

Measurements

May 27, 2022

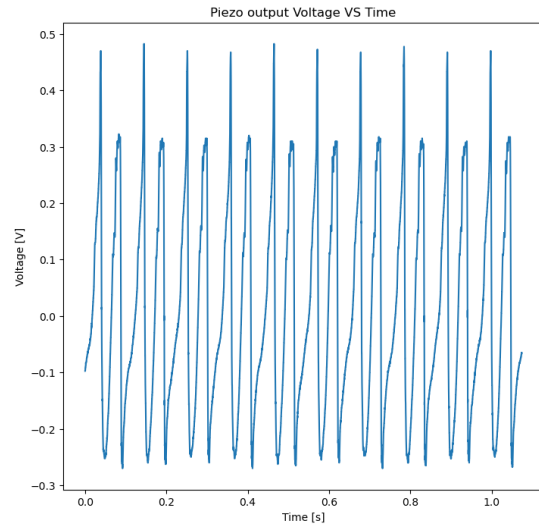
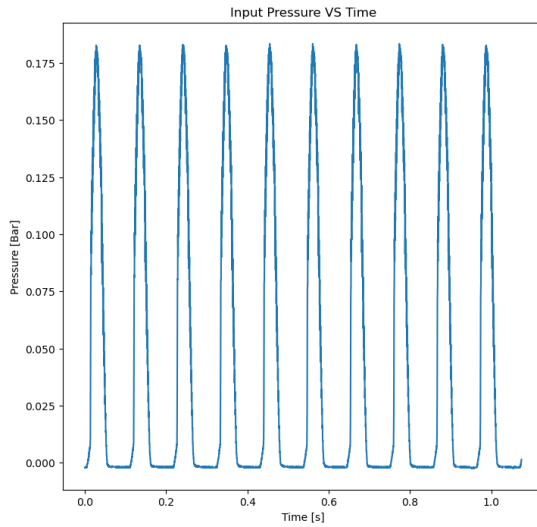
1 PARAMETERS

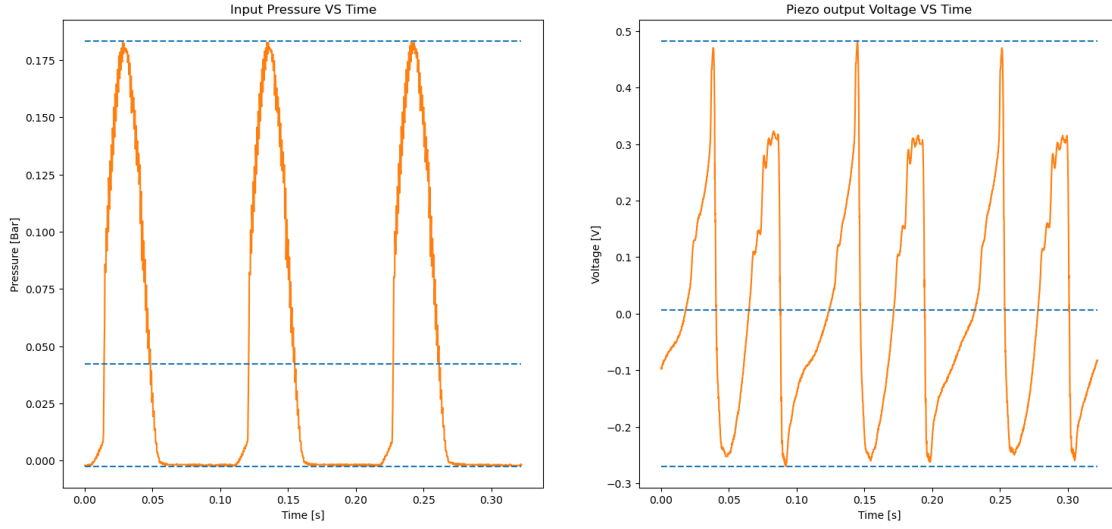
Sample name: PVDF-109-30min

	Parameter	Value	Unit
0	Sample name	PVDF-109-30min	
1	Measure duration	1.073741824	[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

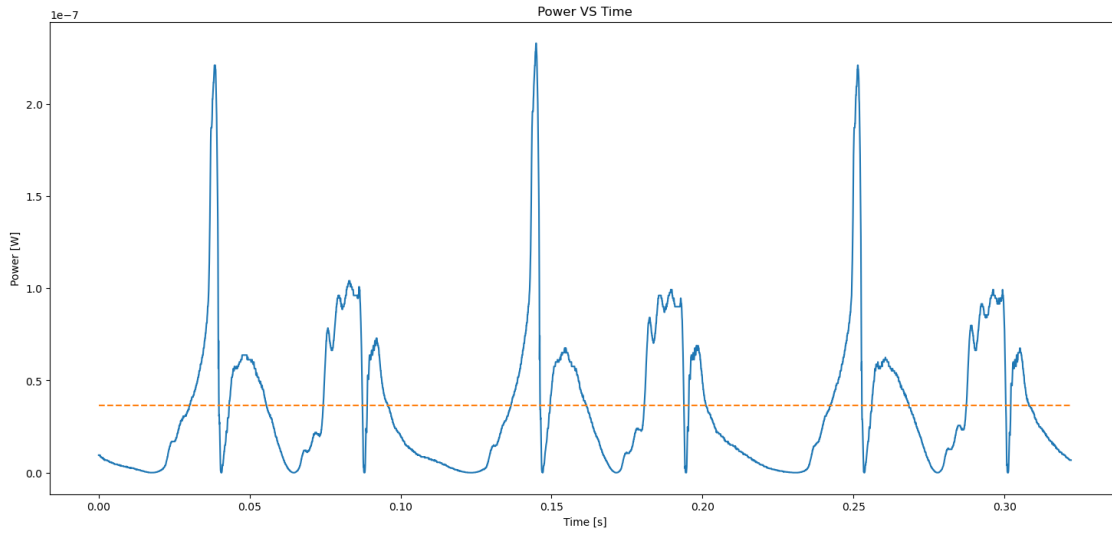
The input frequency is: 9.31 Hz





	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-2.45e-03	1.83e-01	1.86e-01	4.22e-02	4.42e-02
1	Voltage [V]	-2.70e-01	4.82e-01	7.52e-01	6.89e-03	1.63e-01

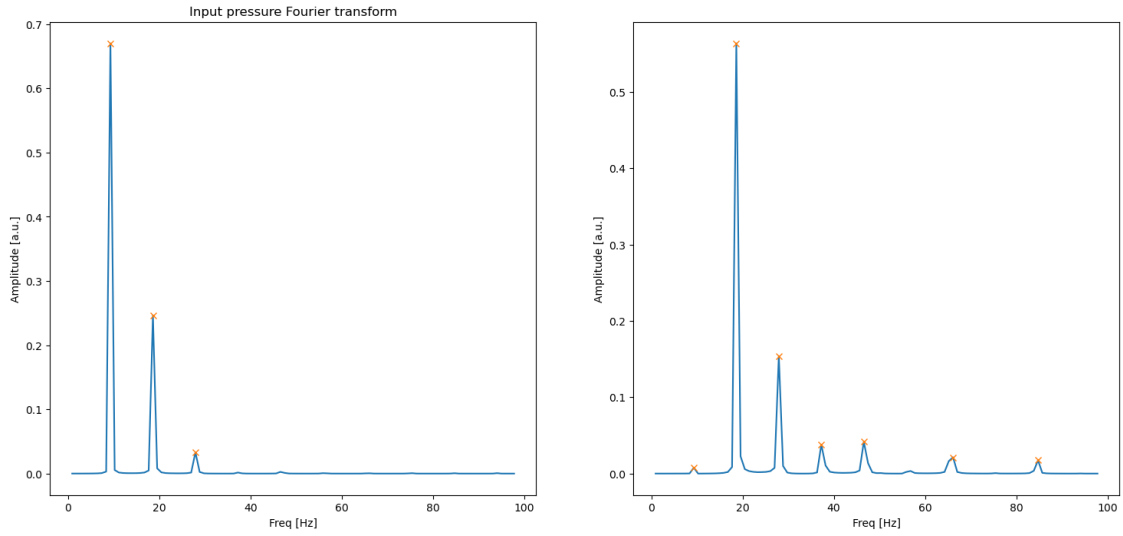
3 POWER



Mean power: 3.64e-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	9.31	0.77
1	18.63	56.36
2	27.94	15.38
3	37.26	3.79
4	46.57	4.17
5	66.13	2.13
6	84.76	1.73

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	9.31	67.00
1	18.63	24.63
2	27.94	3.30