



BUREAU
VERITAS

Test Report No.: FS160323N065

RF EXPOSURE REPORT

Applicant	BLACK BOX Corporation
Address	1000 Park Drive Lawrence, Pennsylvania 15055-1018

Manufacturer or Supplier	BLACK BOX Corporation
Address	1000 Park Drive Lawrence, Pennsylvania 15055-1018
Product	AC750 Wireless Dual Band Gigabit Router
Brand Name	BLACK BOX
Model	WRT750A
Additional Model & Model Difference	N/A
Date of tests	Mar. 23, 2016 ~ Apr. 29, 2016

FCC Part 2 (Section 2.1091)

KDB 447498 D01

IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Harry Li Project Engineer/ EMC Department	Approved by Chris Chen Manager / EMC Department

Date: Apr. 29, 2016

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification



BUREAU
VERITAS

Test Report No.: FS160323N065

Table of Contents

RELEASE CONTROL RECORD	3
1. CERTIFICATION.....	4
2. RF EXPOSURE LIMIT	5
3. MPE CALCULATION FORMULA.....	5
4. CLASSIFICATION	5
5. ANTENNA GAIN	6
6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER.....	6



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS160323N065	Original release	Apr. 29, 2016



BUREAU
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1. CERTIFICATION

PRODUCT: AC750 Wireless Dual Band Gigabit Router

BRAND NAME: BLACK BOX

MODEL NO.: WRT750A

ADDITIONAL MODEL: N/A

FCC ID: EHX-WRT750A

TEST SAMPLE: ENGINEERING SAMPLE

APPLICANT: BLACK BOX Corporation

TESTED DATE: Apr. 29, 2016

STANDARDS: FCC Part 2 (Section 2.1091)

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2. RF EXPOSURE LIMIT

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

3. 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

π = 3.1416

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

4. 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**.



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5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	ANT Number	Total Gain (dBi)	Antenna Type
2.4G	2.7	2	5.71	Dipole Antenna
5G	2.5	1	2.5	Dipole Antenna

Note: For 2.4GHz, Total Gain=2.7+10log(N=2)=1.5+(3.01)=5.71dB

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
WLAN 2.4GHz	181.633	5.71	20	0.1345	1.0
WLAN 5G Band 1	65.013	2.5	20	0.0230	1.0
WLAN 5G Band 4	63.387	2.5	20	0.0224	1.0

2.4GHz and 5GHz transmit simultaneously: 0.1345+0.0230=0.1575<1, which is less than the "1" limit.

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