

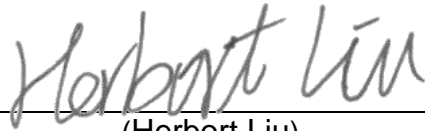
# Maximum Permissible Exposure Report

**FCC ID: WS2-WG7833B0**

**Project No. : 1806T107A**  
**Equipment : Wireless module**  
**Test Model : WG7833-B0**  
**Series Model : N/A**  
**Applicant : Jorjin Technologies INC.**  
**Address : 17F., No 239, Sec. 1, Datong Rd., Xizhi Dist.,  
New Taipei City, 22161, TAIWAN, R.O.C.**

**According: : FCC Guidelines for Human Exposure IEEE  
C95.1**

**Authorized Signatory** :

  
(Herbert Liu)

**B T L I N C .**

No.18, Ln. 171, Sec. 2, Jiuzong Rd.,  
Neihu Dist., Taipei City, Taiwan (R.O.C.)  
TEL:+886-2-2657-3299 FAX: +886-2-2657-3331



Testing Laboratory

0659

## MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model	Type	Connector	Gain (dBi)		
					2.4 GHz	Band 1	Band 4
1	Liteon	Locix	PCB	N/A	3.83	4.10	2.27

# TEST RESULTS

## Bluetooth EDR:

Test Mode :	TX Mode _1Mbps
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Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2402	3.83	2.4155	10.63	11.5611	0.00555841	1	Complies
2441	3.83	2.4155	10.69	11.7220	0.00563573	1	Complies
2480	3.83	2.4155	10.32	10.7647	0.00517548	1	Complies

Test Mode :	TX Mode _3Mbps
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Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2402	3.83	2.4155	5.16	3.2810	0.00157743	1	Complies
2441	3.83	2.4155	5.04	3.1915	0.00153444	1	Complies
2480	3.83	2.4155	4.55	2.8510	0.00137073	1	Complies

## Bluetooth LE:

Test Mode :	CH00, CH19 , CH39
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Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2402	3.83	2.4155	4.94	3.1189	0.00149951	1	Complies
2440	3.83	2.4155	4.67	2.9309	0.00140913	1	Complies
2480	3.83	2.4155	4.99	3.1550	0.00151688	1	Complies

**2.4G:**

Test Mode :	TX B MODE / CH01, CH06, CH11
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Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2412	3.83	2.4155	15.42	34.8337	0.01674751	1	Complies
2437	3.83	2.4155	15.51	35.5631	0.01709820	1	Complies
2462	3.83	2.4155	15.21	33.1894	0.01595697	1	Complies

Test Mode :	TX G MODE / CH01, CH06, CH11
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Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2412	3.83	2.4155	12.02	15.9221	0.00765509	1	Complies
2437	3.83	2.4155	13.22	20.9894	0.01009138	1	Complies
2462	3.83	2.4155	12.51	17.8238	0.00856940	1	Complies

Test Mode :	TX N (HT20) Mode / CH01, CH06, CH11
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Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2412	3.83	2.4155	11.78	15.0661	0.00724353	1	Complies
2437	3.83	2.4155	12.15	16.4059	0.00788770	1	Complies
2462	3.83	2.4155	11.96	15.7036	0.00755006	1	Complies

Test Mode :	TX N (HT40) Mode / CH03, CH06, CH09
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Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2422	3.83	2.4155	10.64	11.5878	0.00557122	1	Complies
2437	3.83	2.4155	11.97	15.7398	0.00756746	1	Complies
2452	3.83	2.4155	10.90	12.3027	0.00591494	1	Complies

**5G:**

Test Mode : UNII-1\_TX A Mode /CH36, CH40, CH48

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5180	4.10	2.5704	15.74	37.4973	0.01918449	1	Complies
5200	4.10	2.5704	16.18	41.4954	0.02123002	1	Complies
5240	4.10	2.5704	15.88	38.7258	0.01981301	1	Complies

Test Mode : UNII-1\_TX N (HT20) Mode /CH36, CH40, CH48

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5180	4.10	2.5704	15.81	38.1066	0.01949622	1	Complies
5200	4.10	2.5704	15.82	38.1944	0.01954116	1	Complies
5240	4.10	2.5704	15.90	38.9045	0.01990446	1	Complies

Test Mode : UNII-1\_TX N (HT40) Mode / CH38, CH46

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5190	4.10	2.5704	13.89	24.4906	0.01252998	1	Complies
5230	4.10	2.5704	13.96	24.8886	0.01273358	1	Complies

Test Mode : UNII-3\_TX A Mode / CH149, CH157, CH161

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5745	2.27	1.6866	11.33	13.5831	0.00455985	1	Complies
5785	2.27	1.6866	14.69	29.4442	0.00988440	1	Complies
5825	2.27	1.6866	14.46	27.9254	0.00937455	1	Complies

Test Mode : UNII-3\_TX N (HT20) Mode / CH149, CH157, CH161

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5745	2.27	1.6866	10.51	11.2460	0.00377529	1	Complies
5785	2.27	1.6866	14.26	26.6686	0.00895262	1	Complies
5825	2.27	1.6866	14.08	25.5859	0.00858915	1	Complies

Test Mode : UNII-3\_TX N (HT40) Mode / CH151, CH159

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5755	2.27	1.6866	11.39	13.7721	0.00462328	1	Complies
5795	2.27	1.6866	12.66	18.4502	0.00619370	1	Complies

Note:

(1) The calculated distance is 20 cm.