

FCC RF Exposure Report

FCC ID: P27SZWTD03N

Project No. : 1702040A
Equipment : Water Detector
Model : SZ-WTD03, SZ-WTD03Nxxxxxxxx (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-WTD03	Printed	N/A	0.63

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	0.63	1.1561	9.32	8.5507	0.00196766	1	Complies
2425	0.63	1.1561	9.29	8.4918	0.00195412	1	Complies
2440	0.63	1.1561	9.24	8.3946	0.00193175	1	Complies
2445	0.63	1.1561	9.21	8.3368	0.00191845	1	Complies
2450	0.63	1.1561	9.19	8.2985	0.00190964	1	Complies
2475	0.63	1.1561	8.83	7.6384	0.00175772	1	Complies
2480	0.63	1.1561	8.22	6.6374	0.00152739	1	Complies

Note: the calculated distance is 20 cm.