RF TEST REPORT



Report No.: 16071314-FCC-R4-V1

Supersede Report No.: N/A

| Applicant | Verykool USA Inc | | | |
|---|---|-----------------------------|-----|--|
| Product Name | Mobile Phone | | | |
| Model No. | SL5560 | | | |
| Serial No. | N/A | | | |
| Test Standard | FCC Part 1 | 5.247: 2015, ANSI C63.10: 2 | 013 | |
| Test Date | November | November 16 to 24, 2016 | | |
| Issue Date | December 14, 2016 | | | |
| Test Result | Pass Fail | | | |
| Equipment complied with the specification | | | | |
| Equipment did no | Equipment did not comply with the specification | | | |
| Loven | Luo | David Huang | | |
| Loren Luo Test Engineer | | David Huang Checked By | | |

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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 |
|--------------------|----------------|--------------------------|-------------------|
| 16071314-FCC-R4 | NONE | Original | November 25, 2016 |
| 46074244 FCC D4 V4 | V1 | Updated the RF Operating | December 14, 2016 |
| 16071314-FCC-R4-V1 | | frequency | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| Applicant Name | Verykool USA Inc | |
|------------------|--|--|
| Applicant Add | 3636 Nobel Drive, Suite 325, San Diego, California 92122 United States | |
| Manufacturer | VIKIN COMMUNICATION TECHNOLOGY CO.,LTD | |
| Manufacturer Add | Room 1005, HSAE Technology Building, Hi-Tech Park, Nanshan District, | |
| | Shenzhen | |

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: SL5560

Serial Model: N/A

Date EUT received: November 15, 2016

Test Date(s): November 16 to 24, 2016

Equipment Category : DTS

Antenna Gain:

GSM850: -1.25dBi

PCS1900: 1dBi

UMTS-FDD Band V: -1.18dBi UMTS-FDD Band IV: 0.45dBi UMTS-FDD Band II: 1.19dBi

LTE Band II: 1.17dBi

LTE Band IV: 0.6dBi

LTE Band VI: -0.65dBi LTE Band VII: -0.72dBi

LTE Band XII: -1.3dBi LTE Band XVII: -1.42dBi Bluetooth/BLE: 0.58dBi

WIFI: 0.6dBi GPS: 0.71dBi

Antenna Type: PIFA antenna

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

Type of Modulation: LTE Band: QPSK, 16QAM

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK



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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;

RX: 2112.4 ~ 2152.6 MHz

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

RX: 1932.4 ~ 1987.6 MHz

LTE Band II TX: 1850.7 ~ 1909.3MHz; RX : 1930.7 ~ 1989.3 MHz

RF Operating Frequency (ies): LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX: 2110.7~ 2154.3 MHz

LTE Band V TX: 824.7~ 848.3 MHz; RX: 869.7 ~ 893.3MHz

LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz

LTE Band XII TX:699.7 ~ 715.3 MHz; RX : 729.7~ 745.3MHz LTE Band XVII TX: 706.5 ~ 713.5 MHz; RX : 736.5 ~ 743.5 MHz

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

Max. Output Power: -5.188dBm

Number of Channels:

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: USB Port, Earphone Port

Trade Name : Verykool



Input Power:

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Adapter:

Model: TPA-46050150UU

Input: AC100-240V~50/60Hz,0.3A

Output: DC 5.0V,1500mA

Battery:

Model: K456

Spec: 3.8V,3000mAh(11.4Wh) Limited charger voltage: 4.35V

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

FCC ID: WA6SL5560



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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) 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 | Compliance |
| | Frequency Bands | |
| §15.207 (a), | AC Power Line Conducted Emissions Compliance | |
| §15.205, §15.209, | 15.205, §15.209, Radiated Spurious Emissions & Unwanted Emissions | |
| §15.247(d) | into Restricted Frequency Bands | Compliance |

Measurement Uncertainty

| Emissions | | |
|---|---|---------------|
| Test Item | 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/GPS, the gain is 0.58dBi for Bluetooth/BLE, the gain is 0.6dBi for WIFI, the gain is 0.71dBi for GPS.

A permanently attached PIFA antenna for GSM/PCS/UMTS, the gain is -1.25dBi for GSM850, 1dBi for PCS1900, -1.18dBi for UMTS-FDD Band V, 0.45dBi for UMTS-FDD Band IV, 1.19dBi for UMTS-FDD Band II. A permanently attached PIFA antenna for LTE Band II/ IV/V/VII/XII/XVII, the gain is 1.17dBi for LTE Band II, the gain is 0.6dBi for LTE Band IV, the gain is -0.65dBi for LTE Band V, the gain is -0.72dBi for LTE Band VII, the gain is -1.3dBi for LTE XII, the gain is -1.42dBi for LTE Band XVII.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB) Channel Bandwidth

| Temperature | 25°C |
|----------------------|-------------------|
| Relative Humidity | 58% |
| Atmospheric Pressure | 1016mbar |
| Test date : | November 16, 2016 |
| Tested By : | Loren Luo |

| Spec | Item Requirement Application | | Applicable |
|----------------|--|---|------------|
| § 15.247(a)(2) | a) | 6dB BW≥ 500kHz; | V |
| RSS Gen(4.6.1) | b) | 99% BW: For FCC reference only; required by IC. | V |
| Test Setup | Spectrum Analyzer EUT | | |
| Test Procedure | Spectrum Analyzer EUT 558074 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth 6dB Emission bandwidth measurement procedure - Set RBW = 100 kHz. - Set the video bandwidth (VBW) ≥ 3 RBW. - Detector = Peak. - Trace mode = max hold. - Sweep = auto couple. - Allow the trace to stabilize. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. | | |
| Remark | | | |
| Result | Pass □ Fail | | |

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



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6dB Bandwidth measurement result

Test Data

| СН | Frequency (MHz) | 6dB Bandwidth (kHz) | 99% Occupied Bandwidth (MHz) |
|------|-----------------|---------------------|------------------------------|
| Low | 2402 | 687.7 | 1.0268 |
| Mid | 2440 | 685.7 | 1.0267 |
| High | 2480 | 693.4 | 1.0258 |

Test Plots





6dB Bandwidth - Low CH 2402

6dB Bandwidth - Mid CH 2440





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6.3 Maximum Output Power

| Temperature | 25°C |
|----------------------|-------------------|
| Relative Humidity | 58% |
| Atmospheric Pressure | 1016mbar |
| Test date : | November 16, 2016 |
| Tested By : | Loren Luo |

Requirement(s):

| Spec | Item | Requirement | Applicable | | |
|-------------------|--|---|------------|--|--|
| | 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 | | | |
| (3),RSS210 | | Watt. | | | |
| (A8.4) | d) | FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt | | | |
| (* 101 1) | e) | FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25 | | | |
| | | Watt | | | |
| | f) | DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt | ~ | | |
| Test Setup | | | | | |
| | | Spectrum Analyzer EUT | | | |
| | 558074 | D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power meth | od | | |
| | Maximum output power measurement procedure | | | | |
| | Maximu | m output power measurement procedure | | | |
| | | ne RBW ≥ DTS bandwidth. | | | |
| | a) Set th | · | | | |
| Test | a) Set th b) Set V | ne RBW ≥ DTS bandwidth. | | | |
| Test Procedure | a) Set th b) Set V c) Set sp | ne RBW ≥ DTS bandwidth. | | | |
| | a) Set th b) Set V c) Set sp d) Swee | ne RBW ≥ DTS bandwidth. BW ≥ 3 × RBW. pan ≥ 3 x RBW | | | |
| | a) Set th b) Set V c) Set sp d) Swee e) Detect | ne RBW ≥ DTS bandwidth. BW ≥ 3 × RBW. pan ≥ 3 x RBW ptime = auto couple. | | | |
| | a) Set th b) Set V c) Set sp d) Swee e) Detect f) Trace | ne RBW ≥ DTS bandwidth. BW ≥ 3 × RBW. pan ≥ 3 x RBW pp time = auto couple. ctor = peak. | | | |
| | a) Set the b) Set V c) Set specifical displayed by Sweet e) Detection of the control of the cont | ne RBW ≥ DTS bandwidth. BW ≥ 3 × RBW. pan ≥ 3 x RBW protime = auto couple. ctor = peak. mode = max hold. | | | |
| | a) Set the b) Set V c) Set specifical displayed by Sweet e) Detection of the control of the cont | ne RBW ≥ DTS bandwidth. /BW ≥ 3 × RBW. pan ≥ 3 x RBW rp time = auto couple. ctor = peak. mode = max hold. trace to fully stabilize. | | | |



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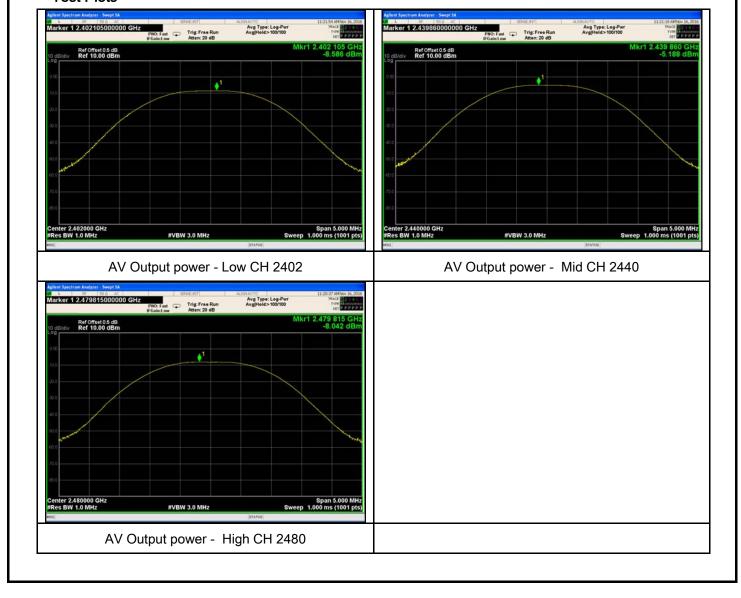
| Test Data | Yes | □ _{N/A} |
|-----------|-----------------|------------------|
| Test Plot | Yes (See below) | □ _{N/A} |

Output Power measurement result

Test Data

| Туре | СН | Frequency (MHz) | Conducted Power (dBm) | Limit (dBm) | Result |
|--------|------|--------------------|-----------------------|----------------|--------|
| Output | Low | 2402 | -8.586 | 30 | Pass |
| Output | Mid | 2440 | -5.188 | 30 | Pass |
| power | High | 2480 | -8.042 | 30 | Pass |

Test Plots





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6.4 Power Spectral Density

| Temperature | 25°C |
|----------------------|-------------------|
| Relative Humidity | 58% |
| Atmospheric Pressure | 1016mbar |
| Test date : | November 16, 2016 |
| 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 | | D01 DTS MEAS Guidance v03r03, 10.2 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 amplitue the RBW. j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) | de level within | | |
| Remark | | | | | |
| Result | Pas | ss Fail | | | |

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



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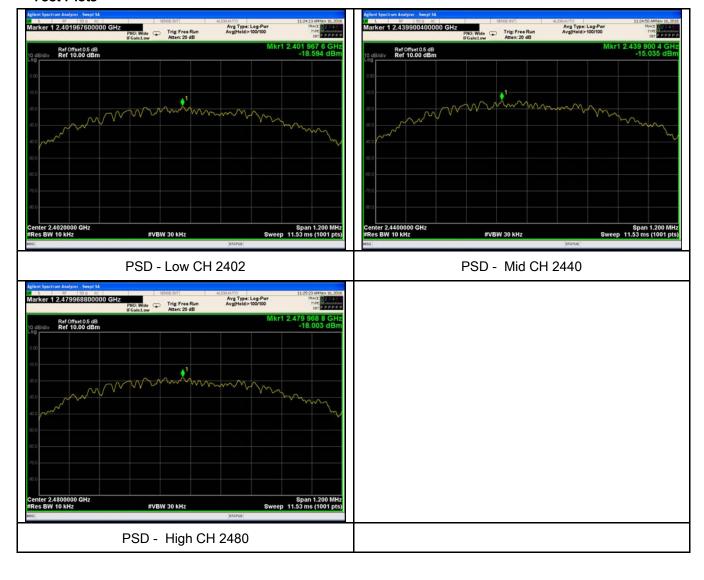
Power Spectral Density measurement result

Test Data

| Туре | СН | Freq (MHz) | Reading (dBm) | Factor (dB) | Result (dBm) | Limit (dBm) | Result |
|------|------|---------------|---------------|----------------|-----------------|----------------|--------|
| | Low | 2402 | -18.594 | -5.23 | -23.824 | 8 | Pass |
| PSD | Mid | 2440 | -15.035 | -5.23 | -20.265 | 8 | Pass |
| | High | 2480 | -18.003 | -5.23 | -23.233 | 8 | Pass |

Note: factor=10log(3/10)=-5.23

Test Plots





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6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

| Temperature | 22°C | | |
|----------------------|-------------------|--|--|
| Relative Humidity | 54% | | |
| Atmospheric Pressure | 1021mbar | | |
| Test date : | November 21, 2016 | | |
| Tested By : | Loren Luo | | |

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 Turn Table 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. | | | | | |



Yes (See below)

Test Plot

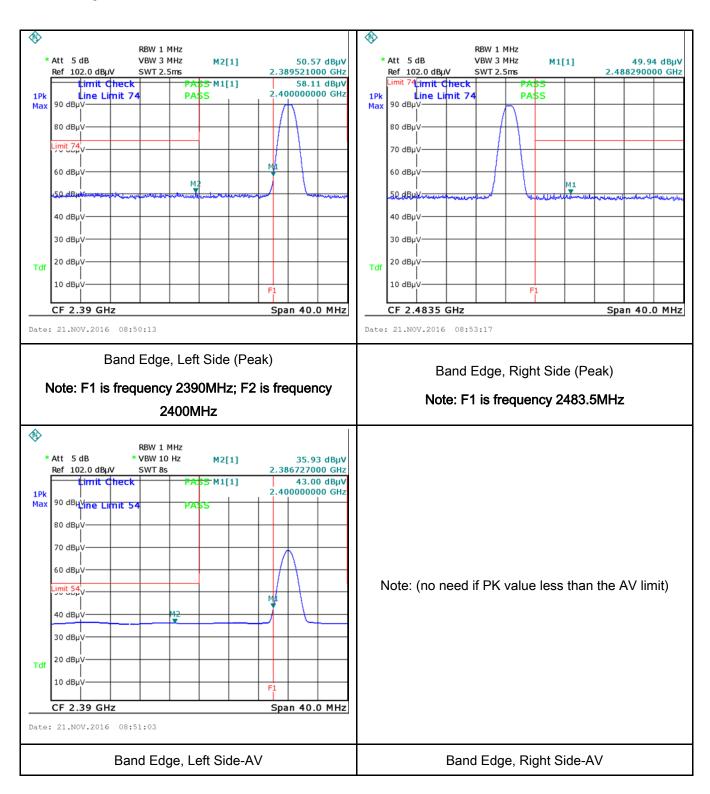
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| | - 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a | | | | |
|-----------|--|--|--|--|--|
| | convenient frequency span including 100kHz bandwidth from band edge, check | | | | |
| | the emission of EUT, if pass then set Spectrum 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 | es N/A | | | | |



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Test Plots Band Edge measurement result





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6.6 AC Power Line Conducted Emissions

| Temperature | 25°C | | |
|----------------------|-------------------|--|--|
| Relative Humidity | 57% | | |
| Atmospheric Pressure | 1024mbar | | |
| Test date : | November 24, 2016 | | |
| Tested By: | Loren Luo | | |

Requirement(s):

| Spec | Item | Requirement Applicable | | | | | | |
|---------------------------------------|---|--|----|----|----------|--|--|--|
| 47CFR§15. 207, RSS210 (A8.1) | a) | For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges. Frequency ranges Limit (dB μ V) (MHz) QP Average 0.15 ~ 0.5 66 - 56 56 - 46 | | | V | | | |
| | | 0.5 ~ 5 | 56 | 46 | | | | |
| | | 5 ~ 30 60 50 | | | | | | |
| Test Setup | Vertical Ground Reference Plane Boom 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
✓ Yes (See below)
✓ N/A

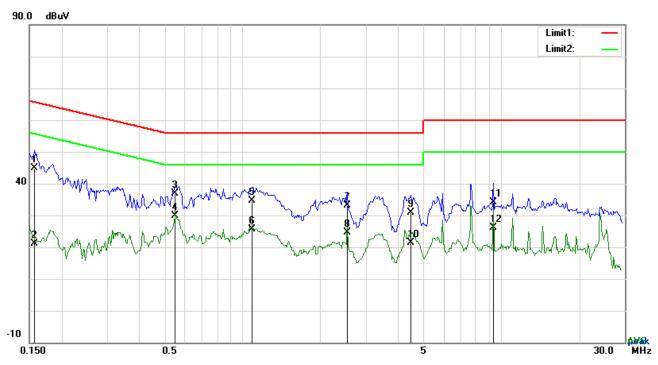
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| | coaxial cable. | | | | |
|-----------|---|--|--|--|--|
| | 4. All other supporting equipment were powered separately from another main supply. | | | | |
| | 5. The EUT was switched on and allowed to warm up to its normal operating condition. | | | | |
| | 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 | Ves N/A | | | | |



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Test Mode: Transmitting Mode



Test Data

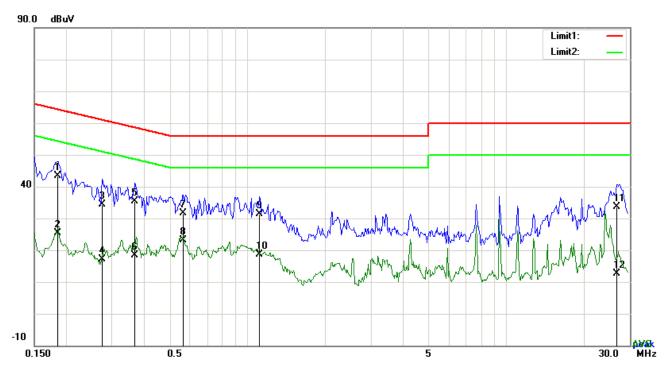
Phase Line Plot at 120Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|----------------|------------------|-----------------|----------------|
| 1 | L1 | 0.1578 | 31.81 | QP | 13.17 | 44.98 | 65.58 | -20.60 |
| 2 | L1 | 0.1578 | 8.01 | AVG | 13.17 | 21.18 | 55.58 | -34.40 |
| 3 | L1 | 0.5517 | 25.04 | QP | 11.85 | 36.89 | 56.00 | -19.11 |
| 4 | L1 | 0.5517 | 18.09 | AVG | 11.85 | 29.94 | 46.00 | -16.06 |
| 5 | L1 | 1.0899 | 23.29 | QP | 11.40 | 34.69 | 56.00 | -21.31 |
| 6 | L1 | 1.0899 | 14.27 | AVG | 11.40 | 25.67 | 46.00 | -20.33 |
| 7 | L1 | 2.5485 | 21.67 | QP | 11.40 | 33.07 | 56.00 | -22.93 |
| 8 | L1 | 2.5485 | 13.26 | AVG | 11.40 | 24.66 | 46.00 | -21.34 |
| 9 | L1 | 4.4898 | 19.37 | QP | 11.40 | 30.77 | 56.00 | -25.23 |
| 10 | L1 | 4.4898 | 9.86 | AVG | 11.40 | 21.26 | 46.00 | -24.74 |
| 11 | L1 | 9.3453 | 21.24 | QP | 12.96 | 34.20 | 60.00 | -25.80 |
| 12 | L1 | 9.3453 | 13.29 | AVG | 12.96 | 26.25 | 50.00 | -23.75 |



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



Test Data

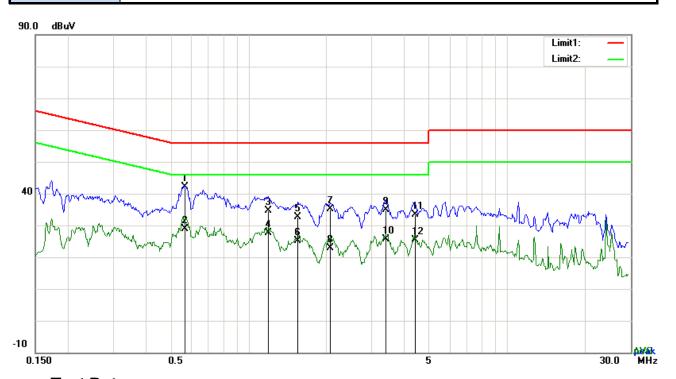
Phase Neutral Plot at 120Vac, 60Hz

| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
|-----|-----|--------------------|-------------------|----------|----------------|------------------|-----------------|----------------|
| 1 | N | 0.1851 | 30.41 | QP | 13.07 | 43.48 | 64.25 | -20.77 |
| 2 | Ν | 0.1851 | 12.29 | AVG | 13.07 | 25.36 | 54.25 | -28.89 |
| 3 | Ν | 0.2748 | 21.67 | QP | 12.74 | 34.41 | 60.97 | -26.56 |
| 4 | N | 0.2748 | 4.28 | AVG | 12.74 | 17.02 | 50.97 | -33.95 |
| 5 | N | 0.3684 | 23.11 | QP | 12.39 | 35.50 | 58.54 | -23.04 |
| 6 | N | 0.3684 | 6.08 | AVG | 12.39 | 18.47 | 48.54 | -30.07 |
| 7 | N | 0.5641 | 19.78 | QP | 11.84 | 31.62 | 56.00 | -24.38 |
| 8 | Ν | 0.5641 | 11.25 | AVG | 11.84 | 23.09 | 46.00 | -22.91 |
| 9 | Ν | 1.1172 | 20.03 | QP | 11.41 | 31.44 | 56.00 | -24.56 |
| 10 | N | 1.1172 | 7.29 | AVG | 11.41 | 18.70 | 46.00 | -27.30 |
| 11 | N | 26.7471 | 15.89 | QP | 17.66 | 33.55 | 60.00 | -26.45 |
| 12 | N | 26.7471 | -5.00 | AVG | 17.66 | 12.66 | 50.00 | -37.34 |



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



Test Data

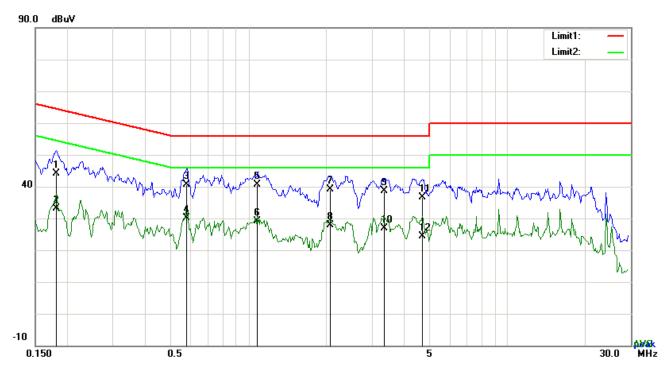
Phase Line Plot at 240Vac, 60Hz

| | • | | | | | | | |
|-----|-----|--------------------|-------------------|----------|----------------|------------------|-----------------|----------------|
| No. | P/L | Frequency (MHz) | Reading (dBµV) | Detector | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) |
| 1 | L1 | 0.5673 | 30.20 | QP | 11.83 | 42.03 | 56.00 | -13.97 |
| 2 | L1 | 0.5673 | 17.11 | AVG | 11.83 | 28.94 | 46.00 | -17.06 |
| 3 | L1 | 1.1907 | 23.20 | QP | 11.40 | 34.60 | 56.00 | -21.40 |
| 4 | L1 | 1.1907 | 16.32 | AVG | 11.40 | 27.72 | 46.00 | -18.28 |
| 5 | L1 | 1.5501 | 21.11 | QP | 11.40 | 32.51 | 56.00 | -23.49 |
| 6 | L1 | 1.5501 | 13.63 | AVG | 11.40 | 25.03 | 46.00 | -20.97 |
| 7 | L1 | 2.0659 | 23.74 | QP | 11.40 | 35.14 | 56.00 | -20.86 |
| 8 | L1 | 2.0659 | 11.39 | AVG | 11.40 | 22.79 | 46.00 | -23.21 |
| 9 | L1 | 3.3861 | 23.37 | QP | 11.40 | 34.77 | 56.00 | -21.23 |
| 10 | L1 | 3.3861 | 14.29 | AVG | 11.40 | 25.69 | 46.00 | -20.31 |
| 11 | L1 | 4.4071 | 22.05 | QP | 11.40 | 33.45 | 56.00 | -22.55 |
| 12 | L1 | 4.4071 | 13.96 | AVG | 11.40 | 25.36 | 46.00 | -20.64 |



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



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 | 0.1812 | 31.07 | QP | 13.08 | 44.15 | 64.43 | -20.28 |
| 2 | N | 0.1812 | 20.04 | AVG | 13.08 | 33.12 | 54.43 | -21.31 |
| 3 | N | 0.5790 | 28.91 | QP | 11.82 | 40.73 | 56.00 | -15.27 |
| 4 | N | 0.5790 | 18.39 | AVG | 11.82 | 30.21 | 46.00 | -15.79 |
| 5 | N | 1.0860 | 29.22 | QP | 11.41 | 40.63 | 56.00 | -15.37 |
| 6 | N | 1.0860 | 17.79 | AVG | 11.41 | 29.20 | 46.00 | -16.80 |
| 7 | N | 2.0688 | 27.56 | QP | 11.53 | 39.09 | 56.00 | -16.91 |
| 8 | N | 2.0688 | 16.45 | AVG | 11.53 | 27.98 | 46.00 | -18.02 |
| 9 | N | 3.3458 | 27.06 | QP | 11.69 | 38.75 | 56.00 | -17.25 |
| 10 | N | 3.3458 | 15.16 | AVG | 11.69 | 26.85 | 46.00 | -19.15 |
| 11 | N | 4.7082 | 24.74 | QP | 11.86 | 36.60 | 56.00 | -19.40 |
| 12 | N | 4.7082 | 12.62 | AVG | 11.86 | 24.48 | 46.00 | -21.52 |



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6.7 Radiated Spurious Emissions & Restricted Band

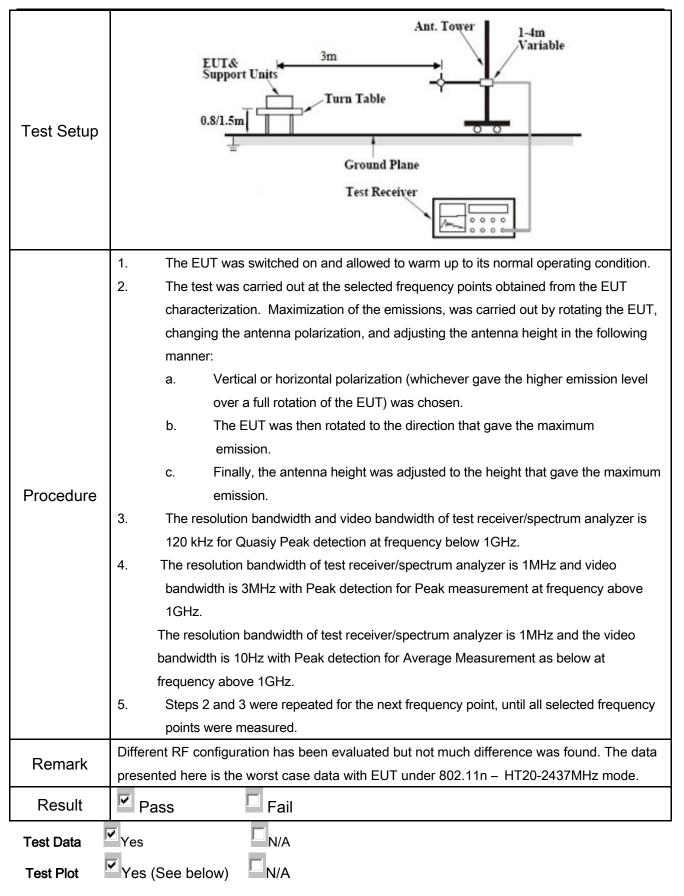
| Temperature | 25°C |
|----------------------|-------------------|
| Relative Humidity | 57% |
| Atmospheric Pressure | 1024mbar |
| Test date : | November 24, 2016 |
| Tested By : | Loren Luo |

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 | Y | | |
| | | 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 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 or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required | | \ | |
| | c) | or restricted band, emission must a emission limits specified in 15.209 | also comply with the radiated | V | |



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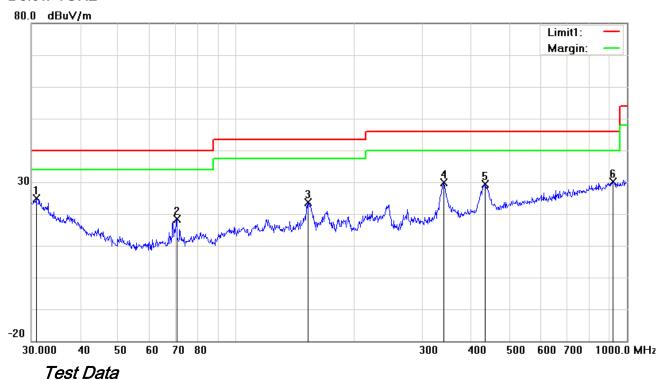




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Test Mode: Transmitting Mode

Below 1GHz



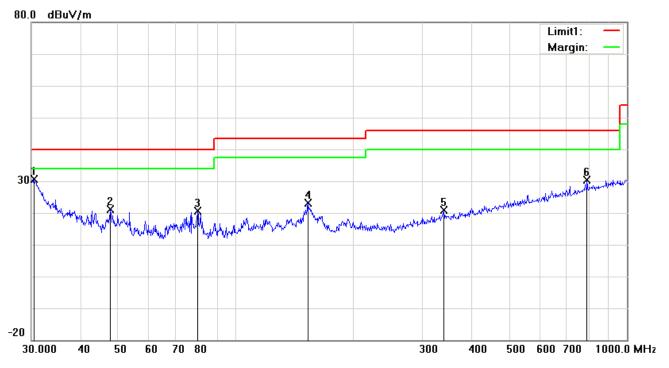
Vertical Polarity Plot @3m

| No | P/L | Frequency (MHz) | Reading (dBµV) | Detec tor | Corrected (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) | Height | Degree |
|----|-----|--------------------|-------------------|--------------|----------------|------------------|-----------------|----------------|--------|--------|
| 1 | Н | 30.8535 | 25.81 | peak | -0.89 | 24.92 | 40.00 | -15.08 | 100 | 315 |
| 2 | Н | 70.5836 | 31.87 | peak | -13.61 | 18.26 | 40.00 | -21.74 | 100 | 142 |
| 3 | Н | 153.2004 | 32.01 | peak | -8.36 | 23.65 | 43.50 | -19.85 | 100 | 37 |
| 4 | Н | 340.7817 | 35.49 | peak | -5.73 | 29.76 | 46.00 | -16.24 | 100 | 61 |
| 5 | Н | 434.0651 | 32.85 | peak | -3.47 | 29.38 | 46.00 | -16.62 | 100 | 248 |
| 6 | Н | 922.5157 | 25.36 | peak | 4.89 | 30.25 | 46.00 | -15.75 | 100 | 49 |



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Below 1GHz



Test Data

Horizontal Polarity Plot @3m

| No | P/L | Frequency (MHz) | Reading (dBµV) | Dete ctor | Correcte d (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) | Height | Degree |
|----|-----|--------------------|-------------------|--------------|--------------------|------------------|-----------------|----------------|--------|--------|
| 1 | ٧ | 30.4238 | 31.26 | peak | -0.58 | 30.68 | 40.00 | -9.32 | 100 | 93 |
| 2 | ٧ | 47.8260 | 33.44 | peak | -12.20 | 21.24 | 40.00 | -18.76 | 100 | 264 |
| 3 | V | 79.8003 | 34.28 | peak | -13.77 | 20.51 | 40.00 | -19.49 | 100 | 21 |
| 4 | V | 152.6641 | 31.62 | peak | -8.37 | 23.25 | 43.50 | -20.25 | 100 | 85 |
| 5 | V | 340.7817 | 26.62 | peak | -5.73 | 20.89 | 46.00 | -25.11 | 100 | 52 |
| 6 | ٧ | 790.6188 | 27.29 | peak | 3.06 | 30.35 | 46.00 | -15.65 | 100 | 117 |



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Above 1GHz

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

Low Channel (2402 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) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|------------------------------|---------------------------|-------------------|----------------|
| 4804 | 38.16 | AV | V | 33.83 | 6.86 | 31.72 | 47.13 | 54 | -6.87 |
| 4804 | 37.74 | AV | Н | 33.83 | 6.86 | 31.72 | 46.71 | 54 | -7.29 |
| 4804 | 48.07 | PK | V | 33.83 | 6.86 | 31.72 | 57.04 | 74 | -16.96 |
| 4804 | 47.62 | PK | Н | 33.83 | 6.86 | 31.72 | 56.59 | 74 | -17.41 |
| 17786 | 24.31 | AV | V | 45.03 | 11.21 | 32.38 | 48.17 | 54 | -5.83 |
| 17786 | 24.18 | AV | Н | 45.03 | 11.21 | 32.38 | 48.04 | 54 | -5.96 |
| 17786 | 40.58 | PK | V | 45.03 | 11.21 | 32.38 | 64.44 | 74 | -9.56 |
| 17786 | 40.27 | PK | Н | 45.03 | 11.21 | 32.38 | 64.13 | 74 | -9.87 |

Middle Channel (2440 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) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|------------------------------|---------------------------|-------------------|----------------|
| 4880 | 38.57 | AV | V | 33.86 | 6.82 | 31.82 | 47.43 | 54 | -6.57 |
| 4880 | 38.06 | AV | Н | 33.86 | 6.82 | 31.82 | 46.92 | 54 | -7.08 |
| 4880 | 48.64 | PK | V | 33.86 | 6.82 | 31.82 | 57.5 | 74 | -16.50 |
| 4880 | 48.23 | PK | Н | 33.86 | 6.82 | 31.82 | 57.09 | 74 | -16.91 |
| 17804 | 23.95 | AV | V | 45.15 | 11.18 | 32.41 | 47.87 | 54 | -6.13 |
| 17804 | 23.76 | AV | Н | 45.15 | 11.18 | 32.41 | 47.68 | 54 | -6.32 |
| 17804 | 41.28 | PK | V | 45.15 | 11.18 | 32.41 | 65.2 | 74 | -8.80 |
| 17804 | 40.89 | PK | Н | 45.15 | 11.18 | 32.41 | 64.81 | 74 | -9.19 |



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High Channel (2480 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) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|------------------------------|---------------------------|-------------------|----------------|
| 4960 | 37.82 | AV | V | 33.9 | 6.76 | 31.92 | 46.56 | 54 | -7.44 |
| 4960 | 37.65 | AV | Η | 33.9 | 6.76 | 31.92 | 46.39 | 54 | -7.61 |
| 4960 | 47.69 | PK | V | 33.9 | 6.76 | 31.92 | 56.43 | 74 | -17.57 |
| 4960 | 47.43 | PK | Η | 33.9 | 6.76 | 31.92 | 56.17 | 74 | -17.83 |
| 17792 | 24.38 | AV | V | 45.22 | 11.35 | 32.38 | 48.57 | 54 | -5.43 |
| 17792 | 24.16 | AV | Н | 45.22 | 11.35 | 32.38 | 48.35 | 54 | -5.65 |
| 17792 | 40.75 | PK | V | 45.22 | 11.35 | 32.38 | 64.94 | 74 | -9.06 |
| 17792 | 40.51 | PK | Н | 45.22 | 11.35 | 32.38 | 64.7 | 74 | -9.30 |

Note:

- 1, The testing has been conformed to 10*2480MHz=24,800MHz 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 | al Date Cal Due | |
|---|-------------------|----------------|-----------------------|-----------------|---|
| AC Line Conducted | | | | | |
| EMI test receiver | ESCS30 8471241027 | | 09/16/2016 | 09/15/2017 | ~ |
| Line Impedance | LI-125A 191106 | | 09/24/2016 | 09/23/2017 | ~ |
| Line Impedance | LI-125A | 191107 | 09/24/2016 | 09/23/2017 | ~ |
| LISN | ISN T800 | 34373 | 09/24/2016 09/23/2017 | | ~ |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | | | 09/22/2017 | V |
| Transient Limiter | LIT-153 | LIT-153 531118 | | 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 | V |
| OPT 010 AMPLIFIER (0.1-1300MHz) | 8447E | 2727A02430 | 08/31/2016 | 08/30/2017 | ✓ |
| Microwave Preamplifier (1 ~ 26.5GHz) | 8449B | 3008A02402 | 03/24/2016 | 03/23/2017 | V |
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/20/2016 | 09/19/2017 | V |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 09/23/2016 | 09/22/2017 | V |
| Universal Radio Communication Tester | CMU200 | 121393 | 09/24/2016 | 09/23/2017 | V |



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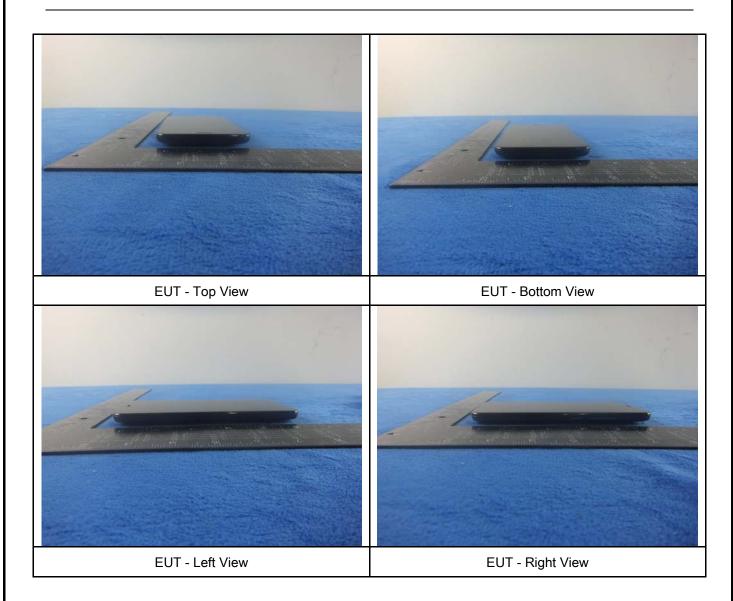
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





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Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 1



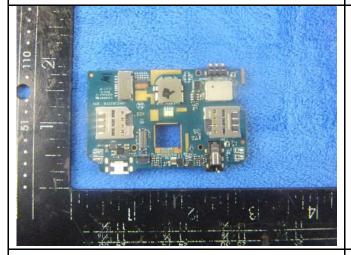
Cover Off - Top View 2



Battery - Front View



Battery - Rear View



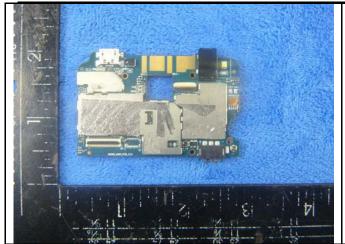
Mainboard with Shielding - Front View



Mainboard without Shielding - Front View



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Mainboard with Shielding - Rear View



Mainboard without Shielding - Rear View



LCD - Front View



LCD - Rear View



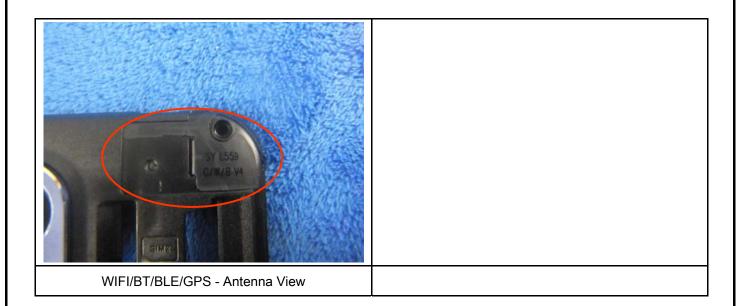
GSM/PCS/UMTS-FDD Antenna View



LTE - Antenna View



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Annex B.iii. Photograph: Test Setup Photo



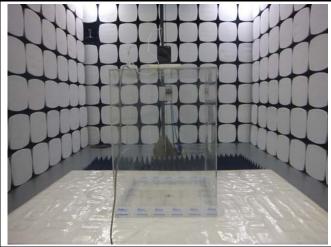
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

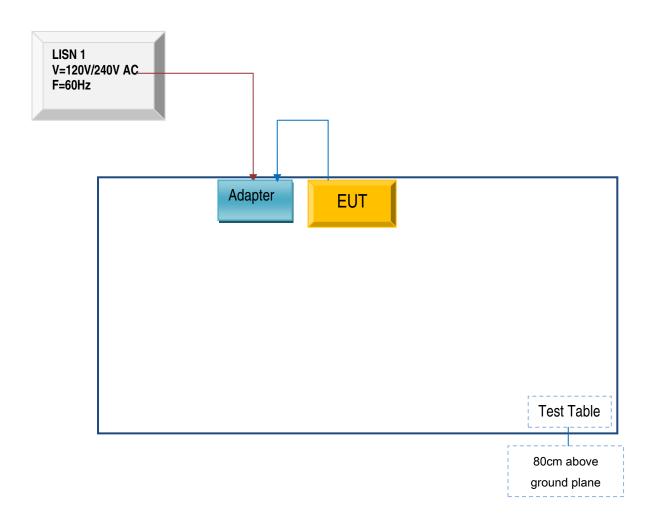


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

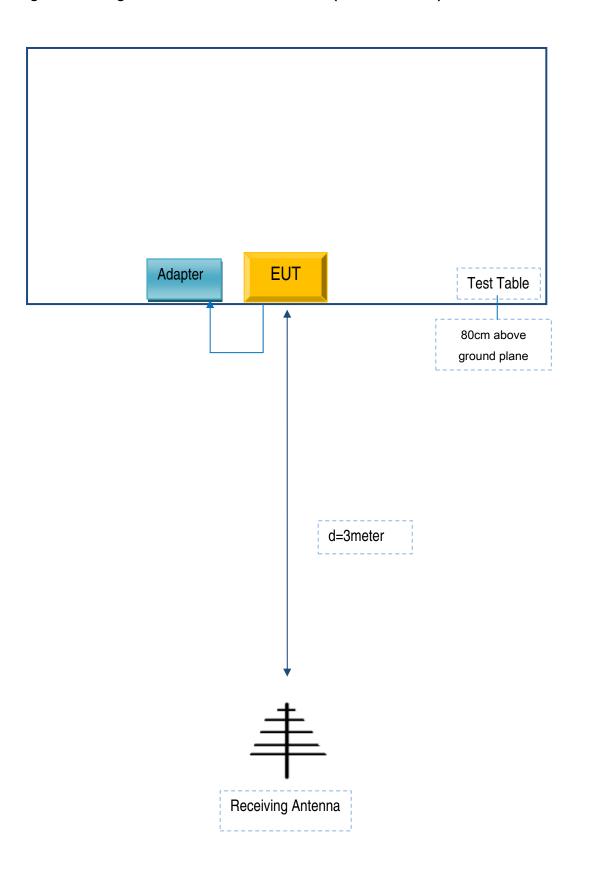
Block Configuration Diagram for AC Line Conducted Emissions





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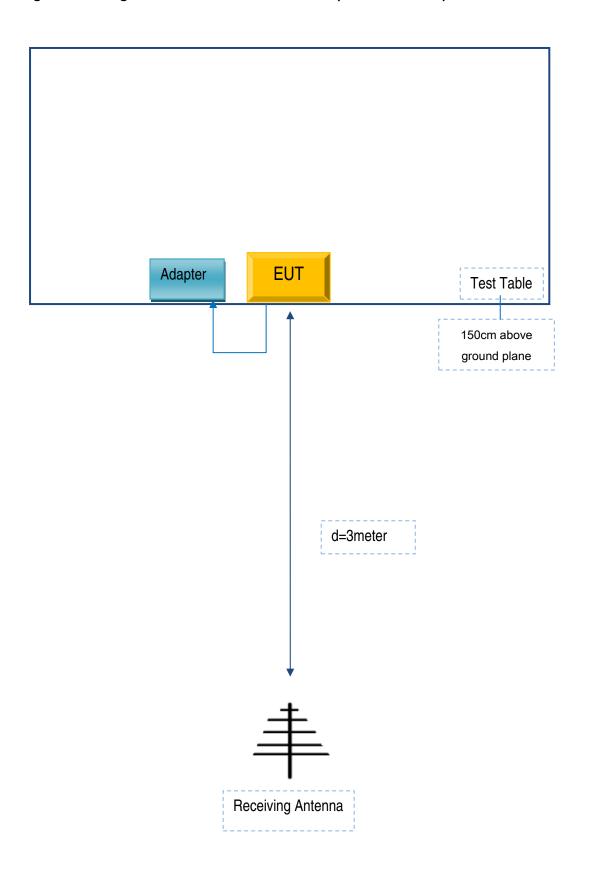
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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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 | TPA-46050150UU | S05432D3 |

Supporting Cable:

| Cable type | Shield Type | Ferrite Core | Length | Serial No |
|------------|--------------|-----------------|--------|-----------|
| USB Cable | Un-shielding | No | 0.8m | S05432D3 |



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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