RF EXPOSURE REPORT



Report No.: 17070203-FCC-H2 Supersede Report No.: N/A

| Applicant | BLU Products, Inc. | | | |
|------------------------|---|---------------|-----------------|--|
| Product Name | Mobile Pho | Mobile Phone | | |
| Model No. | STUDIO ME | EGA | | |
| Serial No. | N/A | | | |
| Test Standard | FCC 2.1093 | 3:2016 | | |
| Test Date | March 30 to | April 18, 201 | 7 | |
| Issue Date | April 19, 20 | 17 | | |
| Test Result | Pass | Fail | | |
| Equipment compli | Equipment complied with the specification | | | |
| Equipment did no | t comply with | the specifica | tion 🗆 | |
| Loven | Luo | David | Huang | |
| Loren Lo Test Engir | | | Huang ked By | |

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

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In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

| Country/Region | Scope |
|----------------|------------------------------------|
| USA | EMC, RF/Wireless, SAR, Telecom |
| Canada | EMC, RF/Wireless, SAR, Telecom |
| Taiwan | EMC, RF, Telecom, SAR, Safety |
| Hong Kong | RF/Wireless, SAR, Telecom |
| Australia | EMC, RF, Telecom, SAR, Safety |
| Korea | EMI, EMS, RF, SAR, Telecom, Safety |
| Japan | EMI, RF/Wireless, SAR, Telecom |
| Singapore | EMC, RF, SAR, Telecom |
| Europe | EMC, RF, SAR, Telecom, Safety |



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1. Report Revision History

| Report No. | Report Version | Description | Issue Date |
|-----------------|----------------|-------------|----------------|
| 17070203-FCC-H2 | NONE | Original | April 19, 2017 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| Applicant Name | BLU Products, Inc. |
|------------------|--|
| Applicant Add | 10814 NW 33rd St # 100 Doral, FL 33172 |
| Manufacturer | BLU Products, Inc. |
| Manufacturer Add | 10814 NW 33rd St # 100 Doral, FL 33172 |

3. Test site information

| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES |
|----------------------|---|
| | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park |
| Lab Address | South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China |
| | 518108 |
| FCC Test Site No. | 718246 |
| IC Test Site No. | 4842E-1 |
| Test Software of | Dedicted Fusicaion Duaguaga Ta Changhan v.2.0 |
| Radiated Emission | Radiated Emission Program-To Shenzhen v2.0 |
| Test Software of | E7 FMC(ver len 0244) |
| Conducted Emission | EZ-EMC(ver.lcp-03A1) |



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4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: STUDIO MEGA

Serial Model: N/A

Date EUT received: March 29,2017

Test Date(s): March 30 to April 18, 2017

GSM850: -0.57dBi PCS1900: -0.96dBi

UMTS-FDD Band V: -0.6dBi
UMTS-FDD Band IV: -1.71dBi

Antenna Gain:

UMTS-FDD Band II: -1dBi

WIFI: -1.52dBi

Bluetooth/BLE:-1.42dBi

GPS: -0.96dBi

Antenna Type: PIFA antenna

GSM / GPRS: GMSK EGPRS: GMSK,8PSK

UMTS-FDD: QPSK

Type of Modulation: 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK



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GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz

PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz

UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

UMTS-FDD Band IV TX:1712.4 ~ 1752.6 MHz;

RX: 2112.4 ~ 2152.6 MHz

RF Operating Frequency (ies): UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

WIFI: 802.11b/g/n(20M): 2412-2462 MHz WIFI: 802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz

GPS: 1575.42 MHz

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH UMTS-FDD Band IV: 202CH UMTS-FDD Band II: 277CH

Number of Channels:

WIFI:802.11b/g/n(20M): 11CH

WIFI:802.11n(40M):7CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: USB Port, Earphone Port

Adapter:

Model:TPA-46B050100UU

Input: AC100-240V~50/60Hz,0.2A

Input Power: Output: DC 5.0V,1.0A

Battery:

Model:C986241250L

Spec:3.8V,9.5Wh,2500mAh

Trade Name: BLU

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: YHLBLUSTUDIOMEG



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5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

5.1 RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, ¹⁶ where

- f_(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is ≤ 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

result = $P\sqrt{F}/D$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm



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5.2 Test Result

Bluetooth Mode:

| Modulation | СН | Freque | Conducted Power | Tune Up Power | Max Tune Up Power | Max Tune Up Power | Result | Limit |
|------------|------|--------|-----------------|---------------|-------------------|-------------------|--------|-------|
| | | (MHz) | (dBm) | (dBm) | (dBm) | (mW) | | |
| GFSK | Low | 2402 | 4.512 | 4±1 | 5 | 3.162 | 0.98 | 3 |
| | Mid | 2441 | 4.447 | 4±1 | 5 | 3.162 | 0.99 | 3 |
| | High | 2480 | 3.826 | 4±1 | 5 | 3.162 | 1.00 | 3 |
| π /4 DQPSK | Low | 2402 | 4.379 | 4±1 | 5 | 3.162 | 0.98 | 3 |
| | Mid | 2441 | 4.319 | 4±1 | 5 | 3.162 | 0.99 | 3 |
| | High | 2480 | 3.665 | 4±1 | 5 | 3.162 | 1.00 | 3 |
| 8-DPSK | Low | 2402 | 4.425 | 4±1 | 5 | 3.162 | 0.98 | 3 |
| | Mid | 2441 | 4.367 | 4±1 | 5 | 3.162 | 0.99 | 3 |
| | High | 2480 | 3.812 | 4±1 | 5 | 3.162 | 1.00 | 3 |

BLE Mode:

| Modulation | СН | Freq (MHz) | Conducted Power (dBm) | Tune Up Power (dBm) | Max Tune Up Power (dBm) | Max Tune Up Power (mW) | Result | Limit |
|------------|------|---------------|-----------------------|---------------------------|-------------------------|------------------------|--------|-------|
| GFSK | Low | 2402 | -3.547 | -4±1 | -3 | 0.501 | 0.16 | 3 |
| | Mid | 2440 | -3.480 | -4±1 | -3 | 0.501 | 0.16 | 3 |
| | High | 2480 | -4.122 | -4±1 | -3 | 0.501 | 0.16 | 3 |

Result: Compliance

No SAR measurement is required.