

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC145815

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FCC Radio Test Report FCC ID: Y34-UITBSM

Original Grant

Report No. : TB-FCC145815

Applicant : Outform Ltd

Equipment Under Test (EUT)

EUT Name : 32"IDISPLAY

Model No. : UIT232B-B06

Series No. : Please see the page of 4

Brand Name : N/A

Receipt Date : 2015-10-22

Test Date : 2015-10-22 to 2015-10-28

Issue Date : 2015-10-29

Standards : FCC Part 15, Subpart C (15.247:2015)

Test Method : ANSI C63.10: 2013

Conclusions : PASS

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC and IC requirements

Test/Witness

Engineer

Approved&

Authorized

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0



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1. General Information about EUT

1.1 Client Information

Applicant : Outform Ltd

Address : R405, East, Buliding 203, Tai Ran Industrial Zone, Chengongmiao,

Futian, Shenzhen, China

Manufacturer : Outform Ltd

Address: R405, East, Buliding 203, Tai Ran Industrial Zone, Chengongmiao,

Futian, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

| EUT Name | 1 | 32"IDISPLAY | | | |
|------------------------|---|--|--|--|--|
| Models No. | 1 | UIT232B-B06, UIT232X-XYY, UIT213X-XYY, UIT310X-XYY, UIT306X-XYY, UIT332X-XYY, UIT432X-XYY (The 1st X is "A" or "B" represents the software version; The 2nd X is A-Z represents the color; YY is client number from "01" to "50".) | | | |
| Model Difference | | They are identical in circuitry design, PCB layout, electrical components used, internal wiring and functions, only different on color. | | | |
| Product Description | | Operation Frequency: BLE: 2402MHz~2480MH WIFI 802.11b/g/n(H20): 802.11n(H40): 242 Number of Channel: RF Output Power: Antenna Gain: Modulation Type: Bit Rate of Transmitter: | 2412MHz~2462MHz see note(2) Bluetooth 4.0 (BLE): 40 channels see note(3) -0.114 dBm Conducted Power 2.12 dBi Embedded Antenna GFSK | | |
| Power Supply | | DC power supplied by S | | | |
| Power Rating | : | Switching Adapter: Input:100~240V, 50/60Hz 1.5A Max Output:12V, 5000mA | | | |
| Connecting I/O Port(S) | | Please refer to the User | 's Manual | | |

Note:

- (1) This Test Report is FCC Part 15.247 for Bluetooth BLE, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v03r03.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. The EUT has also been tested and complied the FCC 15C for WiFi function, and recorded in the separate test report.



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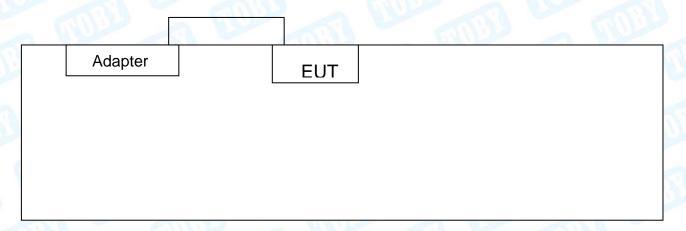
(3) Antenna information provided by the applicant.

(4) Channel List:

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

1.3 Block Diagram Showing the Configuration of System Tested

TX Mode



1.4 Description of Support Units

The EUT has been tested as an independent unit.



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1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

| For Conducted Test | | | | |
|-----------------------------|--------------------------|--|--|--|
| Final Test Mode Description | | | | |
| Mode 1 | AC Charging With TX Mode | | | |

| For Radiated Test | | | | |
|-----------------------------------|--------------------------|--|--|--|
| Final Test Mode Description | | | | |
| Mode 2 | AC Charging With TX Mode | | | |
| Mode 3 TX Mode (Channel 00/20/39) | | | | |

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

Bluetooth BLE Mode: GFSK Modulation Transmitting mode.

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



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1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

| Test Software Version | Realtek MP Test | | |
|-----------------------|-----------------|-------|-------|
| Channel | CH 00 | CH 20 | CH 39 |
| BLE Mode | DEF | DEF | DEF |

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

| Test Item | Parameters | Expanded Uncertainty (U _{Lab}) |
|--------------------|-------------------|--|
| | Level Accuracy: | |
| Conducted Emission | 9kHz~150kHz | ±3.42 dB |
| | 150kHz to 30MHz | ±3.42 dB |
| Dadiated Emission | Level Accuracy: | . 4 CO dD |
| Radiated Emission | 9kHz to 30 MHz | ±4.60 dB |
| Radiated Emission | Level Accuracy: | ±4.40 dB |
| Radiated Emission | 30MHz to 1000 MHz | ±4.40 db |
| Radiated Emission | Level Accuracy: | ±4.20 dB |
| Radiated Emission | Above 1000MHz | ±4.20 UB |



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1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

May 22, 2014 certificated by TUV Rheinland(China) Co., Ltd. with TUV certificate No.: UA 50282953 0001 and report No.: 17026822 002. The certificate is valid until the next scheduled audit or up to 18 months, at the discretion of TUV Rhineland.



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2. Test Summary

| Standa | rd Section | Tool Hom | lu dans ont | a Wy | |
|--------------|--------------------|--|-------------|--------|--|
| FCC | IC | Test Item | Judgment | Remark | |
| 15.203 | 1 | Antenna Requirement | PASS | N/A | |
| 15.207 | RSS-GEN 7.2.4 | Conducted Emission | PASS | N/A | |
| 15.205 | RSS-GEN 7.2.2 | Restricted Bands | PASS | N/A | |
| 15.247(a)(2) | RSS 247 5.2 (1) | 6dB Bandwidth | PASS | N/A | |
| 15.247(b) | RSS 247 5.4 (4) | Peak Output Power | PASS | N/A | |
| 15.247(e) | RSS 247 5.2 (2) | Power Spectral Density | PASS | N/A | |
| 15.247(d) | RSS 247 5.5 | Transmitter Radiated Spurious Emission | PASS | N/A | |

Note: "/" for no requirement for this test item.

N/A is an abbreviation for Not Applicable.



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3. Test Equipment

| Conducte | d Emission Te | est | | | |
|---------------------------|--|-------------|-------------|---------------|------------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Due Date |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 100321 | Aug. 07, 2015 | Aug. 06, 2016 |
| RF Switching Unit | Compliance Direction Systems Inc | RSU-A4 | 34403 | Aug. 07, 2015 | Aug. 06, 2016 |
| AMN | SCHWARZBECK | NNBL 8226-2 | 8226-2/164 | Aug. 07, 2015 | Aug. 06, 2016 |
| LISN | Rohde & Schwarz | ENV216 | 101131 | Aug. 07, 2015 | Aug. 06, 2016 |
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Date |
| Equipment | Manufacturar | Model No | Sorial No. | Last Cal | Cal. Due |
| Spectrum | Agilent | E4407B | MY45106456 | Aug. 29, 2015 | Aug. 28, 2016 |
| Analyzer | Agilerit | E4407B | W1145100450 | Aug. 29, 2015 | Aug. 20, 2010 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 100010/007 | Aug. 07, 2015 | Aug. 06, 2016 |
| Bilog Antenna | ETS-LINDGREN | 3142E | 00117537 | Mar. 28, 2015 | Mar. 27, 2016 |
| Bilog Antenna | ETS-LINDGREN | 3142E | 00117542 | Mar. 28, 2015 | Mar. 27, 2016 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00143207 | Mar. 28, 2015 | Mar. 27, 2016 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00143209 | Mar. 28, 2015 | Mar. 27, 2016 |
| Pre-amplifier | Sonoma | 310N | 185903 | Mar. 28, 2015 | Mar. 27, 2016 |
| Pre-amplifier | HP | 8447B | 3008A00849 | Mar. 28, 2015 | Mar. 27, 2016 |
| Cable | HUBER+SUHNER | 100 | SUCOFLEX | Mar. 28, 2015 | Mar. 27, 2016 |
| Positioning Controller | ETS-LINDGREN | 2090 | N/A | N/A | N/A |



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4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

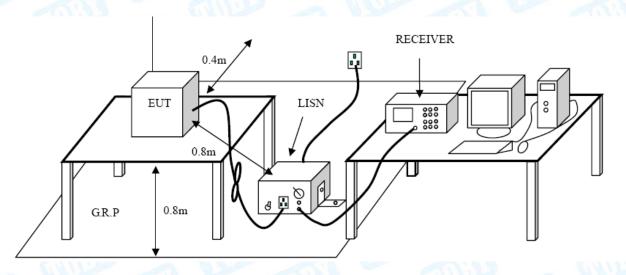
Conducted Emission Test Limit

| THE PROPERTY OF THE PARTY OF TH | Maximum RF Line Voltage (dBμV) | | |
|--|--------------------------------|---------------|--|
| Frequency | Quasi-peak Level | Average Level | |
| 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * | |
| 500kHz~5MHz | 56 | 46 | |
| 5MHz~30MHz | 60 | 50 | |

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



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I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Test data please refer the following pages.



| EUT: | 32"IDISPLAY | Mod | lel Name : | UIT232B-B06 |
|---------------|-------------------------------|-------------|-----------------|-------------|
| Temperature: | 25 ℃ | Rela | ative Humidity: | 55% |
| Test Voltage: | AC 120V/60Hz | 100 | 6 | |
| Terminal: | Line | AROL | | |
| Test Mode: | AC Charging with | TX BLE Mode | 2402MHz | A HILL |
| Remark: | Only worse case is | s reported | | 1:33 |
| 40 | May May Company of the second | | | QP: AVG: — |
| -10 | | | | |

| No. M | k. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-------|----------|------------------|-------------------|------------------|-------|--------|----------|
| | MHz | dBu∨ | dB | dBu∨ | dBu∀ | dB | Detector |
| 1 | 0.1539 | 47.20 | 9.93 | 57.13 | 65.78 | -8.65 | QP |
| 2 | 0.1539 | 33.02 | 9.93 | 42.95 | 55.78 | -12.83 | AVG |
| 3 | 0.1900 | 41.73 | 10.00 | 51.73 | 64.03 | -12.30 | QP |
| 4 | 0.1900 | 27.57 | 10.00 | 37.57 | 54.03 | -16.46 | AVG |
| 5 | 0.2340 | 35.63 | 10.02 | 45.65 | 62.30 | -16.65 | QP |
| 6 | 0.2340 | 25.03 | 10.02 | 35.05 | 52.30 | -17.25 | AVG |
| 7 | 0.5780 | 30.89 | 10.06 | 40.95 | 56.00 | -15.05 | QP |
| 8 | 0.5780 | 24.39 | 10.06 | 34.45 | 46.00 | -11.55 | AVG |
| 9 | 1.5780 | 26.47 | 10.06 | 36.53 | 56.00 | -19.47 | QP |
| 10 | 1.5780 | 20.74 | 10.06 | 30.80 | 46.00 | -15.20 | AVG |
| 11 | 13.4220 | 38.13 | 10.23 | 48.36 | 60.00 | -11.64 | QP |
| 12 * | 13.4220 | 33.72 | 10.23 | 43.95 | 50.00 | -6.05 | AVG |

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor



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| 7 4 |
|----------------|
| K V |
| " |
| Contraction of |
| |

| EUT: | 32"IDI | ISPLAY | 2 W | Model Name | : | UIT232E | 3-B06 |
|--|--|---|--|--|--|---|--------------------------------------|
| Temperature: | 25 ℃ | CINE | | Relative Hum | nidity: | 55% | ARTH |
| Test Voltage: | AC 12 | 0V/60Hz | | 20 | 67 | 1130 | |
| Terminal: | Neutral | | | | | | |
| Test Mode: | AC Ch | narging with | TX BLE N | Mode 2402MH | Z | 1 N | N. Land |
| Remark: | Only v | vorse case | is reported | t | | 33 | |
| 90.0 dBuV | | | | | | | |
| 40 | | Aff White was worked | | | www.mar. | QP: AVG: | |
| | , | | | Www. | And the second s | יין יין | pea AV(|
| 0.150 | 0.5 | | (MHz) | 5 | And the second s | , | A. |
| 0.150 | 0.5 Freq. | Reading Level | (MHz) Correct Factor | Measure- | Limit | O∨er | AVI |
| 0.150 No. Mk. | Freq. | Level | Correct Factor | Measure- ment | Limit dBuV | dB | 30.000 |
| 0.150 No. Mk. | Freq. MHz | Level dBuV | Correct Factor | Measure- ment | dBu∀ 65.78 | dB | 30.000 |
| 0.150 No. Mk. 1 0. 2 0. | Freq. MHz | dBuV 46.41 | Correct Factor dB 9.93 | Measure- ment dBuV 56.34 | dBuV 65.78 55.78 | dB -9.44 | 30.000 Detector |
| 0.150 No. Mk. 1 0. 2 0. 3 0. | Freq. MHz 1539 | dBuV 46.41 32.14 | Correct Factor dB 9.93 9.93 | Measurement dBuV 56.34 42.07 | dBuV 65.78 55.78 63.86 | dB -9.44 -13.71 | 30.000 Detector QP AVG |
| 0.150 No. Mk. 1 0. 2 0. 3 0. 4 0. | Freq. MHz 1539 1539 | dBuV 46.41 32.14 40.12 | Correct Factor dB 9.93 9.93 | Measurement dBuV 56.34 42.07 50.13 | dBuV 65.78 55.78 63.86 53.86 | -9.44 -13.71 -13.73 | 30.000 Detector QP AVG |
| 0.150 No. Mk. 1 0. 2 0. 3 0. 4 0. 5 0. | Freq. MHz 1539 1539 1940 | dBuV 46.41 32.14 40.12 26.66 | Correct Factor 9.93 9.93 10.01 | Measurement dBuV 56.34 42.07 50.13 36.67 | dBuV 65.78 55.78 63.86 53.86 56.00 | -9.44 -13.71 -13.73 -17.19 | 30.000 Detector QP AVG |
| 0.150 No. Mk. 1 0.2 0.3 0.4 0.5 0.6 | Freq. MHz .1539 .1539 .1940 .1940 .5740 | dBuV 46.41 32.14 40.12 26.66 31.65 | Correct Factor 9.93 9.93 10.01 10.01 | Measurement dBuV 56.34 42.07 50.13 36.67 41.71 | dBuV 65.78 55.78 63.86 53.86 56.00 46.00 | -9.44 -13.71 -13.73 -17.19 -14.29 | 30.000 Detector QP AVG QP QP |
| No. Mk. 1 0. 2 0. 3 0. 4 0. 5 0. 6 0. 7 13. | Freq. MHz 1539 1539 1940 1940 5740 | dBuV 46.41 32.14 40.12 26.66 31.65 26.49 | Correct Factor 9.93 9.93 10.01 10.06 10.06 | Measurement dBuV 56.34 42.07 50.13 36.67 41.71 36.55 | dBuV 65.78 55.78 63.86 53.86 56.00 46.00 | -9.44 -13.71 -13.73 -17.19 -14.29 -9.45 | 30.000 Detector QP AVG |
| 0.150 No. Mk. 1 | Freq. MHz 1539 1539 1940 1940 5740 4220 | dBuV 46.41 32.14 40.12 26.66 31.65 26.49 37.89 | Oorrect Factor 9.93 9.93 10.01 10.01 10.06 10.06 | Measurement dBuV 56.34 42.07 50.13 36.67 41.71 36.55 48.12 | dBuV 65.78 55.78 63.86 53.86 56.00 46.00 50.00 | -9.44 -13.71 -13.73 -17.19 -14.29 -9.45 -11.88 | 30.000 Detector QP AVG QP AVG QP QP |
| 0.150 No. Mk. 1 0.2 0.3 0.4 0.5 0.6 0.7 13.8 * 13.9 16.5 | Freq. MHz 1539 1539 1940 1940 5740 4220 4220 | dBuV 46.41 32.14 40.12 26.66 31.65 26.49 37.89 33.32 | Correct Factor 9.93 9.93 10.01 10.01 10.06 10.06 10.23 | Measurement dBuV 56.34 42.07 50.13 36.67 41.71 36.55 48.12 43.55 | dBuV 65.78 55.78 63.86 53.86 56.00 46.00 50.00 | -9.44 -13.71 -13.73 -17.19 -14.29 -9.45 -11.88 -6.45 | 30.000 Detector QP AVG QP AVG |
| 0.150 No. Mk. 1 | Freq. MHz 1539 1539 1940 1940 5740 4220 4220 2060 | dBuV 46.41 32.14 40.12 26.66 31.65 26.49 37.89 33.32 19.61 | Correct Factor 9.93 9.93 10.01 10.06 10.06 10.23 10.23 | Measurement dBuV 56.34 42.07 50.13 36.67 41.71 36.55 48.12 43.55 29.85 | dBuV 65.78 55.78 63.86 53.86 56.00 46.00 50.00 50.00 | -9.44 -13.71 -13.73 -17.19 -14.29 -9.45 -11.88 -6.45 -30.15 | OP AVG |



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| EUT: | 32"IDISPLAY | Mod | lel Name : | UIT232B-B06 |
|---------------|--|---|------------|-------------|
| Temperature: | 25 ℃ | 25 ℃ Relative Humidity: | | 55% |
| Test Voltage: | AC 240V/60Hz | | Milion | 13 W |
| Terminal: | Line | | THE CHILD | |
| Test Mode: | AC Charging with T | X BLE Mode 24 | l02MHz | 16:10 |
| Remark: | Only worse case is | reported | Miles . | J. Harris |
| 40 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | × · · · · · · · · · · · · · · · · · · · | | AVG: |
| MUNIN | | W | Mary | AVE |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|
| | | MHz | dBu∨ | dB | dBu∨ | dBu∀ | dB | Detector |
| 1 | | 0.1539 | 42.63 | 9.93 | 52.56 | 65.78 | -13.22 | QP |
| 2 | | 0.1539 | 34.70 | 9.93 | 44.63 | 55.78 | -11.15 | AVG |
| 3 | | 0.1940 | 38.36 | 10.01 | 48.37 | 63.86 | -15.49 | QP |
| 4 | | 0.1940 | 32.53 | 10.01 | 42.54 | 53.86 | -11.32 | AVG |
| 5 | | 0.6060 | 32.62 | 10.07 | 42.69 | 56.00 | -13.31 | QP |
| 6 | | 0.6060 | 26.12 | 10.07 | 36.19 | 46.00 | -9.81 | AVG |
| 7 | | 0.7580 | 30.65 | 10.11 | 40.76 | 56.00 | -15.24 | QP |
| 8 | | 0.7580 | 24.41 | 10.11 | 34.52 | 46.00 | -11.48 | AVG |
| 9 | | 1.6740 | 29.39 | 10.06 | 39.45 | 56.00 | -16.55 | QP |
| 10 | | 1.6740 | 23.71 | 10.06 | 33.77 | 46.00 | -12.23 | AVG |
| 11 | | 13.4220 | 36.59 | 10.23 | 46.82 | 60.00 | -13.18 | QP |
| 12 | * | 13.4220 | 32.09 | 10.23 | 42.32 | 50.00 | -7.68 | AVG |

^{*:}Maximum data x:Over limit !:over margin



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| EUT: | 32"I | DISPLAY | | Model Nar | me : | UIT2 | 32B-B06 |
|------------------|---------|--|-------------------|--|--|-------------|--|
| Temperature | e: 25 ° | C | a W | Relative H | lumidity: | 55% | |
| Test Voltage | : AC 2 | 240V/60Hz | 13 | a GHI | | 1 | A STATE OF THE PARTY OF THE PAR |
| Terminal: | Neu | tral | | 13 | GIL | 100 | |
| Test Mode: | AC (| Charging with | TX BLE Mo | ode 2402MH | Iz | e | mil D |
| Remark: | Only | worse case i | s reported | MILLER | | a V | |
| 90.0 dBuV | | | | | | | |
| | | | | | | QP: AVG: | _ |
| | | | | | | | |
| | | A MANAGAMA ANA ANA ANA ANA ANA ANA ANA ANA ANA | A Markey Color A | | more and a state of the state o | | peak |
| -10 0.150 | 0.5 | Wat My Michael Jamy ablangs | (MHz) | 10/4/4/10/10/10/10/10/10/10/10/10/10/10/10/10/ | and the second of the second o | | // |
| -10 | 0.5 | Reading | | Measure- ment | Limit | Över | AVG |
| -10 0.150 | Freq. | | Correct | Measure- | dBuV | dB | AVG |
| No. Mk. | Freq. | dBuV 44.82 | Correct Factor | Measure- ment | dBuV | | 30.000 Detector QP |
| 0.150 No. Mk. | Freq. | Level dBuV | Correct Factor | Measure- ment dBuV | dBu∨ 65.64 -1 | dB | 30.000 |

| No. | Mk. | Freq. | Level | Factor | ment | Limit | O∨er | |
|-----|-----|---------|-------|--------|-------|-------|--------|----------|
| | | MHz | dBu∀ | dB | dBu∀ | dBu∀ | dB | Detector |
| 1 | | 0.1565 | 44.82 | 9.93 | 54.75 | 65.64 | -10.89 | QP |
| 2 | | 0.1565 | 29.70 | 9.93 | 39.63 | 55.64 | -16.01 | AVG |
| 3 | | 0.4100 | 27.55 | 10.02 | 37.57 | 57.65 | -20.08 | QP |
| 4 | | 0.4100 | 17.91 | 10.02 | 27.93 | 47.65 | -19.72 | AVG |
| 5 | | 0.5780 | 32.06 | 10.06 | 42.12 | 56.00 | -13.88 | QP |
| 6 | | 0.5780 | 26.37 | 10.06 | 36.43 | 46.00 | -9.57 | AVG |
| 7 | | 0.6380 | 29.86 | 10.09 | 39.95 | 56.00 | -16.05 | QP |
| 8 | | 0.6380 | 23.21 | 10.09 | 33.30 | 46.00 | -12.70 | AVG |
| 9 | | 13.4220 | 37.68 | 10.23 | 47.91 | 60.00 | -12.09 | QP |
| 10 | * | 13.4220 | 33.18 | 10.23 | 43.41 | 50.00 | -6.59 | AVG |
| 11 | | 24.3980 | 19.76 | 10.16 | 29.92 | 60.00 | -30.08 | QP |
| 12 | | 24.3980 | 13.57 | 10.16 | 23.73 | 50.00 | -26.27 | AVG |

^{*:}Maximum data x:Over limit !:over margin



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5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9kHz~1000MHz)

| Frequency (MHz | Field Strength (microvolt/meter) | Measurement Distance (meters) |
|-------------------|----------------------------------|-------------------------------|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

Radiated Emission Limit (Above 1000MHz)

| Frequency | Class A (dBuV | /m)(at 3 M) | Class B (dBuV/m)(at 3 M) | | |
|------------|---------------|-------------|--------------------------|---------|--|
| (MHz) | Peak Aver | | Peak | Average | |
| Above 1000 | 80 | 60 | 74 | 54 | |

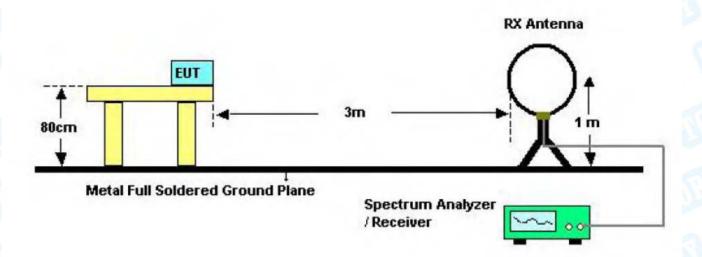
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

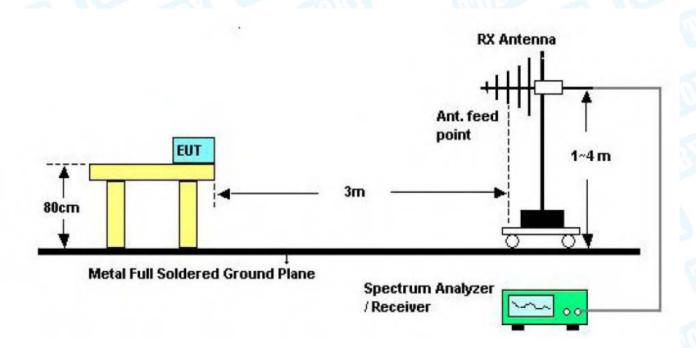


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5.2 Test Setup



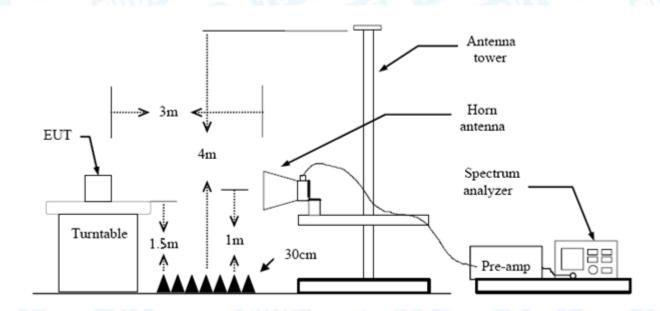
Below 30MHz Test Setup



Below 1000MHz Test Setup



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Above 1GHz Test Setup

5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.



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5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Data

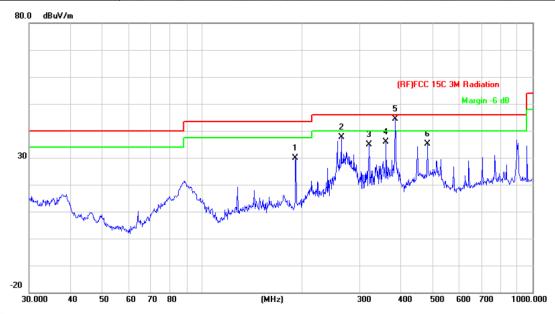
Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=1 kHz with Peak Detector for Average Values.

Test data please refer the following pages.



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 |
|---------------|-----------------------------|--------------------|-------------|
| Temperature: | 25 ℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | BLE TX 2402 Mode | | HILL |
| Remark: | Only worse case is reported | | |
| | | | |



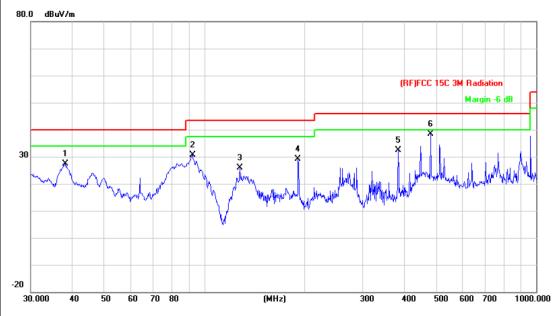
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 191.7450 | 50.79 | -20.81 | 29.98 | 43.50 | -13.52 | peak |
| 2 | | 263.8190 | 55.44 | -17.82 | 37.62 | 46.00 | -8.38 | peak |
| 3 | | 319.9370 | 51.26 | -16.33 | 34.93 | 46.00 | -11.07 | peak |
| 4 | | 360.4476 | 50.35 | -14.55 | 35.80 | 46.00 | -10.20 | peak |
| 5 | * | 383.9318 | 58.32 | -13.87 | 44.45 | 46.00 | -1.55 | peak |
| 6 | | 480.5276 | 46.64 | -11.62 | 35.02 | 46.00 | -10.98 | peak |

^{*:}Maximum data x:Over limit !:over margin



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 |
|---------------|----------------------------|--------------------|-------------|
| Temperature: | 25 ℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60Hz | | |
| Ant. Pol. | Vertical | | |
| Test Mode: | BLE TX 2402 Mode | | |
| Remark: | Only worse case is reporte | ed | 133 |
| | | | |



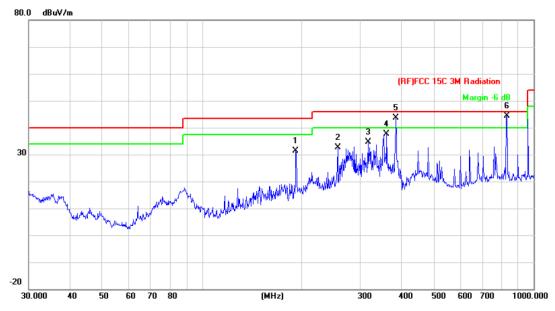
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 38.0783 | 46.29 | -18.96 | 27.33 | 40.00 | -12.67 | peak |
| 2 | | 92.1388 | 53.10 | -22.50 | 30.60 | 43.50 | -12.90 | peak |
| 3 | | 128.1130 | 48.02 | -22.24 | 25.78 | 43.50 | -17.72 | peak |
| 4 | | 191.7450 | 49.82 | -20.81 | 29.01 | 43.50 | -14.49 | peak |
| 5 | | 383.9318 | 46.20 | -13.87 | 32.33 | 46.00 | -13.67 | peak |
| 6 | * | 480.5276 | 50.03 | -11.62 | 38.41 | 46.00 | -7.59 | peak |

^{*:}Maximum data x:Over limit !:over margin



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| EUT: | 32"IDISPLAY | UIT232B-B06 | | | | |
|---------------|-----------------------------|--------------------|-----|--|--|--|
| Temperature: | 25 ℃ | Relative Humidity: | 55% | | | |
| Test Voltage: | AC 120V/60Hz | | 339 | | | |
| Ant. Pol. | Horizontal | | | | | |
| Test Mode: | BLE TX 2442 Mode | | | | | |
| Remark: | Only worse case is reported | | | | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 191.7450 | 52.29 | -20.81 | 31.48 | 43.50 | -12.02 | peak |
| 2 | | 256.5211 | 50.67 | -17.98 | 32.69 | 46.00 | -13.31 | peak |
| 3 | | 316.5890 | 51.09 | -16.45 | 34.64 | 46.00 | -11.36 | peak |
| 4 | | 360.4476 | 52.18 | -14.55 | 37.63 | 46.00 | -8.37 | peak |
| 5 | İ | 383.9318 | 57.49 | -13.87 | 43.62 | 46.00 | -2.38 | peak |
| 6 | * | 830.4002 | 50.71 | -6.38 | 44.33 | 46.00 | -1.67 | peak |

^{*:}Maximum data x:Over limit !:over margin



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 | | | | |
|------------------------------|---|--|--|--|--|--|--|
| Temperature: | mperature: 25 °C Relative Humidity: 55% | | | | | | |
| Test Voltage: | AC 120V/60Hz | AC 120V/60Hz | | | | | |
| Ant. Pol. | Vertical | | | | | | |
| Test Mode: | BLE TX 2442 Mod | X 2442 Mode | | | | | |
| Remark: | Only worse case i | is reported | 1:35 | | | | |
| 80.0 dBuV/m | | | | | | | |
| 30 | | Z X X X X X X X X X X X X X X X X X X X | PEC 15C 3M Radiation Margin -6 dB 4 X Margin -6 dB White the second | | | | |
| | | | | | | | |
| -20 | | | | | | | |
| | 50 60 70 80 | (MHz) 300 400 | 0 500 600 700 1000.00 | | | | |
| | Reading Freq. Level | (MHz) 300 400 Correct Measure- Factor ment Lim | | | | | |
| 30.000 40 | Reading | Correct Measure- | it Over | | | | |
| No. Mk. | Reading Freq. Level | Correct Measure- Factor ment Lim | it Over V/m dB Detecto | | | | |
| No. Mk. | Reading Freq. Level MHz dBuV | Correct Measure- Factor ment Lim | it Over V/m dB Detecto 50 -12.33 peak | | | | |
| No. Mk. 1 89 2 19 | Reading Level MHz dBuV 9.2764 53.91 | Correct Factor Measurement Lim dB/m dBuV/m dBu -22.74 31.17 43. | it Over V/m dB Detecto 50 -12.33 peak 50 -11.20 peak | | | | |
| No. Mk. 1 89 2 19 3 38 | Reading Level MHz dBuV 9.2764 53.91 2.4186 53.08 | Correct Factor Measurement Measurement Lim Measurement dB/m dBuV/m dBu -22.74 31.17 43. -20.78 32.30 43. | it Over V/m dB Detecto 50 -12.33 peak 50 -11.20 peak 00 -11.34 peak | | | | |
| No. Mk. 1 89 2 19 3 38 4 48 | Reading Level MHz dBuV 9.2764 53.91 2.4186 53.08 3.9318 48.53 | Correct Factor Measurement Ment Lim dBu dB/m dBuV/m dBu -22.74 31.17 43. -20.78 32.30 43. -13.87 34.66 46. | it Over V/m dB Detecto 50 -12.33 peak 50 -11.20 peak 00 -11.34 peak 00 -8.06 peak | | | | |



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 |
|---------------|-----------------------------|--------------------|-------------|
| Temperature: | 25 ℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60Hz | | 339 |
| Ant. Pol. | Horizontal | | |
| Test Mode: | BLE TX 2480 Mode | | Althorn |
| Remark: | Only worse case is reported | | 3 0 |



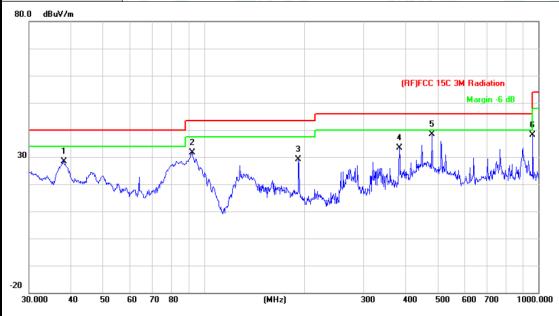
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 191.7450 | 49.79 | -20.81 | 28.98 | 43.50 | -14.52 | peak |
| 2 | | 256.5210 | 51.49 | -17.98 | 33.51 | 46.00 | -12.49 | peak |
| 3 | | 360.4476 | 48.85 | -14.55 | 34.30 | 46.00 | -11.70 | peak |
| 4 | * | 383.9318 | 54.82 | -13.87 | 40.95 | 46.00 | -5.05 | peak |
| 5 | | 480.5276 | 45.14 | -11.62 | 33.52 | 46.00 | -12.48 | peak |
| 6 | | 896.9963 | 41.38 | -5.17 | 36.21 | 46.00 | -9.79 | peak |

^{*:}Maximum data x:Over limit !:over margin



Report No.: TB-FCC145815
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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 | | | |
|---------------|-------------------------|--------------------|-------------|--|--|--|
| Temperature: | 25 ℃ | Relative Humidity: | 55% | | | |
| Test Voltage: | AC 120V/60Hz | | 11:33 | | | |
| Ant. Pol. | Vertical | | | | | |
| Test Mode: | BLE TX 2480 Mode | | | | | |
| Remark: | Only worse case is repo | orted | 133 | | | |
| 80.0 dBuV/m | | | | | | |



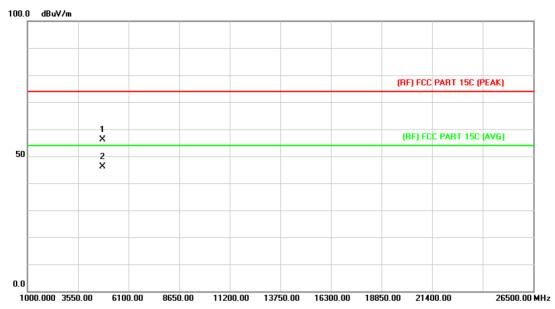
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 38.0782 | 47.29 | -18.96 | 28.33 | 40.00 | -11.67 | peak |
| 2 | | 92.1388 | 54.10 | -22.50 | 31.60 | 43.50 | -11.90 | peak |
| 3 | | 191.7450 | 49.82 | -20.81 | 29.01 | 43.50 | -14.49 | peak |
| 4 | | 383.9318 | 47.20 | -13.87 | 33.33 | 46.00 | -12.67 | peak |
| 5 | * | 480.5276 | 50.03 | -11.62 | 38.41 | 46.00 | -7.59 | peak |
| 6 | | 962.1621 | 42.87 | -4.84 | 38.03 | 54.00 | -15.97 | peak |

^{*:}Maximum data x:Over limit !:over margin



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 | | | | | |
|---------------|----------------------------|--|---------------------|--|--|--|--|--|
| Temperature: | 25 ℃ | Relative Humidity: | 55% | | | | | |
| Test Voltage: | AC 120V/60Hz | AC 120V/60Hz | | | | | | |
| Ant. Pol. | Horizontal | | | | | | | |
| Test Mode: | BLE Mode TX 2402 MHz | | THE PERSON NAMED IN | | | | | |
| Remark: | No report for the emission | No report for the emission which more than 10 dB below the | | | | | | |
| | prescribed limit. | | | | | | | |
| | | | | | | | | |

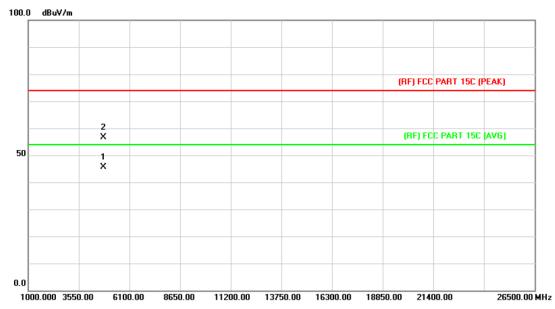


| N | o. Mk | . Freq. | Reading Level | | Measure- ment | Limit | Over | |
|---|-------|----------|------------------|-------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 4804.120 | 42.80 | 13.44 | 56.24 | 74.00 | -17.76 | peak |
| 2 | * | 4804.351 | 32.80 | 13.44 | 46.24 | 54.00 | -7.76 | AVG |



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 | | | | | |
|---------------|------------------------------|--|-------------|--|--|--|--|--|
| Temperature: | 25 ℃ | 25 °C Relative Humidity: 55% | | | | | | |
| Test Voltage: | AC 120V/60Hz | AC 120V/60Hz | | | | | | |
| Ant. Pol. | Vertical | O | | | | | | |
| Test Mode: | BLE Mode TX 2402 MHz | | A VIII | | | | | |
| Remark: | No report for the emission v | No report for the emission which more than 10 dB below the | | | | | | |
| | prescribed limit. | | | | | | | |
| İ | | | | | | | | |

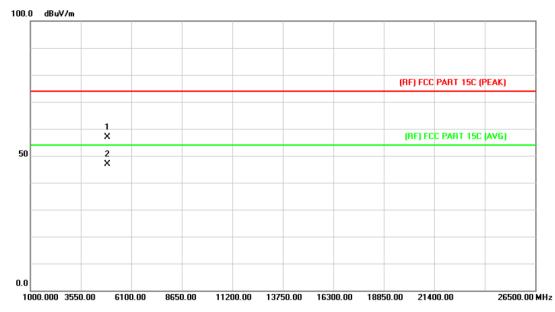


| No | . Mk | . Freq. | Reading Level | | Measure- ment | Limit | Over | |
|----|------|----------|------------------|-------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | * | 4803.978 | 32.23 | 13.44 | 45.67 | 54.00 | -8.33 | AVG |
| 2 | | 4804.314 | 43.30 | 13.44 | 56.74 | 74.00 | -17.26 | peak |



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 | | | |
|---------------|--|--------------------|-------------|--|--|--|
| Temperature: | 25 ℃ | Relative Humidity: | 55% | | | |
| Test Voltage: | AC 120V/60Hz | | 33 | | | |
| Ant. Pol. | Horizontal | Horizontal | | | | |
| Test Mode: | BLE Mode TX 2442 MHz | WILLIAM TO | HILL | | | |
| Remark: | No report for the emission which more than 10 dB below the | | | | | |
| | prescribed limit. | 13 | | | | |
| | | | | | | |

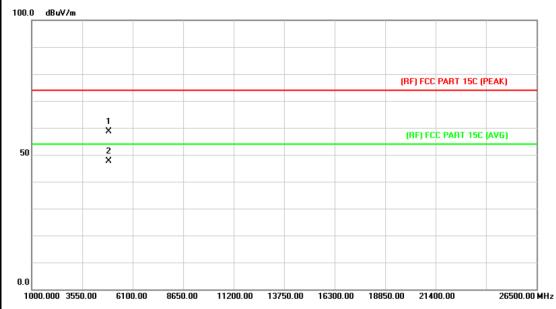


| No | . Mk. | Freq. | Reading Level | | Measure- ment | Limit | Over | |
|----|-------|----------|------------------|-------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 4883.674 | 43.05 | 13.92 | 56.97 | 74.00 | -17.03 | peak |
| 2 | * | 4884.341 | 32.95 | 13.92 | 46.87 | 54.00 | -7.13 | AVG |



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 | | | |
|---------------|--|--------------------|-------------|--|--|--|
| Temperature: | 25 ℃ | Relative Humidity: | 55% | | | |
| Test Voltage: | AC 120V/60Hz | 810 | 1133 | | | |
| Ant. Pol. | Vertical | | | | | |
| Test Mode: | BLE Mode TX 2442 MHz | WILD S | 2 110 | | | |
| Remark: | No report for the emission which more than 10 dB below the | | | | | |
| | prescribed limit. | | | | | |
| | | | | | | |

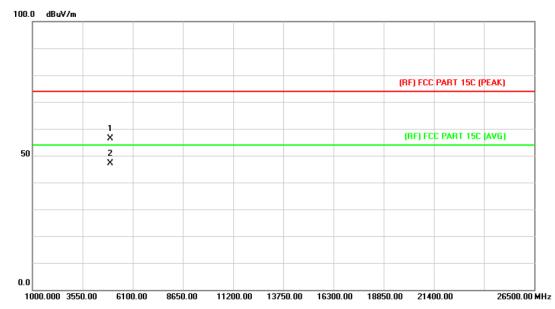


| No | . Mk. | Freq. | Reading Level | | Measure- ment | Limit | Over | |
|----|-------|----------|------------------|-------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 4883.899 | 44.72 | 13.92 | 58.64 | 74.00 | -15.36 | peak |
| 2 | * | 4884.567 | 33.72 | 13.92 | 47.64 | 54.00 | -6.36 | AVG |



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 | | | | |
|---------------|--------------------------------|--|-------------|--|--|--|--|
| Temperature: | 25 ℃ | Relative Humidity: | 55% | | | | |
| Test Voltage: | AC 120V/60Hz | AC 120V/60Hz | | | | | |
| Ant. Pol. | Horizontal | | | | | | |
| Test Mode: | BLE Mode TX 2480 MHz | | A HILL | | | | |
| Remark: | No report for the emission whi | No report for the emission which more than 10 dB below the | | | | | |
| | prescribed limit. | | | | | | |

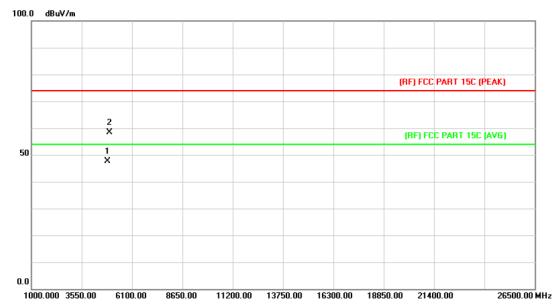


| No | . Mk. | Freq. | Reading Level | | Measure- ment | Limit | Over | |
|----|-------|----------|------------------|-------|------------------|--------|--------|----------|
| | | MHz | dBu∨ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 4959.641 | 41.95 | 14.36 | 56.31 | 74.00 | -17.69 | peak |
| 2 | * | 4959.671 | 32.76 | 14.36 | 47.12 | 54.00 | -6.88 | AVG |



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 | | | |
|---------------|--|--------------------|-------------|--|--|--|
| Temperature: | 25 ℃ | Relative Humidity: | 55% | | | |
| Test Voltage: | AC 120V/60Hz | 11 | 1133 | | | |
| Ant. Pol. | Vertical | | | | | |
| Test Mode: | BLE Mode TX 2480 MHz | WIID S | A HILL | | | |
| Remark: | No report for the emission which more than 10 dB below the | | | | | |
| | prescribed limit. | | | | | |
| i | | | | | | |



| N | lo. Mk | ι. Freq. | Reading Level | | Measure- ment | Limit | Over | |
|---|--------|----------|------------------|-------|------------------|--------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | * | 4859.674 | 33.84 | 13.77 | 47.61 | 54.00 | -6.39 | AVG |
| 2 | | 4959.756 | 43.98 | 14.36 | 58.34 | 74.00 | -15.66 | peak |



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6. Restricted Bands Requirement

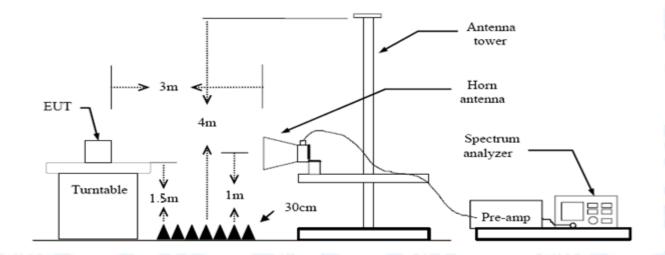
6.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

6.1.2 Test Limit

| Restricted Frequency | Class B (dB | uV/m)(at 3 M) |
|----------------------|-------------|---------------|
| Band (MHz) | Peak | Average |
| 2310 ~2390 | 74 | 54 |
| 2483.5 ~2500 | 74 | 54 |

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked



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and then Quasi Peak detector mode re-measured.

- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 KHz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=1kHz with Peak Detector for Average Values.

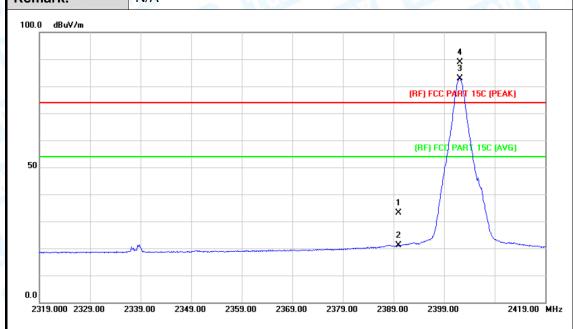
Test data please refer the following pages.



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 |
|---------------|----------------------|--|-------------|
| Temperature: | 25 ℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60Hz | 1 | |
| Ant. Pol. | Horizontal | COLUMN TO THE PARTY OF THE PART | MALL |
| Test Mode: | BLE Mode TX 2402 MHz | | 9 |
| Remark: | N/A | A HALL | |

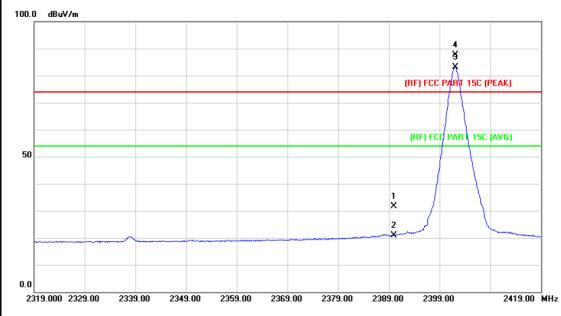


| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|----|----------|------------------|-------------------|------------------|-------------|-----------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 2390.000 | 32.41 | 0.77 | 33.18 | 74.00 | -40.82 | peak |
| 2 | | 2390.000 | 20.33 | 0.77 | 21.10 | 54.00 | -32.90 | AVG |
| 3 | * | 2402.100 | 82.14 | 0.82 | 82.96 | Fundamental | Frequency | AVG |
| 4 | Х | 2402.200 | 88.15 | 0.82 | 88.97 | Fundamental | Frequency | peak |



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 |
|---------------|----------------------|--------------------|-------------|
| Temperature: | 25 ℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60Hz | | 339 |
| Ant. Pol. | Vertical | | |
| Test Mode: | BLE Mode TX 2402 MHz | | A HATTER |
| Remark: | N/A | | 3 0 |
| | | | |



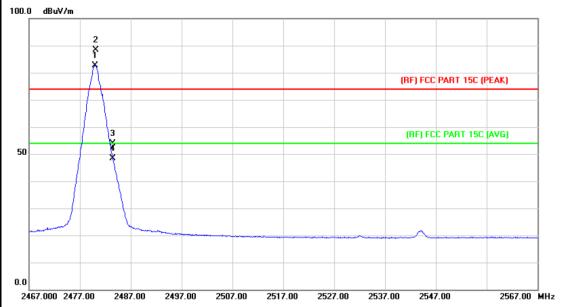
| No. | . Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|------|----------|------------------|-------------------|------------------|-----------------------|--------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 2390.000 | 30.85 | 0.77 | 31.62 | 74.00 | -42.38 | peak |
| 2 | | 2390.000 | 20.04 | 0.77 | 20.81 | 54.00 | -33.19 | AVG |
| 3 | * | 2402.100 | 82.29 | 0.82 | 83.11 | Fundamental Frequency | | AVG |
| 4 | Χ | 2402.200 | 86.83 | 0.82 | 87.65 | Fundamental Frequency | | peak |



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B0 6 | | | |
|---------------|----------------------|--------------------|-----------------|--|--|--|
| Temperature: | 25 ℃ | Relative Humidity: | 55% | | | |
| Test Voltage: | AC 120V/60Hz | | | | | |
| Ant. Pol. | Horizontal | | | | | |
| Test Mode: | BLE Mode TX 2480 MHz | | | | | |
| Remark: | N/A | THE RESERVE | | | | |
| 100.0 dBuV/m | | | | | | |



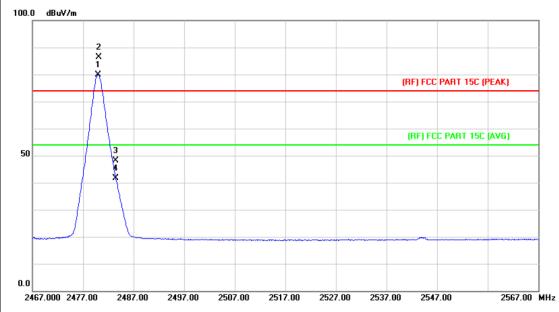
| No | . Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | O∨er | |
|----|------|----------|------------------|-------------------|------------------|---------------|-----------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | * | 2480.000 | 81.52 | 1.15 | 82.67 | Fundamental I | Frequency | AVG |
| 2 | Х | 2480.100 | 87.16 | 1.15 | 88.31 | Fundamental I | Frequency | peak |
| 3 | | 2483.500 | 52.83 | 1.17 | 54.00 | 74.00 | -20.00 | peak |
| 4 | | 2483.500 | 47.21 | 1.17 | 48.38 | 54.00 | -5.62 | AVG |

Emission Level= Read Level+ Correct Factor



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| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 |
|---------------|----------------------|--------------------|-------------|
| Temperature: | 25 ℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60Hz | 31 | |
| Ant. Pol. | Vertical | | |
| Test Mode: | BLE Mode TX 2480 MHz | WILL DES | |
| Remark: | N/A | | 33 _ [|



| No | . Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|----|------|----------|------------------|-------------------|------------------|---------------|----------|----------|
| | | MHz | dBu∀ | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | * | 2480.000 | 78.75 | 1.15 | 79.90 | Fundamental F | requency | AVG |
| 2 | Х | 2480.100 | 85.16 | 1.15 | 86.31 | Fundamental F | requency | peak |
| 3 | | 2483.500 | 47.01 | 1.17 | 48.18 | 74.00 | -25.82 | peak |
| 4 | | 2483.500 | 40.38 | 1.17 | 41.55 | 54.00 | -12.45 | AVG |

Emission Level= Read Level+ Correct Factor

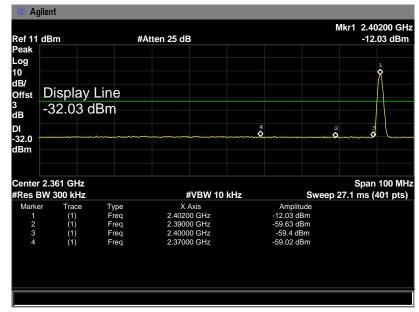


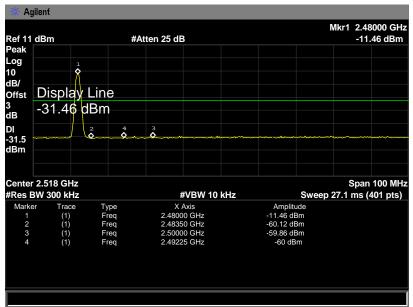


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(2) Conducted Test

| EUT: | 32"IDISPLAY | Model: | UIT232B-B06 |
|---------------|----------------------------|-------------------------|-------------|
| Temperature: | 25 ℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60Hz | 0 | |
| Test Mode: | BLE Mode TX 2402MHz / B | LE Mode TX 2480MHz | 2 Hills |
| Remark: | The EUT is programed in co | ntinuously transmitting | mode |







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7. Bandwidth Test

7.1 Test Standard and Limit

7.1.1 Test Standard FCC Part 15.247 (a)(2)

7.1.2 Test Limit

| FCC P | art 15 Subpart C(15.247)/ | RSS-247 |
|-----------|------------------------------|----------------------|
| Test Item | Limit | Frequency Range(MHz) |
| Bandwidth | >=500 KHz (6dB bandwidth) | 2400~2483.5 |

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.



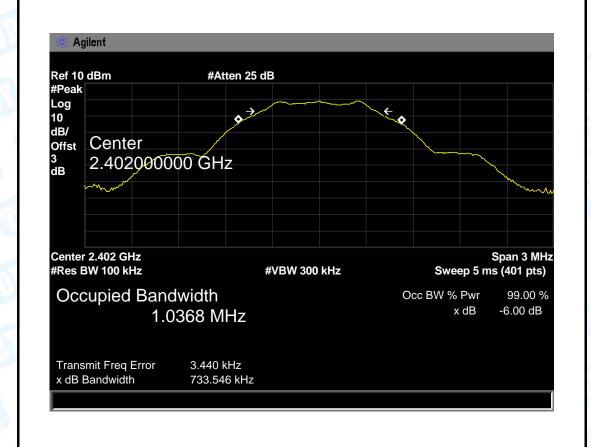
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7.5 Test Data

| EUT: | 32"IDISPLAY | | Model: | UIT232B-B06 |
|-----------------|-------------|---------------|--------------------|-------------|
| Temperature: | 25 ℃ | | Relative Humidity: | 55% |
| Test Voltage: | AC | 120V/60Hz | MILLE | A STATE OF |
| Test Mode: | BLE | TX Mode | and it | 3 0 |
| Channel frequer | су | 6dB Bandwidth | 99% Bandwidth | Limit |
| (MHz) | | (kHz) | (kHz) | (kHz) |
| 2402 | | 733.546 | 1036.80 | |
| 2442 | | 735.024 | 1037.20 | >=500 |
| 2480 | | 733.201 | 1037.90 | |
| | | PI E Mod | | • |

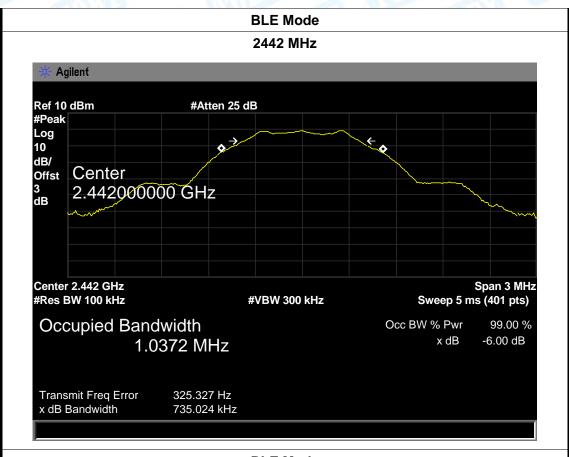
BLE Mode

2402 MHz





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BLE Mode 2480 MHz Agilent Ref 10 dBm #Atten 25 dB #Peak Log 10 dB/ Center Offst 3 dB 2.480000000 GHz Center 2.48 GHz Span 3 MHz #Res BW 100 kHz Sweep 5 ms (401 pts) **#VBW 300 kHz** Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 1.0379 MHz Transmit Freq Error 1.529 kHz x dB Bandwidth 733.201 kHz



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8. Peak Output Power Test

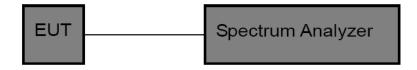
8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)

8.1.2 Test Limit

| FCC Part 15 Subpart C(15.247)/RSS-247 | | | |
|---------------------------------------|------------------|----------------------|--|
| Test Item | Limit | Frequency Range(MHz) | |
| Peak Output Power | 1 Watt or 30 dBm | 2400~2483.5 | |

8.2 Test Setup



8.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to section 9.1.1 of KDB 558074 D01 DTS Meas Guidance v03r03.

- (1) Set the RBW≥DTS Bandwidth
- (2) Set VBW≥3*RBW
- (3) Set Span≥3*RBW
- (4) Sweep time=auto
- (5) Detector= peak
- (6) Trace mode= maxhold.
- (7) Allow trace to fully stabilize, and then use peak marker function to determine the peak amplitude level.

8.4 EUT Operating Condition

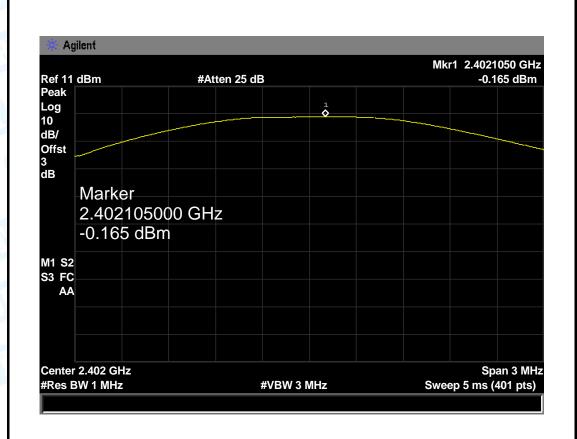
The EUT was set to continuously transmitting in the max power during the test.



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8.5 Test Data

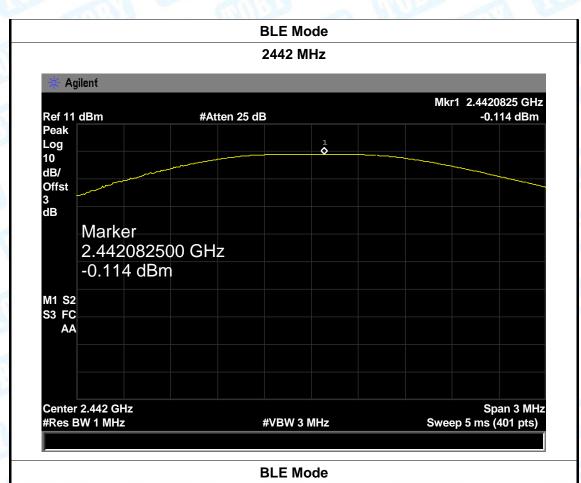
| EUT: | 32"IDISP | LAY | Model: | UIT232B-B06 |
|-----------------|----------|----------------|--------------------|-------------|
| Temperature: | 25 ℃ | | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/ | 60Hz | Million | J. Alberta |
| Test Mode: | BLE TX N | 1ode | | 3 ~ 0 |
| Channel frequer | cy (MHz) | Test Result (d | dBm) Lii | mit (dBm) |
| 2402 | | -0.165 | | |
| 2442 | | -0.114 | | 30 |
| 2480 | | -0.696 | | |
| | | BLE Mod | е | |
| | | 2402 MH: | Z | |

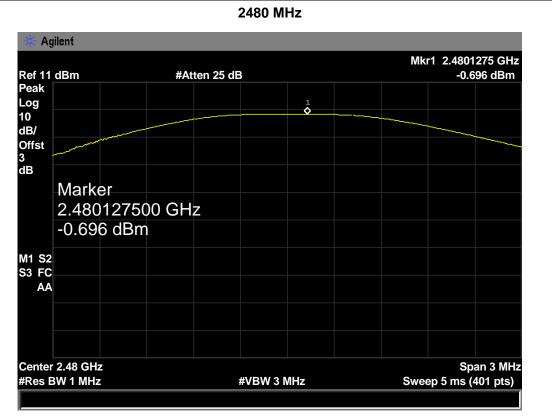




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9. Power Spectral Density Test

9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

| FC | FCC Part 15 Subpart C(15.247) | | |
|------------------------|-------------------------------|----------------------|--|
| Test Item | Limit | Frequency Range(MHz) | |
| Power Spectral Density | 8dBm(in any 3 kHz) | 2400~2483.5 | |

9.2 Test Setup



9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v03r03.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequenyc.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz(5) Set the VBW to: 10 kHz
- (6) Detector: peak(7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Midle and high channel for the test.

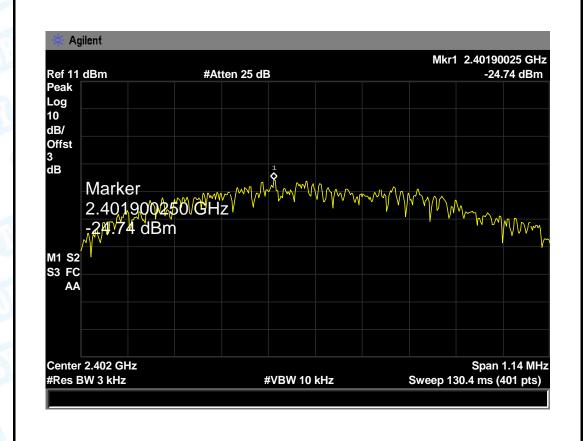


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8.5 Test Data

| EUT: | 32"IDISP | LAY | Model: | UIT232B-B06 |
|-------------------|----------|------------|--------------------|-------------|
| Temperature: | 25 ℃ | | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/ | 60Hz | | |
| Test Mode: | BLE TX M | 1ode | P. W. | |
| Channel Frequency | uency | Power Dens | sity | Limit |
| (MHz) | | (3 kHz/dBr | n) | (dBm) |
| 2402 | | -24.74 | | |
| 2442 | | -24.22 | | 8 |
| 2480 | | -24.25 | | |
| | | BI F Mod | <u>'</u> | |

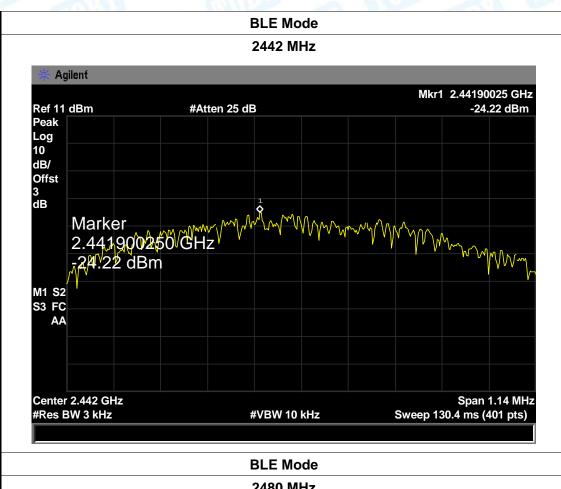
2402 MHz

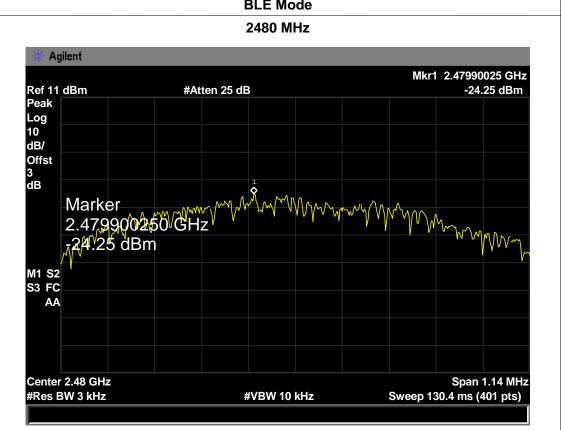




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10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

10.1.2 Requirement

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 use of a standard antenna jack or electrical connector is prohibited.

10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 2.12 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

10.3 Result

The EUT antenna is an Embedded Antenna. It complies with the standard requirement.

| Antenna Type | |
|------------------------------|--|
| ✓ Permanent attached antenna | The state of the s |
| □ Unique connector antenna | |
| ☐ Professional installation | antenna |