# No 1622

# Measured performance

G. Orest 2017-03-09

#### 1. Signal to noise ratio

RIAA input: +46dB gain (min gain setting), ref=5,0 mVrms (Moving magnet)

20-22k: 82dB A-weighted: 92dB

+66dB gain (max gain setting), ref=500 µVrms (Moving coil)

20-22k: 62 dB A-weighted: 72 dB

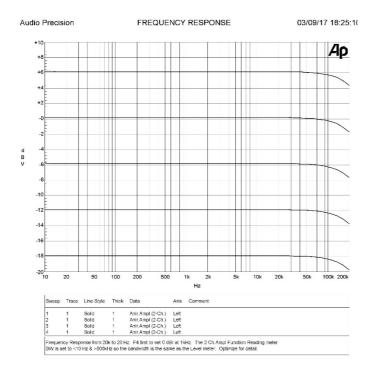
LINE input: +6dB gain, ref 1V rms

20-22k: 112 dB A-weighted: 116 dB

#### 2. RIAA overload margin

+46 dB gain, ref=5,0 mV @ 1 kHz (clipping defined as max 3% THD)

20 Hz: 22 dB 1 kHz: 22 dB 20 kHz: 23 dB

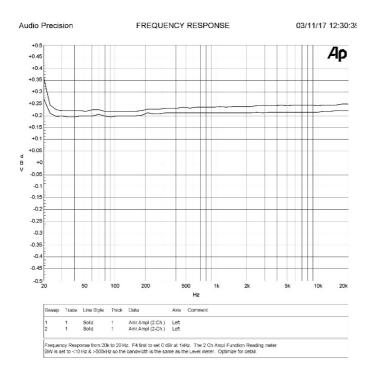


## 3. Frequency response at different volume settings, line inputs

A-A FREQ RESP.at1

#### 4. Channel balance

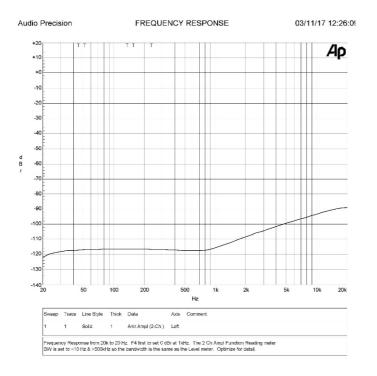
Channel balance with preamp set to unity gain. Imbalance is approximately 0,025 dB



A-A FREQ RESP.at1

### 5. Crosstalk

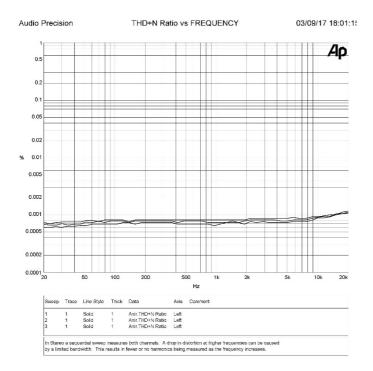
## Crosstalk, left to right



A-A FREQ RESP.at1

## 6. THD+noise versus frequency

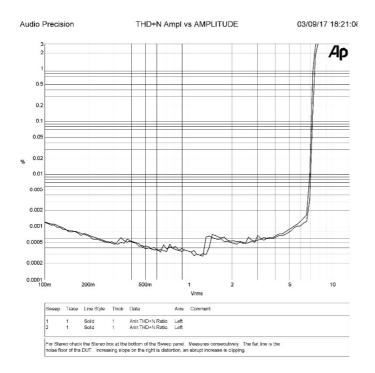
2,0 Vrms, +6dB gain. From top to bottom at 1 kHz: 150 ohms, 600 ohms, 100 kohms load impedance



A-A THD+N VS FREQ.at1

## 7. THD+noise versus input level, +6 dB gain

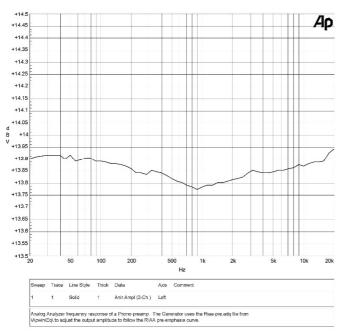
From top to bottom at 5 Vrms: 600 ohms, 100 kohms. Note that X-axis shows input voltage; output is +6 dB. (glitch is due to AP system ONE input gain switching)



A-A THD+N VS AMPL.at1

#### 8. RIAA error

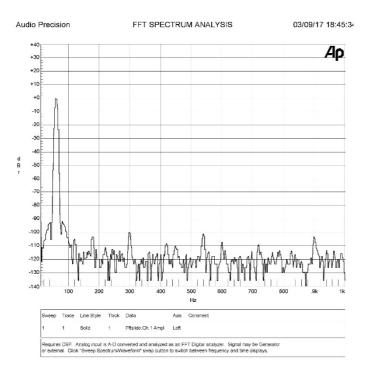
## Deviation from RIAA-standard. (<+/-0,1dB)



Audio Precision EQ AMPLITUDE vs FREQUENCY - RIAA PHONO PREAME 03/09/17 18:53:52

A-A FREQ RESP RIAA EQ.at1

## 9. FFT of 60 Hz, 2Vrms



A-A FFT.at1