

Maximum Permissible Exposure

Equipment : PLAYR

Brand Name : Catapult

Model No. : PD001

FCC ID : 2AELY-PD001

Standard: 47 CFR Part 2.1091

Applicant : KODAPLAY LIMITED

Unit 1, Block 1, Quayside Business Park, Mill

Street Dundalk, Co Louth Ireland

Manufacturer : XAVi Technologies Corporation

22F., No.69, Sec. 2, Guangfu Rd., Sanchong Dist.,

New Taipei City 241, Taiwan

The product sample received on Dec. 01, 2017 and completely tested on Dec. 13, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in IEEE C95.1 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Kevin Liang / Assistant Manager

lac-MRA





Maximum Permissible Exposure

Table of Contents

1	HUMAN EXPOSURE ASSESSMENT	4
1.1	Maximum Permissible Exposure	
1.2	Accessories and Support Equipment	
1.3	Testing Location Information	5
1.4	The Worst Charging Condition	5
2	TEST EQUIPMENT AND CALIBRATION DATA	8

APPENDIX A. TEST PHOTOS

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : 2 of 8

Report Version : Rev. 01

Report Template No.: HE1-A2 Ver1.0



Maximum Permissible Exposure

Revision History

Report No.	Version	Description	Issued Date
FA7N2922-02	Rev. 01	Initial issue of report	Mar. 01, 2018

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : 3 of 8
Report Version : Rev. 01

Report Template No.: HE1-A2 Ver1.0



1 Human Exposure Assessment

1.1 Maximum Permissible Exposure

1.1.1 Limit of Maximum Permissible Exposure

	Limits for Occupational / Controlled Exposure							
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)				
0.3-3.0	614	1.63	(100)*	6				
3.0-30	1842 / f	4.89 / f	(900 / f ²)*	6				
30-300	61.4	0.163	1.0	6				
300-1500	-	-	F/300	6				
1500-100,000	-	-	5	6				
	Limits for General	Population / Uncont	rolled Exposure					
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)				
0.3-1.34	614	1.63	(100)*	30				
1.34-30	824/f	2.19/f	(180/f ²)*	30				
30-300	27.5	0.073	0.2	30				
300-1500	-	-	F/1500	30				
1500-100,000	-	-	1.0	30				

Report No.: FA7N2922-02

Note 1: f = frequency in MHz; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310

1.1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v02 - Part 2 Section 2.109

 SPORTON INTERNATIONAL INC.
 Page No.
 : 4 of 8

 TEL: 886-3-327-3456
 Report Version
 : Rev. 01

 FAX: 886-3-327-0973
 Report Template No.: HE1-A2 Ver1.0

1.2 Accessories and Support Equipment

Accessories					
USB Cable	Brand Name	-	Model Name	-	
USB Cable	Signal Line	0.36 meter, shielde	ed cable, w/o fer	rite core	
PLAYR	Brand Name	Catapult	Model Name	PR001	

Report No.: FA7N2922-02

Note: Regarding to more detail and other information, please refer to user manual.

	Support Equipment							
No.	No. Equipment Brand Name Model Name FCC ID							
1	Notebook	DELL	E5410	DoC				
2	Adapter for NB	DELL	HA65NM130	DoC				

1.3 Testing Location Information

	Testing Location						
	HWA YA ADD : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.						
	TEL : 886-3-327-3456						
	Test site Designation No. TW1190 with FCC.						
Т	Test Condition Test Site No. Test Engineer Test Environment Test Date						
RF Conducted			TH06-HY	Barry	23.7°C / 61%	13/Dec/2017	

1.4 The Worst Charging Condition

Ancillary Equipment	Charging Condition	Worst Charging Condition
Fixture Load	Charging Mode	Charging Mode

1.4.1 Test Method

	Test Method
\boxtimes	Performed aggregate both leakage E-field and H-field at surrounding the device from all simultaneous transmitting coils.
	During testing, the EUT was placed on a non-conductive table top and the ancillary equipment (e.g., mobile phone) was placed on the EUT for charging. Maximum E-field and H-field measurements were tested 10 cm from each side of the EUT. Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

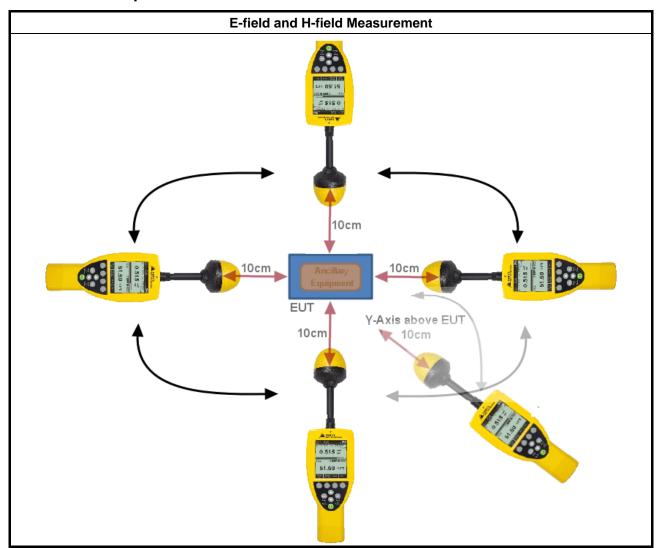
 SPORTON INTERNATIONAL INC.
 Page No. : 5 of 8

 TEL: 886-3-327-3456
 Report Version : Rev. 01

 FAX: 886-3-327-0973
 Report Template No.: HE1-A2 Ver1.0



1.4.2 Test Setup



TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : 6 of 8

Report Version : Rev. 01

Report Template No.: HE1-A2 Ver1.0

1.4.3 Result of Maximum Permissible Exposure

Maximum Permissible Exposure (145.4 kHz)							
Charging Condition	Separation	E-field (V/m)	H-field Limit (A/m)				
10%	10cm	Left	0.46	0.001			
10%	10cm	Right	0.45	0.001			
10%	10cm	Тор	0.48	0.001			
10%	10cm	Bottom	0.46	0.001			
10%	10cm	Y-axis above EUT	0.50	0.001			
	Limit	614	1.63				
	Margin Limit (0.08%	0.08%				

Report No.: FA7N2922-02

Maximum Permissible Exposure (145.4 kHz)							
Charging Condition	Separation	Probe from EUT Side	E-field (V/m)	H-field Limit (A/m)			
50%	10cm	Left	0.50	0.001			
50%	10cm	Right	0.46	0.001			
50%	10cm	Тор	0.49	0.001			
50%	10cm	Bottom	0.48	0.001			
50%	10cm	Y-axis above EUT	0.50	0.001			
	Limit	614	1.63				
	Margin Limit ((%)	0.08%	0.08%			

Maximum Permissible Exposure (145.4 kHz)							
Charging Condition Separation Probe from EUT Si			E-field (V/m)	H-field Limit (A/m)			
90%	10cm	Left	0.48	0.001			
90%	10cm	Right	0.48	0.001			
90%	10cm	Тор	0.50	0.001			
90%	10cm	Bottom	0.45	0.001			
90%	10cm	Y-axis above EUT	0.46	0.001			
	Limit	614	1.63				
	Margin Limit (0.08%	0.08%				

Page No.

Report Version

: 7 of 8

: Rev. 01

Report Template No.: HE1-A2 Ver1.0

SPORTON INTERNATIONAL INC.
TEL: 886-3-327-3456

FAX : 886-3-327-0973



2 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Probe EF	Narda Safety Test Solutions GmbH	0391 E-Field	D-0667	0.1MHz ~ 3GHz	09/Jun/2016	08/Jun/2018
Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-550	E-0847	0.1MHz ~ 3GHz	09/Jun/2016	08/Jun/2018

Report No.: FA7N2922-02

 SPORTON INTERNATIONAL INC.
 Page No. : 8 of 8

 TEL: 886-3-327-3456
 Report Version : Rev. 01

 FAX: 886-3-327-0973
 Report Template No.: HE1-A2 Ver1.0