

RF Exposure Report

Report No.: SA160428C20

FCC ID: 2AHCN-BT11

Test Model: BT11

Received Date: Apr. 28, 2016

Test Date: Apr. 29 ~ May 14, 2016

Issued Date: May 16, 2016

Applicant: Mist Systems, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Release Control Record

Issue No.	Description	Date Issued
SA160428C20	Original release	May 16, 2016

1 Certificate of Conformity

Product: BLE Array AP - Internal Antenna

Brand: Mist

Test Model: BT11

Sample Status: Engineering sample

Applicant: Mist Systems, Inc.

Test Date: Apr. 29 ~ May 14, 2016

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 (October 23, 2015)

IEEE C95.1

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Celine Chou, **Date:** May 16, 2016

Celine Chou / Specialist

Approved by : Ken Liu, **Date:** May 16, 2016

Ken Liu / Senior Manager

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

3 Calculation Result of Maximum Conducted Power

Mode	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
BT EDR	10.07	12.48	20	0.036	1
BT LE	7.29	12.48	20	0.019	1

Note: Directional gain = 6.46dBi + 10log(4) = 12.48dBi

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