

**PESIN  
2023**

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**TOMO III**

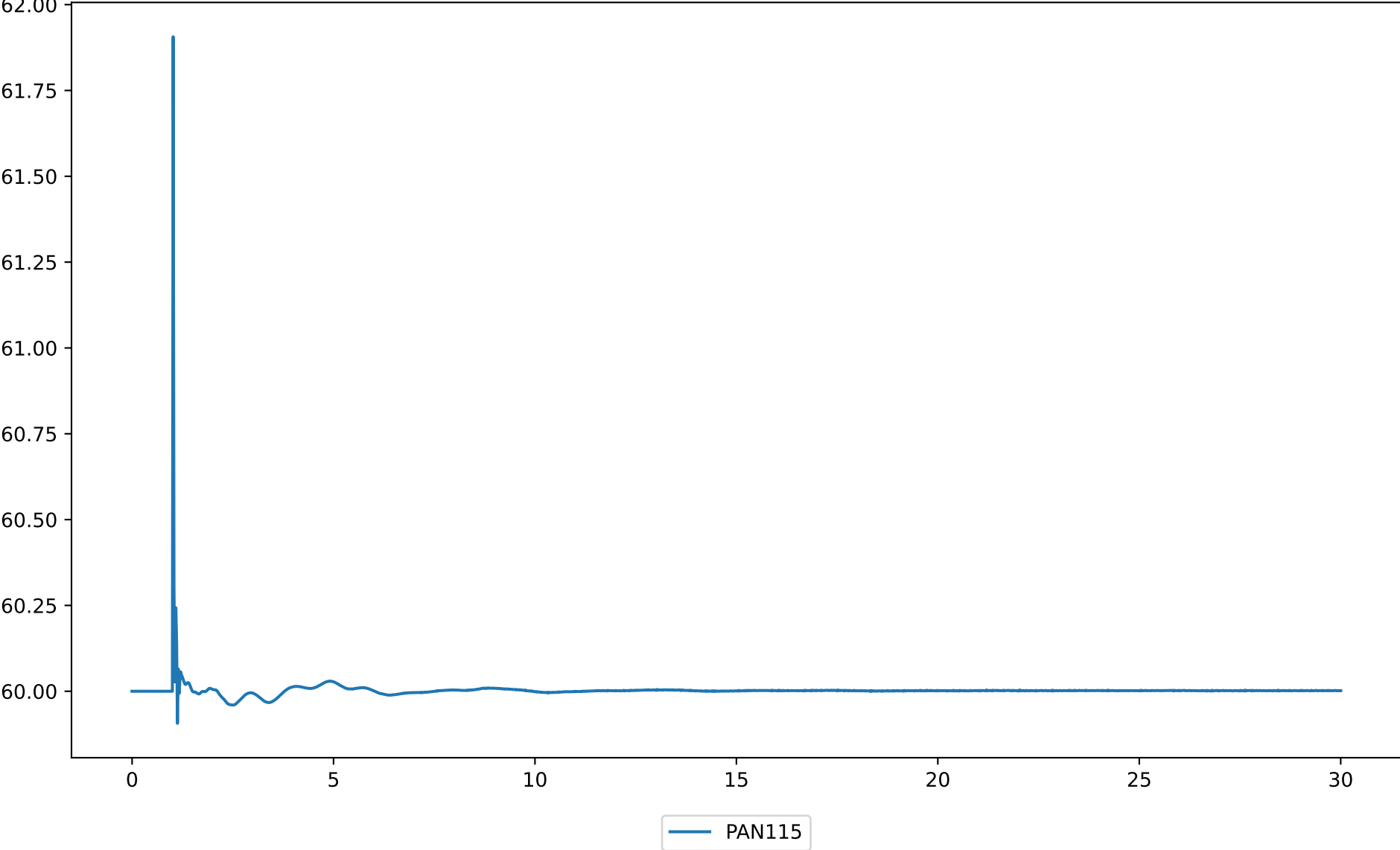
**ANEXO VI**

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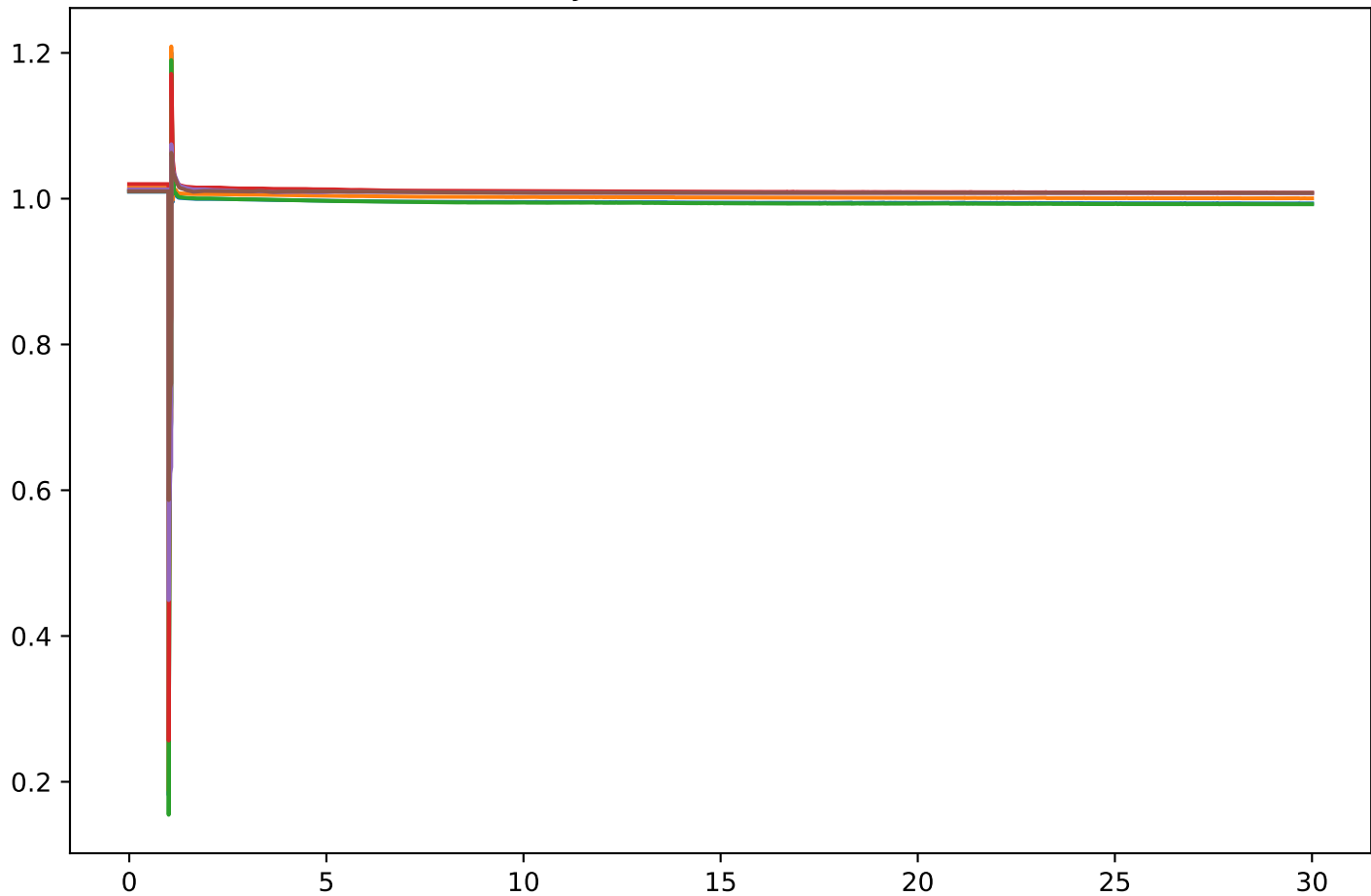
**ANÁLISIS DINÁMICO  
LARGO PLAZO**

**2027 LLUVIOSA**

### Frecuencia (Hz)

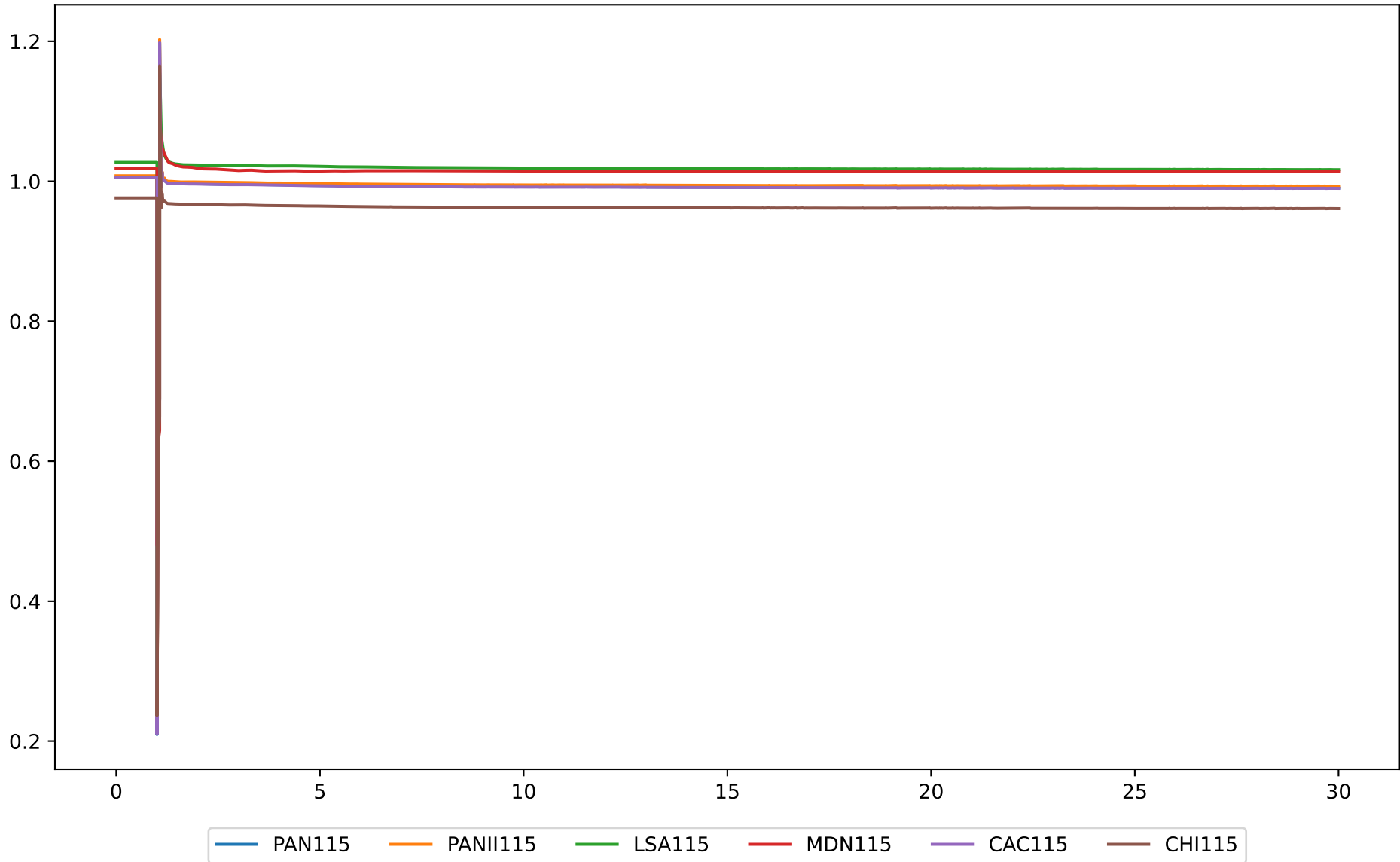


# Voltajes 230kV - Panama

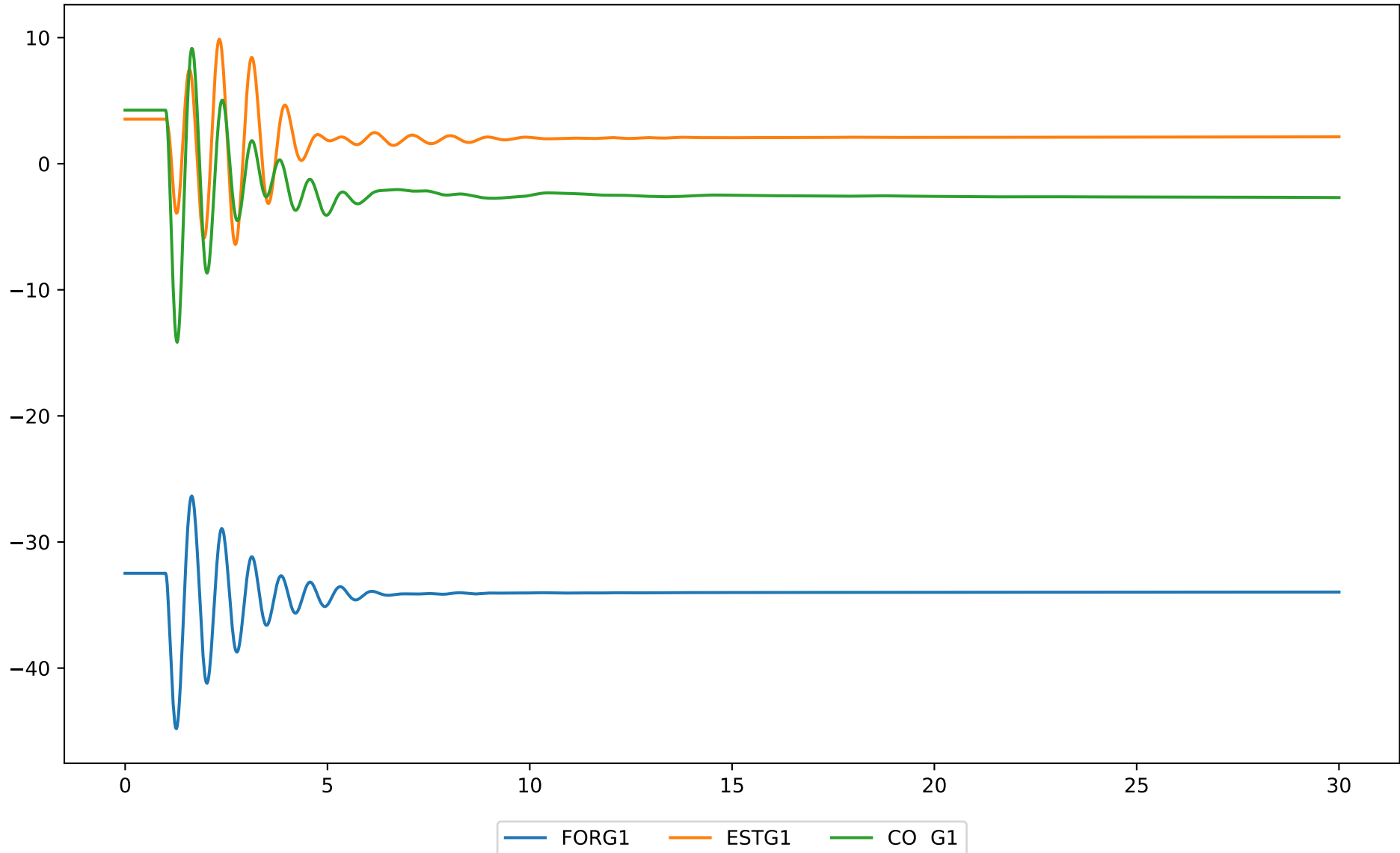


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

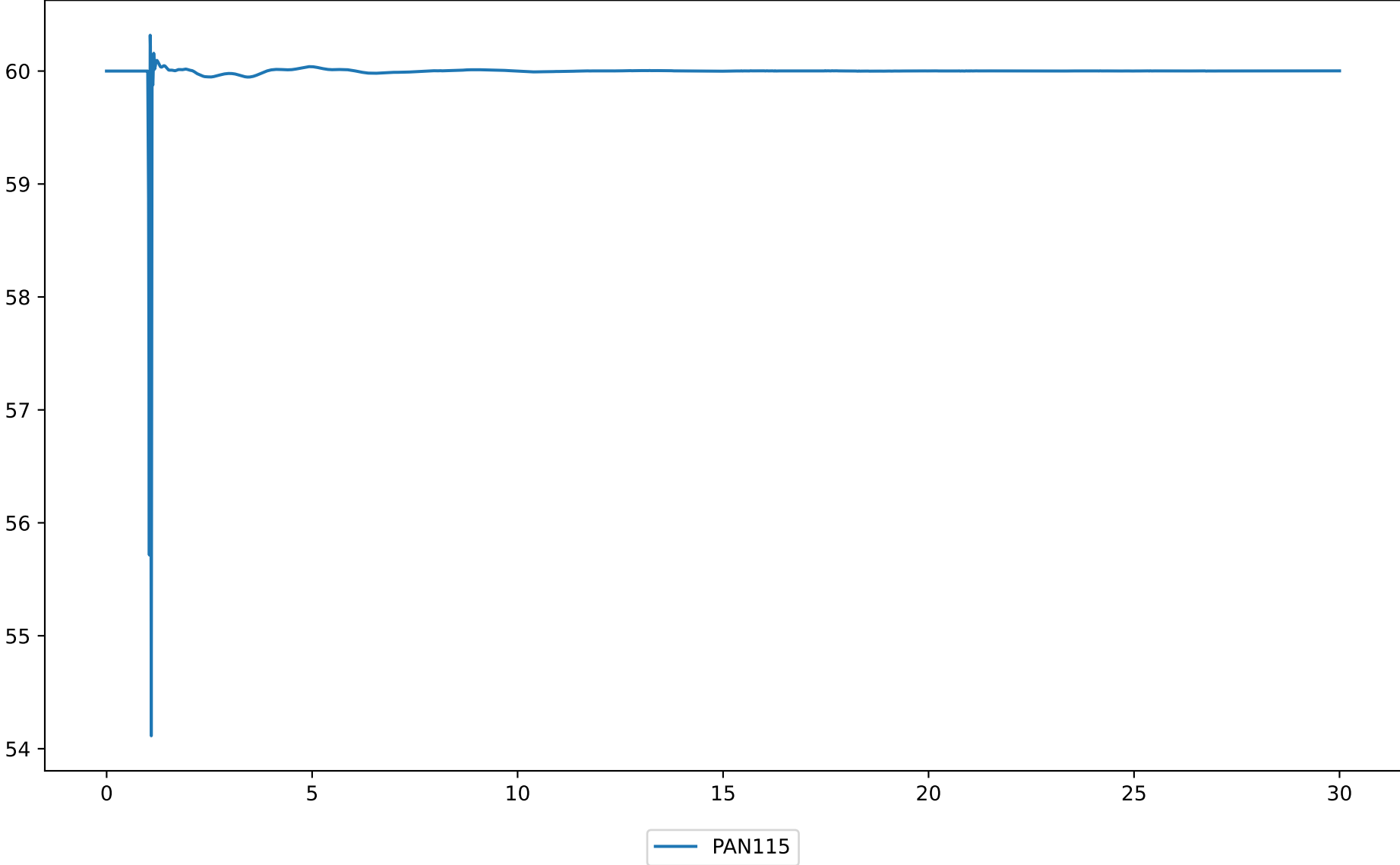
### Voltajes 115kV - Panama



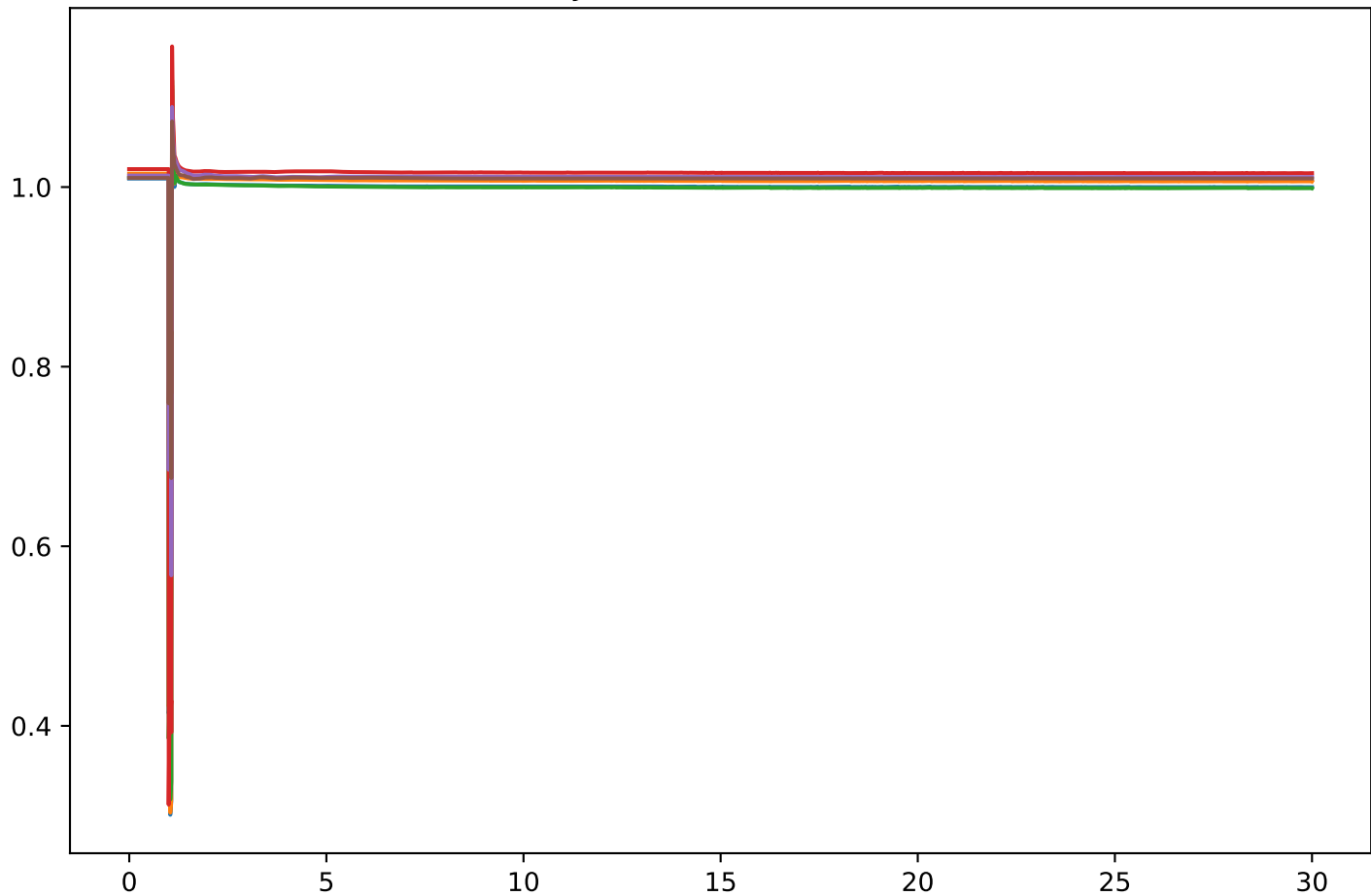
### Angulos de Rotacion de Maquinas - Panama



### Frecuencia (Hz)

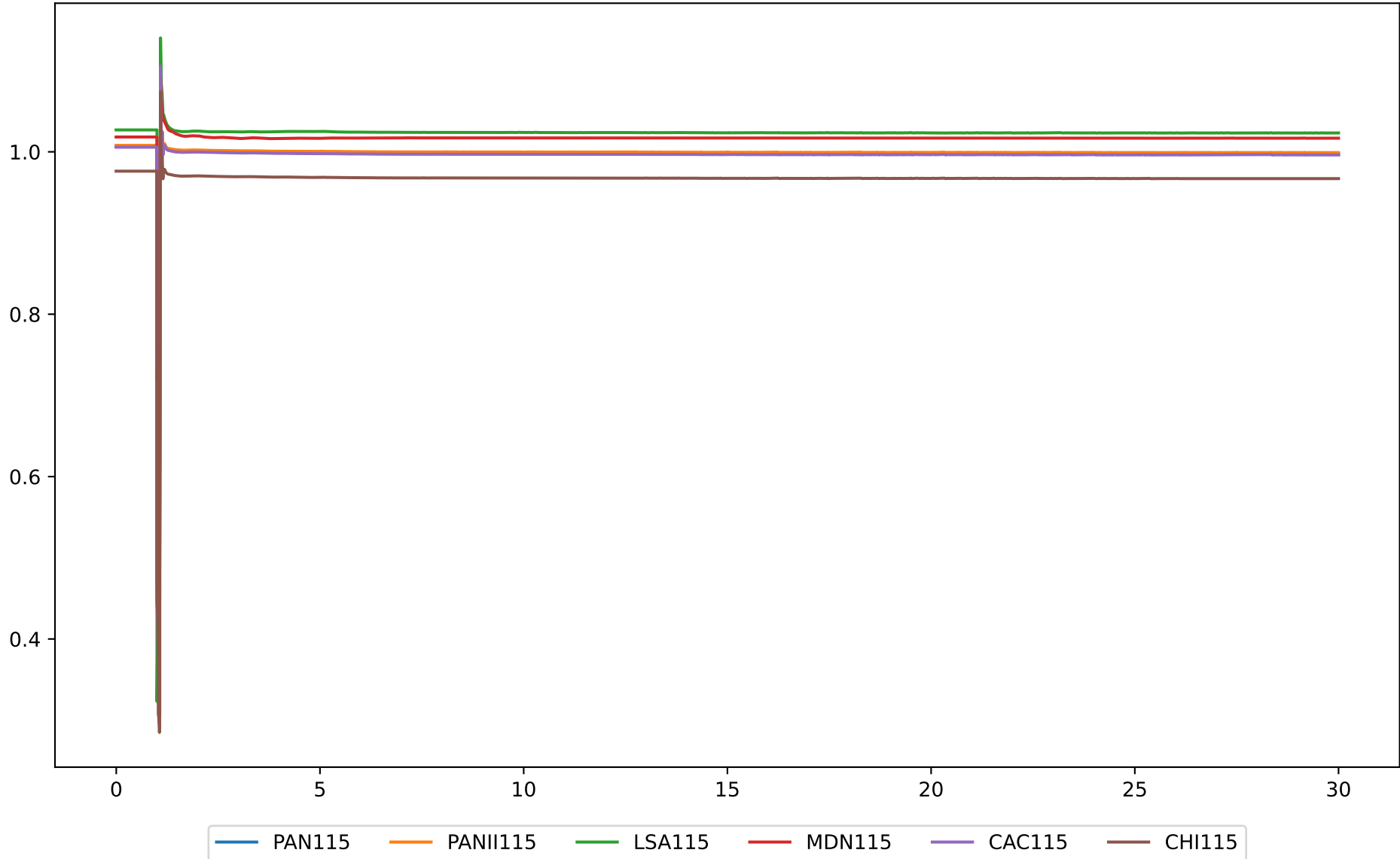


# Voltajes 230kV - Panama

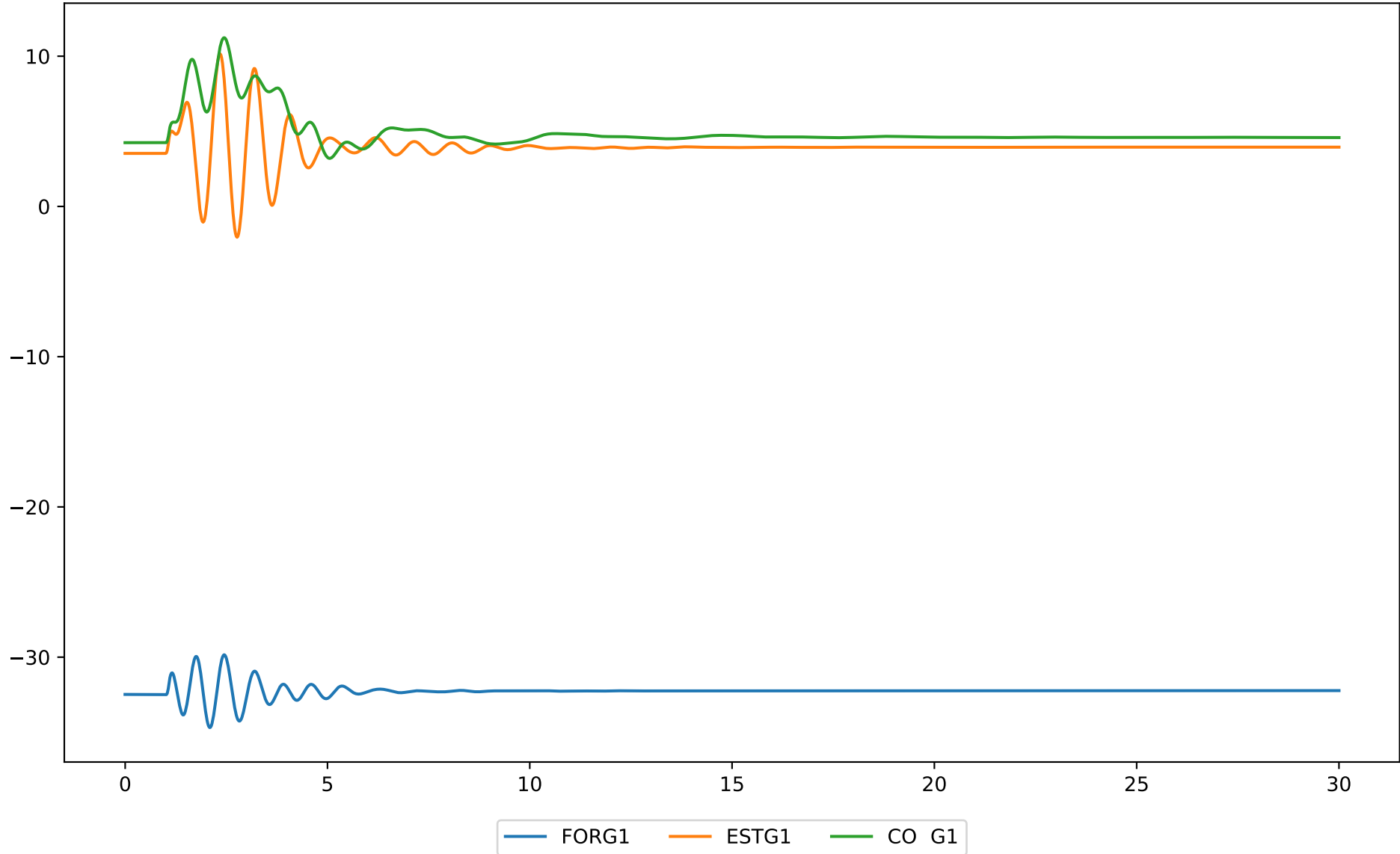




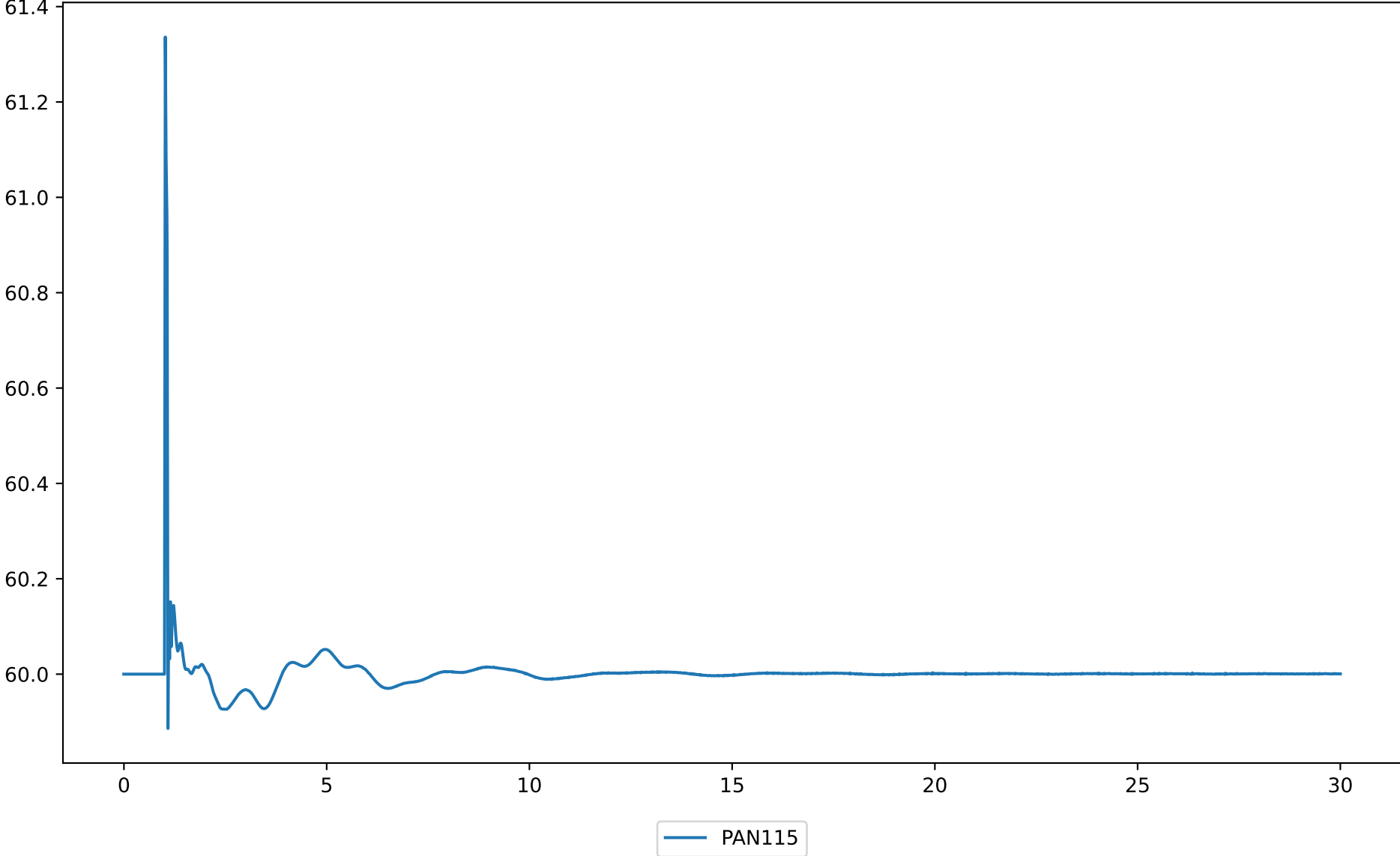
### Voltajes 115kV - Panama



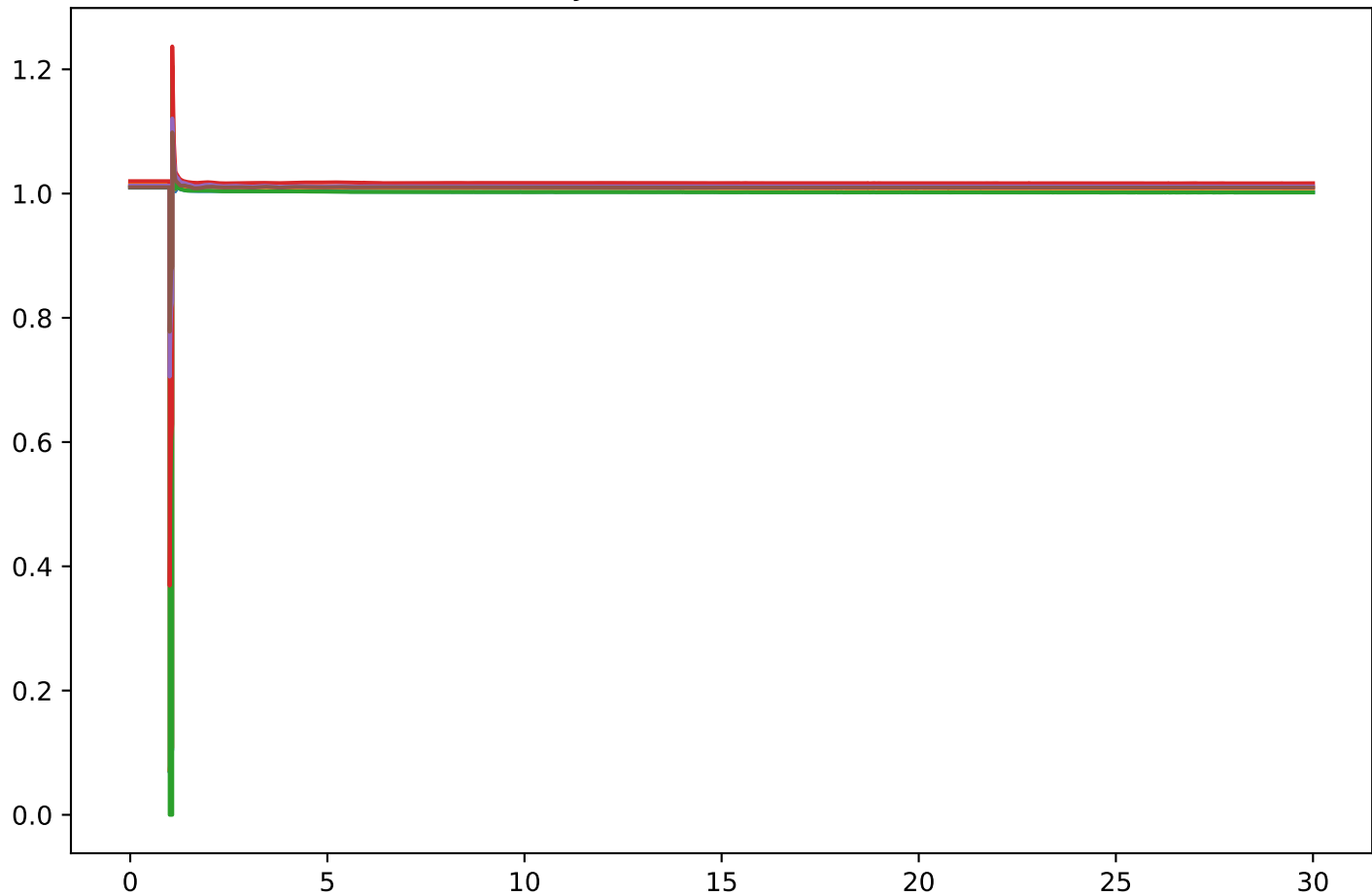
### Angulos de Rotacion de Maquinas - Panama



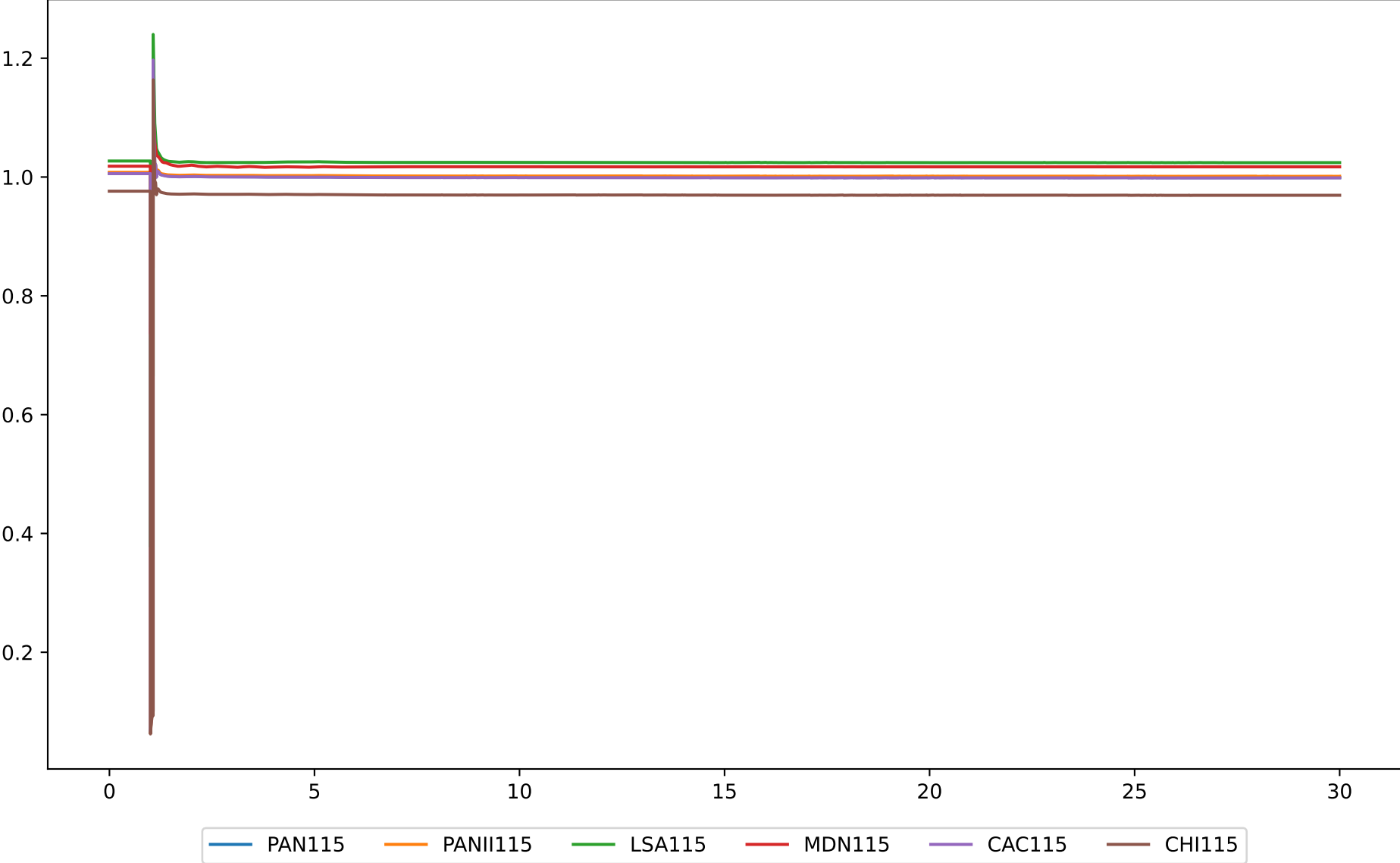
### Frecuencia (Hz)



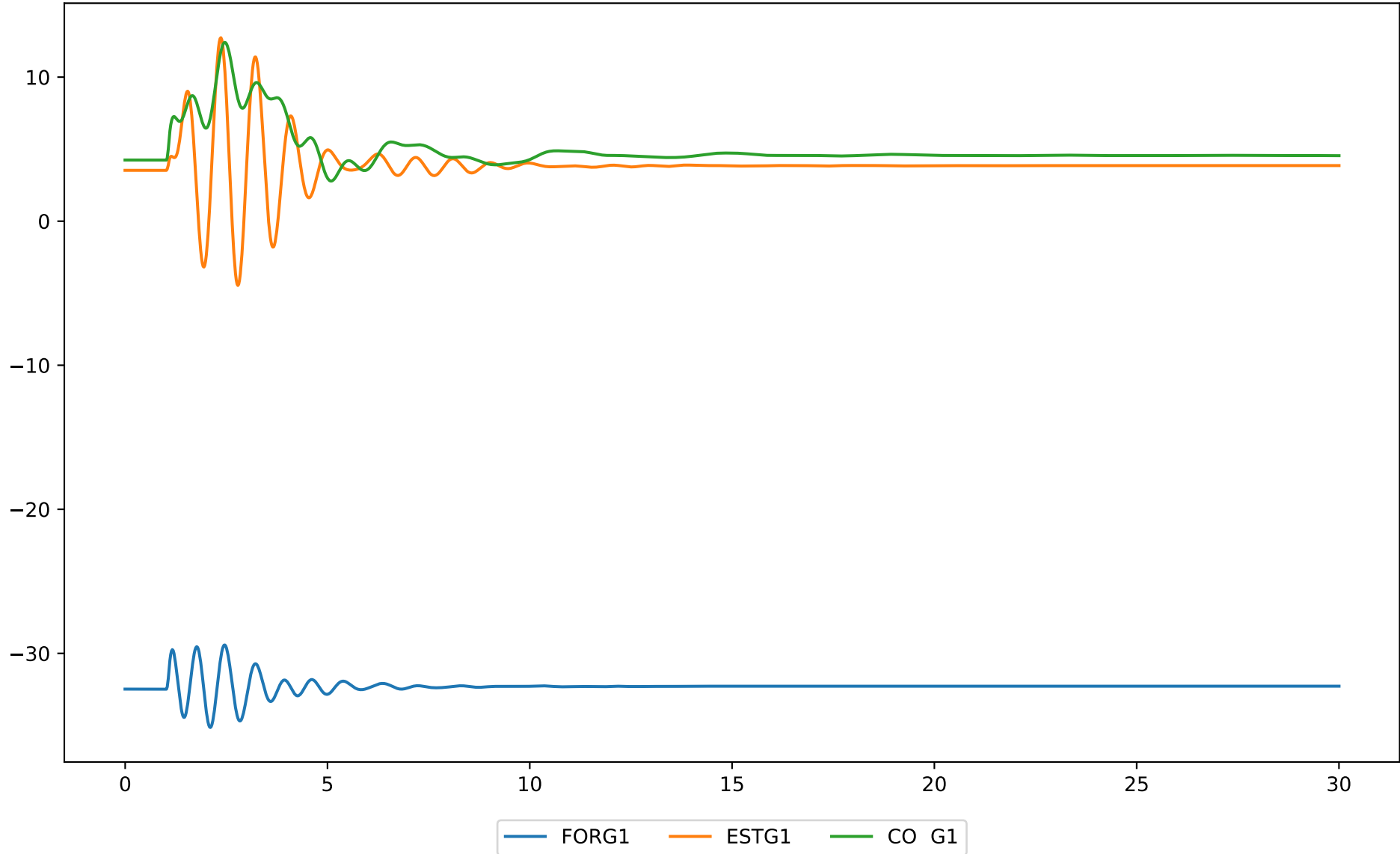
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

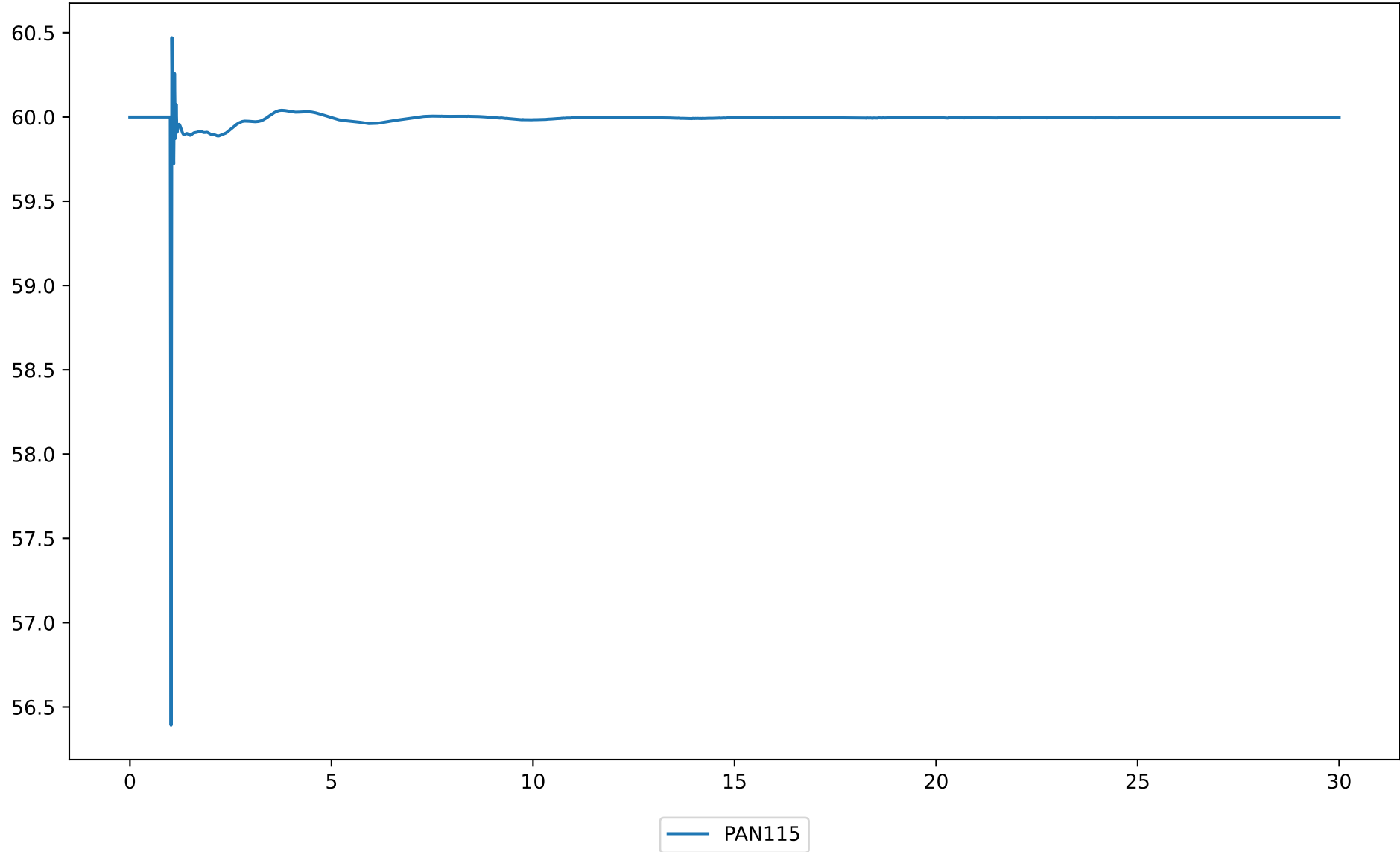


### Angulos de Rotacion de Maquinas - Panama

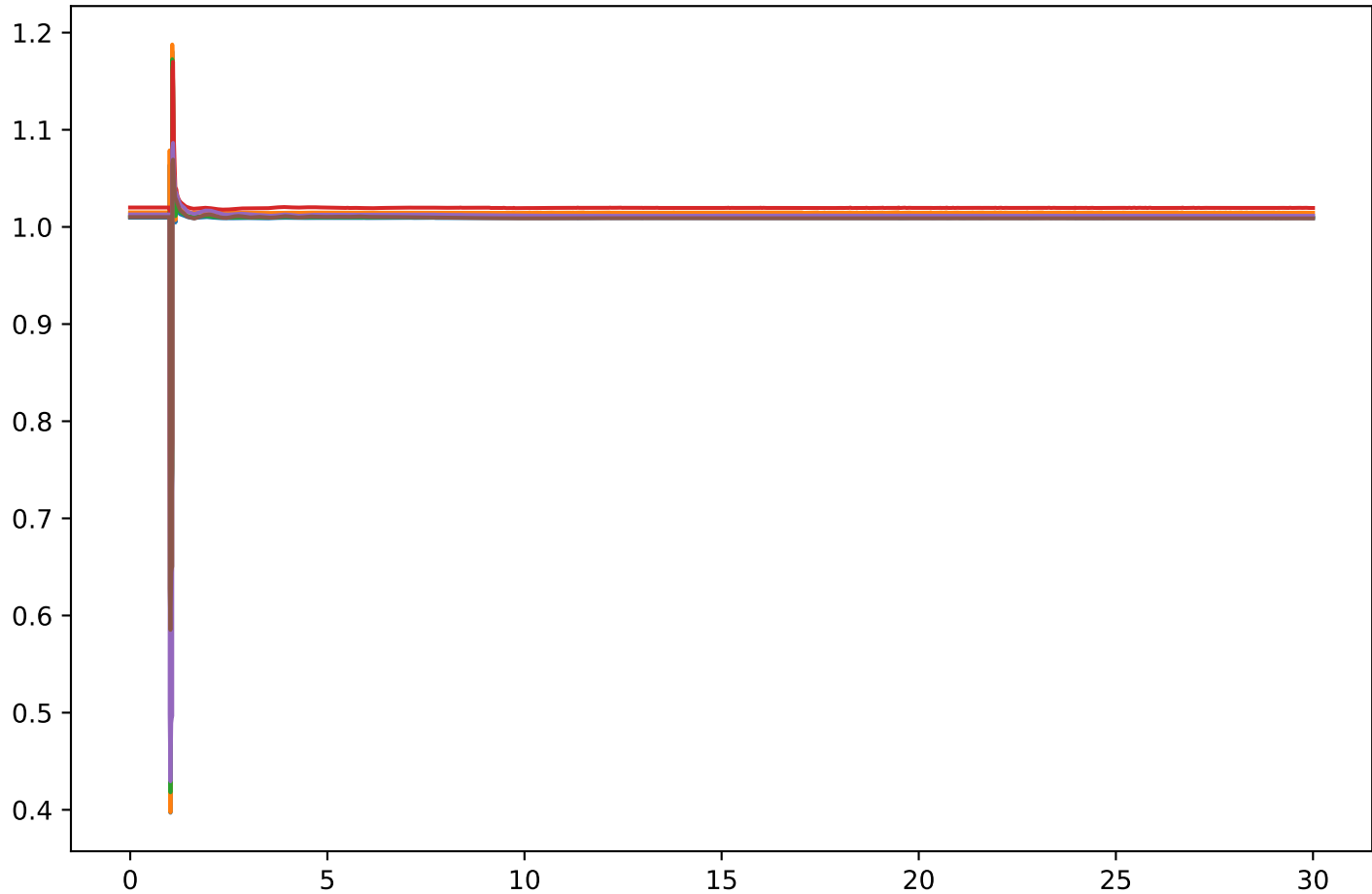


Caso: 1023-3-2027CA\_ModMax\_Lluv - Contingencia: 6178-6179-19-C4\_ESTI

### Frecuencia (Hz)



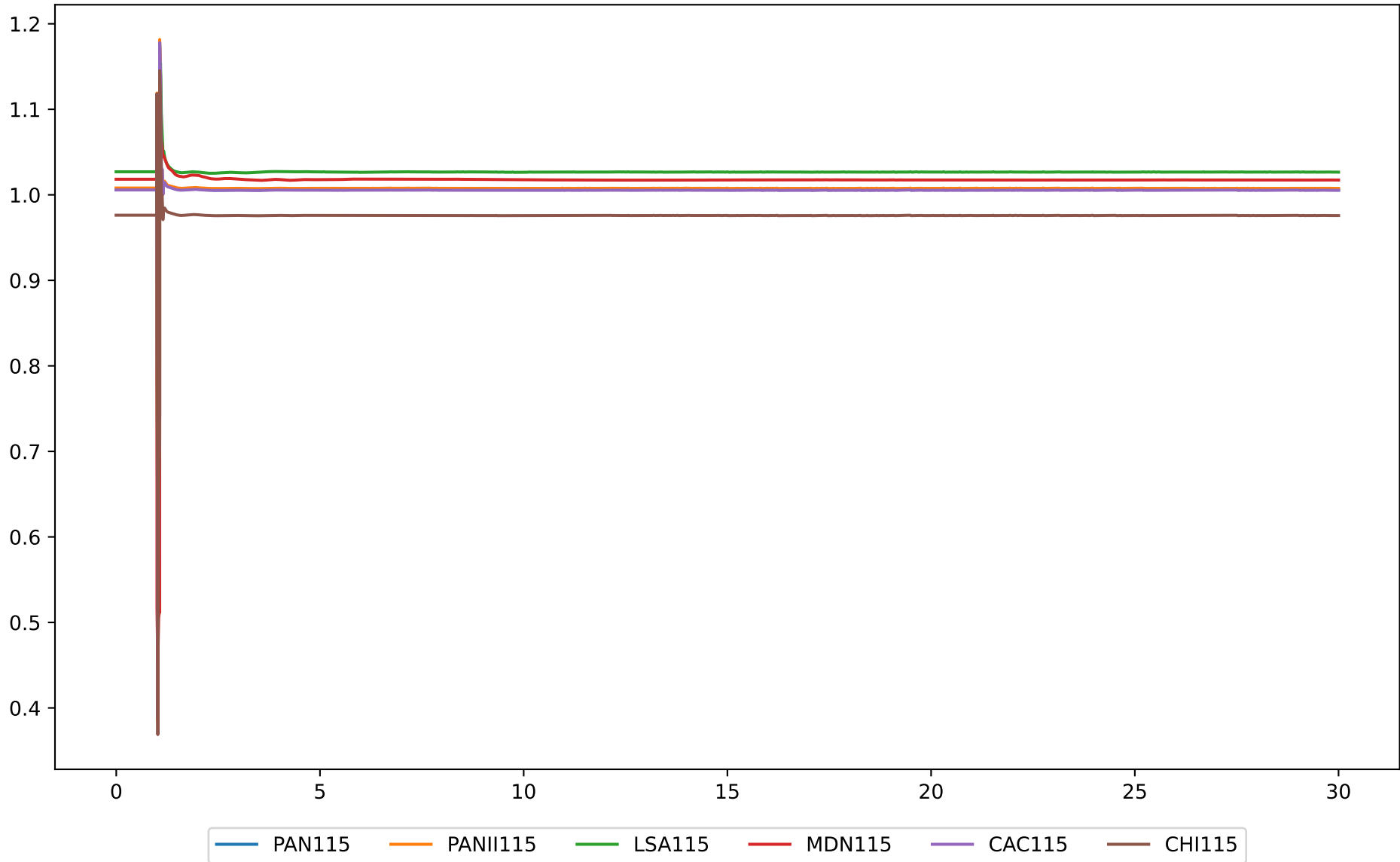
# Voltajes 230kV - Panama



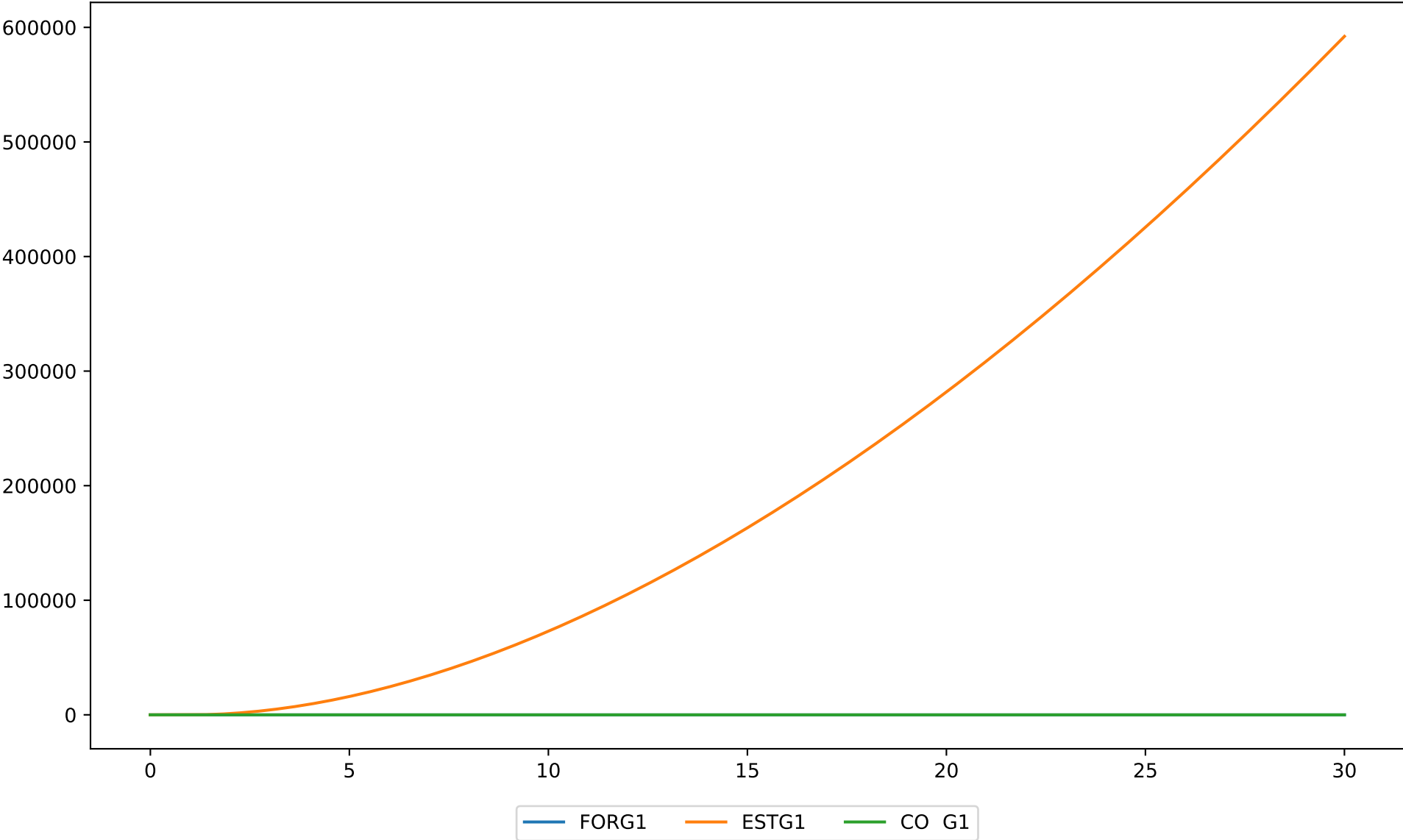
PAN230    PANII230    CHO230    LSA230    MDN230    PRO230



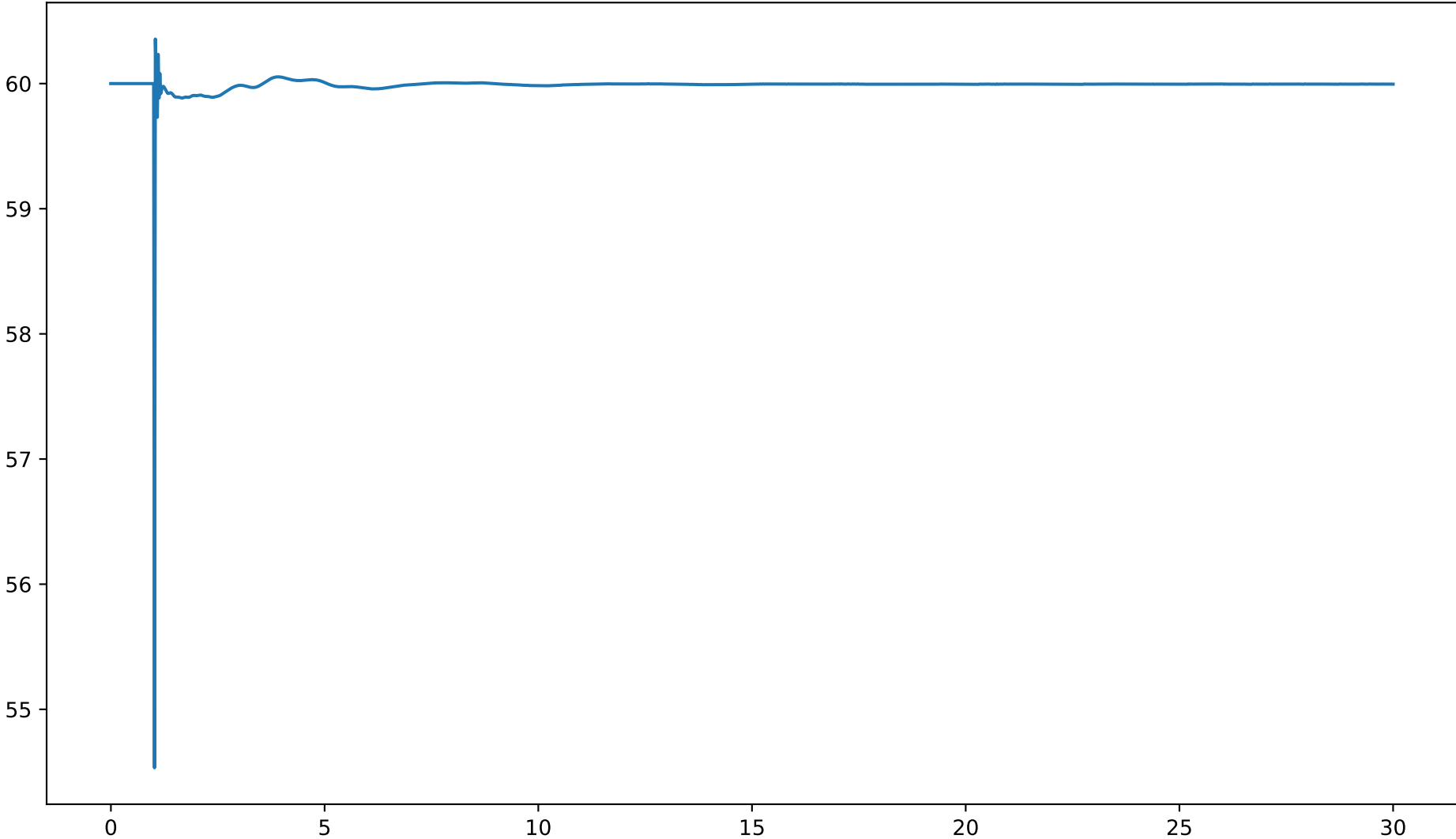
### Voltajes 115kV - Panama



### Angulos de Rotacion de Maquinas - Panama

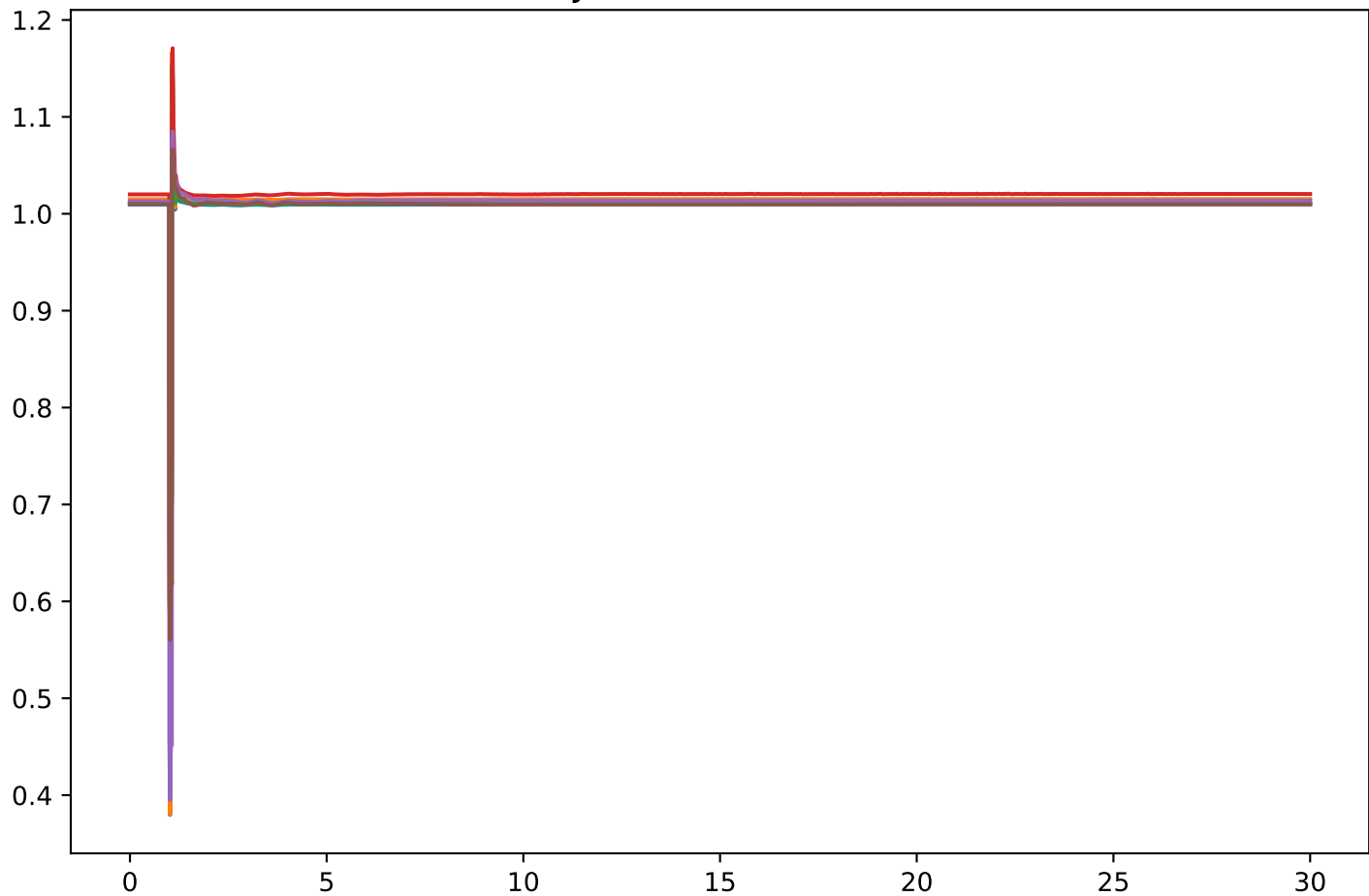


### Frecuencia (Hz)



PAN115

# Voltajes 230kV - Panama

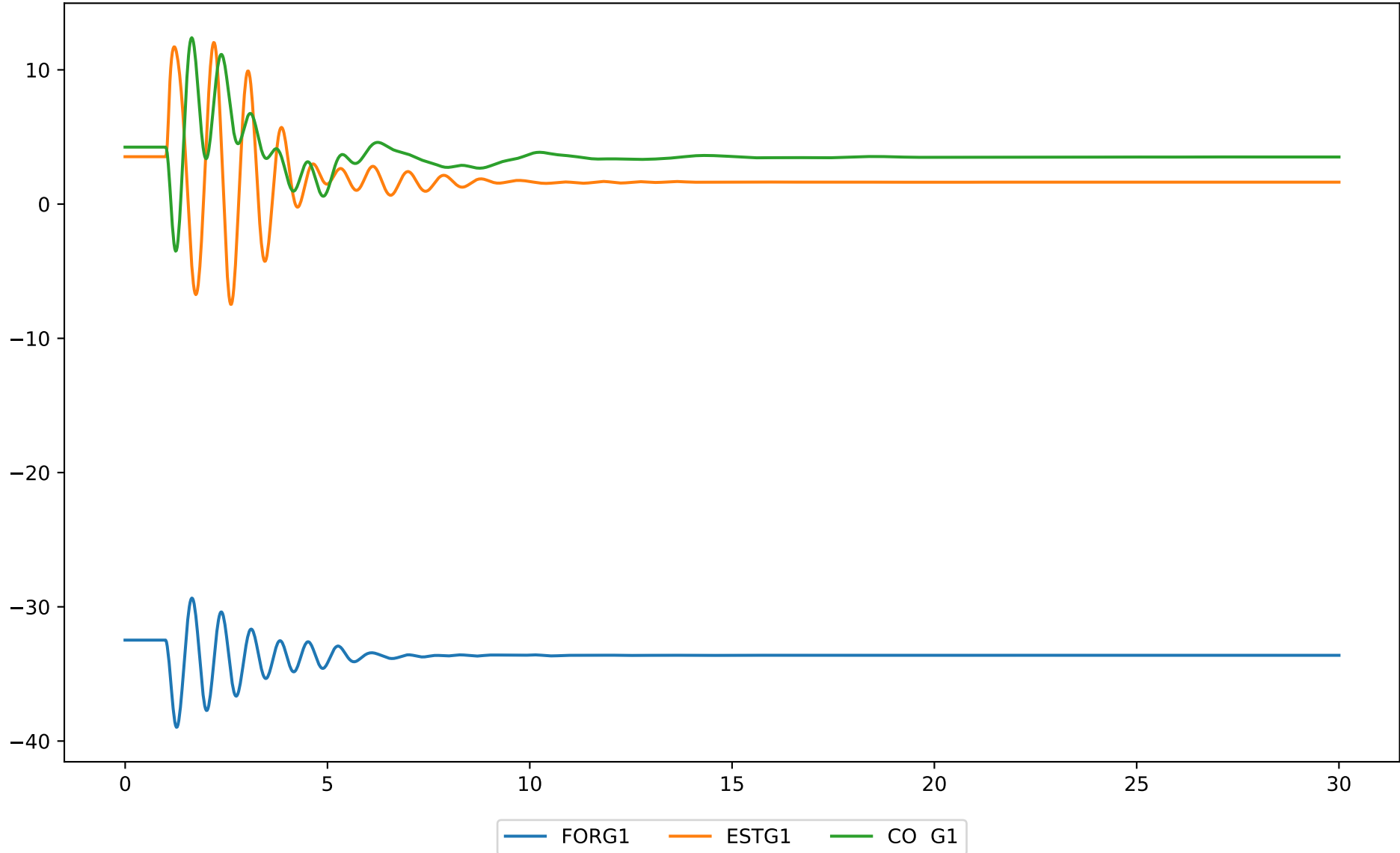


### Voltajes 115kV - Panama

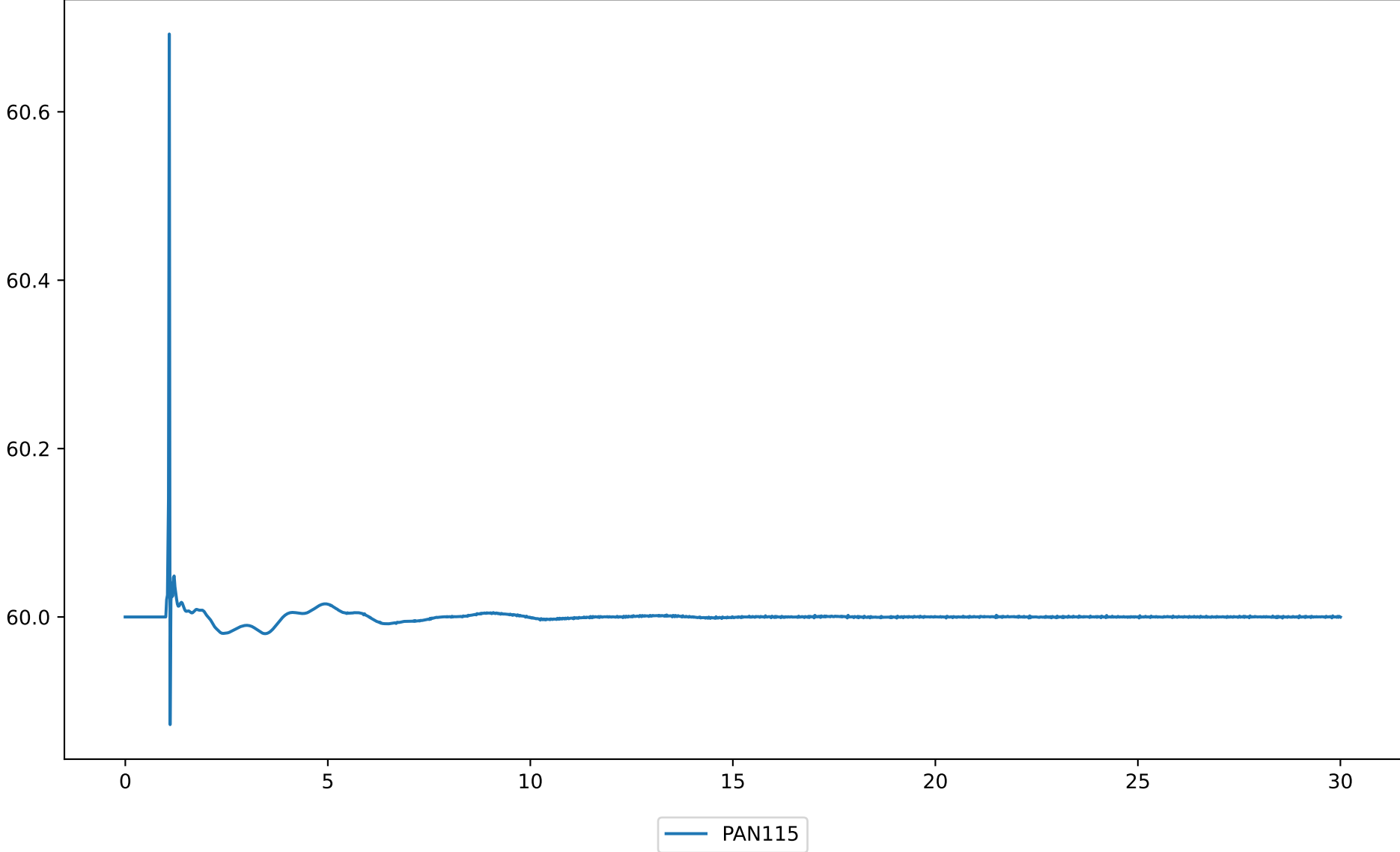


Caso: 1023-3-2027CA\_ModMax\_Lluv - Contingencia: 6179-6360-22-C5\_GUA-GLA

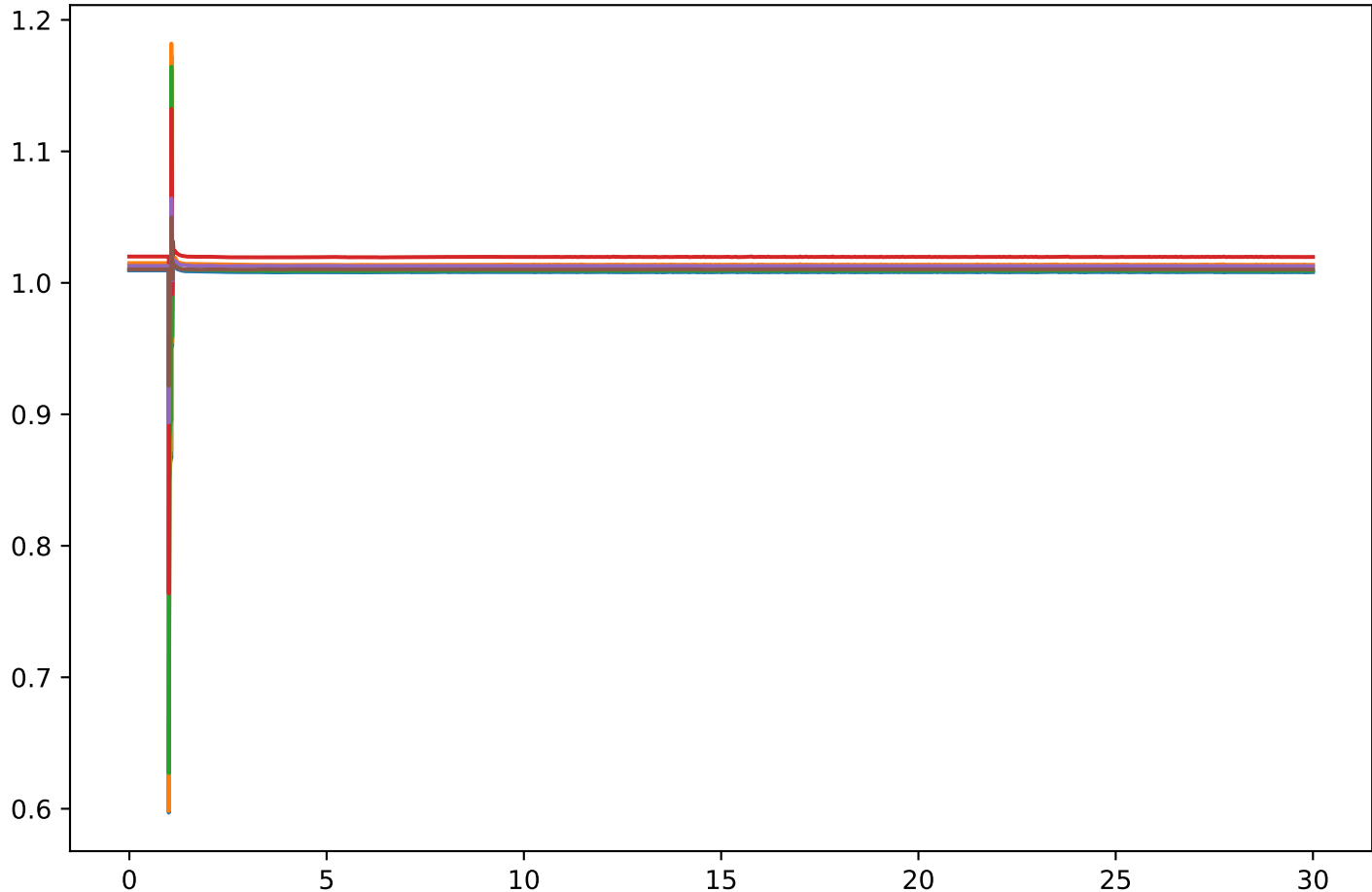
## Angulos de Rotacion de Maquinas - Panama



### Frecuencia (Hz)



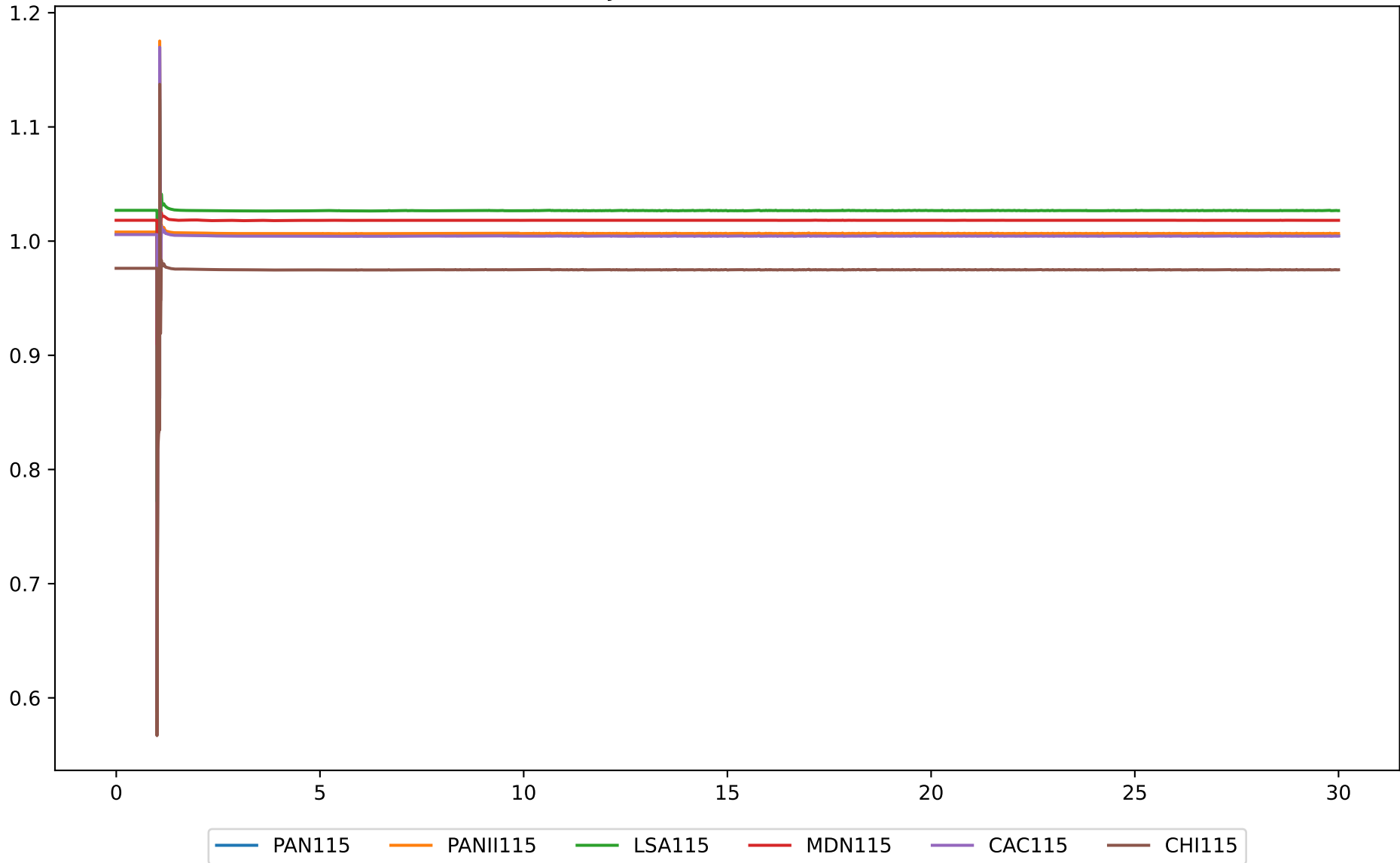
# Voltajes 230kV - Panama



PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

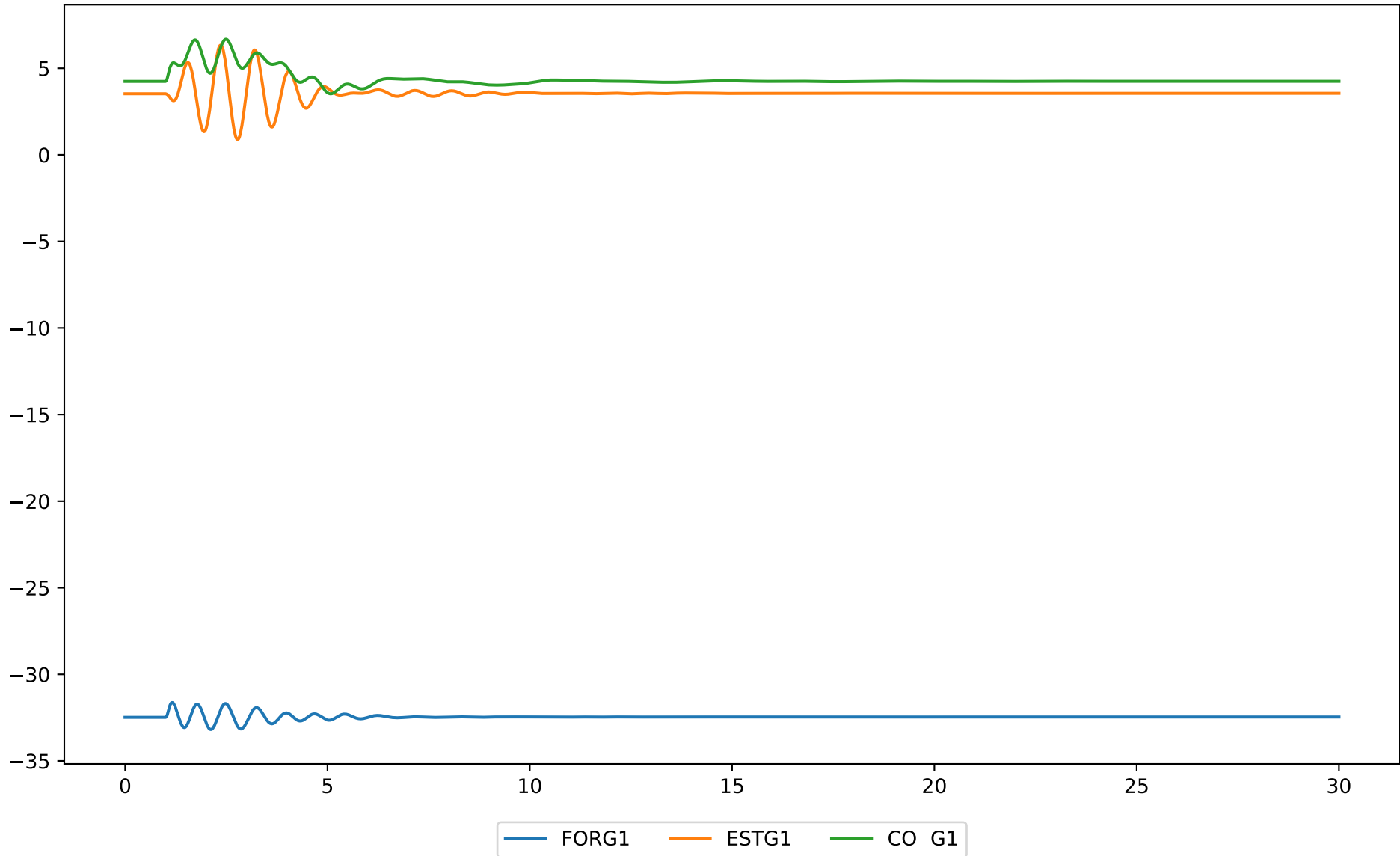


### Voltajes 115kV - Panama

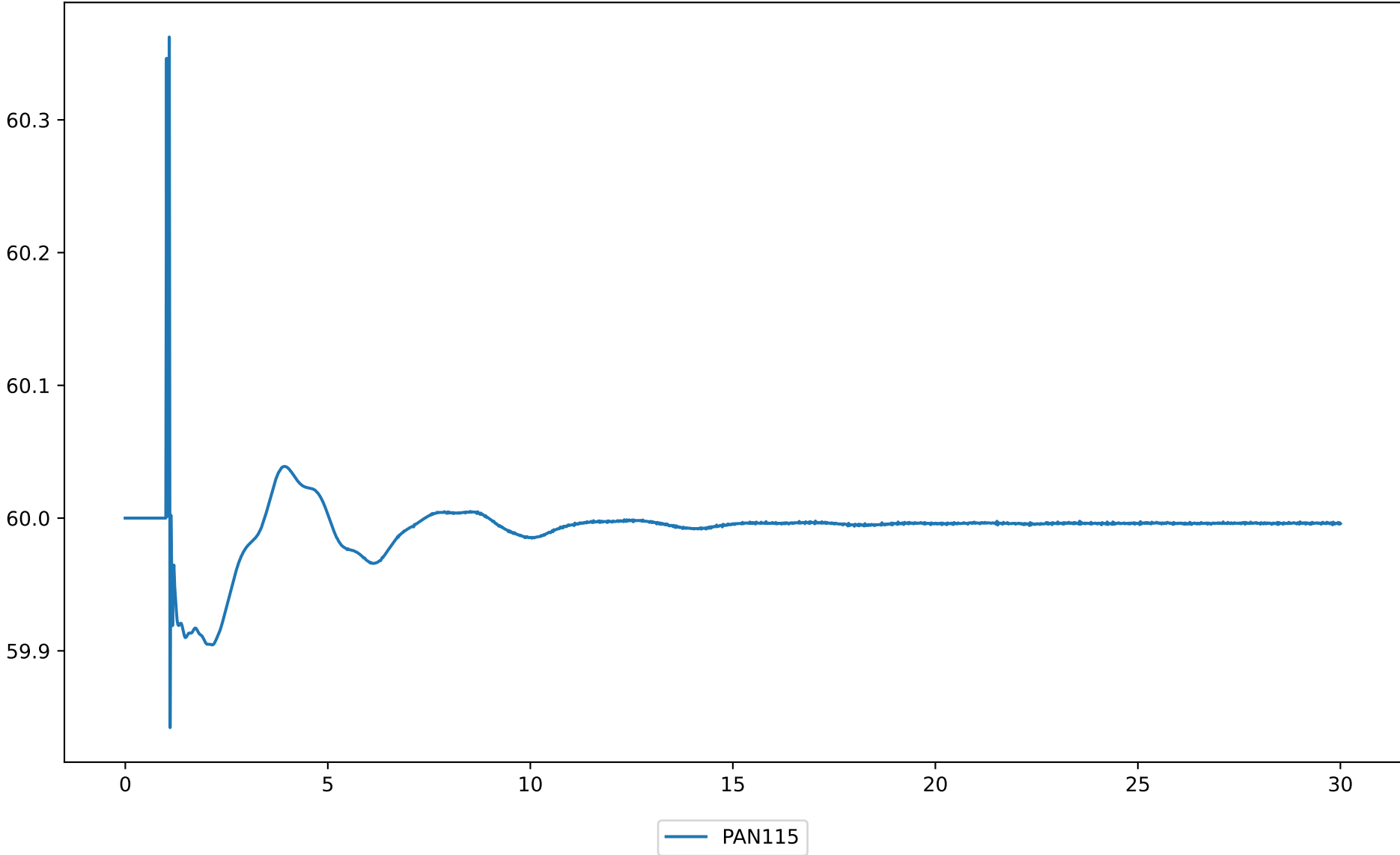


Caso: 1023-3-2027CA\_ModMax\_Lluv - Contingencia: 6820-6823-1-C9\_STC-PAN3

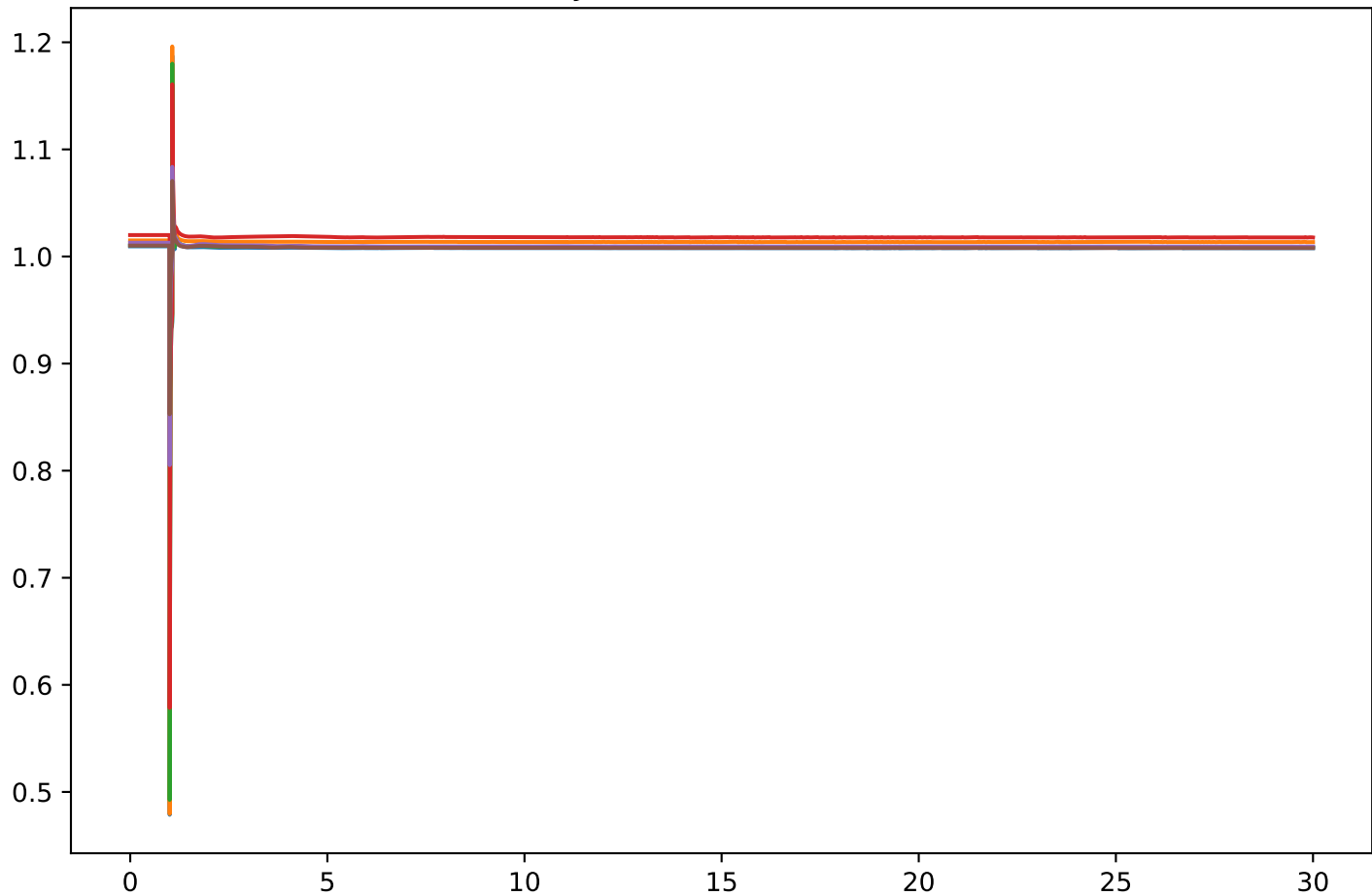
## Angulos de Rotacion de Maquinas - Panama



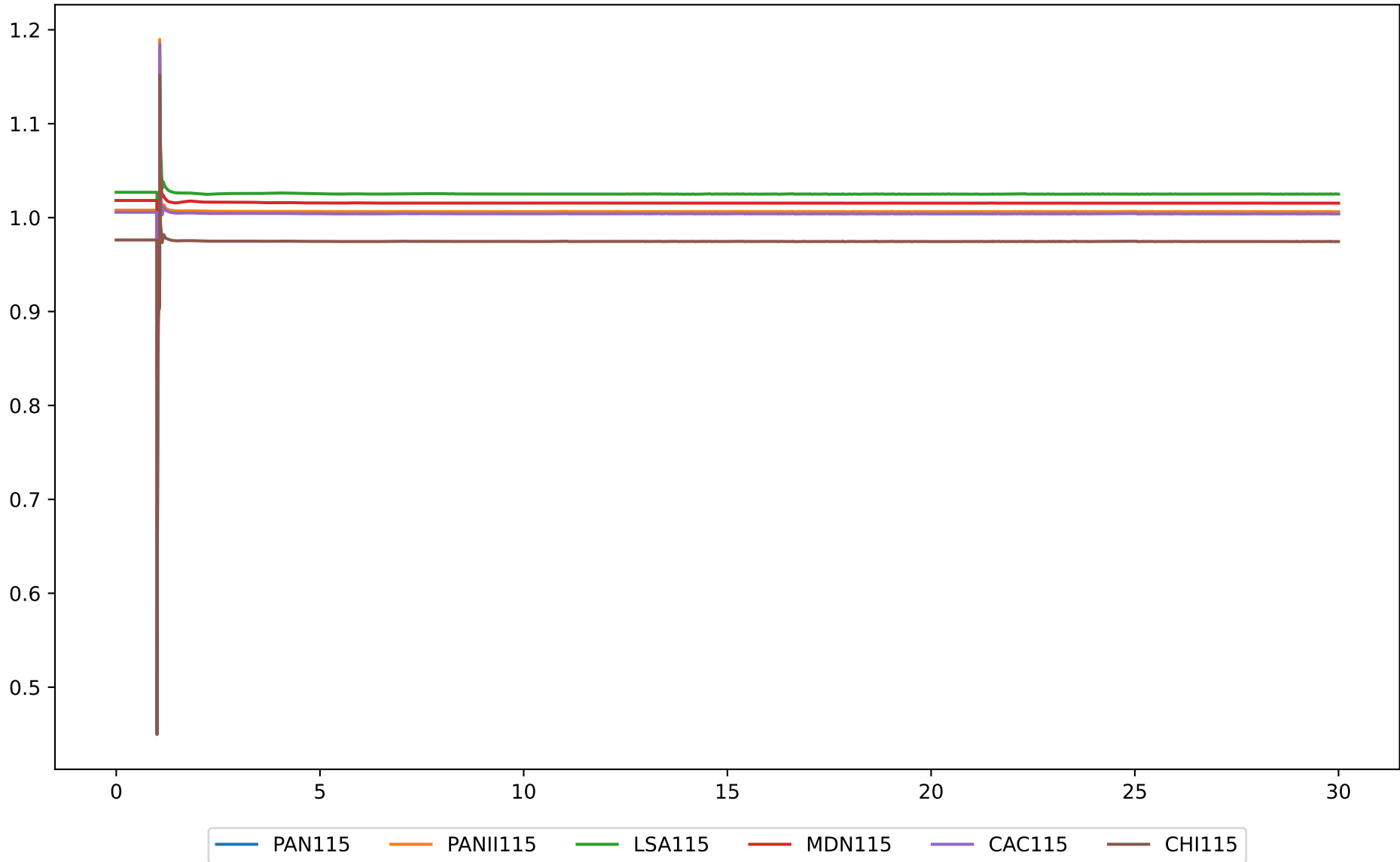
### Frecuencia (Hz)



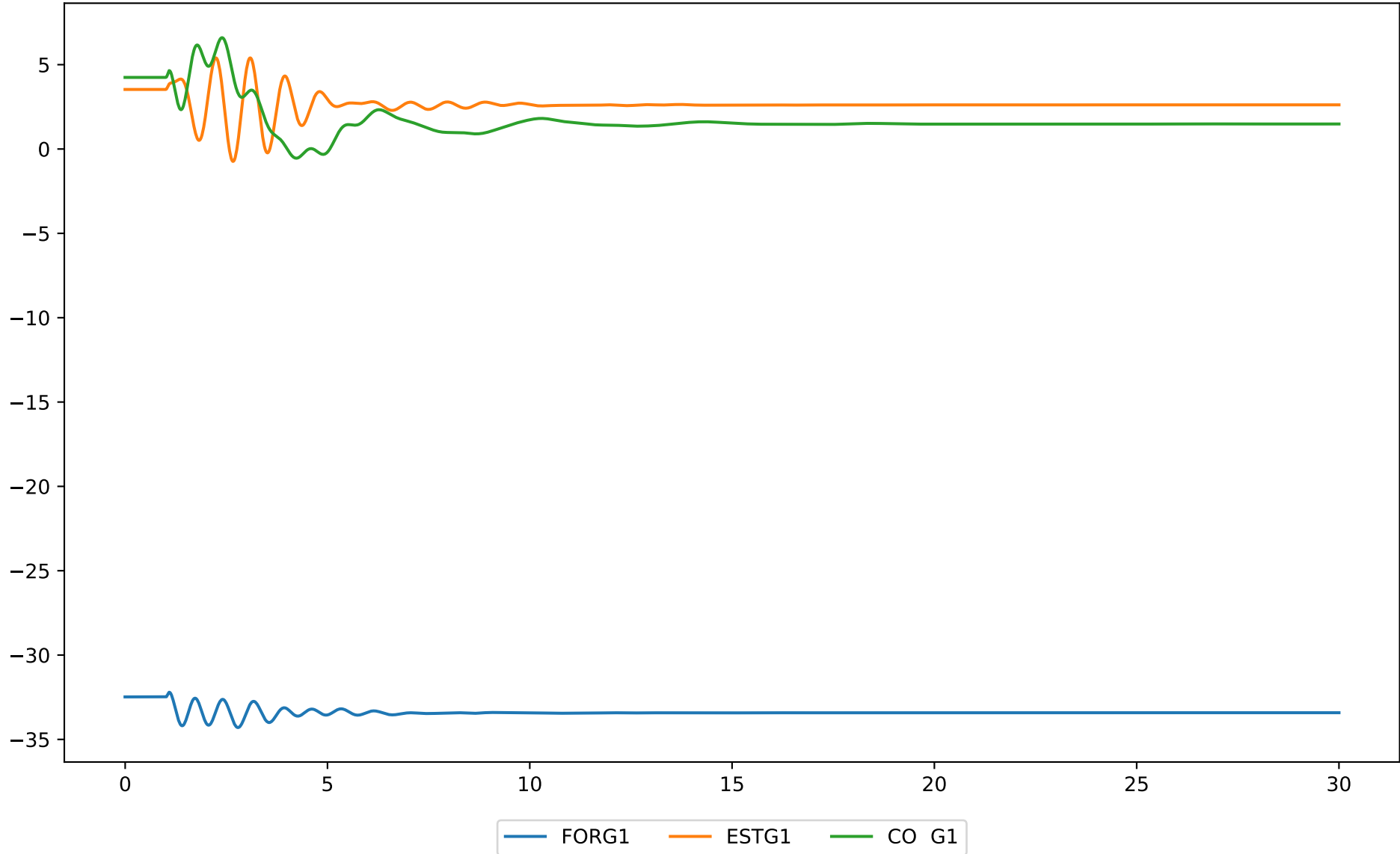
# Voltajes 230kV - Panama



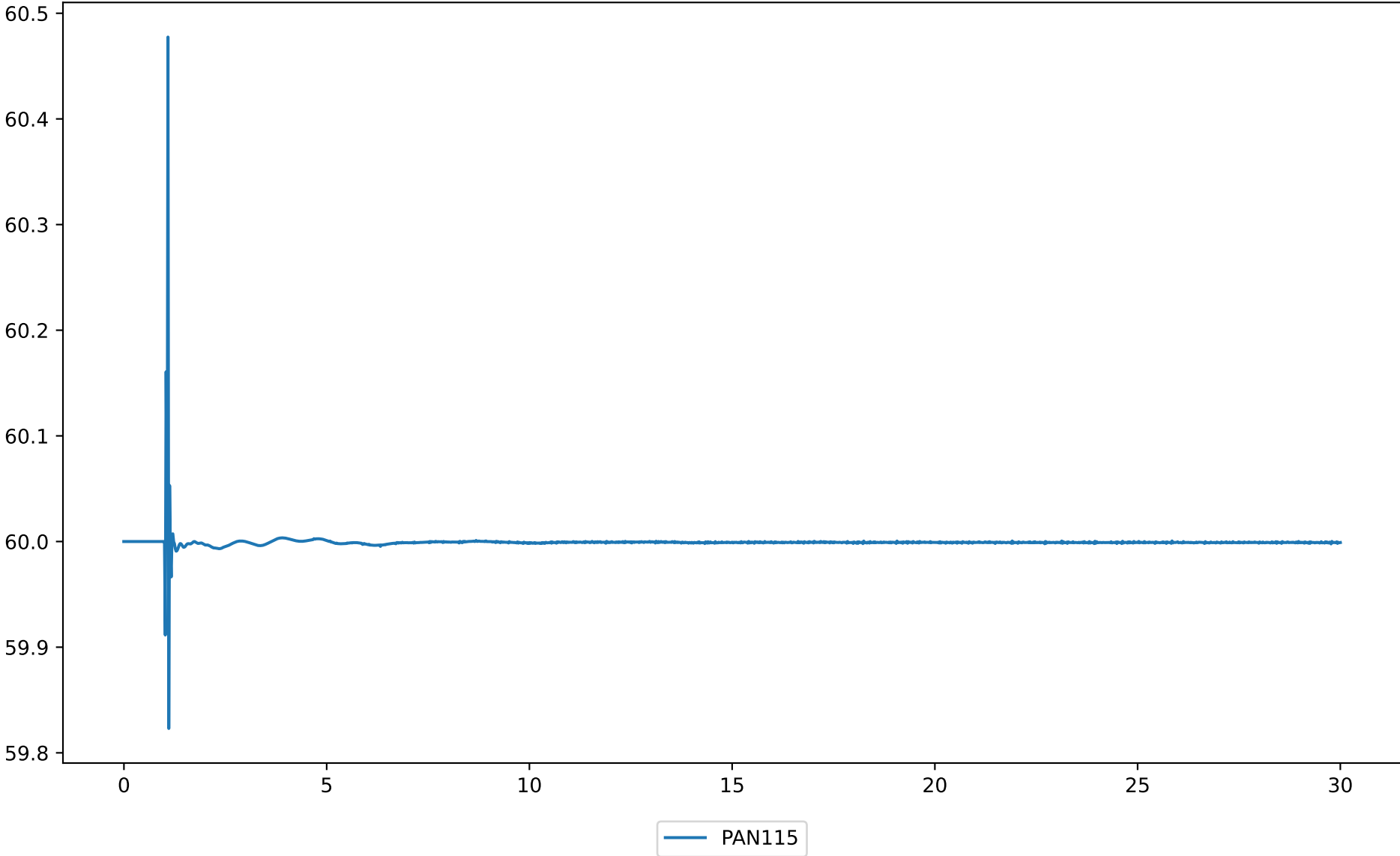
### Voltajes 115kV - Panama



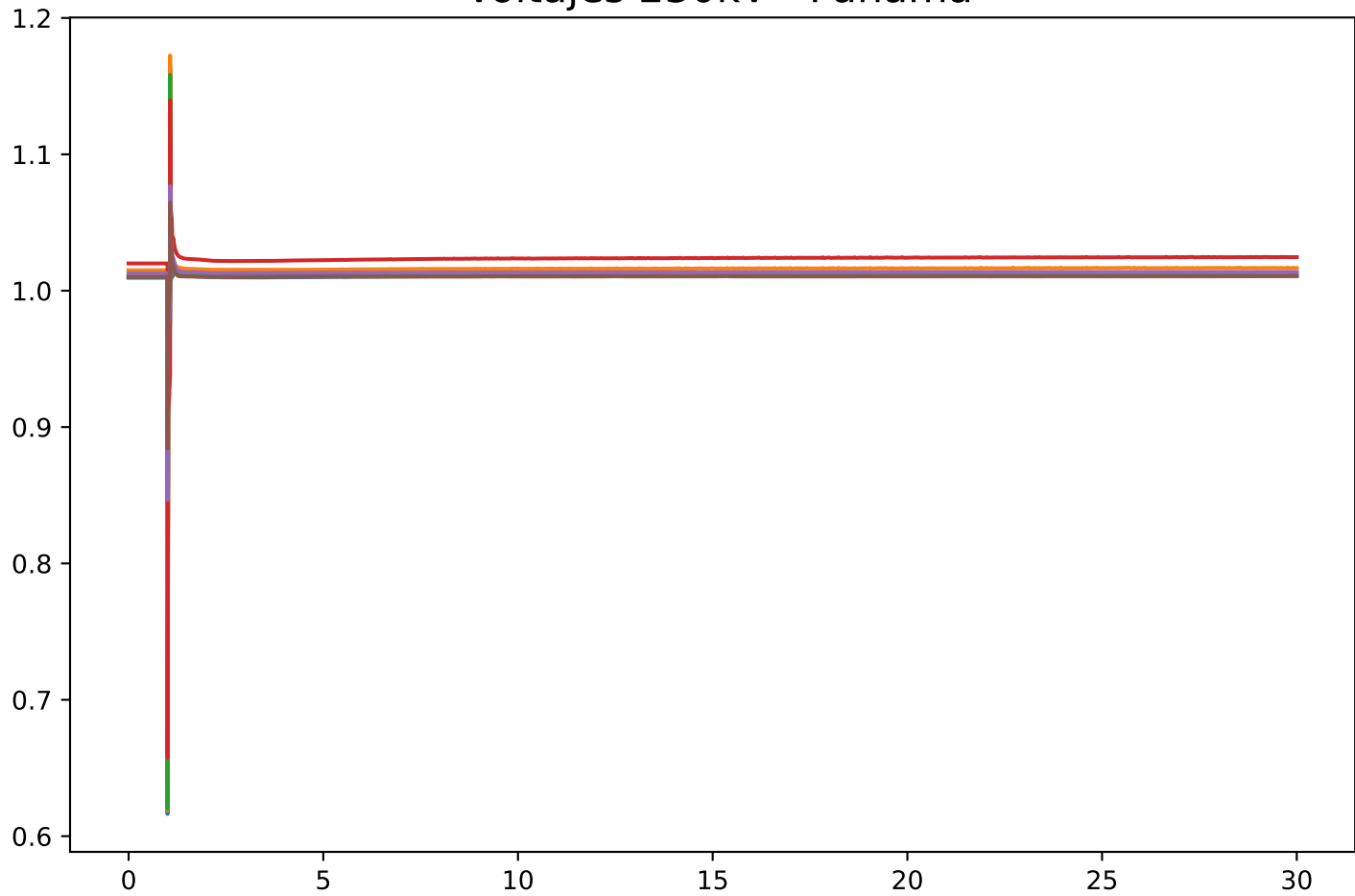
### Angulos de Rotacion de Maquinas - Panama



### Frecuencia (Hz)

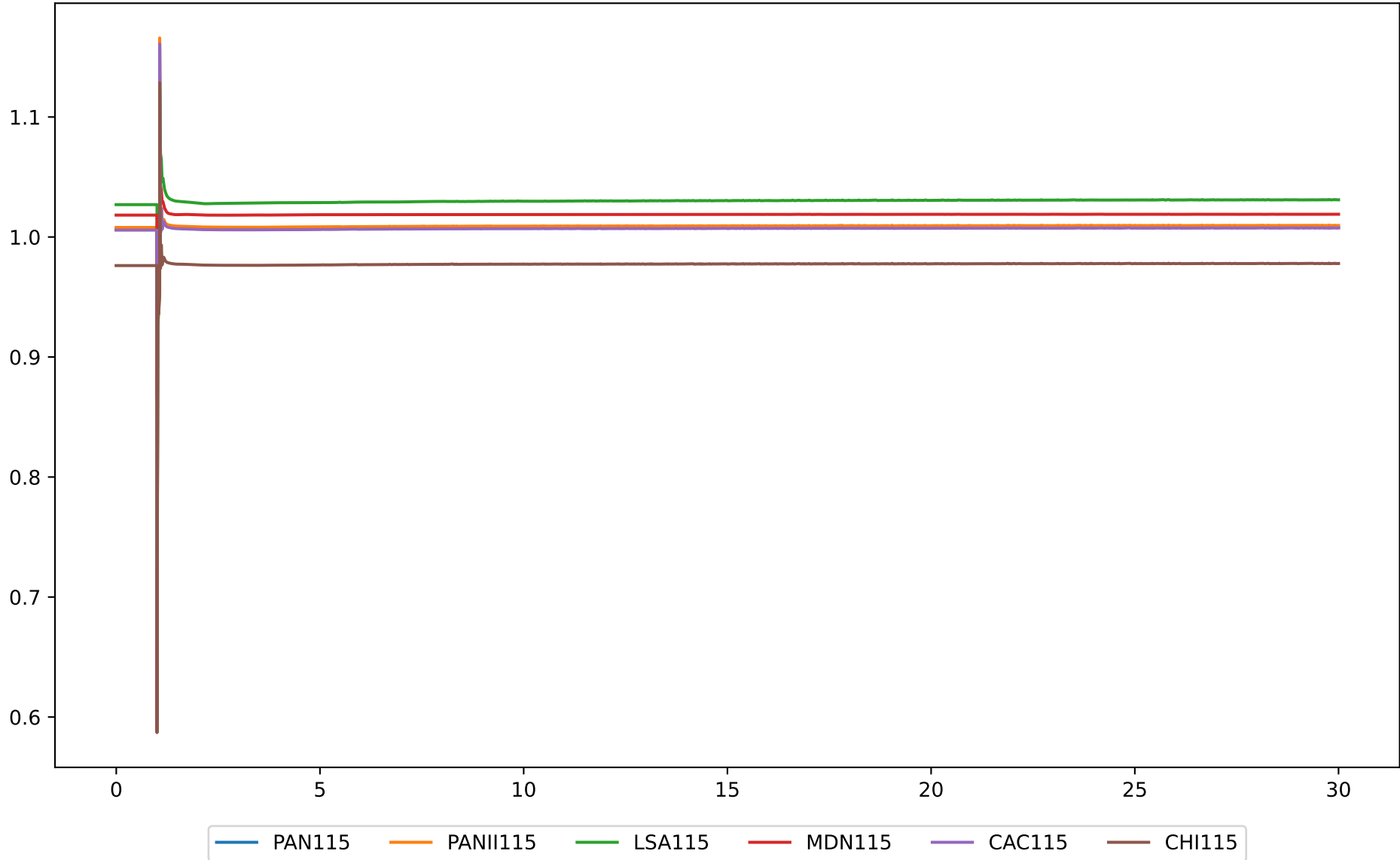


# Voltajes 230kV - Panama



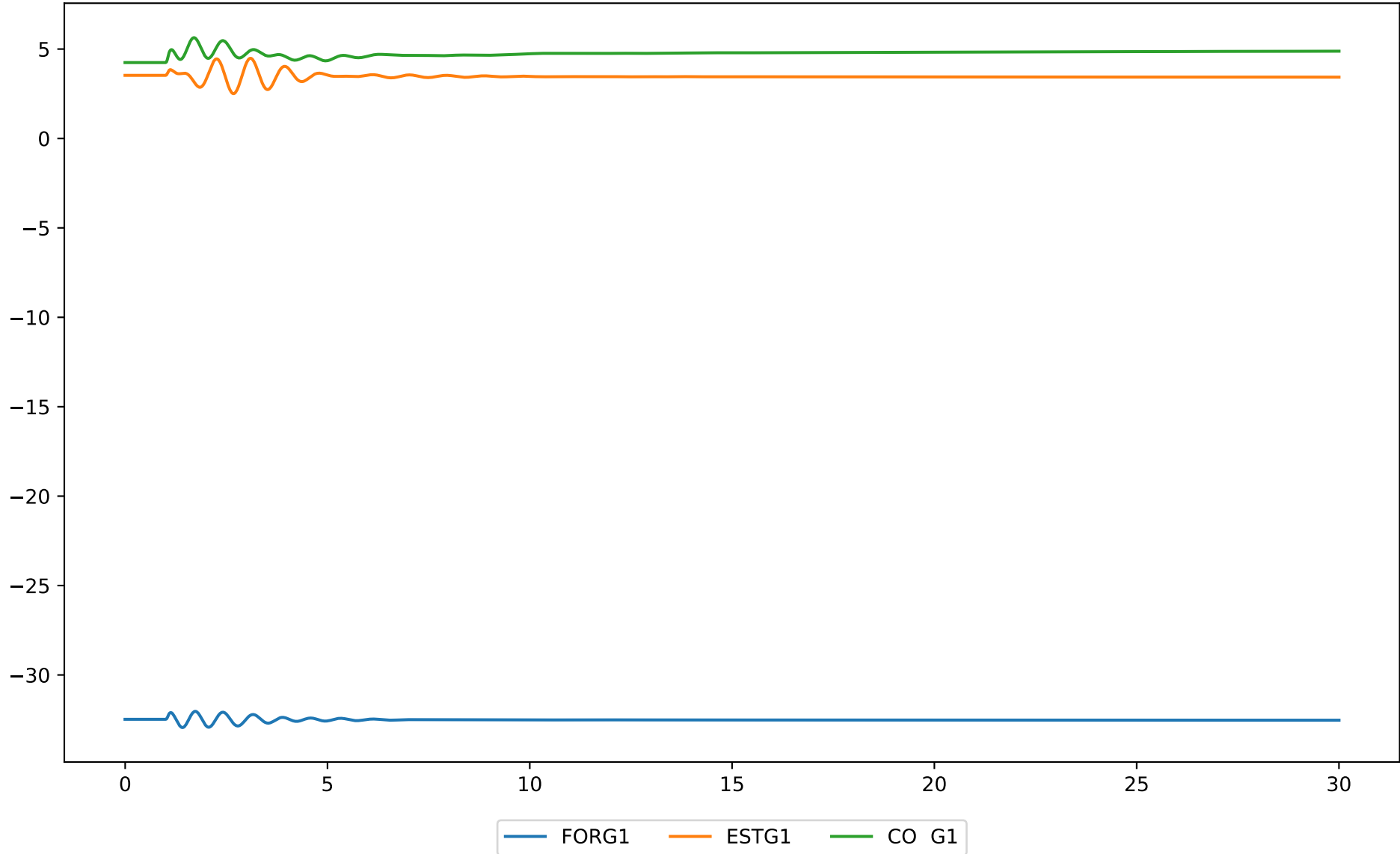


### Voltajes 115kV - Panama

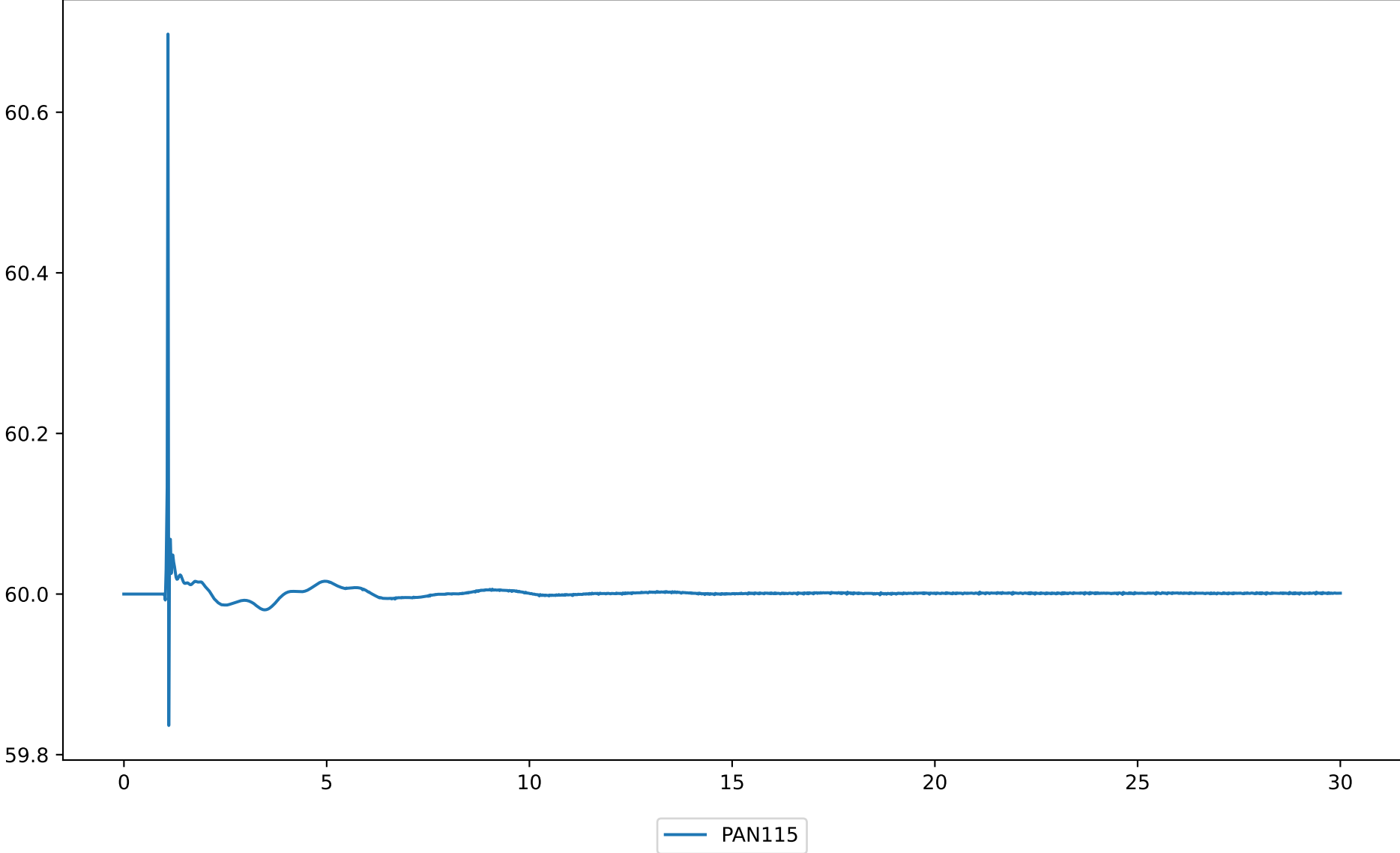


Caso: 1023-3-2027CA\_ModMax\_Lluv - Contingencia: 6812-6811-T4-C7\_STC-LSA

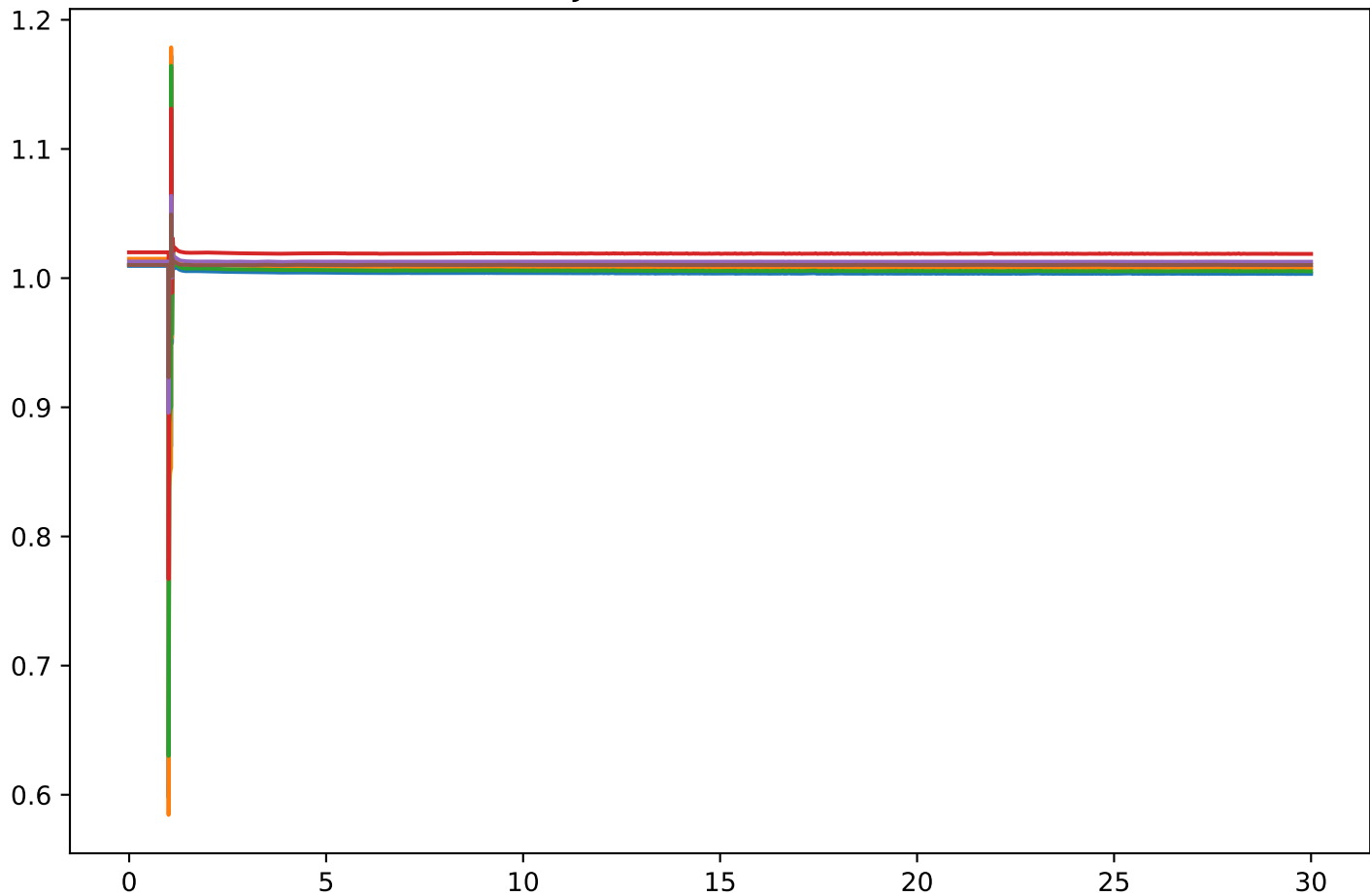
## Angulos de Rotacion de Maquinas - Panama



### Frecuencia (Hz)



# Voltajes 230kV - Panama



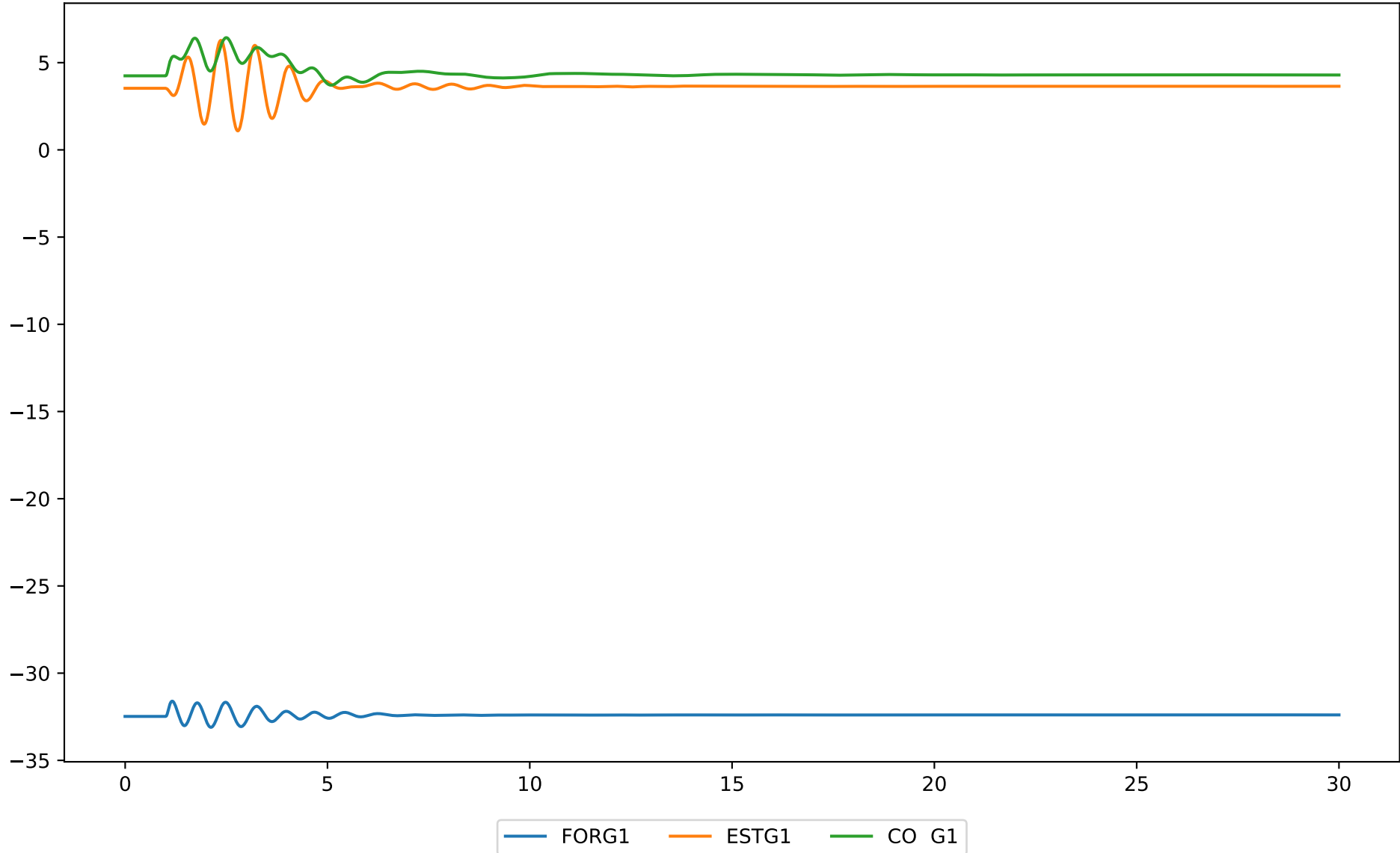
PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama

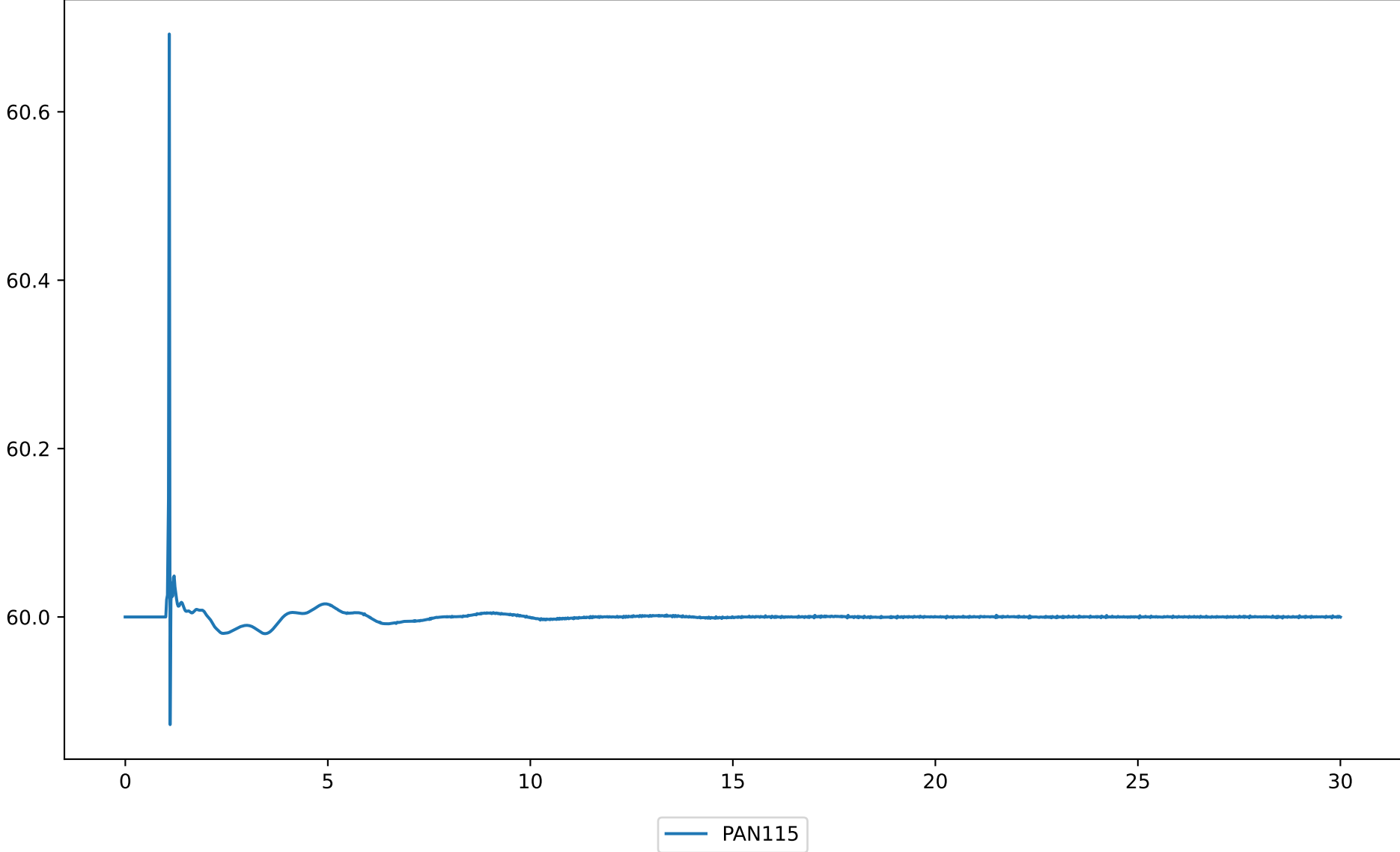


Caso: 1023-3-2027CA\_ModMax\_Lluv - Contingencia: 6817-6816-T4-C8\_STC-PANII

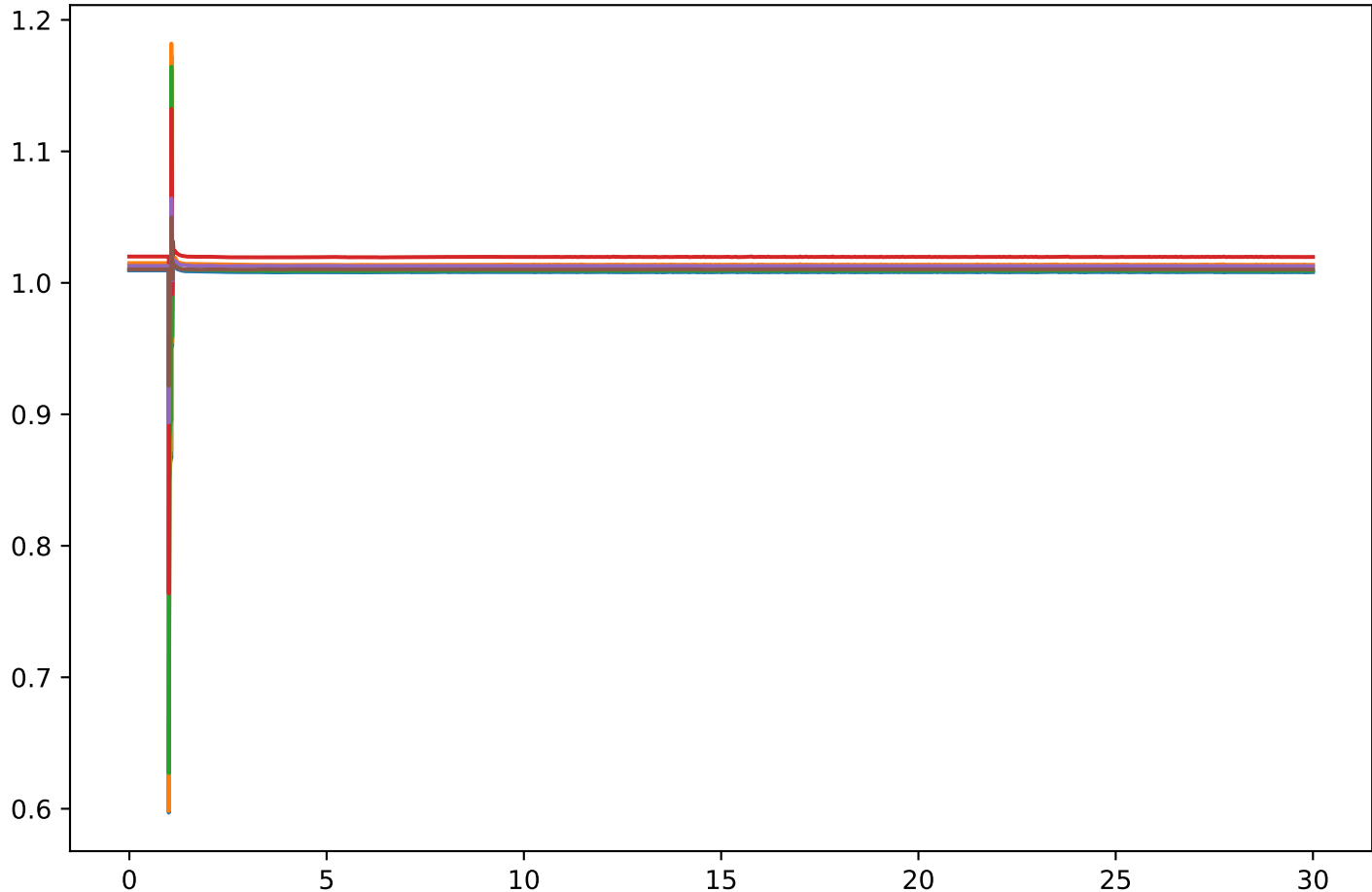
## Angulos de Rotacion de Maquinas - Panama



### Frecuencia (Hz)



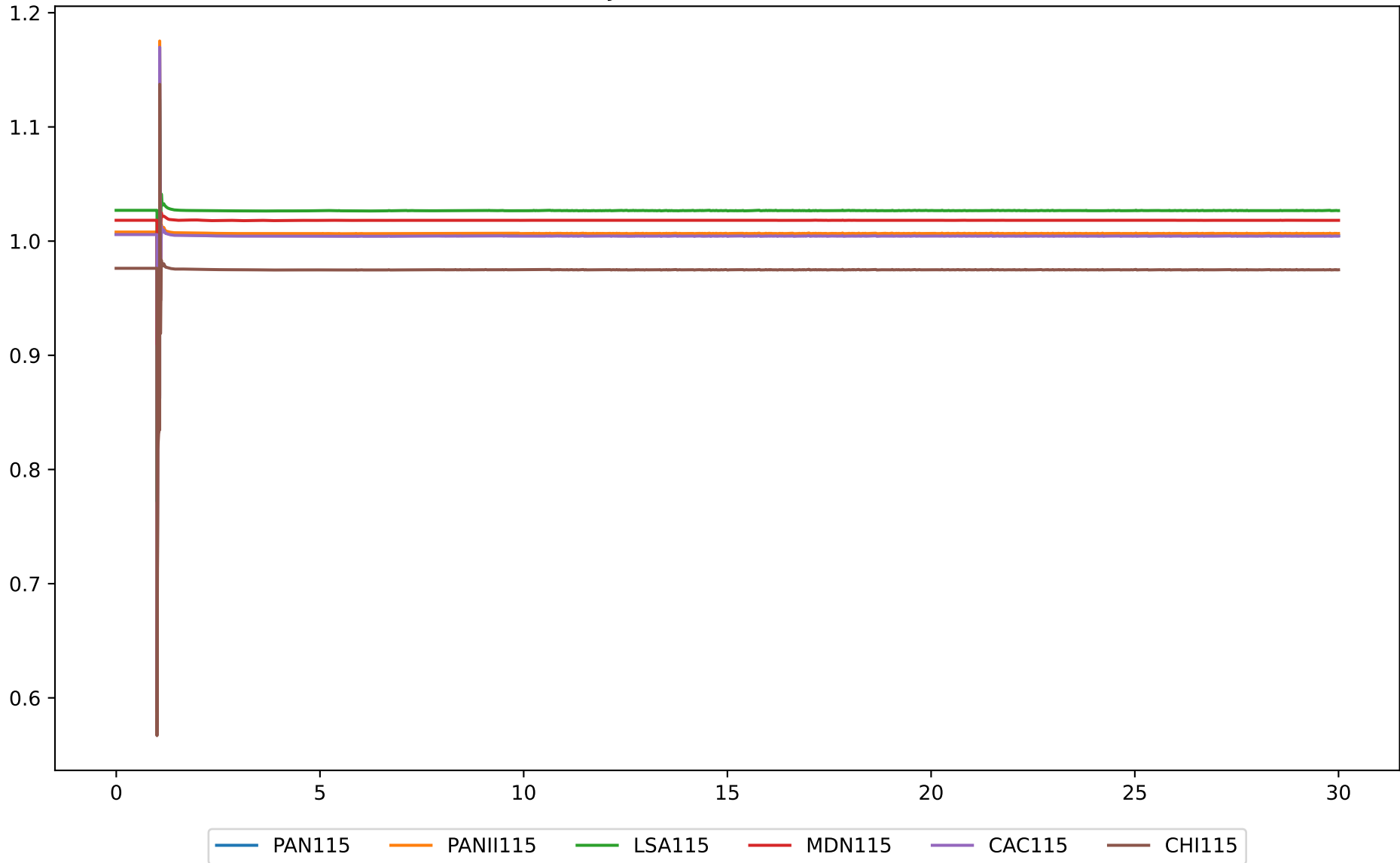
# Voltajes 230kV - Panama



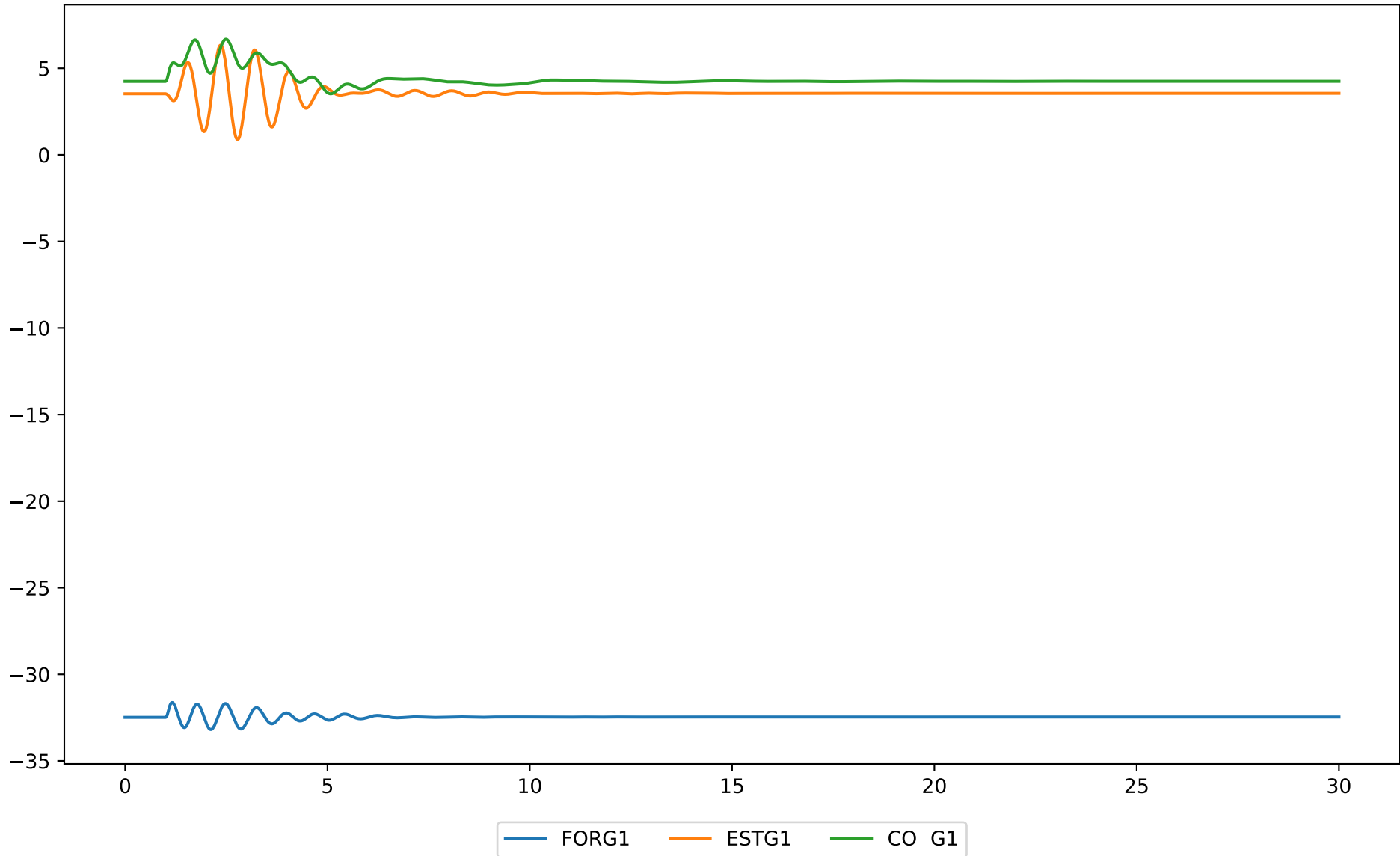
PAN230 PANII230 CHO230 LSA230 MDN230 PRO230



### Voltajes 115kV - Panama

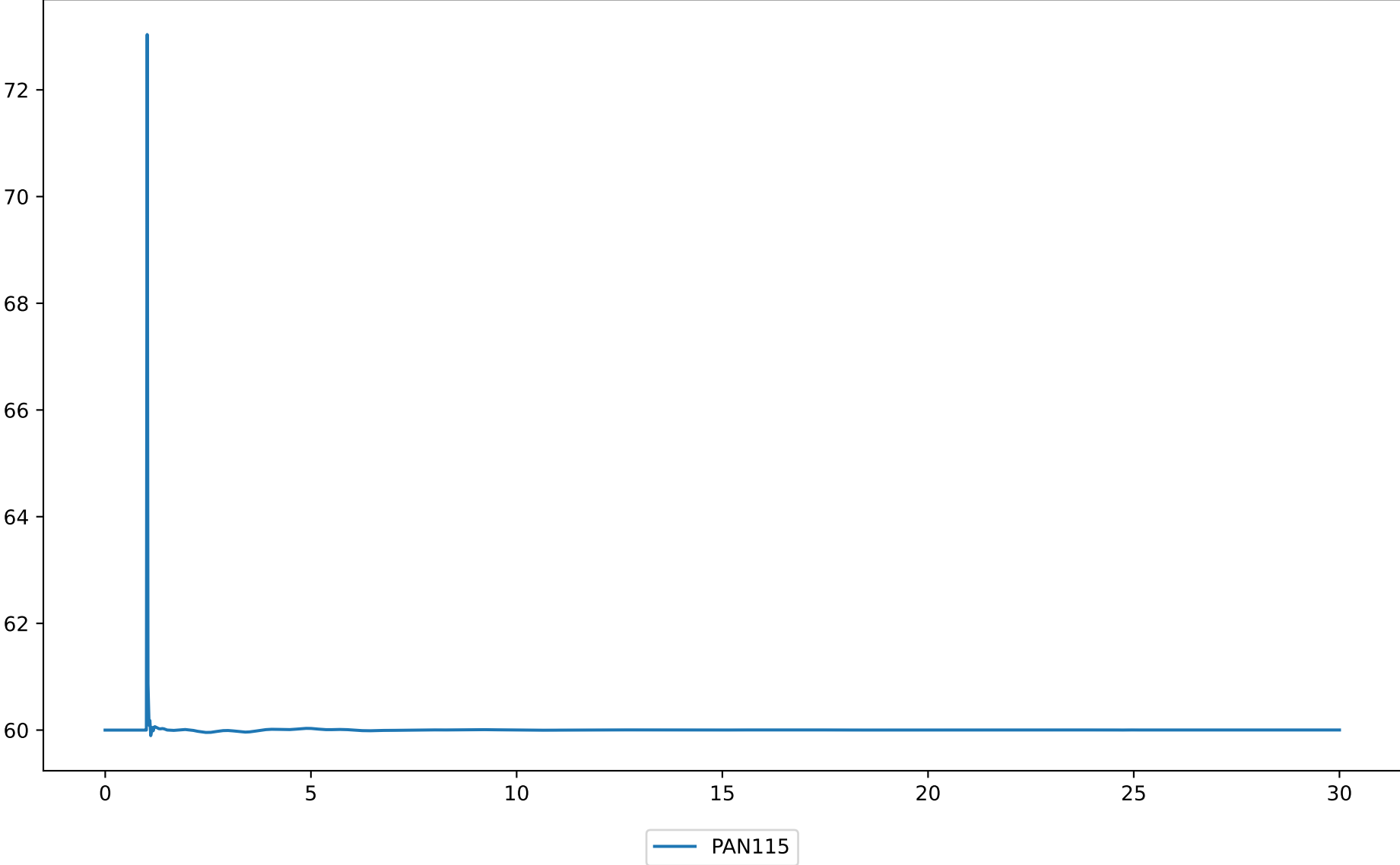


### Angulos de Rotacion de Maquinas - Panama

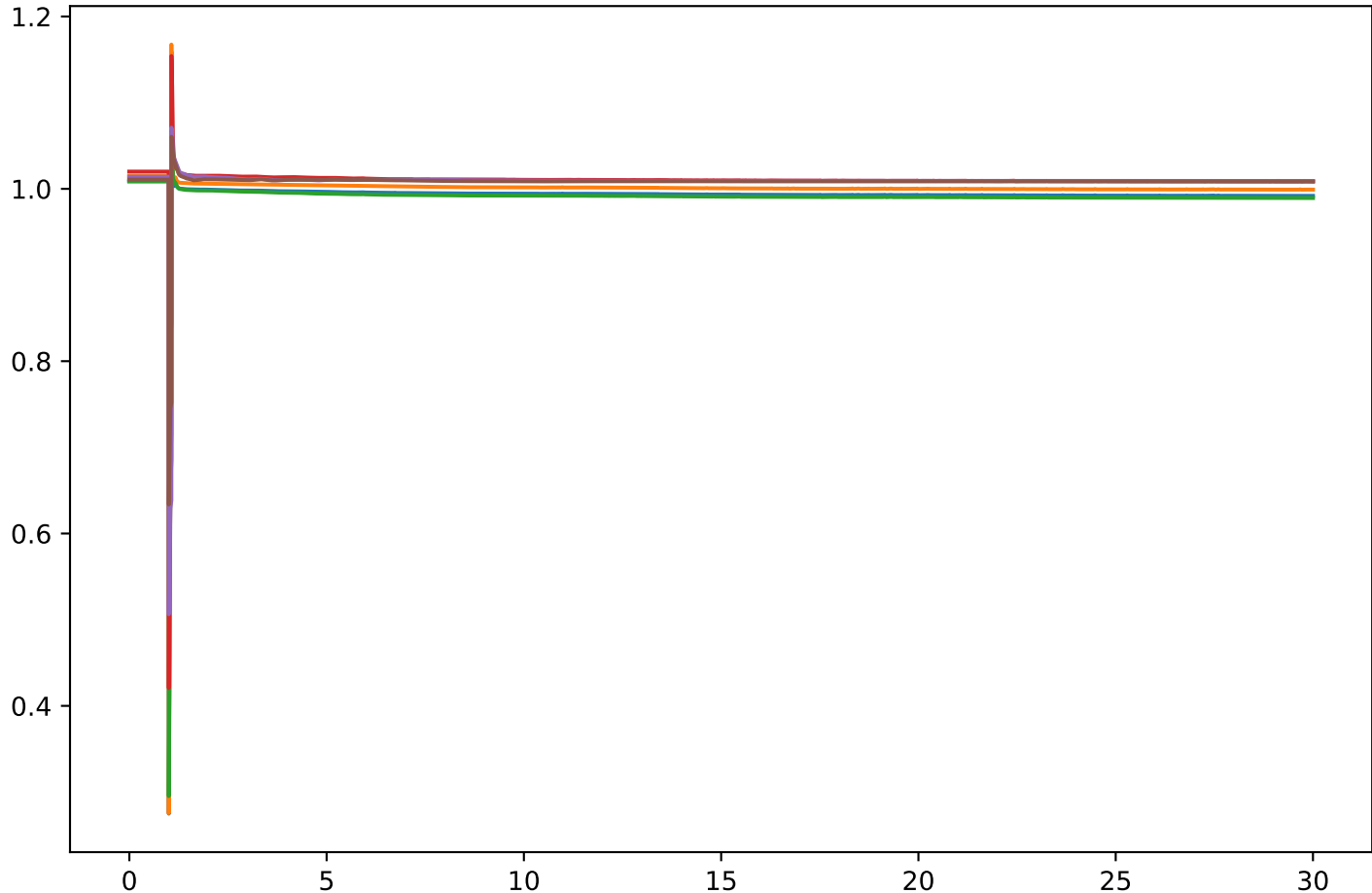


**2028 LLUVIOSA**

### Frecuencia (Hz)



# Voltajes 230kV - Panama

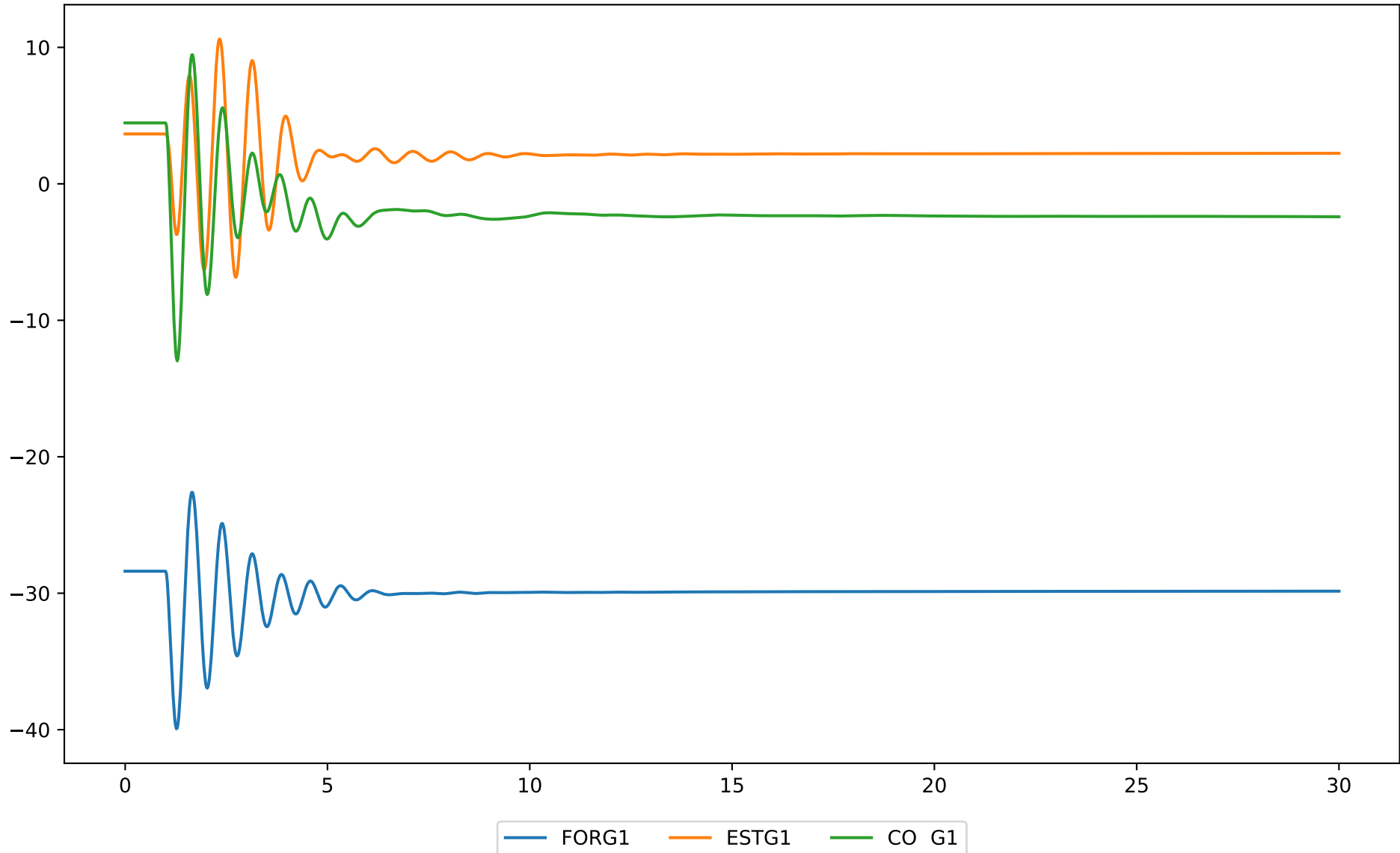


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

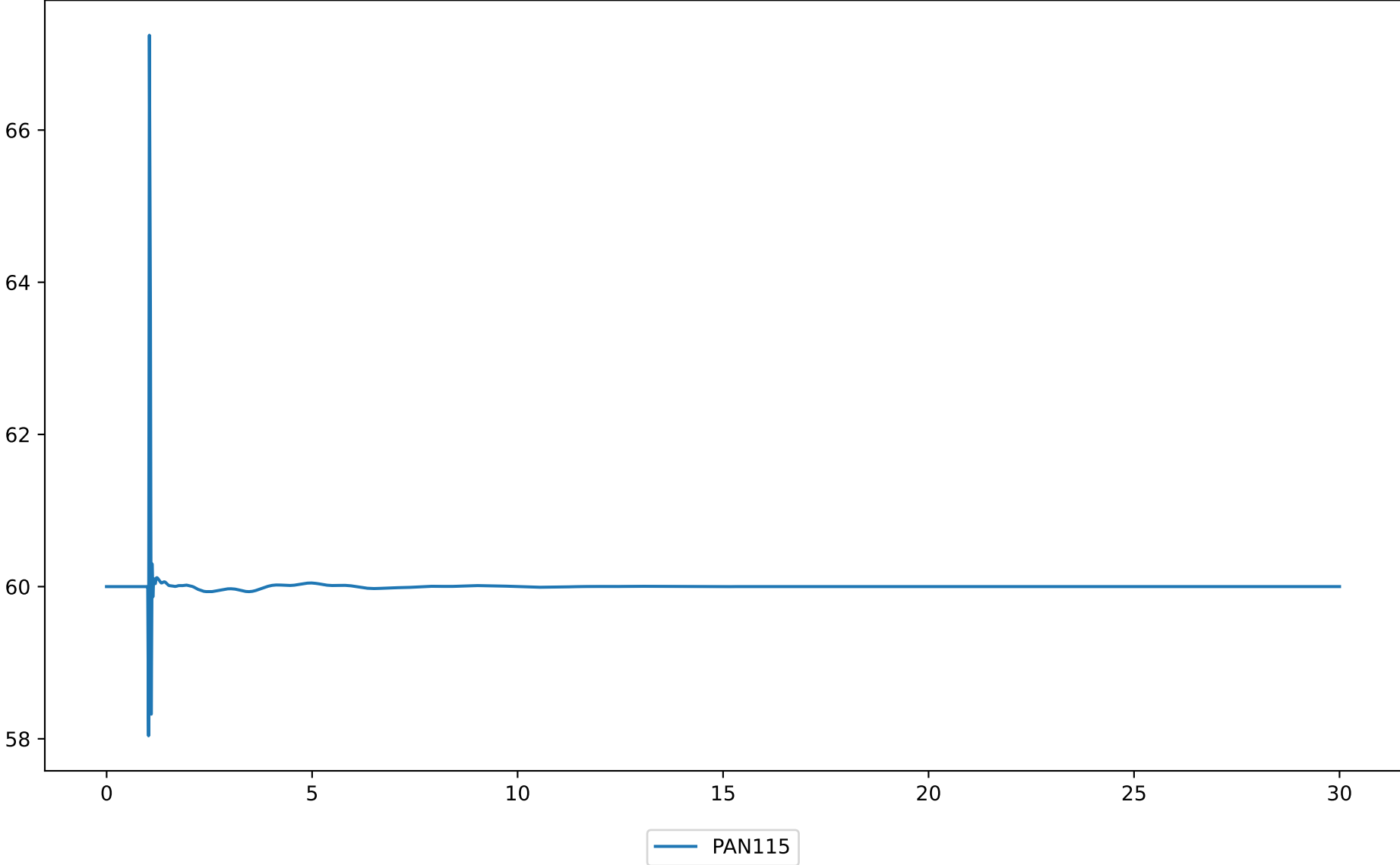
### Voltajes 115kV - Panama



### Angulos de Rotacion de Maquinas - Panama

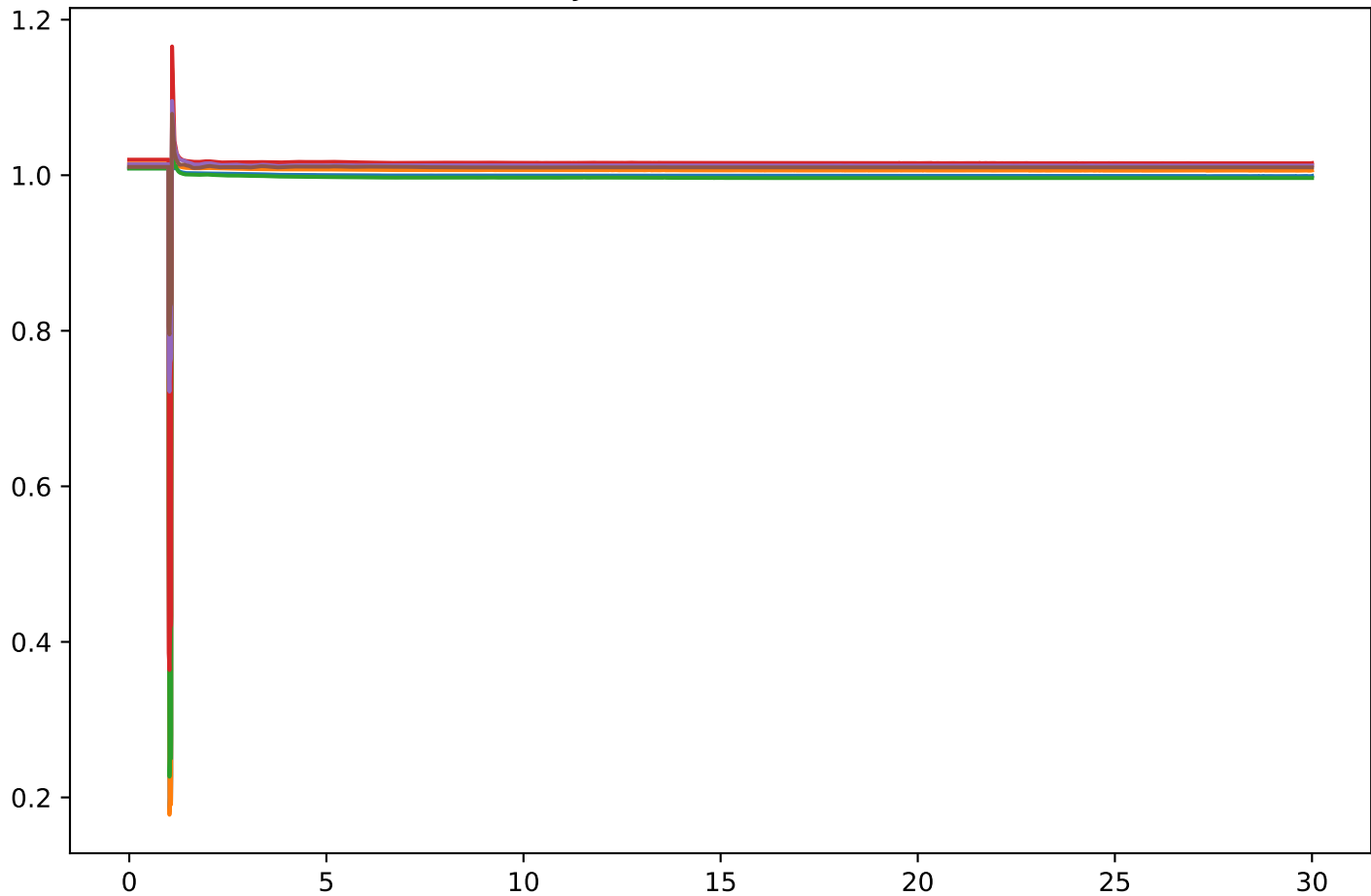


### Frecuencia (Hz)



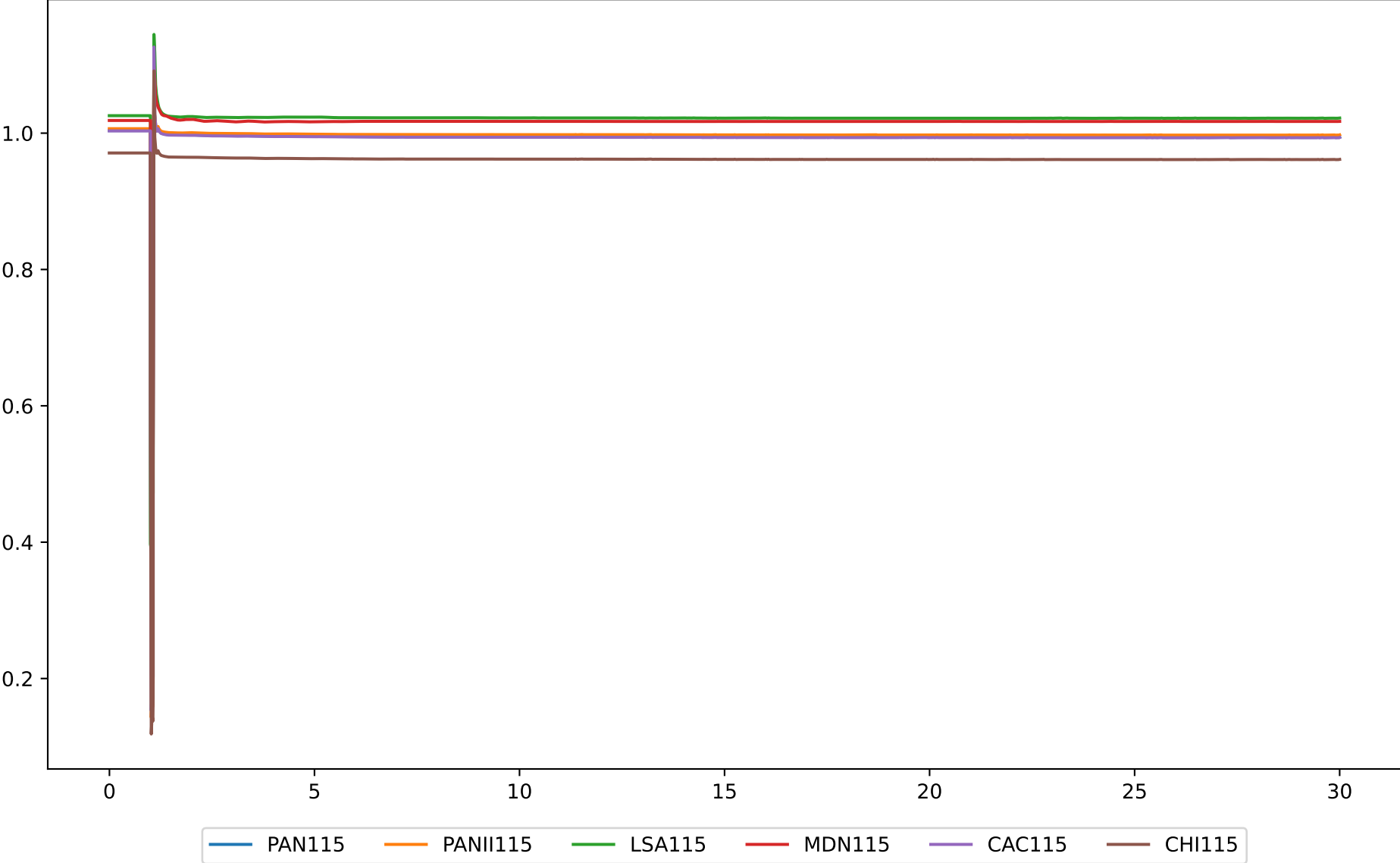


# Voltajes 230kV - Panama

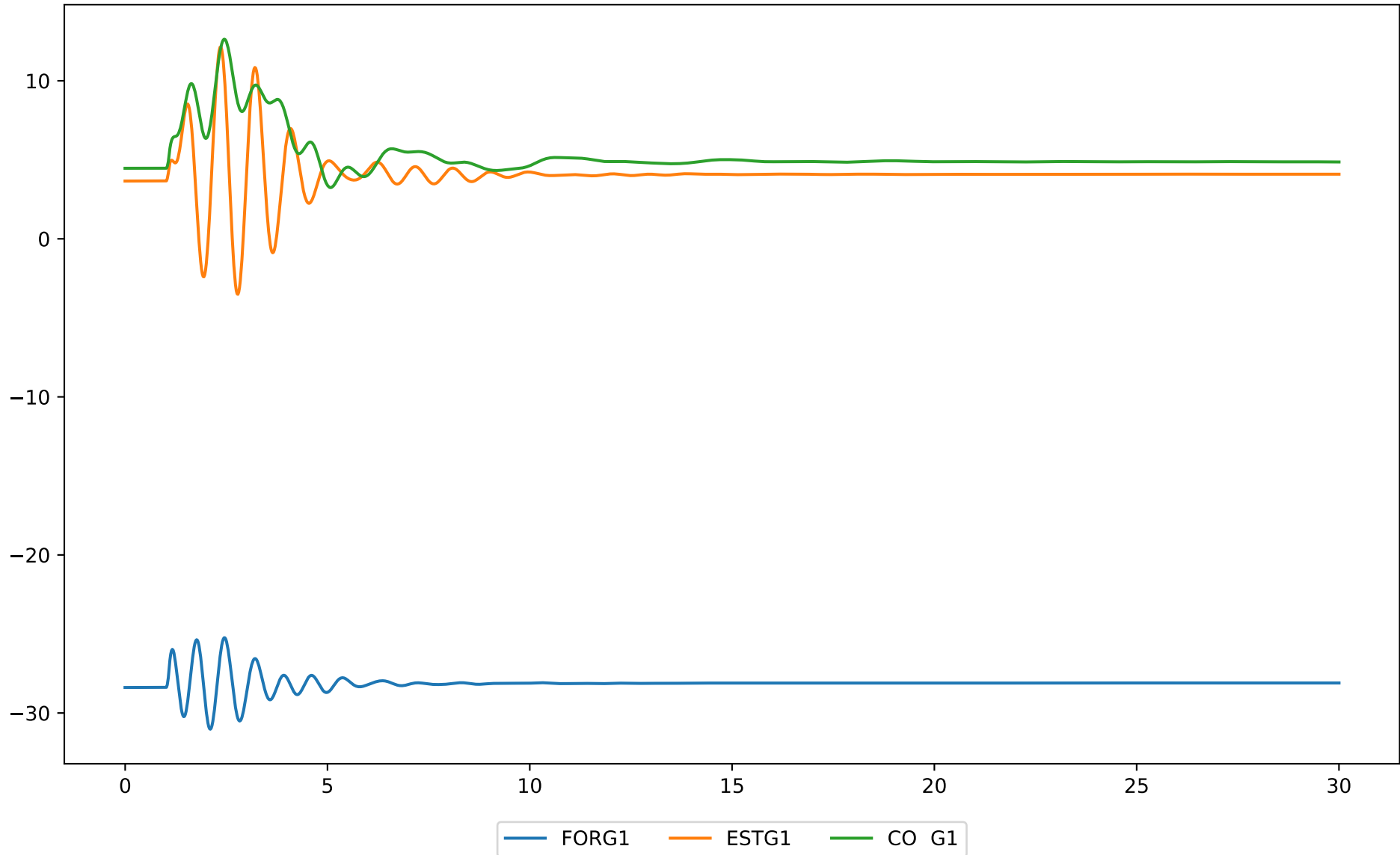


PAN230    PANII230    CHO230    LSA230    MDN230    PRO230

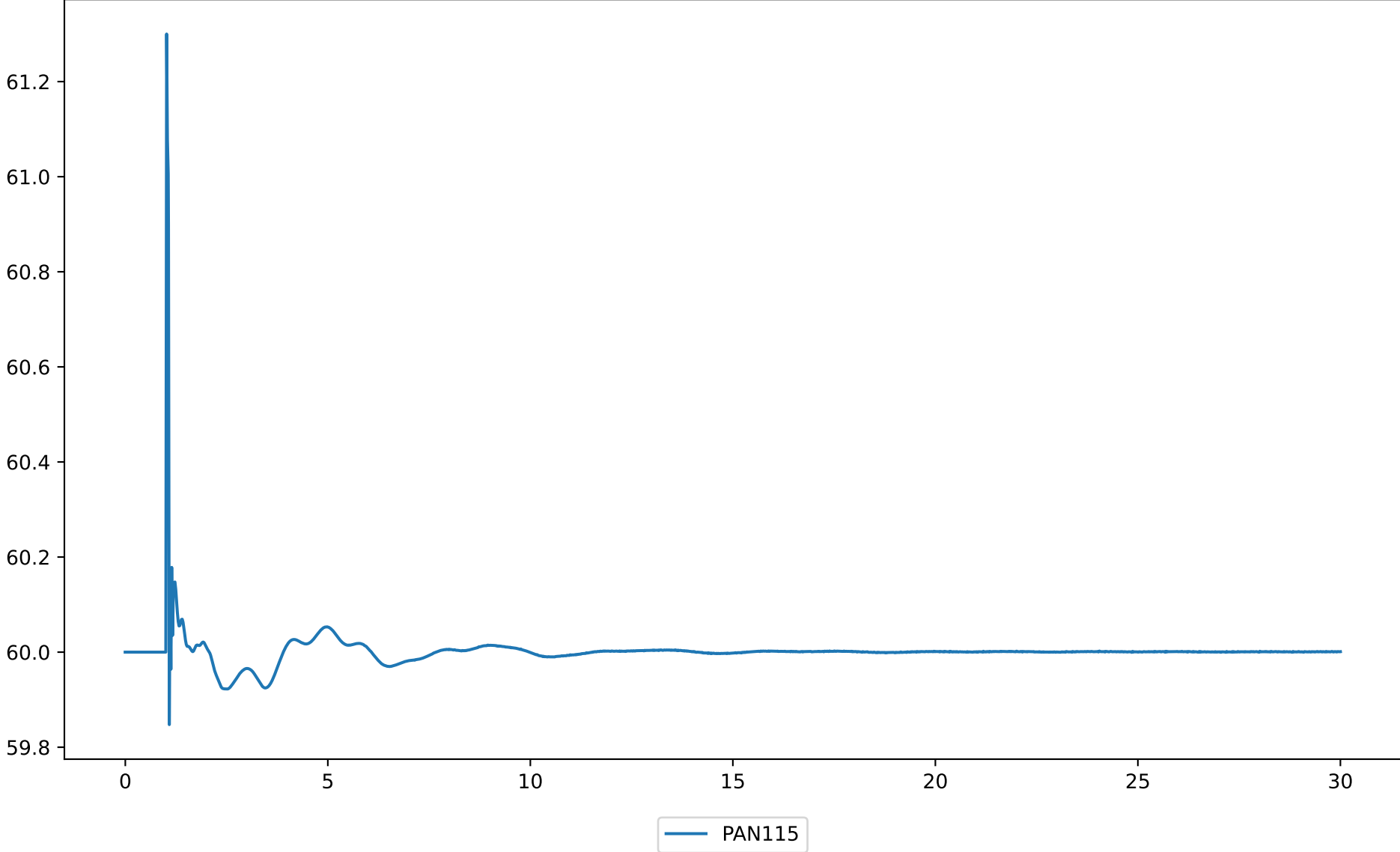
### Voltajes 115kV - Panama



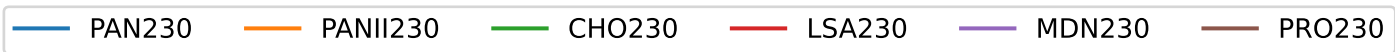
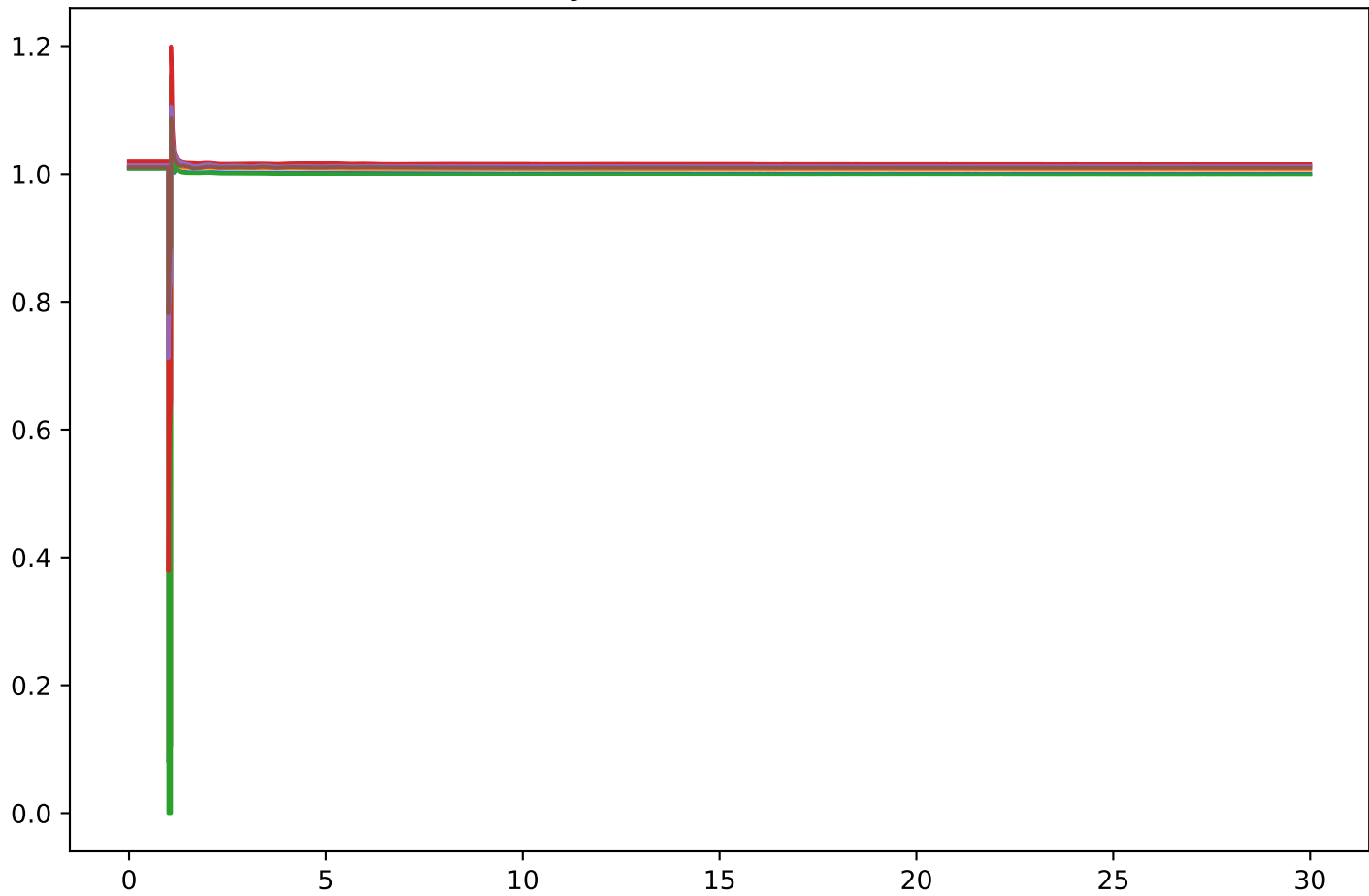
### Angulos de Rotacion de Maquinas - Panama



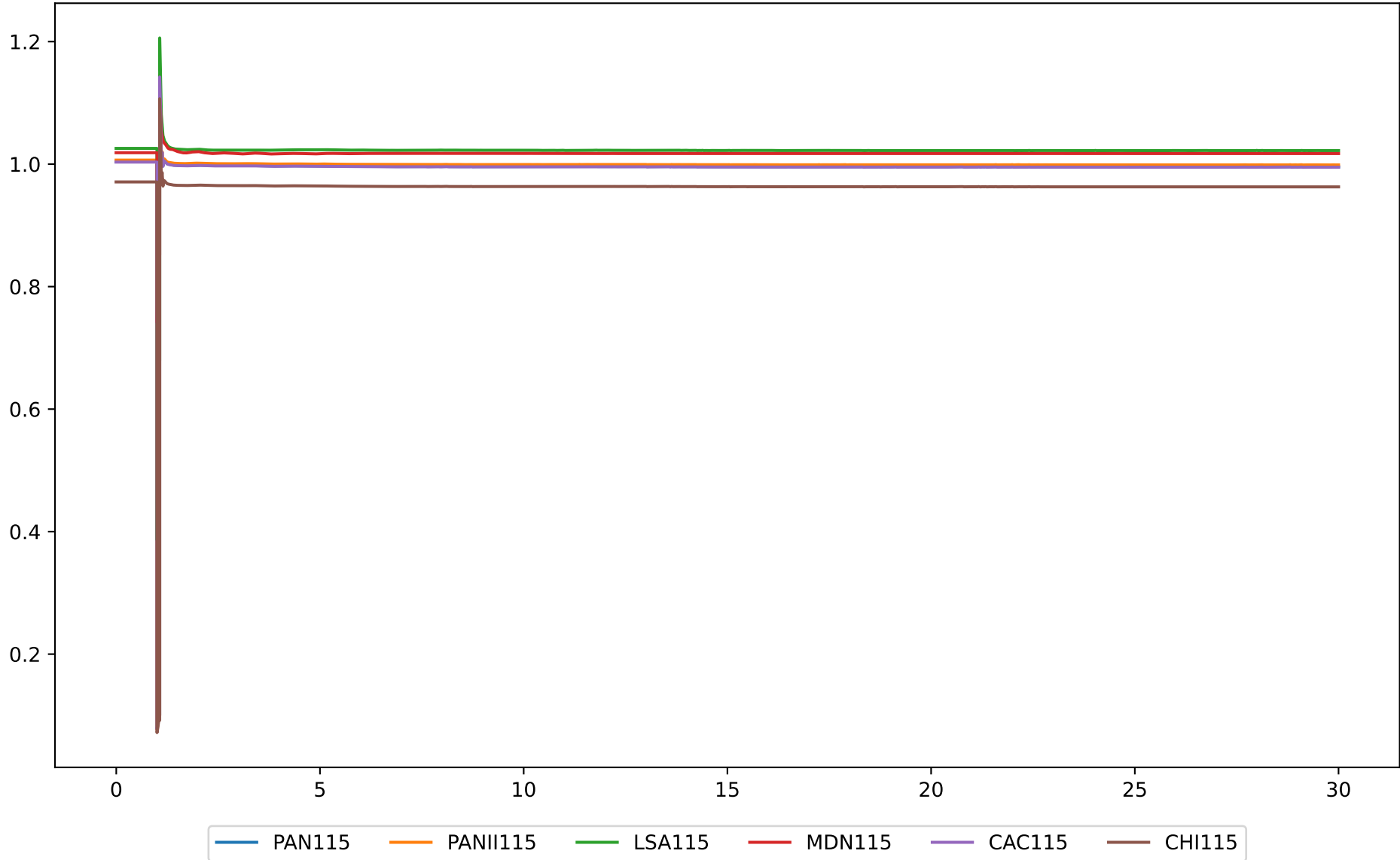
### Frecuencia (Hz)



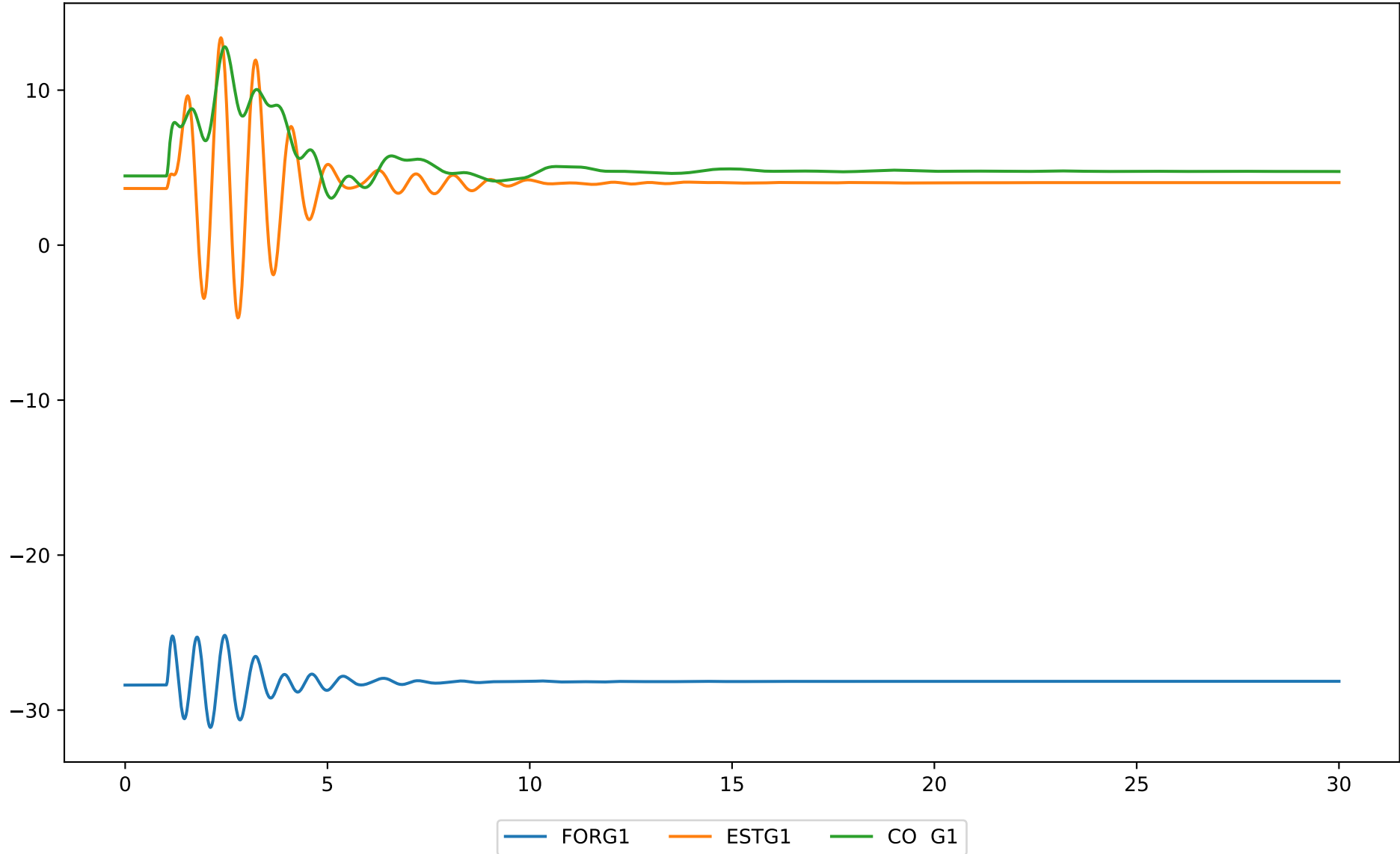
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

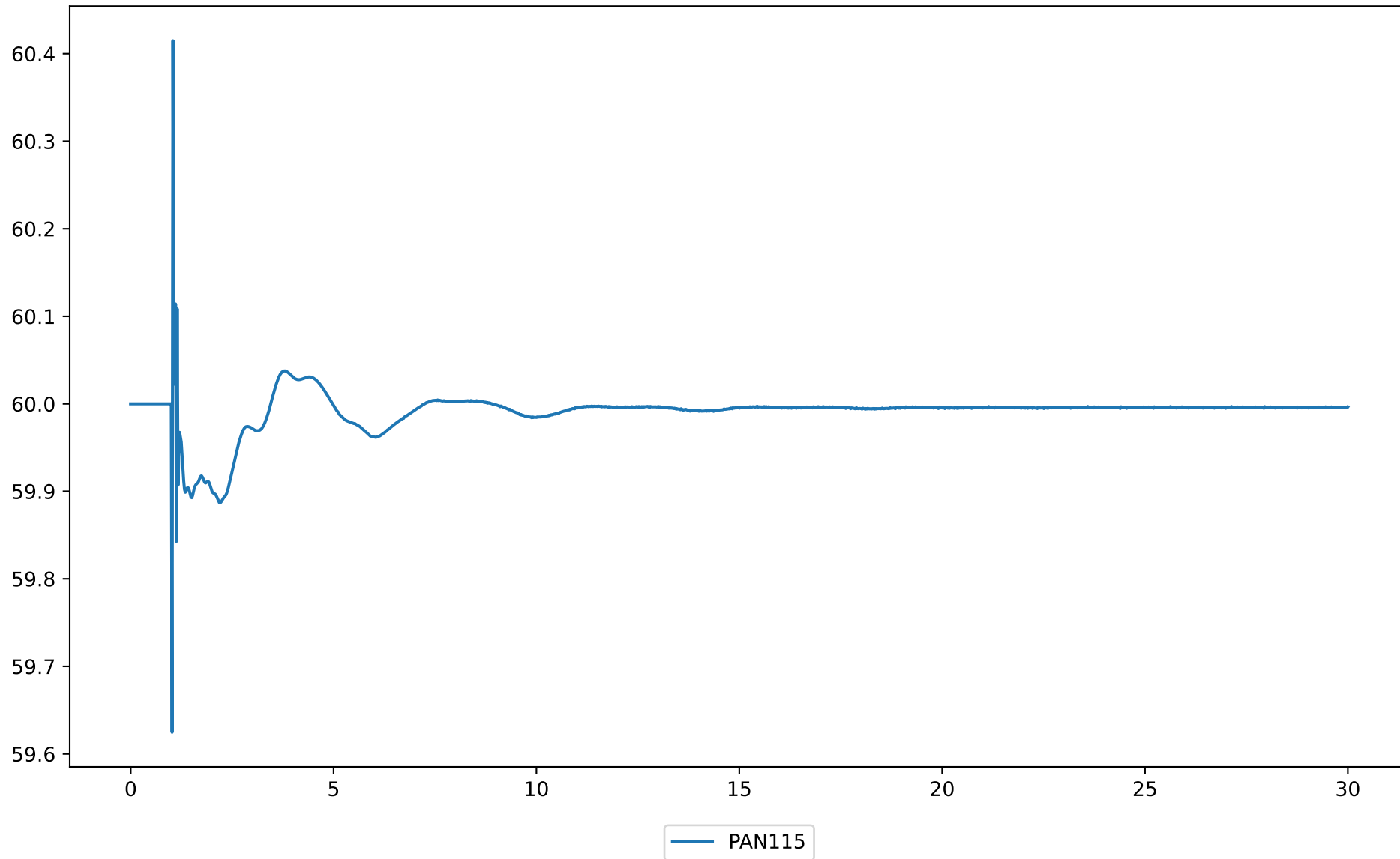


### Angulos de Rotacion de Maquinas - Panama



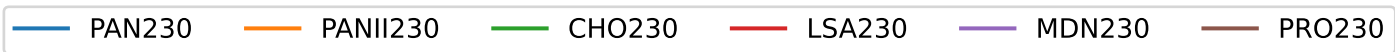
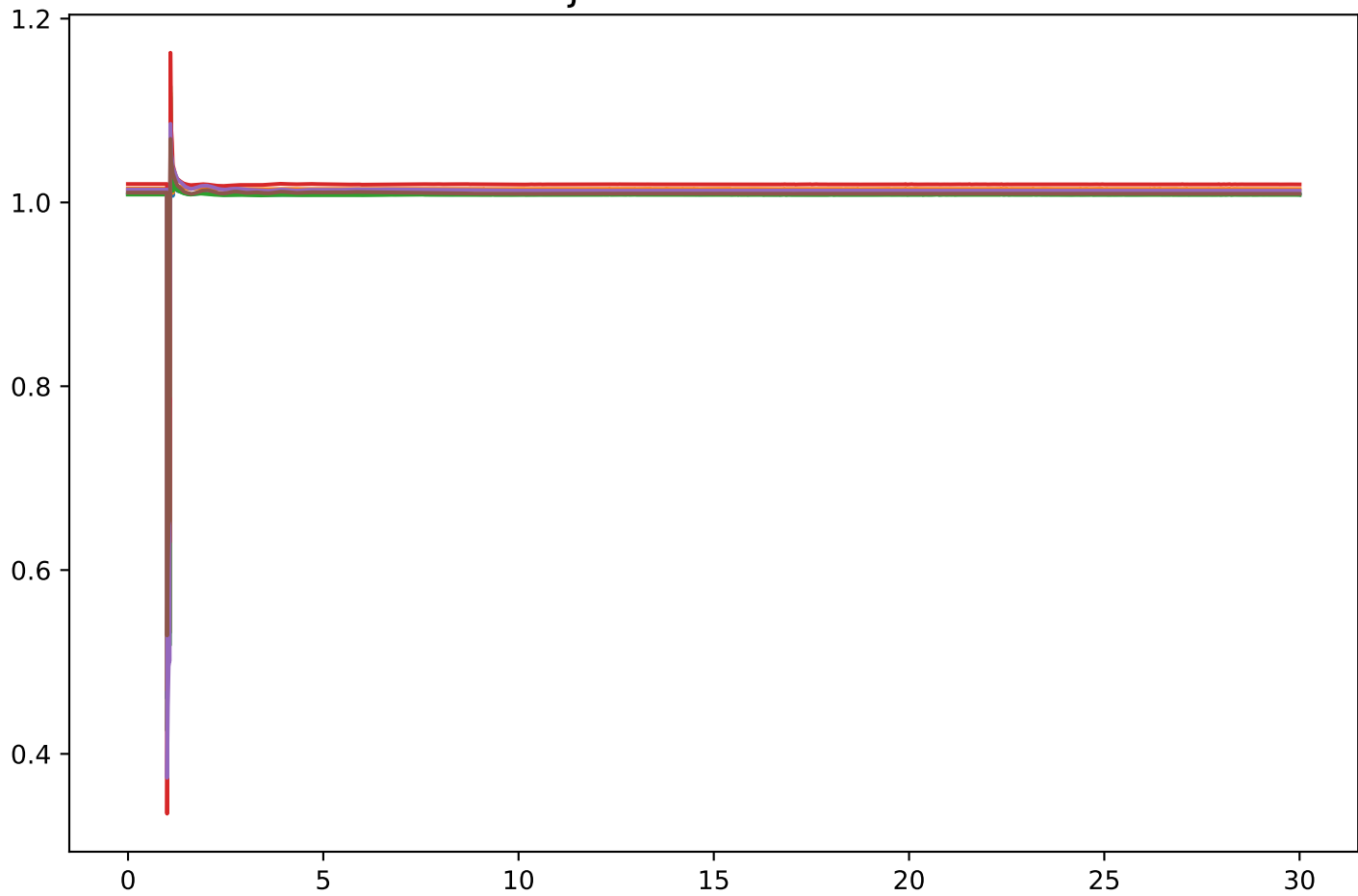
Caso: 1023-3-2028CA\_ModMax\_Lluv - Contingencia: 6178-6179-19-C4\_ESTI

## Frecuencia (Hz)

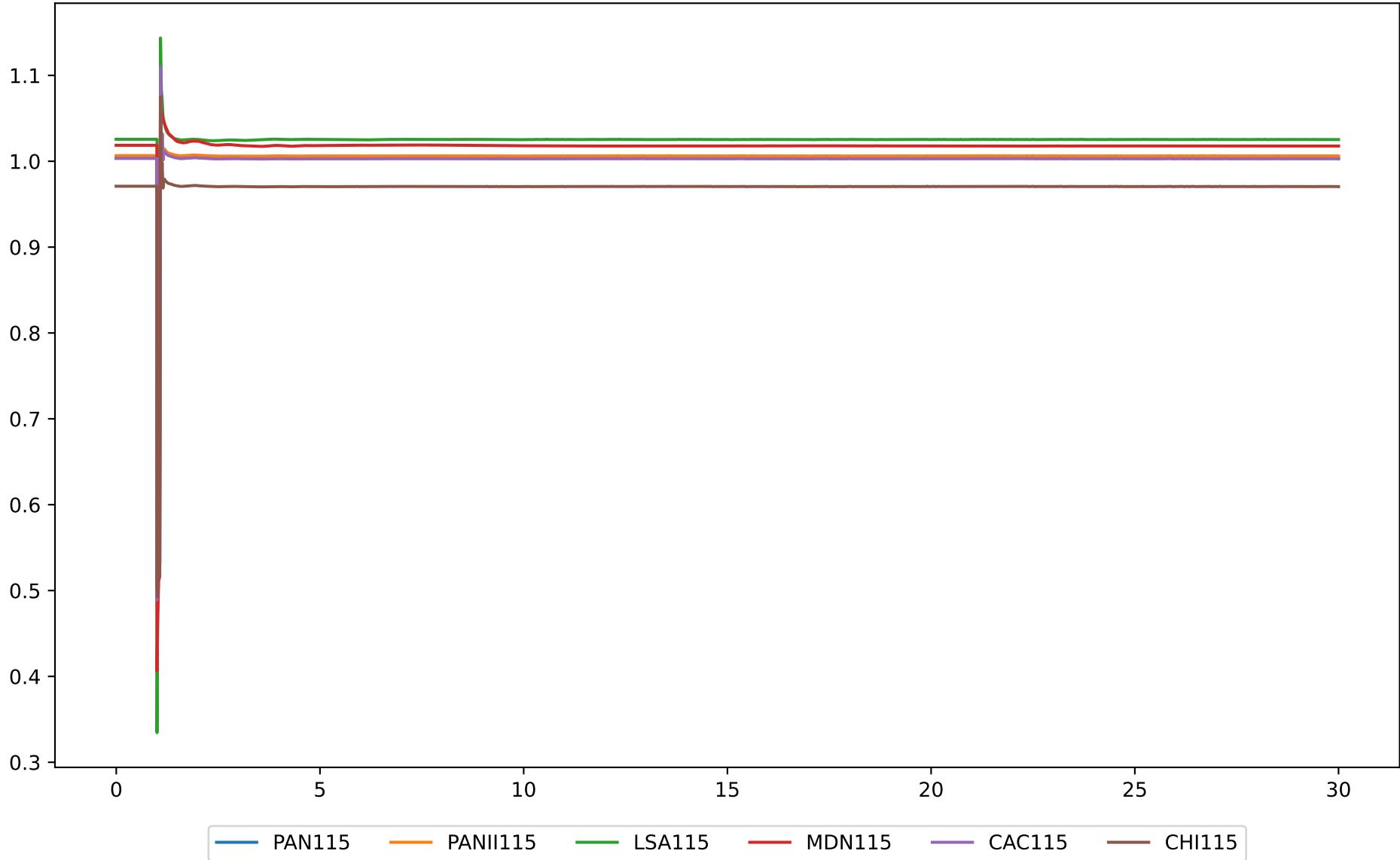




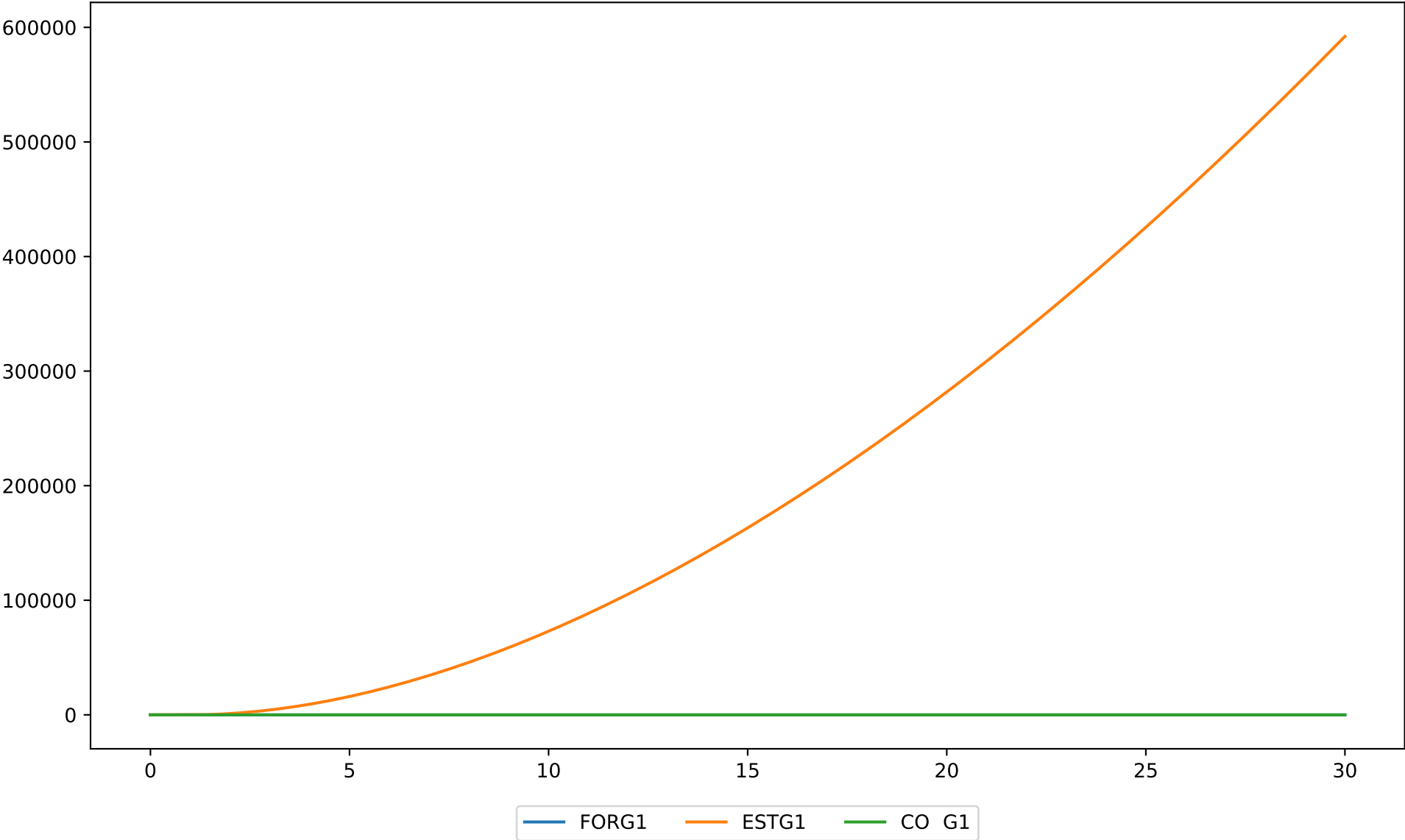
# Voltajes 230kV - Panama



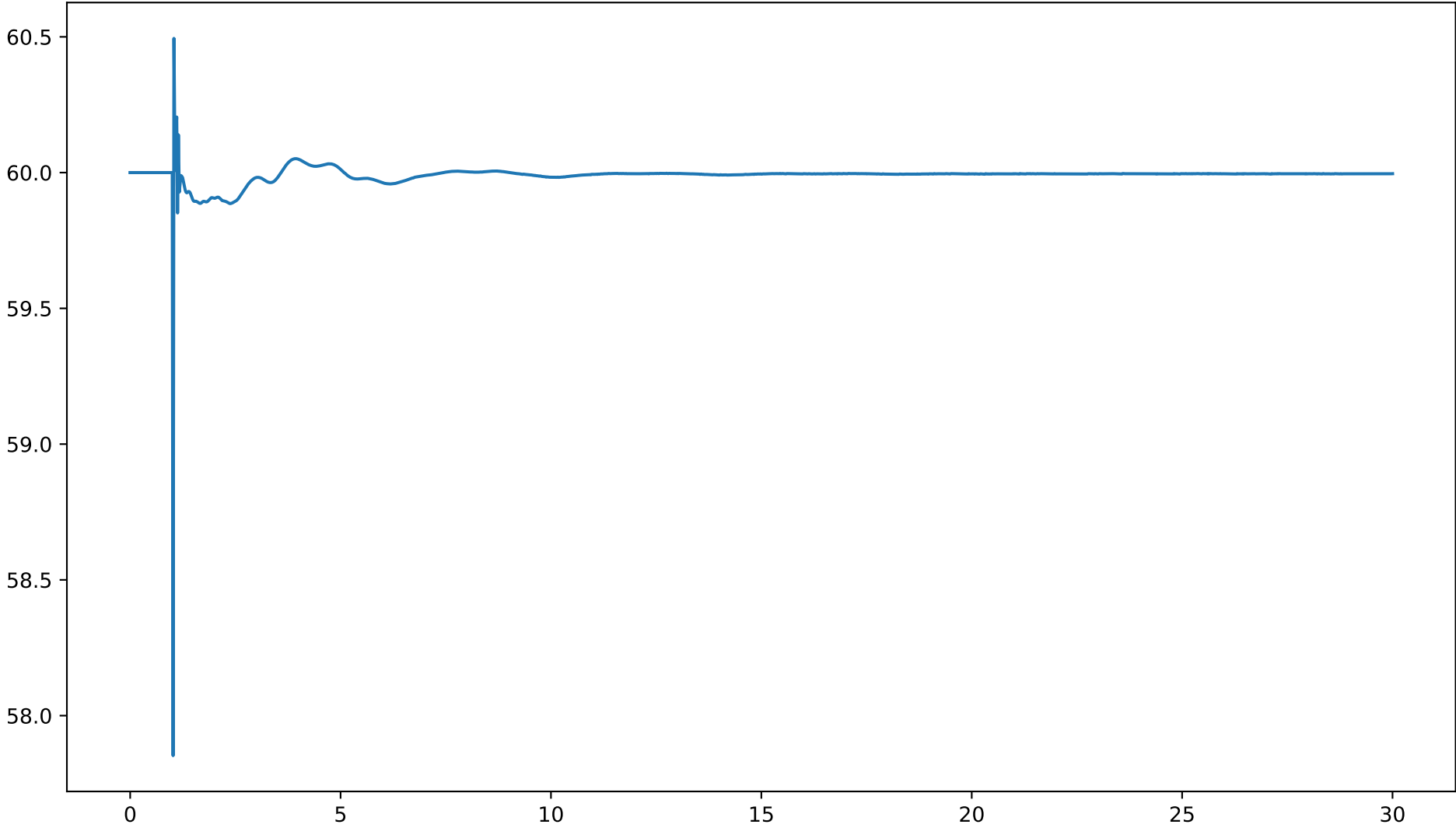
### Voltajes 115kV - Panama



### Angulos de Rotacion de Maquinas - Panama

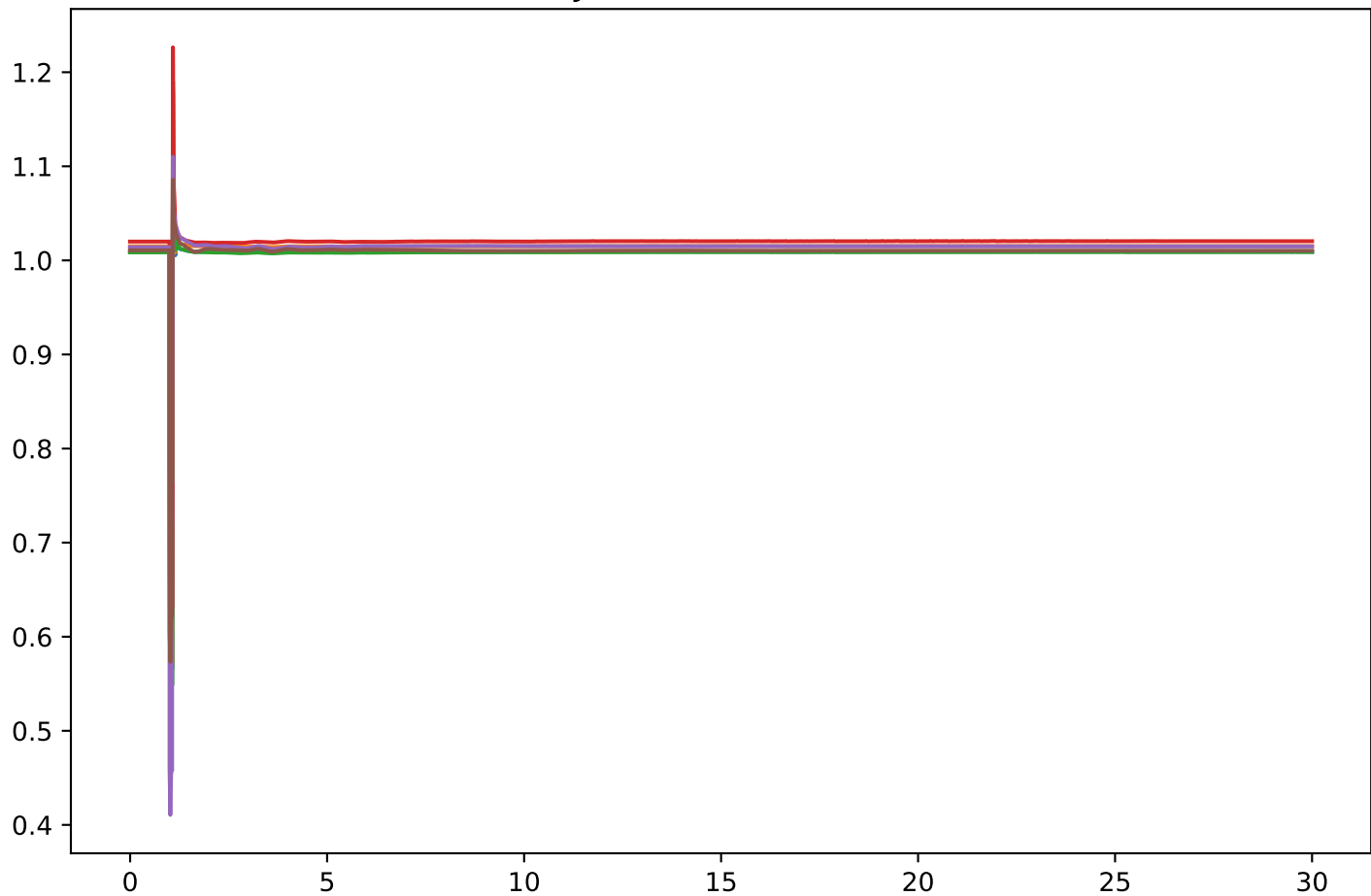


### Frecuencia (Hz)



PAN115

# Voltajes 230kV - Panama



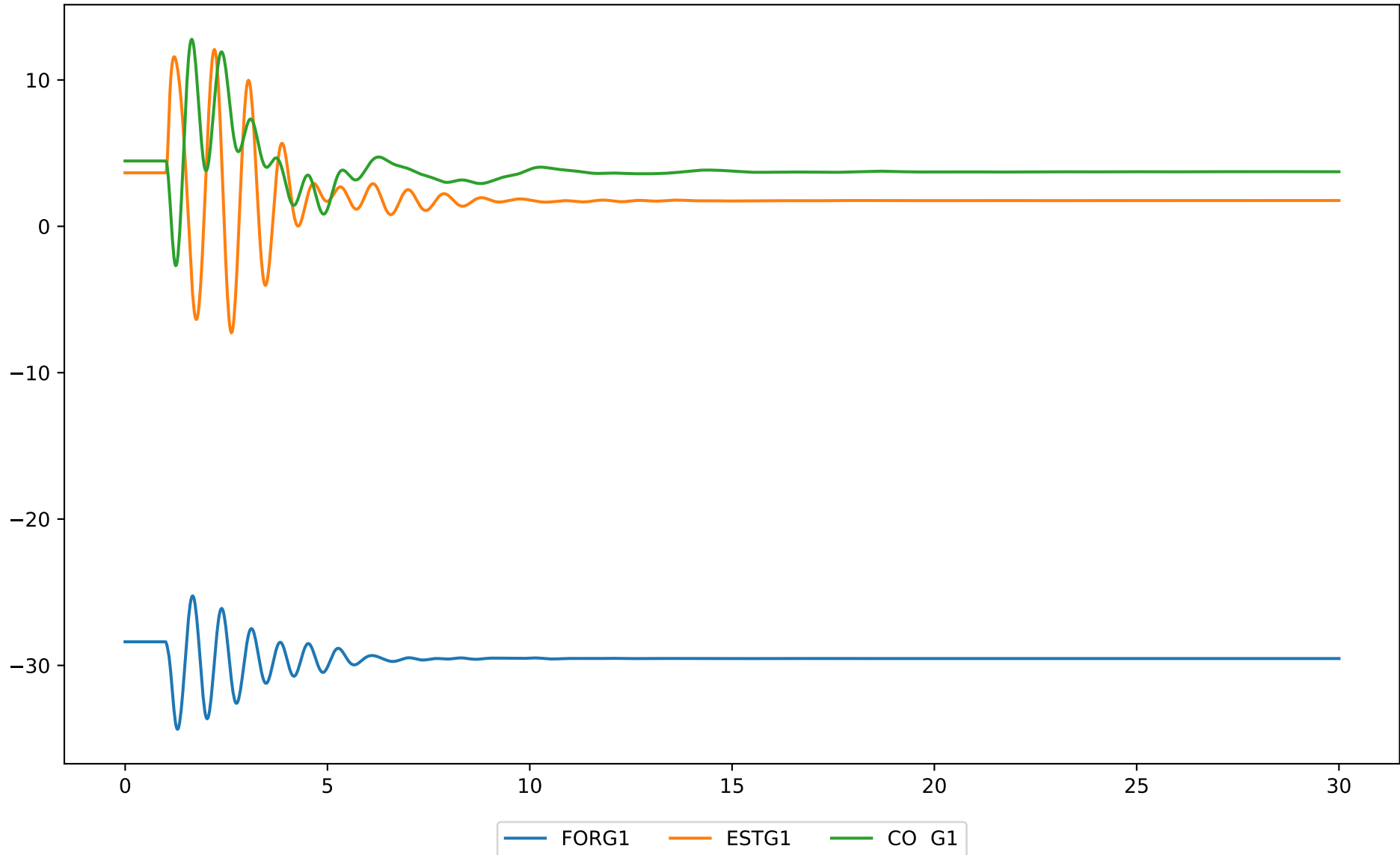
PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

## Voltajes 115kV - Panama

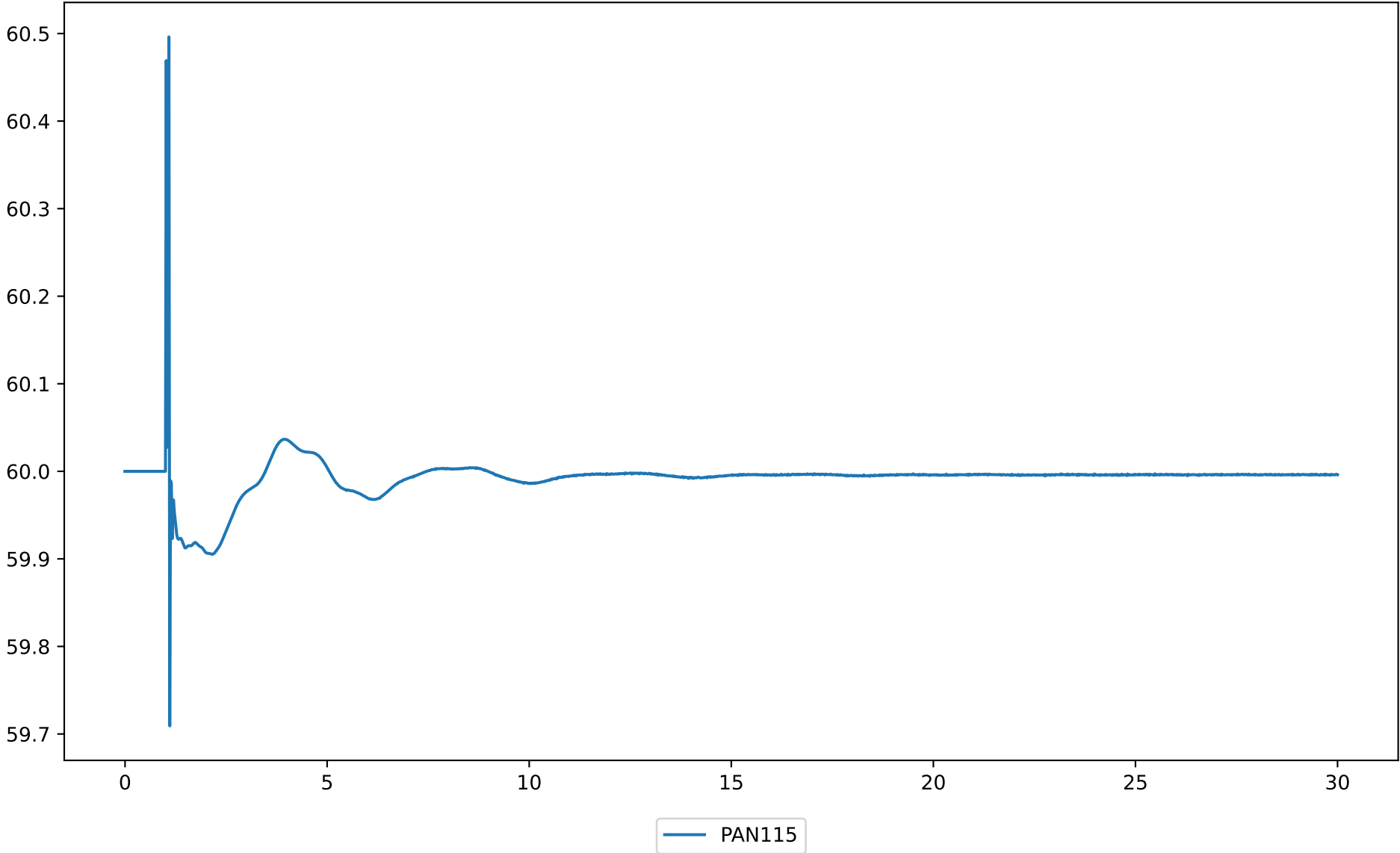


Caso: 1023-3-2028CA\_ModMax\_Lluv - Contingencia: 6179-6360-22-C5\_GUA-GLA

## Angulos de Rotacion de Maquinas - Panama

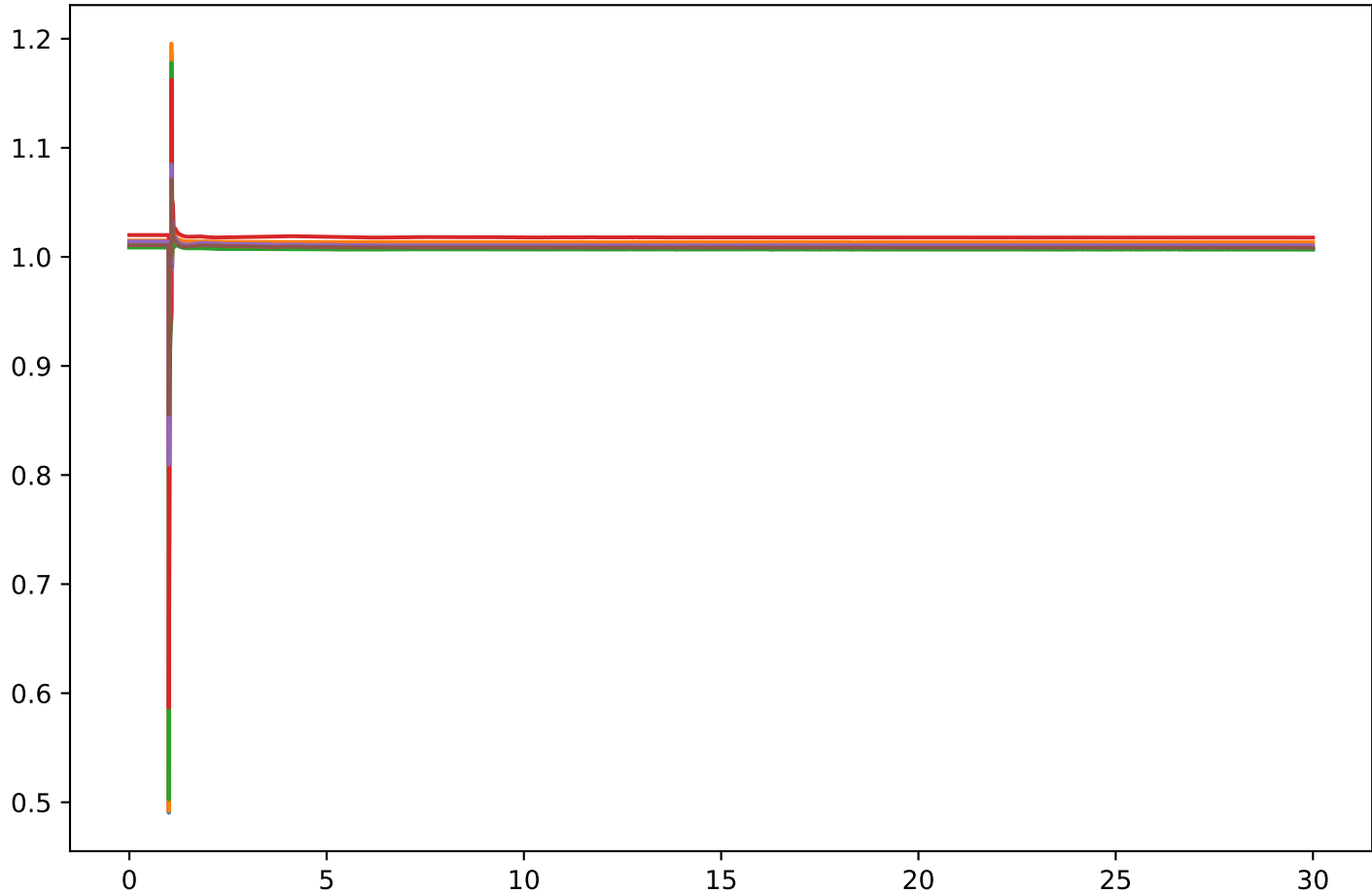


### Frecuencia (Hz)



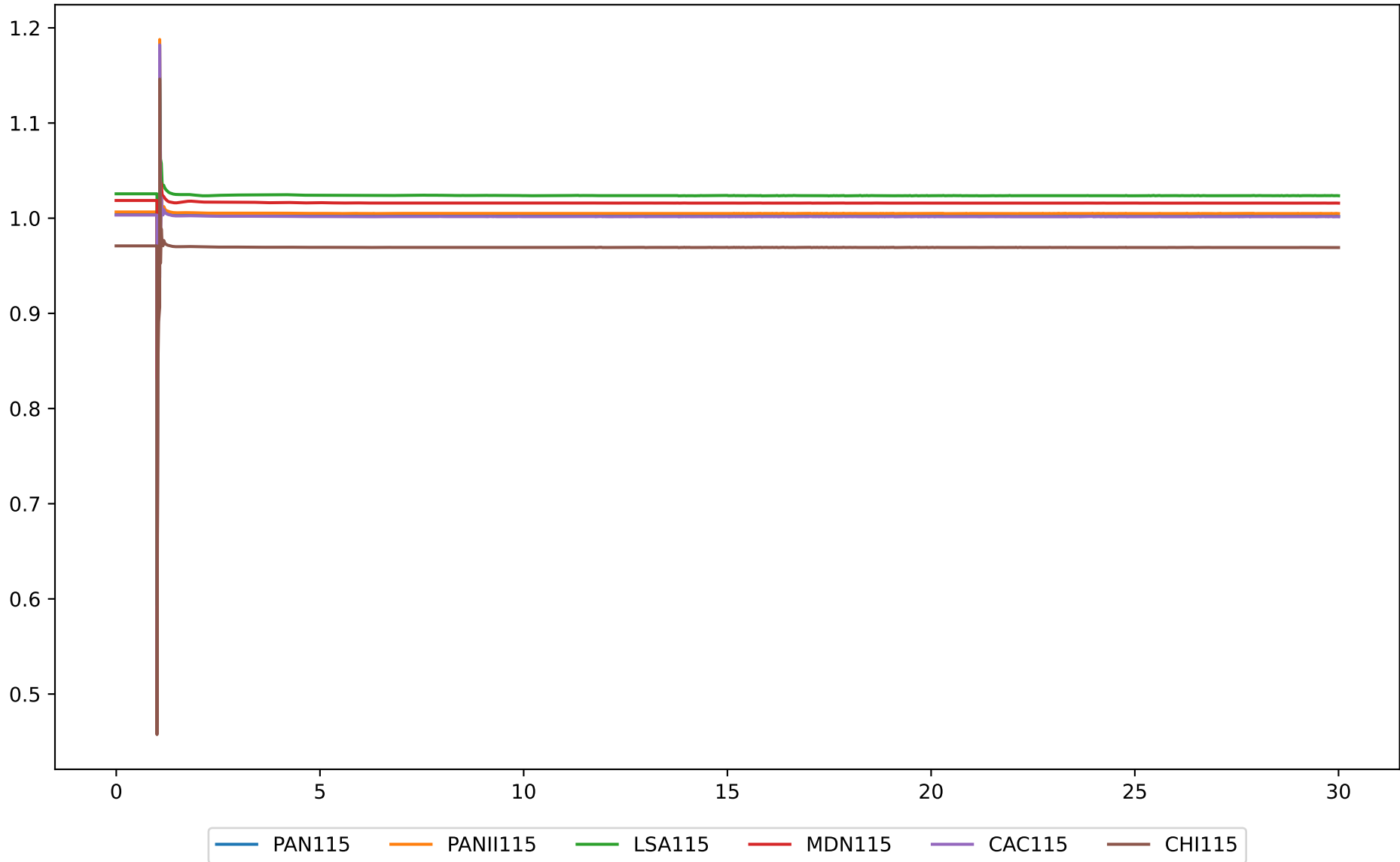


# Voltajes 230kV - Panama

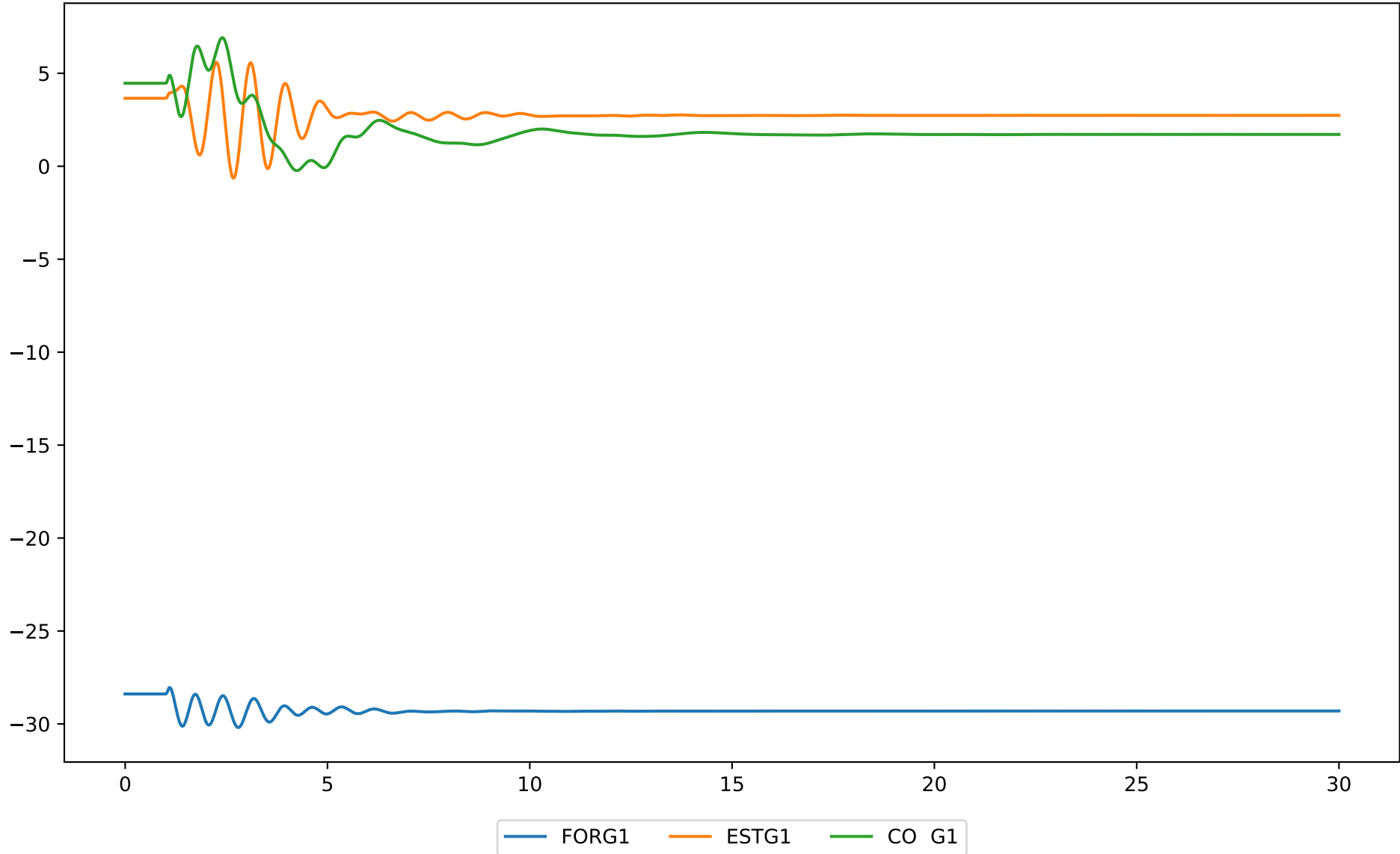


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

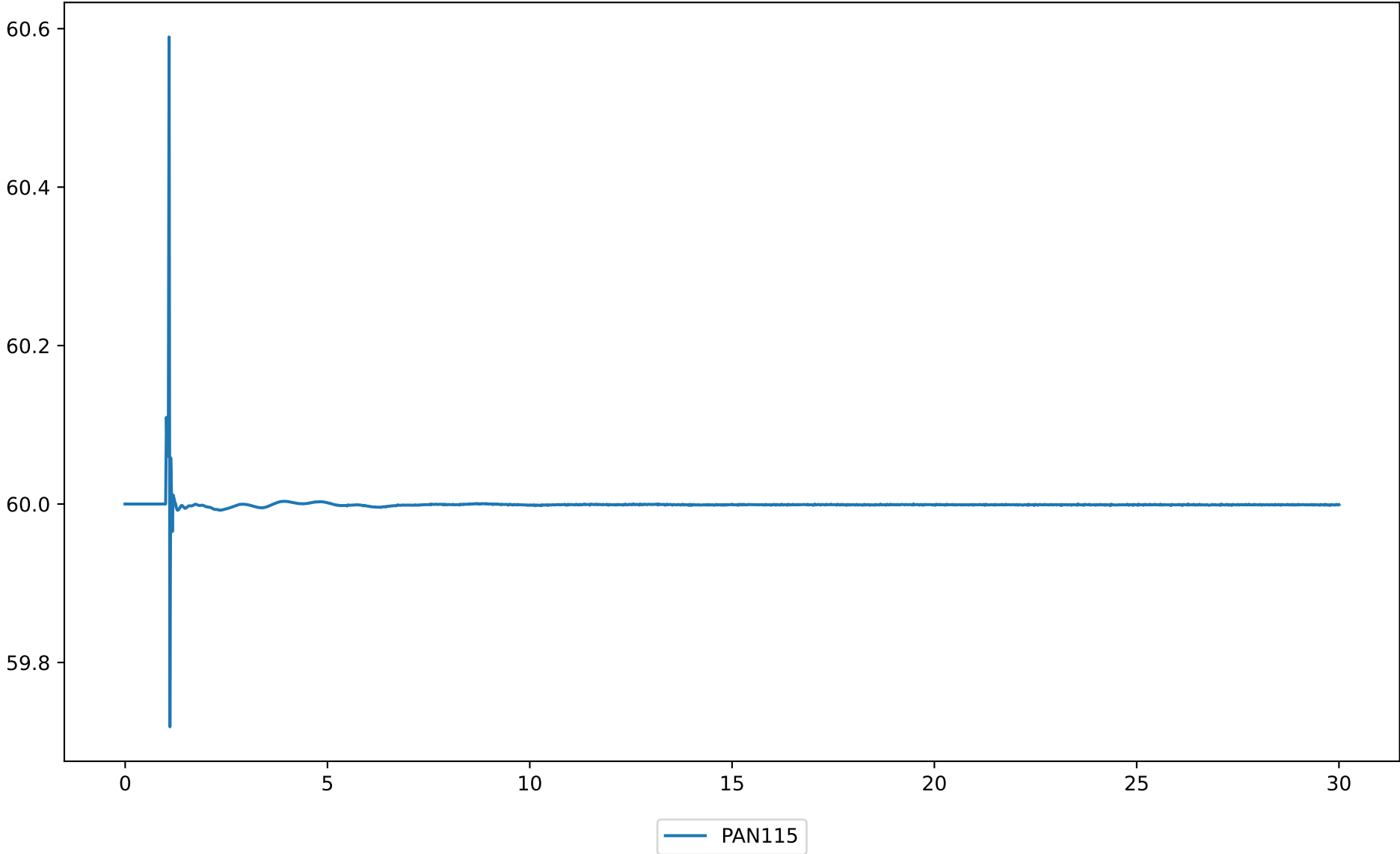
### Voltajes 115kV - Panama



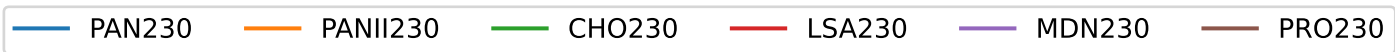
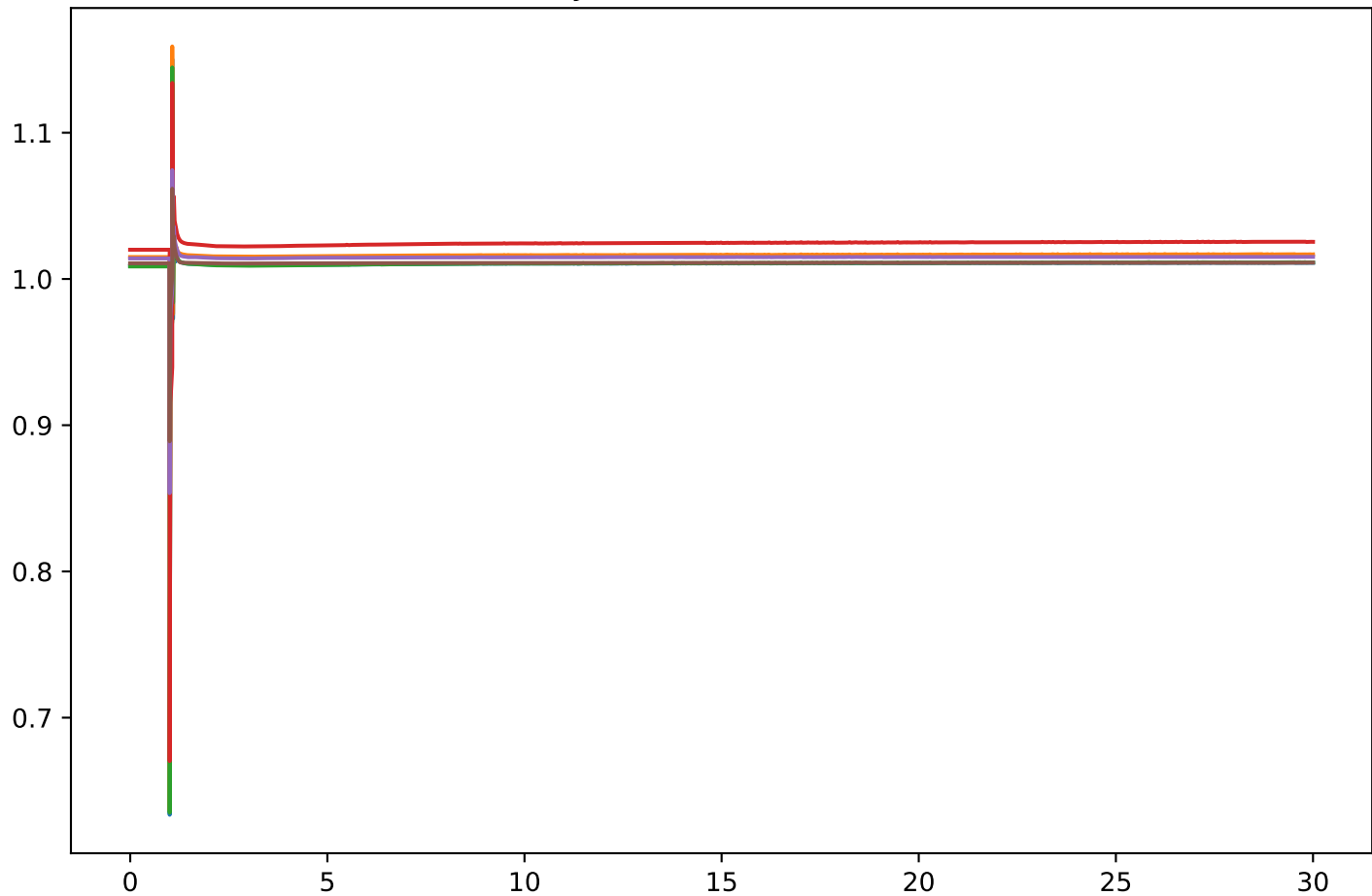
### Angulos de Rotacion de Maquinas - Panama



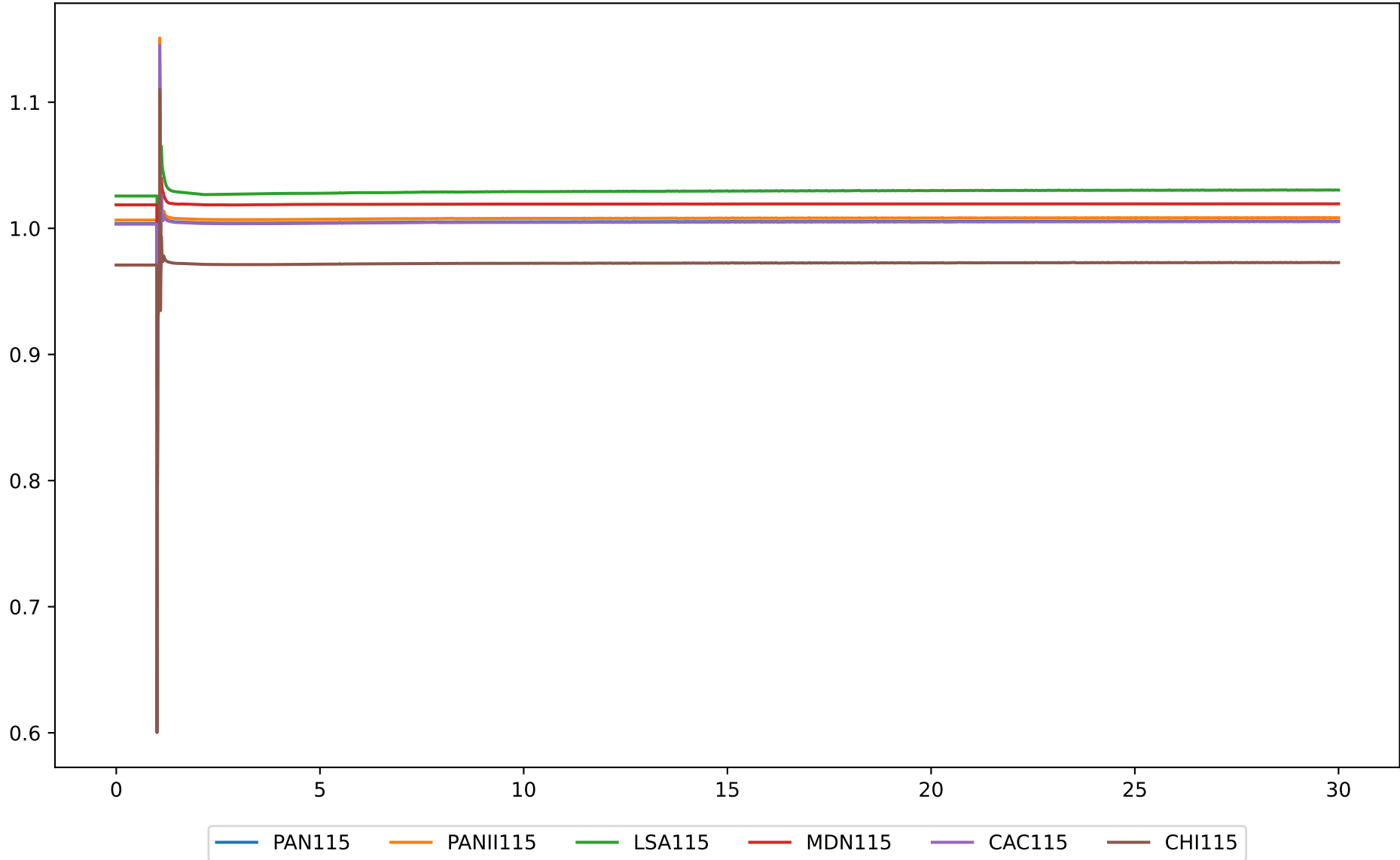
### Frecuencia (Hz)



# Voltajes 230kV - Panama

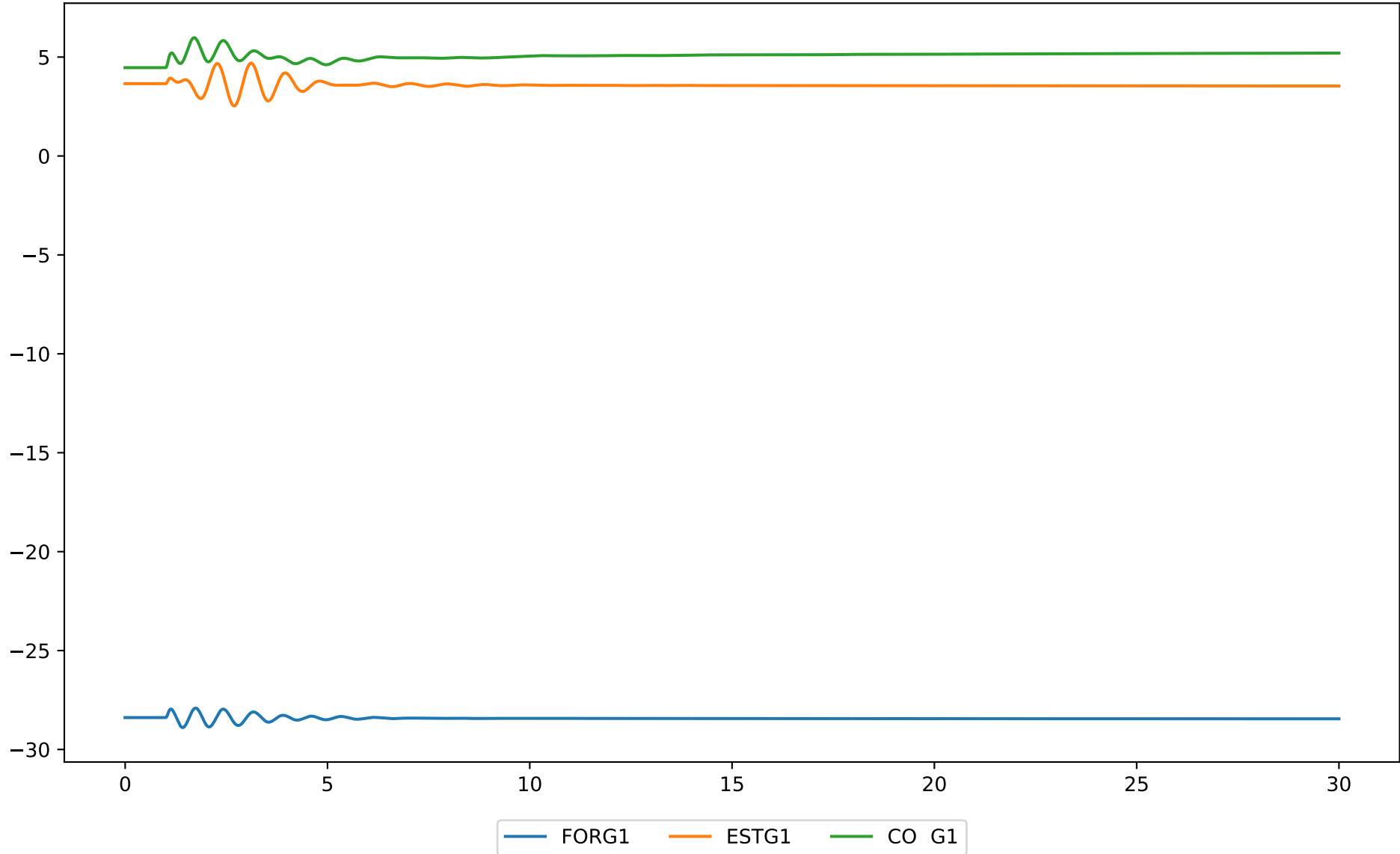


### Voltajes 115kV - Panama

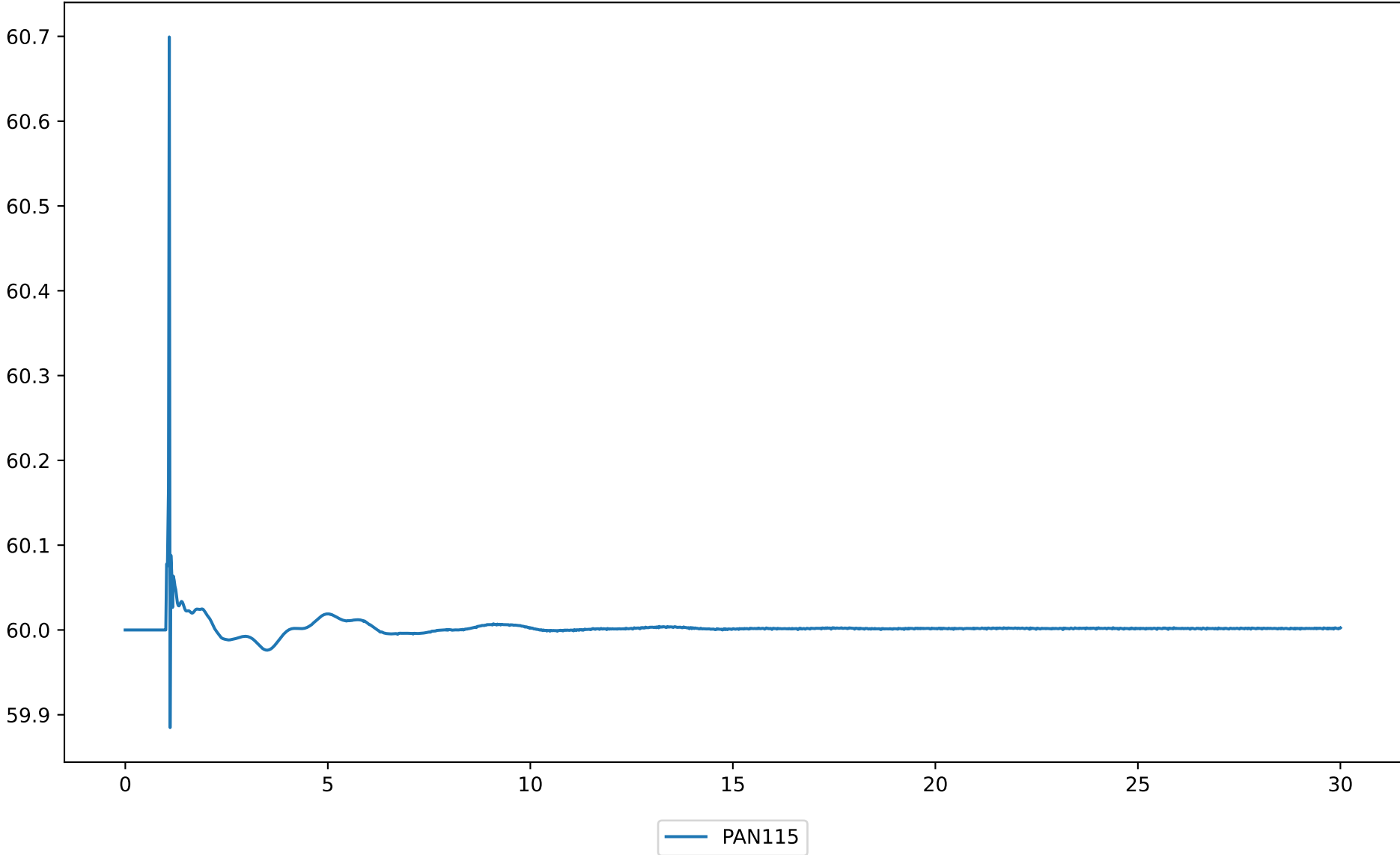


Caso: 1023-3-2028CA\_ModMax\_Lluv - Contingencia: 6812-6811-T4-C7\_STC-LSA

## Angulos de Rotacion de Maquinas - Panama

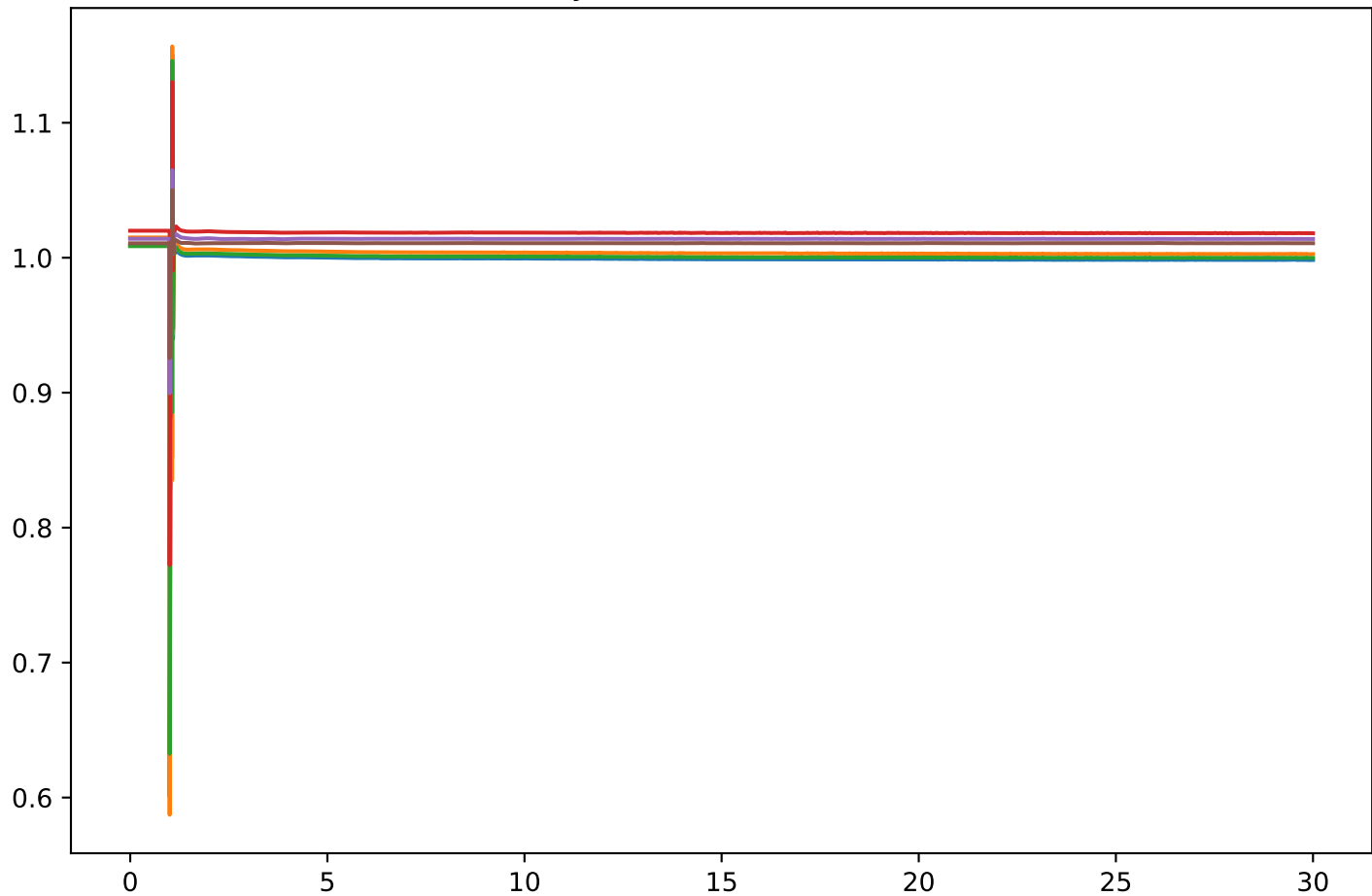


### Frecuencia (Hz)



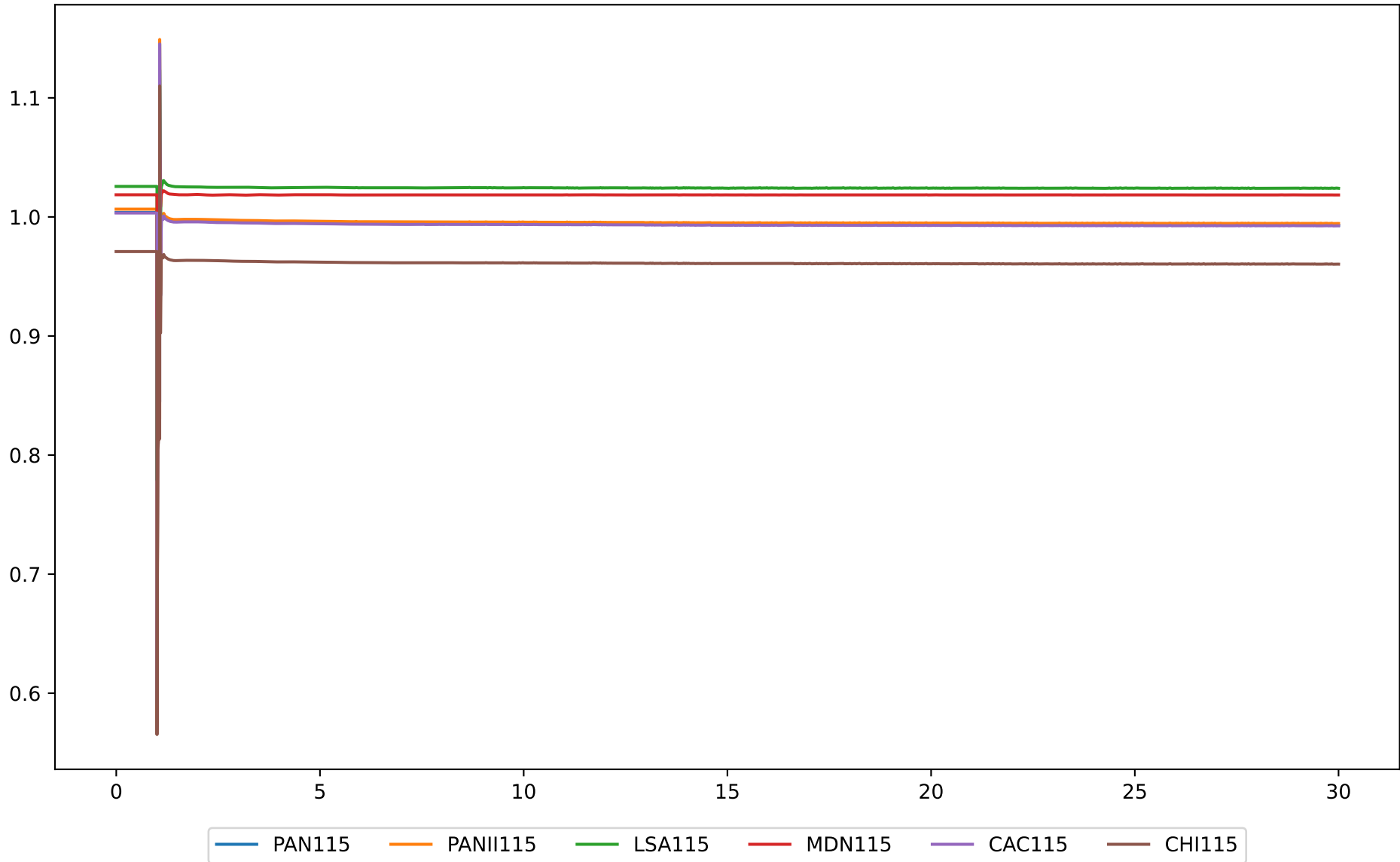


# Voltajes 230kV - Panama

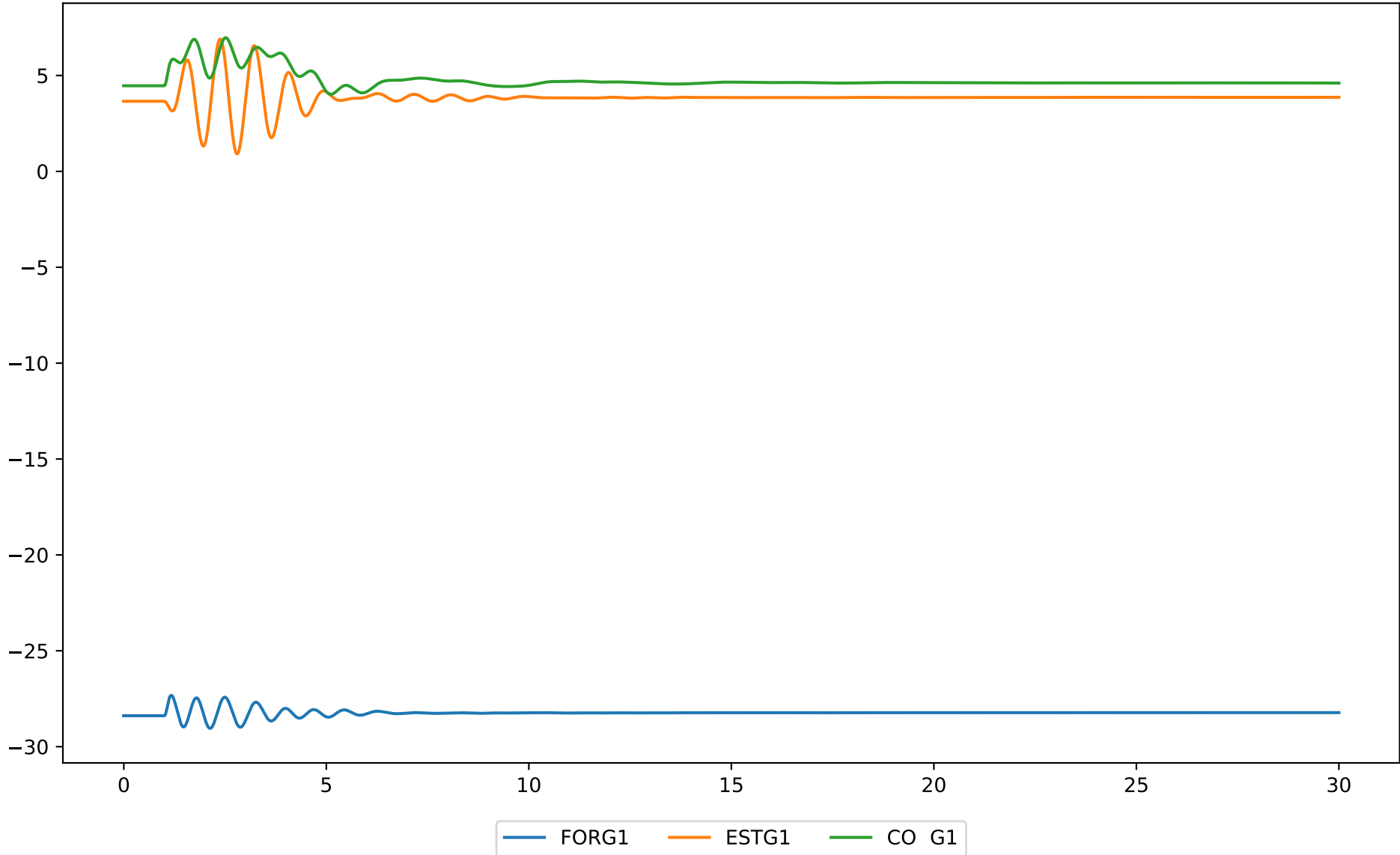


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

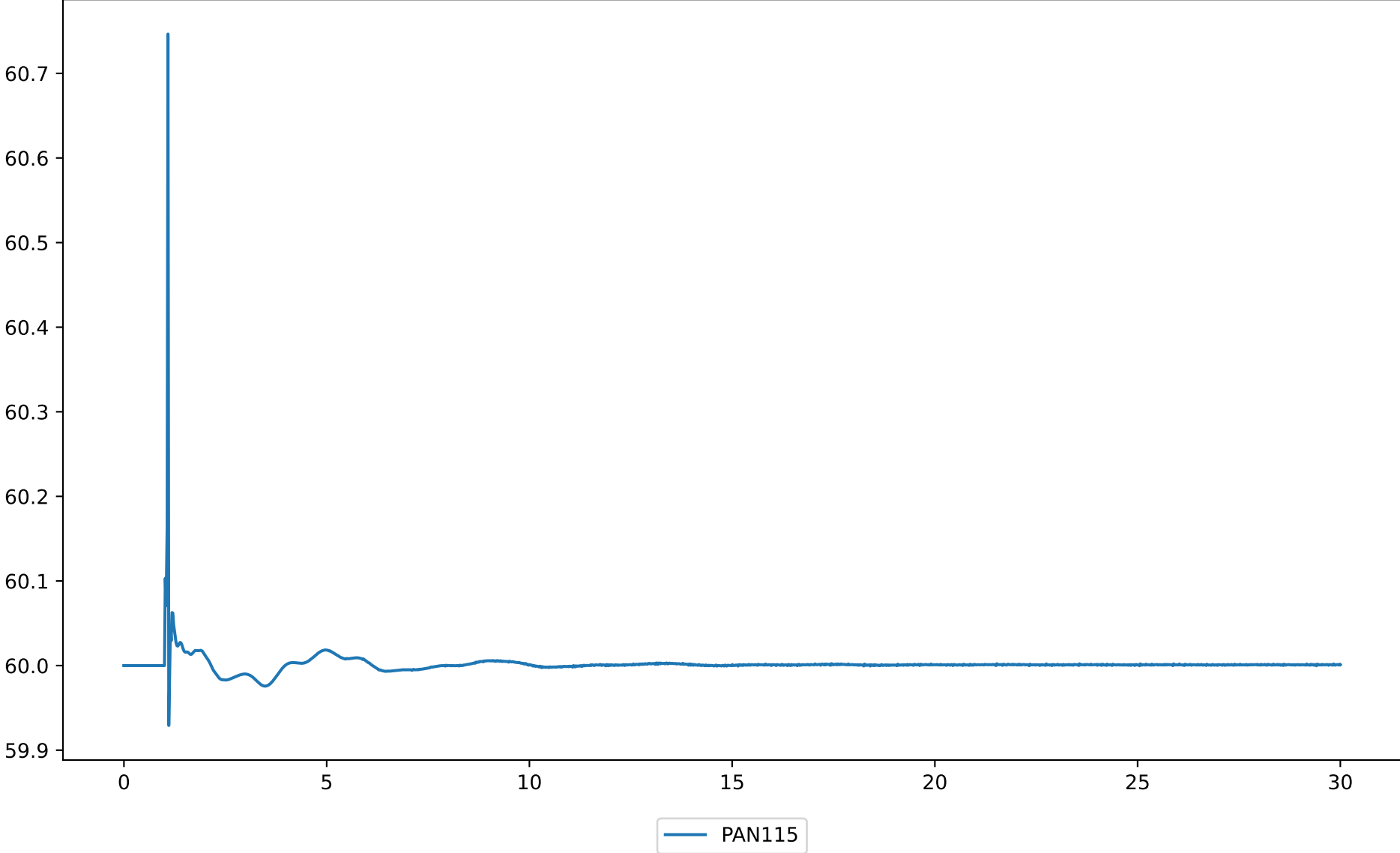
### Voltajes 115kV - Panama



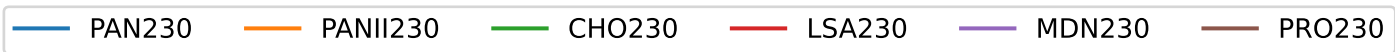
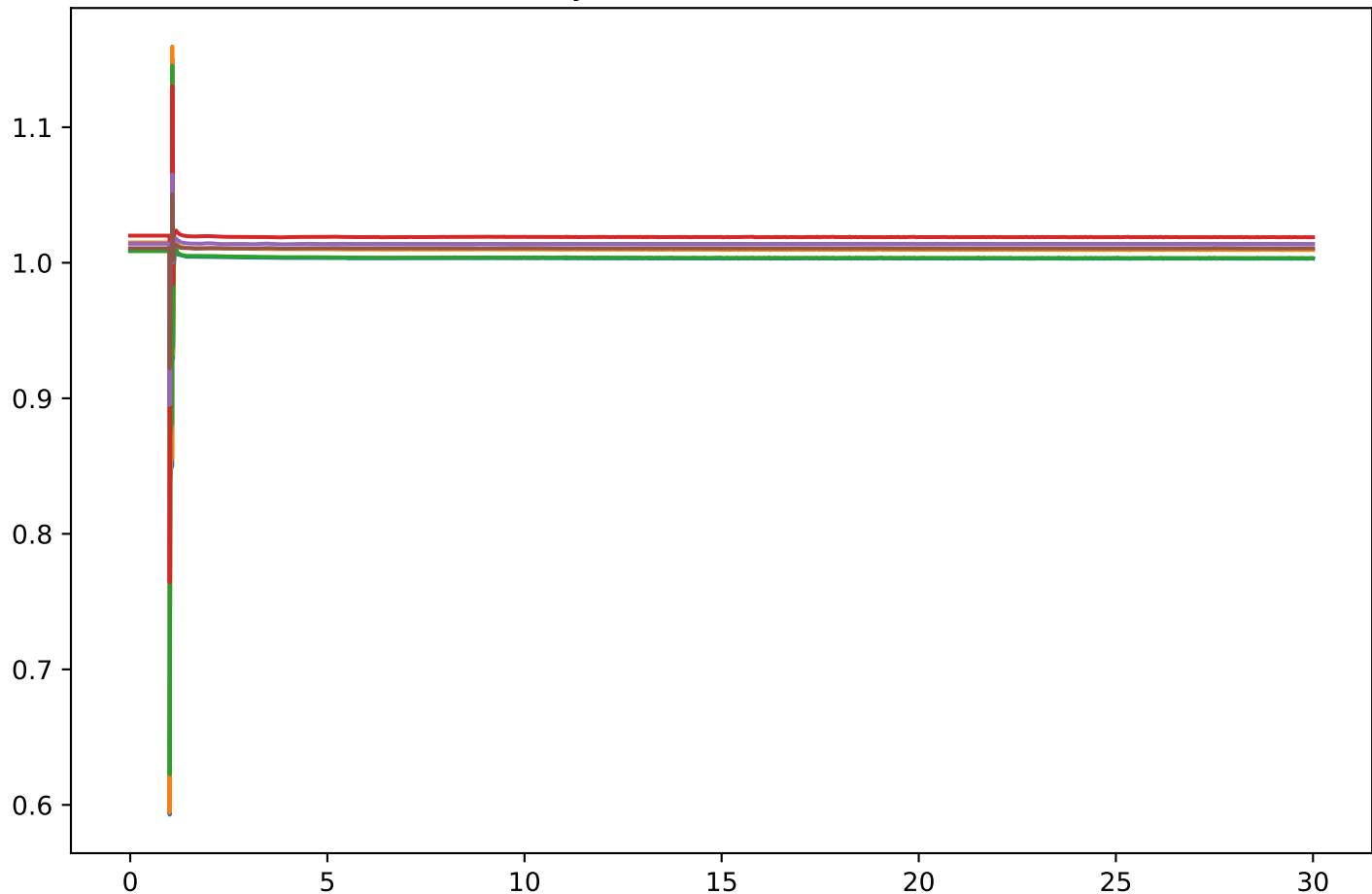
### Angulos de Rotacion de Maquinas - Panama



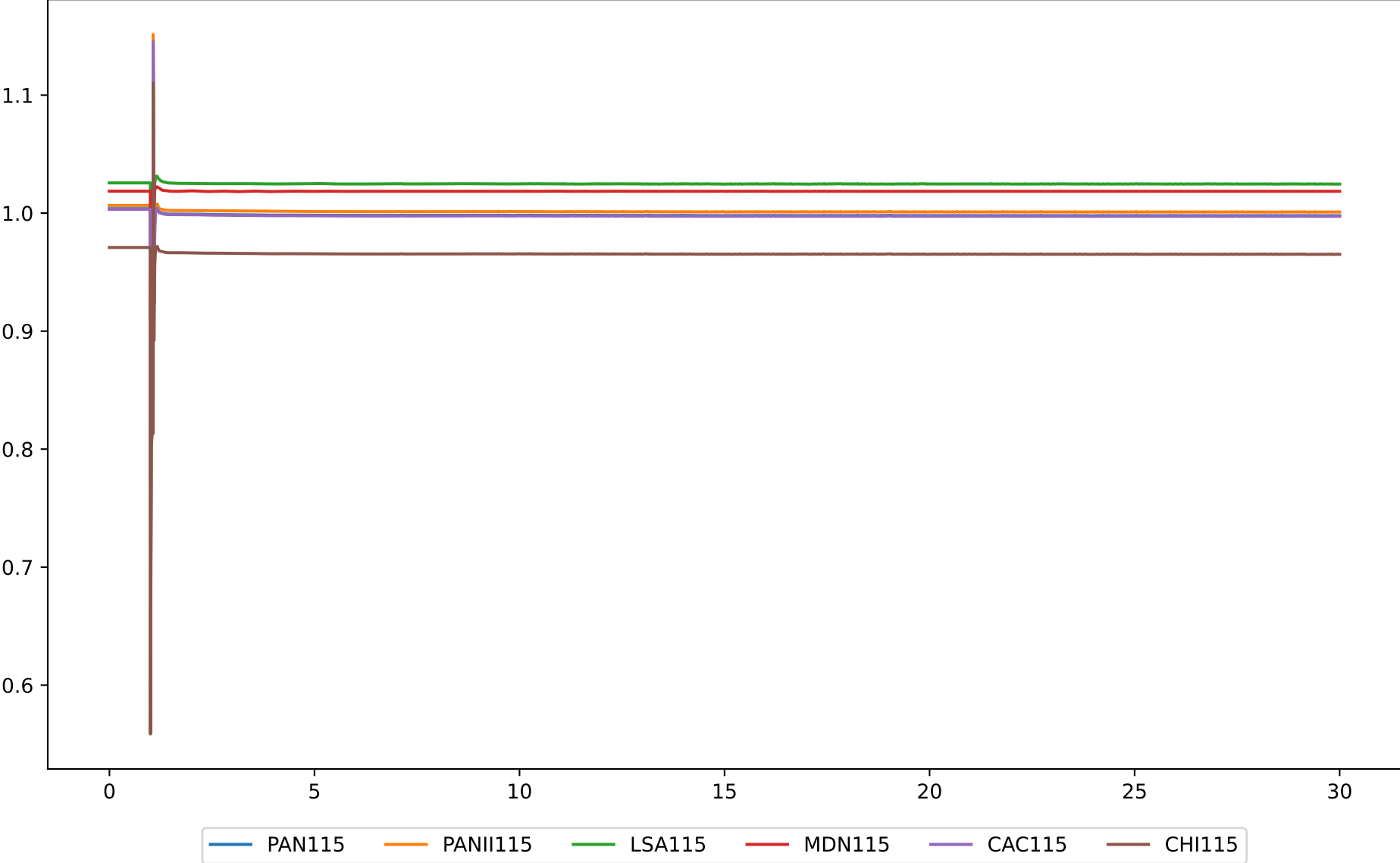
### Frecuencia (Hz)



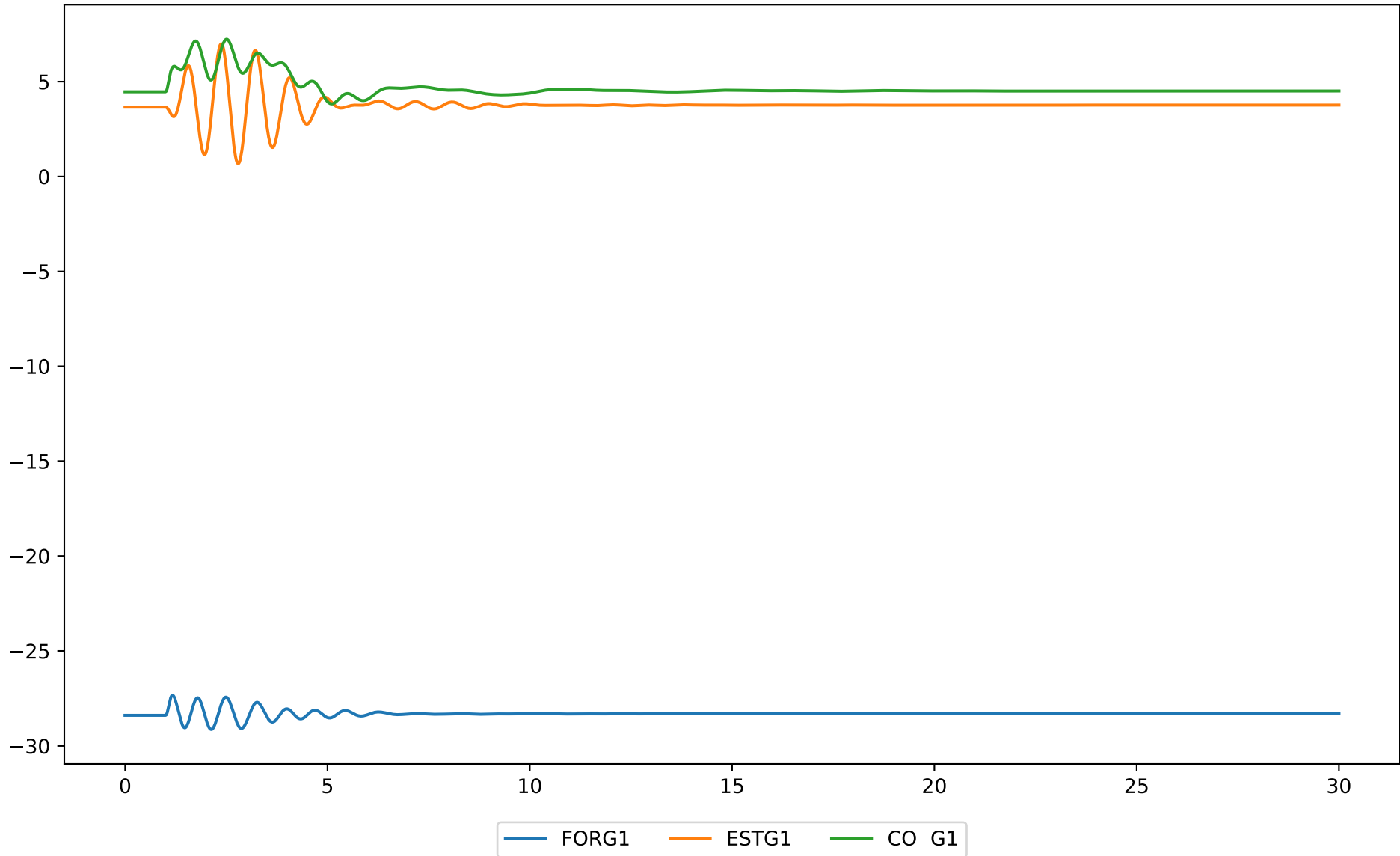
# Voltajes 230kV - Panama



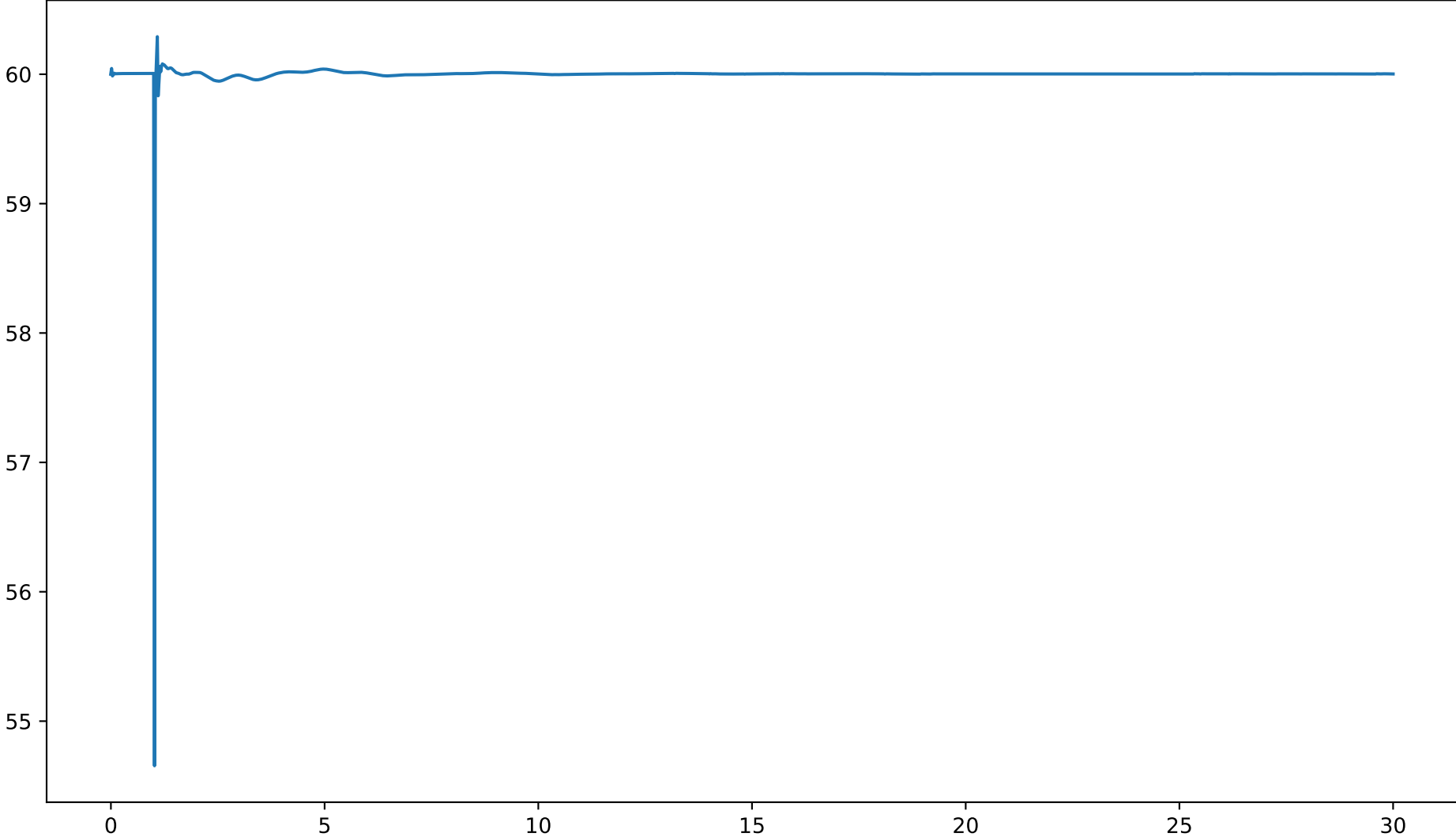
### Voltajes 115kV - Panama



### Angulos de Rotacion de Maquinas - Panama



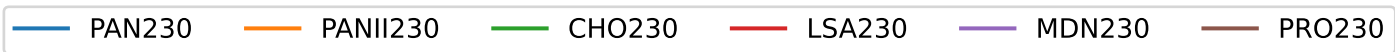
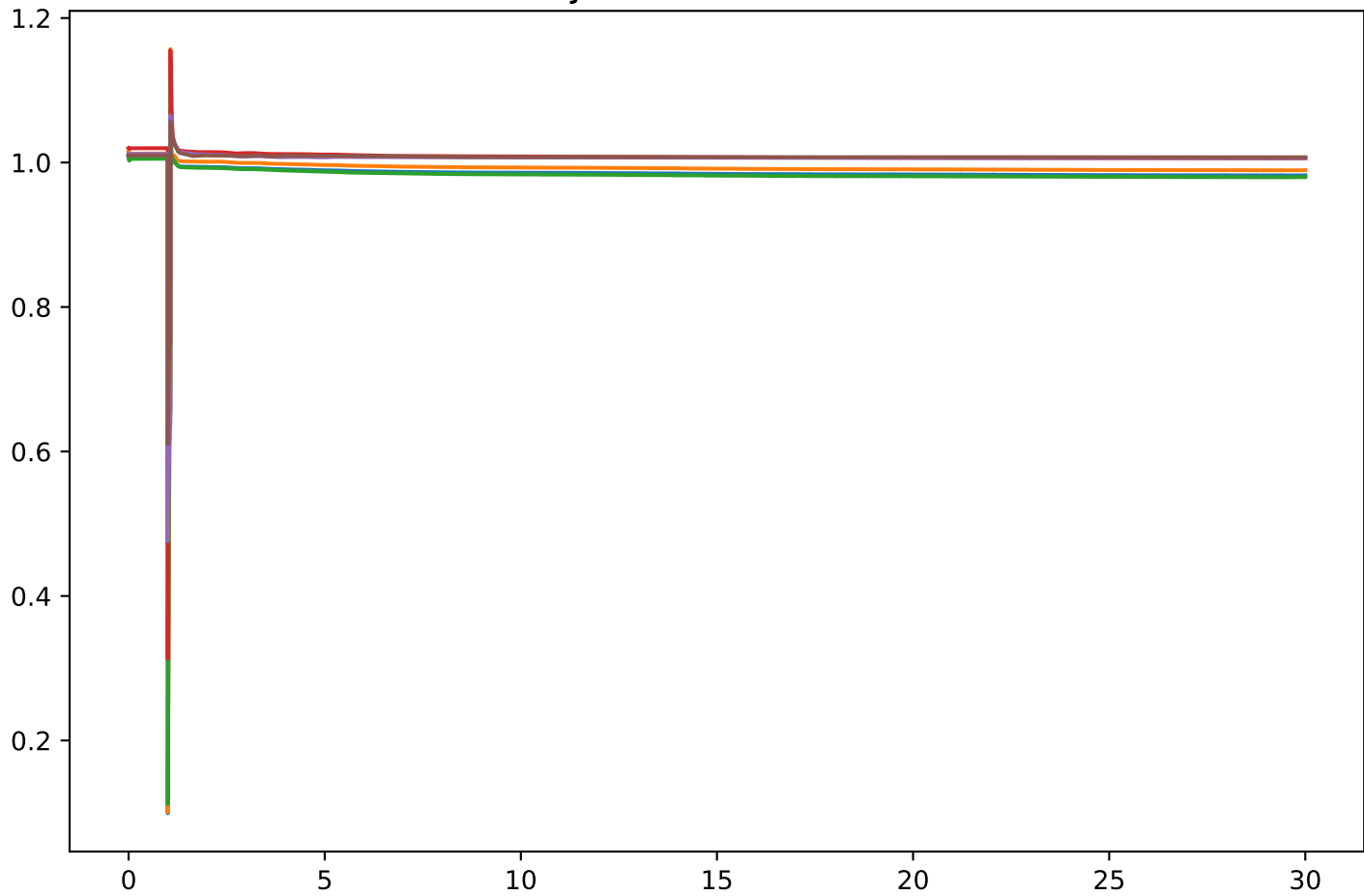
### Frecuencia (Hz)



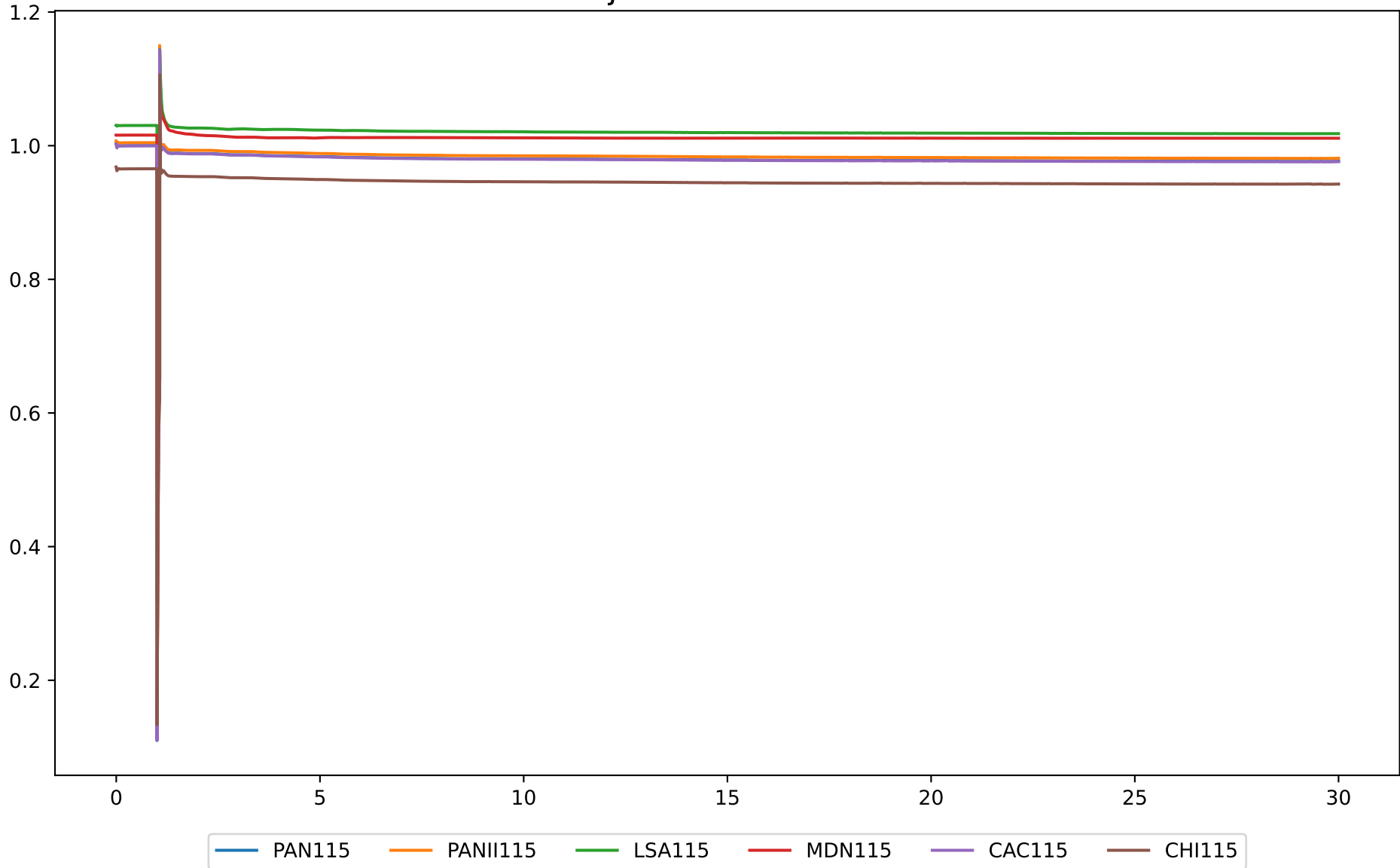
PAN115



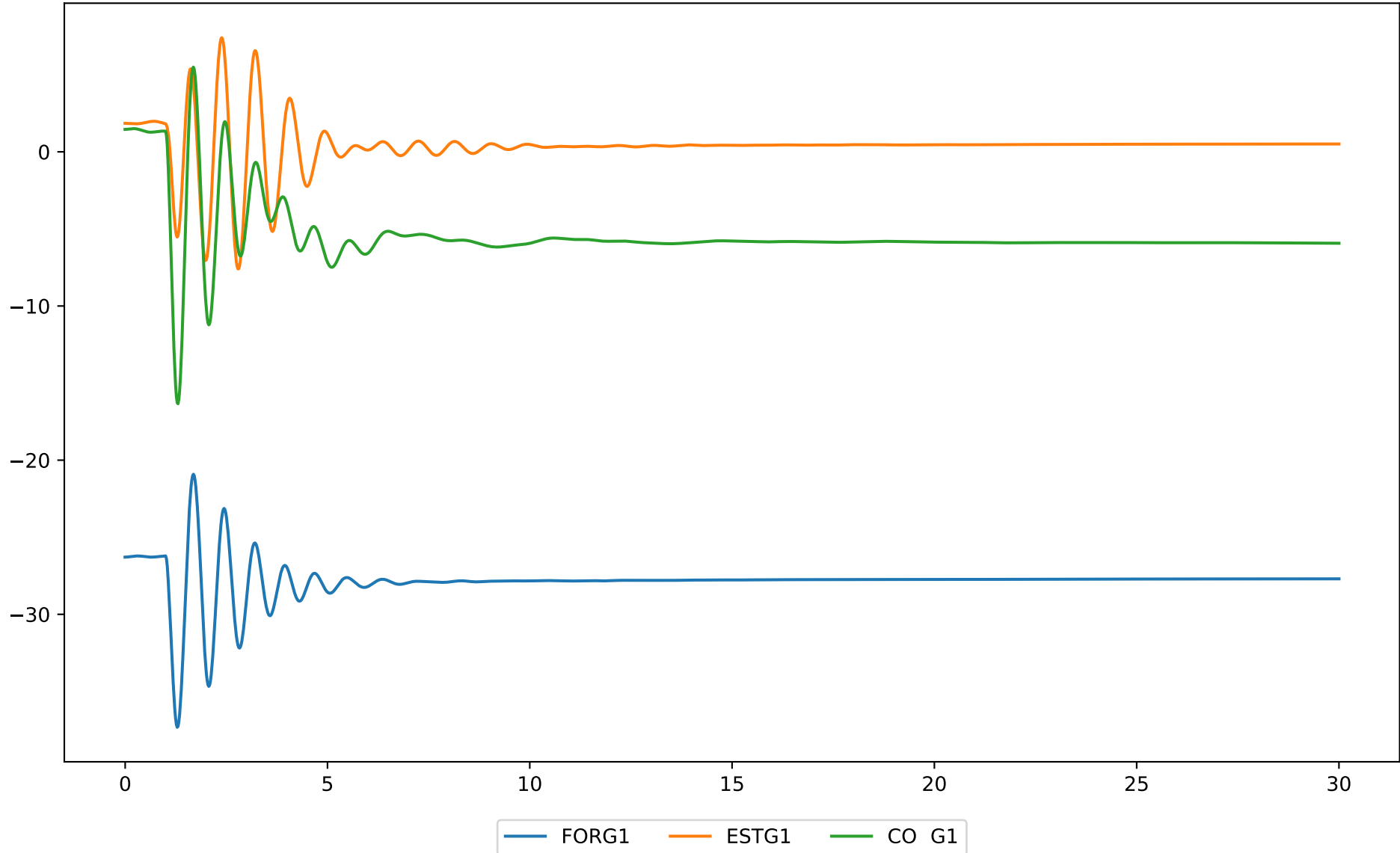
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

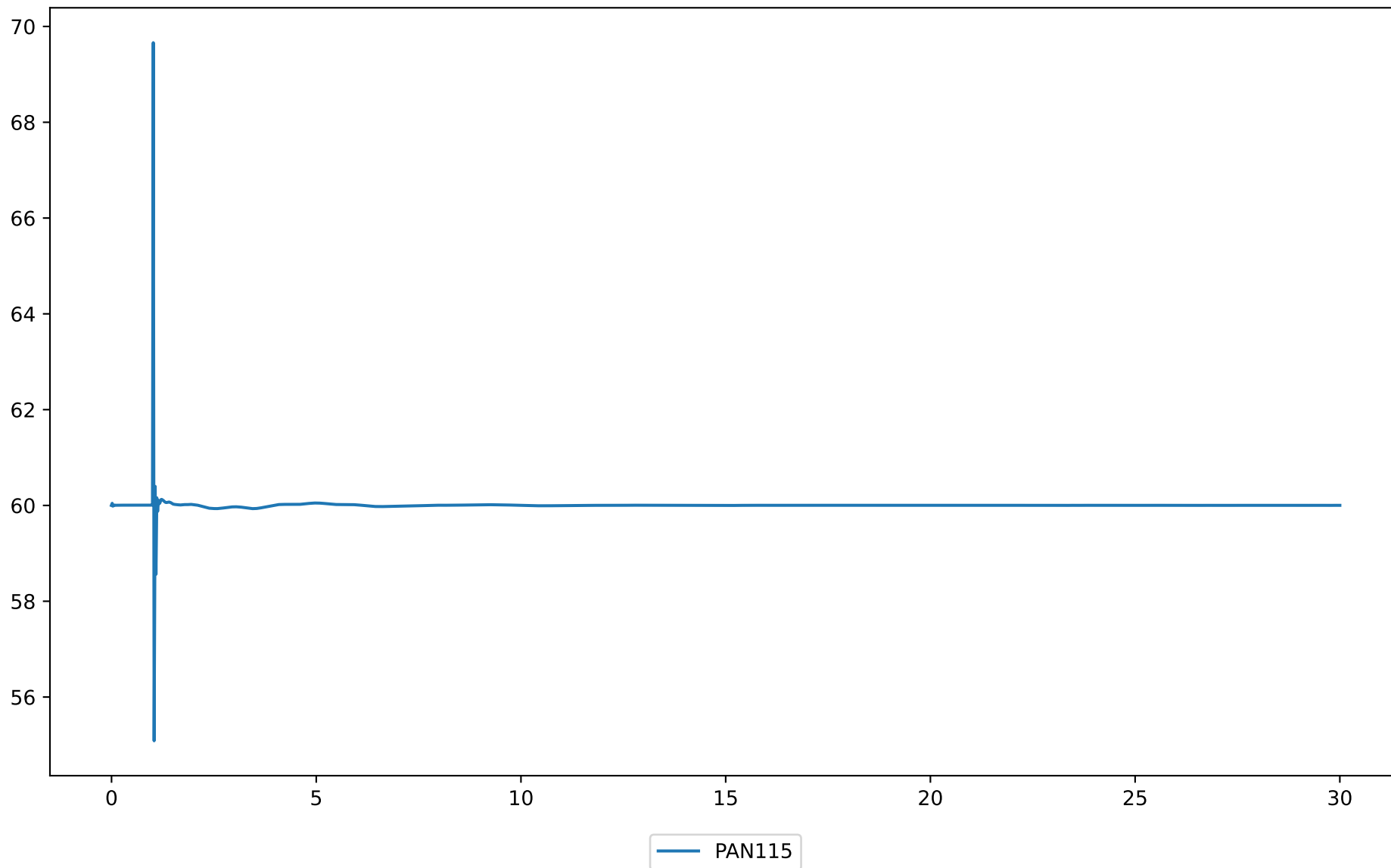


### Angulos de Rotacion de Maquinas - Panama

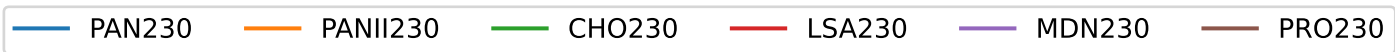
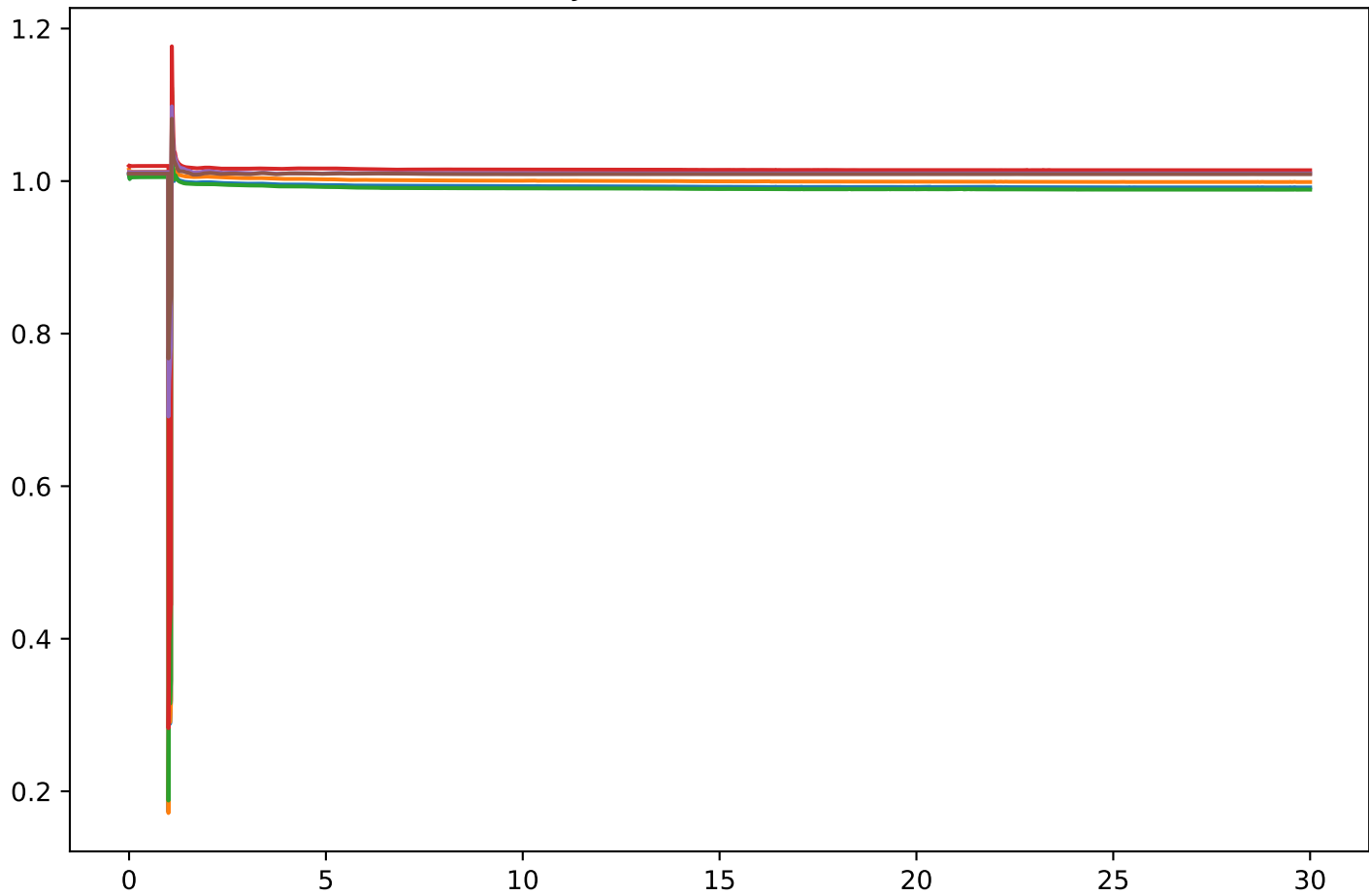


Caso: 1023-3-2029CA\_ModMax\_Lluv1 - Contingencia: 6460-6713-2C-C2\_ECO-BUR

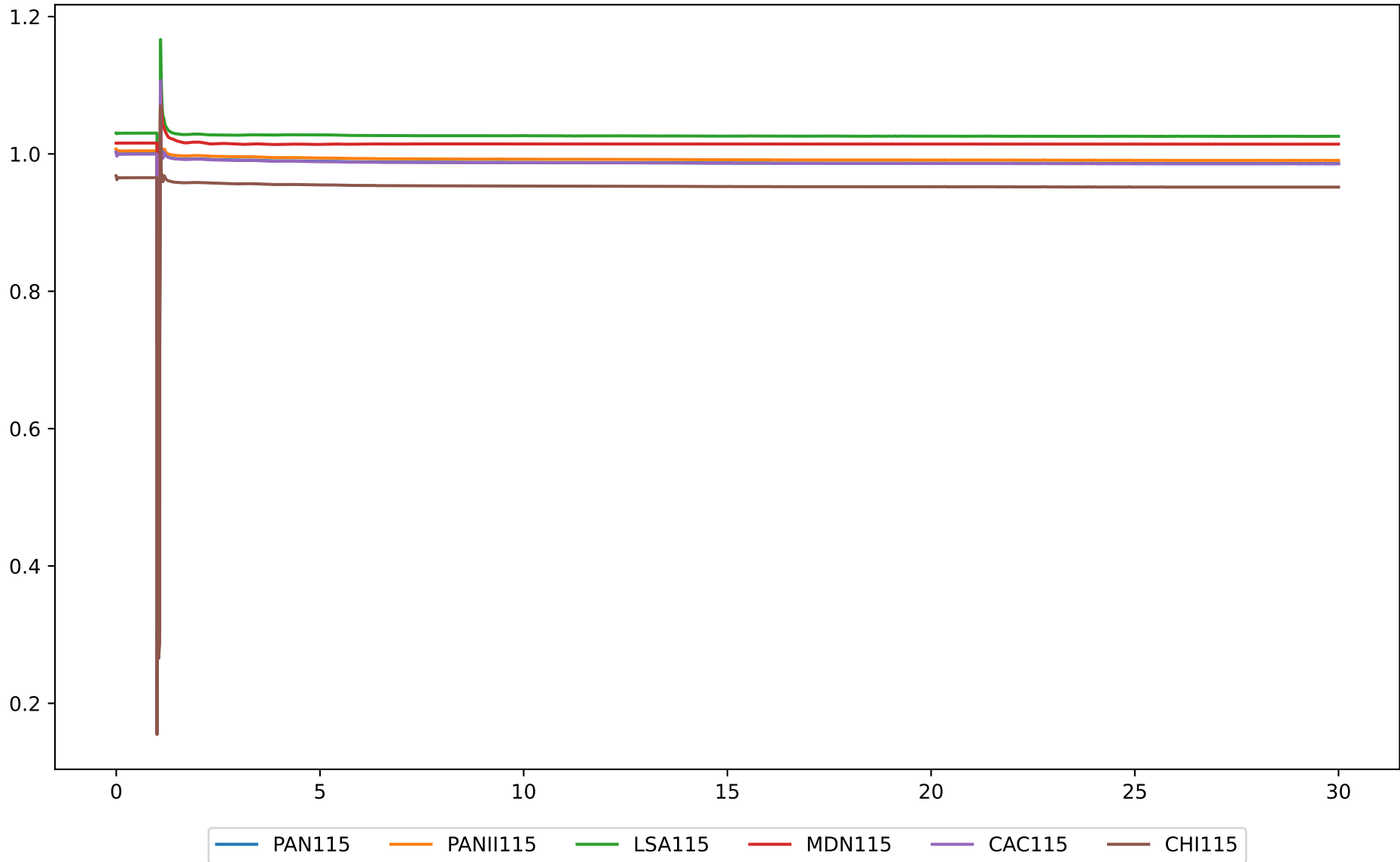
## Frecuencia (Hz)



# Voltajes 230kV - Panama

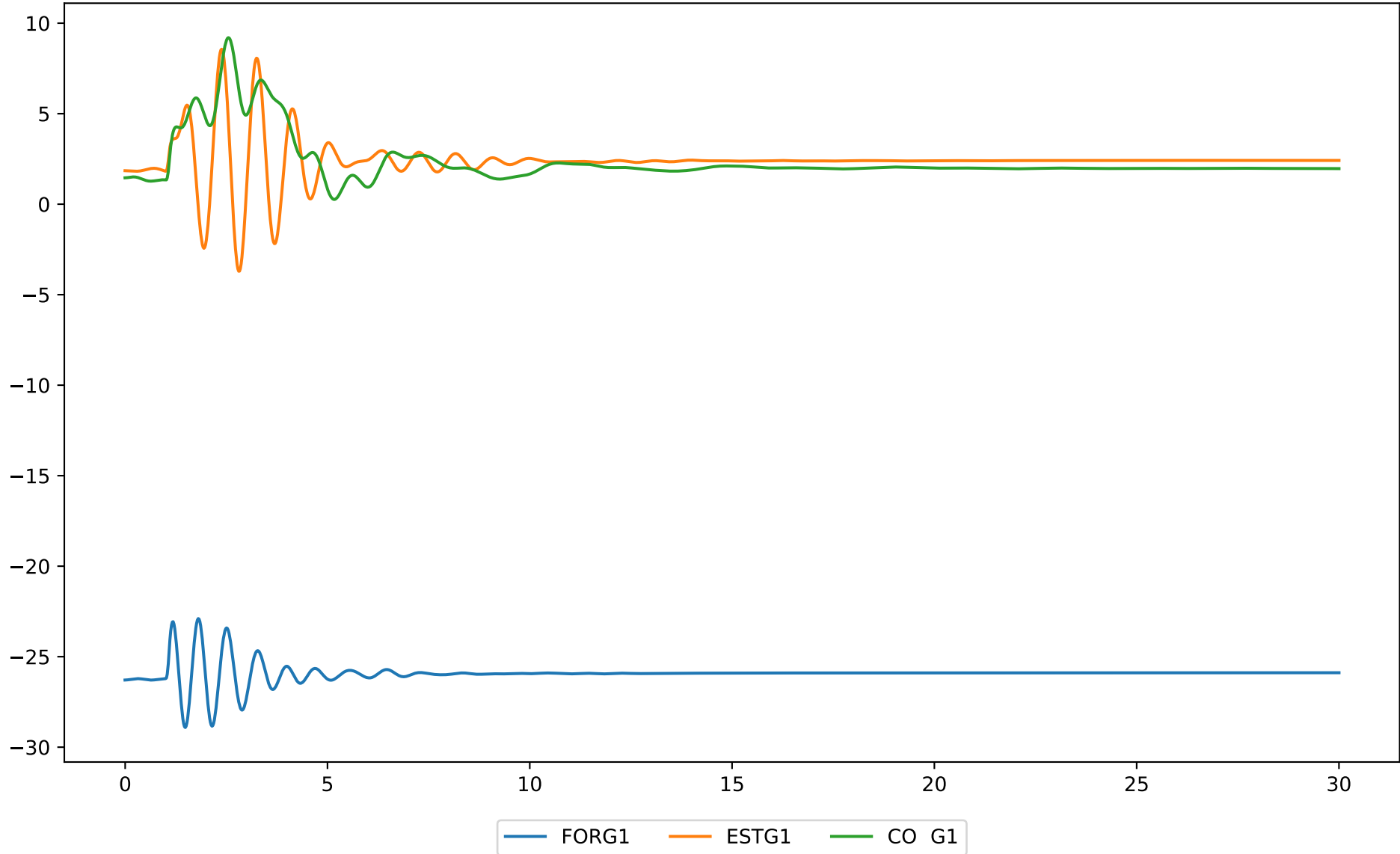


### Voltajes 115kV - Panama

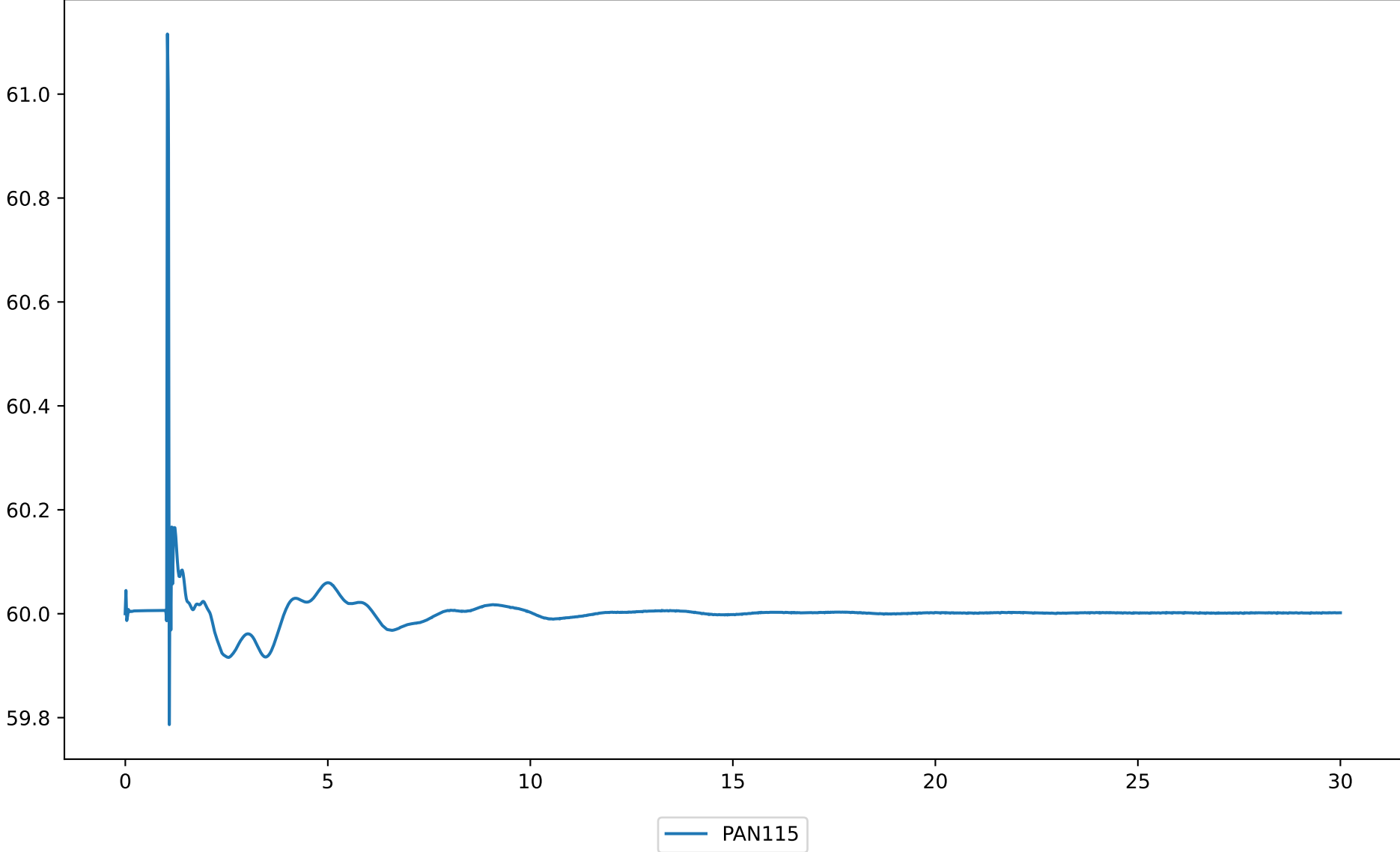


Caso: 1023-3-2029CA\_ModMax\_Lluv1 - Contingencia: 6460-6713-2C-C2\_ECO-BUR

## Angulos de Rotacion de Maquinas - Panama

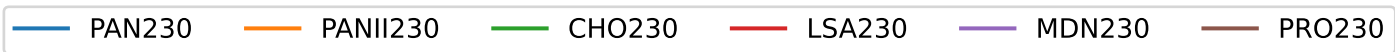
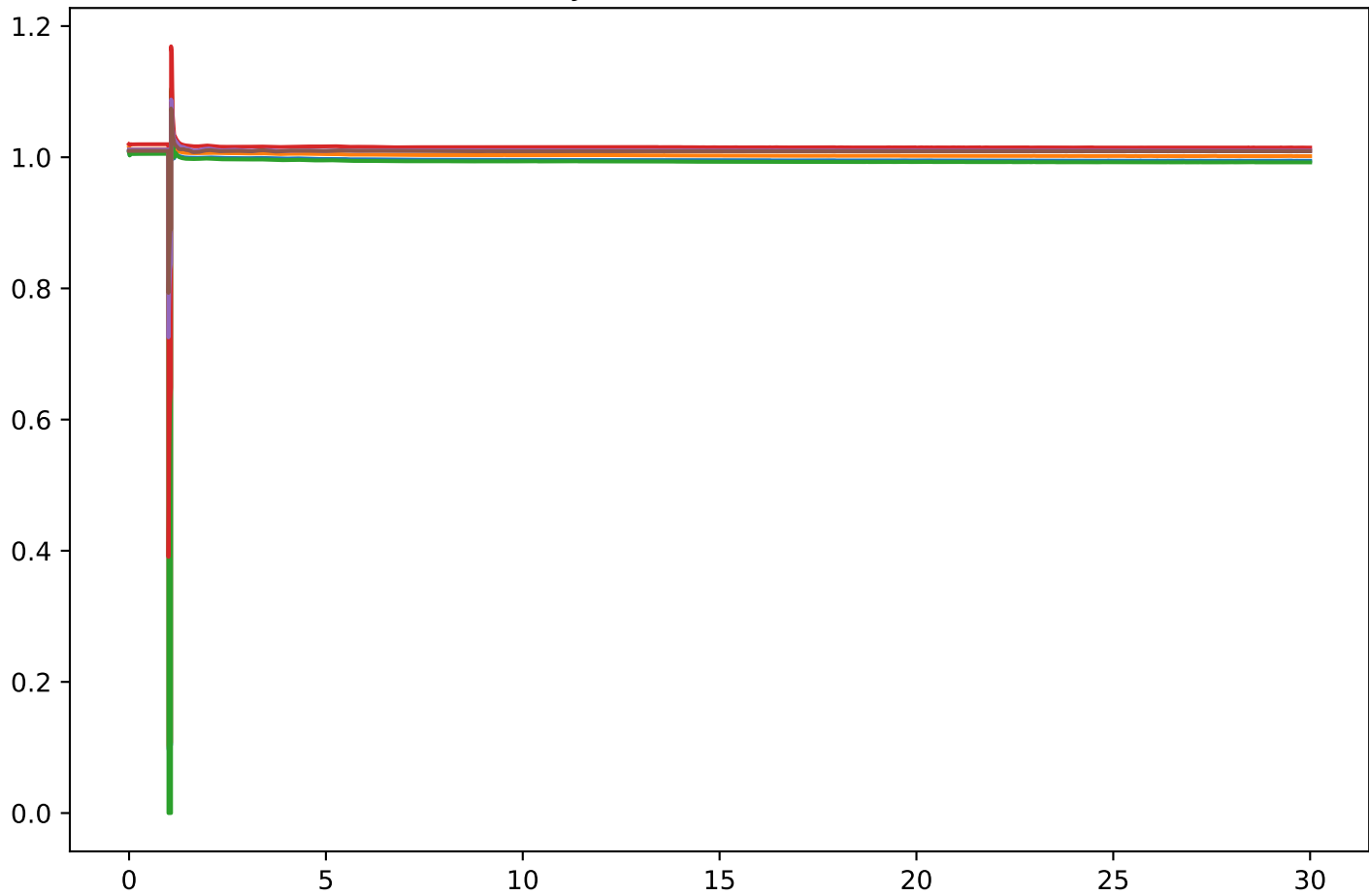


### Frecuencia (Hz)

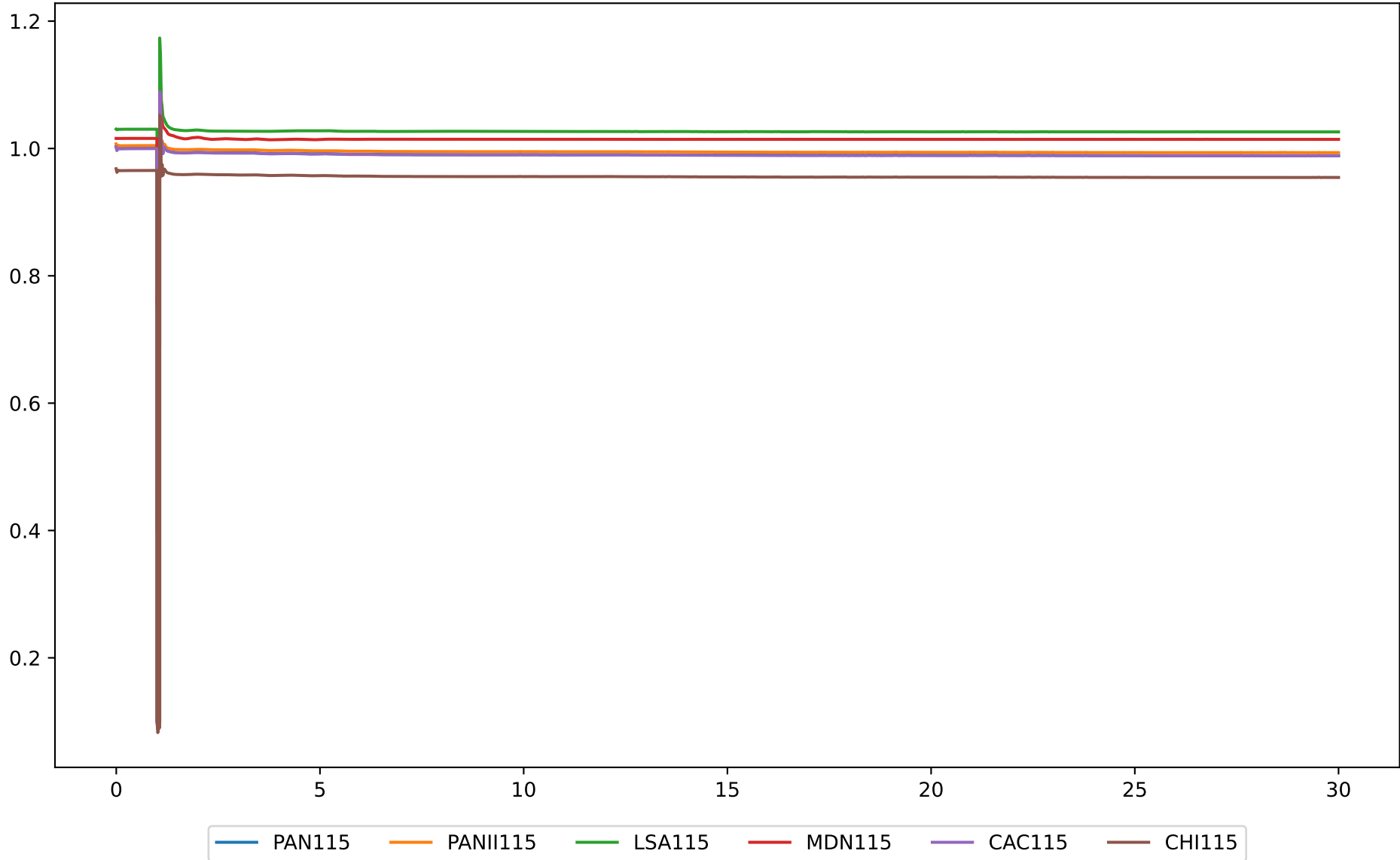




# Voltajes 230kV - Panama

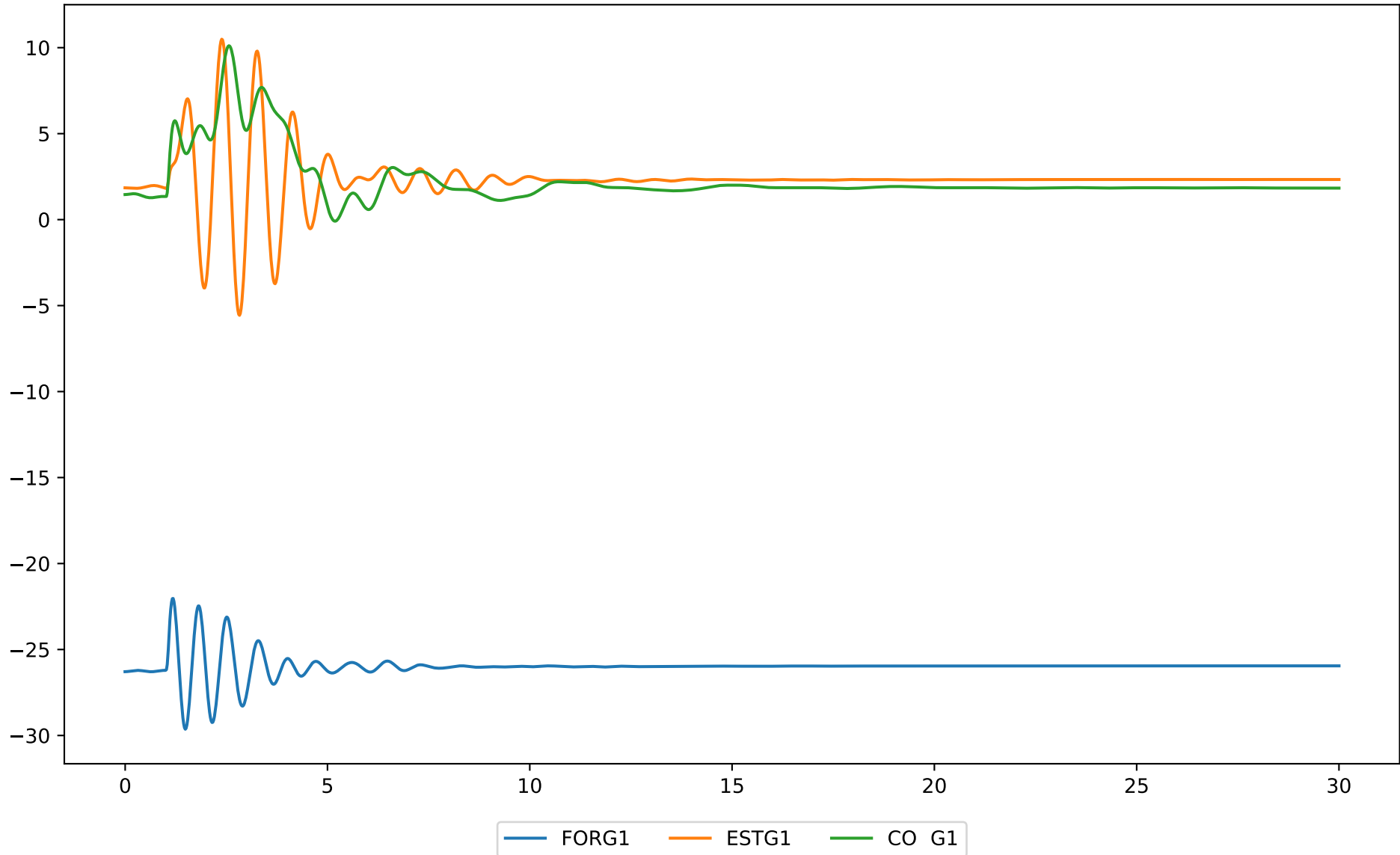


### Voltajes 115kV - Panama

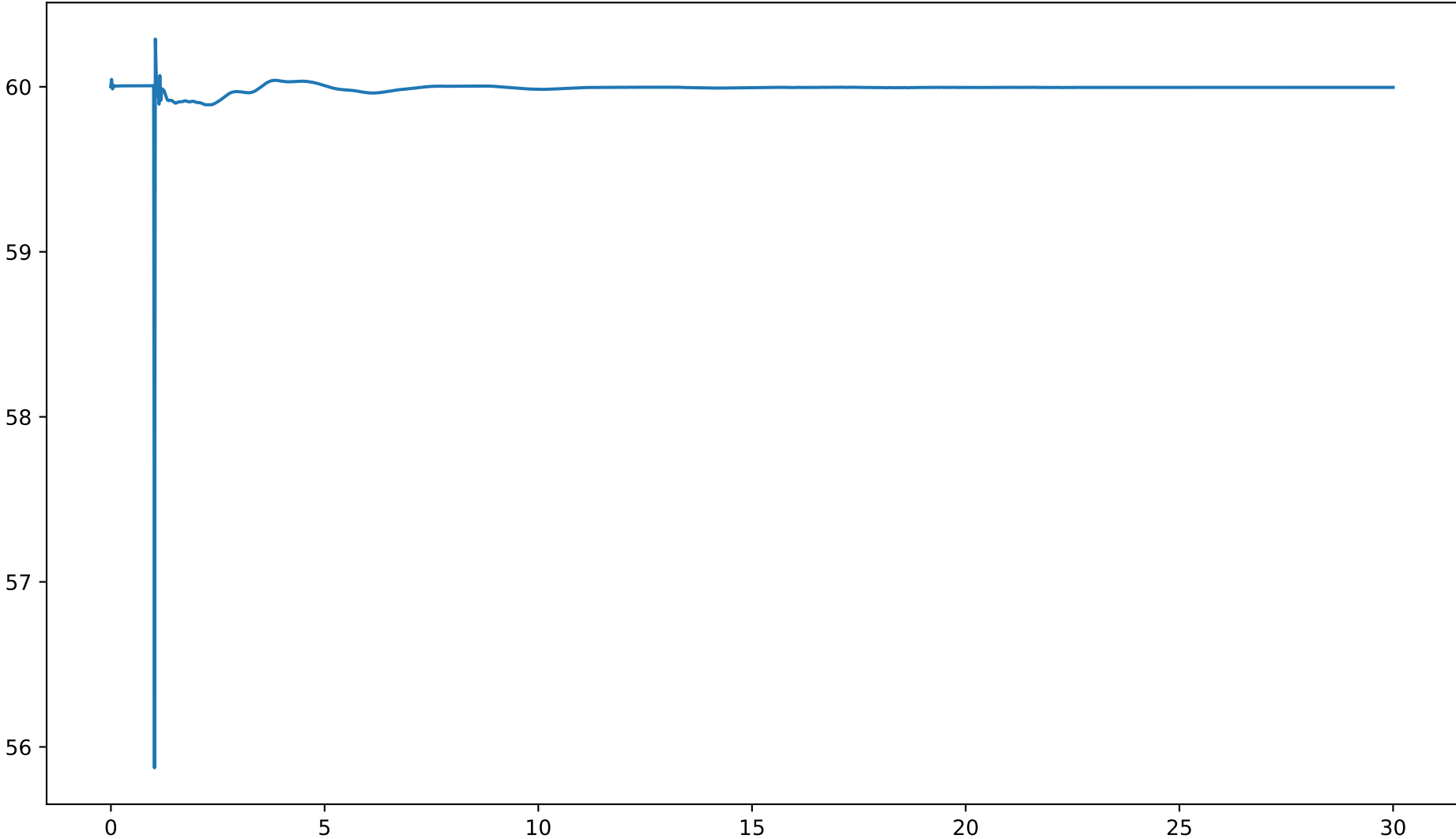


Caso: 1023-3-2029CA\_ModMax\_Lluv1 - Contingencia: 6005-6830-9A-C3\_CHO-ANT

## Angulos de Rotacion de Maquinas - Panama

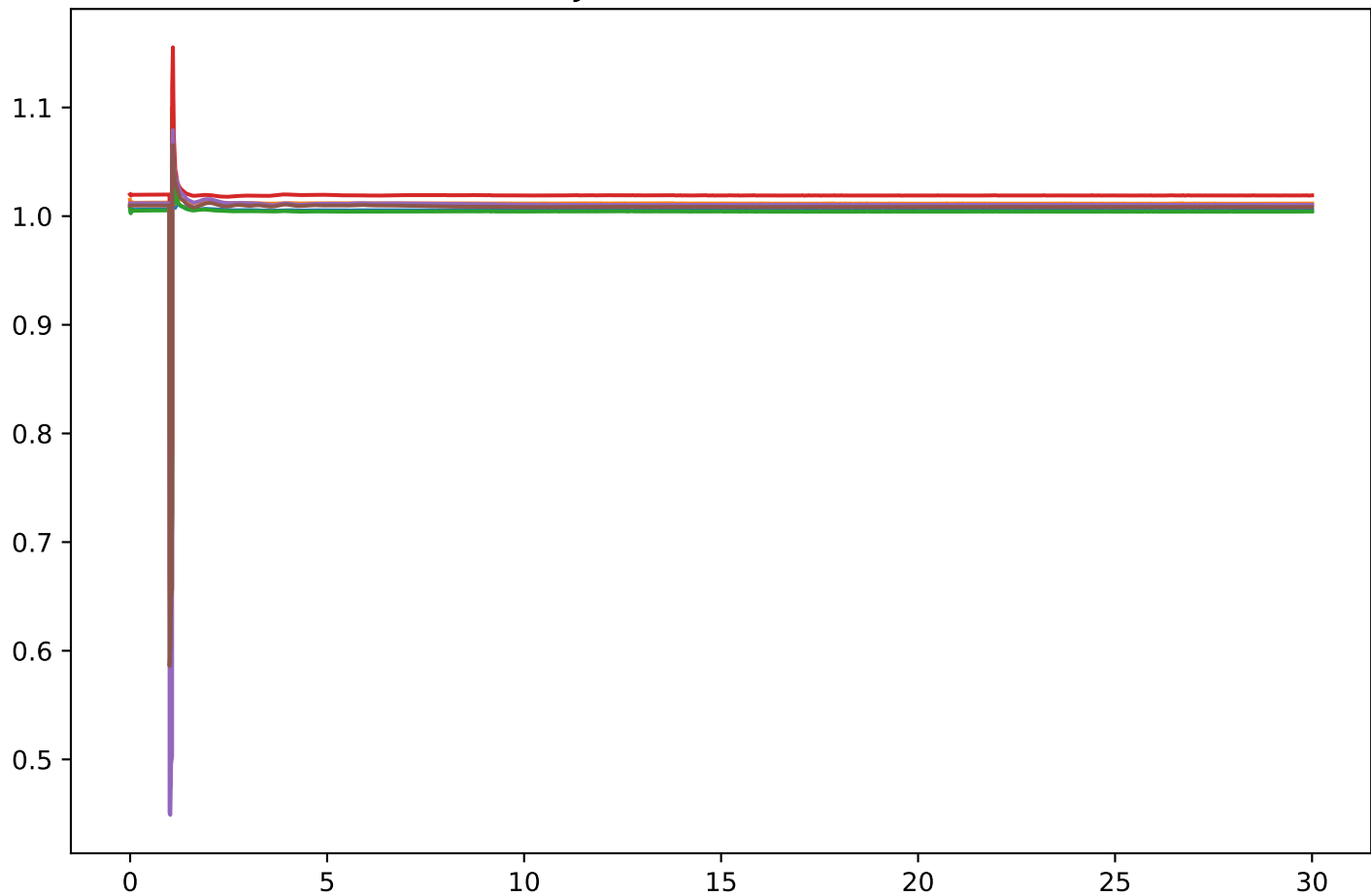


### Frecuencia (Hz)



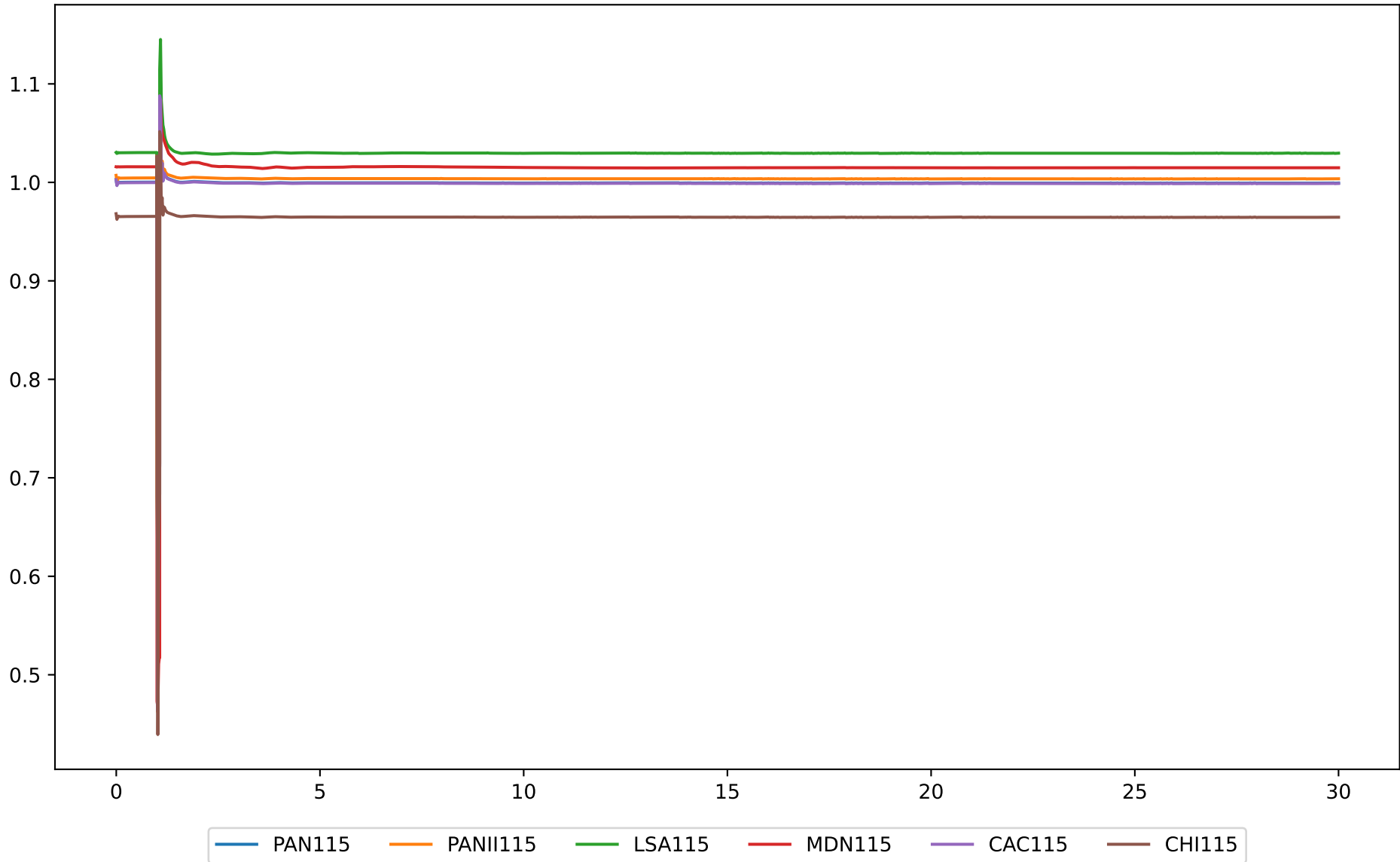
PAN115

# Voltajes 230kV - Panama

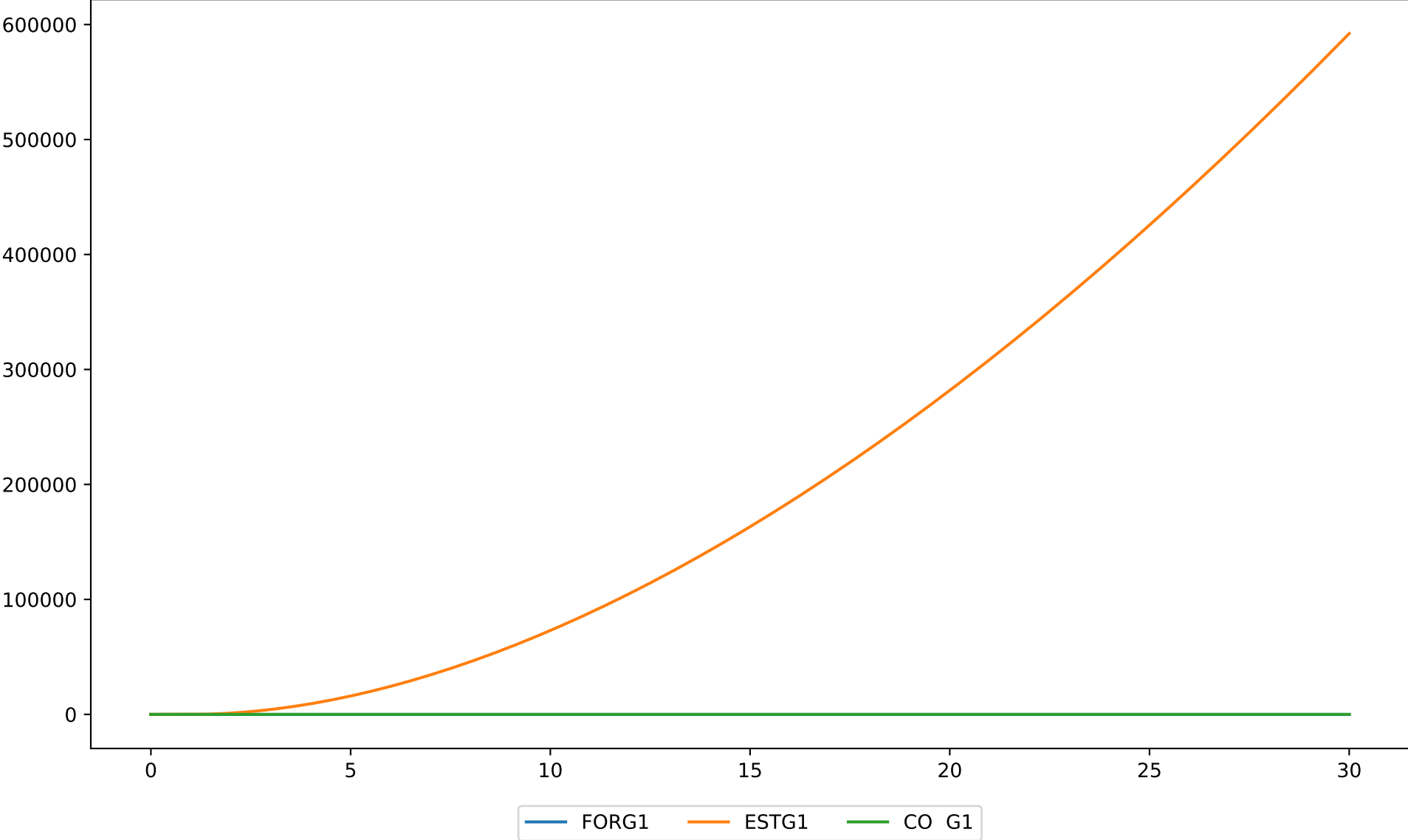


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama

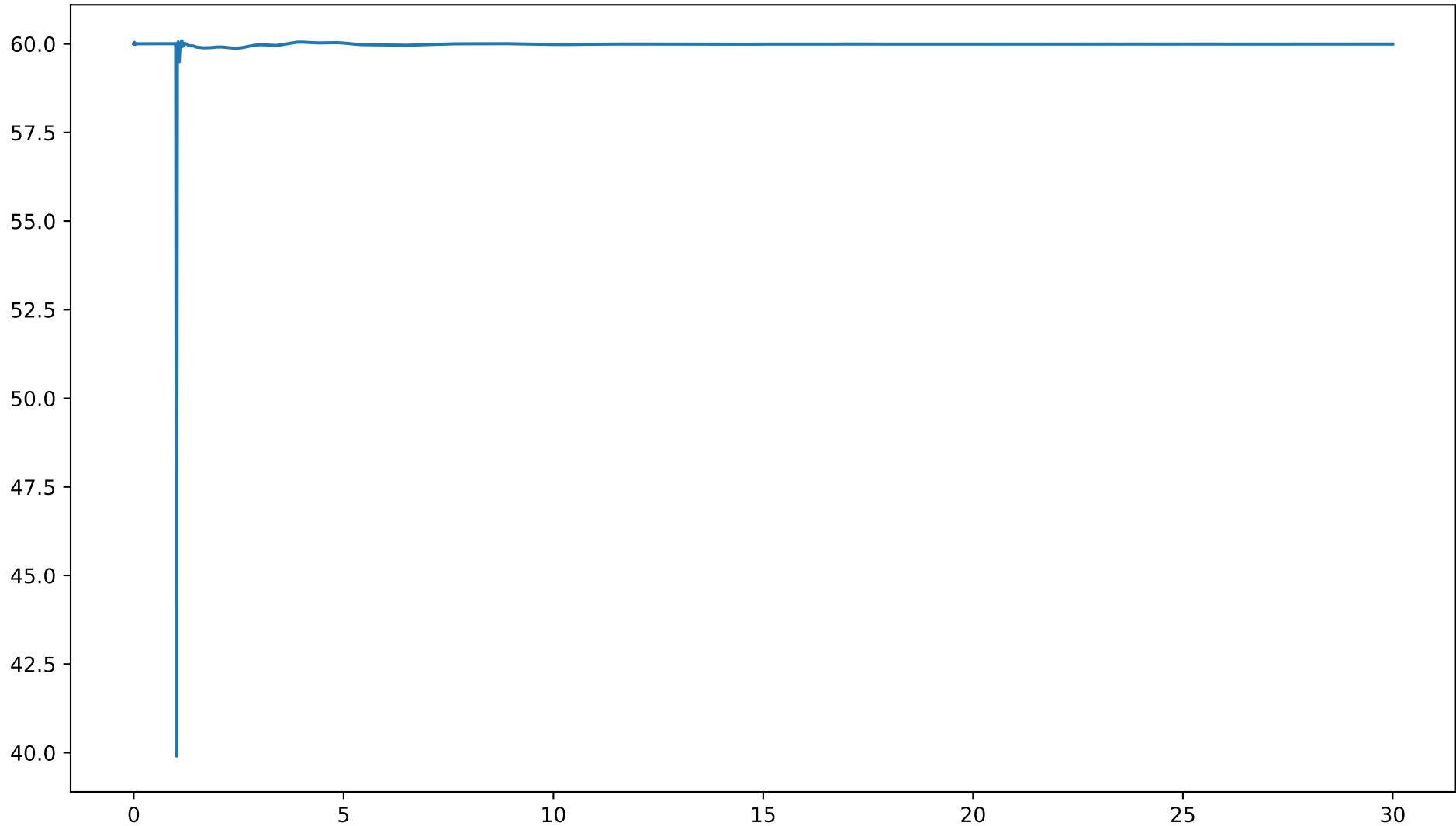


### Angulos de Rotacion de Maquinas - Panama



Caso: 1023-3-2029CA\_ModMax\_Lluv1 - Contingencia: 6179-6360-22-C5\_GUA-GLA

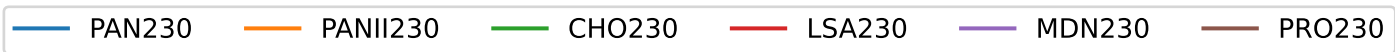
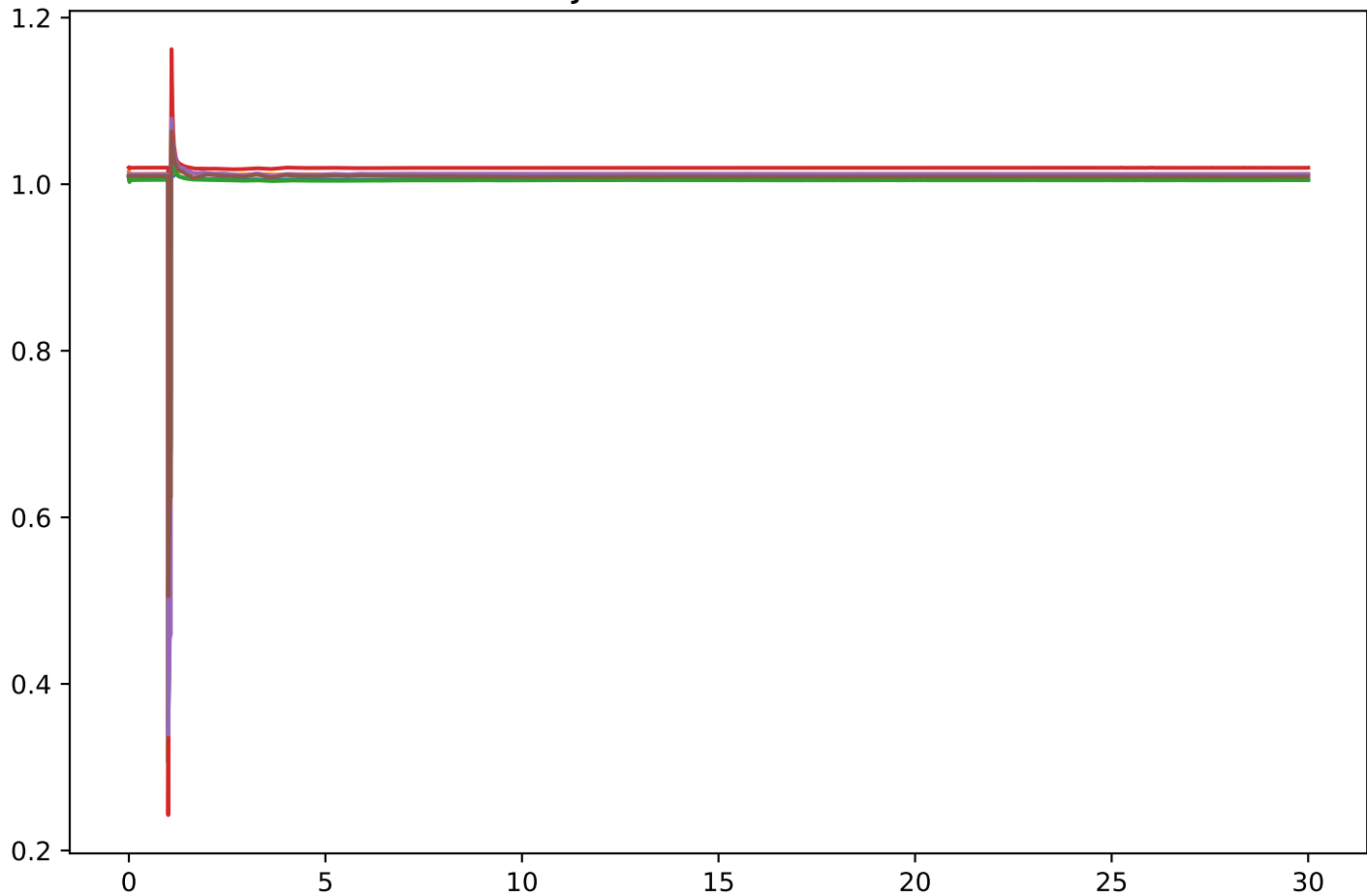
### Frecuencia (Hz)



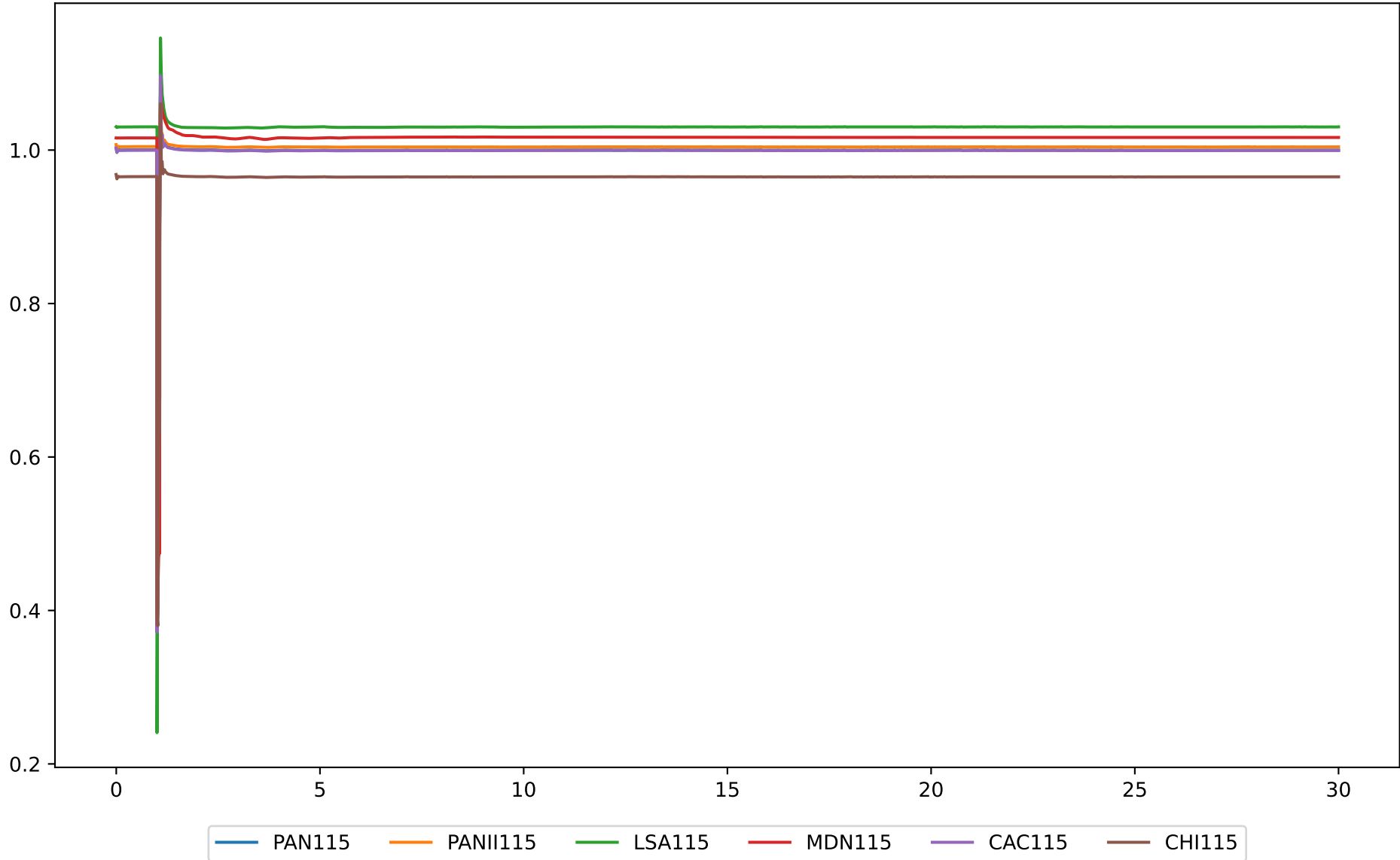
PAN115



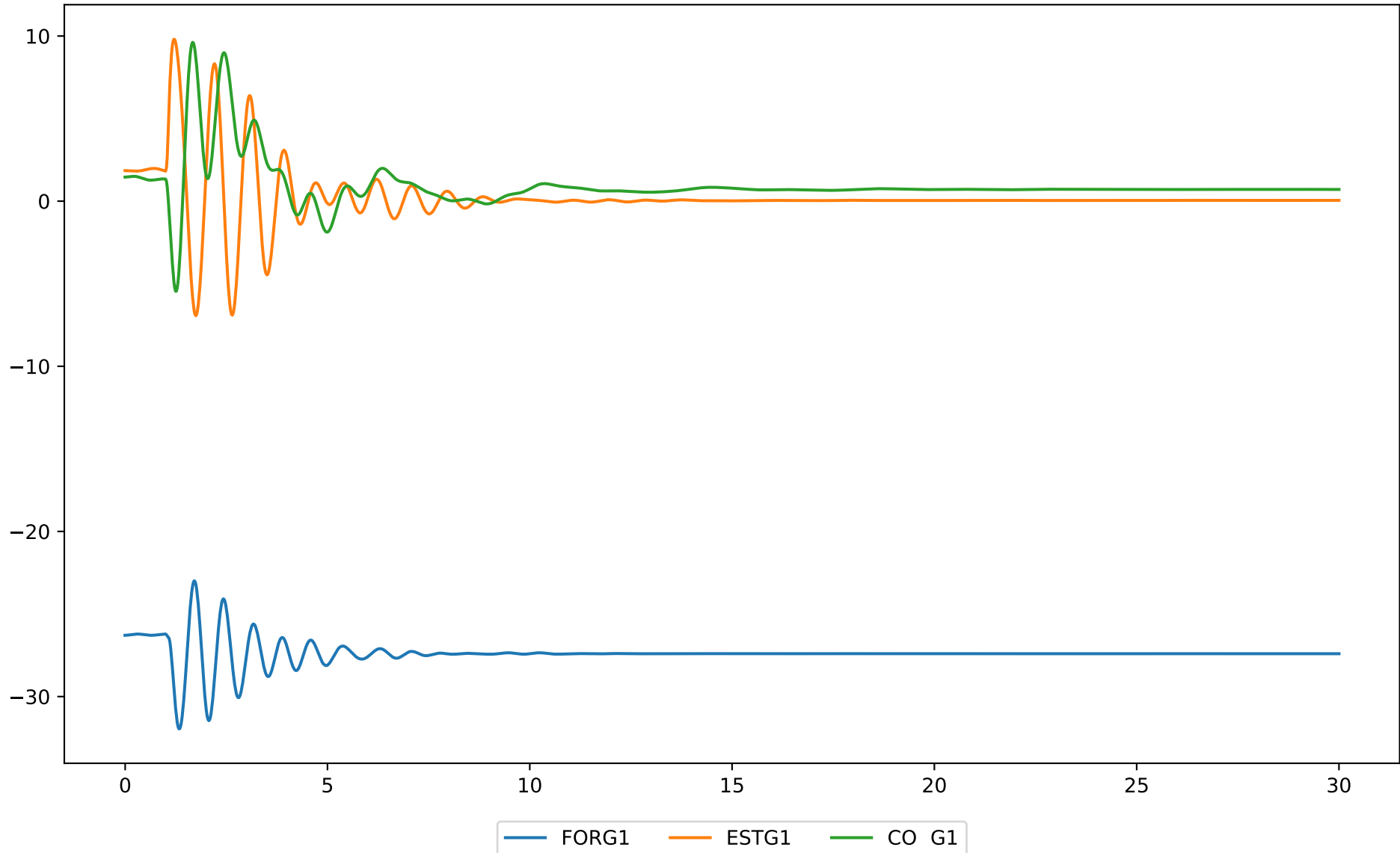
# Voltajes 230kV - Panama



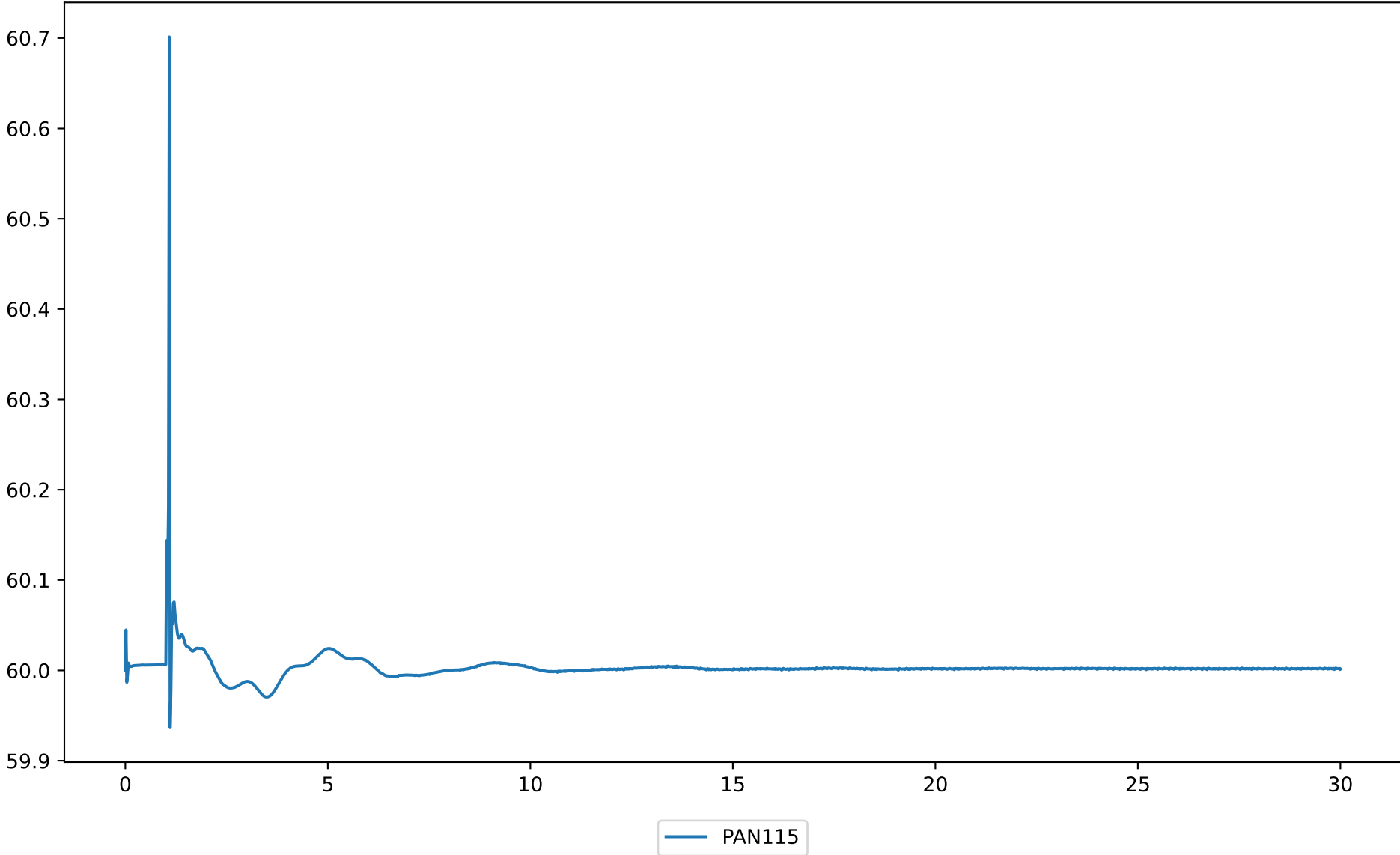
### Voltajes 115kV - Panama



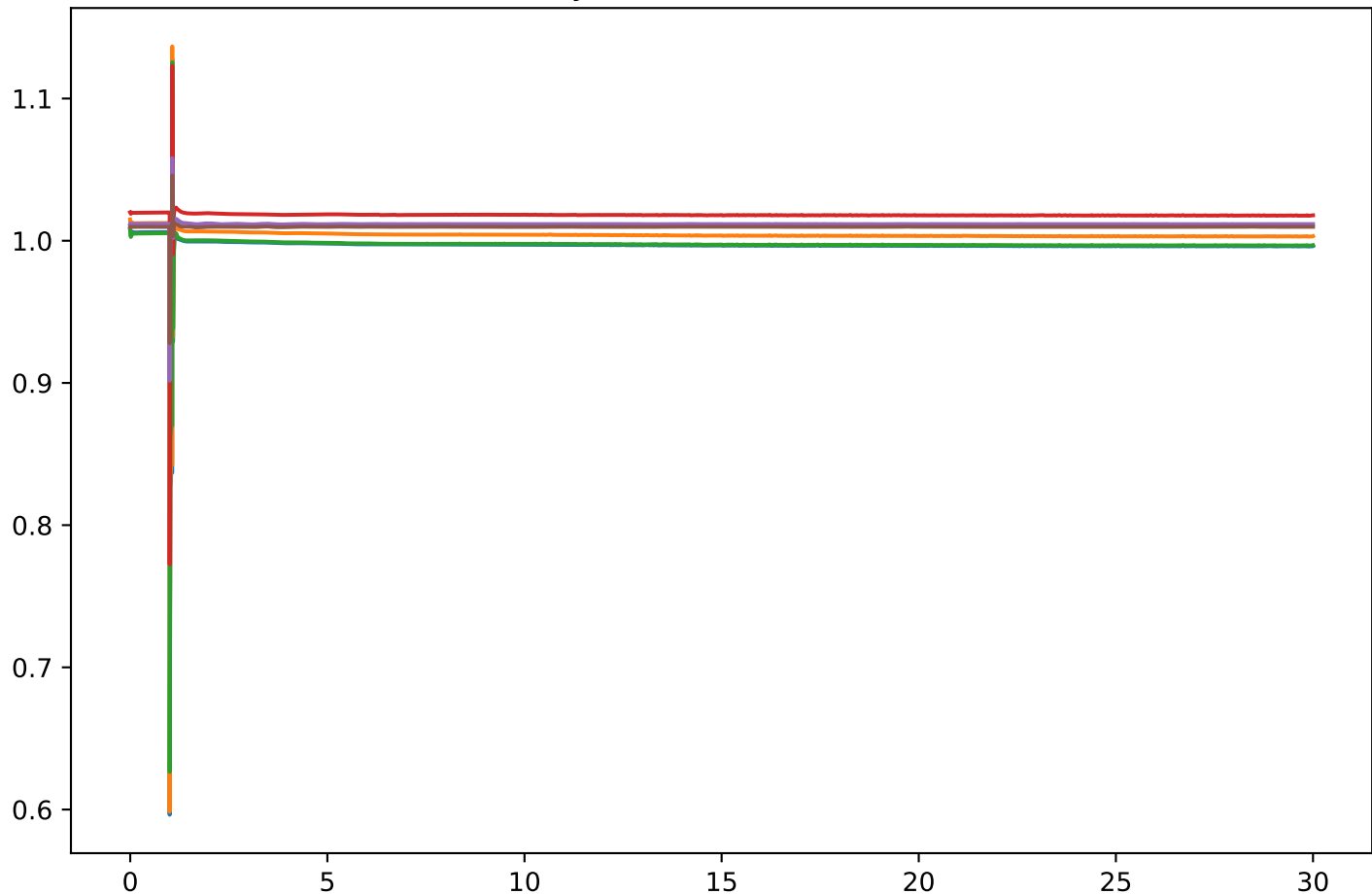
### Angulos de Rotacion de Maquinas - Panama



### Frecuencia (Hz)

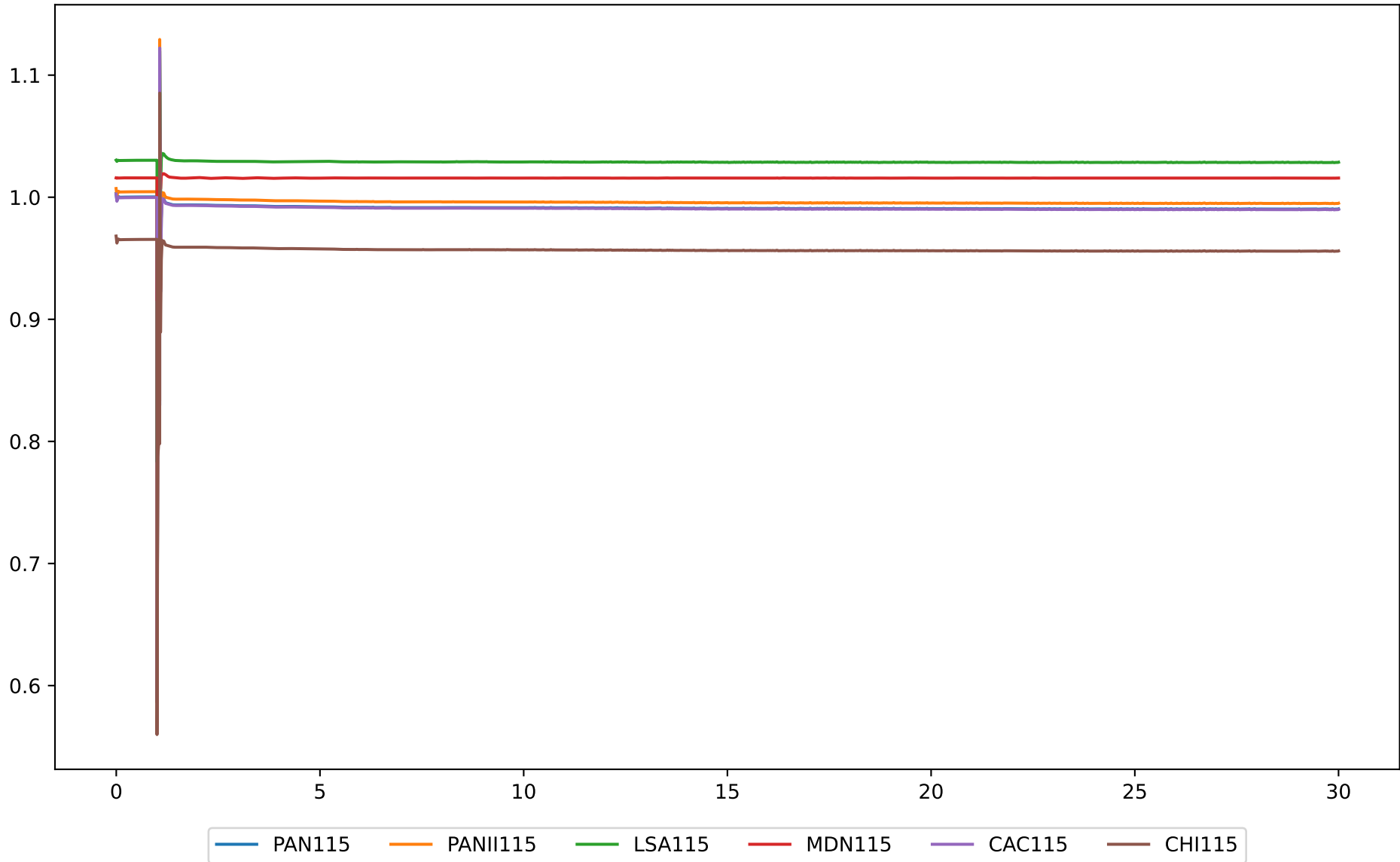


# Voltajes 230kV - Panama



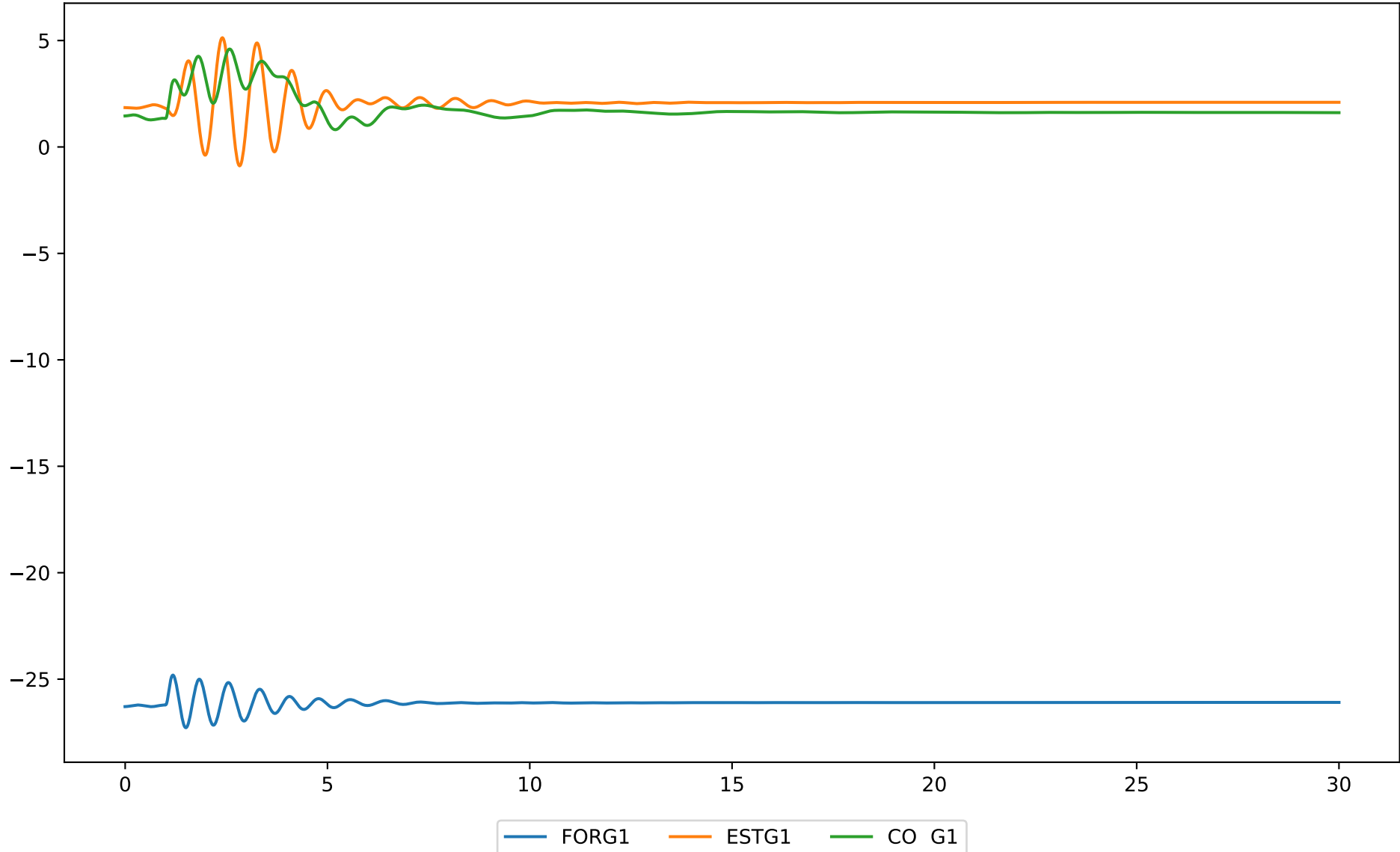
PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama

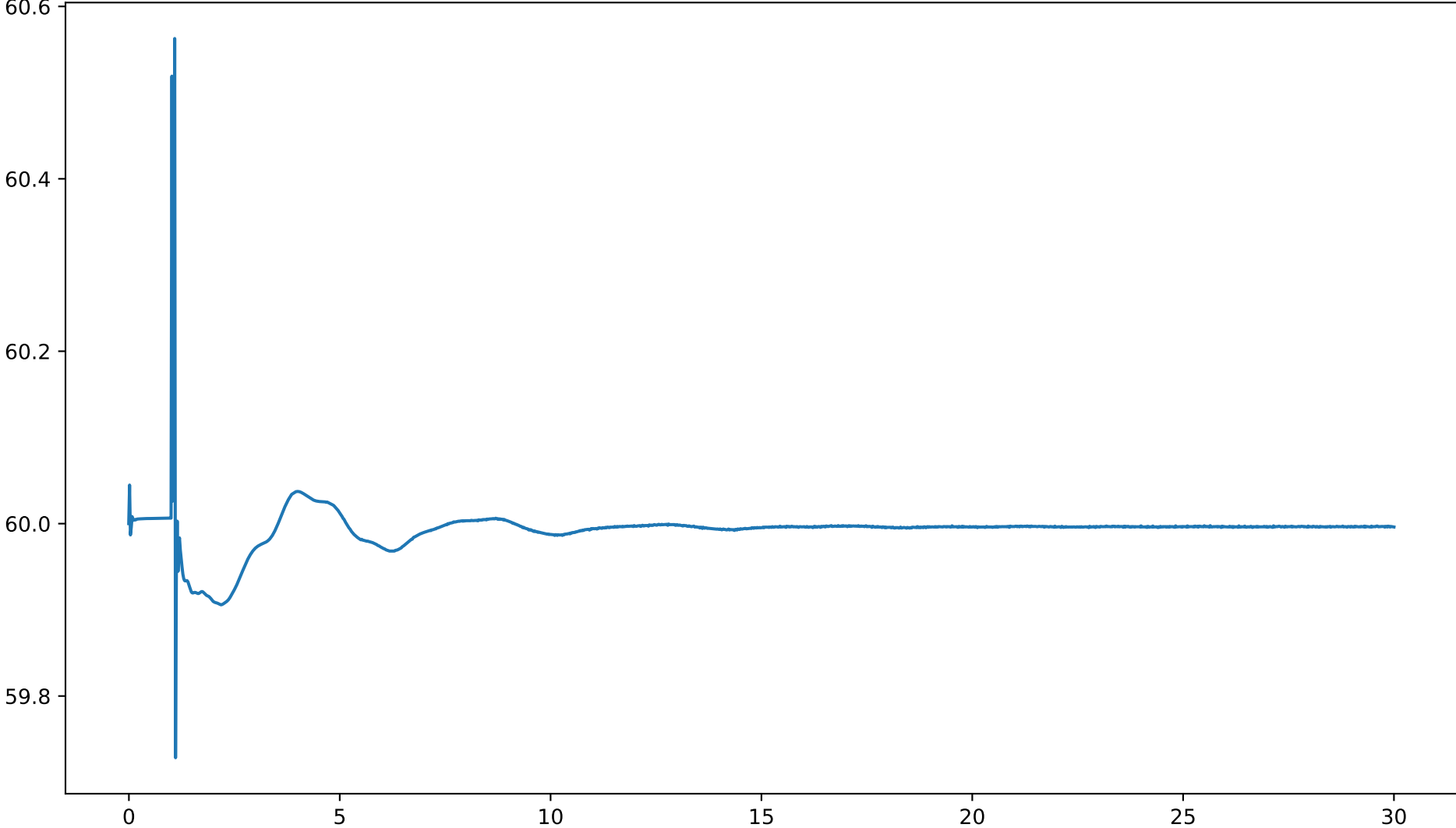


Caso: 1023-3-2029CA\_ModMax\_Lluv1 - Contingencia: 6820-6823-1-C9\_STC-PAN3

## Angulos de Rotacion de Maquinas - Panama



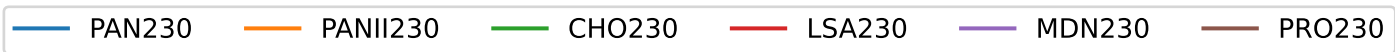
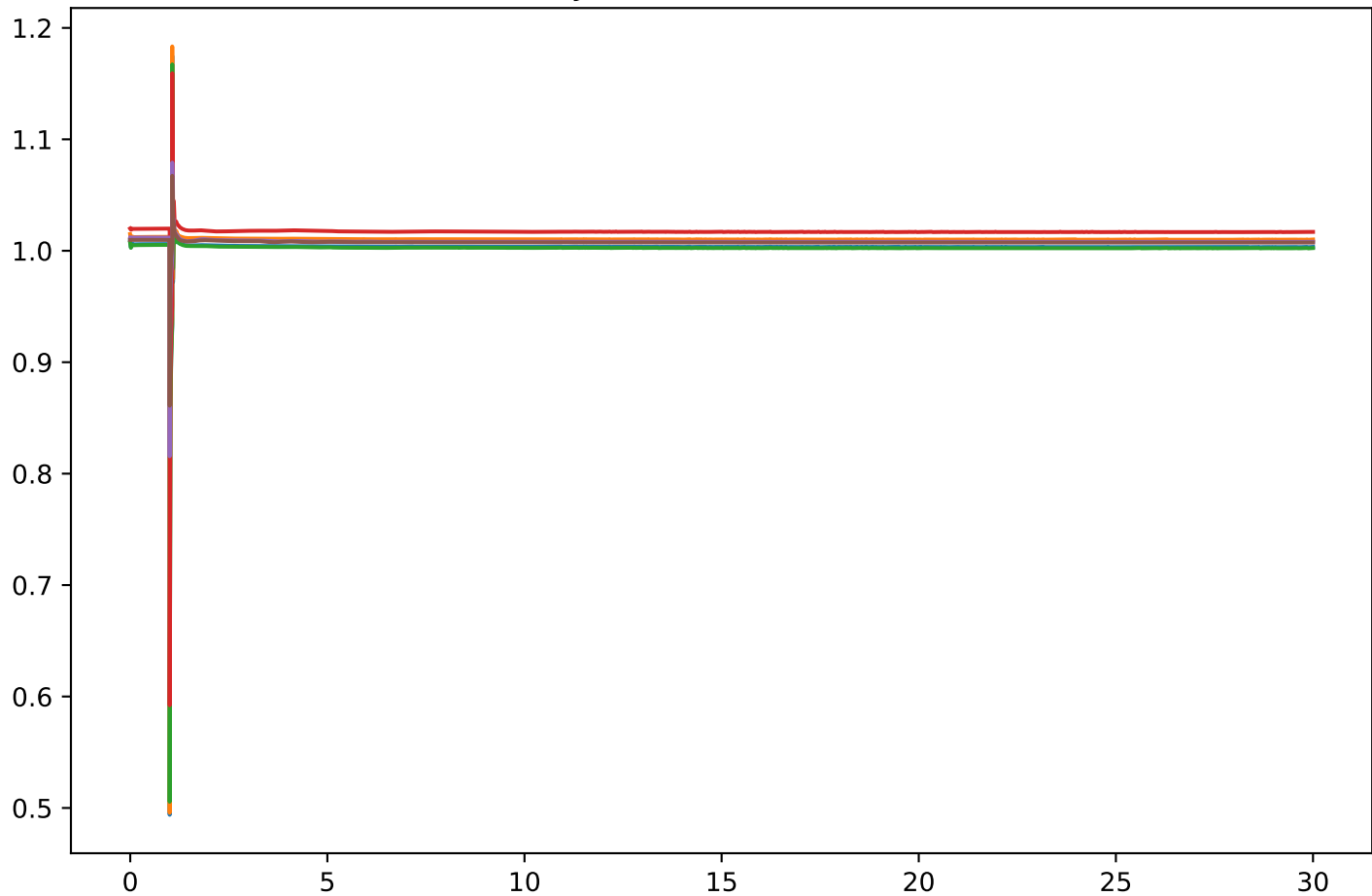
### Frecuencia (Hz)



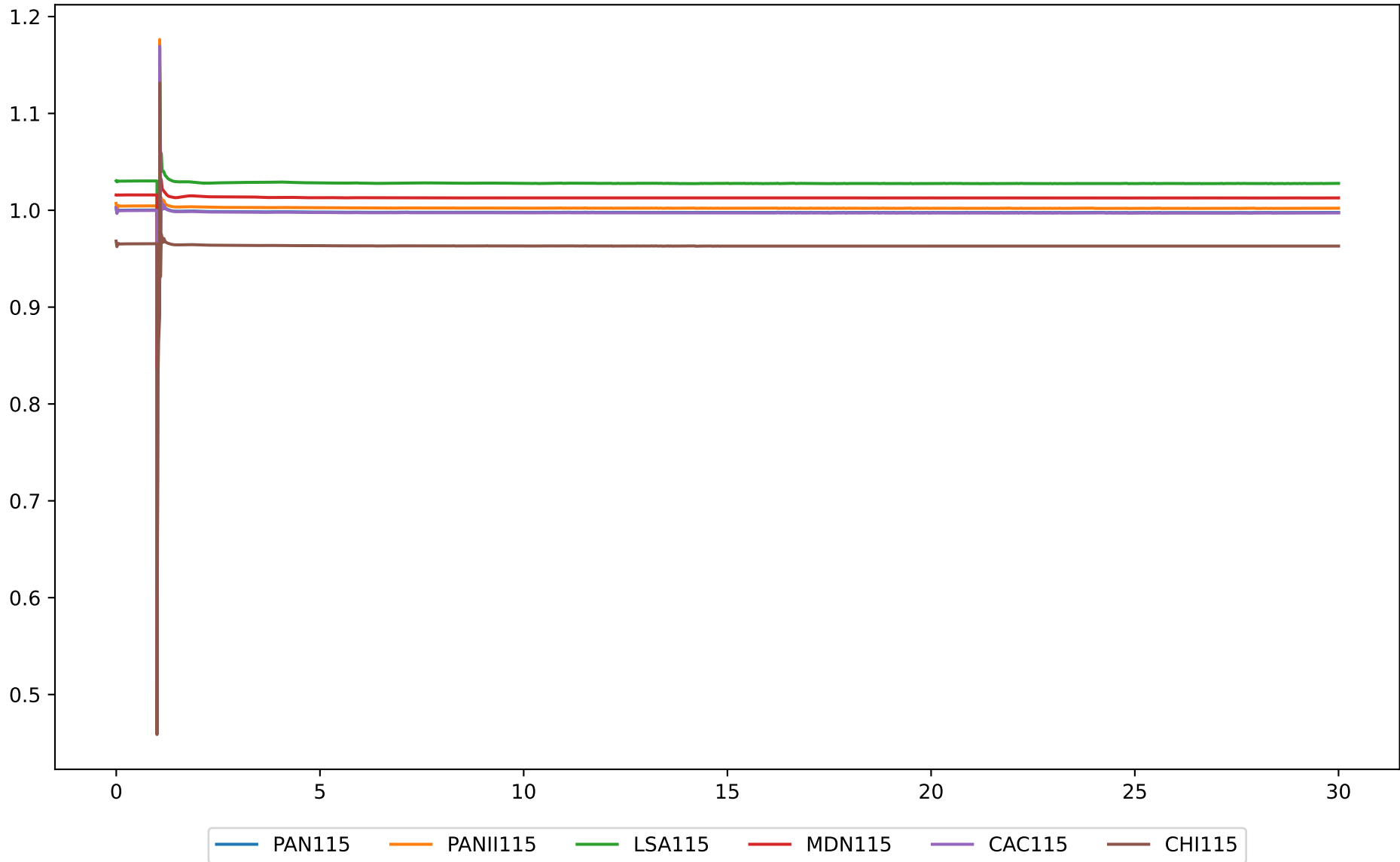
PAN115



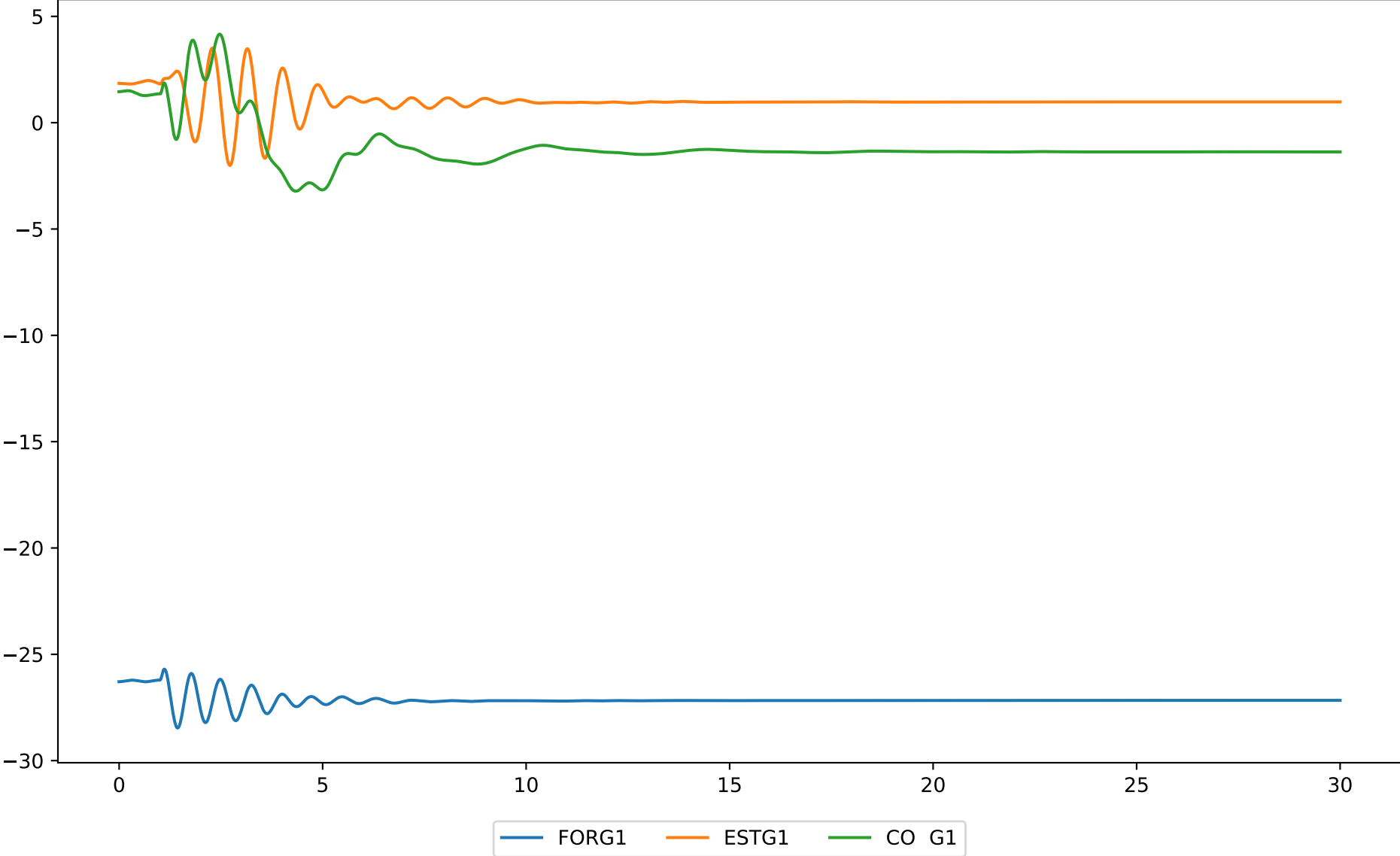
# Voltajes 230kV - Panama



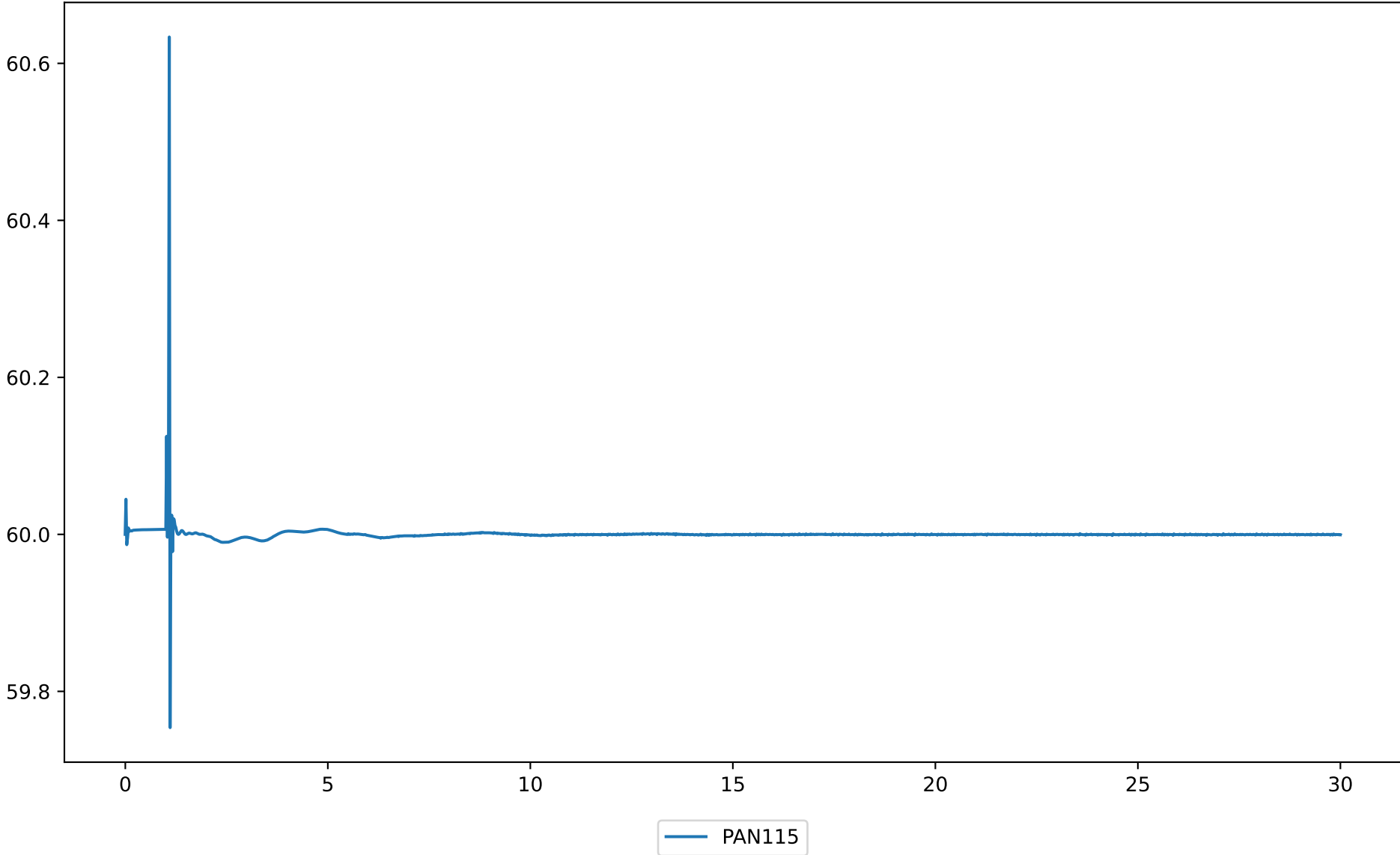
### Voltajes 115kV - Panama



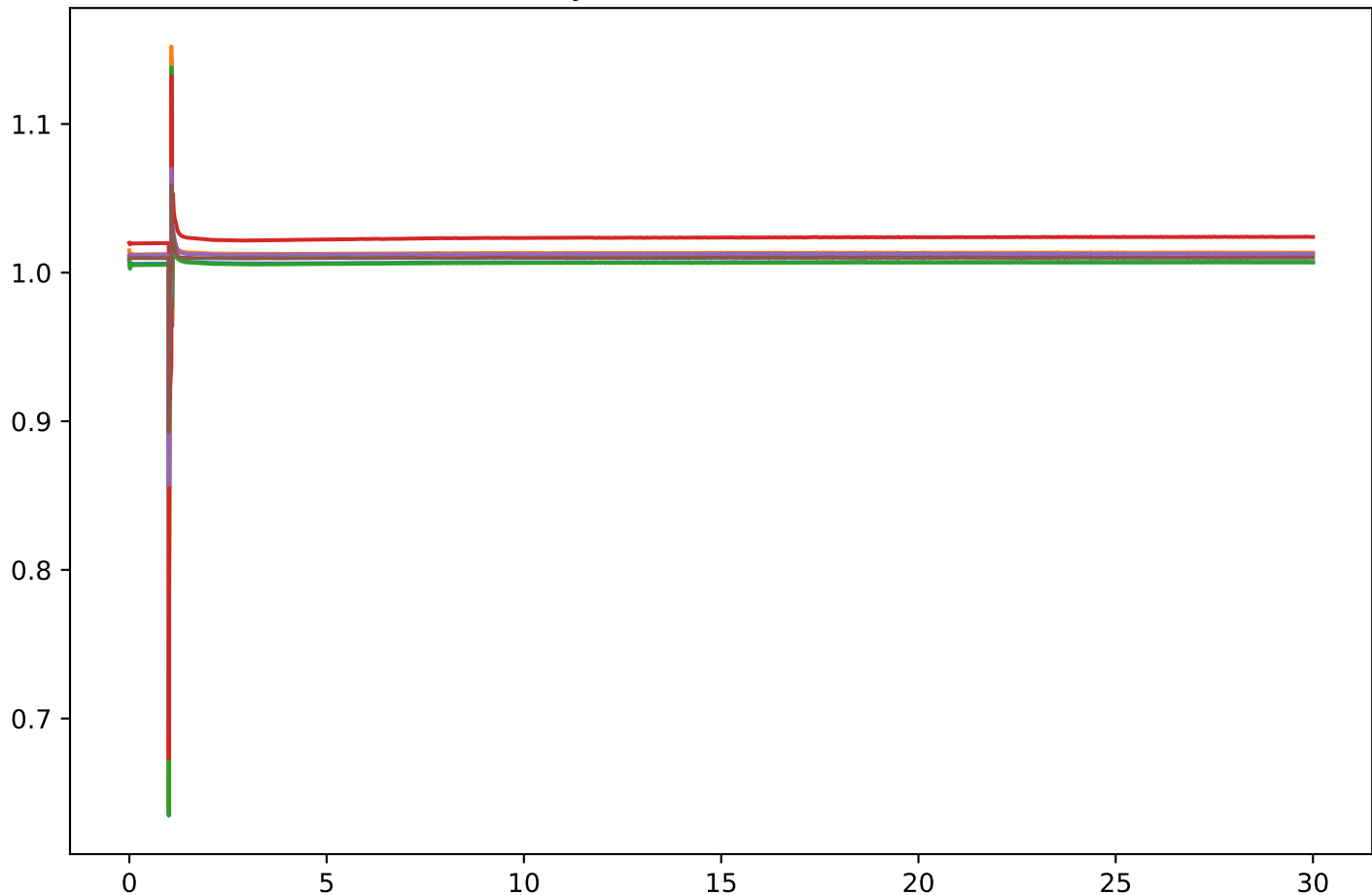
### Angulos de Rotacion de Maquinas - Panama



### Frecuencia (Hz)

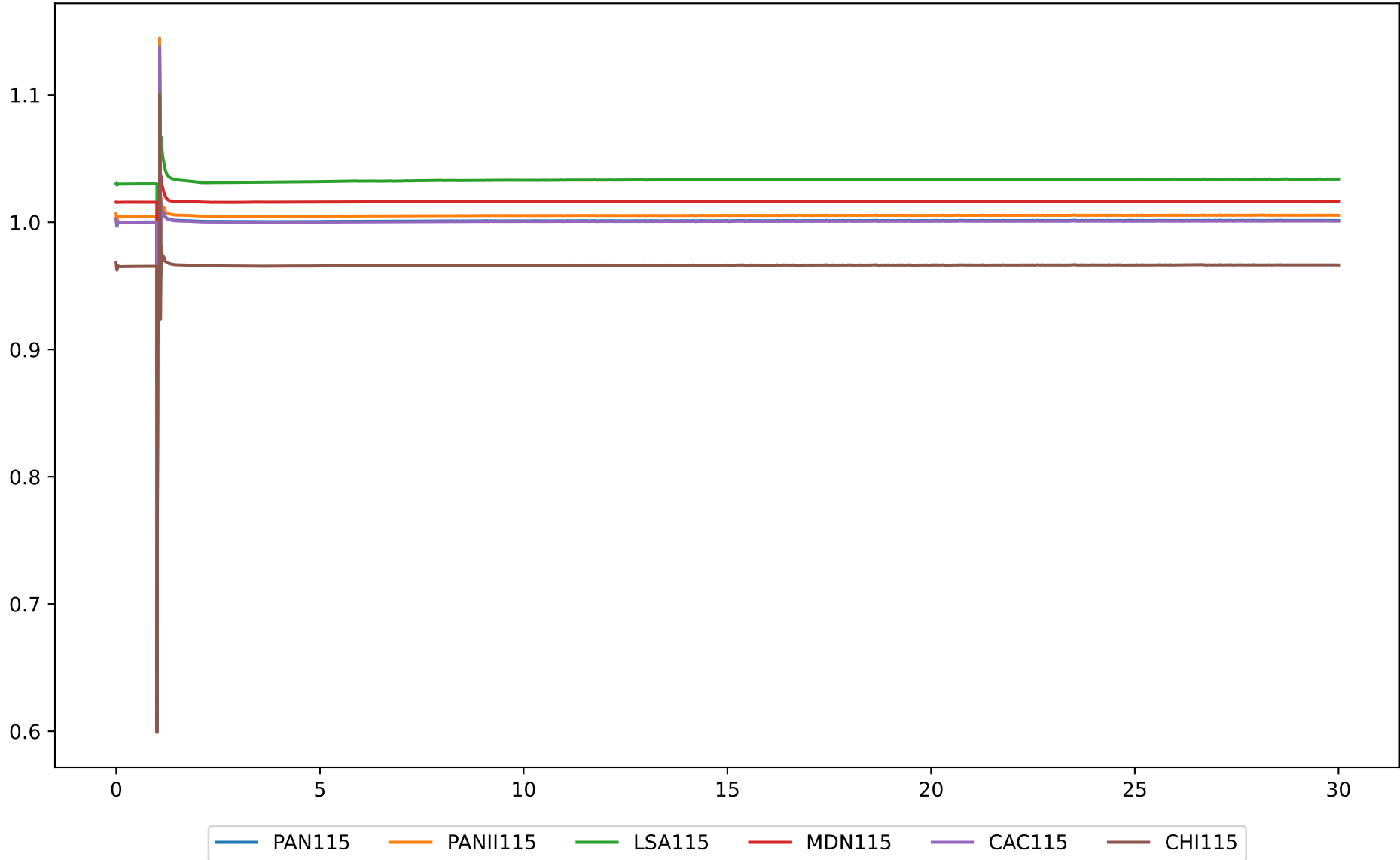


# Voltajes 230kV - Panama



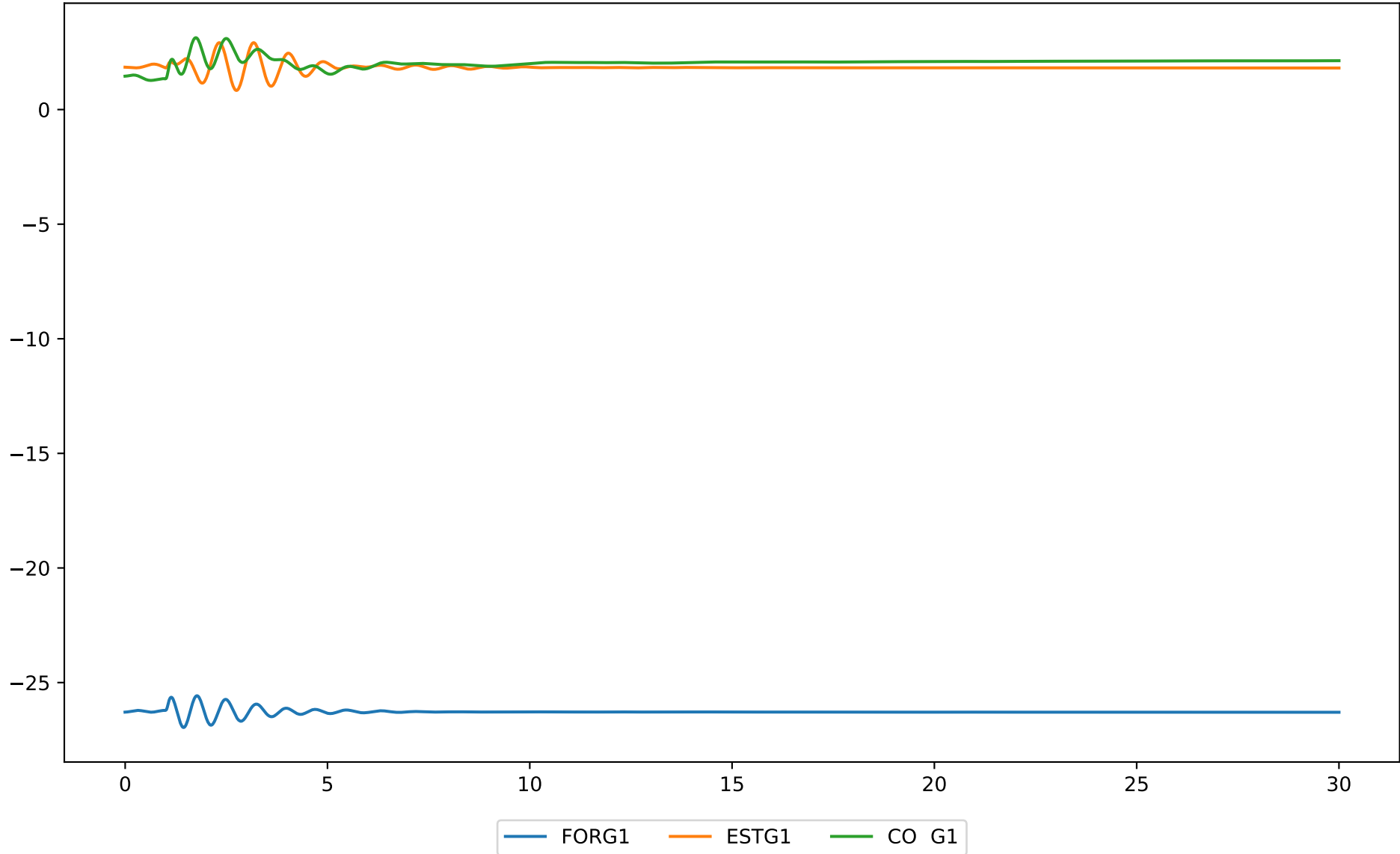
PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama

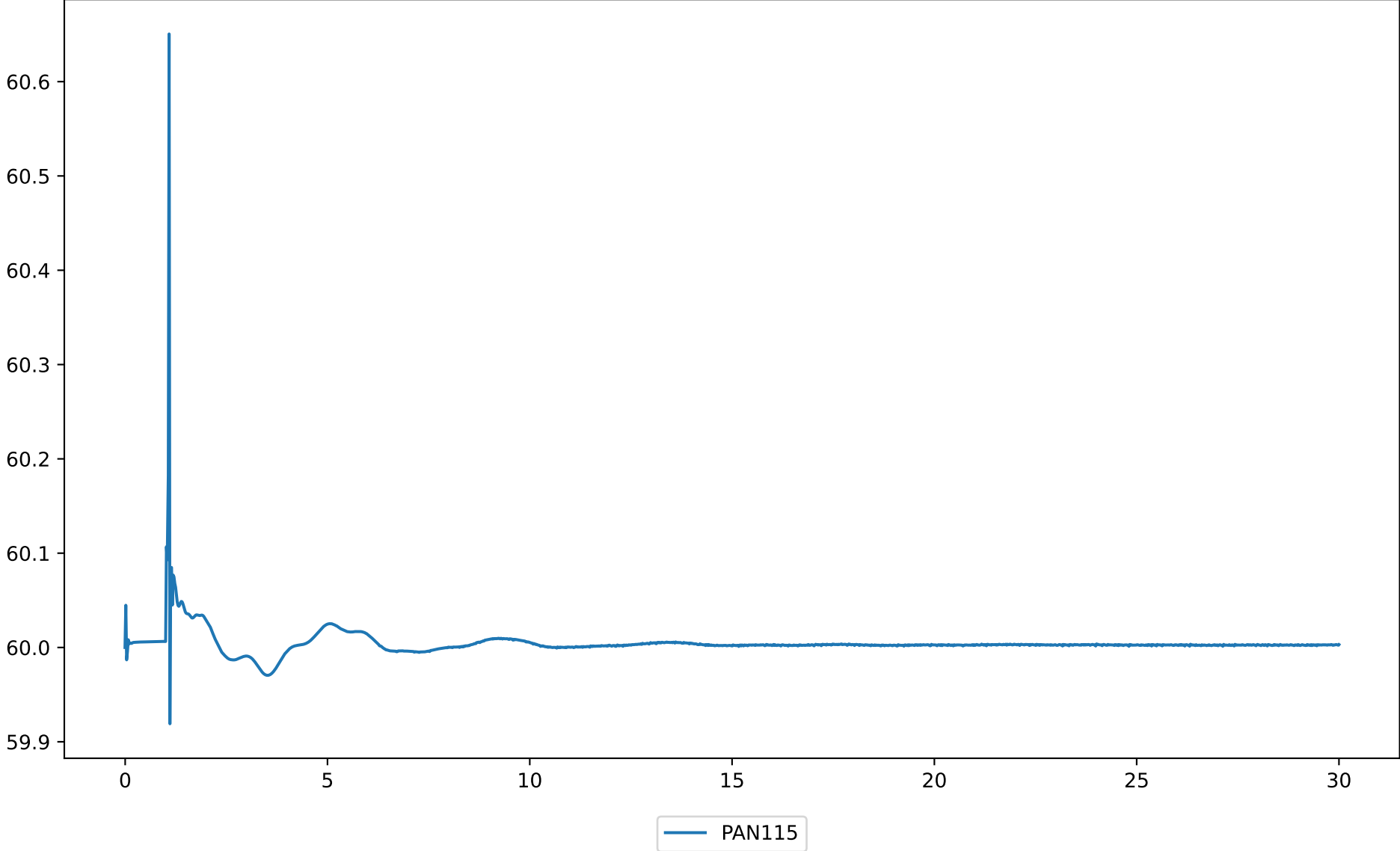


Caso: 1023-3-2029CA\_ModMax\_Lluv1 - Contingencia: 6812-6811-T4-C7\_STC-LSA

## Angulos de Rotacion de Maquinas - Panama

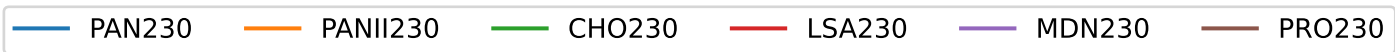
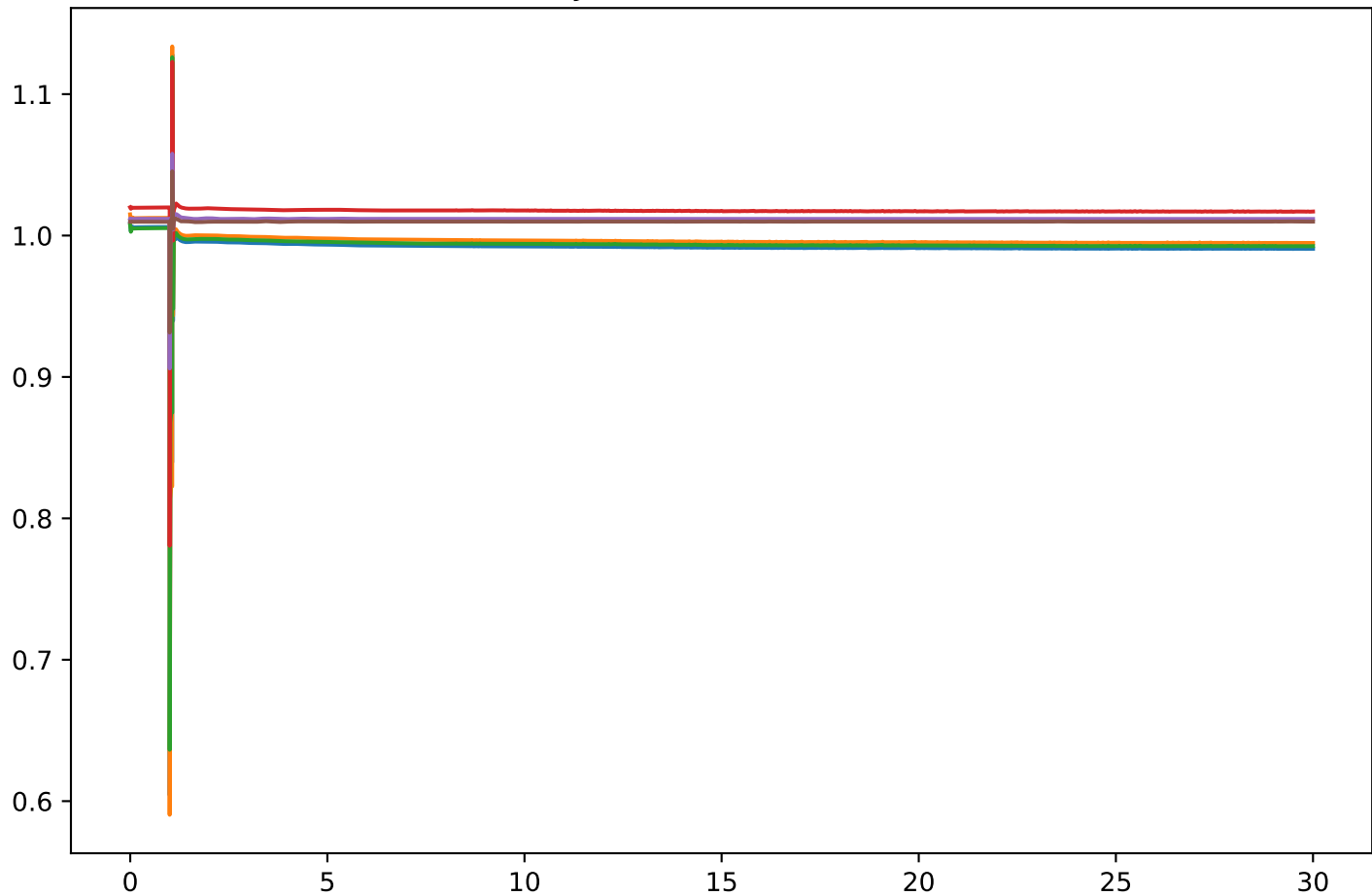


### Frecuencia (Hz)

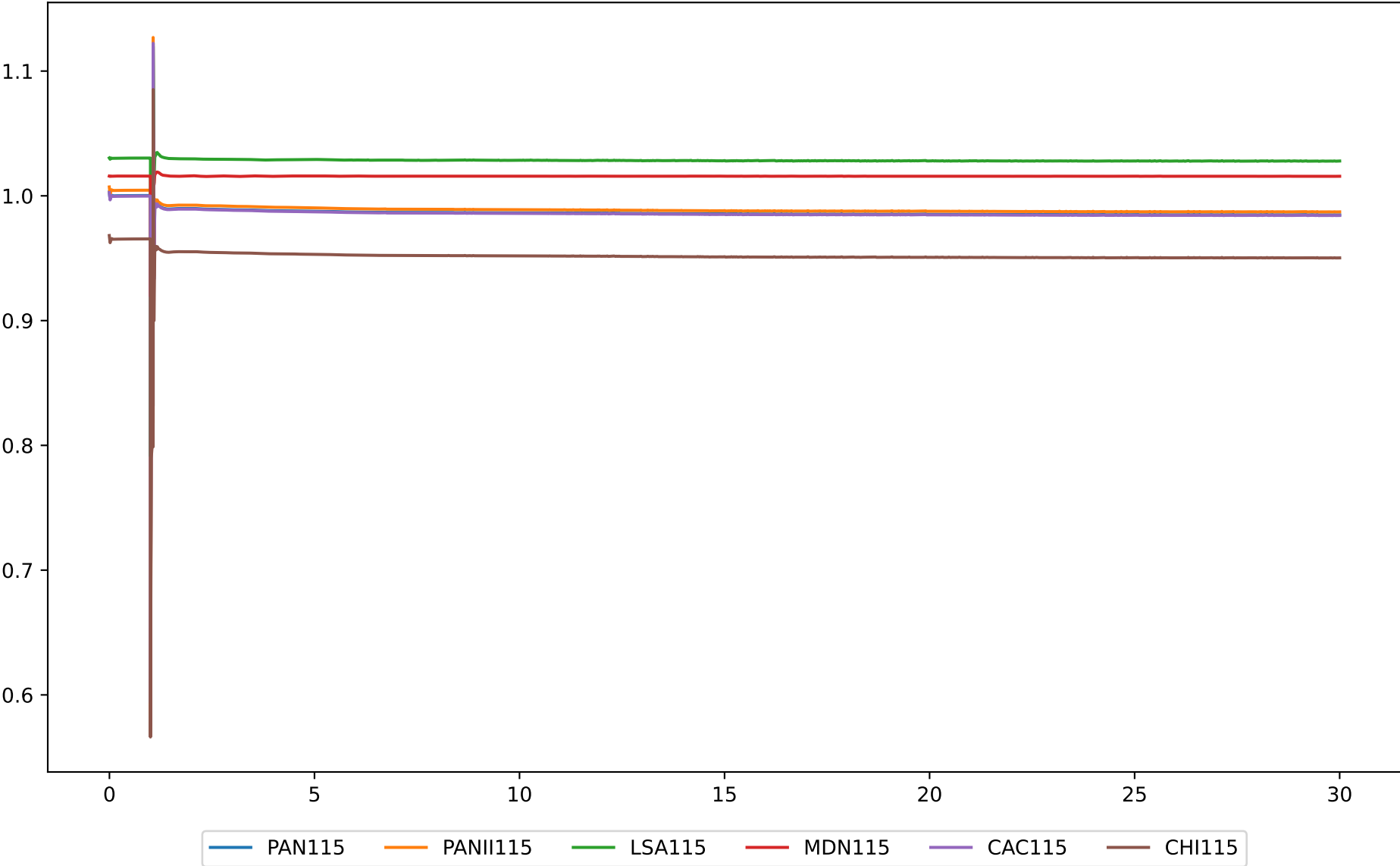




# Voltajes 230kV - Panama

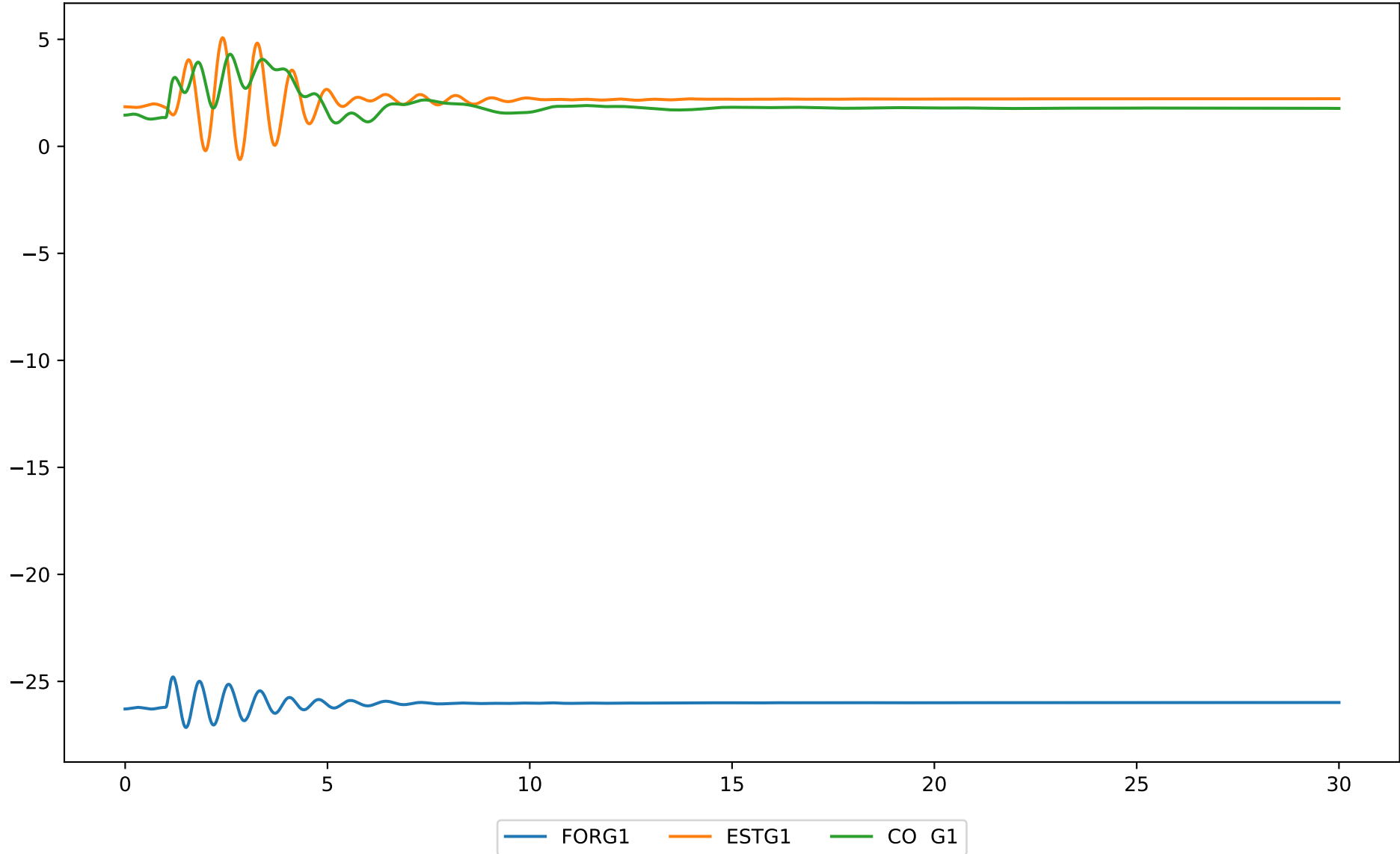


### Voltajes 115kV - Panama

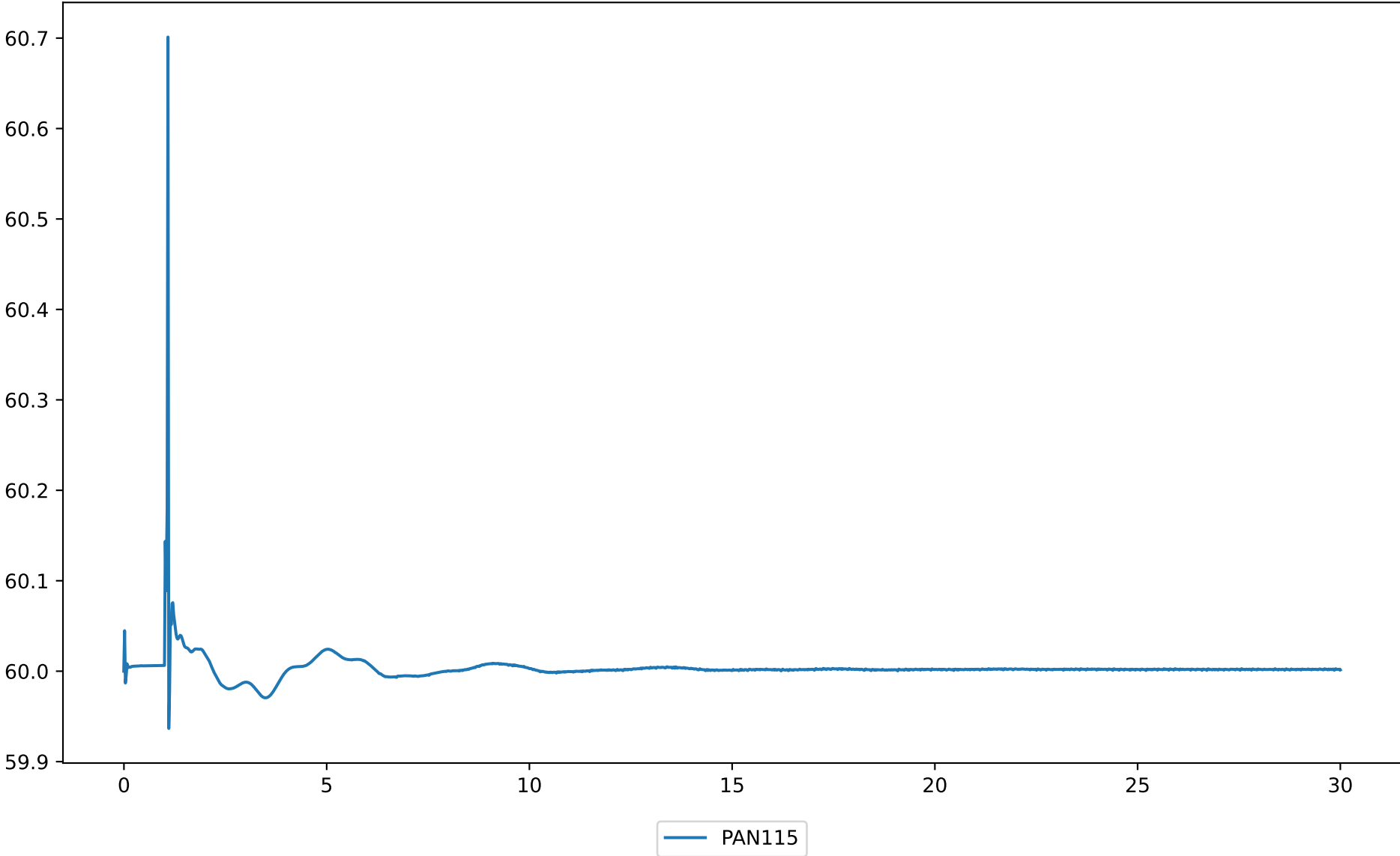


Caso: 1023-3-2029CA\_ModMax\_Lluv1 - Contingencia: 6817-6816-T4-C8\_STC-PANII

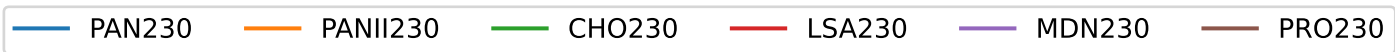
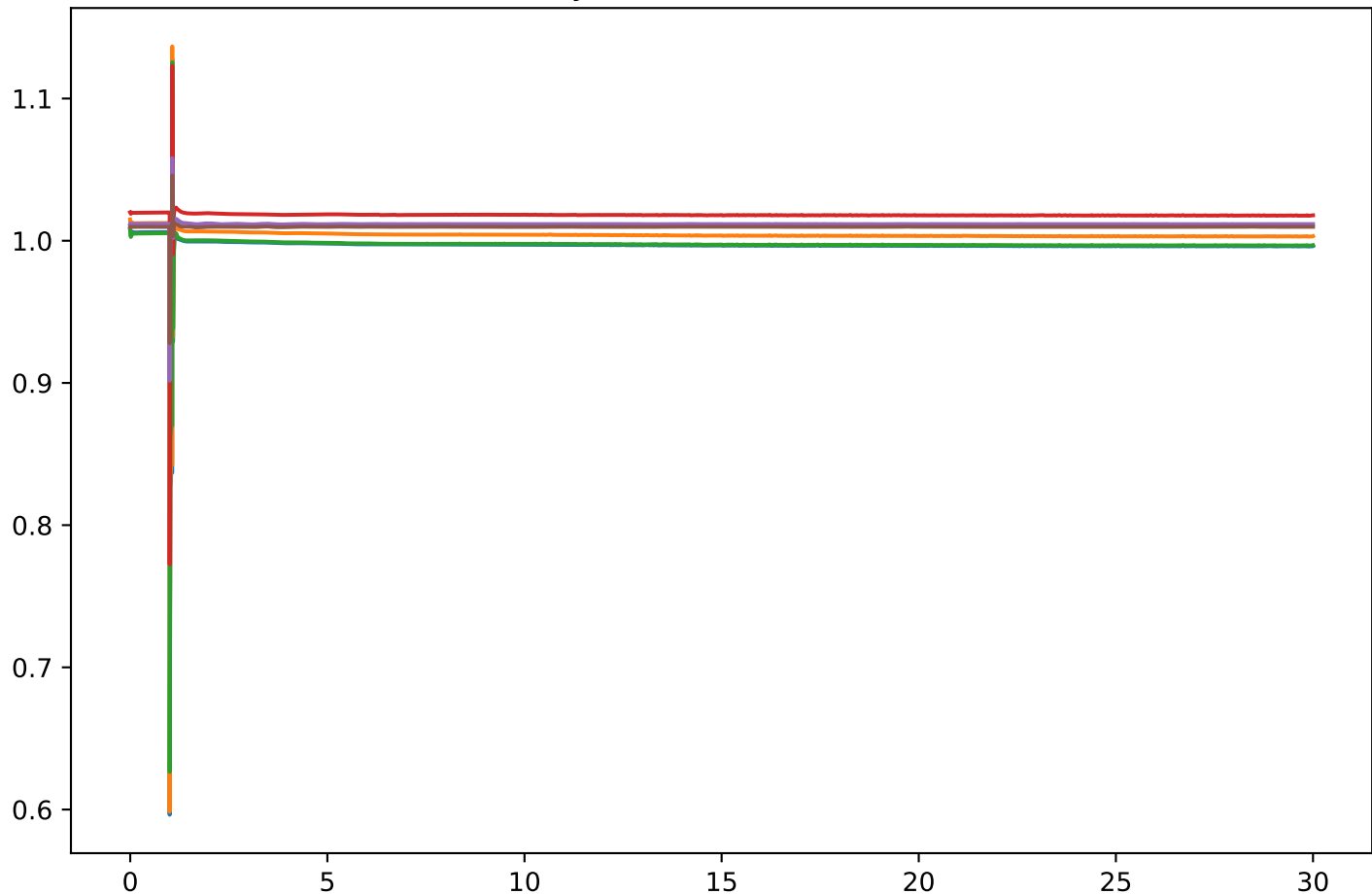
## Angulos de Rotacion de Maquinas - Panama



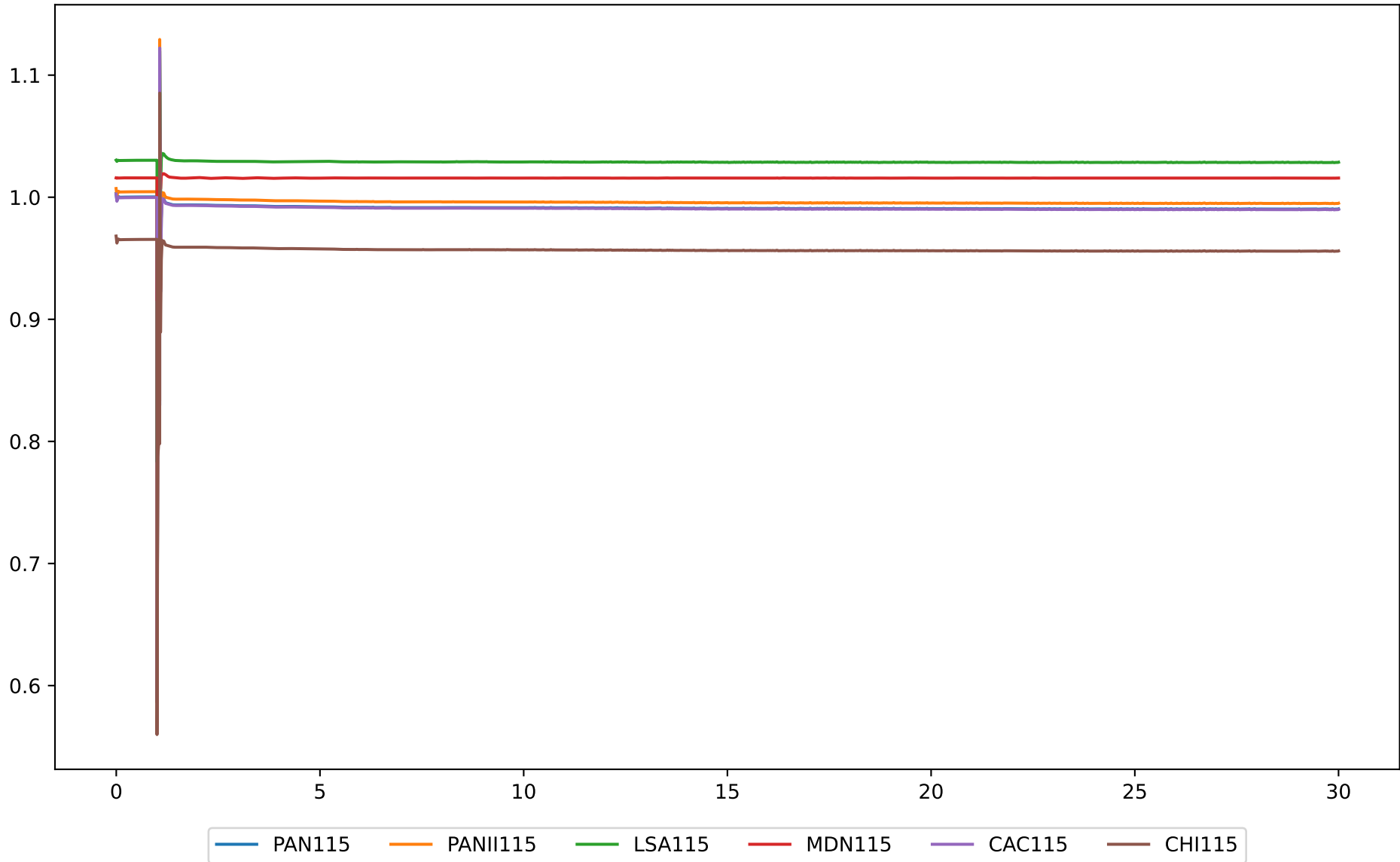
### Frecuencia (Hz)



# Voltajes 230kV - Panama

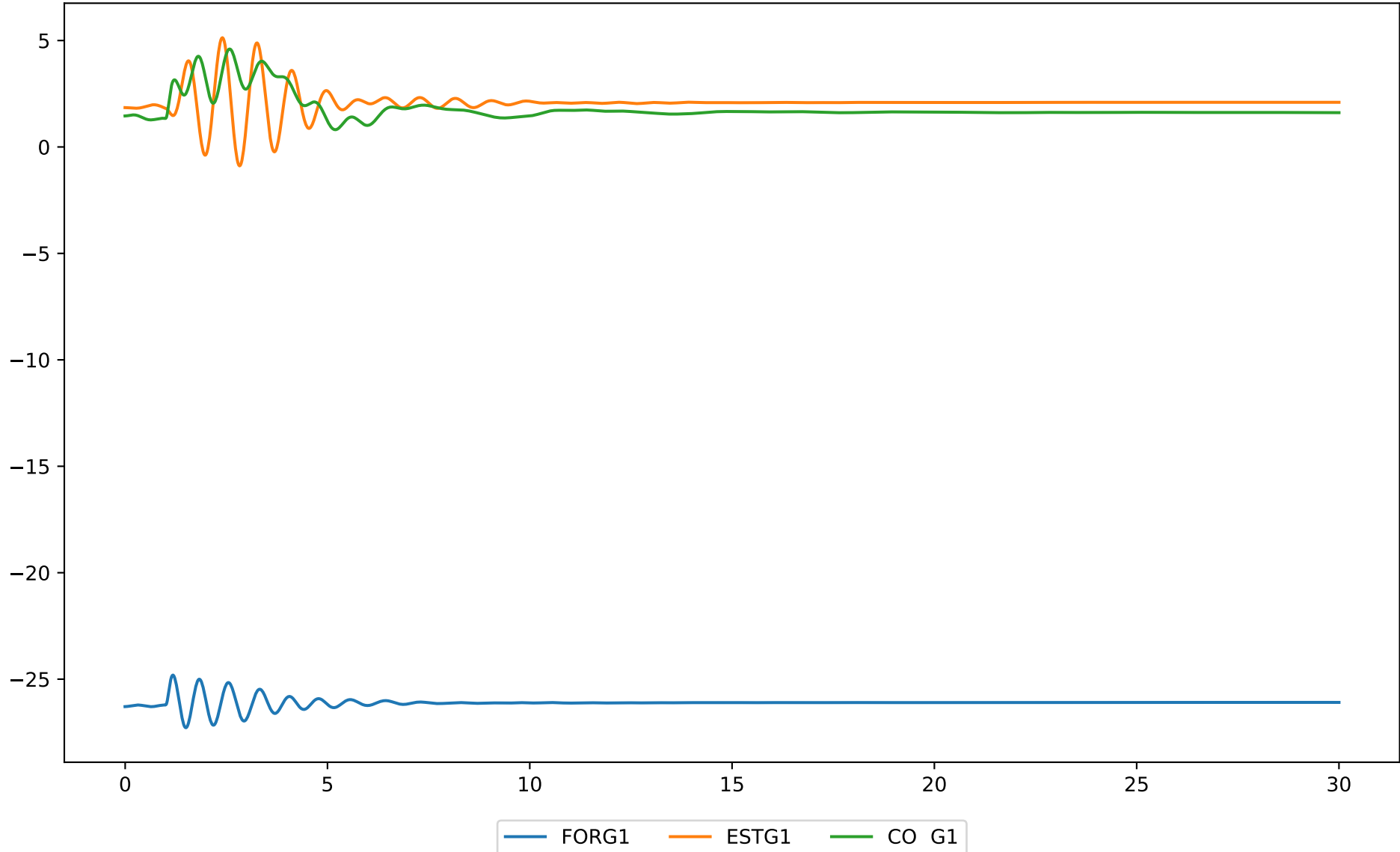


### Voltajes 115kV - Panama



Caso: 1023-3-2029CA\_ModMax\_Lluv1 - Contingencia: 6820-6823-1-C9\_STC-PAN3

## Angulos de Rotacion de Maquinas - Panama



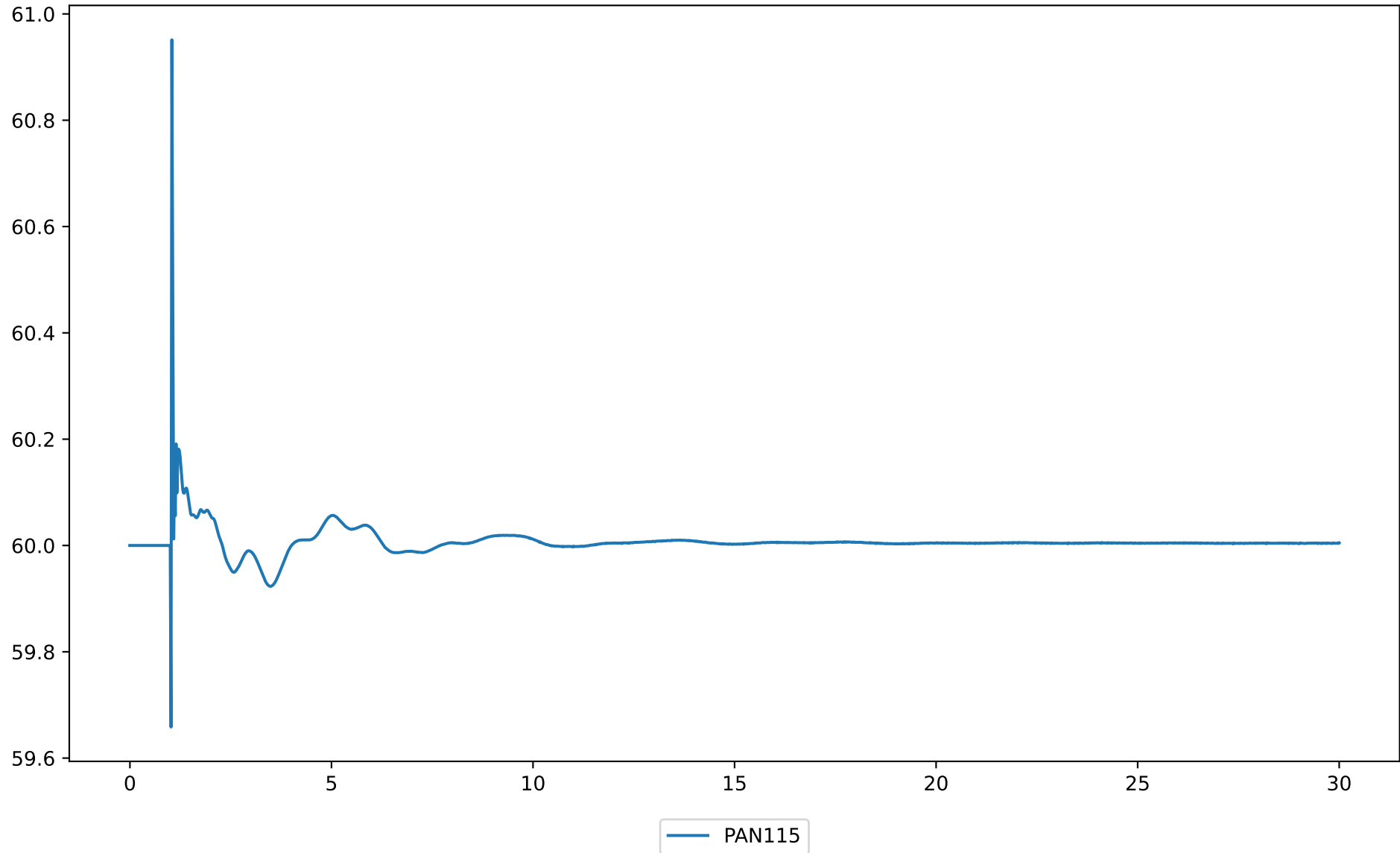
**2029 LLUVIOSA**



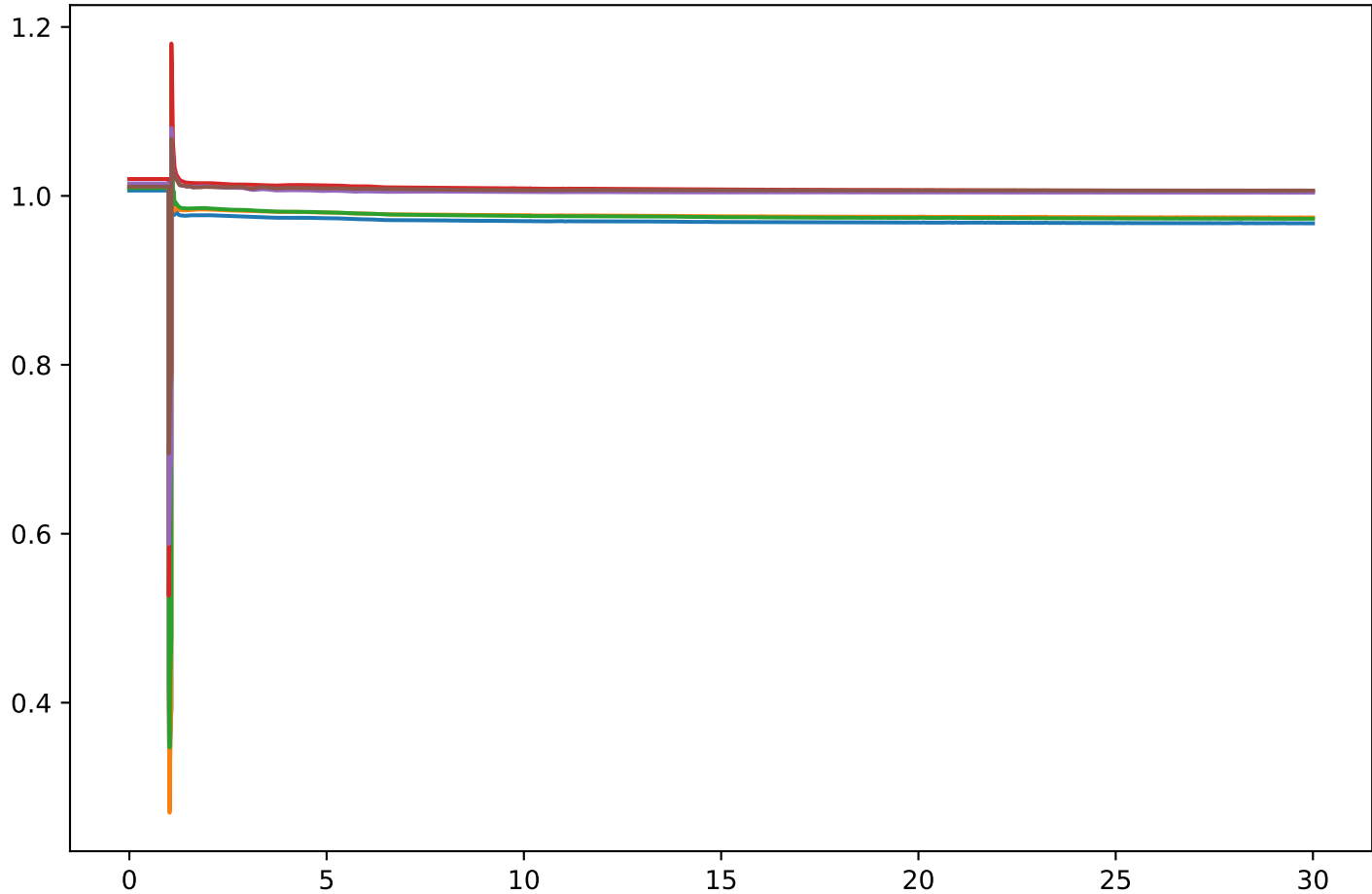
**2030 LLUVIOSA**

Caso: 1023-3-2030CA\_ModMax\_Lluv1-500kV - Contingencia: 6851-6852-1-C1\_4LT500

### Frecuencia (Hz)

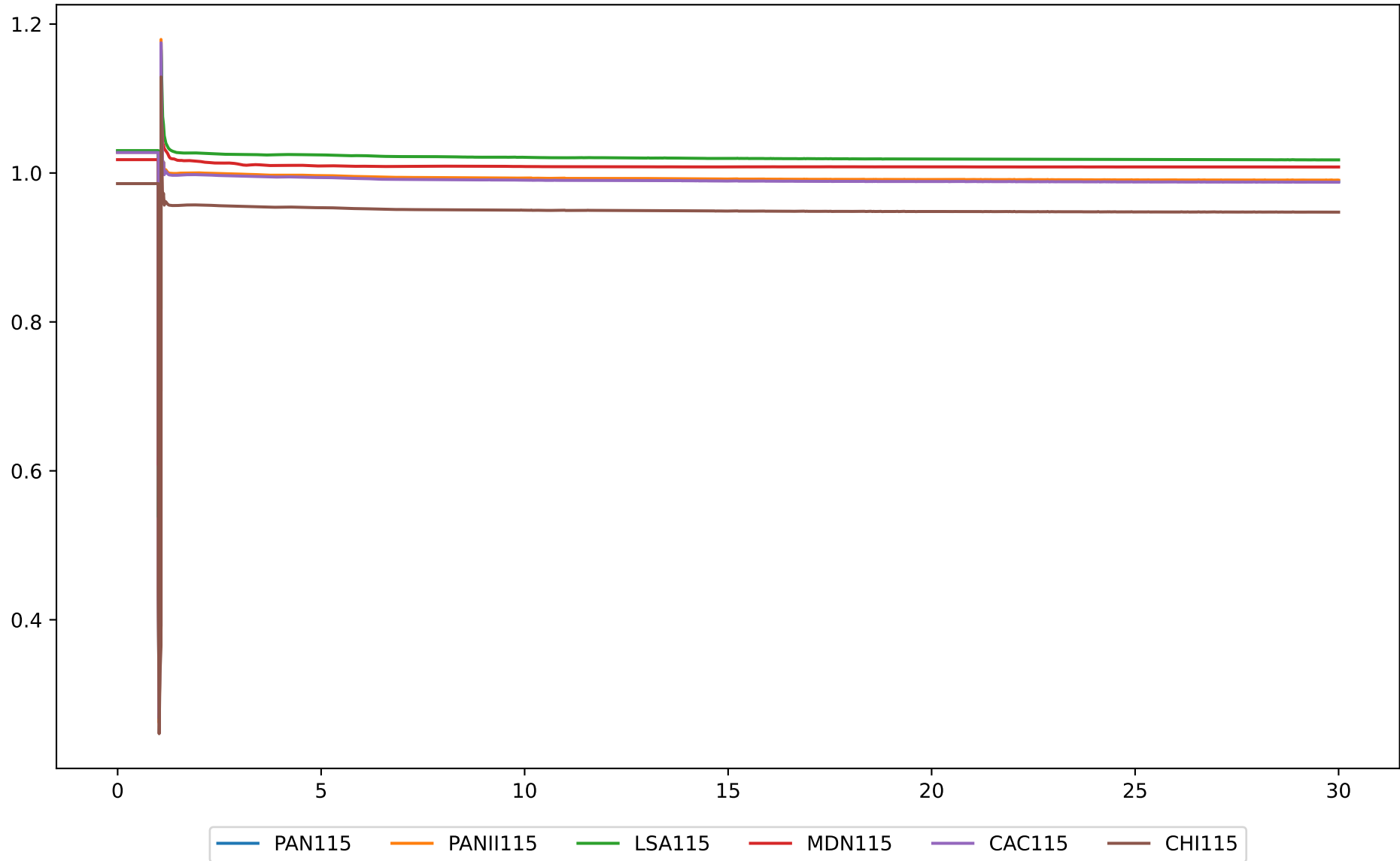


# Voltajes 230kV - Panama

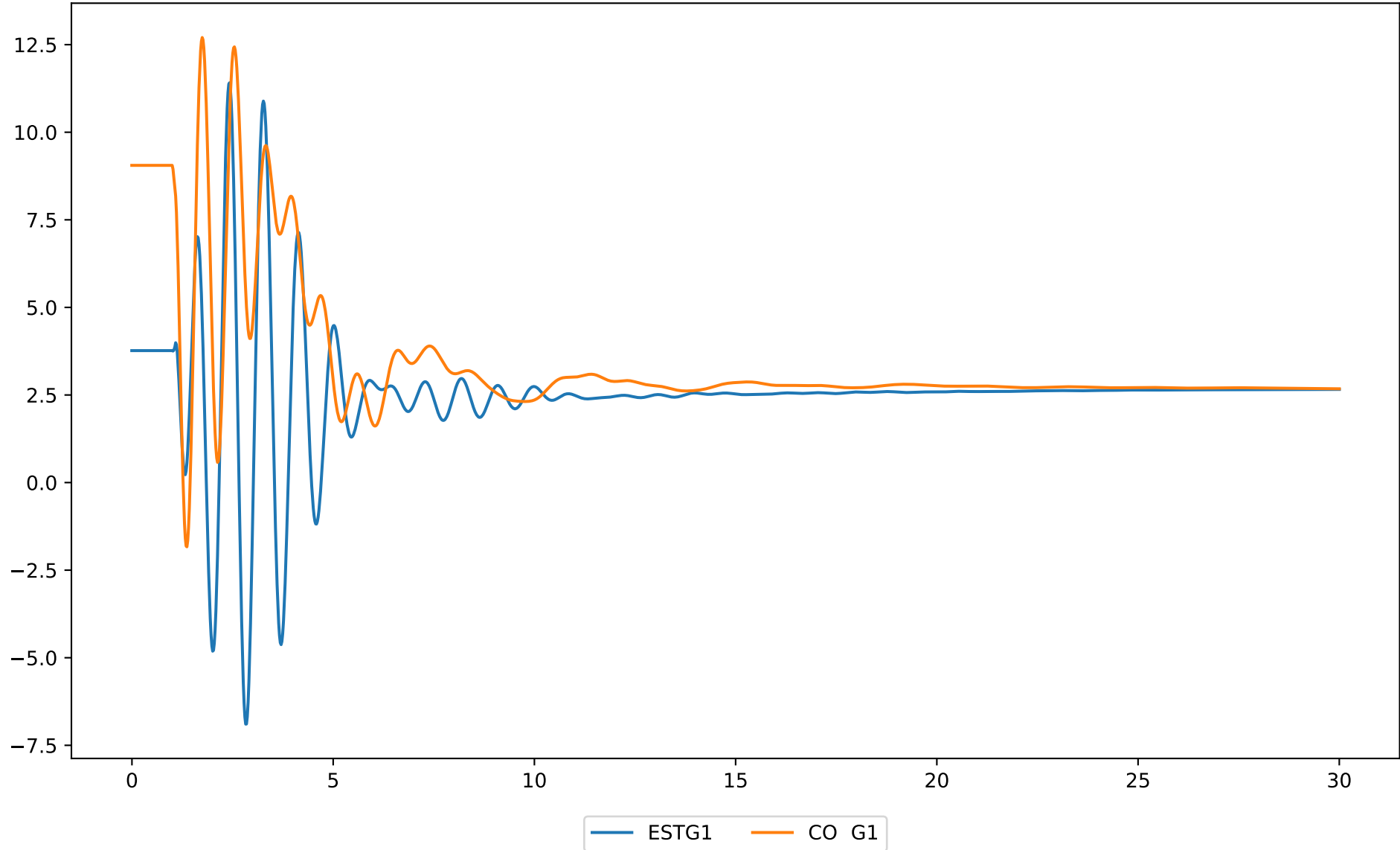


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama

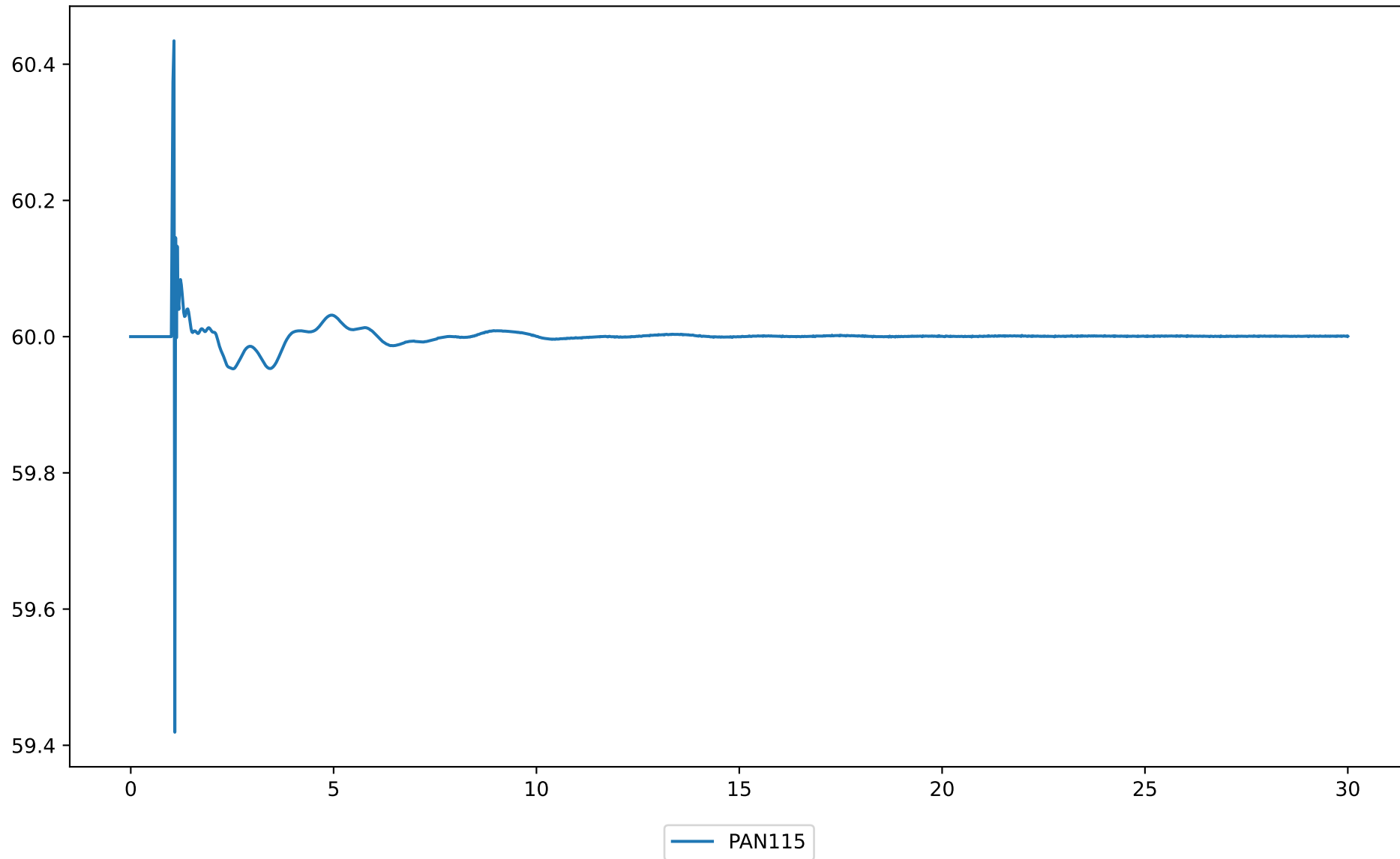


### Angulos de Rotacion de Maquinas - Panama

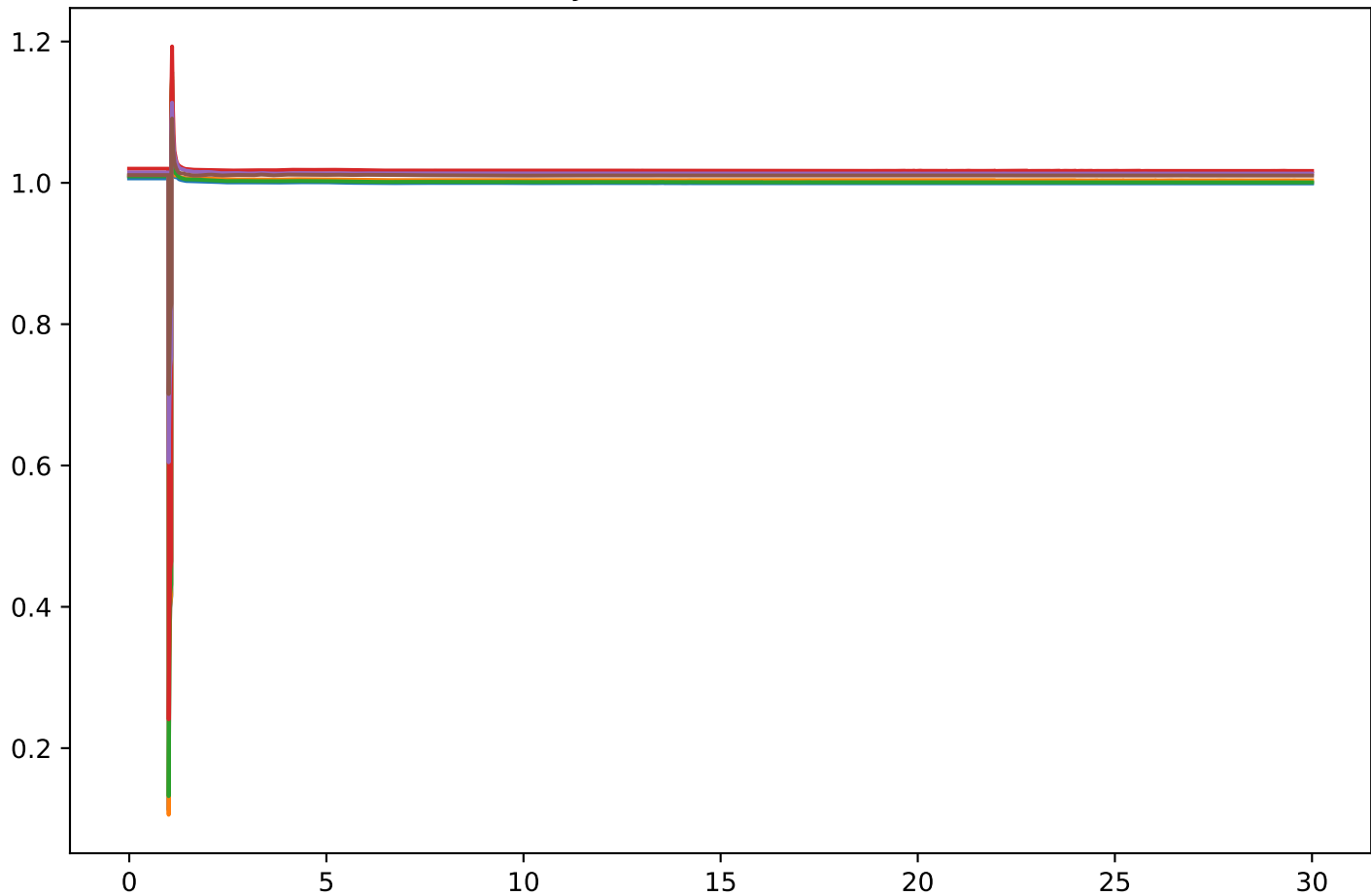


Caso: 1023-3-2030CA\_ModMax\_Lluv1-500kV - Contingencia: 6460-6713-2C-C2\_ECO-BUR

### Frecuencia (Hz)

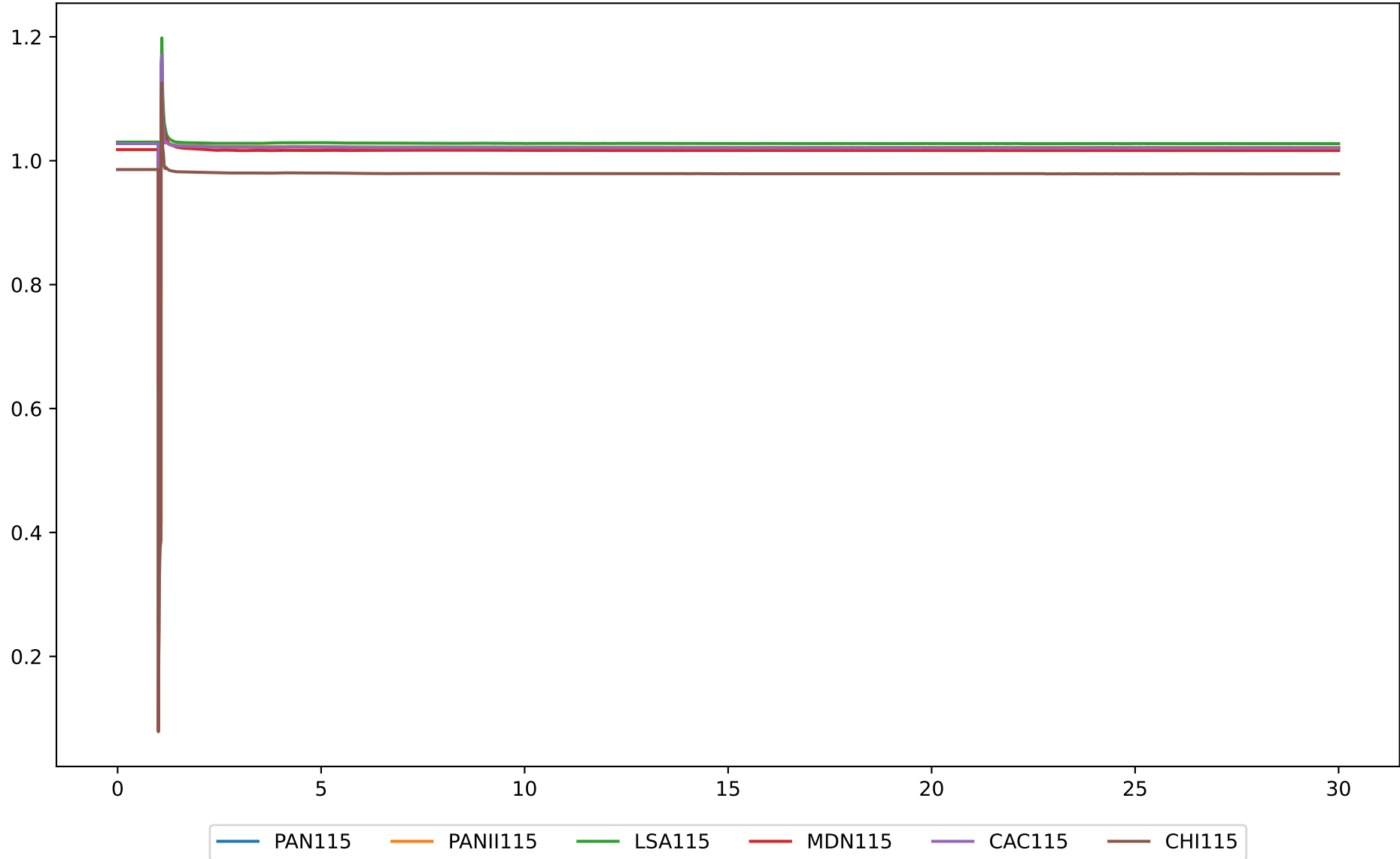


# Voltajes 230kV - Panama



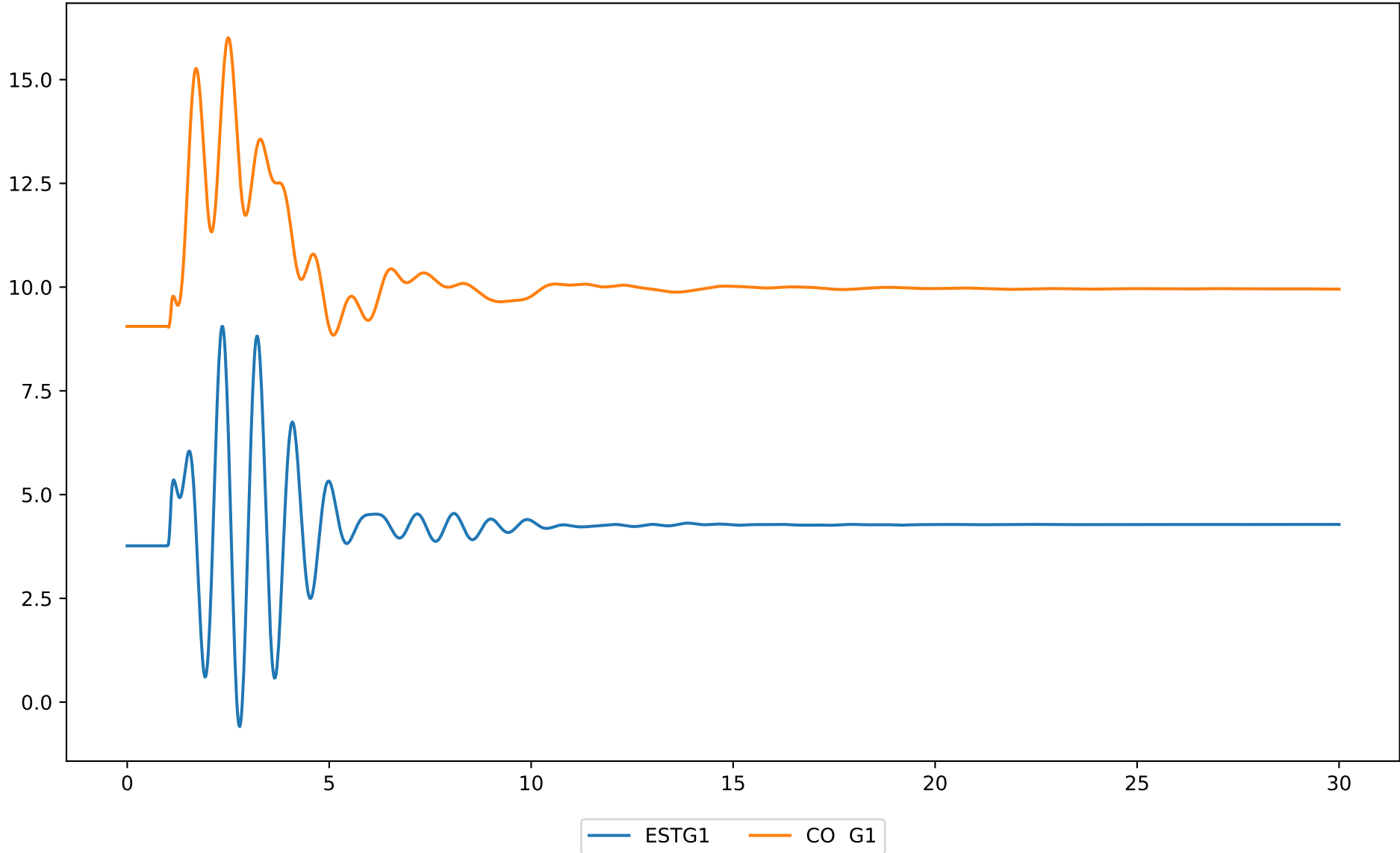
PAN230    PANII230    CHO230    LSA230    MDN230    PRO230

### Voltajes 115kV - Panama



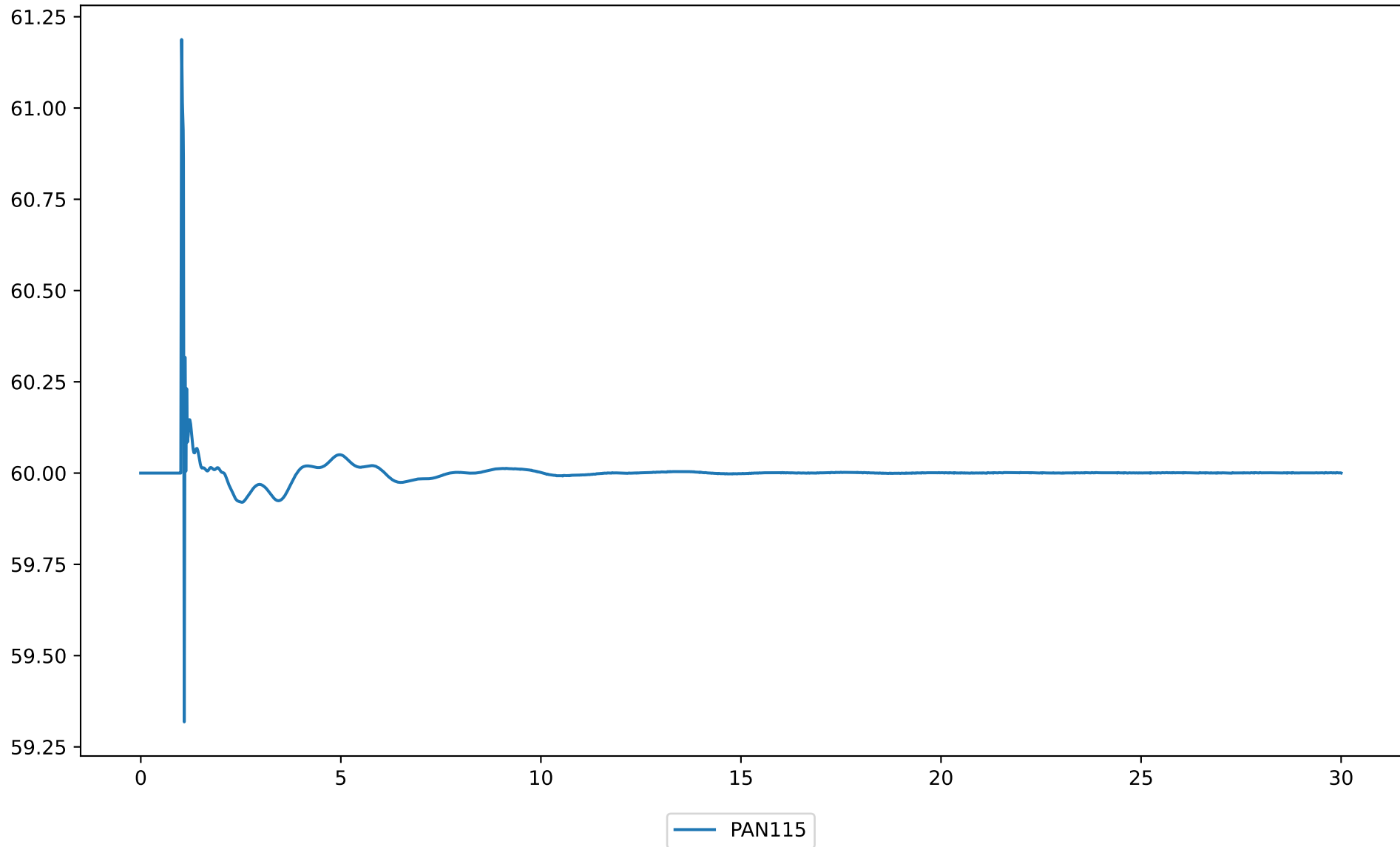


### Angulos de Rotacion de Maquinas - Panama

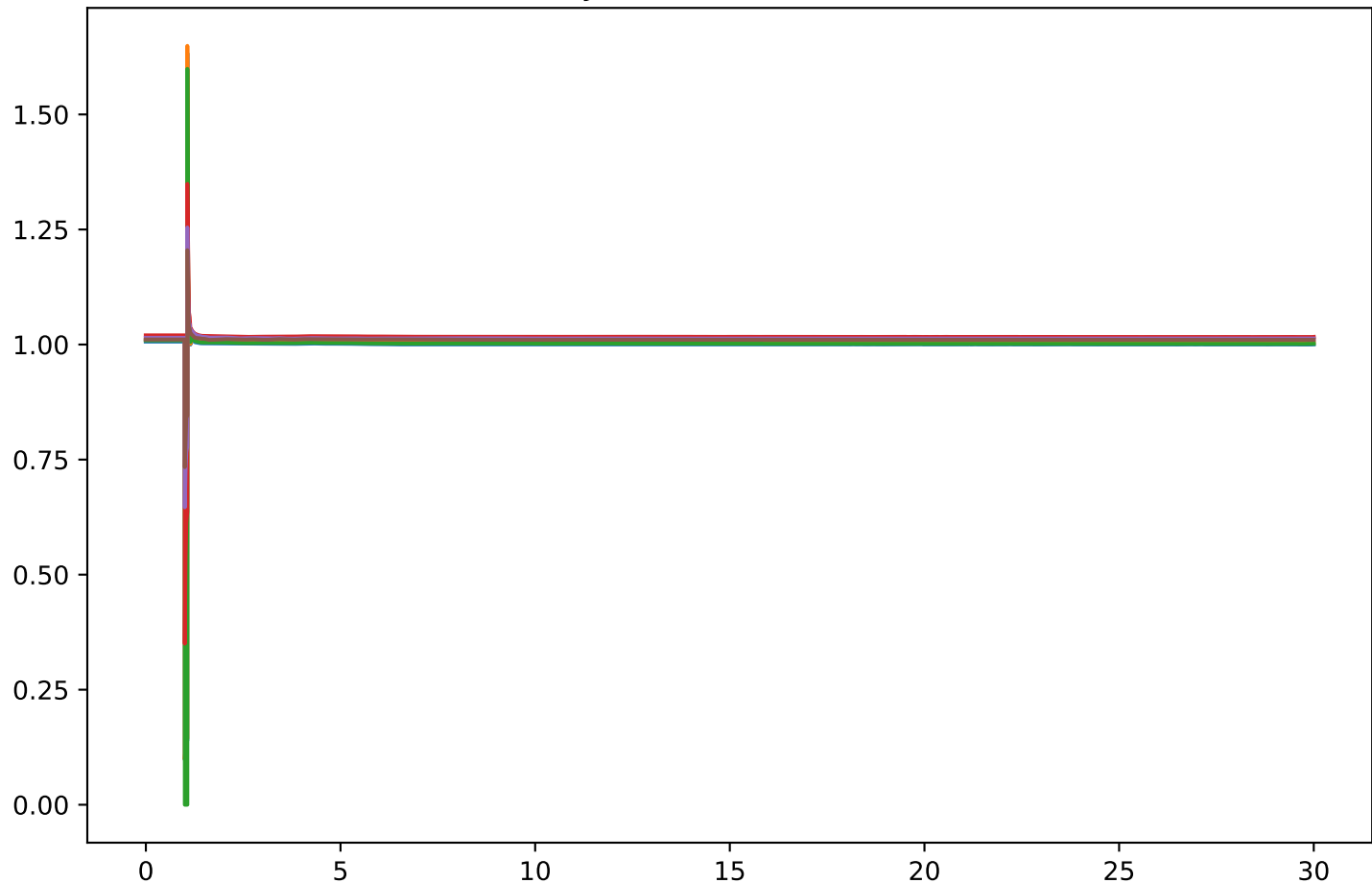


Caso: 1023-3-2030CA\_ModMax\_Lluv1-500kV - Contingencia: 6005-6830-9A-C3\_CHO-ANT

### Frecuencia (Hz)

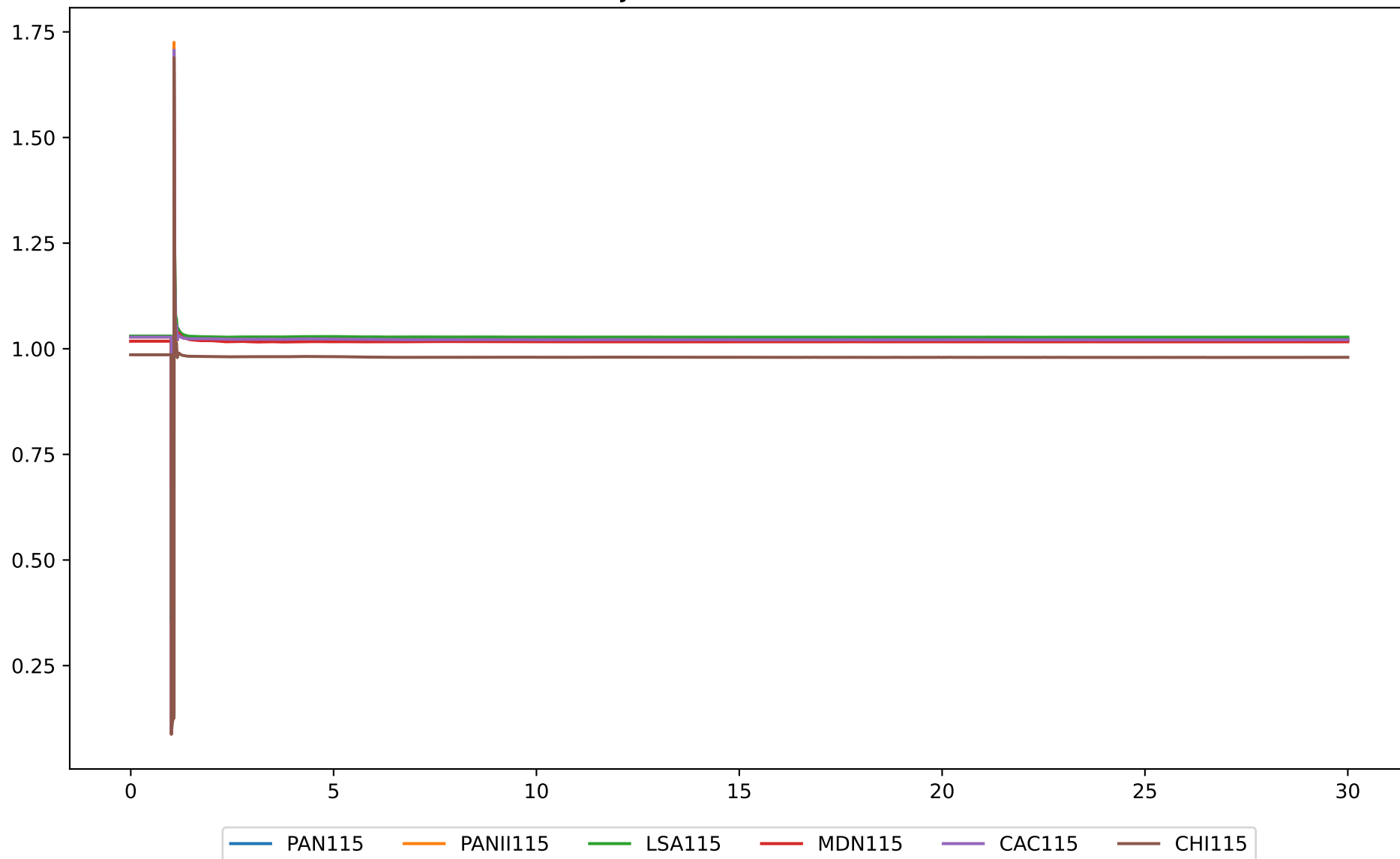


# Voltajes 230kV - Panama

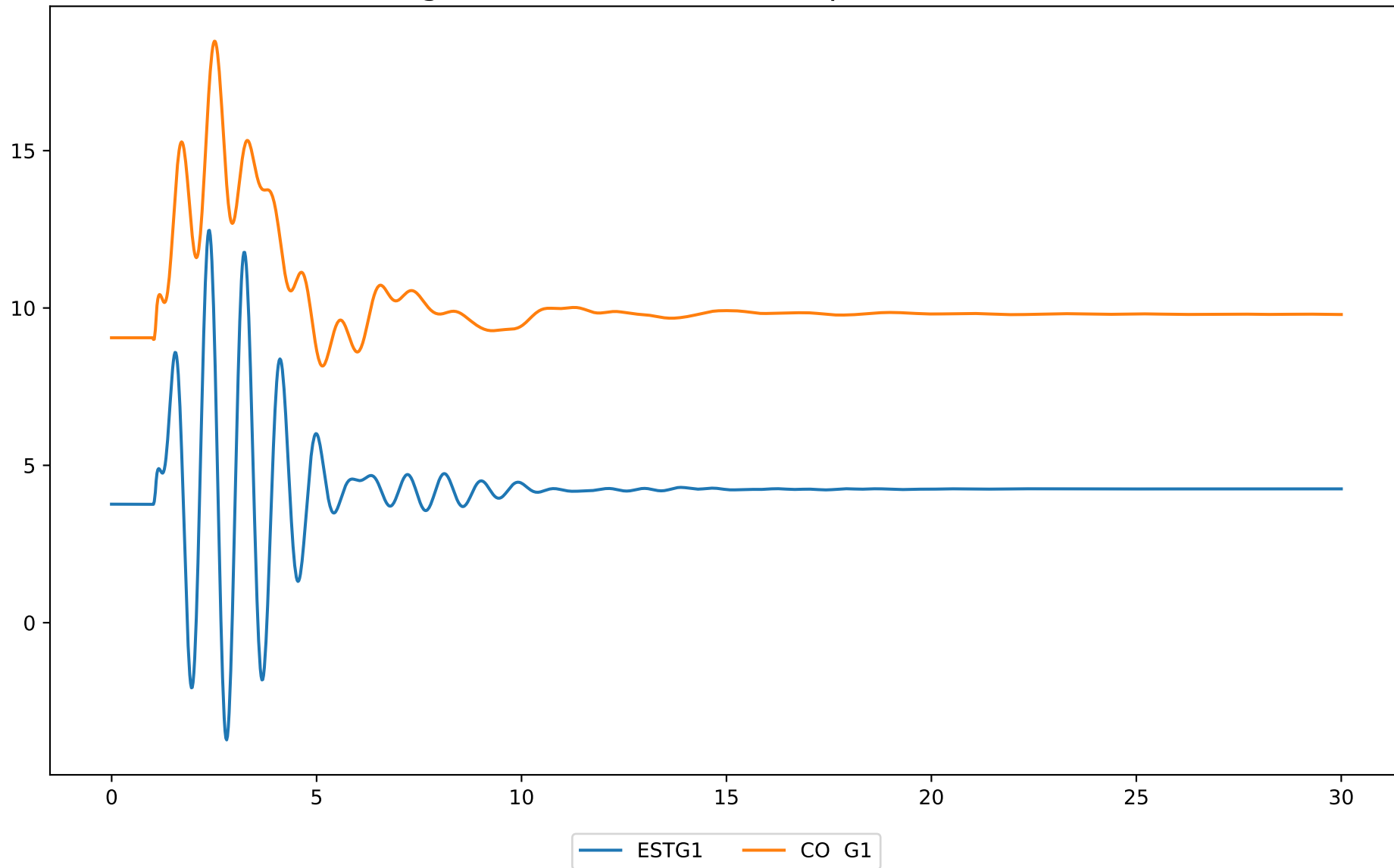


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

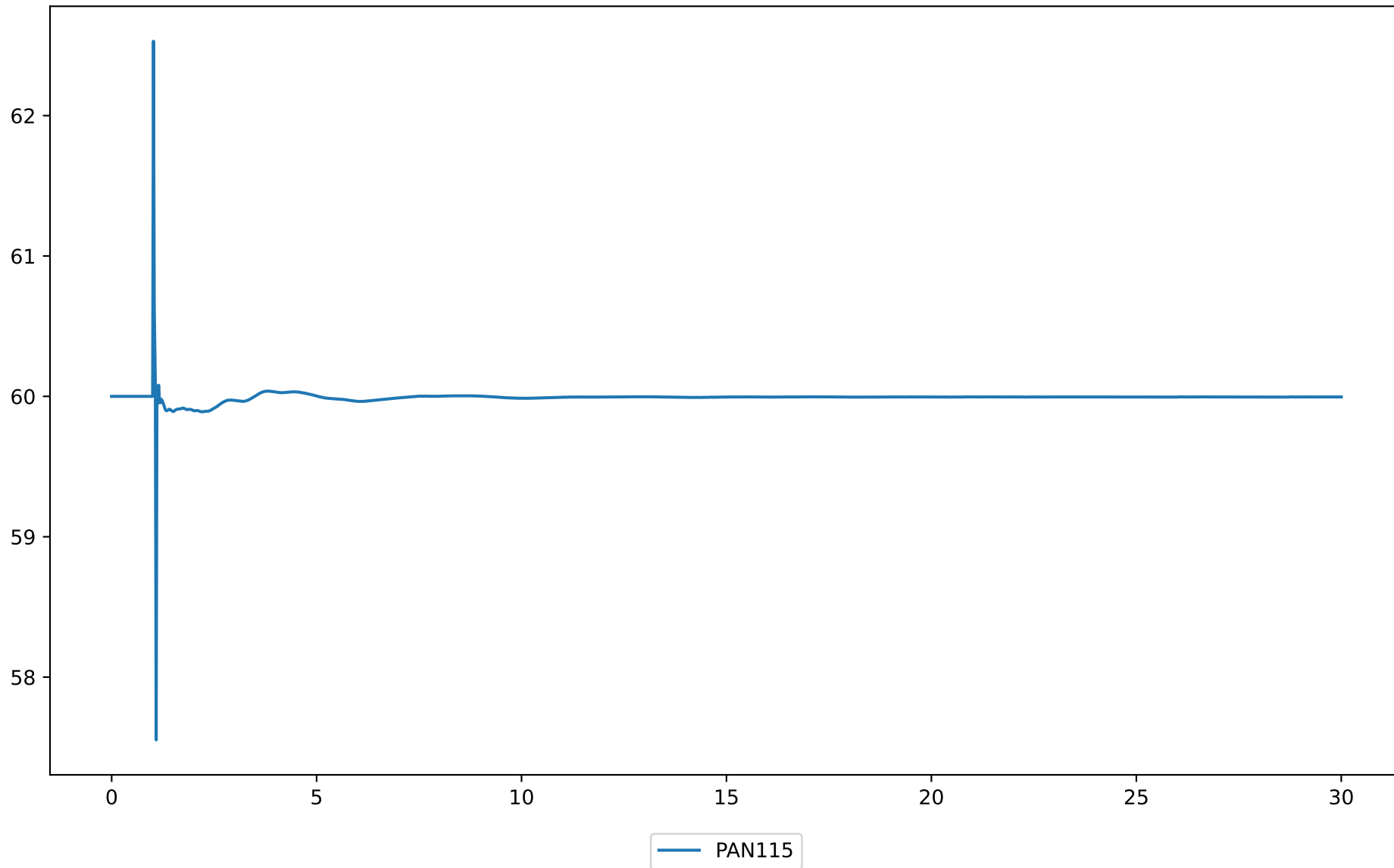
### Voltajes 115kV - Panama



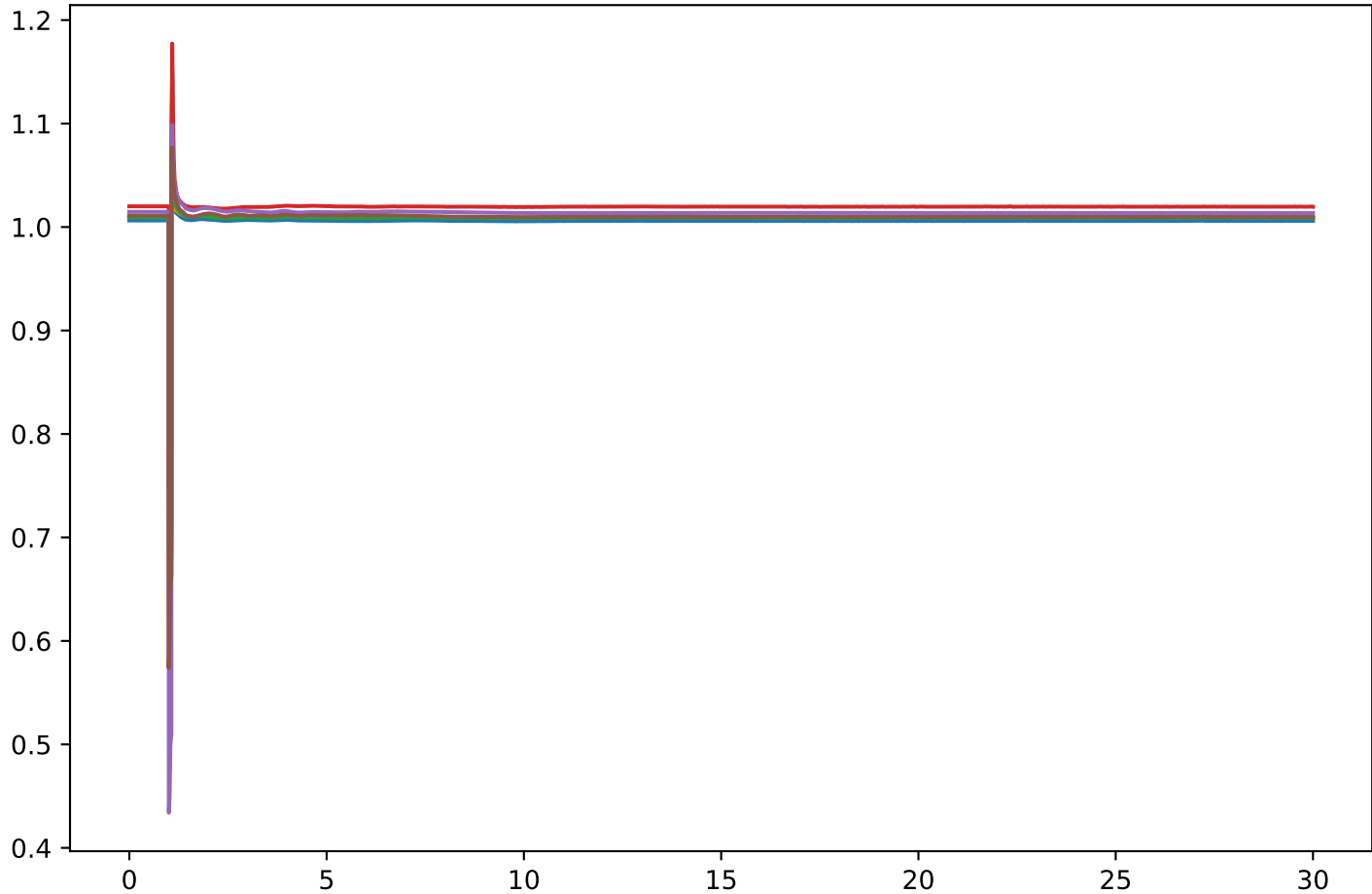
### Angulos de Rotacion de Maquinas - Panama



### Frecuencia (Hz)

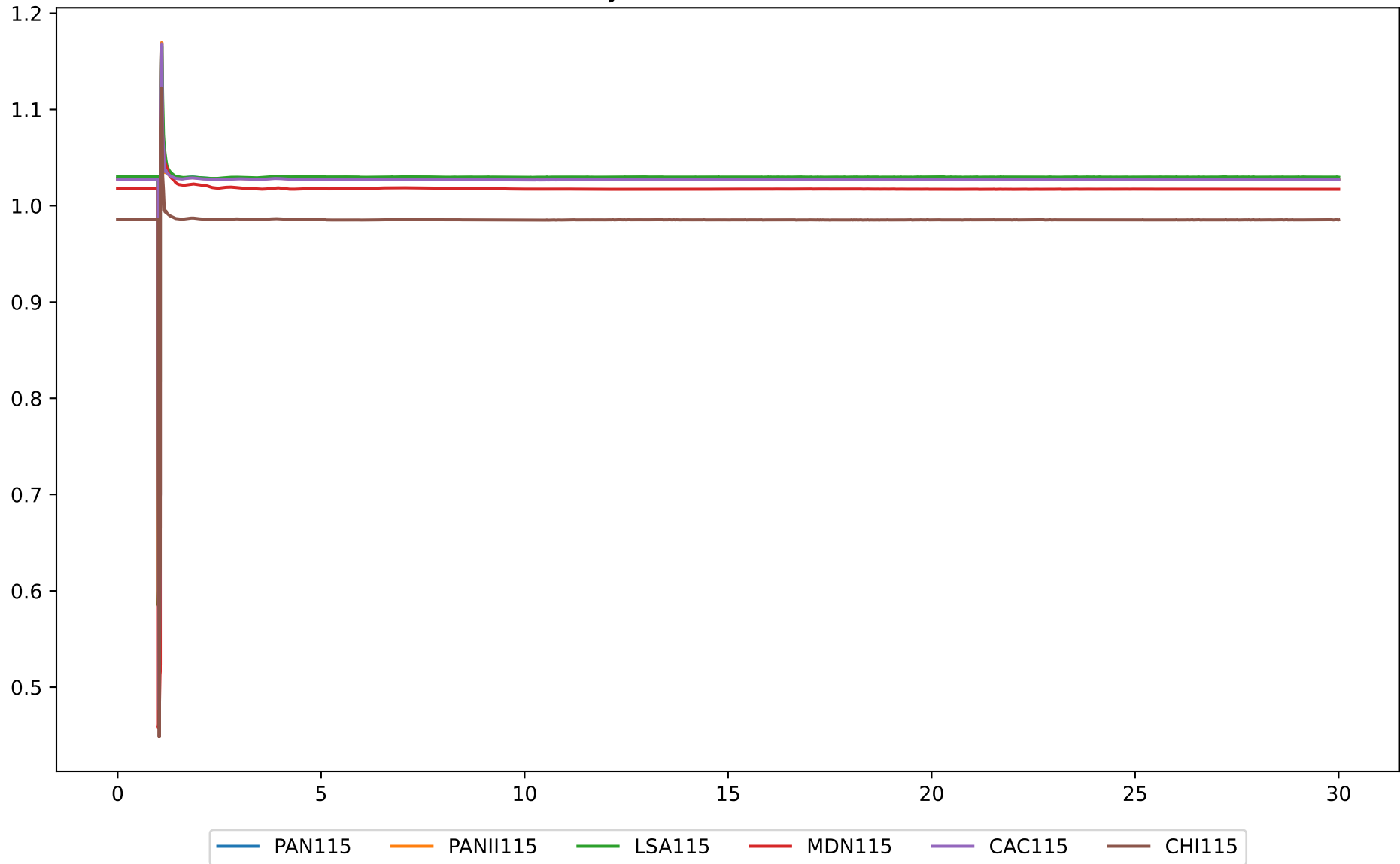


# Voltajes 230kV - Panama



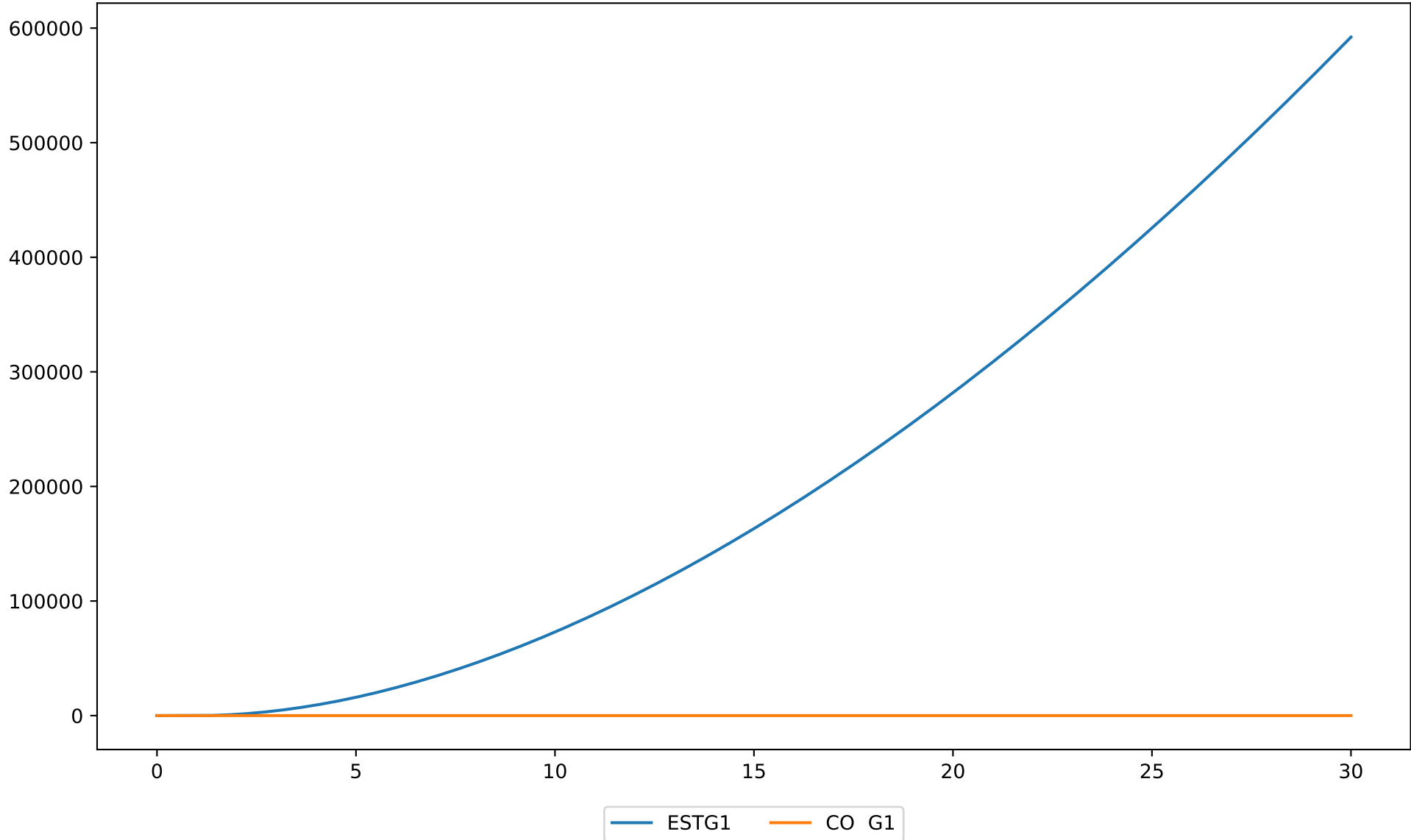
PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama



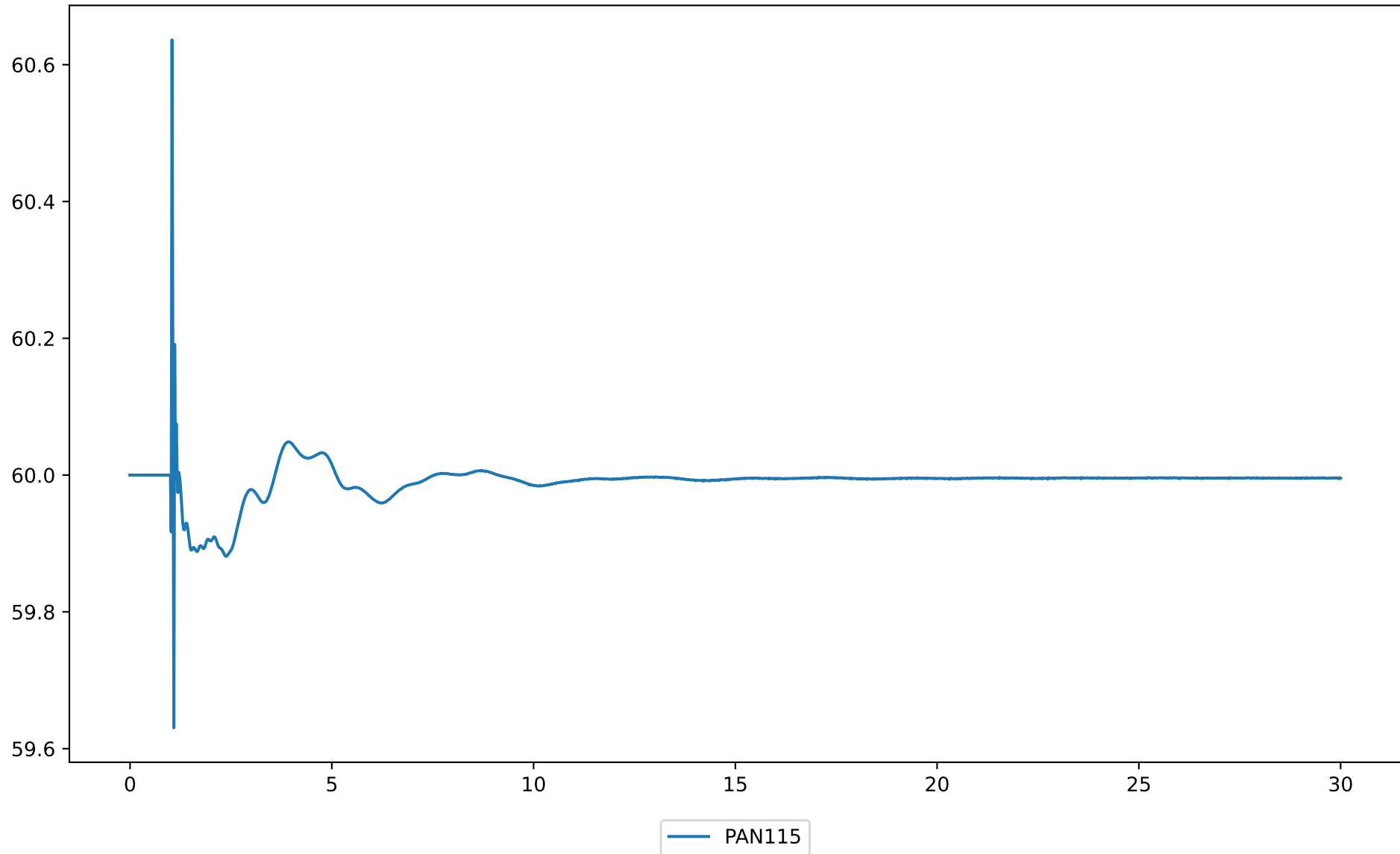


### Angulos de Rotacion de Maquinas - Panama

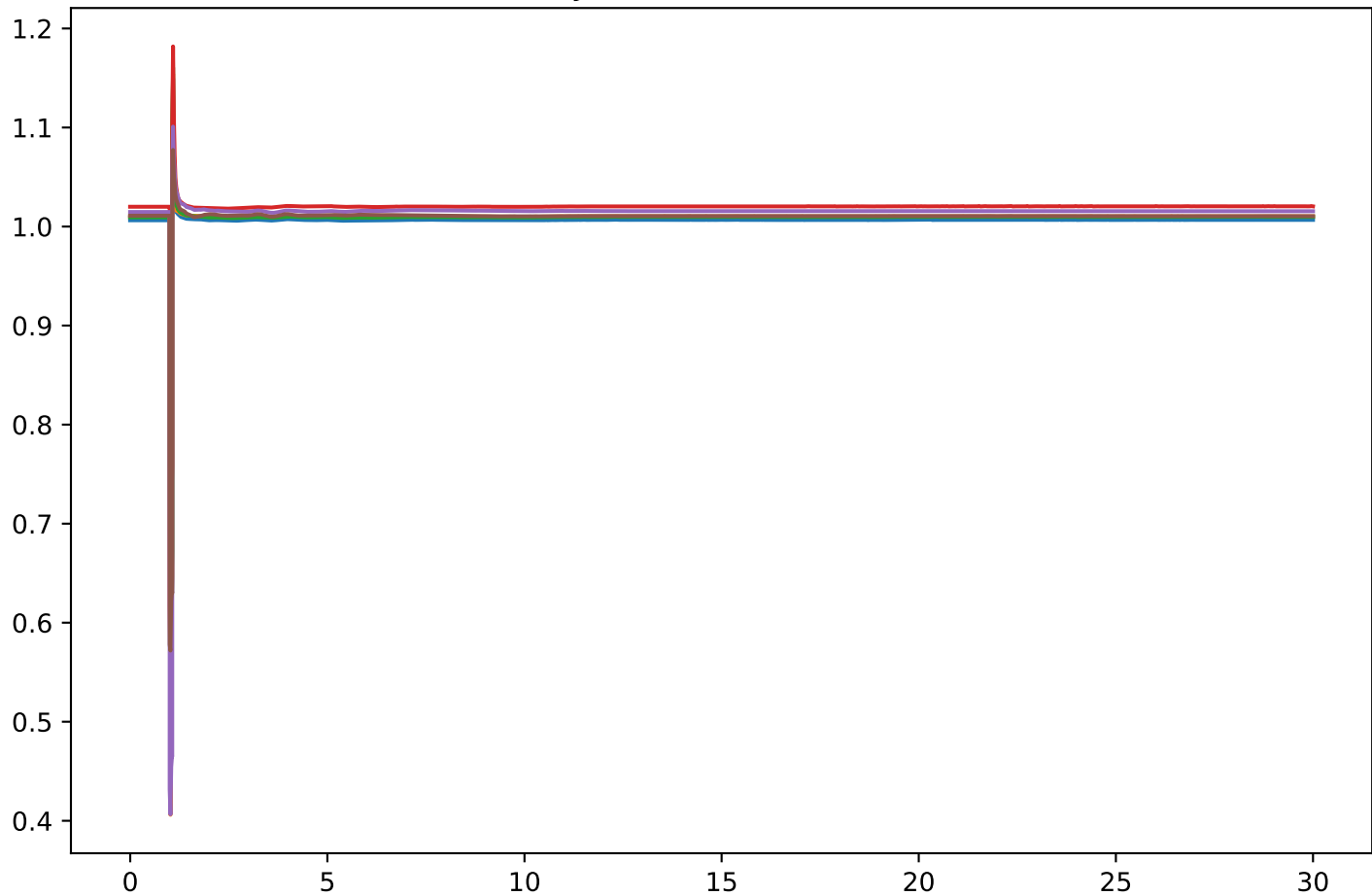


Caso: 1023-3-2030CA\_ModMax\_Lluv1-500kV - Contingencia: 6179-6360-22-C5\_GUA-GLA

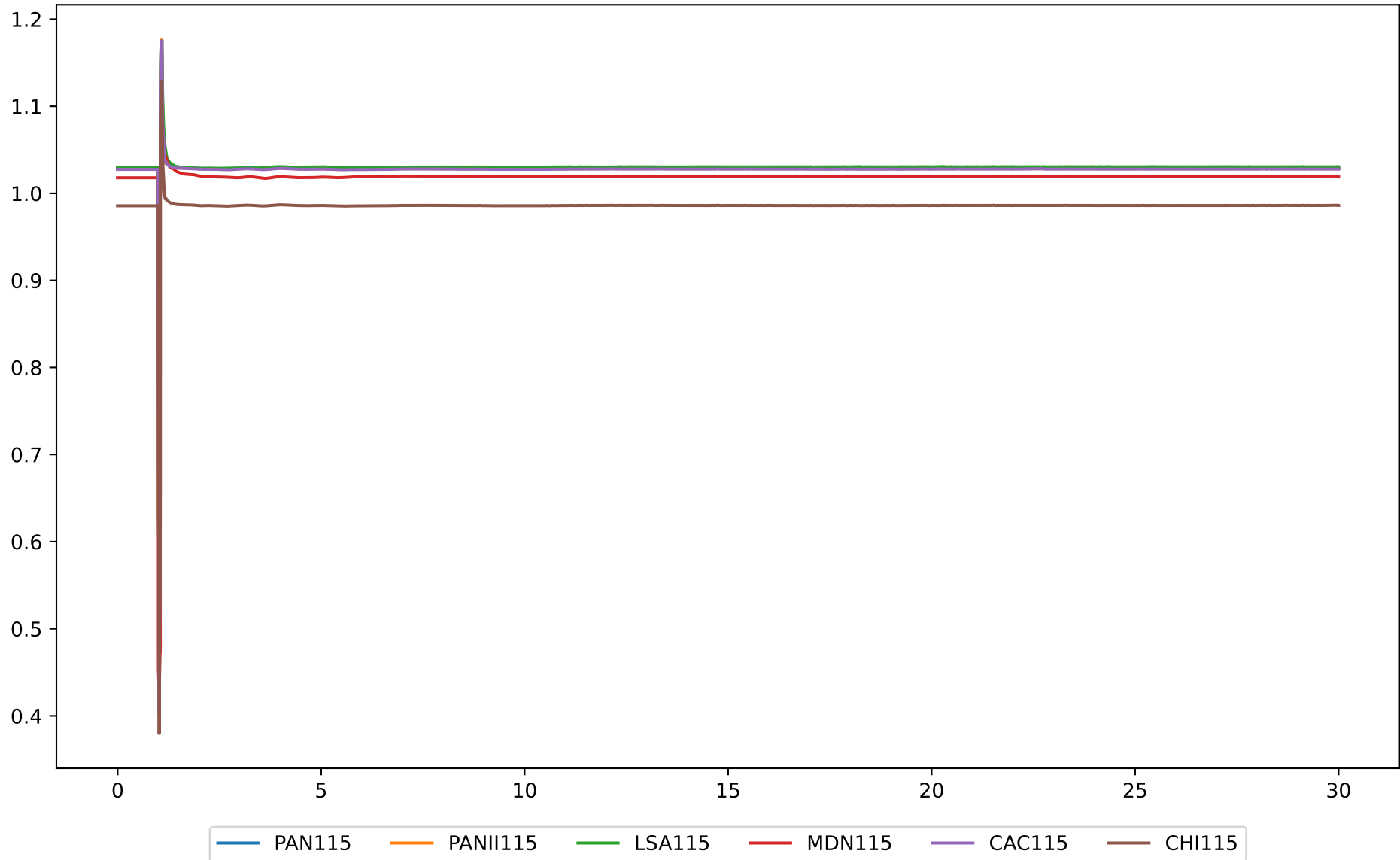
### Frecuencia (Hz)



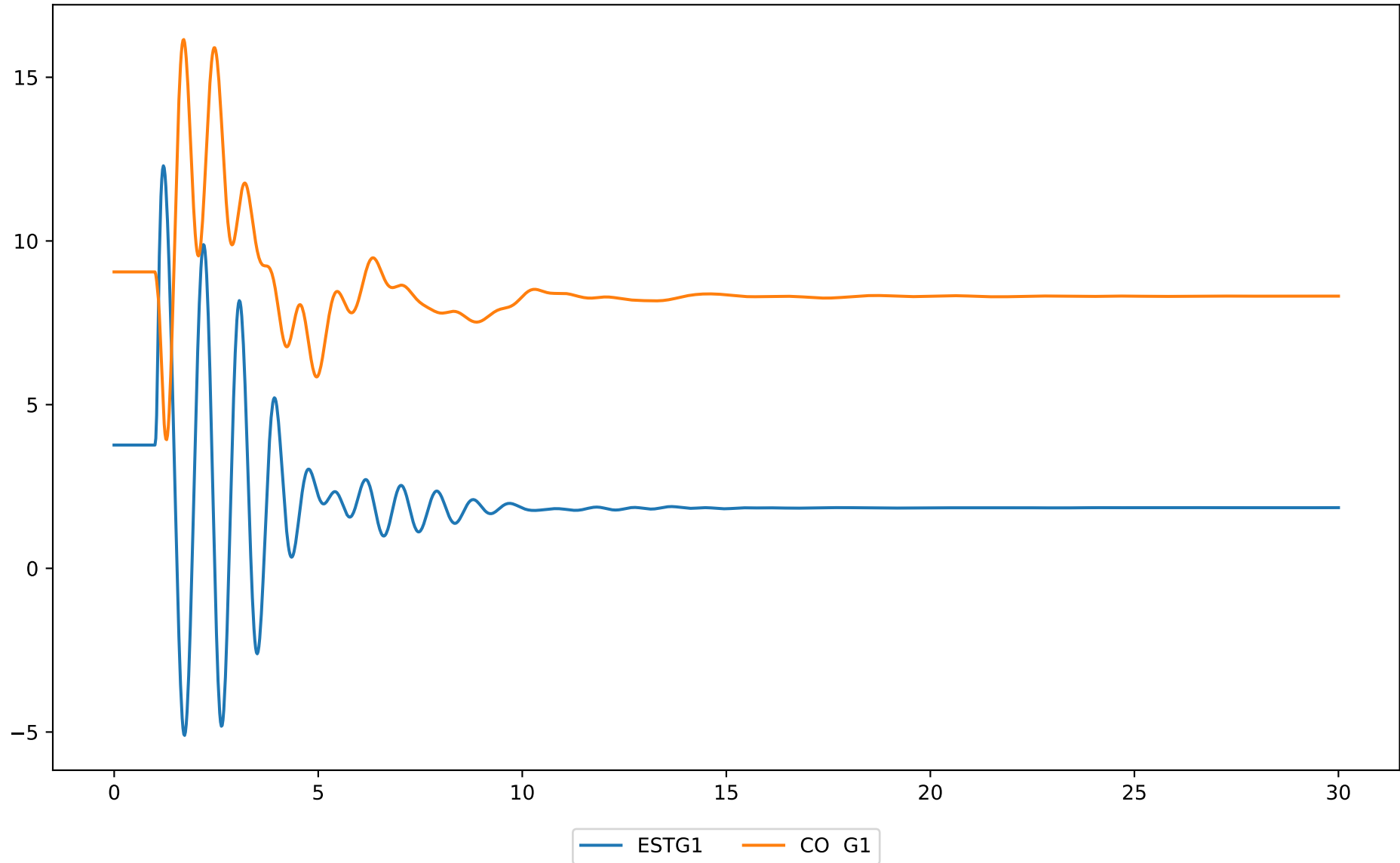
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

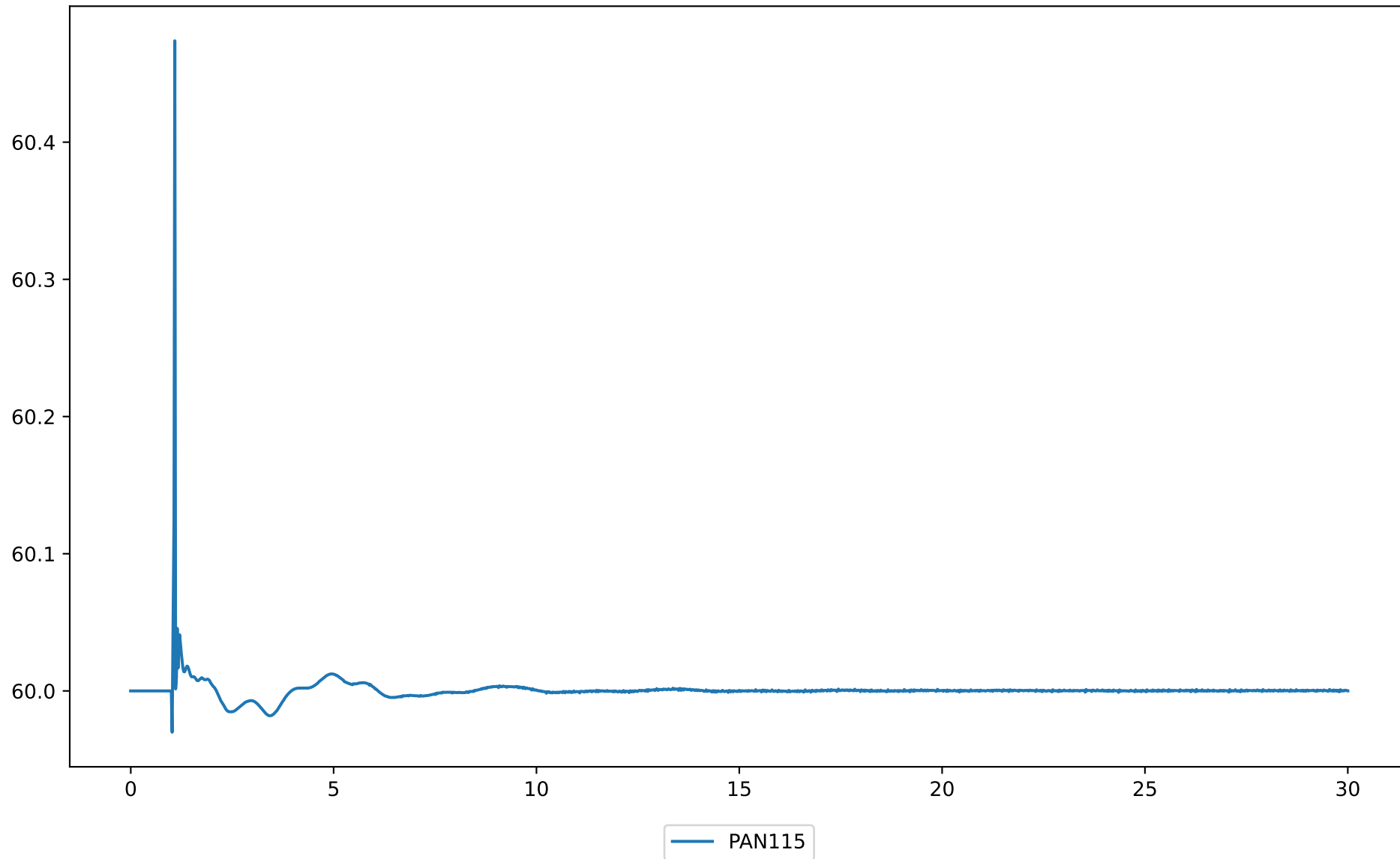


### Angulos de Rotacion de Maquinas - Panama

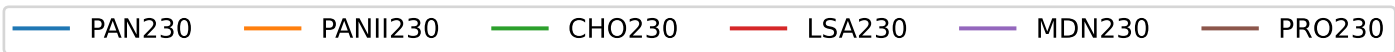
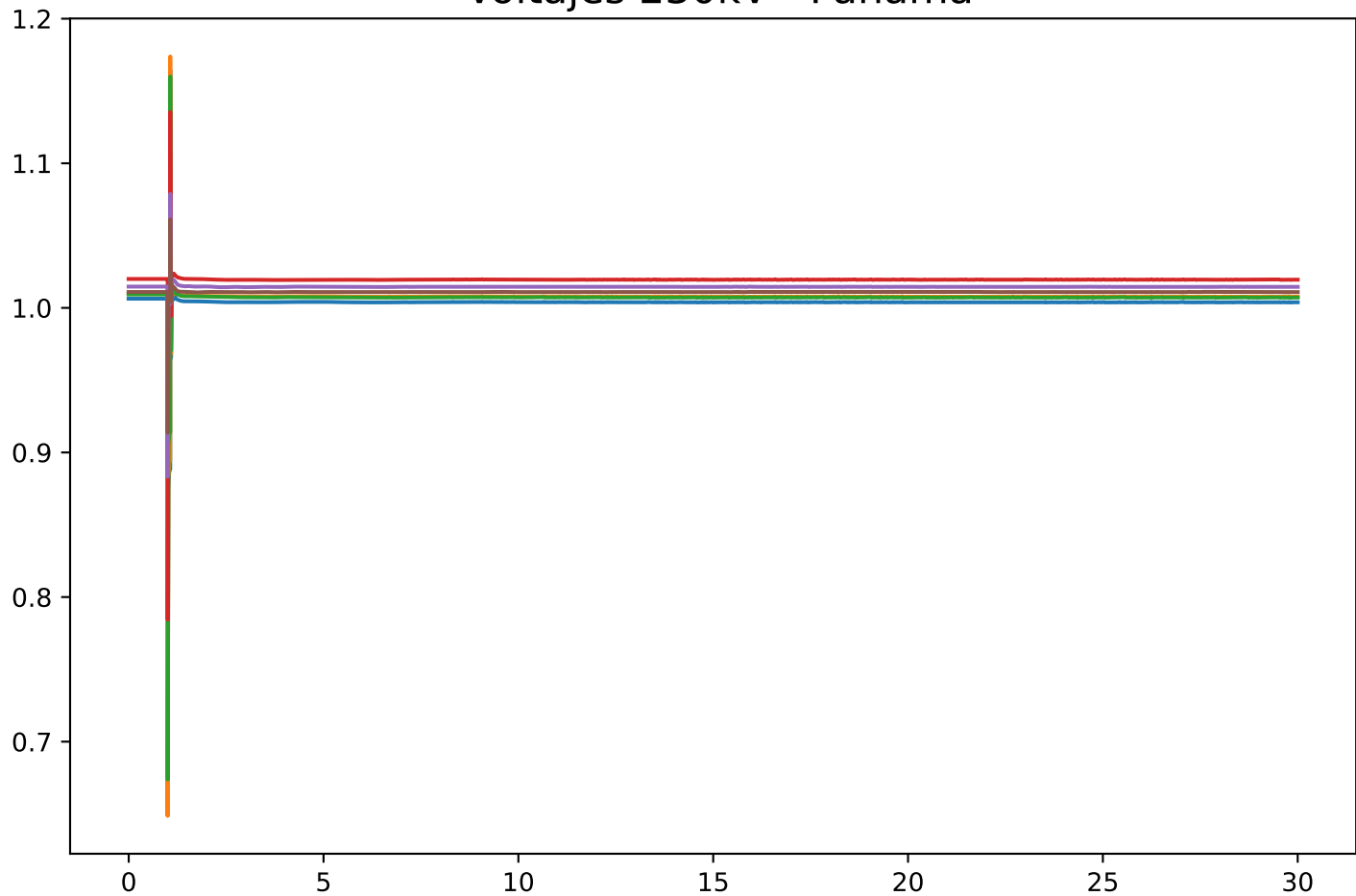


Caso: 1023-3-2030CA\_ModMax\_Lluv1-500kV - Contingencia: 6820-6823-1-C9\_STC-PAN3

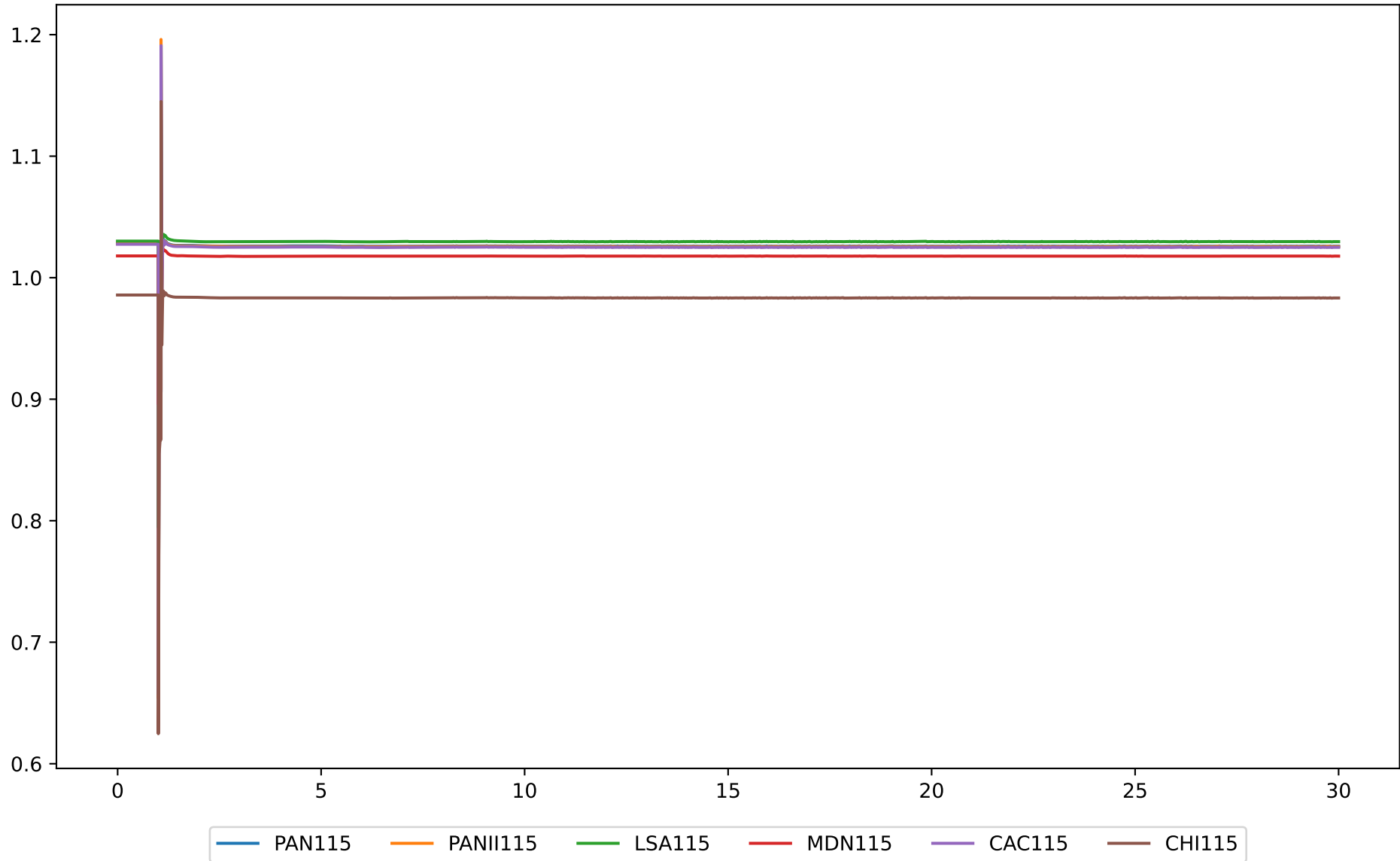
### Frecuencia (Hz)



# Voltajes 230kV - Panama

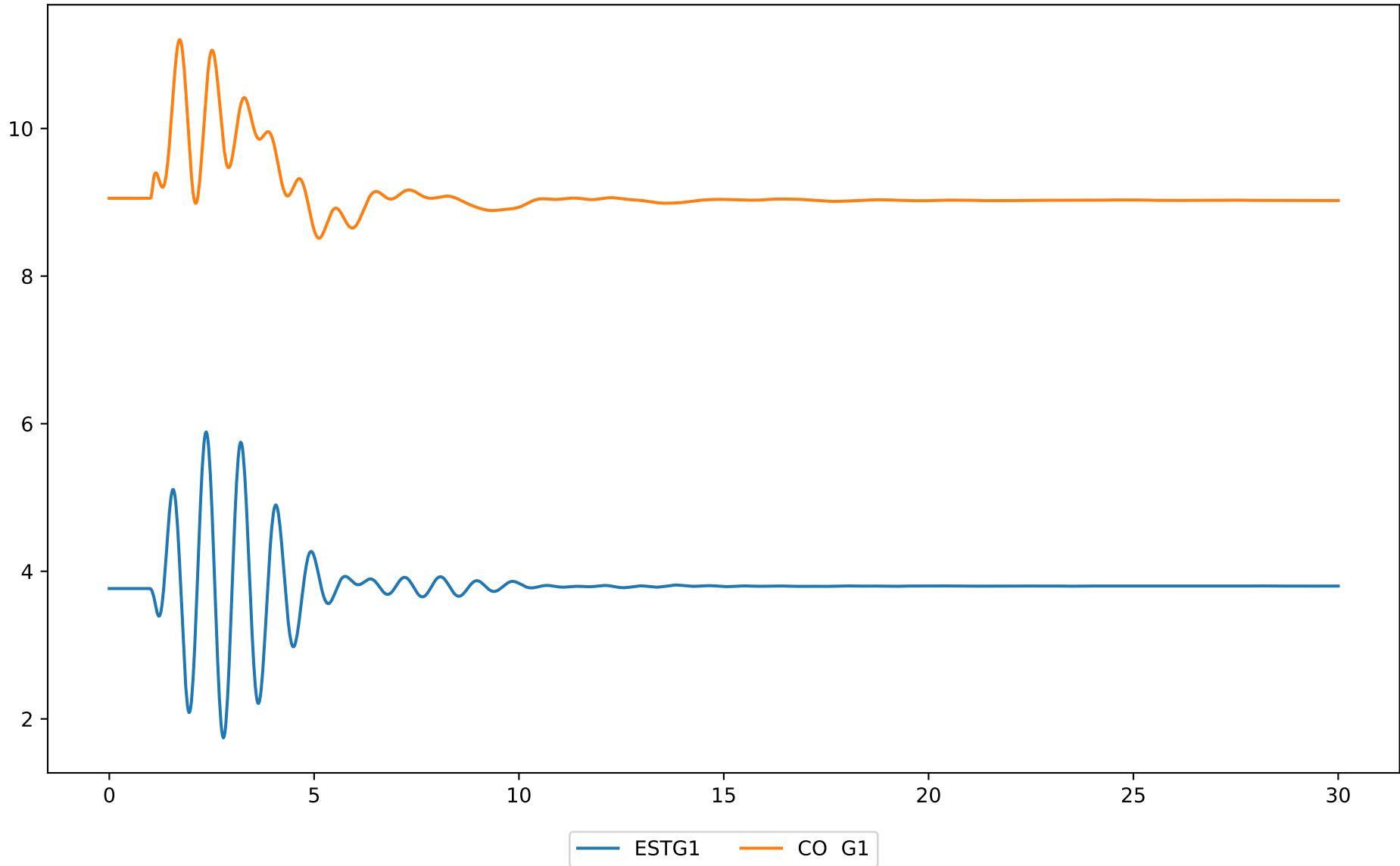


### Voltajes 115kV - Panama



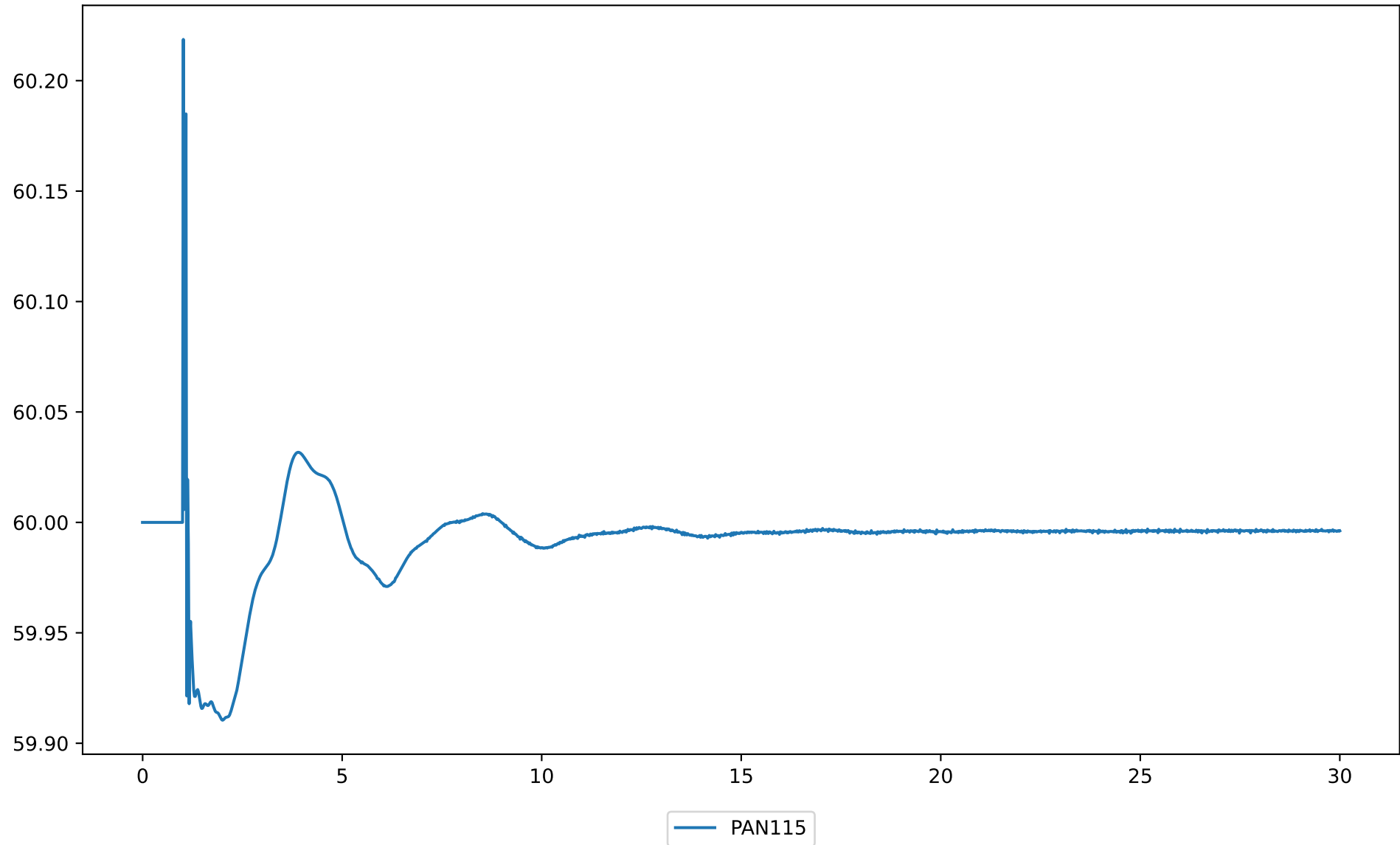


### Angulos de Rotacion de Maquinas - Panama

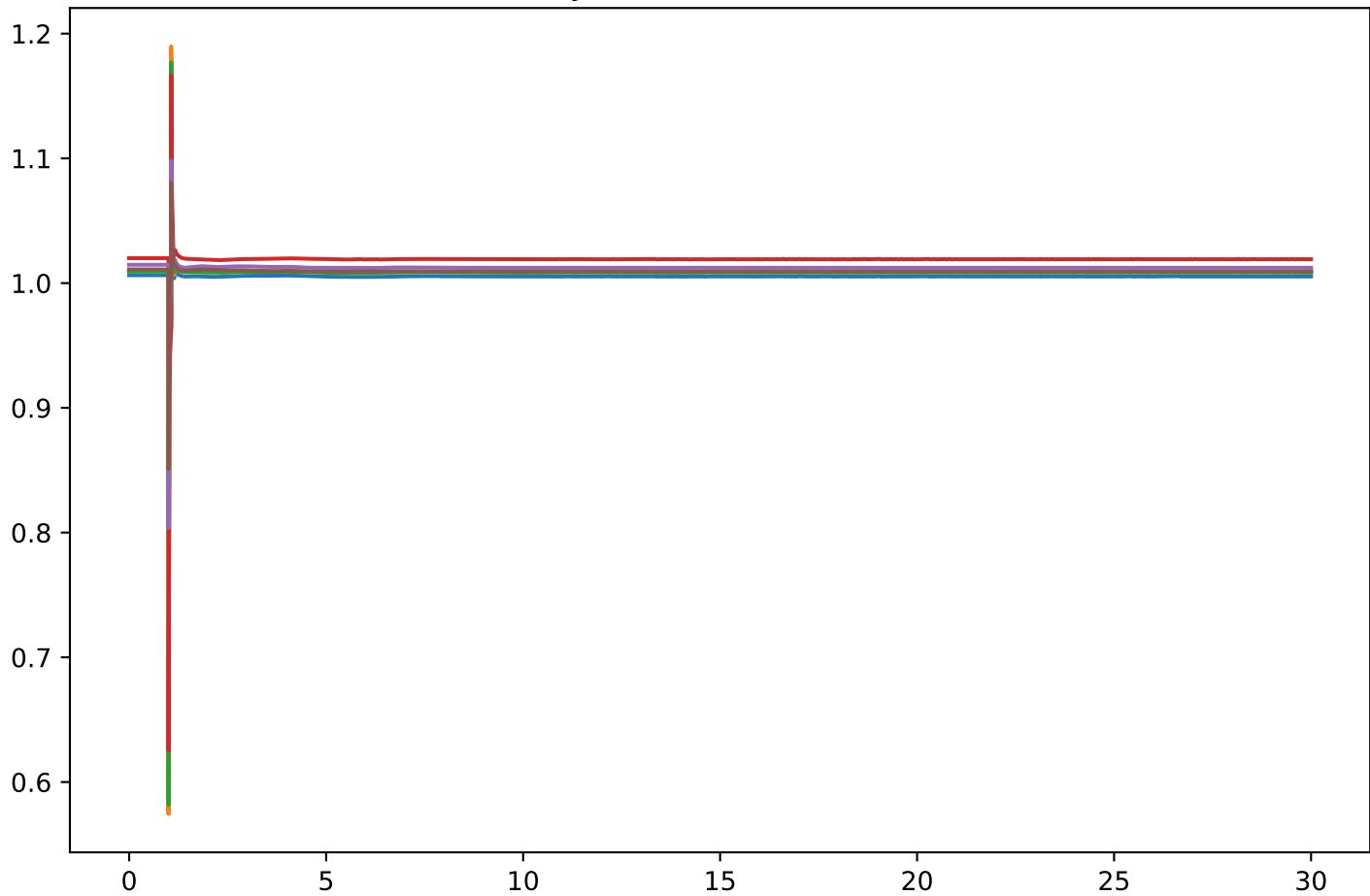


Caso: 1023-3-2030CA\_ModMax\_Lluv1-500kV - Contingencia: 6207-6460-T1-C6\_ECO-CSO1

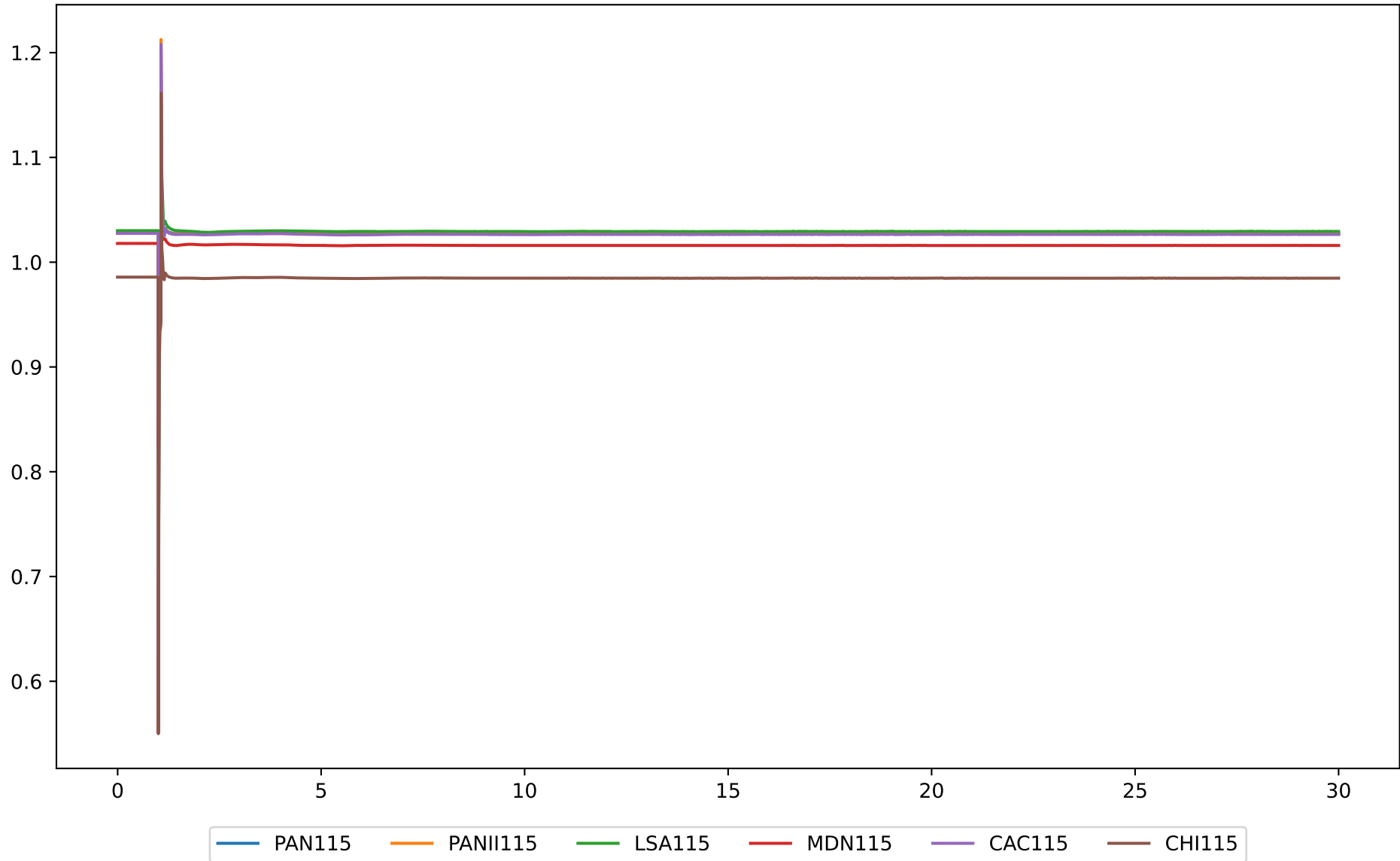
### Frecuencia (Hz)



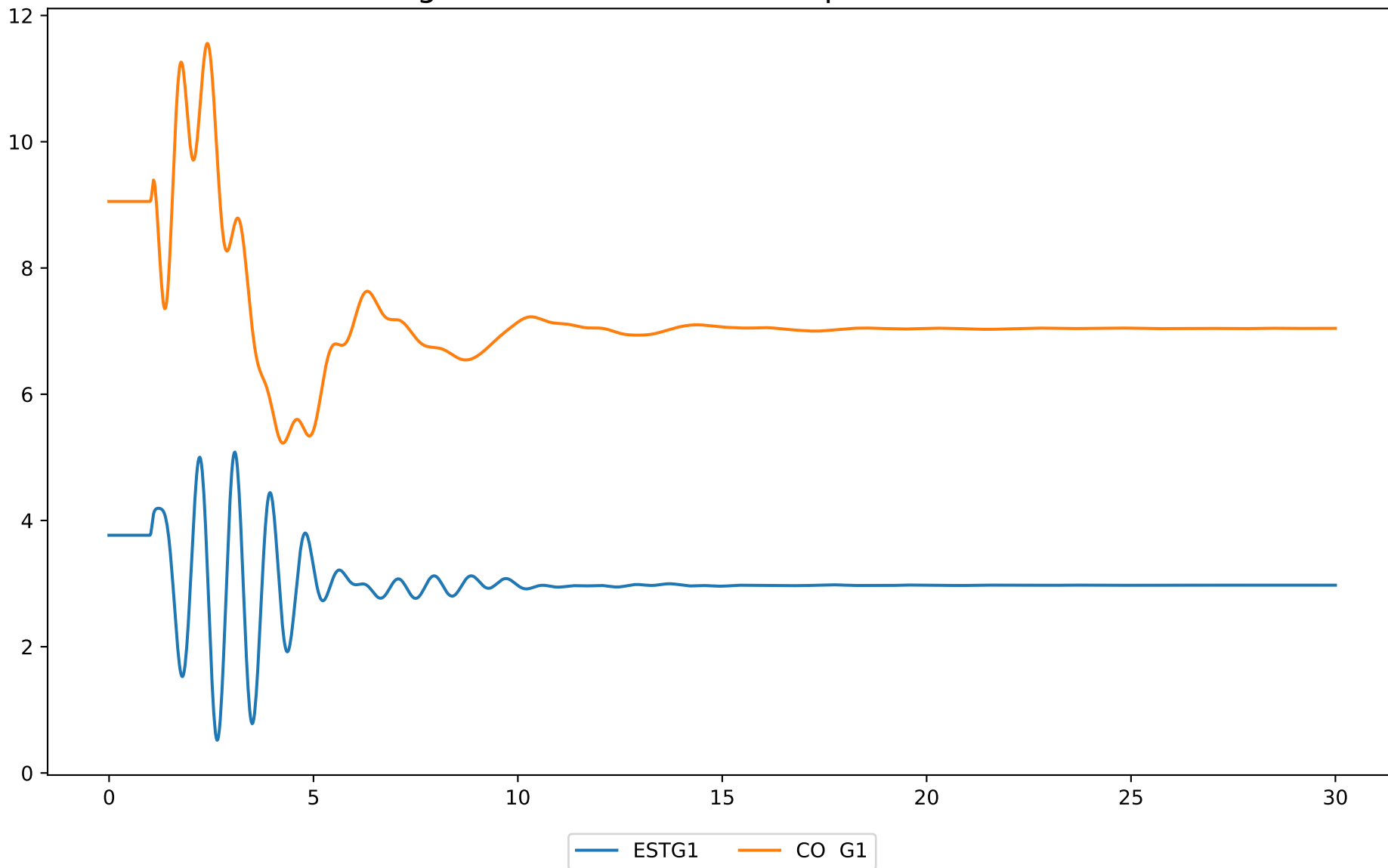
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

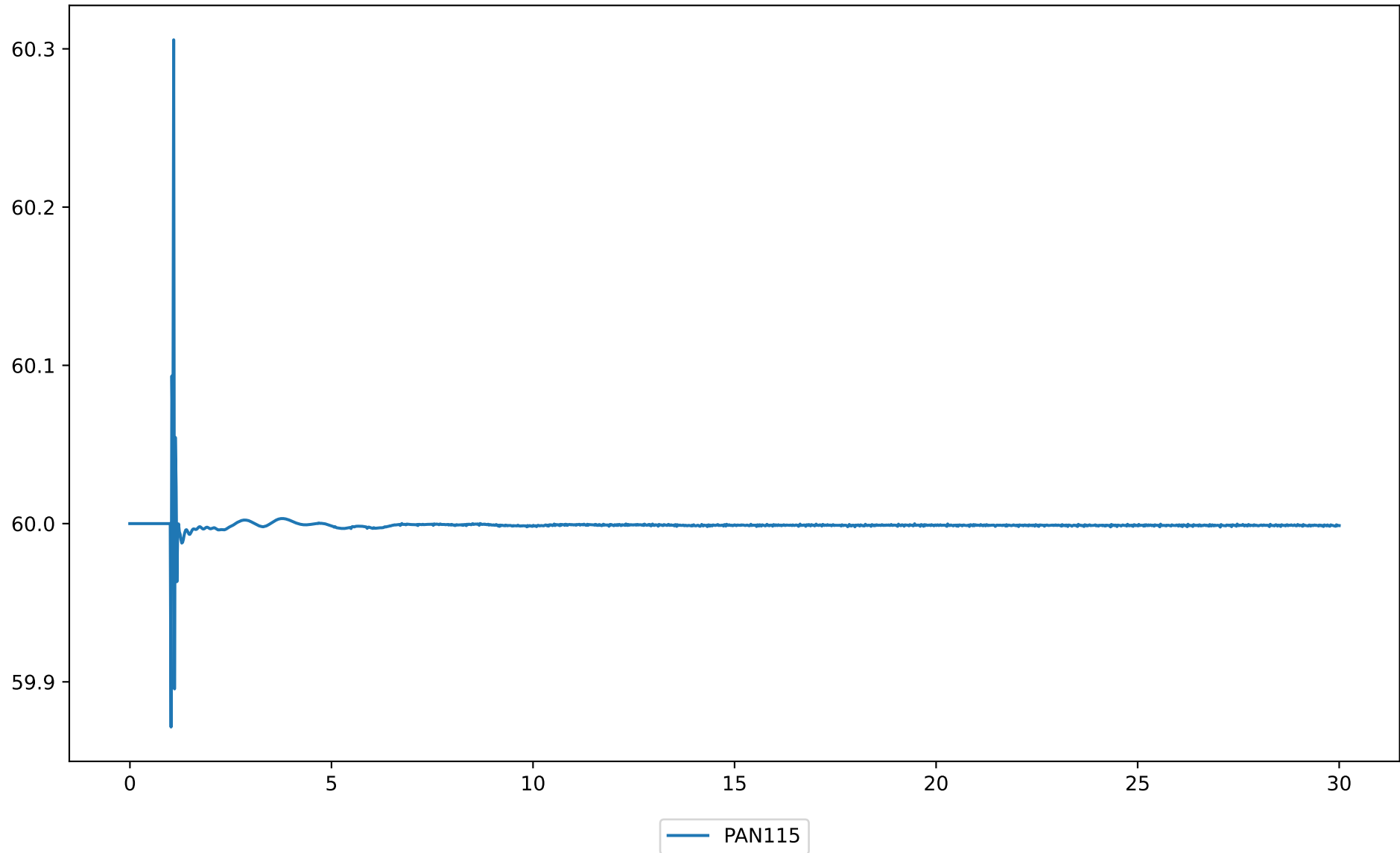


### Angulos de Rotacion de Maquinas - Panama

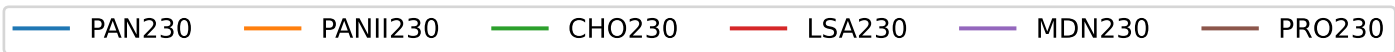
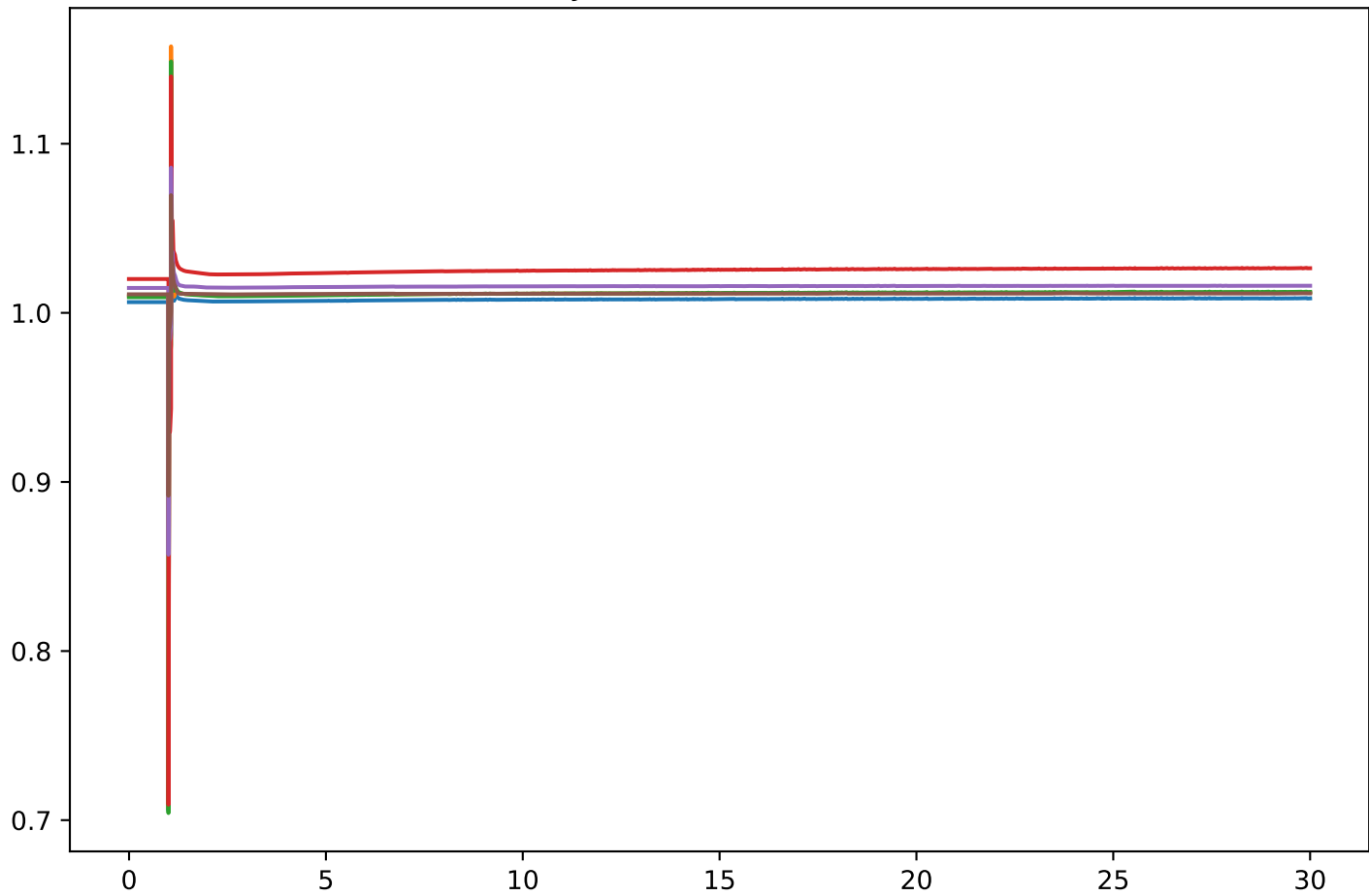


Caso: 1023-3-2030CA\_ModMax\_Lluv1-500kV - Contingencia: 6812-6811-T4-C7\_STC-LSA

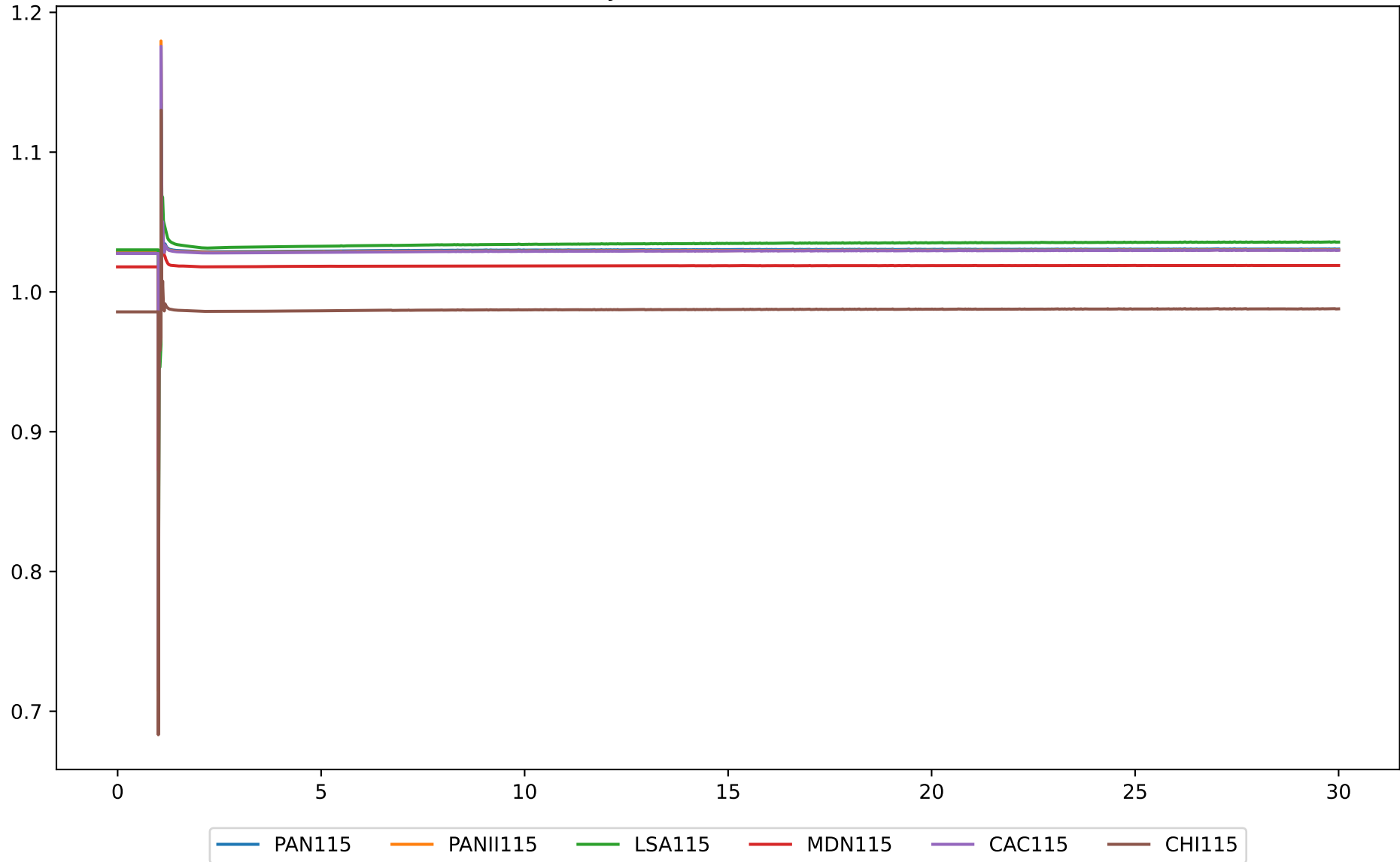
### Frecuencia (Hz)



# Voltajes 230kV - Panama

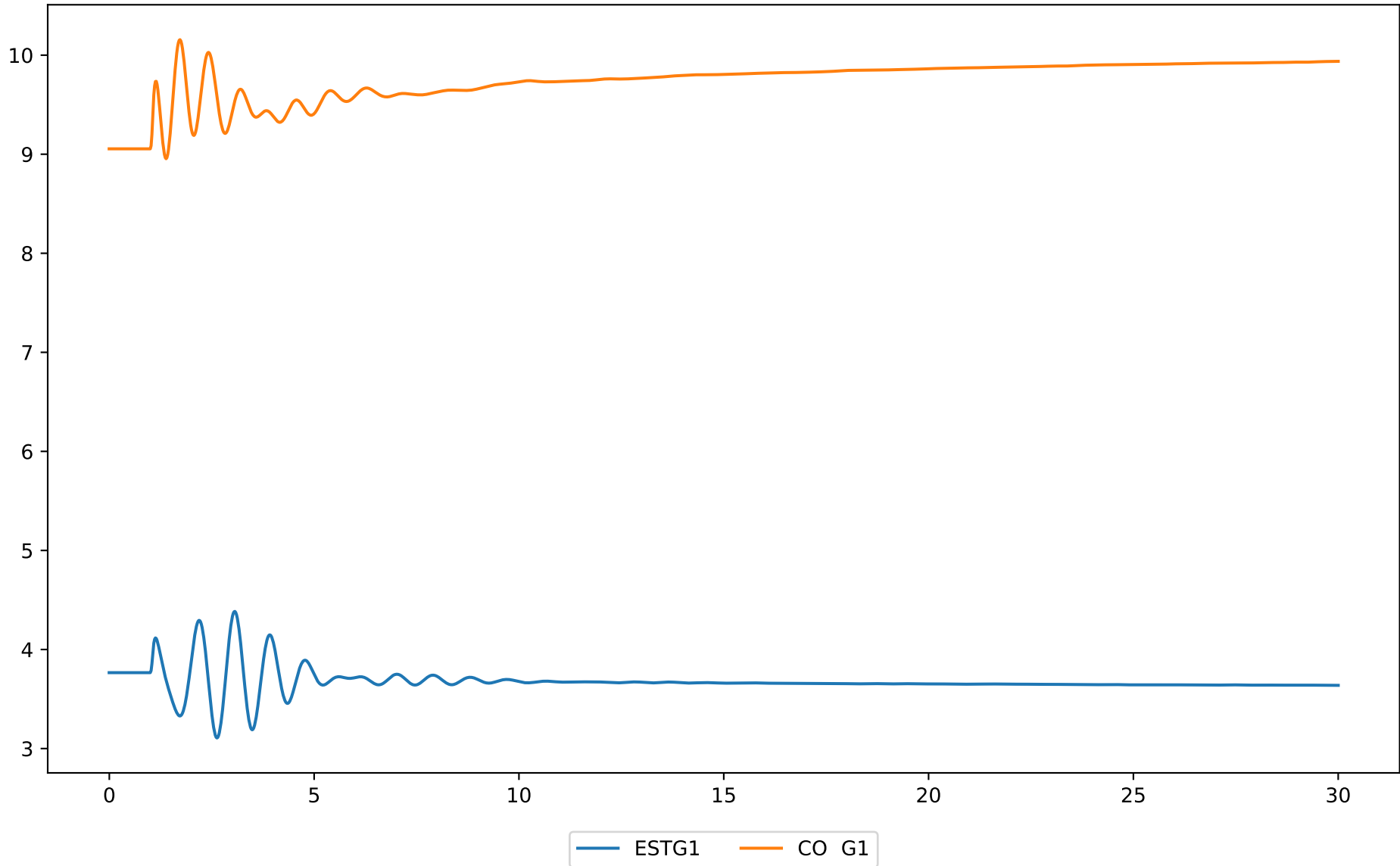


### Voltajes 115kV - Panama



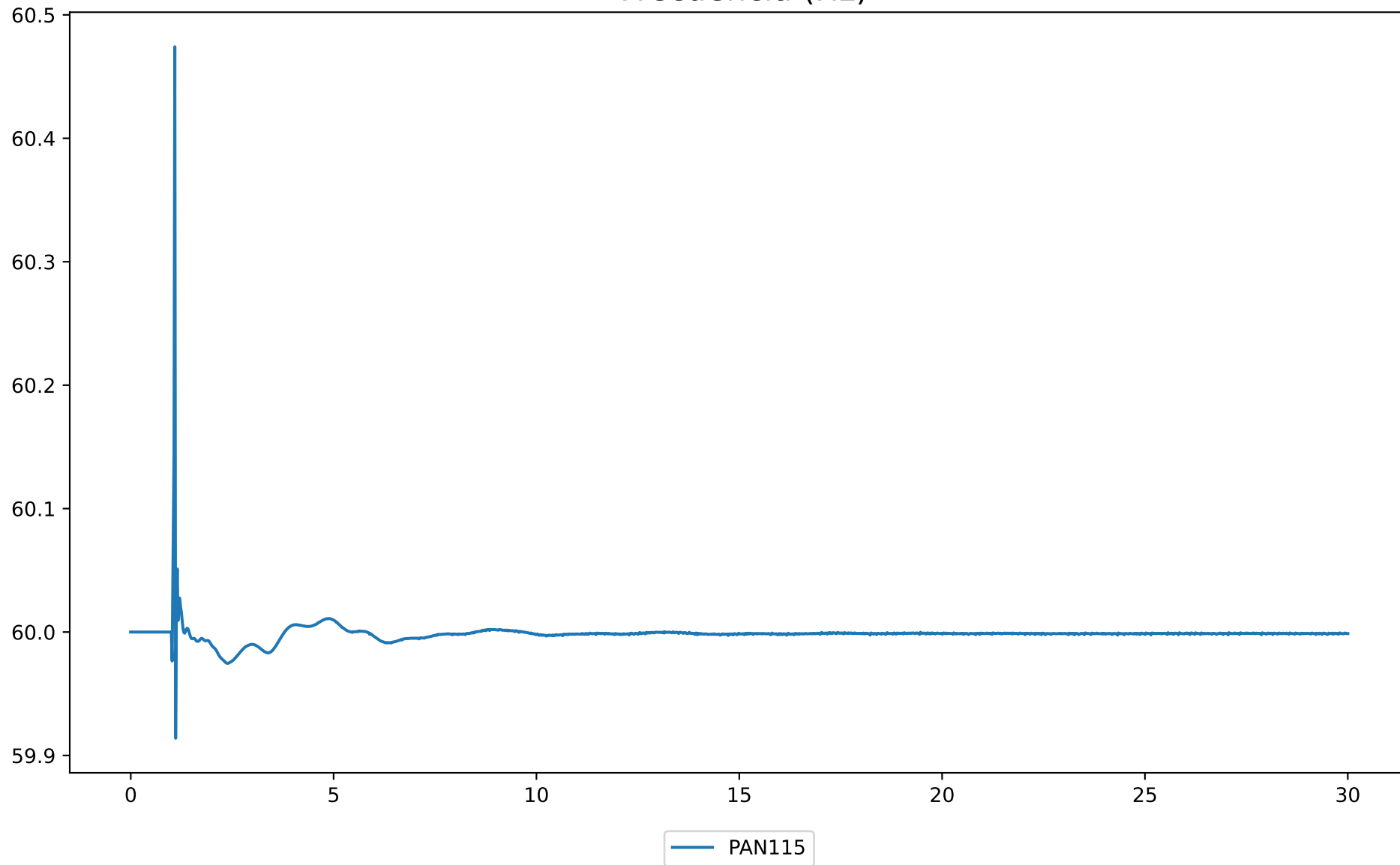


### Angulos de Rotacion de Maquinas - Panama

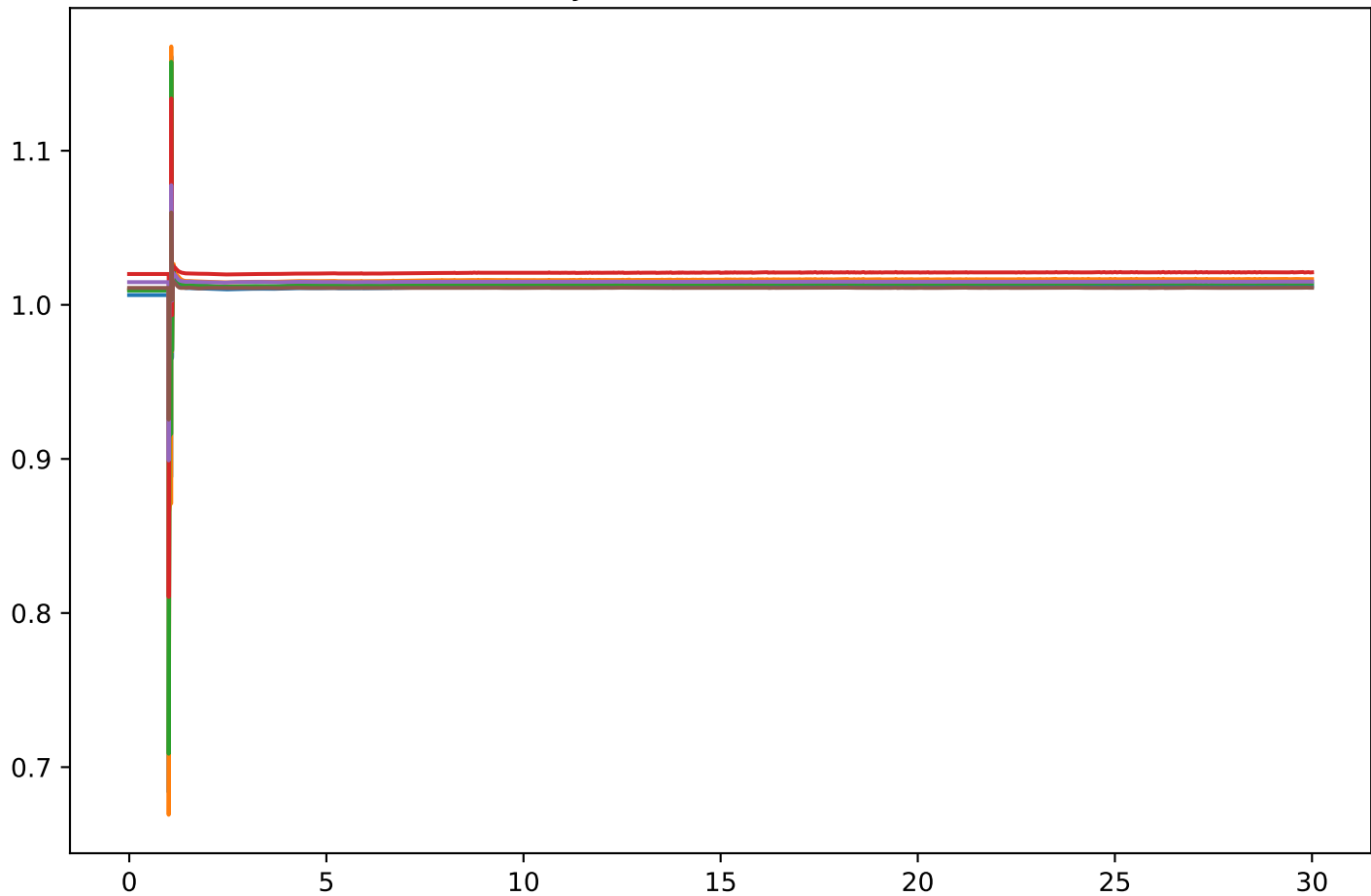


Caso: 1023-3-2030CA\_ModMax\_Lluv1-500kV - Contingencia: 6817-6816-T4-C8\_STC-PANII

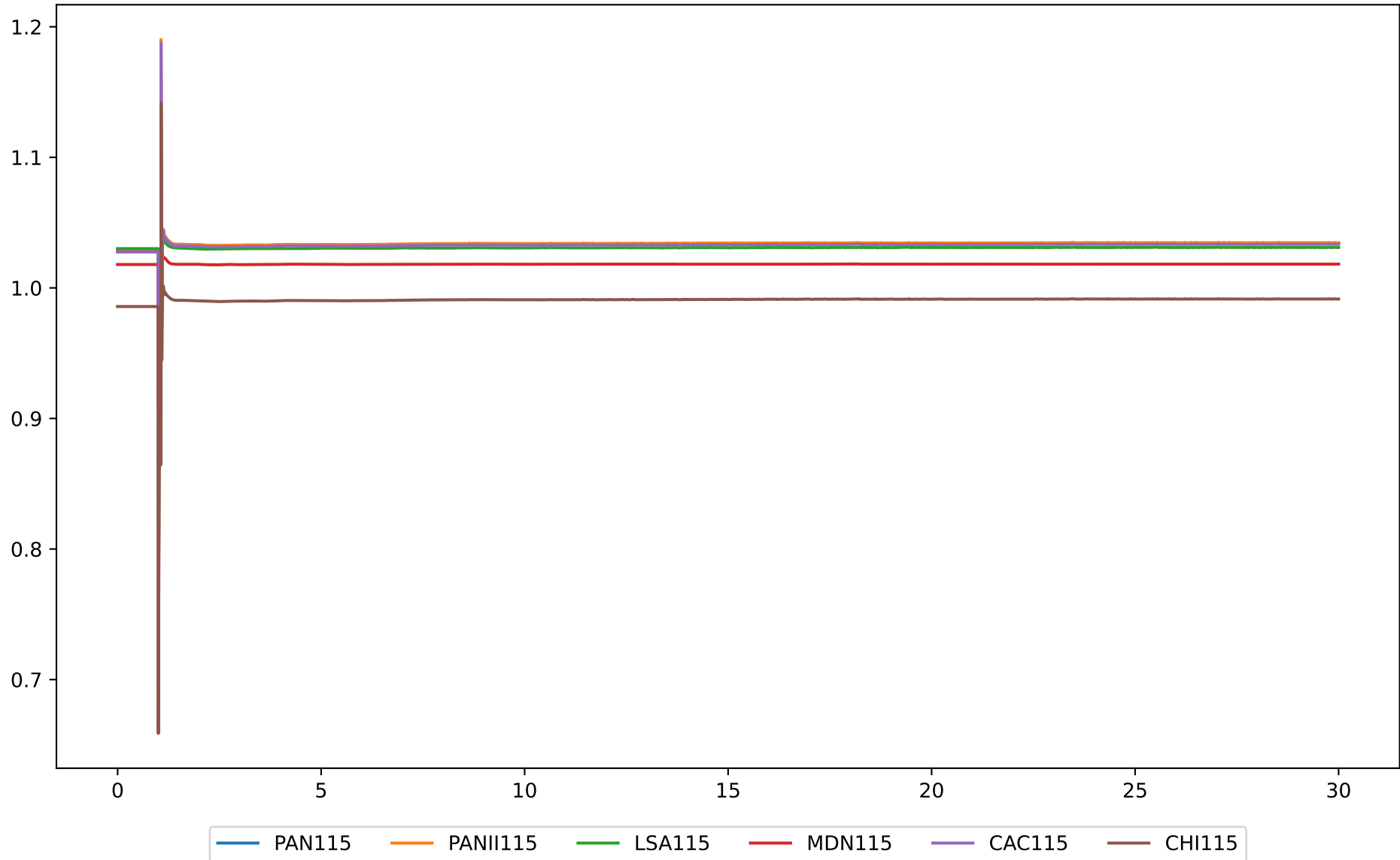
### Frecuencia (Hz)



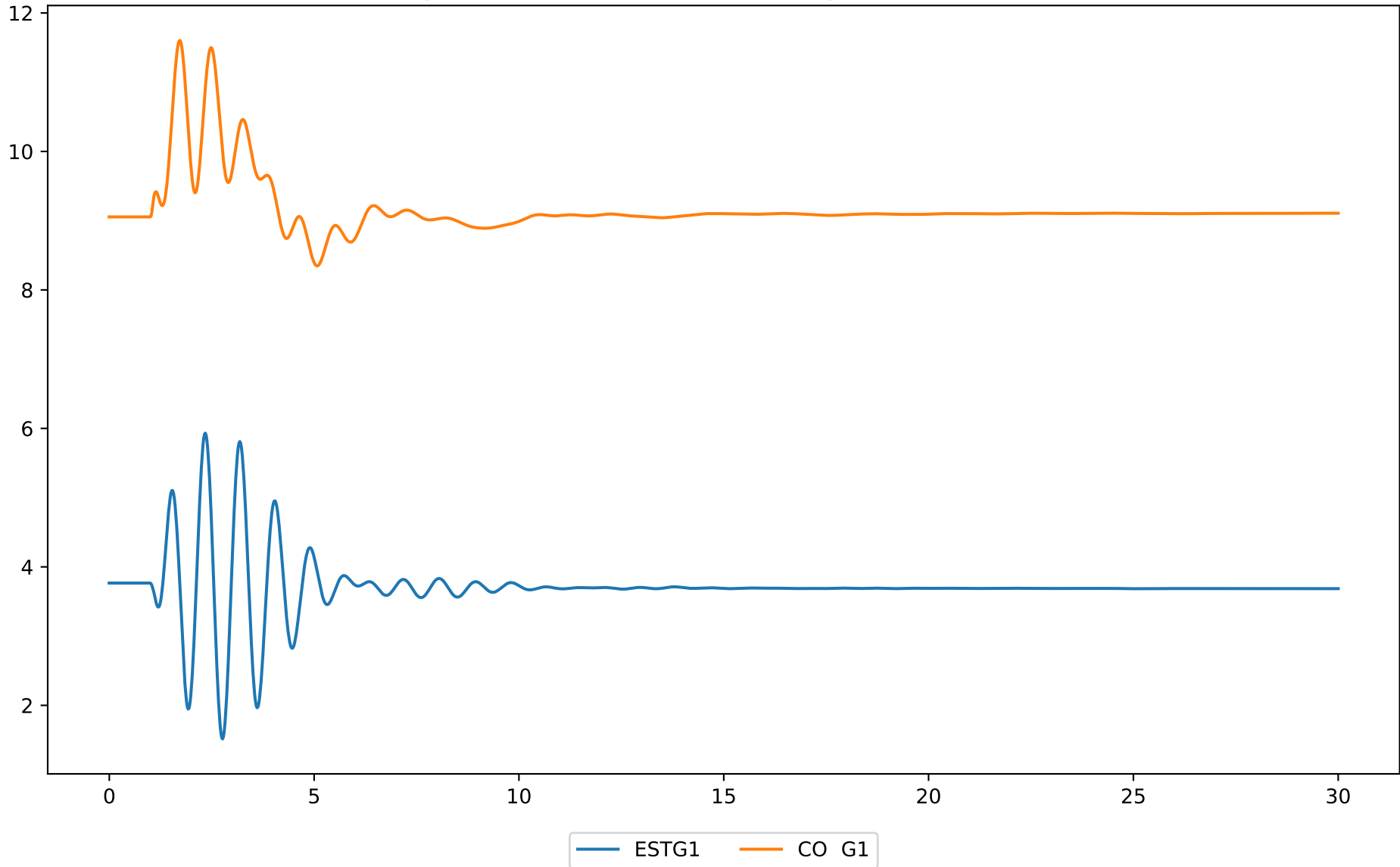
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

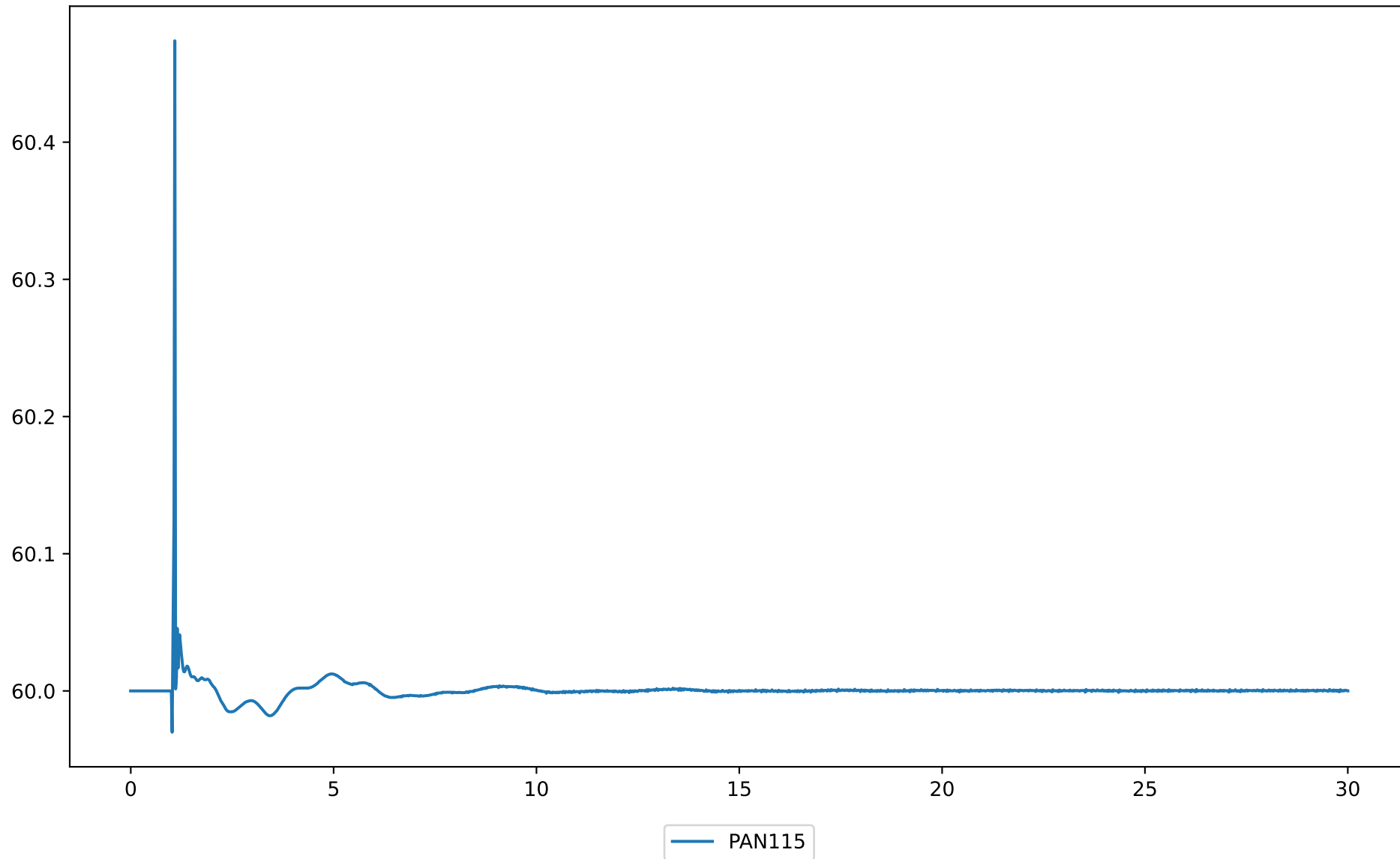


### Angulos de Rotacion de Maquinas - Panama

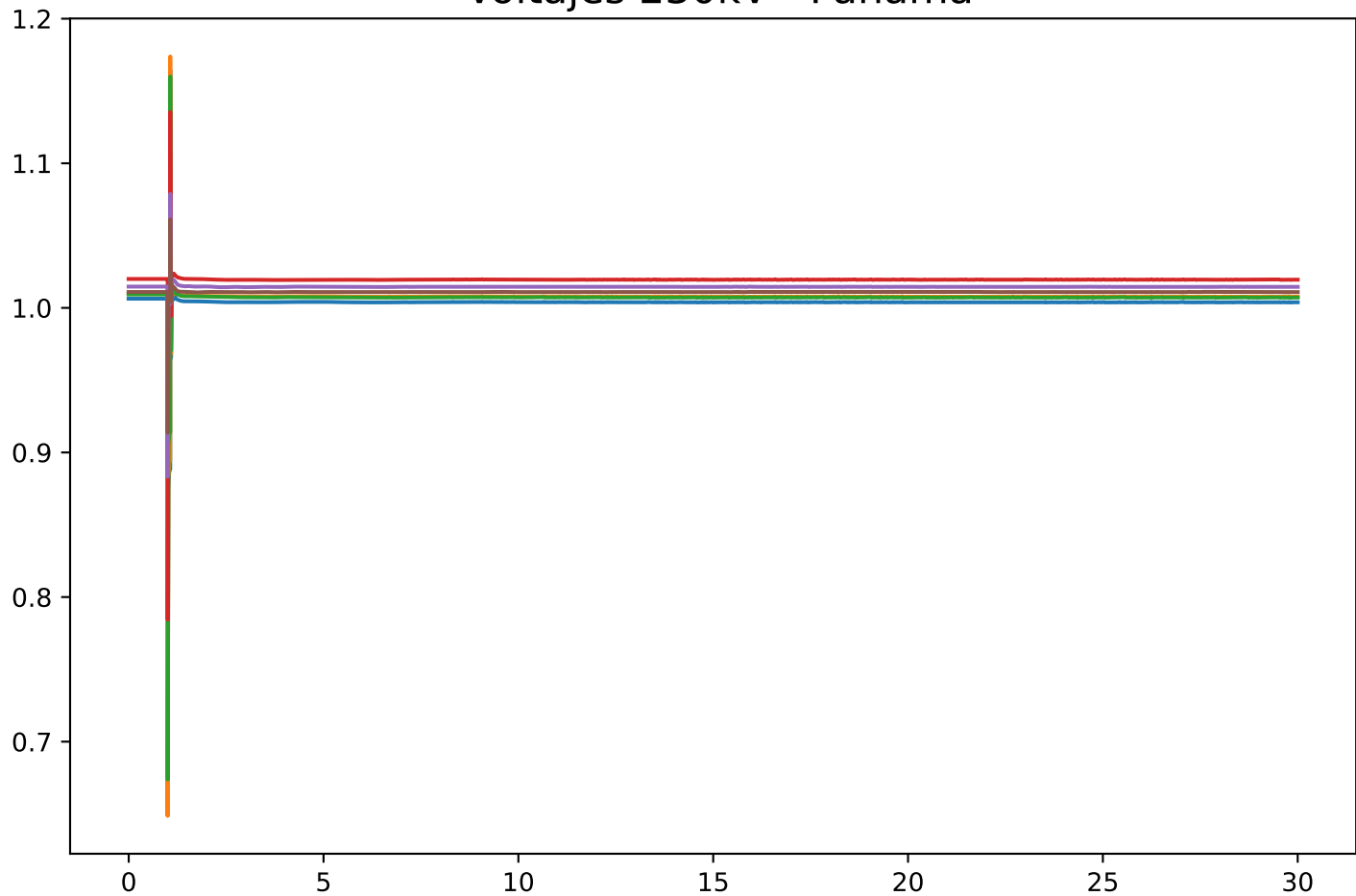


Caso: 1023-3-2030CA\_ModMax\_Lluv1-500kV - Contingencia: 6820-6823-1-C9\_STC-PAN3

### Frecuencia (Hz)

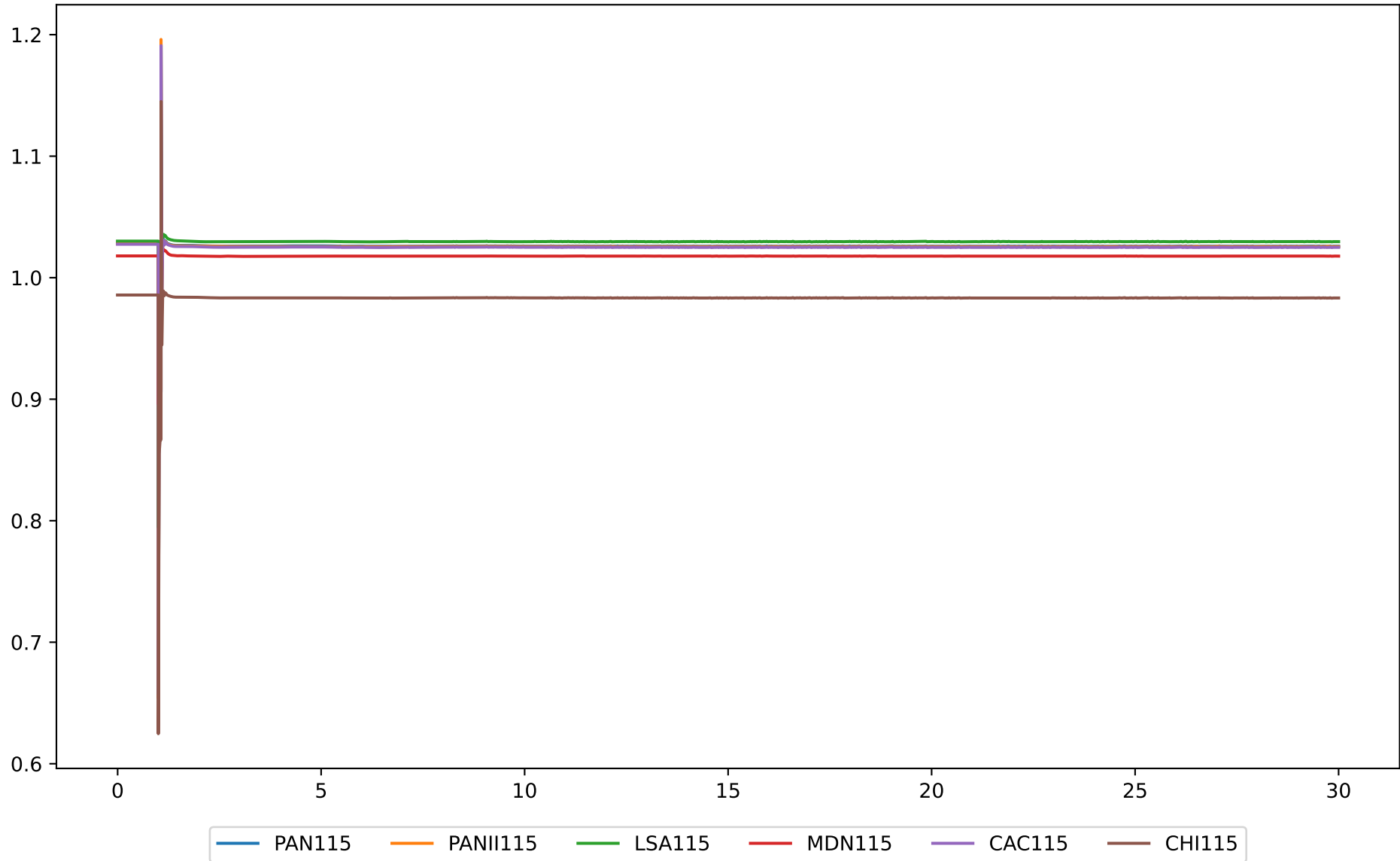


# Voltajes 230kV - Panama



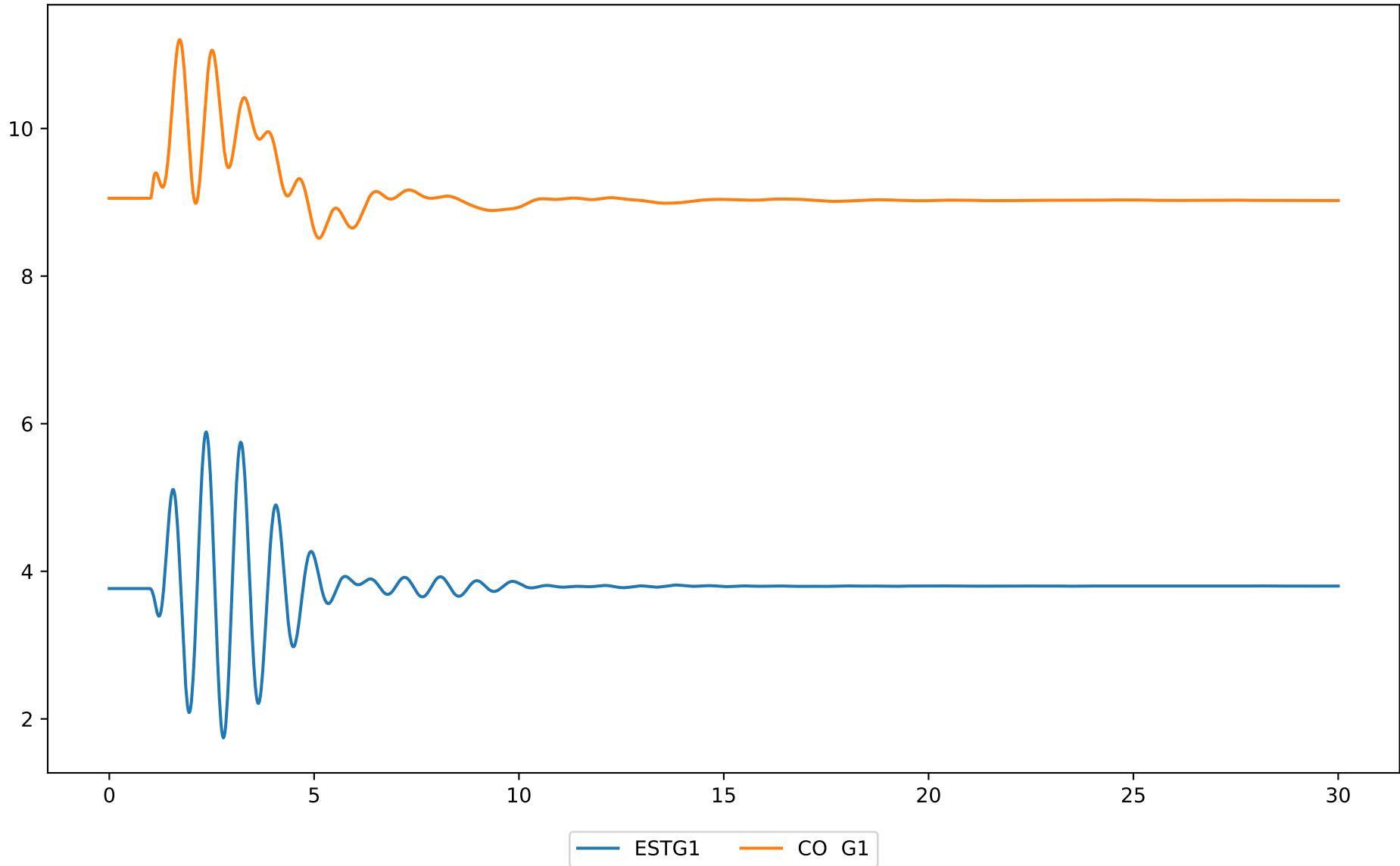
PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama





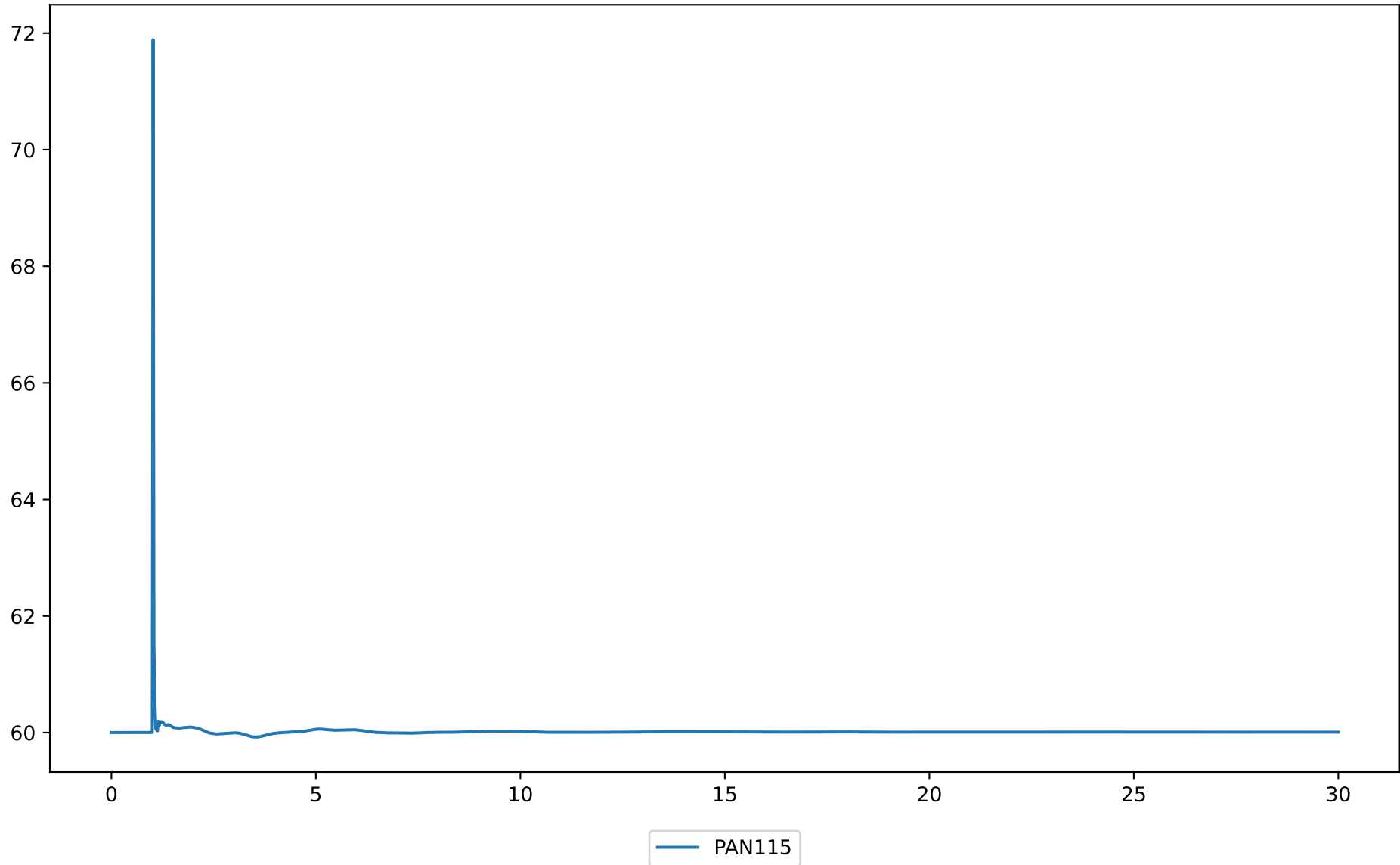
### Angulos de Rotacion de Maquinas - Panama



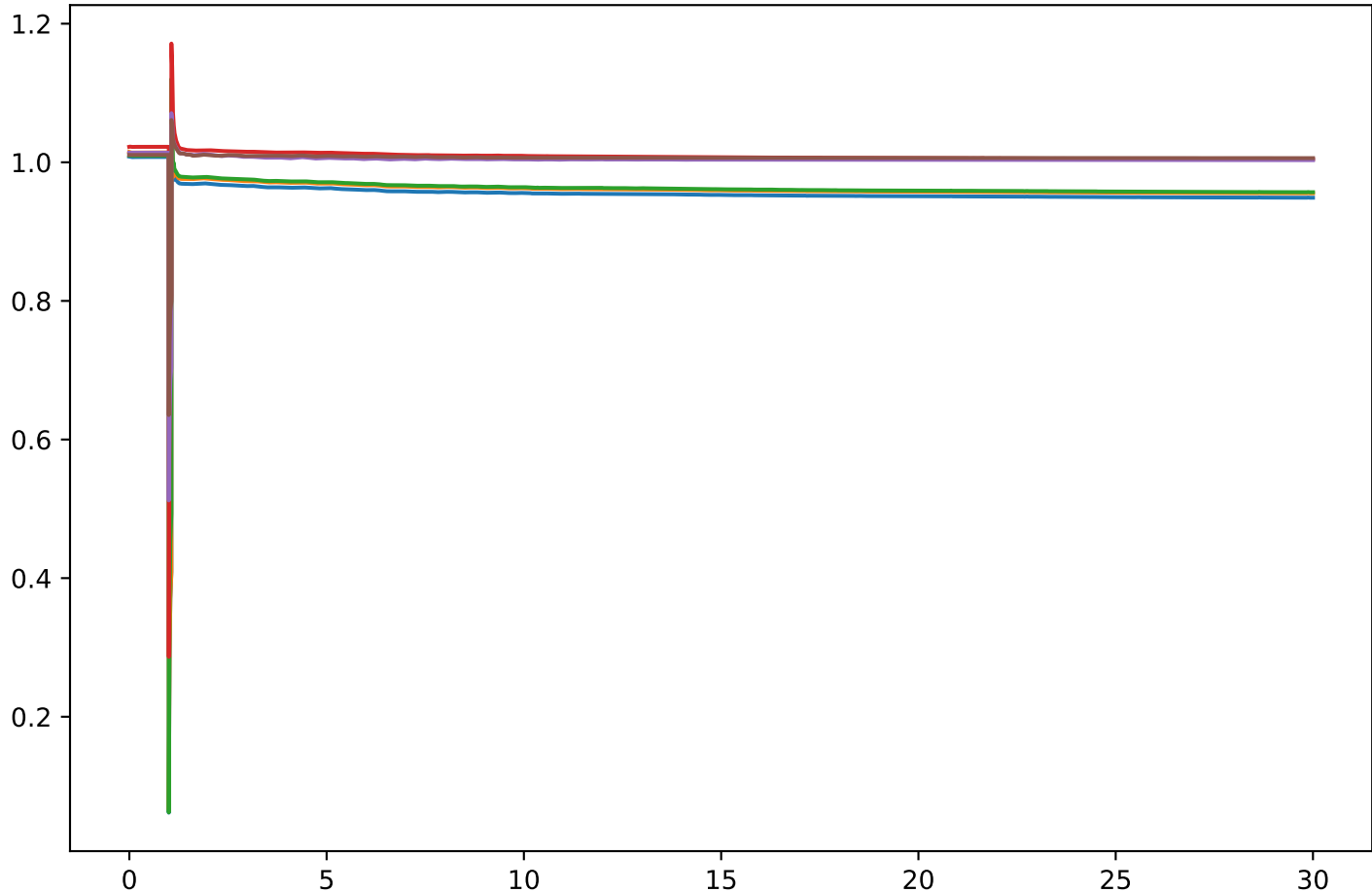
**2031 LLUVIOSA**

Caso: 1023-3-2031CA\_ModMax\_Lluv-500kV - Contingencia: 6851-6852-1-C1\_4LT500

### Frecuencia (Hz)

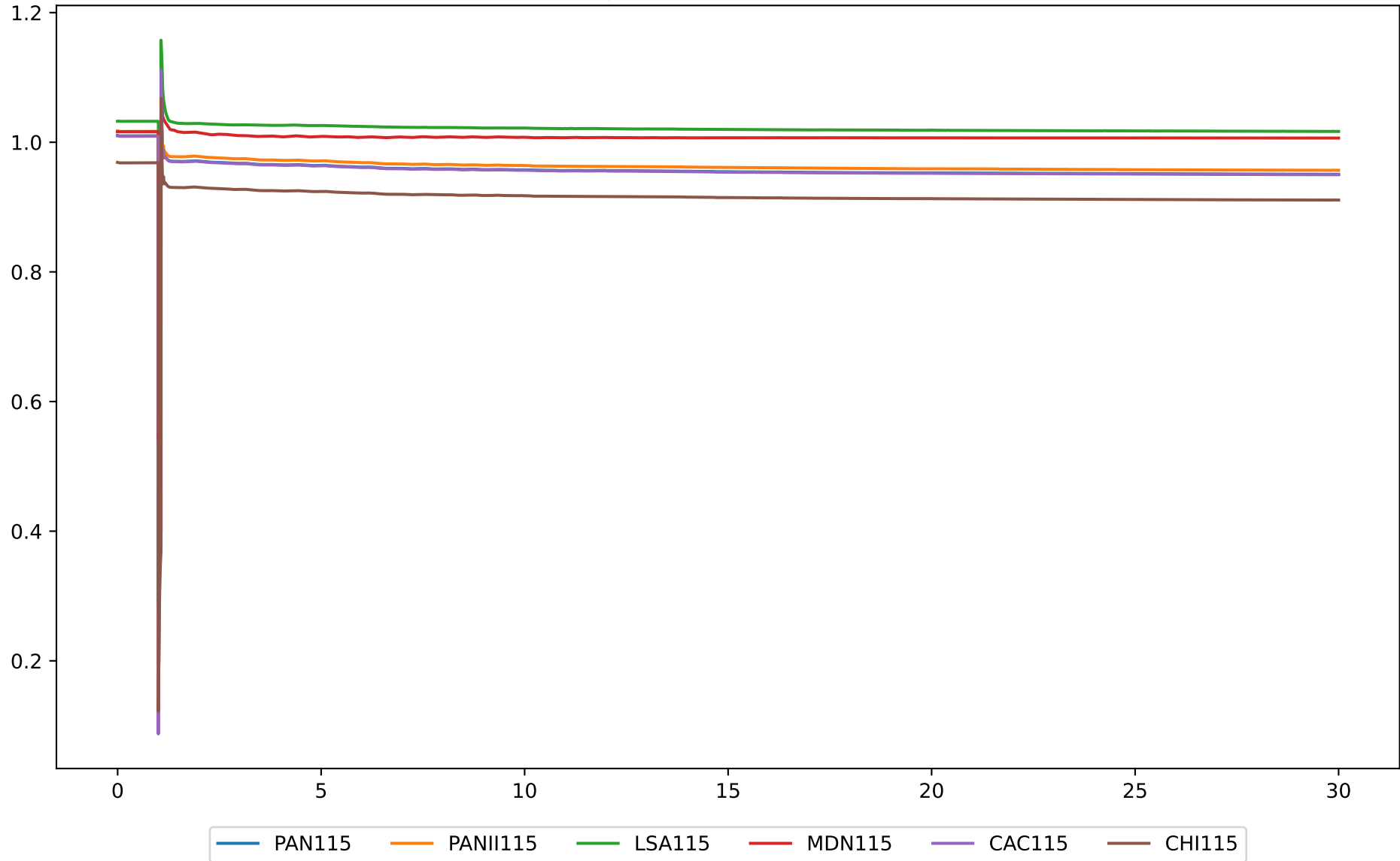


# Voltajes 230kV - Panama

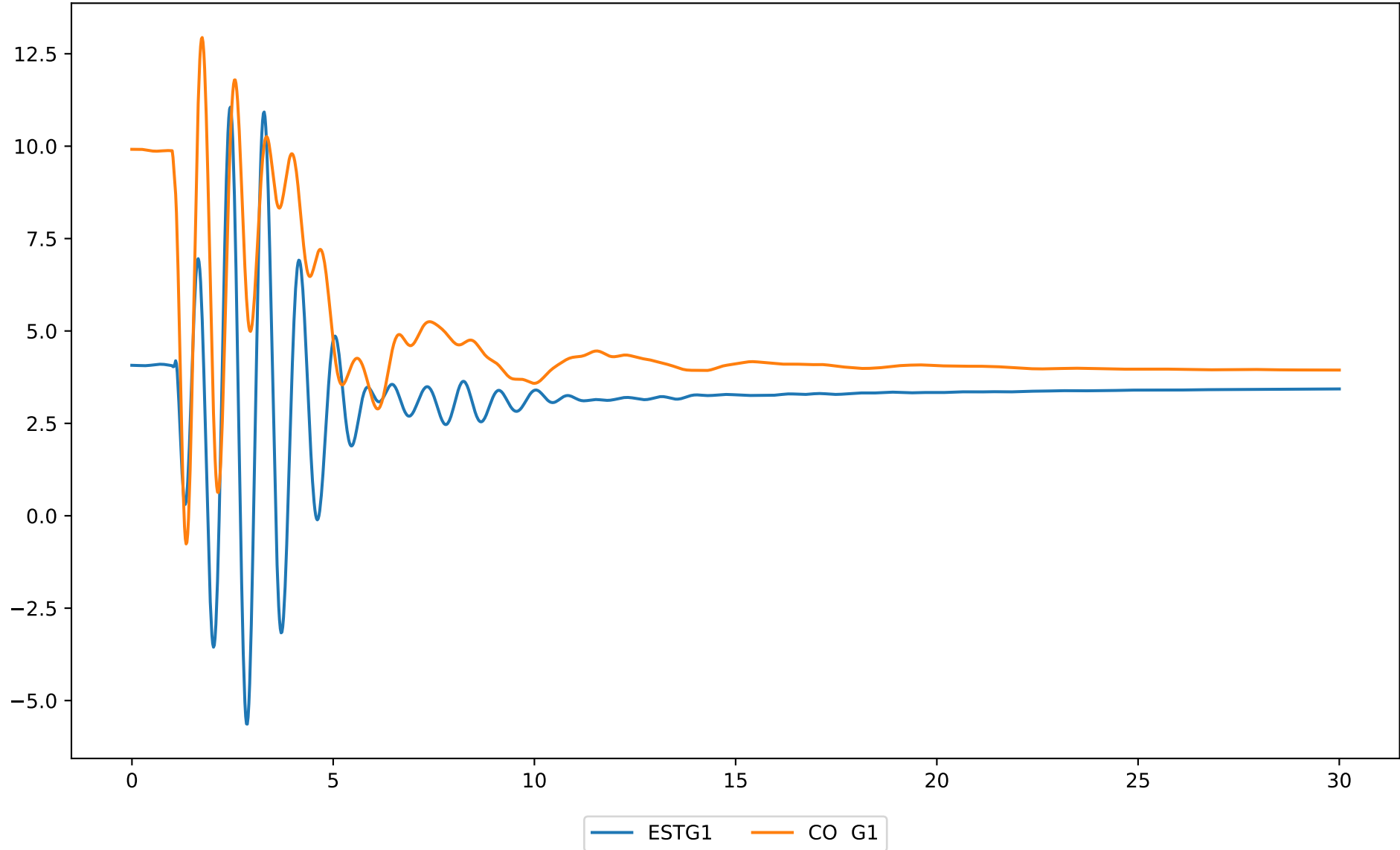


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama

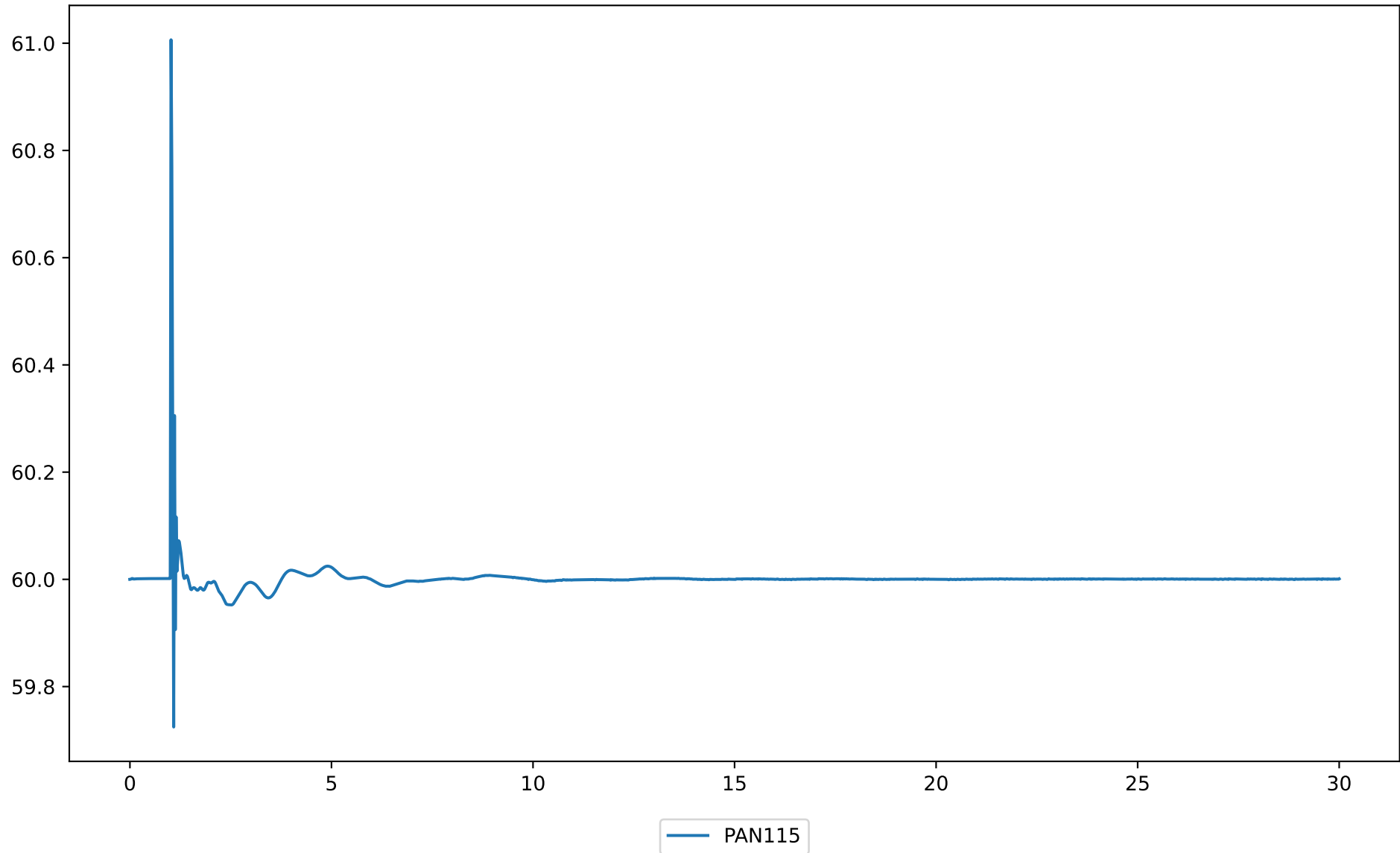


### Angulos de Rotacion de Maquinas - Panama

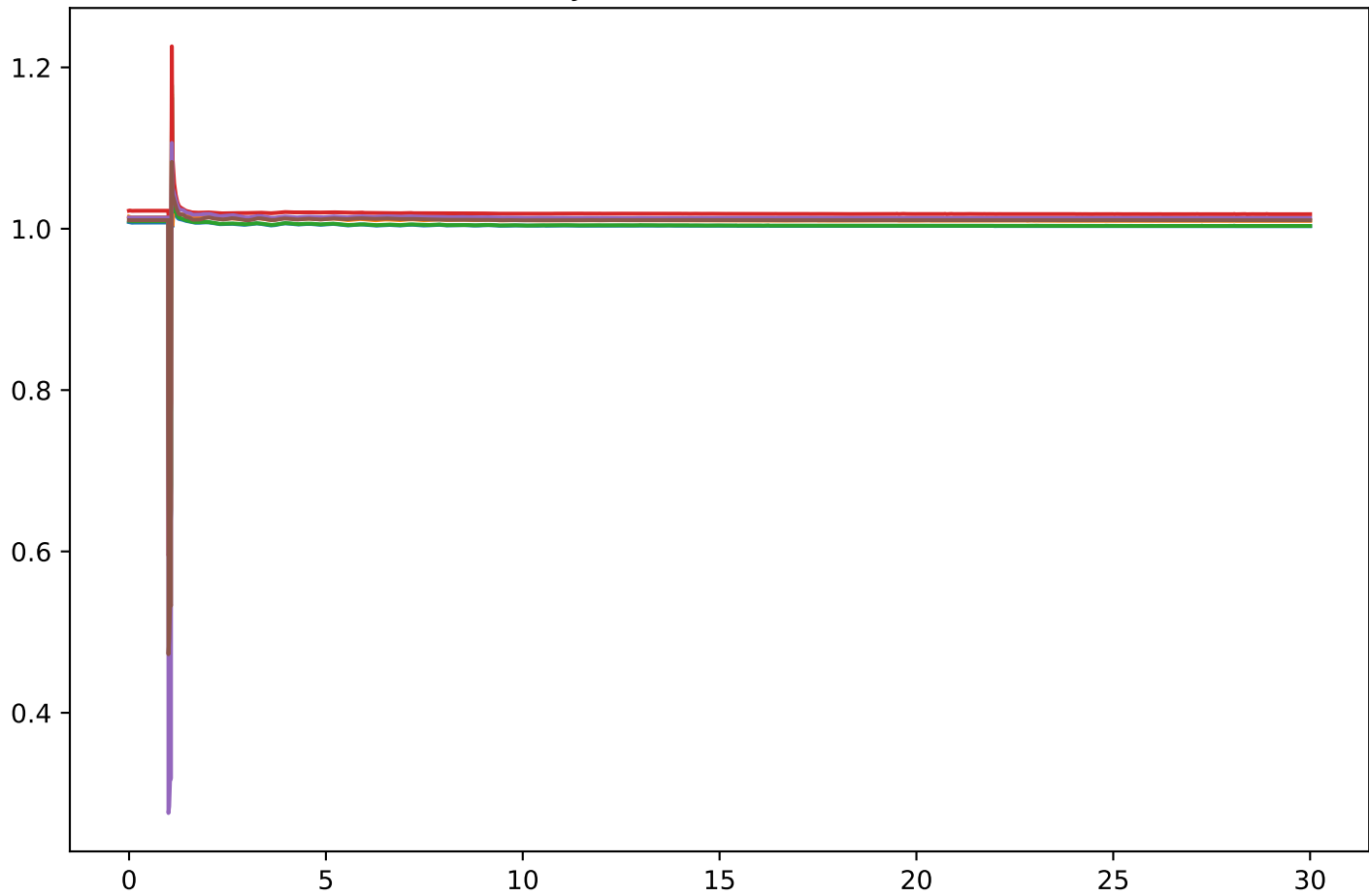


Caso: 1023-3-2031CA\_ModMax\_Lluv-500kV - Contingencia: 6096-6837-0A-C2\_FOR-CHG

### Frecuencia (Hz)

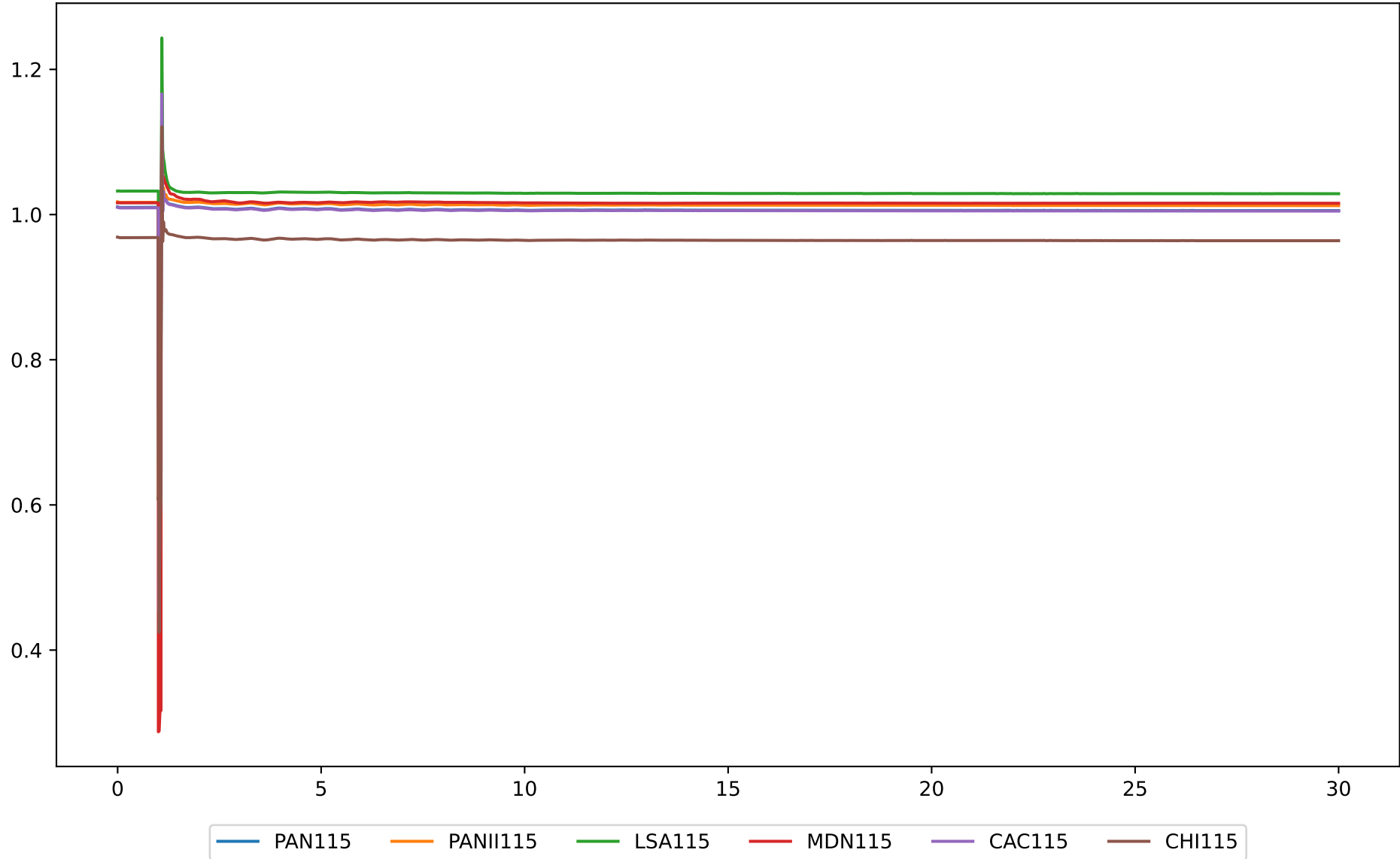


# Voltajes 230kV - Panama

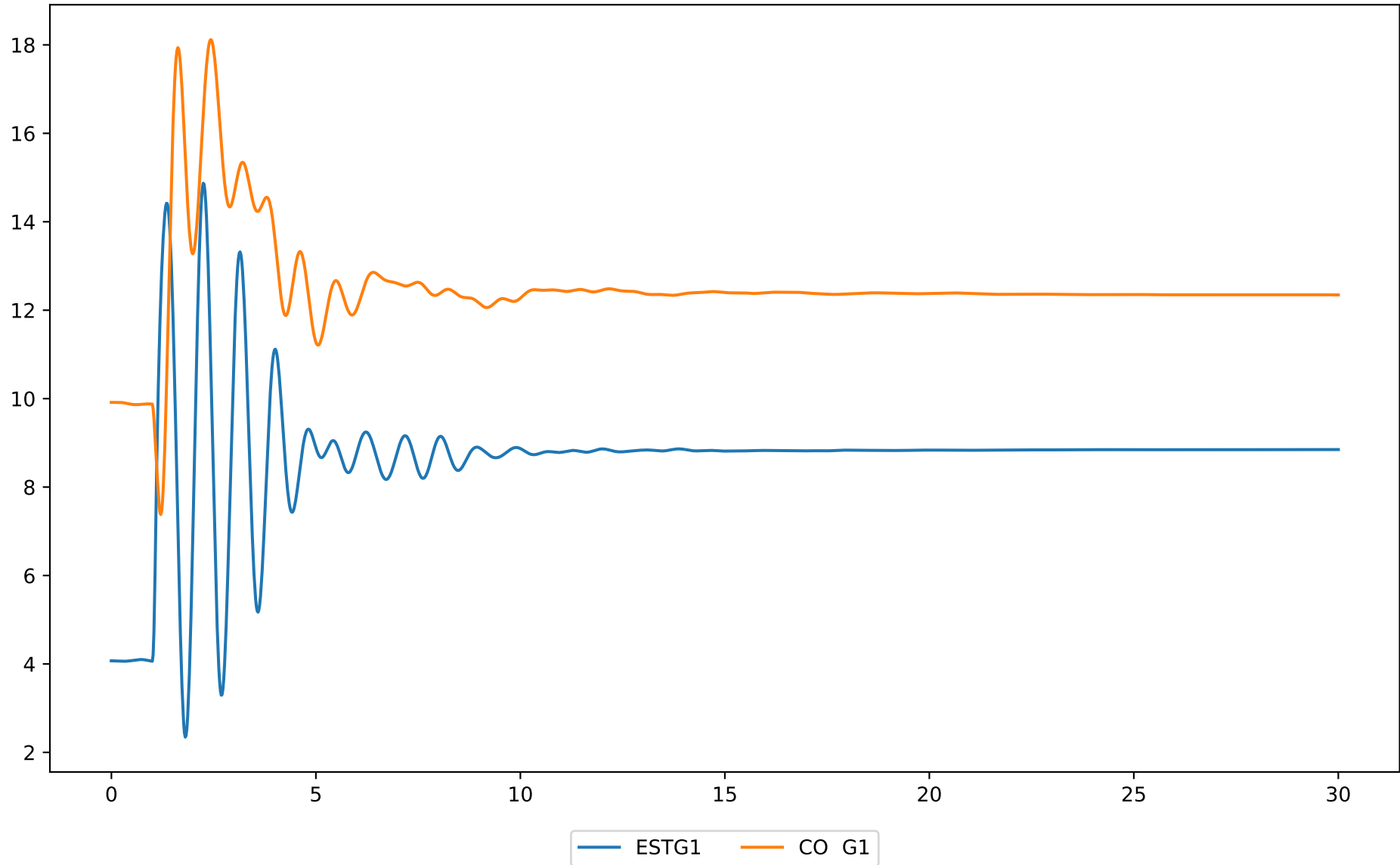




### Voltajes 115kV - Panama

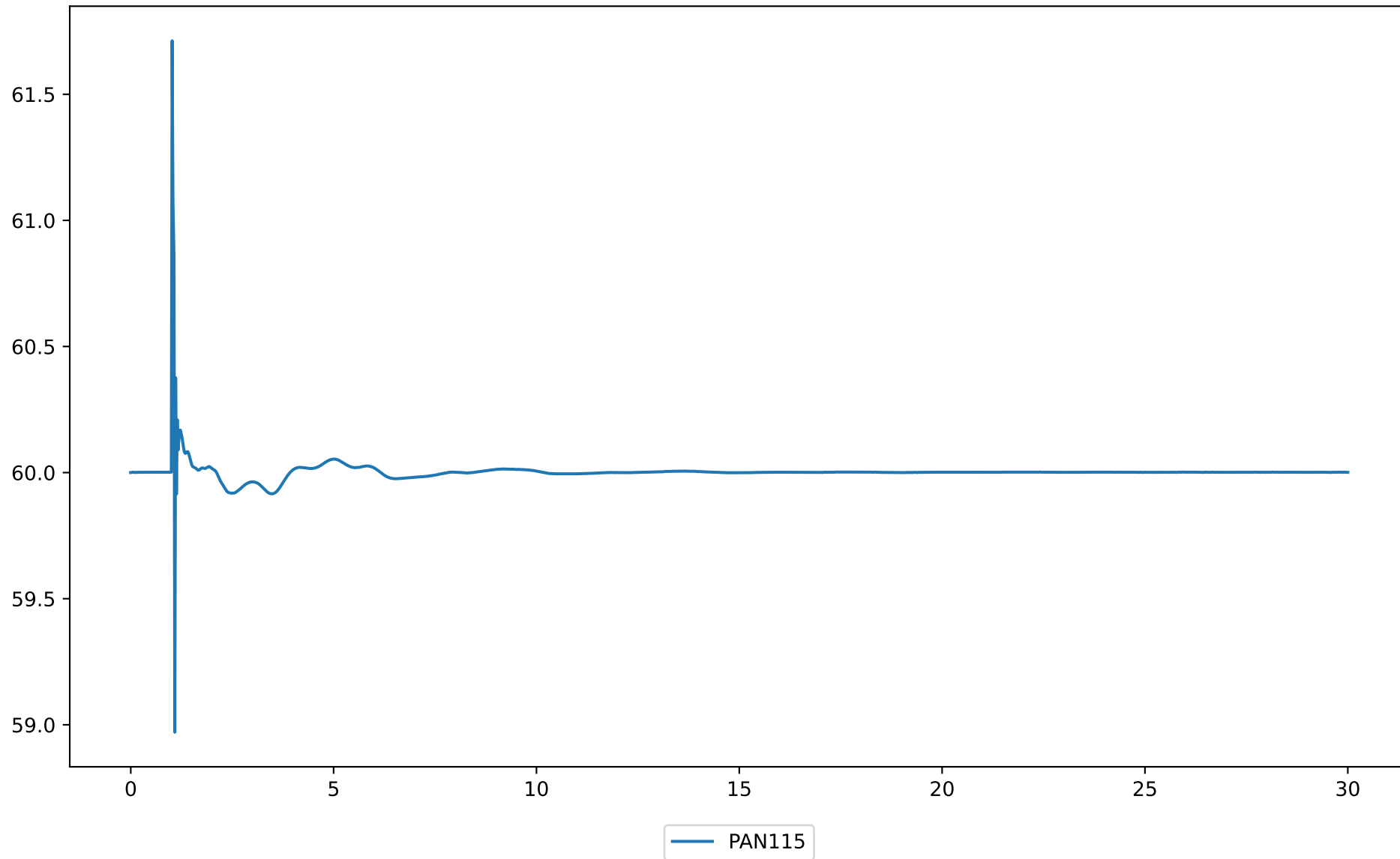


### Angulos de Rotacion de Maquinas - Panama

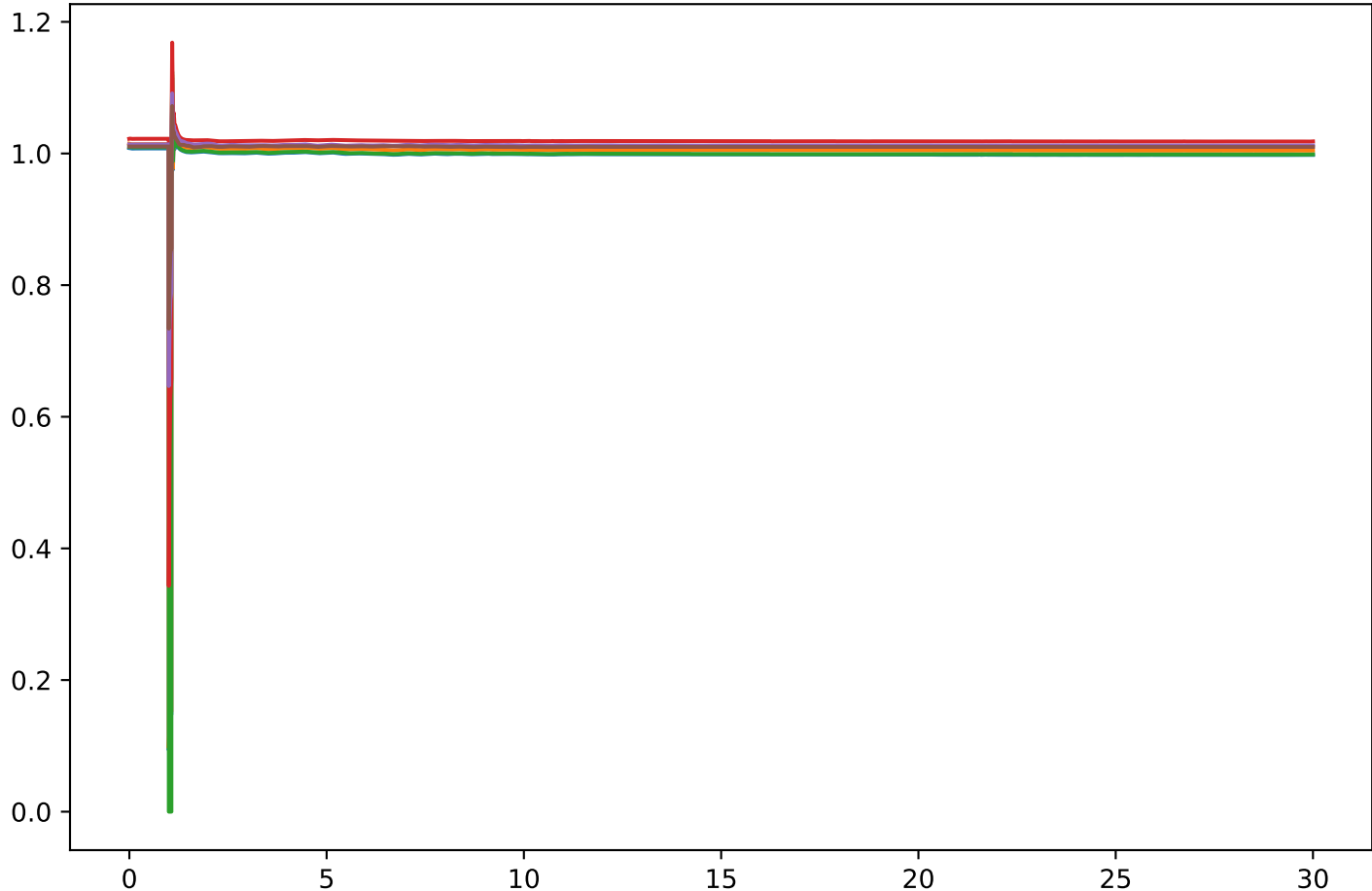


Caso: 1023-3-2031CA\_ModMax\_Lluv-500kV - Contingencia: 6005-6830-9A-C3\_CHO-ANT

### Frecuencia (Hz)

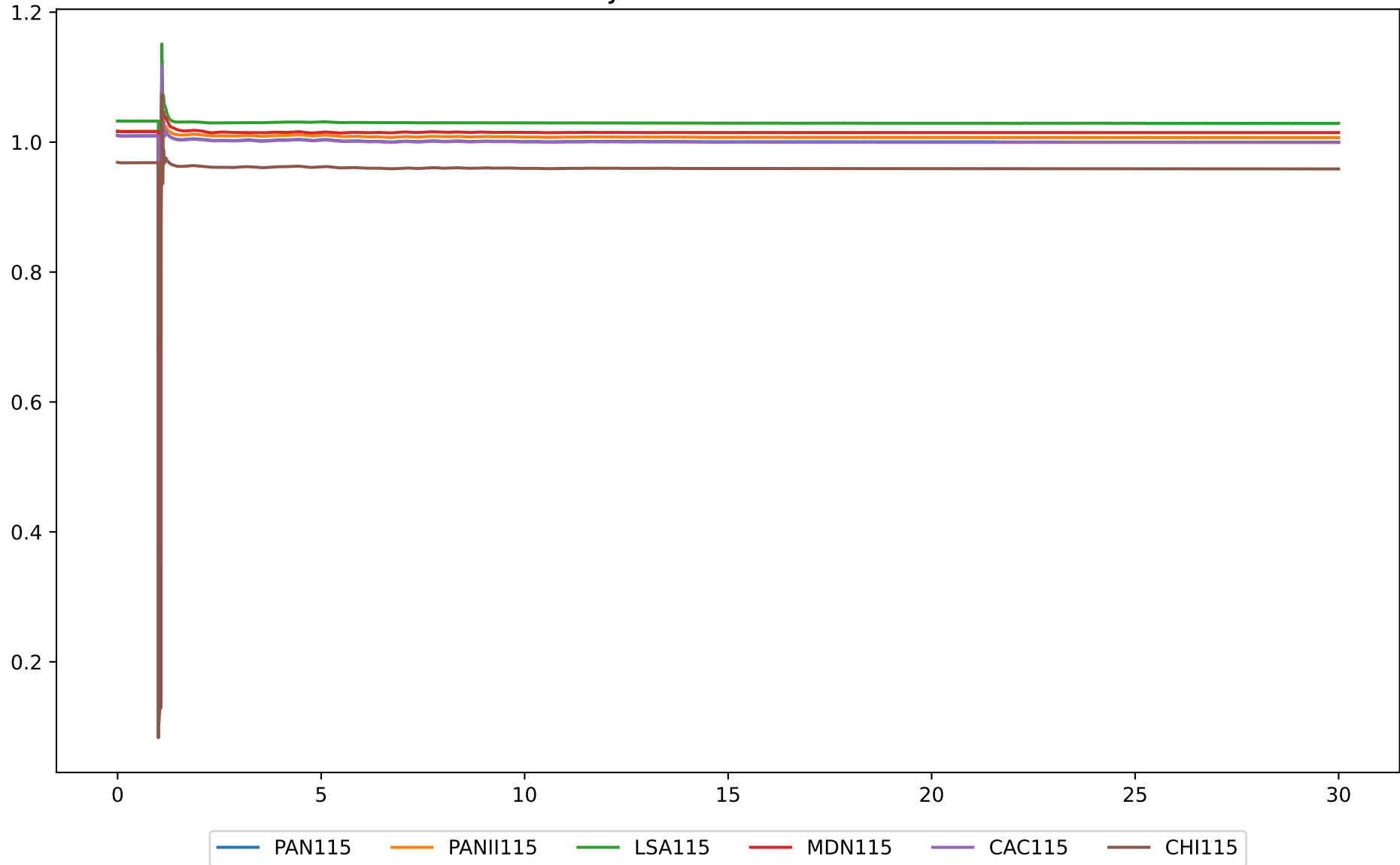


# Voltajes 230kV - Panama

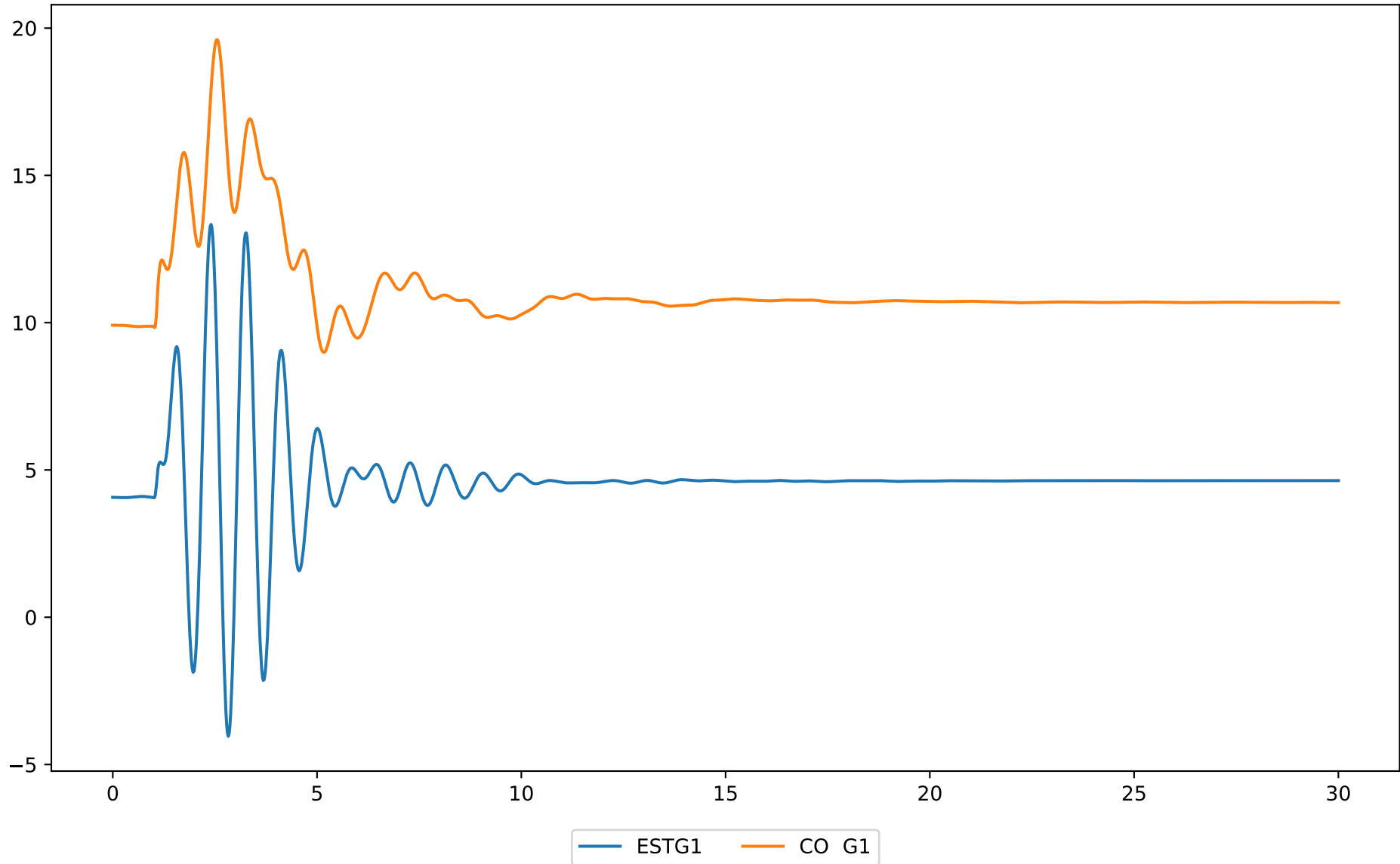


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama

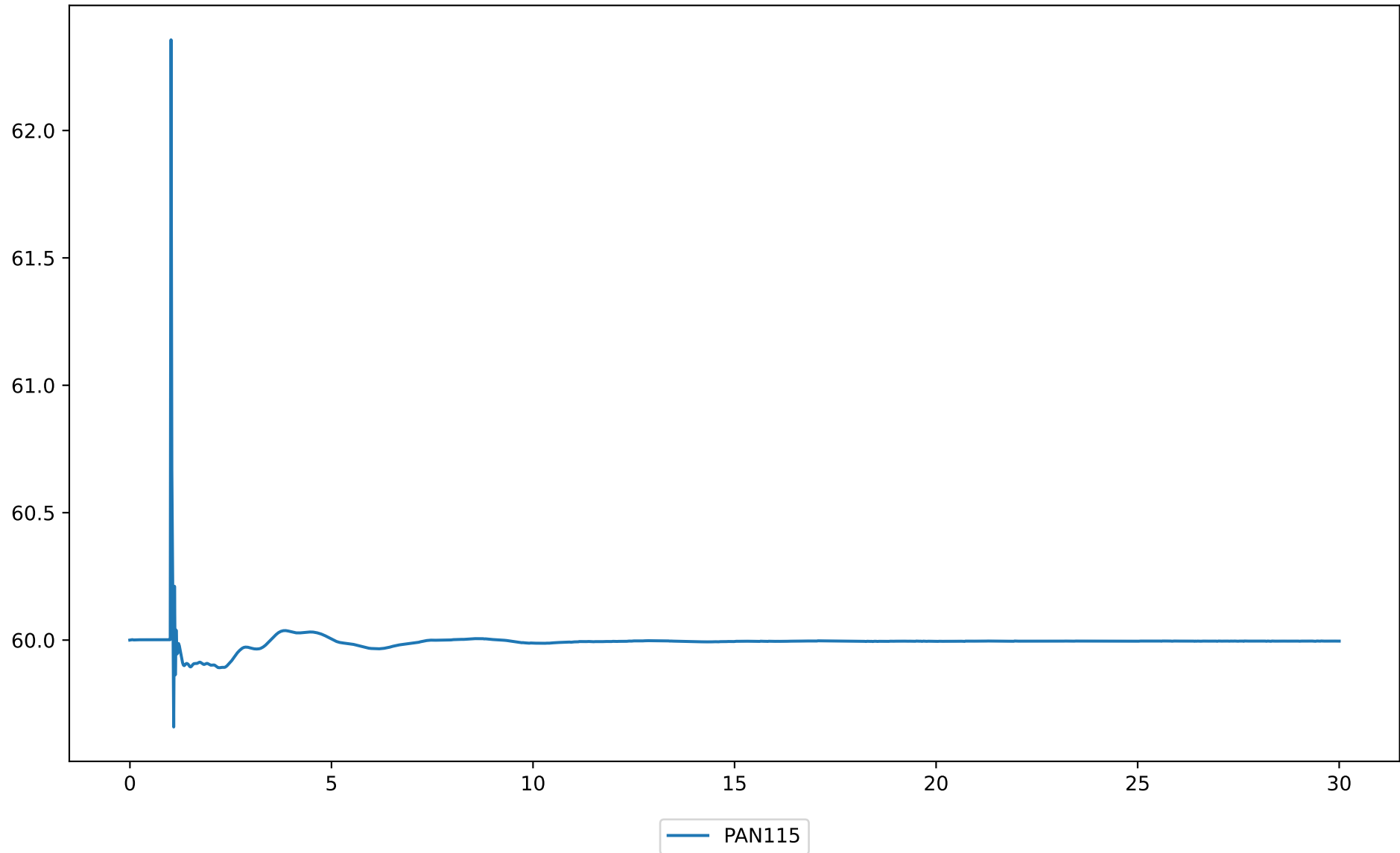


### Angulos de Rotacion de Maquinas - Panama

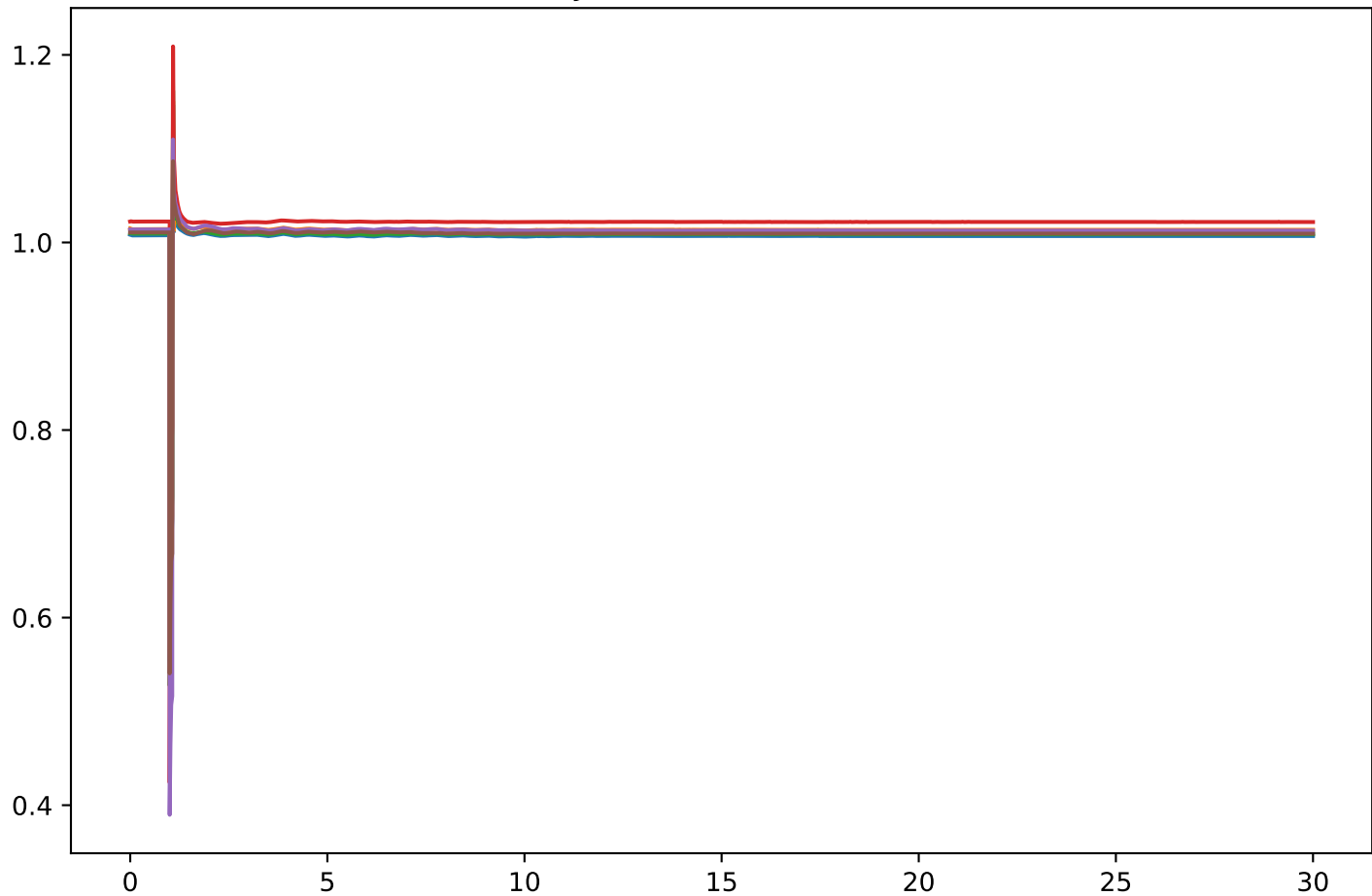


Caso: 1023-3-2031CA\_ModMax\_Lluv-500kV - Contingencia: 6178-6179-19-C4\_ESTI

### Frecuencia (Hz)

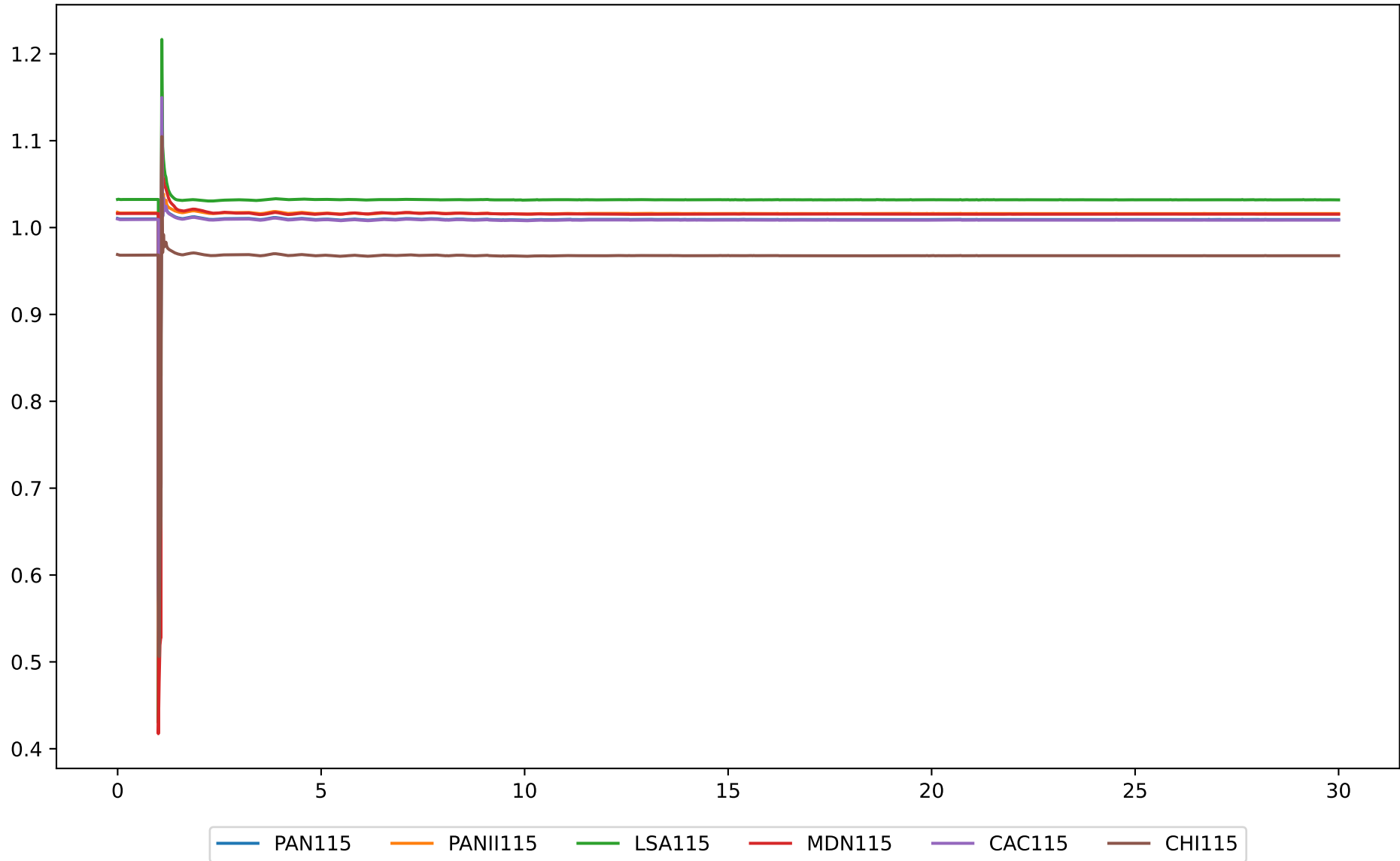


# Voltajes 230kV - Panama

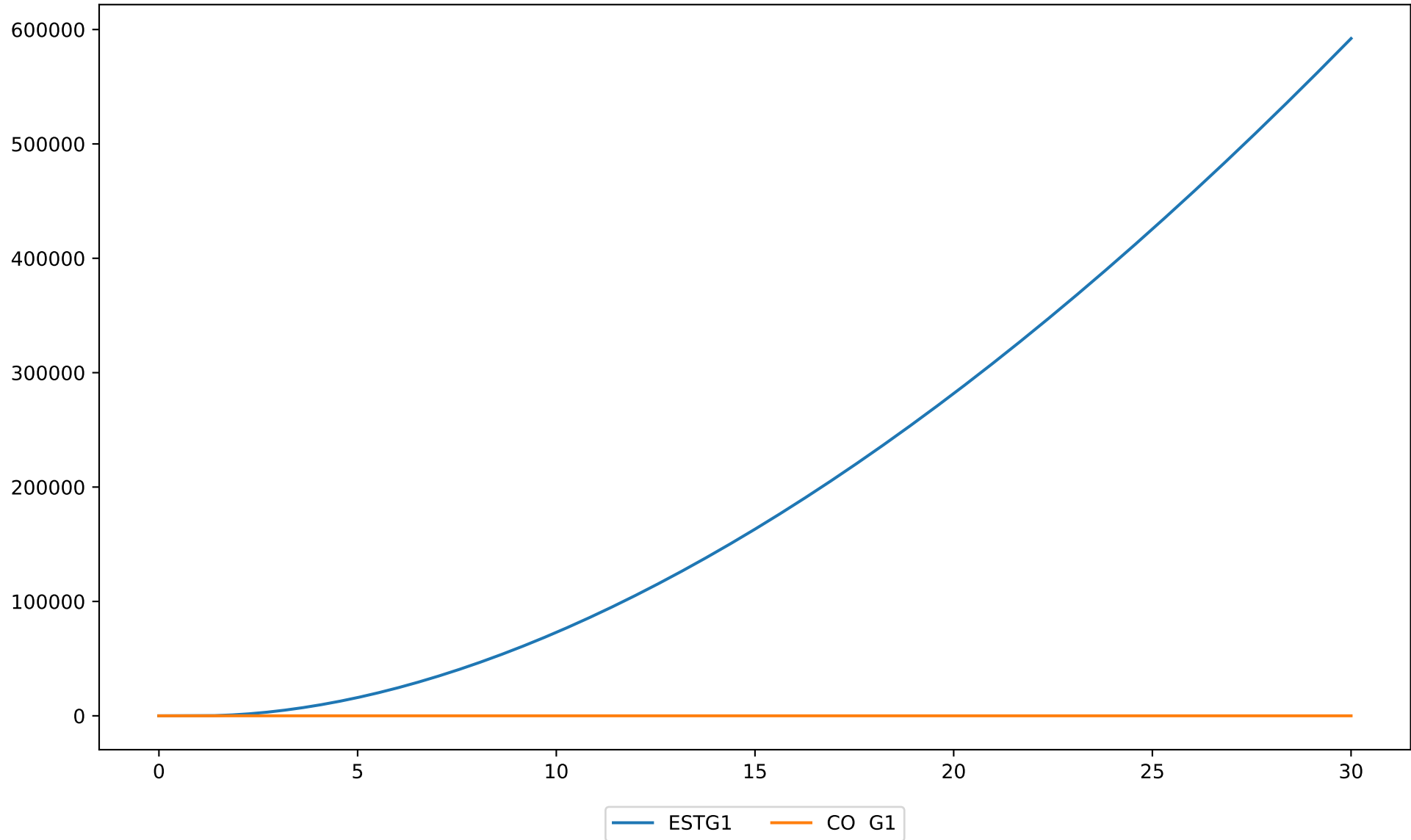




### Voltajes 115kV - Panama

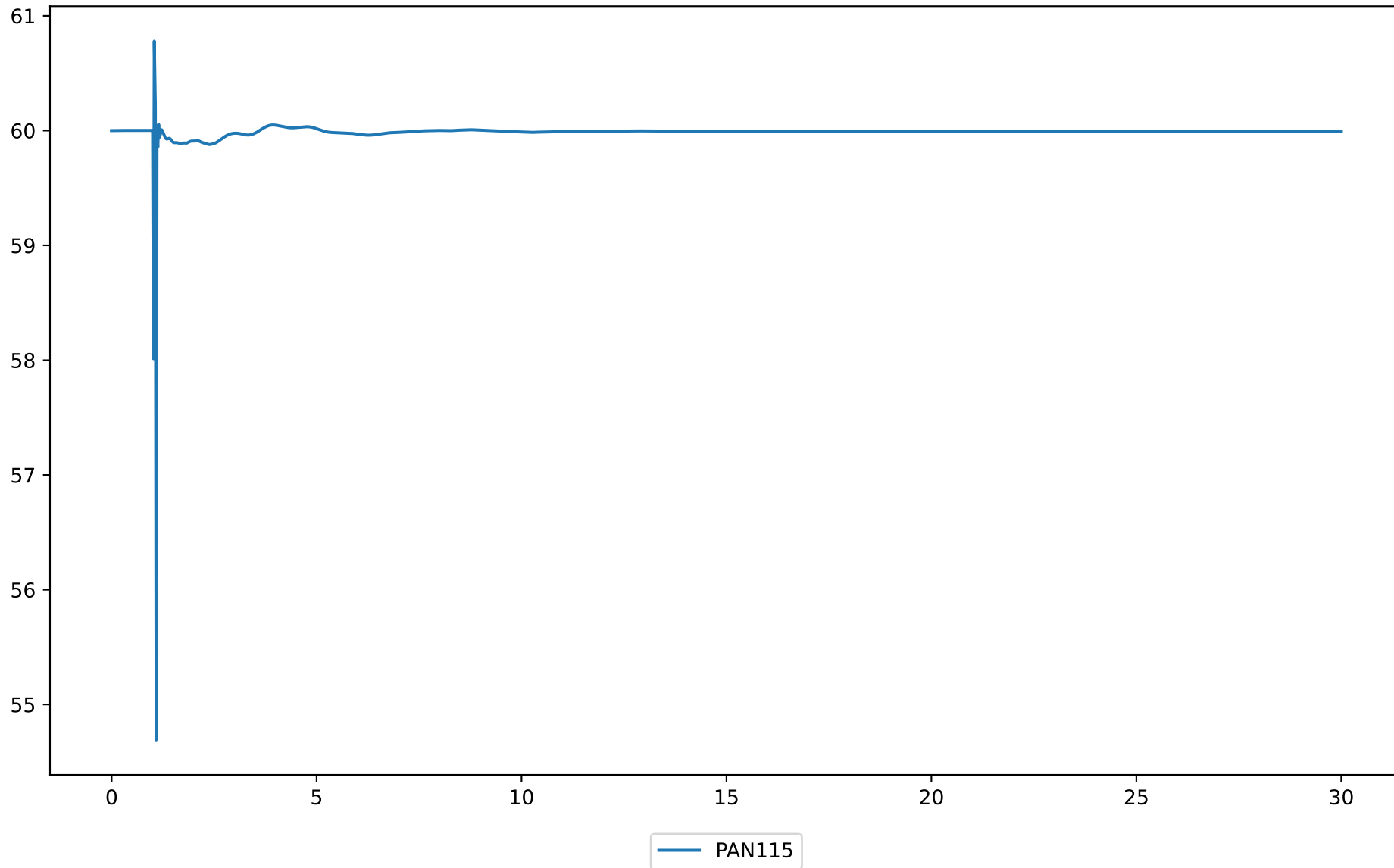


### Angulos de Rotacion de Maquinas - Panama

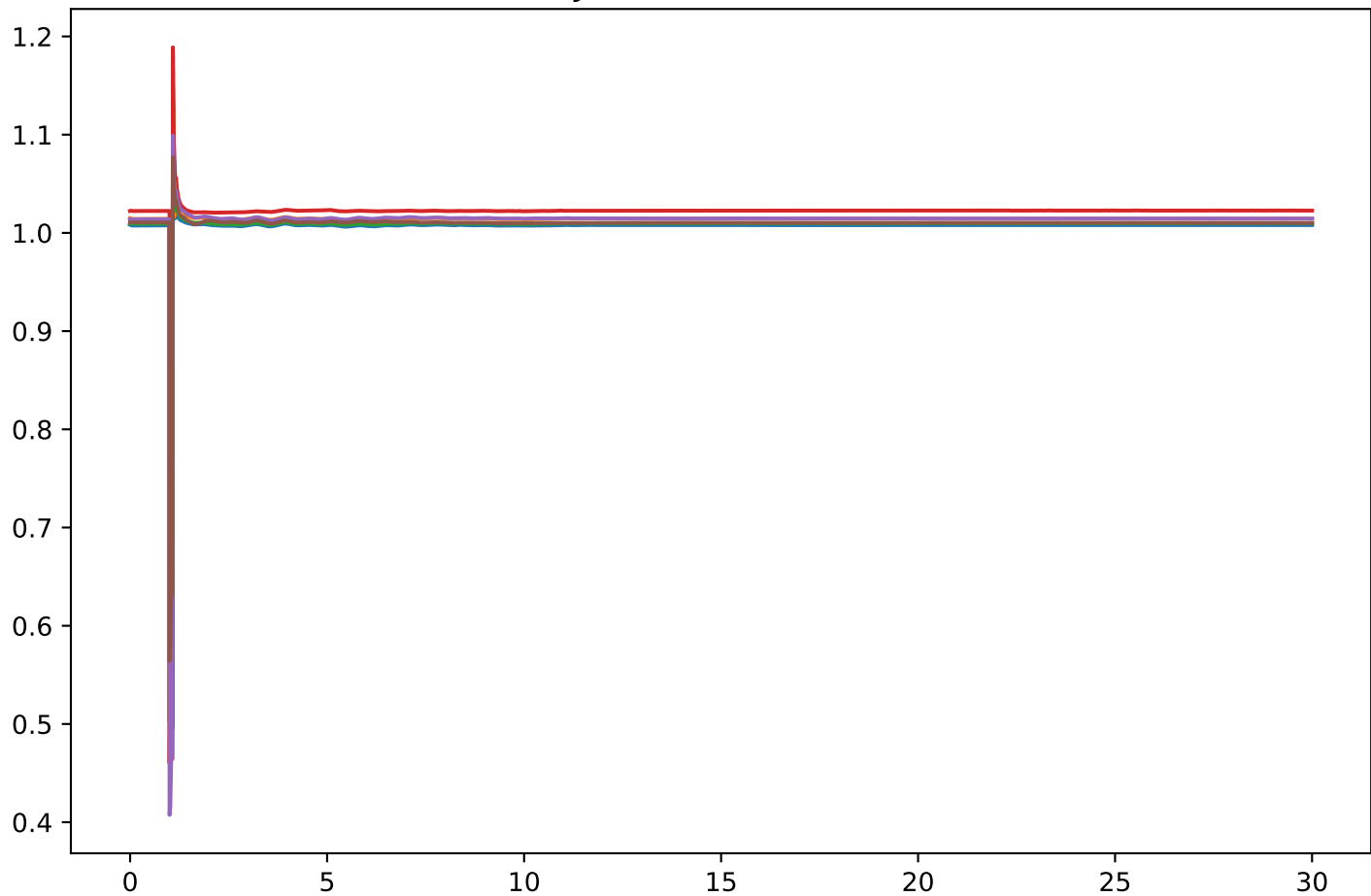


Caso: 1023-3-2031CA\_ModMax\_Lluv-500kV - Contingencia: 6179-6360-22-C5\_GUA-GLA

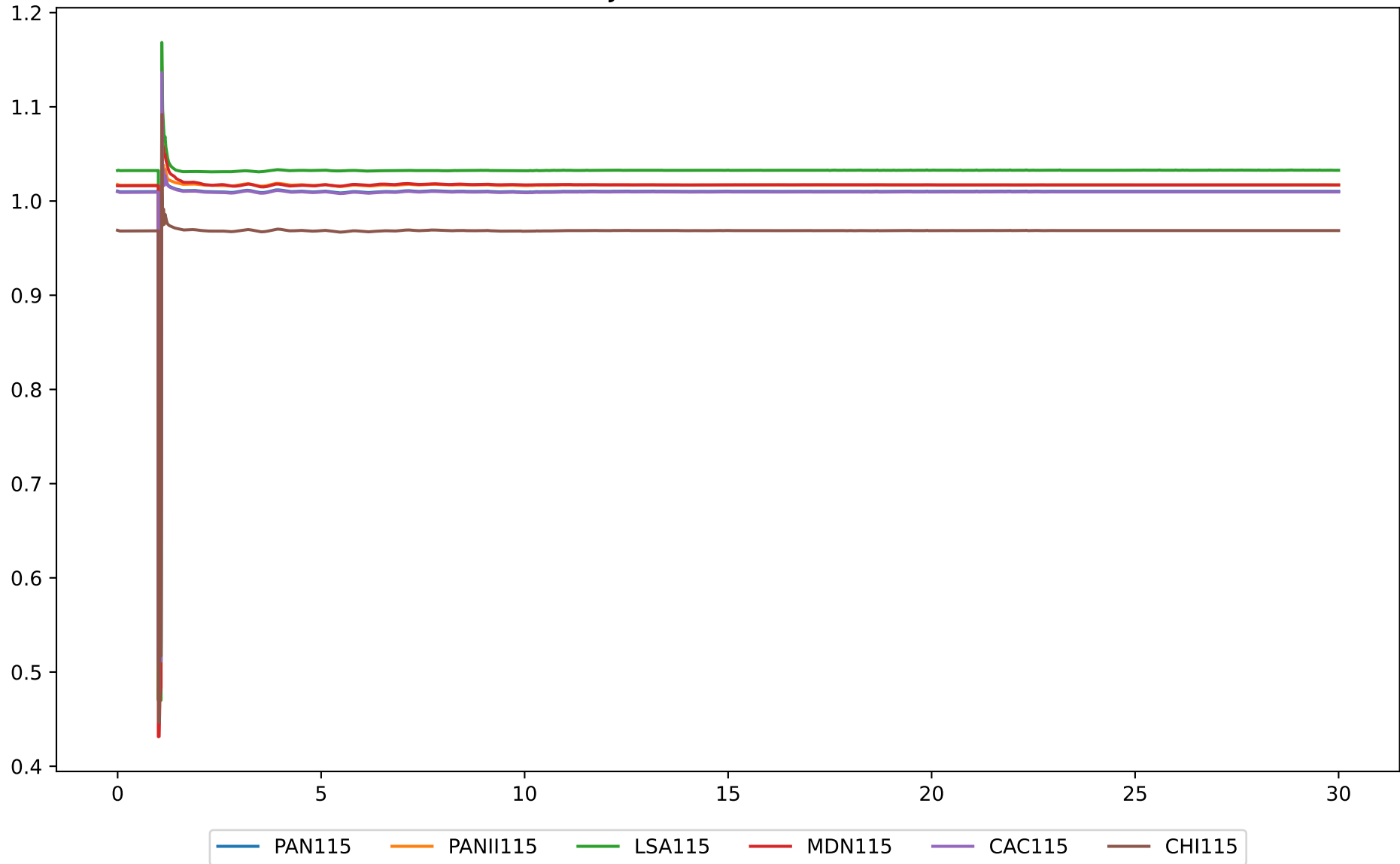
### Frecuencia (Hz)



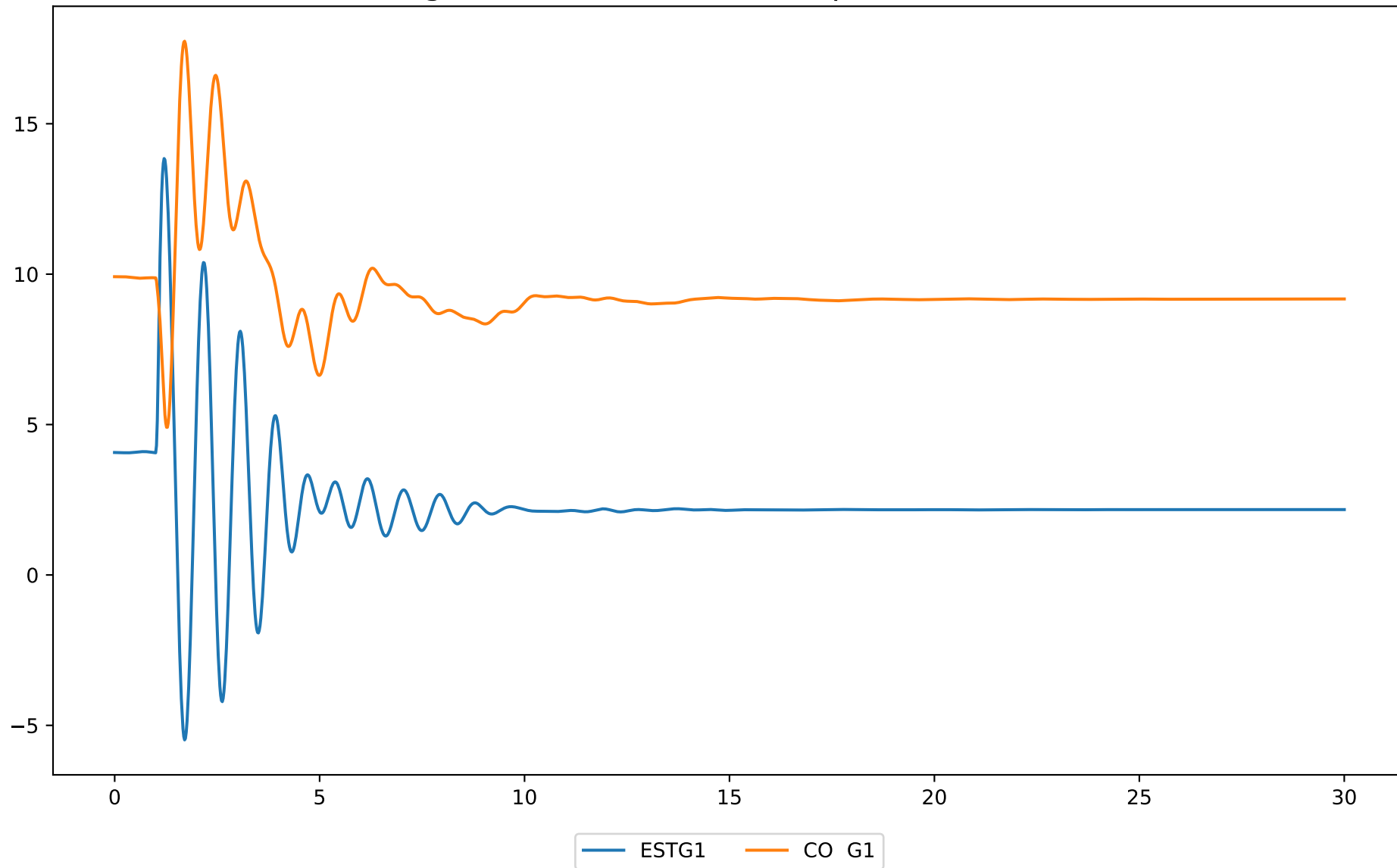
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

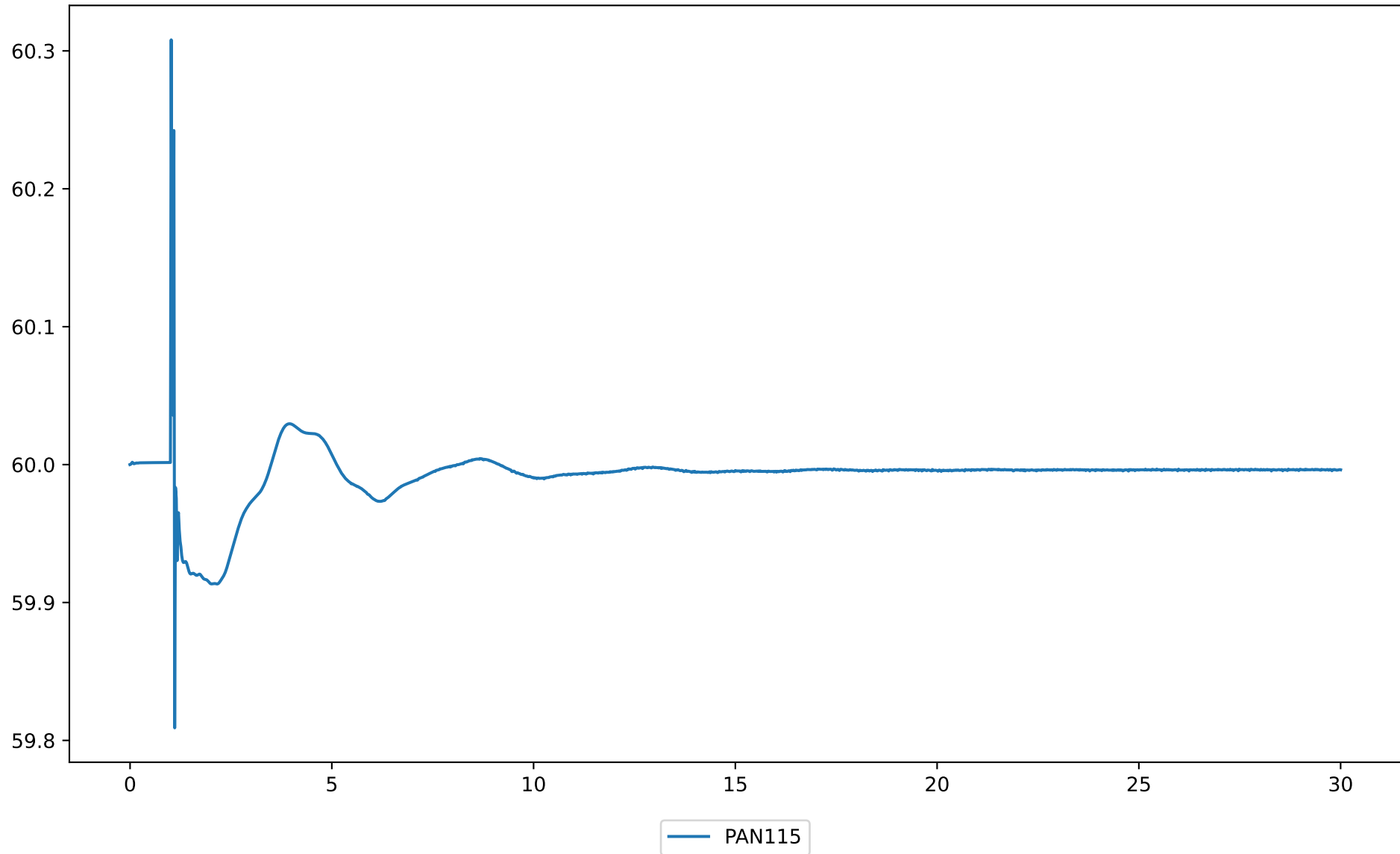


### Angulos de Rotacion de Maquinas - Panama

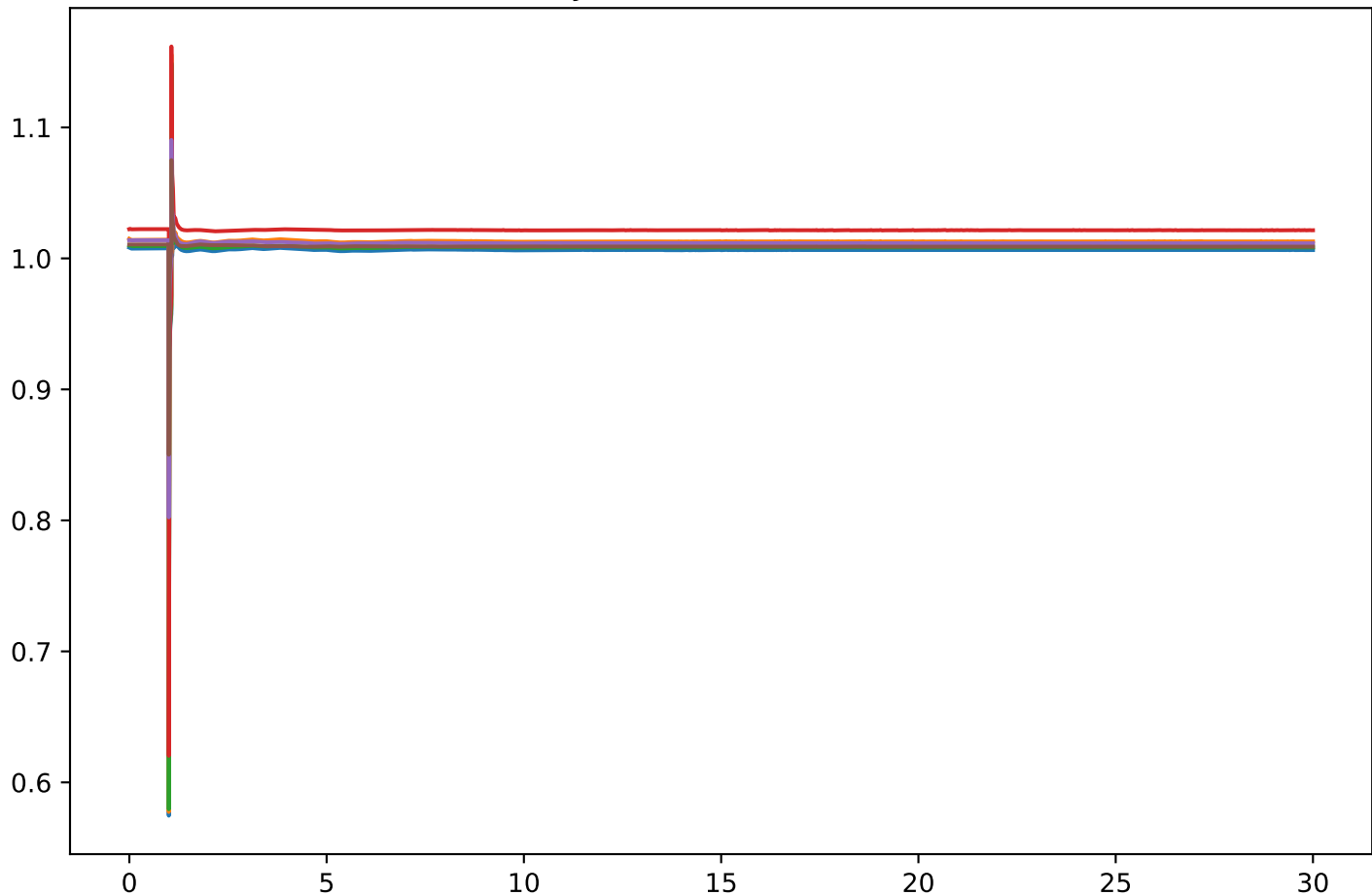


Caso: 1023-3-2031CA\_ModMax\_Lluv-500kV - Contingencia: 6207-6460-T1-C6\_ECO-CSO1

### Frecuencia (Hz)

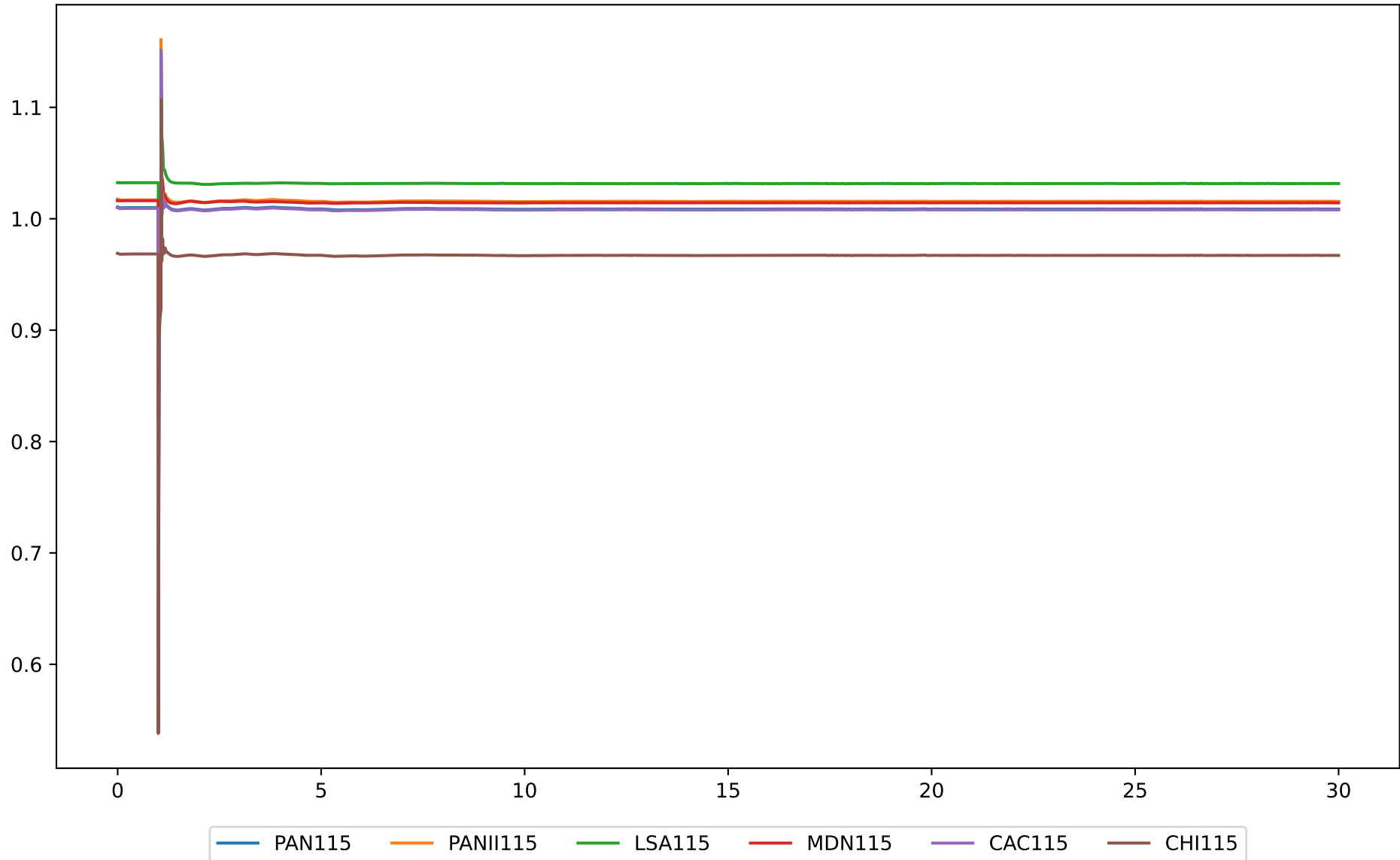


# Voltajes 230kV - Panama

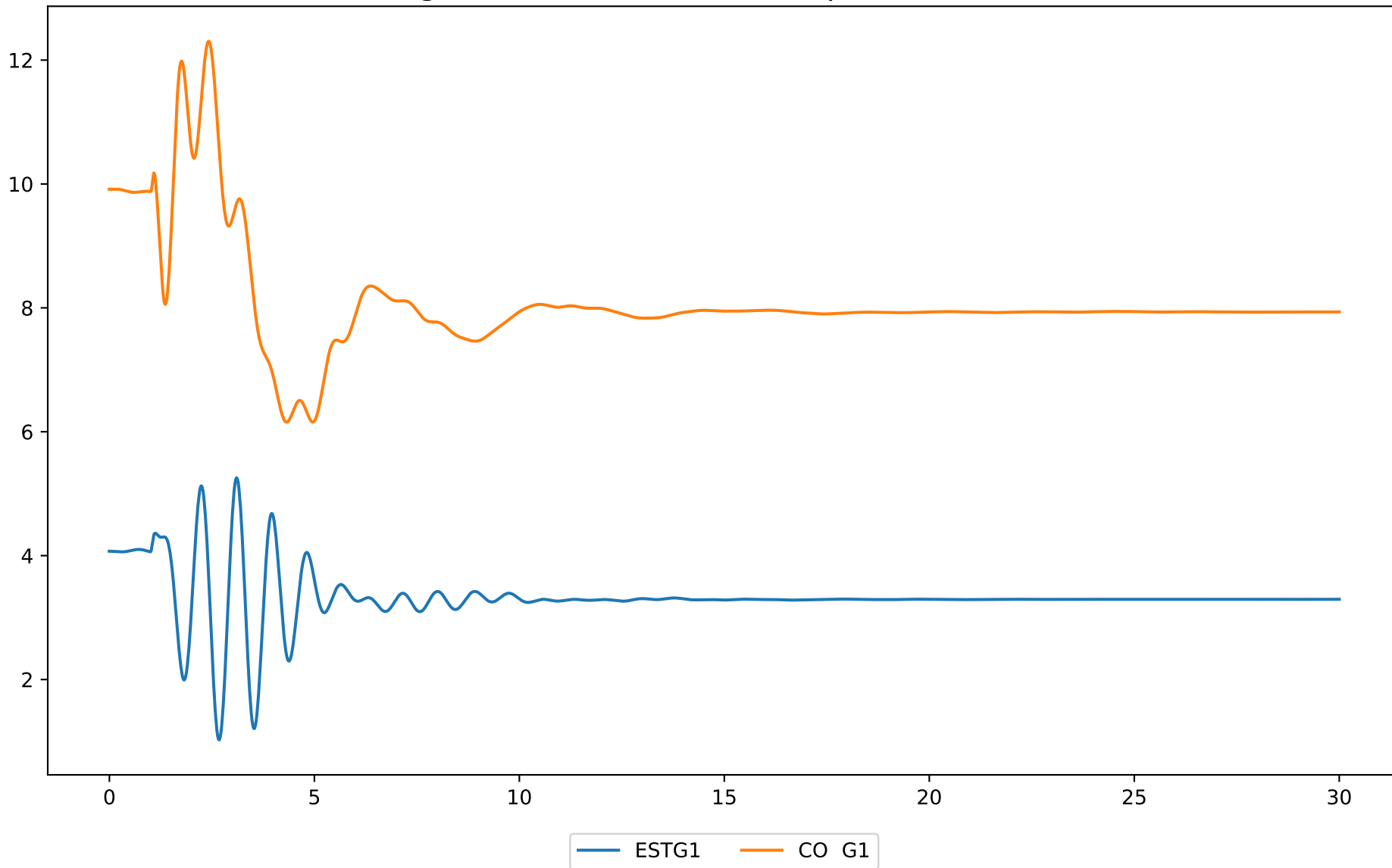




### Voltajes 115kV - Panama

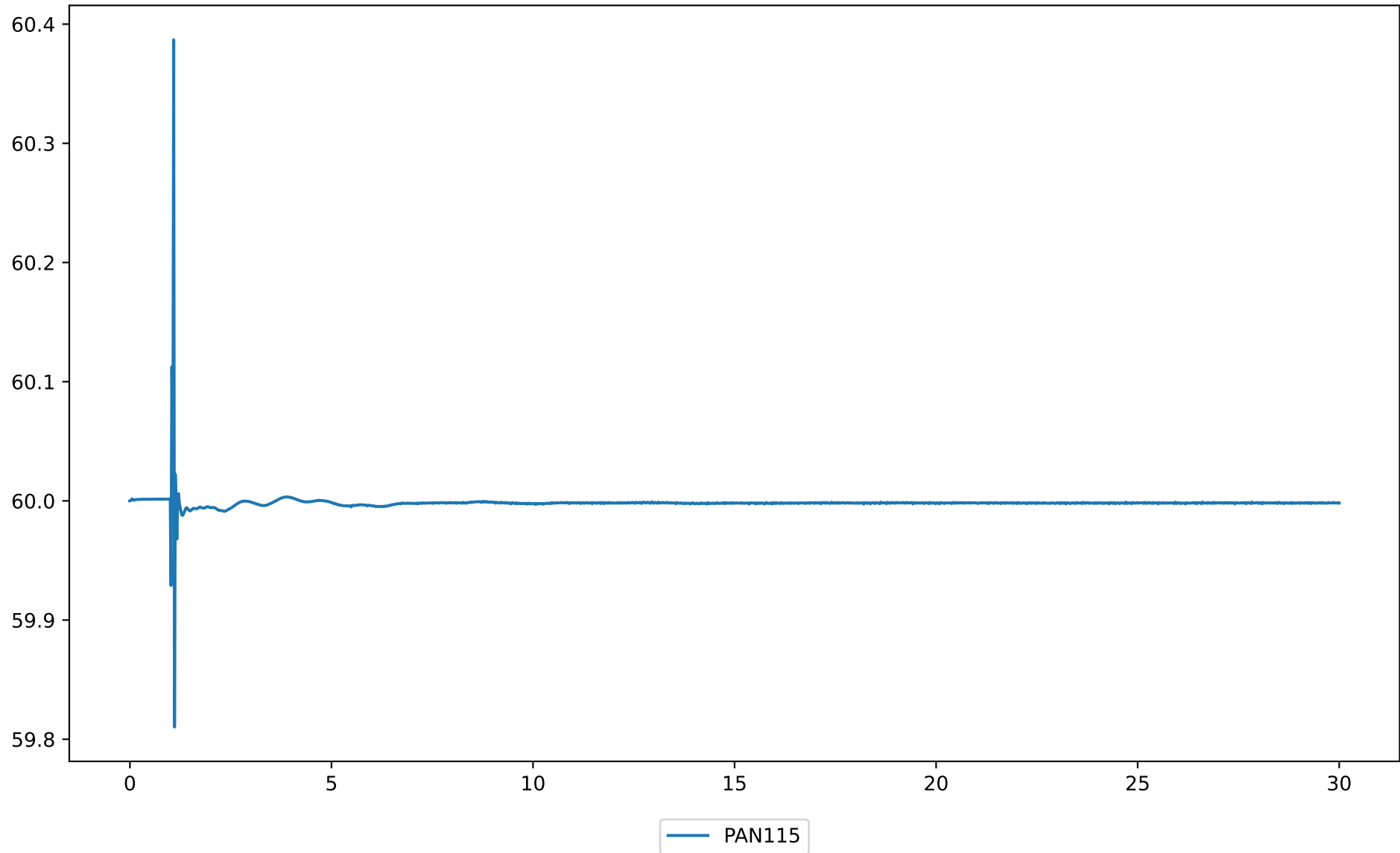


### Angulos de Rotacion de Maquinas - Panama

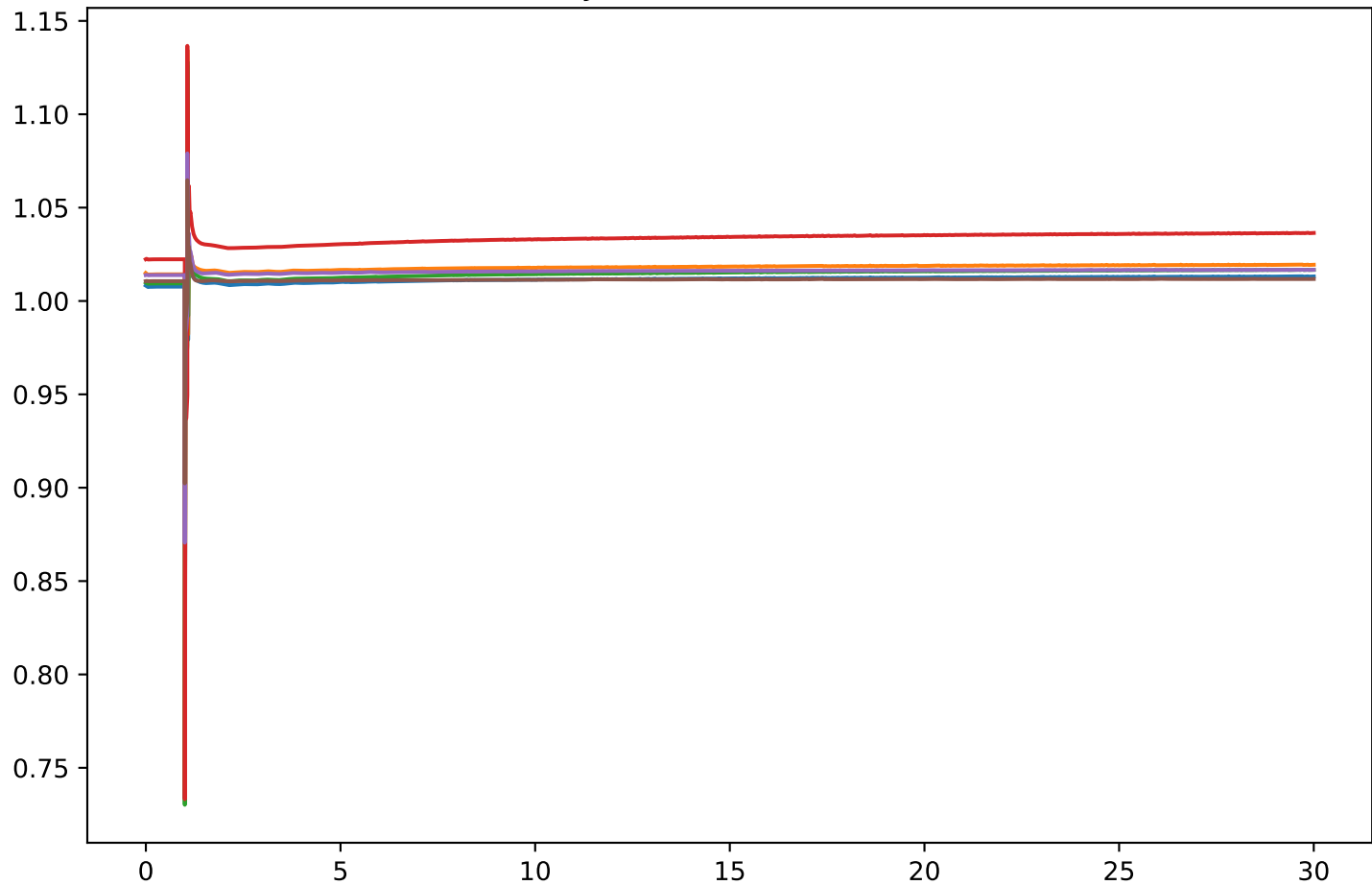


Caso: 1023-3-2031CA\_ModMax\_Lluv-500kV - Contingencia: 6812-6811-T4-C7\_STC-LSA

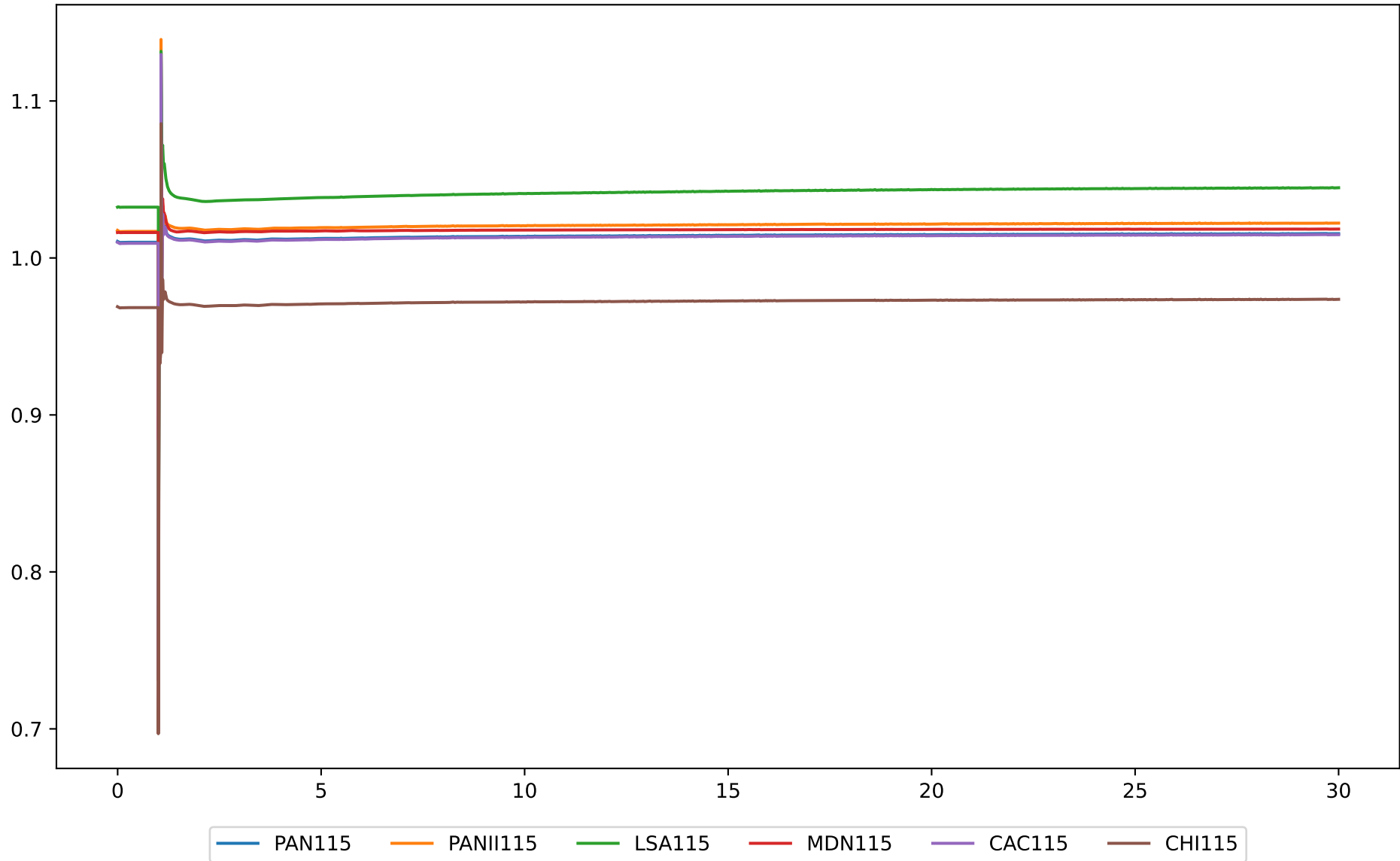
### Frecuencia (Hz)



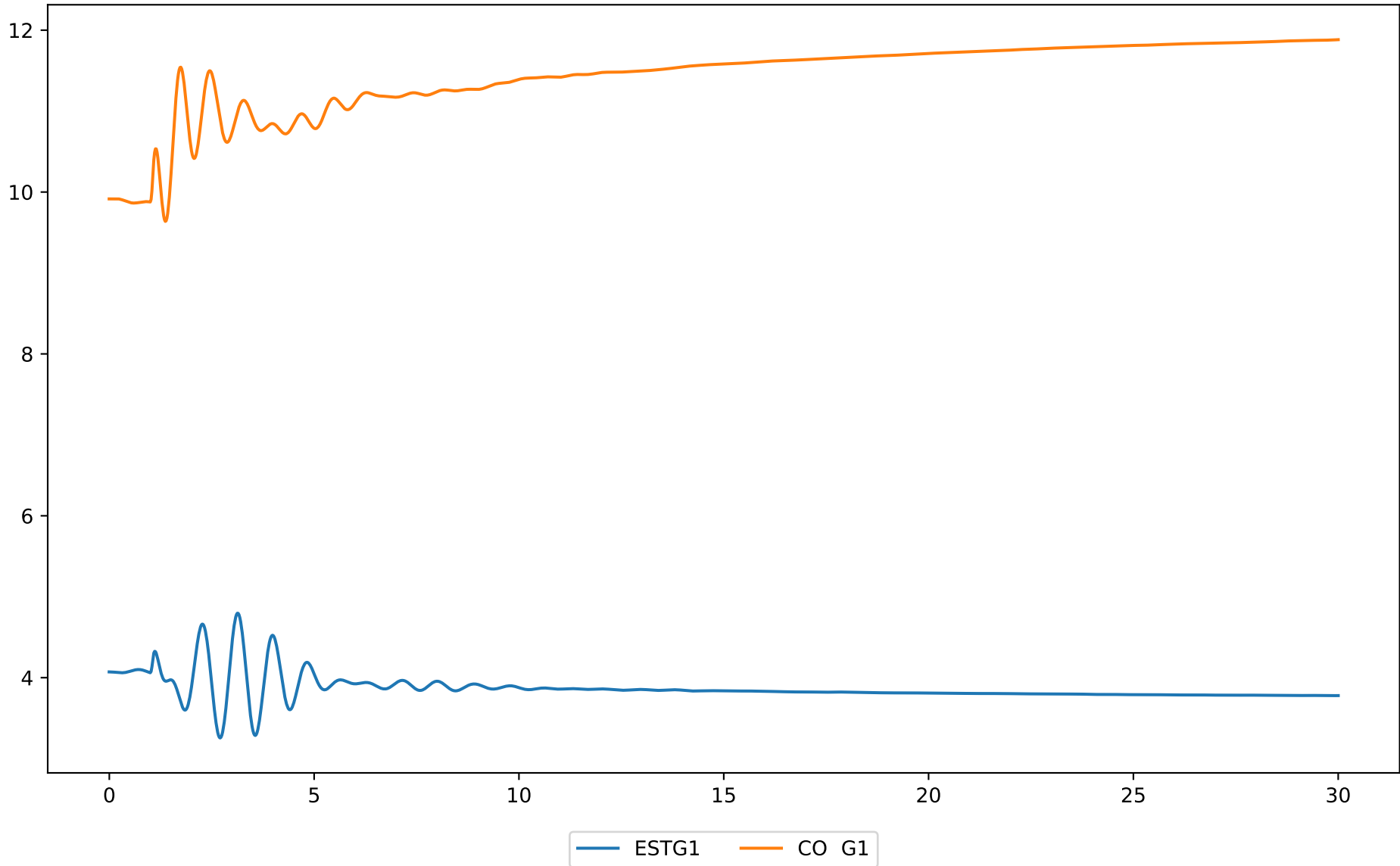
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

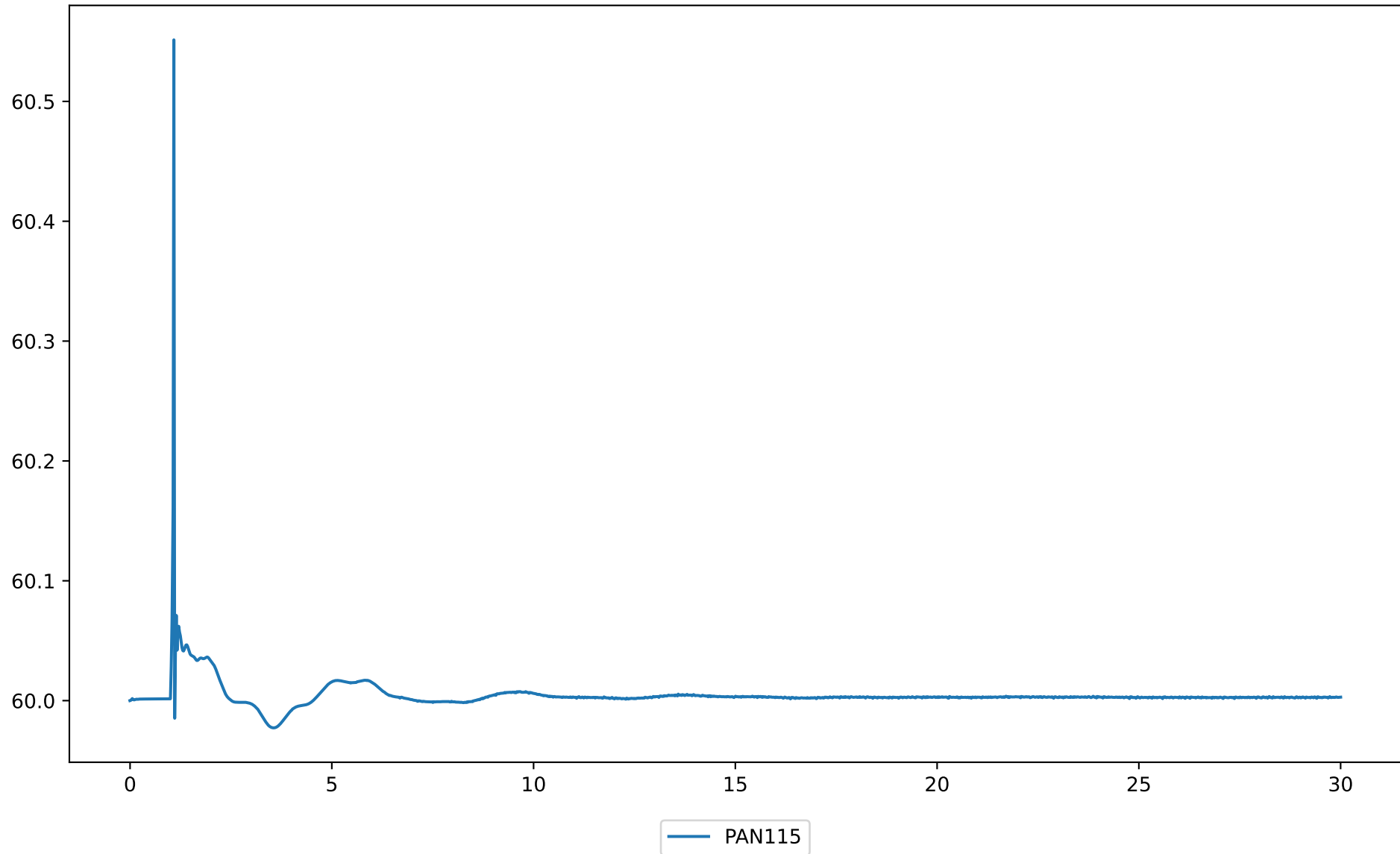


### Angulos de Rotacion de Maquinas - Panama

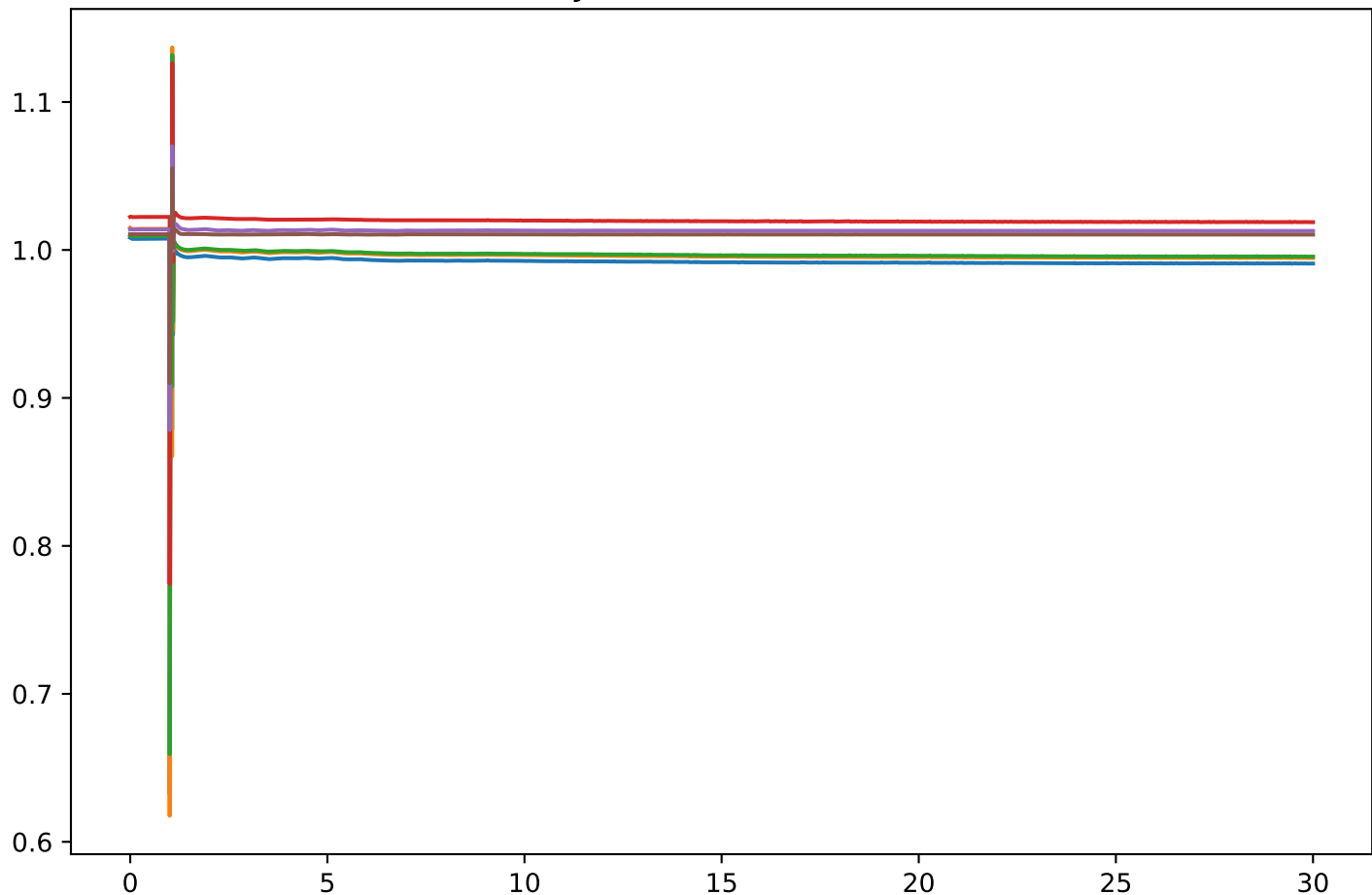


Caso: 1023-3-2031CA\_ModMax\_Lluv-500kV - Contingencia: 6817-6816-T4-C8\_STC-PANII

### Frecuencia (Hz)

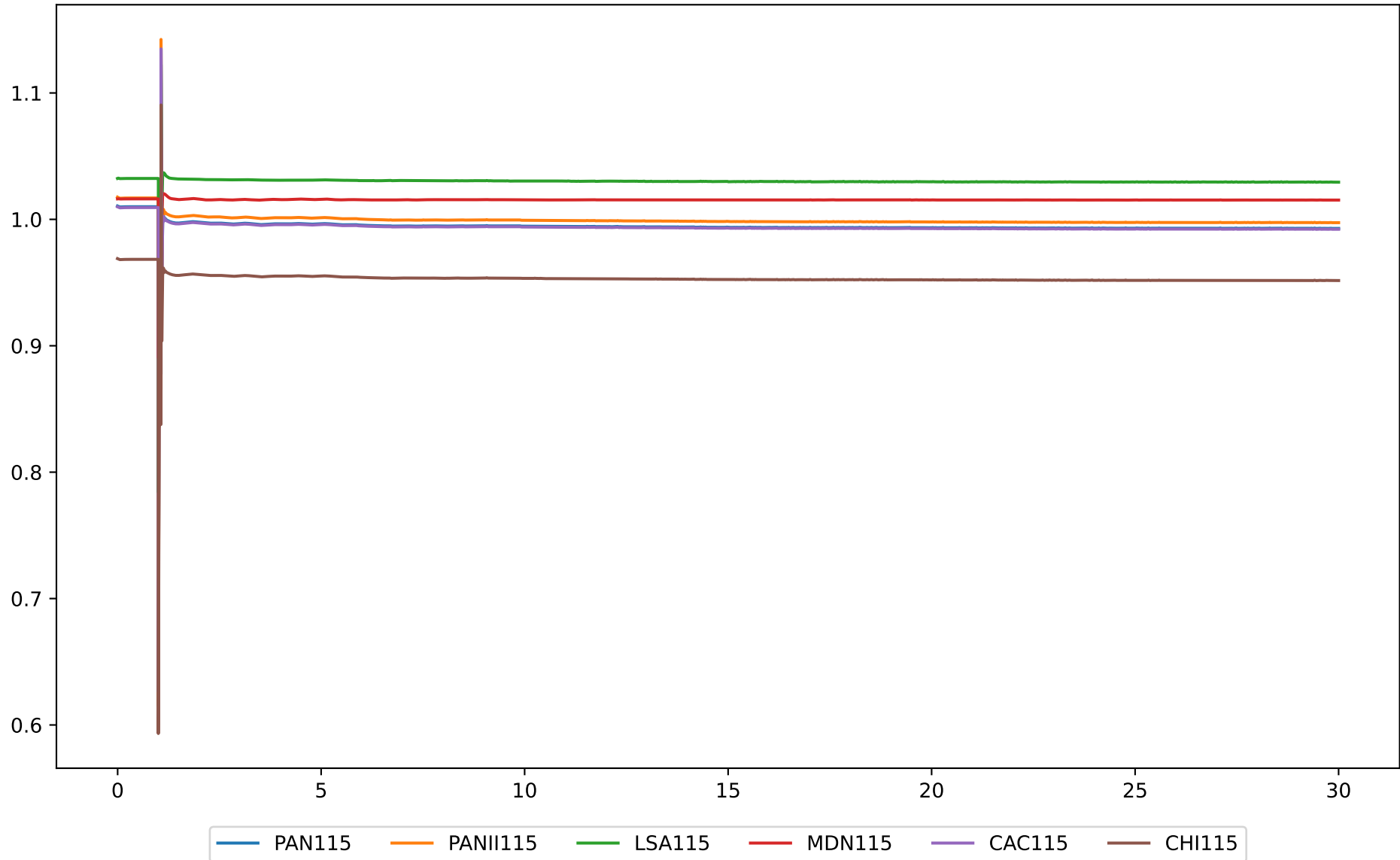


# Voltajes 230kV - Panama

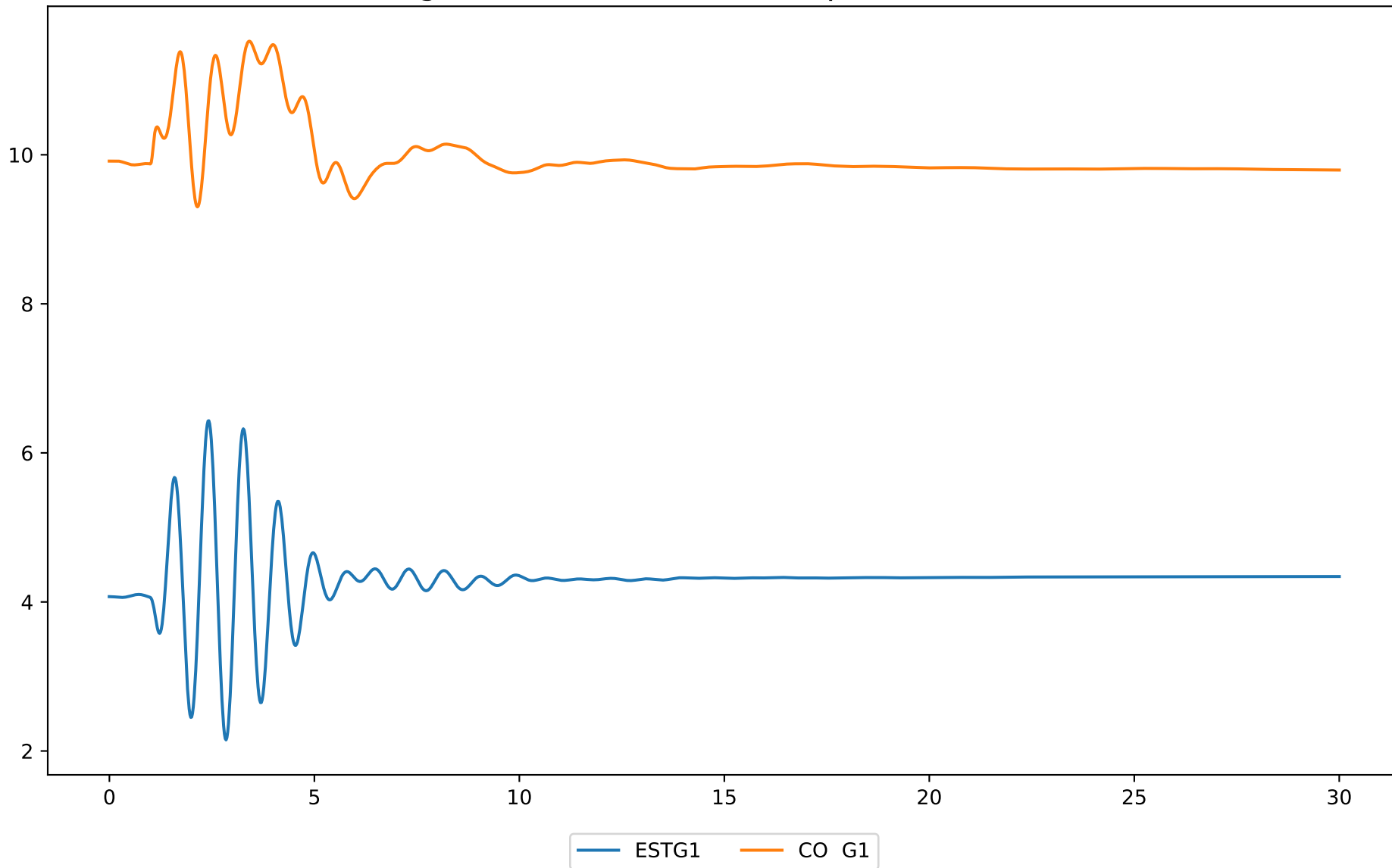




### Voltajes 115kV - Panama

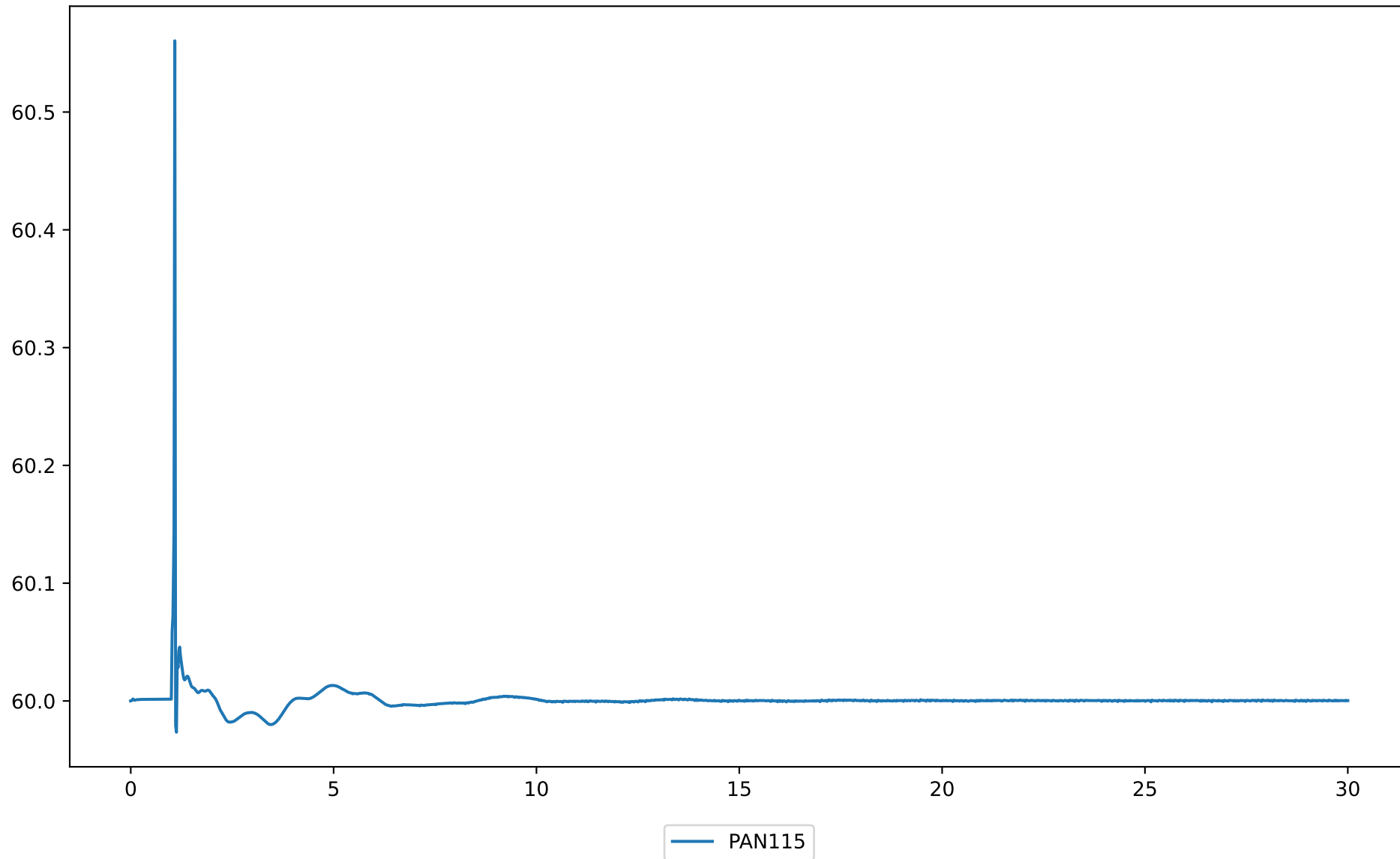


### Angulos de Rotacion de Maquinas - Panama

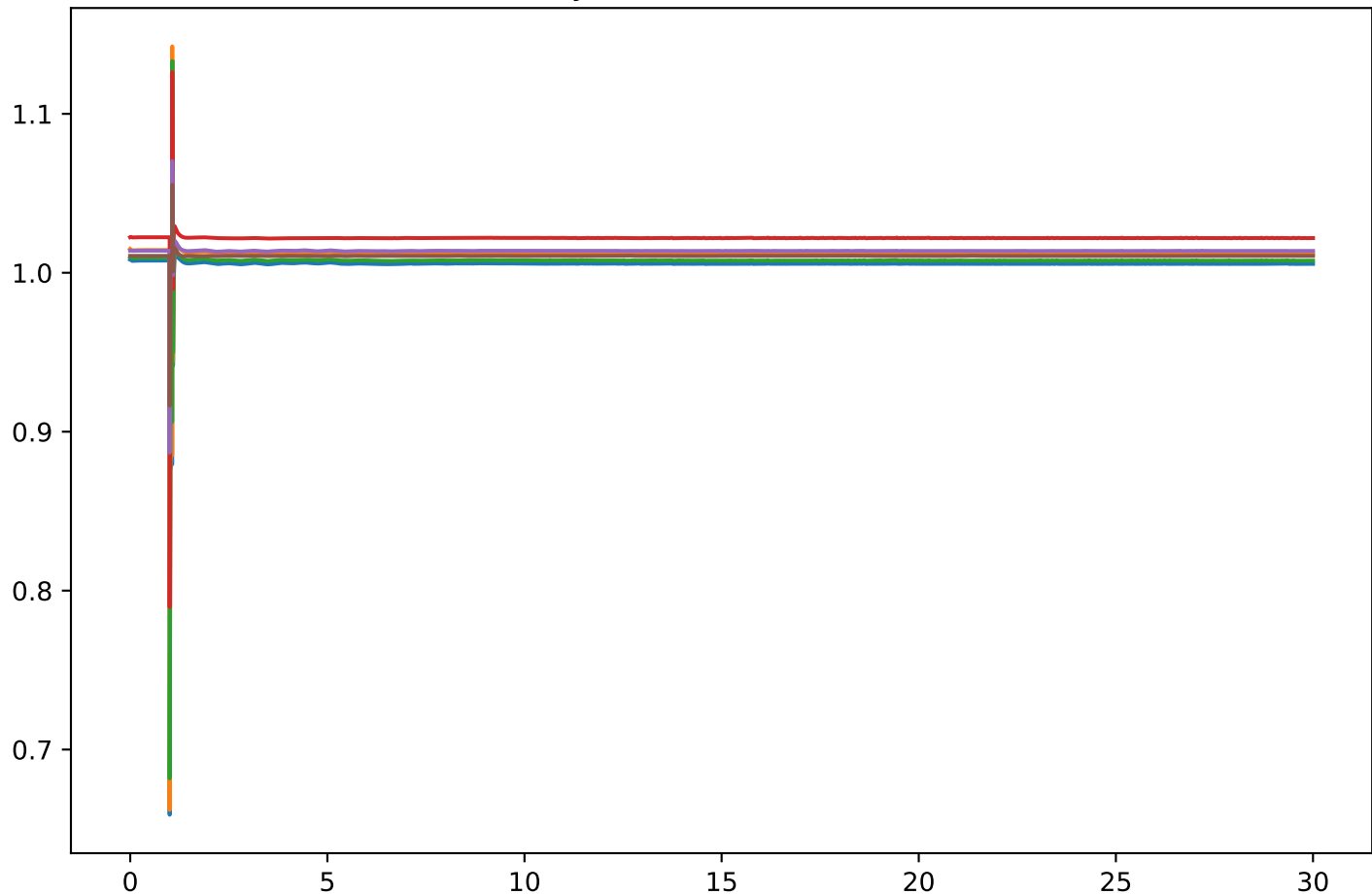


Caso: 1023-3-2031CA\_ModMax\_Lluv-500kV - Contingencia: 6820-6823-1-C9\_STC-PAN3

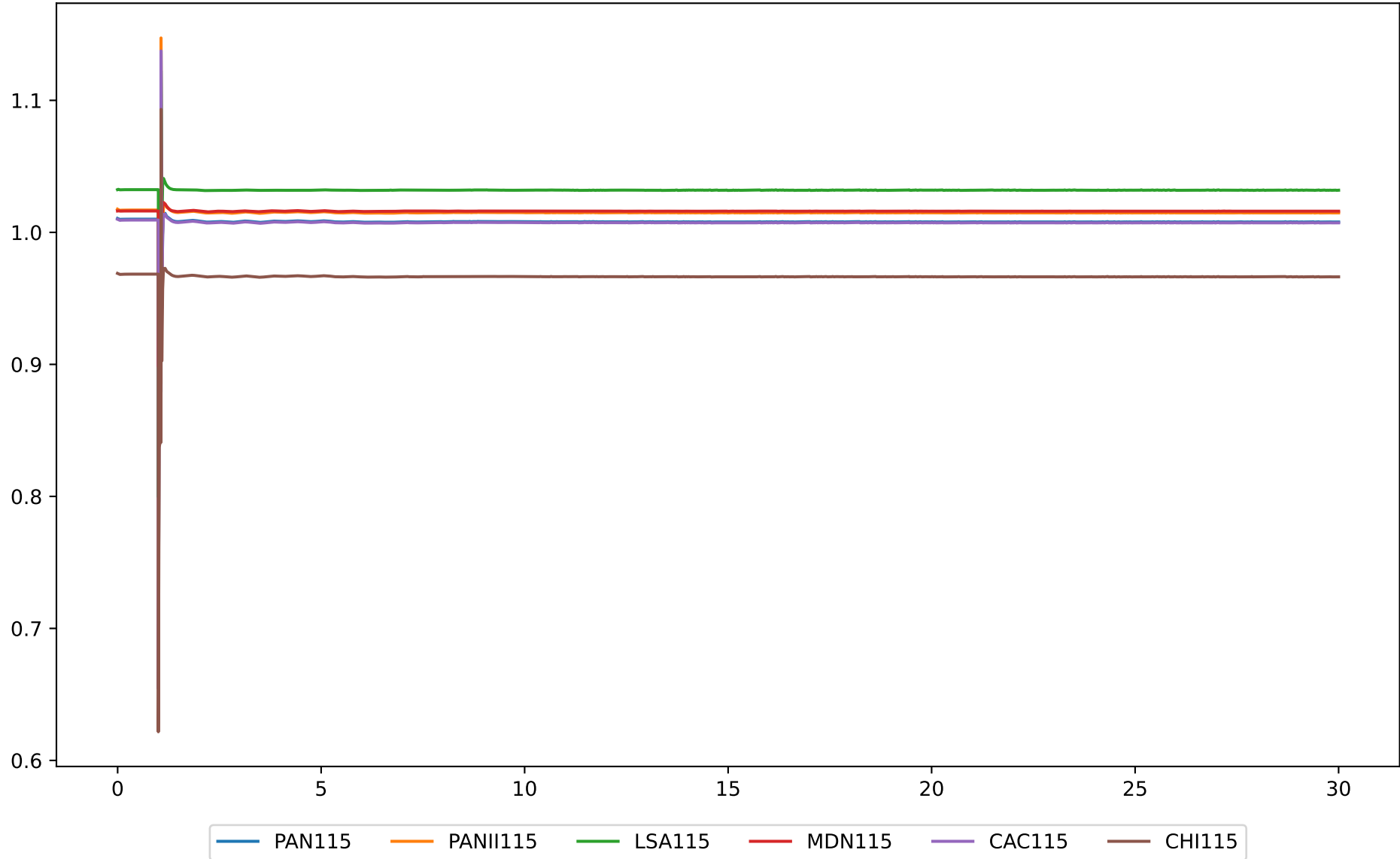
### Frecuencia (Hz)



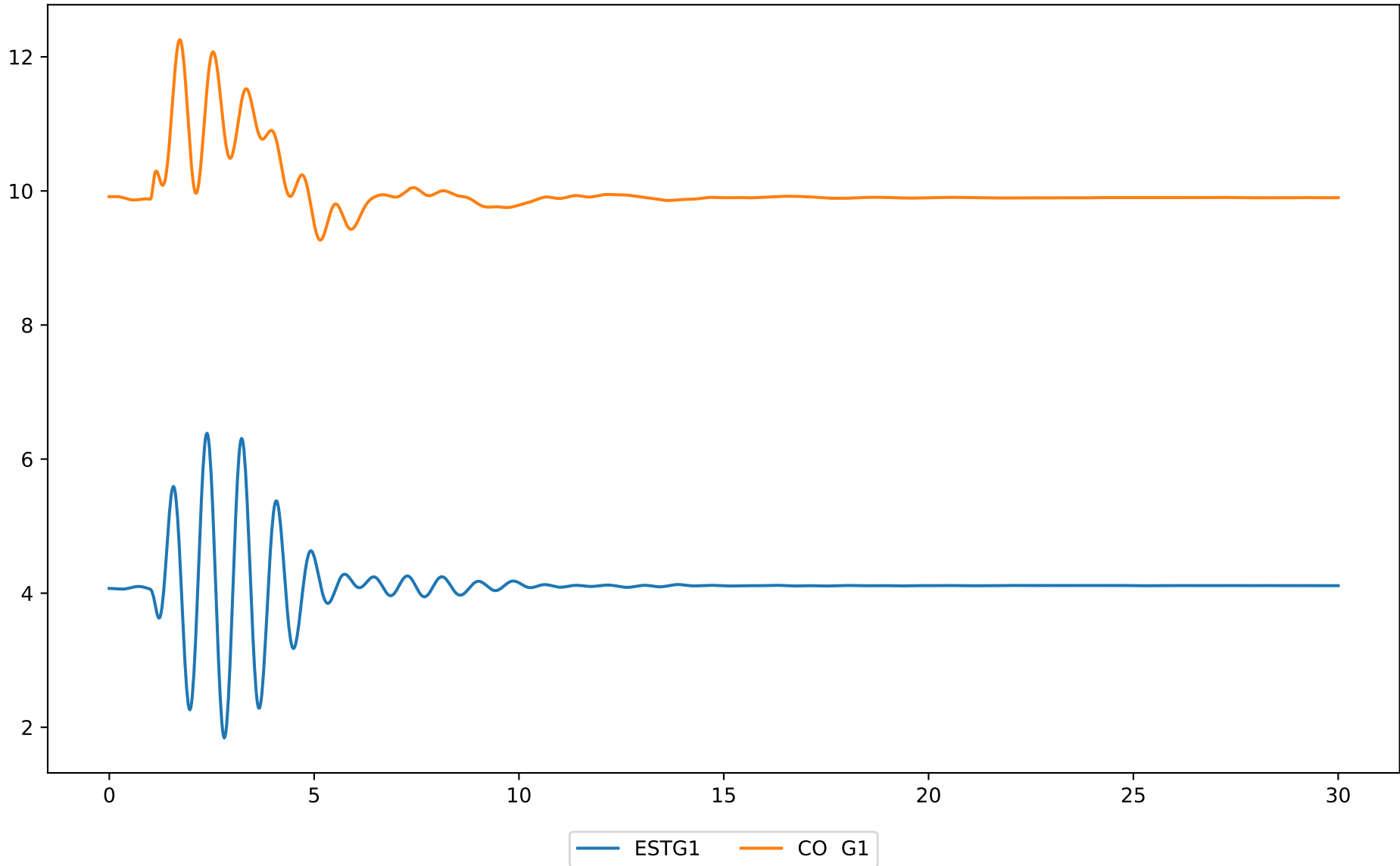
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama



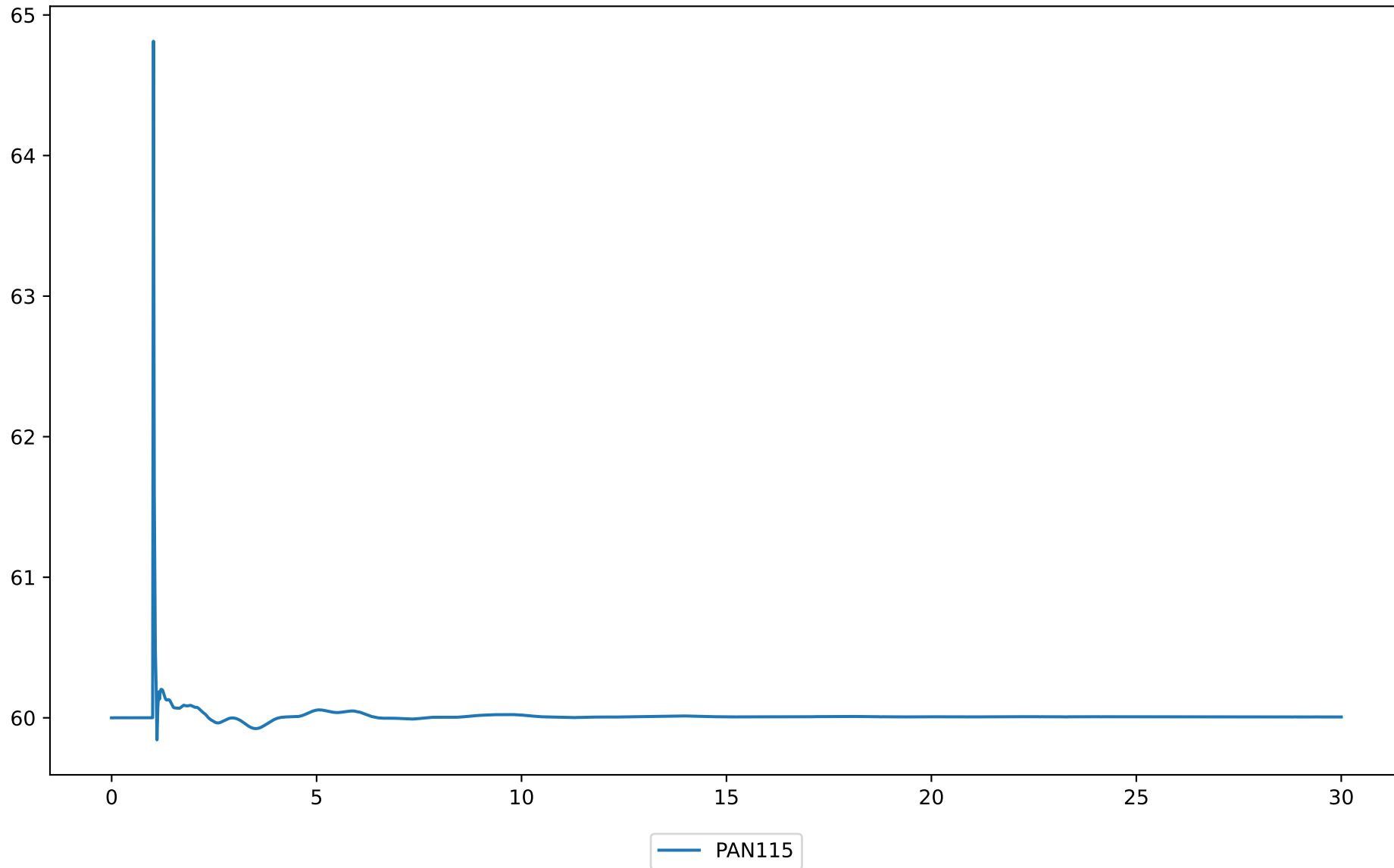
### Angulos de Rotacion de Maquinas - Panama



**2033 LLUVIOSA**

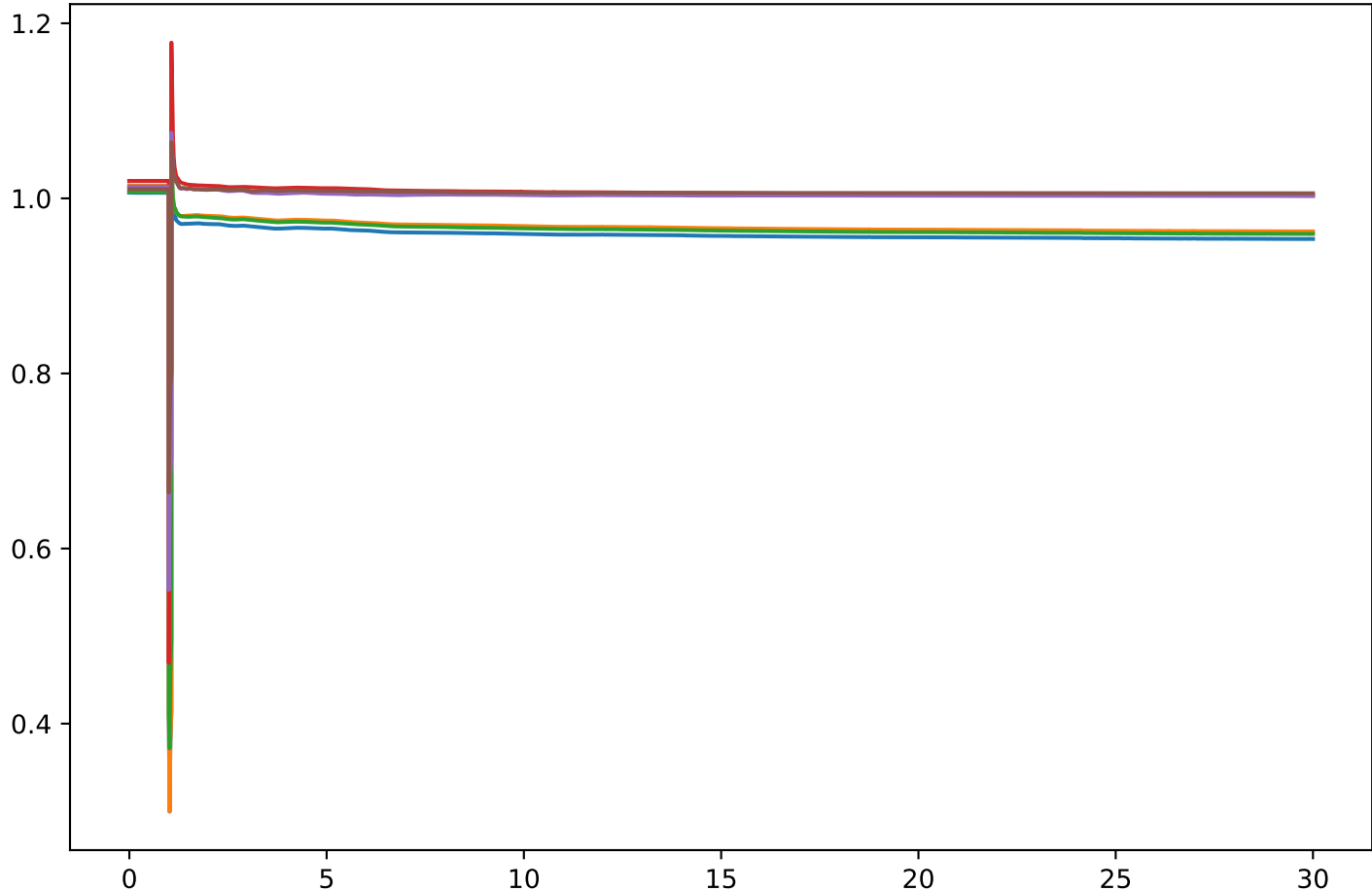
Caso: 1023-3-2033CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6851-6852-1-C1\_4LT500

### Frecuencia (Hz)



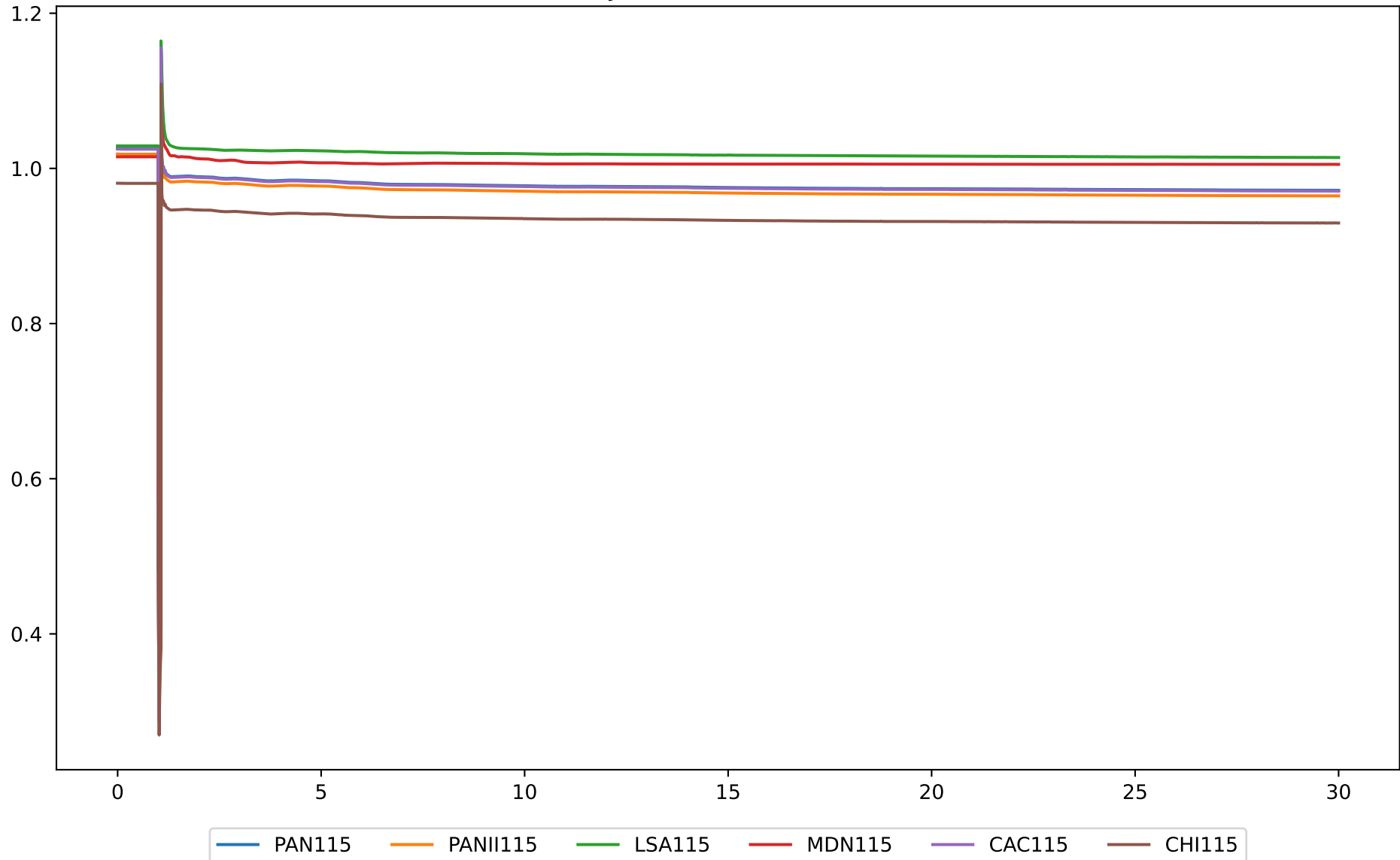


# Voltajes 230kV - Panama

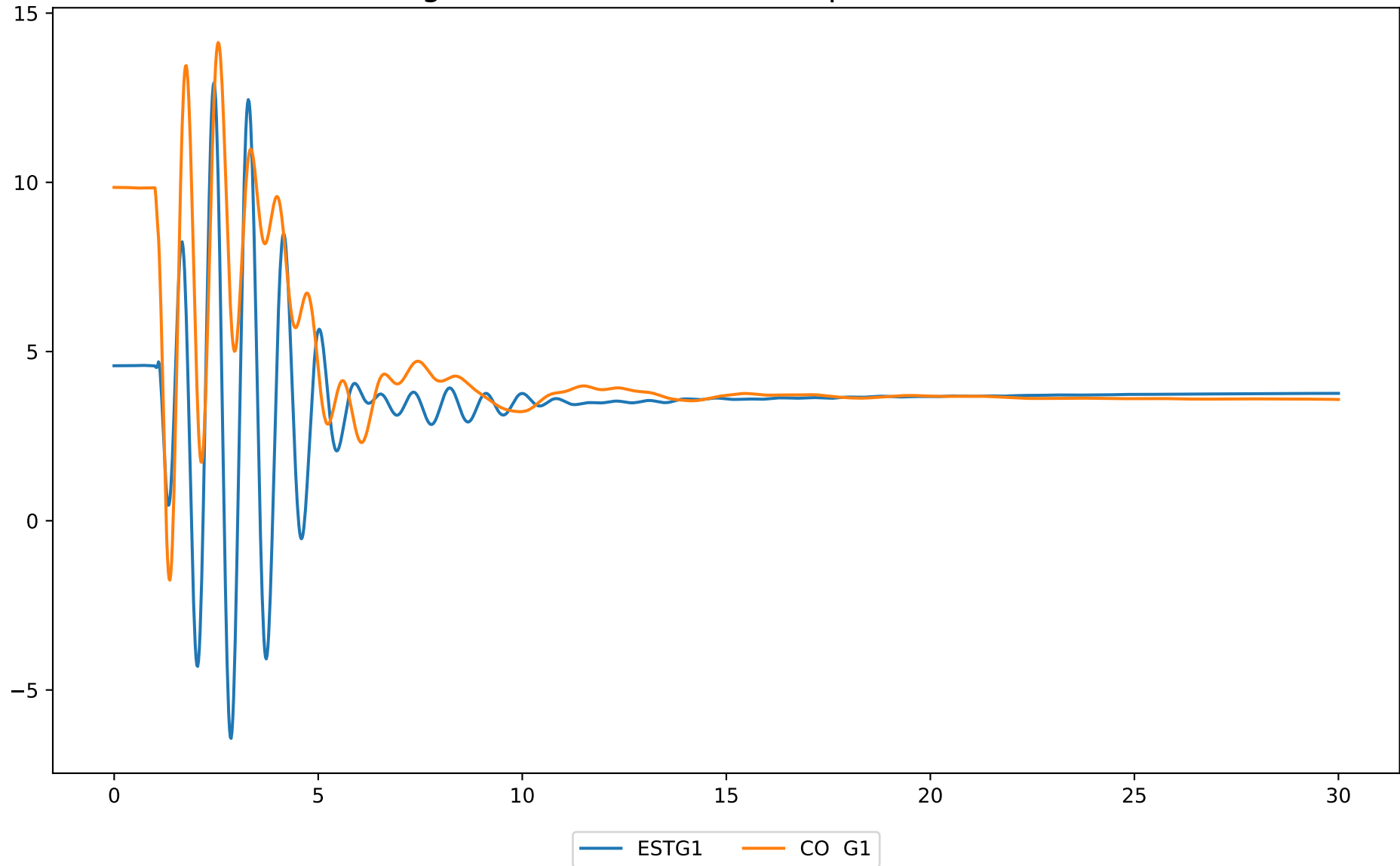


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama

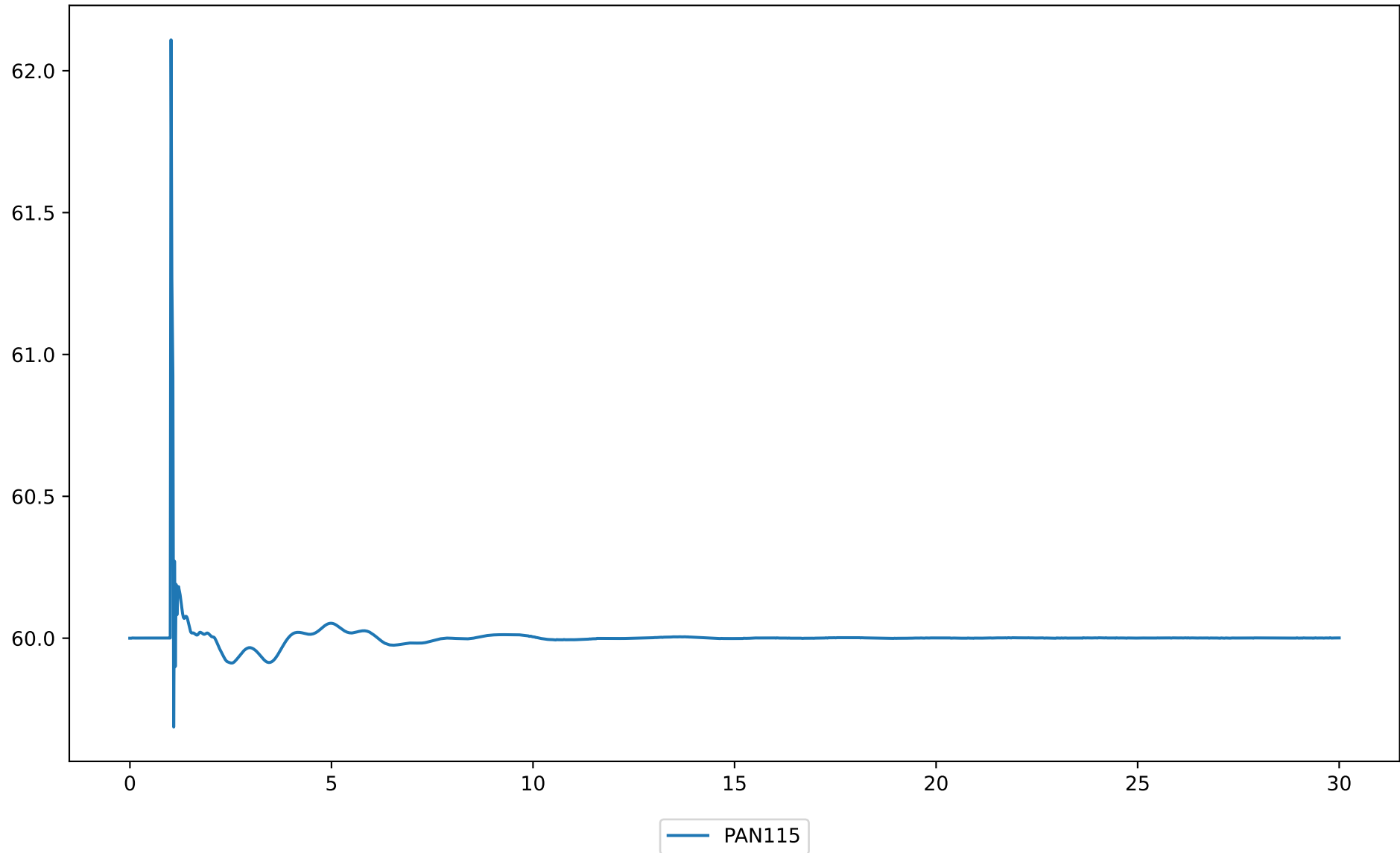


### Angulos de Rotacion de Maquinas - Panama

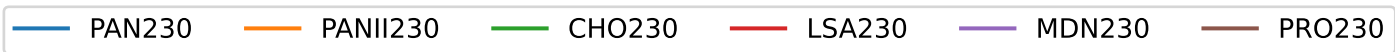
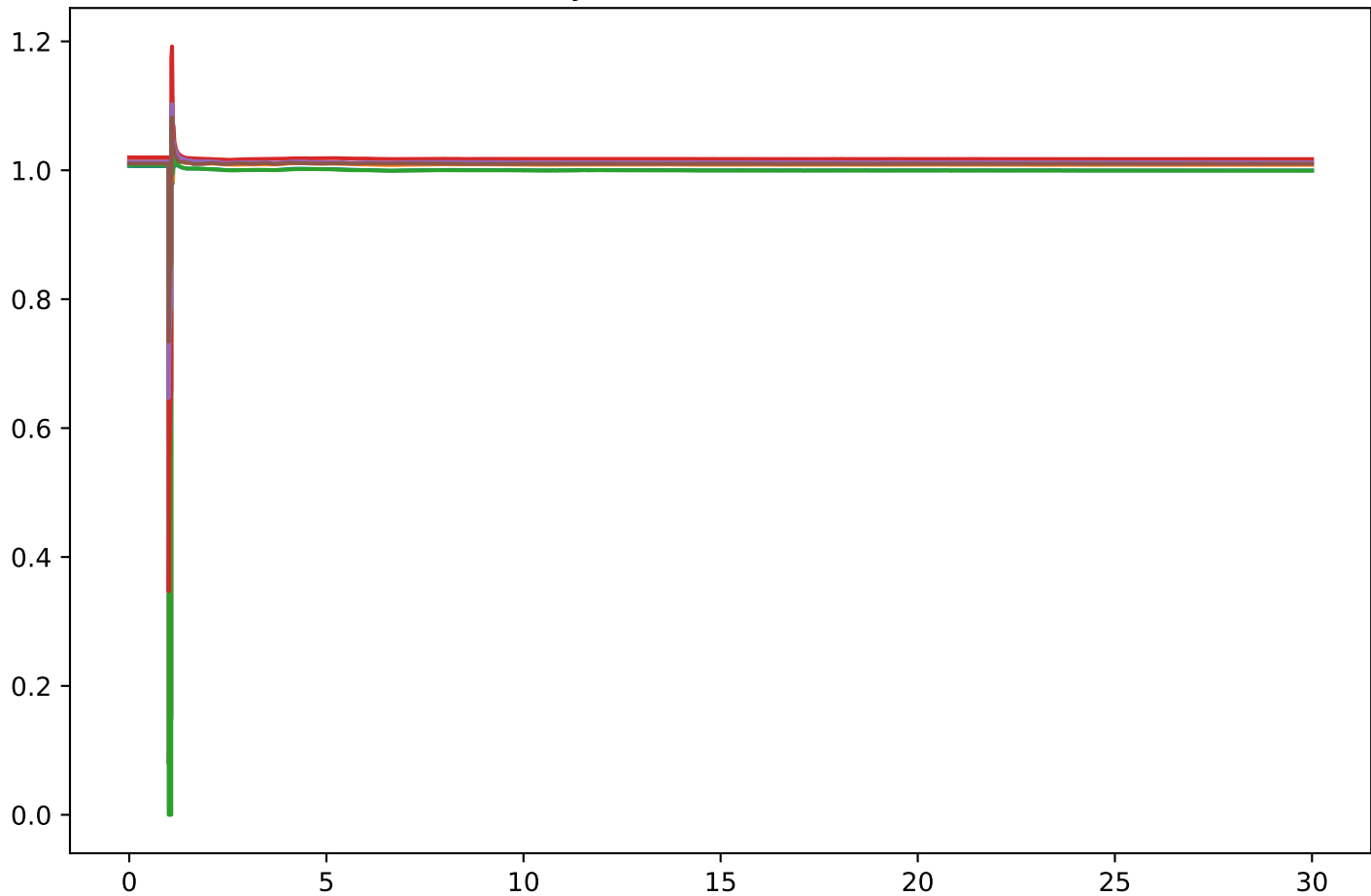


Caso: 1023-3-2033CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6005-6596-0A-C2\_CHO-SCR

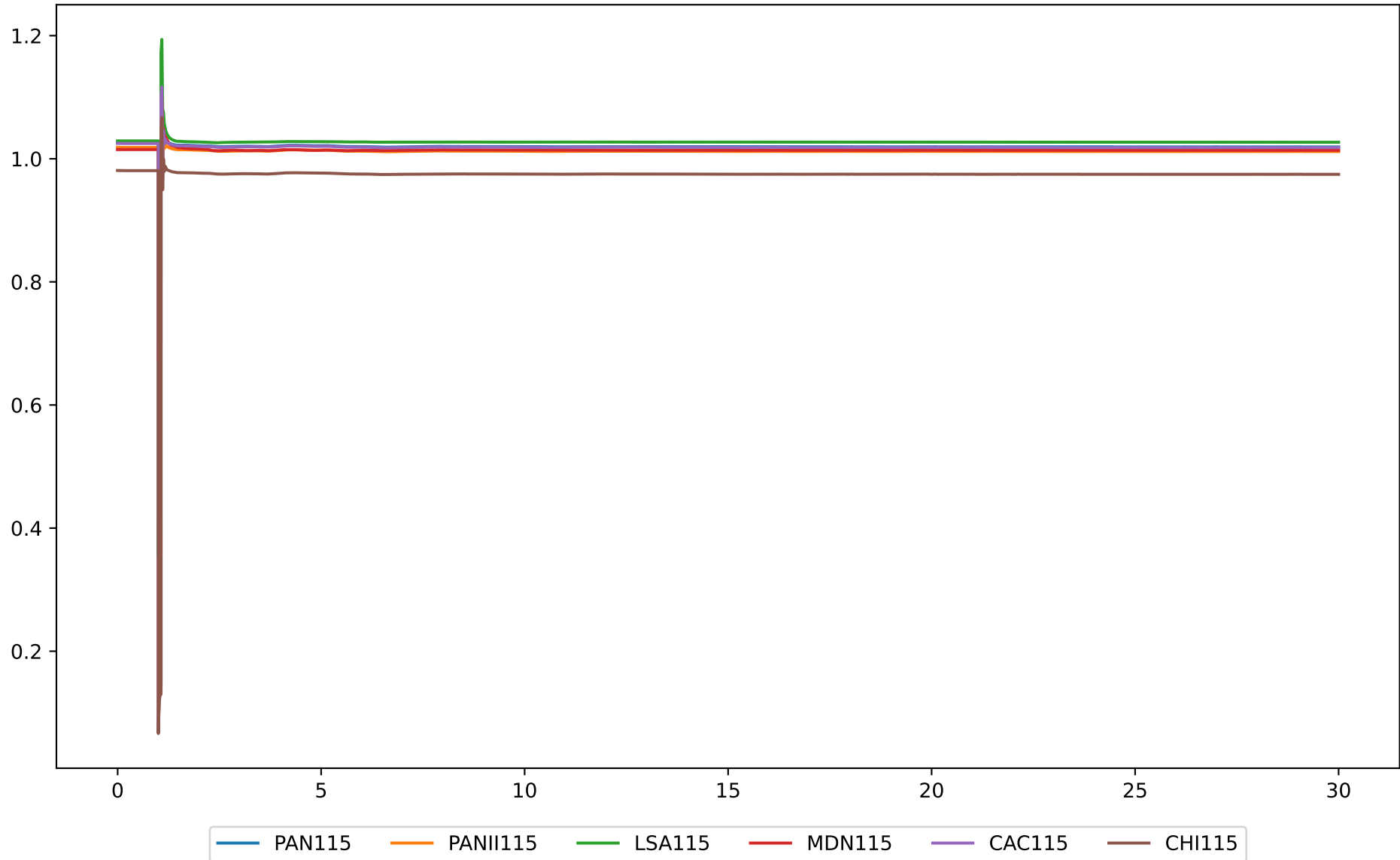
### Frecuencia (Hz)



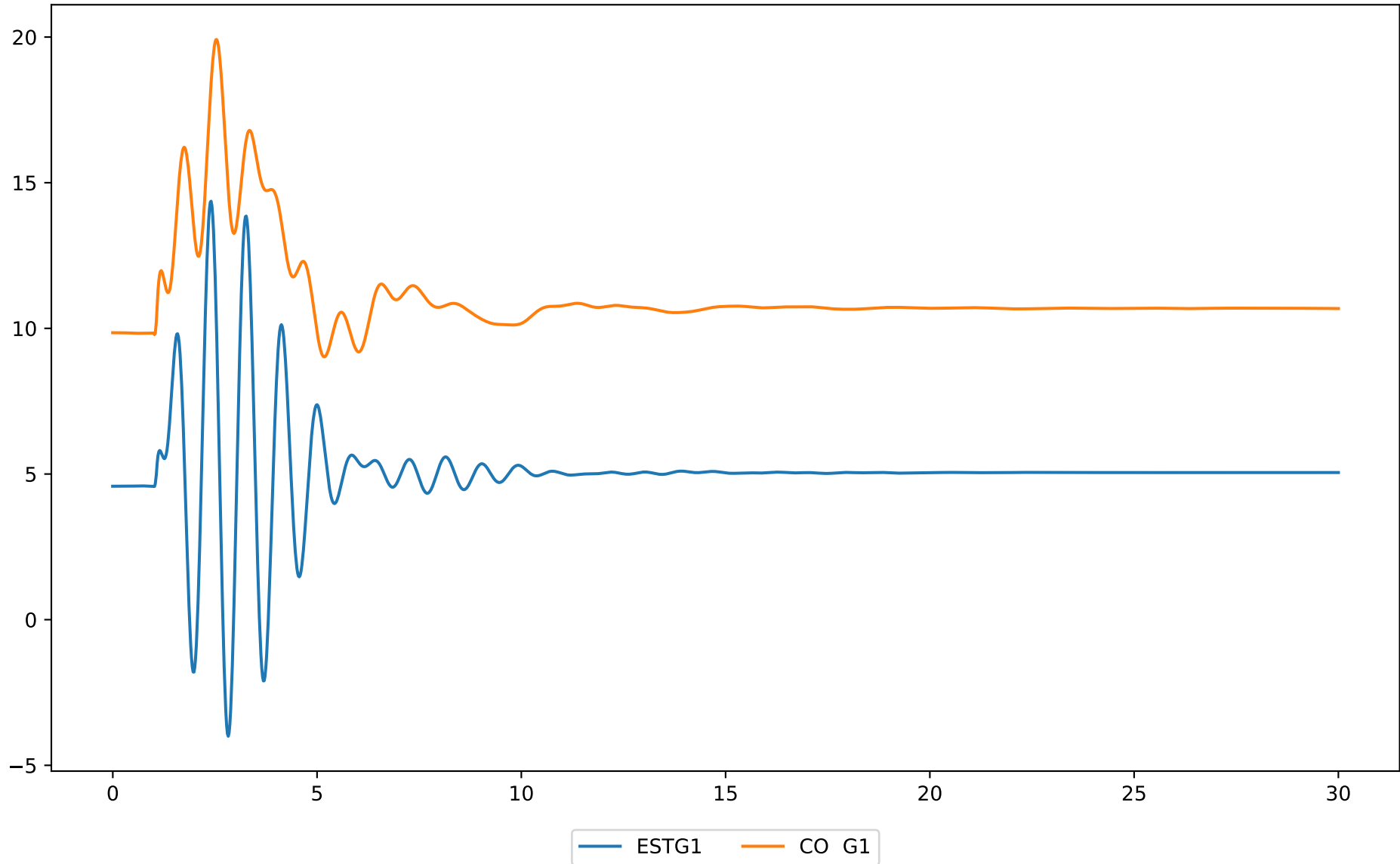
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

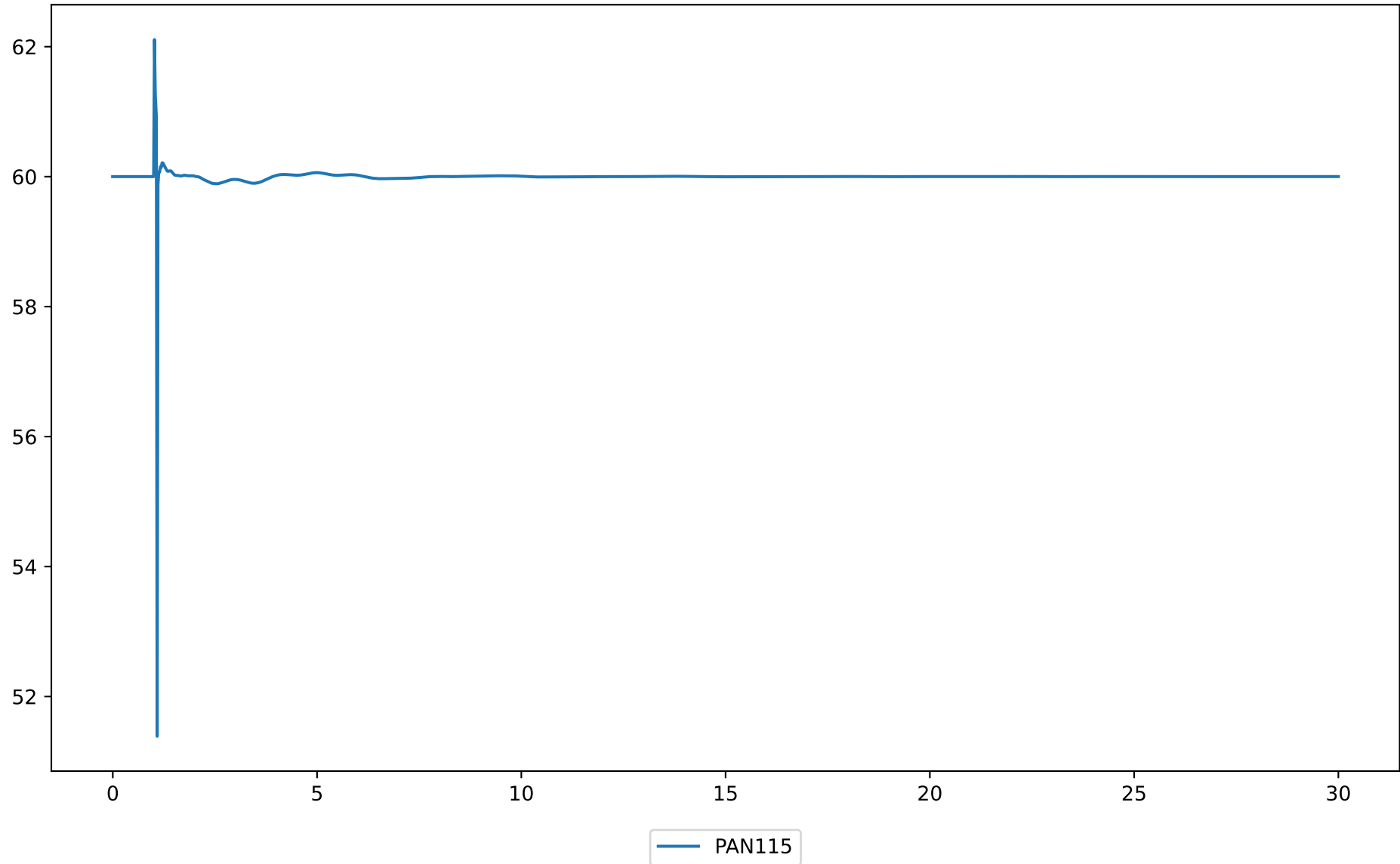


### Angulos de Rotacion de Maquinas - Panama



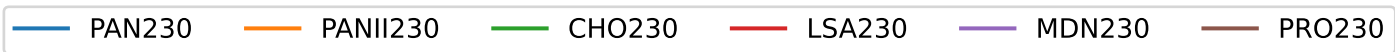
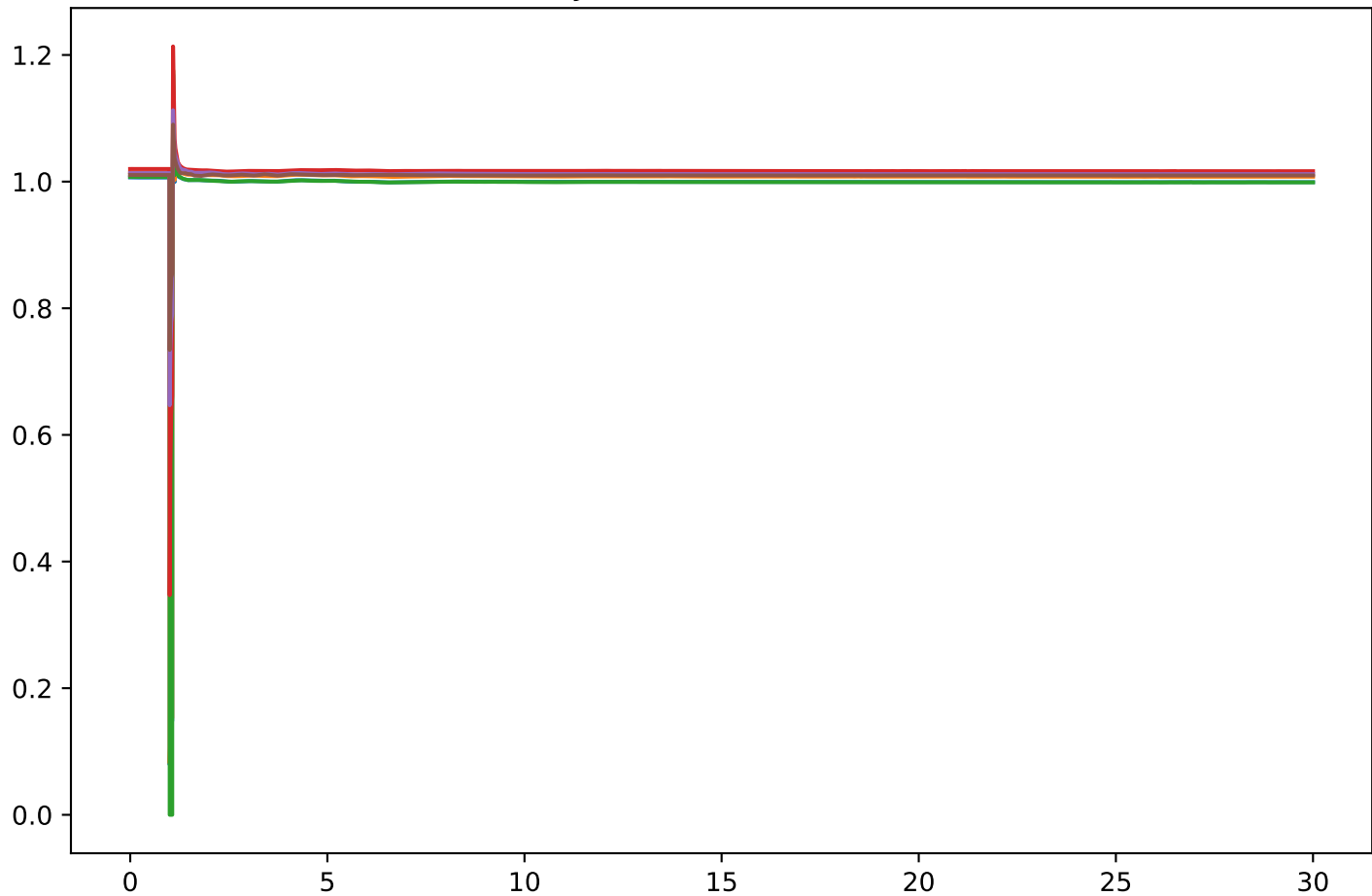
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### Frecuencia (Hz)

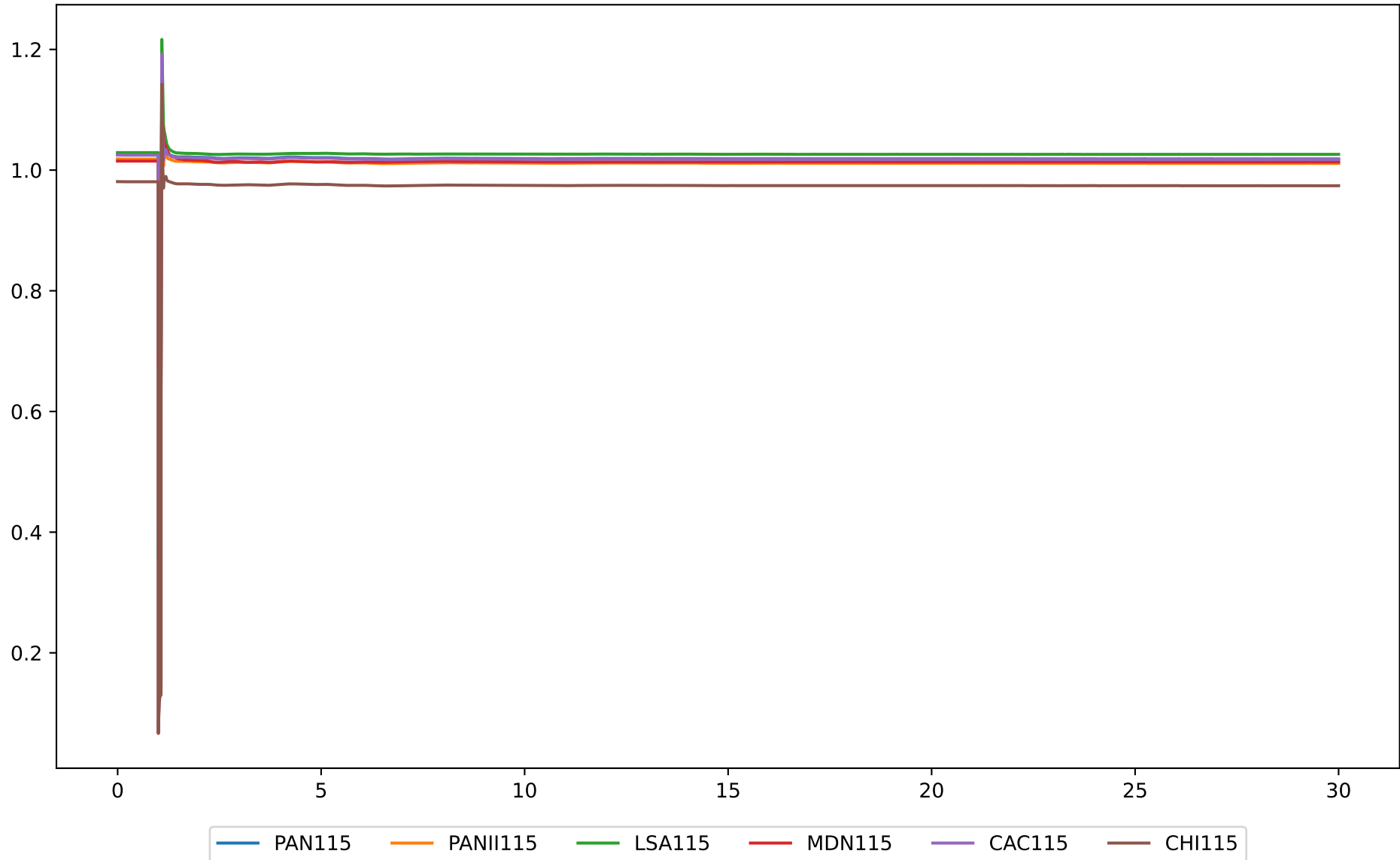




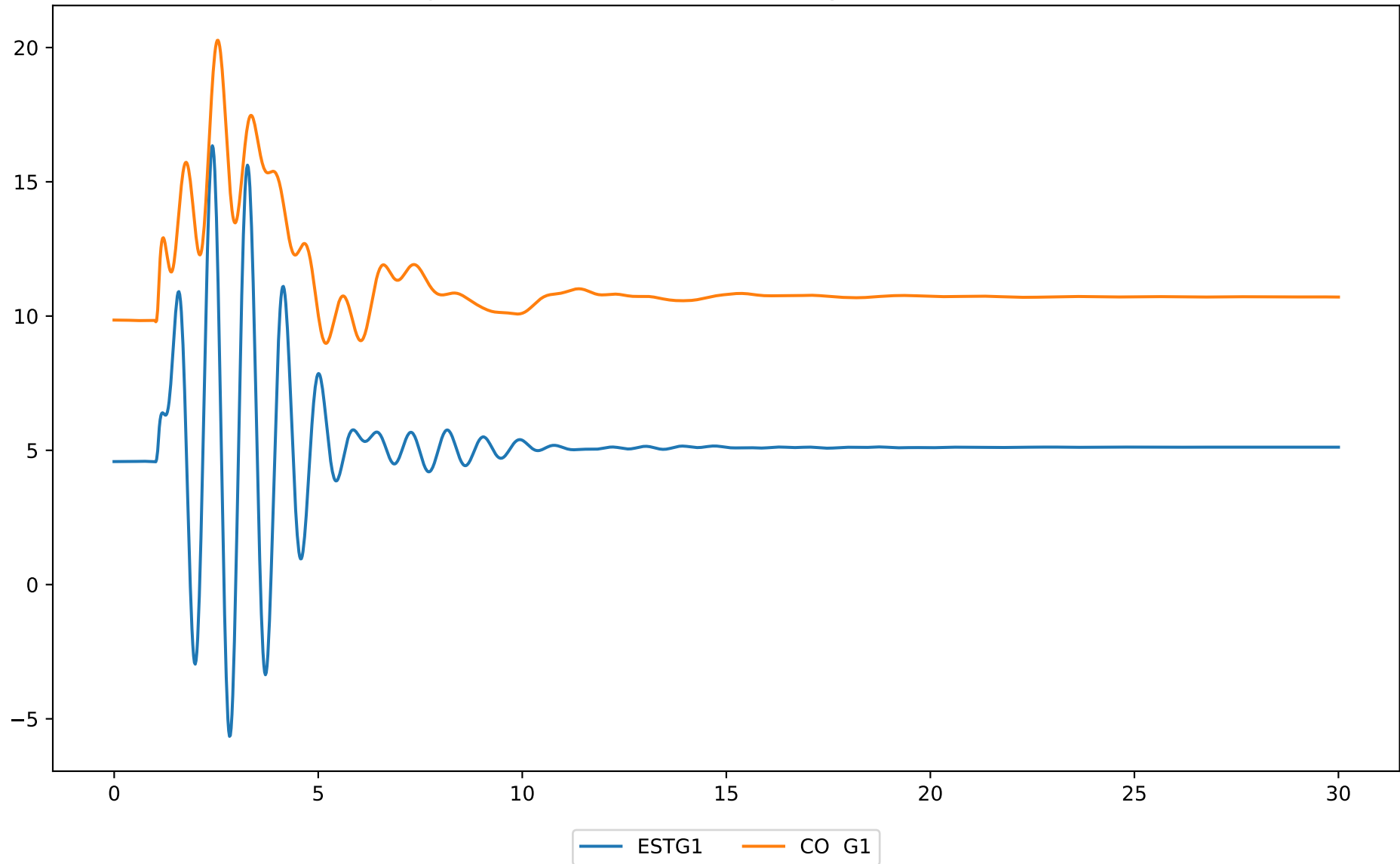
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

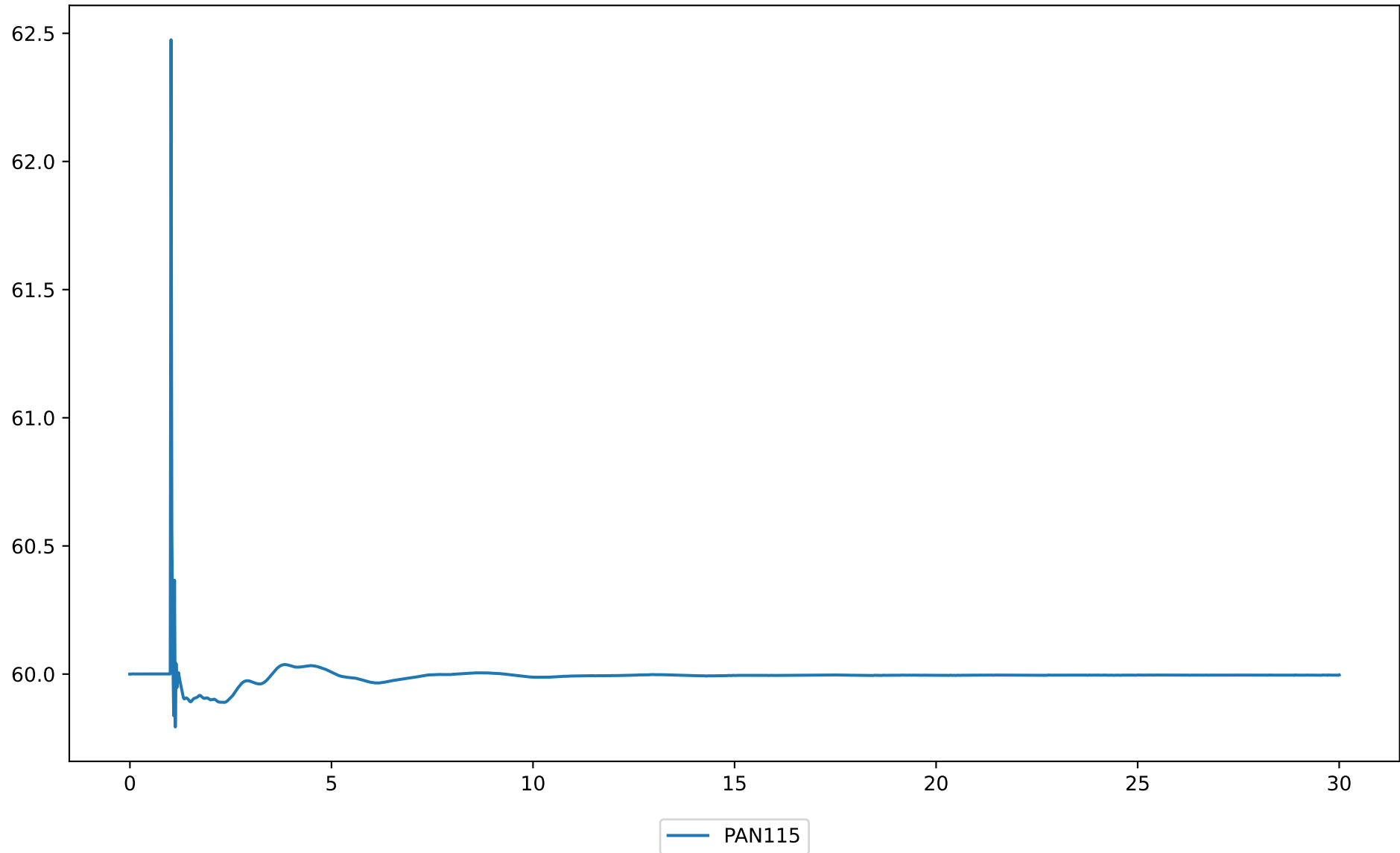


### Angulos de Rotacion de Maquinas - Panama

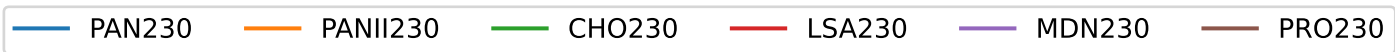
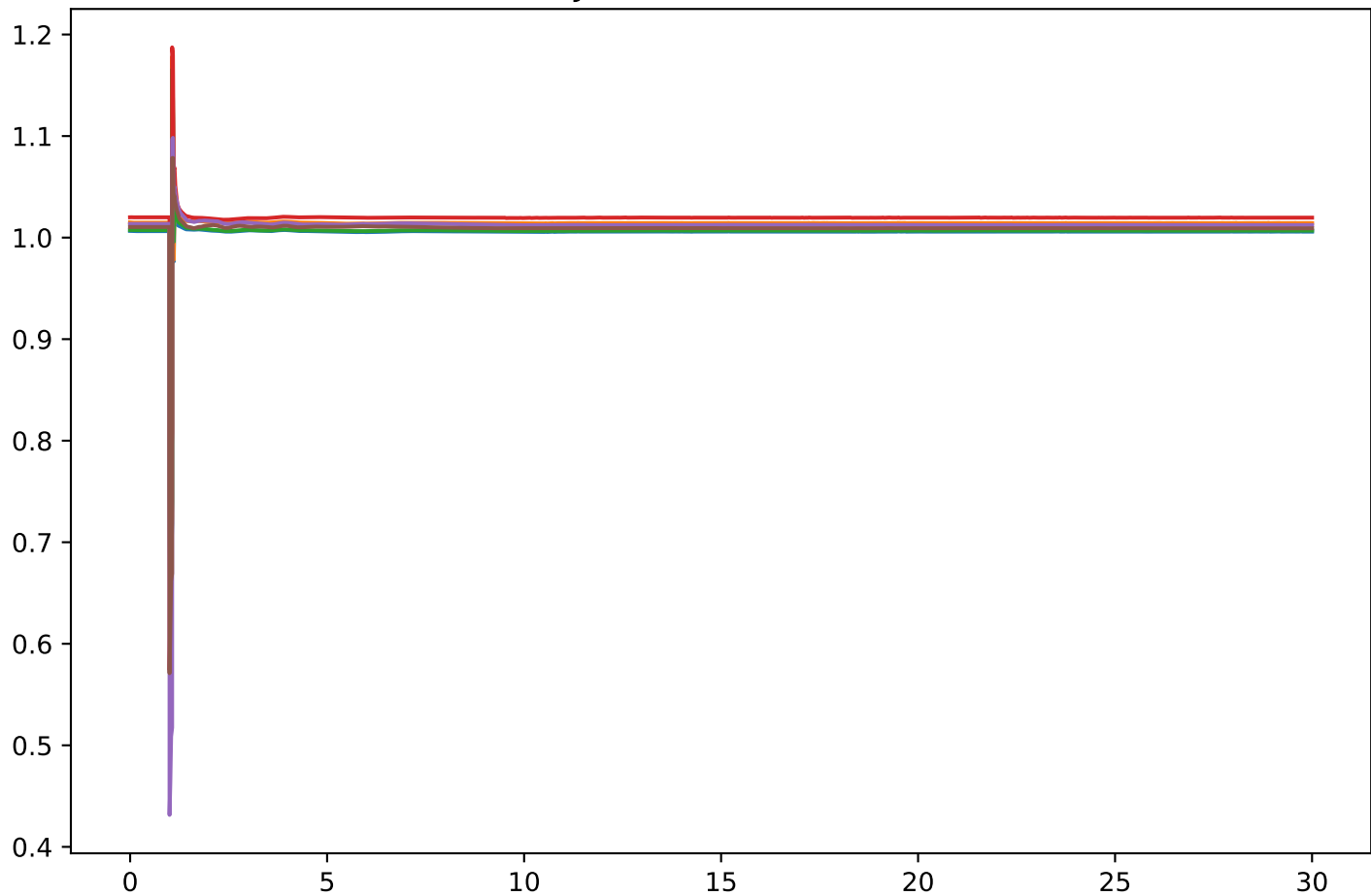


Caso: 1023-3-2033CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6178-6179-19-C4\_ESTI

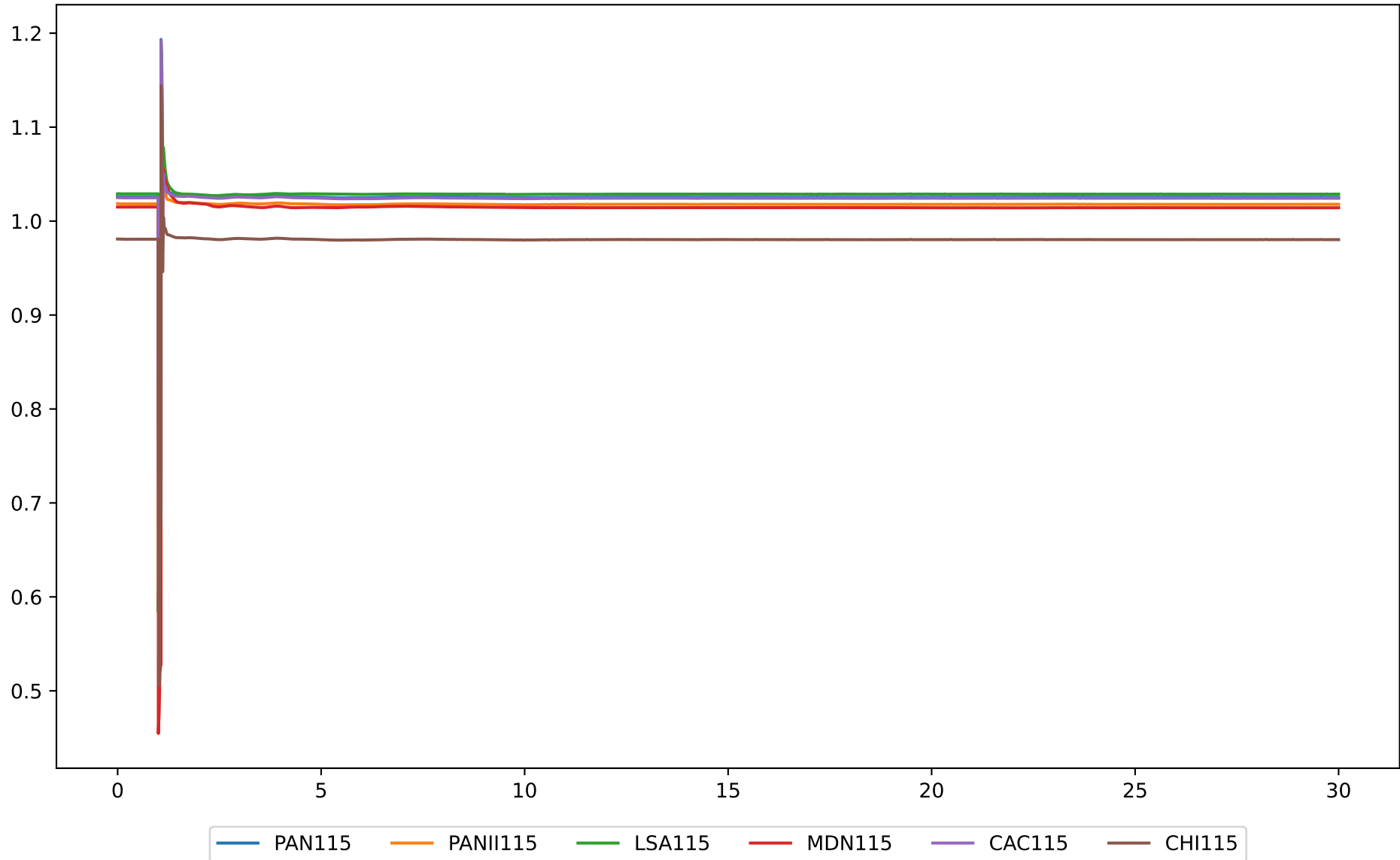
### Frecuencia (Hz)



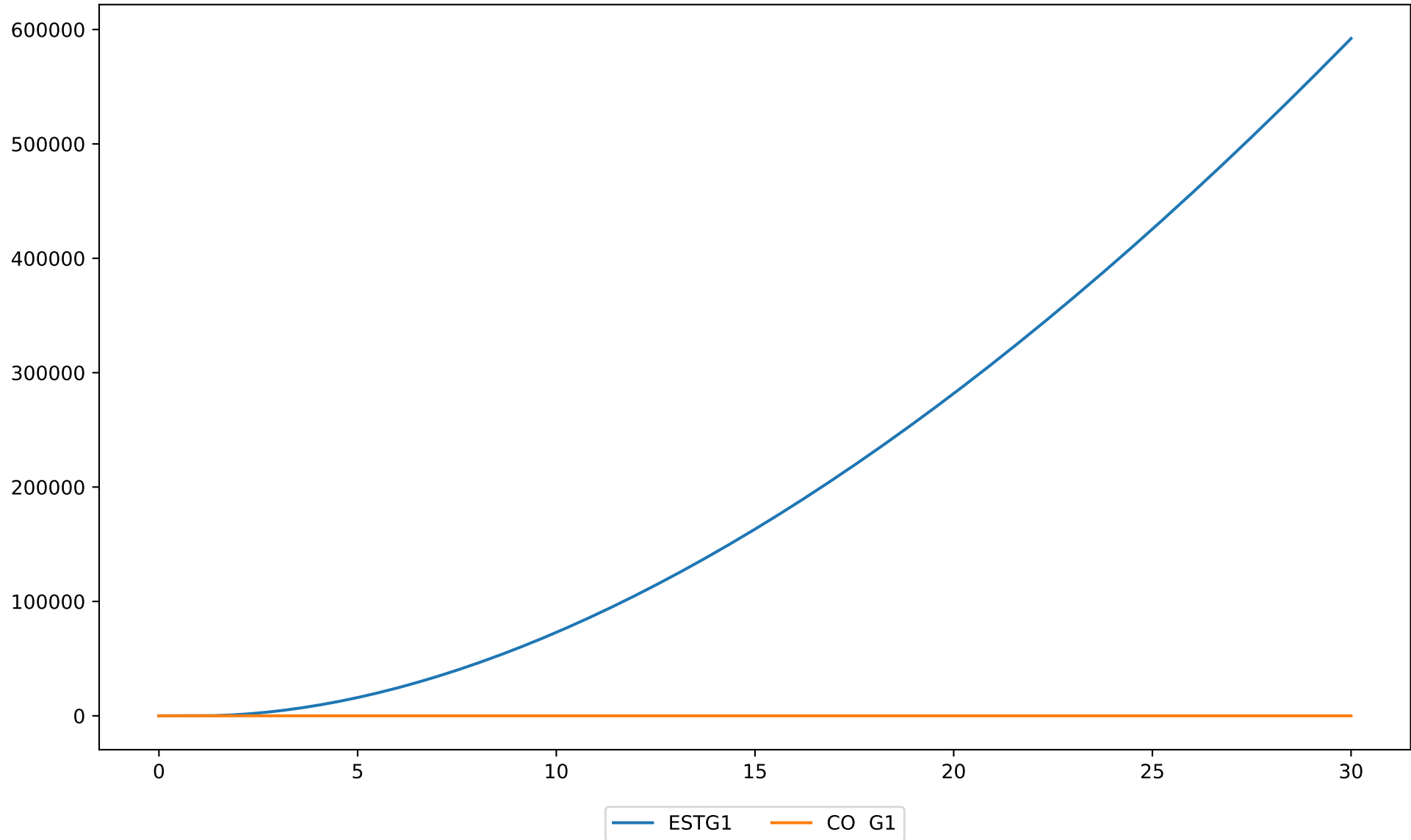
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

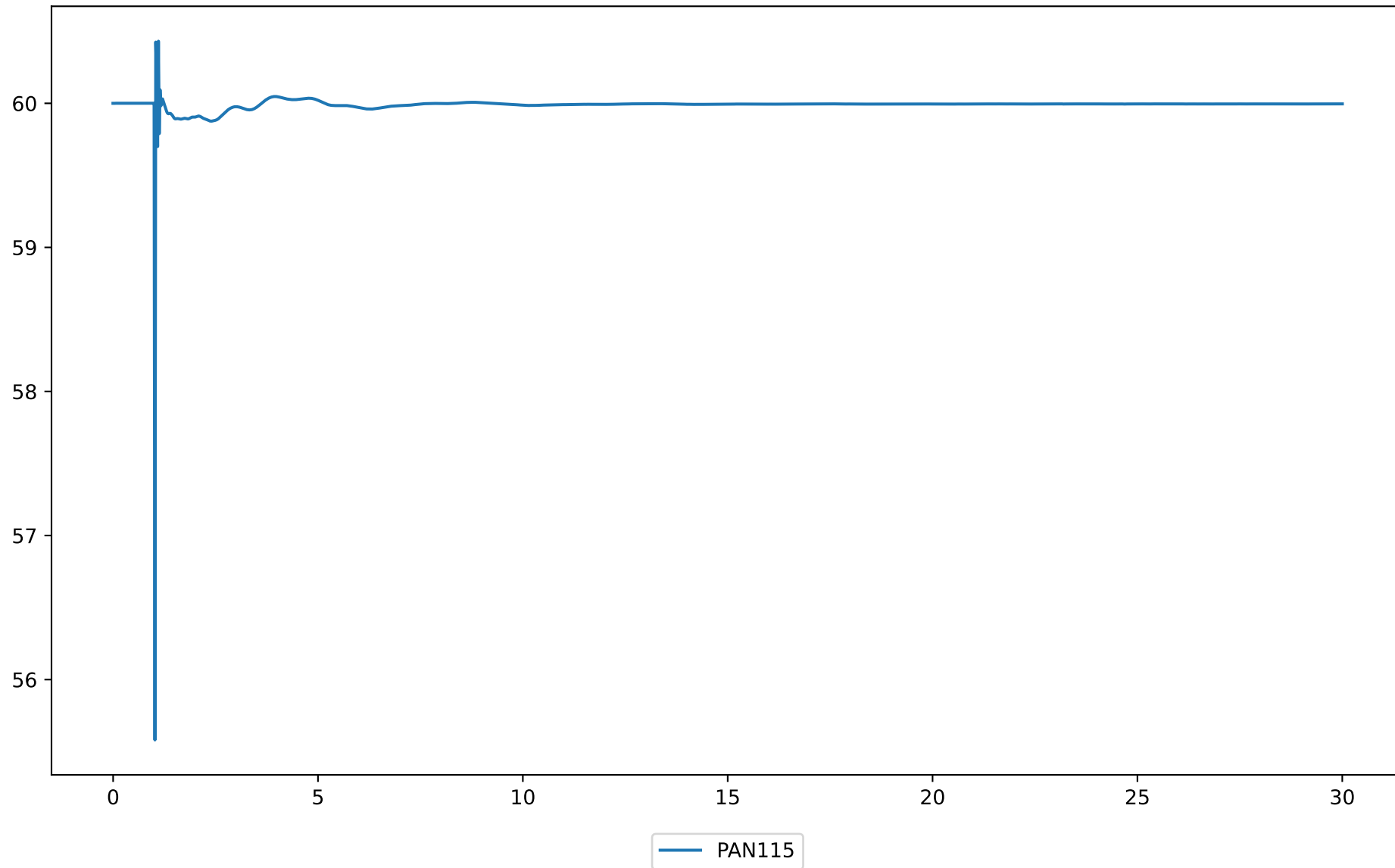


### Angulos de Rotacion de Maquinas - Panama



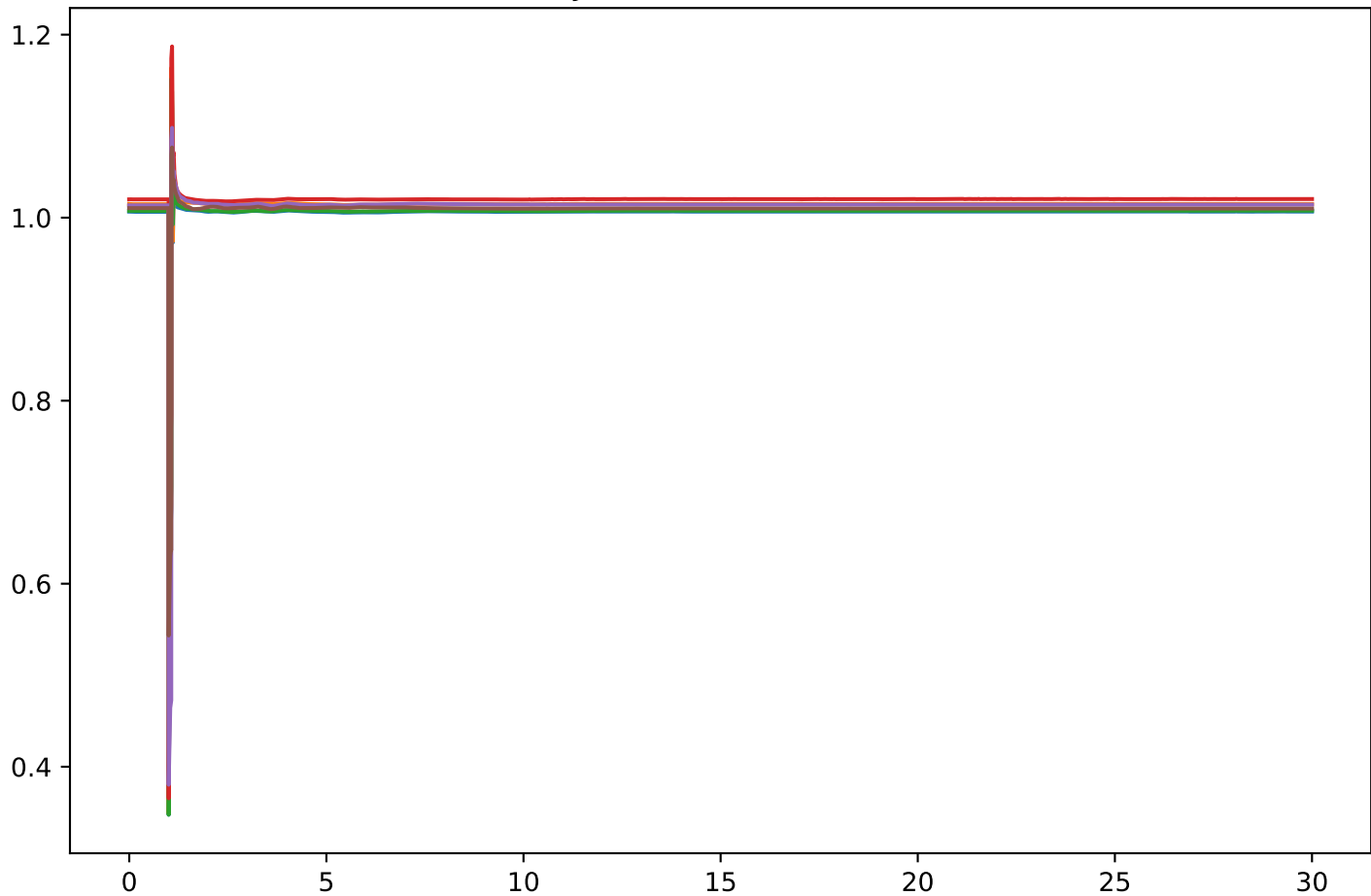
Caso: 1023-3-2033CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6179-6360-22-C5\_GUA-GLA

### Frecuencia (Hz)



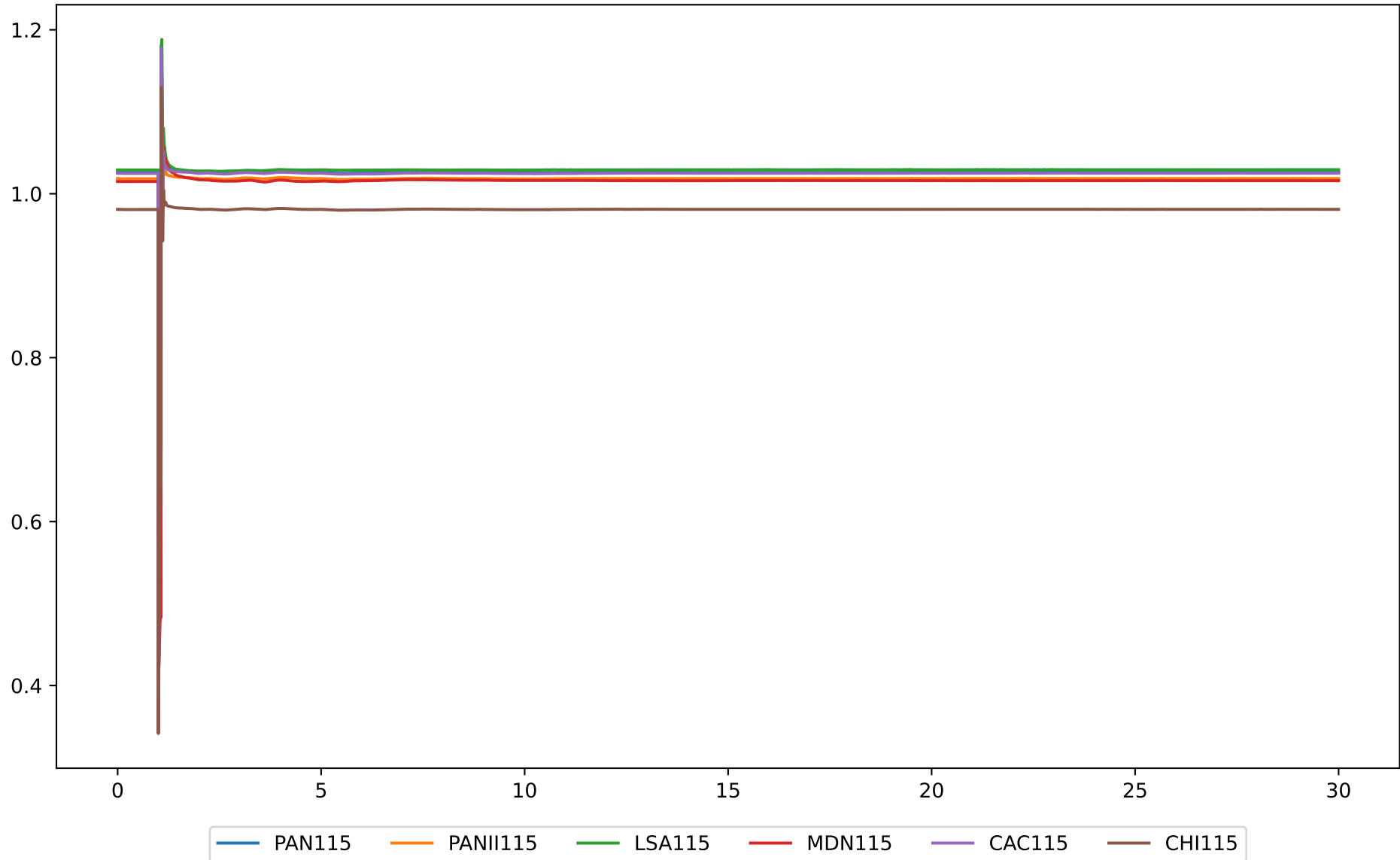


# Voltajes 230kV - Panama

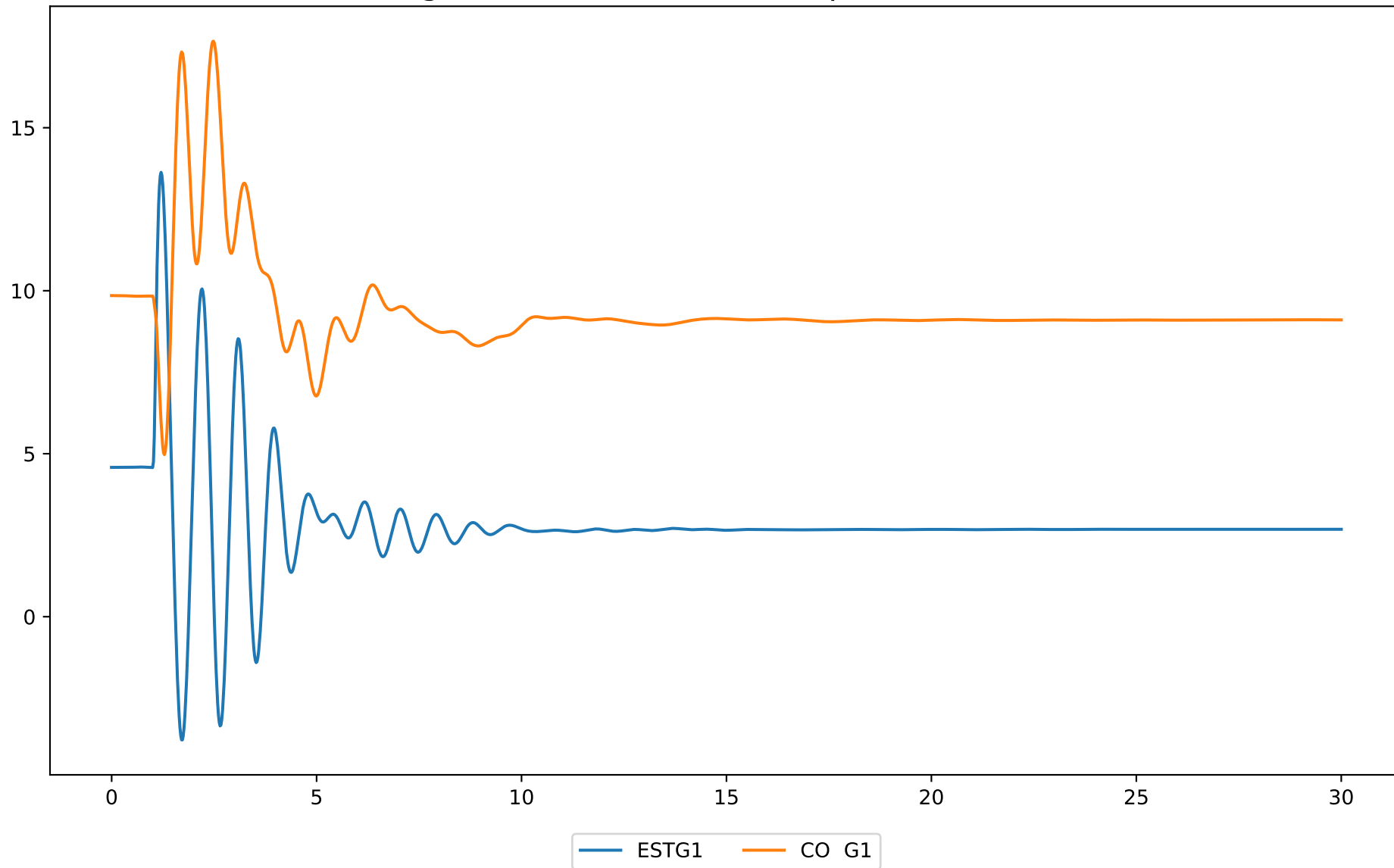


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama

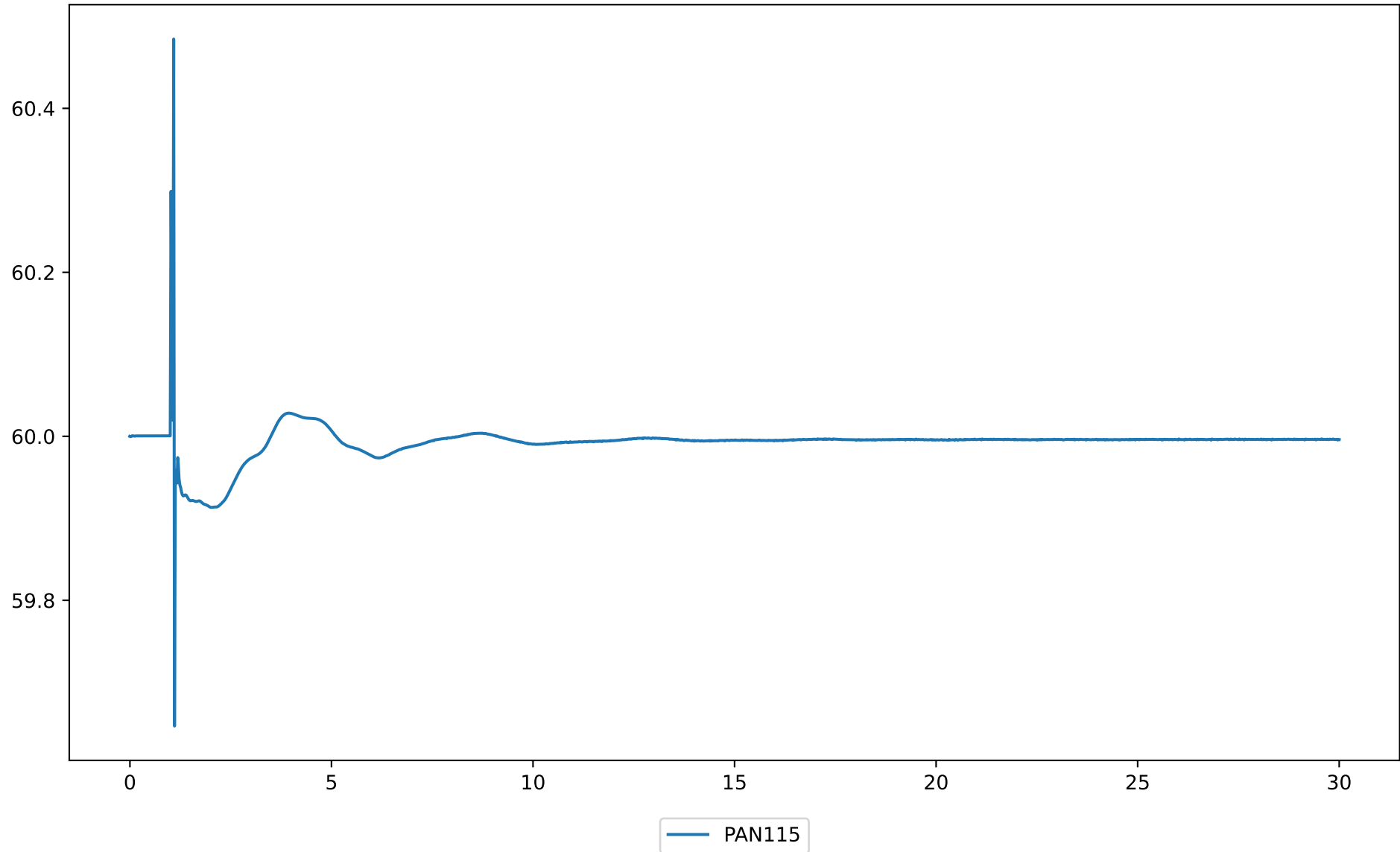


### Angulos de Rotacion de Maquinas - Panama

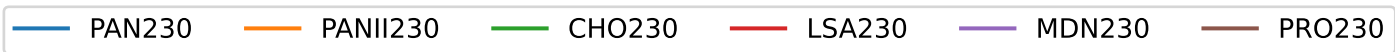
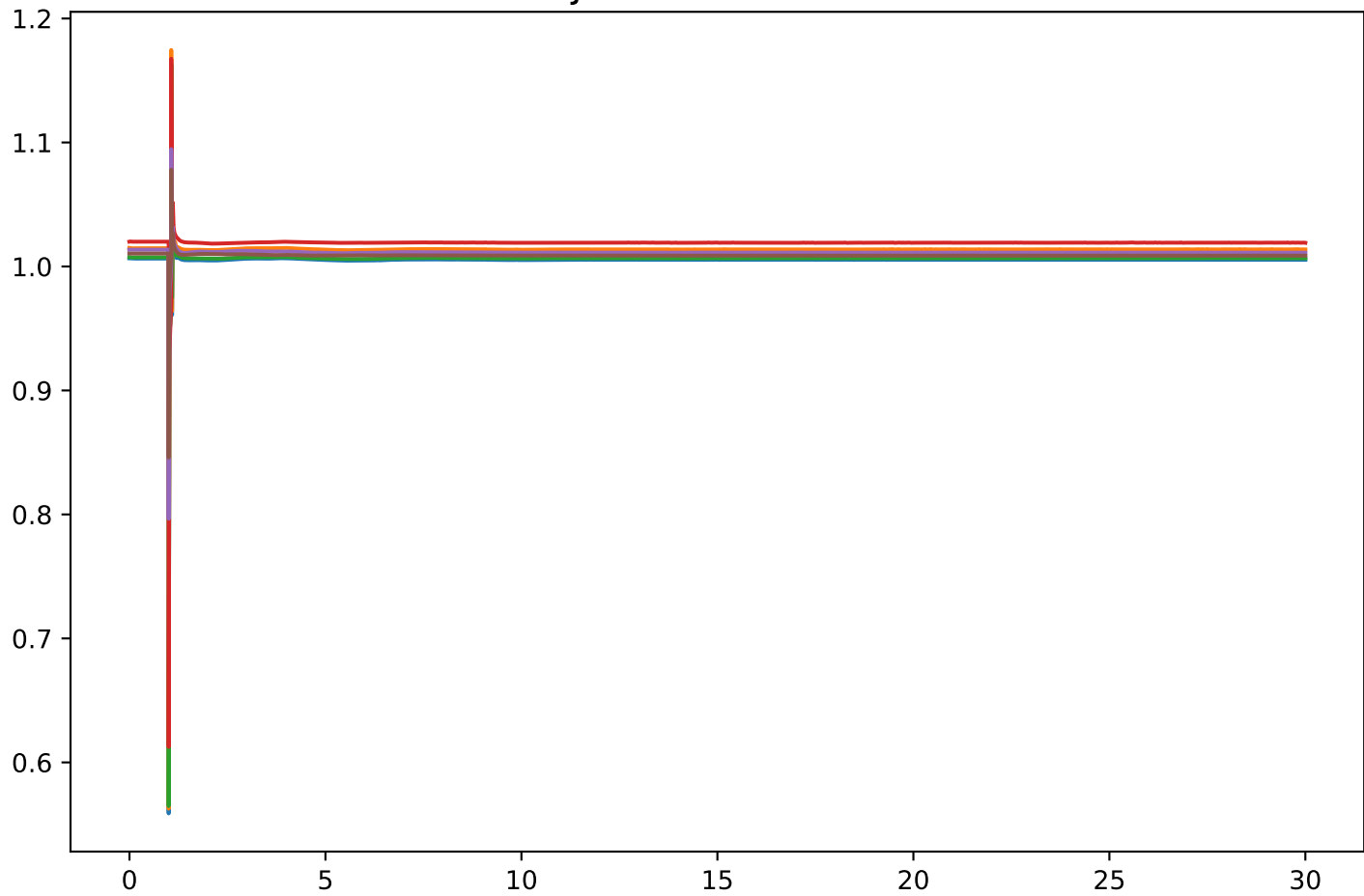


Caso: 1023-3-2033CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6207-6460-T1-C6\_ECO-CSO1

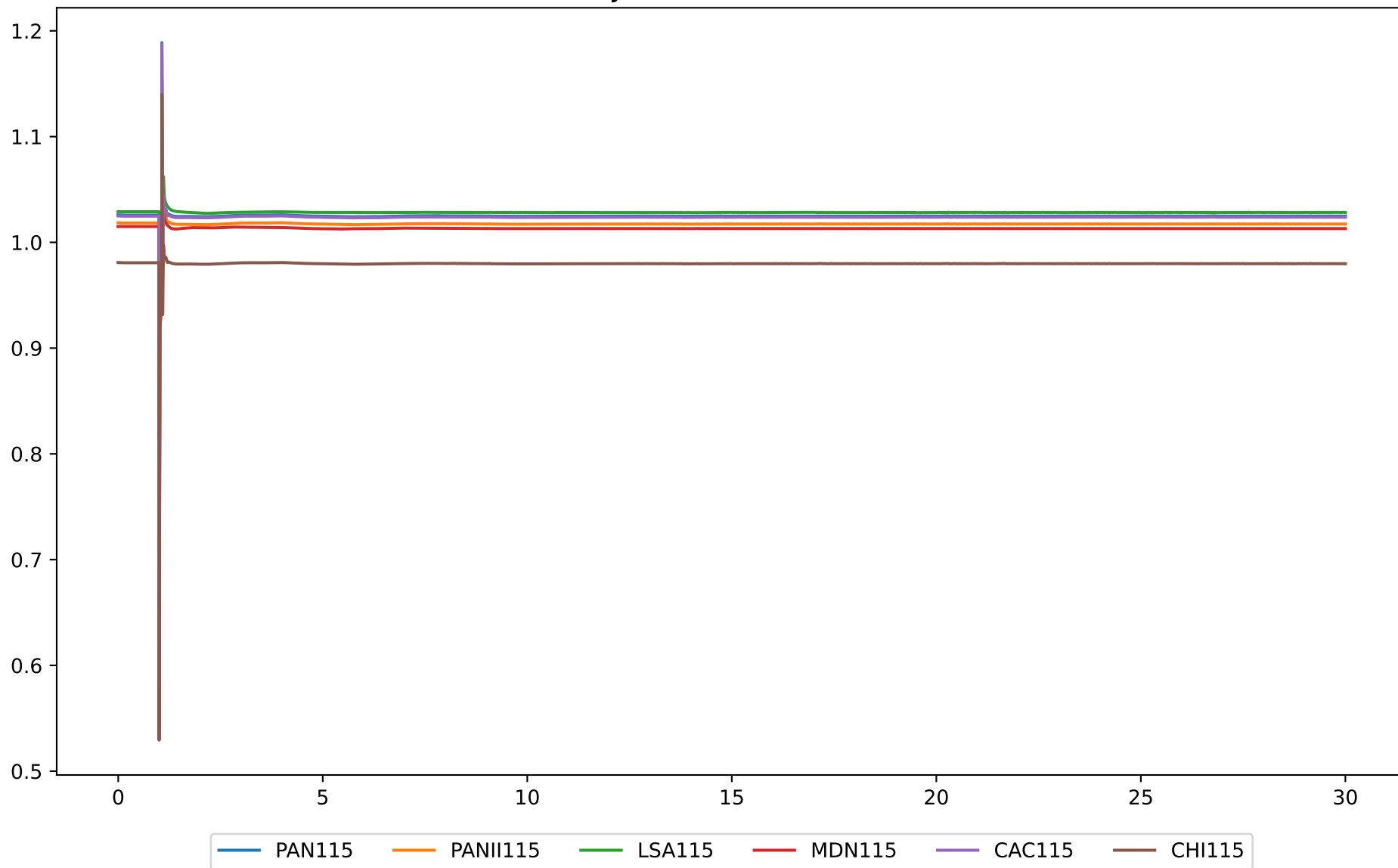
### Frecuencia (Hz)



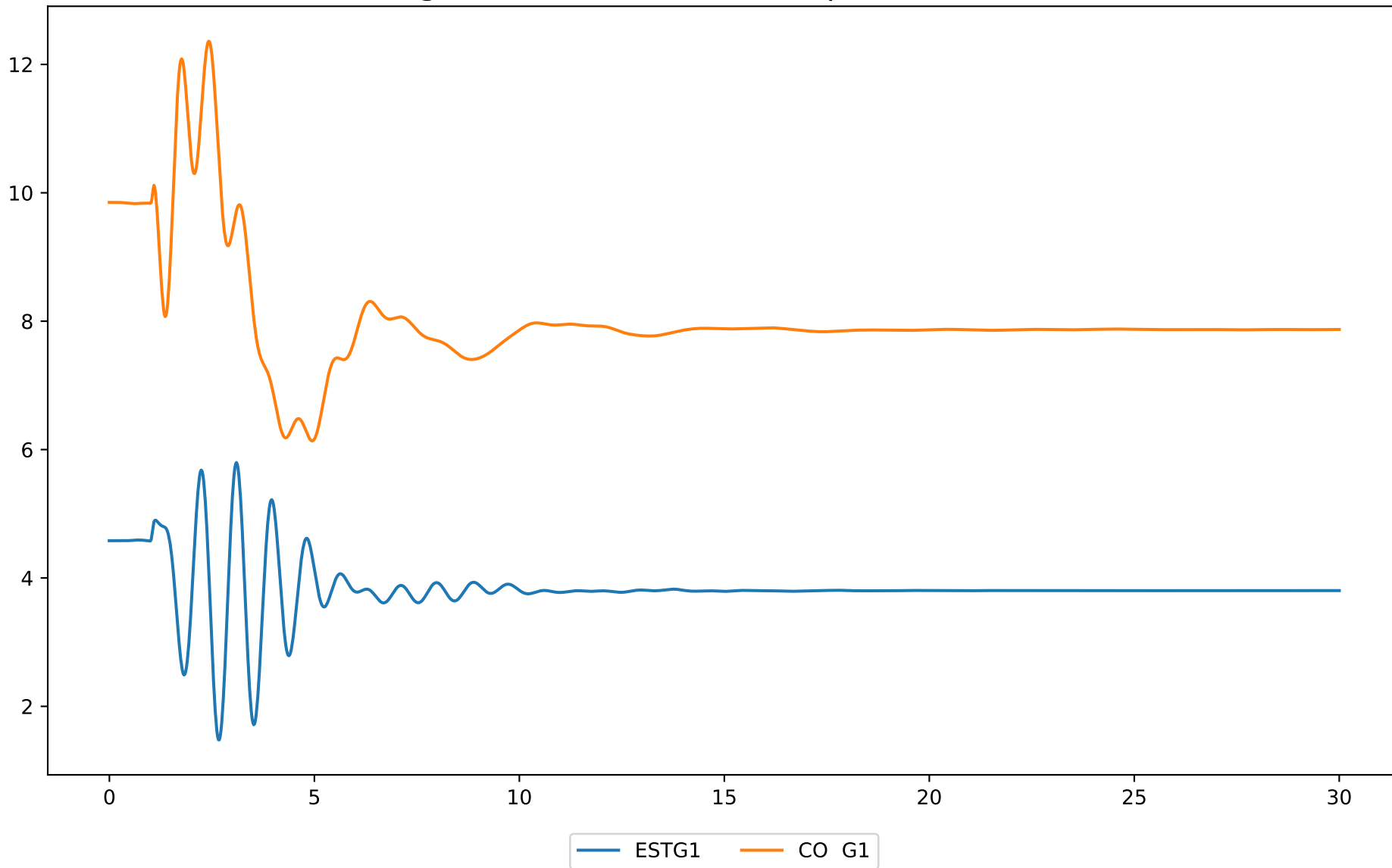
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

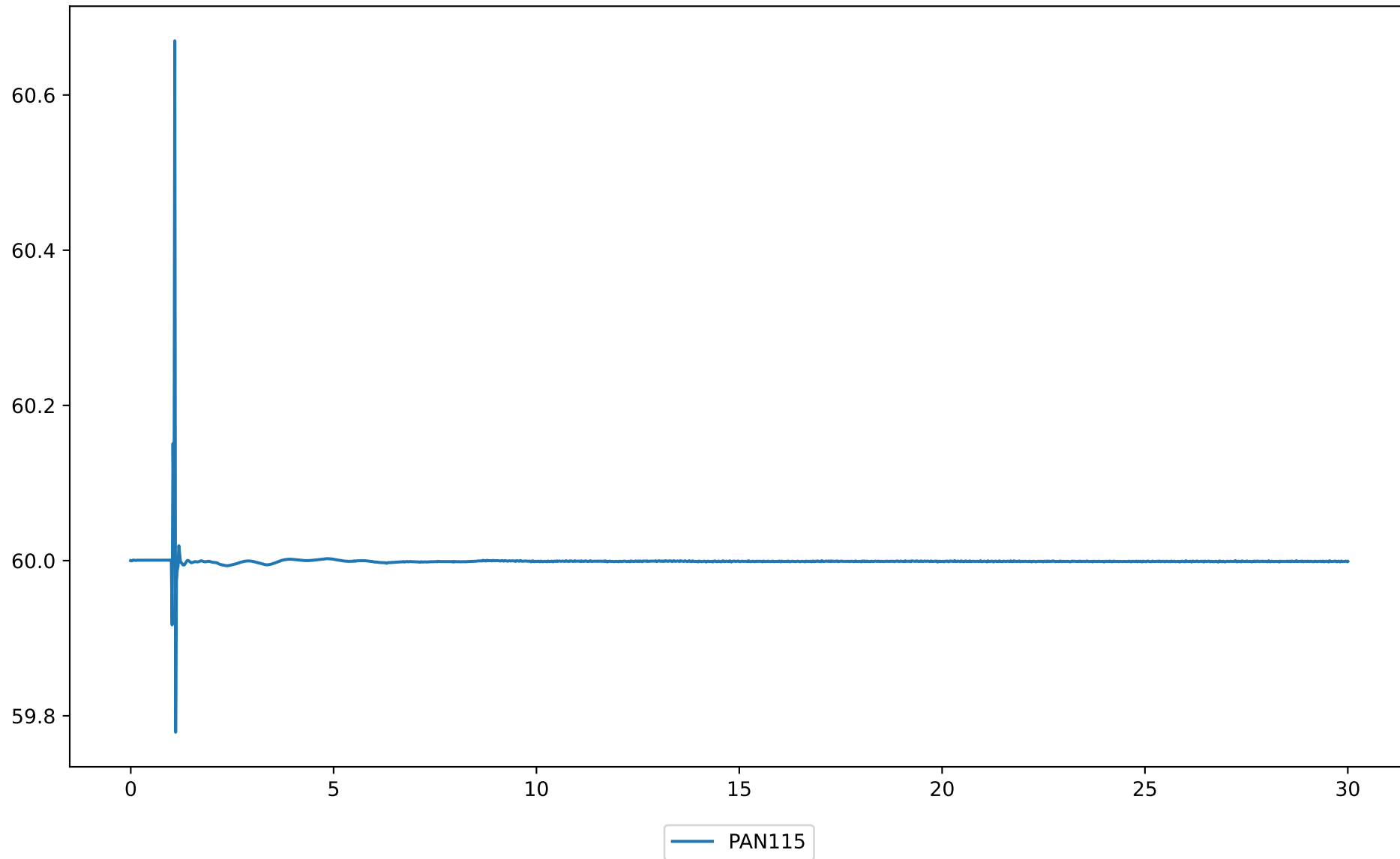


### Angulos de Rotacion de Maquinas - Panama



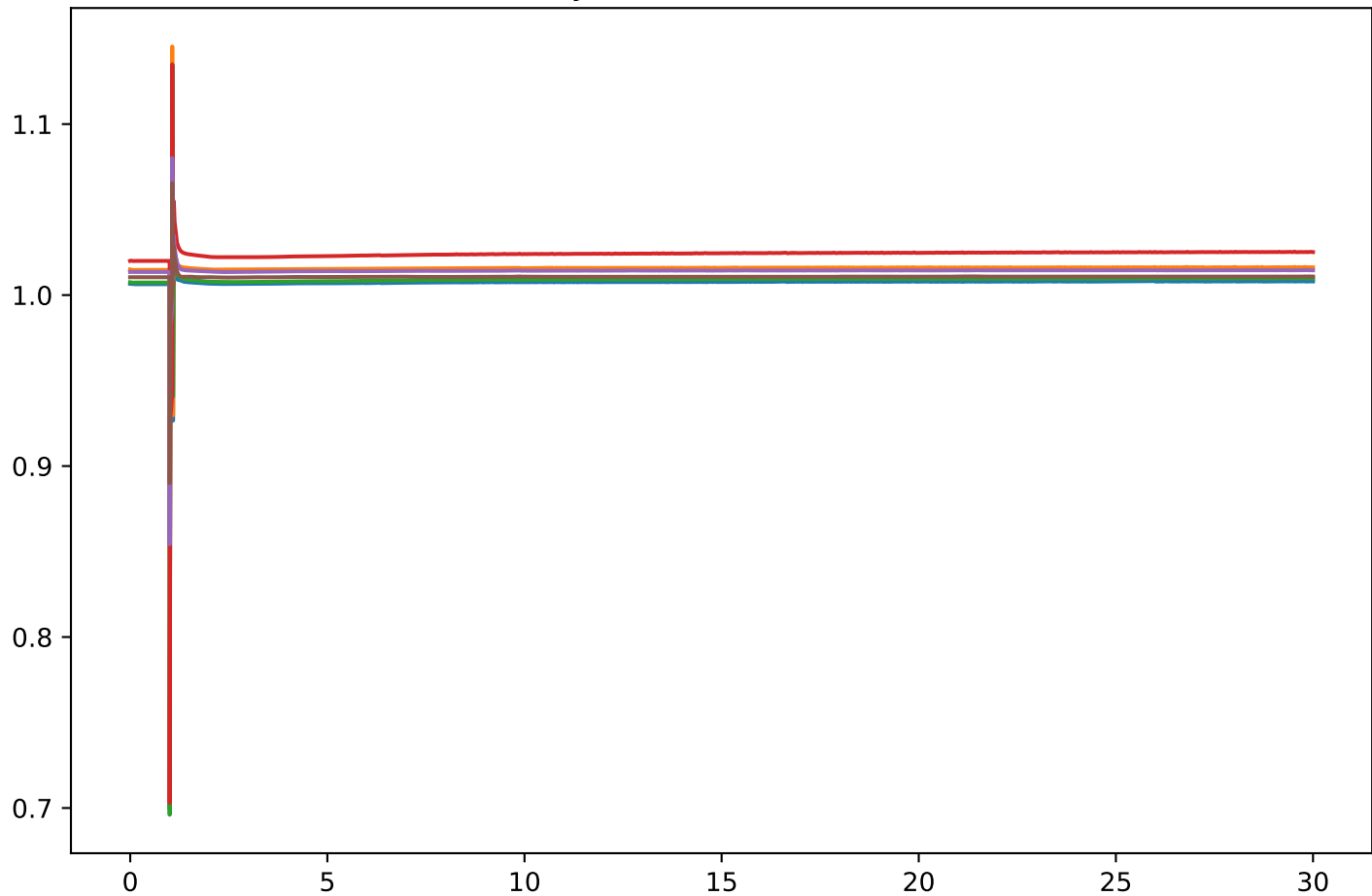
Caso: 1023-3-2033CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6812-6811-T4-C7\_STC-LSA

### Frecuencia (Hz)



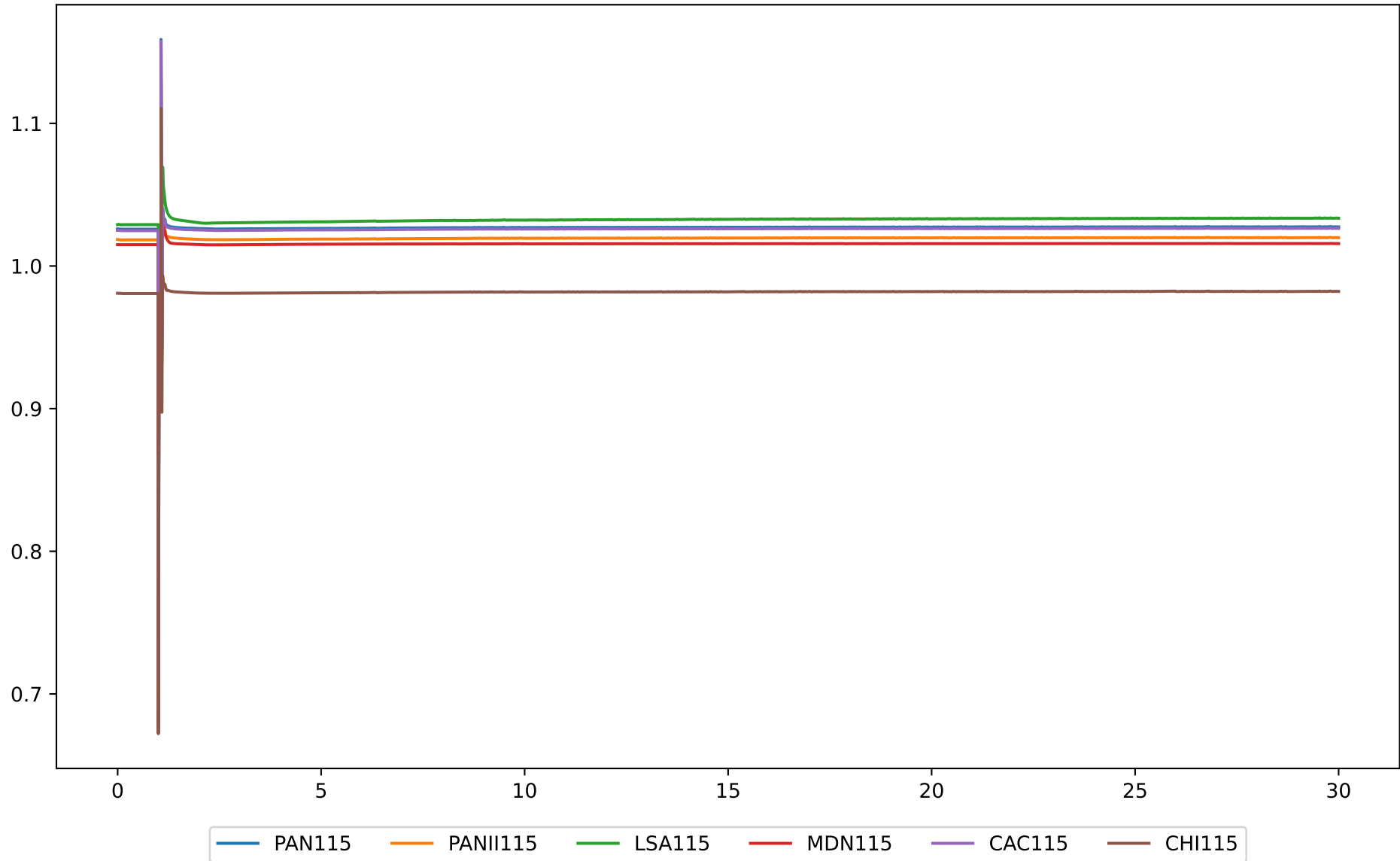


# Voltajes 230kV - Panama

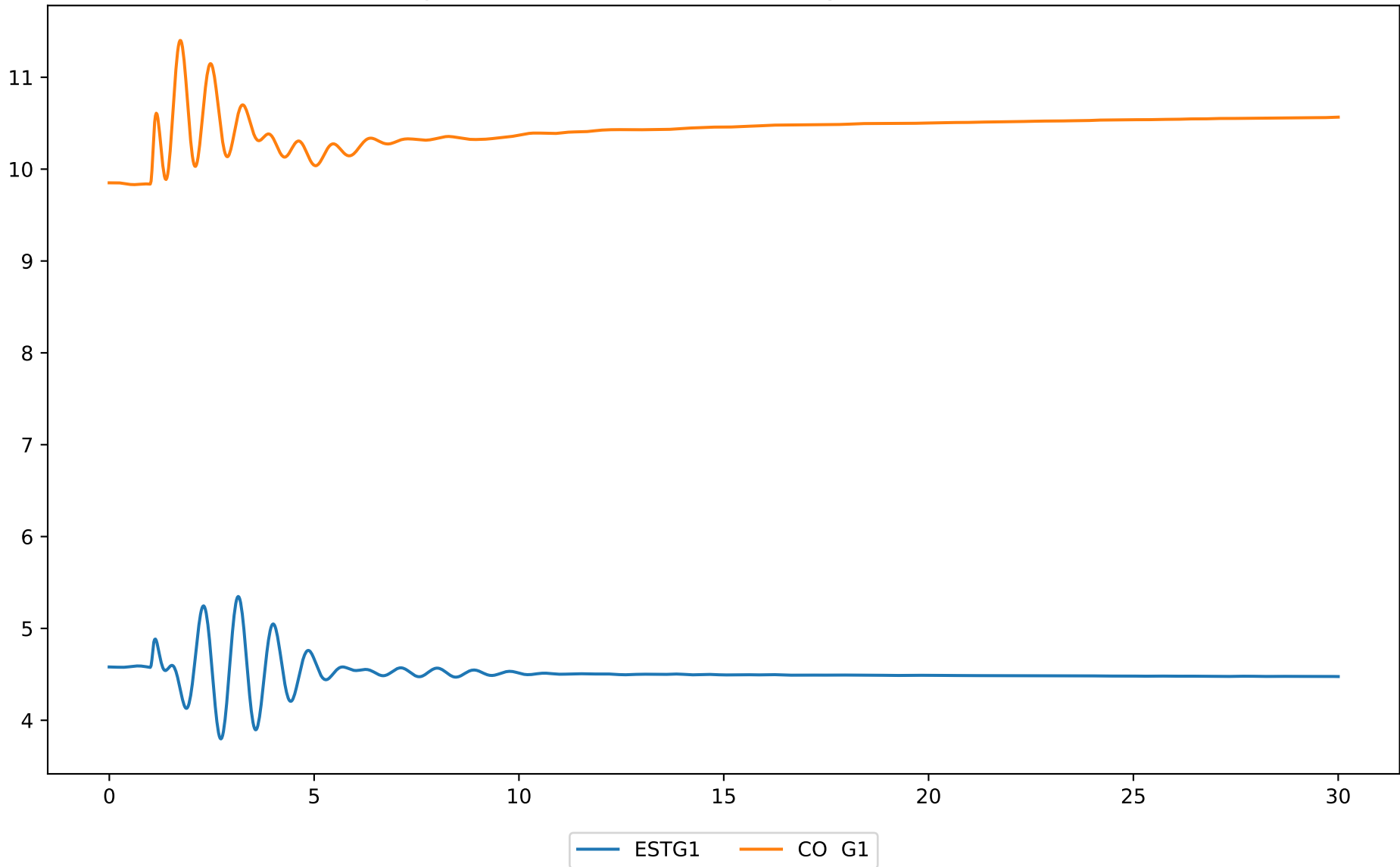


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama

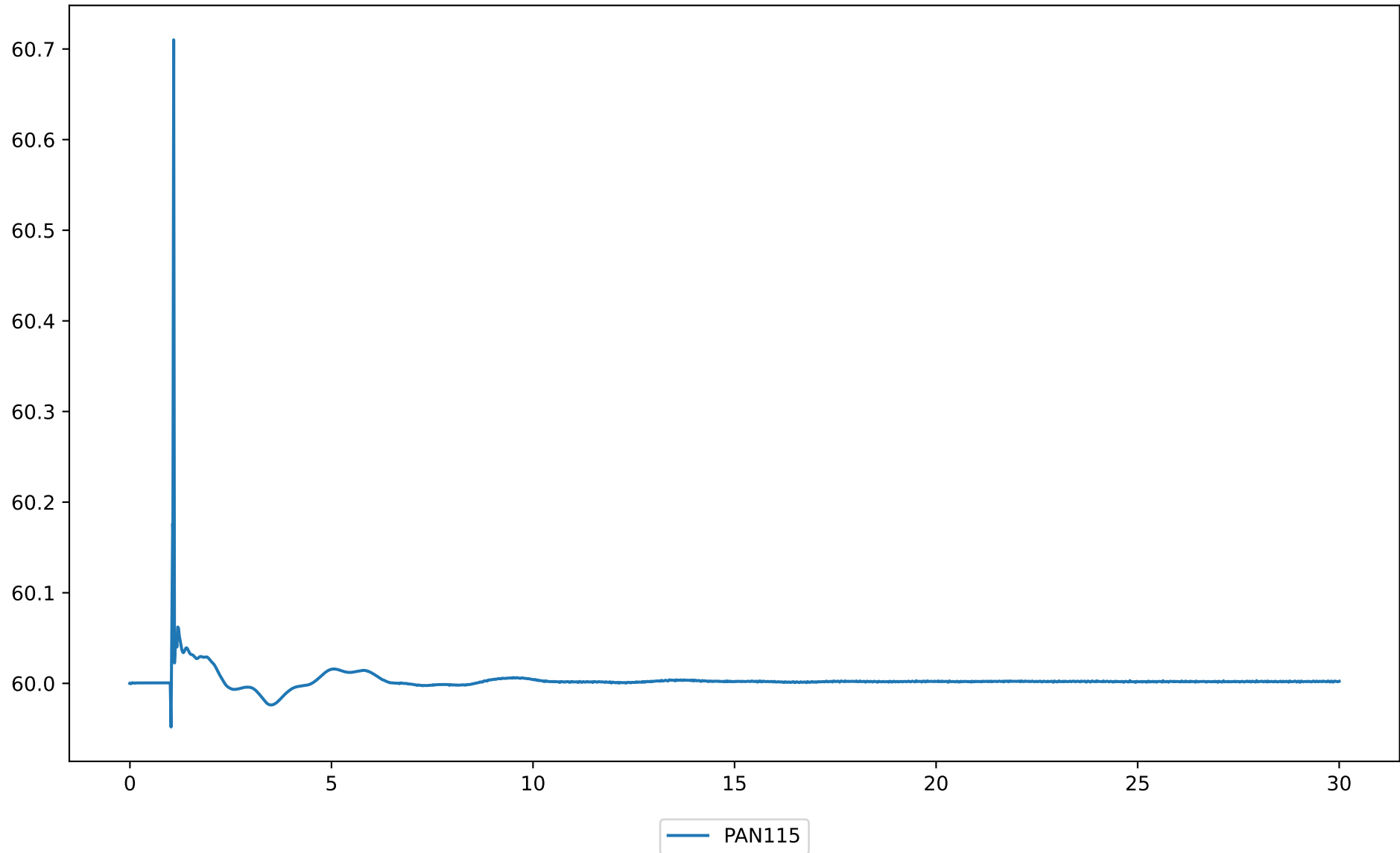


### Angulos de Rotacion de Maquinas - Panama

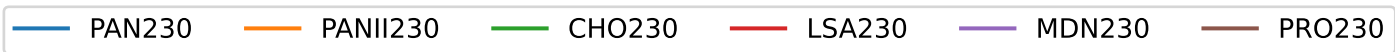
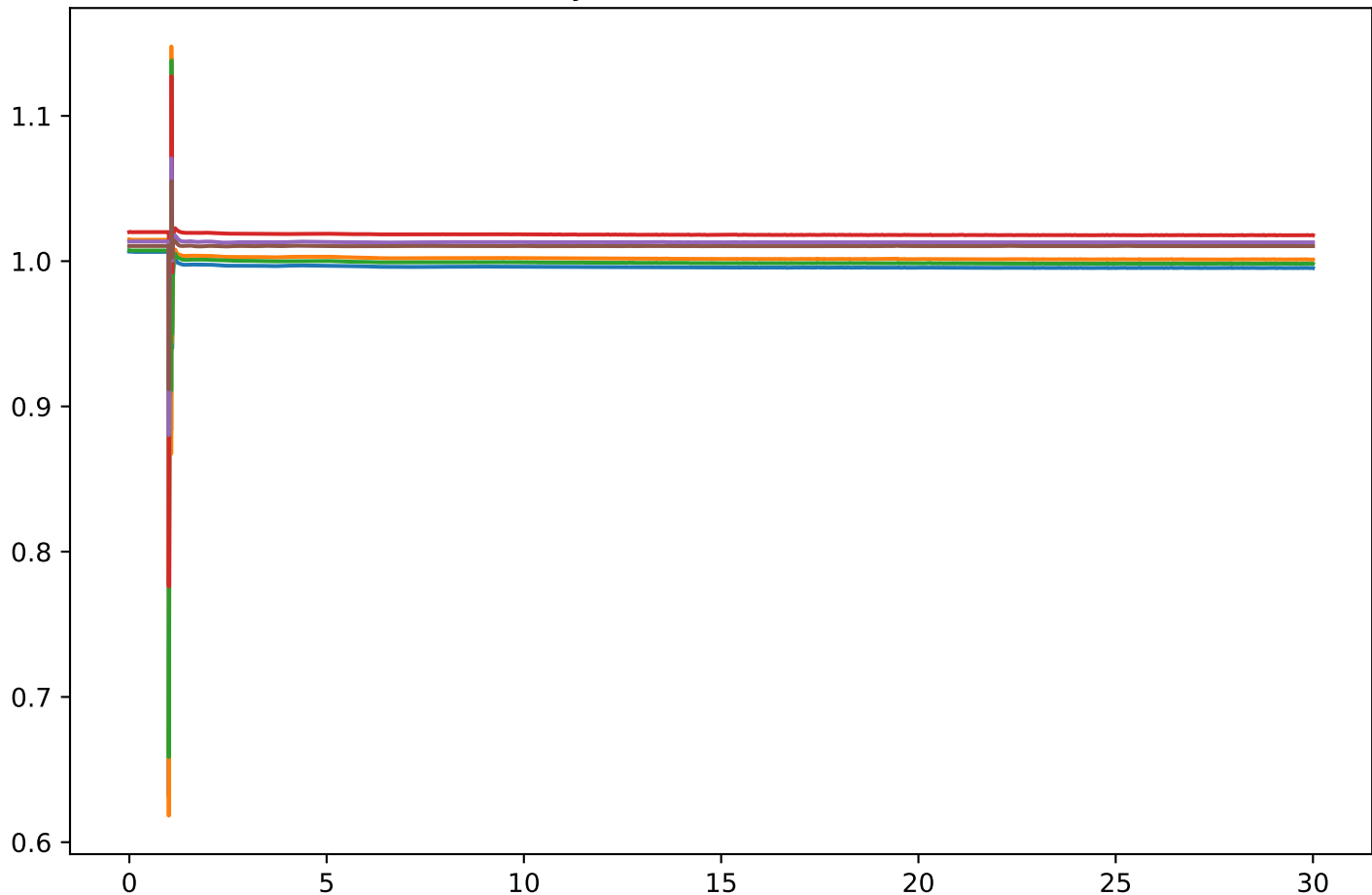


Caso: 1023-3-2033CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6817-6816-T4-C8\_STC-PANII

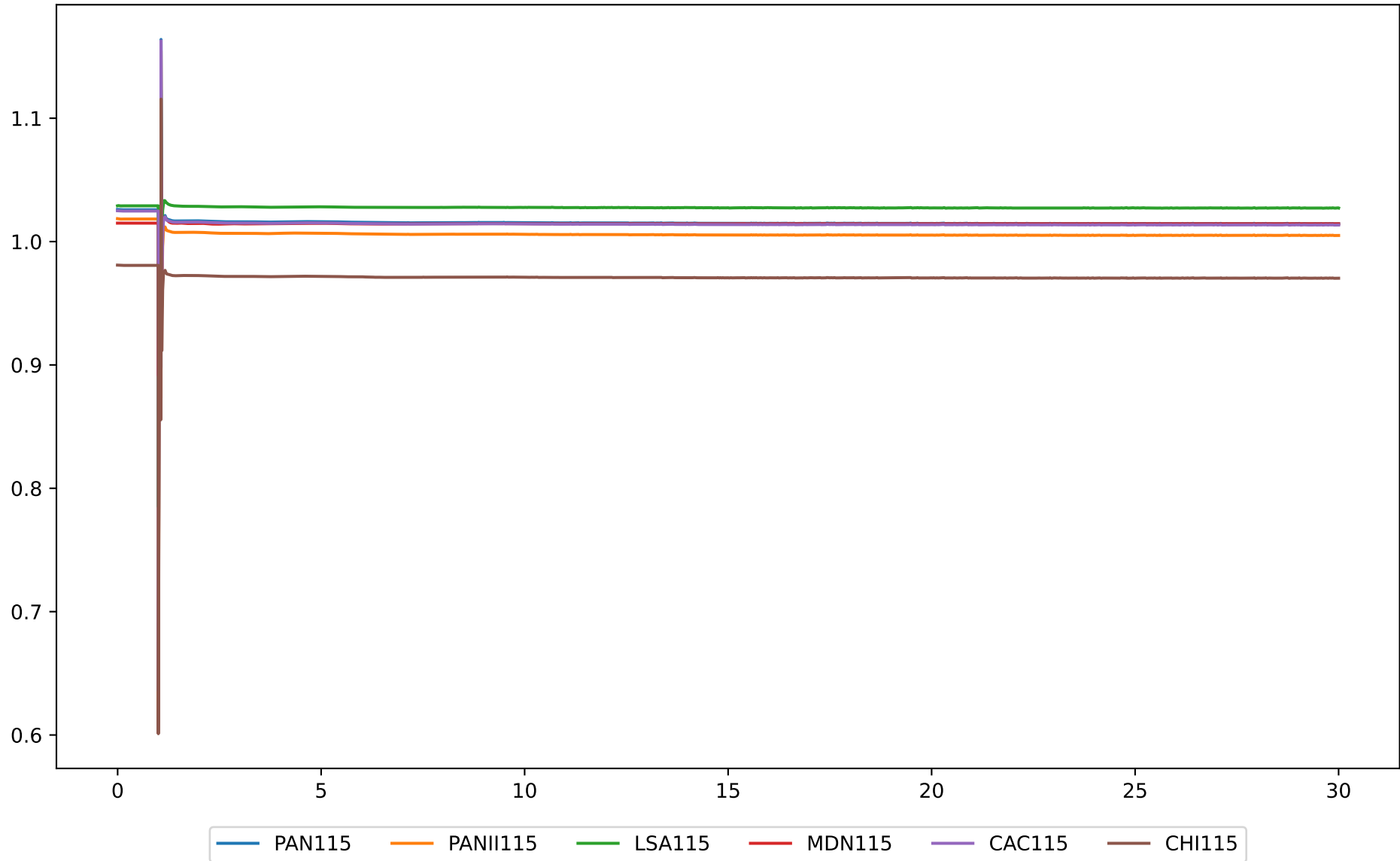
### Frecuencia (Hz)



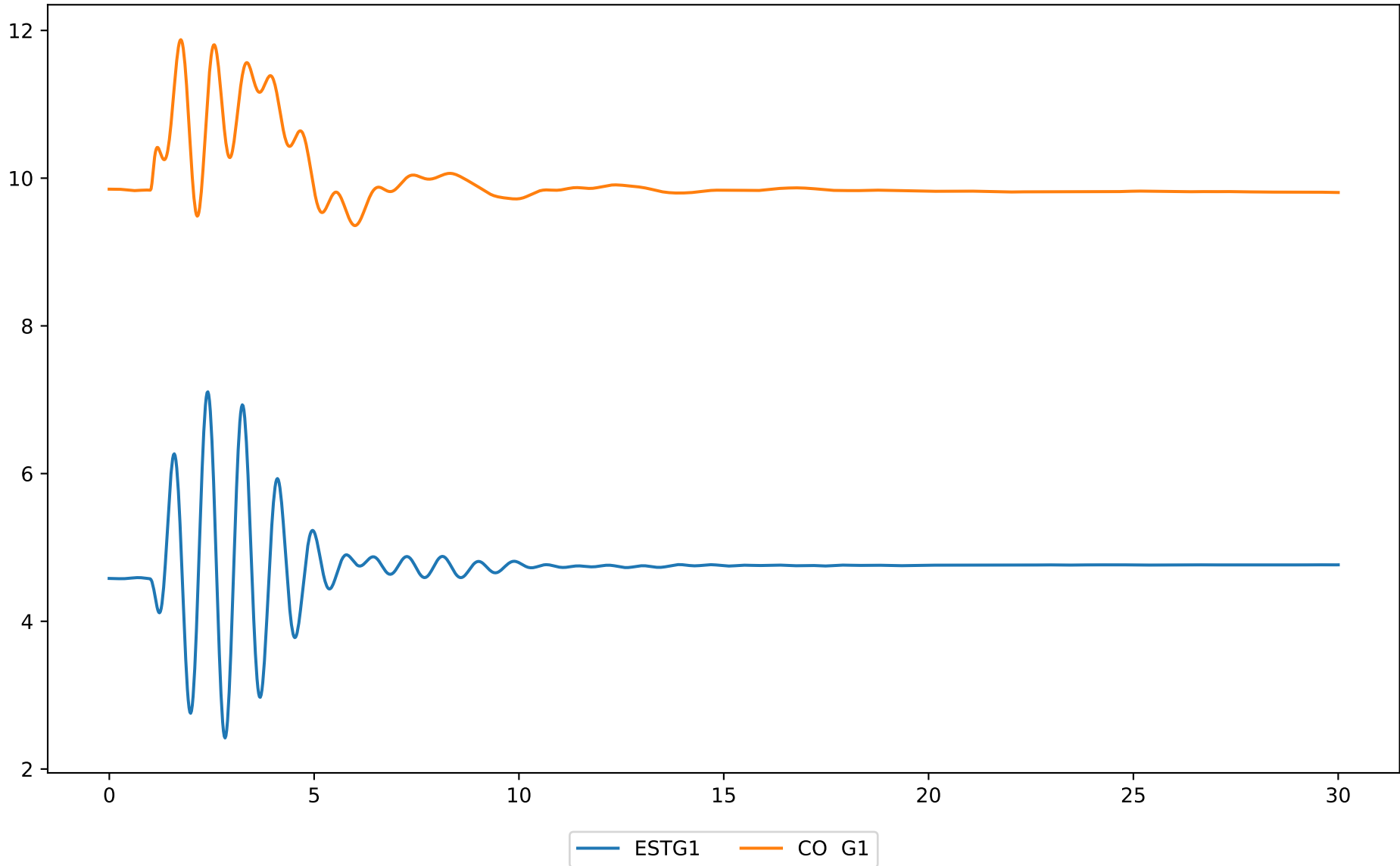
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

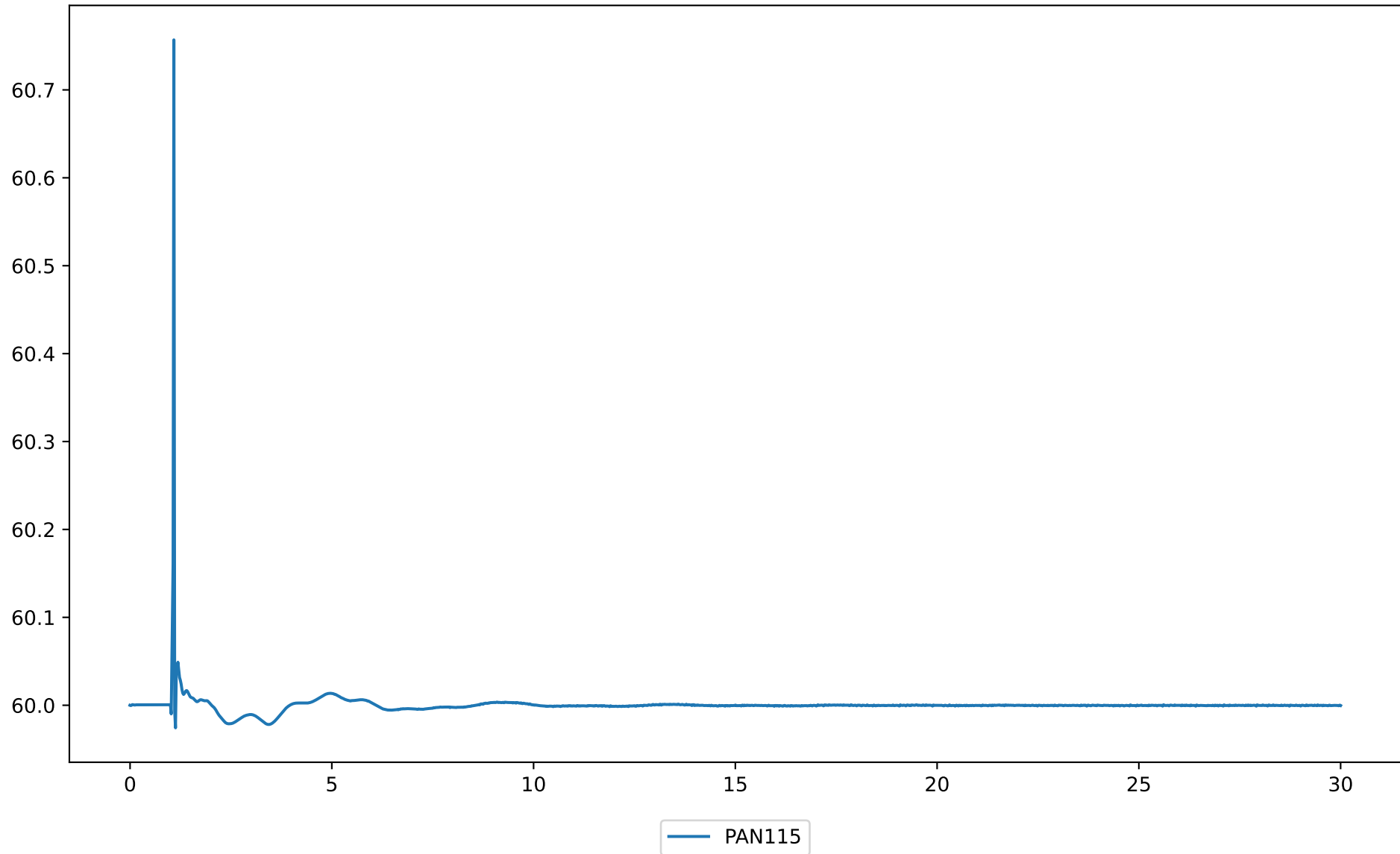


### Angulos de Rotacion de Maquinas - Panama



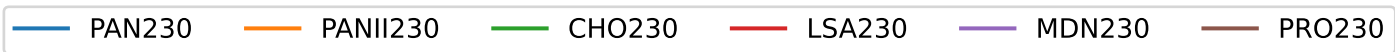
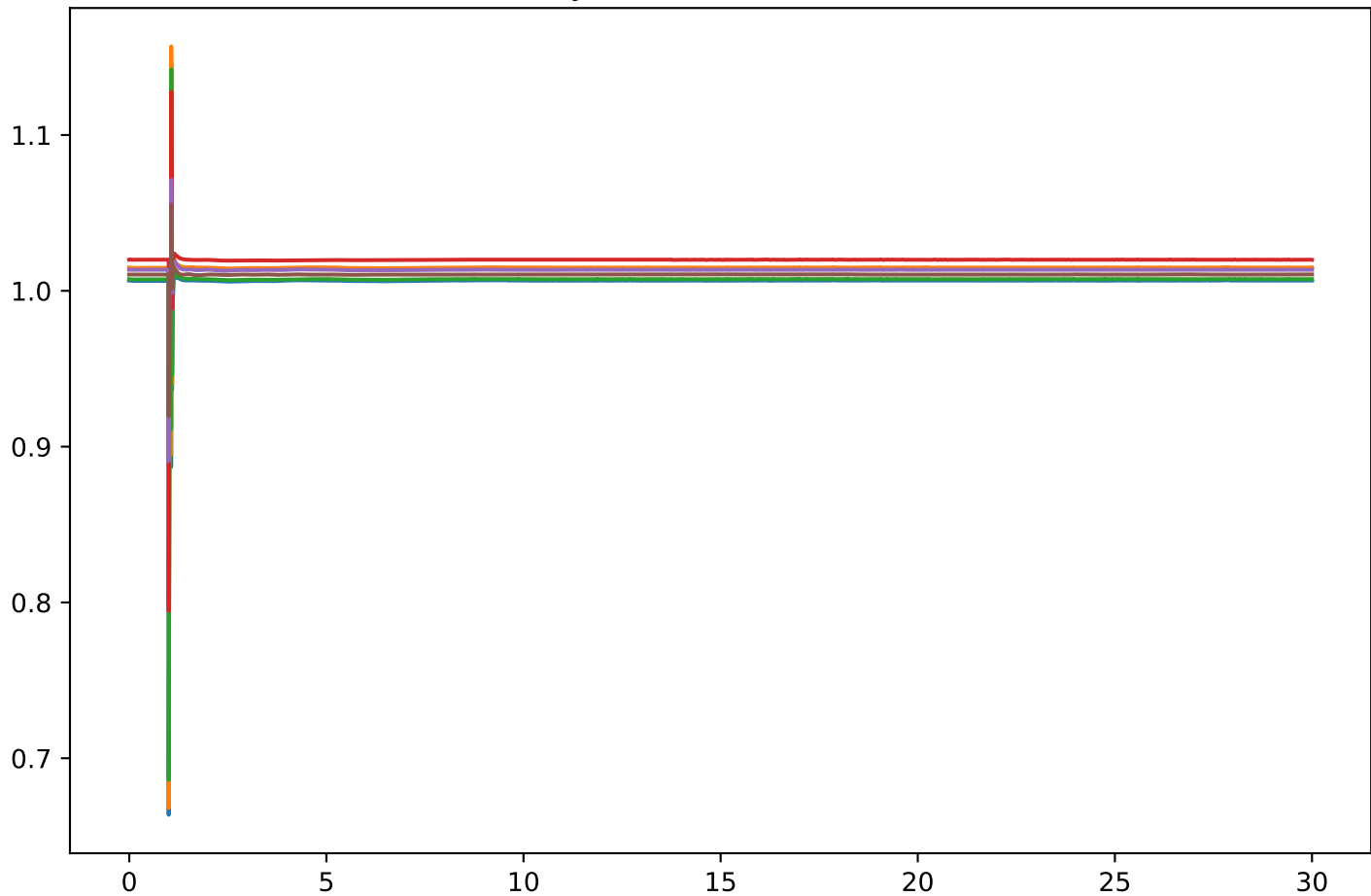
Caso: 1023-3-2033CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6820-6823-1-C9\_STC-PAN3

### Frecuencia (Hz)

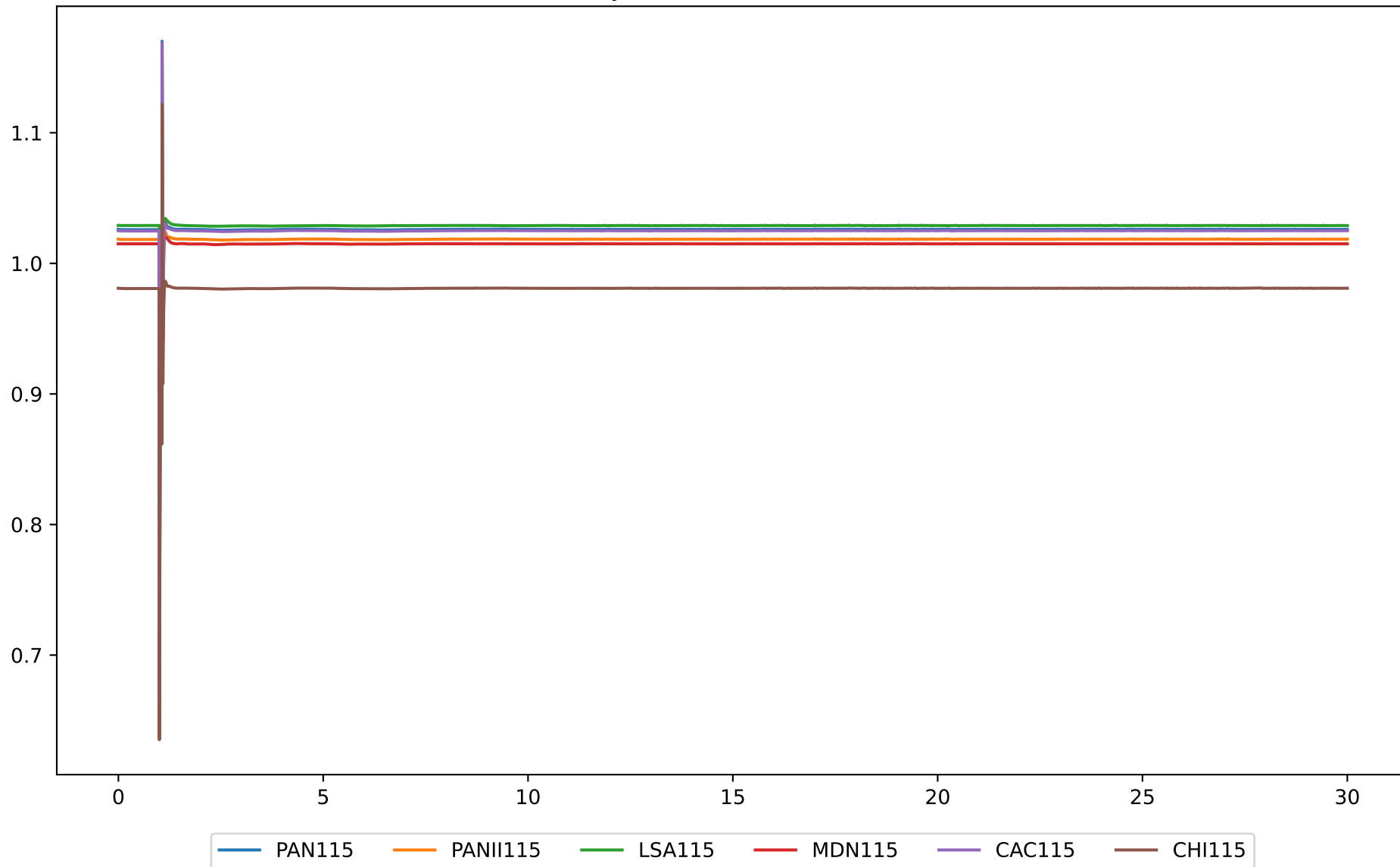




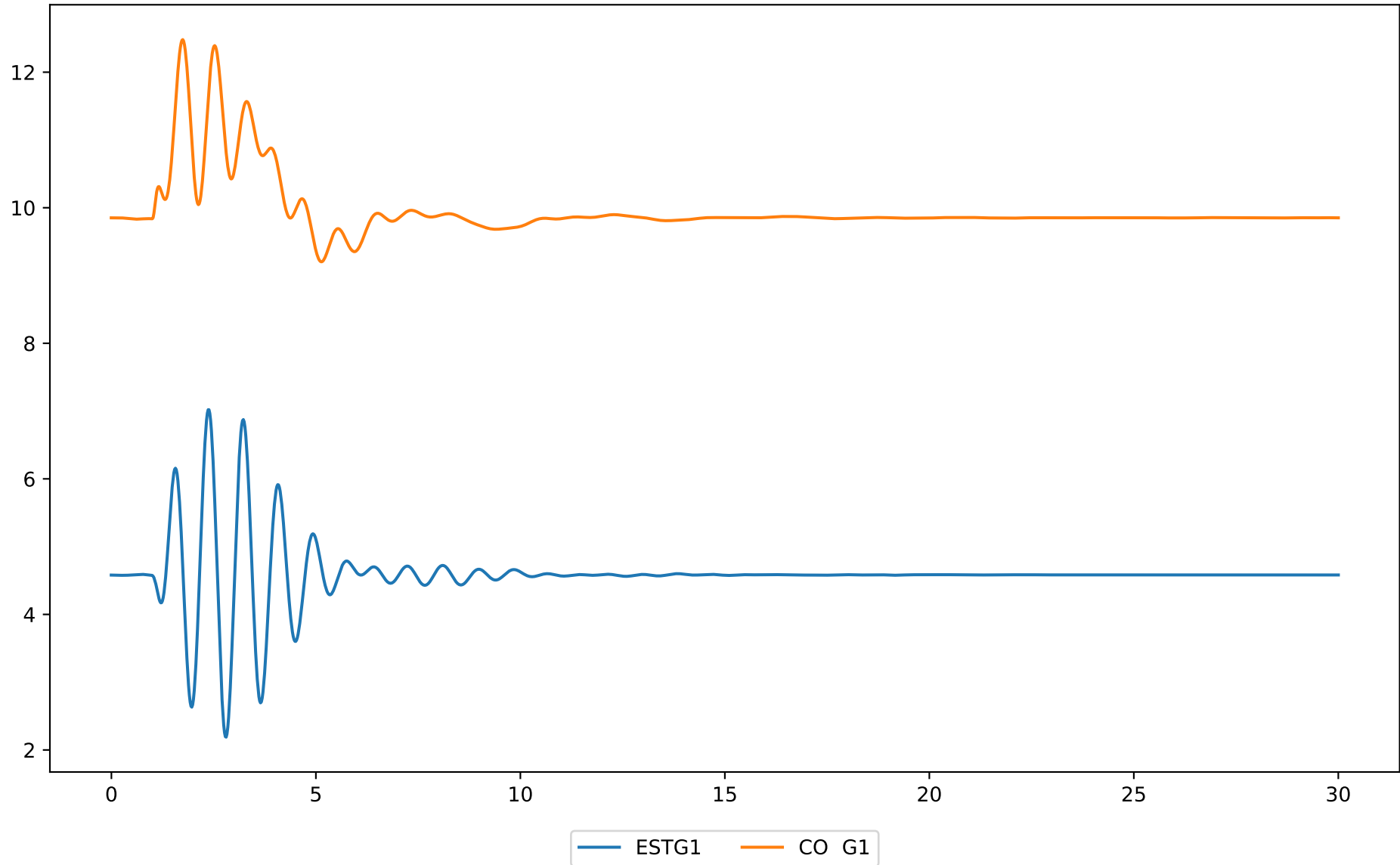
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama



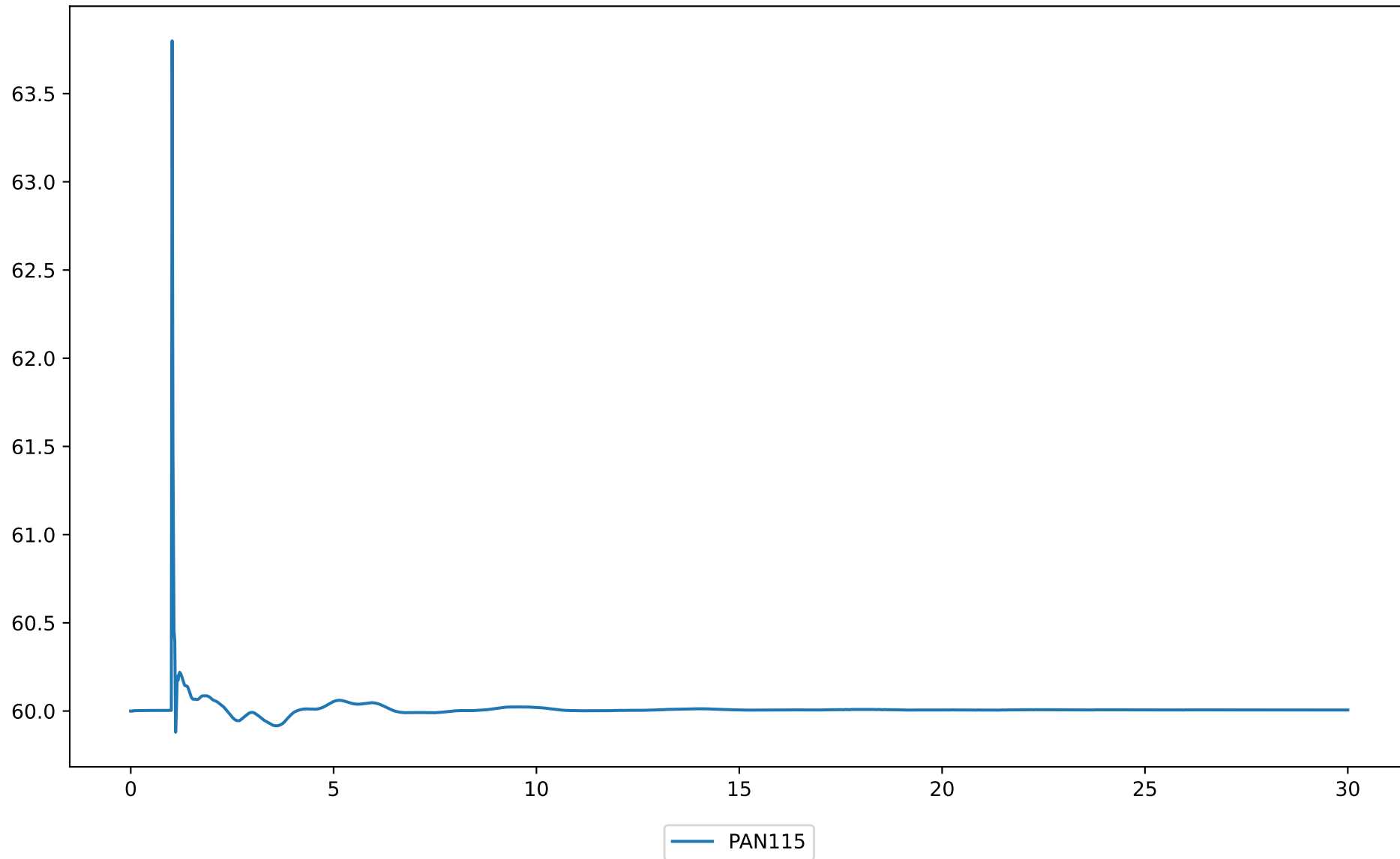
### Angulos de Rotacion de Maquinas - Panama



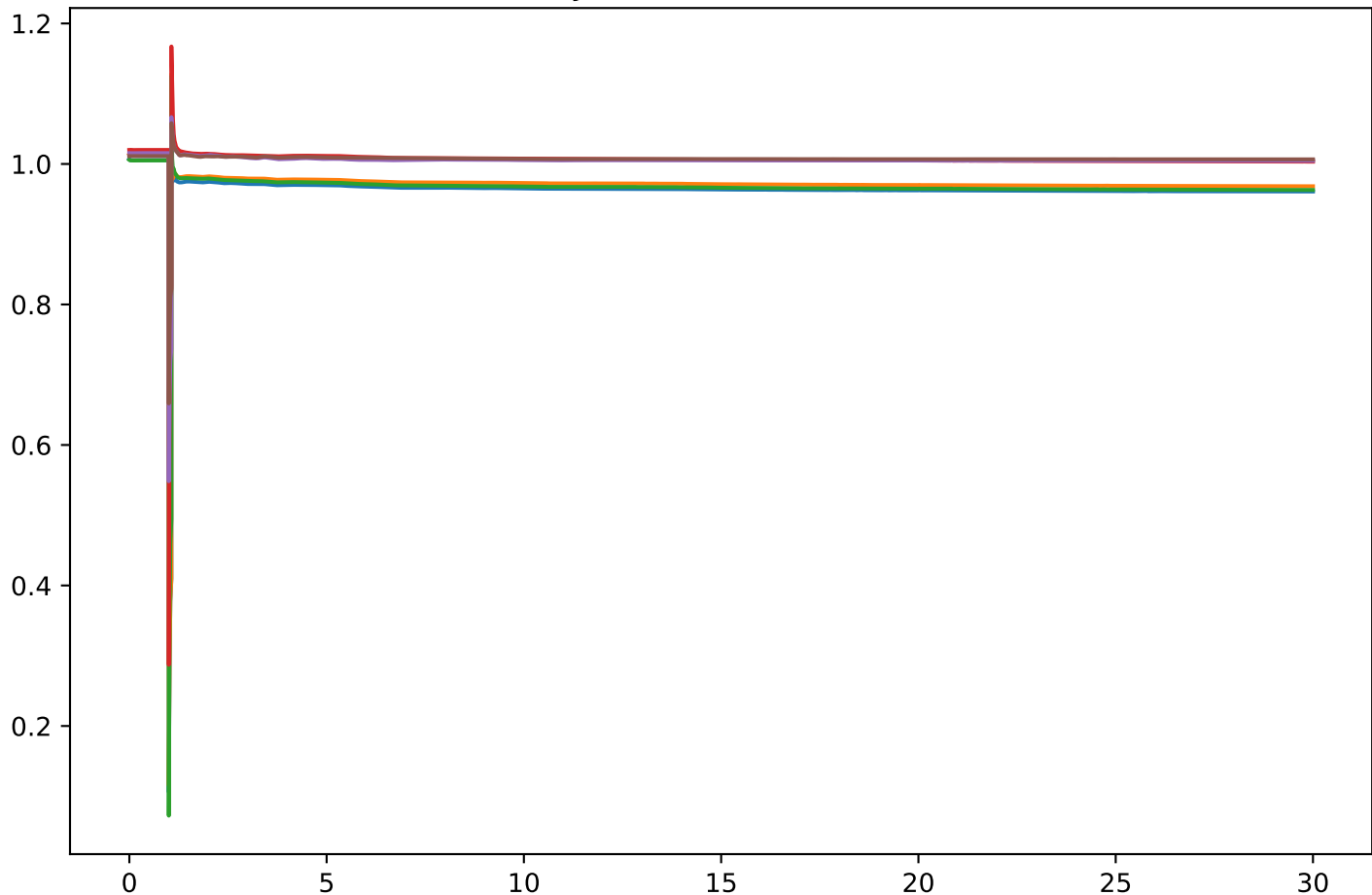
**2035 LLUVIOSA**

Caso: 1023-3-2035CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6851-6852-1-C1\_4LT500

### Frecuencia (Hz)

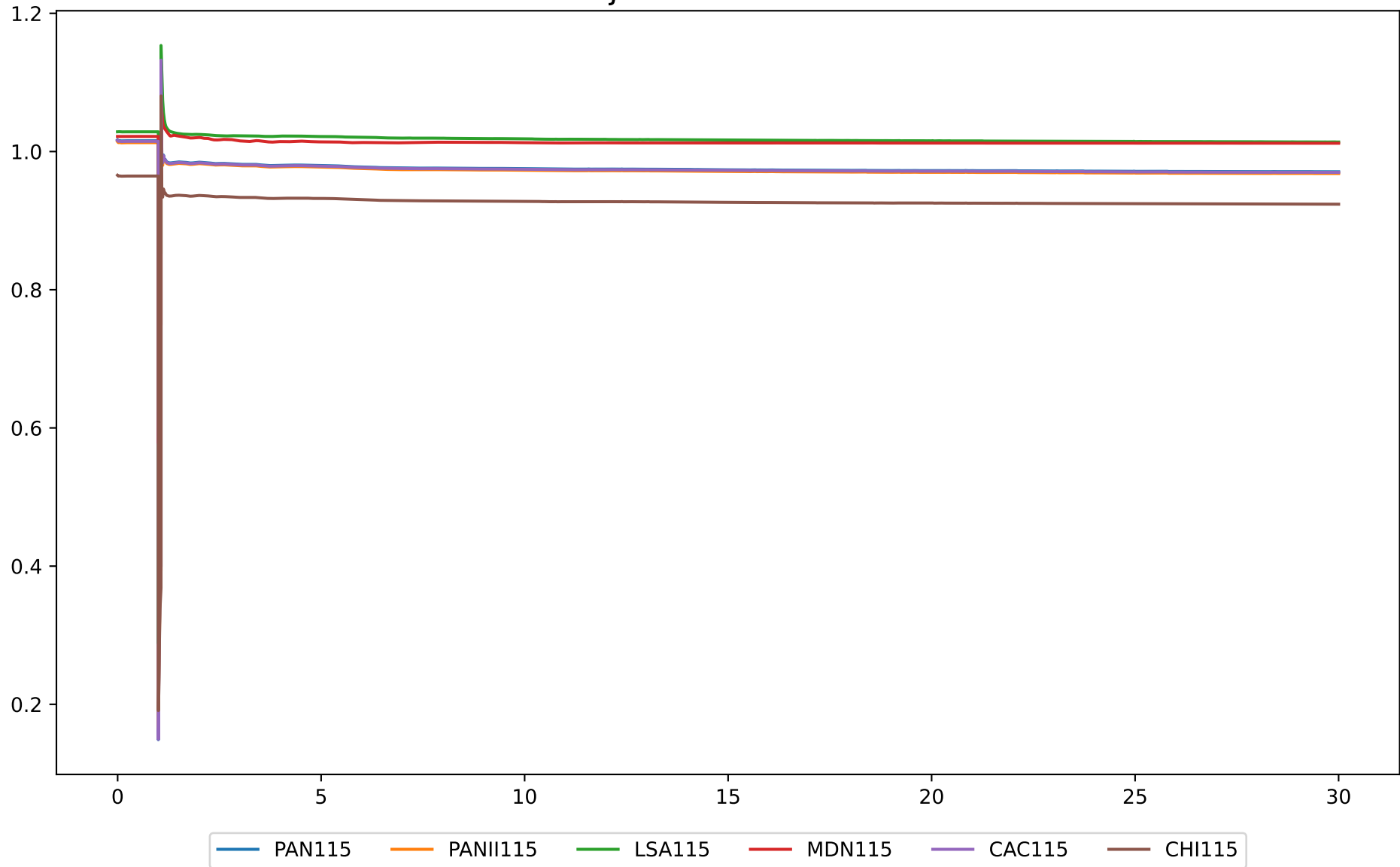


# Voltajes 230kV - Panama

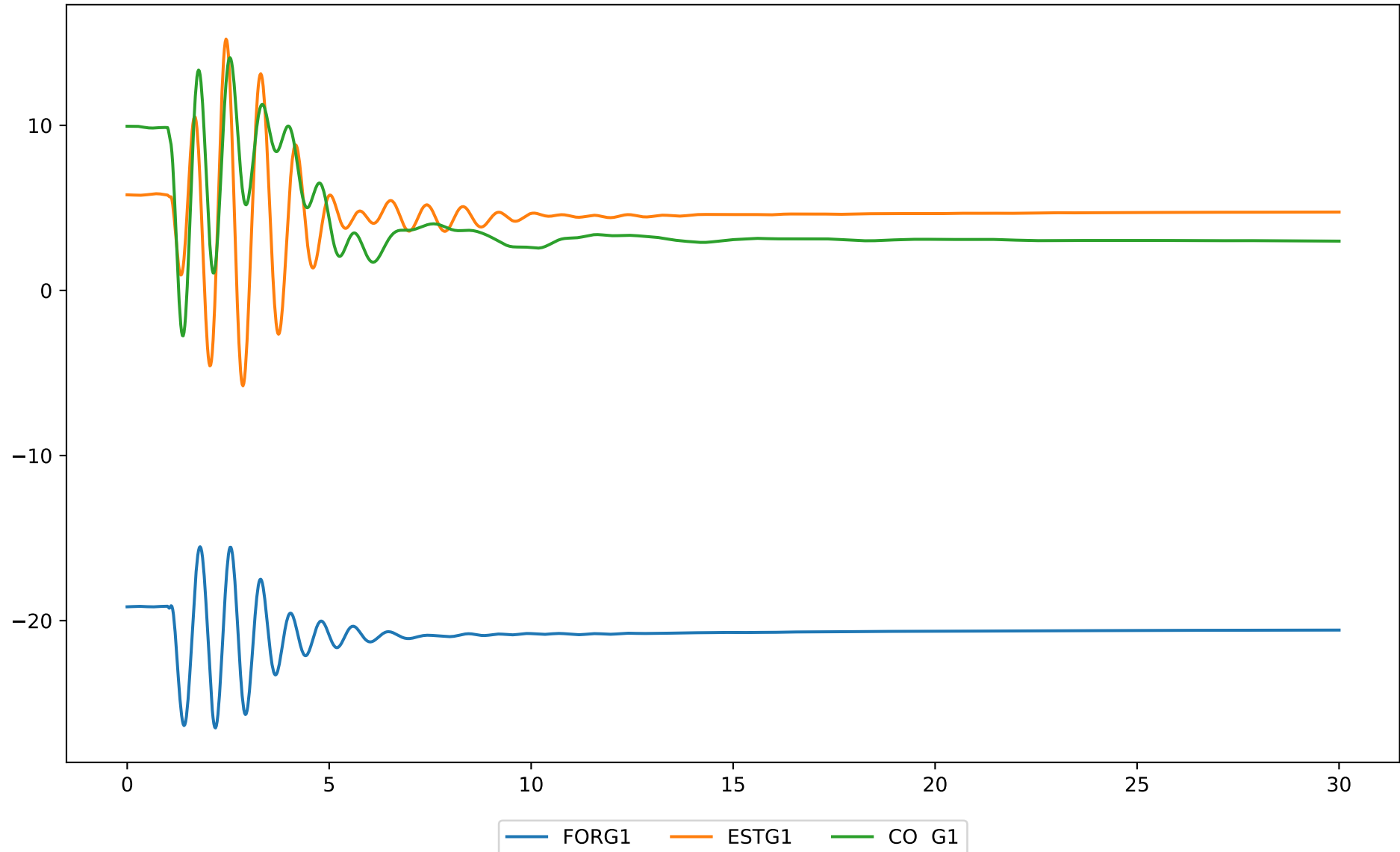


PAN230    PANII230    CHO230    LSA230    MDN230    PRO230

### Voltajes 115kV - Panama



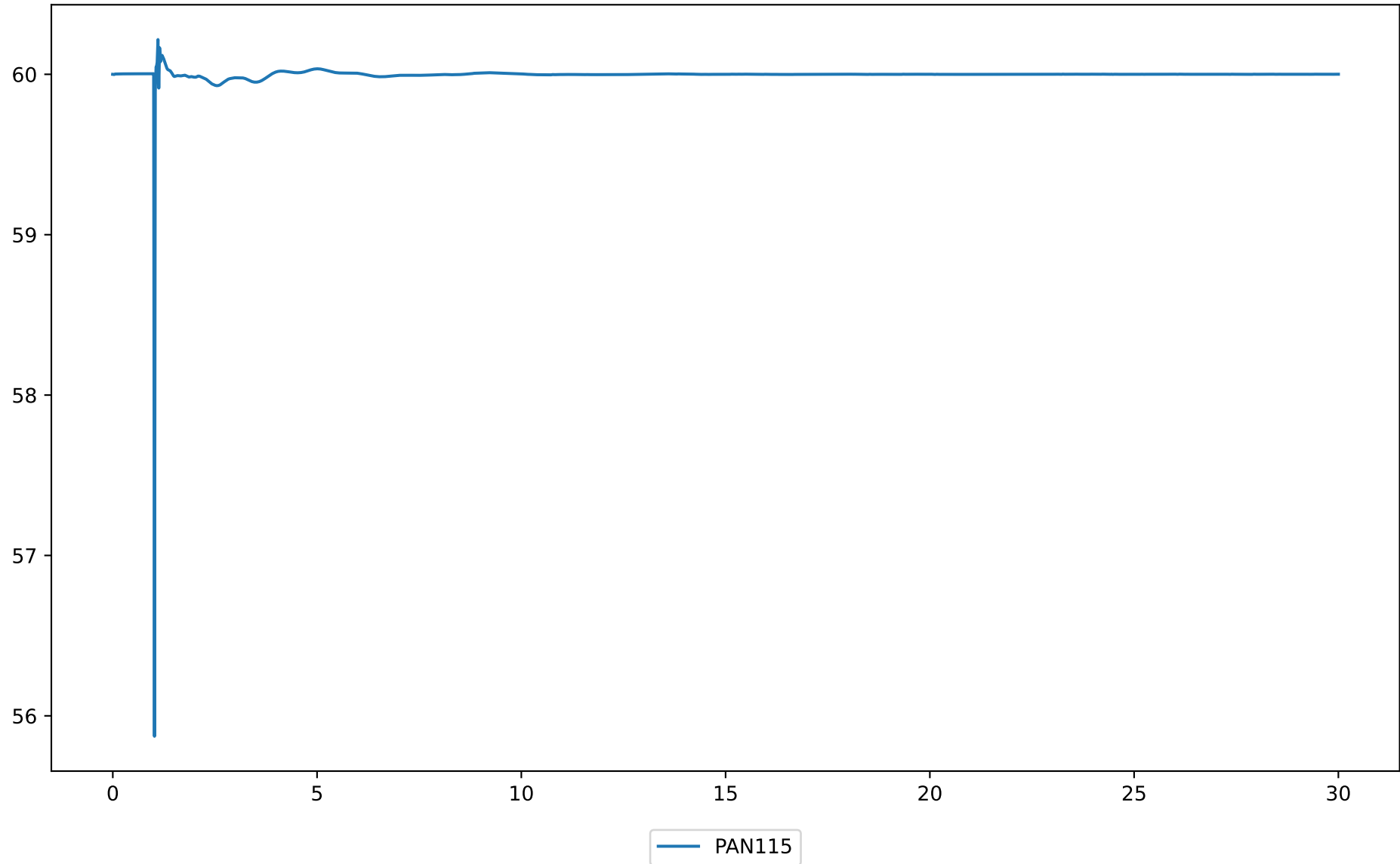
### Angulos de Rotacion de Maquinas - Panama



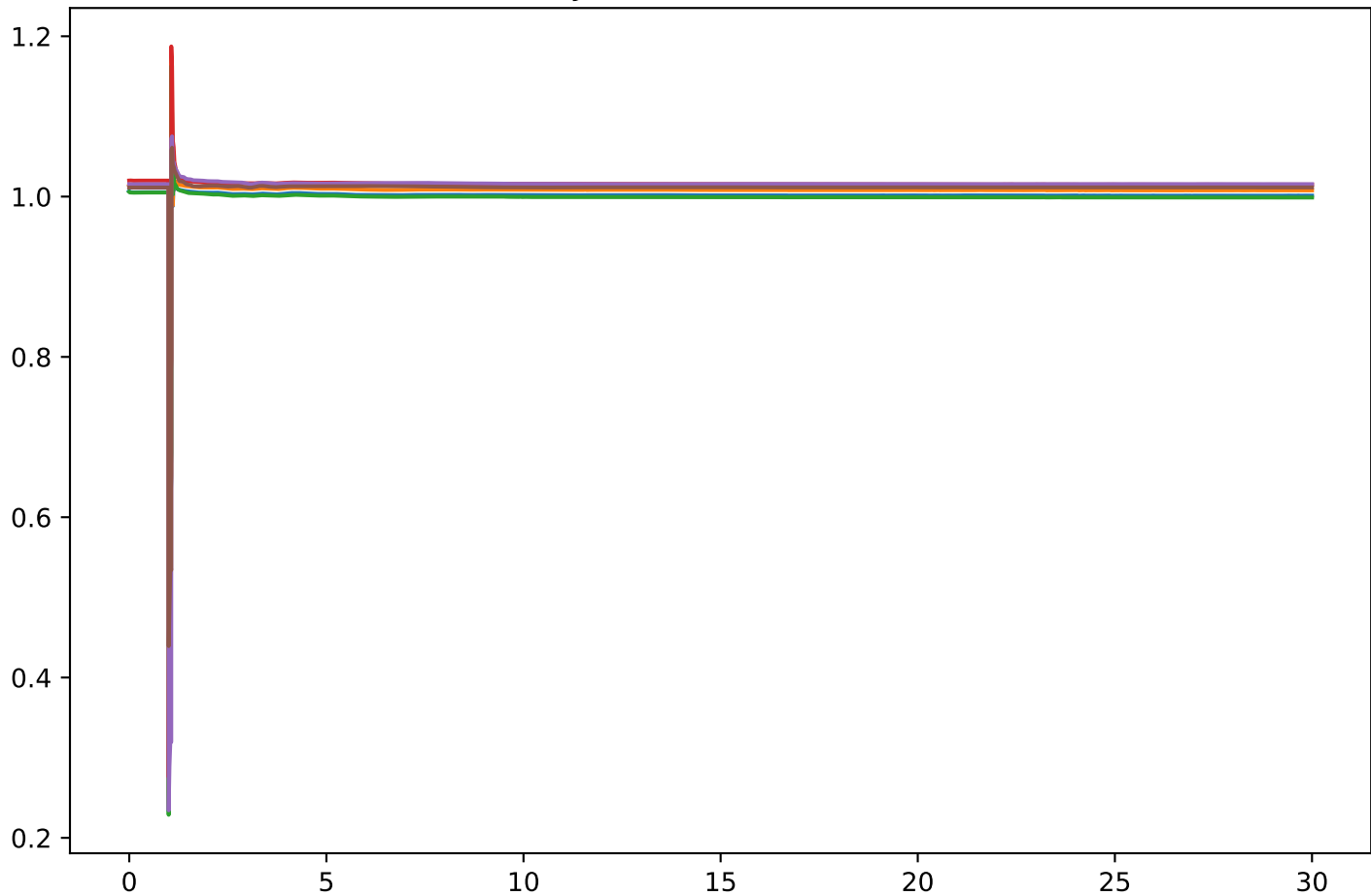


Caso: 1023-3-2035CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6096-6837-0A-C2\_FOR-CHG

### Frecuencia (Hz)

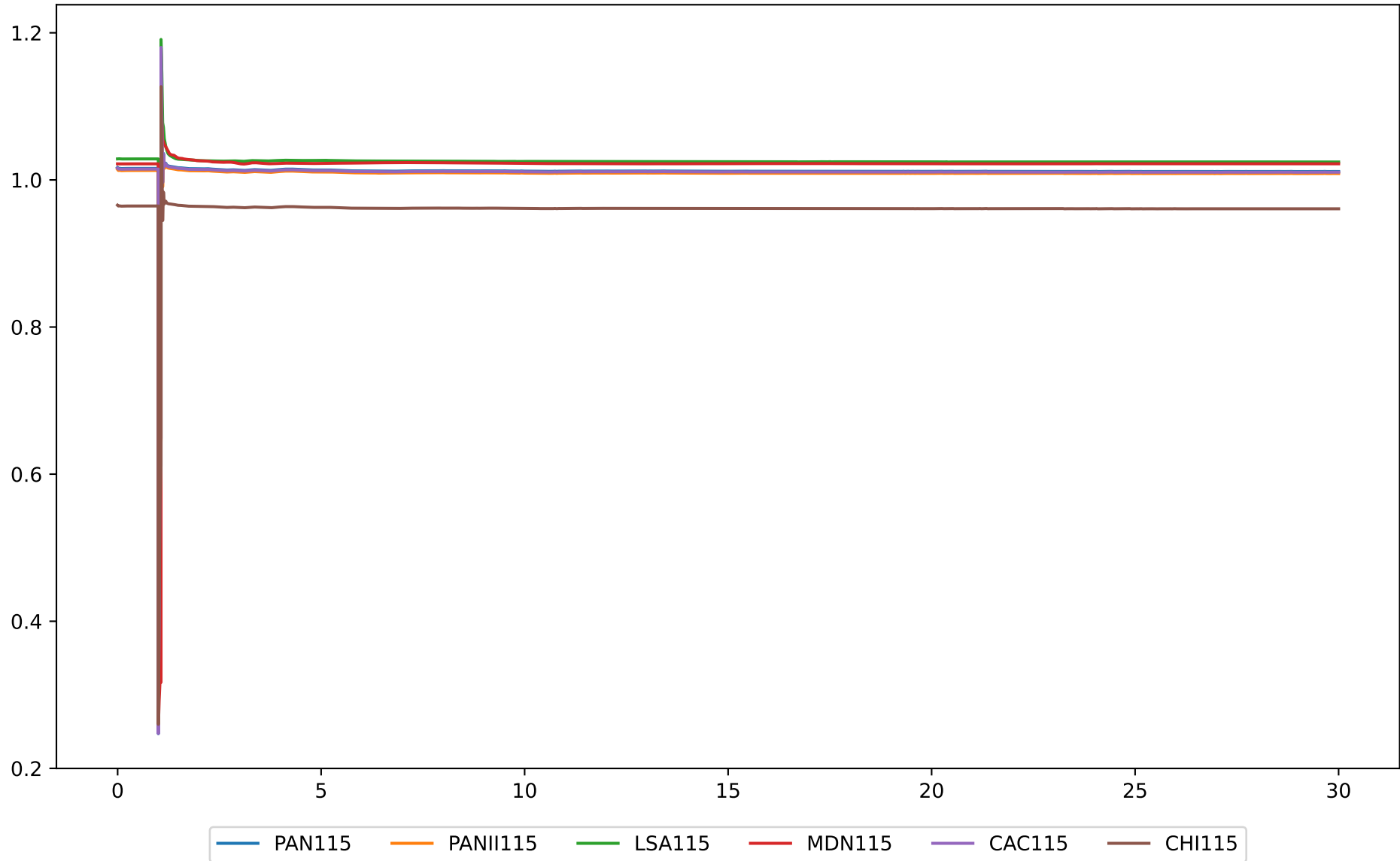


# Voltajes 230kV - Panama

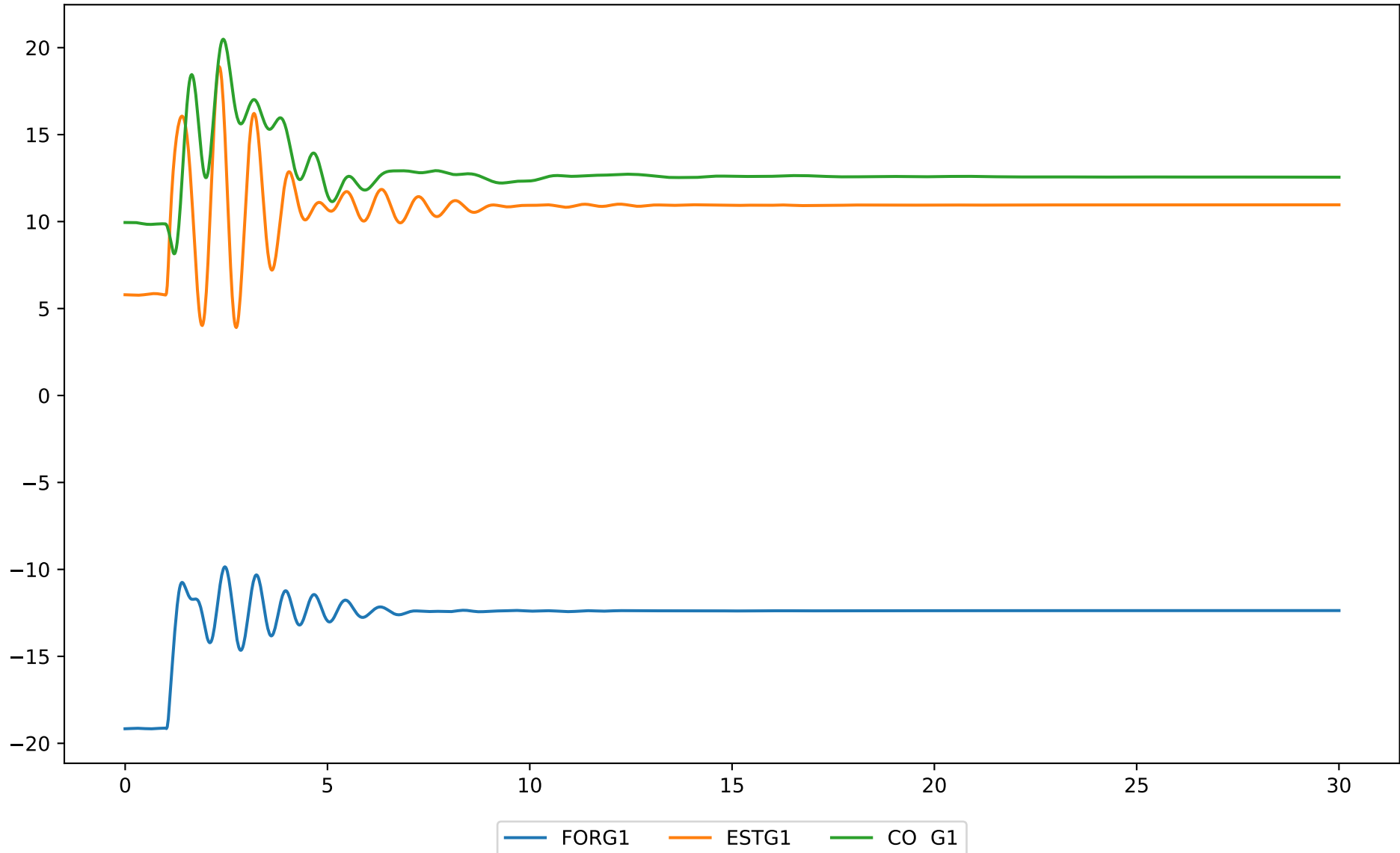


PAN230    PANII230    CHO230    LSA230    MDN230    PRO230

### Voltajes 115kV - Panama

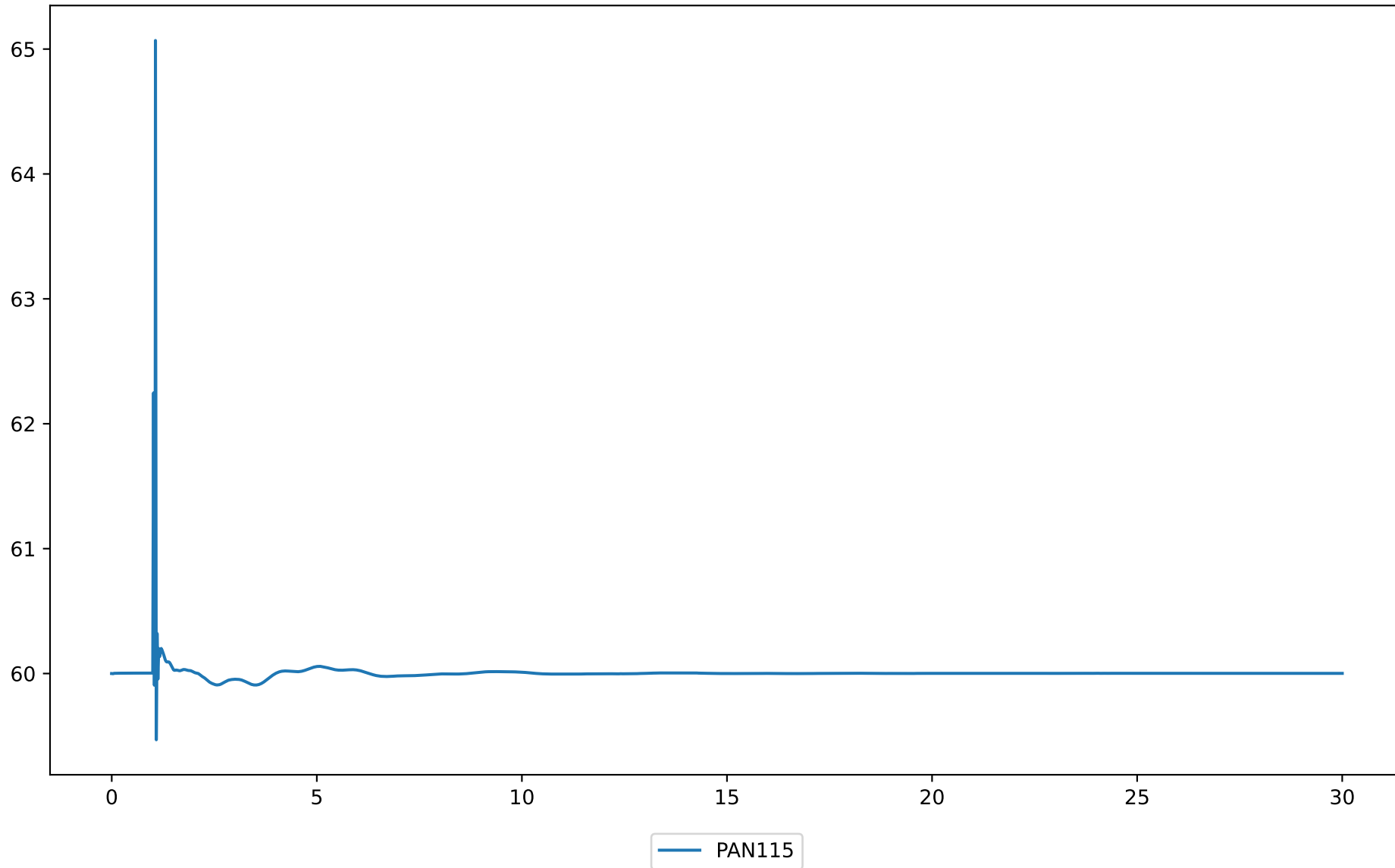


### Angulos de Rotacion de Maquinas - Panama

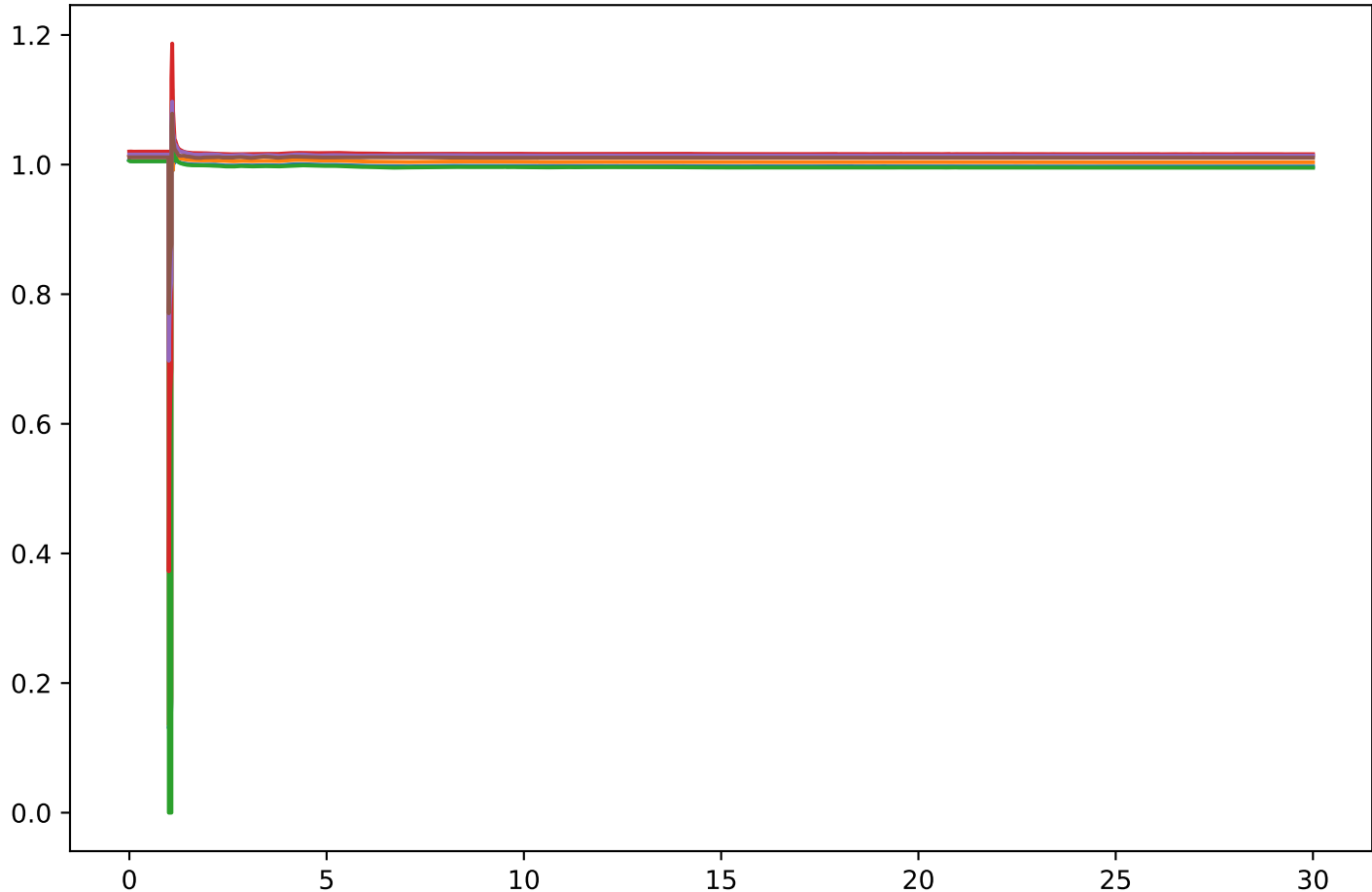


Caso: 1023-3-2035CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6005-6830-9A-C3\_CHO-ANT

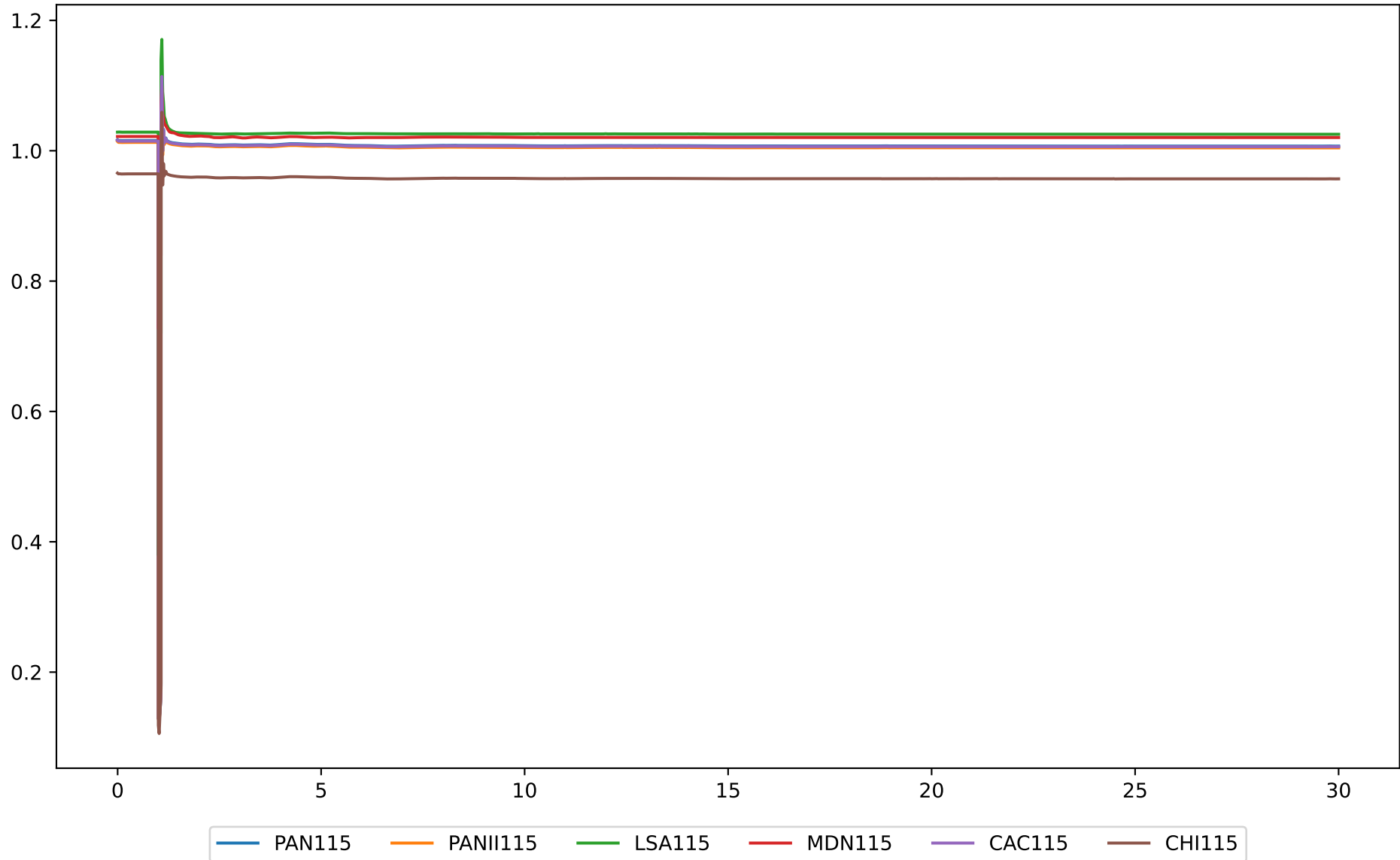
### Frecuencia (Hz)



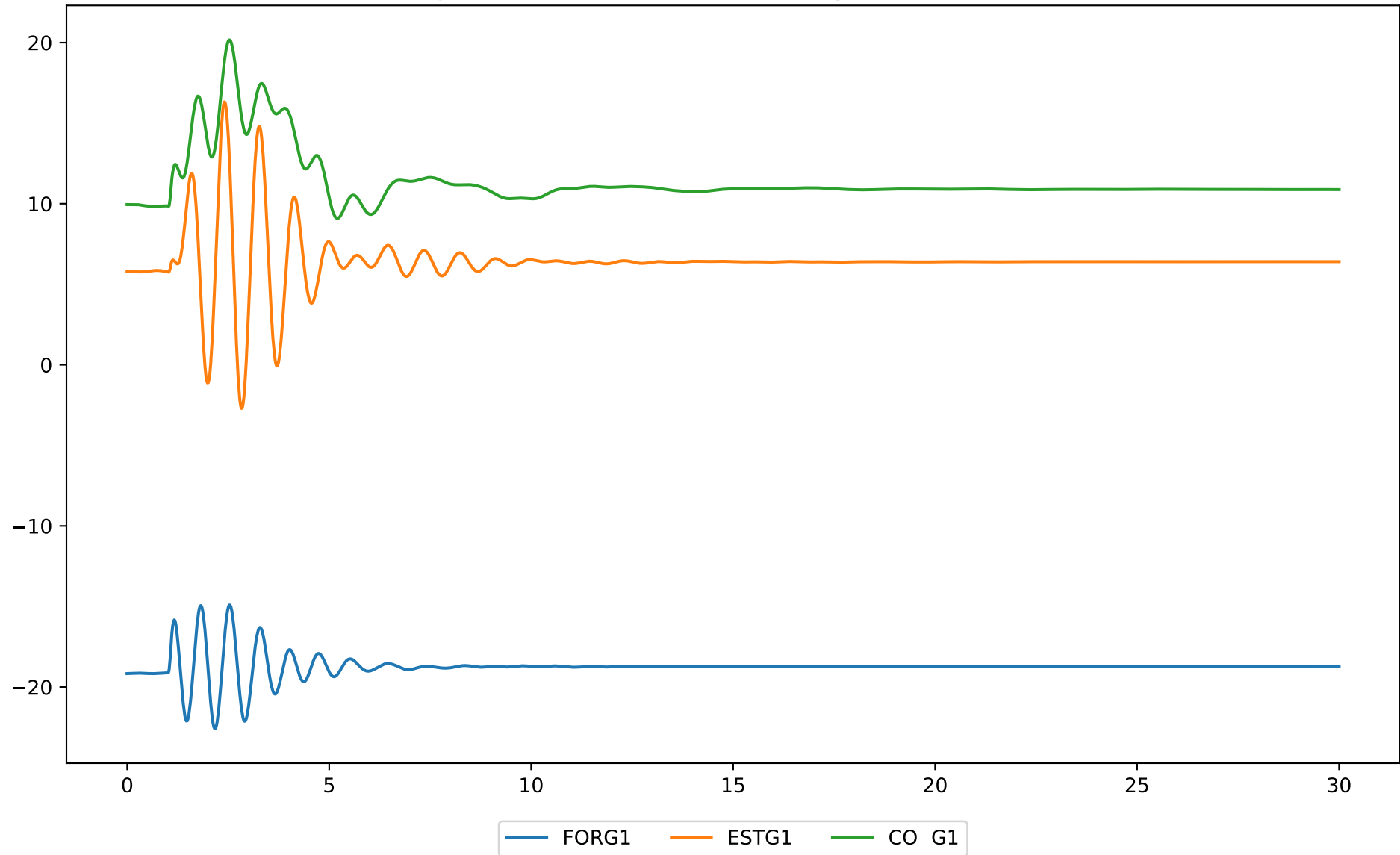
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama



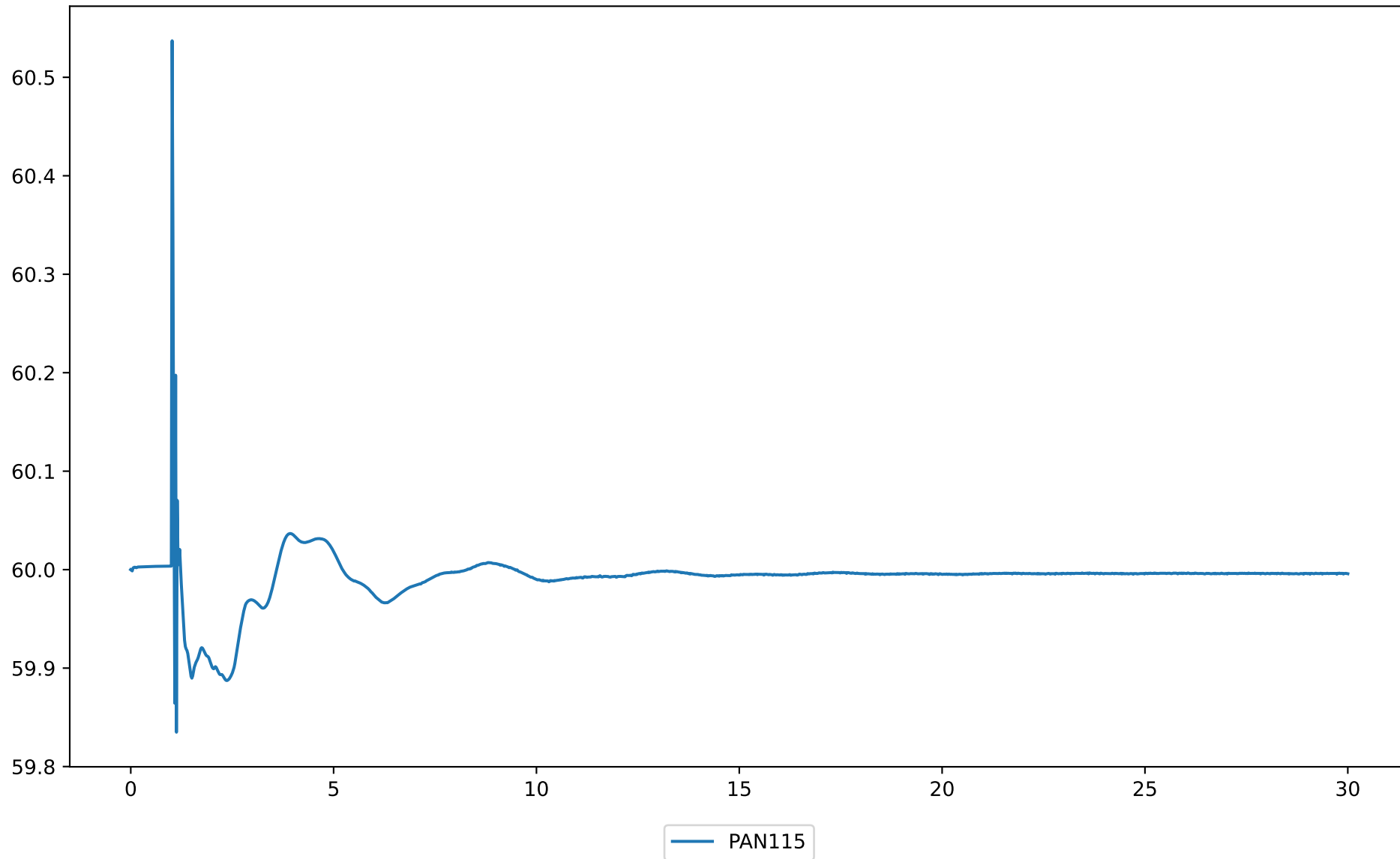
### Angulos de Rotacion de Maquinas - Panama



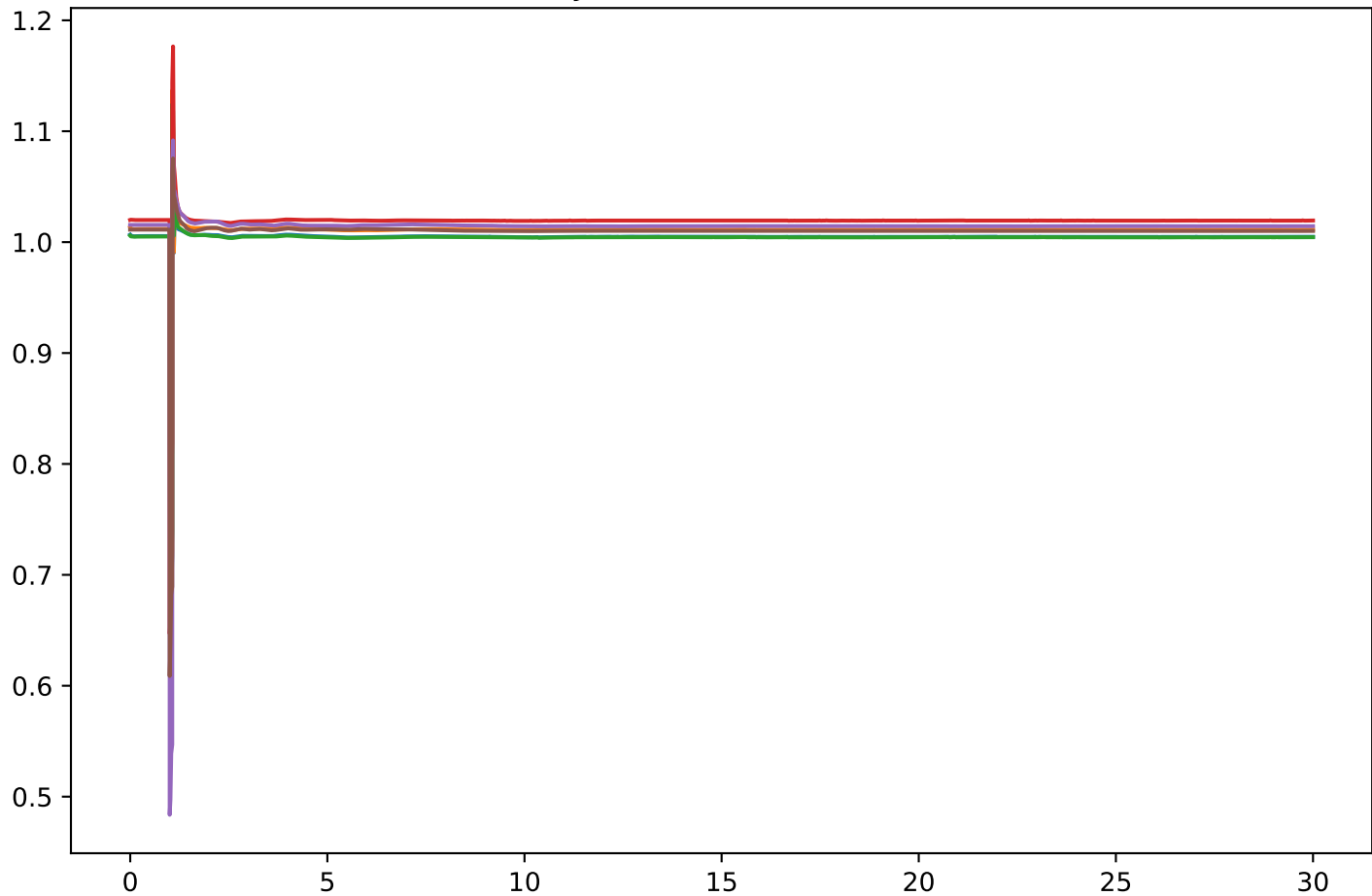


Caso: 1023-3-2035CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6178-6179-19-C4\_ESTI

### Frecuencia (Hz)

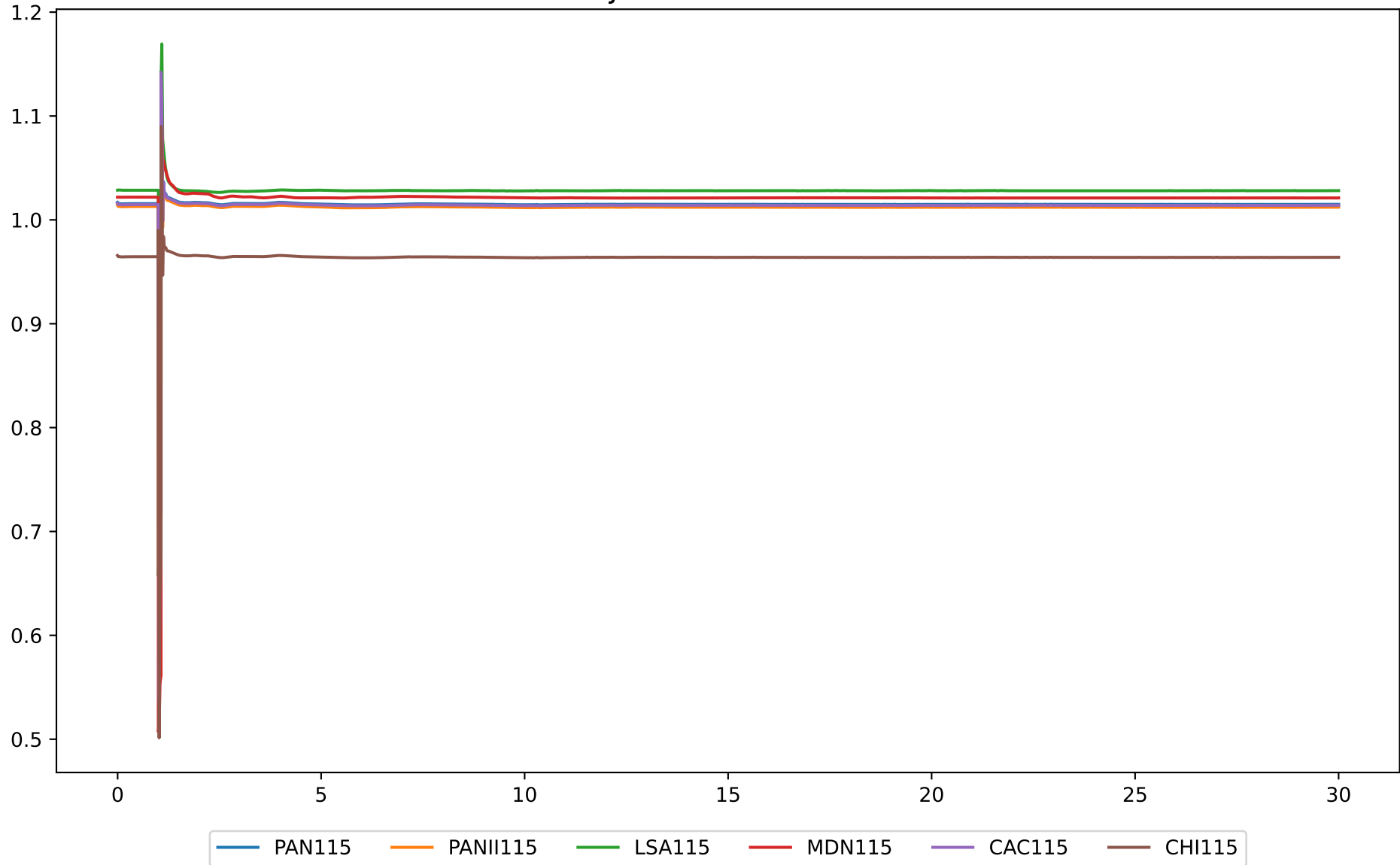


# Voltajes 230kV - Panama

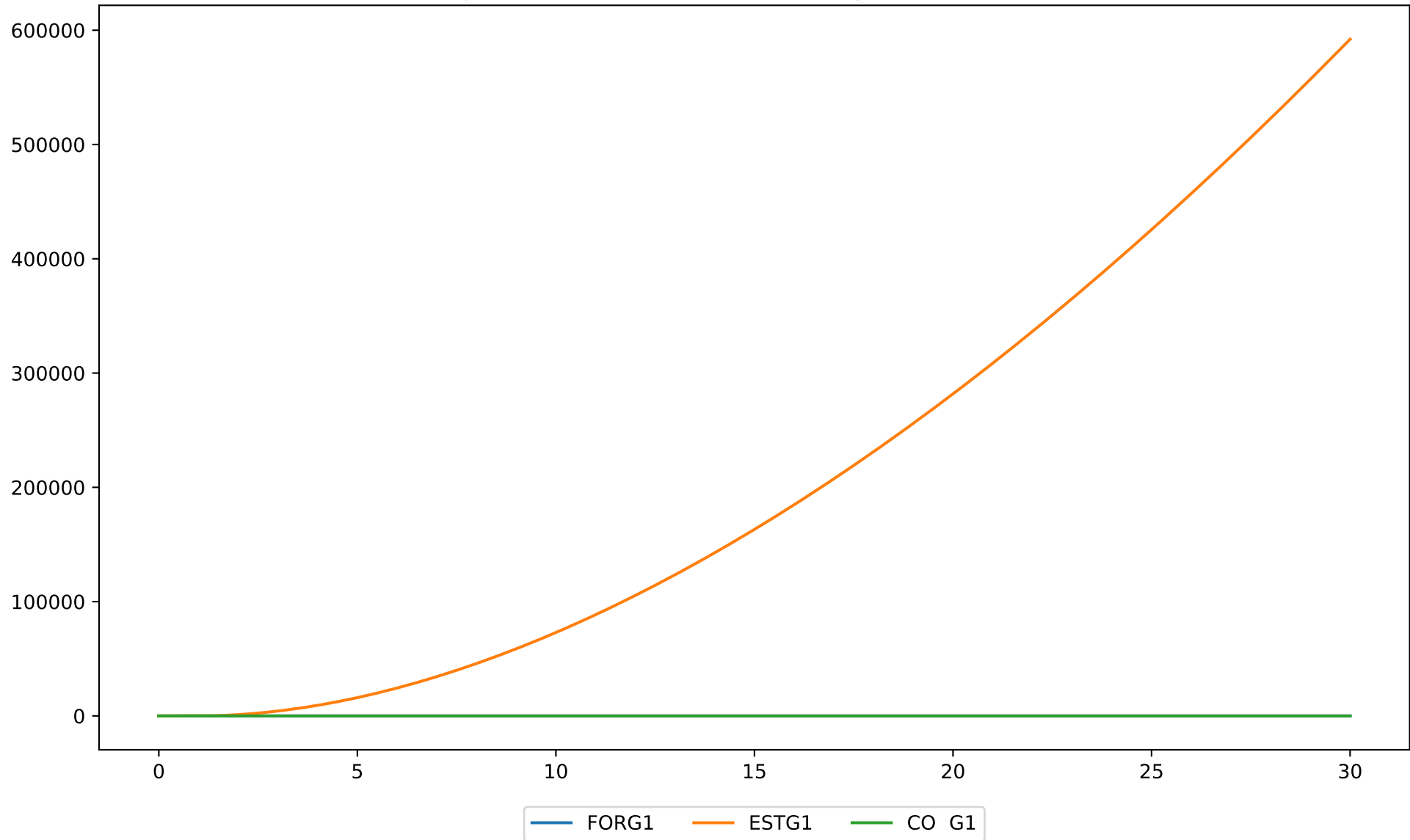


PAN230    PANII230    CHO230    LSA230    MDN230    PRO230

### Voltajes 115kV - Panama

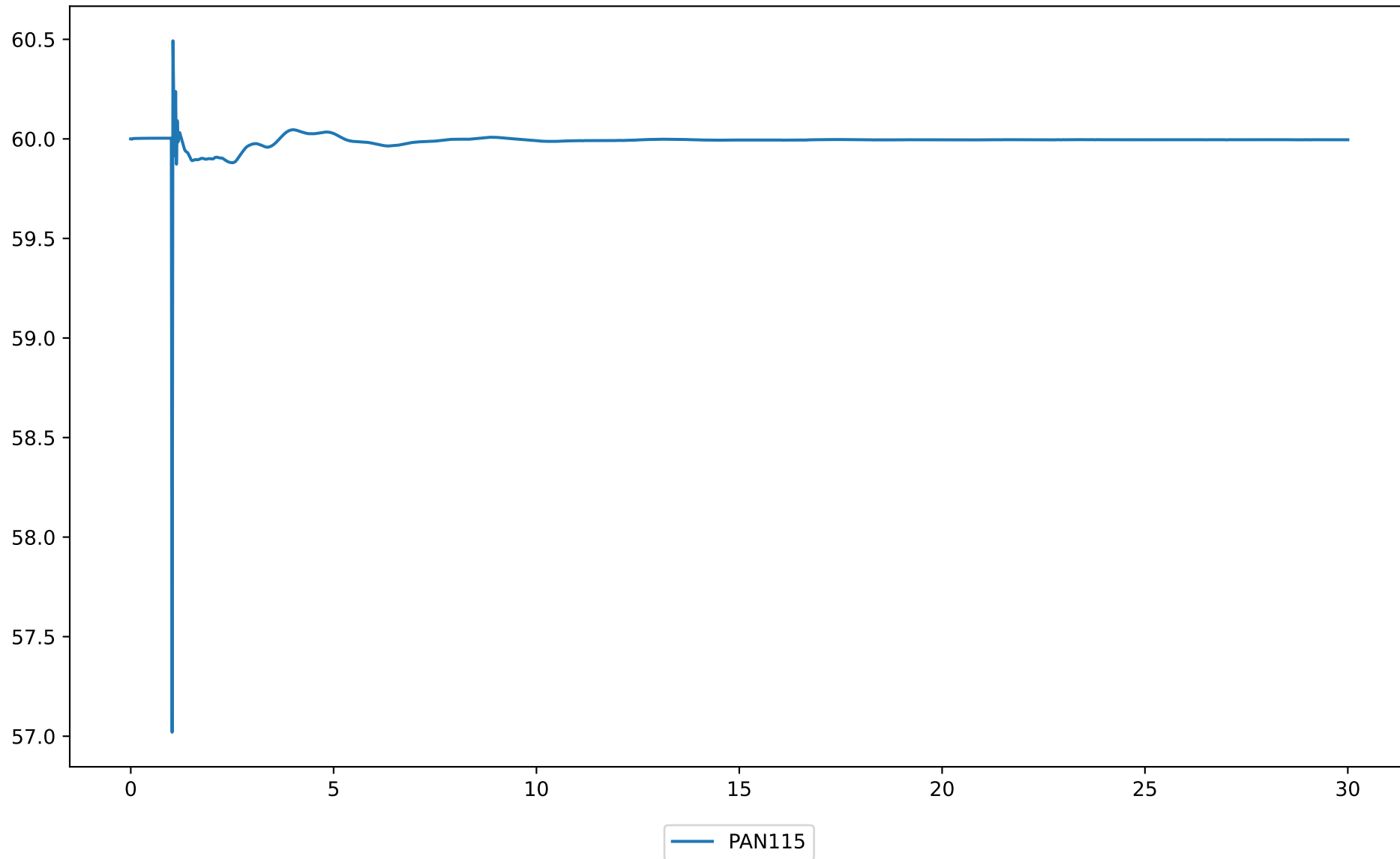


### Angulos de Rotacion de Maquinas - Panama

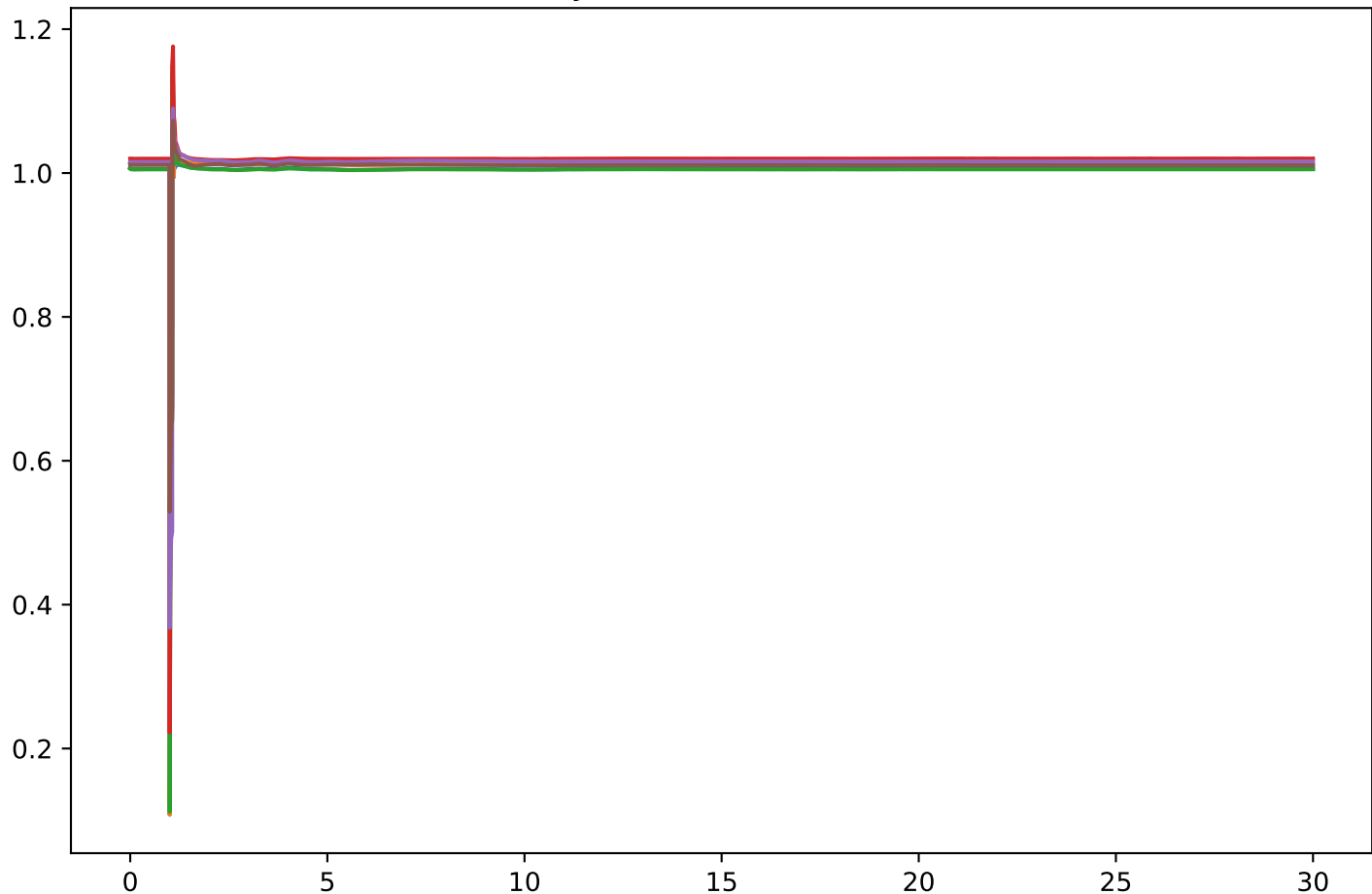


Caso: 1023-3-2035CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6179-6360-22-C5\_GUA-GLA

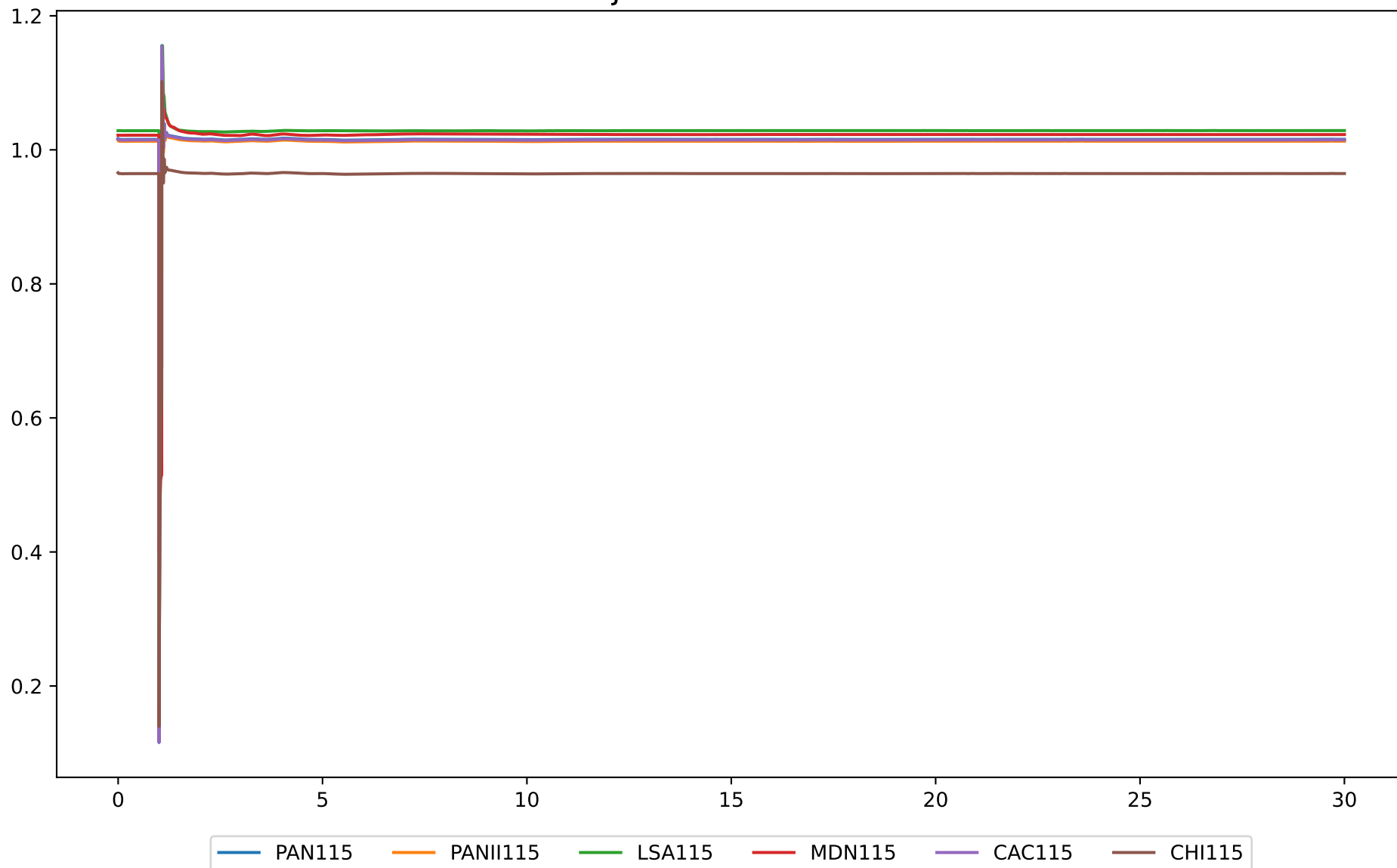
### Frecuencia (Hz)



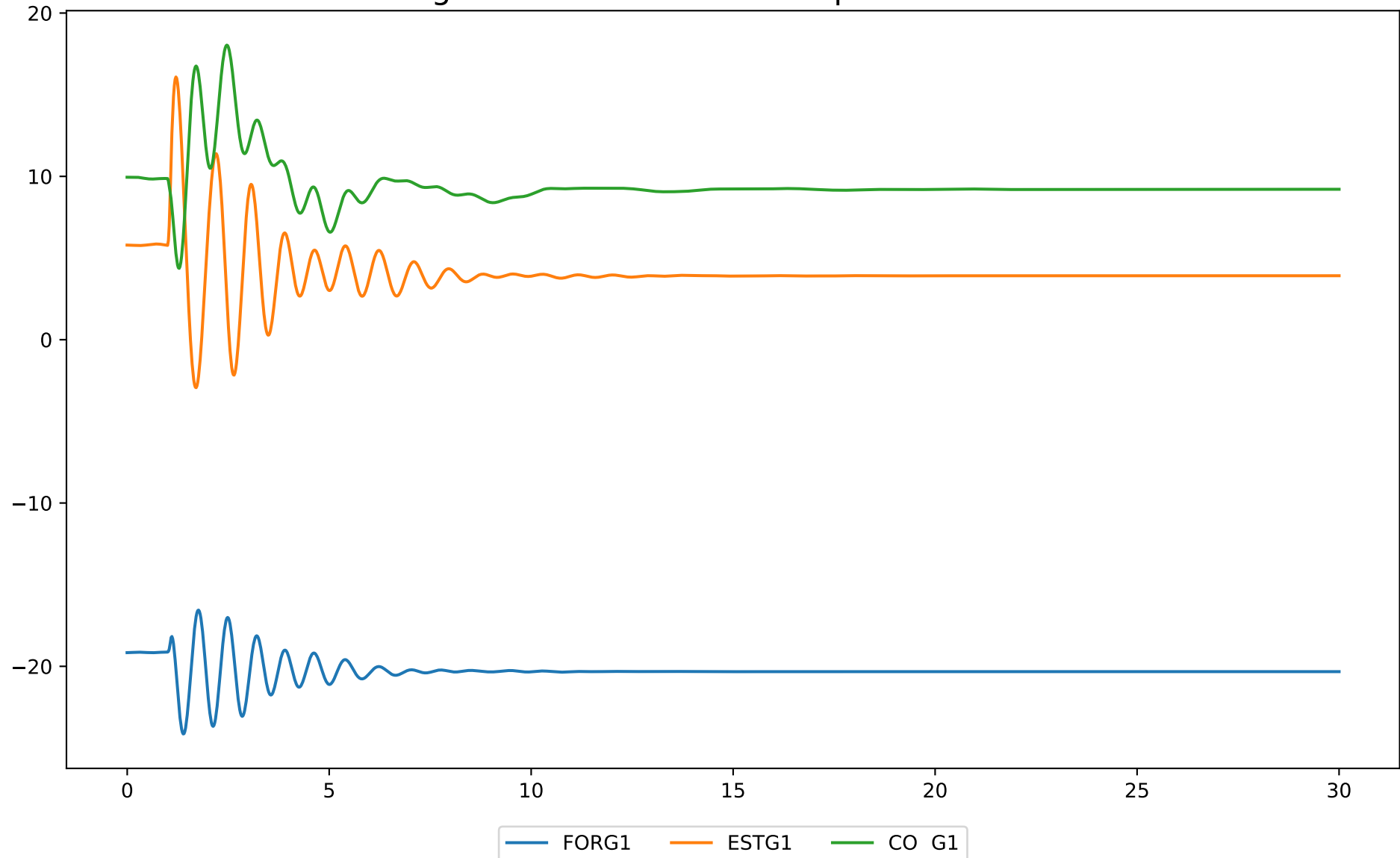
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama



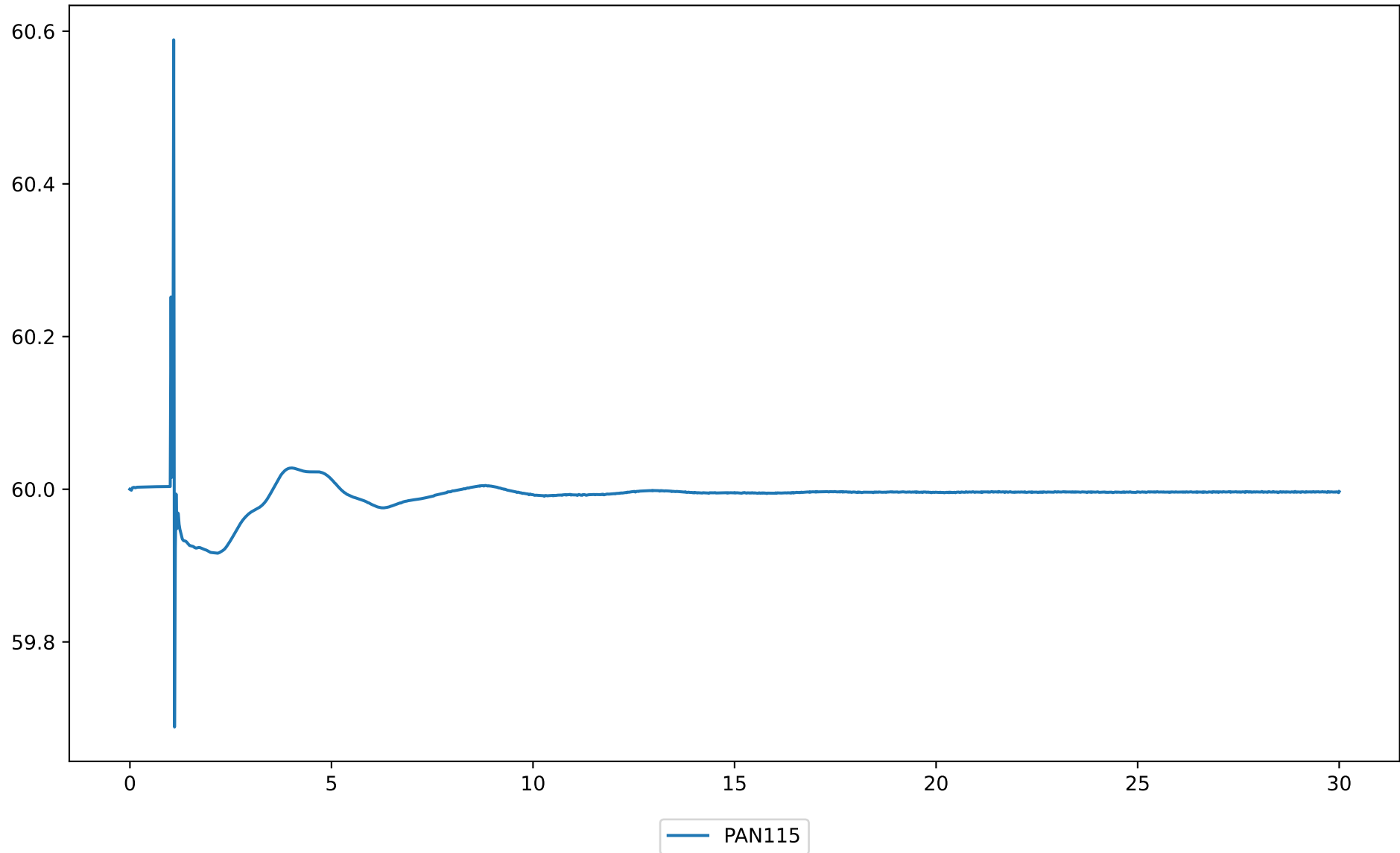
### Angulos de Rotacion de Maquinas - Panama



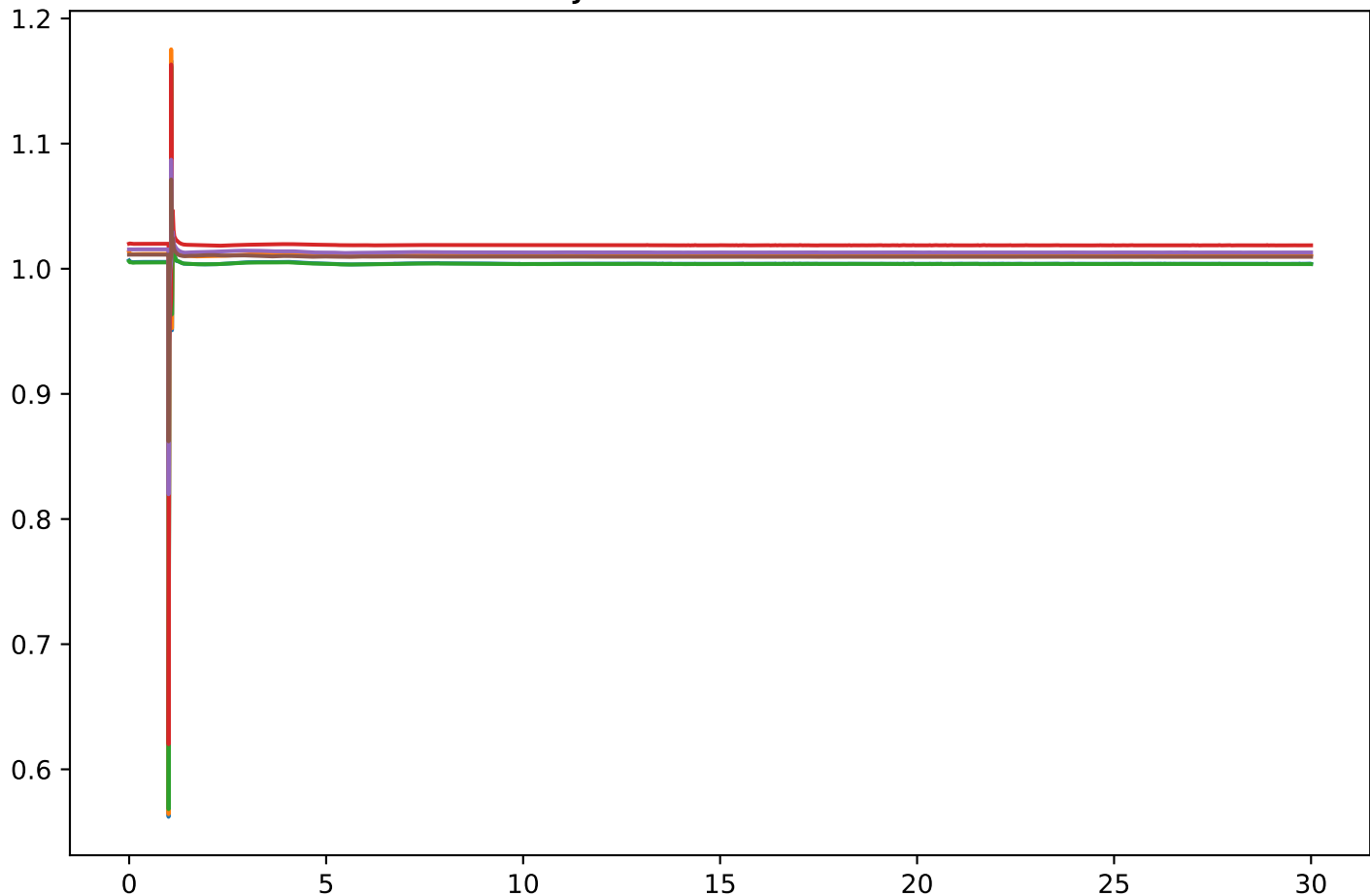


Caso: 1023-3-2035CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6207-6460-T1-C6\_ECO-CSO1

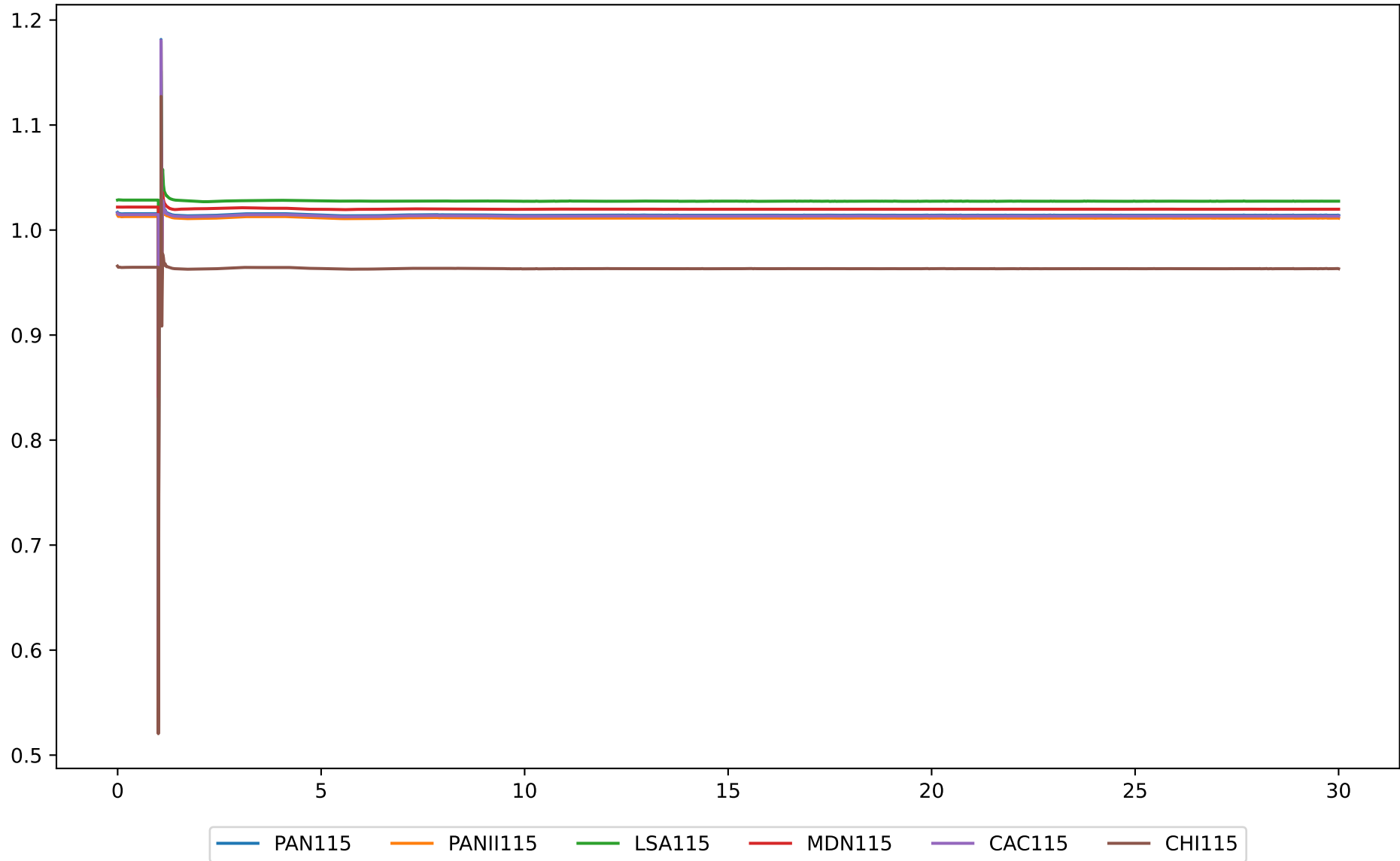
### Frecuencia (Hz)



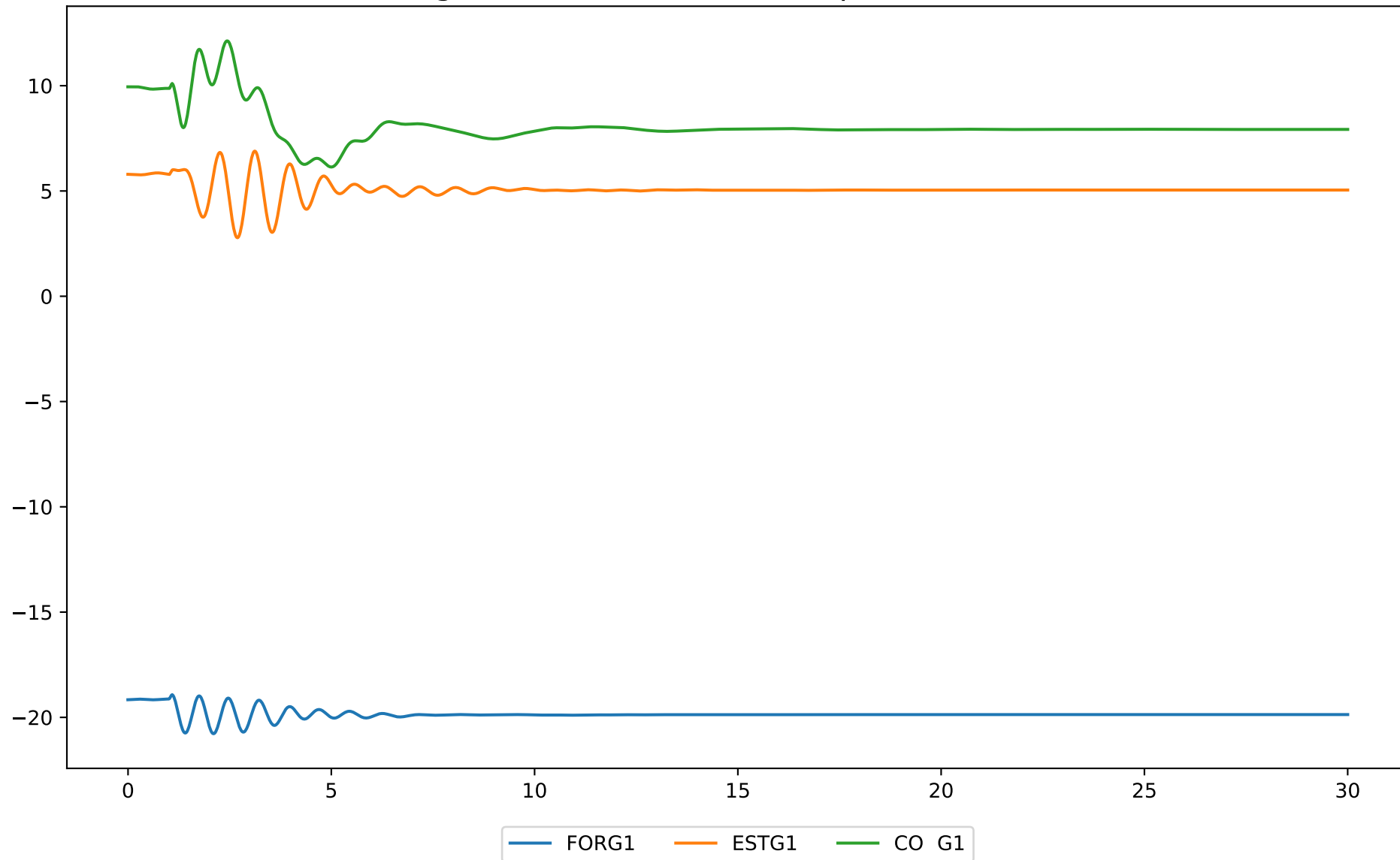
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

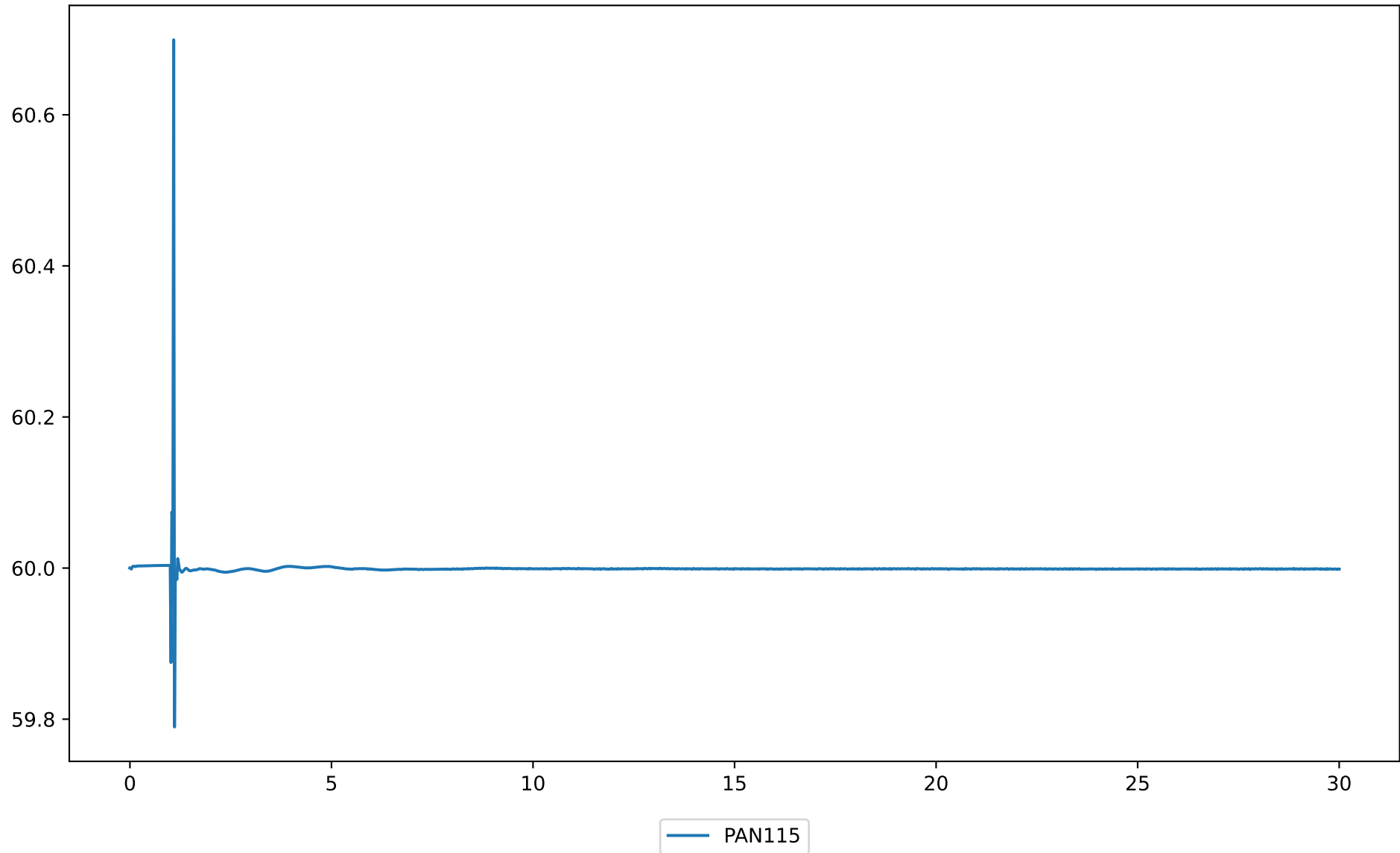


### Angulos de Rotacion de Maquinas - Panama

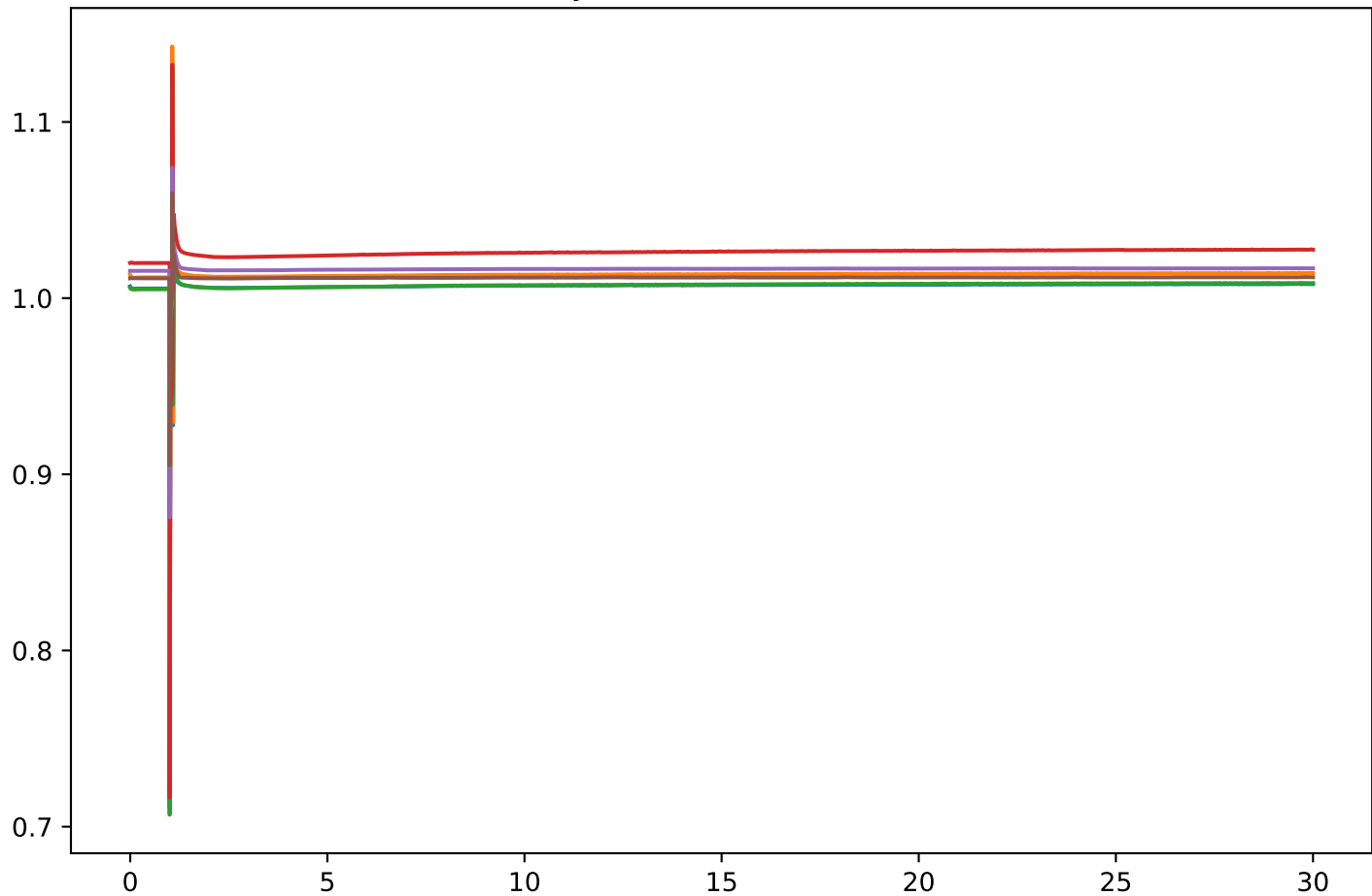


Caso: 1023-3-2035CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6812-6811-T4-C7\_STC-LSA

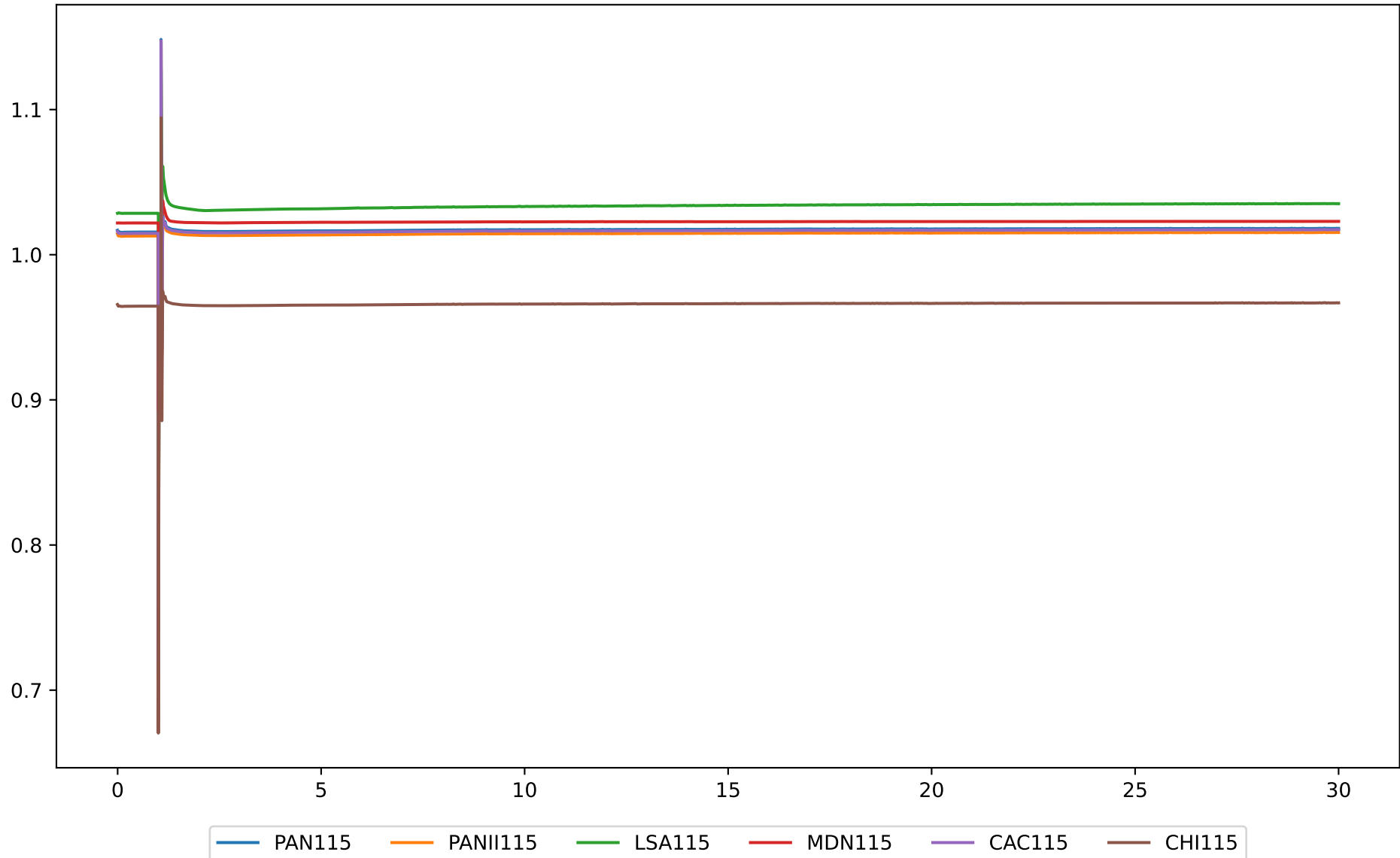
### Frecuencia (Hz)



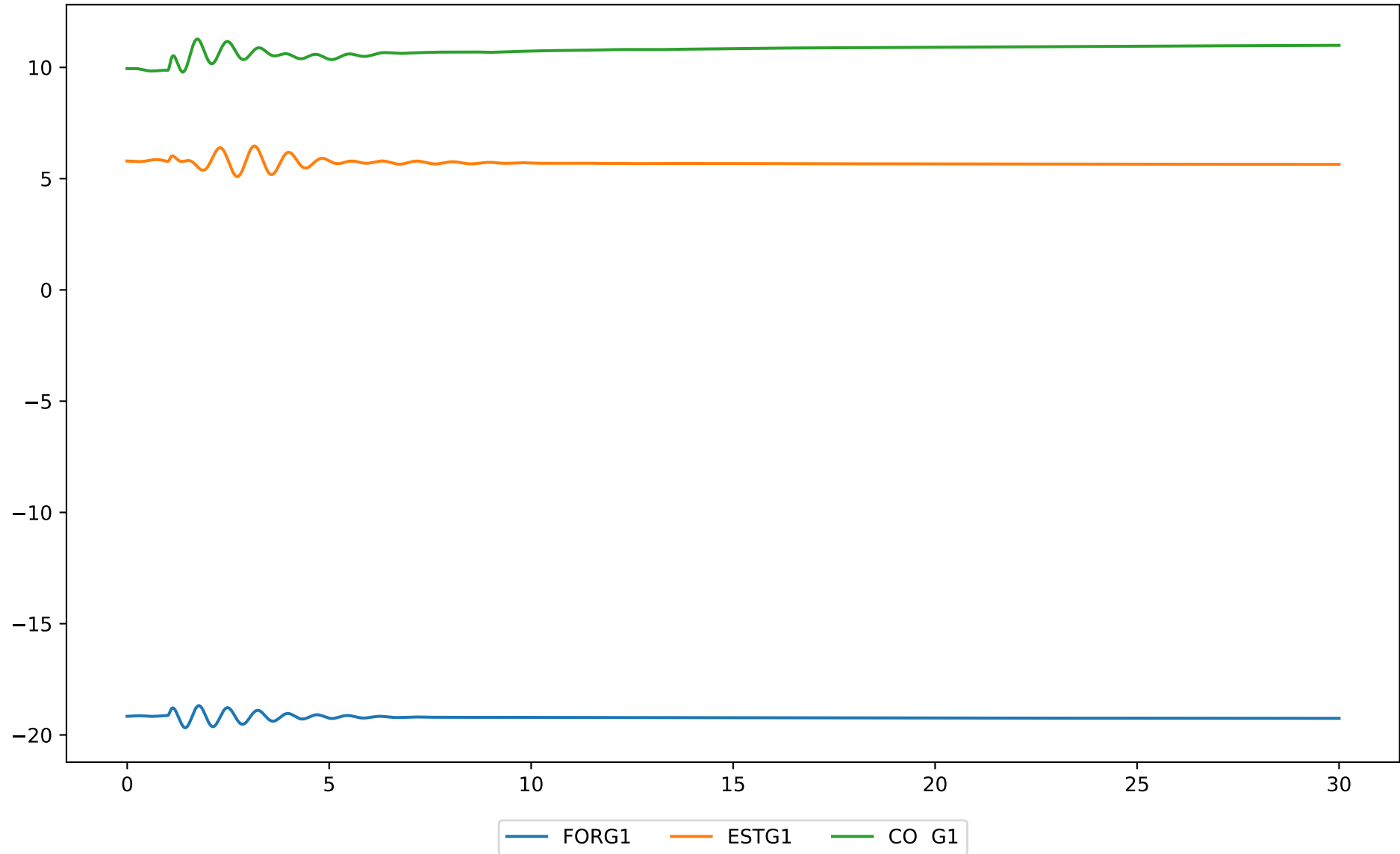
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama



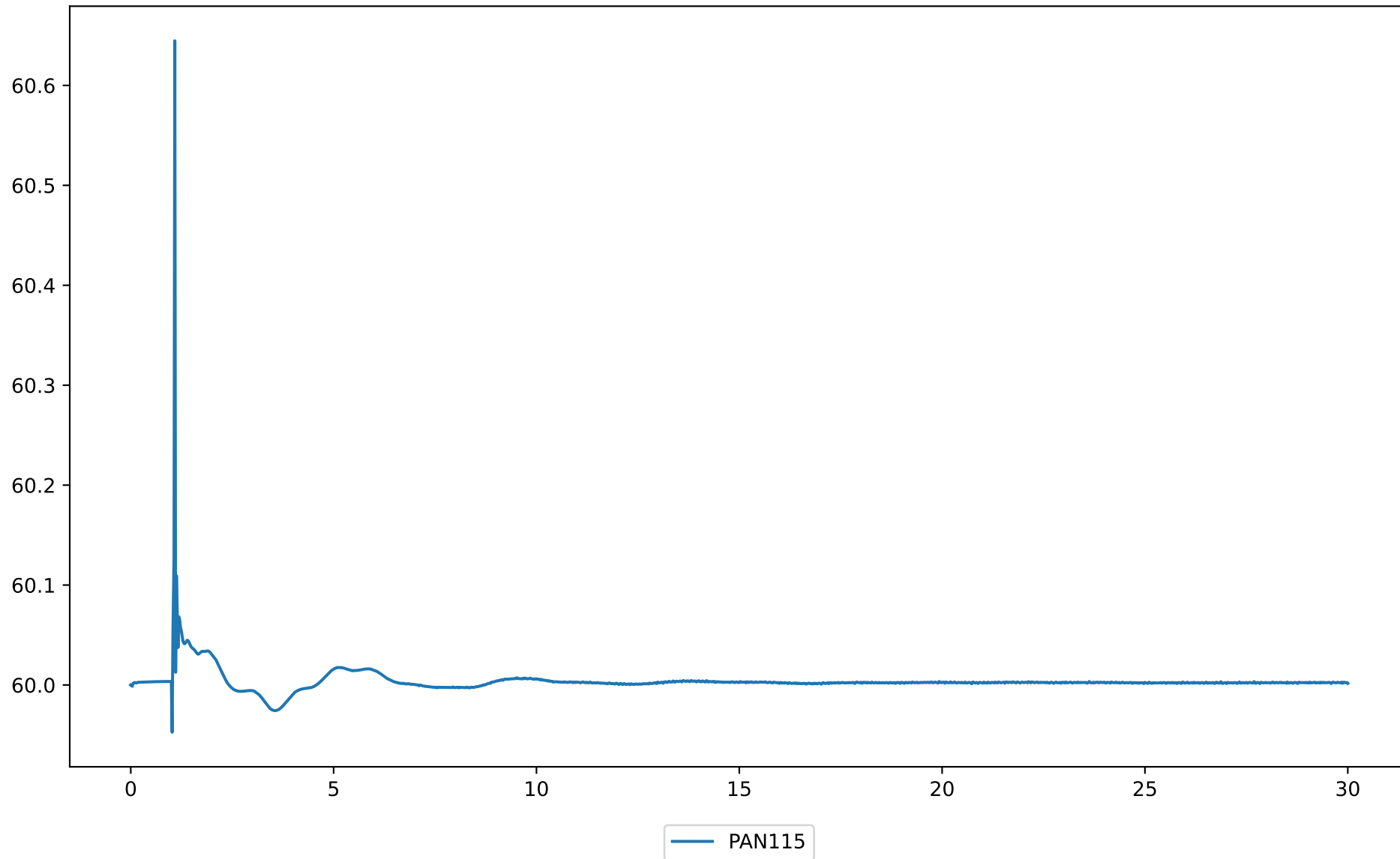
### Angulos de Rotacion de Maquinas - Panama



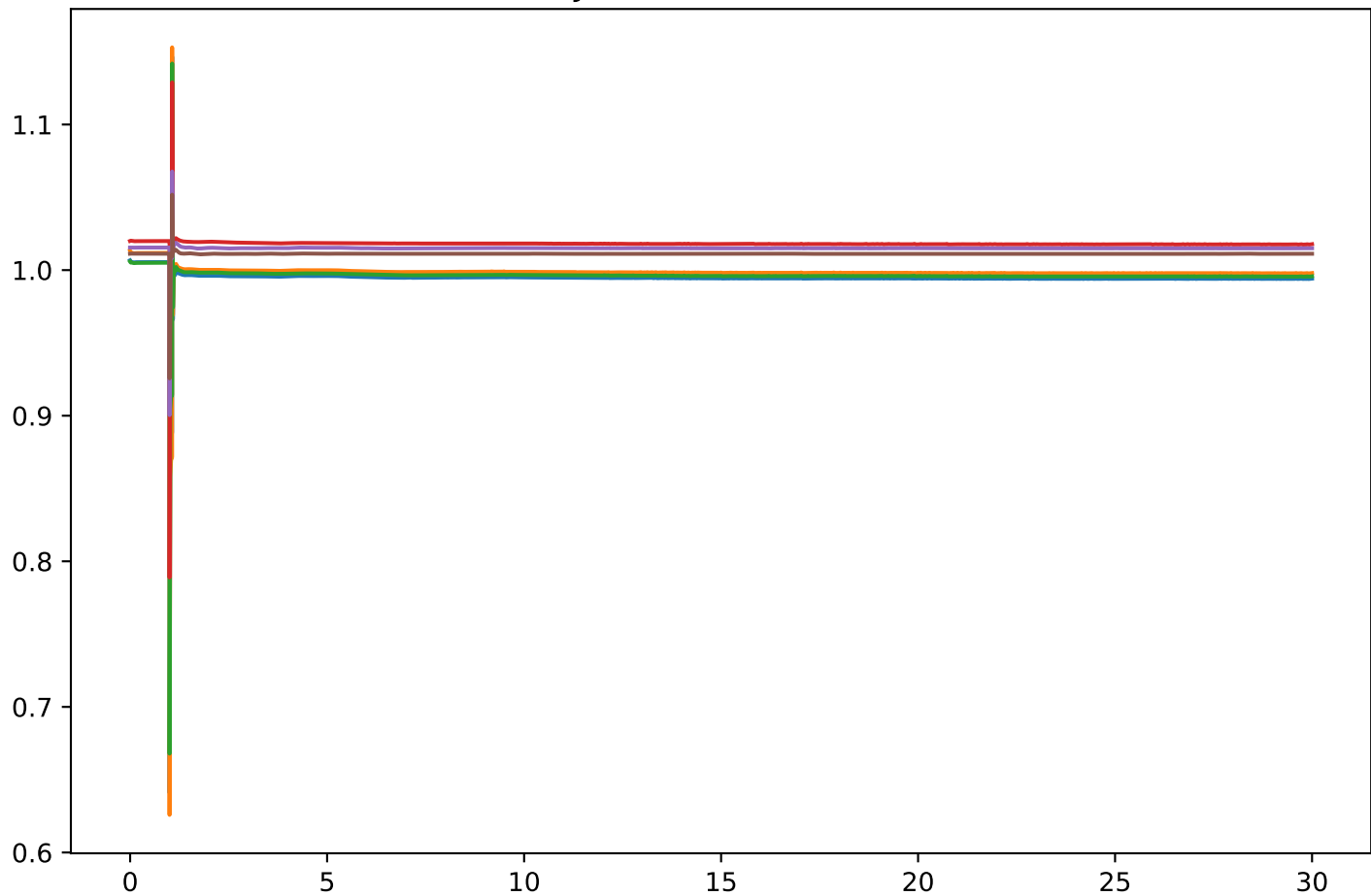


Caso: 1023-3-2035CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6817-6816-T4-C8\_STC-PANII

### Frecuencia (Hz)



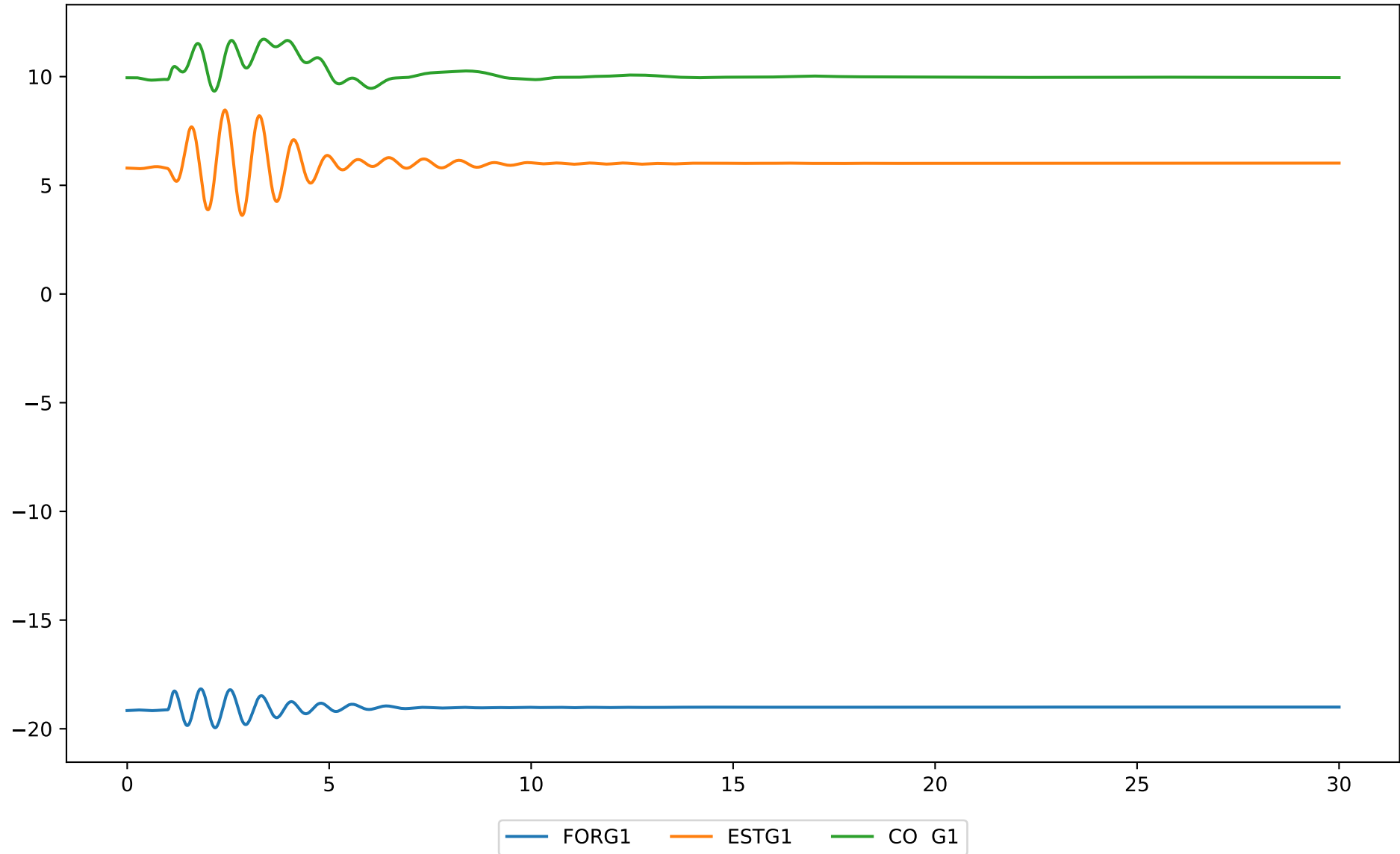
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

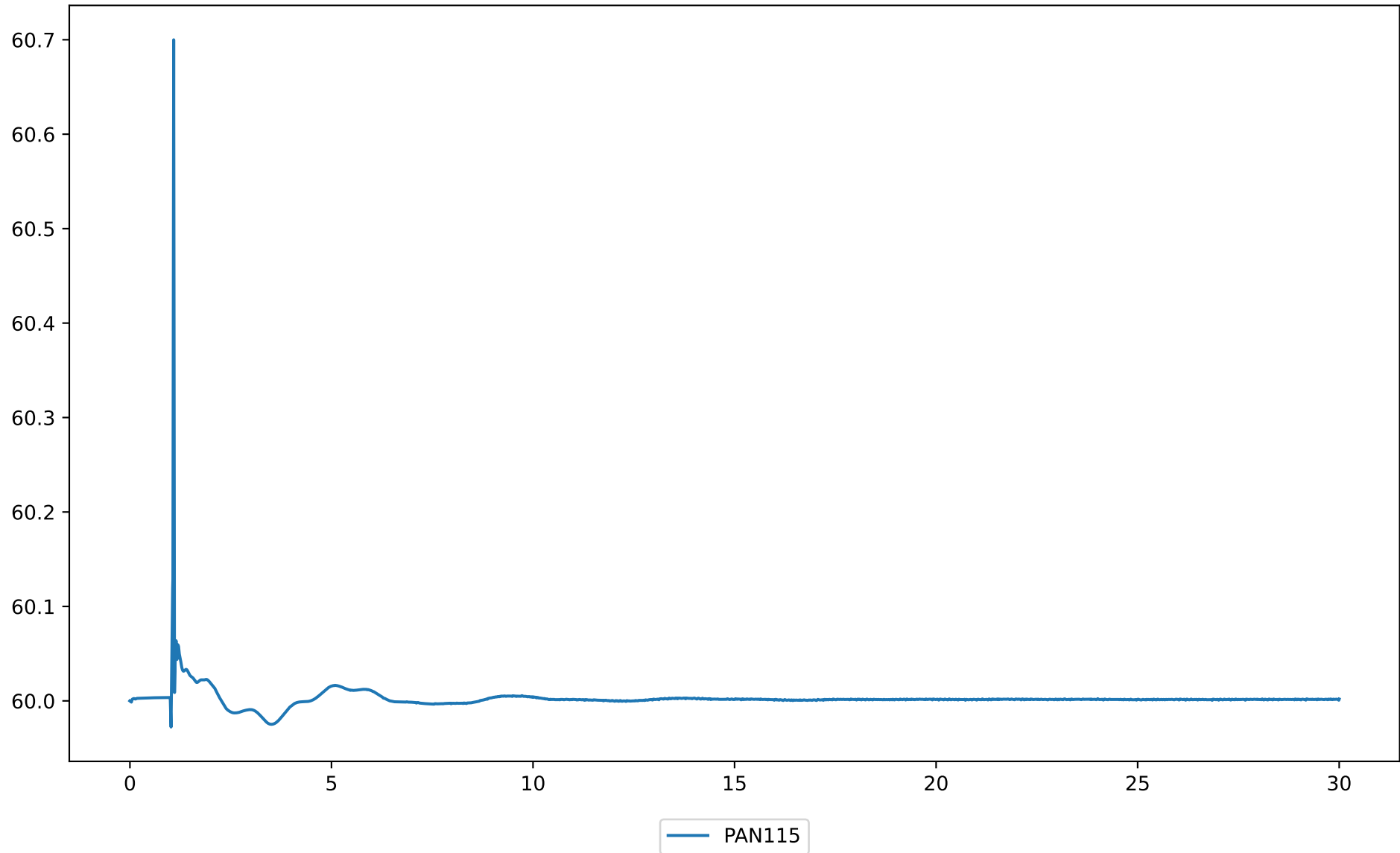


### Angulos de Rotacion de Maquinas - Panama

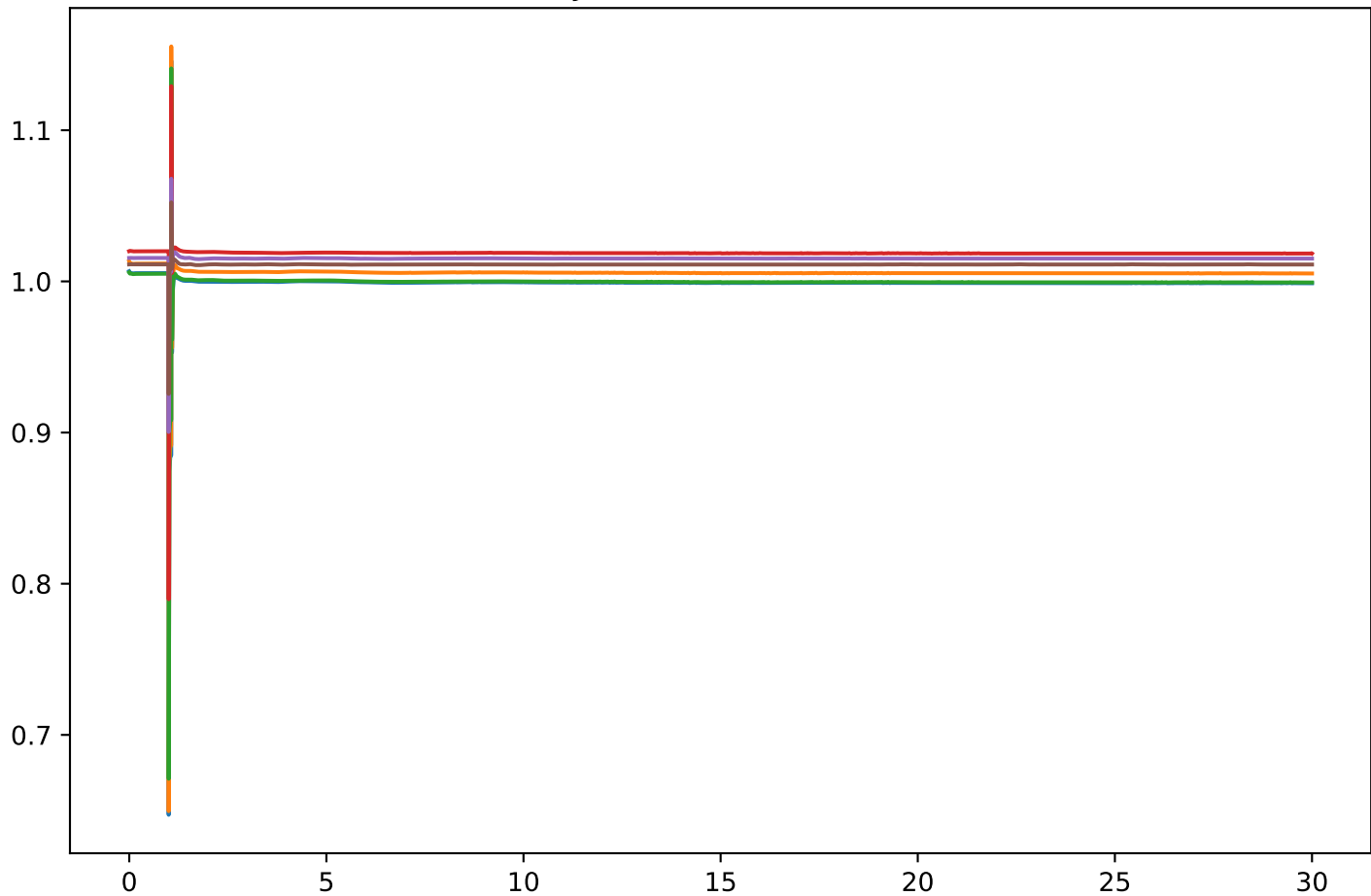


Caso: 1023-3-2035CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6820-6823-1-C9\_STC-PAN3

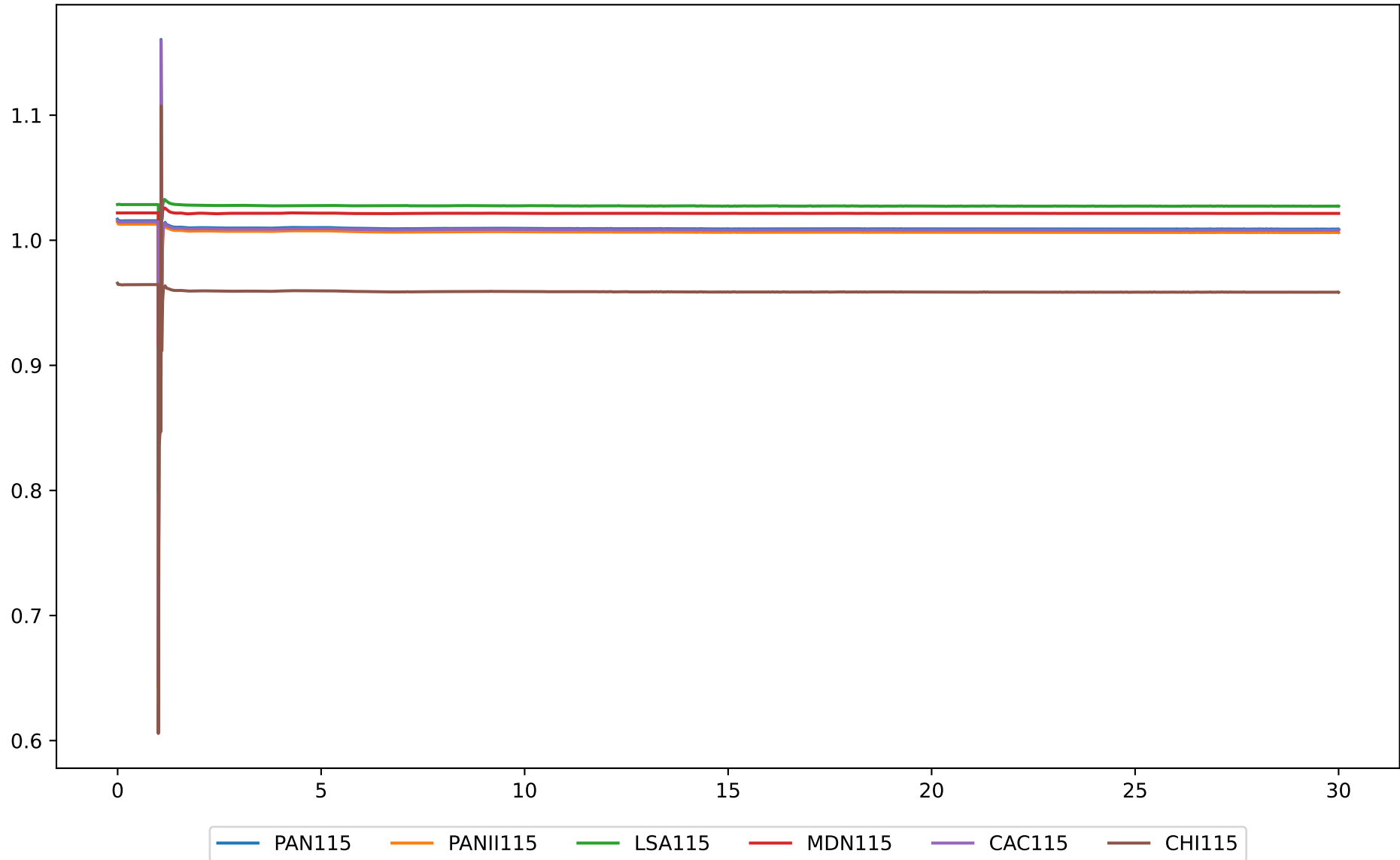
### Frecuencia (Hz)



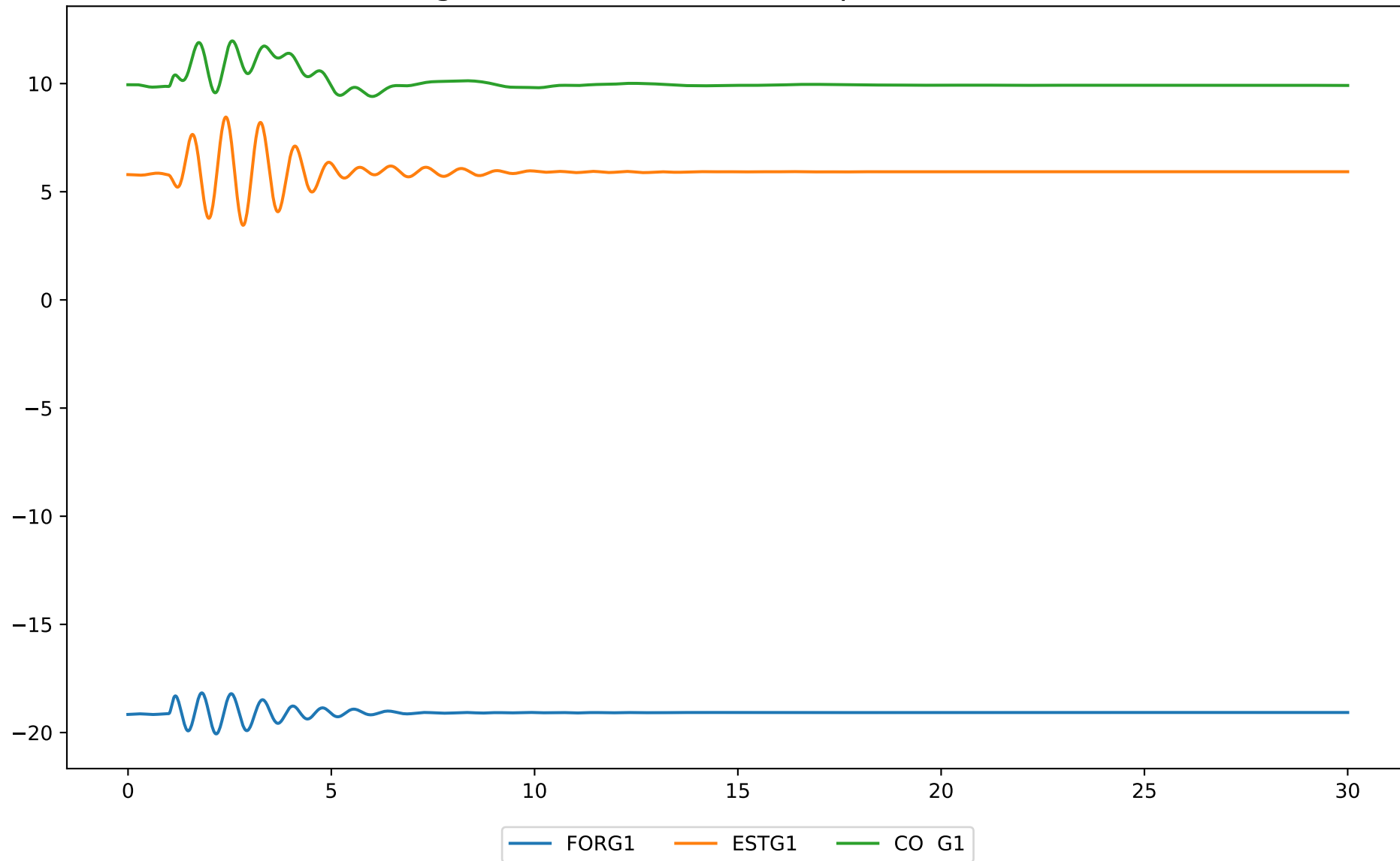
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama



### Angulos de Rotacion de Maquinas - Panama

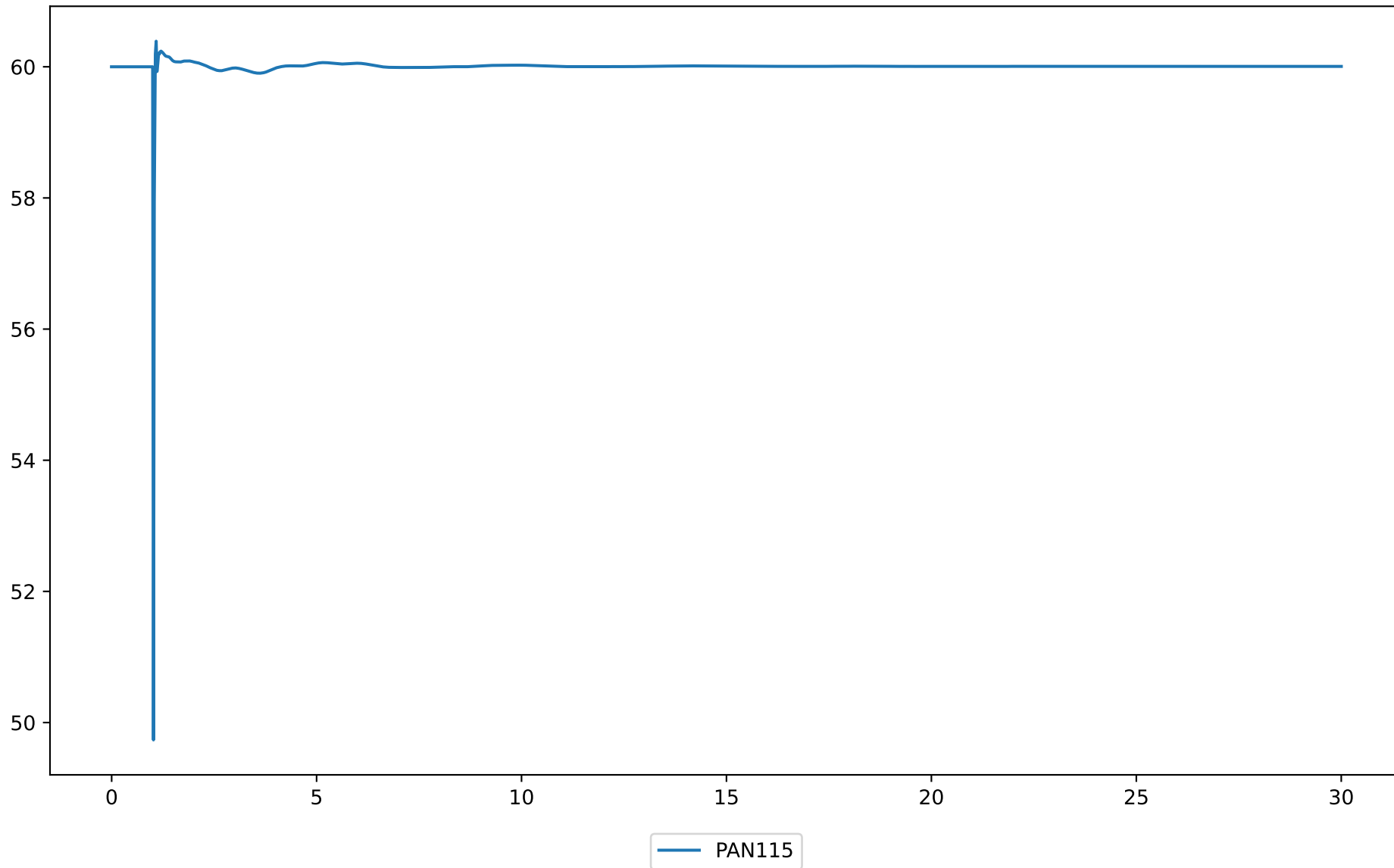




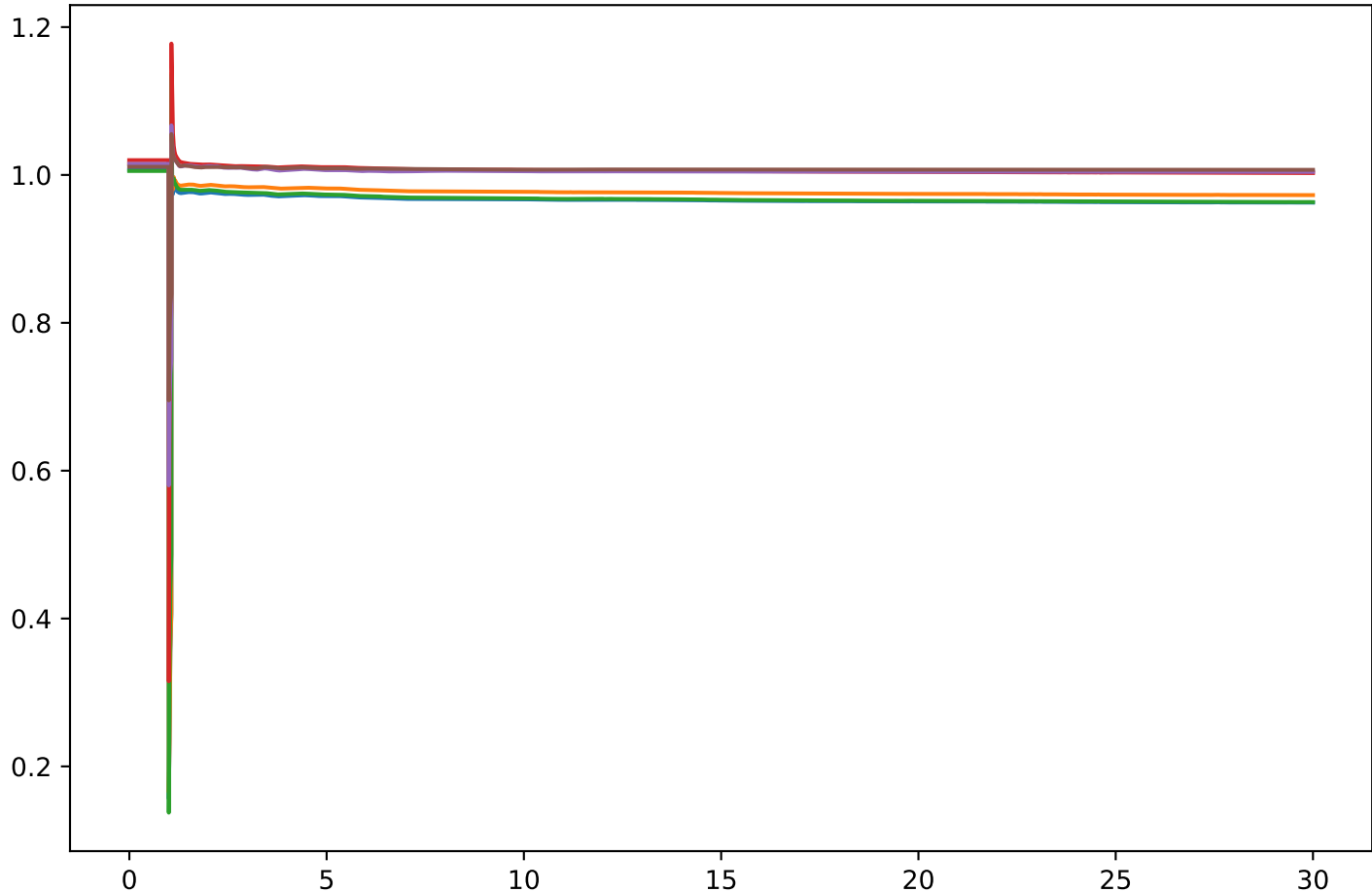
**2037 LLUVIOSA**

Caso: 1023-3-2037CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6851-6852-1-C1\_4LT500

### Frecuencia (Hz)

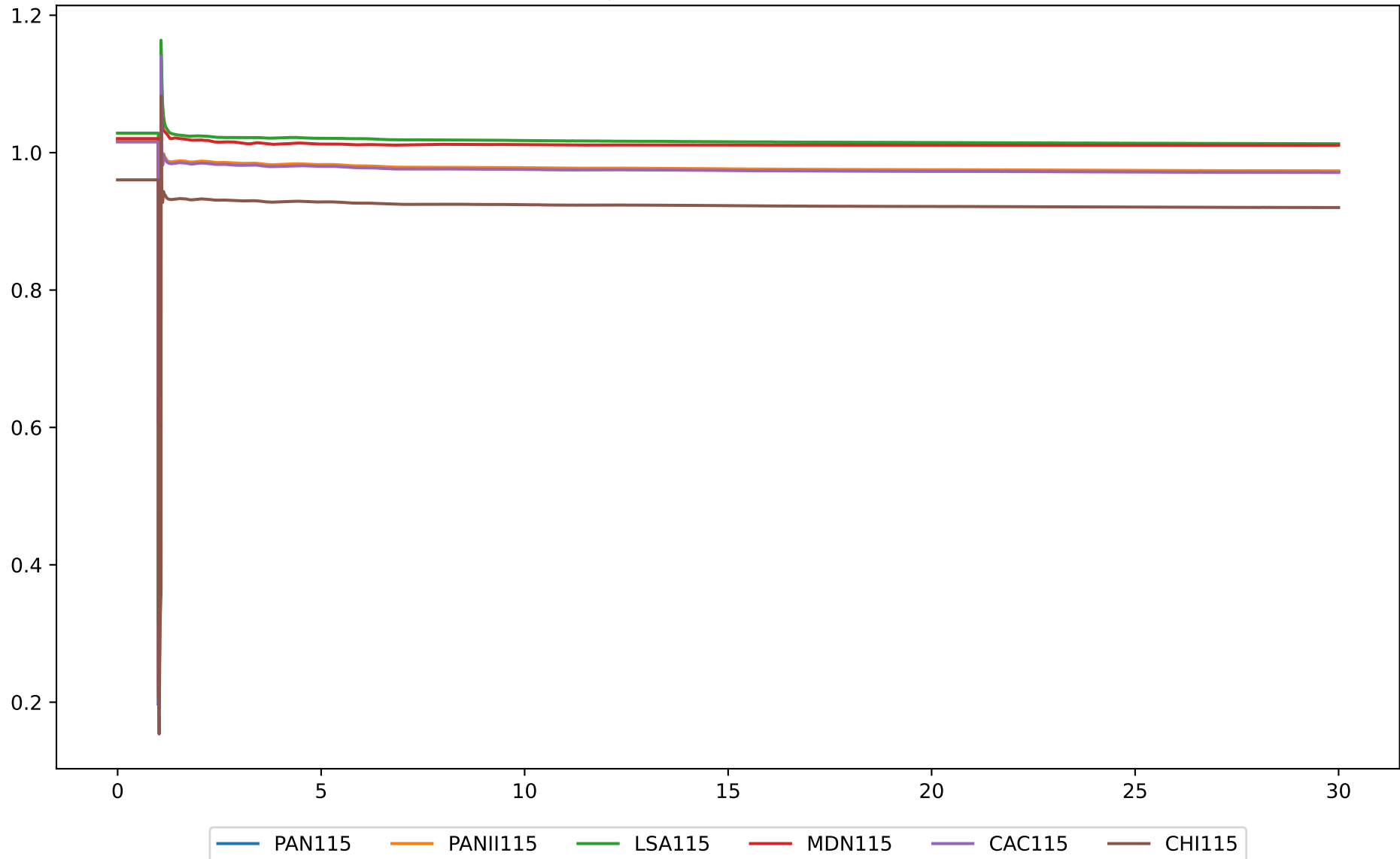


# Voltajes 230kV - Panama

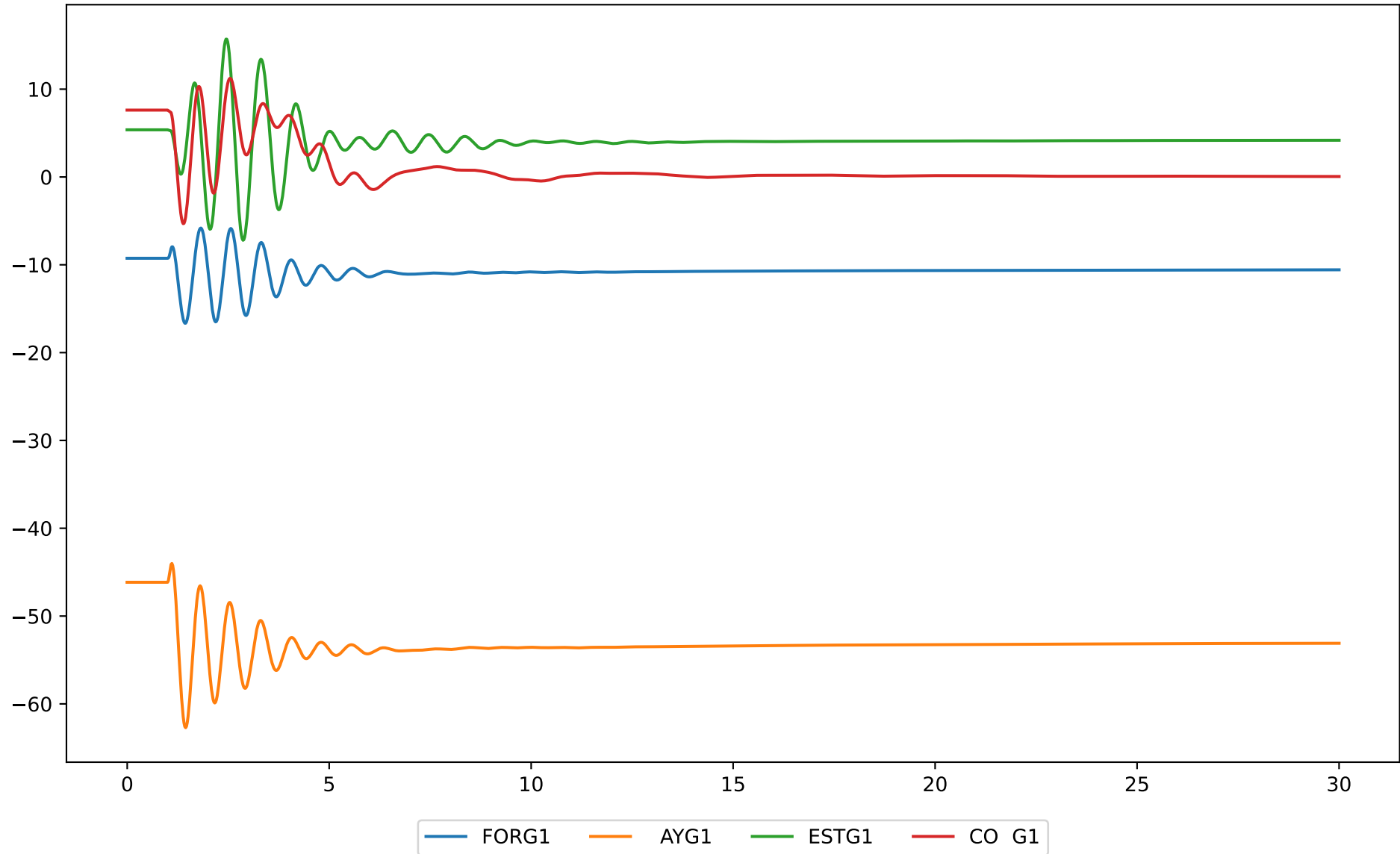


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama

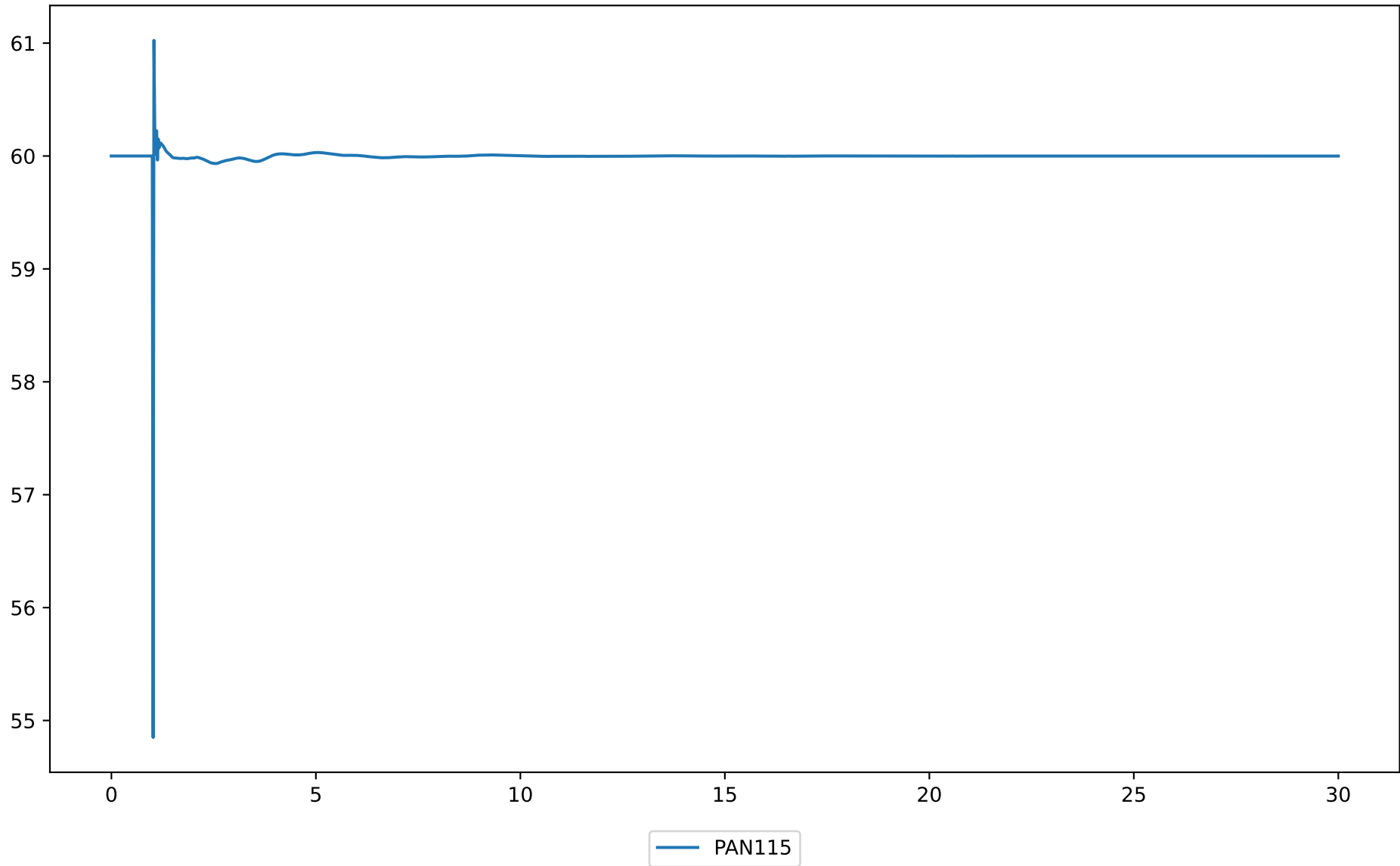


### Angulos de Rotacion de Maquinas - Panama

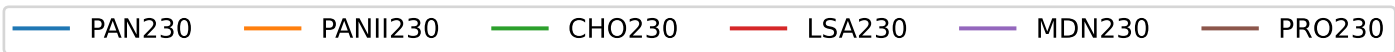
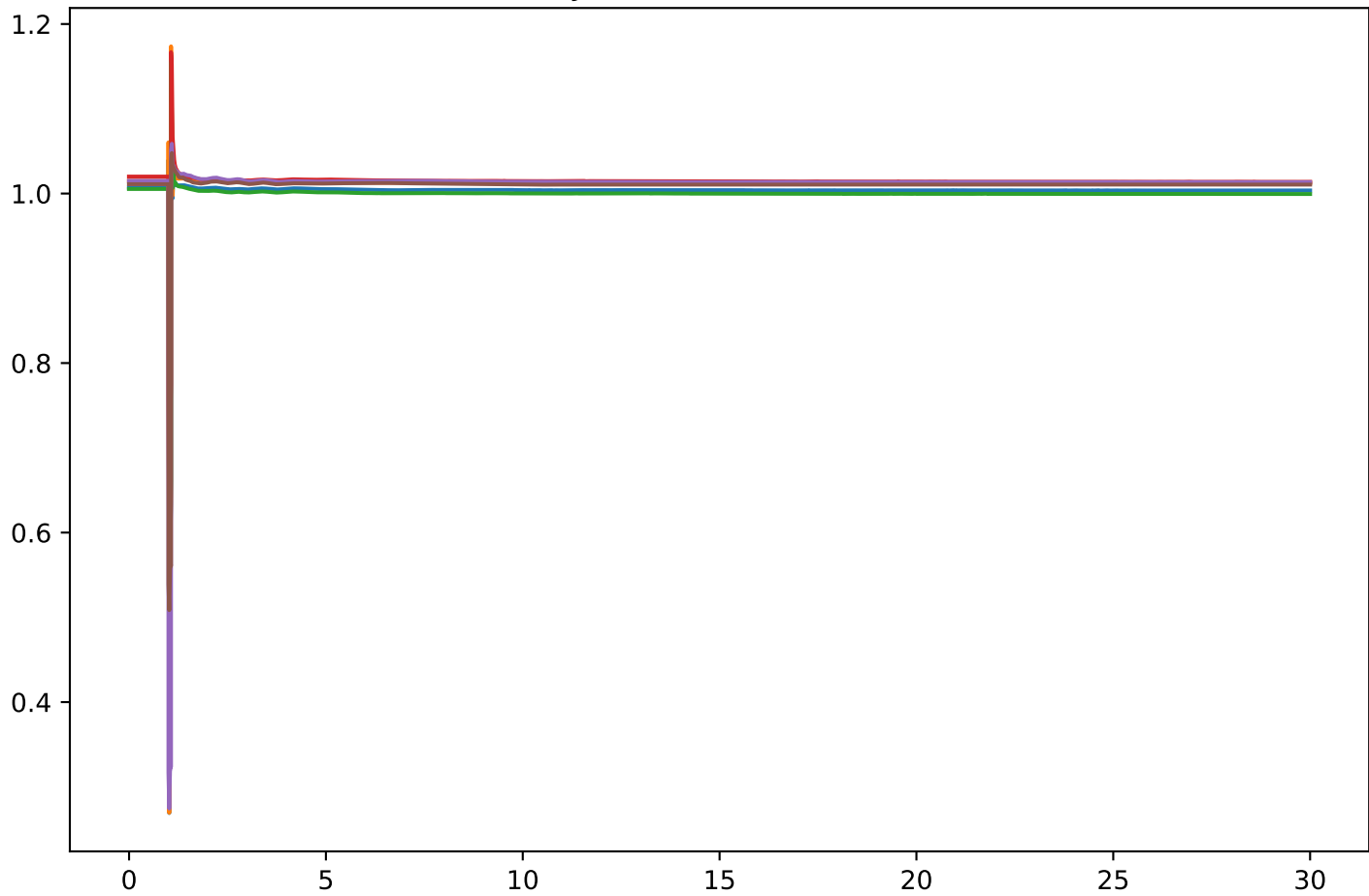


Caso: 1023-3-2037CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6096-6837-0A-C2\_FOR-CHG

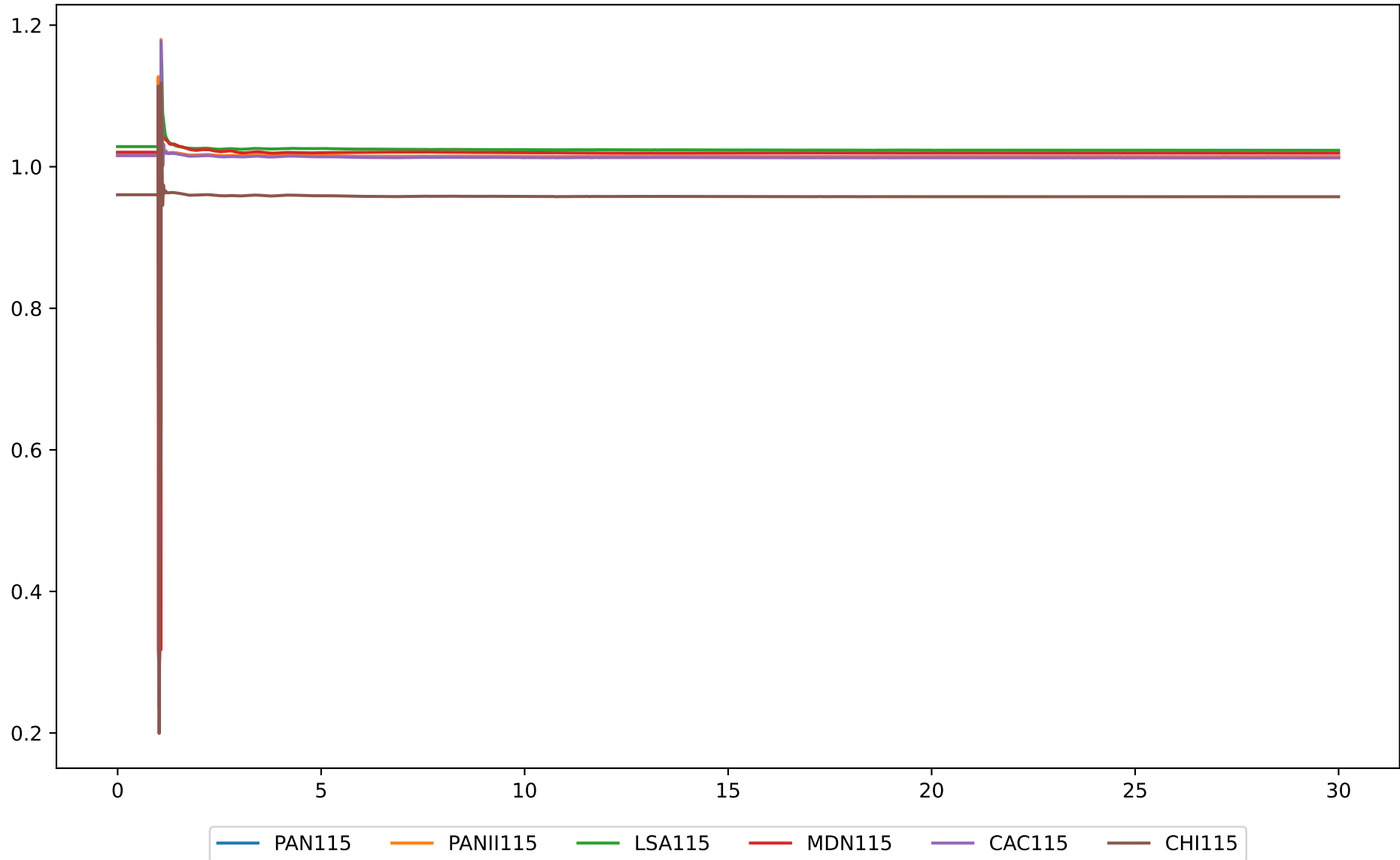
### Frecuencia (Hz)



# Voltajes 230kV - Panama

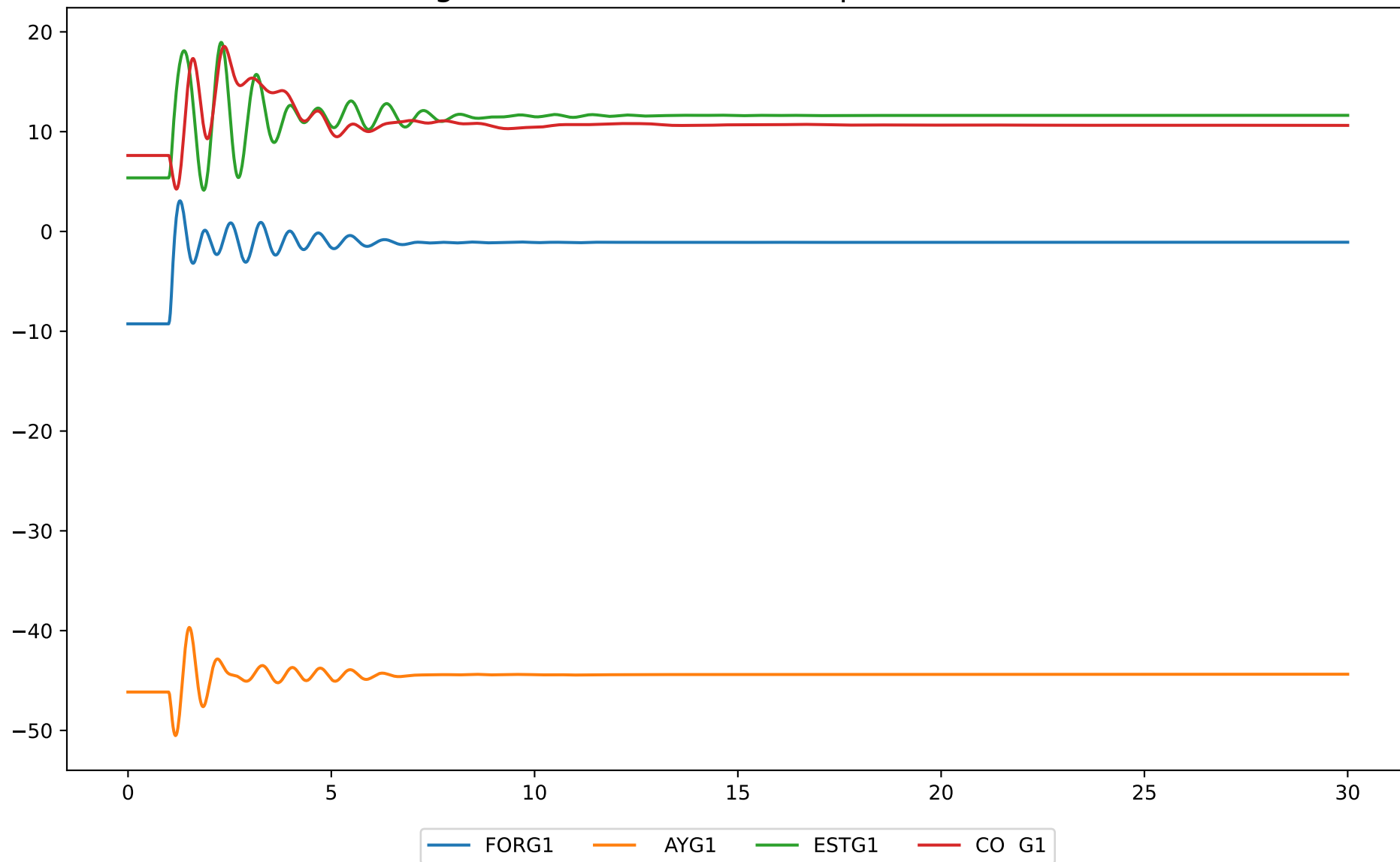


### Voltajes 115kV - Panama



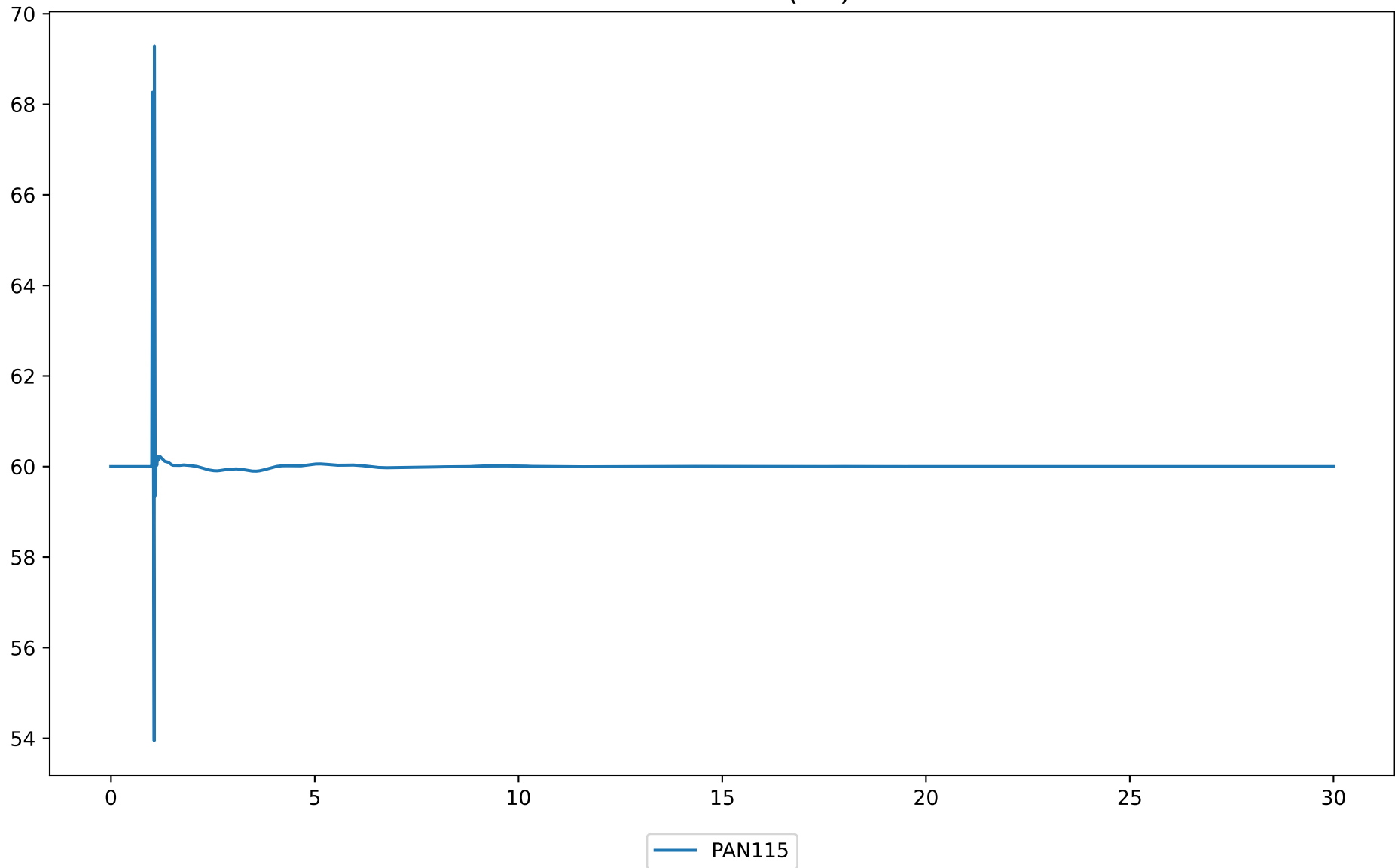


### Angulos de Rotacion de Maquinas - Panama

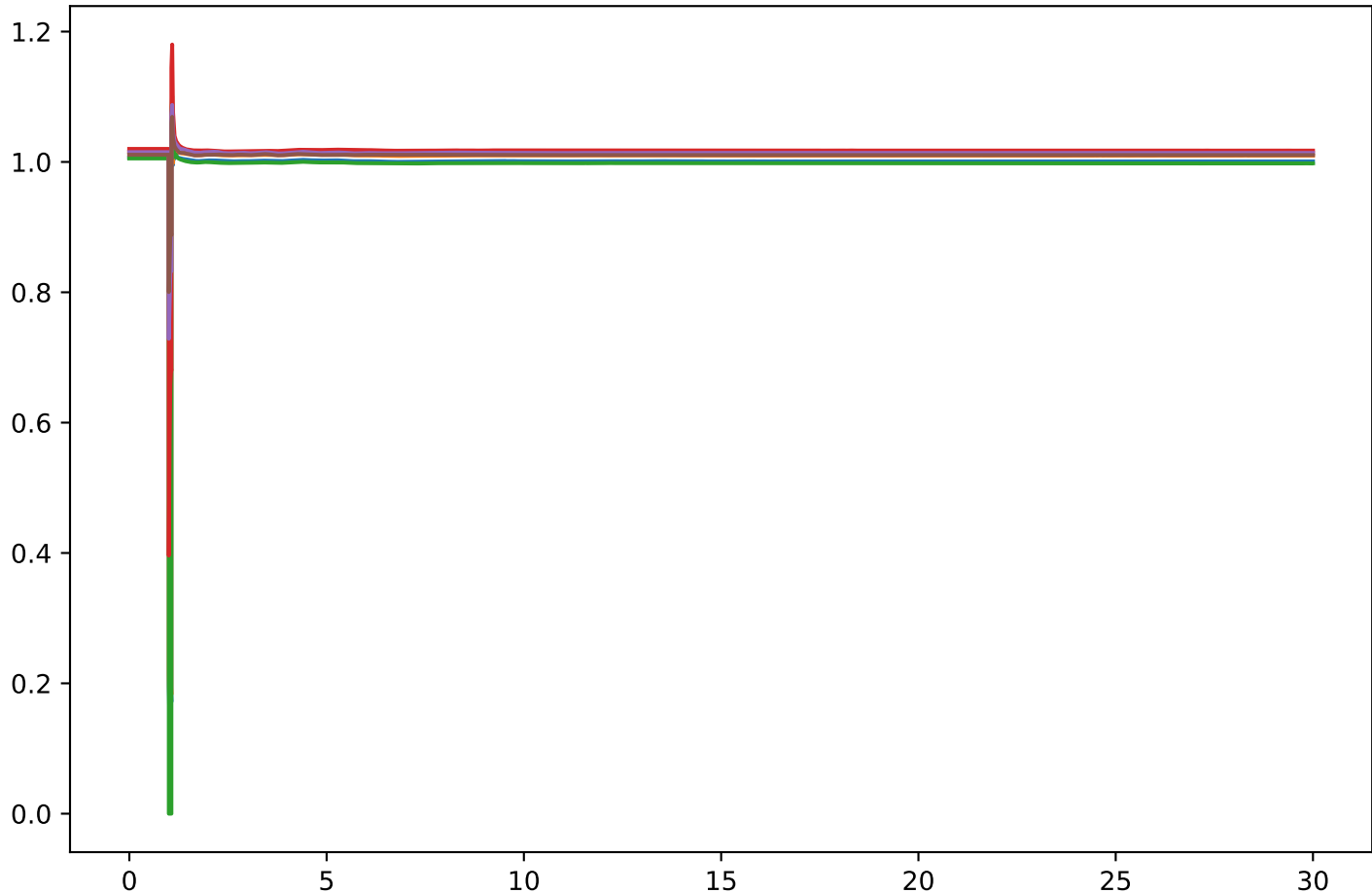


Caso: 1023-3-2037CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6005-6830-9A-C3\_CHO-ANT

### Frecuencia (Hz)

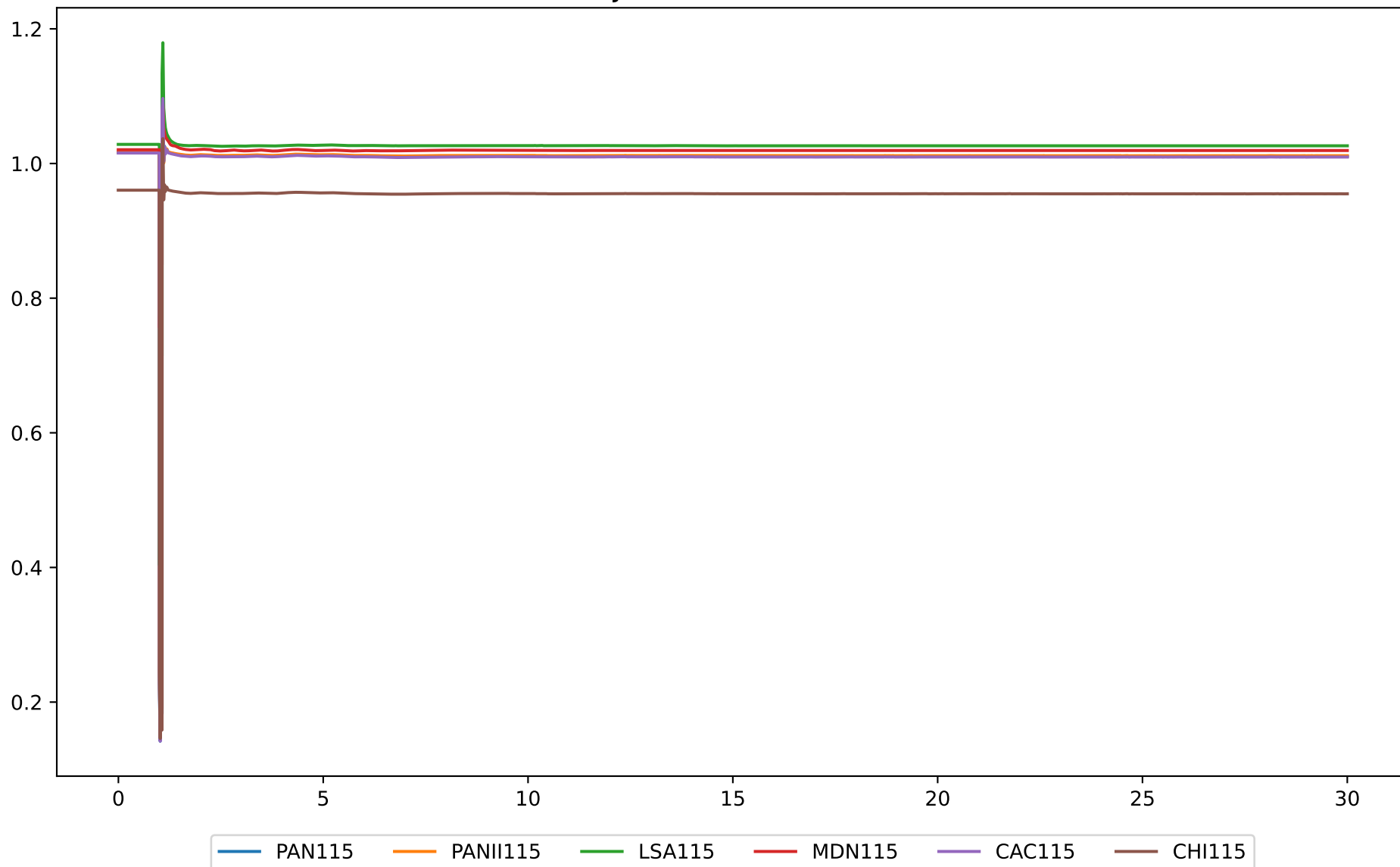


# Voltajes 230kV - Panama

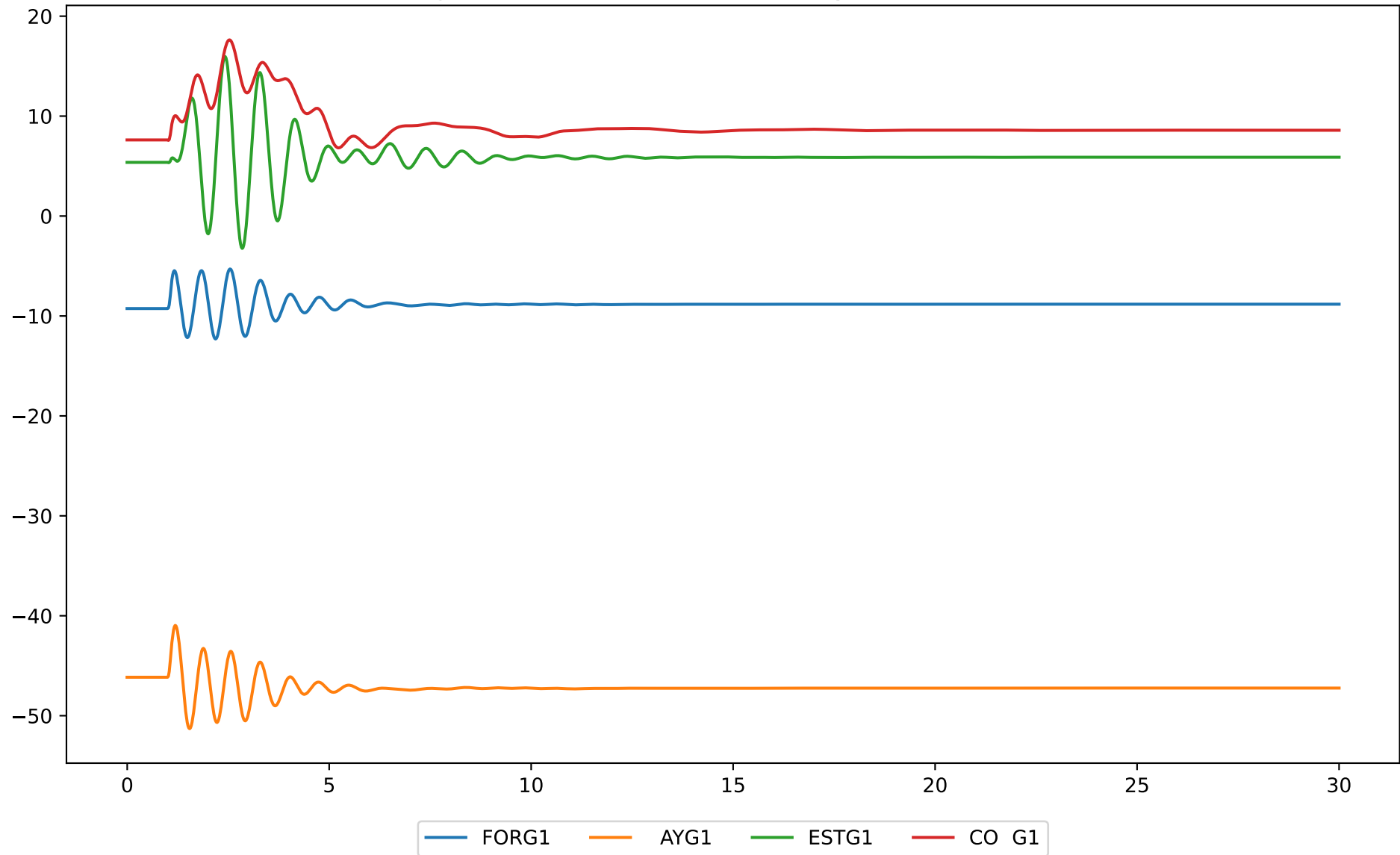


PAN230    PANII230    CHO230    LSA230    MDN230    PRO230

### Voltajes 115kV - Panama

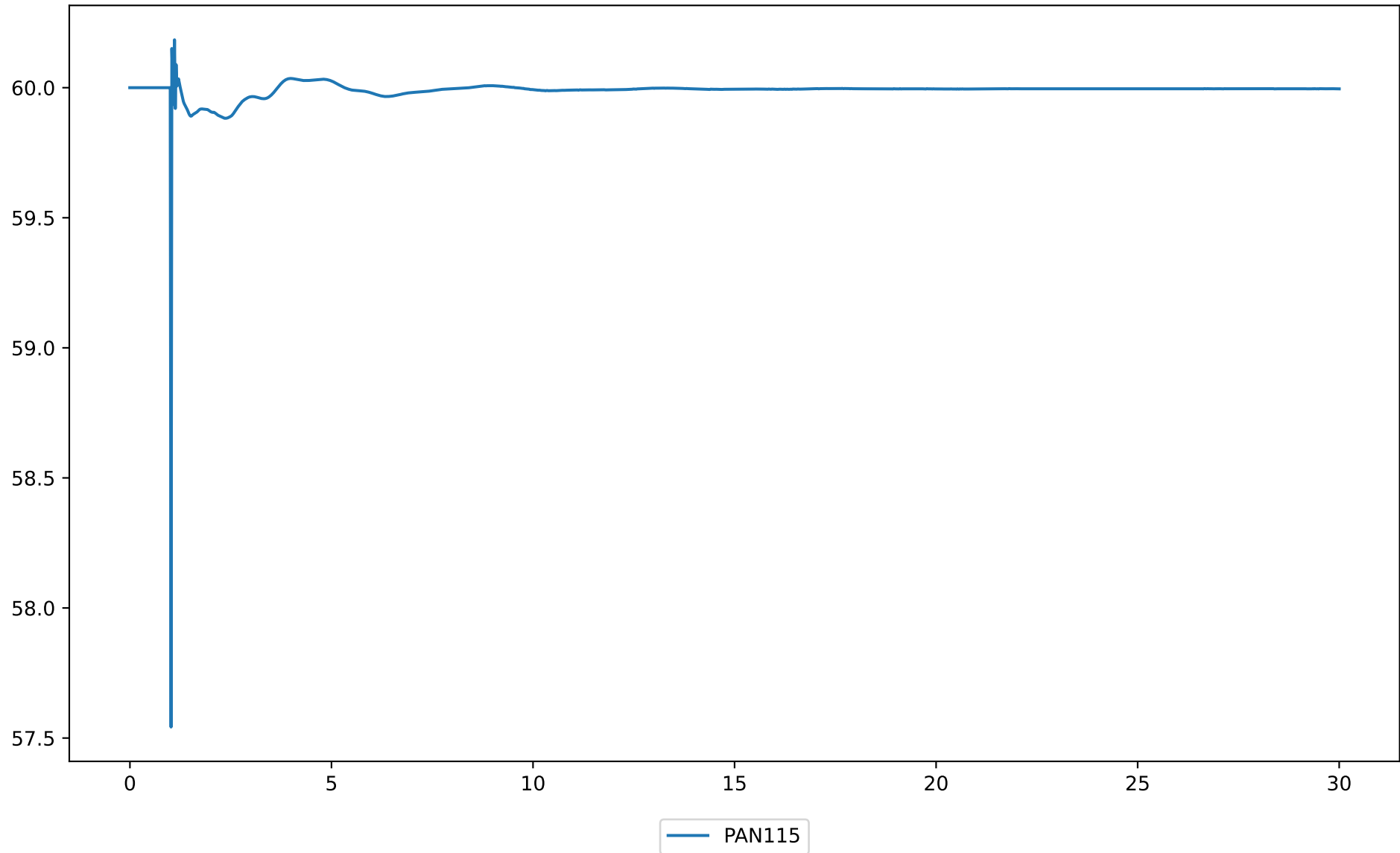


### Angulos de Rotacion de Maquinas - Panama

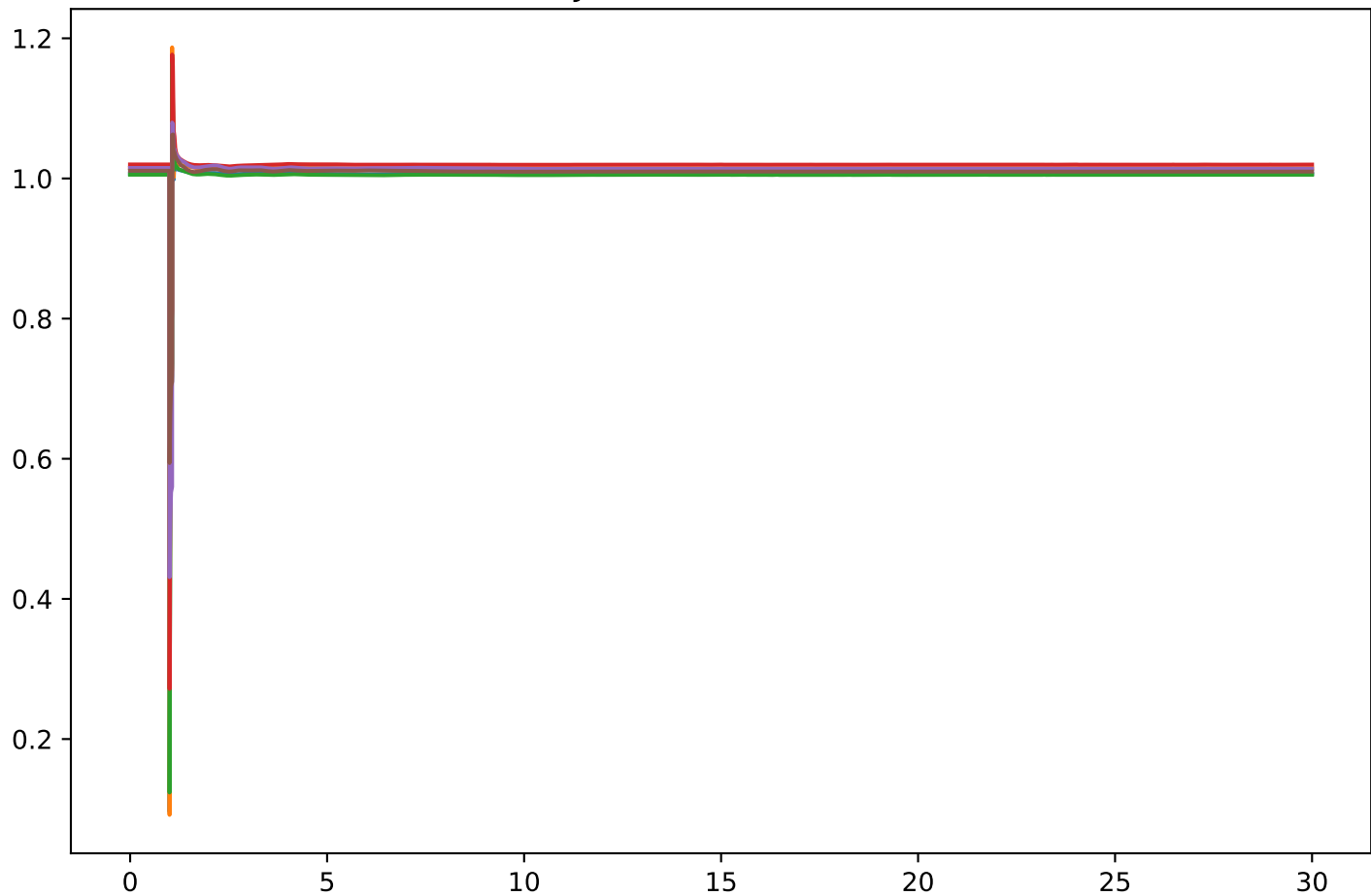


Caso: 1023-3-2037CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6178-6179-19-C4\_ESTI

### Frecuencia (Hz)

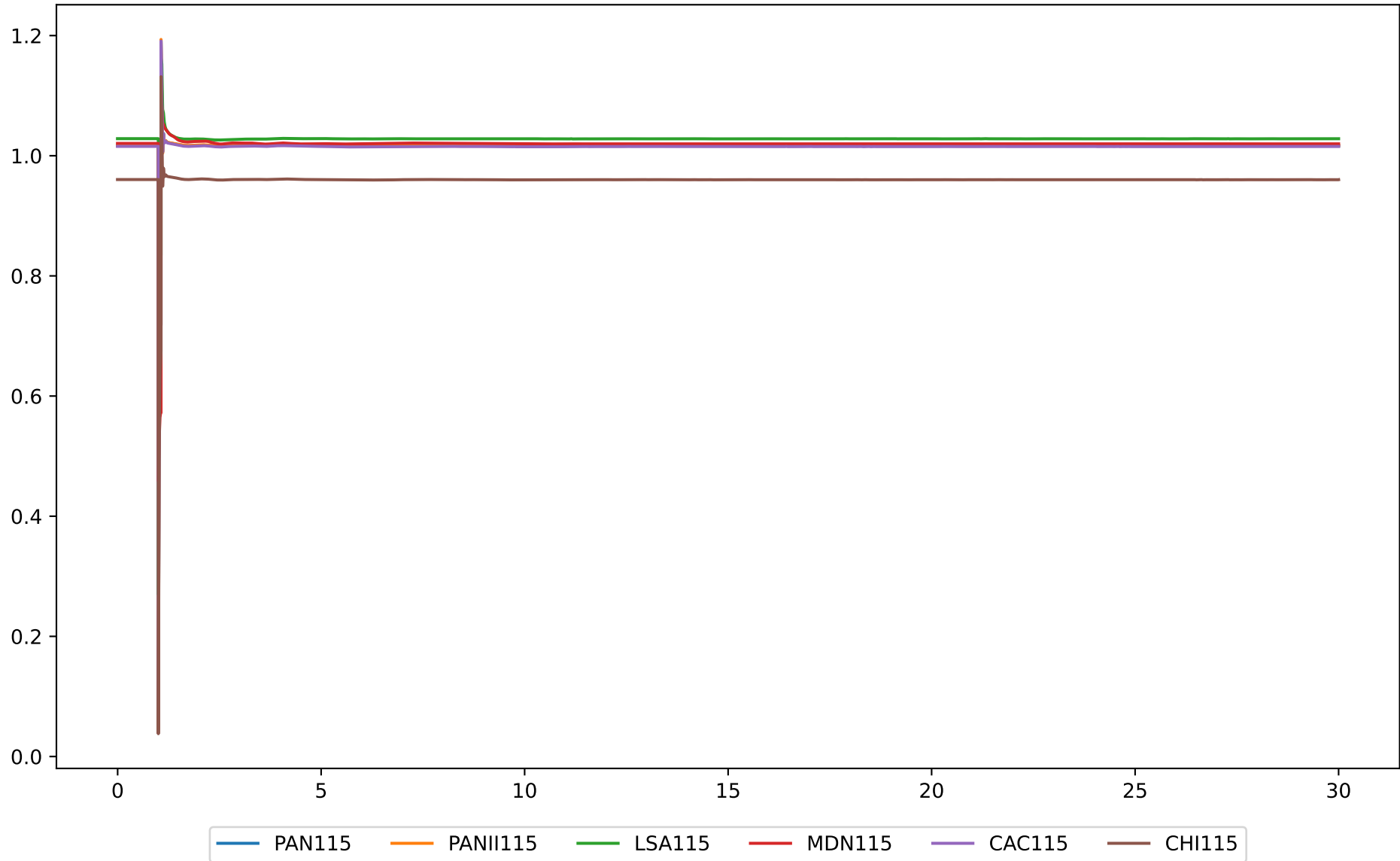


# Voltajes 230kV - Panama



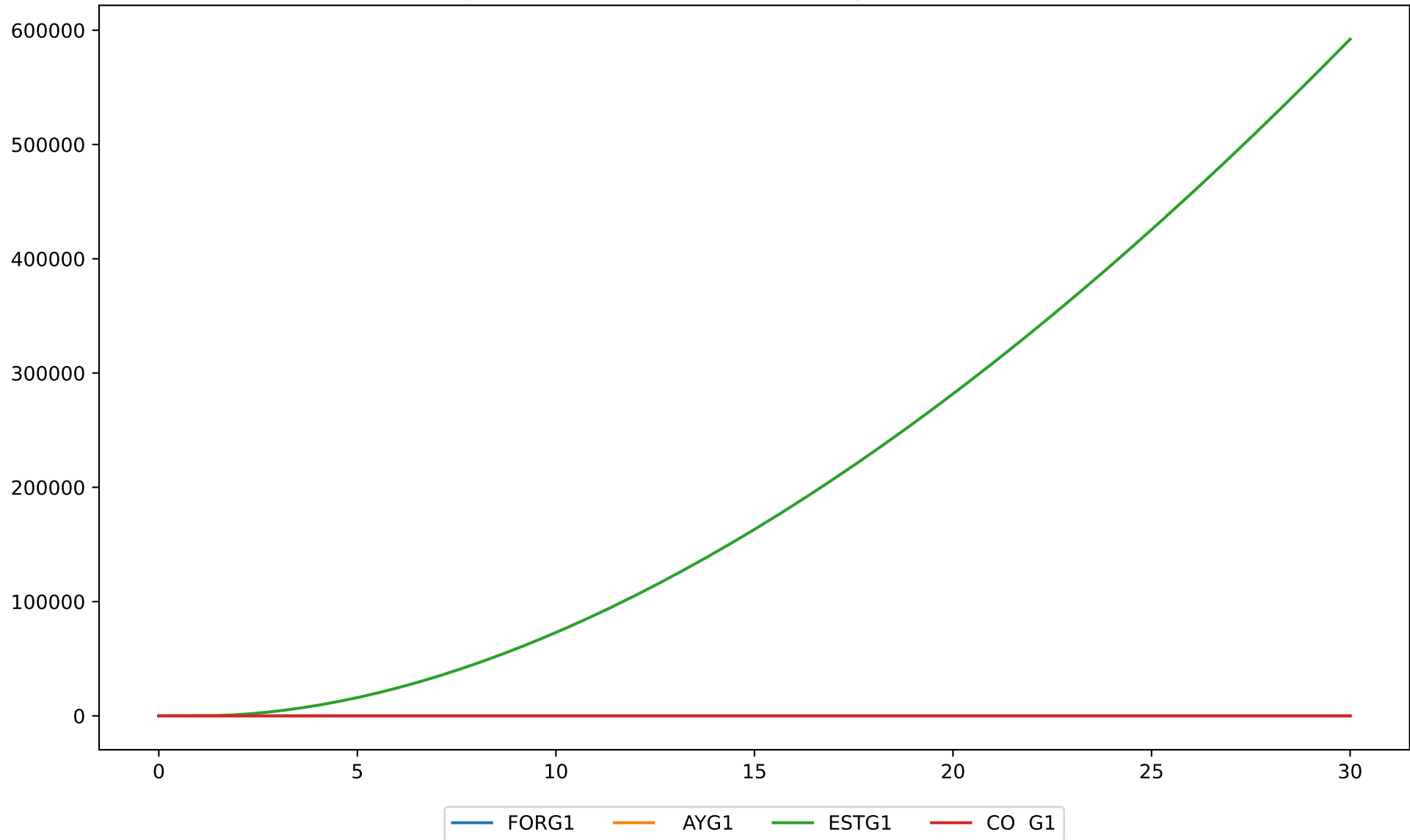
PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama



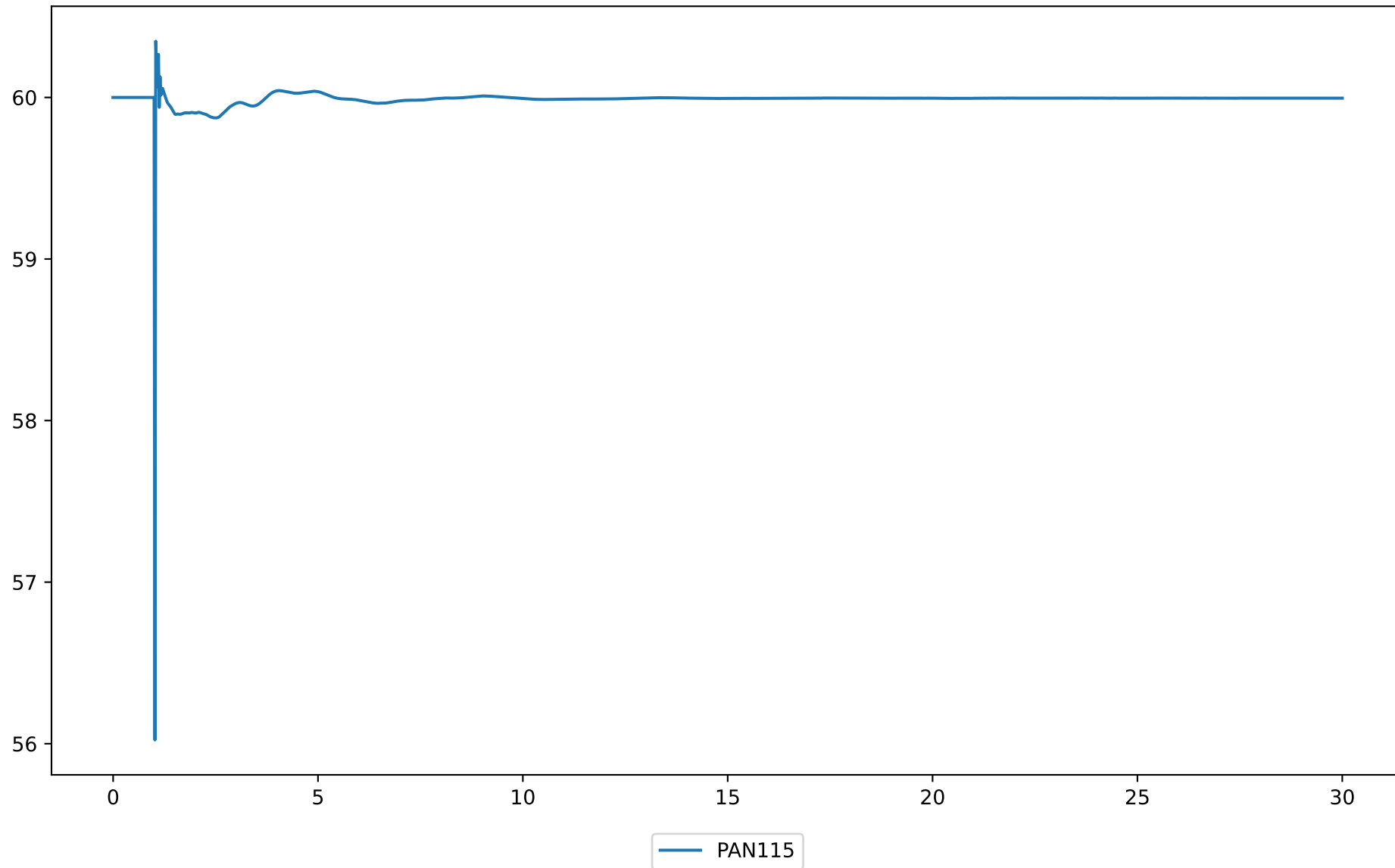


### Angulos de Rotacion de Maquinas - Panama

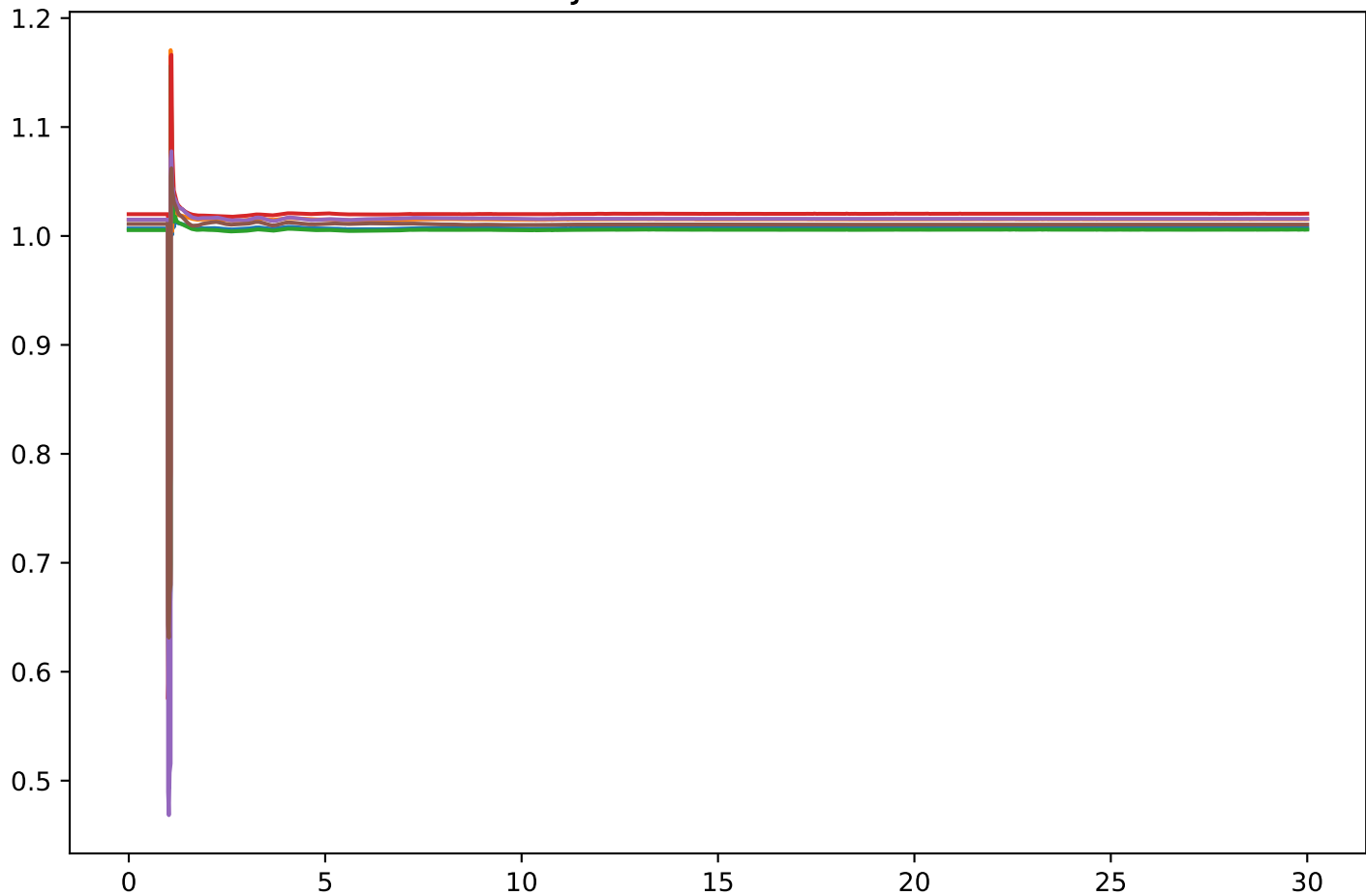


Caso: 1023-3-2037CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6179-6360-22-C5\_GUA-GLA

### Frecuencia (Hz)

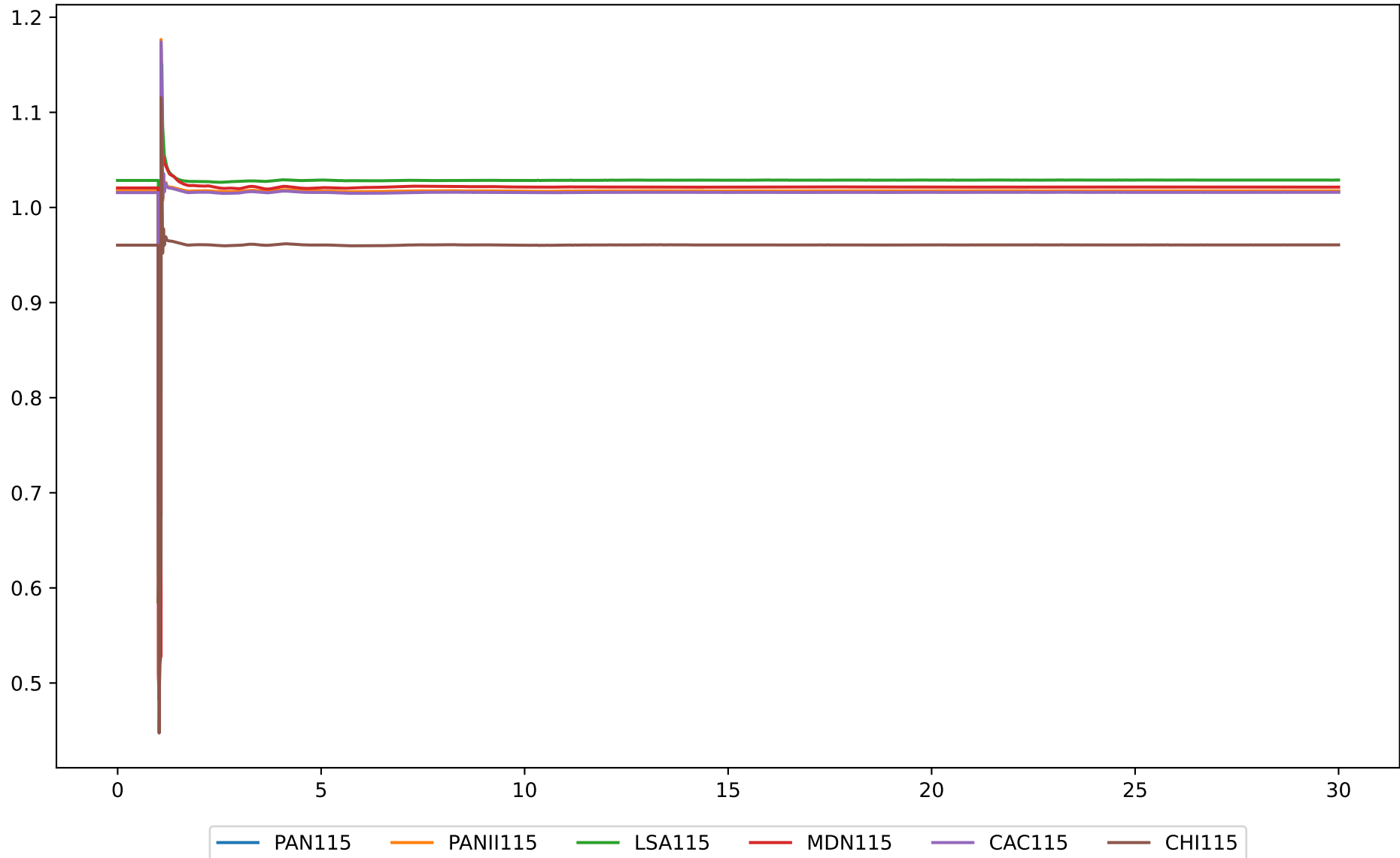


# Voltajes 230kV - Panama

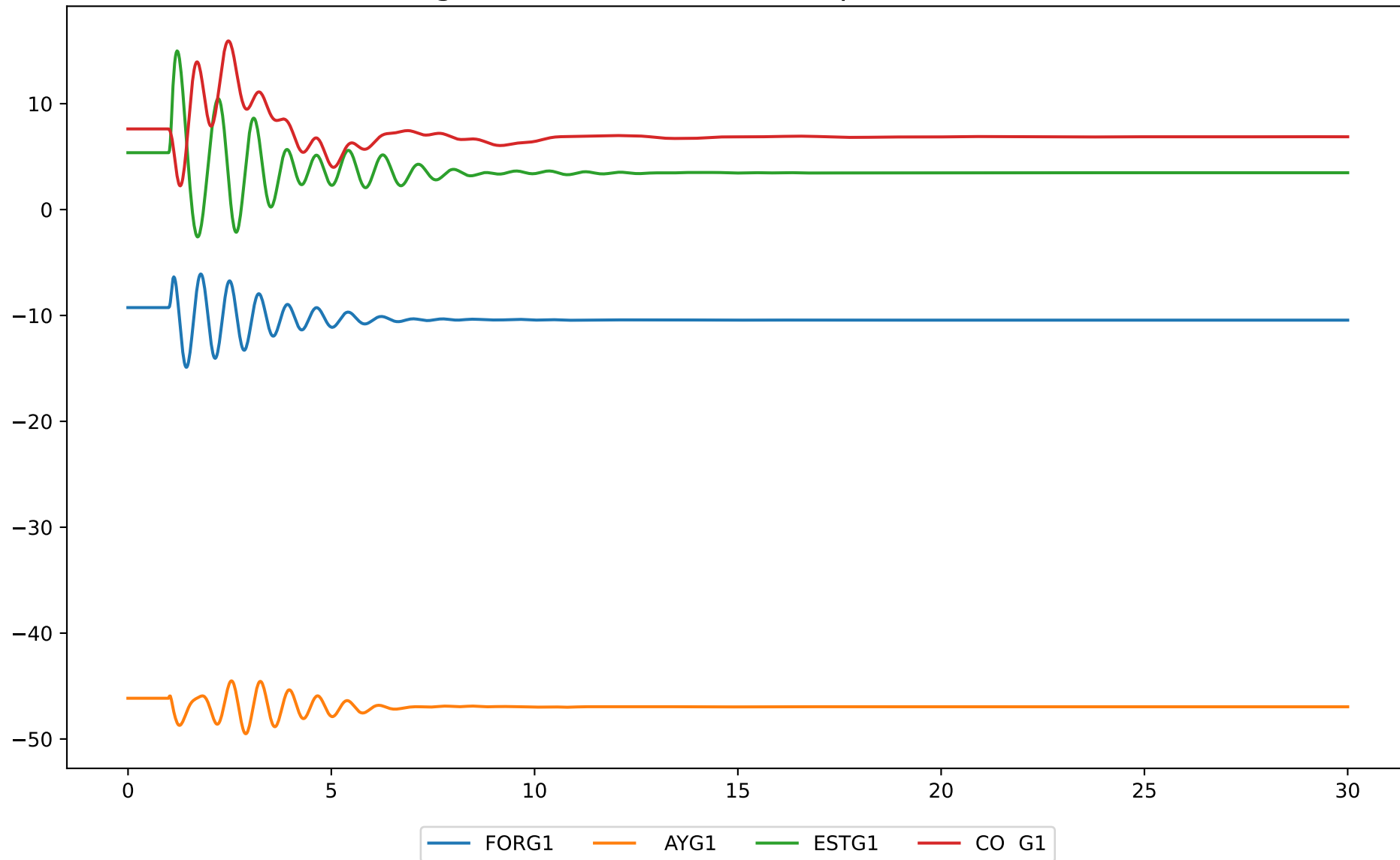


PAN230 PANII230 CHO230 LSA230 MDN230 PRO230

### Voltajes 115kV - Panama

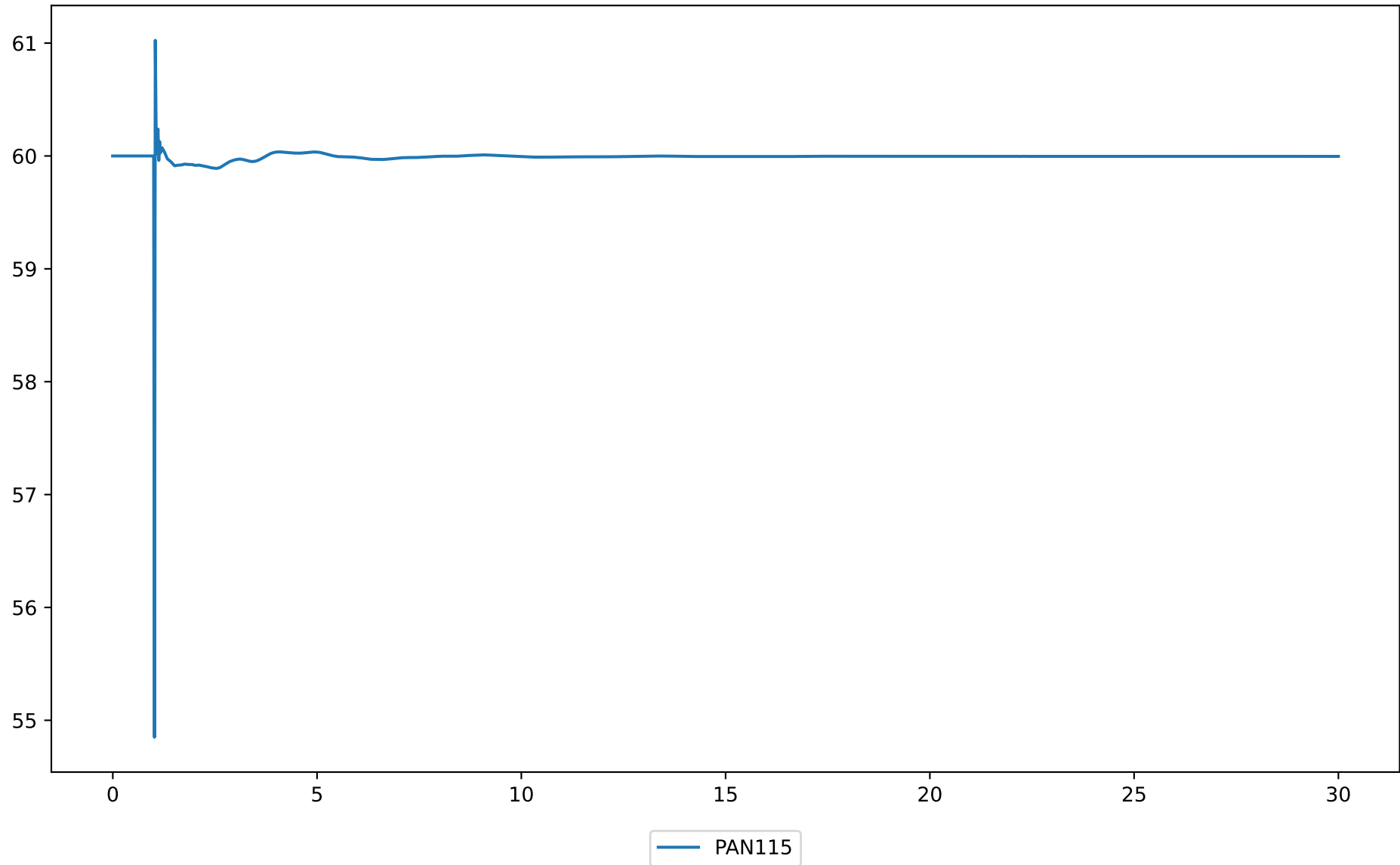


### Angulos de Rotacion de Maquinas - Panama

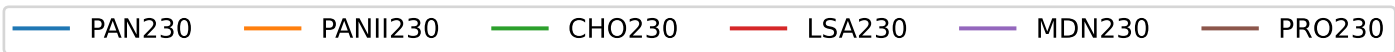
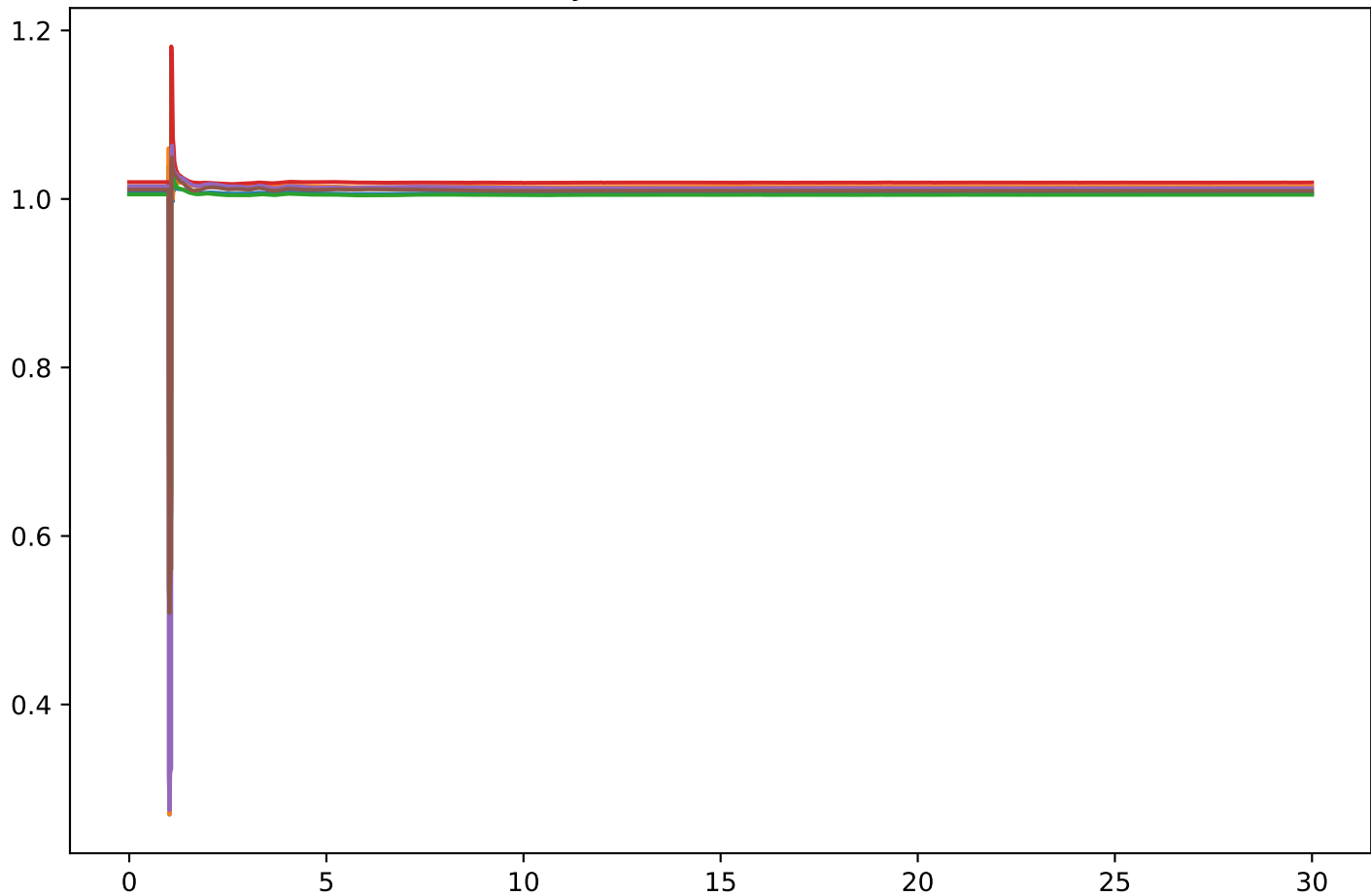


Caso: 1023-3-2037CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6096-6097-T1-C6\_FORG1

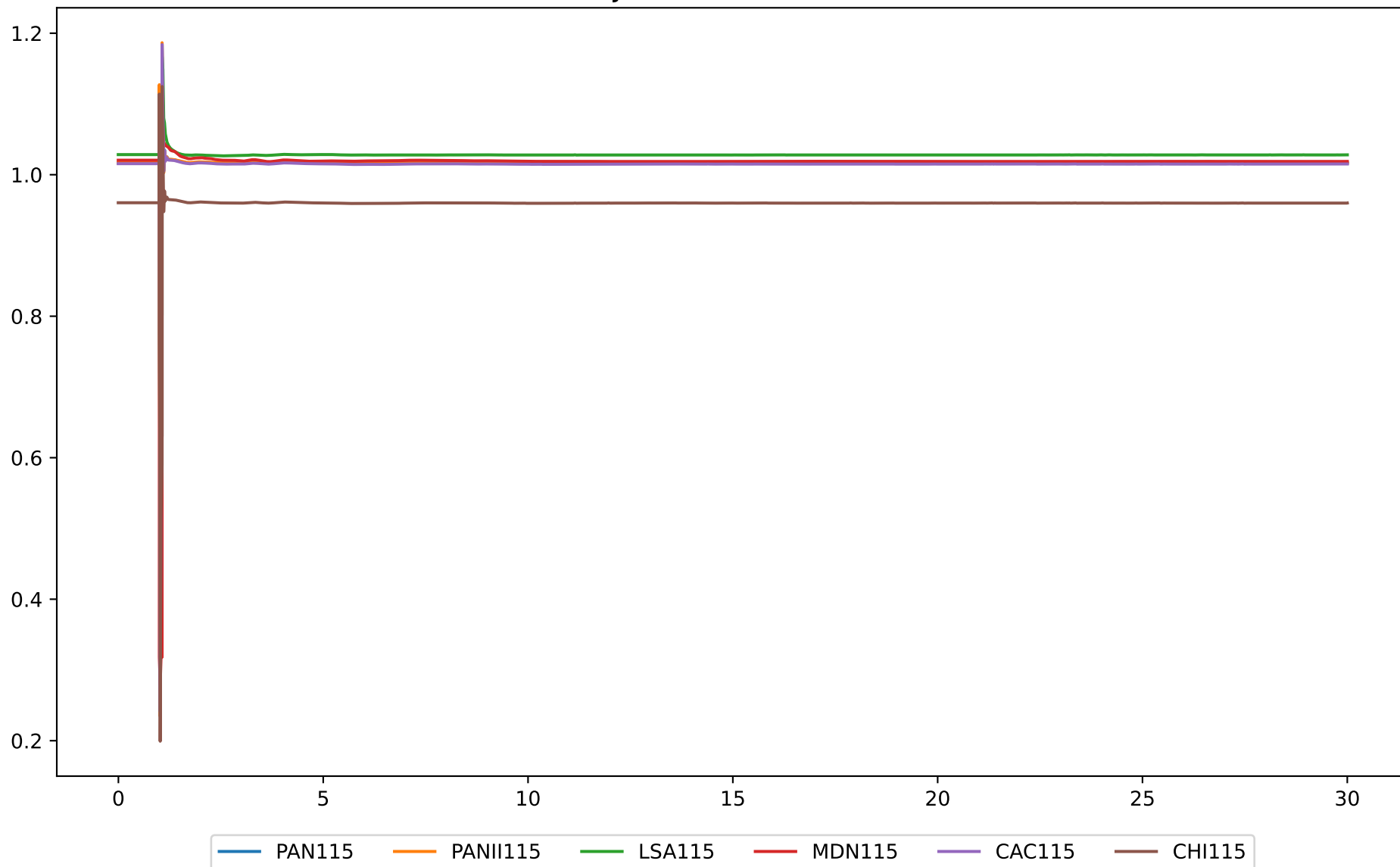
### Frecuencia (Hz)



# Voltajes 230kV - Panama

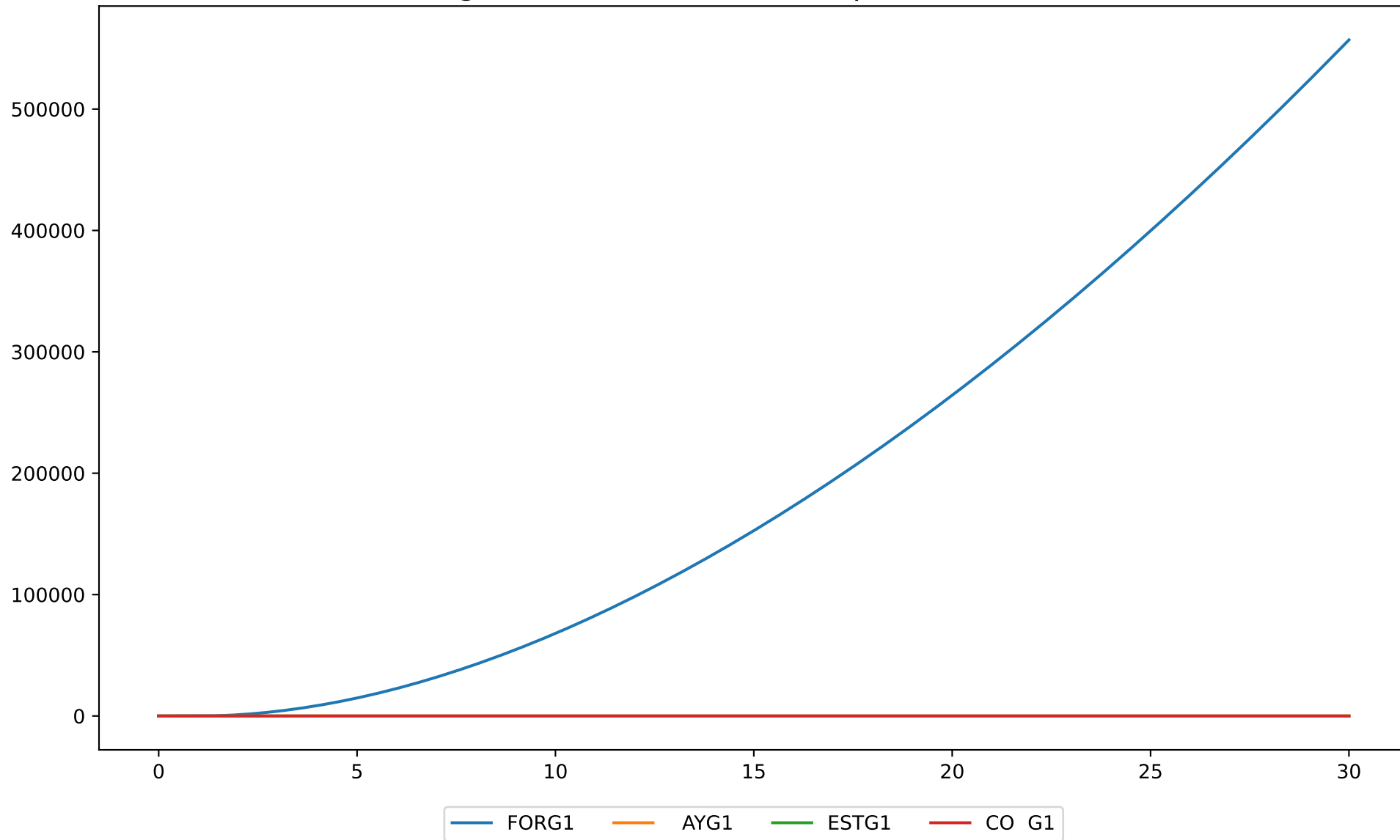


### Voltajes 115kV - Panama



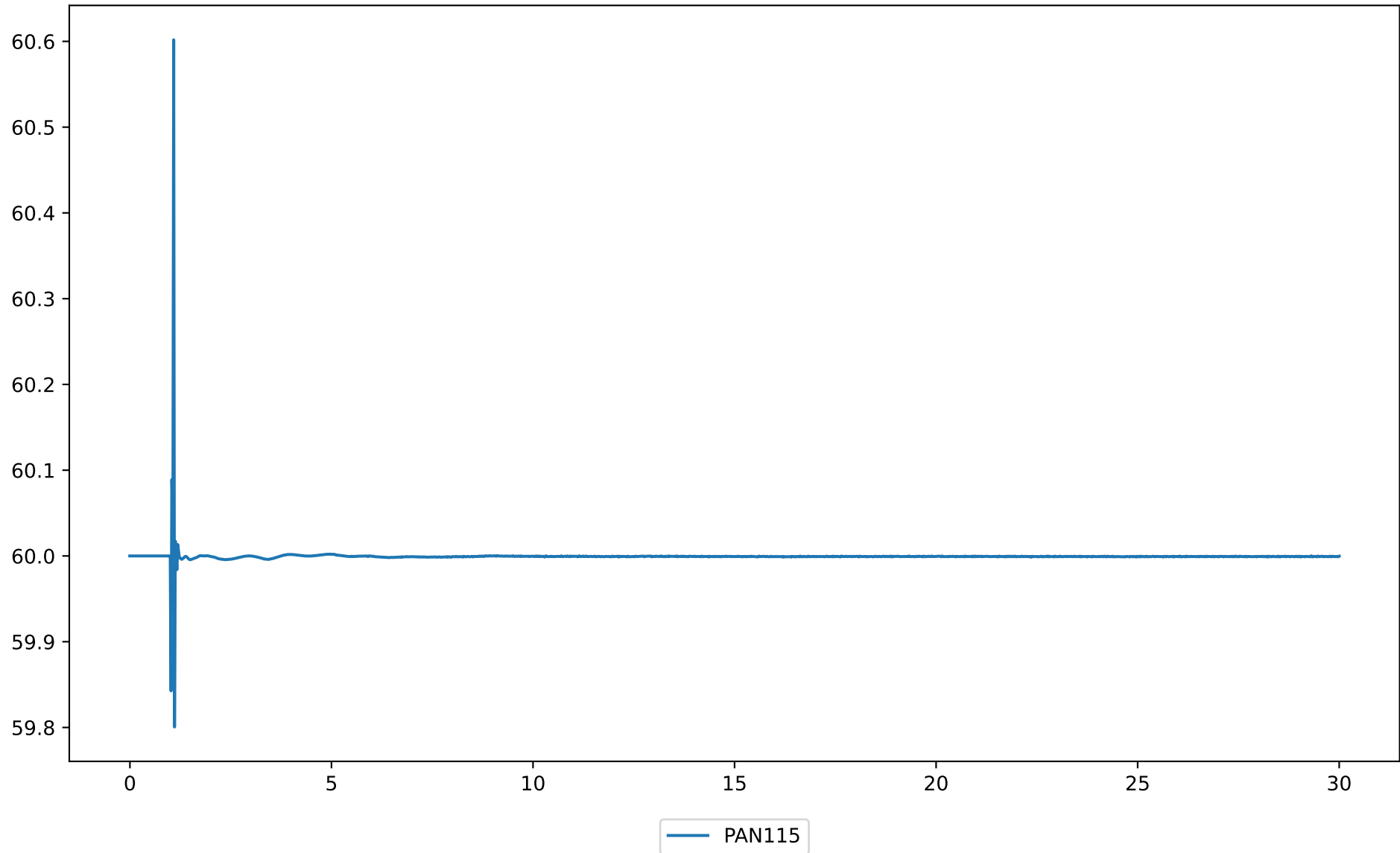


### Angulos de Rotacion de Maquinas - Panama

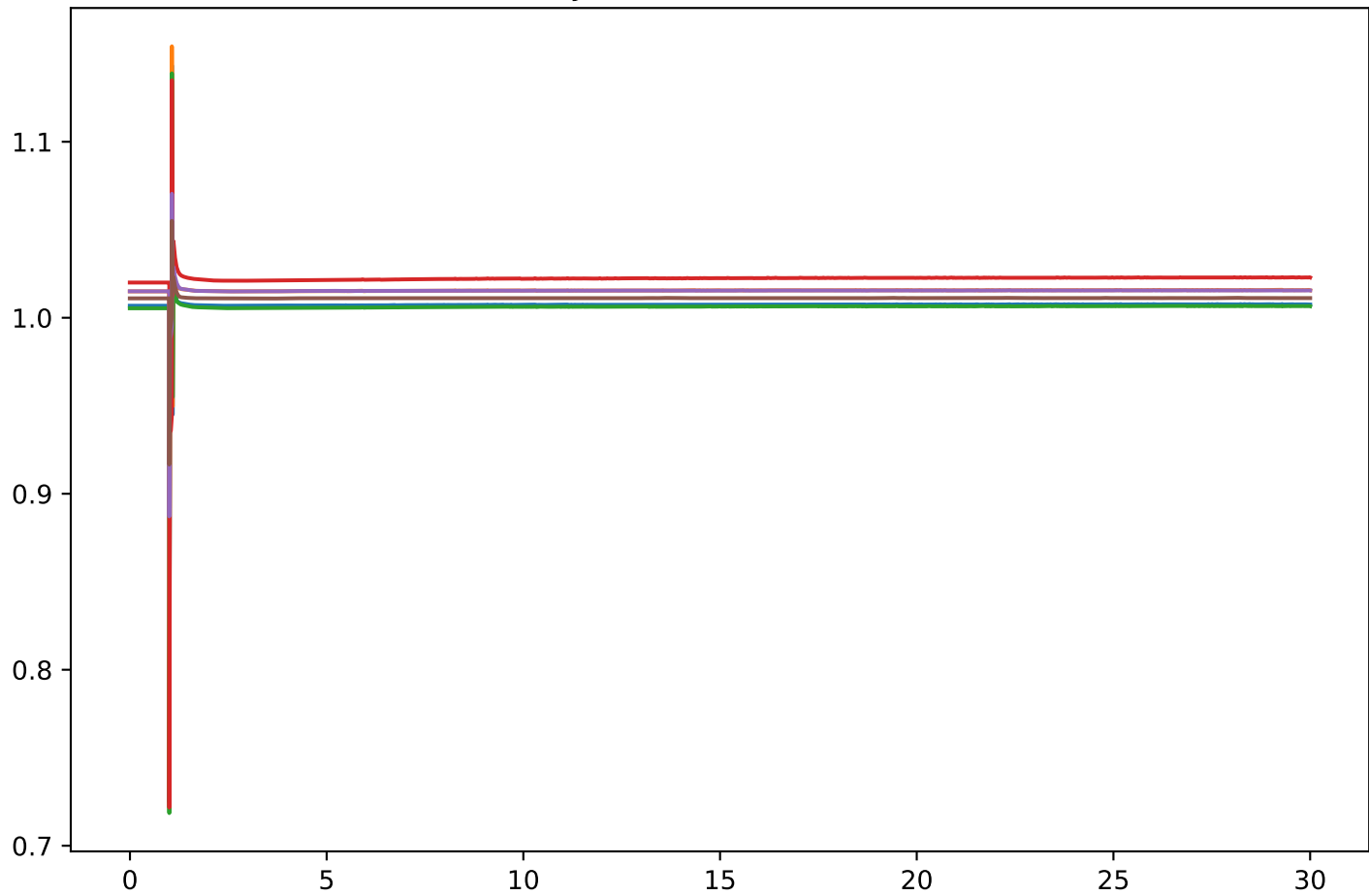


Caso: 1023-3-2037CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6812-6811-T4-C7\_STC-LSA

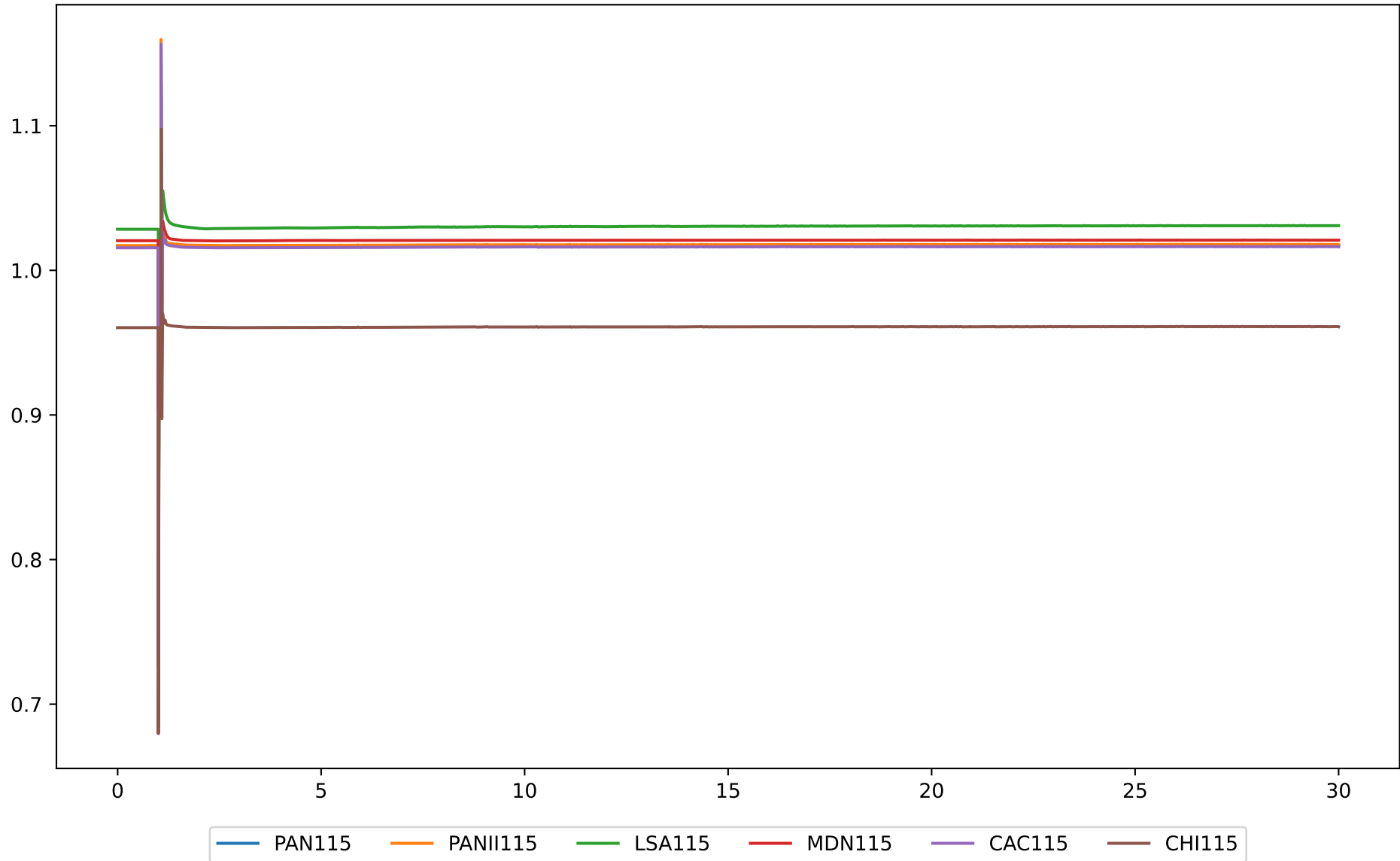
### Frecuencia (Hz)



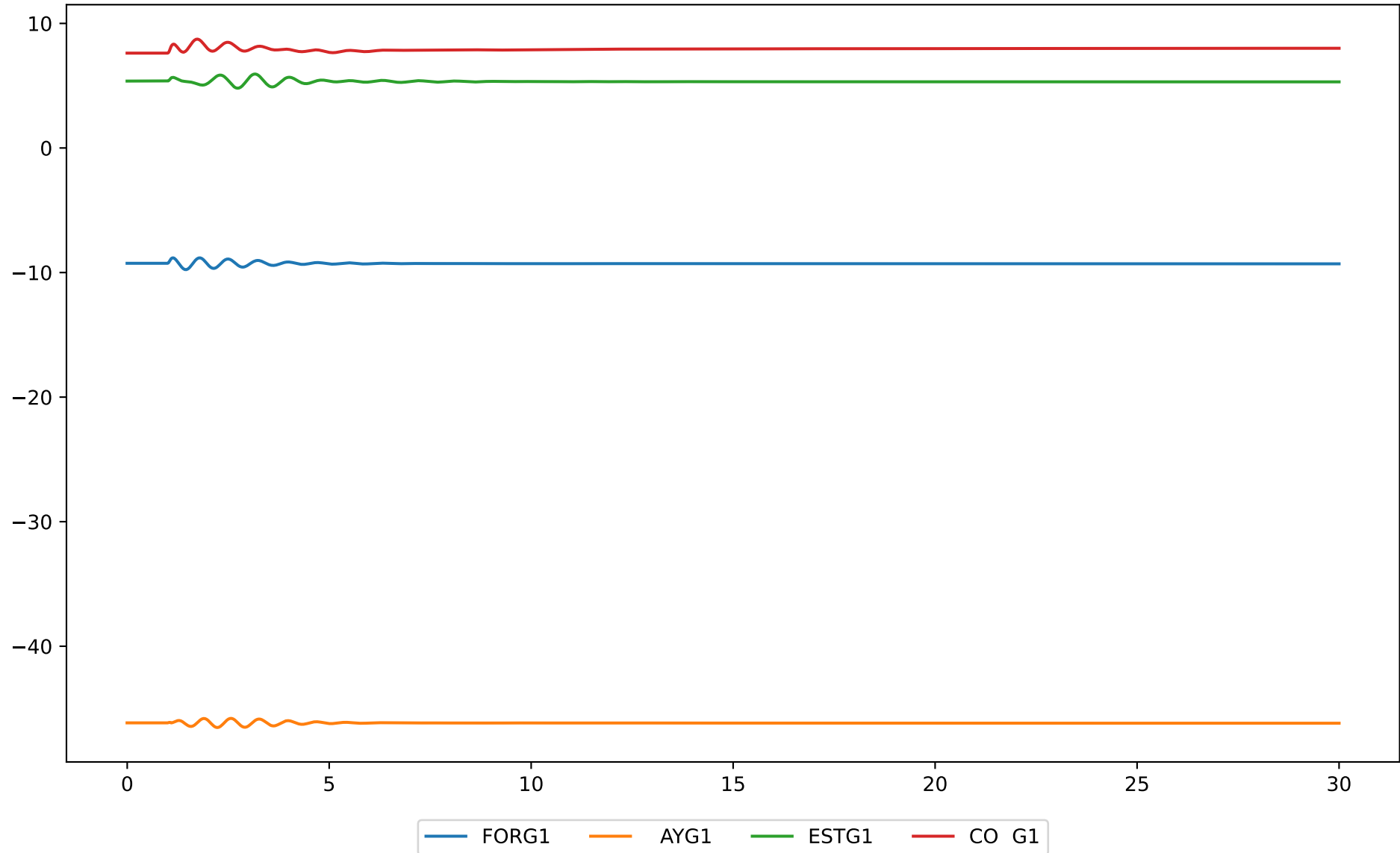
# Voltajes 230kV - Panama



### Voltajes 115kV - Panama

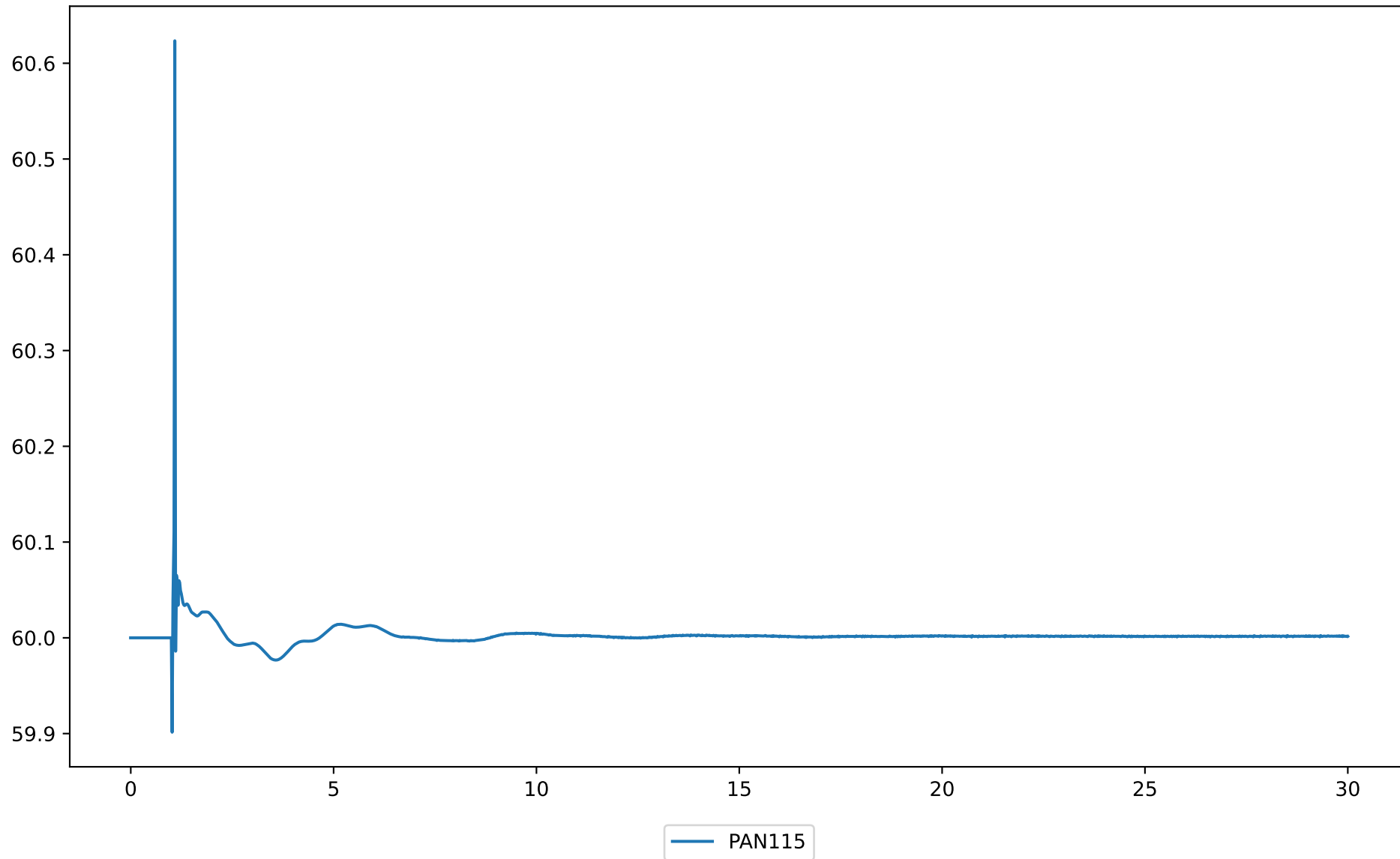


### Angulos de Rotacion de Maquinas - Panama

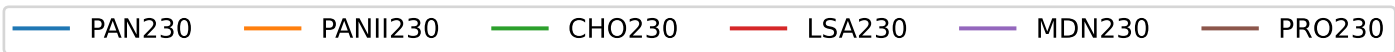
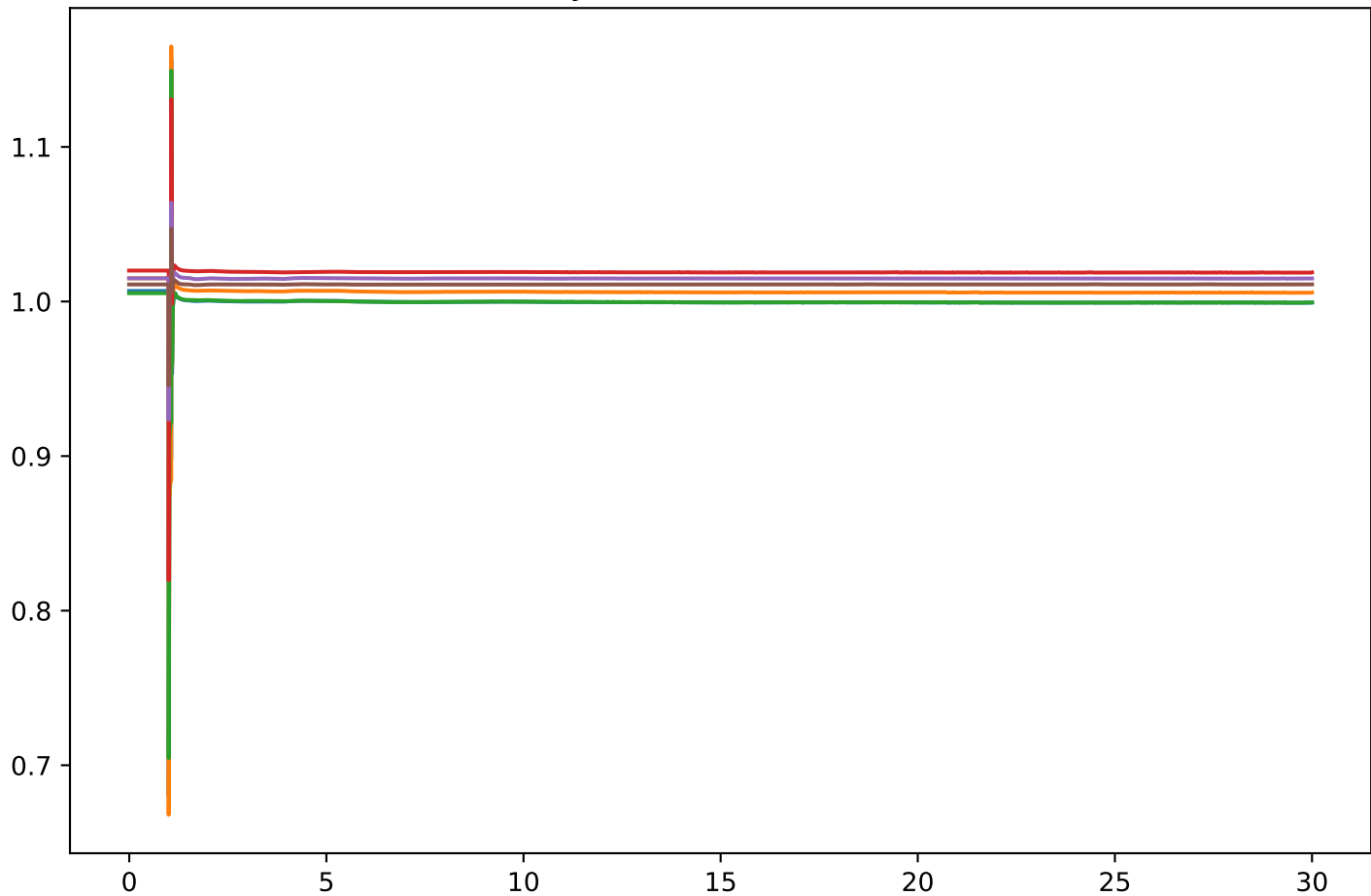


Caso: 1023-3-2037CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6817-6816-T4-C8\_STC-PANII

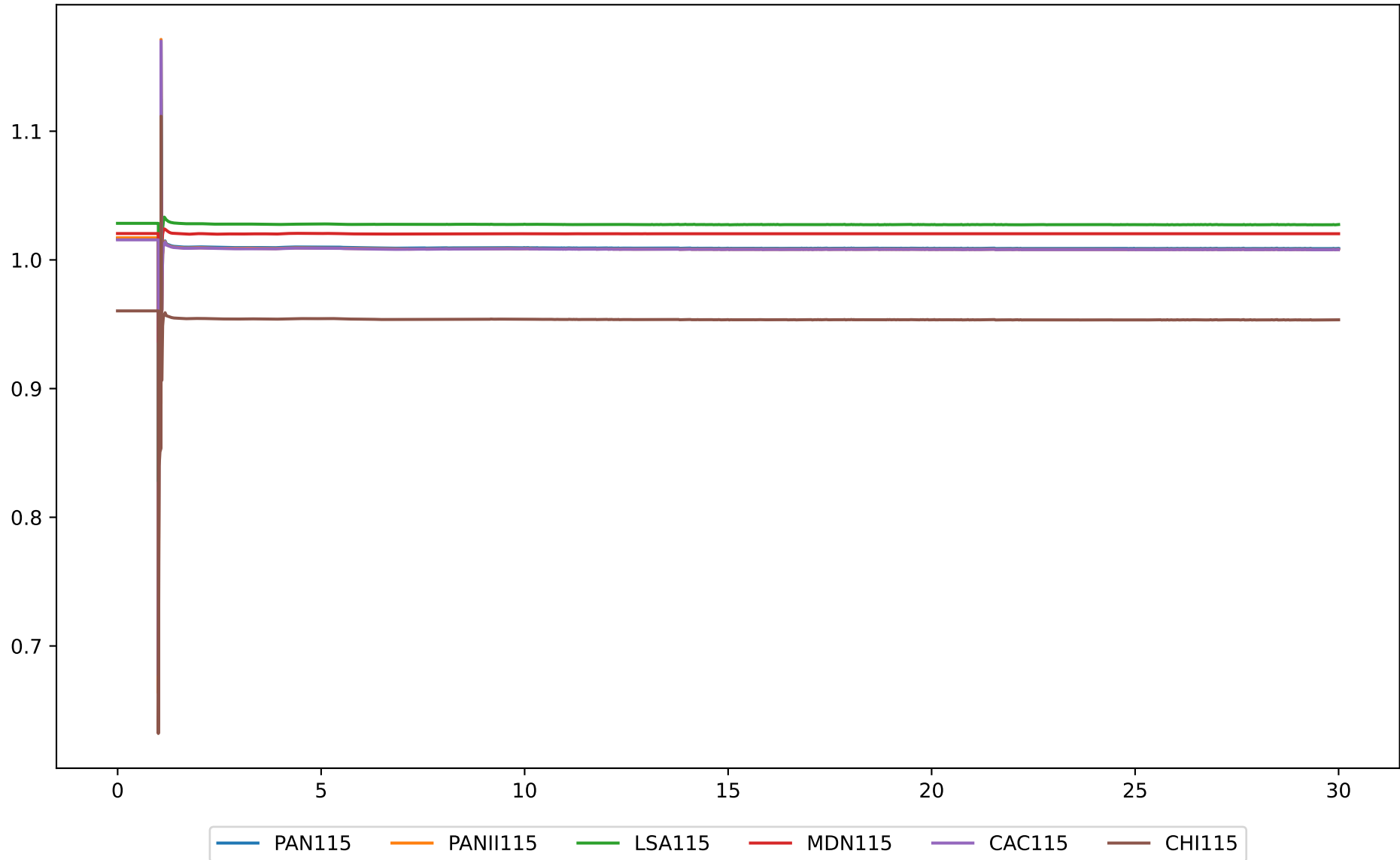
### Frecuencia (Hz)



# Voltajes 230kV - Panama



### Voltajes 115kV - Panama



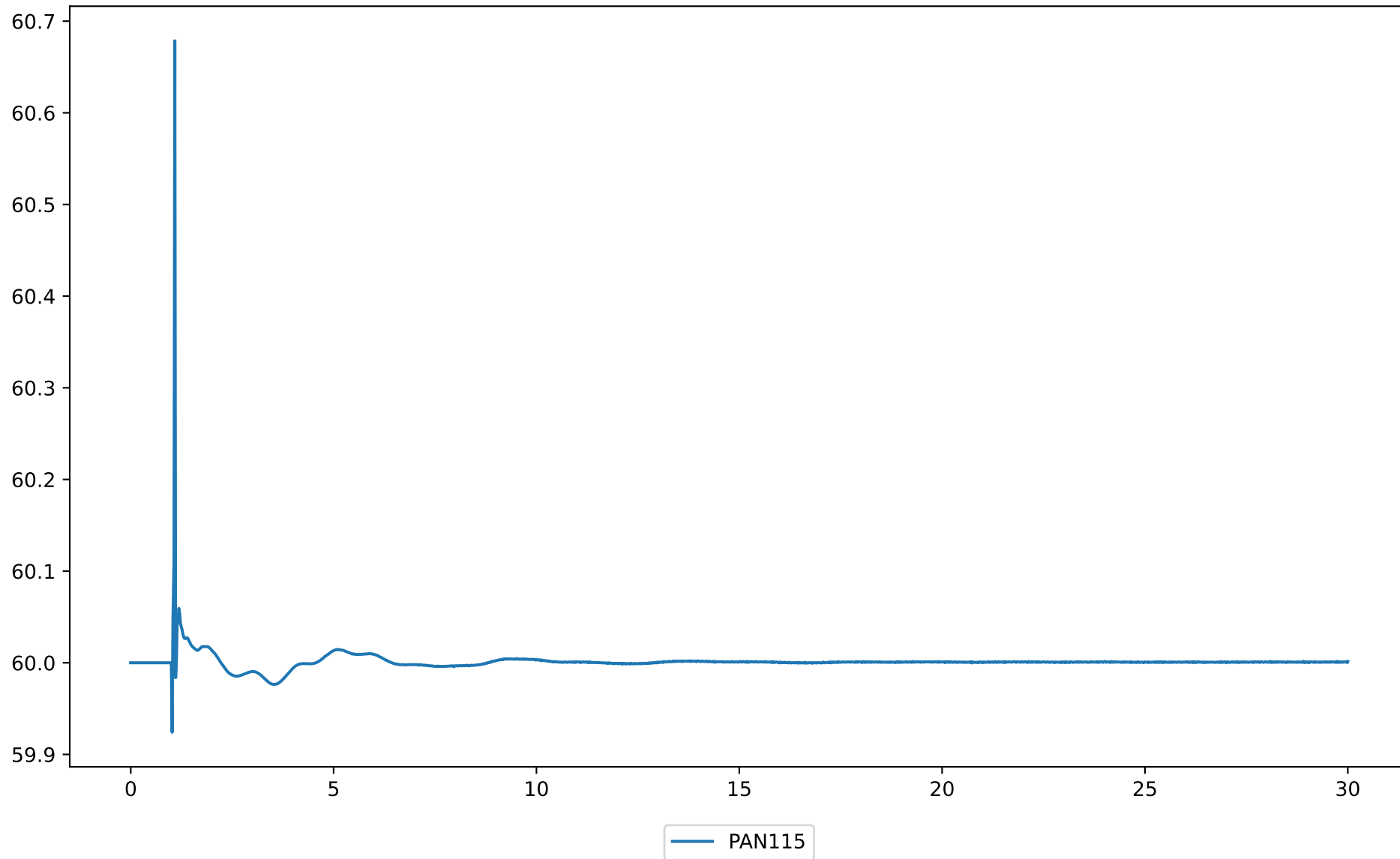


### Angulos de Rotacion de Maquinas - Panama

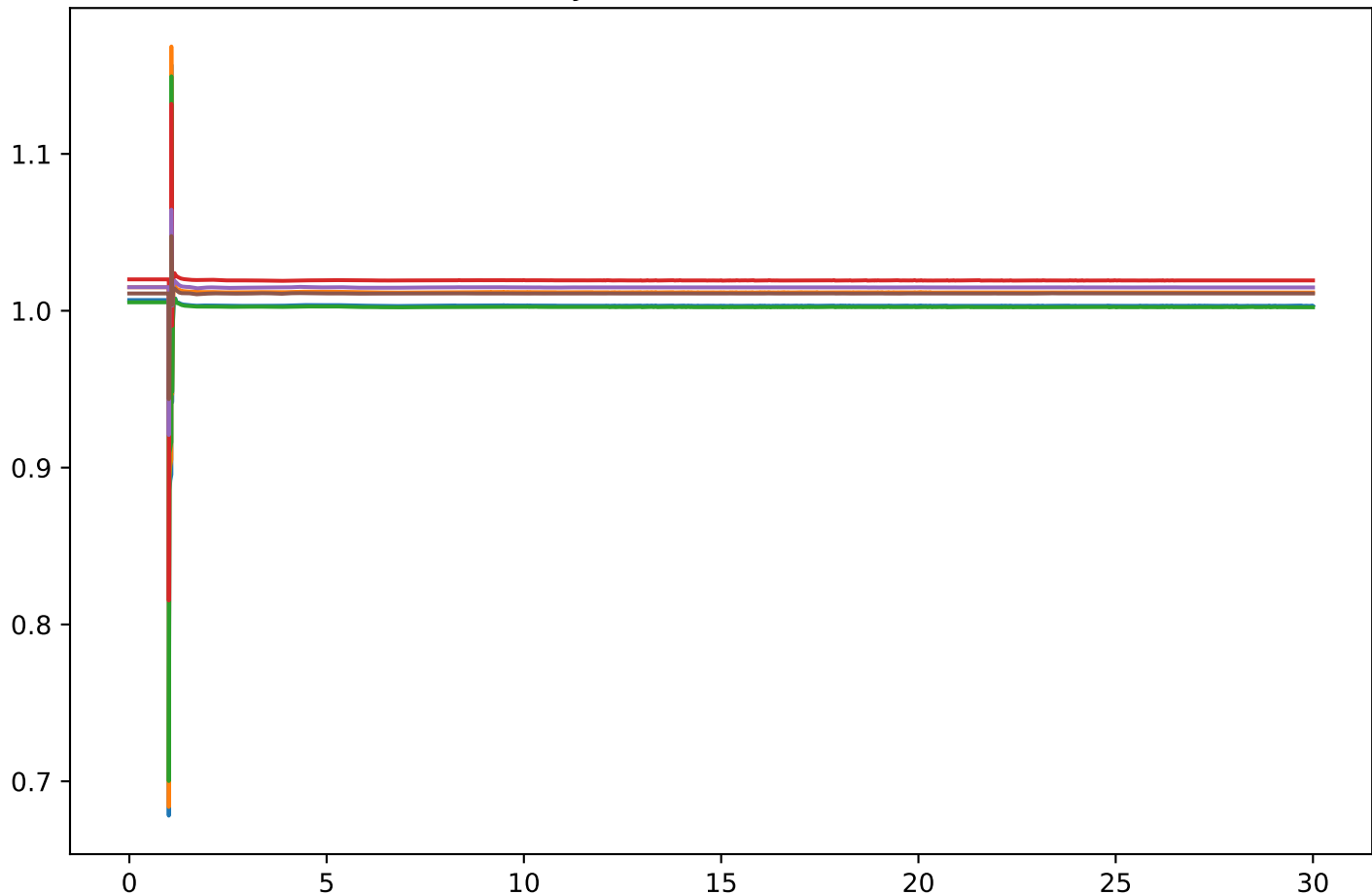


Caso: 1023-3-2037CA\_ModMax\_Lluv-500kV+STC - Contingencia: 6820-6823-1-C9\_STC-PAN3

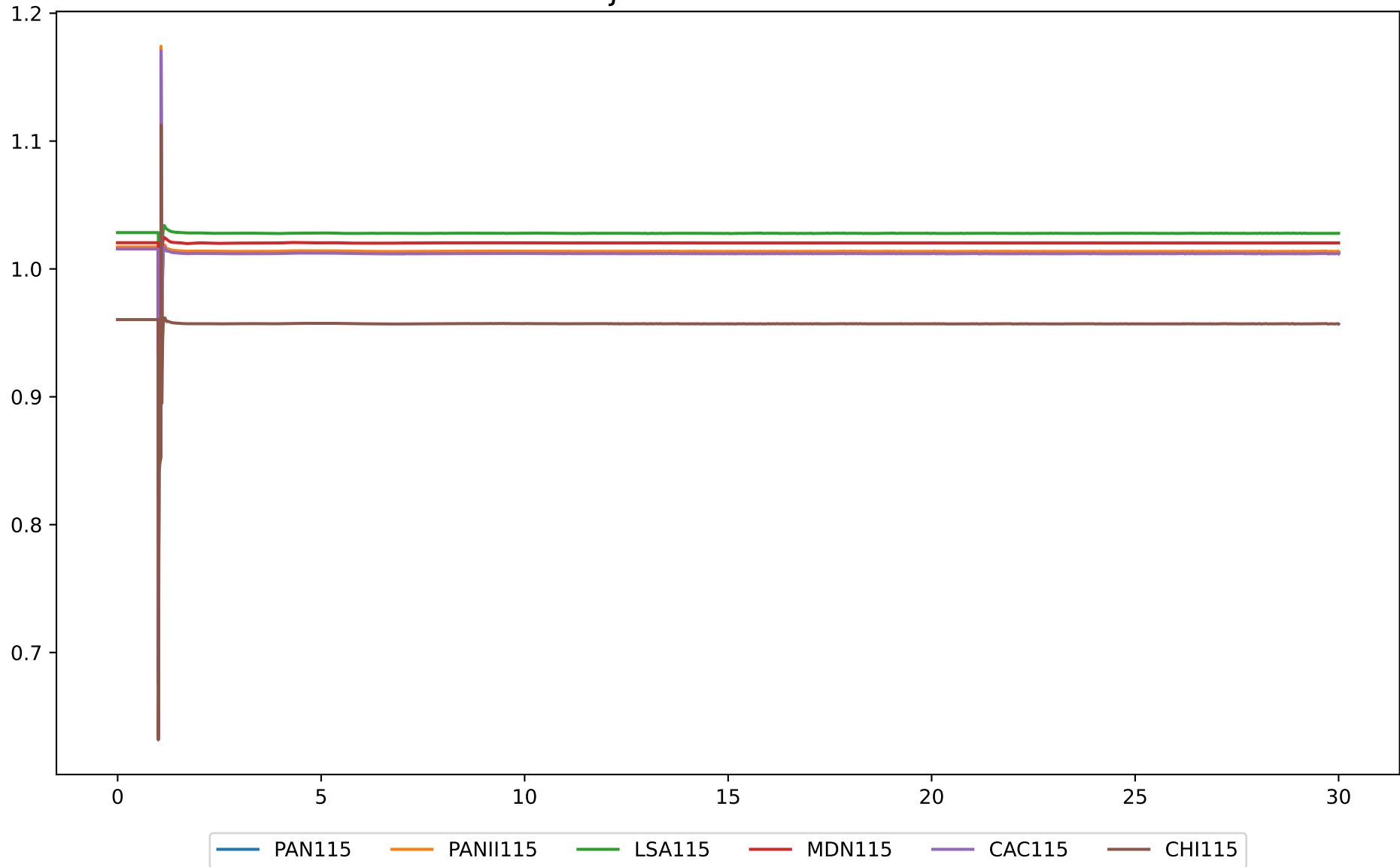
### Frecuencia (Hz)



# Voltajes 230kV - Panama



### Voltajes 115kV - Panama



### Angulos de Rotacion de Maquinas - Panama

