



RF EXPOSURE EVALUATION

FCC ID : ZE8-PAS-K01-12-B

Standard Requirement

[Limit §1.1310(d)(3) & KDB 447498]

At operating frequencies above 6 GHz, the MPE limits listed in Table 1 in paragraph (e)(1) of this section shall be used in all cases to evaluate the environmental impact of human exposure to RF radiation as specified in § 1.1307(b)* of this part.

*§ 1.1307(b)(1) Determine that they qualify for an exemption pursuant to § 1.1307(b)(3)

Table 1 to §1.1310(e)(1) - 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			<u>1.0</u>	< 30

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

[Determination of exemption §1.1307(b)(3) & KDB 447498]

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device)
A single RF source is exempt if:

The available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

Results

Measured peak power E.I.R.P [dBm]	Duty cycle factor [dB]	Tune-up Tolerance [dB]	*maximum time-averaged power [dBm]	maximum time-averaged power [mW]	Limit [mW]
-25.9	0.96	0.05	-24.89	0.0032	1
*maximum time-averaged power [dBm] = Measured peak power E.I.R.P [dBm] + Tune-up Tolerance + Duty cycle factor *This value was calculated assuming a worst-case scenario with a 100% duty cycle. Under actual operating conditions, applying the real duty cycle will yield a value significantly lower than the presented result.					

Conclusion

This confirms compliance to the required Radio frequency radiation exposure limit.

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