

FCC ID: 2A77SBLKSIMTEK22

REQUIREMENT

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 Exposures				
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
300–1500	-	-	f/300	6
1500–100,000	-	-	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
300–1500	-	-	f/1500	30
1500–100,000	-	-	1.0	30

Note: f = frequency in MHz

EVALUATION METHOD

Transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm², P_{out} = output power to antenna in mW, G = gain of antenna in linear scale;

P_i = 3.1416, R = distance between observation point and center of the radiator in cm

Assessment Result

☒ Passed ☐ Not Applicable

Frequency range (MHz)	Type	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
848.8	GSM850	28.58	29.00	0.2018	0.5659	Pass
1880	PCS1900	25.67	26.00	0.1011	1.0000	Pass
1880	WCDMA Band 2	27.75	28.00	0.1603	1.0000	Pass
1752.6	WCDMA Band 4	26.74	27.00	0.1273	1.0000	Pass
846.6	WCDMA Band 5	27.22	27.50	0.1429	0.5644	Pass
1908.5	LTE Band 2	21.05	21.50	0.0359	1.0000	Pass
1711.5	LTE Band 4	21.2	21.50	0.0359	1.0000	Pass
847.5	LTE Band 5	19.18	19.50	0.0226	0.5650	Pass
714.5	LTE Band 12	19.44	19.50	0.0226	0.4943	Pass
782	LTE Band 13	16.39	16.50	0.0113	0.5213	Pass
1910	LTE Band 25	21.16	21.50	0.0359	1.0000	Pass
822.5	LTE Band 26	19.14	19.50	0.0226	0.5483	Pass
2595	LTE Band 38	20.89	21.00	0.0320	1.0000	Pass
2593	LTE Band 41	20.99	21.00	0.0320	1.0000	Pass

Note: The exposure evaluation safety distance is 25cm.