Schiit Amp APx555 Standard Test Suite: Jotunheim R

Notes:

This amplifier is intended only for the Raal/Requisite ribbon headphones, or other very low impedance, low voltage ribbon loads. All tests are done into the Raal/Requisite SR1a headphone load. If you have measurements that differ significantly from these, first check your analyzer and setup carefully, and (ideally) see if you can replicate the results on another analyzer. If the odd results persist, contact info@schiit.com so we can have a look.

Summary

Balanced Output

Level and Gain	PASSED
DC Level	PASSED
Signal Analyzer, 10mA	PASSED
Signal Analyzer, 100mA	PASSED
Signal Analyzer, 1A	PASSED
Frequency Response, Flat	PASSED
Frequency Response, Baffle Compensated	PASSED
Signal to Noise Ratio	PASSED
IMD Level Sweep (CCIF)	PASSED
IMD Frequency Sweep (CCIF)	PASSED
Crosstalk, One Channel Undriven	PASSED
Stepped Level Sweep	PASSED

Sequence Result:

Sequence Result: PASSED

APx Instrument

Instrument ID:	11571
Calibration Date:	5/8/2018
APx Version:	5.0.0.105.133644

Balanced Output : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• References

dBr G:	100.0 mVrms
dBm (Output Power):	600.0 ohm
W(watts) (Output Power):	8.000 ohm
Shared Frequency Reference:	1.00000 kHz
dBrA:	1.000 Vrms
dBrB:	1.000 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dBSPL1:	10.00 mVrms
dBSPL2:	10.00 mVrms
dBSPL1 Calibrator Level:	94.000 dBSPL
dBSPL2 Calibrator Level:	94.000 dBSPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• DCX

DCX is not detected.

• Clocks

Output Rate:	Track Output SR
Sync Out Level:	3.300 V

Sync Out Polarity:	Normal
Timebase Reference:	Internal
Jitter:	Disabled
• Triggers	
Source:	Off
Input Logic Level:	3.300 V
Edge:	Rising

Balanced Output : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	1.00000 kHz

RMS Level (1/19/2020 12:29:54.039 PM)

Ch1 235.6 mVrms
Ch2 238.6 mVrms

Balanced Output : DC Level

Waveform:	Sine
Generator Level:	0.000 Vrms
DC Offset:	0.000 V
Frequency:	1.00000 kHz
Delay Time:	100.0 ms
Acquisition Time:	333.0 ms

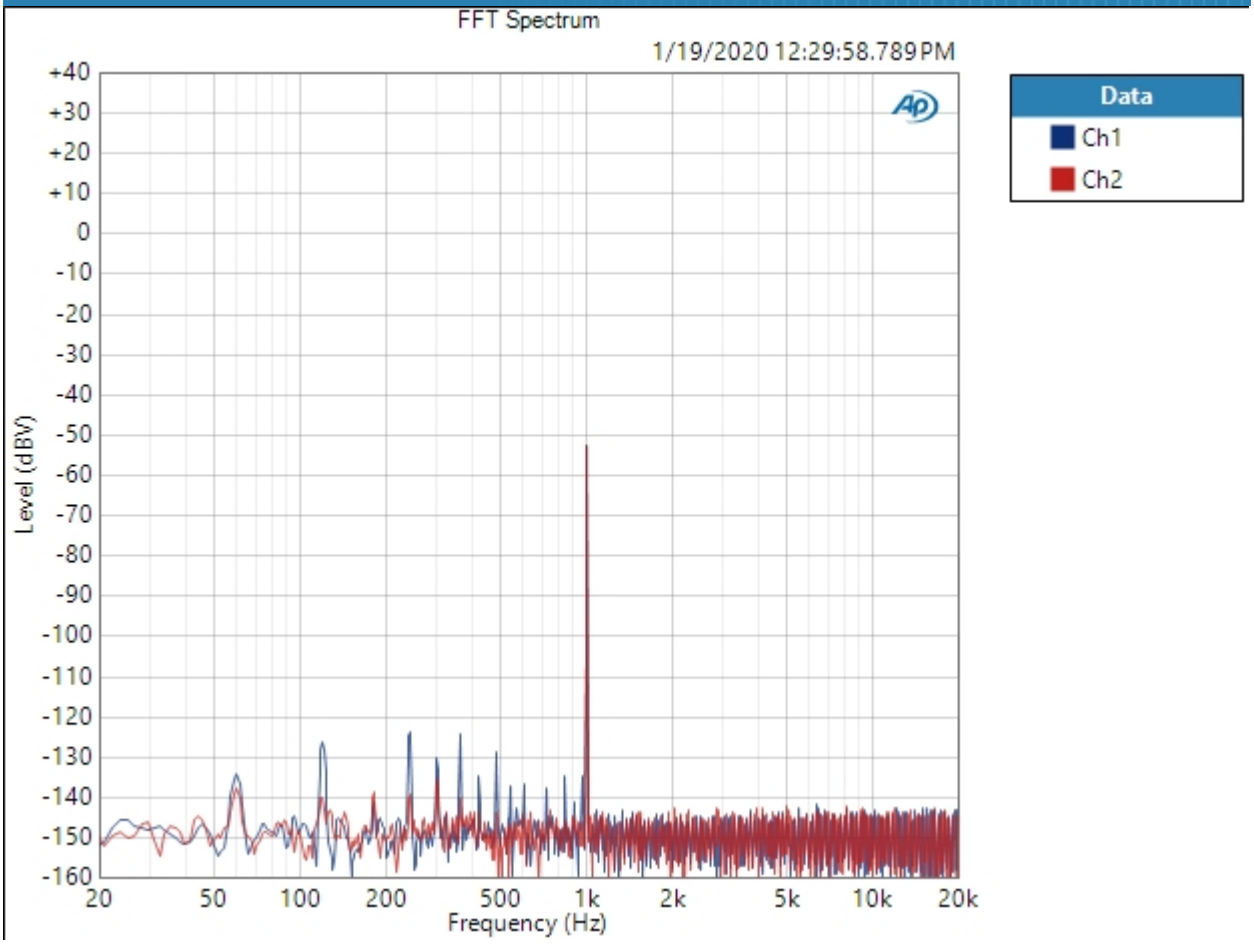
DC Level (1/19/2020 12:29:55.119 PM)

Ch1 -211.6 uV
Ch2 93.53 uV

Balanced Output : Signal Analyzer, 10mA

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.000 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	1/19/2020 12:29:58 PM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	32K
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (1/19/2020 12:29:58.789 PM)

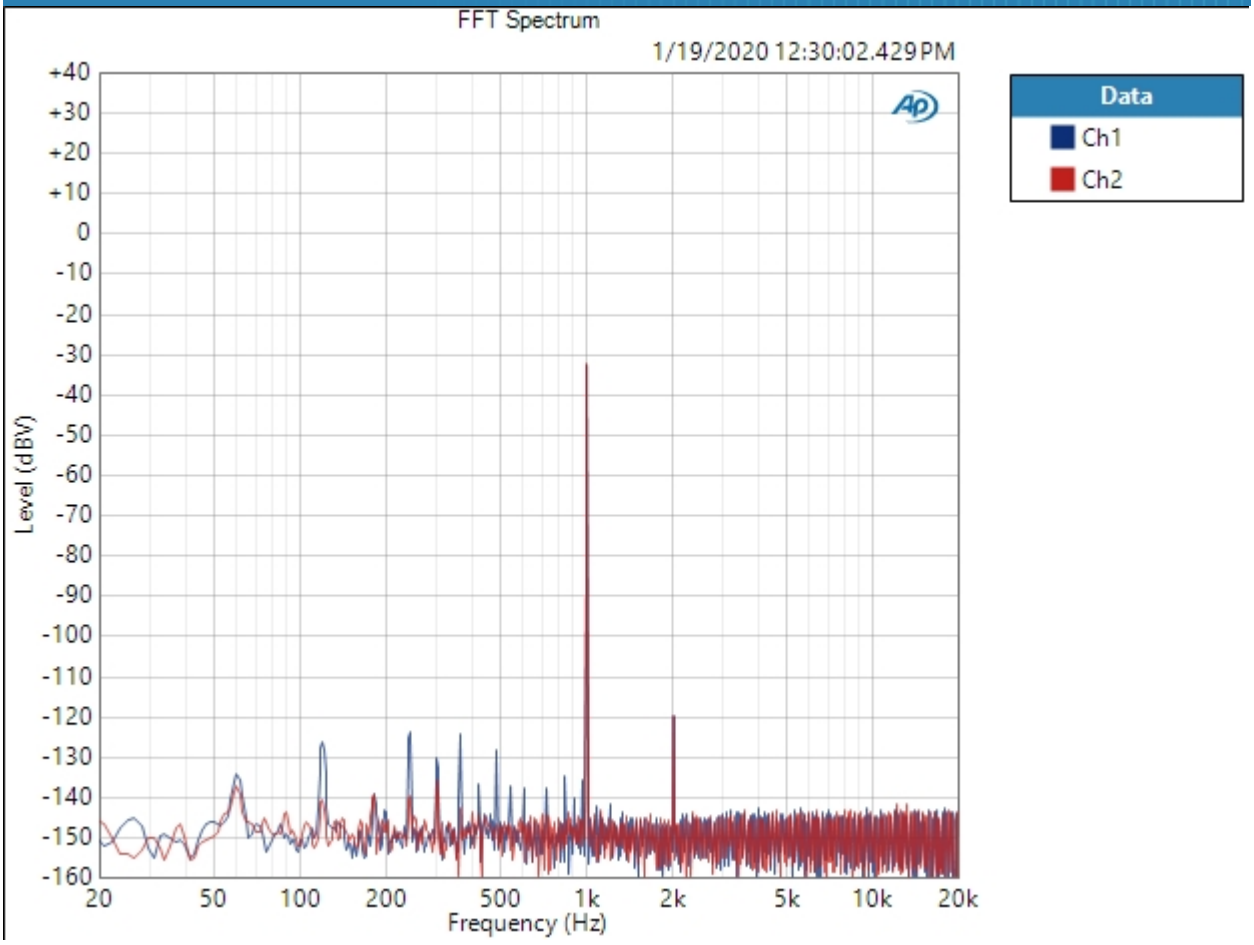


Result: PASSED

Balanced Output : Signal Analyzer, 100mA

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	10.00 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	1/19/2020 12:30:02 PM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	32K
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (1/19/2020 12:30:02.429 PM)

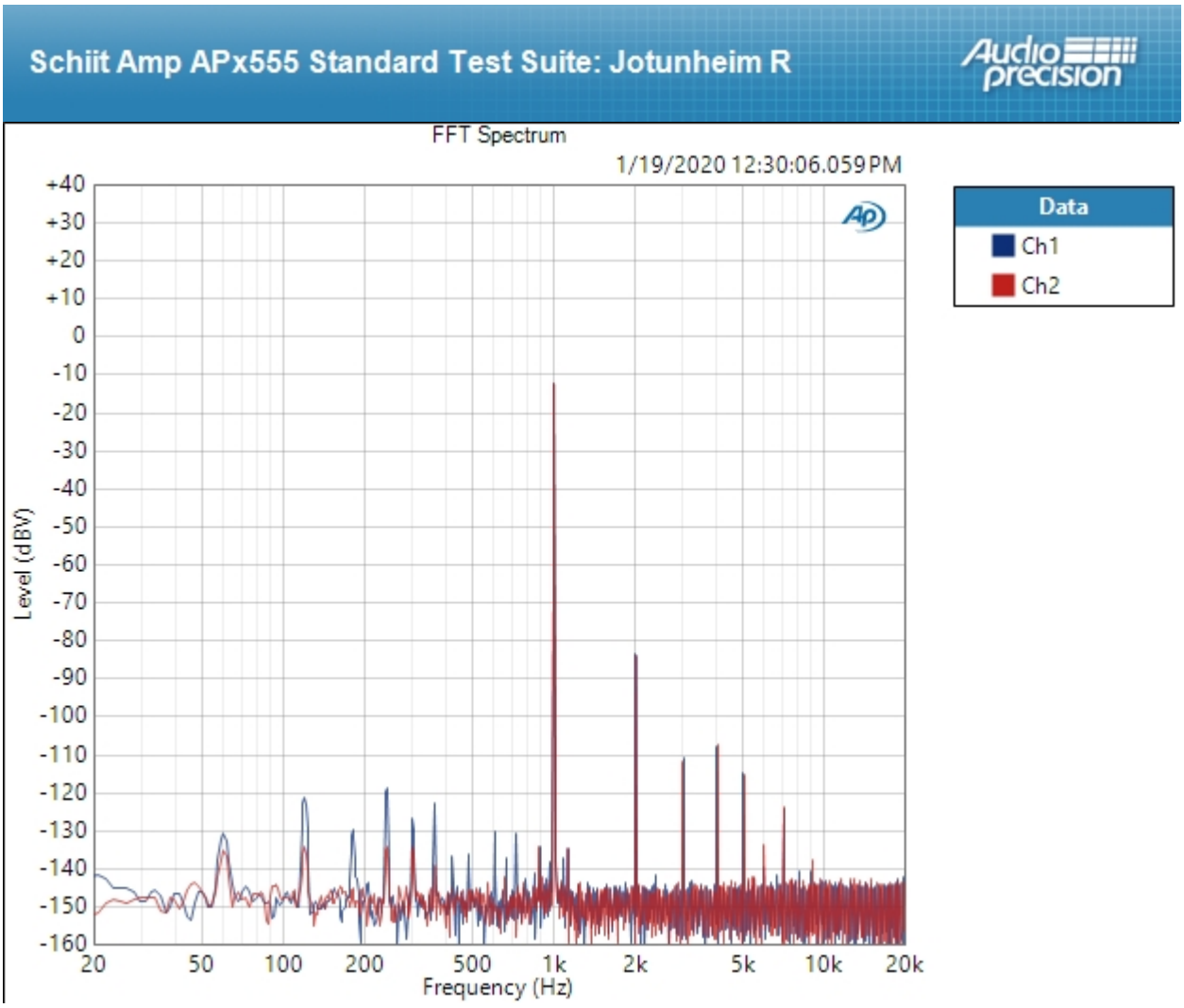


Result: PASSED

Balanced Output : Signal Analyzer, 1A

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	1/19/2020 12:30:06 PM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	32K
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (1/19/2020 12:30:06.059 PM)

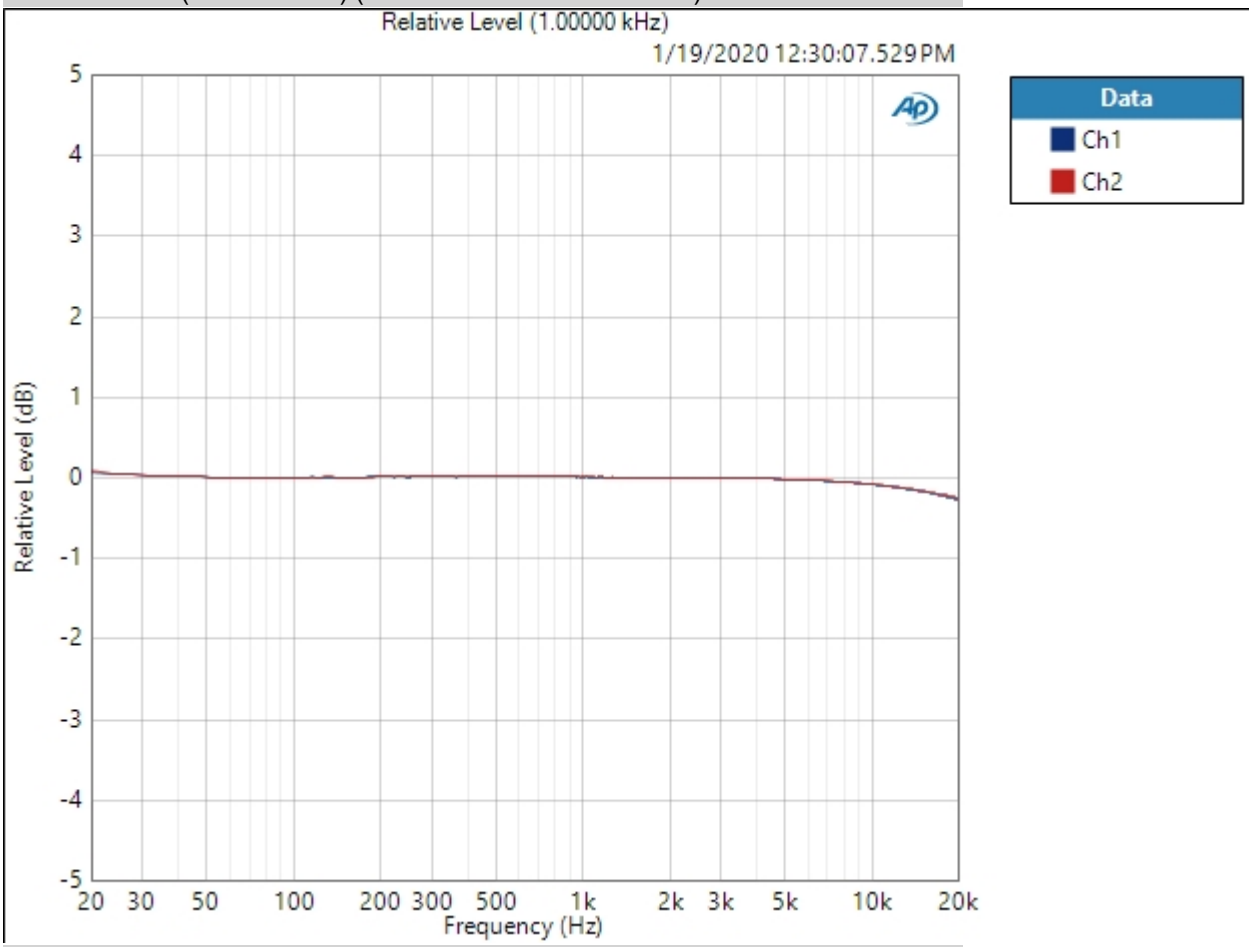


Result: PASSED

Balanced Output : Frequency Response, Flat

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	10.00 mVrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	50.00 ms
Secondary Source:	None
Measured 1	1/19/2020 12:30:07 PM

Relative Level (1.00000 kHz) (1/19/2020 12:30:07.529 PM)



Relative Level (1.00000 kHz) Parameters

Mode:	Normalized at Reference
Ref Frequency:	1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (1/19/2020 12:30:07.529 PM)

Ch1 ±0.181 dB

Ch2 ±0.170 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

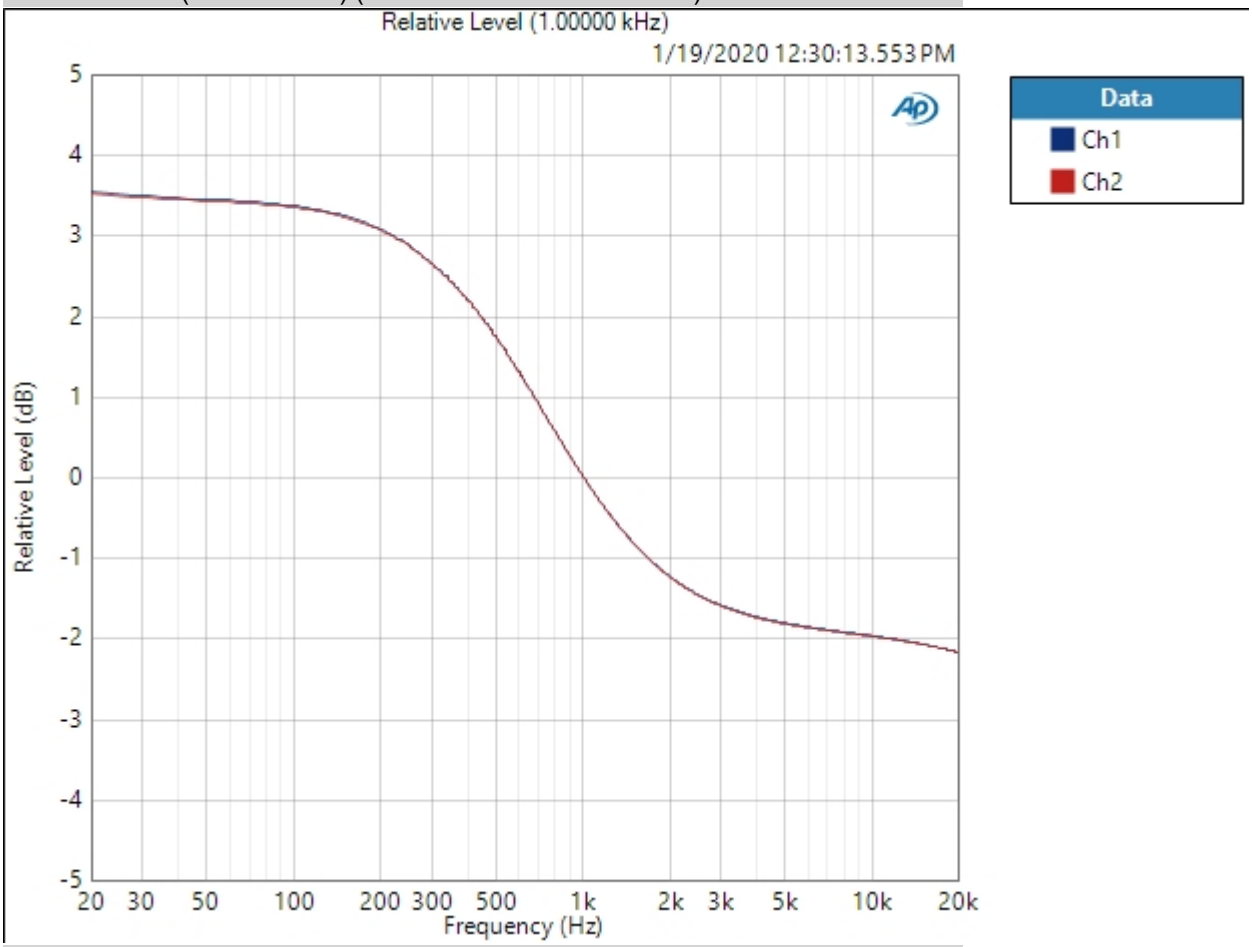
Min: 20.0000 Hz

Max: 20.0000 kHz

Balanced Output : Frequency Response, Baffle Compensated

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	10.00 mVrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	50.00 ms
Secondary Source:	None
Measured 1	1/19/2020 12:30:13 PM

Relative Level (1.00000 kHz) (1/19/2020 12:30:13.553 PM)



Relative Level (1.00000 kHz) Parameters

Mode:	Normalized at Reference
Ref Frequency:	1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (1/19/2020 12:30:13.553 PM)

Ch1 ±2.857 dB

Ch2 ±2.844 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Balanced Output : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	330.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (1/19/2020 12:30:21.116 PM)

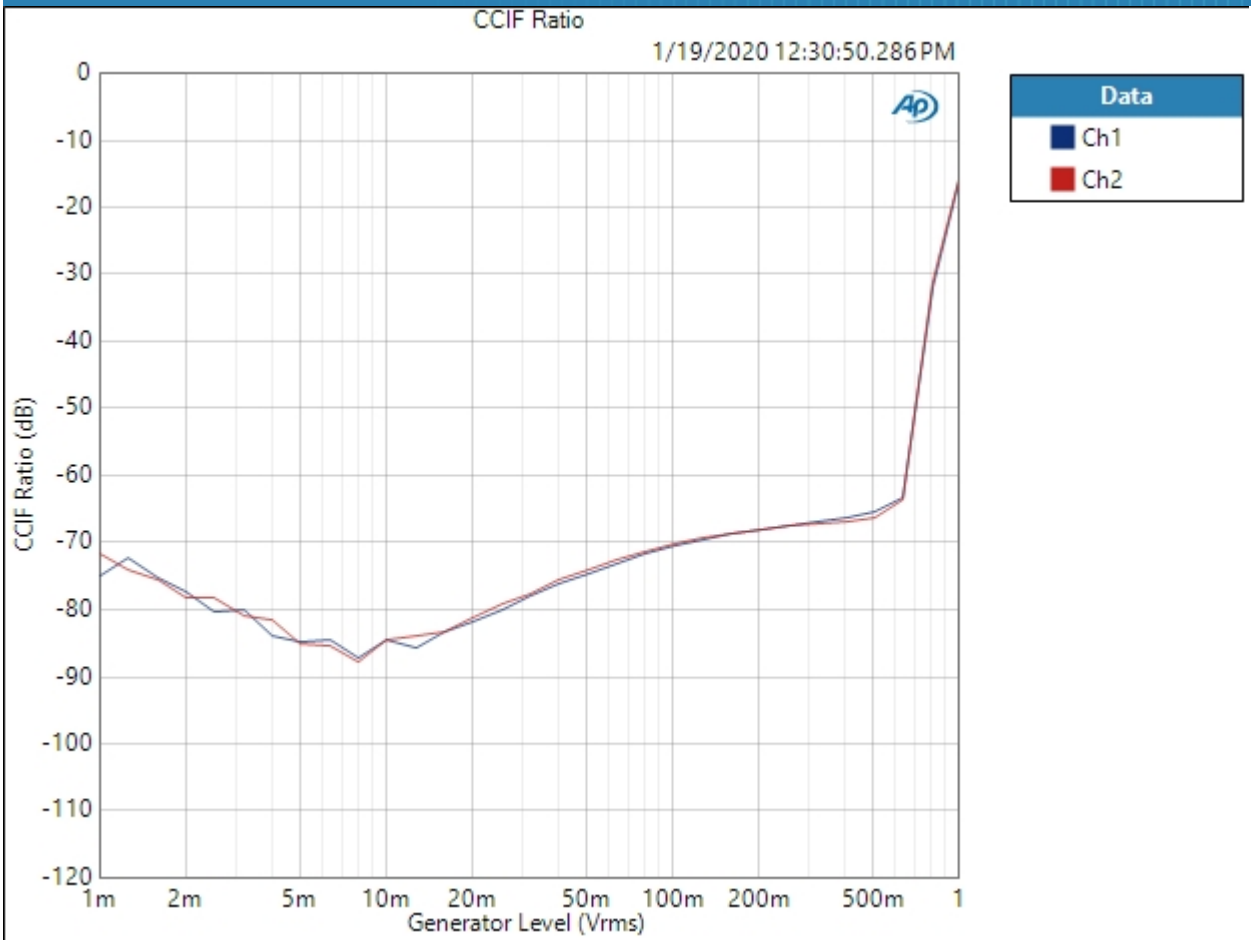
Ch1 111.032 dB

Ch2 111.354 dB

Balanced Output : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	1.000 Vrms
DC Offset:	0.000 V
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	1.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	1/19/2020 12:30:50 PM

CCIF Ratio (1/19/2020 12:30:50.286 PM)

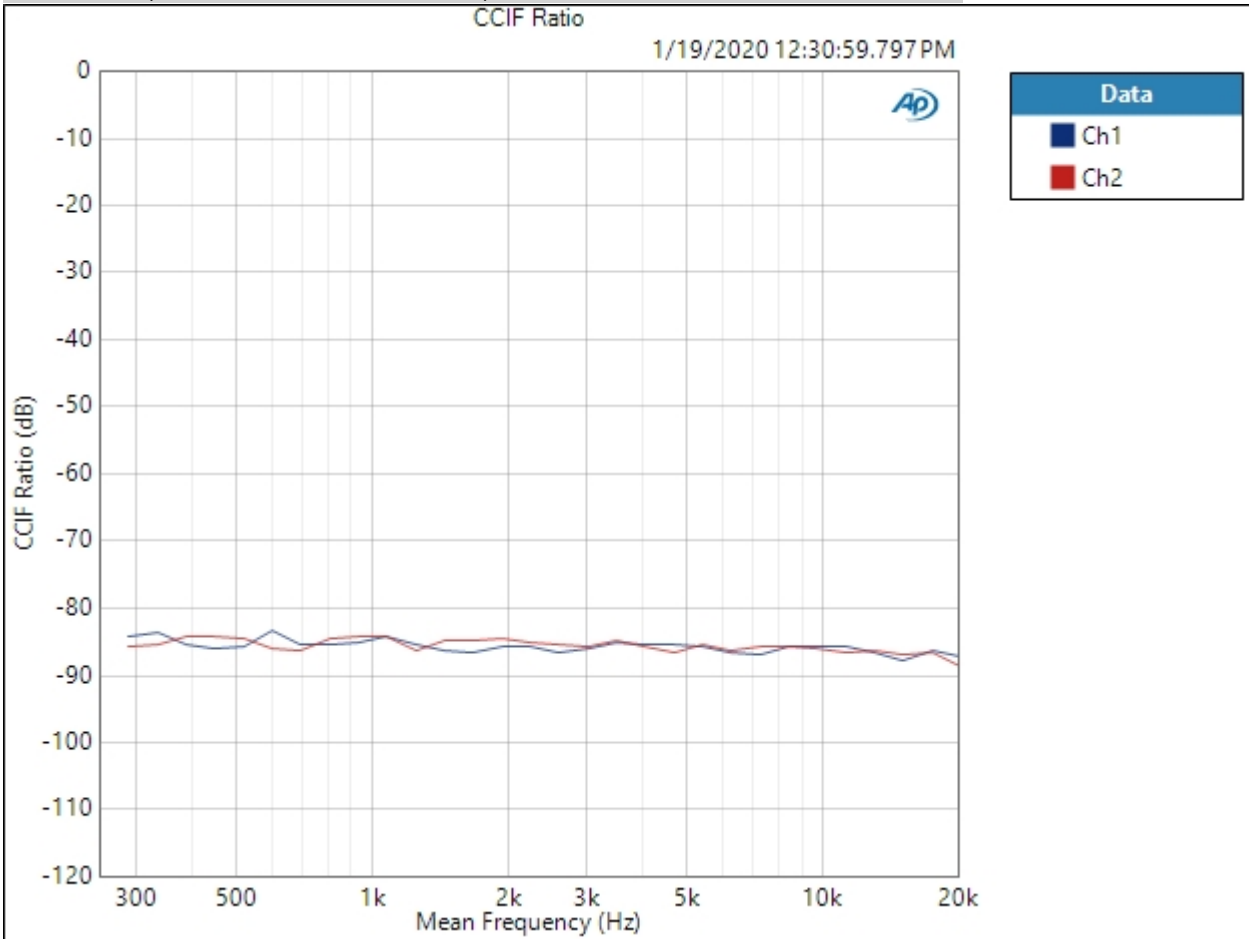


Result: PASSED

Balanced Output : IMD Frequency Sweep (CCIF)

Generator Level:	10.00 mVrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Frequency:	20.0000 kHz
Stop Frequency:	250.000 Hz
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	1/19/2020 12:30:59 PM

CCIF Ratio (1/19/2020 12:30:59.797 PM)



Result: PASSED

Balanced Output : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	10.0000 kHz

Crosstalk (1/19/2020 12:31:01.008 PM)

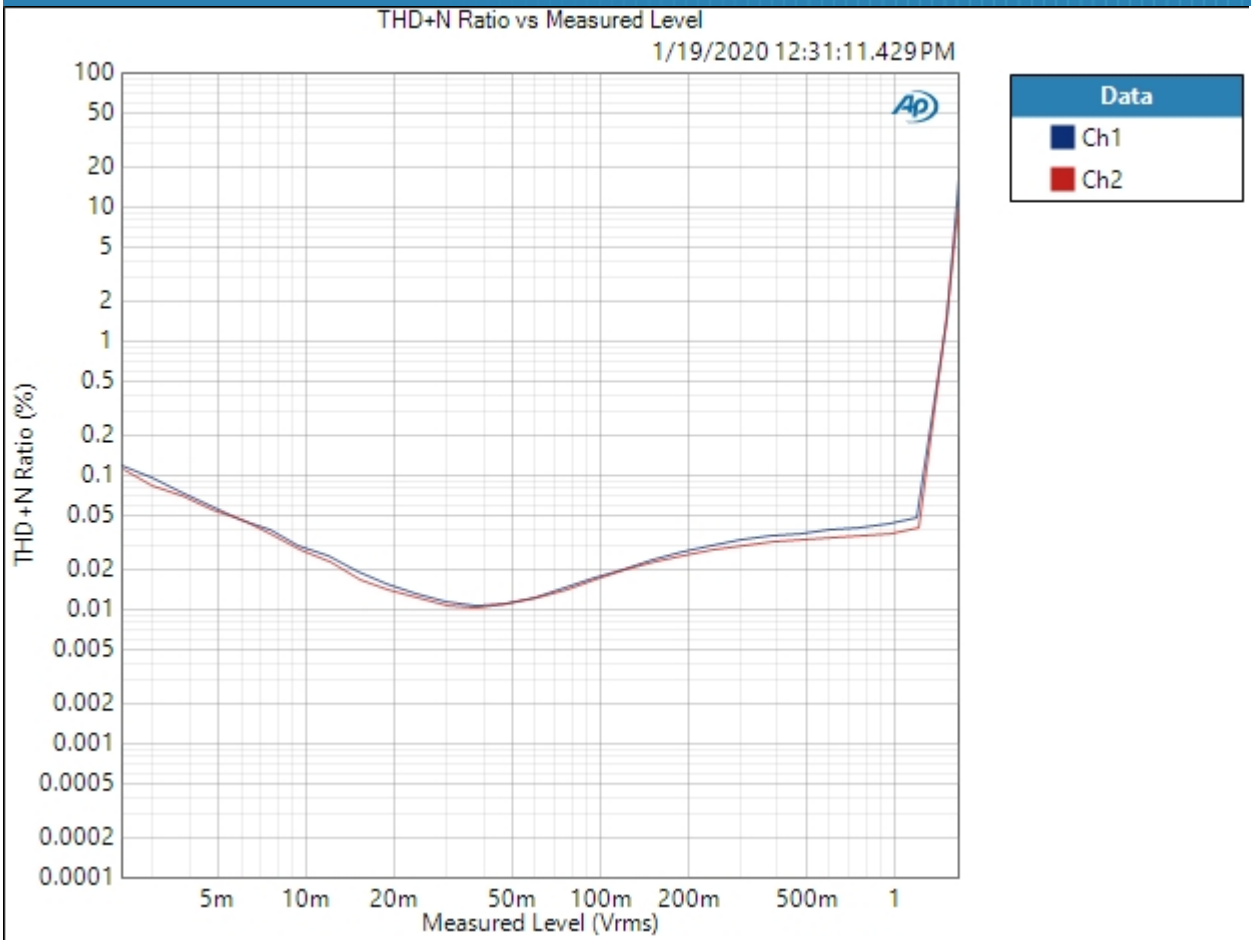
Ch1 -66.252 dB

Ch2 -66.934 dB

Balanced Output : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	1.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	1/19/2020 12:31:11 PM

THD+N Ratio vs Measured Level (1/19/2020 12:31:11.429 PM)



Result: PASSED