

Prüfbericht - Nr.: 17022076 001 <i>Test Report No.:</i>			Seite 1 von 50 <i>Page 1 of 50</i>		
Auftraggeber: <i>Client:</i>			Uni-Art Precise Products Ltd. 11-12/F. Yue Xiu Industrial Building, 87 Hung To Road, Kwun Tong, Kowloon, Hong Kong		
Gegenstand der Prüfung: Bluetooth Stereo Transmitter <i>Test item:</i>					
Bezeichnung: <i>Identification:</i>		BH501		Serien-Nr.: <i>Serial No.:</i>	
Wareneingangs-Nr.: <i>Receipt No.:</i>		163082035		Eingangsdatum: <i>Date of receipt:</i>	
Prüfort: <i>Testing location:</i>		TÜV Rheinland (Guangdong) Ltd. EMC Laboratory Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou, P.R. China FCC Registration No.: 833845 Test site Industry Canada No.: 2932C-1			
Prüfgrundlage: <i>Test specification:</i>		FCC CFR47 Part 15: Subpart C Section 15.247 FCC CFR47 Part 15: Subpart C Section 15.207 FCC CFR47 Part 15: Subpart C Section 15.209 FCC CFR47 Part 15: Subpart B Section 15.107 FCC CFR47 Part 15: Subpart B Section 15.109			
Prüfergebnis: <i>Test Result:</i>		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>			
Prüflaboratorium: <i>Testing Laboratory:</i>		TÜV Rheinland (Shenzhen) Co., Ltd.			
geprüft/ tested by:			kontrolliert/ reviewed by:		
					
2011-09-29 Winnie Hou/Project Manager			2011-10-10 Shawn Peng/Technical Certifier		
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>
Sonstiges/ Other Aspects:					
Abkürzungen:			Abbreviations:		
P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar NIT = nicht getestet			P(ass) = passed F(ail) = failed N/A = not applicable NIT = not tested		
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>					

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Passed

5.1.2 PEAK OUTPUT POWER

RESULT: Passed

5.1.3 20dB BANDWIDTH

RESULT: Passed

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHZ BANDWIDTH

RESULT: Passed

5.1.5 SPURIOUS EMISSION

RESULT: Passed

5.1.6 FREQUENCY SEPARATION

RESULT: Passed

5.1.7 NUMBER OF HOPPING FREQUENCY

RESULT: Passed

5.1.8 TIME OF OCCUPANCY

RESULT: Passed

5.1.9 CONDUCTED EMISSIONS

RESULT: Passed

5.1.10 RADIATED EMISSIONS

RESULT: Passed

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Passed

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test Result

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd.
EMC Laboratory

Guangzhou Auto Market,
Yuan Gang Section of Guangshan Road,
Guangzhou, P.R. China

FCC Registration No.: 833845

Test site Industry Canada No.: 2932C-1

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Spurious emission and Radiated emission				
EMI Test Receiver	Rohde & Schwarz	ESCI-3	100216	2012-03-16
Spectrum Analyzer	Rohde & Schwarz	FSP30	100286	2012-03-16
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100111	2012-03-16
Trilog-Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	209	2012-08-21
Double-Ridged Waveguide Horn Antenna	Rohde & Schwarz	HF906	100385	2012-08-24
Pre-amplifier	MITEQ	AFS42-00101800-25-S-42	1101599	2012-07-31
Standard Gain Horn Antenna	EMCO	3160-09	21642	2014-06-26
Pre-amplifier	MITEQ	AFS33-18002650-30-8P-44	1108282	2012-03-16
3m Anechoic Chamber	Albatross Project GmbH	N/A	N/A	2012-04-16
Radio Test Suite				
Spectrum Analyzer	R&S	ESCI	100178	2012-09-27
Conducted Emission				
EMI Test Receiver	Rohde & Schwarz	ESCS30	100316	2012-03-16
Pulse Limiter	Rohde & Schwarz	11947A	100701	2012-03-16
Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100114	2012-03-16

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Guangdong) Ltd. test facility located at Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is Bluetooth stereo transmitter.

The *Bluetooth*® Stereo Transmitter and Receiver combine the stylish design and reliable technology in the ideal minimized units. This tiny Round-shaped *Bluetooth*® Transmitter can be connected to any music player such as a CD player, MP3 player iPod, TV, HiFi and even handheld game console through 3.5mm stereo plug for stereo streaming. The Square-shaped Receiver, which is designed in a cubic shape, serves to receive audio signals from the Transmitter, or to receive audio signals from your own *Bluetooth*® music player.

The EUT operates at 2.4GHz ISM frequency band.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	Bluetooth Stereo Transmitter
Type Designation:	BH501
FCC ID	MVABH501-001T

Table 3: Technical Specification of EUT

Technical Specification	Value
Operating Frequency band	2402 – 2480 MHz
Channel separation	1MHz
Extreme Temperature Range	-20°C to +55°C
Operation Voltage	DC 3.7V (via Lithium Battery)
Modulation	GFSK, 8PSK, $\pi / 4$ DQPSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	2dBi
RF Output Power	0.00362W (5.59dBm)

Table 4: Frequency hopping information

Technical Specification	Description
Hopping Range	Hereby we declare that the maximum frequency of this device is: 2402-2480MHz. This is according the Bluetooth Core Specification V2.1+EDR for devices which will be operated in the USA. This was checked during the Bluetooth Qualification tests (Test Case: TRM/CA/04-E).
Hopping Sequence	Example of a 79 hopping sequence in data mode: 33,04,21,44,23,42,53,46,55,48,40,59,72,29,76,31,08,73,07,75,09,45,60,39,58,13,47,11,77,52,35,50,65,54,67,56,69,62,71,64, 7,25,27,66,57,70,74,61,78,63,10,41,05,43,15,44,64,68,02,70,06,01,51,03,55,05,03,66,53,49,36,47,
Receiver input bandwidth	The input bandwidth of the receiver is 1MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings. Repeating of a packer has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Low channel (2402MHz)
 - 2. Middle channel (2441MHz)
 - 3. High channel (2480MHz)
- B. Receiving
- C. Charging
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Technical Description
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested with following accessories

Description	Manufacturer	Type	Rating
AC/DC Adapter	Dongguan Yinli Electronics Co., Ltd.	YLS0061-T050030	Input: AC100-240V 50/60Hz 0.3A Output: DC5V 300mA

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

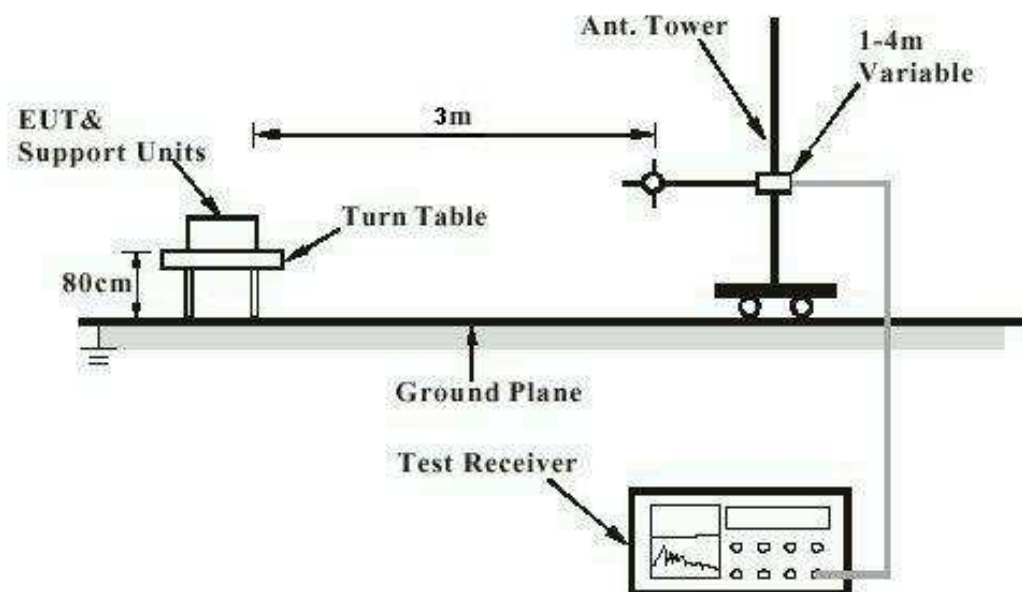


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

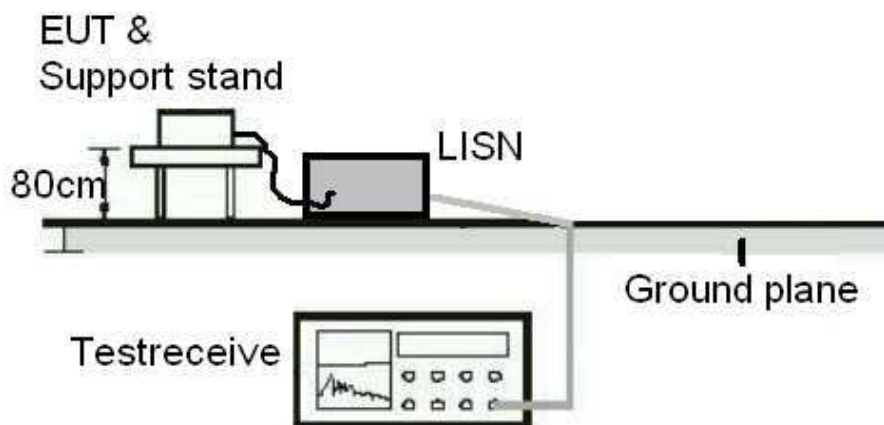
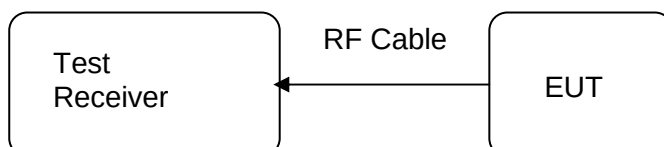


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test date	:	2011-09-19
Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT photo for details.

5.1.2 Peak Output Power

RESULT:
Passed

Test date : 2011-09-19
 Test standard : FCC Part 15.247(b)(1)
 Basic standard : ANSI C63.4: 2003
 Limit : 1 Watt
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 20°C
 Relative humidity : 50%
 Atmospheric pressure : 101 kPa

Table 5: Test result of Peak Output Power, GFSK modulation

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	5.59	0.00362	1
Middle Channel	2441	4.81	0.00303	1
High Channel	2480	4.15	0.00260	1

Remark: RBW is 1MHz

Table 6: Test result of Peak Output Power, 8DPSK modulation

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	5.04	0.00319	1
Middle Channel	2441	4.40	0.00275	1
High Channel	2480	3.70	0.00234	1

Remark: RBW is 3MHz

5.1.3 20dB Bandwidth

RESULT:
Passed

Date of testing : 2011-08-09
 Test standard : FCC Part 15.247(a)(1)
 Basic standard : ANSI C63.4: 2003
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 20°C
 Relative humidity : 50%
 Atmospheric pressure : 101 kPa

Table 7: Test result of 20dB Bandwidth, GFSK modulation

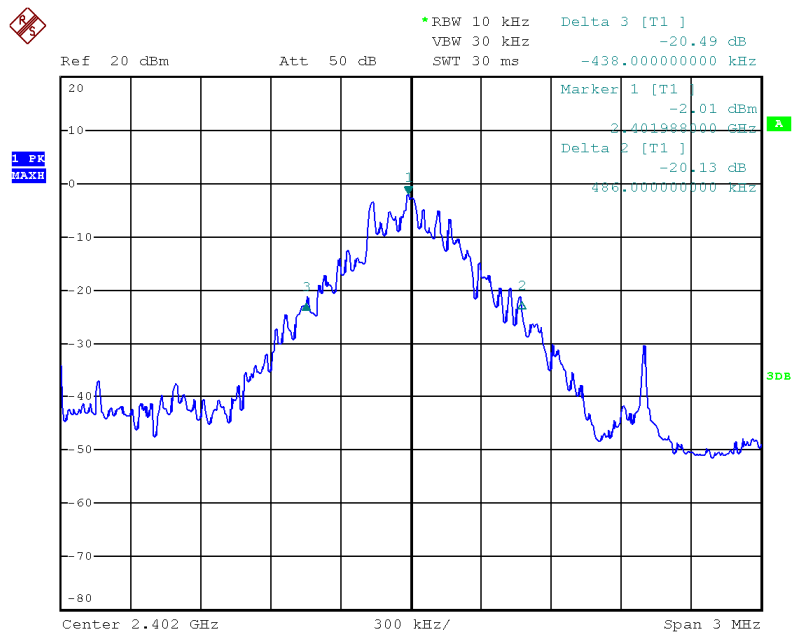
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	924	/	Pass
Mid Channel	2441	942	/	Pass
High Channel	2480	918	/	Pass

Table 8: Test result of 20dB Bandwidth, 8DPSK modulation

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1300	/	Pass
Mid Channel	2441	1308	/	Pass
High Channel	2480	1296	/	Pass

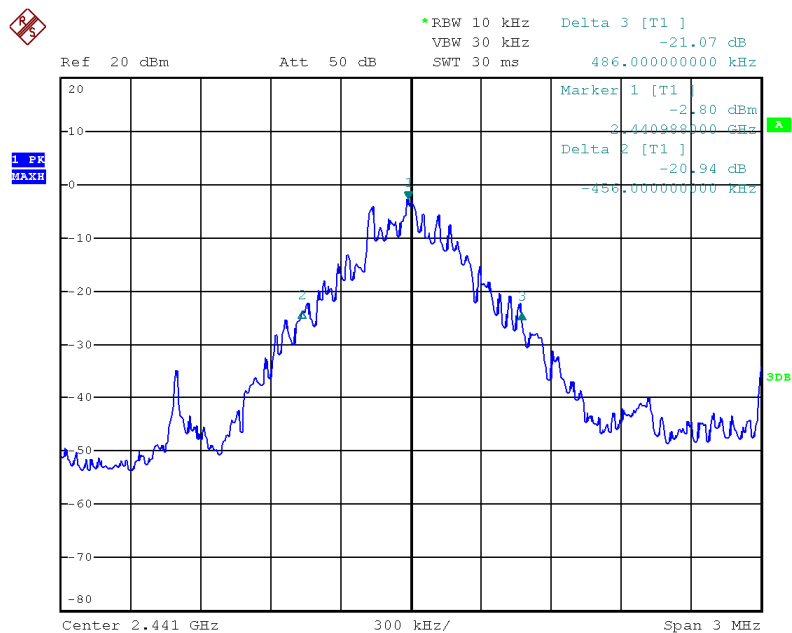
Test Plot of 20dB Bandwidth, GFSK

Low Channel

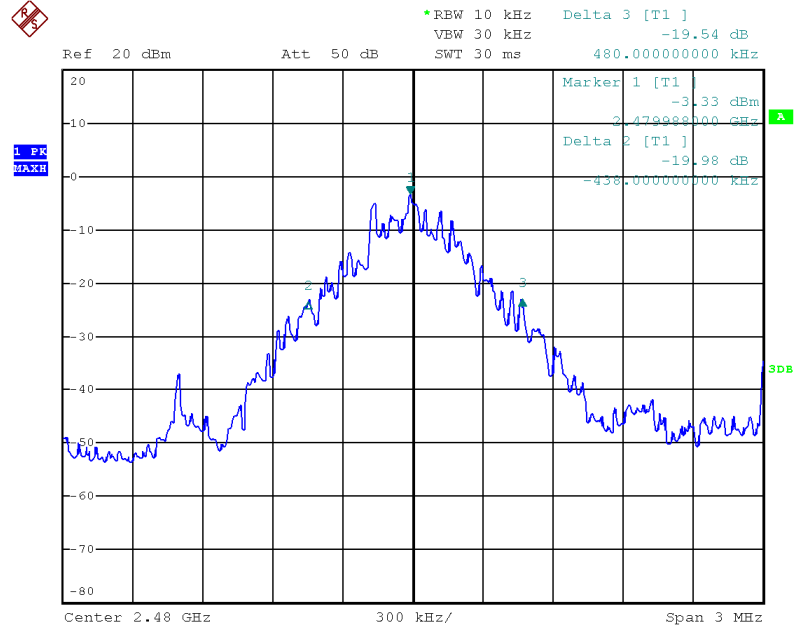


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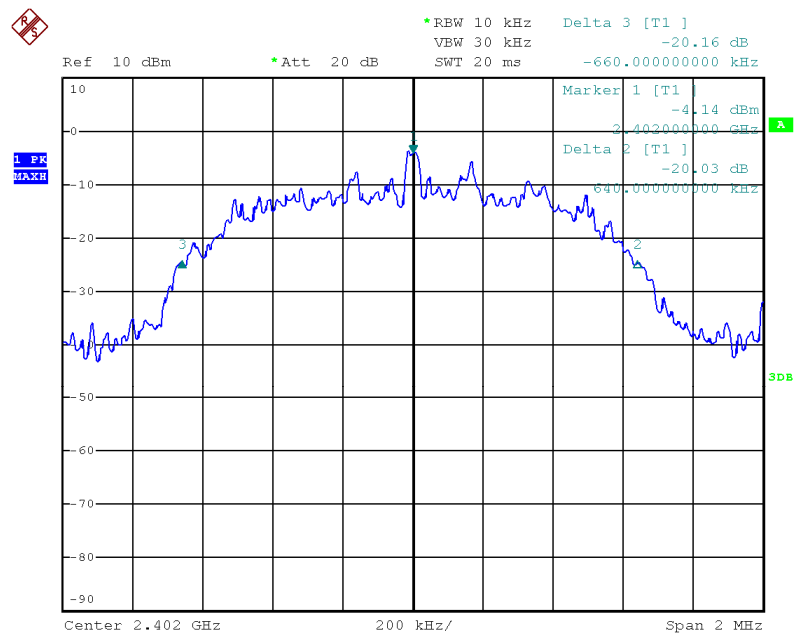
Middle Channel



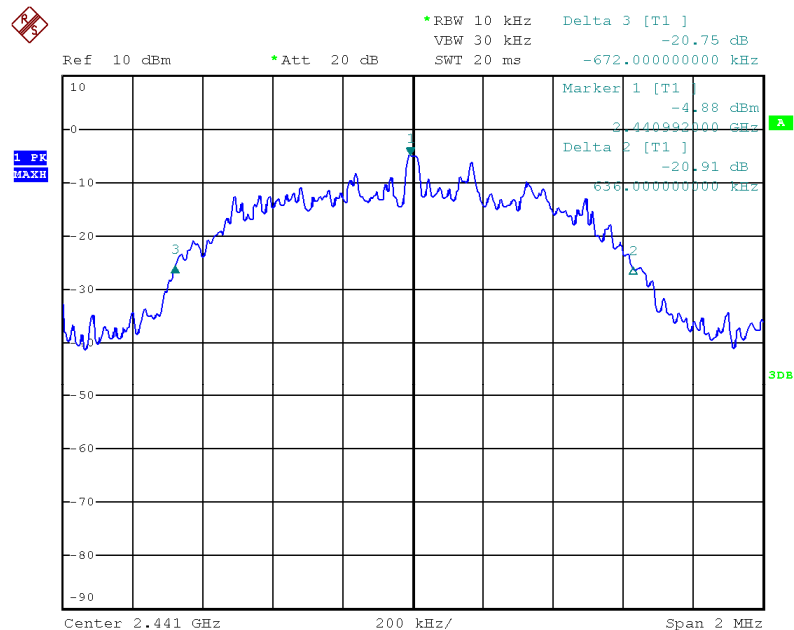
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High Channel


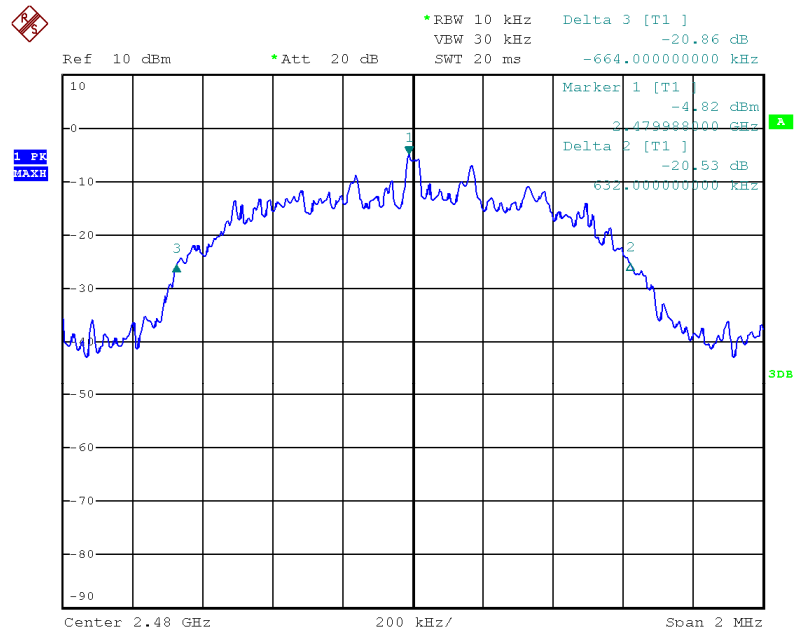
Date: 19.SEP.2011 01:30:36

Test Plot of 20dB Bandwidth, 8DPSK
Low Channel


Date: 19.SEP.2011 02:36:57

Middle Channel


Date: 19.SEP.2011 02:37:40

High Channel


Date: 19.SEP.2011 02:38:30

5.1.4 Conducted spurious emissions measured in 100kHz Bandwidth

RESULT:**Passed**

Date of testing	:	2011-09-19
Test standard	:	FCC part 15.247(d)
Basic standard	:	ANSI C63.4: 2003
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shield room

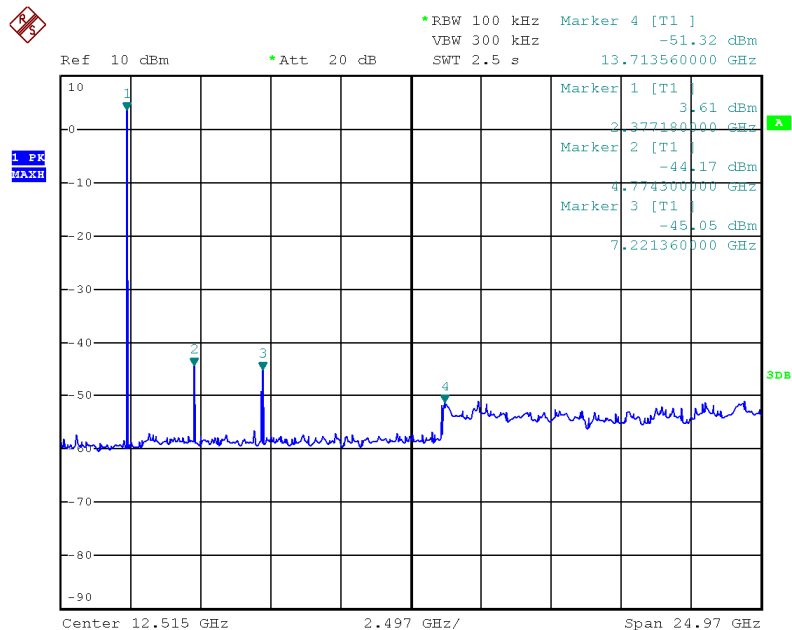
Test setup

Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	22°C
Relative humidity	:	52%
Atmospheric pressure	:	101 kPa

All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved as well.

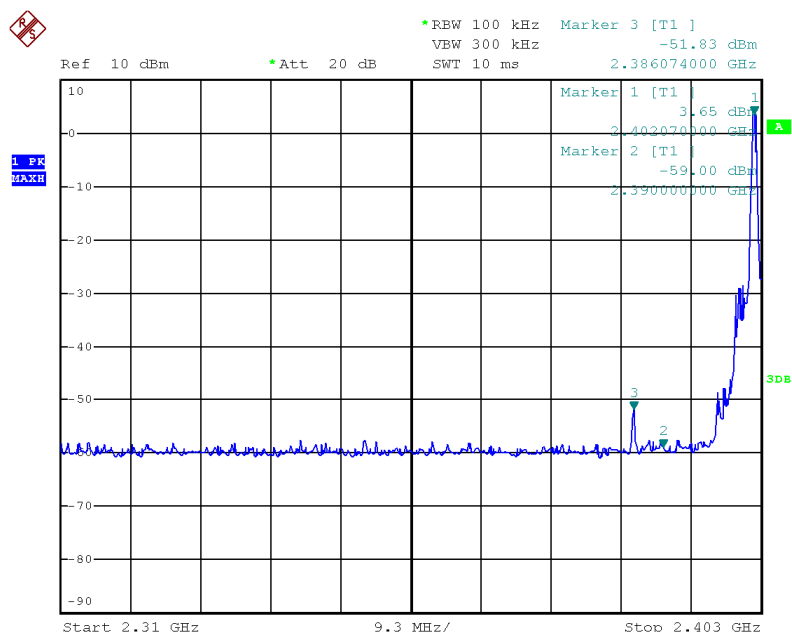
Test Plot of 100kHz Bandwidth of Frequency Band Edge, GFSK modulation

Low Channel

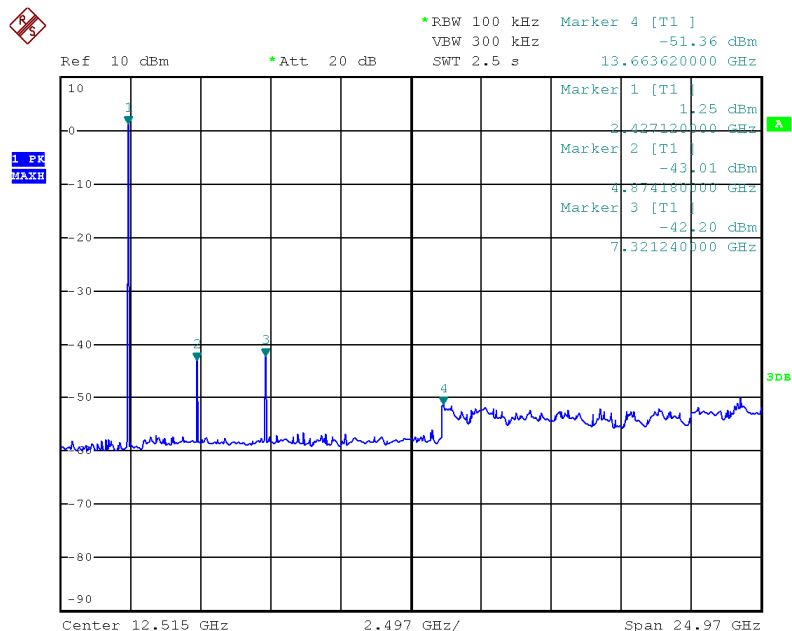


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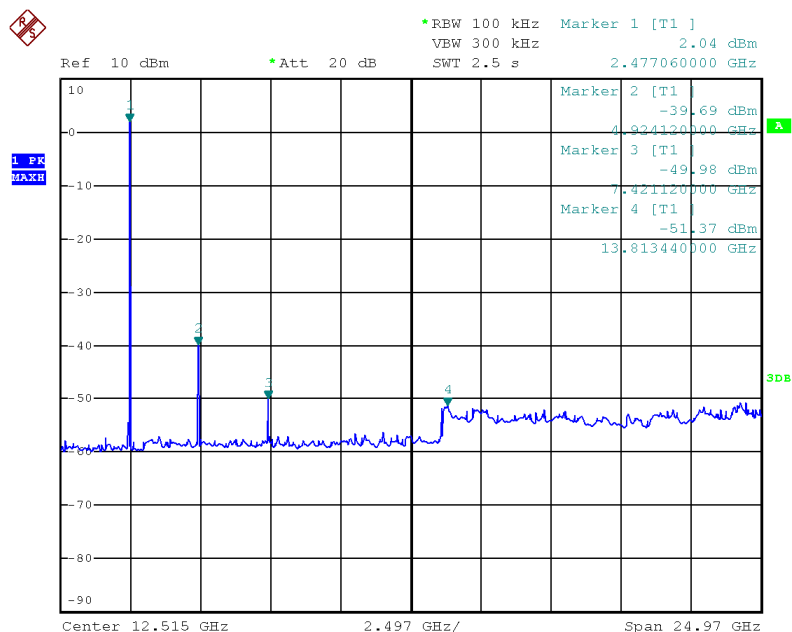
Low Channel, Band Edge



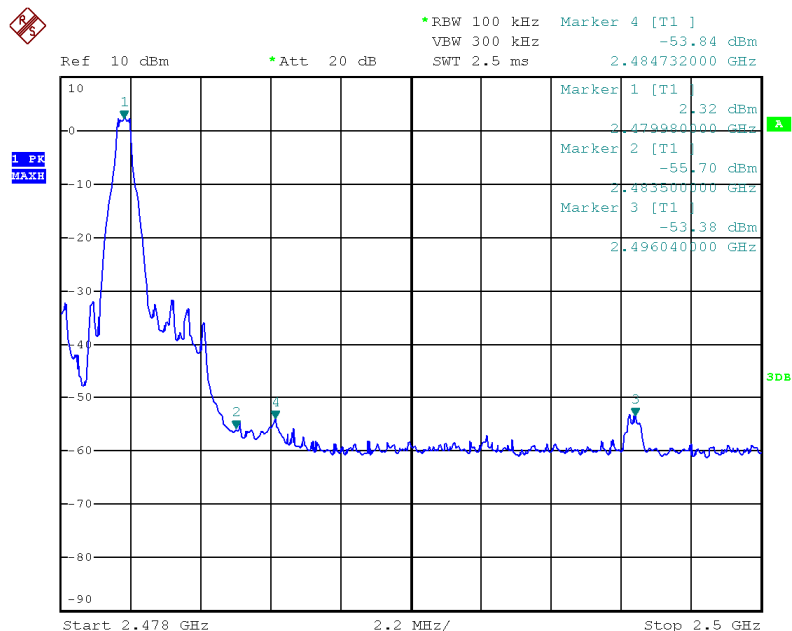
Date: 19.SEP.2011 02:02:06

Middle Channel


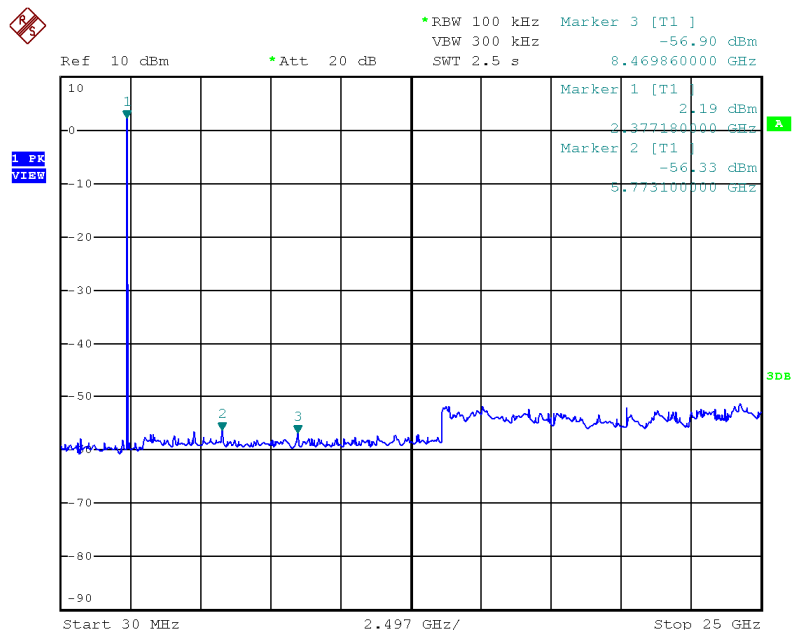
Date: 19.SEP.2011 01:58:44

High Channel


Date: 19.SEP.2011 02:00:02

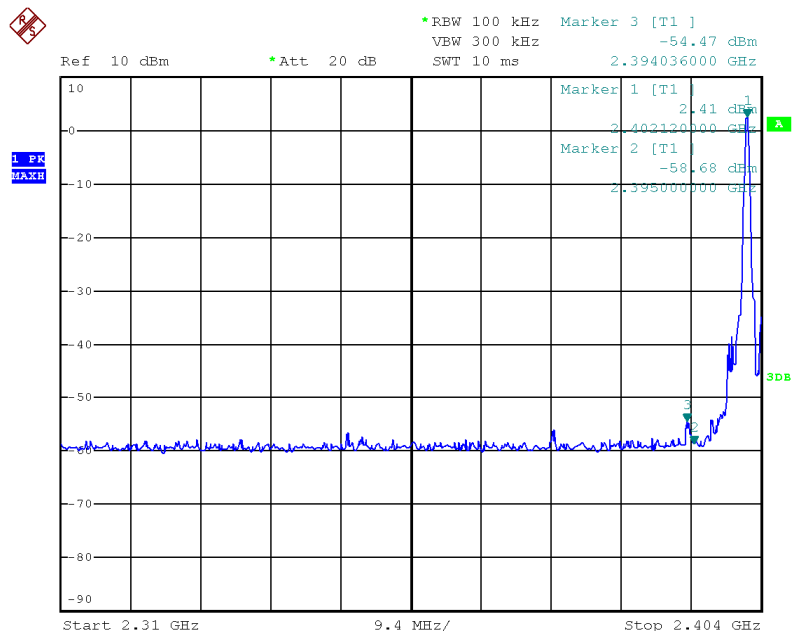
High Channel, Band Edge


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Test Plot of 100kHz Bandwidth of Frequency Band Edge, 8DPSK modulation
Low Channel


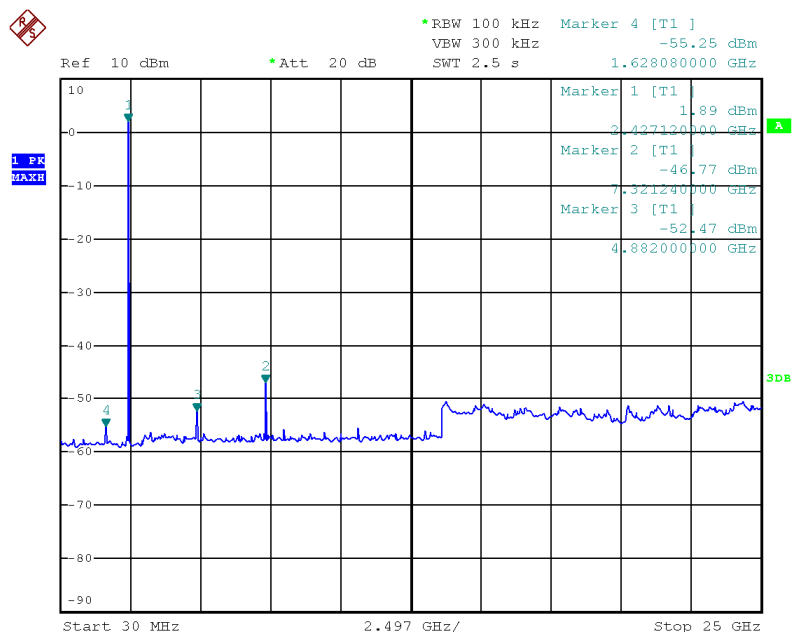
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Low Channel, Band Edge



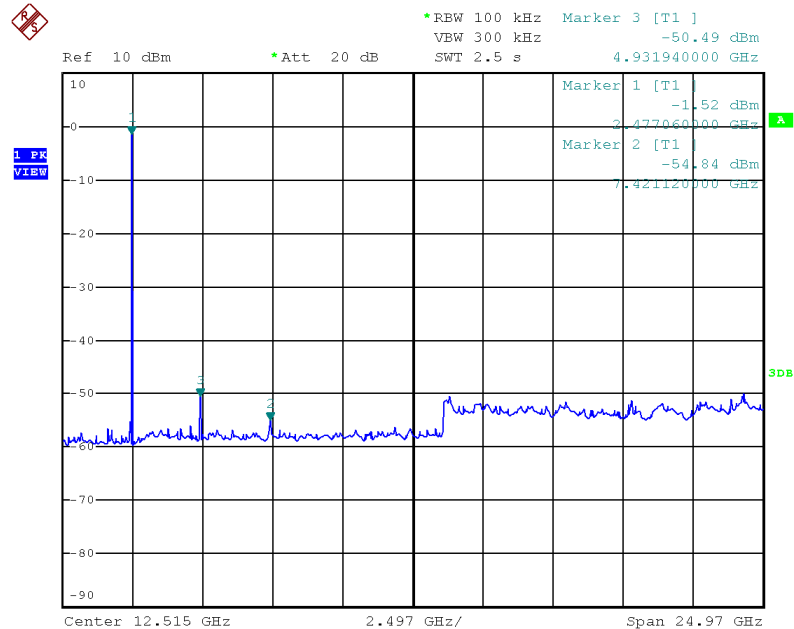
Date: 16.SEP.2011 05:43:24

Middle Channel



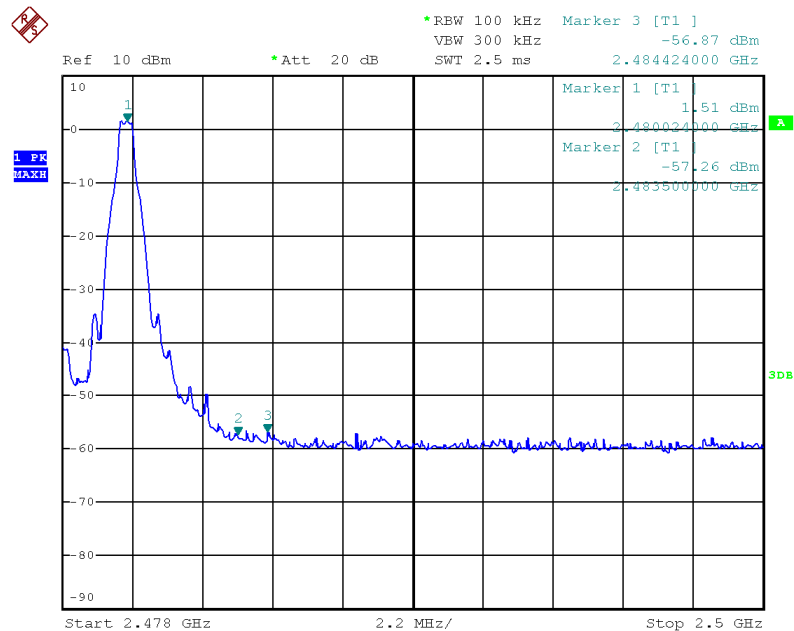
Date: 19.SEP.2011 03:05:42

High Channel



Date: 19.SEP.2011 03:08:30

High Channel, Band Edge



Date: 16.SEP.2011 05:45:31

5.1.5 Spurious Emission

RESULT:**Passed**

Date of testing	:	2011-09-25 to 2011-09-28
Test standard	:	FCC part 15.247(d) FCC Part 15.205
Basic standard	:	ANSI C63.4: 2003
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A, B
Ambient temperature	:	23°C
Relative humidity	:	50%
Atmospheric pressure	:	101 kPa

Remark:

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test setup photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For details refer to Appendix 1.

5.1.6 Frequency Separation

RESULT:
Passed

Date of testing : 2011-09-19
 Test standard : FCC part 15.247(a)(1)
 Basic standard : ANSI C63.4: 2003
 Limit : $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 22°C
 Relative humidity : 52%
 Atmospheric pressure : 101 kPa

Table 9: Test result of Frequency Separation, GFSK modulation

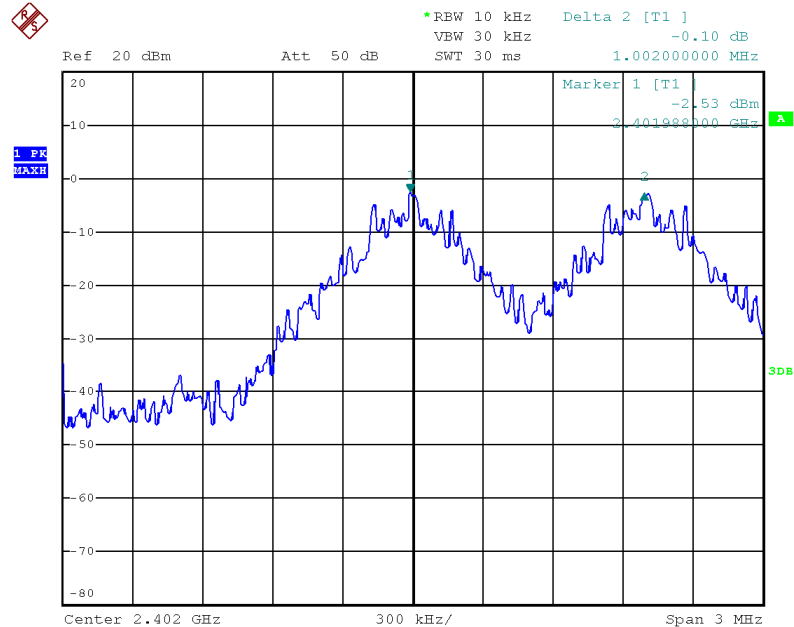
Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2479			

Table 10: Test result of Frequency Separation, 8DPSK modulation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2479			

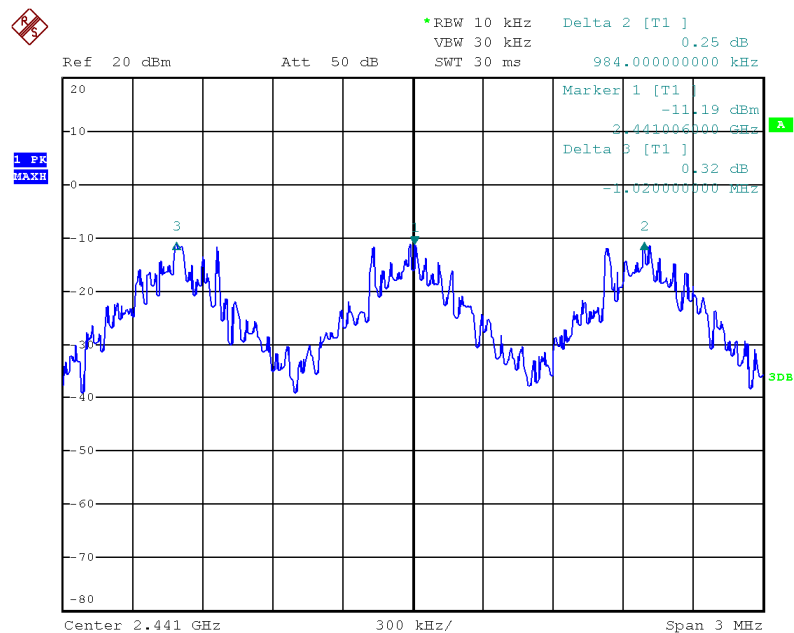
Test Plot of Frequency Separation, GFSK modulation

Low Channel

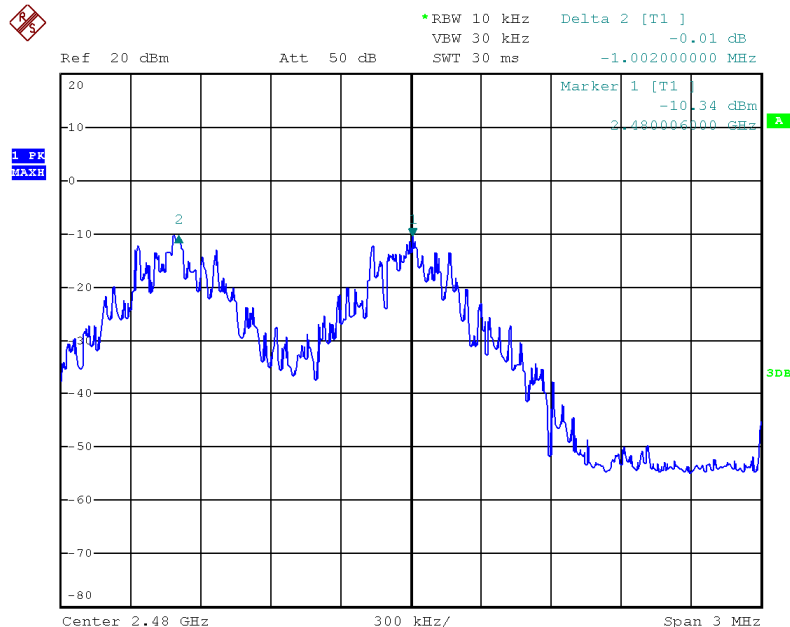


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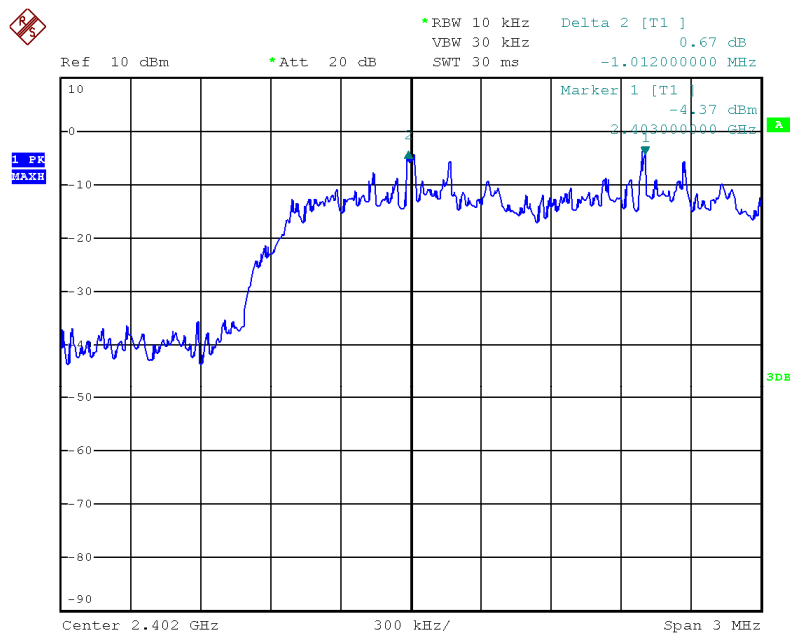
Middle Channel



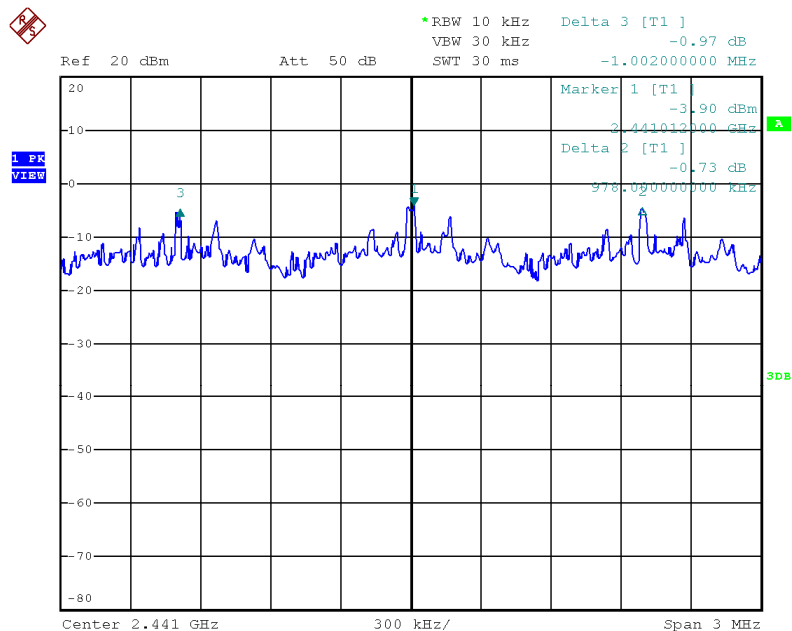
Date: 19.SEP.2011 01:47:16

High Channel


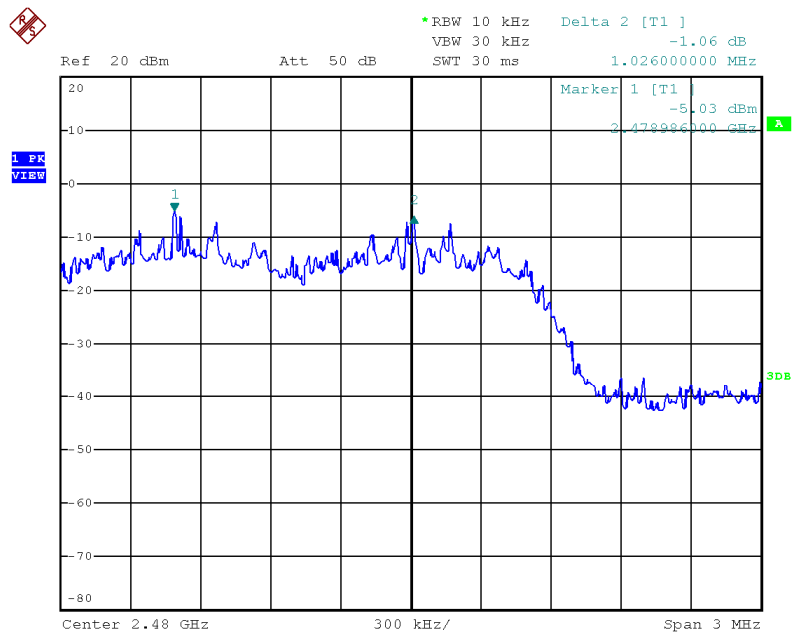
Date: 19.SEP.2011 01:48:28

Test Plot of Frequency Separation, 8DPSK modulation
Low Channel


Date: 19.SEP.2011 02:46:16

Middle Channel


Date: 19.SEP.2011 02:52:17

High Channel


Date: 19.SEP.2011 02:53:09

5.1.7 Number of hopping frequency

RESULT:
Passed

Date of testing : 2011-09-19
 Test standard : FCC part 15.247(a)(1)(iii)
 Basic standard : ANSI C63.4: 2003
 Limits : ≥ 15 non-overlapping channels
 Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 22°C
 Relative humidity : 52%
 Atmospheric pressure : 101 kPa

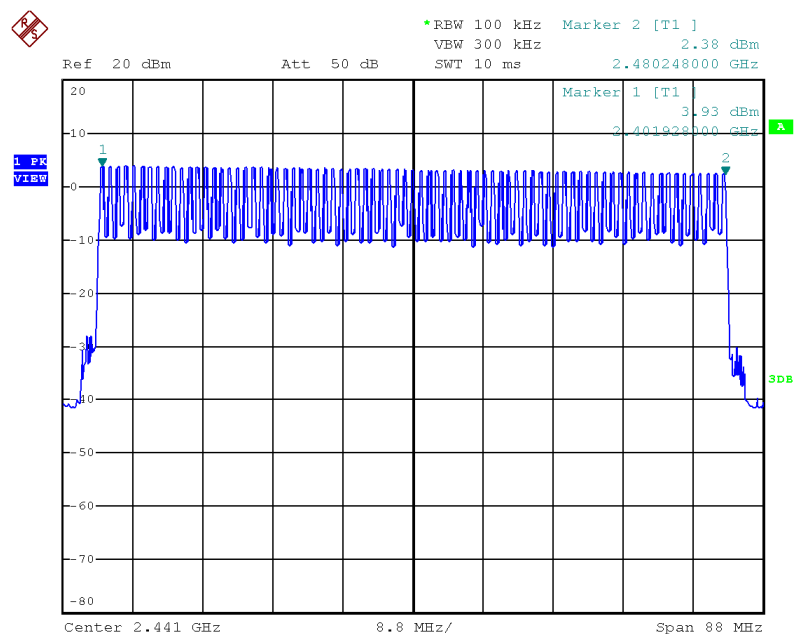
Table 11: Test result of Number of hopping frequency, GFSK

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
<u>2400</u> to <u>2483.5</u> MHz	79	≥ 15	Pass

Table 12: Test result of Number of hopping frequency, 8DPSK

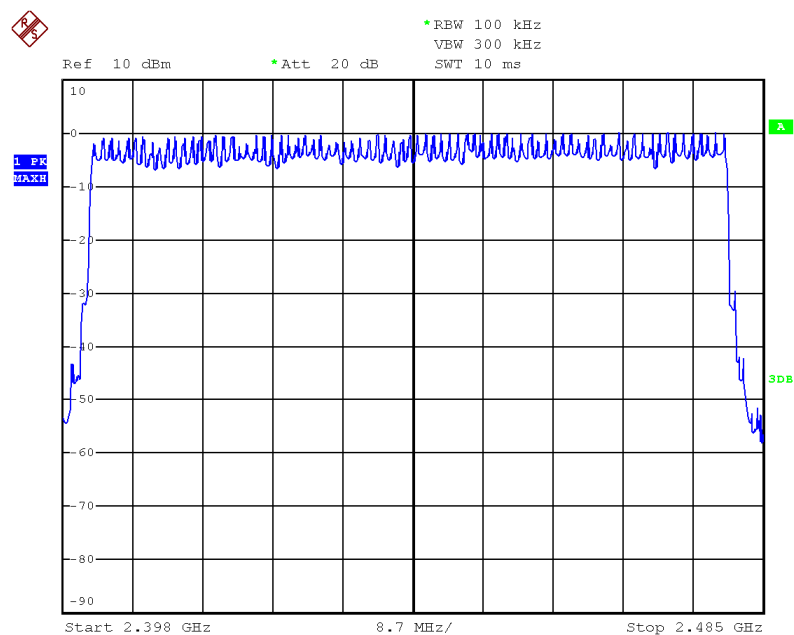
Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
<u>2400</u> to <u>2483.5</u> MHz	79	≥ 15	Pass

Test Plot of Number of hopping frequencies, GFSK



Date: 19.SEP.2011 01:10:37

Test Plot of Number of hopping frequencies, 8DPSK



Date: 19.SEP.2011 03:26:28

5.1.8 Time of Occupancy

RESULT:
Passed

Date of testing : 2011-09-19
 Test standard : FCC part 15.247(a)(1)(iii)
 Basic standard : ANSI C63.4: 2003
 Limits : 0.4s
 Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 20°C
 Relative humidity : 50%
 Atmospheric pressure : 101 kPa

Table 13: Test result of Time of Occupancy, GFSK modulation

Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.534	0.171	0.4	Pass
	DH3	1.550	0.248	0.4	Pass
	DH5	3.070	0.327	0.4	Pass
Mid Channel	DH1	0.533	0.171	0.4	Pass
	DH3	1.550	0.248	0.4	Pass
	DH5	3.090	0.330	0.4	Pass
High Channel	DH1	0.540	0.173	0.4	Pass
	DH3	1.550	0.248	0.4	Pass
	DH5	3.090	0.330	0.4	Pass

Table 14: Test result of Time of Occupancy, 8DPSK modulation

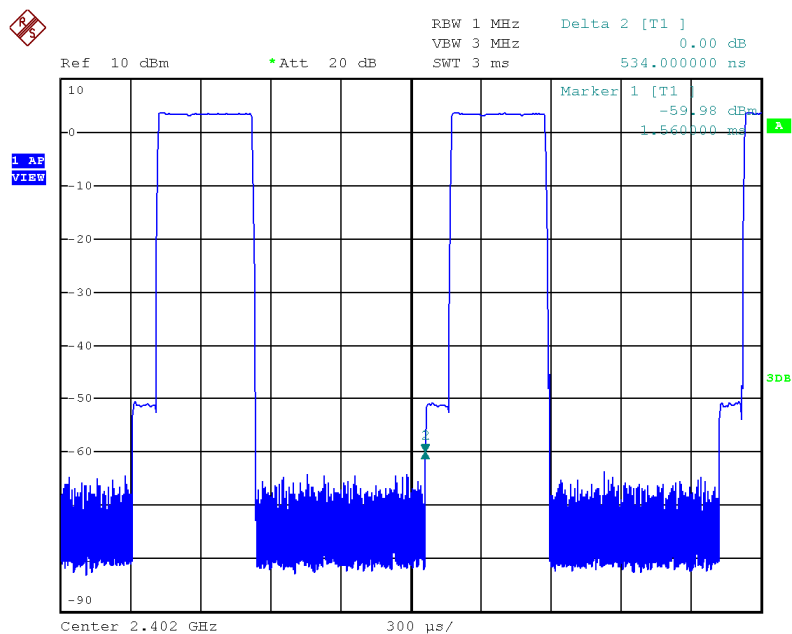
Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.558	0.179	0.4	Pass
	DH3	1.840	0.294	0.4	Pass
	DH5	3.060	0.326	0.4	Pass
Mid Channel	DH1	0.564	0.180	0.4	Pass
	DH3	1.820	0.291	0.4	Pass
	DH5	3.100	0.331	0.4	Pass
High Channel	DH1	0.558	0.179	0.4	Pass
	DH3	1.820	0.291	0.4	Pass
	DH5	3.060	0.326	0.4	Pass

Note:

$$\text{Dwell time} = \text{Pulse width} \times (\text{Hopping rate} / \text{Number of channels}) \times \text{Period}$$
$$\text{Period} = 0.4 \text{ (seconds/ channel)} \times 79 \text{ (channel)} = 31.6 \text{ seconds}$$

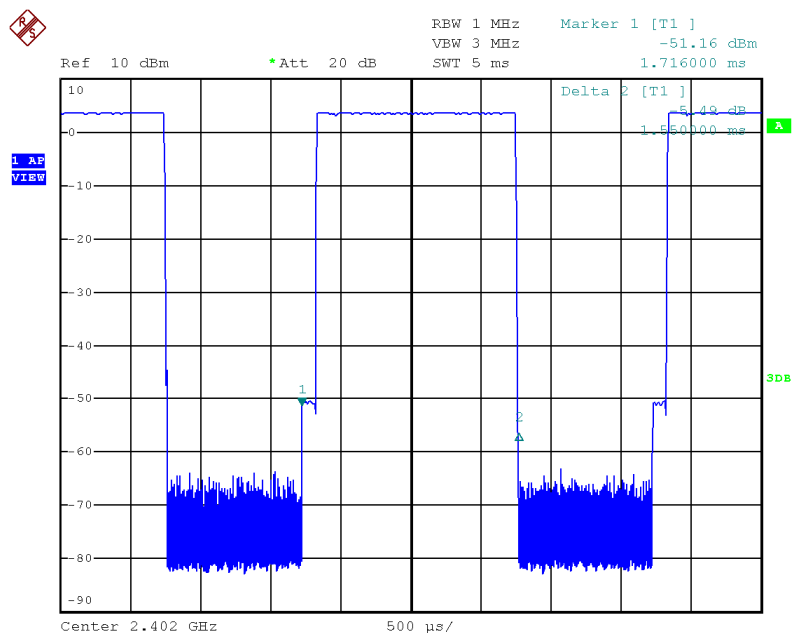
Test Plot of Time of Occupancy, GFSK modulation

Low Channel- DH1

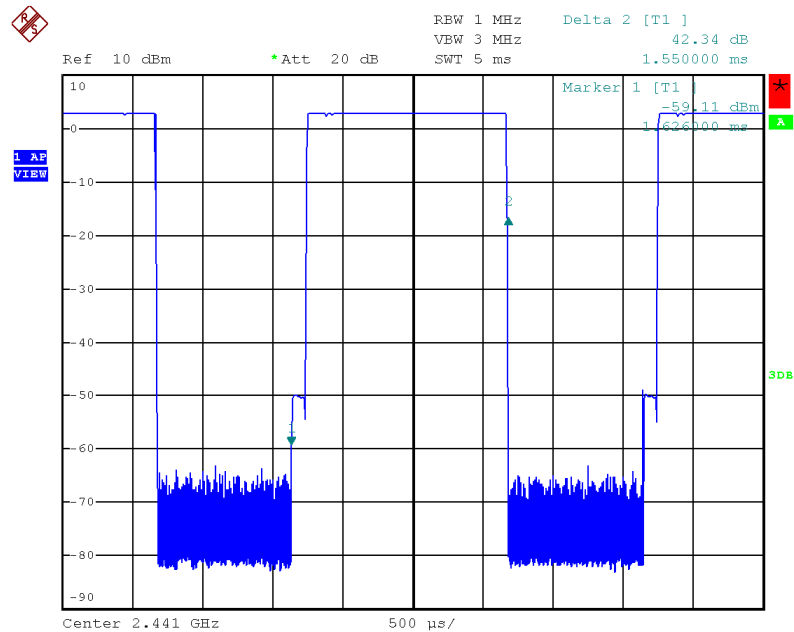


Date: 19.SEP.2011 02:07:57

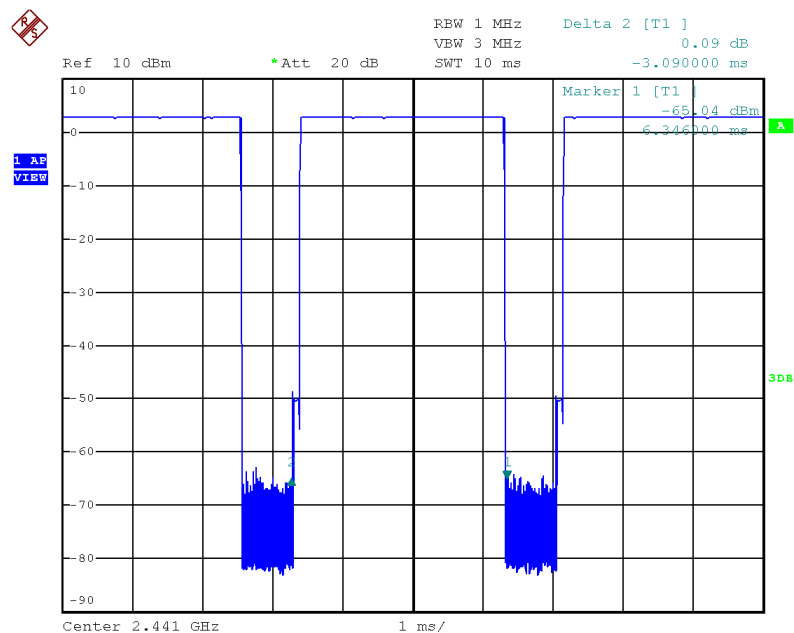
Low Channel- DH3



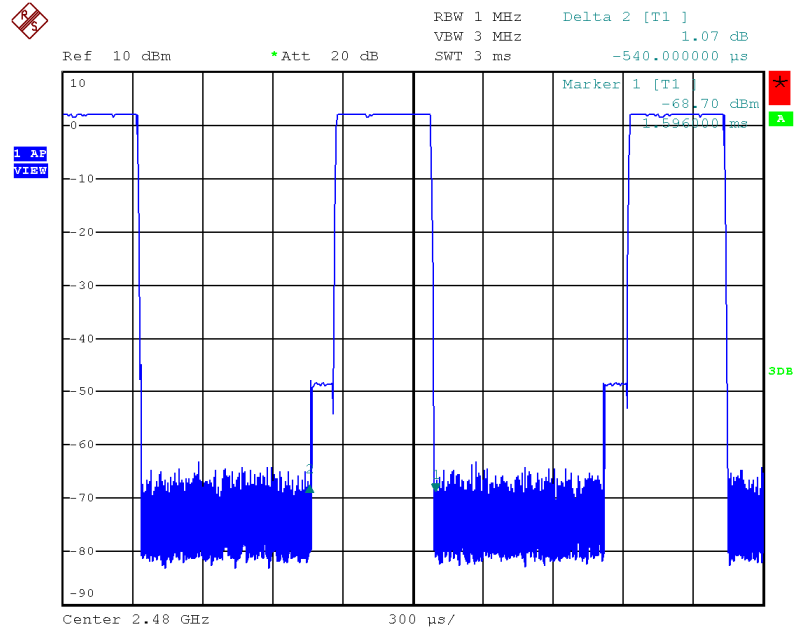
Date: 19.SEP.2011 02:11:47

Middle Channel- DH3


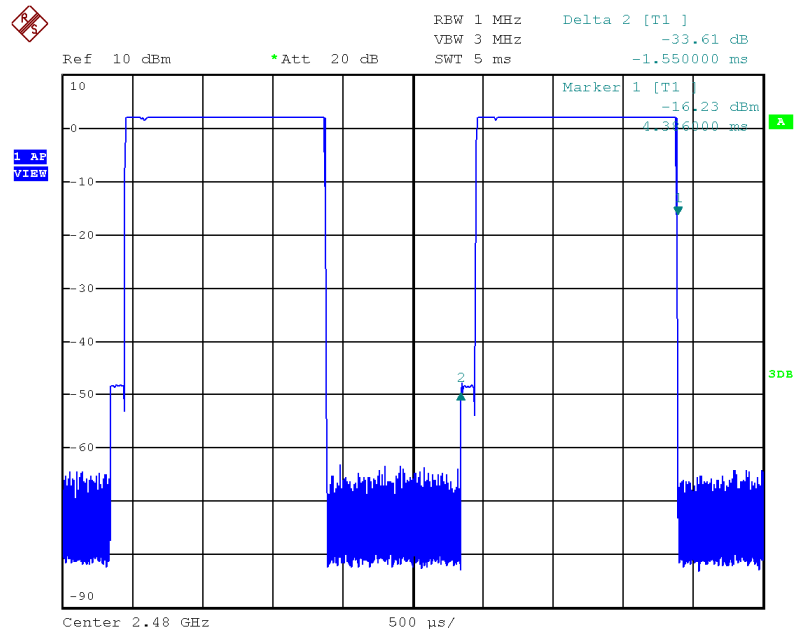
Date: 19.SEP.2011 02:12:16

Middle Channel- DH5


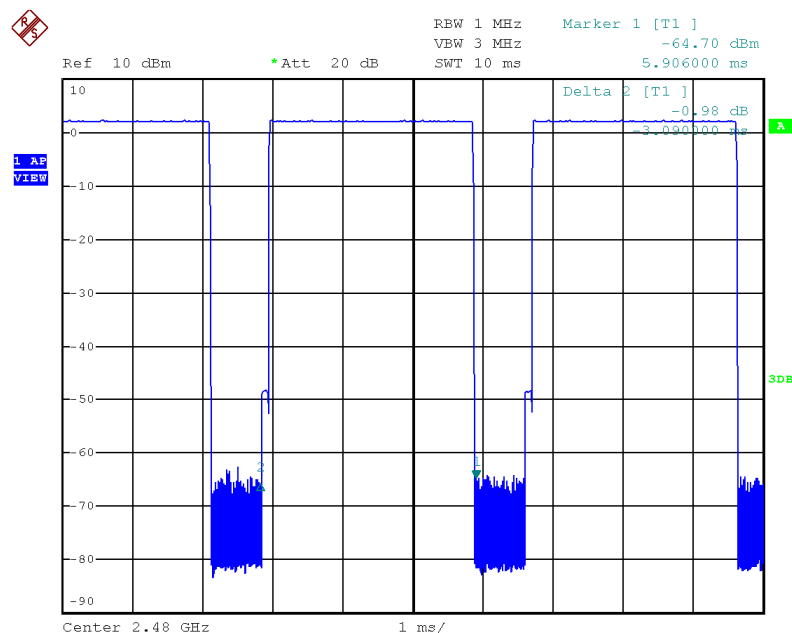
Date: 19.SEP.2011 02:14:44

High Channel- DH1


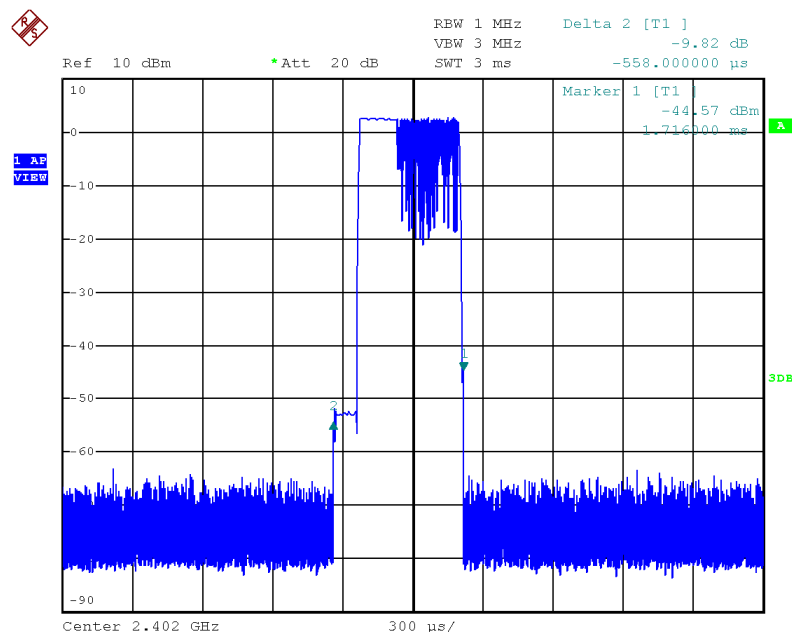
Date: 19.SEP.2011 02:09:28

High Channel- DH3


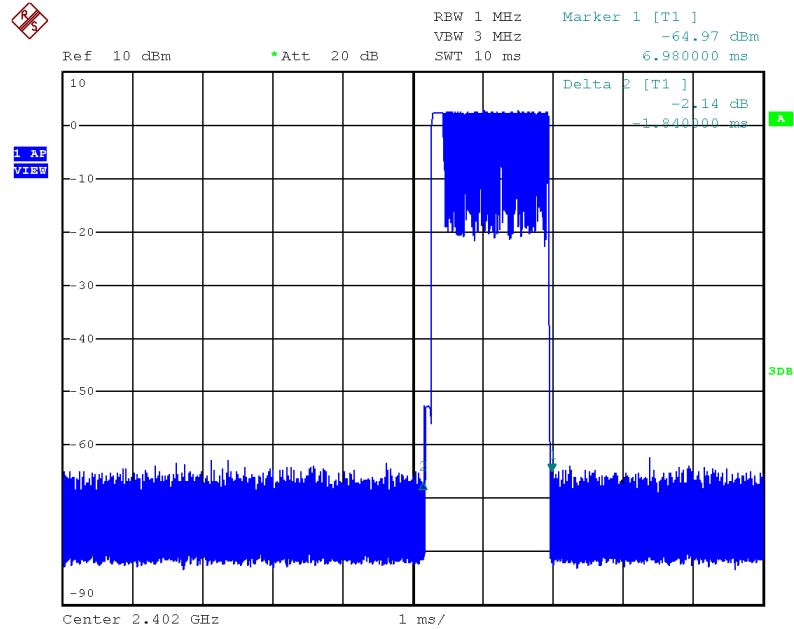
Date: 19.SEP.2011 02:13:00

High Channel- DH5


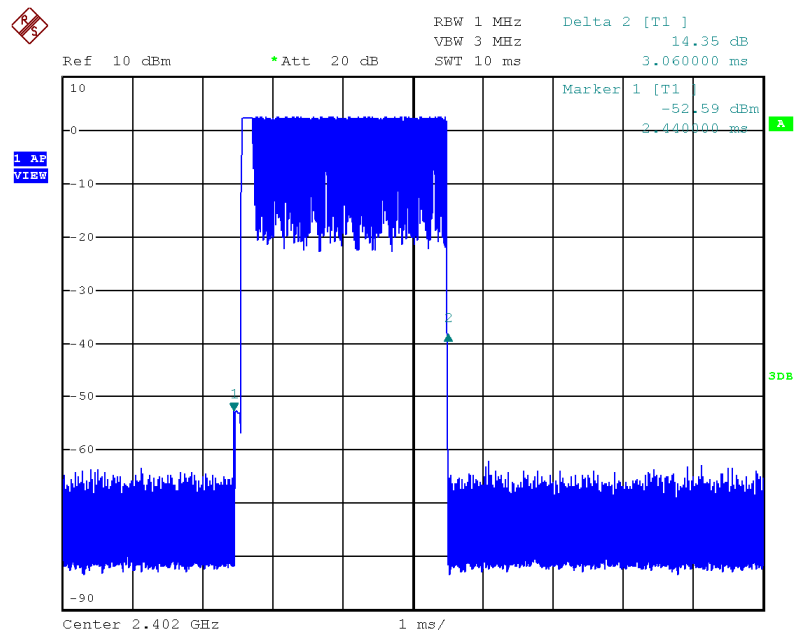
Date: 19.SEP.2011 02:15:29

Test Plot of Time of Occupancy, 8DPSK modulation
Low Channel- DH1


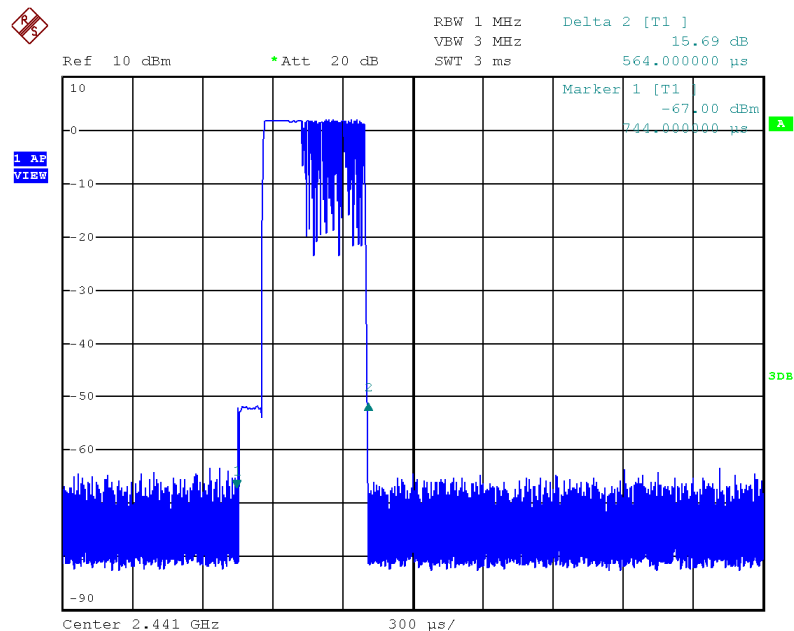
Date: 19.SEP.2011 03:34:16

Low Channel- DH3


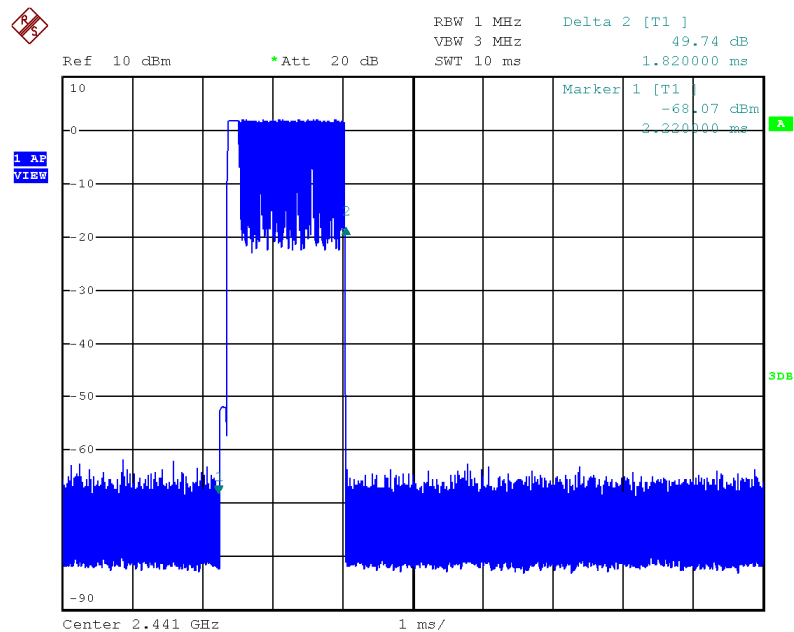
Date: 19.SEP.2011 03:31:24

Low Channel- DH5


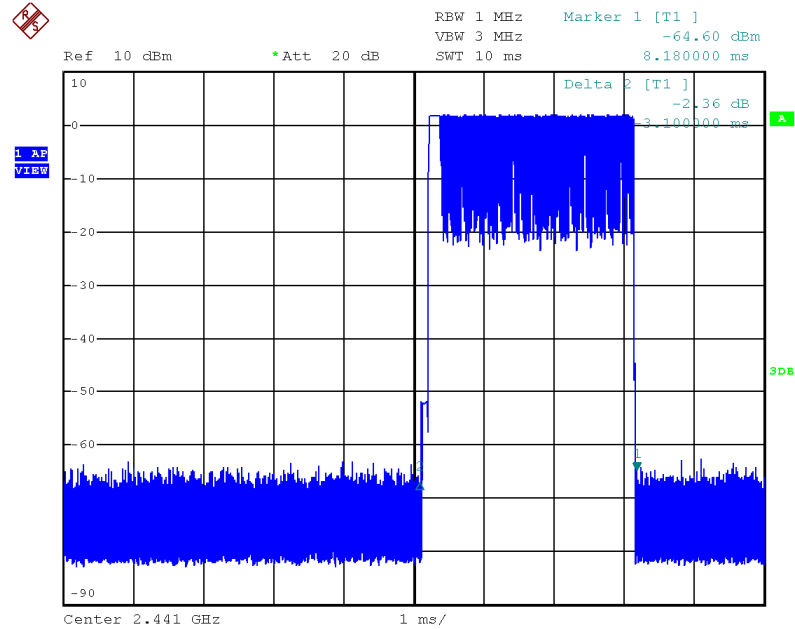
Date: 19.SEP.2011 03:28:32

Middle Channel- DH1


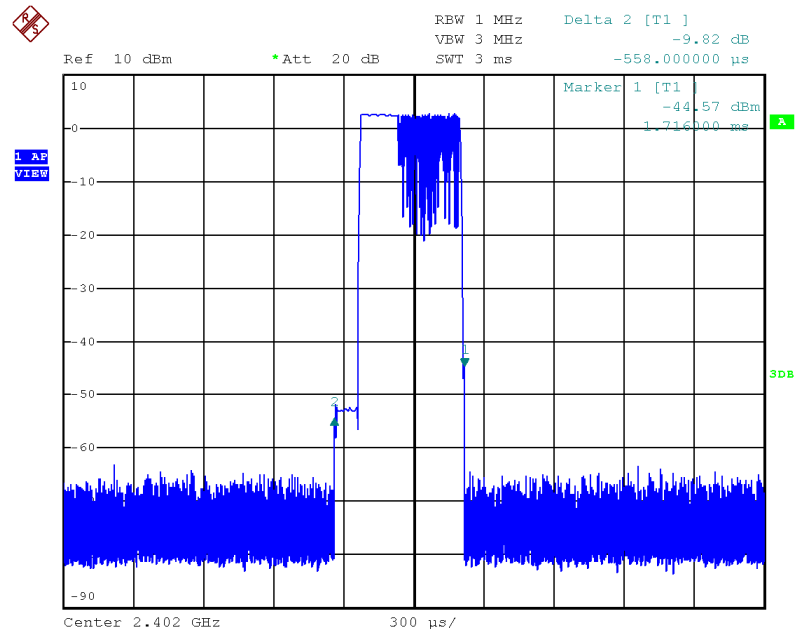
Date: 19.SEP.2011 03:35:32

Middle Channel- DH3


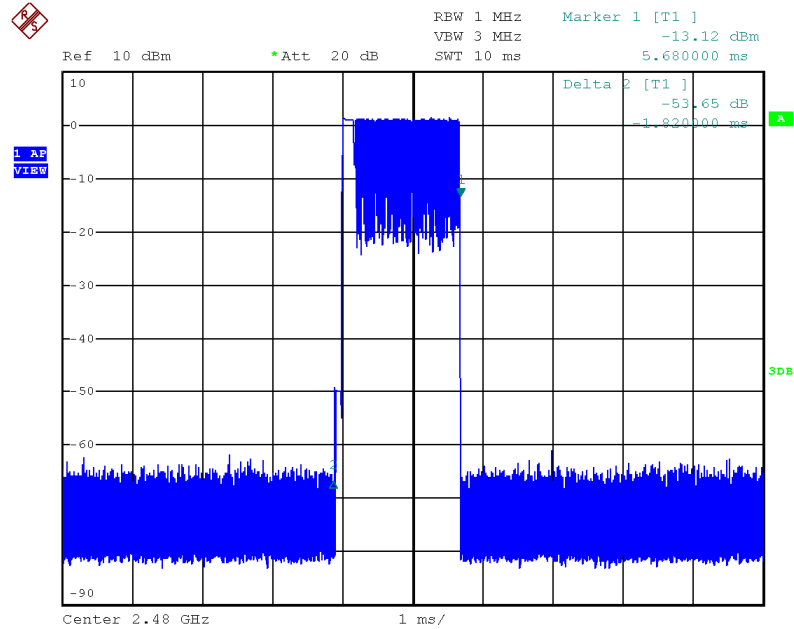
Date: 19.SEP.2011 03:32:17

Middle Channel- DH5


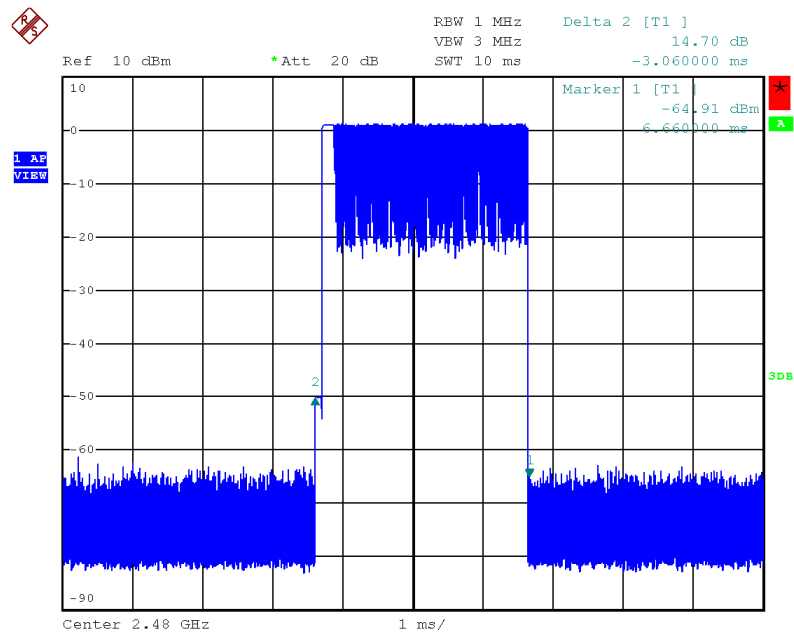
Date: 19.SEP.2011 03:29:16

High Channel- DH1


Date: 19.SEP.2011 03:34:16

High Channel- DH3


Date: 19.SEP.2011 03:32:52

High Channel- DH5


Date: 19.SEP.2011 03:29:57

5.1.9 Conducted emissions

RESULT:**Passed**

Date of testing	:	2011-09-13
Test standard	:	FCC Part 15.107(a), FCC Part 15.207(a)
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.107(a), FCC Part 15.207(a)
Kind of test site	:	Shield room

Test setup

Input Voltage (to AC input of Adapter)	:	AC 120V, 60Hz
Operation Mode	:	C
Earthing	:	Not connected
Ambient temperature	:	23°C
Relative humidity	:	50%
Atmospheric pressure	:	101 kPa

For details refer to Appendix 1.

5.1.10 Radiated emissions

RESULT:**Passed**

Date of testing	:	2011-09-28
Test standard	:	FCC Part 15.109
Basic standard	:	ANSI C63.4: 2003
Test frequency	:	30 - 6000MHz
Limite	:	FCC Part 15.109(a)
Kind of test site	:	3m Semi-Anechoic Chamber

Test Setup

Input Voltage (to AC input of Adapter)	:	AC 120V, 60Hz
Operation Mode	:	C
Earthing	:	Not connected
Ambient temperature	:	23°C
Relative humidity	:	50%
Atmospheric pressure	:	101 kPa

For details refer to Appendix 1.

The Radiated Emissions testing was performed in the X and Z axis mode. The X Axis mode is the worst-case recorded in this test report.

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Passed**

Test standard : FCC KDB Publication 447498

Since maximum peak output power of the transmitter is $<60/f(\text{GHz})\text{mW}$, i.e.
 $3.62\text{mW} < 25(=60/2.4)\text{mW}$, hence the EUT is excluded from SAR evaluation according to
FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

7. Photographs of the Test Set-Up

Photograph 1: Set-up for Radiated Emissions, below 1GHz



Photograph 2: Set-up for Radiated Emissions, above 1GHz



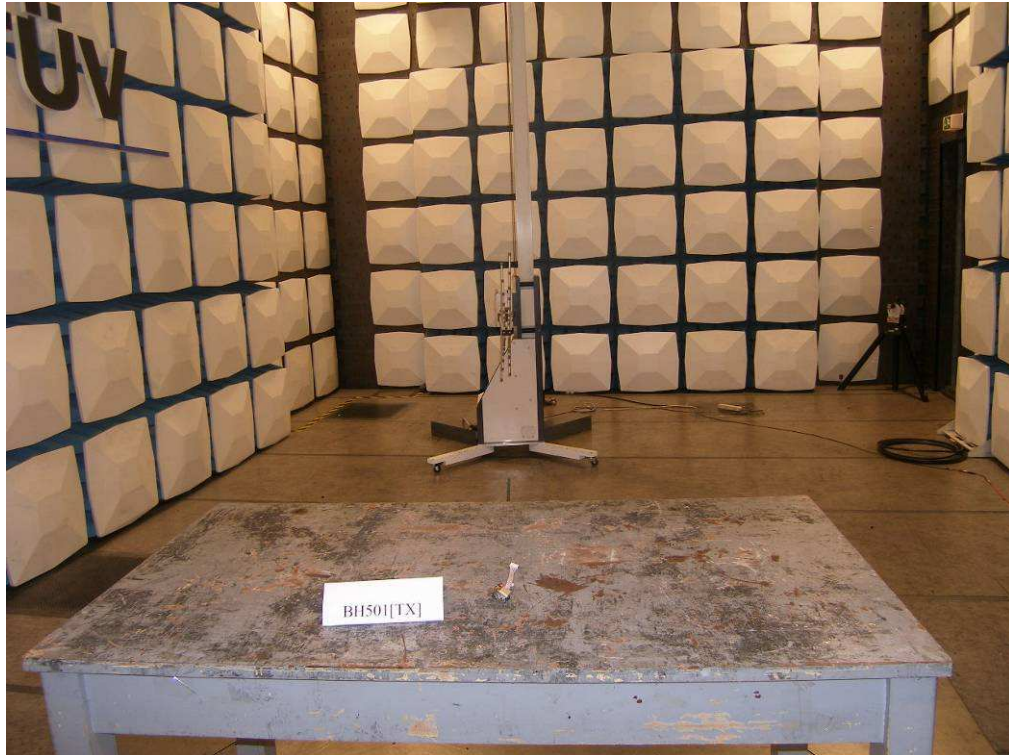
Photograph 3: Set-up for Coducted Emissions



Photograph 4: Set-up for Spurious Emissions (9kHz-30MHz)



Photograph 5: Set-up for Spurious Emissions (30MHz-1GHz)



Photograph 6: Set-up for Spurious Emissions (1GHz-18GHz)



Photograph 7: Set-up for Spurious Emissions (18GHz-26GHz)



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Figure 1: Test figure of spurious emissions, mode A.1, Horizontal polarity (9kHz – 30MHz), GFSK Modulation

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EMC Test Service Hotline: +86-20-28391188

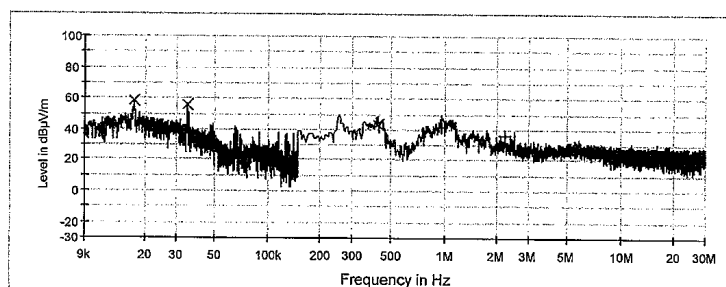
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Corr. (dB)	Polarization
0.017160	---	58.1	20.6	H
0.034920	---	55.5	20.2	H
0.422000	---	43.5	20.7	H
0.966000	41.9	---	20.3	H
2.210000	36.6	---	20.2	H



Date: 25/09/2011 - Time: 10:58:06

Tested by: _____ Reviewed by: _____

Figure 2: Test figure of spurious emissions, mode A.1, Vertical polarity (9kHz – 30MHz) , GFSK Modulation

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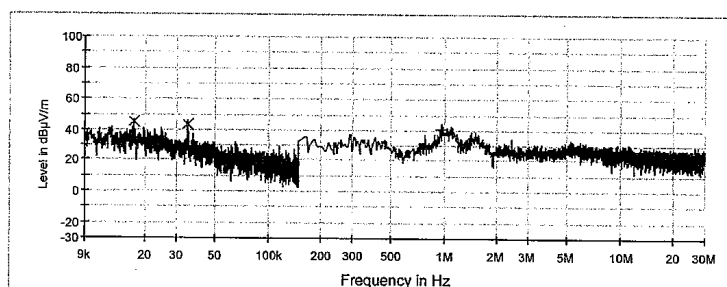
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.017160	---	44.9	20.6	V
0.034840	---	43.6	20.2	V
0.974000	40.5	---	20.3	V
5.218000	28.5	---	21.9	V



Date: 25/09/2011 - Time: 11:08:03

Tested by: _____ Reviewed by: _____

Figure 3: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 300MHz) , GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

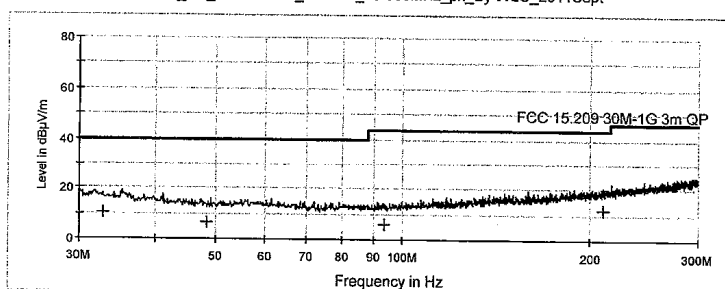
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
32.820000	10.6	14.1	29.4	40.0	H
48.360000	6.8	10.8	33.2	40.0	H
93.720000	5.9	10.2	37.6	43.5	H
210.660000	12.1	16.5	31.4	43.5	H

Date: 9/26/2011 - Time: 5:24:14

Tested by:   Reviewed by: _____

Figure 4: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 300MHz) , GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

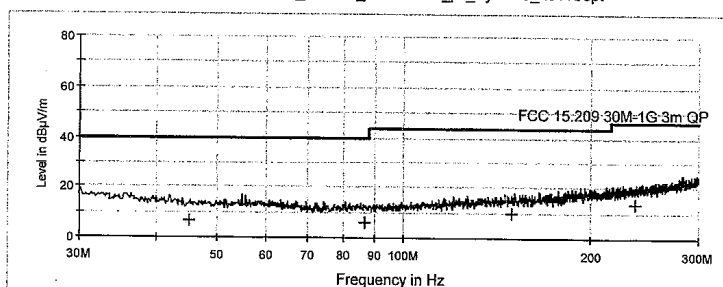
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
45.240000	6.6	11.2	33.4	40.0	V
86.580000	6.0	10.3	34.0	40.0	V
149.840000	9.6	13.5	33.9	43.5	V
237.120000	13.6	18.1	32.4	46.0	V

Date: 9/26/2011 - Time: 5:26:17

Tested by:  Reviewed by: _____



Figure 5: Test figure of spurious emissions, mode A.1, Horizontal polarity (300MHz – 1GHz) , GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

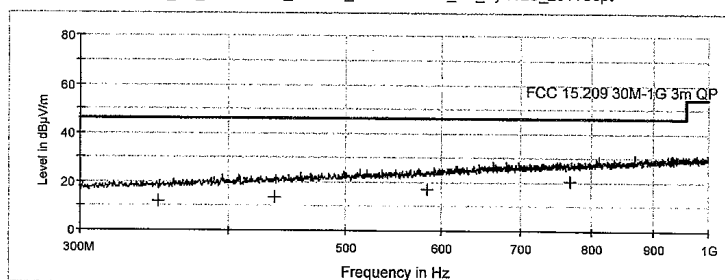
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-Ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
349.380000	11.8	15.7	34.2	46.0	H
436.860000	13.8	17.6	32.2	46.0	H
585.240000	16.9	20.4	29.1	46.0	H
769.680000	20.3	23.2	25.7	46.0	H

Date: 9/27/2011 - Time: 9:48:30

Tested by:   Reviewed by: _____

Figure 6: Test figure of spurious emissions, mode A.1, Vertical polarity (300MHz – 1GHz) , GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

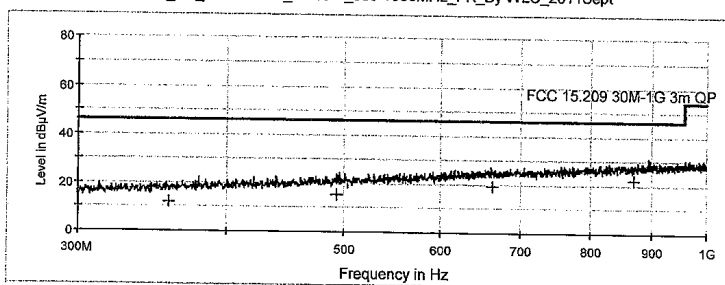
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Polarization
357.780000	12.0	15.9	34.0	46.0	V
492.480000	15.0	18.8	31.0	46.0	V
663.660000	19.2	22.0	26.8	46.0	V
869.820000	21.7	24.5	24.3	46.0	V

Date: 9/27/2011 - Time: 9:46:46

Tested by:  2011.9.27
Reviewed by: _____

Figure 7: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz –18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

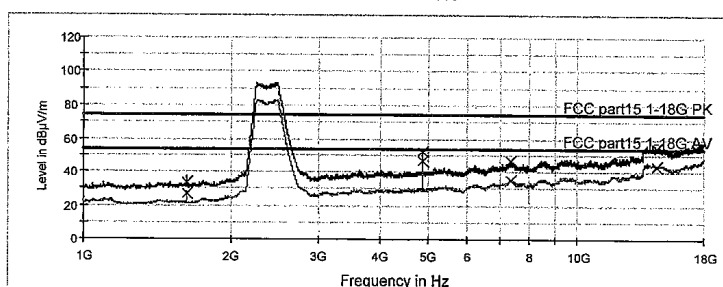
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1624.750000	33.7	-14.2	40.3	74.0	H
4882.375000	52.6	-6.5	21.4	74.0	H
7347.375000	46.9	-0.3	27.1	74.0	H
14485.250000	54.8	7.9	19.2	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1624.750000	26.6	-14.2	27.4	54.0	H
4882.375000	46.6	-6.5	7.4	54.0	H
7347.375000	35.3	-0.3	18.7	54.0	H
14485.250000	43.4	7.9	10.6	54.0	H



Date: 9/28/2011 - Time: 2:55:44

Tested by:  Reviewed by: _____

Figure 8: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

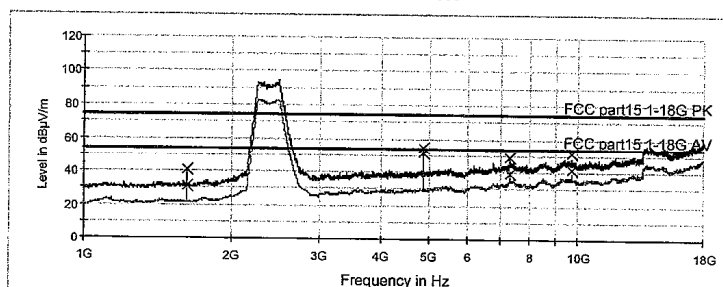
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1624.750000	40.6	-14.2	33.4	74.0	V
4882.375000	54.6	-6.5	19.4	74.0	V
7321.875000	49.1	-0.4	24.9	74.0	V
9763.500000	51.1	4.0	22.9	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1624.750000	31.1	-14.2	22.9	54.0	V
4882.375000	50.9	-6.5	3.1	54.0	V
7321.875000	38.8	-0.4	15.2	54.0	V
9763.500000	41.6	4.0	12.4	54.0	V



Date: 9/28/2011 - Time: 2:49:57

Tested by:  Reviewed by: _____

Figure 9: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz – 26GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

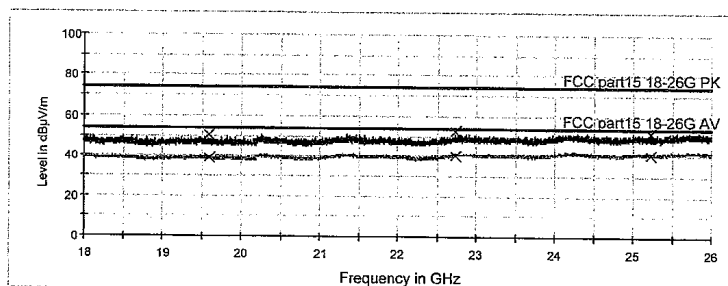
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by II-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
19593.000000	50.4	3.6	23.6	74.0	H
22741.000000	52.2	4.5	21.8	74.0	H
25233.000000	52.0	6.1	22.0	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
19593.000000	38.5	3.6	15.5	54.0	H
22741.000000	40.2	4.5	13.8	54.0	H
25233.000000	40.7	6.1	13.3	54.0	H

Date: 9/27/2011 - Time: 1:55:18



Tested by:  Reviewed by: _____

Figure 10: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 26GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

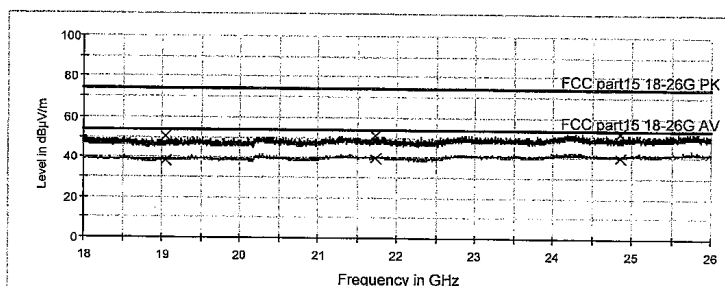
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-Ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
19050.000000	50.2	3.5	23.8	74.0	V
21730.000000	51.3	4.2	22.7	74.0	V
24856.000000	52.5	5.1	21.5	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
19050.000000	38.3	3.5	15.7	54.0	V
21730.000000	39.6	4.2	14.4	54.0	V
24856.000000	40.1	5.1	13.9	54.0	V

Date: 9/27/2011 - Time: 1:32:18



Tested by:  Reviewed by: _____

Figure 11: Test figure of spurious emissions, mode A.2, Horizontal polarity (9kHz – 30MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

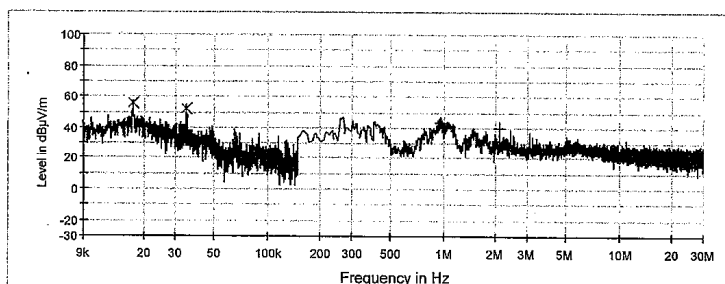
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.017160	---	55.4	20.6	H
0.034920	---	52.6	20.2	H
0.958000	43.1	---	20.3	H
2.110000	40.3	---	20.2	H



Date: 25/09/2011 - Time: 10:52:26

Tested by:  Reviewed by: _____

Figure 12: Test figure of spurious emissions, mode A.2, Vertical polarity (9kHz – 30MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

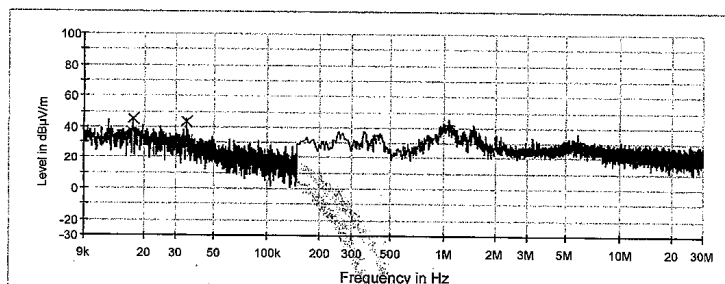
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by II-Ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.017160	---	45.1	20.6	V
0.034840	---	43.7	20.2	V
1.074000	41.2	---	20.3	V
5.810000	31.0	---	21.9	V

Date: 25/09/2011 - Time: 10:46:26

Tested by:  Reviewed by: _____

Figure 13: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 300MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

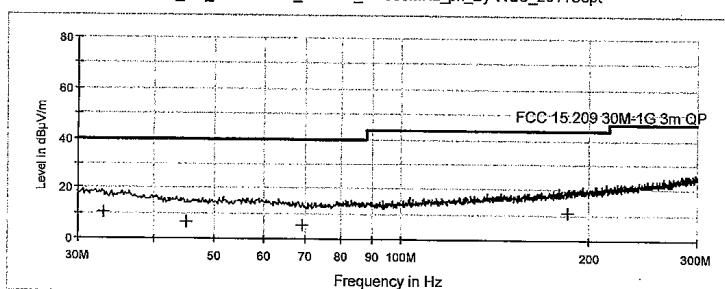
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin-QPK (dB)	Limit-QPK (dBµV/m)	Polarization
33.000000	10.3	14.0	29.7	40.0	H
45.240000	6.6	11.2	33.4	40.0	H
69.300000	5.6	9.6	34.4	40.0	H
185.280000	11.1	15.4	32.4	43.5	H

Date: 9/26/2011 - Time: 5:20:55

Tested by:   Reviewed by: _____

Figure 14: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 300MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

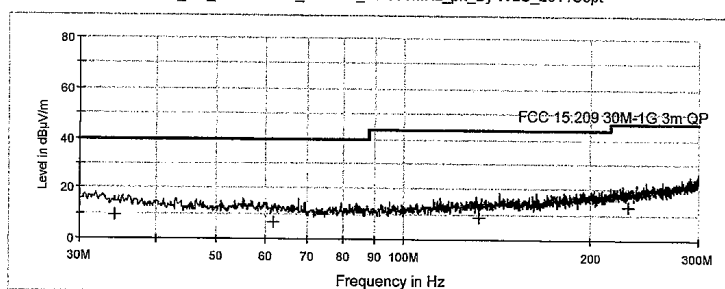
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
34.200000	9.2	13.8	30.8	40.0	V
61.980000	6.4	10.4	33.6	40.0	V
132.480000	8.6	12.5	34.9	43.5	V
231.300000	13.3	17.8	32.7	46.0	V

Date: 9/26/2011 - Time: 5:19:14

Tested by:   Reviewed by: _____

Figure 15: Test figure of spurious emissions, mode A.2, Horizontal polarity (300MHz – 1GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

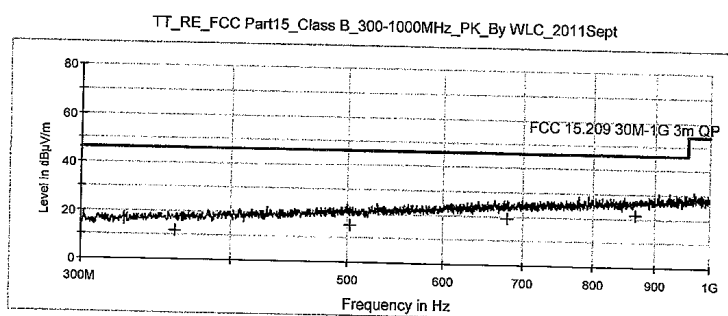
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit = QPK (dBuV/m)	Polarization
359.880000	12.0	15.9	34.0	46.0	H
501.600000	15.2	18.9	30.8	46.0	H
678.720000	19.4	22.2	26.6	46.0	H
867.720000	21.5	24.5	24.5	46.0	H

Date: 9/27/2011 - Time: 9:41:54

Tested by  Reviewed by: _____

Figure 16: Test figure of spurious emissions, mode A.2, Vertical polarity (300MHz – 1GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

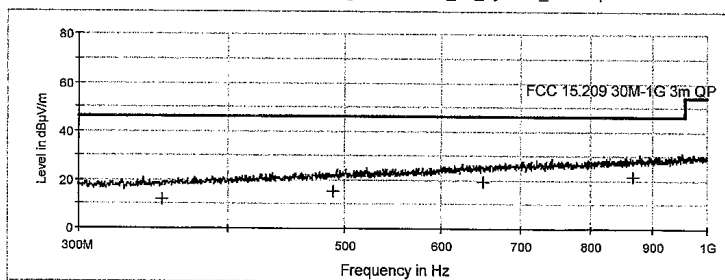
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
352.140000	11.9	15.7	34.1	46.0	V
488.640000	14.9	18.7	31.1	46.0	V
651.420000	19.1	21.8	26.9	46.0	V
868.380000	21.5	24.5	24.5	46.0	V

Date: 9/27/2011 - Time: 9:44:07



Tested by: _____ Reviewed by: _____

Figure 17: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

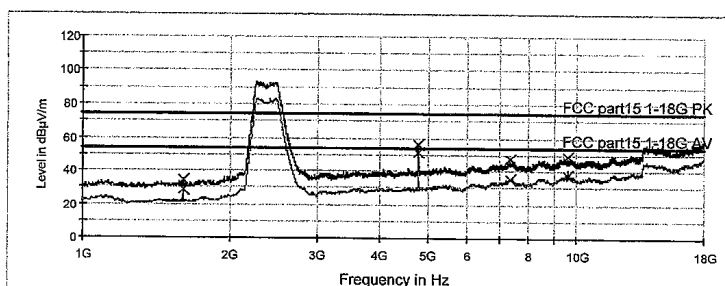
Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by II-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1

Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBμV/m)	Corr (dB)	Margin - PK* (dB)	Limit - PK* (dBμV/m)	Polarization
1601.375000	34.0	-14.5	40.0	74.0	H
4803.750000	56.2	-6.3	17.8	74.0	H
7366.500000	47.5	-0.3	26.5	74.0	H
9608.375000	48.8	3.9	25.2	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Corr (dB)	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Polarization
1601.375000	28.3	-14.5	25.7	54.0	H
4803.750000	50.8	-6.3	3.2	54.0	H
7366.500000	35.3	-0.3	18.7	54.0	H
9608.375000	37.8	3.9	16.2	54.0	H



Date: 9/28/2011 - Time: 2:35:17

Tested by:  Reviewed by: _____

Figure 18: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

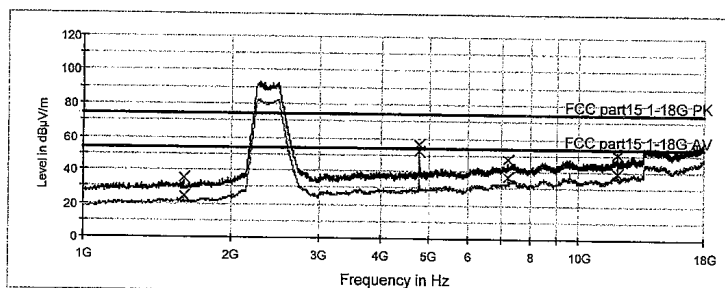
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by II-Ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin-PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1601.375000	35.4	-14.5	38.6	74.0	V
4803.750000	56.2	-6.3	17.8	74.0	V
7205.000000	47.6	-1.2	26.4	74.0	V
12011.750000	50.4	3.5	23.6	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin-AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1601.375000	24.6	-14.5	29.4	54.0	V
4803.750000	50.4	-6.3	3.6	54.0	V
7205.000000	37.0	-1.2	17.0	54.0	V
12011.750000	39.6	3.5	14.4	54.0	V



Date: 9/28/2011 - Time: 2:41:58

Tested by: _____ Reviewed by: _____

Figure 19: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 26GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

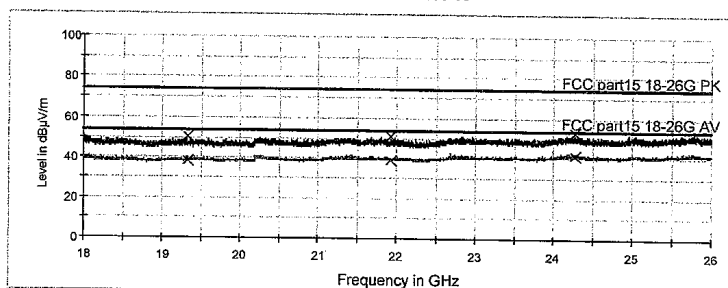
Subrange 1

Frequency Range: 18GHz-26GHz

Receiver: TUV 3160-09

Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
19339.000000	50.3	3.6	23.7	74.0	H
21924.000000	50.9	4.3	23.1	74.0	H
24273.000000	53.4	4.9	20.6	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
19339.000000	38.4	3.6	15.6	54.0	H
21924.000000	38.9	4.3	15.1	54.0	H
24273.000000	41.6	4.9	12.4	54.0	H

Date: 9/27/2011 - Time: 1:52:00



Tested by: Reviewed by:

Figure 20: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 26GHz) , GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

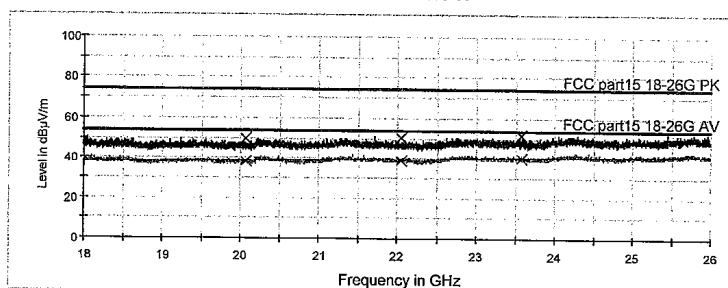
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
20068.000000	49.6	3.9	24.4	74.0	V
22046.000000	50.3	4.3	23.7	74.0	V
23585.000000	51.7	4.7	22.3	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
20068.000000	38.0	3.9	16.0	54.0	V
22046.000000	38.8	4.3	15.2	54.0	V
23585.000000	40.0	4.7	14.0	54.0	V



Date: 9/27/2011 - Time: 1:35:59

Tested by:  Reviewed by: _____

Figure 21: Test figure of spurious emissions, mode A.3, Horizontal polarity (9kHz – 30MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

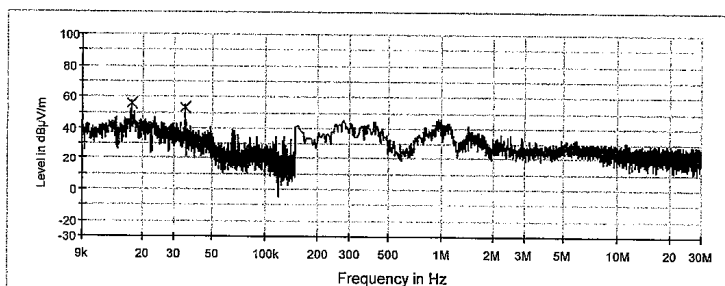
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.017160	—	55.4	20.6	H
0.034840	—	53.2	20.2	H
0.974000	42.2	—	20.3	H
5.846000	28.2	—	21.9	H



Date: 25/09/2011 - Time: 10:40:34

Tested by:  Reviewed by: _____

Figure 22: Test figure of spurious emissions, mode A.3, Vertical polarity (9kHz – 30MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

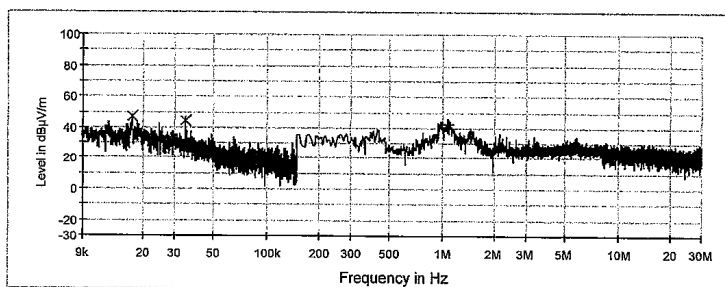
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr (dB)	Polarization
0.017160	---	46.9	20.6	V
0.034840	---	44.6	20.2	V
1.066000	42.6	---	20.3	V
5.866000	28.4	---	21.9	V



Date: 25/09/2011 - Time: 10:37:54

Tested by:  Reviewed by: _____

Figure 23: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 300MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

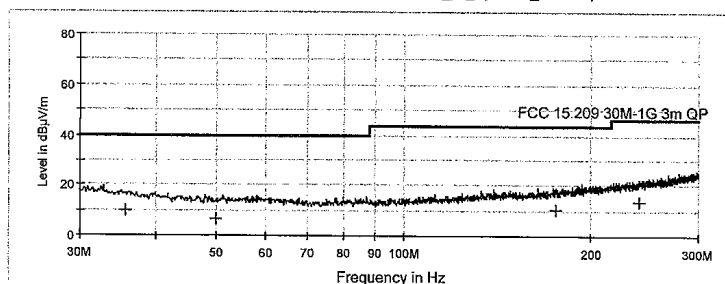
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
35.700000	10.0	13.4	30.0	40.0	V
49.980000	6.4	10.8	33.6	40.0	V
176.340000	10.4	14.7	33.1	43.5	V
240.360000	13.5	18.2	32.5	46.0	V

Date: 9/26/2011 - Time: 5:30:37



Tested by: _____ Reviewed by: _____

Figure 24: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 300MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

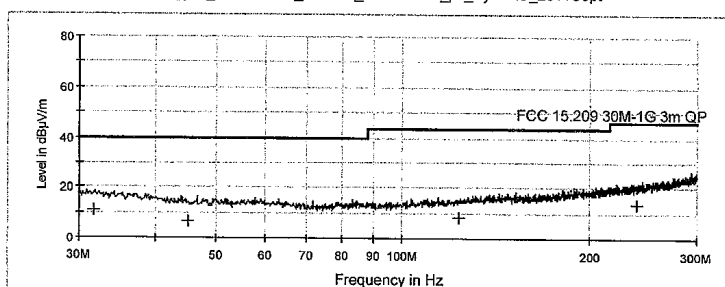
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
31.740000	11.0	14.3	29.0	40.0	V
45.240000	6.6	11.2	33.4	40.0	V
123.720000	8.0	11.9	35.5	43.5	V
239.280000	13.8	18.2	32.2	46.0	V

Date: 9/26/2011 - Time: 5:28:52



Tested by: _____ Reviewed by: _____

Figure 25: Test figure of spurious emissions, mode A.3, Horizontal polarity (300MHz – 1GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

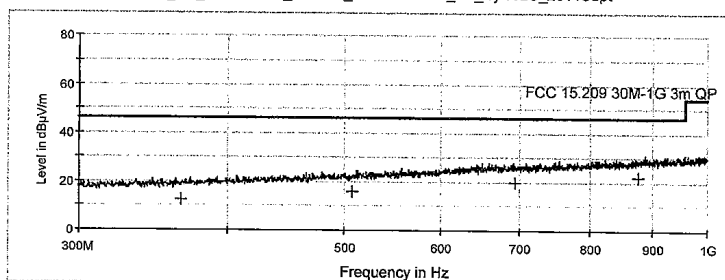
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
365.100000	12.3	16.0	33.7	46.0	H
507.180000	15.8	19.0	30.2	46.0	H
594.440000	19.6	22.4	26.4	46.0	H
876.480000	21.7	24.7	24.3	46.0	H

Date: 9/27/2011 - Time: 9:51:11

Tested by:   Reviewed by: _____

Figure 26: Test figure of spurious emissions, mode A.3, Vertical polarity (300MHz – 1GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

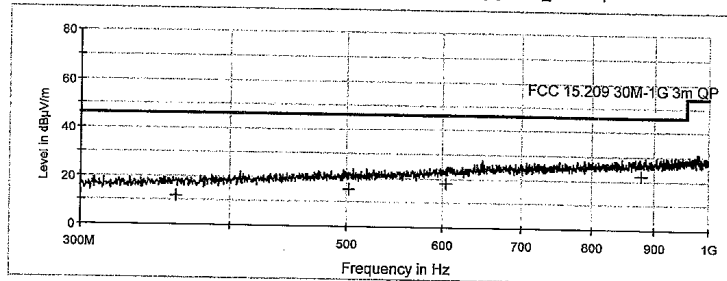
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBuV/m)	Polarization
360.900000	12.0	15.9	34.0	46.0	V
501.960000	15.1	18.9	30.9	46.0	V
605.220000	18.0	20.8	28.0	46.0	V
879.240000	21.8	24.7	24.2	46.0	V

Date: 9/27/2011 - Time: 10:08:31



Tested by:



Reviewed by: _____

Figure 27: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz –18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

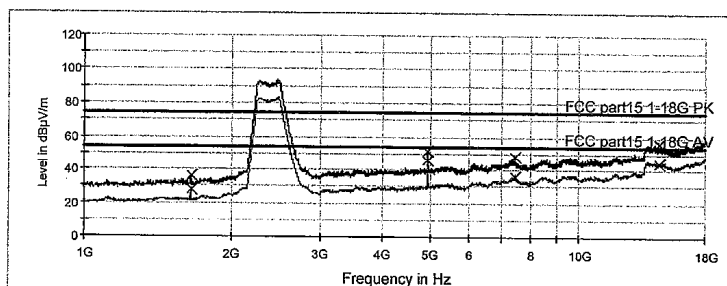
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin-PK+ (dB)	Limit-PK+ (dBuV/m)	Polarization
1652.375000	36.2	-14.1	37.8	74.0	H
4958.875000	51.6	-6.7	22.4	74.0	H
7440.875000	47.8	0.3	26.2	74.0	H
14532.000000	55.9	8.0	18.1	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin-AVG (dB)	Limit-AVG (dBuV/m)	Polarization
1652.375000	27.8	-14.1	26.2	54.0	H
4958.875000	45.4	-6.7	8.6	54.0	H
7440.875000	36.0	0.3	18.0	54.0	H
14532.000000	43.7	8.0	10.3	54.0	H



Date: 9/28/2011 - Time: 3:03:59

Tested by: _____ Reviewed by: _____

Figure 28: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

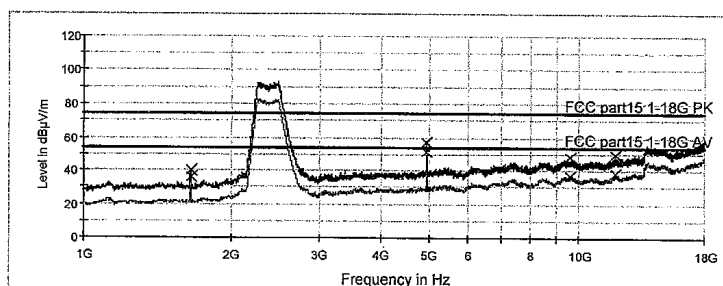
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1652.375000	40.3	-14.1	33.7	74.0	V
4958.875000	56.8	-6.7	17.2	74.0	V
9614.750000	48.1	3.9	25.9	74.0	V
11886.375000	49.7	3.6	24.3	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1652.375000	36.2	-14.1	17.8	54.0	V
4958.875000	50.6	-6.7	3.4	54.0	V
9614.750000	36.5	3.9	17.5	54.0	V
11886.375000	38.0	3.6	16.0	54.0	V

Date: 9/28/2011 - Time: 3:10:14

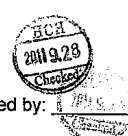
Tested by:  Reviewed by: _____

Figure 29: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz – 26GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1

Frequency Range:

18GHz-26GHz

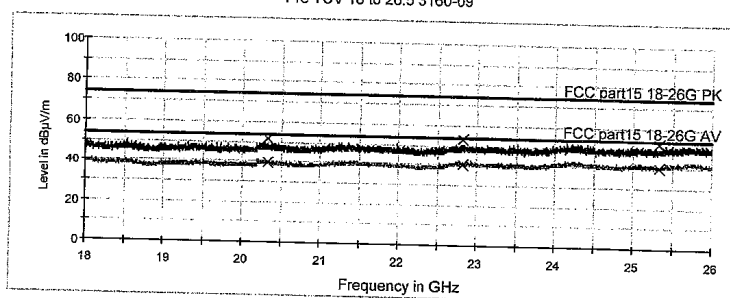
Receiver:

TUV 3160-09

Transducer:

TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
20335.000000	51.5	3.9	22.5	74.0	H
22825.000000	53.0	4.6	21.0	74.0	H
25328.000000	52.3	5.5	21.8	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
20335.000000	39.4	3.9	14.6	54.0	H
22825.000000	40.1	4.6	13.9	54.0	H
25328.000000	40.4	5.5	13.6	54.0	H

Date: 9/27/2011 - Time: 1:57:42



Tested by: Reviewed by:

Figure 30: Test figure of spurious emissions, mode A.3, Vertical polarity (18GHz – 26GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

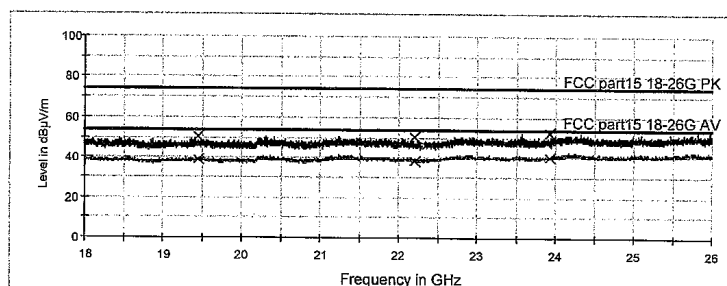
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
19463.000000	50.1	3.6	23.9	74.0	V
22212.000000	50.2	4.4	23.8	74.0	V
23935.000000	52.7	4.8	21.3	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
19463.000000	38.7	3.6	15.3	54.0	V
22212.000000	38.4	4.4	15.6	54.0	V
23935.000000	40.4	4.8	13.6	54.0	V

Date: 9/27/2011 - Time: 1:40:52



Tested by: 

Reviewed by: _____

Figure 31: Test figure of spurious emissions, mode B, Horizontal polarity (9kHz – 30MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

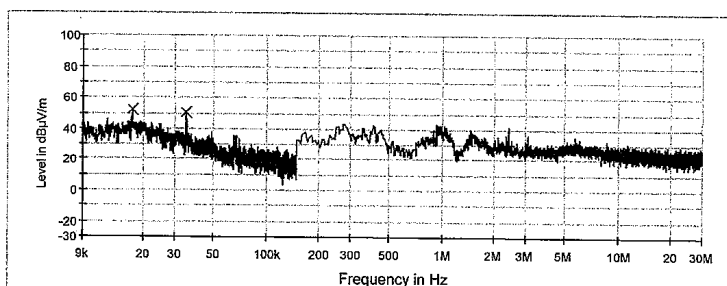
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Corr. (dB)	Polarization
0.017160	---	51.9	20.6	H
0.034840	---	50.8	20.2	H
0.938000	38.7	---	20.3	H
2.398000	30.2	---	20.3	H



Date: 25/09/2011 - Time: 11:14:08

Tested by: _____ Reviewed by: _____

**Figure 32: Test figure of spurious emissions, mode B, Vertical polarity
(9kHz – 30MHz), GFSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

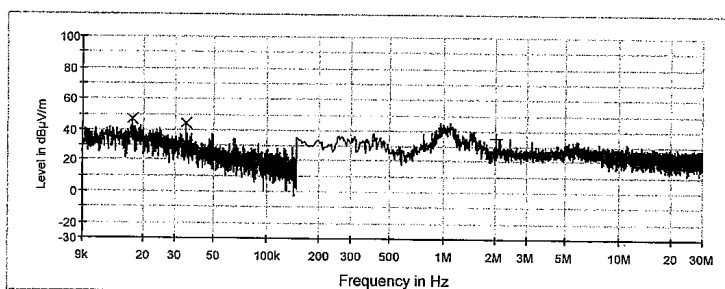
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table_Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.017160	—	46.8	20.6	V
0.034840	—	44.7	20.2	V
1.098000	41.7	—	20.3	V
2.010000	35.6	—	20.2	V



Date: 25/09/2011 - Time: 11:26:08

Tested by:  Reviewed by: _____

Figure 33: Test figure of spurious emissions, mode B, Horizontal polarity (30MHz – 300MHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

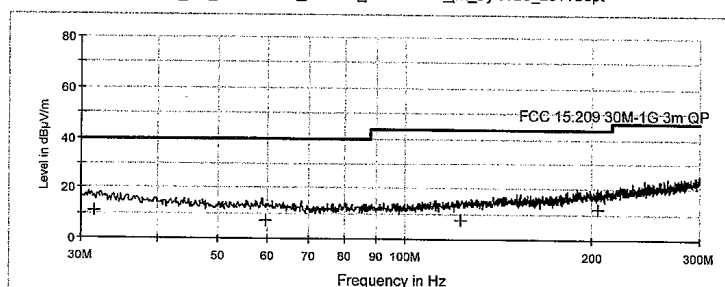
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
31.620000	10.9	14.4	29.1	40.0	H
59.820000	7.2	10.9	32.8	40.0	H
123.540000	7.8	11.8	35.7	43.5	H
205.500000	11.9	16.3	31.6	43.5	H

Date: 9/26/2011 - Time: 5:14:18

Tested by:   Reviewed by: _____

**Figure 34: Test figure of spurious emissions, mode B, Vertical polarity
(30MHz – 300MHz), GFSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

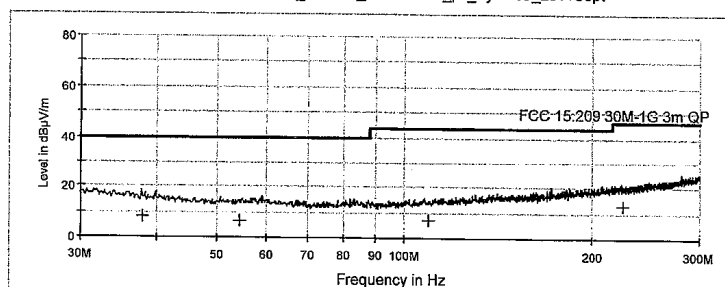
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
37.980000	8.0	12.7	32.0	40.0	V
54.420000	6.7	10.9	33.3	40.0	V
109.500000	7.1	11.3	36.4	43.5	V
225.060000	13.0	17.5	33.0	46.0	V

Date: 9/26/2011 - Time: 5:16:24

Tested by:   Reviewed by: _____

Figure 35: Test figure of spurious emissions, mode B, Horizontal polarity (300MHz – 1GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

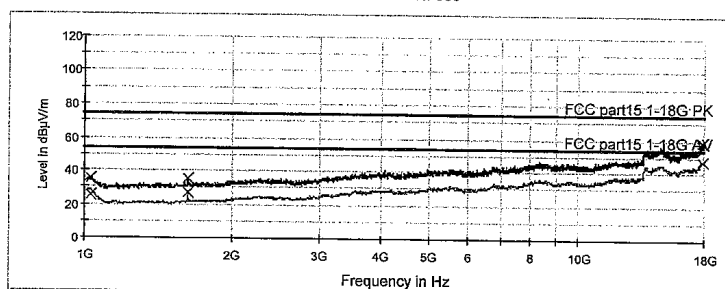
Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1

Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1031.875000	34.9	-17.3	39.1	74.0	H
1626.875000	35.4	-15.0	38.6	74.0	H
17864.000000	59.1	10.5	14.9	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1031.875000	25.7	-17.3	28.3	54.0	H
1626.875000	26.8	-15.0	27.2	54.0	H
17864.000000	47.2	10.5	6.8	54.0	H



Date: 9/28/2011 - Time: 4:35:07

Tested by:  Reviewed by: _____

Figure 36: Test figure of spurious emissions, mode B, Vertical polarity (300MHz – 1GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

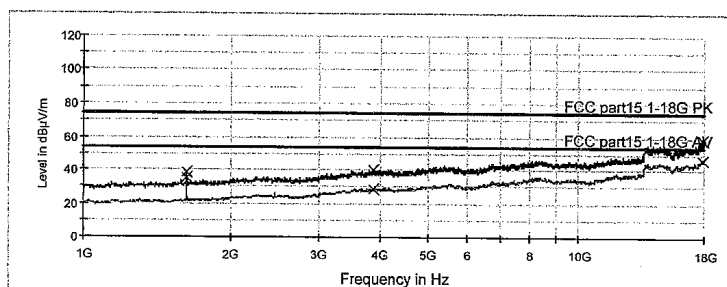
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1626.875000	38.4	-15.0	35.6	74.0	V
3873.000000	40.0	-8.2	34.0	74.0	V
17844.875000	58.9	10.5	15.1	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1626.875000	35.5	-15.0	18.5	54.0	V
3873.000000	28.4	-8.2	25.6	54.0	V
17844.875000	46.8	10.5	7.2	54.0	V



Date: 9/28/2011 - Time: 4:30:39

Tested by:  Reviewed by: _____

Figure 37: Test figure of spurious emissions, mode B, Horizontal polarity (1GHz – 18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

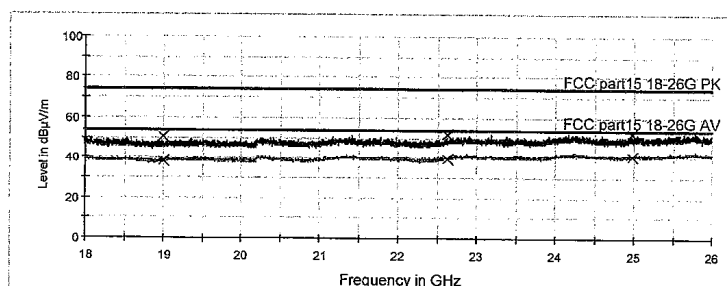
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by Li-Ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
18996.000000	50.0	3.5	24.0	74.0	H
22634.000000	51.4	4.5	22.6	74.0	H
24983.000000	52.7	5.8	21.3	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
18996.000000	38.0	3.5	16.0	54.0	H
22634.000000	39.4	4.5	14.6	54.0	H
24983.000000	40.7	5.8	13.3	54.0	H

Date: 9/27/2011 - Time: 1:49:44

Tested by:  Reviewed by: _____

Figure 38: Test figure of spurious emissions, mode B, Vertical polarity (1GHz – 18GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

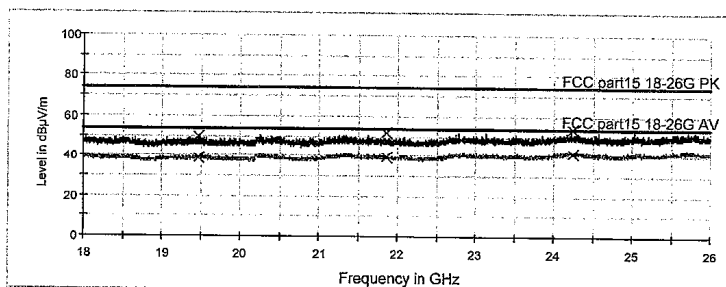
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
19482.000000	49.9	3.6	24.1	74.0	V
21859.000000	51.4	4.3	22.6	74.0	V
24247.000000	53.6	4.9	20.4	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
19482.000000	38.6	3.6	15.4	54.0	V
21859.000000	39.4	4.3	14.6	54.0	V
24247.000000	41.6	4.9	12.4	54.0	V

Date: 9/27/2011 - Time: 1:43:55



Tested by: Checked Reviewed by: _____

Figure 39: Test figure of spurious emissions, mode B, Horizontal polarity (18GHz – 26GHz), GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

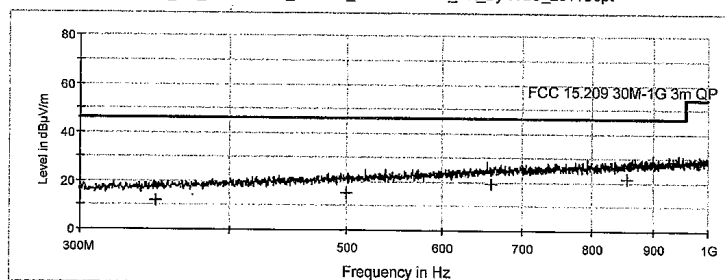
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
347.940000	11.9	15.6	34.1	46.0	H
500.220000	15.4	18.9	30.6	46.0	H
659.820000	19.3	21.9	26.7	46.0	H
856.140000	21.4	24.3	24.6	46.0	H



Date: 9/27/2011 - Time: 9:29:35

Tested by: _____ Reviewed by: _____

**Figure 40: Test figure of spurious emissions, mode B, Vertical polarity
(18GHz – 26GHz), GFSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

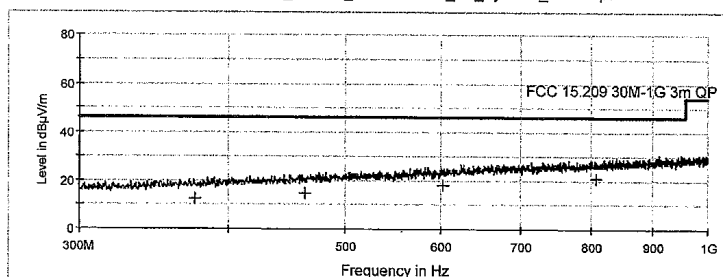
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH601[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (BDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
375.600000	12.6	16.3	33.4	46.0	V
463.080000	14.6	18.2	31.4	46.0	V
603.120000	18.1	20.7	27.9	46.0	V
807.180000	21.0	23.7	25.0	46.0	V



Date: 9/27/2011 - Time: 9:24:20

Tested by: _____ Reviewed by: _____

Figure 41: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal, GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

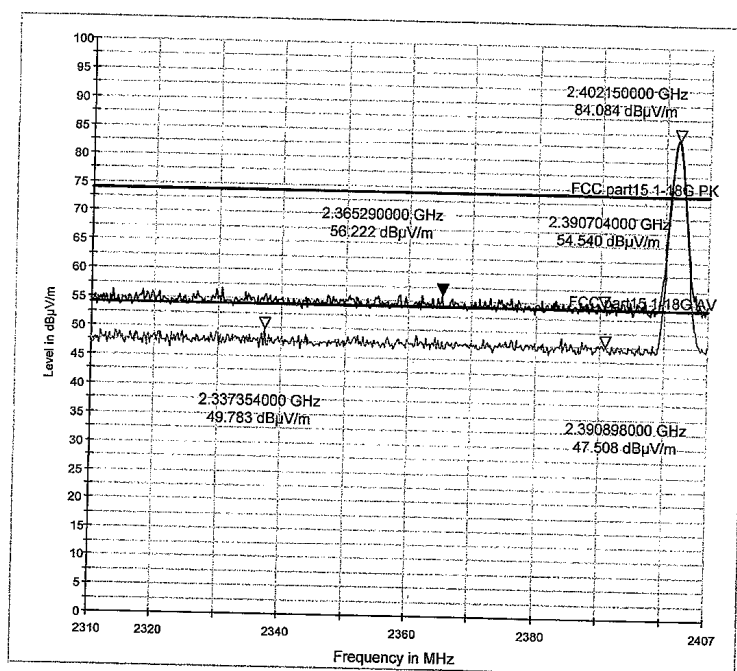
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH501[TX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ Low Channel (BDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022076 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 2GHz-3GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/27/2011 - Time: 4:10:08

Tested by: _____ Reviewed by: _____

Figure 42: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical, GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

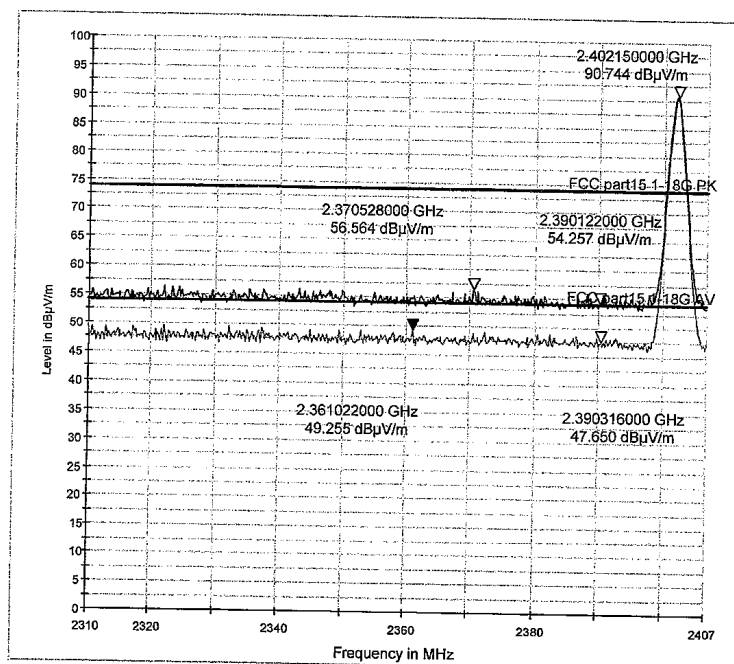
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH501 [TX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ Low Channel (BDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022076 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/27/2011 - Time: 4:07:48

Tested by:



Reviewed by: _____

Figure 43: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal, GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

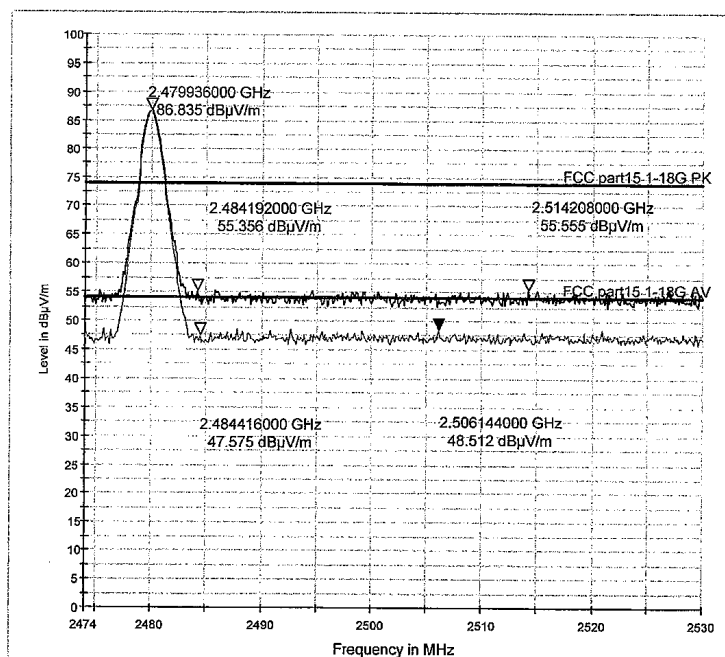
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH501 [TX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ High Channel (BDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022076 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/27/2011 - Time: 3:59:46

Tested by:  2011.9.28
Reviewed by:  2011.9.27

Figure 44: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical, GFSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

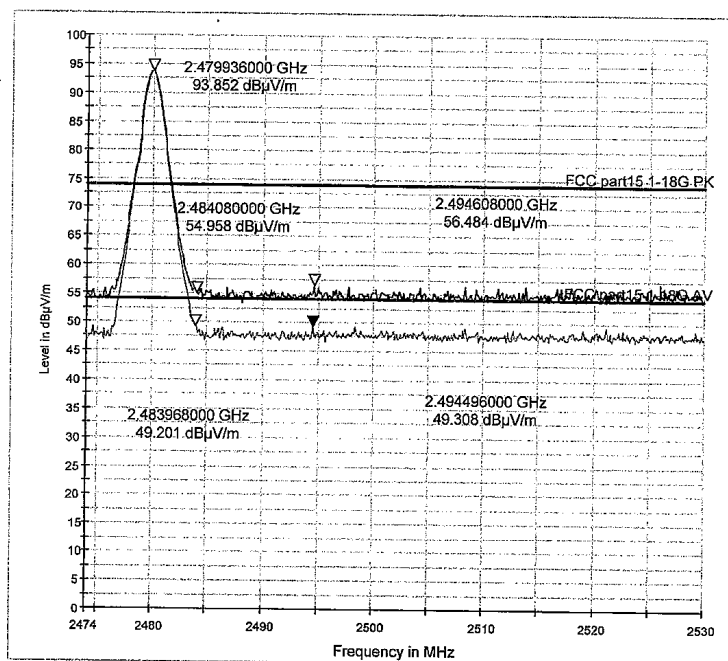
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH501 [TX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ High Channel (BDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by Li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022076 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/27/2011 - Time: 4:02:24

Tested by: _____ Reviewed by: _____

Figure 45: Test figure of spurious emissions, mode A.1, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

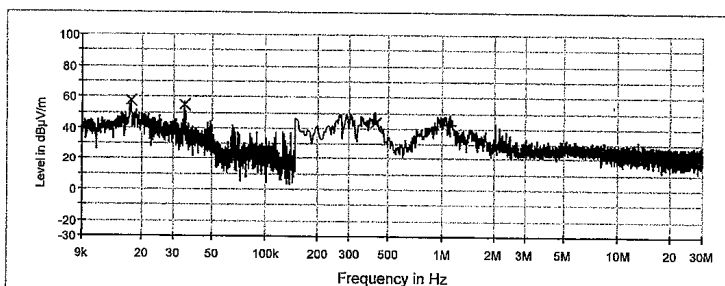
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.017160	—	58.0	20.6	H
0.034840	—	55.3	20.2	H
0.422000	—	43.4	20.7	H
1.114000	42.5	—	20.3	H
2.018000	30.4	—	20.2	H



Date: 25/09/2011 - Time: 14:10:48

Tested by: _____ Reviewed by: _____

Figure 46: Test figure of spurious emissions, mode A.1, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

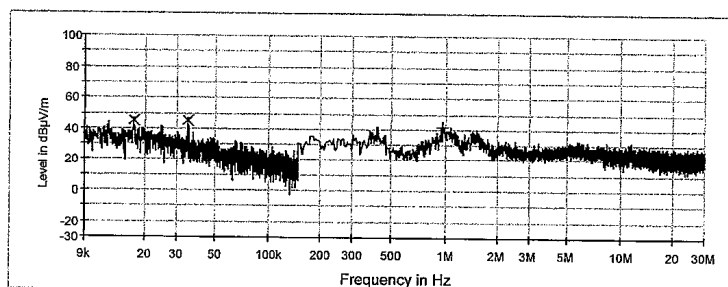
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.017160	—	45.6	20.6	V
0.034920	—	44.9	20.2	V
0.974000	41.3	—	20.3	V
5.866000	28.5	—	21.9	V



Date: 25/09/2011 - Time: 14:05:27

Tested by:  Reviewed by: _____

Figure 47: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

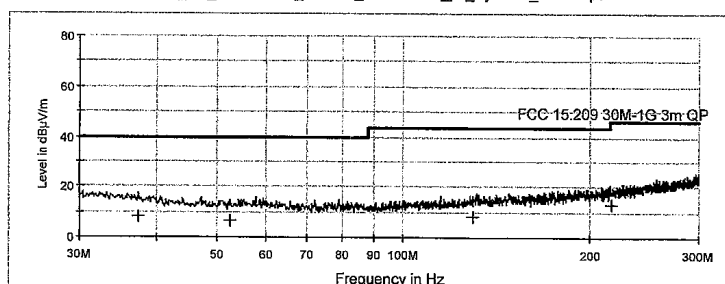
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
37.320000	8.4	12.9	31.6	40.0	H
52.560000	6.4	10.8	33.6	40.0	H
130.020000	8.3	12.4	35.2	43.5	H
218.040000	13.0	17.2	33.0	46.0	H



Date: 9/26/2011 - Time: 4:53:47

Tested by:  Reviewed by: _____

Figure 48: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

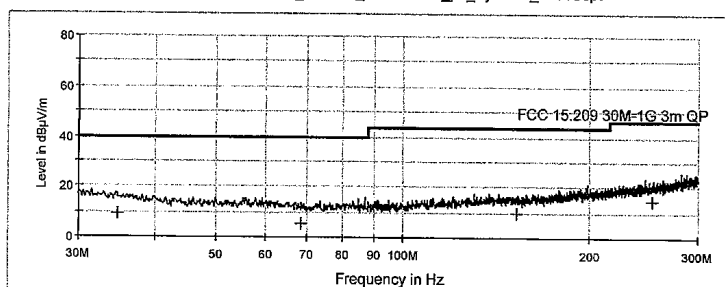
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
34.740000	9.3	13.6	30.7	40.0	V
68.760000	5.7	9.7	34.3	40.0	V
152.700000	9.6	13.6	33.9	43.5	V
253.680000	14.6	19.0	31.4	46.0	V

Date: 9/26/2011 - Time: 4:55:43

Tested by:   Reviewed by: _____

Figure 49: Test figure of spurious emissions, mode A.1, Horizontal polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

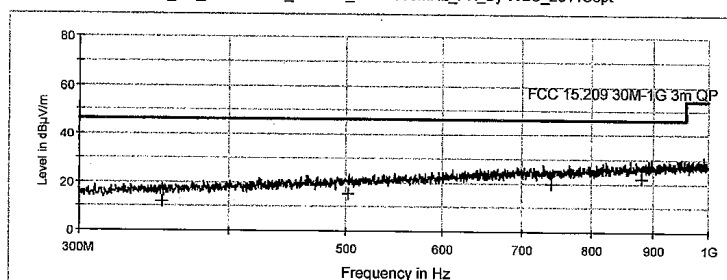
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit-QPK (dBµV/m)	Polarization
352.140000	11.8	15.7	34.2	46.0	H
501.960000	15.1	18.9	30.9	46.0	H
740.280000	19.9	22.8	26.1	46.0	H
881.340000	21.8	24.7	24.2	46.0	H

Date: 9/27/2011 - Time: 10:18:29



Tested by: _____ Reviewed by: _____

Figure 50: Test figure of spurious emissions, mode A.1, Vertical polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

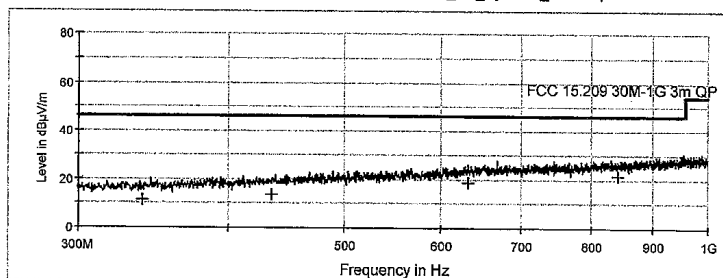
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
339.540000	11.5	15.4	34.5	46.0	V
434.750000	13.6	17.6	32.4	46.0	V
632.160000	18.5	21.4	27.5	46.0	V
843.180000	21.2	24.1	24.8	46.0	V

Date: 9/27/2011 - Time: 10:25:31

Tested by:  Reviewed by: _____

Figure 51: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz –18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

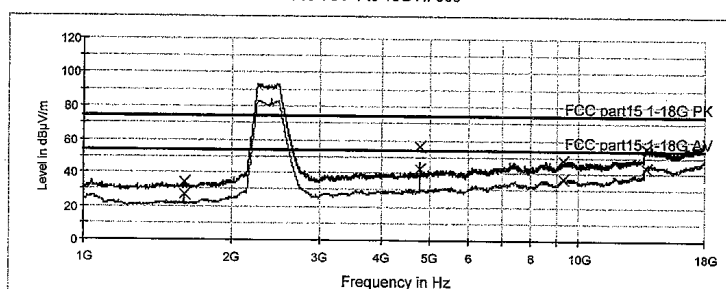
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by Li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1601.375000	34.0	-14.5	40.0	74.0	H
4803.750000	56.0	-6.3	18.0	74.0	H
9313.000000	48.1	3.5	25.9	74.0	H
13786.125000	55.4	7.6	18.6	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1601.375000	26.7	-14.5	27.3	54.0	H
4803.750000	42.1	-6.3	11.9	54.0	H
9313.000000	36.6	3.5	17.5	54.0	H
13786.125000	43.1	7.6	10.9	54.0	H

Date: 9/28/2011 - Time: 4:02:43

Tested by:  2011.9.28
Reviewed by: _____

Figure 52: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1

Frequency Range:

1GHz-18GHz

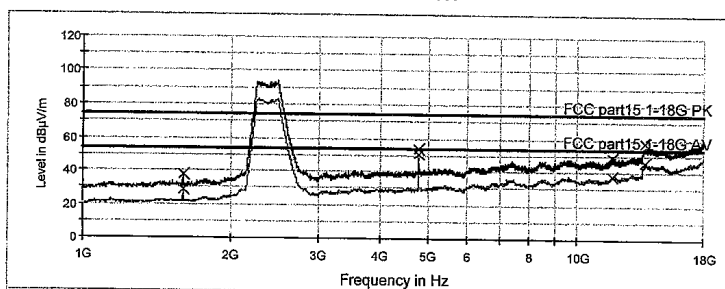
Receiver:

TUV SAC HF906

Transducer:

TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin PK* (dB)	Limit PK* (dBµV/m)	Polarization
1601.375000	37.2	-14.5	36.8	74.0	V
4803.750000	54.2	-6.3	19.8	74.0	V
11786.500000	49.1	3.7	24.9	74.0	V
13796.750000	57.6	7.7	16.4	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin AV* (dB)	Limit AV* (dBµV/m)	Polarization
1601.375000	28.9	-14.5	25.1	54.0	V
4803.750000	50.4	-6.3	3.6	54.0	V
11786.500000	37.4	3.7	16.6	54.0	V
13796.750000	45.3	7.7	8.7	54.0	V



Date: 9/28/2011 - Time: 3:57:13

Tested by: _____ Reviewed by: _____

Figure 53: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz – 26GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

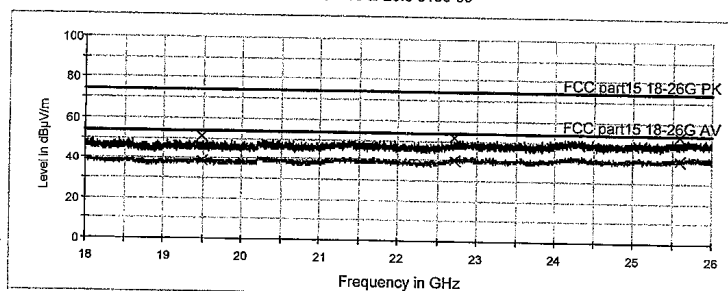
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin-PK+ (dB)	Limit-PK+ (dBµV/m)	Polarization
19487.000000	51.2	3.6	22.8	74.0	H
22723.000000	51.8	4.5	22.2	74.0	H
25598.000000	52.9	5.4	21.1	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin-AVG (dB)	Limit-AVG (dBµV/m)	Polarization
19487.000000	38.7	3.6	15.3	54.0	H
22723.000000	40.1	4.5	13.9	54.0	H
25598.000000	41.1	5.4	12.9	54.0	H

Date: 9/27/2011 - Time: 2:07:05

Tested by:  Reviewed by: _____

Figure 54: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 26GHz), V Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1

Frequency Range:

18GHz-26GHz

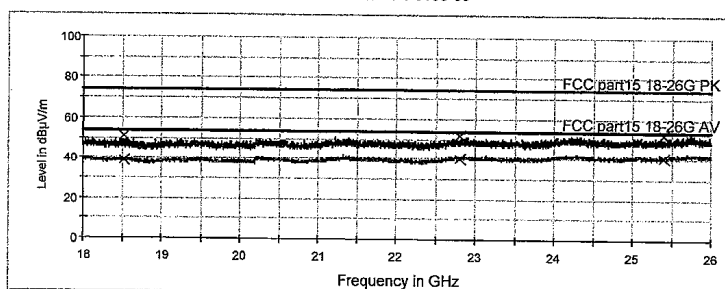
Receiver:

TUV 3160-09

Transducer:

TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin PK+ (dB)	Limit PK+ (dBuV/m)	Polarization
18518.000000	50.8	3.3	23.2	74.0	V
22808.000000	51.9	4.6	22.1	74.0	V
25397.000000	52.1	5.2	21.9	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin AVG (dB)	Limit AVG (dBuV/m)	Polarization
18518.000000	38.9	3.3	15.1	54.0	V
22808.000000	40.3	4.6	13.7	54.0	V
25397.000000	40.6	5.2	13.4	54.0	V



Date: 9/27/2011 - Time: 2:33:16

Tested by:



Reviewed by: _____

Figure 55: Test figure of spurious emissions, mode A.2, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

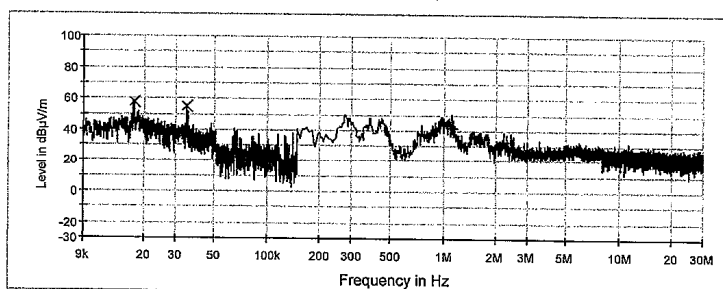
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
 Test Item: Bluetooth Stereo Transmitter & Receiver
 Identification: BH501 [TX]
 Test Standard: FCC Part 15
 Test Detail: RE
 Operation Mode: Tx @ Middle Channel (EDR)
 Climate Condition: 23 °C; 50 %RH; 101 kPa.
 Test Voltage/ Freq: Power by li-ion battery
 Receipt No: 163082035 100, 200
 Report No: 17022076 001
 Result: Pass
 Comment: Test distance is 3m, Horizontal

 Subrange 1
 Frequency Range: 9kHz - 30MHz
 Receiver: TUV ESCI 3
 Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr (dB)	Polarization
0.017400	---	57.1	20.7	H
0.034920	---	55.2	20.2	H
1.110000	41.7	---	20.3	H
2.202000	32.4	---	20.2	H



Date: 25/09/2011 - Time: 13:55:47

Tested by:  Reviewed by: _____

Figure 56: Test figure of spurious emissions, mode A.2, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

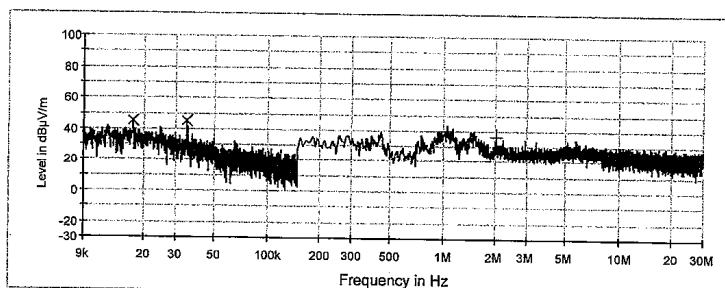
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100; 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	Quasi Peak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.017160	—	45.3	20.6	V
0.034920	—	44.8	20.2	V
1.062000	40.2	—	20.3	V
2.018000	36.7	—	20.2	V



Date: 25/09/2011 - Time: 14:00:49

Tested by: Reviewed by:

Figure 57: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

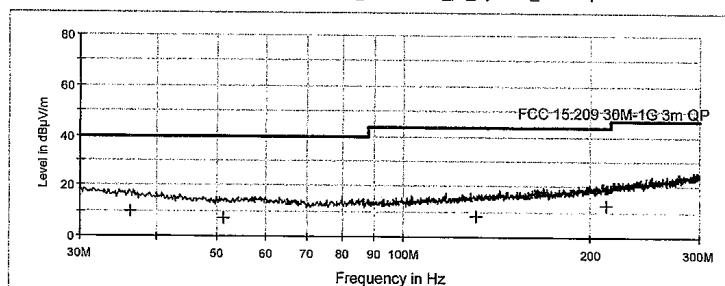
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBuV/m)	Polarization
36.240000	9.8	13.2	30.2	40.0	H
51.180000	7.1	10.8	32.9	40.0	H
130.980000	8.3	12.4	35.2	43.5	H
213.600000	12.4	16.7	31.1	43.5	H

Date: 9/26/2011 - Time: 5:01:25

Tested by:  2011.9.27
Reviewed by: _____

Figure 58: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

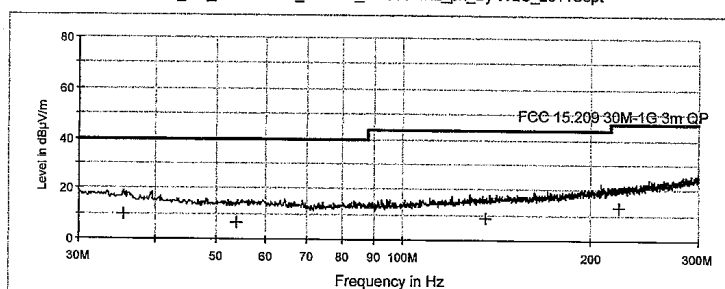
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit: QPK (dBµV/m)	Polarization
35.520000	9.9	13.4	30.1	40.0	V
53.880000	6.4	10.8	33.6	40.0	V
135.720000	8.9	12.6	34.6	43.5	V
223.440000	12.9	17.5	33.1	46.0	V

Date: 9/26/2011 - Time: 4:58:39

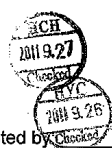
Tested by:  Reviewed by: _____

Figure 59: Test figure of spurious emissions, mode A.2, Horizontal polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

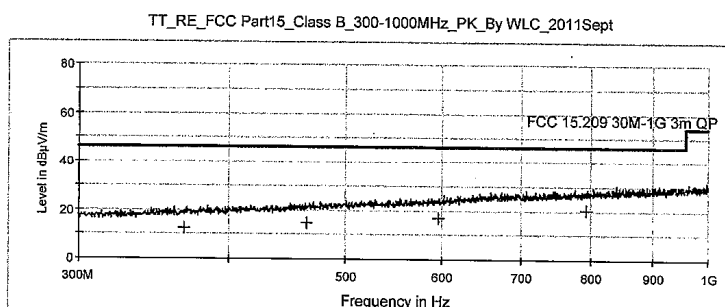
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit QPK (dBµV/m)	Polarization
366.840000	12.3	16.1	33.7	46.0	H
464.520000	14.5	18.3	31.5	46.0	H
597.840000	17.2	20.6	28.8	46.0	H
792.780000	20.5	23.5	25.5	46.0	H

Date: 9/27/2011 - Time: 10:16:20

Tested by:   Reviewed by: _____

Figure 60: Test figure of spurious emissions, mode A.2, Vertical polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

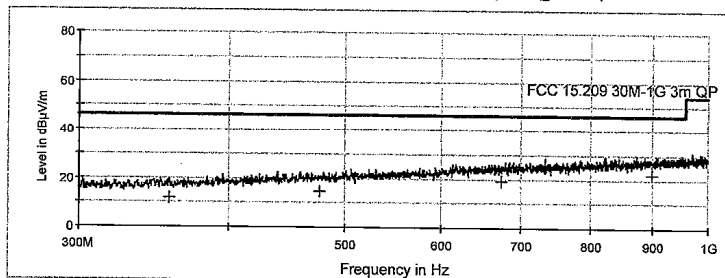
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
356.700000	11.9	15.8	34.1	46.0	V
476.760000	14.7	18.5	31.3	46.0	V
674.520000	19.3	22.2	26.7	46.0	V
899.220000	21.9	24.9	24.1	46.0	V



Date: 9/27/2011 - Time: 10:23:19

Tested by: _____ Reviewed by: _____

Figure 61: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

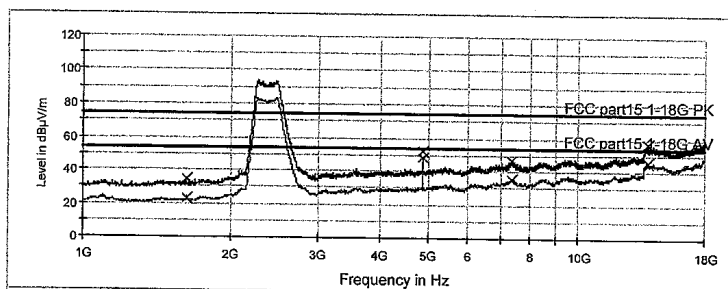
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by Li-Ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin PK+ (dB)	Limit - PK+ (dBuV/m)	Polarization
1626.875000	34.4	-14.2	39.6	74.0	H
4880.250000	52.6	-6.5	21.4	74.0	H
7338.875000	46.8	-0.4	27.2	74.0	H
13805.250000	57.2	7.8	16.8	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Polarization
1626.875000	22.5	-14.2	31.5	54.0	H
4880.250000	48.4	-6.5	5.6	54.0	H
7338.875000	35.2	-0.4	18.8	54.0	H
13805.250000	45.4	7.8	8.6	54.0	H

Date: 9/28/2011 - Time: 3:47:29

Tested by:

Reviewed by: _____

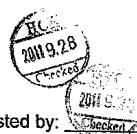


Figure 62: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

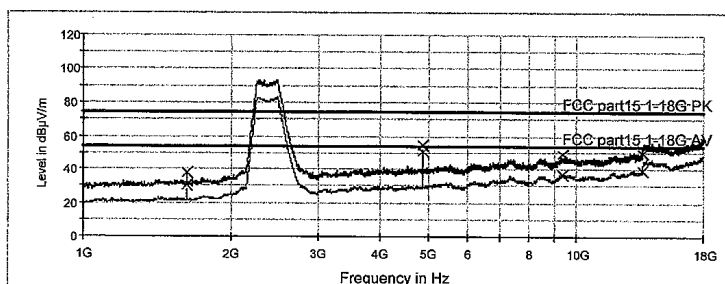
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin PK+ (dB)	Limit PK+ (dBuV/m)	Polarization
1626.875000	37.4	-14.2	36.6	74.0	V
4882.375000	54.9	-6.5	19.1	74.0	V
9366.125000	48.6	3.5	25.4	74.0	V
13584.250000	50.2	5.0	23.8	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin AVG (dB)	Limit AVG (dBuV/m)	Polarization
1626.875000	30.3	-14.2	23.7	54.0	V
4882.375000	50.9	-6.5	3.1	54.0	V
9366.125000	36.6	3.5	17.4	54.0	V
13584.250000	38.8	5.0	15.2	54.0	V



Date: 9/28/2011 - Time: 3:51:59

Tested by: _____ Reviewed by: _____

Figure 63: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 26GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

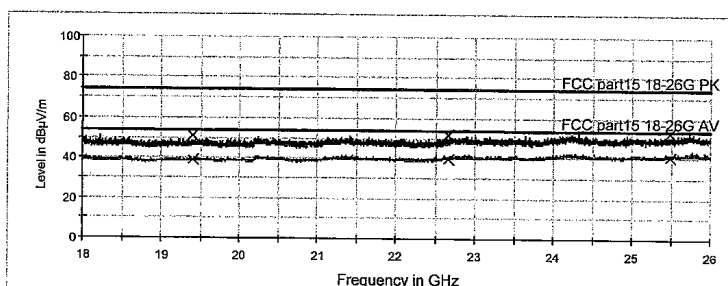
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin-PK+ (dB)	Limit - PK+ (dBuV/m)	Polarization
19401.000000	51.0	3.6	23.0	74.0	H
22667.000000	51.8	4.5	22.2	74.0	H
25495.000000	53.3	5.3	20.7	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin-AVG (dB)	Limit - AVG (dBuV/m)	Polarization
19401.000000	38.7	3.6	15.3	54.0	H
22667.000000	39.7	4.5	14.3	54.0	H
25495.000000	41.1	5.3	12.9	54.0	H

Date: 9/27/2011 - Time: 2:17:27

Tested by:   Reviewed by: _____

Figure 64: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 26GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

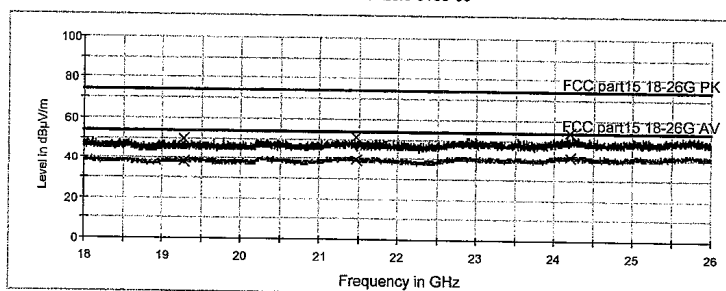
Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1

Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
19278.000000	49.9	3.5	24.1	74.0	V
21469.000000	51.3	4.2	22.7	74.0	V
24208.000000	53.5	4.9	20.5	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
19278.000000	38.3	3.5	15.7	54.0	V
21469.000000	39.7	4.2	14.3	54.0	V
24208.000000	41.6	4.9	12.4	54.0	V

Date: 9/27/2011 - Time: 2:31:37

Tested by:  Reviewed by: _____

Figure 65: Test figure of spurious emissions, mode A.3, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

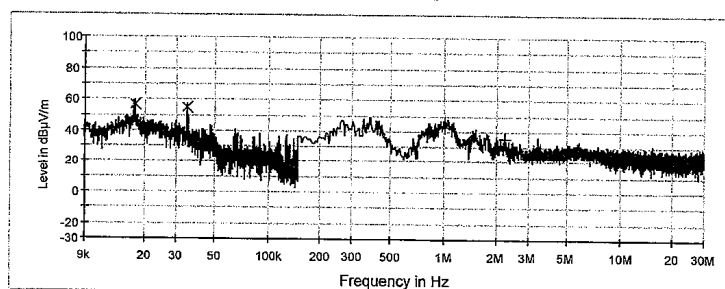
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
 Test Item: Bluetooth Stereo Transmitter & Receiver
 Identification: BH501 [TX]
 Test Standard: FCC Part 15
 Test Detail: RE
 Operation Mode: Tx @ High Channel (EDR)
 Climate Condition: 23 °C; 50 %RH; 101 kPa.
 Test Voltage/ Freq: Power by li-ion battery
 Receipt No: 163082035 100, 200
 Report No: 17022076 001
 Result: Pass
 Comment: Test distance is 3m, Horizontal

 Subrange 1
 Frequency Range: 9kHz - 30MHz
 Receiver: TUV ESCI 3
 Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Corr. (dB)	Polarization
0.017400	—	57.0	20.7	H
0.034920	—	55.3	20.2	H
1.022000	42.8	—	20.3	H
2.206000	35.0	—	20.2	H



Date: 25/092011 - Time: 13:51:17

Tested by:  Reviewed by: _____

Figure 66: Test figure of spurious emissions, mode A.3, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

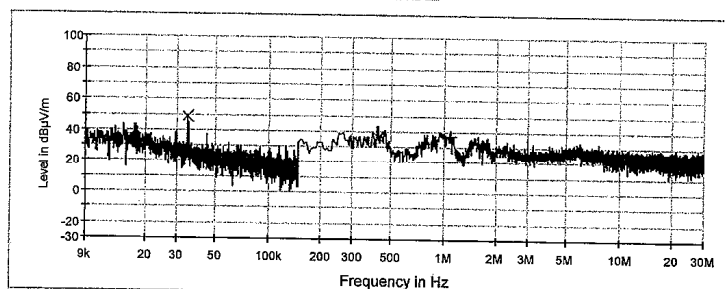
Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1

Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.034920	---	48.7	20.2	V
0.422000	---	36.5	20.7	V
1.102000	37.3	---	20.3	V
5.914000	29.5	---	21.9	V



Date: 25/09/2011 - Time: 13:26:36

Tested by: _____ Reviewed by: _____

Figure 67: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

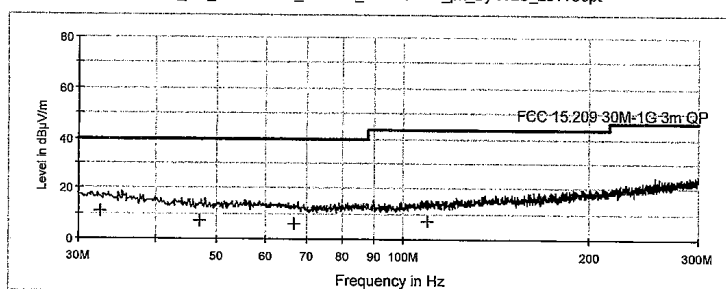
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH501[TX]
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Tx @ High Channel (EDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022076 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	30-300MHz
Receiver:	TUV ESCI 3
Transducer:	TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
32.580000	10.8	14.1	29.2	40.0	H
47.040000	7.2	11.0	32.8	40.0	H
66.720000	6.2	9.8	33.8	40.0	H
109.680000	6.9	11.3	36.6	43.5	H

Date: 9/26/2011 - Time: 5:04:01

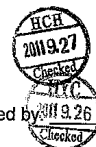
Tested by:  Reviewed by: _____

Figure 68: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

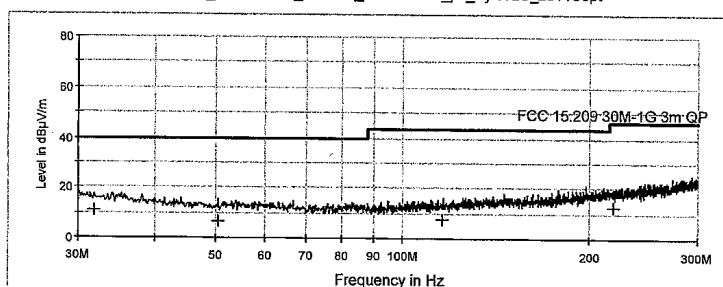
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin-QPK (dB)	Limit-QPK (dBµV/m)	Polarization
31.920000	11.0	14.3	29.0	40.0	V
50.520000	6.8	10.8	33.2	40.0	V
115.980000	7.8	11.5	35.7	43.5	V
219.300000	12.7	17.3	33.3	46.0	V

Date: 9/26/2011 - Time: 5:06:54

Tested by:   Reviewed by: _____

Figure 69: Test figure of spurious emissions, mode A.3, Horizontal polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

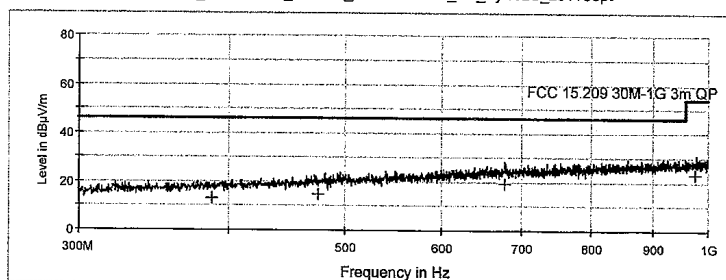
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by Li-Ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
387.180000	12.7	16.6	33.3	46.0	H
475.680000	14.8	18.5	31.2	46.0	H
678.360000	19.4	22.2	26.6	46.0	H
976.560000	22.9	25.8	31.1	54.0	H

Date: 9/27/2011 - Time: 10:20:05

Tested by:   Reviewed by: _____

Figure 70: Test figure of spurious emissions, mode A.3, Vertical polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

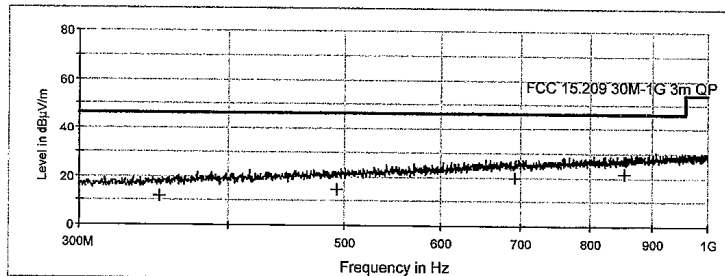
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr (dB)	Margin QPK (dB)	Limit- QPK (dBµV/m)	Polarization
350.760000	11.7	15.7	34.3	46.0	V
492.480000	14.9	18.8	31.1	46.0	V
692.340000	19.5	22.4	26.5	46.0	V
854.400000	21.2	24.3	24.8	46.0	V

Date: 9/27/2011 - Time: 10:27:05



 Tested by: _____ Reviewed by: _____

Figure 71: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz –18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

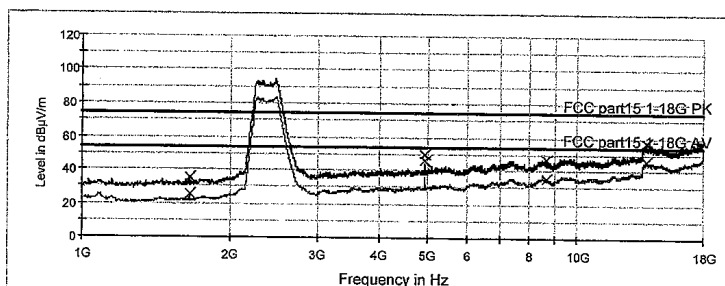
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin-PK* (dB)	Limit-PK* (dBuV/m)	Polarization
1652.375000	35.2	-14.1	38.8	74.0	H
4958.875000	49.9	-6.7	24.1	74.0	H
8673.375000	46.3	1.7	27.7	74.0	H
13822.250000	57.1	8.0	16.9	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin-AVG (dB)	Limit-AVG (dBuV/m)	Polarization
1652.375000	25.0	-14.1	29.0	54.0	H
4958.875000	45.5	-6.7	8.5	54.0	H
8673.375000	34.7	1.7	19.3	54.0	H
13822.250000	45.5	8.0	8.5	54.0	H

Date: 9/28/2011 - Time: 3:41:27

Tested by:

Reviewed by: _____



Figure 72: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

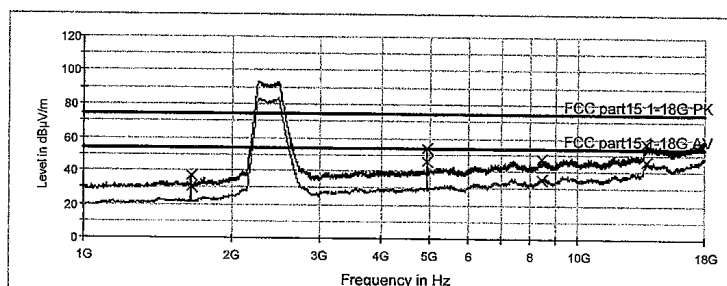
Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by Li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1

Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr (dB)	Margin PK+ (dB)	Limit - PK+ (dBuV/m)	Polarization
1652.375000	37.1	-14.1	36.9	74.0	V
4958.875000	53.6	-6.7	20.4	74.0	V
8448.125000	47.1	1.1	26.9	74.0	V
13803.125000	56.8	7.8	17.2	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr (dB)	Margin AVG (dB)	Limit - AVG (dBuV/m)	Polarization
1652.375000	30.5	-14.1	23.5	54.0	V
4958.875000	45.9	-6.7	8.1	54.0	V
8448.125000	35.4	1.1	18.6	54.0	V
13803.125000	45.5	7.8	8.5	54.0	V



Date: 9/28/2011 - Time: 3:37:18

Tested by: _____ Reviewed by: _____

Figure 73: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz – 26GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

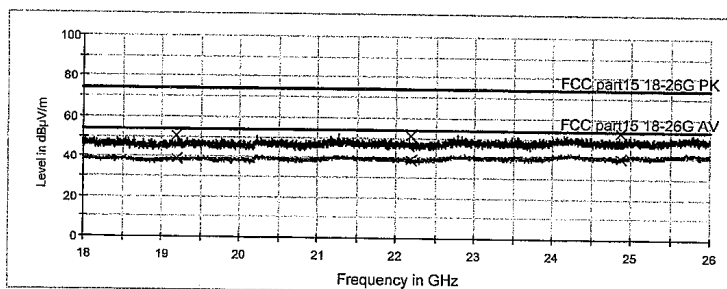
Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1

Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin PK+ (dB)	Limit - PK+ (dBuV/m)	Polarization
19199.000000	50.6	3.5	23.4	74.0	H
22192.000000	50.7	4.4	23.3	74.0	H
24872.000000	52.9	5.1	21.1	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Polarization
19199.000000	38.6	3.5	15.4	54.0	H
22192.000000	38.6	4.4	15.4	54.0	H
24872.000000	40.3	5.1	13.7	54.0	H



Date: 9/27/2011 - Time: 2:20:02

Tested by: _____ Reviewed by: _____

Figure 74: Test figure of spurious emissions, mode A.3, Vertical polarity (18GHz – 26GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

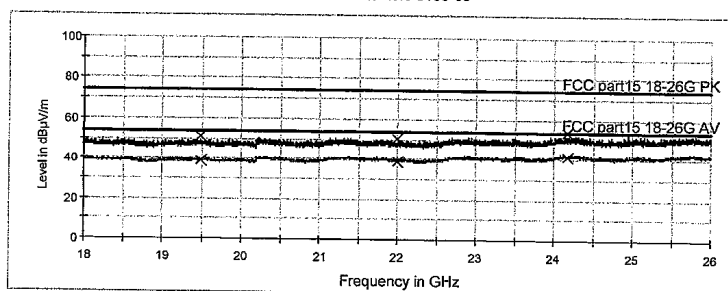
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
19486.000000	51.0	3.6	23.0	74.0	V
21998.000000	50.3	4.3	23.7	74.0	V
24168.000000	53.6	4.9	20.4	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin AV (dB)	Limit - AVG (dBµV/m)	Polarization
19486.000000	38.7	3.6	15.3	54.0	V
21998.000000	38.8	4.3	15.2	54.0	V
24168.000000	41.5	4.9	12.5	54.0	V



Date: 9/27/2011 - Time: 2:29:08

Tested by: _____ Reviewed by: _____

Figure 75: Test figure of spurious emissions, mode B, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

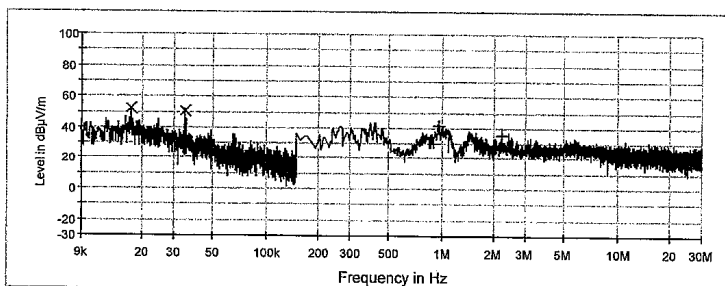
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
0.017160	---	51.9	20.6	H
0.034840	---	50.7	20.2	H
0.970000	41.6	---	20.3	H
2.206000	35.1	---	20.2	H



Date: 25/09/2011 - Time: 14:52:29

Tested by:  Reviewed by: _____

**Figure 76: Test figure of spurious emissions, mode B, Vertical polarity
(9kHz – 30MHz), 8DPSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

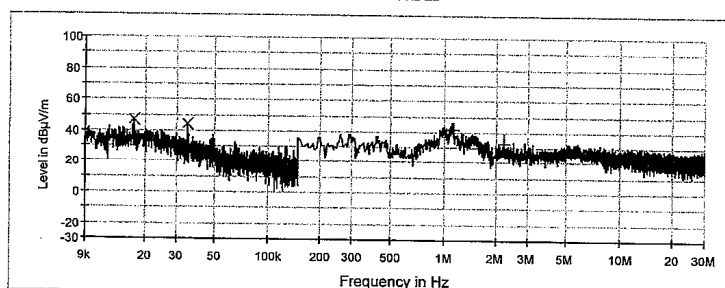
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by II-Ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Corr. (dB)	Polarization
0.017160	---	46.7	20.6	V
0.034840	---	44.0	20.2	V
1.130000	41.6	---	20.3	V
2.206000	32.9	---	20.2	V



Date: 25/09/2011 - Time: 14:56:35

Tested by:  Reviewed by: _____

Figure 77: Test figure of spurious emissions, mode B, Horizontal polarity (30MHz – 300MHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

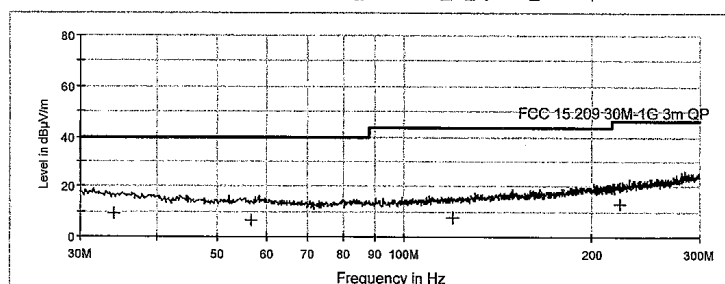
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin-QPK (dB)	Limit - QPK (dBµV/m)	Polarization
34.080000	9.1	13.8	30.9	40.0	H
56.880000	6.7	11.0	33.3	40.0	H
120.480000	7.7	11.6	35.8	43.5	H
223.440000	13.0	17.5	33.0	46.0	H

Date: 9/26/2011 - Time: 5:11:33

Tested by:  Reviewed by: 

**Figure 78: Test figure of spurious emissions, mode B, Vertical polarity
(30MHz – 300MHz), 8DPSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

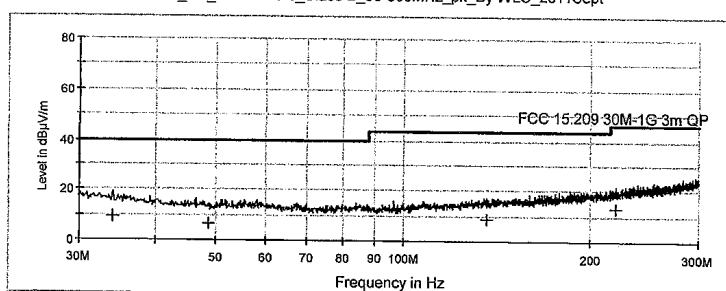
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
34.080000	9.2	13.8	30.8	40.0	V
48.780000	6.4	10.8	33.6	40.0	V
136.680000	8.9	12.6	34.6	43.5	V
221.280000	13.0	17.4	33.0	46.0	V

Date: 9/26/2011 - Time: 5:09:16

Tested by:  Reviewed by: _____

Figure 79: Test figure of spurious emissions, mode B, Horizontal polarity (300MHz – 1GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

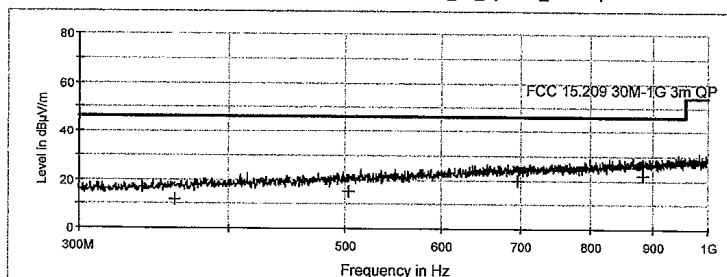
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin-QPK (dB)	Limit-QPK (dBuV/m)	Polarization
360.540000	12.0	15.9	34.0	46.0	H
503.700000	15.1	19.0	30.9	46.0	H
695.880000	19.5	22.4	26.5	46.0	H
882.780000	21.8	24.8	24.2	46.0	H

Date: 9/27/2011 - Time: 10:14:26

Tested by:  2011 9 27
Reviewed by:  2011 9 27

**Figure 80: Test figure of spurious emissions, mode B, Vertical polarity
(300MHz – 1GHz), 8DPSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

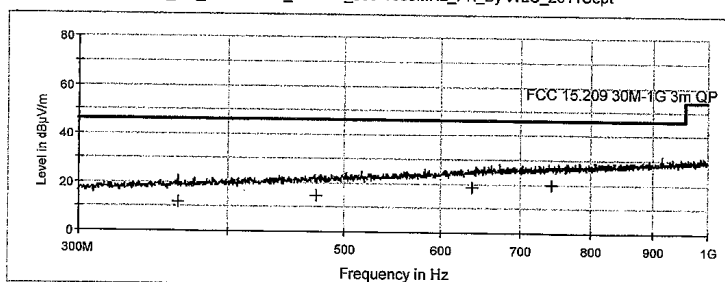
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit QPK (dBuV/m)	Polarization
363.000000	12.1	16.0	33.9	46.0	V
473.940000	14.8	18.5	31.2	46.0	V
638.460000	18.7	21.5	27.3	46.0	V
742.380000	20.0	22.8	26.0	46.0	V



Date: 9/27/2011 - Time: 10:10:53

Tested by:  Reviewed by: _____

Figure 81: Test figure of spurious emissions, mode B, Horizontal polarity (1GHz – 18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

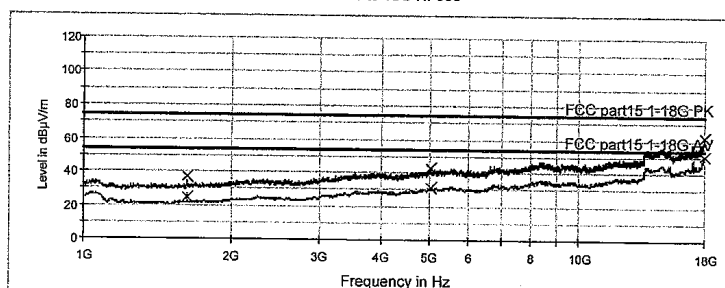
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin-PK* (dB)	Limit-PK* (dBµV/m)	Polarization
1626.875000	36.4	-15.0	37.6	74.0	H
5026.875000	42.4	-6.6	31.6	74.0	H
18000.000000	62.3	11.4	11.7	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin-AVG (dB)	Limit-AVG (dBµV/m)	Polarization
1626.875000	24.5	-15.0	29.5	54.0	H
5026.875000	30.7	-6.6	23.3	54.0	H
18000.000000	50.5	11.4	3.5	54.0	H



Date: 9/28/2011 - Time: 4:17:26

Tested by: _____ Reviewed by: _____

Figure 82: Test figure of spurious emissions, mode B, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

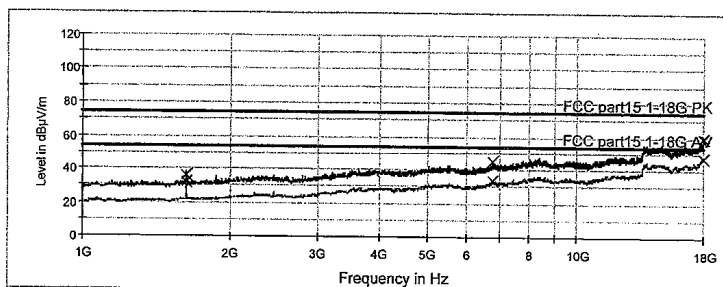
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501 [TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV SAC HF906
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin PK* (dB)	Limit - PK* (dBuV/m)	Polarization
1626.875000	36.2	-15.0	37.8	74.0	V
6771.500000	45.0	-2.0	29.0	74.0	V
17968.125000	59.4	11.3	14.6	74.0	V
17968.125000	59.8	11.3	14.2	74.0	V

Limit and Margin AV

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin AVG (dB)	Limit - AVG (dBuV/m)	Polarization
1626.875000	36.2	-15.0	21.8	54.0	V
6771.500000	45.0	-2.0	20.9	54.0	V
17968.125000	59.4	11.3	6.6	54.0	V
17968.125000	59.8	11.3	6.6	54.0	V



Date: 9/28/2011 - Time: 4:25:09

Tested by:  Reviewed by: _____

Figure 83: Test figure of spurious emissions, mode B, Horizontal polarity (18GHz – 26GHz), 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

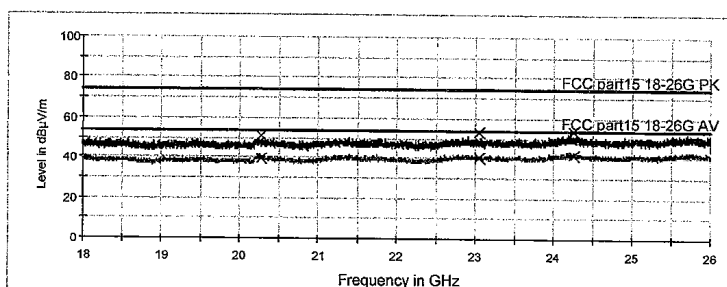
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Polarization
20276.000000	51.3	3.9	22.7	74.0	H
23051.000000	52.8	4.6	21.2	74.0	H
24271.000000	53.5	4.9	20.5	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Polarization
20276.000000	39.5	3.9	14.5	54.0	H
23051.000000	40.3	4.6	13.7	54.0	H
24271.000000	41.8	4.9	12.2	54.0	H

Date: 9/27/2011 - Time: 2:22:23

Tested by:  Reviewed by: _____

**Figure 84: Test figure of spurious emissions, mode B, Vertical polarity
(18GHz – 26GHz), 8DPSK Modulation**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

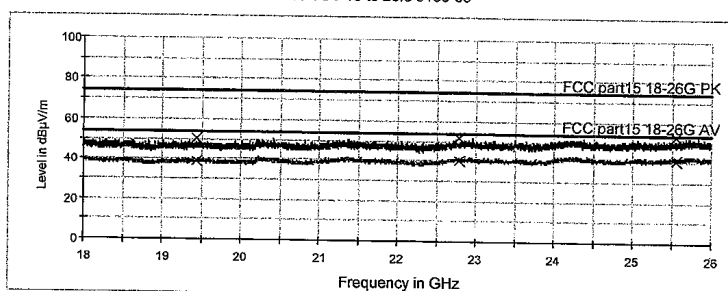
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Rx @ Middle Channel (EDR)
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: Power by li-ion battery
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin PK+ (dB)	Limit - PK+ (dBuV/m)	Polarization
19436.000000	50.5	3.6	23.5	74.0	V
22793.000000	52.0	4.6	22.0	74.0	V
25558.000000	53.2	5.4	20.8	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin AVG (dB)	Limit - AVG (dBuV/m)	Polarization
19436.000000	38.5	3.6	15.5	54.0	V
22793.000000	40.4	4.6	13.6	54.0	V
25558.000000	41.2	5.4	12.8	54.0	V



Date: 9/27/2011 - Time: 2:36:00

Tested by:  Reviewed by: _____

Figure 85: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal, 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

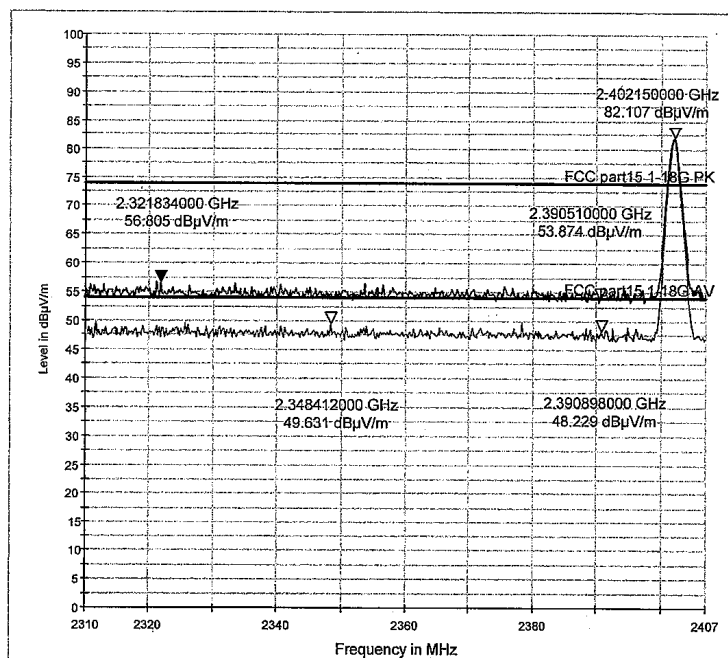
Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH501[TX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ Low Channel (EDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022076 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1

Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/27/2011 - Time: 4:14:09

Tested by:   Reviewed by: _____

Figure 86: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical, 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

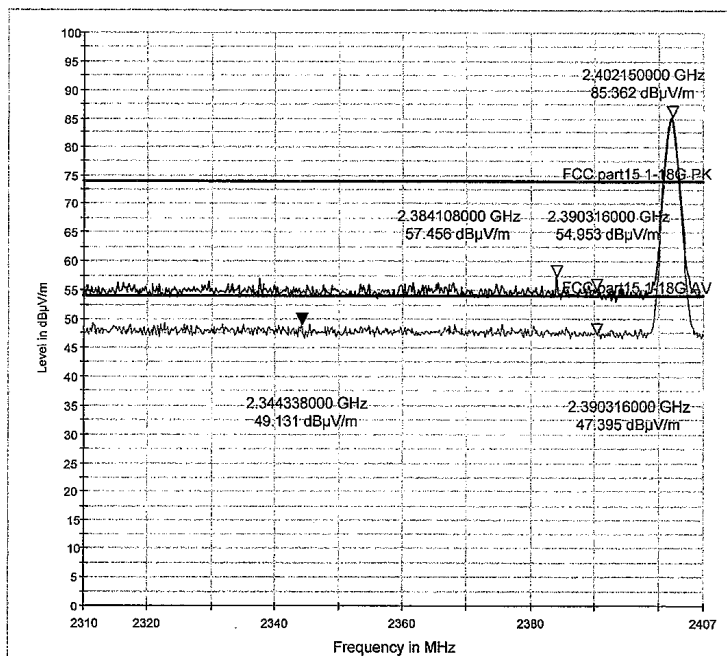
Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH501(TX)
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ Low Channel (EDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022076 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1

Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/27/2011 - Time: 4:23:09

Tested by:  Reviewed by: _____

Figure 87: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal, 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

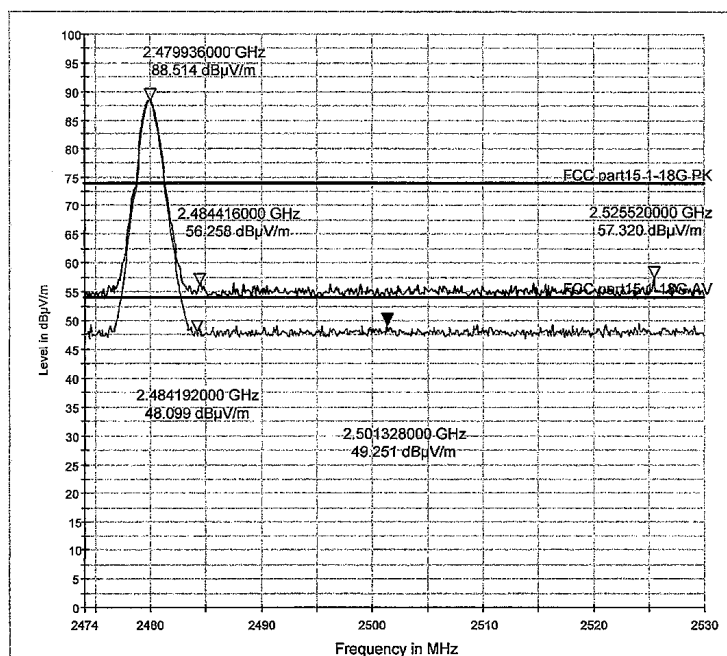
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH501[TX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ High Channel (EDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022076 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal
Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/27/2011 - Time: 4:35:25

Tested by: _____ Reviewed by: _____

Figure 88: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical, 8DPSK Modulation

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

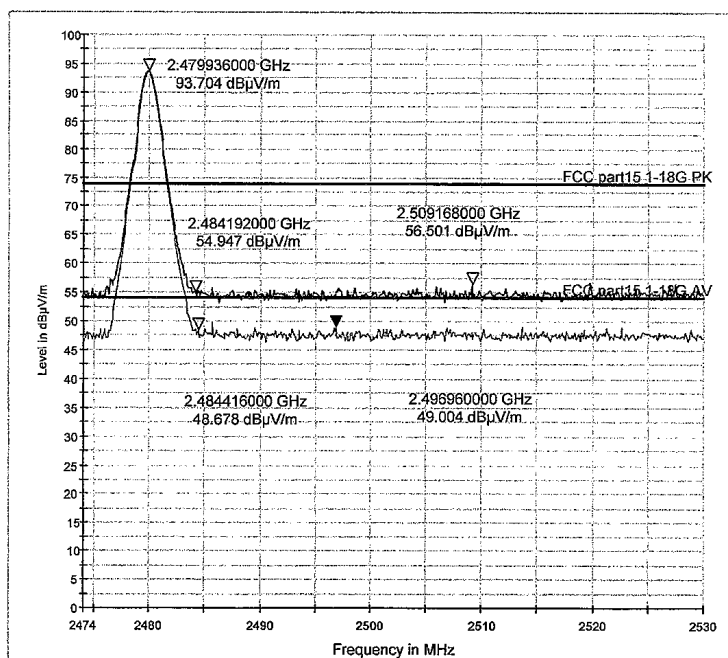
EMC Test Record (Emission)

Common Information

Manufacturer:	Arkon
Test Item:	Bluetooth Stereo Transmitter & Receiver
Identification:	BH501[TX]
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Tx @ High Channel (EDR)
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	Power by li-ion battery
Receipt No:	163082035 100, 200
Report No:	17022076 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV SAC HF906
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 9/27/2011 - Time: 4:28:31

Tested by:  Reviewed by: 

Figure 89: Test figure of conducted emissions

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

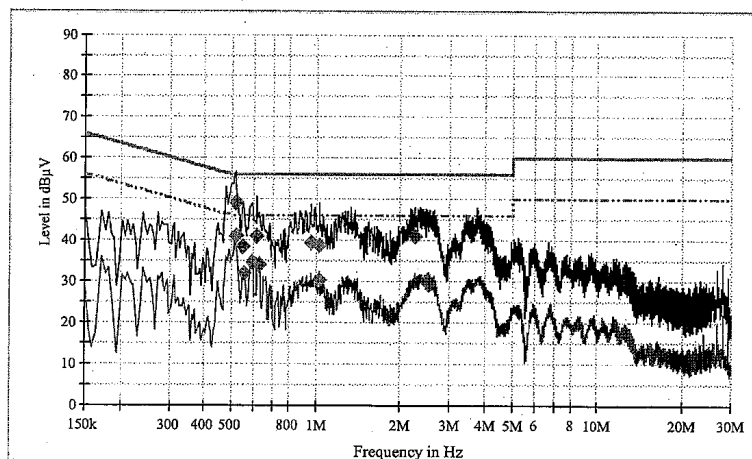
EMC Test Record (EMISSION)

Test Information

Manufacturer: Arkon
Test Item: Bluetooth stereo transmitter & receiver
Identification: BH501,BH502A
Test Standard: FCC Part 15
Test Detail: Conducted Emission
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq.: AC120V / 60Hz
Port / Line: AC Mains(L1+N)
Receipt No.: 163082035 100,200
Report No.: 17022076 001
Result: Pass
Comment: /

Hardware Setup: 1phase LISN ESH3-Z5 to ESCI
Level Unit: dBµV

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCI



9/13/2011, 4:23:36

Tested by:



Reviewed by: _____

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.514500	49.0	1000.0	9.000	GN	N	10.1	7.0	56.0	
0.546000	38.2	1000.0	9.000	GN	N	10.1	17.8	56.0	
0.613500	40.9	1000.0	9.000	GN	N	10.0	15.1	56.0	
0.960000	39.4	1000.0	9.000	GN	N	10.1	16.6	56.0	
1.027500	38.7	1000.0	9.000	GN	N	10.0	17.3	56.0	
2.247000	41.0	1000.0	9.000	GN	N	10.2	15.0	56.0	

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.514500	40.9	1000.0	9.000	GN	N	10.1	5.1	46.0	
0.555000	32.1	1000.0	9.000	GN	L1	10.1	13.9	46.0	
0.591000	34.8	1000.0	9.000	GN	L1	10.0	11.2	46.0	
0.627000	34.1	1000.0	9.000	GN	L1	10.0	11.9	46.0	
1.027500	30.3	1000.0	9.000	GN	N	10.0	15.7	46.0	
2.526000	29.5	1000.0	9.000	GN	L1	10.1	16.5	46.0	

9/13/2011, 4:23:36

Tested by:



Reviewed by: _____

**Figure 90: Test figure of Radiated emissions, mode C, Horizontal polarity
(30MHz – 300MHz)**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

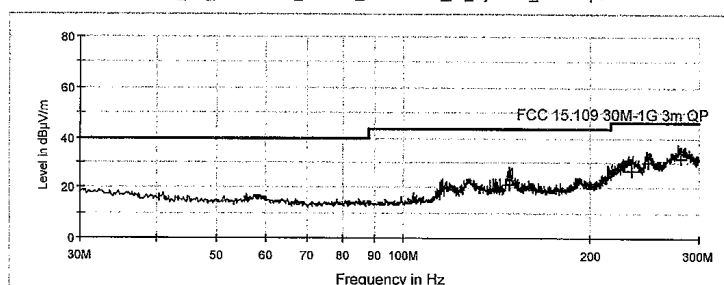
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX] & BH502A [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
148.800000	21.2	13.4	22.3	43.5	H
233.160000	26.8	17.9	19.2	46.0	H
247.920000	30.1	18.7	15.9	46.0	H
281.220000	31.6	20.5	14.4	46.0	H

Date: 9/28/2011 - Time: 7:40:30

Tested by:  Reviewed by: _____

**Figure 91: Test figure of Radiated emissions, mode C, Vertical polarity
(30MHz – 300MHz)**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

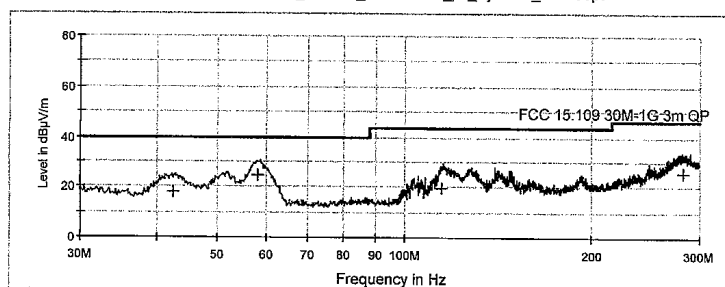
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX] & BH502A [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 30-300MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VHBB9124-511/ TUV ESCI 3-TUV SAC VHBB9124-511

TT_RE_FCC Part15_Class B_30-300MHz_pk_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
42.540000	18.2	11.5	21.8	40.0	V
58.200000	24.3	11.0	15.7	40.0	V
114.780000	19.7	11.5	23.8	43.5	V
281.640000	25.7	20.6	20.3	46.0	V

Date: 9/28/2011 - Time: 7:49:23

Tested by:  Reviewed by: _____

**Figure 92: Test figure of Radiated emissions, mode C, Horizontal polarity
(300MHz – 1GHz)**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

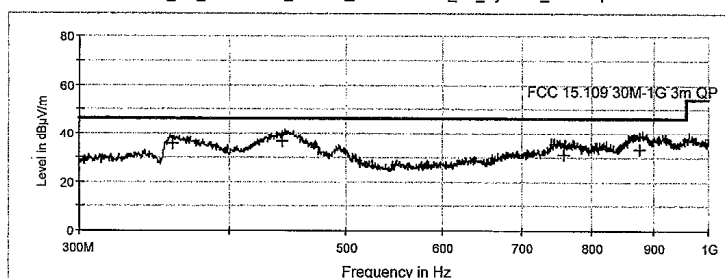
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX] & BH502A [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBuV/m)	Polarization
359.160000	35.5	15.9	10.5	46.0	H
442.440000	36.8	17.8	9.2	46.0	H
758.880000	30.8	23.1	15.2	46.0	H
875.760000	33.1	24.7	12.9	46.0	H

Date: 9/28/2011 - Time: 7:22:48

Tested by:  2011.9.28
Reviewed by:  2011.9.28

**Figure 93: Test figure of Radiated emissions, mode C, Vertical polarity
(300MHz – 1GHz)**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

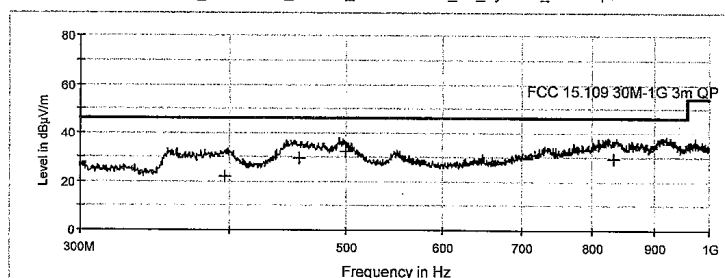
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX] & BH502A [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 300M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC VULP9118A-461/ TUV ESCI 3-TUV SAC VULP9118A-461

TT_RE_FCC Part15_Class B_300-1000MHz_PK_By WLC_2011Sept



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBuV/m)	Polarization
396.600000	22.1	16.8	23.9	46.0	V
456.480000	29.3	18.1	16.7	46.0	V
499.140000	32.1	18.9	13.9	46.0	V
833.760000	29.4	24.0	16.6	46.0	V



Date: 9/28/2011 - Time: 7:18:34

Tested by:  Reviewed by: _____

Figure 94: Test figure of Radiated emissions, mode C, Horizontal polarity (1GHz – 6GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

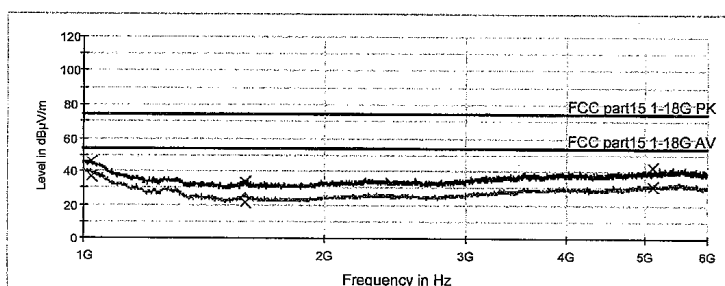
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX] & BH502A [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1022.000000	45.8	-17.3	28.2	74.0	H
1596.000000	33.3	-15.3	40.7	74.0	H
5134.000000	42.5	-6.2	31.5	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1022.000000	36.8	-17.3	17.2	54.0	H
1596.000000	21.4	-15.3	32.6	54.0	H
5134.000000	31.1	-6.2	22.9	54.0	H

Date: 9/28/2011 - Time: 5:13:04

Tested by:  Reviewed by: _____

**Figure 95: Test figure of Radiated emissions, mode C, Vertical polarity
(1GHz – 6GHz)**

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

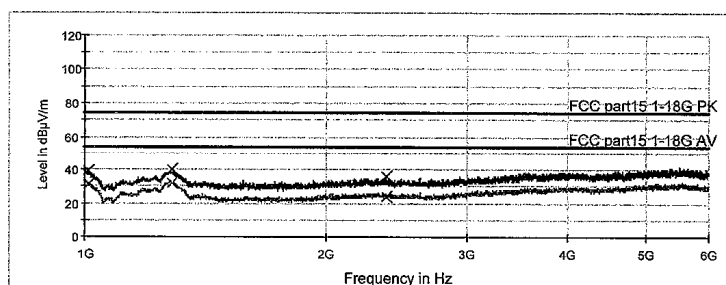
EMC Test Record (Emission)

Common Information

Manufacturer: Arkon
Test Item: Bluetooth Stereo Transmitter & Receiver
Identification: BH501[TX] & BH502A [RX]
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Charging
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163082035 100, 200
Report No: 17022076 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1012.000000	39.3	-17.3	34.7	74.0	V
1288.000000	40.3	-16.3	33.7	74.0	V
2374.000000	35.6	-12.1	38.4	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1012.000000	31.2	-17.3	22.8	54.0	V
1288.000000	32.2	-16.3	21.8	54.0	V
2374.000000	23.9	-12.1	30.1	54.0	V

Date: 9/28/2011 - Time: 5:16:53

Tested by:  Reviewed by: _____