

**Available Spectrum and Channel Limits By Allocated Service (MHz)**

Frequency Bands		Earth Exploration-Satellite		Space Research		Space Ops/Inter-Satellite	Space Research (Deep Space) (> 2M km)		Limits (if any): Max Channel Bandwidth (MHz)
Band-Lower (MHz)	Band-Upper (MHz)	Uplink (Earth-to-space)	Downlink (space-to-Earth)	Uplink (Earth-to-space)	Downlink (space-to-Earth)	(space-to-space)	Uplink (Earth-to-space)	Downlink (space-to-Earth)	
2025	2110	85		85		85			5
2110	2120						10		
2200	2290		90		90	90			5
2290	2300							10	
7145	7190						45		
7190	7235	45		45					
7235	7250	15							
8025	8400		375						
8400	8450							50	12 (8 for Mars)
8450	8500				50				10
22550	23150			600		600			
23150	23550					400			
25500	27000		1500		1500	2250*			
31800	32300							500	60
34200	34700						500		

\*Allocation from 25250-27500 MHz