

Measurements

April 22, 2022

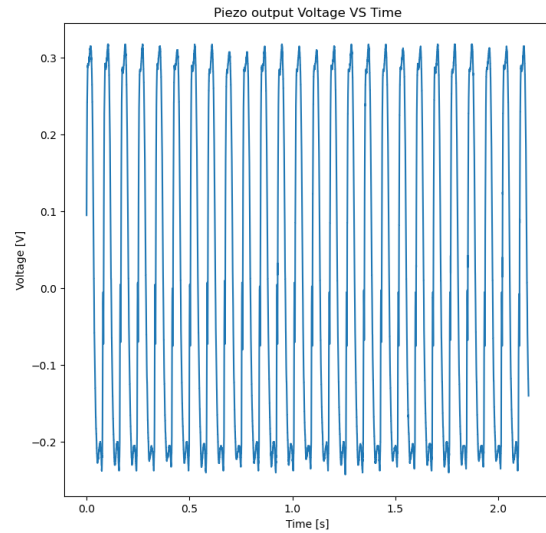
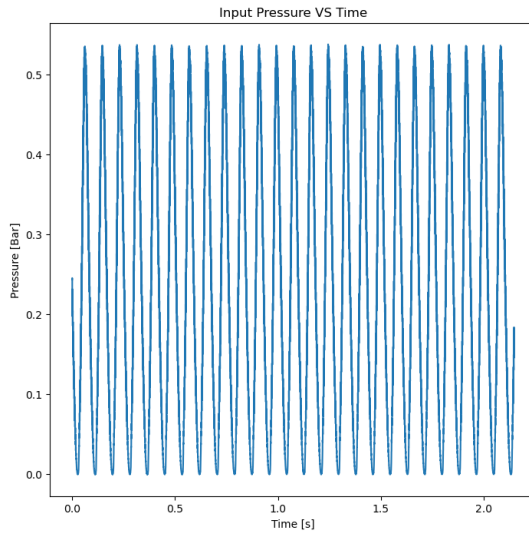
1 PARAMETERS

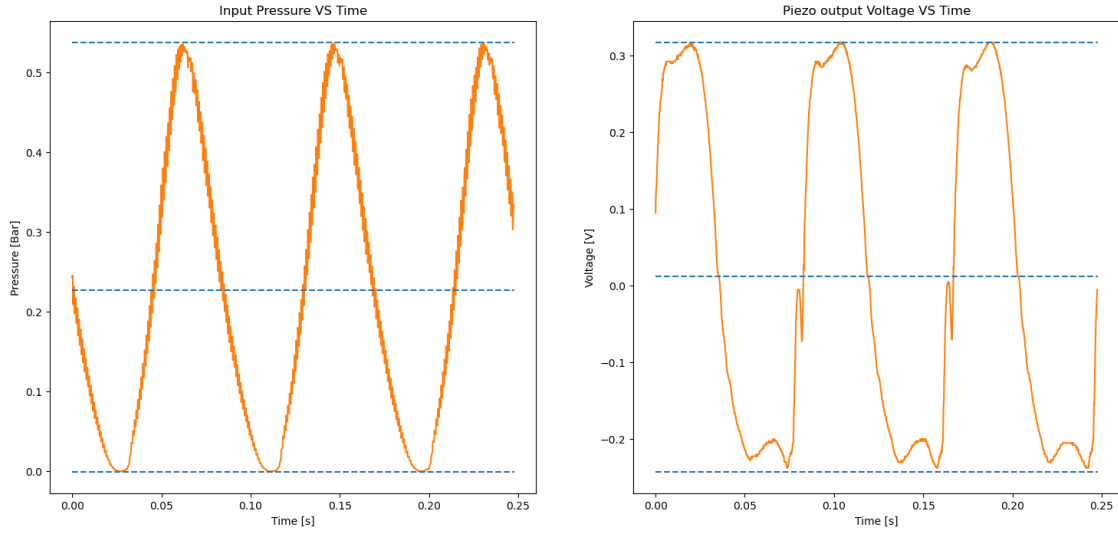
Sample name: ES.PVDV.E0.0m.100nm

| | Parameter | Value | Unit |
|---|------------------|---------------------|--------|
| 0 | Sample name | ES.PVDV.E0.0m.100nm | |
| 1 | Measure duration | 2.147483648 | [s] |
| 2 | Rload | 1000000.0 | [Ohms] |
| 3 | Nb Periods | 3.0 | [1] |
| 4 | R Circuit | 1.0 | [Ohms] |
| 5 | Max Frequency | 100.0 | [Hz] |

2 PRESSURE AND VOLTAGE MEASUREMENTS

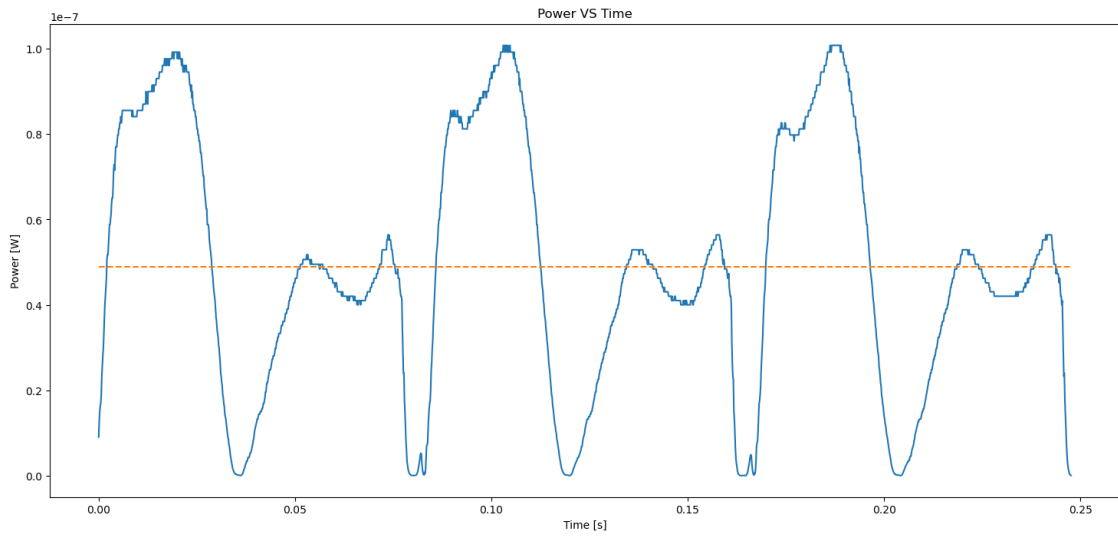
The input frequency is: 12.11 Hz





| | Variable | Min | Max | Peak to peak | Mean | Mean of absolute value |
|---|----------------|-----------|----------|--------------|----------|------------------------|
| 0 | Pressure [Bar] | -1.05e-03 | 5.38e-01 | 5.39e-01 | 2.27e-01 | 2.27e-01 |
| 1 | Voltage [V] | -2.42e-01 | 3.18e-01 | 5.60e-01 | 1.23e-02 | 2.01e-01 |

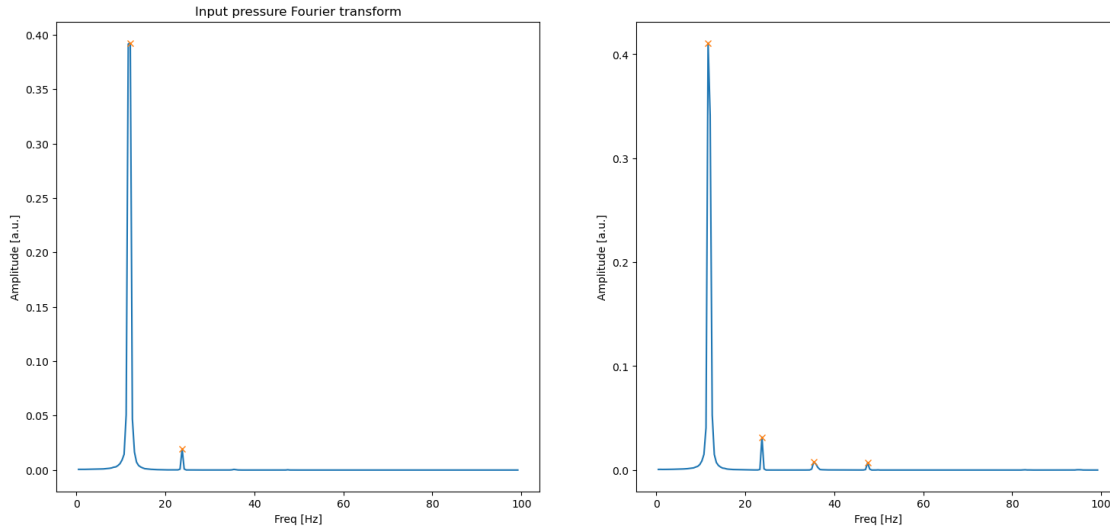
3 POWER



Mean power: 4.89e-08 [W]

4 FREQUENCY ANALYSIS

If an harmonic appears in the pressure Fourier transform. The piston has to be set to atmospheric pressure.



4.1 Voltage frequency peaks

| | Freq [Hz] | Amplitude percentage |
|---|-----------|----------------------|
| 0 | 11.64 | 41.08 |
| 1 | 23.75 | 3.16 |
| 2 | 35.39 | 0.79 |
| 3 | 47.50 | 0.71 |

4.2 Pressure frequency peaks

| | Freq [Hz] | Amplitude percentage |
|---|-----------|----------------------|
| 0 | 12.11 | 39.25 |
| 1 | 23.75 | 1.96 |