



Report No.: FCS202403015

FCC RF Exposure

EUT Description:Camera

ModelNo.:SK053

Series Model: SK053,GN/GNC/MI/MIC-CW092/CW279-199/101/199W/101W,

 ${\sf GN/GNC/MI/MIC-CW079/CW279-199/101/199W/101W},$

GN/GNC/MI/MIC-CW088/CW288-199/101/199W/101W,

SK085, SK086, SK087, SK088, SK080, SK090, SK091, SK092

SK093, SK095, SK096, SK097, SK098, SK099, SK100, SK101,

SK102, SK103, SK105, SK106, SK107, SK108

FCC ID: 2BE8B-SK053

Equipment type: Mobile Device equipment

Test procedures according to the technical standards: KDB 447498 D01 V06 and FCC 2.1091.

1. Limits

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)	Averaging time (minutes)
	(A) Limit	ts for Occupational/Controlled E	xposures	1
0.3-3.0	614	614 1.63 *(6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500-100,000			5	6
	(B) Limits fo	r General Population/Uncontroll	ed Exposure	1
0.3-1.34	614		*(100)	30
1.34–30	824/f	2.19/f	2.19/f *(180/f²)	
30–300	27.5	0.073 0.2		30
300-1500			f/1500	30
1500-100,000			1.0	30

F = frequency in MHz

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,

 $\pi = 3.14$;



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

Pd id the limit of MPE, 1 mW/cm2. 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.

Report No.: FCS202403015

2. Test Procedure

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

3. Test Result of RF Exposure Evaluation

Modulation	Channel Freq. (MHz)	Conduct ed power (dBm)	Max tune-up power (mW)	Antenna Gain (dBi)	Antenna gain numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
802.11b	2412	12.80	19.05	-0.58	0.87	0.003298865	1
	2437 2462	11.35 13.09	13.65 20.37	-0.58 -0.58	0.87 0.87	0.002363754	1 1
802.11g	2412	10.95	12.45	-0.58	0.87	0.002155951	<u>·</u> 1
	2437	9.50	8.91	-0.58	0.87	0.001542934	1
	2462	11.30	13.49	-0.58	0.87	0.002336047	1
802.11n	2412	11.24	13.30	-0.58	0.87	0.002303145	1
	2437	10.08	10.19	-0.58	0.87	0.00176459	1
	2462	11.68	14.73	-0.58	0.87	0.002550776	1

Wifi: Conclusion: the max result : 0.003527448≤ 1.0 compliance with FCC's RF Exposure.

Conclusion: No SAR is required