



Part 15B TEST REPORT

| Product Name | Tablet PC |
|--------------|-----------------------|
| Model Name | R8 |
| FCC ID | NV8-R8 |
| Client | Estone Technology Inc |

TA Technology (Shanghai) Co., Ltd.

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GENERAL SUMMARY

| Product Name | Tablet PC | Model Name | R8 |
|--------------------------|---|------------------|----------|
| FCC ID | NV8-R8 | | |
| Report No. | RXC1209-0833EMC01R2 | | |
| Client | Estone Technology Inc | | |
| Manufacturer | Shenzhenshi ChuangZhiCheng Technology Co., L | _td Manufacturin | g Center |
| Reference Standard(s) | FCC Code CFR47 Part15B (2010-12) Radio freq ANSI C63.4 (2009) Methods of Measurement Low-Voltage Electrical and Electronic Equipment | of Radio-Nois | |
| Conclusion | This portable wireless equipment has been meas relevant standards. Test results in Chapter 2 of specified in the relevant standards. General Judgment: Pass (Stamp) Date of issue: | this test repor | , |
| Comment | The test result only responds to the measured sar | mple. | |

| Approved by | 栖伟中 | Revised by_ | 花片粉 | - Performed by |
|---------------|----------|-------------|-------------|----------------|
| 7.pp.0100 2)_ | Director | - | EMC Manager | EMC Engineer |

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1. General Information

1.1. Notes of the test report

TA Technology (Shanghai) Co., Ltd. guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and technical facilities available at TA Technology (Shanghai) Co., Ltd. at the time of execution of the test.

TA Technology (Shanghai) Co., Ltd. is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the items under test and the results of the test. This report only refers to the item that has undergone the test.

This report standalone dose not constitute or imply by its own an approval of the product by the certification Bodies or competent Authorities. This report can not be used partially or in full for publicity and/or promotional purposes without previous written approval of **TA Technology** (Shanghai) Co., Ltd. and the Accreditation Bodies, if it applies.

If the electrical report is inconsistent with the printed one, it should be subject to the latter.

1.2. Testing laboratory

Company: TA Technology (Shanghai) Co., Ltd.

Registration Number: 428261

Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong

City: Shanghai

Post code: 201201

Country: P. R. China

Contact: Yang Weizhong

Telephone: +86-021-50791141/2/3

Fax: +86-021-50791141/2/3-8000

Website: http://www.ta-shanghai.com

E-mail: yangweizhong@ta-shanghai.com

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1.3. Applicant Information

Company: Estone Technology Inc

Address: 3324 secor road #8, Toledo, OH 43606

City: Toledo

Postal Code: /

Country: America

1.4. Manufacturer Information

Company: Shenzhenshi ChuangZhiCheng Technology Co., Ltd Manufacturing Center

3F, Block A2, A3, Beida Funder Hi-tech park, Songbai Road, ShiyanStreet, Baoan

Address: District, Shenzhen

City: Shenzhen

Postal Code: 518000

Country: China

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1.5. Information of EUT

General information

| Name of EUT: | Tablet PC |
|-------------------|------------------|
| IMEI: | CZC1260024620010 |
| Hardware Version: | VerD |
| Software Version: | R802R007 |
| Antenna Type: | Internal Antenna |

Equipment Under Test (EUT) is Tablet PC with internal antenna. During the test, the EUT was in the full system mode: the USB port was connected to a mouse and the earphone port was connected to an earphone.

The sample under test was selected by the Client.

Components list please refer to documents of the manufacturer.

1.6. Test Date

The test is performed from October 26, 2012 to November 15, 2012.

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2. Test Information

2.1. Summary of test results

| Number | Test Case | Clause in FCC Rules | Verdict |
|--------|--------------------|-------------------------|---------|
| 1 | Radiated Emission | 15.109, ANSI C63.4-2009 | PASS |
| 2 | Conducted Emission | 15.107, ANSI C63.4-2009 | PASS |

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2.2. Radiated Emission

Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 24°C~26°C | 45%~50% | 102.5kPa |

Methods of Measurement

The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The distance between EUT and receive antenna should be 3 meters. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2009. Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. During the test, the EUT is worked at maximum output power.

Set the spectrum analyzer in the following:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

- (a) PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO
- (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

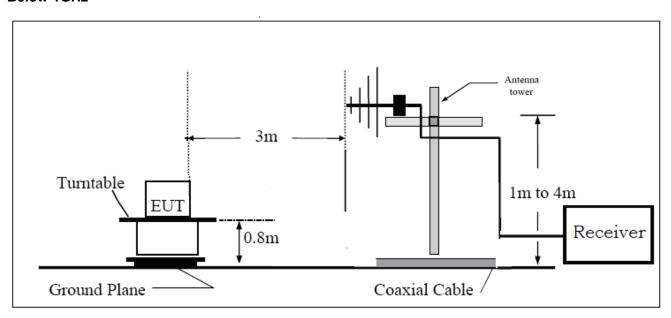
The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (Y axis) and the worst case was recorded.

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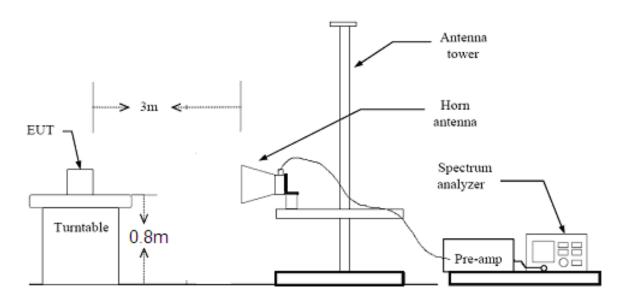
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Test Setup

Below 1GHz



Above 1GHz



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Limits

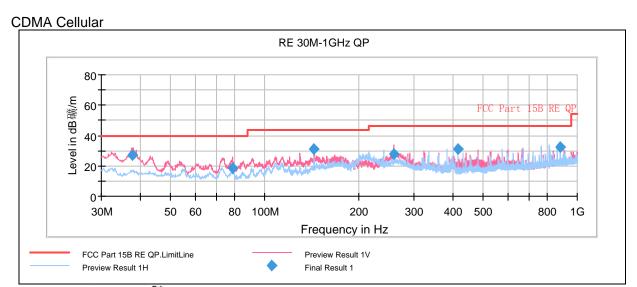
| Frequency (MHz) | Field Strength (dBµV/m) | Detector |
|--|----------------------------|-----------------|
| 30 -88 | 40.0 | Quasi-peak |
| 88-216 | 43.5 | Quasi-peak |
| 216 – 960 | 46.0 | Quasi-peak |
| 960-1000 | 54.0 | Quasi-peak |
| 1000-5 th harmonic of the highest frequency or 40GHz,which is lower | 54 74 | Average Peak |

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96. U= 3.92 dB.

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Test Results



Note: a font (Level in dB礦/m)in the test plot =(level in dbuv/m)

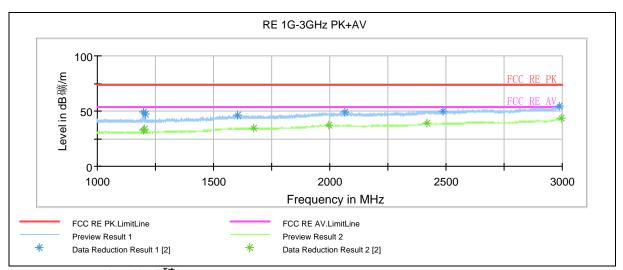
Radiated Emission from 30MHz to 1GHz

| Frequency (MHz) | Quasi-Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|------------------------|-------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 37.745600 | 26.9 | 100.0 | V | 20.0 | 49.4 | -22.5 | 13.1 | 40.0 |
| 78.746590 | 18.6 | 121.0 | V | 4.0 | 48.6 | -30.0 | 21.4 | 40.0 |
| 144.015062 | 30.8 | 100.0 | V | 330.0 | 61.9 | -31.1 | 12.7 | 43.5 |
| 259.638500 | 27.6 | 200.0 | V | 244.0 | 54.1 | -26.5 | 18.4 | 46.0 |
| 414.971250 | 31.2 | 125.0 | V | 32.0 | 54 | -22.8 | 14.8 | 46.0 |
| 881.816750 | 32.4 | 121.0 | V | 289.0 | 47.4 | -15.0 | 13.6 | 46.0 |

Remark: 1. Quasi-Peak = Reading value + Correction factor

- 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
- 3. Margin = Limit Quasi-Peak

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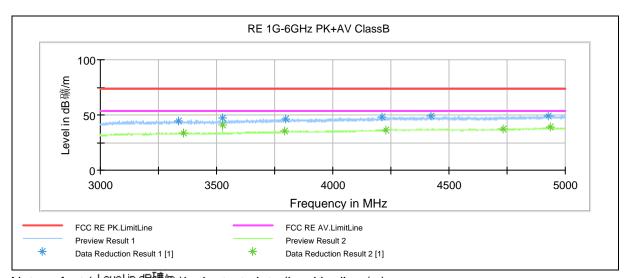


Note: a font (Level in dD礦/m)in the test plot =(level in dbuv/m)

Note: Blue trace uses the peak detection

Green trace uses the average detection

Radiated Emission from 1GHz to 3GHz

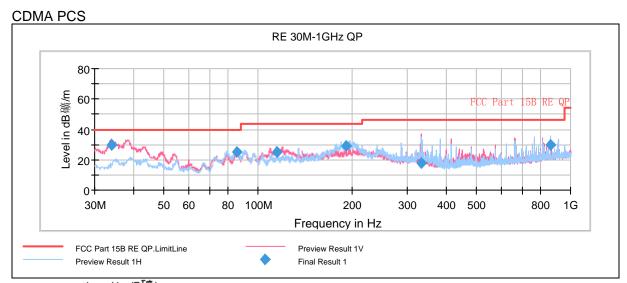


Note: a font (Level in d日礦/m)in the test plot =(level in dbuv/m)

Note: Blue trace uses the peak detection Green trace uses the average detection

Radiated Emission from 3GHz to 5GHz

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Note: a font (Level in dD礦/m)in the test plot =(level in dbuv/m)

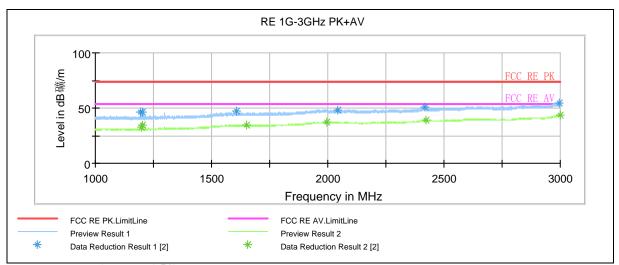
Radiated Emission from 30MHz to 1GHz

| Frequency (MHz) | Quasi-Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|------------------------|-------------|--------------|---------------|------------------------------|---------------------------|----------------|-------------------|
| 34.117194 | 30.1 | 100.0 | V | 177.0 | 52.7 | -22.6 | 9.9 | 40.0 |
| 85.518669 | 24.8 | 200.0 | Н | 179.0 | 53.2 | -28.4 | 15.2 | 40.0 |
| 114.625919 | 25.1 | 100.0 | V | 49.0 | 53.1 | -28.0 | 18.4 | 43.5 |
| 191.990025 | 29.1 | 100.0 | Н | 105.0 | 58.1 | -29.0 | 14.4 | 43.5 |
| 333.091250 | 17.7 | 100.0 | V | 114.0 | 42.4 | -24.7 | 28.3 | 46.0 |
| 863.878750 | 29.8 | 220.0 | Н | 340.0 | 45.2 | -15.4 | 16.2 | 46.0 |

Remark: 1. Quasi-Peak = Reading value + Correction factor

- 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
- 3. Margin = Limit Quasi-Peak

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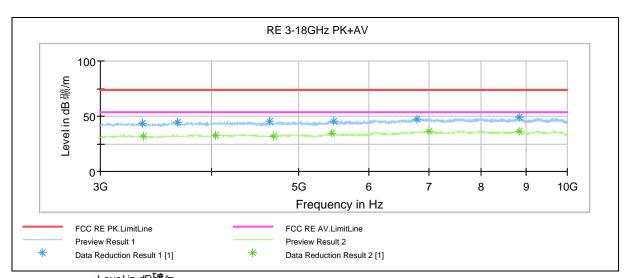


Note: a font (Level in dD礦/m)in the test plot =(level in dbuv/m)

Note: Blue trace uses the peak detection

Green trace uses the average detection

Radiated Emission from 1GHz to 3GHz



Note: a font (Level in dD礦/m)in the test plot =(level in dbuv/m)

Note: Blue trace uses the peak detection Green trace uses the average detection

Radiated Emission from 3GHz to 10GHz

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2.3. Conducted Emission

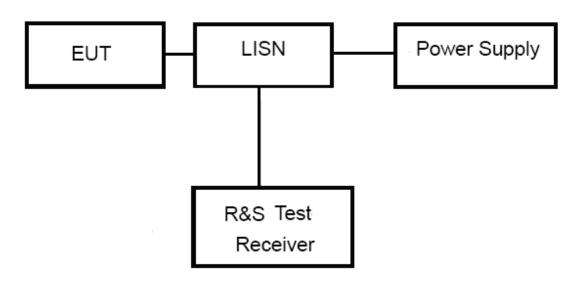
Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 24°C ~26°C | 50%~55% | 102.5kPa |

Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2009. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz.The measurement result should include both L line and N line.

Test Setup



Note: Power Supply is AC Power source and it is used to change the voltage from 220V/50Hz to 110V/60Hz.

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Limits

| Frequency | Conducted I | ∟imits(dBμV) | | |
|--|-------------|-----------------------|--|--|
| (MHz) | Quasi-peak | Average | | |
| 0.15 - 0.5 | 66 to 56 * | 56 to 46 [*] | | |
| 0.5 - 5 | 56 | 46 | | |
| 5 - 30 | 60 50 | | | |
| * Decreases with the logarithm of the frequency. | | | | |

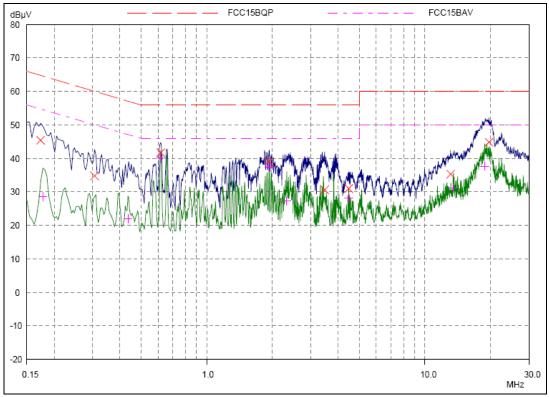
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96. U= 2.69 dB.

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Test Results

CDMA Cellular

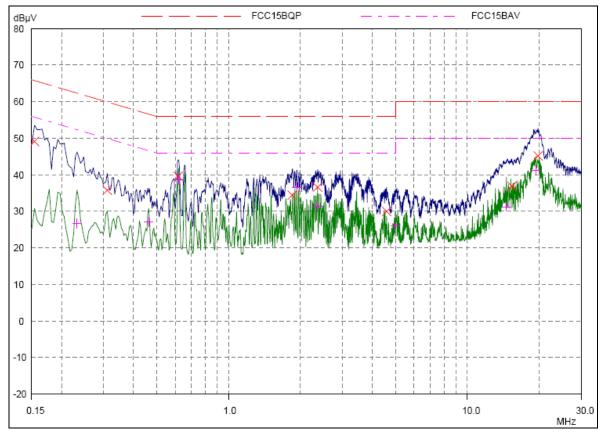


Note: Blue trace uses the peak detection
Green trace uses the average detection
L line

Conducted Emission from 150 KHz to 30 MHz

| Final Measurer | ment Results | | | |
|----------------|--------------|----------|----------|-------|
| Frequency | QP Level | QP Limit | QP Delta | Phase |
| MHz | dBμV | dBµ∨ | dB | - |
| 0.17343 | 45.44 | 64.79 | 19.35 | L1 |
| 0.30625 | 34.78 | 60.07 | 25.29 | L1 |
| 0.61484 | 41.70 | 56.00 | 14.30 | L1 |
| 1.93125 | 39.11 | 56.00 | 16.89 | L1 |
| 3.47031 | 30.63 | 56.00 | 25.37 | L1 |
| 4.48203 | 31.02 | 56.00 | 24.98 | L1 |
| 13.11093 | 35.29 | 60.00 | 24.71 | L1 |
| 19.67343 | 44.88 | 60.00 | 15.12 | L1 |
| Frequency | AV Level | AV Limit | AV Delta | Phase |
| MHz | dBμV | dBµ∨ | dB | - |
| 0.17734 | 28.60 | 54.61 | 26.01 | L1 |
| 0.43515 | 21.96 | 47.15 | 25.19 | L1 |
| 0.61484 | 40.18 | 46.00 | 5.82 | L1 |
| 1.93125 | 37.31 | 46.00 | 8.69 | L1 |
| 2.32578 | 27.23 | 46.00 | 18.77 | L1 |
| 4.48203 | 28.20 | 46.00 | 17.80 | L1 |
| 13.48593 | 31.06 | 50.00 | 18.94 | L1 |
| 18.80625 | 37.70 | 50.00 | 12.30 | L1 |

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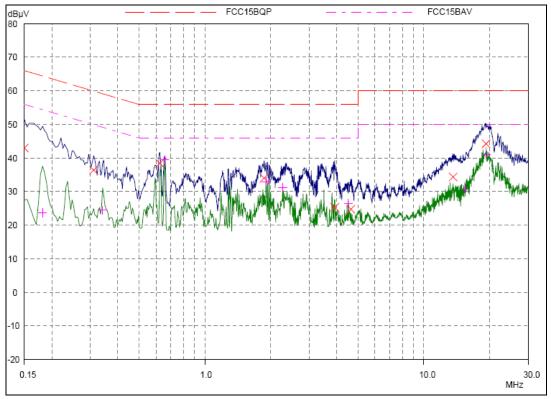
Note: Blue trace uses the peak detection

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| Conducted Emission from 150 KHz to 30 MHz | | | | | |
|---|--------------|----------|----------|-------|--|
| Final Measure | ment Results | | | | |
| Frequency | QP Level | QP Limit | QP Delta | Phase | |
| MHz | dBµ∨ | dΒμ∨ | dB | - | |
| 0.1539 | 49.14 | 65.79 | 16.65 | N | |
| 0.31015 | 35.76 | 59.97 | 24.21 | N | |
| 0.61484 | 39.60 | 56.00 | 16.40 | N | |
| 1.84921 | 34.46 | 56.00 | 21.54 | N | |
| 2.35703 | 36.62 | 56.00 | 19.38 | N | |
| 4.59531 | 29.96 | 56.00 | 26.04 | N | |
| 15.38437 | 36.87 | 60.00 | 23.13 | N | |
| 19.79062 | 45.19 | 60.00 | 14.81 | N | |
| | | | | | |
| Frequency | AV Level | AV Limit | AV Delta | Phase | |
| MHz | dBμV | dΒμV | dB | - | |
| 0.23203 | 26.67 | 52.38 | 25.71 | N | |
| 0.4625 | 27.12 | 46.65 | 19.53 | N | |
| 0.61875 | 38.69 | 46.00 | 7.31 | N | |
| 1.93125 | 36.53 | 46.00 | 9.47 | N | |
| 2.35703 | 31.50 | 46.00 | 14.50 | N | |
| 4.98593 | 25.98 | 46.00 | 20.02 | N | |
| 14.57968 | 31.19 | 50.00 | 18.81 | N | |
| 19.36875 | 41.11 | 50.00 | 8.89 | N | |
| | | | | | |

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CDMA PCS

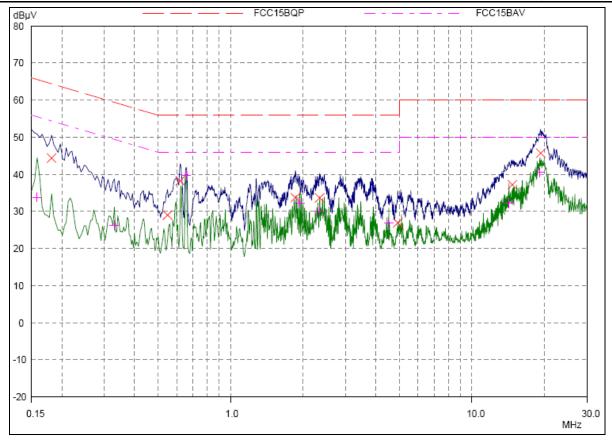


Note: Blue trace uses the peak detection
Green trace uses the average detection
L line

Conducted Emission from 150 KHz to 30 MHz

| Final Measurement Results | | | | | |
|---------------------------|----------|----------|----------|-------|--|
| Frequency | QP Level | QP Limit | QP Delta | Phase | |
| MHz | dBμV | dBµ∨ | dB | - | |
| 0.15 | 42.95 | 66.00 | 23.05 | L1 | |
| 0.31015 | 36.41 | 59.97 | 23.56 | L1 | |
| 0.62265 | 38.43 | 56.00 | 17.57 | L1 | |
| 1.86484 | 34.01 | 56.00 | 21.99 | L1 | |
| 3.91953 | 25.31 | 56.00 | 30.69 | L1 | |
| 4.64609 | 24.76 | 56.00 | 31.24 | L1 | |
| 13.5914 | 34.35 | 60.00 | 25.65 | L1 | |
| 19.2125 | 44.25 | 60.00 | 15.75 | L1 | |
| Frequency | AV Level | AV Limit | AV Delta | Phase | |
| MHz | dBμ∨ | dΒμV | dB | - | |
| 0.18125 | 23.64 | 54.43 | 30.79 | L1 | |
| 0.3414 | 24.49 | 49.17 | 24.68 | L1 | |
| 0.6539 | 39.40 | 46.00 | 6.60 | L1 | |
| 1.9039 | 32.94 | 46.00 | 13.06 | L1 | |
| 2.26328 | 31.10 | 46.00 | 14.90 | L1 | |
| 4.5289 | 26.50 | 46.00 | 19.50 | L1 | |
| 15.41953 | 30.80 | 50.00 | 19.20 | L1 | |
| 19.29453 | 41.03 | 50.00 | 8.97 | L1 | |

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Note: Blue trace uses the peak detection

Output

Ou

| Final Measurer | | SSION HOIN 150 r | N 12 10 00 WI 12 | |
|----------------|----------|------------------|------------------|-------|
| Frequency | QP Level | QP Limit | QP Delta | Phase |
| MHz | dBµ∨ | dBµ∨ | dB | - |
| 0.18125 | 44.39 | 64.43 | 20.04 | N |
| 0.54843 | 29.04 | 56.00 | 26.96 | N |
| 0.61875 | 38.29 | 56.00 | 17.71 | N |
| 1.85703 | 33.73 | 56.00 | 22.27 | N |
| 2.3375 | 33.67 | 56.00 | 22.33 | N |
| 4.92734 | 26.93 | 56.00 | 29.07 | N |
| 14.7164 | 37.21 | 60.00 | 22.79 | N |
| 19.27109 | 45.70 | 60.00 | 14.30 | N |
| Frequency | AV Level | AV Limit | AV Delta | Phase |
| MHz | dBμ∨ | dBµ∨ | dB | - |
| 0.15781 | 33.85 | 55.58 | 21.73 | N |
| 0.32968 | 26.32 | 49.46 | 23.14 | N |
| 0.6539 | 39.79 | 46.00 | 6.21 | N |
| 1.93125 | 32.24 | 46.00 | 13.76 | N |
| 2.3375 | 30.16 | 46.00 | 15.84 | N |
| 4.525 | 26.88 | 46.00 | 19.12 | N |
| 14.26328 | 32.22 | 50.00 | 17.78 | N |
| 19.20078 | 40.48 | 50.00 | 9.52 | N |

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3. Main Test Instruments

| No. | Name | Туре | Manufacturer | Serial Number | Calibration Date | Valid Period |
|-----|----------------------|-----------|-----------------|------------------|---------------------|--------------|
| 01 | EMI Test Receiver | ESCI | R&S | 100948 | 2012-06-30 | One year |
| 02 | Trilog Antenna | VULB 9163 | SCHWARZB ECK | 9163-201 | 2010-06-20 | Three years |
| 03 | Signal Analyzer | FSV30 | R&S | 100815 | 2012-06-30 | One year |
| 04 | Horn Antenna | HF907 | R&S | 100126 | 2012-07-01 | Three years |
| 05 | EMI Test Receiver | ESCS30 | R&S | 100138 | 2012-01-16 | One year |
| 06 | LISN | ENV216 | R&S | 101171 | 2010-04-16 | Three years |

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

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ANNEX A: The EUT Appearance and Test Setup

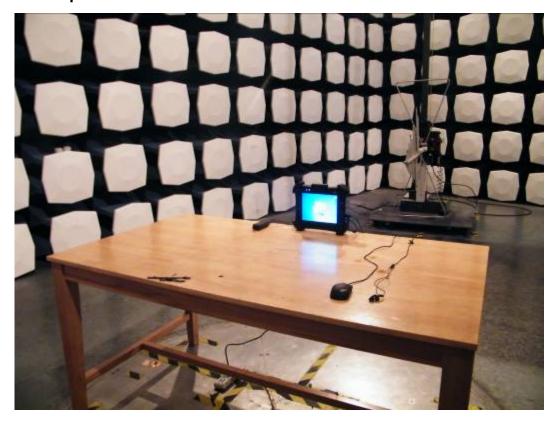
A.1 EUT Appearance



Picture 1 EUT

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A.2 Test Setup



Below 1GHz



Above 1GHz
Picture 2 Radiated Emission Test Setup

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Picture 3 Conducted Emission Test Setup