RF Exposure Report

Report No.:	SA160725C16
FCC ID:	XIA-NRB51B
Test Model:	NRB-51
Received Date:	Feb. 18, 2016
Test Date:	Aug. 02 ~ Aug. 09, 2016
Issued Date:	Aug. 11, 2016
Applicant:	NetComm Wireless Limited
Address:	Level 2, 18-20 Orion Road, Lane Cove, NSW 2066, Sydney Australia
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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 (R.O.C.)

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Release Control Record

Issue No.	Description	Date Issued
SA160725C16	Original release	Aug. 11, 2016

1 Certificate of Conformity

Product:	Outdoor LTE Router
Brand:	Netcomm
Test Model:	NRB-51
Sample Status:	Engineering sample
Applicant:	NetComm Wireless Limited
Test Date:	Aug. 02 ~ Aug. 09, 2016
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06, section 7 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 : _____ , **Date:** Aug. 11, 2016

Pettie Chen / Senior Specialist

Approved by : _____ , **Date:** Aug. 11, 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/cm^2

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

FREQUENCY BAND (MHz)	EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
LTE Band 2 (Channel Bandwidth 1.4MHz)	31.4	20	0.275	1
LTE Band 2 (Channel Bandwidth 3MHz)	31.4	20	0.275	1
LTE Band 2 (Channel Bandwidth 5MHz)	31.4	20	0.275	1
LTE Band 2 (Channel Bandwidth 10MHz)	31.7	20	0.294	1
LTE Band 2 (Channel Bandwidth 15MHz)	31.8	20	0.301	1
LTE Band 2 (Channel Bandwidth 20MHz)	32.0	20	0.315	1
LTE Band 30 (Channel Bandwidth 5MHz)	28.3	20	0.135	1
LTE Band 30 (Channel Bandwidth 10MHz)	28.5	20	0.141	1

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