Measurements

April 22, 2022

1 PARAMETERS
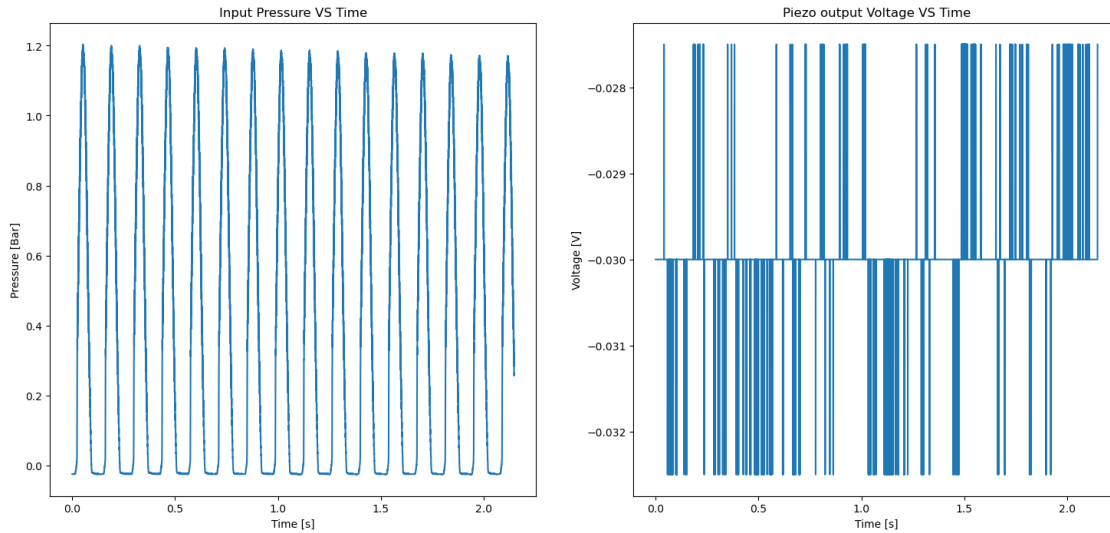
`Sample name: ES.PVDV.E9.45m.100nm`
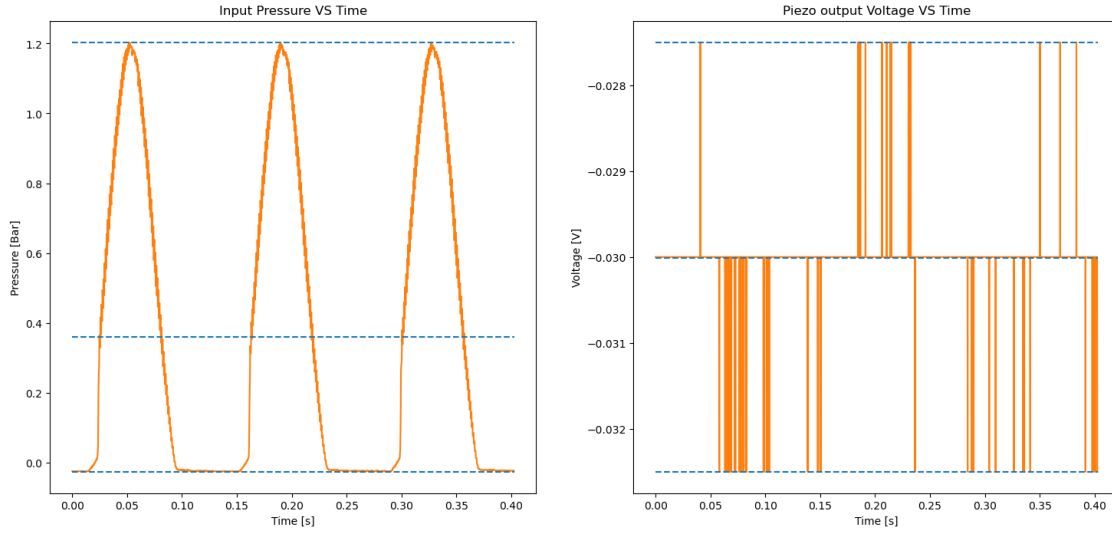
	Parameter	Value	Unit
0	Sample name	ES.PVDV.E9.45m.100nm	
1	Measure duration	2.147483648	[s]
2	Rload	1000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	100.0	[Hz]

2 PRESSURE AND VOLTAGE MEASUREMENTS

```
[-0.03   -0.03   -0.03   … -0.03   -0.03   -0.0275]
The input frequency is:  7.45 Hz
```

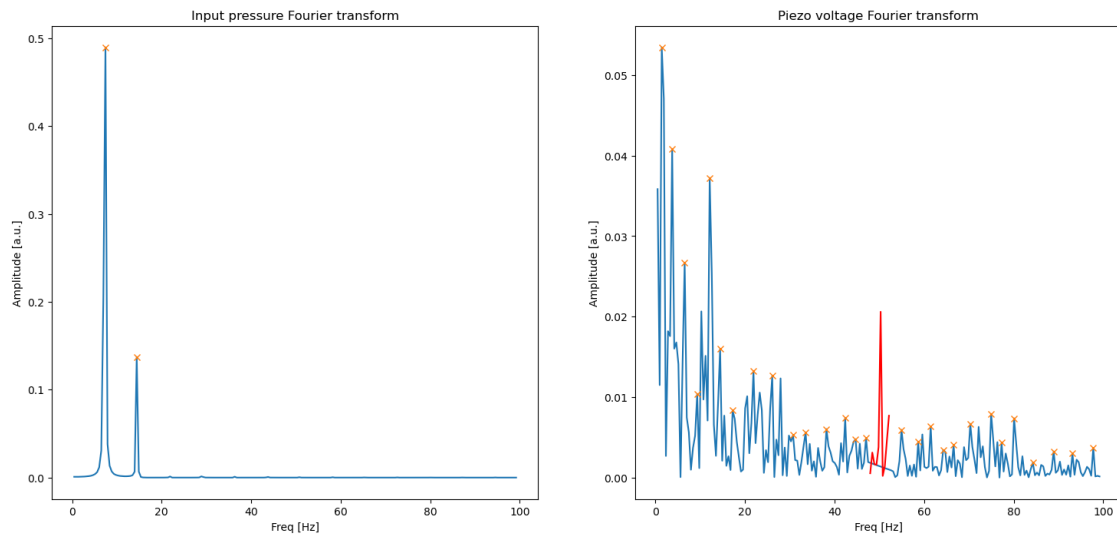|	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-2.62e-02	1.20e+00	1.23e+00	3.59e-01	3.80e-01
1	Voltage [V]	-3.25e-02	-2.75e-02	5.00e-03	-3.00e-02	3.00e-02

3 POWER
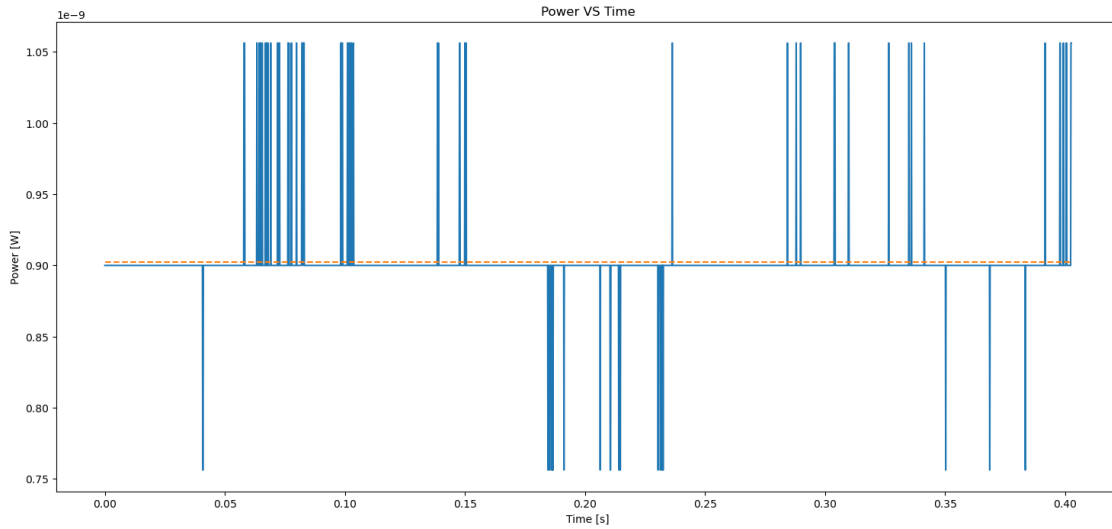

```
Mean power: 9.02e-10 [W]
```

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	1.40	5.35
1	3.73	4.08
2	6.52	2.67
3	9.31	1.04
4	12.11	3.72
5	14.44	1.60
6	17.23	0.83
7	21.89	1.32
8	26.08	1.26
9	30.74	0.53
10	33.53	0.56
11	38.19	0.60
12	42.38	0.74
13	44.71	0.48
14	47.03	0.49
15	54.95	0.59
16	58.68	0.44
17	61.47	0.64
18	64.27	0.34
19	66.59	0.40
20	70.32	0.67
21	74.98	0.79
22	77.30	0.44
23	80.10	0.74
24	84.29	0.18
25	88.95	0.32
26	93.14	0.30
27	97.79	0.37

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	7.45	48.96
1	14.44	13.72