

Measurements

May 27, 2022

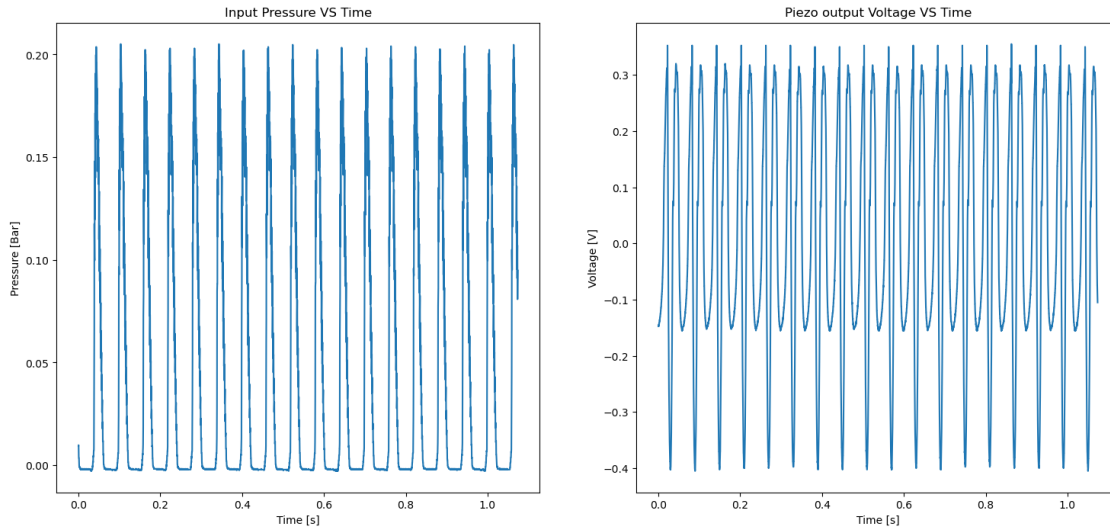
1 PARAMETERS

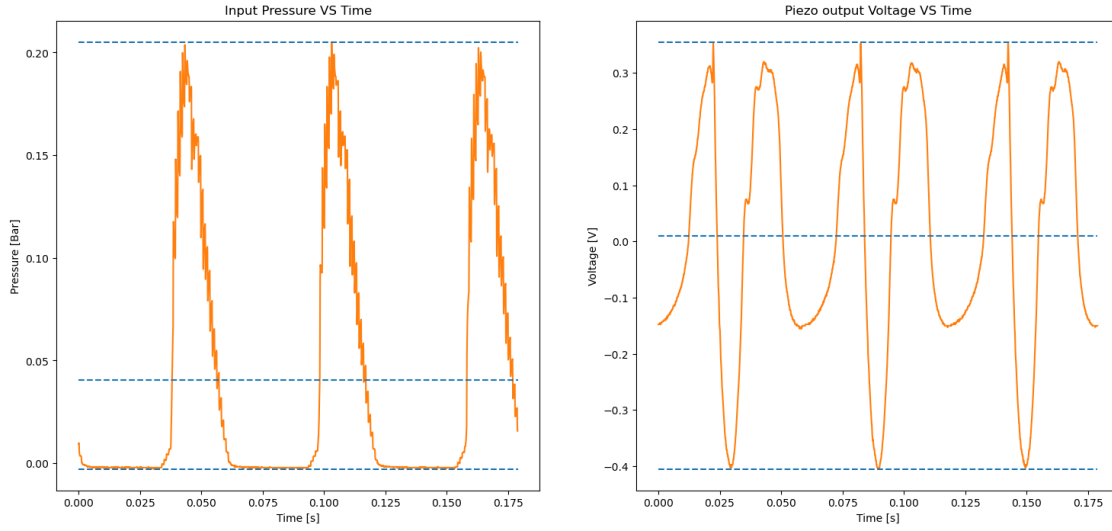
Sample name: PVDF-109-30min

	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

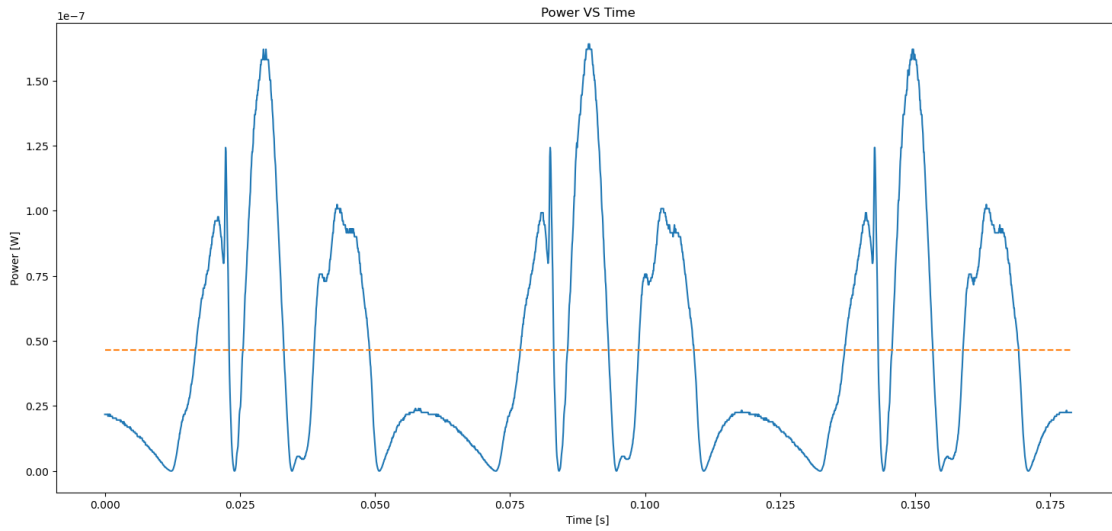
The input frequency is: 16.76 Hz





	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-2.80e-03	2.05e-01	2.08e-01	4.07e-02	4.28e-02
1	Voltage [V]	-4.05e-01	3.55e-01	7.60e-01	9.53e-03	1.88e-01

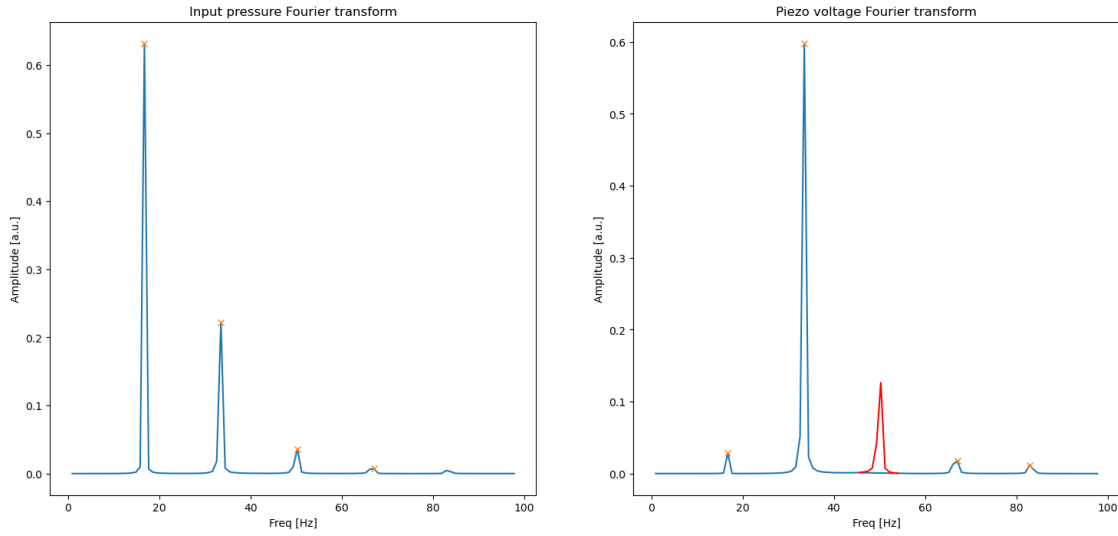
3 POWER



Mean power: 4.66e-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	16.76	2.84
1	33.53	59.79
2	67.06	1.77
3	82.89	1.18

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	16.76	63.19
1	33.53	22.21
2	50.29	3.61
3	67.06	0.71