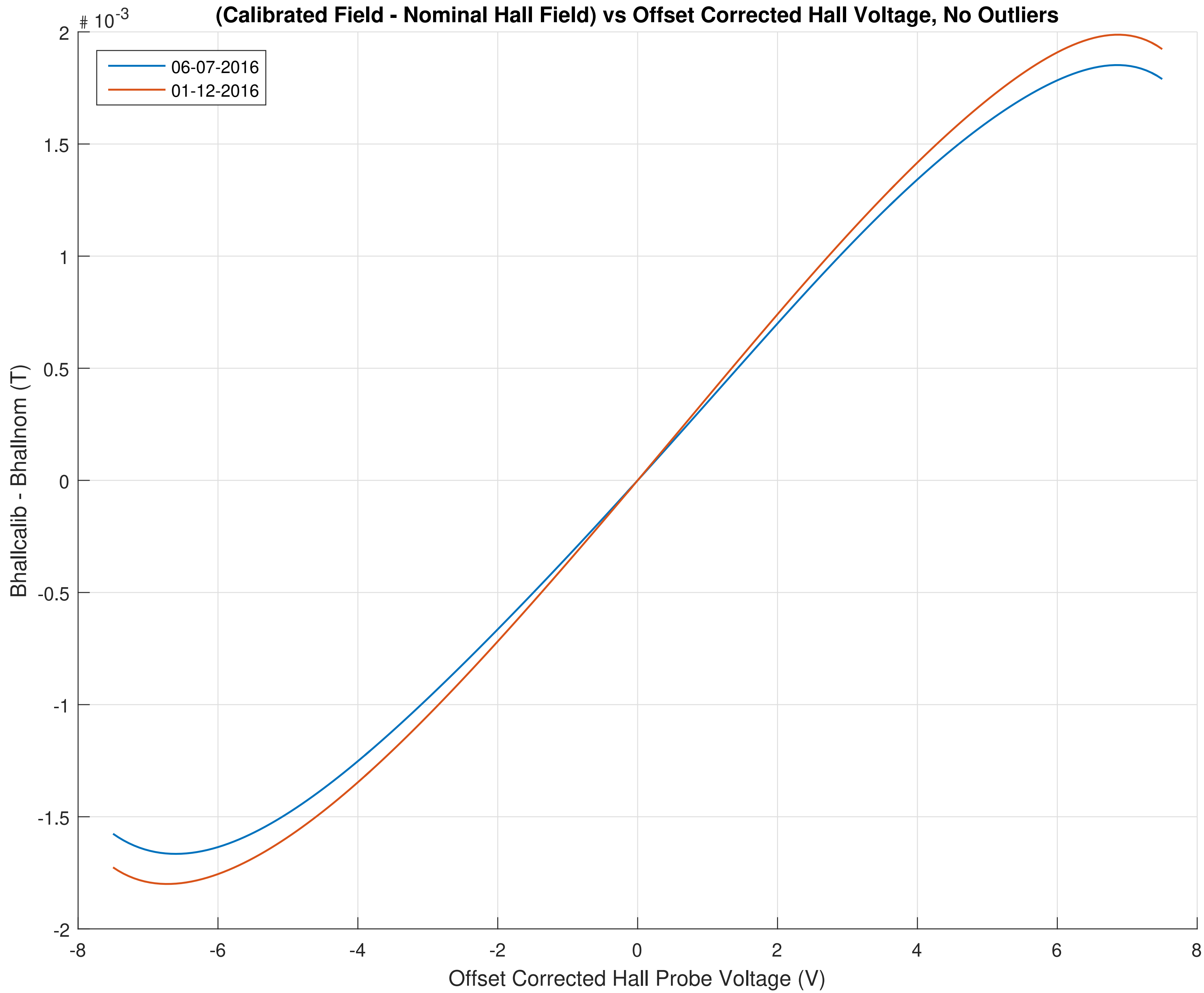
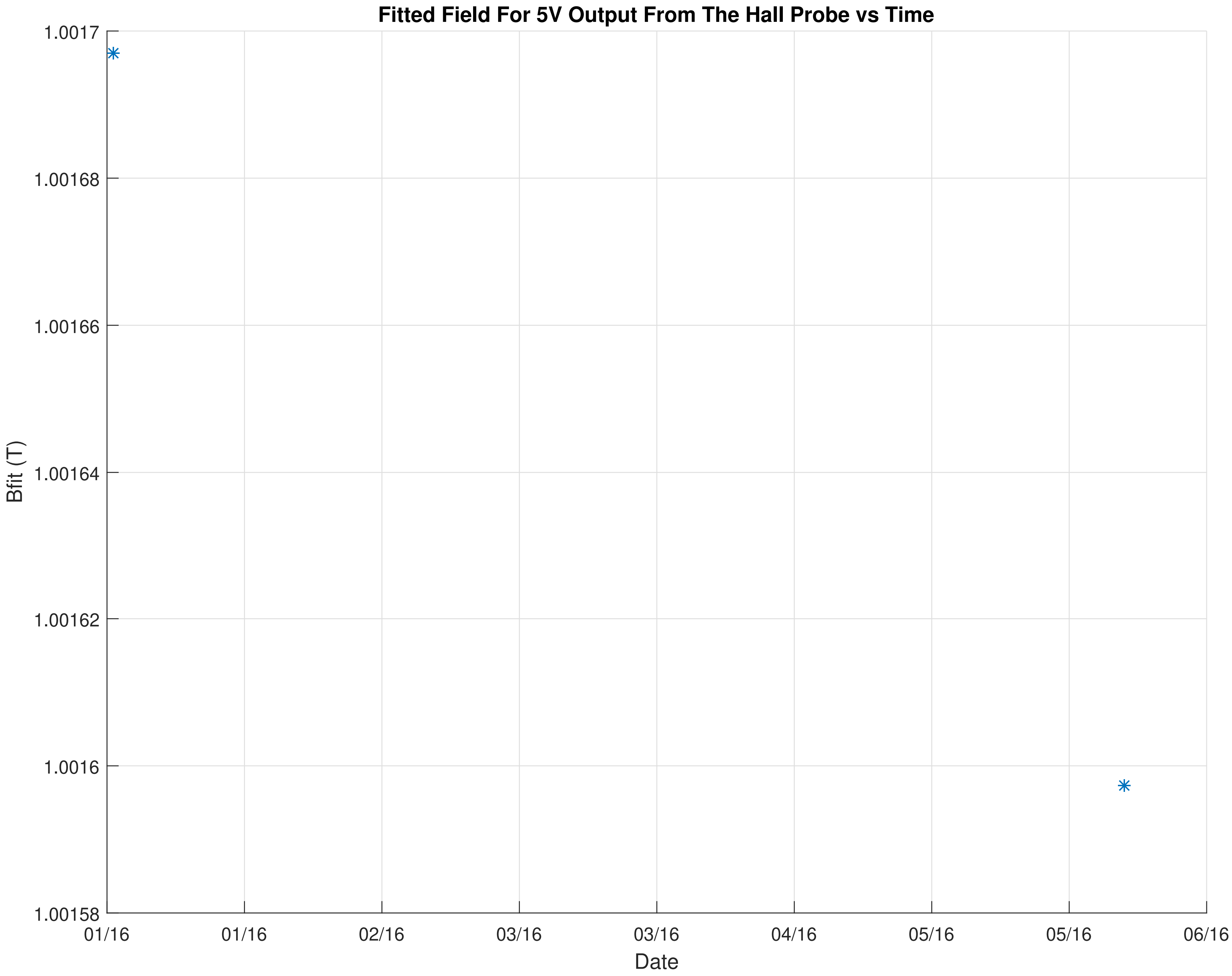
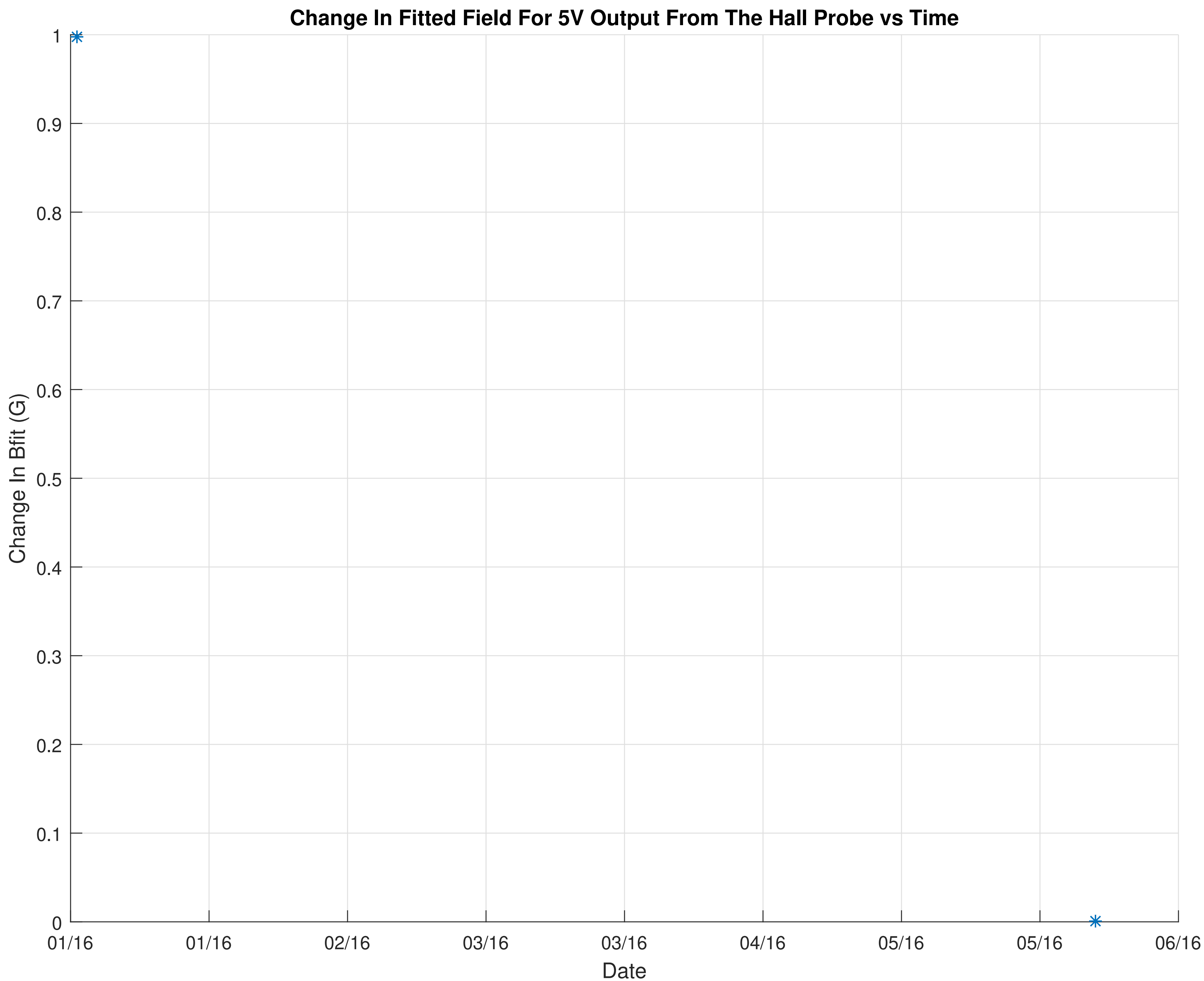
SLAC Magnetic Measurements
Hall Probe Calibration History

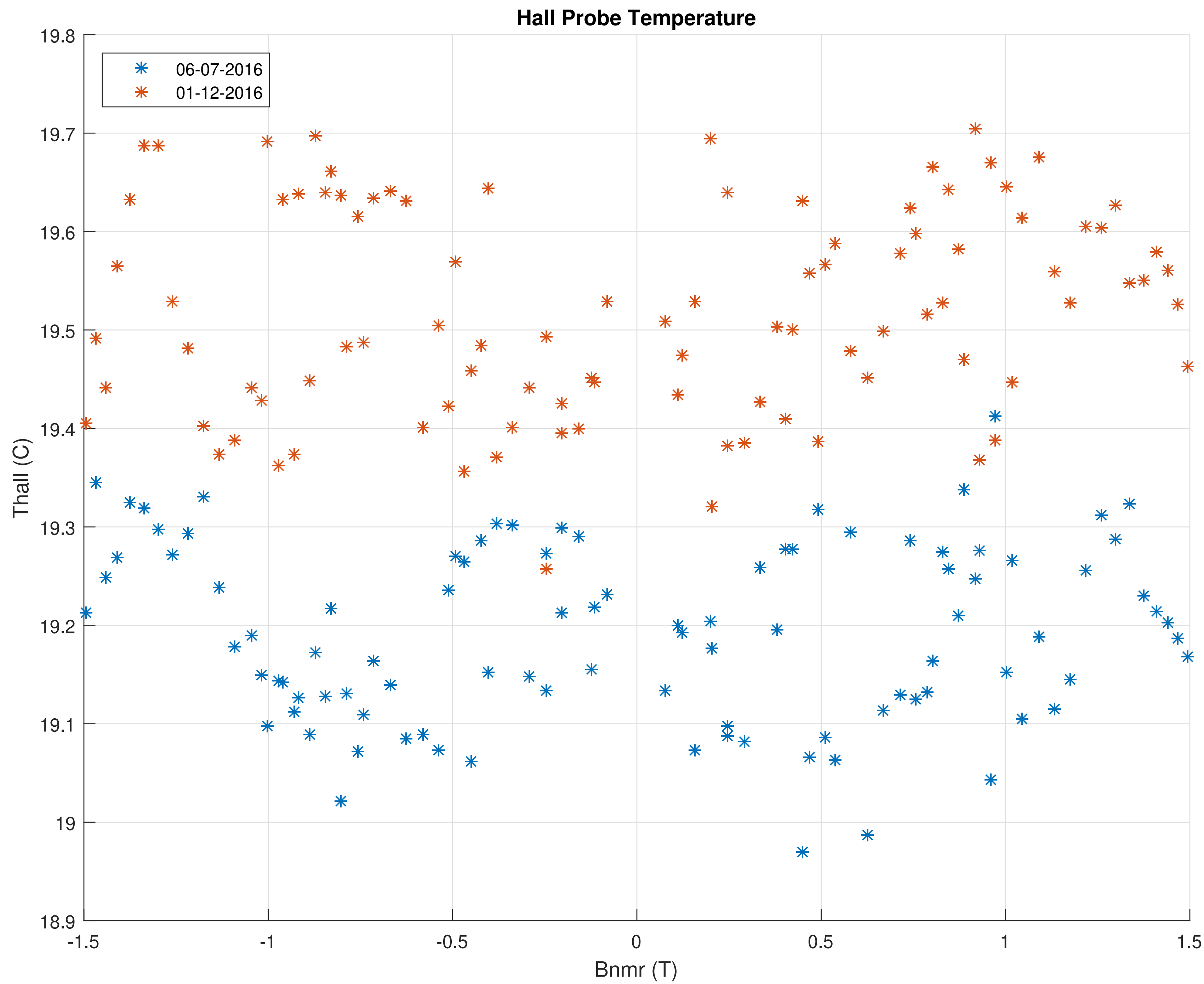
Hall Probe: SENTRON 441


(Calibrated Field - Nominal Hall Field) vs Offset Corrected Hall Voltage, No Outliers
10-3
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
Bhallcalib - Bhallnom (T)
-8
-6
-4
-2
0
2
4
6
8
Offset Corrected Hall Probe Voltage (V)
06-07-2016
01-12-2016

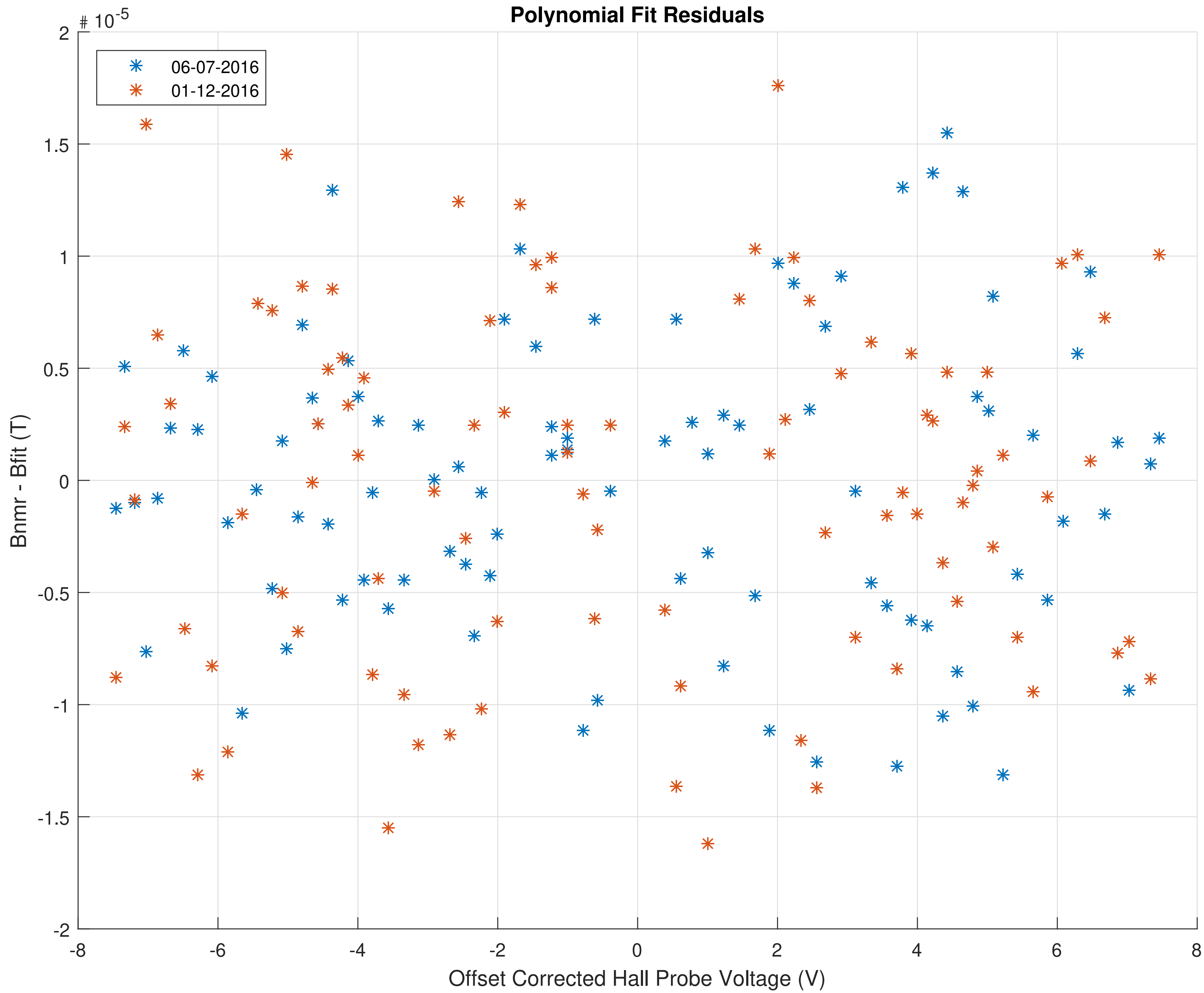


Fitted Field For 5V Output From The Hall Probe vs Time
1.0017
1.00168
1.00166
1.00164
1.00162
1.0016
1.00158
Bfit (T)
01/16
01/16
02/16
03/16
03/16
04/16
05/16
05/16
06/16
Date

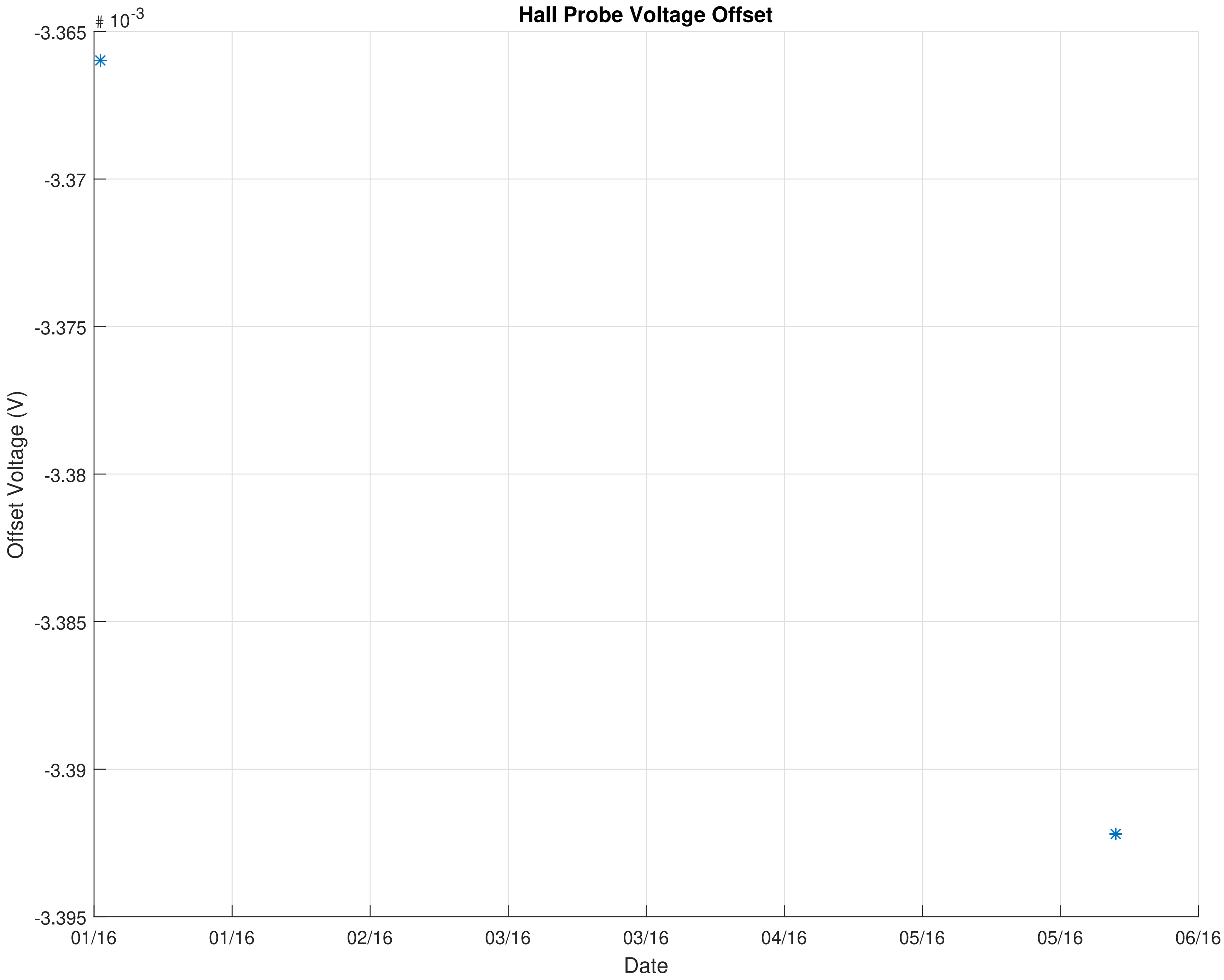

Change In Fitted Field For 5V Output From The Hall Probe vs Time
Change In Bfit (G)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
01/16
01/16
02/16
03/16
03/16
04/16
05/16
05/16
06/16
Date

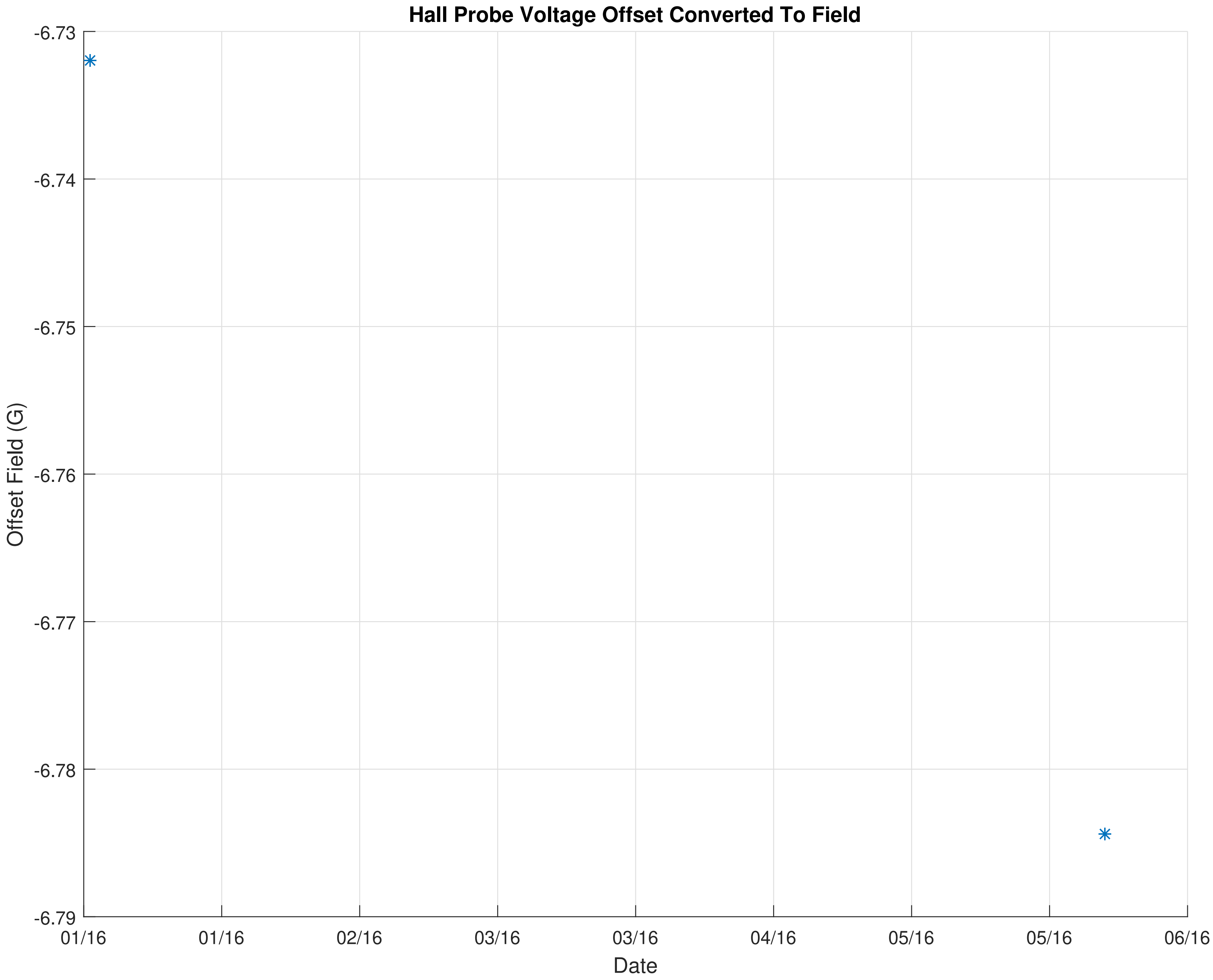


Hall Probe Temperature
06-07-2016
01-12-2016
19.8
19.7
19.6
19.5
19.4
19.3
19.2
19.1
19
18.9
Thall (C)
-1.5
-1
-0.5
0
0.5
1
1.5
Bnmr (T)



Polynomial Fit Residuals
10-5
06-07-2016
01-12-2016
Bnmr - Bfit (T)
Offset Corrected Hall Probe Voltage (V)
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-8
-6
-4
-2
0
2
4
6
8


Hall Probe Voltage Offset
10-3
-3.365
-3.37
-3.375
-3.38
-3.385
-3.39
-3.395
Offset Voltage (V)
01/16
01/16
02/16
03/16
03/16
04/16
05/16
05/16
06/16
Date


Hall Probe Voltage Offset Converted To Field
-6.73
-6.74
-6.75
-6.76
-6.77
-6.78
-6.79
Offset Field (G)
01/16
01/16
02/16
03/16
03/16
04/16
05/16
05/16
06/16
Date