

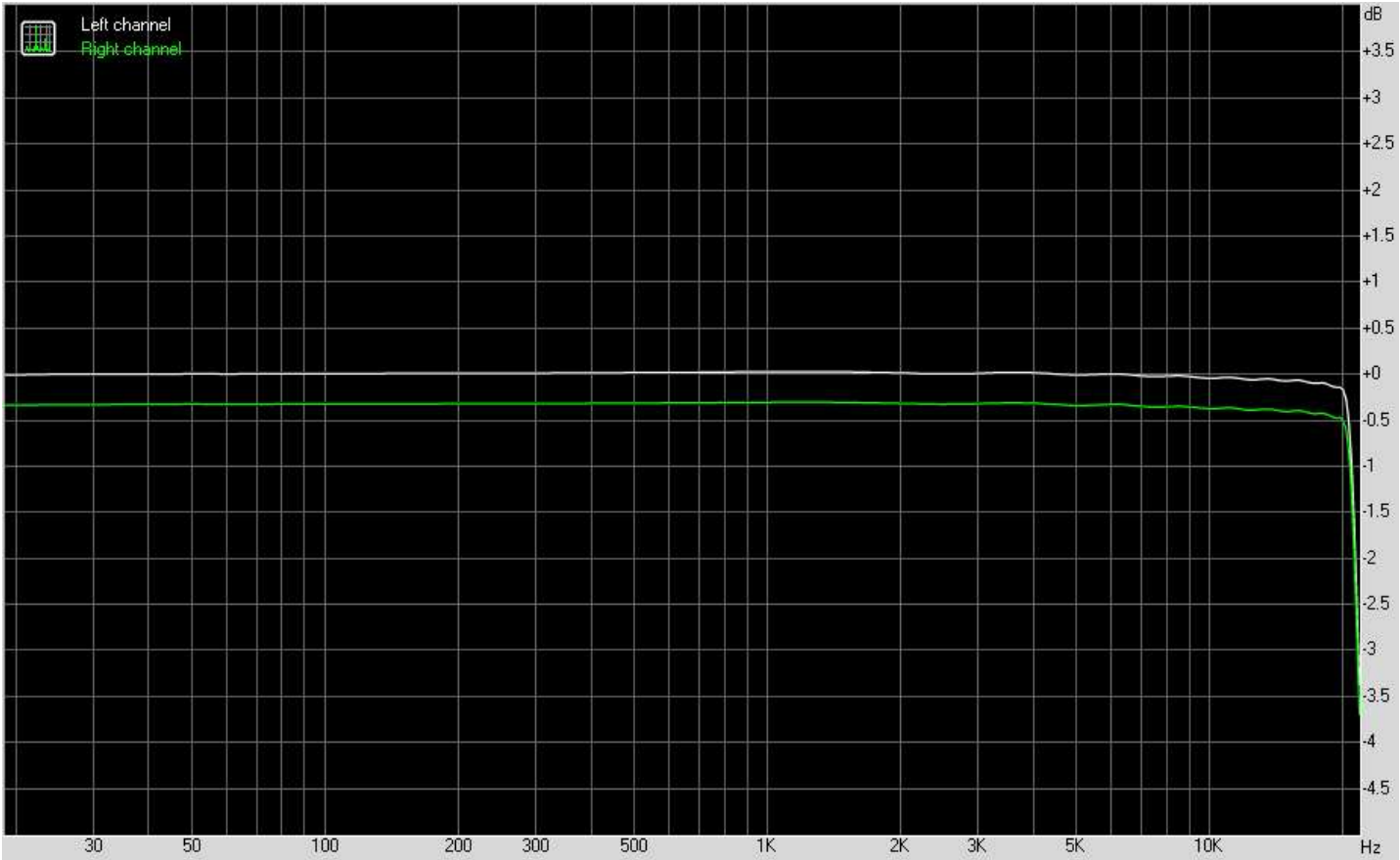
RightMark Audio Analyzer test report

Testing device	ESP32-MP
Sampling mode	24-bit, 44 kHz
Interface	
Testing chain	External loopback (line-out - line-in)
RMAA Version	6.4.5
20 Hz - 20 kHz filter	ON
Normalize amplitude	ON
Level change	-2.7 dB / -3.0 dB
Mono mode	OFF
Calibration singal, Hz	1000
Polarity	correct/correct

Summary

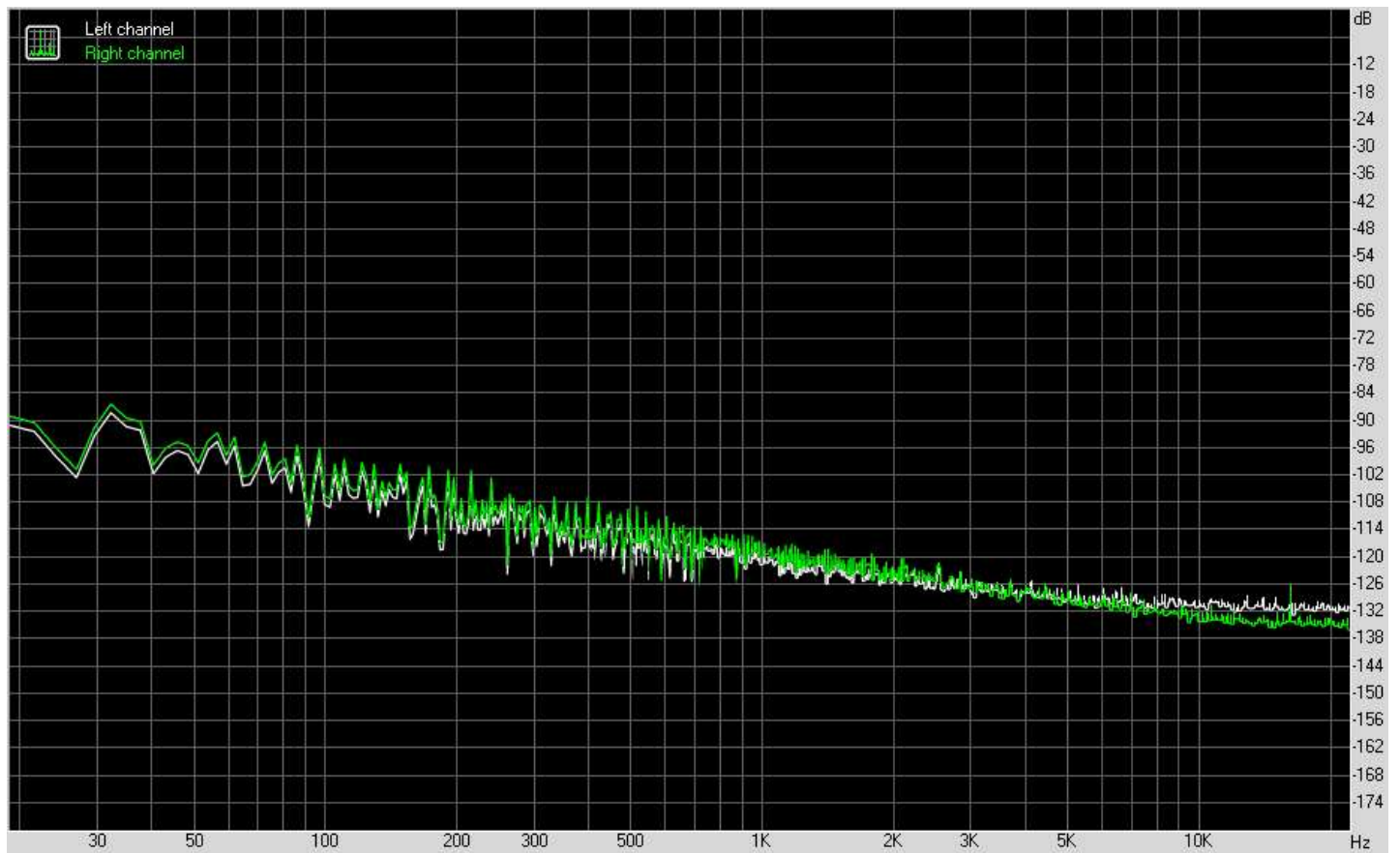
Frequency response (from 40 Hz to 15 kHz), dB	-0.31, -0.41	Excellent
Noise level, dB (A)	-93.5	Very good
Dynamic range, dB (A)	89.2	Good
THD, %	0.00604	Very good
THD + Noise, dB (A)	-80.3	Good
IMD + Noise, %	0.00965	Very good
Stereo crosstalk, dB	-88.7	Excellent
IMD at 10 kHz, %	0.016	Very good
General performance		Very good

Frequency response



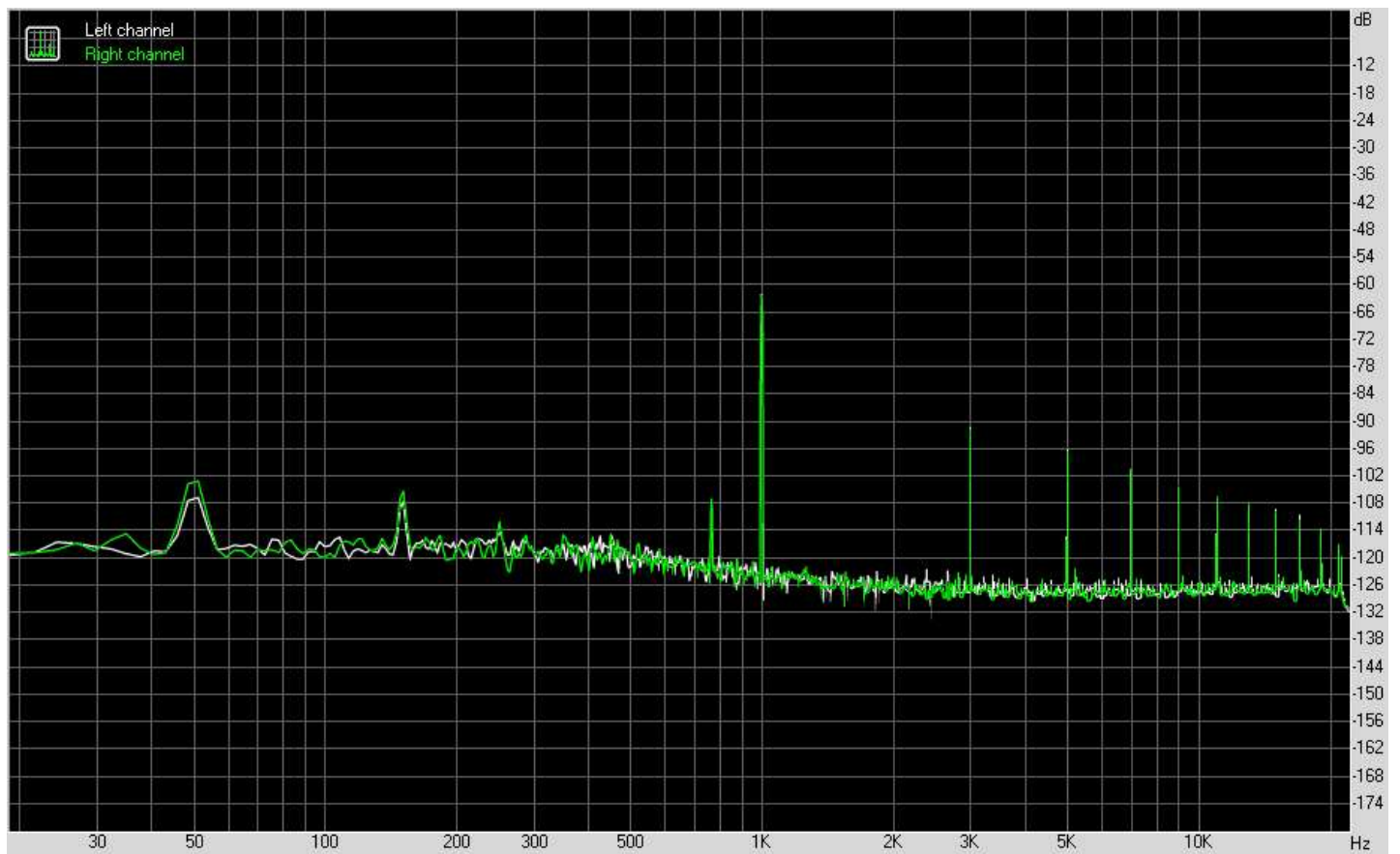
	Left	Right
From 20 Hz to 20 kHz, dB	-0.17, +0.03	-0.50, -0.31
From 40 Hz to 15 kHz, dB	-0.08, +0.03	-0.41, -0.31

Noise level



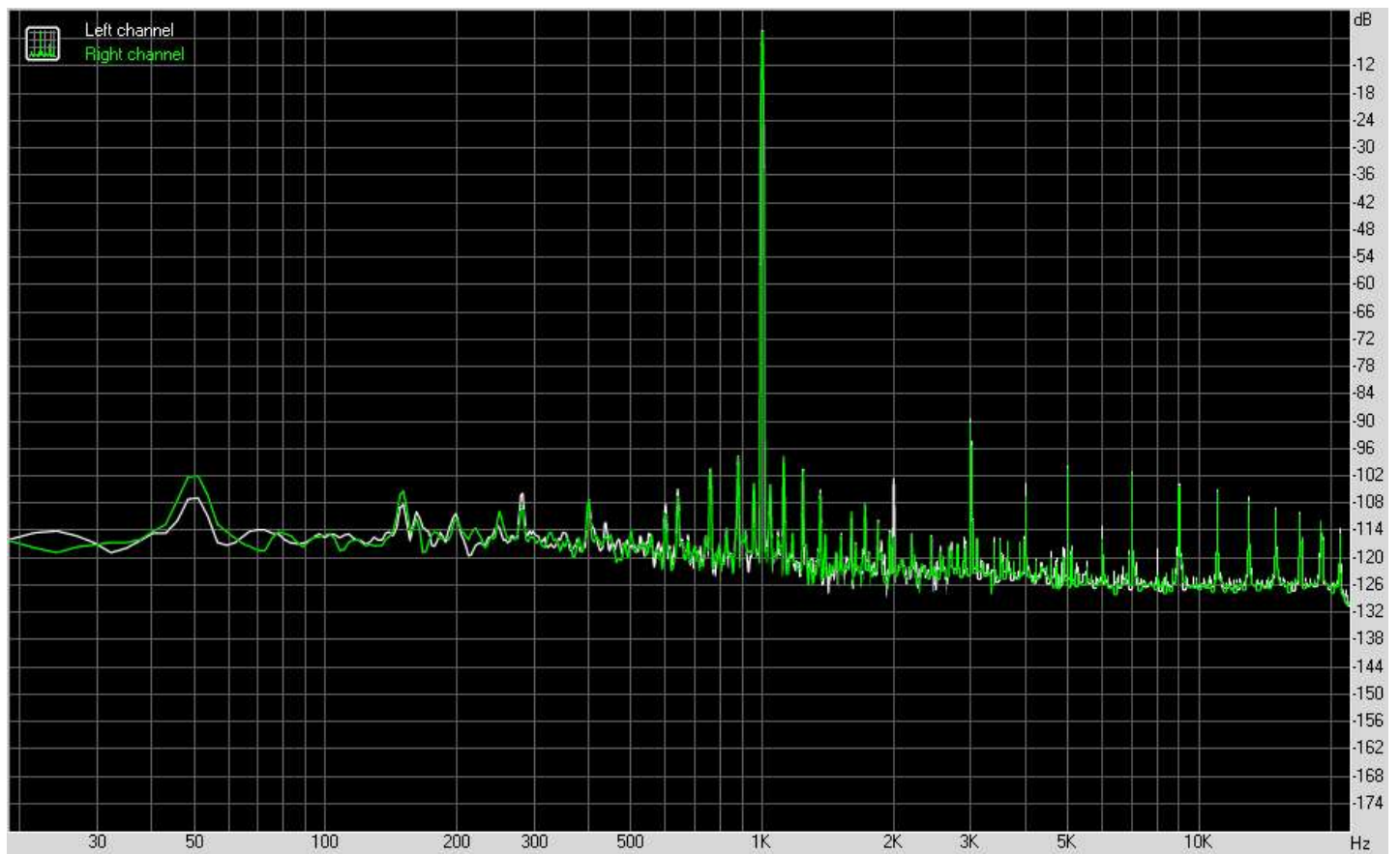
	Left	Right
RMS power, dB	-84.0	-82.2
RMS power (A-weighted), dB	-94.0	-93.0
Peak level, dB FS	-60.1	-67.2
DC offset, %	-0.0	-0.0

Dynamic range



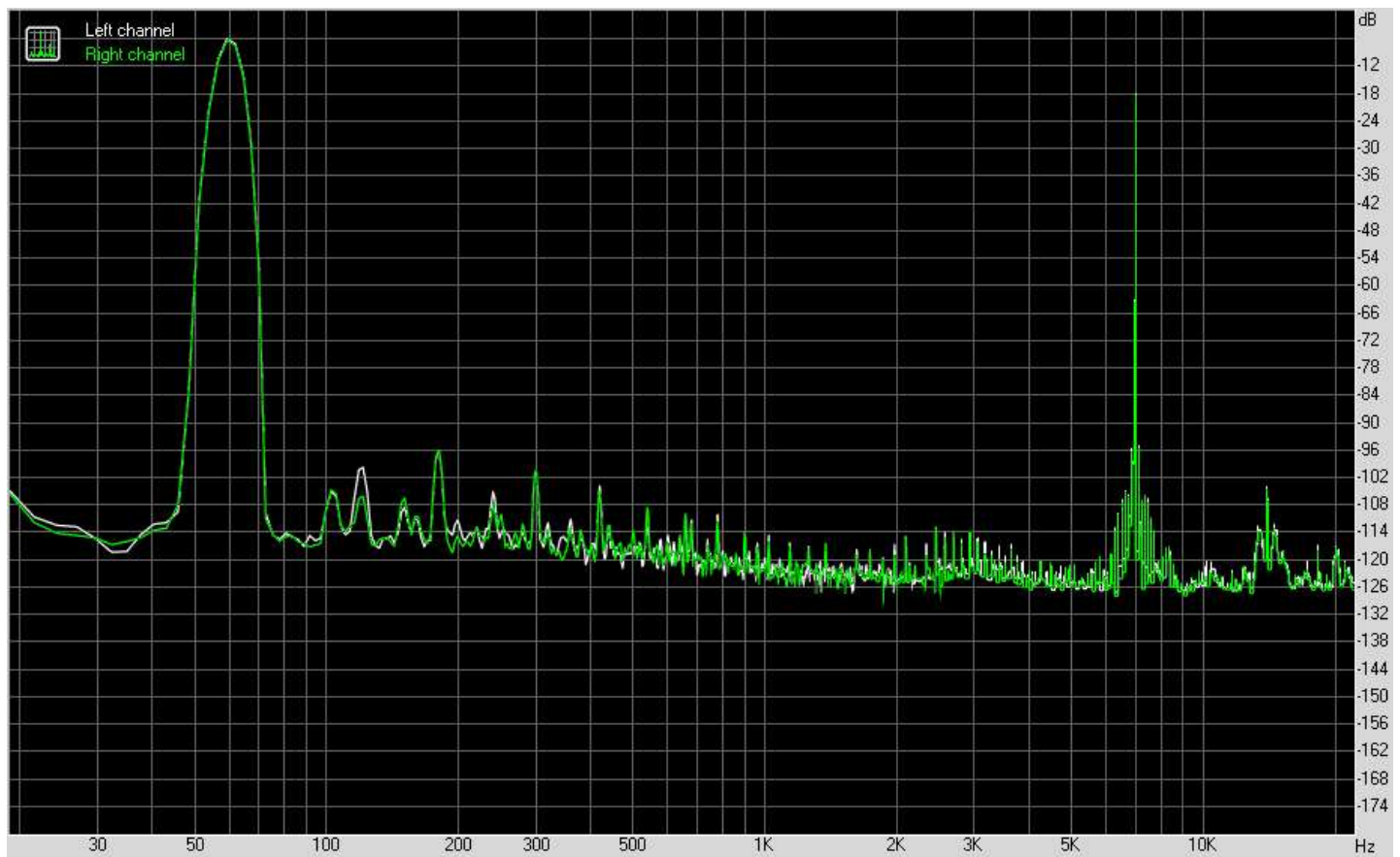
	Left	Right
Dynamic range, dB	+89.9	+90.0
Dynamic range (A-weighted), dB	+89.1	+89.3
DC offset, %	+0.00	+0.00

THD + Noise (at -3 dB FS)



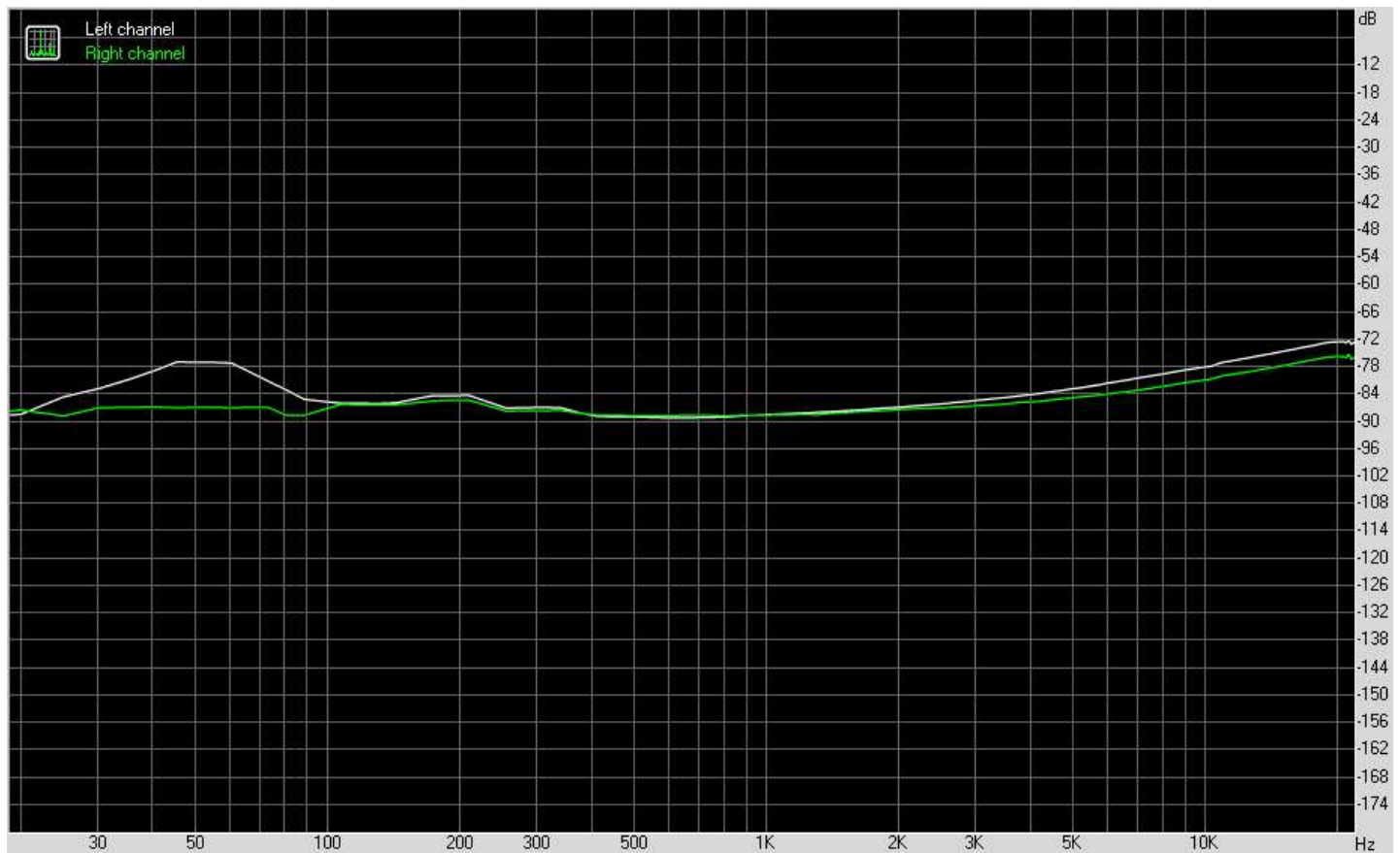
	Left	Right
THD, %	0.00625	0.00584
THD + Noise, %	0.00929	0.00912
THD + Noise (A-weighted), %	0.01049	0.01005

Intermodulation distortion

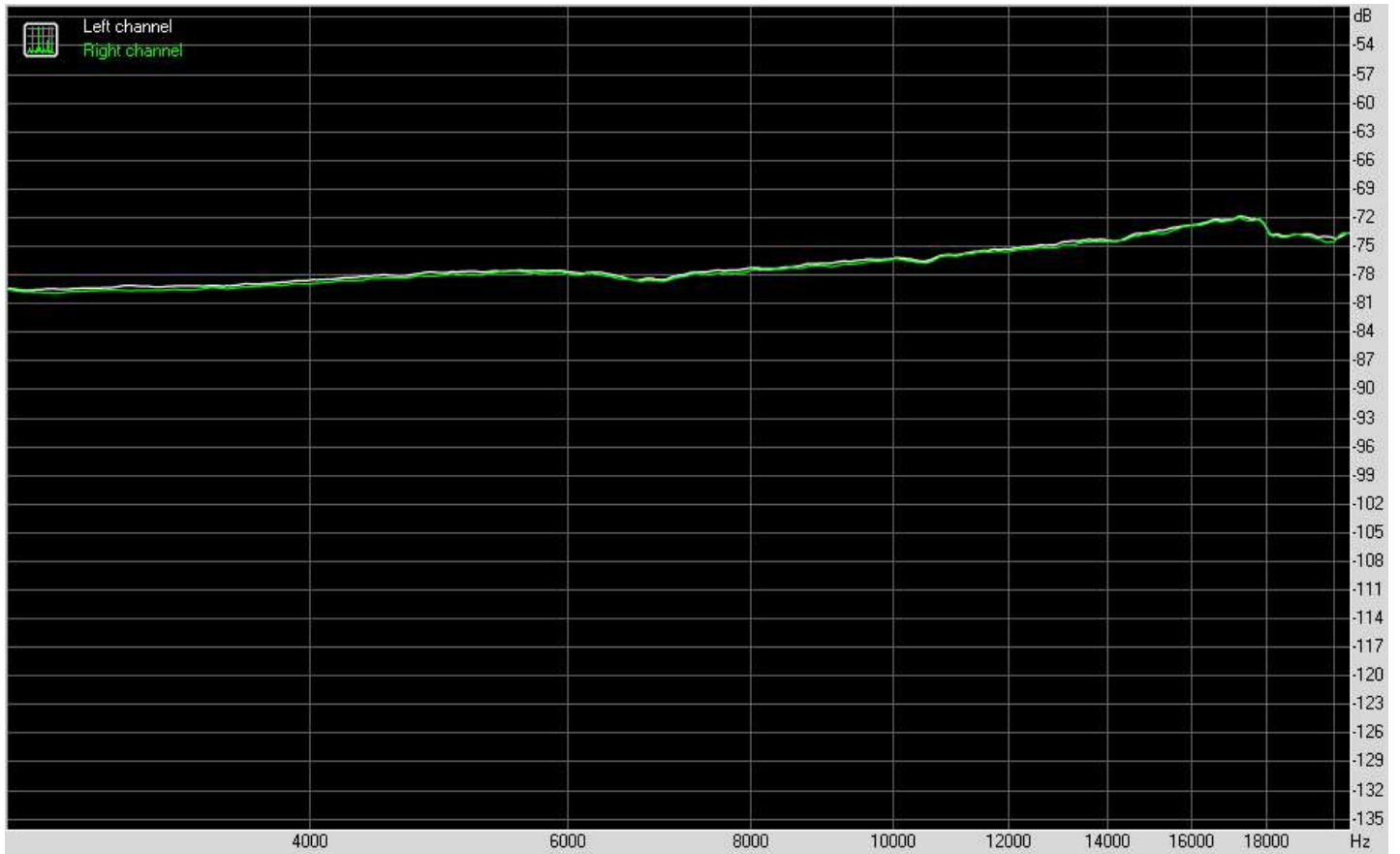


	Left	Right
IMD + Noise, %	0.00967	0.00963
IMD + Noise (A-weighted), %	0.00821	0.00806

Stereo crosstalk



	Left	Right
Crosstalk at 100 Hz, dB	-85	-86
Crosstalk at 1000 Hz, dB	-88	-88
Crosstalk at 10000 Hz, dB	-77	-80

IMD (swept tones)

	Left	Right
IMD + Noise at 5000 Hz,	0.01307	0.01272
IMD + Noise at 10000 Hz,	0.01535	0.01518
IMD + Noise at 15000 Hz,	0.02114	0.02075