Measurements

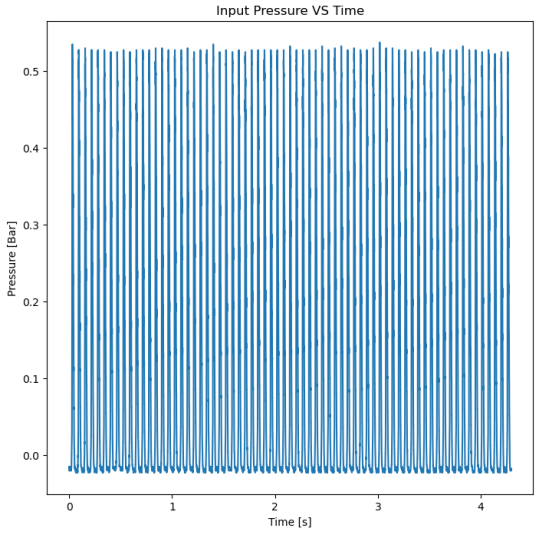
March 10, 2022

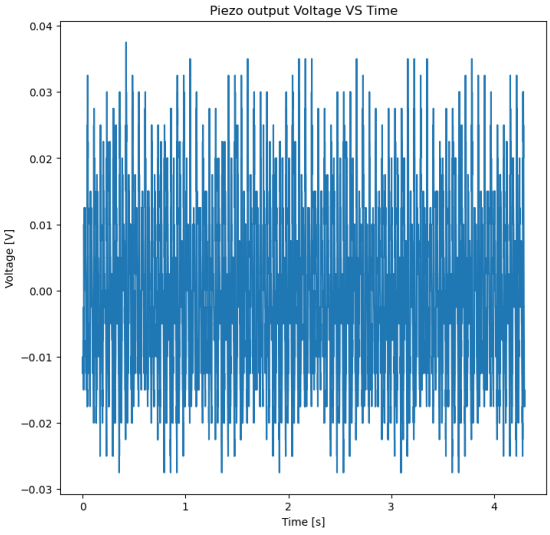
1 PARAMETERS

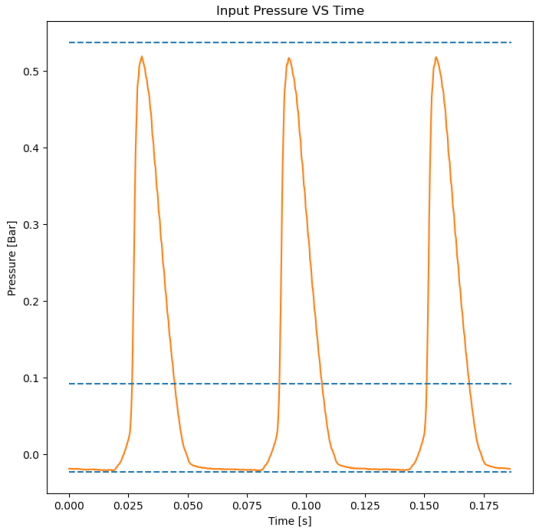
```
Sample name: ES.PVDF.002
Duration of measurements: 4.29 [s]
Load resistance: 2.00e+04 [Ohms]
Circuit resistance: 2.00e-01 [Ohms]
Number of periods displayed: 3
Maximum frequency for analysis: 200
```

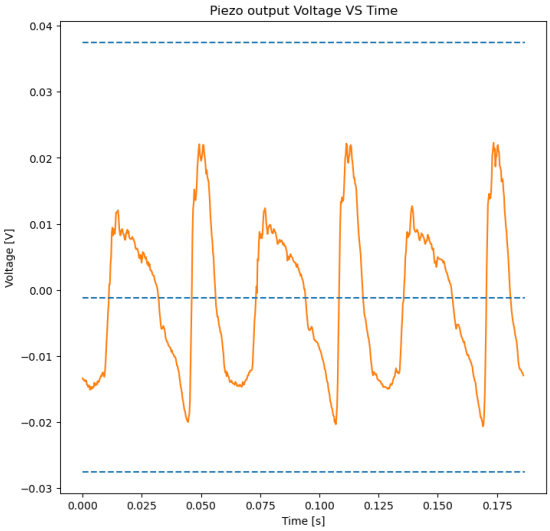
2 PRESSURE AND VOLTAGE MEASUREMENTS

```
The input frequency is: 16.07 Hz
```



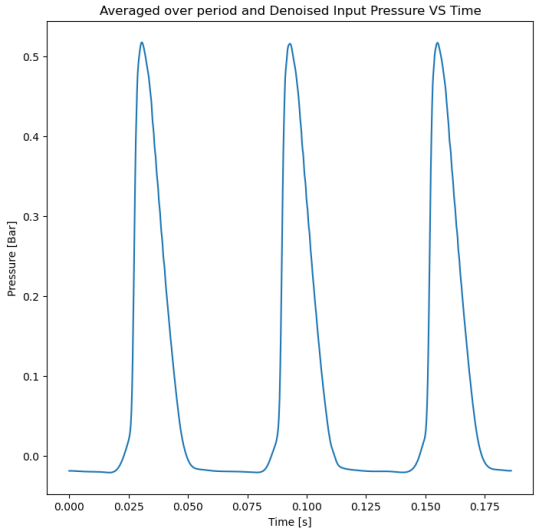


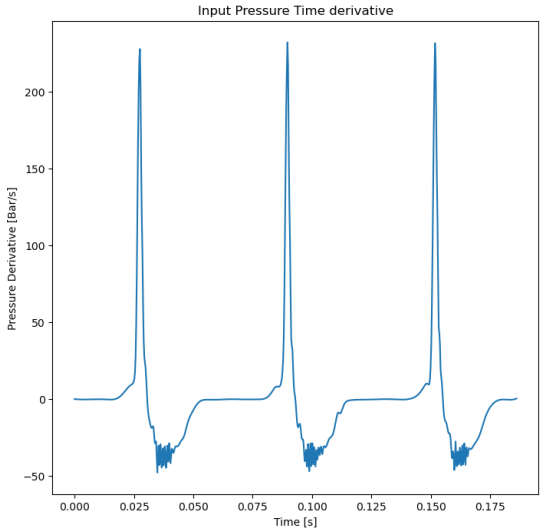




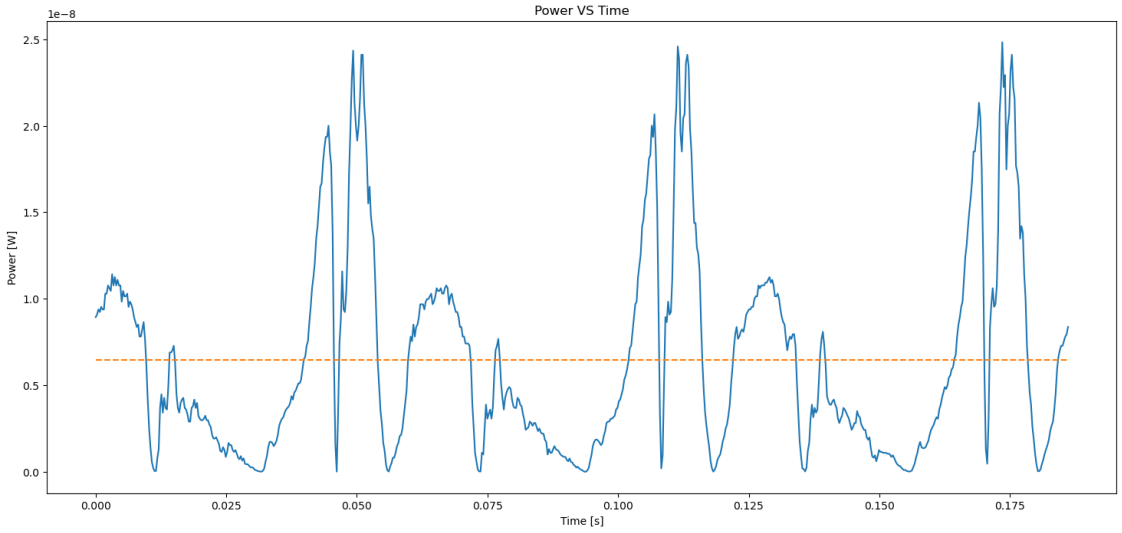

```
Max pressure: 0.54 [Bar]
Min pressure: -0.02 [Bar]
Peak to peak pressure: 0.56 [Bar]
Mean pressure: 0.09 [Bar]
Max voltage: 0.04 [V]
Min voltage: -0.03 [V]
Peak to peak voltage: 0.07 [V]
Mean voltage: -0.00 [V]
```

3 PRESSURE DERIVARTIVE





4 POWER

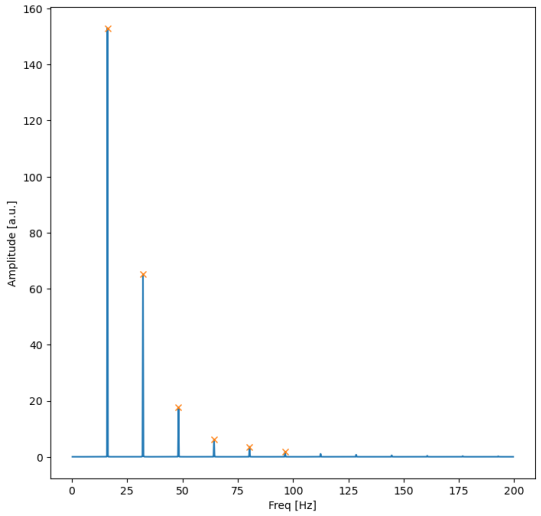


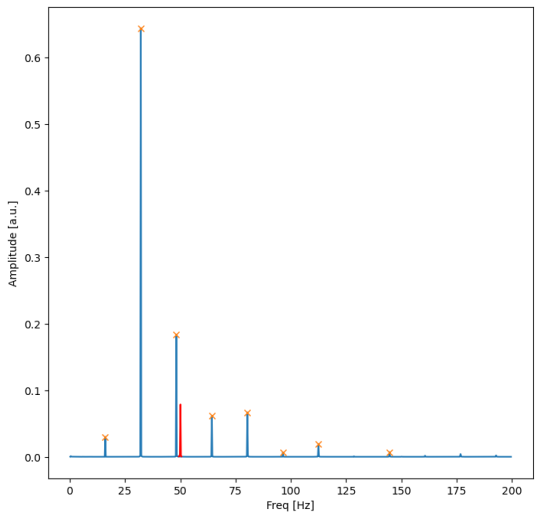

```
Mean power: 6.45e-09 [W]
```

5 FREQUENCY ANALYSIS

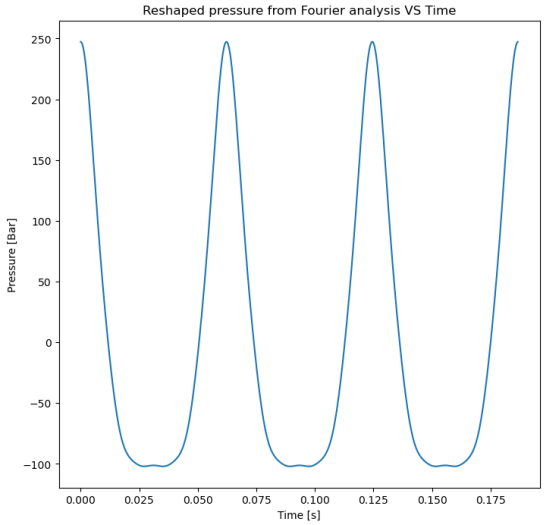
5.1 Perform Fourier transform

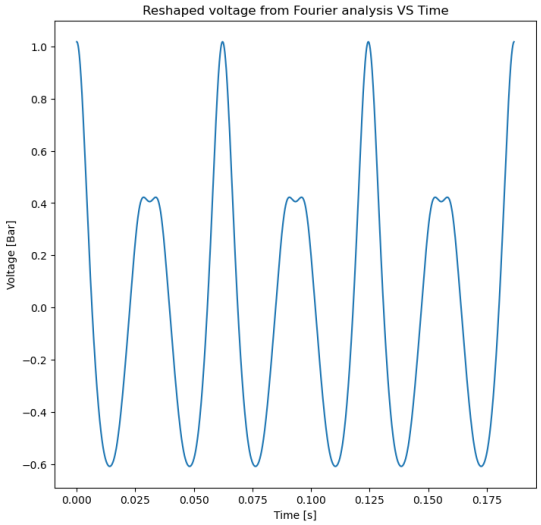
```
/Users/eliottsarrey/opt/anaconda3/lib/python3.8/site-
packages/numpy/core/_asarray.py:102: ComplexWarning: Casting complex values to
real discards the imaginary part
  return array(a, dtype, copy=False, order=order)
```





5.2 Recreate signals





6 MODEL CHECK UP