FCC 47 CFR MPE REPORT

LIFEWORKS TECHNOLOGY GROUP LLC.

Wireless Party Speaker

Model Number: 2SKSK1852

Additional Model: 2SKSK1852B0L2, 2SKSK1852B0W2, 2SKSK1852N0L2, 2SKSK1852N0W2,2SKSK1852I0L2, 2SKSK1852I0W2

FCC ID: WWE-2SKSK1852

Applicant:	LIFEWORKS TECHNOLOGY GROUP LLC.
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Maximum Permissible Exposure

1. Applicable Standards

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

1.1. Limits for Maximum Permissible Exposure (MPE)

(a) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Times $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-10000			5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Times $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-10000			1.o	30

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

1.2. MPE Calculation Method

E (V/m) = $\frac{\sqrt{30 \times P \times G}}{d}$ Power Density: Pd (W/m^2) = $\frac{E^2}{377}$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

Pd = $\frac{30 \times P \times G}{377 \times d^2}$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

2. Conducted Power Result

Mode	Frequency (MHz)	Peak output power (dBm)	Peak output power (mW)
GFSK	2402	3.13	2.056
	2441	3.04	2.014
	2480	2.66	1.845
π/4-DQPSK	2402	3.07	2.028
	2441	2.98	1.986
	2480	2.55	1.799
8-DPSK	2402	3.50	2.239
	2441	3.40	2.188
	2480	2.92	1.959
BLE 1M	2402	2.84	1.923
	2440	2.64	1.837
	2480	2.21	1.663
BLE 2M	2402	2.78	1.897
	2440	2.71	1.866
	2480	2.28	1.690

3. Calculated Result and Limit

The Worst Mode	Antenna	Peak output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW /cm^2)	Limited of Power Density (S) (mW /cm^2)	Test Result
					(dBi)	(Linear)			
BT	ant 1	3.50	3±1	4	0	1	0.00050	1	Complies
BLE	ant 1	2.84	2±1	3	0	1	0.00040	1	Complies

End of Test Report