



TEST EQUIPMENT

Test Environment	Hemi-Anechoic Chamber with 6 dB(A) noise floor
Conditions	25(±2) degrees Celsius, 40-50% humidity
Sound Analyzer	Bruel & Kjaer 2270-S G4 & 2250-L G4
Microphone	Bruel & Kjaer Type 4955-A
Mic Calibrator	Bruel & Kjaer Type 4231
Data Logger	Picoscope TC-08

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Evaluation Report

Fractal Design Define R6

TECHNICAL SPECIFICATIONS TABLE

Brand	Fractal Design
Product Name	Define R6
Type	Midi Tower
Dimensions(LxWxH)	543 x 233 x 465mm
Motherboard Support	Mini-ITX, Micro-ATX, ATX, E-ATX (up to 285mm wide)
Removable Motherboard Tray	No
Front Door/Cover	Yes
Materials Body	Steel, Plastic, Tempered Glass, Sound Dampening Material
Materials Side Panel	Left: Tempered Glass Right: Sound-Dampened Steel
Expansion Slots	7x (plus two vertical)
Drive Bays	5.25": 1x External (Removable) 3.5" / 2.5" : 6x Internal 2.5" : 2x Internal
I/O Panel	2x USB 3.0, 2x USB 2.0, 1x audio jack, 1x mic jack, Power button, Reset button
Pre-installed Fan(s)	Front: 2x 140mm (1000 RPM) Rear: 1x 140mm (1000 RPM)
Fan Support	Front: 3x 120mm / 2x 140mm Top: Standard layout: 3x 120mm / 2x 140mm, Open layout: 3x 120 / 140mm Rear: 1x 120 / 140mm, Bottom: 2x 120 / 140mm
Fan Bearing Type	Enhanced Sleeve Bearing
Fan Power Connector	3-Pin
Fan/LED Controller	Fan Controller (six 3-pin & three PWM)
Radiator Support	Front: 120 / 240 / 360mm, 140 / 280mm Top: Standard layout: 120 / 240 / 360mm, Open layout: 120 / 240 / 360mm - 140 / 280 / 420mm Rear: 120mm, Bottom: 120 / 240mm, 140 / 280mm
CPU Cooler Height (Max)	185mm
VGA Length (Max)	440mm
PSU Length (Max)	300mm
Behind MB Tray Clearance	23mm
Dust Filters	Top, Front, Bottom
PSU Support	Bottom Mount, ATX
Weight	12.4 kg
Warranty	2-years

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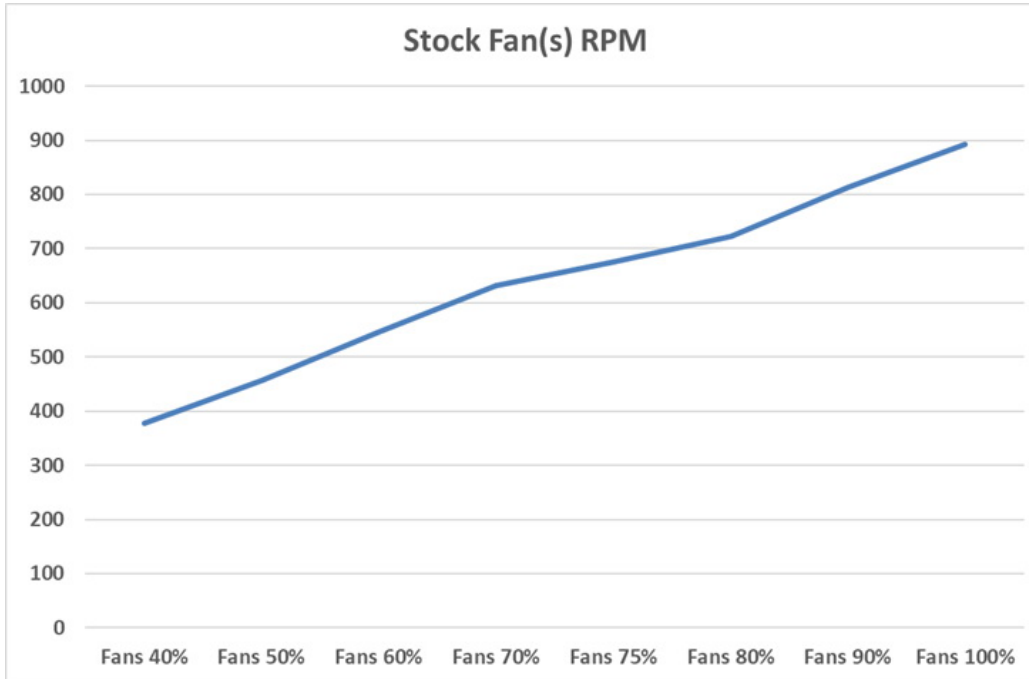
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PAGE 2/9

Evaluation Report

Fractal Design Define R6

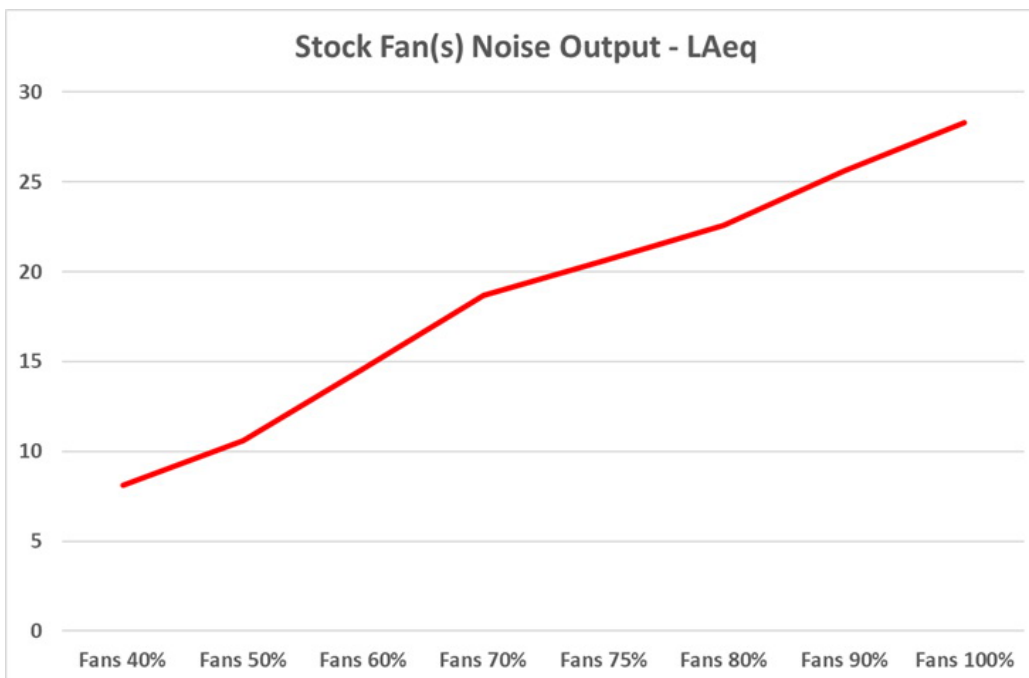
Stock Fan(s) RPM



INFO

Stock Fan Speed from 40% to 100%

Stock Fan(s) Noise Output - LAeq



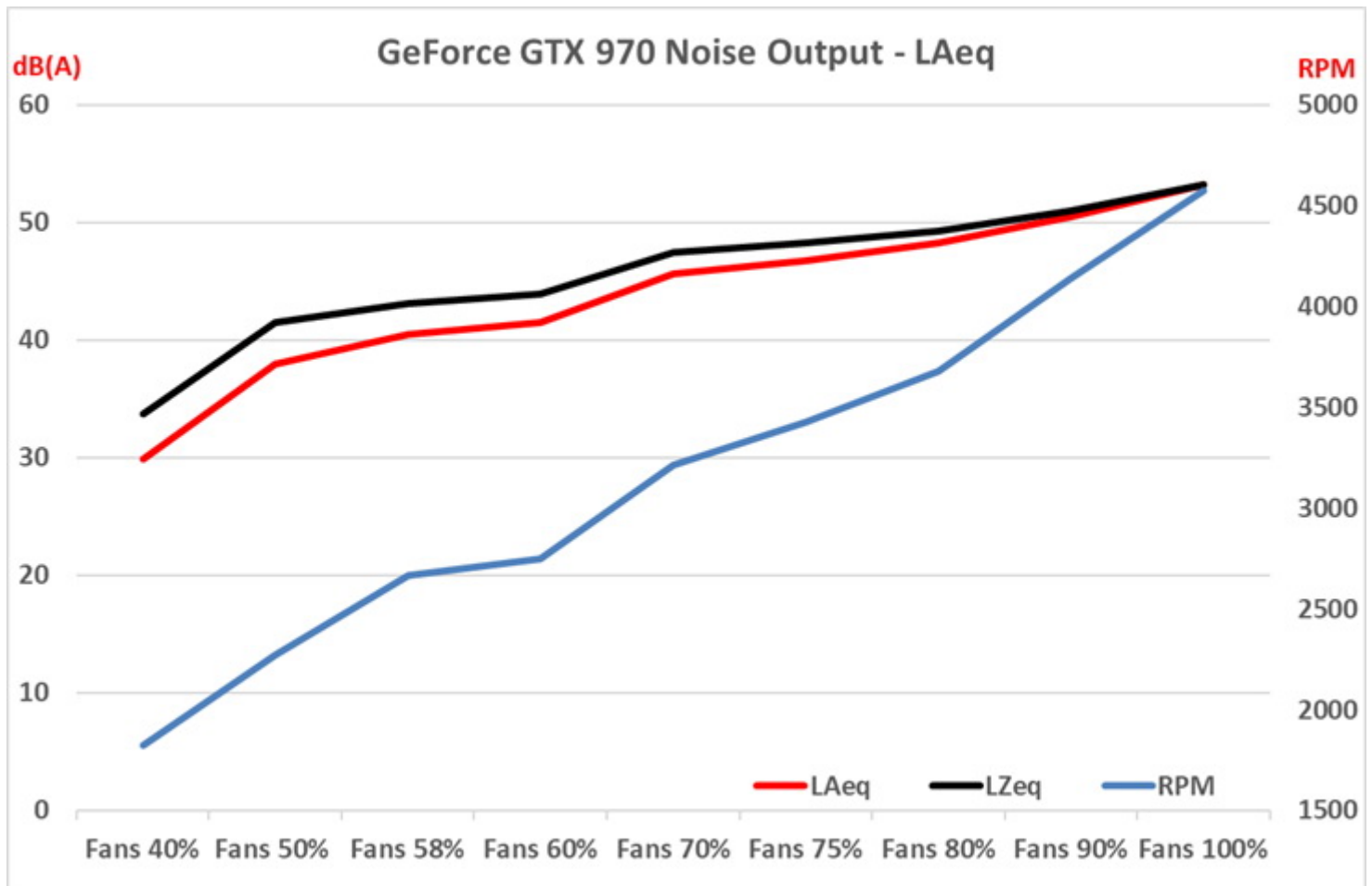
INFO

Stock Fan Noise Output from 40% to 100%

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GPU Fan(s) Noise Output - LAeq



NVIDIA GeForce GTX 970 Noise Output from 40% to 100% Fan Speed

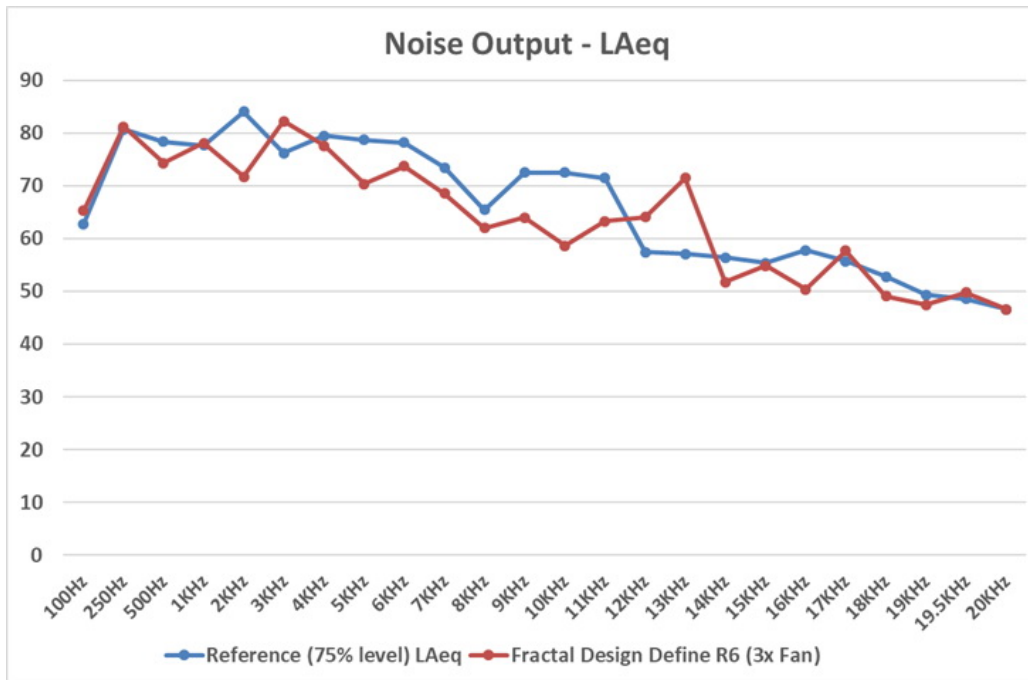
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Fractal Design Define R6

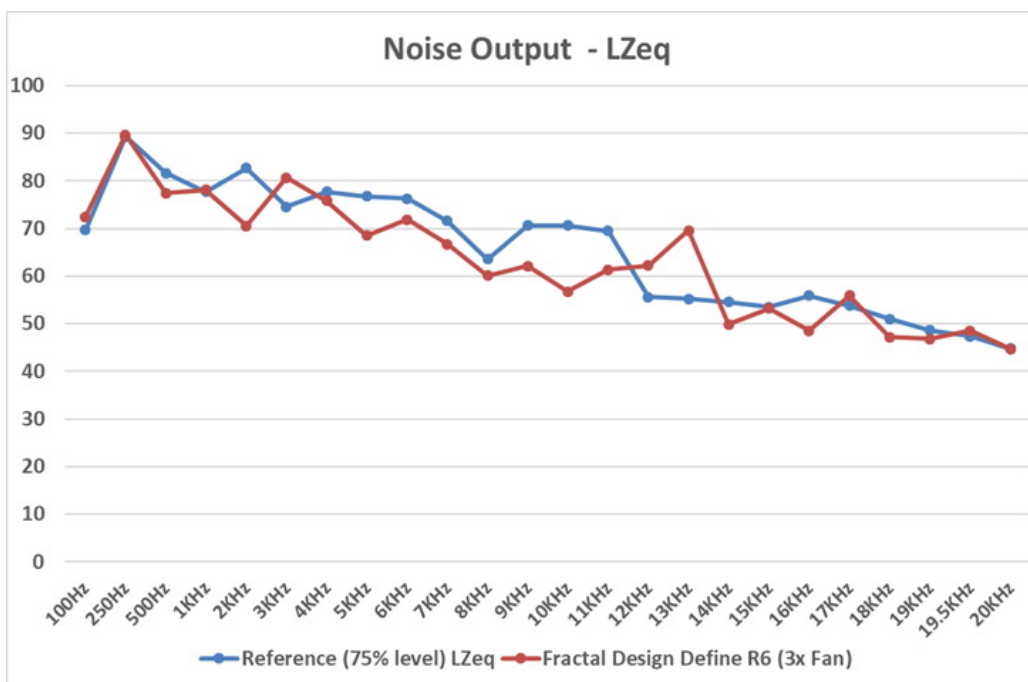
Noise Output LAeq - Test Tones



INFO

Noise Output in DB(A) from 100 Hz to 20 kHz

Noise Output LZeq - Test Tones



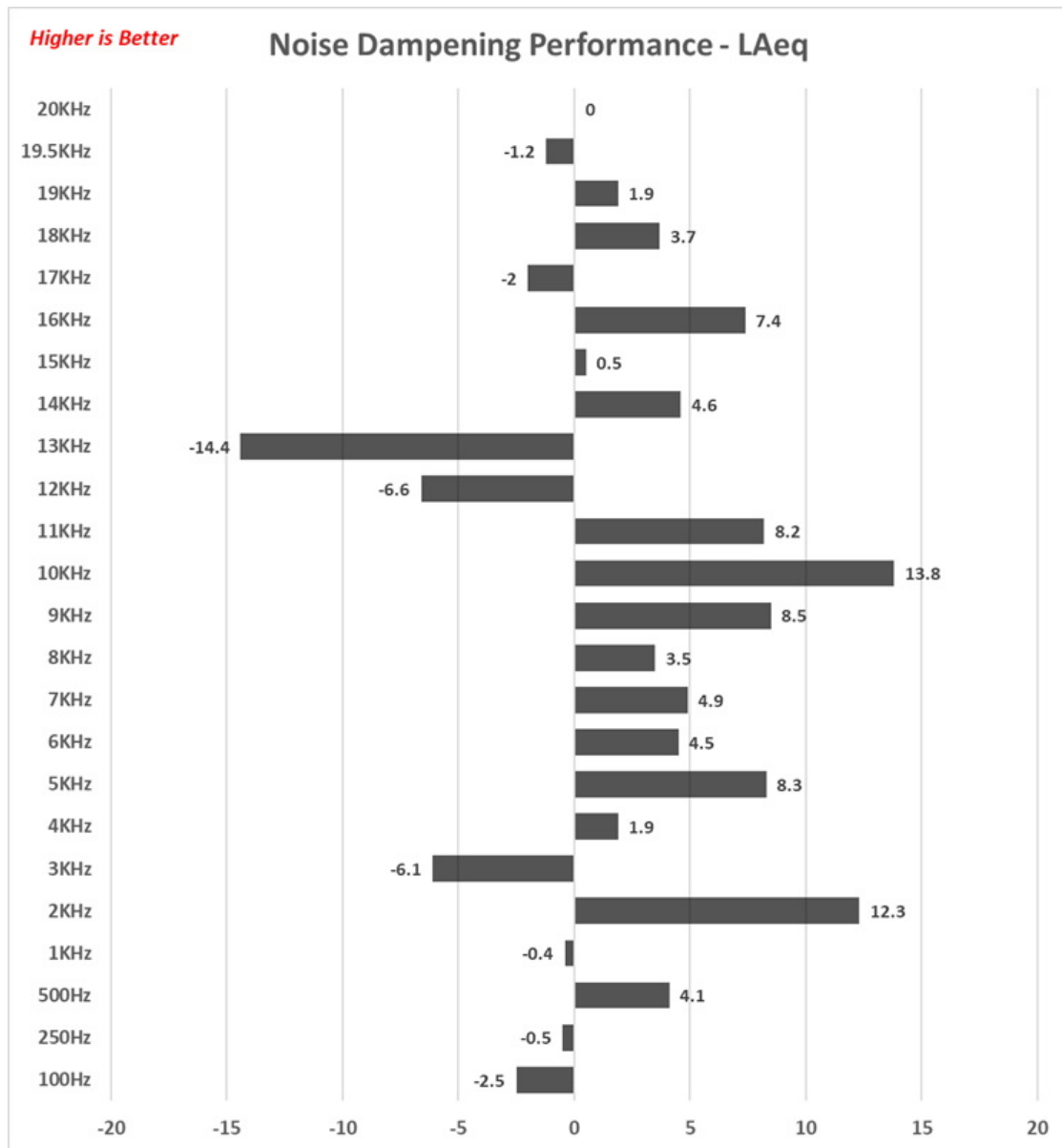
INFO

Noise Output in DB(Z) from 100 Hz to 20 kHz

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Noise Dampening Performance LAeq - Test Tones

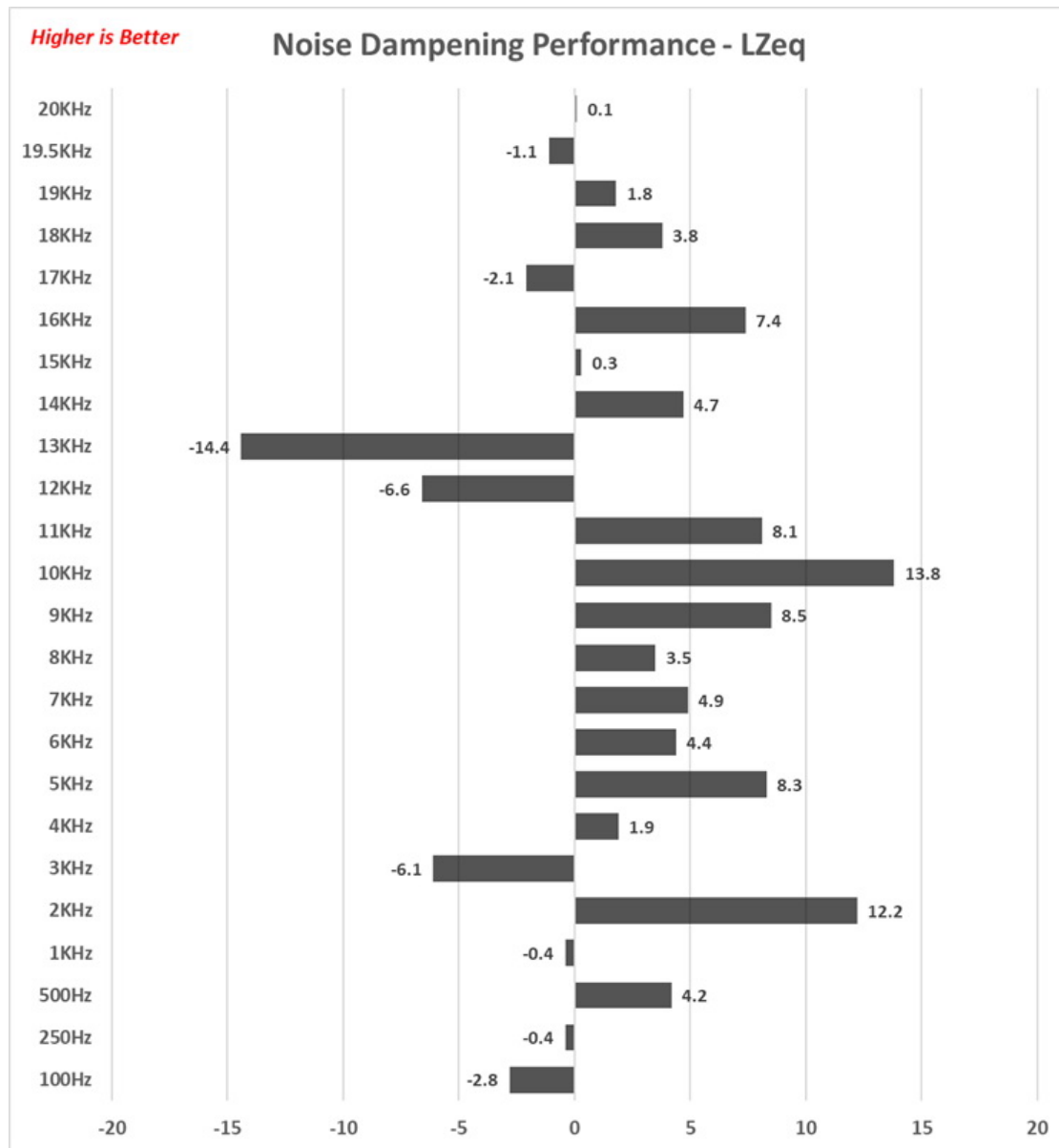


Noise Dampening Performance in dB(A) from 100 Hz to 20 kHz

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Noise Dampening Performance LZeq - Test Tones



Noise Dampening Performance in dB(Z) from 100 Hz to 20 kHz

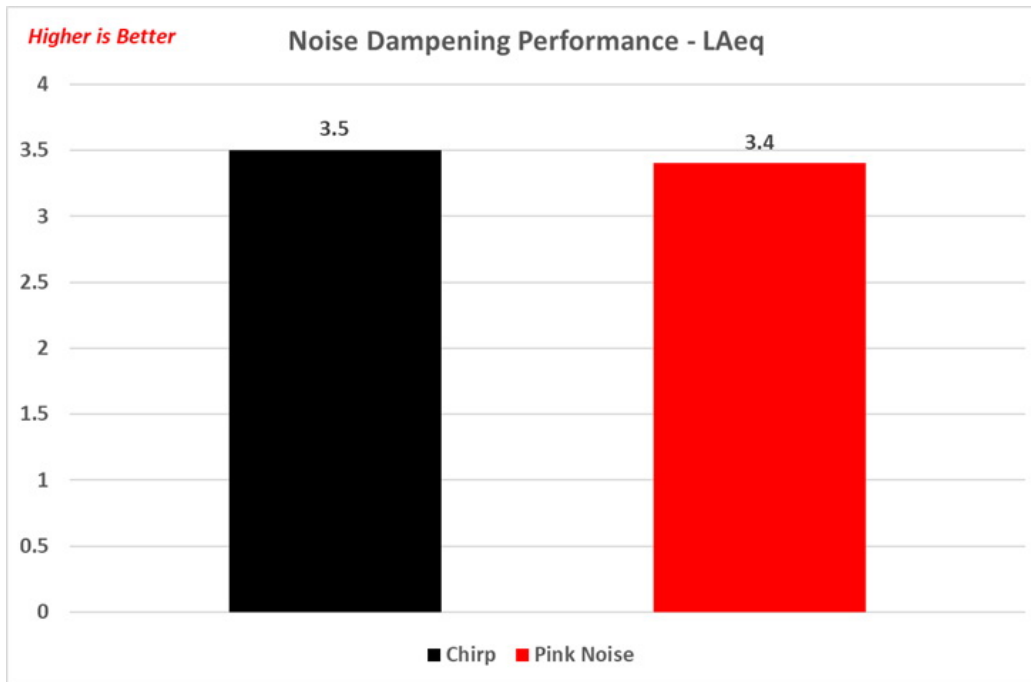
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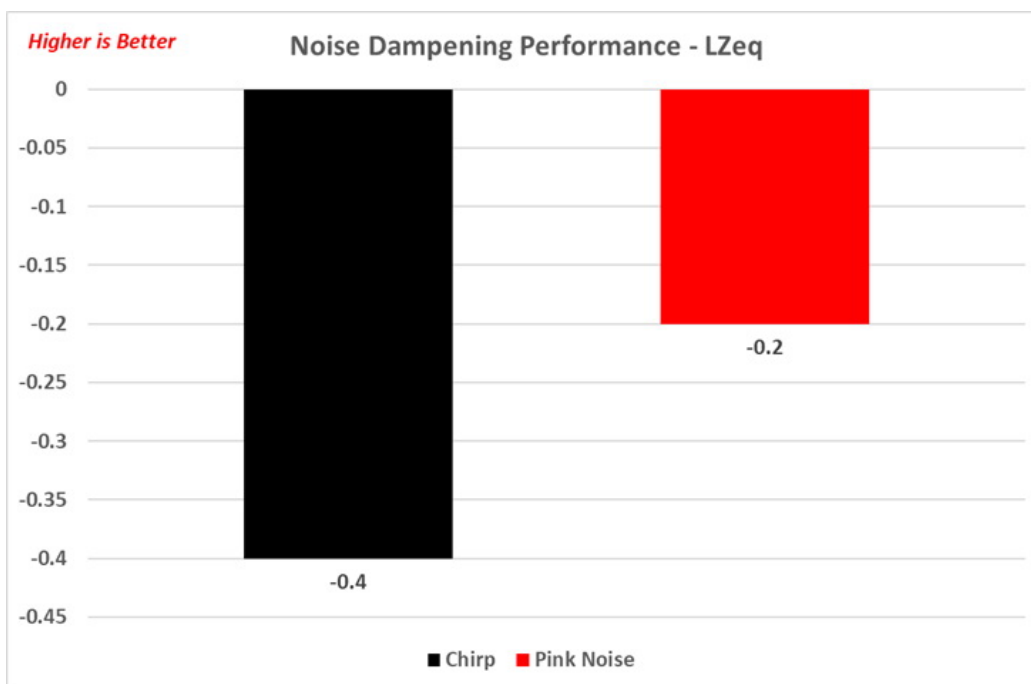
Noise Dampening Performance LAeq - Pink & Chirp



INFO

Chirp & Pink Noise Noise Dampening Performance (dB[A])

Noise Dampening Performance LZeq - Pink & Chirp



INFO

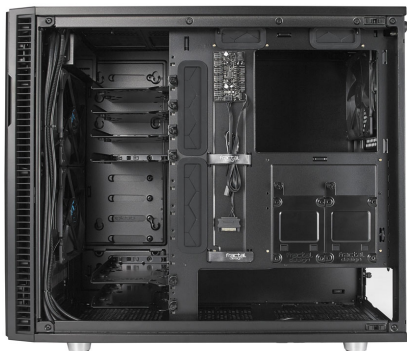
Chirp & Pink Noise Noise Dampening Performance (dB[Z])

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Case Photo #2



QR Code

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PAGE 9/9