RF TEST REPORT



Report No.: 17070400-FCC-R4-V1

Supersede Report No.: N/A

| Applicant | INFINIX MOBILITY LIMITED | | |
|---|--|--|--|
| Product Name | Mobile Phone | | |
| Model No. | X5010 | | |
| Serial No. | N/A | | |
| Test Standard | FCC Part 15.247: 2016, ANSI C63.10: 2013 | | |
| Test Date | June 01 to June 22, 2017 | | |
| Issue Date | July 03, 2017 | | |
| Test Result | Pass Fail | | |
| Equipment complied with the specification | | | |
| Equipment did not comply with the specification | | | |
| Loven | WO David Huang | | |
| Loren Lu Test Engir | | | |

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Test result presented in this test report is applicable to the tested sample only

Issued by:

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Laboratories Introduction

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Accreditations for Conformity Assessment

| Country/Region | Scope |
|----------------|------------------------------------|
| USA | EMC, RF/Wireless, SAR, Telecom |
| Canada | EMC, RF/Wireless, SAR, Telecom |
| Taiwan | EMC, RF, Telecom, SAR, Safety |
| Hong Kong | RF/Wireless, SAR, Telecom |
| Australia | EMC, RF, Telecom, SAR, Safety |
| Korea | EMI, EMS, RF, SAR, Telecom, Safety |
| Japan | EMI, RF/Wireless, SAR, Telecom |
| Singapore | EMC, RF, SAR, Telecom |
| Europe | EMC, RF, SAR, Telecom, Safety |



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1. Report Revision History

| Report No. | Report Version | Description | Issue Date |
|--------------------|----------------|-----------------------------|---------------|
| 17070400-FCC-R4 | NONE | Original | June 23, 2017 |
| 47070400 FCC D4 V4 | V1 | Added the Radiated Emission | July 03, 2017 |
| 17070400-FCC-R4-V1 | | test data (9kHz-30MHz) | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| Applicant Name | INFINIX MOBILITY LIMITED |
|------------------|---|
| Applicant Add | RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 |
| | CANTON RD TST KLN HONG KONG |
| Manufacturer | SHENZHEN TECNO TECHNOLOGY CO.,LTD. |
| Manufacturer Add | 1-4th Floor,3rd Building,Pacific Industrial Park,No.2088,Shenyan Road,Yantian |
| | District,Shenzhen,Guangdong,China |

3. Test site information

| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES | |
|----------------------|---|--|
| | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park | |
| Lab Address | South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China | |
| | 518108 | |
| FCC Test Site No. | 718246 | |
| IC Test Site No. | 4842E-1 | |
| Test Software of | Dedicted Emission Program To Changhan v2.0 | |
| Radiated Emission | Radiated Emission Program-To Shenzhen v2.0 | |
| Test Software of | E7 FMC(ver len 0244) | |
| Conducted Emission | EZ-EMC(ver.lcp-03A1) | |



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4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: X5010

Serial Model: N/A

Date EUT received: May 31, 2017

Test Date(s): June 01 to June 22, 2017

Equipment Category: DTS

Antenna Gain:

GSM850: -6.2dBi PCS1900: -3.7dBi

UMTS-FDD Band V: -5.8dBi

UMTS-FDD Band IV: -3.6dBi

UMTS-FDD Band II: -3.7dBi

WIFI: -4.9dBi

Bluetooth/BLE: -4.9dBi

GPS: -3.7dBi

Antenna Type: PIFA antenna

GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK

Type of Modulation: 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz

PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz

UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

RF Operating Frequency (ies): UMTS-FDD Band IV TX:1712.4 ~ 1752.6 MHz;

RX: 2112.4 ~ 2152.6 MHz

UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz



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WIFI: 802.11b/g/n(20M): 2412-2462 MHz WIFI: 802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz

GPS: 1575.42 MHz

802.11b: 16.62 dBm

Max. Output Power: 802.11g: 14.61 dBm

802.11n(20M): 11.89 dBm 802.11n(40M): 10.75 dBm

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH UMTS-FDD Band IV: 202CH UMTS-FDD Band II: 277CH

Number of Channels: WIFI :802.11b/g/n(20M): 11CH

WIFI:802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: USB Port, Earphone Port

Adapter:

Model: CU-52JT

Input: AC100-240V~50/60Hz,200mA

Output: DC 5.0V,1.2A

Input Power: Battery:

Model: BL-AW878

Spec: 3.8V,3000mAh/3060mAh

11.4Wh/11.62Wh

Voltage: 4.35V

Trade Name : Infinix

FCC ID: 2AIZN-X5010

GPRS/ EGPRS Multi-slot class 8/10/12



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5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

| FCC Rules | Description of Test | Result |
|---------------------------------|---|------------|
| §15.203 | Antenna Requirement | Compliance |
| §15.247 (a)(2) | DTS (6 dB&20 dB) CHANNEL BANDWIDTH | Compliance |
| §15.247(b)(3) | Conducted Maximum Output Power | Compliance |
| §15.247(e) | Power Spectral Density | Compliance |
| §15.247(d) | Band-Edge & Unwanted Emissions into Restricted Frequency Bands | Compliance |
| §15.207 (a), | AC Power Line Conducted Emissions | Compliance |
| §15.205, §15.209, §15.247(d) | Radiated Emissions & Unwanted Emissions into Restricted Frequency Bands | Compliance |

Measurement Uncertainty

| Emissions | | | | |
|---------------------------|--|---------------|--|--|
| Test Item | Description | Uncertainty | | |
| Band-Edge & Unwanted | | | | |
| Emissions into Restricted | | | | |
| Frequency Bands and | Confidence level of approximately 95% (in the case | | | |
| Radiated Emissions & | where distributions are normal), with a coverage | +5.6dB/-4.5dB | | |
| Unwanted Emissions | factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | | | |
| into Restricted Frequency | | | | |
| Bands | | | | |
| - | - | - | | |



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6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

According to § 15.203, 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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet 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.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 3 antennas:

A permanently attached PIFA antenna for GSM /PCS/ UMTS-FDD Band V/ IV/ II, the gain is -6.2dBi for GSM, the gain is -3.7dBi for PCS/ UMTS-FDD Band II, the gain is -5.8dBi for UMTS-FDD Band V, the gain is -3.6dBi for UMTS-FDD Band IV.

A permanently attached PIFA antenna for Bluetooth/WIFI/BLE/GPS, the gain is -4.9dBi for Bluetooth/WIFI/BLE, the gain is -3.7dBi for GPS.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB&20 dB) Channel Bandwidth

| Temperature | 25 °C | |
|----------------------|---------------|--|
| Relative Humidity | 53% | |
| Atmospheric Pressure | 1020mbar | |
| Test date : | June 20, 2017 | |
| Tested By : | Loren Luo | |

| | 1 | | <u> </u> | | | | |
|----------------|--|--|-----------------|--|--|--|--|
| Spec | Item Requirement Applic | | | | | | |
| § 15.247(a)(2) | a) | a) 6dB BW≥ 500kHz; 20dB BW≥ 500kHz; | | | | | |
| RSS Gen(4.6.1) | b) | b) 99% BW: For FCC reference only; required by IC. | | | | | |
| Test Setup | Spectrum Analyzer EUT | | | | | | |
| | 55807 | 4 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth | | | | | |
| | | andwidth | | | | | |
| | a) Se | t RBW = 100 kHz. | | | | | |
| | b) Set the video bandwidth (VBW) ≥ 3 × RBW. | | | | | | |
| | c) Detector = Peak. | | | | | | |
| | d) Trace mode = max hold. | | | | | | |
| | e) Sweep = auto couple. | | | | | | |
| | f) Allow the trace to stabilize. | | | | | | |
| | g) Measure the maximum width of the emission that is constrained by the freq | | | | | | |
| Test Procedure | uencies associated with the two outermost amplitude points (upper and lower fr | | | | | | |
| restriocedure | equencies) that are attenuated by 6 dB relative to the maximum level measure | | | | | | |
| | d in the fundamental emission. | | | | | | |
| | 20dB bandwidth | | | | | | |
| | C63.10 Occupied Bandwidth (OBW=20dB bandwidth) | | | | | | |
| | 1. S | et RBW = 1%-5% OBW. | | | | | |
| | 2. Set the video bandwidth (VBW) ≥ 3 x RBW. | | | | | | |
| | 3. Set the span range between 2 times and 5 times of the OBW. | | | | | | |
| | 4. Sweep time=Auto, Detector=PK, Trace=Max hold. | | | | | | |
| | | nce the reference level is established, the equipment is con | ditioned with t | | | | |
| | ypical | modulating signals to produce the worst- | | | | | |



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| | case (i.e., the widest) bandwidth. Unless otherwise specified for an unlicensed |
|--------|---|
| | wireless device, measure the bandwidth at the 20 dB levels with respect to the |
| | reference level. |
| Remark | |
| Result | Pass |

| Test Data | Yes | □ _{N/A} |
|-----------|-----------------|------------------|
| Test Plot | Yes (See below) | □ _{N/A} |

Measurement result

| Test mode | СН | Freq (MHz) | 6dB Bandwidth (MHz) | 20dB Bandwidth (MHz) | Limit (MHz) |
|-----------|------|------------|------------------------|-------------------------|-------------|
| | Low | 2412 | 9.519 | 14.73 | ≥ 0.5 |
| 802.11b | Mid | 2437 | 9.572 | 14.77 | ≥ 0.5 |
| | High | 2462 | 9.547 | 15.11 | ≥ 0.5 |
| | Low | 2412 | 15.50 | 18.88 | ≥ 0.5 |
| 802.11g | Mid | 2437 | 15.15 | 19.01 | ≥ 0.5 |
| | High | 2462 | 15.14 | 18.78 | ≥ 0.5 |
| 000 445 | Low | 2412 | 15.14 | 19.03 | ≥ 0.5 |
| 802.11n | Mid | 2437 | 15.94 | 19.49 | ≥ 0.5 |
| (20M) | High | 2462 | 15.14 | 19.12 | ≥ 0.5 |
| 000 44 | Low | 2422 | 35.42 | 39.06 | ≥ 0.5 |
| 802.11n | Mid | 2437 | 35.49 | 39.12 | ≥ 0.5 |
| (40M) | High | 2452 | 35.37 | 38.98 | ≥ 0.5 |



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Test Plots

6dB Bandwidth measurement result

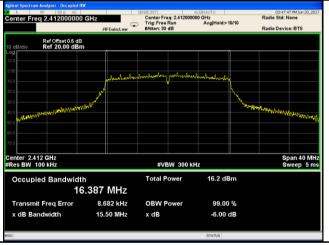




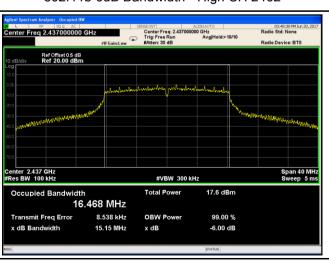
802.11b 6dB Bandwidth - Low CH 2412



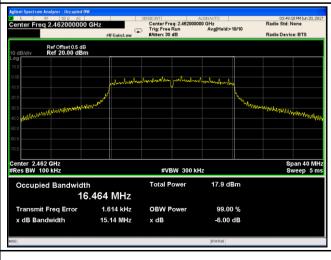
802.11b 6dB Bandwidth - Mid CH 2437



802.11b 6dB Bandwidth - High CH 2462



802.11g 6dB Bandwidth - Low CH 2412



802.11g 6dB Bandwidth - Mid CH 2437

802.11g 6dB Bandwidth - High CH 2462



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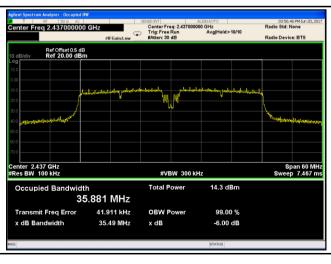
802.11n20 6dB Bandwidth - Low CH 2412



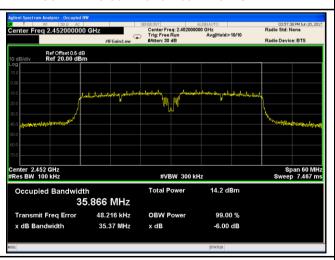
802.11n20 6dB Bandwidth - Mid CH 2437



802.11n20 6dB Bandwidth - High CH 2462



802.11n40 6dB Bandwidth - Low CH 2422



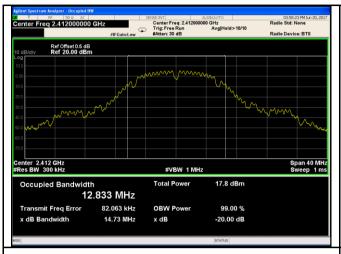
802.11n40 6dB Bandwidth - Mid CH 2437

802.11n40 6dB Bandwidth - High CH 2452



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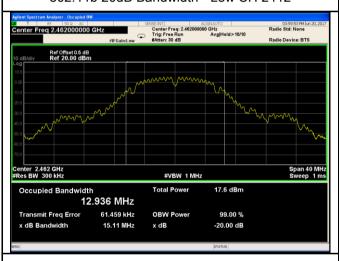
20 dB Bandwidth measurement result

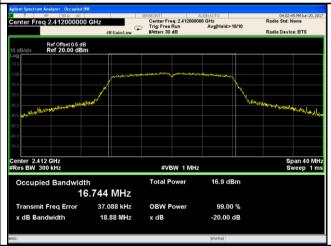




802.11b 20dB Bandwidth - Low CH 2412

802.11b 20dB Bandwidth - Mid CH 2437

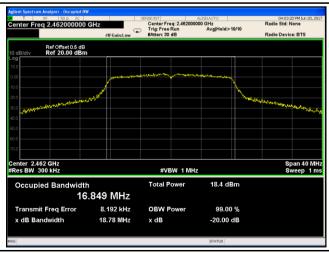




802.11b 20dB Bandwidth - High CH 2462

802.11g 20dB Bandwidth - Low CH 2412



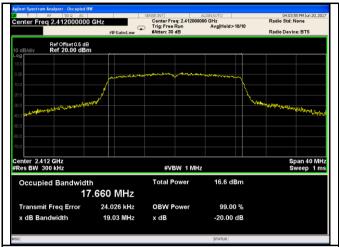


802.11g 20dB Bandwidth - Mid CH 2437

802.11g 20dB Bandwidth - High CH 2462



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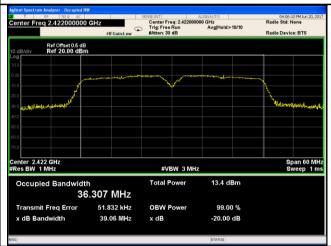




802.11n20 20dB Bandwidth - Low CH 2412



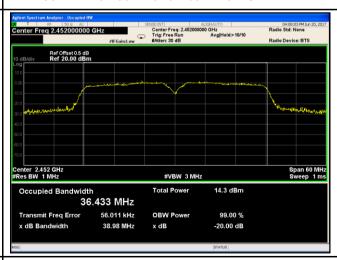
802.11n20 20dB Bandwidth - Mid CH 2437



802.11n20 20dB Bandwidth - High CH 2462



802.11n40 20dB Bandwidth - Low CH 2422



802.11n40 20dB Bandwidth - Mid CH 2437

802.11n40 20dB Bandwidth - High CH 2452



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6.3 Maximum Output Power

| Temperature | 25 °C |
|----------------------|---------------|
| Relative Humidity | 53% |
| Atmospheric Pressure | 1020mbar |
| Test date : | June 20, 2017 |
| Tested By : | Loren Luo |

Requirement(s):

| Requirement(s): | Ite | Requirement | Applicable | | | | |
|--------------------------|---|---|------------|--|--|--|--|
| Spec | m | | | | | | |
| | a) | FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt | | | | | |
| | b) | FHSS in 5725-5850MHz: ≤ 1 Watt | | | | | |
| §15.247(b) (3),RSS210 | c) | For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt. | | | | | |
| (3),133210 (A8.4) | d) | FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt | | | | | |
| (7.0.1) | e) | FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25 Watt | | | | | |
| | f) | DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt | V | | | | |
| Test Setup | Spectrum Analyzer EUT | | | | | | |
| | 558074 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power method | | | | | | |
| | Maximum output power measurement procedure | | | | | | |
| | - | a) Set span to at least 1.5 times the OBW. | | | | | |
| | - | b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz. | | | | | |
| | - | c) Set VBW ≥ 3 x RBW. | | | | | |
| Test | - | d) Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to | | | | | |
| Procedure | | ≤ RBW/2, so that narrowband signals are not lost between frequer | ncy bins.) | | | | |
| | - | e) Sweep time = auto. | | | | | |
| | - | f) Detector = RMS (i.e., power averaging), if available. Otherwise, u | se sample | | | | |
| | | detector mode. | | | | | |
| | - g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to | | | | | | |
| | | triggering only on full power pulses. The transmitter shall operate a | t maximum | | | | |



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| | power control level for the entire duration of every sweep. If the EUT transmits |
|--------|---|
| | continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each |
| | transmission is entirely at the maximum power control level, then the trigger shall |
| | be set to " free run". |
| | - h) Trace average at least 100 traces in power averaging (i.e., RMS) mode. |
| | - i) Compute power by integrating the spectrum across the OBW of the signal |
| | using the instrument's band power measurement function, with band limits set |
| | equal to the OBW band edges. If the instrument does not have a band power |
| | function, sum the spectrum levels (in power units) at intervals equal to the RBW |
| | extending across the entire OBW of the spectrum. |
| Remark | |
| Result | Pass Fail |
| | |

| Test Data | Yes | □ _{N/A} |
|-----------|-----------------|------------------|
| Test Plot | Yes (See below) | □ _{N/A} |

Output Power measurement result

| Туре | Test mode | СН | Frequency (MHz) | Conducted Power (dBm) | Limit (dBm) | Result |
|--------|------------------|------|--------------------|-----------------------|----------------|--------|
| | | Low | 2412 | 16.43 | 30 | Pass |
| | 802.11b | Mid | 2437 | 16.05 | 30 | Pass |
| | | High | 2462 | 16.62 | 30 | Pass |
| | 802.11g | Low | 2412 | 14.37 | 30 | Pass |
| | | Mid | 2437 | 14.26 | 30 | Pass |
| Output | | High | 2462 | 14.61 | 30 | Pass |
| power | 000 44= | Low | 2412 | 11.83 | 30 | Pass |
| | 802.11n (20M) | Mid | 2437 | 11.50 | 30 | Pass |
| | | High | 2462 | 11.89 | 30 | Pass |
| | 802.11n (40M) | Low | 2422 | 10.68 | 30 | Pass |
| | | Mid | 2437 | 10.69 | 30 | Pass |
| | | High | 2452 | 10.75 | 30 | Pass |



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Test Plots

The Average Power





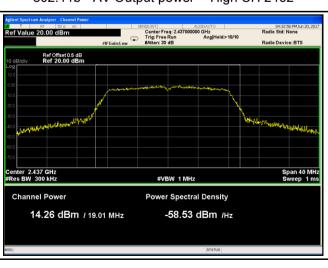
802.11b - AV Output power - Low CH 2412



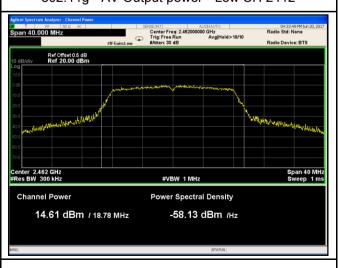
802.11b - AV Output power - Mid CH 2437



802.11b - AV Output power - High CH 2462



802.11g - AV Output power - Low CH 2412

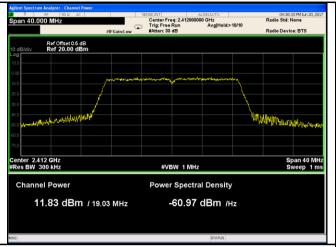


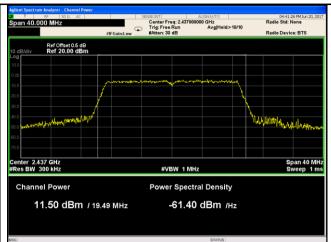
802.11g - AV Output power - Mid CH 2437

802.11g - AV Output power - High CH 2462



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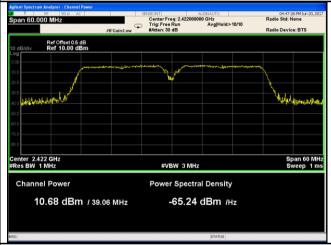




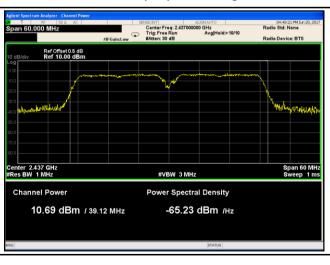
802.11n20 - AV Output power - Low CH 2412



802.11n20 - AV Output power - Mid CH 2437



802.11n20 - AV Output power - High CH 2462



802.11n40 - AV Output power - Low CH 2422



802.11n40 - AV Output power - Mid CH 2437

802.11n40 - AV Output power - High CH 2452



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6.4 Power Spectral Density

| Temperature | 25 °C |
|----------------------|---------------|
| Relative Humidity | 53% |
| Atmospheric Pressure | 1020mbar |
| Test date : | June 20, 2017 |
| Tested By : | Loren Luo |

| Spec | Item | Requirement | Applicable |
|-------------------|---------|--|------------|
| §15.247(e) | a) | a) The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. | |
| Test Setup | | Spectrum Analyzer EUT | |
| Test Procedure | power s | 558074 D01 DTS MEAS Guidance v03r03, 10.2 power spectral density method power spectral density measurement procedure - a) Set analyzer center frequency to DTS channel center frequency. - b) Set the span to 1.5 times the DTS bandwidth. - c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz. - d) Set the VBW ≥ 3 × RBW. - e) Detector = peak. - f) Sweep time = auto couple. - g) Trace mode = max hold. | |
| Remark | | | |
| Result | Pas | ss Fail | |



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| Test Data | Yes | $\square_{N/A}$ |
|-----------|-----------------|------------------|
| Test Plot | Yes (See below) | □ _{N/A} |

Power Spectral Density measurement result

| Type | Test mode | СН | Freq | PSD | Limit | Result |
|------|---------------------|------|-------|---------|-------|--------|
| | | | (MHz) | (dBm) | (dBm) | |
| | | Low | 2412 | -7.500 | 8 | Pass |
| | 802.11b | Mid | 2437 | -9.090 | 8 | Pass |
| | | High | 2462 | -8.655 | 8 | Pass |
| | | Low | 2412 | -13.632 | 8 | Pass |
| | 802.11g | Mid | 2437 | -12.985 | 8 | Pass |
| DOD | | High | 2462 | -12.010 | 8 | Pass |
| PSD | 000 445 | Low | 2412 | -13.917 | 8 | Pass |
| | 802.11n | Mid | 2437 | -12.027 | 8 | Pass |
| | (20M) | High | 2462 | -12.718 | 8 | Pass |
| | 902 11 _p | Low | 2422 | -17.161 | 8 | Pass |
| | 802.11n | Mid | 2437 | -18.344 | 8 | Pass |
| | (40M) | High | 2452 | -18.010 | 8 | Pass |



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Test Plots

Power Spectral Density measurement result

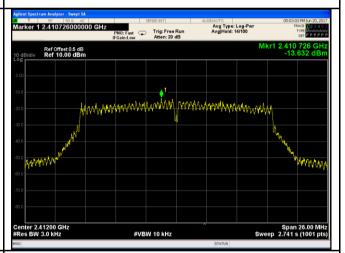




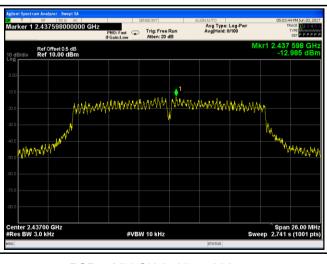
PSD - Low CH 2412 - 802.11b



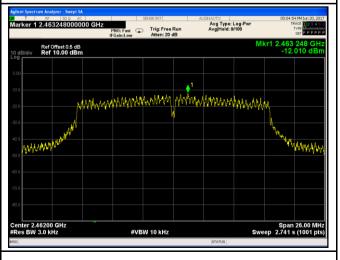
PSD - Mid CH 2437 - 802.11b



PSD - High CH 2462 - 802.11b



PSD - Low CH 2412 -802.11g

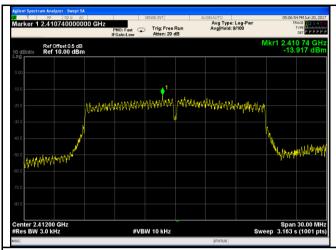


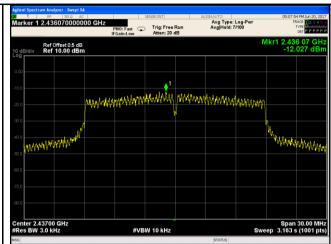
PSD - Mid CH 2437 - 802.11g

PSD - High CH 2462 - 802.11g



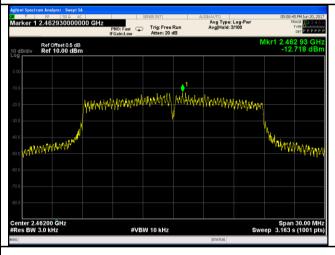
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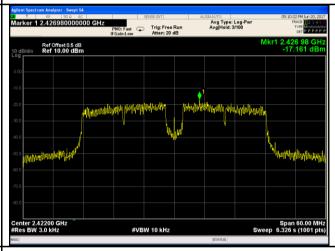




PSD - Low CH 2412 - 802.11n20

PSD - Mid CH 2437 - 802.11n20





PSD - High CH 2472 - 802.11n20

PSD - Low CH 2422 - 802.11n40





PSD - Mid CH 2437 - 802.11n40

PSD - High CH 2452 - 802.11n40



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6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

| Temperature | 23 °C |
|----------------------|---------------|
| Relative Humidity | 58% |
| Atmospheric Pressure | 1006mbar |
| Test date : | June 06, 2017 |
| Tested By : | Loren Luo |

Requirement(s):

| Spec | Item | Item Requirement | |
|-------------------|---|------------------|----------|
| §15.247(d) | 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. | | V |
| Test Setup | Peak conducted power limits. Ant. Tower Support Units Ground Plane Test Receiver | | |
| Test Procedure | Radiated Method Only 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range. | | |



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| _ | | | | | | |
|------------|--|--|--|--|--|--|
| | - 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a | | | | | |
| | convenient frequency span including 100kHz bandwidth from band edge, | | | | | |
| | check the emission of EUT, if pass then set Spectrum Analyzer as below: | | | | | |
| | a. The resolution bandwidth and video bandwidth of test receiver/spectrum | | | | | |
| | analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz. | | | | | |
| | b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and | | | | | |
| | video bandwidth is 3MHz with Peak detection for Peak measurement at | | | | | |
| | frequency above 1GHz. | | | | | |
| | c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the | | | | | |
| | video bandwidth is 10Hz with Peak detection for Average Measurement as below | | | | | |
| | at frequency above 1GHz. | | | | | |
| | - 4. Measure the highest amplitude appearing on spectral display and set it as a | | | | | |
| | reference level. Plot the graph with marking the highest point and edge | | | | | |
| | frequency. | | | | | |
| | - 5. Repeat above procedures until all measured frequencies were complete. | | | | | |
| Remark | | | | | | |
| Result | Pass Fail | | | | | |
| | | | | | | |
| Test Data | Yes N/A | | | | | |
| I GOL Dala | | | | | | |
| Test Plot | Yes (See below) N/A | | | | | |



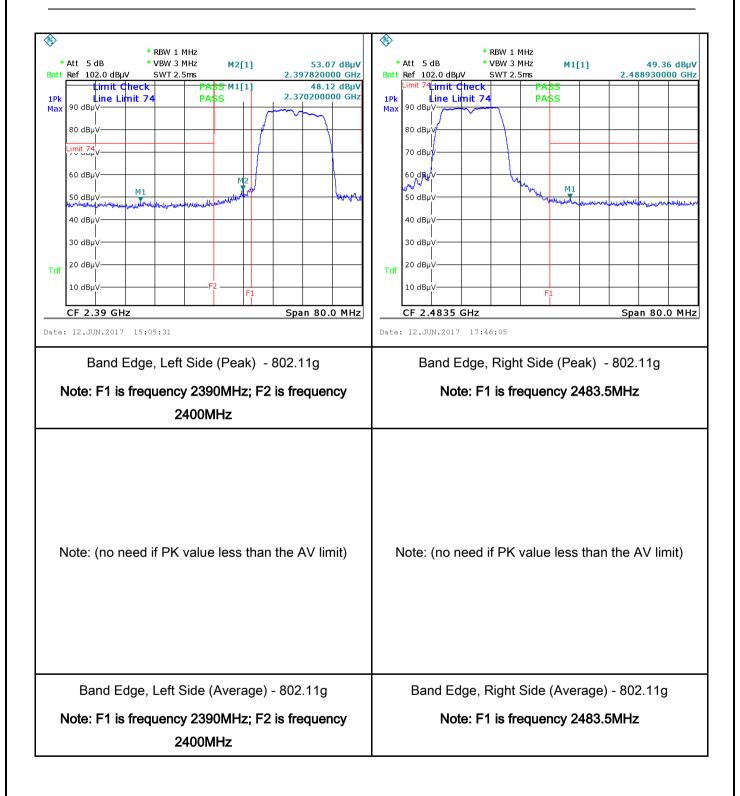
| Test Report No. | 17070400-FCC-R4-V1 |
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Test Plots Band Edge measurement result



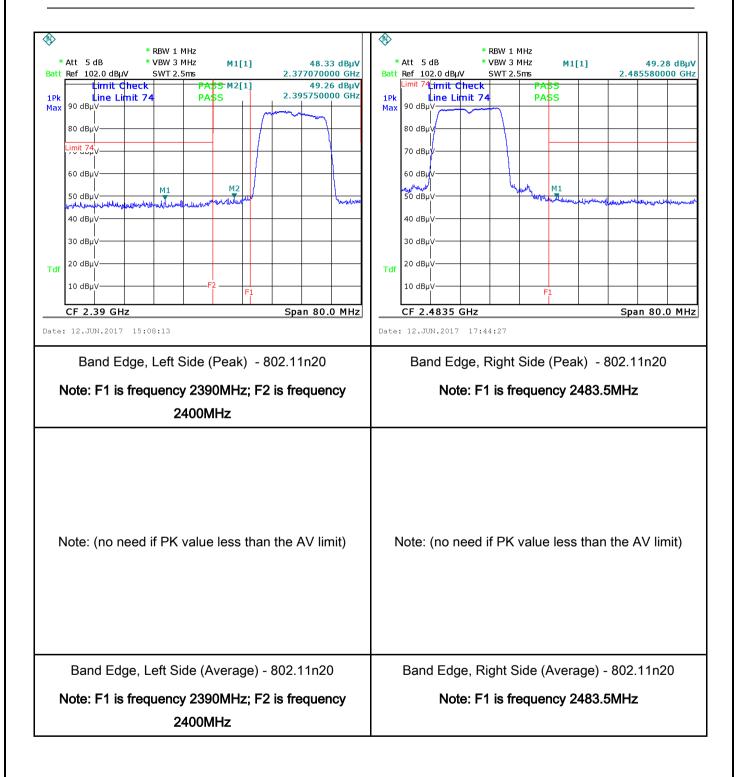


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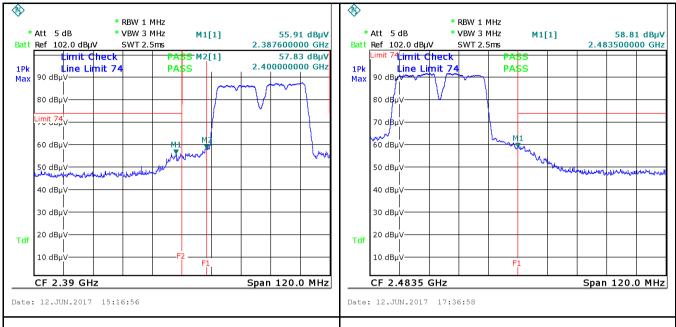


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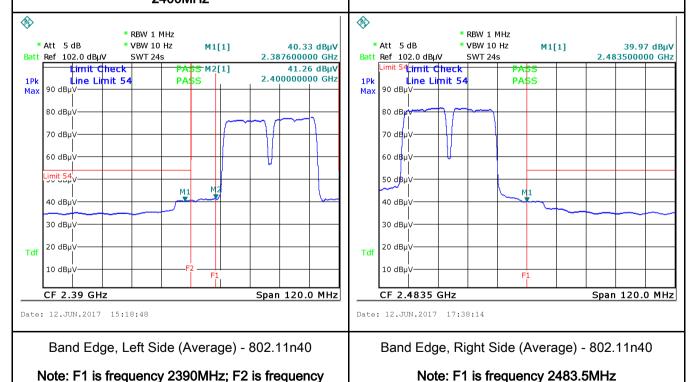
Band Edge, Left Side (Peak) - 802.11n40

Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz

2400MHz

Band Edge, Right Side (Peak) - 802.11n40

Note: F1 is frequency 2483.5MHz





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6.6 AC Power Line Conducted Emissions

| Temperature | 25 °C |
|----------------------|---------------|
| Relative Humidity | 50% |
| Atmospheric Pressure | 1008mbar |
| Test date : | June 08, 2017 |
| Tested By : | Loren Luo |

Requirement(s):

| Spec | Item | Requirement | Applicable | | | | | |
|------------|--|---------------------------|------------|---------|---|--|--|--|
| | | For Low-power radio-fr | | | | | | |
| | | voltage that is conducted | | | | | | |
| | | frequency or frequencie | · | • | V | | | |
| 47CFR§15. | | not exceed the limits in | | | | | | |
| 207, | | [mu] H/50 ohms line im | - | _ | | | | |
| RSS210 | a) | lower limit applies at th | | , , | | | | |
| (A8.1) | | Frequency ranges | Limit (| dBμV) | | | | |
| (A0.1) | | (MHz) | QP | Average | | | | |
| | | 0.15 ~ 0.5 | 66 – 56 | 56 – 46 | | | | |
| | | 0.5 ~ 5 | 56 | 46 | | | | |
| | | 5 ~ 30 60 50 | | | | | | |
| | Vertical Ground Reference Plane Test Receiver | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Test Setup | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm | | | | | | | |
| | from other units and other metal planes support units. | | | | | | | |
| | 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. | | | | | | | |
| Dragodura | | | | | | | | |
| Procedure | 2. The | onnected to | | | | | | |
| | | a low-loss | | | | | | |
| | 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss | | | | | | | |

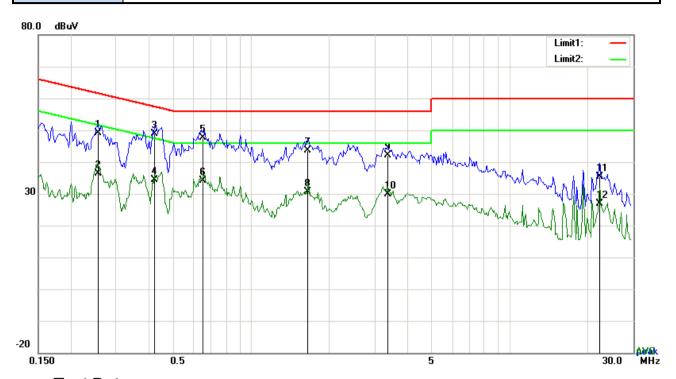


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| | coaxial cable. | | | | | | |
|-----------|---|--|--|--|--|--|--|
| | 4. All other supporting equipment were powered separately from another main supply. | | | | | | |
| | 5. The EUT was switched on and allowed to warm up to its normal operating condition. | | | | | | |
| | 6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) | | | | | | |
| | over the required frequency range using an EMI test receiver. | | | | | | |
| | 7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the | | | | | | |
| | selected frequencies and the necessary measurements made with a receiver bandwidth | | | | | | |
| | setting of 10 kHz. | | | | | | |
| | 8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power). | | | | | | |
| Remark | | | | | | | |
| Result | Pass Fail | | | | | | |
| | | | | | | | |
| Test Data | Yes N/A | | | | | | |
| Test Plot | Yes (See below) N/A | | | | | | |



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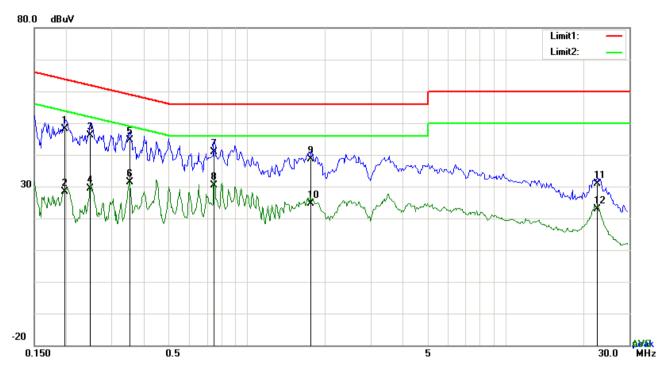
Test Data

Phase Line Plot at 120Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|----------------|------------------|-----------------|----------------|
| 1 | L1 | 0.2553 | 39.19 | QP | 10.03 | 49.22 | 61.58 | -12.36 |
| 2 | L1 | 0.2553 | 26.29 | AVG | 10.03 | 36.32 | 51.58 | -15.26 |
| 3 | L1 | 0.4230 | 38.95 | QP | 10.03 | 48.98 | 57.39 | -8.41 |
| 4 | L1 | 0.4230 | 24.37 | AVG | 10.03 | 34.40 | 47.39 | -12.99 |
| 5 | L1 | 0.6492 | 37.60 | QP | 10.03 | 47.63 | 56.00 | -8.37 |
| 6 | L1 | 0.6492 | 24.05 | AVG | 10.03 | 34.08 | 46.00 | -11.92 |
| 7 | L1 | 1.6593 | 33.70 | QP | 10.04 | 43.74 | 56.00 | -12.26 |
| 8 | L1 | 1.6593 | 20.67 | AVG | 10.04 | 30.71 | 46.00 | -15.29 |
| 9 | L1 | 3.3705 | 32.19 | QP | 10.06 | 42.25 | 56.00 | -13.75 |
| 10 | L1 | 3.3705 | 19.93 | AVG | 10.06 | 29.99 | 46.00 | -16.01 |
| 11 | L1 | 22.2660 | 25.05 | QP | 10.34 | 35.39 | 60.00 | -24.61 |
| 12 | L1 | 22.2660 | 16.55 | AVG | 10.34 | 26.89 | 50.00 | -23.11 |



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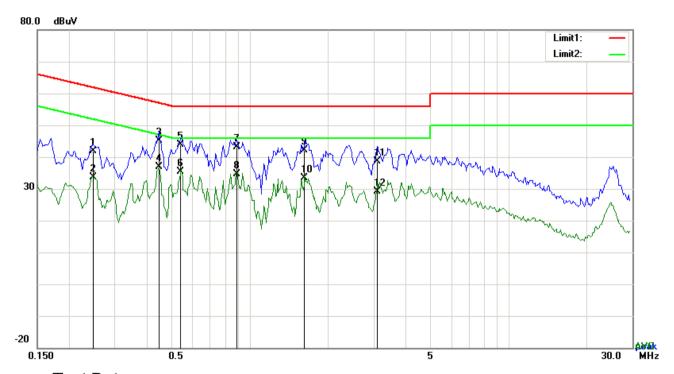
Test Data

Phase Neutral Plot at 120Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|----------------|------------------|-----------------|----------------|
| 1 | N | 0.1968 | 38.22 | QP | 10.02 | 48.24 | 63.74 | -15.50 |
| 2 | N | 0.1968 | 18.48 | AVG | 10.02 | 28.50 | 53.74 | -25.24 |
| 3 | N | 0.2475 | 36.20 | QP | 10.02 | 46.22 | 61.84 | -15.62 |
| 4 | N | 0.2475 | 19.30 | AVG | 10.02 | 29.32 | 51.84 | -22.52 |
| 5 | N | 0.3528 | 34.56 | QP | 10.02 | 44.58 | 58.90 | -14.32 |
| 6 | N | 0.3528 | 21.38 | AVG | 10.02 | 31.40 | 48.90 | -17.50 |
| 7 | N | 0.7467 | 30.88 | QP | 10.02 | 40.90 | 56.00 | -15.10 |
| 8 | N | 0.7467 | 20.36 | AVG | 10.02 | 30.38 | 46.00 | -15.62 |
| 9 | N | 1.7685 | 28.60 | QP | 10.04 | 38.64 | 56.00 | -17.36 |
| 10 | N | 1.7685 | 14.48 | AVG | 10.04 | 24.52 | 46.00 | -21.48 |
| 11 | N | 22.6404 | 20.49 | QP | 10.30 | 30.79 | 60.00 | -29.21 |
| 12 | N | 22.6404 | 12.69 | AVG | 10.30 | 22.99 | 50.00 | -27.01 |



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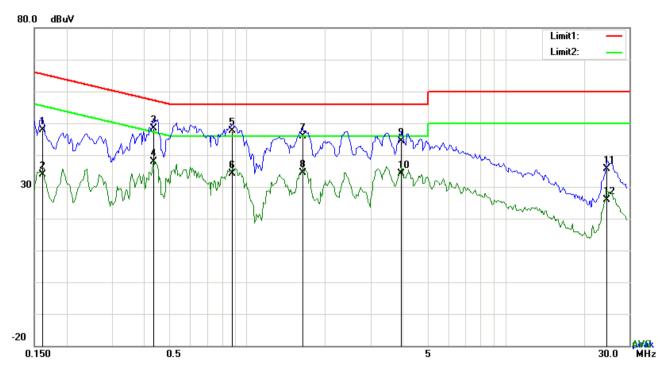
Test Data

Phase Line Plot at 240Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|----------------|------------------|-----------------|----------------|
| 1 | L1 | 0.2475 | 31.88 | QP | 10.03 | 41.91 | 61.84 | -19.93 |
| 2 | L1 | 0.2475 | 23.58 | AVG | 10.03 | 33.61 | 51.84 | -18.23 |
| 3 | L1 | 0.4425 | 35.00 | QP | 10.03 | 45.03 | 57.01 | -11.98 |
| 4 | L1 | 0.4425 | 26.83 | AVG | 10.03 | 36.86 | 47.01 | -10.15 |
| 5 | L1 | 0.5400 | 33.87 | QP | 10.03 | 43.90 | 56.00 | -12.10 |
| 6 | L1 | 0.5400 | 25.43 | AVG | 10.03 | 35.46 | 46.00 | -10.54 |
| 7 | L1 | 0.8871 | 33.01 | QP | 10.03 | 43.04 | 56.00 | -12.96 |
| 8 | L1 | 0.8871 | 24.65 | AVG | 10.03 | 34.68 | 46.00 | -11.32 |
| 9 | L1 | 1.6203 | 32.10 | QP | 10.04 | 42.14 | 56.00 | -13.86 |
| 10 | L1 | 1.6203 | 23.24 | AVG | 10.04 | 33.28 | 46.00 | -12.72 |
| 11 | L1 | 3.1014 | 28.61 | QP | 10.06 | 38.67 | 56.00 | -17.33 |
| 12 | L1 | 3.1014 | 19.06 | AVG | 10.06 | 29.12 | 46.00 | -16.88 |



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Test Data

Phase Neutral Plot at 240Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|----------------|------------------|-----------------|----------------|
| 1 | N | 0.1617 | 37.80 | QP | 10.02 | 47.82 | 65.38 | -17.56 |
| 2 | Ν | 0.1617 | 23.98 | AVG | 10.02 | 34.00 | 55.38 | -21.38 |
| 3 | N | 0.4347 | 38.29 | QP | 10.02 | 48.31 | 57.16 | -8.85 |
| 4 | Ν | 0.4347 | 27.89 | AVG | 10.02 | 37.91 | 47.16 | -9.25 |
| 5 | N | 0.8754 | 37.68 | QP | 10.03 | 47.71 | 56.00 | -8.29 |
| 6 | N | 0.8754 | 24.11 | AVG | 10.03 | 34.14 | 46.00 | -11.86 |
| 7 | N | 1.6437 | 35.87 | QP | 10.04 | 45.91 | 56.00 | -10.09 |
| 8 | N | 1.6437 | 24.34 | AVG | 10.04 | 34.38 | 46.00 | -11.62 |
| 9 | N | 3.9555 | 34.29 | QP | 10.06 | 44.35 | 56.00 | -11.65 |
| 10 | N | 3.9555 | 24.19 | AVG | 10.06 | 34.25 | 46.00 | -11.75 |
| 11 | N | 24.6216 | 25.32 | QP | 10.33 | 35.65 | 60.00 | -24.35 |
| 12 | N | 24.6216 | 15.47 | AVG | 10.33 | 25.80 | 50.00 | -24.20 |



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6.7 Radiated Spurious Emissions & Restricted Band

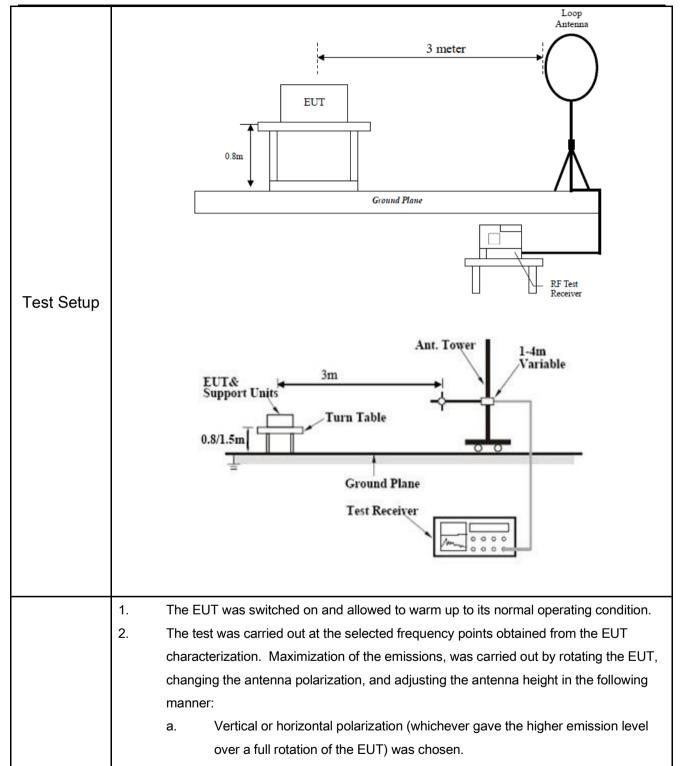
| Temperature | 22 °C |
|----------------------|---------------|
| Relative Humidity | 57% |
| Atmospheric Pressure | 1005mbar |
| Test date : | June 05, 2017 |
| Tested By : | Loren Luo |

Requirement(s):

| Spec | Item | Requirement | Applicable | |
|-----------|------|---|------------------------------------|----------|
| | | Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spet the level of any unwanted emission the fundamental emission. The tight edges | | |
| | | Frequency range (MHz) | Field Strength (μV/m) | |
| | a) | 0.009~0.490 | 2400/F(KHz) | ~ |
| | | 0.490~1.705 | 24000/F(KHz) | |
| | | 1.705~30.0 | 30 | |
| | | 30 – 88 | 100 | |
| 47CFR§15. | | 88 – 216 | 150 | |
| 247(d), | | 216 960 | 200 | |
| RSS210 | | Above 960 | 500 | |
| (A8.5) | | For non-restricted band, In any 100 |) kHz bandwidth outside the | |
| | | frequency band in which the spread | | |
| | | modulated intentional radiator is op | | |
| | | power that is produced by the inter | | |
| | b) | 20 dB or 30dB below that in the 10 | | |
| | -, | band that contains the highest leve | | |
| | | determined by the measurement m | | |
| | | used. Attenuation below the genera | al limits specified in § 15.209(a) | |
| | | is not required 20 dB down 30 | dB down | |
| | ۵۱ | or restricted band, emission must a | | |
| | c) | emission limits specified in 15.209 | | ~ |



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Procedure

- b. The EUT was then rotated to the direction that gave the maximum emission.
- c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is
 120 kHz for Quasiy Peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above



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| | 1GHz. |
|-----------|---|
| | The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video |
| | bandwidth is 10Hz with Peak detection for Average Measurement as below at |
| | frequency above 1GHz. |
| | 5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency |
| | points were measured. |
| Remark | Different RF configuration has been evaluated but not much difference was found. The data |
| Remark | presented here is the worst case data with EUT under 802.11n - HT20-2437MHz mode. |
| Result | Pass Fail |
| | |
| | |
| Test Data | Yes N/A |

Test Result:

| Test Mode: |
|------------|
|------------|

Frequency range: 9KHz - 30MHz

Test Plot Yes (See below)

| Freq. | Detection | Factor | Reading | Result | Limit@3m | Margin |
|-------|-----------|--------|----------|----------|----------|--------|
| (MHz) | value | (dB/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dB) |
| | | | | | | >20 |
| | | | | | | >20 |

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

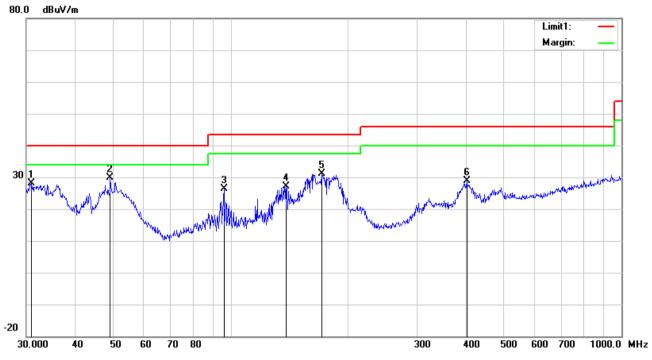
Limit line = specific limits(dBuv) + distance extrapolation factor.



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Test Mode: Transmitting Mode

30MHz -1GHz



Test Data

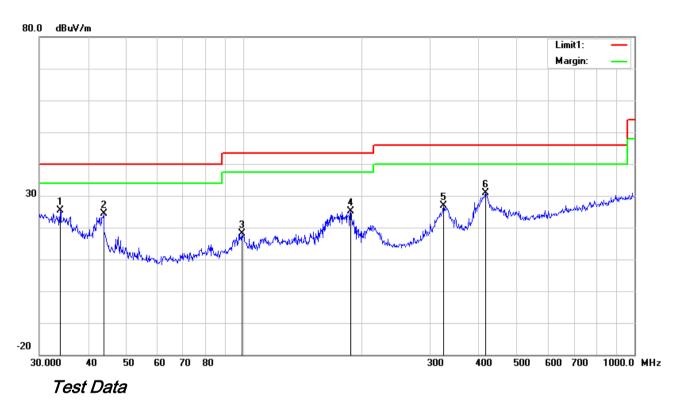
Vertical Polarity Plot @3m

| No. | P/L | Frequency | Reading | Detect or | Ant_F | PA_G | Cab_L | Result | Limit | Margin | Height | Degr ee |
|-----|----------|-----------|----------|--------------|--------|-------|-------|----------|----------|--------|--------|------------|
| | | (MHz) | (dBuV/m) | | (dB/m) | (dB) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | () |
| 1 | ٧ | 30.8535 | 28.91 | peak | 20.74 | 22.27 | 0.64 | 28.02 | 40.00 | -11.98 | 100 | 207 |
| 2 | > | 49.1866 | 42.78 | peak | 8.76 | 22.37 | 0.79 | 29.96 | 40.00 | -10.04 | 200 | 135 |
| 3 | > | 96.0986 | 38.22 | peak | 9.46 | 22.32 | 1.02 | 26.38 | 43.50 | -17.12 | 100 | 227 |
| 4 | V | 138.8735 | 35.57 | peak | 12.67 | 22.41 | 1.26 | 27.09 | 43.50 | -16.41 | 100 | 294 |
| 5 | V | 171.3926 | 40.35 | peak | 11.69 | 22.26 | 1.36 | 31.14 | 43.50 | -12.36 | 100 | 56 |
| 6 | V | 401.8385 | 33.24 | peak | 15.74 | 22.01 | 2.01 | 28.98 | 46.00 | -17.02 | 100 | 118 |



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30MHz -1GHz



Horizontal Polarity Plot @3m

| No. | P/L | Frequency | Reading | Detect or | Ant_F | PA_G | Cab_L | Result | Limit | Margin | Height | Degr ee |
|-----|-----|-----------|----------|--------------|--------|-------|-------|----------|----------|--------|--------|------------|
| | | (MHz) | (dBuV/m) | | (dB/m) | (dB) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | () |
| 1 | Н | 33.9174 | 28.42 | peak | 18.38 | 22.26 | 0.73 | 25.27 | 40.00 | -14.73 | 100 | 327 |
| 2 | Н | 43.8119 | 34.59 | peak | 11.38 | 22.29 | 0.76 | 24.44 | 40.00 | -15.56 | 100 | 99 |
| 3 | Н | 98.8326 | 29.17 | peak | 10.12 | 22.32 | 1.09 | 18.06 | 43.50 | -25.44 | 100 | 251 |
| 4 | Н | 187.7530 | 34.51 | peak | 11.43 | 22.30 | 1.50 | 25.14 | 43.50 | -18.36 | 200 | 155 |
| 5 | Н | 324.4561 | 33.08 | peak | 14.11 | 22.22 | 1.91 | 26.88 | 46.00 | -19.12 | 100 | 170 |
| 6 | H | 416.1791 | 34.87 | peak | 16.02 | 21.98 | 2.05 | 30.96 | 46.00 | -15.04 | 100 | 239 |



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Above 1GHz

| de: Trans |
|-----------|
|-----------|

Low Channel (2412 MHz) (b mode worst case)

| Frequency (MHz) | S.A. Reading (dBµV) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord Amp. (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|--------------------------|--------------------------|-------------------|----------------|
| 4824 | 39.32 | AV | V | 33.8 | 6.86 | 32.69 | 47.29 | 54 | -6.71 |
| 4824 | 38.35 | AV | Н | 33.8 | 6.86 | 32.69 | 46.32 | 54 | -7.68 |
| 4824 | 48.26 | PK | V | 33.8 | 6.86 | 32.69 | 56.23 | 74 | -17.77 |
| 4824 | 47.64 | PK | Н | 33.8 | 6.86 | 32.69 | 55.61 | 74 | -18.39 |
| 17895 | 23.71 | AV | V | 45.12 | 11.57 | 32.11 | 48.29 | 54 | -5.71 |
| 17895 | 23.29 | AV | Н | 45.12 | 11.57 | 32.11 | 47.87 | 54 | -6.13 |
| 17895 | 39.63 | PK | V | 45.12 | 11.57 | 32.11 | 64.21 | 74 | -9.79 |
| 17895 | 39.16 | PK | Н | 45.12 | 11.57 | 32.11 | 63.74 | 74 | -10.26 |

Middle Channel (2437 MHz) (b mode worst case)

| Frequency (MHz) | S.A. Reading (dBµV) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord Amp. (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|--------------------------|--------------------------|-------------------|----------------|
| 4874 | 38.65 | AV | V | 33.6 | 6.82 | 32.71 | 46.36 | 54 | -7.64 |
| 4874 | 39.52 | AV | Η | 33.6 | 6.82 | 32.71 | 47.23 | 54 | -6.77 |
| 4874 | 47.77 | PK | V | 33.6 | 6.82 | 32.71 | 55.48 | 74 | -18.52 |
| 4874 | 48.26 | PK | Η | 33.6 | 6.82 | 32.71 | 55.97 | 74 | -18.03 |
| 17929 | 23.98 | AV | V | 45.17 | 11.63 | 32.18 | 48.6 | 54 | -5.4 |
| 17929 | 22.44 | AV | Η | 45.17 | 11.63 | 32.18 | 47.06 | 54 | -6.94 |
| 17929 | 39.14 | PK | V | 45.17 | 11.63 | 32.18 | 63.76 | 74 | -10.24 |
| 17929 | 39.67 | PK | Н | 45.17 | 11.63 | 32.18 | 64.29 | 74 | -9.71 |



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High Channel (2462 MHz) (b mode worst case)

| Frequency (MHz) | S.A. Reading (dBµV) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord Amp. (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|--------------------------|--------------------------|-------------------|----------------|
| 4924 | 39.63 | AV | V | 33.83 | 6.95 | 32.79 | 47.62 | 54 | -6.38 |
| 4924 | 38.49 | AV | Н | 33.83 | 6.95 | 32.79 | 46.48 | 54 | -7.52 |
| 4924 | 47.71 | PK | V | 33.83 | 6.95 | 32.79 | 55.7 | 74 | -18.3 |
| 4924 | 47.95 | PK | Н | 33.83 | 6.95 | 32.79 | 55.94 | 74 | -18.06 |
| 17916 | 23.3 | AV | V | 45.19 | 11.61 | 32.24 | 47.86 | 54 | -6.14 |
| 17916 | 23.31 | AV | Н | 45.19 | 11.61 | 32.24 | 47.87 | 54 | -6.13 |
| 17916 | 40.73 | PK | V | 45.19 | 11.61 | 32.24 | 65.29 | 74 | -8.71 |
| 17916 | 39.21 | PK | Н | 45.19 | 11.61 | 32.24 | 63.77 | 74 | -10.23 |

Note:

- 1, The testing has been conformed to 10*2462MHz=24,620MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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Annex A. TEST INSTRUMENT

| Instrument | Model | Serial# | Cal Date | Cal Due | In use |
|---|----------|-------------|------------|------------|-------------|
| | | | | 0 | |
| AC Line Conducted | | | | | _ |
| EMI test receiver | ESCS30 | 8471241027 | 09/16/2016 | 09/15/2017 | V |
| Line Impedance | LI-125A | 191106 | 09/24/2016 | 09/23/2017 | ~ |
| Line Impedance | LI-125A | 191107 | 09/24/2016 | 09/23/2017 | ~ |
| ISN | ISN T800 | 34373 | 09/24/2016 | 09/23/2017 | |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 09/23/2016 | 09/22/2017 | • |
| Transient Limiter | LIT-153 | 531118 | 08/31/2016 | 08/30/2017 | ✓ |
| RF conducted test | | | | | |
| Agilent ESA-E SERIES | E4407B | MY45108319 | 09/16/2016 | 09/15/2017 | ~ |
| Power Splitter | 1# | 1# | 08/31/2016 | 08/30/2017 | ~ |
| DC Power Supply | E3640A | MY40004013 | 09/16/2016 | 09/15/2017 | ~ |
| Radiated Emissions | | | | | |
| EMI test receiver | ESL6 | 100262 | 09/16/2016 | 09/15/2017 | ~ |
| Positioning Controller | UC3000 | MF780208282 | 11/18/2016 | 11/17/2017 | ~ |
| OPT 010 AMPLIFIER (0.1-1300MHz) | 8447E | 2727A02430 | 08/31/2016 | 08/30/2017 | V |
| Microwave Preamplifier (1 ~ 26.5GHz) | 8449B | 3008A02402 | 03/23/2017 | 03/22/2018 | > |
| Active Antenna (9kHz-30MHz) | AL-130 | 121031 | 10/13/2016 | 10/12/2017 | ✓ |
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/20/2016 | 09/19/2017 | ✓ |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 09/23/2016 | 09/22/2017 | ~ |
| Universal Radio Communication Tester | CMU200 | 121393 | 09/24/2016 | 09/23/2017 | V |



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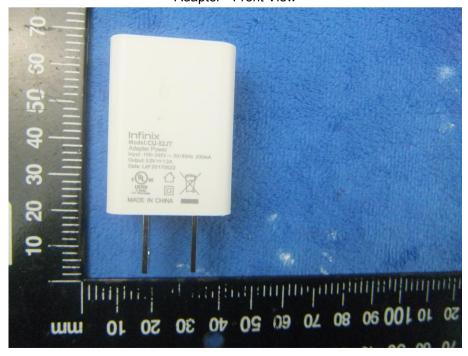
Annex B. EUT and Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





Adapter - Front View





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EUT - Front View



EUT - Rear View



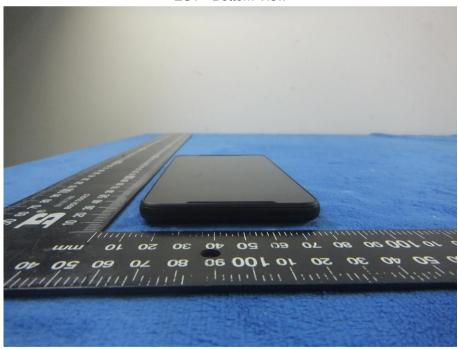


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EUT - Top View



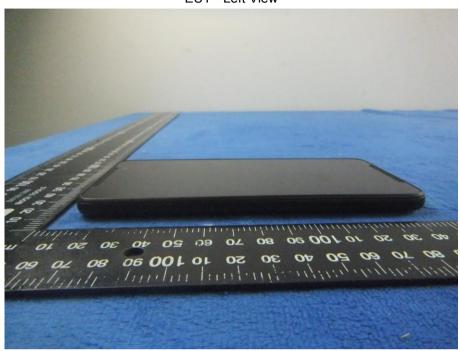
EUT - Bottom View





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EUT - Left View



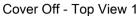
EUT - Right View





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Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View 2



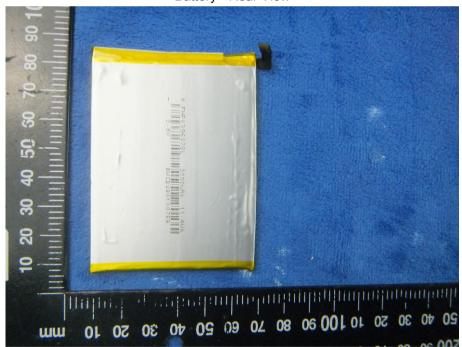


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Battery - Front View



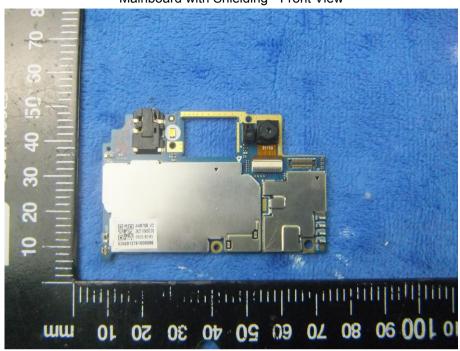
Battery - Rear View



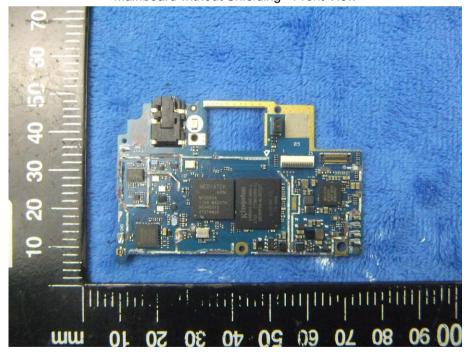


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Mainboard with Shielding - Front View



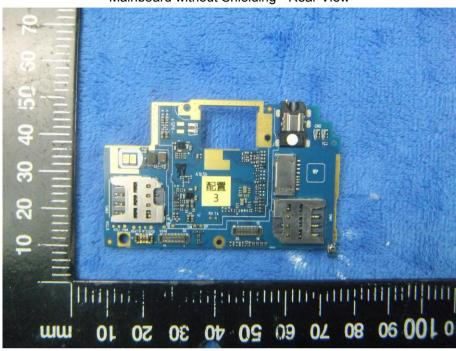
Mainboard without Shielding - Front View



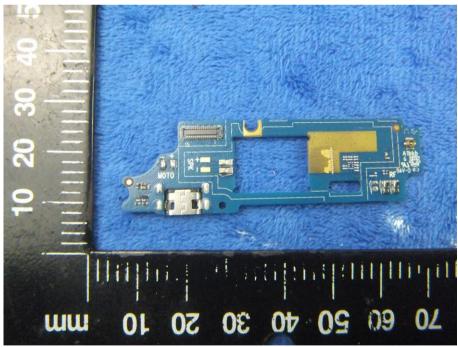


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Mainboard without Shielding - Rear View



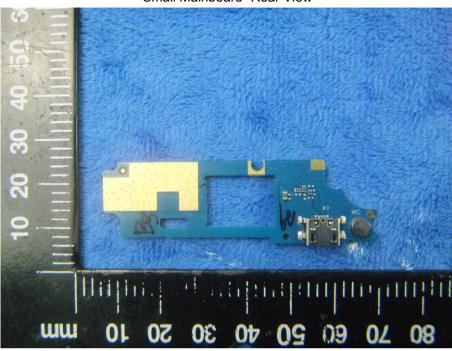
Small Mainboard - Front View





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Small Mainboard -Rear View



LCD - Front View





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LCD - Rear View



GSM/PCS/UMTS - Antenna View





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BT/WIFI - Antenna View





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Annex B.iii. Photograph: Test Setup Photo



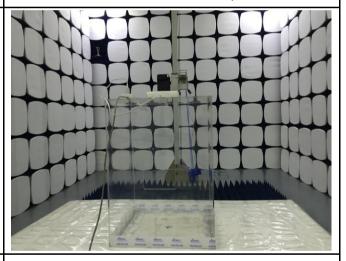
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

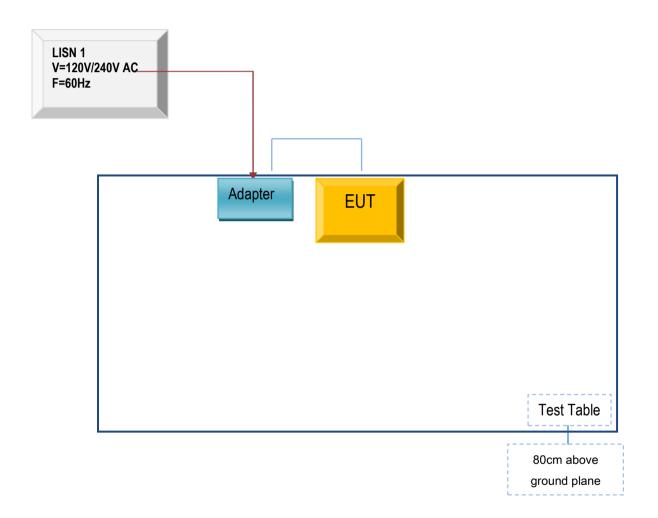


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

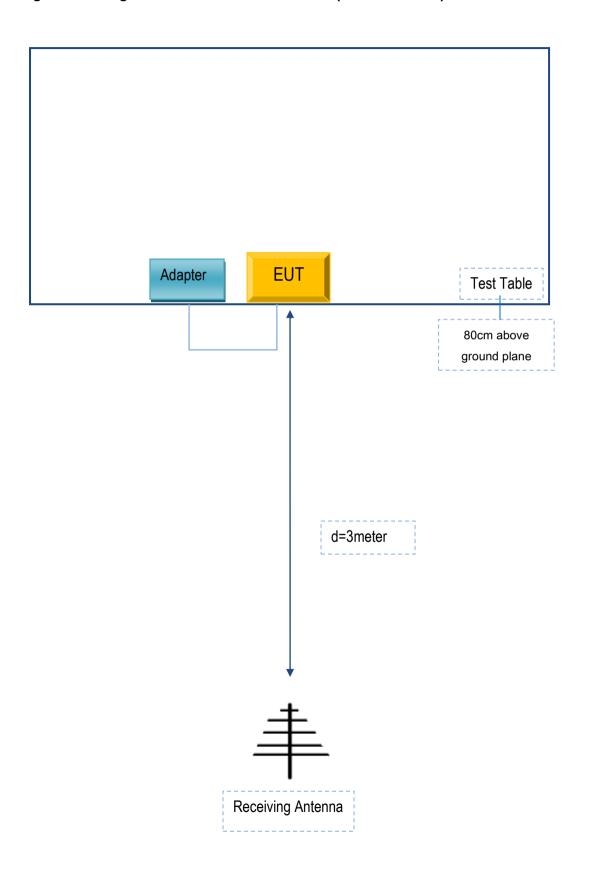
Block Configuration Diagram for AC Line Conducted Emissions





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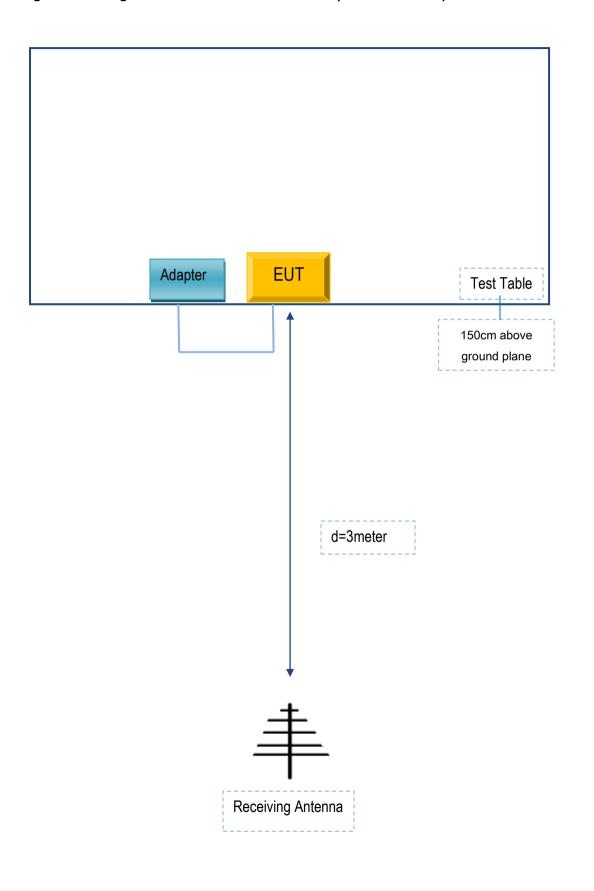
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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Block Configuration Diagram for Radiated Emissions (Above 1GHz) .





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|---|-----------------|--------------------|
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Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

| Manufacturer | Equipment Description | Model | Serial No |
|-----------------------------|--------------------------|---------|-----------|
| INFINIX MOBILITY LIMITED | Adapter | CU-52JT | SA580 |

Supporting Cable:

| Cable type | Shield Type | Ferrite Core | Length | Serial No |
|------------|--------------|-----------------|--------|-----------|
| USB Cable | Un-shielding | No | 0.8m | SA580 |



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Annex D. User Manual / Block Diagram / Schematics / Partlist Please see the attachment



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Annex E. DECLARATION OF SIMILARITY

N/A