1. RF Exposure Test Report

1.1 General Information

Client Information

Applicant: mophie LLC

Address of applicant: 6244 Technology Ave. Kalamazoo, MI 49009 U.S.A.

Manufacturer: mophie LLC

Address of manufacturer: 6244 Technology Ave. Kalamazoo, MI 49009 U.S.A.

Description of EUT

Product Name: mophie wireless charging base

Trade Name: mophie

Model No.: WRL-CHGPAD FCC ID: 2ACWB-WRLPAD IC: 10465A-WRLPAD

Rated Voltage: USB Input: DC 5V 1.8A

Frequency Range: 112-205kHz

Modulation Type: ASK

Antenna Type: Coil Antenna

Rated Voltage: DC 5V (Wireless output)
Rated Current: 1A (Wireless output)
Rated Power: 5W (Wireless output)

1.2 Standard Applicable

According to § 1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(A) Limits for C	ccupational/Controlled Exp	osure	
0.3-3.0	614	1.63	*100	6
3.0-30	1842/1	4.89/1	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure	
0.3-1.34	614	1.63	*100	30
1.34-30	824/1	2.19/1	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

1.3 Test Conditions

Test Mode	Description	Remark
TM1	Full Load	With resistor
TM2	Full Charge	With mobile phone
Measurement Distance:	10	cm
Test Standard:	KDB 680106 D01 V02	

1.4 Test Result

The following test data shall to demonstrate RF exposure compliance.

Test Mode: TM1 (with resistor)

	Electric Field Emiss	sions	
Test Position	Measure Value (V/m)	Limit(V/m)	30% Limit (V/m)
Тор	2.69	614	184.2
Bottom	2.15	614	184.2
Side 1	1.65	614	184.2
Side 2	1.64	614	184.2
Side 3	1.87	614	184.2
Side 4	1.98	614	184.2
	Magnetic Field Emis	ssions	
Test Position	Measure Value (A/m)	Limit(A/m)	30% Limit (A/m)
Тор	0.0056	1.63	0.489
Bottom	0.0052	1.63	0.489
Side 1	0.0051	1.63	0.489
Side 2	0.0052	1.63	0.489
Side 3	0.0045	1.63	0.489
Side 4	0.0049	1.63	0.489

Test Mode: TM2 (with mobile phone)

	Electric Field Emiss	sions	
Test Position	Measure Value (V/m)	Limit(V/m)	30% Limit (V/m)
Тор	2.16	614	184.2
Bottom	2.26	614	184.2
Side 1	2.15	614	184.2
Side 2	1.96	614	184.2
Side 3	1.68	614	184.2
Side 4	2.10	614	184.2
	Magnetic Field Emis	ssions	
Test Position	Magnetic Field Emis Measure Value (A/m)	ssions Limit(A/m)	30% Limit (A/m
Test Position Top			30% Limit (A/m 0.489
	Measure Value (A/m)	Limit(A/m)	· ·
Тор	Measure Value (A/m) 0.0052	Limit(A/m) 1.63	0.489
Top Bottom	Measure Value (A/m) 0.0052 0.0066	1.63 1.63	0.489 0.489
Top Bottom Side 1	Measure Value (A/m) 0.0052 0.0066 0.0041	Limit(A/m) 1.63 1.63 1.63	0.489 0.489 0.489

1.5 Test Photos



