



47 CFR PART 15B

TEST REPORT

Of

Media Touch

Trade Name: technicolor
Brand Name: Media Touch
Model Name: TVA201
Report No.: SZ10080166E02
FCC ID: G95-TVA201

prepared for

Beijing Thomson Commerce Co., Ltd

6/F, Building A Technology Fortune Center, No.8 Xue Qing Road, Hai Dian District,
Beijing, China

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Bluetooth®

CTIA Authorized Test Lab

LAB CODE 20081223-00

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TABLE OF CONTENTS

1. TEST CERTIFICATION.....	3
2. GENERAL INFORMATION	4
2.1 EUT Description	4
2.2 Test Standards and Results	5
2.3 Facilities and Accreditations.....	6
2.3.1 Facilities	6
2.3.2 Test Environment Conditions.....	6
2.3.3 Measurement Uncertainty	6
3. TEST CONDITIONS SETTING	7
3.1 Test Setup and Equipments List.....	8
3.1.1 Conducted Emission	8
3.1.2 Radiated Emission.....	9
4. 47 CFR PART 15B REQUIREMENTS	10
4.1 Conducted Emission.....	10
4.1.1 Requirement	10
4.1.2 Test Description	10
4.1.3 Test Result.....	10
4.2 Radiated Emission	12
4.2.1 Requirement	12
4.2.2 Test Description	12
4.2.3 Test Result.....	12

Change History		
Issue	Date	Reason for change
1.0	November 10, 2010	First edition

1. TEST CERTIFICATION

Equipment under Test: Media Touch

Trade Name: technicolor

Brand Name: Media Touch

Model Name: TVA201

FCC ID: G95-TVA201

Applicant: Beijing Thomson Commerce Co., Ltd
6/F, Building A Technology Fortune Center, No.8 Xue Qing Road, Hai
Dian District, Beijing, China

Manufacturer: Hong Fu Jin Percision Industry (Shen Zhen) Co., Ltd
No.2, 2nd Donghuan Road 10th Yousong Industrial District Longhua Town,
Baoan, Shenzhen, Guang Dong, China

Test Standards: 47 CFR Part 15 Subpart B

Test Date(s): September 03, 2010 - September 21, 2010

Test Result: PASS

* We Hereby Certify That:

The equipment under test was tested by Shenzhen Morlab Communications Technology Co., Ltd. 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.

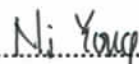
Tested by:


Cao Shaocong

Dated:

2010.11.10


Reviewed by:


Ni Yong

Dated:

2010.11.10

Approved by:


Shu Luan

Dated:

2010.11.10



2. GENERAL INFORMATION

2.1 EUT Description

EUT Type Media Touch
Model Name TVA201
Serial No. (n.a, marked #1 by test site)
Hardware Version PEM3
Software Version V006
Modulation Type DSSS, OFDM
Power Supply Battery
 Brand Name: technicolor
 Model No.: GSP 065590
 Serial No.: (n.a. marked #1 by test site)
 Capacitance: 3450mAh
 Rated Voltage: 3.7V
 Manufacturer: Sunwoda Electronic Co., Ltd
Ancillary Equipment 1 ... AC Adapter (Charger for Battery)
 Brand Name: (n.a)
 Model Name: MU18-D150120-A1
 Serial No.: (n.a. marked #1 by test site)
 Rated Input: 100- 240V~, 0.6A, 50/60Hz
 Rated Output: 15V $\overline{\text{=}}$, 1.2A
 Manufacturer: Leader Electronics Inc.

Note 1: The EUT is the Wireless Internet connected portable device controlled by a touch panel and supporting services around multimedia, communication and infotainment. And the EUT also contains a DECT module supports 1800MHz Band, it based GFSK modulation to transmit voice data.

Note 2: The EUT is equipped with a SD 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. The EUT can play the video and audio on a TV.

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 (10-1-09 Edition)	Radio Frequency Devices

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

No.	Section	Description	Result
1	15.107	Conducted Emission	PASS
2	15.109	Radiated Emission	PASS

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 Morlab Communications Technology Co., Ltd. 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 L3572.

All measurement facilities used to collect the measurement data are located at 3/F, Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen, 518055 P. R. 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):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

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:	$\pm 1.8\text{dB}$
Uncertainty of Radiated Emission:	$\pm 3.1\text{dB}$

3. TEST CONDITIONS SETTING

During the measurement, the test modes of the EUT are showed as below:

(1) The first test mode

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

During the test, the EUT was powered by an AC adapter. The EUT was displaying video and audio on a TV, and the EUT was connected with a wireless network, and transmitting data via the WIFI.

(2) The second test mode

The EUT configuration of the emission tests is EUT + Battery + Charger+ USB+ wireless network + DECT.

During the test, the EUT was powered by an AC adapter. The EUT was displaying video and audio of the USB device, and the EUT was connected with a wireless network, and transmitting data via the WIFI, the DECT module was working normally connected with a base station.

(3) The third test mode

The EUT configuration of the emission tests is EUT + Battery + Charger+ SD card+ wireless network.

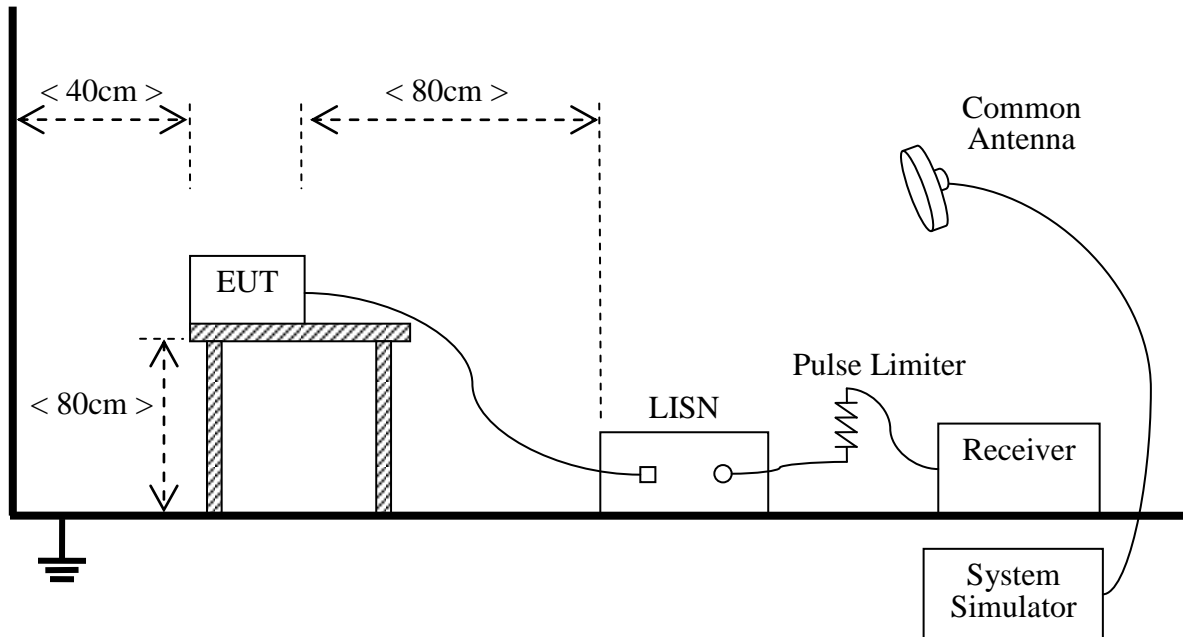
During the test, the EUT was powered by an AC adapter. The EUT was displaying video and audio of the SD card, and the EUT was connected with a wireless network, and transmitting data via the WIFI.

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

3.1 Test Setup and Equipments List

3.1.1 Conducted Emission

A. Test Setup:



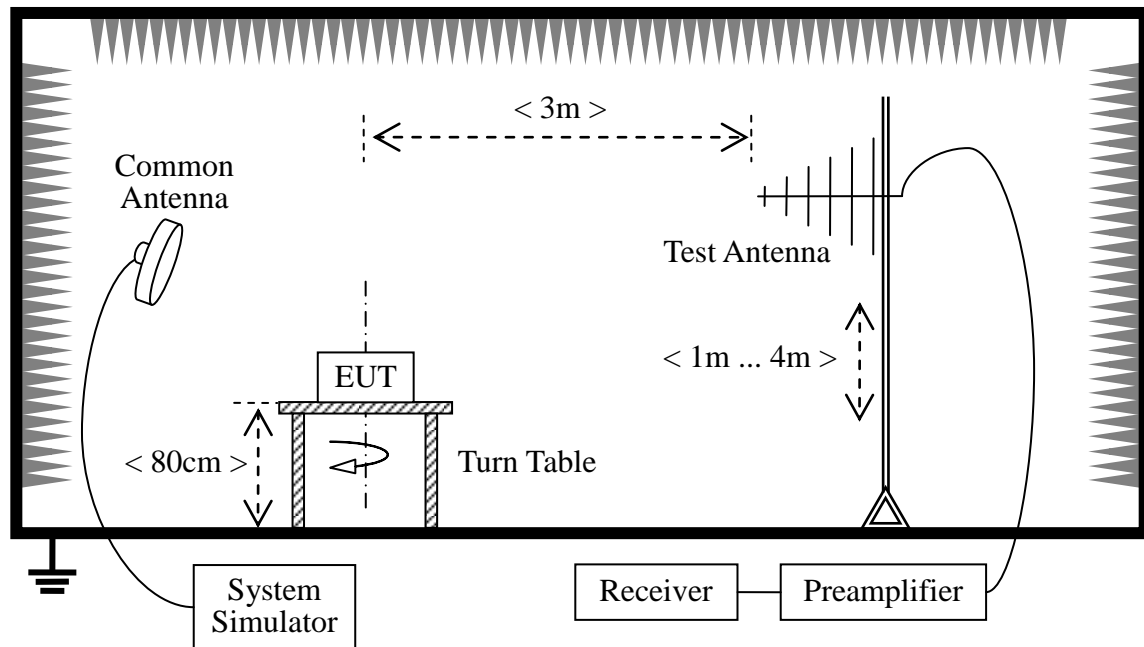
The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides $50\Omega/50\mu\text{H}$ of coupling impedance for the measuring instrument. The 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	2009.09	2year
LISN	Schwarzbeck	NSLK 8127	812744	2009.09	2year
Pulse Limiter (20dB)	Schwarzbeck	VTSD 9561-D	9391	(n.a.)	(n.a.)
System Simulator	Agilent	E5515C	GB43130131	2009.09	2year
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.)

3.1.2 Radiated Emission

A. 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).

B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Receiver	Agilent	E7405A	US44210471	2009.09	2year
Semi-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2009.09	2year
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2009.09	2year
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2009.09	2year
System Simulator	Agilent	E5515C	GB43130131	2009.09	2year
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.

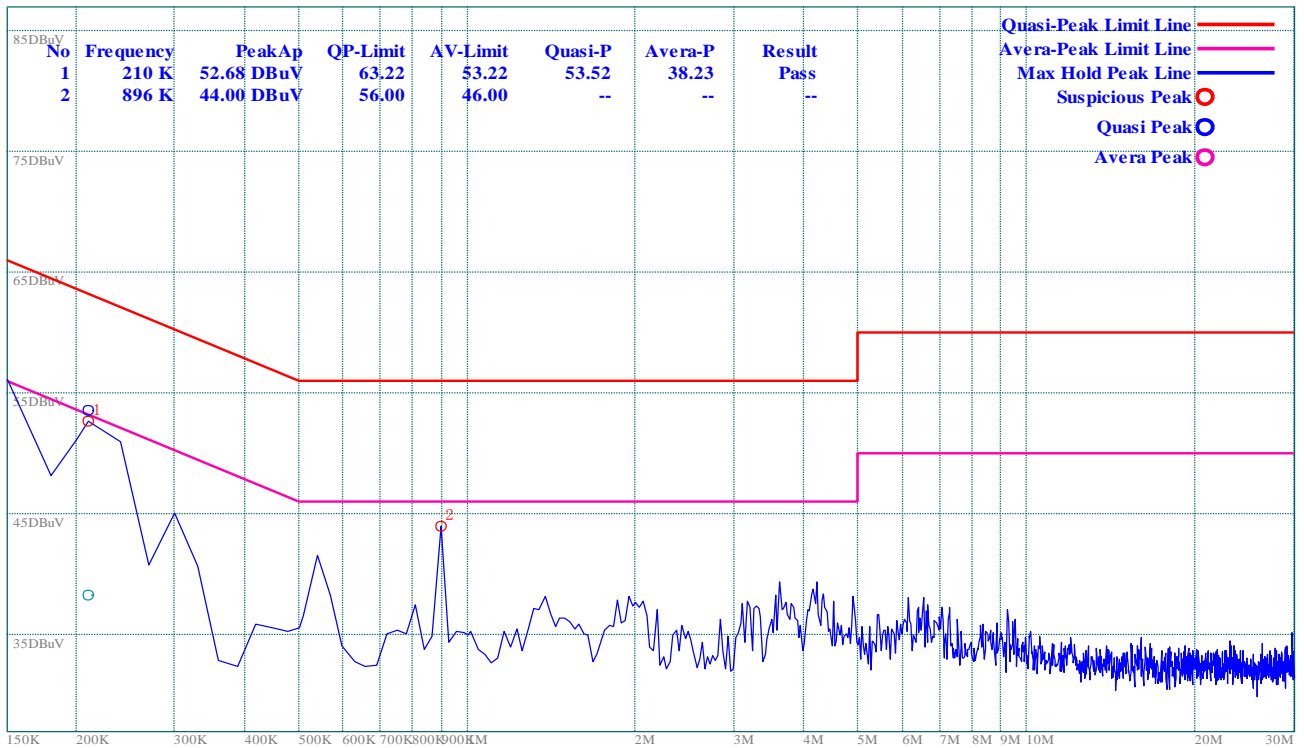
4.1.2 Test Description

See section 3.2.1 of this report.

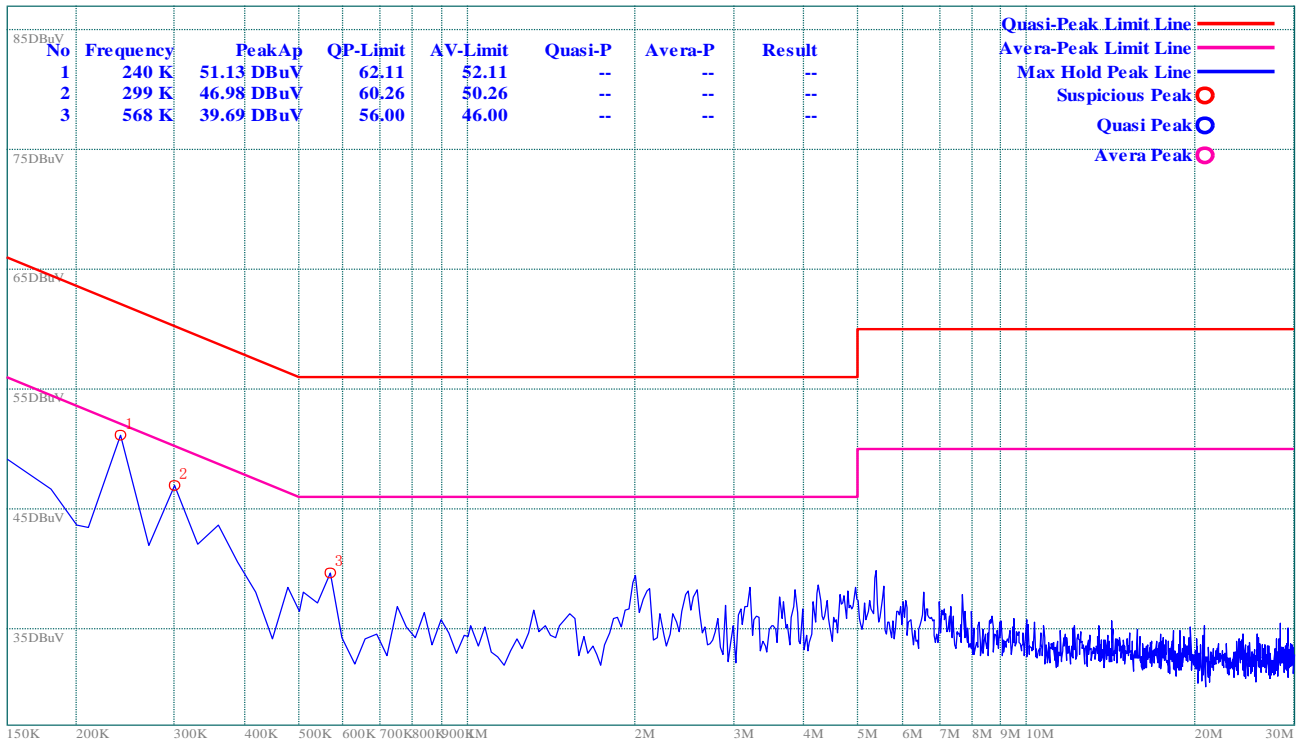
4.1.3 Test Result

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.

A. Test Plot and Suspicious Points:



(Plot A: L Phase)



(Plot B: N Phase)

Result: Pass

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	
	$\mu\text{V/m}$	$\text{dB } \mu\text{V/m}$
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

NOTE:

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

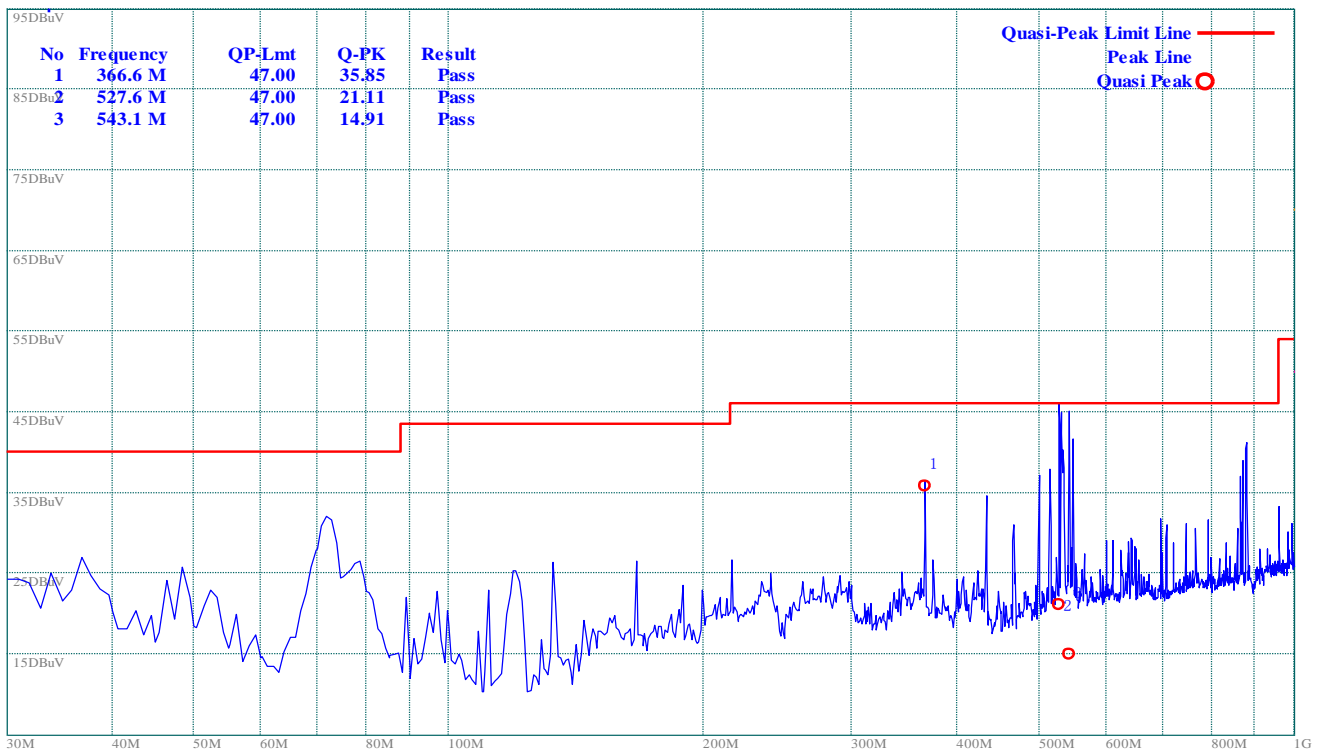
4.2.2 Test Description

See section 3.1.2 of this report.

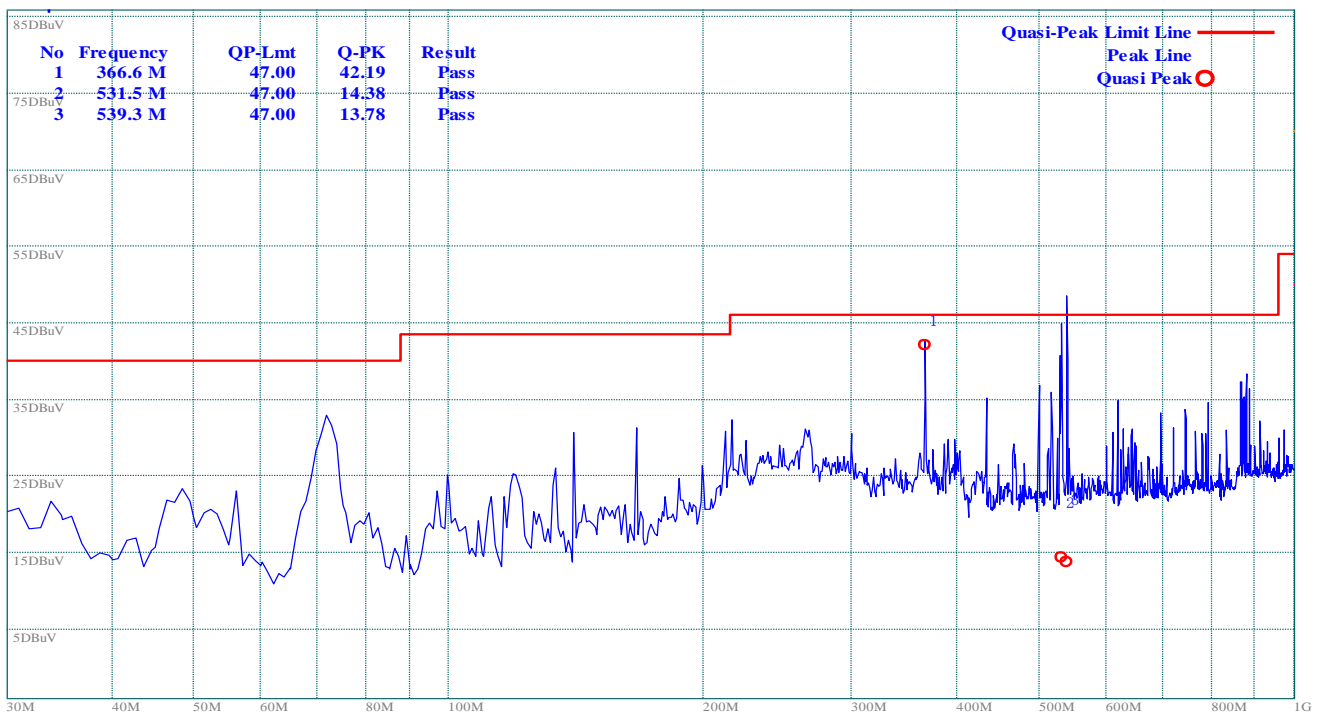
4.2.3 Test Result

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.

A. Test Plot and Suspicious Points:



(Plot A: Test Antenna Vertical)



(Plot B: Test Antenna Horizontal)

** END OF REPORT **