Measurements

April 22, 2022

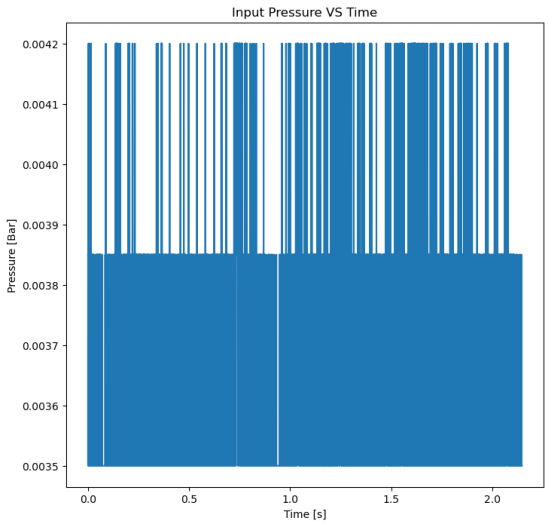
1 PARAMETERS

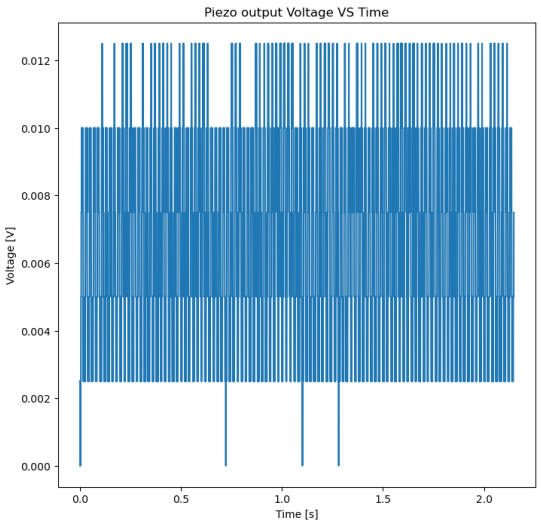
`Sample name: ES.PVDV.E0.0m.100nm`

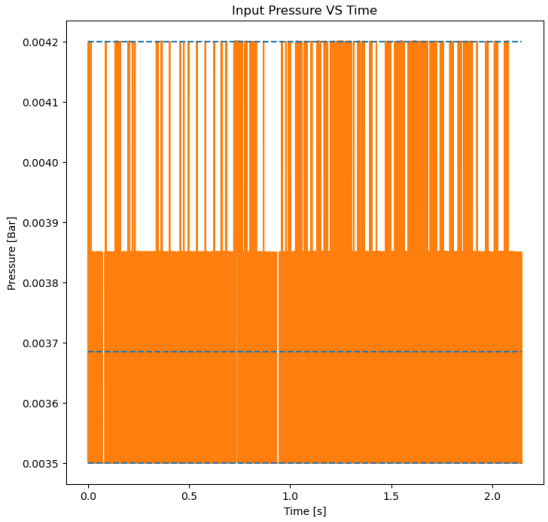
	Parameter	Value	Unit
0	Sample name	ES.PVDV.E0.0m.100nm	
1	Measure duration	2.147483648	[s]
2	Rload	1000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	100.0	[Hz]

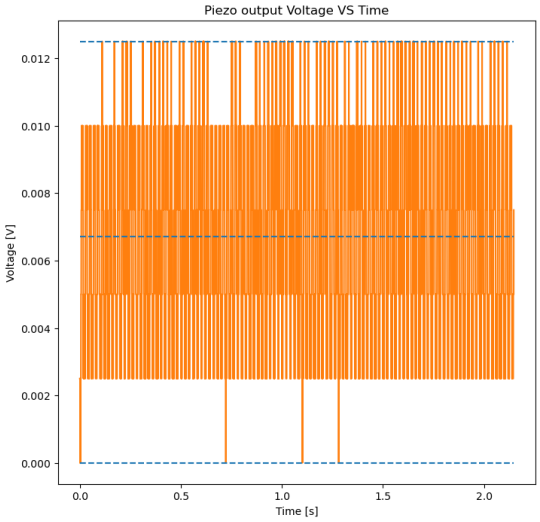
2 PRESSURE AND VOLTAGE MEASUREMENTS

`The input frequency is:  0.47 Hz`



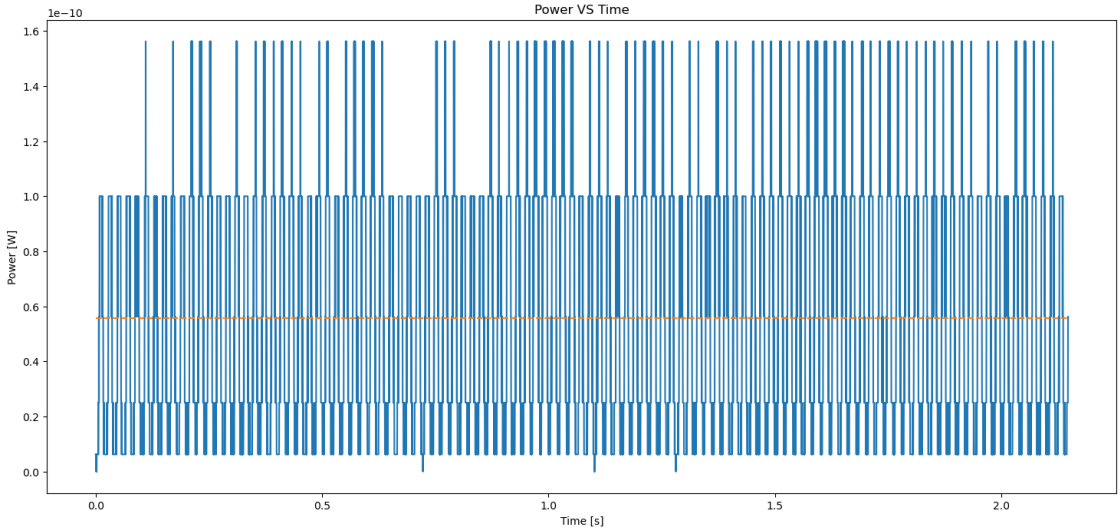






	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	3.50e-03	4.20e-03	7.00e-04	3.69e-03	3.69e-03
1	Voltage [V]	0.00e+00	1.25e-02	1.25e-02	6.72e-03	6.72e-03

3 POWER

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Mean power: 5.56e-11 [W]
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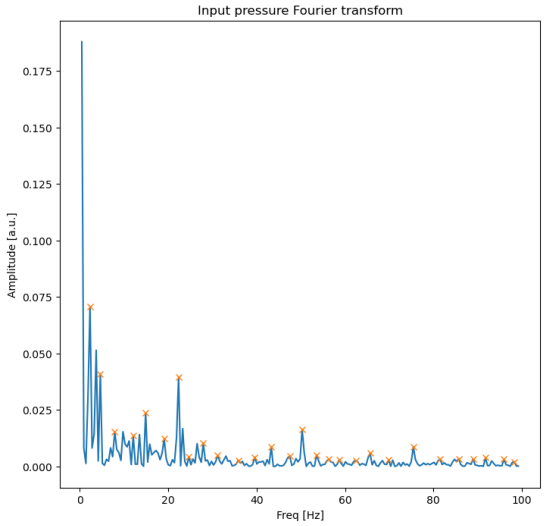
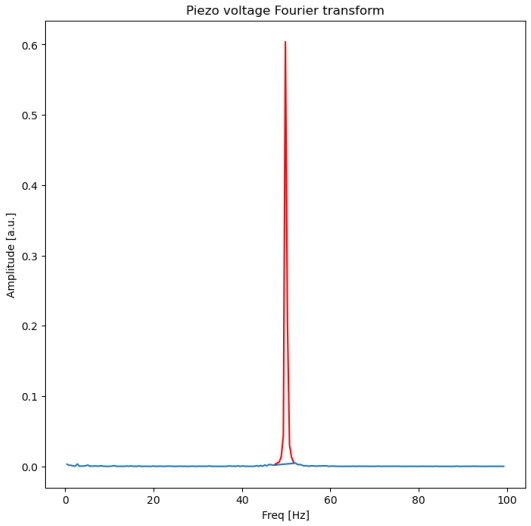
4 FREQUENCY ANALYSIS

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	2.33	7.08
1	4.66	4.10
2	7.92	1.54
3	12.11	1.37
4	14.90	2.37
5	19.09	1.23
6	22.35	3.96
7	24.68	0.43
8	27.94	1.02
9	31.20	0.50
10	35.86	0.27
11	39.58	0.41
12	43.31	0.87
13	47.50	0.45
14	50.29	1.63
15	53.55	0.51
16	56.35	0.31
17	58.68	0.30
18	62.40	0.26
19	65.66	0.58
20	69.85	0.28
21	75.44	0.87
22	81.50	0.32
23	85.69	0.33
24	88.95	0.33
25	91.74	0.38
26	95.93	0.32
27	98.26	0.21