



## RF EXPOSURE EVALUATION

Product Name	:	Desire Luxury App Controlled USB Rechargeable Vibrating
Model Name	:	LH-75494
FCC ID	:	2AG2K-LD003
Specification	:	Bluetooth 4.0 BLE
Operation Frequency	:	2402-2480MHz
Number of Channel	:	40
Antenna Type	:	Wire Antenna
Antenna Gain	:	0.0 dBi
Power supply	:	DC 3.7V Battery
Device category	:	Portable (<5mm separation)

### Standard Requirement

According to § 15.247(i) and § 1.1307b(1), 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 levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v05, section 4. 3. 1.

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances  $\leq 50\text{mm}$  are determined by:

$$\left[ \frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g SAR extremity SAR, where}$$

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison.

The test exclusions are applicable only when the minimum test separation distance is  $\leq$

50mm and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is <5mm, a distance of 5mm is applied to determine SAR test exclusion. Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.



One antenna is available for the EUT (BT product). The minimum separation distance is 5mm.

For BLE

Channel Frequency (MHz)	Peak Power Output(dBm)
2402	3.43
2442	4.23
2480	4.60

Channel Frequency (MHz)	Tune up tolerance (dBm)	Max tune up conducted power(dBm)	Output Peak power (mW)	Calculation Result	Limits
2402	4±1	5	3.16	0.979	3
2442	4±1	5	3.16	0.988	3
2480	4±1	5	3.16	0.995	3

Signature

A handwritten signature in black ink, appearing to read 'Chris Du'.

Chris Du

EMC Manager

Date:2019-11-12