**INITIAL GLOBAL PARAMETERS (Needed for SLR pulse generaton)**

mmggamma = 42.60 gamma

mmgresol = 10000 Resolution of calculations

mmgzpad = 0 Zero padding

mmgpfilt = 0 Use remez algorithm

mmgdwelr = 0.2 Dwell resolution (us)

**SLR PULSE GENERATION (Single band, refocused, no zerofilling, )**

PARAMETERS:

mpgbands 1 for single band, 2 for dual bands

mpltype 1 for linear phase, 2,3 for max, min phase

mplcat 1 for 90, 2 for 180, 3 for 30 (shallow) ((This tip category no longer needed))

mpgang tip angle in radians (But entered in degrees)

mpgnofp Number of steps (points)

mpgpulms Pulse length (ms)

mpgbdwd Bandwidth (kHz)

mplbprc Passand ripple

mplbrrc Rejectionband ripple

**FUNCTIONS**

mpltbndc Calls mplrb1c for linear phase pulse; calculates mpltrans (transition bandwidth)

mplrb1c Uses Lee’s results (along with Pauly,et al.) for transition band

mplcalcc Calculates pulse and profile; calls mplrb1c (above), mplfiltl (for polynomials), and mplpmb1f

mplfiltl Calls remez.m for b polynomial, and generates a polynomial (See Pauly)

mplpmb1f Does inverse SLR to get b1 from polynomials