

Notes:

This is a test of a representative production line sample. If you have difficulties reproducing these results, check your analyzer set-up and ancillary equipment carefully. ensure your analyzer has had a recent calibration, and contact the analyzer manufacturer for help if necessary. If you still have significantly different results, please contact info@schitt.com with a copy of your results so we can bring back your product and check it against our standard.

Summary

Optical USB Power

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

AES Linear Power

Level and Gain	✓ PASSED
Signal Analyzer	✓ PASSED
Frequency Response	✓ PASSED
Signal to Noise Ratio	✓ PASSED
THD+N	✓ 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: 100546525
Calibration Date: 2/10/2021
APx Version: 7.1.0.321

Optical USB Power : Signal Path Setup

Output Connector: ASIO
Asio Device: ASIO4ALL v2
Scaling Mode: Digital
Output Sample Rate: 44.1000 kHz
Output Latency: Auto
Buffer Size: 1024
Clock Source: Big Ben
Input 1: Digital Optical
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) - Fs/2
Input EQ: None
Input Bit Depth: 24
Scale Freq By: Input SR
Input 2: None
Device Delay: 0.000 s

- References

dBr G: -20.000 dBFS
Shared Frequency Reference: 1.00000 kHz

Digital Input

dBrA: 0.000 dBFS
dBrB: 0.000 dBFS
dBrA Offset: 0.000 dB
dBrB Offset: 0.000 dB
dBSPL1: -40.000 dBFS
dBSPL2: -40.000 dBFS
dBSPL1 Calibrator Level: 94.000 dB SPL
dBSPL2 Calibrator Level: 94.000 dB SPL

- DCX

DCX is not detected.

Optical USB Power : Level and Gain

Waveform: Sine

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Frequency: 1.00000 kHz

Low-pass Filter: Signal Path

RMS Level (3/24/2026 9:11:36.642 AM)

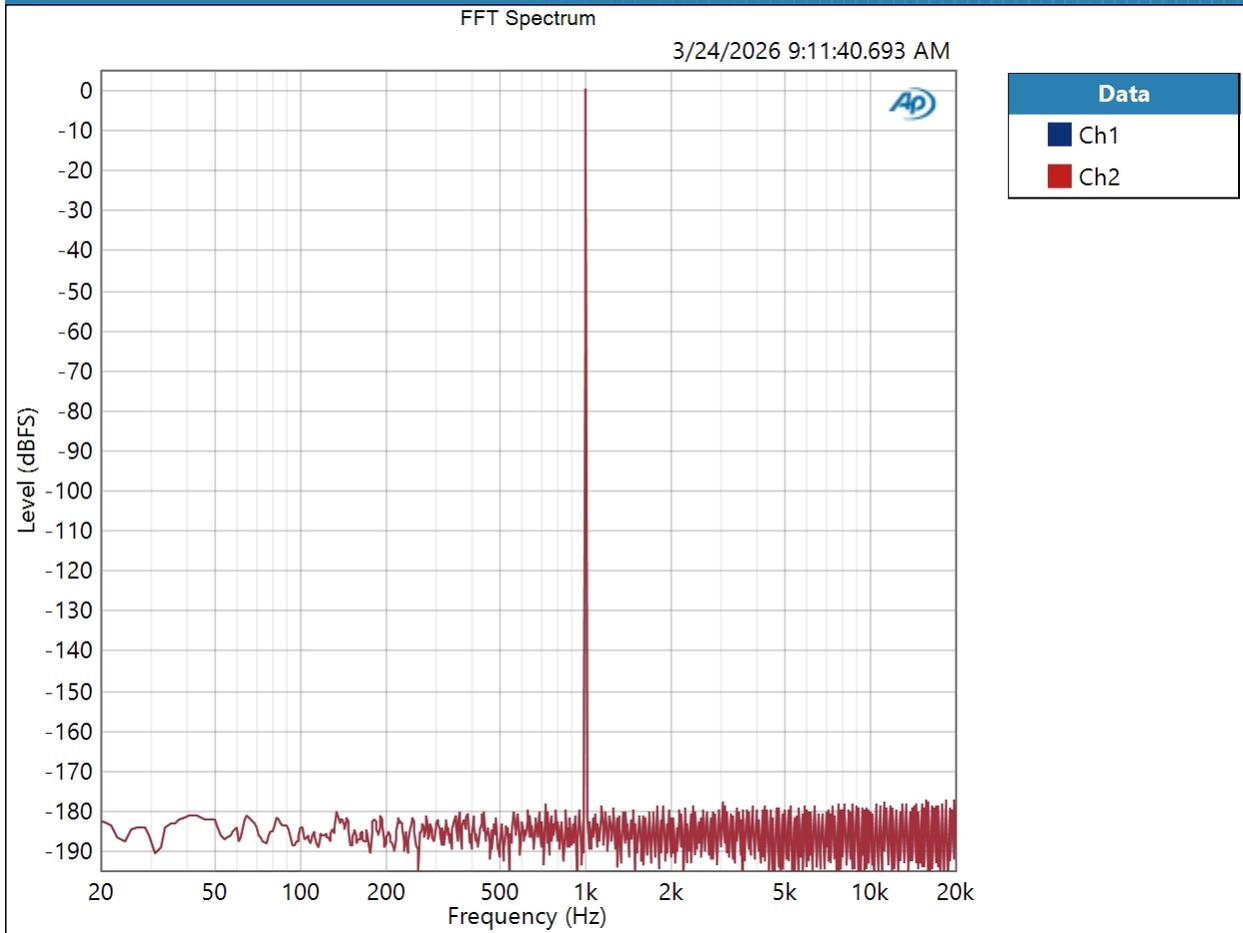
Ch1 -0.000 dBFS

Ch2 -0.000 dBFS

Optical USB Power : Signal Analyzer

Waveform: Sine
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 3/24/2026 9:11:40 AM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
FFT Length: 32768
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (3/24/2026 9:11:40.693 AM)

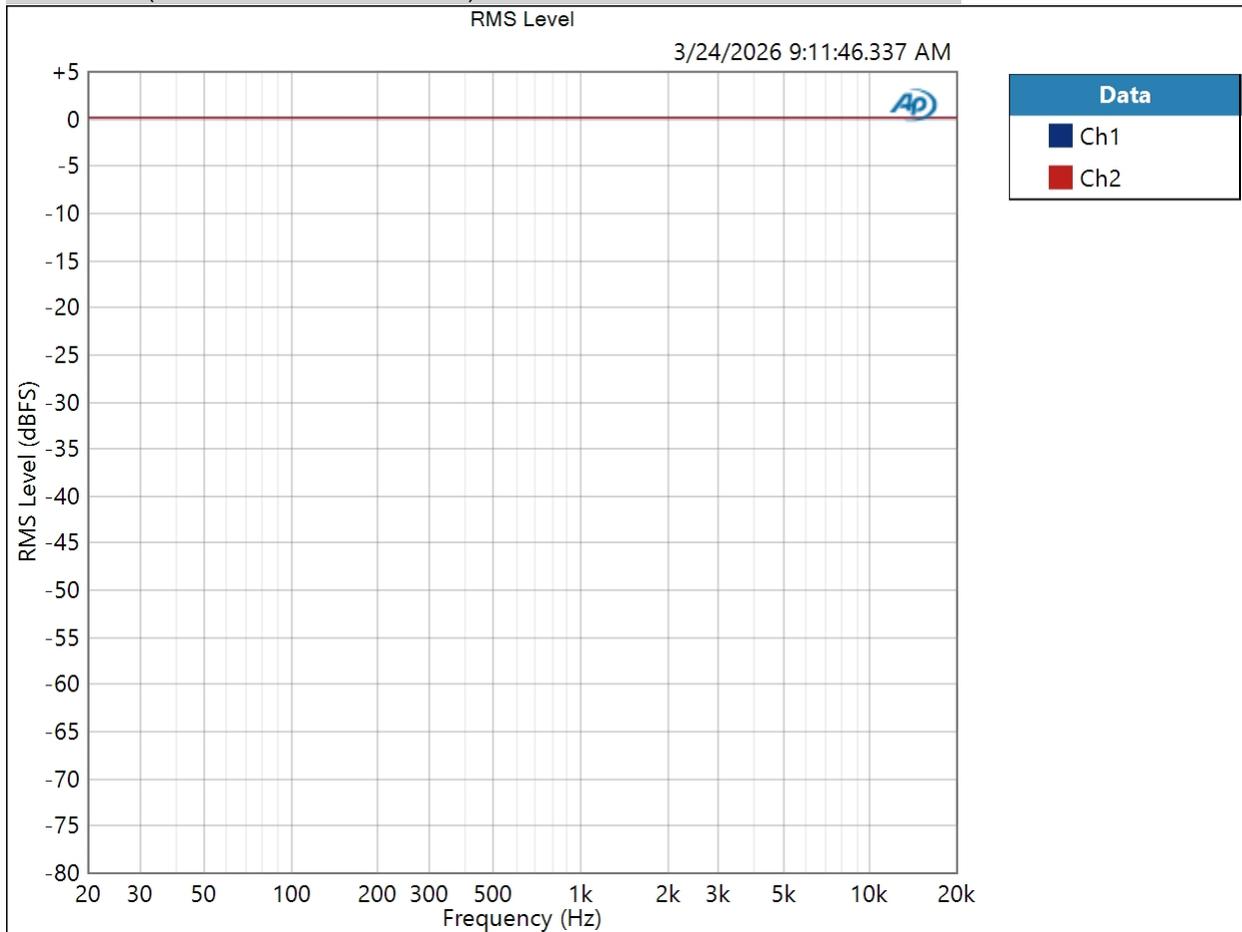


Result: PASSED

Optical USB Power : Frequency Response

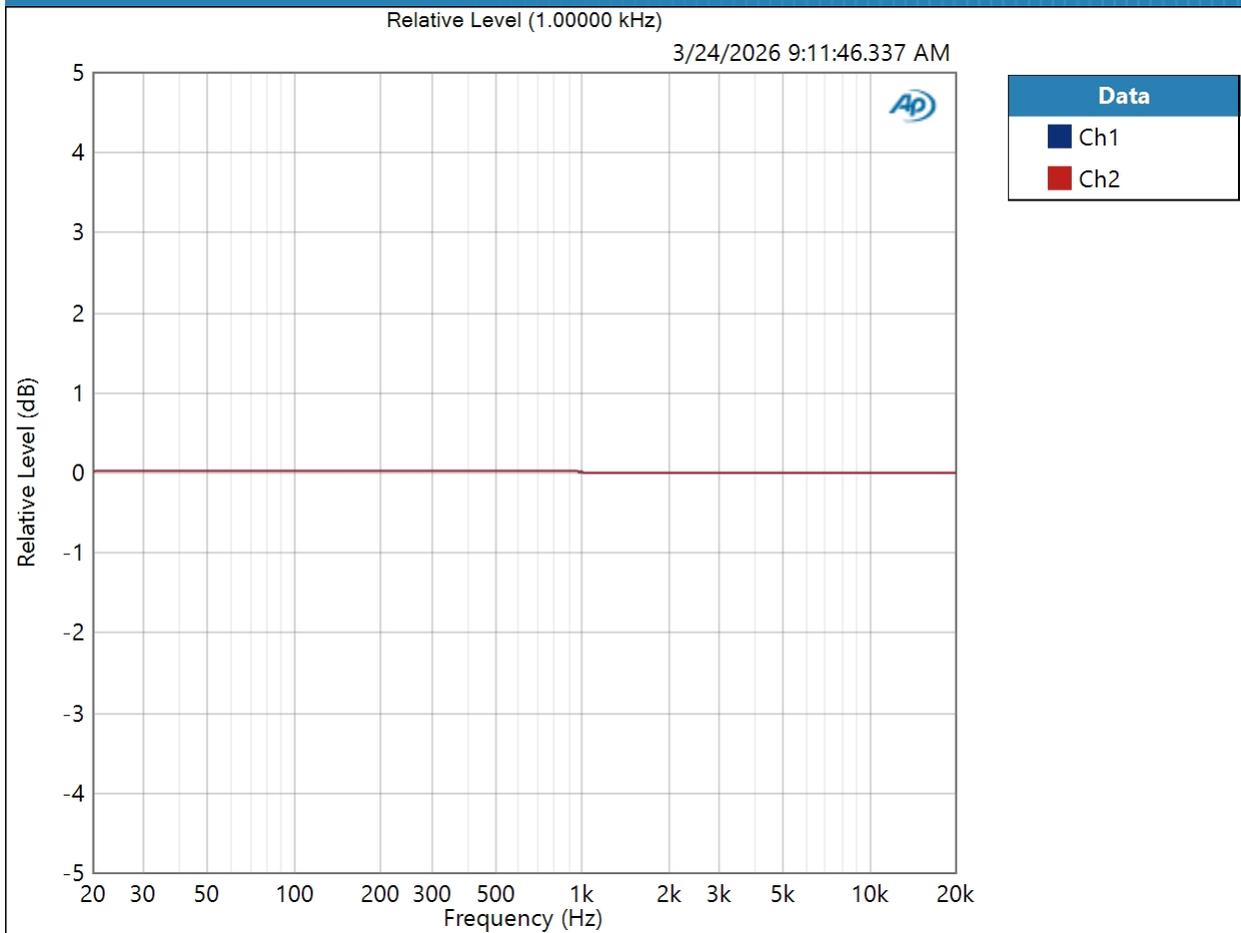
Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
EQ: None
Pre-Sweep: 500.0 ms
Sweep: 1.000 s
Extend Acquisition By: 3.000 s
Secondary Source: None
Measured 1 3/24/2026 9:11:46 AM

RMS Level (3/24/2026 9:11:46.337 AM)



Result: PASSED

Relative Level (1.00000 kHz) (3/24/2026 9:11:46.337 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (3/24/2026 9:11:46.337 AM)

Ch1 ± 0.001 dB

Ch2 ± 0.001 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Optical USB Power : Signal to Noise Ratio

Waveform: Sine
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
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 (3/24/2026 9:21:16.070 AM)

Ch1 ∞ dB

Ch2 ∞ dB

Optical USB Power : THD+N

Waveform: Sine
 Generator Level: -0.000 dBFS
 DC Offset: 0.000 D
 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 (3/24/2026 9:11:50.972 AM)

Ch1 0.000005 %
 Ch2 0.000005 %

THD Ratio (3/24/2026 9:11:50.972 AM)

Ch1 0.000001 %
 Ch2 0.000001 %

Noise Ratio (3/24/2026 9:11:50.972 AM)

Ch1 0.000005 %
 Ch2 0.000005 %

Distortion Product Ratio (3/24/2026 9:11:50.972 AM)

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	-180.55	-181.19	-173.76	-179.02	-180.06	-177.11	-178.65	-179.03	-183.70
Ch2	-0.00	-180.55	-181.19	-173.76	-179.02	-180.06	-177.11	-178.65	-179.03	-183.70

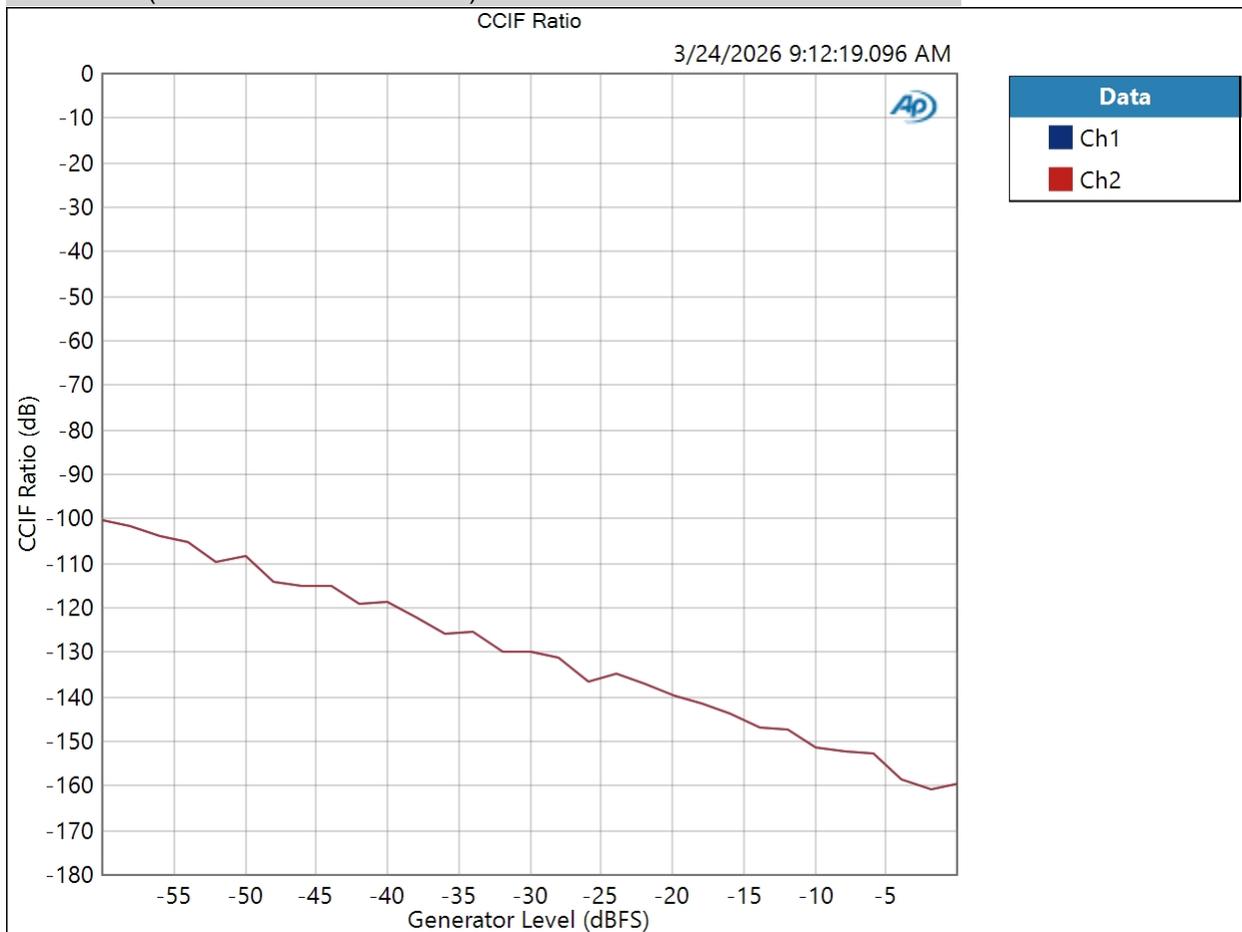
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

Optical USB Power : IMD Level Sweep (CCIF)

IMD Type: CCIF
Mean Frequency: 12.5000 kHz
Diff Frequency: 80.0000 Hz
IMD Split: False
Start Level: -60.000 dBFS
Stop Level: -0.000 dBFS
Step Type: Linear
Number of Points: 31
Step Size: +2.000 dBFS
Mode: d2+d3
Measured 1 3/24/2026 9:12:19 AM

CCIF Ratio (3/24/2026 9:12:19.096 AM)

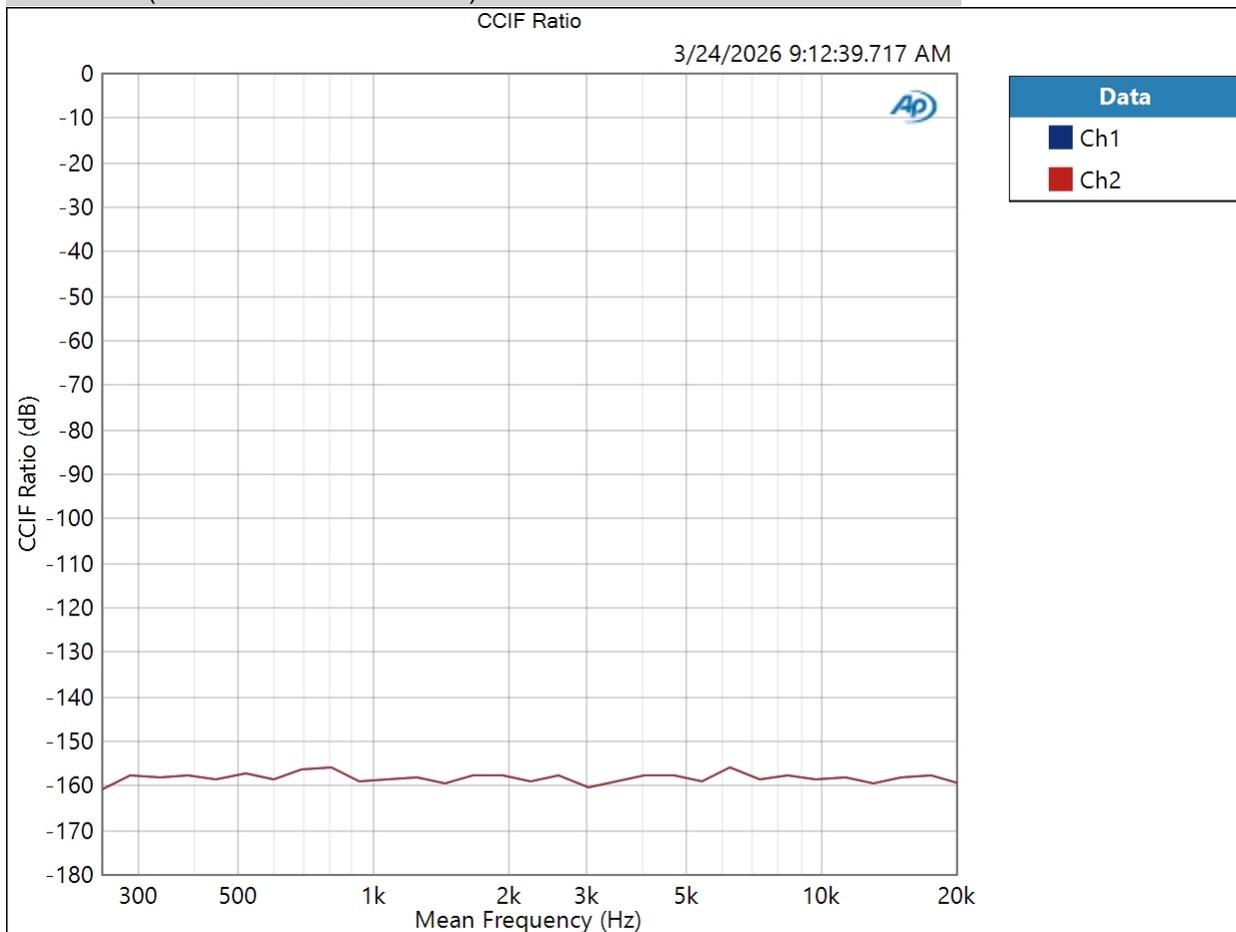


Result:  PASSED

Optical USB Power : IMD Frequency Sweep (CCIF)

Generator Level: -0.000 dBFS
DC Offset: 0.000 D
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 3/24/2026 9:12:39 AM

CCIF Ratio (3/24/2026 9:12:39.717 AM)



Result:  PASSED

Optical USB Power : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Frequency: 1.00000 kHz

Crosstalk (3/24/2026 9:13:01.279 AM)

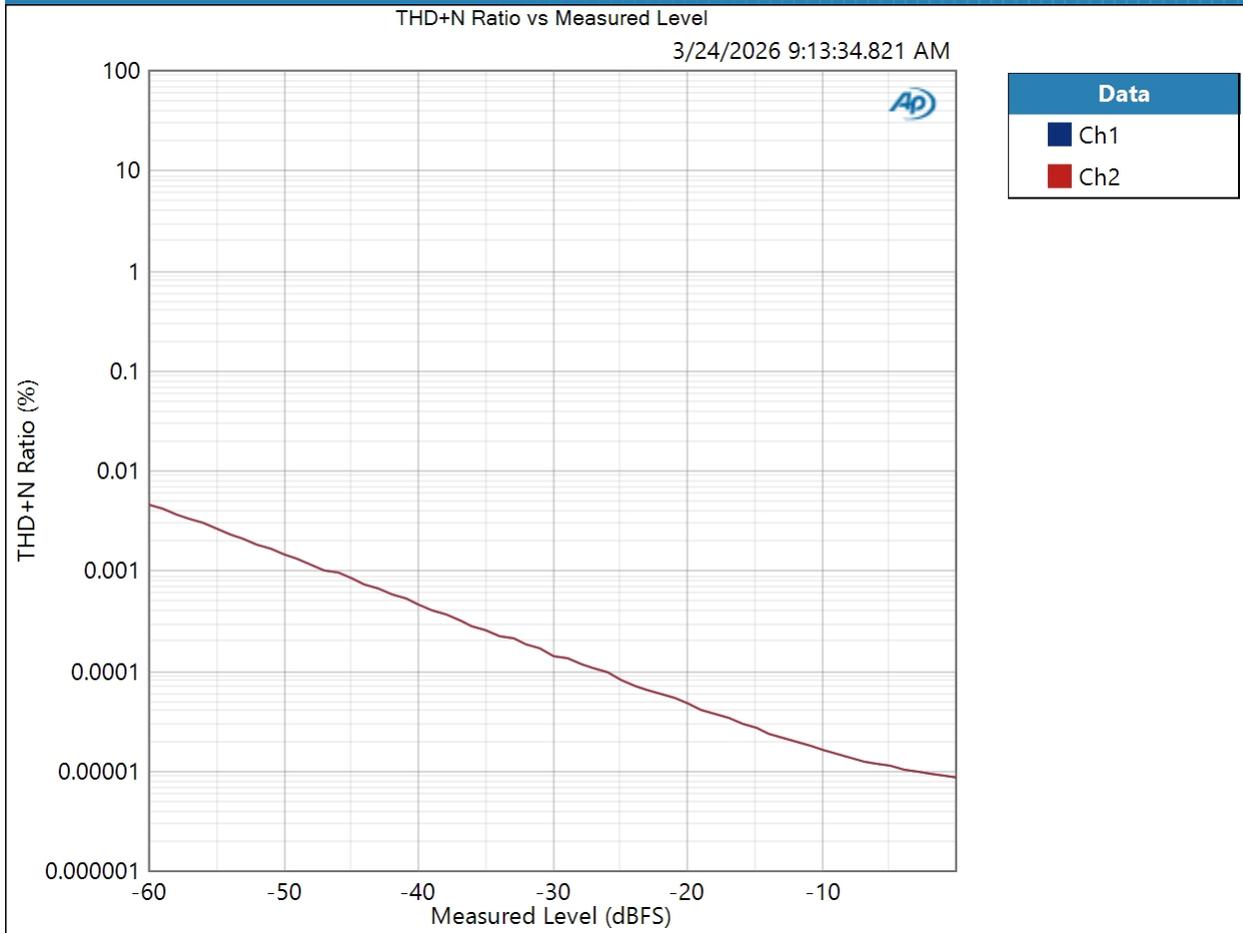
Ch1 -1172.645 dB

Ch2 -1074.329 dB

Optical USB Power : Stepped Level Sweep

Waveform: Sine
Frequency: 1.00000 kHz
Start Level: -60.000 dBFS
Stop Level: -0.000 dBFS
Step Type: Linear
Number of Points: 61
Step Size: +1.000 dBFS
Offset: 0.000 D
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 3/24/2026 9:13:34 AM

THD+N Ratio vs Measured Level (3/24/2026 9:13:34.821 AM)



Result: PASSED

AES Linear Power : Signal Path Setup

Output Connector:	ASIO
Asio Device:	ASIO4ALL v2
Scaling Mode:	Digital
Output Sample Rate:	44.1000 kHz
Output Latency:	Auto
Buffer Size:	1024
Clock Source:	Big Ben
Input 1:	Digital Balanced
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) - Fs/2
Input EQ:	None
110 ohm Termination:	Enabled
Input Bit Depth:	24
Scale Freq By:	Input SR
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
Digital Input	
dBrA:	0.000 dBFS
dBrB:	0.000 dBFS
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	-40.000 dBFS
dB SPL2:	-40.000 dBFS
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
• DCX	
DCX is not detected.	

AES Linear Power : Level and Gain

Waveform: Sine

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Frequency: 1.00000 kHz

Low-pass Filter: Signal Path

RMS Level (3/24/2026 9:18:19.330 AM)

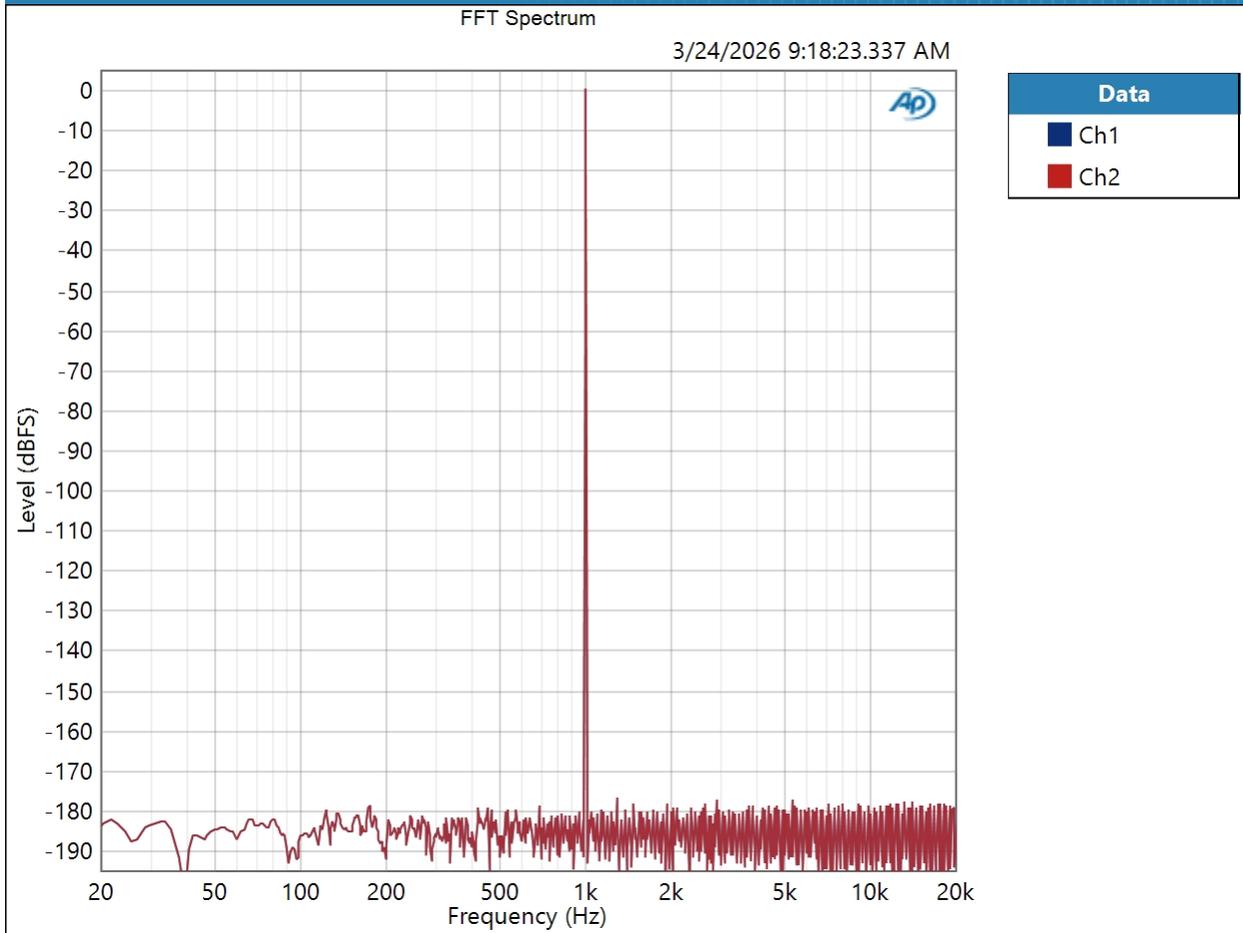
Ch1 -0.000 dBFS

Ch2 -0.000 dBFS

AES Linear Power : Signal Analyzer

Waveform: Sine
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 3/24/2026 9:18:23 AM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
FFT Length: 32768
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (3/24/2026 9:18:23.337 AM)

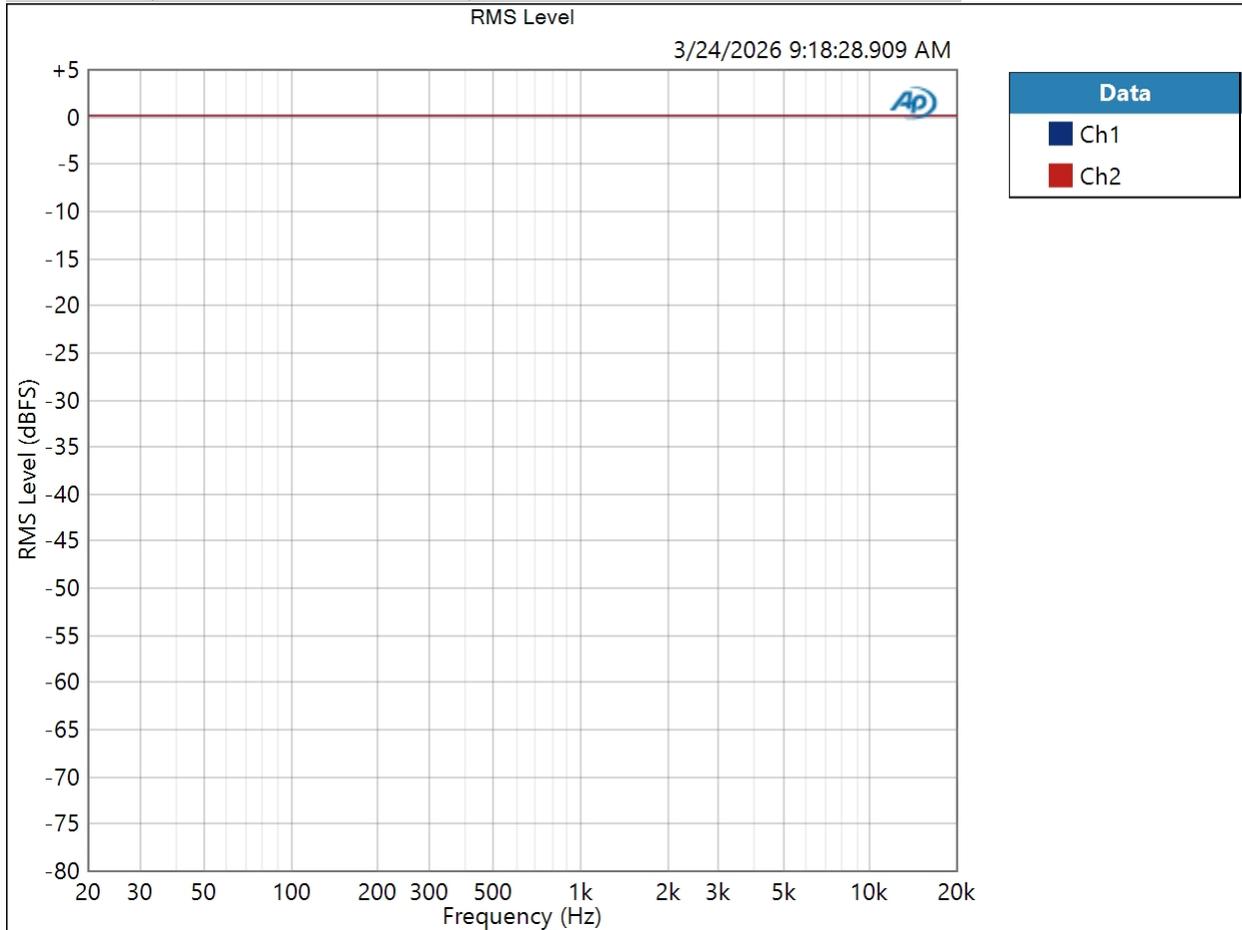


Result:  PASSED

AES Linear Power : Frequency Response

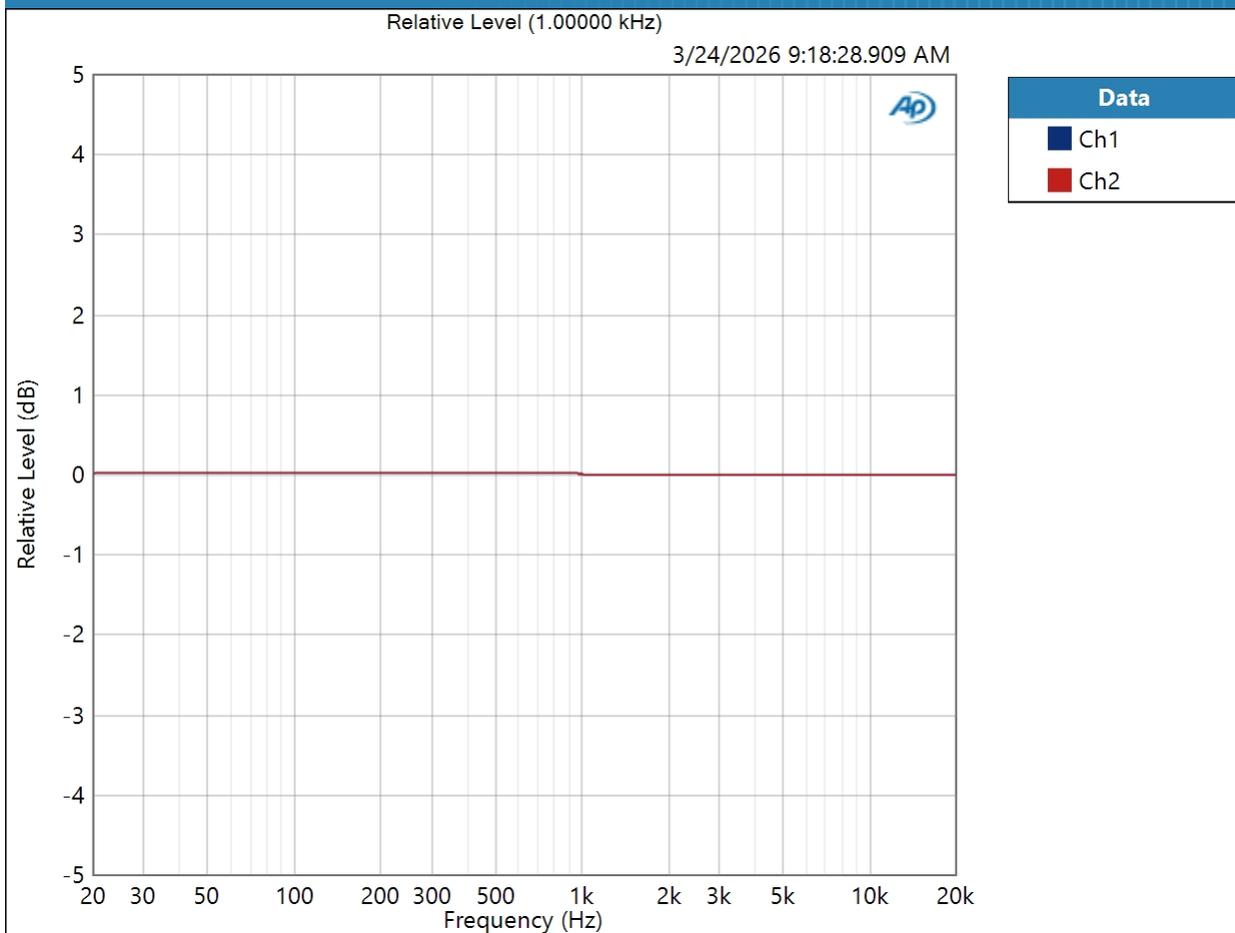
Start Frequency: 20.0000 Hz
 Stop Frequency: 20.0000 kHz
 Generator Level: -0.000 dBFS
 DC Offset: 0.000 D
 EQ: None
 Pre-Sweep: 500.0 ms
 Sweep: 1.000 s
 Extend Acquisition By: 3.000 s
 Secondary Source: None
 Measured 1 3/24/2026 9:18:28 AM

RMS Level (3/24/2026 9:18:28.909 AM)



Result: PASSED

Relative Level (1.00000 kHz) (3/24/2026 9:18:28.909 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (3/24/2026 9:18:28.909 AM)

Ch1 ± 0.001 dB

Ch2 ± 0.001 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

AES Linear Power : Signal to Noise Ratio

Waveform: Sine
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
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 (3/24/2026 9:20:44.620 AM)

Ch1 ∞ dB

Ch2 ∞ dB

AES Linear Power : THD+N

Waveform: Sine
 Generator Level: -0.000 dBFS
 DC Offset: 0.000 D
 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 (3/24/2026 9:18:33.488 AM)

Ch1 0.000005 %
 Ch2 0.000005 %

THD Ratio (3/24/2026 9:18:33.488 AM)

Ch1 0.000001 %
 Ch2 0.000001 %

Noise Ratio (3/24/2026 9:18:33.488 AM)

Ch1 0.000005 %
 Ch2 0.000005 %

Distortion Product Ratio (3/24/2026 9:18:33.488 AM)

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	-179.43	-176.62	-180.48	-178.85	-173.81	-175.98	-174.44	-172.67	-175.43
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-179.43	-176.62	-180.48	-178.85	-173.81	-175.98	-174.44	-172.67	-175.43

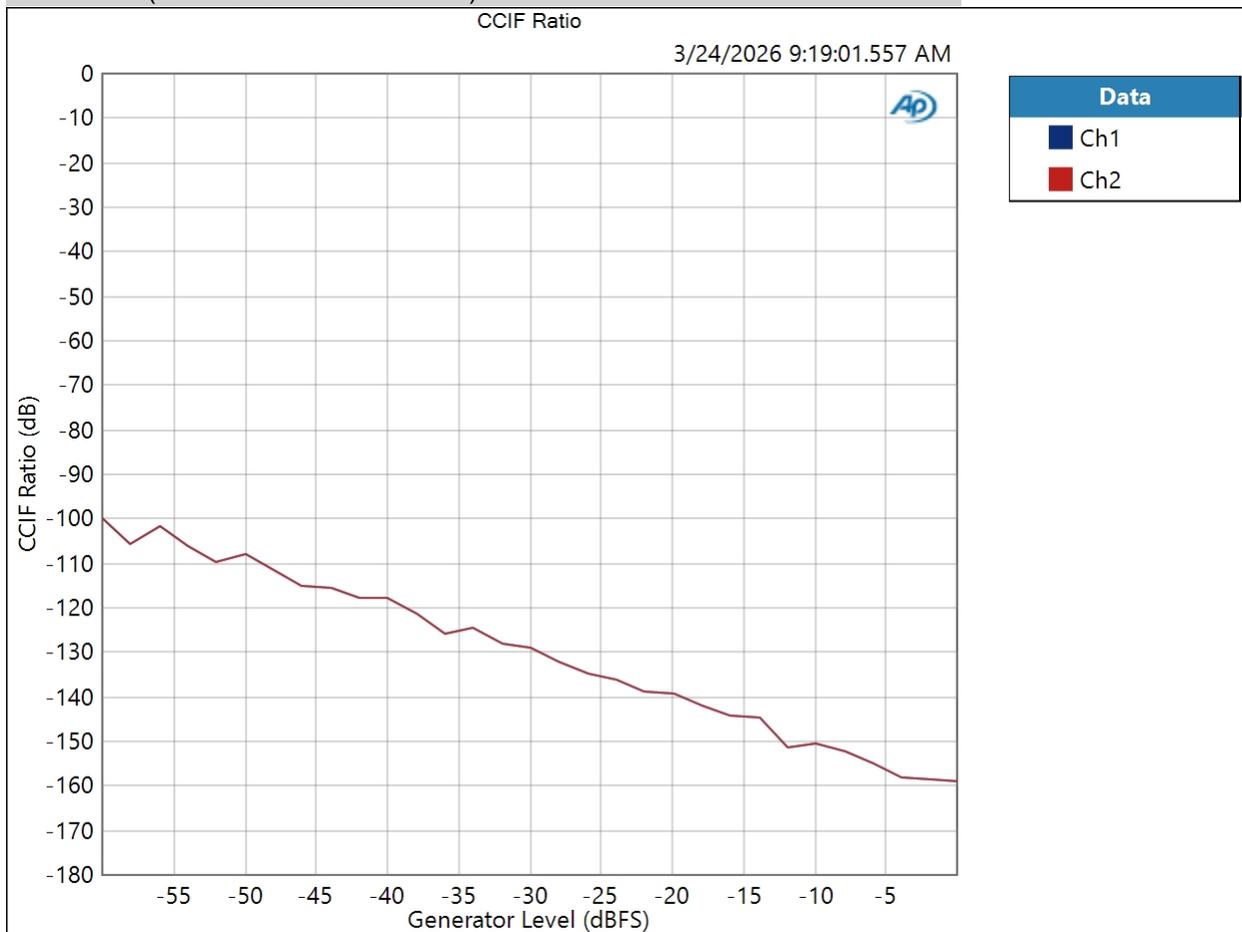
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

AES Linear Power : IMD Level Sweep (CCIF)

IMD Type: CCIF
 Mean Frequency: 12.5000 kHz
 Diff Frequency: 80.0000 Hz
 IMD Split: False
 Start Level: -60.000 dBFS
 Stop Level: -0.000 dBFS
 Step Type: Linear
 Number of Points: 31
 Step Size: +2.000 dBFS
 Mode: d2+d3
 Measured 1 3/24/2026 9:19:01 AM

CCIF Ratio (3/24/2026 9:19:01.557 AM)

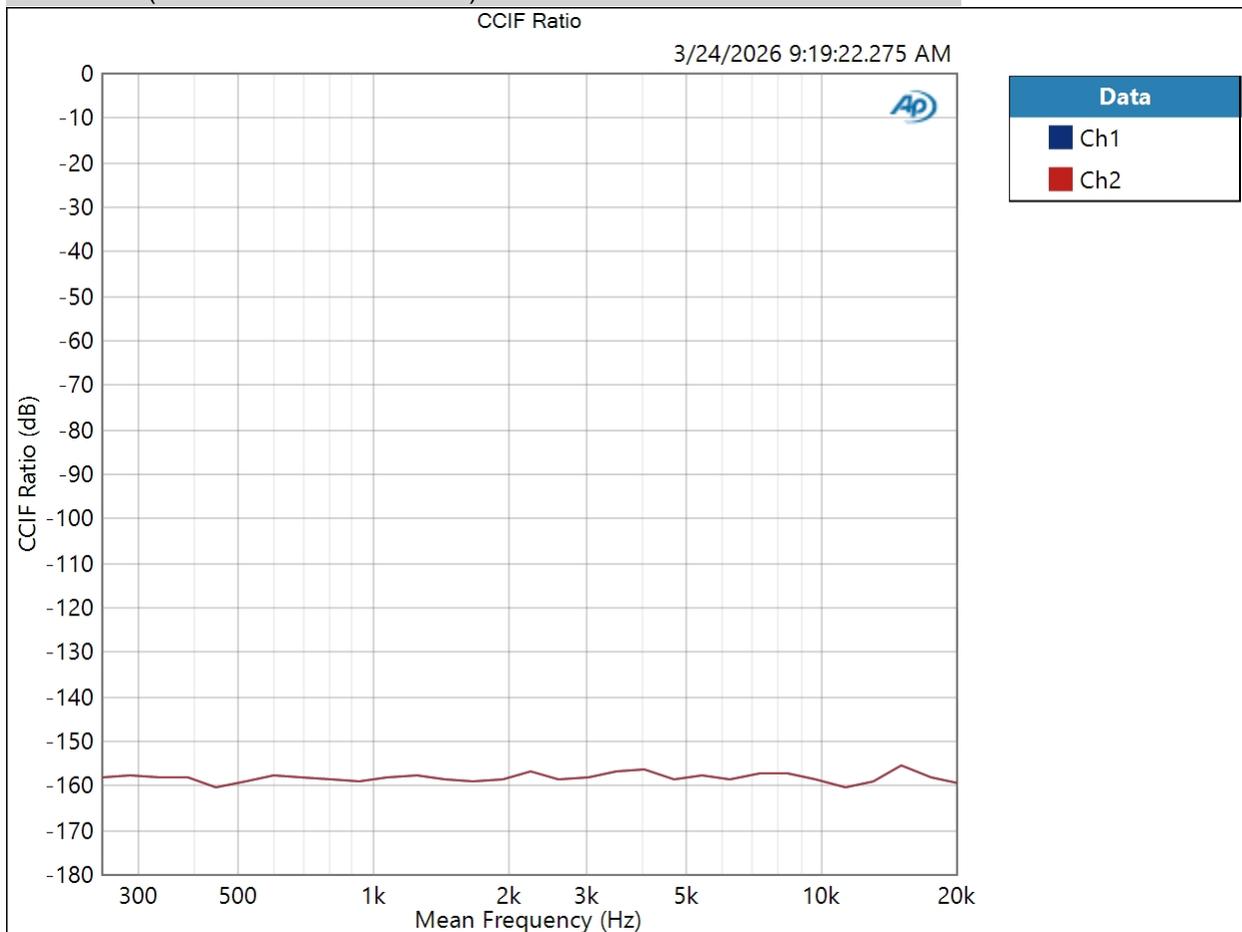


Result:  PASSED

AES Linear Power : IMD Frequency Sweep (CCIF)

Generator Level: -0.000 dBFS
DC Offset: 0.000 D
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 3/24/2026 9:19:22 AM

CCIF Ratio (3/24/2026 9:19:22.275 AM)



Result:  PASSED

AES Linear Power : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Frequency: 1.00000 kHz

Crosstalk (3/24/2026 9:19:43.886 AM)

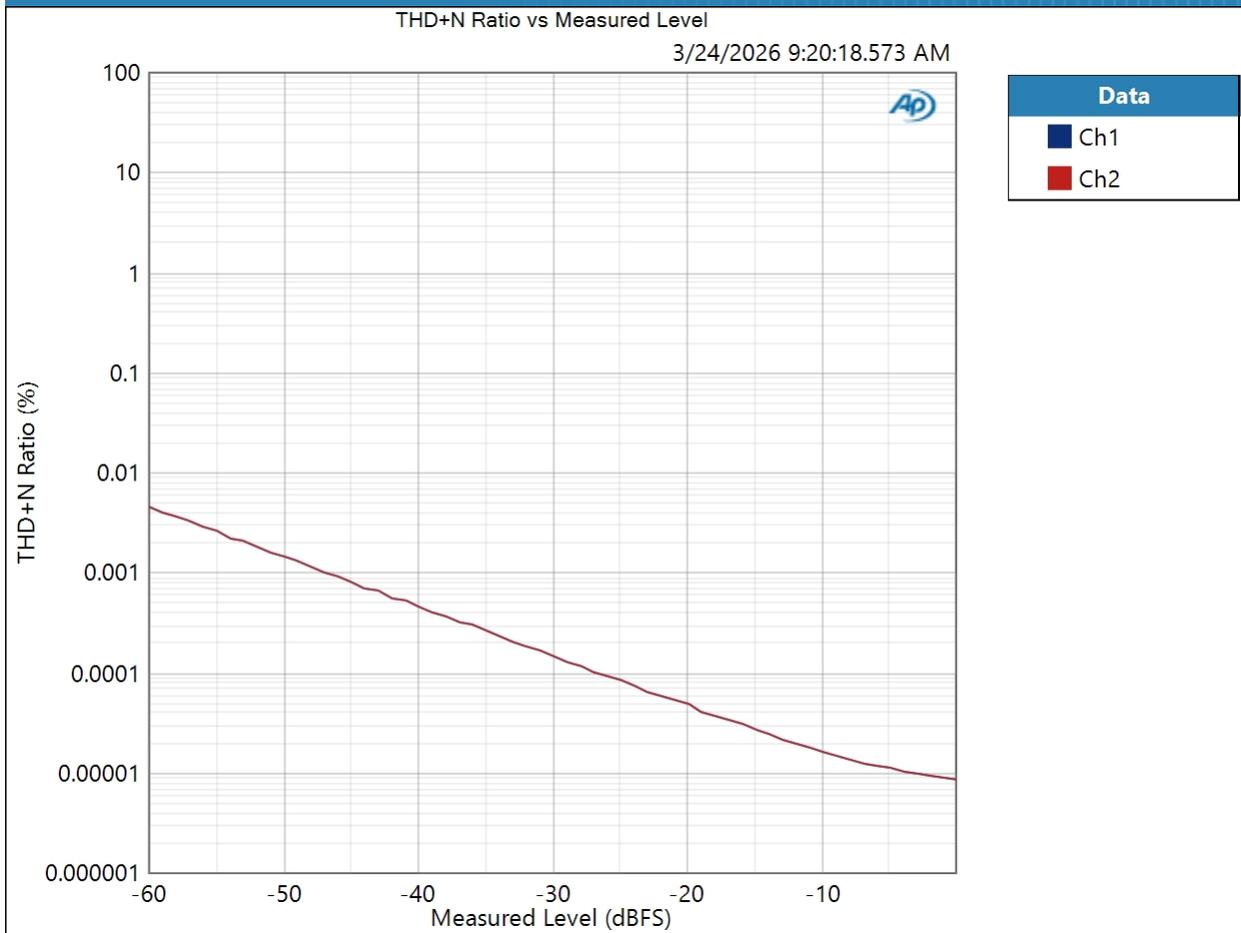
Ch1 -1211.651 dB

Ch2 -1073.778 dB

AES Linear Power : Stepped Level Sweep

Waveform: Sine
Frequency: 1.00000 kHz
Start Level: -60.000 dBFS
Stop Level: -0.000 dBFS
Step Type: Linear
Number of Points: 61
Step Size: +1.000 dBFS
Offset: 0.000 D
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 3/24/2026 9:20:18 AM

THD+N Ratio vs Measured Level (3/24/2026 9:20:18.573 AM)



Result: PASSED