# Drops of LTSpice

## Plotting the MEASURE results

As we saw previously, .MEASURE allows you to take measurements and present them in a very convenient LOG.

SPICE Error Log: C:\Users\Desktop\Francesco\LTSpice_Studies\Drops of LTSpice\Drops of LTSpice - ...

```
Measurement: pout
  step             RMS(i(r1)*v(vout))  FROM                 TO
     1             11.4759             0                    0.5
     2             5.76431             0                    0.5
     3             3.84946             0                    0.5
     4             2.88978             0                    0.5
     5             2.31321             0                    0.5
     6             1.92849             0                    0.5
     7             1.65313             0                    0.5
     8             1.44545             0                    0.5
     9             1.29043             0                    0.5
    10             1.1664              0                    0.5

Measurement: pin
  step             RMS(-i(v1)*v(vin))  FROM                 TO
     1             20.5764             0                    0.5
     2             10.174              0                    0.5
     3             6.89148             0                    0.5
     4             5.26886             0                    0.5
     5             4.31823             0                    0.5
     6             3.7131              0                    0.5
     7             3.29653             0                    0.5
     8             2.99307             0                    0.5
     9             2.76311             0                    0.5
    10             2.57531             0                    0.5

Measurement: eff
  step             pout/pin
     1             0.557721
```

# But I'm sure you tried to copy this data and paste it into EXCEL to create charts, am I right?

```
Measurement: pin
   step             RMS(-i(v1)*v(vin))  FROM             TO
        1           20.5764             0                0.5
        2           10.174              0                0.5
        3           6.89148             0                0
        4           5.26886             0                0
        5           4.31823             0                0
        6           3.7131              0                0
        7           3.29653             0                0
        8           2.99307             0                0
        9           2.76311             0                0
       10           2.57531             0                0

Measurement: eff
```

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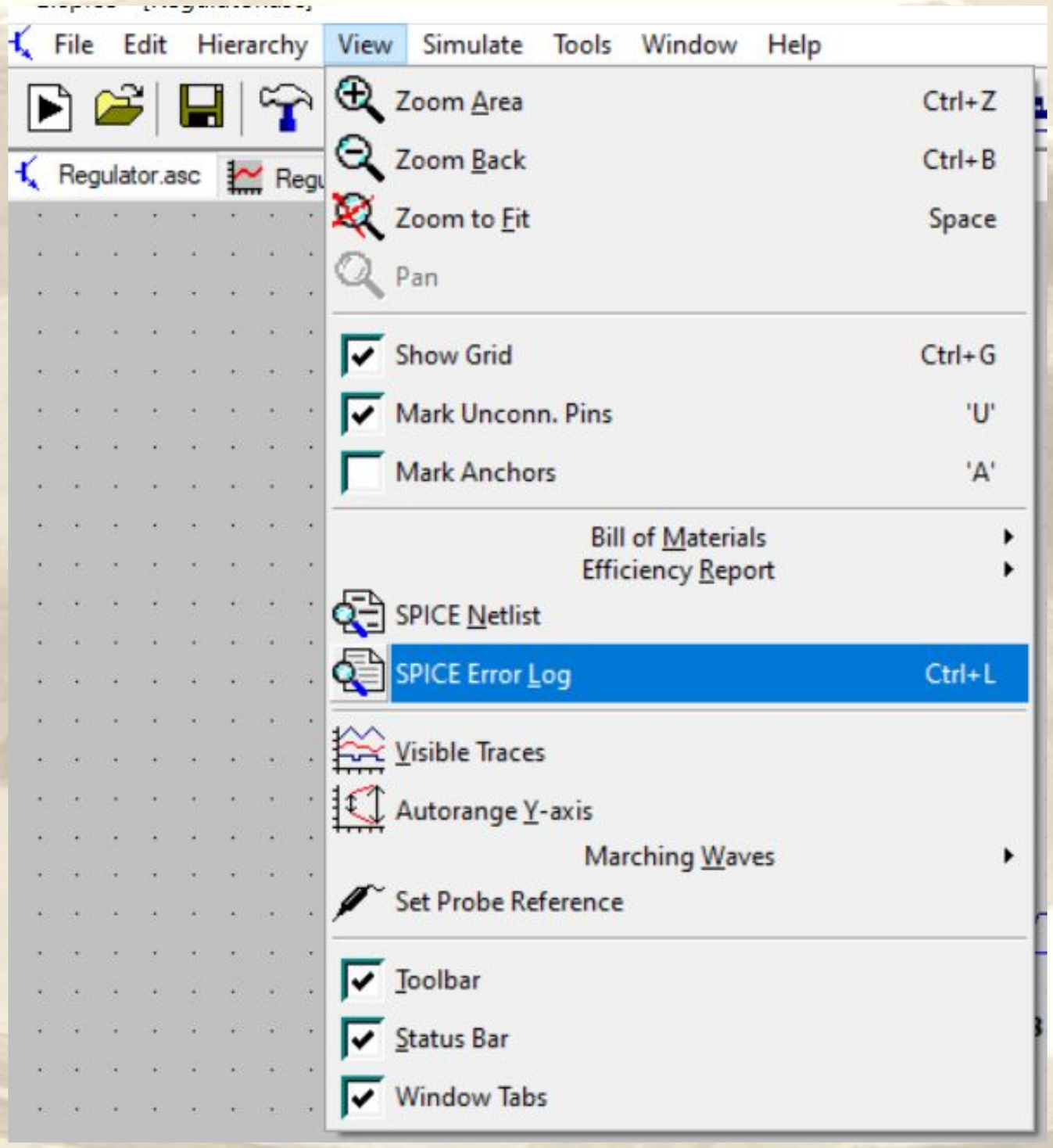
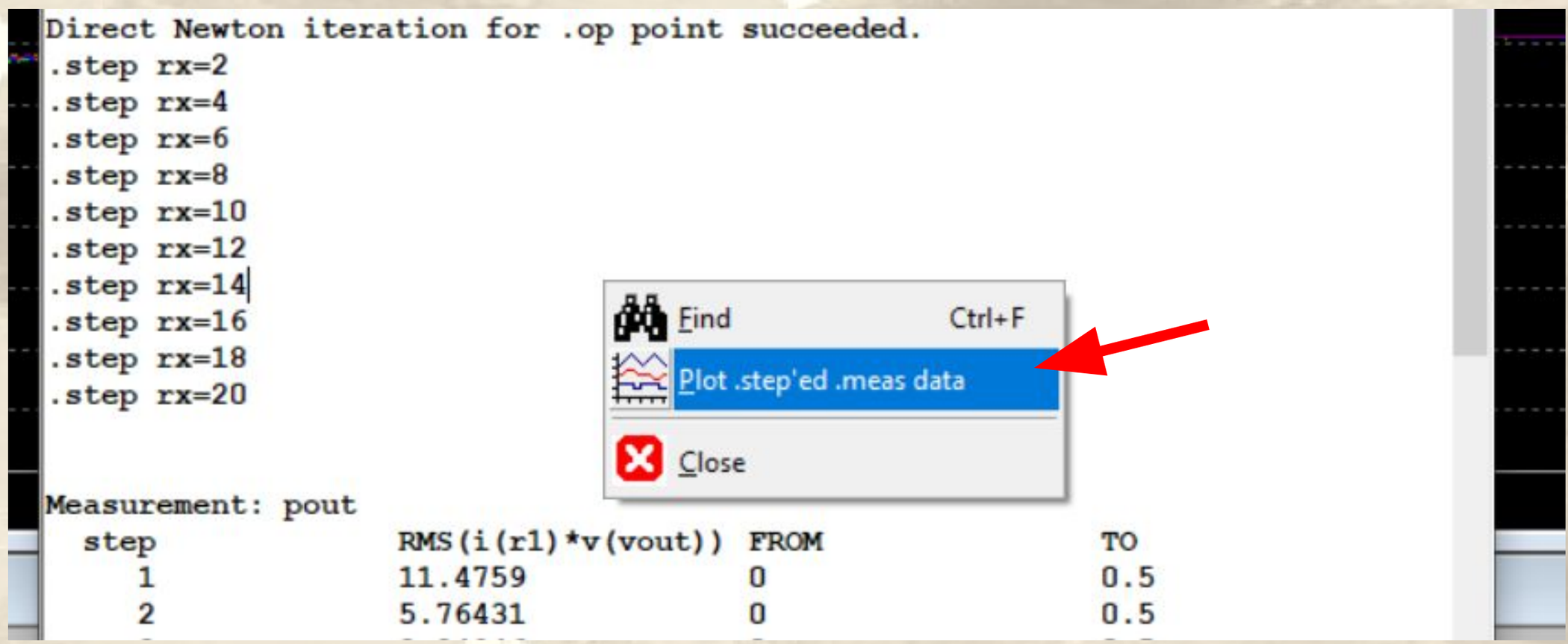
| | A | B | C | D | E |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | step | RMS(-i(v1) | FROM | TO |
| 3 | | 1 | 20.5764 | 0 | 0.5 |
| 4 | | 2 | 10.174 | 0 | 0.5 |
| 5 | | 3 | 6.89148 | 0 | 0.5 |
| 6 | | 4 | 5.26886 | 0 | 0.5 |
| 7 | | 5 | 4.31823 | 0 | 0.5 |
| 8 | | 6 | 3.7131 | 0 | 0.5 |
| 9 | | 7 | 3.29653 | 0 | 0.5 |
| 10 | | 8 | 2.99307 | 0 | 0.5 |
| 11 | | 9 | 2.76311 | 0 | 0.5 |
| 12 | | 10 | 2.57531 | 0 | 0.5 |

# Calm down, there is a better way to do this!

# Once your simulation is ready, you open the SPICE Error Log to see the result.

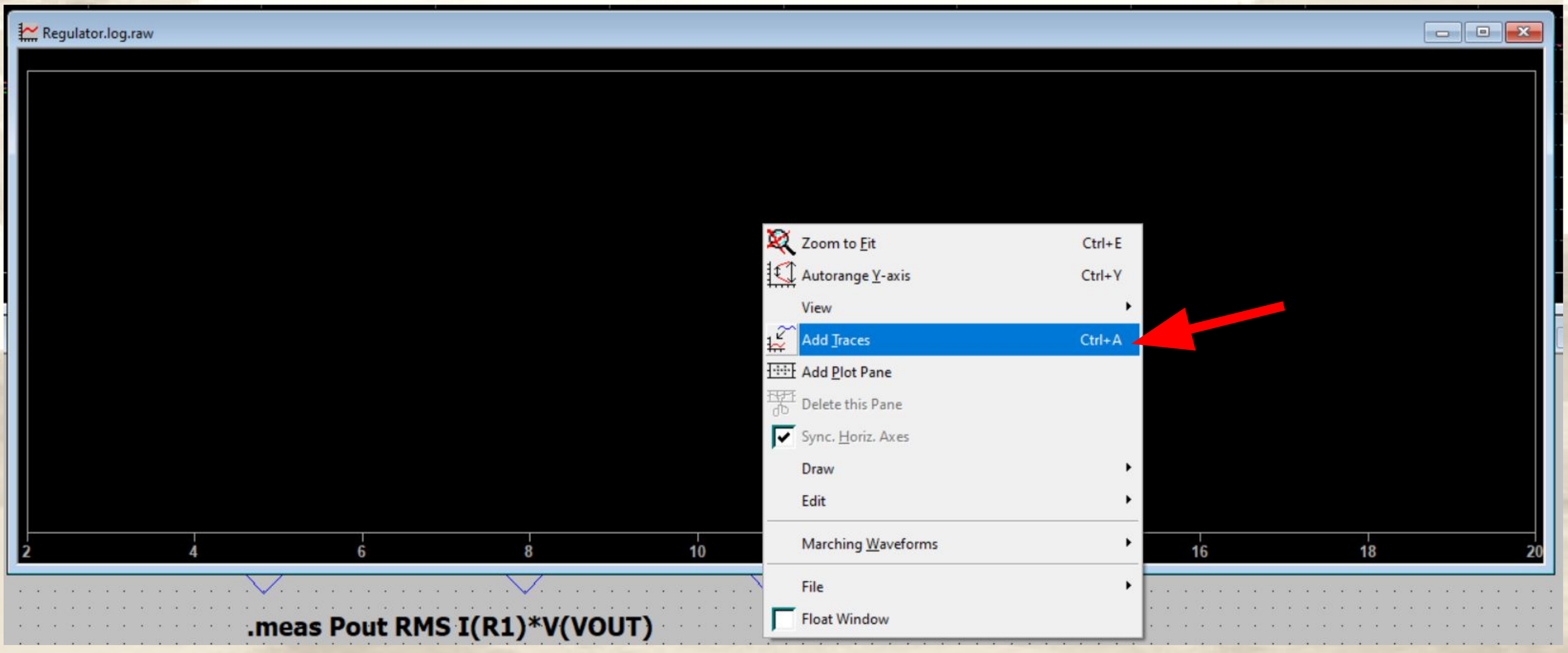


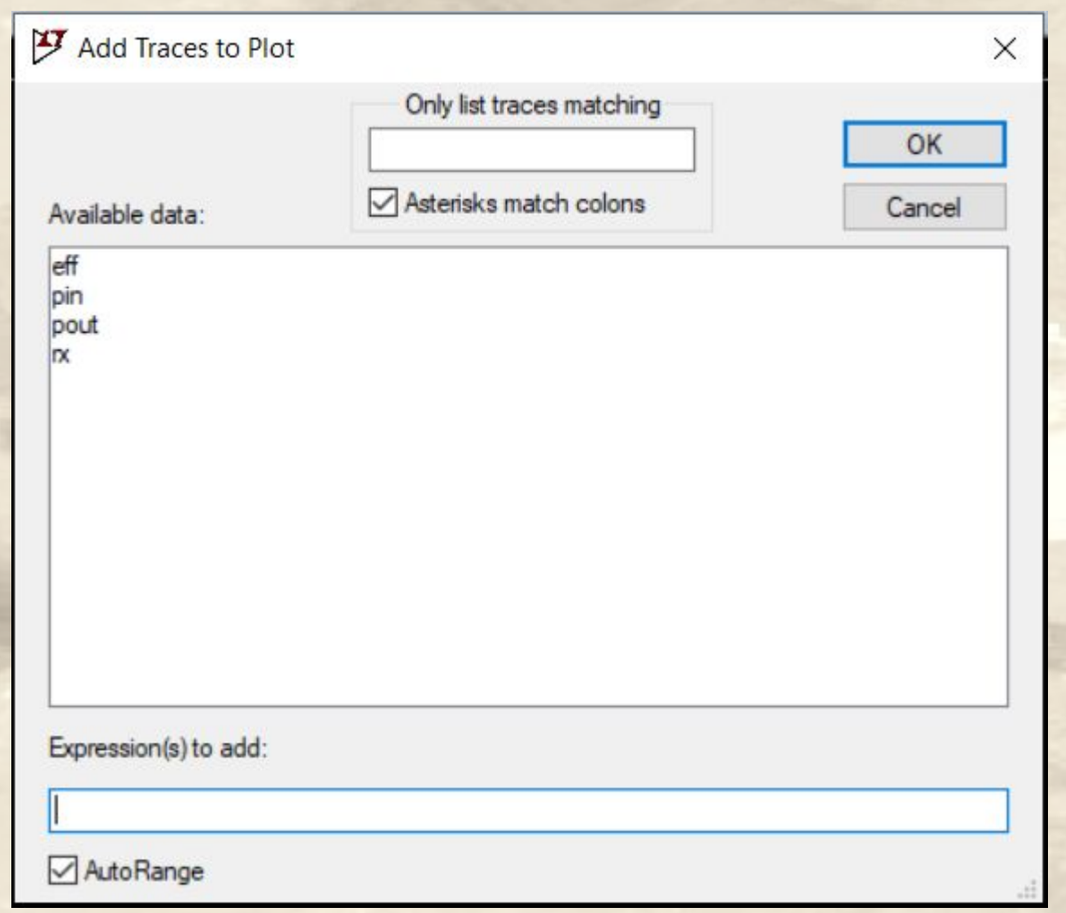
# Right-click on the SPICE Error Log and select Plot .step'ed .meas data option.




# A new window will open.

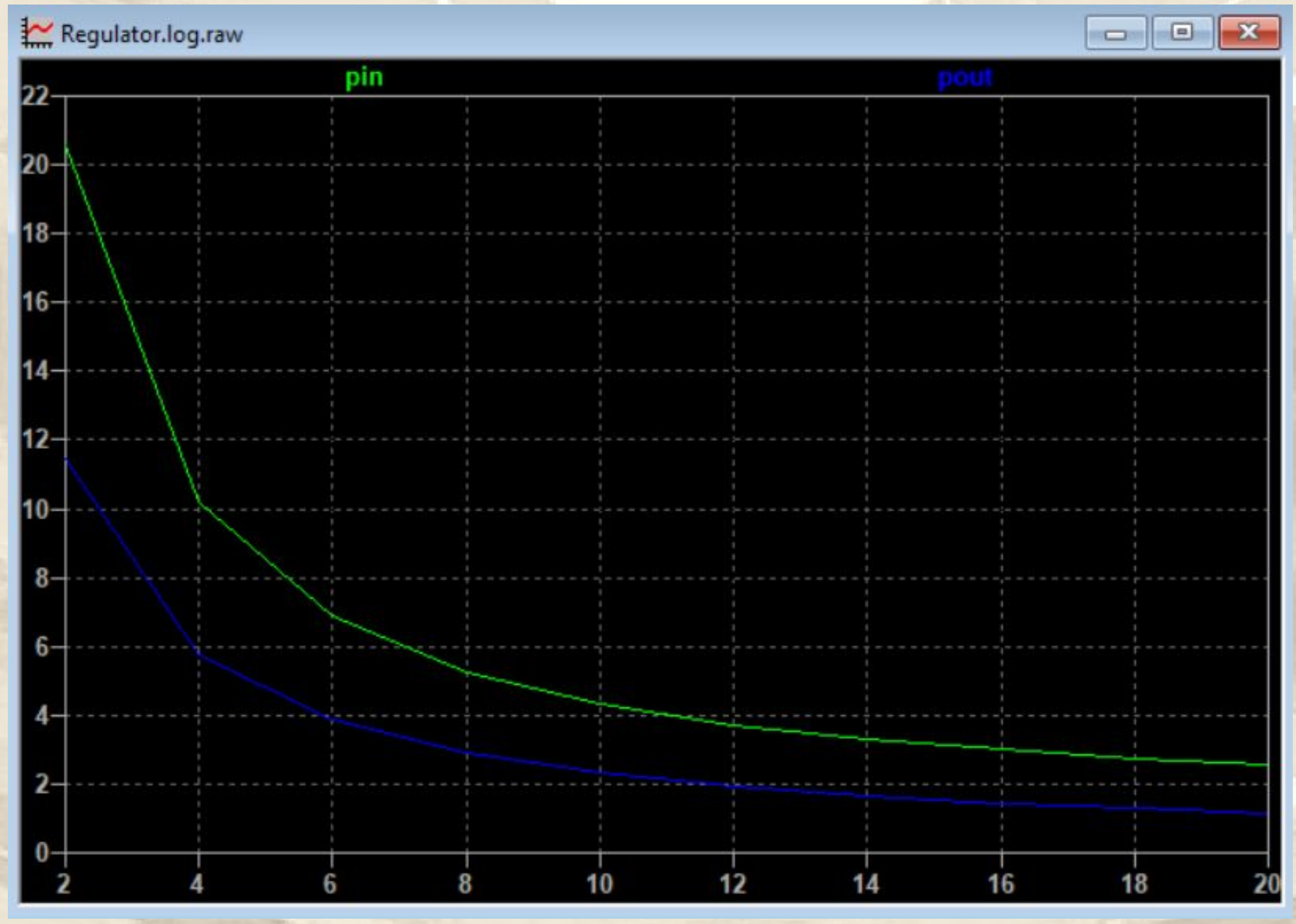
# Right-click on it and select the Add Traces option.



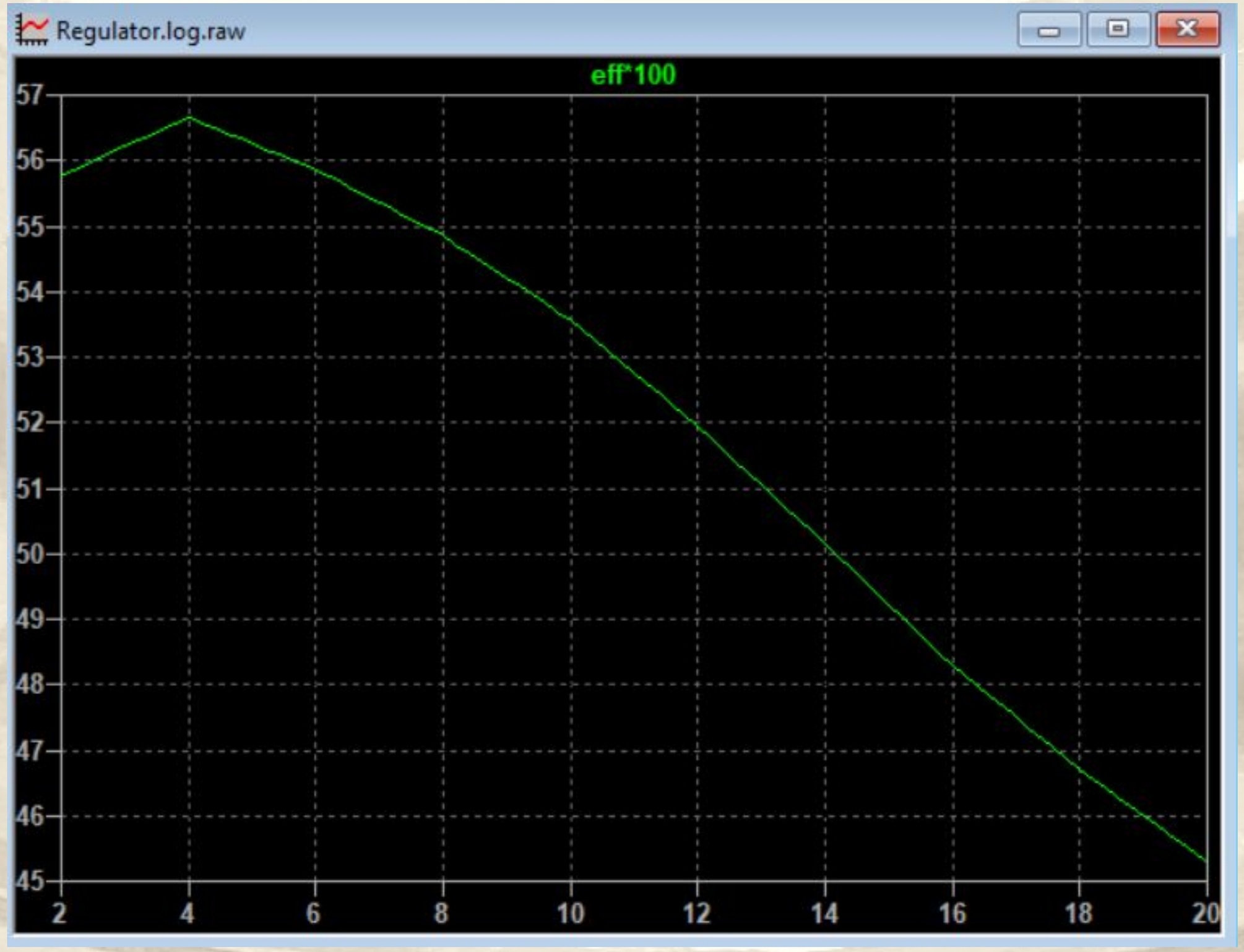




Measurements taken with .MEAS will appear.

# Here I have the input and output power, where the X axis is the RX load made with .STEP



# And here, I have a graph of efficiency in percentage.

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