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FCC Test Report

Part 15 subpart C

Client Information:

Applicant: Proexpress Distributor LLC

Applicant add.: 11011 GREENWOOD AVE.N APT 5,SEATTLE,WA 98103

Product Information:

EUT Name: Tablet PC

Model No.: I10X , I10X HYBRID, I10X PRO, I10X PLUS, V100X, W100X, V100X

HYBRID, V100 HYBRID (Details refer to page 7)

Brand Name: Dragon Touch, KINGPAD, KINGSLIM, AKASO

FCC ID: S5V-D100X1

Standards: FCC PART 15 Subpart C: 2015 section 15.247

Test procedure used: ANSI C63.4-2009

Prepared By:

Dongguan Yaxu (AiT) Technology Limited

Add.: No.22, Jinqianling Third Street, Jitigang, Huangjiang,

Dongguan, Guangdong, China

Date of Receipt: Dec. 02, 2015 Date of Test: Dec. 02~Dec. 10, 2015

Date of Issue: Dec. 11, 2015 Test Result: Pass

This device described above has been tested by Dongguan Yaxu(AiT) Technology Limited, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

*This test report must not be used by the client to claim product endorsement by any agency of the U.S. government.

Reviewed by: ____ Approved by: ___

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2 Test Summary

2.1 Compliance with FCC Part 15 subpart C

| Test | Test Requirement | Standard Paragraph | Result |
|---------------------------------|--------------------|----------------------|--------|
| Antenna Requirement | FCC Part 15 C:2015 | Section 15.247(c) | PASS |
| Conduction Emissions | FCC Part 15 C:2015 | Section 15.207(a) | PASS |
| Radiated Emissions | FCC Part 15 C:2015 | Section 15.247(d) | PASS |
| Occupied Bandwidth | FCC Part 15 C:2015 | Section 15.247(a)(2) | PASS |
| Peak power density | FCC Part 15 C:2015 | Section 15.247(e) | PASS |
| Maximum Peak Output Power | FCC Part 15 C:2015 | Section 15.247(b)(1) | PASS |
| Band edge | FCC Part 15 C:2015 | Section 15.247(d) | PASS |
| Conducted Spurious Emissions | FCC Part 15 C:2015 | Section 15.247(d) | PASS |

Note: Reference to the KDB 558074 D01 DTS Meas Guidance v03r03

The product support for Bluetooth and WiFi mode, this report is test for Bluetooth mode, for WiFi mode please refers to the report number E-F1512004-2.



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2.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, The following measurements uncertainty Levels have estimated based on ANSI C63.4:2009, the maximum value of the uncertainty as below

| No. | Item | Uncertainty | |
|-----|-------------------------|-------------|--|
| 1 | Conducted Emission Test | 1.20dB | |
| 2 | Radiated Emission Test | 3.30dB | |



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3 Test Facility

The test facility is recognized, certified or accredited by the following organizations:

.CNAS- Registration No: L6177

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2005 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on Apr. 18, 2013

.FCC- Registration No: 248337

The 3m Semi-Anechoic Chamber, 3m/10m Open Area Test Site and Shielding Room of Dongguan Yaxu (AiT) Technology Limited have been registered by Federal Communications Commission (FCC) on Aug.29, 2014.

.Industry Canada(IC)-Registration No: IC6819A-1 & IC6819A-2

The 3m Semi-Anechoic Chamber and 3m/10m Open Area Test Site of Dongguan Yaxu (AiT) Technology Limited have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing on Oct. 12, 2014.

.VCCI- Registration No: 2705

The 3m/10m Open Area Test Site, Shielding Room and 3m Chamber of Dongguan Yaxu (AiT) Technology Limited have been registered by Voluntary Control Council for Interference on Nov. 21, 2012. The Telecommunication Ports Conducted Disturbance Measurement of Dongguan Yaxu (AiT) Technology Limited have been registered by Voluntary Control Council for Interference on May. 13, 2013.

.TUV NORD

Dongguan Yaxu (AiT) Technology Limited has been assessed on Jun. 13, 2013 that it can carry out EMC tests by order and under supervision of TUV NORD.

.ITS- Registration No: TMPSHA031

Dongguan Yaxu (AiT) Technology Limited has been assessed and included in Intertek Shanghai TMP Program regarding Laboratory facilities and test equipment on Jul.22, 2012.

3.1 Deviation from standard

None

3.2 Abnormalities from standard conditions

None



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General Information

4.1 General Description of EUT

| Manufacturer: | Proexpress Distributor LLC |
|------------------------|---|
| Manufacturer Address: | 11011 GREENWOOD AVE.N APT 5,SEATTLE,WA 98103 |
| EUT Name: | Tablet PC |
| Model No: | I10X, I10X HYBRID, I10X PRO, I10X PLUS, V100X, W100X, V100X HYBRID, V100 HYBRID |
| Operation frequency: | 2402 MHz to 2480 MHz |
| NUMBER OF CHANNEL: | 40 |
| Modulation Technology: | GFSK(1Mbps) |
| Bluetooth version: | BT4.0 BLE |
| Antenna Type: | Internal antenna (Using pogo pin connector to touch the metal area of antenna.) |
| Antenna Gain: | Maximum 2.4dBi |
| H/W No.: | REV16 |
| S/W No.: | v0.02 |
| Brand Name: | Dragon Touch, KINGPAD, KINGSLIM, AKASO |
| Serial No: | N/A |
| Power Supply Range: | DC 5V/2000mA from adapter, AC 120V/60Hz for adapter or DC3.7V from battery |
| Power Supply: | The same as above. |
| Output power (max) : | 3.28dBm |
| Model description: | According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference being the model name and brand name. Therefore only one model I10X was tested in this report. |
| Note: | |
| 1 | For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |



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| Description of Channel: | | | | | | |
|-------------------------|-----------------|---------|-----------------|--|--|--|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | | | |
| 00 | 2402 | 20 | 2442 | | | |
| 01 | 2404 | 21 | 2444 | | | |
| 02 | 2406 | 22 | 2446 | | | |
| 03 | 2408 | 23 | 2448 | | | |
| 04 | 2410 | 24 | 2450 | | | |
| 05 | 2412 | 25 | 2452 | | | |
| 06 | 2414 | 26 | 2454 | | | |
| 07 | 2416 | 27 | 2456 | | | |
| 08 | 2418 | 28 | 2458 | | | |
| 09 | 2420 | 29 | 2460 | | | |
| 10 | 2422 | 30 | 2462 | | | |
| 11 | 2424 | 31 | 2464 | | | |
| 12 | 2426 | 32 | 2466 | | | |
| 13 | 2428 | 33 | 2468 | | | |
| 14 | 2430 | 34 | 2470 | | | |
| 15 | 2432 | 35 | 2472 | | | |
| 16 | 2434 | 36 | 2474 | | | |
| 17 | 2436 | 37 | 2476 | | | |
| 18 | 2438 | 38 | 2478 | | | |
| 19 | 2440 | 39 | 2480 | | | |



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4.2 Description of Test conditions

(1) EUT was tested in normal configuration (Please See following Block diagram)

| Block diagram of EUT configuration(TX Mode) | | | | | | |
|---|--|--|--|--|--|--|
| | | | | | | |
| EUT Spectrum | | | | | | |
| | | | | | | |

Note: 1.The EUT was used fully-charged battery and programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

2. Using the software to control the fixed transmitting frequency and other test mode.

(2) E.U.T. test conditions:

15.31(e): For intentional radiators, measurements of the variation of the input power or the adiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

(3) Test frequencies:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. If required reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

| Frequency range over | Number of | Location in |
|-----------------------|-------------|--|
| which device operates | frequencies | the range of operation |
| 1 MHz or less | 1 | Middle |
| 1 to 10 MHz | 2 | 1 near top and 1 near bottom |
| More than 10 MHz | 3 | 1 near top, 1 near middle and 1 near bottom |

(4) Frequency range of radiated measurements:

According to the 15.33, the test range will be up to the tenth harmonic of the highest fundamental frequency.



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4.3 EUT Peripheral List

| No. | Equipment | Manufacturer | Model No. | Serial No. | Power cord | signal cable |
|-----|-----------|--|-----------|----------------|------------|----------------------------------|
| 1 | Adapter | Shenzhen Wei Yi Tong Electronic Co., Ltd | FCC | WTA0502000USB2 | N/A | 1.2m/unshielded /undetectable |

4.4 Test Peripheral List

| No. | Equipment | Manufacturer | EMC Compliance | Model No. | Serial No. | Power cord | Remark |
|-----|-----------|--------------|-------------------|--------------|------------|------------|--------|
| 1 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |



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5 Equipments List for All Test Items

| No | Test Equipment | Manufacturer | Model No | Serial No | Cal. Date | Cal. Due Date |
|----|---|-----------------|----------------------|-----------------|------------|------------------|
| 1 | Spectrum Analyzer | ADVANTEST | R3182 | 150900201 | 2015.06.29 | 2016.06.28 |
| 2 | EMI Measuring Receiver | R&S | ESR | 101660 | 2015.06.29 | 2016.06.28 |
| 3 | Low Noise Pre Amplifier | Tsj | MLA-10K01-B01- 27 | 1205323 | 2015.06.29 | 2016.06.28 |
| 4 | Low Noise Pre Amplifier | Tsj | MLA-0120-A02-3 4 | 2648A04738 | 2015.06.29 | 2016.06.28 |
| 5 | TRILOG Super Broadband test Antenna | SCHWARZBE CK | VULB9160 | 9160-3206 | 2015.06.29 | 2016.06.28 |
| 6 | Broadband Horn Antenna | SCHWARZBE CK | BBHA9120D | 452 | 2015.06.29 | 2016.06.28 |
| 7 | SHF-EHF Horn | SCHWARZBE CK | BBHA9170 | BBHA917036 7 | 2015.06.29 | 2016.06.28 |
| 8 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264416 | 2015.06.29 | 2016.06.28 |
| 9 | EMI Test Receiver | R&S | ESCI | 100124 | 2015.06.29 | 2016.06.28 |
| 10 | LISN | Kyoritsu | KNW-242 | 8-837-4 | 2015.06.29 | 2016.06.28 |
| 11 | LISN | Kyoritsu | KNW-407 | 8-1789-3 | 2015.06.29 | 2016.06.28 |
| 12 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264417 | 2015.06.29 | 2016.06.28 |
| 13 | Loop Antenna | ETS | 6512 | 00165355 | 2015.06.29 | 2016.06.28 |
| 14 | Radiated Cable 1# (30MHz-1GHz) | FUJIKURA | 5D-2W | 01 | 2015.01.04 | 2016.01.03 |
| 15 | Radiated Cable 2# (1GHz -25GHz) | FUJIKURA | 10D2W | 02 | 2014.12.25 | 2015.12.24 |
| 16 | Conducted Cable 1#(9KHz-30MHz) | FUJIKURA | 1D-2W | 01 | 2015.01.04 | 2016.01.03 |
| 17 | SMA Antenna connector | Dosin | Dosin-SMA | N/A | N/A | N/A |

Note: The SMA antenna connector is soldered on the PCB board in order to perform conducted tests and this SMA antenna connector is listed in the equipment list.



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6 Test Result

6.1 Antenna Requirement

6.1.1 Standard requirement

15.203 requirement: For intentional device, 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.

15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

6.1.2 EUT Antenna

The antenna is Internal antenna (Using pogo pin connector to touch the metal area of antenna) and no consideration of replacement. Antenna gain is Maximum 2.4dBi from 2.4GHz to 2.5GHz.

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6.2 Conduction Emissions Measurement

6.2.1 Applied procedures / Limit

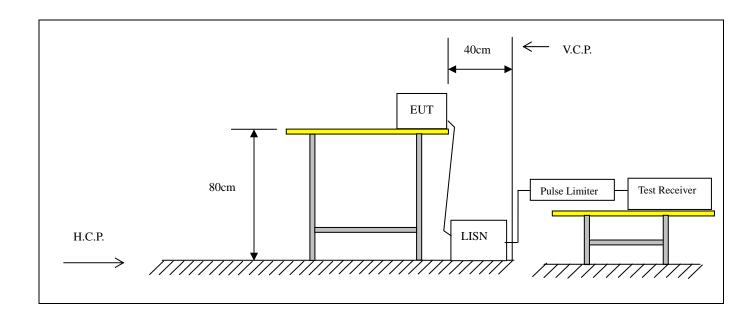
| Frequency of Emission (MHz) | MHz) Conducted Limit (dBμV) | | |
|-----------------------------|-----------------------------|------------|--|
| | Quasi-peak | Average | |
| 0.15-0.5 | 66 to 56 * | 56 to 46 * | |
| 0.5-5 | 56 | 46 | |
| 5-30 | 60 | 50 | |

Note: Decreases with the logarithm of the frequency.

6.2.2 Test procedure

EUT was placed upon a wooden test table 0.8m above the horizontal metal reference plane and 0.4m from the vertical ground plane, and it was connected to an AMN. The closest distance between the boundary of the EUT and the surface of the AMN is 0.8m. All peripherals were connected to another AMN, and placed at a distance of 10cm from each other. A spectrum and receiver was connected to the RF output port of the AMN. Both average and quasi-peak value were detected.

6.2.3 Test setup





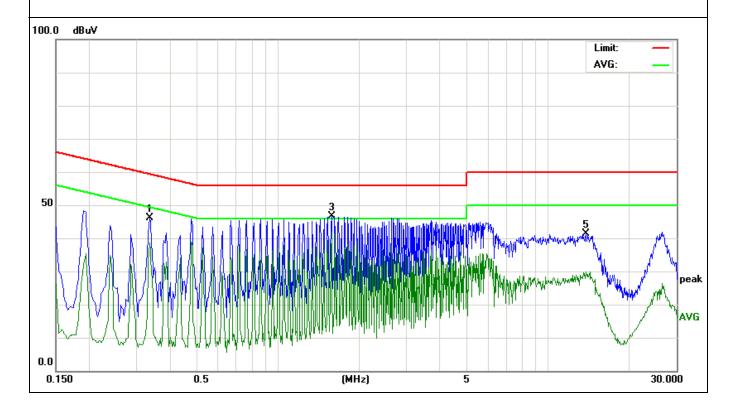
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6.2.4 Test results

| EUT: | Tablet PC | Model Name. : | I10X | | |
|---|------------------------------|--------------------|------------|--|--|
| Temperature: | 26 ℃ | Relative Humidity: | 54% | | |
| Pressure: | 1010hPa | Test Date : | 2015-12-07 | | |
| Test Mode: | TX (1Mbps) CH00 (worst case) | Phase : | Line | | |
| Test Voltage : DC 5V from adapter, AC 120V/60Hz for adapter | | | | | |

| Frequency (MHz) | Meter Reading (dBµV) | Factor(dB) | Emission Level (dBµV) | Limits (dBµV) | Over (dB) | Detector |
|--------------------|----------------------|------------|-----------------------|---------------|-----------|------------|
| 0.3339 | 35.89 | 10.15 | 46.04 | 59.35 | -13.31 | Quasi-Peak |
| 0.3339 | 28.48 | 10.15 | 38.63 | 49.35 | -10.72 | Average |
| 1.5780 | 36.75 | 9.93 | 46.68 | 56.00 | -9.32 | Quasi-Peak |
| 1.5780 | 31.95 | 9.93 | 41.88 | 46.00 | -4.12 | Average |
| 13.9138 | 40.14 | 1.24 | 41.38 | 60.00 | -18.62 | Quasi-Peak |
| 13.9138 | 28.62 | 1.24 | 29.86 | 50.00 | -20.14 | Average |

Remark: Factor = LISN factor + Cable Loss + Pulse limiter factor.



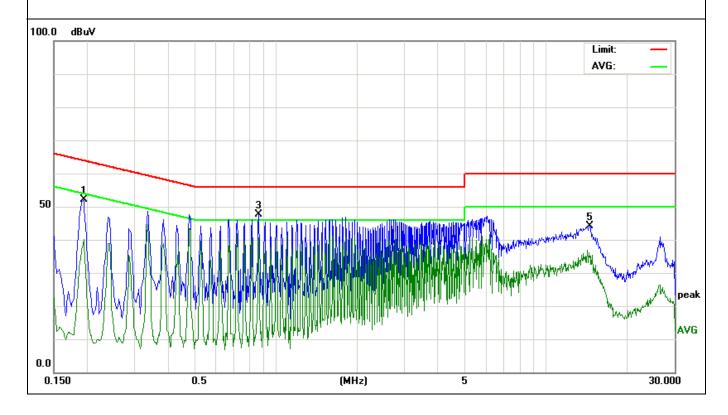


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| EUT: | Tablet PC | Model Name. : | I10X | | | | |
|---|------------------------------|---|------------|--|--|--|--|
| Temperature: | 26 ℃ | Relative Humidity: | 54% | | | | |
| Pressure: | 1010hPa | Test Date : | 2015-12-07 | | | | |
| Test Mode: | TX (1Mbps) CH00 (worst case) | X (1Mbps) CH00 (worst case) Phase : Neutral | | | | | |
| Test Voltage : DC 5V from adapter, AC 120V/60Hz for adapter | | | | | | | |

| Frequency (MHz) | Meter Reading (dBµV) | Factor(dB) | Emission Level (dBµV) | Limits (dBµV) | Over (dB) | Detector |
|--------------------|-------------------------|------------|-----------------------|---------------|-----------|------------|
| 0.1940 | 41.03 | 11.21 | 52.24 | 63.86 | -11.62 | Quasi-Peak |
| 0.1940 | 28.95 | 11.21 | 40.16 | 53.86 | -13.70 | Average |
| 0.8618 | 37.78 | 9.89 | 47.67 | 56.00 | -8.33 | Quasi-Peak |
| 0.8618 | 30.61 | 9.89 | 40.50 | 46.00 | -5.50 | Average |
| 14.5297 | 42.87 | 1.25 | 44.12 | 60.00 | -15.88 | Quasi-Peak |
| 14.5297 | 35.71 | 1.25 | 36.96 | 50.00 | -13.04 | Average |

Remark: Factor = LISN factor + Cable Loss + Pulse limiter factor.





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6.3 Radiated Emissions Measurement

6.3.1 Applied procedures / Limit

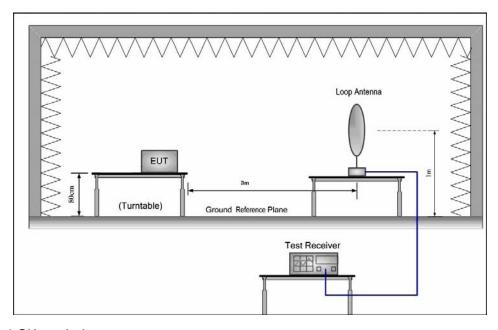
15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

| Francisco of Emission (MU-) | Field Stre | ngth | Measurement |
|-----------------------------|--------------|--------|-------------------|
| Frequency of Emission (MHz) | μV/m | dBµV/m | Distance (meters) |
| 0.009-0.49 | 2400/F(kHz) | | 300 |
| 0.49-1.705 | 24000/F(kHz) | | 30 |
| 1.705-30 | 30 | | 30 |
| 30-88 | 100 | 40 | 3 |
| 88-216 | 150 | 43.5 | 3 |
| 216-960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

6.3.2 Test setup

Test Configuration:

1) 9 kHz to 30 MHz emissions:

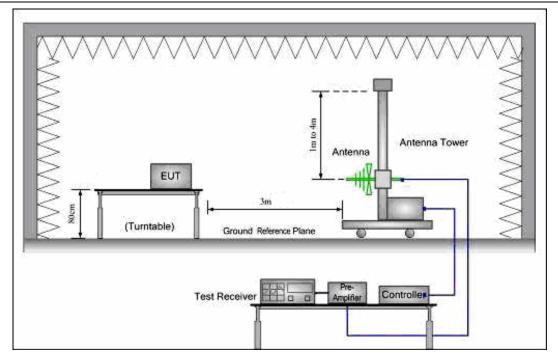


2) 30 MHz to 1 GHz emissions:

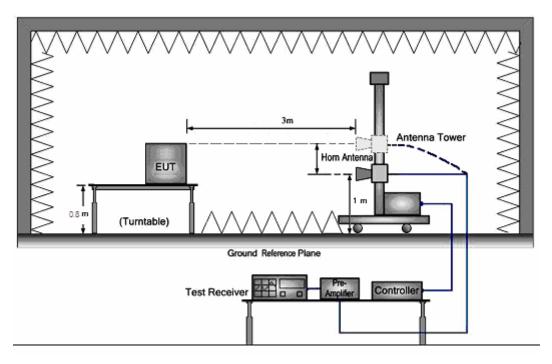


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3) 1 GHz to 25 GHz emissions:





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6.3.3 Test procedure

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter, for the test frequency of above 1GHz, horn antenna opening in the test would have been facing the EUT when rise or fall) and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 1MHz for Peak detection at frequency above 1GHz.
- g. Test the EUT in the lowest channel (2402MHz), the middle channel (2440MHz), the Highest channel (2480MHz)
- h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
- i. Repeat above procedures until all frequencies measured was complete.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For Average measurement at frequency above 1GHz.

The resolution bandwidth of the test receiver was 1MHz, the video bandwidth is 10Hz. In 18GHz to 25GHz, The EUT was checked by Horn ANT. But the test result at least have 20dB margin.

The EUT was tested in Chamber Site.

Pre-test the EUT under 2 modes: power-supplied by using the AC adapter and power-supplied by using internal battery. After pre-testing, we found the worst case is the test mode of EUT power-supplied by using internal battery.



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6.3.4 Test Result

Radiated Emissions Test Data Below 30MHz

| EUT: | Tablet PC | Model Name: | I10X | | |
|----------------------|--|--------------------|---------------------|--|--|
| Temperature: | 25 ℃ | Test Data | 2015-12-07 | | |
| Pressure: | 1005 hPa | Relative Humidity: | 60% | | |
| Test Mode : | TX(1Mbps worst case) | Test Voltage: | DC3.7V from battery | | |
| Measurement Distance | 3 m | Frenqucy Range | 9KHz to 30MHz | | |
| RBW/VBW | 9KHz~150KHz/RB 200Hz for QP, 150KHz~30MHz/RB 9KHz for QP | | | | |

No emission found between lowest internal used/generated frequencies to 30MHz.



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Radiated Emissions Test Data Below 1GHz

| EUT: | Tablet PC | Model Name: | I10X | | |
|----------------------|--|----------------------------------|---------------------|--|--|
| Temperature: | 25 ℃ | Test Data | 2015-12-07 | | |
| Pressure: | 1010 hPa | Relative Humidity: | 60% | | |
| Test Mode : | TX (1Mbps) CH00 (worst case) | Test Voltage: | DC3.7V from battery | | |
| Measurement Distance | 3 m | 3 m Frenqucy Range 30MHz to 1GHz | | | |
| RBW/VBW | 100KHz / 300KHz for spectrum, RBW=120KHz for receiver. | | | | |

(a) Antenna polarization: Horizontal

| (a) / the fina polarization. Honzontal | | | | | | | |
|--|---------|---------|----------|----------|--------|---------------|--|
| Frequency | Reading | Correct | Measure | Limit | Margin | Detector Type | |
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | | |
| | (dBuV) | (dB) | (dBuV/m) | | | | |
| 30.5304 | 33.99 | -17.43 | 16.56 | 40.00 | -23.44 | QUASIPEAK | |
| 103.4419 | 34.25 | -13.69 | 20.56 | 43.50 | -22.94 | QUASIPEAK | |
| 131.2965 | 35.41 | -14.88 | 20.53 | 43.50 | -22.97 | QUASIPEAK | |
| 231.7178 | 35.87 | -12.57 | 23.30 | 46.00 | -22.70 | QUASIPEAK | |
| 286.9823 | 34.02 | -9.95 | 24.07 | 46.00 | -21.93 | QUASIPEAK | |
| 719.1992 | 34.59 | -0.39 | 34.20 | 46.00 | -11.80 | QUASIPEAK | |

(b) Antenna polarization: vertical

| Frequency | Readin | Correct | Measure | Limit | Margin | Detector Type |
|-----------|---------|---------|----------|---------|--------|---------------|
| (MHz) | g Level | Factor | Level | (dBuV/m | (dB) | |
| | (dBuV) | (dB) | (dBuV/m) |) | | |
| 32.0667 | 33.55 | -15.35 | 18.20 | 40.00 | -21.80 | QUASIPEAK |
| 46.9947 | 33.39 | -14.28 | 19.11 | 40.00 | -20.89 | QUASIPEAK |
| 181.2834 | 34.53 | -11.07 | 23.46 | 43.50 | -20.04 | QUASIPEAK |
| 293.0842 | 33.92 | -9.90 | 24.02 | 46.00 | -21.98 | QUASIPEAK |
| 576.6443 | 33.82 | -2.76 | 31.06 | 46.00 | -14.94 | QUASIPEAK |
| 694.4174 | 35.07 | 0.03 | 35.10 | 46.00 | -10.90 | QUASIPEAK |

Note: "" means the worst case

Measurement Level = Reading Level + Factor Factor= Ant Factor + Cable Loss - Pre-amplifier



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Radiated Emissions Test Data Above 1GHz

| EUT: | Tablet PC | Model Name: | I10X | | |
|----------------------|---|------------------------------|---------------------|--|--|
| Temperature: | 25 ℃ | Test Data | 2015-12-07 | | |
| Pressure: | 1010 hPa | Relative Humidity: | 60% | | |
| Test Mode : | TX(1Mbps) | Test Voltage: | DC3.7V from battery | | |
| Measurement Distance | 3 m | Frenqucy Range 1GHz to 25GHz | | | |
| RBW/VBW | Spurious emission: 1MHz/1MHz for Peak, 1MHz/10Hz for Average. | | | | |
| KDVV/ V DVV | non-restricted band: 100KHz/300KHz for Peak. | | | | |

(a) Antenna polarization: Horizontal

| Frequency | Reading | Correct | Measure | Limit | Margin | Detector |
|-----------|---------|---------|----------|----------|--------|----------|
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | Туре |
| | (dBuV) | (dB) | (dBuV/m) | | | |
| 4804.000 | 53.15 | 5.06 | 58.21 | 74.00 | -15.79 | PEAK |
| *4804.000 | 41.72 | 5.06 | 46.78 | 54.00 | -7.22 | AVERAGE |
| 7206.000 | 47.30 | 7.03 | 54.33 | 74.00 | -19.67 | PEAK |
| 7206.000 | 36.24 | 7.03 | 43.27 | 54.00 | -10.73 | AVERAGE |

(b) Antenna polarization: Vertical

| <u> </u> | | | | | | |
|-----------|---------|---------|----------|----------|--------|----------|
| Frequency | Reading | Correct | Measure | Limit | Margin | Detector |
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | Туре |
| | (dBuV) | (dB) | (dBuV/m) | | | |
| 4804.000 | 52.37 | 5.06 | 57.43 | 74.00 | -16.57 | PEAK |
| *4804.000 | 39.55 | 5.06 | 44.61 | 54.00 | -9.39 | AVERAGE |
| 7206.000 | 45.41 | 7.03 | 52.44 | 74.00 | -21.56 | PEAK |
| 7206.000 | 33.50 | 7.03 | 40.53 | 54.00 | -13.47 | AVERAGE |

Note: '*' means the worst case

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor Factor= Ant Factor + Cable Loss - Pre-amplifier

Low Channel 00: 2402 MHz

Data rate: 1Mbps



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(a) Antenna polarization: Horizontal

| Frequency | Reading | Correct | Measure | Limit | Margin | Detector |
|-----------|---------|---------|----------|----------|--------|----------|
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | Туре |
| | (dBuV) | (dB) | (dBuV/m) | | | |
| 4880.000 | 51.29 | 5.14 | 56.43 | 74.00 | -17.57 | PEAK |
| *4880.000 | 39.43 | 5.14 | 44.57 | 54.00 | -9.43 | AVERAGE |
| 7320.000 | 45.18 | 7.52 | 52.70 | 74.00 | -21.30 | PEAK |
| 7320.000 | 34.76 | 7.52 | 42.28 | 54.00 | -11.72 | AVERAGE |

(b) Antenna polarization: Vertical

| <u> </u> | / | | | | | |
|-----------|---------|---------|----------|----------|--------|----------|
| Frequency | Reading | Correct | Measure | Limit | Margin | Detector |
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | Туре |
| | (dBuV) | (dB) | (dBuV/m) | | | |
| 4880.000 | 52.08 | 5.14 | 57.22 | 74.00 | -16.78 | PEAK |
| *4880.000 | 39.41 | 5.14 | 44.55 | 54.00 | -9.45 | AVERAGE |
| 7320.000 | 45.35 | 7.52 | 52.87 | 74.00 | -21.13 | PEAK |
| 7320.000 | 33.78 | 7.52 | 41.30 | 54.00 | -12.70 | AVERAGE |

Note: '*' means the worst case

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor Factor = Ant Factor + Cable Loss - Pre-amplifier

Middle Channel 19: 2440 MHz

Data rate: 1Mbps



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(a) Antenna polarization: Horizontal

| <u> </u> | | | | | | |
|-----------|---------|---------|----------|----------|--------|----------|
| Frequency | Reading | Correct | Measure | Limit | Margin | Detector |
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | Туре |
| | (dBuV) | (dB) | (dBuV/m) | | | |
| 4960.000 | 51.88 | 5.14 | 57.02 | 74.00 | -16.98 | PEAK |
| *4960.000 | 39.03 | 5.14 | 44.17 | 54.00 | -9.83 | AVERAGE |
| 7440.000 | 44.25 | 7.52 | 51.77 | 74.00 | -22.23 | PEAK |
| 7440.000 | 33.71 | 7.52 | 41.23 | 54.00 | -12.77 | AVERAGE |

(b) Antenna polarization: Vertical

| Frequency | Reading | Correct | Measure | Limit | Margin | Detector |
|-----------|---------|---------|----------|----------|--------|----------|
| (MHz) | Level | Factor | Level | (dBuV/m) | (dB) | Туре |
| | (dBuV) | (dB) | (dBuV/m) | | | |
| 4960.000 | 52.36 | 5.14 | 57.50 | 74.00 | -16.50 | PEAK |
| *4960.000 | 39.15 | 5.14 | 44.29 | 54.00 | -9.71 | AVERAGE |
| 7440.000 | 46.42 | 7.52 | 53.94 | 74.00 | -20.06 | PEAK |
| 7440.000 | 34.59 | 7.52 | 42.11 | 54.00 | -11.89 | AVERAGE |

Note: '*' means the worst case

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor Factor= Ant Factor + Cable Loss - Pre-amplifier

Low Channel 39: 2480 MHz

Data rate: 1Mbps



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6.3.5 TEST RESULTS (Restricted Bands Requirements)

| EUT: | Tablet PC | Model Name: | I10X | |
|--------------|---|--------------------|---------------------|--|
| Temperature: | 25 ℃ | Test Data | 2015-12-07 | |
| Pressure: | 1010 hPa | Relative Humidity: | 60% | |
| Test Mode : | TX(1Mbps) | Test Voltage: | DC3.7V from battery | |
| RBW/VBW | 1MHz/1MHz for Peak, 1MHz/10Hz for Average. | | | |
| Note: | The transmitter was setup to transmit at the lowest channel. Then the field strength was measured at 2310-2390 MHz. The transmitter was setup to transmit at the highest channel. Then the field strength was measured at 2483.5-2500 MHz. The data of 2390MHz and 2483.5MHz was the worst. | | | |

| Test | Ant.Pol. | Freq. | Rea | ding | Ant/CF | А | ct | Lir | nit |
|-----------------|----------|---------|--------|--------|--------|----------|----------|----------|----------|
| Mode | H/V | (MHz) | Peak | AV | CF(dB) | Peak | AV | Peak | AV |
| | | | (dBuv) | (dBuv) | | (dBuv/m) | (dBuv/m) | (dBuv/m) | (dBuv/m) |
| | Н | 2390.00 | 47.38 | 35.16 | -5.79 | 41.59 | 29.37 | 74.00 | 54.00 |
| TX Data rate | V | 2390.00 | 46.72 | 35.24 | -5.79 | 40.93 | 29.45 | 74.00 | 54.00 |
| 1Mbps | Н | 2483.50 | 46.54 | 35.10 | -4.98 | 41.56 | 30.12 | 74.00 | 54.00 |
| | V | 2483.50 | 48.51 | 36.35 | -4.98 | 43.53 | 31.37 | 74.00 | 54.00 |



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6.4 BANDWIDTH TEST

6.4.1 Applied procedures / Limit

15.247(a) (2) Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.4.2 Test procedure

- a. The testing follows FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r03
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- c. Spectrum Setting: RBW= 100KHz, VBW ≥ 3×RBW, Sweep time = Auto, Detector Function = Peak, centering on a hopping channel Trace = Max Hold.
- d Mark the peak frequency and -6 dB points bandwidth.

Pre-test the EUT under 2 modes: power-supplied by using the AC adapter and power-supplied by using internal battery. After pre-testing, we found the worst case is the test mode of EUT power-supplied by using internal battery.

6.4.3 Deviation from standard

No deviation.

6.4.4 Test setup





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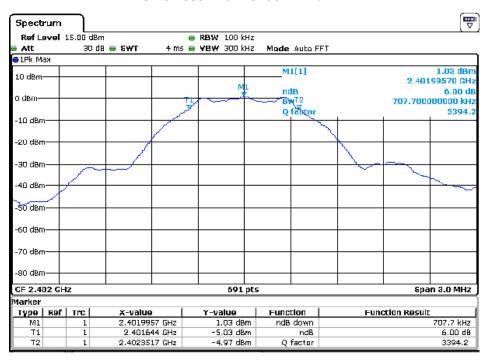
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6.4.5 Test results

| EUT: | Tablet PC | Model Name: | I10X |
|--------------|-----------|--------------------|---------------------|
| Temperature: | 26 ℃ | Relative Humidity: | 53% |
| Pressure: | 1010 hPa | Test Power: | DC3.7V from battery |
| Test Mode: | TX(1Mbps) | | |

| Test Mode | Test Channel | Frequency | 6 dB Bandwidth | Limit |
|-----------------|--------------|-----------|----------------|-------|
| Test Wode | 103t Onamici | (MHz) | (KHz) | (kHz) |
| | CH00 | 2402 | 707.7 | ≥500 |
| Data rate 1Mbps | CH19 | 2440 | 712.0 | ≥500 |
| | CH39 | 2480 | 707.7 | ≥500 |

(1Mbps)
The Lowest Channel 00: 2402 MHz

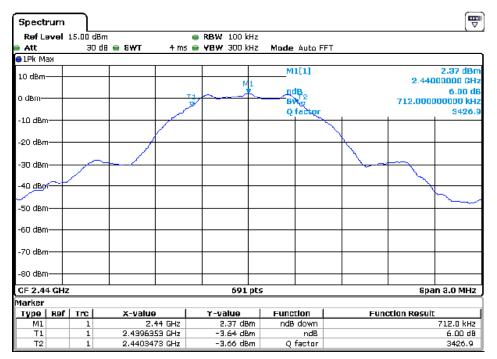




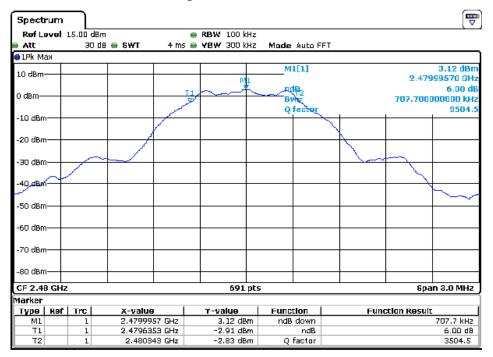
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(1Mbps)
The Middle Channel 19: 2440 MHz



(1Mbps)
The High Channel 39: 2480MHz





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6.5 Peak Power Density

6.5.1 Applied procedures / Limit

15.247(a) (e) For digitally modulated systems, 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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

6.5.2 Test procedure

- a. The testing follows Measurement procedure 10.2 Method PKPSD of FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r03
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- c. Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as center frequency to channel center frequency, span=1.5 times the bandwith, detector = peak 3kHz≤RBW≤100kHz, VBW≥3×RBW kHz, Sweep time=Auto.
- d. Trace mode = max hold. Mark the peak.
- e. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Pre-test the EUT under 2 modes: power-supplied by using the AC adapter and power-supplied by using internal battery. After pre-testing, we found the worst case is the test mode of EUT power-supplied by using internal battery.

6.5.3 Deviation from standard

No deviation.



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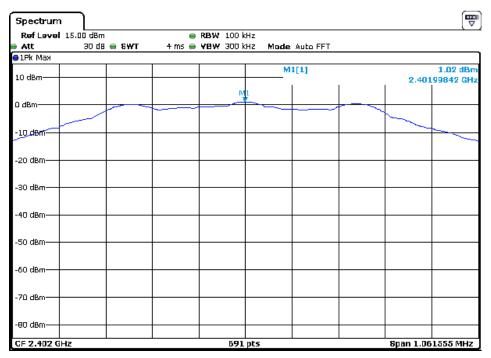
6.5.4 Test results

| EUT: | Tablet PC | Model Name: | I10X |
|--------------|-------------|--------------------|---------------------|
| Temperature: | 24 ℃ | Relative Humidity: | 53% |
| Pressure: | 1010 hPa | Test Power: | DC3.7V from battery |
| Test Mode: | TX(1Mbps) | | |

| Test Mode | Channel frenqucy (MHz) | Power Density PSD 100kHz (dBm/100kHz) | Limit (dBm/3kHz) | Result |
|--------------|------------------------------|---------------------------------------|---------------------|--------|
| TX | 2402 | 1.02 | 8 | Pass |
| (1Mbps) | 2440 | 2.37 | 8 | Pass |
| (Tivibps) | 2480 | 3.19 | 8 | Pass |

Note: The cable loss is 0.5dB

PSD 100kHz (1Mbps)
The Lowest Channel 00: 2402MHz

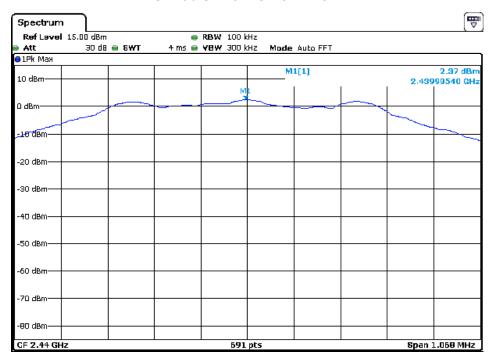




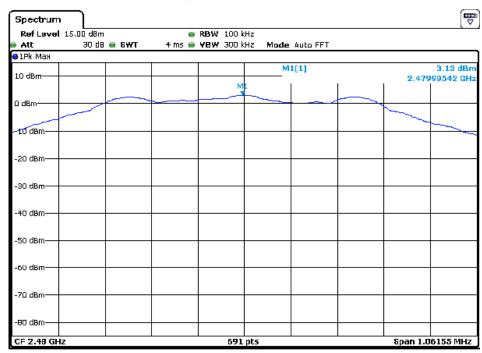
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PSD 100kHz (1Mbps) The Middle Channel 19: 2440MHz



PSD 100kHz (1Mbps)
The High Channel 39: 2480MHz





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6.6 Maximum Peak Output Power

6.6.1 Applied procedures / Limit

15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

6.6.2 Test procedure

- a The testing follows FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r03
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- ^{C.} Spectrum Setting: RBW ≥ Bandwidth, VBW ≥ 3×RBW, Sweep time = Auto, Span ≥ 3×RBW,
- d Detector = peak. Trace mode = max hold.
- e Use peak marker function to determine the peak amplitude level.

Pre-test the EUT under 2 modes: power-supplied by using the AC adapter and power-supplied by using internal battery. After pre-testing, we found the worst case is the test mode of EUT power-supplied by using internal battery.

6.6.3 Deviation from standard

No deviation.

6.6.4 Test setup





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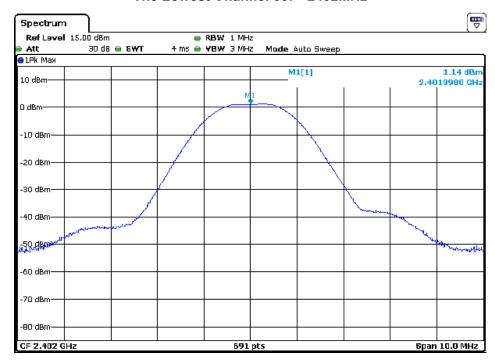
6.6.5 Test results

| EUT: | Tablet PC | Model Name: | I10X |
|--------------|------------|--------------------|---------------------|
| Temperature: | 26 ℃ | Relative Humidity: | 60% |
| Pressure: | 1010 hPa | Test Voltage: | DC3.7V from battery |
| Test Mode: | TX (1Mbps) | | |
| Note: N/A | | | |

| Test Mode | Frequency | Peak Output Power (dBm) | Limit (dBm) | Result |
|-----------------|-----------|----------------------------|----------------|--------|
| | 2402 MHz | 1.14 | 30 | Pass |
| Data rate 1Mbps | 2440 MHz | 2.54 | 30 | Pass |
| | 2480 MHz | 3.28 | 30 | Pass |

Note: The cable loss is 0.5dB

(1Mbps)
The Lowest Channel 00: 2402MHz

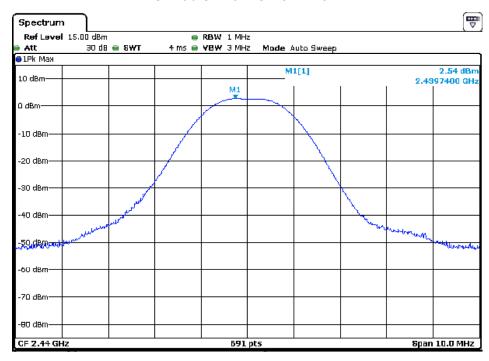




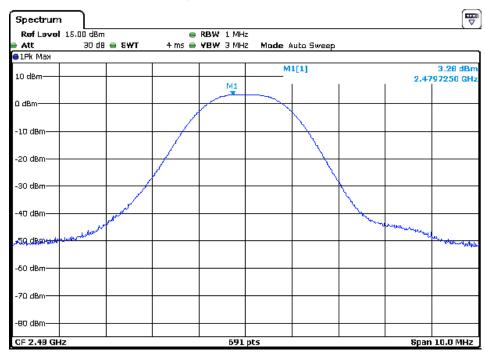
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(1Mbps)
The Middle Channel 19: 2440MHz



(1Mbps)
The High Channel 39: 2480MHz





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6.7 Band edge

6.7.1 Applied procedures / Limit

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.7.2 Test procedure

- a The testing follows FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r03
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- c. Spectrum Setting: RBW=100kHz, VBW ≥ 300kHz, Sweep time=Auto, Detector Function=Peak.
- d. The band edges was measured and recorded Result:

The Lower Edges attenuated more than 20dB.

The Upper Edges attenuated more than 20dB.

Pre-test the EUT under 2 modes: power-supplied by using the AC adapter and power-supplied by using internal battery. After pre-testing, we found the worst case is the test mode of EUT power-supplied by using internal battery.

6.7.3 Deviation from standard

No deviation.

6.7.4 Test setup

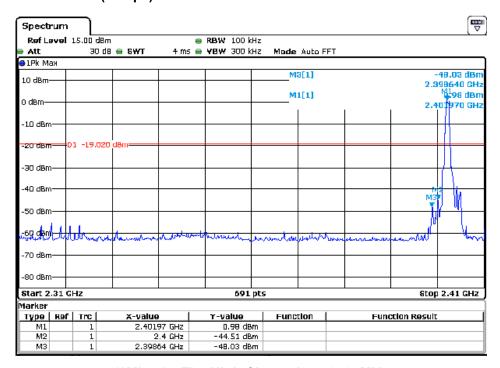
| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |



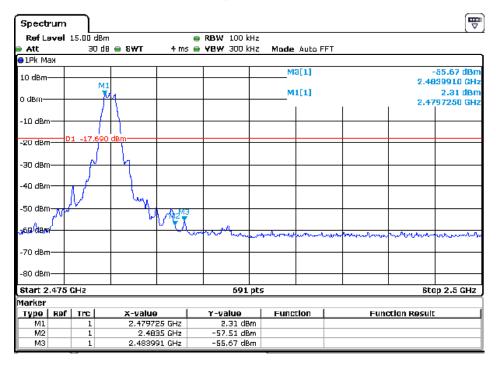
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6.7.5 Test results

(1Mbps) The Lowest Channel 00: 2402MHz



(1Mbps) The High Channel 39: 2480MHz





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6.8 Conducted Spurious Emissions

6.8.1 Applied procedures / Limit

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.8.2 Test procedure

- a. The testing follows FCC KDB publication No. 558074 D01 DTS Meas. Guidance v03r03
- b. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- c. Spectrum Setting: RBW=100kHz, VBW=300kHz, Sweep time=Auto, Detector Function=Peak, sweep points ≥ investigated frequency range/RBW.

Pre-test the EUT under 2 modes: power-supplied by using the AC adapter and power-supplied by using internal battery. After pre-testing, we found the worst case is the test mode of EUT power-supplied by using internal battery.

6.8.3 Deviation from standard

No deviation.

6.8.4 Test setup

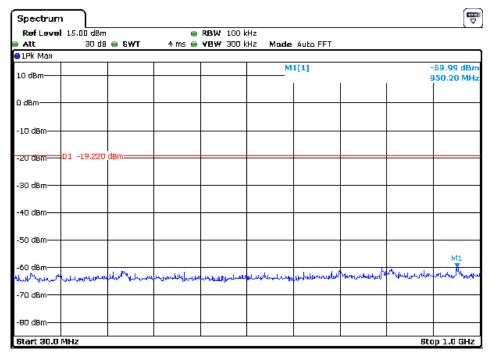


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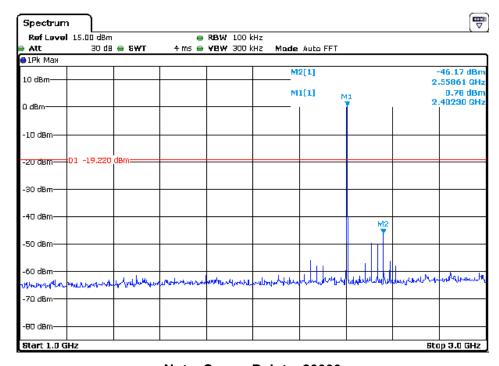
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6.8.5 Test results

The Lowest Channel 00 (1Mbps): 2402MHz

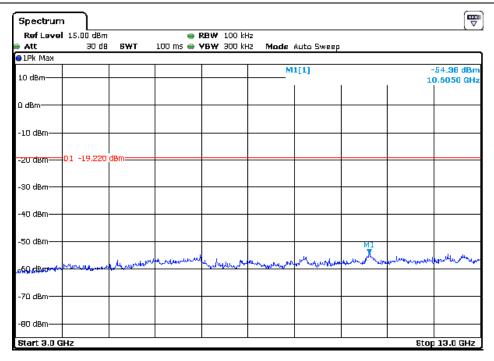


Note: Sweep Points=9700

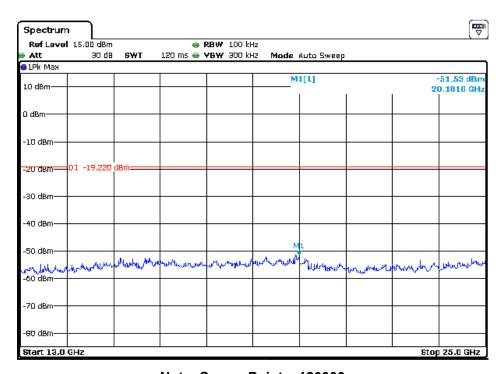


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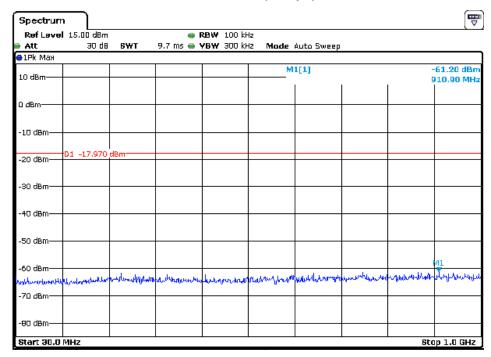
Note: Sweep Points=100000



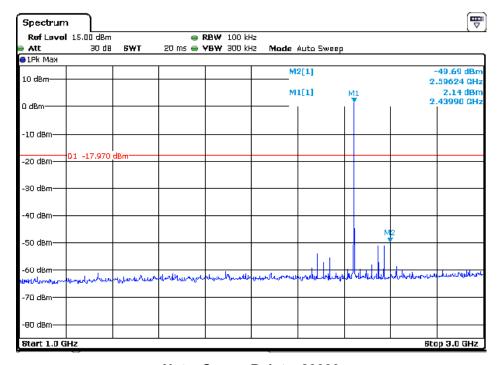
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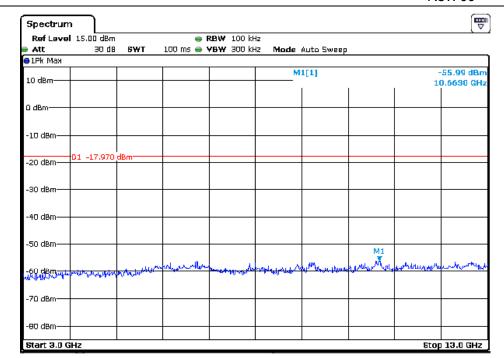
Note: Sweep Points=9700



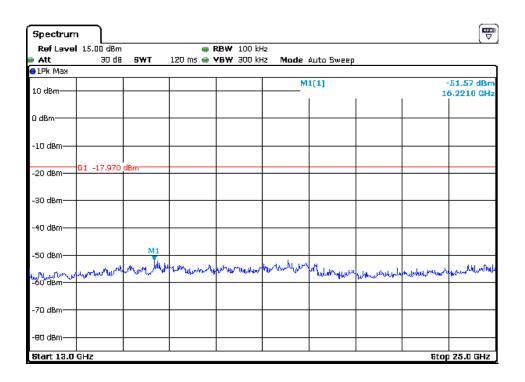


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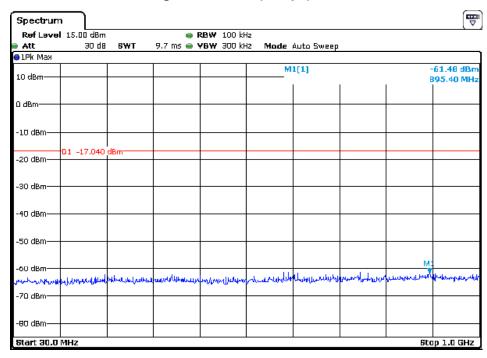
Note: Sweep Points=100000



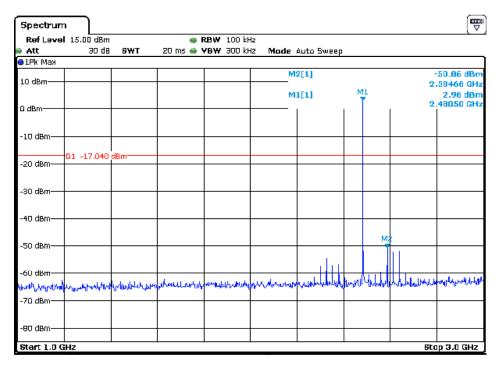
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The High Channel 39(1Mbps): 2480MHz



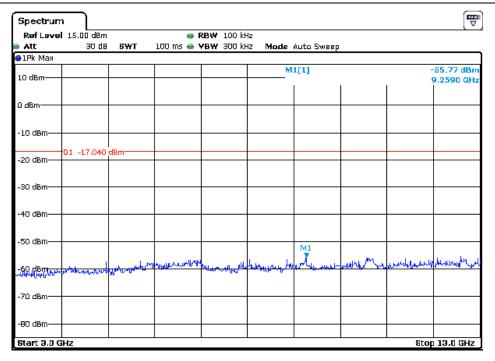
Note: Sweep Points=9700





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Note: Sweep Points=100000

