

CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel: +82-31-339-9970 Fax: +82-31-624-9501 www.e-ctk.com

RF EXPOSURE EVALUATION

FCC ID: 2AFWN-EL029C3

Standard Requirement

The following FCC Rule Parts and procedures are applicable:

Part 1.1310 Radiofrequency radiation exposure limits

Part 2.1091 Radiofrequency radiation exposure evaluation : Mobile device KDB447498 D01 v06 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

Table 1 below sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields.

Table 1—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	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



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MPE calculation

 $S = EIRP / (4\pi R^2)$

Where S: Power density

EIRP: PxG

P: Maximum transmitter power

G: Antenna gain

R: distance to the centre of radiation of the antenna

EUT RF Exposure

P: -1.160 dBm (0.766 mW) G: -0.33 dBi (x 0.927)

R: 20 cm

 $S = 0.000141 \text{ mW/cm}^2$

Conclusion

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