

FCC ID:2BLPR-B965

RF Exposure Evaluation

According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1091, Unless specifically required by the *published RF exposure KDB procedures*, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding *SAR Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

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	Magnetic field	Power density	Averaging time			
		strength	strength (mW/cm²)		(minutes)			
		(V/m)	(A/m)	(IIIVV/CIII)	(IIIIIIutes)			
(A) Limits for Occupational/Controlled Exposures								
0.0	3–3.0	614	1.63	*(100)	6			
3.0–30 30–300		1842/f	4.89/f	*(900/f ²)	6			
		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			
1.3	34–30	824/f	2.19/f	*(180/f ²)	30			
30–300		27.5	0.073	0.2	30			
300	–1500	110		f/1500	30			
1500-	-100,000			1.0	30			

f = frequency in MHz

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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, middle and highest channel individually.

Test Result of RF Exposure Evaluation

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	Max. Output	Max. Output	Max. Power			
Mode	power to	power to	Density at	Limit	Result	
iviode	antenna	antenna	R=20cm	(mW/cm2)	Result	
Ĭ	(dBm)	(mW)	(mW/cm2)	44		
BLE	-0.81	0.83	0.002	1.0	PASS	
ВТ	0.66	1.16	0.002	1.0	PASS	

Remark: Antenna gain=0dBi

Conclusion:No RF Exposure Evaluation/SAR test is required.











































