

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 so we can have a look.

Summary

40dB

Signal Path Setup	✓ PASSED
Level and Gain	✓ PASSED
Signal Analyzer	✓ PASSED
Frequency Response	✓ PASSED
Signal to Noise Ratio	✓ PASSED
THD+N	✓ PASSED
Stepped Level Sweep	✓ PASSED

60dB

Signal Path Setup	✓ PASSED
Level and Gain	✓ PASSED
Signal Analyzer	✓ PASSED
Frequency Response	✓ PASSED
Signal to Noise Ratio	✓ PASSED
THD+N	✓ PASSED
Stepped Level Sweep	✓ PASSED

Sequence Result:

Sequence Result: ✓ PASSED

APx Instrument

Instrument ID: 100546525
Calibration Date: 2/10/2021
APx Version: 7.1.0.321

40dB : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Source Impedance:	20 ohm
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Unbalanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Termination:	100 kohm
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.	

40dB : Verify Connections

Waveform: Sine
Generator Level: 38.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz

Gain (2/19/2025 1:35:15.307 PM)

Ch1 39.953 dB
Ch2 39.707 dB

40dB : Level and Gain

Waveform: Sine
Generator Level: 21.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Low-pass Filter: Signal Path

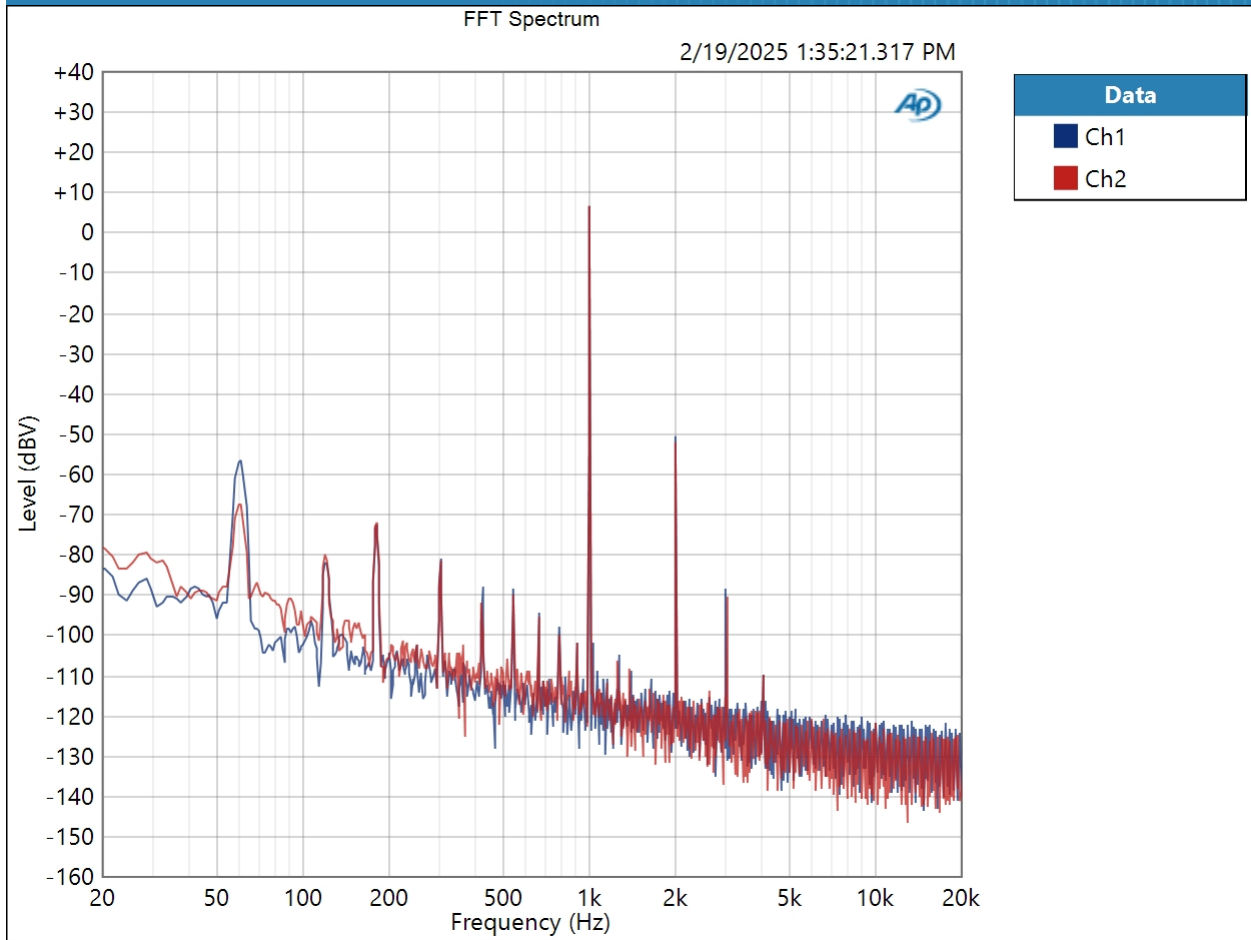
RMS Level (2/19/2025 1:35:17.264 PM)

Ch1 2.088 Vrms
Ch2 2.030 Vrms

40dB : Signal Analyzer

Waveform: Sine
Generator Level: 21.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1: 2/19/2025 1:35:21 PM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 32768
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (2/19/2025 1:35:21.317 PM)

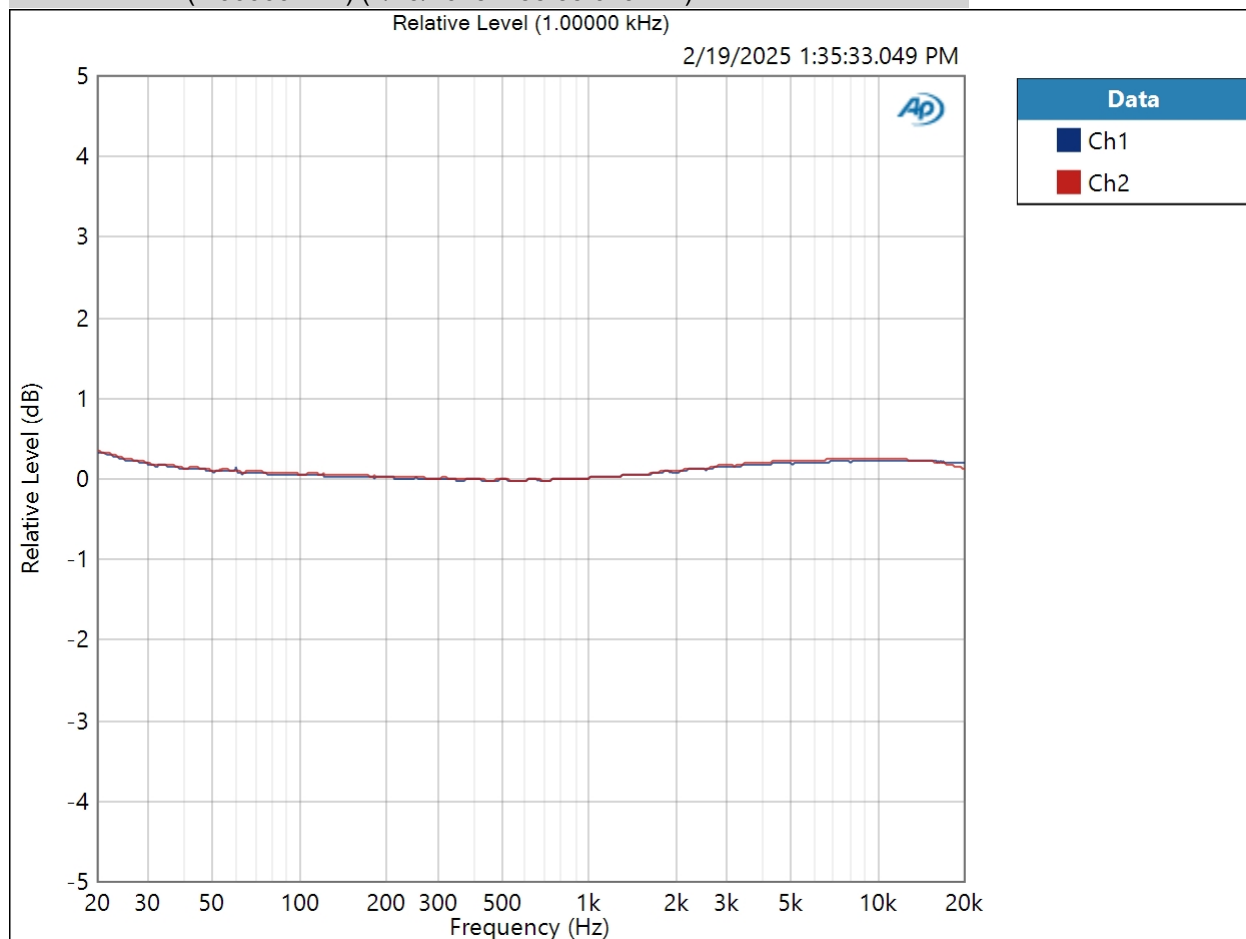


Result:  PASSED

40dB : Frequency Response

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: 21.00 mVrms
DC Offset: 0.000 V
EQ: Relative
Pre-Sweep: 100.0 ms
Sweep: 2.000 s
Extend Acquisition By: 3.000 s
Secondary Source: None
Measured 1 2/19/2025 1:35:33 PM

Relative Level (1.00000 kHz) (2/19/2025 1:35:33.049 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) (2/19/2025 1:35:33.049 PM)

Ch1 ± 0.179 dB

Ch2 ± 0.183 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

40dB : Signal to Noise Ratio

Waveform: Sine
Generator Level: 21.00 mVrms
DC Offset: 0.000 V
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 (2/19/2025 1:35:35.336 PM)

Ch1 85.006 dB

Ch2 86.404 dB

40dB : THD+N

Waveform: Sine
 Generator Level: 22.00 mVrms
 DC Offset: 0.000 V
 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.
 Notch Tuning Mode: Measured Frequency

THD+N Ratio (2/19/2025 1:35:37.115 PM)

Ch1 -55.590 dB
 Ch2 -56.896 dB

THD Ratio (2/19/2025 1:35:37.115 PM)

Ch1 0.165456 %
 Ch2 0.142482 %

Noise Ratio (2/19/2025 1:35:37.115 PM)

Ch1 0.004829 %
 Ch2 0.003950 %

Distortion Product Ratio (2/19/2025 1:35:37.115 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	-55.63	-92.55	-115.98	-119.79	-124.25	-125.22	-124.07	-127.87	-128.96
Ch2	-0.00	-56.93	-94.22	-112.79	-122.37	-121.18	-128.43	-133.81	-129.15	-128.74

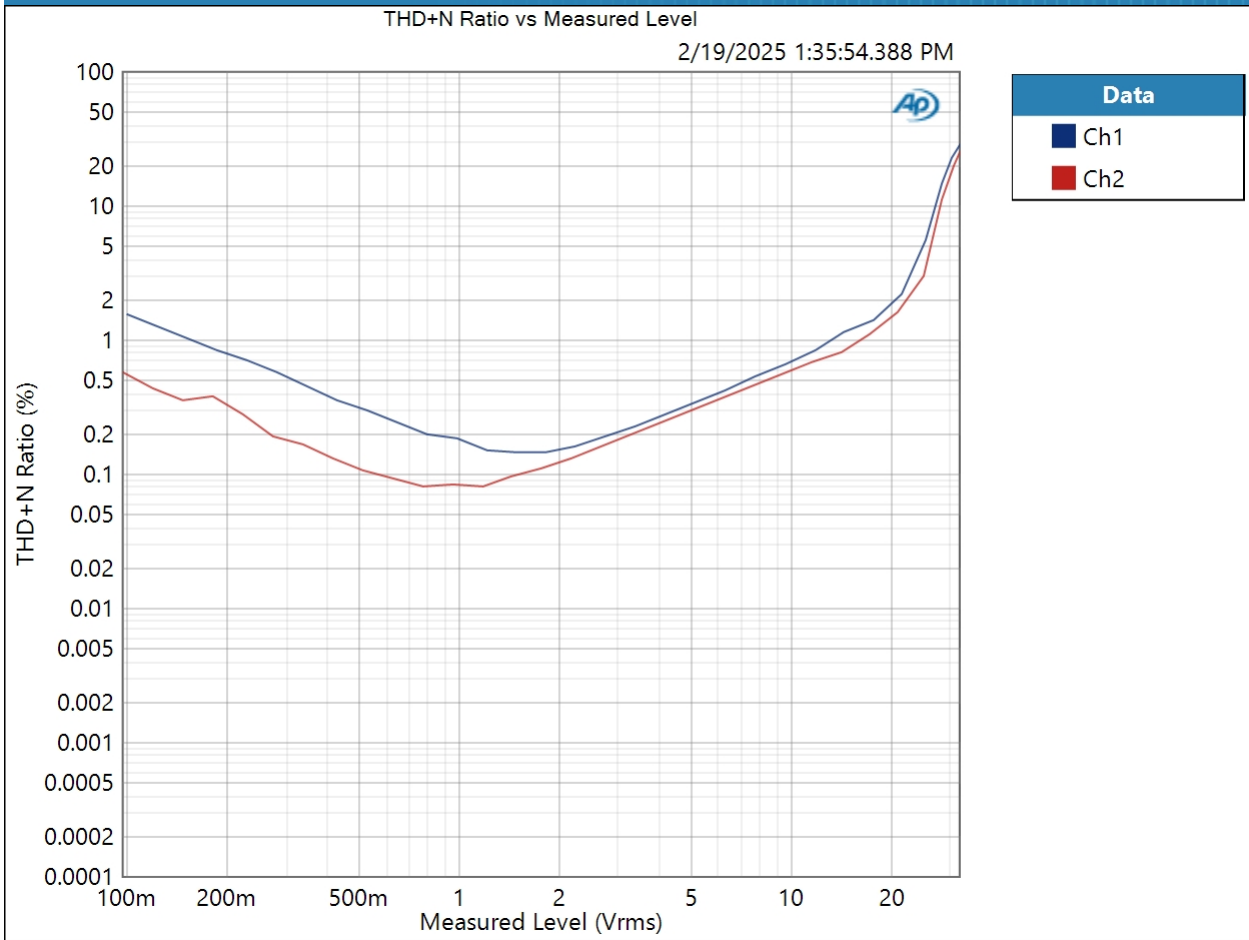
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

40dB : Stepped Level Sweep

Waveform: Sine
Frequency: 1.00000 kHz
Start Level: 1.000 mVrms
Stop Level: 500.0 mVrms
Step Type: Logarithmic
Number of Points: 31
Offset: 0.000 V
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 2/19/2025 1:35:54 PM

THD+N Ratio vs Measured Level (2/19/2025 1:35:54.388 PM)



Result: PASSED

60dB : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Source Impedance:	20 ohm
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Unbalanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Termination:	100 kohm
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.	

60dB : Verify Connections

Waveform: Sine
Generator Level: 38.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz

Gain (2/19/2025 1:39:09.424 PM)

Ch1 58.056 dB
Ch2 57.881 dB

60dB : Level and Gain

Waveform: Sine
Generator Level: 2.500 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Low-pass Filter: Signal Path

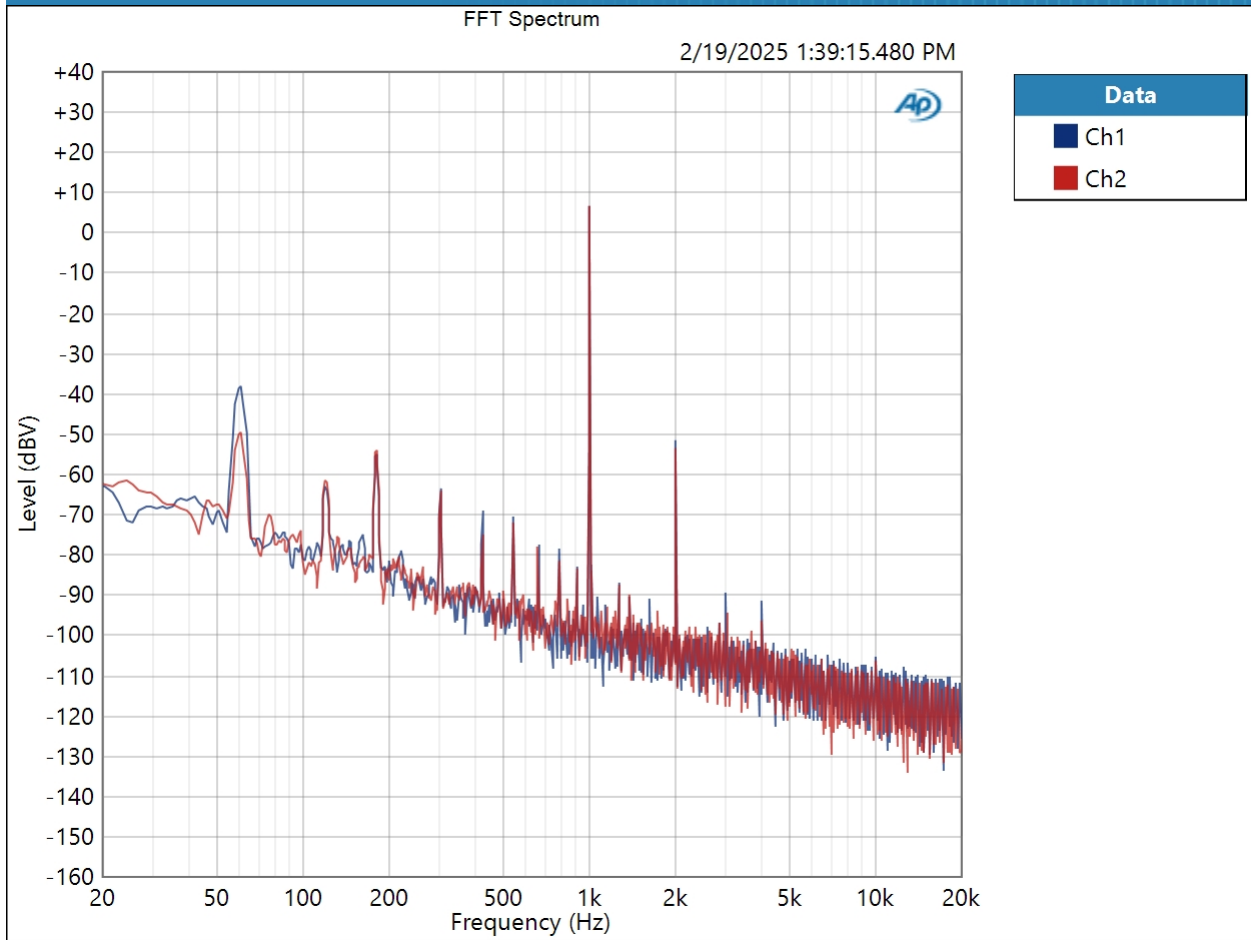
RMS Level (2/19/2025 1:39:11.435 PM)

Ch1 2.105 Vrms
Ch2 2.025 Vrms

60dB : Signal Analyzer

Waveform: Sine
Generator Level: 2.500 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1: 2/19/2025 1:39:15 PM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 32768
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (2/19/2025 1:39:15.480 PM)

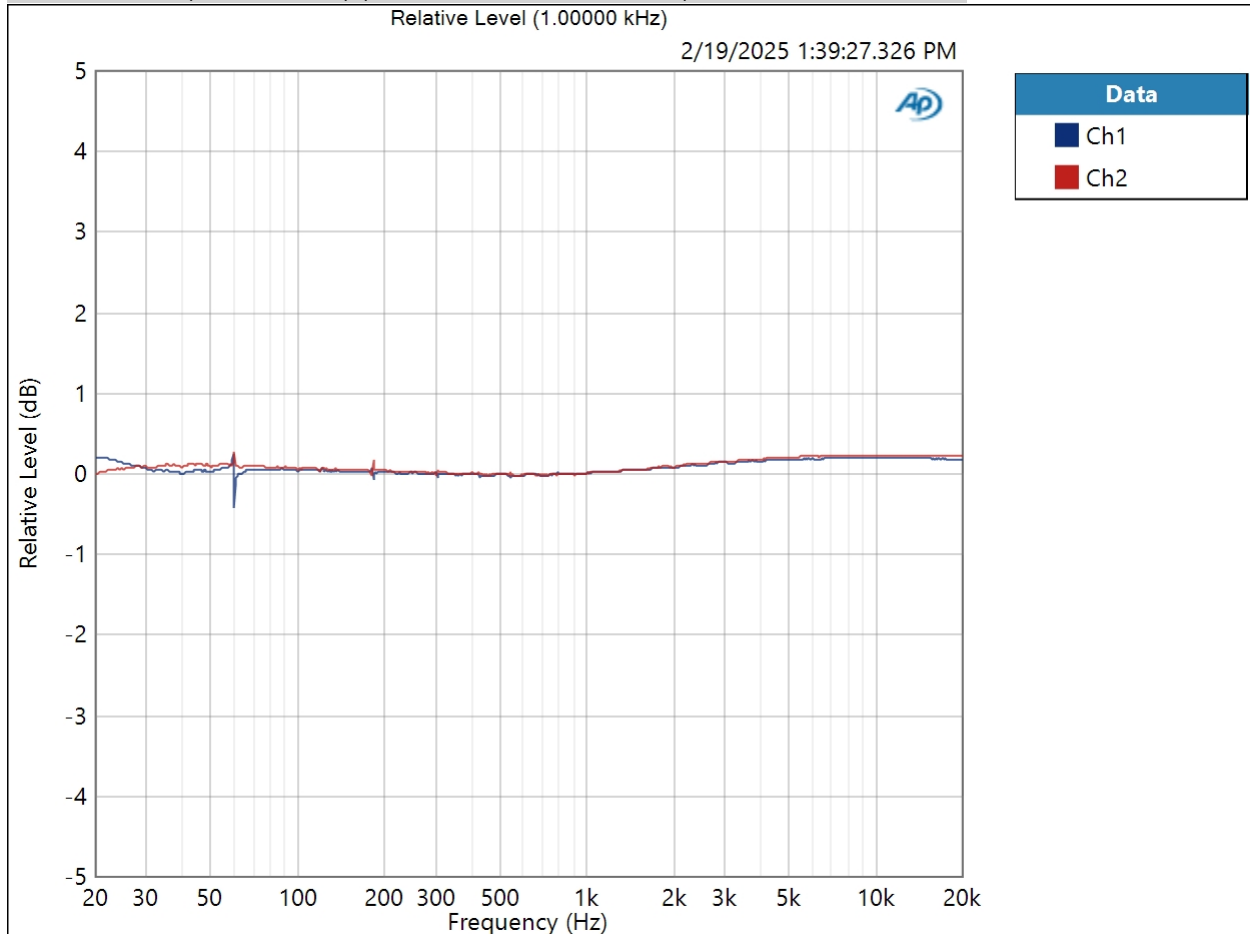


Result:  PASSED

60dB : Frequency Response

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: 2.500 mVrms
DC Offset: 0.000 V
EQ: Relative
Pre-Sweep: 100.0 ms
Sweep: 2.000 s
Extend Acquisition By: 3.000 s
Secondary Source: None
Measured 1 2/19/2025 1:39:27 PM

Relative Level (1.00000 kHz) (2/19/2025 1:39:27.326 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) (2/19/2025 1:39:27.326 PM)

Ch1 ± 0.331 dB

Ch2 ± 0.145 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

60dB : Signal to Noise Ratio

Waveform: Sine
Generator Level: 2.500 mVrms
DC Offset: 0.000 V
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 (2/19/2025 1:39:29.554 PM)

Ch1 67.524 dB

Ch2 68.567 dB

60dB : THD+N

Waveform: Sine
 Generator Level: 2.500 mVrms
 DC Offset: 0.000 V
 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.
 Notch Tuning Mode: Measured Frequency

THD+N Ratio (2/19/2025 1:39:31.392 PM)

Ch1 -56.802 dB
 Ch2 -58.123 dB

THD Ratio (2/19/2025 1:39:31.392 PM)

Ch1 0.138054 %
 Ch2 0.118102 %

Noise Ratio (2/19/2025 1:39:31.392 PM)

Ch1 0.041162 %
 Ch2 0.036710 %

Distortion Product Ratio (2/19/2025 1:39:31.392 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	-57.20	-93.30	-94.50	-106.44	-109.49	-111.94	-106.51	-113.40	-114.96
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-58.56	-96.97	-99.30	-106.43	-105.57	-110.23	-112.03	-118.22	-110.31

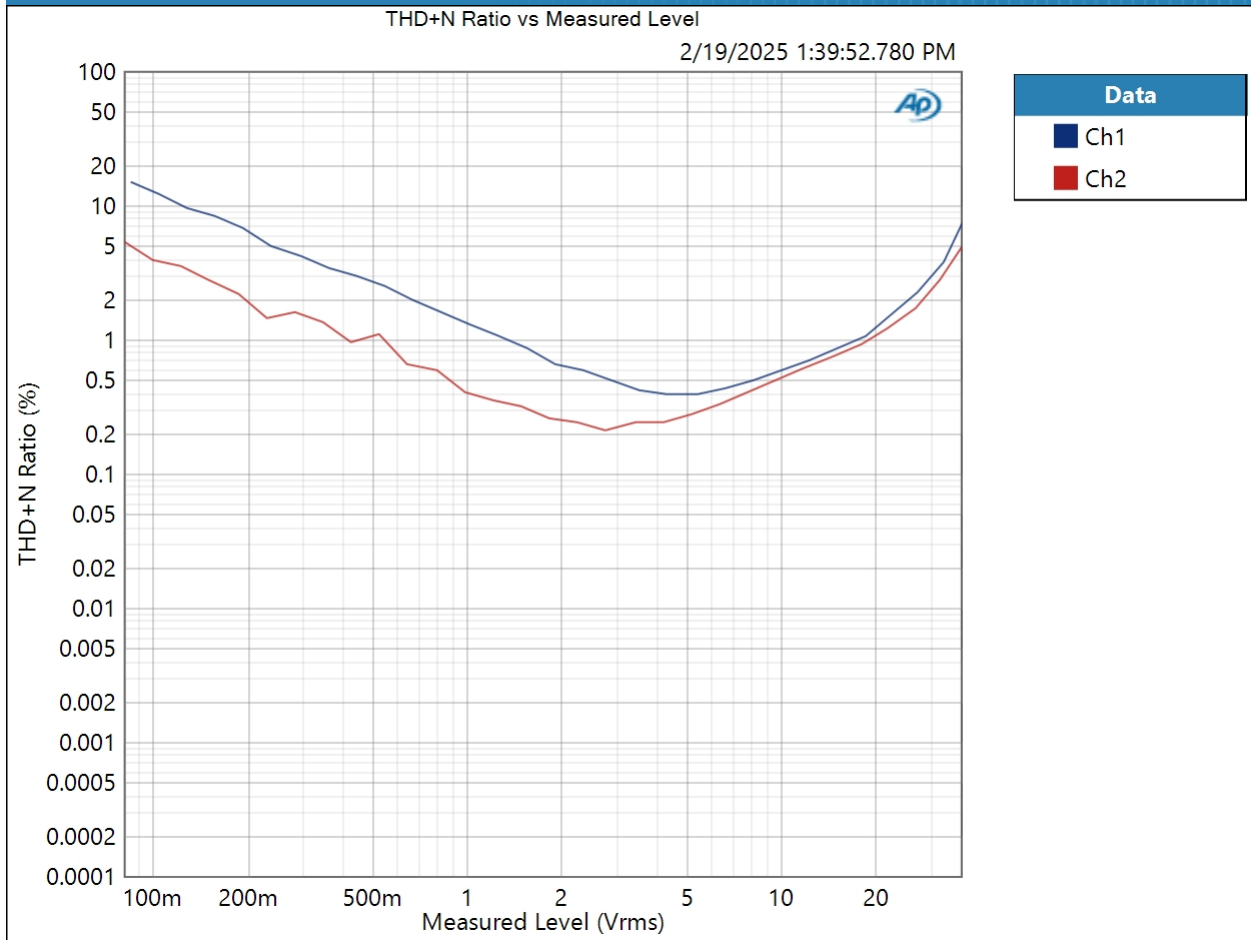
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

60dB : Stepped Level Sweep

Waveform: Sine
Frequency: 1.00000 kHz
Start Level: 100.0 uVrms
Stop Level: 50.00 mVrms
Step Type: Logarithmic
Number of Points: 31
Offset: 0.000 V
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 2/19/2025 1:39:52 PM

THD+N Ratio vs Measured Level (2/19/2025 1:39:52.780 PM)



Result: PASSED