Measurements

May 6, 2022
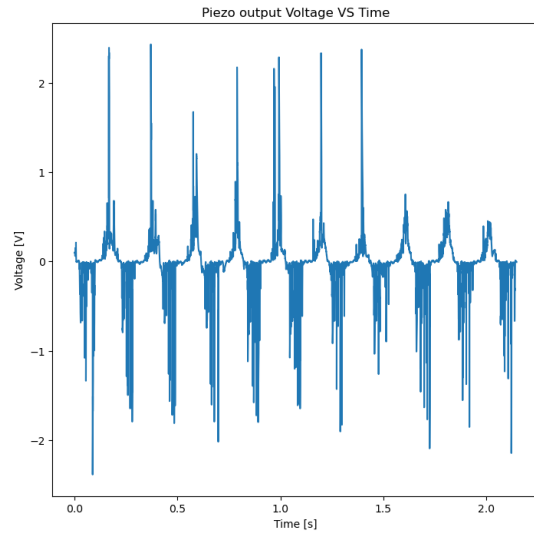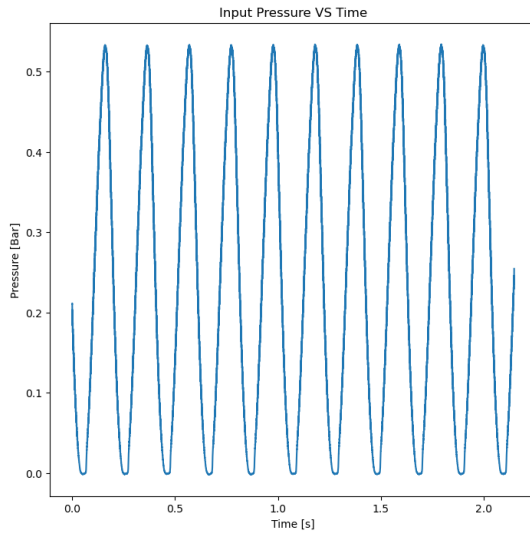
1 PARAMETERS

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: 5.12 Hz
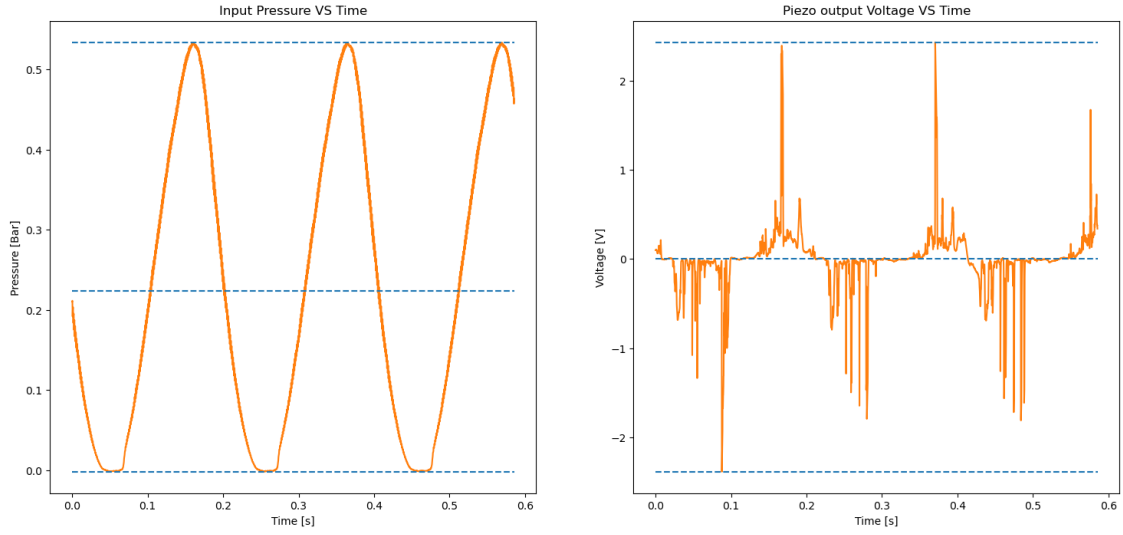
	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-1.75e-03	5.34e-01	5.35e-01	2.24e-01	2.24e-01
1	Voltage [V]	-2.39e+00	2.43e+00	4.82e+00	-1.35e-03	1.54e-01

3 POWER
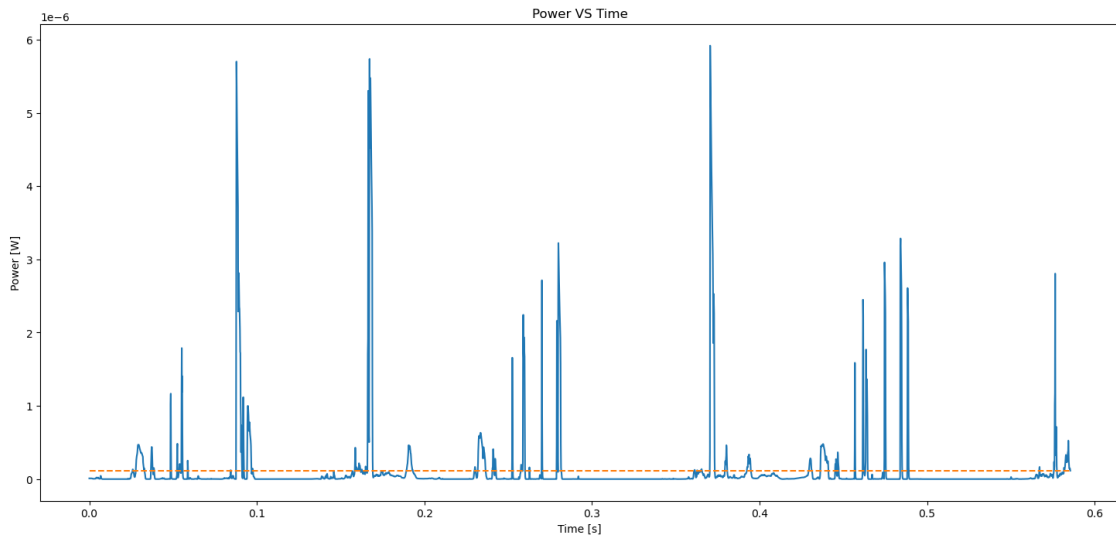

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Mean power: 1.17e-07 [W]
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4 FREQUENCY ANALYSIS

If an harmonic appears in the pressure Fourier transform. The piston has to be set to atmospheric pressure.

4.1 Voltage frequency peaks

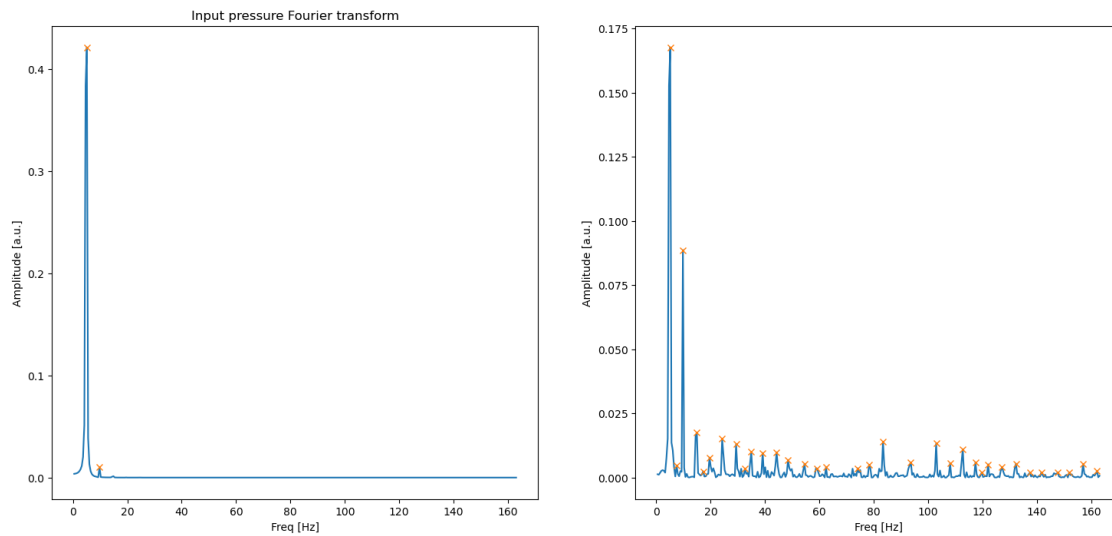|	Freq [Hz]	Amplitude percentage
0	5.12	16.76
1	7.45	0.47
2	9.78	8.87
3	14.90	1.76
4	17.23	0.24
5	19.56	0.78
6	24.22	1.50
7	29.34	1.30
8	32.60	0.34
9	34.93	1.00
10	39.12	0.96
11	44.24	0.99
12	48.43	0.69
13	54.49	0.53
14	59.14	0.35
15	62.40	0.41
16	74.04	0.36
17	78.24	0.50
18	83.36	1.40
19	93.60	0.60
20	102.92	1.32
21	108.04	0.56
22	112.70	1.11
23	117.35	0.60
24	119.68	0.20
25	122.01	0.52
26	127.13	0.41
27	132.26	0.54
28	137.38	0.19
29	141.57	0.20
30	147.62	0.21
31	151.81	0.21
32	156.94	0.53
33	162.06	0.26

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	5.12	42.10
1	9.78	1.00