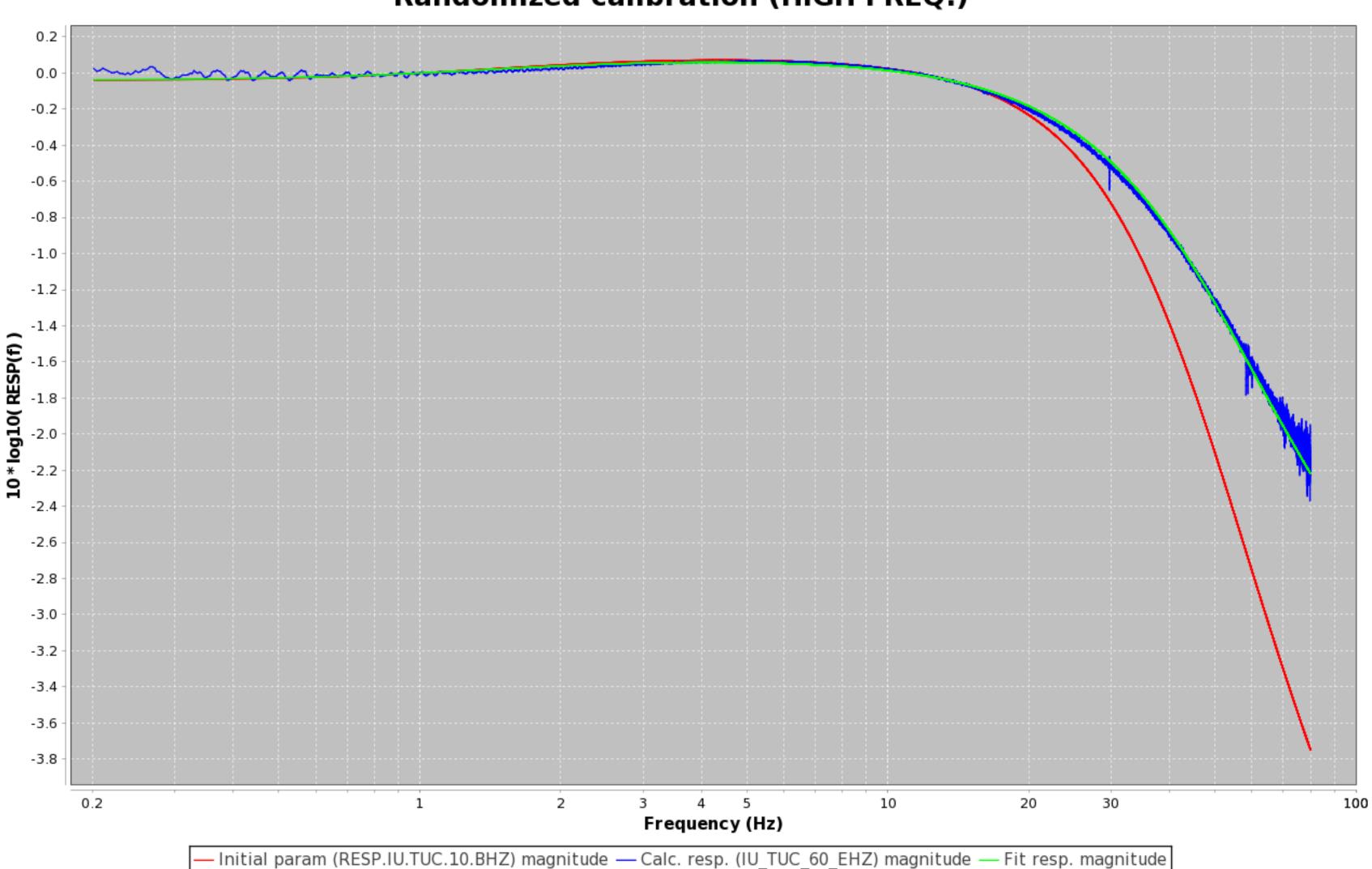
Randomized calibration (HIGH FREQ.)



Initial poles: -9.73894 (0.64516 s) -219.911 + 138.23i; -219.911 - 138.23i (0.02419 s) Fit poles:

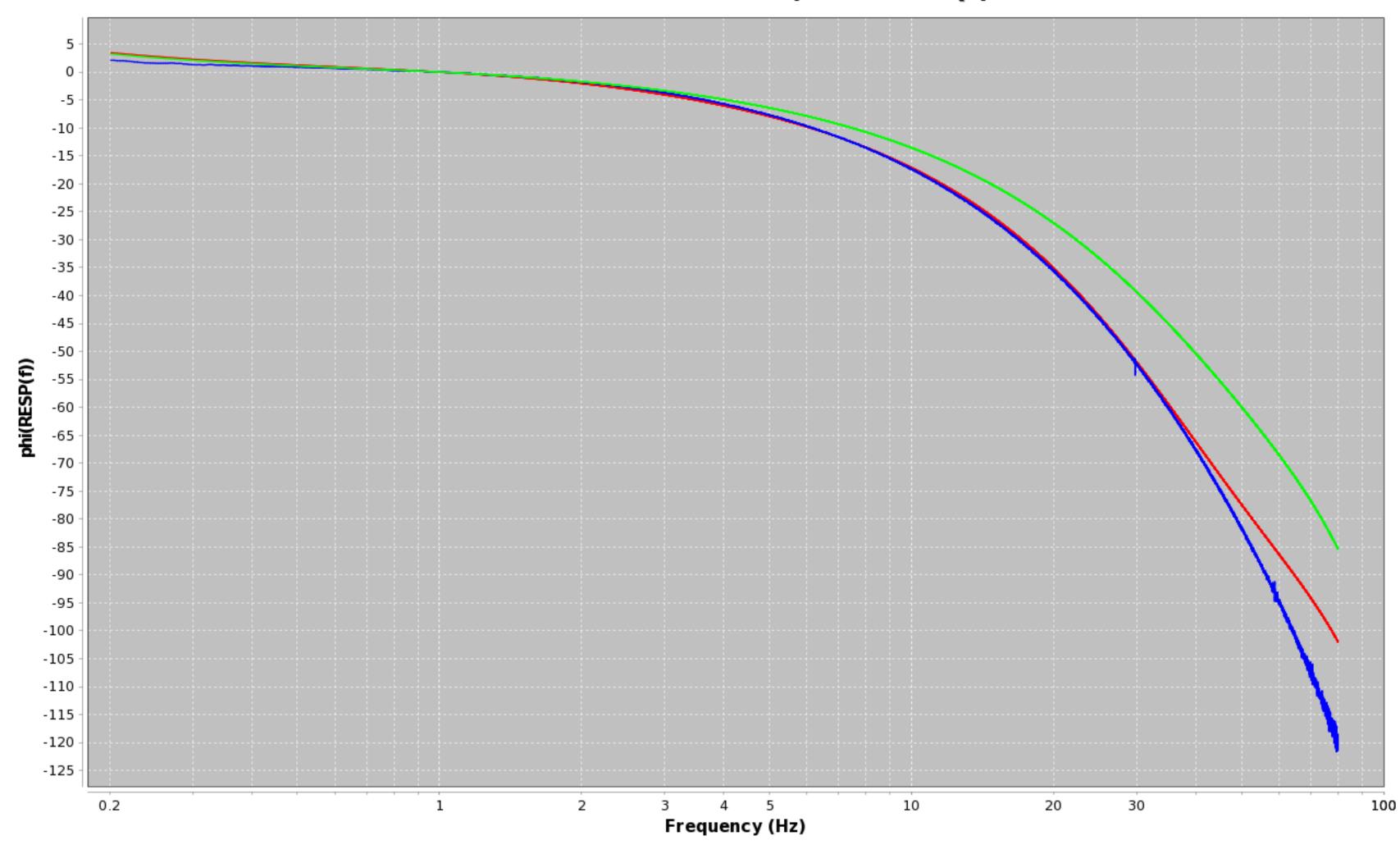
Initial zeros: Fit zeros: -8.99804 (0.69828 s);

Residuals: -9.42478 (0.66667 s); Initial (nom. resp curve): 2014.639157004783 Best fit: 319.5886970501636

-9.258 (0.67868 s) -318.47325 - 121.61612i; -318.47325 + 121.61612i (0.01843 s)

NUMBER OF ITERATIONS: 13

Randomized calibration (HIGH FREQ.)



Initial param (RESP.IU.TUC.10.BHZ) phase — Calc. resp. (IU_TUC_60_EHZ) phase -Fit resp. phase

Initial poles: -9.73894 (0.64516 s) -219.911 + 138.23i; -219.911 - 138.23i (0.02419 s) Fit poles:

Initial zeros: Fit zeros:

Residuals: -9.42478 (0.66667 s); Initial (nom. resp curve): 2014.639157004783 Best fit: 319.5886970501636

-8.99804 (0.69828 s);

-9.258 (0.67868 s) -318.47325 - 121.61612i; -318.47325 + 121.61612i (0.01843 s)

NUMBER OF ITERATIONS: 13

Randomized calibration 6 5 4 3 2 1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9 Amplitude error (percentage) -10 -12 -13 -14 -15 -16 -17 -18 -19 -20 -21 -21 -22 -23 -24 -25 -26 -27 -28 -29 -30 -31 -32 -33 -34 -35 100 0.2 3 4 5 Frequency (Hz) 20 2 3 10 30 1 Percent error of init. amplitude — Percent error of fit amplitude Randomized calibration 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 Phase error (degrees) 19 18 16 15 14 13 12 11 10 9 8 7 6 5 2 1 0 -1 --2 -Frequency (Hz) 2 10 20 30 100 0.2 1

Diff. with init phase — Diff with fit phase

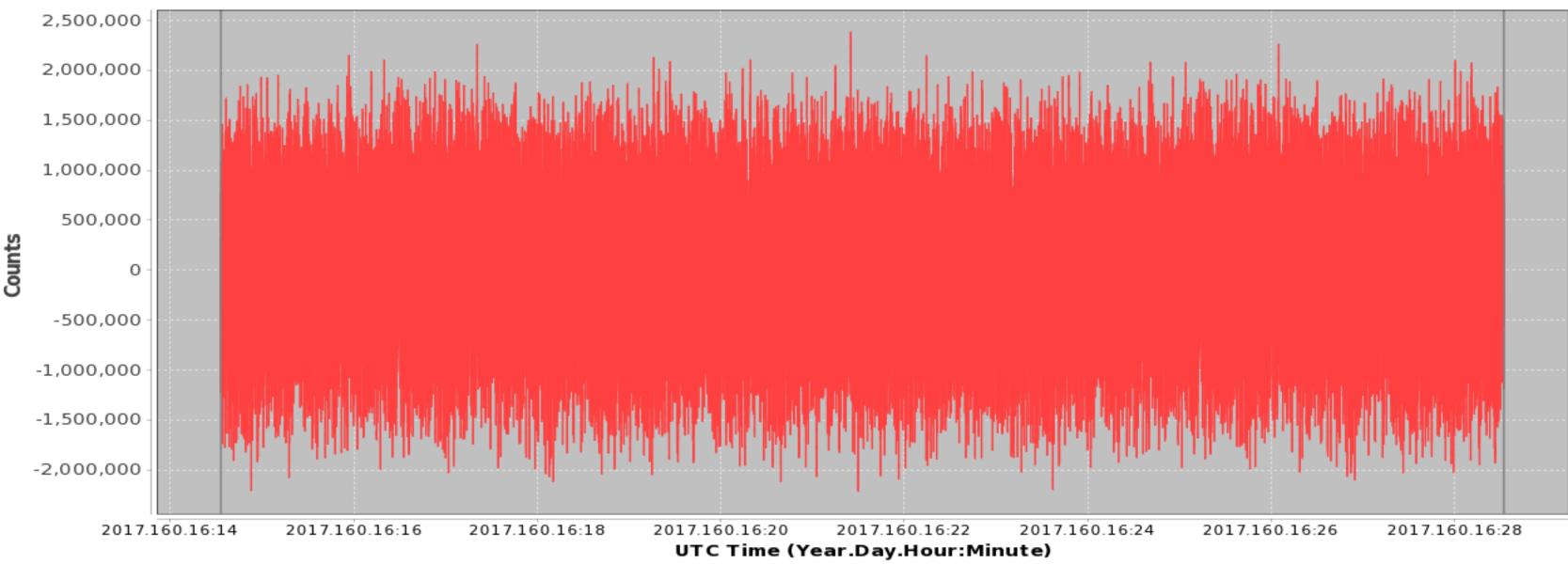
```
Initial poles:
-9.73894 (0.64516 s)
-219.911 + 138.23i; -219.911 - 138.23i (0.02419 s)
Fit poles:
-9.258 (0.67868 s)
-318.47325 - 121.61612i; -318.47325 + 121.61612i (0.01843 s)
Initial zeros:
-9.42478 (0.66667 s);
Fit zeros:
-8.99804 (0.69828 s);
Residuals:
Initial (nom. resp curve): 2014.639157004783
Best fit: 319.5886970501636
Iteration count from solver: 13
Input filenames, with SEED and RESP files paired as appropriate:
IU_TUC_CB_BC6
IU_TUC_60_EHZ
RESP.IU.TUC.10.BHZ
Residuals weighting:
    Amplitude: 14261.774968711406
    Phase: 0.46380072072354617
Time of report generation:
2017.268.21:17:12
Data start time:
2017.160.16:14:33
Data end time:
2017.160.16:28:32
```

POLE VARIABLES, AS CSV:

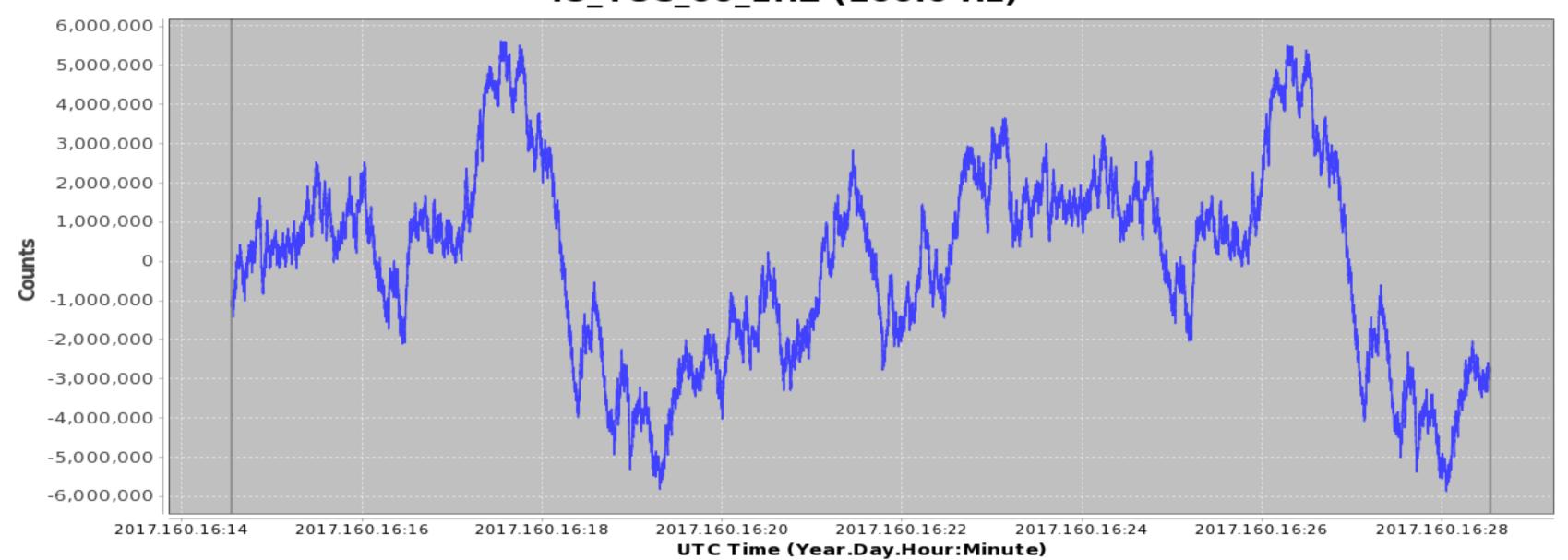
Init	Fit	Diff	Mean	PctDiff		
-9.7389	-9.258	-0.4809	-9.4985	+5.1949		
+0	+0	+0	+0	+0		
-219.911	-318.4733	3+98.5623	-269.1921	L-30.9484		
+138.23	+121.6161	1+16.6139	+129.9231	L+13.6609		
ZERO VARIABLES, AS CSV:						

Init	Fit	Diff	Mean	PctDiff
-9.4248	-8.998	-0.4267	-9.2114	+4.7425
+0	+0	+0	+0	+0

IU_TUC_CB_BC6 (200.0 Hz)



IU_TUC_60_EHZ (200.0 Hz)



```
Response name: RESP.IU.TUC.10.BHZ
```

Gain stage values:

- 0: 2,447,790,000
- 1: 1,459
- 2: 1,677,720
- 3: 1

Normalization: 45.5532

Normalization frequency (Hz): 0.02

Transfer function is LAPLACIAN

Response input units: velocity (m/s)

Response zeros:

- 0:0
- 1: 0
- 2: -9.4248
- 3: -628.319
- 4: -565.487 + 979.452i
- 5: -565.487 979.452i

Response poles:

- 0: -0.037 + 0.037i
- 1: -0.037 0.037i
- 2: -9.7389
- 3: -219.911 + 138.23i
- 4: -219.911 138.23i
- 5: -219.911 + 684.867i
- 6: -219.911 684.867i