RF TEST REPORT



Report No.: 16070254-FCC-R3
Supersede Report No.: N/A

| Applicant | Verykool USA Inc | | |
|-------------------------|--|--|--|
| Product Name | Mobile phone | | |
| Model No. | s5530 | | |
| Serial No. | N/A | | |
| Test Standard | FCC Part 15.247: 2015, ANSI C63.10: 2013 | | |
| Test Date | January 28 to March 02&April 06, 2016 &April 26, 2016 | | |
| Issue Date | April 26, 2016 | | |
| Test Result | Pass Fail | | |
| Equipment compl | Equipment complied with the specification | | |
| Equipment did no | comply with the specification | | |
| Winnie.Z | heng David Huang | | |
| Winnie Zh Test Engir | 200 Control of the Co | | |

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

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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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 |
|-----------------|----------------|-------------|----------------|
| 16070254-FCC-R3 | NONE | Original | April 15, 2016 |
| 16070254-FCC-R3 | V1 | Adding data | April 26, 2016 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| Applicant Name | Verykool USA Inc |
|------------------|--|
| Applicant Add | 3636 Nobel Drive, Suite 325, San Diego, California 92122 United States |
| Manufacturer | Zechin Communications Co.,Ltd. |
| Manufacturer Add | Unit804,8th Floor Desay Tech Building Gaoxin, Road South, |
| | Nanshan District Shenzhen,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 | Radiated Emission Program-To Shenzhen v2.0 |



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4. Equipment under Test (EUT) Information

Description of EUT: Mobile phone

Main Model: s5530

Serial Model: N/A

Date EUT received: January 27, 2016

Test Date(s): January 28 to March 02&April 06, 2016 &April 26, 2016

Equipment Category : DTS

Antenna Gain:

Type of Modulation:

GSM850: 1.6dBi PCS1900: 3.8 dBi

UMTS-FDD Band V: 1.7 dBi

UMTS-FDD Band IV: 3.7 dBi

UMTS-FDD Band II: 3.8 dBi

Bluetooth/BLE: 3 dBi

WIFI: 2.9 dBi GPS:1.6 dBi

GSM / GPRS: GMSK

EGPRS: GMSK

UMTS-FDD: QPSK, 16QAM 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

UMTS-FDD Band IV TX:1712.4 ~ 1752.6 MHz;

RF Operating Frequency (ies):

RX : 2112.4 ~ 2152.6 MHz

UMTS-FDD Band II TX:1852.4 \sim 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

WIFI:802.11b/g/n(20M): 2412-2462 MHz



Number of Channels:

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WIFI:802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz

GPS RX:1575.42 MHz

802.11b:9.36 dBm

802.11g: 9.13dBm Max. Output Power:

802.11n(20M): 8.97dBm 802.11n(40M): 8.96dBm

GSM 850: 124CH PCS1900: 299CH

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

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

WIFI:802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: Power Port, Earphone Port, USB Port

Adapter:

Model: SC050100-US

Input: AC 100-240V; 50/60Hz;0.4A

Output: DC 5.0V,1A

Input Power:

Battery:

Model: 336190PV

Spec:3.8V,2800mAh,10.64Wh Limited charger voltage :4.35V

Trade Name: verykool

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

FCC ID: WA6S5530



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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:

| Description of Test | Result | |
|--|---|--|
| Antenna Requirement | Compliance | |
| DTS (6 dB&20 dB) CHANNEL BANDWIDTH | Compliance | |
| Conducted Maximum Output Power | Compliance | |
| Power Spectral Density | Compliance | |
| Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands | Compliance | |
| AC Power Line Conducted Emissions Compliance | | |
| Radiated Spurious Emissions & Unwanted Emissions | Compliance | |
| | Antenna Requirement DTS (6 dB&20 dB) CHANNEL BANDWIDTH Conducted Maximum Output Power Power Spectral Density Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands AC Power Line Conducted Emissions | |

Measurement Uncertainty

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



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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 Bluetooth/BLE/WIFI, the gain is 3dBi for Bluetooth/BLE, the gain is 2.9dBi for WIFI.

A permanently attached PIFA antenna for GSM/PCS and UMTS, the gain is 1.6dBi for GSM850, 3.8dBi for PCS1900,1.7dBi for UMTS-FDD Band V, 3.7dBi for UMTS-FDD Band IV, 3.8dBi for UMTS-FDD Band II. A permanently attached PIFA antenna for GPS, the gain is 1.6dBi 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 | 22°C |
|----------------------|-------------------|
| Relative Humidity | 53% |
| Atmospheric Pressure | 1029mbar |
| Test date : | February 29, 2016 |
| Tested By : | Winnie Zhang |

| | 1 | | | | | |
|----------------|---|--|--|--|--|--|
| Spec | Item | Item Requirement Applicab | | | | |
| § 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 | | | | |
| | 6dB b | 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. Set 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. | | | | | |
| | 5. Once the reference level is established, the equipment is conditioned 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

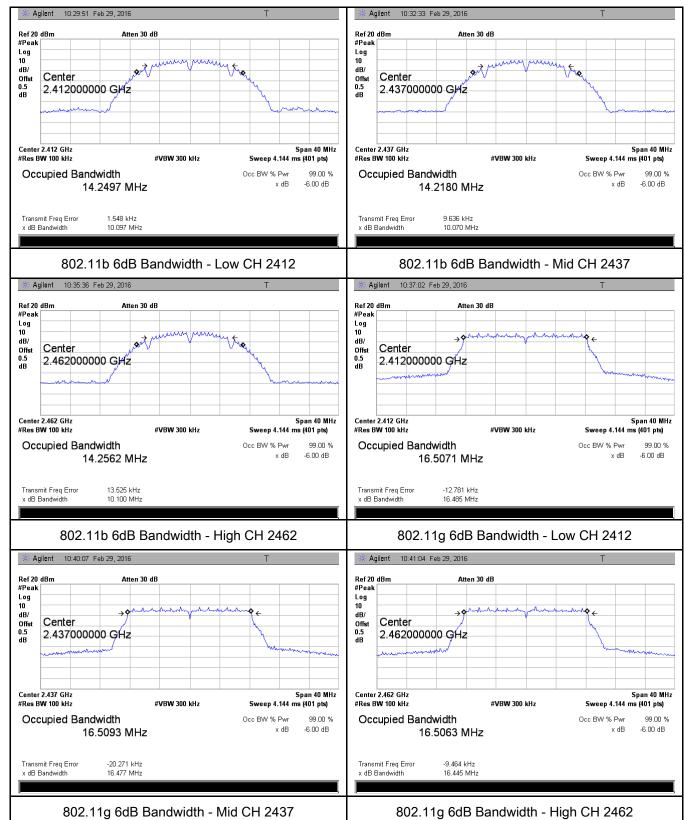
| Test mode | СН | Freq (MHz) | 6dB Bandwidth (MHz) | 20dB Bandwidth (MHz) | Limit (MHz) |
|-----------|------|------------|------------------------|-------------------------|-------------|
| | Low | 2412 | 10.097 | 16.427 | ≥ 0.5 |
| 802.11b | Mid | 2437 | 10.070 | 16.421 | ≥ 0.5 |
| | High | 2462 | 10.100 | 16.375 | ≥ 0.5 |
| | Low | 2412 | 16.485 | 19.207 | ≥ 0.5 |
| 802.11g | Mid | 2437 | 16.477 | 19.331 | ≥ 0.5 |
| | High | 2462 | 16.445 | 19.238 | ≥ 0.5 |
| 000 44 m | Low | 2412 | 17.694 | 19.733 | ≥ 0.5 |
| 802.11n | Mid | 2437 | 17.674 | 19.505 | ≥ 0.5 |
| (20M) | High | 2462 | 17.686 | 19.784 | ≥ 0.5 |
| 000 44 | Low | 2422 | 36.321 | 40.091 | ≥ 0.5 |
| 802.11n | Mid | 2437 | 36.297 | 40.080 | ≥ 0.5 |
| (40M) | High | 2452 | 36.332 | 39.984 | ≥ 0.5 |



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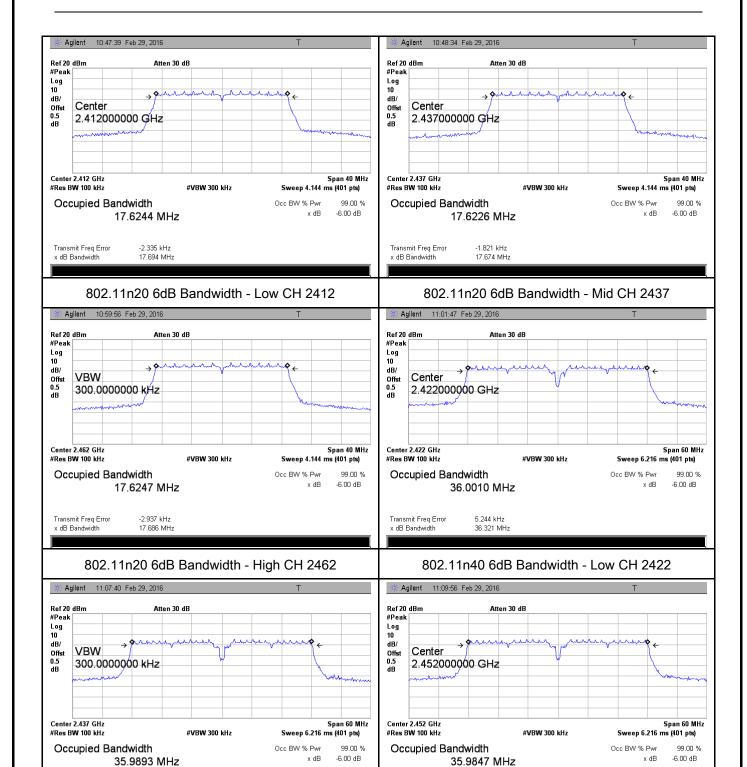
Test Plots

6dB Bandwidth measurement result





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Transmit Freq Error x dB Bandwidth

802.11n40 6dB Bandwidth - Mid CH 2437

2.923 kHz

Transmit Freq Error

x dB Bandwidth

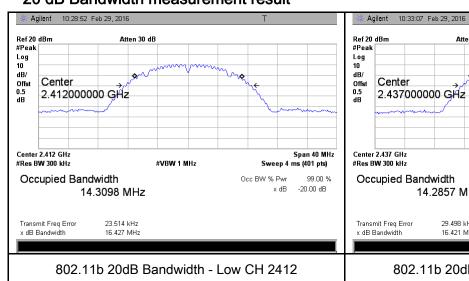
802.11n40 6dB Bandwidth - High CH 2452

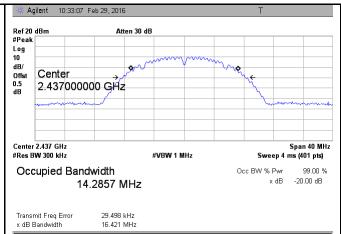
2.468 kHz

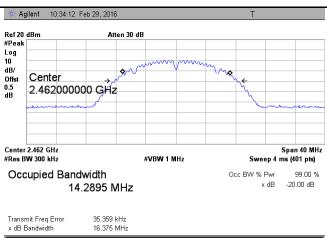


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20 dB Bandwidth measurement result



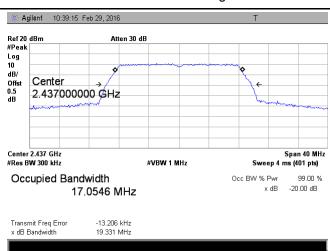




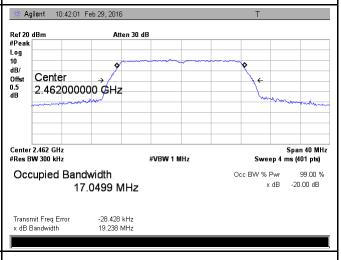
802.11b 20dB Bandwidth - Mid CH 2437



802.11b 20dB Bandwidth - High CH 2462



802.11g 20dB Bandwidth - Low CH 2412

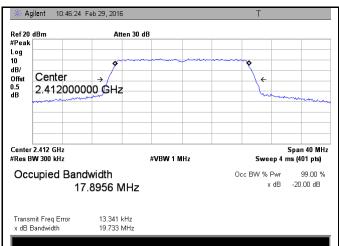


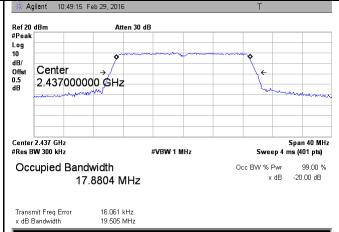
802.11g 20dB Bandwidth - Mid CH 2437

802.11g 20dB Bandwidth - High CH 2462



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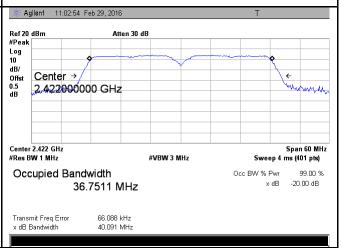




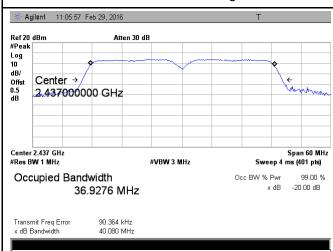
802.11n20 20dB Bandwidth - Low CH 2412



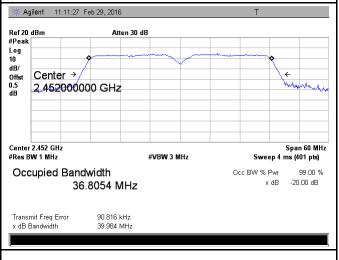
802.11n20 20dB Bandwidth - Mid CH 2437



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 | 22°C |
|----------------------|-------------------|
| Relative Humidity | 53% |
| Atmospheric Pressure | 1029mbar |
| Test date : | February 29, 2016 |
| Tested By: | Winnie Zhang |

Requirement(s):

| Requirement(s): | Ite | Requirement | Applicable | | | | |
|-----------------|---|--|------------|--|--|--|--|
| Spec | | Дри | | | | | |
| | m | | | | | | |
| | a) | FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt | | | | | |
| | b) | FHSS in 5725-5850MHz: ≤ 1 Watt | | | | | |
| §15.247(b) | c) | For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt. | | | | | |
| (3),RSS210 | | | | | | | |
| (A8.4) | d) | FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt | | | | | |
| , | e) | FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25 | | | | | |
| | | Watt | | | | | |
| | f) | DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt | <u> </u> | | | | |
| Test Setup | Spectrum Analyzer EUT | | | | | | |
| | 558074 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power method | | | | | | |
| | Maxim | num 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-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.) | | | | | | |
| Procedure | | | | | | | |
| | - e) Sweep time = auto. | | | | | | |
| | - f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample | | | | | | |
| | | detector mode. | | | | | |
| | g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable | | | | | | |
| | triggering only on full power pulses. The transmitter shall operate at 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 | Freq (MHz) | Conducted Power (dBm) | Limit (dBm) | Result |
|--------|--------------------------------------|------|------------|-----------------------|----------------|--------|
| | | Low | 2412 | 9.36 | 30 | Pass |
| | 802.11b | Mid | 2437 | 8.46 | 30 | Pass |
| | | High | 2462 | 8.21 | 30 | Pass |
| | | Low | 2412 | 9.13 | 30 | Pass |
| | 802.11g | Mid | 2437 | 8.76 | 30 | Pass |
| Output | | High | 2462 | 7.96 | 30 | Pass |
| power | 000 11= | Low | 2412 | 8.97 | 30 | Pass |
| | 802.11n (20M) 802.11n (40M) | Mid | 2437 | 8.48 | 30 | Pass |
| | | High | 2462 | 8.26 | 30 | Pass |
| | | Low | 2422 | 8.96 | 30 | Pass |
| | | Mid | 2437 | 7.86 | 30 | Pass |
| | | High | 2452 | 8.05 | 30 | Pass |



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Test Plots

The Average Power

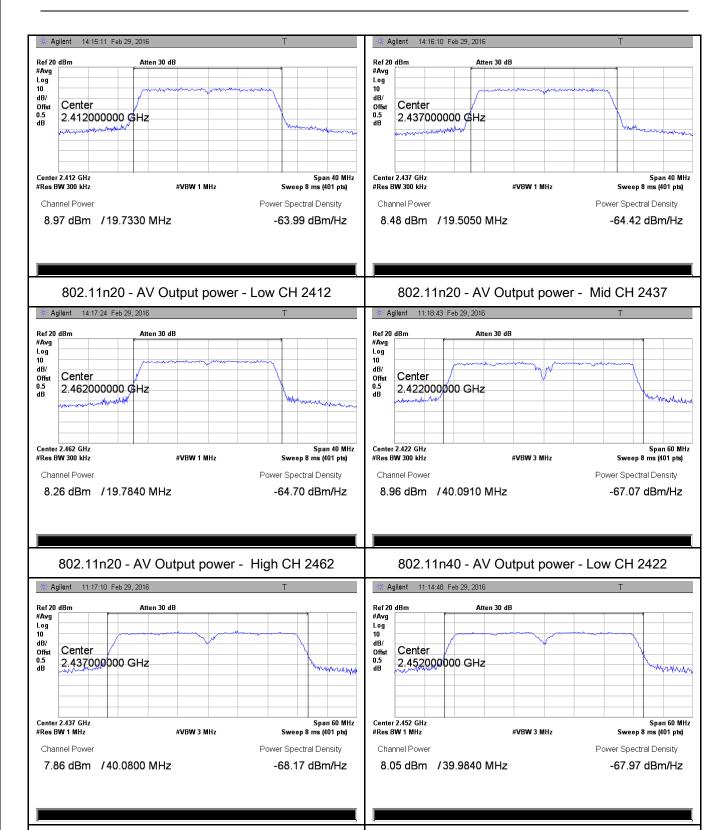




802.11n40 - AV Output power - Mid CH 2437

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802.11n40 - AV Output power - High CH 2452





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6.4 Power Spectral Density

| Temperature | 22°C | |
|----------------------|-------------------|--|
| Relative Humidity | 53% | |
| Atmospheric Pressure | 1029mbar | |
| Test date : | February 29, 2016 | |
| Tested By : | Winnie Zhang | |

| Spec | Item | Requirement | Applicable |
|-------------------|---|--|------------|
| §15.247(e) | 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 | 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. - h) Allow trace to fully stabilize. - i) Use the peak marker function to determine the maximum amplitude level within the RBW. - j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and | | |
| Remark | | | |
| Result | Pas | ss Fail | |



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Test Data
Test Plot

Yes

Yes (See below)

□_{N/A}

Power Spectral Density measurement result

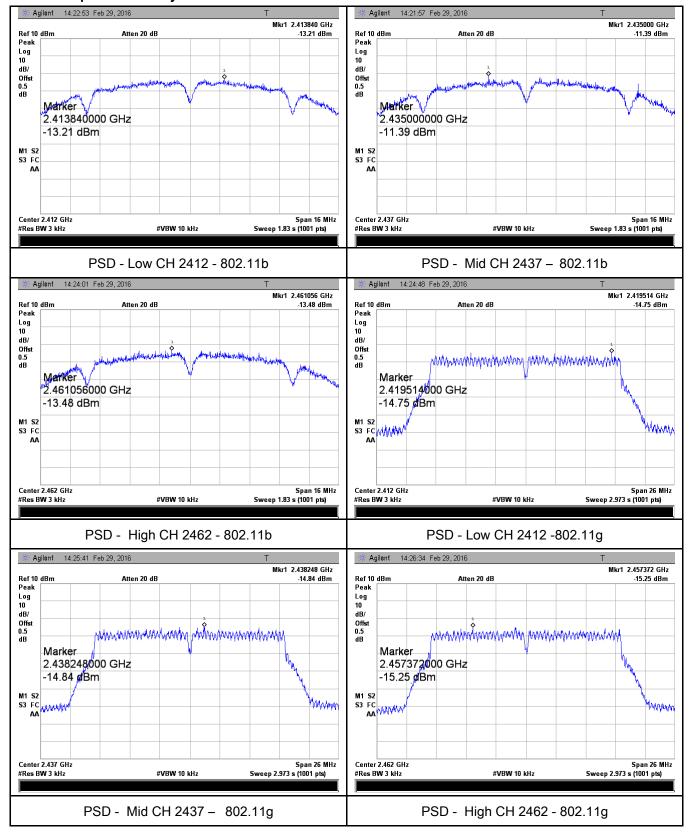
| Туре | Test mode | СН | Freq (MHz) | PSD (dBm) | Limit (dBm) | Result |
|------|-----------|------|---------------|--------------|----------------|--------|
| | | Low | 2412 | -13.21 | 8 | Pass |
| | 802.11b | Mid | 2437 | -11.39 | 8 | Pass |
| | | High | 2462 | -13.48 | 8 | Pass |
| | | Low | 2412 | -14.75 | 8 | Pass |
| | 802.11g | Mid | 2437 | -14.84 | 8 | Pass |
| PSD | | High | 2462 | -15.25 | 8 | Pass |
| PSD | 802.11n | Low | 2412 | -15.51 | 8 | Pass |
| | (20M) | Mid | 2437 | -16.12 | 8 | Pass |
| | | High | 2462 | -13.98 | 8 | Pass |
| | 000 44 | Low | 2422 | -17.73 | 8 | Pass |
| | 802.11n | Mid | 2437 | -18.13 | 8 | Pass |
| | (40M) | High | 2452 | -17.36 | 8 | Pass |



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|-----------------|-----------------|--|
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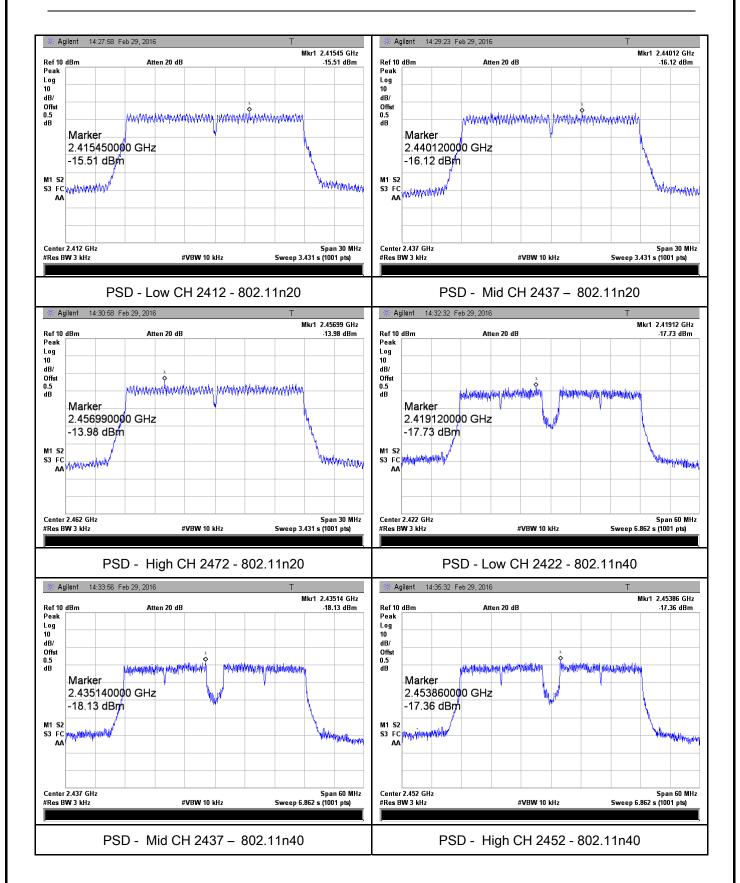
Test Plots

Power Spectral Density measurement result





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6.5 Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands

| Temperature | 23°C |
|----------------------|----------------|
| Relative Humidity | 58% |
| Atmospheric Pressure | 1006mbar |
| Test date : | April 06, 2016 |
| Tested By : | Winnie Zhang |

Requirement(s):

| Spec | Item | Requirement Applicable | | |
|-------------------|---|---|--|--|
| §15.247(d) | a) | 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. | | |
| Test Setup | 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 |
| Test Plot | Yes (See below) |
| 1 621 LIN | 1 63 (Occ below) |



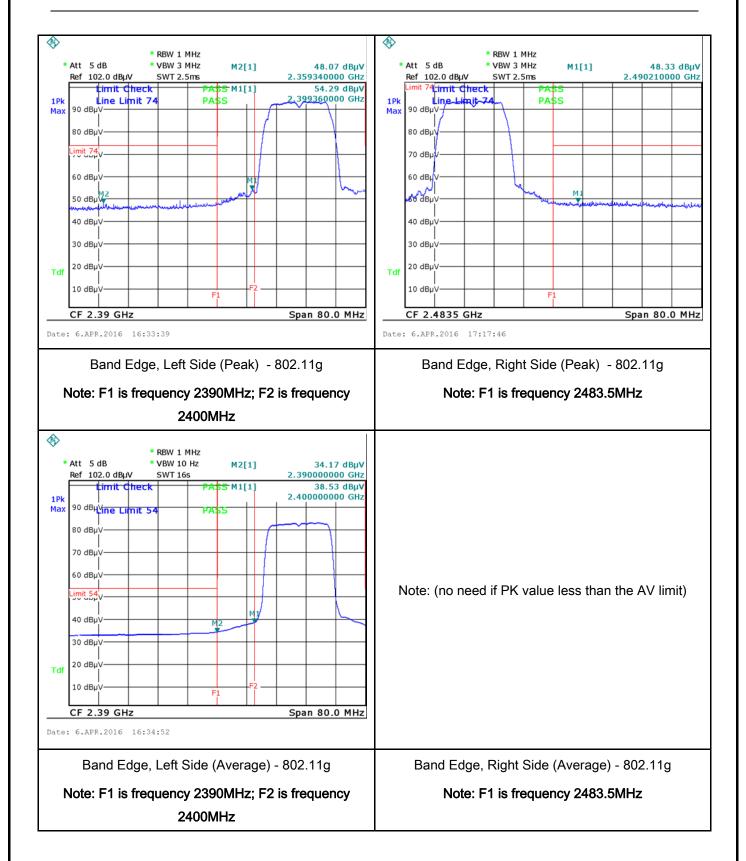
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|-----------------|-----------------|
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Test Plots Band Edge measurement result



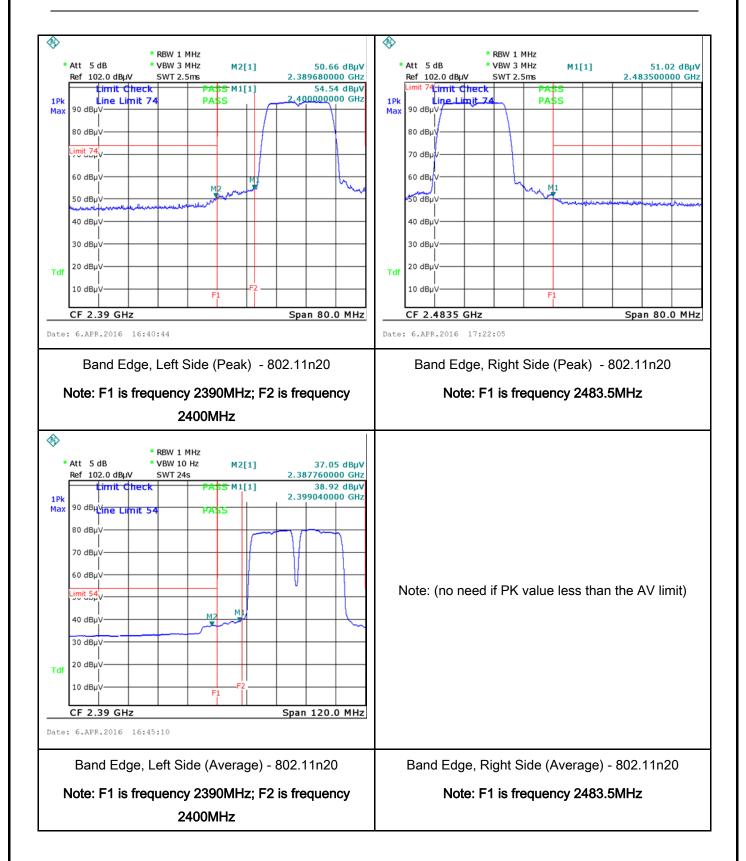


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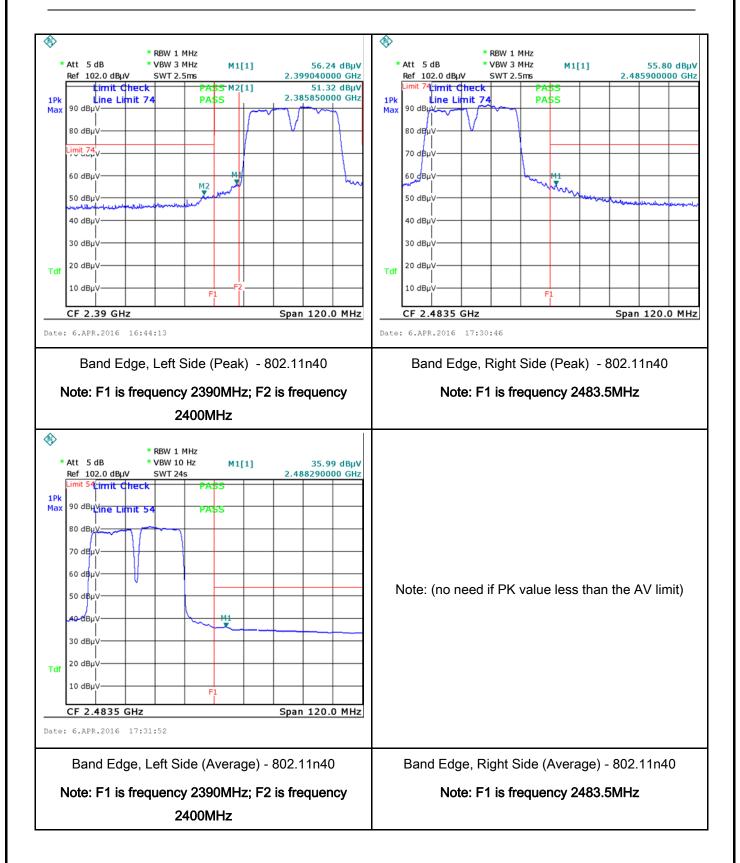


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6.6 AC Power Line Conducted Emissions

| Temperature | 23°C |
|----------------------|----------------|
| Relative Humidity | 58% |
| Atmospheric Pressure | 1006mbar |
| Test date : | April 06, 2016 |
| Tested By : | Winnie Zhang |

Requirement(s):

| Spec | Item | Requirement Ap | | | | | |
|---------------------------------------|---|-------------------|----------|---|-------------|--|--|
| 47CFR§15. 207, RSS210 (A8.1) | a) | | | the radio frequency ower line on any kHz to 30 MHz, shall measured using a 50 network (LISN). The de frequencies ranges. | > | | |
| | | 0.5 ~ 5 5 ~ 30 | 56 60 | 46 50 | | | |
| Test Setup | Vertical Ground Reference Plane Horizontal Ground Reference Plane Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm | | | | | | |
| Procedure | 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. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss | | | | | | |



Test Plot

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|-----------------|-----------------|
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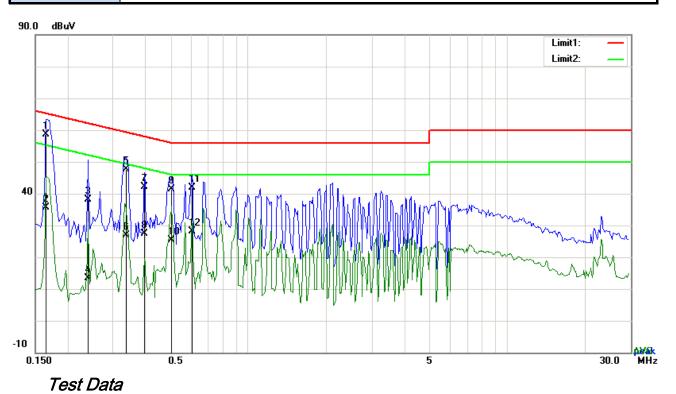
| | coaxial cable. | | | | |
|-----------|--|--|--|--|--|
| | 4. All other supporting equipment were powered separately from another main supply. | | | | |
| | 5. The EUT was switched on and allowed to warm up to its normal operating condition. | | | | |
| | 6. A scan was made on the NEUTRAL line (for 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. | | | | |
| | 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 | | | | |

Yes (See below)



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|-----------------|-----------------|
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| Test Mode: | Transmitting Mode |
|------------|-------------------|
| | I |



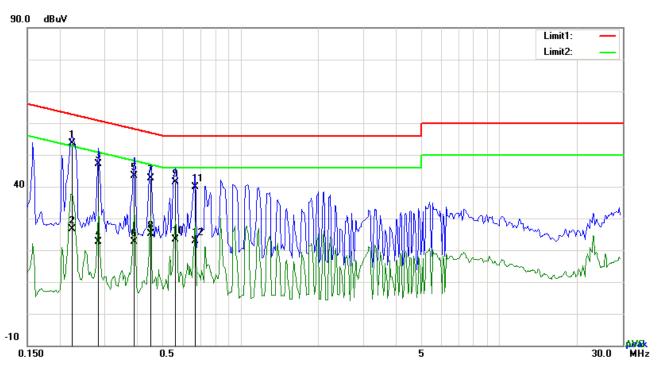
Phase Line Plot at 120Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|----------------|------------------|-----------------|----------------|
| 1 | L1 | 0.1656 | 48.67 | QP | 10.03 | 58.70 | 65.18 | -6.48 |
| 2 | L1 | 0.1656 | 25.57 | AVG | 10.03 | 35.60 | 55.18 | -19.58 |
| 3 | L1 | 0.2397 | 28.03 | QP | 10.03 | 38.06 | 62.11 | -24.05 |
| 4 | L1 | 0.2397 | 3.43 | AVG | 10.03 | 13.46 | 52.11 | -38.65 |
| 5 | L1 | 0.3372 | 37.69 | QP | 10.03 | 47.72 | 59.27 | -11.55 |
| 6 | L1 | 0.3372 | 16.83 | AVG | 10.03 | 26.86 | 49.27 | -22.41 |
| 7 | L1 | 0.3957 | 31.98 | QP | 10.03 | 42.01 | 57.94 | -15.93 |
| 8 | L1 | 0.3957 | 17.27 | AVG | 10.03 | 27.30 | 47.94 | -20.64 |
| 9 | L1 | 0.5049 | 31.43 | QP | 10.03 | 41.46 | 56.00 | -14.54 |
| 10 | L1 | 0.5049 | 15.29 | AVG | 10.03 | 25.32 | 46.00 | -20.68 |
| 11 | L1 | 0.6063 | 31.76 | QP | 10.03 | 41.79 | 56.00 | -14.21 |
| 12 | L1 | 0.6063 | 18.09 | AVG | 10.03 | 28.12 | 46.00 | -17.88 |



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Test Mode: Transmitting Mode



Test Data

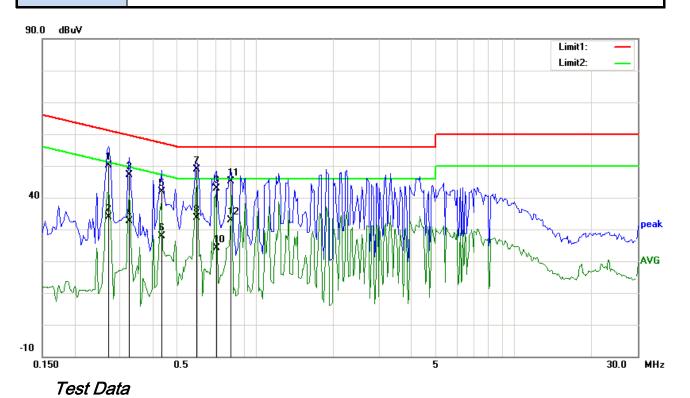
Phase Neutral Plot at 120Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|----------------|------------------|-----------------|----------------|
| 1 | N | 0.2241 | 43.60 | QP | 10.02 | 53.62 | 62.67 | -9.05 |
| 2 | N | 0.2241 | 16.73 | AVG | 10.02 | 26.75 | 52.67 | -25.92 |
| 3 | N | 0.2826 | 37.22 | QP | 10.02 | 47.24 | 60.74 | -13.50 |
| 4 | N | 0.2826 | 12.49 | AVG | 10.02 | 22.51 | 50.74 | -28.23 |
| 5 | N | 0.3879 | 33.45 | QP | 10.02 | 43.47 | 58.11 | -14.64 |
| 6 | N | 0.3879 | 12.67 | AVG | 10.02 | 22.69 | 48.11 | -25.42 |
| 7 | N | 0.4503 | 32.68 | QP | 10.02 | 42.70 | 56.87 | -14.17 |
| 8 | N | 0.4503 | 15.13 | AVG | 10.02 | 25.15 | 46.87 | -21.72 |
| 9 | N | 0.5634 | 31.34 | QP | 10.02 | 41.36 | 56.00 | -14.64 |
| 10 | N | 0.5634 | 13.33 | AVG | 10.02 | 23.35 | 46.00 | -22.65 |
| 11 | N | 0.6687 | 29.93 | QP | 10.02 | 39.95 | 56.00 | -16.05 |
| 12 | Ν | 0.6687 | 12.94 | AVG | 10.02 | 22.96 | 46.00 | -23.04 |



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

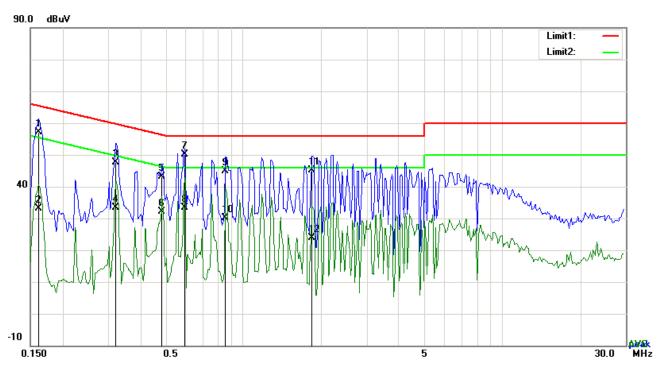


| | Phase Line Plot at 240Vac, 60Hz | | | | | | | |
|-----|---------------------------------|--------------------|-------------------|----------|----------------|------------------|-----------------|----------------|
| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
| 1 | L1 | 0.2709 | 40.00 | QP | 10.03 | 50.03 | 61.09 | -11.06 |
| 2 | L1 | 0.2709 | 23.83 | AVG | 10.03 | 33.86 | 51.09 | -17.23 |
| 3 | L1 | 0.3255 | 37.17 | QP | 10.03 | 47.20 | 59.57 | -12.37 |
| 4 | L1 | 0.3255 | 22.48 | AVG | 10.03 | 32.51 | 49.57 | -17.06 |
| 5 | L1 | 0.4347 | 31.94 | QP | 10.03 | 41.97 | 57.16 | -15.19 |
| 6 | L1 | 0.4347 | 17.75 | AVG | 10.03 | 27.78 | 47.16 | -19.38 |
| 7 | L1 | 0.5946 | 38.78 | QP | 10.03 | 48.81 | 56.00 | -7.19 |
| 8 | L1 | 0.5946 | 23.58 | AVG | 10.03 | 33.61 | 46.00 | -12.39 |
| 9 | L1 | 0.7077 | 32.76 | QP | 10.03 | 42.79 | 56.00 | -13.21 |
| 10 | L1 | 0.7077 | 14.08 | AVG | 10.03 | 24.11 | 46.00 | -21.89 |
| 11 | L1 | 0.8052 | 35.18 | QP | 10.03 | 45.21 | 56.00 | -10.79 |
| 12 | L1 | 0.8052 | 22.76 | AVG | 10.03 | 32.79 | 46.00 | -13.21 |



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| Test Mode: | Transmitting Mode |
|------------|-------------------|
| | _ |



Test Data

Phase Neutral Plot at 240Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|
| NO. | F/L | (MHz) | (dBµV) | Detector | (dB) | (dBµV) | (dBµV) | (dB) |
| 1 | N | 0.1617 | 47.08 | QP | 10.02 | 57.10 | 65.38 | -8.28 |
| 2 | Ζ | 0.1617 | 23.06 | AVG | 10.02 | 33.08 | 55.38 | -22.30 |
| 3 | Ν | 0.3216 | 37.55 | QP | 10.02 | 47.57 | 59.67 | -12.10 |
| 4 | N | 0.3216 | 23.33 | AVG | 10.02 | 33.35 | 49.67 | -16.32 |
| 5 | N | 0.4854 | 33.22 | QP | 10.02 | 43.24 | 56.25 | -13.01 |
| 6 | N | 0.4854 | 22.22 | AVG | 10.02 | 32.24 | 46.25 | -14.01 |
| 7 | Ζ | 0.5946 | 40.03 | QP | 10.02 | 50.05 | 56.00 | -5.95 |
| 8 | Ν | 0.5946 | 23.35 | AVG | 10.02 | 33.37 | 46.00 | -12.63 |
| 9 | Ν | 0.8520 | 34.88 | QP | 10.03 | 44.91 | 56.00 | -11.09 |
| 10 | N | 0.8520 | 19.99 | AVG | 10.03 | 30.02 | 46.00 | -15.98 |
| 11 | N | 1.8387 | 35.01 | QP | 10.04 | 45.05 | 56.00 | -10.95 |
| 12 | N | 1.8387 | 13.87 | AVG | 10.04 | 23.91 | 46.00 | -22.09 |



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6.7 Radiated Spurious Emissions

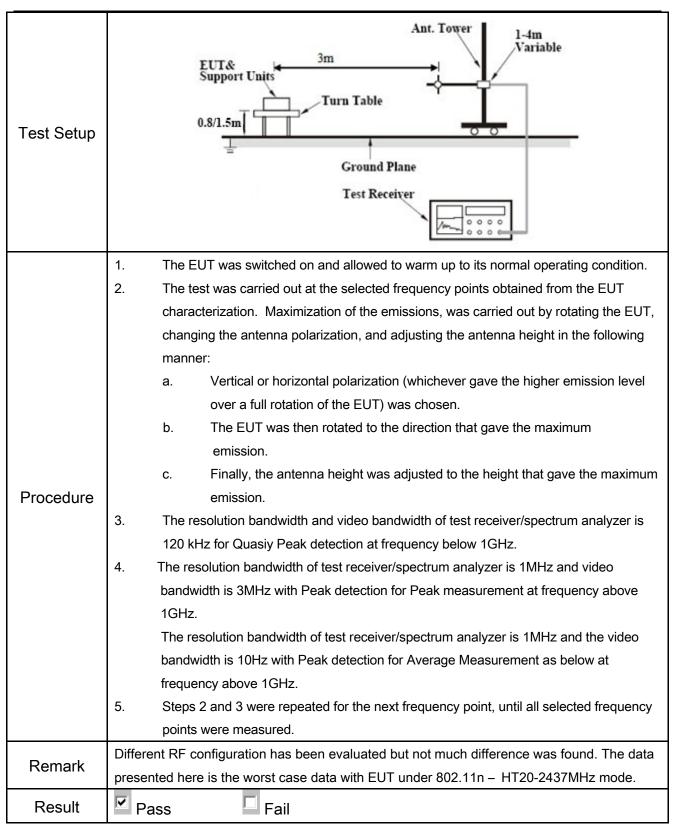
| Temperature | 23°C |
|----------------------|--------------------------------|
| Relative Humidity | 58% |
| Atmospheric Pressure | 1006mbar |
| Test date : | April 06, 2016 &April 26, 2016 |
| Tested By : | Winnie Zhang |

Requirement(s):

| Spec | Item | Requirement | Applicable | |
|------------------|----------|--|---|---|
| · | a) | 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 | \Z | |
| | <u>س</u> | Frequency range (MHz) | Field Strength (µV/m) | |
| | | 30 - 88 | 100 | |
| | | 88 – 216 | 150 | |
| 47CFR§15. | | 216 960 | 200 | |
| 247(d), | | Above 960 | 500 | |
| RSS210 (A8.5) | b) | For non-restricted band, In any 100 frequency band in which the spread modulated intentional radiator is oppower that is produced by the intentional 20 dB or 30dB below that in the 100 band that contains the highest lever determined by the measurement mused. Attenuation below the general is not required | d spectrum or digitally perating, the radio frequency ational radiator shall be at least 0 kHz bandwidth within the desired power, sethod on output power to be | |
| | c) | or restricted band, emission must a | dB down also comply with the radiated | V |
| | () | emission limits specified in 15.209 | | |



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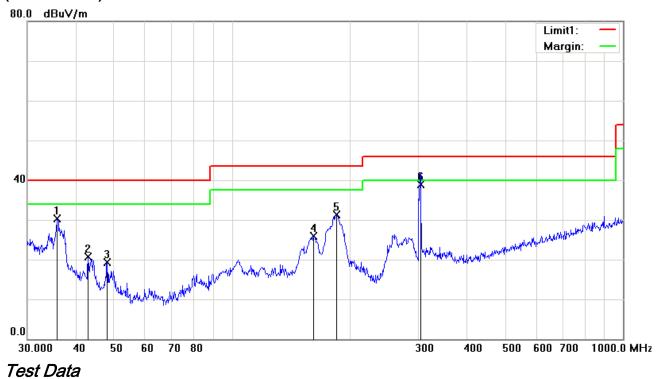
| Test Data | Yes | □ _{N/A} |
|-----------|-----------------|------------------|
| Test Plot | Yes (See below) | □ _{N/A} |



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

(Below 1GHz)



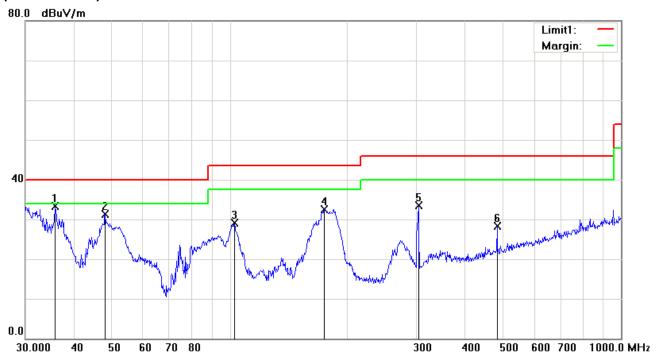
Vertical Polarity Plot @3m

| No | P/L | Frequency | Reading | Detec | Correcte | Result | Limit | Margin | Height | Degree | |
|----|-----|-----------|---------|-------|----------|--------|--------|--------|--------|--------|--|
| | | (MHz) | (dBµV) | tor | d (dB) | (dBµV) | (dBµV) | (dB) | | 3.11 | |
| 1 | Н | 35.7491 | 34.74 | peak | -4.49 | 30.25 | 40.00 | -9.75 | 100 | 199 | |
| 2 | Н | 42.8998 | 30.18 | peak | -9.53 | 20.65 | 40.00 | -19.35 | 100 | 98 | |
| 3 | Н | 47.9940 | 31.61 | peak | -12.28 | 19.33 | 40.00 | -20.67 | 100 | 319 | |
| 4 | Н | 161.4742 | 34.36 | peak | -8.40 | 25.96 | 43.50 | -17.54 | 100 | 180 | |
| 5 | Н | 185.1379 | 40.92 | peak | -9.55 | 31.37 | 43.50 | -12.13 | 100 | 124 | |
| 6 | Н | 303.5437 | 45.69 | QP | -6.80 | 38.89 | 46.00 | -7.11 | 100 | 229 | |



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(Below 1GHz)



Test Data

Horizontal Polarity Plot @3m

| No | P/L | Frequency (MHz) | Reading (dBµV) | Detec tor | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) | Height | Degree |
|----|----------|--------------------|-------------------|--------------|----------------|------------------|-----------------|----------------|--------|--------|
| 1 | V | 35.7491 | 37.72 | peak | -4.49 | 33.23 | 40.00 | -6.77 | 100 | 261 |
| 2 | \ | 47.9940 | 43.60 | peak | -12.28 | 31.32 | 40.00 | -8.68 | 100 | 119 |
| 3 | ٧ | 102.7192 | 39.48 | peak | -10.32 | 29.16 | 43.50 | -14.34 | 100 | 265 |
| 4 | ٧ | 174.4241 | 41.94 | peak | -9.45 | 32.49 | 43.50 | -11.01 | 100 | 0 |
| 5 | V | 303.5437 | 40.33 | peak | -6.80 | 33.53 | 46.00 | -12.47 | 100 | 164 |
| 6 | V | 482.2156 | 30.56 | peak | -2.19 | 28.37 | 46.00 | -17.63 | 100 | 156 |



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Above 1GHz

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

Low Channel (2412 MHz)

| 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 | 38.26 | AV | V | 34 | 6.86 | 31.72 | 47.4 | 54 | -6.60 |
| 4824 | 37.17 | AV | Н | 33.8 | 6.86 | 31.72 | 46.11 | 54 | -7.89 |
| 4824 | 48.35 | PK | V | 34 | 6.86 | 31.72 | 57.49 | 74 | -16.51 |
| 4824 | 46.21 | PK | Н | 33.8 | 6.86 | 31.72 | 55.15 | 74 | -18.85 |
| 17640 | 25.77 | AV | V | 45.15 | 11.61 | 34.54 | 47.99 | 54 | -6.01 |
| 17640 | 25.05 | AV | Н | 45.15 | 11.61 | 34.54 | 47.27 | 54 | -6.73 |
| 17640 | 44.02 | PK | V | 45.15 | 11.61 | 34.54 | 66.24 | 74 | -7.76 |
| 17640 | 45.12 | PK | Н | 45.15 | 11.61 | 34.54 | 67.34 | 74 | -6.66 |

Middle Channel (2437 MHz)

| 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 | 39.04 | AV | V | 33.6 | 6.82 | 31.82 | 47.64 | 54 | -6.36 |
| 4874 | 37.39 | AV | Н | 33.8 | 6.82 | 31.82 | 46.19 | 54 | -7.81 |
| 4874 | 47.27 | PK | V | 33.6 | 6.82 | 31.82 | 55.87 | 74 | -18.13 |
| 4874 | 45.18 | PK | Н | 33.8 | 6.82 | 31.82 | 53.98 | 74 | -20.02 |
| 17748 | 24.35 | AV | V | 45.19 | 11.64 | 34.54 | 46.64 | 54 | -7.36 |
| 17748 | 24.86 | AV | Н | 45.19 | 11.64 | 34.54 | 47.15 | 54 | -6.85 |
| 17748 | 45.69 | PK | V | 45.19 | 11.64 | 34.54 | 67.98 | 74 | -6.02 |
| 17748 | 46.92 | PK | Н | 45.19 | 11.64 | 34.54 | 69.21 | 74 | -4.79 |



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High Channel (2462 MHz)

| 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 | 35.69 | AV | V | 34.6 | 6.76 | 31.92 | 45.13 | 54 | -8.87 |
| 4924 | 36.44 | AV | Η | 34.7 | 6.76 | 31.92 | 45.98 | 54 | -8.02 |
| 4924 | 47.28 | PK | V | 34.6 | 6.76 | 31.92 | 56.72 | 74 | -17.28 |
| 4924 | 46.37 | PK | Н | 34.7 | 6.76 | 31.92 | 55.91 | 74 | -18.09 |
| 17785 | 26.35 | AV | V | 45.22 | 11.68 | 34.54 | 48.71 | 54 | -5.29 |
| 17785 | 25.71 | AV | Н | 45.22 | 11.68 | 34.54 | 48.07 | 54 | -5.93 |
| 17785 | 45.38 | PK | V | 45.22 | 11.68 | 34.54 | 67.74 | 74 | -6.26 |
| 17785 | 44.88 | PK | Н | 45.22 | 11.68 | 34.54 | 67.24 | 74 | -6.76 |

Note:

- 1, The testing has been conformed to 10*2462MHz=24,620MHz 2, All other emissions more than 30 dB below the limit



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Annex A. TEST INSTRUMENT

2015-2016

| Instrument | Model | Serial # | Cal Date | Cal Due | In use |
|---|----------|-------------|------------|------------|-------------|
| AC Line Conducted | | | | | |
| EMI test receiver | ESCS30 | 8471241027 | 09/17/2015 | 09/16/2016 | > |
| Line Impedance | LI-125A | 191106 | 09/25/2015 | 09/24/2016 | V |
| Line Impedance | LI-125A | 191107 | 09/25/2015 | 09/24/2016 | > |
| LISN | ISN T800 | 34373 | 09/25/2015 | 09/24/2016 | > |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 09/24/2015 | 09/23/2016 | V |
| Transient Limiter | LIT-153 | 531118 | 09/01/2015 | 08/31/2016 | V |
| RF conducted test | | | | | |
| Agilent ESA-E SERIES | E4407B | MY45108319 | 09/17/2015 | 09/16/2016 | > |
| Power Splitter | 1# | 1# | 09/01/2015 | 08/31/2016 | V |
| DC Power Supply | E3640A | MY40004013 | 09/17/2015 | 09/16/2016 | ~ |
| Radiated Emissions | | | | | |
| EMI test receiver | ESL6 | 100262 | 09/17/2015 | 09/16/2016 | ~ |
| Positioning Controller | UC3000 | MF780208282 | 11/19/2015 | 11/18/2016 | ~ |
| OPT 010 AMPLIFIER (0.1-1300MHz) | 8447E | 2727A02430 | 09/01/2015 | 08/31/2016 | V |
| Microwave Preamplifier (1 ~ 26.5GHz) | 8449B | 3008A02402 | 03/25/2015 | 03/24/2016 | V |
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/21/2015 | 09/20/2016 | V |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 09/24/2015 | 09/23/2016 | V |
| Universal Radio Communication Tester | CMU200 | 121393 | 09/25/2015 | 09/24/2016 | V |



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2016-2017

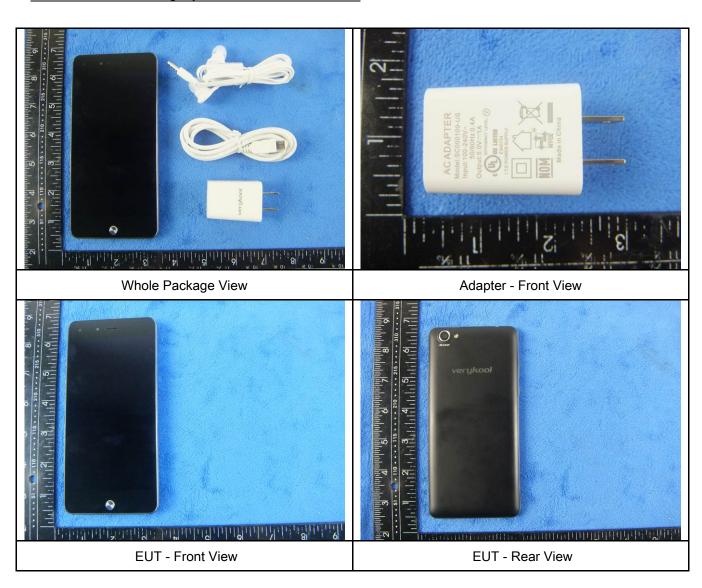
| Instrument | Model | Serial # | Cal Date | Cal Due | In use |
|---|----------|-------------|------------|------------|----------|
| AC Line Conducted | | | | | |
| EMI test receiver | ESCS30 | 8471241027 | 09/17/2015 | 09/16/2016 | ~ |
| Line Impedance | LI-125A | 191106 | 09/25/2015 | 09/24/2016 | ~ |
| Line Impedance | LI-125A | 191107 | 09/25/2015 | 09/24/2016 | ~ |
| LISN | ISN T800 | 34373 | 09/25/2015 | 09/24/2016 | > |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 09/24/2015 | 09/23/2016 | V |
| Transient Limiter | LIT-153 | 531118 | 09/01/2015 | 08/31/2016 | ✓ |
| RF conducted test | | | | | |
| Agilent ESA-E SERIES | E4407B | MY45108319 | 09/17/2015 | 09/16/2016 | ~ |
| Power Splitter | 1# | 1# | 09/01/2015 | 08/31/2016 | ~ |
| DC Power Supply | E3640A | MY40004013 | 09/17/2015 | 09/16/2016 | ~ |
| Radiated Emissions | | | | | |
| EMI test receiver | ESL6 | 100262 | 09/17/2015 | 09/16/2016 | ~ |
| Positioning Controller | UC3000 | MF780208282 | 11/19/2015 | 11/18/2016 | ~ |
| OPT 010 AMPLIFIER (0.1-1300MHz) | 8447E | 2727A02430 | 09/01/2015 | 08/31/2016 | V |
| Microwave Preamplifier (1 ~ 26.5GHz) | 8449B | 3008A02402 | 03/24/2016 | 03/23/2017 | ~ |
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/21/2015 | 09/20/2016 | > |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 09/24/2015 | 09/23/2016 | V |
| Universal Radio Communication Tester | CMU200 | 121393 | 09/25/2015 | 09/24/2016 | V |



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Annex B. EUT and Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





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| 1 | 2 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 |

EUT - Top View

EUT - Bottom View



EUT - Left View



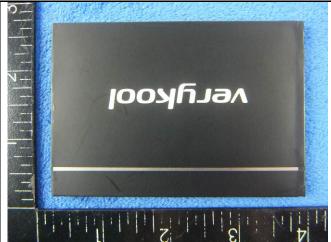
EUT - Right View



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Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View

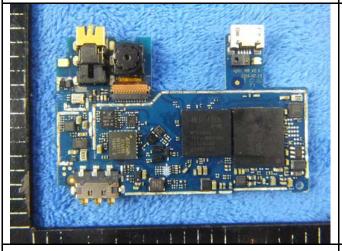




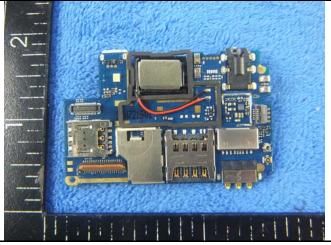




Mainboard with Shielding - Front View



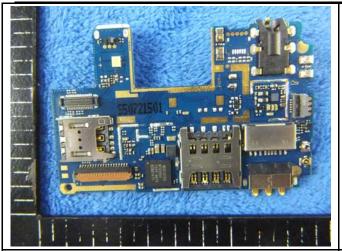
Mainboard without Shielding - Front View



Mainboard with Shielding - Rear View

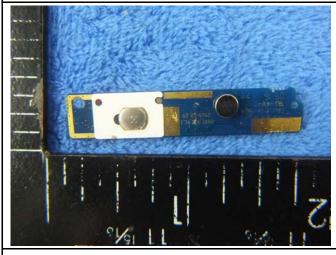


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Mainboard without Shielding - Rear View

Small Mainboard - Front View





Small Mainboard - Front View

LCD - Front View



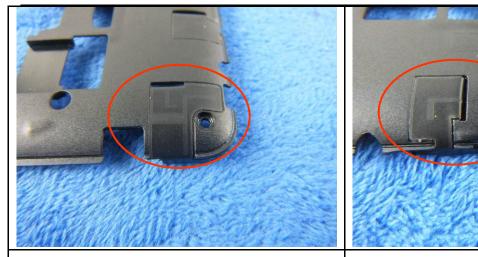


LCD - Rear View

GSM/PCS/UMTS-FDD Antenna View



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WIFI/BT/BLE - Antenna View

GPS - Antenna View



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Annex B.iii. Photograph: Test Setup Photo



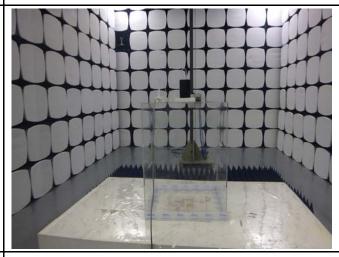
Conducted Emissions Test Setup Front View



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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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 |
|------------------|--------------------------|-------------|-----------|
| Verykool USA Inc | Adapter | SC050100-US | Y11243578 |

Supporting Cable:

| Cable type | Shield Type | Ferrite Core | Length | Serial No |
|------------|--------------|-----------------|--------|-----------|
| USB Cable | Un-shielding | No | 0.8m | Y11243578 |



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Annex D. User Manual / Block Diagram / Schematics / Partlist

N/A



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Annex E. DECLARATION OF SIMILARITY



Declaration Letter

For our business issue and marketing requirement, we would like to make some change on this model, details as following:

Model No.: s5530 and s5030

We Verykool USA Inc, hereby declare that our product s5530 and s5030, they are using the same PCB and the difference between them are listed as below:

| Main Model No. | Series Model No. | Difference |
|----------------|------------------|--|
| s5030 | N/A | For s5530, LCD size is 5.5inch, rear camera is 8MP,battery is 2500mAh, While s5030 LCD is 5inch, rear camera is 5MP, battery is 2200mAh. the original product s5030 was tested by Siemic, project number is 16070105 |

Thank you!

Sincerely

Signature:

Job Title:

PH Director