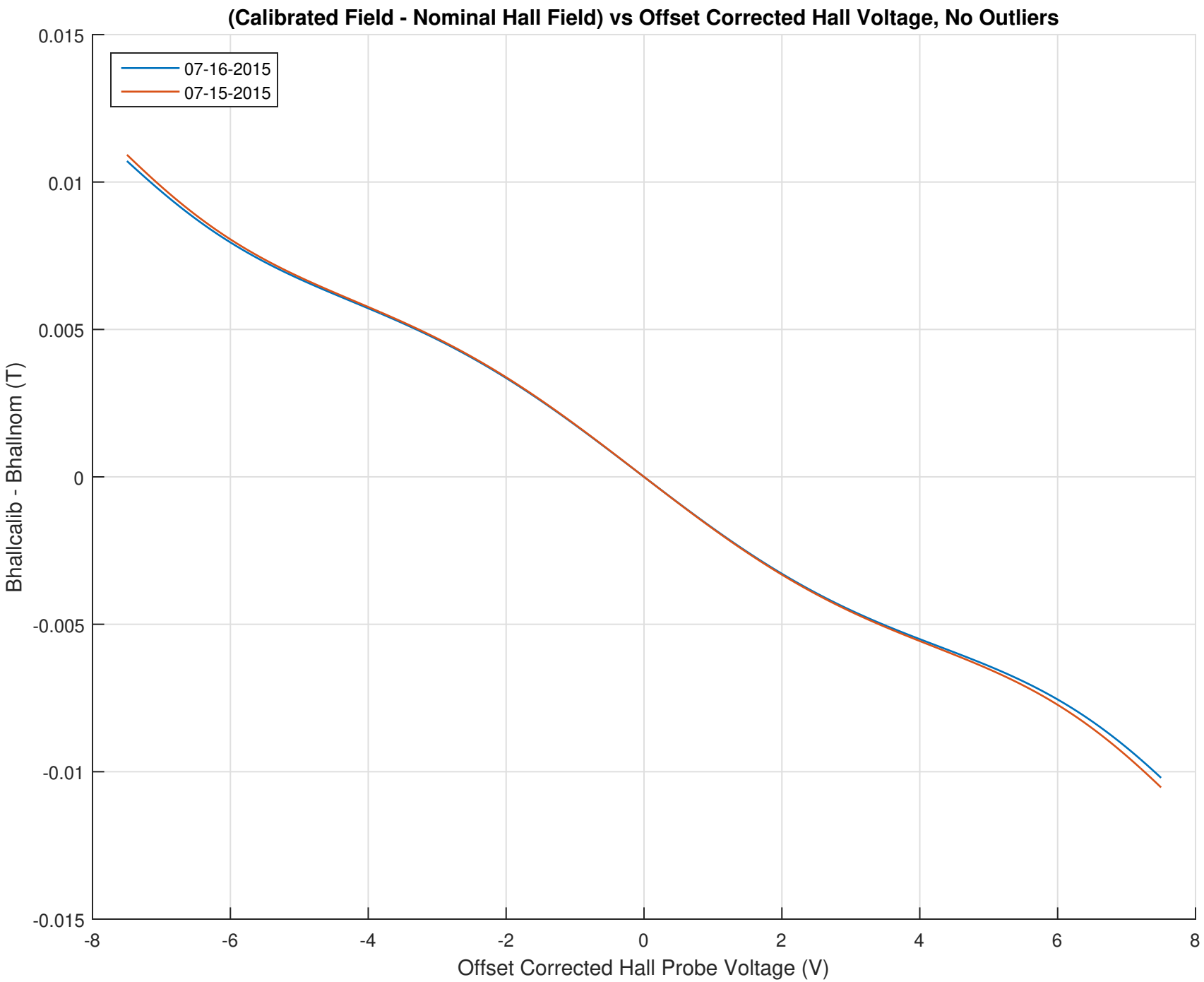
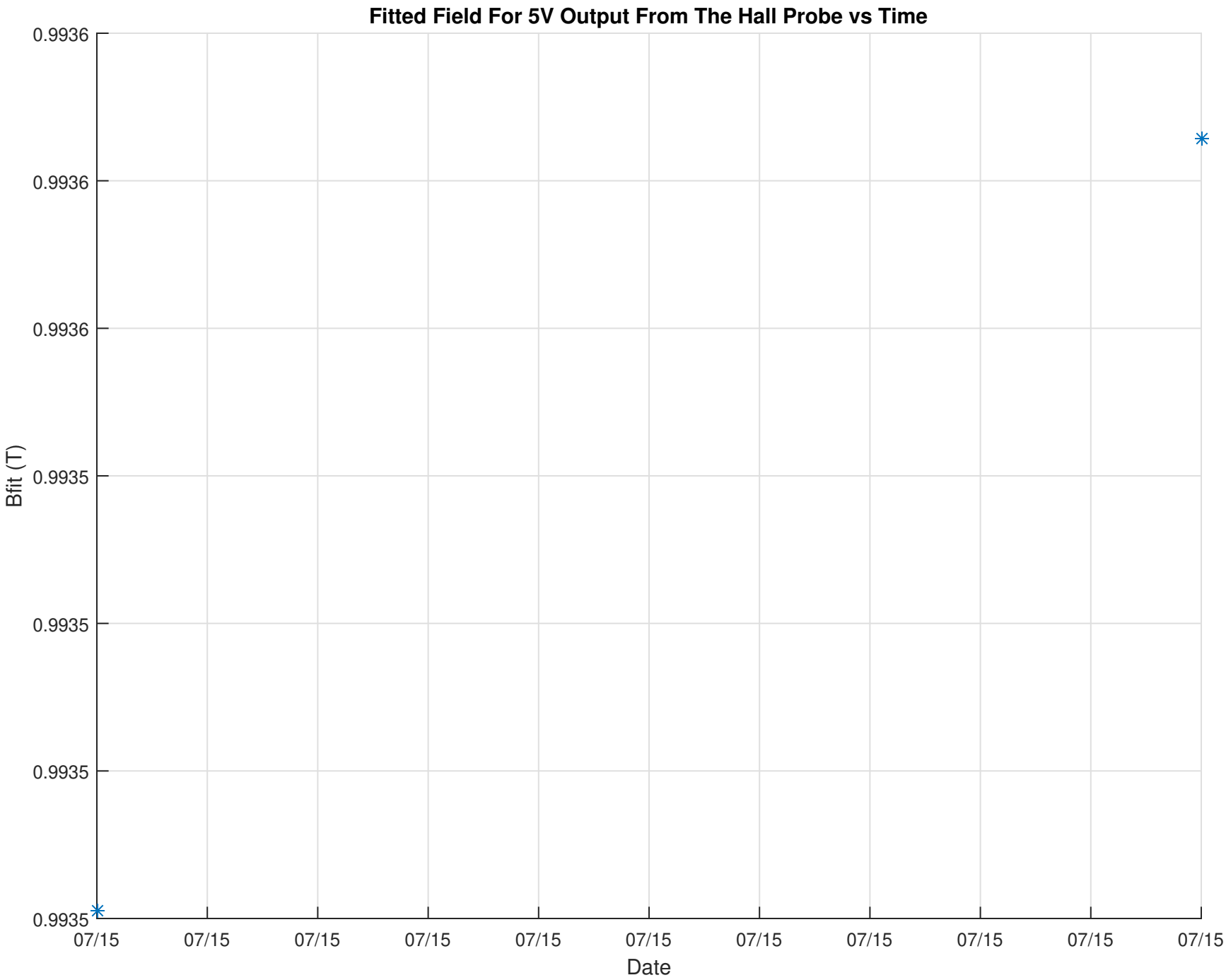
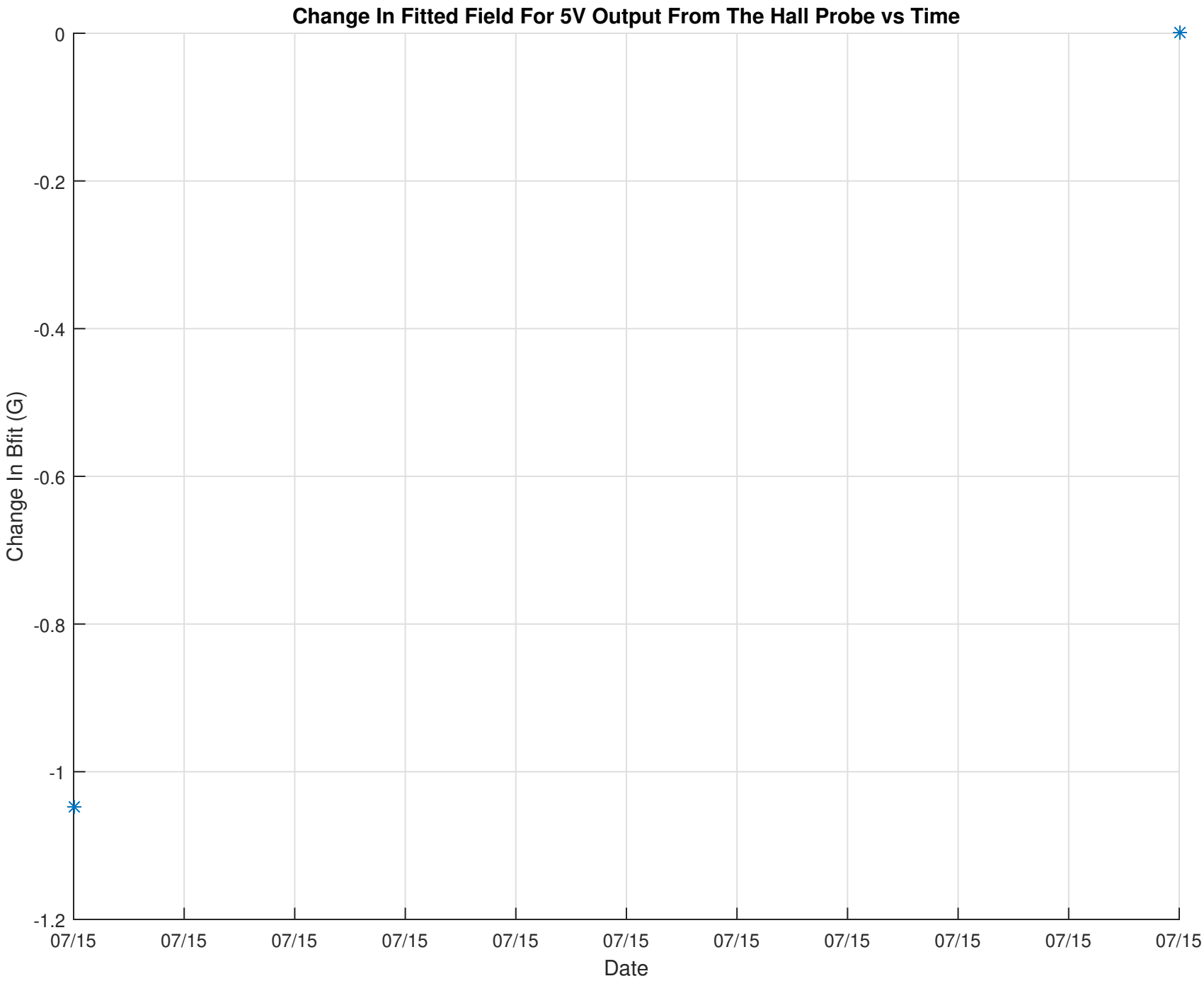
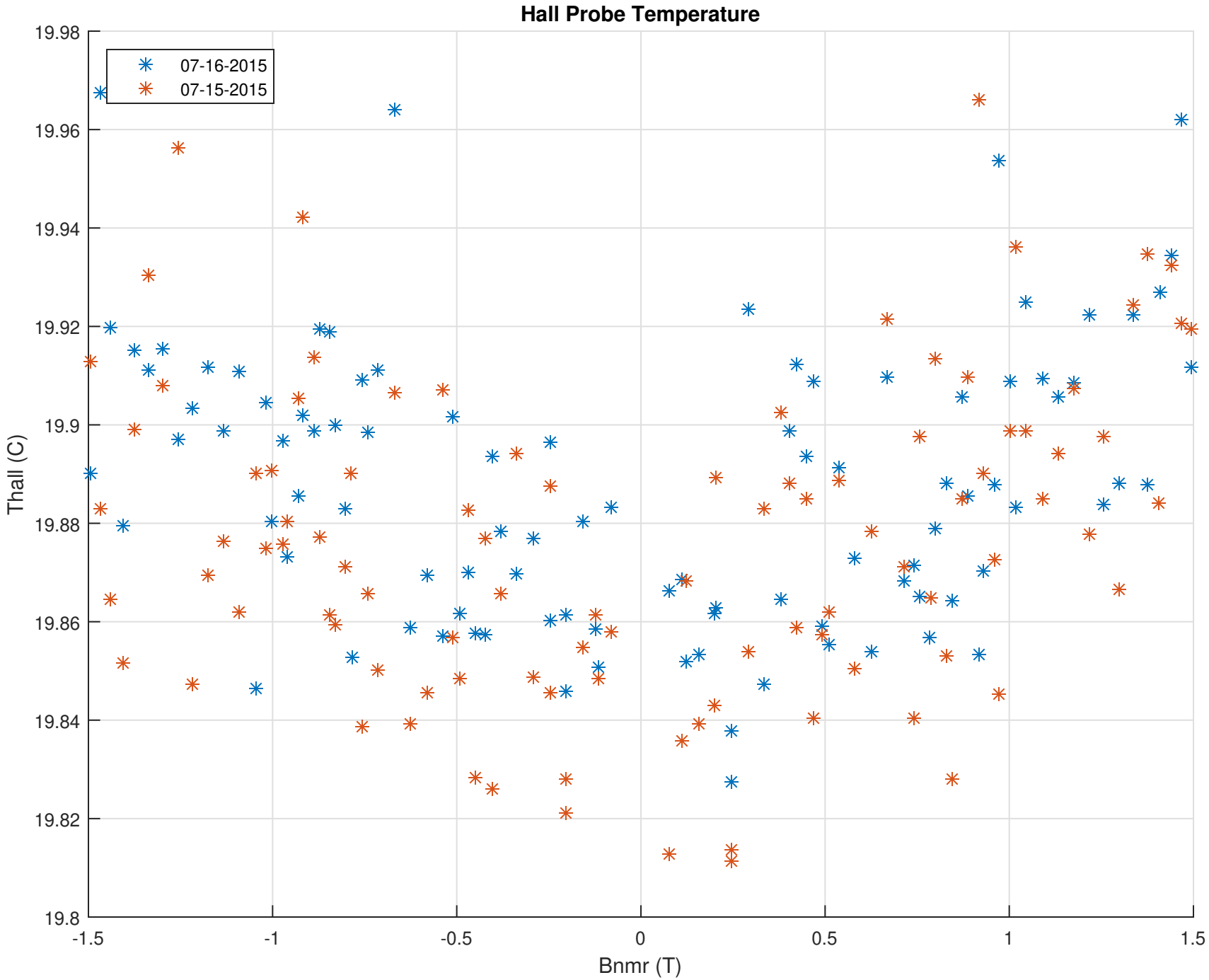
SLAC Magnetic Measurements
Hall Probe Calibration History

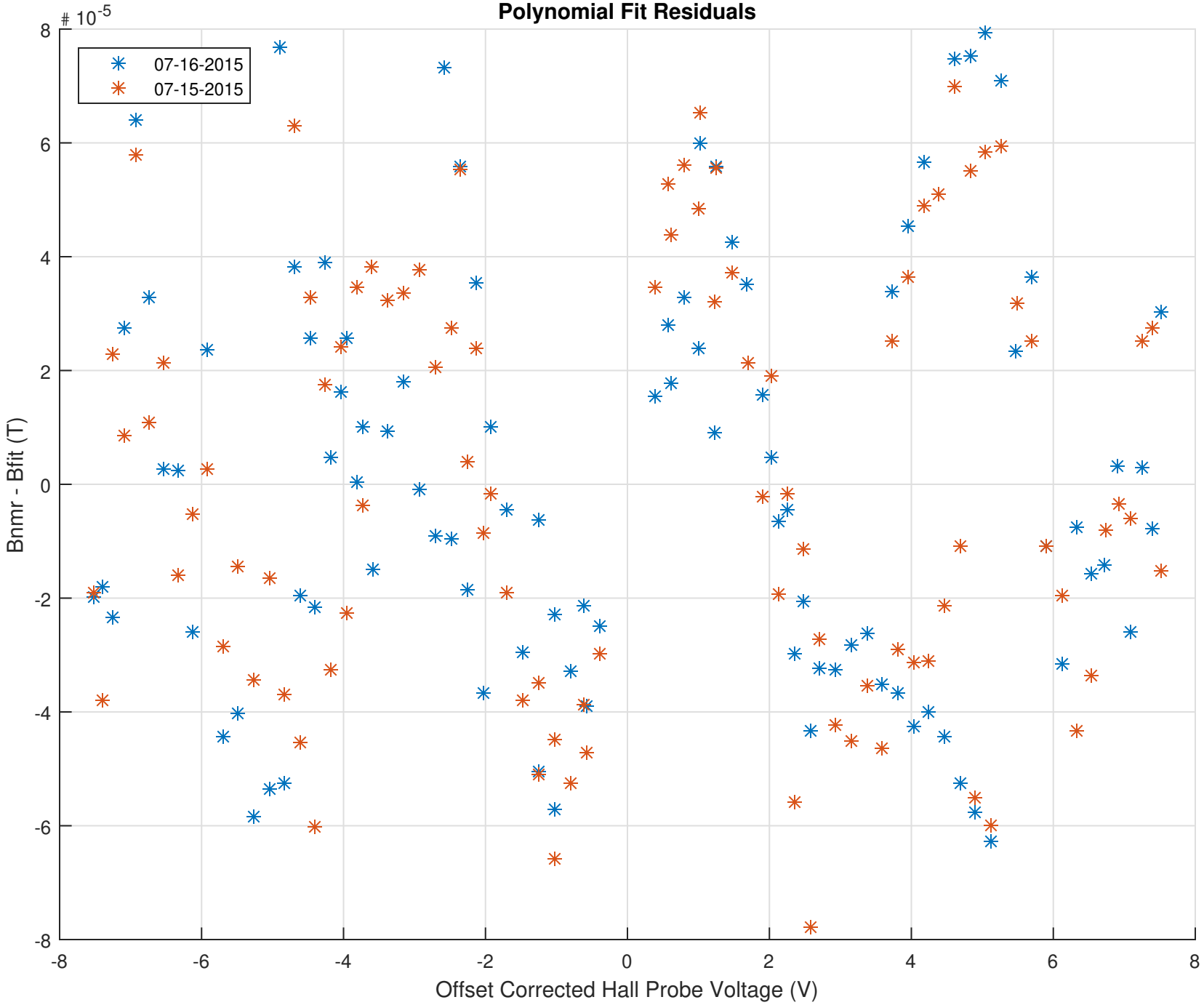
Hall Probe: $SENIS_1$ 17-14

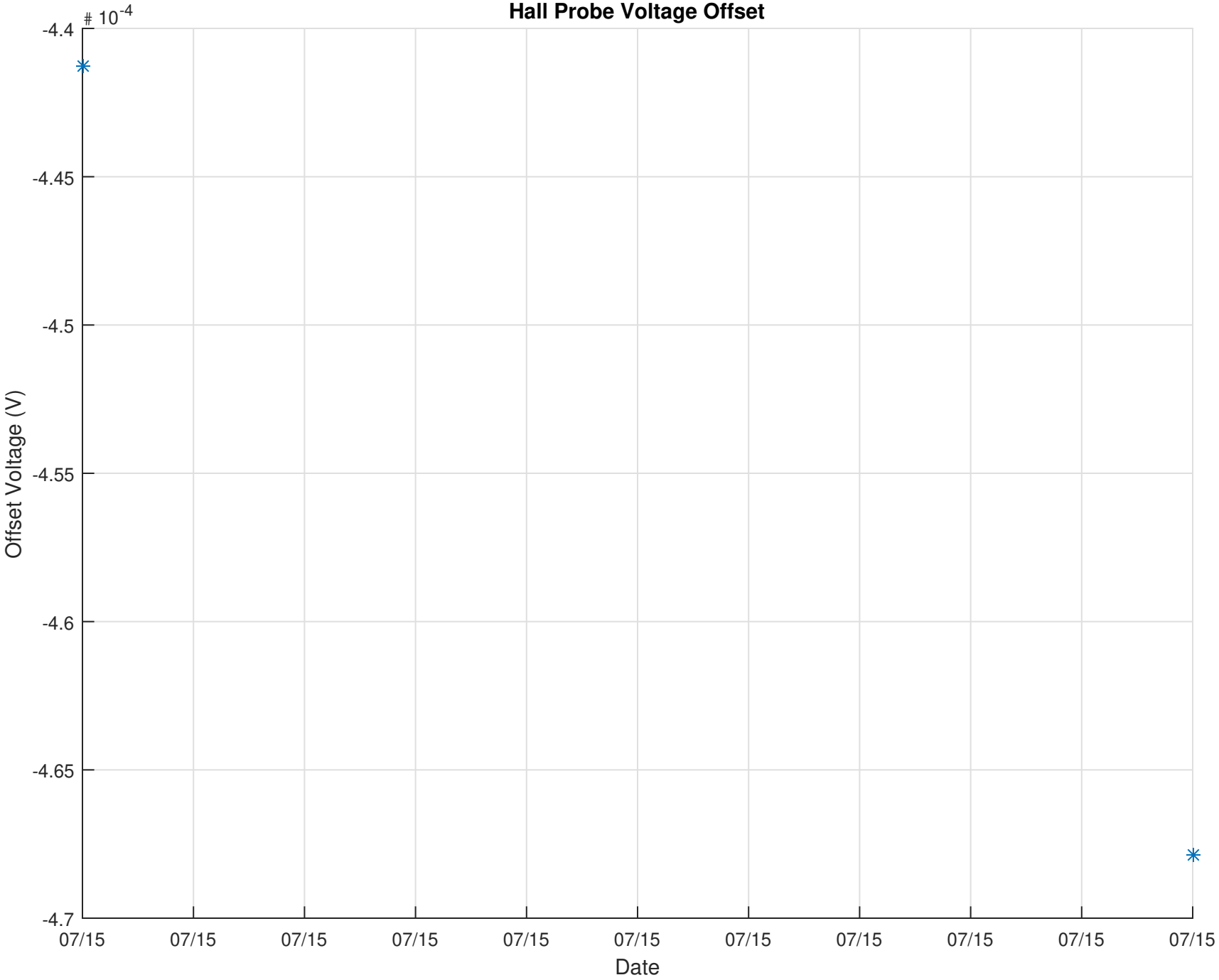

(Calibrated Field - Nominal Hall Field) vs Offset Corrected Hall Voltage, No Outliers
07-16-2015
07-15-2015
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
Bhallcalib - Bhallnom (T)
-8
-6
-4
-2
0
2
4
6
8
Offset Corrected Hall Probe Voltage (V)

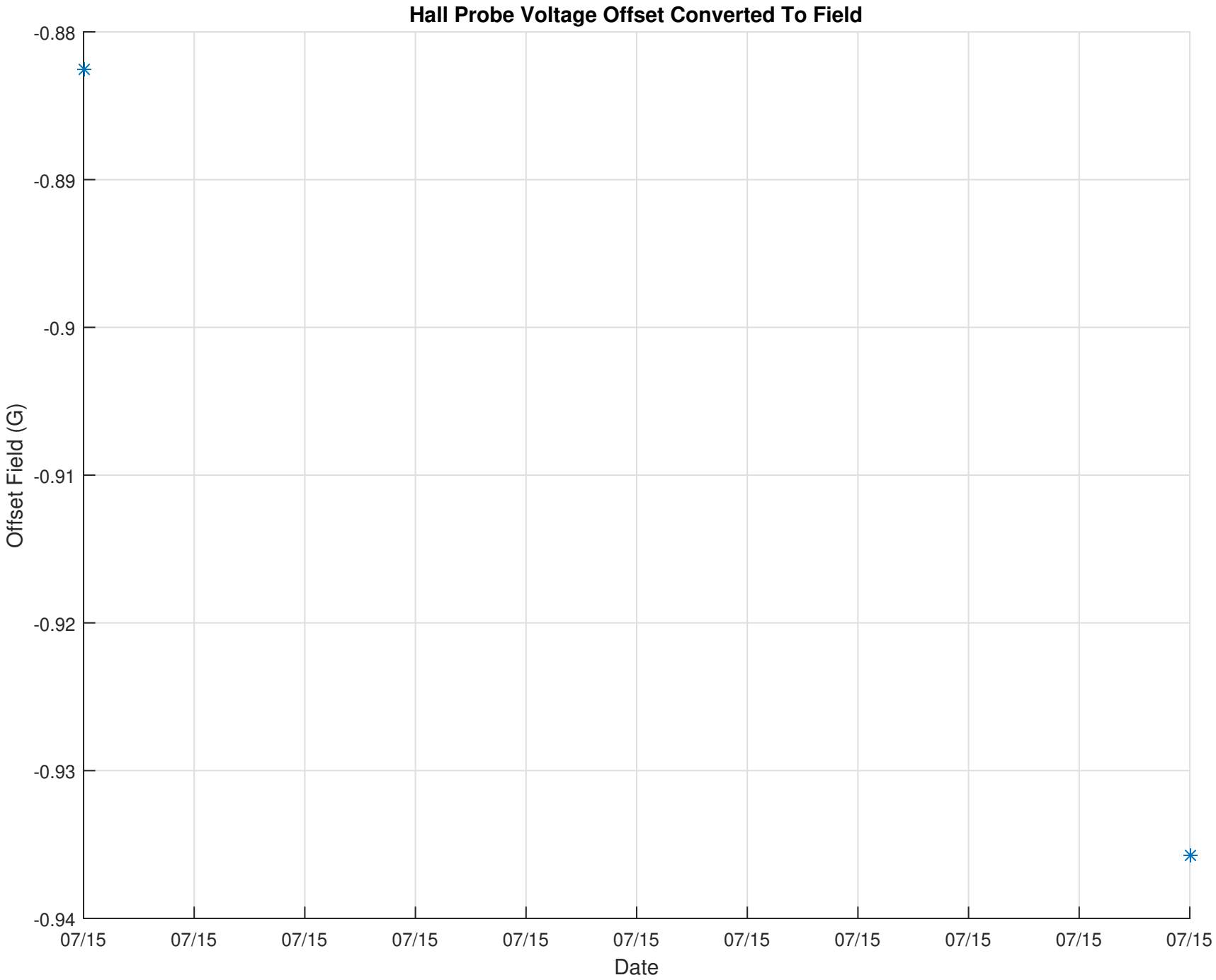

Fitted Field For 5V Output From The Hall Probe vs Time
0.9936
0.9936
0.9936
0.9935
0.9935
0.9935
Bfit (T)
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
Date


Change In Fitted Field For 5V Output From The Hall Probe vs Time
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
Change In Bfit (G)
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
Date


Hall Probe Temperature
07-16-2015
07-15-2015
Thall (C)
Bnmr (T)
19.98
19.96
19.94
19.92
19.9
19.88
19.86
19.84
19.82
19.8
-1.5
-1
-0.5
0
0.5
1
1.5


Polynomial Fit Residuals
10-5
07-16-2015
07-15-2015
Bnmr - Bfit (T)
Offset Corrected Hall Probe Voltage (V)
8
6
4
2
0
-2
-4
-6
-8
-8
-6
-4
-2
0
2
4
6
8


Hall Probe Voltage Offset
10^-4
-4.4
-4.45
-4.5
-4.55
-4.6
-4.65
-4.7
Offset Voltage (V)
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
Date


Hall Probe Voltage Offset Converted To Field
-0.88
-0.89
-0.9
-0.91
-0.92
-0.93
-0.94
Offset Field (G)
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
07/15
Date