RF EXPOSURE EVALUATION

According to FCC 1.1310 and KDB 447498 D01 V06, 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)
According to FCC2.1091
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/f	4.89/f	$*900/f^2$	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 General Population/Uncontrolled Exposure				
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
300-1,500			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/m²) = $\frac{E^2}{377}$

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

2.4G WIFI

Operation Frequency:
WIFI 802.11b/g/n HT20: 2412-2462MHz,
Power density limited: 1mW/ cm^2
Antenna Type: Glue stick Antenna
Antenna gain: 2.26 dBi;
R=20cm
mW=10^(dBm/10)
Antenna gain Numeric=10^(dBi/10)

Antenna	Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
			(dBm)		tune-up power		Gain		(mW/cm2)	(mW/cm2)
					(dBm)	(mW)	(dBi)	Numeric		
Ant 1	2412	b	12.99	13±1	14	25.119	2.26	1.68	0.0084	1
Ant 1	2437		13	13±1	14	25.119	2.26	1.68	0.0084	1
Ant 1	2462		13.57	13±1	14	25.119	2.26	1.68	0.0084	1
Ant 1	2412	g	10.81	11±1	12	15.849	2.26	1.68	0.0053	1
Ant 1	2437		10.96	11±1	12	15.849	2.26	1.68	0.0053	1
Ant 1	2462		11.69	11±1	12	15.849	2.26	1.68	0.0053	1
Ant 1	2412	802.11n H20	10.49	11±1	12	15.849	2.26	1.68	0.0053	1
Ant 1	2437		10.66	11±1	12	15.849	2.26	1.68	0.0053	1
Ant 1	2462		11.63	11±1	12	15.849	2.26	1.68	0.0053	1
Ant 1	2422	802.11n H40	11.37	11±1	12	15.849	2.26	1.68	0.0053	1
Ant 1	2437		11.5	11±1	12	15.849	2.26	1.68	0.0053	1
Ant 1	2452		11.94	11±1	12	15.849	2.26	1.68	0.0053	1

Conclusion:
For the max result : 0.0084≤ 1.0, SAR is not required.

Signature: **Date:** 2026-01-20

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