

RF Exposure Report FCC ID: 2AKVKDS-809

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Star Wars death star Magnetic levitation			
Model Name	DS-809			
Additional Model	N/A			
Number(s)	IVA			
Model Difference	N/A			
Frequency Range	Bluetooth V3.0: 2402~2480 MHz			
Number of Channel:	79 Channels			
Modulation Type	Bluetooth: GFSK/ π /4-DQPSK/8-DPSK			
RF Output Power	GFSK: 4.040 dBm π /4-DQPSK: 3.900 dBm 8-DPSK: 3.771 dBm			
Antenna Type	PCB Antenna (Gain: 2dBi)			
Power Source	DC Powered by host system or Battery or Adapter .			
Power Rating	DC 5V from USB interference.			
	DC 3.7V from 1000mAh Battery.			
	Adapter:			
	Input: AC 100-240V, 50/60Hz			
	Output: DC 12V, 1.5A			
Remark	More details EUT technical specifications, please refer to the User's Manual.			

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2. RF EXPOSURE INFORMATION

SAR Test Exclusion Calculations

- 2.1 FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.
 - (1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations
 - 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 7.5.0 for 10-g SAR

2.2 Calculation:

Bluetooth Mode							
GFSK(1Mbps)							
Frequency (MHz)	Conducte d Power (dBm)	Turn-up Power Tolerance (dB)	MAX Power of Turn-up Tolerance (dbm)	TX Power (mW)	Calculation Value	Threshold Value	
2402	4.040	4±1	5	3.162	0.980	3.0	
2441	3.958	4±1	5	3.162	0.988	3.0	
2480	3.817	4±1	5	3.162	0.996	3.0	
π /4-DQPSK(2Mbps)							
Frequency (MHz)	Conducte d Power (dBm)	Turn-up Power Tolerance (dB)	MAX Power of Turn-up Tolerance (dbm)	TX Power (mW)	Calculation Value	Threshold Value	
2402	3.475	4±1	5	3.162	0.980	3.0	
2441	3.900	4±1	5	3.162	0.988	3.0	
2480	3.793	4±1	5	3.162	0.996	3.0	
8-DPSK(3Mbps)							
Frequency (MHz)	Conducte d Power (dBm)	Turn-up Power Tolerance (dB)	MAX Power of Turn-up Tolerance (dbm)	TX Power (mW)	Calculation Value	Threshold Value	
2402	3.771	4±1	5	3.162	0.980	3.0	
2441	3.629	4±1	5	3.162	0.988	3.0	
2480	3.548	4±1	5	3.162	0.996	3.0	

So standalone SAR measurements are not required.

*****END OF REPORT*****

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