

LIST OF TABLES

Table 3.1. PSL, Width of Mainlobe, PCR and MLL for LFM and LFM with windowing	19
Table 3.2. NLFM Taylor Coefficients	31
Table 4.1 NLFM TSPW+ with sidelobe control factor = 0.195	39
Table 4.2 NLFM S+ with sidelobe control factor = 2.5	40
Table 4.3 NLFM Taylor with Taylor coefficients n= 30	42
Table 4.4 NLFM Curve+/- with sidelobe control factor = 20	44
Table 4.5 Table result NLFM TSPW- with sidelobe control factor = 0.195	45
Table 4.6 Table result NLFM S- with sidelobe control factor = 2.65	47
Table 4.7 Background Noise to Peak Sidelobe Level of NLFM TSPW+, S+ and Taylor	48
Table 4.8 Background Noise to Peak Sidelobe Level of NLFM TSPW-, S- and Curve+/-	49
Table 4.9 Background Noise to Mainlobe Level of NLFM TSPW+, S+ and Taylor	50
Table 4.10 Background Noise to Mainlobe Level of NLFM TSPW-, S- and Curve+/-	50
Table 4.11 Background Noise to Width of Mainlobe of NLFM TSPW+, S+ and Taylor	51
Table 4.12 Background Noise to Width of Mainlobe of NLFM TSPW-, S- and Curve+/-	52
Table 4.13 Doppler effect to Peak Sidelobe Level of NLFM TSPW+, S+ and Taylor	53
Table 4.14 Doppler effect to Peak Sidelobe Level of NLFM TSPW-, S- and Curve+/-	54
Table 4.15 Doppler effect to Mainlobe Level of NLFM TSPW+, S+ and Taylor	55
Table 4.16 Doppler effect to Mainlobe Level of NLFM TSPW-, S- and Curve+/-	56
Table 4.17 Table result of Doppler effect to Width of Mainlobe of NLFM TSPW+, S+ and Taylor	57
Table 4.18 Doppler effect to Width of Mainlobe of NLFM TSPW-, S- and Curve+/-	58
Table 4.19 Table result of Doppler effect to Time-Shift of NLFM TSPW+, S+ and Taylor	59
Table 4.20 Doppler effect to Time-Shift of NLFM TSPW-, S- and Curve+/-	59
Table 4.21 Pulse Compression Performance	64
Table 4.22 Background Noise	65
Table 4.23 Background Noise “Continued”	66

Table 4.24 Doppler Effect	67
Table 4.25 Doppler Effect “Continued”	68