



## **STC Test Report**

**Date:** 2016-01-21  
**No.:** DM122293

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**Applicant:** Pulse Play LTD  
Hacharuv 8, Risphon, Israel

**Manufacturer:** Global Brands Manufacture Limited  
EMS Business Unit, Block F, Yuen Yuen Industrial Estate,  
Huang Jiang Town, Dong Guan City, Guang Dong Province,  
China

**Description of Sample(s):** Submitted sample(s) said to be  
Product: Pulse Play  
Brand Name: Pulse-play  
Model Number: G1AR16  
FCC ID: 2AG9X-2425

**Date Sample(s) Received:** 2016-01-14

**Date Tested:** 2016-01-14 to 2016-01-20

**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 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: Pulse Play  
Manufacturer: Global Brands Manufacture Limited  
EMS Business Unit, Block F, Yuen Yuen Industrial Estate,  
Huang Jiang Town, Dong Guan City, Guang Dong Province,  
China  
Brand Name: Pulse-play  
Model Number: G1AR16  
Rating: 5.0Vd.c. (Powered by USB port) / Li-ion rechargeable battery  
x1 = 3.7Vd.c

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

The Equipment Under Test (EUT) is a Pulse Play. The transmission signal is digital modulated with channel frequency range 2402-2480MHz. The R.F. signal was modulated by IC; the type of modulation used was frequency hopping spread spectrum Modulation.

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

2015-08-26

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

1 Sample

#### **1.5 Test Duration**

2015-09-01 to 2015-11-25

#### **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.

According FCC KDB 558074 DTS Measurement Guidance, Duty cycle  $\geq 98\%$ .

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 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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### **3.0 Test Results**

#### **3.1 Emission**

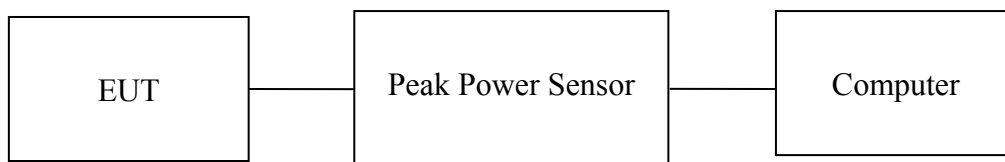
##### **3.1.1 Maximum Peak Output Power**

Test Requirement:	FCC 47CFR 15.247(b)(3)
Test Method:	N/A
Test Date:	2016-01-18
Mode of Operation:	Tx mode

#### **Test Method:**

The RF output of the EUT was connected to the peak power sensor, and the level measured by the peak power sensor will be displayed on the computer. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in W.

#### **Test Setup:**



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

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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)

<b>Results of Tx Mode GFSK (2402MHz to 2480MHz) : Pass (Tx Unit)</b>		
<b>Maximum conducted output power</b>		
<b>Channel</b>	<b>Frequency(MHz)</b>	<b>Output Power(Watt)</b>
Low	2402	0.000507
Middle	2440	0.000411
High	2480	0.000429

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

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### **3.1.2 Radiated Emissions**

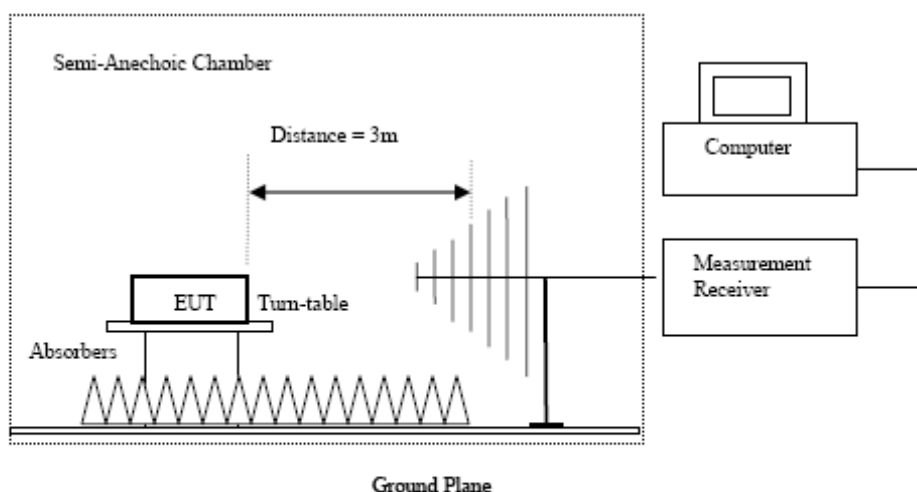
Test Requirement:	FCC 47CFR 15.209
Test Method:	ANSI C63.10:2013
Test Date:	2016-01-18
Mode of Operation:	Tx mode

#### **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 “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 [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 Tx mode (2402.0 MHz) (GFSK) (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 (2402.0 MHz) (GFSK) (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
4804.0	17.4	41.5	58.9	74.0	15.1	Vertical
4804.0	15.4	42.4	57.8	74.0	16.2	Horizontal
7206.0	10.9	45.1	56.0	74.0	18.0	Vertical
7206.0	9.7	46.2	55.9	74.0	18.1	Horizontal
9612.0	7.7	48	55.7	74.0	18.3	Vertical
9612.0	6.5	48.8	55.3	74.0	18.7	Horizontal
12010.0	4.7	51.5	56.2	74.0	17.8	Vertical
12010.0	3.5	52.4	55.9	74.0	18.1	Horizontal

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**Result of Tx mode (2402.0 MHz) (GFSK) (1GHz-26GHz): Pass**

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
MHz	Level @3m dBuV	Factor dB/m	Strength dBuV/m	@3m dBuV/m	dBuV/m	Polarity
4804.0	4.0	41.5	45.5	54.0	8.5	Vertical
4804.0	1.8	42.4	44.2	54.0	9.8	Horizontal
7206.0	-2.0	45.1	43.1	54.0	10.9	Vertical
7206.0	-4.0	46.2	42.2	54.0	11.8	Horizontal
9612.0	-8.0	48.0	40.0	54.0	14.0	Vertical
9612.0	-8.5	48.8	40.3	54.0	13.7	Horizontal
12010.0	-9.6	51.5	41.9	54.0	12.1	Vertical
12010.0	-11.3	52.4	41.1	54.0	12.9	Horizontal

**Result of Tx mode (2440.0 MHz) (GFSK) (9kHz – 30MHz): Pass**

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

**Result of Tx mode (2440.0 MHz) (GFSK) (1GHz-26GHz): Pass**

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
MHz	Level @3m dBμV	Factor dB/m	Strength dBμV/m	@3m dBμV/m	dBμV/m	Polarity
4880.0	17.4	41.6	59.0	74.0	15.0	Vertical
4880.0	16.1	42.5	58.6	74.0	15.4	Horizontal
7320.0	10.8	45.2	56.0	74.0	18.0	Vertical
7320.0	9.8	46.3	56.1	74.0	17.9	Horizontal
9760.0	7.7	48.1	55.8	74.0	18.2	Vertical
9760.0	6.7	48.9	55.6	74.0	18.4	Horizontal
12200.0	4.3	51.6	55.9	74.0	18.1	Vertical
12200.0	3.6	52.5	56.1	74.0	17.9	Horizontal

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**Result of Tx mode (2440.0 MHz) (GFSK) (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	4.5	41.6	46.1	54.0	7.9	Vertical
4880.0	2.9	42.5	45.4	54.0	8.6	Horizontal
7320.0	-2.0	45.2	43.2	54.0	10.8	Vertical
7320.0	-2.8	46.3	43.5	54.0	10.5	Horizontal
9760.0	-6.2	48.1	41.9	54.0	12.1	Vertical
9760.0	-8.1	48.9	40.8	54.0	13.2	Horizontal
12200.0	-11.6	51.6	40.0	54.0	14.0	Vertical
12200.0	-10.8	52.5	41.7	54.0	12.3	Horizontal

**Result of Tx mode (2480.0 MHz) (GFSK) (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 (2480.0 MHz) (GFSK) (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
4960.0	17.9	41.4	59.3	74.0	14.7	Vertical
4960.0	15.4	42.7	58.1	74.0	15.9	Horizontal
7440.0	9.7	45.6	55.3	74.0	18.7	Vertical
7440.0	9.3	46.5	55.8	74.0	18.2	Horizontal
9920.0	7.0	48.6	55.6	74.0	18.4	Vertical
9920.0	5.7	49.7	55.4	74.0	18.6	Horizontal
12400.0	4.6	51.4	56.0	74.0	18.0	Vertical
12400.0	3.5	52.7	56.2	74.0	17.8	Horizontal

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Result of Tx mode (2480.0 MHz) (GFSK) (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
4960.0	5.0	41.4	46.4	54.0	7.6	Vertical
4960.0	2.5	42.7	45.2	54.0	8.8	Horizontal
7440.0	-4.2	45.6	41.4	54.0	12.6	Vertical
7440.0	-4.2	46.5	42.3	54.0	11.7	Horizontal
9920.0	-8.4	48.6	40.2	54.0	13.8	Vertical
9920.0	-9.4	49.7	40.3	54.0	13.7	Horizontal
12400.0	-10.2	51.7	41.5	54.0	12.5	Vertical
12400.0	-10.8	52.7	41.9	54.0	12.1	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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### Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

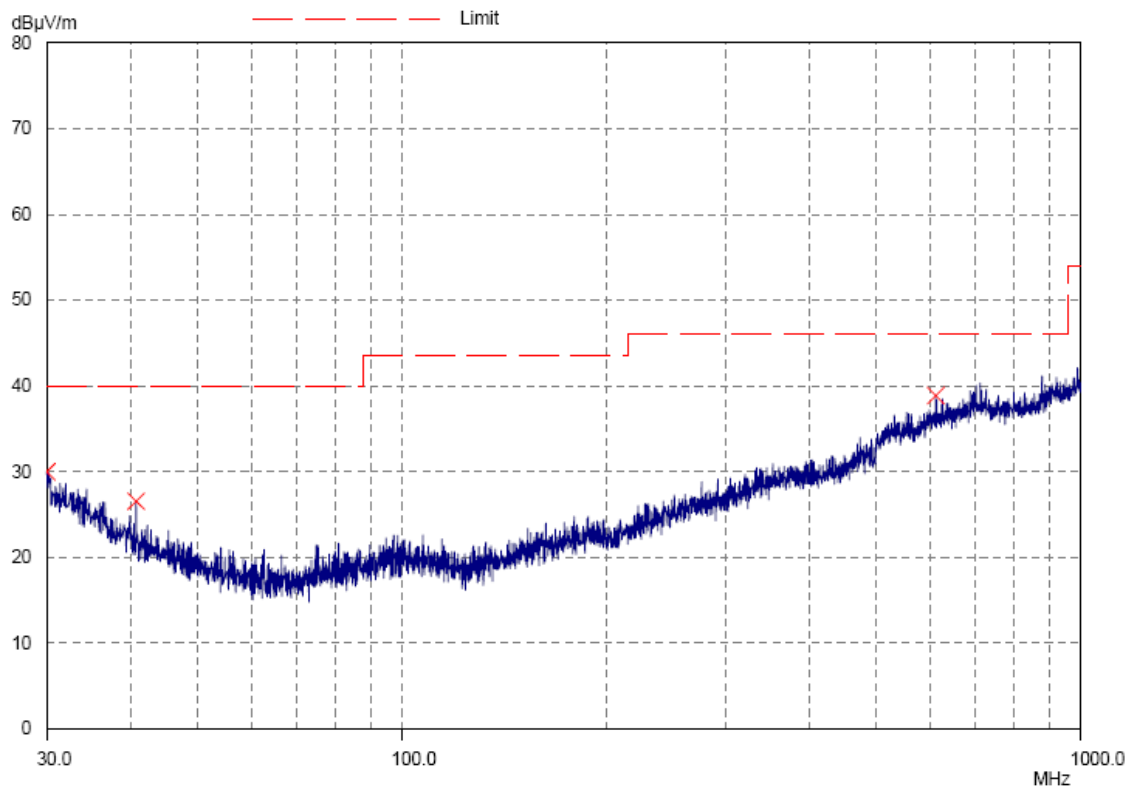
Frequency Range	Quasi-Peak Limits
[MHz]	[ $\mu$ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

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 (30MHz – 1GHz): Pass

Please refer to the following table for result details

#### Horizontal



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**Result of Tx mode (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 $\mu$ V/m	Limit @3m $\mu$ V/m
30.0	Horizontal	30.0	40.0	31.6	100
40.6	Horizontal	26.5	40.0	21.1	100
612.8	Horizontal	38.9	46.0	88.1	200

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

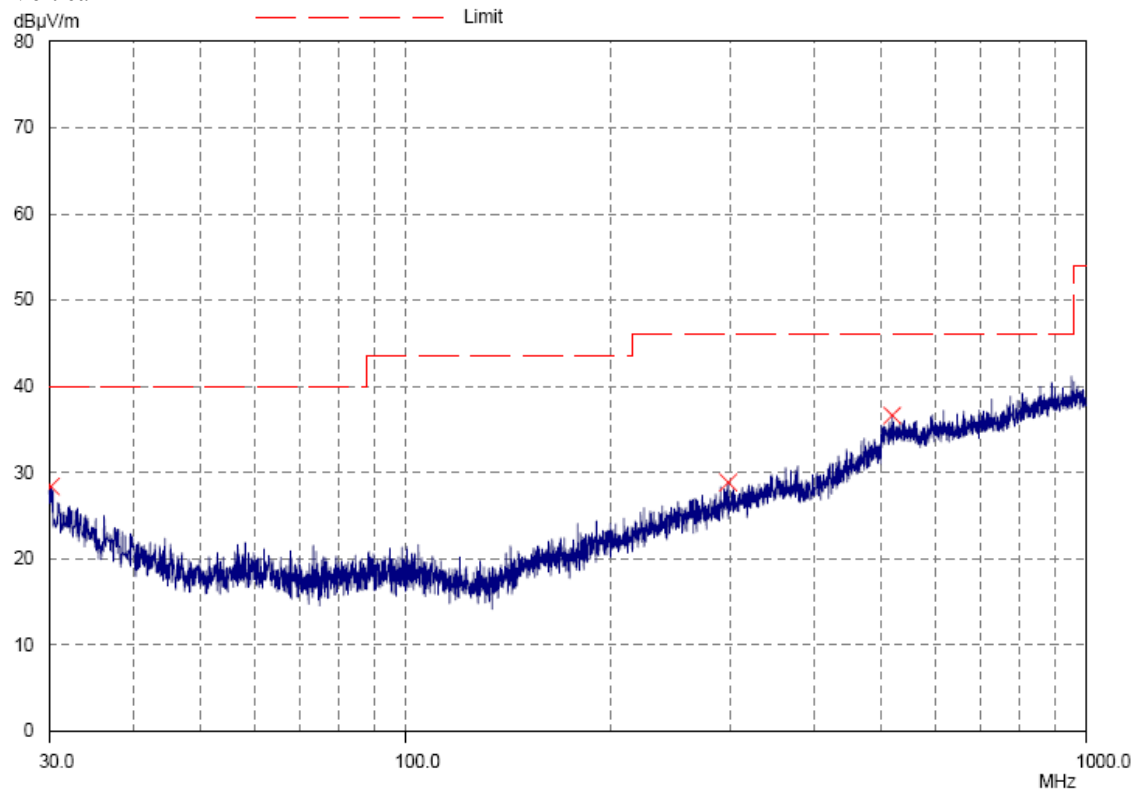
Frequency Range	Quasi-Peak Limits
[MHz]	[ $\mu$ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

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 (30MHz – 1GHz): Pass

Please refer to the following table for result details

Vertical



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

<b>Radiated Emissions</b>					
<b>Quasi-Peak</b>					
Emission Frequency MHz	E-Field Polarity	Level @3m dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Level @3m $\mu$ V/m	Limit @3m $\mu$ V/m
30.2	Vertical	28.4	40.0	26.3	100
298.4	Vertical	28.9	46.0	27.9	200
519.5	Vertical	36.6	46.0	67.6	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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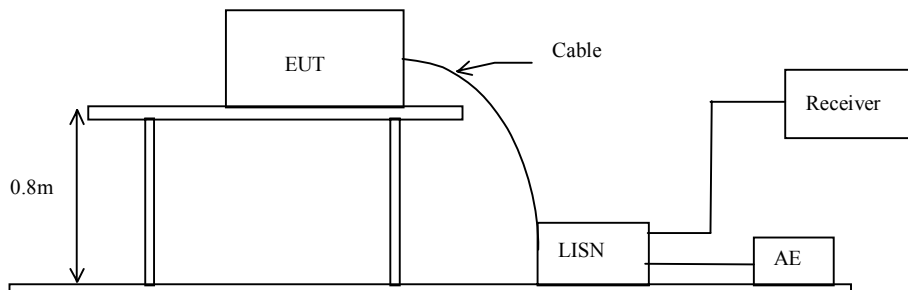
### **3.1.3 AC Mains Conducted Emissions (0.15MHz to 30MHz)**

Test Requirement:	FCC 47CFR 15.207
Test Method:	ANSI C63.10:2013
Test Date:	2016-01-15
Mode of Operation:	Tx mode
Test Voltage:	120Va.c. 60Hz

#### **Test Method:**

The test was performed in accordance with ANSI C63.10:2013, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

#### **Test Setup:**



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### Limit for Conducted Emissions (FCC 47 CFR 15.207):

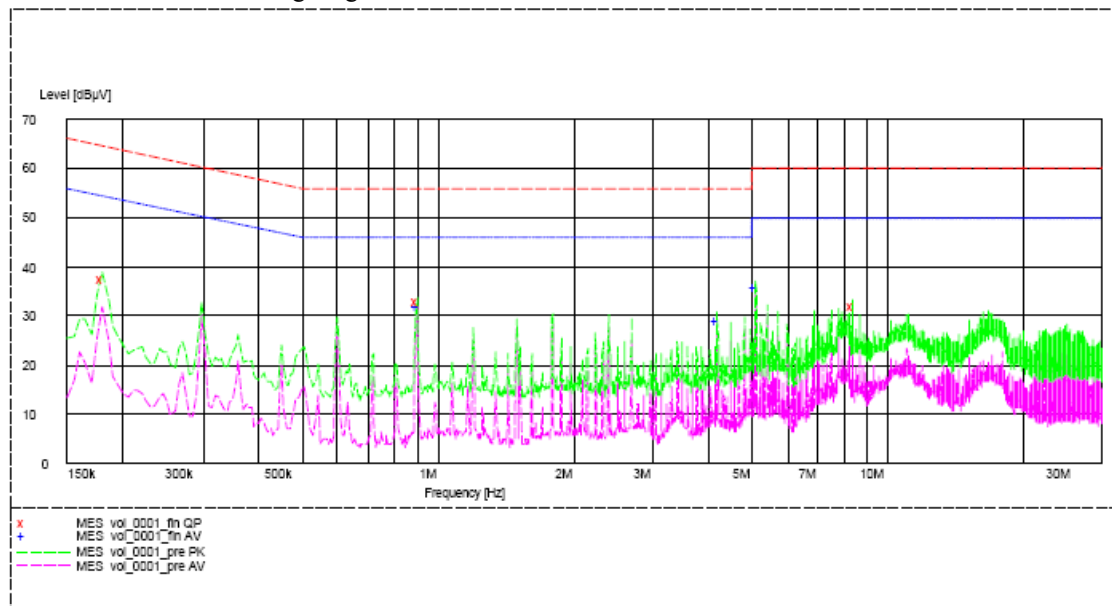
Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

\* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

### Result of Tx mode (L): PASS

Please refer to the following diagram for individual results.



Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBμV	Limit dBμV	Level dBμV	Limit dBμV
Live	0.180	37.3	65.0	-*-	-*-
Live	0.900	33.0	56.0	-*-	-*-
Live	8.395	32.2	60.0	-*-	-*-
Live	0.900	-*-	-*-	32.0	46.0
Live	4.195	-*-	-*-	28.8	46.0
Live	5.095	-*-	-*-	35.9	50.0

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### Limit for Conducted Emissions (FCC 47 CFR 15.207):

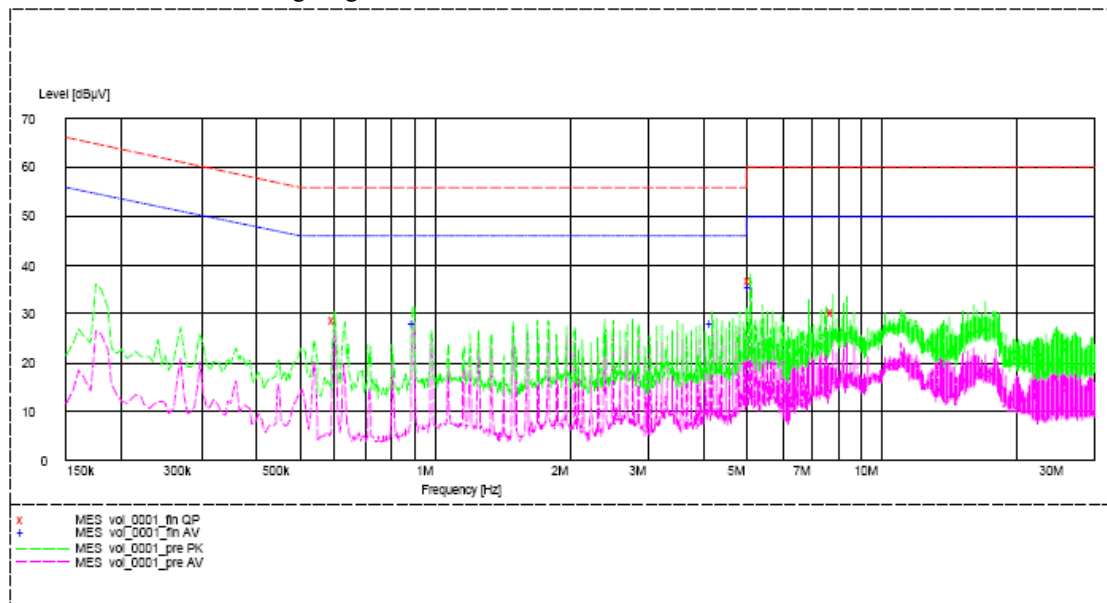
Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

\* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

### Result of Tx mode (N): PASS

Please refer to the following diagram for individual results.



Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBμV	Limit dBμV	Level dBμV	Limit dBμV
Neutral	0.600	28.5	56.0	-*-	-*-
Neutral	5.095	36.8	60.0	-*-	-*-
Neutral	7.790	30.5	60.0	-*-	-*-
Neutral	0.900	-*-	-*-	28.3	46.0
Neutral	4.195	-*-	-*-	28.4	46.0
Neutral	5.095	-*-	-*-	35.6	50.0

Remarks:

Calculated measurement uncertainty (0.15MHz – 30MHz): 3.25dB

-\*- Emission(s) that is far below the corresponding limit line.

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### **3.1.4 Power Spectral Density**

Test Requirement: FCC 47CFR 15.247(e)  
Test Method: ANSI C63.10:2013  
Test Date: 2016-01-14  
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.

#### **Results of Tx Mode GFSK (Tx:2402MHz to 2480MHz) : 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>
2402.0	-15.53	<b>8dBm</b>
2440.0	-15.26	<b>8dBm</b>
2480.0	-16.55	<b>8dBm</b>

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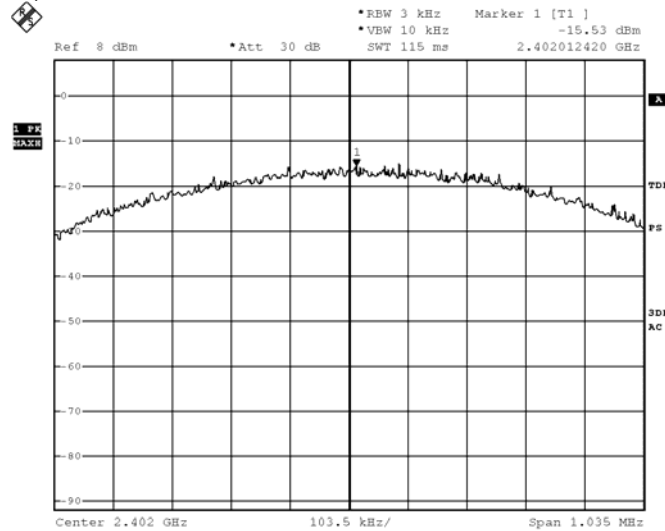
Date: 2016-01-21

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Tx mode GFSK (Tx: 2402MHz to 2480MHz)

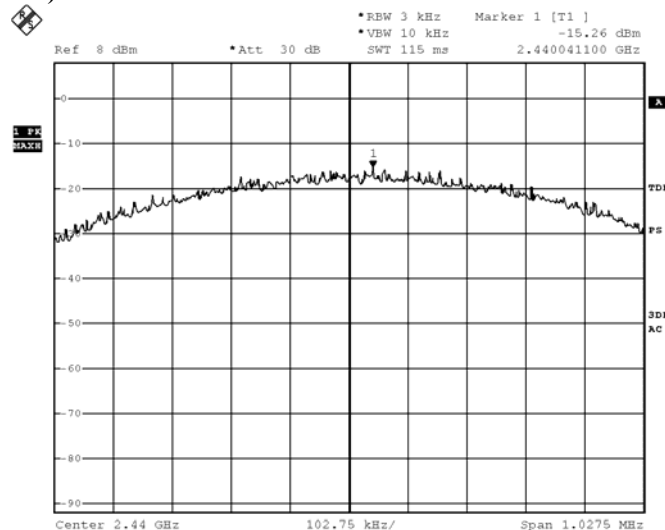
CH 0 (2402.0 MHz)



BMP

Date: 14.JAN.2016 15:30:50

CH 19 (2440.0 MHz)



BMP

Date: 14.JAN.2016 15:27:41

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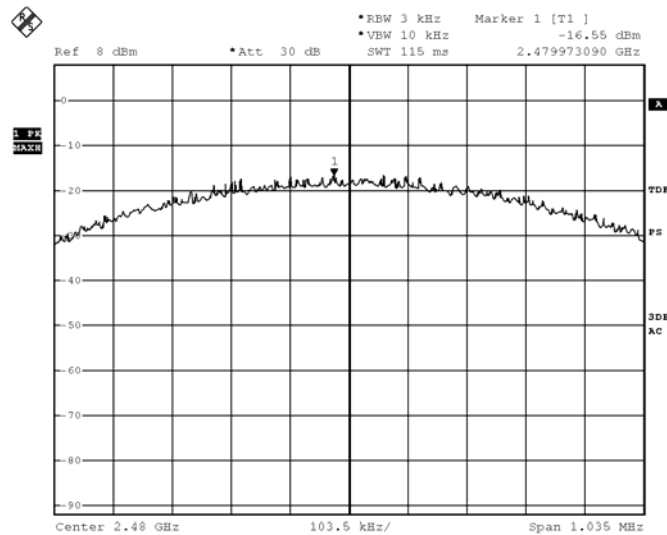
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CH 39 (2480.0 MHz)



BMP

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## **STC Test Report**

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### **3.1.5 6dB Spectrum Bandwidth Measurement**

Test Requirement:	FCC 47CFR 15.247(a)(2)
Test Method:	ANSI C63.10:2013
Test Date:	2016-01-14
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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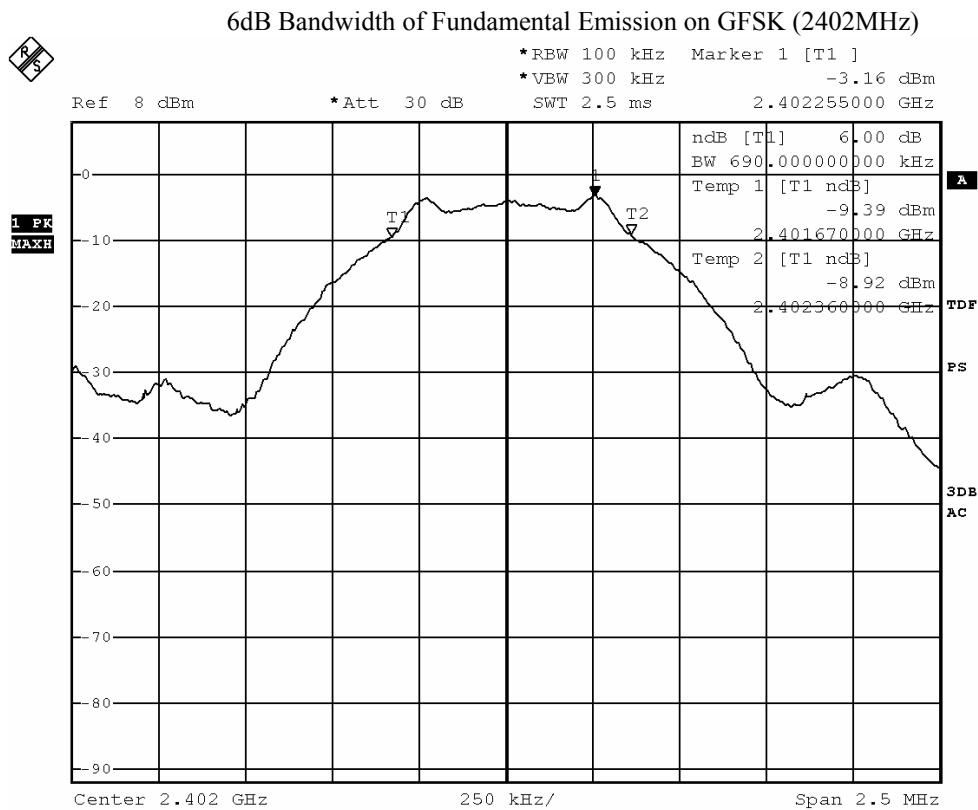
Date: 2016-01-21

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### Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency [MHz]	6dB Bandwidth [KHz]	FCC Limits [kHz]
2402.0	690.0	> 500



BMP

Date: 14.JAN.2016 15:24:54

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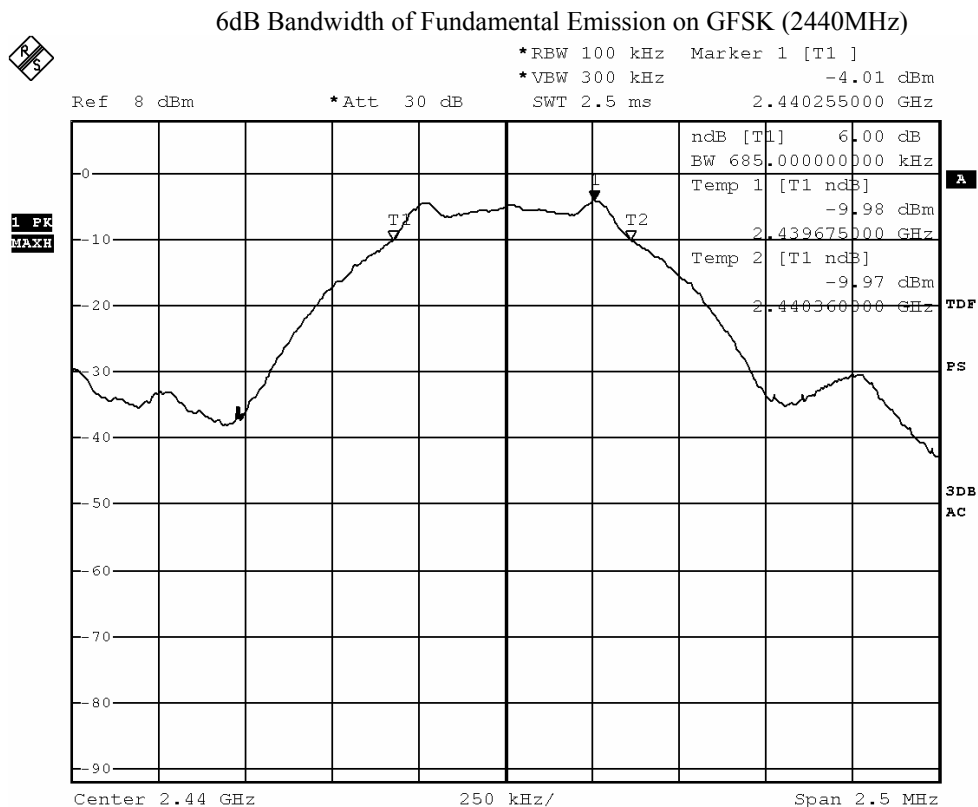
Date: 2016-01-21

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### Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [KHz]	FCC Limits [kHz]
2440.0	685.0	> 500



BMP

Date: 14.JAN.2016 15:26:17

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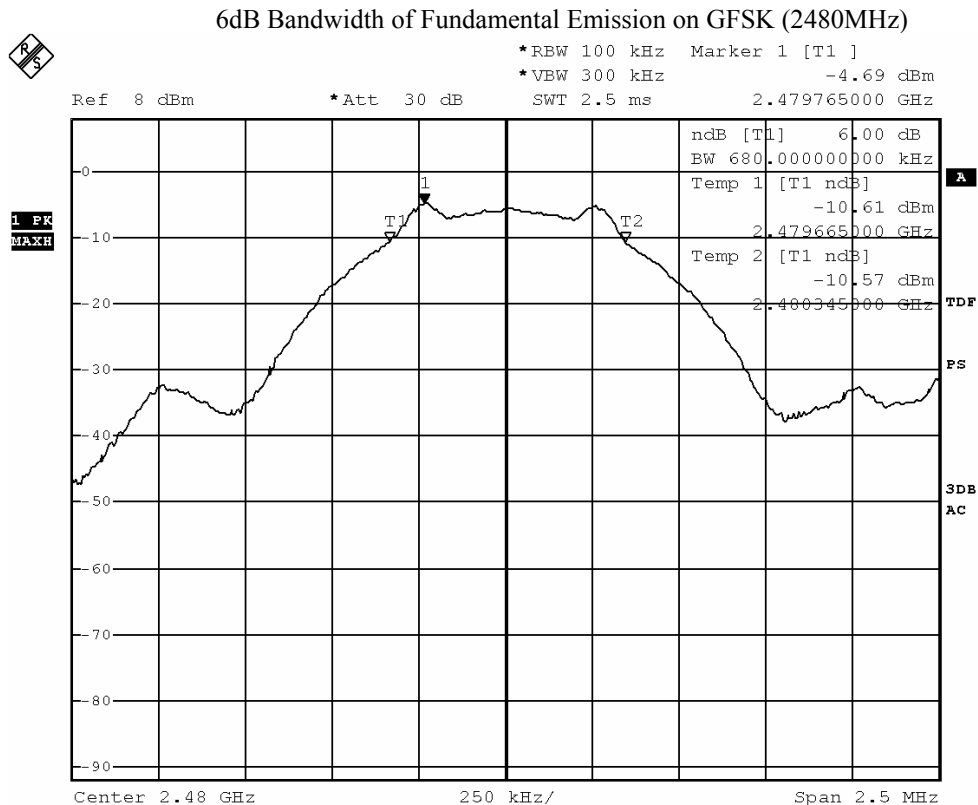
Date: 2016-01-21

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### Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [KHz]	FCC Limits [kHz]
2480.0	680.0	> 500



BMP

Date: 14.JAN.2016 15:23:03

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### **3.1.6 Band Edges Measurement**

Test Requirement:	FCC 47CFR 15.247
Test Method:	ANSI C63.10:2013
Test Date:	2016-01-14
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 are 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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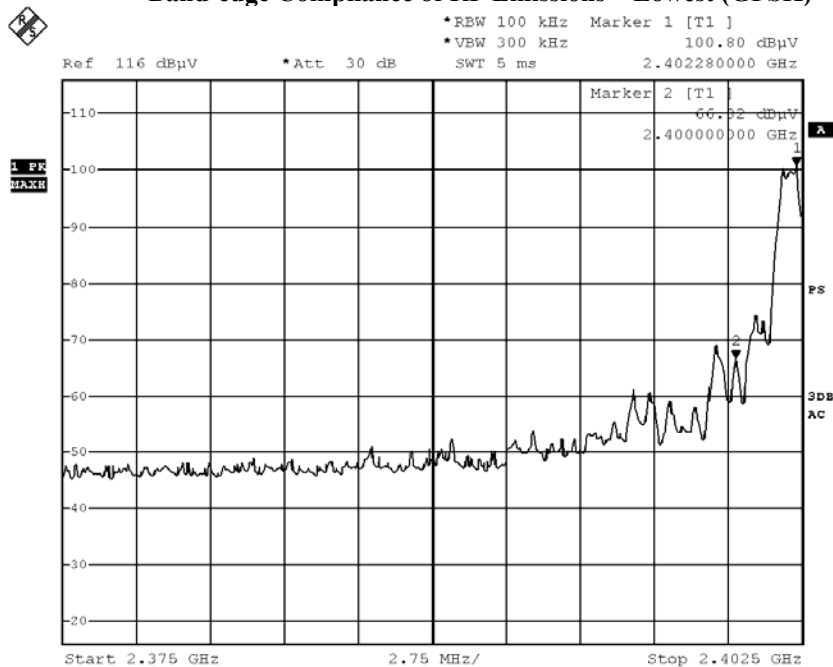
### Band-edge Compliance of RF Conducted Emissions Measurement:

#### 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	Radiated Emission Attenuated below the Fundamental
[MHz]	[dB]
2400 – Lowest Fundamental (2402)	34.48

### Band-edge Compliance of RF Emissions – Lowest (GFSK)



BMP

Date: 14.JAN.2016 15:32:13

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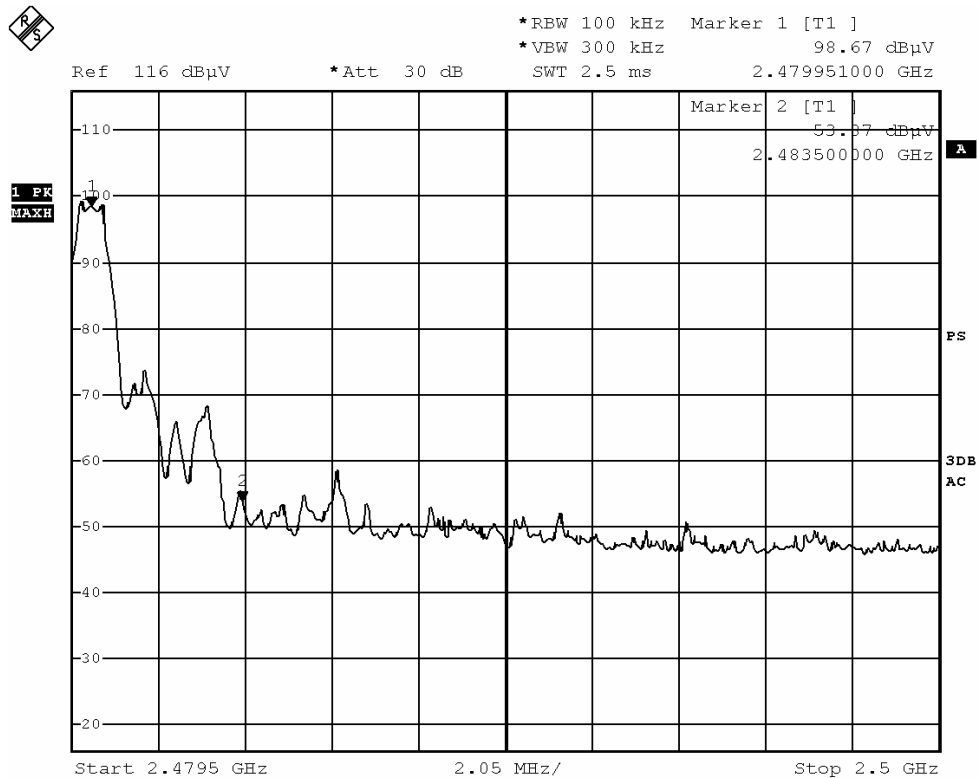
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### Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Radiated Emission Attenuated below the Fundamental
[MHz]	[dB]
2483.5 - Highest Fundamental (2480)	45.3

### Band-edge Compliance of RF Emissions – Highest (GFSK)



BMP

Date: 14.JAN.2016 15:34:23

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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)-GFSK

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
2389.4	15.0	36.8	51.8	74.0	22.2	Vertical
2390.0	12.2	36.8	49.0	74.0	25.0	Vertical

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
2389.4	1.4	36.8	38.2	54.0	15.8	Vertical
2390.0	0.8	36.8	37.6	54.0	16.4	Vertical

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

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
2485.8	20.9	36.4	57.3	74.0	16.7	Horizontal
2483.5	16.7	36.4	53.1	74.0	20.9	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
2485.8	5.9	36.4	42.3	54.0	11.7	Horizontal
2483.5	3.8	36.4	40.2	54.0	13.8	Horizontal

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### **3.1.7 RF Exposure**

Test Requirement: FCC 47CFR 15.247(i)  
Test Date: 2016-01-21  
Mode of Operation: Tx mode

#### **Requirements:**

In 15.247(i), an equipment shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the limits in §§ 1.1310 and 2.1093 of this chapter. Applications to the Commission for construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities must contain a statement confirming compliance with the limits unless the facility, operation, or transmitter is categorically excluded, as discussed below. Technical information showing the basis for this statement must be submitted to the Commission upon request.

According to KDB447498 D01 General RF Exposure Guidance v06, unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition.

#### **Test Results:**

For 100 MHz to 6 GHz and *test separation distances*  $\leq 50$  mm, the 1-g and 10-g SAR *test exclusion thresholds* are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{GHz}}}] \leq 3.0$$
 for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR, where  $f_{\text{GHz}}$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

The values 3.0 and 7.5 are referred to as *numeric thresholds* in step b) below

The test exclusions are applicable only when the minimum *test separation distance* is  $\leq 50$  mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is  $< 5$  mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

#### **RF Exposure Evaluation**

$$[(0.507 \text{ mW}) / (5 \text{ mm})] \times [\sqrt{(2.402)}] \leq 3.0.$$

**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	2016.03.24
EMD022	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESCS30	100314	2015.3.24	2016.03.24
EMD035	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESCI	100441	2015.3.24	2016.03.24
EMD036	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB 26	100388	2015.3.24	2016.03.24
EMD041	TWO-LINE V-NETWORK	ROHDE & SCHWARZ	ENV216	100261	2015.3.24	2016.03.24
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 CONTOL UNIT	ETS.LINDGREN	Y21953A	2601073	N/A	N/A
EMD093	MONITOR	VIEWSONIC	VA9036	Q8X064201876	N/A	N/A
EMD102	INTELLIGENT FREQUENCY	AINUO LNSTRUMENT CO., LTD	AN97005SS	79707454	N/A	N/A
EMD103	INTELLIGENT FREQUENCY	AINUO LNSTRUMENT 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	2016.03.24
	100V INSERTION UNIT	ROHDE & SCHWARZ	URV5-Z4	100464	2015.3.24	2016.03.24
EMD113	PRE-AMPLIFIER	ROHDE & SCHWARZ	N/A	1129588	2015.3.24	2016.03.24
EMD124	LOOP ANTENNA	ETS-LINDGREN	6502	00104905	2014.04.28	2016.04.28
EMD131	STANDARD GAIN HORN ANTENNA (18GHZ – 26.5GHZ)	CHENGDU AINFO LNC.	JXTxLB-42-15-C-KF	J2021100721001	2015.04.09	2017.04.09
RE01	RF CABLE	N/A	N/A	N/A	2015-9-28	2016.09.27
RE02	RF CABLE	N/A	N/A	N/A	2015-9-28	2016.09.27

Remarks:-

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

### Appendix B

#### Ancillary Equipment

ITEM NO.	DESCRIPTION	MODEL NO.	FCC ID	REMARK
1	DELL COMPUTER	DMC	N/A	N/A

#### STC (Dongguan) Company Limited

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### **Appendix C**

#### **Photographs of EUT**

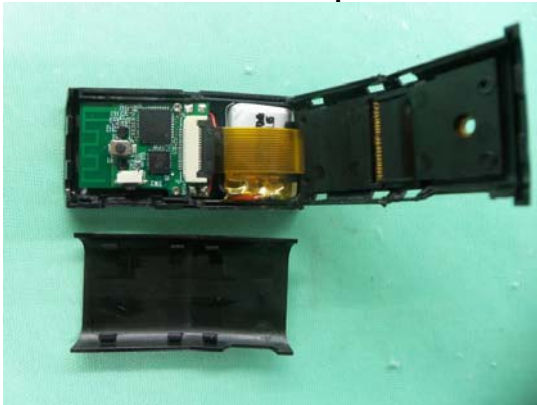
**Front View of the product**



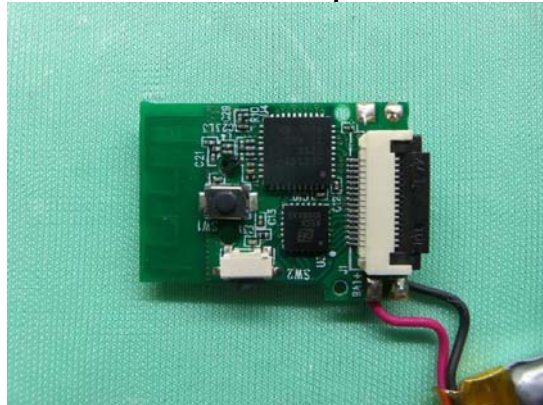
**Rear View of the product**



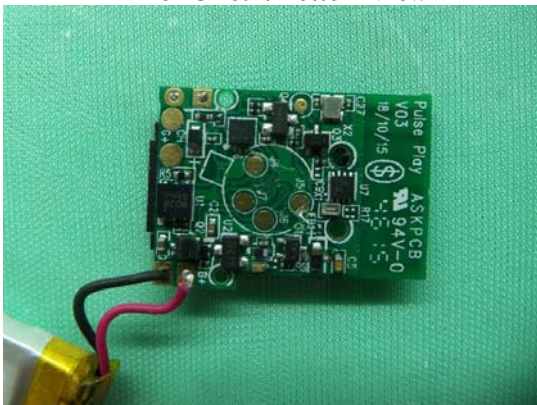
**Inside View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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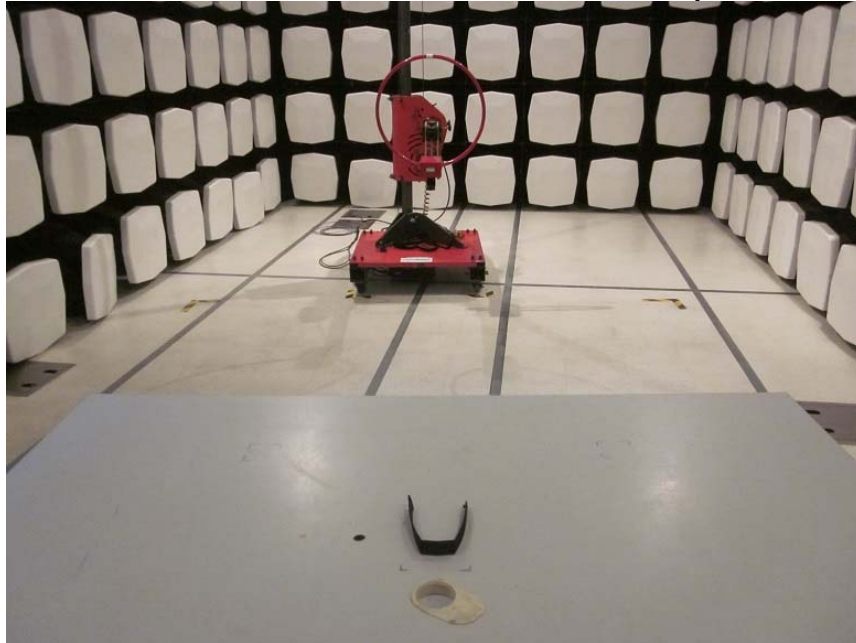
**Date: 2016-01-21**

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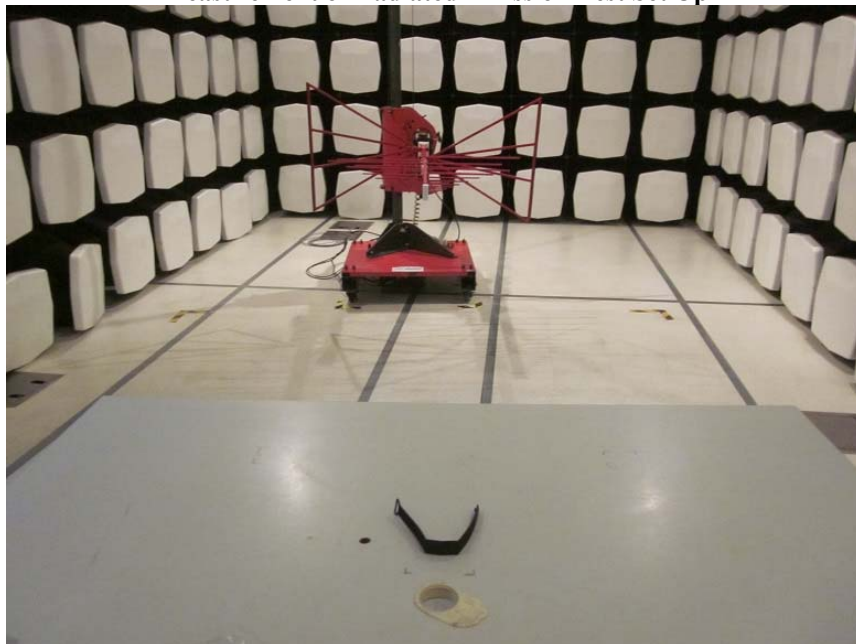
**No.: DM122293**

**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**



**Measurement of Conducted Emission Test Set Up**



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

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