

TABLE I

CLASS I ACCESSIBLE EMISSION LIMITS FOR LASER RADIATION

Wavelength (nanometers)	Emission duration (seconds)	Class I-Accessible emission limits		
		(value)	(unit)	(quantity)**
>180 but ≤400	≤3.0 X 10 ⁴ ----- >3.0 X 10 ⁴	2.4 X 10 ⁻⁵ k ₁ k ₂ * 8.0 X 10 ⁻¹⁰ k ₁ k ₂ *	Joules(J)* Watts(W)*	radiant energy radiant power
>400 but	>1.0 X 10 ⁻⁹ to 2.0 X 10 ⁻⁵ ----- >2.0 X 10 ⁻⁵ to 1.0 X 10 ¹ ----- >1.0 X 10 ¹ to 1.0 X 10 ⁴ ----- >1.0 X 10 ⁴	2.0 X 10 ⁻⁷ k ₁ k ₂ 7.0 X 10 ⁻⁴ k ₁ k ₂ t ^{3/4} 3.9 X 10 ⁻³ k ₁ k ₂ 3.9 X 10 ⁻⁷ k ₁ k ₂	J J J W	radiant energy radiant energy radiant energy radiant power
≤1400	and also (See paragraph (d)(4) of this section)			
>1400 but	>1.0 X 10 ⁻⁹ to 1.0 X 10 ¹ ----- >1.0 X 10 ¹ to 1.0 X 10 ⁴ ----- >1.0 X 10 ⁴	10k ₁ k ₂ t ^{1/3} 20k ₁ k ₂ 2.0 X 10 ⁻³ k ₁ k ₂	Jcm ⁻² sr ⁻¹ Jcm ⁻² sr ⁻¹ Wcm ⁻² sr ⁻¹	integrated radiance integrated radiance radiance
>1400 but	>1.0 X 10 ⁻⁹ to 1.0 X 10 ⁻⁷ ----- >1.0 X 10 ⁻⁷ to 1.0 X 10 ¹ ----- >1.0 X 10 ¹	7.9 X 10 ⁻⁵ k ₁ k ₂ 4.4 X 10 ⁻³ k ₁ k ₂ t ^{1/4} 7.9 X 10 ⁻⁴ k ₁ k ₂	J J W	radiant energy radiant energy radiant power
>2500 but	>1.0 X 10 ⁻⁹ to 1.0 X 10 ⁻⁷ ----- >1.0 X 10 ⁻⁷ to 1.0 X 10 ¹ ----- >1.0 X 10 ¹	1.0 X 10 ⁻² k ₁ k ₂ 5.6 X 10 ⁻¹ k ₁ k ₂ t ^{1/4} 1.0 X 10 ⁻¹ k ₁ k ₂ t	Jcm ⁻² Jcm ⁻² Jcm ⁻²	radiant exposure radiant exposure radiant exposure
<1.0 X 10 ⁶	>1.0 X 10 ¹	1.0 X 10 ⁻¹ k ₁ k ₂	Jcm ⁻²	radiant exposure

*Class I accessible emission limits for wavelengths equal to or greater than 180 nm but less than or equal to 400 nm shall not exceed the Class I accessible emission limits for the wavelengths greater than 1400 nm but less than or equal to 1.0 X 10⁶ nm with a k₁ and k₂ of 1.0 for comparable sampling intervals.

**Measurement parameters and test conditions shall be in accordance with paragraphs (d)(1), (2), (3), and (4), and (e) of this section.