wwwMatLab2009.txt
J.R.Andrews,KH6HTV, PSPL, 7 Sept. 2009
NOTES for MatLab programs distributed to www.picosecond.com requests
Each program contains a lot of explanatory notes on how to use it.
Some programs also include technical references.

PulseMeasV31.m	performs Pulse Parameter Analysis of a pulse waveform.
(8/31/09)	plots waveform and gives a table of results. Measures either
NEW	step-like or impulsive waveforms or measures all pulses in
	a multiple pulse train. Uses histogram method to determine
	0% baseline and 100% topline levels.
SpecAnalysisV21.m	Spectrum Analyzer program for periodic or transient waveforms
(9/7/09)	measured by a digital oscilloscope. For details see
	PSPL app.note AN-16a -- minor mod from 2004 version 2.0
TDVNAv21.m	Time Domain Vector Network Analyzer program to determine S11
(9/7/09)	& S21 parameters from digital oscilloscope TDR & TDT
	measurements. For details, see PSPL app. note, AN-16a
	--- minor mod from 2004 version 2.0
HdeconV3.m	Deconvolution program. Determines system impulse response,
(9/7/09)	h(t) from input & output TDT waveforms measured by a digital
NEW	oscilloscope. See PSPL app.note, AN-18
	Includes a selection of decon filters, plus a NEW Noise Floor filter.
VinDeconV31.m	Deconvolution program. Determines input waveform, vin (t)
(9/6/09)	from output waveform, vout(t) and system impulse response,
NEW	h(t). General purpose program for most waveforms.
	h(t) must have a time window of2*Tw and have 2*N data points
	For details, see PSPL app.note, AN-18
	Includes a selection of decon filters, plus a NEW Noise Floor filter.

JitterDeconV1.m (8/28/09) NEW	Jitter Deconvolution program. Deconvolution of vin(t) from vout(t) & jitter Gaussian impulse response hj(t). Uses NEW Noise Floor Filter technique. See PSPL app. note, AN-23
Plot4Waveforms.m (9/7/09)	Waveform plotting program for 1 to 4 waveforms. All must be for same time window and have same # of data points.
WaveModifyV1.m (11/8/04)	program allows user to modify a waveform array, by reducing # of data points, time shifting and zero padding.
WaveModifyV2.m (11/10/04)	program allows user to modify a waveform array, by time shifting, and selecting a smaller time window and altering the # of data points (more or less) using interpolation.