

RF EXPOSURE REPORT

Applicant	ATEN Technology, Inc., dba IOGEAR
Address	15365 Barranca Pkwy Irvine, CA 92618, USA



Manufacturer or Supplier	ATEN Technology, Inc., dba IOGEAR
Address	15365 Barranca Pkwy Irvine, CA 92618, USA
Product	WIFI Module
Brand Name	N/A
Model	G8811A
Additional Model & Model Difference	N/A
Date of tests	May 07, 2018 ~ Mar. 25, 2019

☒ **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 Andy Zhu Project Engineer / EMC Department	Approved by Glyn He Supervisor / EMC Department
	 Date: Jun. 13, 2019

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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



Test Report No.: FM180507N048

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM180507N048	Original release	Jun. 13, 2019

1. CERTIFICATION

FCC ID:	QLEG8811A
PRODUCT:	WIFI Module
BRAND NAME:	N/A
MODEL NO.:	G8811A
ADDITIONAL NO.:	N/A
TEST SAMPLE:	Engineering Sample
APPLICANT:	15365 Barranca Pkwy Irvine, CA 92618, USA
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

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

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = 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**.

5. ANTENNA GAIN

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

Frequency Band	Peak Gain (dBi)	Antenna Type
Wi-Fi 5GHz (5150-5250MHz)	5	Dipole antenna
Wi-Fi 5GHz (5250-5350MHz)	5	Dipole antenna
Wi-Fi 5GHz (5500-5725MHz)	5	Dipole antenna
Wi-Fi 5GHz (5725-5850MHz)	5	Dipole antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
Wi-Fi 5GHz(Band1)	5150-5250MHz	14	+-2	12	16
Wi-Fi 5GHz(Band2)	5250-5350MHz	14	+-3	11	17
Wi-Fi 5GHz(Band3)	5500-5725MHz	12	+-6	6	18
Wi-Fi 5GHz(Band4)	5725-5850MHz	14	+-4	10	18

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
Wi-Fi 5GHz(Band1)	5240	15.61
Wi-Fi 5GHz(Band2)	5320	16.05
Wi-Fi 5GHz(Band3)	5670	17.12
Wi-Fi 5GHz(Band4)	5825	17.41



Test Report No.: FM180507N048

MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
18	5	20	0.0397	1.0

--- END ---