professional measurements by

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# TASCAM US122 USB audio device


## *Summary:*

External USB audio device with microphone preamplifier.



Quite noise is at almost –93dB(A) which is a respectable value. Phantom power decreases this performance by 13dB due to interference from the power converter.
THD+N is at –70dB only due to potential distortion from the input stage.
Sample rates are 44.1kHz and 48kHz.
Full duplex is supported, but not enhanced full duplex with different sample rates at the input and output.
ASIO claims to support 24 bit, but the driver supports 16 bit, only. We did not manage 24 bit transfers.
Driver installation is excellent, plug and play without restarts.

Measurements include

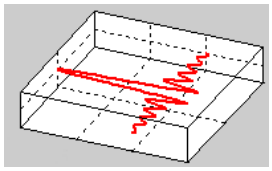
- quite noise
- THD+N
- enhanced full duplex check
- frequency response

## *Quite noise.*

Input is set to zero. Phantom power off.

### Results:

| | |
|---|---|
| -90.3 dB | with no weighting |
| -92.9 dB | A weighting |



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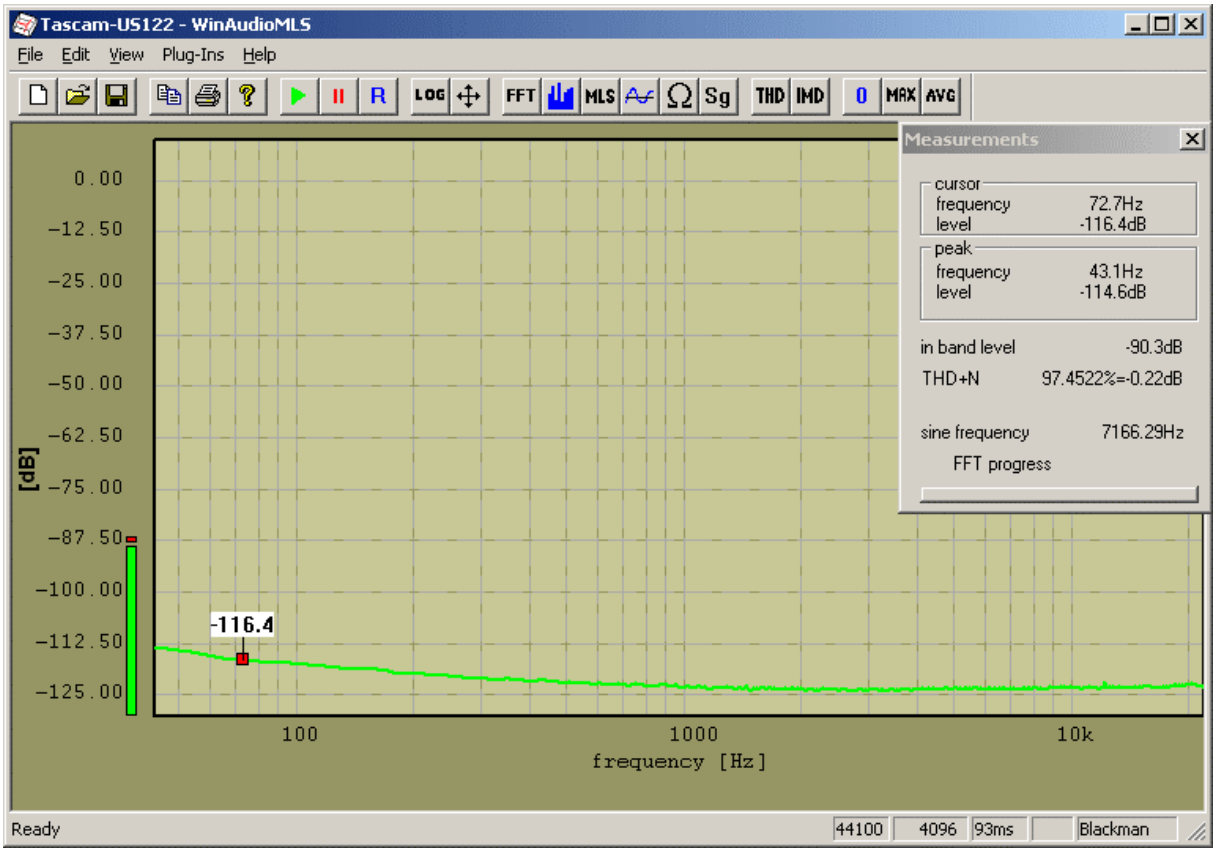
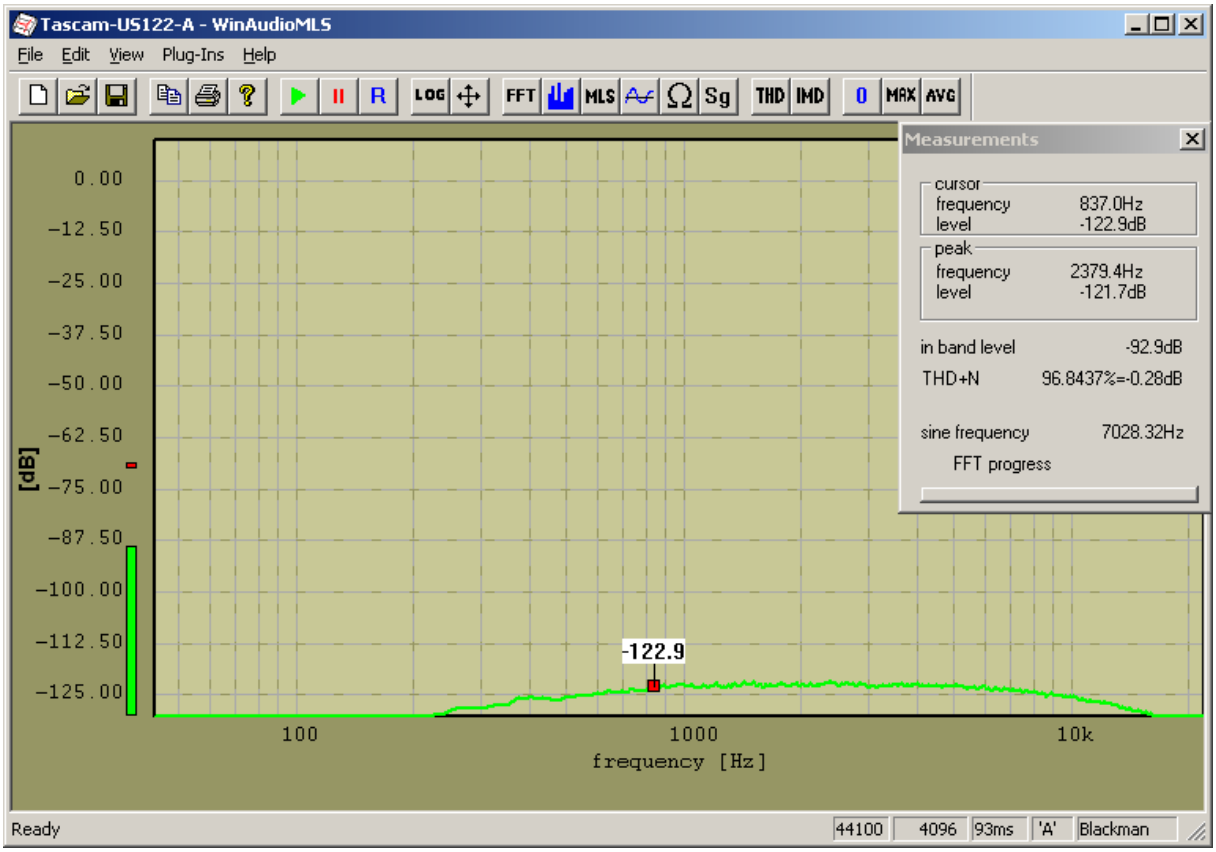


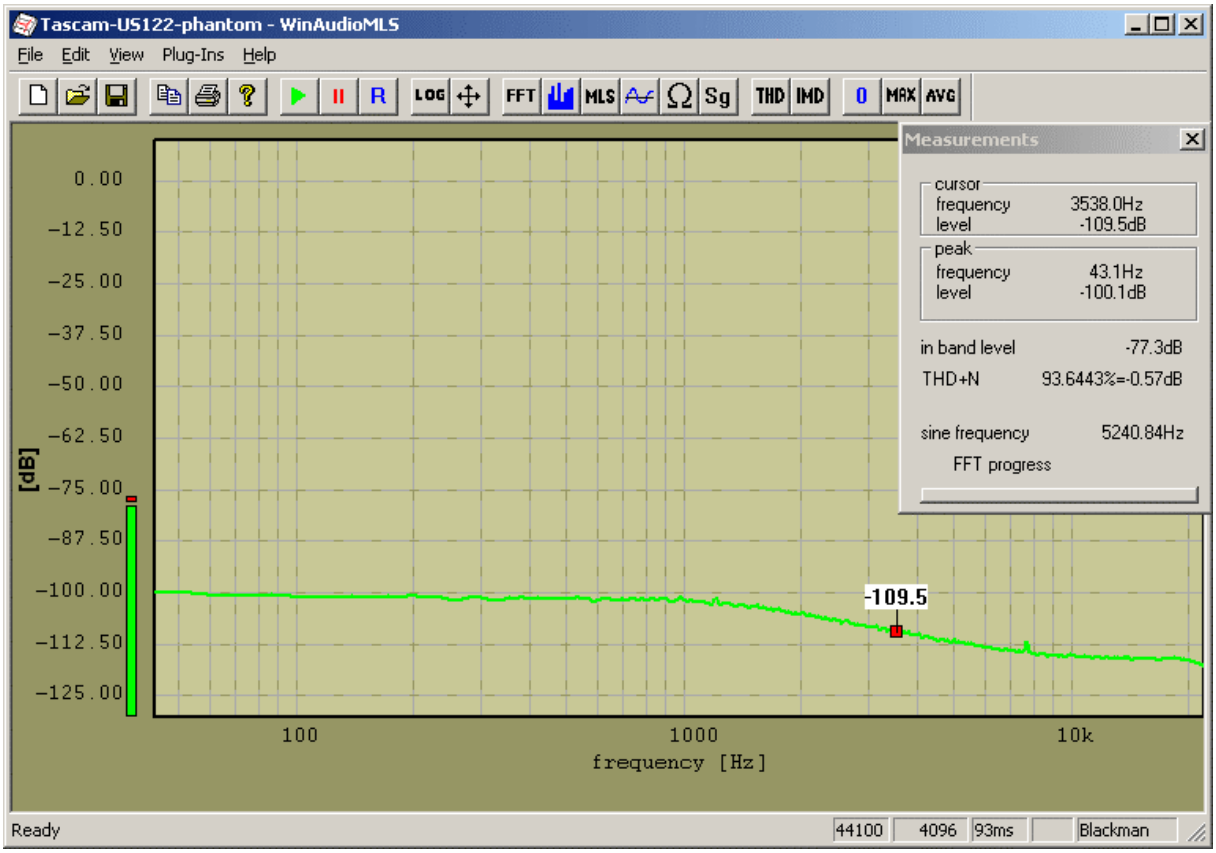



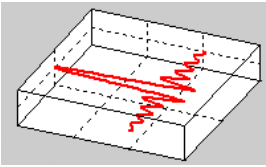
## *Quite noise+Phantom power.*

Input is set to zero. Phantom power **on**.

### Results:

-77.3 dB with no weighting
-77.6 dB A weighting





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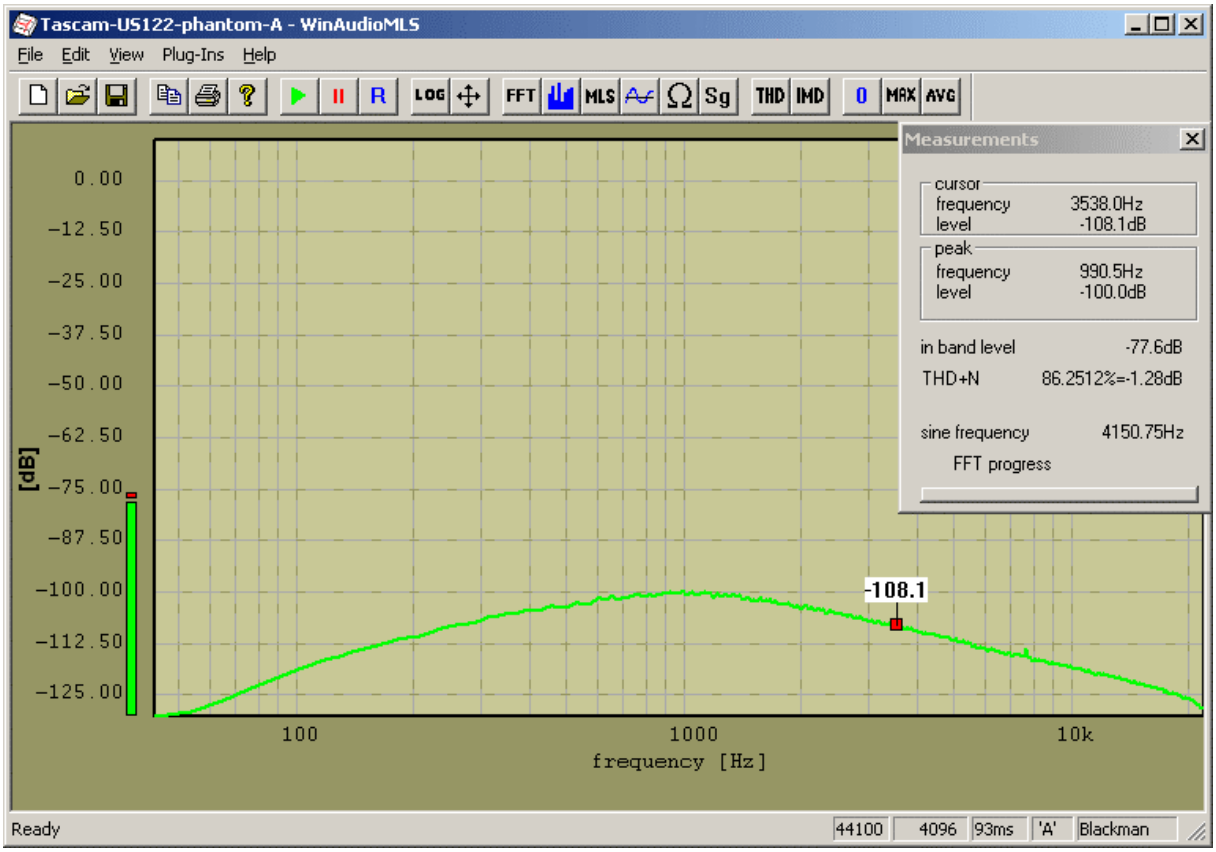
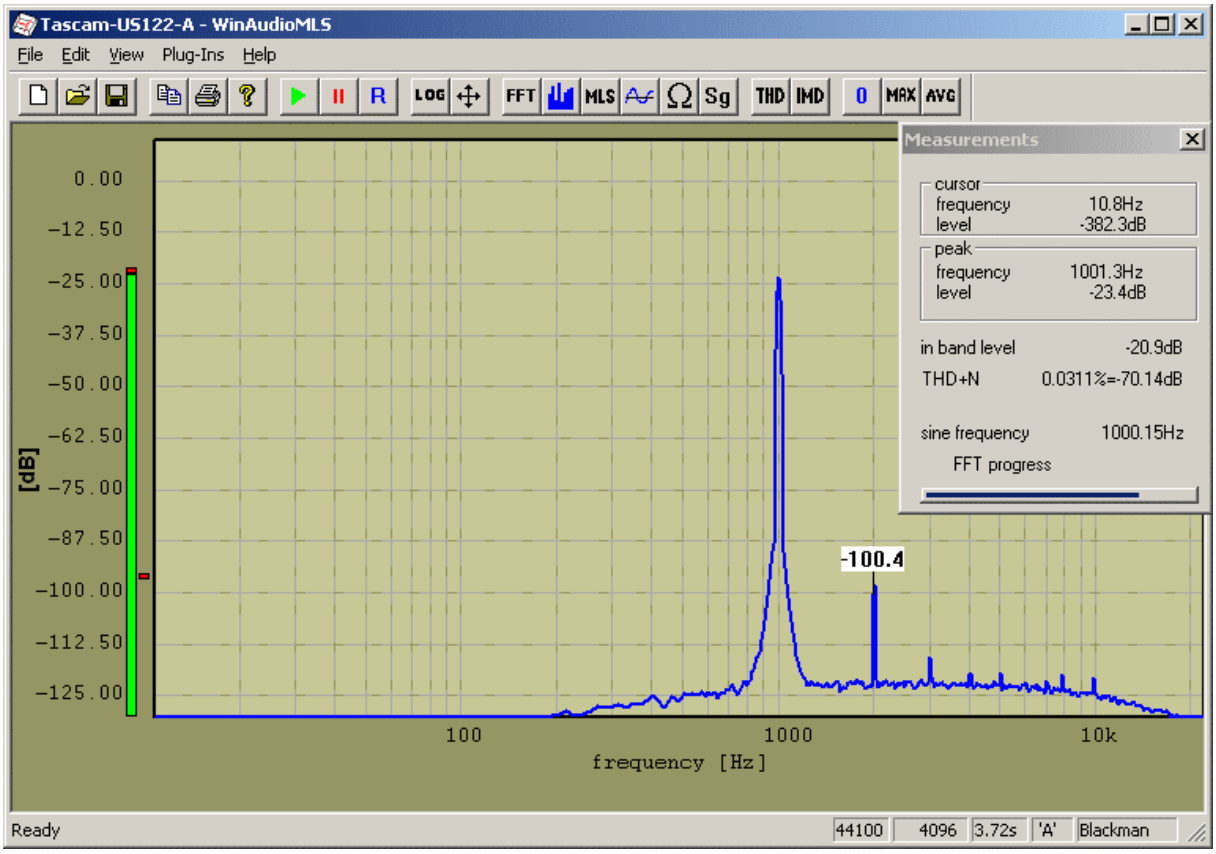
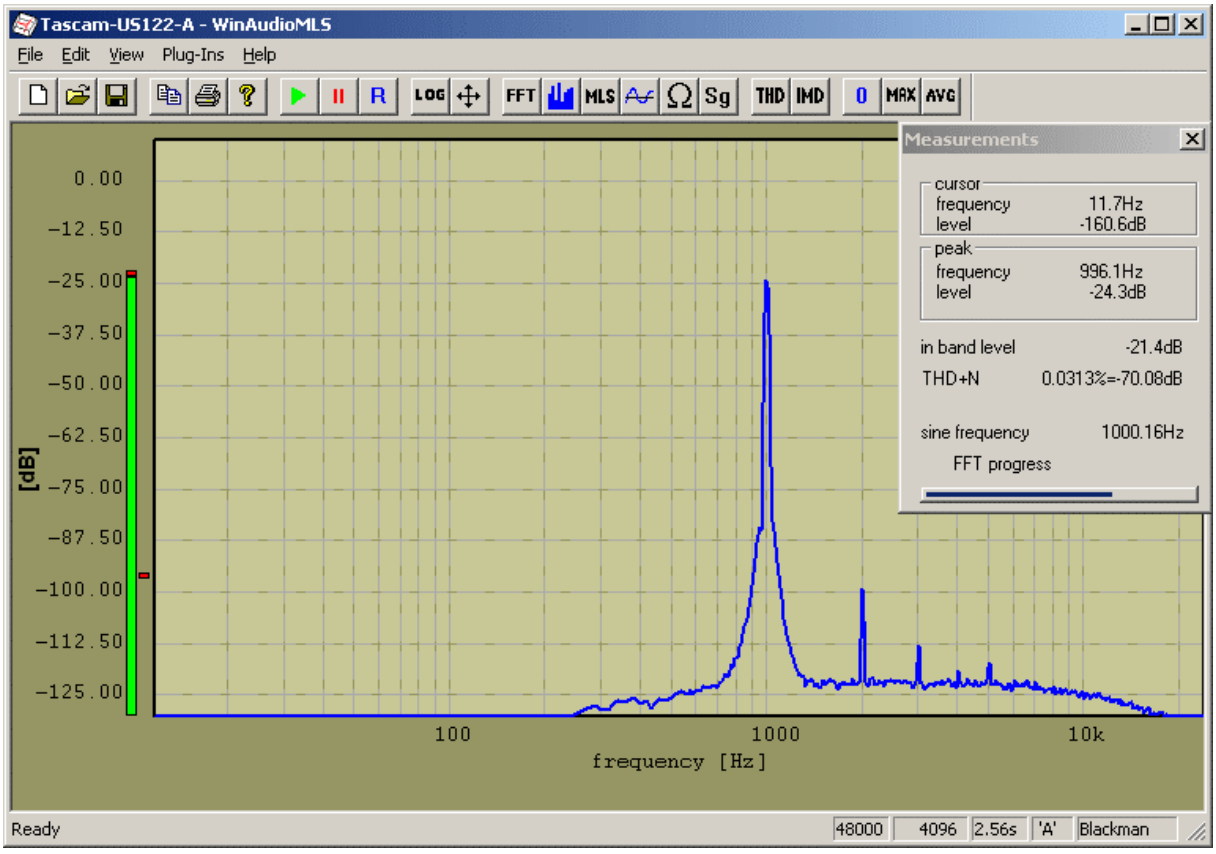


## *THD+N at 1kHz sine*

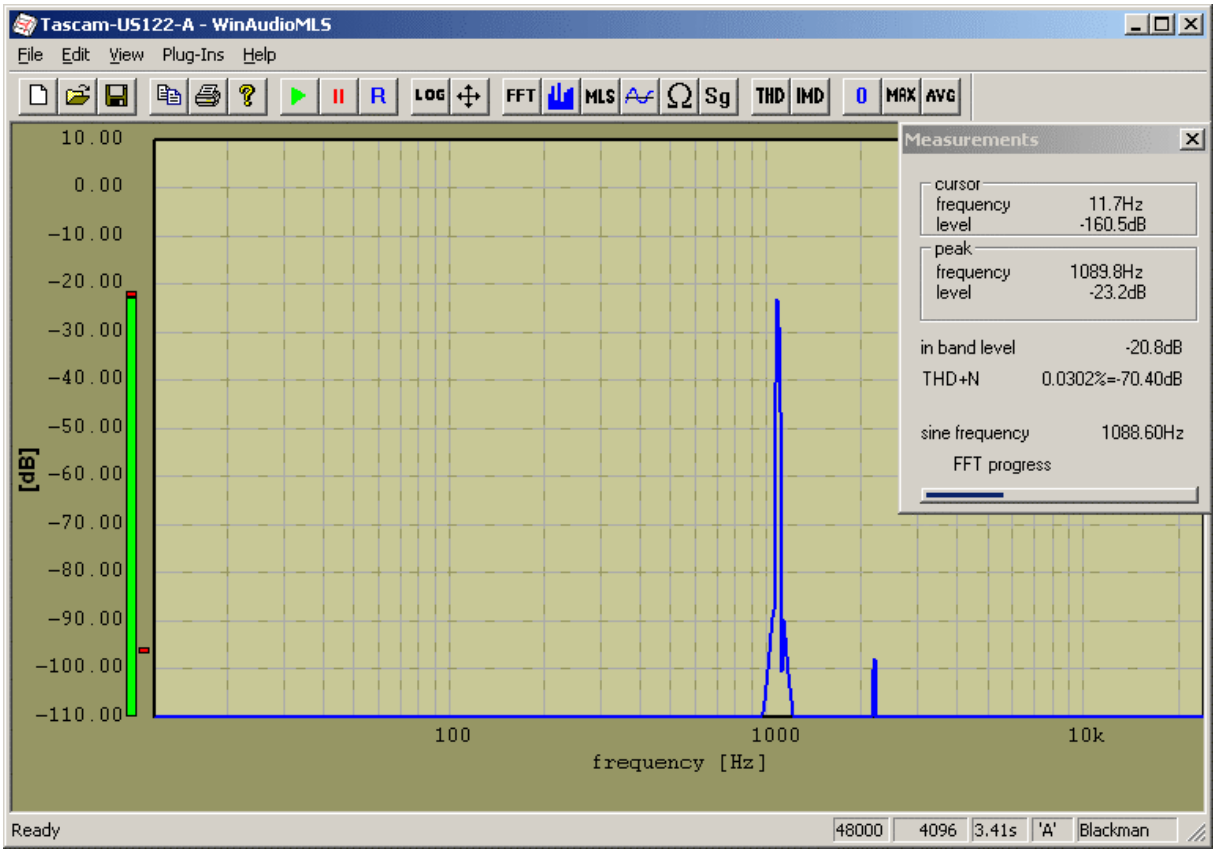
Sample rate is 44.1kHz. Levels are set for optimum THD+N.



Sample rate is 48kHz. Levels are set for optimum THD+N.



Output is 44.1kHz. Input is set to 48kHz. This enhanced full duplex mode does not work. Instead the card samples at 44.1kHz.



## *Frequency response*