



RC-032-GNE-12-106916-1-A

## E.M.C. TESTS REPORT

According to the standard:

FCC PART 15 : 2012

Equipment under test:

MP3 Player with LED lights PSIO

Company:


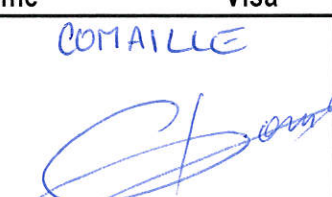
PSYCHOMED.COM

FCC Listed: 910 701

Distribution: Mr DUMONCEAU-KRSMANOVIC

(Company: PSYCHOMED.COM)

Number of pages: 16 with 1 annex

Ed.	Date	Modified page(s)	Written by		Technical Verification and Quality Approval	
			Name	Visa	Name	Visa
0	28/12/12	Creation	G. RENAUD 		COMAILLE 	

Duplication of this report is only permitted for an integral photographic facsimile. It includes the number of pages referenced above. This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of the whole production of the item tested.



**NAME OF THE EQUIPMENT UNDER TEST (E.U.T.)** : MP3 Player with LED lights PSIO

**Serial number** : 8C4A80000000871-1

**Part number** : XXXXX0000000871-1

**Software Version** : Not communicated

**MANUFACTURER'S NAME** : PSYCHOMED.COM

**APPLICANT'S ADDRESS:**

**Company** : PSYCHOMED.COM

**Address** : Psychomed.com S.A  
Vieux Chemin de Wavre 117a  
1380 Ohain  
Belgium

**Person present during the tests** : -

**Responsible** : Mr DUMONCEAU-KRSMANOVIC

**DATES OF TESTS** : 26<sup>th</sup> and 27<sup>th</sup>, december, 2012

**TESTS LOCATIONS** : Laboratory EMITECH at Montigny Le Bretonneux and in Open area test site at Aunainville (28) in FRANCE

**TESTS OPERATOR** : G. RENAUD

<b>CONTENTS</b>
-----------------

<b>1. INTRODUCTION</b>	<b>4</b>
<b>2. REFERENCE DOCUMENT</b>	<b>4</b>
<b>3. EQUIPMENT UNDER TEST CONFIGURATION</b>	<b>4</b>
<b>4. SUMMARY OF TESTS RESULTS</b>	<b>5</b>
<b>5. MEASUREMENT OF ELECTROMAGNETIC FIELD IN OPEN AREA TEST SITE</b>	<b>6</b>
<b>6. CONDUCTED EMISSION</b>	<b>8</b>

**ANNEX : PHOTOGRAPHIES**

**1. INTRODUCTION**

This document submits the results of Electromagnetic Compatibility tests performed on the equipment « **MP3 Player with LED lights PSIO**» (denominated hereafter E.U.T.: equipment under test) according to document(s) listed below.

**2. REFERENCE DOCUMENT****FCC PART 15 : 2012**

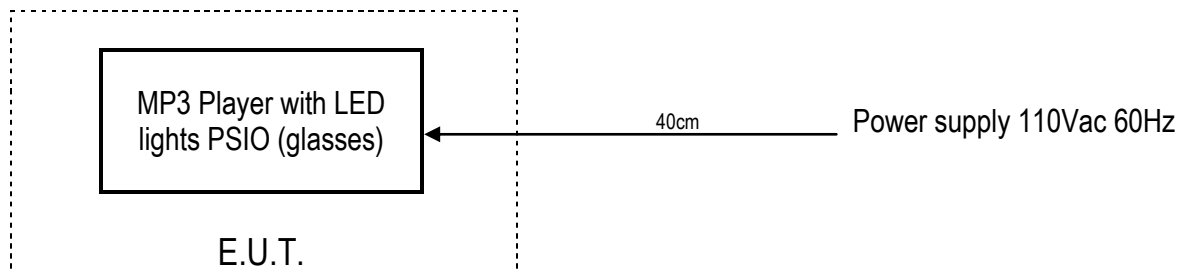
Code of federal regulations

Title 47- Telecommunication Chapter 1- Federal Communication Commission

Part 15- Radio frequency devices Subpart B- Unintentional Radiators

Limits and methods of measurement of radio disturbance

Characteristic of information technology equipment.

**3. EQUIPMENT UNDER TEST CONFIGURATION****Equipment under test (E.U.T.) description:****Cycle and operating mode during emission tests:**

Operating mode: lights and music (maximum volume) with adapter AC/DC.

**4. SUMMARY OF TESTS RESULTS**

Tests designation	Results satisfying?	Comments
<b>EMISSION</b>		
Measurement of electromagnetic field in open area test site	<b>YES</b>	Class B
Conducted emission	<b>YES</b>	Class B

**N.P.: Not Performed.**

**N.A.: Not Applicable.**

▪ **In emission:**

Sample subject to the test complies with prescriptions of the standard:

- FCC PART 15 : 2012

According to limits, specified in this tests report.

To declare or not compliance with the specification, it has not been given explicit account of the uncertainty associated with result(s).

**5. MEASUREMENT OF ELECTROMAGNETIC FIELD IN OPEN AREA TEST SITE**
**Temperature (°C):** 16.3

**Humidity (%HR):** 55

**Air pressure (hPa):** -

**Standard:** FCC Part 15 : 2012

**Test method:** Section : 15.109 for FCC Part 15

**a) Measurement on open area test site:**
**Test configuration:**

For each measured frequency, receiving antenna height varies between 1 meter and 4 meters, E.U.T. is set on a turntable in order to find the highest level.

Frequency band	Initial position	Resolution bandwidth	Measuring distance	Detection mode	E.U.T. height
30 MHz – 1 GHz	0°=front side	120 kHz	10 m	Quasi-peak	80cm

**Test method deviation:** No

**Test equipment list:**

CATEGORY	BRAND	TYPE	N° EMITECH
AC power source	SECAS	CF1000 50/60	2102
Antenna	Schwarzbeck	VHA 9103	0317
Antenna	Schwarzbeck	UHALP 9108	3106
Antenna mast	Maturo	AM 4.0-O	7625
Cable	Câbles & Connectiques	N-13m	2452
Cable	-	N-2m	2805
Cable	-	N-8m	8019
Cable	-	N-8m	8020
Contrôleur mât	Maturo	MCU	7626
LISN	Rolf Heine	CISPR 16-1-2	5768
Open area test site	Emitech	Aunainville	0187
Receiver	Rohde & Schwarz	ESVS10	1216
Thermohygrobaromètre	La Crosse Technologie	WS-7014-IT	6818

**Results:** See table hereafter.

FREQUENCY (MHz)	POLARIZATION	ANTENNA HEIGHT (cm)	AZIMUT (degrees)	MEASURE (dB $\mu$ V/m)	LIMIT (dB $\mu$ V/m)
48	V	100	90	29.2	30
48	H	400	290	22.4	30
392.5	V	370	177	30.5	36

<b>6. CONDUCTED EMISSION</b>
------------------------------

**Standard:** FCC PART 15 : 2012

**Test method:** Section § 107 for FCC Part 15

**Test configuration:**

Tested cable	Measure with	E.U.T. height
Power Supply 110 Vac, 60 Hz	L.I.S.N.	80cm

Frequency band	Tested cable	Resolution bandwidth	Video bandwidth
150kHz - 1MHz	Power Supply 110 Vac	10kHz	30kHz
1MHz - 30MHz	Power Supply 110 Vac	10kHz	30kHz

**Test method deviation:** No

**Test equipment list:**

CATEGORY	BRAND	TYPE	N° EMITECH
Cable	-	N-4m	2808
Enceinte d'essais	Emitech	JD	1804
Limiter	Hewlett Packard	11947A	1061
LISN	Rohde & Schwarz	ESH2-Z5	0326
Power supply	CHROMA	6415	5331
QP Adapter	Hewlett Packard	85650A	3286
Software	Nexio	BAT EMC v3.6.0.24	0000
Spectrum analyzer	Hewlett Packard	HP 8568 B	0004
Thermohygromètre	Testo	608-H1	7552

**Results:**

See curves hereafter. Limits on the curves are average limit (green) and quasi-peak limit (blue).

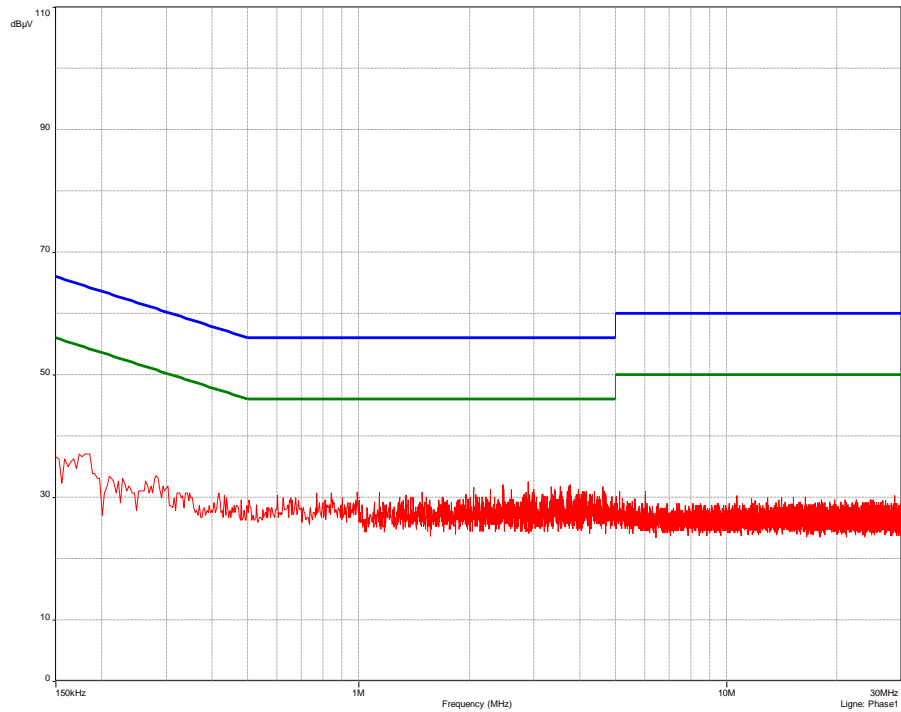
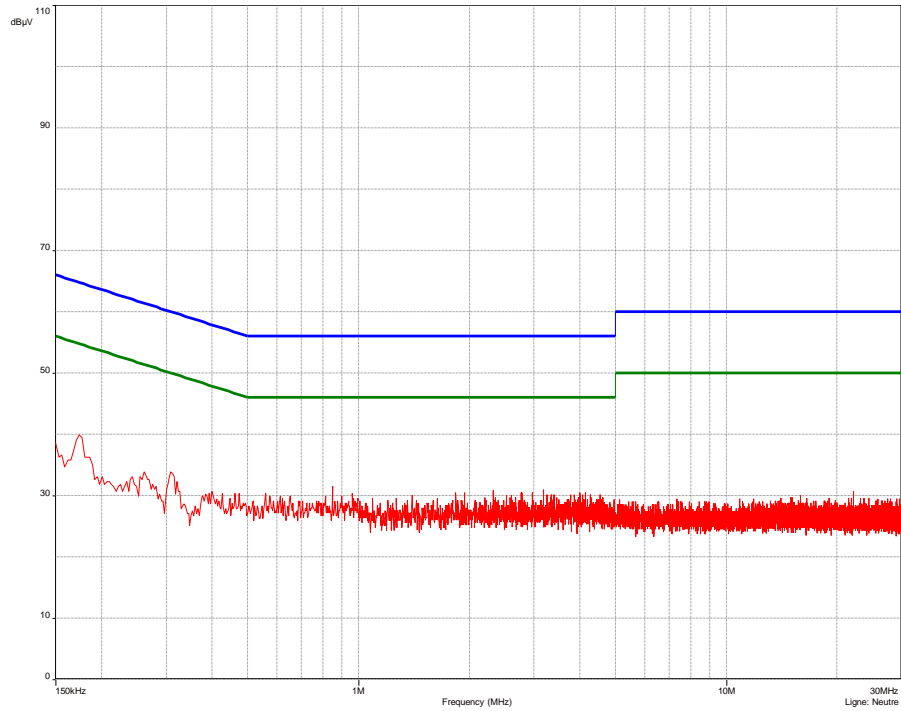


Curves 1 and 2

**MP3 Player with LED lights PSIO**

Conducted voltage emission (measurement): Power Supply 110 Vac 60 Hz in peak detection.

27/12/2012



Class: B of the standard

□□□ End of report - 1 annex to be forwarded □□□

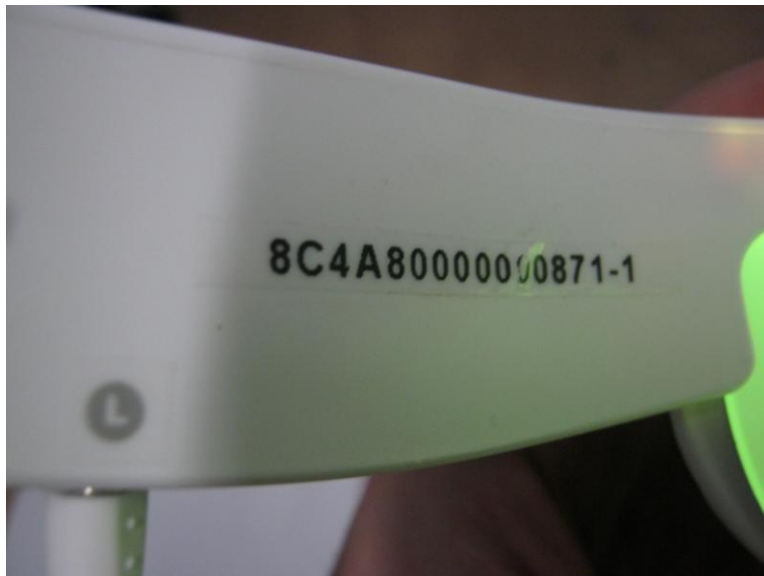
# **ANNEX: PHOTOGRAPHIES**

EQUIPMENT UNDER TEST (E.U.T.) PHOTOGRAPHIES

MP3 Player with LED lights PSIO

E.U.T. Photographies :





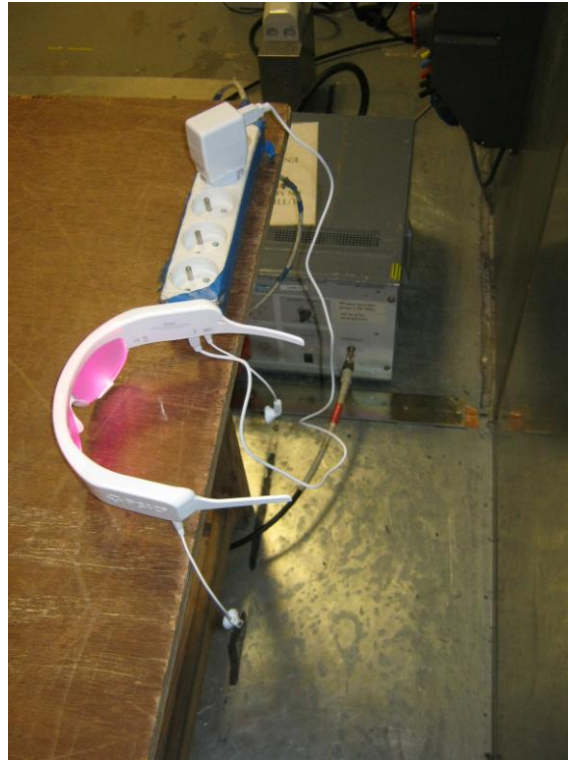
**Measurement of electromagnetic field in open area test site :**

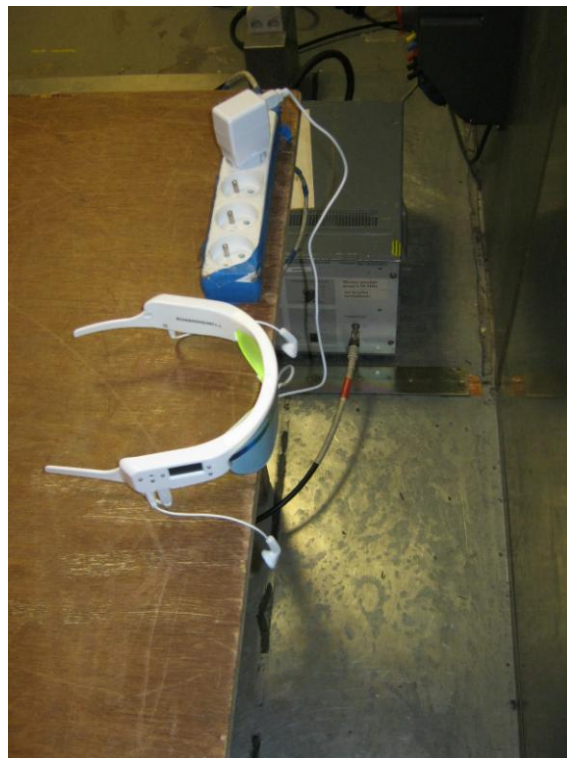






**Conducted emission:**





Power Supply 110 Vac – 60 Hz