

Measurements

May 27, 2022

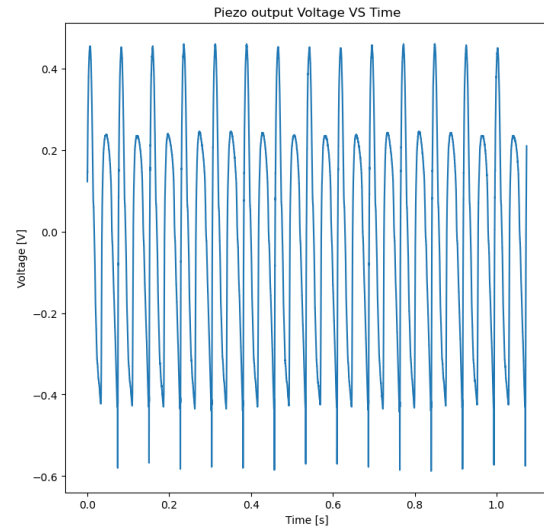
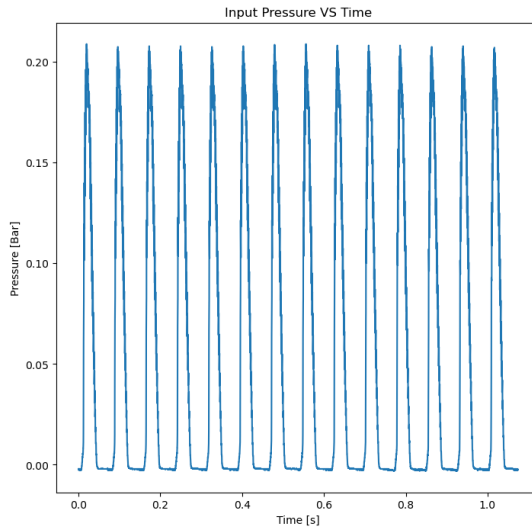
1 PARAMETERS

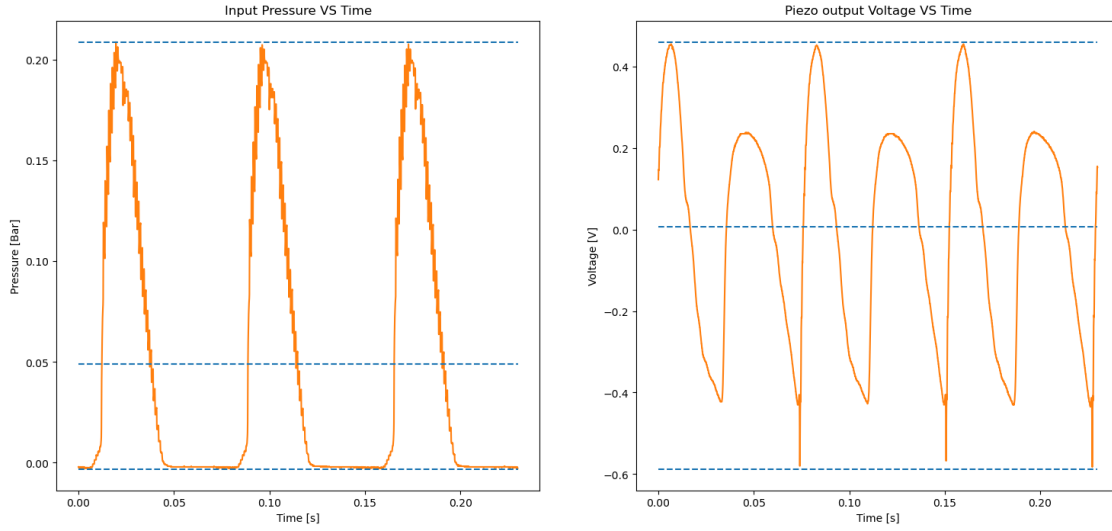
Sample name: PVDF-109-30min

	Parameter	Value	Unit
0	Sample name	PVDF-109-30min	
1	Measure duration	1.073741824	[s]
2	Rload	2000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	10000000.0	[Ohms]
5	Max Frequency	100.0	[Hz]

2 PRESSURE AND VOLTAGE MEASUREMENTS

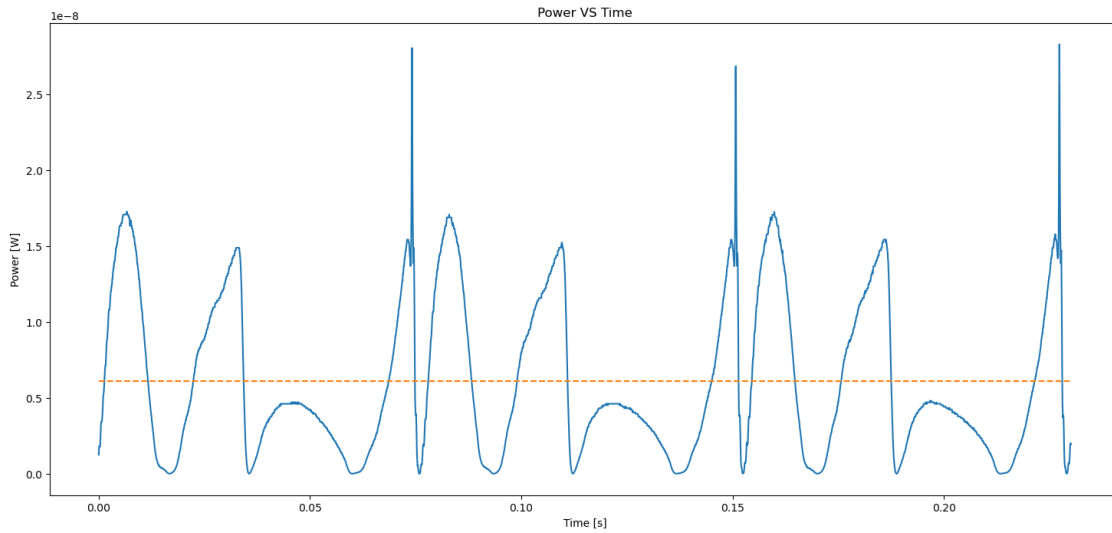
The input frequency is: 13.04 Hz





	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-3.15e-03	2.09e-01	2.12e-01	4.91e-02	5.14e-02
1	Voltage [V]	-5.88e-01	4.60e-01	1.05e+00	6.38e-03	2.39e-01

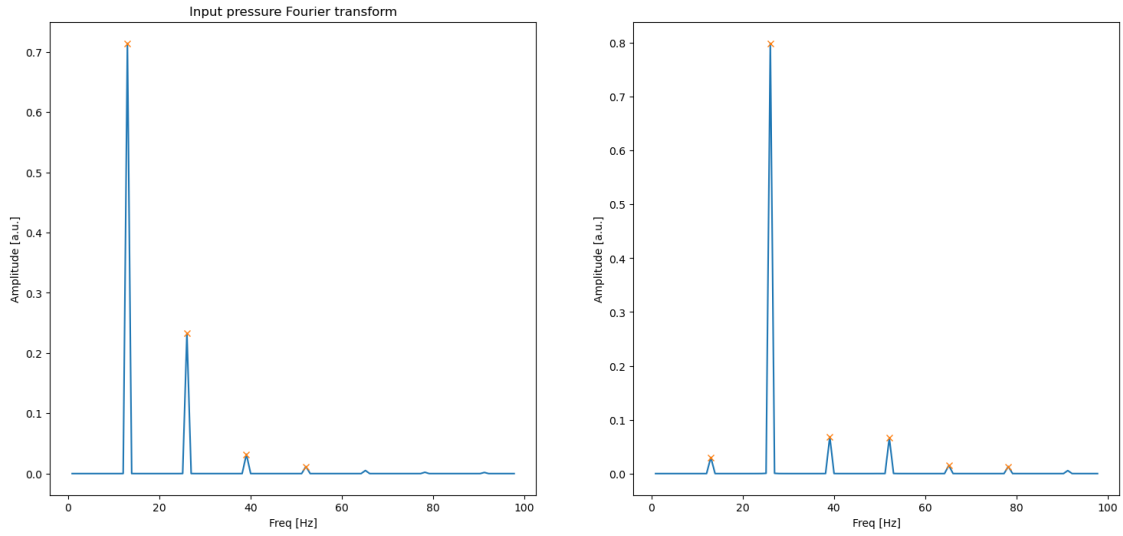
3 POWER



Mean power: 6.12e-09 [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	13.04	3.01
1	26.08	79.91
2	39.12	6.83
3	52.16	6.62
4	65.20	1.51
5	78.24	1.31

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	13.04	71.41
1	26.08	23.27
2	39.12	3.20
3	52.16	1.17