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MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Standard Applicable 1.1

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time	
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(minute)	
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	
1500-15000	/	/	1.0	30	

F = frequency in MHz

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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^{* =} Plane-wave equipment power density



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1.2 Maximum Permissible Exposure (MPE) Evaluation

BLE mode: Tune up tolerance ± dBm						
СН	Frequency (MHz)	Max. Output include tune up tolerance Power (dBm)	Required Limit			
0	2402	5.07	1 Watt = 30 dBm			
20	2442	5.09	1 Watt = 30 dBm			
39	2480	5.01	1 Watt = 30 dBm			

MPE Prediction

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=PG/4\pi R^2$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

5.09	(dBm)
3.2284941	(mW)
64.1	(%)
2.0694647	(mW)
1.39	(dBi)
1.3772095	(numeric)
20	(cm)
2442	(MHz)
1	(mW/cm2)
0.001	(mW/cm^2)
	5.09 3.2284941 64.1 2.0694647 1.39 1.3772095 20 2442 1 0.001

Measurement Result

The predicted power density level at 20 cm is 0.001 mW/cm2.

This is below the uncontrolled exposure limit of 1 mW/cm2 at 2442MHz.

~ End of Report ~

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