professional measurements by

www.dr-jordan-design.de

Creative Labs Audigy2NX+ USB multi channel audio device

Summary:

External USB audio device with microphone preamplifier/headphone + digital input and outputs. 8 channel analog output. High resolution data transfer 96kHz/24 bits on all channels with USB 2.0.

Quite noise is at -91.4 dB(A)
THD+N is at –84.5dB
Sample rates are 44.1kHz, 48kHz.and 96kHz
Enhanced full duplex with different sample rates at the input and output is supported.

Measurements include

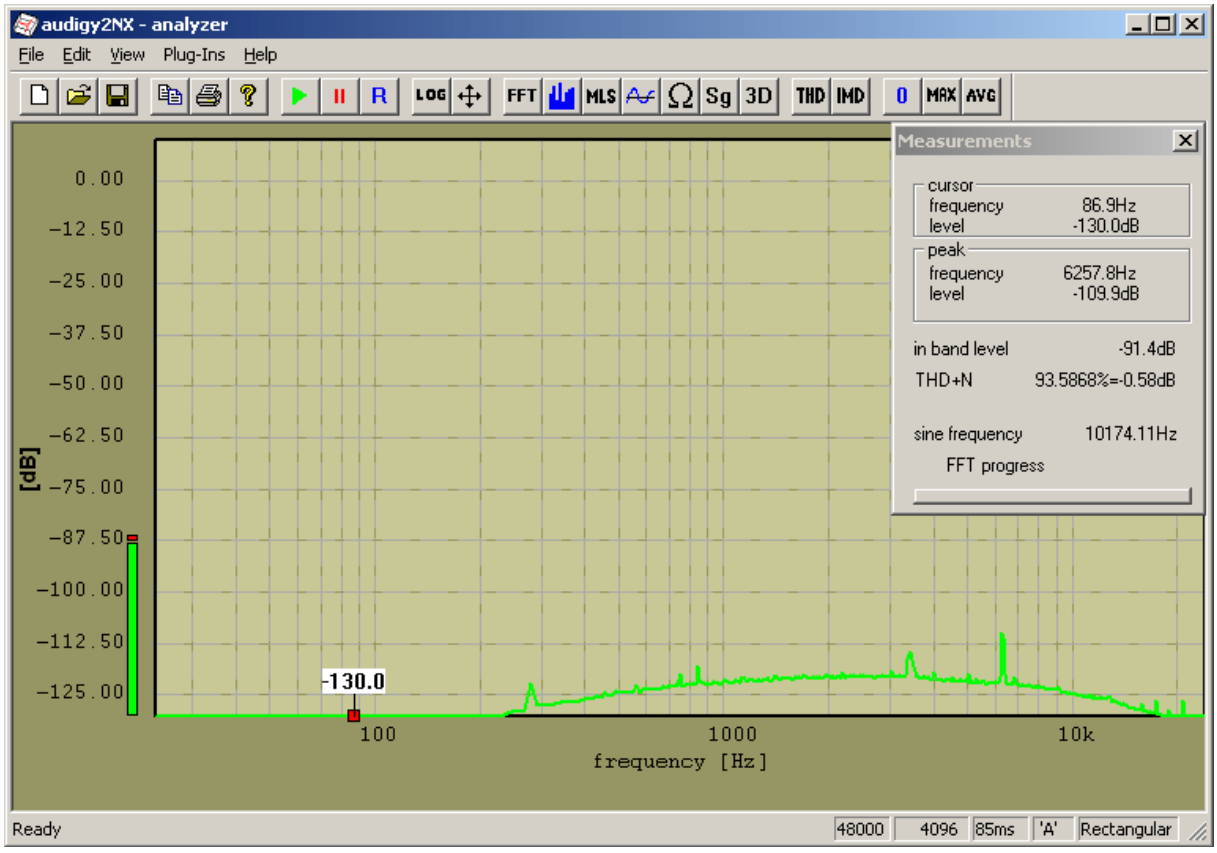
- quite noise
- THD+N
- frequency response
- 96kHz check
- Enhanced full duplex check

Quite noise.48kHz

Input is open. Input level is optimum for full scale input. Sample rate is 48kHz.

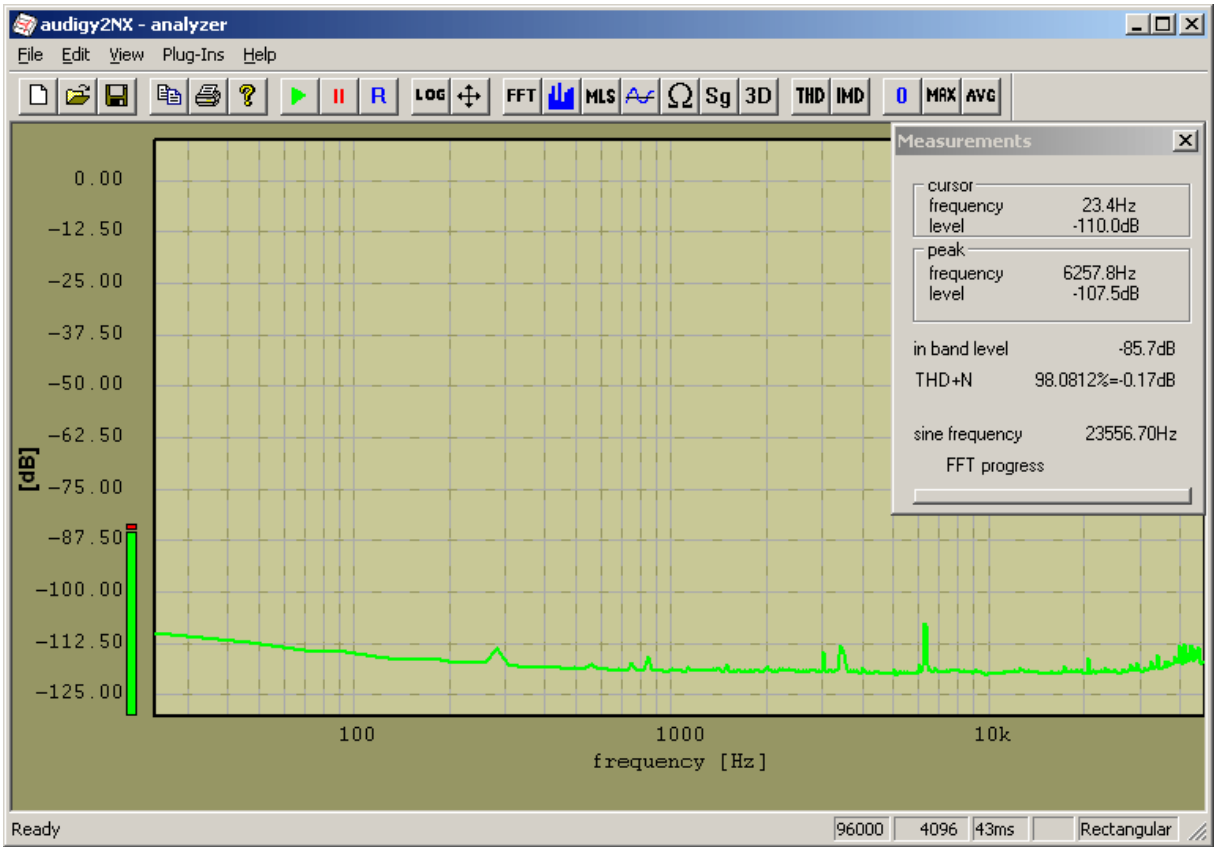
Results:

-91.4 dB A weighting



Quite noise 96kHz

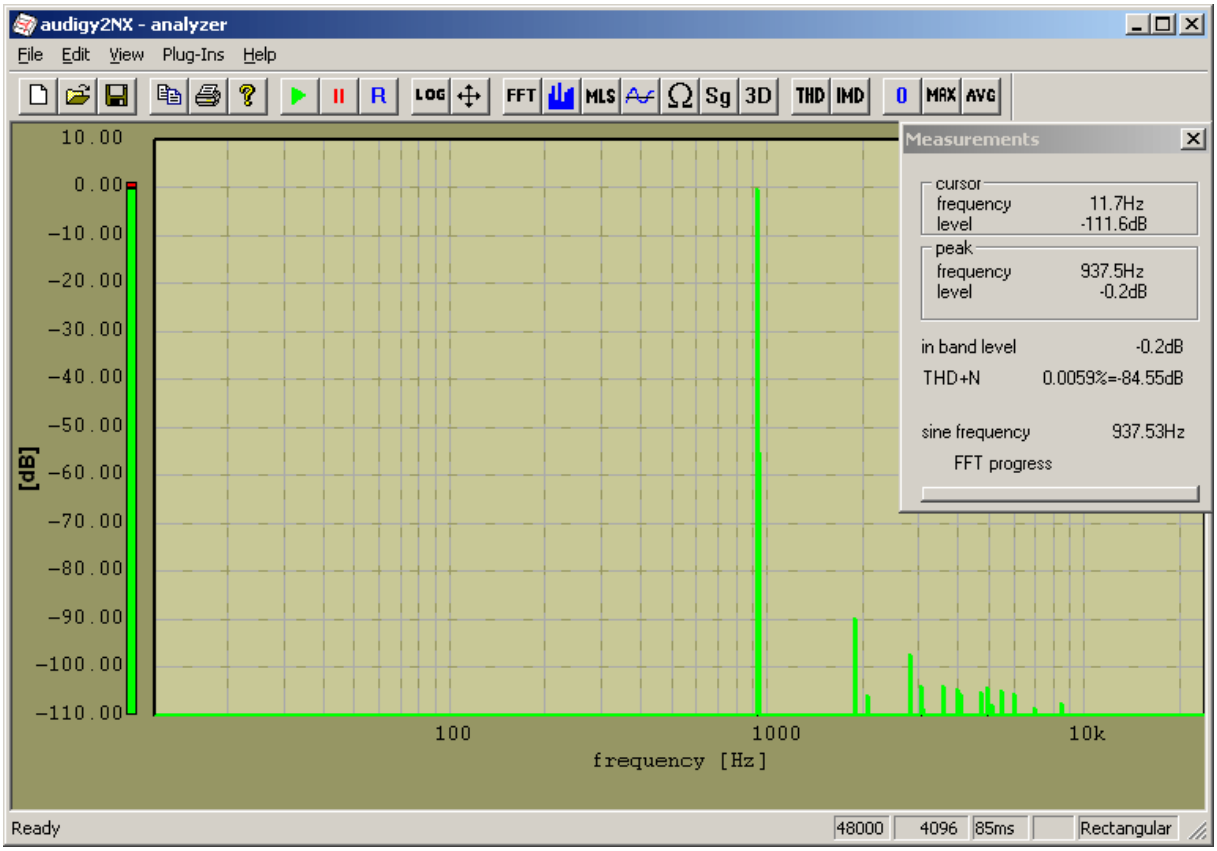
- Input is open.
- Input level is optimum for full scale input.
- Sample rate is 96kHz.
- Unweighted



THD+N sine 48kHz

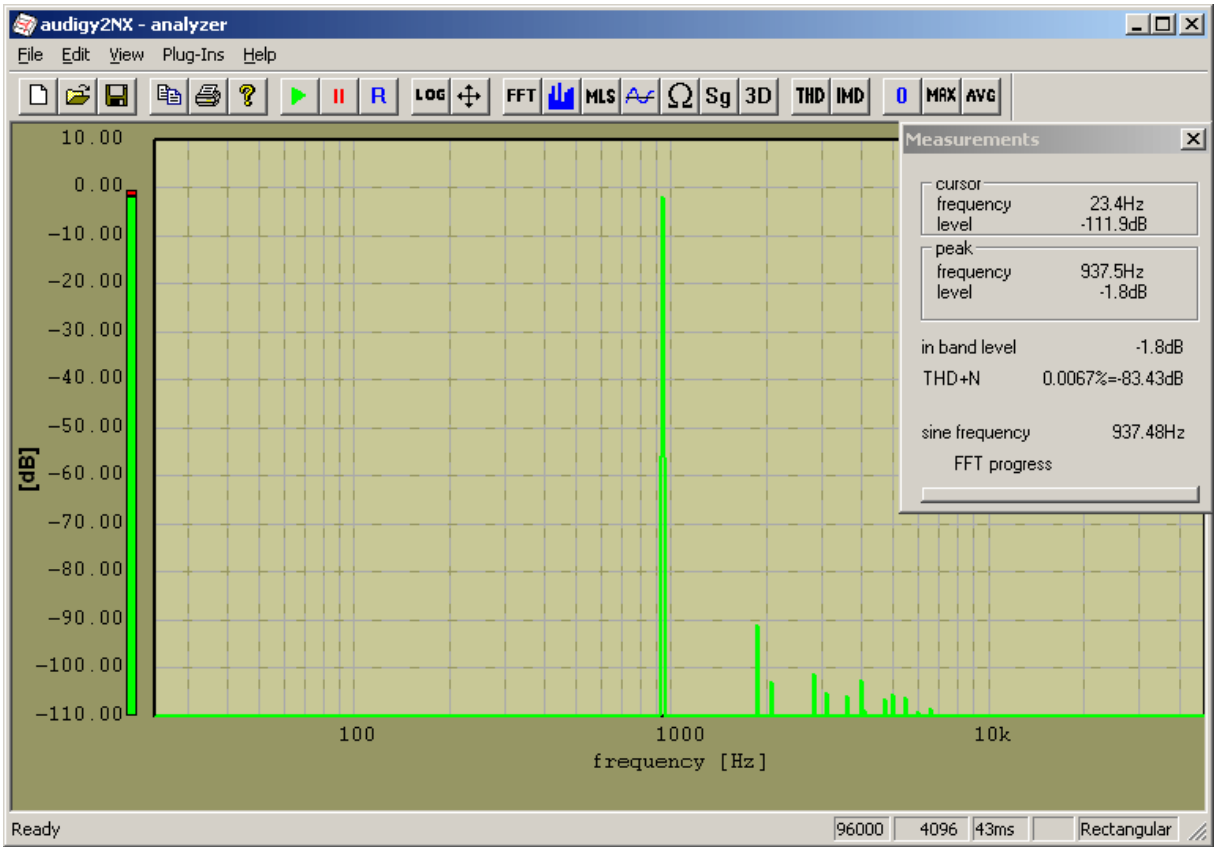
- Sample rate is 48kHz.
- Input frequency is 937.5 Hz
- Levels are set for optimum THD+N.
- This card reaches –84.5dB unweighted.

We use a special frequency, which is periodic to the block length. This allows to make analysis without windows functions. Please refer to the documentation of WinAudioMLS for details.



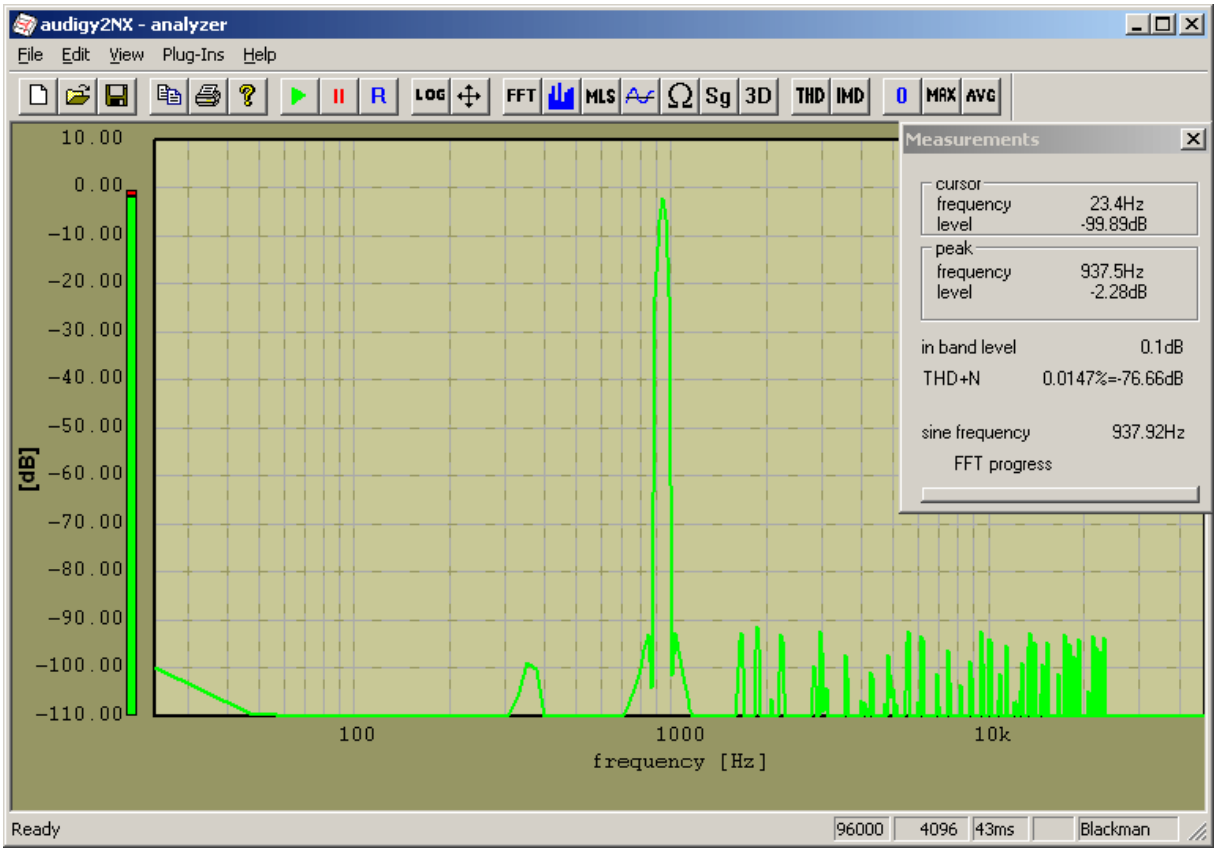
THD+N sine 96kHz

- Sample rate is 96kHz.
- Input frequency is 937.5 Hz
- Levels are set for optimum THD+N.



Enhanced full duplex check

- Output is 44.1kHz. Input is set to 96kHz.
- Input is a sine with 937.5kHz
- This enhanced full duplex mode works.



Frequency response

- Sample rate is 96kHz