Measurements

April 22, 2022

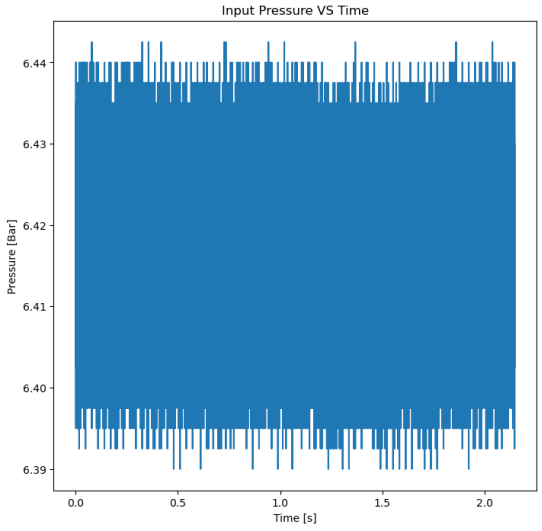
1 PARAMETERS

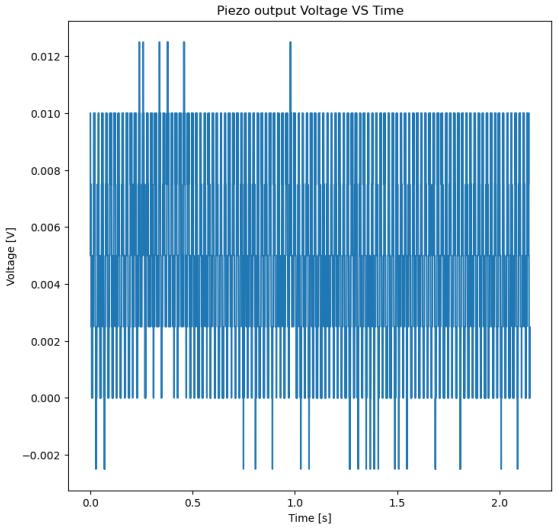
`Sample name: ES.PVDV.E0.0m.100nm`

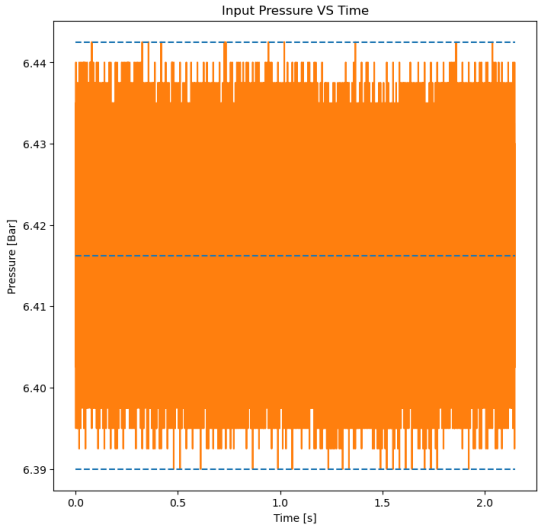
	Parameter	Value	Unit
0	Sample name	ES.PVDV.E0.0m.100nm	
1	Measure duration	2.147483648	[s]
2	Rload	1000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	100.0	[Hz]

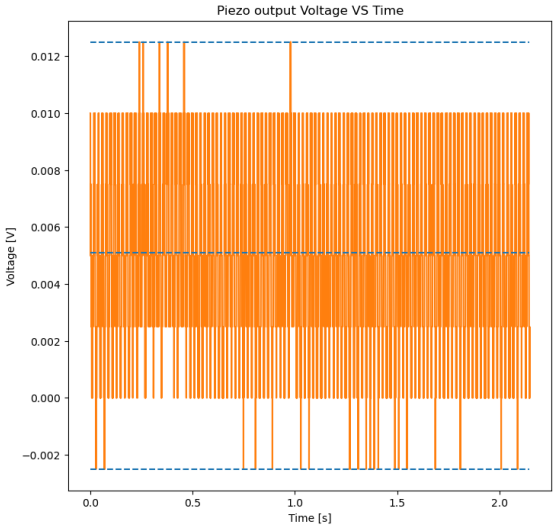
2 PRESSURE AND VOLTAGE MEASUREMENTS

`The input frequency is:  0.47 Hz`



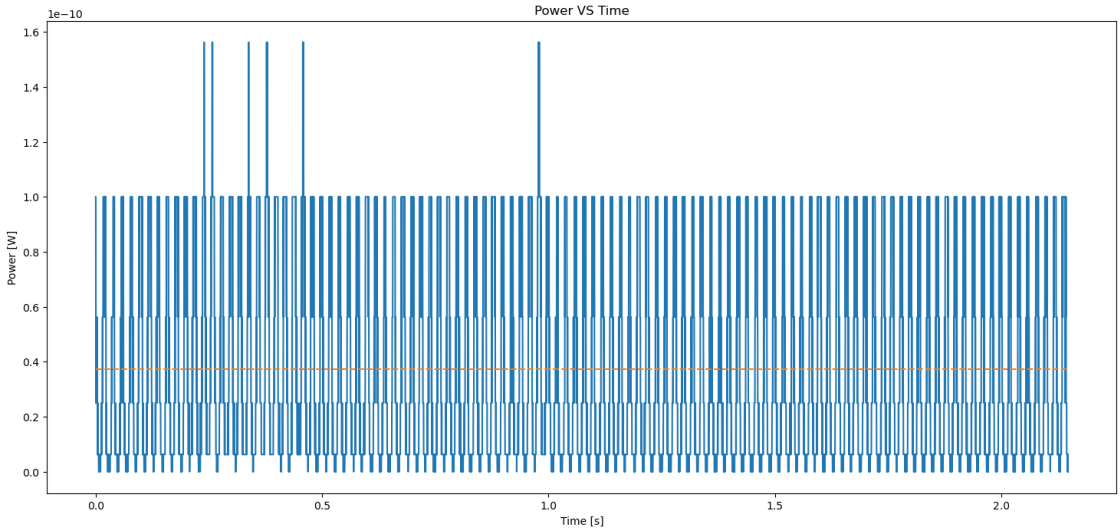






	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	6.39e+00	6.44e+00	5.25e-02	6.42e+00	6.42e+00
1	Voltage [V]	-2.50e-03	1.25e-02	1.50e-02	5.11e-03	5.12e-03

3 POWER

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Mean power: 3.74e-11 [W]
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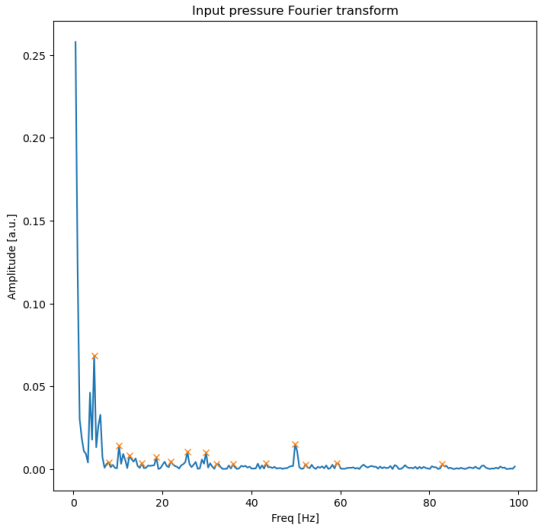
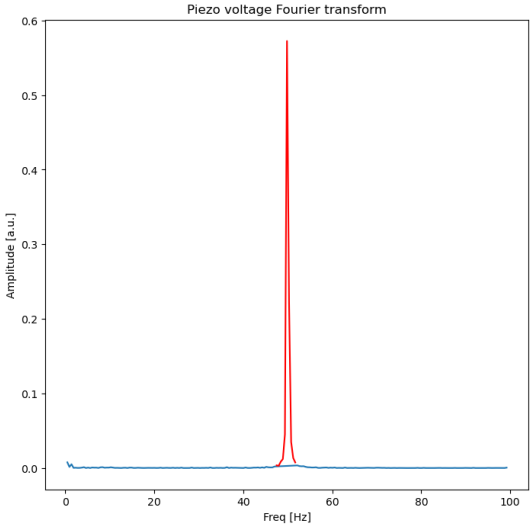
4 FREQUENCY ANALYSIS

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





4.1 Voltage frequency peaks

Empty DataFrame Columns: Index(['Freq [Hz]', 'Amplitude percentage'], dtype='object') Index: RangeIndex(st

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	4.66	6.83
1	7.92	0.41
2	10.25	1.41
3	12.57	0.81
4	15.37	0.36
5	18.63	0.71
6	21.89	0.46
7	25.61	1.03
8	29.80	0.99
9	32.13	0.30
10	35.86	0.29
11	43.31	0.34
12	49.83	1.50
13	52.16	0.28
14	59.14	0.34
15	82.89	0.29