



## Comparativo SoundBlaster Audigy 2 PCI vs M-Audio Audiophile 2496

### Audio Analyzer test report

Testing device	Sound Blaster Audigy 2496
Sampling mode	24-bit, 96 kHz
Interface	DirectSound
Testing chain	External loopback (line-out - line-in)
RMAA Version	6.1.0

20 Hz - 20 kHz filter	ON
Normalize amplitude	ON
Level change	-0.1 dB / -0.1 dB
Mono mode	OFF
Calibration signal, Hz	1000
Polarity	inverted/inverted

### Summary

Frequency response (from 40 Hz to 15 kHz), dB	+0.17, -0.30	Good
Noise level, dB (A)	-93.5	Very good
Dynamic range, dB (A)	92.2	Very good
THD, %	0.013	Good
THD + Noise, dB (A)	-75.4	Average
IMD + Noise, %	0.013	Very good
Stereo crosstalk, dB	-90.1	Excellent
IMD at 10 kHz, %	0.013	Very good
<b>General performance</b>		<b>Very good</b>

### RightMark Audio Analyzer test report

Testing device	M-Audio Delta AP Multi 2496
Sampling mode	24-bit, 96 kHz
Interface	DirectSound
Testing chain	External loopback (line-out - line-in)
RMAA Version	6.1.0

20 Hz - 20 kHz filter	ON
Normalize amplitude	ON
Level change	-0.6 dB / -0.7 dB
Mono mode	OFF
Calibration signal, Hz	1000
Polarity	correct/correct

### Summary

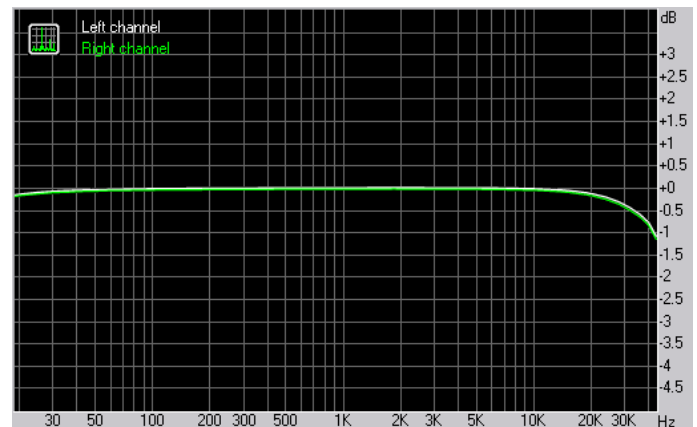
Frequency response (from 40 Hz to 15 kHz), dB	+0.01, -0.05	Excellent
Noise level, dB (A)	-99.5	Excellent
Dynamic range, dB (A)	99.5	Excellent
THD, %	0.0034	Very good
THD + Noise, dB (A)	-82.7	Good
IMD + Noise, %	0.0067	Excellent
Stereo crosstalk, dB	-96.9	Excellent
IMD at 10 kHz, %	0.0054	Excellent
<b>General performance</b>		<b>Excellent</b>

### Frequency response



From 20 Hz to 20 kHz, dB	-1.74, +0.17
From 40 Hz to 15 kHz, dB	-0.30, +0.17

### Frequency response

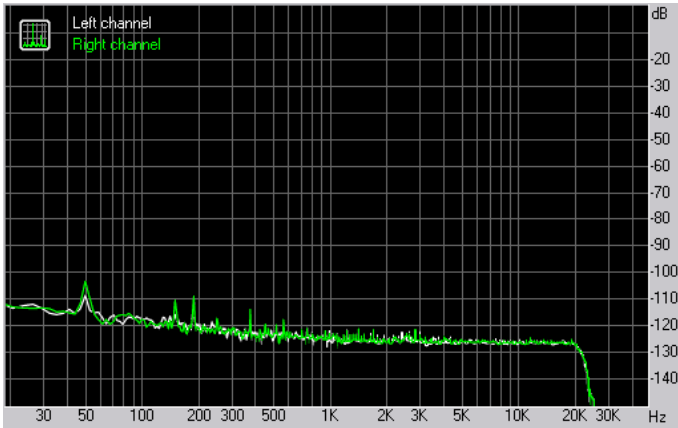


From 20 Hz to 20 kHz, dB	-0.13, +0.01
From 40 Hz to 15 kHz, dB	-0.05, +0.01



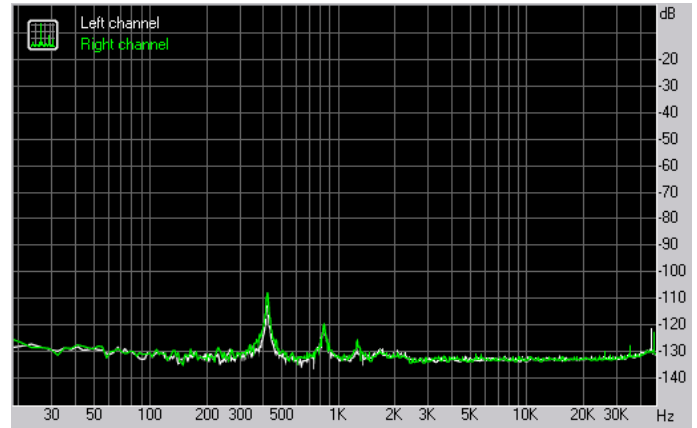
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Noise Level



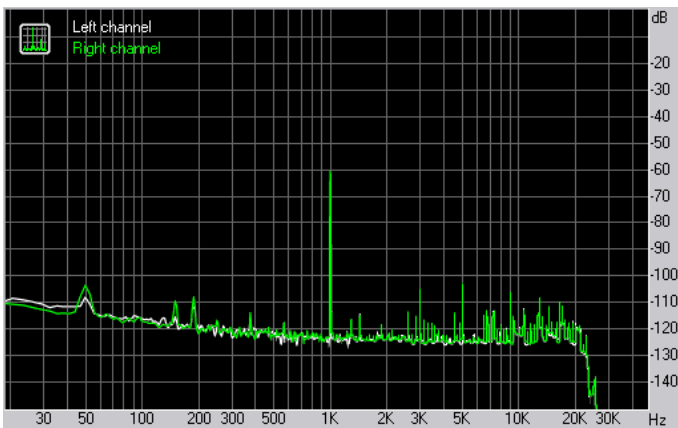
	Left	Right
RMS power, dB	-92.3	-92.1
RMS power (A-weighted), dB	-93.6	-93.4
Peak level, dB FS	-79.3	-78.6
DC offset, %	-0.0	-0.0

Noise Level



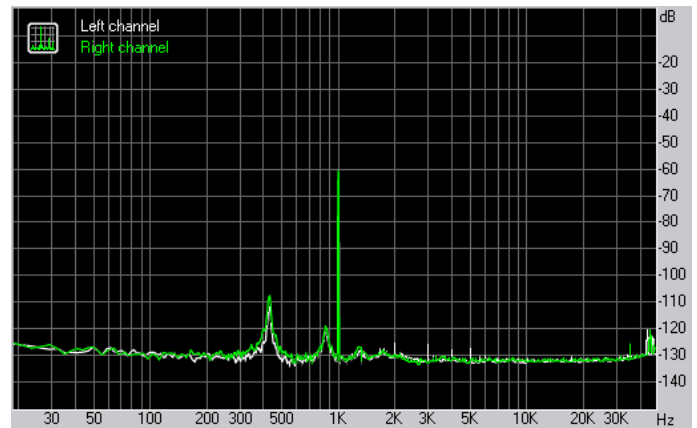
	Left	Right
RMS power, dB	-98.8	-97.8
RMS power (A-weighted), dB	-99.8	-99.1
Peak level, dB FS	-76.7	-76.7
DC offset, %	-0.0	-0.0

Dynamic range



	Left	Right
Dynamic range, dB	+91.3	+91.0
Dynamic range (A-weighted), dB	+92.3	+92.1
DC offset, %	-0.00	-0.00

Dynamic range

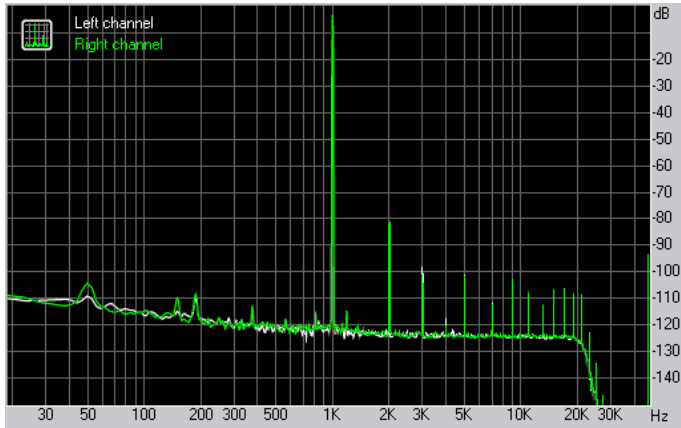


	Left	Right
Dynamic range, dB	+98.8	+97.9
Dynamic range (A-weighted), dB	+99.7	+99.2
DC offset, %	-0.00	-0.00



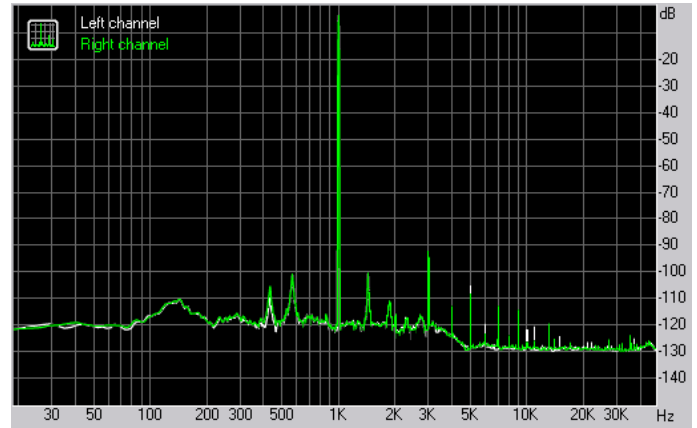
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THD + Noise (at -3 dB FS)



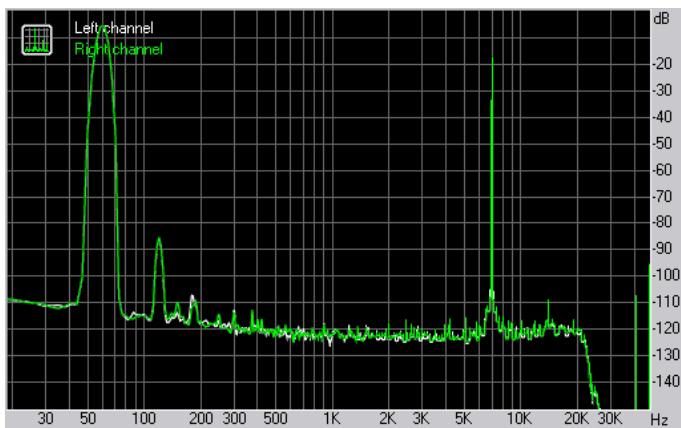
	Left	Right
THD, %	+0.0125	+0.0127
THD + Noise, %	+0.0134	+0.0137
THD + Noise (A-weighted), %	+0.0167	+0.0171

THD + Noise (at -3 dB FS)



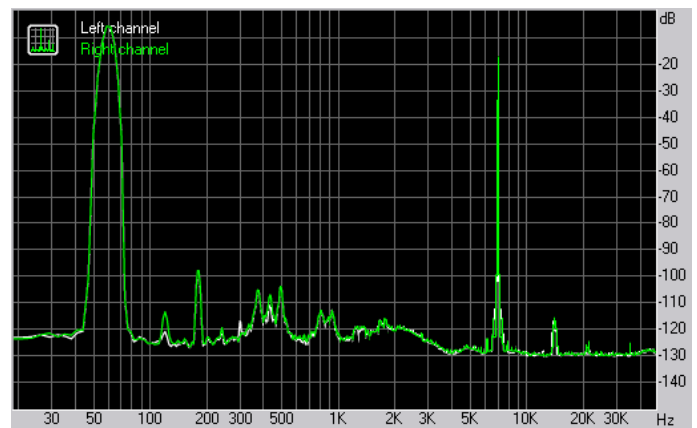
	Left	Right
THD, %	+0.0030	+0.0037
THD + Noise, %	+0.0062	+0.0068
THD + Noise (A-weighted), %	+0.0070	+0.0077

Intermodulation distortion



	Left	Right
IMD + Noise, %	+0.0130	+0.0134
IMD + Noise (A-weighted), %	+0.0090	+0.0091

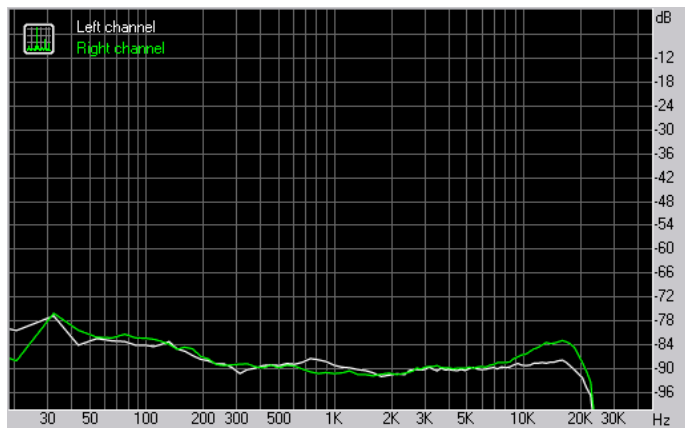
Intermodulation distortion



	Left	Right
IMD + Noise, %	+0.0065	+0.0070
IMD + Noise (A-weighted), %	+0.0060	+0.0064

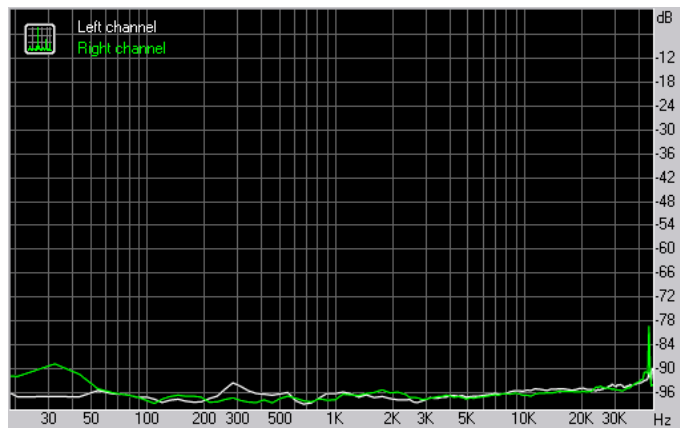
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Stereo crosstalk



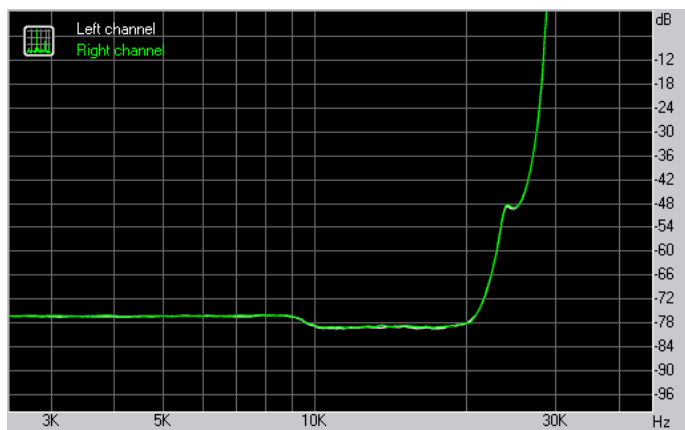
	Left	Right
Crosstalk at 100 Hz, dB	-83	-81
Crosstalk at 1000 Hz, dB	-88	-90
Crosstalk at 10000 Hz, dB	-88	-85

Stereo crosstalk



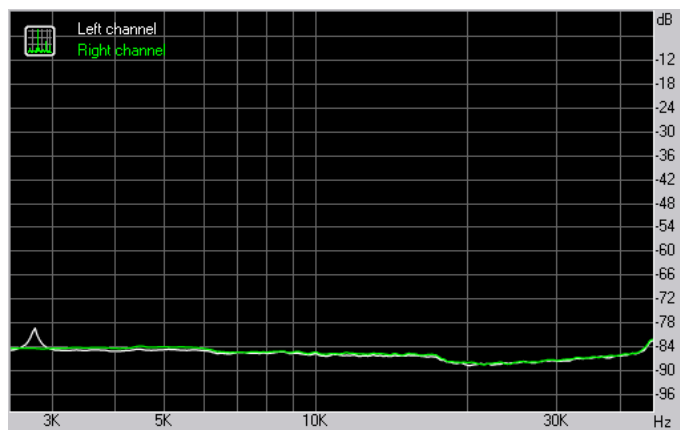
	Left	Right
Crosstalk at 100 Hz, dB	-96	-97
Crosstalk at 1000 Hz, dB	-95	-97
Crosstalk at 10000 Hz, dB	-95	-96

IMD (swept tones)



	Left	Right
IMD + Noise at 5000 Hz,	0.0154	0.0154
IMD + Noise at 10000 Hz,	0.0114	0.0118
IMD + Noise at 15000 Hz,	0.0114	0.0117

IMD (swept tones)



	Left	Right
IMD + Noise at 5000 Hz,	0.0058	0.0063
IMD + Noise at 10000 Hz,	0.0052	0.0054
IMD + Noise at 15000 Hz,	0.0049	0.0050

Este comparativo foi feito num Intel Celeron 600 com 256Mb de Ram.