



47 CFR PART 15B

TEST REPORT

of

Mobile Phone

Trade Name: eTouch
Brand Name: eTouch
Model Name: TD260
Report No.: SZ09080048E01
FCC ID.: XOO-WLSTD260

prepared for

Wireless Solutions Ltd

Unit 2026—2030, 20/F, Corporation Park, 11 On Lai Street, Shatin, N.T., HongKong

prepared by
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CTIA Authorized Test Lab
LAB CODE 20081223-00

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| Change History | | |
|----------------|--------------------|-------------------|
| Issue | Date | Reason for change |
| 1.0 | September 02, 2009 | First edition |
| | | |
| | | |

1. TEST CERTIFICATION

Equipment under Test: Mobile Phone

Brand Name: eTouch

Model Name: TD260

FCC ID: XOO-WLSTD260

Applicant: Wireless Solutions Ltd

Unit 2026—2030, 20/F, Corporation Park, 11 On Lai Street, Shatin, N.T.,
HongKong

Manufacturer: Uniscope.

Floor 5, Building 11, No.99, Tian Zhou Road, Shanghai, China 20023.

Emission Designator 300KGXW

Test Standards: 47 CFR Part 15 Subpart B

Test Date(s): August 25, 2009 – August 28, 2009

Test Result: PASS

*** We Hereby Certify That:**

The equipment under test was tested by Shenzhen Electronic Product Quality Testing Center Morlab Laboratory. The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the requirement of related FCC rules.

The test results of this report only apply for the tested sample equipment identified above. The test report shall be invalid without all the signatures of the test engineer, the reviewer and the approver.

Tested by: Ni Yong Dated: 2009.09.02
Ni Yong

Reviewed by: Jiao Jianming Dated: 2009.09.02
Jiao Jianming certificate

Approved by: Shu Luan Dated: 2009.09.02
Shu Luan

2. GENERAL INFORMATION

2.1 EUT Description

EUT Type Mobile Phone

Model Name..... TD260

Serial No. (n.a, marked #1 by test site)

Hardware Version..... 00

Software Version U26GEMIN.V9B08

Modulation Type GMSK

Power Supply Battery

Model Name: TD260

Brand name: ETouch

Capacitance: 900mAh

Rated voltage: 3.7V

Manufacturer: SHENZHEN ZHIYIN ELECTRONIC CO., LTD.

Manufacturer Address: Bld. B17, ShanSha Industrial Area, PingHu Town, Shenzhen, China.

Ancillary Equipment 1 AC Adapter (Charger for Battery)

Model name: TD260

Brand name: ETouch

Rated Input: ~ 100-240V, 50/60Hz

Rated Output: == 5V, 500mA

Manufacturer: Shenzhen Tailing Technology Co., LTD

Manufacturer Address: No.D, OA-04 District, Third Industrial Estate, Feng Hung, Fu Yong, Shenzhen, China

Note 1: The EUT is a GSM/GPRS Mobile Phone; it supports GSM 850MHz, 900MHz, 1800MHz, 1900MHz and ISM 2.4GHz Bluetooth module. GSM 850MHz and 1900MHz are tested in this report.

Note 2: The EUT is equipped with a T-Flash card slot; equipped with a special port which can be connected to the ancillary equipments supplied by the manufacturer e.g. the AC Adapter and the USB Adapter Cable.

Note 3: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



2.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

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

Test detailed items/section required by FCC rules and results are as below:

| No. | Section | Description | Result | Test date |
|-----|---------|--------------------|--------|-----------|
| 1 | 15.107 | Conducted Emission | PASS | 2009-8-27 |
| 2 | 15.109 | Radiated Emission | PASS | 2009-8-25 |

NOTE:

The tests were performed according to the method of measurements prescribed in ANSI C63.4 2003.

2.3 Facilities and Accreditations

2.3.1 Facilities

Shenzhen Electronic Product Quality Testing Center Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

All measurement facilities used to collect the measurement data are located at Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen 518055 CHINA. The test site is constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22; the FCC registration number is 741109.

2.3.2 Test Environment Conditions

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

| | |
|-----------------------------|---------|
| Temperature (°C): | 20 - 25 |
| Relative Humidity (%): | 40 - 60 |
| Atmospheric Pressure (kPa): | 96 |

2.3.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

| | |
|------------------------------------|--------|
| Uncertainty of Conducted Emission: | ±1.8dB |
| Uncertainty of Radiated Emission: | ±3.1dB |

3. TEST CONDITIONS SETTING

3.1 Test Mode

1. GSM Test Mode

(1) The first test mode (GSM)

The EUT configuration of the emission tests is EUT + Battery + Charger+ Bluetooth earphone.

During the measurement of Traffic operating mode, a communication link was established between the EUT and a System Simulator (SS). The EUT operated at GSM 850MHz mid ARFCN (190) and maximum output power (level 5).

A communication link was established between the EUT and the Bluetooth earphone, and maintained until test end.

(2) The second test mode (GPRS)

The EUT configuration of the emission tests is EUT + Battery + Charger.

In this test mode, a GPRS link was established between the EUT and a System Simulator (SS); date was transmitted between EUT and System Simulator (SS), and maintained during the measurement.

NOTE: All test modes are performed, only the worst cases are recorded in this report.

2. USB Test Mode

(1) The first test mode (USB)

The EUT configuration of the emission tests is TransFlash Card + EUT + Battery + PC.

In this test mode, the EUT with a TransFlash Card embedded is connected with a PC via a special USB cable supplied by applicant. During the measurement, a communication link was established between the EUT and a System Simulator (SS), simultaneity, the date is transmitting between the PC and the TransFlash Card of the EUT.

(2) The second test mode (PC Web Camera)

The EUT configuration of the emission tests is EUT + Battery + PC.

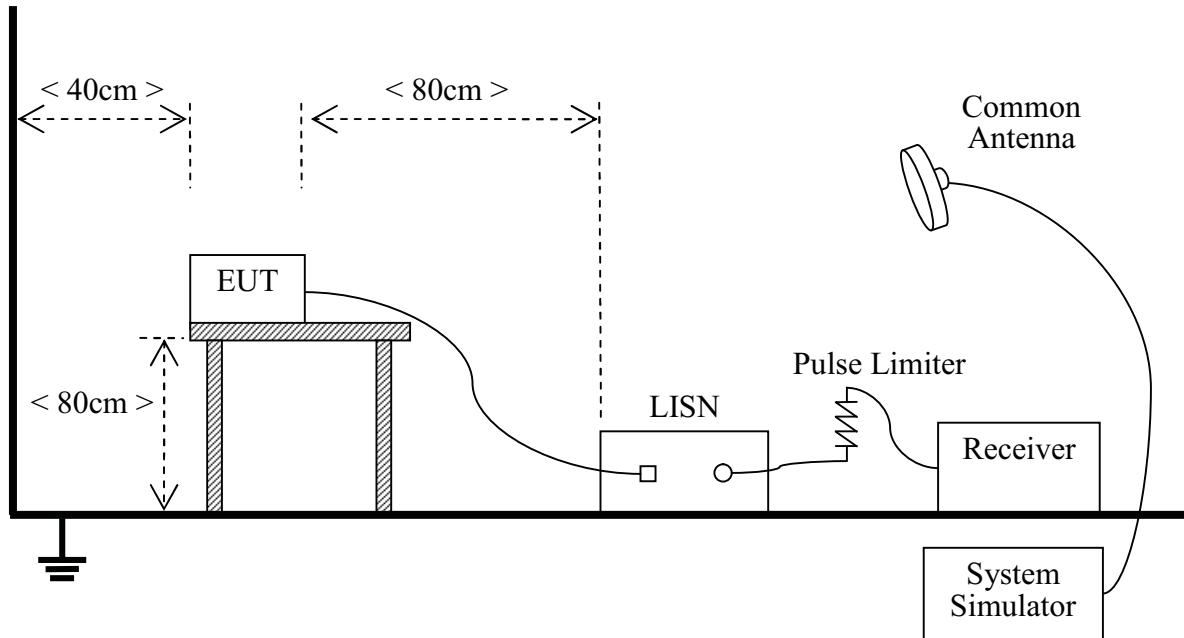
The EUT supports PC Web Camera function. During the measurement, the EUT was connected with a PC via a special USB cable supplied by applicant, and the EUT working by way of the PC Web Camera.

NOTE: These test modes are performed, only the worst cases are recorded in this report.

3.2 Test Setup and Equipments List

3.2.1 Conducted Emission

A. Test Setup:



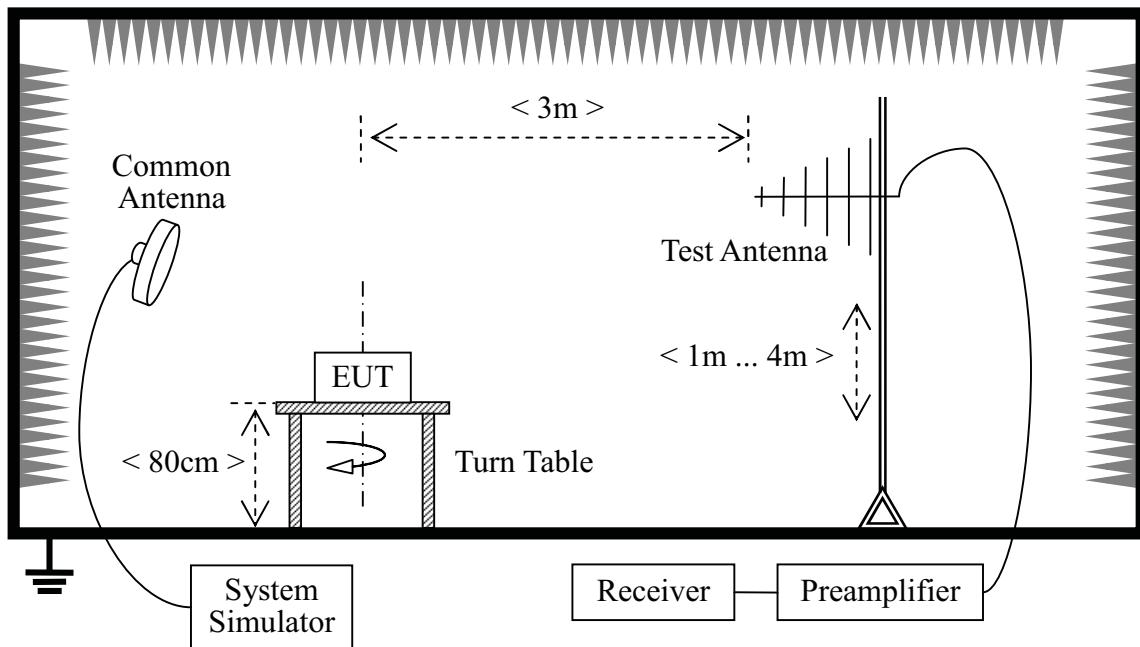
The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides $50\Omega/50\mu\text{H}$ of coupling impedance for the measuring instrument. The Common Antenna is used for the call between the EUT and the System Simulator (SS). A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

B. Equipments List:

| Description | Manufacturer | Model | Serial No. | Cal. Date | Cal. Due |
|----------------------|--------------|-------------|------------|------------|----------|
| Receiver | Agilent | E7405A | US44210471 | 2008.09.21 | 1year |
| LISN | Schwarzbeck | NSLK 8127 | 812744 | 2008.09.21 | 1year |
| Pulse Limiter (20dB) | Schwarzbeck | VTSD 9561-D | 9391 | (n.a.) | (n.a.) |
| System Simulator | Agilent | E5515C | GB43130131 | 2008.09.21 | 1year |
| Personal Computer | IBM | IBM_T20 | (n.a.) | (n.a.) | (n.a.) |
| Bluetooth-Headset | Nokia | HS-36W | (n.a.) | (n.a.) | (n.a.) |
| T-Flash Card | SanDisk | 256MB | (n.a.) | (n.a.) | (n.a.) |

3.2.2 Radiated Emission

C. Test Setup:



The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on a variable-height antenna master tower. The Common Antenna is used for the call between the EUT and the System Simulator (SS).

D. Equipments List:

| Description | Manufacturer | Model | Serial No. | Cal. Date | Cal. Due |
|-----------------------|--------------|------------|------------|------------|----------|
| Receiver | Agilent | E7405A | US44210471 | 2008.09.21 | 1year |
| Semi-Anechoic Chamber | Albatross | 9m*6m*6m | (n.a.) | 2008.09.21 | 2year |
| Test Antenna - Bi-Log | Schwarzbeck | VULB 9163 | 9163-274 | 2008.09.21 | 1year |
| Test Antenna - Horn | Schwarzbeck | BBHA 9120C | 9120C-384 | 2008.09.21 | 1year |
| System Simulator | Agilent | E5515C | GB43130131 | 2008.09.21 | 1year |
| Personal Computer | IBM | IBM_T20 | (n.a.) | (n.a.) | (n.a.) |
| Bluetooth-Headset | Nokia | HS-36W | (n.a.) | (n.a.) | (n.a.) |
| T-Flash Card | SanDisk | 256MB | (n.a.) | (n.a.) | (n.a.) |

4. 47 CFR PART 15B REQUIREMENTS

4.1 Conducted Emission

4.1.1 Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

| Frequency range (MHz) | Conducted Limit (dB μ V) | |
|-----------------------|------------------------------|----------|
| | Quasi-peak | Average |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 |
| 0.50 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

NOTE:

- a) The limit subjects to the Class B digital device.
- b) The lower limit shall apply at the band edges.
- c) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

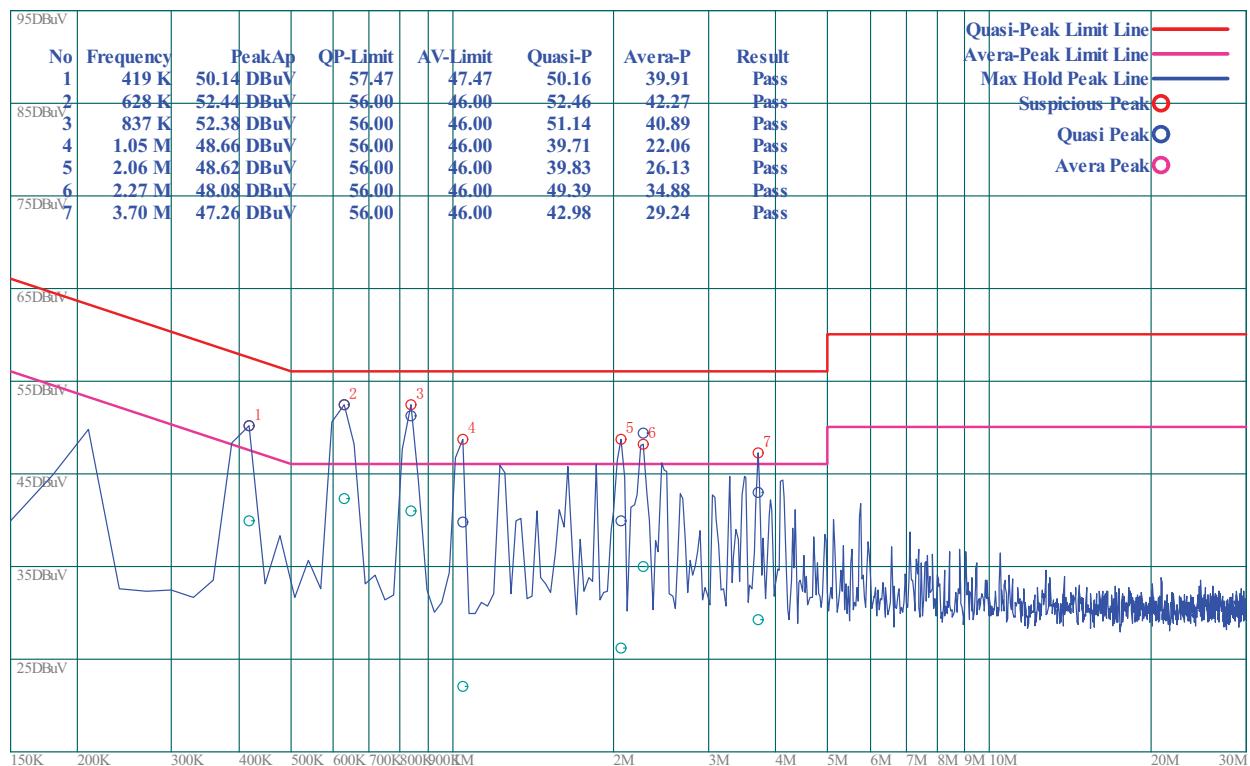
4.1.2 Test Description

See section 3.2.1 of this report.

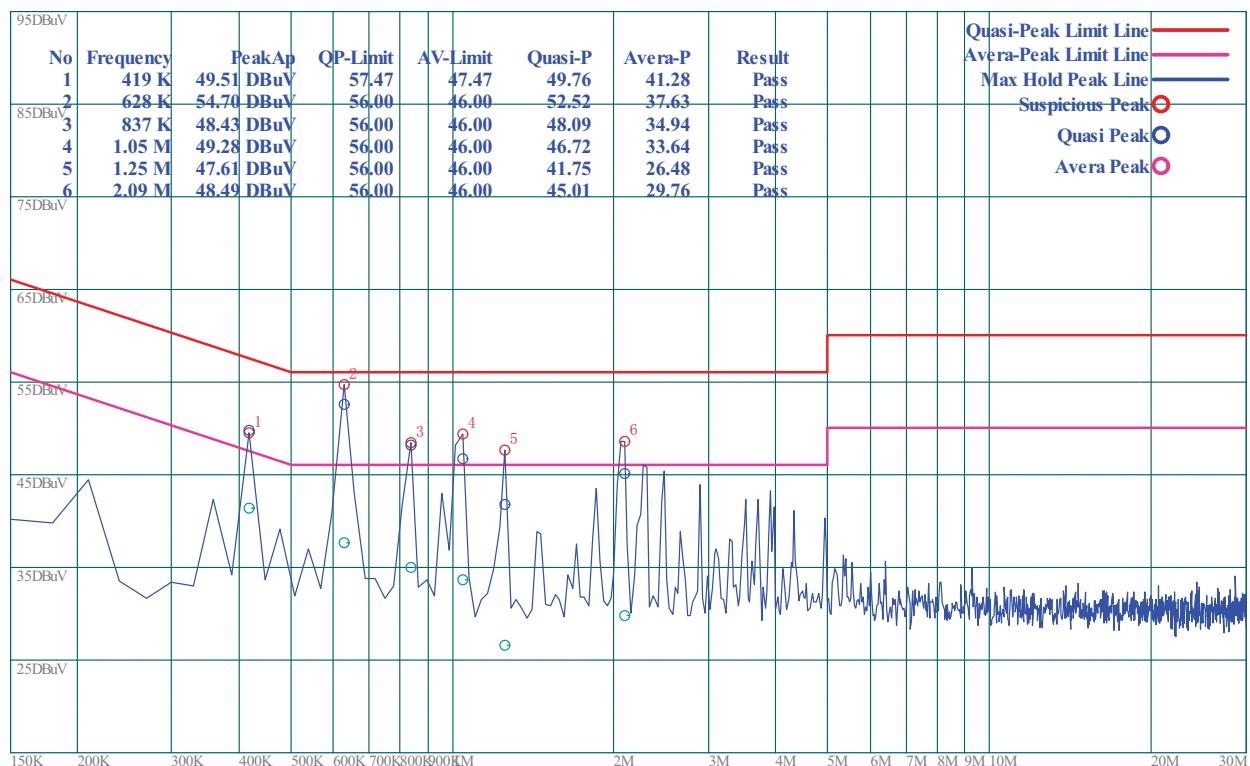
4.1.3 Test Result

The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.

4.1.3.1 GSM Test Mode

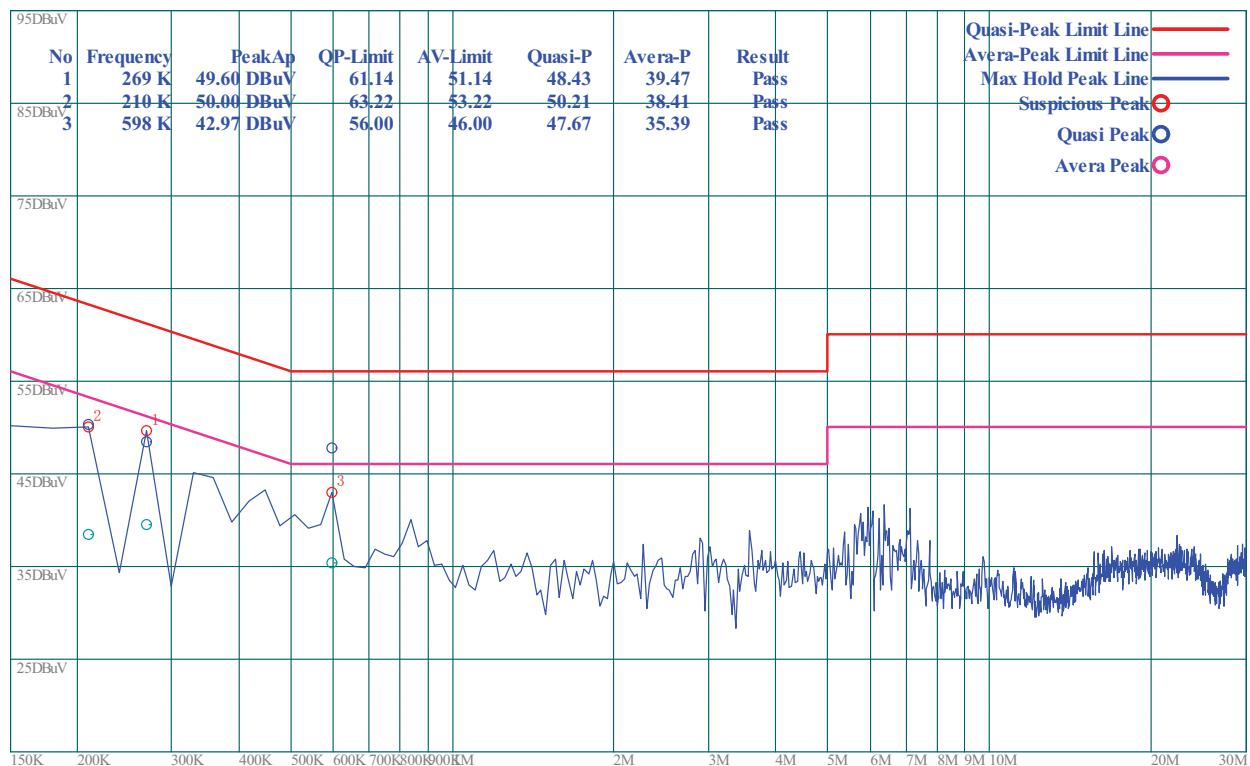


(Plot A: L Phase)

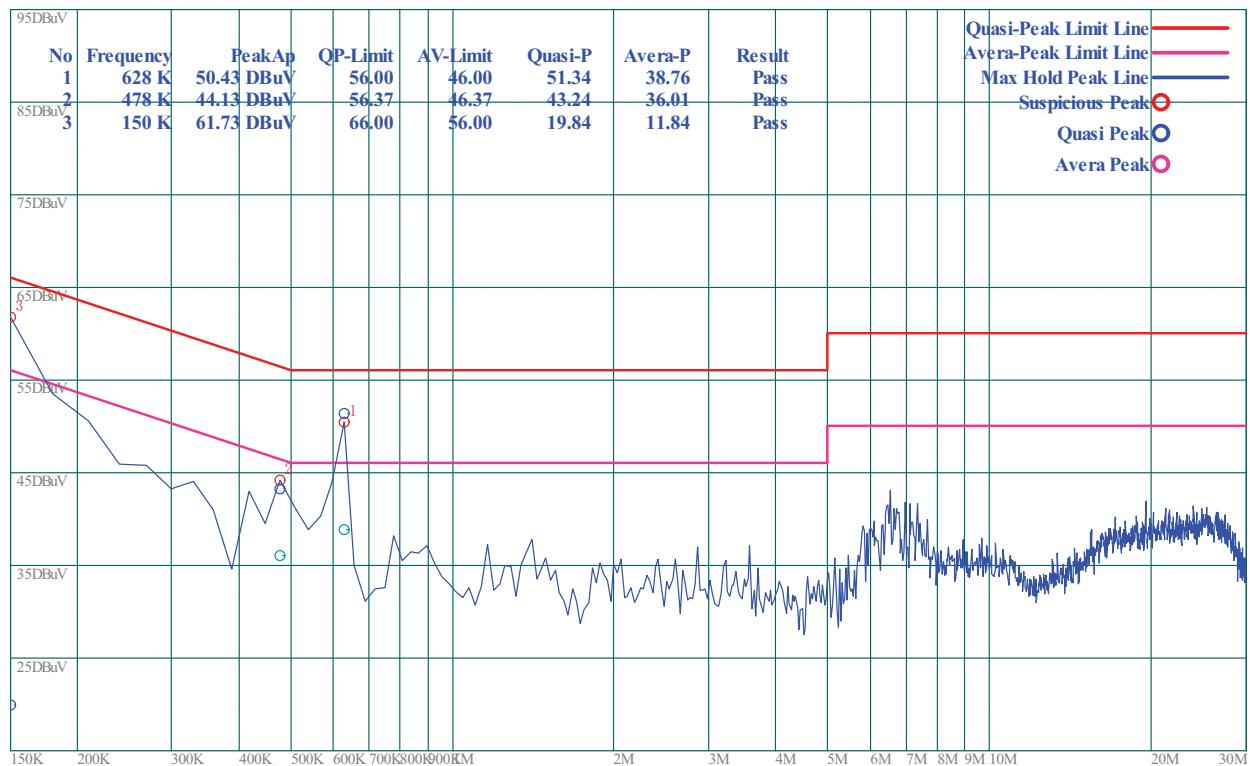


(Plot B: N Phase)

4.1.3.2 USB Test Mode



(Plot A: L Phase)



(Plot B: N Phase)

4.2 Radiated Emission

4.2.1 Requirement

According to FCC section 15.109, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency range (MHz) | Field Strength | |
|-----------------------|----------------|--------------|
| | μ V/m | dB μ V/m |
| 30 - 88 | 100 | 40 |
| 88 - 216 | 150 | 43.5 |
| 216 - 960 | 200 | 46 |
| Above 960 | 500 | 54 |

NOTE:

- Field Strength (dB μ V/m) = $20 \log_{10} [\text{Field Strength } (\mu\text{V/m})]$.
- In the emission tables above, the tighter limit applies at the band edges.

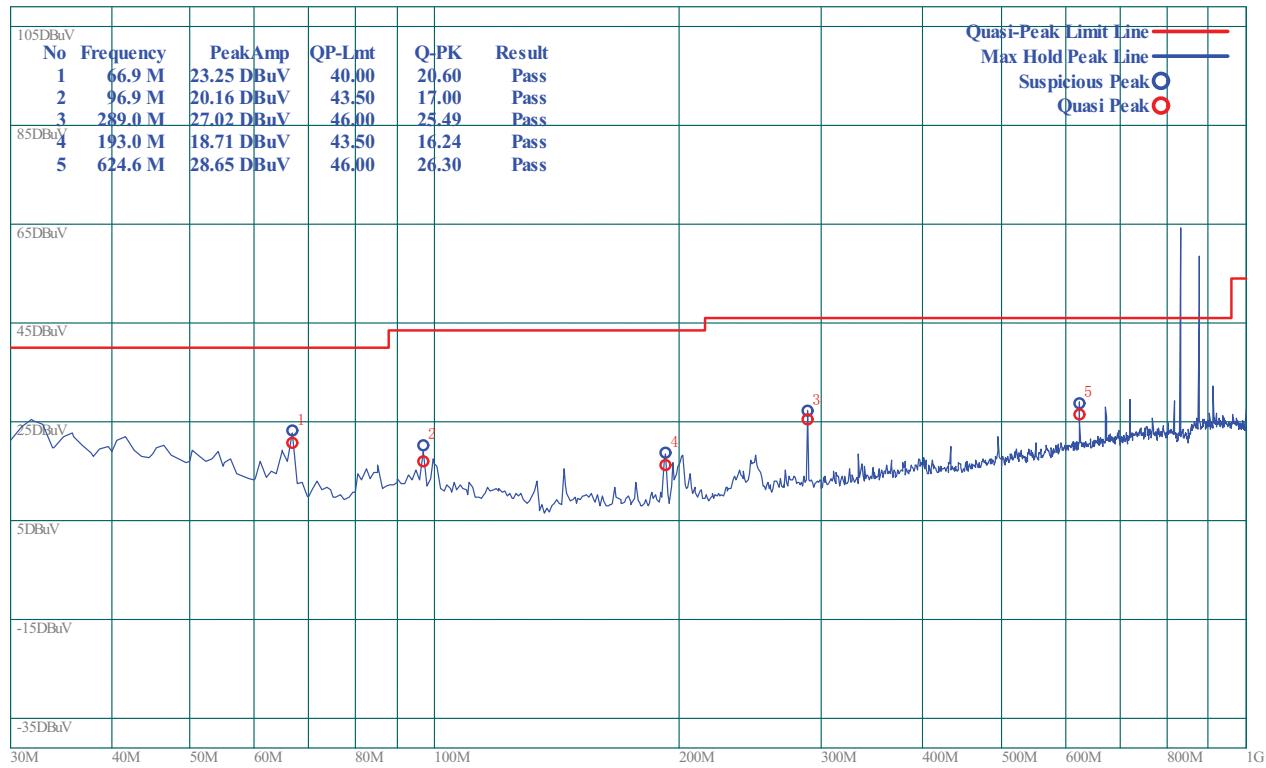
4.2.2 Test Description

See section 3.2.2 of this report.

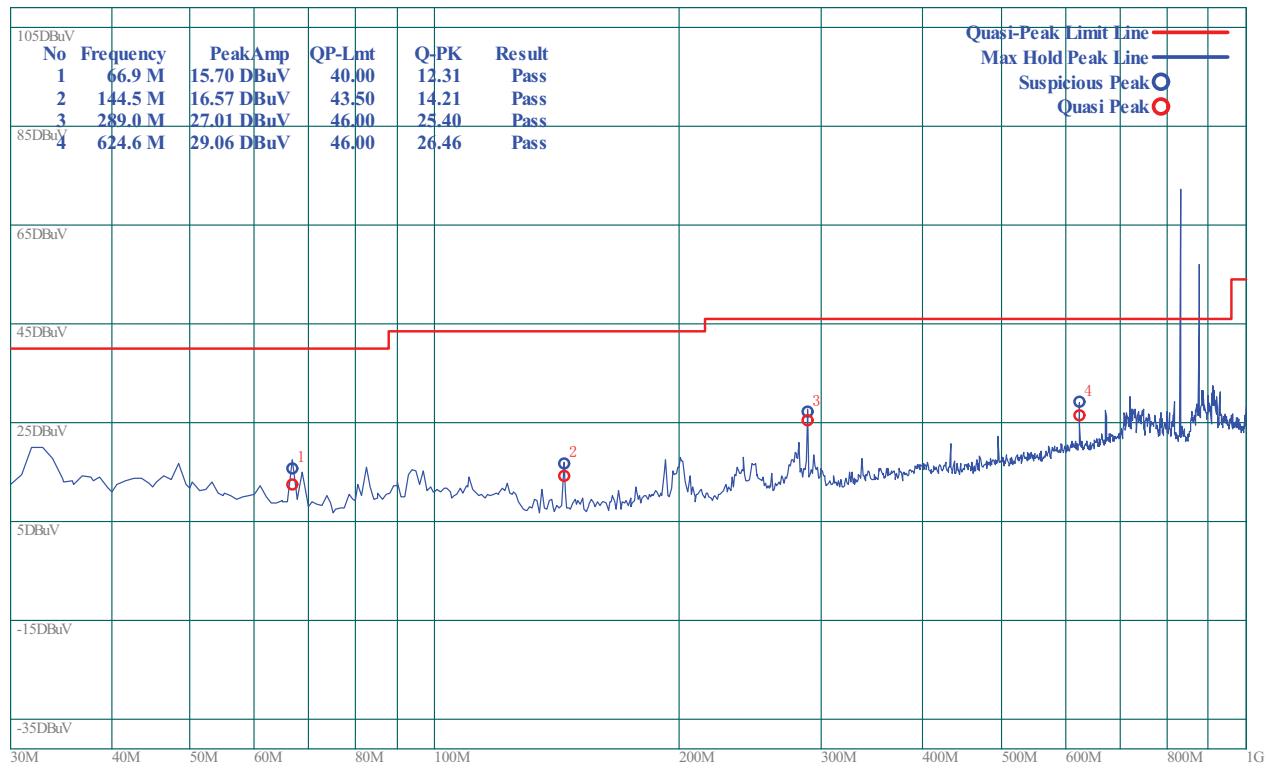
4.2.3 Test Result

The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

4.2.3.1 GSM Test Mode

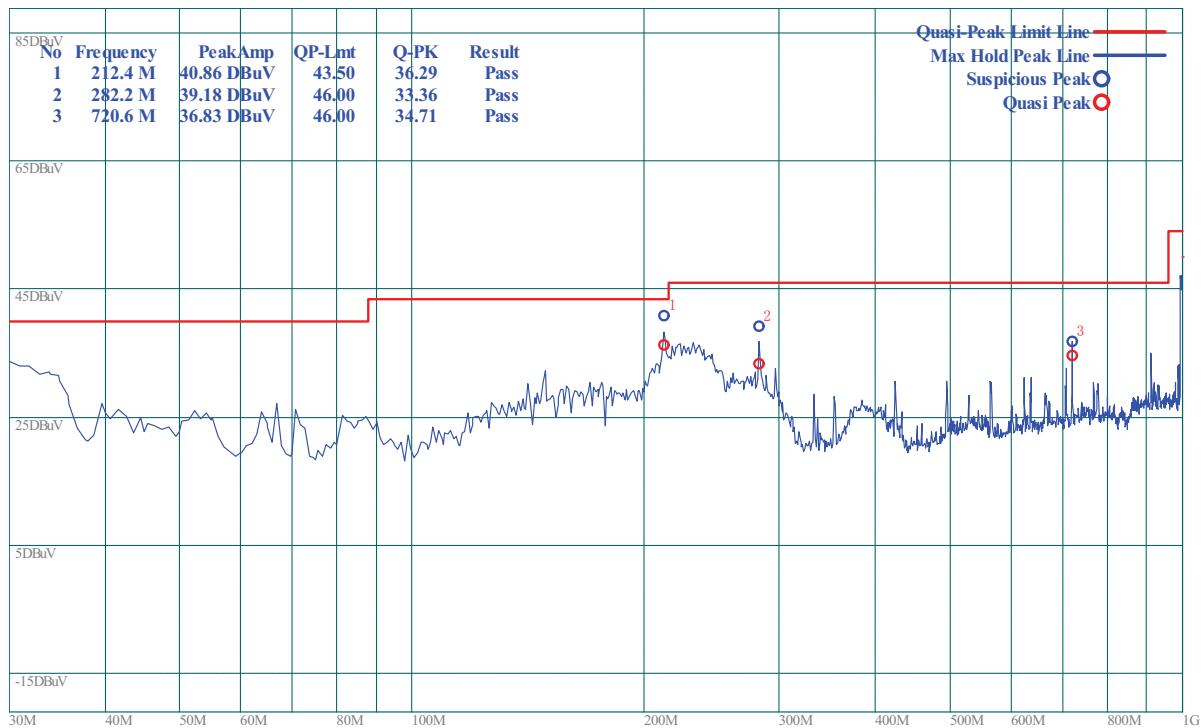


(Plot A: Test Antenna Vertical)

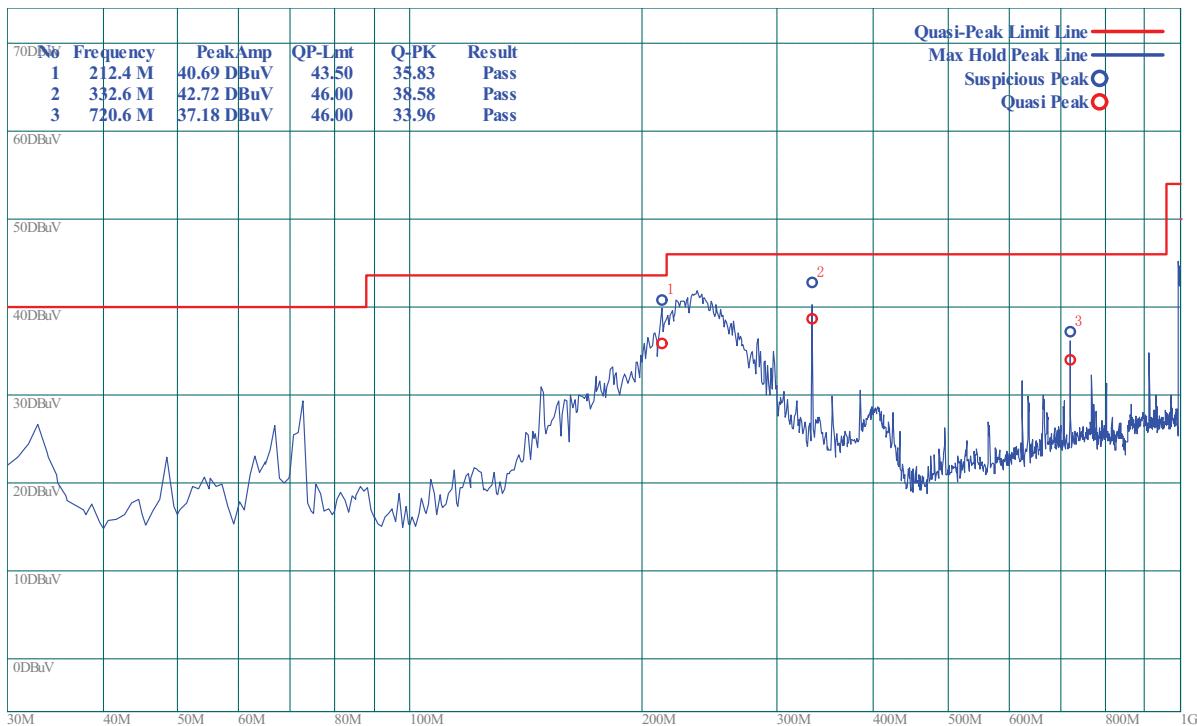


(Plot B: Test Antenna Horizontal)

4.2.3.2 USB Test Mode



(Plot A: Test Antenna Vertical)



(Plot B: Test Antenna Horizontal)

** END OF REPORT **