

# TEST REPORT

of

FCC Part 15 Subpart C §15.247

FCC ID : BEJHBS850

Equipment Under Test : Bluetooth Stereo Headset  
Model Name : HBS-850  
Applicant : LG Electronics USA  
Manufacturer : Bluecom Co., Ltd.  
Date of Test(s) : 2016. 02. 02. ~ 2016. 02. 11.  
Date of Issue : 2016. 02. 12.

In the configuration tested, the EUT complied with the standards specified above.

Tested By:



Date:

2016. 02. 12.

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Wonjun Sim

Approved By:



Date:

2016. 02. 12.

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Hyunchoe You

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RTT5041-20(2015.10.01)(3)

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A4(210mm x 297mm)

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## 1. General Information

### 1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

-Wireless Div. 2FL, 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>.

Phone No. : + 82 31 688 0901

Fax No. : + 82 31 688 0921

### 1.2. Details of Applicant

Applicant : LG Electronics USA

Address : 1000 Sylvan Avenue, Englewood Cliffs, New Jersey 07632 United States

Contact Person : Lee, Jong-Chul

Phone No. : +2 01 408 9181

### 1.3. Description of EUT

<b>Kind of Product</b>	Bluetooth Stereo Headset
<b>Model Name</b>	HBS-850
<b>Power Supply</b>	DC 3.7 V
<b>Frequency Range</b>	2 402 MHz ~ 2 480 MHz
<b>Modulation Technique</b>	GFSK, $\pi/4$ DQPSK, 8DPSK
<b>Number of Channels</b>	79 channels
<b>Antenna Type</b>	Internal type
<b>Antenna Gain</b>	1.58 dBi
<b>H/W Version</b>	1.0
<b>S/W Version</b>	1.0

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#### 1.4. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal Date	Cal Interval	Cal Due.
Signal Generator	Agilent	E8257D	MY51501169	Jul. 13, 2015	Annual	Jul. 13, 2016
Spectrum Analyzer	Agilent	N9020A	MY53421758	Sep. 24, 2015	Annual	Sep. 24, 2016
Bluetooth Tester	TESCOM	TC-3000C	3000C000495	Apr. 27, 2015	Annual	Apr. 27, 2016
Directional Coupler	KRYTAR	152613	122660	Jun. 08, 2015	Annual	Jun. 08, 2016
High Pass Filter	Wainwright Instrument GmbH	WHK3.0/18G-6SS	4	Jun. 23, 2015	Annual	Jun. 23, 2016
High Pass Filter	Wainwright Instrument GmbH	WHK7.5/26.5G-6SS	15	Jun. 23, 2015	Annual	Jun. 23, 2016
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-2	Mar. 12, 2015	Annual	Mar. 12, 2016
Power Sensor	R&S	NRP-Z81	100669	Mar. 12, 2015	Annual	Mar. 12, 2016
DC Power Supply	Agilent	U8002A	MY53150029	Jun. 22, 2015	Annual	Jun. 22, 2016
Preamplifier	H.P.	8447F	2944A03909	Aug. 27, 2015	Annual	Aug. 27, 2016
Preamplifier	R&S	SCU-18	10117	Apr. 10, 2015	Annual	Apr. 10, 2016
Preamplifier	MITEQ Inc.	JS44-18004000-35-8P	1546891	May 07, 2015	Annual	May 07, 2016
Loop Antenna	R&S	HFH2-Z2	100118	Jun. 04, 2015	Biennial	Jun. 04, 2017
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9163	396	Jun. 18, 2015	Biennial	Jun. 18, 2017
Horn Antenna	R&S	HF906	100326	Oct. 16, 2014	Biennial	Oct. 16, 2016
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA9170	BBHA9170431	May 15, 2014	Biennial	May 15, 2016
Antenna Master	INN-CO	MM4000	N/A	N.C.R.	N/A	N.C.R.
Turn Table	INN-CO	DS 1200 S	N/A	N.C.R.	N/A	N.C.R.
Test Receiver	R&S	ESU26	100109	Mar. 03, 2015	Annual	Mar. 03, 2016
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A	N.C.R.

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## 1.5. Information about the FHSS characteristics:

### 1.5.1. Pseudorandom Frequency Hopping Sequence

The channel is represented by a pseudo-random hopping sequence hopping through the 79 RF channels. The hopping sequence is unique for the piconet and is determined by the Bluetooth device address of the master; the phase in the hopping sequence is determined by the Bluetooth clock of the master. The channel is divided into time slots where each slot corresponds to an RF hop frequency. Consecutive hops correspond to different RF hop frequencies. The nominal hop rate is 1 600 hops/s.

### 1.5.2. Equal Hopping Frequency Use

The channels of this system will be used equally over the long-term distribution of the hopsets.

### 1.5.3. Example of a 79 hopping sequence in data mode:

02, 05, 31, 24, 20, 10, 43, 36, 30, 23, 40, 06, 21, 50, 44, 09, 71, 78, 01, 13, 73, 07, 70, 72, 35, 62, 42, 11, 41, 08, 16, 29, 60, 15, 34, 61, 58, 04, 67, 12, 22, 53, 57, 18, 27, 76, 39, 32, 17, 77, 52, 33, 56, 46, 37, 47, 64, 49, 45, 38, 69, 14, 51, 26, 79, 19, 28, 65, 75, 54, 48, 03, 25, 66, 05, 16, 68, 74, 59, 63, 55

### 1.5.4. System Receiver Input Bandwidth

Each channel bandwidth is 1 MHz.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

### 1.5.5. Equipment Description

15.247(a)(1) that the rx input bandwidths shift frequencies in synchronization with the transmitted signals.

15.247(g): In accordance with the Bluetooth Industry Standard, the system is designed to comply with all of the regulations in Section 15.247 when the transmitter is presented with a continuous data (or information) system.

15.247(h): In accordance with the Bluetooth Industry Standard, the system does not coordinate its channels selection/ hopping sequence with other frequency hopping systems for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

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## 1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD : FCC Part15 Subpart C		
Standard section	Test Item(s)	Result
15.205 15.209 15.247(d)	Transmitter Radiated Spurious Emissions	Complied
15.247(b)(1)	Maximum Peak Output Power	Complied

**Note.** The antenna of this model has changed. So, radiated spurious emissions and maximum peak output power were performed.

## 1.7. Test Procedure(s)

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2009) and the guidance provided in DA 00-705 were used in the measurement of the DUT.

## 1.8. Sample calculation

Where relevant, the following sample calculation is provided:

### 1.8.1. Radiation test

Field strength level ( $\text{dB}\mu\text{V}/\text{m}$ ) = Measured level ( $\text{dB}\mu\text{V}$ ) + Antenna factor ( $\text{dB}$ ) + Cable loss ( $\text{dB}$ ) – amplifier gain ( $\text{dB}$ )

### 1.8.2. Conducted test

Offset value ( $\text{dB}$ ) = Directional Coupler( $\text{dB}$ ) + Cable loss ( $\text{dB}$ )

## 1.9. Test report revision

Revision	Report number	Date of Issue	Description
0	F690501/RF-RTL009490	2016. 02. 12.	Initial

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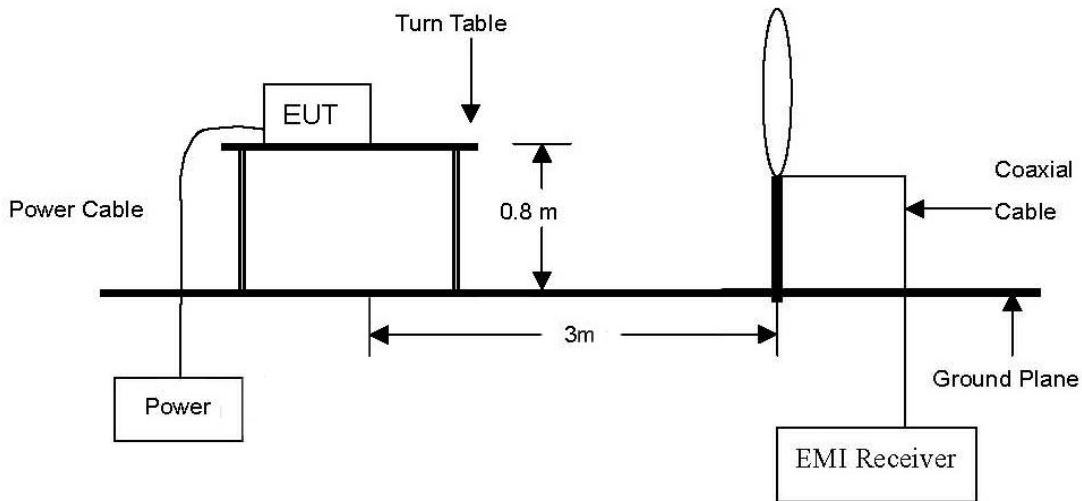
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## 2. Radiated Spurious Emissions and Conducted Spurious Emission

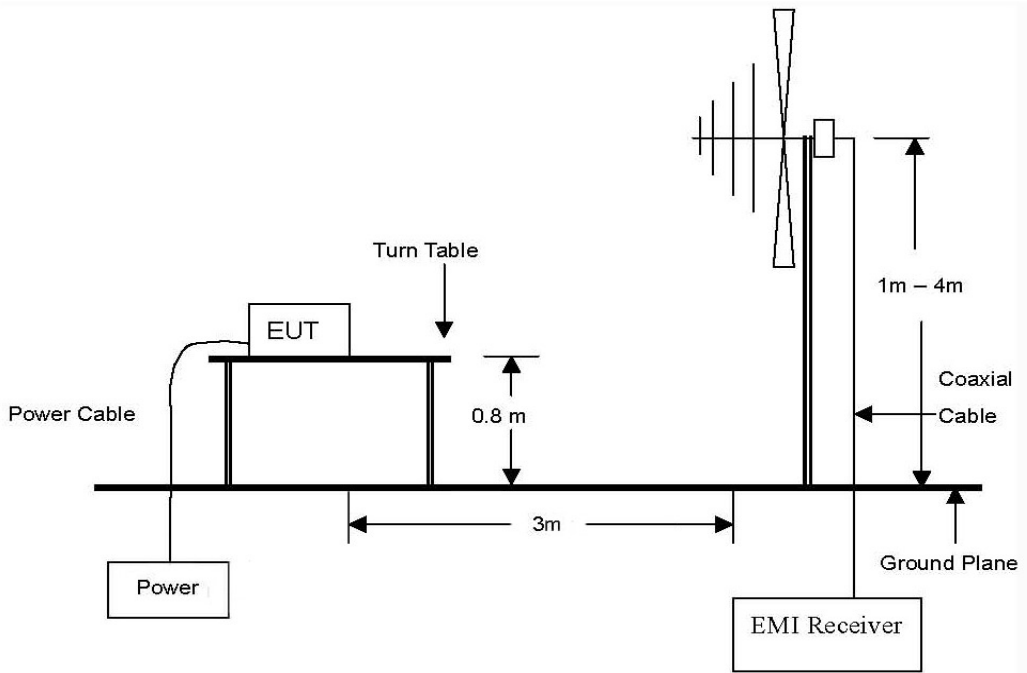
### 2.1. Test Setup

#### 2.1.1. Radiated Spurious Emissions

The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions.

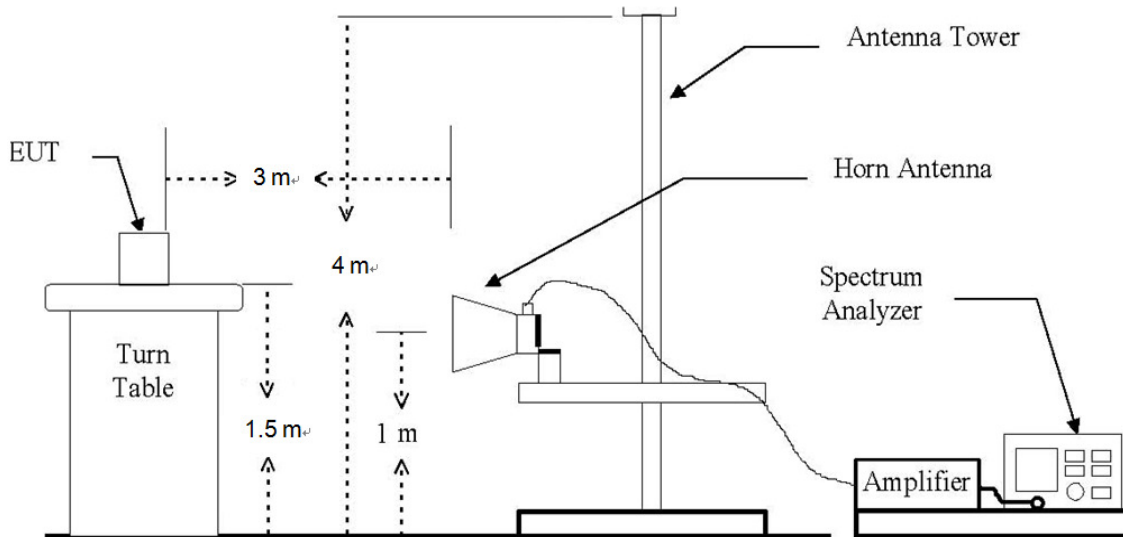


The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.



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The diagram below shows the test setup that is utilized to make the measurements for emission. The spurious emissions were investigated from 1 GHz to the 10th harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.



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## 2.2. Limit

According to §15.247(d), 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in section §15.209(a) is not required. In addition, radiated emission which in the restricted band, as define in section §15.205(a), must also comply the radiated emission limits specified in section §15.209(a) (see section §15.205(c))

According to § 15.209(a), Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (MHz)	Distance (Meters)	Field Strength (dB $\mu$ V/m)	Field Strength ( $\mu$ V/m)
0.009 – 0.490	300	20 log (2 400/F(kHz))	2 400/F(kHz)
0.490 – 1.705	30	20 log (24 000/F(kHz))	24 000/F(kHz)
1.705 – 30.0	30	29.54	30
30 - 88	3	40.0	100
88 – 216	3	43.5	150
216 – 960	3	46.0	200
Above 960	3	54.0	500

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## 2.3. Test Procedures

Radiated emissions from the EUT were measured according to the dictates of ANSI C63.10-2009.

Remark:

Testing for radiated emissions above 1 GHz was performed with the EUT elevated at 1.5 m instead of 0.8 m. 1.5 m is the required height in ANSI C63.10:2013 as referenced by RSS GEN issue 4. This test height has been permitted by FCC as discussed in FCC-TCB conference call in December 2014.

### 2.3.1. Test Procedures for emission below 30 MHz

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
3. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
4. The test-receiver system was set to average or quasi peak detect function and Specified Bandwidth with Maximum Hold Mode.

### 2.3.2. Test Procedures for emission from above 30 MHz

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site below 1 GHz and 1.5 meters above the ground at a 3 meter anechoic chamber test site above 1 GHz. The table was rotated 360 degrees to determine the position of the highest radiation.
2. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 3 meter away from the interference-receiving antenna.
3. The antenna is a bi-log antenna, a horn antenna and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

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## NOTE;

All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $1/T_{on}$  Hz ( $T_{on}$  = On-time of the Pulsed emission) for Average detection (AV) at frequency above 1 GHz.  
VBW = 360 Hz  $\geq 1/T_{on}$  Hz, pulse width in seconds ( $T_{on}$  = 2.90 ms). Refer to the DH5, 3DH5 of Time of Occupancy (Dwell Time) test item.
4. When Average result is different from peak result over 20 dB (over-averaging), According to 15.35 (c), as a "duty cycle correction factor", pulse averaging with  $20 \log(\text{duty cycle})$  has to be used.
5. To get a maximum emission level from the EUT, the EUT is manipulated through three orthogonal planes. Worst orthogonal plan of EUT is X-axis during radiation test.

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## 2.4. Test Results

Ambient temperature : (23 ± 1) °C  
 Relative humidity : 47 % R.H.

### 2.4.1. Spurious Radiated Emission below 1 000 MHz

The frequency spectrum from 9 MHz to 1 000 MHz was investigated. All reading values are peak values.

Radiated Emissions			Ant	Correction Factors		Total	FCC Limit	
Frequency (MHz)	Reading (dB $\mu$ V)	Detect Mode	Pol.	AF (dB/m)	AMP + CL (dB)	Actual (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
40.31	33.20	Peak	H	15.94	-27.16	21.98	40.00	18.02
329.25	40.50	Peak	H	14.81	-25.23	30.08	46.00	15.92
329.25	41.20	Peak	V	15.90	-25.23	31.87	46.00	14.13
643.12	39.50	Peak	V	20.45	-25.72	34.23	46.00	11.77
769.22	34.60	Peak	H	21.52	-25.19	30.93	46.00	15.07

Remark:

- Spurious emissions for all channels and modes were investigated and almost the same below 1 GHz.
- Reported spurious emissions are in **EDR / 3DH5 / Middle channel** as worst case among other modes.
- According to §15.31(o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.
- Radiated spurious emission measurement as below  
 (Actual = Reading + AF + AMP + CL)

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### 2.4.2. Spurious Radiated Emission above 1 000 MHz

The frequency spectrum above 1 000 MHz was investigated. All reading values are peak and average values.

#### Operating Mode: GFSK (1 Mbps)

##### A. Low Channel (2 402 MHz)

Radiated Emissions			Ant	Correction Factors		Total	FCC Limit	
Frequency (MHz)	Reading (dB $\mu$ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
*2 310.00	24.59	Peak	V	27.82	5.35	57.76	74.00	16.24
*2 310.00	15.06	Average	V	27.82	5.35	48.23	54.00	5.77
*2 334.16	26.39	Peak	V	27.85	5.35	59.59	74.00	14.41
*2 334.16	15.12	Average	V	27.85	5.35	48.32	54.00	5.68
*2 390.00	24.74	Peak	V	27.91	5.38	58.03	74.00	15.97
*2 390.00	15.29	Average	V	27.91	5.38	48.58	54.00	5.42

Radiated Emissions			Ant	Correction Factors		Total	FCC Limit	
Frequency (MHz)	Reading (dB $\mu$ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
*4 804.06	43.08	Peak	V	32.72	-35.12	40.68	74.00	33.32
*4 804.06	38.47	Average	V	32.72	-35.12	36.07	54.00	17.93
Above 4 900.00	Not detected	-	-	-	-	-	-	-

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## B. Middle Channel (2 441 MHz)

Radiated Emissions			Ant	Correction Factors		Total	FCC Limit	
Frequency (MHz)	Reading (dB $\mu$ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
*4 882.02	42.36	Peak	V	32.94	-35.01	40.29	74.00	33.71
*4 882.02	37.00	Average	V	32.94	-35.01	34.93	54.00	19.07
*7 323.02	39.09	Peak	V	35.83	-30.73	44.19	74.00	29.81
*7 323.02	33.01	Average	V	35.83	-30.73	38.11	54.00	15.89
Above 7 400.00	Not detected	-	-	-	-	-	-	-

## C. High Channel (2 480 MHz)

Radiated Emissions			Ant	Correction Factors		Total	FCC Limit	
Frequency (MHz)	Reading (dB $\mu$ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
*2 483.50	24.30	Peak	V	28.02	5.44	57.76	74.00	16.24
*2 483.50	15.64	Average	V	28.02	5.44	49.10	54.00	4.90
*2 483.93	26.73	Peak	V	28.02	5.45	60.20	74.00	13.80
*2 483.93	15.75	Average	V	28.02	5.45	49.22	54.00	4.78
*2 500.00	25.33	Peak	V	28.04	5.49	58.86	74.00	15.14
*2 500.00	15.73	Average	V	28.04	5.49	49.26	54.00	4.74

Radiated Emissions			Ant	Correction Factors		Total	FCC Limit	
Frequency (MHz)	Reading (dB $\mu$ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
*7 440.05	37.62	Peak	V	35.97	-31.45	42.14	74.00	31.86
*7 440.05	31.15	Average	V	35.97	-31.45	35.67	54.00	18.33
Above 7 500.00	Not detected	-	-	-	-	-	-	-

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**Operating Mode: 8DPSK (3 Mbps)**
**A. Low Channel (2 402 MHz)**

Radiated Emissions			Ant	Correction Factors		Total	FCC Limit	
Frequency (MHz)	Reading (dB $\mu$ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
*2 310.00	23.80	Peak	V	27.82	5.35	56.97	74.00	17.03
*2 310.00	15.16	Average	V	27.82	5.35	48.33	54.00	5.67
*2 320.48	26.29	Peak	V	27.84	5.33	59.46	74.00	14.54
*2 320.48	15.09	Average	V	27.84	5.33	48.26	54.00	5.74
*2 390.00	24.58	Peak	V	27.91	5.38	57.87	74.00	16.13
*2 390.00	15.26	Average	V	27.91	5.38	48.55	54.00	5.45

Radiated Emissions			Ant	Correction Factors		Total	FCC Limit	
Frequency (MHz)	Reading (dB $\mu$ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

**B. Middle Channel (2 441 MHz)**

Radiated Emissions			Ant	Correction Factors		Total	FCC Limit	
Frequency (MHz)	Reading (dB $\mu$ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

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## C. High Channel (2 480 MHz)

Radiated Emissions			Ant	Correction Factors		Total	FCC Limit	
Frequency (MHz)	Reading (dB $\mu$ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
*2 483.50	24.81	Peak	V	28.02	5.44	58.27	74.00	15.73
*2 483.50	15.74	Average	V	28.02	5.44	49.20	54.00	4.80
*2 495.99	27.05	Peak	V	28.04	5.48	60.57	74.00	13.43
*2 495.99	15.69	Average	V	28.04	5.48	49.21	54.00	4.79
*2 500.00	25.44	Peak	V	28.04	5.49	58.97	74.00	15.03
*2 500.00	15.78	Average	V	28.04	5.49	49.31	54.00	4.69

Radiated Emissions			Ant	Correction Factors		Total	FCC Limit	
Frequency (MHz)	Reading (dB $\mu$ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

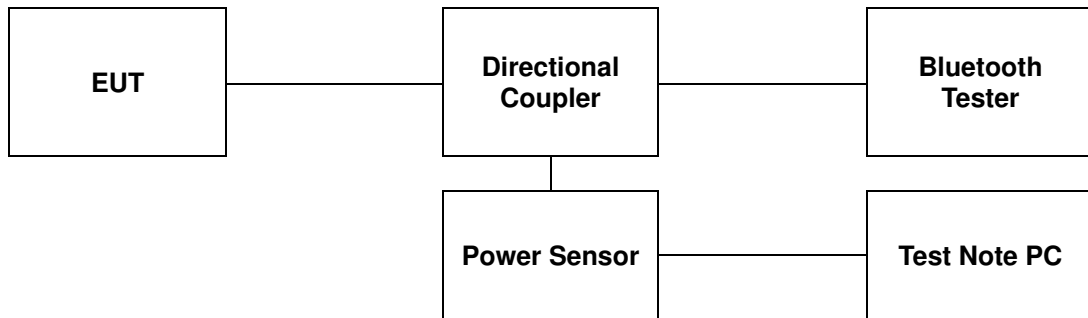
## Remarks;

1. "\*" means the restricted band.
2. Measuring frequencies from 1 GHz to the 10<sup>th</sup> harmonic of highest fundamental frequency.
3. According to § 15.31(o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.
4. Radiated emissions measured in frequency above 1 000 MHz were made with an instrument using peak/average detector mode.
5. Band edge measurement  
(Actual = Reading + AF + CL)
6. Radiated spurious emission measurement  
(Actual = Reading + AF + AMP + CL)

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### 3. Maximum Peak Output Power

#### 3.1. Test Setup



#### 3.2. Limit

The maximum peak output power of the intentional radiator shall not exceed the following :

1. §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
2. §15.247(b)(1), For frequency hopping systems operating in the 2 400 – 2 483.5 MHz employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5 725 – 5 805 MHz band : 1 Watt.

#### 3.3. Test Procedure

All data rates and modes were investigated for this test. The test follows DA 00-705. Using the power sensor instead of a spectrum analyzer.

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.
3. Test program : (S/W name : R&S Power Viewer, Version : 3.2.0)
4. Measure peak power each channel.

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A4(210mm x 297mm)

### 3.4. Test Results

Ambient temperature : (23 ± 1) °C  
 Relative humidity : 47 % R.H.

Operation Mode	Data Rate	Channel	Channel Frequency (MHz)	Directional Coupler + Cable offset (dB)	Peak Power Result (dB m)	Peak Power Limit (dB m)
GFSK	1 Mbps	Low	2 402	16.14	1.39	30.00
		Middle	2 441	16.17	<b><u>1.69</u></b>	30.00
		High	2 480	16.22	1.07	30.00
π/4DQPSK	2 Mbps	Low	2 402	16.14	1.63	20.97
		Middle	2 441	16.17	<b><u>2.55</u></b>	20.97
		High	2 480	16.22	2.36	20.97
8DPSK	3 Mbps	Low	2 402	16.14	2.64	20.97
		Middle	2 441	16.17	<b><u>3.02</u></b>	20.97
		High	2 480	16.22	2.86	20.97

**Remark:**

In the case of AFH, the limit for peak power is 0.125 W

Directional coupler and cable offset compensate for test program (R&S Power Viewer) before measuring

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