



RF EXPOSURE REPORT

For

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FCC ID: 2AG6N-SNM927WF4MG

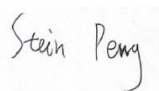
Report Type: Original Report	Product Name: Smart Module
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2407W89602E-RF-04	R1V1	2024-09-19	Initial Release

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to FCC §1.1307(b)(1) & §2.1091, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;
According to §1.1307(b)(1) & §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

EUT Information

Operation Modes	Operation Frequency (MHz)	Max Conducted output power including Tune-up Tolerance (dBm)	Maximum Antenna Gain (dBi)
2.4G WLAN	2412-2462	20.5	0.84
BLE	2402-2480	3.0	0.84
BT	2402-2480	14.0	0.84
5.2G Wi-Fi	5180-5240	16.0	0.69
5.3G Wi-Fi	5260-5320	16.0	0.74
5.5G Wi-Fi	5500-5720	17.0	0.95
5.8G Wi-Fi	5745-5825	18.0	0.95

Note:
The above parameters were provided by the manufacturer.
Please refer to the FCC ID: 2APJ4-SNM927 for power about the certified WLAN & Bluetooth module.

Calculated Data:

Mode	Frequency (MHz)	Antenna Gain		Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G Wi-Fi	2412-2462	0.84	1.21	20.5	112.20	20	0.0270	1
BLE	2402-2480	0.84	1.21	3	2.00	20	0.0005	1
BT	2402-2480	0.84	1.21	14	25.12	20	0.0060	1
5.2G Wi-Fi	5180-5240	0.69	1.17	16	39.81	20	0.0093	1
5.3G Wi-Fi	5260-5320	0.74	1.19	16	39.81	20	0.0094	1
5.5G Wi-Fi	5500-5720	0.95	1.24	17	50.12	20	0.0124	1
5.8G Wi-Fi	5745-5825	0.95	1.24	18	63.10	20	0.0156	1

Note: 1. The Tune-up output power was declared by the Manufacturer.

2. BT and Wi-Fi use the same antenna and cannot transmit simultaneously.

Result: The device meets MPE at distance 20cm.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.
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