



## **STC Test Report**

Date: 2016-05-04

Page 1 of 34

No.: MH192586

**Applicant:** Ewig Industries Macao Commercial Offshore Limited  
Avenida Da Praia Grande No.619, EDF. Comercial Si Toi  
L6, Macau

**Manufacturer:** Dong Guan Q&S Electronic Manufacturing Company  
Limited  
Yin Shan Industrial District, Fu Gang Village, Xiang Mang  
West Road, Qing Xi Town, Dongguan City, Guang Dong  
Province, China

**Description of Sample(s):** Submitted sample(s) said to be  
Product: Temperature and Humidity Sensor  
Brand Name: EWIG  
Model Number: GRP008  
FCC ID: N9ZGRP008

**Date Sample(s) Received:** 2016-04-13

**Date Tested:** 2016-04-26 to 2016-05-03

**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):** ---

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Dr. LEE Kam Chuen  
Authorized Signatory  
ElectroMagnetic Compatibility Department  
For and on behalf of  
The Hong Kong Standards and Testing Centre Ltd.

**The Hong Kong Standards and Testing Centre Ltd.**

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## **STC Test Report**

Date: 2016-05-04

Page 2 of 34

No.: MH192586

### **CONTENT:**

Cover  
Content

Page 1 of 34

Page 2 of 34

### **1.0 General Details**

1.1	Test Laboratory	Page 3 of 34
1.2	Equipment Under Test [EUT] Description of EUT operation	Page 3 of 34
1.3	Date of Order	Page 3 of 34
1.4	Submitted Sample(s)	Page 3 of 34
1.5	Test Duration	Page 3 of 34
1.6	Country of Origin	Page 3 of 34

### **2.0 Technical Details**

2.1	Investigations Requested	Page 4 of 34
2.2	Test Standards and Results Summary	Page 4 of 34

### **3.0 Test Results**

3.1	Emission	Page 5-30 of 34
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### **Appendix A**

List of Measurement Equipment	Page 31 of 34
-------------------------------	---------------

### **Appendix B**

Photographs of EUT	Page 32-34 of 34
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## **STC Test Report**

Date: 2016-05-04

Page 3 of 34

No.: MH192586

### **1.0 General Details**

#### **1.1 Test Laboratory**

The Hong Kong Standards and Testing Centre Ltd.  
EMC Laboratory  
10 Dai Wang Street, Taipo Industrial Estate, New Territories, Hong Kong

Telephone: 852 2666 1888  
Fax: 852 2664 4353

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

Product:	Temperature and Humidity Sensor
Manufacturer:	Dong Guan Q&S Electronic Manufacturing Company Limited Yin Shan Industrial District, Fu Gang Village, Xiang Mang West Road, Qing Xi Town, Dongguan City, Guang Dong Province, China
Brand Name:	EWIG
Model Number:	GRP008
Rating:	3.0Vd.c. (CR2032 battery x 1)

##### **1.2.1 Description of EUT Operation**

The Equipment Under Test (EUT) is a Temperature and Humidity Sensor of Ewig Industries Macao Commercial Offshore Limited. the transmission signal is digital modulated with channel frequency range 2405-2475MHz.

#### **1.3 Date of Order**

2016-04-13

#### **1.4 Submitted Sample(s):**

1 Sample

#### **1.5 Test Duration**

2016-04-26 to 2016-05-03

#### **1.6 Country of Origin**

China

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## **STC Test Report**

Date: 2016-05-04

Page 4 of 34

No.: MH192586

### **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. The device was realized by test software.

#### **2.2 Test Standards and Results Summary Tables**

<b>EMISSION Results Summary</b>						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Fail	N/A
Output Power of Fundamental Emissions	FCC 47CFR 15.247(b)(3)	ANSI C63.10:2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10:2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10:2013	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Power Spectral Density	FCC 47CFR 15.247(e)	ANSI C63.10:2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6dB Bandwidth	FCC 47CFR 15.247(a)(2)	ANSI C63.10:2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Band Edge Emissions	FCC 47CFR 15.247(d)	ANSI C63.10:2013	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"/>

Note: N/A - Not Applicable

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Date: 2016-05-04

Page 5 of 34

No.: MH192586

### **3.0 Test Results**

#### **3.1 Emission**

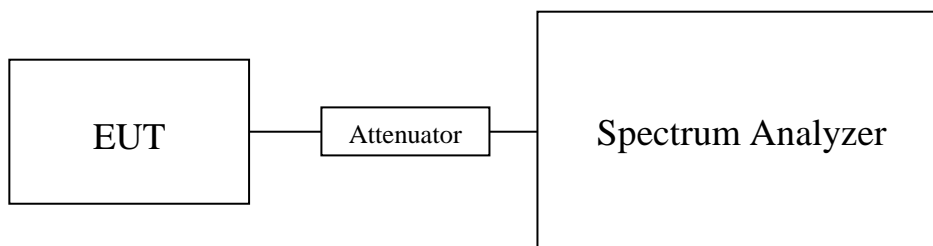
##### **3.1.1 Maximum Peak Output Power**

Test Requirement:	FCC 47CFR 15.247(b)(3)
Test Method:	N/A
Test Date:	2016-04-27
Mode of Operation:	TX mode

#### **Test Method:**

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

#### **Test Setup:**



Note: a temporary antenna connector was soldered to the RF output.

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## **STC Test Report**

Date: 2016-05-04

Page 6 of 34

No.: MH192586

### **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)

<b>Results of Tx Mode pi/4 QPSK (2405MHz to 2475MHz) : Pass (TX Unit)</b> <b>Maximum conducted output power</b>		
<b>Channel</b>	<b>Frequency(MHz)</b>	<b>Output Power(Watt)</b>
Low	2405	0.076384
Middle	2440	0.070146
High	2475	0.068234

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

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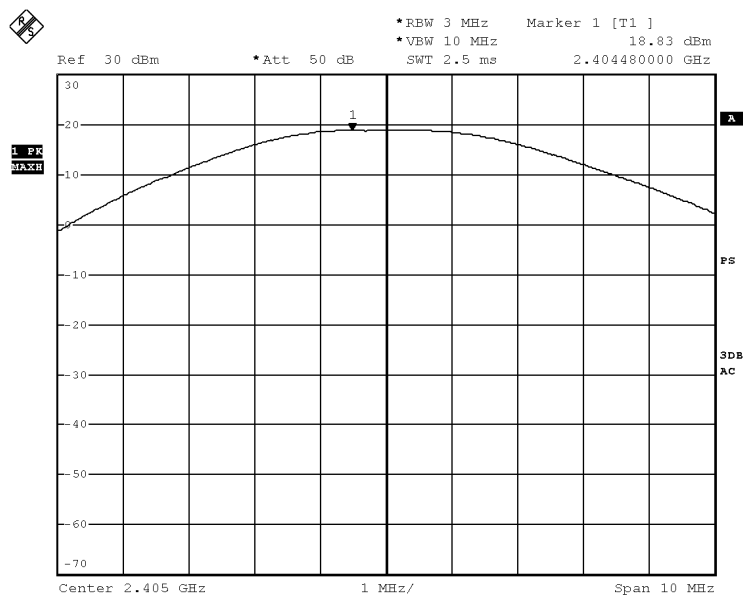
Date: 2016-05-04

Page 7 of 34

No.: MH192586

### Test plot of Maximum Peak Conducted Output Power :

**TX mode (2405MHz)**



BMP

Date: 27.APR.2016 10:58:33

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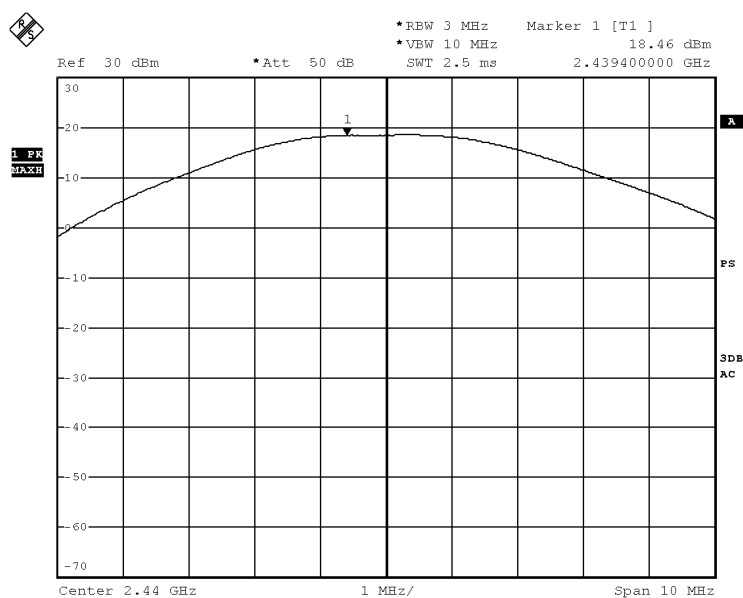
## STC Test Report

Date: 2016-05-04

Page 8 of 34

No.: MH192586

**TX mode (2440MHz)**



BMP

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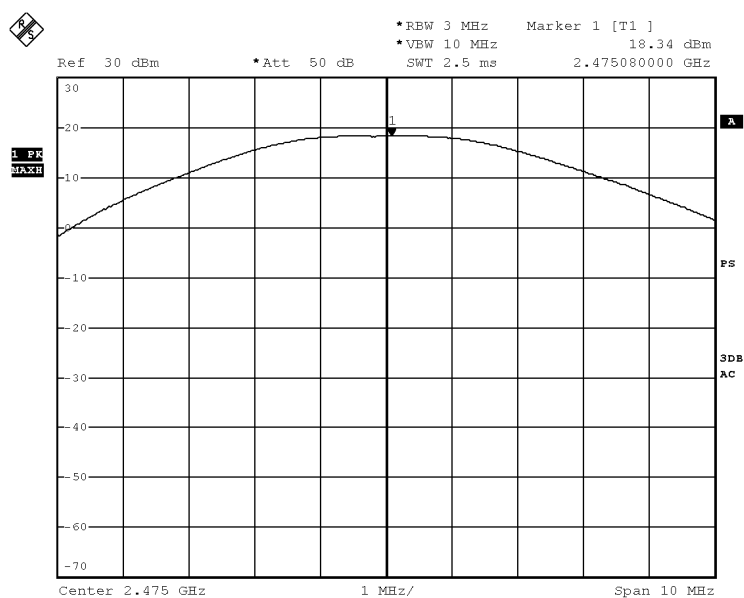
## STC Test Report

Date: 2016-05-04

Page 9 of 34

No.: MH192586

**TX mode (2475MHz)**



BMP

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## STC Test Report

Date: 2016-05-04

Page 10 of 34

No.: MH192586

### 3.1.2 Radiated Emissions

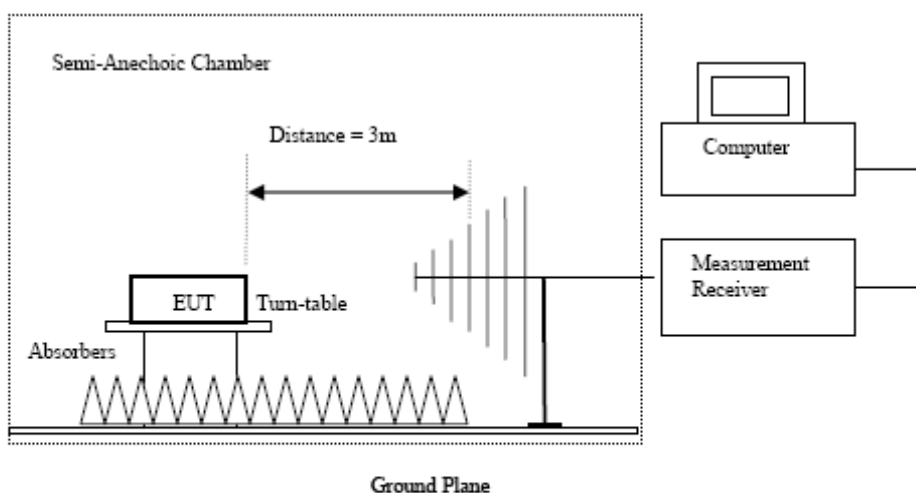
Test Requirement:	FCC 47CFR 15.209
Test Method:	ANSI C63.10:2013
Test Date:	2016-04-28
Mode of Operation:	Tx mode

#### 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, 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 The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 568301

#### 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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## STC Test Report

Date: 2016-05-04

Page 11 of 34

No.: MH192586

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

Frequency Range [MHz]	Quasi-Peak Limits [ $\mu\text{V/m}$ ]
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 (2405.0 MHz) (pi/4 QPSK) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level dB $\mu\text{V}$	Correction Factor dB/m	Field Strength dB $\mu\text{V/m}$	Field Strength dB $\mu\text{V/m}$	Limit dB $\mu\text{V/m}$	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

### Result of Tx mode (2405.0 MHz) (pi/4 QPSK) (1GHz-26GHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dB $\mu\text{V}$	Correction Factor dB/m	Field Strength dB $\mu\text{V/m}$	Limit @3m dB $\mu\text{V/m}$	Margin dB $\mu\text{V/m}$	E-Field Polarity
4810.0	14.0	41.5	55.5	74.0	18.5	Vertical
4810.0	15.4	42.4	57.8	74.0	16.2	Horizontal
7215.0	10.9	45.1	56.0	74.0	18.0	Vertical
7215.0	11.2	46.2	57.4	74.0	16.6	Horizontal
9620.0	6.7	48	54.7	74.0	19.3	Vertical
9620.0	8.0	48.8	56.8	74.0	17.2	Horizontal
12025.0	0.9	51.8	52.7	74.0	21.3	Vertical
12025.0	2.9	52.4	55.3	74.0	18.7	Horizontal

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## STC Test Report

Date: 2016-05-04

Page 12 of 34

No.: MH192586

**Result of Tx mode (2405.0 MHz) (pi/4 QPSK) ((1GHz-26GHz): Pass**

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
4810.0	-1.2	41.5	40.3	54.0	13.7	Vertical
4810.0	0.2	42.4	42.6	54.0	11.4	Horizontal
7215.0	-4.4	45.1	40.7	54.0	13.3	Vertical
7215.0	-3.9	46.2	42.3	54.0	11.7	Horizontal
9620.0	-8.4	48	39.6	54.0	14.4	Vertical
9620.0	-7.3	48.8	41.5	54.0	12.5	Horizontal
12025.0	-14.4	51.8	37.4	54.0	16.6	Vertical
12025.0	-12.2	52.4	40.2	54.0	13.8	Horizontal

**Result of Tx mode (2440.0 MHz) (pi/4 QPSK) (9kHz – 30MHz): Pass**

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Limit dB $\mu$ V/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

**Result of Tx mode (2440.0 MHz) (pi/4 QPSK) ((1GHz-26GHz): Pass**

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
4880.0	12.8	41.6	54.4	74.0	19.6	Vertical
4880.0	15.0	42.5	57.5	74.0	16.5	Horizontal
7320.0	2.4	53.2	55.6	74.0	18.4	Vertical
7320.0	10.1	46.3	56.4	74.0	17.6	Horizontal
9760.0	5.7	48.1	53.8	74.0	20.2	Vertical
9760.0	6.9	48.9	55.8	74.0	18.2	Horizontal
12200.0	2.6	51.6	54.2	74.0	19.8	Vertical
12200.0	3.0	52.5	55.5	74.0	18.5	Horizontal

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## STC Test Report

Date: 2016-05-04

Page 13 of 34

No.: MH192586

**Result of Tx mode (2440.0 MHz) (pi/4 QPSK) ((1GHz-26GHz): Pass**

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
4880.0	-2.4	41.6	39.2	54.0	14.8	Vertical
4880.0	-0.2	42.5	42.3	54.0	11.7	Horizontal
7320.0	-4.9	45.2	40.3	54.0	13.7	Vertical
7320.0	-5.0	46.3	41.3	54.0	12.7	Horizontal
9760.0	-9.4	48.1	38.7	54.0	15.3	Vertical
9760.0	-8.3	48.9	40.6	54.0	13.4	Horizontal
12200.0	-12.6	51.6	39.0	54.0	15.0	Vertical
12200.0	-12.2	52.5	40.3	54.0	13.7	Horizontal

**Result of Tx mode (2475.0 MHz) (pi/4 QPSK) (9kHz – 30MHz): Pass**

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength dBμV/m	Limit dBμV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

**Result of Tx mode (2475.0 MHz) (pi/4 QPSK) ((1GHz-26GHz): Pass**

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dBμV/m	E-Field Polarity
4950.0	12.3	41.4	53.7	74.0	20.3	Vertical
4950.0	15.2	42.7	57.9	74.0	16.1	Horizontal
7425.0	7.5	45.6	53.1	74.0	20.9	Vertical
7425.0	9.8	46.5	56.3	74.0	17.7	Horizontal
9900.0	3.8	48.6	52.4	74.0	21.6	Vertical
9900.0	5.1	49.7	54.8	74.0	19.2	Horizontal
12375.0	1.5	51.7	53.2	74.0	20.8	Vertical
12375.0	3.7	52.7	56.4	74.0	17.6	Horizontal

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## STC Test Report

Date: 2016-05-04

Page 14 of 34

No.: MH192586

**Result of Tx mode (2475.0 MHz) (pi/4 QPSK) (1GHz-26GHz): Pass**

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dBuV	Correction Factor dB/m	Field Strength dBuV/m	Limit @3m dBuV/m	Margin dBuV/m	E-Field Polarity
4950.0	-2.8	41.4	38.6	54.0	15.4	Vertical
4950.0	0.0	42.7	42.7	54.0	11.3	Horizontal
7425.0	-7.8	45.6	37.8	54.0	16.2	Vertical
7425.0	-5.3	46.5	41.2	54.0	12.8	Horizontal
9900.0	-11.3	48.6	37.3	54.0	16.7	Vertical
9900.0	-10.2	49.7	39.5	54.0	14.5	Horizontal
12375.0	-13.9	51.7	37.8	54.0	16.2	Vertical
12375.0	-11.4	52.7	41.3	54.0	12.7	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 uncertainty : (9kHz-30MHz): 2.0dB  
(30MHz -1GHz): 4.9dB  
(1GHz -6GHz): 4.02dB  
(6GHz -26.5GHz): 4.03dB

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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## STC Test Report

Date: 2016-05-04

Page 15 of 34

No.: MH192586

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

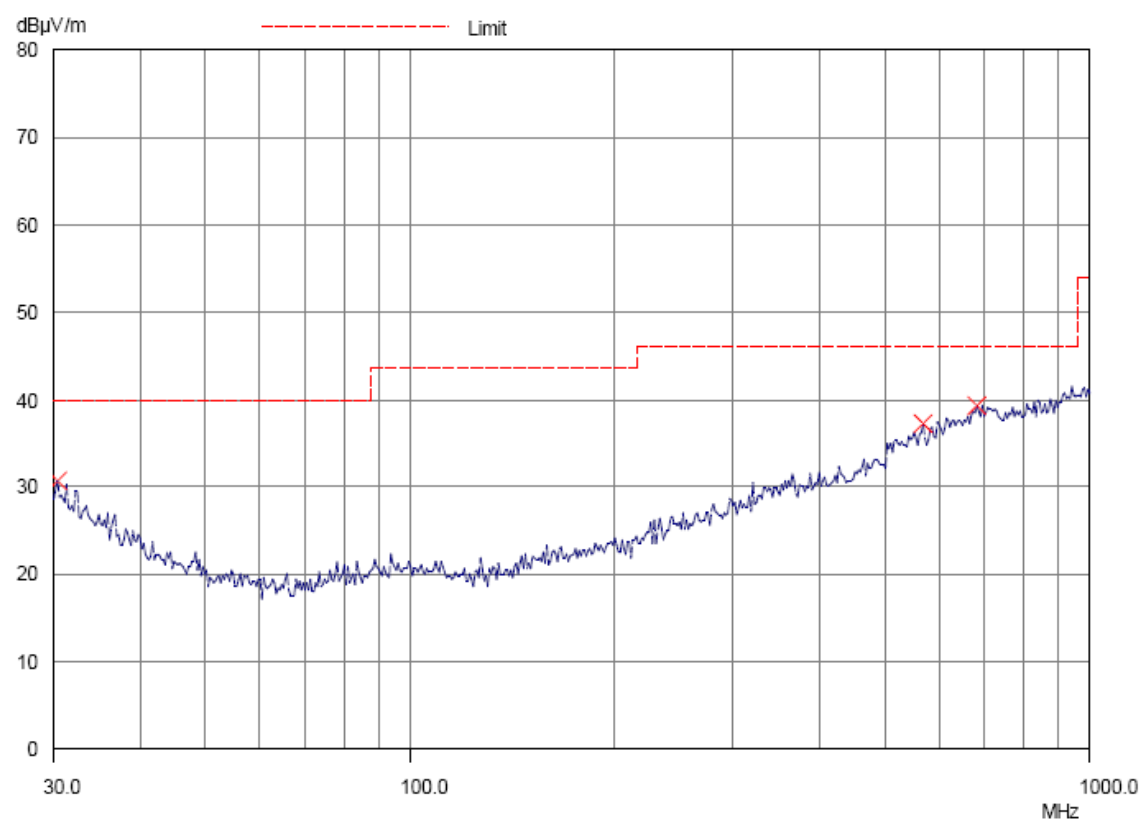
Frequency Range	Quasi-Peak Limits
[MHz]	[ $\mu\text{V/m}$ ]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

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 TX mode(2405.0 MHz) (30MHz – 1GHz): Pass**

Please refer to the following table for result details

#### Horizontal



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## **STC Test Report**

Date: 2016-05-04

Page 16 of 34

No.: MH192586

**Result of TX mode (2405.0 MHz) (30MHz – 1GHz): Pass**

<b>Radiated Emissions Quasi-Peak</b>					
Emission Frequency MHz	E-Field Polarity	Level @3m dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Level @3m dB $\mu$ V/m	Limit @3m dB $\mu$ V/m
30.2	Horizontal	30.7	40.0	34.3	100
566.2	Horizontal	37.2	46.0	72.4	200
680.0	Horizontal	37.3	46.0	73.3	200

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Page 17 of 34

No.: MH192586

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

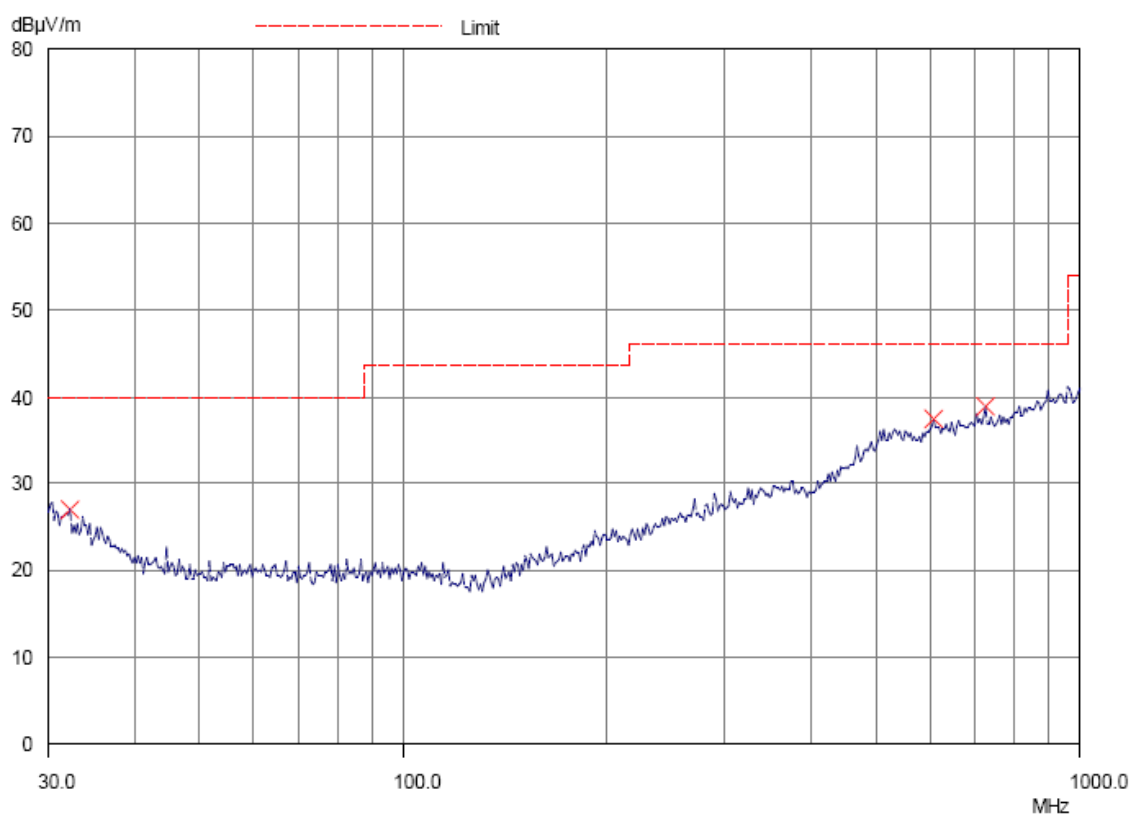
Frequency Range	Quasi-Peak Limits
[MHz]	[ $\mu$ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

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 TX mode(2405.0 MHz) (30MHz – 1GHz): Pass**

Please refer to the following table for result details

Vertical



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## **STC Test Report**

Date: 2016-05-04

Page 18 of 34

No.: MH192586

**Result of TX mode (2405.0 MHz) (30MHz – 1GHz): Pass**

<b>Radiated Emissions Quasi-Peak</b>					
Emission Frequency MHz	E-Field Polarity	Level @ 3m dB $\mu$ V/m	Limit @ 3m dB $\mu$ V/m	Level @ 3m dB $\mu$ V/m	Limit @ 3m dB $\mu$ V/m
32.1	Vertical	27.1	40.0	22.6	100
605.1	Vertical	37.4	46.0	74.1	200
722.3	Vertical	37.9	46.0	78.5	200

**Remarks:**

Calculated measurement uncertainty (30MHz – 1GHz): 4.9dB

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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## **STC Test Report**

Date: 2016-05-04

Page 19 of 34

No.: MH192586

### **3.1.3 Power Spectral Density**

Test Requirement: FCC 47CFR 15.247(e)  
Test Method: ANSI C63.10:2013  
Test Date: 2016-04-27  
Mode of Operation: 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.

Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where  $BWCF = 10 \log (3 \text{ kHz} / 100 \text{ kHz}) = -15.2 \text{ dB}$

#### **Results of TX Mode pi/4 QPSK (Tx:2405MHz to 2475MHz) : Pass (TX Unit)**

##### **Maximum power spectral density**

<b>Transmitter Frequency (MHz)</b>	<b>Maximum Power spectral density level / 3kHz band (dBm)</b>	<b>Maximum Power spectral density / 3kHz band limit</b>
2405.0	4.39	<b>8dBm</b>
2440.0	4.72	<b>8dBm</b>
2475.0	4.07	<b>8dBm</b>

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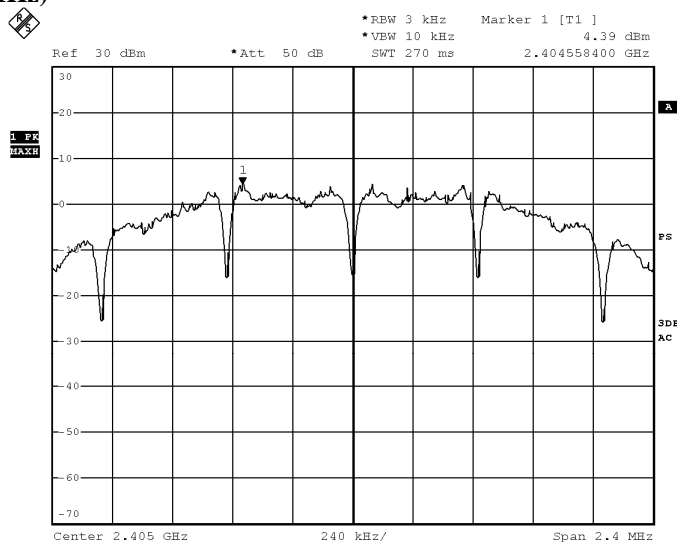
Date: 2016-05-04

Page 20 of 34

No.: MH192586

**TX mode pi/4 QPSK (Tx:2405MHz to 2475MHz)**

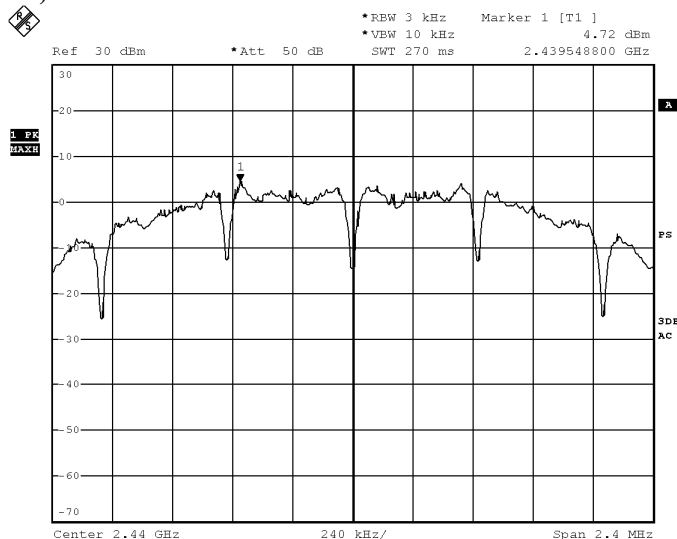
**CH 1 (2405.0 MHz)**



BMP

Date: 27.APR.2016 11:33:17

**CH 6 (2440.0 MHz)**



BMP

Date: 27.APR.2016 11:56:00

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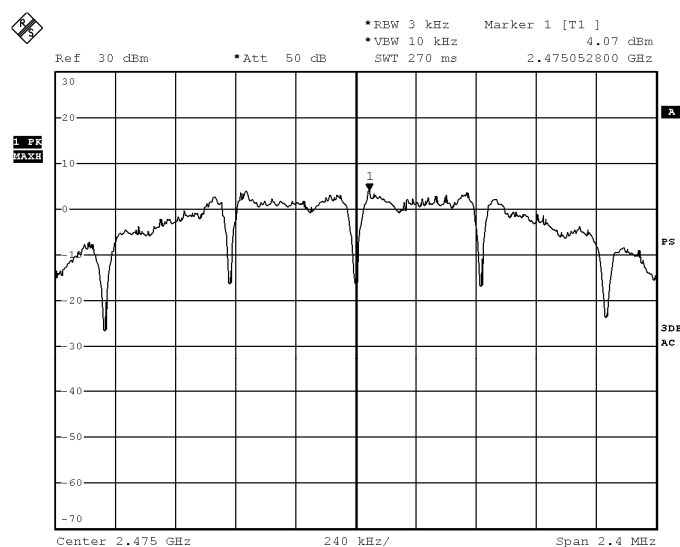
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Date: 2016-05-04

Page 21 of 34

No.: MH192586

**CH 11 (2475.0 MHz)**



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## **STC Test Report**

Date: 2016-05-04

Page 22 of 34

No.: MH192586

### **3.1.4 6dB Spectrum Bandwidth Measurement**

Test Requirement:	FCC 47CFR 15.247(a)(2)
Test Method:	ANSI C63.10:2013
Test Date:	2016-04-27
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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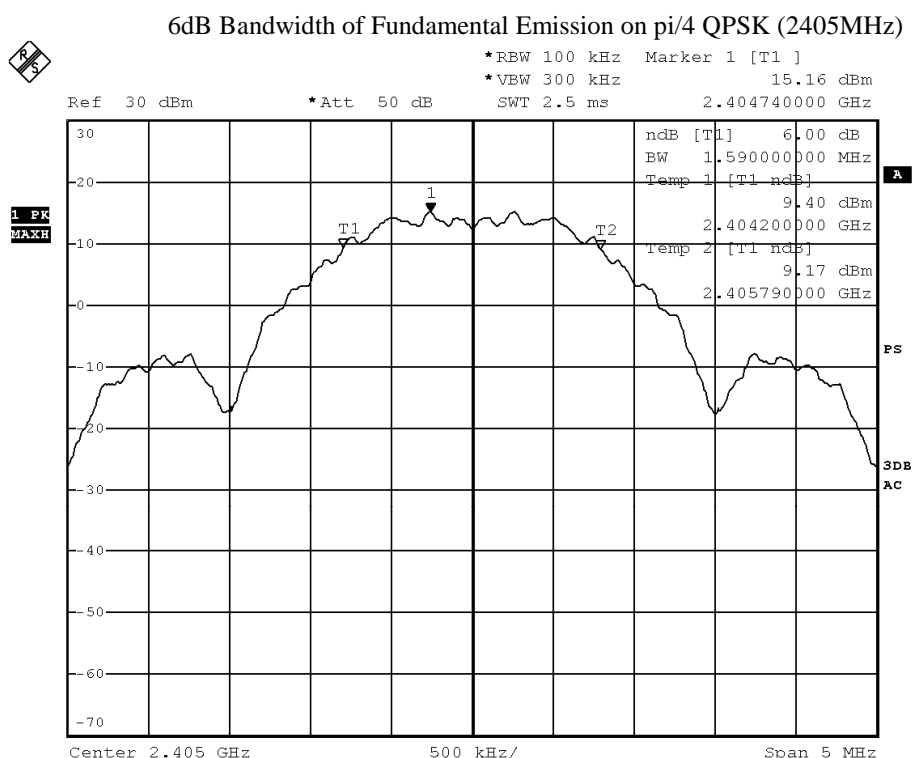
Date: 2016-05-04

Page 23 of 34

No.: MH192586

### Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2405.0	1.59	> 500



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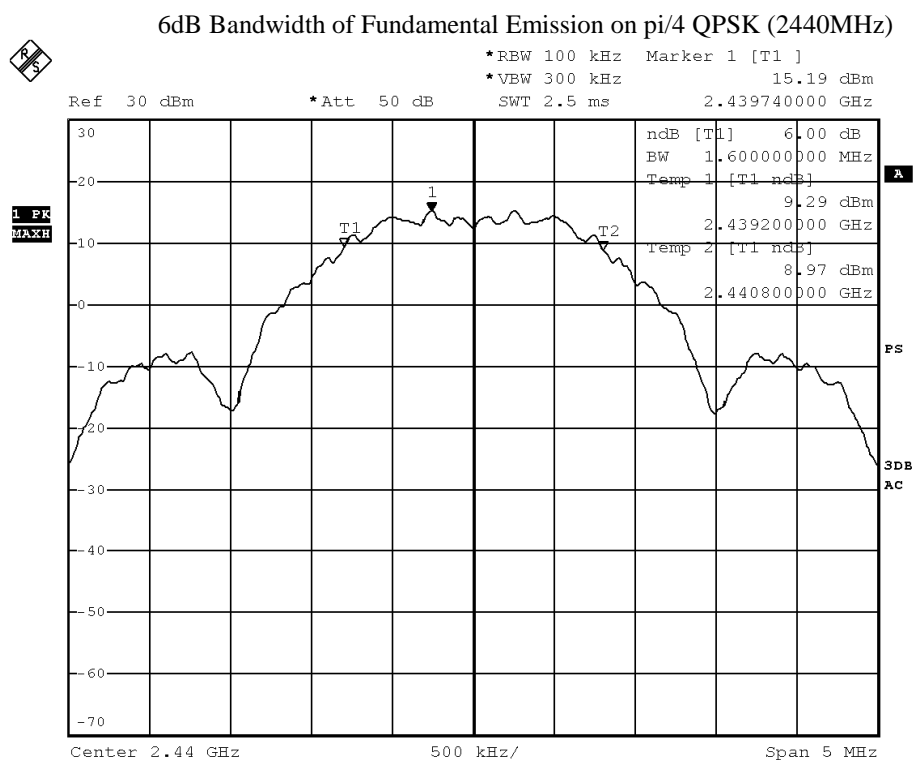
Date: 2016-05-04

Page 24 of 34

No.: MH192586

### Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2440.0	1.60	> 500



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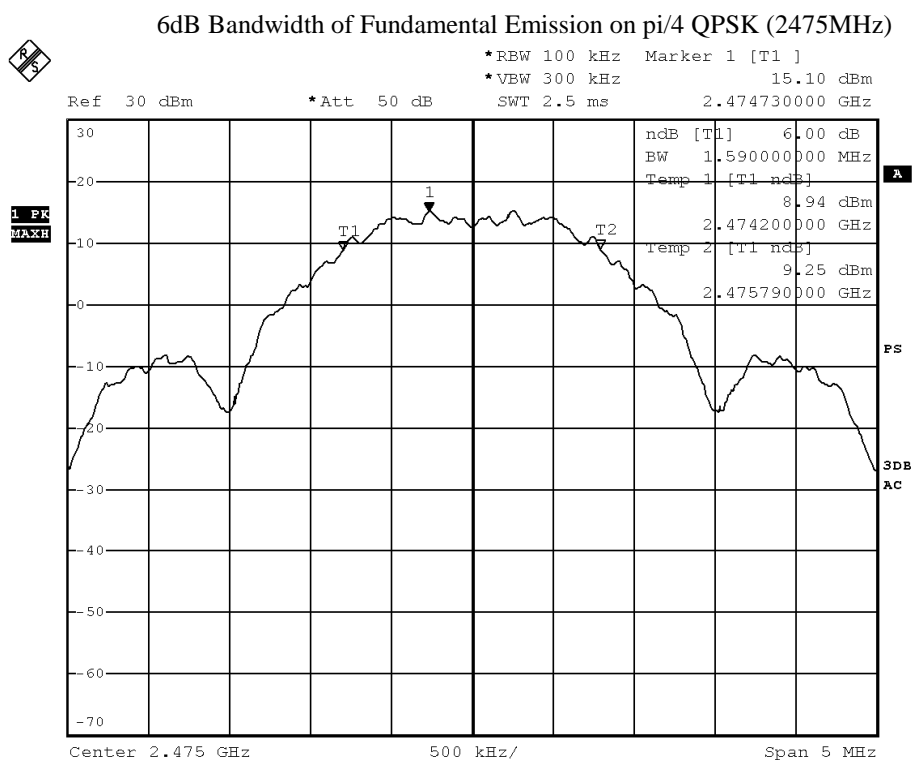
Date: 2016-05-04

Page 25 of 34

No.: MH192586

### Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2475.0	1.59	> 500



BMP

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## **STC Test Report**

Date: 2016-05-04

Page 26 of 34

No.: MH192586

### **3.1.5 Band Edges Measurement**

Test Requirement:	FCC 47CFR 15.247
Test Method:	ANSI C63.10:2013
Test Date:	2016-04-27
Mode of Operation:	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 art set to 100kHz and VBW are set to 300kHz for this measurement.

#### **Test Setup:**

As Test Setup of clause 3.1.2 in this test report.

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Page 27 of 34

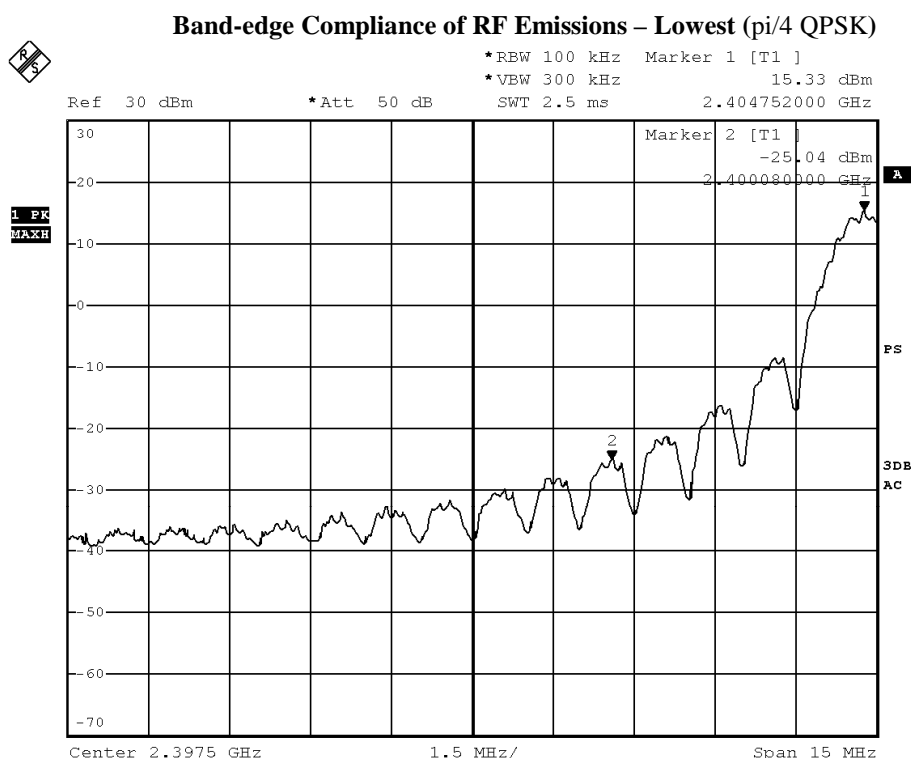
No.: MH192586

### 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 (2405)	40.37



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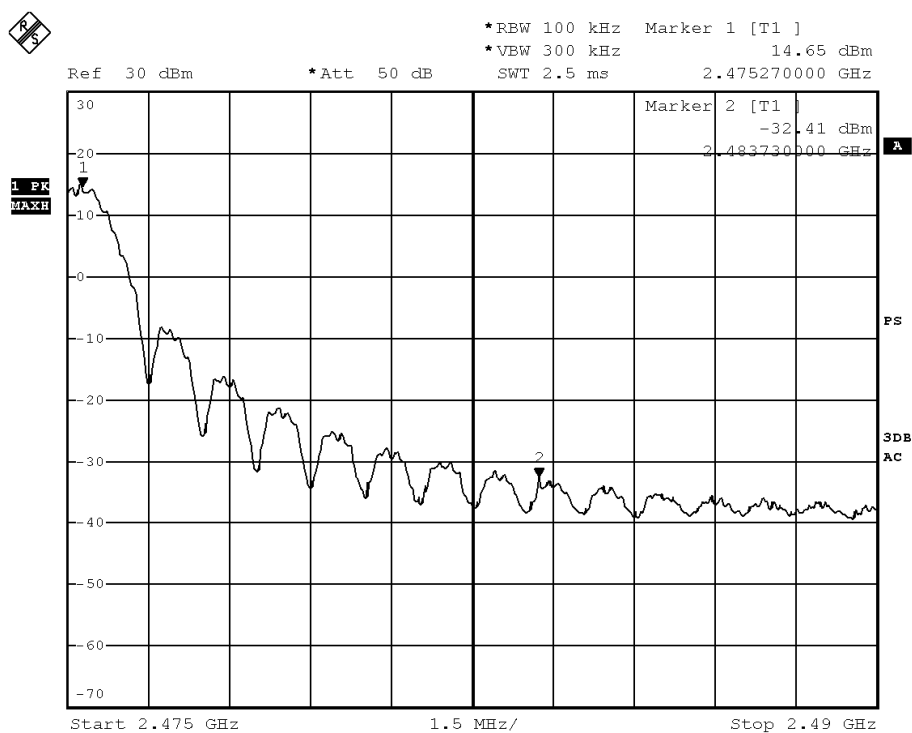
Page 28 of 34

No.: MH192586

### Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Radiated Emission Attenuated below the Fundamental
[MHz]	[dB]
2483.5 - Highest Fundamental (2475)	47.06

### Band-edge Compliance of RF Emissions – Highest (pi/4 QPSK)



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Date: 2016-05-04

Page 29 of 34

No.: MH192586

### **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)- pi/4 QPSK**

Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dBμV/m	E-Field Polarity
2390.0	20.0	36.8	56.8	74.0	17.2	Vertical
2390.0	26.0	36.4	62.4	74.0	11.7	Horizontal

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dBμV/m	E-Field Polarity
2390.0	9.6	36.8	46.4	54.0	7.6	Vertical
2390.0	15.5	36.4	51.9	54.0	2.1	Horizontal

### **Result: Band-edge Compliance of RF Radiated Emissions (Highest) - pi/4 QPSK**

Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dBμV/m	E-Field Polarity
2483.5	17.4	36.8	54.2	74.0	19.8	Vertical
2483.5	22.1	36.4	58.5	74.0	15.5	Horizontal

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dBμV/m	E-Field Polarity
2483.5	7.2	36.8	44.0	54.0	10.0	Vertical
2483.5	11.8	36.4	48.2	54.0	5.8	Horizontal

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## **STC Test Report**

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Page 30 of 34

No.: MH192586

### **3.1.6 RF Exposure**

Test Requirement: FCC 47CFR 15.247(i)  
Test Date: 2016-04-29  
Mode of Operation: **TX** mode

#### **Test Method:**

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

#### **Test Results:**

The EUT complied with the requirement(s) of this section.  
EUT meets the requirements of these sections as proven through MPE calculation  
The MPE calculation for EUT @ 20cm  
Based on the highest P = 76.384 mW

$$\begin{aligned} P_d &= PG / 4\pi R^2 = (76.384 \times 1.07) / 12.566 \times (20)^2 \\ &= (81.73088) / 12.566 \times 400 = 81.73088 / 5026.4 \\ &= 0.01626 \text{ mW/cm}^2 \end{aligned}$$

where:

- \*Pd = power density in mW/cm<sup>2</sup>
- \* G = Antenna numeric gain (1.07); Log G = g/10 ( g = 0.28dBi ).
- \* P = Conducted RF power to antenna (76.384mW).
- \* R = Minimum allowable distance.(20 cm)
  
- \*The power density Pd = 0.01626 mW/cm<sup>2</sup> is less than 1 mW/cm<sup>2</sup> (listed MPE limit)
- \*The SAR evaluation is not needed ( this is a desk top device, R> 20 cm )
- \* The EUT( antenna ) must be 0.2 meters away from the General Population.

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## **STC Test Report**

Date: 2016-05-04

Page 31 of 34

No.: MH192586

### **Appendix A**

#### **List of Measurement Equipment**

##### **Radiated Emission**

<b>EQP NO.</b>	<b>DESCRIPTION</b>	<b>MANUFACTURER</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>LAST CAL</b>	<b>DUE CAL</b>
EM299	DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA	ETS-LINDGREN	3115	00114120	2014/11/15	2016/11/25
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2016/06/27	2017/06/27
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2015/09/25	2016/09/25
EM320	BICONILOG ANTENNA	ETS-LINDGREN	3142D	00094856	2014/08/06	2016/08/06
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2014/04/28	2016/04/28
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2015/06/01	2016/06/01
EM529	MICROWAVE FREQUENCY CABLE	SUHNER	SUCOFLEX 104	238296	2014/07/24	2016/07/24

Remarks:-

N/A Not Applicable or Not Available

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## **STC Test Report**

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Page 32 of 34

No.: MH192586

### **Appendix B**

#### **Photographs of EUT**

**Front View of the product**



**Rear View of the product**



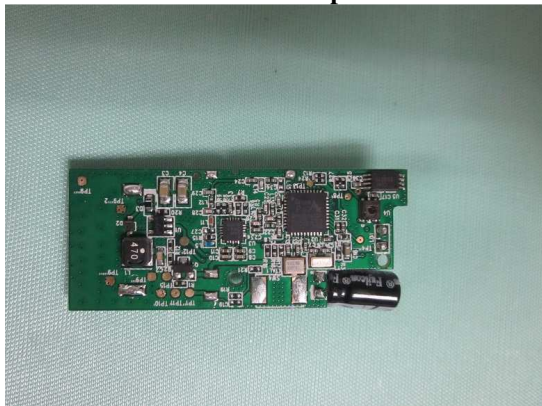
**Inside View of the product**



**Inside View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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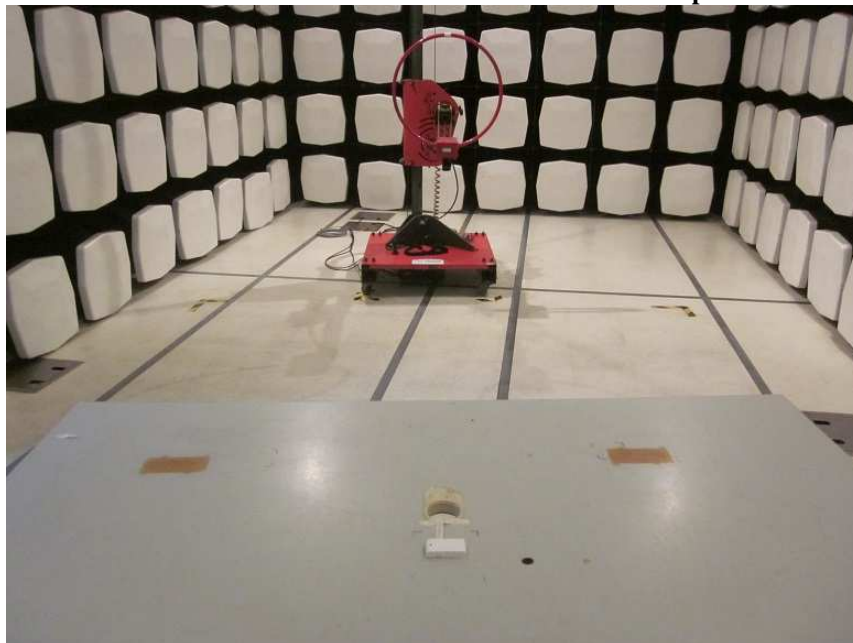
Date: 2016-05-04

Page 33 of 34

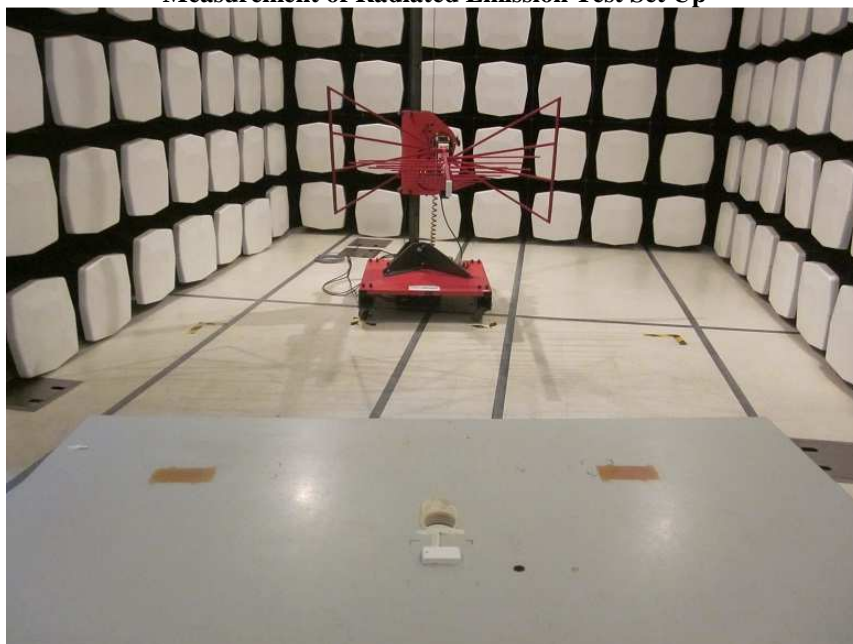
No.: MH192586

### **Photographs of EUT**

**Measurement of Radiated Emission Test Set Up**



**Measurement of Radiated Emission Test Set Up**



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Date: 2016-05-04

Page 34 of 34

No.: MH192586

### **Photographs of EUT**

**Measurement of Radiated Emission Test Set Up**



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

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