

RF EXPOSURE REPORT

REPORT NO.: SA991207D25B

MODEL NO.: PCG-41215L, PCG-41216L

FCC ID: AK8PCG41215L

ACCORDING: FCC Guidelines for Human Exposure

IEEE C95.1

APPLICANT: SONY Corporation

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ISSUED BY: Bureau Veritas Consumer Products Services

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1

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Report No.: SA991207D25B Reference No.: 991210D01



1. 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/cm²)	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. MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

where

Pd = power density in mW/cm2

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

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**.

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4. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FOR WLAN:

FREQUENCY BAND (MHz)	MAX POWER (dBm)	MAXIMUM ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2412-2462	21.2	1.74	20	0.0391	1.00

FOR BLUETOOTH:

FREQUENCY BAND (MHz)	MAX POWER (dBm)	MAXIMUM ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2402-2480	2.9	2.90	20	0.0008	1.00

CONCULSION:

Both of the modules can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WLAN + BLUETOOTH = 0.0391/1 + 0.0008/1 = 0.0399

Therefore, the maximum calculation of this situation is 0.0399 which is less than the "1" limit.

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