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Rightmark Audio Analyzer

ASRock B550 Steel Legend (ALC1220)

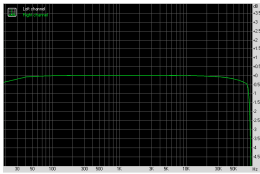
RightMark Audio Analyzer test report

Testing device	[RM2] Realtek ALC223
Sampling mode	24 bit, 192 kHz
Interface	HW
Testing chain	External loopback (In-out - line in)
RM2 version	8.4.0.0
20 Hz - 20 kHz filter	OFF
Normalise amplitude	YES
Level change	-0.2 dB / -0.2 dB
Mask mode	OFF
Calibration offset, Hz	1000
Pinity	seems correct

Summary

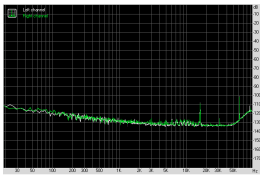
Frequency response (from 40 Hz to 13 kHz), dB	+0.00, -0.08	Excellent
Power level, dB (A)	-90.0	Excellent
Dynamic range, dB (A)	86.0	Excellent
THD, %	0.00033	Very good
THD + noise, dB (A)	-68.5	Good
THD + noise, %	0.025	Good
Stereo crosstalk, dB	-60.7	Excellent
THD at 10 kHz, %	0.007	Good
General performance		Very good

Frequency response



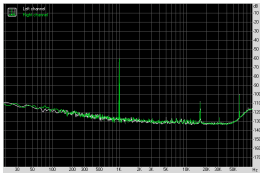
From 20 Hz to 20 kHz, dB	-0.36, +0.00, -0.06, +0.00
From 40 Hz to 13 kHz, dB	-0.06, +0.00, -0.08, +0.00

Noise level



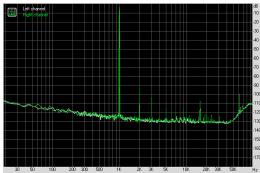
RMS power, dB	Left: -85.0, Right: -85.0
RMS power (A-weighted), dB	Left: -84.4, Right: -84.7
Peak level, dB FS	Left: -72.1, Right: -71.9
DC offset, %	0.0, 0.0

Dynamic range



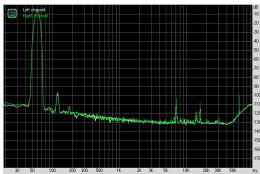
Dynamic range, dB	Left: +85.0, Right: +85.0
Dynamic range (A-weighted), dB	Left: +84.4, Right: +84.8
DC offset, %	-0.00, -0.00

THD + Noise (at -3 dB FS)



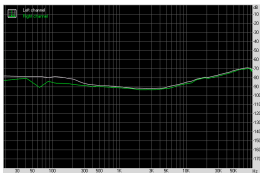
THD, %	Left: 0.00030, Right: 0.00045
THD + noise, %	Left: 0.01940, Right: 0.01926
THD + noise (A-weighted), %	Left: 0.00989, Right: 0.00992

Intermodulation distortion



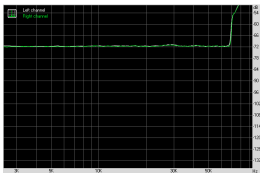
IMD + noise, %	Left: 0.01920, Right: 0.01976
IMD + noise (A-weighted), %	Left: 0.00935, Right: 0.00962

Stereo crosstalk



Crosstalk at 100 Hz, dB	Left: -78, Right: -84
Crosstalk at 1000 Hz, dB	Left: -69, Right: -90
Crosstalk at 10000 Hz, dB	Left: -64, Right: -65

IMD (except tones)



IMD + noise at 8000 Hz, %	Left: 0.00945, Right: 0.01576
IMD + noise at 10000 Hz, %	Left: 0.01713, Right: 0.01693
IMD + noise at 15000 Hz, %	Left: 0.02717, Right: 0.03068

Gigabyte 990X Gaming SLI (ALC1150)

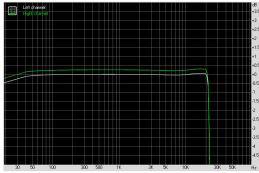
RightMark Audio Analyzer test report

Testing device	YINCE Wave Mapper - GalaxyS999 Gaming B3 (ALC1190)
Sampling rate	24 bit, 192 kHz
Interface	YINCE
Testing chain	External feedback (See out - See in)
RYMA Version	1.6.3
20 Hz - 20 kHz filter	OFF
Normalise amplitude	ON
Level offset	0.2 dB / 0.0 dB
Phase mode	OFF
Calculation length, Hz	1000
Polarity	correct/correct

Summary

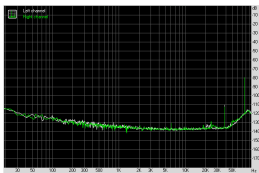
Frequency response (from 40 Hz to 15 kHz), dB	+0.06, -0.11	Very good
Noise level, dB (A)	-104.3	Excellent
Dynamic range, dB (A)	104.2	Excellent
THD, %	0.00274	Very good
THD + noise, dB (A)	-78.8	Average
THD + noise, %	0.023	Good
Stereo crosstalk, dB	-91	Excellent
THD at 10 kHz, %	-9.1	Excellent
General performance	0.027	Very good

Frequency response



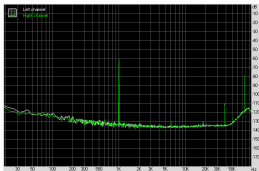
Left	Right
From 20 Hz to 20 kHz, dB	-0.45, -0.39, -0.21, -0.31
From 40 Hz to 15 kHz, dB	-0.11, -0.06, -0.14, -0.31

Noise level



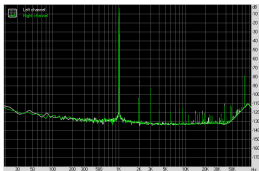
Left	Right
RMS power, dB	-79.1, -79.3
RMS power (A-weighted), dB	-104.1, -104.4
Peak level, dB FS	-67.3, -68.1
DC offset, %	-0.0, -0.0

Dynamic range



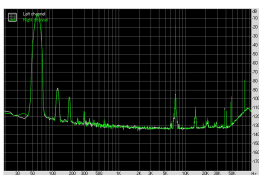
Left	Right
Dynamic range, dB	-79.4, -79.0
Dynamic range (A-weighted), dB	-104.0, -104.0
DC offset, %	-0.00, -0.00

THD + Noise (at -3 dB FS)



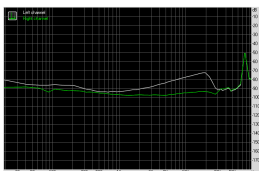
Left	Right
THD, %	0.00272, 0.00274
THD + noise, %	0.02274, 0.02284
THD + noise (A-weighted), %	0.02222, 0.02278

Intermodulation distortion



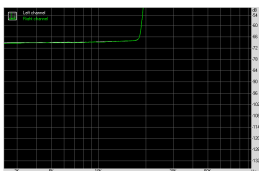
Left	Right
IMD + noise, %	0.02318, 0.02317
IMD + noise (A-weighted), %	0.02292, 0.02342

Stereo crosstalk



Left	Right
Crosstalk at 100 Hz, dB	-85, -91
Crosstalk at 1000 Hz, dB	-91, -90
Crosstalk at 10000 Hz, dB	-76, -94

IMD (sweep tones)



Left	Right
IMD + noise at 5000 Hz, %	0.02389, 0.02501
IMD + noise at 10000 Hz, %	0.02738, 0.02677
IMD + noise at 15000 Hz, %	0.02297, 0.02444

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