

FCC RF Exposure Report

FCC ID: P27SZSMK02

Project No. : 1701011
Equipment : ZigBee Smoke Alarm
Test Model : SZ-SMK02
Series Model : SZ-SMK02xxxxxxxx (the 1st x should be “blank” or “-” ; the rest x could be 0 to 9, A to Z, “blank” or “-” ; for marking purpose)
Applicant : Sercomm Corporation
Address : 8F, No. 3-1, YuanQu St., NanKang, Taipei, Taiwan 115

According: : FCC Guidelines for Human Exposure IEEE C95.1

Technical Manager

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Sercomm	SZ-SMK02	Printed	N/A	2.71

CACULATION:

Test Mode :	TX Mode
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Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2405	2.71	1.8664	8.12	6.4863	0.00240963	1	Complies
2425	2.71	1.8664	8.18	6.5766	0.00244315	1	Complies
2440	2.71	1.8664	8.20	6.6069	0.00245443	1	Complies
2445	2.71	1.8664	8.22	6.6374	0.00246576	1	Complies
2450	2.71	1.8664	8.21	6.6222	0.00246009	1	Complies
2475	2.71	1.8664	8.17	6.5615	0.00243753	1	Complies
2480	2.71	1.8664	-1.23	0.7534	0.00027987	1	Complies

Note: the calculated distance is 20 cm.