

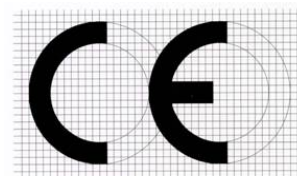
RF TEST REPORT

Report No. : TB12104161
Applicant :
Equipment Under Test (EUT)
EUT Name : Bluetooth Headphone
Model No. : H1
Serial No. : H2
Brand Name : XSOUND
Receipt Date : 2012-09-27
Test Date : 2012-09-28 to 2012-10-22
Issue Date : 2012-10-25
Standards : EN 300 328 V1.7.1: 2006
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above. The EUT technically complies with the R&TTE Directive of 99/5/EC requirements.

Test/Witness Engineer : *Ray Lai*

Approved & Authorized : *[Signature]*



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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1 General Information

1.1 Client Information

Applicant :

Address :

Manufacturer :

Address :

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Bluetooth Headphone	
Model No.	:	H1, H2	
Model Difference	:	The different models are identical in schematic, structure and critical component, the only different is the appearance.	
Product Description	:	Operation Frequency:	Operation Frequency: Bluetooth: 2402~2480 MHz
	:	Number of Channel:	79Channels see note (2)
	:	Out Power:	6.19 dBm 1Mbps 4.76 dBm 3Mbps
	:	Antenna Gain:	0 dBi see note (3)
	:	Modulation Type:	GFSK 1Mbps(1 Mbps) $\pi/4$ -DQPSK(2 Mbps) 8-DPSK(3 Mbps)
	:	Date Rate:	1 Mbps~3 Mbps
Power Supply	:	DC Voltage supplied from Host System DC Voltage supplied from Li-ion batter	
Power Rating	:	DC 5.0V from Host System DC 3.7V 130mAh Li-ion battery	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

(1) This Test Report is EN 300328 for Bluetooth, under R&TTE Directive Article 3.2.

(2) Channel List:

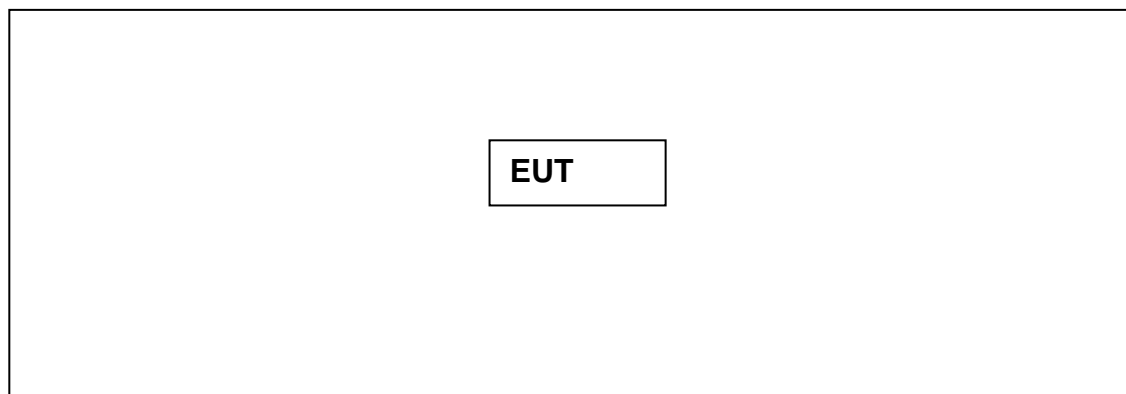
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460

05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

(3) Antenna description

Ant.	Brand	Model Name	Antenna Type	Gain (dBi)
1	N/A	N/A	Printed Ant.	0

1.3 Block Diagram Showing the Configuration of System Tested



1.4 Description of Support Units

During testing have no support unit.

Name	Model	S/N	Manufacturer	Used “√”

1.5 Description of Operating Mode

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Bluetooth Headphone	
Lowest Channel	CH00:2402MHz
Middle Channel	CH39:2441MHz
Highest Channel	CH78:2480MHz

Test Mode	Description
Mode 1	Transmit mode(2402/2441/2480MHz)
Mode 2	Receive mode(2402/2441/2480MHz)

1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of Bluetooth mode.

1.7 Description of Operating Mode

Normal Temperature(NT):	+15 °C to +30 °C
Relative Humidity:	25% to 75%
Air Pressure:	980-1020 hPa
Extreme Temperature:	Low Temperature (LT)= -10°C High Temperature (HT)= +55°C
Normal Voltage of EUT (NV):	DC 3.70V
Extreme Voltage of the EUT:	Low Voltage(LV)= 3.14 V High Voltage(HV)=4.07 V

Mains voltage:

The extreme test voltage for equipment to be connected to an DC power supplier, and shall be the nominal mains voltage $\pm 10\%$ for High Voltage, and 85% for Low Voltage.

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 10/F., A Block, Jiada R & D Bldg., No.5 Songpingshan Road, Science & Technology Park, Nanshan District, Shenzhen, China. At the time of testing, the following bodies accredited the Laboratory:

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

Jul. 12, 2012 certificated by TUV Rheinland, Shenzhen (Audit Report:17026822-001). The certificate is valid until the next scheduled inspection or up to 18 months, at the discretion of TUV Rhineland.

2 Test Results Summary

ETSI EN 300 328 V1.7.1							
Essential Requirement			Requirement Conditionality		Test Specification		
No	Description	Reference: Clause No	U/C	Condition	E/O	Reference: Clause No	Observations
1	Equivalent isotropic radiated power	4.3.1	U		E	5.7.2	PASS Note(2)
2	Maximum spectral power density	4.3.2	C	Only for modulations other than FHSS	E	5.7.3	N/A
3	Frequency range	4.3.3	U		E	5.7.4	PASS
4	Dwell time	4.3.4.1	C	Only for FHSS			PASS
5	Hopping Channel	4.3.4.2	C	Only for FHSS			PASS
6	Hopping sequence	4.3.4.3	C	Only for FHSS			PASS
7	Medium Access Protocol	4.3.5	U				NOTE(2)
8	Transmitter spurious emissions	4.3.6	U		E	5.7.5	PASS
9	Receiver spurious emissions	4.3.7	U		E	5.7.6	PASS

Note:

- (1) "U/C": indicates whether the requirement is to be unconditionally applicable (U) or is conditional upon the manufacturers claimed functionality of the equipment (C).
"E/O": indicates whether the test specification forms part of the Essential Radio Test Suite (E) or whether it is one of the Other Test Suite (O).
"X": indicates there is no test specified corresponding to the requirement.
"N/A": indicates test is not applicable in this Test Report.
- (2) The equipment must be complied with as a necessary condition for presumption of conformity, although conformance with the requirement may be claimed by an equivalent test or by manufacturer's assertion supported by appropriate entries in the technical construction file.
- (3) The equipment was supplied by Host system, so the upper extreme test voltage shall be 1.1 times the nominal voltage of the battery, and the lower extreme test voltage shall be 0.9 times the nominal voltage of the Host system.

3 Maximum Transmit Power

3.1 Test Standard and Limit

3.1.1 Test Standard

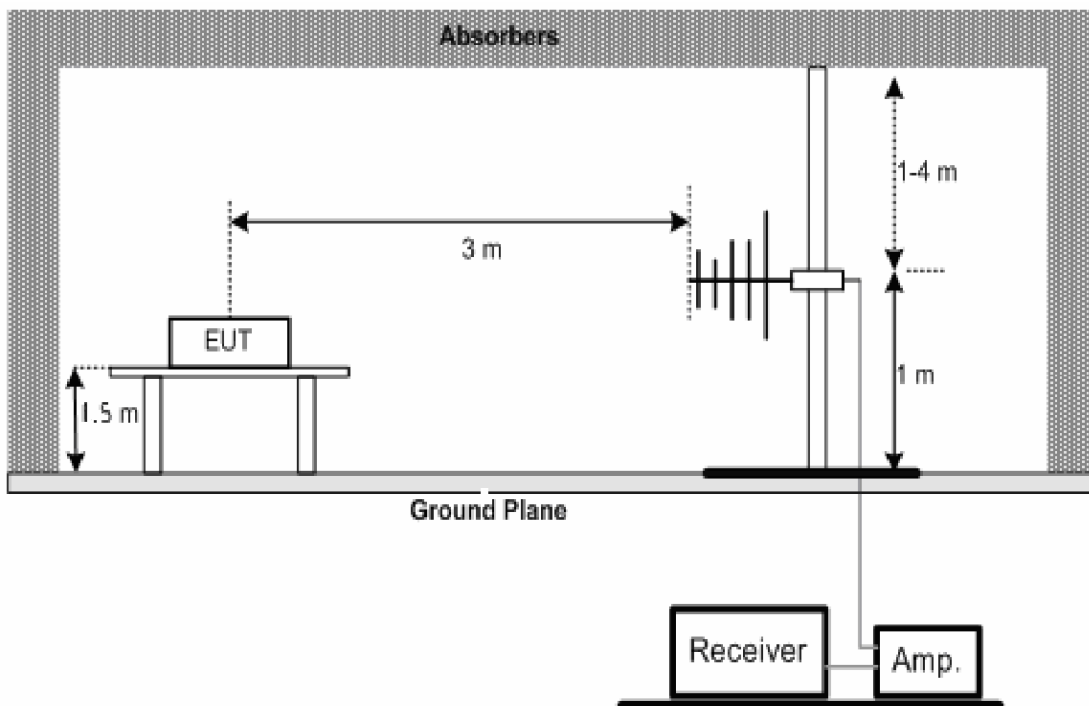
EN 300 328 V1.7.1:2006 clause 4.3.1

3.1.2 Test Limit

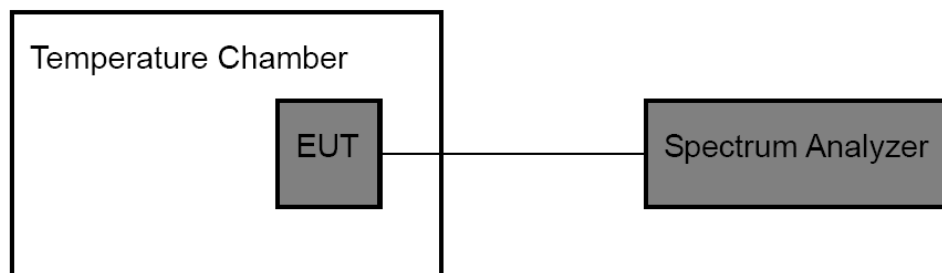
Test Item	Limit
Equivalent isotropic radiated power	-10 dBW (20 dBm)

3.2 Test Setup

Normal Condition



Extreme Condition



3.3 Test Procedure

1. The EUT was placed on the top of the turntable in chamber.
2. The test shall be made in the transmitting mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. This measurement shall be repeated with the transmitter in standby mode where applicable.
4. The receiver shall be set the center frequency equal to the EUT transmit, and the Resolution Bandwidth equal to the Video Bandwidth is set to 1 MHz for the frequency bellow 1 GHz, and the frequency is above 1 GHz the Resolution Bandwidth equal to the Video Bandwidth is set to 3MHz.
5. The broadband receiving antenna was fixed on the same height with the EUT to find each suspected emissions of both horizontal and vertical polarization. Each recorded suspected value is indicated as Read Level (Raw).
6. Replace the EUT by standard antenna and feed the RF port by signal generator.
7. The $EIRP = A + G + 10 \cdot \log(1/x)$, the A is the power measured in the above, and G is the gain of the antenna of the EUT in dBi and x is the duty cycle of the EUT in continuously transmitting mode.
8. The measurement shall be repeated at the lowest, the middle, and the highest channel of the stated frequency range. These measurements shall also be performed at the normal and the extreme test conditions.

3.4 Test Equipment Used

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	ROHDE& SCHWARZ	FSEA20	DE25181	2012-08-12	2013-08-11
Positioning Controller	C&C	CC-C-1F	N/A	2012-08-12	2013-08-11
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2012-07-21	2013-07-20
Horn Antenna	SCHWARZBECK	BBHX 9120	9120-426	2012-07-21	2013-07-20
RF Switch	EM	EMSW18	SW060023	2012-08-12	2013-08-11
Amplifier	Agilent	8447F	3113A06717	2012-08-12	2013-08-11
Coaxial Cable	SCHWARZBECK	AK9513	9513-10	2012-08-12	2013-08-11
EMI Test Receiver	ROHDE& SCHWARZ	ESPI	25498514	2012-08-12	2013-08-11
Signal Generator	HP	83532B	6K00003462	2012-08-12	2013-08-11

3.5 Test Data

EUT: Bluetooth Headphone			Test Voltage: DC 3.70V		
Test Conditions: 1Mbps Continous transmitting					
Duty Cycle: >50 %					
Rel.Humidity: 60%			Test Results		
Pressure: 1010 hPa			EIRP (dBm)	EIRP Limit (dBm)	Result
Test Frequency: 2402 MHz					
Tnom 26° C	Vnom 3.70 V		6.04	20	Pass
Tmin 0° C	Vmax 4.07 V		6.11	20	Pass
	Vmin 3.14 V		6.19	20	Pass
Tmax 50° C	Vmax 4.07 V		6.08	20	Pass
	Vmin 3.14 V		6.15	20	Pass
Test Frequency: 2441 MHz					
Tnom 26° C	Vnom 3.70 V		5.73	20	Pass
Tmin 0° C	Vmax 4.07 V		5.78	20	Pass
	Vmin 3.14 V		5.84	20	Pass
Tmax 50° C	Vmax 4.07 V		5.75	20	Pass
	Vmin 3.14 V		5.81	20	Pass
Test Frequency: 2480 MHz					
Tnom 26° C	Vnom 3.70 V		5.83	20	Pass
Tmin 0° C	Vmax 4.07 V		5.91	20	Pass
	Vmin 3.14 V		5.99	20	Pass
Tmax 50° C	Vmax 4.07 V		5.86	20	Pass
	Vmin 3.14 V		5.96	20	Pass

EUT: Bluetooth Headphone			Test Voltage: DC 3.70V		
Test Conditions: 3Mbps Continous transmitting					
Duty Cycle: >98 %					
Rel.Humidity: 60%			Test Results		
Pressure: 1010 hPa			EIRP (dBm)	EIRP Limit (dBm)	Result
Test Frequency: 2402 MHz					
Tnom 26° C	Vnom 3.70 V		4.42	20	Pass
Tmin 0° C	Vmax 4.07 V		4.47	20	Pass
	Vmin 3.14 V		4.52	20	Pass
Tmax 50° C	Vmax 4.07 V		4.45	20	Pass
	Vmin 3.14 V		4.50	20	Pass
Test Frequency: 2441 MHz					
Tnom 26° C	Vnom 3.70 V		4.64	20	Pass
Tmin 0° C	Vmax 4.07 V		4.69	20	Pass
	Vmin 3.14 V		4.76	20	Pass
Tmax 50° C	Vmax 4.07 V		4.67	20	Pass
	Vmin 3.14 V		4.73	20	Pass
Test Frequency: 2480 MHz					
Tnom 26° C	Vnom 3.70 V		4.21	20	Pass
Tmin 0° C	Vmax 4.07 V		4.28	20	Pass
	Vmin 3.14 V		4.35	20	Pass
Tmax 50° C	Vmax 4.07 V		4.26	20	Pass
	Vmin 3.14 V		4.32	20	Pass

4 Frequency Range

4.1 Test Standard and Limit

4.1.1 Test Standard

EN 300 328 V1.7.1:2006 clause 4.3.3

4.1.2 Test Limit

Test Item	Limit
Frequency Range	-80 dBm/Hz (the e.i.r.p. spectral density)

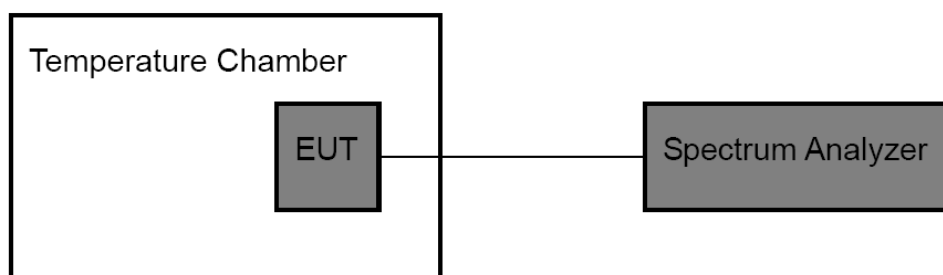
The frequency range of the equipment is determined by the lowest and highest frequencies occupied by the spectrum envelope.

fH is the highest frequency of the spectrum envelope: it is the frequency furthest above the frequency of maximum power where the e.i.r.p. spectral density drops below the level of -80 dBm/Hz (-30 dBm if measured in a 100 kHz bandwidth).

fL is the lowest frequency of the spectrum envelope; it is the frequency furthest below the frequency of maximum power where the e.i.r.p. spectral density drops below the level of -80 dBm/Hz (or -30 dBm if measured in a 100 kHz bandwidth).

For a given operating frequency, the width of the spectrum envelope is (fH - fL). In equipment that allows adjustment or selection of different operating frequencies, the power envelope takes up different positions in the allocated band. The frequency range is determined by the lowest value of fL and the highest value of fH resulting from the adjustment of the equipment to the lowest and highest operating frequencies.

4.2 Test Setup



4.3 Test Procedure

1. The transmitter output was connected to the spectrum analyzer.
2. Added [x] dBi of the EUT antenna gain on the spectrum analyzer.
3. Set the spectrum analyzer as following:
 - Resolution BW : 100kHz.
 - Resolution BW : 100kHz.
 - Detector : Average,

- Trace Mode : Max Hold.
 - Sweep time : $\geq 60s$.
 - Span : Wide enough to capture the complete power envelope, including all sidebands.
4. Select lowest operating frequency of the EUT.
 5. Find lowest frequency below the operating frequency at which spectral power density drops below -80 dBm/Hz e.i.r.p. (-30 dBm if measured in a 100kHz bandwidth). This frequency shall be recorded (fL).
 6. Select the highest operating frequency of the EUT, and repeat the step 3.
 7. Find the highest operating frequency at which the spectral power density drops below -80 dBm/Hz e.i.r.p. (-30 dBm if measured in a 100 kHz bandwidth). This frequency shall be recorded (fH).
 8. These measurements shall also be performed at normal and extreme test conditions.

4.4 Test Equipment Used

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	ROHDE& SCHWARZ	FSEA20	DE25181	2012-08-12	2013-08-11
DC power supply	GVE	PL0825	N/A	N/A	N/A
Temp. & Humid. Chamber	GIANT	IHT-550	IKW682-054	2012-08-12	2013-08-11

4.5 Test Data

Please refer to the following pages.

EUT:	Bluetooth Headphone			Model Name :	H1
Temperature:	26°C			Relative Humidity:	60%
Pressure:	1010 hPa			Test Voltage :	DC 3.7V
Test Mode :	2402MHz (1Mbps)				
Test Conditions				Frequency Range(MHz) (fL CH 01)	
Norm (°C)	20.0	V nom (V)	230.0	2400.6200	
T min (°C)	0.0	V max (V)	257.0	2400.5400	
		V min (V)	207.0	2400.4800	
T max (°C)	55.0	V max (V)	257.0	2400.5800	
		V min (V)	207.0	2400.5000	
Min. fL Band Edges				2400.4800	
Indoor Use Limit				fL>2400.0MHz	
Result				PASS	

EUT:	Bluetooth Headphone			Model Name :	H1
Temperature:	26°C			Relative Humidity:	60%
Pressure:	1010 hPa			Test Voltage :	DC 3.7V
Test Mode :	2480MHz (1Mbps)				
Test Conditions				Frequency Range(MHz) (fH CH 13)	
Norm (°C)	20.0	V nom (V)	230.0	2481.0400	
T min (°C)	0.0	V max (V)	257.0	2481.1200	
		V min (V)	207.0	2481.1900	
T max (°C)	55.0	V max (V)	257.0	2481.0800	
		V min (V)	207.0	2481.1700	
Max. fH Band Edges				2481.1900	
Indoor Use Limit				fH<2483.5MHz	
Result				PASS	

EUT:	Bluetooth Headphone			Model Name :	H1
Temperature:	26°C			Relative Humidity:	60%
Pressure:	1010 hPa			Test Voltage :	DC 3.7V
Test Mode :	2402MHz (3Mbps)				
Test Conditions				Frequency Range(MHz) (fL CH 01)	
Norm (°C)	20.0	V nom (V)	230.0	2400.6200	
T min (°C)	0.0	V max (V)	257.0	2400.5600	
		V min (V)	207.0	2400.5000	
T max (°C)	55.0	V max (V)	257.0	2400.5900	
		V min (V)	207.0	2400.5300	
Min. fL Band Edges				2400.5000	
Indoor Use Limit				fL>2400.0MHz	
Result				PASS	

EUT:	Bluetooth Headphone			Model Name :	H1
Temperature:	26°C			Relative Humidity:	60%
Pressure:	1010 hPa			Test Voltage :	DC 3.7V
Test Mode :	2480MHz (3Mbps)				
Test Conditions				Frequency Range(MHz) (fH CH 13)	
Norm (°C)	20.0	V nom (V)	230.0	2480.8000	
T min (°C)	0.0	V max (V)	257.0	2480.8900	
		V min (V)	207.0	2480.9600	
T max (°C)	55.0	V max (V)	257.0	2480.8500	
		V min (V)	207.0	2480.9200	
Max. fH Band Edges				2480.9600	
Indoor Use Limit				fH<2483.5MHz	
Result				PASS	

5 Number of Hopping Channel

5.1 Test Standard and Limit

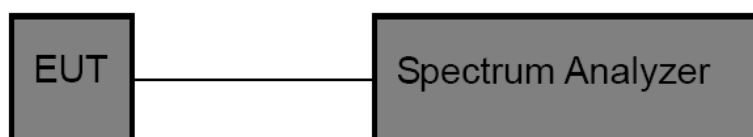
5.1.1 Test Standard

EN 300 328 V1.7.1:2006 clause 4.3.4.2

5.1.2 Limits

Test Item	Frequency Range (MHz)	Result
Number of Hopping Channels	2400-2483.5	PASS

5.2 Test Setup



5.3 Test Procedure

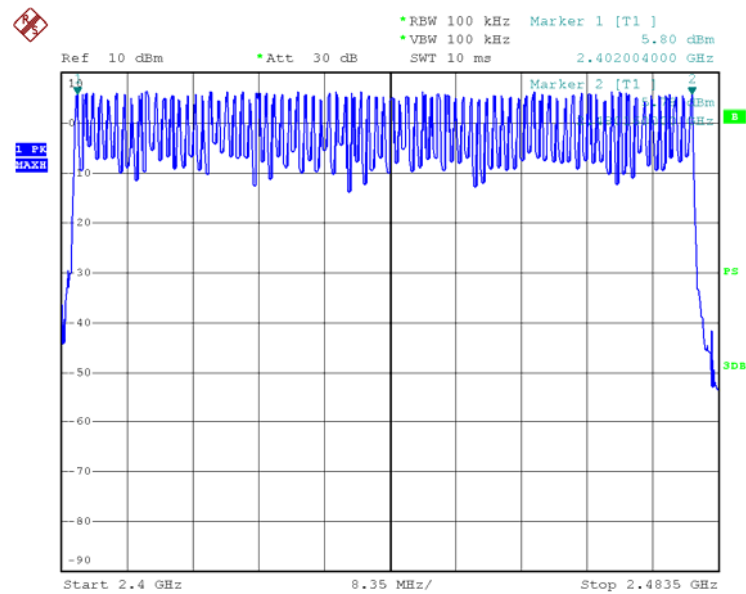
- 1.The transmitter output was connected to the spectrum analyzer.
2. Set the spectrum analyzer as following:
 - Resolution BW :100kHz.
 - Resolution BW :100kHz.
 - Detector : Peak.
 - Trace : Max Hold.
 - Sweep time : Auto.
 - Span : >Operating Frequency Range.

5.4 Test Equipment Used

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	ROHDE& SCHWARZ	FSEA20	DE25181	2012-08-12	2013-08-11
DC power supply	GVE	PL0825	N/A	N/A	N/A

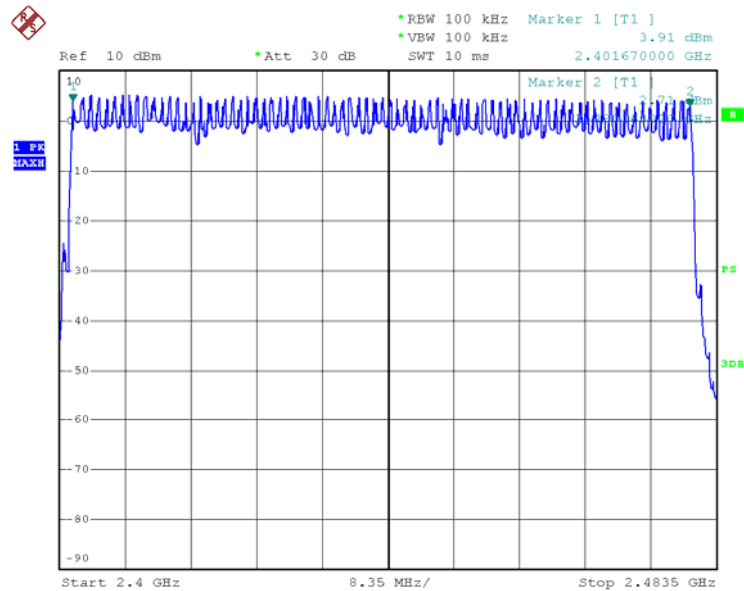
5.5 Test Data

Mode: 1 Mbps		
Hopping Channel Frequency Range	Quantity of Hopping Channel	Limit
2402~2480	79	>15



Date: 17.OCT.2012 17:56:25

Mode: 3 Mbps		
Hopping Channel Frequency Range	Quantity of Hopping Channel	Limit
2402~2480	79	>15



Date: 17.OCT.2012 17:54:04

6 Average Time of Occupancy

6.1 Test Standard and Limit

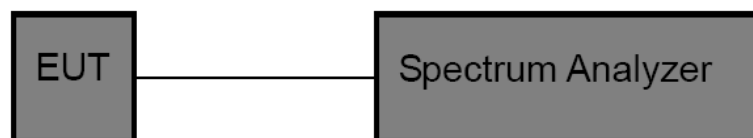
6.1.1 Test Standard

EN 300 328 V1.7.1:2006 clause 4.3.4.1

6.1.2 Limits

Test Item	Frequency Range (MHz)	Limit	Result
Average Time of Occupancy	2400-2483.5	0.4s	PASS

6.2 Test Setup



6.3 Test Procedure

1. The transmitter output was connected to the spectrum analyzer.
2. Set Resolution Bandwidth of the spectrum analyzer to 1MHz and Video Bandwidth to 1MHz.
3. Use a video trigger with the trigger level set to enable triggering only on full pulses.
4. Sweep Time is more than once pulse time.
5. Set the center frequency on any frequency would be measured and set the frequency span to zero span.
6. Measure the maximum time duration of one single pulse.
7. Set the EUT for DH5, DH3 and DH1 packet transmitting.
8. Measure the maximum time duration of one single pulse.
9. DH5 Packet permit maximum $1600/79/6=3.37$ hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6=106.6$ with 31.6 seconds.
 DH3 Packet permit maximum $1600/79/4=5.06$ hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $5.06 \times 31.6=160$ with 31.6 seconds.
 DH1= Packet permit maximum $1600/79/2=10.12$ hops per second in each channel (1 time slot RX, 1time slot TX).So, the dwell time is the time duration of the pulse times $10.12 \times 31.6=320$ within 31.6 seconds.
10. The lowest, middle and highest frequency of the EUT should be tested.

6.4 Test Equipment Used

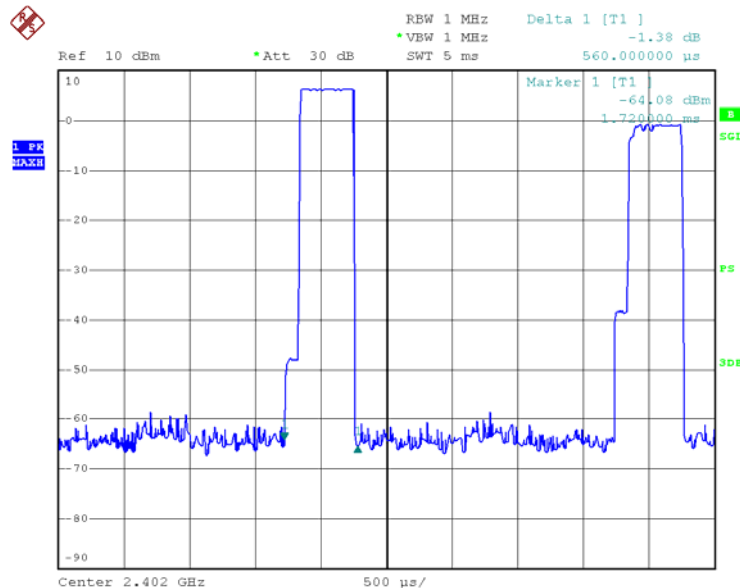
Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	ROHDE & SCHWARZ	FSEA20	DE25181	2012-08-12	2013-08-11
DC power supply	GVE	PL0825	N/A	N/A	N/A

6.5 Test Data

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity :	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	2402MHz (DH1/DH3/DH5) 1Mbps		

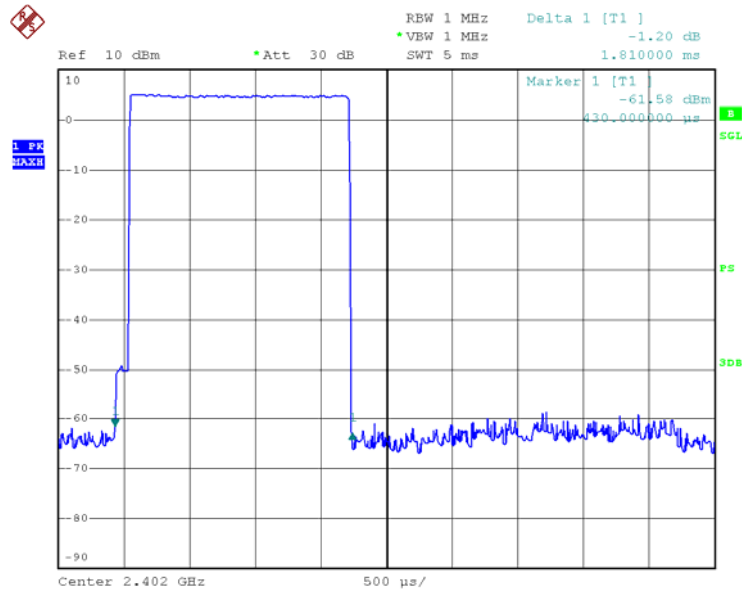
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2402	0.560	0.179	0.400
DH3	2402	1.810	0.289	0.400
DH5	2402	3.060	0.326	0.400

DH1



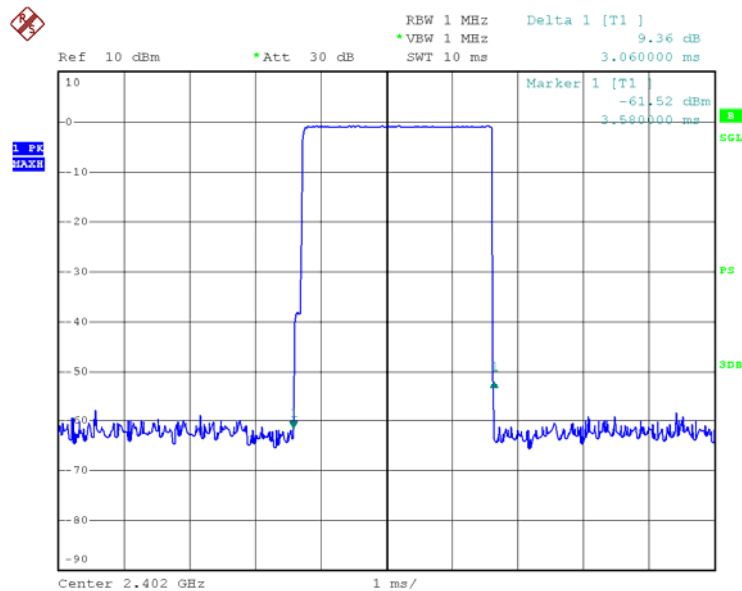
Date: 17.OCT.2012 17:36:41

DH3



Date: 17.OCT.2012 17:42:19

DH5

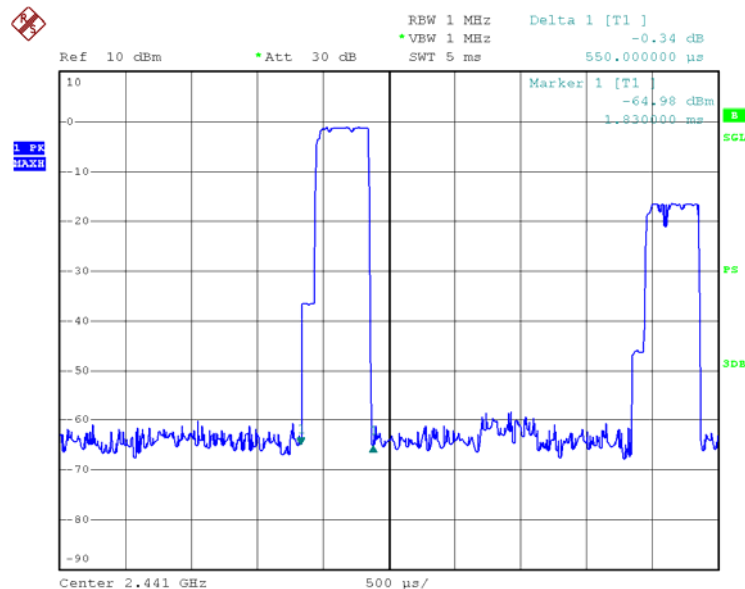


Date: 17.OCT.2012 17:34:46

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity :	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	2441MHz (DH1/DH3/DH5) 1Mbps		

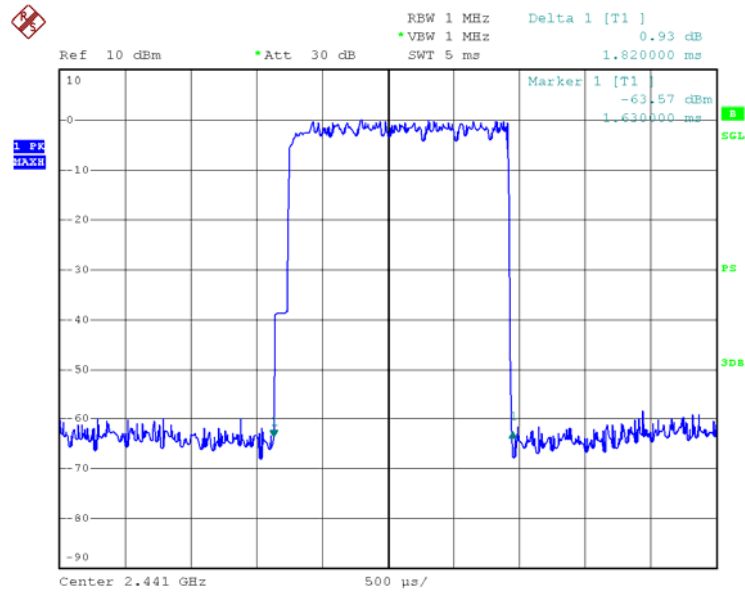
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441	0.550	0.176	0.400
DH3	2441	1.820	0.291	0.400
DH5	2441	3.080	0.328	0.400

DH1



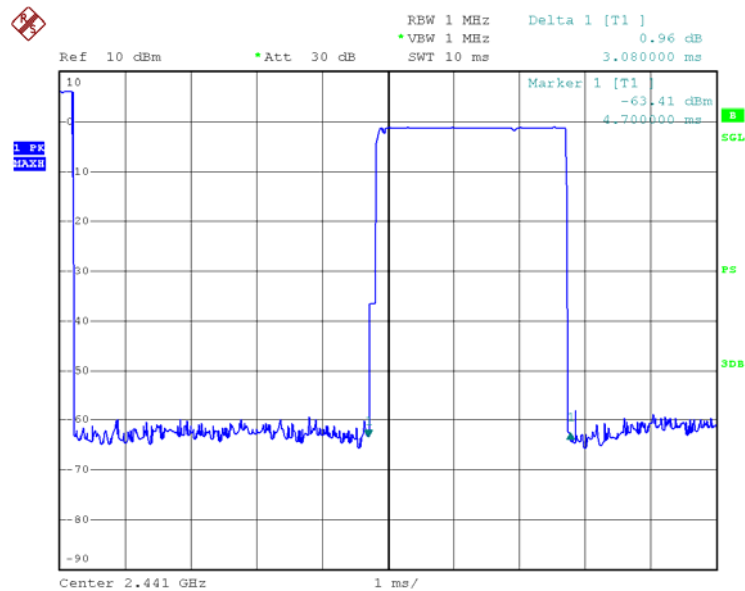
Date: 17.OCT.2012 17:37:39

DH3



Date: 17.OCT.2012 17:41:40

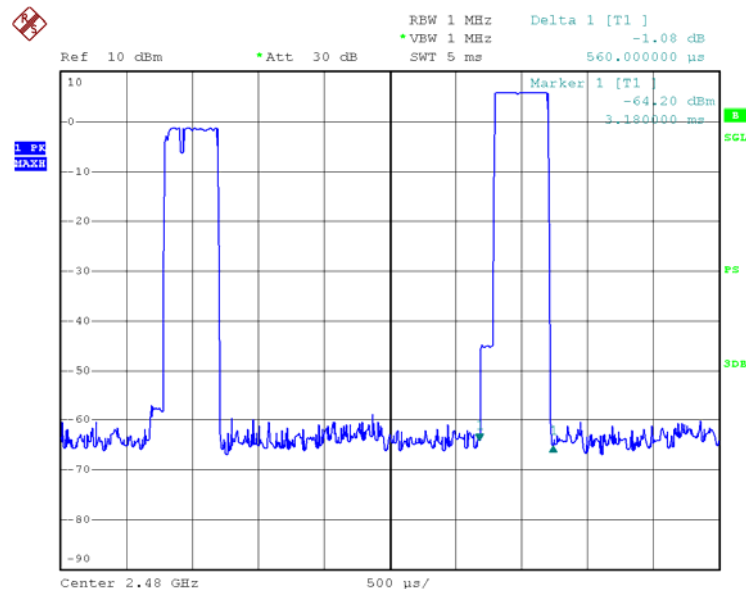
H5



Date: 17.OCT.2012 17:33:15

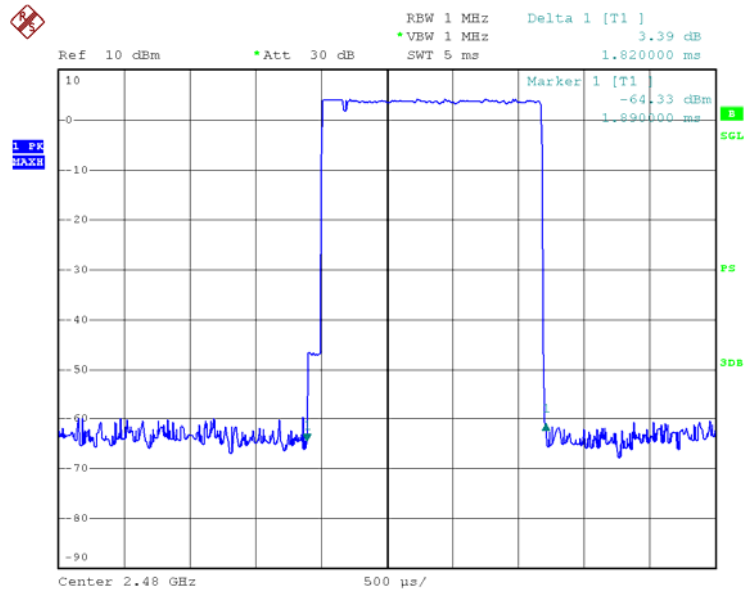
EUT:	Bluetooth Headphone	Model Name :	H1	
Temperature:	26°C	Relative Humidity :	60%	
Pressure:	1010 hPa	Test Voltage :	DC 3.7V	
Test Mode:	2480MHz (DH1/DH3/DH5) 1Mbps			
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2480	0.560	0.179	0.400
DH3	2480	1.820	0.291	0.400
DH5	2480	3.060	0.326	0.400

DH1



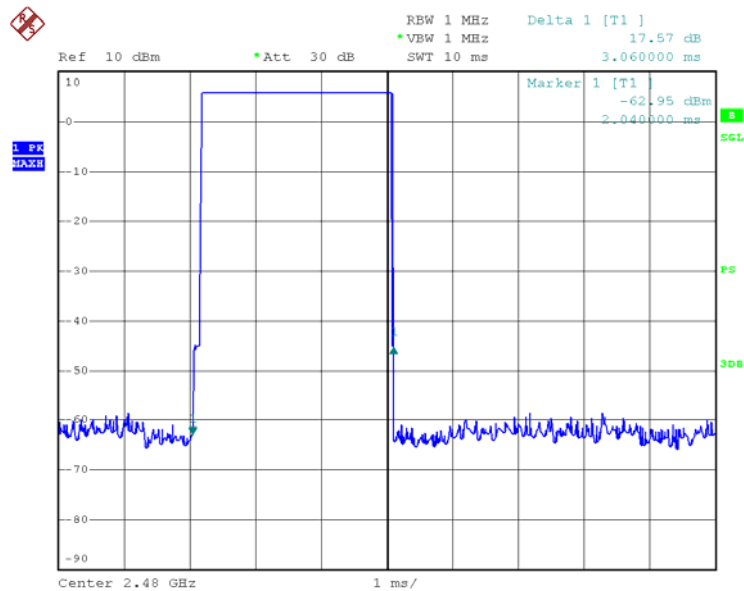
Date: 17.OCT.2012 17:38:26

DH3



Date: 17.OCT.2012 17:40:44

DH5

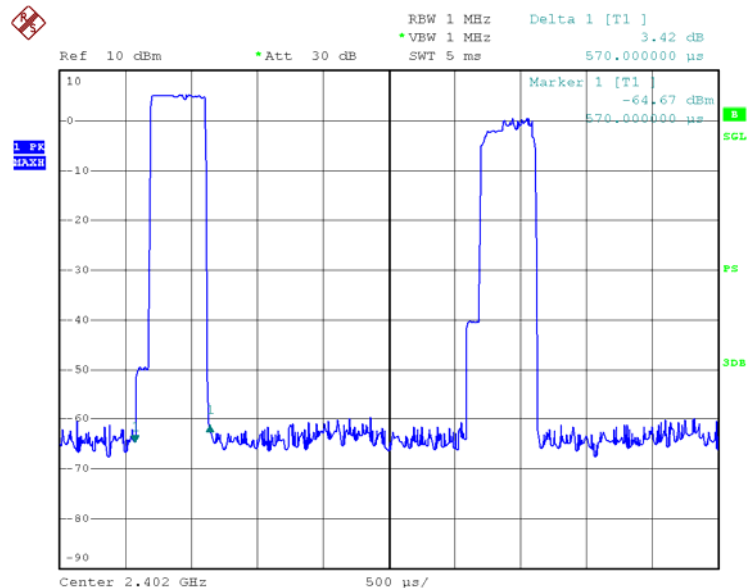


Date: 17.OCT.2012 17:32:36

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity :	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	2402MHz (DH1/DH3/DH5) 3Mbps		

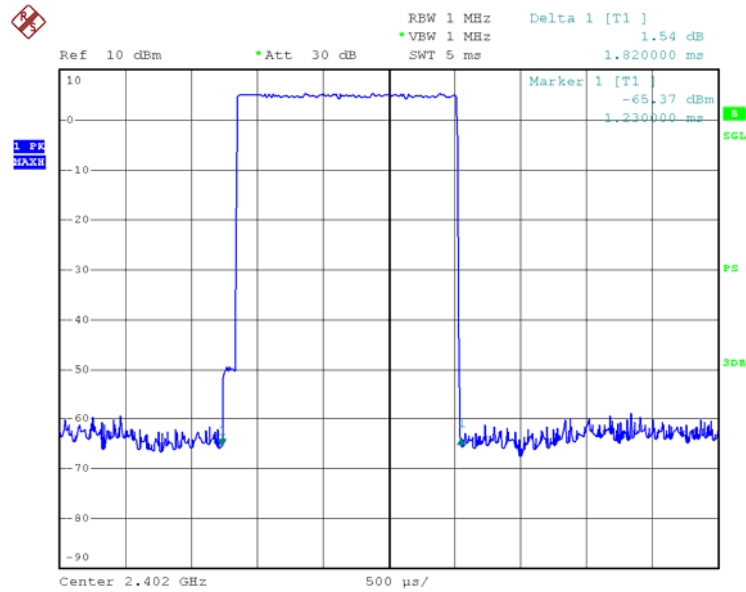
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2402	0.570	0.182	0.400
DH3	2402	1.820	0.291	0.400
DH5	2402	3.090	0.329	0.400

DH1



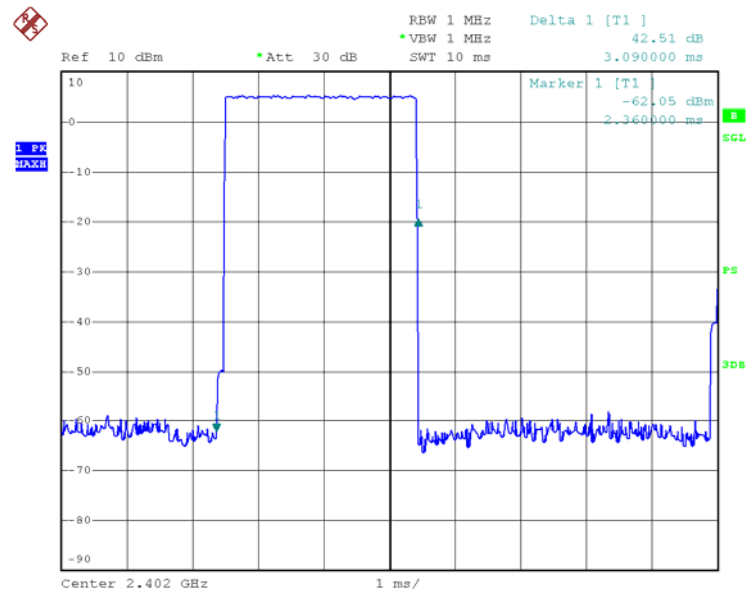
Date: 17.OCT.2012 17:21:56

DH3



Date: 17.OCT.2012 17:26:15

DH5

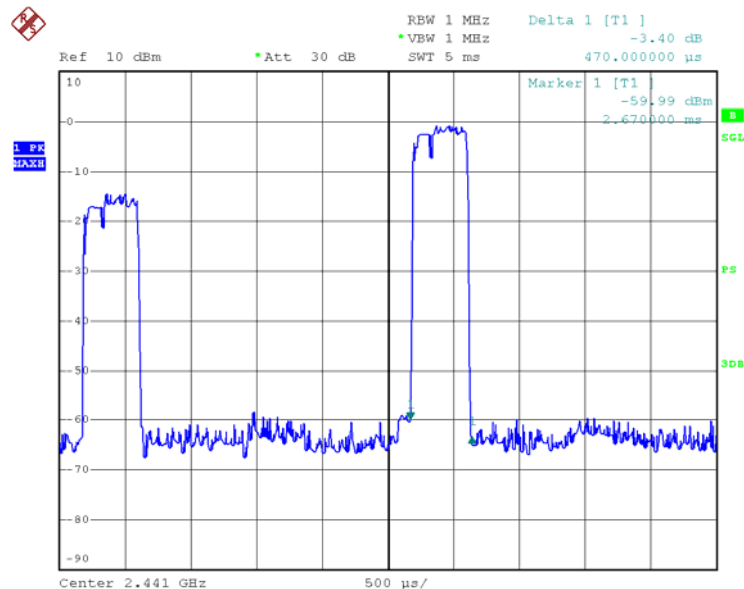


Date: 17.OCT.2012 17:27:27

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity :	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	2441MHz (DH1/DH3/DH5) 3Mbps		

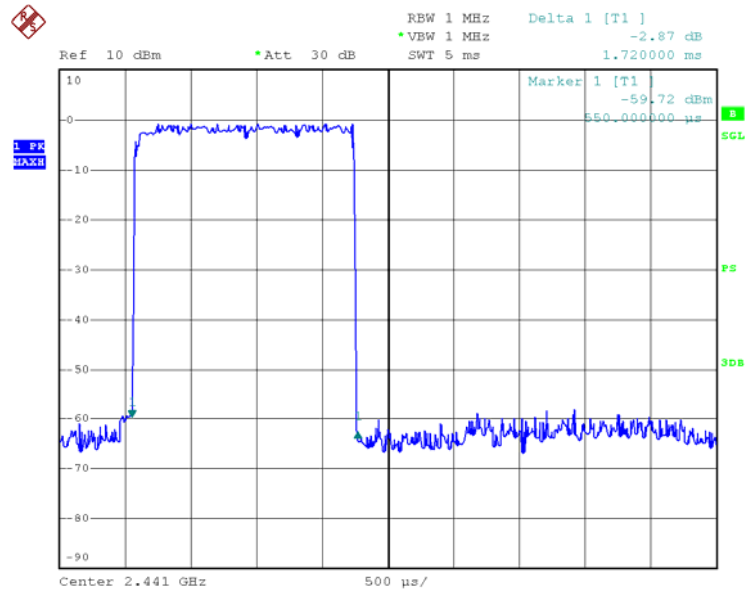
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441	0.470	0.150	0.400
DH3	2441	1.720	0.275	0.400
DH5	2441	3.090	0.329	0.400

DH1



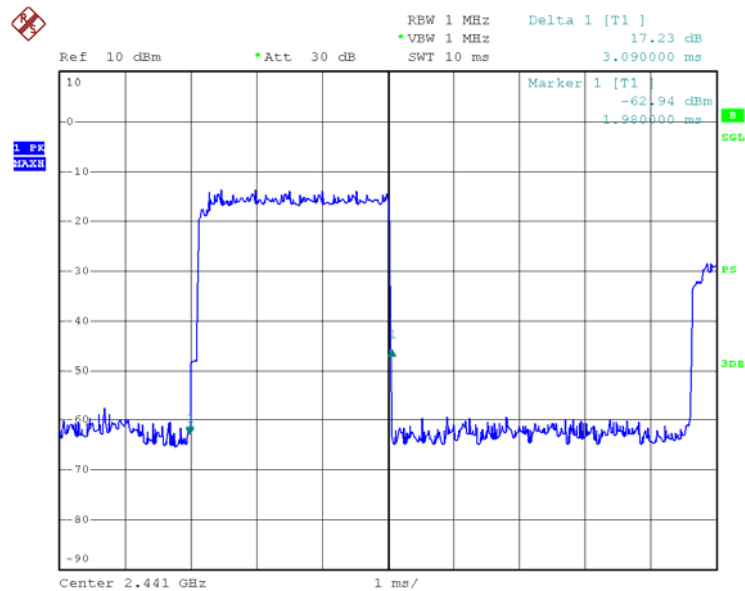
Date: 17.OCT.2012 17:22:51

DH3



Date: 17.OCT.2012 17:25:31

DH5

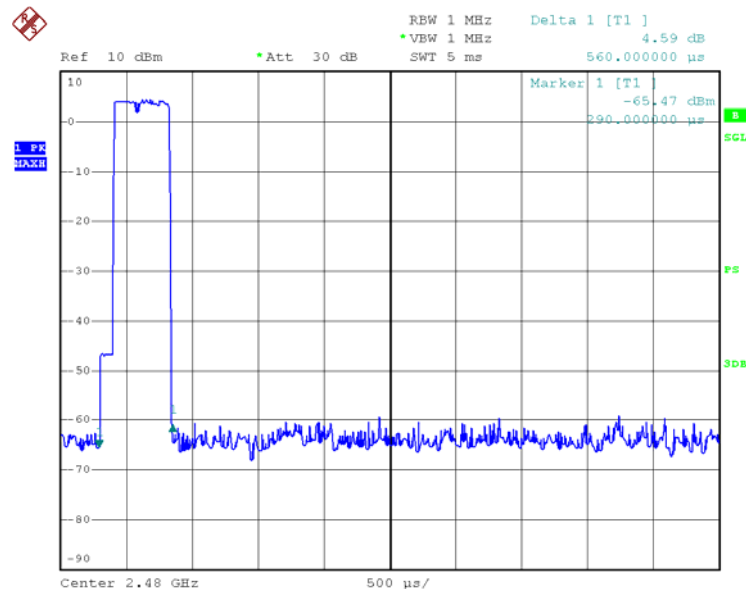


Date: 17.OCT.2012 17:28:40

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity :	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	2480MHz (DH1/DH3/DH5) 3Mbps		

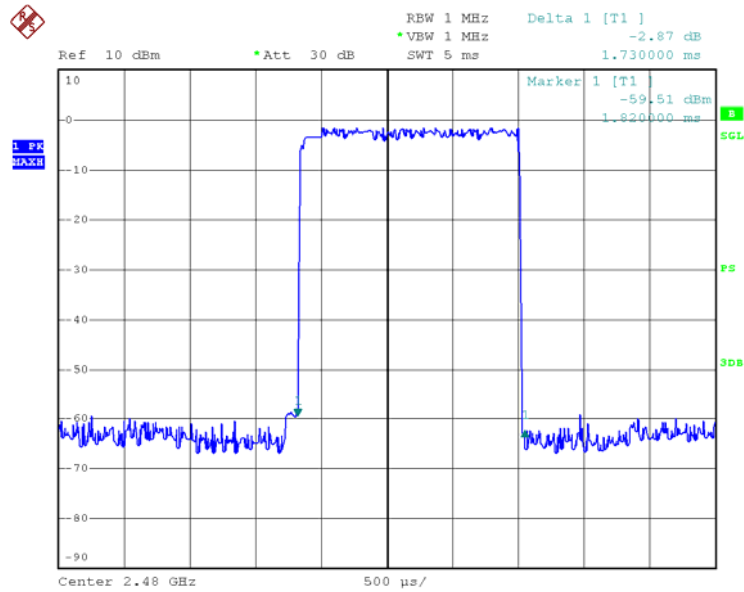
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2480	0.560	0.179	0.400
DH3	2480	1.730	0.276	0.400
DH5	2480	3.000	0.320	0.400

DH1



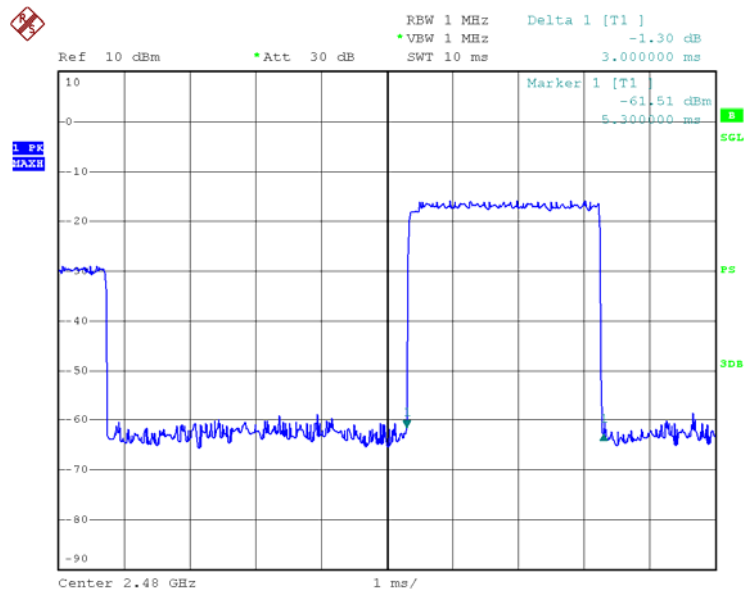
Date: 17.OCT.2012 17:23:36

DH3



Date: 17.OCT.2012 17:24:45

DH5



Date: 17.OCT.2012 17:29:30

7 Hopping Channel Separation

7.1 Test Standard and Limit

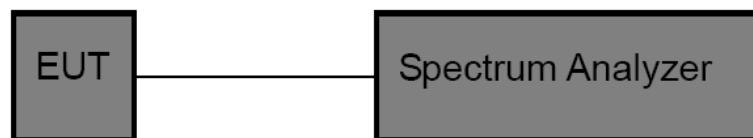
7.1.1 Test Standard

EN 300 328 V1.7.1:2006 clause 4.3.4.2

7.1.2 Limits

Test Item	Frequency Range (MHz)	Limit	Result
Hopping Channel Separation	2400-2483.5	1MHz Or Two-thirds of the 20 dB bandwidth.	PASS

7.2 Test Setup



7.3 Test Procedure

1. The transmitter output was connected to the spectrum analyzer.
2. Set the spectrum analyzer as follows to measure the 20 dB bandwidth.
 - Resolution BW : 30kHz.
 - Resolution BW :100kHz.
 - Detector : Peak.
 - Trace Mode : Max Hold.
 - Sweep time : Auto.
 - Span : Wide enough to capture the channel separation.
3. Set the spectrum analyzer as follows to measure the 20 dB bandwidth.
 - Resolution BW : 30kHz.
 - Resolution BW :100kHz.
 - Detector : Peak.
 - Trace Mode : Max Hold.
 - Sweep time : Auto.
 - Span : Wide enough to capture the channel separation.

7.4 Test Equipment Used

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	ROHDE&SCHWARZ	FSEA20	DE25181	2012-08-12	2013-08-11
DC power supply	GVE	PL0825	N/A	N/A	N/A

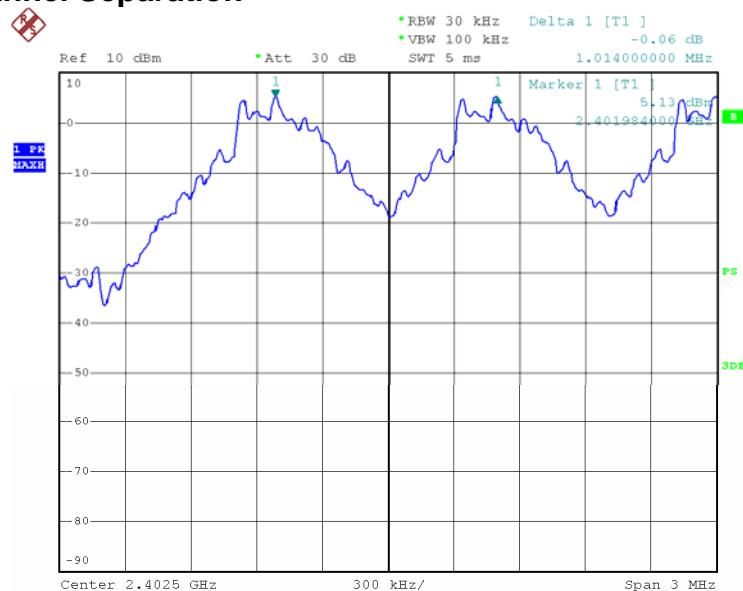
7.5 Test Data

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity :	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	2402MHz/2441MHz/2480MHz 1Mbps		

Ch. Separation Limits:> 20dB bandwidth or >2/3 20 dB bandwidth

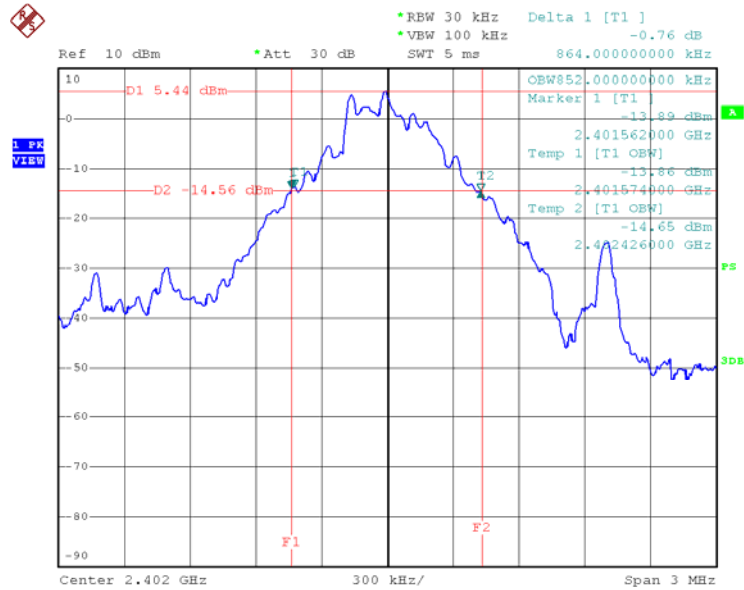
Frequency (MHz)	Ch. Separation (MHz)	20dB Bandwidth (kHz)	99%Occupied Bandwidth (kHz)	Result
2402	1.014	864.00	852.00	Pass
2441	1.002	876.00	846.00	Pass
2480	1.002	882.00	840.00	Pass

2402 MHz Channel Separation



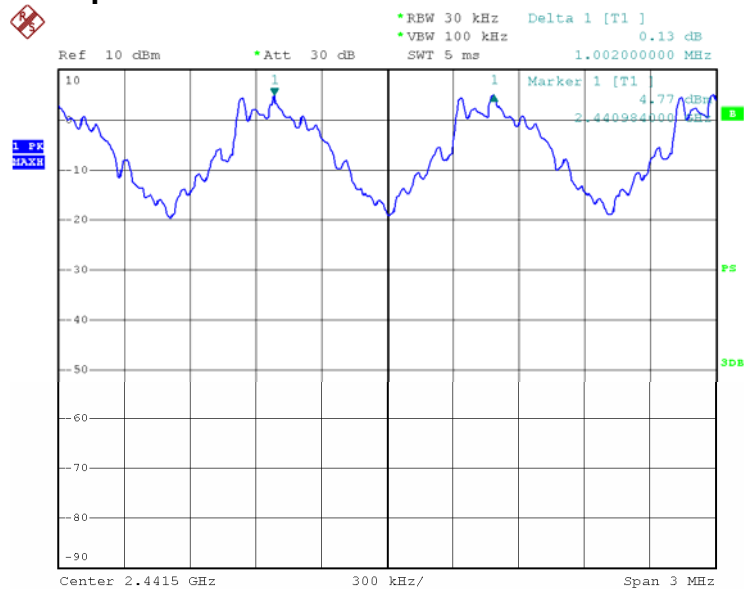
Date: 17.OCT.2012 17:45:11

2402 MHz Bandwidth



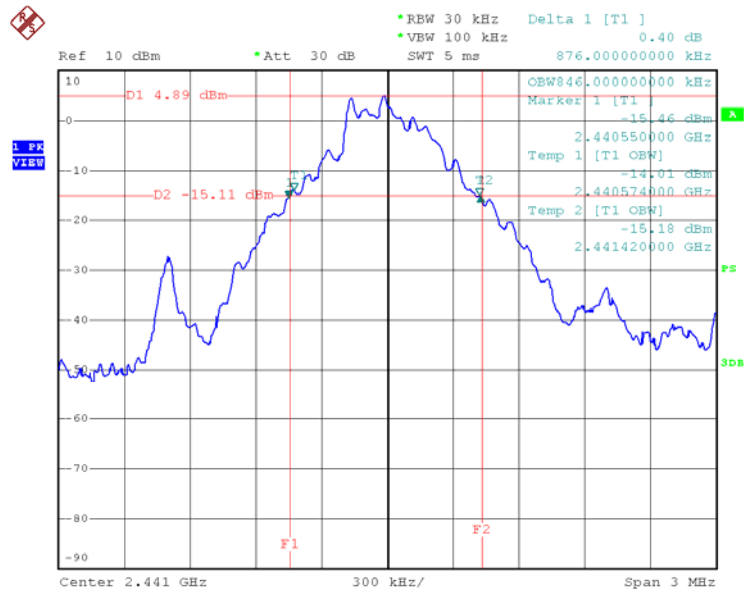
Date: 17.OCT.2012 16:51:12

2441MHz Channel Separation



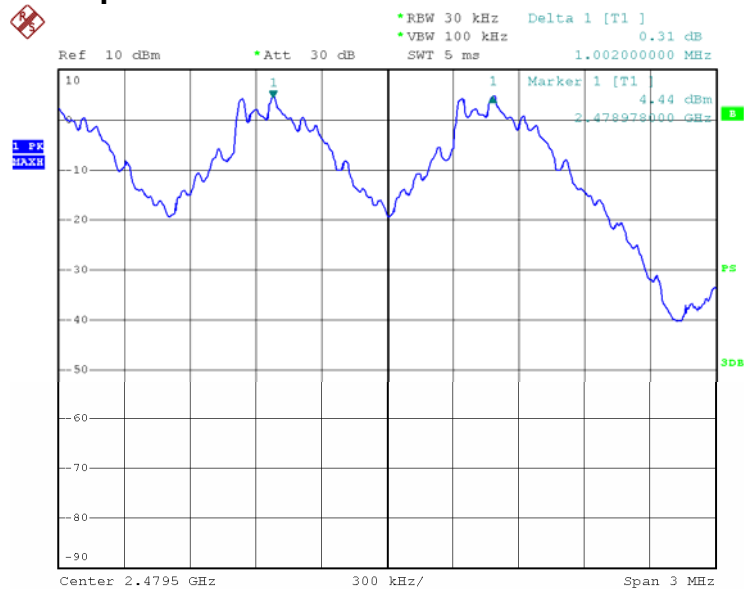
Date: 17.OCT.2012 17:46:37

2441 MHz Bandwidth



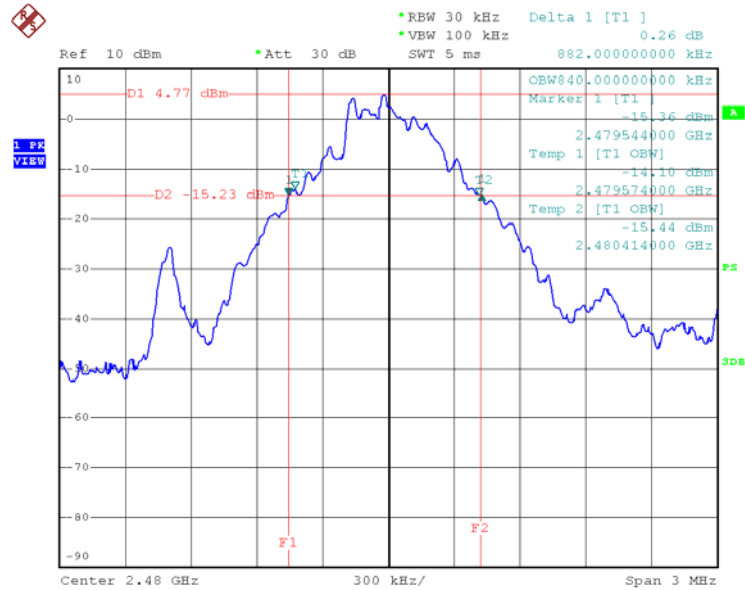
Date: 17.OCT.2012 16:42:13

2480 MHz Channel Separation



Date: 17.OCT.2012 17:47:22

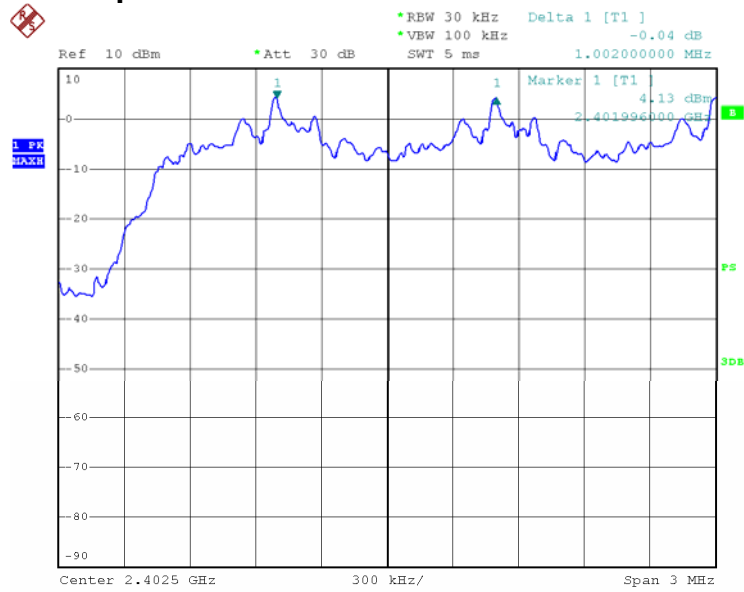
2480 MHz Bandwidth



Date: 17.OCT.2012 16:54:14

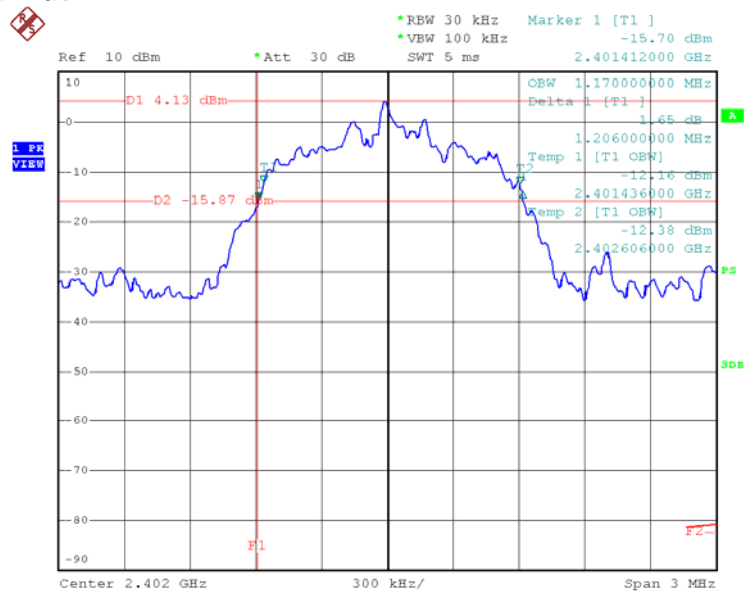
EUT:	Bluetooth Headphone	Model Name :	H1	
Temperature:	26°C	Relative Humidity :	60%	
Pressure:	1010 hPa	Test Voltage :	DC 3.7V	
Test Mode:	2402MHz/2441MHz/2480MHz 3Mbps			
Ch. Separation Limits:> 20dB bandwidth or >2/3 20 dB bandwidth				
Frequency (MHz)	Ch. Separation (MHz)	20dB Bandwidth (kHz)	99%Occupied Bandwidth (kHz)	Result
2402	1.002	1206.00	1170.00	Pass
2441	1.002	1224.00	1170.00	Pass
2480	1.008	1224.00	1158.00	Pass

2402 MHz Channel Separation



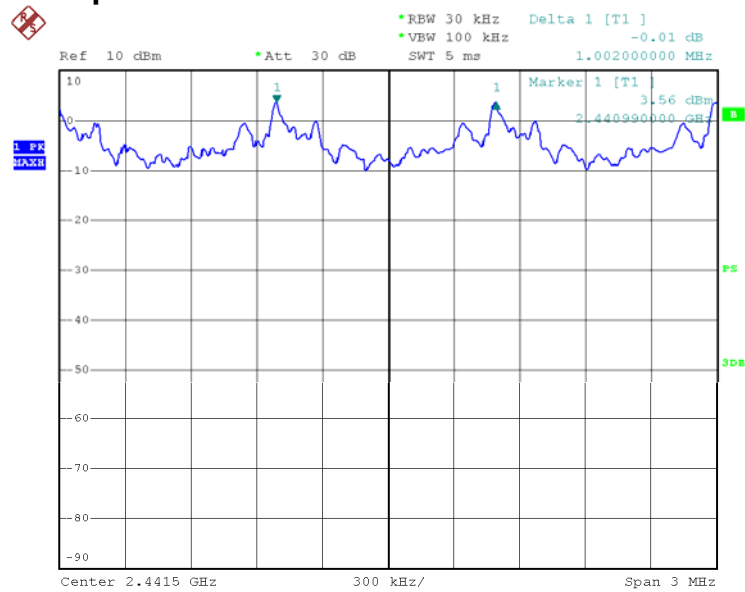
Date: 17.OCT.2012 17:50:42

2402 MHz Bandwidth



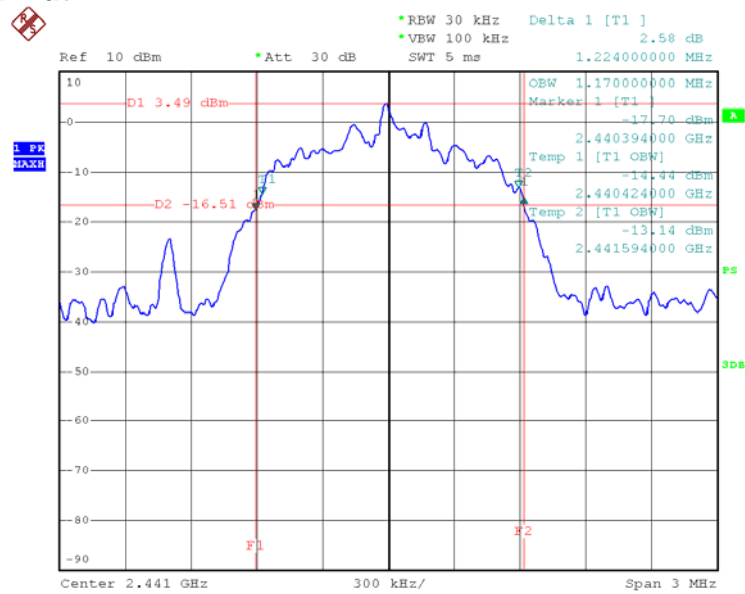
Date: 17.OCT.2012 17:13:51

2441MHz Channel Separation



Date: 17.OCT.2012 17:49:23

2441 MHz Bandwidth



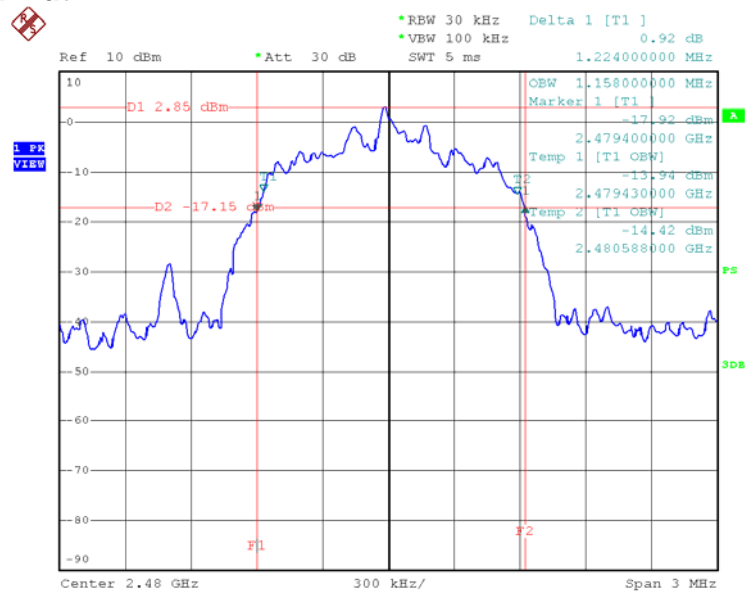
Date: 22.OCT.2012 14:14:12

2480 MHz Channel Separation



Date: 17.OCT.2012 17:48:34

2480 MHz Bandwidth



Date: 17.OCT.2012 17:10:26

8 Spurious Emissions-TRANSMITTER

8.1 Test Standard and Limit

8.1.1 Test Standard

EN 300 328 V1.7.1:2006 clause 4.3.6

8.1.2 Limits

Transmitter limits for narrowband spurious emissions

Frequency Range	Limit when Operating	Limit when in Standby
30MHz to 1 GHz	-36 dBm	-57 dBm
Above 1 GHz to 12.75 GHz	-30 dBm	-47 dBm
1.8 GHz to 1.9 GHz 5.15 GHz to 5.3 GHz	-47 dBm	-47 dBm

The above limit values apply to narrowband emissions, e.g. as caused by local oscillator leakage. The measurement bandwidth for such emissions may be as small as necessary to achieve a reliable measurement result.

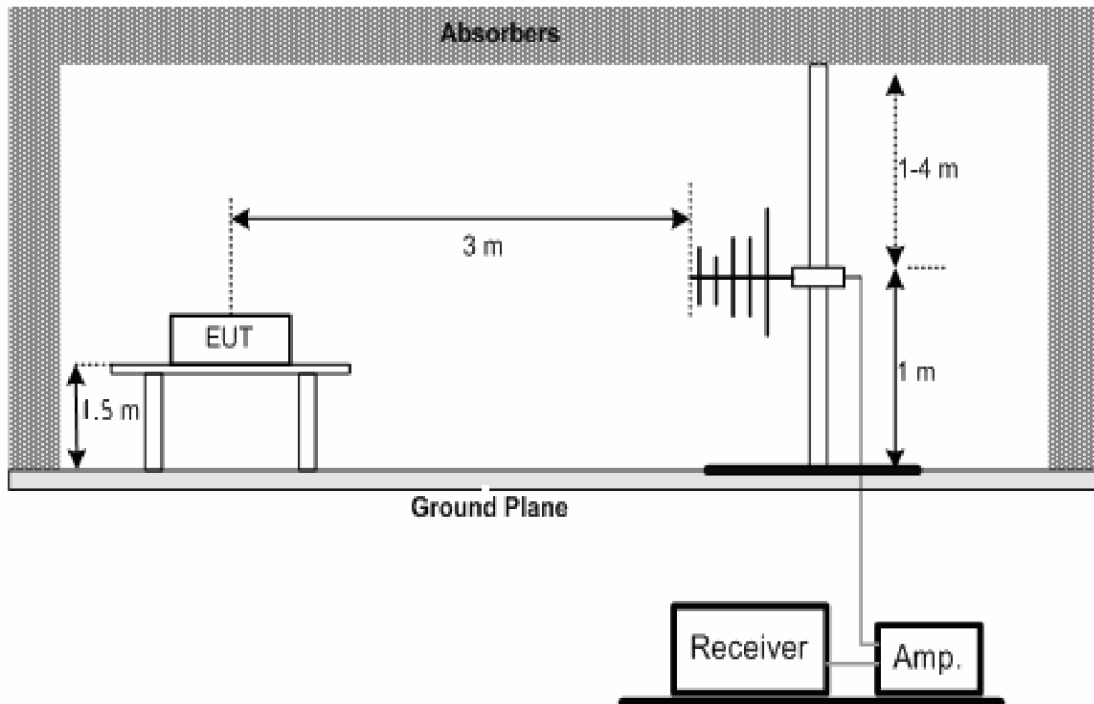
Wideband emissions shall not exceed the values given as follows:

Transmitter limits for wideband spurious emissions

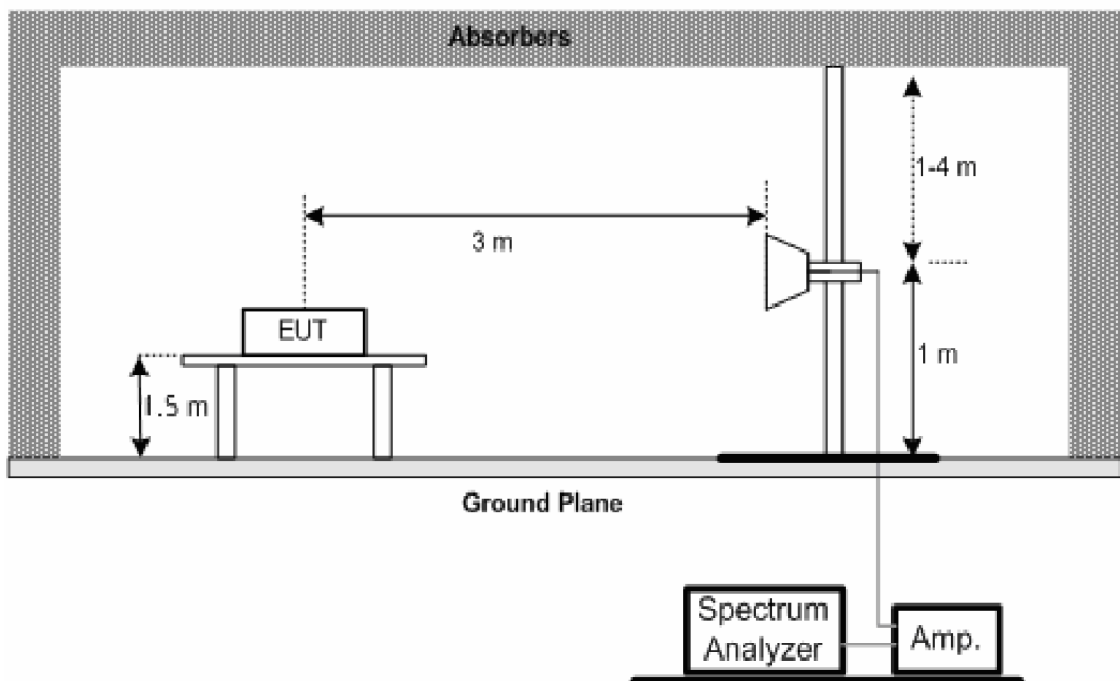
Frequency Range	Limit when Operating	Limit when in Standby
30MHz to 1 GHz	-86 dBm/Hz	-107 dBm/Hz
Above 1 GHz to 12.75 GHz	-80 dBm/Hz	-97 dBm/Hz
1.8 GHz to 1.9 GHz 5.15 GHz to 5.3 GHz	-97 dBm/Hz	-97 dBm/Hz

8.2 Test Setup

(A) Radiated Emission Test Set-Up Frequency Bellow 1 GHz.



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz.



8.3 Test Procedure

1. The EUT was placed on the top of the turntable in chamber.
2. The test shall be made in the transmitting mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. Set the spectrum analyzer as follows to measure the emissions:
 - Resolution BW : 100 kHz.
 - Resolution BW :30 kHz.
 - Detector : Peak.
 - Trace Mode : Max Hold.
 - Sweep time : 1s.
 - Span :100M.
 - Amplitude :Adjust for middle of the instrument's range.
4. For 30~1000MHz spurious emissions measurement, the broad band bi-log receiving antenna was placed 3 meters far away from the turntable. .
5. The broadband receiving antenna was fixed on the same height with the EUT to find each suspected emissions of both horizontal and vertical polarization. Each recorded suspected value is indicated as Read Level (Raw).
6. Replace the EUT by standard antenna and feed the RF port by signal generator.
7. Adjust the frequency of the signal generator to the suspected emission and slightly rotate the turntable to locate the position with maximum reading.
8. Adjust the power level of the signal generator to reach the same reading with Read Level (Raw).
9. The level of the spurious emission is the power level of (g) plus the gain of the standard antenna in dBi and minus the loss of the cable used between the signal generator and the standard antenna.
10. If the measuring emissions that exceed the level of 6 dB below the applicable limit, the resolution bandwidth shall be switched to 30 kHz and the span shall be adjusted accordingly. If the level does not change by more than 2 dB, it is a narrowband emission; the observed value shall be recorded. If the level changes by more than 2 dB, the emission is a wideband emission and its level shall be measured and recorded.
11. The measurement shall be repeated at the lowest and the highest channel of the stated frequency range.

8.4 Test Equipment Used

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	ROHDE&SCHWARZ	FSEA20	DE25181	2012-08-12	2013-08-11
Positioning Controller	C&C	CC-C-1F	N/A	2012-08-12	2013-08-11

Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2012-07-21	2013-07-20
Horn Antenna	SCHWARZBECK	BBHX 9120	9120-426	2012-07-21	2013-07-20
RF Switch	EM	EMSW18	SW060023	2012-08-12	2013-08-11
Amplifier	Agilent	8447F	3113A06717	2012-08-12	2013-08-11
Coaxial Cable	SCHWARZBECK	AK9513	9513-10	2012-08-12	2013-08-11
EMI Test Receiver	ROHDE& SCHWARZ	ESPI	25498514	2012-08-12	2013-08-11
EMI Test Receiver	ROHDE& SCHWARZ	ESI26	838786/103	2012-08-12	2013-08-11

8.5 Test Data

(1) Bellow 1 G

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity:	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402 MHz		

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
43.5800	V	TX	-71.77	-36.00	35.77	
148.3400	V	TX	-66.22	-36.00	30.22	
295.7800	V	TX	-69.47	-36.00	33.47	
553.8500	V	TX	-70.36	-36.00	34.36	
726.4600	V	TX	-68.01	-36.00	32.01	
891.3600	V	TX	-60.11	-36.00	24.11	

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
69.7000	H	TX	-59.45	-36.00	23.45	
166.5000	H	TX	-68.38	-36.00	32.38	
296.2000	H	TX	-72.35	-36.00	36.35	
458.9300	H	TX	-67.45	-36.00	31.45	
679.6300	H	TX	-62.40	-36.00	26.40	
815.1400	H	TX	-59.01	-36.00	23.01	

(2) Above 1 G

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity:	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Transmit 2402 MHz 1Mbps		

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
4804.000	V	TX	-39.60	-30.00	9.60	
7206.100	V	TX	-49.03	-30.00	19.03	
---	V	TX	---	---	---	
---	V	TX	---	---	---	
---	V	TX	---	---	---	
---	V	TX	---	---	---	

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
4804.000	H	TX	-46.31	-30.00	16.31	
7206.100	H	TX	-58.61	-30.00	28.61	
---	H	TX	---	---	---	
---	H	TX	---	---	---	
---	H	TX	---	---	---	
---	H	TX	---	---	---	

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity:	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Transmit 2480 MHz 1Mbps		

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
4960.300	V	TX	-40.25	-30.00	10.25	
7440.600	V	TX	-49.60	-30.00	19.60	
---	V	TX	---	---	---	
---	V	TX	---	---	---	
---	V	TX	---	---	---	
---	V	TX	---	---	---	

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
4960.300	H	TX	-48.86	-30.00	18.86	
7440.600	H	TX	-55.23	-30.00	25.23	
---	H	TX	---	---	---	
---	H	TX	---	---	---	
---	H	TX	---	---	---	
---	H	TX	---	---	---	

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity:	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Transmit 2402 MHz 3Mbps		

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
4804.200	V	TX	-45.40	-30.00	15.40	
7206.300	V	TX	-50.27	-30.00	20.27	
---	V	TX	---	---	---	
---	V	TX	---	---	---	
---	V	TX	---	---	---	
---	V	TX	---	---	---	

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
4804.200	H	TX	-48.26	-30.00	18.26	
7206.300	H	TX	-56.37	-30.00	26.37	
---	H	TX	---	---	---	
---	H	TX	---	---	---	
---	H	TX	---	---	---	
---	H	TX	---	---	---	

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity:	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Transmit 2480 MHz 3Mbps		

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
4959.700	V	TX	-46.72	-30.00	16.72	
7440.100	V	TX	-52.37	-30.00	22.37	
---	V	TX	---	---	---	
---	V	TX	---	---	---	
---	V	TX	---	---	---	
---	V	TX	---	---	---	

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
4959.700	H	TX	-49.41	-30.00	19.41	
7440.100	H	TX	-55.36	-30.00	25.36	
---	H	TX	---	---	---	
---	H	TX	---	---	---	
---	H	TX	---	---	---	
---	H	TX	---	---	---	

9 Spurious Emissions-RECEIVER

9.1 Test Standard and Limit

9.1.1 Test Standard

EN 300 328 V1.7.1:2006 clause 4.3.7

9.1.2 Limits

Receiver limits for narrowband spurious emissions

Frequency Range	Limit
30MHz to 1 GHz	-57 dBm
Above 1 GHz to 12.75 GHz	-47 dBm

The above limit values apply to narrowband emissions, e.g. as caused by local oscillator leakage. The measurement bandwidth for such emissions may be as small as necessary to achieve a reliable measurement result.

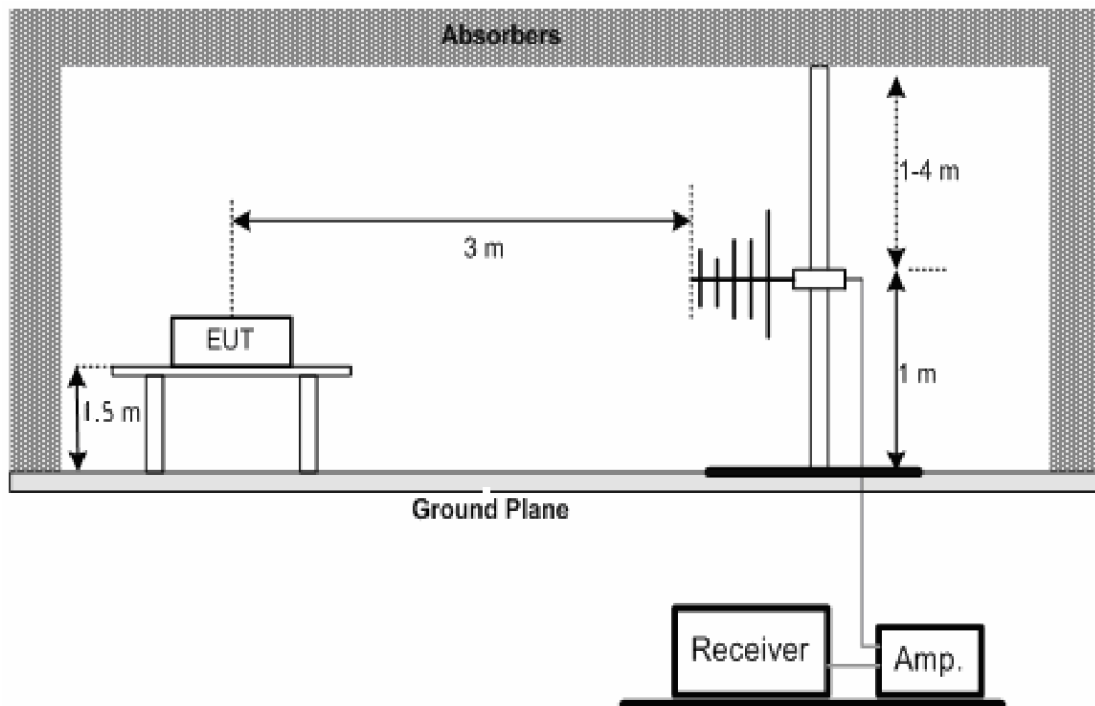
Wideband emissions shall not exceed the values given as follows:

Receiver limits for wideband spurious emissions

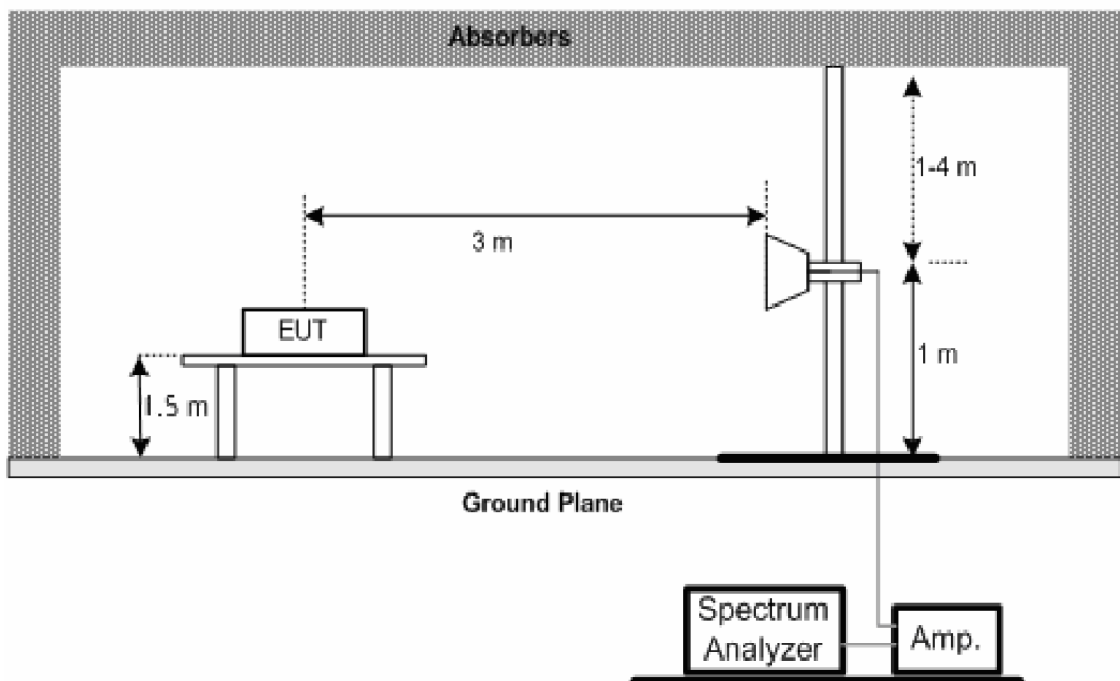
Frequency Range	Limit when Operating
30MHz to 1 GHz	-107 dBm/Hz
Above 1 GHz to 12.75 GHz	-97 dBm/Hz

9.2 Test Setup

(A) Radiated Emission Test Set-Up Frequency Bellow 1 GHz.



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz.



9.3 Test Procedure

1. The EUT was placed on the top of the turntable in chamber.
2. The test shall be made in the transmitting mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. Set the spectrum analyzer as follows to measure the emissions:
 - Resolution BW : 100 kHz.
 - Resolution BW :30 kHz.
 - Detector : Peak.
 - Trace Mode : Max Hold.
 - Sweep time : 1s.
 - Span :100M.
 - Amplitude :Adjust for middle of the instrument's range.
4. For 30~1000MHz spurious emissions measurement, the broad band bi-log receiving antenna was placed 3 meters far away from the turntable. .
5. The broadband receiving antenna was fixed on the same height with the EUT to find each suspected emissions of both horizontal and vertical polarization. Each recorded suspected value is indicated as Read Level (Raw).
6. Replace the EUT by standard antenna and feed the RF port by signal generator.
7. Adjust the frequency of the signal generator to the suspected emission and slightly rotate the turntable to locate the position with maximum reading.
8. Adjust the power level of the signal generator to reach the same reading with Read Level (Raw).
9. The level of the spurious emission is the power level of (g) plus the gain of the standard antenna in dBi and minus the loss of the cable used between the signal generator and the standard antenna.
10. If the measuring emissions that exceed the level of 6 dB below the applicable limit, the resolution bandwidth shall be switched to 30 kHz and the span shall be adjusted accordingly. If the level does not change by more than 2 dB, it is a narrowband emission; the observed value shall be recorded. If the level changes by more than 2 dB, the emission is a wideband emission and its level shall be measured and recorded.
11. The measurement shall be repeated at the lowest and the highest channel of the stated frequency range.

9.4 Test Equipment Used

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	ROHDE& SCHWARZ	FSEA20	DE25181	2012-08-12	2013-08-11
Positioning Controller	C&C	CC-C-1F	N/A	2012-08-12	2013-08-11

Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2012-07-21	2013-07-20
Horn Antenna	SCHWARZBECK	BBHX 9120	9120-426	2012-07-21	2013-07-20
RF Switch	EM	EMSW18	SW060023	2012-08-12	2013-08-11
Amplifier	Agilent	8447F	3113A06717	2012-08-12	2013-08-11
Coaxial Cable	SCHWARZBECK	AK9513	9513-10	2012-08-12	2013-08-11
EMI Test Receiver	ROHDE& SCHWARZ	ESPI	25498514	2012-08-12	2013-08-11
EMI Test Receiver	ROHDE& SCHWARZ	ESI26	838786/103	2012-08-12	2013-08-11

9.5 Test Data

Please see the following pages.

(1) Bellow 1 G

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity:	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	RX 2402 MHz		

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
69.7100	V	RX	-69.42	-57.00	12.42	
166.5000	V	RX	-73.35	-57.00	16.35	
296.3200	V	RX	-70.53	-57.00	13.53	
458.9100	V	RX	-72.65	-57.00	15.65	
679.5400	V	RX	-69.22	-57.00	12.22	
815.1100	V	RX	-66.23	-57.00	9.23	

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
44.5000	H	RX	-69.20	-57.00	12.20	
112.3600	H	RX	-75.61	-57.00	18.61	
292.3000	H	RX	-72.85	-57.00	15.85	
487.9000	H	RX	-72.32	-57.00	15.32	
749.3100	H	RX	-69.14	-57.00	12.14	
910.3000	H	RX	-67.03	-57.00	10.03	

(2) Above 1 G

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity:	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Receive 2402 MHz 1Mbps		

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
1600.100	V	RX	-58.05	-47.00	11.05	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
1601.000	H	RX	-64.20	-47.00	17.20	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity:	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Receive 2480 MHz 1Mbps		

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
1660.100	V	RX	-59.82	-47.00	11.82	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
1660.200	H	RX	-63.05	-47.00	16.05	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity:	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Receive 2402 MHz 3Mbps		

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
1600.000	V	RX	-57.30	-47.00	10.30	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
1600.100	H	RX	-64.15	-47.00	17.15	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	

EUT:	Bluetooth Headphone	Model Name :	H1
Temperature:	26°C	Relative Humidity:	60%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Receive 2480 MHz 3Mbps		

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
1660.300	V	RX	-58.30	-47.00	11.30	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	
---	V	RX	---	-47.00	---	

Frequency (MHz)	Ant H / V	TX/RX	Measured (dBm)	Limits (dBm)	Margins	Note
1660.100	H	RX	-63.71	-47.00	16.71	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	
---	H	RX	---	-47.00	---	

10 Photographs - Constructional Details

Photo 1 Appearance of EUT

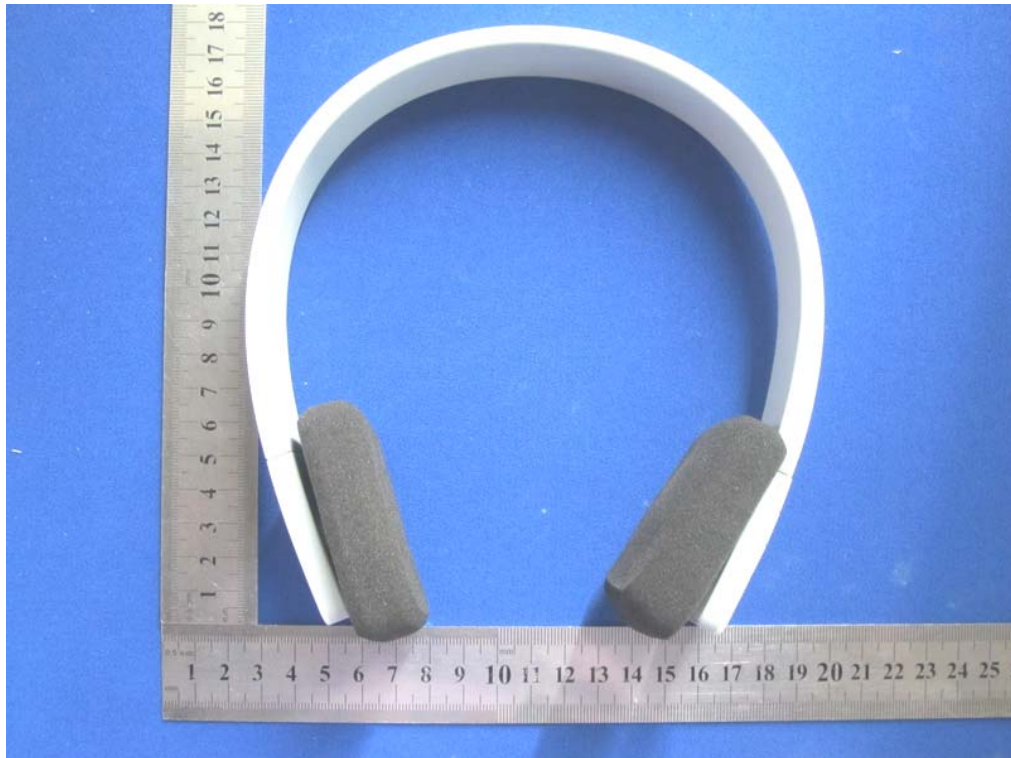


Photo 2 Appearance of EUT

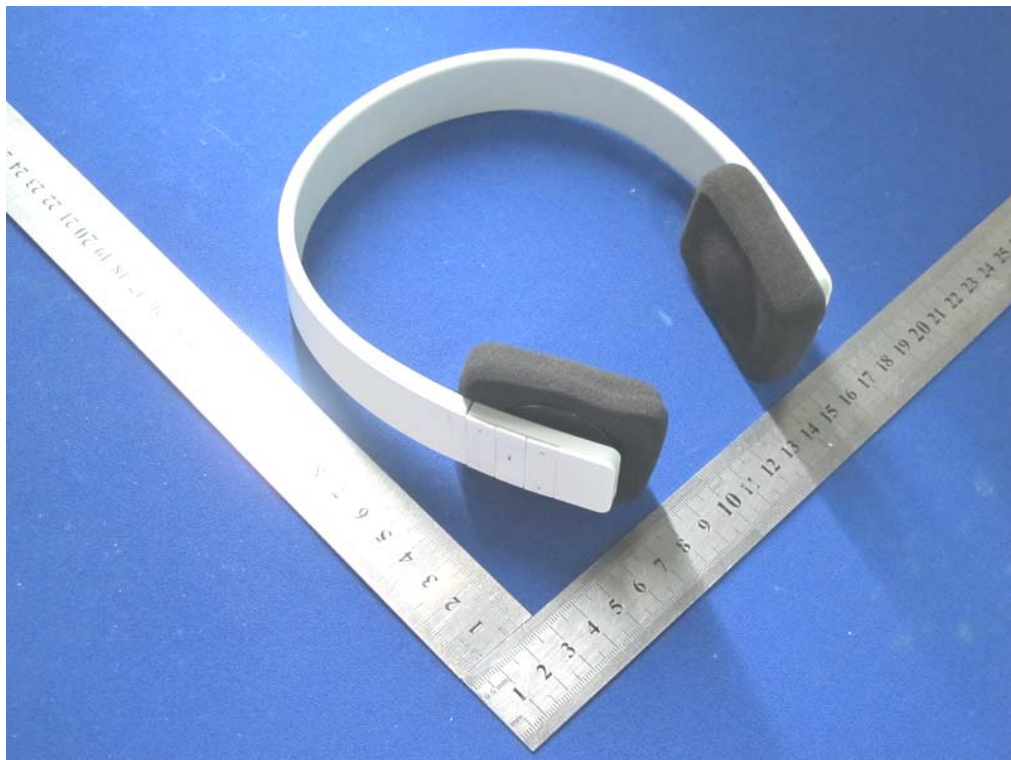


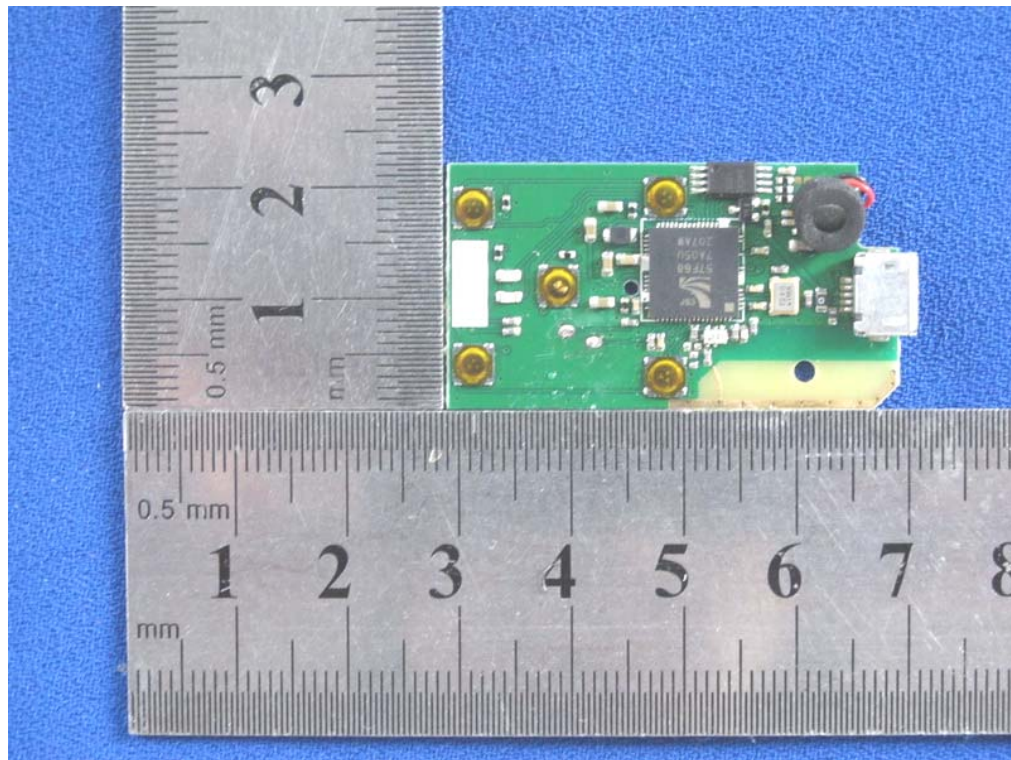
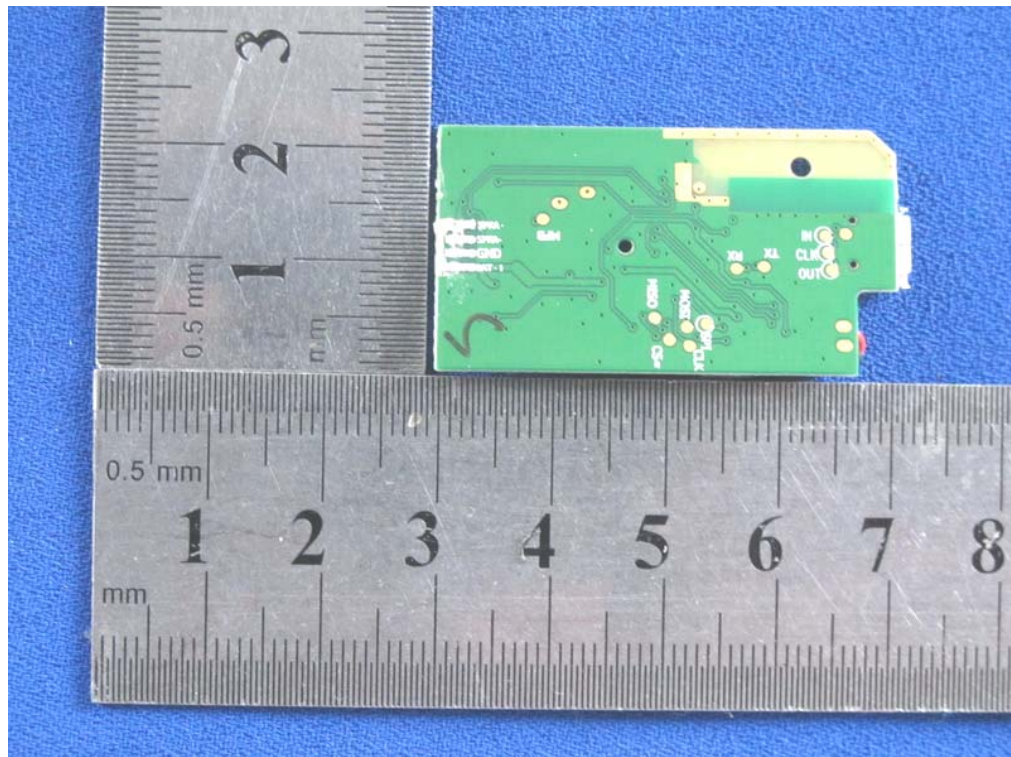
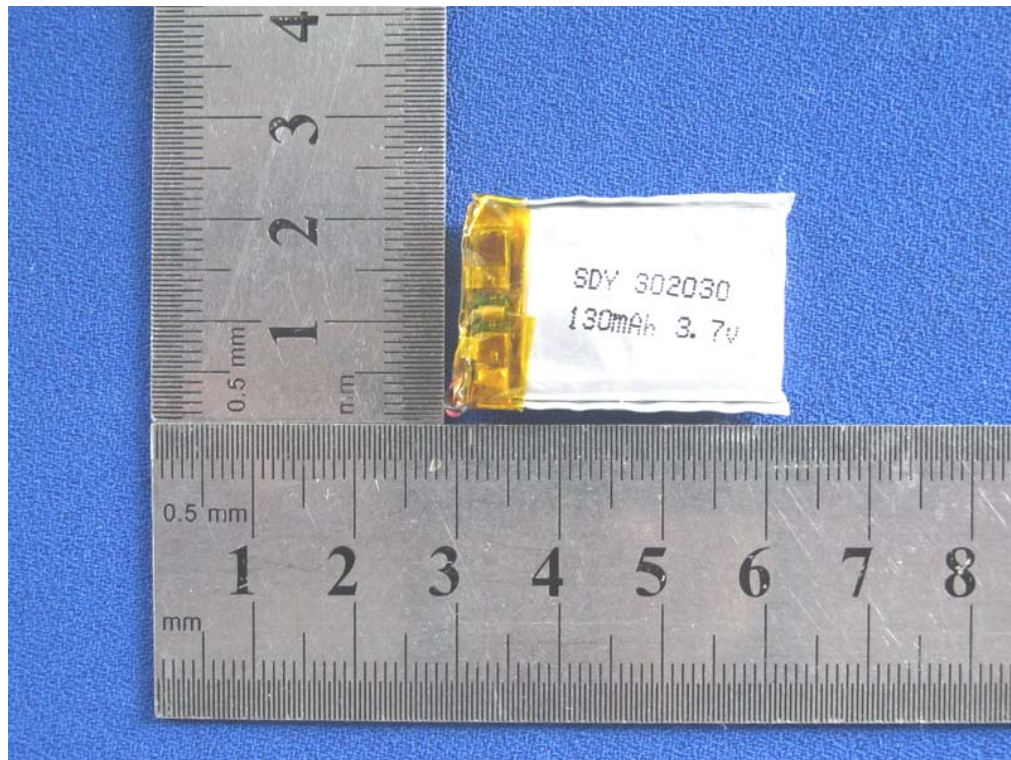
Photo 3 Internal of EUT**Photo 4 Appearance of PCB**

Photo 5 Appearance of Battery

11 Photographs – Test Setup

Radiation Test Setup (Bellow 1GHz)



Radiation Test Setup (Above 1GHz)

