FCC RF Exposure

EUT Description:150W Handheld Pocket Light
ModelNo.:C150X
Series Model:C300X,CS200B II,CS100B II,T60X,T120X,CS600,
P1836A,CS200R,CS100R,CS300R,C60X,C20X,C30X,
C40X,C45X,C25X,C50X,C70X,C80X,C200X,C260X,
C600X,A60R,A60B,T30X,C400X,T160X,AT60B,AT60R,
AT120B,AT120R,AT30B,AT30R
FCC ID:2AMTD-C150X

Equipment type: Portable Device

1. Test Procedure
   According to KDB 447498 D01 General RF Exposure Guidance v06

   The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ⩽ 50 mm are determined by:

   [(max. power of channel, including tune-up tolerance, mW)/
   (min. test separation distance, mm)] · [√f(GHz)] ⩽ 3.0 for 1-g SAR and ⩽ 7.5 for 10-g extremity SAR,

   where
   f(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 ⩽ 50 mm and for transmission frequencies between 100 MHz and 6GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2. Test Result of RF Exposure Evaluation

BLE

Mode	Channel Freq. (MHz)	Maximum Conducted Output Power(PK)	Antenna Gain (dBi)	Antenna gain numeric	Max tune-up power (W)
GFSK	2402	3.41	-4.4	0.363	0.0021928
	2440	3.60	-4.4	0.363	0.0022908
	2480	3.36	-4.4	0.363	0.0021677

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)] · [√f(GHz)]=2.2908/5*√2.440=0.71566≤3.0 Threshold at which no SAR required is and ≤ 3.0 for 1-g SAR, Separation distance is 5mm.

Conclusion：No SAR required