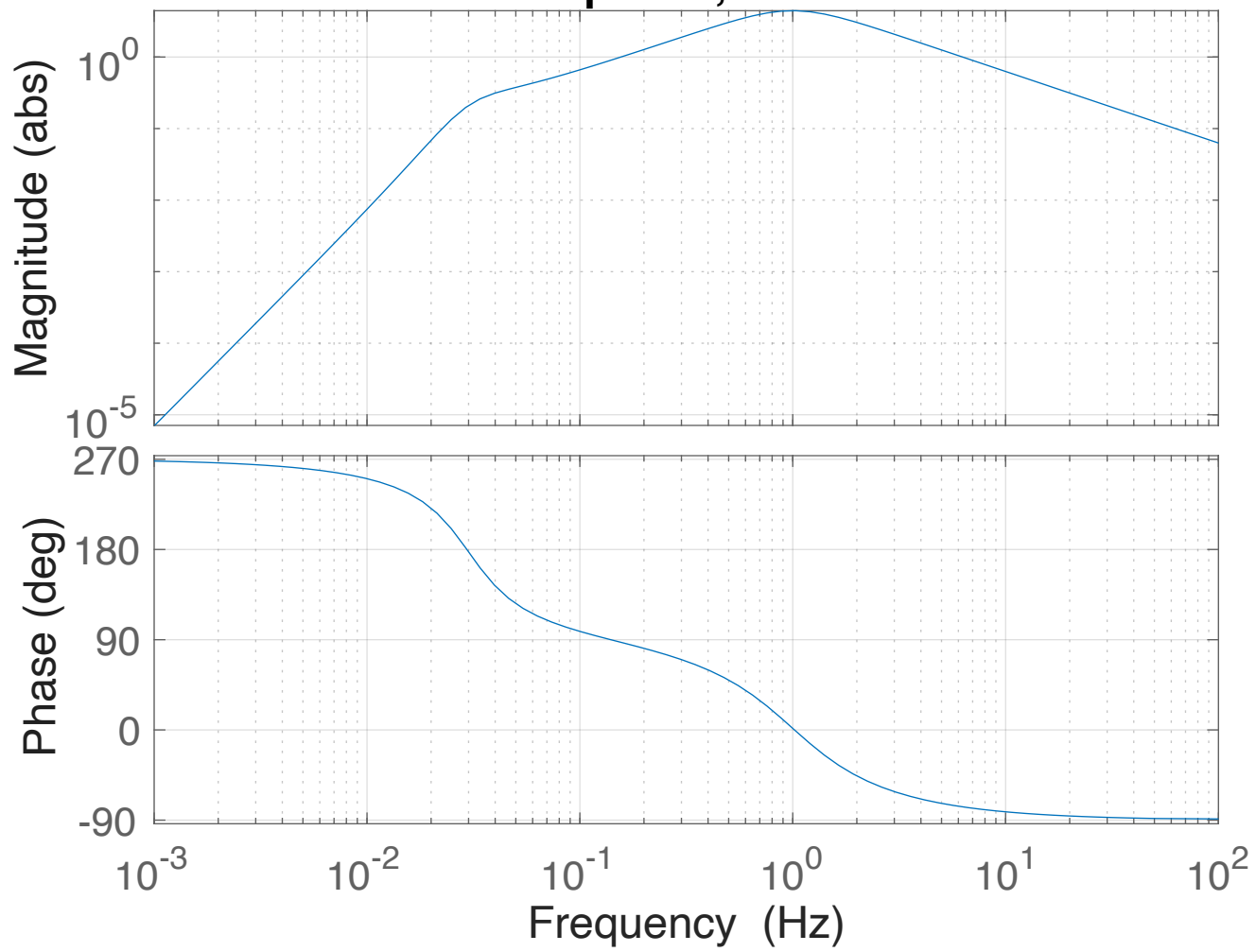
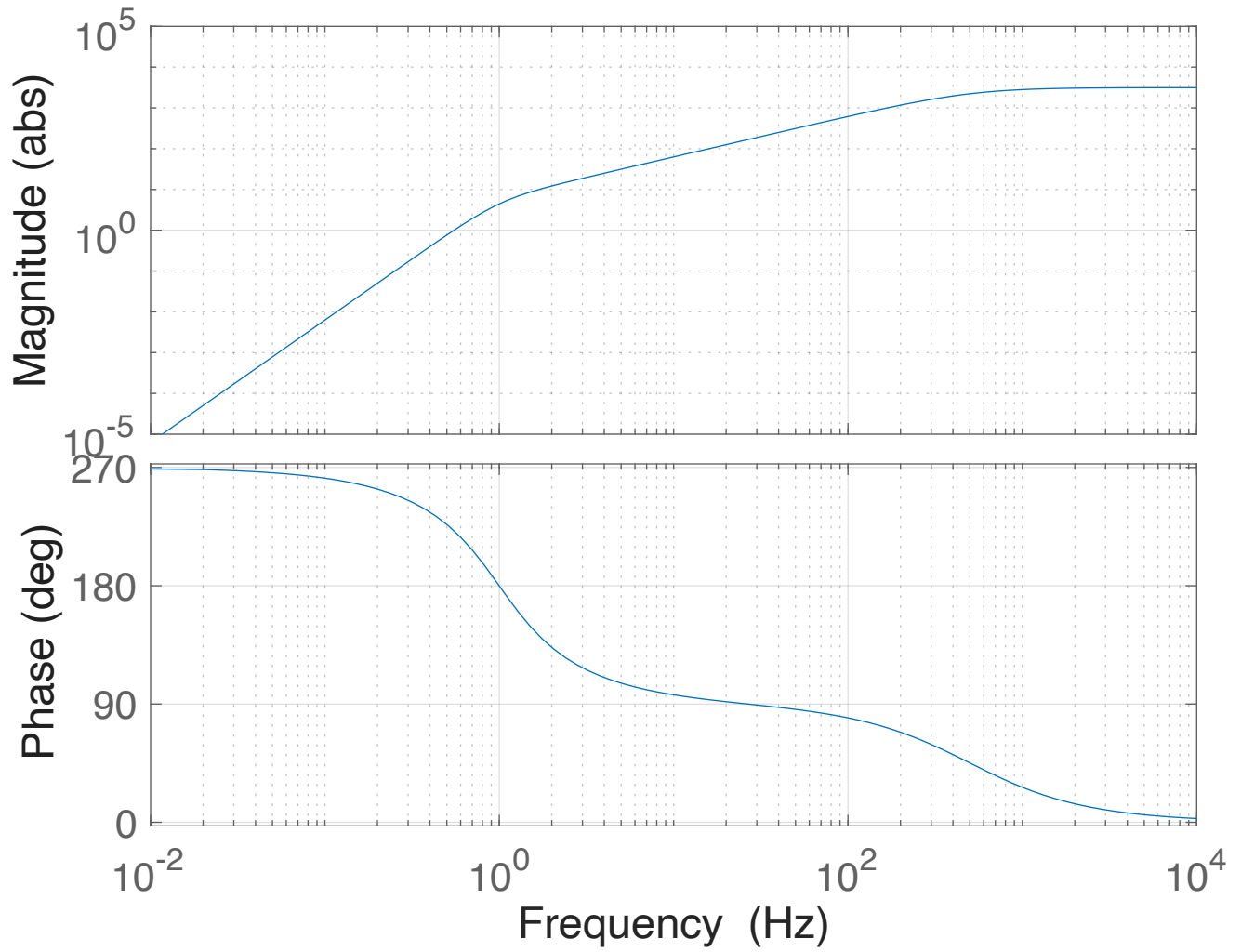


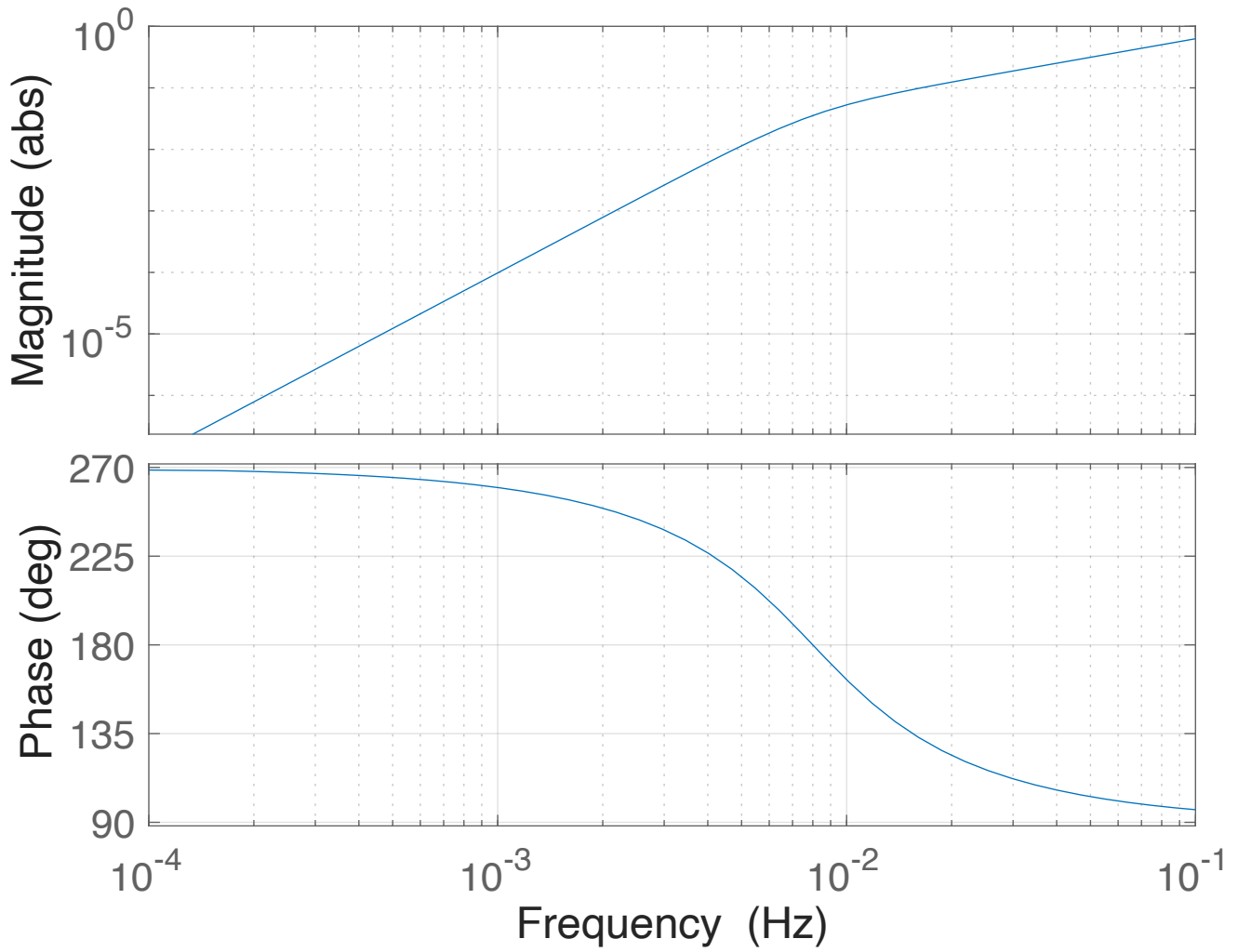
**ideal response, in cnts/nm**



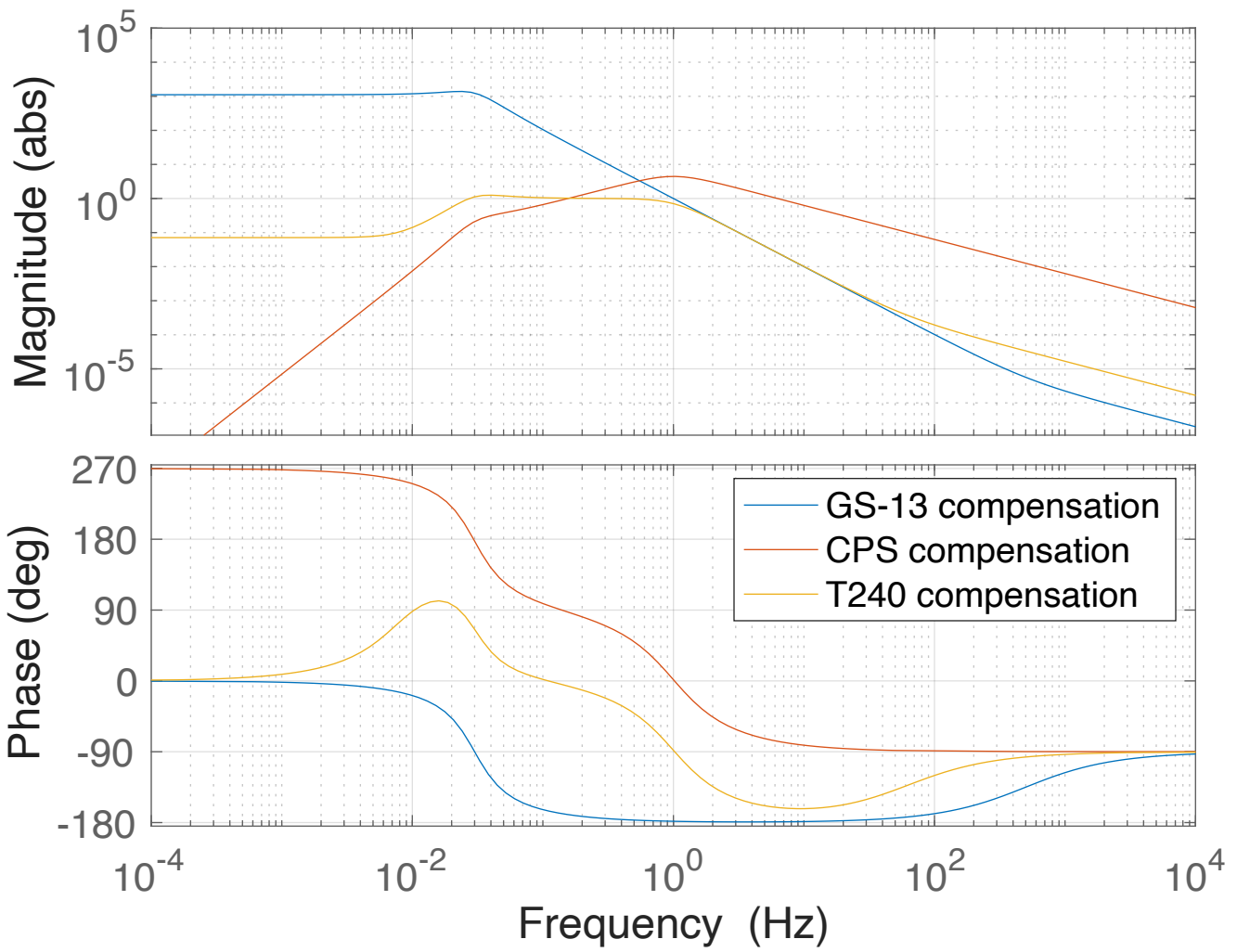
### GS-13 response, in cnts/nm



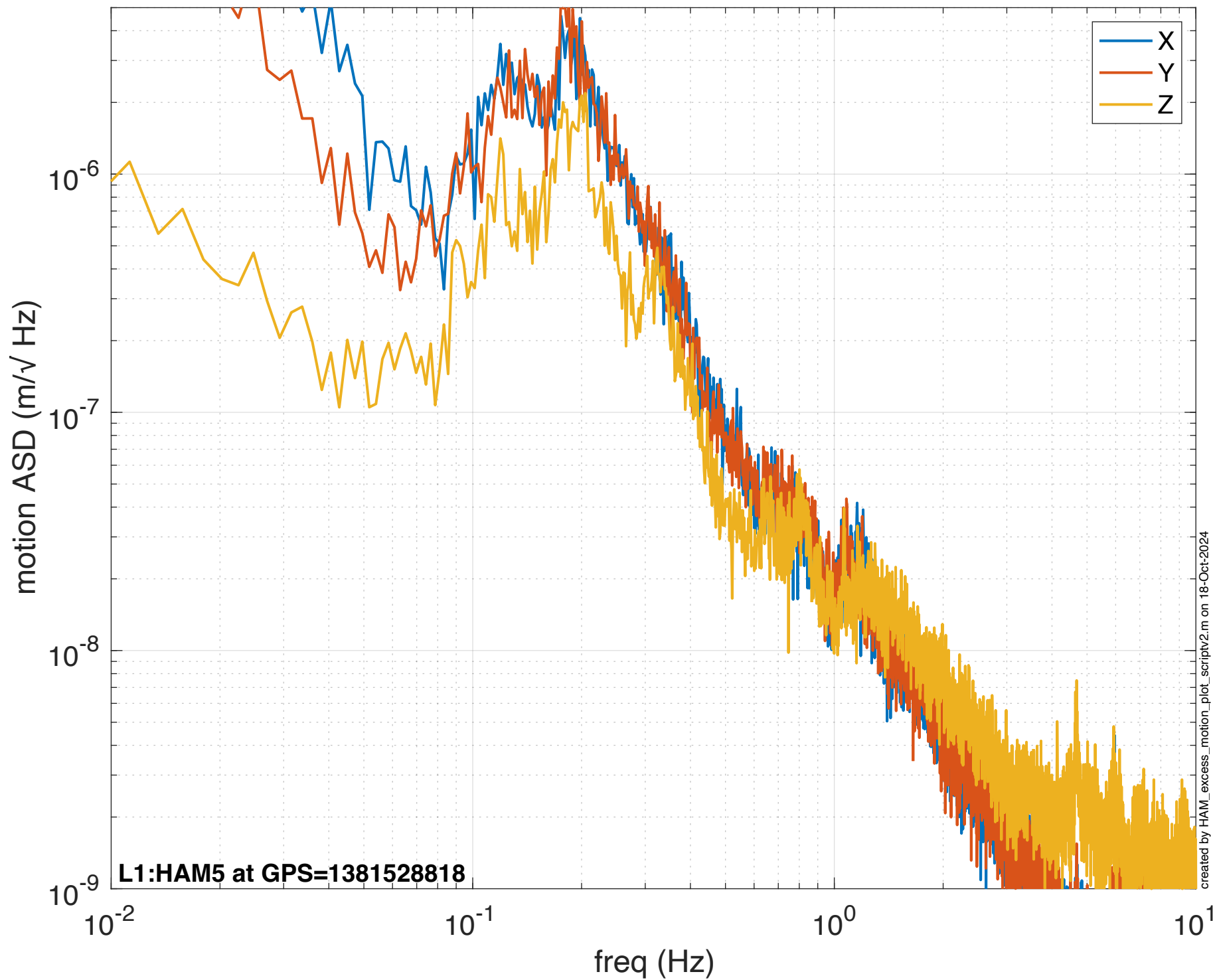
### T240 response, in cnts/nm



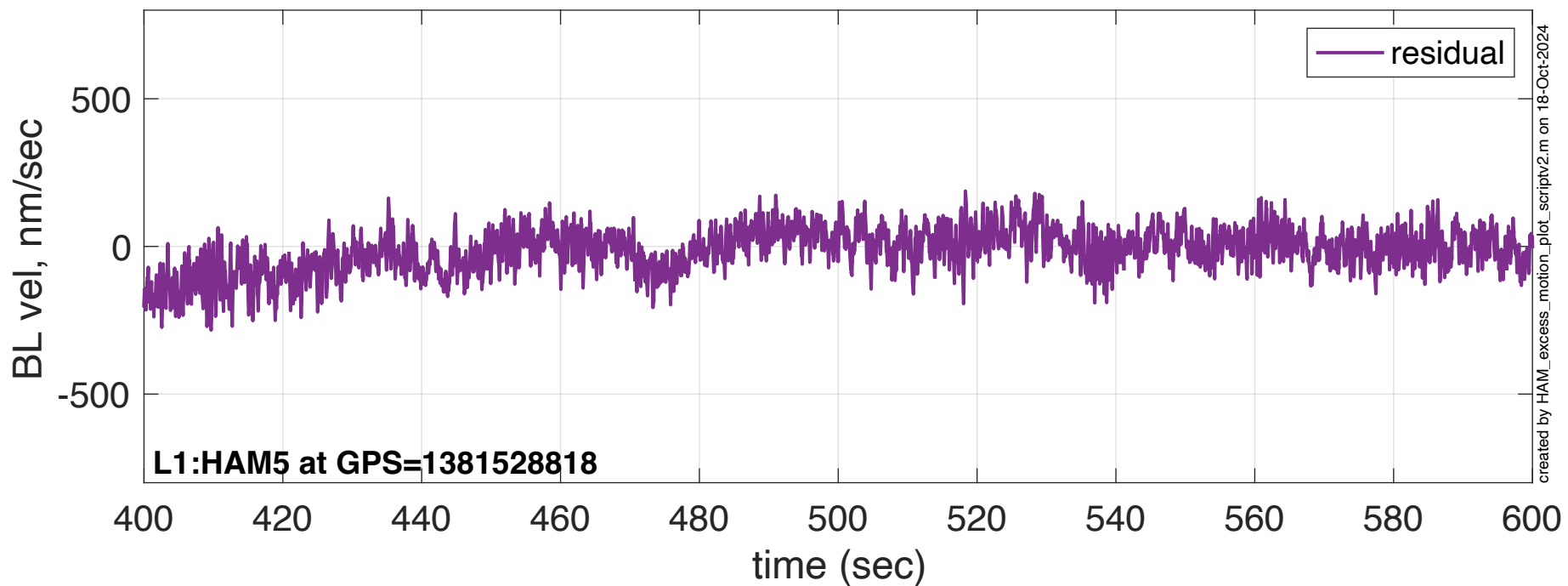
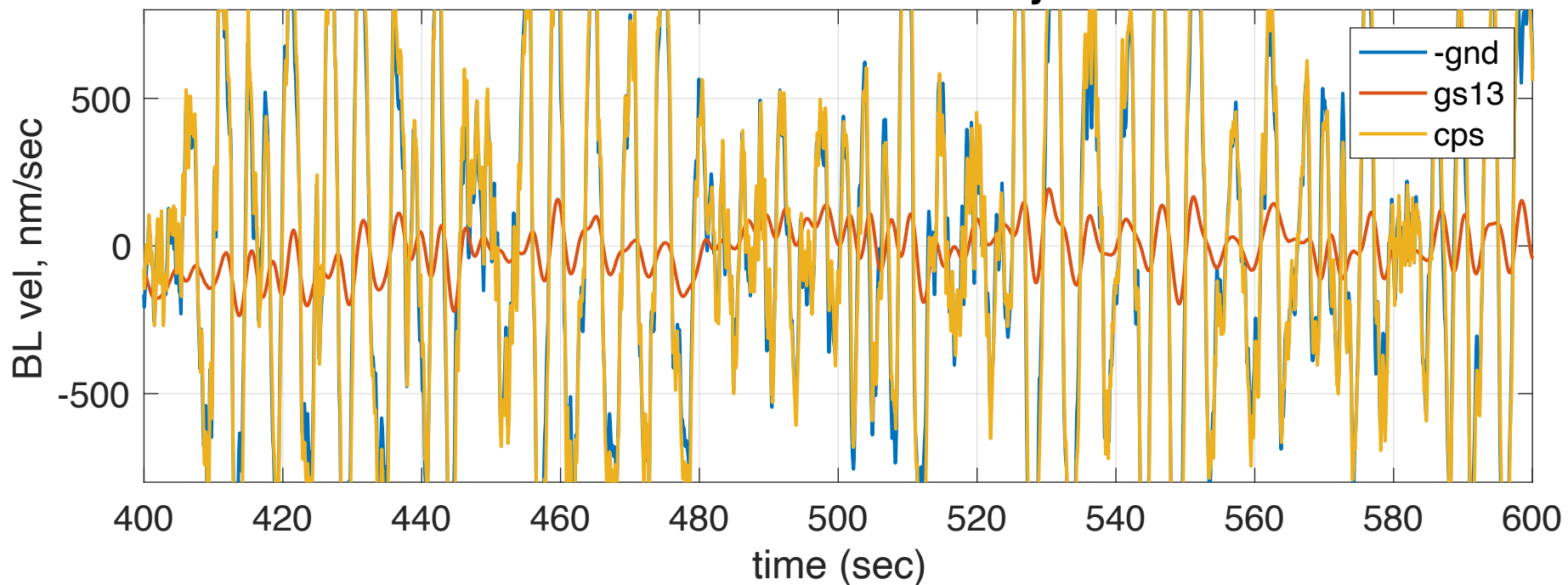
# Bode Diagram



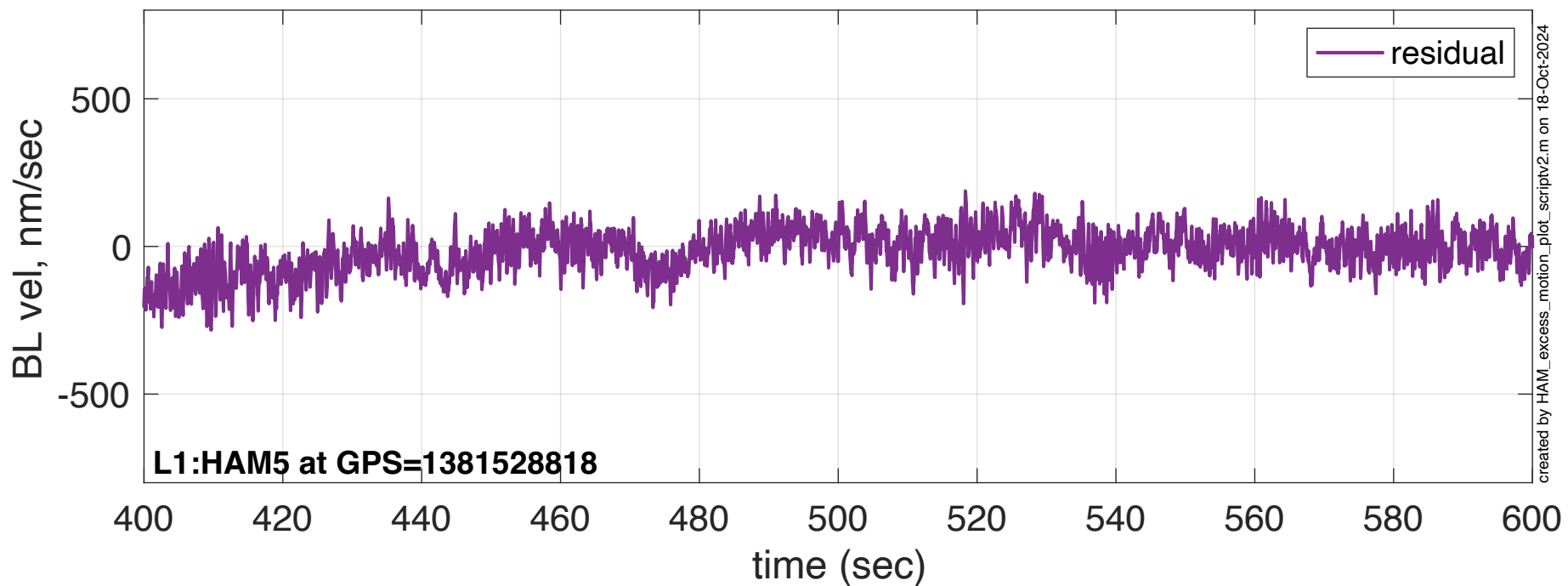
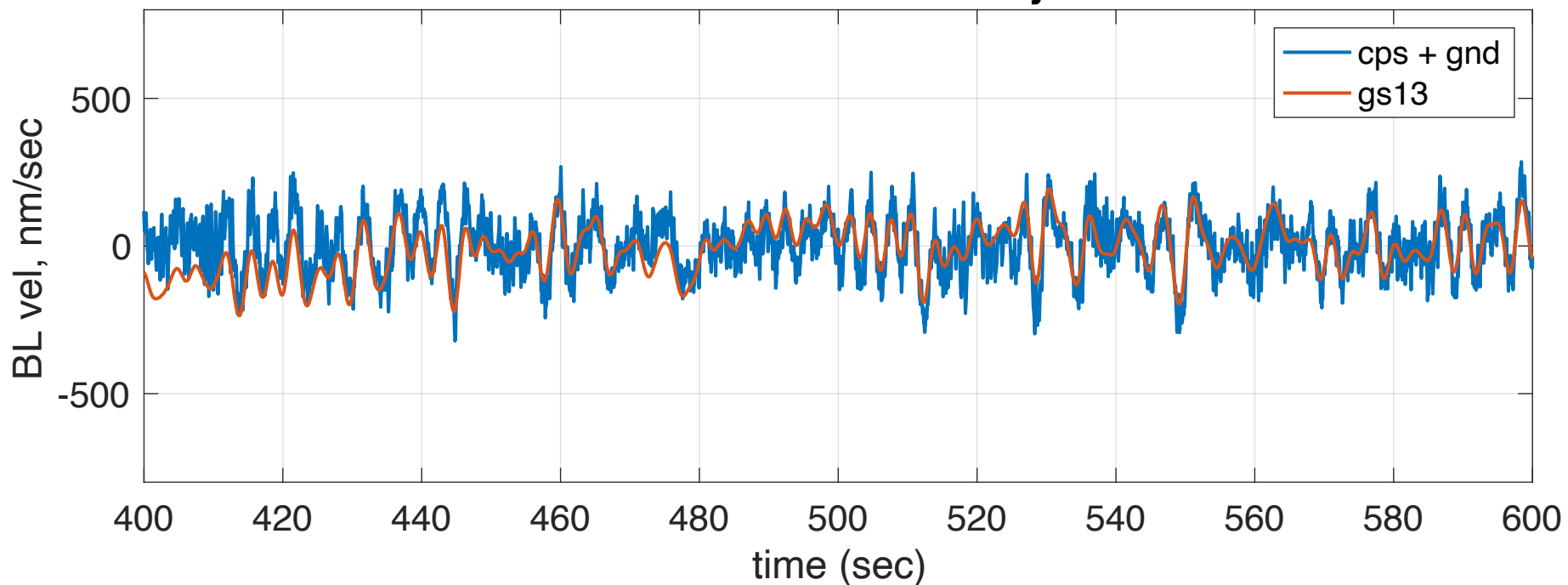
# Ground Motion



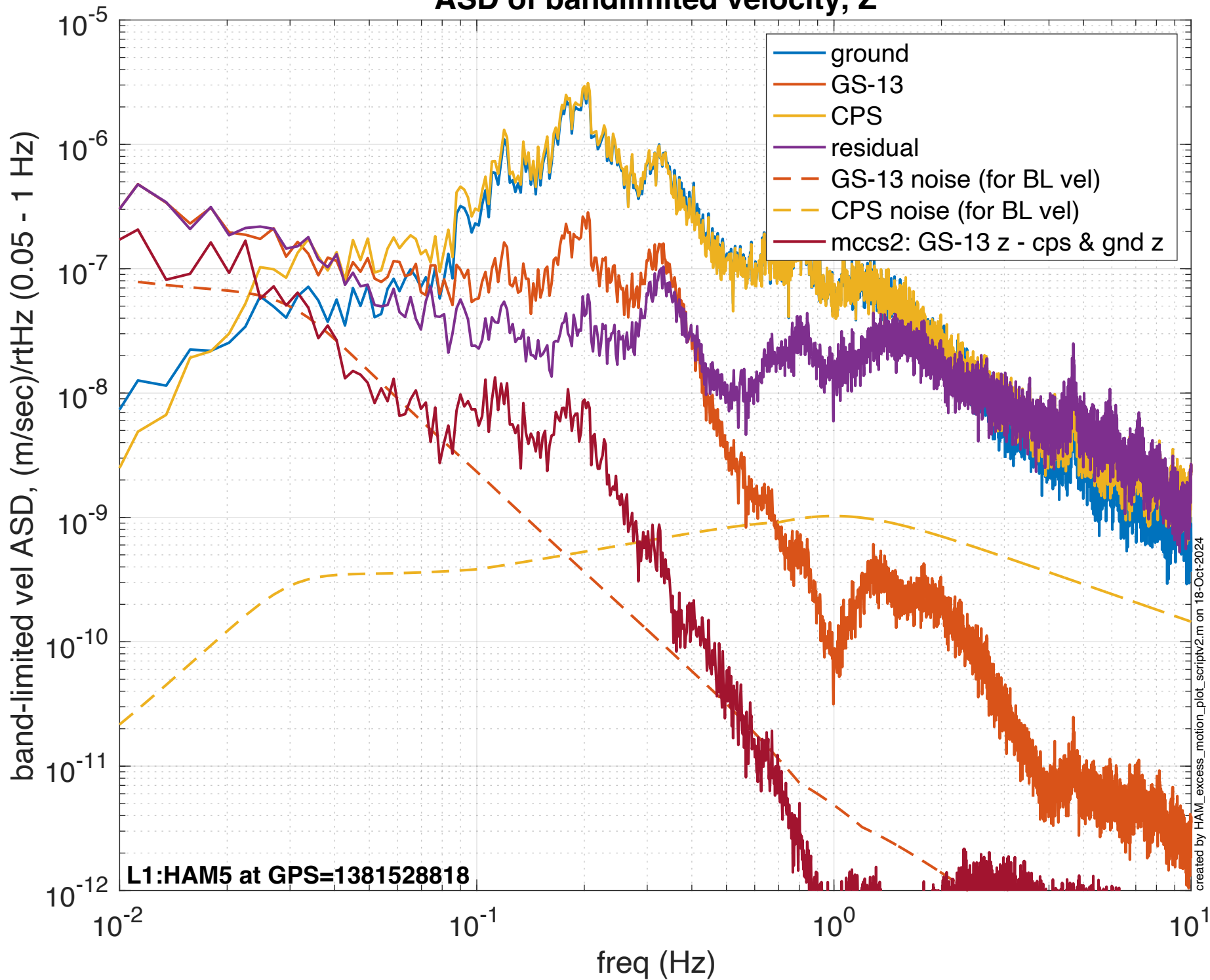
### band limited z velocity



### band limited z velocity

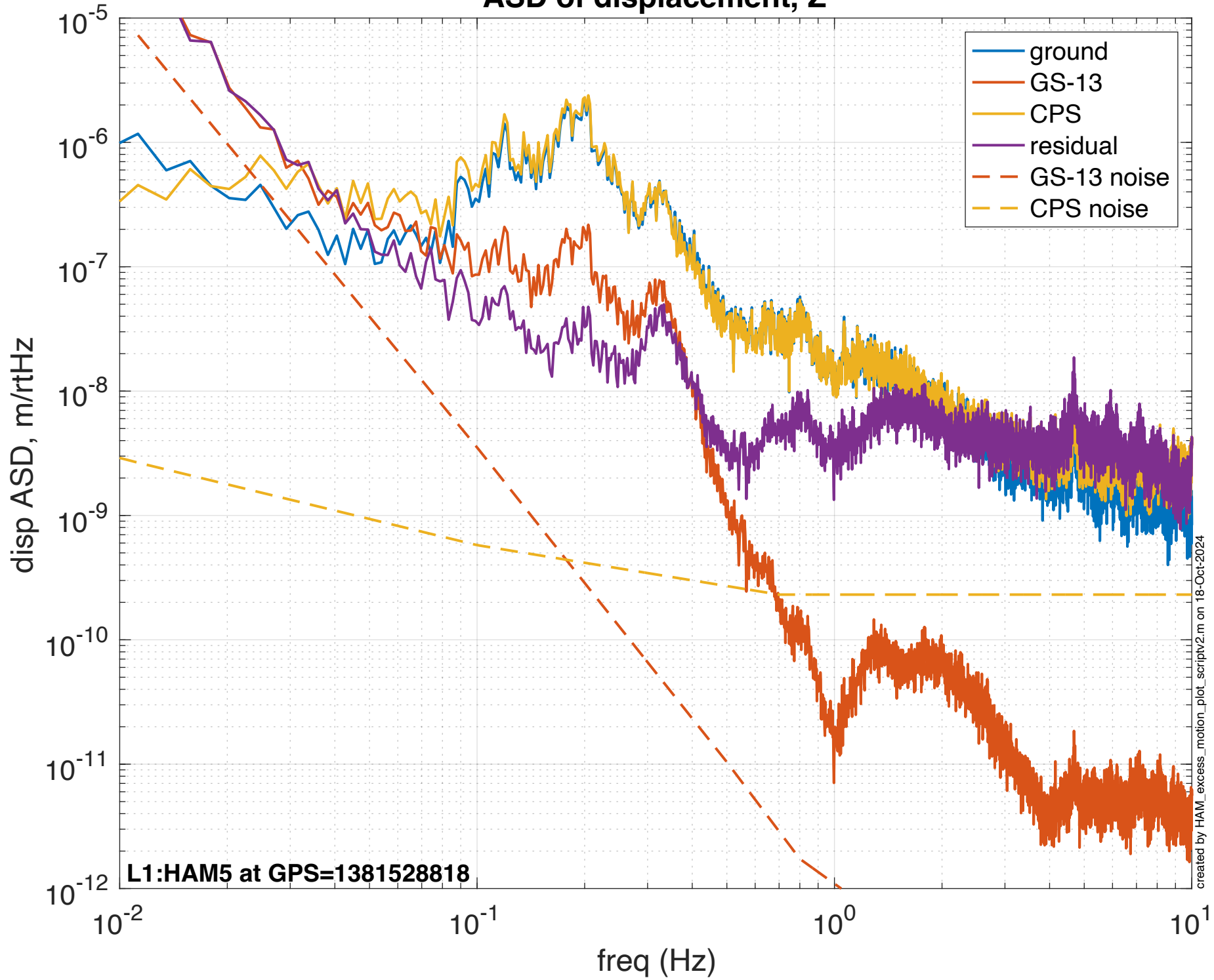


# ASD of bandlimited velocity, Z





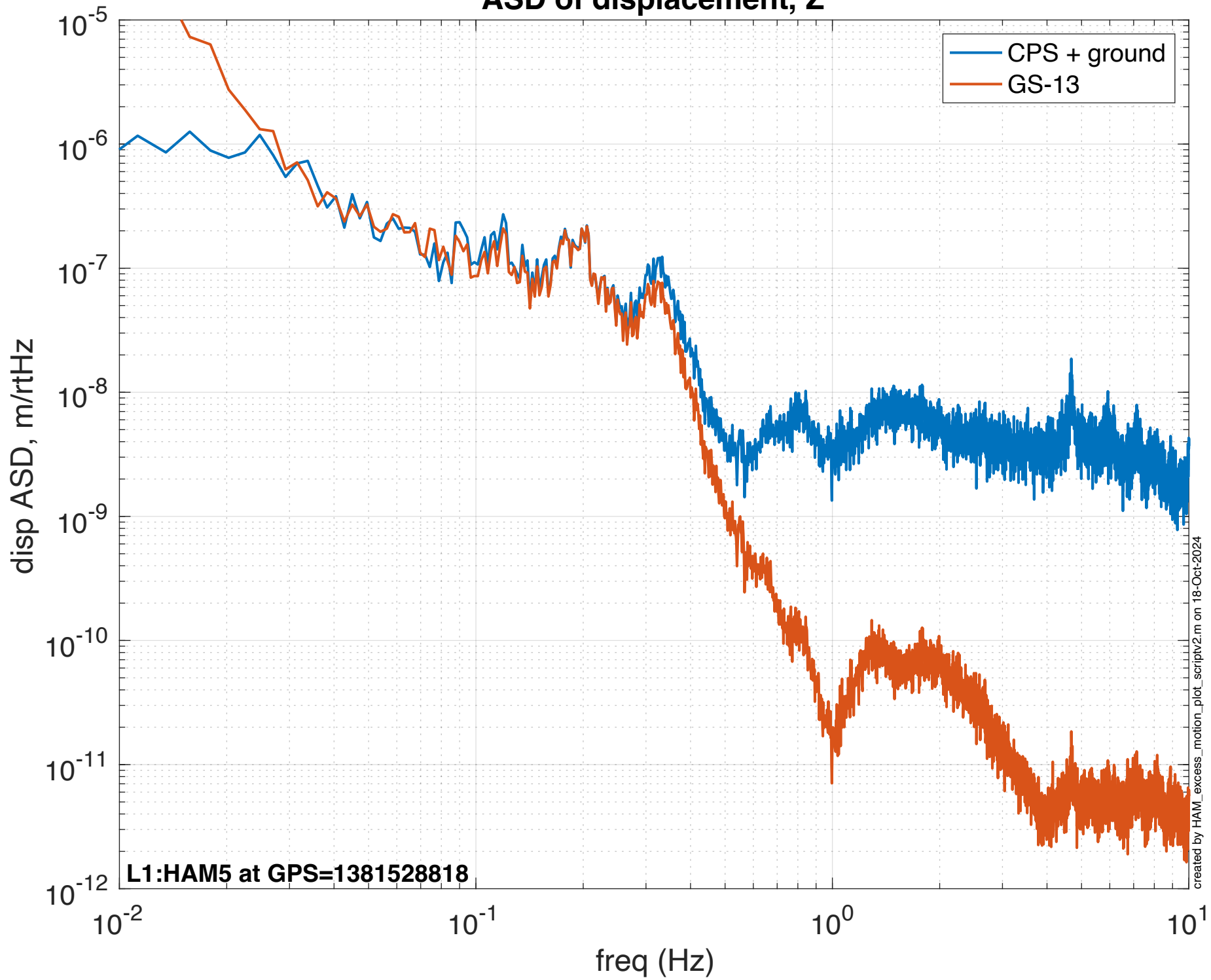
# ASD of displacement, Z



L1:HAM5 at GPS=1381528818

created by HAM\_excess\_motion\_plot\_scriptv2.m on 18-Oct-2024

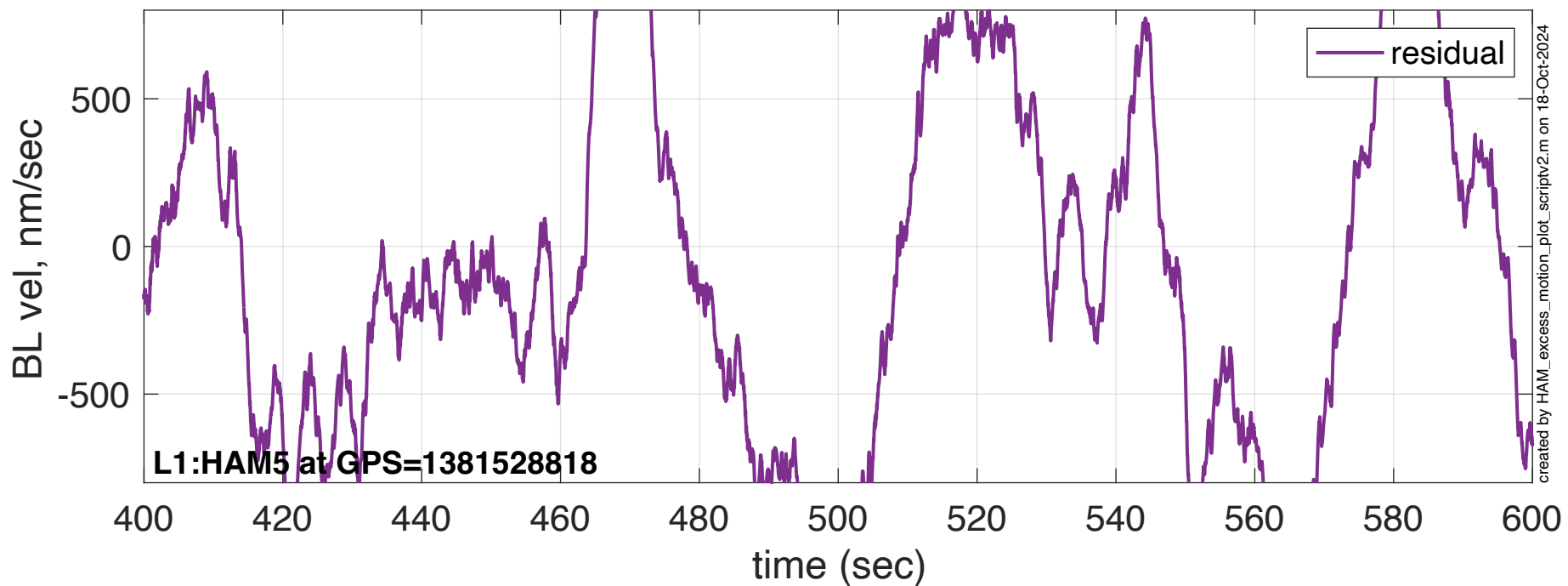
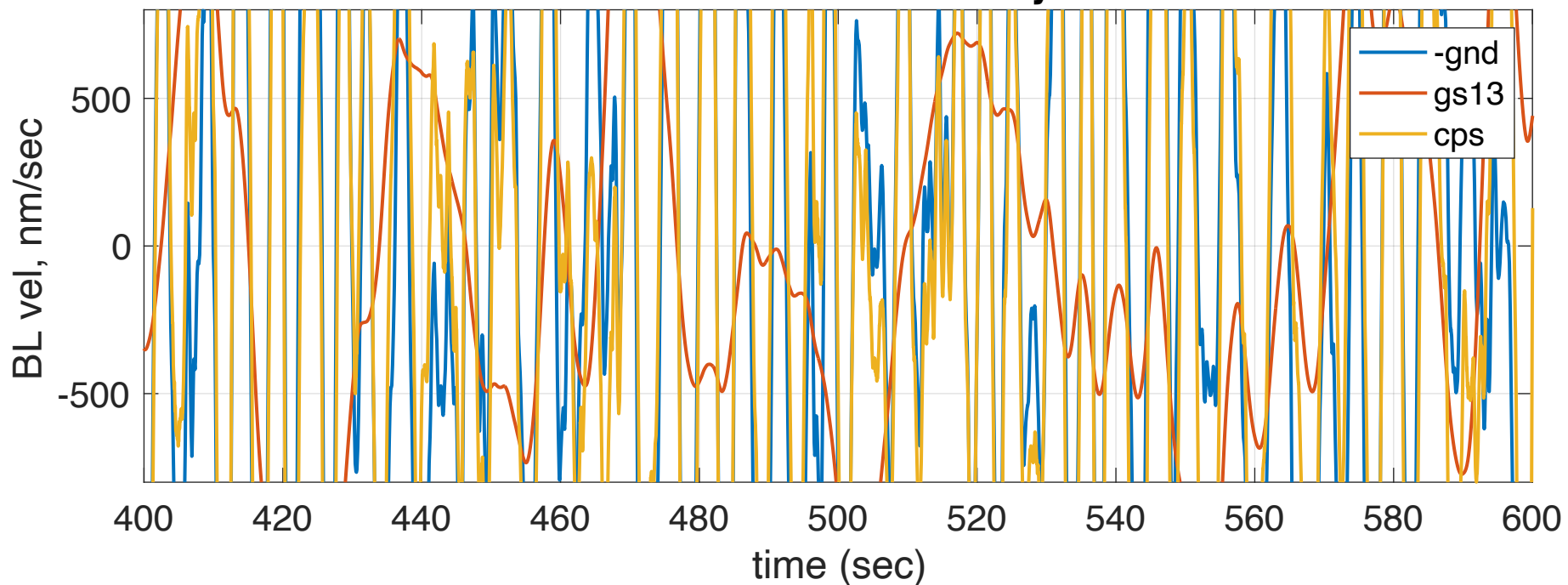
# ASD of displacement, Z



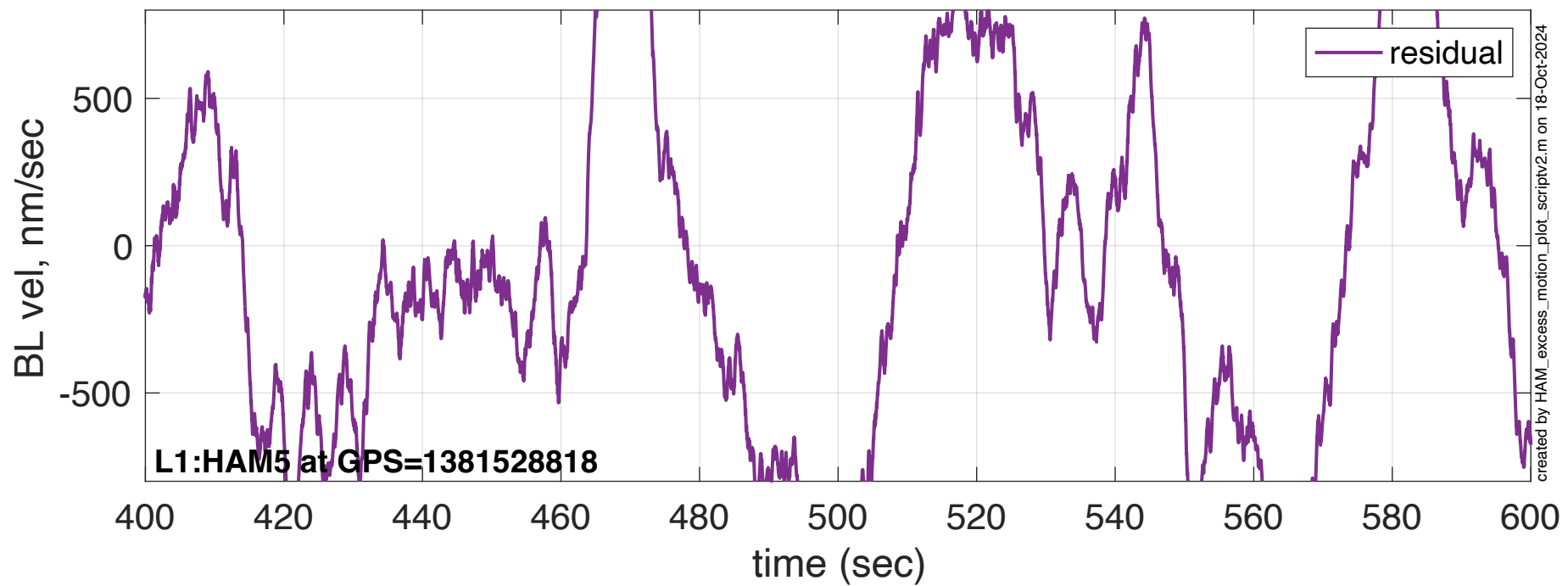
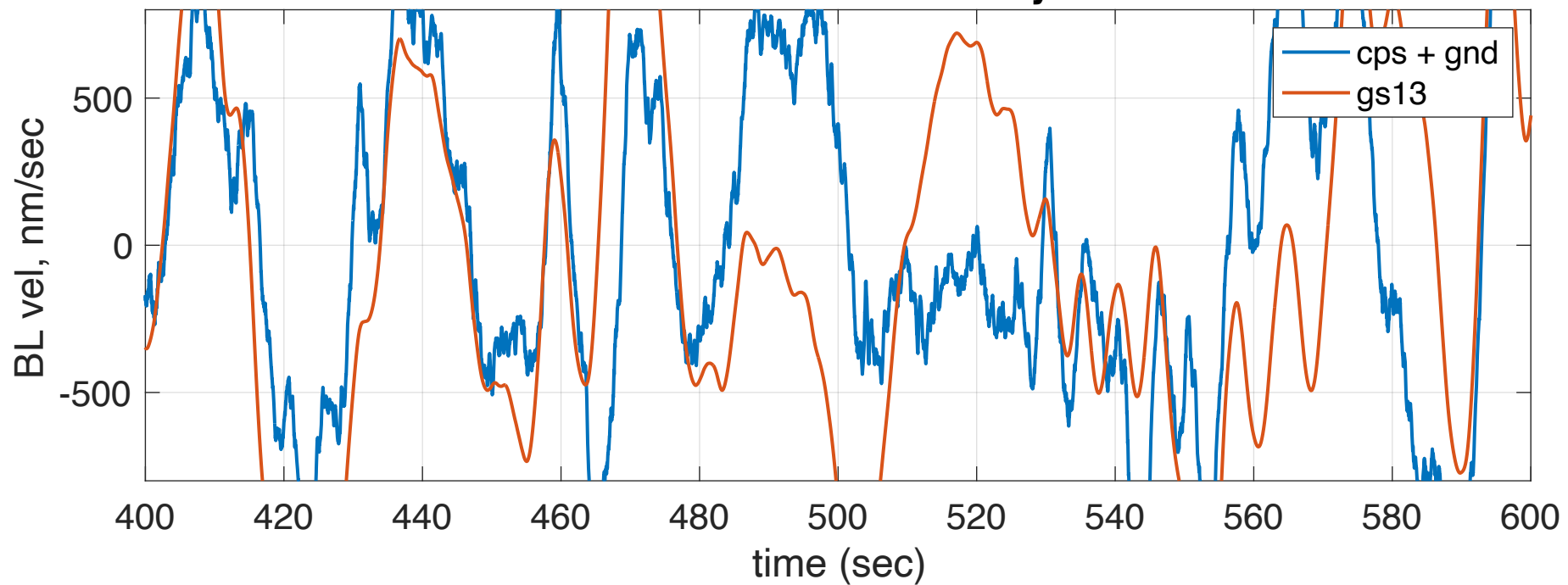
L1:HAM5 at GPS=1381528818

created by HAM\_excess\_motion\_plot\_scriptv2.m on 18-Oct-2024

# band limited x velocity

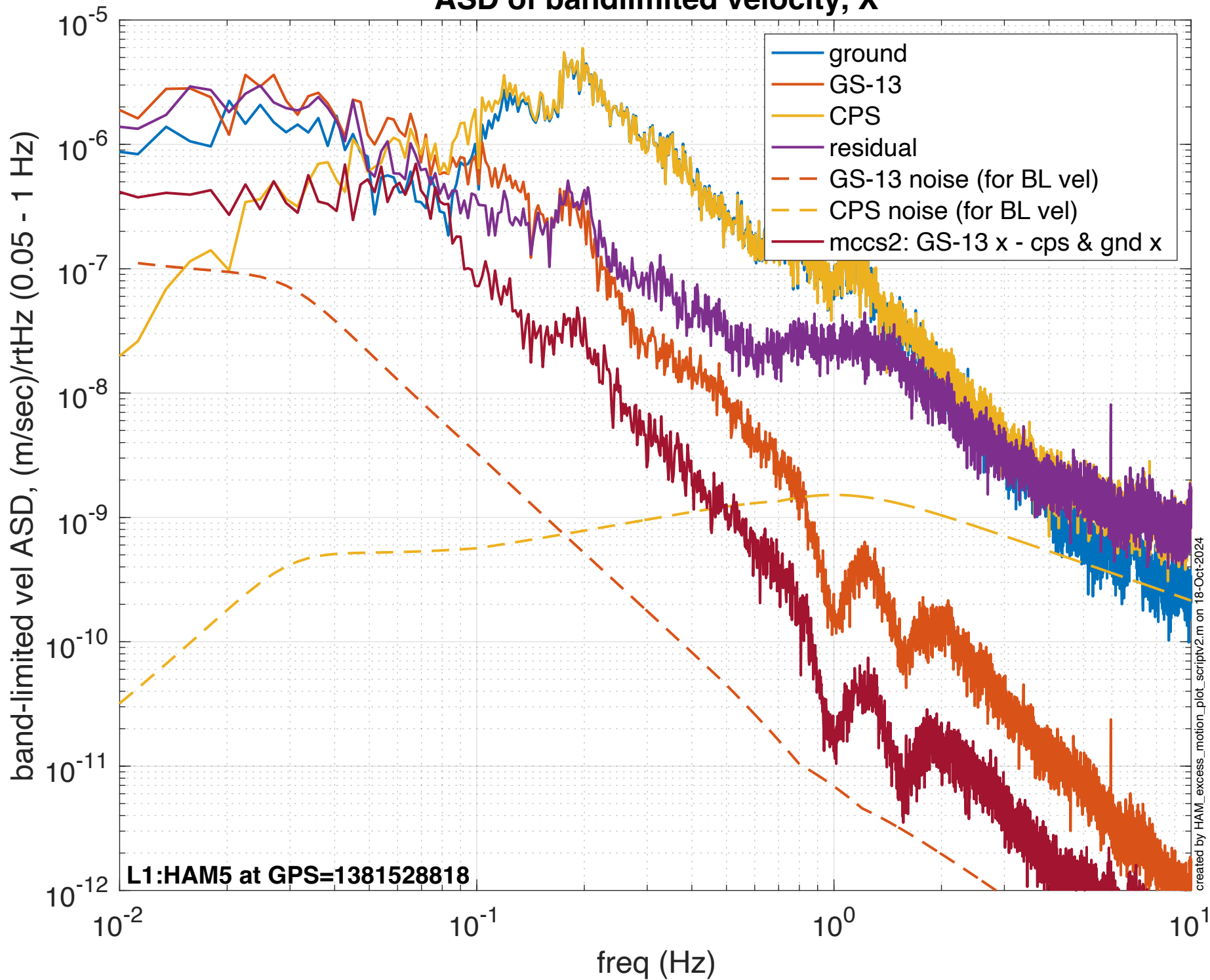


### band limited x velocity

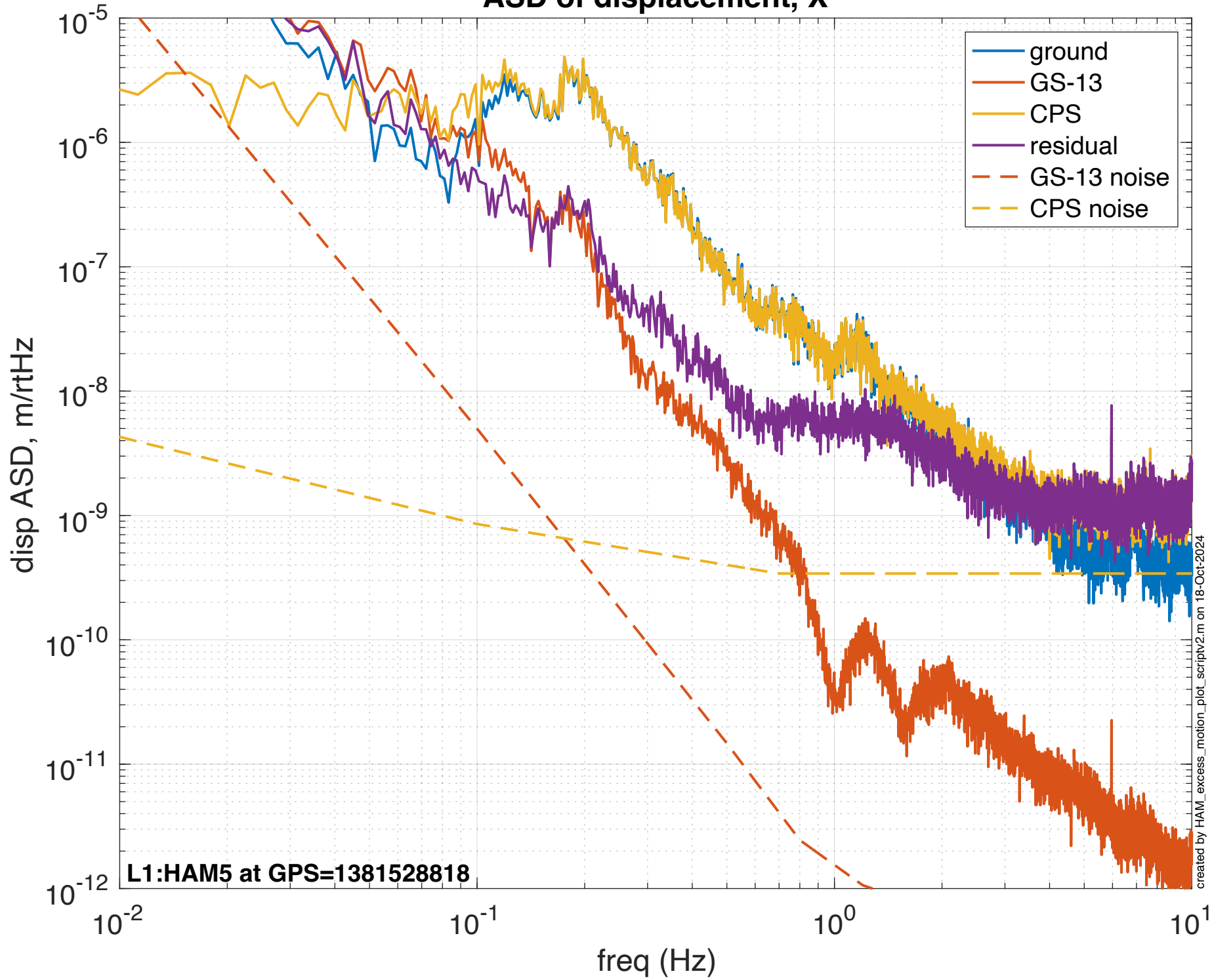


created by HAM\_excess\_motion\_plot\_scriptv2.m on 18-Oct-2024

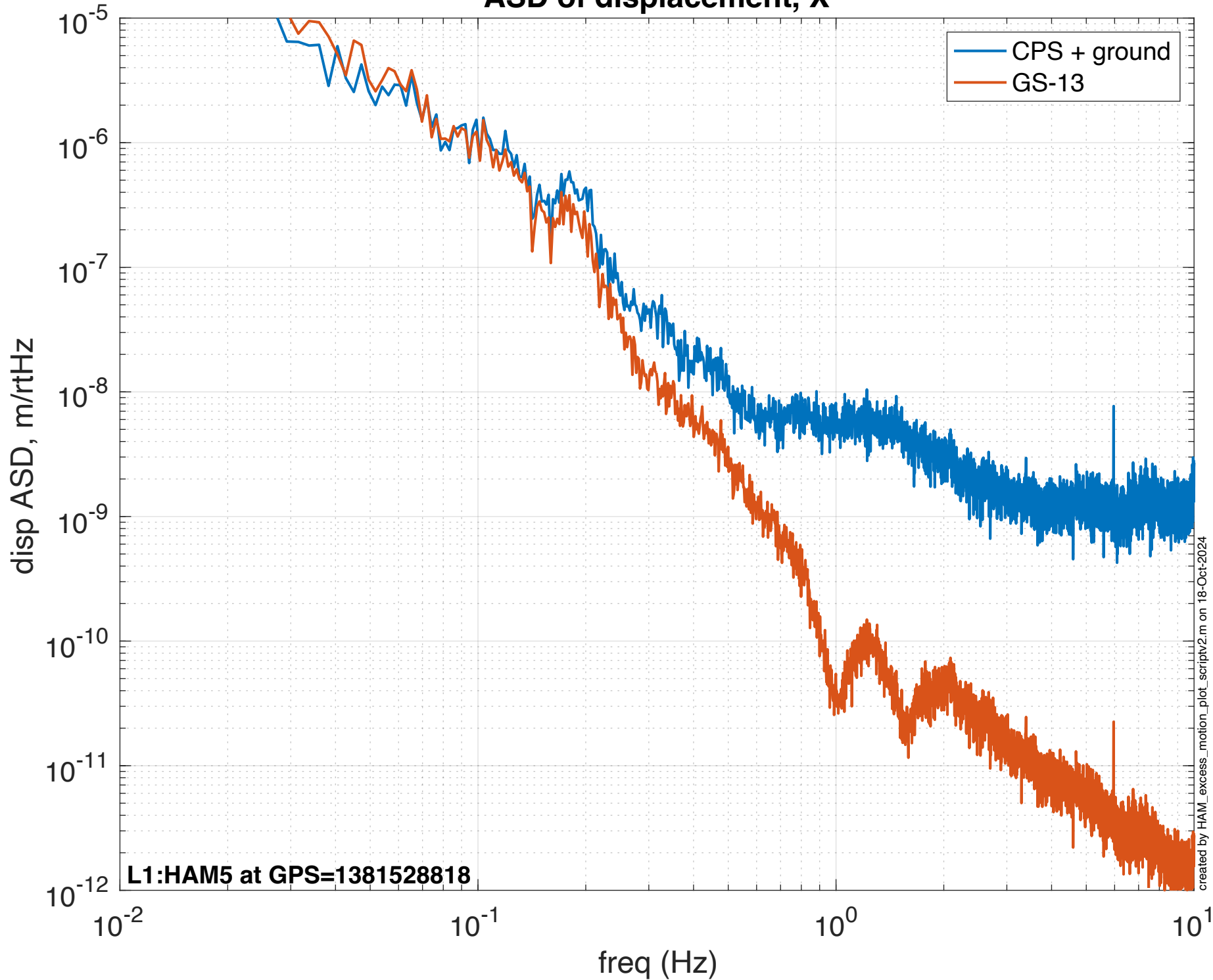
# ASD of bandlimited velocity, X



# ASD of displacement, X



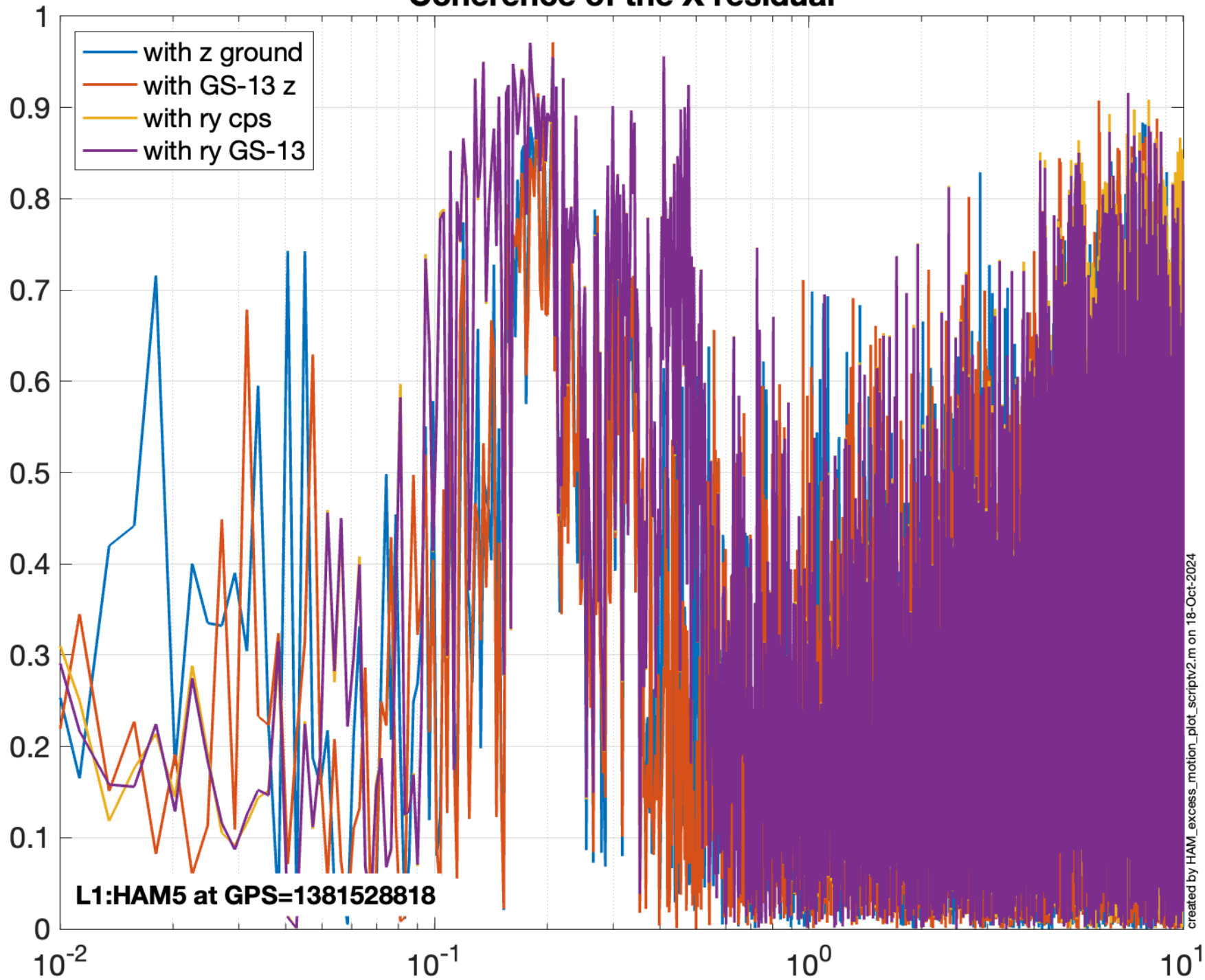
# ASD of displacement, X



L1:HAM5 at GPS=1381528818

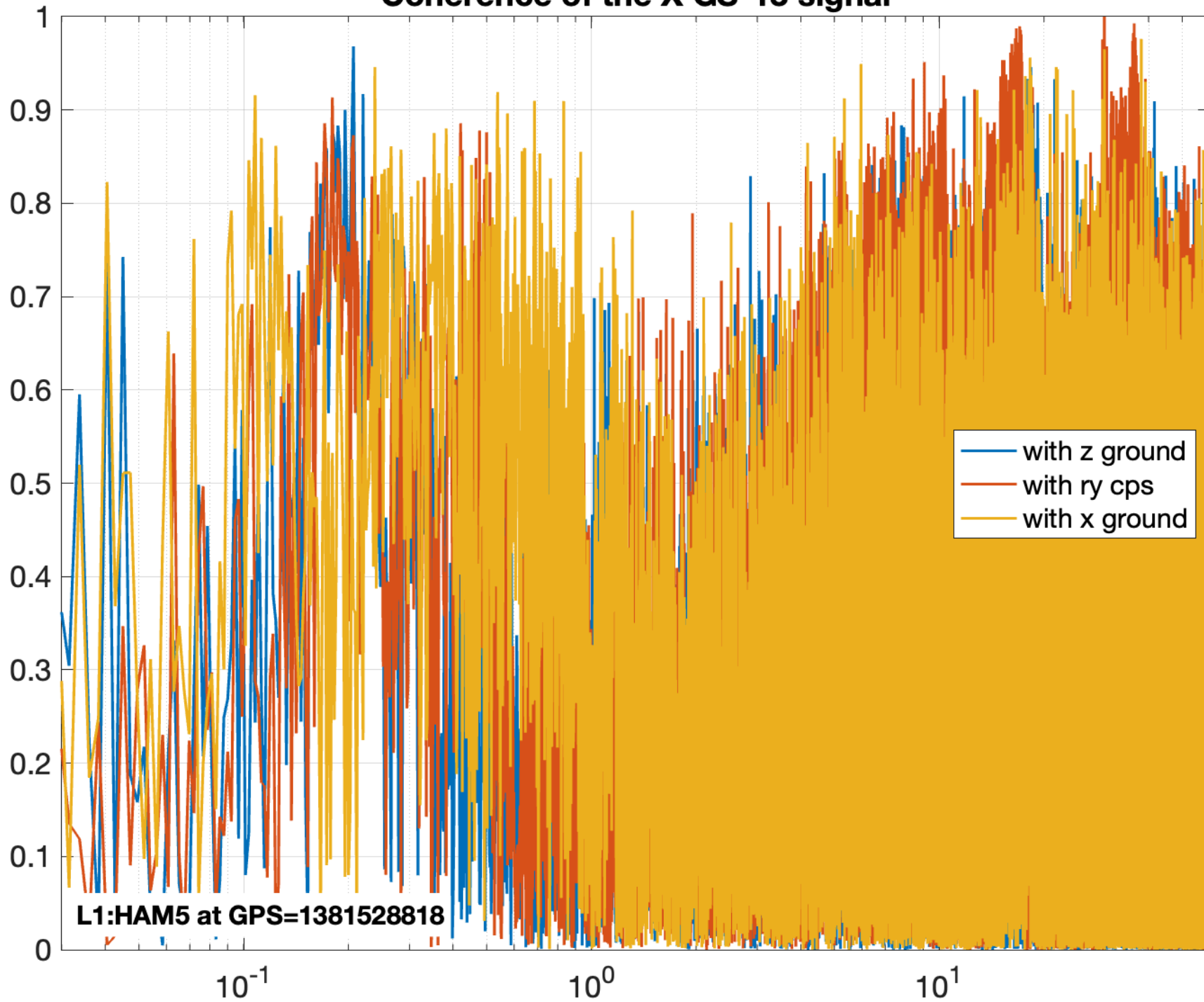
created by HAM\_excess\_motion\_plot\_scriptv2.m on 18-Oct-2024

# Coherence of the X residual

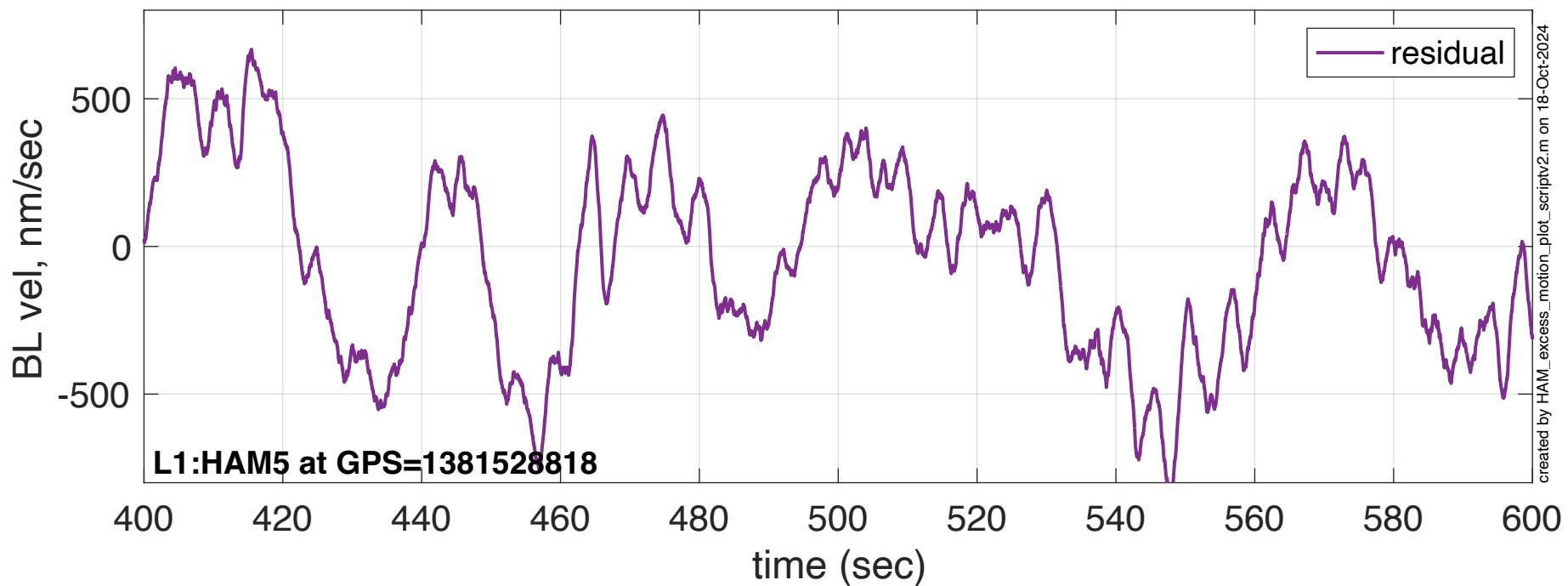
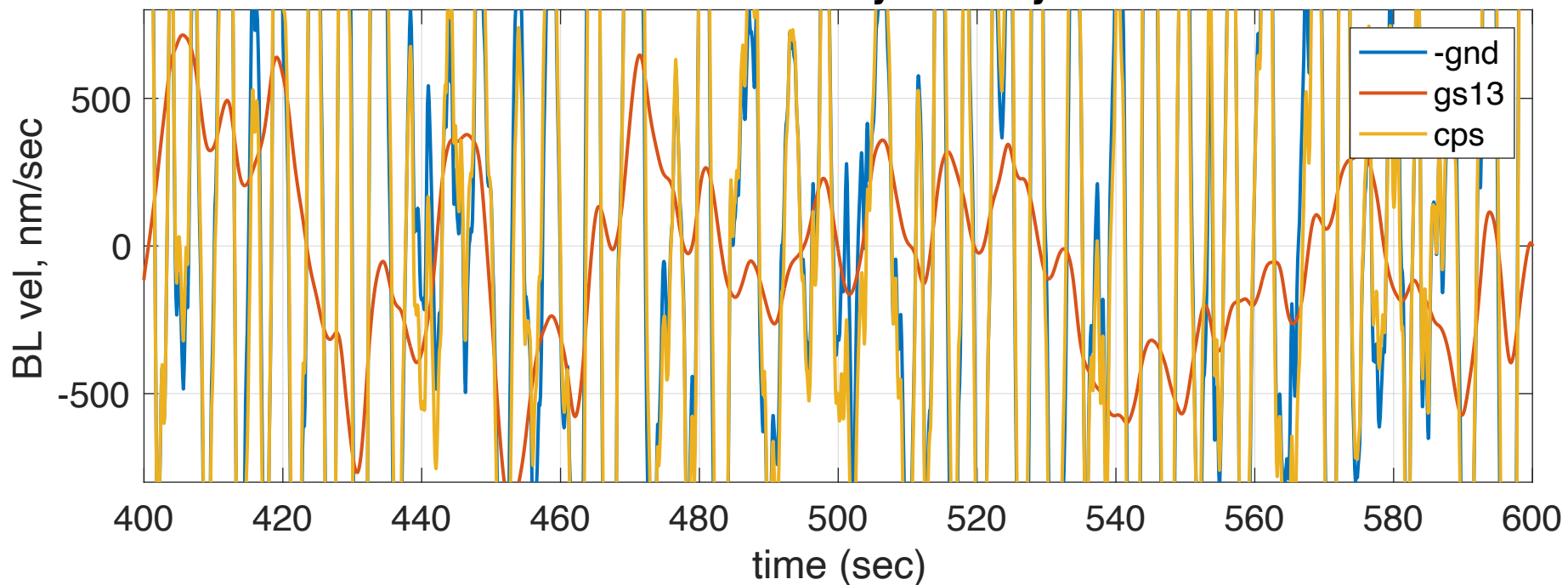




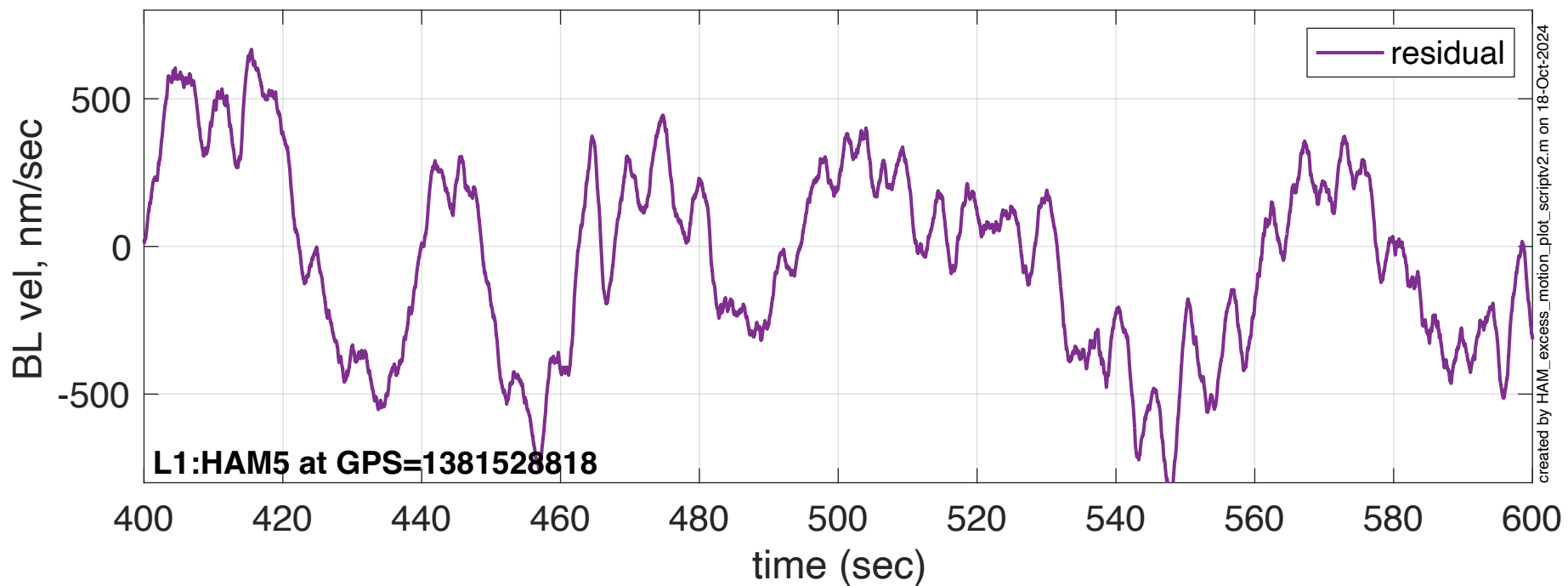
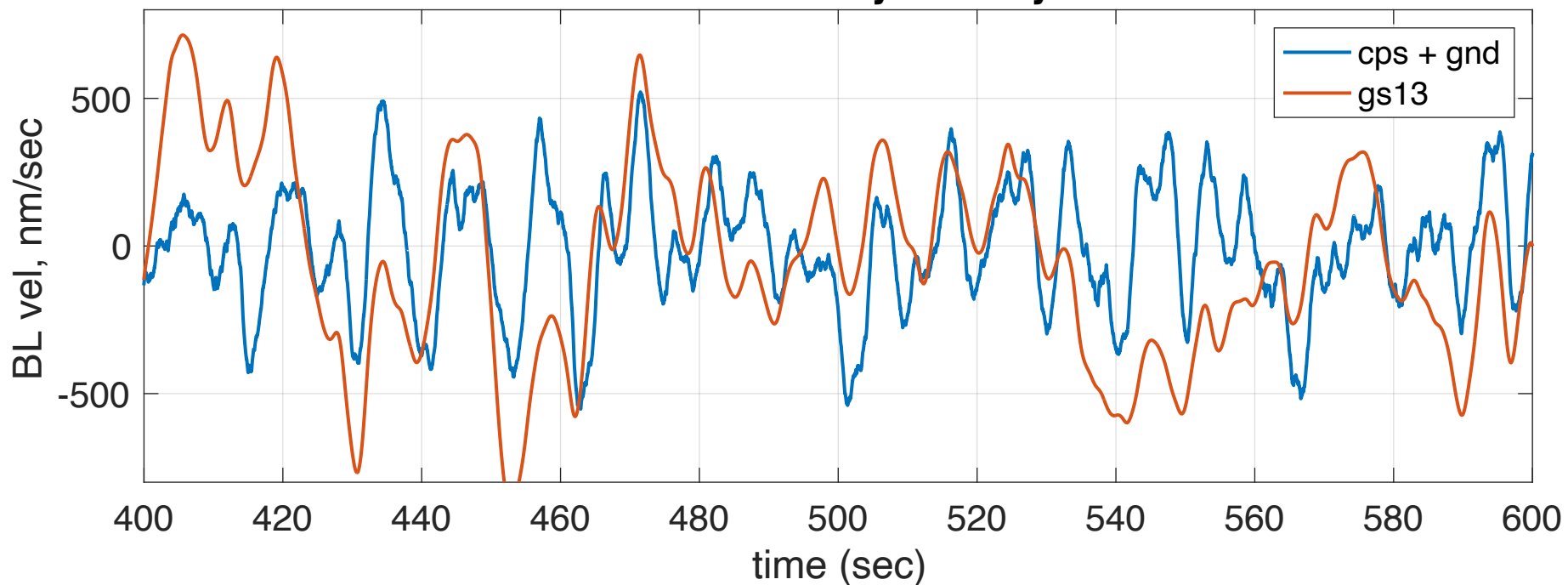
# Coherence of the X GS-13 signal



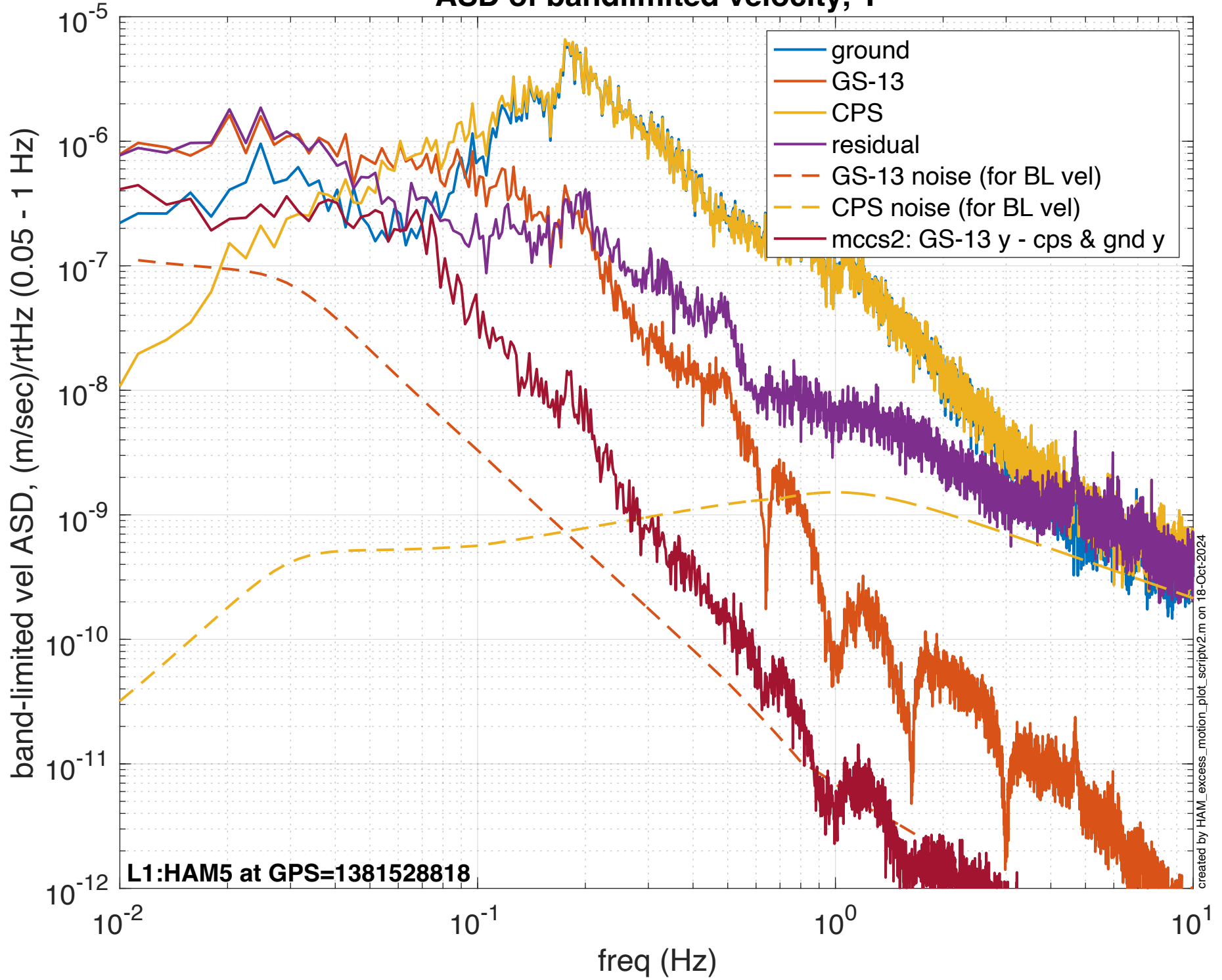
### band limited y velocity



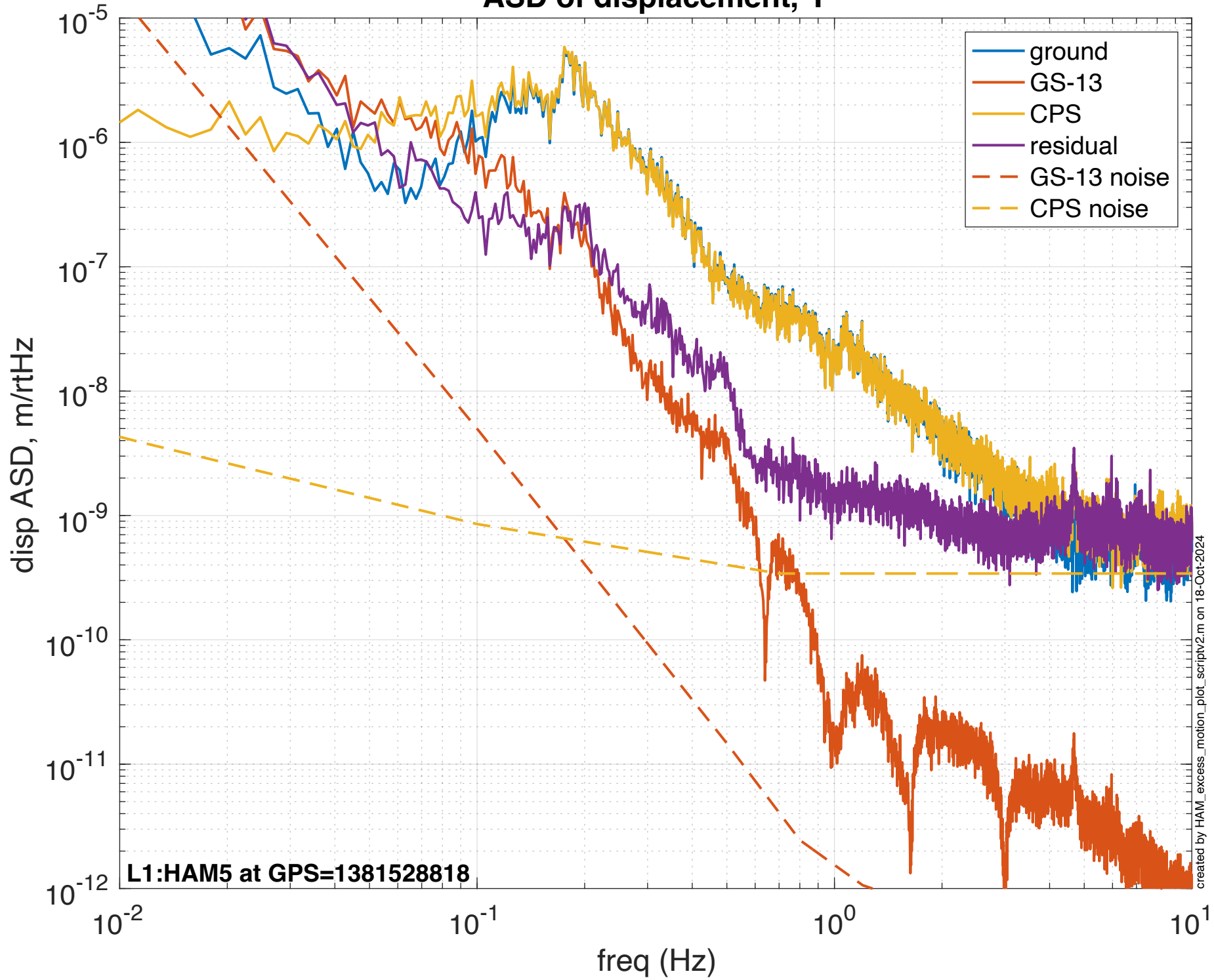
### band limited y velocity



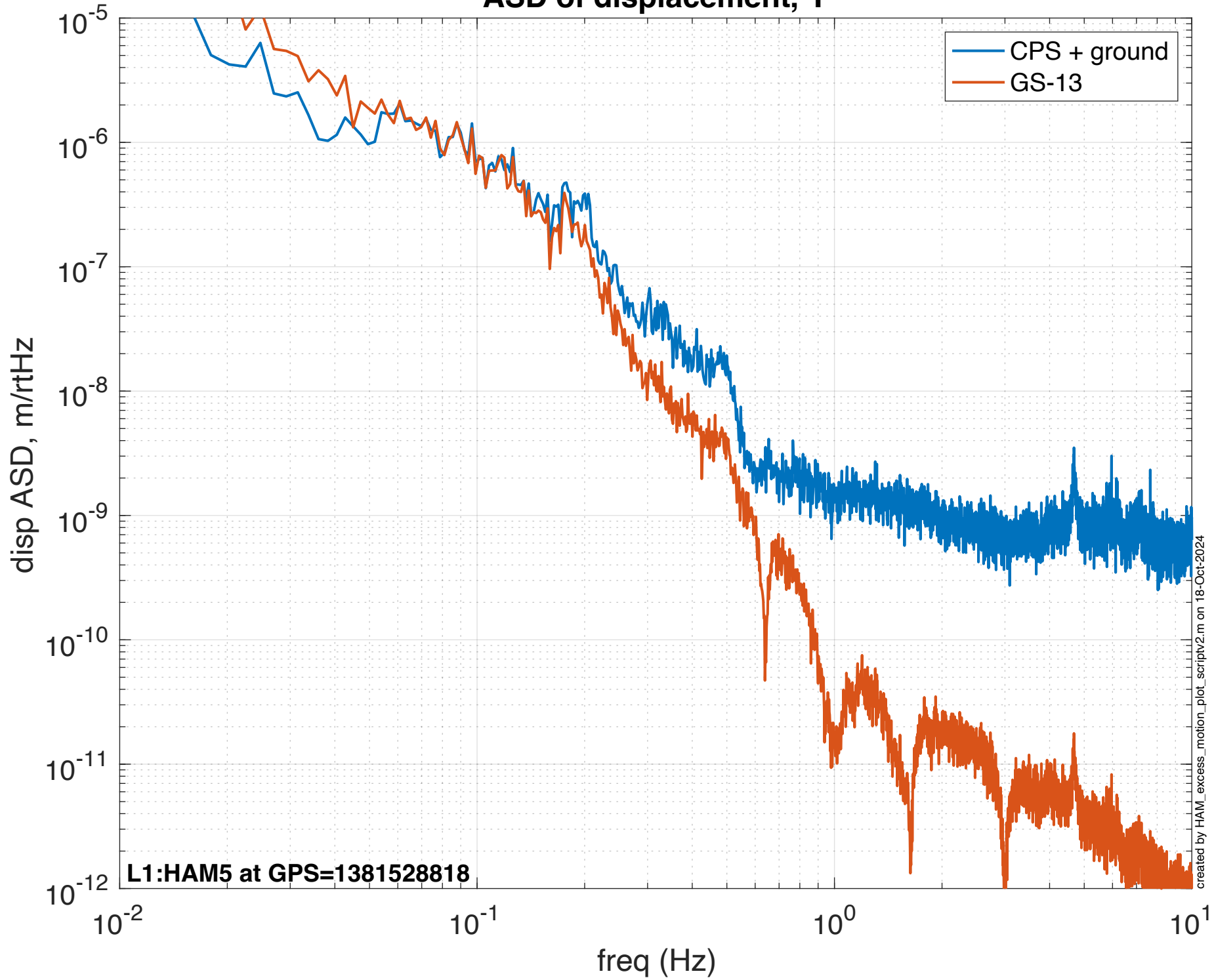
# ASD of bandlimited velocity, Y



# ASD of displacement, Y



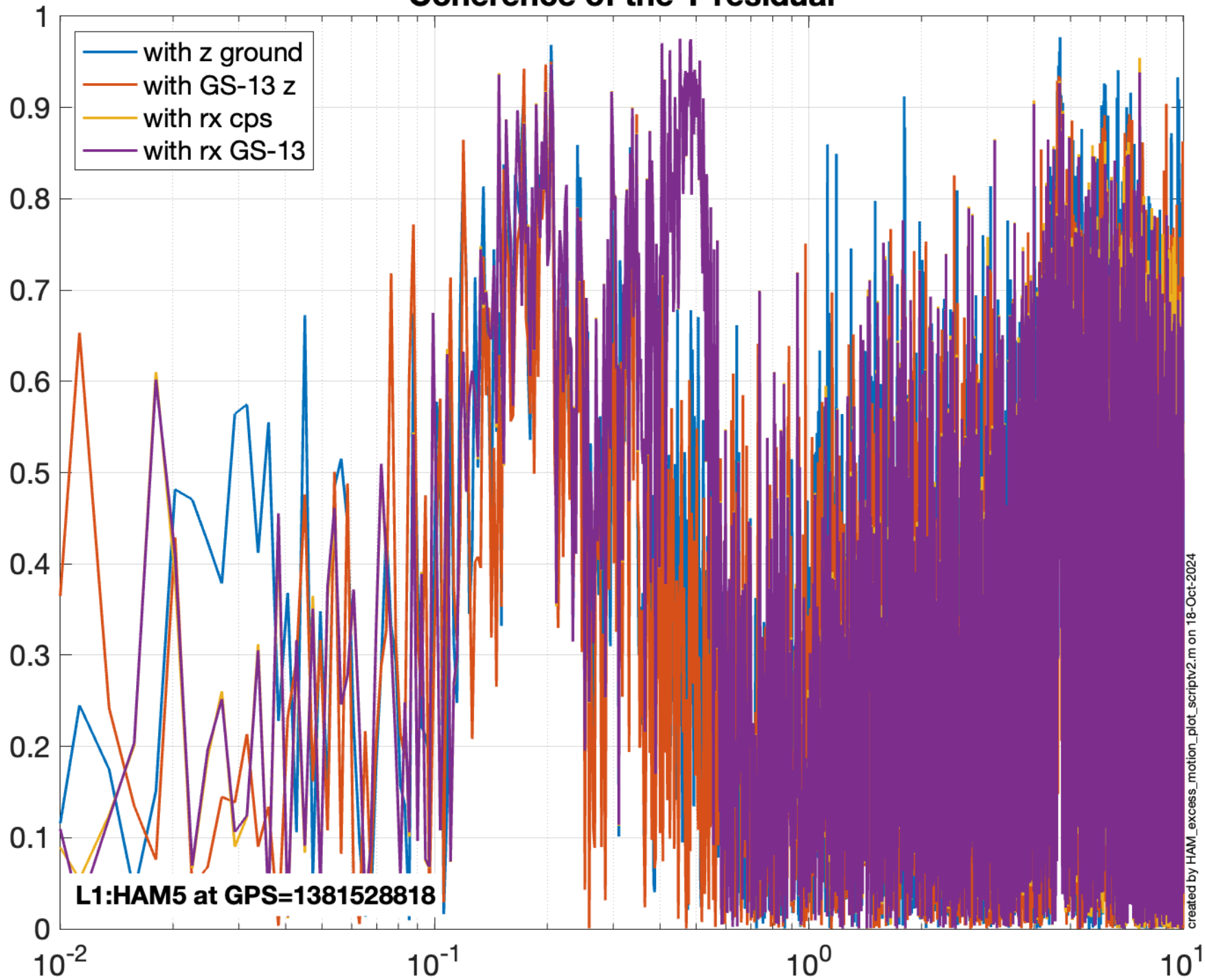
# ASD of displacement, Y



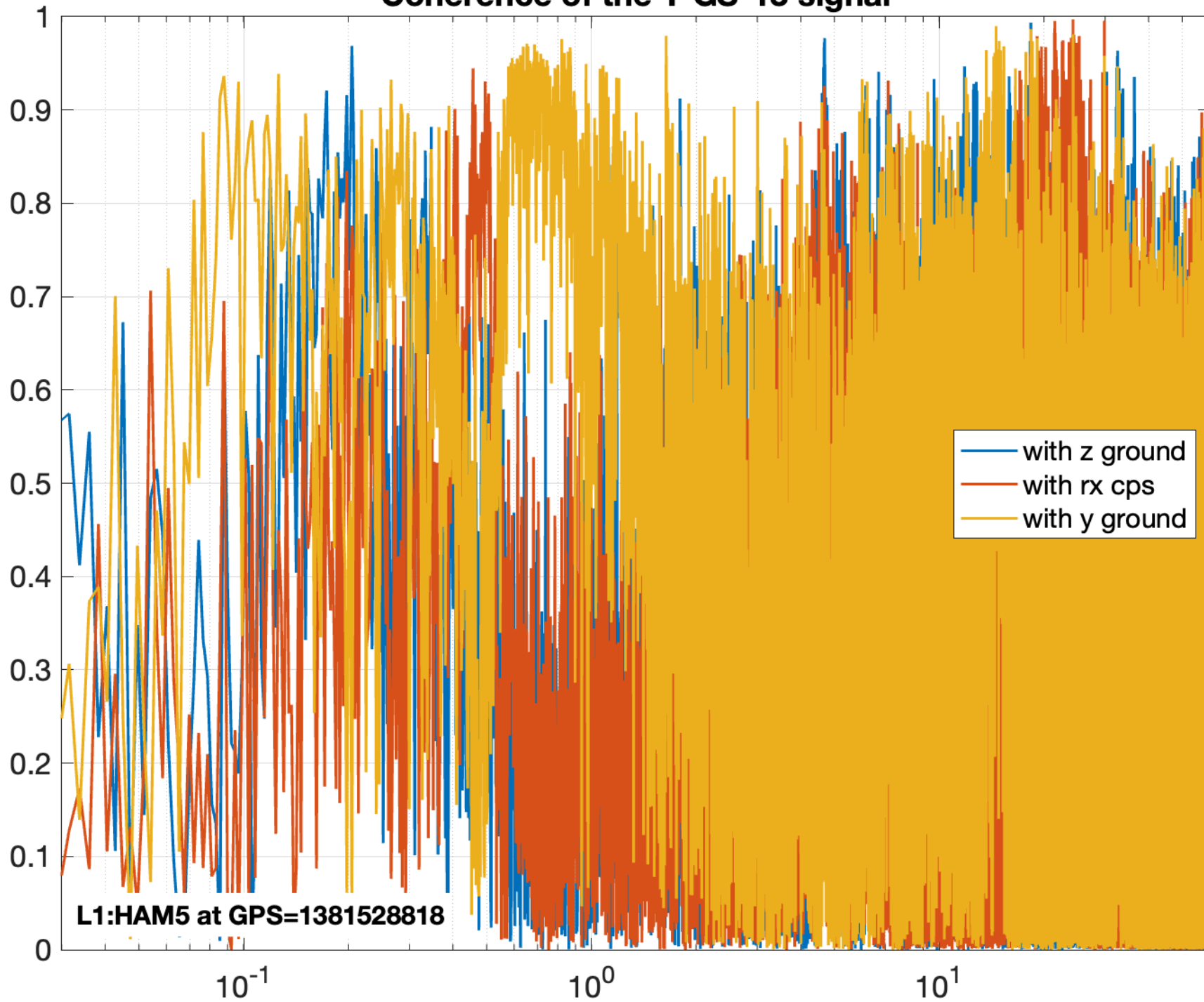
L1:HAM5 at GPS=1381528818

created by HAM\_excess\_motion\_plot\_scriptv2.m on 18-Oct-2024

# Coherence of the Y residual

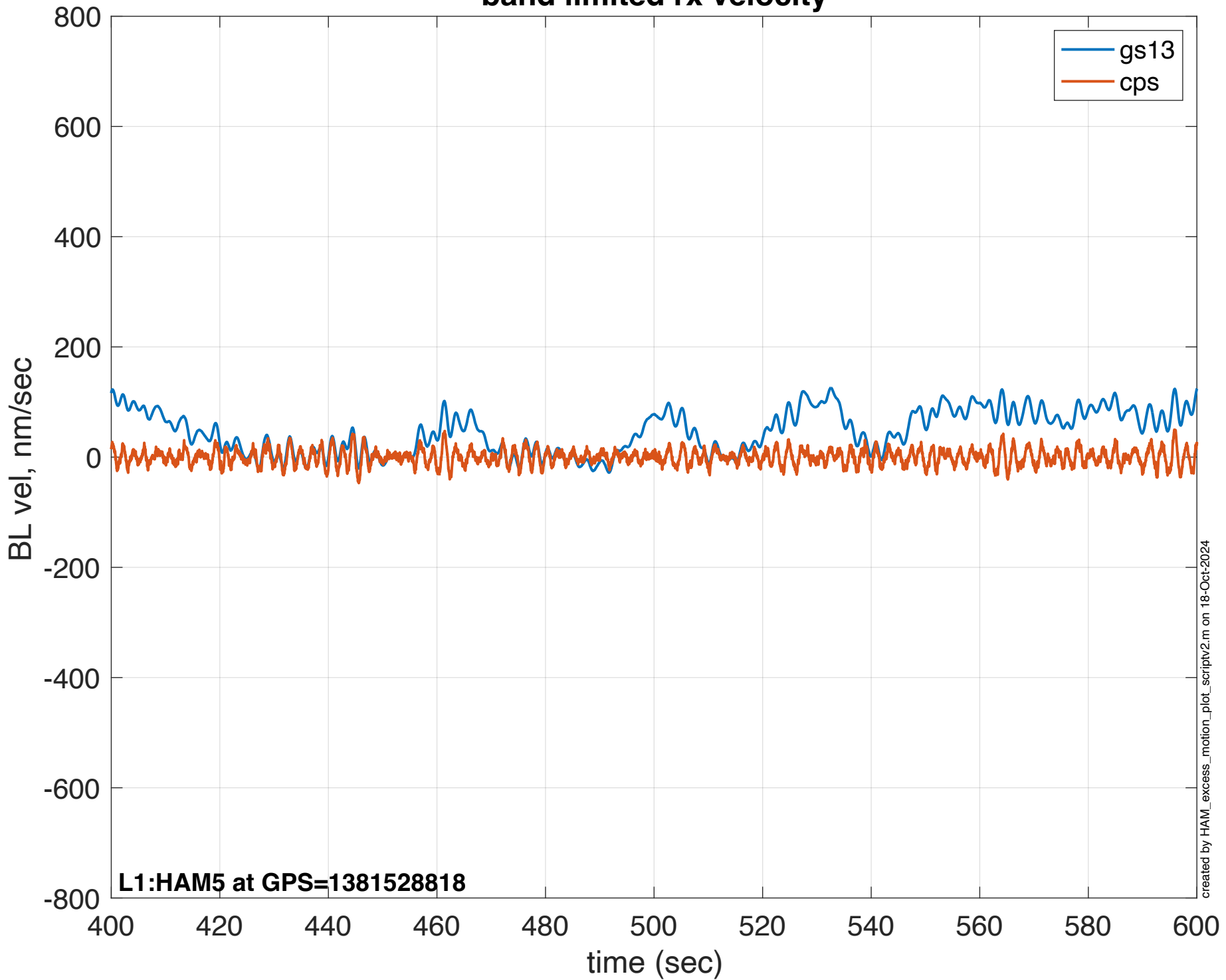


# Coherence of the Y GS-13 signal





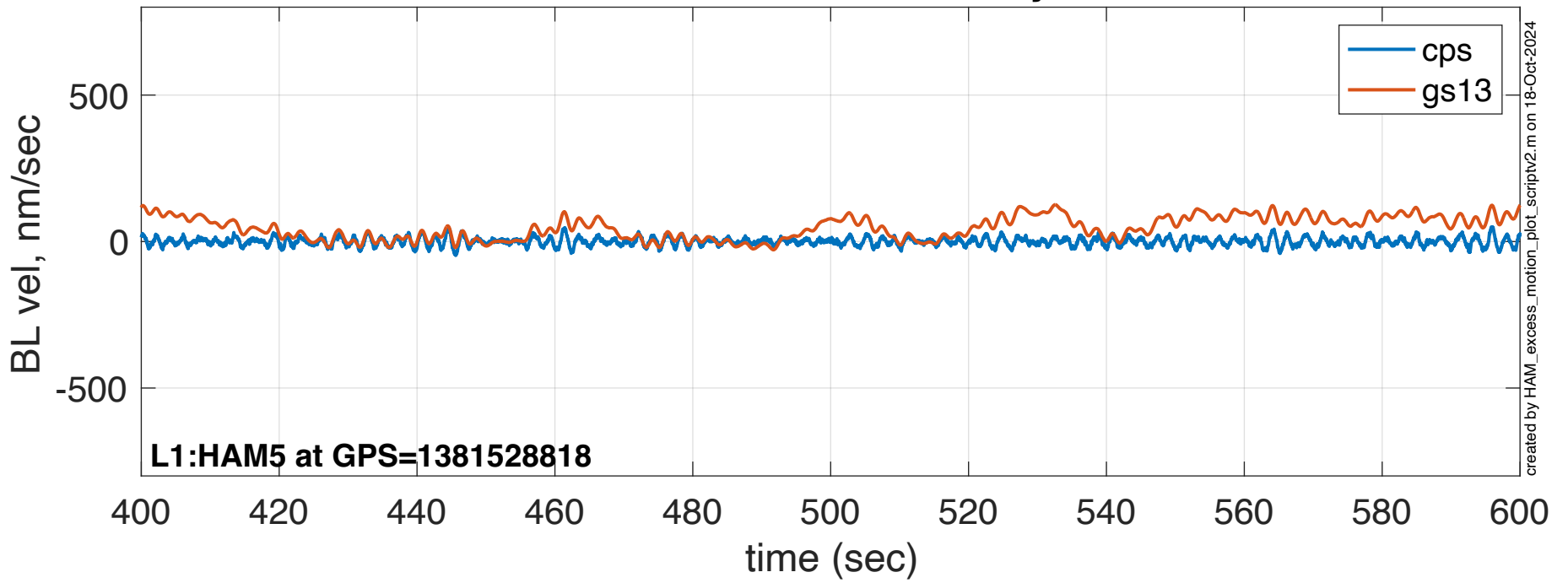
# band limited rx velocity



L1:HAM5 at GPS=1381528818

created by HAM\_excess\_motion\_plot\_scriptv2.m on 18-Oct-2024

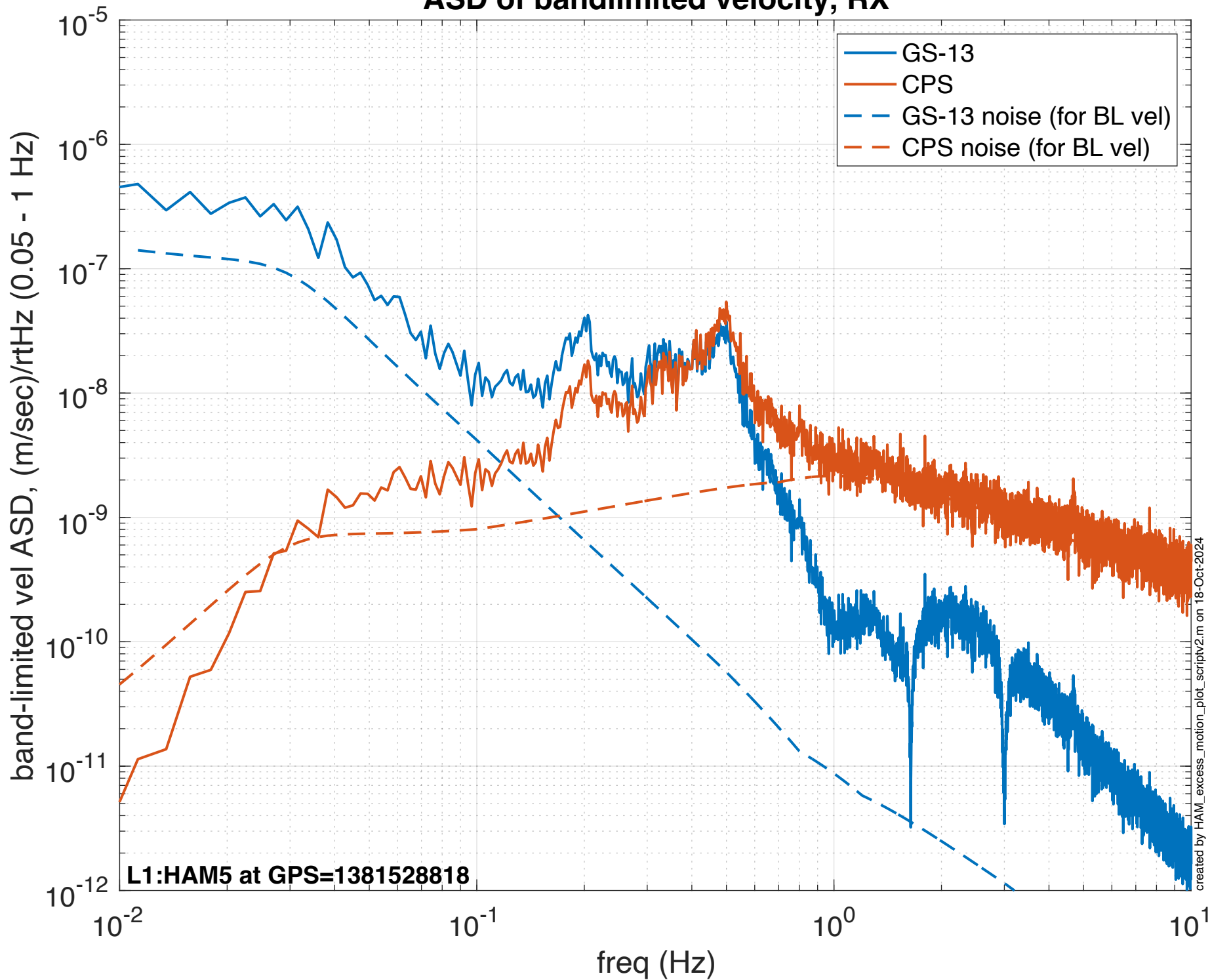
# band limited rx velocity



L1:HAM5 at GPS=1381528818

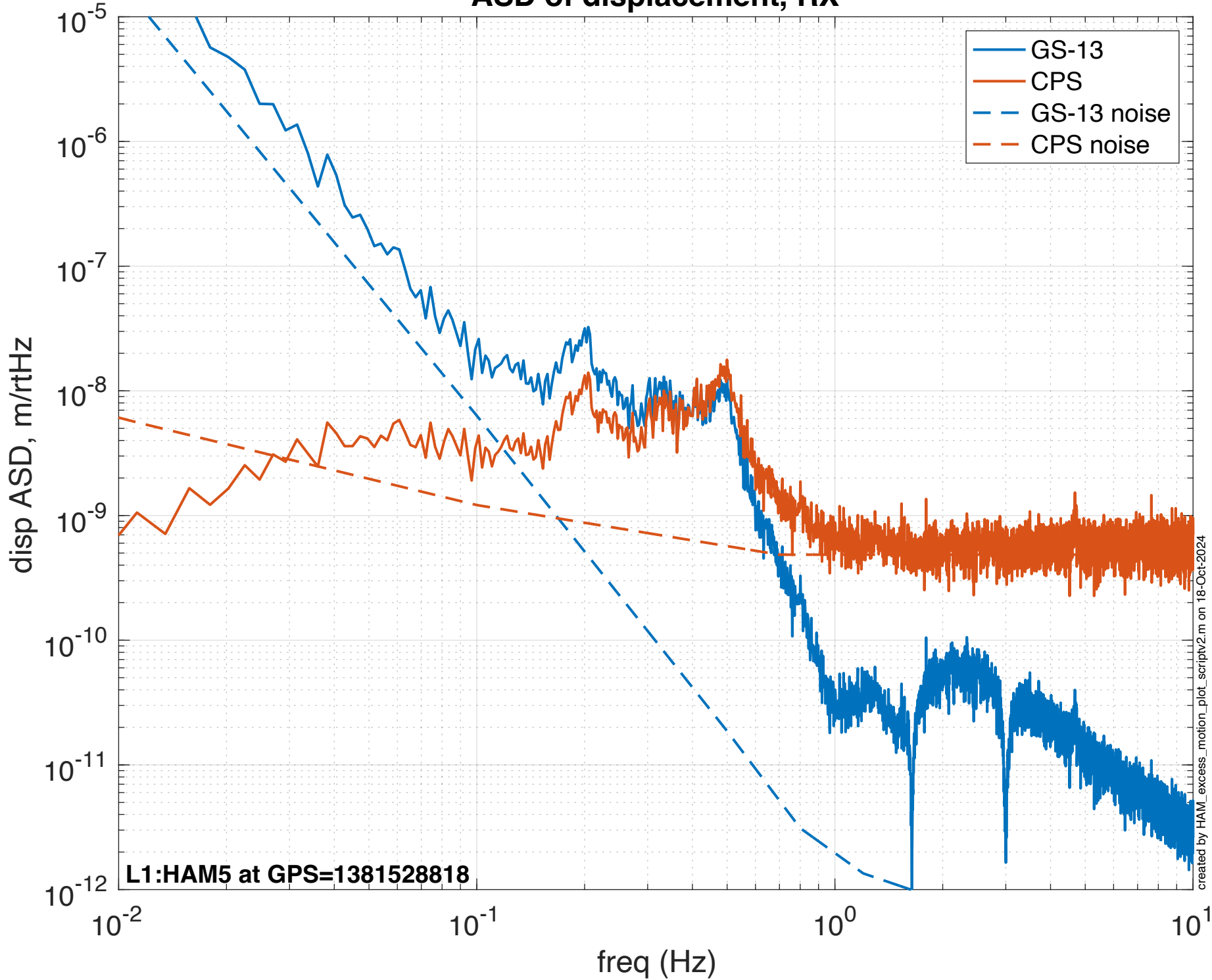
created by HAM\_excess\_motion\_plot\_scriptv2.m on 18-Oct-2024

# ASD of bandlimited velocity, RX

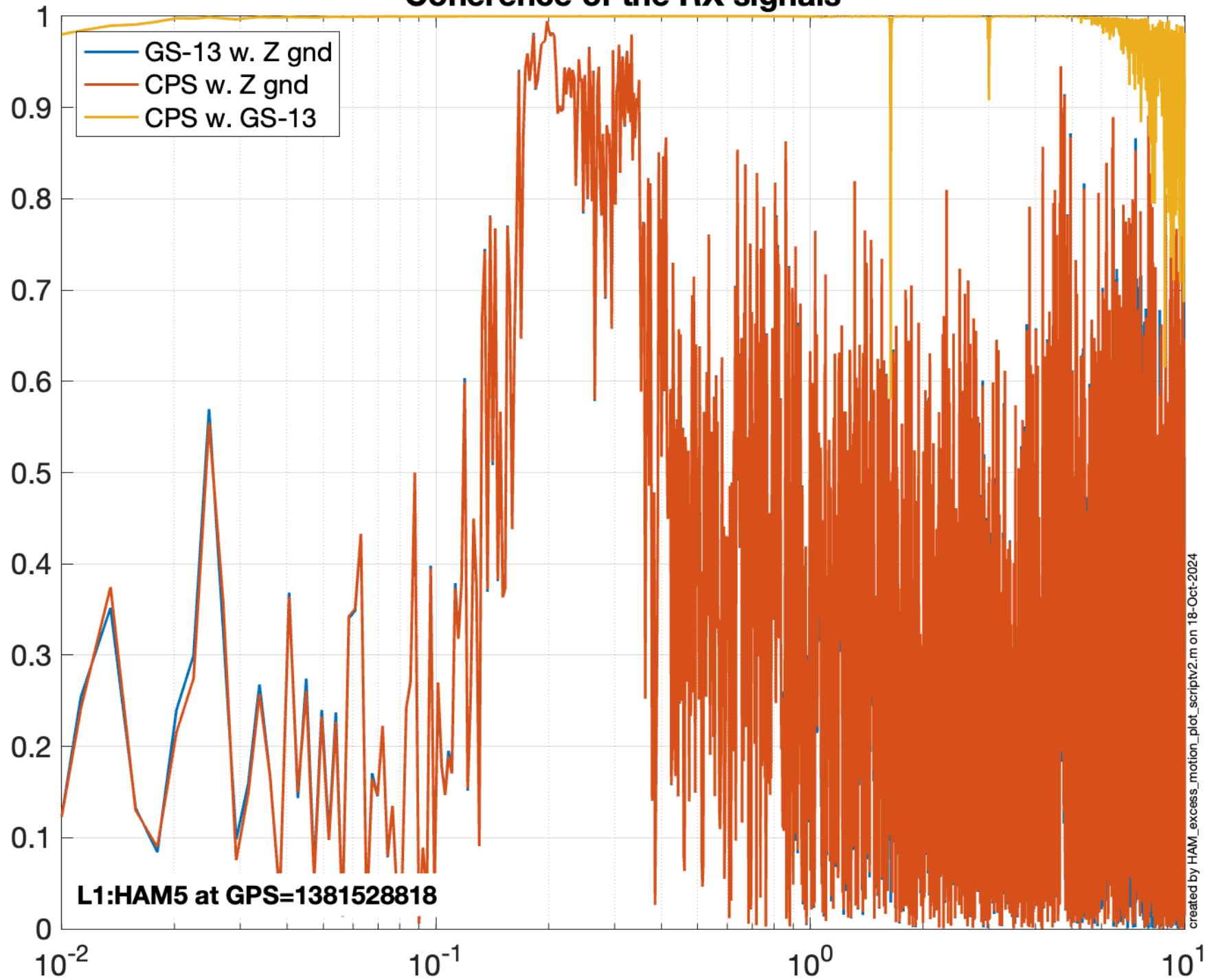


created by HAM\_excess\_motion\_plot\_scriptv2.m on 18-Oct-2024

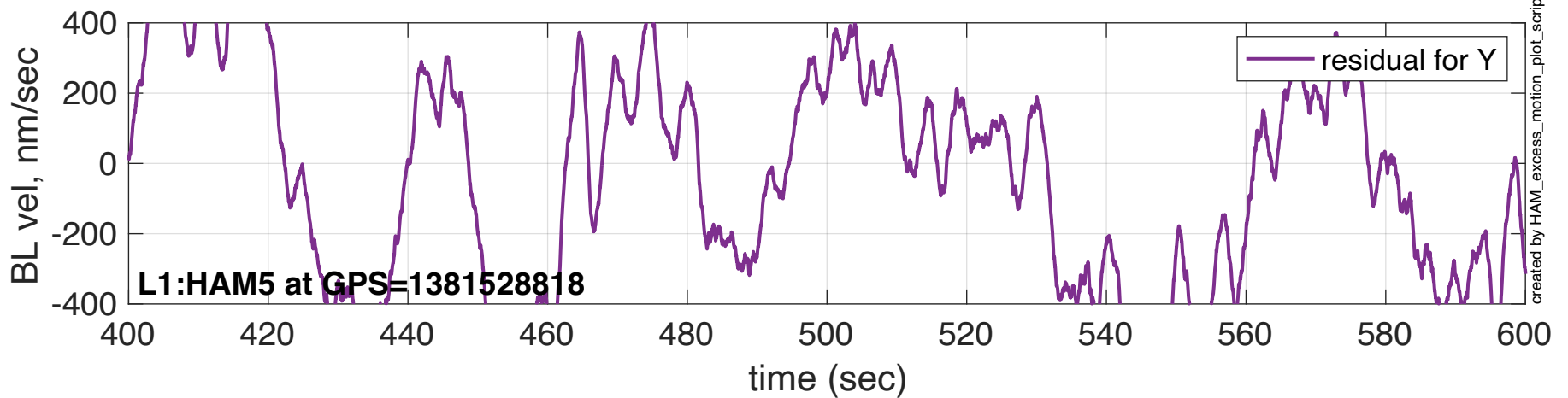
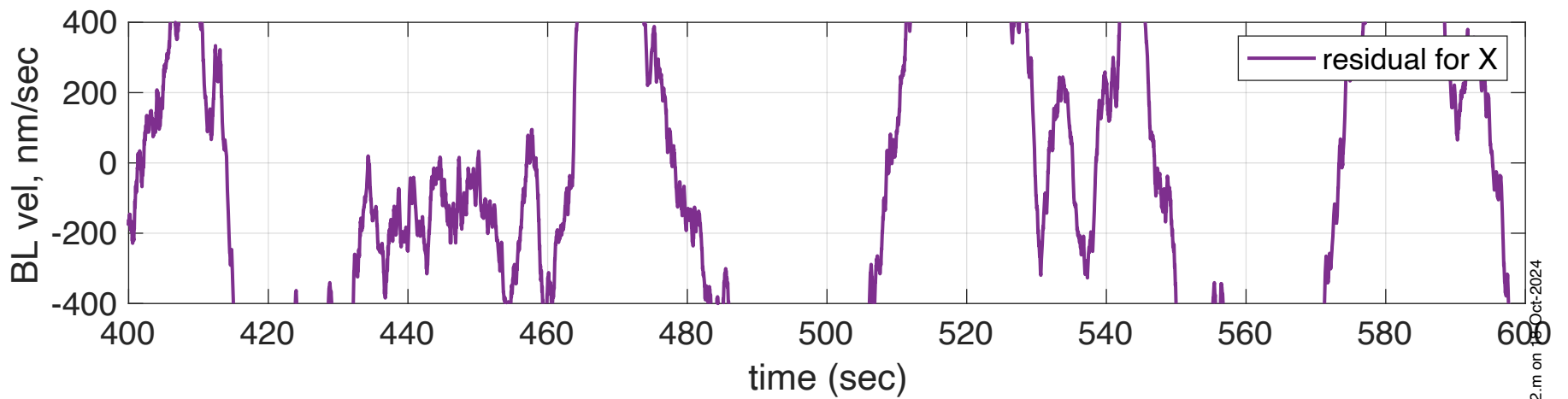
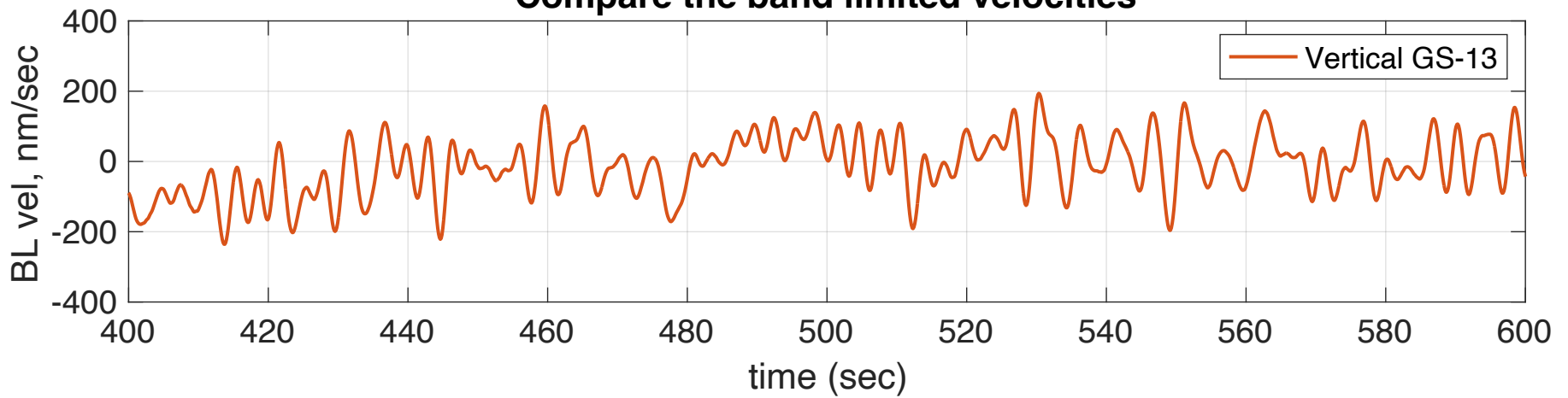
# ASD of displacement, RX



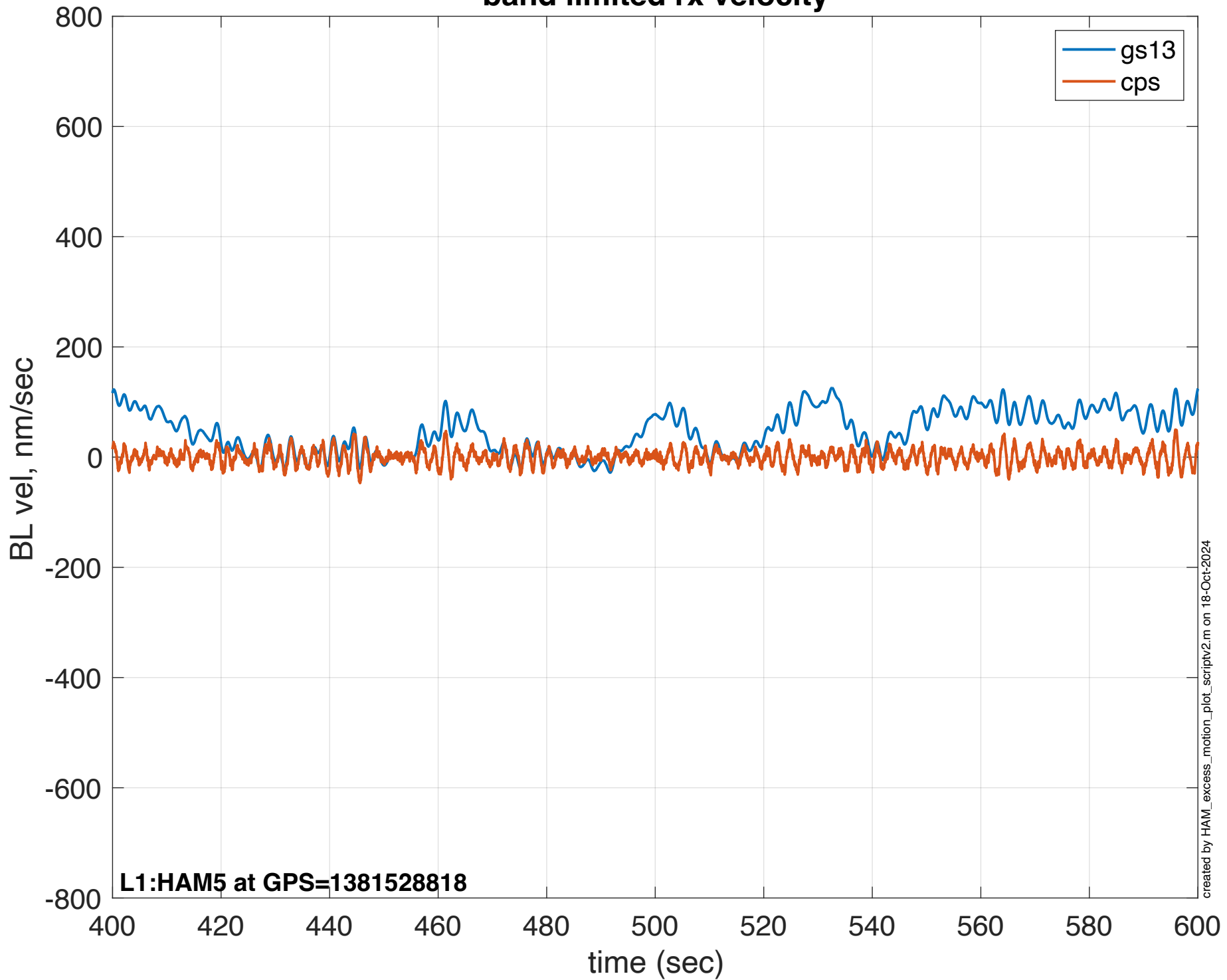
# Coherence of the RX signals



# Compare the band limited velocities



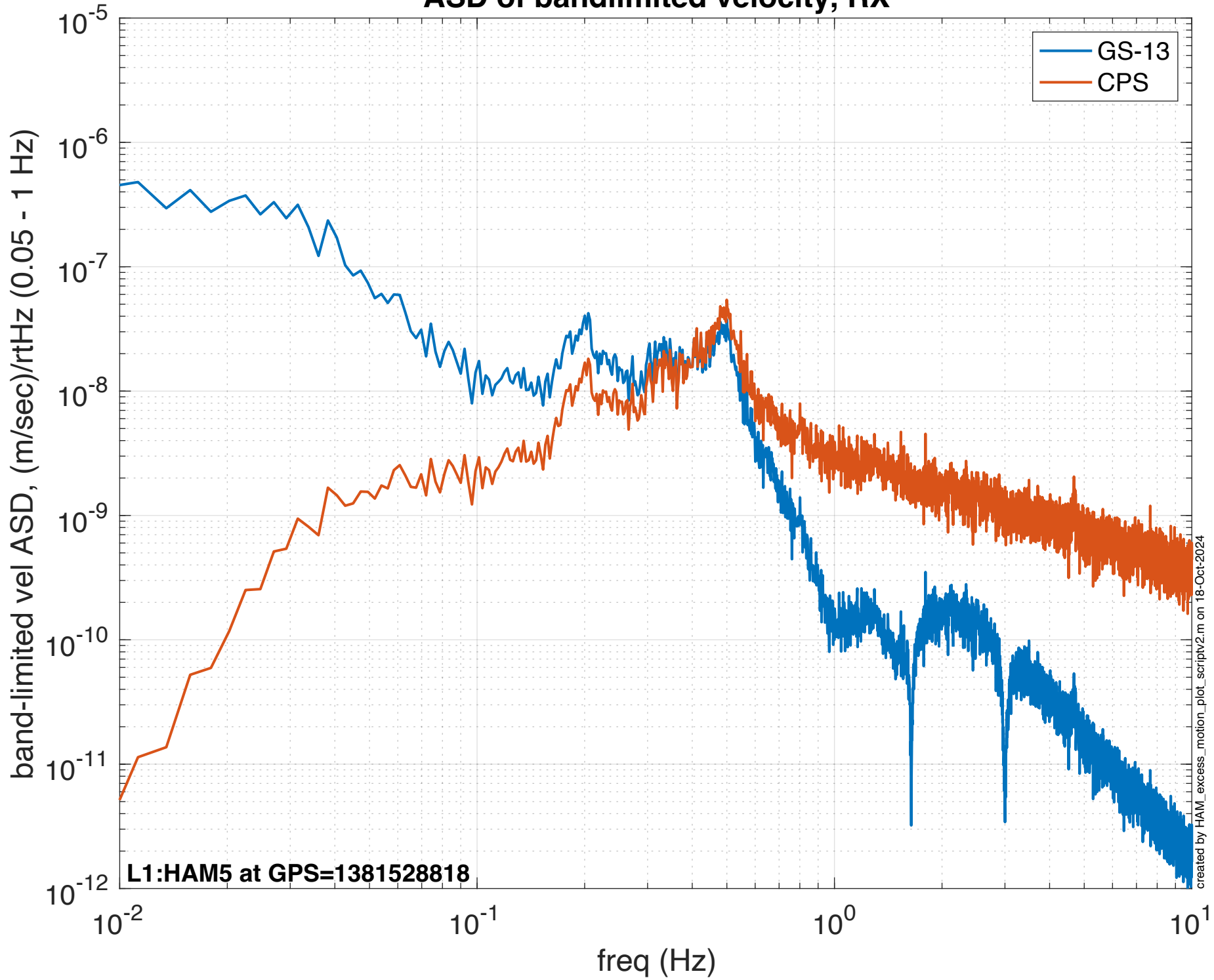
# band limited rx velocity



L1:HAM5 at GPS=1381528818

created by HAM\_excess\_motion\_plot\_scriptv2.m on 18-Oct-2024

# ASD of bandlimited velocity, RX

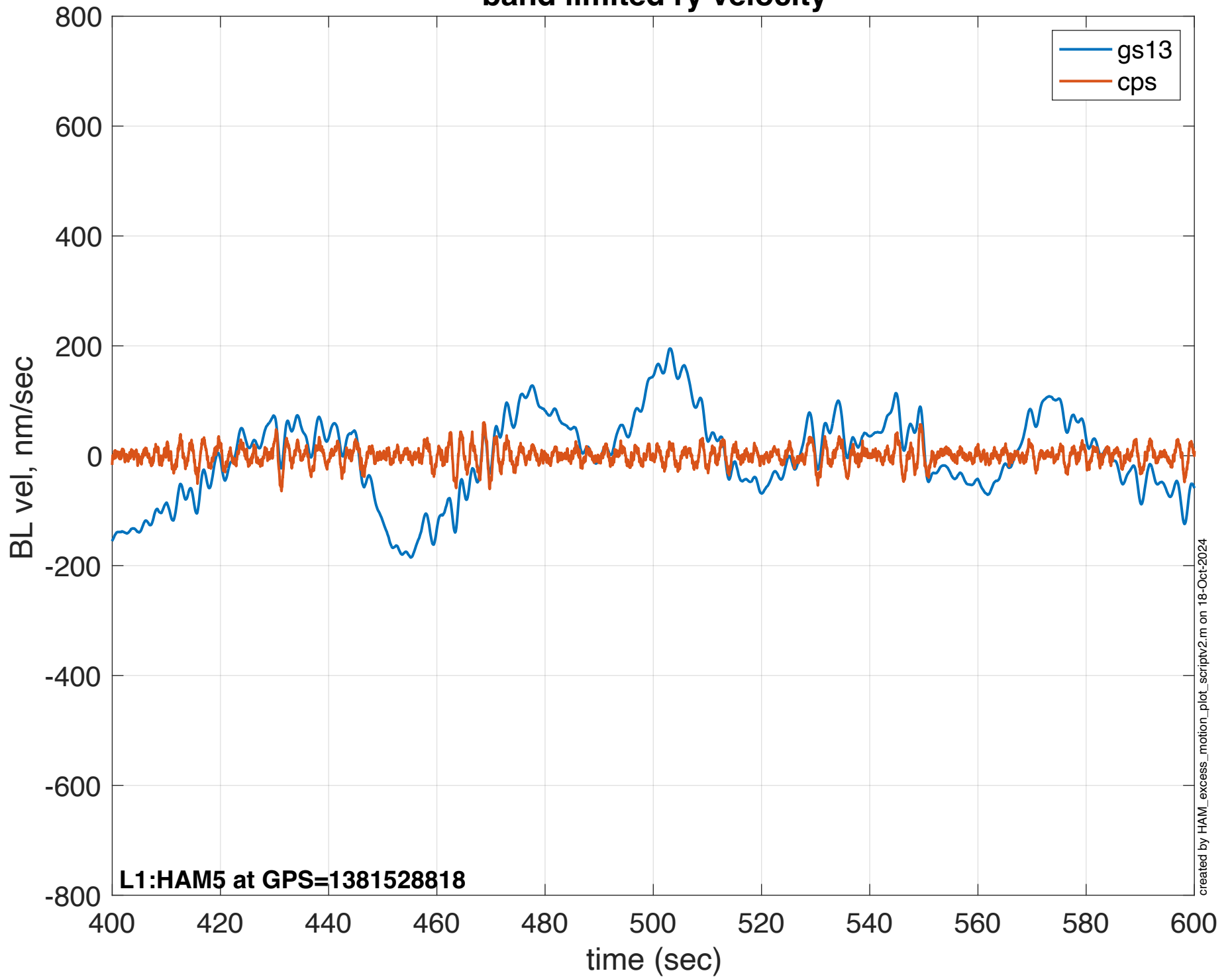


L1:HAM5 at GPS=1381528818

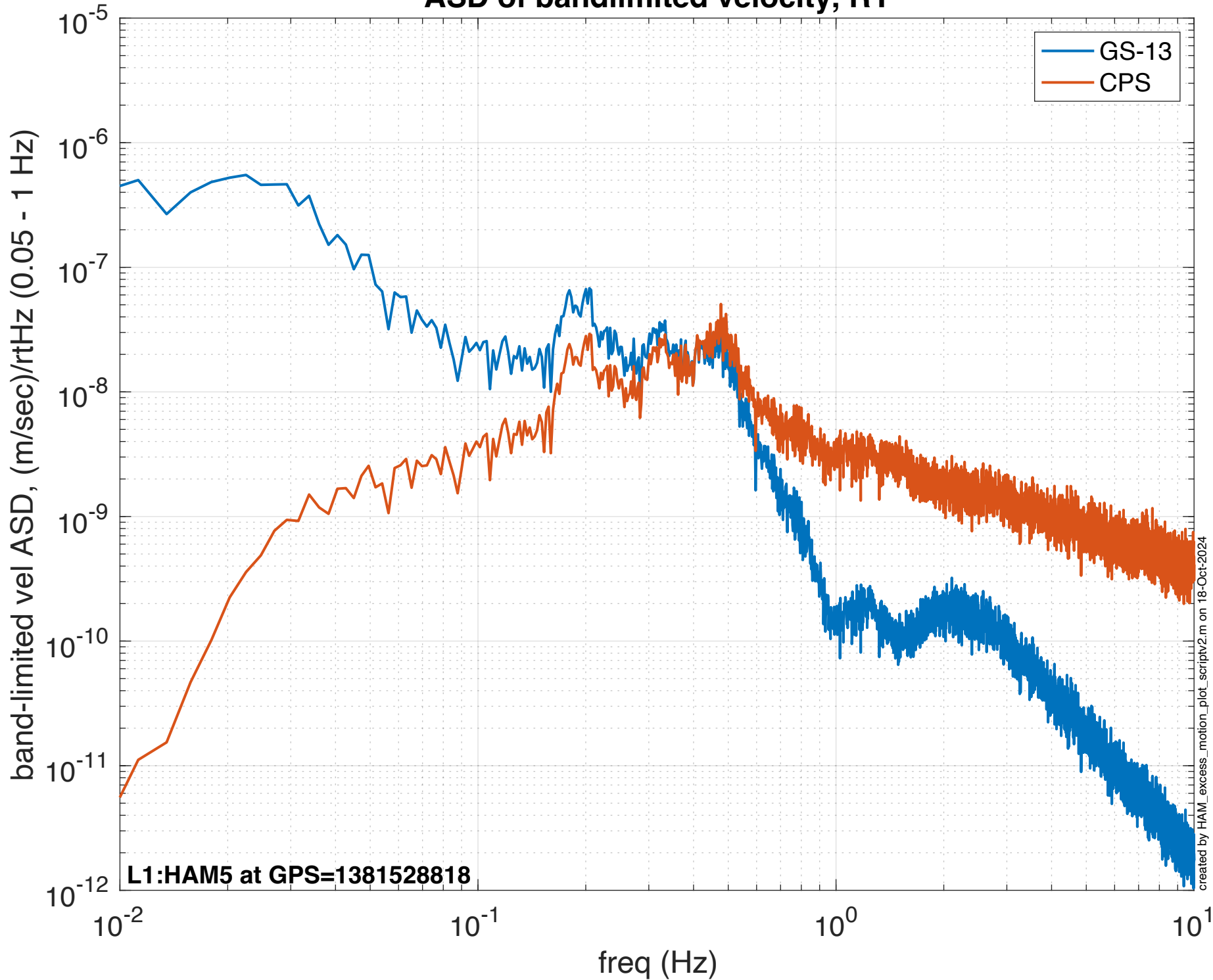
created by HAM\_excess\_motion\_plot\_scriptv2.m on 18-Oct-2024



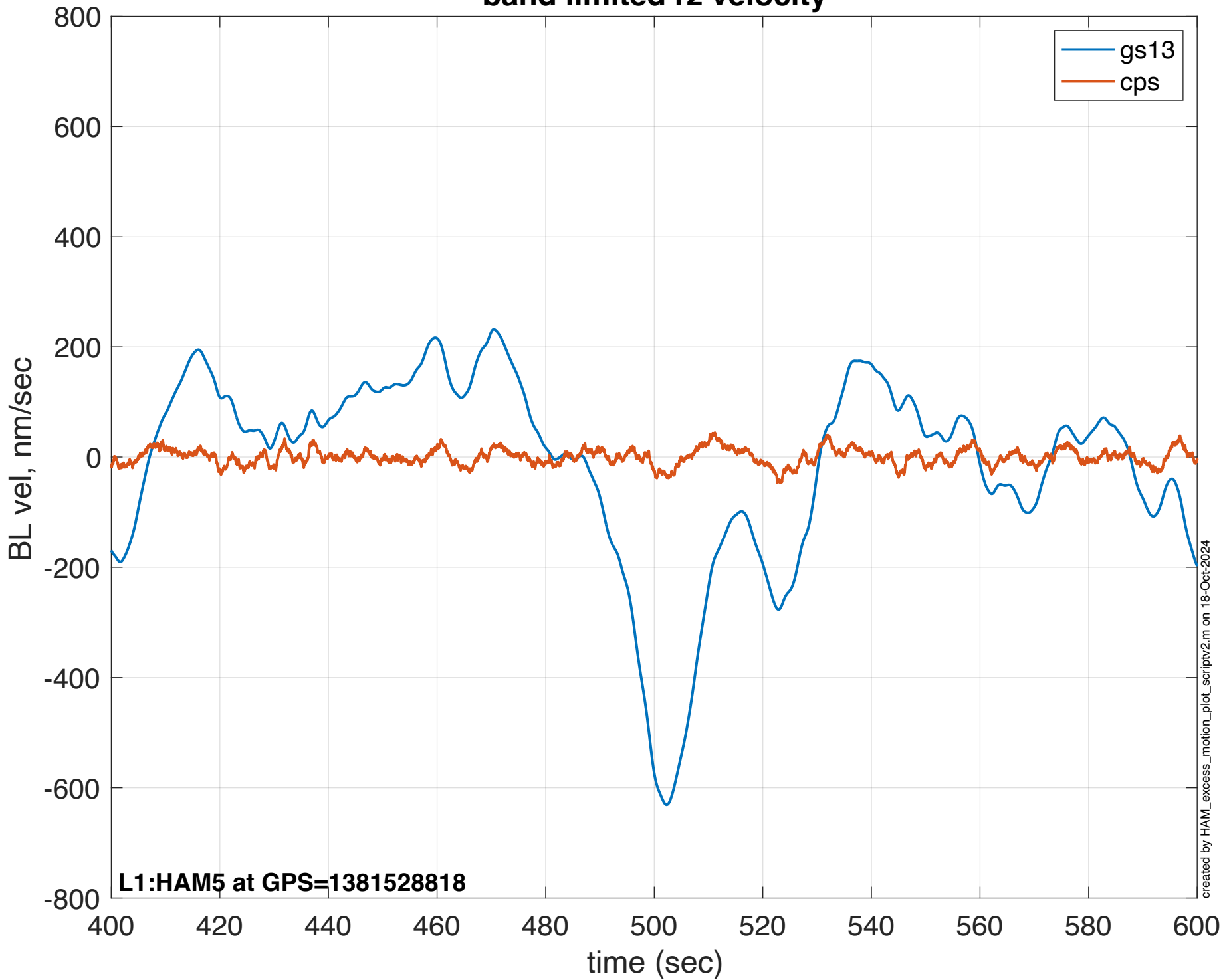
# band limited ry velocity



# ASD of bandlimited velocity, RY



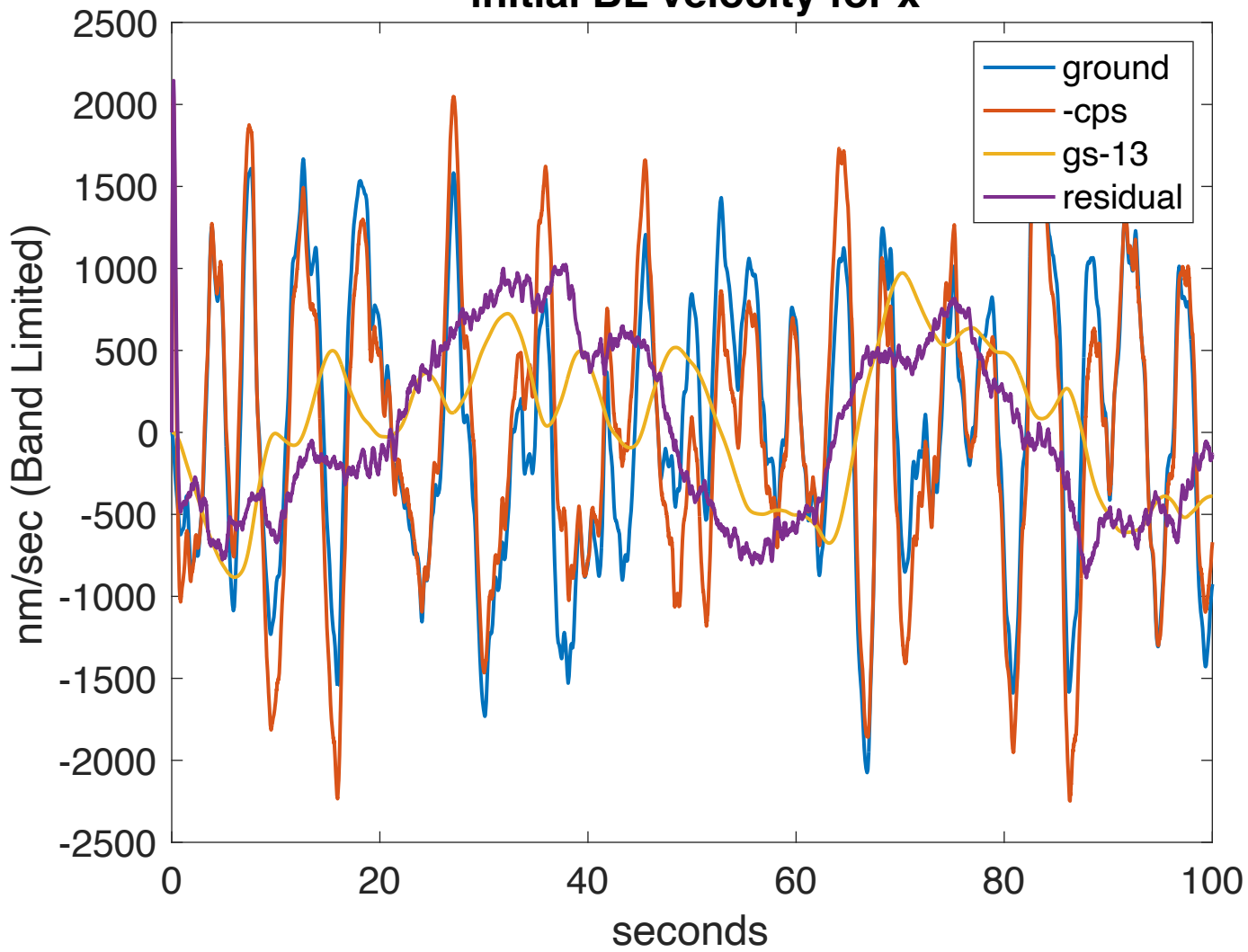
# band limited rz velocity



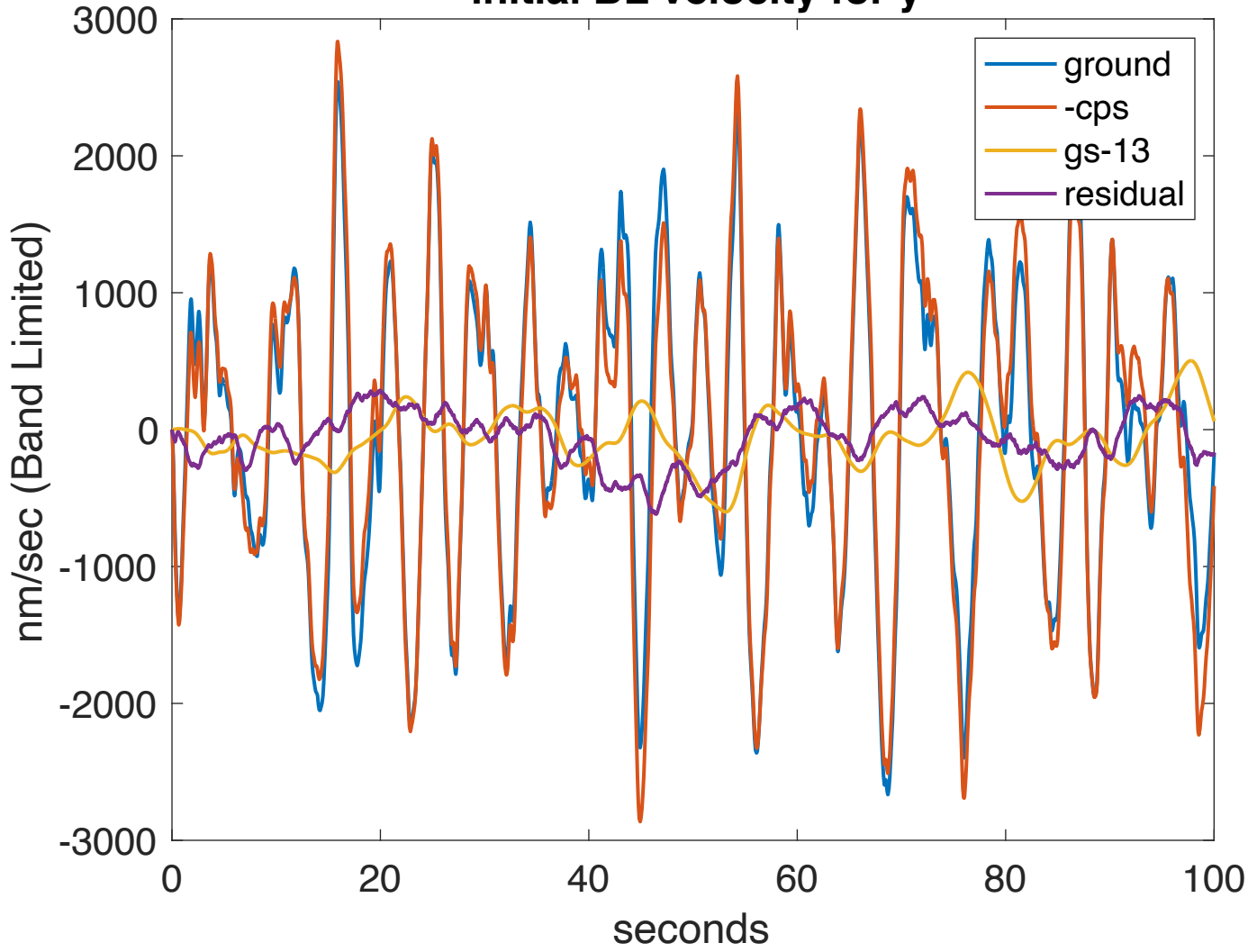
# ASD of bandlimited velocity, RZ



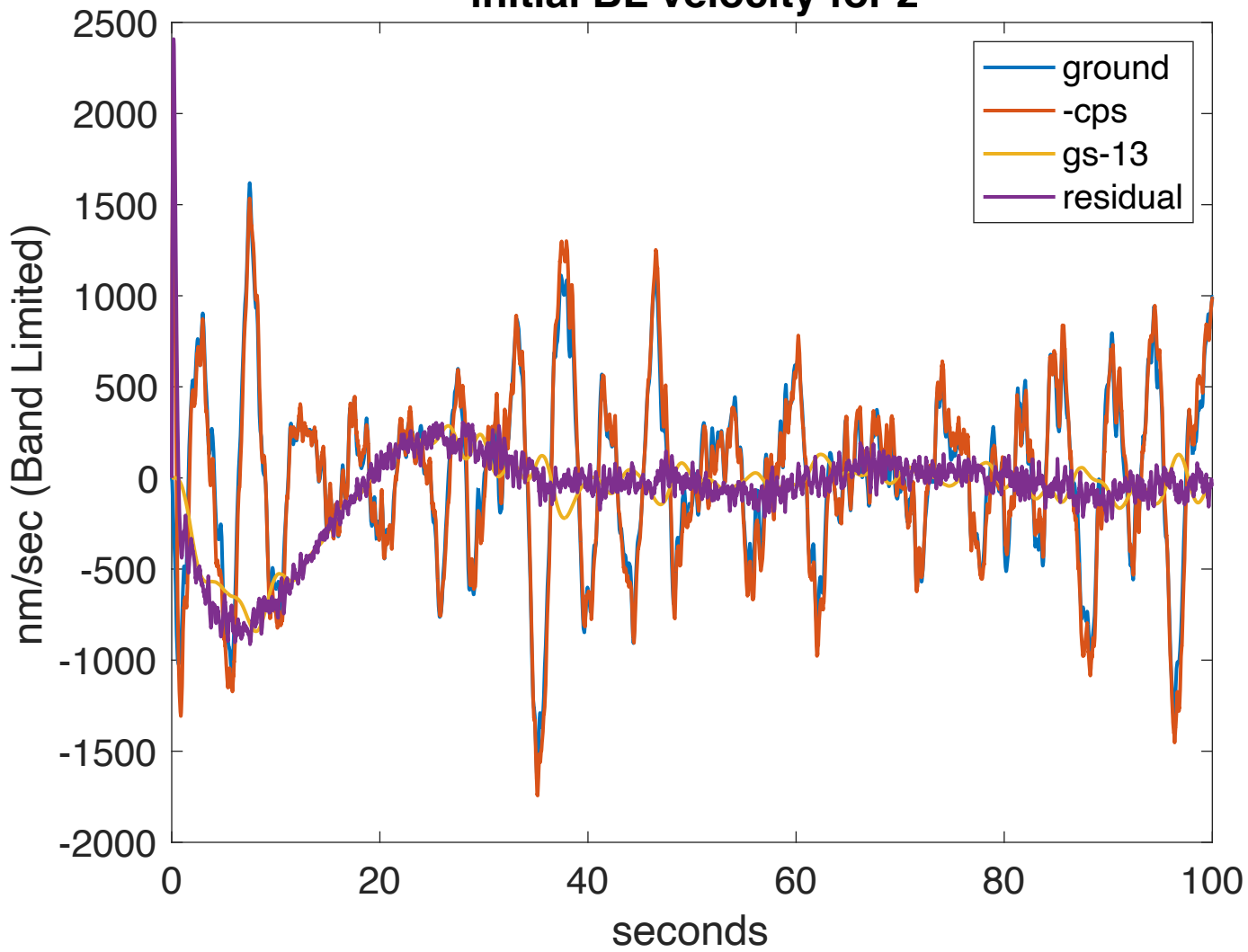
initial BL velocity for x

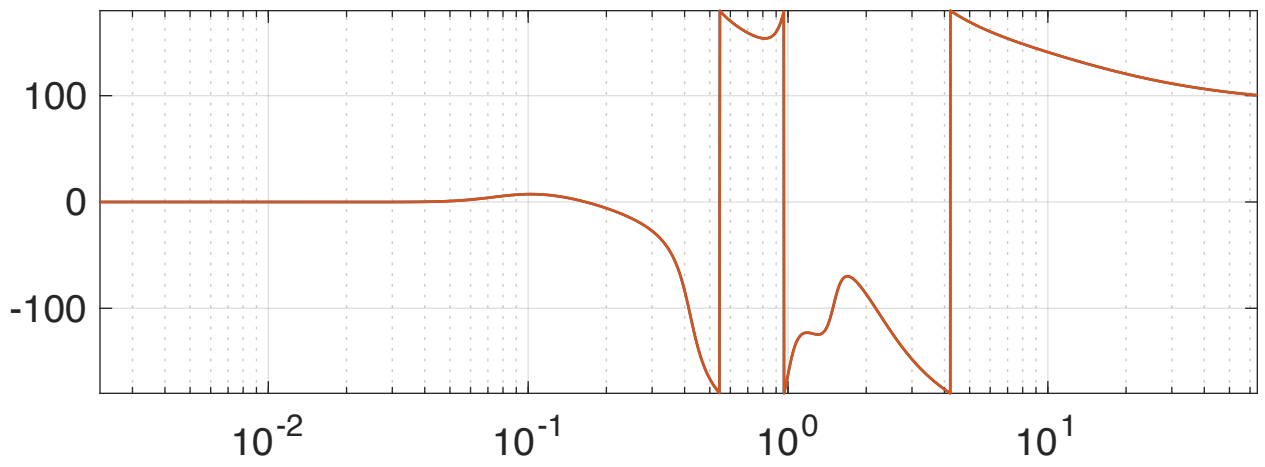
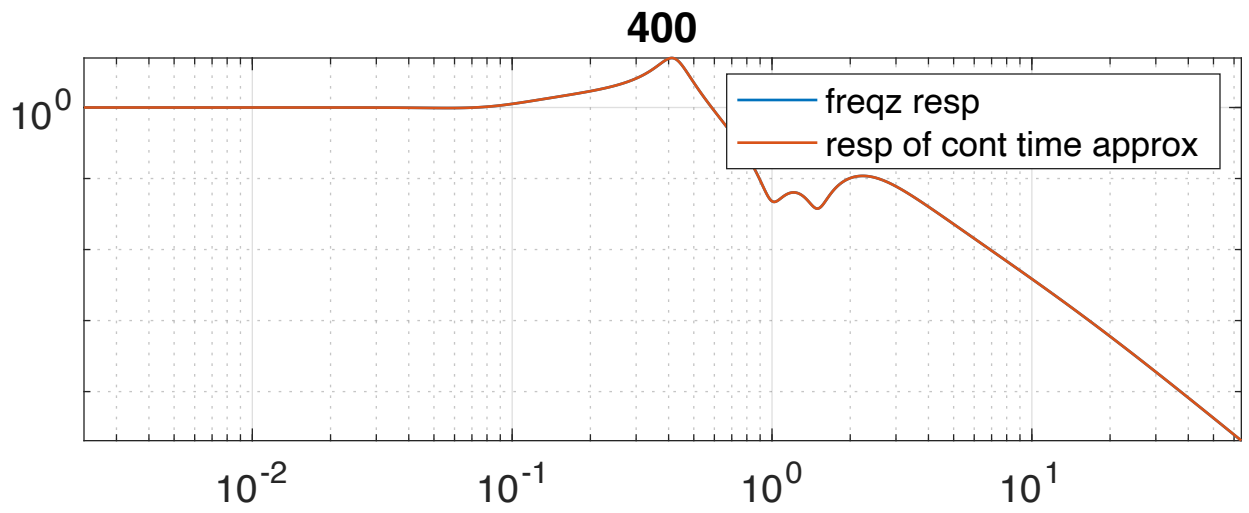


initial BL velocity for y



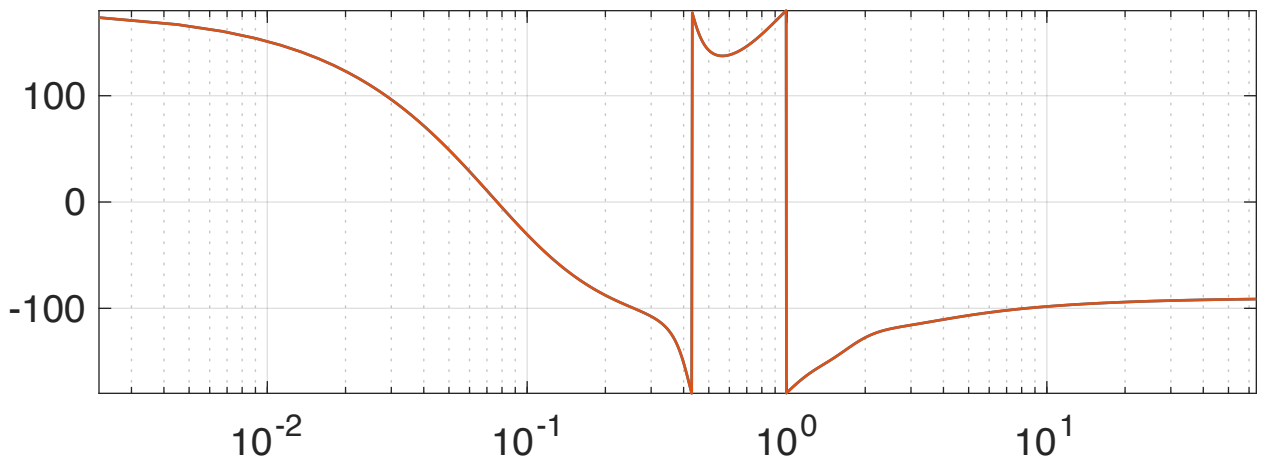
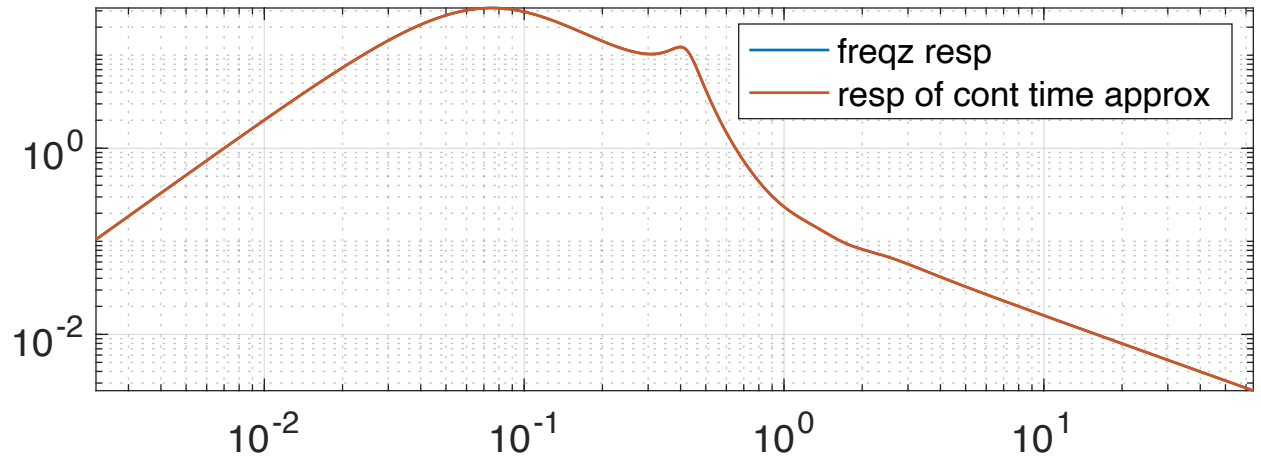
### initial BL velocity for z



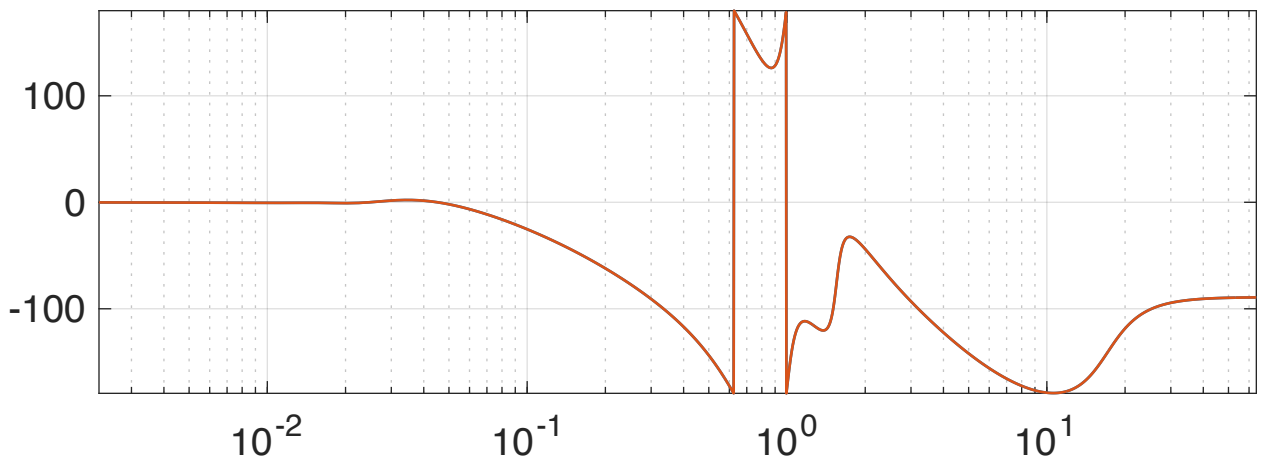
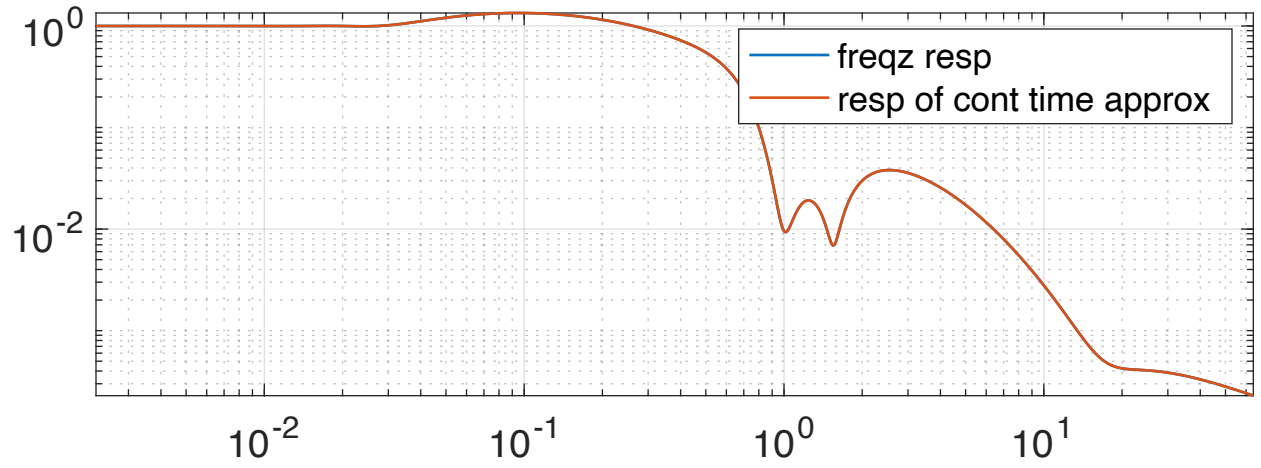




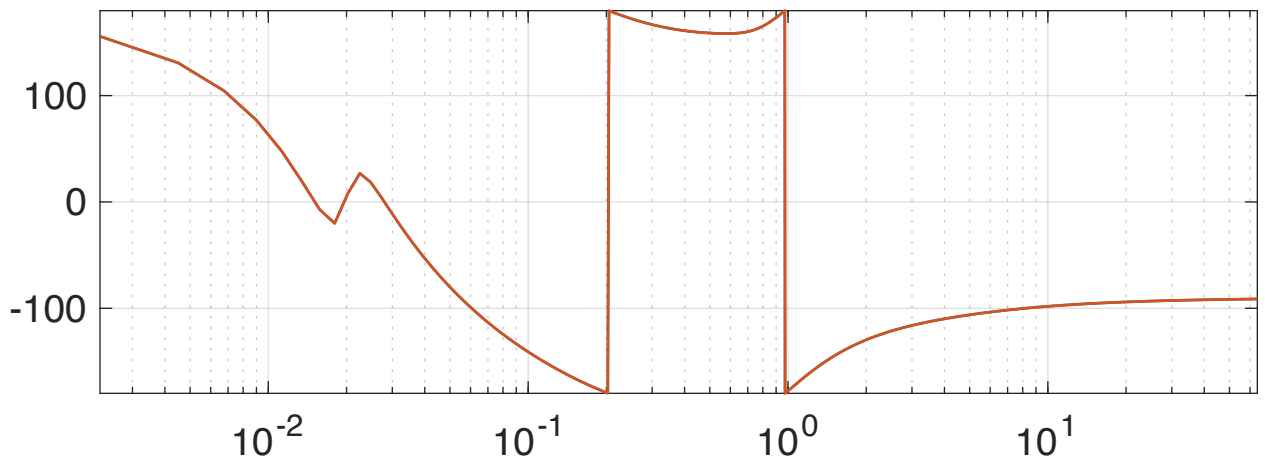
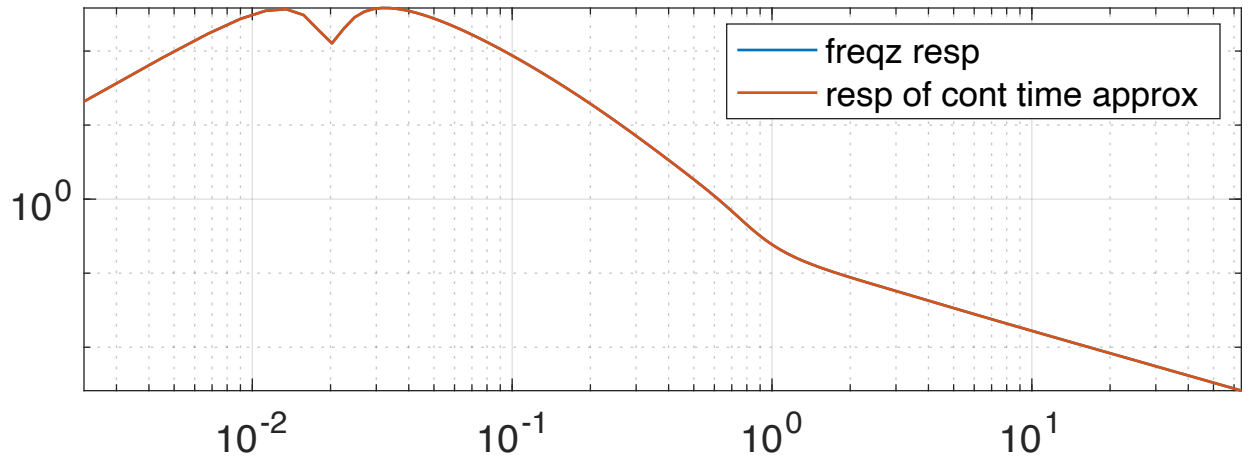
400



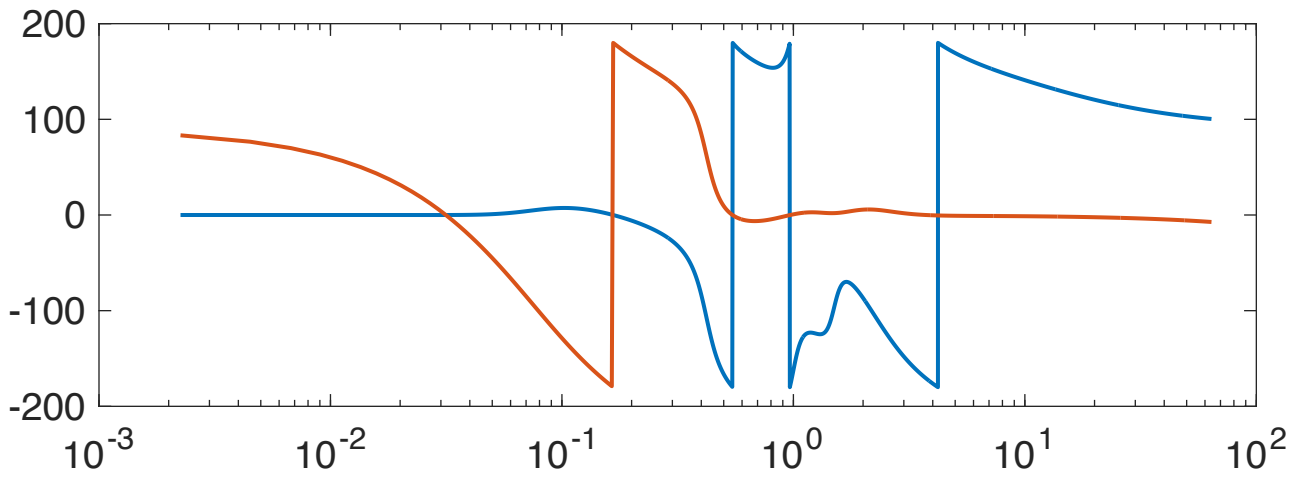
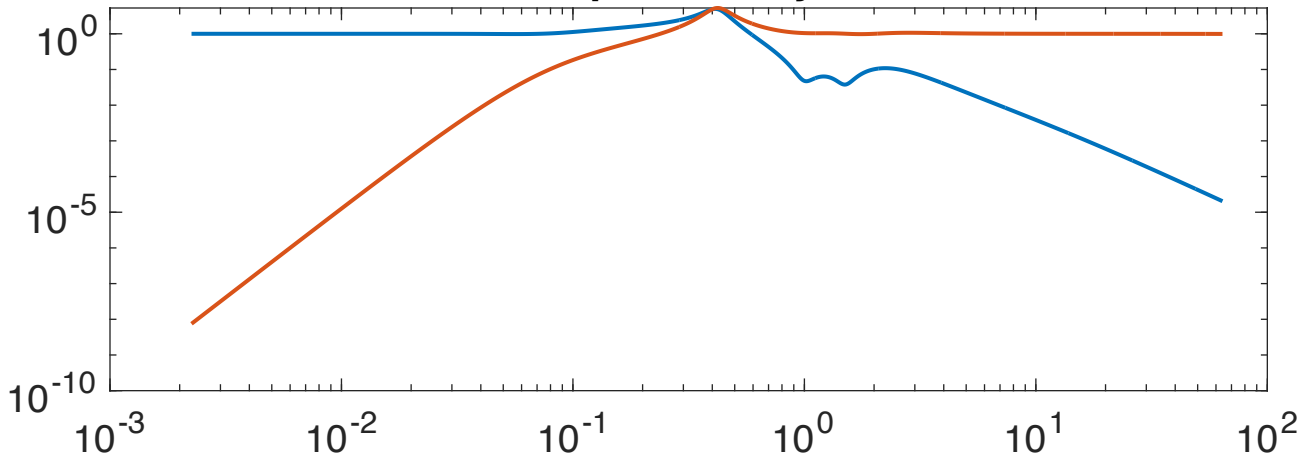
**250**



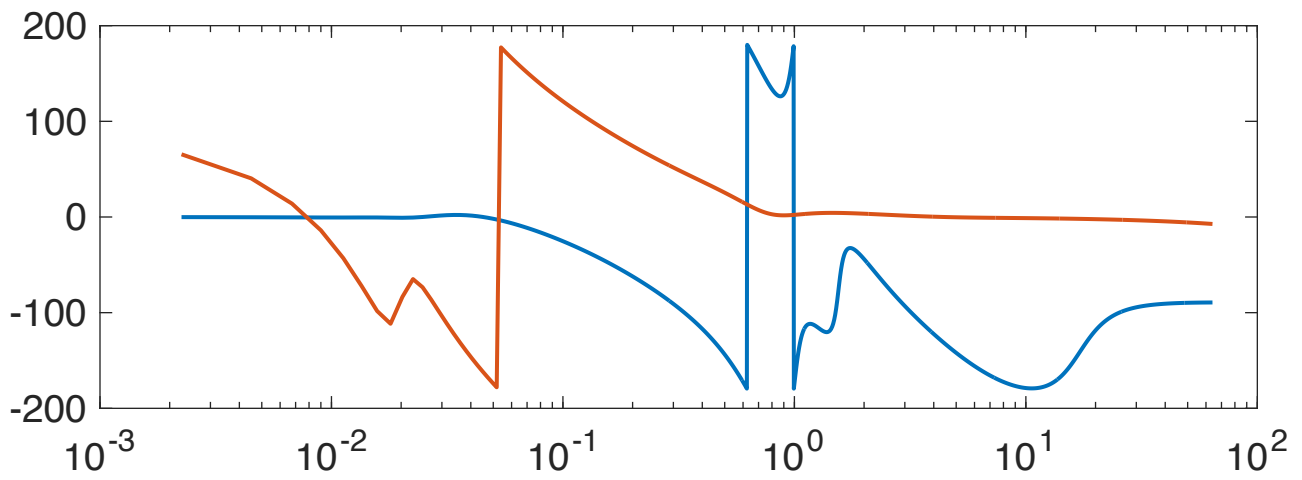
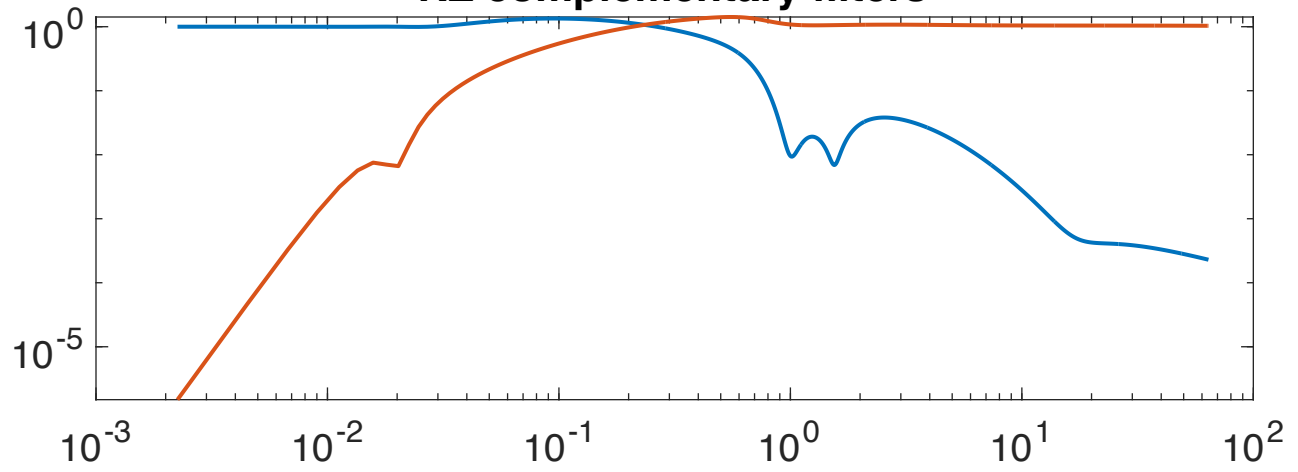
250



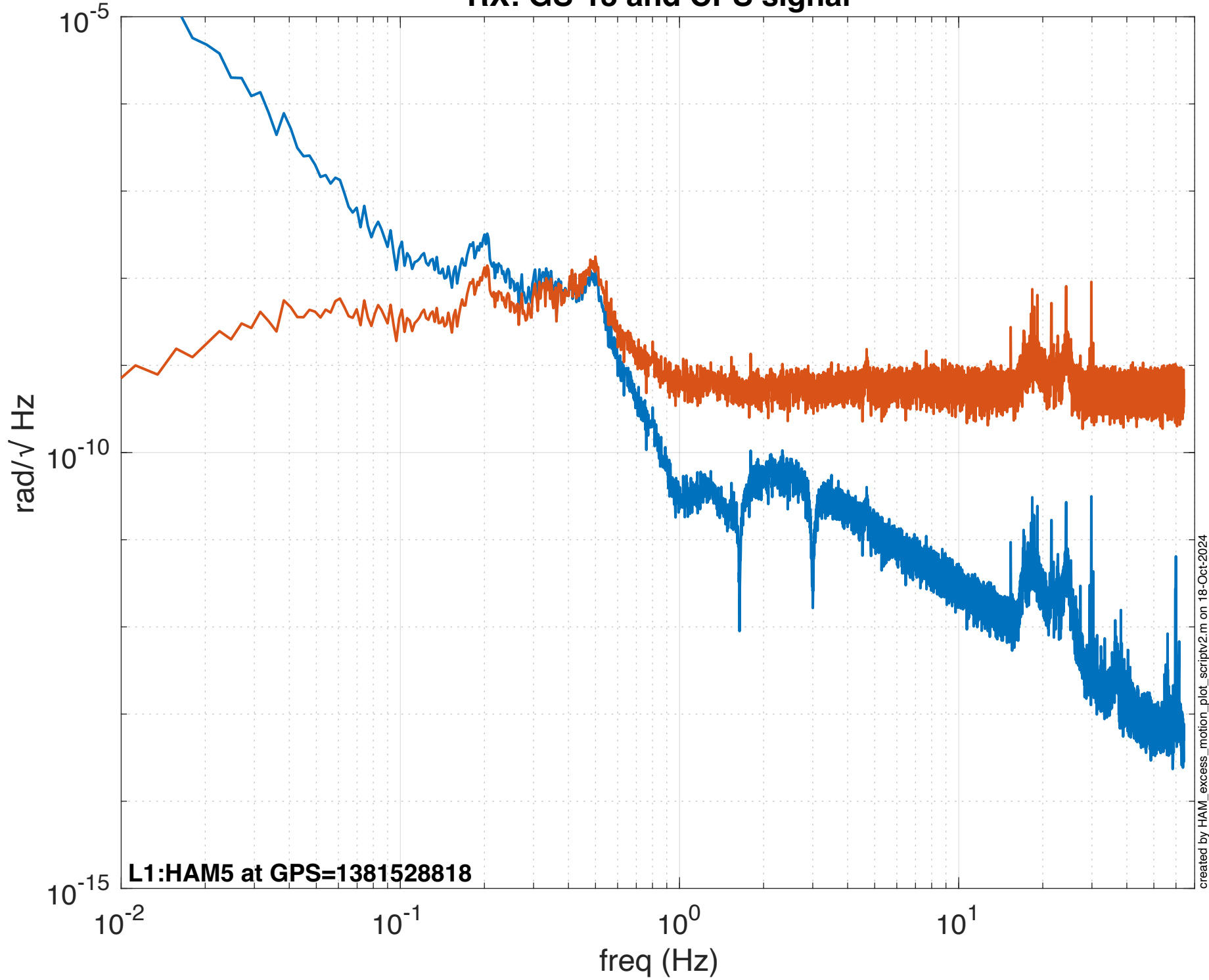
### RX complementary filters



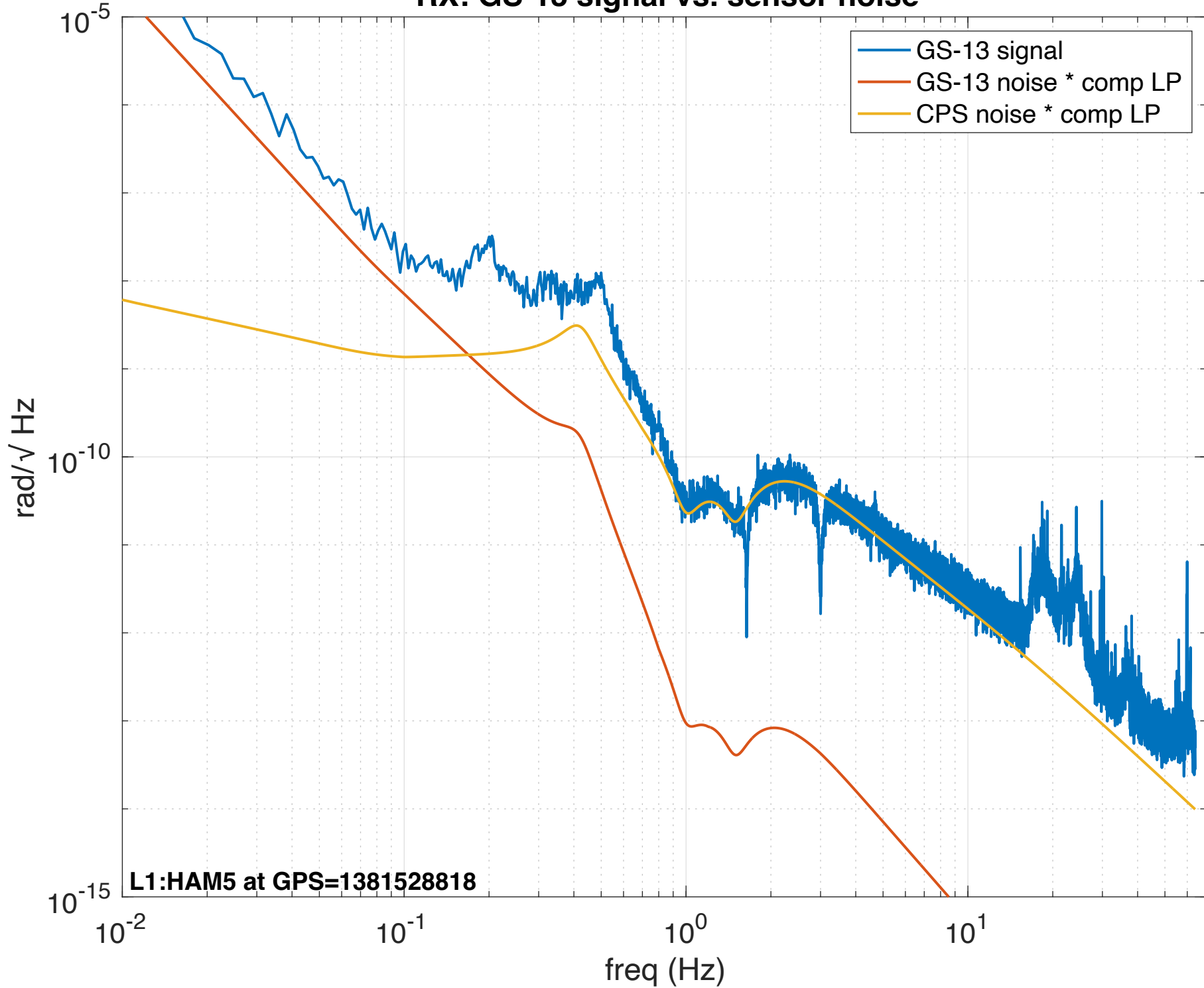
### RZ complementary filters



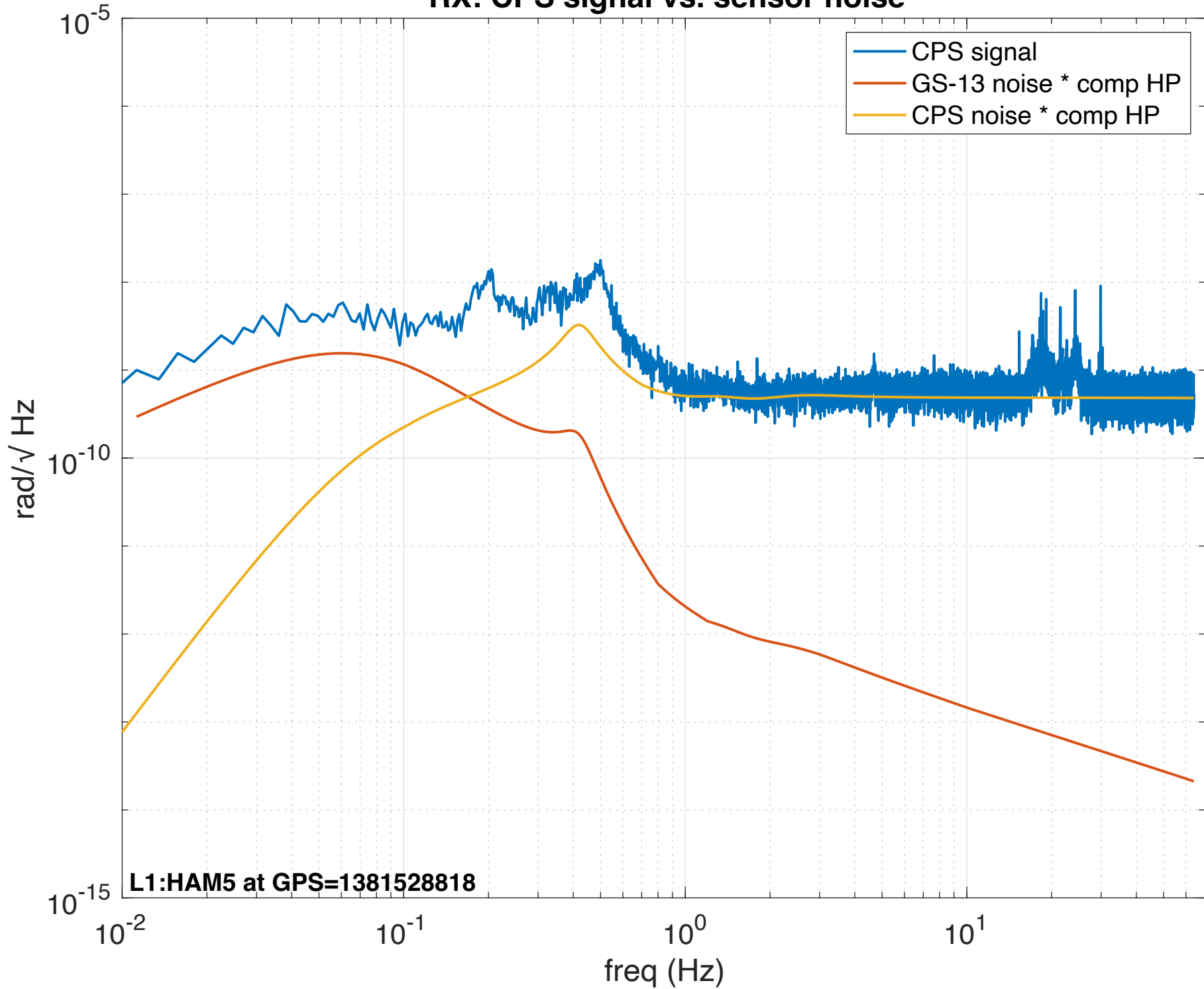
# RX: GS-13 and CPS signal



# RX: GS-13 signal vs. sensor noise



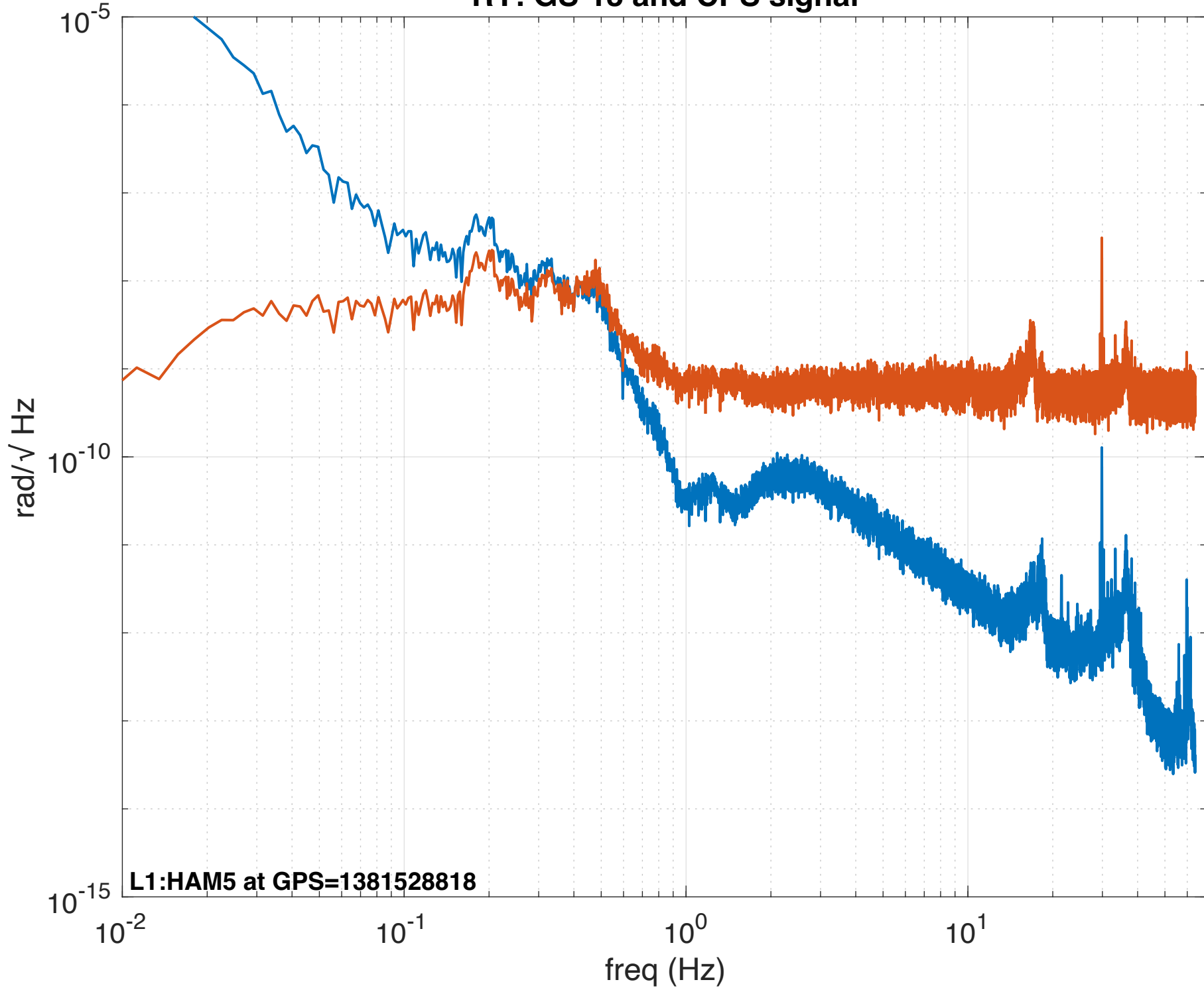
# RX: CPS signal vs. sensor noise



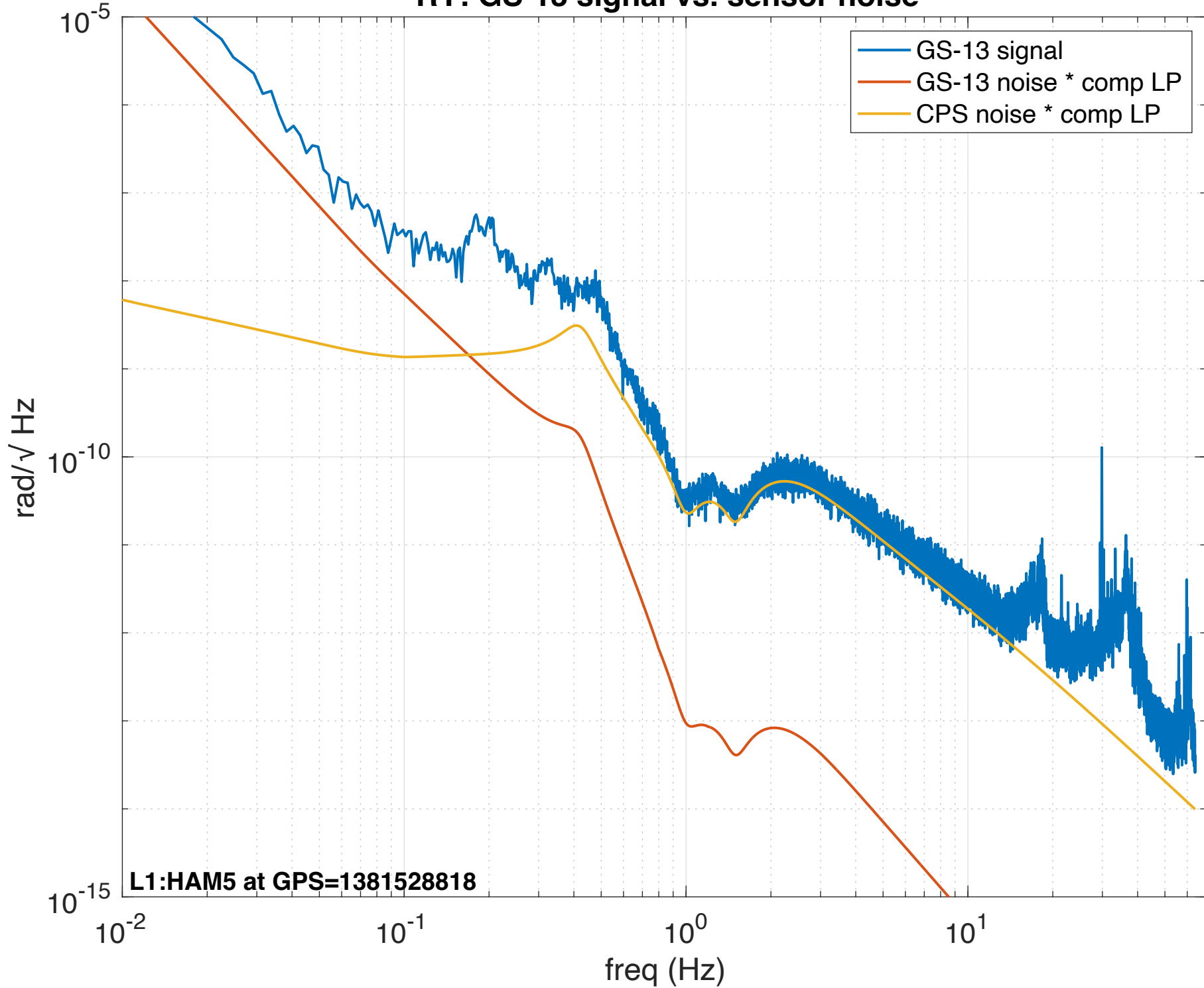
L1:HAM5 at GPS=1381528818



# RY: GS-13 and CPS signal

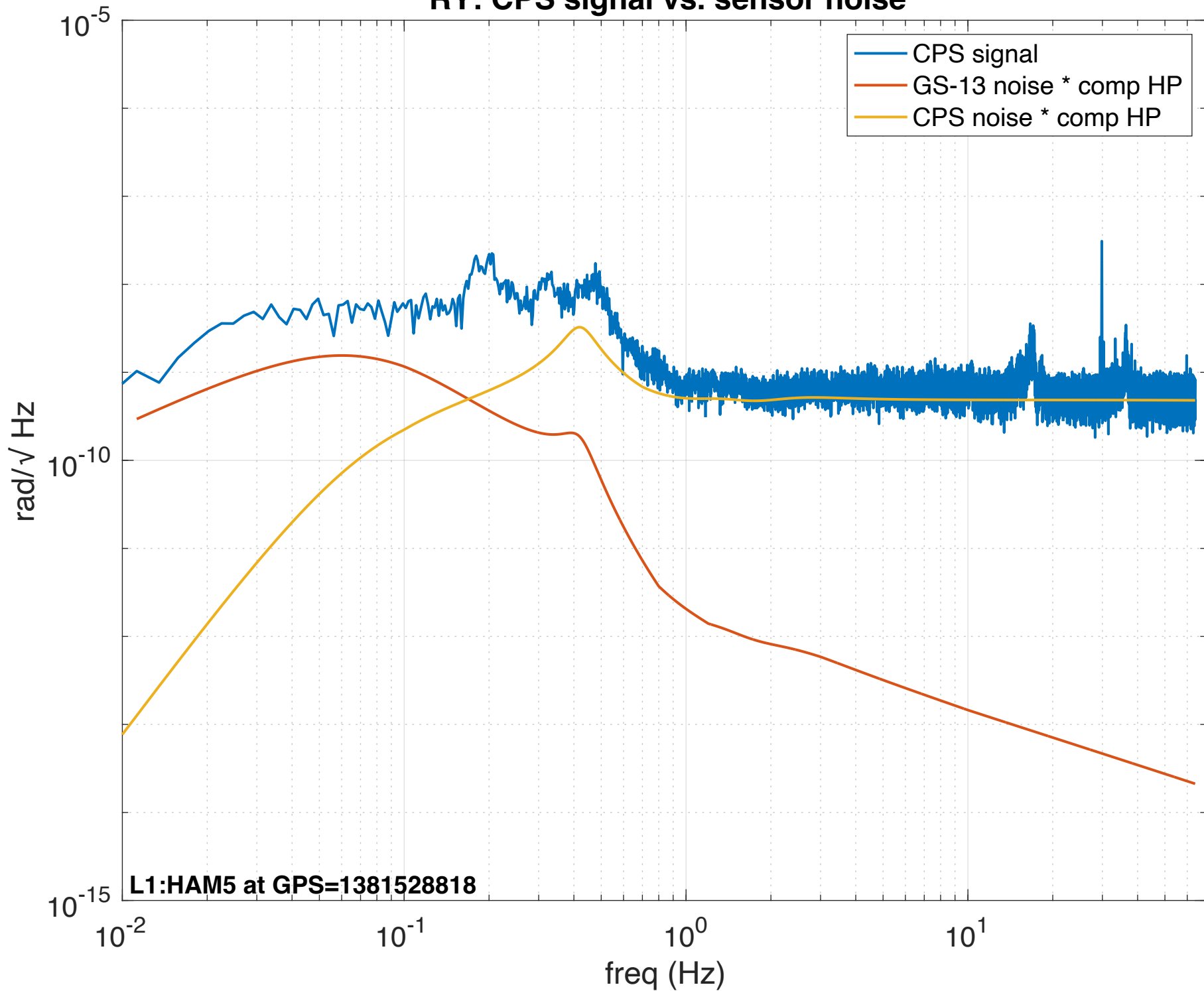


# RY: GS-13 signal vs. sensor noise



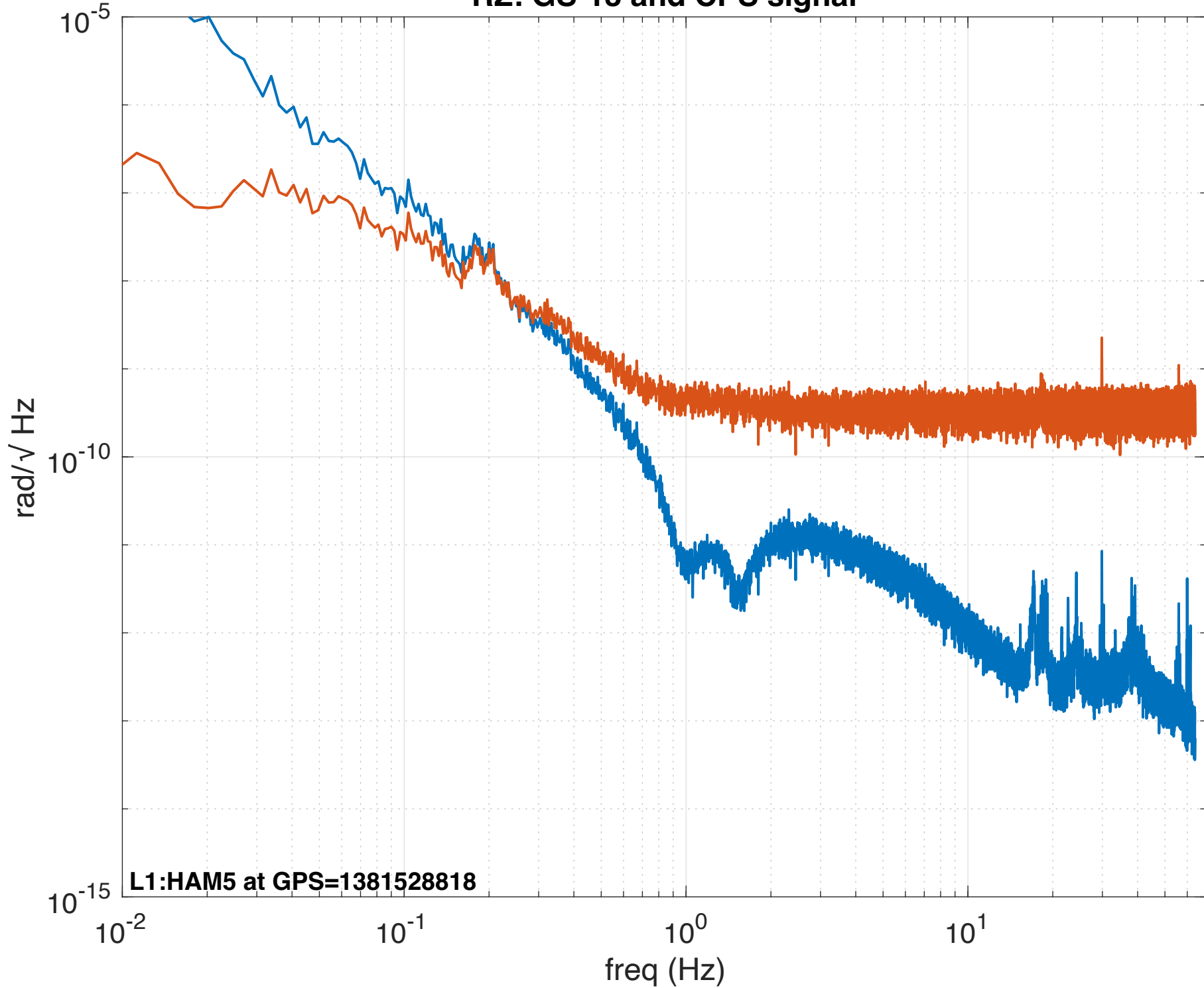
L1:HAM5 at GPS=1381528818

# RY: CPS signal vs. sensor noise

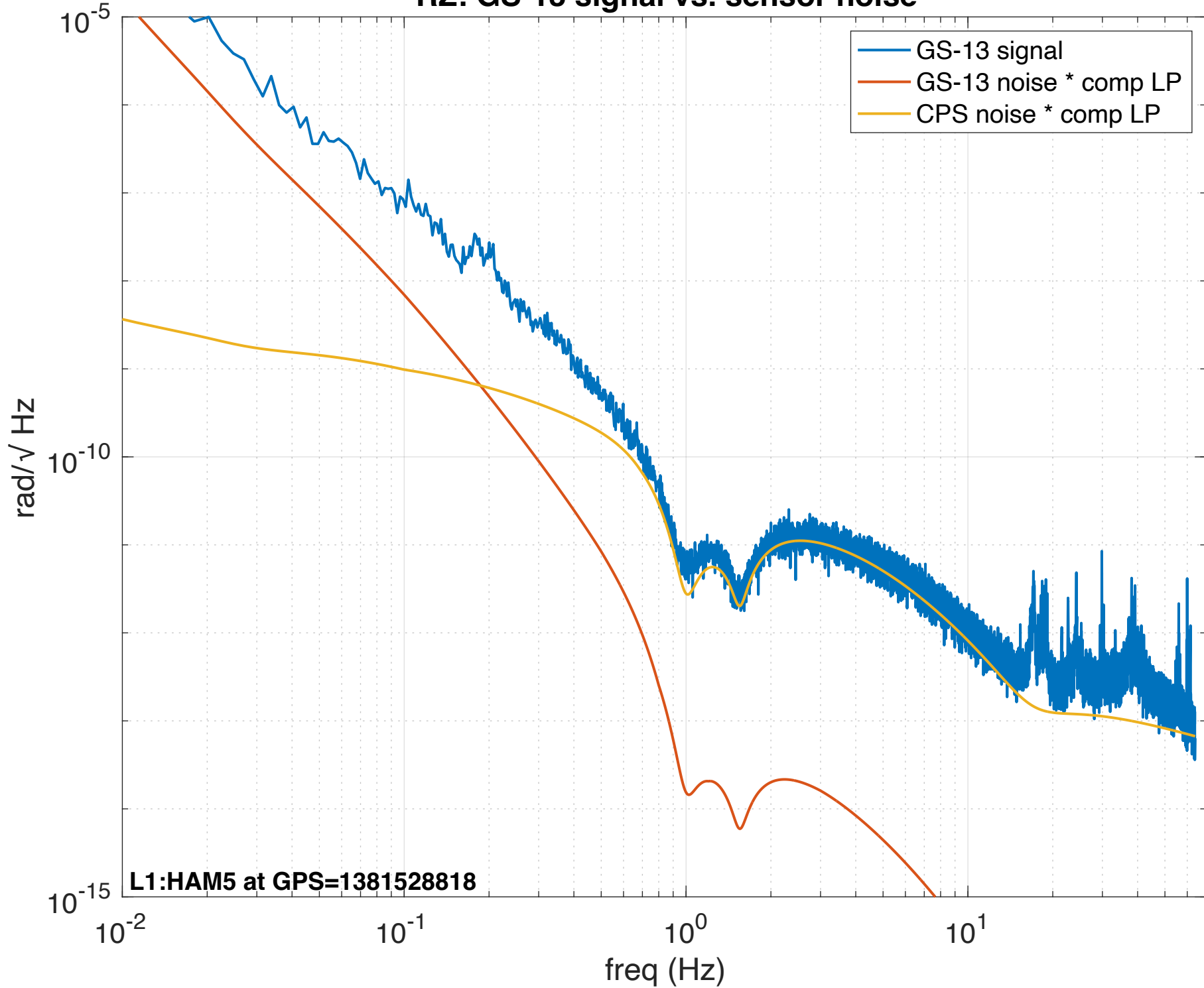


L1:HAM5 at GPS=1381528818

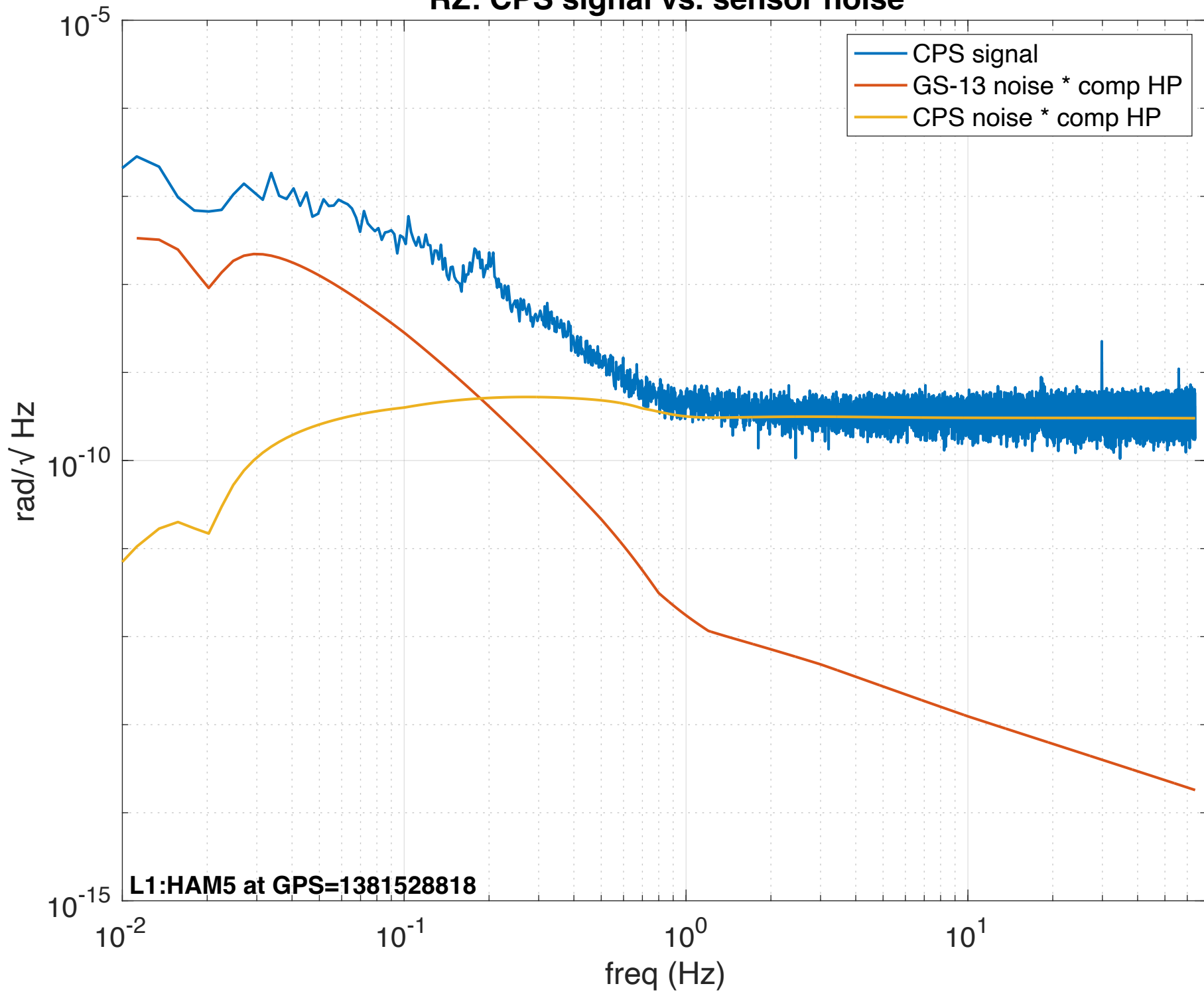
# RZ: GS-13 and CPS signal



# RZ: GS-13 signal vs. sensor noise

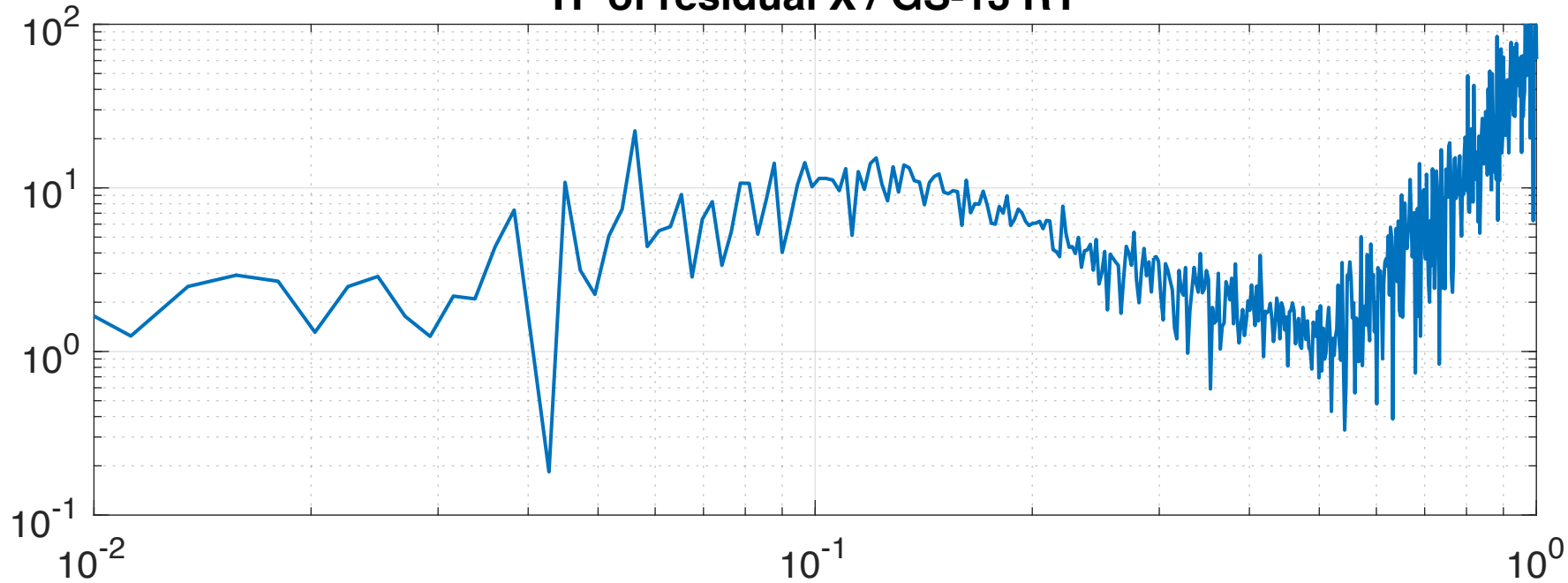


# RZ: CPS signal vs. sensor noise

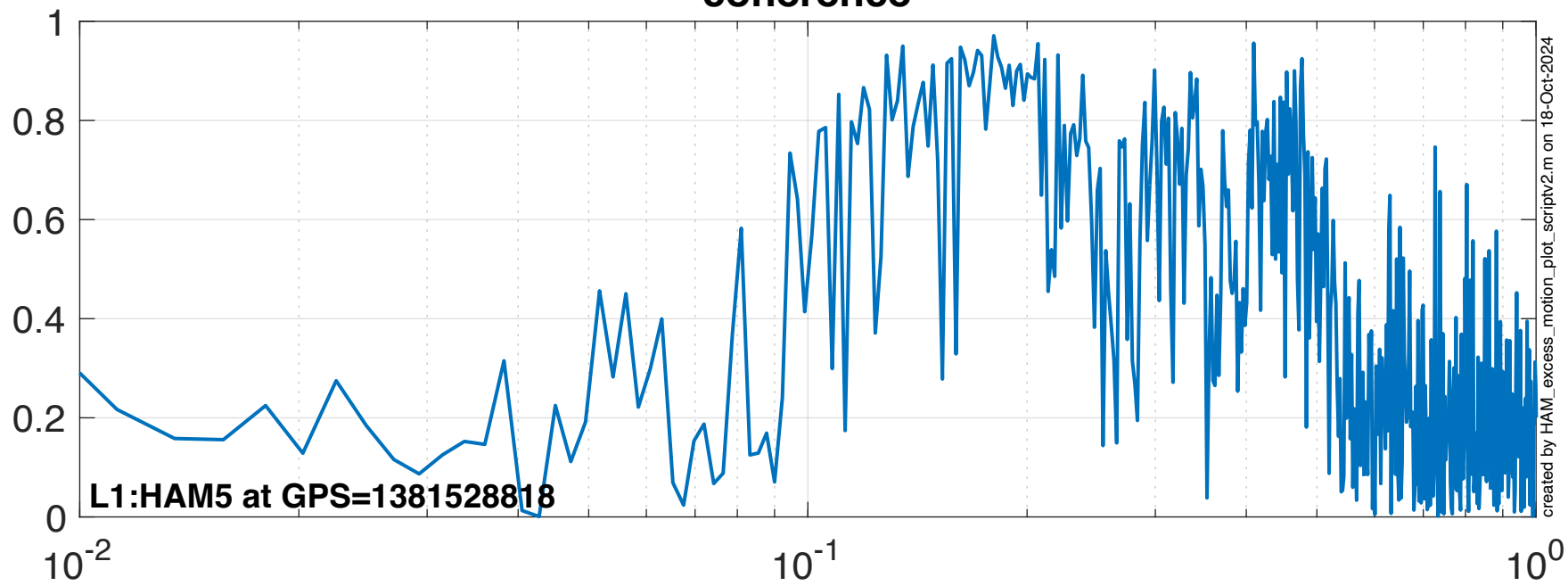


L1:HAM5 at GPS=1381528818

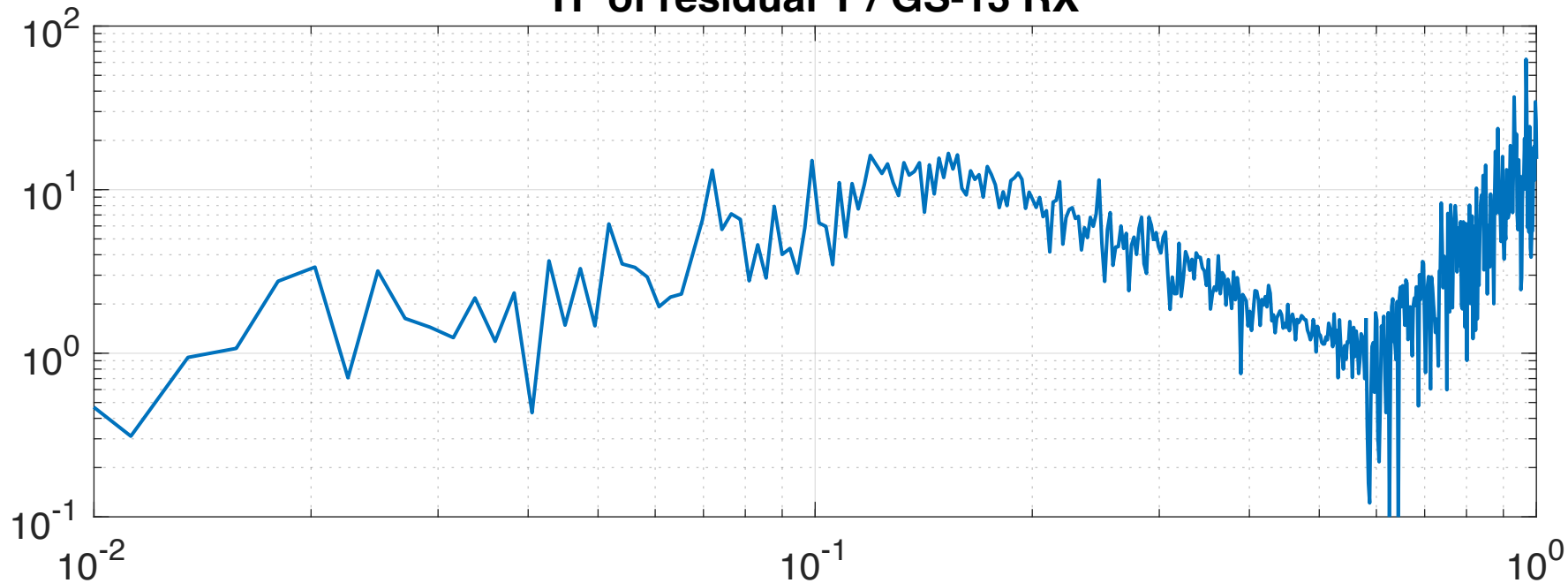
### TF of residual X / GS-13 RY



### coherence



### TF of residual Y / GS-13 RX



### coherence

