

# Aurora (n) Performance Measurements

## Test Setup

- Aurora(n) with two AIO8E modules and LM-DIG (final production boards)
- Analyzer: Ap SYS-2722, S/N SYS2-32376

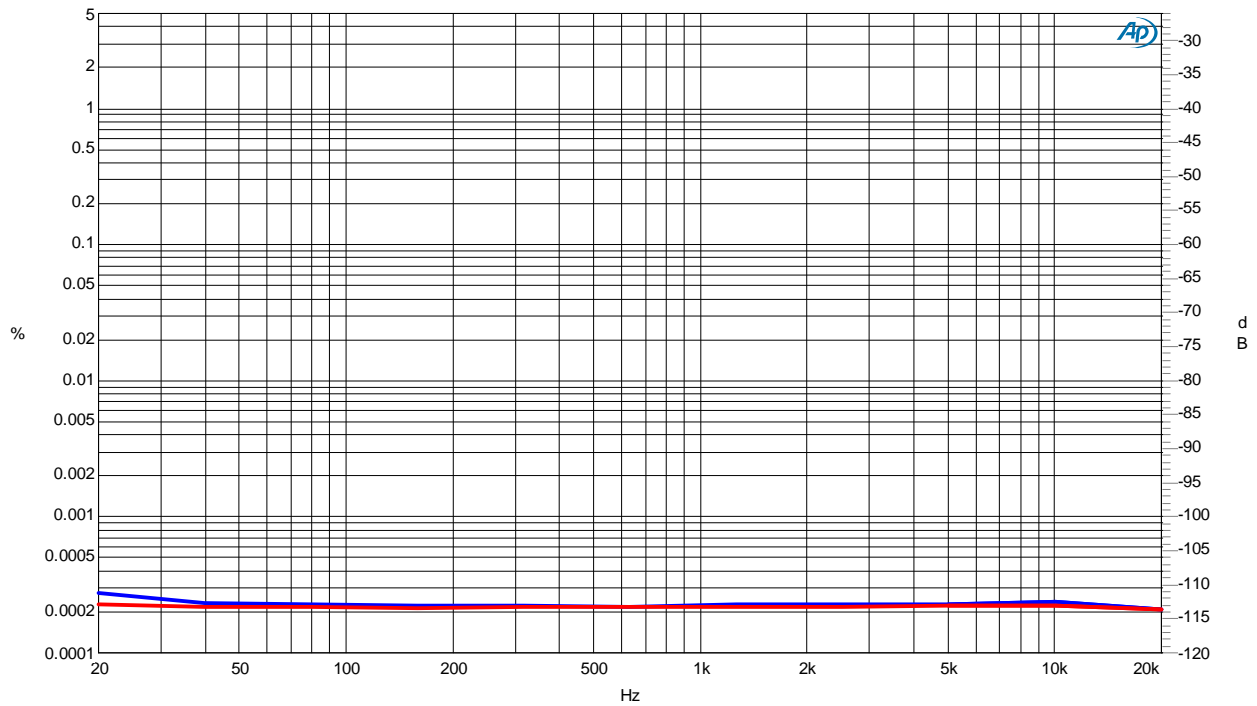
## A/D THD+N Ratio vs Frequency

Sample Rate: 44.1 kHz    Signal Level: -1dBFS    Trim: +4 dBu    Channels: 1/2  
 Analyzer BW 22Hz – 20kHz    Filter: None    Output impedance: 40 ohms

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AIDO THD+N RATIO VS FREQUENCY

10/11/17 14:34:59



Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Solid	3	DSP Anlr.THD+N Ratio A	Left	
1	3	Red	Solid	3	DSP Anlr.THD+N Ratio B	Left	

A-D THD+N VS FREQ SINGLE CHANNEL +4.at2c

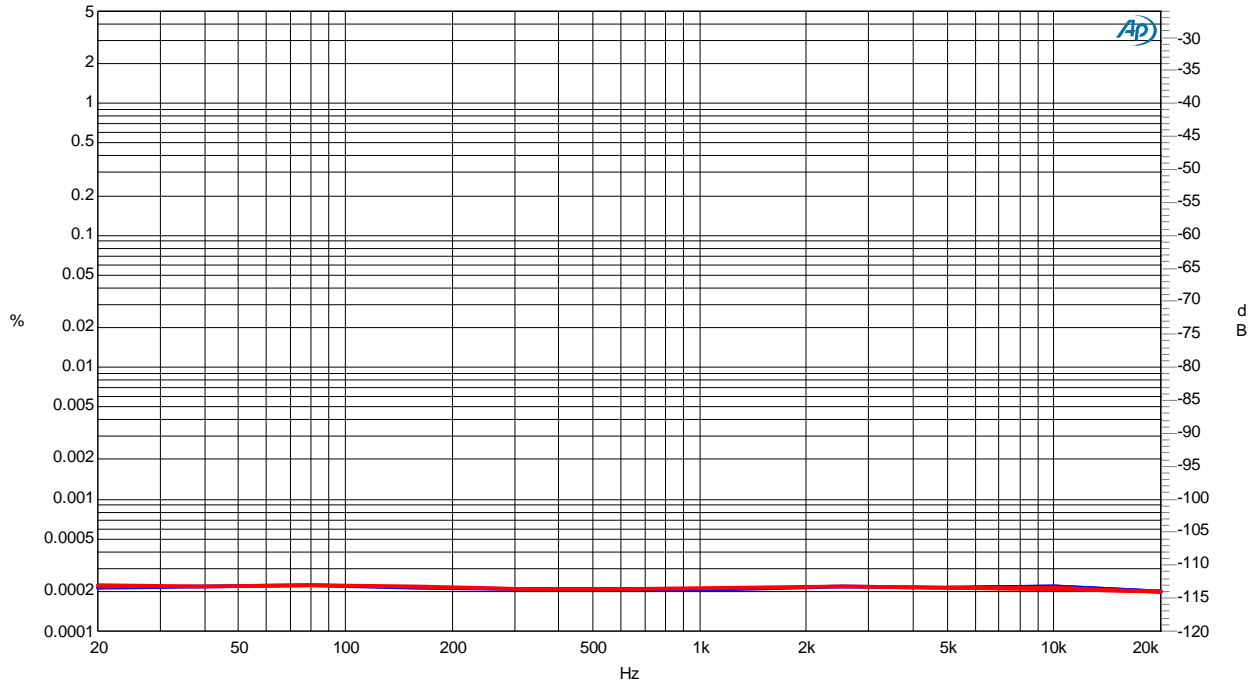
## A/D THD+N Ratio vs Frequency

Sample Rate: 48 kHz    Signal Level: -1dBFS    Trim: +4 dBu    Channels: 1/2  
 Analyzer BW: 22Hz – 20kHz    Filter: None    Output impedance: 40 ohms

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AIDO THD+N RATIO VS FREQUENCY

10/11/17 14:48:02



Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Solid	3	DSP Anlr.TH+D+N Ratio A	Left	
1	2	Red	Solid	1	DSP Anlr.TH+D+N Ratio A	Right	
1	3	Red	Solid	3	DSP Anlr.TH+D+N Ratio B	Left	

A-D THD+N VS FREQ SINGLE CHANNEL +4.at2c

## A/D Dynamic Range

Sample Rate: 48 kHz    Signal Level: -60dBFS    Signal Frequency: 1 kHz Trim: +4 dBu    Channels: 1/2  
 Analyzer BW: 22Hz – 22kHz    Filter: see below    Output impedance: 40 ohms

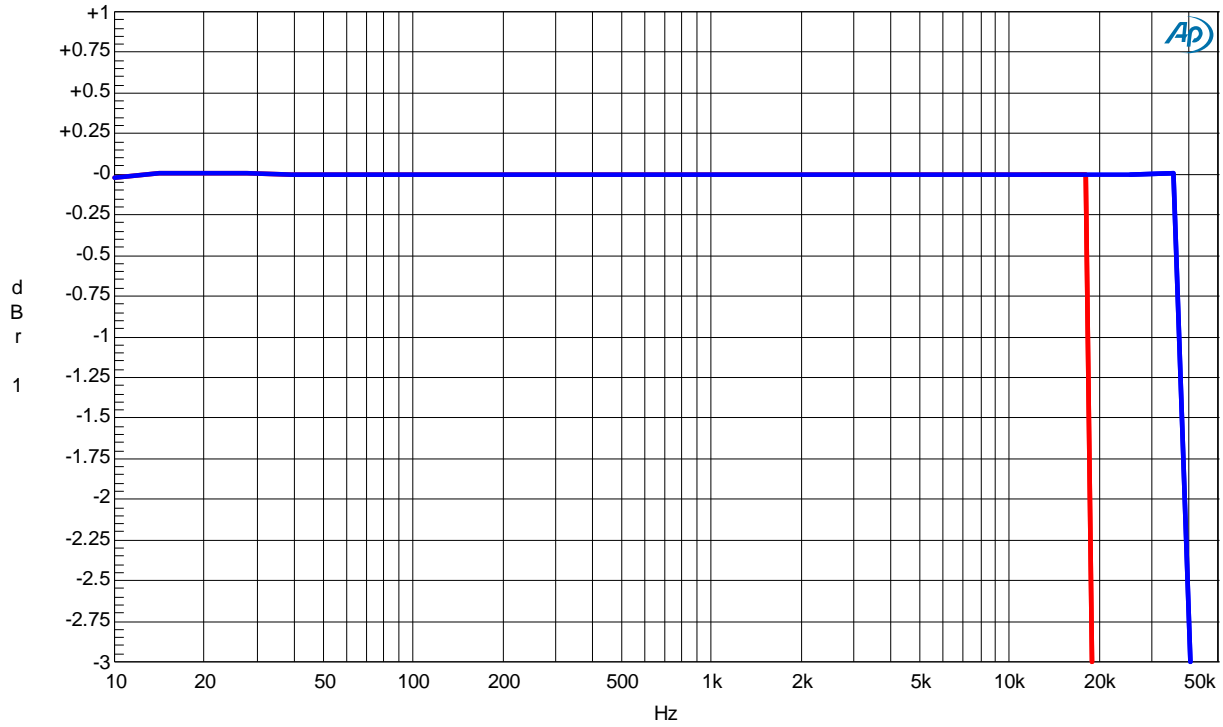
**Channel 1: 119.3dB A-weighted, 117.2dB 22Hz – 20kHz**

**Channel 2: 119.3dB A-weighted, 117.1dB 22Hz – 20kHz**

# A/D Frequency Response at 48 kHz and 96 kHz Sample Rates

Sample Rate: 48 kHz / 96kHz    Signal Level: -1dBFS    Trim: +4 dBu    Channel: 1  
 Analyzer BW: <10Hz – Fs/2    Output impedance: 40 ohms

Lynx Studio Technology    A-D FREQUENCY RESPONSE 48kHz and 96    10/11/17 15:10:42  
 kHz Sample Rate



Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Red	Solid	3	DSP Anlr.Level A\Normalize	Left	48 kHz
2	1	Blue	Solid	3	DSP Anlr.Level A\Normalize	Left	96 kHz

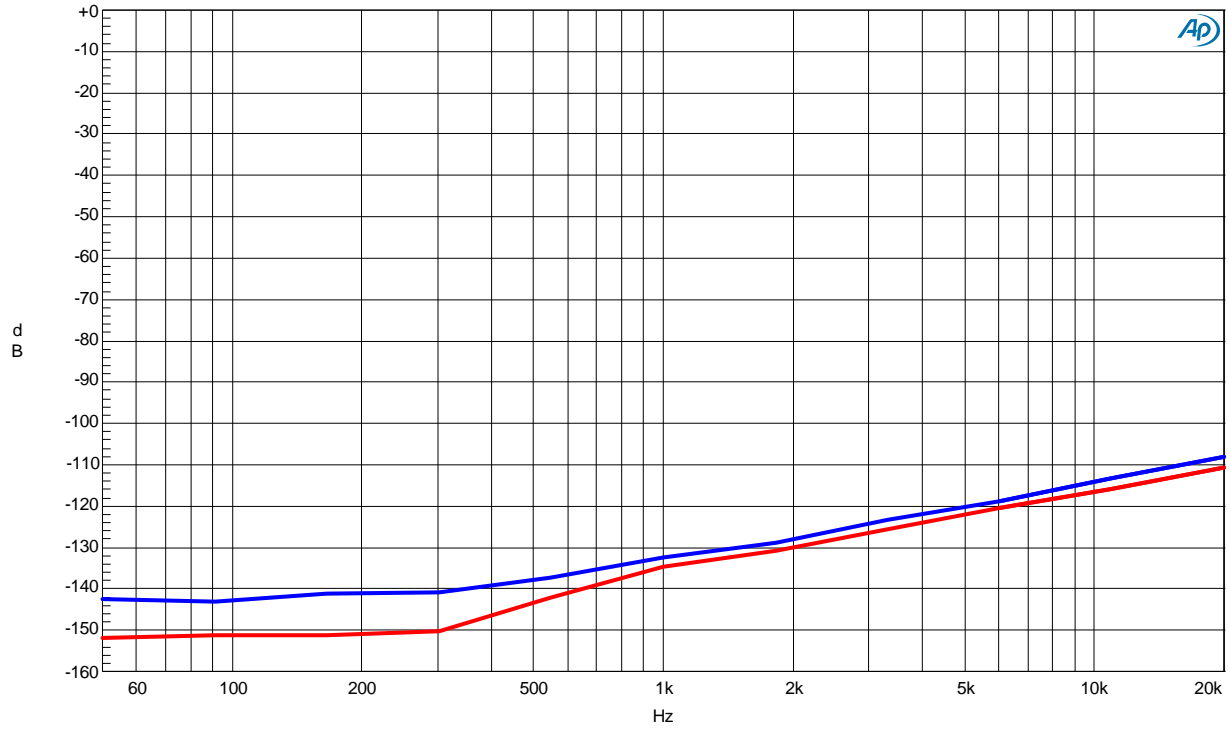
19 dBu, 96kHz

A-D FREQ RESP.at27

# A/D Crosstalk

Sample Rate: 48 kHz    Signal Level: -1dBFS    Trim:+4 dBu    Channel: 1/2  
 Analyzer BW: <10Hz – Fs/2    Filter: Narrow    Output impedance: 40 ohms

Lynx Studio Technology    A-D CROSSTALK or SEPARATION VS FREQUENCY    10/11/17 15:27:55



Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Solid	3	DSP Anlr.Crosstalk B	Left	
1	2	Red	Solid	3	DSP Anlr.Crosstalk A	Left	

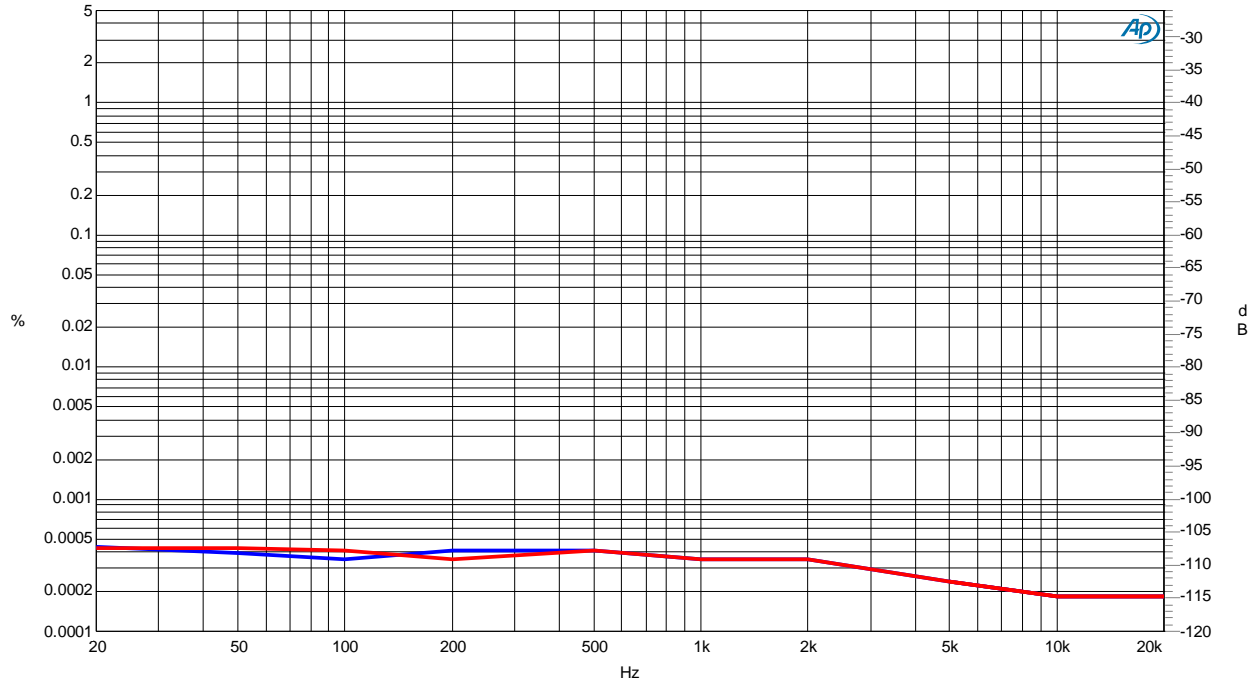
## D/A THD+N Ratio vs Frequency

Sample Rate: 48 kHz    Signal Level: -1dBFS    Trim: +4 dBu    Channel: 1(blue) / 2(red)  
 Analyzer BW: 22Hz – 22 kHz    Filter: None

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D-A THD+N VS FREQUENCY

10/11/17 16:17:35



Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Solid	3	Anlr.THd+N Ratio	Left	
1	3	Red	Solid	3	Anlr.THd+N Ratio	Left	

## D/A Dynamic Range

Sample Rate: 48 kHz    Signal Level: -60dBFS    Signal Frequency: 1 kHz Trim: +4 dBu    Channels: 1/2  
 Analyzer BW: 22Hz – 22kHz    Filter: see below

**Channel 1: > 120 dB A-weighted, 119 dB 22-22kHz**

**Channel 2: > 120 dB A-weighted, 119 dB 22-22kHz**

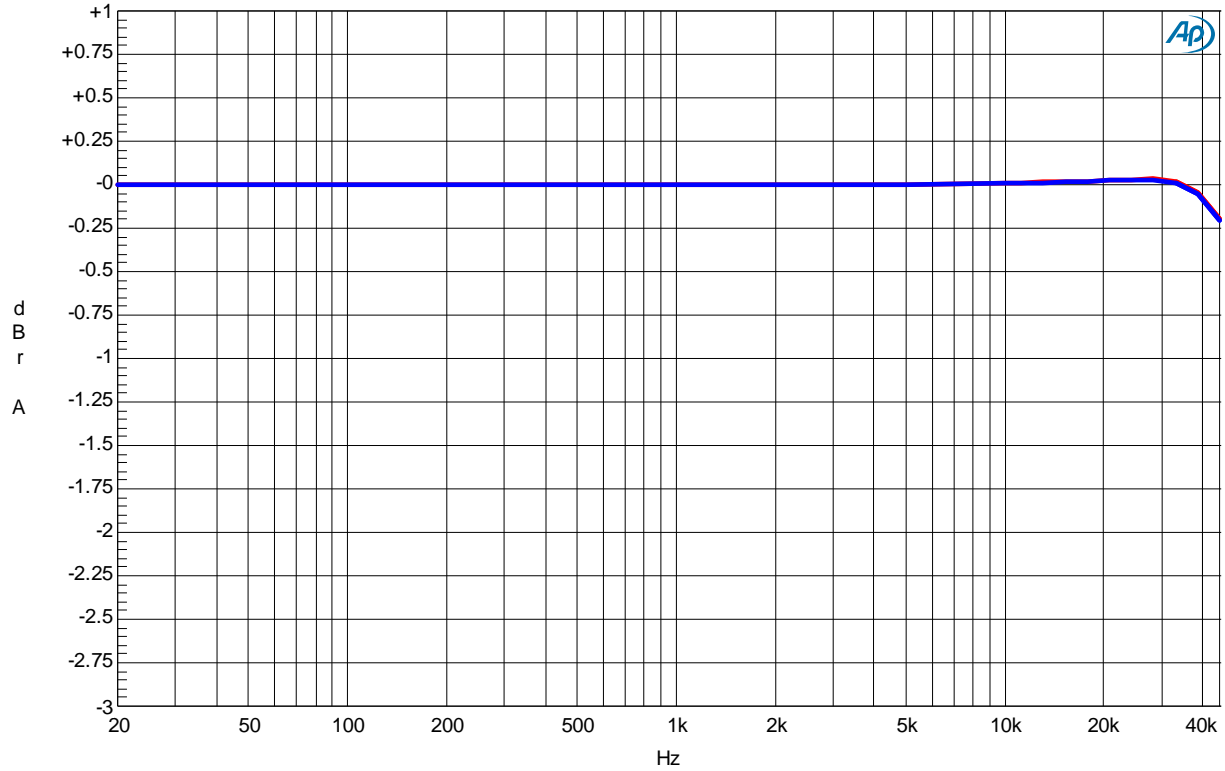
# D/A Frequency Response at 96 kHz Sample Rate

Sample Rate: 96kHz    Signal Level: -1dBFS    Trim: +4 dBu    Channel: 1/2  
 Analyzer BW: <10Hz – 500kHz    Filter: None

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D-A FREQUENCY RESPONSE

10/11/17 16:38:31



Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Solid	3	Anlr.Level AINormalize	Left	
1	2	Red	Solid	3	Anlr.Level BINormalize	Left	

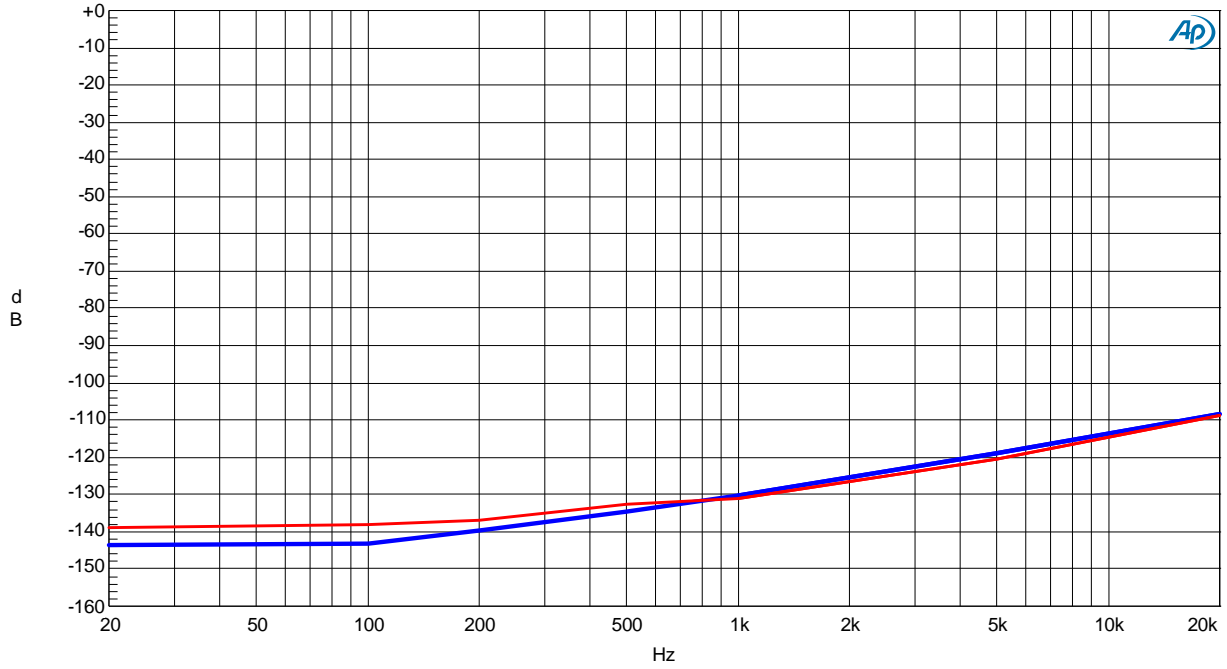
# D/A Crosstalk

Sample Rate: 48 kHz    Signal Level: -1dBFS    Trim: +4 dBu    Channel: 1/2  
Analyzer BW: <10Hz – 500 kHz

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D-A CROSSTALK or SEPARATION

10/11/17 16:50:52



Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Solid	3	Anlr.Crosstalk	Left	
1	2	Red	Solid	2	Anlr.Crosstalk	Left	