RF Exposure Evaluation

FCC ID: 2AA5C-FSR001

1. Client Information

Applicant : CviLux Corporation

Address : 9F., No.9, Lane 3, Sec 1, Chung-Cheng East Road, Tamshui, New Taipei City, 25147 Taiwan

Manufacturer : CviLux Corporation

Address : 9F., No.9, Lane 3, Sec 1, Chung-Cheng East Road, Tamshui, New Taipei City, 25147 Taiwan

2. General Description of EUT

EUT Name	:	3in1 Cloud Storage Box	
Models No.	:	FSR001	
Model Difference	:	N/A	
Product Description	:	Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz	
		Number of Channel:	802.11b/g/n(HT20):11 channels 802.11n(HT40):7 channels **see note(3)**
		Max Peak Output Power:	802.11b: 9.59 dBm 802.11g: 9.18 dBm 802.11n(HT20): 9.52 dBm 802.11n(HT40): 9.57 dBm
		Antenna Gain:	0 dBi Chip Antenna
		Modulation Type:	GFSK 1Mbps(1 Mbps) π/4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)
Power Supply	:	DC Voltage supplied from Host System by USB cable DC power by Li-ion Battery	
Power Rating	:	DC 5.0V by USB cable DC 3.7V 3200mAh Li-ion Battery	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

More test information about the EUT please refer the RF Test Report.

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MPE Calculations

1. **FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies V05R01.**
   (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)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 for 10-g SAR

Calculation:
The maximum power is 9.59 dBm(9.099mW) @2.462GHz
Separation Distance: 5mm
For 1-g SAR Result: (9.099mW /5mm) • [$\sqrt{2.462(GHz)}$]= 2.855 <3.0 for 1-g SAR

So standalone SAR measurements are not required.