

Ka-band Sensitivity Calibration Parameters
Peisang Tsai

Existing calibration files

Parameters	9/29/11 ops	11/10/11 new magnetron	12/18/11 PRF 800 Hz
pulseWidthUs	0.5	0.5	0.5
xmitPowerDbmH	72.56	71.54	71.26
xmitPowerDbmV	72.56	71.54	71.26
radarConstH	67.2527	68.2727	68.5527
radarConstV	67.2527	68.2727	68.5527
noiseDbmHc	-66.2856	-66.2856	-66.2856
noiseDbmVc	-65.4984	-65.4984	-65.4984
receiverGainDbHc	38.2249	38.2249	38.2249
receiverGainDbVc	37.9156	37.9156	37.9156
baseDbz1kmHc	-37.2588	-36.2358	-35.9558
baseDbz1kmVc	-36.1585	-35.1385	-34.8585
Sensitivity difference	-0.244	-0.241	-0.241

Calculated Parameters

radarConstH	67.4957	68.5157	68.7957
radarConstV	67.4957	68.5157	68.7957
baseDbz1kmHc	-37.0148	-35.9948	-35.7148
baseDbz1kmVc	-35.9183	-34.8983	-34.6183
baseDbz10kmHc	-17.0148	-15.9948	-15.7148
baseDbz10kmVc	-15.9183	-14.8983	-14.6183