

# Maximum Permissible Exposure Report

**FCC ID: 2AMHM-P2-6E-WIFI**

**Report No.** : BTL-FCCP-8-2105T078  
**Equipment** : Communication Module  
**Model Name** : LBEE5HY1MW  
**Brand Name** : BOSCH  
**Applicant** : Robert Bosch Engineering and Business Solutions Private Limited  
**Address** : No.123, Industrial Layout, Hosur Road, Koramangala, Bangalore - 560 095

**FCC Rule Part(s)** : FCC Guidelines for Human Exposure IEEE C95.1


**Date of Receipt** : 2021/5/19  
**Date of Test** : 2021/5/19 ~ 2021/9/24  
**Issued Date** : 2021/10/6

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

**Prepared by**

:   
Jerry Chuang, Supervisor

**Approved by**

:   
Peter Chen, Vice Manager

**BTL Inc.**

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299

Fax: +886-2-2657-3331

Web: www.newbtl.com

**REVISION HISTORY**

Report No.	Version	Description	Issued Date
BTL-FCCP-8-2105T078	R00	Original Report.	2021/10/6

**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:**

Antenna	Manufacture	Model No.	Type	Connector	Gain (dBi)	Note
1	 圣丹纳 SAINTENNA	SAA31139A	Dipole	SMA-J	2.35	

**Output power including tune up tolerance**

Function	Target power (dBm)	Tolerance (dB)
BT	6	±1
BLE	5	±1
WLAN	17	±1

### CALCULATED RESULTS

Mode	Band	Frequency Range (MHz)	Maximum Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm <sup>2</sup> )	Limit of Power Density (mW/cm <sup>2</sup> )	Test Result
BT	-	2402	7	2.35	0.0017	1.0000	Complies

Mode	Band	Frequency Range (MHz)	Maximum Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm <sup>2</sup> )	Limit of Power Density (mW/cm <sup>2</sup> )	Test Result
BLE	-	2402	6	2.35	0.0014	1.0000	Complies

Mode	Band	Frequency Range (MHz)	Maximum Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm <sup>2</sup> )	Limit of Power Density (mW/cm <sup>2</sup> )	Test Result
WLAN	-	2412	18	2.35	0.0216	1.0000	Complies

Note:

1. The calculated distance is 20 cm.

### COLLOCATED POWER DENSITY CALCULATIONS

So for simultaneous transmission (WWAN+WLAN+BT):  $0.1068/1+0.0216/1+0.0017/1=0.1301 < 1$ .

**End of Test Report**