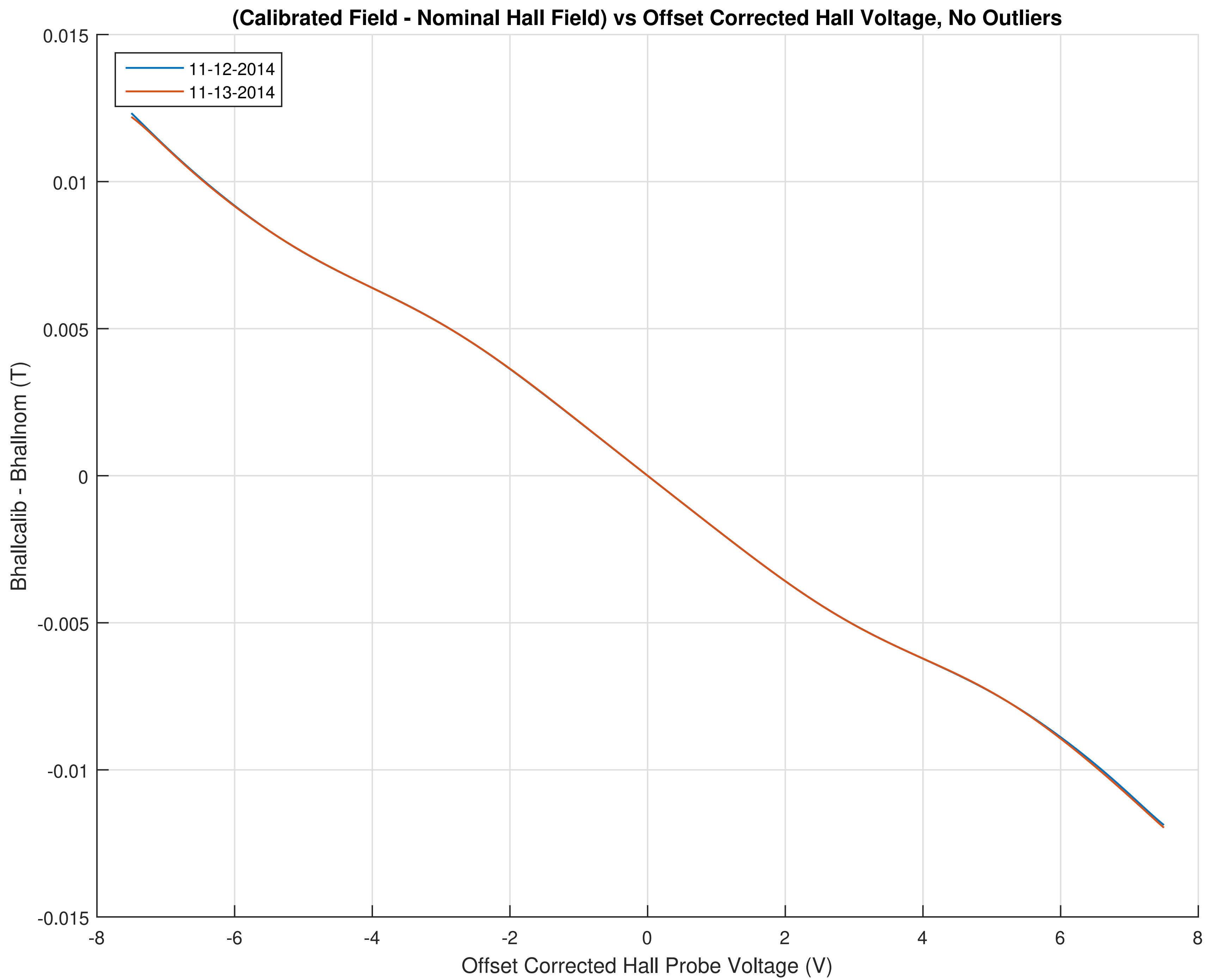
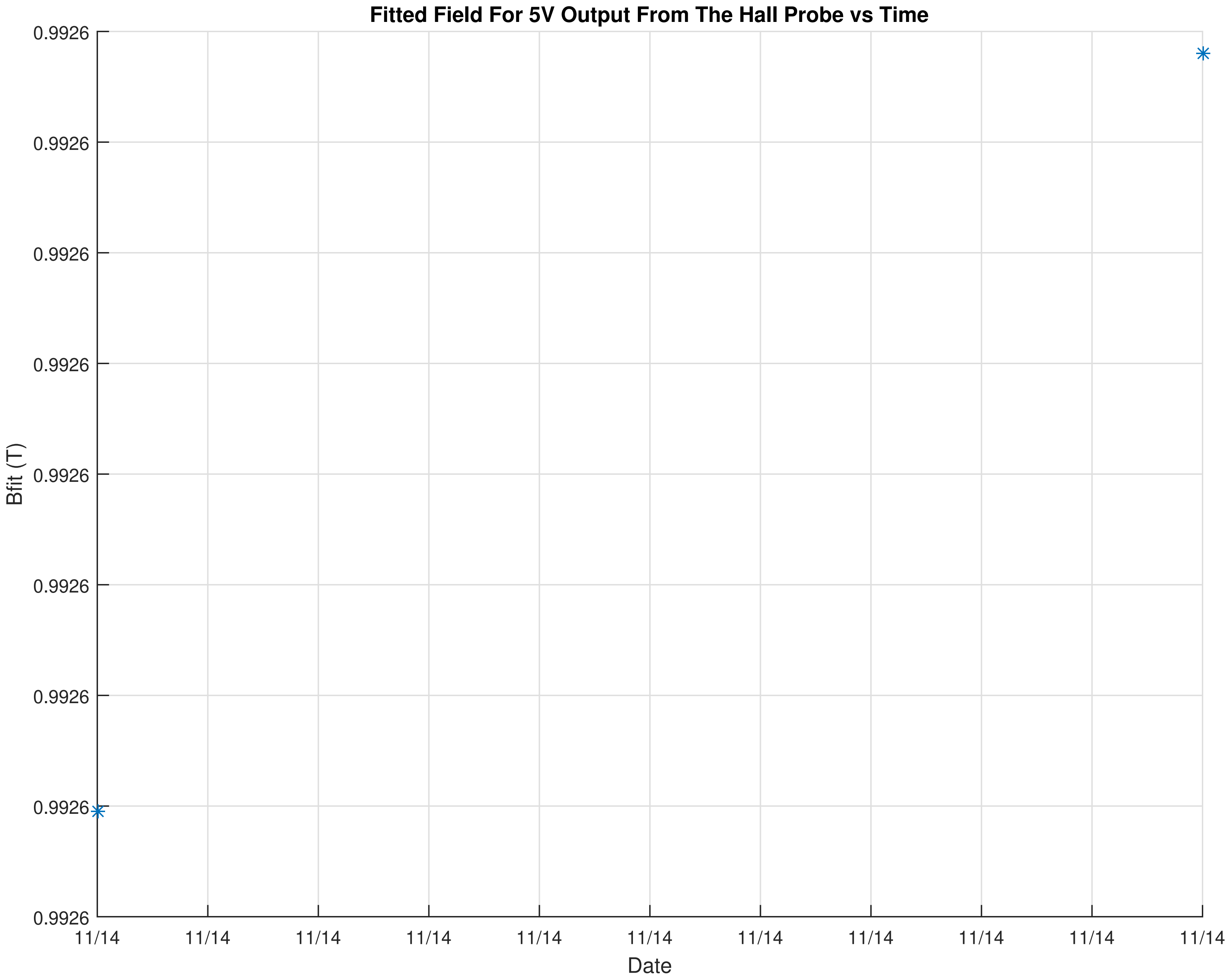
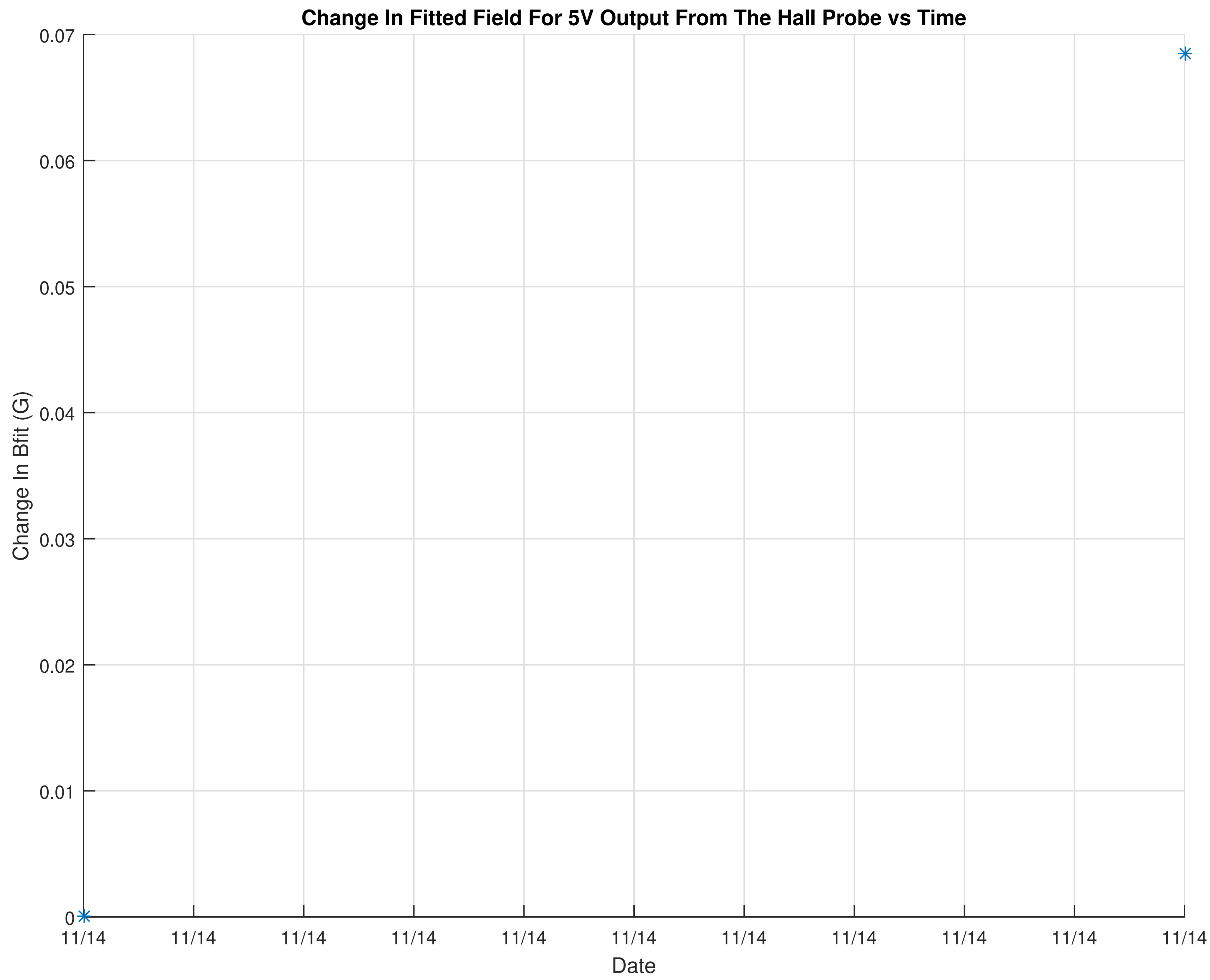
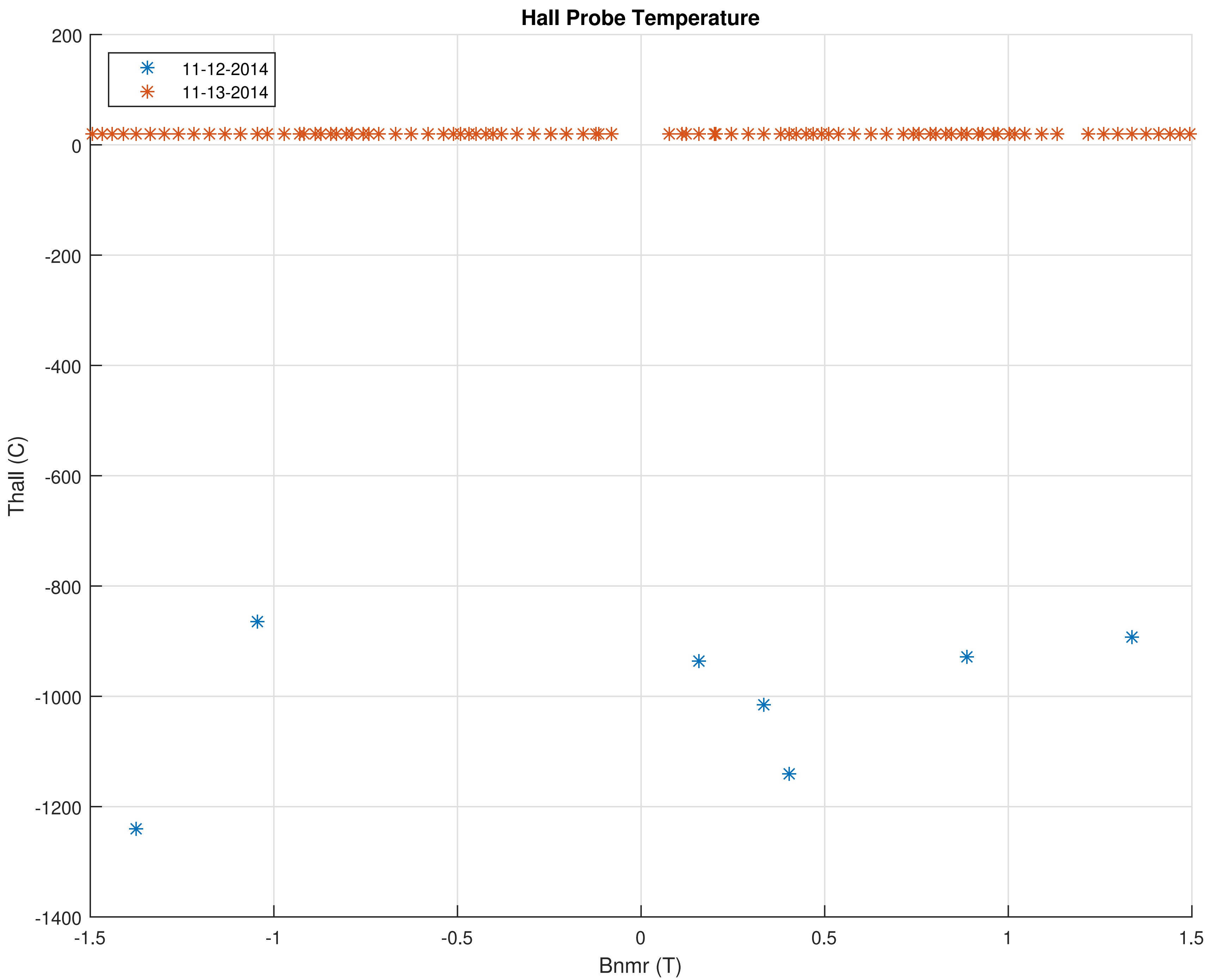
SLAC Magnetic Measurements
Hall Probe Calibration History

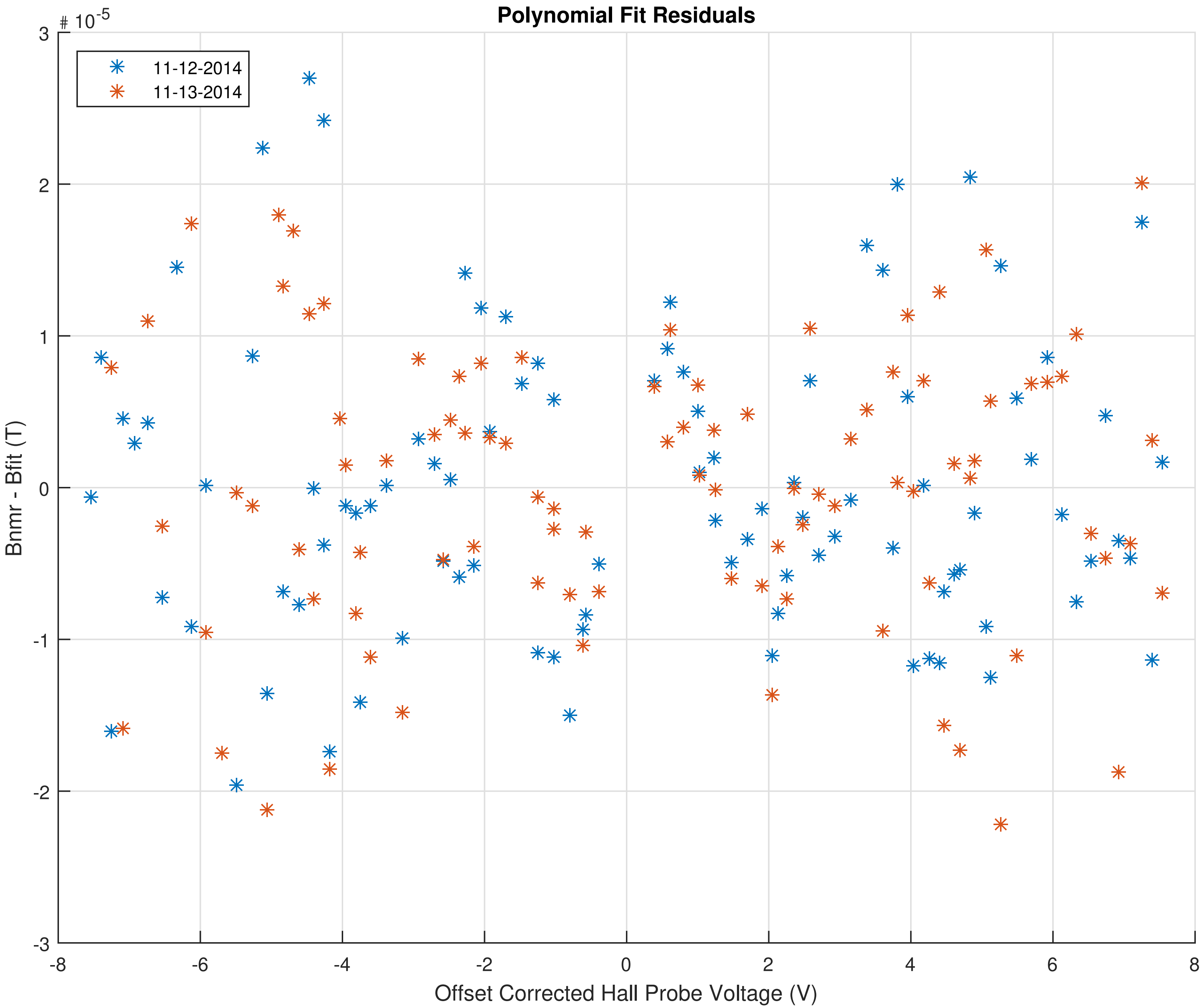
Hall Probe: $SENIS_1$18-14


(Calibrated Field - Nominal Hall Field) vs Offset Corrected Hall Voltage, No Outliers
11-12-2014
11-13-2014
Bhallcalib - Bhallnom (T)
Offset Corrected Hall Probe Voltage (V)
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-8
-6
-4
-2
0
2
4
6
8

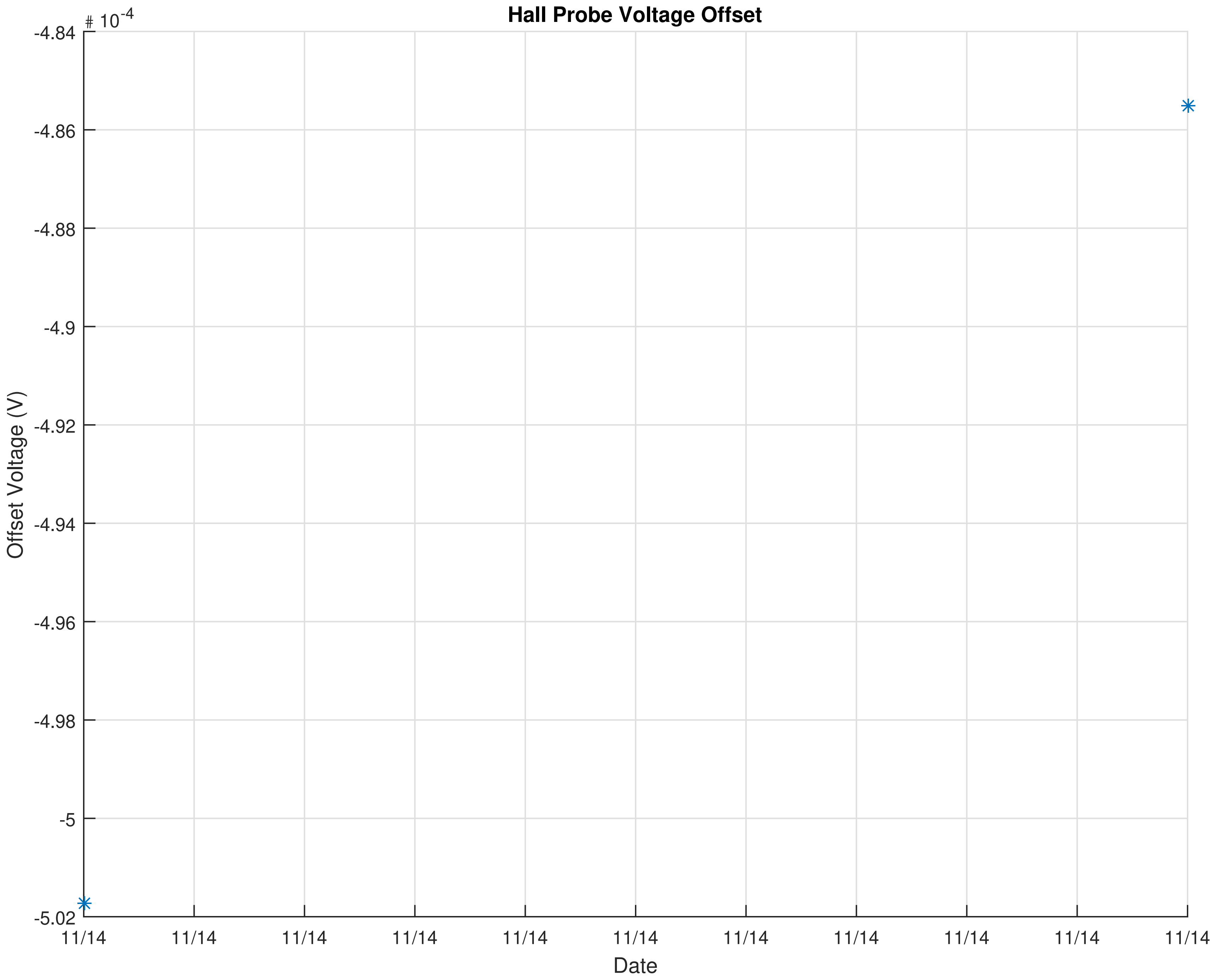

Fitted Field For 5V Output From The Hall Probe vs Time
Bfit (T)
0.9926
0.9926
0.9926
0.9926
0.9926
0.9926
0.9926
0.9926
0.9926
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
Date

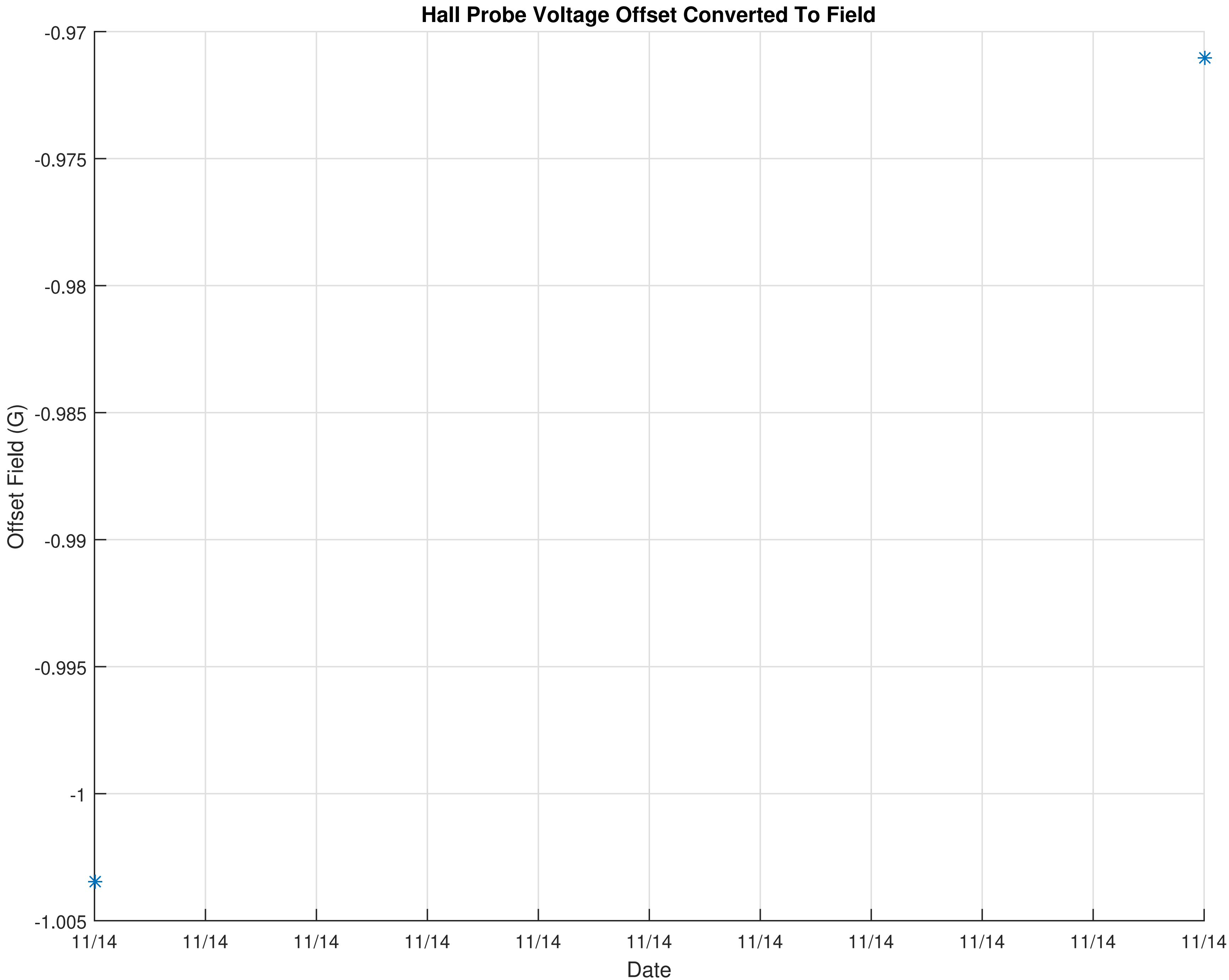

Change In Fitted Field For 5V Output From The Hall Probe vs Time
Change In Bfit (G)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
Date


Hall Probe Temperature
11-12-2014
11-13-2014
Thall (C)
Bnmr (T)
200
0
-200
-400
-600
-800
-1000
-1200
-1400
-1.5
-1
-0.5
0
0.5
1
1.5



Polynomial Fit Residuals
10^-5
11-12-2014
11-13-2014
Bnmr - Bfit (T)
Offset Corrected Hall Probe Voltage (V)
3
2
1
0
-1
-2
-3
-8
-6
-4
-2
0
2
4
6
8


Hall Probe Voltage Offset
10^-4
-4.84
-4.86
-4.88
-4.9
-4.92
-4.94
-4.96
-4.98
-5
-5.02
Offset Voltage (V)
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
Date


Hall Probe Voltage Offset Converted To Field
Offset Field (G)
-0.97
-0.975
-0.98
-0.985
-0.99
-0.995
-1
-1.005
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
11/14
Date