Title: **Test Data for Huaxin**
Date: **12-Jan-15**
Signal Source: **H1**

	Entered by user
	Result
	Calculated or obtained from other sheet

Azimuth		**Elevation**	
Az Peak	-41.47	El Peak	-40.51
Az Pk-3dB	-44.47	El Pk-3dB	-43.51
Az pts in 3dB	10	El pts in 3dB	6
Az 3dB BW (deg)	0.2744	El 3dB BW (deg)	0.2768
Az Pk-10dB	-51.47	El Pk-10dB	-50.51
Az pts in 10dB	17	El pts in 10dB	10
Az 10dB BW (deg)	0.4665	El 10dB BW (deg)	0.4613
Az Sweep Time (s)	320.00	El Sweep Time (s)	320.00
Az Sweep Dist. (deg)	15.7	El Sweep Dist. (deg)	18.5
Az Speed (deg/s)	15.5000	El Speed (deg/s)	0.0578
Elevation angle	45.5		44.5000
Corr Az Sweep Dist.	11.0043	=AzSweep*cos(EL angle)	
Corr Az speed	0.0344		
Corr Az 3dB BW	0.1923		
Corr Az 10dB BW	0.3270		

G3 value	582242.91	G10 value	603234.59
=31000/(Az3dBbw*El3dBbw)		=91000/(Az10dBbw*El10dBbw)	

Feed Loss (dB)	0.35	RMS (inches)	0.030
Rx Frequency(GHz)	11.9000	RMS Loss (dB)	0.627
Tx Frequency(GHz)	14.2500	=4.92*Freq^2*RMS^2	

Rx GAIN	**56.75**
=10*LOG((G3+G10)/2)-FeedLoss-RMSLoss	
Tx GAIN	**58.32**
=20*LOG(TxFreq/RxFreq)+RxGain	

Az Curve		**El Curve**	
% out-of-spec	**0.00**	% out-of-spec	**0.00**
Gain	56.75	Gain	56.75
Offset	-5.16	Offset	-8.41
=~(Corr Az Sweep Dist.) / 2		=~(El Sweep Dist.) / 2	

(29/32) - 25log(θ)	29	No. data points	401
Start θ from centre	1.5