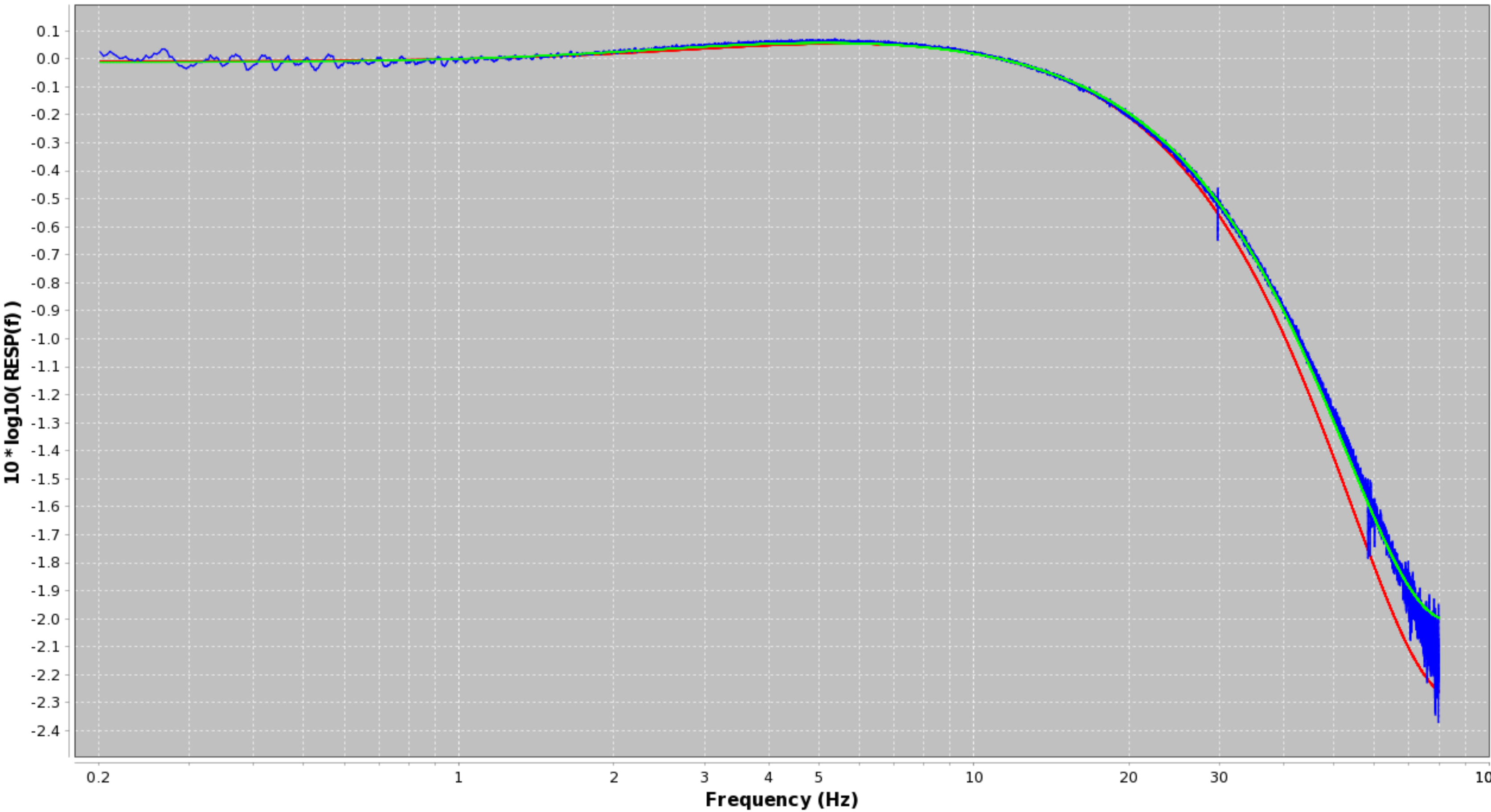


Randomized calibration (HIGH FREQ.)

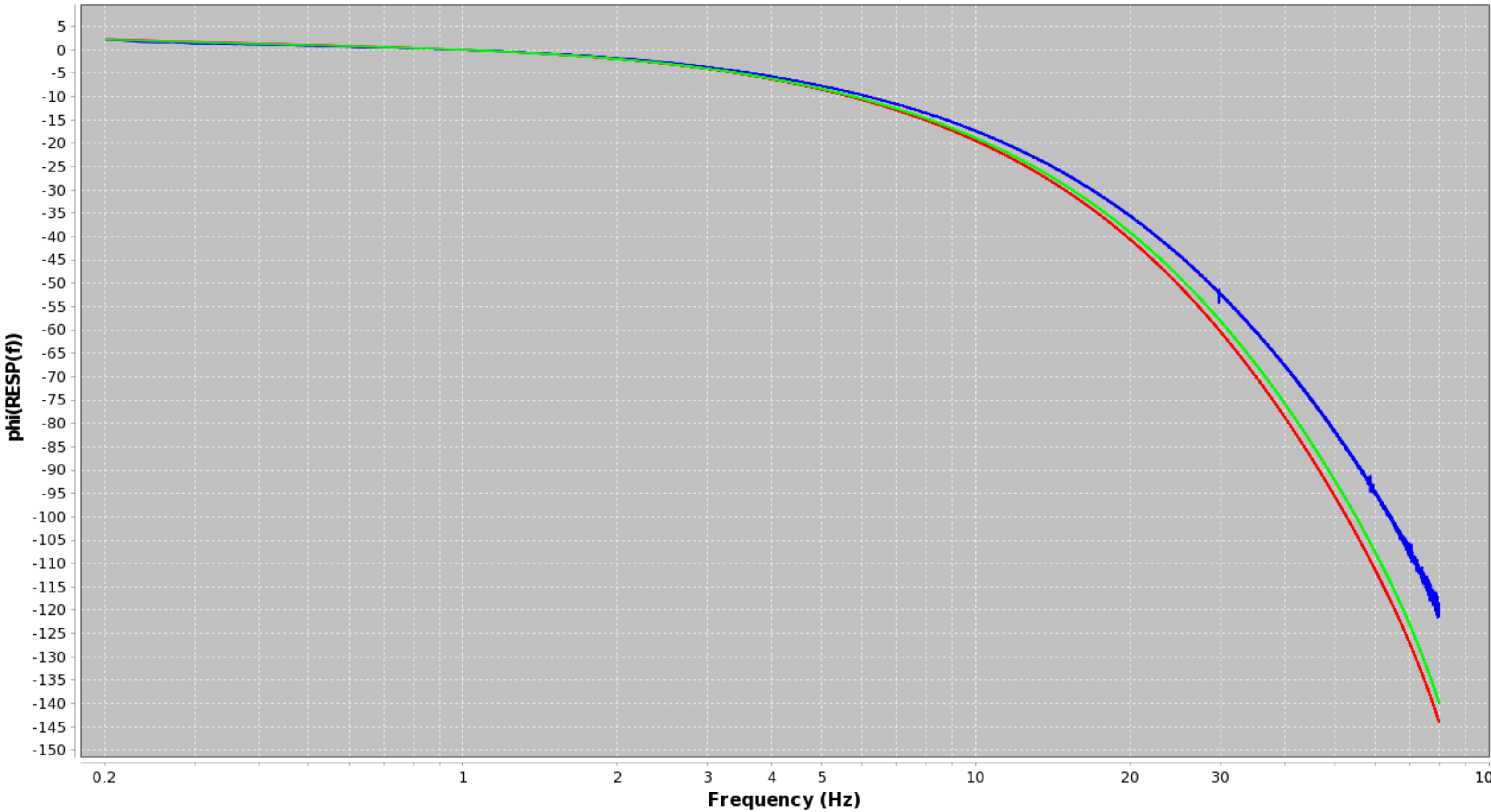


Initial param (STS-6\_4repeats) magnitude    Calc. resp. (IU\_TUC\_60\_EHZ) magnitude    Fit resp. magnitude

<b>Initial poles:</b> -22.3068 (0.28167 s); -22.3068 (0.28167 s) -351.858 (0.01786 s); -501.105 (0.01254 s) -501.105 (0.01254 s); -501.105 (0.01254 s) -501.105 (0.01254 s)	<b>Initial zeros:</b> -21.9911 (0.28571 s) -21.9911 (0.28571 s) -351.858 (0.01786 s); <b>Fit zeros:</b> -17.14773 (0.36641 s) -17.14773 (0.36641 s) -354.71719 (0.01771 s);	<b>Residuals:</b> Initial (nom. resp curve): 371.1838842108851 Best fit: 179.18045902758647
<b>Fit poles:</b> -17.37799 (0.36156 s); -17.37799 (0.36156 s) -339.75767 (0.01849 s); -525.38502 (0.01196 s) -525.38502 (0.01196 s); -525.38502 (0.01196 s) -525.38502 (0.01196 s)		

NUMBER OF ITERATIONS: 44

Randomized calibration (HIGH FREQ.)

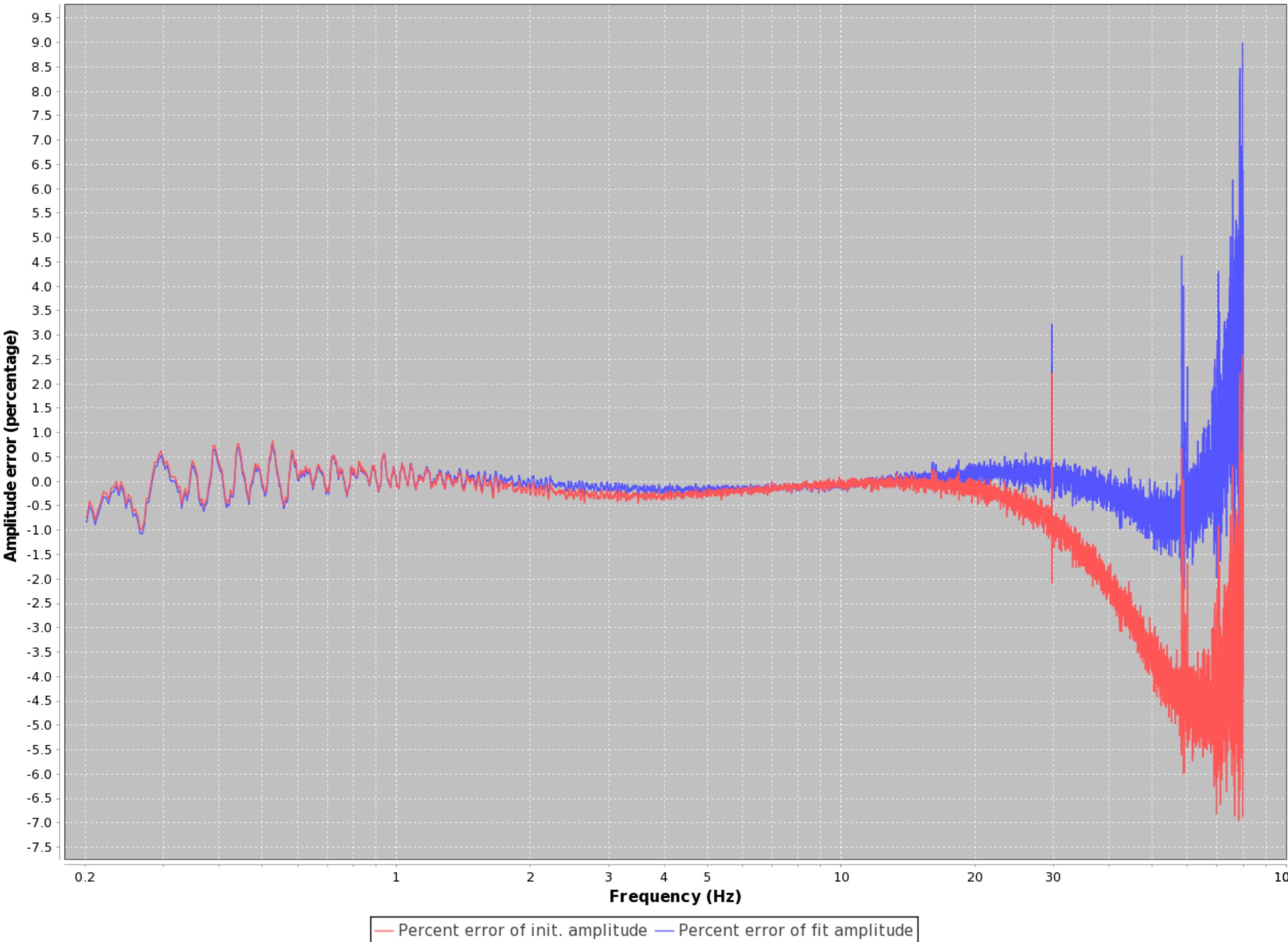


Initial param (STS-6\_4repeats) phase    Calc. resp. (IU\_TUC\_60\_EHZ) phase    Fit resp. phase

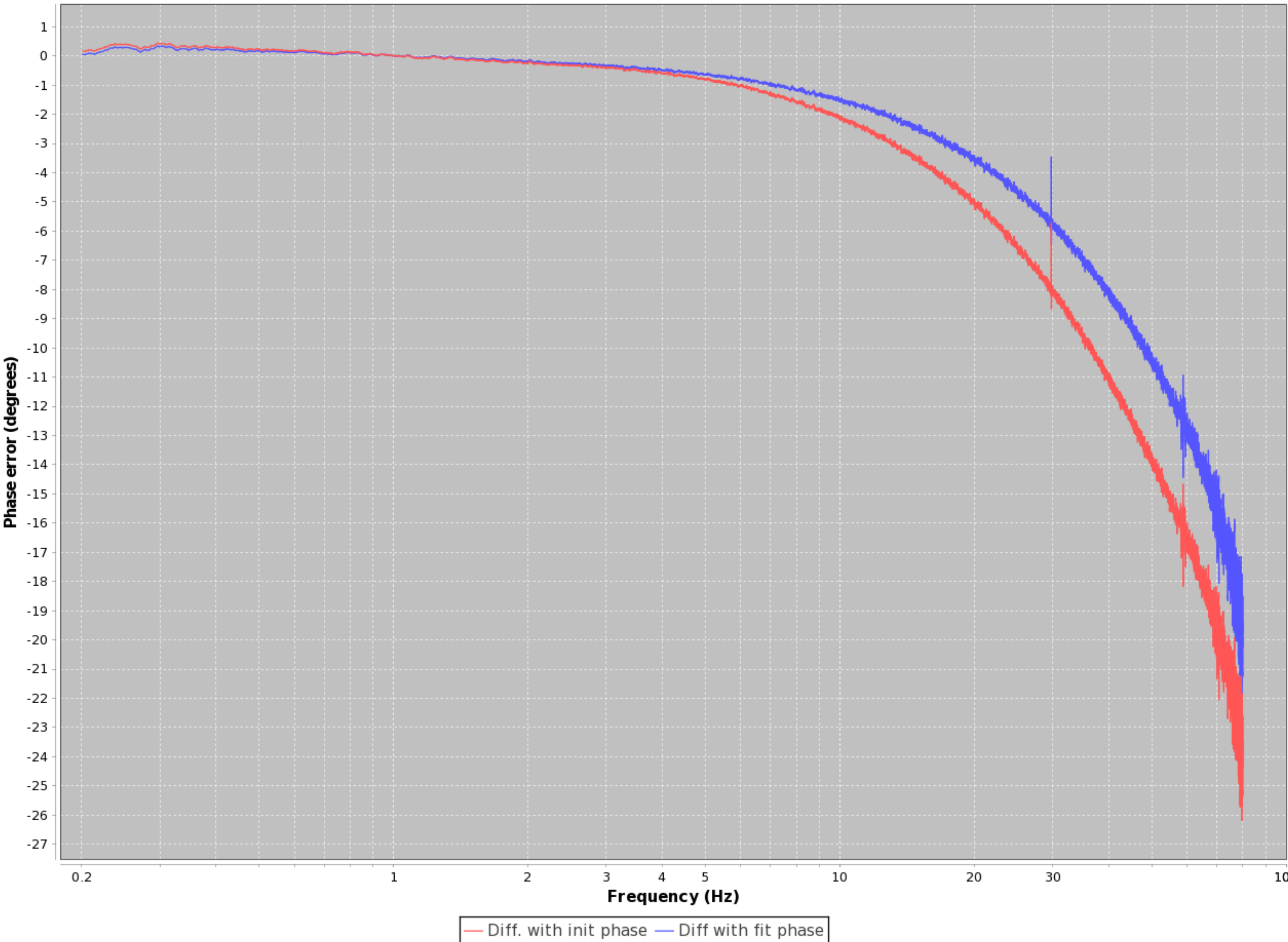
<b>Initial poles:</b> -22.3068 (0.28167 s); -22.3068 (0.28167 s) -351.858 (0.01786 s); -501.105 (0.01254 s) -501.105 (0.01254 s); -501.105 (0.01254 s) -501.105 (0.01254 s)	<b>Initial zeros:</b> -21.9911 (0.28571 s) -21.9911 (0.28571 s) -351.858 (0.01786 s); <b>Fit zeros:</b> -17.14773 (0.36641 s) -17.14773 (0.36641 s) -354.71719 (0.01771 s);	<b>Residuals:</b> Initial (nom. resp curve): 371.1838842108851 Best fit: 179.18045902758647
<b>Fit poles:</b> -17.37799 (0.36156 s); -17.37799 (0.36156 s) -339.75767 (0.01849 s); -525.38502 (0.01196 s) -525.38502 (0.01196 s); -525.38502 (0.01196 s) -525.38502 (0.01196 s)		

NUMBER OF ITERATIONS: 44

Randomized calibration



Randomized calibration



Initial poles:

-22.3068 (0.28167 s);    -22.3068 (0.28167 s)  
-351.858 (0.01786 s);    -501.105 (0.01254 s)  
-501.105 (0.01254 s);    -501.105 (0.01254 s)  
-501.105 (0.01254 s)

Fit poles:

-17.37799 (0.36156 s);    -17.37799 (0.36156 s)  
-339.75767 (0.01849 s);    -525.38502 (0.01196 s)  
-525.38502 (0.01196 s);    -525.38502 (0.01196 s)  
-525.38502 (0.01196 s)

Initial zeros:

-21.9911 (0.28571 s)  
-21.9911 (0.28571 s)  
-351.858 (0.01786 s);

Fit zeros:

-17.14773 (0.36641 s)  
-17.14773 (0.36641 s)  
-354.71719 (0.01771 s);

Residuals:

Initial (nom. resp curve): 371.1838842108851

Best fit: 179.18045902758647

Iteration count from solver: 44

Input filenames, with SEED and RESP files paired as appropriate:

IU\_TUC\_CB\_BC6

IU\_TUC\_60\_EHZ

STS-6\_4repeats

Residuals weighting:

Amplitude: 14261.774968711406

Phase: 0.46380072072354617

Time of report generation:

2017.268.19:10:21

Data start time:

2017.160.16:14:33

Data end time:

2017.160.16:28:32



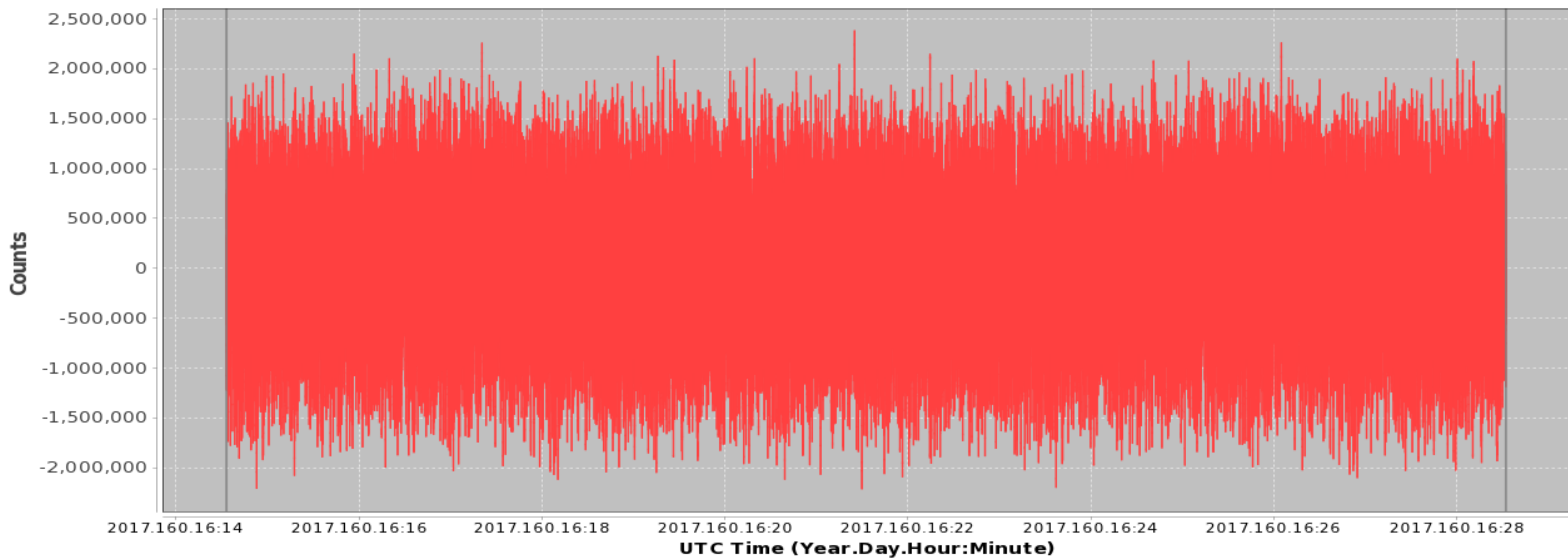
POLE VARIABLES, AS CSV:

Init	Fit	Diff	Mean	PctDiff
-22.3068	-17.378	-4.9288	-19.8424	+28.3624
+0	+0	+0	+0	+0
-22.3068	-17.378	-4.9288	-19.8424	+28.3624
+0	+0	+0	+0	+0
-351.858	-339.7577	-12.1003	-345.8078	+3.5615
+0	+0	+0	+0	+0
-501.105	-525.385	+24.28	-513.245	-4.6214
+0	+0	+0	+0	+0
-501.105	-525.385	+24.28	-513.245	-4.6214
+0	+0	+0	+0	+0
-501.105	-525.385	+24.28	-513.245	-4.6214
+0	+0	+0	+0	+0
-501.105	-525.385	+24.28	-513.245	-4.6214
+0	+0	+0	+0	+0

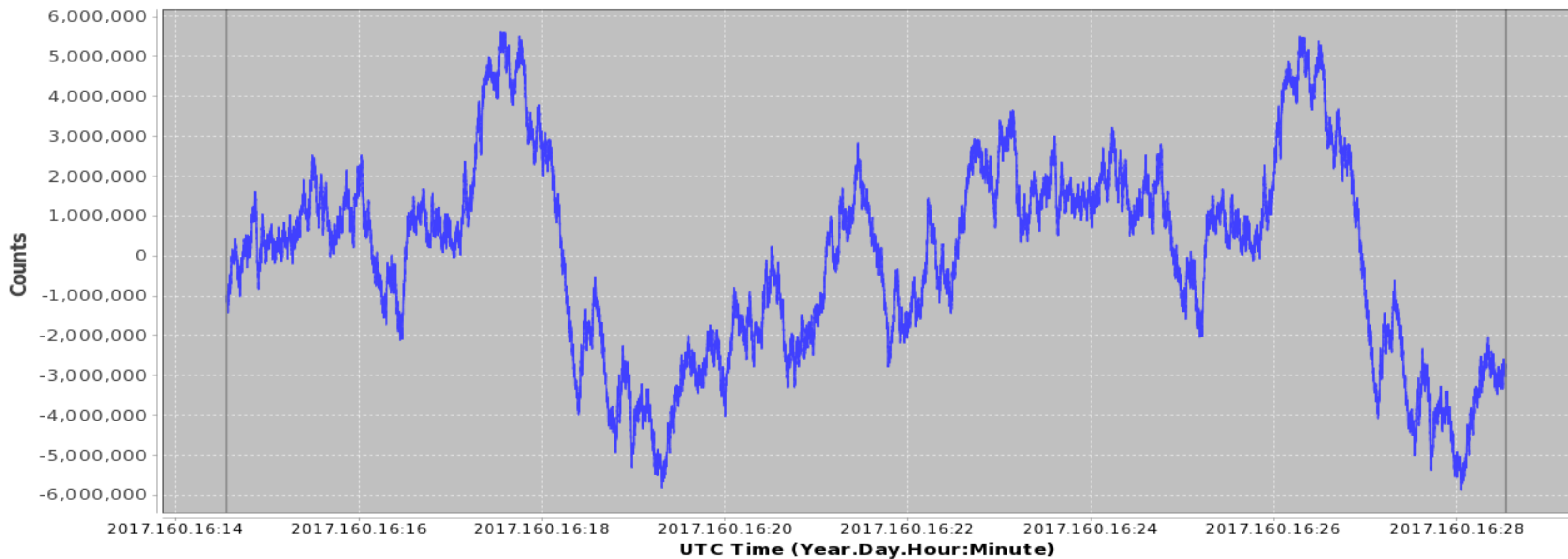
ZERO VARIABLES, AS CSV:

Init	Fit	Diff	Mean	PctDiff
-21.9911	-17.1477	-4.8434	-19.5694	+28.2449
+0	+0	+0	+0	+0
-21.9911	-17.1477	-4.8434	-19.5694	+28.2449
+0	+0	+0	+0	+0
-351.858	-354.7172	+2.8592	-353.2876	-0.806
+0	+0	+0	+0	+0

**IU\_TUC\_CB\_BC6 (200.0 Hz)**



**IU\_TUC\_60\_EHZ (200.0 Hz)**



Response name: STS-6\_4repeats  
Gain stage values:  
0: 2,013,264,000  
1: 1,200  
2: 1,677,720  
Normalization: 9.7776278794E12  
Normalization frequency (Hz): 0.02  
Transfer function is LAPLACIAN  
Response input units: velocity (m/s)  
Response zeros:  
0: 0  
1: 0  
2: -21.9911  
3: -21.9911  
4: -351.858  
5: -605.071  
6: -521.504 - 960.699i  
7: -521.504 + 960.699i  
Response poles:  
0: -0.0123 + 0.0121i  
1: -0.0123 - 0.0121i  
2: -22.3068  
3: -22.3068  
4: -351.858  
5: -501.105  
6: -501.105  
7: -501.105  
8: -501.105  
9: -121.58 + 647.231i  
10: -121.58 - 647.231i