



FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Applicant : Zhejiang Lianmei Industrial Co.,Ltd

Address : No.99 Jiuzhou Road, Hardware Industrial Area,
Yongkang, Zhejiang, china

Product Name : Balance Scooter(REMOTE)

Model Name : LME-S1, LME-S2, LME-S1-10, LME-S2-8, LME-S3,
LME-S4

Brand Name : N/A

FCC ID : 2AHMK-LME-S1REMOTE

Report No. : MTE/SNS/S16030485

Date of Issue : Mar. 03, 2016

Issued by : Most Technology Service Co., Ltd.

Address : No.5, Langshan 2nd Road, North District, Hi-tech Industrial
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1. VERIFICATION OF CONFORMITY

| | |
|----------------------------------|--|
| Equipment Under Test: | Balance Scooter(REMOTE) |
| Brand Name: | N/A |
| Model Number: | LME-S1 |
| FCC ID: | 2AHMK-LME-S1REMOTE |
| Applicant: | Zhejiang Lianmei Industrial Co.,Ltd No.99 Jiuzhou Road, Hardware Industrial Area, Yongkang, Zhejiang, china |
| Manufacturer: | Zhejiang Lianmei Industrial Co.,Ltd No.99 Jiuzhou Road, Hardware Industrial Area, Yongkang, Zhejiang, china |
| Technical Standards: | 47 CFR Part 15 Subpart C |
| File Number: | MTE/SNS/S16030485 |
| Date of test: | Jan. 26-Feb. 24, 2016 |
| Deviation: | None |
| Condition of Test Sample: | Normal |
| Test Result: | PASS |

The above equipment was tested by Most Technology Service Co., Ltd. for compliance with the requirements 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):

Sona
Sona. Shen Jan. 26-Feb. 24, 2016

Review by (+ signature):

Henry
Henry Chen APPROVED
* EMC & Mar. 03, 2016

Approved by (+ signature):

Jh
Yvette Zhou (Manager) Mar. 03, 2016

2. GENERAL INFORMATION

2.1 Product Information

| | |
|--------------------------------|---|
| Product | Balance Scooter(REMOTE) |
| Brand Name | N/A |
| Model Number | LME-S1 |
| Series Model Name: | LME-S2, LME-S1-10, LME-S2-8, LME-S3, LME-S4 |
| Difference description: | Only difference in the model name. |
| Power Supply | DC 3V by battery |
| Frequency Range | 315 MHz |
| Channel Number: | 1 |
| Antenna Type | PCB Antenna, 0 dBi |
| Modulation Technique | ASK |
| Temperature Range | 0°C ~ +40°C |

NOTE:

1. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

Perform FCC Part 15 Subpart C tests for FCC Marking.

2.3 Test Standards and Results

Test items and the results are as bellow:

| No. | Section | Description | Result | Date of Test |
|-----|-----------|-------------------------|--------|--------------|
| 1 | 15.231(b) | Radiated Emission | PASS | 2016-03-14 |
| 2 | 15.231 | 20dB Bandwidth | PASS | 2016-03-15 |
| 3 | 15.231 | Transmission Cease Time | PASS | 2016-03-15 |
| 4 | 15.203 | Antenna Requirement | PASS | 2016-03-14 |

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 METHODOLOGY

3.1 TEST FACILITY

Test Site: Most Technology Service Co., Ltd.

Location: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China

Description: 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.

The FCC Registration Number is **490827**.

The **IC** Registration Number is **7103A-1**.

The **CNAS** Registration Number is **CNAS L3573**.

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.

The field strength of radiation emission was measured in the following position: EUT lie-down position (Y axis), stand-up position (X, Z axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

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.

Radiated Emissions

The EUT is placed on a turn table, which is 1.5 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 6.5 of ANSI C63.10:2013.

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10:2013, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

4 SETUP OF EQUIPMENT UNDER TEST

4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

4.2 SUPPORT EQUIPMENT

| Device Type | Brand | Model | FCC ID | Series No. | Audio Cable | Power Cord |
|-------------|-------|-------|--------|------------|-------------|------------|
| -- | -- | -- | -- | -- | -- | -- |

Remark:

All buttons of the EUT have been tested and only worst case reported. The EUT has been tested as an independent unit. And Continual Transmitting in maximum power (The new battery be used during Test) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.3 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 date | Calibration Interval |
|-----|--------------------------------|------------------|------------|------------|------------------|----------------------|
| 1 | Test Receiver | Rohde & Schwarz | ESCI | 100492 | 2015/03/10 | 1 Year |
| 2 | Spectrum Analyzer | Agilent | E7405A | US44210471 | 2015/03/14 | 1 Year |
| 3 | L.I.S.N. | Rohde & Schwarz | ENV216 | 100093 | 2015/03/10 | 1 Year |
| 4 | Coaxial Switch | Anritsu Corp | MP59B | 6200283933 | 2015/03/07 | 1 Year |
| 5 | Terminator | Hubersuhner | 50Ω | No.1 | 2015/03/07 | 1 Year |
| 6 | RF Cable | SchwarzBeck | N/A | No.1 | 2015/03/07 | 1 Year |
| 7 | Test Receiver | Rohde & Schwarz | ESPI | 101202 | 2015/03/10 | 1 Year |
| 8 | Bilog Antenna | Sunol | JB3 | A121206 | 2015/03/14 | 1 Year |
| 9 | Horn Antenna | SCHWARZBECK | BBHA9120D | 756 | 2015/03/14 | 1 Year |
| 10 | Horn Antenna | Penn Engineering | 9034 | 8376 | 2015/03/14 | 1 Year |
| 11 | Cable | Resenberger | N/A | NO.1 | 2015/03/07 | 1 Year |
| 12 | Cable | SchwarzBeck | N/A | NO.2 | 2015/03/07 | 1 Year |
| 13 | Cable | SchwarzBeck | N/A | NO.3 | 2015/03/07 | 1 Year |
| 14 | Single Phase Power Line Filter | DuoJi | FNF 202B30 | N/A | 2015/03/07 | 1 Year |
| 15 | Test Receiver | Rohde & Schwarz | ESCI | 100492 | 2015/03/10 | 1 Year |
| 16 | Loop antenna | ARA | PLA-1030/B | 1039 | 2015/03/14 | 1 Year |

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

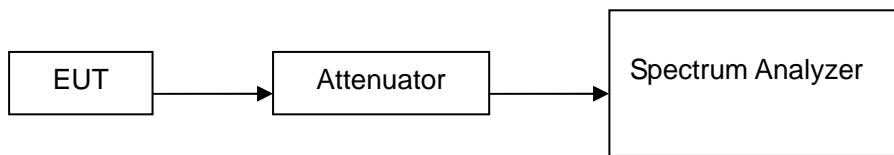
5. 47 CFR Part 15 C Requirements

5.1 DUTY CYCLE

5.1.1 LIMIT

Nil (No dedicated limit specified in the Rules)

5.1.2 Test Configuration



5.1.3 TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span = 0Hz, Adjust Sweep = 100ms
5. Repeat above procedures until all frequency measured were complete.

5.1.4 Test Data

$$Ton1=0.30*9=2.7 \text{ (ms)}$$

$$Ton2=0.84*10= 8.4(\text{ms})$$

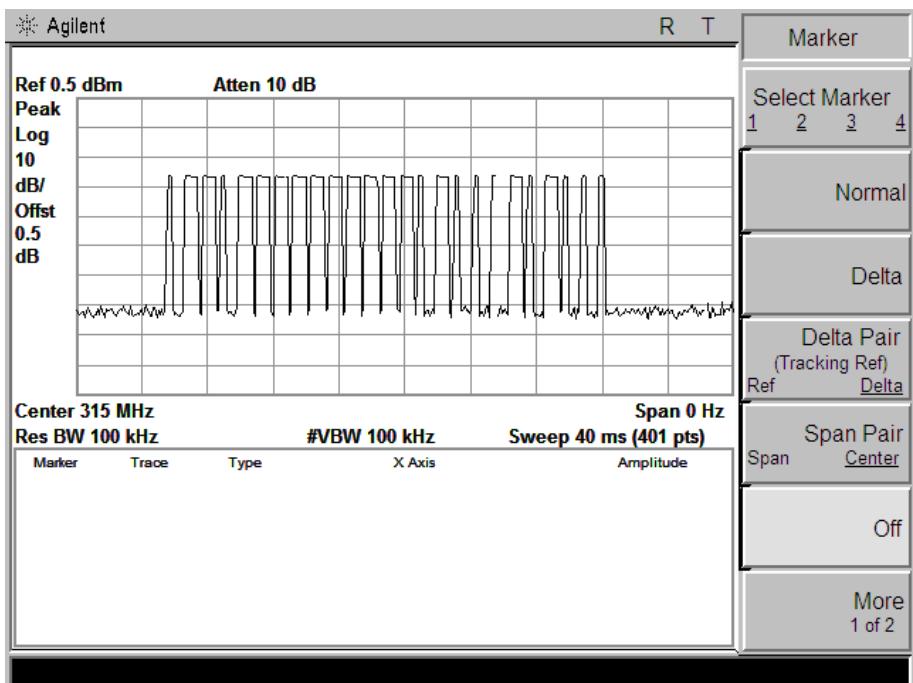
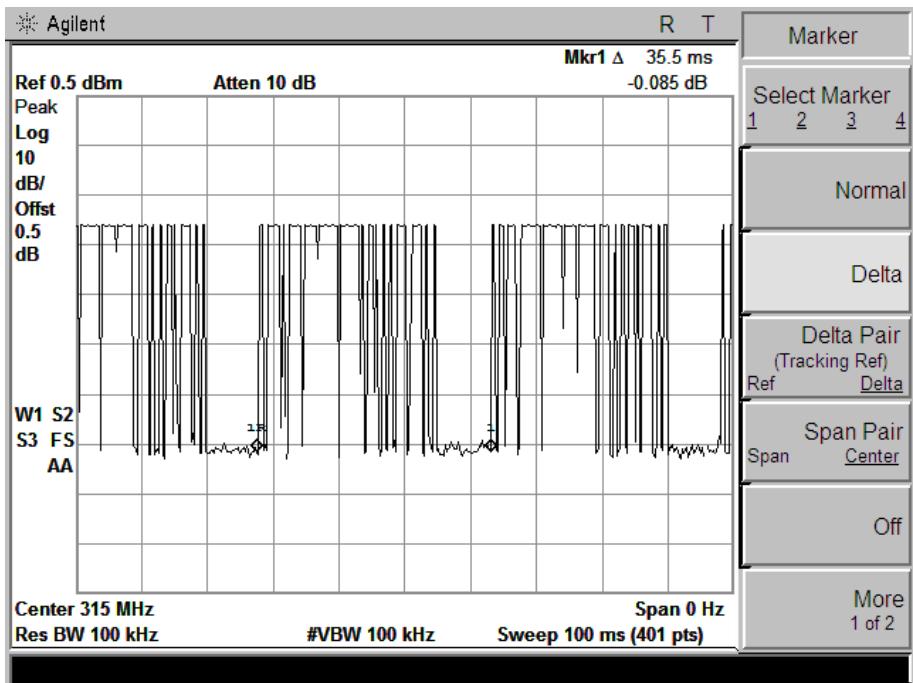
$$Ton3=0.87*6= 5.22 \text{ (ms)}$$

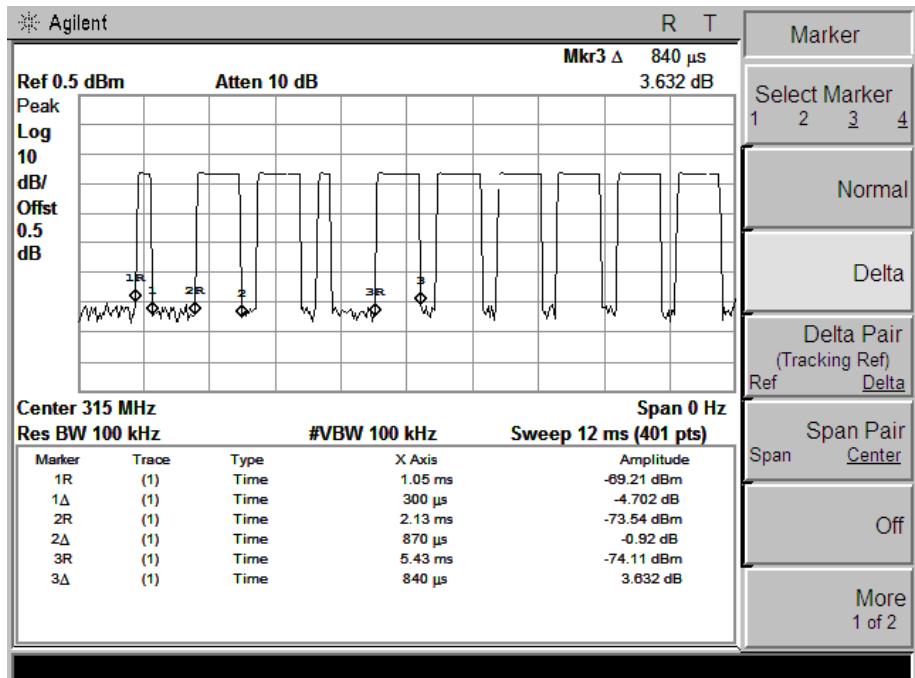
$$Ton=Ton1+Ton2+Ton3=16.32(\text{ms})$$

$$Tp=35.5(\text{ms})$$

$$\text{Duty Cycle Correction Factor}=20*\log(Ton/35.5)= 20*\log (16.32/35.5) = -6.75\text{dB}$$

5.1.5 Test Plot





5.2 Radiated Emission

5.2.1 Definition

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

| Frequency of Emission (MHz) | Field Strength | | Measurement Distance (meters) |
|-----------------------------|-----------------|--------------------------|-------------------------------|
| | $\mu\text{V/m}$ | $\text{dB}\mu\text{V/m}$ | |
| 0.009-0.49 | 2400/F(kHz) | | 300 |
| 0.49-1.705 | 24000/F(kHz) | | 30 |
| 1.705-30 | 30 | | 30 |
| 30-88 | 100 | 40 | 3 |
| 88-216 | 150 | 43.5 | 3 |
| 216-960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

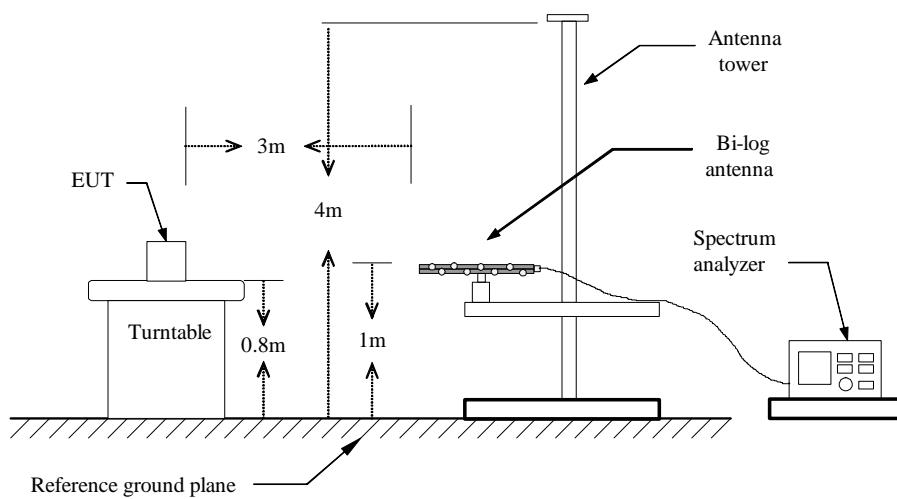
15.231(b) In addition to the provisions of § 15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

| Fundamental Frequency (MHz) | Field strength of fundamental | | Field strength of harmonics | |
|-----------------------------|-------------------------------|--------------------------|-----------------------------|--------------------------|
| | $\mu\text{V/m}$ | $\text{dB}\mu\text{V/m}$ | $\mu\text{V/m}$ | $\text{dB}\mu\text{V/m}$ |
| 315.00 | 6041.67 | 75.62 | 604.17 | 55.62 |

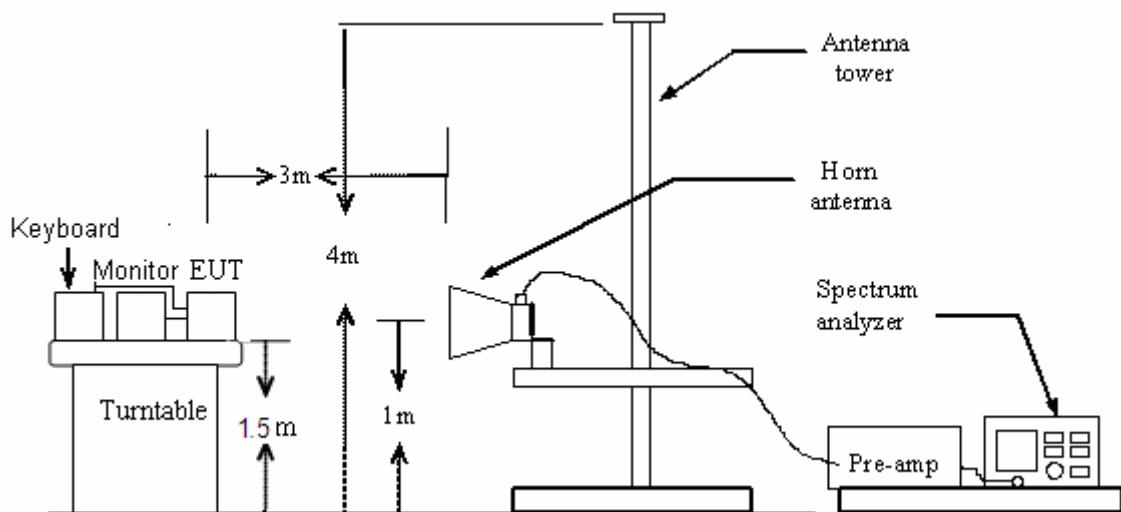
5.2.2 Test Configuration

Test Setup:

Below 1GHz:



Above 1GHz:



5.2.3 Test Description

1. For frequencies above 1GHz, the frequencies of maximum emission was recorded by manually positioning the antenna close to the EUT and by moving the antenna over all sides of the EUT while observing a spectral display.
2. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
3. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
4. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
5. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rote table was turned from 0 degrees to 360 degrees to find the maximum reading.
6. For frequencies above 1GHz, horn antenna mouth should face to the EUT all the time when rise or fall.
7. Set the spectrum analyzer in the following setting as:

Below 1GHz: PEAK: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO QP: RBW=120 kHz / Sweep=AUTO

Above 1GHz: (a)PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b)AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

8. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

5.2.4 Test Result

Form 9 KHz to 30MHz:

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

Notes:

Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Fundamental frequency measurement :**Peak table:**

| Freq. (MHz) | Detector | Ant. Pol. H/V | Reading [Peak] (dBuV/m) | Factor (dB) | Actual FS [Peak] (dBuV/m) | Limit 3m (dBuV/m) | Safe Margin (dB) |
|----------------|----------|---------------------|-------------------------------|----------------|---------------------------------|-------------------------|------------------------|
| 315.00 | Peak | H | 61.95 | 16.80 | 78.75 | 95.62 | -16.87 |
| 315.00 | Peak | V | 47.29 | 16.80 | 64.09 | 95.62 | -31.53 |

Average table:

| Freq. (MHz) | Detector | Ant. Pol. H/V | Actual FS [Peak] (dBuV/m) | Duty Correction Factor (dB) | Actual FS [AV] (dBuV/m) | Limit 3m (dBuV/m) | Safe Margin (dB) |
|----------------|----------|---------------------|---------------------------------|--------------------------------------|-------------------------------|-------------------------|------------------------|
| 315.00 | --- | H | 78.75 | -6.75 | 72.00 | 75.62 | -3.62 |
| 315.00 | --- | V | 64.09 | -6.75 | 57.34 | 75.62 | -18.28 |

Harmonic frequency measurement :**Peak table:**

| Freq. (MHz) | Detector | Ant. Pol. H/V | Reading [Peak] (dBuV/m) | Factor (dB) | Actual FS [Peak] (dBuV/m) | Limit 3m (dBuV/m) | Safe Margin (dB) |
|----------------|----------|---------------------|-------------------------------|----------------|---------------------------------|-------------------------|------------------------|
| 630.00 | Peak | H | 25.33 | 23.80 | 49.13 | 75.62 | -26.49 |
| 630.00 | Peak | V | 20.31 | 23.80 | 44.11 | 75.62 | -31.51 |

Average table:

| Freq. (MHz) | Detector | Ant. Pol. H/V | Actual FS [Peak] (dBuV/m) | Duty Correction Factor (dB) | Actual FS [AV] (dBuV/m) | Limit 3m (dBuV/m) | Safe Margin (dB) |
|----------------|----------|---------------------|---------------------------------|--------------------------------------|-------------------------------|-------------------------|------------------------|
| 630.00 | --- | H | 49.13 | -6.75 | 42.38 | 55.62 | -13.24 |
| 630.00 | --- | V | 44.11 | -6.75 | 37.36 | 55.62 | -18.26 |

Peak table:

| Freq. (MHz) | Detector | Ant. Pol. H/V | Reading [Peak] (dBuV/m) | Factor (dB) | Actual FS [Peak] (dBuV/m) | Limit 3m (dBuV/m) | Safe Margin (dB) |
|----------------|----------|------------------|-------------------------------|----------------|---------------------------------|-------------------------|------------------------|
| 945.00 | Peak | H | 22.10 | 27.75 | 49.85 | 75.62 | -25.77 |
| 945.00 | Peak | V | 23.08 | 27.75 | 50.83 | 75.62 | -24.79 |
| 1260.00 | Peak | H | --- | --- | --- | --- | >20 |
| 1260.00 | Peak | V | --- | --- | --- | --- | >20 |

Average table:

| Freq. (MHz) | Detector | Ant. Pol. H/V | Actual FS [Peak] (dBuV/m) | Duty Correction Factor (dB) | Actual FS [AV] (dBuV/m) | Limit 3m (dBuV/m) | Safe Margin (dB) |
|----------------|----------|---------------------|---------------------------------|--------------------------------------|-------------------------------|-------------------------|------------------------|
| 945.00 | --- | H | 49.85 | -6.75 | 43.10 | 55.62 | -12.52 |
| 945.00 | --- | V | 50.83 | -6.75 | 44.08 | 55.62 | -11.54 |
| 1260.00 | --- | H | --- | --- | --- | --- | >20 |
| 1260.00 | --- | V | --- | --- | --- | --- | >20 |

Spurious frequency measurement (other than Fundamental & harmonic frequency) :

| Freq. (MHz) | Detector | Ant. Pol. H/V | Reading (dBuV/m) | Factor (dB) | Actual FS (dBuV/m) | Limit 3m (dBuV/m) | Safe Margin (dB) |
|----------------|----------|---------------------|---------------------|----------------|-----------------------|-------------------------|------------------------|
| 42.89 | QP | H | --- | --- | --- | 60.80 | >20 |
| 42.90 | QP | V | --- | --- | --- | 60.80 | >20 |
| 114.51 | QP | H | --- | --- | --- | 60.80 | >20 |
| 122.83 | QP | V | --- | --- | --- | 60.80 | >20 |
| 483.12 | QP | H | --- | --- | --- | 60.80 | >20 |
| 467.23 | QP | V | --- | --- | --- | 60.80 | >20 |

Note: 1: Actual FS [Peak] = Reading [Peak] + Factor;

2: Actual FS [AV] = actual FS [Peak] + Duty Cycle Correction Factor;

3: For frequency above 1GHz, no other spurious emission could be detected except harmonic frequency;

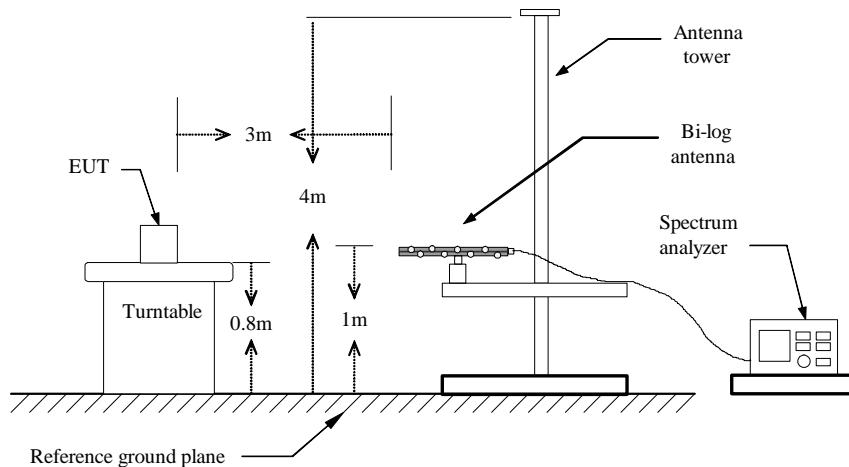
4: Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.

5.3 20dB Bandwidth

5.3.1 Requirement

According to FCC section 15.231(c), the bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

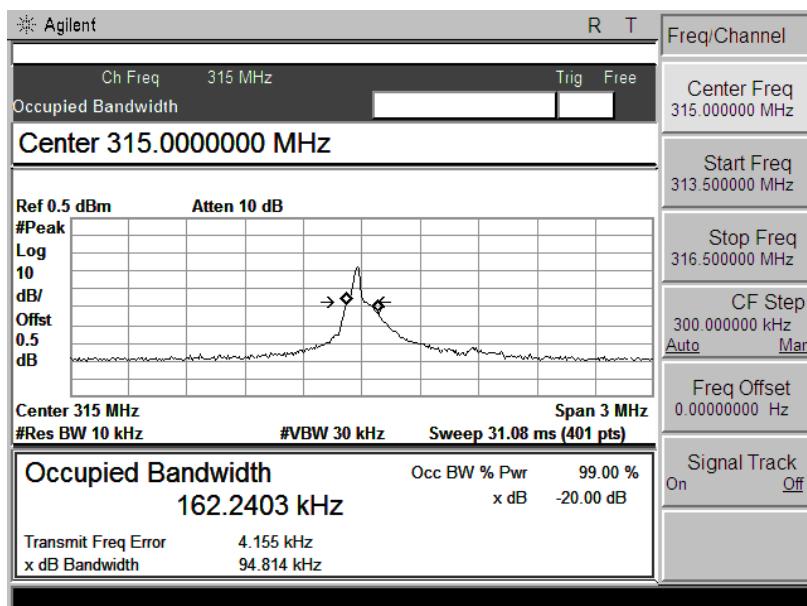
5.3.2 Test Description



5.2.3 Test Result

| Frequency | 20dB Bandwidth | Limit | Result |
|-----------|----------------|----------|--------|
| 315.00MHz | 94.814kHz | 787.5KHz | PASS |

Test Plot:



5.4 Transmission Cease Time

5.4.1 Requirement

According to FCC section 15.231(a):

(2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.

5.4.2 Test Description

EUT fulfills the requirement of FCC section 15.231(a)(2);

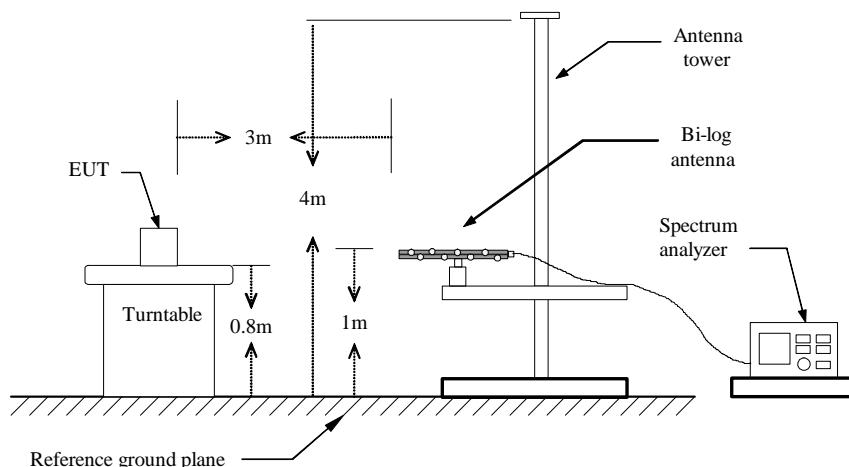
1: The EUT is placed on a turntable, which is 0.8m above ground plane;

2: Set the spectrum analyzer in the following setting as:

RBW=1MHz / VBW=1MHz / Sweep=10s;

3: Press the button of EUT and then release;

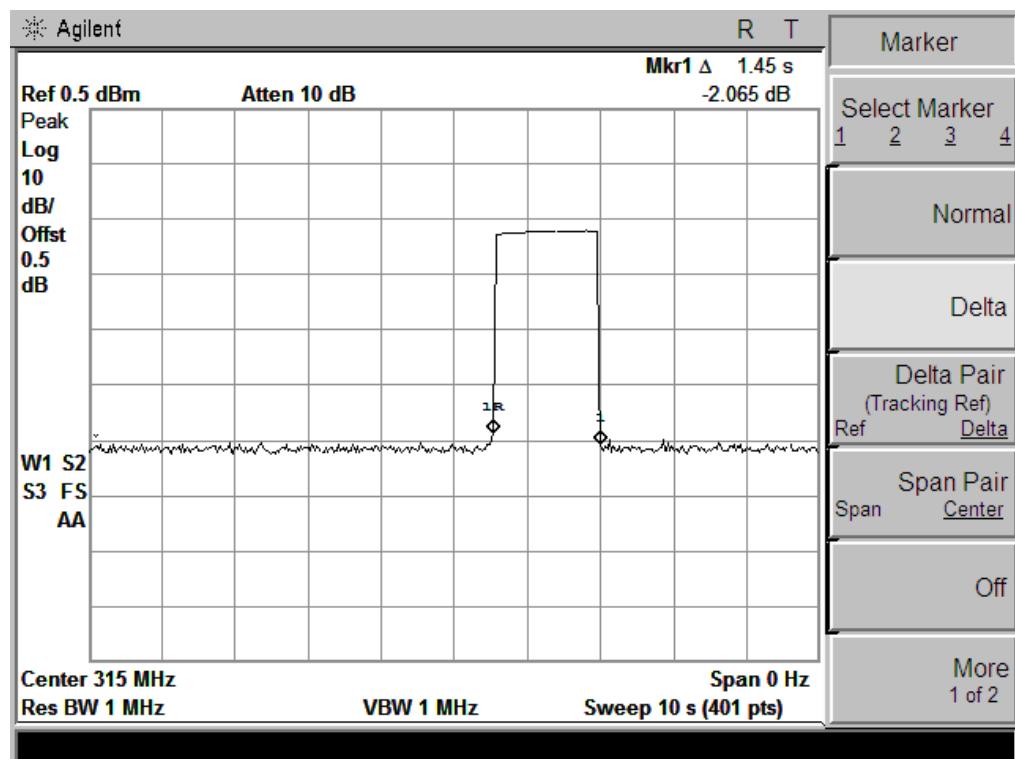
Remark: EUT would be triggered when pressing the button.



5.4.3 Test Result

This time complies with the FCC requirement. The Stop Transmitting Time is 1.075 second. The limit of the Stop Transmitting Time is 5 second, thus the time complies with the Stop Transmitting Time of limit.

| Frequency | Test Result | Limit | Result |
|-----------|-------------|-------|--------|
| 315.00MHz | 1.45s | <5s | PASS |

Test Plot:

5.5 Antenna Requirement

5.5.1 Definition

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. An analysis of the EUT was performed to determine compliance with FCC Section 15.203. This section requires specific handling and control of antennas used for devices subject to regulations.

5.5.2 Evaluation Criteria

Section 15.203 of the rules states that the subject device must meet at least one of the following criteria:

- (a) Antenna must be permanently attached to the unit.
- (b) Antenna must use a unique type of connector to attach to the EUT.
- (c) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

5.5.3 Evaluation Results

The EUT has one integral antenna arrangement, which was permanently attached and the antenna gain is 0 dBi, fulfill the requirement of this section.

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