### Measurements

March 16, 2022

#### 1 PARAMETERS

```
HBox(children=(Label(value='Sample name :'), Text(value='test', placeholder='Custom Name')))

HBox(children=(Label(value='Measure duration [s] :'), parameter(value=3.0, placeholder=True, step=0.1)))

HBox(children=(Label(value='Load resistance [Ohms] :'), parameter(value=300000. placeholder=True, step...)

HBox(children=(Label(value='Nombre of periods [1] :'), parameter(value=5.0, placeholder=True, step=1.0))...

HBox(children=(Label(value='Gircuit resistance [Ohms] :'), parameter(value=1.0, placeholder=True, step=1...)

HBox(children=(Label(value='Maximum frequency for analysis: [Hz] :'), placeholder=True, step=1...

HBox(children=(Label(value='Maximum frequency for analysis: [Hz] :'), placeholder=True, step=1...

Button(description='Save parameters', style=ButtonStyle())

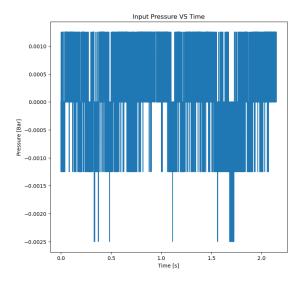
Output()
```

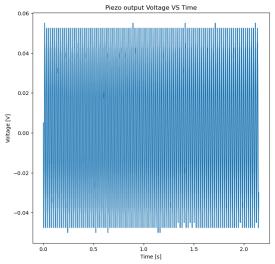
Sample name: test

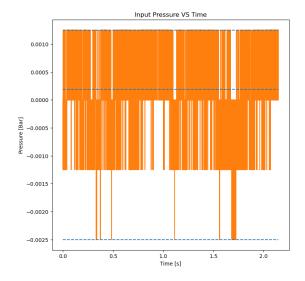
	Parameter	Value	Unit
0	Sample name	test	
1	Measure duration	3.0	[s]
2	Rload	300000.0	[Ohms]
3	Nb Periods	5.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	100.0	[Hz]

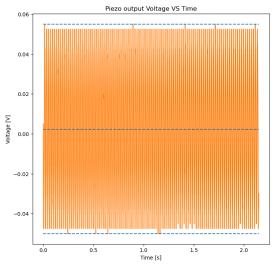
#### 2 PRESSURE AND VOLTAGE MEASUREMENTS

The input frequency is: 0.93 Hz



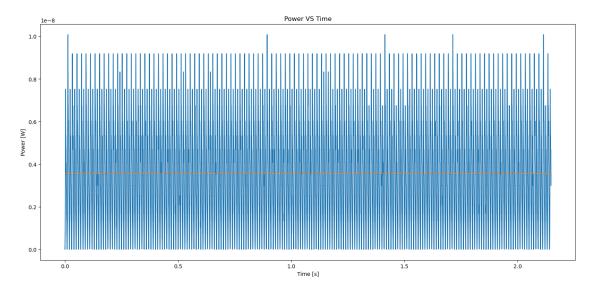






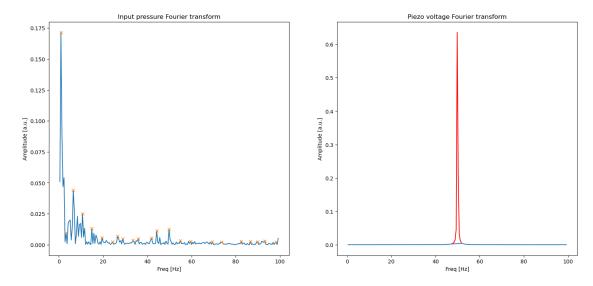
	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-2.50e-03	1.25 e-03	3.75 e-03	1.93e-04	5.06e-04
1	Voltage [V]	-5.00e-02	5.50e-02	1.05e-01	2.23e-03	2.96e-02

## 3 POWER



Mean power: 3.56e-09 [W]

# 4 FREQUENCY ANALYSIS



## 4.1 Voltage frequency peaks

Empty DataFrame Columns: Index(['Freq [Hz]', 'Amplitude percentage'], dtype='object') Index: RangeIndex(state of the columns) Index (state of the columns) Index

# 4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	0.93	17.15
1	3.26	0.95
2	6.52	4.40
3	10.71	2.51
4	14.90	1.32
5	19.56	0.57
6	24.22	0.24
7	26.54	0.68
8	28.87	0.48
9	33.53	0.35
10	35.86	0.49
11	41.91	0.54
12	44.24	1.12
13	49.83	1.25
14	54.95	0.31
15	59.61	0.28
16	69.39	0.23
17	73.58	0.21
18	82.43	0.28
19	86.62	0.26
20	89.88	0.24
21	93.14	0.30
22	98.26	0.19