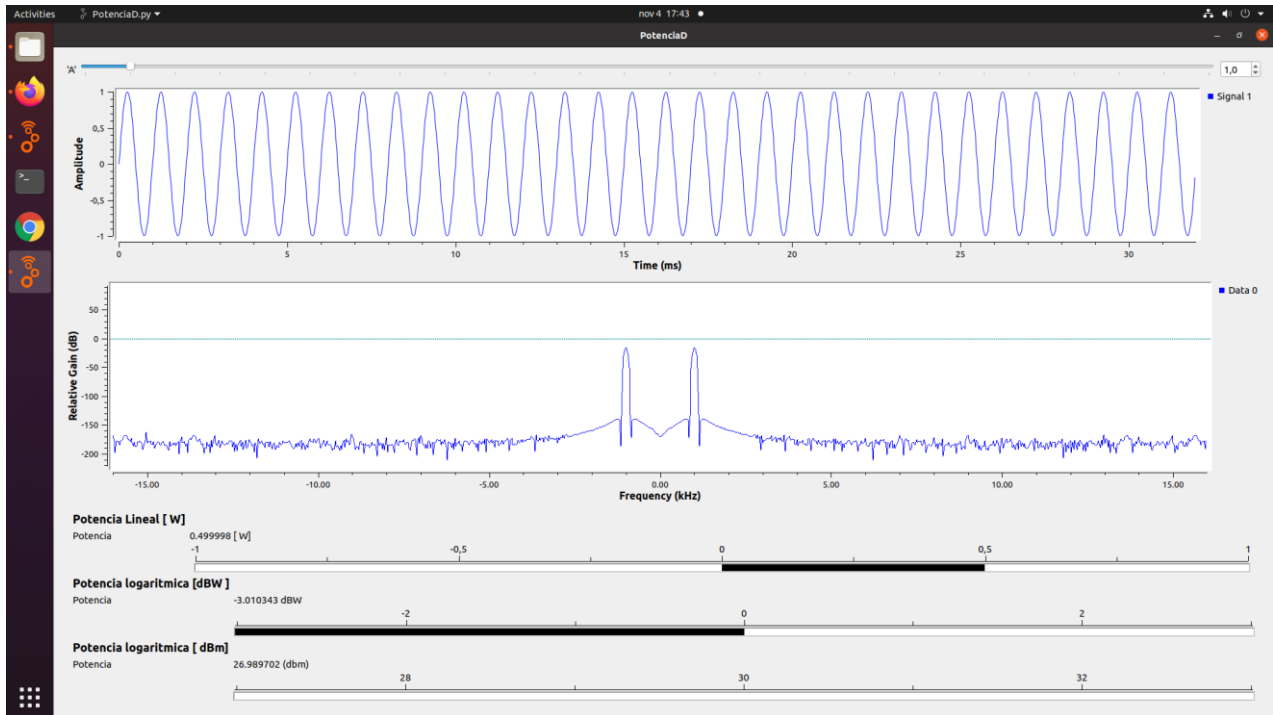
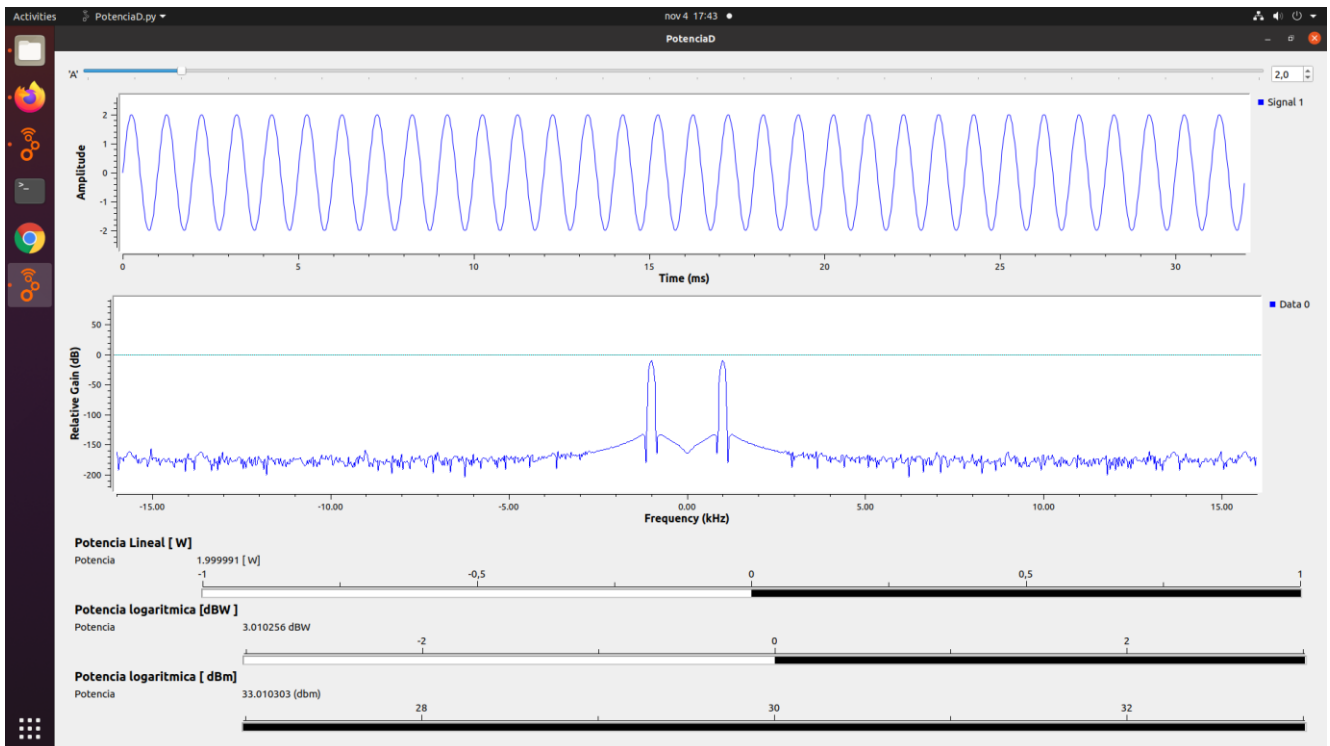


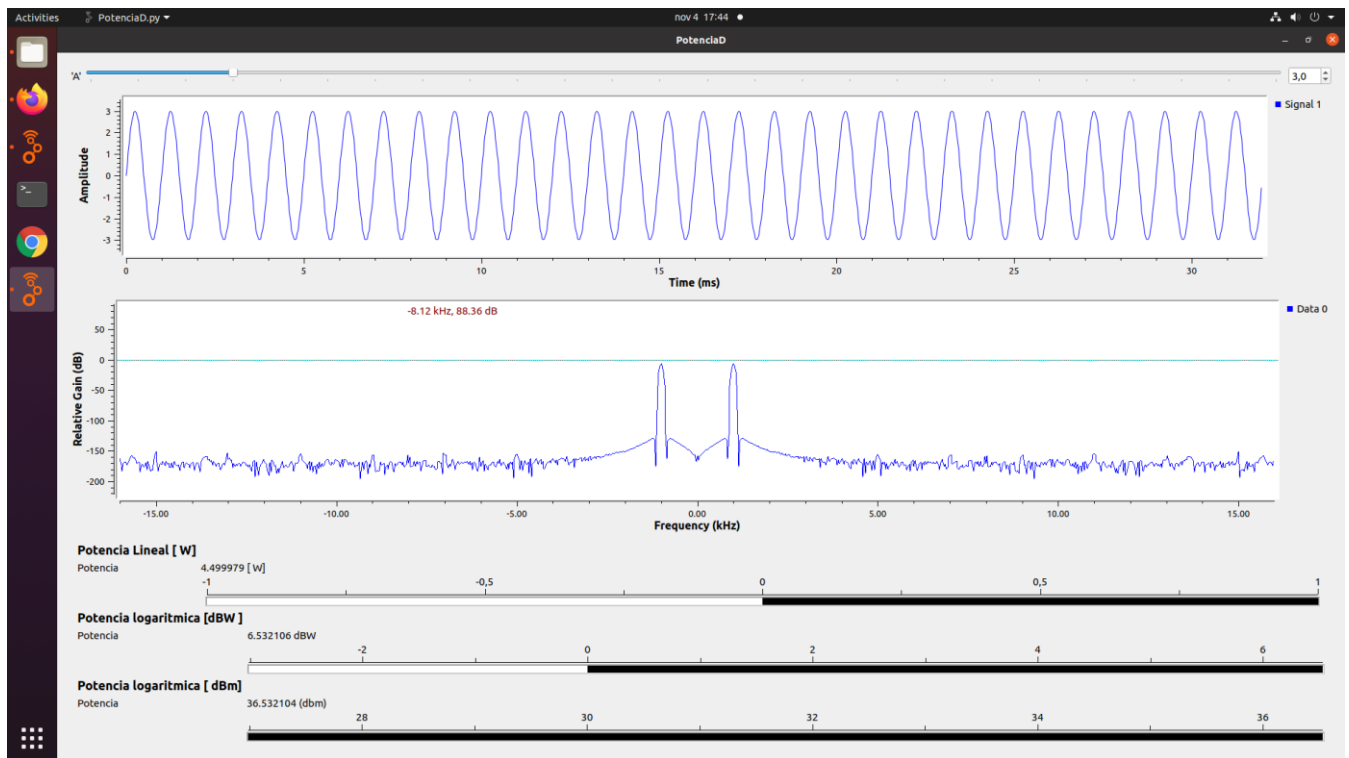
1)Potencia del sen(wot) para varias amplitudes:



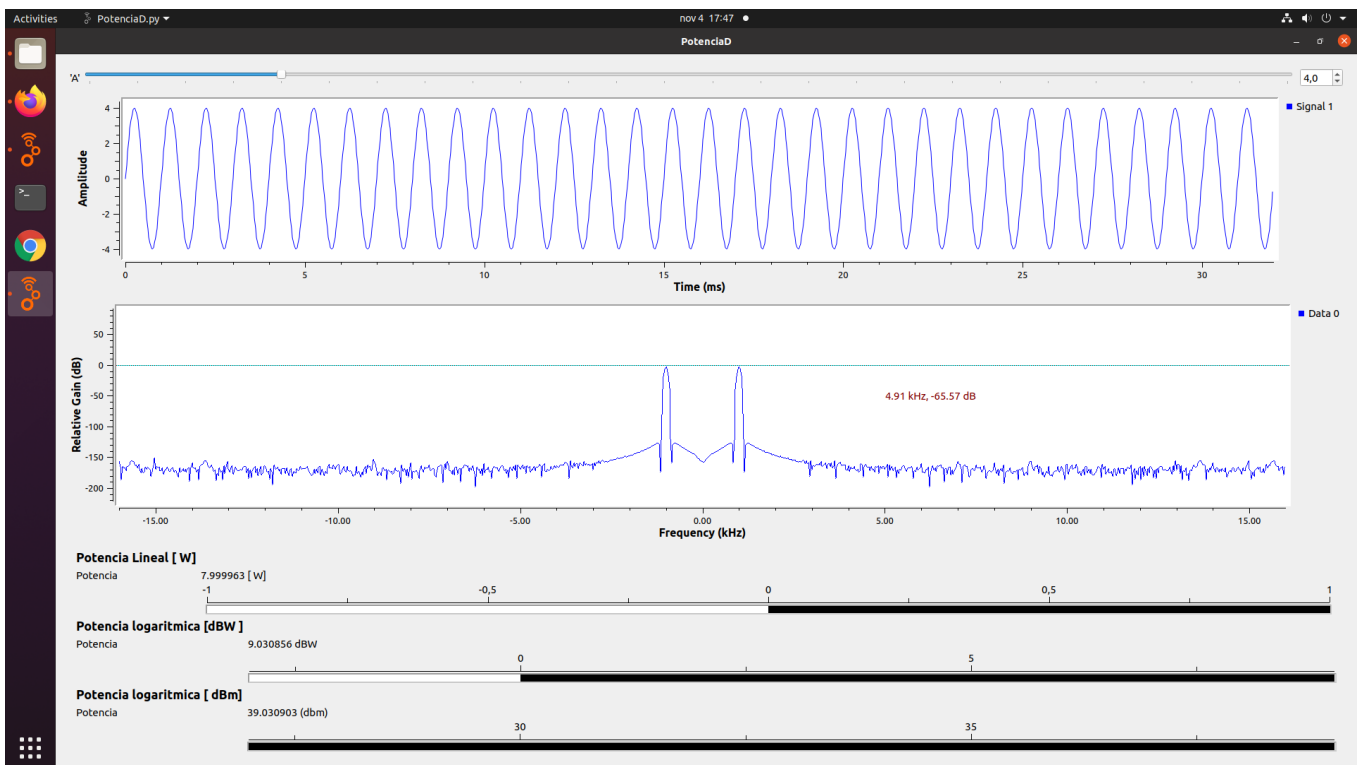
$$P = 1000 * \int_0^{1000} |Sen(2000\pi t)|^2 dt = \frac{1}{2} [W]$$



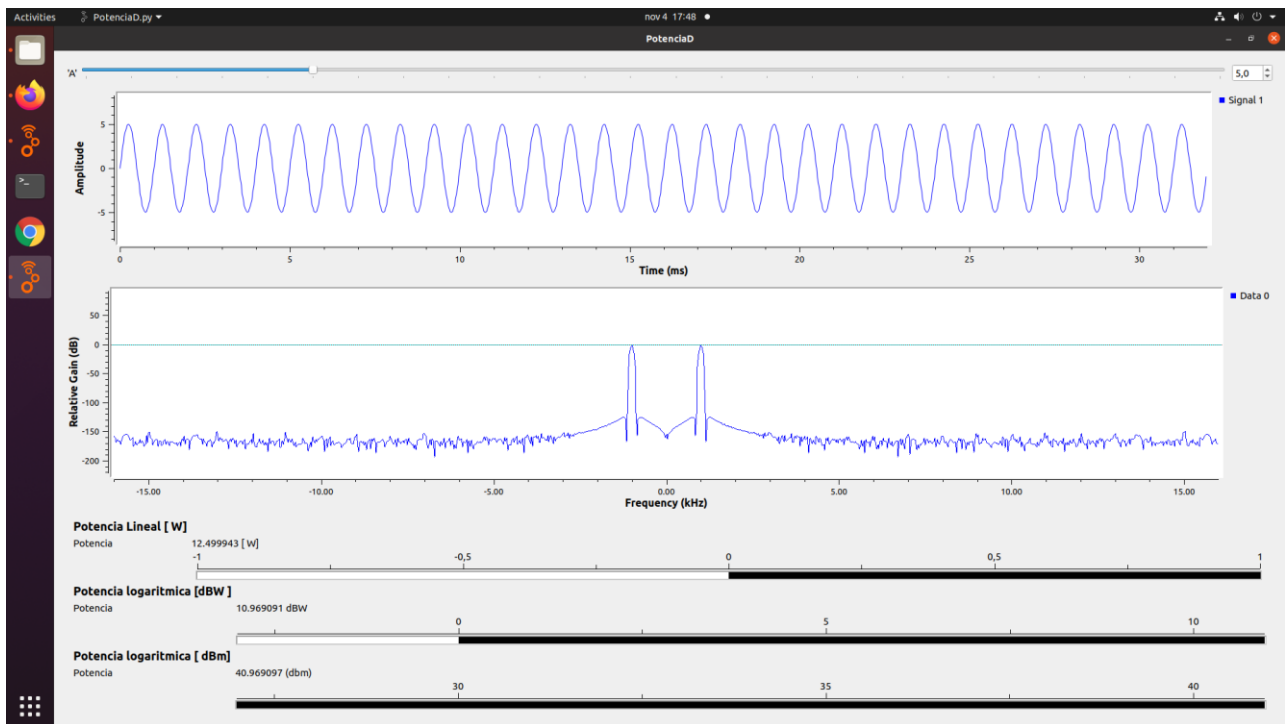
$$P = 1000 * \int_0^{1000} |2 * Sen(2000\pi t)|^2 dt = 2 [W]$$



$$P = 1000 * \int_0^{1000} |3 * \text{Sen}(2000\pi t)|^2 dt = 4.5[W]$$



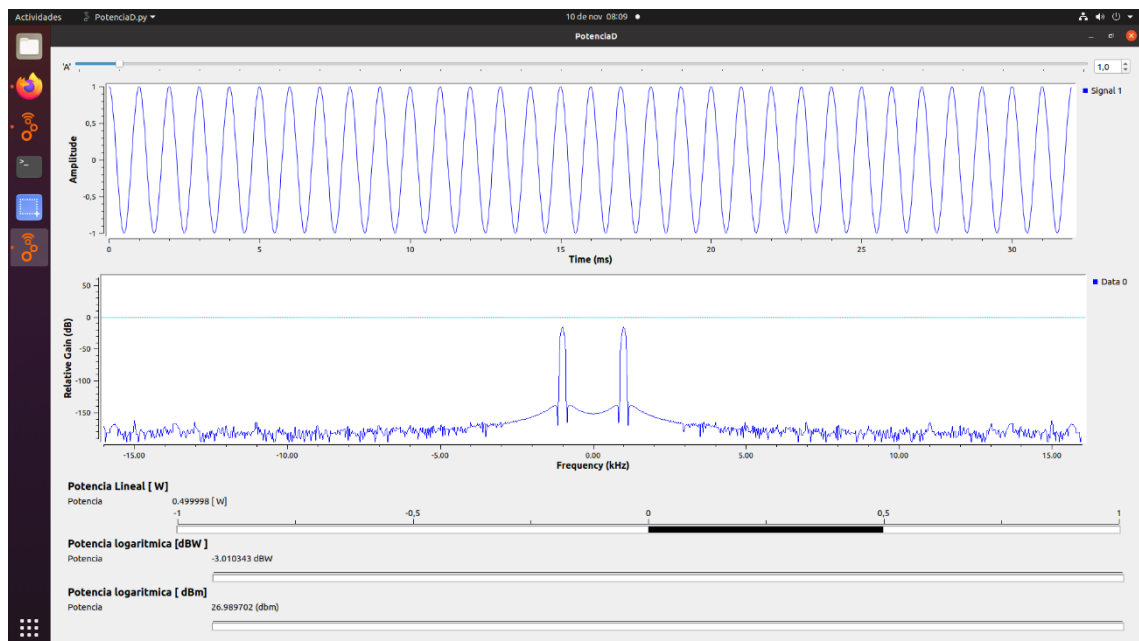
$$P = 1000 * \int_0^{1000} |4 * \text{Sen}(2000\pi t)|^2 dt = 8[W]$$



$$P = 1000 * \int_0^{1000} |5 * \text{Sen}(2000\pi t)|^2 dt = 12.5[W]$$

2)Potencias de diferentes señales

Cos(wot):

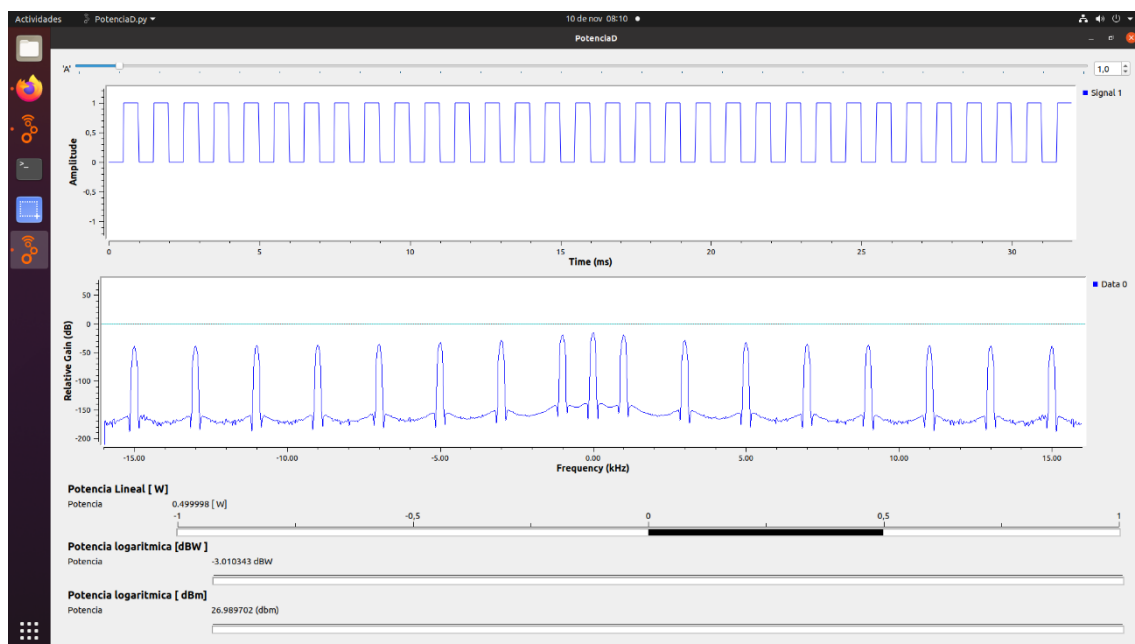


$$P = 1000 * \int_0^{\frac{1}{1000}} |1 * \cos(2000\pi t)|^2 dt = 0.5[W]$$

$$P = 1000 * \int_0^{\frac{1}{1000}} |2 * \cos(2000\pi t)|^2 dt = 2[W]$$

$$P = 1000 * \int_0^{\frac{1}{1000}} |3 * \cos(2000\pi t)|^2 dt = 4.5[W]$$

Onda cuadrada:

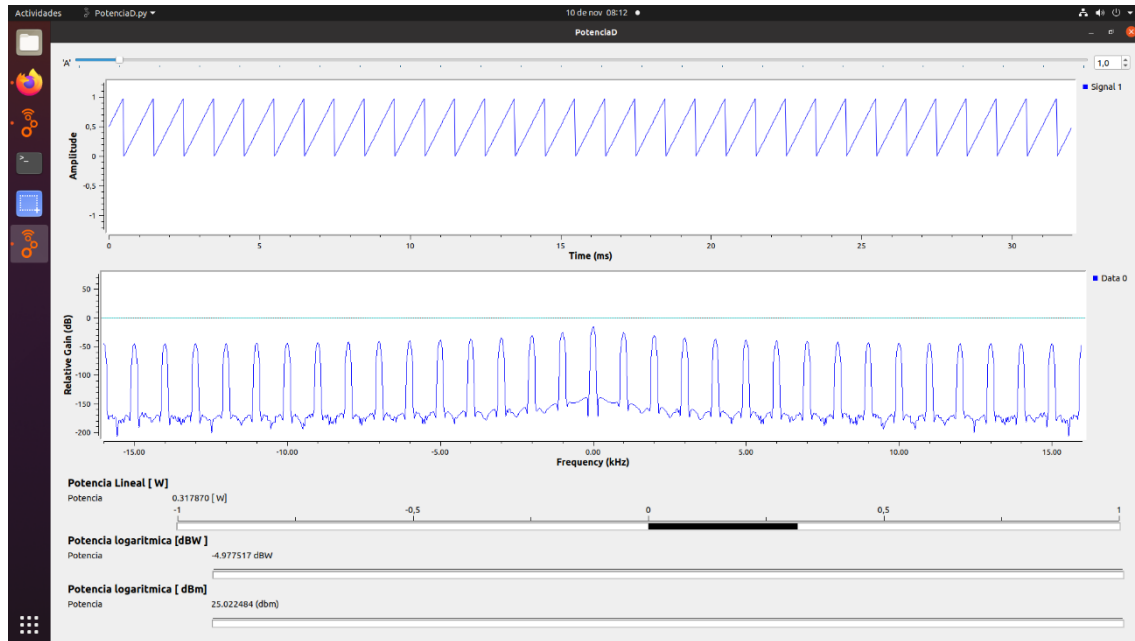


$$P = 1000 * \int_0^{\frac{1}{1000*2}} |1|^2 dt = 0.2[W]$$

$$P = 1000 * \int_0^{\frac{1}{1000*2}} |2|^2 dt = 2[W]$$

$$P = 1000 * \int_0^{\frac{1}{1000*2}} |3|^2 dt = 4.5[W]$$

Diente de sierra:



$$P = 1000 * \int_0^1 |1 * (1000)t|^2 dt = 0.33[W]$$

$$P = 1000 * \int_0^1 |2 * (1000)t|^2 dt = 1.33[W]$$

$$P = 1000 * \int_0^1 |3 * (1000)t|^2 dt = 3[W]$$