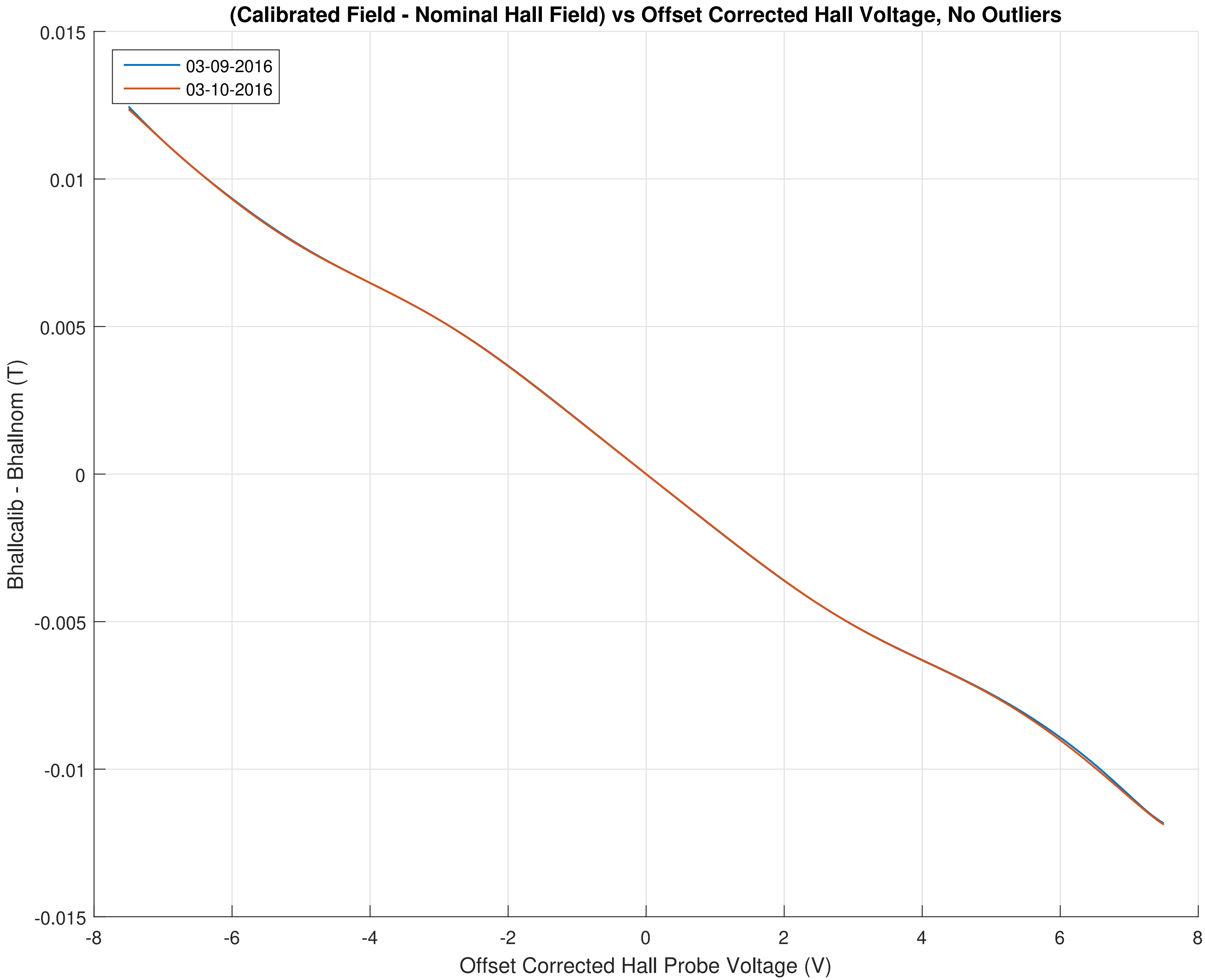
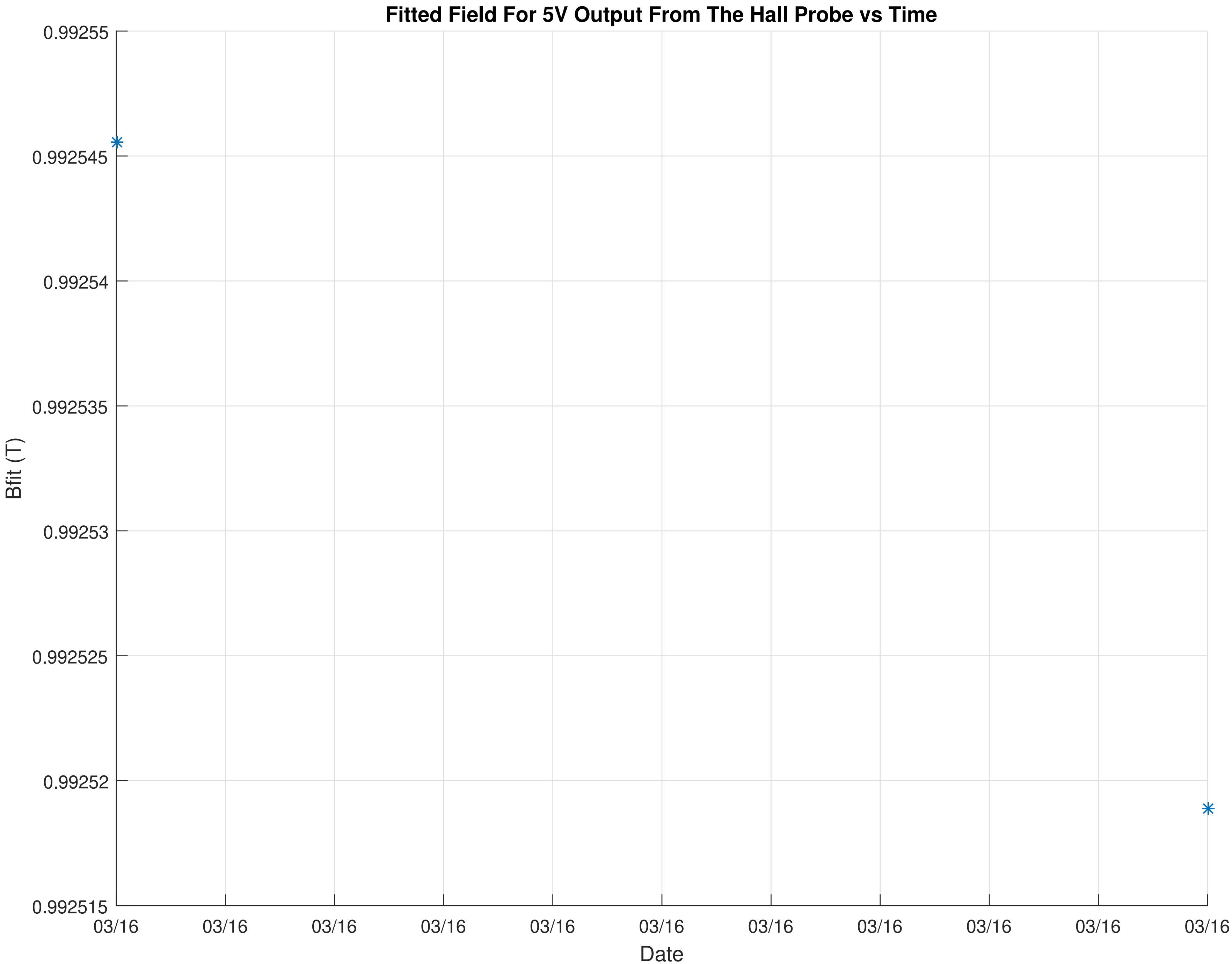
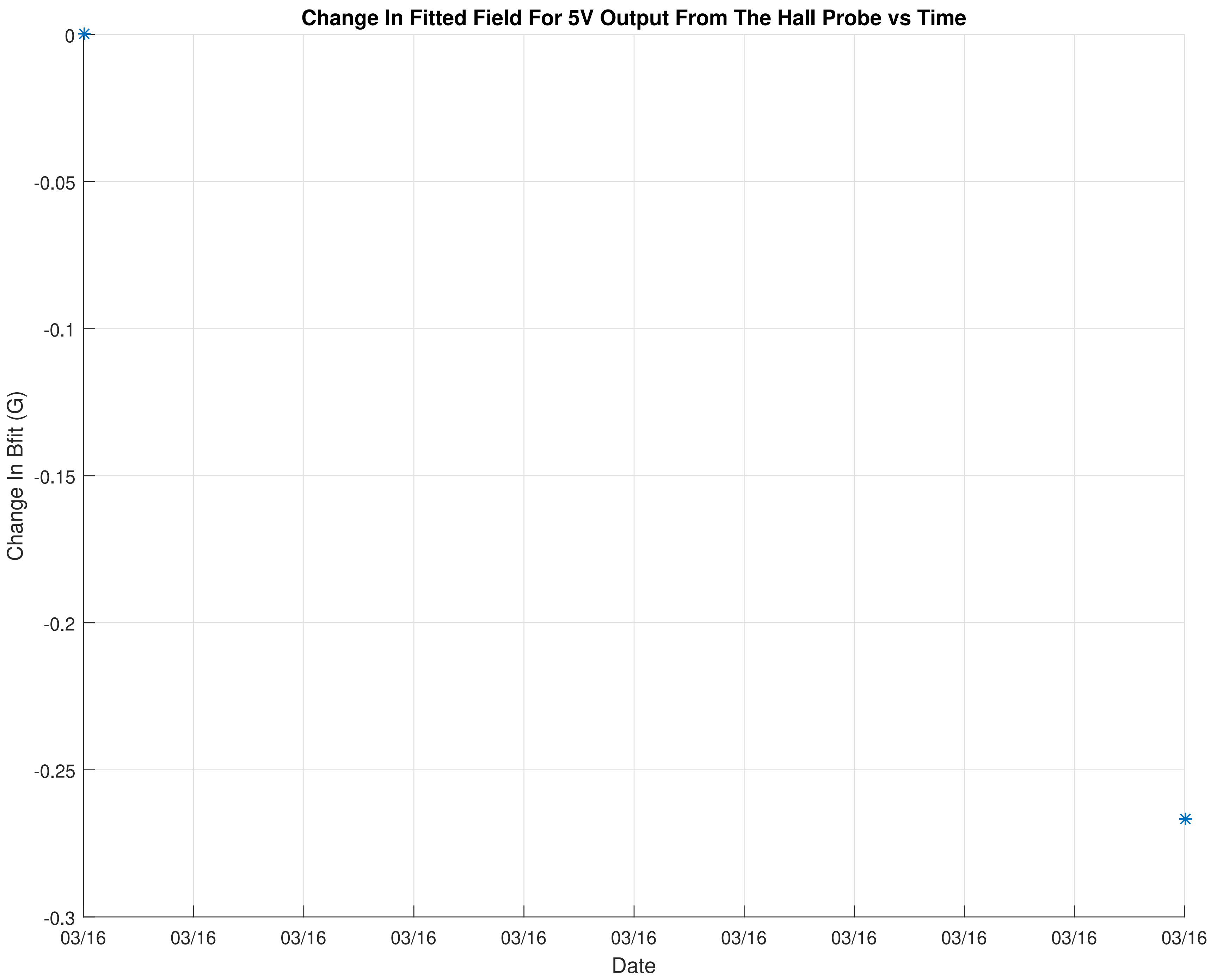
SLAC Magnetic Measurements
Hall Probe Calibration History

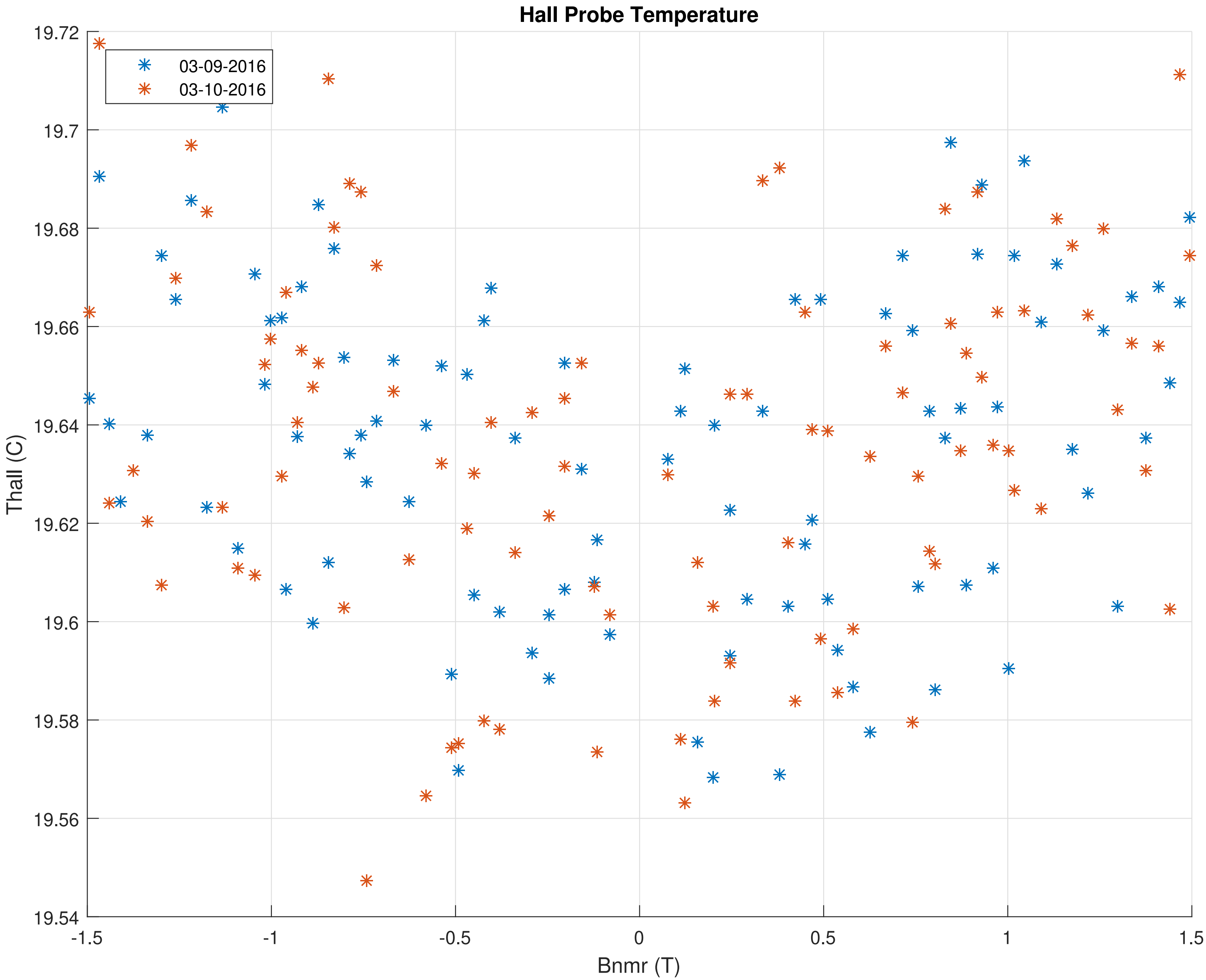
Hall Probe: SENIS 117-14

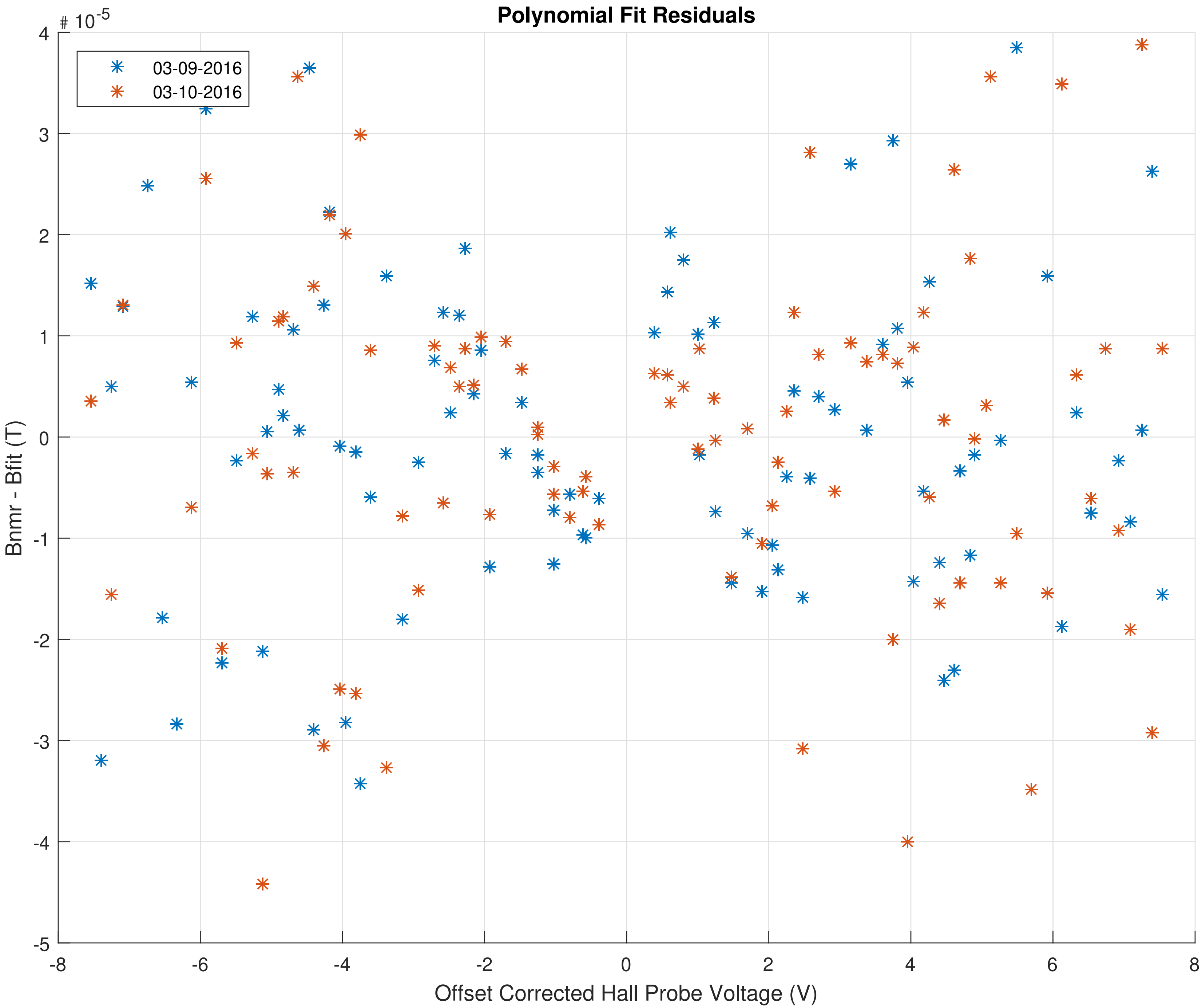

(Calibrated Field - Nominal Hall Field) vs Offset Corrected Hall Voltage, No Outliers
03-09-2016
03-10-2016
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
Bhallcalib - Bhallnom (T)
-8
-6
-4
-2
0
2
4
6
8
Offset Corrected Hall Probe Voltage (V)

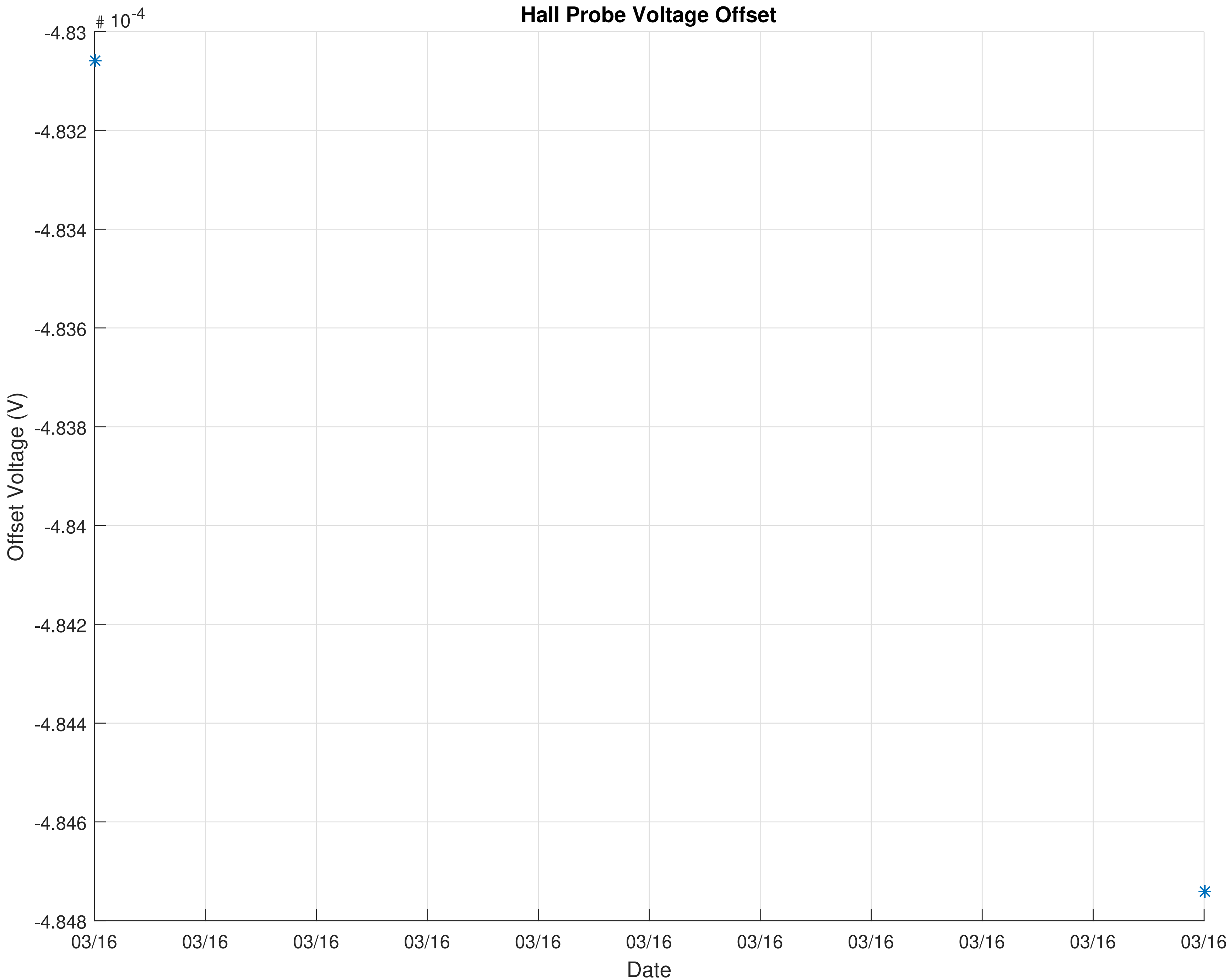

Fitted Field For 5V Output From The Hall Probe vs Time
0.99255
0.992545
0.99254
0.992535
0.99253
0.992525
0.99252
0.992515
Bfit (T)
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
Date



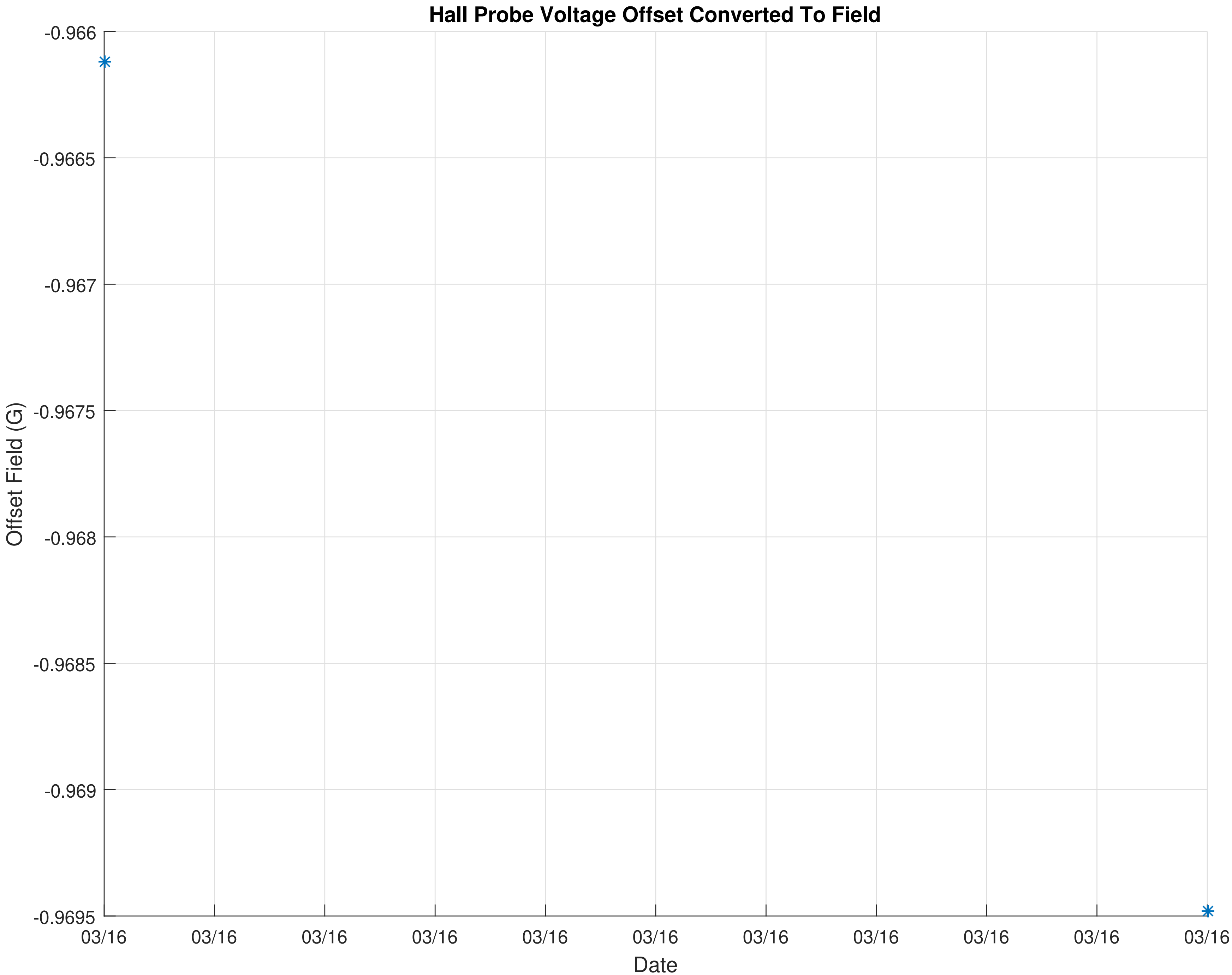
Change In Fitted Field For 5V Output From The Hall Probe vs Time
0
-0.05
-0.1
-0.15
-0.2
-0.25
-0.3
Change In Bfit (G)
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
Date


Hall Probe Temperature
03-09-2016
03-10-2016
Thall (C)
19.72
19.7
19.68
19.66
19.64
19.62
19.6
19.58
19.56
19.54
-1.5
-1
-0.5
0
0.5
1
1.5
Bnmr (T)


Polynomial Fit Residuals
10^-5
03-09-2016
03-10-2016
Bnmr - Bfit (T)
Offset Corrected Hall Probe Voltage (V)
4
3
2
1
0
-1
-2
-3
-4
-5
-8
-6
-4
-2
0
2
4
6
8



Hall Probe Voltage Offset
10^-4
-4.83
-4.832
-4.834
-4.836
-4.838
-4.84
-4.842
-4.844
-4.846
-4.848
Offset Voltage (V)
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
Date



Hall Probe Voltage Offset Converted To Field
-0.966
-0.9665
-0.967
-0.9675
-0.968
-0.9685
-0.969
-0.9695
Offset Field (G)
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
03/16
Date