



FCC TEST REPORT

FCC ID:2ART3-KW100-EN

Report Number..... : ZKT-240131L1484E-2

Date of Test..... Jan. 20, 2024- Jan. 30, 2024

Date of issue : Jan. 30, 2024

Total number of pages 22

Test Result : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : Shenzhen Lonsdor Technology Co.,Ltd.

Address : No.201-203,Block B3,Zhimei park,Fuhai Industrial Zone,Fuhai Ave, FuyongSt.,Bao'an,Shenzhen, China

Manufacturer's name : Shenzhen Lonsdor Technology Co.,Ltd.

Address : No.201-203,Block B3,Zhimei park,Fuhai Industrial Zone,Fuhai Ave, FuyongSt.,Bao'an,Shenzhen, China

Test specification:

Standard..... : FCC CFR Title 47 Part 15 Subpart C
ANSI C63.10:2013

Test procedure : /

Non-standard test method : N/A

Test Report Form No. : TRF-EL-112_V0

Test Report Form(s) Originator : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name : KW100 EN

Trademark : Lonsdor

Model/Type reference : KW100 EN,KW100

Ratings : DC 5V by Type-C port

**Testing procedure and testing location:****Testing Laboratory.....:** Shenzhen ZKT Technology Co., Ltd.**Address**: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China**Tested by (name + signature).....:** Jim Liu**Reviewer (name + signature).....:** Tom Zou**Approved (name + signature)**: Lake Xie



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**1.VERSION**

| Report No. | Version | Description | Approved |
|--------------------|---------|-------------------------|---------------|
| ZKT-240131L1484E-2 | Rev.01 | Initial issue of report | Jan. 30, 2024 |
| | | | |
| | | | |



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 , Subpart B | | | |
|------------------------|---|----------|--------|
| Standard Section | Test Item | Judgment | Remark |
| FCC part 15.203 | Antenna requirement | PASS | |
| FCC part 15.207 | AC Power Line Conducted Emission | N/A | |
| FCC part 15.209 | Fundamental &Radiated Spurious Emission Measurement | PASS | |
| FCC part 15 | Channel Bandwidth | PASS | |

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Address: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299

IC Registered No.: 27033

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$ · where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$ · providing a level of confidence of approximately 95 % .

| No. | Item | Uncertainty |
|-----|------------------------------|-------------------------|
| 1 | Conducted Emission Test | $\pm 1.38\text{dB}$ |
| 2 | RF power conducted | $\pm 0.16\text{dB}$ |
| 3 | Spurious emissions conducted | $\pm 0.21\text{dB}$ |
| 4 | All emissions radiated(<1G) | $\pm 4.68\text{dB}$ |
| 5 | All emissions radiated(>1G) | $\pm 4.89\text{dB}$ |
| 6 | Temperature | $\pm 0.5^\circ\text{C}$ |
| 7 | Humidity | $\pm 2\%$ |



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | |
|----------------------|--------------------------------|
| Product Name: | KW100 EN |
| Model No.: | KW100 EN,KW100 |
| Model Different.: | Only for different model name. |
| Hardware Version: | N/A |
| Software Version: | N/A |
| Sample(s) Status: | Engineer sample |
| Operation Frequency: | 125KHz |
| Channel Numbers: | 1 |
| Channel Separation: | N/A |
| Modulation Type: | ASK |
| Antenna Type: | Coil antenna |
| Antenna gain: | 0dBi |
| Power supply: | DC 5V by Type-C port |



3.2 DESCRIPTION OF TEST MODES

| | |
|---|--|
| Transmitting mode | Keep the EUT in continuously transmitting NFC mode |
| Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data. | |

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Emission



Conducted Spurious



3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|-----------|-----------|----------------|------------|------|
| E-1 | KW100 EN | Lonsdor | KW100 EN | N/A | EUT |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| | | | | |
| | | | | |
| | | | | |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in «Length» column.



3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

| Item | Equipment | Manufacturer | Type No. | Serial No. | Firmware Version | Last calibration | Calibrated until |
|------|-----------------------------------|----------------|-----------------|--------------------|------------------|------------------|------------------|
| 1 | Spectrum Analyzer (9kHz-26.5GHz) | KEYSIGHT | 9020A | MY55370835 | A.17.05 | Nov. 02, 2023 | Nov. 01, 2024 |
| 2 | Spectrum Analyzer (10kHz-39.9GHz) | R&S | FSV40-N | 100363 | 1.71 SP2 | Nov. 02, 2023 | Nov. 01, 2024 |
| 3 | EMI Test Receiver (9kHz-7GHz) | R&S | ESCI7 | 100969 | 4.32 | Nov. 02, 2023 | Nov. 01, 2024 |
| 4 | Bilog Antenna (30MHz-1500MHz) | Schwarzbeck | VULB9168 | N/A | N/A | Nov. 13, 2023 | Nov. 12, 2024 |
| 5 | Horn Antenna (1GHz-18GHz) | Agilent | AH-118 | 071145 | N/A | Nov. 13, 2023 | Nov. 12, 2024 |
| 6 | Horn Antenna (15GHz-40GHz) | A.H.System | SAS-574 | 588 | N/A | Nov. 13, 2023 | Nov. 12, 2024 |
| 7 | Loop Antenna | TESEQ | HLA6121 | 58357 | N/A | Nov. 16, 2023 | Nov. 15, 2024 |
| 8 | Amplifier (30-1000MHz) | EM Electronics | EM330 Amplifier | 60747 | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 9 | Amplifier (1GHz-26.5GHz) | HuiPu | 8449B | 3008A00315 | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 10 | Amplifier (500MHz-40GHz) | QuanJuDa | DLE-161 | 097 | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 11 | Test Cable | N/A | R-01 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 12 | Test Cable | N/A | R-02 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 13 | Test Cable | N/A | R-03 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 14 | Test Cable | N/A | RF-01 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 15 | Test Cable | N/A | RF-02 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 16 | Test Cable | N/A | RF-03 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 17 | ESG Signal Generator | Agilent | E4421B | N/A | B.03.84 | Nov. 02, 2023 | Nov. 01, 2024 |
| 18 | Signal Generator | Agilent | N5182A | N/A | A.01.87 | Nov. 02, 2023 | Nov. 01, 2024 |
| 19 | Magnetic Field Probe Tester | Narda | ELT-400 | 0-0344 | N/A | Nov. 16, 2023 | Nov. 15, 2024 |
| 20 | Wideband Radio Communication Test | R&S | CMW500 | 106504 | V 3.7.22 | Nov. 02, 2023 | Nov. 01, 2024 |
| 21 | MWRF Power Meter Test system | MW | MW100-RF CB | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 22 | D.C. Power Supply | LongWei | TPR-6405D | N/A | N/A | \ | \ |
| 23 | EMC Software | Frad | EZ-EMC | Ver.EMC-CO N 3A1.1 | N/A | \ | \ |
| 24 | RF Software | MW | MTS8310 | V2.0.0.0 | N/A | \ | \ |
| 25 | Turntable | MF | MF-7802BS | N/A | N/A | \ | \ |
| 26 | Antenna tower | MF | MF-7802BS | N/A | N/A | \ | \ |



Conduction Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Firmware Version | Last calibration | Calibrated until |
|------|---------------------|--------------|----------|-------------------|------------------|------------------|------------------|
| 1 | LISN | R&S | ENV216 | 101471 | N/A | Nov. 14, 2023 | Nov. 13, 2024 |
| 2 | LISN | CYBERTEK | EM5040A | E1850400149 | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 3 | Test Cable | N/A | C-01 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 4 | Test Cable | N/A | C-02 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 5 | Test Cable | N/A | C-03 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 6 | EMI Test Receiver | R&S | ESCI3 | 101393 | 4.42 SP3 | Nov. 02, 2023 | Nov. 01, 2024 |
| 7 | Triple-Loop Antenna | N/A | RF300 | N/A | N/A | Nov. 02, 2023 | Nov. 01, 2024 |
| 8 | Absorbing Clamp | DZ | ZN23201 | 15034 | N/A | Nov. 07, 2023 | Nov. 06, 2024 |
| 9 | EMC Software | Frad | EZ-EMC | Ver.EMC-CON 3A1.1 | N/A | \ | \ |



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

| | |
|-----------------------|--------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.207 |
| Test Method: | ANSI C63.10:2013 |
| Test Frequency Range: | 150KHz to 30MHz |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto |

4.1.1 POWER LINE CONDUCTED EMISSION Limits

| FREQUENCY (MHz) | Limit (dBuV) | | Standard |
|-----------------|--------------|-----------|----------|
| | Quas -peak | Average | |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 56.00 | 46.00 | FCC |
| 5.0 -30.0 | 60.00 | 50.00 | FCC |

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

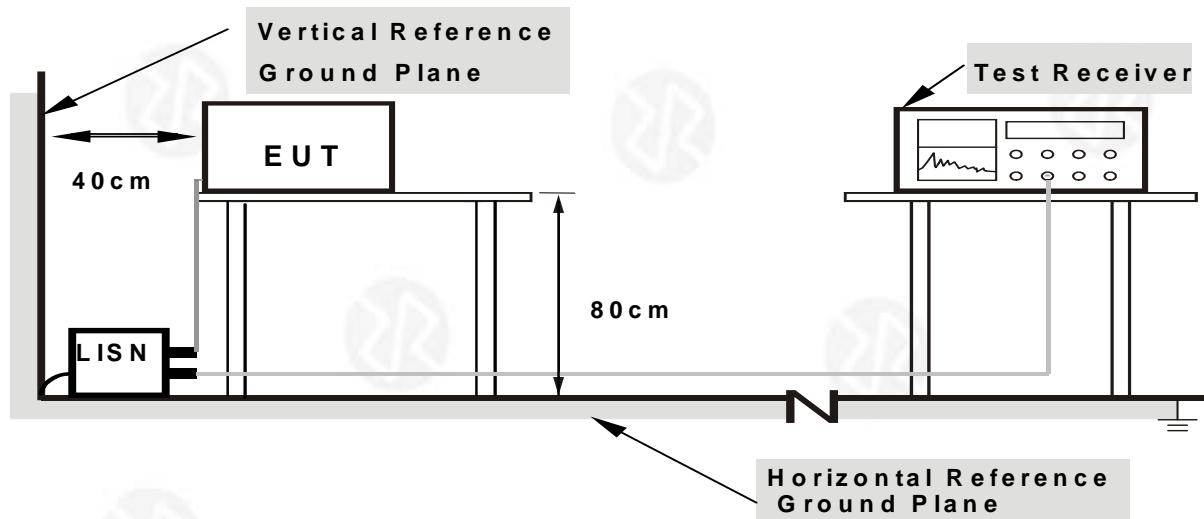
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 TEST SETUP



Note:

1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 TEST RESULTS

N/A



4.2 RADIATED EMISSION MEASUREMENT

| Test Requirement: | FCC Part15 C Section 15.209 | | | | |
|-----------------------|-----------------------------|------------|--------|--------|------------|
| Test Method: | ANSI C63.10:2013 | | | | |
| Test Frequency Range: | 9kHz to 1GHz | | | | |
| Test site: | Measurement Distance: 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value |
| | 9KHz-150KHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak |
| | 150KHz-30MHz | Quasi-peak | 9KHz | 30KHz | Quasi-peak |
| | 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | | Peak | 1MHz | 10Hz | Average |

4.2.1 RADIATED EMISSION LIMITS

| Frequencies (MHz) | Field Strength (microvolt/meter) | Measurement Distance (meters) |
|----------------------|-------------------------------------|----------------------------------|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

g. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note:

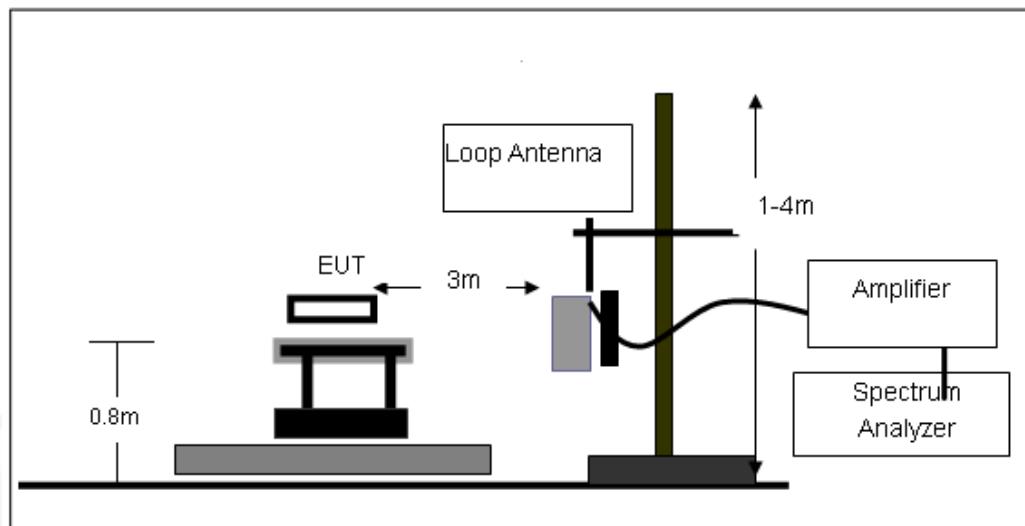
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

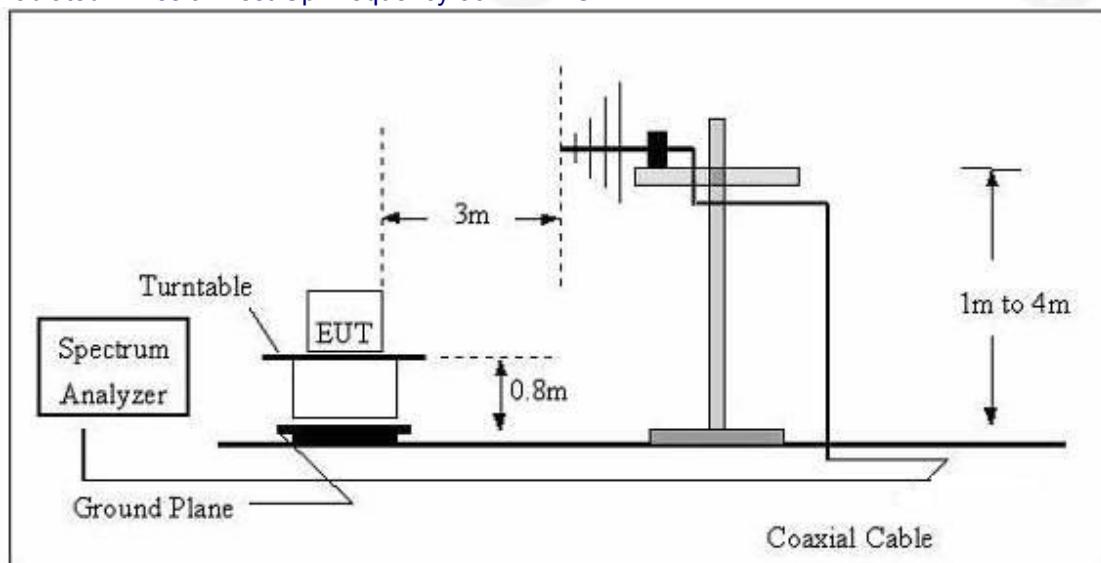
No deviation

4.2.4 TEST SETUP

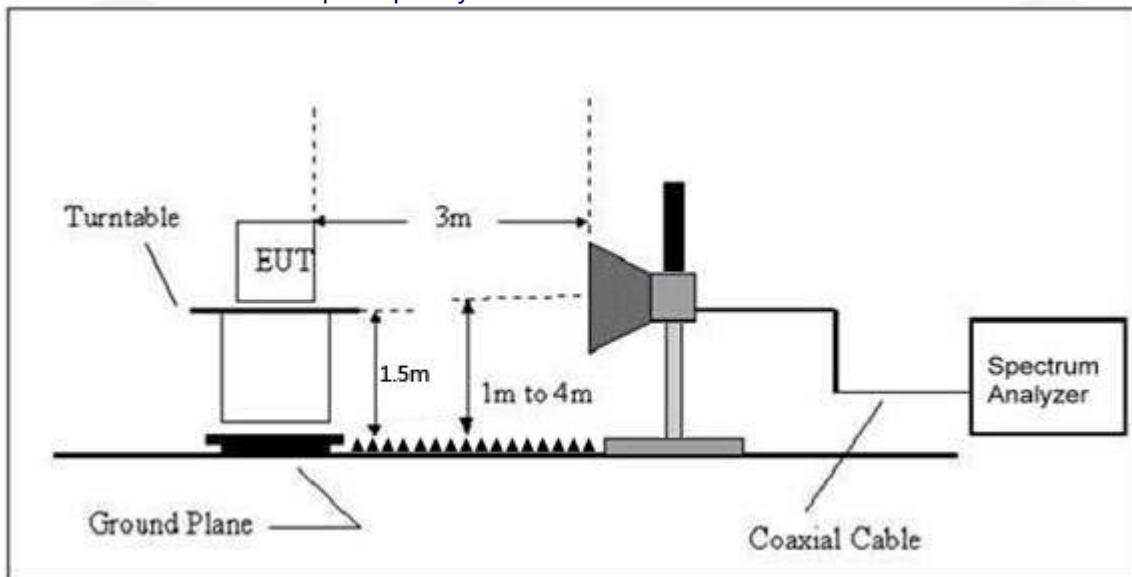
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.2.6 TEST RESULTS

Between 9KHz – 30 MHz

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|-------------------------------|----------------|----------------------------------|--------------------------|----------------|---------------|
| 0.010 | 32.69 | 22.39 | 55.08 | 128.02 | -72.94 | Average |
| 0.039 | 35.46 | 20.79 | 56.25 | 115.83 | -59.58 | Average |
| 0.125 | 52.43 | 45.36 | 97.79 | 105.66 | -7.87 | Average |
| 1.456 | 23.64 | 21.19 | 44.83 | 64.34 | -19.51 | Peak |
| 3.468 | 24.79 | 21.76 | 46.55 | 69.54 | -19.51 | Peak |
| 11.613 | 22.42 | 23.57 | 45.99 | 69.54 | -23.55 | Peak |
| 25.98 | 37.59 | 15.15 | 52.74 | 79.31 | -26.57 | Peak |

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

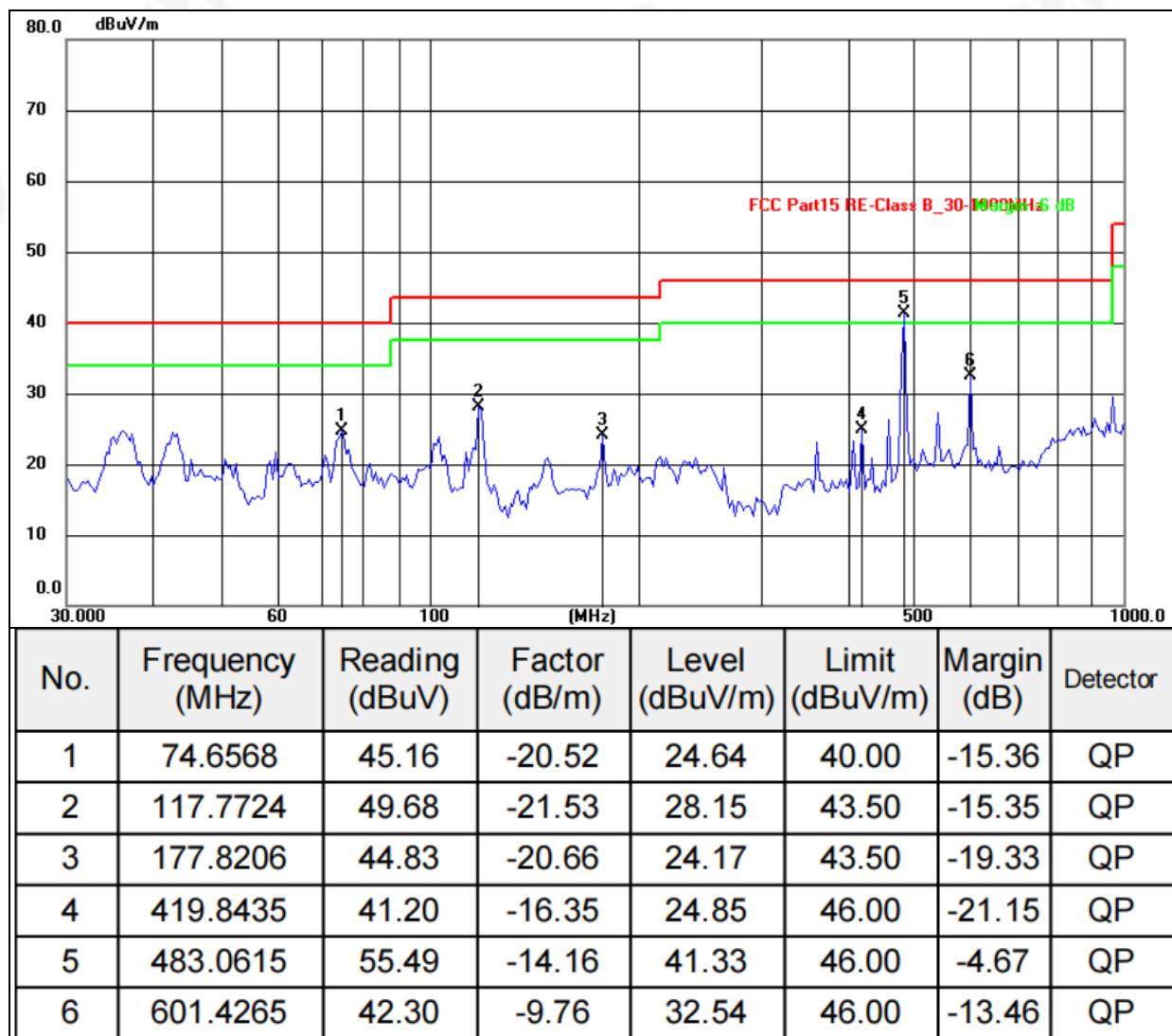
Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.



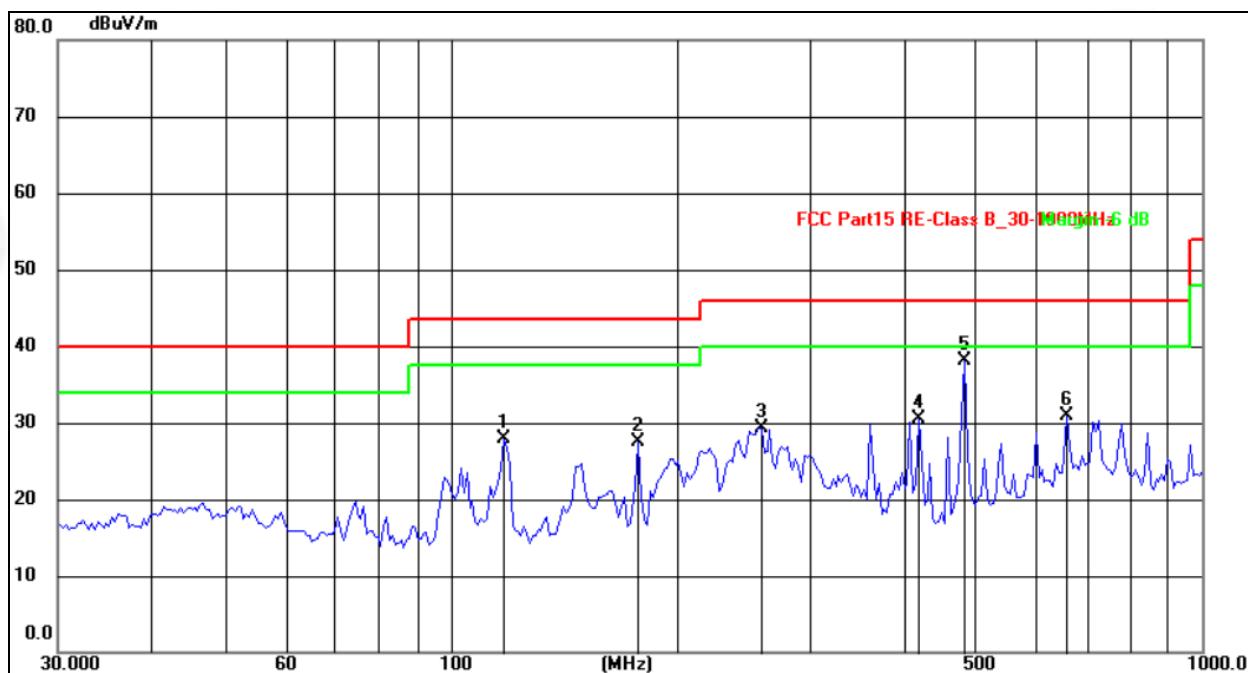
Between 30MHz – 1GHz

Horizontal





Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 117.7724 | 46.83 | -18.89 | 27.94 | 43.50 | -15.56 | QP |
| 2 | 177.8206 | 45.96 | -18.44 | 27.52 | 43.50 | -15.98 | QP |
| 3 | 259.2336 | 46.52 | -17.18 | 29.34 | 46.00 | -16.66 | QP |
| 4 | 419.8435 | 48.05 | -17.60 | 30.45 | 46.00 | -15.55 | QP |
| 5 | 483.0615 | 52.60 | -14.46 | 38.14 | 46.00 | -7.86 | QP |
| 6 | 662.3106 | 40.48 | -9.50 | 30.98 | 46.00 | -15.02 | QP |

Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



5. CHANNEL BANDWIDTH

| | |
|-------------------|-----------------------------|
| Test Requirement: | FCC Part15 C Section 15.215 |
| Test Method: | ANSI C63.10: 2013 |

5.1 APPLIED PROCEDURES / LIMIT

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment complies with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be demonstrated by measuring the radiated emissions.

5.2 TEST PROCEDURE

1. Set RBW = 1 kHz.
2. Set the video bandwidth (VBW) \geq RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

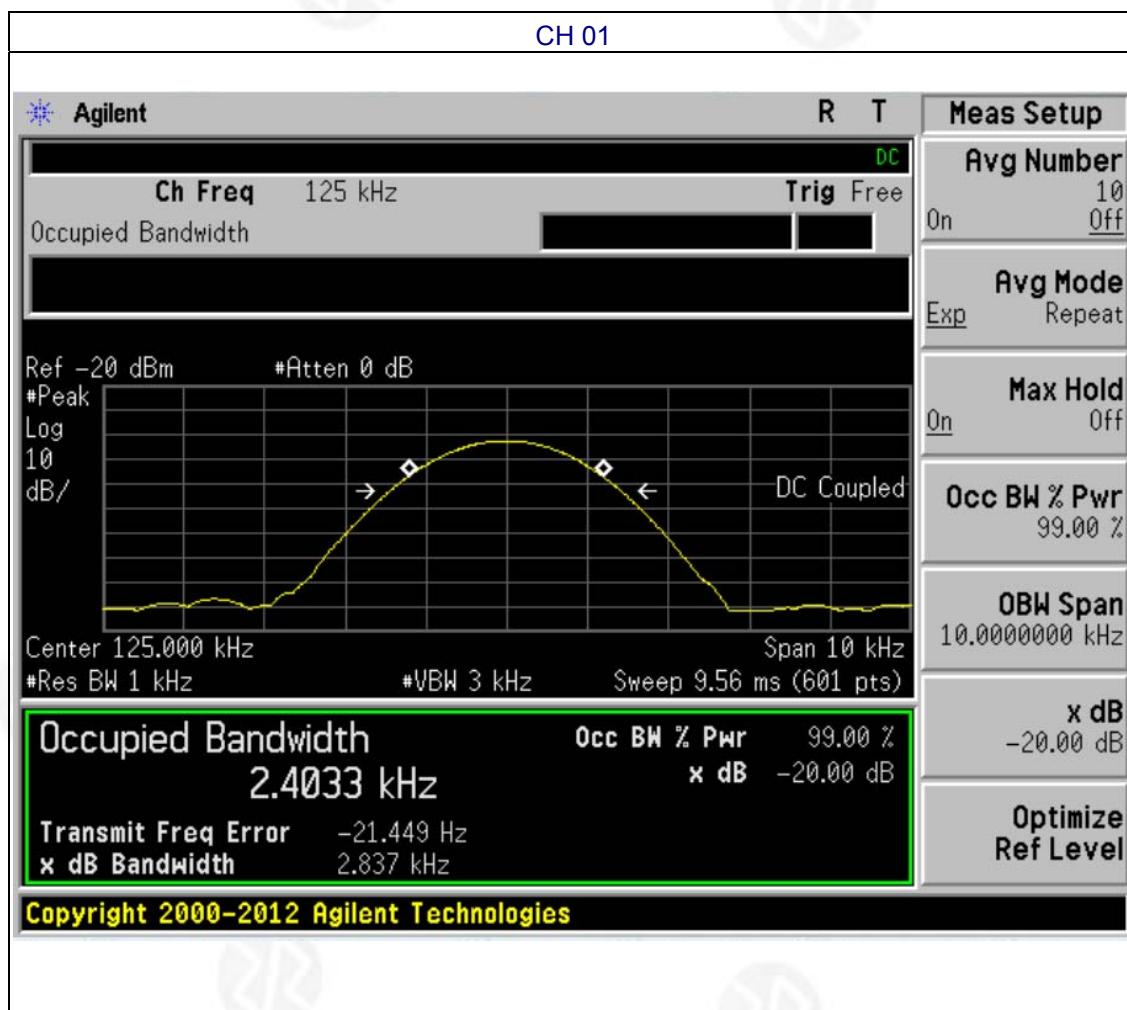
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TEST RESULT

| | | | |
|---------------|------|---------------------|---------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Test Mode : | ASK | Test Voltage : | DC 3.7V |

| Test channel | 20dB Channel Bandwidth (KHz) | Result |
|--------------|------------------------------|--------|
| 1 | 2.403 | Pass |





7. ANTENNA REQUIREMENT

| | |
|---|-----------------------------|
| Standard requirement: | FCC Part15 C Section 15.203 |
| 15.203 requirement: 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. | |
| EUT Antenna: | |
| The antennas is Coil antenna, the best case gain of the antennas is 0dBi, reference to the appendix II for details | |



8. TEST SETUP PHOTO

Reference to the appendix I for details.

9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

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