

FCC Test Report

| | | | | |
|---|------------------------------|--|-------------------|--|
| Report Number | KSQ-FCC150510 | | | |
| Applicant | Company Name | DUALi Inc. | | |
| | Address | 1-309 Innoplex, 306 Sinwon-ro, Yeongtong-gu, Suwon, Gyeonggi-do, Korea | | |
| Product | Product Name | Smart Card Reader | | |
| | Model Name | DE-ABCM-DC | | |
| | FCC ID | SWUDEABCMDC | | |
| | IC ID | 9445A-DEABCMDC | | |
| | Manufacturer | DUALi Inc. | | |
| | Serial No. | - | Country of origin | Korea |
| Other | Receipt Date | 2015.04.01 | Receipt Number | KSQ-2015-N-0405 |
| | Issued Date | 2015.05.18 | Tested Date | 2015.04.16 ~ 2014.04.20 |
| Standard | FCC CFR 47 Part 15 Subpart C | | | |
| Tested by | Kwang Min, Lee | | | (sign)  |
| Approved by | Yeoung Ryul, Jo | | | (sign)  |
| <h2>Korea Standard Quality Laboratories</h2> <p>#102, Jangduk-Dong, Hwasung-City, Kyunggi-Do, KOREA.</p> | | | | |
| <p>o This is certified that the above mentioned products have been tested for the sample provided by client.</p> <p>o No part of this document may not be duplicated or reproduced by any means without the express written permission of Korea Standard Quality Laboratories</p> | | | | |

Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|------------|---------------|-------------------|
| - | 2015.05.18 | Initial Issue | Kwang Min, Lee |
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1. APPLICANT AND MANUFACTURER INFORMATION

Applicant Name : DUALi Inc.
Address : 1-309 Innoplex, 306 Sinwon-ro, Yeongtong-gu, Suwon, Gyeonggi-do, Korea
Manufacturer : : DUALi Inc.
Address : 1-309 Innoplex, 306 Sinwon-ro, Yeongtong-gu, Suwon, Gyeonggi-do, Korea

2. TEST RESULT CERTIFICATION

2.1 Applicable standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.225
- ANSI C63.4-2003

| Applied standard : FCC Part15 subpart C | | | | |
|---|------------------|-----------------------------|--------|---------|
| TEST Standard Clause | | Test Item | Result | Remarks |
| Part 15 Subpart C | RSS 210 : issue8 | | | |
| 15.225(a) (b) (c) (d) 15.209 | RSS 210 (A2.6) | Radiated Emissions | Pass | - |
| 15.225(e) | RSS 210 (A2.6) | Frequency Stability | Pass | - |
| 15.207 | RSS Gen(7.2.2) | Conducted Emissions Voltage | Pass | - |
| - | RSS 210(5.9.1) | Occupied Bandwidth | Pass | - |

3. LABORATORY INFORMATION

3.1 General

Korea Standard Quality Laboratories

#102, Jangduk-Dong, Hwasung-City, Kyunggi-Do, KOREA

The open area field test site and conducted measurement facility are used for these testing. This site at was fully described in a reports submitted to the Federal Communications Commission (FCC).

The Federal Communications Commission (FCC) has the reports on file and Korea Standard Quality Laboratories. is listed under FCC Registration No.100384. The test site has been approved by the FCC for public use and is List in the FCC Public Access Link CORES (Commission Registration System)

3.2 Test Site

- Korea Standard Quality Laboratories

3.3 Location

Korea Standard Quality Laboratories

- #102, Jangduk-Dong, Hwasung-City, Kyunggi-Do, Korea

4. EUT INFORMATION

| | |
|-----------------------------|--|
| Equipment Class | DXX - Low Power Communication Device Transmitter |
| Product name | Smart Card Reader |
| Model name | DE-ABCM-DC |
| Power source | DC 5.0 V |
| Frequency range | 13.560 MHz |
| Modulation Technique | ASK |
| Antenna Type | Integral loop antenna |
| Dimensions(W×L×T) | 70(H) mm * 45(W) mm * 8(T) mm |

4.1 Family Model

-. None

4.2 EUT Modifications

-. None

4.3 Antenna Requirement

For intentional device, according to §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.

Antenna Construction:

The transmitter antenna of the EUT is an internal antenna in the EUT, so there is no consideration of replacement by the user.

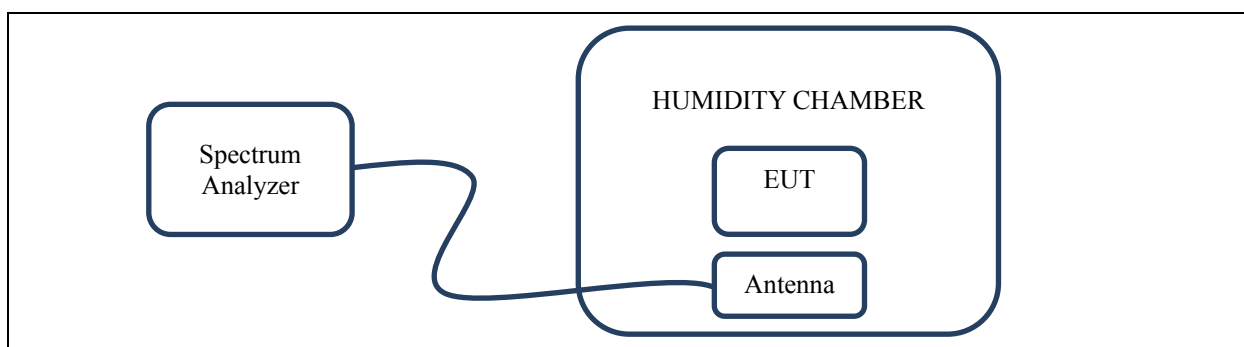
5. Measurement conditions

5.1 Description of test modes

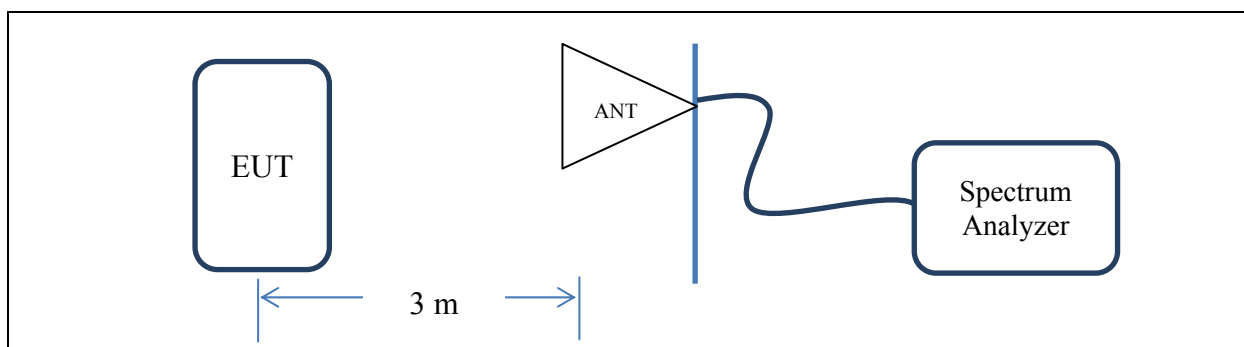
- The EUT had been tested under the operating condition.
- There are one channels have been tested as following:

| Channel | Frequency (MHz) |
|-------------|-----------------|
| Fundamental | 13.560 |

5.2 Description of test configuration



[System Block Diagram of Test Configuration 1]



[System Block Diagram of Test Configuration 2]

5.3 Setup of equipment under test

5.3.1. Description of support units

- The EUT has been tested as an independent unit along with the following necessary Accessories or support units, which are adopted to form a representative test configuration.

| No. | Equipment | Manufacturer | Model | Note |
|-----|-------------------|--------------|------------|------|
| 1 | Smart Card Reader | DUALi Inc. | DE-ABCM-DC | EUT |

6. Antenna Requirement

Requirement(s): 47 CFR §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.

Antenna requirement must meet at least one of the following:

- a) Antenna must be permanently attached to the device.
 - b) Antenna must use a unique type of connector to attach to the device.
 - c) Device must be professionally installed. Installer shall be responsible for ensuring that the correct antenna is employed with the device.
- 1) The RFID antenna is integral to the main board permanently to the device which meets the requirement (See Internal Photographs submitted as another Exhibit).

7. Limite And Result

7.1 Radiated Electric Field Emissions

7.1.1 Regulation

According to §15.225(a), The field strength of any emissions within the band 13.553 MHz ~ 13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

According to §15.225(b), Within the bands 13.410 MHz ~ 13.553 MHz and 13.567 MHz ~ 13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

According to §15.225(c) Within the bands 13.110 MHz ~ 13.410 MHz and 13.710 MHz ~ 14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

7.1.2 Test Condition

- The EUT is placed on a turntable, which is 0.8m above ground plane.
- Three orientation for the EUT were tried to find out which orientation produces the worst emissions.
- The loop antenna was also moved around to find out worst position for the emissions.
- Set RBW of Spectrum analyzer to 9 kHz, VBW = 300 kHz, Sweep = auto
- The field strength of any emissions within the band 13.553 MHz ~ 13.567 MHz shall not exceed 15,848 $\mu\text{V/m}$ at 30 meters.

7.1.3 Test result

| Table 1 : Measured values of the Radiated Electric Field Emissions | | | | | | | | |
|--|--------------------|-------------------------|----------------------------------|---------------------------------|----------------------------------|-------------------------------|---------------------------------|---------|
| Frequency (MHz) | Polarization (V/H) | Cable Loss +Ant. Factor | Reading dB $\mu\text{V/m}$ @ 3 m | Actual dB $\mu\text{V/m}$ @ 3 m | Actual dB $\mu\text{V/m}$ @ 30 m | Actual $\mu\text{V/m}$ @ 30 m | Limit ($\mu\text{V/m}$) | Verdict |
| 13.226 | H | 14.79 | 24.31 | 39.10 | -0.90 | 1.10 | < 106 $\mu\text{V/m}$ @ 30 m | PASS |
| 13.357 | V | 14.78 | 36.83 | 51.61 | 11.61 | 3.80 | | PASS |
| 13.553 | H | 14.78 | 33.98 | 48.76 | 8.76 | 2.74 | < 334 $\mu\text{V/m}$ @ 30 m | PASS |
| 13.478 | V | 14.76 | 37.56 | 52.32 | 12.32 | 4.13 | | PASS |
| 13.560 | H | 14.76 | 48.91 | 63.67 | 29.75 | 30.72 | < 15,848 $\mu\text{V/m}$ @ 30 m | PASS |
| 13.560 | V | 14.76 | 47.10 | 61.86 | 21.86 | 12.38 | | PASS |
| 13.567 | H | 14.76 | 35.98 | 50.74 | 10.74 | 3.44 | < 334 $\mu\text{V/m}$ @ 30 m | PASS |
| 13.567 | V | 14.76 | 36.77 | 51.53 | 11.53 | 3.77 | | PASS |
| 13.870 | H | 14.72 | 23.20 | 37.92 | -2.08 | 0.78 | < 106 $\mu\text{V/m}$ @ 30 m | PASS |
| 14.008 | V | 14.71 | 37.46 | 52.17 | 12.17 | 4.05 | | PASS |

7.2 Radiated Electric Field Emissions

7.2.1 Regulation

According to §15.225(d), The field strength of any emissions appearing outside of the 13.110 MHz ~ 14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

According to §15.209(a), for an intentional device, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency (MHz) | Field strength (μV/m) | Field strength (dBμV/m) | Measurement distance (meters) |
|-----------------|-----------------------|-------------------------|-------------------------------|
| 0.009 ~ 0.490 | 2 400/F(kHz) | - | 300 |
| 0.490 ~ 1.705 | 24 000/F(kHz) | - | 30 |
| 1.705 ~ 30 | 30 | 29.5 | 30 |
| 30 ~ 88 | 100 | 40.0 | 3 |
| 88 ~ 216 | 150 | 43.5 | 3 |
| 216 ~ 960 | 200 | 46.0 | 3 |
| Above 960 | 500 | 54.0 | 3 |

According to §15.109(a), for an unintentional device, except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the above table.

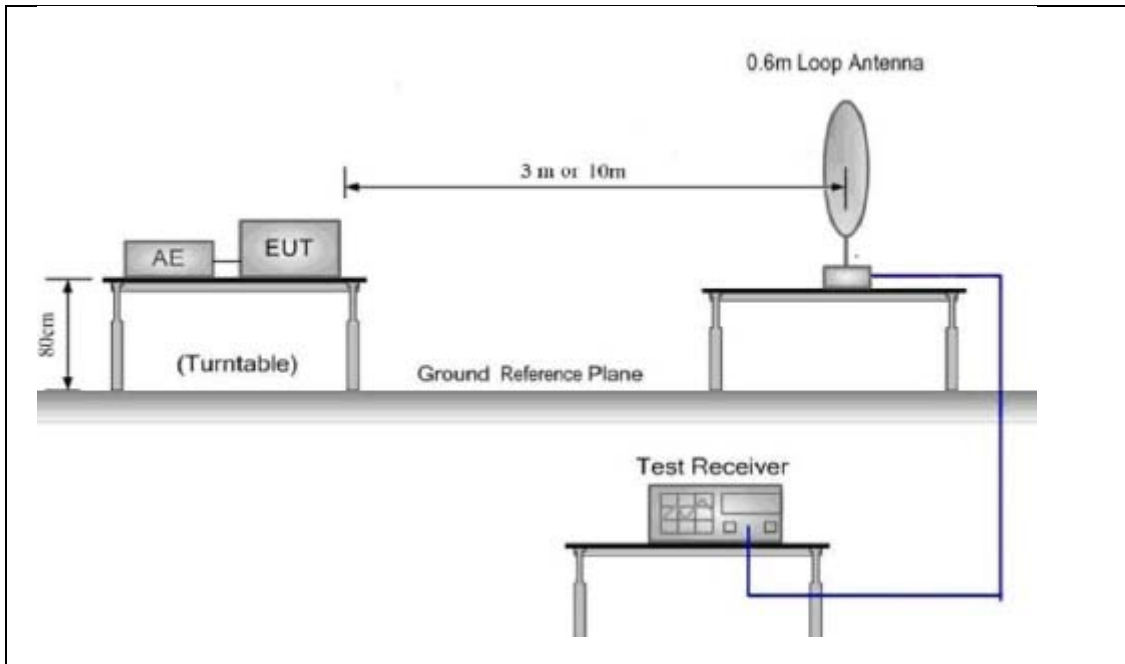
** The emission limits shown in the above table are based on measurement instrumentation employing a CISPR quasi-peak detector and above 1 000 MHz are based on the average value of measured emissions.

7.2.2 Test Procedure

1. The preliminary radiated measurements were performed to determine the frequency producing the maximum emissions in an anechoic chamber at a distance of 3 meters for above 30 MHz, and at 1 meter distance for below 30 MHz.
2. The EUT was placed on the top of the 0.8 meter height, (1 × 1.5) meter non-metallic table. To find the maximum emission levels, the height of a measuring antenna was changed and the turntable was rotated 360°.
3. The antenna polarization was also changed from vertical to horizontal. The spectrum was scanned from 9 kHz to 30 MHz using the loop antenna, from 30 MHz to 1 000 MHz using the Trilog broadband antenna, and from 1 GHz to tenth harmonic of the highest fundamental frequency using the horn antenna.
4. To obtain the final measurement data, the EUT was arranged on a turntable situated on a (4 × 4) meter at the Open Area Test Site. The EUT was tested at a distance 3 meters.
5. Each frequency found during preliminary measurements was re-examined and investigated. The test-receiver system was set up to average, peak, and quasi-peak detector function with specified bandwidth.
6. The EUT is situated in three orthogonal planes (if appropriate)
7. The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT.
8. If the emission on which a radiated measurement must be made is located at the edge of the authorized band of operation, then the alternative “marker-delta” method may be employed.

7.2.3 Test Setup Layout

7.2.3.1 Radiated Emission Test Set-Up, Frequency Below 30 MHz



7.2.3.2 Radiated Emission Test Set-UP Frequency Below 1 000 MHz

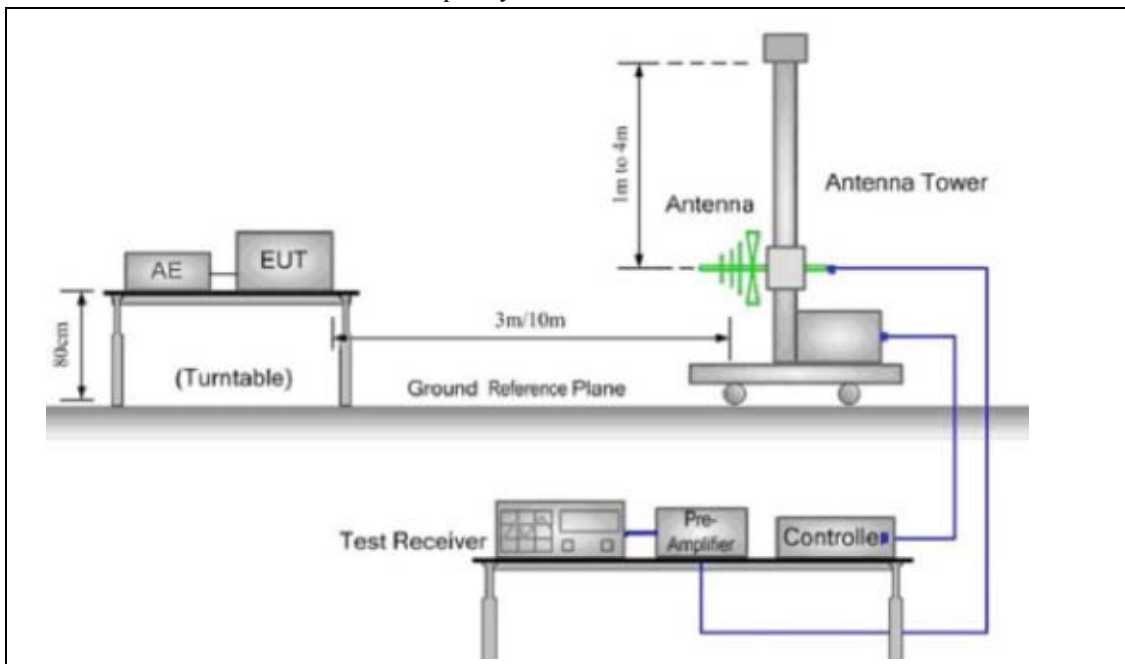


Table 3 : Measured values of the Radiated Electric Field Emissions

| Frequency (MHz) | Detect Mode | Polarization (V/H) | Emission Level (dBμV/m) | Limit (dBμV/m) @ 3m | Margin (dB) |
|-----------------|-------------|--------------------|-------------------------|---------------------|-------------|
| 0.012 | Quasi-peak | H | 64.80 | 69.50 | 4.70 |
| 4.38 | Quasi-peak | V | 56.56 | 69.50 | 12.94 |
| 32.60 | Quasi-peak | V | 37.44 | 40.00 | 2.56 |
| 257.13 | Quasi-peak | H | 30.51 | 46.00 | 15.49 |
| 400.30 | Quasi-peak | V | 35.16 | 46.00 | 10.84 |
| 450.51 | Quasi-peak | H | 35.13 | 46.00 | 10.87 |

Note.

1. Margin (dB) = Limit – Emission Level
2. H = Horizontal, V = Vertical Polarization

7.3 Frequency Stability

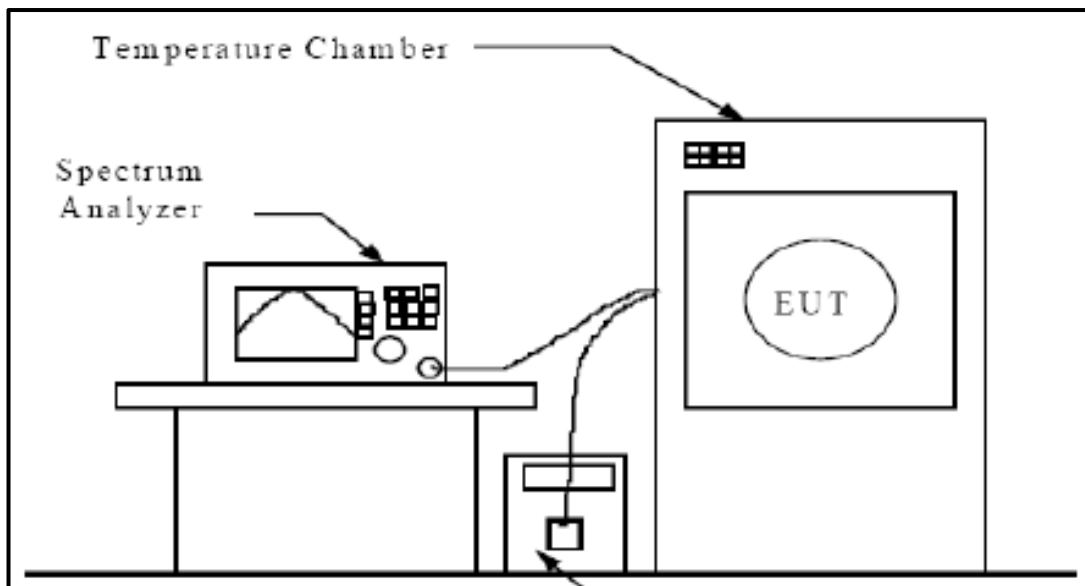
7.3.1 Regulation

According to §15.225(e), The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85 % to 115 % of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

7.3.2 Test Condition

1. Frequency stability vs. temperature measurement
 - The EUT was placed into the constant temperature chamber.
 - The spectrum analyzer was used to read the EUT operating frequency.
 - Set the constant temperature chamber temperature within the range of -20 °C to +50 °C
2. Frequency stability vs. input voltage measurement
 - The EUT was placed into the constant temperature chamber and set the temperature to 20 °C.
 - The spectrum analyzer was used to read the EUT operating frequency.
 - The EUT is powered with the DC Power Supplied it with 85 % and 115 % voltage, and measured the EUT operating frequency.

7.3.3 Test Setup Layout



7.3.4 Test result

| Table 4 : Measured values of the Frequency Stability | | | | | |
|--|----------------|------------|-------------|------------|---|
| Frequency (Hz) | Test Data (Hz) | | | | Limit (Hz) |
| | -20°C | -10°C | 0°C | +10°C | |
| 13 560 000 | 13 560 022 | 13 560 031 | 13 560 043 | 13 560 064 | ± 1 356 Hz (13 559 644 Hz ~ 13 562 356 Hz) |
| | +20°C | +30°C | +40°C | +50°C | |
| | 13 560 077 | 13 560 086 | 13 560 098 | 13 560 122 | |
| | Test Voltage | | | | |
| | Power 85 % | | Power 115 % | | |
| | 13 560 031 | | 13 560 126 | | |

*Note

- Limit : Operating frequency X (\pm) 0.000 1 = (\pm) 1 356 Hz
- Within the band : 13 559 644 Hz \sim 13 562 356 Hz

7.4. Conducted Emissions Voltage

7.4.1. Regulation

According to §15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| Frequency of emission (MHz) | Conducted limit (dB μ V) | |
|-----------------------------|------------------------------|------------|
| | Quasi-peak | Average |
| 0.15 – 0.5 | 66 to 56 * | 56 to 46 * |
| 0.5 – 5 | 56 | 46 |
| 5 – 30 | 60 | 50 |

* Decreases with the logarithm of the frequency.

According to §15.107(a), for unintentional device, except for Class A digital devices, line conducted emission limits are the same as the above table.

7.4.2. Test Procedure

1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
2. Each current-carrying conductor of the EUT power cord was individually connected through a 50 Ω / 50 μ H LISN, which is an input transducer to a Spectrum Analyzer or an EMI/Field Intensity Meter, to the input power source.
3. Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
4. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
5. The measurements were made with the detector set to PEAK amplitude within a bandwidth of 10 kHz or to QUASI-PEAK and AVERAGE within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

7.4.3. Test Results

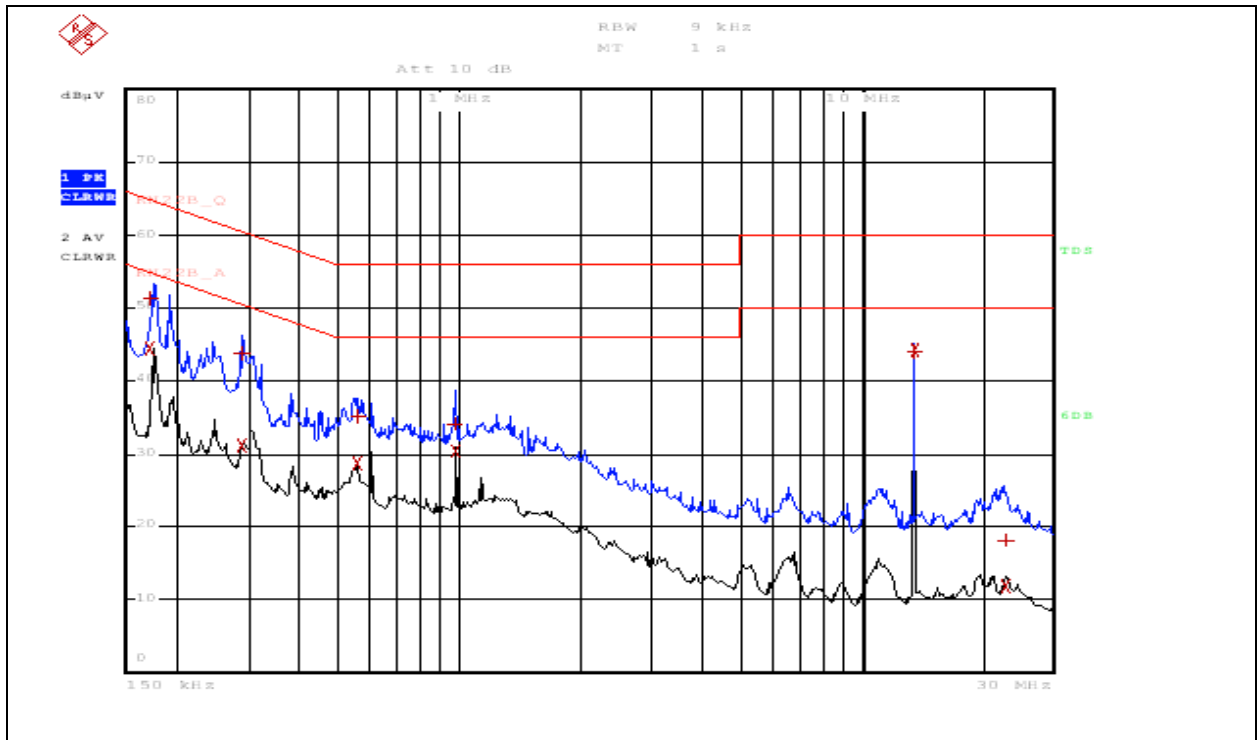
| Table 5-1 : Measured values of the AC Power Line Conducted Emissions | | | | | | | | |
|--|-------------|-------------------|-----------------------|------------------------|-----------------|-----------------------|--------------|-------------|
| Frequency (MHz) | Detect Mode | Hot/Neutral (H/N) | Measured Value (dBμV) | Correction Factor (dB) | Cable Loss (dB) | Emission Level (dBμV) | Limit (dBμV) | Margin (dB) |
| 0.17 | Peak | H | 40.86 | 9.86 | 0.58 | 51.30 | 64.96 | 13.66 |
| | Average | | 33.88 | | | 44.32 | 54.96 | 10.64 |
| 0.17 | Peak | N | 40.66 | 9.92 | 0.58 | 51.16 | 64.96 | 13.80 |
| | Average | | 34.50 | | | 45.00 | 54.96 | 9.96 |
| 0.28 | Peak | H | 33.60 | 9.52 | 0.57 | 43.69 | 60.82 | 17.13 |
| | Average | | 21.10 | | | 31.19 | 50.82 | 19.63 |
| 0.28 | Peak | N | 33.90 | 9.59 | 0.57 | 44.06 | 60.82 | 16.76 |
| | Average | | 22.73 | | | 32.89 | 50.82 | 17.93 |
| 0.55 | Peak | H | 24.79 | 9.70 | 0.58 | 35.06 | 56.00 | 20.94 |
| | Average | | 18.47 | | | 28.74 | 46.00 | 17.26 |
| 0.55 | Peak | N | 25.73 | 9.79 | 0.58 | 36.09 | 56.00 | 19.91 |
| | Average | | 19.74 | | | 30.10 | 46.00 | 15.90 |
| 0.97 | Peak | H | 23.94 | 9.59 | 0.61 | 34.13 | 56.00 | 21.87 |
| | Average | | 20.11 | | | 30.30 | 46.00 | 15.70 |
| 0.97 | Peak | N | 24.09 | 9.68 | 0.61 | 34.37 | 56.00 | 21.63 |
| | Average | | 19.68 | | | 29.96 | 46.00 | 16.04 |
| 22.80 | Peak | N | 11.09 | 9.64 | 1.17 | 21.90 | 60.00 | 38.10 |
| | Average | | 3.38 | | | 14.19 | 50.00 | 35.81 |
| 22.83 | Peak | H | 7.55 | 9.52 | 1.17 | 18.24 | 60.00 | 41.76 |
| | Average | | 1.15 | | | 11.84 | 50.00 | 38.16 |

1. Margin (dB) = Limit – Emission Level

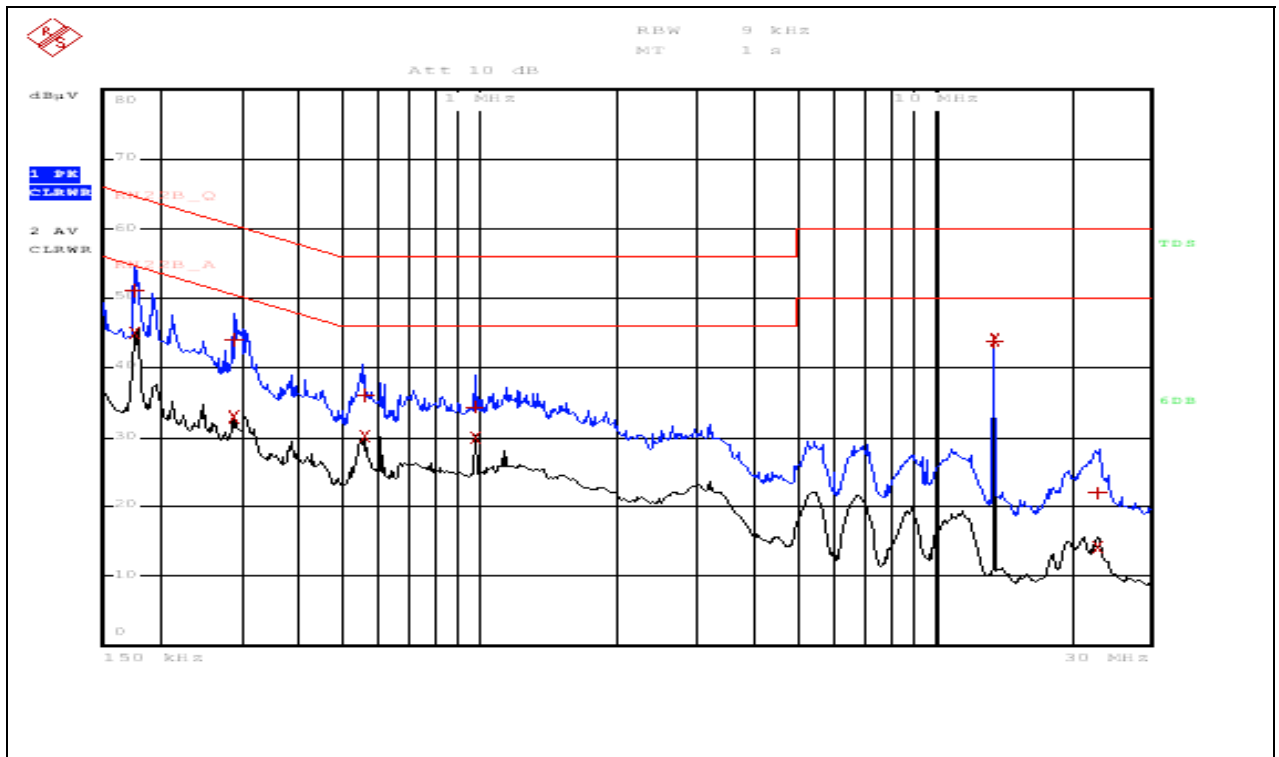
2. Emission Level = Measured Value + CF + CL

7.4.4. Graph of the Conducted Emissions Voltage

HOT LINE



NEUTRAL LINE



7.5. Occupied Bandwidth

Requirement(s): RSS-210 (5.9.1)

Procedures: Occupied Bandwidth was measured according to RSS-210 (5.9.1). Measurement was taken with spectrum analyzer. The spectrum analyzer bandwidth and span was set to read in hertz.

| Frequency | Occupied Bandwidth (99%) |
|------------|--------------------------|
| 13.560 MHz | 0.741 kHz |

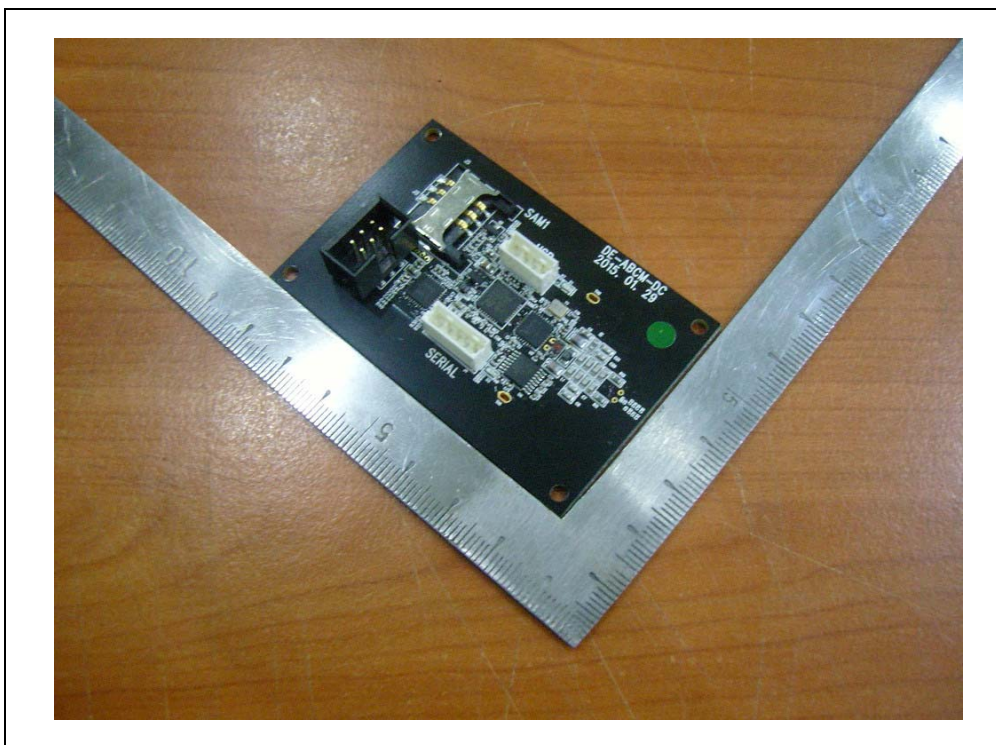
8. TEST EQUIPMENT USED FOR TEST

| No. | Test Equipment | Manufacturer | Model No. | Next Cal. Data | calibration interval | Used equipment |
|-----|--------------------------|--------------------|-----------|----------------|----------------------|----------------|
| 1 | Spectrum Analyzer | Agilent | E4440A | 15.11.11 | 1 year | ■ |
| 2 | Frequency Counter | HP | 5350B | 15.06.02 | 1 year | ■ |
| 3 | DC Power Supply | ALINCO | DM-340MV | 15.06.02 | 1 year | ■ |
| 4 | Signal Generator | Leader Electronics | 3220 | 15.06.01 | 1 year | □ |
| 5 | Synthesized CW Generator | HP | 83711B | 15.06.01 | 1 year | □ |
| 6 | SYNTHESIZED SWEEPER | HP | 8340B | 15.05.07 | 1 year | ■ |
| 7 | Function Generator | IWATSU | SG-4105 | 15.04.29 | 1 year | □ |
| 8 | Modulation Analyzer | Agilent | 8901B | 15.06.02 | 1 year | □ |
| 9 | Audio Analyser | Agilent | 8903B | 15.06.02 | 1 year | □ |
| 10 | Power Meter | Agilent | E4418B | 15.06.01 | 1 year | □ |
| 11 | Power Sensor | HP | 8485A | 15.06.27 | 1 year | □ |
| 12 | Power Sensor | Agilent | 8482B | 15.06.29 | 1 year | □ |
| 13 | Pre Amplifier | GTC | GA-1825A | 15.06.01 | 1 year | □ |
| 14 | Attenuator | Weinschel | 53-30-33 | 16.04.09 | 1 year | □ |
| 15 | Step Attenuator | Agilent | 8494B | 15.06.01 | 1 year | □ |
| 17 | Step Attenuator | Agilent | 8495B | 15.06.01 | 1 year | □ |
| 18 | Step Attenuator | Agilent | 8496B | 15.06.01 | 1 year | □ |
| 19 | Attenuator | HP | 8493C | 15.05.19 | 1 year | □ |
| 20 | Attenuator | HP | 30dB | 16.04.09 | 1 year | □ |
| 21 | Attenuator | TAE SUNG | SMA-1 | 15.06.01 | 1 year | □ |

| | | | | | | |
|----|-------------------------|----------------|--------------|----------|---------|-------------------------------------|
| 22 | Attenuator | TAE SUNG | SMA-2 | 15.06.01 | 1 year | <input type="checkbox"/> |
| 23 | Termination | KWANG YEOK | KYTE-NJ-150W | 15.06.01 | 1 year | <input type="checkbox"/> |
| 24 | Bluetooth Tester | TESCOM | TC-3000A | 15.06.01 | 1 year | <input type="checkbox"/> |
| 25 | Loop ANT. | Com-Power | AL-130 | 15.04.25 | 2 years | <input checked="" type="checkbox"/> |
| 26 | Horn ANT. | SCHWARZBECK | BBHA 9120D | 16.07.21 | 2 years | <input type="checkbox"/> |
| 27 | Temp & Humidity Chamber | Seoksan Tech | SE-CT-02 | 15.06.02 | 1 year | <input checked="" type="checkbox"/> |
| 28 | Vibration Tester | Gana | GNV-400 | 15.06.19 | 1 year | <input type="checkbox"/> |
| 29 | Drop Tester | Self-made | DOC-800 | N/A | N/A | <input type="checkbox"/> |
| 30 | Power Divider | Agilent | 11636B | 15.06.19 | 1 year | <input type="checkbox"/> |
| 31 | Power Divider | Agilent | 11636B | 15.06.19 | 1 year | <input type="checkbox"/> |
| 32 | RMS Multimeter | RMS Multimeter | FLUKE87 | 15.06.02 | 1 year | <input checked="" type="checkbox"/> |
| 33 | TEST RECEIVER | ROHDE&SCHWARZ | 101014 | 15.08.05 | 1 year | <input checked="" type="checkbox"/> |
| 34 | Bi-log Antenna | SCHWARZBECK | VULB9160 | 15.11.21 | 2 years | <input checked="" type="checkbox"/> |

9. EUT Photographs

9.1 Front view



9.2 Back view

