

NAL Research Corp.'s Request for Experimental Authorization

Table 1: Particulars of Operation

Lower Freq MHz	Upper Freq MHz	Input Power (watts) ¹	ERP (watts) ²	Mean/Peak	Freq. Tolerance (%)	Station Class
1618.725	1626.0	1.8	4.8	M	0.0021	FX
1618.725	1626.0	1.8	4.8	M	0.0021	FX
1618.725	1626.0	1.8	4.8	M	0.0021	FX
1618.725	1626.0	6.0	9.0	M	0.0021	FX

¹ **NOTE:** defined as the nominal mean power input from the 9770 transceiver unit into the antenna in transmit mode.

² **NOTE:** ERP(dBW) = EIRP(dBW) – 2.15 dB.

Table 2: Emission Data

Emission Designator	Modulating Signal	Necessary Bandwidth (KHz)
41K7Q7W	25,000	41.7
41K7Q7W	30,000	41.7
83K0Q7W	60,000	83.0
333KQ7W	175,000	333.33

Table 3: Beamwidth and Antenna Gain

	3dB Beamwidth (degrees)	Gain (dBi)
Transmit	Hemisphere omni	3.0
Receive	Hemisphere omni	3.0