

Sequence Report



Summary

Level, Gain, SNR

Level and Gain	✓ PASSED
DC Level	✓ PASSED
Signal to Noise Ratio	✓ PASSED
Signal to Noise Ratio A-wt	✓ PASSED
Noise FFT	✓ PASSED

Linear Distortions

Frequency Response, 1 Watt	✓ PASSED
Frequency Response, full power	✓ PASSED
Phase	✓ PASSED

Non-Linear Distortions

THD+N 1W	✓ PASSED
THD+N 1dB below clipping	✓ PASSED
THD vs Frequency	✓ PASSED
THD vs Level	✓ PASSED
IMD (SMPTE)	✓ PASSED
IMD (CCIF)	✓ PASSED
1KHz FFT	✓ PASSED
IMD SMPTE FFT	✓ PASSED
IMD CCIF FFT	✓ PASSED

Sequence Result:

Sequence Result: ✓ PASSED

Sequence Report



Level, Gain, SNR : Level and Gain

Waveform: Sine

Generator Level: 68.00 mVrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

RMS Level (2020-07-11 07:17:44.480)

L 1.014 W

R 4.182 pW

Gain (2020-07-11 07:17:44.480)

L 33.409 dB

R -80.436 dB

Level, Gain, SNR : DC Level

Waveform: Sine

Generator Level: 68.00 mVrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

Delay Time: 100.0 ms

Acquisition Time: 333.0 ms

DC Level (2020-07-11 07:17:45.842)

L 1.675 mV

R -24.86 mV

Level, Gain, SNR : Signal to Noise Ratio

Waveform: Sine

Generator Level: 365.0 mVrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

Low-pass Filter: 20 kHz

Weighting Filter: Signal Path

High-pass Filter: 20 Hz

SNR (2020-07-11 07:17:48.297)

L 83.370 dB

R 11.557 dB

Sequence Report



Level, Gain, SNR : Signal to Noise Ratio A-wt

Waveform: Sine

Generator Level: 364.9 mVrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

Low-pass Filter: 20 kHz

Weighting Filter: A-wt.

High-pass Filter: 20 Hz

SNR A-wt (2020-07-11 07:17:50.885)

L 97.383 dB

R 12.703 dB

Sequence Report

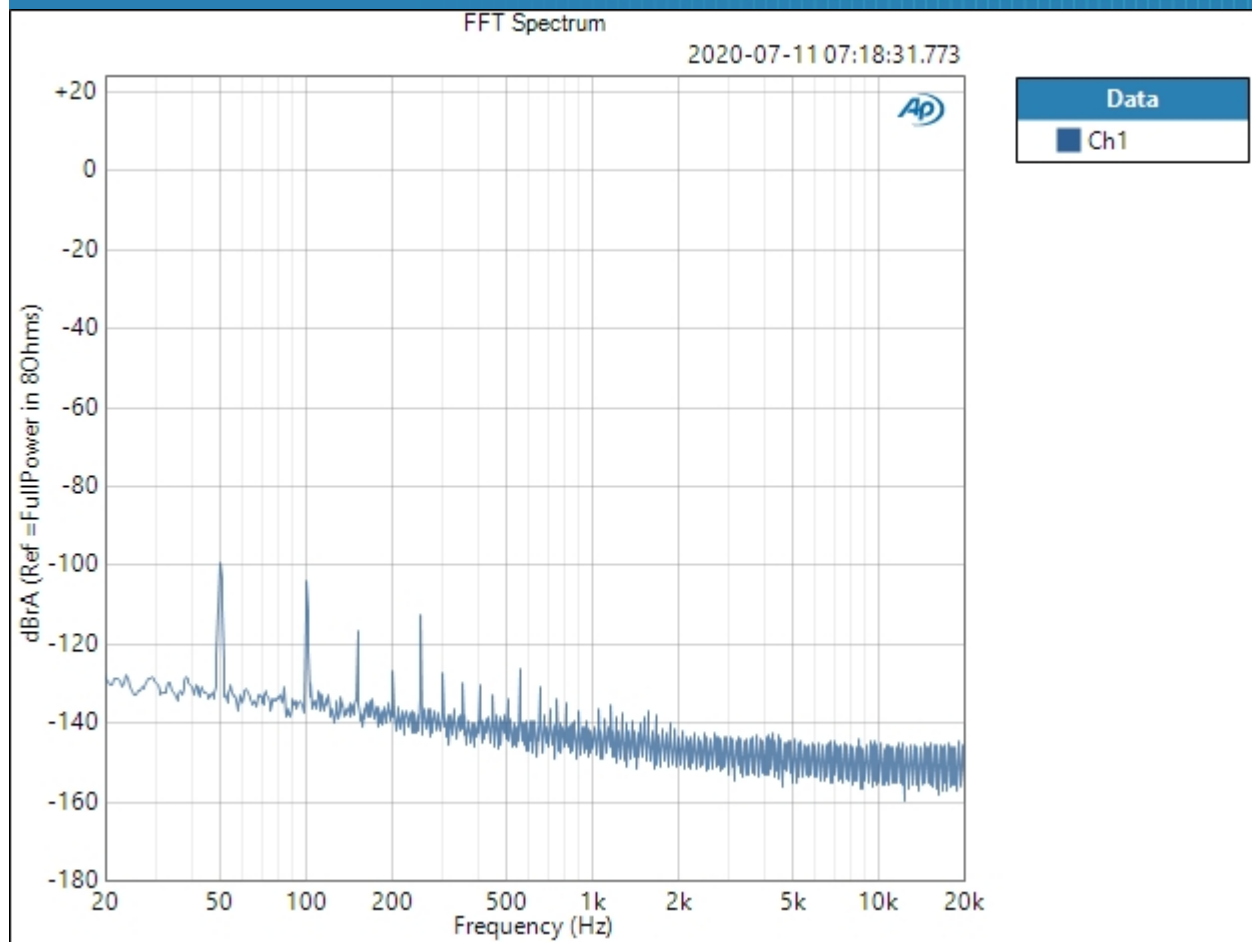


Level, Gain, SNR : Noise FFT

Waveform: Sine
Generator Level: 0.000 Vrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 2020-07-11 07:18:31
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 128K
Averaging: Power
Averages: 8
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (2020-07-11 07:18:31.773)

Sequence Report



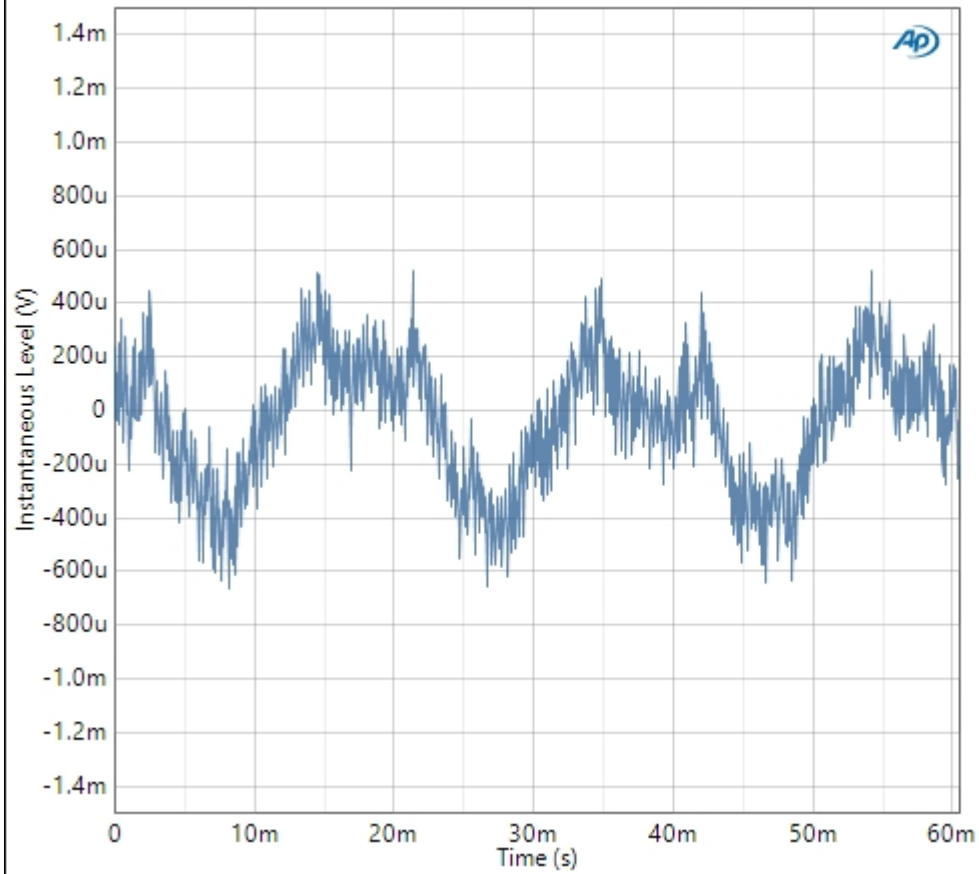
Result: PASSED

Scope (2020-07-11 07:18:31.773)

Sequence Report

Scope

2020-07-11 07:18:31.773



Data
Ch1

Scope Parameters

Interpolated: On

Result: PASSED

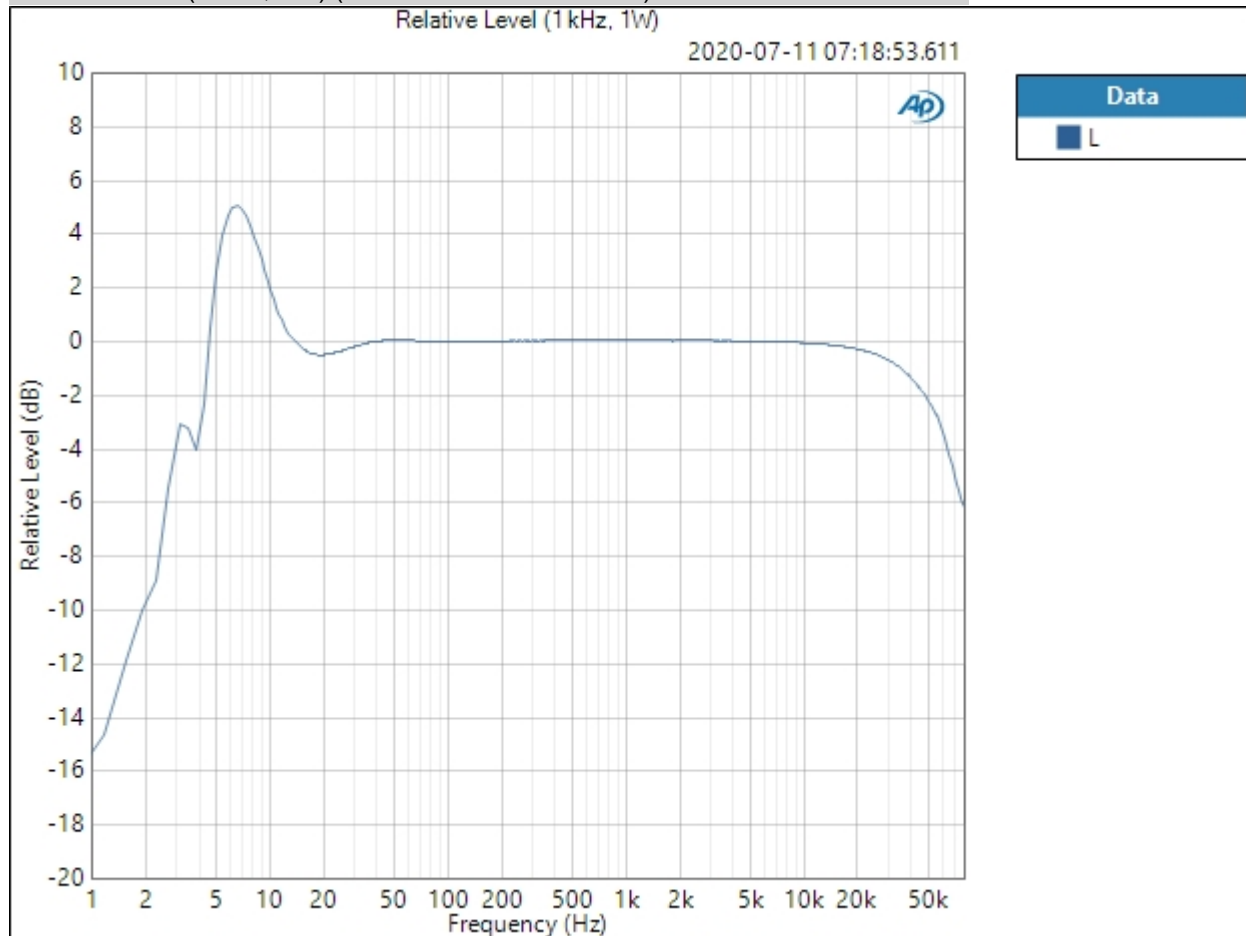
Sequence Report



Linear Distortions : Frequency Response, 1 Watt

Start Frequency: 1.00000 Hz
Stop Frequency: 80.0000 kHz
Generator Level: 68.00 mVrms
DC Offset: 0.000 V
EQ: None
Pre-Sweep: 100.0 ms
Sweep: 5.000 s
Extend Acquisition By: 50.00 ms
Secondary Source: None
Measured 1 2020-07-11 07:18:53

Relative Level (1 kHz, 1W) (2020-07-11 07:18:53.611)



Relative Level (1 kHz, 1W) Parameters

Mode: Normalized at Reference
Ref Frequency: 1.00000 kHz

Sequence Report



Result:  PASSED

Sequence Report



Linear Distortions : Frequency Response, full power

Start Frequency: 1.00000 Hz

Stop Frequency: 80.0000 kHz

Generator Level: 364.9 mVrms

DC Offset: 0.000 V

EQ: None

Pre-Sweep: 100.0 ms

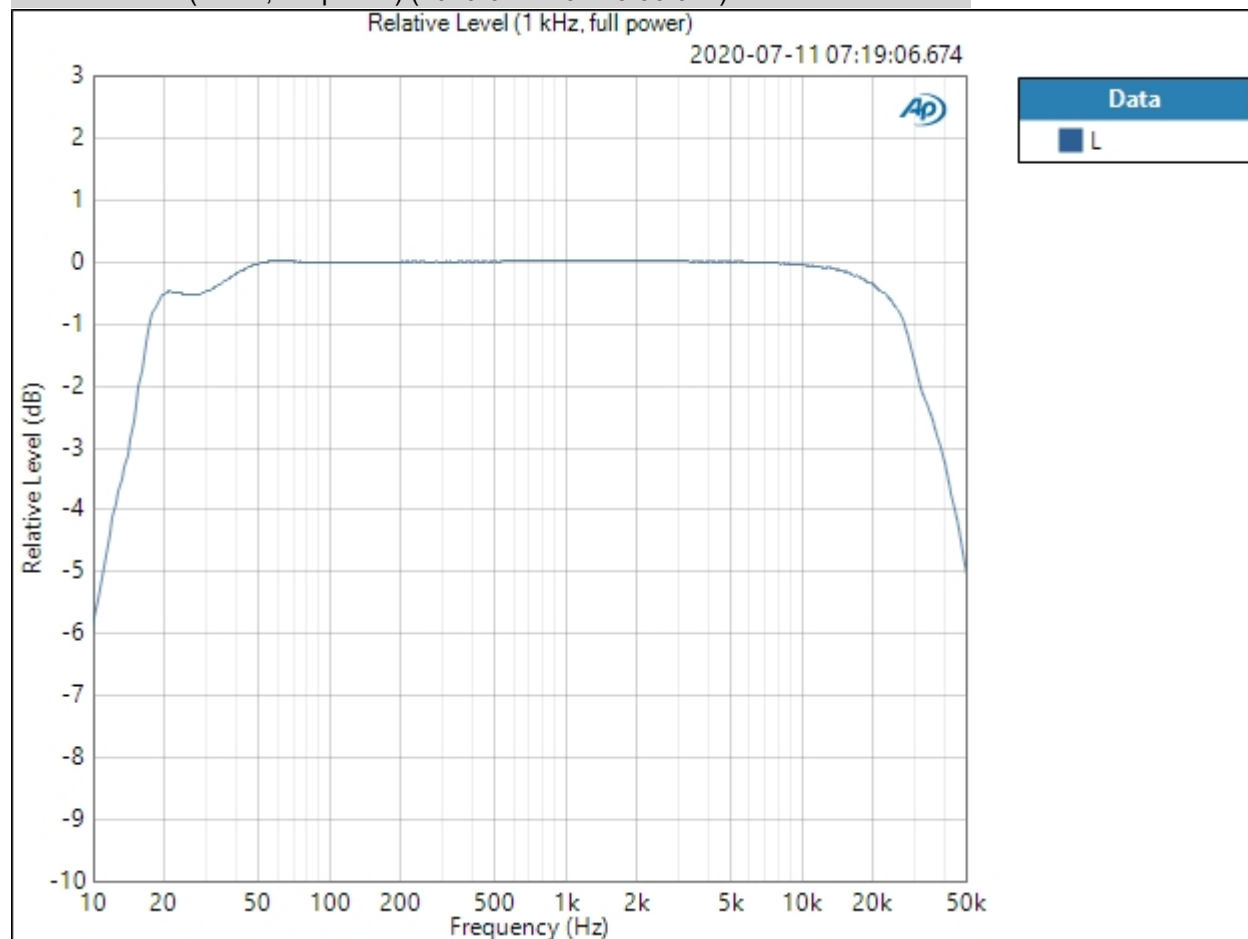
Sweep: 5.000 s

Extend Acquisition By: 50.00 ms

Secondary Source: None

Measured 1 2020-07-11 07:19:06

Relative Level (1 kHz, full power) (2020-07-11 07:19:06.674)



Relative Level (1 kHz, full power) Parameters

Mode: Normalized at Reference

Ref Frequency: 1.00000 kHz

Sequence Report



Result:  PASSED

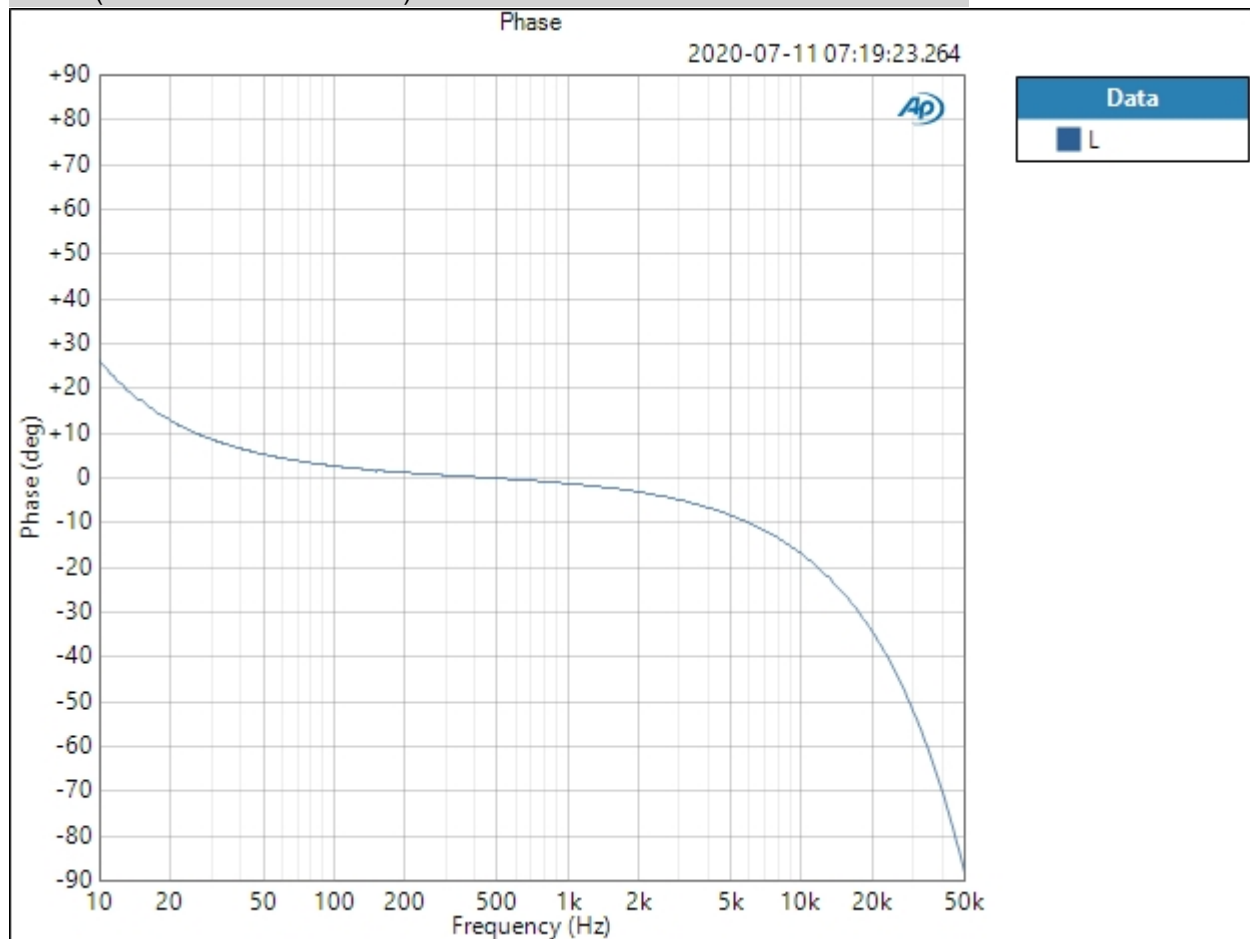
Sequence Report



Linear Distortions : Phase

Start Frequency: 10.0000 Hz
Stop Frequency: 50.0000 kHz
Generator Level: 68.00 mVrms
DC Offset: 0.000 V
EQ: None
Pre-Sweep: 100.0 ms
Sweep: 5.000 s
Measured 1 2020-07-11 07:19:23
Extend Acquisition By: 1.000 s
Crosstalk Type: None
Secondary Source: None

Phase (2020-07-11 07:19:23.264)



Phase Parameters

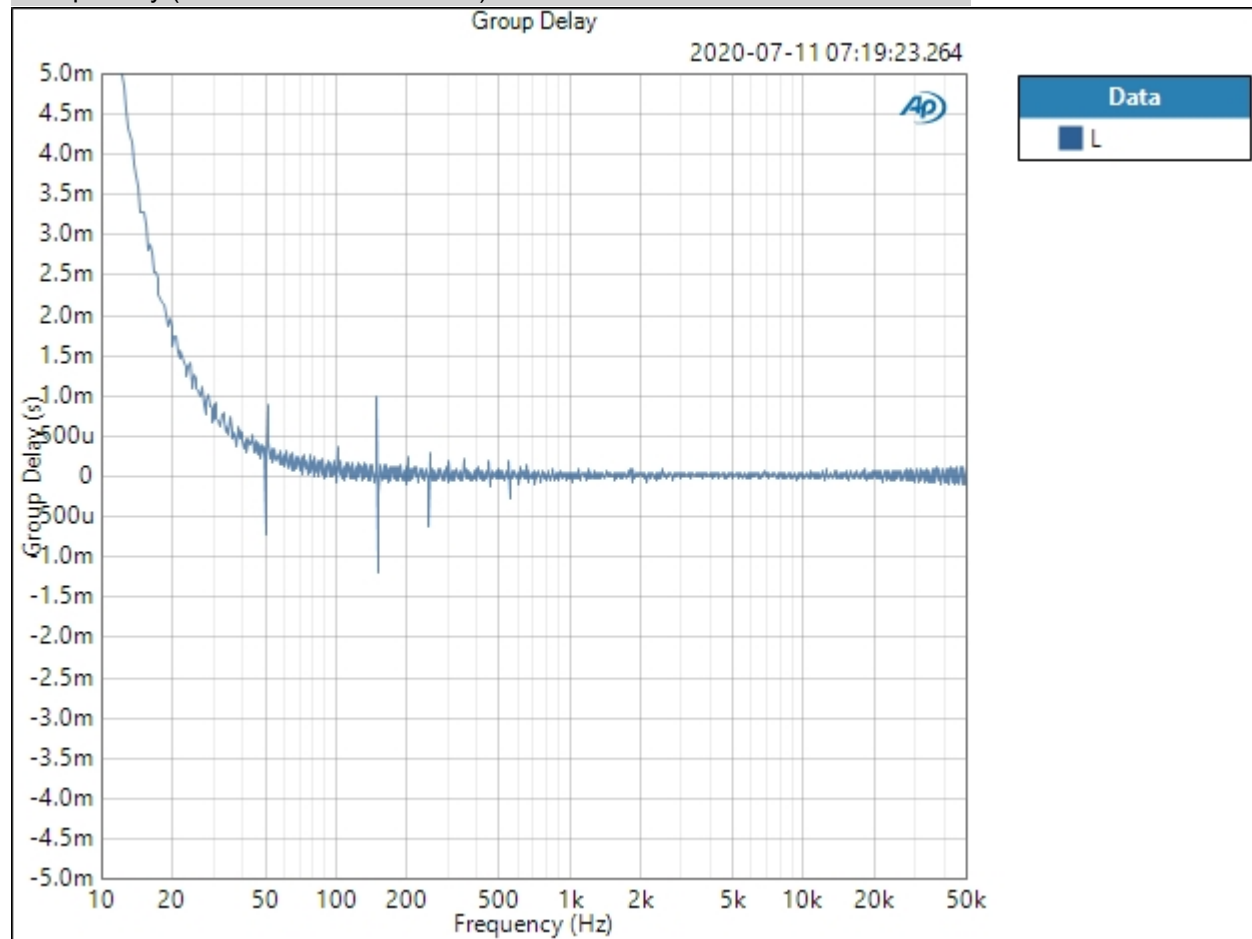
Mode: Input-to-output

Sequence Report



Result: ✔ PASSED

Group Delay (2020-07-11 07:19:23.264)



Result: ✔ PASSED

Sequence Report



Non-Linear Distortions : THD+N 1W

Waveform: Sine
Generator Level: 68.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Low-pass Filter: 20 kHz
Weighting Filter: Signal Path
High-pass Filter: 20 Hz
Notch Tuning Mode: Measured Frequency

THD+N Ratio (2020-07-11 07:19:27.429)

L 0.075171 %

R---- %

THD Ratio (2020-07-11 07:19:27.429)

L 0.065278 %

R---- %

Noise Level (2020-07-11 07:19:27.429)

L 1.184 mVrms

R 6.596 uVrms

Distortion Product Ratio (2020-07-11 07:19:27.429)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch1	100.00	0.01	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Ch2	----	----	----	----	----	----	----	----	----	----

Distortion Product Ratio Parameters

Frequency Unit: Hz

Ratio Unit: %

Sequence Report



Non-Linear Distortions : THD+N 1dB below clipping

Waveform: Sine

Generator Level: 315.0 mVrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

Low-pass Filter: 20 kHz

Weighting Filter: Signal Path

High-pass Filter: 20 Hz

Notch Tuning Mode: Measured Frequency

THD+N Ratio (2020-07-11 07:19:30.757)

L 0.393411 %

R 29.695954 %

THD Ratio (2020-07-11 07:19:30.757)

L 0.393859 %

R 5.919745 %

Noise Level (2020-07-11 07:19:30.757)

L 1.778 mVrms

R 5.305 uVrms

Distortion Product Ratio (2020-07-11 07:19:30.757)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch1	100.00	0.04	0.38	0.01	0.09	0.01	0.06	0.01	0.00	0.00
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	94.50	2.00	2.05	1.12	1.14	1.86	0.99	1.01	0.99	0.94

Distortion Product Ratio Parameters

Frequency Unit: Hz

Ratio Unit: %

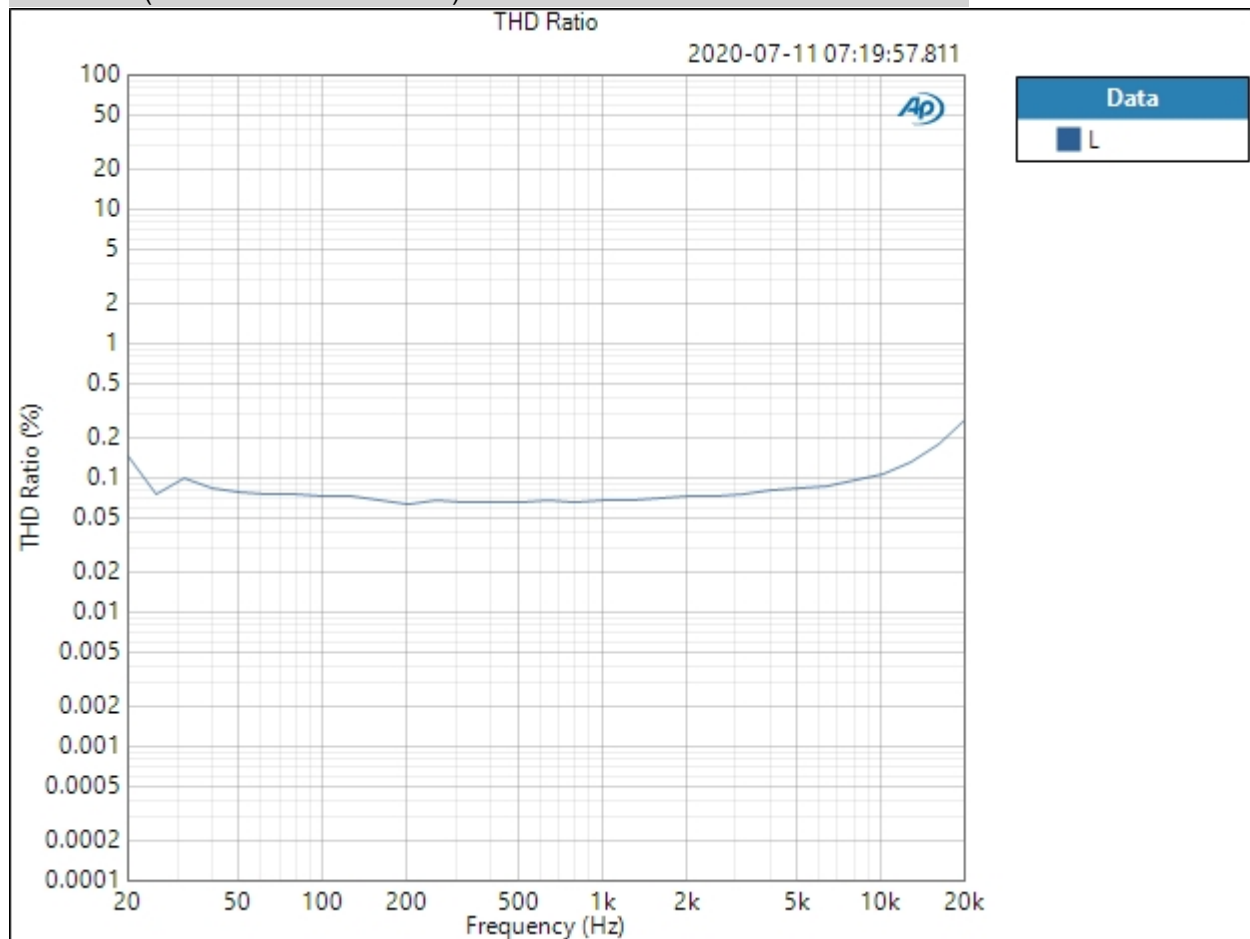
Sequence Report



Non-Linear Distortions : THD vs Frequency

Generator Level: 68.00 mVrms
DC Offset: 0.000 V
EQ: None
Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Step Type: Logarithmic
Number of Points: 31
Weighting Filter: Signal Path
High-pass Filter: 20 Hz
Phase Ref Channel: Ch1
Measured 1 2020-07-11 07:19:57

THD Ratio (2020-07-11 07:19:57.811)



Result: PASSED

Sequence Report



Non-Linear Distortions : THD vs Level

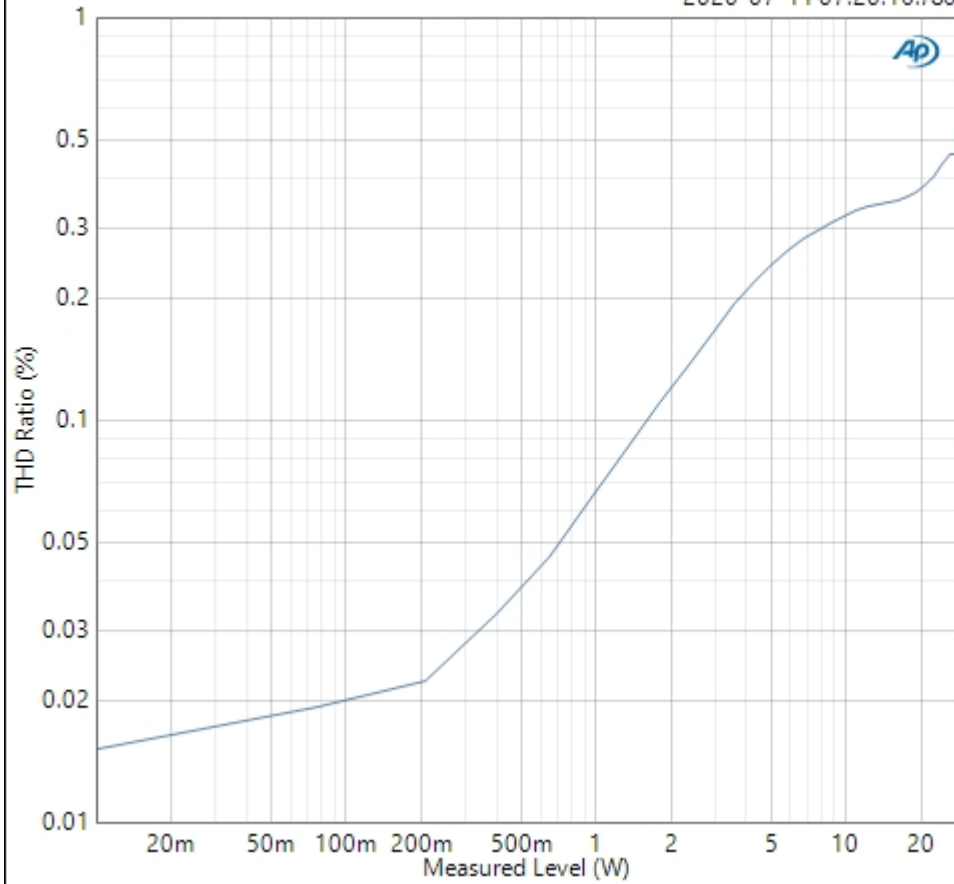
Waveform: Sine
Generator Level: 100.0 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Start Level: 6.800 mVrms
Stop Level: 364.9 mVrms
Step Type: Linear
Number of Points: 31
Step Size: 11.94 mVrms
Offset: 0.000 V
Low-pass Filter: 20 kHz
Weighting Filter: Signal Path
High-pass Filter: 20 Hz
Notch Tuning Mode: Generator Frequency
Measured 1 2020-07-11 07:20:16

THD Ratio vs Measured Level (2020-07-11 07:20:16.786)

Sequence Report

THD Ratio vs Measured Level

2020-07-11 07:20:16.786



Data
L

Result:  PASSED

Sequence Report



Non-Linear Distortions : IMD (SMPTE)

IMD Type: SMPTE
Waveform: IMD
Generator Level: 68.00 mVrms
DC Offset: 0.000 V
Frequency 1: 60.0000 Hz
Frequency 2: 7.00000 kHz
Frequency Ratio: 4:1
IMD Split: False

SMPTE Ratio (2020-07-11 07:20:18.771)

L 0.281633 %

R---- %

Non-Linear Distortions : IMD (CCIF)

IMD Type: CCIF
Waveform: IMD
Generator Level: 68.00 mVrms
DC Offset: 0.000 V
Mean Frequency: 19.0000 kHz
Diff Frequency: 1.00000 kHz
IMD Split: False
Mode: d2+d3

CCIF Ratio (2020-07-11 07:20:20.305)

L 0.214428 %

R---- %

Sequence Report



Non-Linear Distortions : 1KHz FFT

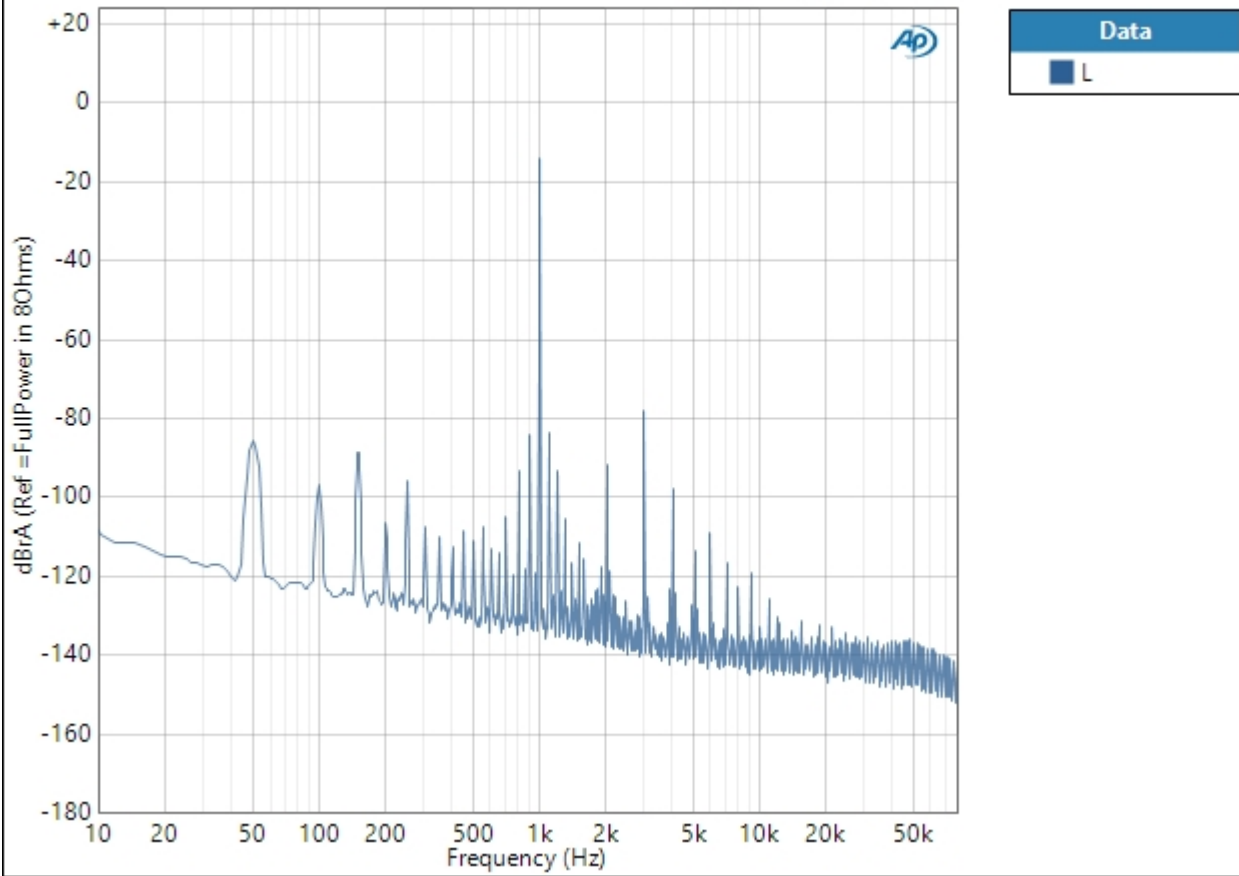
Waveform: Sine
Generator Level: 68.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 2020-07-11 07:20:37
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 128K
Averaging: Power
Averages: 16
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (2020-07-11 07:20:37.052)

Sequence Report

FFT Spectrum

2020-07-11 07:20:37.052



Result:  PASSED

Sequence Report



Non-Linear Distortions : IMD SMPTE FFT

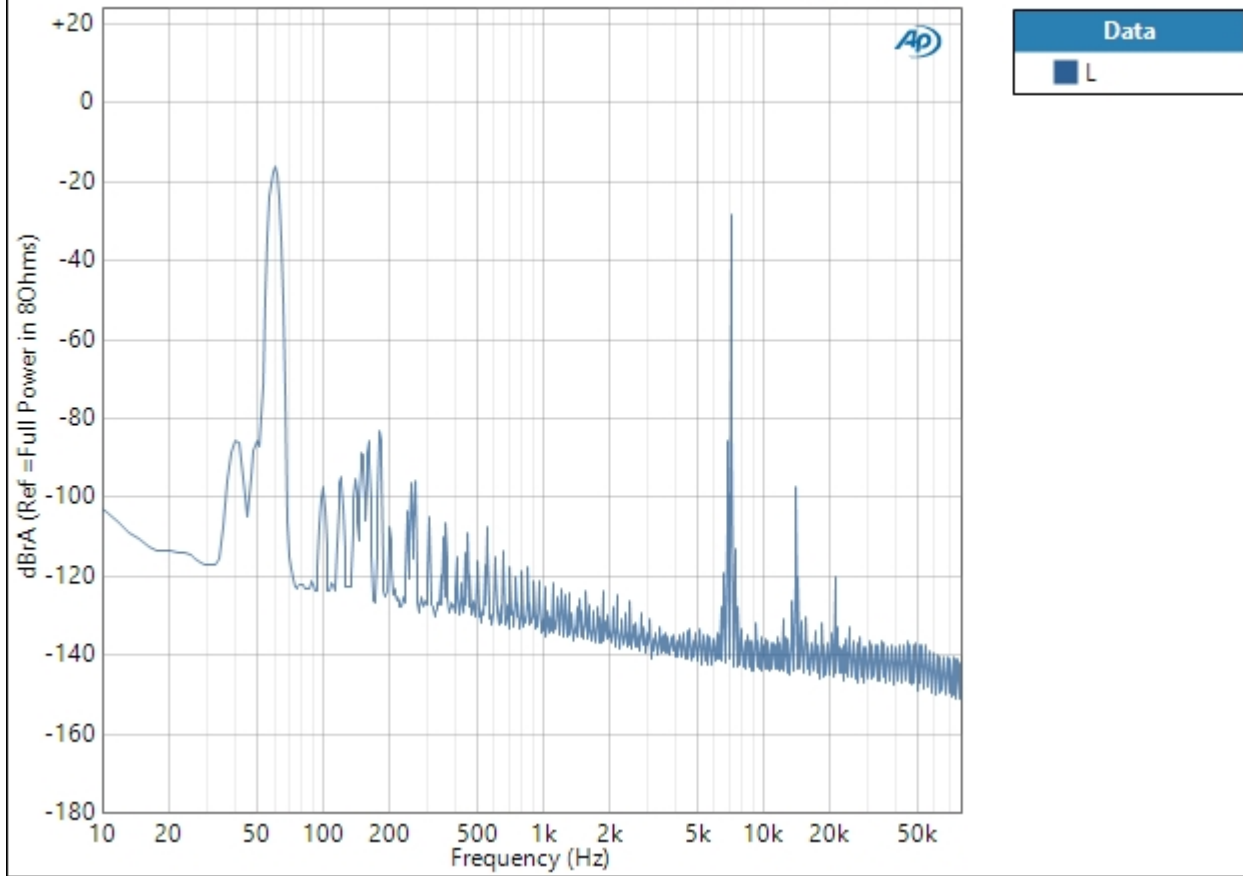
Waveform: Sine, Dual
Generator Level: 68.00 mVrms
DC Offset: 0.000 V
Frequency: 60.0000 Hz
Frequency B: 7.00000 kHz
IMD Split: No
FB:FA Ratio: 25.000000 %
Secondary Source: None
Measured 1 2020-07-11 07:20:54
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 128K
Averaging: Power
Averages: 16
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (2020-07-11 07:20:54.087)

Sequence Report

FFT Spectrum

2020-07-11 07:20:54.087



Result: PASSED

Sequence Report



Non-Linear Distortions : IMD CCIF FFT

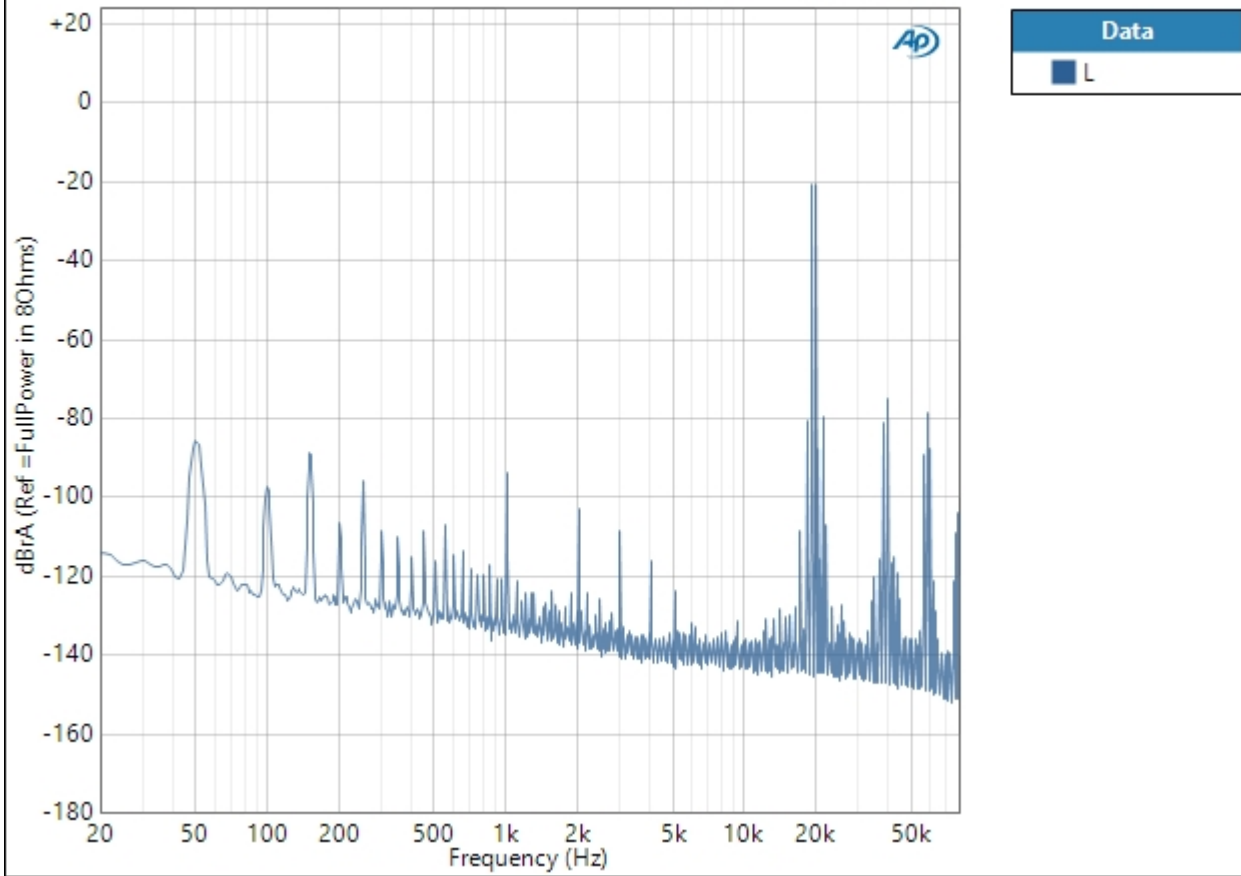
Waveform: Sine, Dual
Generator Level: 68.00 mVrms
DC Offset: 0.000 V
Frequency: 19.0000 kHz
Frequency B: 20.0000 kHz
IMD Split: No
FB:FA Ratio: 1.000 x/y
Secondary Source: None
Measured 1 2020-07-11 07:21:11
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 128K
Averaging: Power
Averages: 16
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (2020-07-11 07:21:11.179)

Sequence Report

FFT Spectrum

2020-07-11 07:21:11.179



Result: PASSED