

# Measurements

May 20, 2022

## 1 PARAMETERS

Sample name: ES.PVDF.E9.30m.100nm

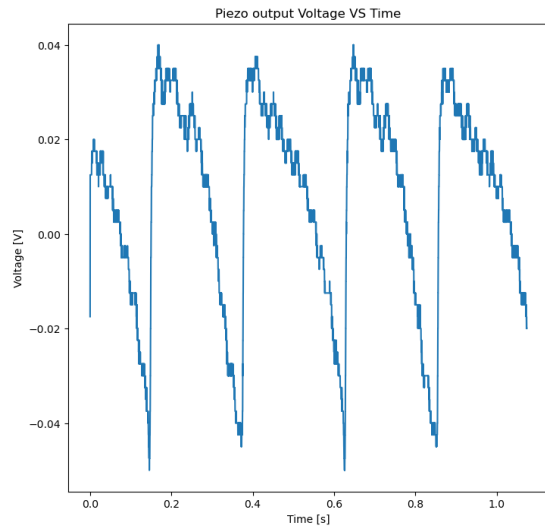
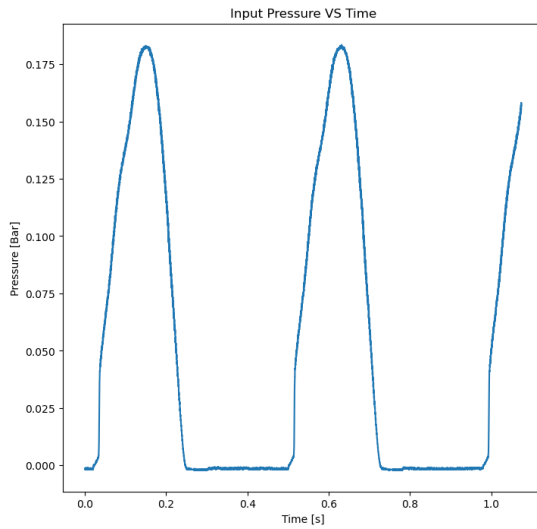
	Parameter	Value	Unit
0	Sample name	ES.PVDF.E9.30m.100nm	
1	Measure duration	1.073741824	[s]
2	Rload	1000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	1000000.0	[Ohms]
5	Max Frequency	100.0	[Hz]

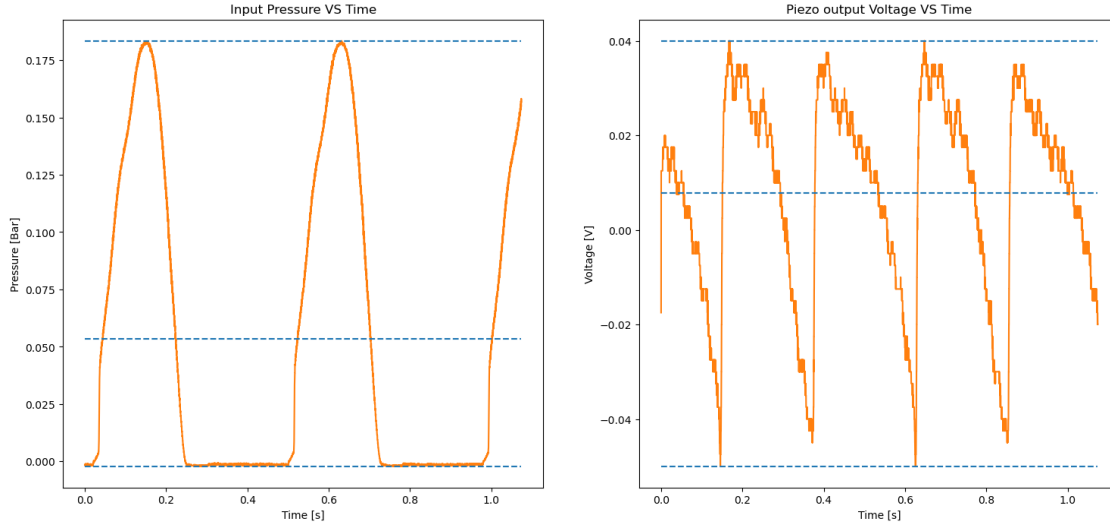
## 2 PRESSURE AND VOLTAGE MEASUREMENTS

Measurement beginning

Measurement done

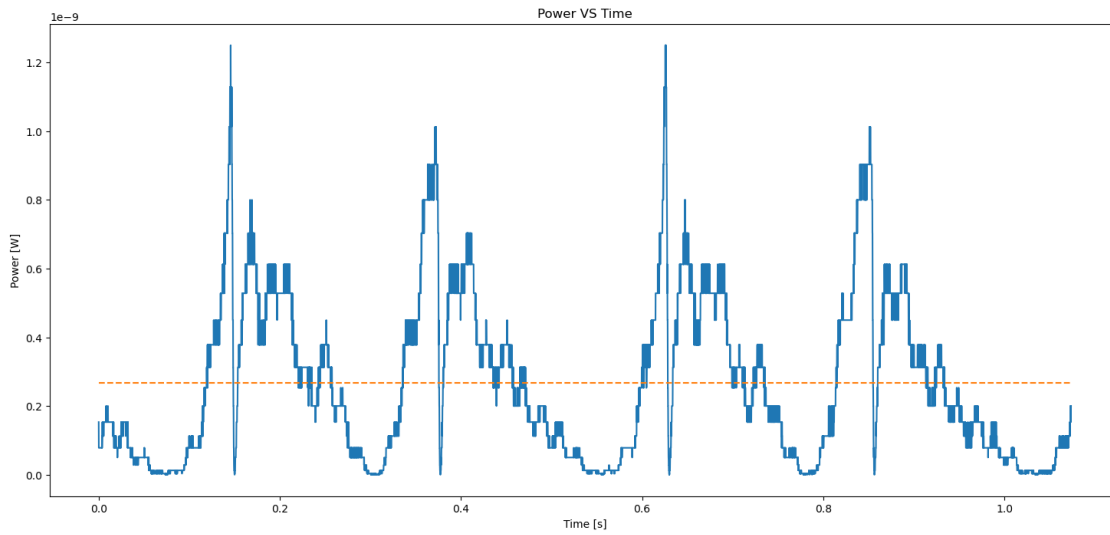
The input frequency is: 1.86 Hz





	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-2.10e-03	1.83e-01	1.85e-01	5.34e-02	5.48e-02
1	Voltage [V]	-5.00e-02	4.00e-02	9.00e-02	7.86e-03	2.02e-02

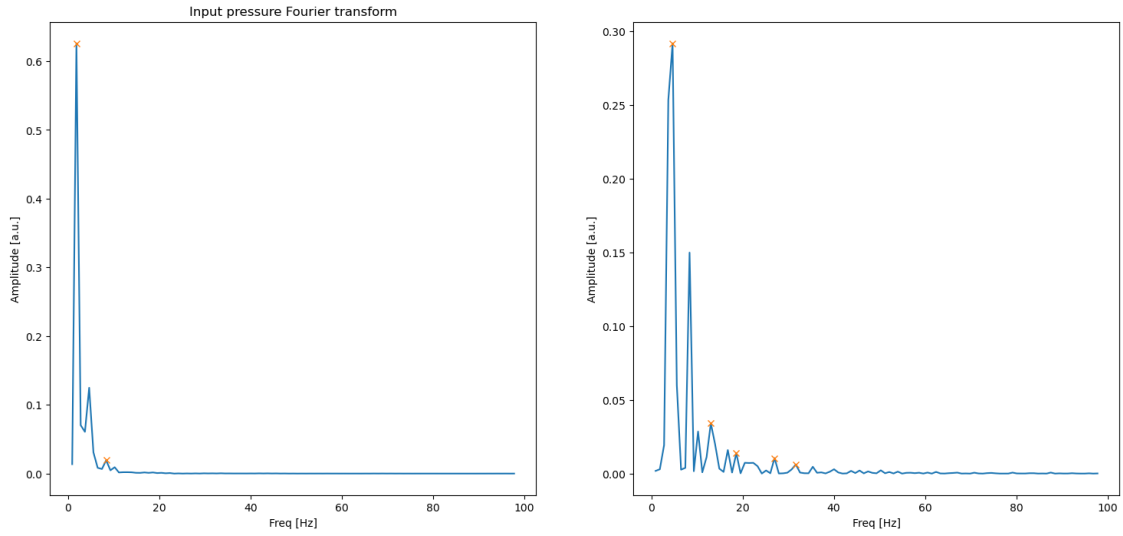
### 3 POWER



Mean power: 2.66e-10 [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	4.66	29.19
1	13.04	3.41
2	18.63	1.38
3	27.01	1.05
4	31.67	0.61

### 4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	1.86	62.60
1	8.38	1.93