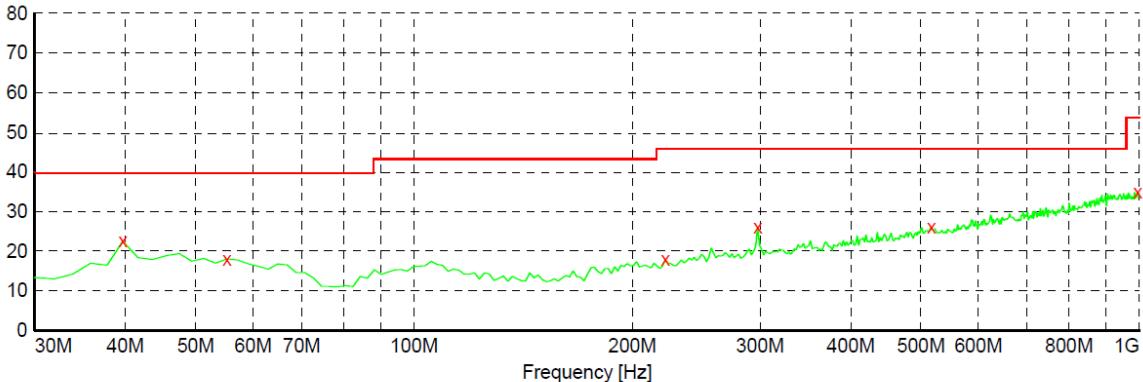
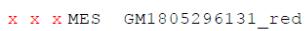
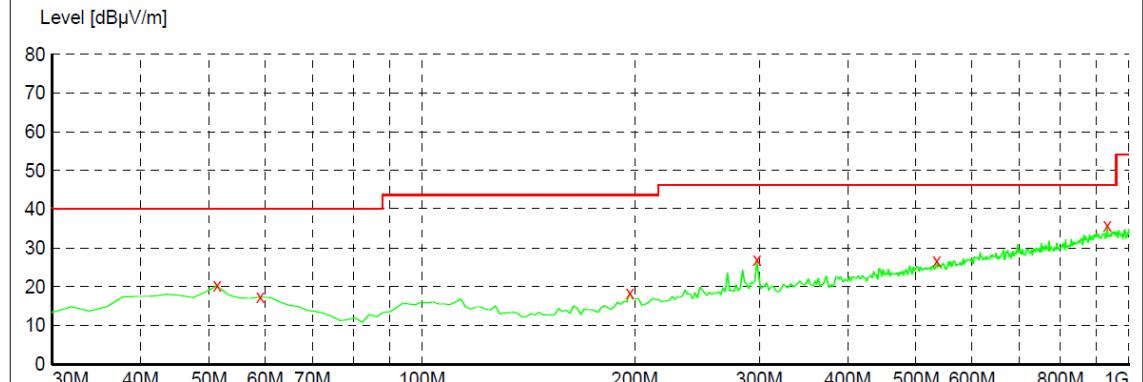
TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Passed Not Applicable

■ 30 MHz ~ 1 GHz

| Polarization: | | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|--------------|-----------------------|--------------|------|--------------|----------------|--------------|--|------------------|-----------------------|--------------|-----------------------|--------------|------|--------------|----------------|--------------|--|-----------|-------|-------|------|------|-----|-------|--------|------------|--|-----------|-------|------|------|------|-----|-------|--------|------------|--|------------|-------|------|------|------|-----|-------|--------|------------|--|------------|-------|------|------|------|-----|-------|--------|------------|--|------------|-------|------|------|------|-----|-------|--------|------------|--|------------|-------|-----|------|------|-----|-------|--------|------------|--|
| Level [dB μ V/m] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <thead> <tr> <th>Frequency MHz</th><th>Level dBμV/m</th><th>Transd dB</th><th>Limit dBμV/m</th><th>Margin dB</th><th>Det.</th><th>Height cm</th><th>Azimuth deg</th><th>Polarization</th><th></th></tr> </thead> <tbody> <tr><td>39.700000</td><td>22.50</td><td>-10.1</td><td>40.0</td><td>17.5</td><td>---</td><td>100.0</td><td>134.00</td><td>VERTICAL</td><td></td></tr> <tr><td>55.220000</td><td>18.00</td><td>-9.2</td><td>40.0</td><td>22.0</td><td>---</td><td>100.0</td><td>189.00</td><td>VERTICAL</td><td></td></tr> <tr><td>222.060000</td><td>17.90</td><td>-9.8</td><td>46.0</td><td>28.1</td><td>---</td><td>100.0</td><td>357.00</td><td>VERTICAL</td><td></td></tr> <tr><td>297.720000</td><td>26.00</td><td>-7.3</td><td>46.0</td><td>20.0</td><td>---</td><td>100.0</td><td>29.00</td><td>VERTICAL</td><td></td></tr> <tr><td>516.940000</td><td>26.10</td><td>-1.4</td><td>46.0</td><td>19.9</td><td>---</td><td>100.0</td><td>42.00</td><td>VERTICAL</td><td></td></tr> <tr><td>994.180000</td><td>34.90</td><td>7.7</td><td>54.0</td><td>19.1</td><td>---</td><td>100.0</td><td>162.00</td><td>VERTICAL</td><td></td></tr> </tbody> </table> | | | | | | | | | | Frequency MHz | Level dB μ V/m | Transd dB | Limit dB μ V/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization | | 39.700000 | 22.50 | -10.1 | 40.0 | 17.5 | --- | 100.0 | 134.00 | VERTICAL | | 55.220000 | 18.00 | -9.2 | 40.0 | 22.0 | --- | 100.0 | 189.00 | VERTICAL | | 222.060000 | 17.90 | -9.8 | 46.0 | 28.1 | --- | 100.0 | 357.00 | VERTICAL | | 297.720000 | 26.00 | -7.3 | 46.0 | 20.0 | --- | 100.0 | 29.00 | VERTICAL | | 516.940000 | 26.10 | -1.4 | 46.0 | 19.9 | --- | 100.0 | 42.00 | VERTICAL | | 994.180000 | 34.90 | 7.7 | 54.0 | 19.1 | --- | 100.0 | 162.00 | VERTICAL | |
| Frequency MHz | Level dB μ V/m | Transd dB | Limit dB μ V/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39.700000 | 22.50 | -10.1 | 40.0 | 17.5 | --- | 100.0 | 134.00 | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55.220000 | 18.00 | -9.2 | 40.0 | 22.0 | --- | 100.0 | 189.00 | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 222.060000 | 17.90 | -9.8 | 46.0 | 28.1 | --- | 100.0 | 357.00 | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 297.720000 | 26.00 | -7.3 | 46.0 | 20.0 | --- | 100.0 | 29.00 | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 516.940000 | 26.10 | -1.4 | 46.0 | 19.9 | --- | 100.0 | 42.00 | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 994.180000 | 34.90 | 7.7 | 54.0 | 19.1 | --- | 100.0 | 162.00 | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polarization: | | Horizontal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Level [dB μ V/m] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <thead> <tr> <th>Frequency MHz</th><th>Level dBμV/m</th><th>Transd dB</th><th>Limit dBμV/m</th><th>Margin dB</th><th>Det.</th><th>Height cm</th><th>Azimuth deg</th><th>Polarization</th><th></th></tr> </thead> <tbody> <tr><td>51.340000</td><td>20.30</td><td>-8.8</td><td>40.0</td><td>19.7</td><td>---</td><td>100.0</td><td>132.00</td><td>HORIZONTAL</td><td></td></tr> <tr><td>59.100000</td><td>17.40</td><td>-9.8</td><td>40.0</td><td>22.6</td><td>---</td><td>100.0</td><td>291.00</td><td>HORIZONTAL</td><td></td></tr> <tr><td>196.840000</td><td>18.50</td><td>-9.8</td><td>43.5</td><td>25.0</td><td>---</td><td>100.0</td><td>360.00</td><td>HORIZONTAL</td><td></td></tr> <tr><td>297.720000</td><td>27.00</td><td>-7.3</td><td>46.0</td><td>19.0</td><td>---</td><td>100.0</td><td>119.00</td><td>HORIZONTAL</td><td></td></tr> <tr><td>534.400000</td><td>26.80</td><td>-1.1</td><td>46.0</td><td>19.2</td><td>---</td><td>100.0</td><td>356.00</td><td>HORIZONTAL</td><td></td></tr> <tr><td>932.100000</td><td>35.80</td><td>7.1</td><td>46.0</td><td>10.2</td><td>---</td><td>100.0</td><td>67.00</td><td>HORIZONTAL</td><td></td></tr> </tbody> </table> | | | | | | | | | | Frequency MHz | Level dB μ V/m | Transd dB | Limit dB μ V/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization | | 51.340000 | 20.30 | -8.8 | 40.0 | 19.7 | --- | 100.0 | 132.00 | HORIZONTAL | | 59.100000 | 17.40 | -9.8 | 40.0 | 22.6 | --- | 100.0 | 291.00 | HORIZONTAL | | 196.840000 | 18.50 | -9.8 | 43.5 | 25.0 | --- | 100.0 | 360.00 | HORIZONTAL | | 297.720000 | 27.00 | -7.3 | 46.0 | 19.0 | --- | 100.0 | 119.00 | HORIZONTAL | | 534.400000 | 26.80 | -1.1 | 46.0 | 19.2 | --- | 100.0 | 356.00 | HORIZONTAL | | 932.100000 | 35.80 | 7.1 | 46.0 | 10.2 | --- | 100.0 | 67.00 | HORIZONTAL | |
| Frequency MHz | Level dB μ V/m | Transd dB | Limit dB μ V/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 51.340000 | 20.30 | -8.8 | 40.0 | 19.7 | --- | 100.0 | 132.00 | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59.100000 | 17.40 | -9.8 | 40.0 | 22.6 | --- | 100.0 | 291.00 | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 196.840000 | 18.50 | -9.8 | 43.5 | 25.0 | --- | 100.0 | 360.00 | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 297.720000 | 27.00 | -7.3 | 46.0 | 19.0 | --- | 100.0 | 119.00 | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 534.400000 | 26.80 | -1.1 | 46.0 | 19.2 | --- | 100.0 | 356.00 | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 932.100000 | 35.80 | 7.1 | 46.0 | 10.2 | --- | 100.0 | 67.00 | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

6. TEST SETUP PHOTOS OF THE EUT

Radiated Emissions



7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the test report No.: TRE1805021401.

-----End of Report-----