Measurements

March 18, 2022
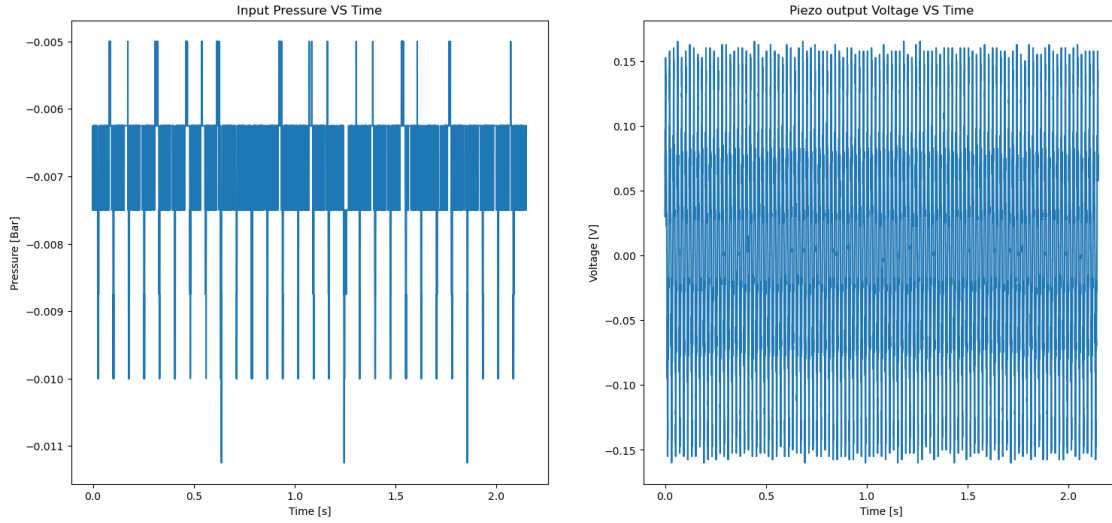
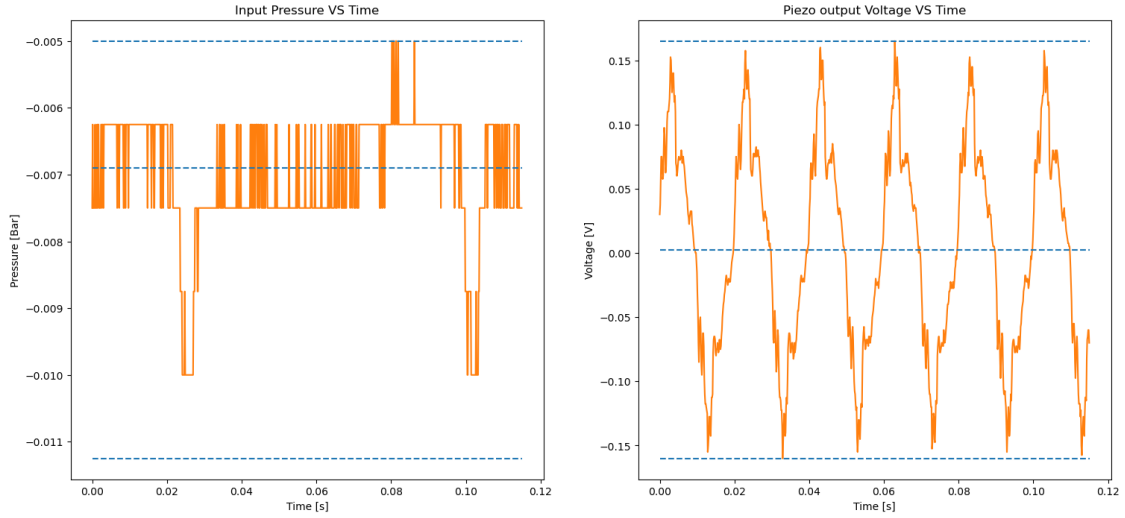# 1 PARAMETERS

Sample name: ES.PVDF.E0.0m.100nm

	Parameter	Value	Unit
0	Sample name	ES.PVDF.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: 26.08 Hz

Input Pressure VS Time — Piezo output Voltage VS Time

	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-1.12e-02	-5.00e-03	6.25e-03	-6.90e-03	6.90e-03
1	Voltage [V]	-1.60e-01	1.65e-01	3.25e-01	2.20e-03	6.79e-02

3 POWER

Power VS Time
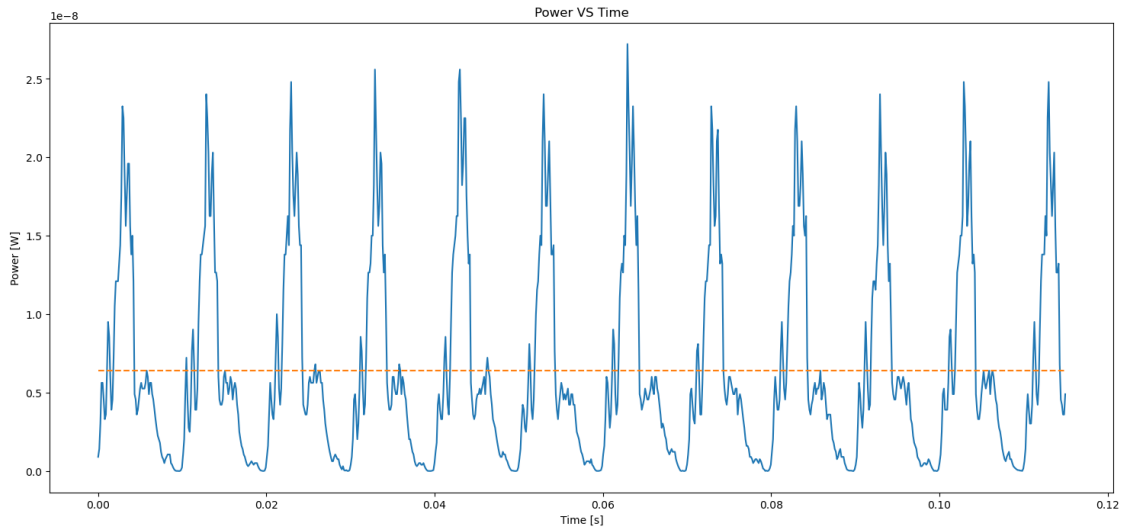
Mean power: 6.40e-09 [W]

4 FREQUENCY ANALYSIS
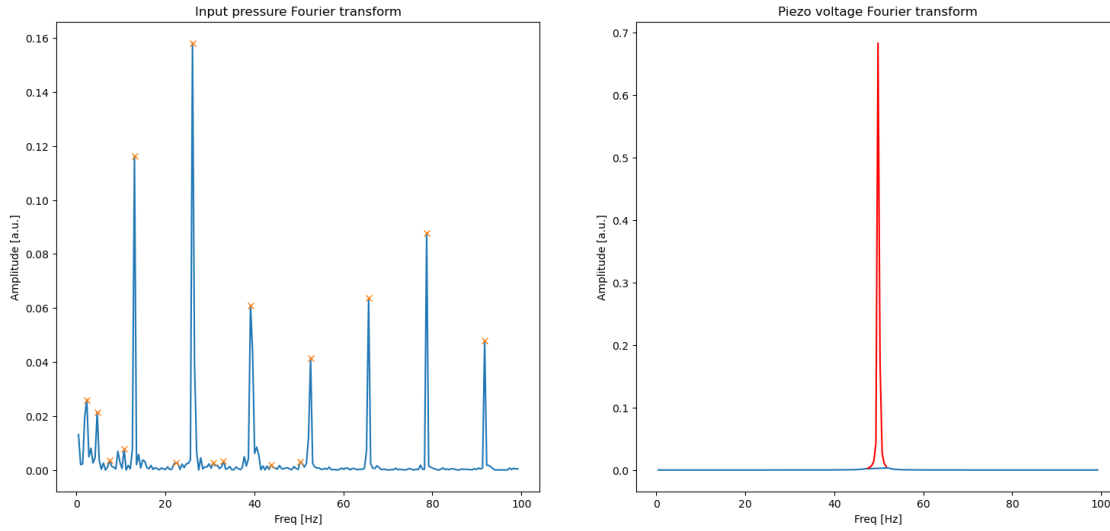
4.1 Voltage frequency peaks

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	2.60
1	4.66	2.14
2	7.45	0.36
3	10.71	0.78
4	13.04	11.63
5	22.35	0.28
6	26.08	15.81
7	30.74	0.27
8	33.06	0.33
9	39.12	6.10
10	43.77	0.20
11	50.29	0.31
12	52.62	4.14
13	65.66	6.36
14	78.70	8.78
15	91.74	4.80