



## STC Test Report

Date : 2016-08-15

No. : HM170375

Page 1 of 33

**Applicant** Conair Corporation  
1 Cummings Point Road, Stamford, CT 06902, United States.

**Manufacturer:** N/A

**Description of Sample(s):** Product: Blue Tooth Scale  
Brand Name: Weight Watchers Scales by Conair  
Model No.: WW910F  
FCC ID: DJT-WW910F

**Date Sample(s) Received:** 2016-08-02

**Date Tested:** 2016-08-08

**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):** For additional model(s) details, see page 3.



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 Limited

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## STC Test Report

Date : 2016-08-15

No. : HM170375

Page 2 of 33

### CONTENT:

Cover	Page 1 of 33
Content	Page 2 of 33
<b><u>1.0</u></b> <b><u>General Details</u></b>	
1.1 Test Laboratory	Page 3 of 33
1.2 Equipment Under Test [EUT] Description of EUT operation	Page 3 of 33
1.3 Date of Order	Page 3 of 33
1.4 Submitted Sample	Page 3 of 33
1.5 Test Duration	Page 3 of 33
1.6 Country of Origin	Page 3 of 33
1.7 RF Module Details	Page 4 of 33
1.8 Antenna Details	Page 4 of 33
<b><u>2.0</u></b> <b><u>Technical Details</u></b>	
2.1 Investigations Requested	Page 5 of 33
2.2 Test Standards and Results Summary	Page 5 of 33
<b><u>3.0</u></b> <b><u>Test Results</u></b>	
3.1 Emission	Page 7 - 27 of 33
<b><u>Appendix A</u></b>	
List of Measurement Equipment	Page 28 of 33
<b><u>Appendix B</u></b>	
Photographs	Page 29 - 33 of 33

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## STC Test Report

**Date : 2016-08-15**

**Page 3 of 33**

**No. : HM170375**

### **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

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

Product: Blue Tooth Scale  
Manufacturer: N/A  
Brand Name: Weight Watchers Scales by Conair  
Model Number: WW910F  
Additional Model Number: WW912F  
Input Voltage: 4.5Vd.c. ("AAA" Size Battery x 3)

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

The Equipment Under Test (EUT) is a Blue Tooth Scale of Conair Corporation. The EUT type of modulation is GFSK, the channel frequency range 2402-2480MHz.

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

2016-08-02

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

1 Sample

#### **1.5 Test Duration**

2016-08-08

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

China

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## STC Test Report

**Date : 2016-08-15**

**Page 4 of 33**

**No. : HM170375**

### **1.7 RF Module Details**

Module Model Number:	CSM3510
Module FCC ID:	N/A
Module Transmission Type:	Bluetooth V4.0
Modulation:	FHSS (GFSK)
Data Rates:	N/A
Frequency Range:	2400-2483.5MHz
Carrier Frequencies:	2402MHz – 2480MHz

Module Specification (specification provided by manufacturer)

### **1.8 Antenna Details**

Antenna Type:	PCB antenna
Antenna Length:	34.43mm
Antenna Gain:	-1.5dBi

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## STC Test Report

Date : 2016-08-15

No. : HM170375

Page 5 of 33

### 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	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"/>
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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## STC Test Report

Date : 2016-08-15

No. : HM170375

Page 6 of 33

### **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: 2016-08-08

Mode of Operation: On mode

#### **Test Method:**

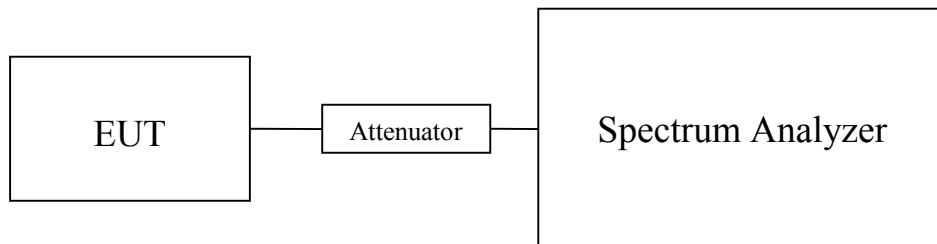
The RF output of the EUT was connected to the spectrum analyzer. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in dBm.

#### **Spectrum Analyzer Setting:**

RBW = 3 MHz, VBW= 3MHz, Sweep = Auto, Span = 10MHz

Detector = Peak, Trace = Max. hold

#### **Test Setup:**



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## STC Test Report

Date : 2016-08-15

Page 7 of 33

No. : HM170375

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

The maximum peak output power shall not exceeded the following limits:  
For frequency hopping systems employing at least 75 hopping channels: 1 Watt  
For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 Watts  
For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

### Results of on mode (GFSK) (Fundamental Power): Pass

#### Maximum conducted output power

Transmitter Frequency (MHz)	Maximum conducted output power (Watt)
2402	0.000051

Transmitter Frequency (MHz)	Maximum conducted output power (Watt)
2440	0.000039

Transmitter Frequency (MHz)	Maximum conducted output power (Watt)
2480	0.000043

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB  
1GHz to 18GHz 1.7dB

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## STC Test Report

**Date : 2016-08-15**

**No. : HM170375**

**Page 8 of 33**

### **3.1.2 Radiated Emissions**

Test Requirement: FCC 47CFR 15.209  
Test Method: ANSI C63.10-2013  
Test Date: 2016-08-08  
Mode of Operation: On 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, 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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## STC Test Report

Date : 2016-08-15

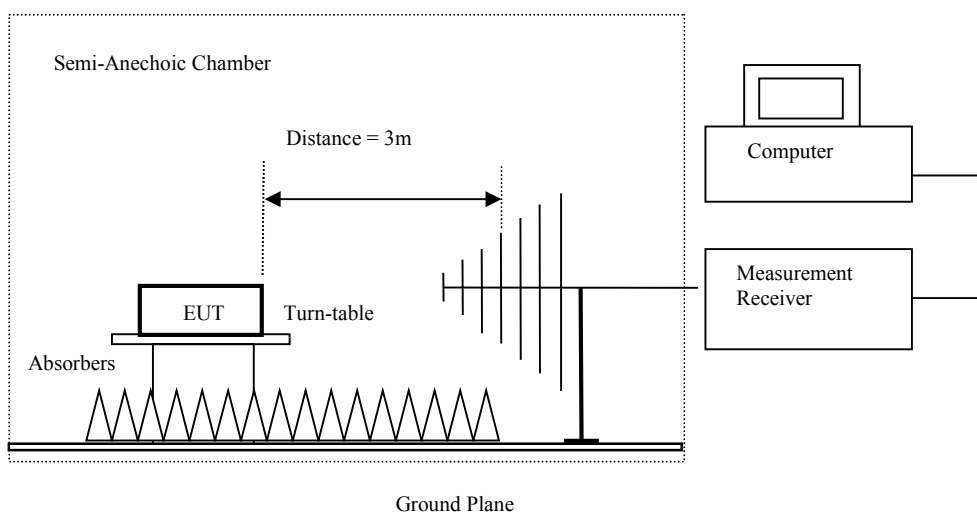
No. : HM170375

Page 9 of 33

### 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: 3MHz
	VBW: 3MHz
	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.

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## STC Test Report

Date : 2016-08-15

Page 10 of 33

No. : HM170375

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

Frequency Range [MHz]	Quasi-Peak Limits [ $\mu$ 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 on mode (2402.0 MHz) (GFSK mode) (9kHz – 30MHz): Pass

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

### Result of on mode (2402.0 MHz) (GFSK mode) (9kHz – 30MHz): Pass

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

### Result of on mode (2402.0 MHz) (GFSK mode) (30MHz – 1GHz): Pass

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

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# STC Test Report

Date : 2016-08-15

Page 11 of 33

No. : HM170375

### Result of on mode (2402.0 MHz) (GFSK mode) (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
2402.0	56.2	27.5	83.7	---	---	Horizontal
4803.9	31.7	31.7	63.4	74.0	10.6	Horizontal
7206.1	22.8	38.6	61.4	74.0	12.6	Horizontal

### Result of on mode (2402.0 MHz) (GFSK mode) (1GHz – 26GHz): Pass

Field Strength of Spurious Emissions						
Average 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
2402.0	37.1	27.5	64.6	---	---	Horizontal
4803.9	12.0	31.7	43.7	54.0	10.3	Horizontal
7206.1	2.0	38.6	40.6	54.0	13.4	Horizontal

### Result of on mode (2440.0 MHz) (GFSK mode) (9kHz – 30MHz): Pass

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

### Result of on mode (2440.0 MHz) (GFSK mode) (9kHz – 30MHz): Pass

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

### Result of on mode (2440.0 MHz) (GFSK mode) (30MHz – 1GHz): Pass

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

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## STC Test Report

Date : 2016-08-15

Page 12 of 33

No. : HM170375

**Result of on mode (2440.0 MHz) (GFSK mode) (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
2440.0	54.6	27.5	82.1	---	---	Horizontal
4879.9	31.0	31.7	62.7	74.0	11.3	Horizontal
7319.7	20.7	38.6	59.3	74.0	14.7	Horizontal

**Result of on mode (2440.0 MHz) (GFSK mode) (1GHz – 26GHz): Pass**

Field Strength of Spurious Emissions						
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
2440.0	36.4	27.5	63.9	---	---	Horizontal
4879.9	9.9	31.7	41.6	54.0	12.4	Horizontal
7319.7	1.2	38.6	39.8	54.0	14.2	Horizontal

**Result of on mode (2480.0 MHz) (GFSK mode) (9kHz – 30MHz): Pass**

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

**Result of on mode (2480.0 MHz) (GFSK mode) (9kHz – 30MHz): Pass**

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

**Result of on mode (2480.0 MHz) (GFSK mode) (30MHz – 1GHz): Pass**

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

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# STC Test Report

Date : 2016-08-15

Page 13 of 33

No. : HM170375

**Result of on mode (2480.0 MHz) (GFSK mode) (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
2480.0	55.3	27.5	82.8	---	---	Horizontal
4960.1	29.8	31.8	61.6	74.0	12.4	Horizontal
7440.2	21.1	38.6	59.7	74.0	14.3	Horizontal

**Result of on mode (2480.0 MHz) (GFSK mode) (1GHz – 26GHz): Pass**

Field Strength of Spurious Emissions Average 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
2480.0	36.2	27.5	63.7	---	---	Horizontal
4960.1	10.1	31.8	41.9	54.0	12.1	Horizontal
7440.2	2.0	38.6	40.6	54.0	13.4	Horizontal

Remarks:

\* 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): 2.4dB

(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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## STC Test Report

Date : 2016-08-15

Page 14 of 33

No. : HM170375

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

Frequency Range [MHz]	Quasi-Peak Limits [μV/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 on mode (30MHz – 1GHz): Pass

Radiated Emissions Quasi-Peak 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
36.9	0.3	12.1	12.4	40.0	27.6	Vertical
49.3	0.4	7.2	7.6	40.0	32.4	Vertical
101.2	0.1	8.3	8.4	43.5	35.1	Horizontal
210.7	0.7	11.2	11.9	43.5	31.6	Horizontal
362.9	0.3	16.1	16.4	46.0	29.6	Horizontal
447.6	0.6	17.8	18.4	46.0	27.6	Horizontal

#### 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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## STC Test Report

Date : 2016-08-15

Page 15 of 33

No. : HM170375

### 3.1.3 Power Spectral Density

Test Requirement: FCC 47CFR 15.247(e)  
Test Method: ANSI C63.10:2013  
Test Date: 2016-08-08  
Mode of Operation: On 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.

#### Result of on mode: Pass

#### Maximum power spectral density

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2402	-24.7	8dBm
2440	-23.9	8dBm
2480	-23.9	8dBm

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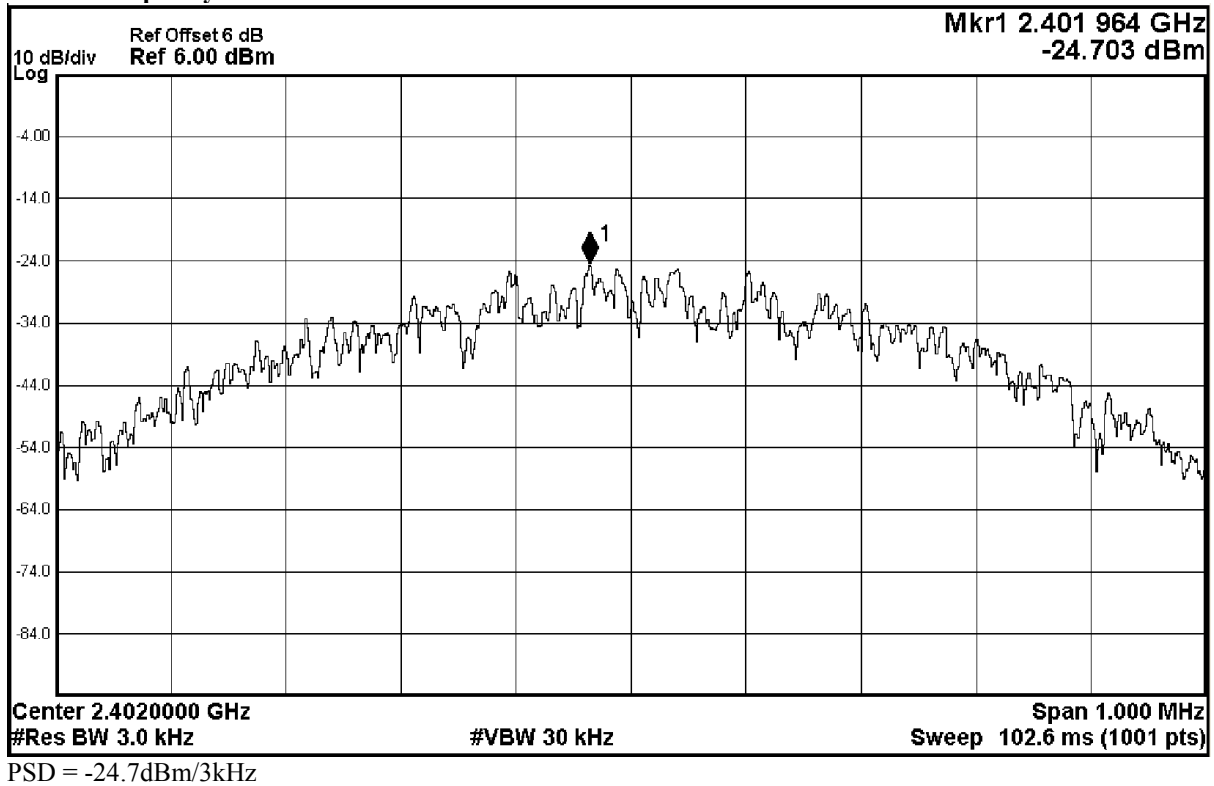


# STC Test Report

Date : 2016-08-15  
No. : HM170375

Page 16 of 33

Lowest Frequency: 2402MHz



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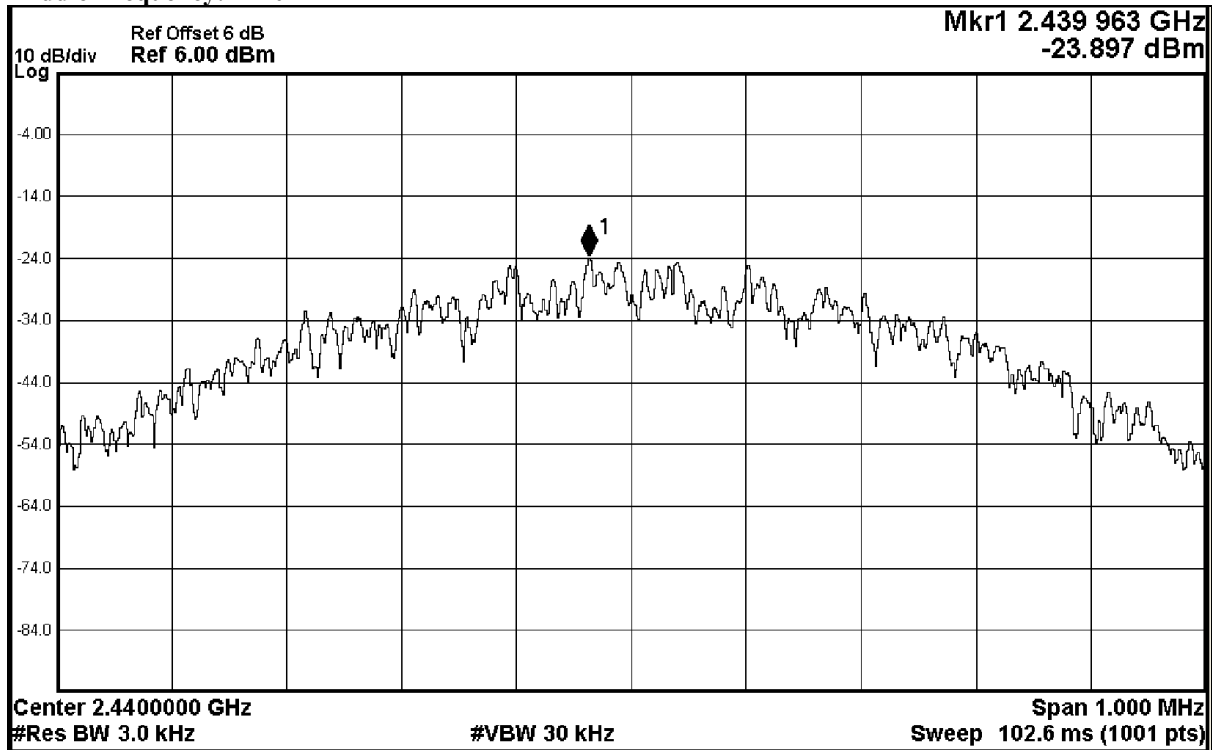


# STC Test Report

Date : 2016-08-15  
No. : HM170375

Page 17 of 33

Middle Frequency: 2440MHz



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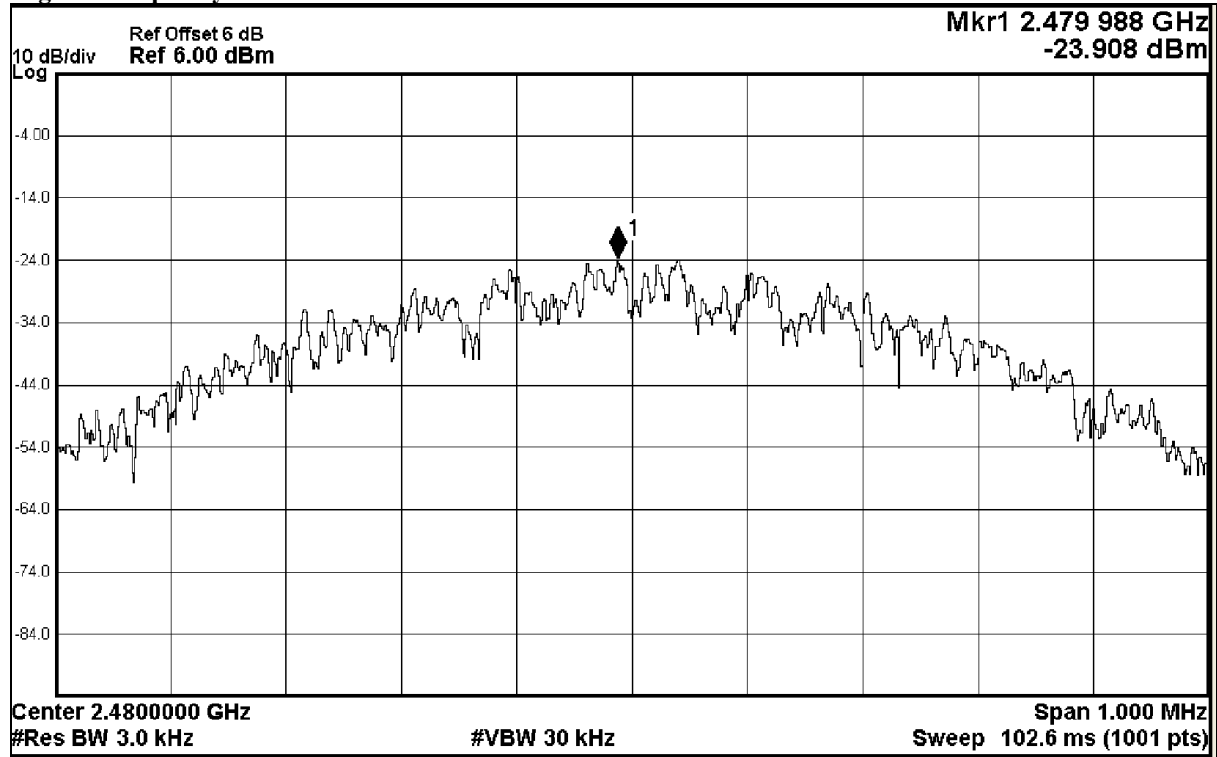


# STC Test Report

Date : 2016-08-15  
No. : HM170375

Page 18 of 33

Highest Frequency: 2480MHz



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## STC Test Report

**Date : 2016-08-15**

**No. : HM170375**

**Page 19 of 33**

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

Test Requirement: FCC 47CFR 15.247(a)(2)  
Test Method: ANSI C63.10-2013  
Test Date: 2016-08-08  
Mode of Operation: On mode

#### **Remark:**

The result has been done on all the possible configurations for searching the worst cases.

#### **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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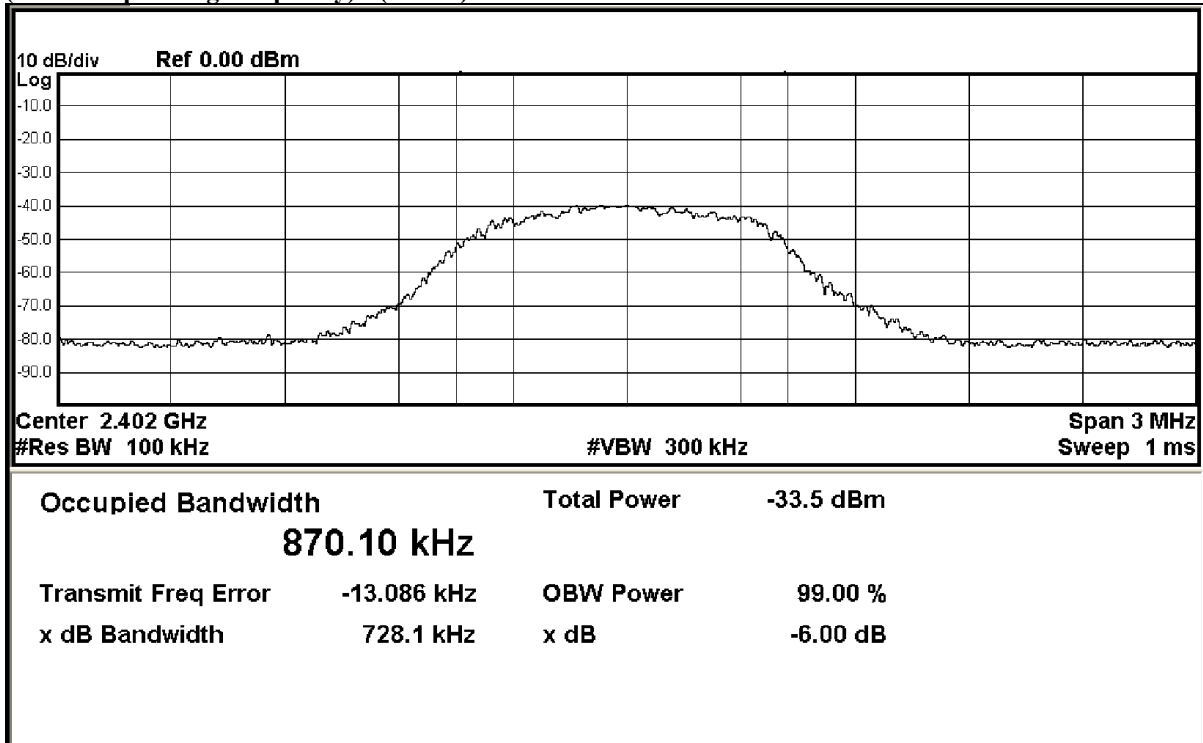
# STC Test Report

Date : 2016-08-15  
No. : HM170375

Page 20 of 33

Fundamental Frequency [MHz]	20dB Bandwidth [kHz]	FCC Limits [MHz]
2402	728.1	Within 2400-2483.5

### (Lowest Operating Frequency) - (GFSK)



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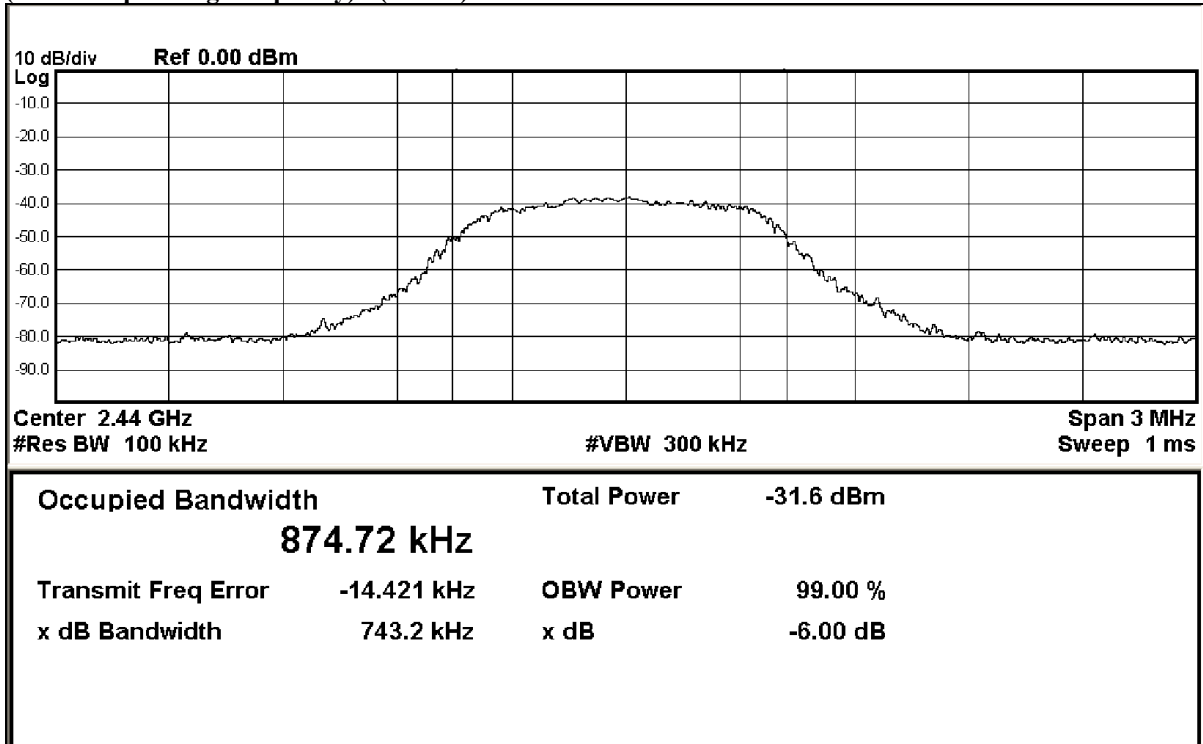
# STC Test Report

Date : 2016-08-15  
No. : HM170375

Page 21 of 33

Fundamental Frequency [MHz]	20dB Bandwidth [kHz]	FCC Limits [MHz]
2440	743.2	Within 2400-2483.5

### (Middle Operating Frequency) - (GFSK)





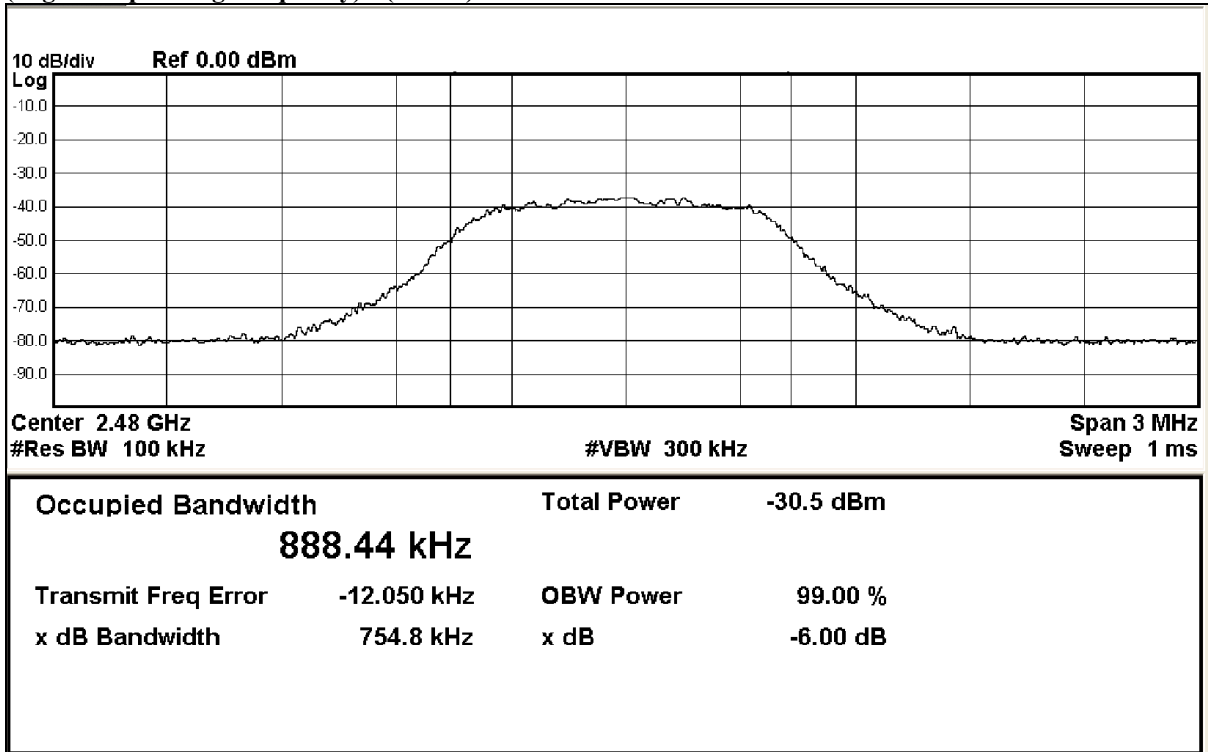
# STC Test Report

Date : 2016-08-15  
No. : HM170375

Page 22 of 33

Fundamental Frequency [MHz]	20dB Bandwidth [kHz]	FCC Limits [MHz]
2480	754.8	Within 2400-2483.5

### (Highest Operating Frequency) - (GFSK)



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## STC Test Report

**Date : 2016-08-15**

**No. : HM170375**

**Page 23 of 33**

### **3.1.5 Band Edges Measurement**

Test Requirement: FCC 47CFR 15.247  
Test Method: ANSI C63.10:2013  
Test Date: 2016-08-08  
Mode of Operation: On 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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# STC Test Report

Date : 2016-08-15

Page 24 of 33

No. : HM170375

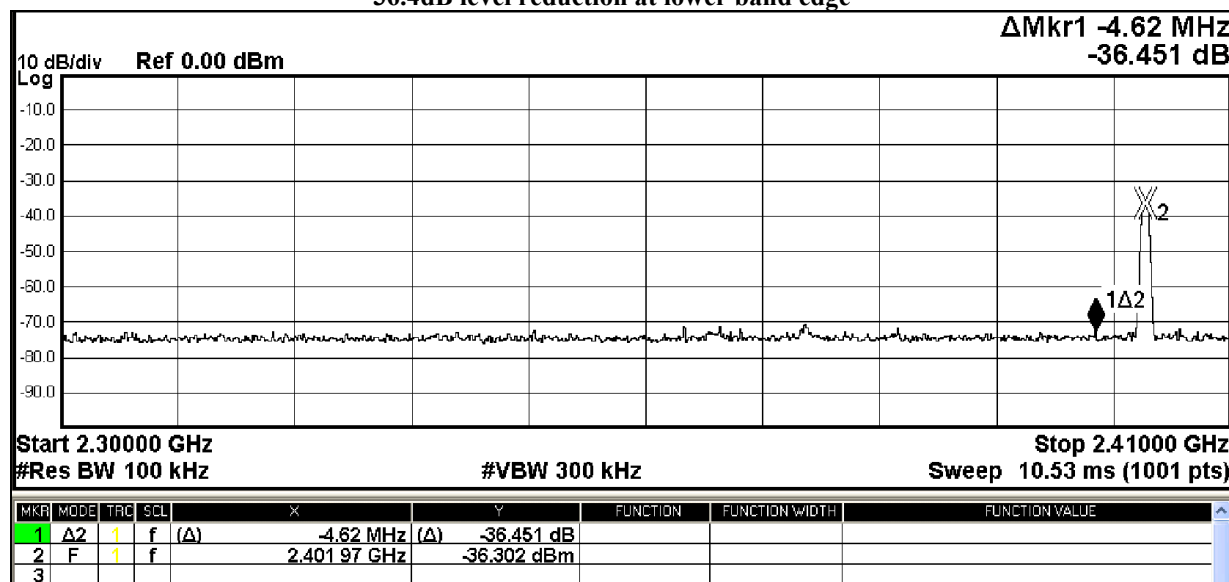
## Band-edge Compliance of RF Conducted Emissions Measurement:

### 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)	36.4

### 36.4dB level reduction at lower band edge



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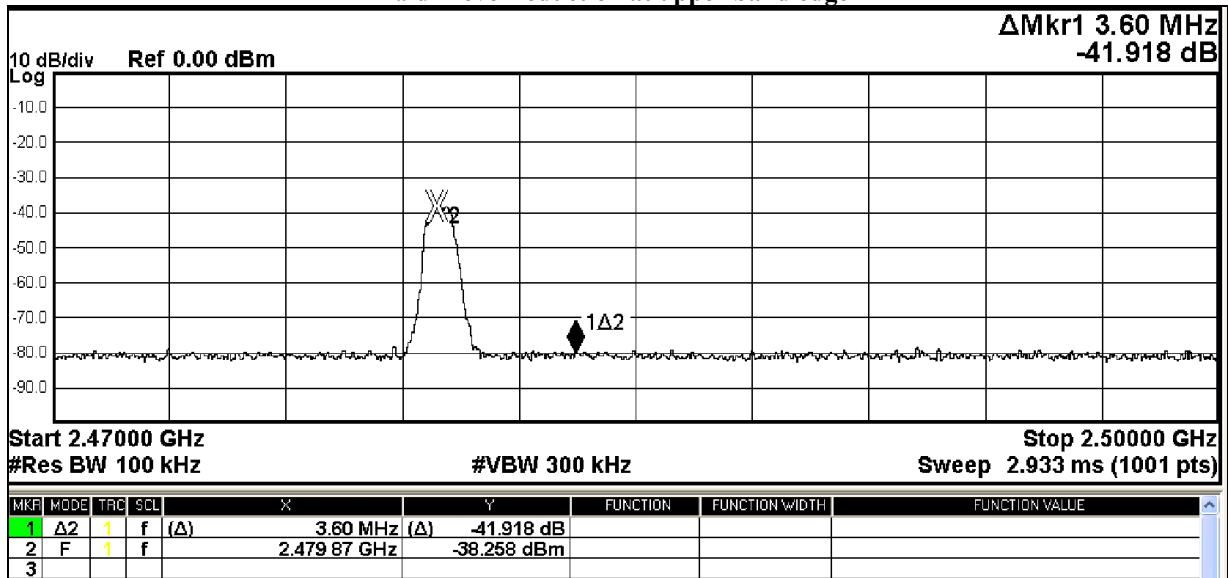
Date : 2016-08-15  
 No. : HM170375

Page 25 of 33

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

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
2483.5 - Highest Fundamental (2480)	41.9

### 41.9dB level reduction at upper band edge



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## STC Test Report

Date : 2016-08-15

Page 26 of 33

No. : HM170375

### 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 of on mode Band Edge measurement (GFSK mode) (1GHz – 18GHz): 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
2399.1	9.8	27.5	37.3	74.0	36.7	Horizontal
2488.6	8.8	27.5	36.3	74.0	37.7	Horizontal

### Result of on mode Band Edge measurement (GFSK mode) (1GHz – 18GHz): Pass

Field Strength of Spurious Emissions Average 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
2399.1	2.3	27.5	29.8	54.0	24.2	Horizontal
2488.6	2.9	27.5	30.4	54.0	23.6	Horizontal

#### Remarks:

\* 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): 2.4dB

(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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## STC Test Report

Date : 2016-08-15

No. : HM170375

Page 27 of 33

### 3.1.6 RF Exposure

Test Requirement: FCC 47CFR 15.247(i)

Test Date: 2016-08-08

Mode of Operation: On 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 = 0.051mW

$$\begin{aligned} P_d &= PG / 4\pi R^2 = (0.051 \times 0.708) / 12.566 \times (20)^2 \\ &= (0.036) / 12.566 \times 400 = 0.036 / 5026.4 \\ &= 0.000007184 \text{mW/cm}^2 \end{aligned}$$

where:

\*Pd = power density in mW/cm<sup>2</sup>

\* G = Antenna numeric gain (0.708); Log G = g/10 ( g = -1.5dBi ).

\* P = Conducted RF power to antenna (0.051mW).

\* R = Minimum allowable distance.(20 cm)

\*The power density Pd = 0.000007184mW/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 : 2016-08-15

No. : HM170375

Page 28 of 33

### Appendix A

#### List of Measurement Equipment

##### Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM299	DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA	ETS-LINDGREN	3115	00114120	2016/04/27	2018/04/27
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2016/04/24	2017/04/24
EM354	BICONILOG ANTENNA	ETS-LINDGREN	3143B	00142073	2016/02/29	2018/02/29
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2016/06/01	2017/06/01
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2016/03/16	2018/03/16
EM299	DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA	ETS-LINDGREN	3115	00114120	2016/04/27	2018/04/27
EM302	PRECISION OMNIDIRECTIONAL DIPOLE (1 – 6GHZ)	SEIBERSDORF LABORATORIES	POD 16	161806/L	2016/05/11	2018/05/11
EM303	PRECISION OMNIDIRECTIONAL DIPOLE (6 – 18GHZ)	SEIBERSDORF LABORATORIES	POD 618	6181908/L	2016/05/11	2018/05/11
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2016/05/13	2018/05/13
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2016/05/13	2018/05/13

#### Remarks:-

CM Corrective Maintenance  
N/A Not Applicable or Not Available  
TBD To Be Determined

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## STC Test Report

Date : 2016-08-15

Page 29 of 33

No. : HM170375

### Appendix C

### Photographs of EUT

**Front View of the product**



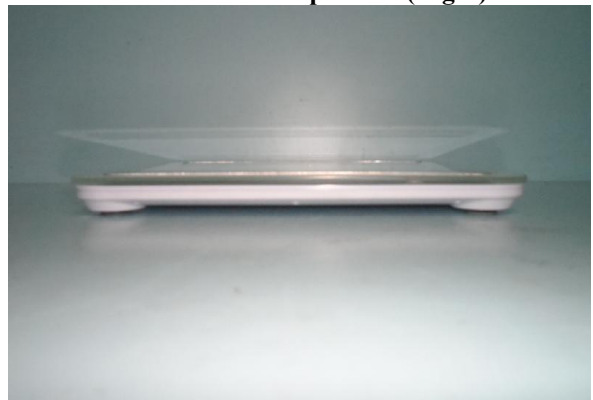
**Back View of the product**



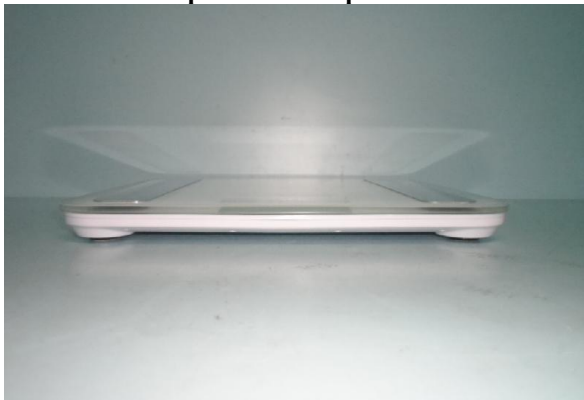
**Rear View of the product (Left)**



**Rear View of the product (Right)**



**Top View of the product**



**Bottom View of the product**



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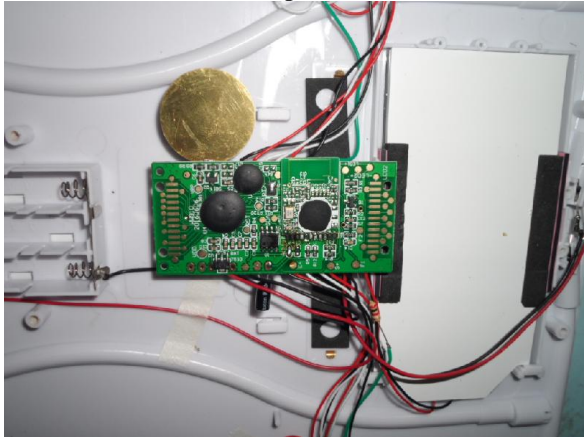
Date : 2016-08-15

Page 30 of 33

No. : HM170375

### Photographs of EUT

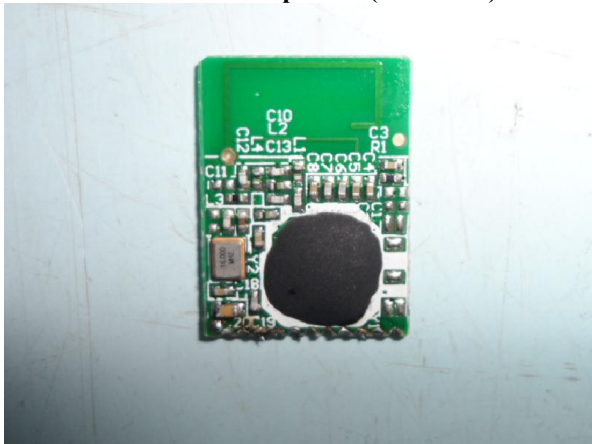
**Inner Circuit Top View – All PCBs**



**Inner Circuit Bottom View -- All PCBs**



**Inner Circuit Top View (Bluetooth)**



**Inner Circuit Bottom View (Bluetooth)**



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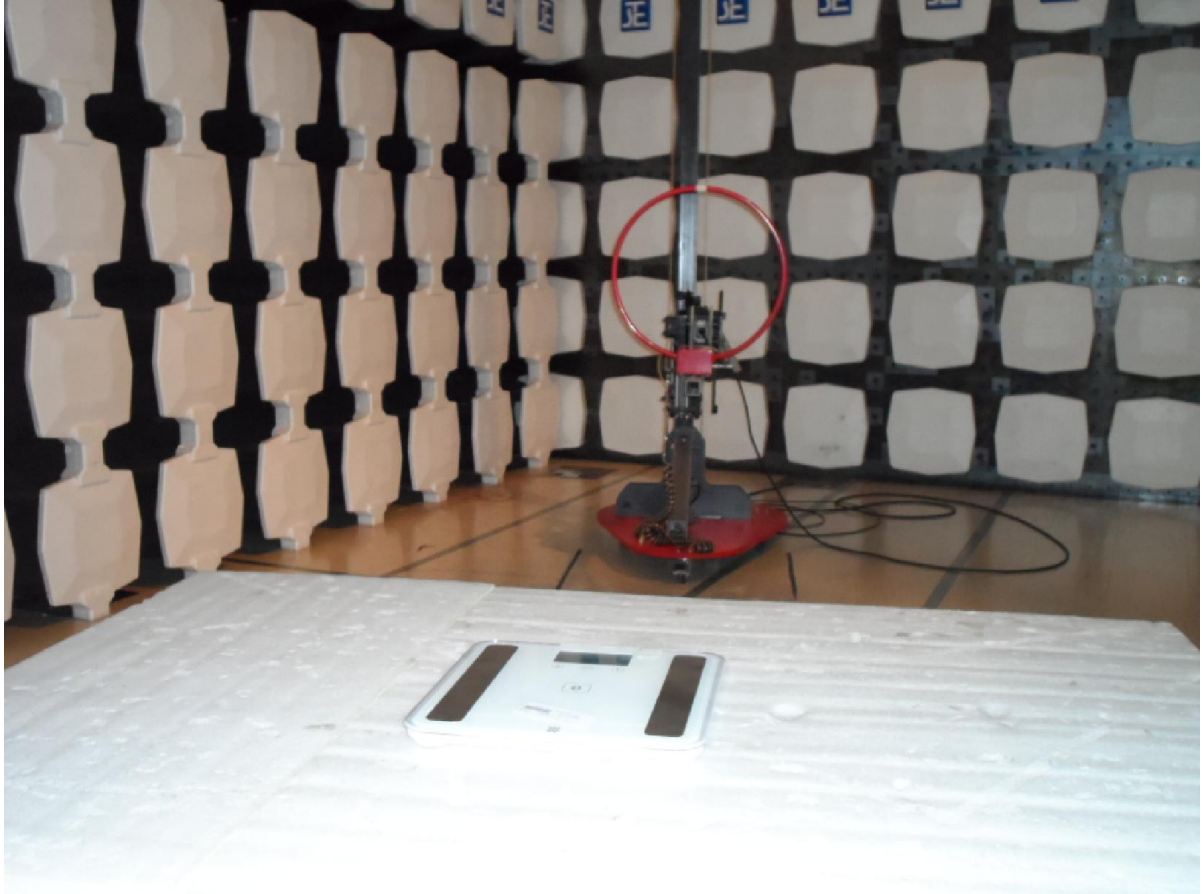
## STC Test Report

Date : 2016-08-15  
No. : HM170375

Page 31 of 33

Photographs of EUT

Measurement of Radiated Emission Test Set Up



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Date : 2016-08-15  
No. : HM170375

Page 32 of 33

### Photographs of EUT

Measurement of Radiated Emission Test Set Up (30MHz – 1GHz)



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## STC Test Report

Date : 2016-08-15  
No. : HM170375

Page 33 of 33

### Photographs of EUT

Measurement of Radiated Emission Test Set Up



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

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