RF Exposure Report

Report No.:	MCAAGC-WTW-P23110065
IC:	28904-NOTE32WL
Test Model:	NOTE-LWUS
Received Date:	Nov. 02, 2023
Test Date:	Dec. 01 ~ Dec. 20, 2023
Issued Date:	Oct. 29, 2024
Applicant:	Blues Inc.
Address:	50 Harbor St Manchester, MA, 01944-1425 United States.
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location :	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN
ISED# / CAB Identifier:	7450F / TW2021

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Release Control Record

Issue No.	Description	Date Issued
MCAAGC-WTW-P23110065	Original release	Oct. 29, 2024

1 Certificate of Conformity

Product:	Notecard
Brand:	Blues Inc.
Test Model:	NOTE-LWUS
Sample Status:	Engineering sample
Applicant:	Blues Inc.
Test Date:	Dec. 01 ~ Dec. 20, 2023
Standards:	RSS-102 Issue 5 (March 19, 2015), Amendment 1 (February 2, 2021)

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 RF characteristics under the conditions specified in this report.

Prepared by : _____ , **Date:** Oct. 29, 2024

Polly Chien / Specialist

Approved by : _____ , **Date:** Oct. 29, 2024

Jeremy Lin / Project Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Per RSS-102 issue 5, section 2.5.2 as reproduced below:

2.5.2 Exemption from Routine Evaluation Limits – RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $22.48/f^{0.5}$W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2}\ f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

Frequency Range (MHz)	Electric Field Strength (V/m rms)	Magnetic Field Strength (A/m rms)	Power Density (W/m^2)	Reference Period (minutes)
Limits For General Population / Uncontrolled Exposure				
0.003-10^{21}	83	90	-	Instantaneous*
0.1-10	-	$0.73/f$	-	6**
1.1-10	$87/f^{0.5}$	-	-	6**
10-20	27.46	0.0728	2	6
20-48	$58.07/f^{0.25}$	$0.1540/f^{0.25}$	$8.944/f^{0.5}$	6
48-300	22.06	0.05852	1.291	6
300-6000	$3.142\ f^{0.3417}$	$0.008335\ f^{0.3417}$	$0.02619f^{0.6834}$	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	$616000/f^{1.2}$
150000-300000	$0.158\ f^{0.5}$	$4.21 \times 10^{-4}\ f^{0.5}$	$6.67 \times 10^{-5}\ f$	$616000/f^{1.2}$

Note: f is frequency in MHz.
*Based on nerve stimulation (NS).
** Based on specific absorption rate (SAR).

2.2 MPE Calculation Formula

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

where

Pd = power density in W/m^2

Pout = output power to antenna in W

G = gain of antenna in linear scale

pi = 3.1416

r = distance between observation point and center of the radiator in m

2.3 Classification

The antenna of this product, under normal use condition, is greater than 0.20m away from the body of the user. So, this device is classified as Mobile Device.

2.4 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Radiated Electric field (dBuV/m) @3m	Radiated Electric field (dBuV/m) @0.2m	EIRP Power (dBm)	Power Density (W/m^2)	Limit (W/m^2)
902.3~914.9	93.8	117.32	-1.43	0.0014	2.754

Note:

1. 93.8 + 20log(3/0.2) = 117.32dBuV/m.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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