



ISO/IEC17025 Accredited Lab.

Report No: EMC1409094-01

File reference No: 2014-09-30

Applicant:

Product: Shower Bluetooth Speaker

Brand Name: ILE

Model No: BTS-51

Test Standards: ETSI EN 300 328 V 1.8.1 (2012-06)

Test result: The EMC testing has been performed on the submitted samples and found in compliance with council EMC Directive 2004/108/EC and R & TTE Directive 1999/5/EC

Approved By

Terry Tang

EMC Manager

Dated: Sep 30, 2014

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timewaytech.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC- Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

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Test Report Conclusion

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1. General Information

1.1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The TIMEWAY Lab does not assume Responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the TIMEWAY Lab.

1.2 Testing Laboratory

SHENZHEN TIMEWAY TESTING LABORATORIES

East 5/Block 4, Anhua Industrial Zone, No.8,Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA

Tel: +86 755 83448688 Fax :+86 755 83442996

Internet: www.timewaytech.com

Site on File With the Federal Communications and Commission – United States

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m & 10 m OATS

1.3 Details of Applicant

Name:

Address:

1. 4 Application Details

Date of Receipt of Application: Sep 11, 2014

Date of Receipt of Test Item: Sep 11, 2014

Date of Test: Sep 11, 2014~ Sep 29, 2014

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1.5 Test Item

Manufacturer:

Address:

Brand Name: N/A

Model No.: BTS-51

Additional Model No.: ILE

Additional Brand Name: N/A

Description: Shower Bluetooth Speaker

Additional Information

Frequency: 2402-2480MHz

Number of Channels: 79

Antenna Designation: PCB antenna, and the maximum Gain of this antenna is 0dBi

Type of Modulation: GFSK, $\pi/4$ QPSK, 8DPSK

Extreme Temp. Tolerance: -20°C to 55°C

1.6 Test Standards

ETSI EN 300 328 v 1.8.1 (2012-06)

Electromagnetic compatibility and Radio spectrum Matters(ERM);

Wideband Transmission systems;

Data transmission equipment operating in the 2.4GHz ISM band and using spread spectrum modulation techniques;

Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

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1.7 Configuration of The EUT

The EUT was configured according to **CISPR16**. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model
Shower Bluetooth Speaker	Richen Industrial Co., Ltd.	BTS-51

B. Internal Devices

Device	Manufacturer	Model
N/A		

C. Peripherals

Device	Manufacturer	Model	Cable
N/A			

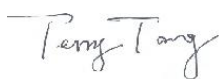
D. EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

1.8 EUT Modifications

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

Tests or Witness Test Engineering

Test By: 
Printing Name: Terry Tang

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2. Technical Test

2.1 Summary of Test Results

No deviations from the technical specification(s) were ascertained in the course of the tests Performed	
Final Verdict: (Only "Passed" if all Measurements are "Passed")	Pass

2.2 Test Report

Test Report Reference

List of Measurements		
Parameter to be measured	Clause	Result
Transmitter Parameters		
RF output power	Clause 4.3.1.1	Pass
Duty Cycle, Tx-sequence, Tx-gap	Clause 4.3.1.2	N/A
Dwell Time, Minimum Frequency Occupation and Hopping Sequence	Clause 4.3.1.3	Pass
Hopping Frequency Separation	Clause 4.3.1.4	Pass
Medium Utilisation (MU) Factpr	Clause 4.3.1.5	N/A
Adaptivity (Adaptive Frequency Hopping)	Clause 4.3.1.6	N/A
Occupied Channel Bandwidth	Clause 4.3.1.7	Pass
Transmitter unwanted emissions in the out-of-band domain	Clause 4.3.1.8	Pass
Transmitter unwanted emissions in the spurious domain	Clause 4.3.1.9	Pass
Receiver Parameters		
Receiver Spurious Emissions	Clause 4.3.1.10	Pass
Receiver Blocking	Clause 4.3.1.11	N/A

Note: The clause numbers are referenced to ETSI EN 300 328 V 1.8.1(2012-06)

Note: N/A= Not applicable. Because these requirements do not apply for equipment with a maximum declared RF Output power of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p. For the EUT, the RF output power less than 10dBm.

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Clause 4.3.1.1 RF output Power (Conducted)

Test Method according to clause 5.3.2.2.1

GFSK Mode

Test Conditions	Transmitter Power (dBm) EIRP				
	T _{nom} (25°C)	T _{min} (-20°C)		T _{max} (55°C)	
	DC3.7V	3.3V	4.3V	3.3V	4.3V
Low Freq.2402MHz	2.42	2.46	2.45	2.45	2.47
Mid Freq.2441MHz	2.54	2.55	2.56	2.52	2.53
High Freq.2480MHz	2.76	2.80	2.82	2.77	2.81

π/4DQPSK Mode

Test Conditions	Transmitter Power (dBm) EIRP				
	T _{nom} (25°C)	T _{min} (-20°C)		T _{max} (55°C)	
	DC3.7V	3.3V	4.3V	3.3V	4.3V
Low Freq.2402MHz	1.17	1.16	1.13	1.42	1.40
Mid Freq.2441MHz	1.18	1.08	1.11	1.28	1.32
High Freq.2480MHz	1.42	1.35	1.39	1.49	1.45

8DPSK Mode

Test Conditions	Transmitter Power (dBm) EIRP				
	T _{nom} (25°C)	T _{min} (-20°C)		T _{max} (55°C)	
	DC3.7V	3.3V	4.3V	3.3V	4.3V
Low Freq.2402MHz	1.09	1.02	0.98	1.07	1.12
Mid Freq.2441MHz	1.12	1.10	1.02	1.08	1.13
High Freq.2480MHz	1.35	1.26	1.24	1.34	1.36

Limits: Clause 4.3.1.1.2

The maximum RF output power for adaptive Frequency Hopping equipment shall be equal to or less than 20 dBm.

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Clause 4.3.1.3 Dwell Time, Minimum Frequency Occupation and Hopping Sequence

For Adaptive frequency hopping system

Test method according to Clause 5.3.4.2.1

GFSK Mode

Dwell Time								
Mode	Number of Hopping Channel	Number of transmission in a period (Channel Number * 0.4sec)				Length of transmissions Time (ms)	Result (ms)	Limit (ms)
		Period (Sec)	Sweep Time (Sec)	Times in a sweep	Times in a period			
DH1	79	31.6	4	39	308.1ms	0.432	133.10	400
DH3	79	31.6	4	22	173.8ms	1.708	296.85	400
DH5	79	31.6	4	12	94.8ms	2.974	281.94	400

π/4DQPSK Mode

Dwell Time								
Mode	Number of Hopping Channel	Number of transmission in a period (Channel Number * 0.4sec)				Length of transmissions Time (ms)	Result (ms)	Limit (ms)
		Period (Sec)	Sweep Time (Sec)	Times in a sweep	Times in a period			
DH1	79	31.6	4	39	308.1ms	0.432	133.10	400
DH3	79	31.6	4	21	165.9ms	1.700	282.03	400
DH5	79	31.6	4	16	126.4ms	2.974	375.91	400

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GFSK Mode

Minimum Frequency Occupation Time					
Mode	Number of Hopping Channel	Number of transmission in a period of 4* Dwell * number of hopping channel	Length of transmissions Time (ms)	Result (ms)	Minimum Limit (ms)
DH1	79	2	0.432	0.864	0.432
DH3	79	3	1.708	5.124	1.708
DH5	79	3	2.974	8.922	2.974

π/4DQPSK Mode

Minimum Frequency Occupation Time					
Mode	Number of Hopping Channel	Number of transmission in a period of 4* Dwell * number of hopping channel	Length of transmissions Time (ms)	Result (ms)	Minimum Limit (ms)
DH1	79	2	0.432	0.864	0.432
DH3	79	3	1.700	5.100	1.700
DH5	79	3	2.974	8.922	2.974

Note: Note: GFSK and π/4DQPSK Mode was the worse case

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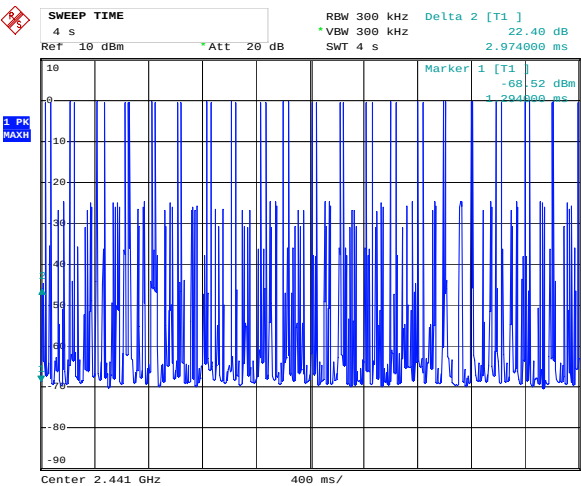
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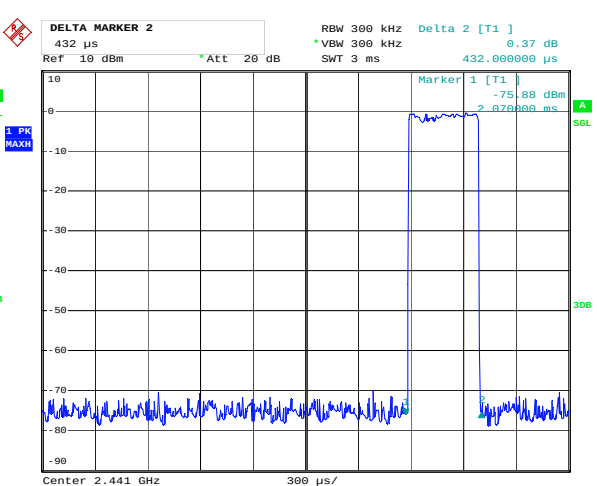


GFSK Mode

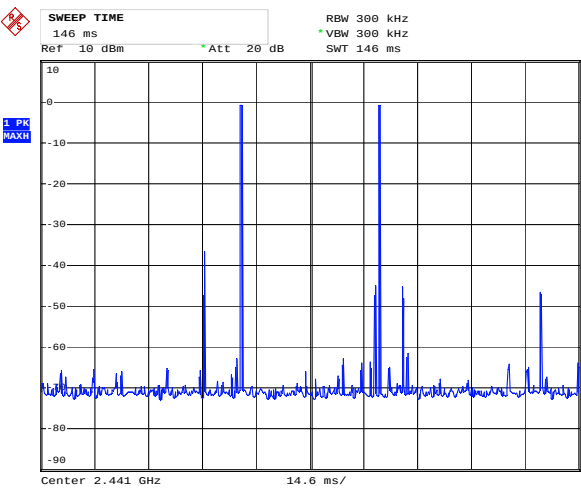
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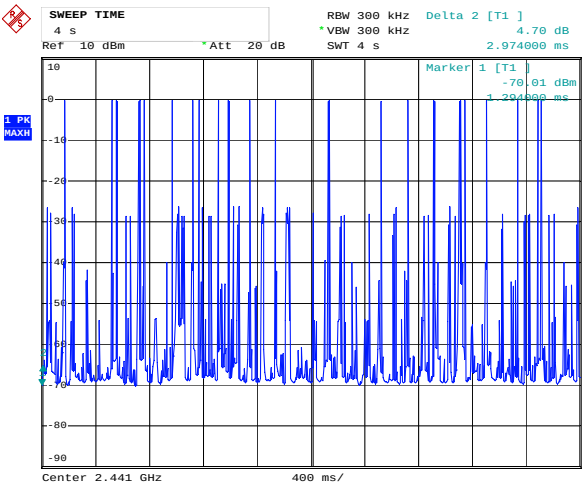


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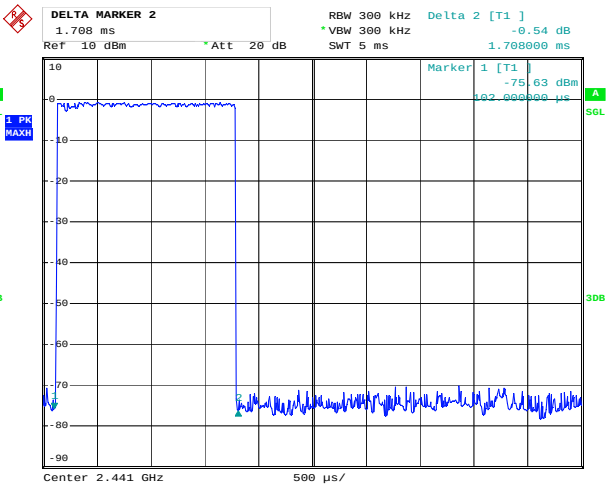
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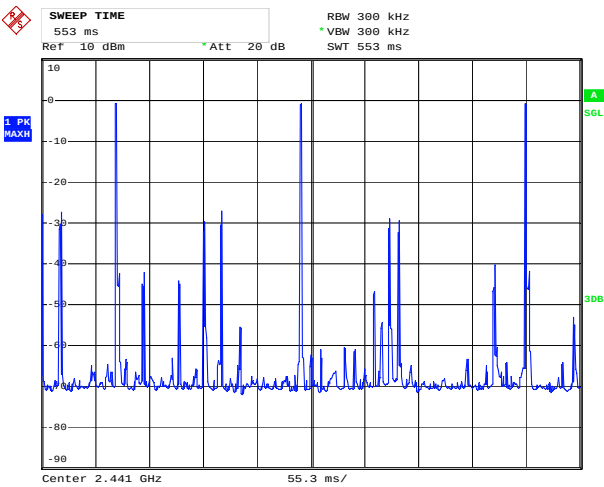
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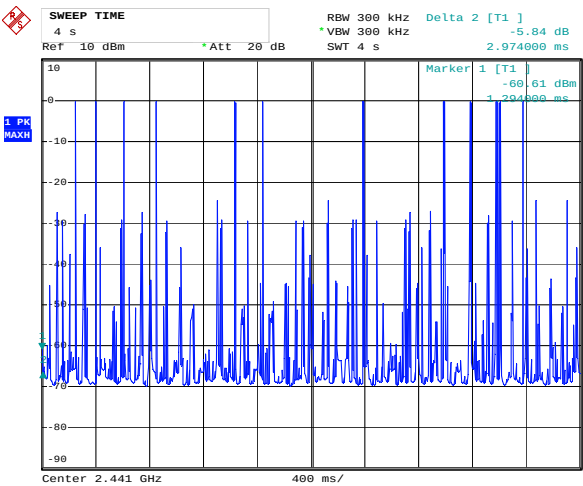


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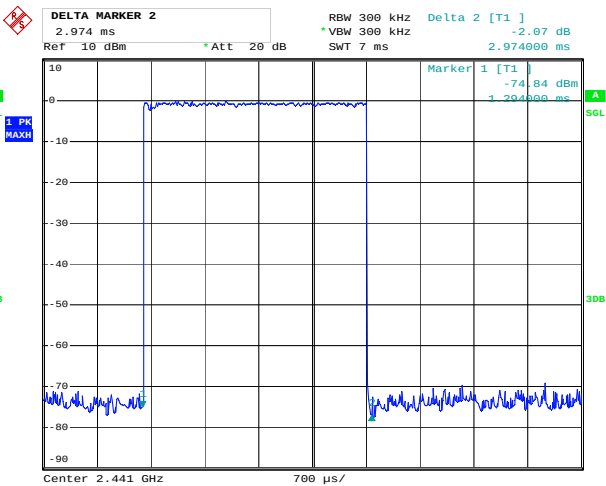
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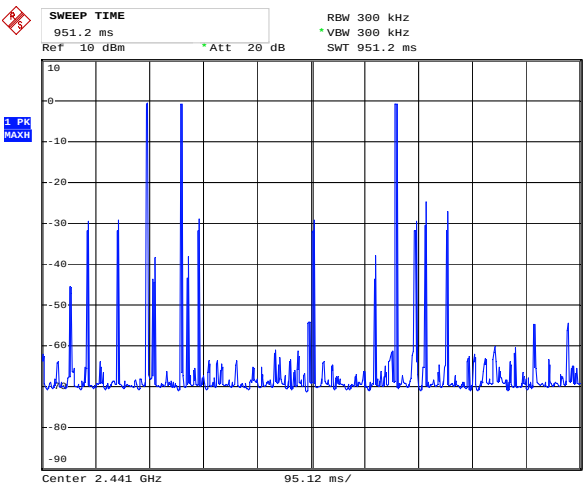
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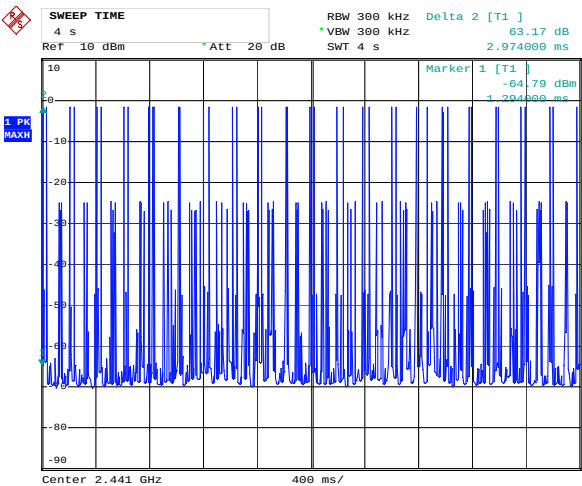
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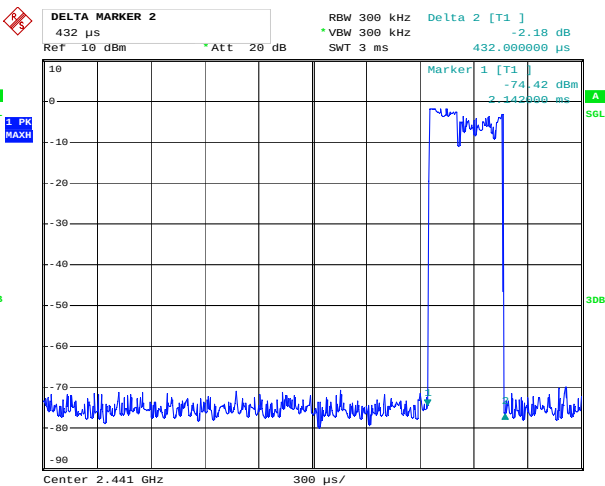


Π/4DQPSK Mode

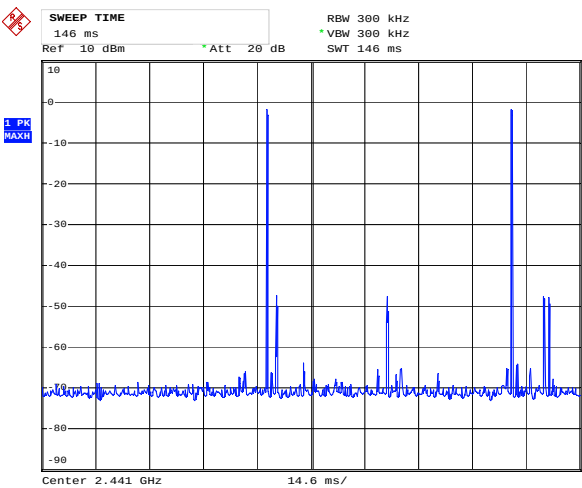
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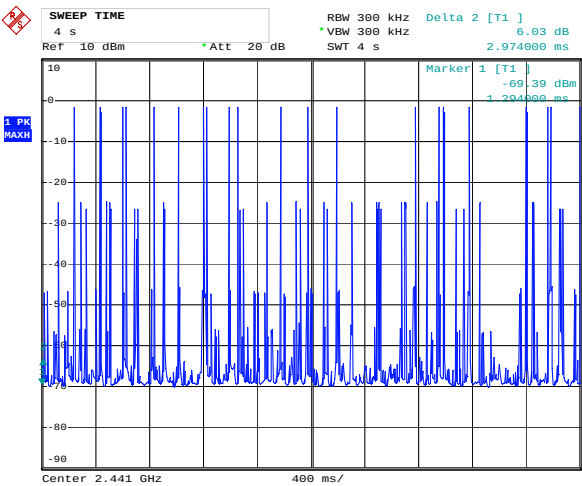


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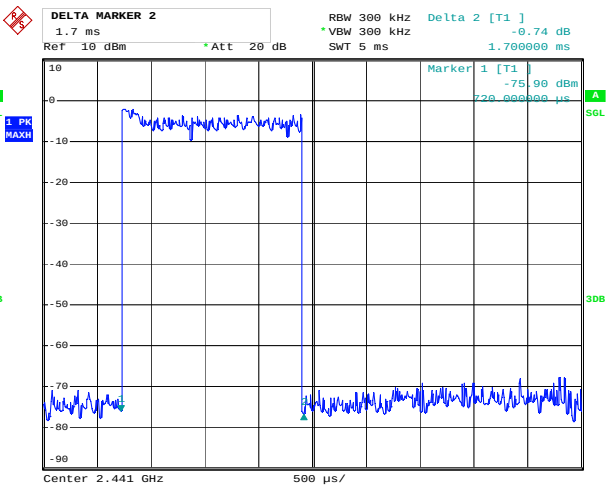
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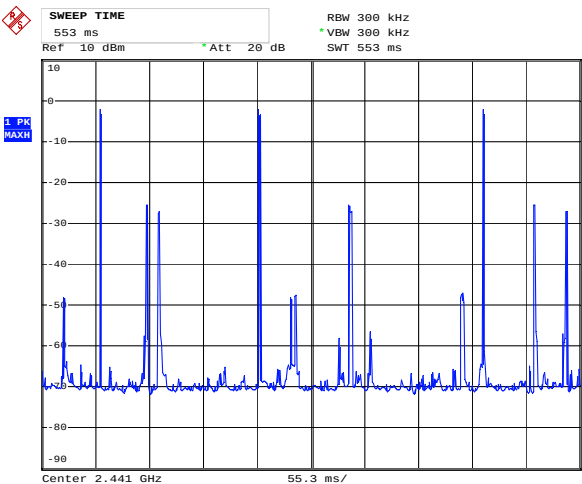
DH3



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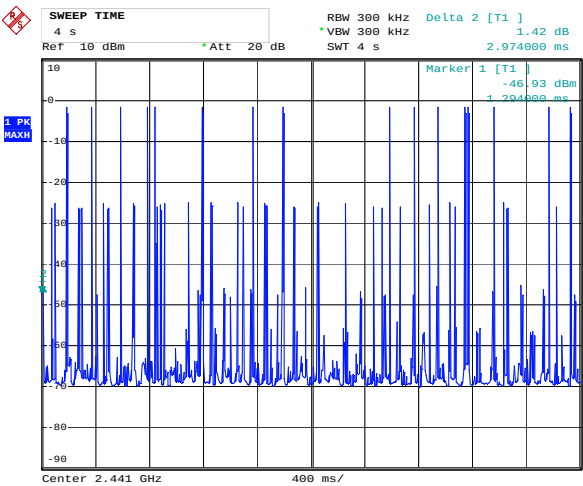


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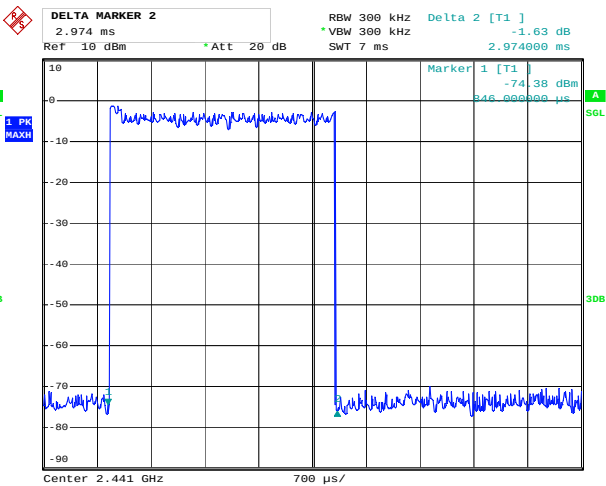
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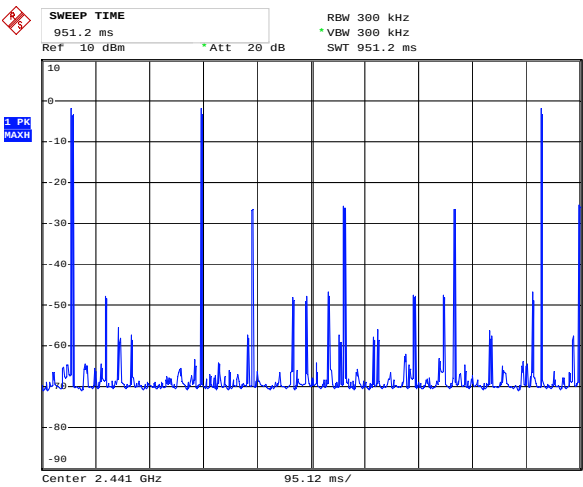
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Date: 29.SEP.2014 15:16:38



Date: 29.SEP.2014 12:59:32

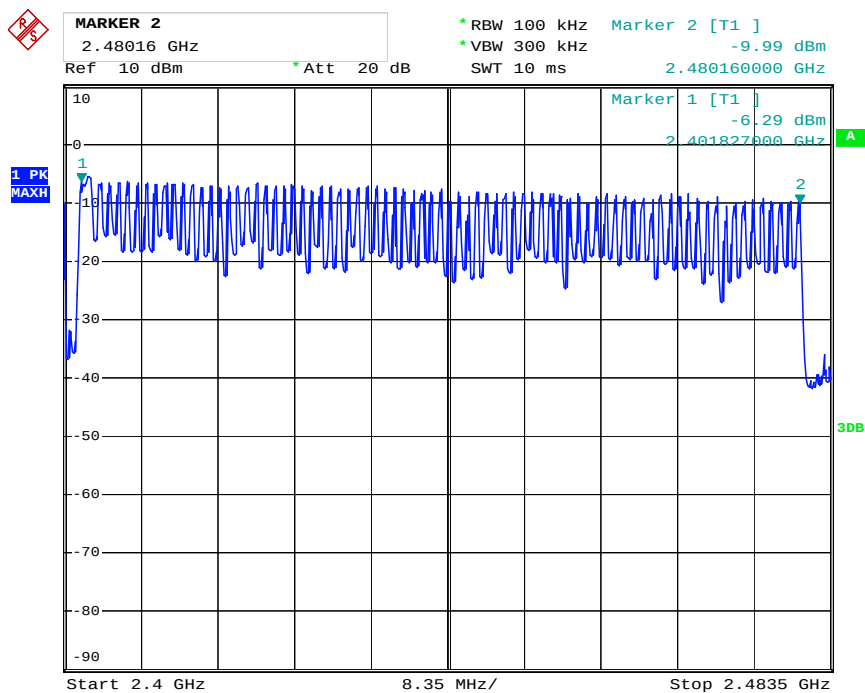
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Hopping sequence

GFSK

EUT	Shower Bluetooth Speaker	Model	BTS-51
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Operating Frequency	Number of hopping channels	Limit	Pass/ Fail
2402-2480MHz	79	≥ 15	Pass



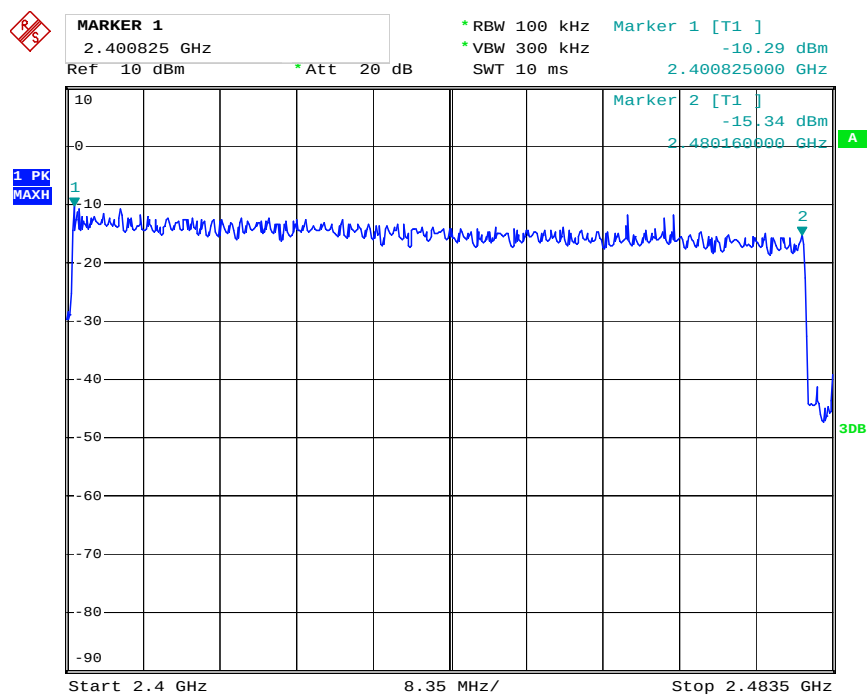
Date: 17.SEP.2014 16:17:57

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π/4DQPSK Mode

EUT	Shower Bluetooth Speaker	Model	BTS-51
Mode	Hopping On	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Operating Frequency	Number of hopping channels	Limit	Pass/ Fail
2402-2480MHz	79	≥ 15	Pass



Date: 17.SEP.2014 16:22:02

Note: Note: GFSK and π/4DQPSK Mode was the worse case

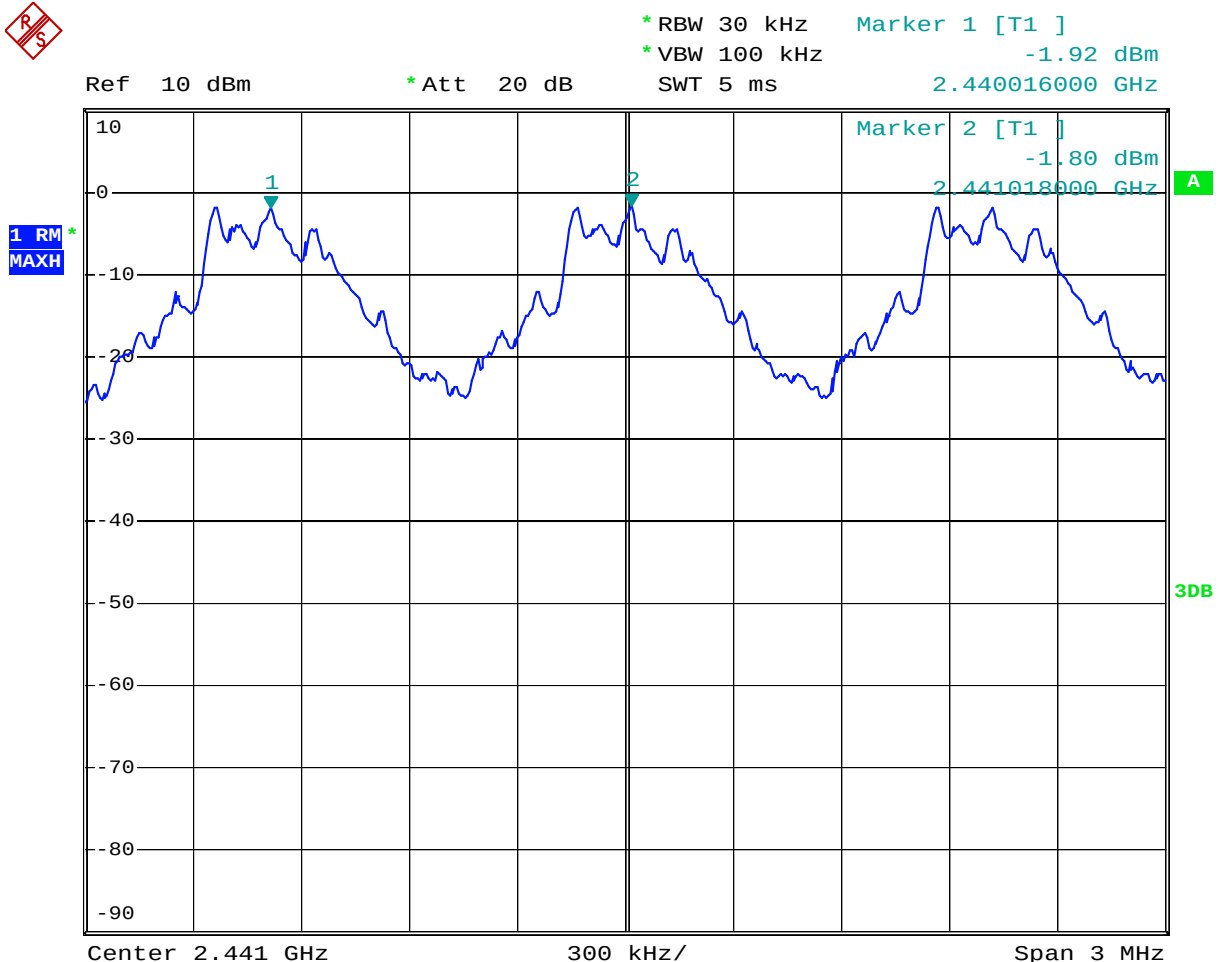
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Clause 4.3.1.4 Hopping Frequency Separation

Test method according to Clause 5.3.5.2.1.2

GFSK Mode

EUT	Shower Bluetooth Speaker		Model	BTS-51
Mode	Hopping On		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Carrier Frequency Separation	Limit	Pass/ Fail
Middle	2441	1.002MHz	$\geq 100\text{kHz}$	Pass



Date: 29.SEP.2014 15:59:14

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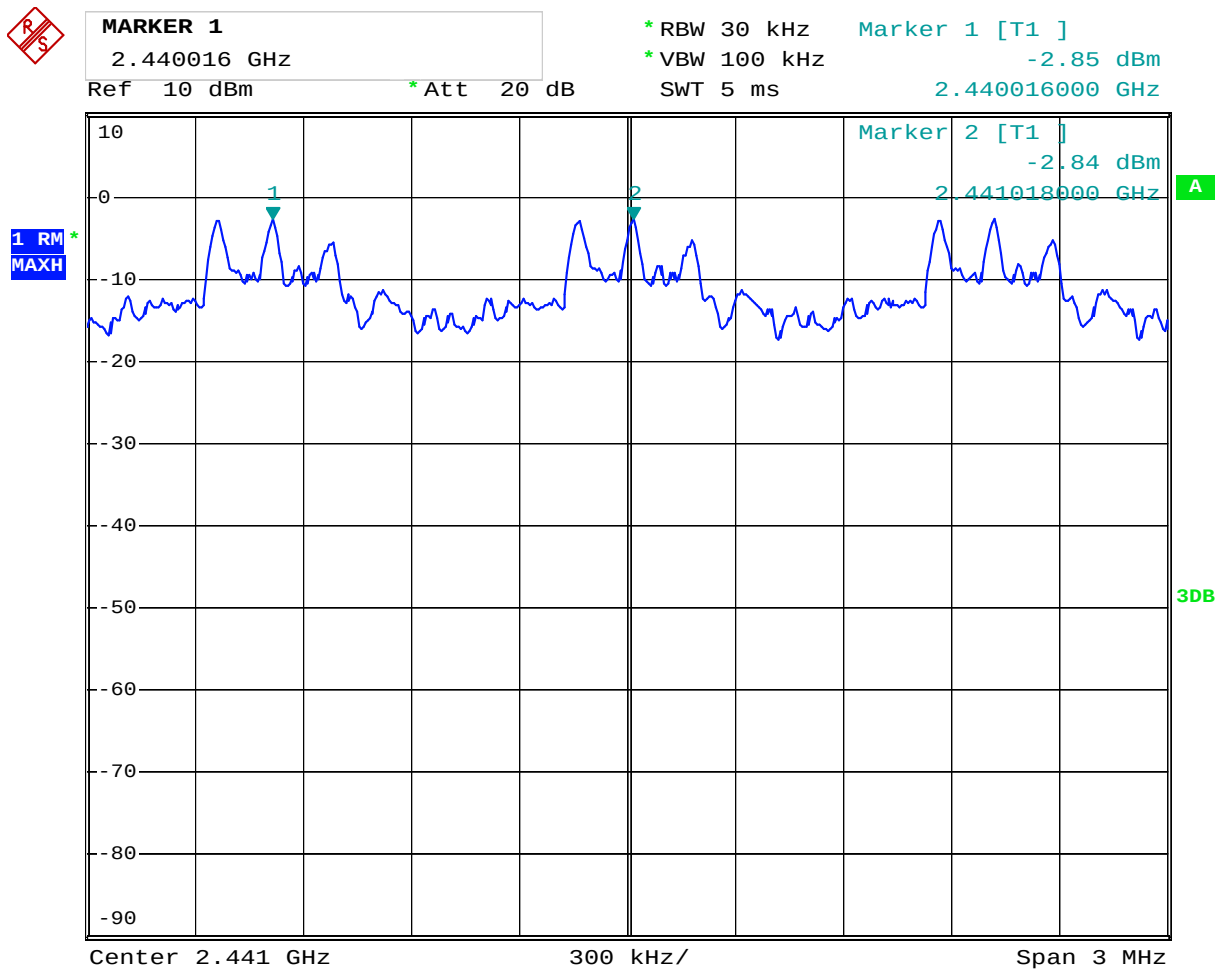
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π/4DQPSK Mode

EUT	Shower Bluetooth Speaker		Model	BTS-51
Mode	Hopping On		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Carrier Frequency Separation	Limit	Pass/ Fail
Middle	2441	1.002MHz	≥100kHz	Pass



Date: 29.SEP.2014 15:53:59

Note: Note: GFSK and π/4DQPSK Mode was the worse case

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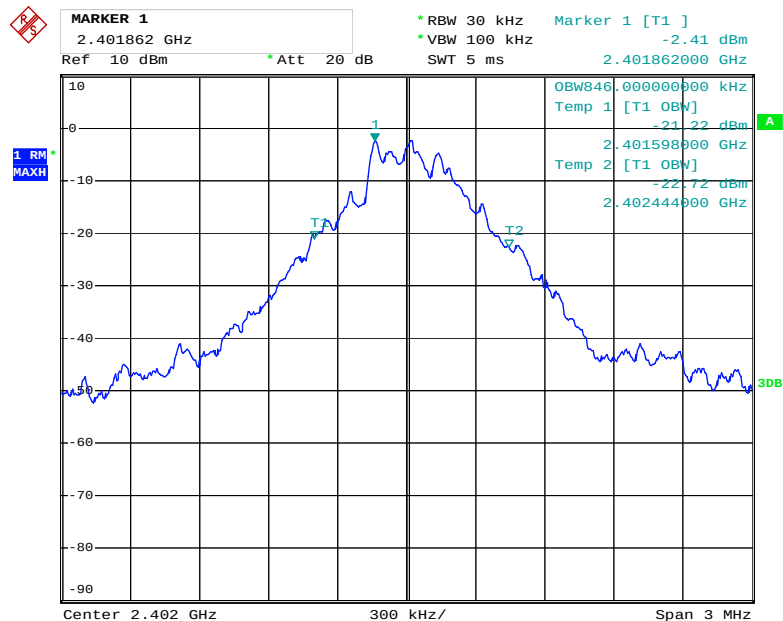
Clause 4.3.1.7 Occupied Channel Bandwidth

Test method according to Clause 5.3.8.2.1

GFSK Mode

EUT	Shower Bluetooth Speaker		Model	BTS-51
Mode	Hopping On		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	99% Channel Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	846	--	Pass
Middle	2441	834	--	Pass
High	2480	834	--	Pass

Low Channel

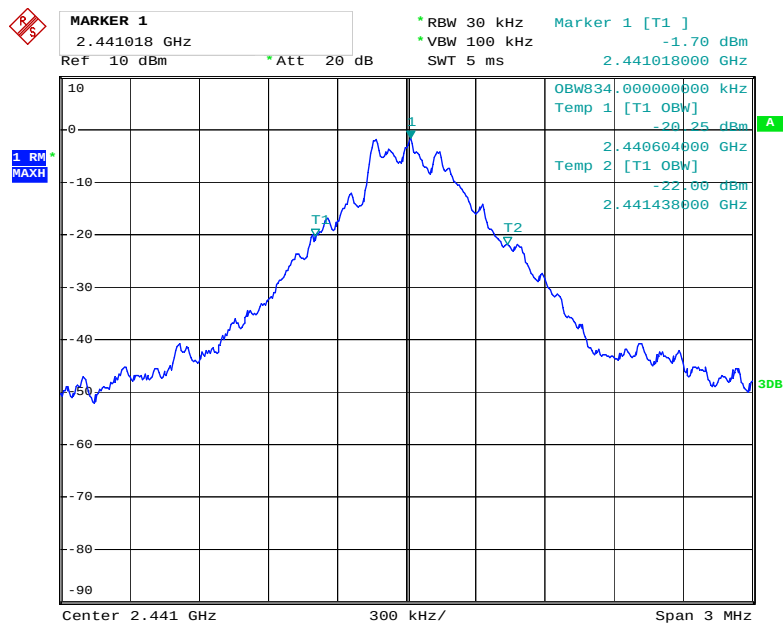


Date: 29.SEP.2014 16:32:38

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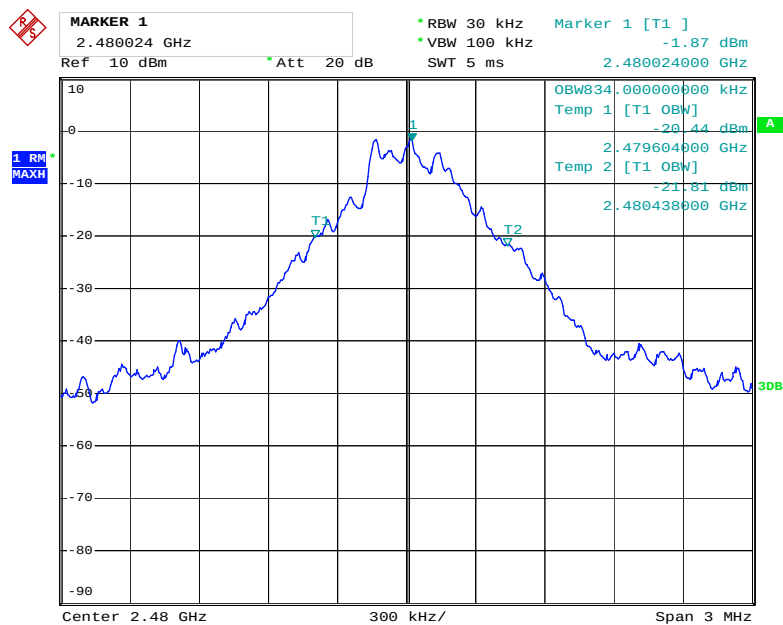


Middle Channel



Date: 29.SEP.2014 16:38:22

High Channel



Date: 29.SEP.2014 16:40:19

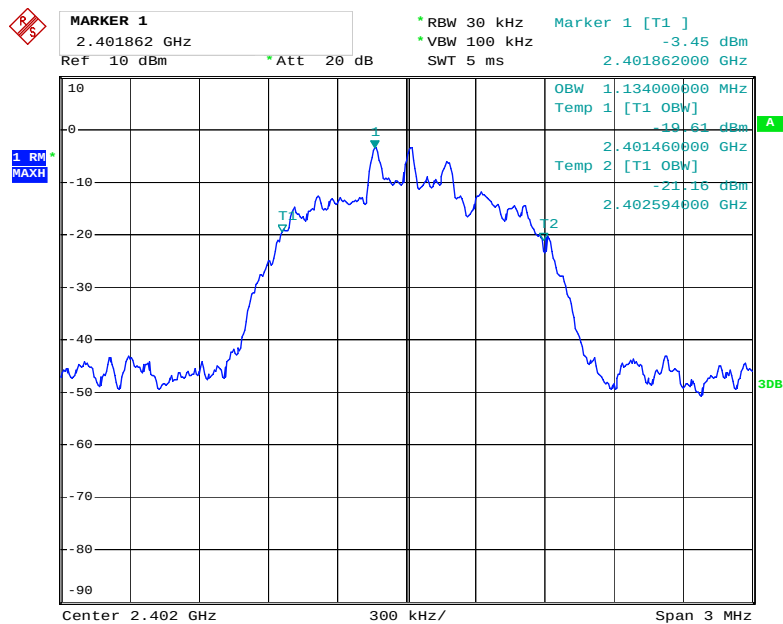
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π/4DQPSK Mode

EUT	Shower Bluetooth Speaker		Model	BTS-51
Mode	Hopping On		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	99% Channel Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1.134	--	Pass
Middle	2441	1.134	--	Pass
High	2480	1.134	--	Pass

Low Channel

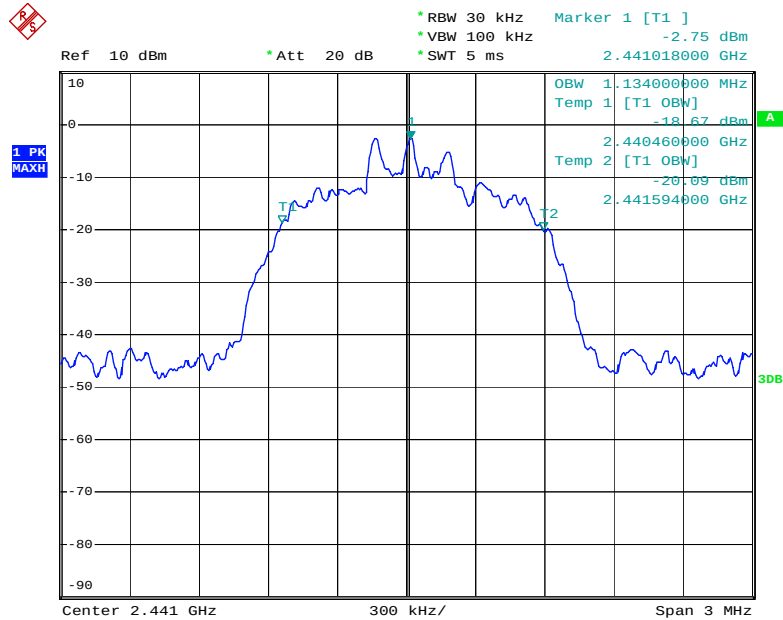


Date: 29.SEP.2014 16:52:25

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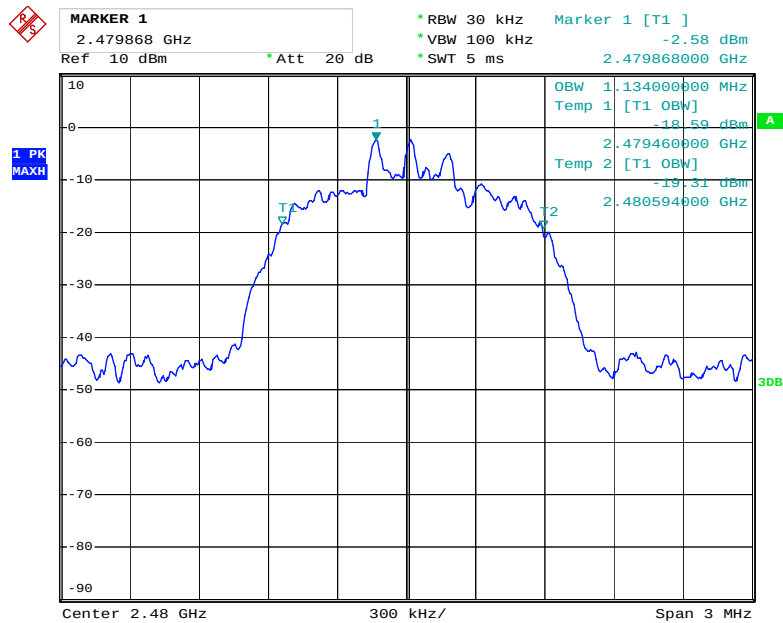


Middle Channel



Date: 29.SEP.2014 16:57:12

High Channel



Date: 29.SEP.2014 16:58:09

Note: Note: GFSK and $\pi/4$ QPSK Mode was the worse case

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Clause 4.3.1.8 Transmitter unwanted emissions in the out-of-band domain

Test method according to Clause 5.3.9.2.1

EUT	Shower Bluetooth Speaker	Model	BTS-51
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH

GFSK Mode

Channel Frequency		2402MHz		2480MHz	
Test Condition		OOB Emission (MHz)		OOB Emission (MHz)	
		2399-2400MHz	2398-2399	2483.5-2484.5	2484.5-2485.5
		Max. Power (dBm/MHz)	Max. Power (dBm/MHz)	Max. Power (dBm/MHz)	Max. Power (dBm/MHz)
T _{nor} 25℃	V _{nor} (V)	-43.52	-50.36	-45.67	-51.29
T _{min} -10℃	V _{min} (V)	-43.33	-50.22	-45.79	-51.03
	V _{min} (V)	-43.18	-50.09	-45.23	-50.89
T _{max} 50℃	V _{max} (V)	-43.67	-50.18	-45.62	-51.58
	V _{max} (V)	-43.93	-50.32	-45.89	-51.58
Limit (dBm)		-10	-20	-10	-20
Pass/Fail		Pass	Pass	Pass	Pass

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π/4DQPSK Mode

Channel Frequency		2402MHz		2480MHz	
Test Condition		OOB Emission (MHz)		OOB Emission (MHz)	
		2399-2400MHz	2398-2399	2483.5-2484.5	2484.5-2485.5
		Max. Power (dBm/MHz)	Max. Power (dBm/MHz)	Max. Power (dBm/MHz)	Max. Power (dBm/MHz)
T _{nor} 25℃	V _{nor} (V)	-48.65	-52.76	-49.29	-54.59
T _{min} -10℃	V _{min} (V)	-48.12	-52.39	-49.88	-54.64
	V _{min} (V)	-48.79	-52.71	-49.56	-54.24
T _{max} 50℃	V _{max} (V)	-48.83	-52.66	-49.37	-54.60
	V _{max} (V)	-48.77	-52.59	-49.84	-54.75
Limit (dBm)		-10	-20	-10	-20
Pass/Fail		Pass	Pass	Pass	Pass

Note: Note: GFSK and π/4DQPSK Mode was the worse case

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Clause 4.3.1.9 Transmitter unwanted emissions in the spurious domain

(Radiated)

Transmitter Operating

Note:

1. Measurements were done on low & high channels, but depicting the worst case are submitted in the report.
2. The spurious emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges.
3. The test frequency range is from 30M-12.75G and please see clause 5.3.10.2.2 of EN 300 328 for the test method.

Lowest Frequency (2402MHz)			Highest Frequency (2480MHz)		
f(MHz)	Band-Width (kHz)	Level (dBm)	f(MHz)	Band-Width (kHz)	Level (dBm)
NF	--	--	NF	--	--
NF	--	--	NF	--	--
Measurement Uncertainty		± 6dB			

Limits Clause 4.3.1.9.2

Table 1: Transmitter limits for spurious emissions

Frequency range	Maximum power, e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz)	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 862 MHz	-54 dBm	100 kHz
862 MHz to 1 GHz	-36 dBm	100 kHz
1 GHz to 12,75 GHz	-30 dBm	1 MHz

Note: GFSK was the worse case

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Clause 4.3.1.10 Receiver Spurious Emissions (Radiated)

Note:

1. Measurements were done on low & high channels, but depicting the worst case are submitted in the report.
2. The receiver spurious emissions were done with different settings, using the relevant and pre-amplifiers for the relevant frequency ranges.
3. The test frequency range is from 30M-12.75G and please see clause 5.3.11.2.2 of EN 300 328 for the test method.

Low Channel			High Channel		
f(MHz)	Band-Width (kHz)	Level (dBm)	f(MHz)	Band-Width (kHz)	Level (dBm)
NF	--	--	NF	--	--
NF	--	--	NF	--	-
Measurement Uncertainty		$\pm 6\text{dB}$			

Limits Clause 4.3.1.10.2

Table 2: Spurious emission limits for receivers

Frequency range	Maximum power e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz)	Measurement bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 12,75 GHz	-47 dBm	1 MHz

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3.0 Product Labelling

CE Mark label specification

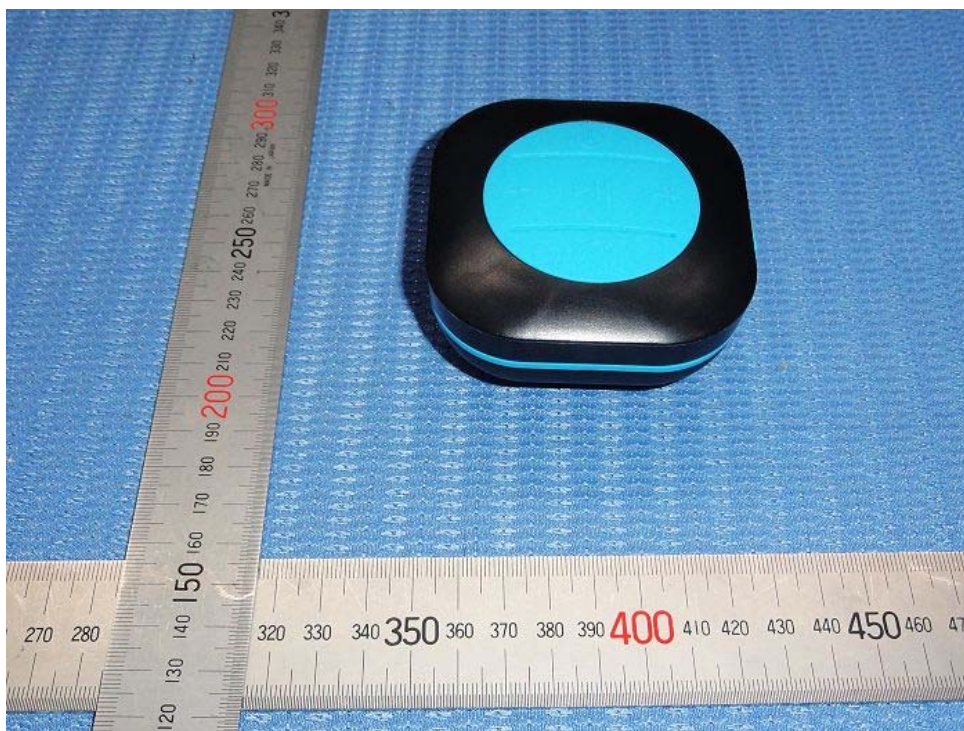
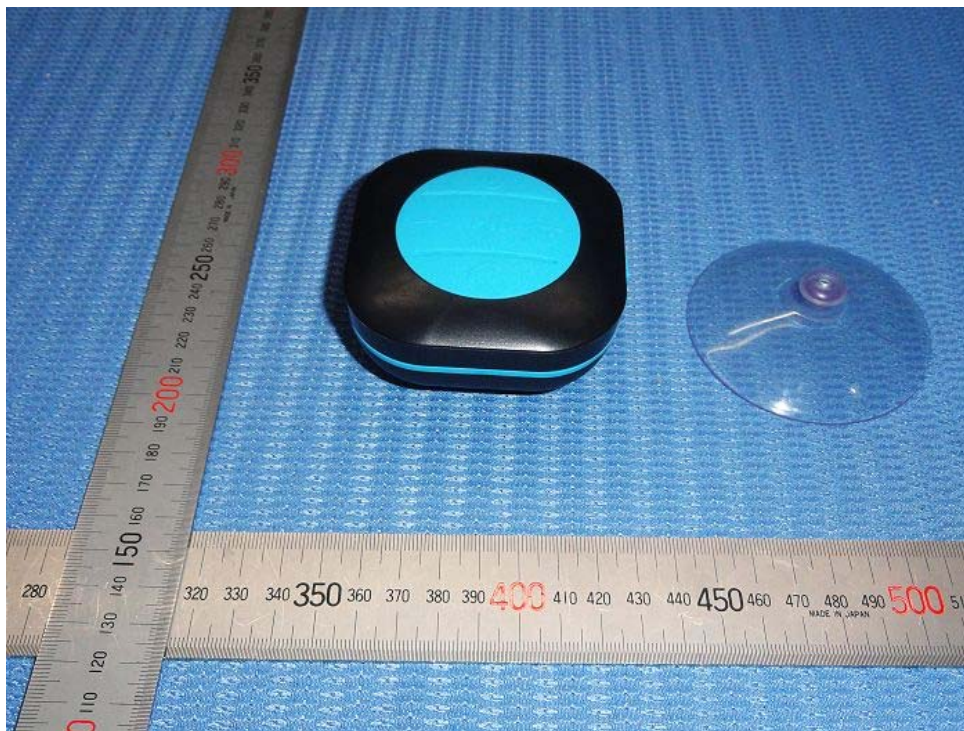
Text of the mark is black or white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing and shall be affixed at a conspicuous location on the EUT or silk-screened onto the EUT.



Mark Location: Rear enclosure

4.0 Photographs – EUT

Outside view

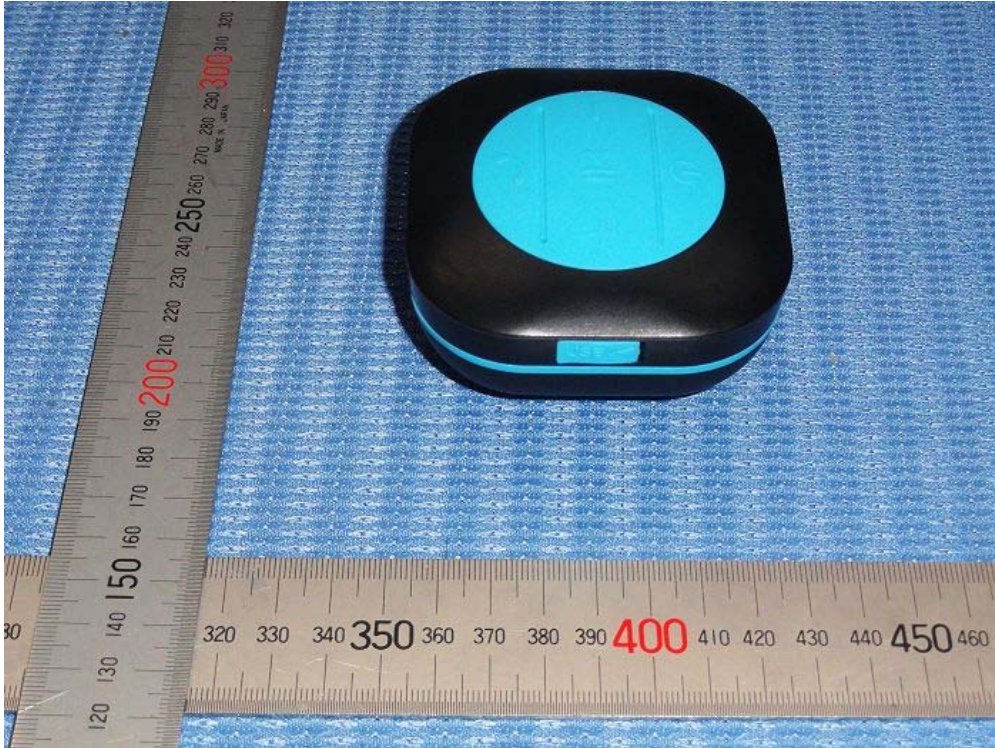


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Outside view

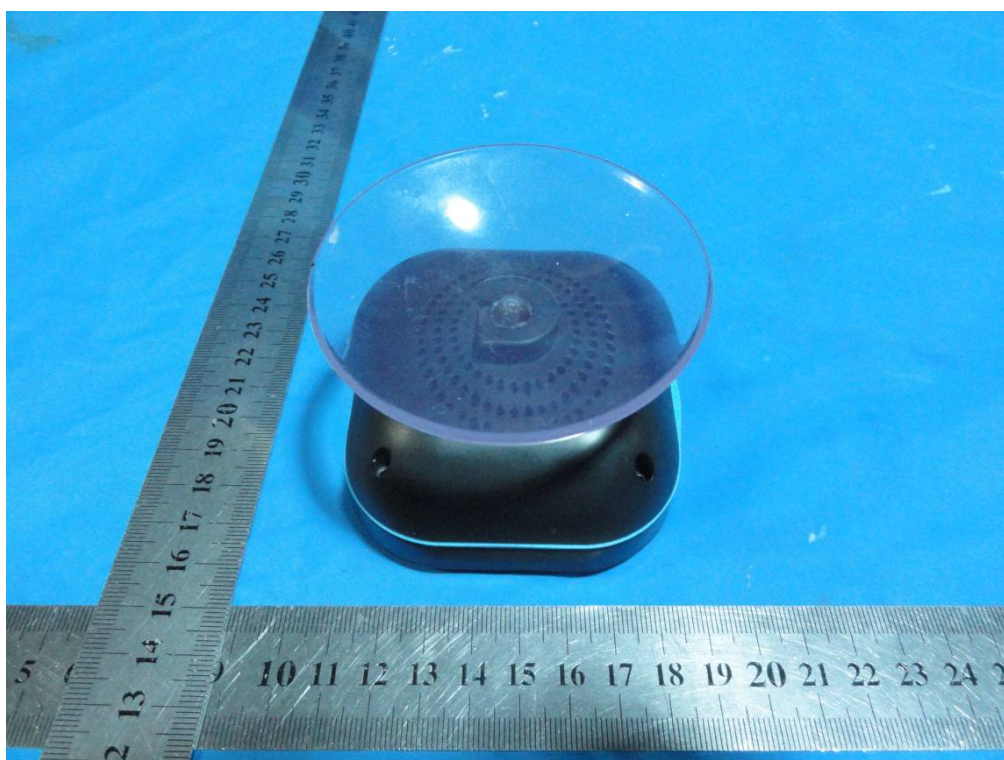
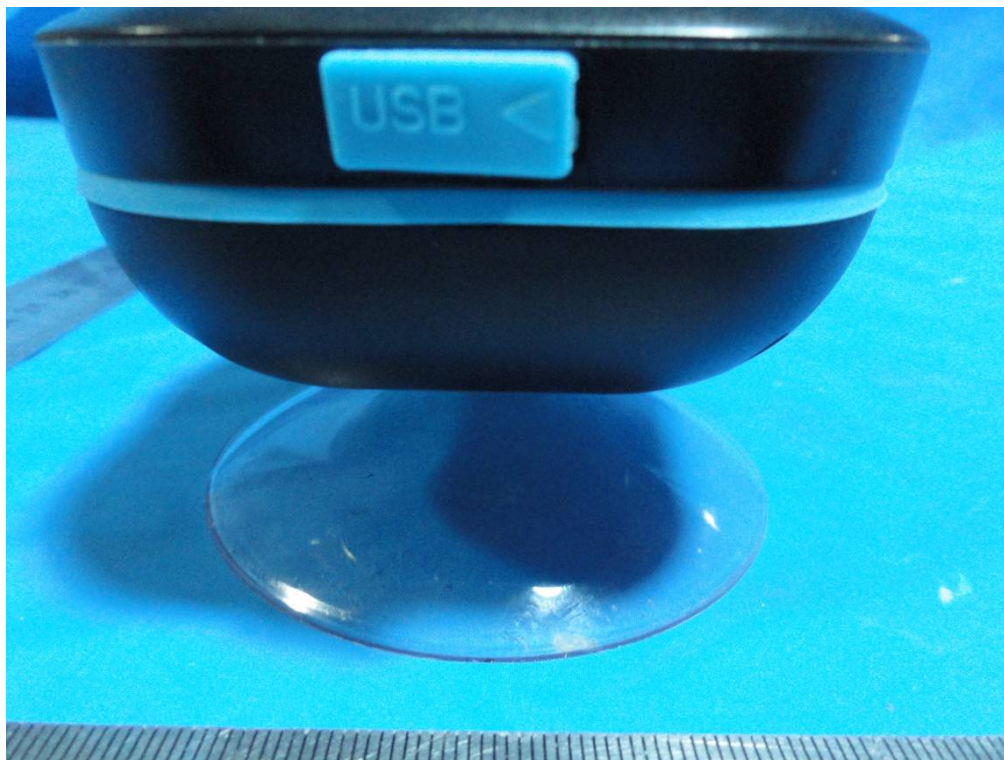


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Outside view



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Inside view

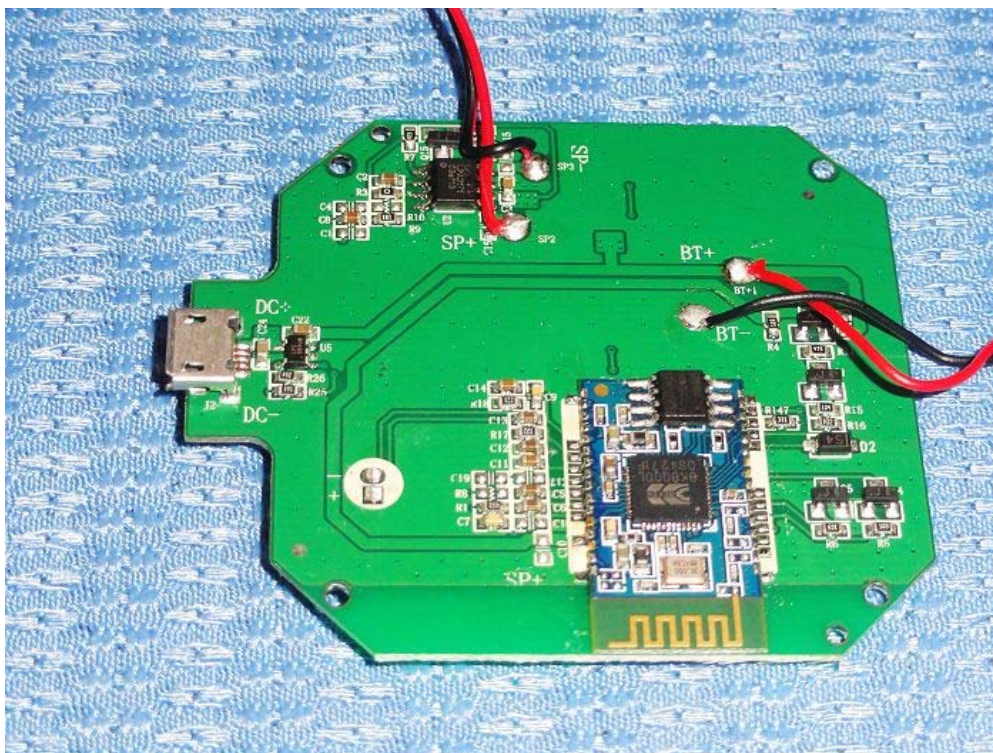
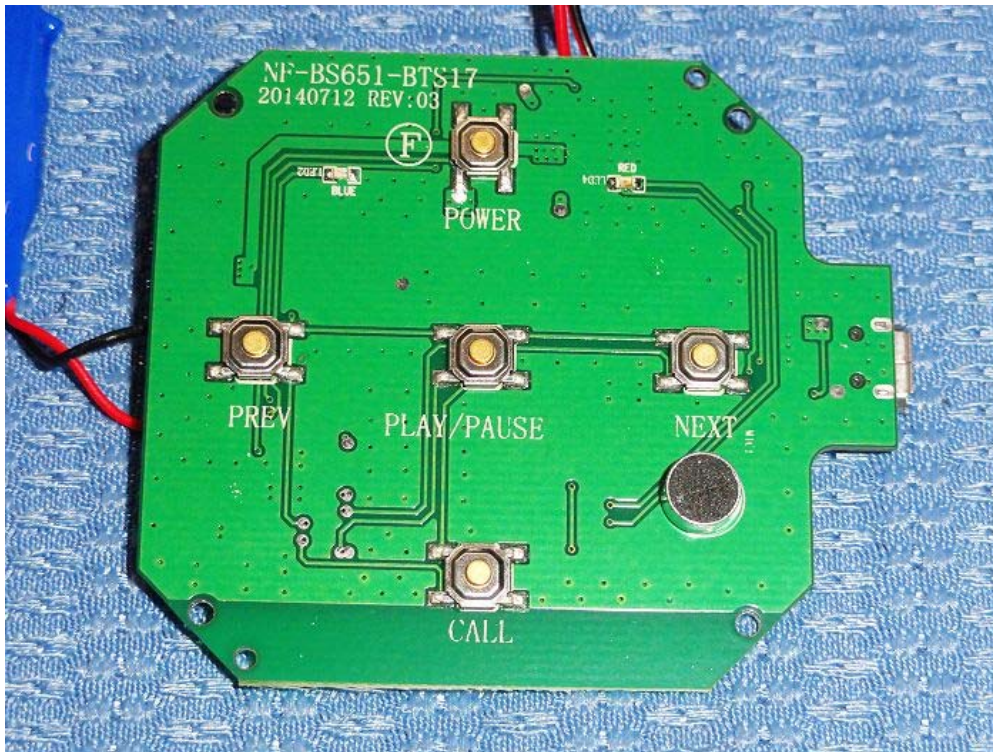


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Inside view

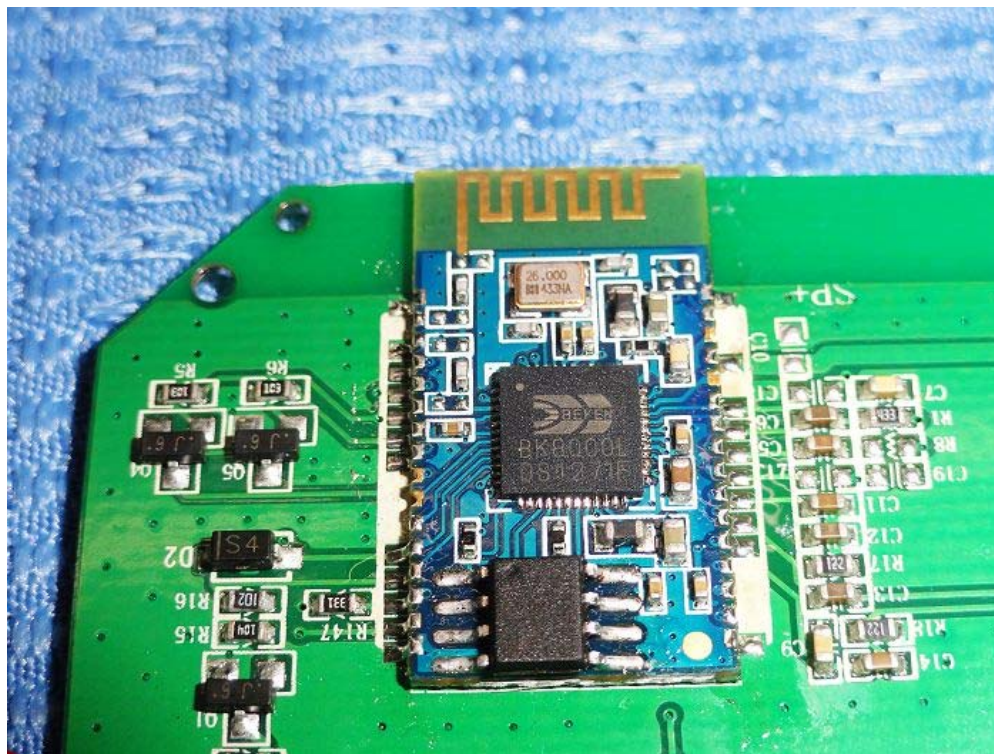


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Inside view



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6.0	Test Equipments				
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2014-08-21	2015-08-20
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2014-08-21	2015-08-20
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2014-08-21	2015-08-20
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2014-08-21	2015-08-20
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2014-08-21	2015-08-20
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2014-08-21	2015-08-20
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2014-08-21	2015-08-20
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2014-08-21	2015-08-20
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2014-08-21	2015-08-20
System Controller	CT	SC100	-	2014-08-21	2015-08-20
Printer	EPSON	PHOTO EX3	CFNH234850	2014-08-21	2015-08-20
FM-AM Signal Generator	JUNGJIN	SG-150M	389911177	2014-08-21	2015-08-20
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2014-08-21	2015-08-20
Computer	IBM	8434	1S8434KCE99BLXLO*	-	-
Oscillator	KENWOOD	AG-203D	3070002	2014-08-21	2015-08-20
Spectrum Analyzer	HAMEG	HM5012	-	-	-
Power Supply	LW	APS1502	-	-	-
5K VA AC Power Source	California Instruments	5001iX	56060	2014-08-21	2015-08-20
CDN	EM TEST	CDN M2/M3	-	2014-08-21	2015-08-20
Attenuation	EM TEST	ATT6/75	-	2014-08-21	2015-08-20
Resistance	EM TEST	R100	-	2014-08-21	2015-08-20

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Electromagnetic Injection Clamp	LITTHI	EM101	35708	2014-08-21	2015-08-20
Inductive Components	EM TEST	MC2630	-	2014-08-21	2015-08-20
Antenna	EM TEST	MS100	-	2014-08-21	2015-08-20
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2014-08-21	2015-08-20
Power Amplifier	AR	150W1000	300999	2014-08-21	2015-08-20
Field probe	Holaday	HI-6005	105152	2014-08-21	2015-08-20
Bilog Antenna	Chase	CBL6111C	2576	2014-08-21	2015-08-20
Loop Antenna	EMCO	6502	00042960	2014-08-21	2015-08-20
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2014-08-21	2015-08-20
3m OATS	--	--	N/A	2014-08-21	2015-08-20
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2014-08-21	2015-08-20
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2014-08-21	2015-08-20
Power meter	Anritsu	ML2487A	6K00003613	2014-08-21	2015-08-20
Power sensor	Anritsu	MA2491A	32263	2014-08-21	2015-08-20
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2014-08-21	2015-08-20
LISN	AFJ	LS16C	10010947251	2014-08-21	2015-08-20
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2014-08-21	2015-08-20
9*6*6 Anechoic	--	--	N/A	2014-08-21	2015-08-20

End of the report

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