

## Notes:

This is a test of a representative sample. 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@schiiit.com](mailto:info@schiiit.com) so we can have a look.

## Summary

## 8 Ohm Stereo

Level and Gain	✓ PASSED
DC Level	✓ PASSED
Signal Analyzer	✓ PASSED
Frequency Response	✓ PASSED
Signal to Noise Ratio	✓ PASSED
THD+N	✓ PASSED
IMD Frequency Sweep ( CCIF )	✓ PASSED
Crosstalk, One Channel Undriven	✓ PASSED
Stepped Level Sweep	✓ PASSED

## 4 Ohm Stereo

Level and Gain	✓ PASSED
DC Level	✓ PASSED
Signal Analyzer	✓ PASSED
THD+N	✓ PASSED
Stepped Level Sweep	✓ PASSED

## 8 Ohm Mono

Level and Gain	✓ PASSED
DC Level	✓ PASSED
Signal Analyzer	✓ PASSED
Signal to Noise Ratio	✓ PASSED
THD+N	✓ PASSED
Stepped Level Sweep	✓ PASSED

## Sequence Result:

Sequence Result: ✓ PASSED

## APx Instrument

Instrument ID: 11571  
Calibration Date: 3/23/2021  
APx Version: 6.0.2.600.149330

## 8 Ohm Stereo : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Source Impedance:	20 ohm, 20 ohm
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Channels:	2
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• 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
Analog Input	
dBrA:	1.000 Vrms
dBrB:	1.000 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	10.00 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

## • DCX

DCX is not detected.

12/19/2023 1:12 PM

## • 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

## 8 Ohm Stereo : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	110.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

## RMS Level (12/19/2023 12:57:56.266 PM)

Ch1 0.973 Vrms  
Ch2 0.973 Vrms

## 8 Ohm Stereo : 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

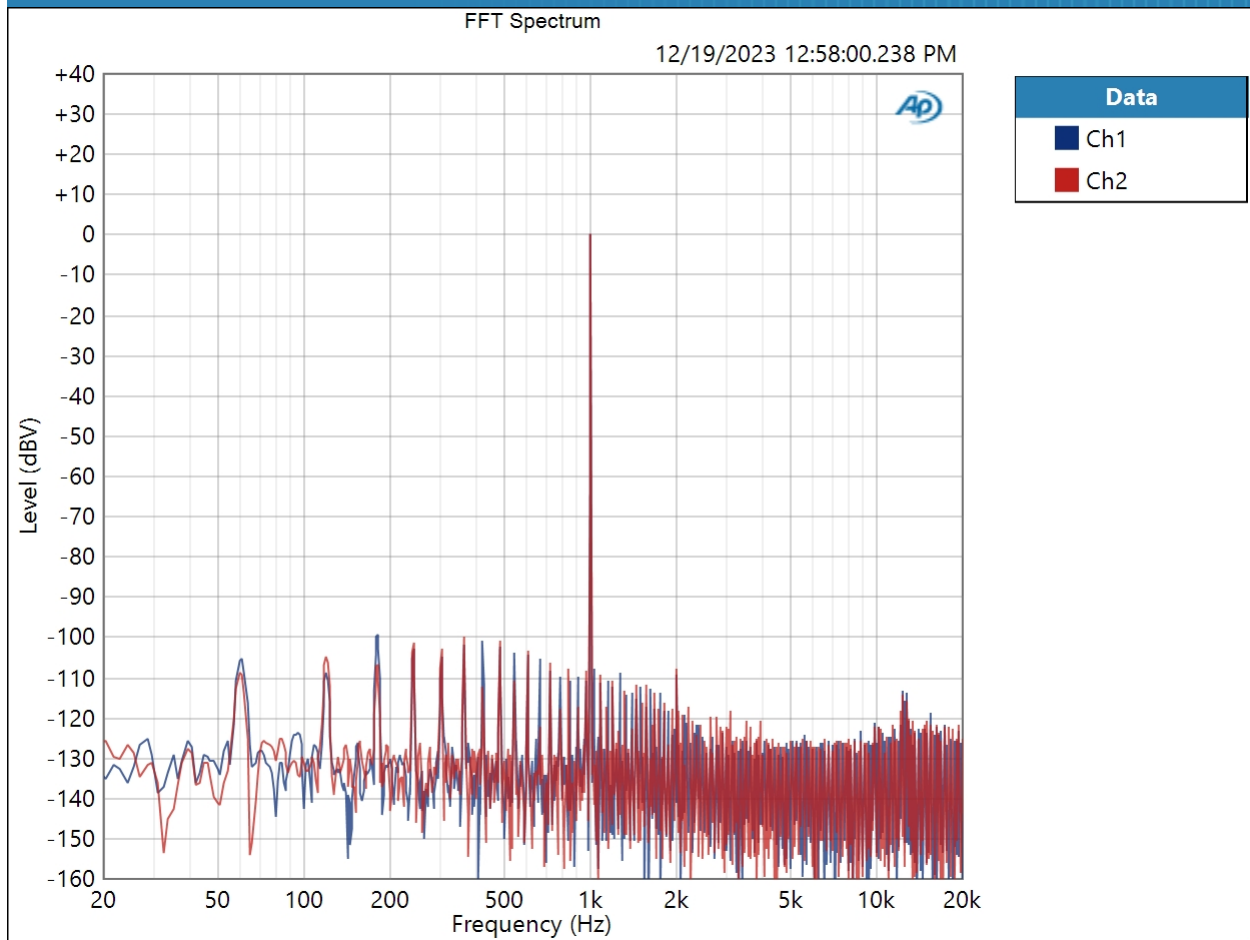
## DC Level (12/19/2023 12:57:57.789 PM)

Ch1 1.038 mV  
Ch2 1.275 mV

8 Ohm Stereo : Signal Analyzer

Waveform: Sine  
Generator Mode: High Performance Sine Generator  
Precision Tune: Disabled  
Generator Level: 110.0 mVrms  
Frequency: 1.00000 kHz  
Secondary Source: None  
Measured 1 12/19/2023 12:58:00 PM  
Acquisition Type: Auto  
Trigger: Free Run  
Delay Time: 100.0 ms  
Input Bandwidth: Use Signal Path  
FFT Length: 32K  
Averaging: Power  
Averages: 1  
Window: AP-Equiripple  
Record Acquisition: False  
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (12/19/2023 12:58:00.238 PM)

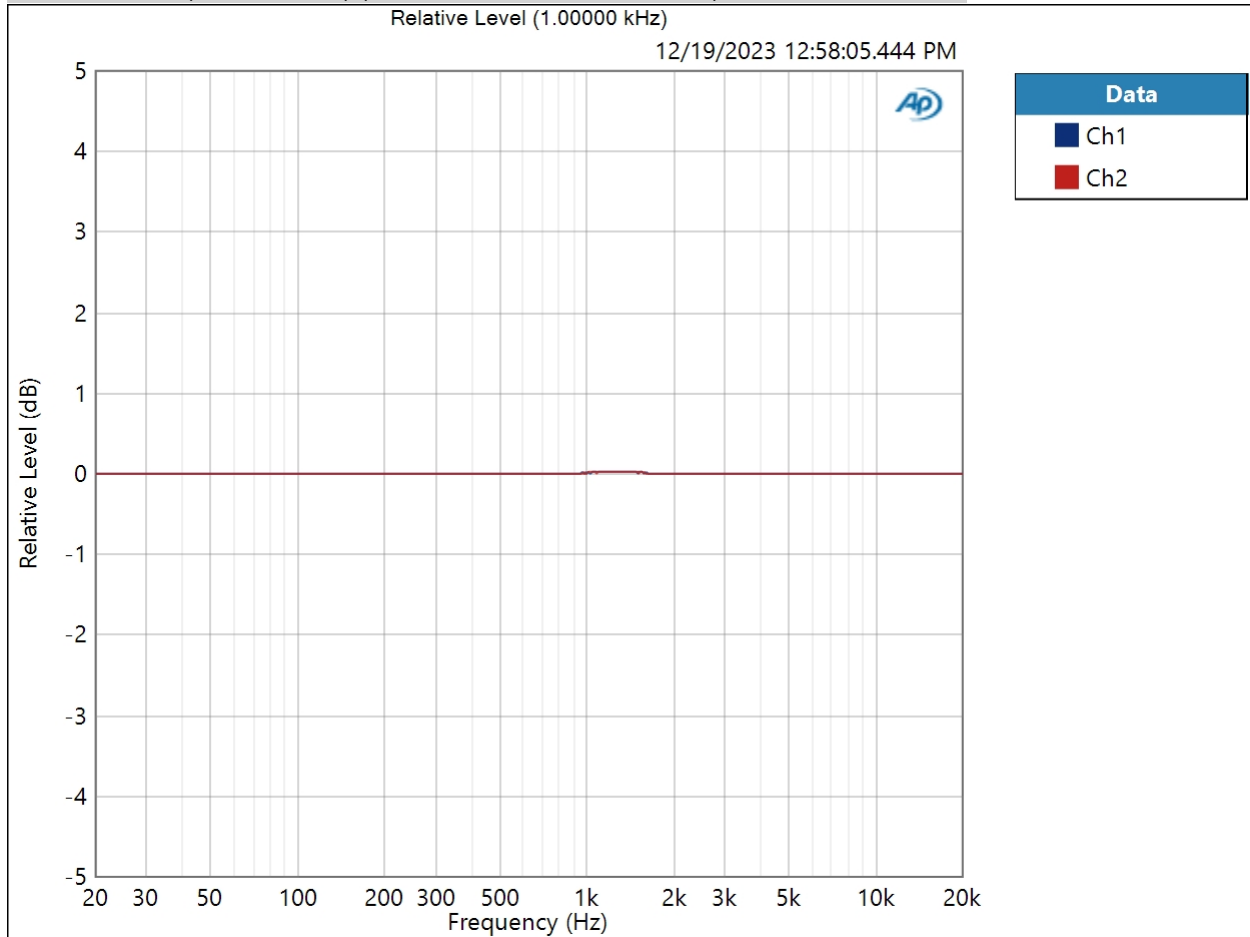


Result:  PASSED

8 Ohm Stereo : Frequency Response

Start Frequency: 20.0000 Hz  
Stop Frequency: 20.0000 kHz  
Generator Level: 110.0 mVrms  
DC Offset: 0.000 V  
EQ: None  
Pre-Sweep: 100.0 ms  
Sweep: 350.0 ms  
Extend Acquisition By: 1.000 s  
Secondary Source: None  
Measured 1 12/19/2023 12:58:05 PM

Relative Level (1.00000 kHz) (12/19/2023 12:58:05.444 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) (12/19/2023 12:58:05.444 PM)

Ch1  $\pm 0.018$  dB

Ch2  $\pm 0.015$  dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

8 Ohm Stereo : Signal to Noise Ratio

Waveform: Sine

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 1.700 Vrms

Frequency: 1.00000 kHz

High-pass Filter: Elliptic

High-pass Frequency: 20 Hz

Low-pass Filter: Elliptic

Low-pass Frequency: 20 kHz

Weighting Filter: A-wt.

Signal to Noise Ratio (12/19/2023 12:58:08.324 PM)

Ch1 116.327 dB

Ch2 116.983 dB

8 Ohm Stereo : THD+N

Waveform: Sine  
 Generator Mode: High Performance Sine Generator  
 Precision Tune: Disabled  
 Generator Level: 110.0 mVrms  
 Frequency: 1.00000 kHz  
 High-pass Filter: Elliptic  
 High-pass Frequency: 20 Hz  
 Low-pass Filter: Elliptic  
 Low-pass Frequency: 20 kHz  
 Weighting Filter: Signal Path  
 Notch Tuning Mode: Measured Frequency

THD+N Ratio (12/19/2023 12:58:11.275 PM)

Ch1 0.003242 %  
 Ch2 0.003023 %

THD Ratio (12/19/2023 12:58:11.275 PM)

Ch1 0.000450 %  
 Ch2 0.000532 %

Noise Ratio (12/19/2023 12:58:11.275 PM)

Ch1 0.003194 %  
 Ch2 0.002995 %

Distortion Product Ratio (12/19/2023 12:58:11.275 PM)

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	-0.00	-109.15	-124.83	-122.03	-125.29	-124.49	-122.68	-124.10	-125.52	-126.33
Ch2	-0.00	-107.49	-120.47	-122.06	-130.42	-125.83	-127.81	-122.61	-126.16	-123.15

Distortion Product Ratio Parameters

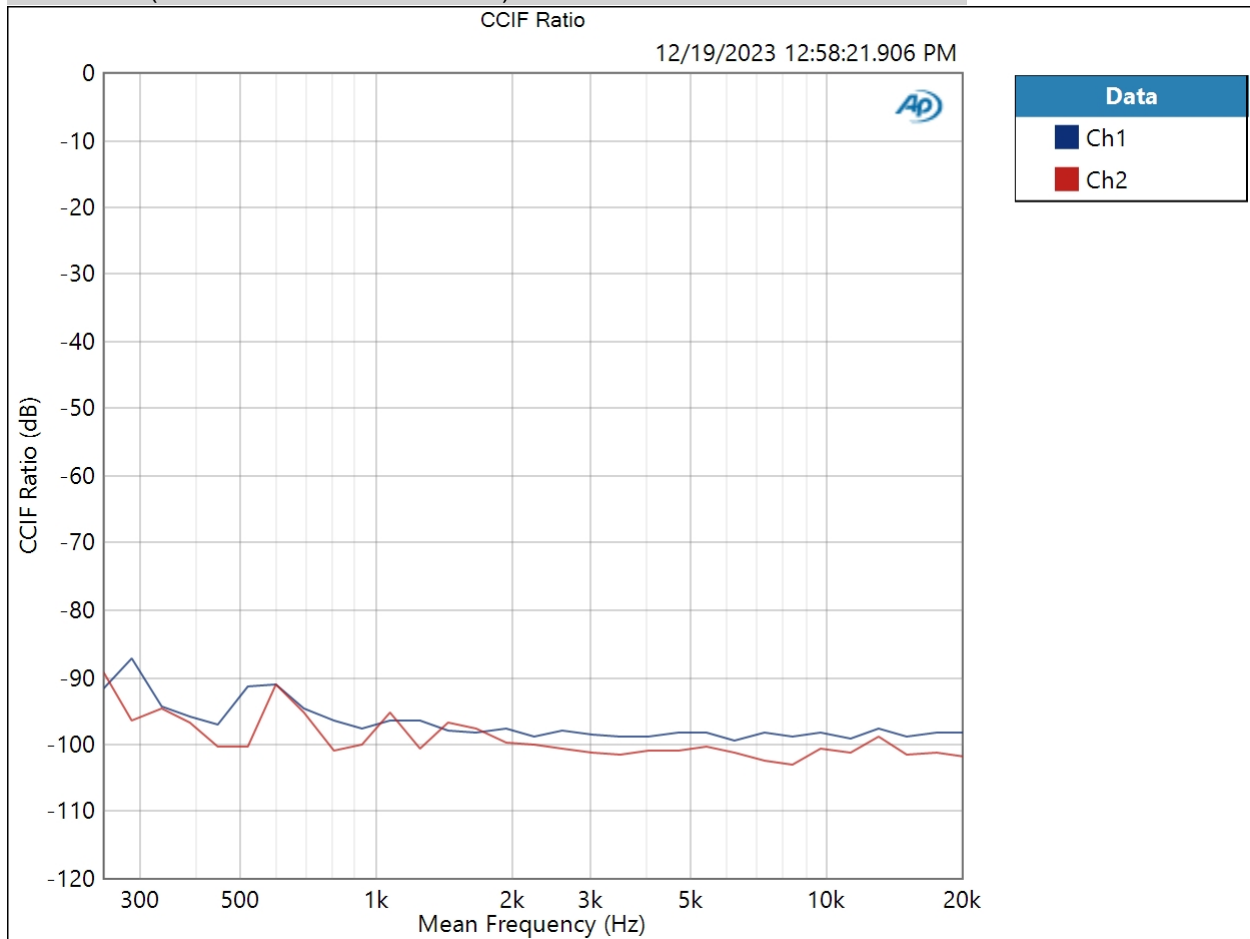
Frequency Unit: Hz  
 Ratio Unit: dB  
 Channel: Ch1



8 Ohm Stereo : IMD Frequency Sweep ( CCIF )

Generator Level: 110.0 mVrms  
 DC Offset: 0.000 V  
 Sweep Frequency: Mean Frequency  
 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 12/19/2023 12:58:21 PM

CCIF Ratio (12/19/2023 12:58:21.906 PM)



Result:  PASSED

8 Ohm Stereo : Crosstalk, One Channel Undriven

Waveform: Sine  
Generator Mode: High Performance Sine Generator  
Precision Tune: Disabled  
Generator Level: 110.0 mVrms  
Frequency: 10.0000 kHz

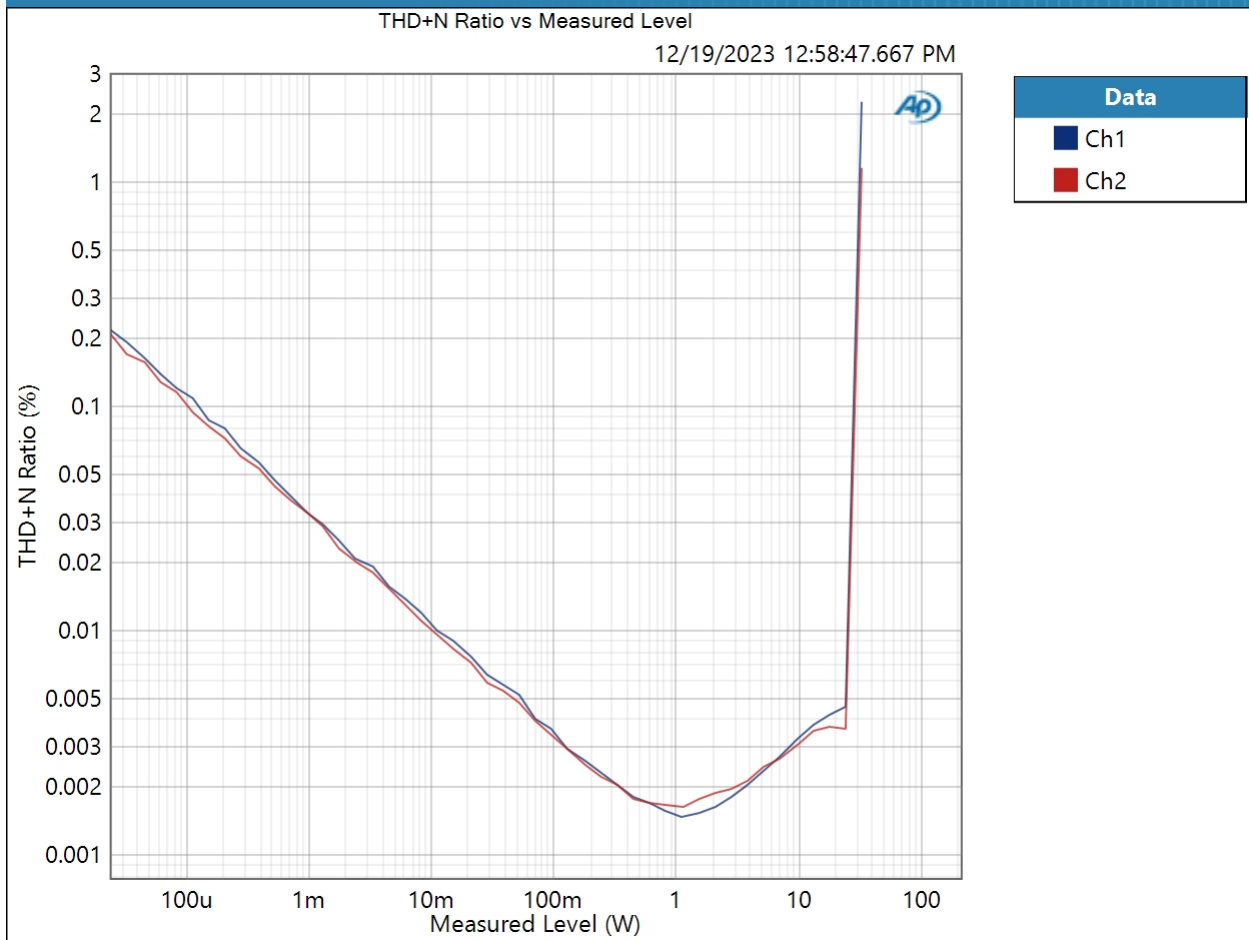
Crosstalk (12/19/2023 12:58:24.350 PM)

Ch1 75.704 dB  
Ch2 77.793 dB

## 8 Ohm Stereo : Stepped Level Sweep

Waveform: Sine  
Generator Mode: High Performance Sine Generator  
Precision Tune: Disabled  
Frequency: 1.00000 kHz  
Start Level: 1.000 mVrms  
Stop Level: 1.800 Vrms  
Step Type: Logarithmic  
Number of Points: 50  
High-pass Filter: Elliptic  
High-pass Frequency: 20 Hz  
Low-pass Filter: Elliptic  
Low-pass Frequency: 20 kHz  
Weighting Filter: Signal Path  
Notch Tuning Mode: Generator Frequency  
Measured 1 12/19/2023 12:58:47 PM

THD+N Ratio vs Measured Level (12/19/2023 12:58:47.667 PM)



Result: PASSED

## 4 Ohm Stereo : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Source Impedance:	20 ohm, 20 ohm
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Channels:	2
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	100.0 mVrms
dBm (Output Power):	600.0 ohm
W(watts) (Output Power):	4.000 ohm
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	250.0 mVrms
dBrB:	1.000 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	10.00 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	4.000 ohm

## • DCX

DCX is not detected.

## • Clocks

12/19/2023 1:12 PM

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

#### 4 Ohm Stereo : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	110.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

#### RMS Level (12/19/2023 1:01:49.383 PM)

Ch1 887.1 mVrms  
Ch2 887.7 mVrms

#### 4 Ohm Stereo : 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

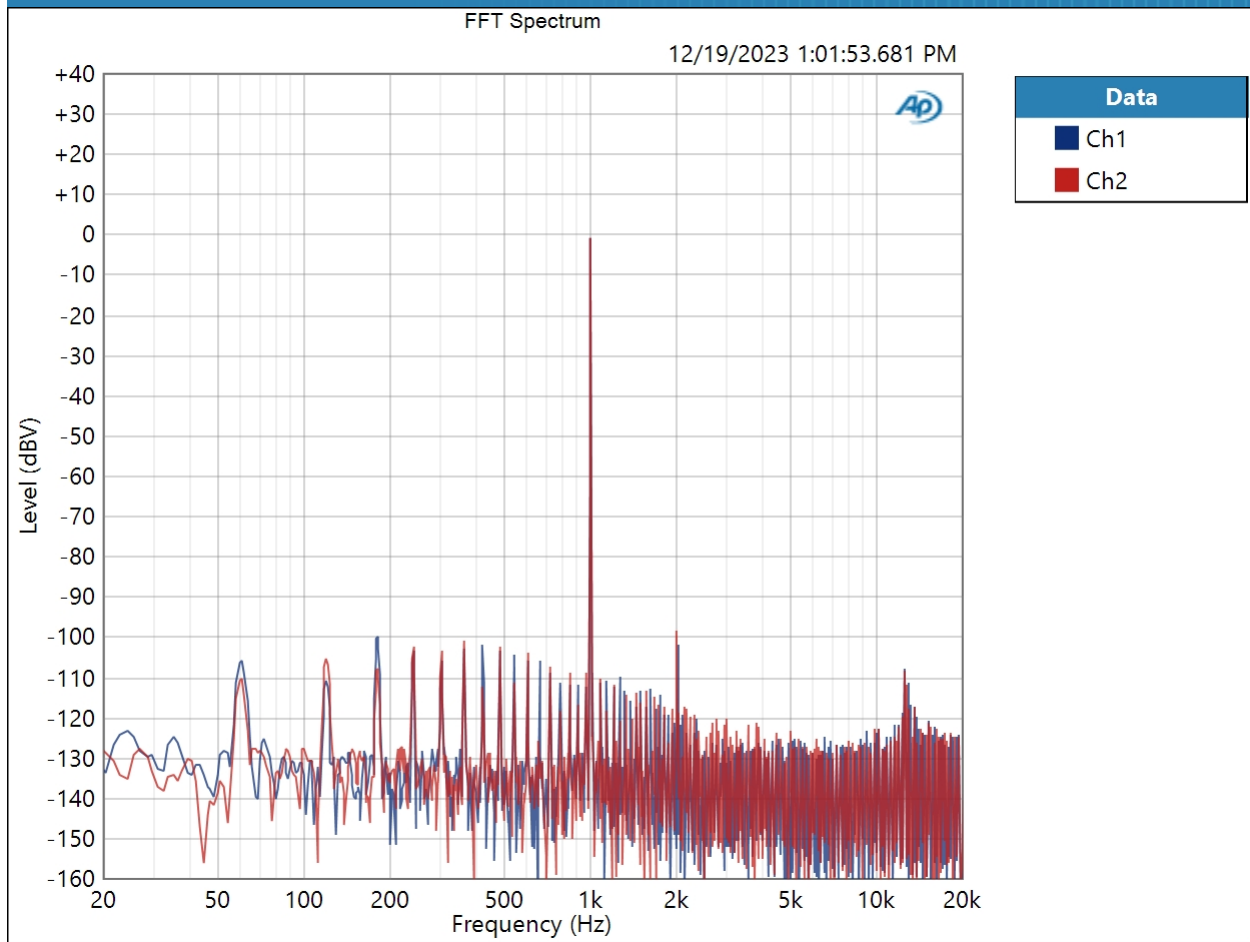
#### DC Level (12/19/2023 1:03:47.761 PM)

Ch1 -285.2 uV  
Ch2 563.2 uV

4 Ohm Stereo : Signal Analyzer

Waveform: Sine  
Generator Mode: High Performance Sine Generator  
Precision Tune: Disabled  
Generator Level: 110.0 mVrms  
Frequency: 1.00000 kHz  
Secondary Source: None  
Measured 1 12/19/2023 1:01:53 PM  
Acquisition Type: Auto  
Trigger: Free Run  
Delay Time: 250.0 ms  
Input Bandwidth: Use Signal Path  
FFT Length: 32K  
Averaging: Power  
Averages: 1  
Window: AP-Equiripple  
Record Acquisition: False  
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (12/19/2023 1:01:53.681 PM)



Result: PASSED



4 Ohm Stereo : THD+N

Waveform: Sine  
 Generator Mode: High Performance Sine Generator  
 Precision Tune: Disabled  
 Generator Level: 110.0 mVrms  
 Frequency: 1.00000 kHz  
 High-pass Filter: Elliptic  
 High-pass Frequency: 20 Hz  
 Low-pass Filter: Elliptic  
 Low-pass Frequency: 20 kHz  
 Weighting Filter: Signal Path  
 Notch Tuning Mode: Measured Frequency

THD+N Ratio (12/19/2023 1:01:56.398 PM)

Ch1 0.003332 %  
 Ch2 0.003336 %

THD Ratio (12/19/2023 1:01:56.398 PM)

Ch1 0.000925 %  
 Ch2 0.001451 %

Noise Ratio (12/19/2023 1:01:56.398 PM)

Ch1 0.003217 %  
 Ch2 0.002964 %

Distortion Product Ratio (12/19/2023 1:01:56.398 PM)

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	-0.00	-101.12	-122.58	-123.88	-122.48	-125.24	-126.36	-124.71	-125.08	-130.39
Ch2	-0.00	-97.01	-118.55	-122.36	-126.08	-126.12	-126.06	-125.40	-123.45	-126.73

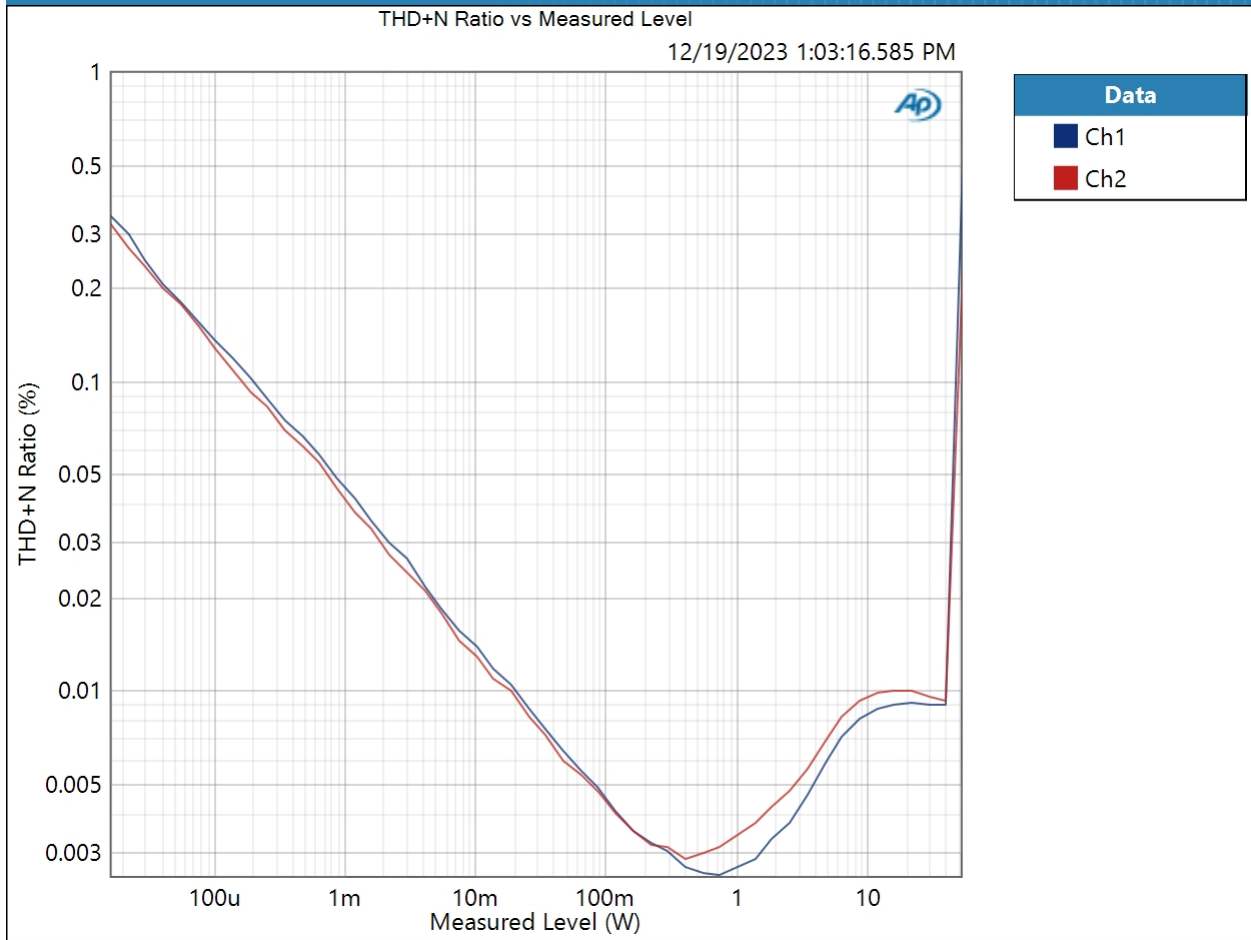
Distortion Product Ratio Parameters

Frequency Unit: Hz  
 Ratio Unit: dB  
 Channel: Ch1

## 4 Ohm Stereo : Stepped Level Sweep

Waveform: Sine  
Generator Mode: High Performance Sine Generator  
Precision Tune: Disabled  
Frequency: 1.00000 kHz  
Start Level: 1.000 mVrms  
Stop Level: 1.800 Vrms  
Step Type: Logarithmic  
Number of Points: 50  
High-pass Filter: Elliptic  
High-pass Frequency: 20 Hz  
Low-pass Filter: Elliptic  
Low-pass Frequency: 20 kHz  
Weighting Filter: Signal Path  
Notch Tuning Mode: Generator Frequency  
Measured 1 12/19/2023 1:03:16 PM

THD+N Ratio vs Measured Level (12/19/2023 1:03:16.585 PM)



Result: PASSED

## 8 Ohm Mono : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Channels:	1
Channel:	Ch1
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• 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
Analog Input	
dBrA:	1.000 Vrms
dBrB:	1.000 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	10.00 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm
12/19/2023 1:12 PM	

- 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

#### 8 Ohm Mono : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	110.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

#### RMS Level (12/19/2023 1:06:55.962 PM)

Ch1 1.070 Vrms

#### 8 Ohm Mono : 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

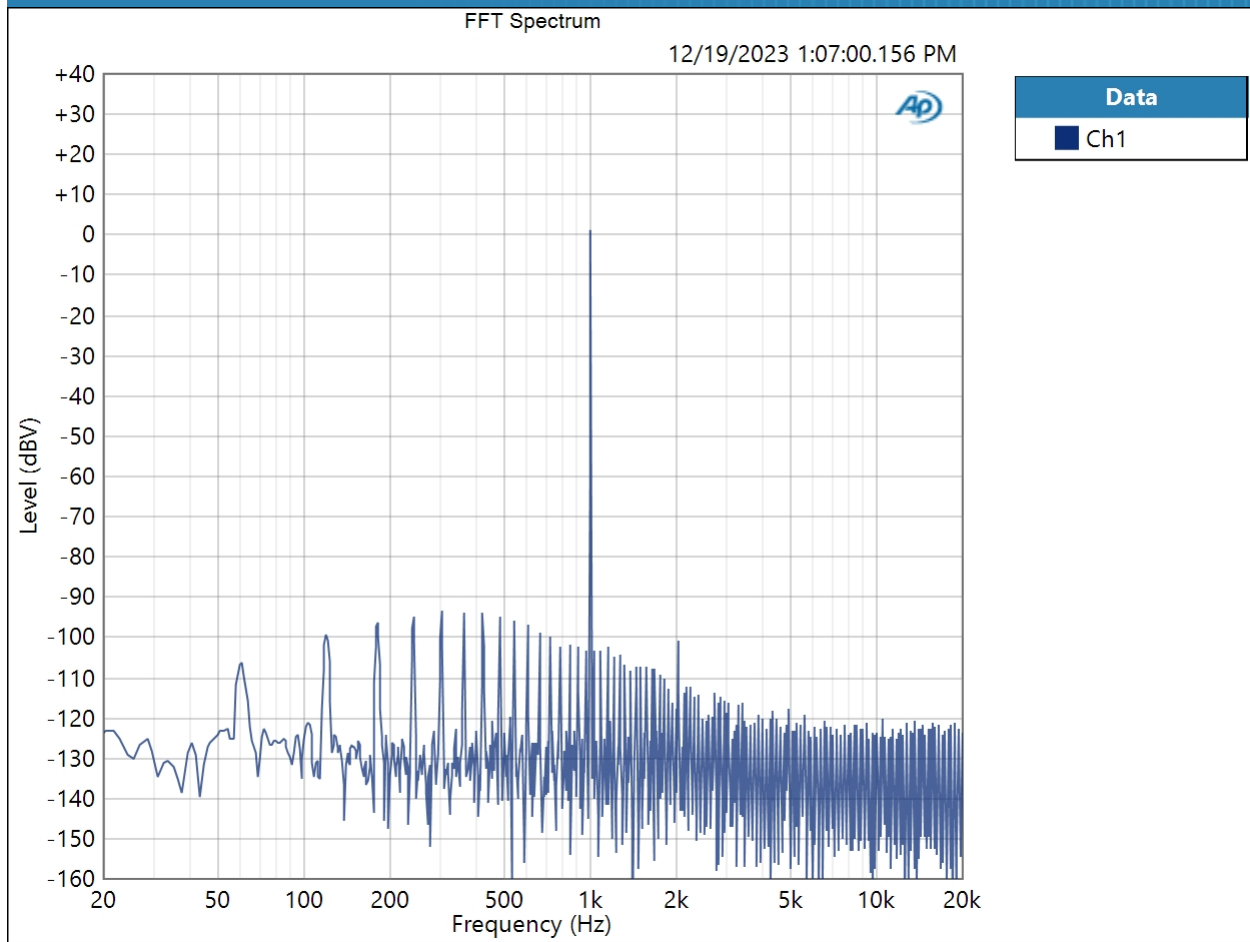
#### DC Level (12/19/2023 1:06:57.687 PM)

Ch1 -1.295 mV

## 8 Ohm Mono : Signal Analyzer

Waveform: Sine  
Generator Mode: High Performance Sine Generator  
Precision Tune: Disabled  
Generator Level: 110.0 mVrms  
Frequency: 1.00000 kHz  
Secondary Source: None  
Measured 1: 12/19/2023 1:07:00 PM  
Acquisition Type: Auto  
Trigger: Free Run  
Delay Time: 250.0 ms  
Input Bandwidth: Use Signal Path  
FFT Length: 32K  
Averaging: Power  
Averages: 1  
Window: AP-Equiripple  
Record Acquisition: False  
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (12/19/2023 1:07:00.156 PM)



Result: PASSED

8 Ohm Mono : Signal to Noise Ratio

Waveform: Sine  
Generator Mode: High Performance Sine Generator  
Precision Tune: Disabled  
Generator Level: 3.500 Vrms  
Frequency: 1.00000 kHz  
High-pass Filter: Elliptic  
High-pass Frequency: 20 Hz  
Low-pass Filter: Elliptic  
Low-pass Frequency: 20 kHz  
Weighting Filter: A-wt.

Signal to Noise Ratio (12/19/2023 1:12:05.400 PM)

Ch1 116.911 dB



8 Ohm Mono : THD+N

Waveform: Sine  
 Generator Mode: High Performance Sine Generator  
 Precision Tune: Disabled  
 Generator Level: 110.0 mVrms  
 Frequency: 1.00000 kHz  
 High-pass Filter: Elliptic  
 High-pass Frequency: 20 Hz  
 Low-pass Filter: Elliptic  
 Low-pass Frequency: 20 kHz  
 Weighting Filter: Signal Path  
 Notch Tuning Mode: Measured Frequency

THD+N Ratio (12/19/2023 1:07:05.929 PM)

Ch1 0.005683 %

THD Ratio (12/19/2023 1:07:05.929 PM)

Ch1 0.000935 %

Noise Ratio (12/19/2023 1:07:05.929 PM)

Ch1 0.005633 %

Distortion Product Ratio (12/19/2023 1:07:05.929 PM)

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	-0.00	-101.35	-120.91	-120.78	-118.44	-118.65	-130.13	-119.43	-121.59	-121.38

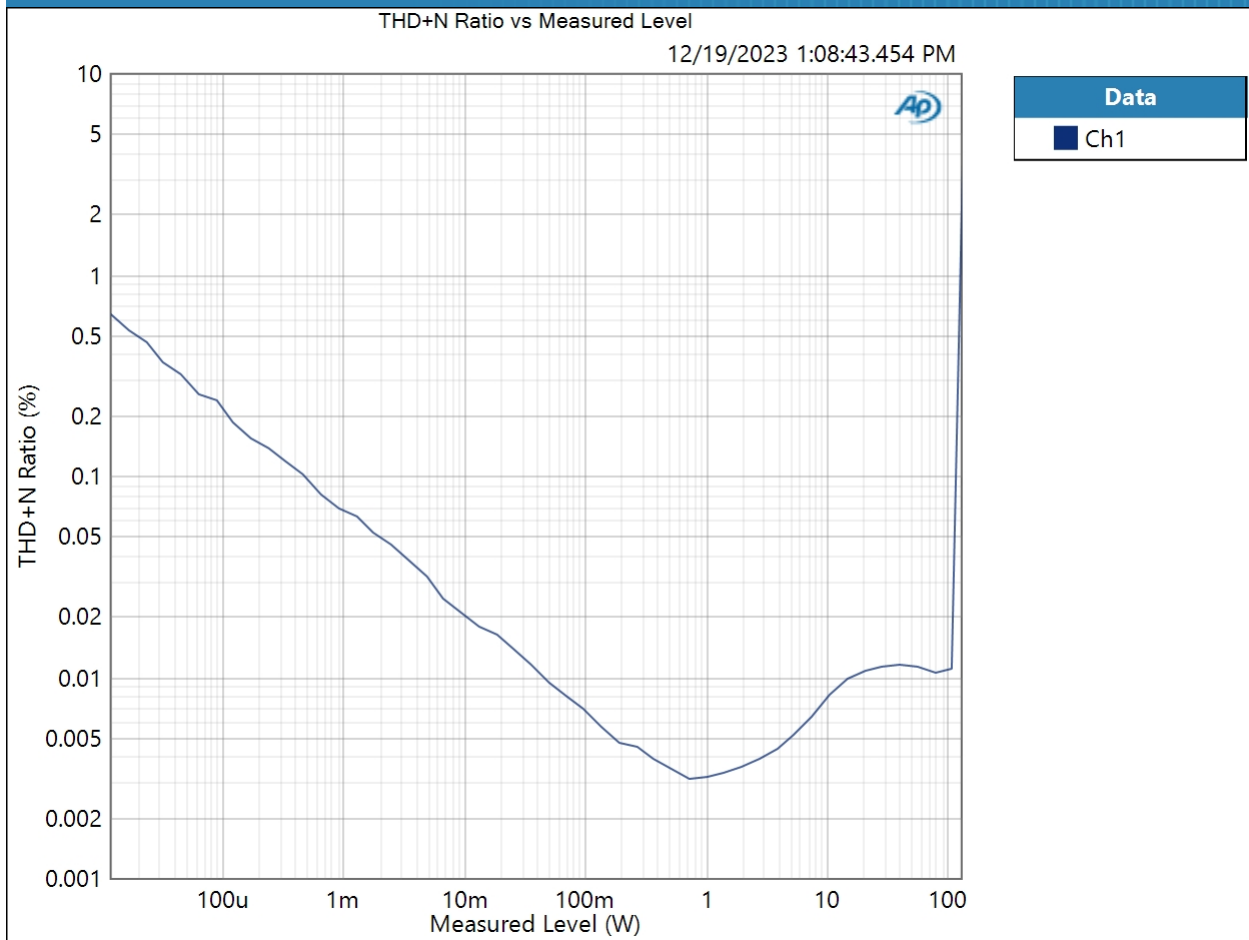
Distortion Product Ratio Parameters

Frequency Unit: Hz  
 Ratio Unit: dB  
 Channel: Ch1

## 8 Ohm Mono : Stepped Level Sweep

Waveform: Sine  
Generator Mode: High Performance Sine Generator  
Precision Tune: Disabled  
Frequency: 1.00000 kHz  
Start Level: 1.000 mVrms  
Stop Level: 3.500 Vrms  
Step Type: Logarithmic  
Number of Points: 50  
High-pass Filter: Elliptic  
High-pass Frequency: 20 Hz  
Low-pass Filter: Elliptic  
Low-pass Frequency: 20 kHz  
Weighting Filter: Signal Path  
Notch Tuning Mode: Generator Frequency  
Measured 1 12/19/2023 1:08:43 PM

THD+N Ratio vs Measured Level (12/19/2023 1:08:43.454 PM)



Result: PASSED