

Page: 1 of 4

RF Exposure Evaluation FCC ID: 2ABES-KR7013

1. Client Information

Applicant		Pathway Innovations and Technologies, Inc		
Address	P	9985 Pacific Heights Blvd., Suite 100, San Diego, CA 92121, USA		
Manufacturer	:(ShenZhen Kerun Visual Technology Co., LTD		
Address		AUnit A, F/11, Bldg.1, Senyang Electronic Technology Park, Tianliao Community, Guangming High Tech Zone, Guangming New District, Shenzhen, China		

2. General Description of EUT

Z. Ochleral i	-	scription of Lot		
EUT Name		G-BOOK		
Models No.	:	KR7013, KR0512, G-BOOK, G1300		
Model Difference	8	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance color.		
		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz Bluetooth 4.2(BT): 2402MHz~2480MHz	
NO.		RF Output Power:	802.11b: 9.36dBm	
Product			802.11g: 9.83dBm 802.11n (HT20): 8.83dBm	
Description	6	Die M	GFSK: 0.78dBm	
B WORK	X		π /4-DQPSK: 0.316dBm	
	O		8-DPSK: 0.427dBm BLE:-0.714	
		Antenna Gain:	4.5dBi FPC Antenna	
Power Supply	Š	DC Voltage Supply from USB Port. DC Voltage supplied by Li-ion battery.		
Power Rating		DC 5.0V by USB cable		
Software		DC 3.7V by 7000mAh Li-ion battery		
Version		Q410801620180409		
Hardware Version		V2.0		
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.

TB-RF-074-1. 0



Page: 2 of 4

SAR Test Exclusion Calculations

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≤5 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: 3 of 4

2. Calculation:

			WiFi Mode(802.11b)			
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.87	8±1	9	7.943	2.467	3.0
2.437	8.96	8±1	9	7.943	2.480	3.0
2.462	8.41	8±1	9	7.943	2.493	3.0
A W	U. S.	A COM	WiFi Mode(802.11g)		~ HH	Section 1
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.49	8±1	9	7.943	2.467	3.0
2.437	8.83	8±1	9	7.943	2.480	3.0
2.462	8.29	8±1	9	7.943	2.493	3.0
LIMIT		Wi	Fi Mode(802.11n(HT2	0))	AMA	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.36	8±1	9	7.943	2.467	3.0
2.437	8.83	8±1	9	7.943	2.480	3.0
2.462	8.37	8±1	9	7.943	2.493	3.0



Page: 4 of 4

		В	luetooth Mode (GFSK)		62111-3	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.78	0±1	1	1.259	0.390	3.0
2.441	0.50	0±1	1	1.259	0.393	3.0
2.480	0.37	0±1	1	1.259	0.397	3.0
THE PARTY OF THE P	(1) (1)	Blue	tooth Mode (π/4-DQPS	K)	11:10	- 17
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.316	0±0.5	0.5	1.122	0.348	3.0
2.441	0.143	0±0.5	0.5	1.122	0.351	3.0
2.480	-0.451	0±0.5	0.5	1.122	0.353	3.0
		Blu	uetooth Mode (8-DPSK)			CITI'S
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.427	0±0.5	0.5	1.122	0.348	3.0
2.441	0.327	0±0.5	0.5	1.122	0.351	3.0
2.480	-0.436	0±0.5	0.5	1.122	0.353	3.0
Marie Land		4000	BLE Mode (GFSK)		30	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-0.714	-1±0.5	-0.5	0.891	0.276	3.0
2.442	-1.061	-1±0.5	-0.5	0.891	0.279	3.0
2.480	-1.492	-1±0.5	-0.5	0.891	0.281	3.0

The worst RF Exposure Evaluation					
Worst Cal	culation Value	Total Calculation	Threshold Value		
WiFi Mode	Bluetooth Mode	Value	Tillesiloid Value		
2.493	0.397	2.89	3.0		

Because the WiFi and Bluetooth can be operated simultaneously, So the worst RF Exposure Evaluation is calculated as 2.493+0.397=2.89 / cm2 < limit 3.0, So standalone SAR measurements are not required.

----END OF REPORT----