GTS Global United Technology Services Co., Ltd.

FCC ID: 2AQBD-60234

RF Exposure Evaluation

Limits

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/cm²)	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/f²)	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/f²)	30							
30–300	27.5	0.073	0.2	30							
300–1500			f/1500	30							
1500–100,000			1.0	30							

f = frequency in MHz

Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm², **Pout** = output power to antenna in mW;

G = gain of antenna in linear scale, **Pi** = 3.1416;

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

Pd id the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, and highest channel individually.

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Test Result of RF Exposure Evaluation

Antenna gain=2.46dBi

Test	Minimum	Output	Target	Target	Antonno	Power	Power	
Frequency	Separation	Output Power	power	power	Antenna Gain	Density	Density	Test
(MHz)	Distance	(dBm)	(dBm)	(mW)	(Numeric)	Limit	At 20 cm	Results
(WITIZ)	(cm)	(ubiii)			(Numeric)	(mW/cm^2)	(mW/cm^2)	
2412	20.00	15.41	15±1	39.81	1.76	1	0.014	Pass
2437	20.00	15.23	15±1	39.81	1.76	1	0.014	Pass
2462	20.00	16.15	16±1	50.12	1.76	1	0.0176	Pass

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure.