

TEQUILA-Mk3-SST

The enclosed Plots

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Preliminary

All plots were taken by my Audio Analyzer HP8903B and plotted via my HP7035B.

TEQ-Mk3_LineMod-MainOUT-01

This plot shows the basic performance of the LINE-STAGE at its MAIN OUTPUT. Black = Left channel, red = right channel. Additionally, the built-in 80kHz Low Pass Filter (LPF) was switched on for increased THD averaging ⇨

- On top you see the Signal-to-Noise-Ratio (SNR). Pls. add -20dB in mind, because I could not use the typical 100kΩ due to it was broken. So, I took the standard 1MΩ probe and this one show app. 20dB less. The correct value will therefore be app. -90 to -95dB avg.
- Next line shows resulting frequency response (f_{res}), which is perfect at 0dB. Pls. note that full scale (FS) is ± 2 dB !
- Last line shows Total Harmonic Distortion (THD) at perfect 0,1%. Red line (right ch.) without LPF, black line (left ch.) with LPF.

TEQ-Mk3_LineMod-MainOUT-02

This plot again shows the basic performance of the LINE-STAGE at its MAIN OUTPUT but this time with increased resolution for f_{res} and THD.

- On top SNR - this time via a better 1MΩ probe with improved shielding than the before one. Same result of app. -90dB. No LPF switched on.
- Next four lines are f_{res} and THD at the highest resolution possible for my analyzer. Pls. note that FS of $f_{res} = \pm 0,2$ dB and of THD is 0,02% per divider. Using this high resolution, I would not grant for values below 100Hz due to possible interference with mains issues.

TEQ-Mk3_LineMod-AuxOUT-01

This plot again shows the basic performance of the LINE-STAGE at its AUX OUTPUT but this time with increased resolution for f_{res} and THD. Here you can identify the moment the 100k probe broke during SNR plot of the left channel. The AUX output is useful to connect a Tape deck or a Headphone Amp, or anything that shows its own volume control and needs to be perfectly decoupled from the MAIN outputs.

- On top SNR – L-ch. During break and R-ch. Using the better 1MΩ probe with improved shielding than the before one. Same result of app. -90dB. No LPF switched on.

- Next line shows resulting frequency response (f_{res}), which is perfect at 0dB. Pls. note that full scale (FS) is $\pm 1\text{dB}$!
- Last line shows Total Harmonic Distortion (THD) at perfect 0,025% avg. Pls. remind that this is simply a sophisticated unity gain buffer.

TEQ-Mk3_Phono-compound

These plots show the interaction of the RIAA-Phone-Stage CHARDONNAY with the TEQUILA-Mk3-Line Stage.

- Upper lines show the absolute fres of the CHARDONNAY in its final form while the plots below show the relative output of TEQUILA with input from CHARDONNAY.
- Both plots show a perfect behavior. Pls. note that the max. deviation from the typical curve is smaller than +0,12dB and -0,1dB. Again, I would ignore all values below 100Hz due to interference with mains issues at such high resolution. You can see the peak at 50Hz (= domestic mains freq. in Europe)?



If you have any further question, you can contact me via eMail.

PROJEKT:



PROJECT: TEQUILA MK 3 - SST
Line Modul

THD
+0,2dB/0,2%

SNR

-100dB

-90

-80

-70

-60

-50

-40

-30

-20

-10

0

L = Black
R = Red

SNR

Freq. Response L
R

THD

THD

0,02 0,12%

0dB 0,1%

0,02 0,8%

-0,2dB/0,1%

20kHz

1kHz

20kHz

All measurements taken with 80kHz LPF

SNR add. -20dB from probe! [MAIN OUTPUT]

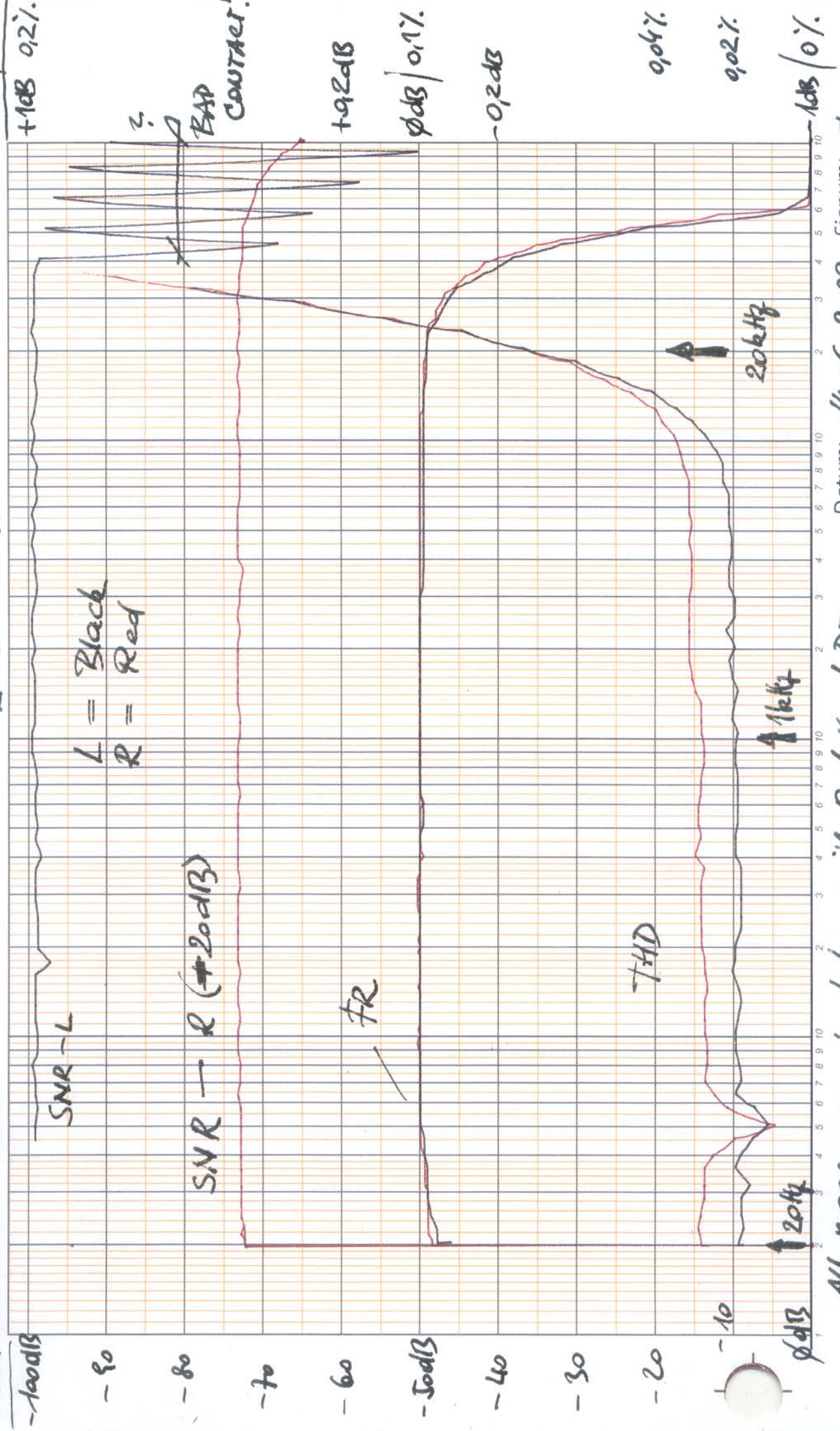
Datum: 14.06.2022

Signum: BEG

PROJECT:

TEQUILA MK3 - SST
Line Modul

FR | THD
+1dB 0.2%



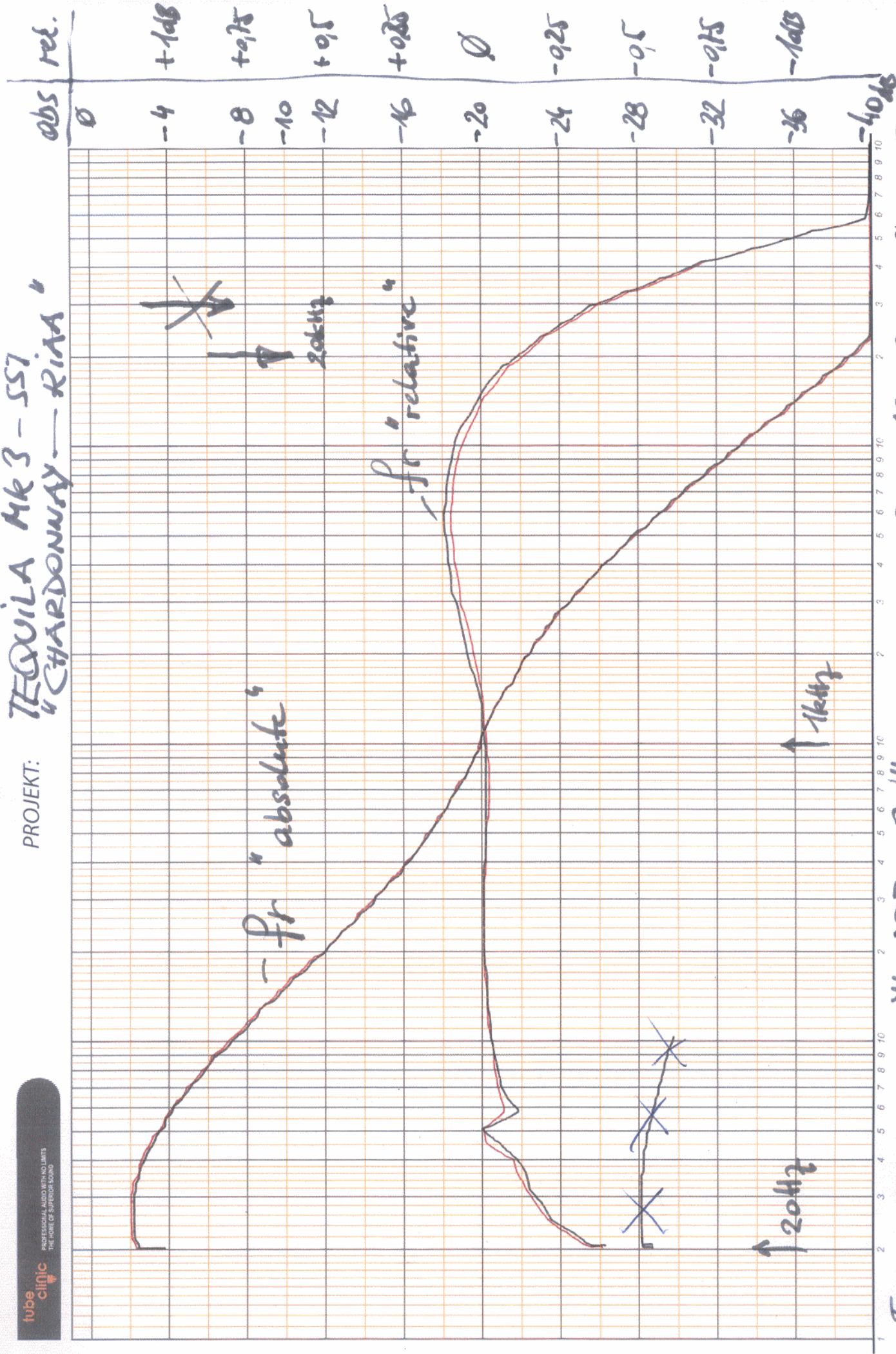
All measurements taken with 80kHz LPTF
SNR - R add. -20dB from probe!

Datum: 14.06.2022
AUX. OUTPUT

Signal: BEG

PROJECT:

TEQUILA Mk3 - SS7
"CHARDONNAY" - RIAA



Frequ. response with LPT < 80kHz
BLACK = Left channel ; RED = Right channel

Datum: 16.8.2022

Signum: PEG