Measurements

May 6, 2022

1 PARAMETERS

Sample name: AB-211206-085-ZNO

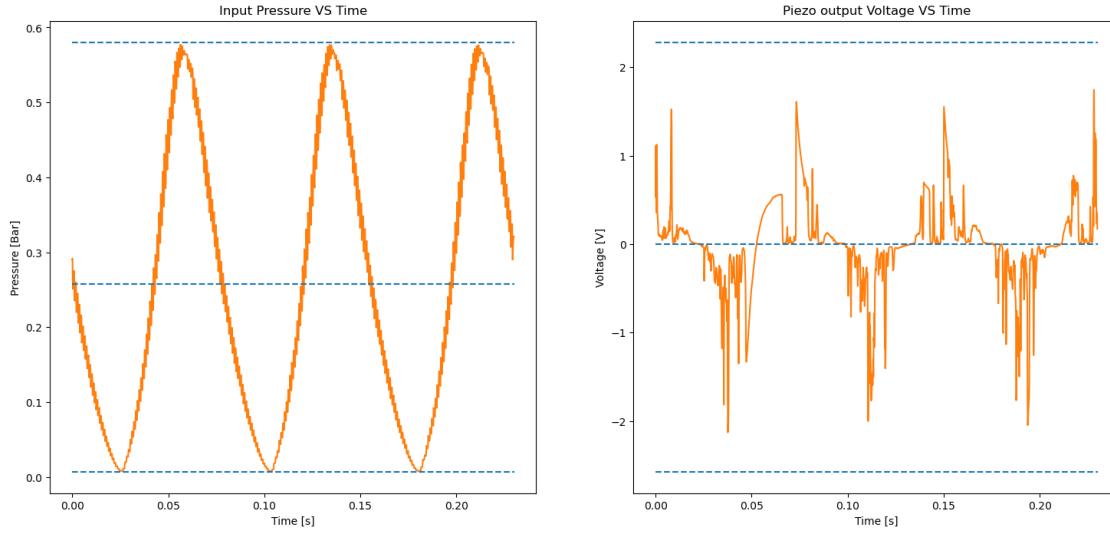|	Parameter	Value	Unit
0	Sample name	AB-211206-085-ZNO	
1	Measure duration	2.147483648	[s]
2	Rload	1000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	164.0	[Hz]

2 PRESSURE AND VOLTAGE MEASUREMENTS

The input frequency is: 13.04 Hz

Input Pressure VS Time / Piezo output Voltage VS Time
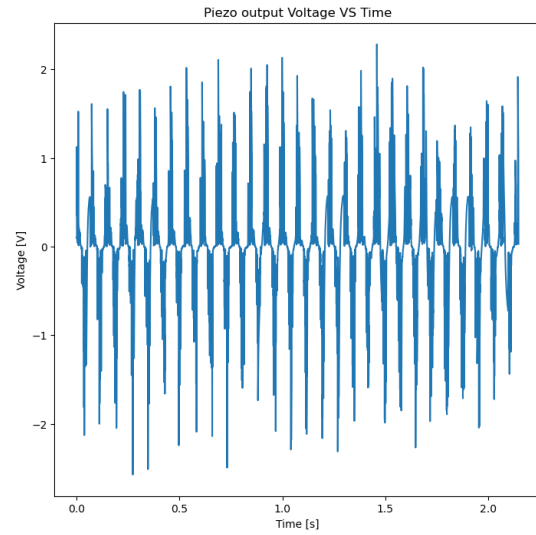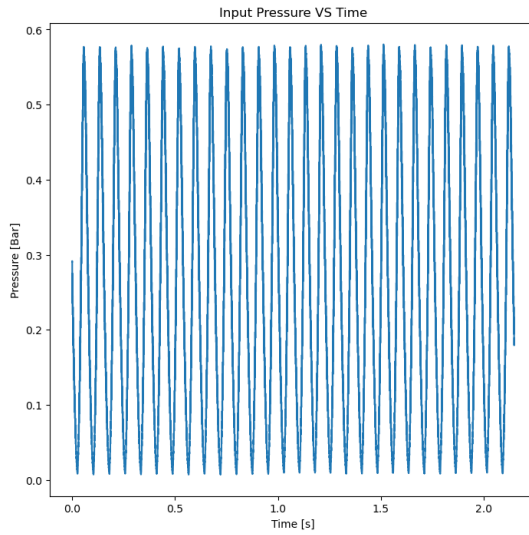
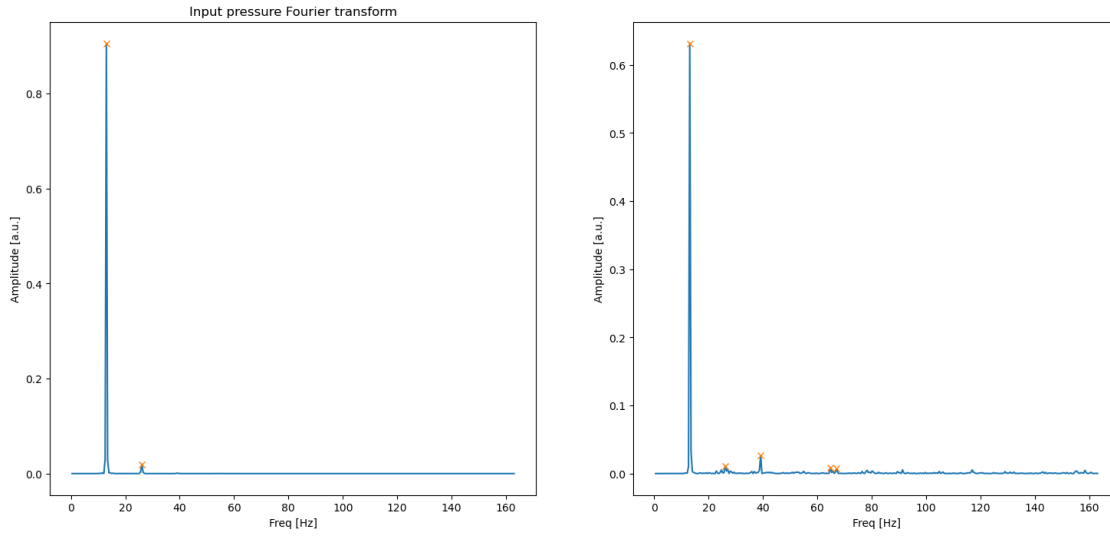|	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	7.00e-03	5.80e-01	5.73e-01	2.58e-01	2.58e-01
1	Voltage [V]	-2.57e+00	2.28e+00	4.86e+00	3.27e-03	3.29e-01

3 POWER

Power VS Time
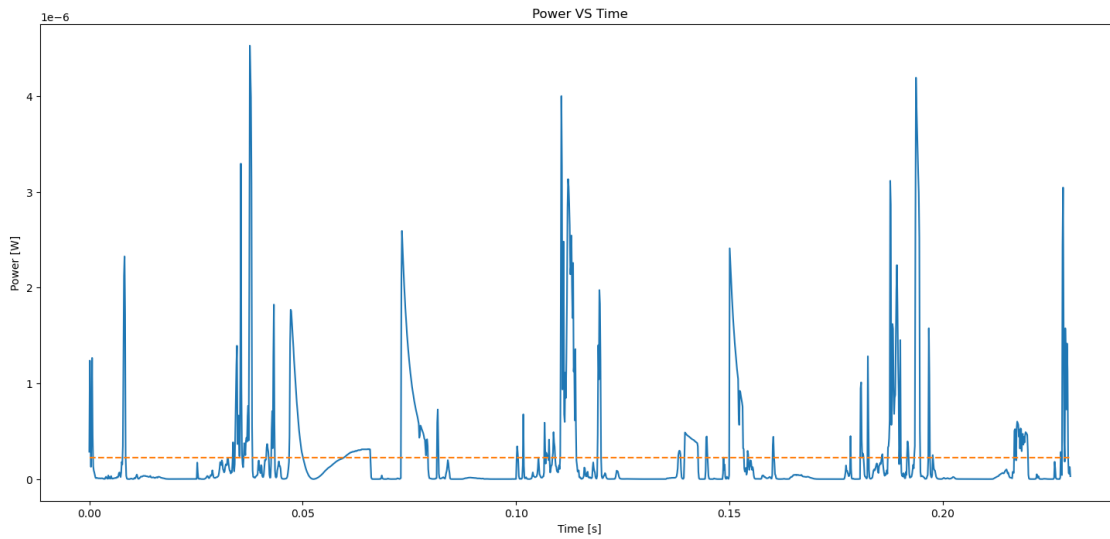
Mean power: 2.20e-07 [W]

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	63.17
1	26.08	1.13
2	39.12	2.66
3	64.73	0.92
4	67.06	0.76

4.2   Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	13.04	90.57
1	26.08	1.97