



15 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

15.1 Standard Applicable

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

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

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





802.11a Max. output power

802.11a MIMO

СН	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL	TOTAL	REQUIRED	DEOLU T
			CH 0	CH 1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
36	5180	6	20.18	18.1	22.49	168.797	24.05	PASS
44	5220	6	20.17	18.09	22.48	168.409	24.05	PASS
48	5240	6	20.09	18.2	22.47	168.163	24.05	PASS
149	5745	6	19.63	18.82	22.47	168.041	24.43	PASS
157	5785	6	19.89	18.51	22.48	168.457	24.43	PASS
165	5825	6	20.12	18.18	22.48	168.567	24.43	PASS

MPE Prediction (802.11a 5150~5250)

(dBm)
(mW)
(%)
(mW)
(dBi)
(numeric)
(cm)
(MHz)
(mW/cm2)
(mW/cm^2)

Measurement Result

The predicted power density level at 20 cm is 0.529 mW/cm2.

This is below the uncontrolled exposure limit of 1 mW/cm2 at 5180MHz.

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