▷ DEKRA

RF Exposure Evaluation Report

Product Name : Intel® Wireless-AC 9260

Model No.　　: 9260NGW

FCC ID　　　 : PD99260NG

Applicant : Intel Mobile Communications

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

Date of Receipt　　 : Sep. 15, 2017

Date of Declaration : Nov. 06, 2017

Report No.　　　　 : 1790206R-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.

Product Name	Intel® Wireless-AC 9260
Applicant	Intel Mobile Communications
Address	100 Center Point Circle, Suite 200 Columbia, South Carolina 29210 USA
Manufacturer	Intel Mobile Communications
Model No.	9260NGW
FCC ID.	PD99260NG
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 / Genie Chang)

Tested By   :
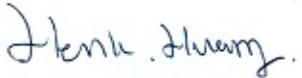
(Vice Supervisor / Henk Huang)

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

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

Pd id 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℃ and 78％ RH.

1.3. Test Result of RF Exposure Evaluation

Product : Intel® Wireless-AC 9260
Test Item : RF Exposure Evaluation
Test Site : No.3 OATS

For 2.4GHz:

Operation Frequency	2412-2472MHz, 2422-2462MHz
aximum Conducted output power	24.88dBm
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)
307.6096815	0.1191

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

Operation Frequency	5180-5240MHz, 5260-5320MHz
	5500-5700MHz, 5745-5825MHz
	5190-5230MHz, 5270-5310MHz
	5510-5670MHz, 5755-5795MHz
	5210MHz, 5290MHz
	5530-5690MHz, 5775MHz
	5250MHz, 5570MHz
Maximum Conducted output power	24.93dBm
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)
311.1716337	0.1636

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