



FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Applicant: Vcom International Multi-media Corp

Address: 80 Little Falls Road, Fairfield, NEW JERSEY 07004, USA

Product Name: ASSISTIVE LISTENING SYSTEM

Model Name: ALS-600RF

Brand Name: Hamilton Buhl

FCC ID: 2AAPAALS-600XTR

Report No.: DPH130709F01

Date of Issue: August 07, 2013

Issued by: Shenzhen Top-cert Service Co., Ltd.

**Address: Room 506, Hongyu Commercial Building, Gushu 2nd Road,
Baoan District, Shenzhen, China**

Tel: 0755-61196328

Fax: 0755-61196328

E-mail: service@top-cert.com

Web: www.top-cert.com

The report consists 36 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by Top-cert. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver.

TABLE OF CONTENTS

| | |
|---|-----------|
| 1. VERIFICATION OF CONFORMITY | 3 |
| 2. GENERAL INFORMATION | 4 |
| 2.1 Product Information | 4 |
| 2.2 OBJECTIVE | 5 |
| 2.3 TEST STANDARDS AND RESULTS | 5 |
| 2.4 ENVIRONMENTAL CONDITIONS | 5 |
| 3. TEST FACILITY | 6 |
| 4. SETUP OF EQUIPMENT UNDER TEST | 8 |
| 5. 47 CFR Part 15C 15.249 Requirements | 10 |
| 5.1 SPURIOUS EMISSION TEST | 10 |
| 5.2 20dB Bandwidth | 17 |
| 5.3 LINE CONDUCTED EMISSION TEST | 19 |
| APPENDIX 1 | 24 |
| PHOTOGRAPHS OF TEST SETUP | 24 |
| APPENDIX 2 | 26 |
| PHOTOGRAPHS OF EUT | 26 |

| Revision History | | |
|------------------|----------------|---------------------------------|
| Issue | Date | Reason for Revision |
| 1.0 | July 17, 2013 | First edition |
| 1.1 | August 7, 2013 | Correct radiated emission limit |

1. VERIFICATION OF CONFORMITY

| | |
|----------------------------------|--|
| Equipment Under Test: | ASSISTIVE LISTENING SYSTEM |
| Brand Name: | Hamilton Buhl |
| Model Number: | ALS-600 RF |
| Series Model Name: | N/A |
| Difference description: | N/A |
| FCC ID: | 2AAPAALS-600XTR |
| Applicant: | Vcom International Multi-media Corp |
| | 80 Little Falls Road, Fairfield, NEW JERSEY 07004, USA |
| Manufacturer: | Enping Jin Jue Electronics Co.,Ltd. |
| | No.39-2 Xinping Nroth Road, enping city, Guangdong Province, China |
| Technical Standards: | 47 CFR Part 15 Subpart C |
| File Number: | DPH130705F01 |
| Date of test: | July 01, 2013 ~ August 07, 2013 |
| Deviation: | August 07, 2013 |
| Condition of Test Sample: | Normal |
| Test Result: | PASS |

The above equipment was tested by Shenzhen Top-cert Service Co., Ltd. for compliance with the requirement set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

Rex Luo

Rex Luo

Test Engineer



Approved by (+ signature):

Joe Jia

Joe Jia

Manager

2. GENERAL INFORMATION

2.1 Product Information

| | |
|-------------------|-----------------------------------|
| Product | ASSISTIVE LISTENING SYSTEM |
| Trade Name | Hamilton Buhl |
| Model Number | ALS-600 RF |
| Power Supply | DC 12V by AC/DC adapter 120V~60Hz |
| Frequency Range | 75.5MHz |
| Modulation Type | FM |
| Antenna Type: | Telescopic Antenna |
| Channel Spacing: | N/A |
| Channel Number | 1 Channel (75.5 MHz) |
| Temperature Range | -20°C ~ 50°C |

NOTE:

1. Please refer to Appendix I for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 OBJECTIVE

The objective of the report is to perform tests according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

| No. | Identity | Document Title |
|-----|---------------------------------|-------------------------|
| 1 | 47 CFR Part 15(10-1-05 Edition) | Radio Frequency Devices |

2.3 TEST STANDARDS AND RESULTS

Test items and the results are as bellow:

| No. | Section | Description | Result | Date of Test |
|-----|-----------|------------------------------------|--------|--------------|
| 1 | 15.237(c) | Spurious Emission | PASS | 2013-08-10 |
| 2 | 15.237(b) | Occupied Bandwidth | PASS | 2013-07-17 |
| 3 | 15.207 | Power Line Conducted Emission Test | PASS | 2013-07-16 |

Note: 1. The test result judgment is decided by the limit of measurement standard
2. The information of measurement uncertainty is available upon the customer's request.

2.4 ENVIRONMENTAL CONDITIONS

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

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

3. TEST FACILITY

3.1 TEST FACILITY

| | |
|-----------------------|---|
| Test Site: | Attestation of Global Compliance (Shenzhen) Co., Ltd. |
| Location: | 2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China |
| Description: | <p>There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009 and CISPR 16 requirements.</p> <p>The FCC Registration Number is 259865</p> <p>The IC Registration Number is 141296</p> <p>The CNAS Registration Number is CNAS L5488.</p> |
| Site Filing: | The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046. |
| Instrument Tolerance: | All measuring equipment is in accord with ANSI C63.4:2009 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency requirement. |
| Ground Plane: | Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. |

3.2 GENERAL TEST PROCEDURES

EUT Function and Test Mode

The EUT has been tested under normal operating (TX) and standby (RX) condition.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2009, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2009.

3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

- (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | | | |

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

4. SETUP OF EQUIPMENT UNDER TEST**4.1 SUPPORT EQUIPMENT**

| Device Type | Brand | Model | Series No. | Data Cable | Power Cord |
|-------------|-------|-------|------------|------------|------------|
| N/A | N/A | N/A | N/A | N/A | N/A |

Remark:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

| No. | Equipment | Manufacturer | Model No. | S/N | Calibration due date |
|-----|--------------------------------------|-------------------|----------------|------------|----------------------|
| 1 | Test Receiver | Rohde & Schwarz | ESCI | 100492 | 2014/03/09 |
| 2 | L.I.S.N. | Rohde & Schwarz | ENV216 | 100093 | 2014/03/09 |
| 3 | Coaxial Switch | Anritsu Corp | MP59B | 6200283933 | N/A |
| 4 | Terminator | Hubersuhner | 50Ω | No.1 | 2014/03/09 |
| 5 | RF Cable | SchwarzBeck | N/A | No.1 | N/A |
| 6 | Test Receiver | Rohde & Schwarz | ESPI | 101202 | 2014/03/09 |
| 7 | Test Antenna – Horn | Schwarzbeck | BBHA 9120C | -- | 2014/03/02 |
| 8 | Test Antenna – Bi-Log | Schwarzbeck | VULB 9163 | -- | 2014/03/02 |
| 9 | Power Splitter | Weinschel | 1506A | NW521 | N/A |
| 10 | Spectrum Analyzer | Agilent | 4408B | MY41440460 | 2014/03/09 |
| 11 | Cable | Resenberger | N/A | NO.1 | N/A |
| 12 | Cable | SchwarzBeck | N/A | NO.2 | N/A |
| 13 | Cable | SchwarzBeck | N/A | NO.3 | N/A |
| 14 | Signal Generator | IFR | 2032 | 203002/100 | 2014/03/09 |
| 15 | Universal Radio Communication Tester | ROHDE&SCHWARZ | CMU200 | 0304789 | 2014/03/09 |
| 16 | Telecommunication Antenna | European Antennas | PSA 75301R/170 | 0304213 | 2014/03/02 |
| 17 | DC Power Supply | Good Will | GPS-3030DD | EF920938 | 2014/03/09 |
| 18 | Full-Anechoic Chamber | Albatross | 9m*6m*6m | (n.a.) | 2014/03/09 |

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15C 15.237 Requirements

5.1 SPURIOUS EMISSION TEST

5.1.1 REQUIREMENT

According to FCC section 15.237(c):

The field strength within the permitted 200 kHz band shall not exceed 80 millivolts/meter at 3 meters. The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emissions limits specified in § 15.209. The emission limits in this paragraph are based on measurement instrumentation employing an average detector. The provisions in § 15.35 for limiting peak emissions apply.

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength ($\mu\text{V/m}$) | Measurement Distance (m) |
|-----------------|------------------------------------|--------------------------|
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

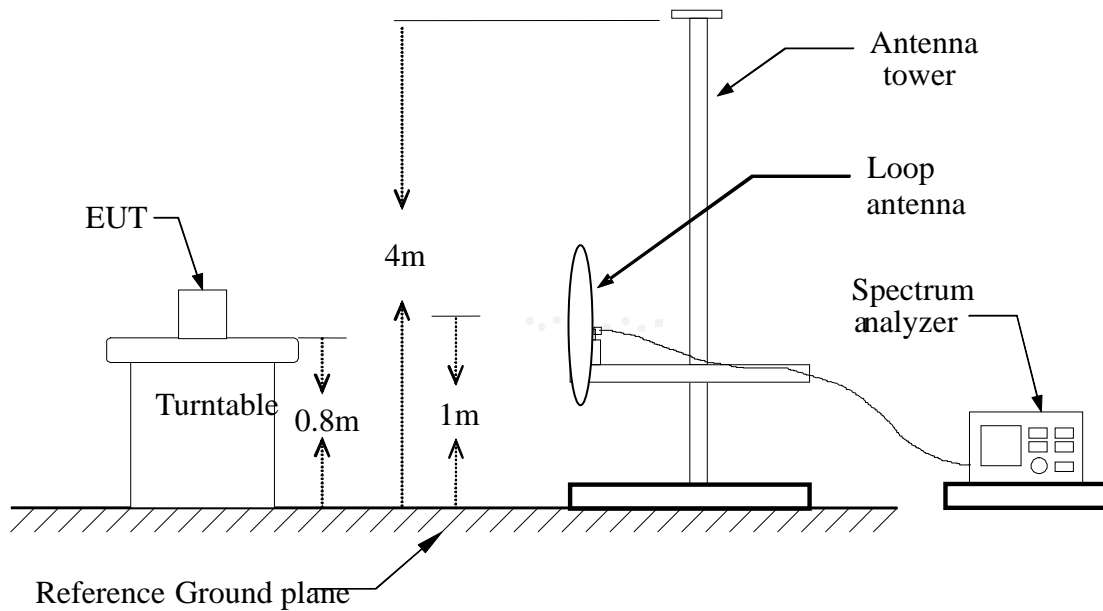
Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

In the above emission table, the tighter limit applies at the band edges.

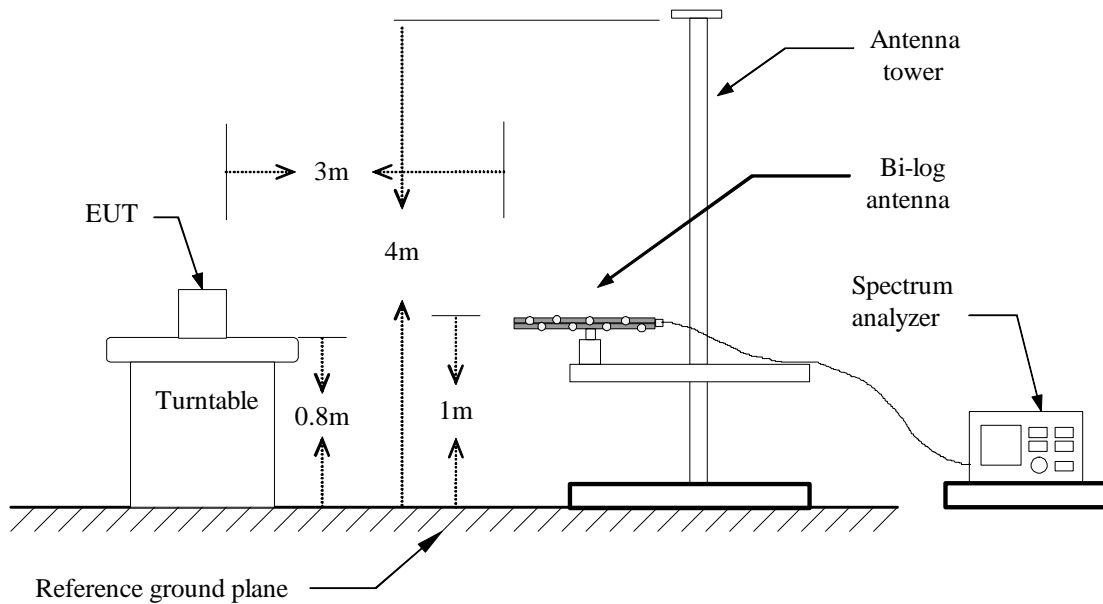
| Frequency (MHz) | Field Strength ($\mu\text{V/m}$) | Measurement Distance (m) |
|-----------------|------------------------------------|--------------------------|
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

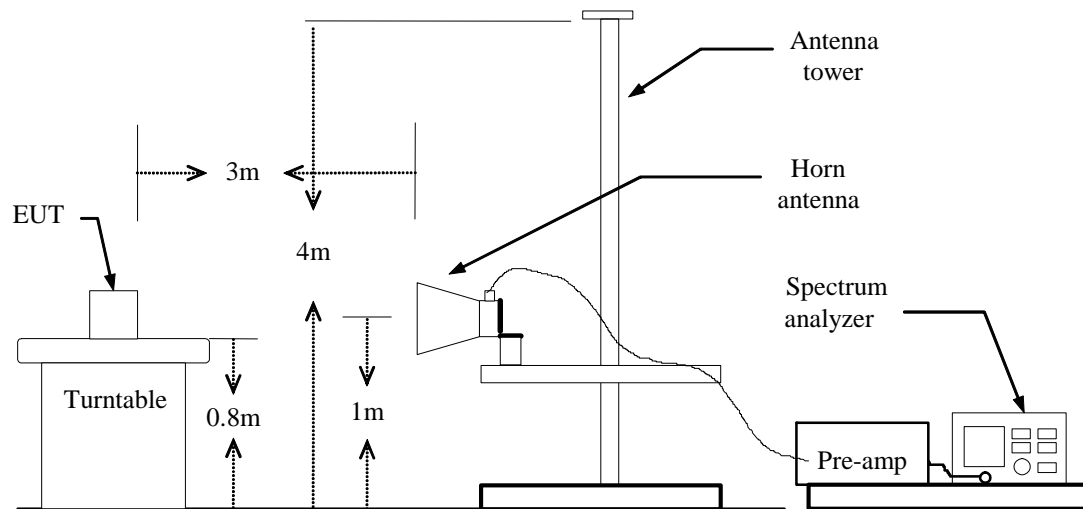
5.1.2 TEST DESCRIPTION

TEST SETUP:



Blow 1GHz:



Above 1GHz:**5.1.3 TEST DESCRIPTION**

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:
Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO
Above 1GHz : (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz / VBW=1MHz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

5.1.4 TEST RESULT**Form 9 KHz to 30MHz:**

| Freq. | Ant. Pol | Peak | Ant. / CL | Actual Fs | Peak | Peak |
|-------|----------|---------|-----------|-----------|----------|--------|
| (MHz) | H/V | Reading | CF | | Limit | Margin |
| | | (dBuV) | (dB) | Peak | (dBuV/m) | (dB) |
| | | | | (dBuV/m) | | |
| | H | | | | | |
| | H | | | | | |
| | H | | | | | |
| N/A | | | | | | >20 |
| | V | | | | | |
| | V | | | | | |
| | V | | | | | |
| N/A | | | | | | >20 |

Note: No test data was detected in below 30MHz.

Form 30 MHz to 1GHz:

Radiated Emission Measurement

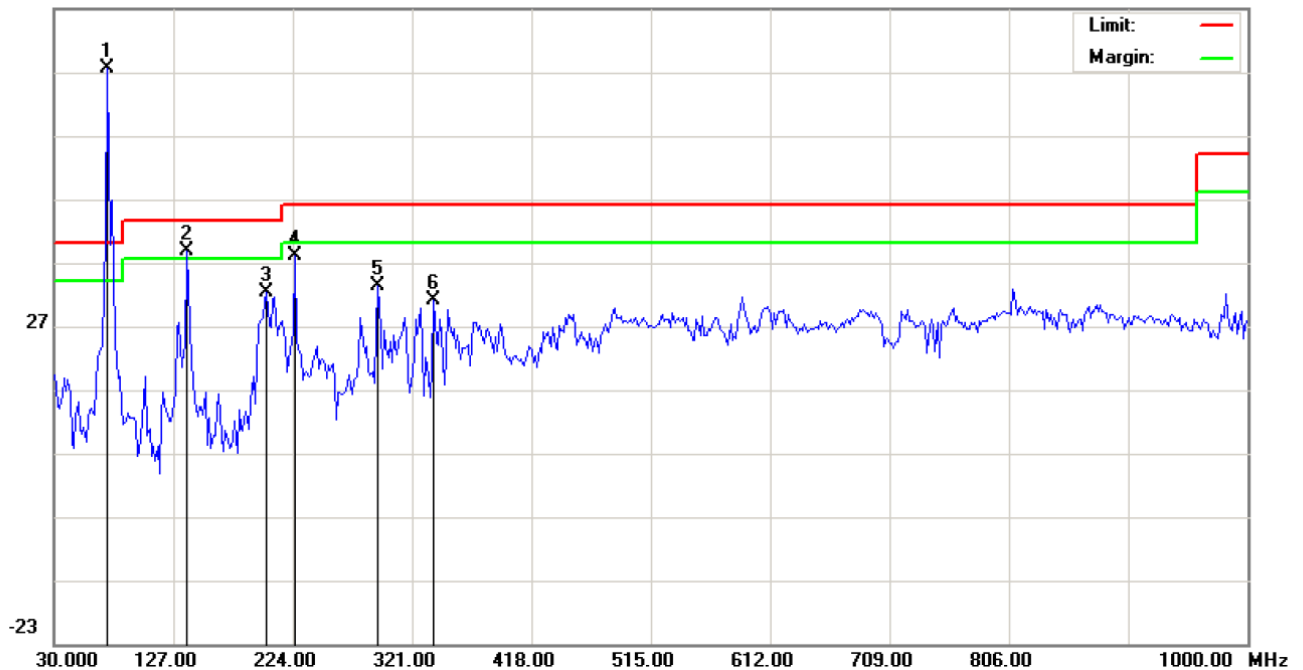
File :0807

Data :#24

Date: 2013/08/07

Time: 15:11:20

76.9 dBuV/m



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: ASSISTIVE LISTENING SYSTEM

M/N: ALS-600RF

Mode: Transmitting

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance:

Temperature: 26

Humidity: 60 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|-------------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | * | 75.2650 | 61.98 | 5.48 | 67.46 | 40.00 | 27.46 | peak | | | Fundamental |
| 2 | ! | 149.3165 | 35.71 | 3.16 | 38.87 | 43.50 | -4.63 | QP | | | |
| 3 | | 202.9833 | 25.03 | 7.36 | 32.39 | 43.50 | -11.11 | QP | | | |
| 4 | | 227.6167 | 29.82 | 8.25 | 38.07 | 46.00 | -7.93 | QP | | | |
| 5 | | 273.5167 | 15.71 | 17.57 | 33.28 | 46.00 | -12.72 | QP | | | |
| 6 | | 338.7832 | 10.88 | 20.21 | 31.09 | 46.00 | -14.91 | QP | | | |

Radiated Emission Measurement

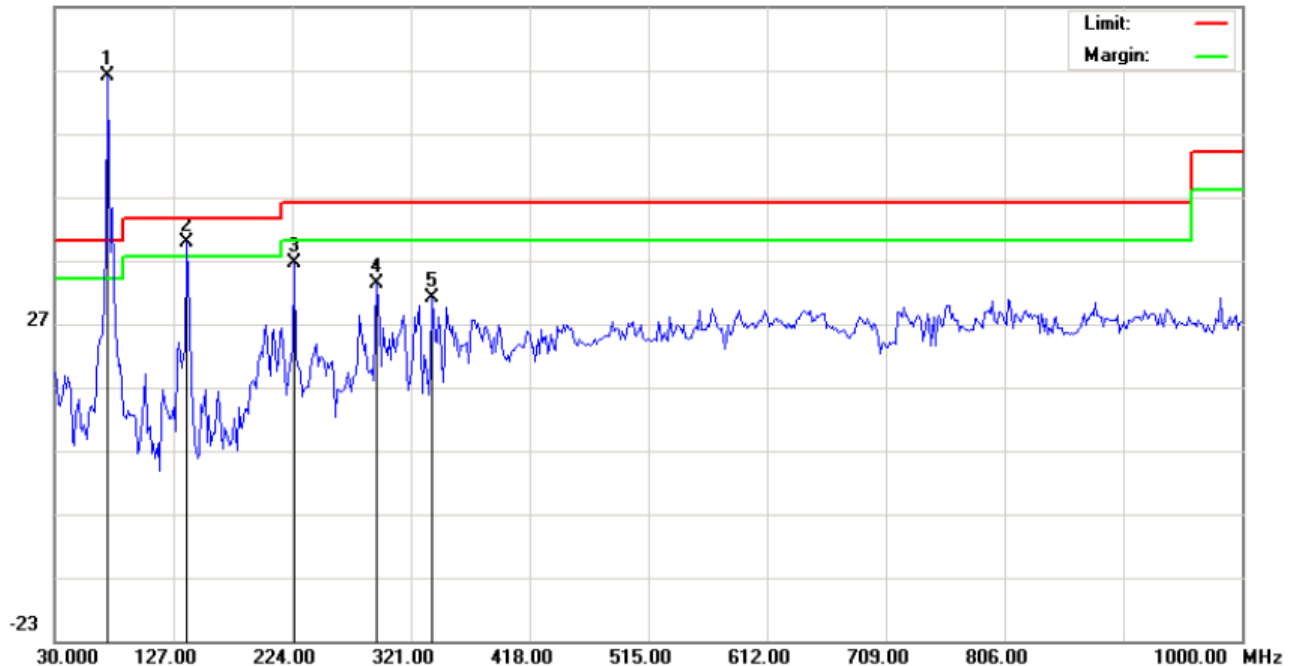
File :0807

Data :#23

Date: 2013/08/07

Time: 15:32:45

76.9 dBuV/m



Site: site #1

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: ASSISTIVE LISTENING SYSTEM

Distance:

M/N: ALS-600RF

Mode: Transmitting

Note:

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|-------------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | * | 75.6500 | 60.48 | 5.48 | 65.96 | 40.00 | 25.96 | peak | | | Fundamental |
| 2 | ! | 154.3165 | 36.71 | 3.16 | 39.87 | 43.50 | -3.63 | QP | | | |
| 3 | | 227.6167 | 28.32 | 8.25 | 36.57 | 46.00 | -9.43 | QP | | | |
| 4 | | 303.5167 | 15.71 | 17.57 | 33.28 | 46.00 | -12.72 | QP | | | |
| 5 | | 338.7832 | 10.88 | 20.21 | 31.09 | 46.00 | -14.91 | QP | | | |

Note: Except Fundamental, all emission peak values are compliance with Part 15.209 limits. The measuring frequencies to 10th harmonic of highest fundamental frequency.

Measurement result of Fundamental**Operation Mode:** Continue Transmitting**Test Date:** 2013-08-07**Temperature:** 20°C**Humidity:** 70 % RH

| Freq. (MHz) | Ant. Pol H/V | Peak Meas. (dBuV) | AV Meas. (dBuV) | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | PK Margin (dB) | AV Margin (dB) |
|----------------|-----------------|-------------------------|-----------------------|---------------------------|-------------------------|----------------------|----------------------|
| 75.50 | H | 65.96 | N/A ^{Note2} | 118.06 | 98.06 | 52.10 | N/A ^{Note2} |
| 75.50 | V | 67.46 | N/A ^{Note2} | 118.06 | 98.06 | 50.60 | N/A ^{Note2} |
| | | | | | | | |

Notes:

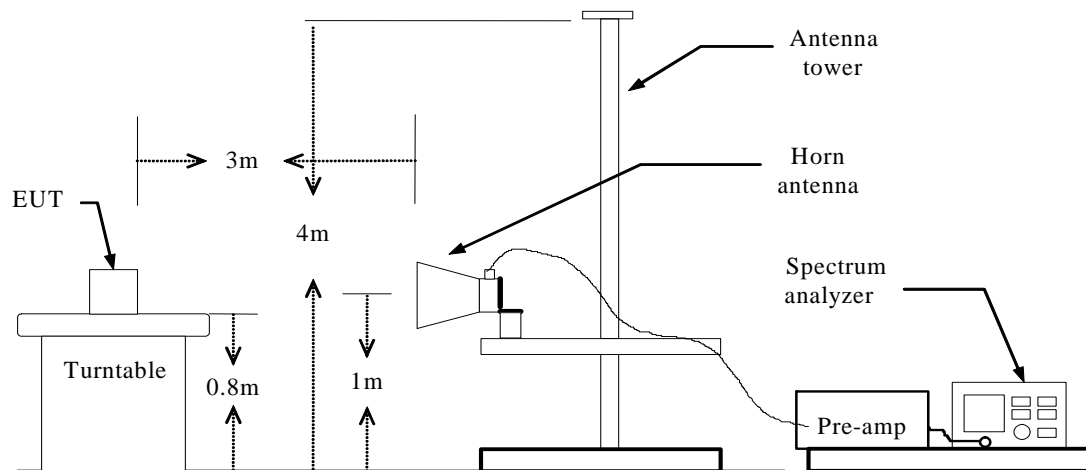
1. The Fundamental radiated emissions limit was according to § 15.237(c) & § 15.35.
2. The Peak Values of Fundamental are lower than Average Limit, the Average Values of Fundamental is not necessary.

5.2 20dB Bandwidth

5.2.1 REQUIREMENT

According to FCC section 15.237(b), Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the above specified frequency ranges.

5.2.2 TEST DESCRIPTION

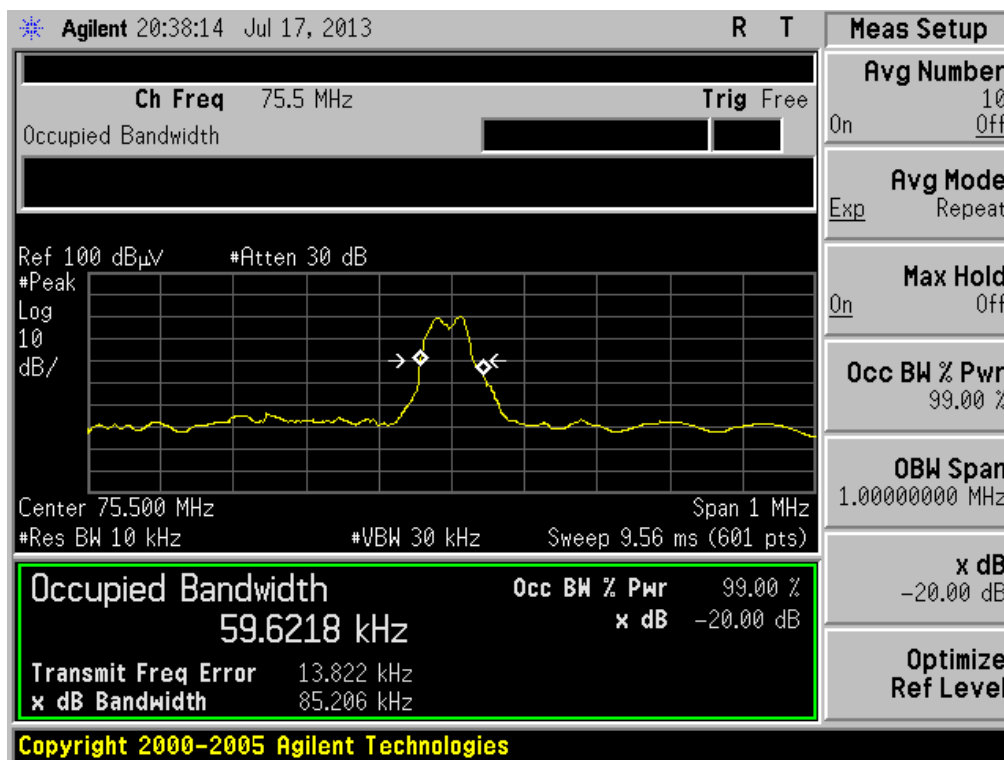


5.2.3 TEST RESULT

The EUT operates at continue transmitting test mode. The bandwidth test result as following:

| Test Channel | Channel Frequency | Measurement Result | Limit | Verdict |
|--------------|-------------------|--------------------|---------|---------|
| Channel 1 | 75.5 MHz | 85.206KHz | 200 KHz | Pass |

Test Plot:



(20 dB Bandwidth)

5.3 LINE CONDUCTED EMISSION TEST

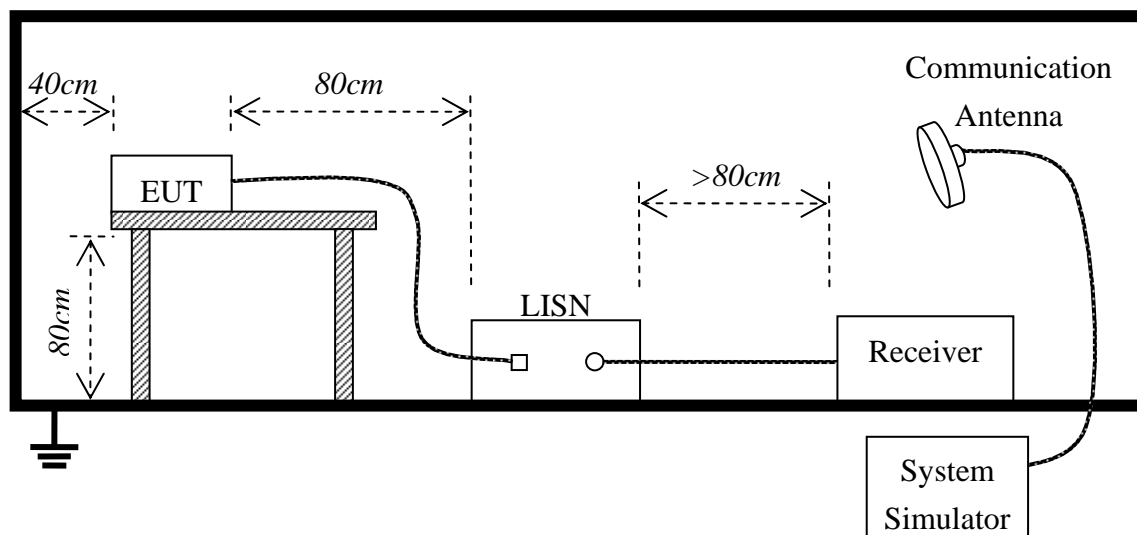
5.3.1 LIMITS OF LINE CONDUCTED EMISSION TEST

| Frequency | Maximum RF Line Voltage | |
|---------------|-------------------------|----------------|
| | Q.P.(dBuV) | Average(dBuV) |
| 150kHz-500kHz | 66-56 | 56-46 |
| 500kHz-5MHz | 56 | 46 |
| 5MHz-30MHz | 60 | 50 |

****Note:** 1. the lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.3.2 BLOCK DIAGRAM OF TEST SETUP



5.3.3 PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per FCC Part 15.
- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT received DC 5V power by AC/DC adapter which through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.

5.3.4 FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

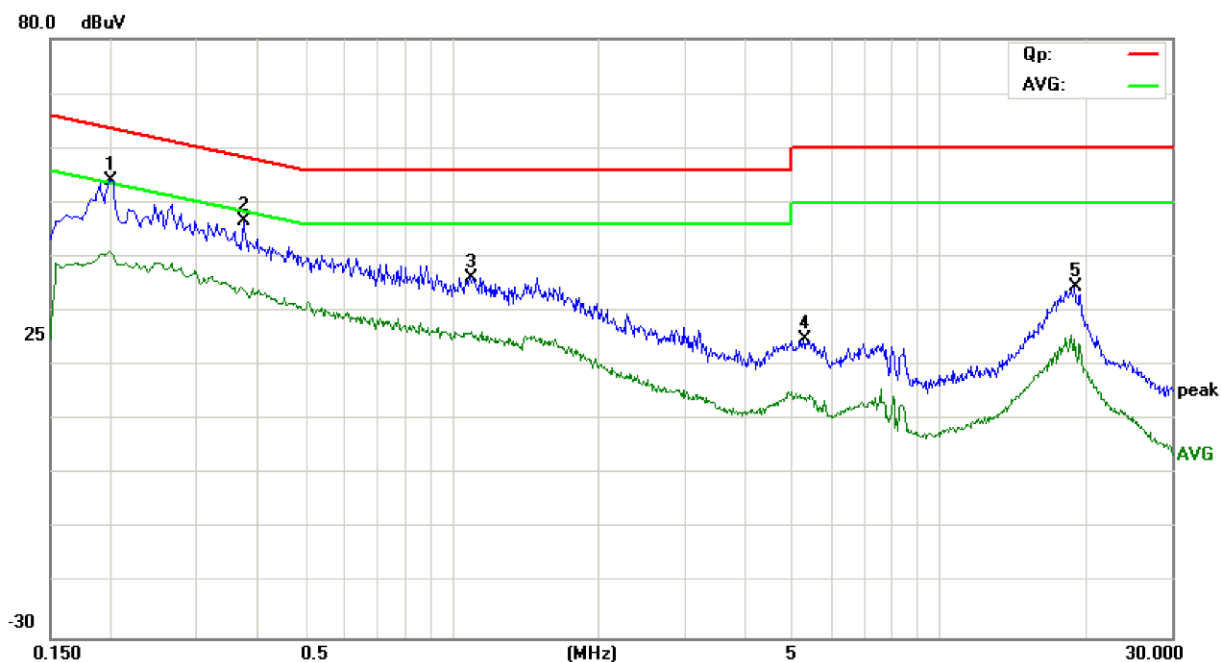
EUT and support equipment was set up on the test bench as per step 9 of the preliminary test.

A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

The test data of the worst case condition(s) was reported on the Summary Data page.

5.3.5 TEST RESULT OF LINE CONDUCTED EMISSION TEST

Conducted Emission Measurement



Site site #1

Phase: **N**

Temperature: 26

Limit: FCC Part15 Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: ASSISTIVE LISTENING SYSTEM

M/N: ALS-600RF

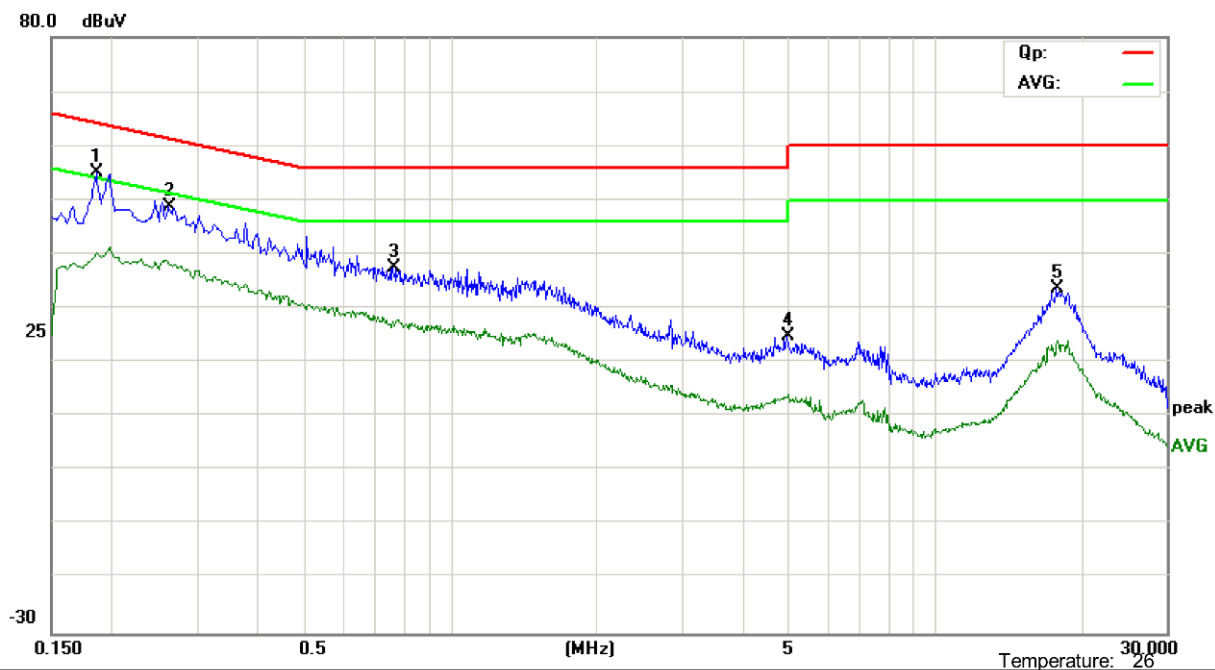
Mode: Transmitting

Note:

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | * | 0.1997 | 42.08 | 11.98 | 54.06 | 63.62 | -9.56 | peak | |
| 2 | | 0.3740 | 35.74 | 10.84 | 46.58 | 58.41 | -11.83 | peak | |
| 3 | | 1.0900 | 26.31 | 9.91 | 36.22 | 56.00 | -19.78 | peak | |
| 4 | | 5.2740 | 12.94 | 11.84 | 24.78 | 60.00 | -35.22 | peak | |
| 5 | | 18.9500 | 25.60 | 9.00 | 34.60 | 60.00 | -25.40 | peak | |

*:Maximum data x:Over limit !:over margin

Conducted Emission Measurement



Site site #1

Phase: **L1**Temperature: 26
Humidity: 60 %

Limit: FCC Part15 Class B QP

Power: AC 120V/60Hz

EUT: ASSISTIVE LISTENING SYSTEM

M/N: ALS-600RF

Mode: Transmitting

Note:

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | * | 0.1860 | 43.88 | 11.16 | 55.04 | 64.21 | -9.17 | peak | |
| 2 | | 0.2620 | 37.18 | 11.59 | 48.77 | 61.37 | -12.60 | peak | |
| 3 | | 0.7620 | 27.63 | 10.00 | 37.63 | 56.00 | -18.37 | peak | |
| 4 | | 4.9420 | 12.82 | 11.94 | 24.76 | 56.00 | -31.24 | peak | |
| 5 | | 17.7900 | 24.74 | 9.00 | 33.74 | 60.00 | -26.26 | peak | |

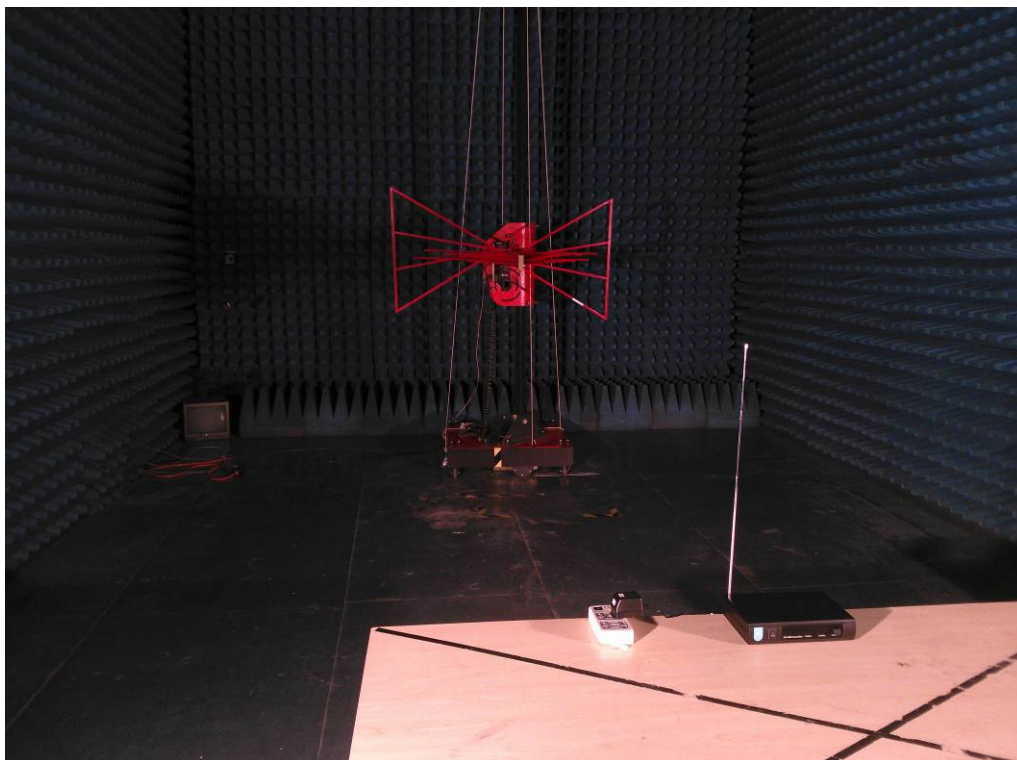
*:Maximum data x:Over limit !:over margin

APPENDIX 1
PHOTOGRAPHS OF TEST SETUP

CE TEST SETUP



RE TEST SETUP



APPENDIX 2
PHOTOGRAPHS OF EUT

FRONT VIEW OF SAMPLE



BACK VIEW OF SAMPLE



UP VIEW OF SAMPLE



DOWN VIEW OF SAMPLE



LEFT SIDE VIEW OF SAMPLE



RIGHT SIDEN VIEW OF SAMPLE



PHOTO OF CHARGER



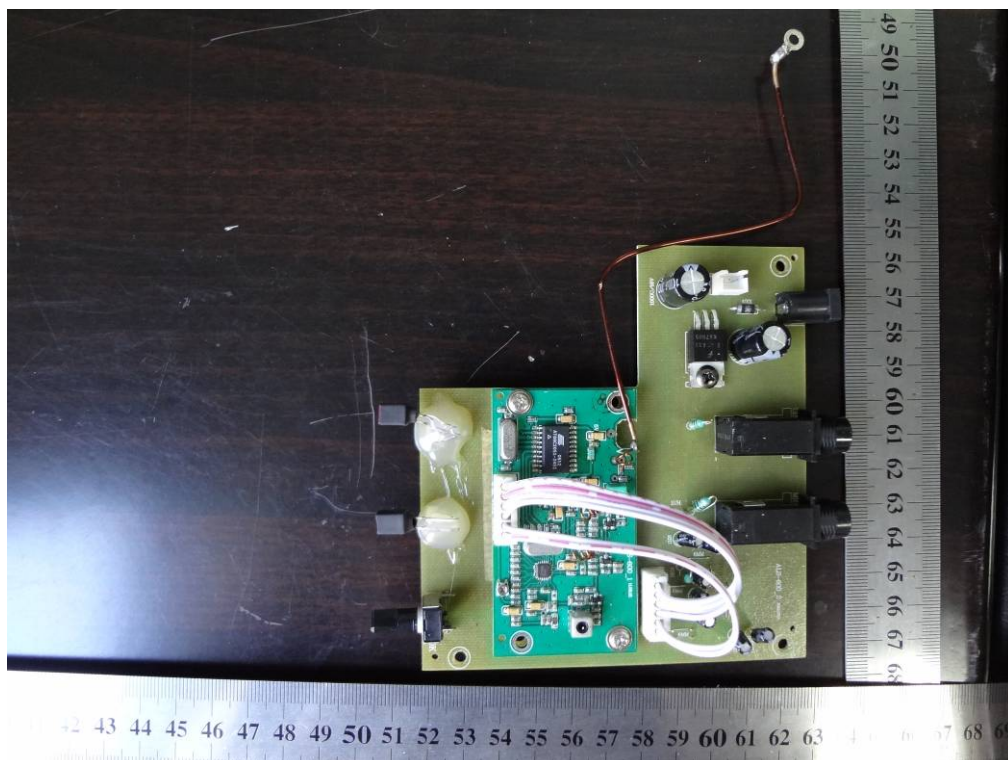
PHOTO OF AUDIO CABLE



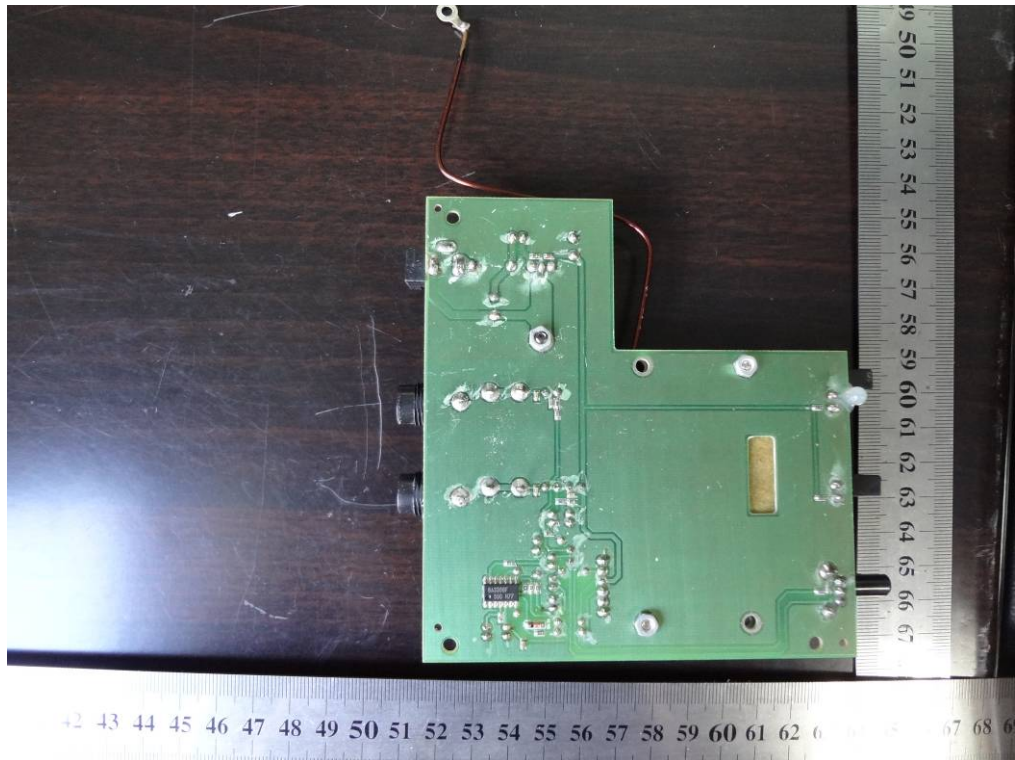
INTERNAL PHOTO OF SAMPLE - 1



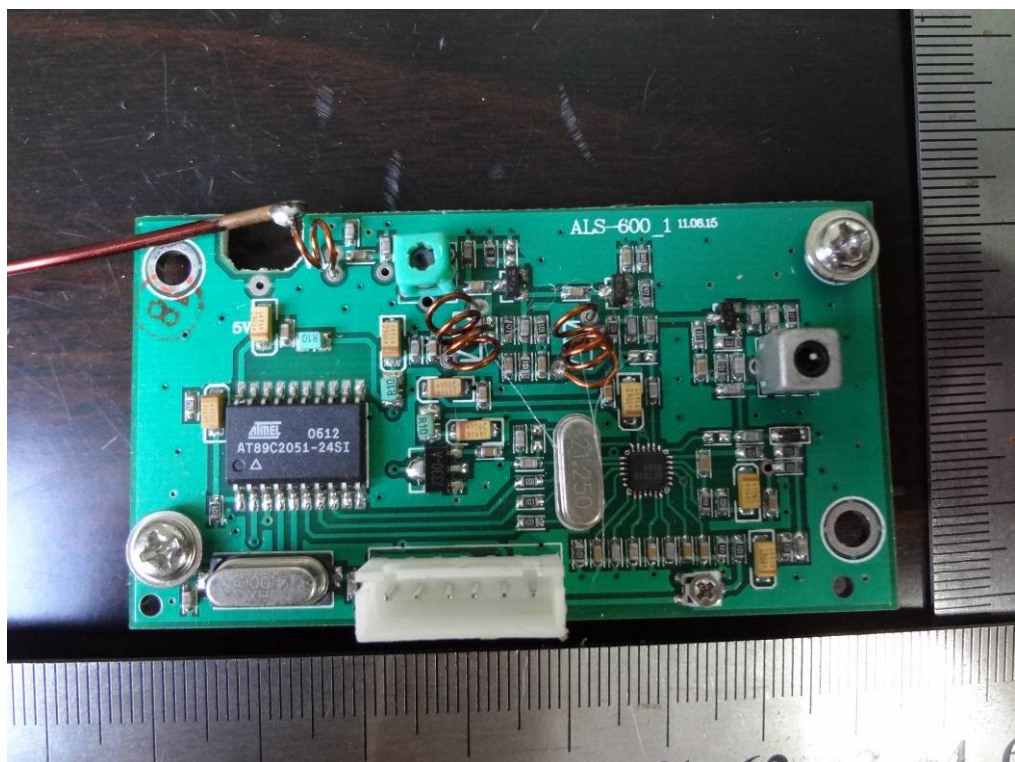
INTERNAL PHOTO OF SAMPLE -2



INTERNAL PHOTO OF SAMPLE - 3



INTERNAL PHOTO OF SAMPLE - 4



INTERNAL PHOTO OF SAMPLE - 5

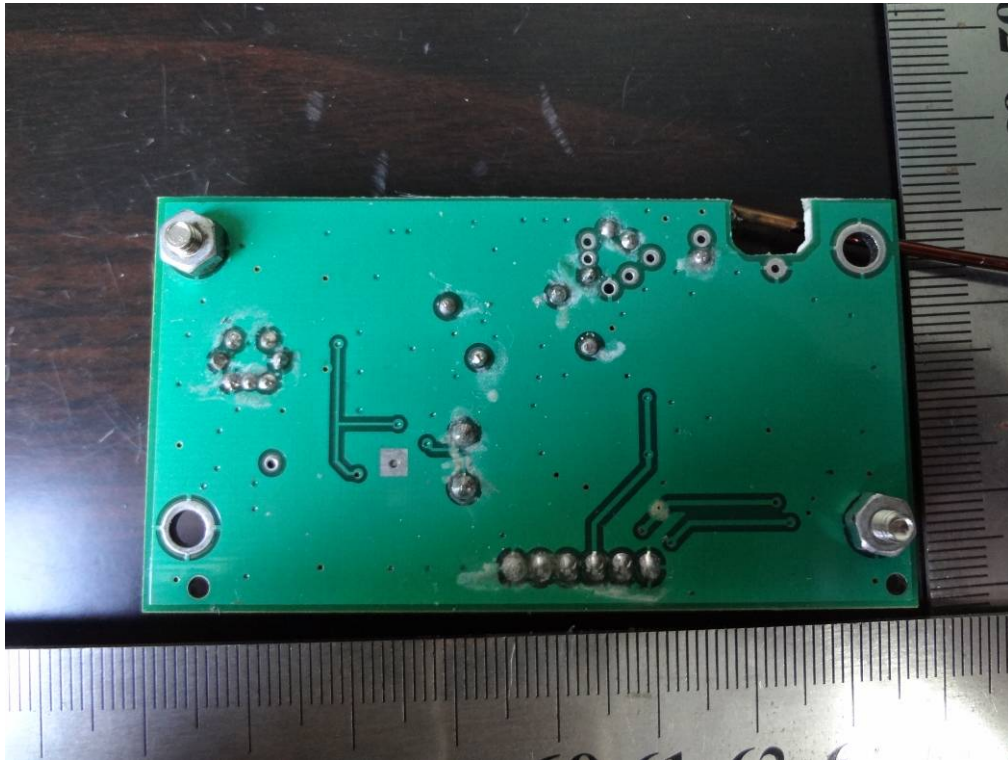


PHOTO OF ANTENNA VIEW



-----END OF REPORT-----