

# 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**

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:   
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**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:

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

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**