

EUT Specification

FCC ID: 2AU7DFL048624

Characteristics	Description
Product Name	4-in-1 Power Station
Model number	FL048624, PYS-WPC21039-01
Power Supply	AC120V/60Hz for adapter
Operating Frequency Range	127.7KHz for iphone 326.5KHz for Apple Watch 127.7KHz for Airpods
Modulation Technique	FSK
Antenna Type	Induction coil
Device category	 Portable (<20cm separation) Mobile (>20cm separation) Others
Exposure classification	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Antenna diversity	 □Single antenna ☑Multiple antennas □Tx diversity □Rx diversity □Tx/Rx diversity
Evaluation applied	MPE Evaluation □SAR Evaluation

Applicable Standard:

FCC Part 1(1.1310) , Part 2(2.1091) and KDB 680106 D01 RF Exposure Wireless Charging Apps v03

Applicable Requirement:

Three different categories of transmitters are defined by the FCC in OET Bulletin 65.



These categories are fixed installation, mobile, and portable and are defined as follows:

Fixed Installations: fixed location means that the device, including its antenna, is physically secured at a permanent location and is not able to be easily moved to another location. Additionally, distance to humans from the antenna is maintained to at least 2 meters.

Mobile Devices: a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to be generally used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structures and the body of the user or nearby persons. Transmitters designed to be used by consumers or workers that can be easily re-located, such as a wireless modem operating in a laptop computer, are considered mobile devices if they meet the 20 centimeter separation requirement. The FCC rules for evaluating mobile devices for RF compliance are found in 47 CFR §2.1091.

Portable Devices: a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user. Portable device requirements are found in Section 2.1093 of the FCC's Rules (47 CFR§2.1093).

The FCC also categorizes the use of the device as based upon the user's awareness and ability to exercise control over his or her exposure. The two categories defined are Occupational/ Controlled Exposure and General Population/Uncontrolled Exposure.

These two categories are defined as follows:

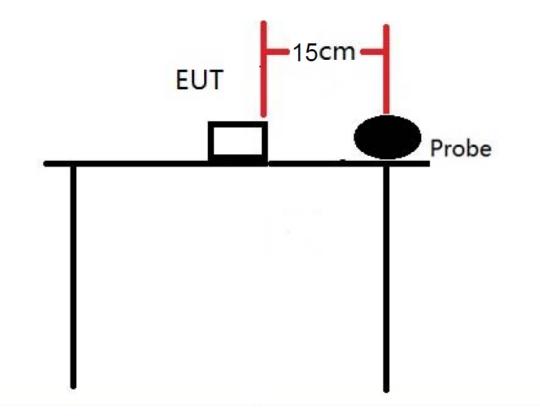
Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where

occupational/controlled limits apply provided he or she is made aware of the potential for exposure. The phrase fully aware in the context of applying these exposure limits means that an exposed person has received written and/or verbal information fully explaining the potential for RF exposure resulting from his or her employment. With the exception oftransient persons, this phrase also means that an exposed person has received appropriate training regarding work practices relating to controlling or mitigating his or her exposure. Such training is not required for transient persons, but they must receive written and/or verbal information and notification (for example, using signs) concerning their exposure potential and appropriate means available to mitigate their exposure. The phrase exercise control means that an exposed person is allowed to and knows how to reduce or avoid exposure by administrative or engineering controls and work practices, such as use of personal protective equipment or time averaging of exposure.



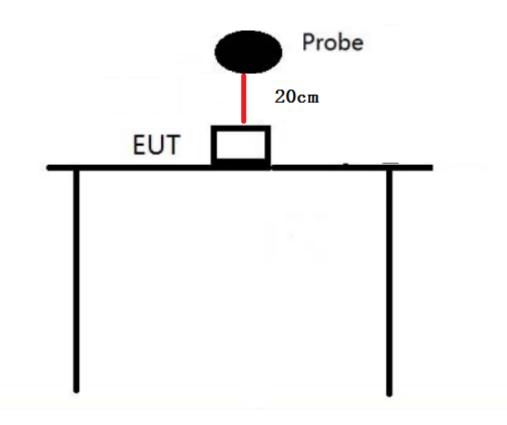
which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure. Licensees and applicants are responsible for compliance with both the occupational/controlled exposure limits and the general population/uncontrolled exposure limits as they apply to transmitters under their jurisdiction. Licensees and applicants should be aware that the occupational/controlled exposure limits apply especially in situations where workers may have access to areas in very close proximity to antennas and access to the general public may be restricted.

In lieu of evaluation with the general population/uncontrolled exposure limits, amateur licensees authorized under part 97 of this chapter and members of his or her immediate household may be evaluated with respect to the occupational/controlled exposure limits in this section, provided appropriate training and information has been provided to the amateur licensee and members of his/her household. Other nearby persons who are not members of the amateur licensee's household must be evaluated with respect to the general population/uncontrolled exposure limits.



Test Setup Block





Test Procedure

1.Connect the EUT and equipment as above diagram of test configuration.2.EUT was placed on a table, and the measure probe was placed at a measurement distance of 15cm from the EUT to the center of the probe.3.Power on the measuring probe, the EUT was set at the maximum field strength emission state.

4.The EUT was put in different directions (Left, Right, Front, Rear, Top and Bottom) toward to the measure probe. The distance from the top of the EUT to the probe is 20CM, and the distance from other directions is 15cm.Measure the value of field strength.

5.Record the worst data of the different directions.

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	Electric and					
	Magnetic Field		EHP-200A		February 15,	1 Year
V	Analyzer	Narda		180ZX11012		
	Probe(9KHz-30M				2022	
	Hz)					

Measuring Device And Test Equipment



Description of Support De	viv	ce
iPhone	:	Manufacturer: Apple Inc.
		M/N: A2404
		S/N: N/A
Adapter	:	Model number:CD272
		Input: AC 100-240V, 50/60Hz
		Manufacturer: Apple Inc.
Airpods	:	M/N:A2190
		S/N: N/A
	:	Manufacturer: Apple Inc.
Apple Watch		M/N:A1859
		S/N: N/A

Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field Magnetic Field		Power	Average						
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Time						
	(A) Limits for Occupational/Control Exposures									
0.3-3.0	614	1.63	(100)*	6						
3.0-30	1842/f	4.89/f	(900/f)*	6						
30-300	61.4	0.163	1.0	6						
300-1500				6						
1500-100000			5	6						
(B)	Limits for Gene	ral Population/Un	control Exposures							
0.3-1.34	614	1.63	(100)*	30						
1.34-30	824/f	2.19/f	(180/f)*	30						
30-300	27.5	0.073	0.2	30						
300-1500			F/1500	30						
1500-100000			1	30						

Note: f denotes for frequency in MHz.

* denotes for plane-wave equivalent power density.

Measurement Result

We pretested four modes (max load, mid load, min load, Standby) for EUT. The worst mode (max load) and worst test frequency(frequency: 127.7KHz for iphone, 326.5KHz for iwatch, 127.7KHz for Airpods)test data see the following.

Magnetic Field (H-Field) strength at 15cm from the boundaries of EUT, and 20cm from the top.

Test mode: Wireless Charging for iphone:



Test Mode: Wireless Charging 15w for 1% battery										
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)				
Measurement Point 1	Front	15	0.0371	0.01855						
Measurement Point 2	Back	15	0.0369	0.01845						
Measurement Point 3	Left	15	0.0362	0.0181	1.00	0.045				
Measurement Point 4	Right	15	0.0362	0.0181	1.63	0.815				
Measurement Point 5	Bottom	15	0.0335	0.01675	_					
Measurement Point 6	Тор	20	0.0389	0.01945						

Г	Test Mode: Wireless Charging 15w for 1% battery										
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)					
Measurement Point 1	Front	15	0.3421	0.1711							
Measurement Point 2	Back	15	0.3435	0.1718							
Measurement Point 3	Left	15	0.3520	0.1760	614	207					
Measurement Point 4	Right	15	0.3362	0.1681	614	307					
Measurement Point 5	Bottom	15	0.3102	0.1551							
Measurement Point 6	Тор	20	0.3536	0.1768							

-	Test Mode: Wireless Charging 15w for 50% battery										
		Measuring Distance(cm)	H- Field(A/ m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)					
Measurement Point 1	Front	15	0.0332	0.0166							
Measurement Point 2	Back	15	0.0334	0.0167							
Measurement Point 3	Left	15	0.0356	0.0178	4.00	0.045					
Measurement Point 4	Right	15	0.0367	0.0184	1.63	0.815					
Measurement Point 5	Bottom	15	0.0320	0.0160							
Measurement Point 6	Тор	20	0.0345	0.0173							

Test Mode: Wireless Charging 15w for 50% battery							
Measuring E- 50% Limit(V/ 50%							
Distance(cm) Field(V/ E- m) Limit(V/m)							



			m)	Field(V/		
				m)		
Measurement Point 1	Front	15	0.3424	0.1712		
Measurement Point 2	Back	15	0.3432	0.1716		307
Measurement Point 3	Left	15	0.3451	0.1726	614	
Measurement Point 4	Right	15	0.3326	0.1663	614	
Measurement Point 5	Bottom	15	0.3216	0.1608		
Measurement Point 6	Тор	20	0.3563	0.1782		

Test Mode: Wireless Charging 15w for 100% battery										
		Measuring Distance(cm)	H- Field(A/ m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)				
Measurement Point 1	Front	15	0.0335	0.0168						
Measurement Point 2	Back	15	0.0345	0.0173						
Measurement Point 3	Left	15	0.0341	0.0171	4.00	0.045				
Measurement Point 4	Right	15	0.0339	0.0170	1.63	0.815				
Measurement Point 5	Bottom	15	0.0320	0.0160	_					
Measurement Point 6	Тор	20	0.0323	0.0162						

Te	Test Mode: Wireless Charging 15w for 100% battery										
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)					
Measurement Point 1	Front	15	0.3421	0.1711							
Measurement Point 2	Back	15	0.3323	0.1662							
Measurement Point 3	Left	15	0.3236	0.1618	614	207					
Measurement Point 4	Right	15	0.3369	0.1685	614	307					
Measurement Point 5	Bottom	15	0.3203	0.1602]						
Measurement Point 6	Тор	20	0.3412	0.1706							

Test mode: Wireless Charging for Apple Watch :

Test Mode: Wireless Charging 5w for 1% battery



		Measuring Distance(cm)	H- Field(A/ m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)
Measurement Point 1	Front	15	0.0341	0.0171		0.045
Measurement Point 2	Back	15	0.0343	0.0172		
Measurement Point 3	Left	15	0.0335	0.0168	1.60	
Measurement Point 4	Right	15	0.0359	0.0180	1.63	0.815
Measurement Point 5	Bottom	15	0.0328	0.0164	_	
Measurement Point 6	Тор	20	0.0356	0.0178		

Test Mode: Wireless Charging 5w for 1% battery								
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)		
Measurement Point 1	Front	15	0.3456	0.1728				
Measurement Point 2	Back	15	0.3433	0.1717				
Measurement Point 3	Left	15	0.3363	0.1682	614	207		
Measurement Point 4	Right	15	0.3369	0.1685	614	307		
Measurement Point 5	Bottom	15	0.3231	0.1616				
Measurement Point 6	Тор	20	0.3396	0.1698				

	Test Mode: Wireless Charging 5w for 50% battery								
		Measuring Distance(cm)	H- Field(A/ m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)			
Measurement Point 1	Front	15	0.0332	0.0166					
Measurement Point 2	Back	15	0.0334	0.0167					
Measurement Point 3	Left	15	0.0341	0.0171	4.00	0.045			
Measurement Point 4	Right	15	0.0342	0.0171	1.63	0.815			
Measurement Point 5	Bottom	15	0.0316	0.0158					
Measurement Point 6	Тор	20	0.0346	0.0173					

Test Mode: Wireless Charging 5w for 50% battery



		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)
Measurement Point 1	Front	15	0.3423	0.1712	_	207
Measurement Point 2	Back	15	0.3456	0.1728		
Measurement Point 3	Left	15	0.3471	0.1736	614	
Measurement Point 4	Right	15	0.3426	0.1713	014	307
Measurement Point 5	Bottom	15	0.3169	0.1585		
Measurement Point 6	Тор	20	0.3458	0.1729		

Test Mode: Wireless Charging 5w for 100% battery								
		Measuring Distance(cm)	H- Field(A/ m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	15	0.0332	0.0166				
Measurement Point 2	Back	15	0.0342	0.0171				
Measurement Point 3	Left	15	0.0346	0.0173	4.00	0.045		
Measurement Point 4	Right	15	0.0346	0.0173	1.63	0.815		
Measurement Point 5	Bottom	15	0.0325	0.0163				
Measurement Point 6	Тор	20	0.0351	0.0176				

Т	Test Mode: Wireless Charging 5w for 100% battery								
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)			
Measurement Point 1	Front	15	0.3303	0.1652					
Measurement Point 2	Back	15	0.3314	0.1657					
Measurement Point 3	Left	15	0.3352	0.1676	614	207			
Measurement Point 4	Right	15	0.3322	0.1661	614	307			
Measurement Point 5	Bottom	15	0.3125	0.1563					
Measurement Point 6	Тор	20	0.3419	0.1710					

Test mode: Wireless Charging for Airpods

Test Mode: Wireless Gharging 10w for 1% battery



		Measuring Distance(cm)	H- Field(A/ m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)
Measurement Point 1	Front	15	0.0330	0.0165		
Measurement Point 2	Back	15	0.0326	0.0163		
Measurement Point 3	Left	15	0.0339	0.0170	1.62	0.915
Measurement Point 4	Right	15	0.0326	0.0163	1.63	0.815
Measurement Point 5	Bottom	15	0.0312	0.0156		
Measurement Point 6	Тор	20	0.0339	0.0170	1	

Test Mode: Wireless Charging 10w for 1% battery								
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)		
Measurement Point 1	Front	15	0.3458	0.1729				
Measurement Point 2	Back	15	0.3463	0.1732				
Measurement Point 3	Left	15	0.3325	0.1663	614	207		
Measurement Point 4	Right	15	0.3247	0.1624	014	307		
Measurement Point 5	Bottom	15	0.3136	0.1568				
Measurement Point 6	Тор	20	0.3427	0.1714				

-	Test Mode: Wireless Charging 10w for 50% battery								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)			
Measurement Point 1	Front	15	0.0341	0.0171					
Measurement Point 2	Back	15	0.0345	0.0173					
Measurement Point 3	Left	15	0.0343	0.0172	1.00	0.045			
Measurement Point 4	Right	15	0.0335	0.0168	1.63	0.815			
Measurement Point 5	Bottom	15	0.0315	0.0158					
Measurement Point 6	Тор	20	0.0346	0.0173					

Test Mode: Wireless Charging 10w for 50% battery						
		Measuring	E-	50%	Limit(V/	50%
		Distance(cm)	Field(V/	E-	m)	Limit(V/m)



			m)	Field(V/		
				m)		
Measurement Point 1	Front	15	0.3232	0.1616		307
Measurement Point 2	Back	15	0.3214	0.1607		
Measurement Point 3	Left	15	0.3245	0.1623	614	
Measurement Point 4	Right	15	0.3242	0.1621	014	
Measurement Point 5	Bottom	15	0.3152	0.1576	_	
Measurement Point 6	Тор	20	0.3302	0.1651		

Test Mode: Wireless Charging 10w for 100% battery								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	15	0.0328	0.0164				
Measurement Point 2	Back	15	0.0330	0.0165				
Measurement Point 3	Left	15	0.0325	0.0163	1.00	0.045		
Measurement Point 4	Right	15	0.0319	0.0160	1.63	0.815		
Measurement Point 5	Bottom	15	0.0304	0.0152]			
Measurement Point 6	Тор	20	0.0339	0.0170				

Te	Test Mode: Wireless Charging 10w for 100% battery								
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)			
Measurement Point 1	Front	15	0.3103	0.1552					
Measurement Point 2	Back	15	0.3102	0.1551					
Measurement Point 3	Left	15	0.3123	0.1562	614	207			
Measurement Point 4	Right	15	0.3141	0.1571	614	307			
Measurement Point 5	Bottom	15	0.2932	0.1466					
Measurement Point 6	Тор	20	0.3215	0.1608					

Test mode : Wireless Charging for iphone+Apple Watch+Airpods

Test Mode: iphone 15W+Apple Watch 5W+Airpods 10W for 1% battery



		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)
Measurement Point 1	Front	15	0.0371	0.0186	_	0.045
Measurement Point 2	Back	15	0.0372	0.0186		
Measurement Point 3	Left	15	0.0375	0.0188	1.00	
Measurement Point 4	Right	15	0.0379	0.0190	1.63	0.815
Measurement Point 5	Bottom	15	0.0347	0.0174		
Measurement Point 6	Тор	20	0.0385	0.0193	1	

Test Mode: iphone 15W+Apple Watch 5W+Airpods 10W for 1% battery							
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)	
Measurement Point 1	Front	15	0.3532	0.1766			
Measurement Point 2	Back	15	0.3541	0.1771		207	
Measurement Point 3	Left	15	0.3536	0.1768	614		
Measurement Point 4	Right	15	0.3535	0.1768	614	307	
Measurement Point 5	Bottom	15	0.3232	0.1616			
Measurement Point 6	Тор	20	0.3647	0.1824			

Test Mode: iphone 15W+Apple Watch 5W+Airpods 10W for 50% battery								
		Measuring Distance(cm)	H- Field(A/ m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	15	0.0342	0.0171		0.815		
Measurement Point 2	Back	15	0.0347	0.0174				
Measurement Point 3	Left	15	0.0352	0.0176	1.00			
Measurement Point 4	Right	15	0.0362	0.0181	1.63			
Measurement Point 5	Bottom	15	0.0323	0.0162	-			
Measurement Point 6	Тор	20	0.0355	0.0178				

Test Mode: iphone 15W+Apple Watch 5W+Airpods 10W for 50% battery						
	Measuring E- 50% Limit(V/ 50%					50%
		Distance(cm)	Field(V/	E-	m)	Limit(V/m)



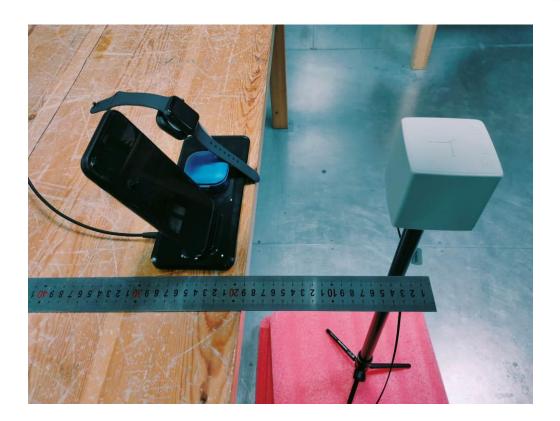
			m)	Field(V/		
				m)		
Measurement Point 1	Front	15	0.3562	0.1781		
Measurement Point 2	Back	15	0.3541	0.1771	614	307
Measurement Point 3	Left	15	0.3436	0.1718		
Measurement Point 4	Right	15	0.3425	0.1713		
Measurement Point 5	Bottom	15	0.3136	0.1568		
Measurement Point 6	Тор	20	0.3574	0.1787		

Test Mode: iphone 15W+Apple Watch 5W+Airpods 5W for 100% battery								
		Measuring Distance(cm)	H- Field(A /m)	50% H- Field(A/ m)	Limit(A /m)	50% Limit(A/m)		
Measurement Point 1	Front	15	0.0341	0.0171		0.815		
Measurement Point 2	Back	15	0.0347	0.0174				
Measurement Point 3	Left	15	0.0342	0.0171	1.00			
Measurement Point 4	Right	15	0.0343	0.0172	1.63			
Measurement Point 5	Bottom	15	0.0323	0.0162				
Measurement Point 6	Тор	20	0.0335	0.0168				

Test Mode: iphone 15W+Apple Watch 5W+Airpods 10W for 100% battery							
		Measuring Distance(cm)	E- Field(V/ m)	50% E- Field(V/ m)	Limit(V/ m)	50% Limit(V/m)	
Measurement Point 1	Front	15	0.3425	0.1713			
Measurement Point 2	Back	15	0.3432	0.1716		207	
Measurement Point 3	Left	15	0.3425	0.1713	614		
Measurement Point 4	Right	15	0.3414	0.1707	014	307	
Measurement Point 5	Bottom	15	0.3203	0.1602			
Measurement Point 6	Тор	20	0.3514	0.1757			

PHOTOGRAPHS OFTEST SETUP





Signature

Sten. He

Alan He Manager Date: 2022-02-21