



STC Test Report



Date: 2015-06-11

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No.: DM119758

Applicant:

Electronics Tomorrow Ltd.
Unit 903-7, 9/F., Tower 1, Harbour Center, 1 Hok Cheung
Street, Hung Hom, Kowloon, HK

Manufacturer:

Gaojin Electronics (Shenzhen) Co., Ltd.
11 Fang Keng Road, Pinghu Zhen, Longgang, Shenzhen,
Guangdong Province, The People's Republic of China

Description of Sample(s):

Submitted sample(s) said to be
Product: Bluetooth Ambient Monitor
Brand Name: N/A
Model Number: A570
FCC ID: PEQA57000515

Date Sample(s) Received: 2015-06-03

Date Tested: 2015-06-05 to 2015-06-10

Investigation Requested:

Perform Electromagnetic Interference measurement in
accordance with FCC 47CFR [Codes of Federal Regulations]
Part 15: 2014. FCC KDB Publication 558074 D01 DTS Meas
Guidance v02and ANSI C63.4:2014 for FCC Certification.

Conclusion(s):

The submitted product COMPLIED with the requirements of
Federal Communications Commission [FCC] Rules and
Regulations Part 15. The tests were performed in accordance
with the standards described above and on Section 2.2 in this
Test Report.

Remark(s):

LONG Yun Jian, Along
Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of
STC (Dongguan) Company Limited

STC (Dongguan) Company Limited

68 Fumin Nan Road, Dalang, Dongguan, China. (Zip Code : 523 770)
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1.0 General Details

1.1 Test Laboratory

STC (Dongguan) Company Limited
EMC Laboratory
68 Fumin Nan Road, Dalang, Dongguan, Guangdong, China

Telephone: (86 769) 81119888
Fax: (86 769) 81116222

1.2 Equipment Under Test [EUT] Description of Sample(s)

| | |
|---------------|--|
| Product: | Bluetooth Ambient Monitor |
| Manufacturer: | Gaojin Electronics (Shenzhen) Co., Ltd. 11 Fang Keng Road, Pinghu Zhen, Longgang, Shenzhen, Guangdong Province, The People's Republic of China |
| Brand Name: | N/A |
| Model Number: | A570 |
| Rating: | 3.0Vd.c. ("AAA" battery x 2) |

1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Bluetooth Ambient Monitor of Electronics Tomorrow Ltd., it is modulation by IC; and type is frequency hopping spread spectrum Modulation.

1.3 Date of Order

2015-06-03

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2015-06-05 to 2015-06-10

1.6 Country of Origin

China

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1.7 RF Module Details

| | |
|---------------------------|-------------------|
| Module Model Number: | BAC |
| Module FCC ID: | |
| Module Transmission Type: | Bluetooth 4.0 |
| Modulation: | GFSK |
| Data Rates: | 1Mbps |
| Frequency Range: | 2400-2483.5MHz |
| Carrier Frequencies: | 2402MHz – 2480MHz |

Module Specification (specification provided by manufacturer)

1.8 Antenna Details

| | |
|---------------|--------------------------|
| Antenna Type: | Meander line PCB antenna |
| Antenna Gain: | -2.1dBi |

1.9 Channel List

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|----------------|------------------------|----------------|------------------------|
| 0 | 2402 | 20 | 2442 |
| 1 | 2404 | 21 | 2444 |
| 2 | 2406 | 22 | 2446 |
| 3 | 2408 | 23 | 2448 |
| 4 | 2410 | 24 | 2450 |
| 5 | 2412 | 25 | 2452 |
| 6 | 2414 | 26 | 2454 |
| 7 | 2416 | 27 | 2456 |
| 8 | 2418 | 28 | 2458 |
| 9 | 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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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2014 Regulations. FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02 and ANSI C63.4:2014 for FCC Certification.

2.2 Test Standards and Results Summary Tables

| EMISSION Results Summary | | | | | | |
|--------------------------------|------------------------|---|---------------------|-------------------------------------|--------------------------|-------------------------------------|
| Test Condition | Test Requirement | Test Method | Class / Severity | Test Result | | |
| | | | | Pass | Fail | N/A |
| Maximum Peak Output Power | FCC 47CFR 15.247(b)(3) | FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Radiated Spurious Emissions | FCC 47CFR 15.209 | ANSI C63.4:2014 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| AC Mains Conducted Emissions | FCC 47CFR 15.207 | ANSI C63.4:2014 | N/A | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Power Spectral Density | FCC 47CFR 15.247(e) | FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6dB Bandwidth | FCC 47CFR 15.247(a)(2) | FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Band Edge Emissions (Radiated) | FCC 47CFR 15.247(d) | FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Antenna requirement | FCC 47CFR 15.203 | N/A | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| RF Exposure | FCC 47CFR 15.247(i) | N/A | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Remark: The product is a battery-powered, don't need to test the AC mains conducted emissions.

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

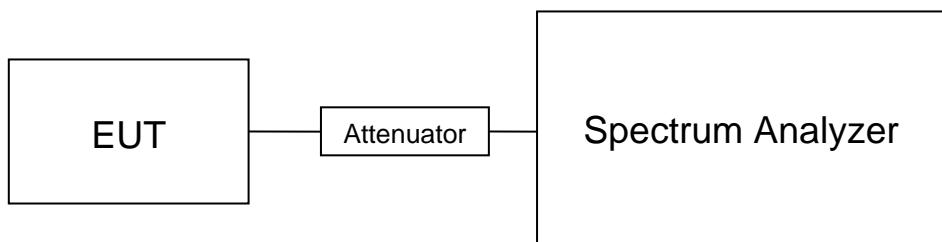
3.1.1 Maximum Peak Output Power

Test Requirement: FCC 47CFR 15.247(b)(3)
Test Method: FCC KDB Publication 558074 D01 DTS Meas Guidance v03r02
Test Date: 2015-06-10
Mode of Operation: Bluetooth 4.0 Tx mode

Test Method:

The RF output of the EUT was connected to the spectrum analyzer. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in mW.

Test Setup:



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Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

| Results of BT4.0 Tx Mode, (2402MHz to 2480MHz) : Pass (TX Unit) (GFSK) | | |
|---|-----------------------|---------------------------|
| Maximum conducted output power | | |
| Channel | Frequency(MHz) | Output Power(Watt) |
| 0 | 2402 | 0.000344 |
| 19 | 2440 | 0.000380 |
| 39 | 2480 | 0.000256 |

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB
1GHz to 26GHz 1.7dB

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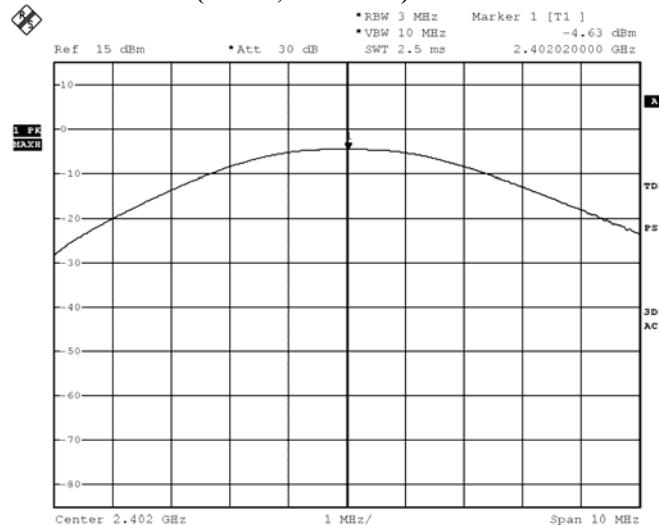
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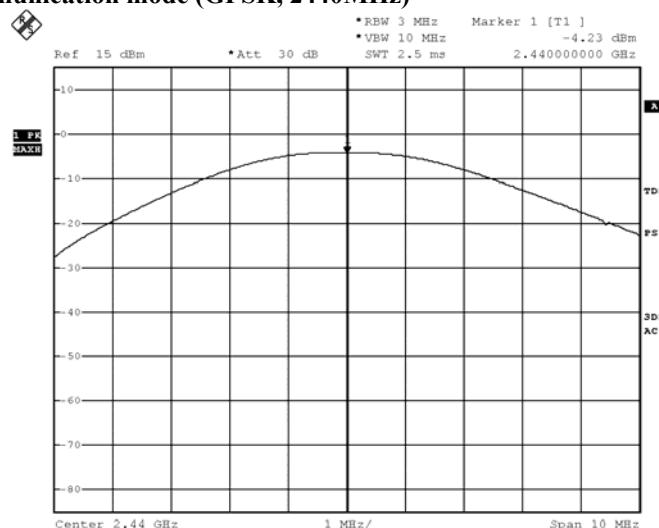
No.: DM119758

Test plot of Maximum Peak Conducted Output Power : Bluetooth Communication mode (GFSK, 2402MHz)



BMP
Date: 10.JUN.2015 13:21:41

Bluetooth Communication mode (GFSK, 2440MHz)



BMP
Date: 10.JUN.2015 13:25:13

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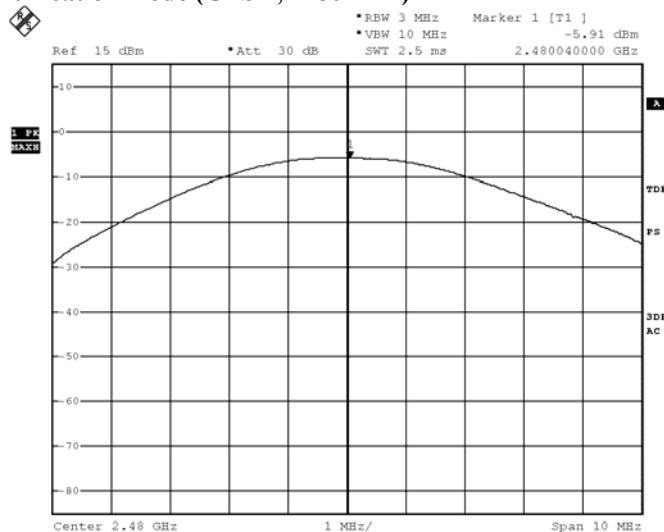
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Bluetooth Communication mode (GFSK, 2480MHz)



BMP
Date: 10.JUN.2015 13:27:37

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3.1.2 Radiated Emissions

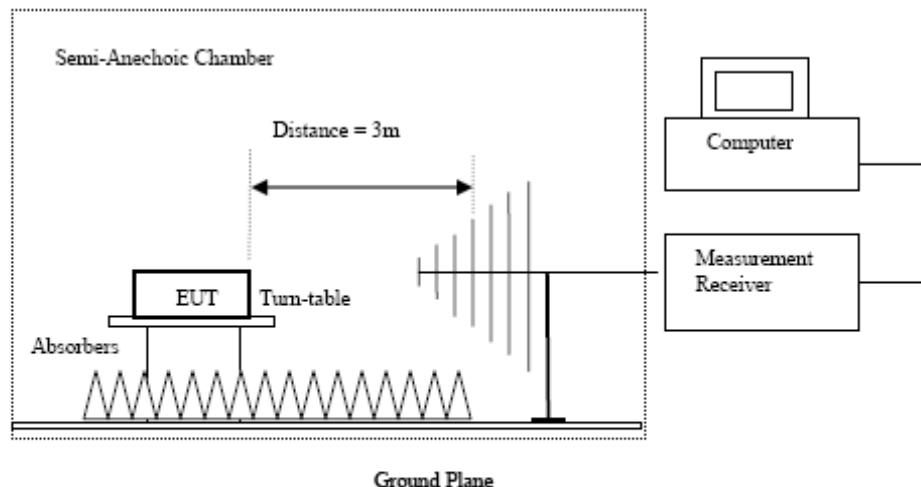
Test Requirement: FCC 47CFR 15.209
Test Method: ANSI C63.4:2014
Test Date: 2015-06-07 to 2015-06-09
Mode of Operation: Bluetooth 4.0 Tx mode

Test Method:

The sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

* Semi-anechoic chamber located on the G/F of “STC (Dongguan) Company Limited” with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 629686.

Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used, 9kHz to 30MHz loop antennas are used.

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Limits for Radiated Emissions [FCC 47 CFR 15.247 Class B]:

| Frequency Range [MHz] | Quasi-Peak Limits [μ V/m] |
|--------------------------|-----------------------------------|
| 0.009-0.490 | 2400/F (kHz) |
| 0.490-1.705 | 24000/F (kHz) |
| 1.705-30 | 30 |
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above 960 | 500 |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of TX mode (GFSK) (9kHz – 30MHz): Pass

The Low Frequency, which started from 9KHz to 30MHz, was Pre-scan and the result which was more than 20dB lower than the Limit line.

Result of Tx mode (2402.0 MHz) (GFSK) (Above 1GHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|--|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 4804.0 | 16.3 | 41.5 | 57.8 | 74.0 | 16.2 | Vertical |
| 4804.0 | 14.4 | 42.4 | 56.8 | 74.0 | 17.2 | Horizontal |
| 7206.0 | 9.5 | 45.1 | 54.6 | 74.0 | 19.4 | Vertical |
| 7206.0 | 6.9 | 46.2 | 53.1 | 74.0 | 20.9 | Horizontal |
| 9608.0 | 6.4 | 48.0 | 54.4 | 74.0 | 19.6 | Vertical |
| 9608.0 | 3.4 | 48.8 | 52.2 | 74.0 | 21.8 | Horizontal |
| 12010.0 | 1.9 | 51.8 | 53.7 | 74.0 | 20.3 | Vertical |
| 12010.0 | -1.1 | 52.4 | 51.3 | 74.0 | 22.7 | Horizontal |

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| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 4804.0 | 1.2 | 41.5 | 42.7 | 54.0 | 11.3 | Vertical |
| 4804.0 | -0.8 | 42.4 | 41.6 | 54.0 | 12.4 | Horizontal |
| 7206.0 | -5.8 | 45.1 | 39.3 | 54.0 | 14.7 | Vertical |
| 7206.0 | -8.2 | 46.2 | 38.0 | 54.0 | 16.0 | Horizontal |
| 9608.0 | -8.7 | 48.0 | 39.3 | 54.0 | 14.7 | Vertical |
| 9608.0 | -11.8 | 48.8 | 37.0 | 54.0 | 17.0 | Horizontal |
| 12010.0 | -13.4 | 51.8 | 38.4 | 54.0 | 15.6 | Vertical |
| 12010.0 | -16.2 | 52.4 | 36.2 | 54.0 | 17.8 | Horizontal |

Result of Tx mode (2440.0 MHz) (GFSK) (Above 1GHz): Pass

| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 4880.0 | 15.7 | 41.6 | 57.3 | 74.0 | 16.7 | Vertical |
| 4880.0 | 14.1 | 42.5 | 56.6 | 74.0 | 17.4 | Horizontal |
| 7320.0 | 1.2 | 53.2 | 54.4 | 74.0 | 19.6 | Vertical |
| 7320.0 | 6.3 | 46.3 | 52.6 | 74.0 | 21.4 | Horizontal |
| 9760.0 | 6.3 | 48.1 | 54.4 | 74.0 | 19.6 | Vertical |
| 9760.0 | 4.7 | 48.9 | 53.6 | 74.0 | 20.4 | Horizontal |
| 12200.0 | 1.6 | 51.6 | 53.2 | 74.0 | 20.8 | Vertical |
| 12200.0 | -0.6 | 52.5 | 51.9 | 74.0 | 22.1 | Horizontal |

| Field Strength of Spurious Emissions | | | | | | |
|--------------------------------------|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 4880.0 | 0.6 | 41.6 | 42.2 | 54.0 | 11.8 | Vertical |
| 4880.0 | -1.1 | 42.5 | 41.4 | 54.0 | 12.6 | Horizontal |
| 7320.0 | -6.1 | 45.2 | 39.1 | 54.0 | 14.9 | Vertical |
| 7320.0 | -8.8 | 46.3 | 37.5 | 54.0 | 16.5 | Horizontal |
| 9760.0 | -8.8 | 48.1 | 39.3 | 54.0 | 14.7 | Vertical |
| 9760.0 | -10.5 | 48.9 | 38.4 | 54.0 | 15.6 | Horizontal |
| 12200.0 | -13.5 | 51.6 | 38.1 | 54.0 | 15.9 | Vertical |
| 12200.0 | -15.7 | 52.5 | 36.8 | 54.0 | 17.2 | Horizontal |

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Result of Tx mode (2480.0 MHz) (GFSK) (Above 1GHz): Pass

| Field Strength of Spurious Emissions Peak Value | | | | | | |
|--|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 4960.0 | 14.4 | 41.4 | 55.8 | 74.0 | 18.2 | Vertical |
| 4960.0 | 11.6 | 42.7 | 54.3 | 74.0 | 19.7 | Horizontal |
| 7440.0 | 8.8 | 45.6 | 54.4 | 74.0 | 19.6 | Vertical |
| 7440.0 | 6.3 | 46.5 | 52.8 | 74.0 | 21.2 | Horizontal |
| 9920.0 | 5.1 | 48.6 | 53.7 | 74.0 | 20.3 | Vertical |
| 9920.0 | 2.2 | 49.7 | 51.9 | 74.0 | 22.1 | Horizontal |
| 12400.0 | 0.6 | 51.7 | 52.3 | 74.0 | 21.7 | Vertical |
| 12400.0 | -1.5 | 52.7 | 51.2 | 74.0 | 22.8 | Horizontal |

| Field Strength of Spurious Emissions Average Value | | | | | | |
|---|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 4960.0 | -0.7 | 41.4 | 40.7 | 54.0 | 13.3 | Vertical |
| 4960.0 | -3.6 | 42.7 | 39.1 | 54.0 | 14.9 | Horizontal |
| 7440.0 | -6.5 | 45.6 | 39.1 | 54.0 | 14.9 | Vertical |
| 7440.0 | -8.8 | 46.5 | 37.7 | 54.0 | 16.3 | Horizontal |
| 9920.0 | -10.0 | 48.6 | 38.6 | 54.0 | 15.4 | Vertical |
| 9920.0 | -13.0 | 49.7 | 36.7 | 54.0 | 17.3 | Horizontal |
| 12400.0 | -14.7 | 51.7 | 37.0 | 54.0 | 17.0 | Vertical |
| 12400.0 | -16.6 | 52.7 | 36.1 | 54.0 | 17.9 | Horizontal |

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz
* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement (9kHz-30MHz): 3.3dB
uncertainty (30MHz -1GHz): 4.6dB
(1GHz -26GHz): 4.4dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

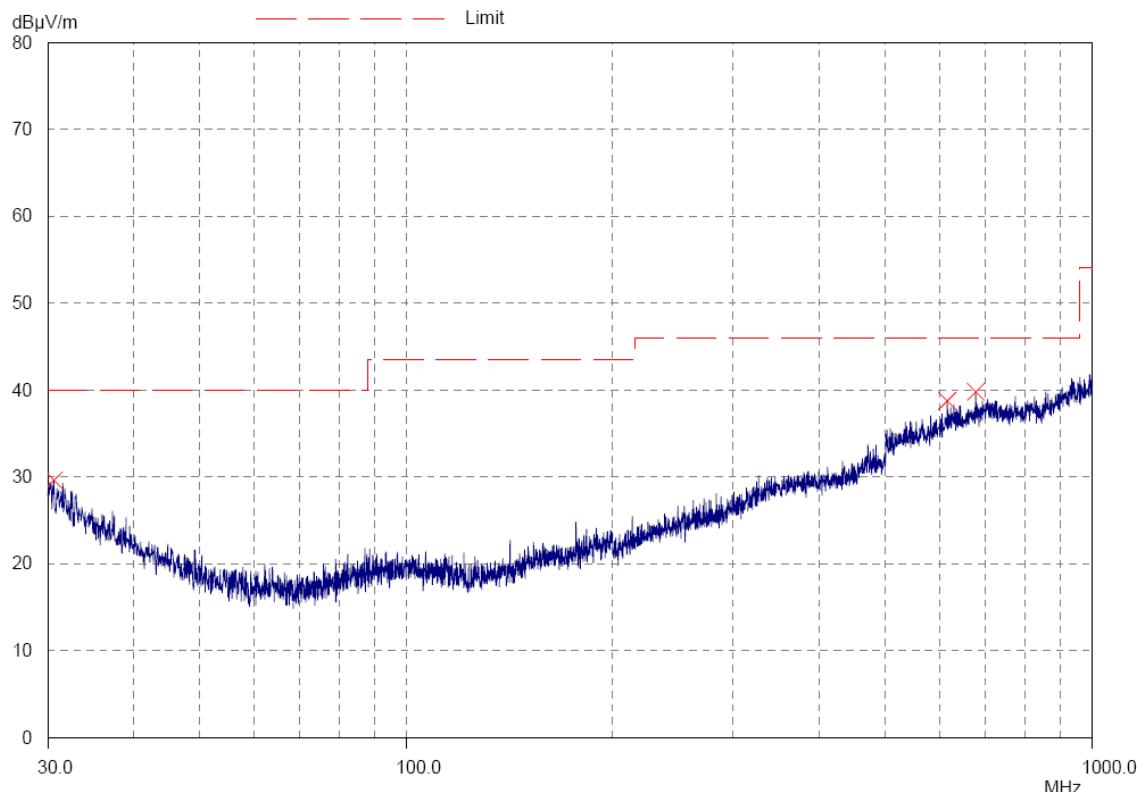
| Frequency Range [MHz] | Quasi-Peak Limits [μ V/m] |
|--------------------------|-----------------------------------|
| 0.009-0.490 | 2400/F (kHz) |
| 0.490-1.705 | 24000/F (kHz) |
| 1.705-30 | 30 |
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above 960 | 500 |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of Bluetooth Communication mode (30MHz – 1GHz): Pass

Please refer to the following table for result details

Horizontal



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Result of Bluetooth Communication mode (30MHz – 1GHz): Pass

| Radiated Emissions Quasi-Peak | | | | | |
|--|-----------------------------|--|--|--|--|
| Emission Frequency MHz | E-Field Polarity | Level @3m dBμV/m | Limit @3m dBμV/m | Level @3m μV/m | Limit @3m μV/m |
| 30.6 | Horizontal | 29.5 | 40.0 | 29.9 | 100 |
| 615.4 | Horizontal | 38.6 | 46.0 | 85.1 | 200 |
| 677.8 | Horizontal | 37.3 | 46.0 | 73.3 | 200 |

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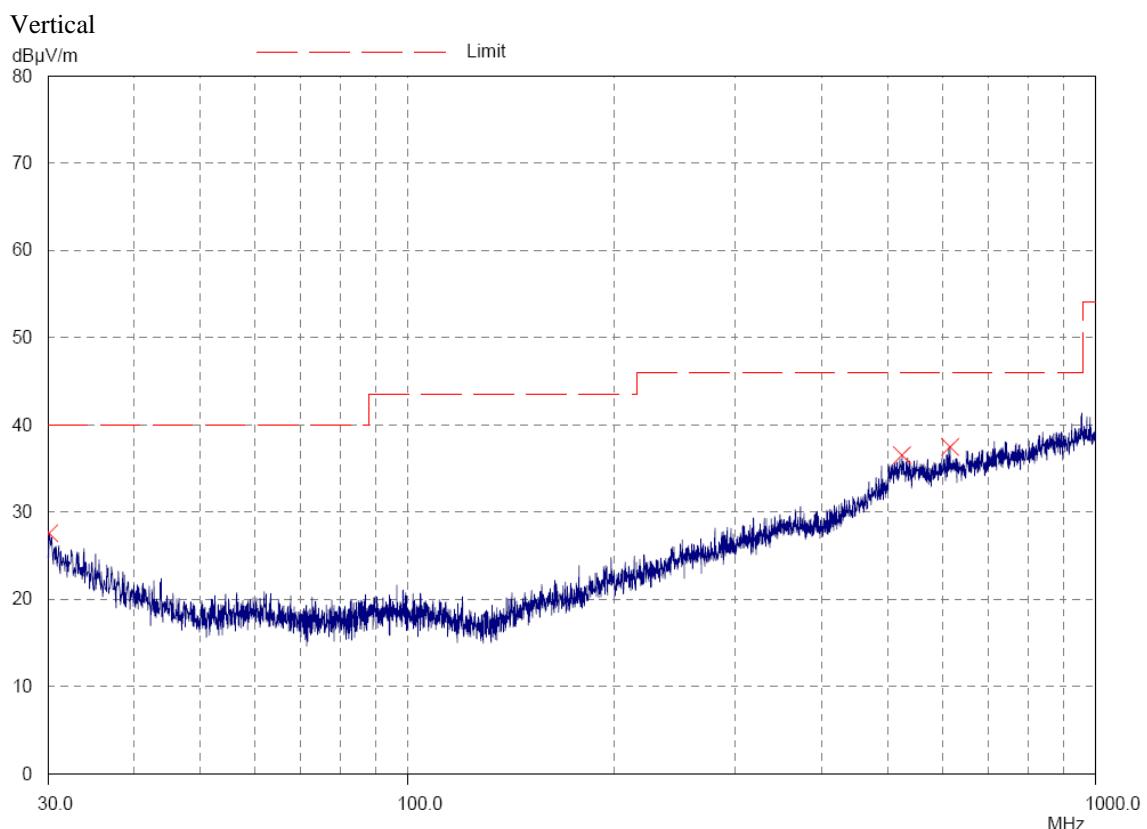
Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

| Frequency Range [MHz] | Quasi-Peak Limits [μ V/m] |
|--------------------------|-----------------------------------|
| 0.009-0.490 | 2400/F (kHz) |
| 0.490-1.705 | 24000/F (kHz) |
| 1.705-30 | 30 |
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above960 | 500 |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of Bluetooth Communication mode (30MHz – 1GHz): Pass

Please refer to the following table for result details



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Result of Bluetooth Communication mode (30MHz – 1GHz): Pass

| Radiated Emissions Quasi-Peak | | | | | |
|--|-----------------------------|--|--|--|--|
| Emission Frequency MHz | E-Field Polarity | Level @3m dBμV/m | Limit @3m dBμV/m | Level @3m μV/m | Limit @3m μV/m |
| 30.1 | Vertical | 27.5 | 40.0 | 23.7 | 100 |
| 523.7 | Vertical | 36.4 | 46.0 | 66.1 | 200 |
| 615.7 | Vertical | 36.7 | 46.0 | 68.4 | 200 |

Remarks:

Calculated measurement uncertainty (30MHz – 1GHz): 4.6dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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3.1.3 Power Spectral Density

Test Requirement: FCC 47CFR 15.247(e)
Test Method: FCC KDB Publication 558074 D01 DTS Meas Guidance v02
Test Date: 2015-06-10
Mode of Operation: Bluetooth 4.0 Tx mode

Test Method:

The RF output of the EUT was connected to the spectrum analyzer. Set the fundamental frequency as the center frequency of the spectral analyzer. Use RBW=3kHz , VBW= 10KHz , Set the span to 1.5 times the DTS channel bandwidth. Detector = peak, Sweep time = auto couple , Trace mode = max hold. Measure the Power Spectral Density (PSD) and record the results in dBm.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

Test Limit:

The maximum power spectral density (PSD) shall not exceeded 8dBm in any 3kHz band.

Results of BT 4.0 Mode (Tx:2402MHz to 2480MHz) : Pass (TX Unit)

Maximum power spectral density

| Transmitter Frequency (MHz) | Maximum Power spectral density level / 3kHz band (dBm) | Maximum Power spectral density / 3kHz band limit (dBm) |
|------------------------------------|---|---|
| 2402.0 | -16.39 | 8 |
| 2440.0 | -15.98 | 8 |
| 2480.0 | -17.35 | 8 |

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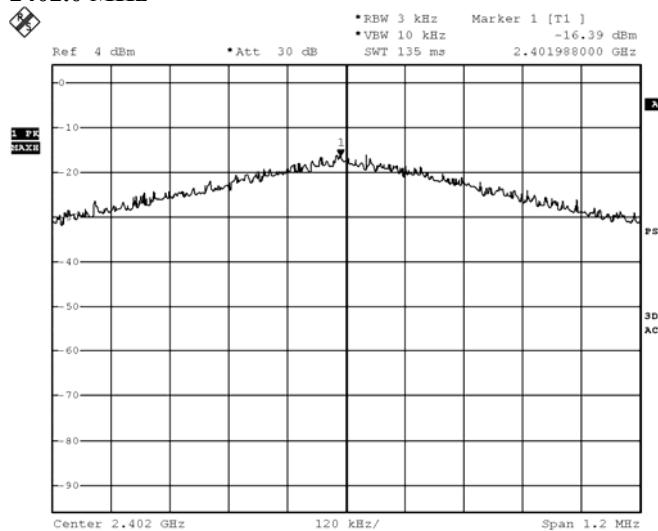
Date: 2015-06-11

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Bluetooth 4.0 mode (Tx: 2402MHz to 2480MHz)

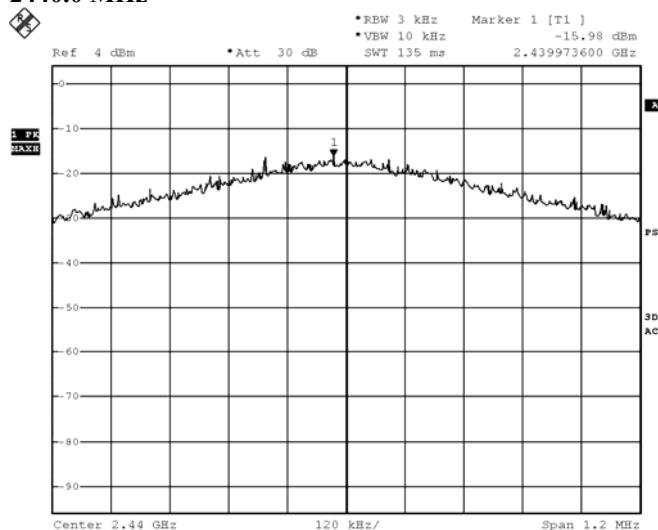
2402.0 MHz



BMP

Date: 10.JUN.2015 13:35:09

2440.0 MHz



BMP

Date: 10.JUN.2015 13:37:50

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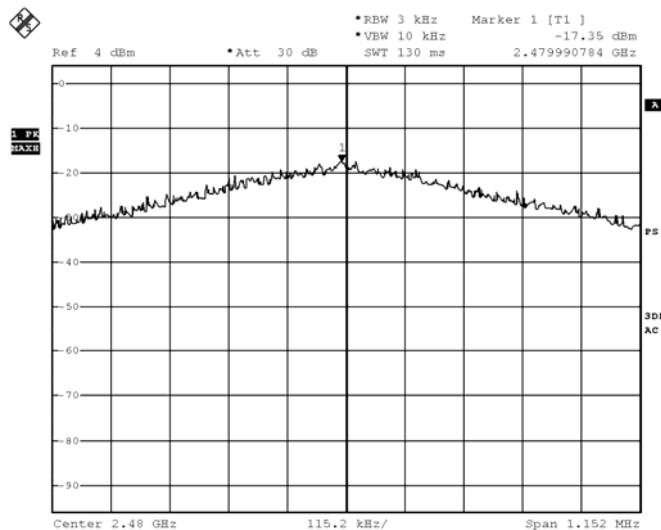
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No.: DM119758

2480.0 MHz



BMP

Date: 10.JUN.2015 13:31:23

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3.1.4 6dB Bandwidth Measurement

Test Requirement: FCC 47CFR 15.247(a)(2)
Test Method: FCC KDB Publication 558074 D01 DTS Meas Guidance v02
Test Date: 2015-06-07
Mode of Operation: Bluetooth 4.0 Tx mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. 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.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

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Date: 2015-06-11

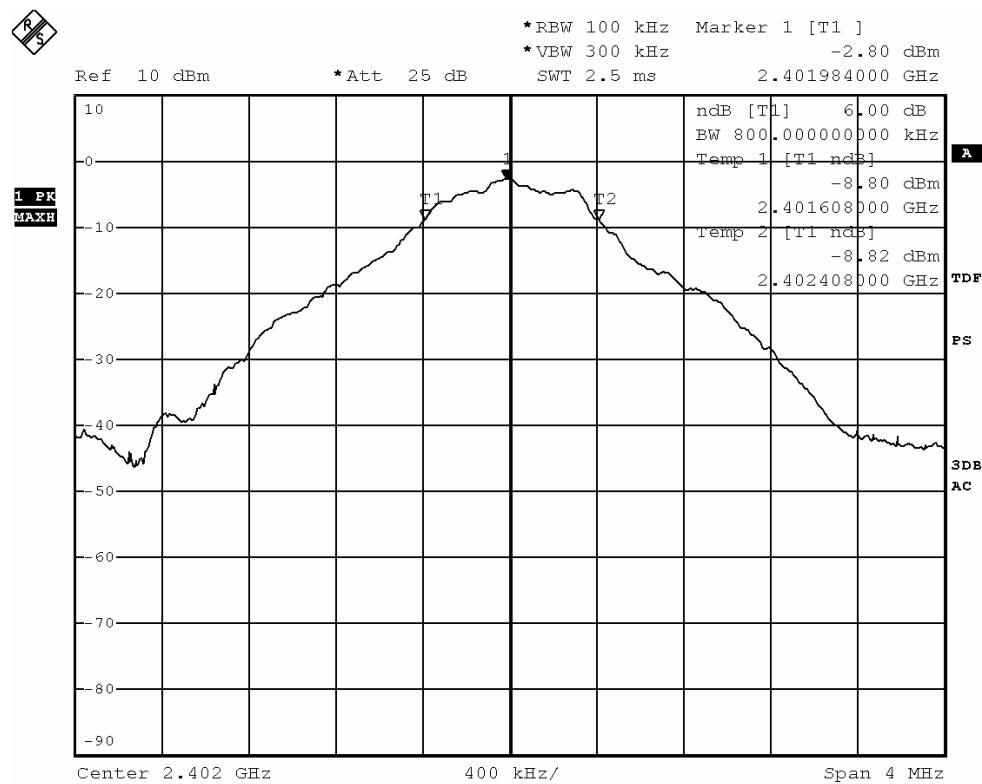
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No.: DM119758

Limits for 6dB Bandwidth Measurement:

| Center Frequency [MHz] | 6dB Bandwidth [kHz] | FCC Limits [kHz] |
|---------------------------|------------------------|---------------------|
| 2402.0 | 800.0 | > 500 |

6 dB Bandwidth Plot on Configuration BT 4.0 (GFSK: 2402MHz)



BMP

Date: 7.JUN.2015 16:29:39

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Date: 2015-06-11

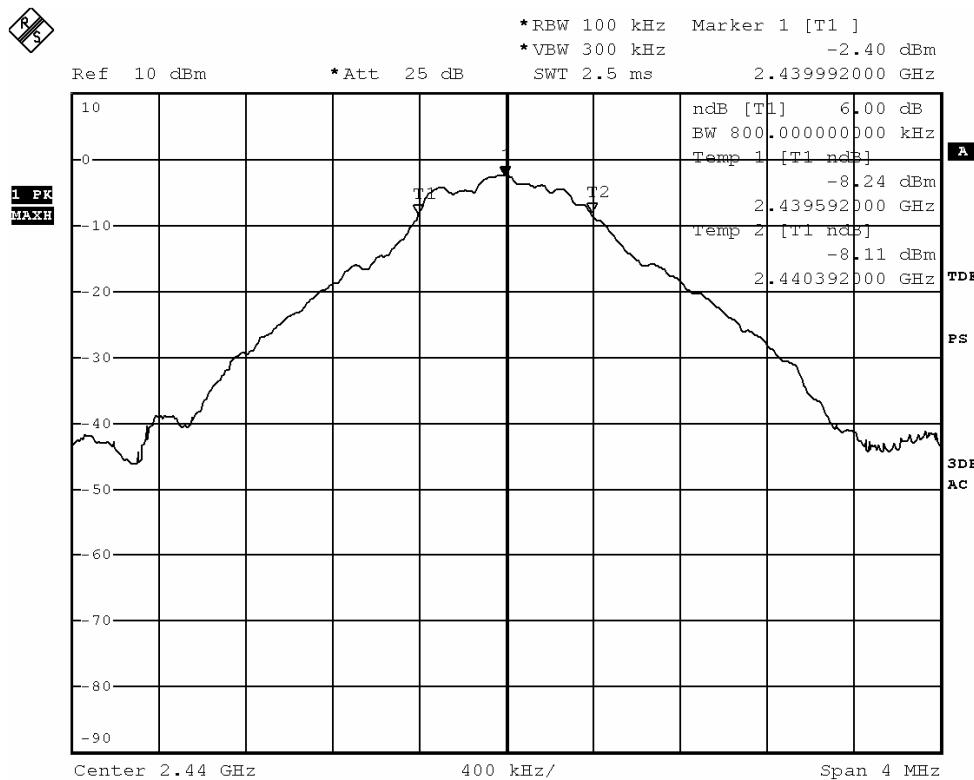
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No.: DM119758

Limits for 6dB Bandwidth Measurement:

| Center Frequency [MHz] | 6dB Bandwidth [kHz] | FCC Limits [kHz] |
|---------------------------|------------------------|---------------------|
| 2440.0 | 800.0 | > 500 |

6 dB Bandwidth Plot on Configuration BT 4.0 (GFSK: 2440MHz)



BMP

Date: 7.JUN.2015 16:30:40

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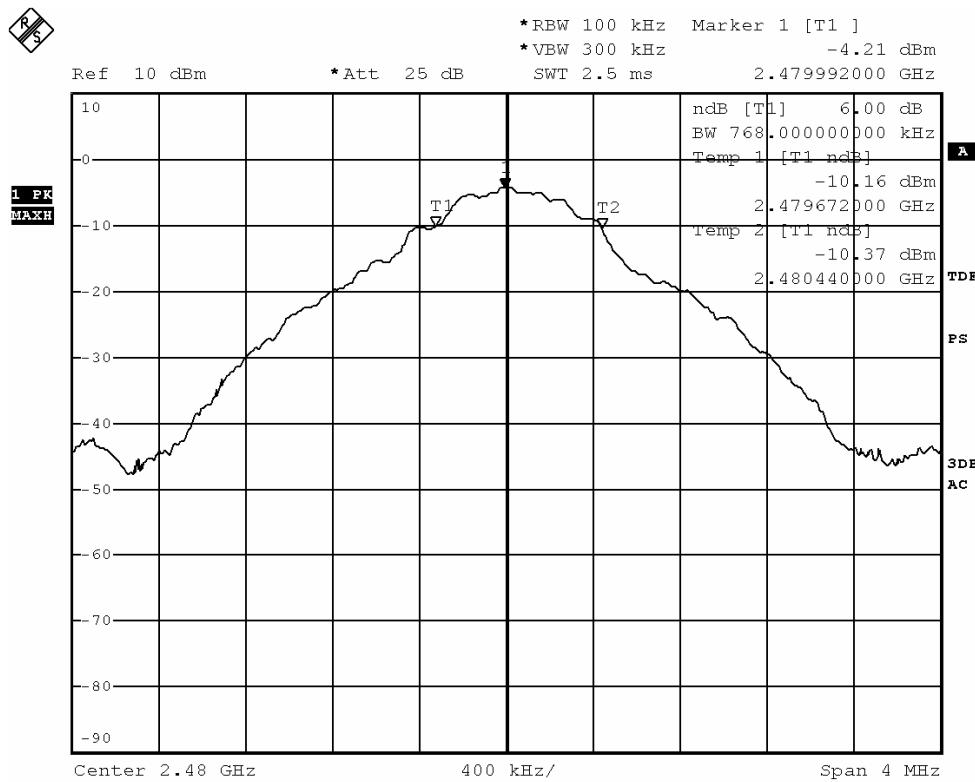
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Limits for 6dB Bandwidth Measurement:

| Center Frequency [MHz] | 6dB Bandwidth [kHz] | FCC Limits [kHz] |
|---------------------------|------------------------|---------------------|
| 2480.0 | 768.0 | > 500 |

6 dB Bandwidth Plot on Configuration BT 4.0 (GFSK: 2480MHz)



BMP

Date: 7.JUN.2015 16:31:52

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3.1.5 Band Edges Measurement

| | |
|--------------------|--|
| Test Requirement: | FCC 47CFR 15.247 |
| Test Method: | FCC KDB Publication 558074 D01 DTS Meas Guidance v02 |
| Test Date: | 2015-06-07 |
| Mode of Operation: | Bluetooth 4.0 Tx mode |

Test Method:

The band edge is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. The RBW and VBW are set to 100kHz for this measurement.

Test Setup:

As Test Setup of clause 3.1.2 in this test report.

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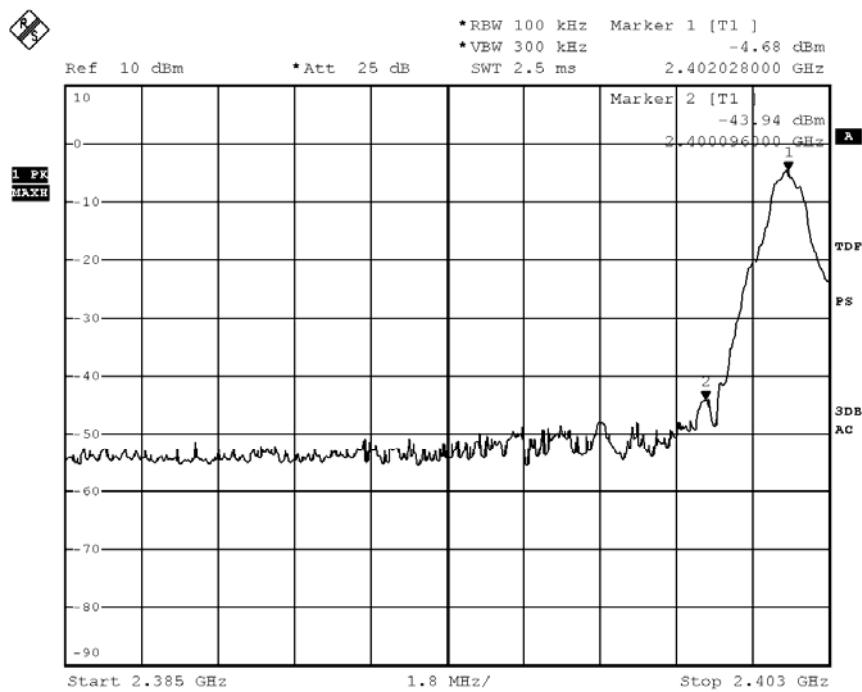
Band-edge Compliance of RF Conducted Emissions Measurement:

Limit :

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. Attenuation below the general limits specified in Section 15.209(a) is not required.

| Frequency Range [MHz] | Radiated Emission Attenuated below the Fundamental [dB] |
|----------------------------------|---|
| 2400 – Lowest Fundamental (2402) | 39.26 |

Band-edge Compliance of RF Conducted Emissions – Lowest (GFSK: Bluetooth DTS mode 2402MHz)



BMP

Date: 7.JUN.2015 16:38:13

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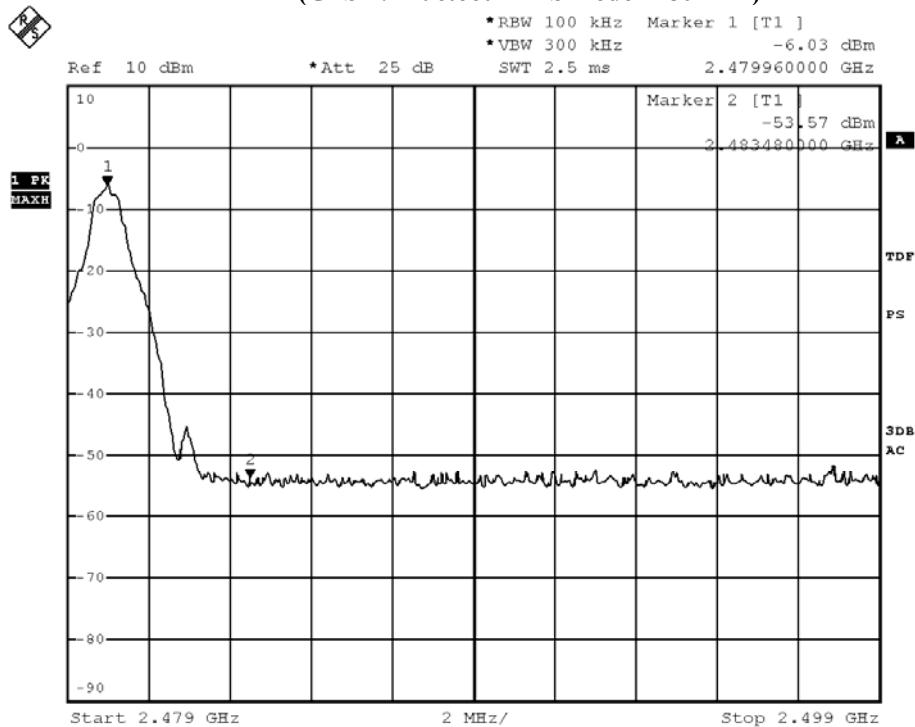
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Band-edge Compliance of RF Conducted Emissions Measurement:

| Frequency Range [MHz] | Radiated Emission Attenuated below the Fundamental [dB] |
|-------------------------------------|---|
| 2483.5 - Highest Fundamental (2480) | 47.54 |

Band-edge Compliance of RF Conducted Emissions – Highest (GFSK: Bluetooth DTS mode 2480MHz)



BMP

Date: 7.JUN.2015 16:40:30

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Band-edge Compliance of RF Radiated Emissions Measurement:

Limit :

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. 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 5.205(c)).

Result: Band-edge Compliance of RF Radiated Emissions (Lowest)

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 2390.0 | 14.5 | 36.8 | 51.3 | 74.0 | 22.7 | Vertical |

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 2390.0 | -0.6 | 36.8 | 36.2 | 54.0 | 17.8 | Vertical |

Result: Band-edge Compliance of RF Radiated Emissions (Highest)

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 2483.5 | 4.9 | 36.8 | 41.7 | 74.0 | 32.3 | Vertical |

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 2483.5 | -10.4 | 36.8 | 26.4 | 54.0 | 27.6 | Vertical |

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3.1.6 Antenna Requirement

Test Requirements: § 15.203

Test Specification:

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.

Test Results:

This is Meander line antenna. There is no external antenna, the antenna gain = -2.1dBi.
All component install on inside of EUT. User unable to remove or changed the Antenna.

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3.1.7 RF Exposure

Test Requirement: FCC 47CFR 15.247(i)
Test Date: 2015-06-10
Mode of Operation: BT mode

Test Results:

RF Exposure Evaluation

The Maximum conducted output power = 0.380 mW (at frequency = 2.440 GHz)

It's Conducted source-based time-averaging output power = 0.371 mW (at frequency = 2.440 GHz)

Since the SAR test exclusion thresholds for 2450MHz at test separation distances ≤ 5 mm = 10mW and the Conducted source-based time-averaging output power is less than 10mW.

Therefore, the SAR evaluation can be exempted.

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Appendix A

List of Measurement Equipment

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL | DUE CAL |
|---------|--|---------------------------|-------------------|----------------|------------|------------|
| EMD004 | LISN | ROHDE & SCHWARZ | ESH3-Z5 | 100102 | 2015.3.24 | 2016.3.24 |
| EMD022 | EMI Test Receiver | ROHDE & SCHWARZ | ESCS30 | 100314 | 2015.3.24 | 2016.3.24 |
| EMD035 | EMI Test Receiver | ROHDE & SCHWARZ | ESCI | 100441 | 2014.06.10 | 2015.06.10 |
| EMD036 | EMI Test Receiver | ROHDE & SCHWARZ | ESIB 26 | 100388 | 2014.06.10 | 2015.06.10 |
| EMD041 | TWO-LINE V-NETWORK | ROHDE & SCHWARZ | ENV216 | 100261 | 2015.3.24 | 2016.3.24 |
| EMD061 | Biconilog Antenna | ETS.LINDGREN | 3142C | 00060439 | 2014.11.29 | 2016.11.29 |
| EMD062 | Double-Ridged Waveguide (1GHz – 18GHz) | ETS.LINDGREN | 3117 | 00075933 | 2014.11.15 | 2015.11.15 |
| EMD084 | MULTI-DVICE CONTROLLER | ETS.LINDGREN | 2090 | 00060107 | N/A | N/A |
| EMD088 | Video Contol Unit | ETS.LINDGREN | Y21953A | 2601073 | N/A | N/A |
| EMD093 | Monitor | ViewSonic | VA9036 | Q8X064201876 | N/A | N/A |
| EMD102 | Intelligent Frequency | Ainuo Instrument Co., Ltd | AN97005SS | 79707454 | N/A | N/A |
| EMD103 | Intelligent Frequency | Ainuo Instrument Co., Ltd | AN97005SS | 79707455 | N/A | N/A |
| EMD105 | FACT-3 EMC Chamber | ETS.LINDGREN | FACT-3 | 3803 | N/A | N/A |
| EMD106 | Shielding Room #1 | ETS.LINDGREN | RFD-100 | 3802 | N/A | N/A |
| EMD111 | Power meter | ROHDE & SCHWARZ | NRVD | 102051 | 2015.3.24 | 2016.3.24 |
| | 100V Insertion Unit | ROHDE & SCHWARZ | URV5-Z4 | 100464 | 2015.3.24 | 2016.3.24 |
| EMD113 | Pre-Amplifier | ROHDE & SCHWARZ | N/A | 1129588 | 2015.3.24 | 2016.3.24 |
| EMD124 | Loop Antenna | ETS-Lindgren | 6502 | 00104905 | 2014.04.28 | 2016.04.28 |
| EMD131 | Standard Gain Horn Antenna (18GHz – 26.5GHz) | Chengdu AINFO Inc. | JXTXLB-42-15-C-KF | J2021100721001 | 2015.04.09 | 2017.04.09 |

Remarks:-

N/A Not Applicable or Not Available

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Appendix B

Photographs of EUT

Top View of the product



Bottom View of the product



Inside View of the product



Inside View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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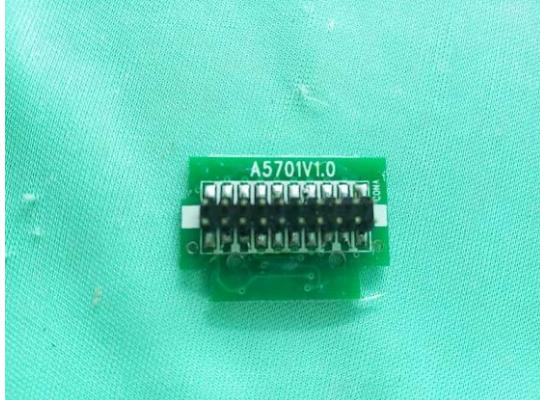
Date: 2015-06-11

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Photographs of EUT

Inner Circuit Top View



Inner Circuit Bottom View



Inner Circuit Top View



Inner Circuit Bottom View



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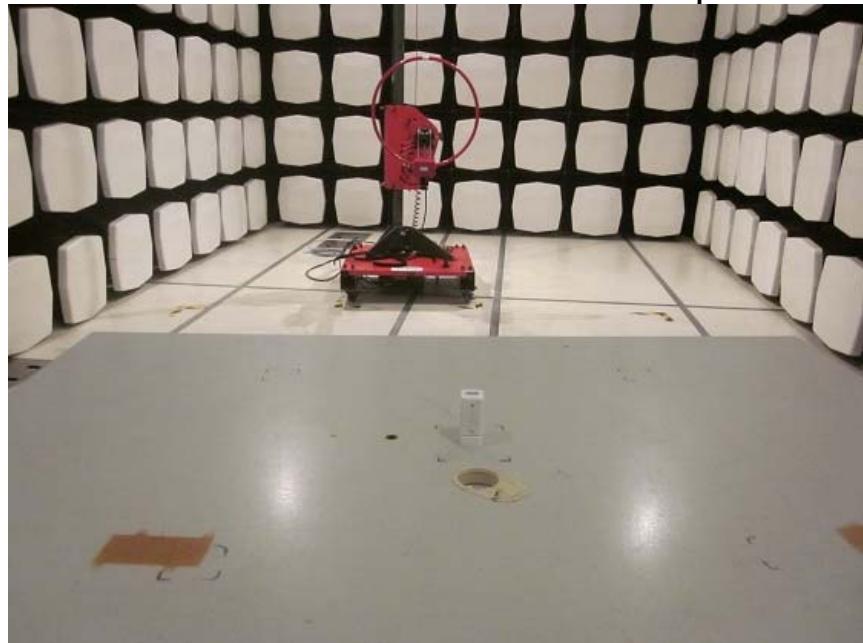
Date: 2015-06-11

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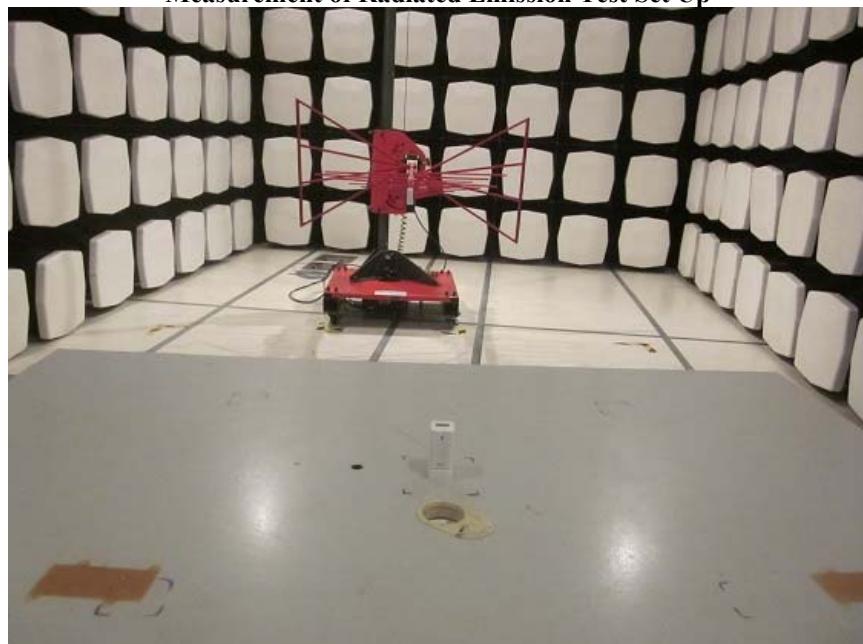
No.: DM119758

Photographs of EUT

Measurement of Radiated Emission Test Set Up



Measurement of Radiated Emission Test Set Up



STC (Dongguan) Company Limited

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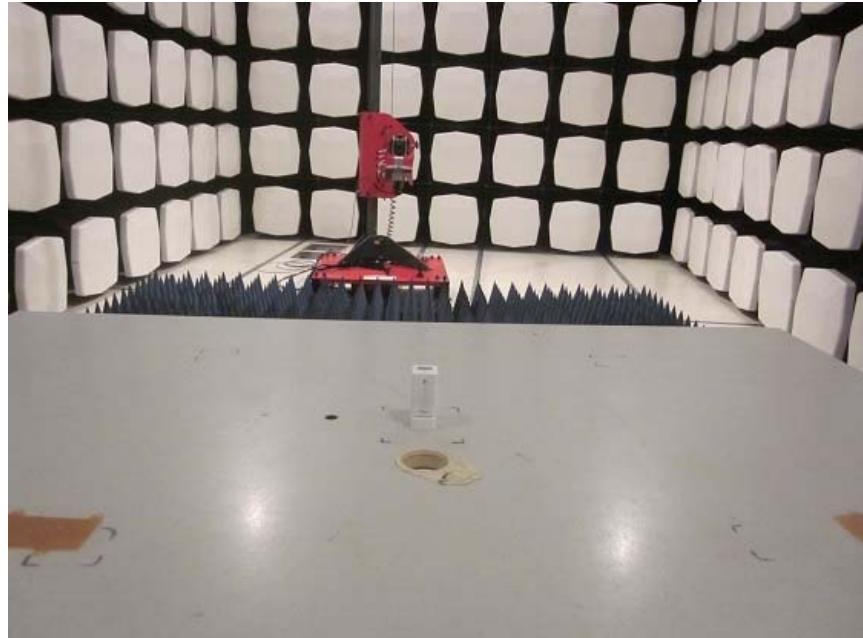
Date: 2015-06-11

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Photographs of EUT

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******* End of Test Report *******

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