FCC ID: 2AX5VMCAMP2

RF EXPOSURE EVALUATION

According to FCC 1.1310: 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) Limits for Occupational/Controlled Exposure									
0.3-3.0	614	1.63	*100	6					
3.0-30	1842/1	4.89/1	*900/f ²	6					
30-300	61.4	0.163	1.0	6					
300-1,500			f/300	6					
1,500-100,000			5	6					
	(B) Limits for Gener	ral Population/Uncontrolled	Exposure						
0.3-1.34	614	1.63	*100	30					
1.34-30	824/1	2.19/1	*180/f ²	30					
30-300	27.5	0.073	0.2	30					
300-1,500			f/1500	30					
1,500-100,000			1.0	30					

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

$$E (V/m) = \frac{\sqrt{30 * P * G}}{d}$$
 Power Density: $Pd (W/m^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Average RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 * P * G}{377 * D^2}$$

From the EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

Measurement Result

Operation Frequency: GFSK: 905 MHz~926.5MHz

Antenna Type: Planar Inverted-F antenna

Antenna gain: Antenna: -5 dBi

R=20cm

OCW=120KHz-jeweller

Channel Freq. (MHz)	modulation	conducted power	Tune-up	Max		Antenna		Evaluation result	Power density Limits
		(dBm)	power (dBm)	tune-up power		Gain		(mW/cm2)	(mW/cm2)
				(dBm)	(mW)	(dBi)	Numeric	(IIIVV/CIIIZ)	(IIIVV/GIIIZ)
905.00	GFSK	13.061	13±1	14	25.119	-5.00	0.32	0.0016	0.60
915.85	GFSK	13.1	13±1	14	25.119	-5.00	0.32	0.0016	0.61
926.5	GFSK	13.298	13±1	14	25.119	-5.00	0.32	0.0016	0.62

OCW=140KHz-wings

Channel Freq. (MHz)	modulation	conducted power	Tune-up	Max		Antenna		Evaluation result	Power density Limits
		(dBm)	power (dBm)	tune-up power		Gain		(mW/cm2)	(mW/cm2)
				(dBm)	(mW)	(dBi)	Numeric	(IIIVV/CIIIZ)	(IIIVV/CIIIZ)
905.00	GFSK	12.766	13±1	14	25.119	-5.00	0.32	0.0016	0.60
915.85	GFSK	12.93	13±1	14	25.119	-5.00	0.32	0.0016	0.61
926.5	GFSK	12.943	13±1	14	25.119	-5.00	0.32	0.0016	0.62

Conclusion:

For the max result : 0.0016≤ 0.60 for Max Power Density, compliance RF exposure..

Note: This product does not support simultaneous delivery.

Alex

Signature: Date: 2025/2/25

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