

<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	<b>17039425 001</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	<b>164011550</b>	Seite 1 von 23 Page 1 of 23
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	<b>429028</b>	<b>Auftragsdatum:</b> <i>Order date:</i>	<b>25.03.2014</b>	
<b>Auftraggeber:</b> <i>Client:</i>	<b>Compupal (Group) Corporation</b> No.1555 Jiashan Avenue, Jiashan, Zhejiang 314113, China			
<b>Prüfgegenstand:</b> <i>Test item:</i>	<b>2.4GHz Digital Wireless Stereo Headphones</b>			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	<b>NS-WHP314</b>			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	<b>FCC Certification</b> <b>IC Certification</b>			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.249    FCC CFR47 Part 15: Subpart C Section 15.207 CFR47 FCC 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    FCC KDB publication 447498 D01 v05r01 RSS-210 Issue 8 December 2010                    RSS-102 Issue 4 March 2010 RSS-Gen Issue 3 December 2010                    ICES-003 Issue 5 August 2012			
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	<b>25.03.2014</b>			
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	<b>A000041694-001</b> <b>A000041694-003</b>			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	<b>13.04.2014</b>			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	<b>Accurate Technology Co., Ltd.</b>			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	<b>TÜV Rheinland (Shenzhen) Co., Ltd.</b>			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	<b>Pass</b>			
<b>geprüft von / tested by:</b>		<b>kontrolliert von / reviewed by:</b>		
<b>12.05.2014</b>	<b>Tom Wang / Assistant Project Manager</b>	<b>12.05.2014</b>	<b>Winnie Hou / Technical Certifier</b>	
<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>
				<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges / Other:</b>				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>		<b>Prüfmuster vollständig und unbeschädigt</b> <i>Test item complete and undamaged</i>		
<b>* Legende:</b>	<b>1 = sehr gut</b>	<b>2 = gut</b>	<b>3 = befriedigend</b>	<b>4 = ausreichend</b>
	<b>P(ass) = entspricht o.g. Prüfgrundlage(n)</b>	<b>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</b>	<b>N/A = nicht anwendbar</b>	<b>5 = mangelhaft</b>
<b>Legend:</b>	<b>1 = very good</b>	<b>2 = good</b>	<b>3 = satisfactory</b>	<b>4 = sufficient</b>
	<b>P(ass) = passed a.m. test specification(s)</b>	<b>F(ail) = failed a.m. test specification(s)</b>	<b>N/A = not applicable</b>	<b>5 = poor</b>
				<b>N/T = nicht getestet</b>
<p><b>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.</b>  <i>This test report only 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 test mark.</i></p>				

## TEST SUMMARY

**5.1.1 ANTENNA REQUIREMENT***RESULT: Pass***5.1.2 99% BANDWIDTH***RESULT: Passed***5.1.3 FUNDAMENTAL & HARMONICS RADIATED EMISSION***RESULT: Pass***5.1.4 RADIATED SPURIOUS EMISSIONS OUTSIDE BAND***RESULT: Pass***5.1.5 RADIATED EMISSIONS***RESULT: Pass***5.1.6 CONDUCTED EMISSIONS***RESULT: Pass***6.1.1 ELECTROMAGNETIC FIELDS***RESULT: Pass*

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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 Results

(Only the worst case test graphs were shown in the Appendix)

## 2. Test Sites

### 2.1 Test Facilities

Accurate Technology Co., Ltd.

F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan  
Shenzhen, P.R. China.

FCC Registration No.: 752051

IC OATS Registration No.: 5077A-2

The tests at the test site have been conducted under the supervision of a TÜV engineer.

## 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
<b>Transmitter spurious emissions</b>				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-11
Test Receiver	Rohde & Schwarz	ESCS30	100307	2015-01-11
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2015-01-11
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2015-01-11
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2015-01-11
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2015-01-11
Pre-Amplifier	Rohde & Schwarz	CBLU118354 0-01	3791	2015-01-11
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2015-01-11
<b>Conducted Emission</b>				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2015-01-11
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2015-01-11
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2015-01-11
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015-01-11
<b>Radiated Emission</b>				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-11
Test Receiver	Rohde & Schwarz	ESCS30	100307	2015-01-11
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2015-01-11
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2015-01-11
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2015-01-11
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2015-01-11
Pre-Amplifier	Rohde & Schwarz	CBLU118354 0-01	3791	2015-01-11

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, 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

**Table 2: Measurement Uncertainty**

Parameter	Uncertainty
Radiated emission (below 30MHz)	$< \pm 3.08$ dB
Radiated emission (30MHz-1GHz)	$< \pm 4.42$ dB
Radiated emission (above 1GHz)	$< \pm 4.06$ dB
Conducted Emission	$< \pm 2.23$ dB

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

Accurate Technology Co., Ltd. Test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan, Shenzhen, P.R. China and is listed on the US Federal Communications Commission list of facilities and Industry Canada OATS list approved to perform measurements.

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT is digital wireless stereo headphones composed of one headphone and one docking. It operates at 2.4GHz ISM frequency band.  
 For details refer to the User Manual and Circuit Diagram.

#### 3.2 Ratings and System Details

**Table 3: Technical Specification of Docking**

Technical Specification	Value
Type Designation	NS-WHP314
FCC ID	Z5YNS-WHP314
IC	10828A-WHP314
Operating Frequency band	2406 – 2475MHz
Channel separation	3MHz
Channel number	24
Maximum Output Power(mW)	4.7656
Operation Voltage	DC 5V via AC/DC adapter
Modulation	GFSK
Antenna type	Internal antenna
Antenna Gain	1.7dBi
Channel frequency(MHz)	2406/2409/2412/2415/2418/2421/2424/2427/2430/243/2436/2439 /2442/2445/2448/2451/2454/2457/2460/2463/2466/2469/2472/2475

**Table 4: Technical Specification of Headphone**

Technical Specification	Value
Type Designation	NS-WHP314
FCC ID	Z5YNS-WHP314H
IC	10828A-WHP314
Operating Frequency band	2406 – 2475MHz
Channel separation	3MHz
Channel number	24
Maximum Output Power(mW)	0.6920
Operation Voltage	DC 3.7V via battery
Battery Type	Polymer Li-ion Rechargeable Cell
Battery Capacity	450mA/3.7V
Modulation	GFSK
Antenna type	Internal antenna
Antenna Gain	1.79dBi
Channel frequency(MHz)	2406/2409/2412/2415/2418/2421/2424/2427/2430/243/2436/2439 /2442/2445/2448/2451/2454/2457/2460/2463/2466/2469/2472/2475

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless mode
  - 1. Docking transmitting
  - 2. Docking receiving
  - 3. Headphone transmitting
  - 4. Headphone receiving
- B. On, Audio input and output
- 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
- Operational 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 together with the following accessories.

**Table 5: Accesspries and Auxiliary Equipment**

Description	Manufacturer	Part No.	S/N
iPod	Apple	A1238	8K039T1Y9ZU
Speaker	Franklin	EVS-2000	N/A

### 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

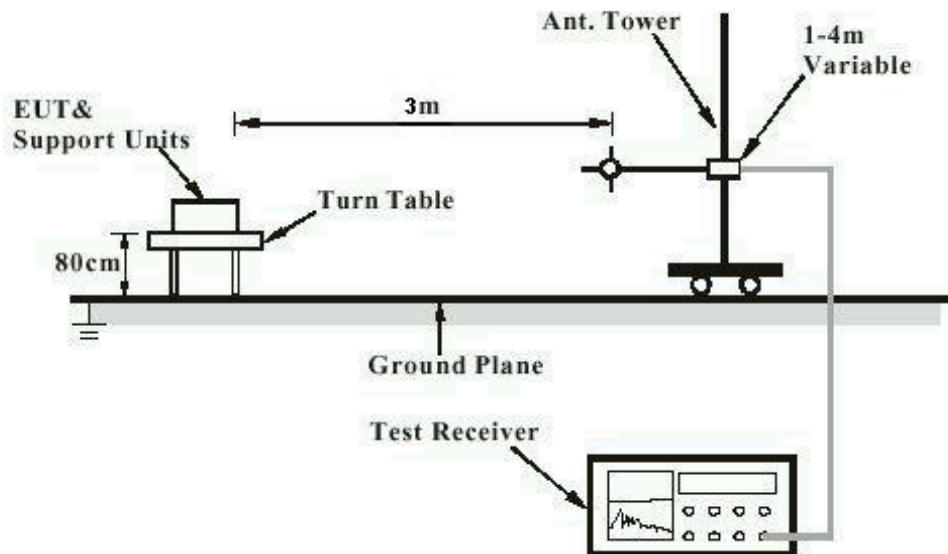
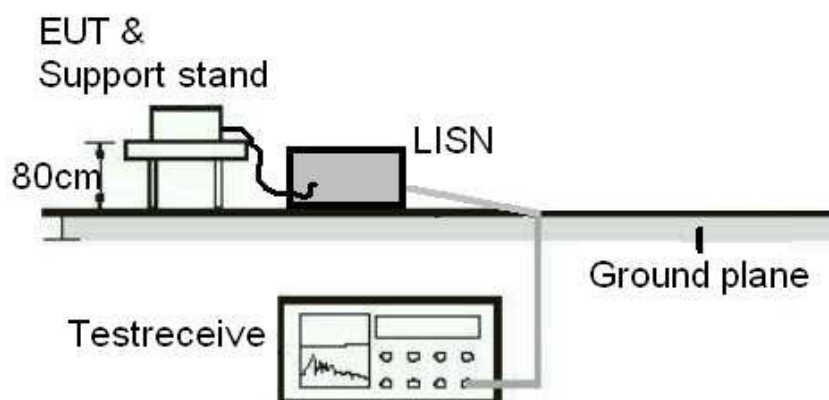


Diagram of Measurement Equipment Configuration for Conduction Measurement



## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:** **Pass**

Test standard : FCC Part 15.203  
Clause 7.1.4 of RSS-Gen  
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 maximum directional gain of antenna is 1.7dBi for docking and 1.79 dBi for headphone, 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 photos for details.

### 5.1.2 99% Bandwidth

**RESULT:**
**Passed**

Date of testing : 2014-04-13  
 Test standard : RSS-Gen clause 4.6.1  
 Basic standard : ANSI C63.4: 2003  
 Kind of test site : Shielded room

**Test setup**

Test Channel : Low/ Middle/ High  
 Operation Mode : A.1, A.3  
 Ambient temperature : 22°C  
 Relative humidity : 52%  
 Atmospheric pressure : 101 kPa

**Table 6: Test result of 99% Bandwidth of Docking**

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2406	2940	/	Pass
Mid Channel	2439	2580	/	Pass
High Channel	2475	2560	/	Pass

**Table 7: Test result of 99% Bandwidth of Headphone**

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2406	2640	/	Pass
Mid Channel	2439	2540	/	Pass
High Channel	2475	2520	/	Pass

**5.1.3 Fundamental & Harmonics Radiated Emission****RESULT:****Pass**

Date of testing : 2014-04-13  
Test standard : FCC part 15.249(a)  
Clause A2.9(a) of RSS-210  
Basic standard : ANSI C63.4: 2003  
Limits : FCC part 15.249(a)  
Clause A2.9(a) of RSS-210  
Kind of test site : 3m Semi-Anechoic Chamber

**Test setup**

Test channel : Low/ Middle/ High  
Input voltage : DC 5V for docking via AC/DC adapter  
DC 3.7V for headphone via battery  
Operation mode : A.1, A.3  
Ambient temperature : 25°C  
Relative humidity : 52%  
Atmospheric pressure : 101kPa

For details refer to test plots in Appendix 1.

**5.1.4 Radiated spurious emissions outside band****RESULT:****Pass**

Date of testing : 2014-04-13  
Test standard : FCC Part 15.209(a)  
FCC Part 15.249(d)  
Clause 2.2 of RSS-210  
Basic standard : ANSI C63.4: 2003  
Frequency range : 0.009 – 25000MHz\*  
Limits : FCC Part 15.209(a)  
FCC Part 15.249(d)  
Clause 7.2.5 of RSS-Gen  
Kind of test site : 3m Semi-Anechoic Chamber

**Test Setup**

Test channel : Low/ Middle/ High  
Input voltage : DC 5V for docking via AC/DC adapter  
DC 3.7V for headphone via battery  
Operation mode : A.1, A.3  
Ambient temperature : 25°C  
Relative humidity : 52%  
Atmospheric pressure : 101kPa

\*- The EUT's highest frequency generated and used is 2475MHz; hence the highest scan frequency is up to 25GHz.

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### 5.1.5 Radiated emissions

**RESULT:****Pass**

Date of testing : 2014-04-13  
Test standard : FCC Part 15.109  
ICES-003 Issue 5 August 2012  
Basic standard : ANSI C63.4: 2003  
Frequency range : 30 – 1000MHz  
Limits : FCC Part 15.109(a)  
Table 2 of ICES-003 Issue 5 August 2012  
Kind of test site : 3m Semi-Anechoic Chamber

**Test Setup**

Input voltage : DC 5V for docking via AC/DC adapter  
DC 3.7V for headphone  
Operation mode : B,C  
Earthing : Not connected  
Ambient temperature : 23°C  
Relative humidity : 48%  
Atmospheric pressure : 101kPa

For details refer to test plots in Appendix 1.

### 5.1.6 Conducted emissions

**RESULT:****Pass**

Date of testing : 2014-04-13  
Test standard : FCC Part 15.107  
FCC Part 15.207  
RSS-Gen Clause 7.2.4  
Basic standard : ANSI C63.4: 2003  
Frequency range : 0.15 – 30MHz  
Limits : FCC Part 15.107  
FCC Part 15.207  
Table 4 of RSS-Gen  
Kind of test site : Shield room

**Test setup**

Input voltage : DC 5V for docking via AC/DC adapter  
DC 3.7V for headphone  
Operation mode : A,B,C  
Earthing : Not connected  
Ambient temperature : 25°C  
Relative humidity : 52%  
Atmospheric pressure : 101kPa

For details refer to test plots in Appendix 1.



## 6. Safety Human exposure

### 6.1 Radio Frequency Exposure Compliance

#### 6.1.1 Electromagnetic Fields

**RESULT:** **Pass**

Test standard : RSS-102 Issue 4 March 2010  
FCC KDB Publication 447498 D01 v05r01

The separation distance of the docking should be 40mm. The measured maximum peak output power of the docking is 4.7656mW, which is far below the SAR exclusion threshold level 77 mW (Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\geq 50$  mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v05r01.

The separation distance of the docking should be 5mm. The maximum peak output power of the headphone is 0.6920mW, which is far below the SAR exclusion threshold level 10mW (Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq 50$  mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v05r01.

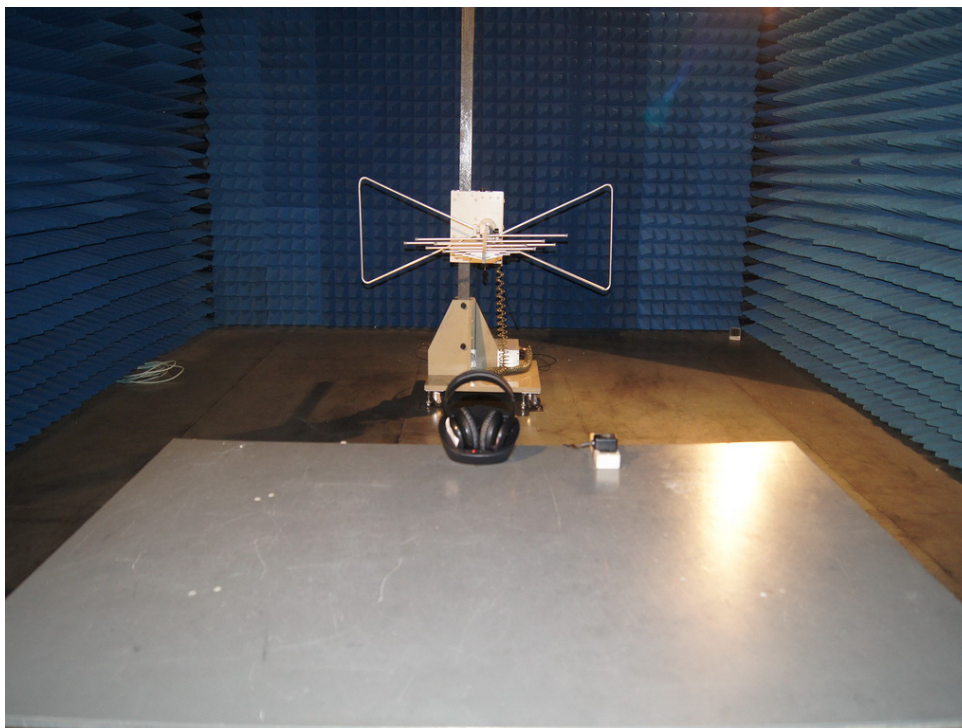
And the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 4 as well.

## 7. Photographs of the Test Set-Up

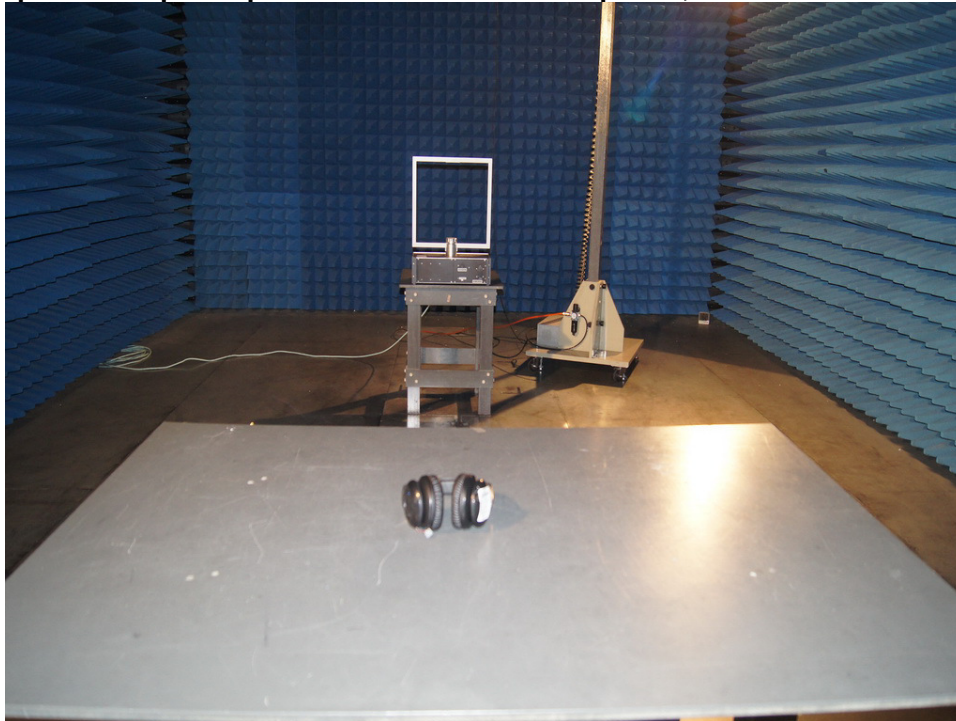
Photograph 1: Set-up for Conducted Emissions



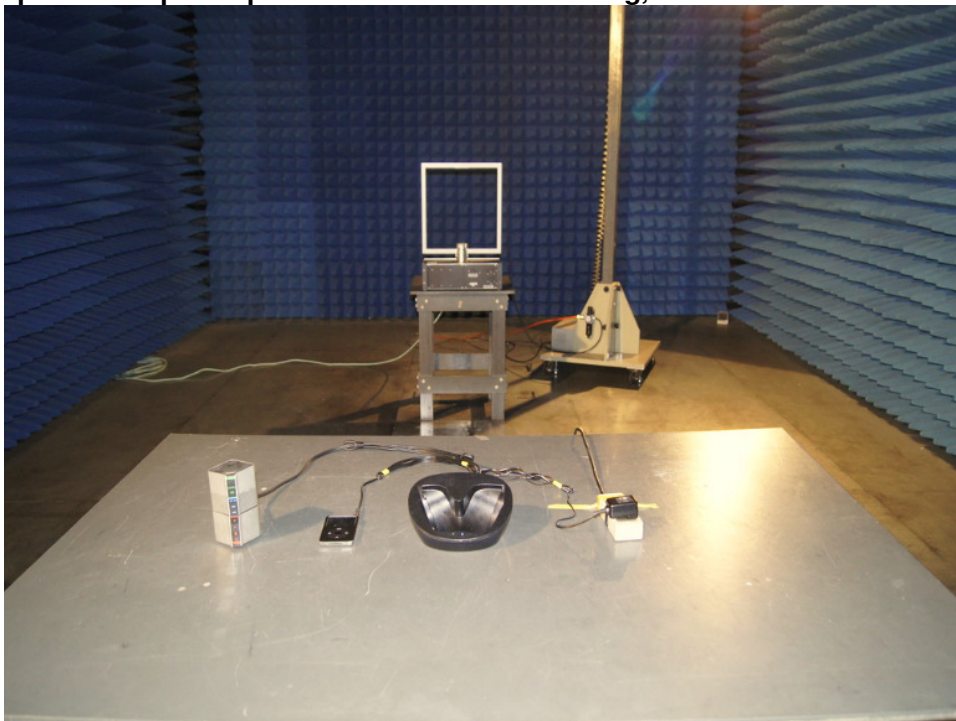
Photograph 2: Set-up for Radiated Emissions



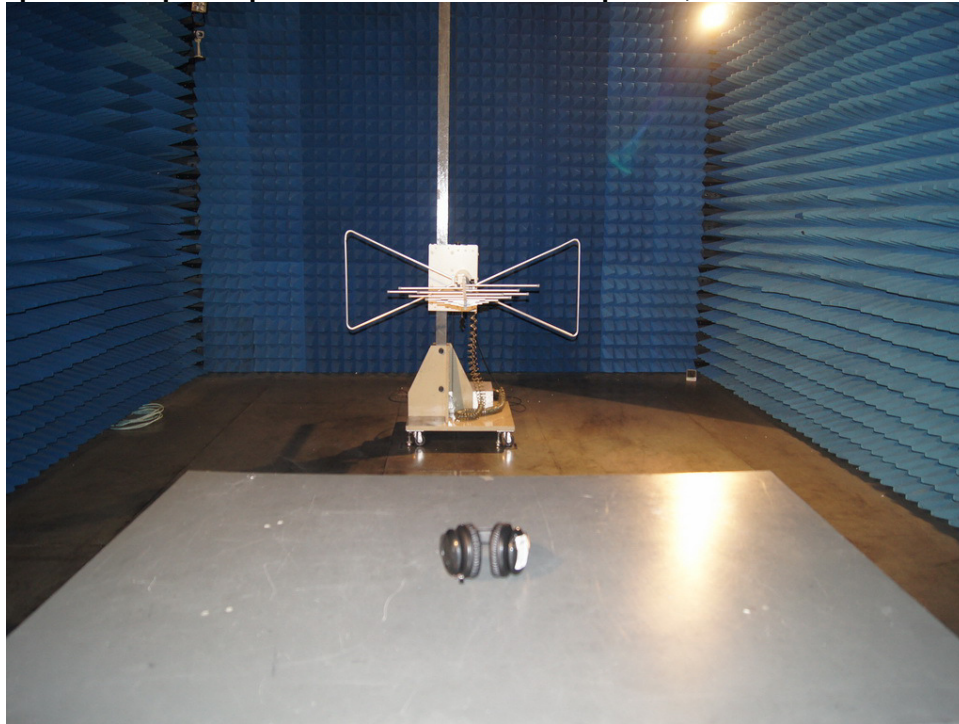
**Photograph 3: Set-up for Spurious Emissions of headphone, below 30MHz**



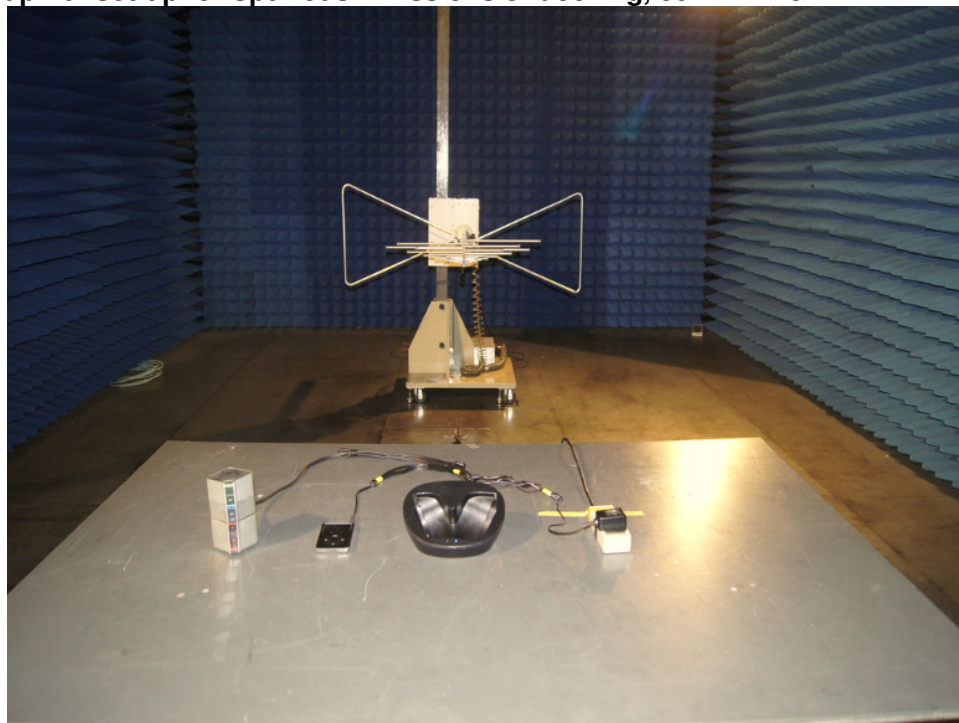
**Photograph 4: Set-up for Spurious Emissions of docking, below 30MHz**



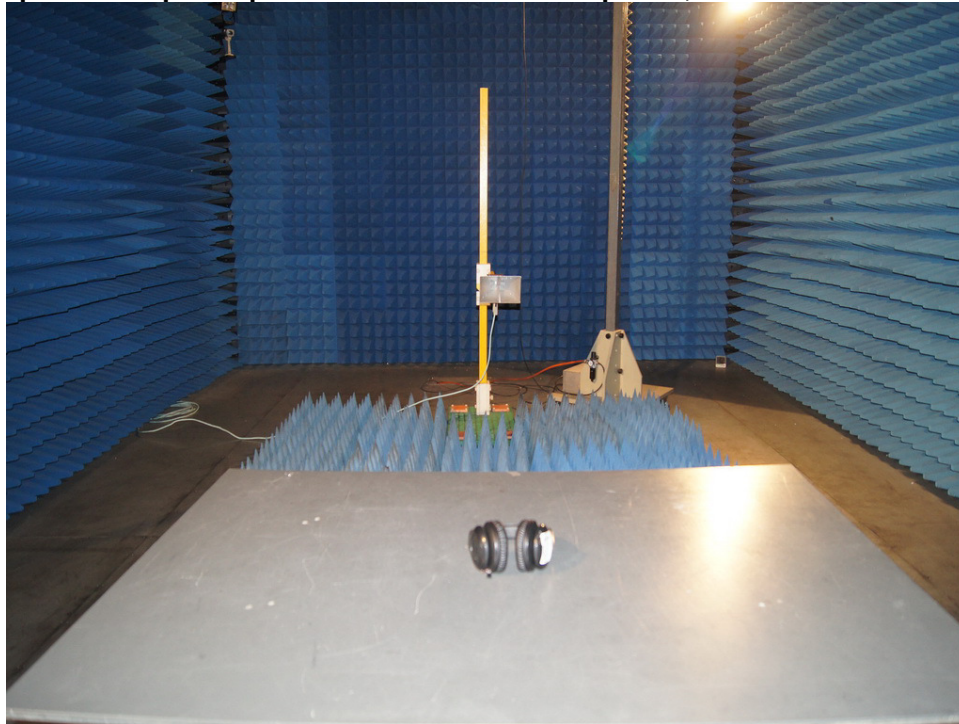
**Photograph 5: Set-up for Spurious Emissions of headphone, 30MHz - 1GHz**



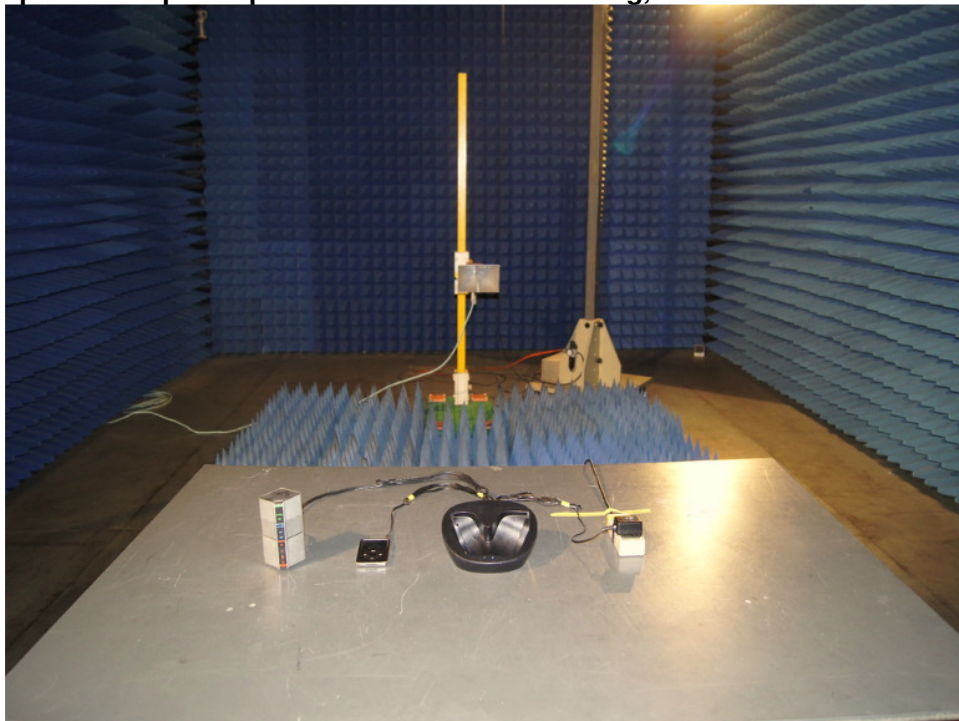
**Photograph 6: Set-up for Spurious Emissions of docking, 30MHz - 1GHz**



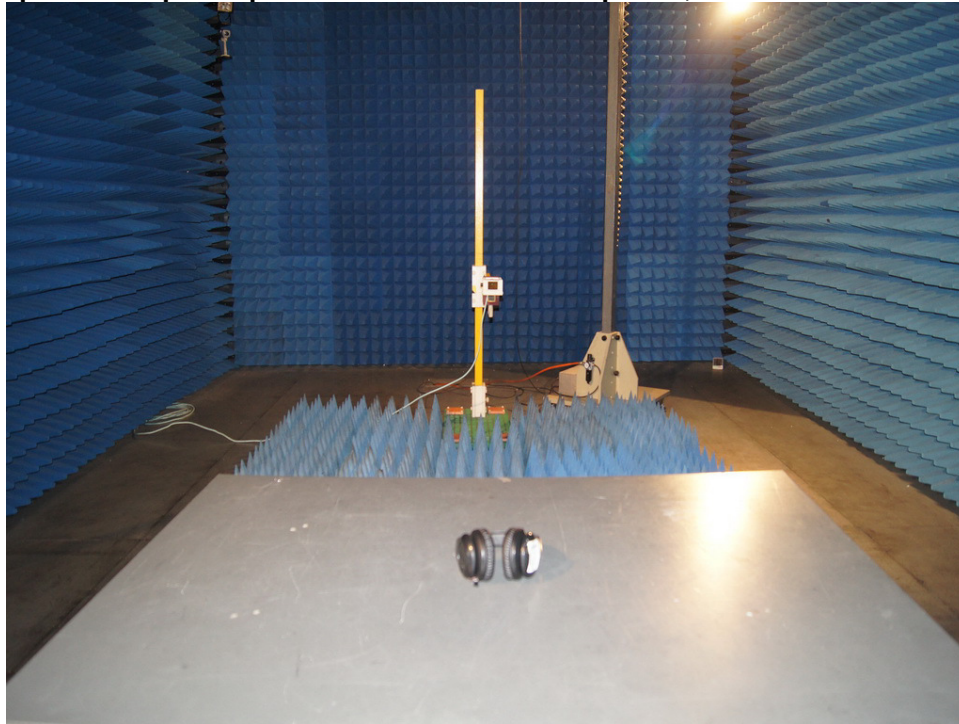
**Photograph 7: Set-up for Spurious Emissions of headphone, 1GHz – 18GHz**



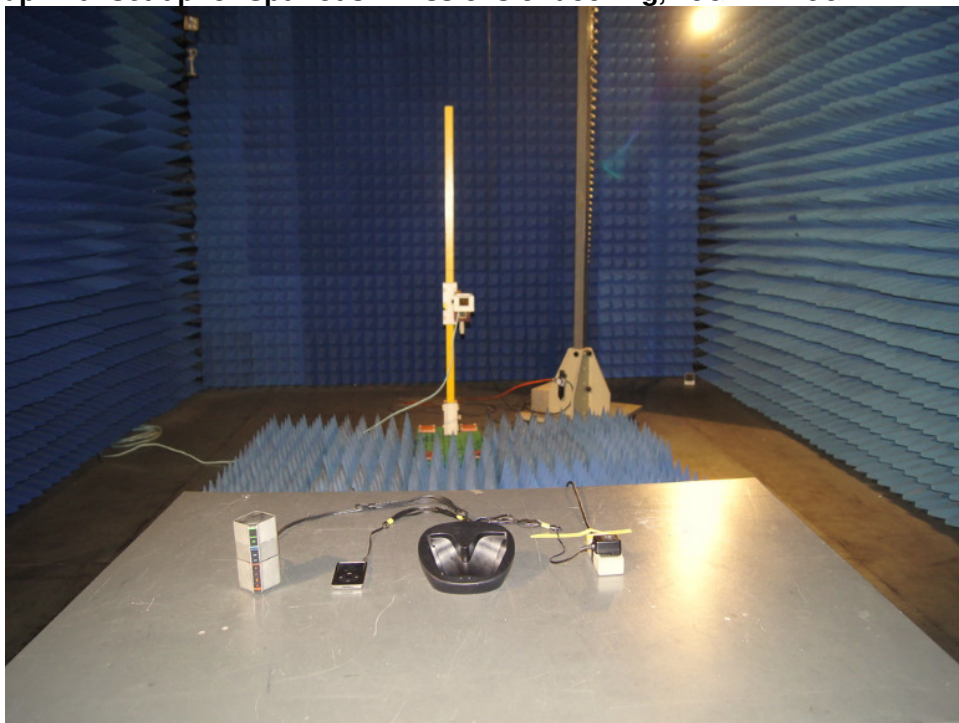
**Photograph 8: Set-up for Spurious Emissions of docking, 1GHz – 18GHz**



**Photograph 9: Set-up for Spurious Emissions of headphone, 18GHz – 25GHz**



**Photograph 10: Set-up for Spurious Emissions of docking, 18GHz – 25GHz**



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Photograph 10: Set-up for Spurious Emissions of docking, 18GHz – 25GHz .....	22

Figure 1: Test figure of radiated spurious emission outside band of docking, low channel, 9 KHz-30MHz, X Axis

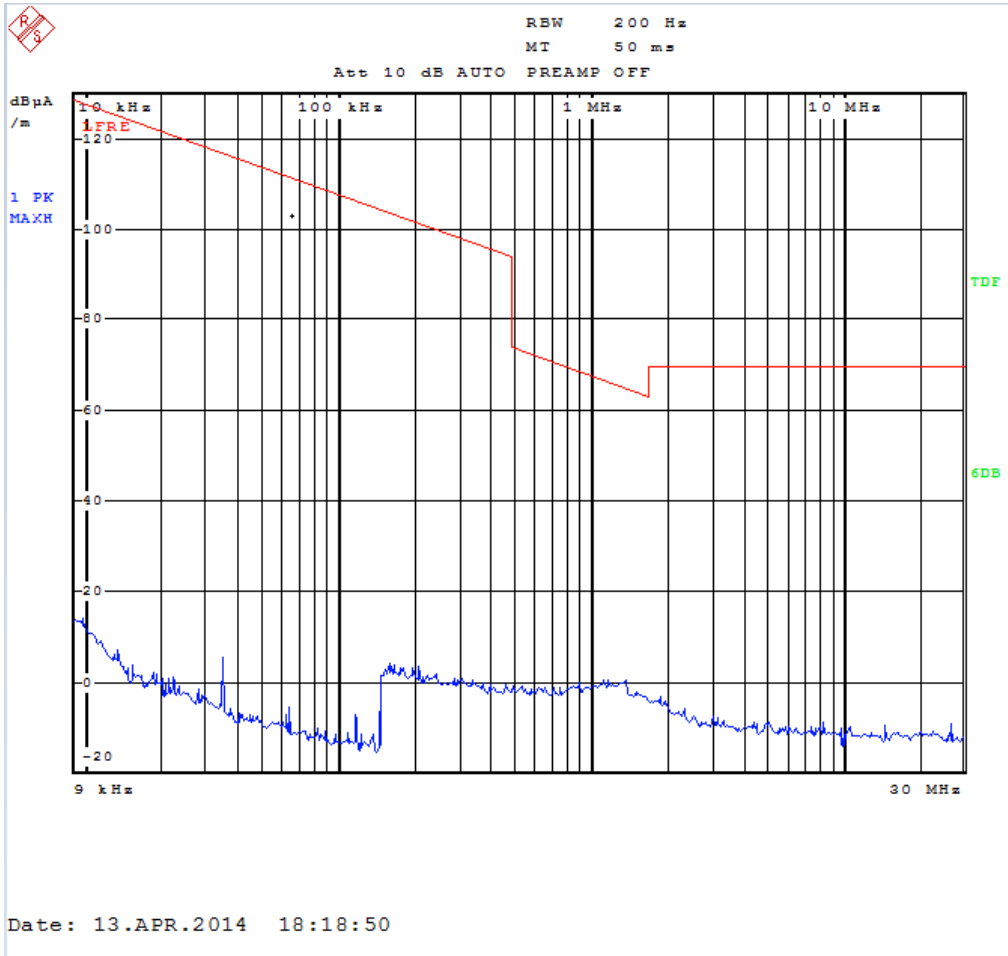
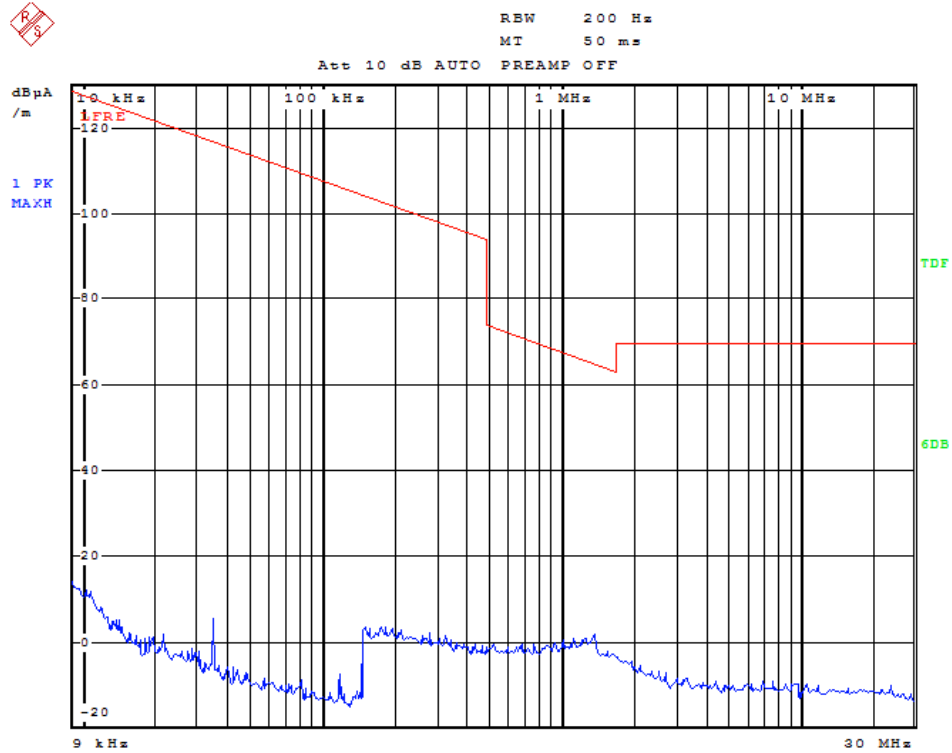


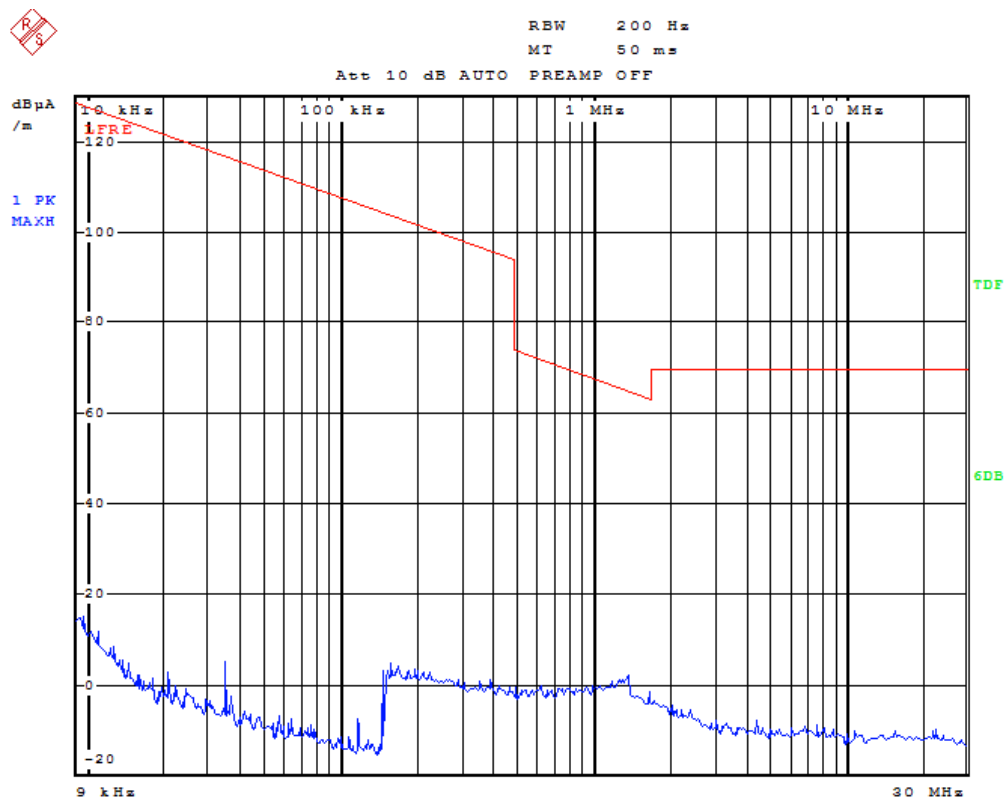


Figure 2: Test figure of radiated spurious emission outside band of docking, low channel, 9 KHz-30MHz, Y Axis



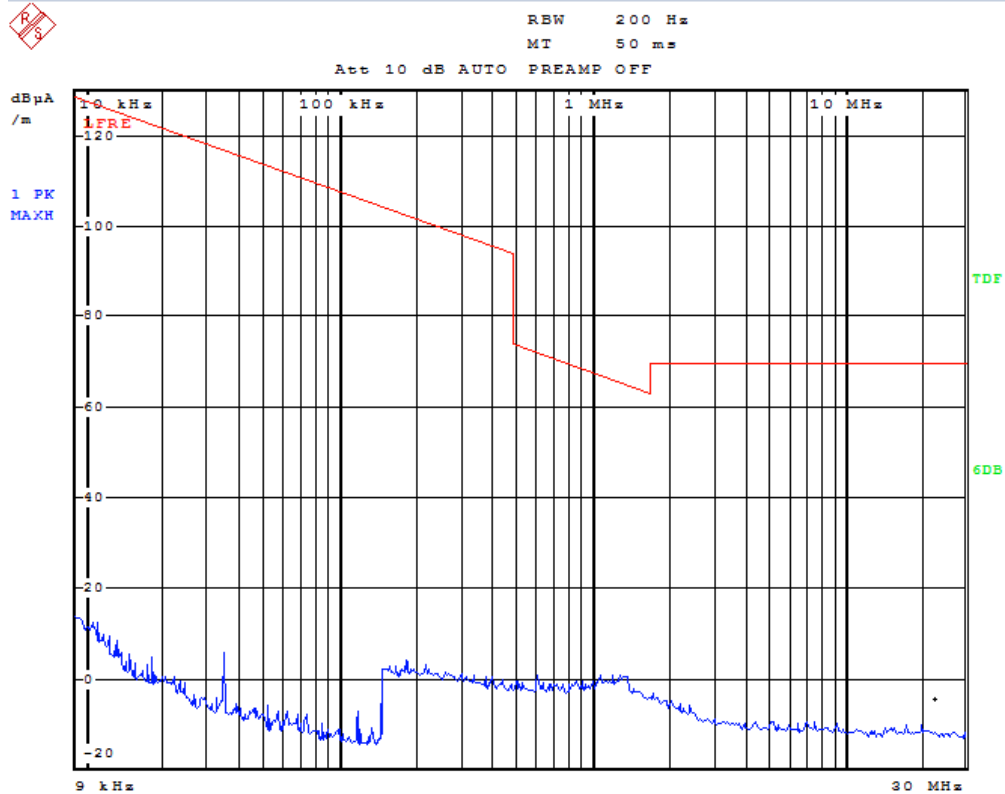
Date: 13.APR.2014 18:20:56

Figure 3: Test figure of radiated spurious emission outside band of docking, low channel, 9 KHz-30MHz, Z Axis



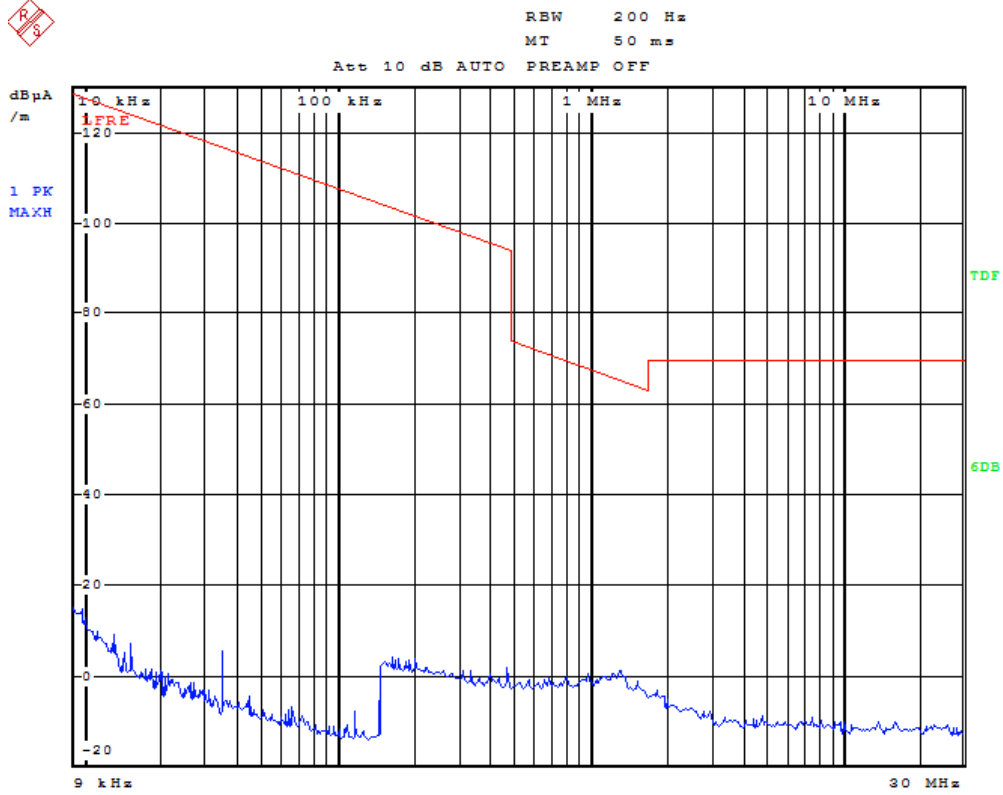
Date: 13.APR.2014 18:22:55

Figure 4: Test figure of radiated spurious emission outside band of docking, middle channel, 9 KHz-30MHz, X Axis



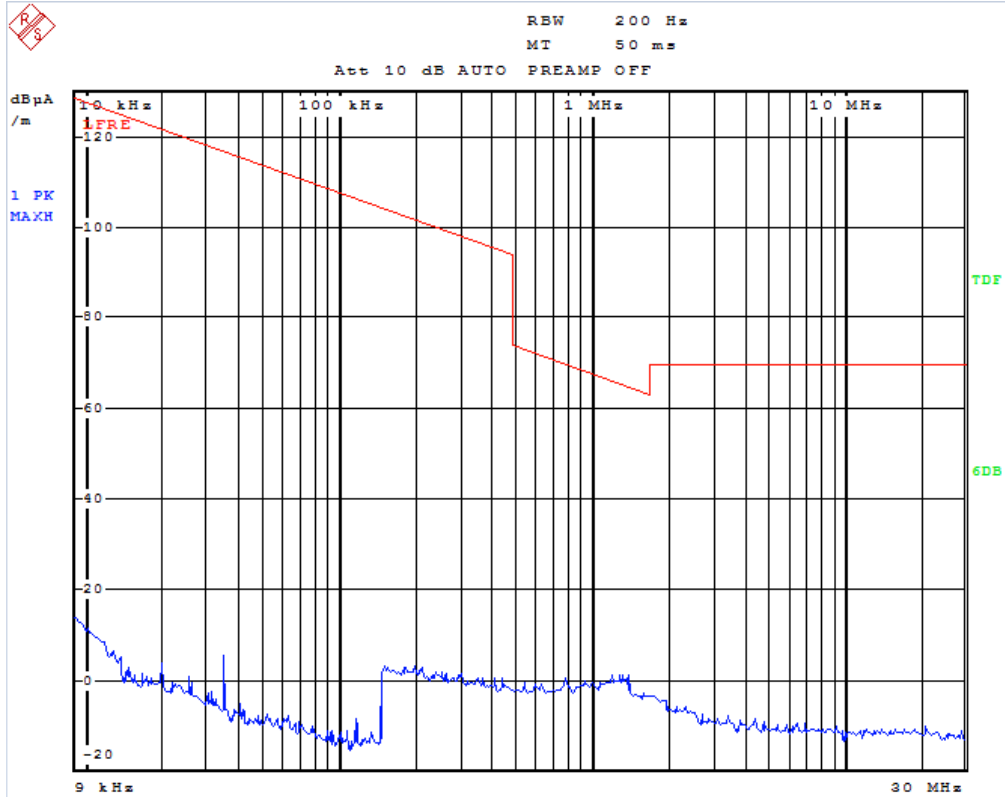
Date: 13.APR.2014 18:25:14

Figure 5: Test figure of radiated spurious emission outside band of docking, middle channel, 9 KHz-30MHz, Y Axis



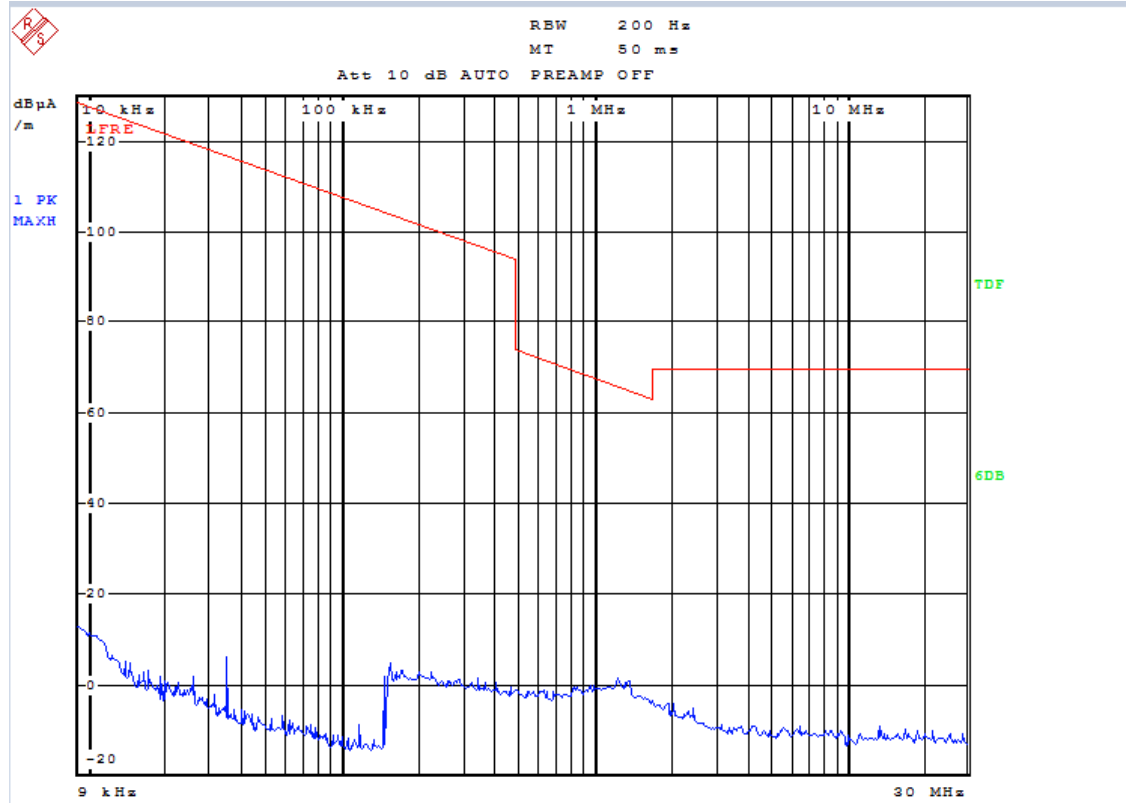
Date: 13.APR.2014 18:27:18

Figure 6: Test figure of radiated spurious emission outside band of docking, low channel, 9 KHz-30MHz, Z Axis



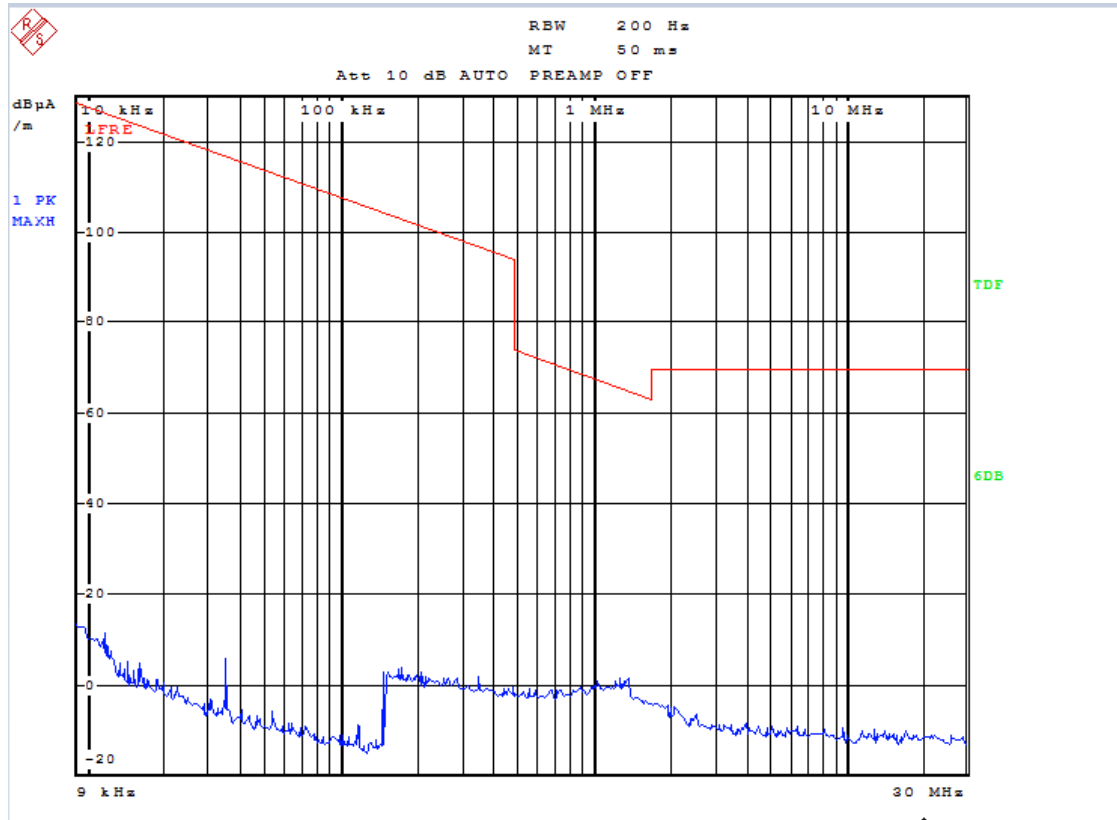
Date: 13.APR.2014 18:29:32

Figure 7: Test figure of radiated spurious emission outside band of docking, high channel, 9 KHz-30MHz, X Axis



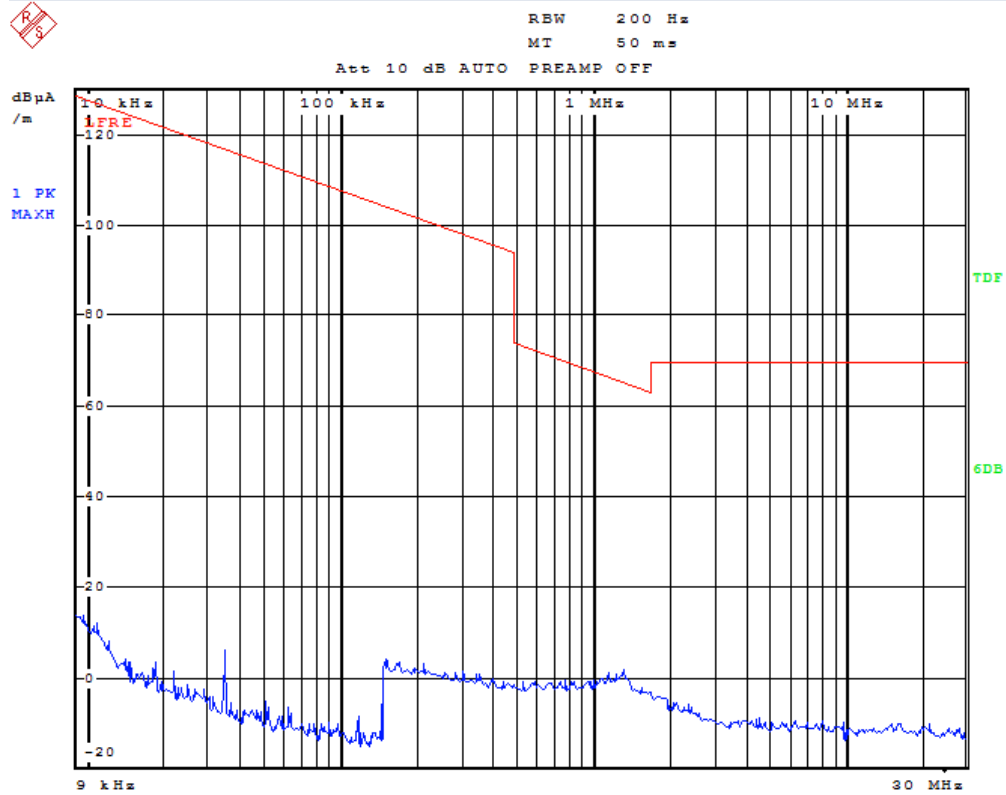
Date: 13.APR.2014 18:31:40

Figure 8: Test figure of radiated spurious emission outside band of docking, high channel, 9 KHz-30MHz, Y Axis



Date: 13.APR.2014 18:33:44

Figure 9: Test figure of radiated spurious emission outside band of docking, high channel, 9 KHz-30MHz, Z Axis



Date: 13.APR.2014 18:35:44



**Figure 10: Test figure of radiated spurious emission outside band of docking, low channel, 30MHz-1000MHz, Horizontal**

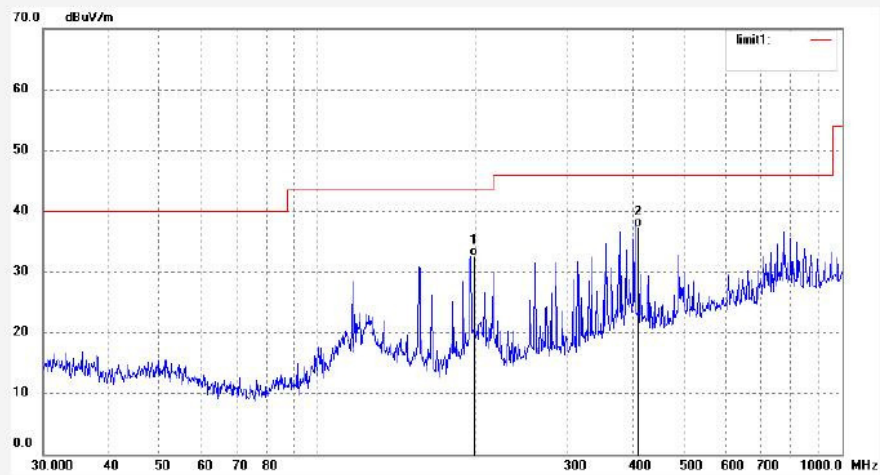


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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #1263	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2406 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	198.0372	45.14	-12.45	32.69	43.50	-10.81	QP			
2	408.0043	44.00	-6.63	37.37	46.00	-8.63	QP			

**Figure 11: Test figure of radiated spurious emission outside band of docking, low channel, 30MHz-1000MHz, vertical**

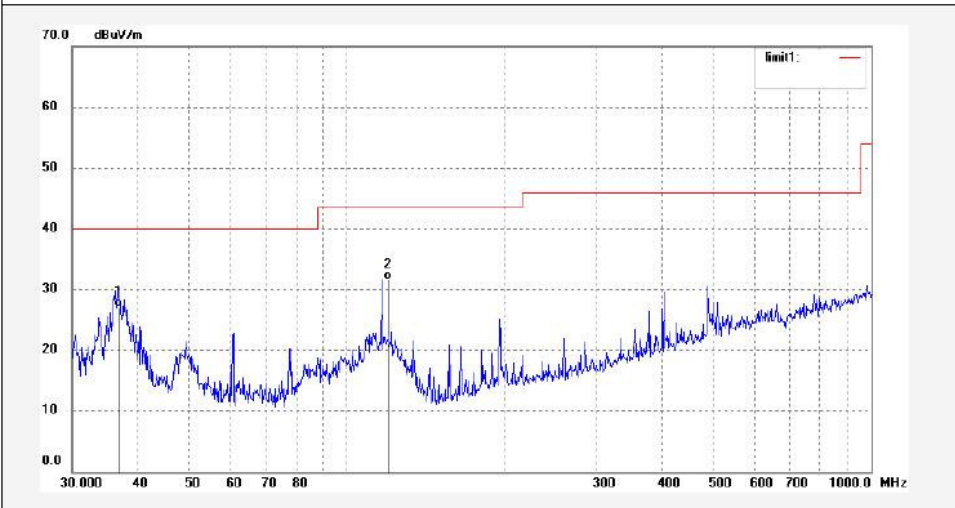


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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #1264	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2406 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.8470	37.92	-10.83	27.09	40.00	-12.91	QP			
2	119.0429	44.69	-13.15	31.54	43.50	-11.96	QP			

**Figure 12: Test figure of radiated spurious emission outside band of docking, middle channel, 30MHz-1000MHz, Vertical**

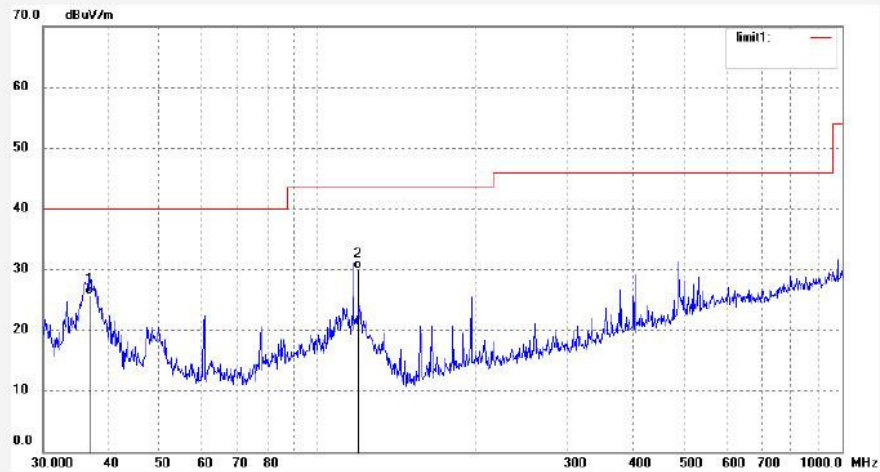


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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #1265	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2439 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.7811	36.70	-10.82	25.88	40.00	-14.12	QP			
2	119.1965	43.21	-13.15	30.06	43.50	-13.44	QP			

**Figure 13: Test figure of radiated spurious emission outside band of docking, middle channel, 30MHz-1000MHz, horizontal**



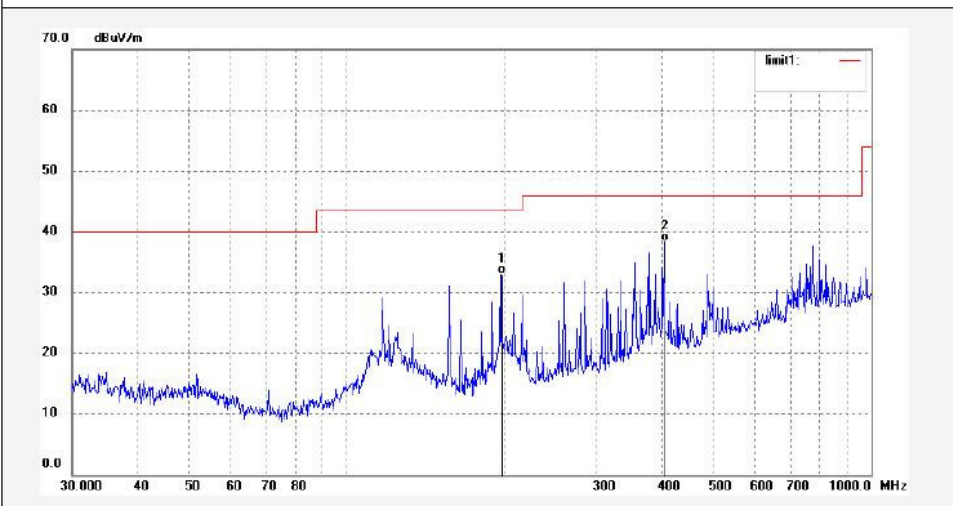
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Site: 2# Chamber  
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Fax:+86-0755-26503396

Job No.: PHY #1266	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2439 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	198.8211	45.36	-12.45	32.91	43.50	-10.59	QP			
2	408.0005	44.98	-6.63	38.35	46.00	-7.65	QP			

**Figure 14: Test figure of radiated spurious emission outside band of docking, high channel, 30MHz-1000MHz, horizontal**



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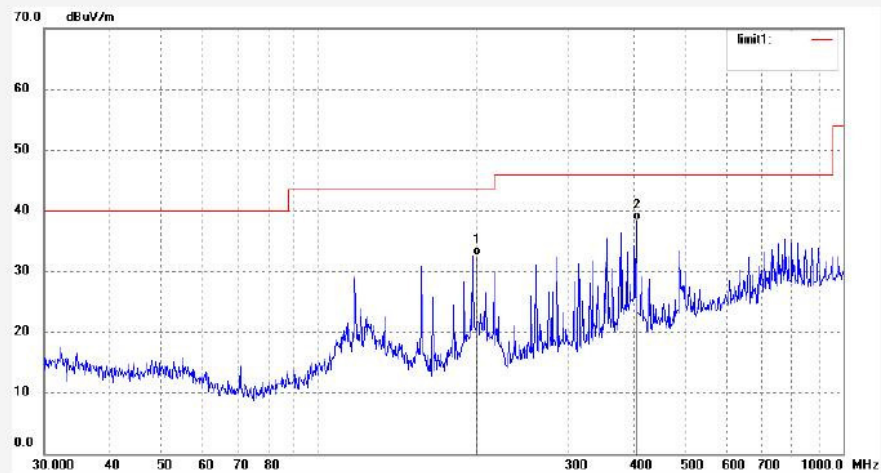
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #1267	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2475 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	198.9341	45.06	-12.45	32.61	43.50	-10.89	QP			
2	408.0025	45.06	-6.63	38.43	46.00	-7.57	QP			

**Figure 15: Test figure of radiated spurious emission outside band of docking, high channel, 30MHz-1000MHz, vertical**

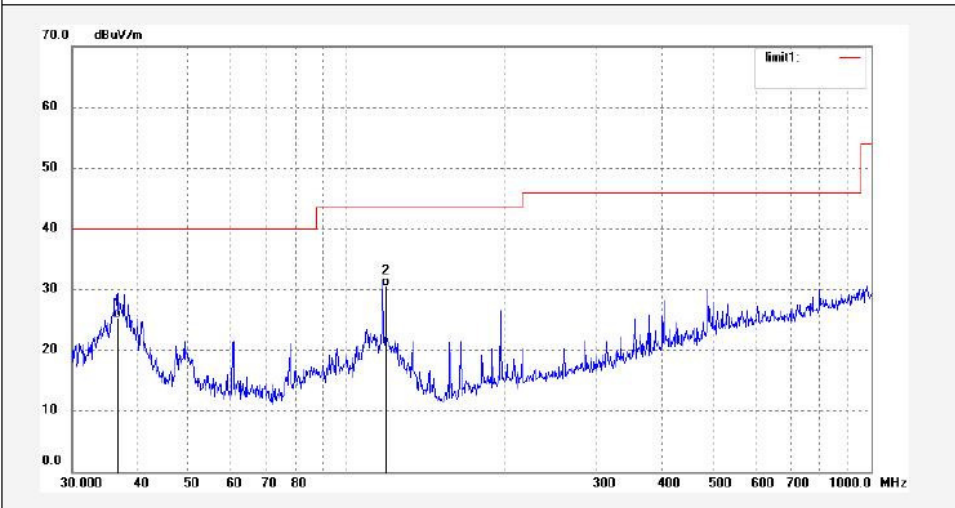


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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #1268	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2475 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.5236	35.99	-10.75	25.24	40.00	-14.76	QP			
2	119.4255	43.73	-13.15	30.58	43.50	-12.92	QP			

**Figure 16: Test figure of radiated spurious emission outside band of docking, low channel, 1GHz-18GHz, horizontal**



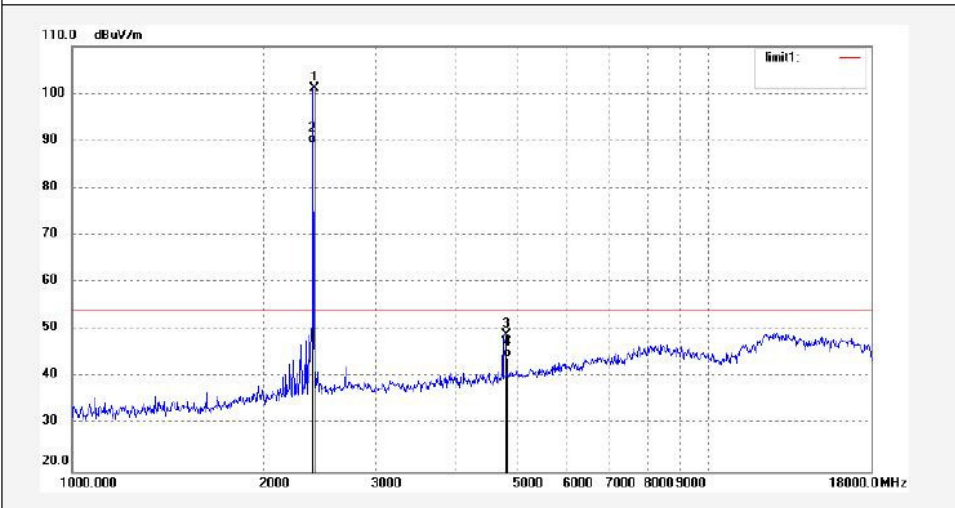
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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #1235	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2406 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2406.041	108.60	-7.44	101.16	4.00	.	peak			
2	2406.041	96.78	-7.44	89.34	4.00	.	AVG			
3	4812.082	49.23	-0.25	48.98	4.00	- 5.02	peak			
4	4812.082	44.45	-0.25	44.20	54.00	-9.80	AVG			

**Figure 17: Test figure of radiated spurious emission outside band of docking, low channel, 1GHz-18GHz, Vertical**

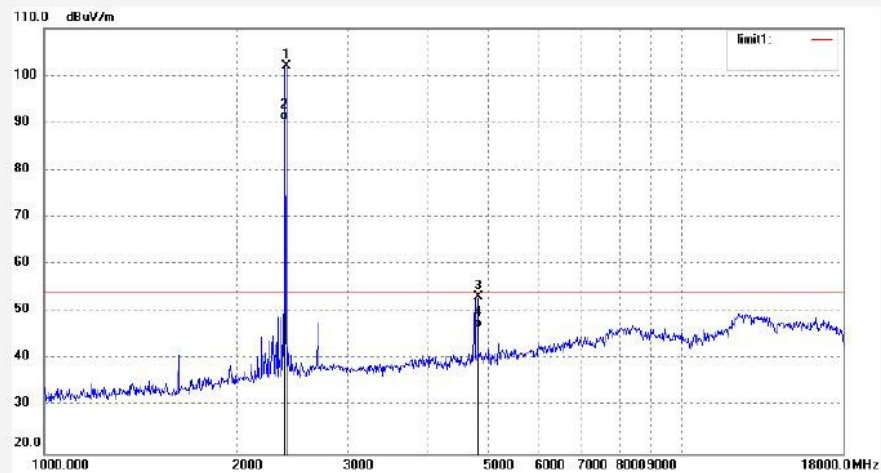


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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #1236	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2406 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2406.017	109.45	-7.44	102.01	4.00	.	peak			
2	2406.017	97.96	-7.44	90.52	4.00	.	AVG			
3	4812.035	53.36	-0.25	53.11	4.00	- 0.89	peak			
4	4812.035	46.88	-0.25	46.63	54.00	-7.37	AVG			



**Figure 18: Test figure of radiated spurious emission outside band of docking, middle channel, 1GHz-18GHz, horizontal**



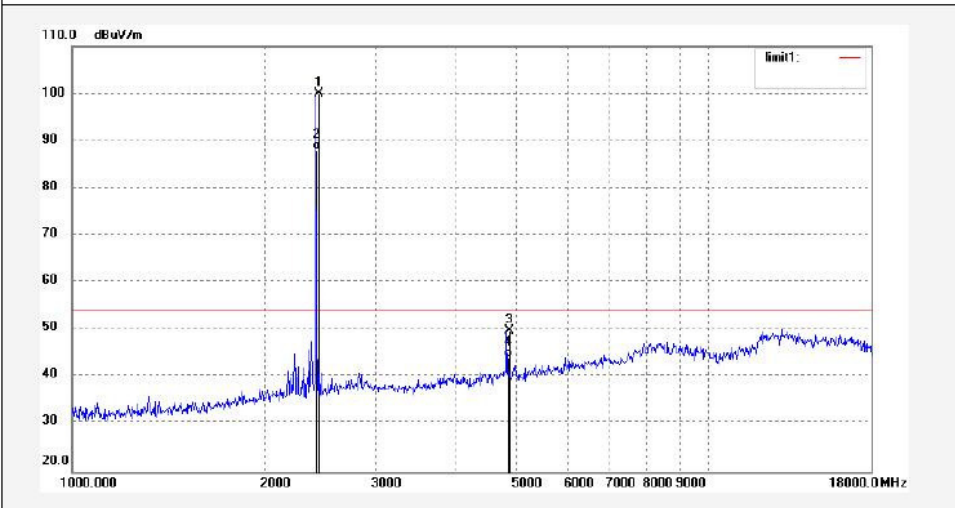
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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #1239	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2439 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2439.018	107.39	-7.36	100.03	4.00	.	peak			
2	2439.018	95.47	-7.36	88.11	4.00	.	AVG			
3	4878.034	49.68	0.11	49.79	4.00	- 4.21	peak			
4	4878.034	44.07	0.11	44.18	54.00	-9.82	AVG			

**Figure 19: Test figure of radiated spurious emission outside band of docking, middle channel, 1GHz-18GHz, vertical**



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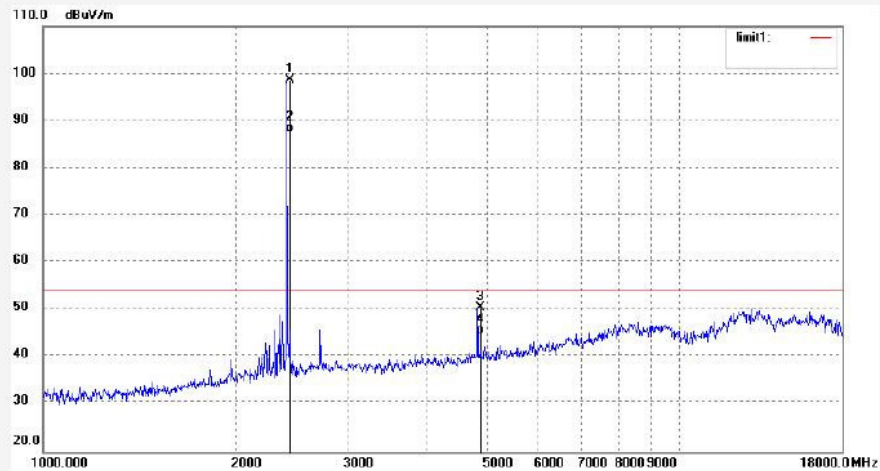
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #1240	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2439 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2439.022	105.93	-7.36	98.57	4.00	.	peak			
2	2439.022	94.87	-7.36	87.51	4.00		AVG			
3	4878.042	50.32	0.11	50.43	4.00	- 3.57	peak			
4	4878.042	44.84	0.11	44.95	54.00	-9.05	AVG			

**Figure 20: Test figure of radiated spurious emission outside band of docking, high channel, 1GHz-18GHz, vertical**



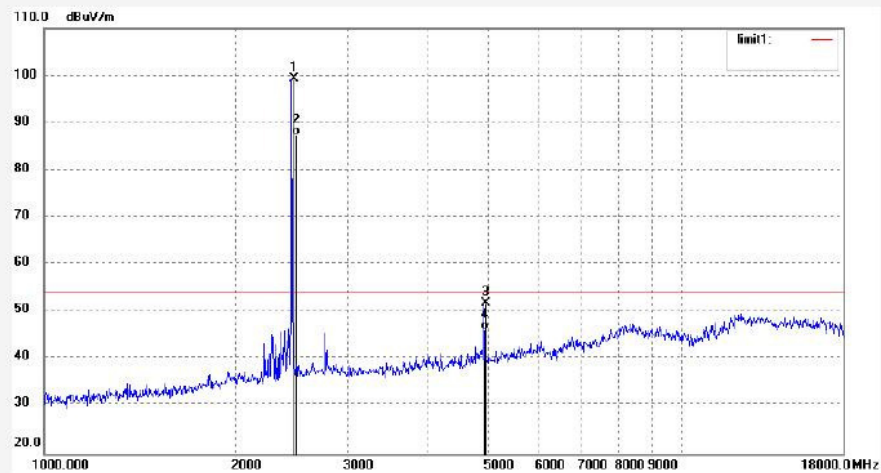
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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #1241	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2475 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2475.011	106.72	-7.36	99.36	4.00	.	peak			
2	2475.011	94.85	-7.36	87.49	4.00	.	AVG			
3	4950.023	51.46	0.47	51.93	4.00	- 2.07	peak			
4	4950.023	45.79	0.47	46.26	54.00	-7.74	AVG			

**Figure 21: Test figure of radiated spurious emission outside band of docking, high channel, 1GHz-18GHz, horizontal**

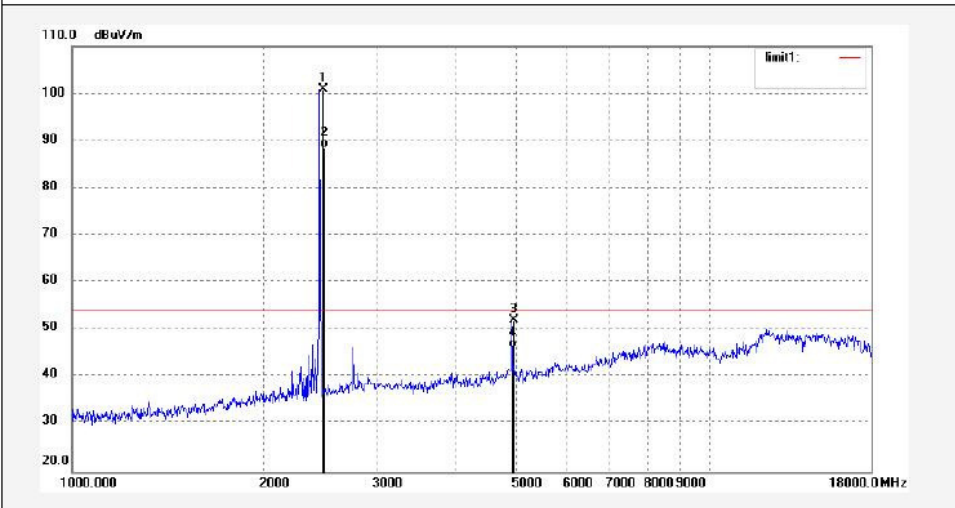


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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PHY #1242	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2475 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2475.020	108.24	-7.36	100.88	4.00	.	peak			
2	2475.020	95.96	-7.36	88.60	4.00	. 0	AVG			
3	4950.033	51.56	0.47	52.03	4.00	- 1.97	peak			
4	4950.033	45.83	0.47	46.30	54.00	-7.70	AVG			

**Figure 22: Test figure of radiated spurious emission outside band of docking, low channel, 18GHz-25GHz, horizontal**

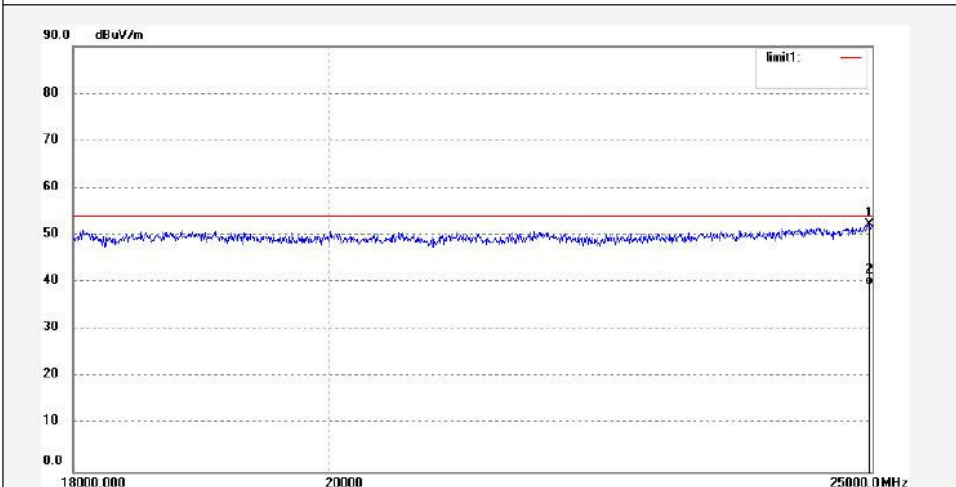


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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: PHY #1222	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2406 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24975.325	33.36	18.87	52.23	4.00	- 1.77	peak			
2	24975.325	20.57	18.87	39.44	54.00	-14.56	AVG			

**Figure 23: Test figure of radiated spurious emission outside band of docking, low channel, 18GHz-25GHz, vertical**

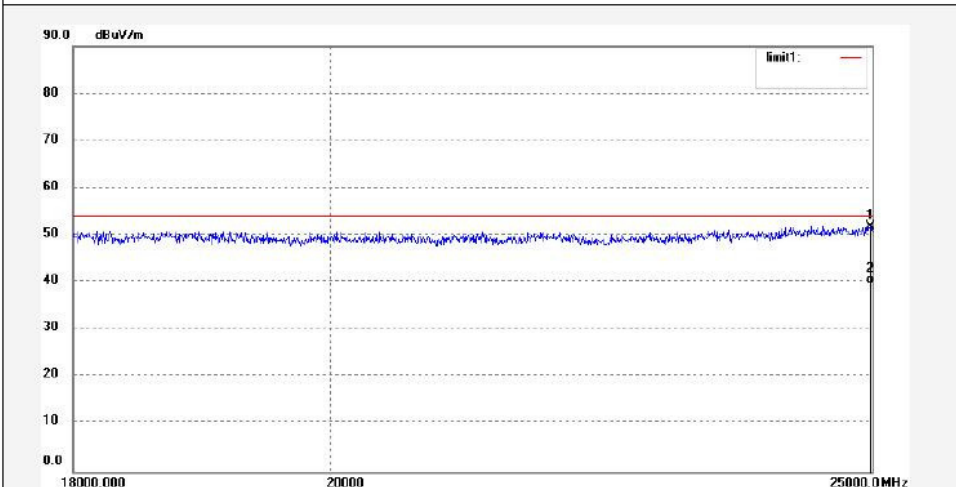


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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: PHY #1223	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2406 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24983.547	32.93	18.88	51.81	4.00	- 2.19	peak			
2	24983.547	20.77	18.88	39.65	54.00	-14.35	AVG			

**Figure 24: Test figure of radiated spurious emission outside band of docking, middle channel, 18GHz-25GHz, vertical**

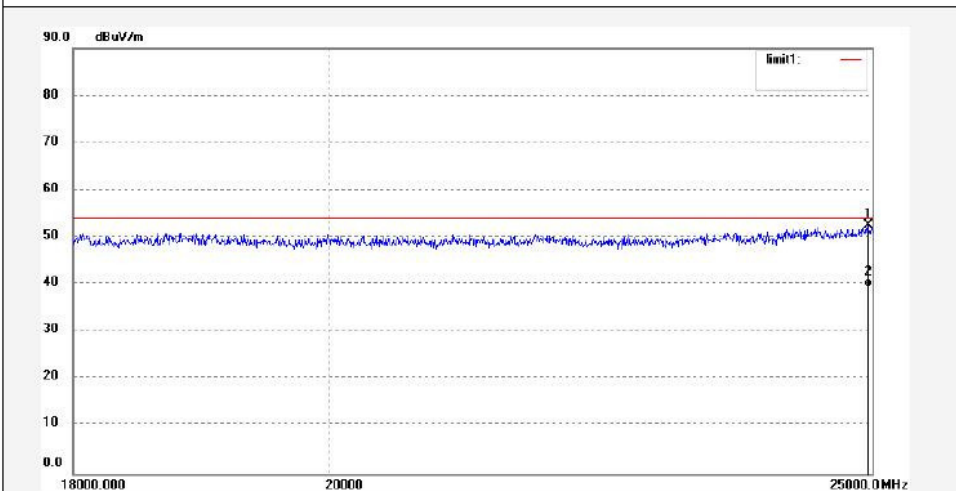


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Site: 2# Chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: PHY #1224	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2439 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24958.889	33.80	18.84	52.64	4.00	- 1.36	peak			
2	24958.889	20.63	18.84	39.47	54.00	-14.53	AVG			

**Figure 25: Test figure of radiated spurious emission outside band of docking, middle channel, 18GHz-25GHz, horizontal**

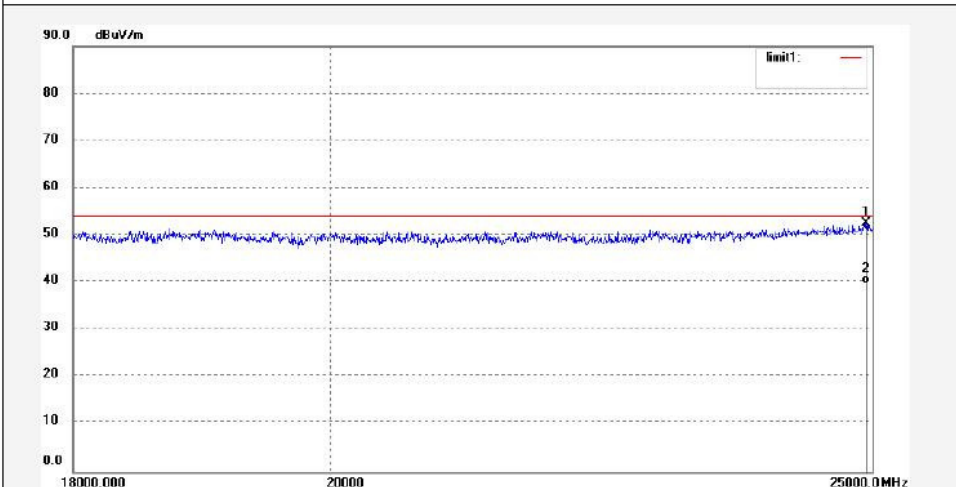


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Site: 2# Chamber  
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 Fax:+86-0755-26503396

Job No.: PHY #1225	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2439 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24942.463	33.72	18.82	52.54	4.00	- 1.46	peak			
2	24942.463	20.97	18.82	39.79	54.00	-14.21	AVG			



**Figure 26: Test figure of radiated spurious emission outside band of docking, high channel, 18GHz-25GHz, horizontal**

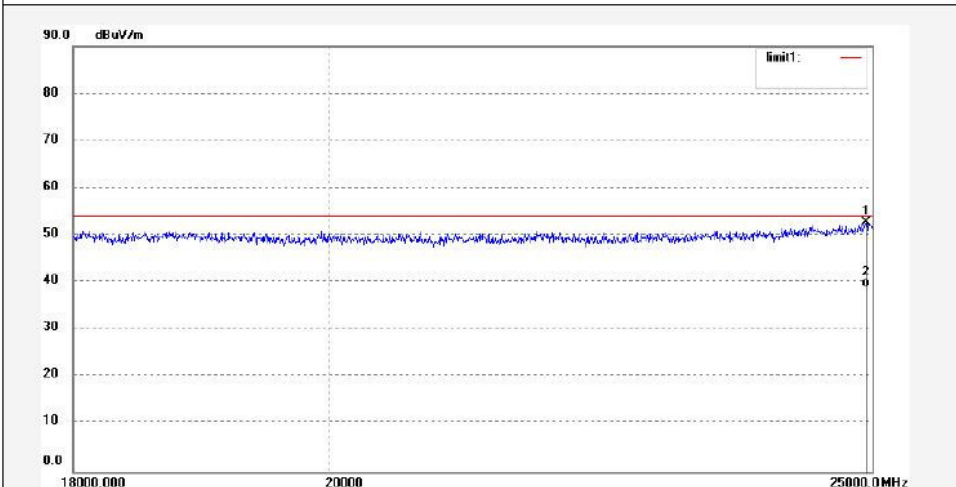


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Site: 2# Chamber  
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Job No.: PHY #1226	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2475 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24942.463	33.94	18.82	52.76	4.00	- 1.24	peak			
2	24942.463	20.24	18.82	39.06	54.00	-14.94	AVG			

**Figure 27: Test figure of radiated spurious emission outside band of docking, high channel, 18GHz-25GHz, vertical**

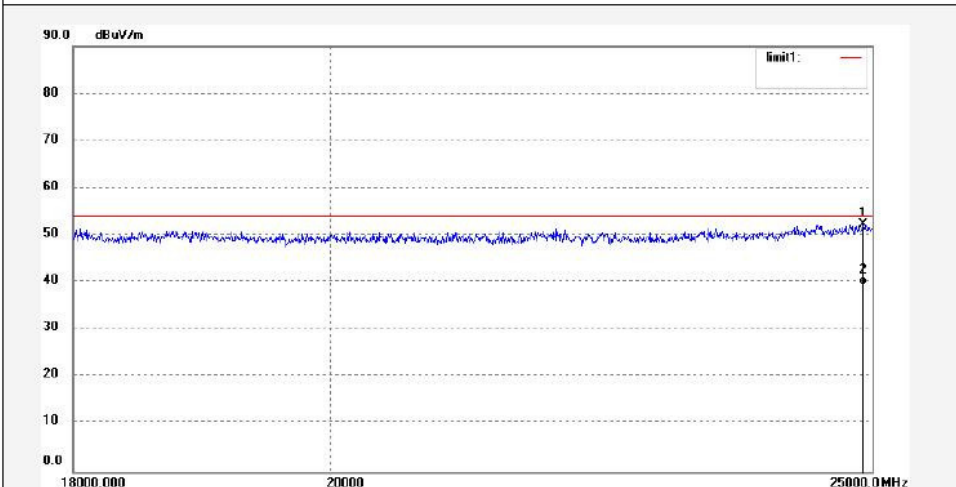


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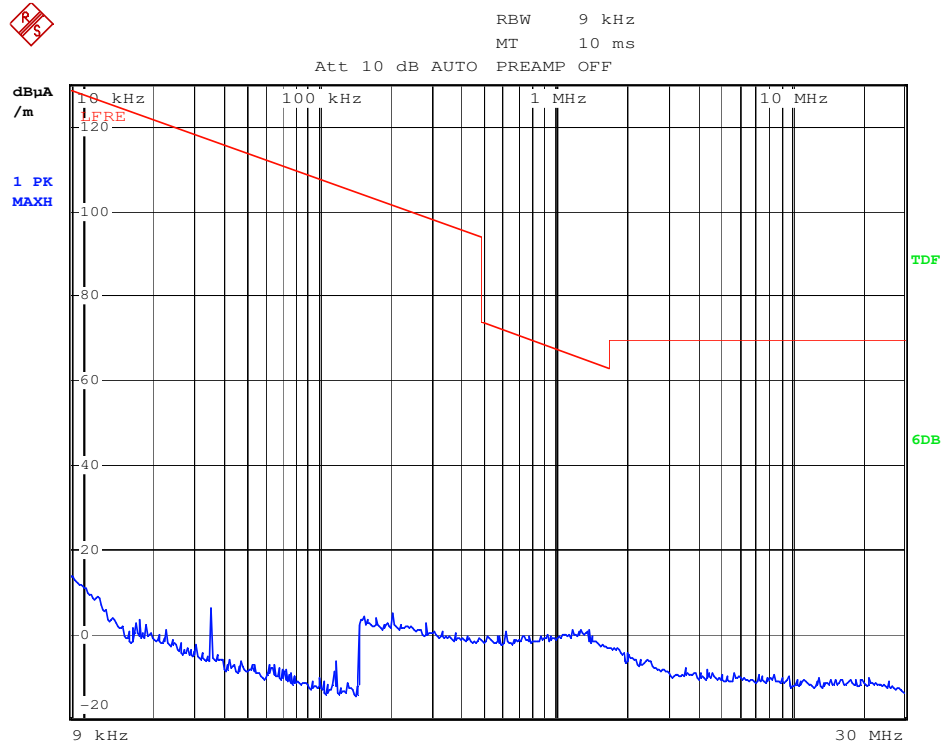
Job No.: PHY #1227	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2475 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Docking



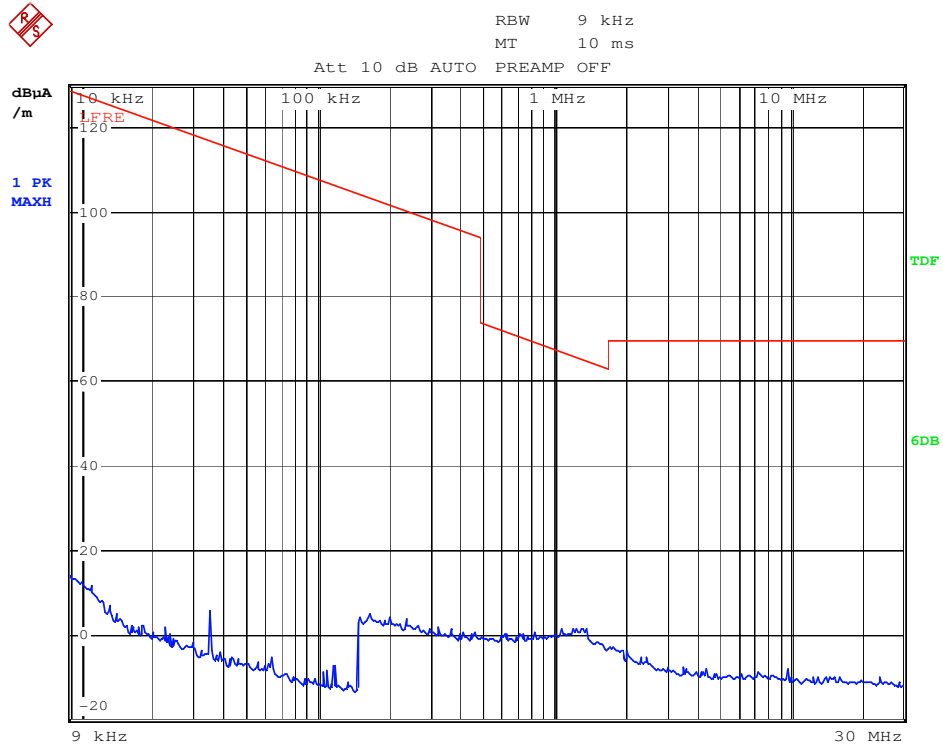
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24909.644	33.55	18.77	52.32	4.00	- 1.68	peak			
2	24909.644	20.64	18.77	39.41	54.00	-14.59	AVG			

**Figure 28: Test figure of radiated spurious emission outside band of headphone, low channel, 9 KHz-30MHz, X Axis**



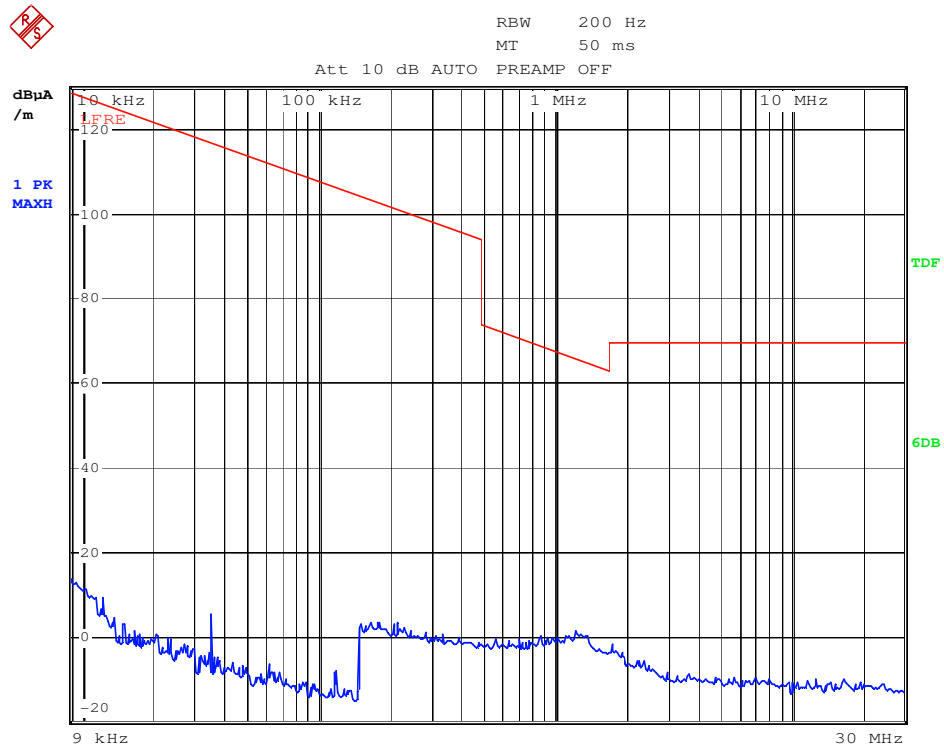
Date: 13.APR.2014 17:50:03

Figure 29: Test figure of radiated spurious emission outside band of headphone, low channel, 9 KHz-30MHz, Y Axis



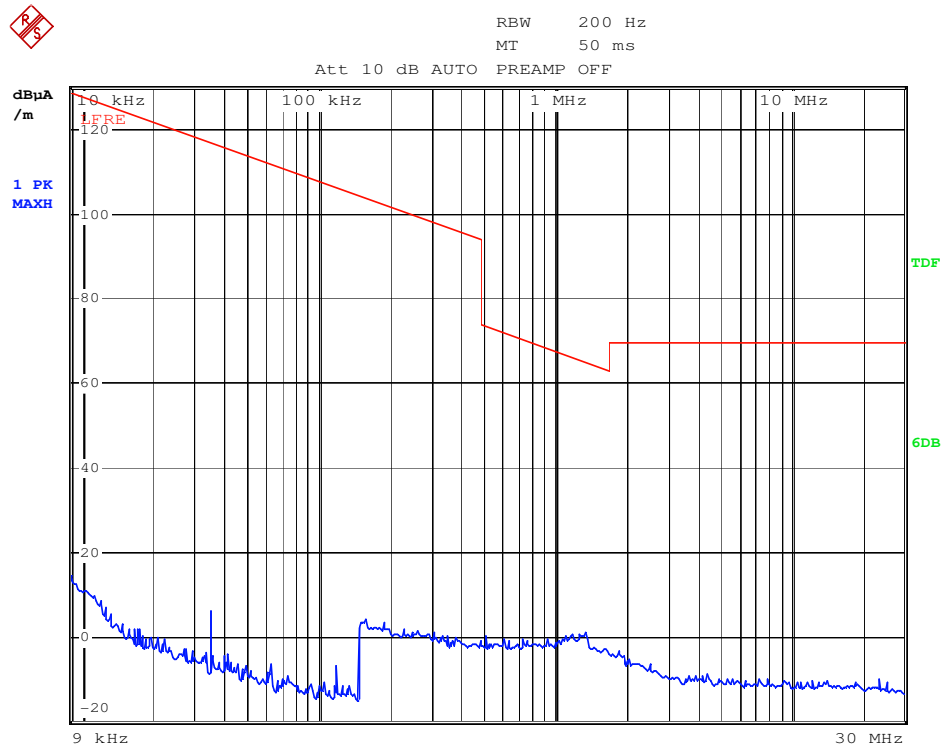
Date: 13.APR.2014 18:01:59

Figure 30: Test figure of radiated spurious emission outside band of headphone, low channel, 9 KHz-30MHz, Z Axis



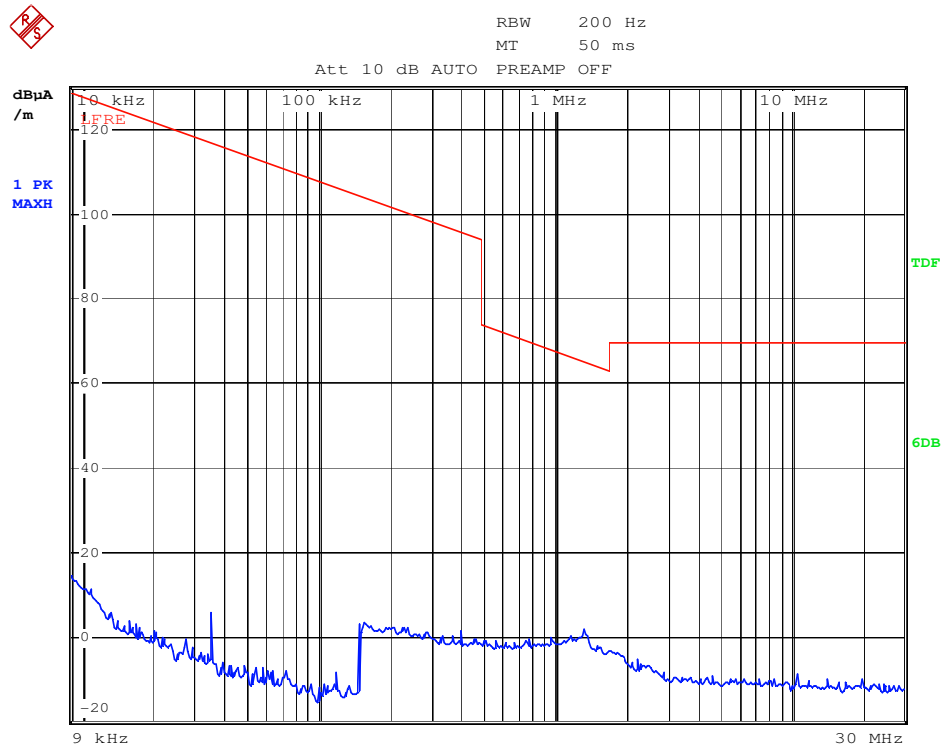
Date: 13.APR.2014 18:04:00

Figure 31: Test figure of radiated spurious emission outside band of headphone, middle channel, 9 KHz-30MHz, X Axis



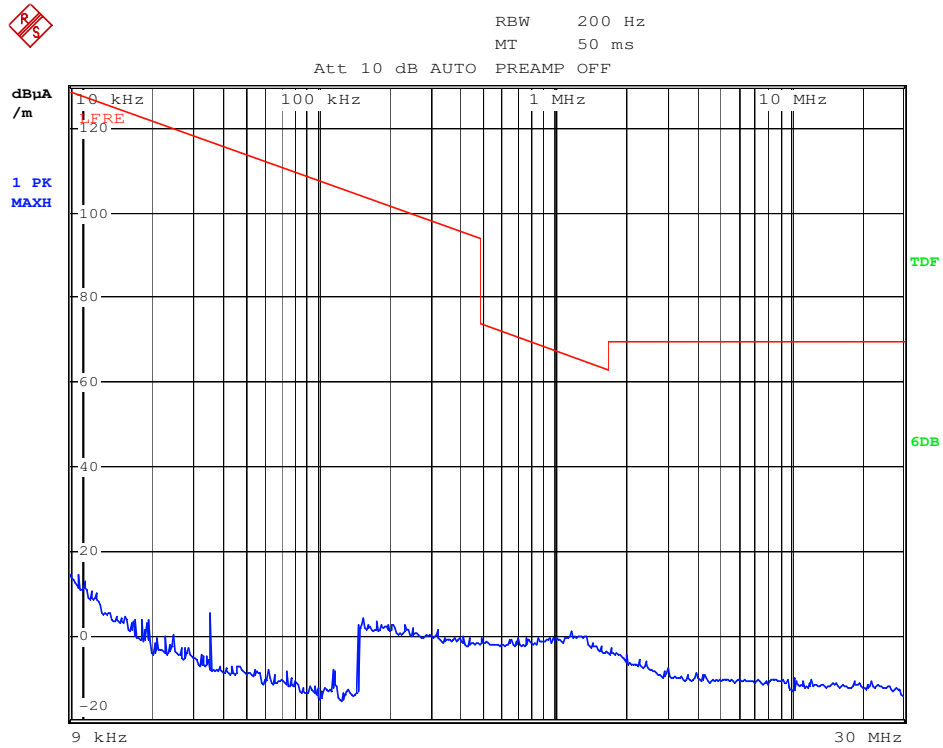
Date: 13.APR.2014 18:06:00

Figure 32: Test figure of radiated spurious emission outside band of headphone, low channel, 9 KHz-30MHz, Y Axis



Date: 13.APR.2014 18:08:16

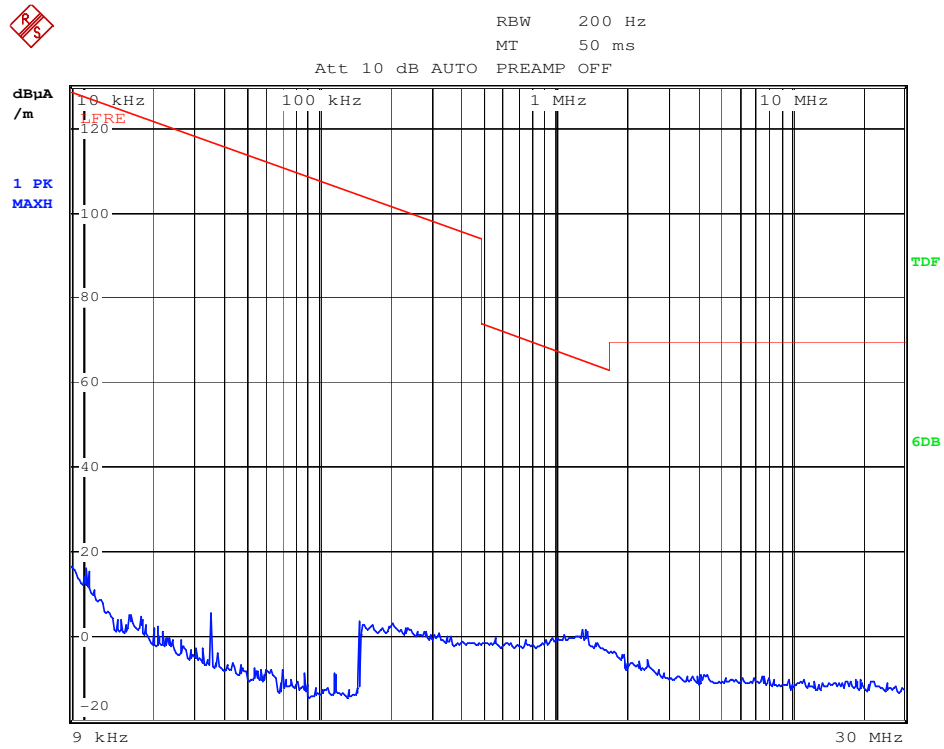
Figure 33: Test figure of radiated spurious emission outside band of headphone, low channel, 9 KHz-30MHz, Z Axis



Date: 13.APR.2014 18:10:21

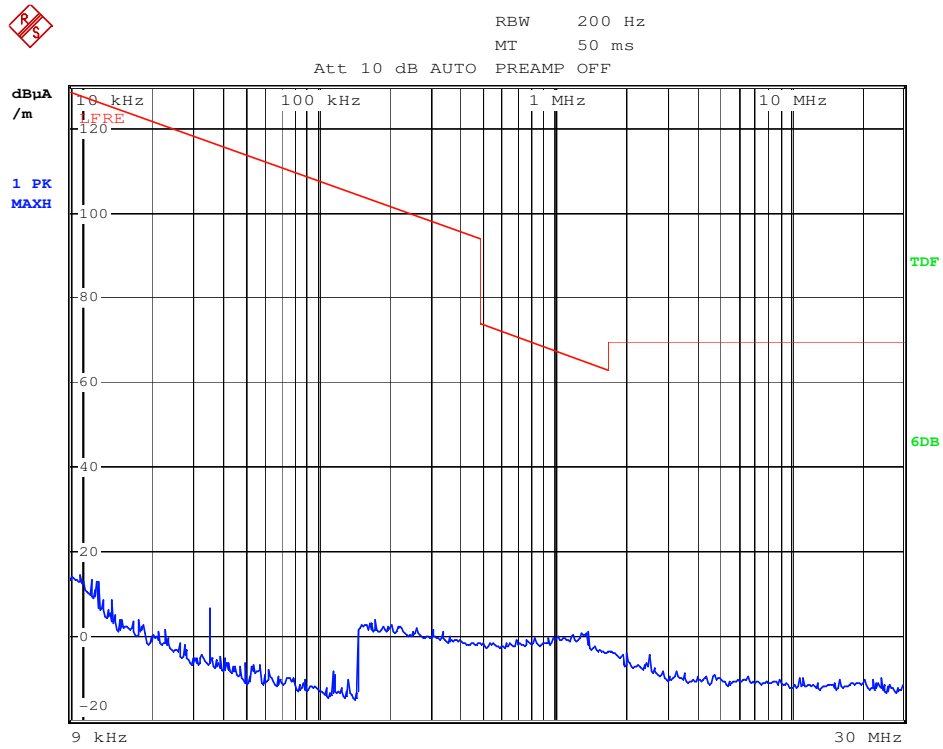


Figure 34: Test figure of radiated spurious emission outside band of headphone, high channel, 9 KHz-30MHz, X Axis



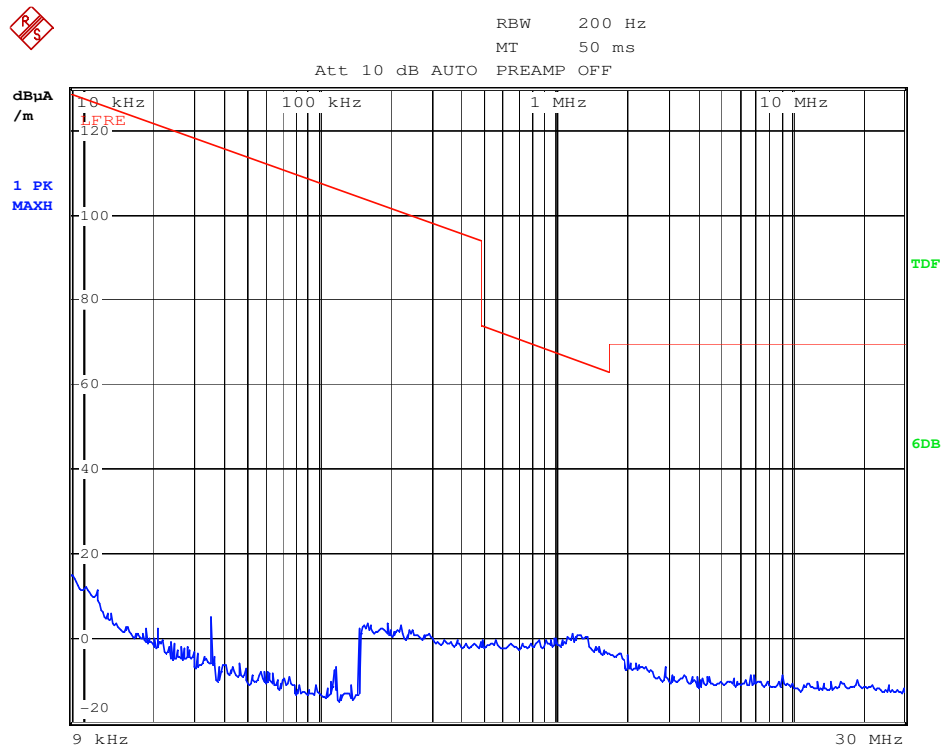
Date: 13.APR.2014 18:12:26

Figure 35: Test figure of radiated spurious emission outside band of headphone, high channel, 9 KHz-30MHz, Y Axis



Date: 13.APR.2014 18:14:40

Figure 36: Test figure of radiated spurious emission outside band of headphone, high channel, 9 KHz-30MHz, Z Axis



Date: 13.APR.2014 18:16:46

**Figure 37: Test figure of radiated spurious emission outside band of headphone, low channel, 30MHz-1000MHz, horizontal**

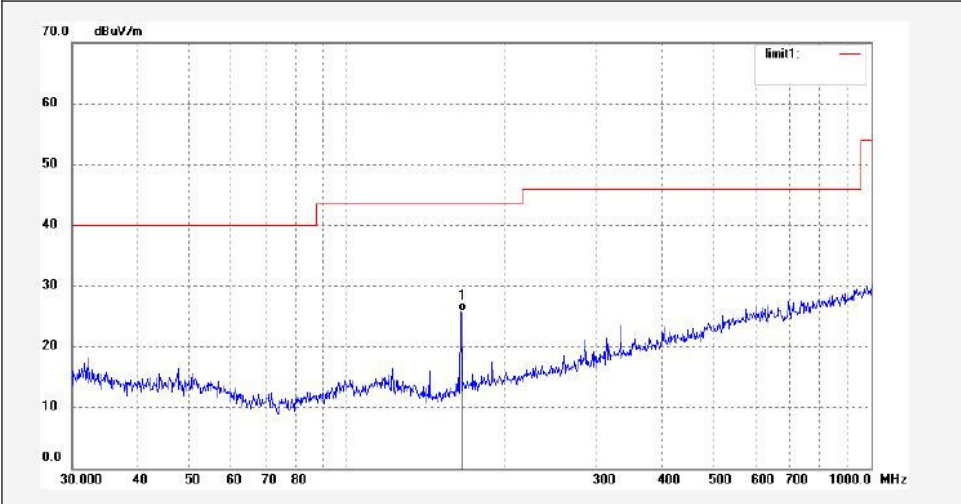


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Job No.: PHY #1251	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2406 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Headphones



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	168.0064	39.88	-13.99	25.89	43.50	-17.61	QP			

**Figure 38: Test figure of radiated spurious emission outside band of headphone, low channel, 30MHz-1000MHz, vertical**

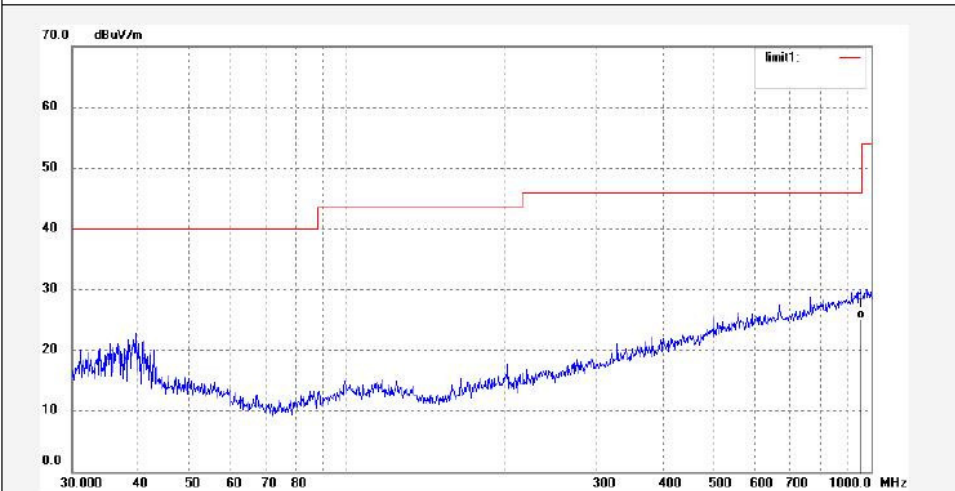


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Job No.: PHY #1252	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/13/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Digital Wireless Stereo Hea	Engineer Signature: PEI
Mode: TX 2406 MHz	Distance: 3m
Model: NS-WHP314	
Manufacturer: Compupal (Group) Corporation	

Note: Headphones



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	960.0000	22.68	2.37	25.05	46.00	-20.95	QP			