# TEST REPORT

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|---|---|---|---|
| **Report No.:** | E201605121202-5 | **Application No.:** | E201605121202 |
| **Applicant:** | BloomSky, Inc | | |
| **Applicant Address:** | 723 N, Shoreline Blvd, Mountain View, CA 94043, United States | | |
| **Sample Description:** | SKY | | |
| **Model:** | SKY2 | | |
| **Adding Model:** | / | | |
| **FCC ID:** | | | |
| **Test Specification:** | FCC Part 1.1310 | | |
| **Test Date:** | 2016-05-12 to 2016-06-14 | | |
| **Issue Date:** | 2016-06-14 | | |
| **Test Result:** | *PASS* | | |

| **Prepared By:** | **Reviewed By:** | **Approved By:** |
|---|---|---|
| Brian Xiao / Test Engineer | Lynn Xiao /Technical Manager | Yong Dai /Technical Manager |
| Date:2016-06-14 | Date:2016-06-14 | Date:2016-06-14 |

**Other Aspects:**

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**Abbreviations:** *ok / P = passed; fail / F = failed; n.a. / N = not applicable*

**The test result in this test report refers exclusively to the presented test sample. This report shall not be reproduced except in full, without the written approval of GRGT.**

# RF Exposure Compliance Requirement

## 1. LIMITS

The EUT has two modular(BT modular and WIFI modular). Frequency range is 2400~2483.5MHz,

**The limit for general population/uncontrolled exposures**

| Frequency Range(MHz) | Electric Field Stength(V/m) | Magnetic Field Stength(A/m) | Power Density (mW/cm²) | Averaging Time (minute) |
|---|---|---|---|---|
| Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f²) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | f/1500 | 30 |
| 1500-100,000 | / | / | 1.0 | 30 |

f=frequency in MHz

*=Plane-wave equivalent power density

2. Prediction of MPE limit at given distance, equations from OET Bulletin 65, Edition 14‐01:

$S = (1.64 * P * G) / (4 * \pi * R^2)$ (where PG = ERP)

$S = (P * G) / (4 * \pi * R^2)$ (where PG=EIRP) Where:

S = power density

P= power input to antenna

G= numeric gain of the antenna

R= distance to the center of radiation of the antenna

The WIFI modular and BT modular can not work together.

### 1. 802.11 B mode

Prediction frequency (MHz):           2462

Maximum RF output power (EIRP, dBm):           21.72

Maximum RF output power (EIRP, mW):           148.59

MPE limit for uncontrolled exposure at predication frequency (mW/ cm²):     1

Prediction distance (cm) R= $\sqrt{\dfrac{P * G}{S * 4 * 3.14}}$ :   3.44cm

So the distance between the transmitter's radiating structure(s) and the body of the user or nearby persons is cannot less than 0.0344m.