

RF Exposure Evaluation Report

Product Name : Intel® Wireless-AC 9560

Model No. : 9560D2W

FCC ID : PD99560D2

Applicant : Intel Mobile Communications

Address : 100 Center Point Circle, Suite 200 Columbia, South Carolina 29210 USA

Date of Receipt : Feb. 22, 2018

Date of Declaration : Mar. 31, 2018

Report No. : 1820198R-RFUSP02V00

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Issued Date: Mar. 31, 2018
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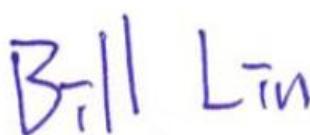
| | |
|---------------------|---|
| Product Name | Intel® Wireless-AC 9560 |
| Applicant | Intel Mobile Communications |
| Address | 100 Center Point Circle, Suite 200 Columbia, South Carolina 29210 USA |
| Manufacturer | Intel Mobile Communications |
| Model No. | 9560D2W |
| FCC ID. | PD99560D2 |
| EUT Rated Voltage | DC 3.3V |
| EUT Test Voltage | AC 120V/60Hz |
| Trade Name | Intel |
| Applicable Standard | FCC 47 CFR 1.1310 |
| Test Result | Complied |

Documented By :



(Senior Adm. Specialist / Joanne Lin)

Tested By :



(Engineer / Bill Lin)

Approved By :



(Director / Vincent Lin)

1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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) |
|---|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| (A) Limits for Occupational/ Control Exposures | | | | |
| 300-1500 | -- | -- | F/300 | 6 |
| 1500-100,000 | -- | -- | 5 | 6 |
| (B) Limits for General Population/ Uncontrolled Exposures | | | | |
| 300-1500 | -- | -- | F/1500 | 6 |
| 1500-100,000 | -- | -- | 1 | 30 |

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm^2

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

P_d is the limit of MPE, 1 mW/cm^2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

Product : Intel® Wireless-AC 9560
 Test Item : RF Exposure Evaluation
 Test Site : No.3 OATS

For 2.4G

| | |
|--------------------------------|---|
| Operation Frequency | BT : 2402-2480MHz WIFI : 2412-2472 MHz , 2442-2462 MHz |
| Maximum Conducted output power | 20.96dBm |
| Antenna gain | 2.89dBi |

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Output Power to Antenna (mW) | Power Density at R = 20 cm (mW/cm2) |
|------------------------------|-------------------------------------|
| 124.7383514 | 0.0493 |

Power density is lower than the limit (1 mW/cm2).

For 5G

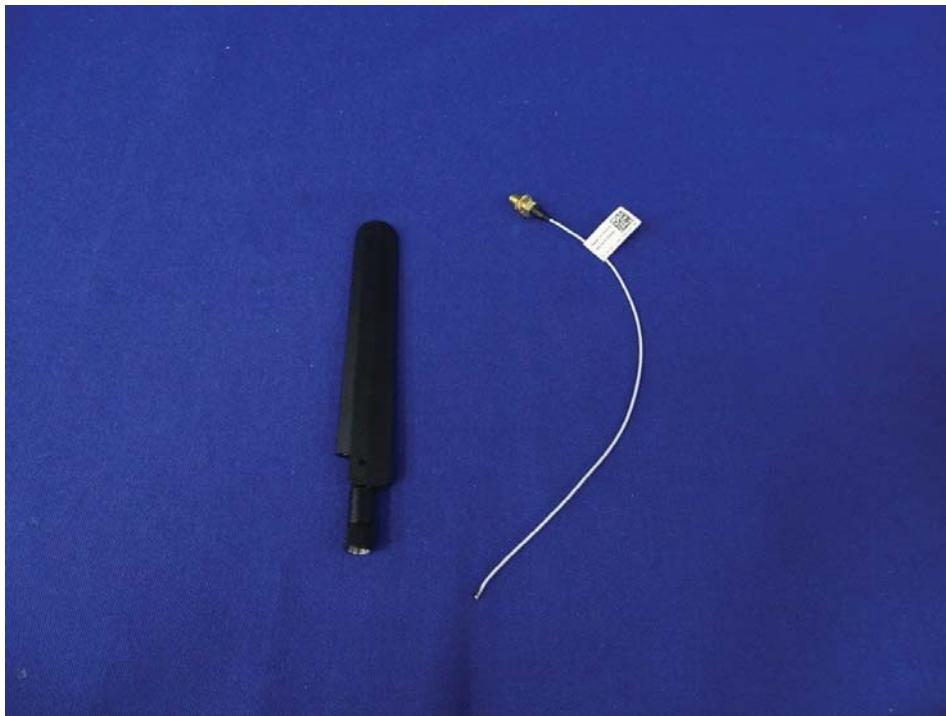
| | |
|--------------------------------|---|
| Operation Frequency | 5180-5320MHz, 5500-5700MHz, 5745-5825MHz 5190-5310MHz, 5510-5670MHz, 5755-5795MHz 5720MHz, 5710MHz, 5210-5290MHz, 5530-5690MHz 5775MHz, 5250MHz, 5570MHz |
| Maximum Conducted output power | 23.63dBm |
| Antenna gain | 4.22dBi |

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Output Power to Antenna (mW) | Power Density at R = 20 cm (mW/cm2) |
|------------------------------|-------------------------------------|
| 230.6747189 | 0.1213 |

Power density is lower than the limit (1 mW/cm2).

(7) EUT Photo



(8) EUT Photo



(9) EUT Photo

