



STC Test Report

Date: 2016-02-23

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No.: DM122384

Applicant:

XT FLYER LIMITED
A ON 5/F WAH HEN COMM CTR NOS. 381-383
HENNESSY RD WANCHAI HONG KONG

Manufacturer:

XT FLYER LIMITED
A ON 5/F WAH HEN COMM CTR NOS. 381-383
HENNESSY RD WANCHAI HONG KONG

Description of Sample(s):

Submitted sample(s) said to be
Product: XT FLYER
Brand Name: XT FLYER
Model Number: XT 001A
FCC ID: 2AHGLXT5180011

Date Sample(s) Received: 2016-01-26

Date Tested: 2016-01-29 to 2016-02-19

Investigation Requested:

Perform ElectroMagnetic Interference measurement in
accordance with FCC 47CFR [Codes of Federal Regulations]
Part 15: 2015 and ANSI C63.10: 2013 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 Equipment Under Test [EUT] Description of Sample(s)

| | |
|---------------|--|
| Product: | XT FLYER |
| Manufacturer: | XT FLYER LIMITED |
| | A ON 5/F WAH HEN COMM CTR NOS. 381-383 |
| | HENNESSY RD WANCHAI HONG KONG |
| Brand Name: | XT FLYER |
| Model Number: | XT 001A |
| Rating: | 9Vd.c. (AA*6 battery) |

1.2 Description of EUT Operation

The Equipment Under Test (EUT) is a XT FLYER. It is a transceiver operating at 2405MHz~2475MHz and the RF signal was modulated by IC.

1.3 Date of Order

2016-01-26

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2016-01-29 to 2016-02-19

1.6 Country of Origin

China

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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: 2015 Regulations and ANSI C63.10: 2013 for FCC Certification.

2.2 Test Standards and Results Summary Tables

| EMISSION Results Summary | | | | | |
|---|------------------|-------------------|-------------|-------------------------------------|--------------------------|
| Test Condition | Test Requirement | Test Method | Test Result | | |
| | | | Pass | Fail | N/A |
| Field Strength of Fundamental & Harmonics Emissions | FCC 47CFR 15.249 | ANSI C63.10: 2013 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emissions | FCC 47CFR 15.209 | ANSI C63.10: 2013 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

| | |
|--------------------|-------------------------------------|
| Test Requirement: | FCC 47CFR 15.249 & FCC 47CFR 15.209 |
| Test Method: | ANSI C63.10: 2013 |
| Test Date: | 2016-01-29 |
| Mode of Operation: | TX mode |

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m 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, 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 STC (Dongguan) Company Ltd. 68 Fumin Nan Road, Dalang, Dongguan, Guangdong, PRC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 629686.

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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)

RBW: 10kHz
VBW: 30kHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

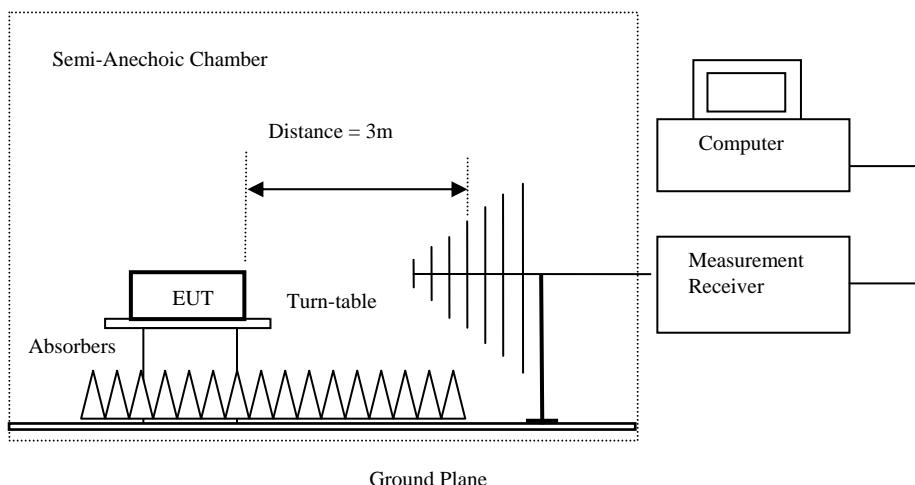
30MHz – 1GHz (QP)

RBW: 120kHz
VBW: 120kHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

Above 1GHz (Pk & Av)

RBW: 1MHz
VBW: 1MHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

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 Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

| Frequency Range of Fundamental [MHz] | Field Strength of Fundamental Emission [microvolts/meter] | Field Strength of Harmonics Emission [microvolts/meter] |
|---|--|--|
| 902-928 | 50,000 [Quasi-Peak] | 500 [Average] |
| 2400-2483.5 | 50,000 [Average] | 500 [Average] |

Results of Tx mode (Lowest Frequency Channel-2405 MHz): Pass

| Field Strength of Fundamental Emissions Peak Value | | | | | | |
|---|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 2405.00 | 43.1 | 36.8 | 79.9 | 9,885.5 | 500,000 | Vertical |

| Field Strength of Fundamental Emissions Average Value | | | | | | |
|--|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 2405.00 | 33.6 | 36.8 | 70.4 | 3,311.3 | 50,000 | Vertical |

| Field Strength of Harmonics Emission Peak Value | | | | | | |
|--|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 4810.0 | 11.3 | 41.5 | 52.8 | 436.5 | 5,000 | Vertical |
| 7215.0 | 6.2 | 47.5 | 53.7 | 484.2 | 5,000 | Vertical |
| 9620.0 | 3.7 | 49.7 | 53.4 | 467.7 | 5,000 | Vertical |
| 12025.0 | 2.4 | 51.8 | 54.2 | 512.9 | 5,000 | Vertical |

| Field Strength of Harmonics Emission Average Value | | | | | | |
|---|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 4810.0 | -2.6 | 41.5 | 38.9 | 88.1 | 500 | Vertical |
| 7215.0 | -8.8 | 47.5 | 38.7 | 86.1 | 500 | Vertical |
| 9620.0 | -11.6 | 49.7 | 38.1 | 80.4 | 500 | Vertical |
| 12025.0 | -13.9 | 51.8 | 37.9 | 78.5 | 500 | Vertical |

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Results of Tx mode (Middle Frequency Channel- 2445MHz): Pass

| Field Strength of Fundamental Emissions | | | | | | |
|---|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 2445.00 | 44.2 | 36.9 | 81.1 | 11,350.1 | 500,000 | Vertical |

| Field Strength of Fundamental Emissions | | | | | | |
|---|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 2445.00 | 35.0 | 36.9 | 71.9 | 3,935.5 | 50,000 | Vertical |

| Field Strength of Harmonics Emission | | | | | | |
|--------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 4890.0 | 10.9 | 41.5 | 52.4 | 416.9 | 5,000 | Vertical |
| 7335.0 | 5.2 | 47.6 | 52.8 | 436.5 | 5,000 | Vertical |
| 9780.0 | 3.7 | 49.7 | 53.4 | 467.7 | 5,000 | Vertical |
| 12225.0 | 1.4 | 51.8 | 53.2 | 457.1 | 5,000 | Vertical |

| Field Strength of Harmonics Emission | | | | | | |
|--------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 4890.0 | -4.1 | 41.5 | 37.4 | 74.1 | 500 | Vertical |
| 7335.0 | -9.6 | 47.6 | 38.0 | 79.4 | 500 | Vertical |
| 9780.0 | -12.0 | 49.7 | 37.7 | 76.7 | 500 | Vertical |
| 12225.0 | -14.3 | 51.8 | 37.5 | 75.0 | 500 | Vertical |

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Results of Tx mode (Highest Frequency Channel – 2475MHz): Pass

| Field Strength of Fundamental Emissions | | | | | | |
|---|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 2475.00 | 44.5 | 36.9 | 81.4 | 11,749.0 | 500,000 | Vertical |

| Field Strength of Fundamental Emissions | | | | | | |
|---|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 2475.00 | 35.2 | 36.9 | 72.1 | 4,027.2 | 50,000 | Vertical |

| Field Strength of Harmonics Emission | | | | | | |
|--------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 4950.0 | 11.5 | 41.6 | 53.1 | 451.9 | 5,000 | Vertical |
| 7425.0 | 4.7 | 47.8 | 52.5 | 421.7 | 5,000 | Vertical |
| 9900.0 | 3.1 | 49.8 | 52.9 | 441.6 | 5,000 | Vertical |
| 12375.0 | 0.7 | 51.9 | 52.6 | 426.6 | 5,000 | Vertical |

| Field Strength of Harmonics Emission | | | | | | |
|--------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Avarage Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 4950.0 | -3.9 | 41.6 | 37.7 | 76.7 | 500 | Vertical |
| 7425.0 | -10.0 | 47.8 | 37.8 | 77.6 | 500 | Vertical |
| 9900.0 | -11.3 | 49.8 | 38.5 | 84.1 | 500 | Vertical |
| 12375.0 | -12.8 | 51.9 | 39.1 | 90.2 | 500 | Vertical |

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz
Calculated measurement uncertainty (9kHz - 30MHz): 3.3dB
(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 |
| 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.

Results of TX mode (9kHz – 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

Results of TX mode (30MHz – 1GHz): PASS

| Radiated Emissions Quasi-Peak | | | | | |
|----------------------------------|---------------------|------------------------------|------------------------------|---------------------------|---------------------------|
| Emission Frequency MHz | E-Field Polarity | Level @3m dB μ V/m | Limit @3m dB μ V/m | Level @3m μ V/m | Limit @3m μ V/m |
| 30.1 | Vertical | 30.5 | 46.0 | 33.5 | 100 |
| 614.4 | Vertical | 37.9 | 46.0 | 78.5 | 200 |
| 730.1 | Horizontal | 38.6 | 46.0 | 85.1 | 200 |
| 833.3 | Horizontal | 38.8 | 46.0 | 87.1 | 200 |

Remarks:

Calculated measurement uncertainty (9kHz - 30MHz): 3.3dB
(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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3.2 20dB Bandwidth of Fundamental Emission

| | |
|--------------------|-------------------|
| Test Requirement: | FCC 47 CFR 15.249 |
| Test Method: | ANSI C63.10: 2013 |
| Test Date: | 2016-02-19 |
| Mode of Operation: | 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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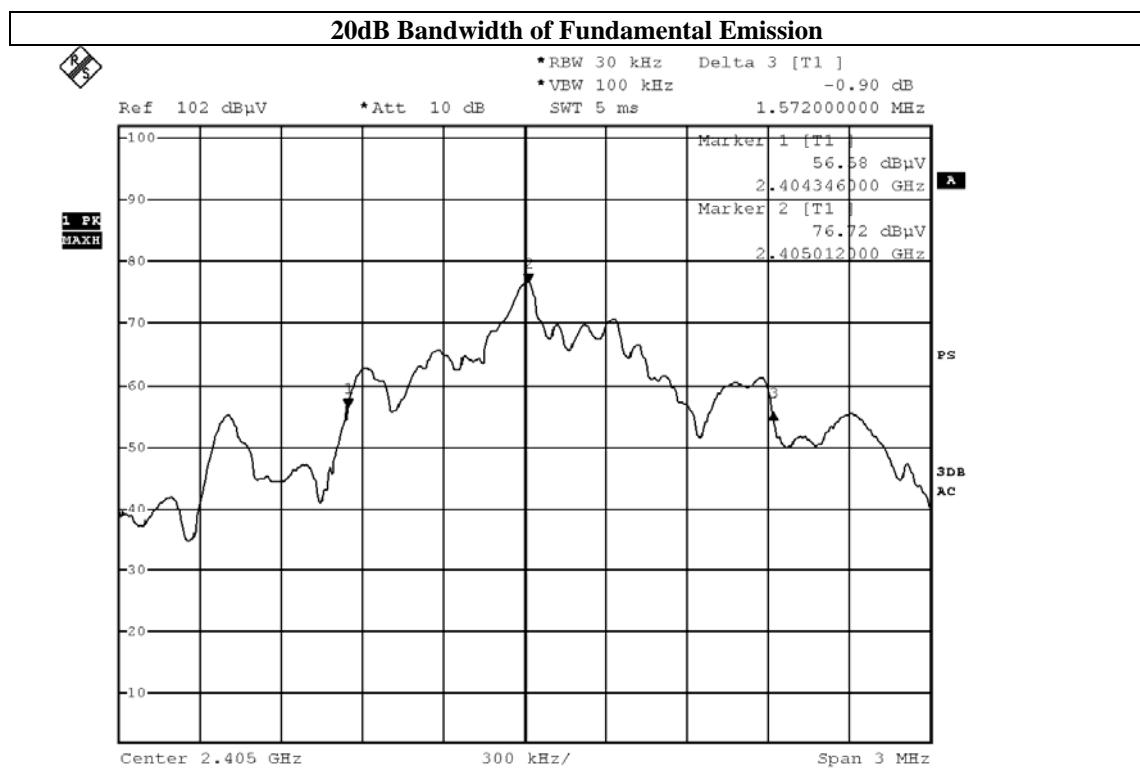
Date: 2016-02-23

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Limits for 20dB Bandwidth of Fundamental Emission (Low Frequency Channel):

| Frequency Range [MHz] | 20dB Bandwidth [MHz] |
|--------------------------|-------------------------|
| 2405 | 1.572 |



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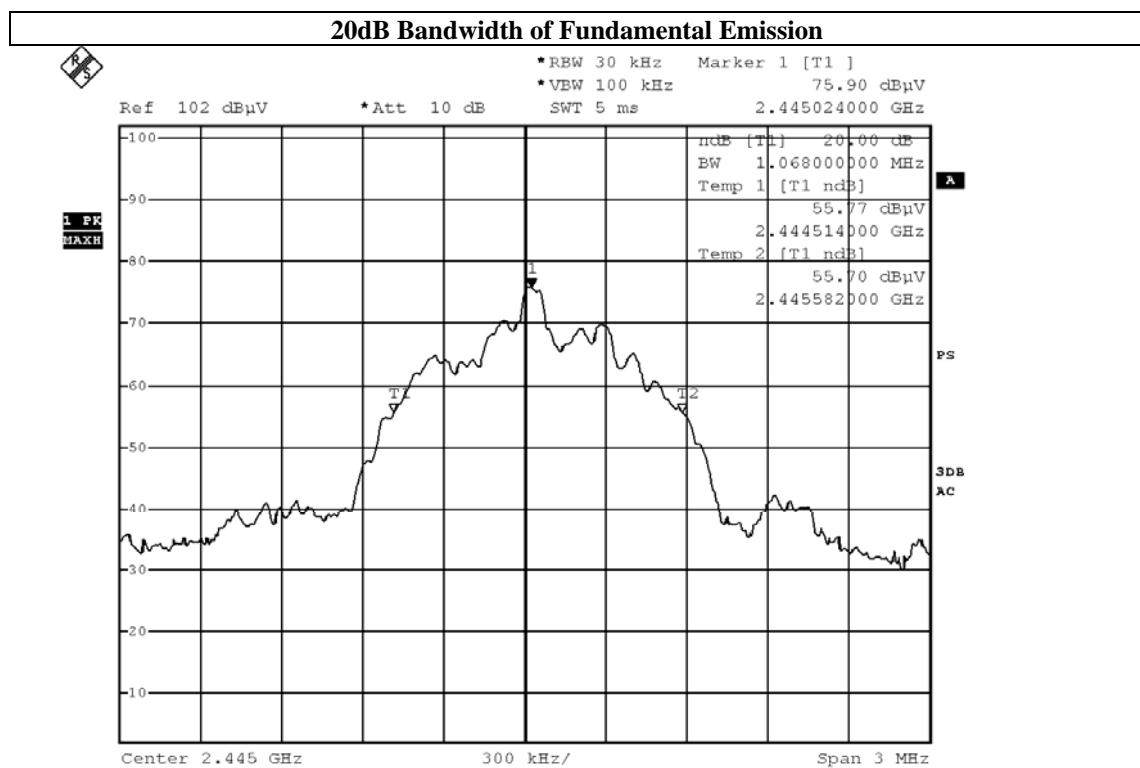
Date: 2016-02-23

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Limits for 20dB Bandwidth of Fundamental Emission (Middle Frequency Channel):

| Frequency Range [MHz] | 20dB Bandwidth [MHz] |
|--------------------------|-------------------------|
| 2445 | 1.068 |



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Date: 22.FEB.2016 14:00:38

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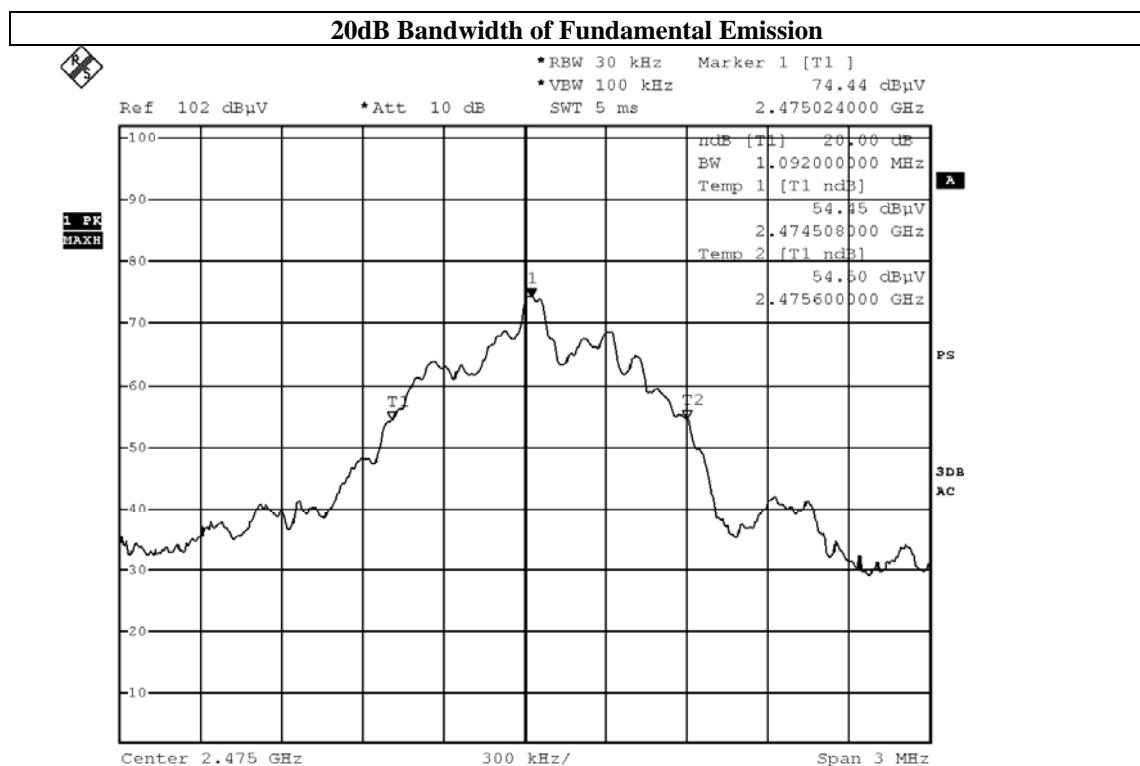
Date: 2016-02-23

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Limits for 20dB Bandwidth of Fundamental Emission (High Frequency Channel):

| Frequency Range [MHz] | 20dB Bandwidth [MHz] |
|--------------------------|-------------------------|
| 2475 | 1.092 |



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RF Radiated Emissions Measurement:

Limit :

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Result: RF Radiated Emissions (1GHz-26GHz) (worse data) (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 |
| 2391.0 | 13.9 | 36.8 | 50.7 | 74.0 | 23.3 | 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 |
| 2391.0 | 2.6 | 36.8 | 39.4 | 54.0 | 14.6 | Vertical |

Result: RF Radiated Emissions (1GHz-26GHz) (worse data) (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 |
| 2485.6 | 12.7 | 36.8 | 49.5 | 74.0 | 24.5 | 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 |
| 2485.6 | 2.0 | 36.8 | 38.8 | 54.0 | 15.3 | Vertical |

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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 | 2015.3.24 | 2016.3.24 |
| EMD036 | EMI Test Receiver | ROHDE & SCHWARZ | ESIB 26 | 100388 | 2015.3.24 | 2016.3.24 |
| 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 | 2016.11.15 |
| EMD084 | MULTI-DVICE CONTROLLER | ETS.LINDGREN | 2090 | 00060107 | N/A | N/A |
| EMD088 | Video Control 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 |
| | 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 | 2013.04.09 | 2016.04.09 |

Remarks:-

N/A Not Applicable or Not Available

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Appendix B

Photographs of EUT

Front View of the product



Rear View of the product



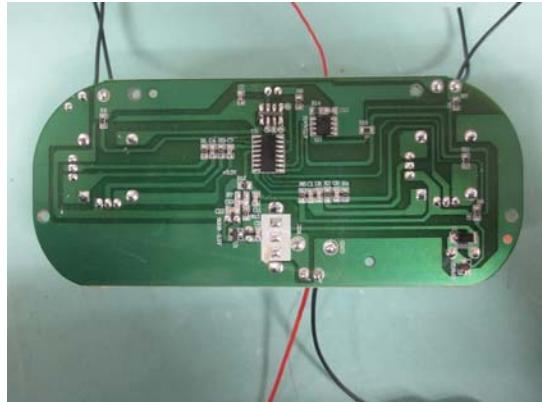
Inside View of the product



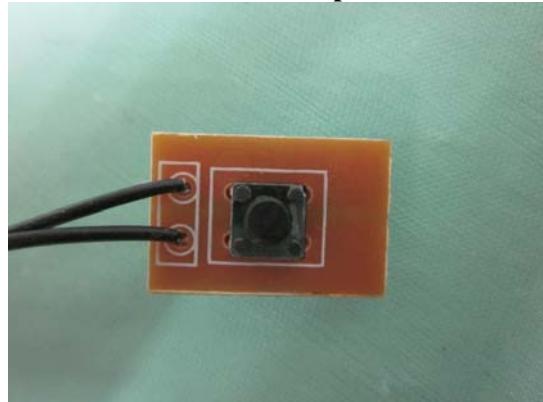
Inner Circuit Top View



Inner Circuit Bottom View



Inner Circuit Top View



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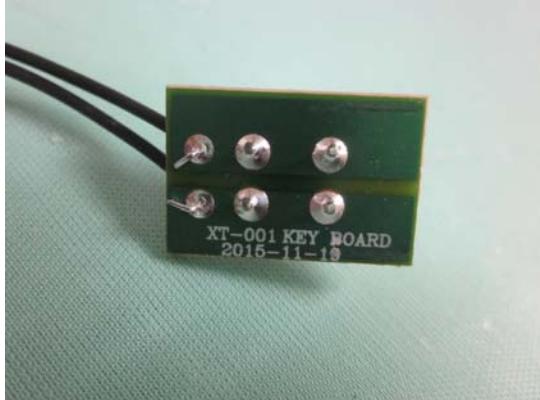
Date: 2016-02-23

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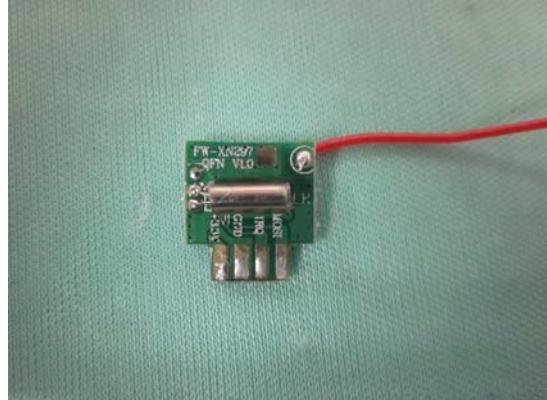
No.: DM122384

Photographs of EUT

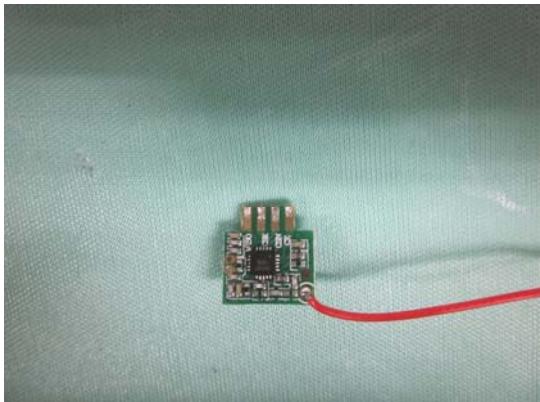
Inner Circuit Bottom View



Inner Circuit Top View



Inner Circuit Bottom View



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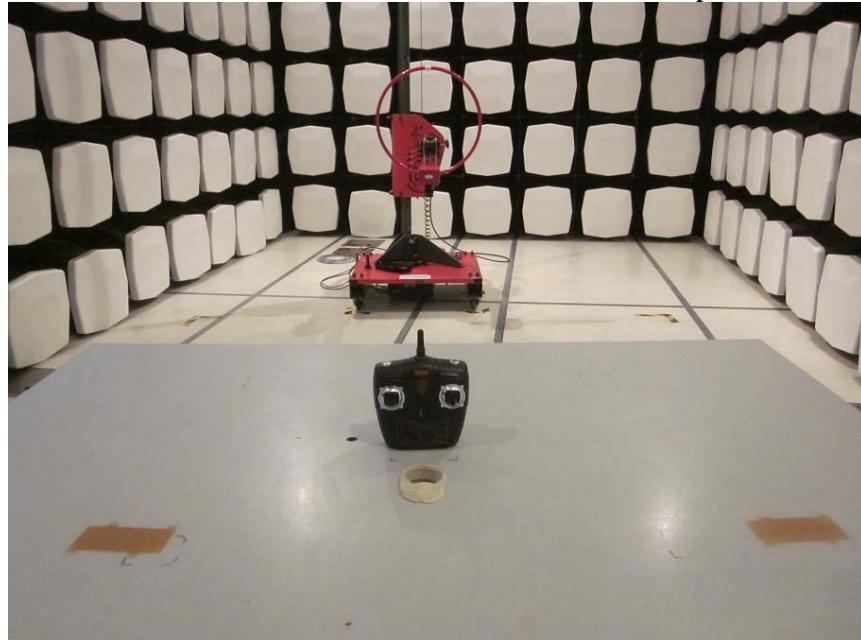
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Photographs of EUT

Measurement of Radiated Emission Test Set Up



Measurement of Radiated Emission Test Set Up



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Photographs of EUT

Measurement of Radiated Emission Test Set Up



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

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