



Page: 1 of 5

# RF Exposure Evaluation FCC ID: 2ABES-GURUBOOK5

## 1. Client Information

**Applicant**: Pathway Innovations and Technologies, Inc.

Address : 9833 Pacific Heights Blvd., Suite D, San Diego, CA 92121

**Manufacturer**: ShenZhen KerunVisual Technology Co., LTD.

**Address**: 6th Floor Building 2, District 2, South Honghualing Industrial Zone,

No.1213 Liuxian Road, Nanshan Branch, Shenzhen City,

Guangdong, China

## 2. General Description of EUT

EUT Name	:	Gurubook 5/MID					
Models No.	:	Gurubook 5, Gurubook 8, Gurubook 12, Gurubook 13, Gurubook 16					
Model Difference	:	All the other models are identical in the same PCB layout, interior structure and electrical circuits, The only difference is model name for commercial purpose.					
Product Description	Ξ	Operation Frequency: 802.11b/g/n(HT20): 2412N 802.11b/g/n(HT40): 2422N Bluetooth: 2402MHz~2480 Number of Channel:  Max Peak Output Power:	/IHz~2452MHz				
			802.11n (HT20): 9.36 dBm 802.11n (HT40): 9.30 dBm Bluetooth: GFSK: -2.094 dBm 8-DPSK: -2.524 dBm				
		Antenna Gain: 0 dBi FPC Antenna					
		Modulation Type:	802.11b: DSSS (CCK, QPSK, BPSK) 802.11g: OFDM 802.11n: OFDM GFSK 1Mbps(1 Mbps) π/4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)				
Power Supply	:	DC power supplied by AC/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
		DC Voltage supplied from Li-Polymer battery.					
Power Rating	:	AC/DC Adapter: Input: AC 100~240V 50/60Hz 0.35A Output: DC 5V 2A					

TB-RF-074-1. 0

Tel: +86 75526509301 Fax: +86 75526509195



Page: 2 of 5

		DC 3.7V 2800mAh from 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.



Page: 3 of 5

#### **SAR Test Exclusion Calculations**

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

- (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



Page: 4 of 5

#### 2. Calculation:

. Calculation	· <del>-</del>		802.11b Mode									
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value						
2.412	9.75	0	9.441	5	2.932	3.0						
2.437	9.79	0	9.528	5	2.975	3.0						
2.462	9.80	0	9.550	5	2.997	3.0						
802.11g Mode												
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value						
2.412	9.42	0	8.750	5	2.718	3.0						
2.437	9.46	0	8.831	5	2.757	3.0						
2.462	9.38	0	8.670	5	2.721	3.0						
		802	2.11n(HT20) Mod	le								
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value						
2.412	9.36	0	8.630	5	2.681	3.0						
2.437	9.32	0	8.551	5	2.670	3.0						
2.462	9.27	0	8.453	5	2.653	3.0						
		802	2.11n(HT40) Mod	le								
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value						
2.422	8.06	0	6.397	5	1.991	3.0						
2.437	8.17	0	6.561	5	2.049	3.0						
2.452	8.30	0	6.761	5	2.117	3.0						
	Bluetooth Mode (GFSK)											
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value						
2.402	-5.102	0	0.309	5	0.096	3.0						
2.441	-2.094	0	0.617	5	0.193	3.0						
2.480	-3.934	0	0.404	5	0.127	3.0						
	Bluetooth Mode (8-DPSK)											
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value						
2.402	-4.750	0	0.335	5	0.104	3.0						
2.441	-2.524	0	0.559	5	0.175	3.0						
2.480	-3.539	0	0.443	5	0.139	3.0						



Page: 5 of 5

Remark: WiFi and Bluetooth can't transmit at the same time.