

Perreaux éloquence 150i Integrated Amplifier

RightMark Audio Analyzer test

Hi fi audio amplifier and electronics repair facility, Audio Specialty Co. of Hudson NH, recently conducted a series of tests on our éloquence 150i Integrated Amplifier.

The éloquence 150i "is very impressive" and "its technical performance is practically indistinguishable from perfection", comments David Plummer, proprietor of Audio Specialty Co. "its noise floor and distortion (THD and IM) levels are among the lowest (best) that I have ever measured."

Of course we were extremely chuffed to hear David's comments and it's very pleasing to see third-party tests reflect our own in-house test results. We try our best to test in real-world conditions and provide real-world specifications, so it was very reassuring to see David's tests show similar results – even though they were conducted using entirely different test equipment.

David's tests were conducted using RightMark Audio Analyzer 5.5 test software, running on a PC using an Echo Audio Mia sound card. His results are included below for your reference.

**Testing chain: Input 3 to Main out
Sampling mode: 24-bit, 96 kHz**

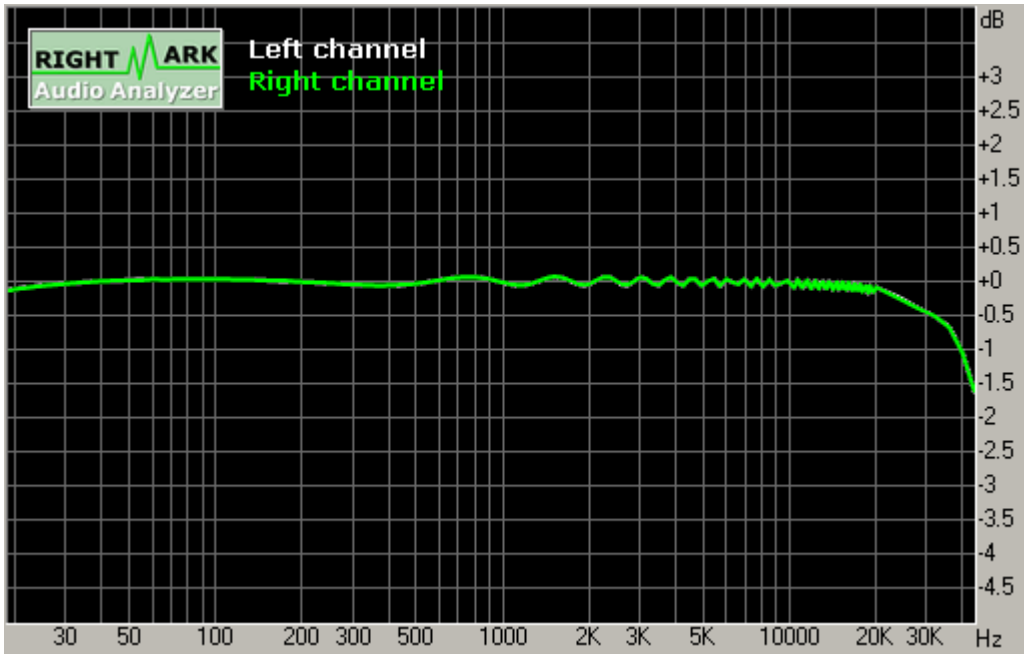
Serial #841626 Amp clips at 220 watts/channel into 8 ohms at 1KHz with no thermal pre-conditioning, both channels driven.

Summary

| | | |
|---|--------------|-----------|
| Frequency response (from 40 Hz to 15 kHz), dB: | +0.07, -0.12 | Very good |
| Noise level, dB (A): | -92.9 | Very good |
| Dynamic range, dB (A): | 91.1 | Very good |
| THD, %: | 0.0014 | Excellent |
| IMD + Noise, %: | 0.0089 | Very good |
| Stereo crosstalk, dB: | -84.6 | Very good |
| IMD at 10 kHz, %: | 0.0092 | Very good |

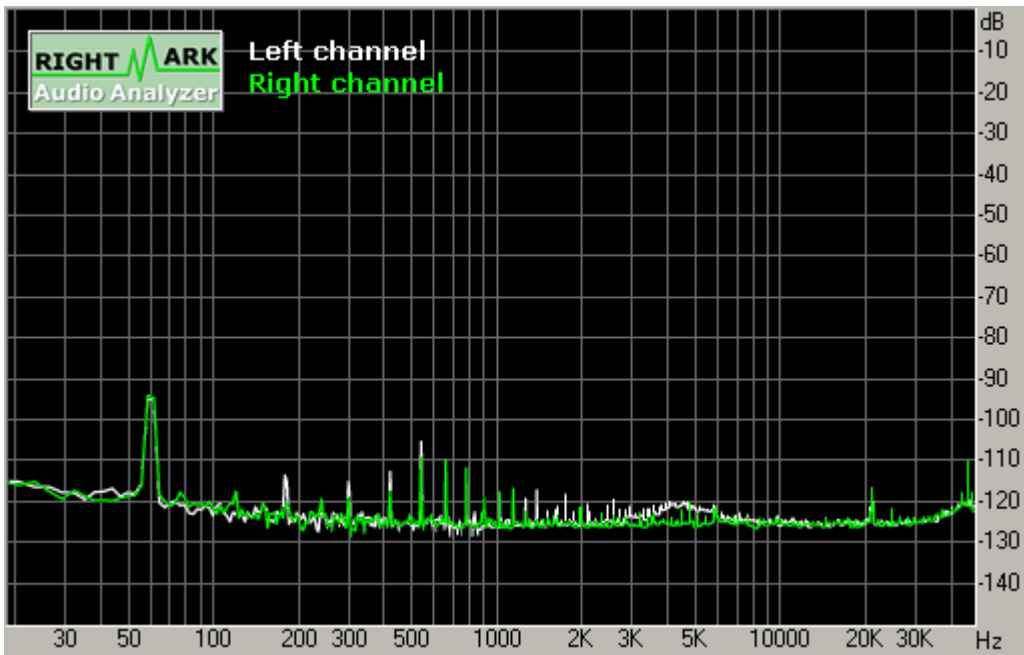
General performance: Very good

Frequency response



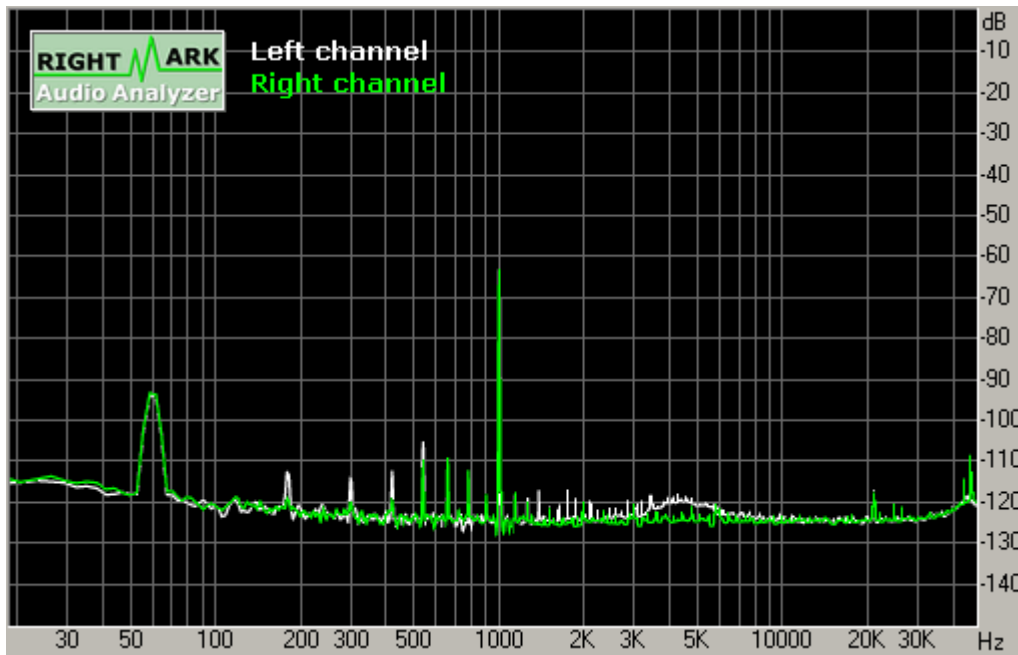
| Frequency range | Response |
|--------------------------|--------------|
| From 20 Hz to 20 kHz, dB | -0.17, +0.07 |
| From 40 Hz to 15 kHz, dB | -0.12, +0.07 |

Noise level



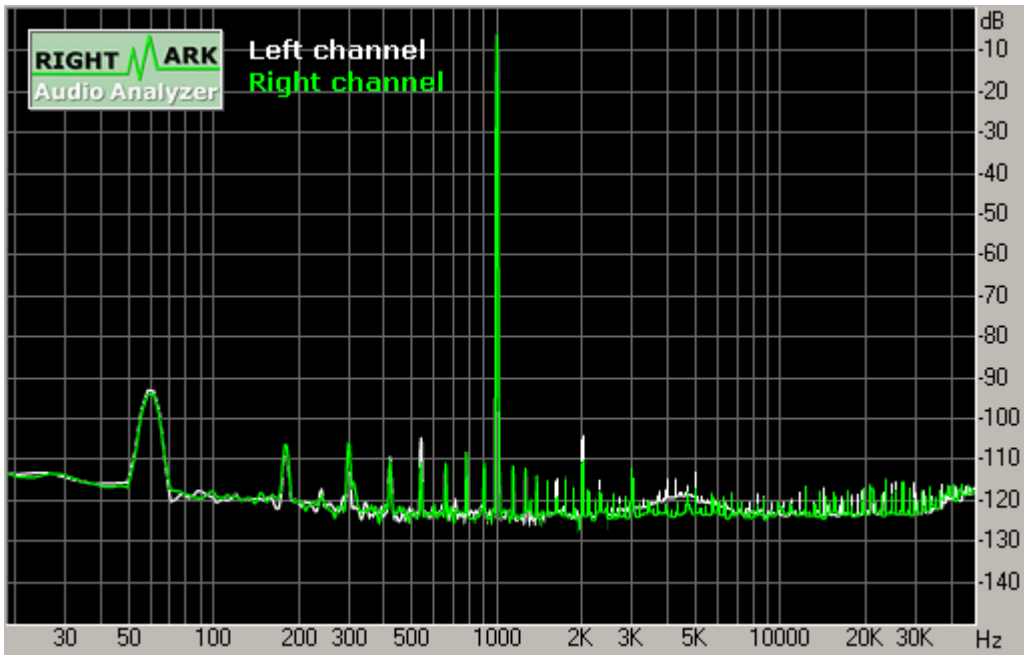
| Parameter | Left | Right |
|-----------------------------|-------|-------|
| RMS power, dB: | -89.7 | -90.3 |
| RMS power (A-weighted), dB: | -91.2 | -92.9 |
| Peak level, dB FS: | -73.0 | -71.3 |
| DC offset, %: | -0.00 | -0.00 |

Dynamic range



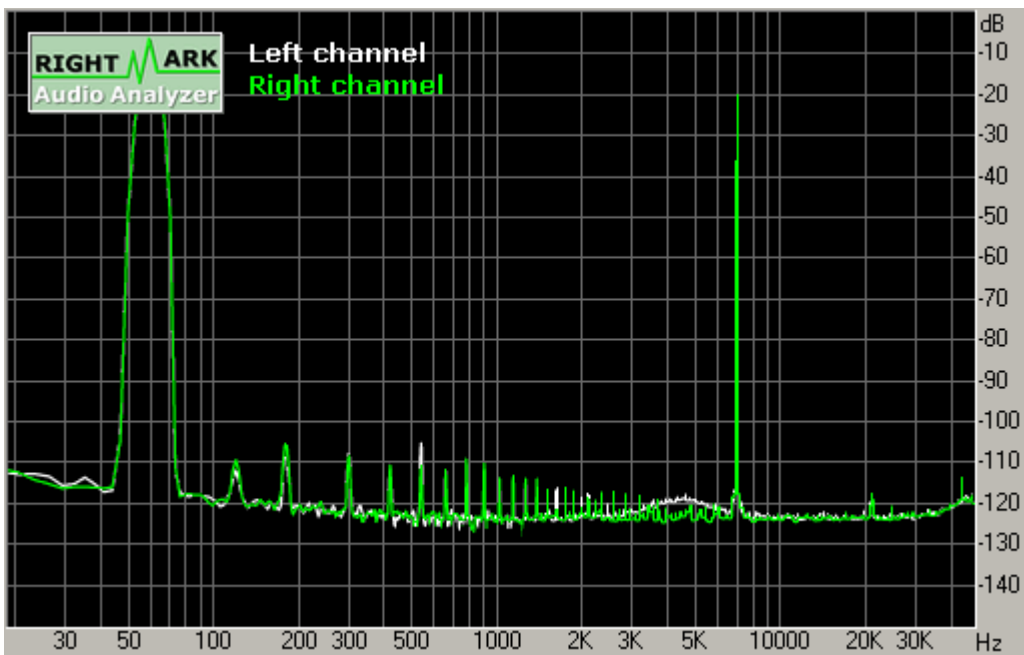
| Parameter | Left | Right |
|---------------------------------|-------|-------|
| Dynamic range, dB: | +89.7 | +90.5 |
| Dynamic range (A-weighted), dB: | +91.1 | +93.2 |
| DC offset, %: | -0.00 | 0.00 |

THD + Noise (at -3 dB FS)



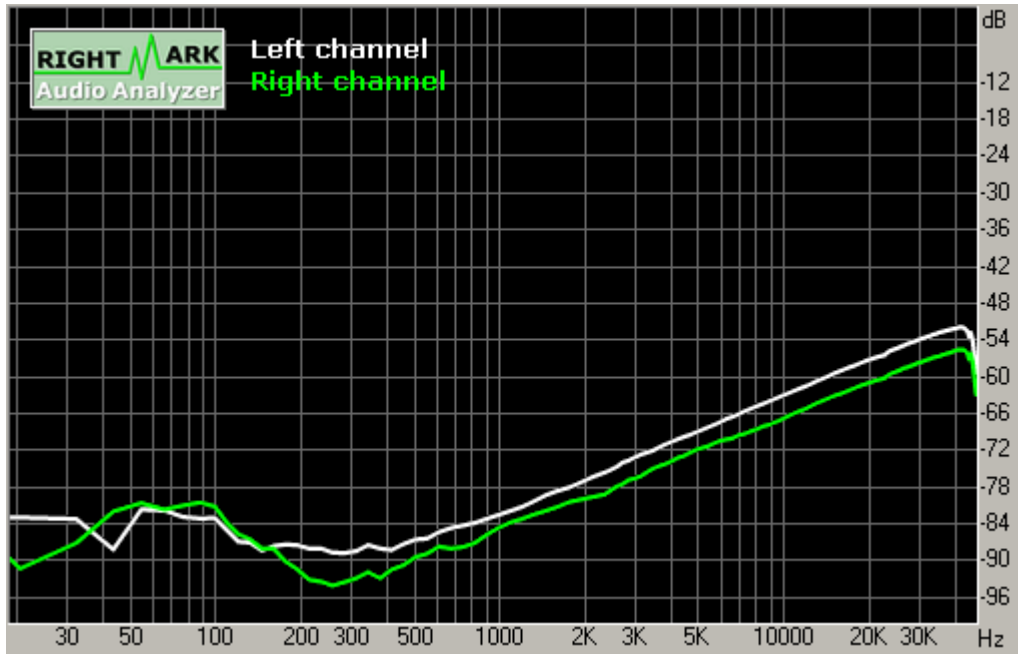
| Parameter | Left | Right |
|------------------------------|--------|--------|
| THD, %: | 0.0019 | 0.0014 |
| THD + Noise, %: | 0.0094 | 0.0082 |
| THD + Noise (A-weighted), %: | 0.0079 | 0.0064 |

Intermodulation distortion



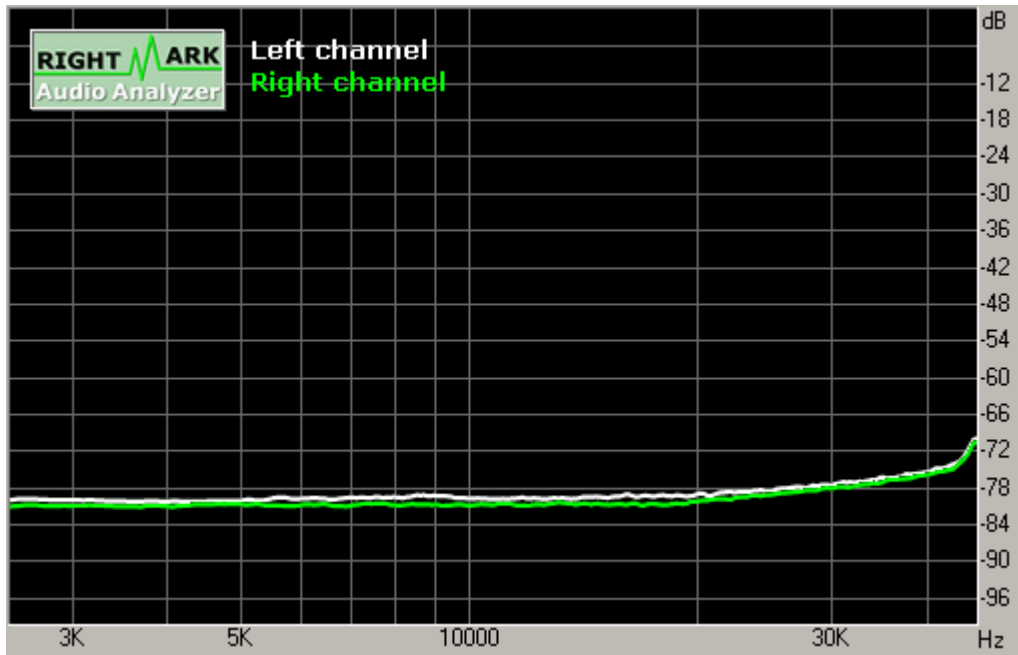
| Parameter | Left | Right |
|------------------------------|--------|--------|
| IMD + Noise, %: | 0.0099 | 0.0089 |
| IMD + Noise (A-weighted), %: | 0.0093 | 0.0080 |

Stereo crosstalk



| Parameter | L <- R | L -> R |
|--------------------------|--------|--------|
| Crosstalk at 100 Hz, dB: | -82 | -80 |
| Crosstalk at 1 kHz, dB: | -81 | -84 |
| Crosstalk at 10 kHz, dB: | -62 | -66 |

IMD (swept tones)



| Parameter | Left | Right |
|---------------------------|--------|--------|
| IMD + Noise at 5 kHz, %: | 0.0099 | 0.0093 |
| IMD + Noise at 10 kHz, %: | 0.0103 | 0.0091 |
| IMD + Noise at 15 kHz, %: | 0.0105 | 0.0092 |

This report was generated by RightMark Audio Analyzer 5.5