FCC ID: 2BEF7-KB-BC80

RF Exposure Evaluation

FCC KDB publication 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

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)	
of the state of the	(A) Limits	for Occupational/Controlled	Exposures	TESTIME OF SCHOOL	
0.3–3.0	614	1.63	*(100)	Contract Con	
3.0–30	1842/f	4.89/f	*(900/f²)	C C C C C C C C C C C C C C C C C C C	
30–300	61.4	0.163	15 TO 1.00 CHE	1 6 KE 51	
300–1500	RETURN OF STA	The contraction of	f/300	THE STATE OF THE	
1500–100,000	of the the time of the	CO STATE OF	5 K5 KM	6 1 16 6 6 G	
Me Co of the time	(B) Limits for	General Population/Uncontro	olled Exposure	S OF THE THE CO	
0.3–1.34	614	0 (1.63	*(100)	30 1	
1.34–30	824/f	2.19/f	*(180/f²)	30 6 6	
30–300	27.5	0.073	0.2	5 (4) (30 s	
300–1500	of the light the co	Collins of the second	f/1500	30 5	
1500–100,000	NE CONTRACTOR	o of the light of the	25 N 1.0 ()	30 (5)	

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.



Test Result of RF Exposure Evaluation

Antenna gain=-0.68dBi

For BT

Test Frequency (MHz)	Minimum Separation Distance (cm)	Output Power (dBm)	Target power (dBm)	Target power (mW)	Antenna Gain (Numeric)	Power Density Limit (mW/cm²)	Power Density At 20 cm (mW/cm ²)	Test Results
2402	20.00	© 2.2 ×	2±1	1.995	0.86		0.0003	Pass
2441	20.00	2.39	2±1	1.995	0.86	ESTIMATE OF	0.0003	Pass
2480	20.00	2.19	2±1	1.995	0.86	TES THE	0.0003	Pass

Test Frequency (MHz)	Minimum Separation Distance (cm)	Output Power (dBm)	Target power (dBm)	Target power (mW)	Antenna Gain (Numeric)	Power Density Limit (mW/cm²)	Power Density At 20 cm (mW/cm²)	Test Results
2402	20.00	0.95	√° 1±1 ¯	1.585	0.86	1 00	0.0003	Pass
2440	20.00	1.22	∘ 1±1°	1.585	0.86	1511	0.0003	Pass
2480	20.00	0.96	1±1	1.585	0.86	of the state	0.0003	Pass

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