

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@schiiit.com with a copy of your results so we can bring back your product and check it against our standard.

Summary

Balanced

Level and Gain	✓ PASSED
DC Level	✓ 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
Crosstalk Sweep, One Channel Driven	✓ PASSED
Bandpass Level Sweep	✓ PASSED

SE

Level and Gain	✓ PASSED
DC Level	✓ 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
Crosstalk Sweep, One Channel Driven	✓ PASSED
Bandpass Level Sweep	✓ PASSED

Optical

Jitter Level Sweep	✓ PASSED
Crosstalk, One Channel Undriven	✓ PASSED
Crosstalk Sweep, One Channel Driven	✓ PASSED

Sequence Result:

Sequence Result: ✓ PASSED

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

Balanced : Signal Path Setup

Output Connector:	ASIO
Asio Device:	ASIO4ALL v2
Scaling Mode:	Digital
Output Sample Rate:	44.1000 kHz
Output Latency:	Auto
Buffer Size:	512
Clock Source:	Big Ben
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:	-20.000 dBFS
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.	
• 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 : 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 (6/16/2022 11:16:21.971 AM)

Ch1 3.985 Vrms
 Ch2 3.997 Vrms

Balanced : DC Level

Waveform: Sine
 Generator Level: $-\infty$ dBFS
 DC Offset: 0.000 D
 Frequency: 1.00000 kHz
 Delay Time: 100.0 ms
 Acquisition Time: 333.0 ms

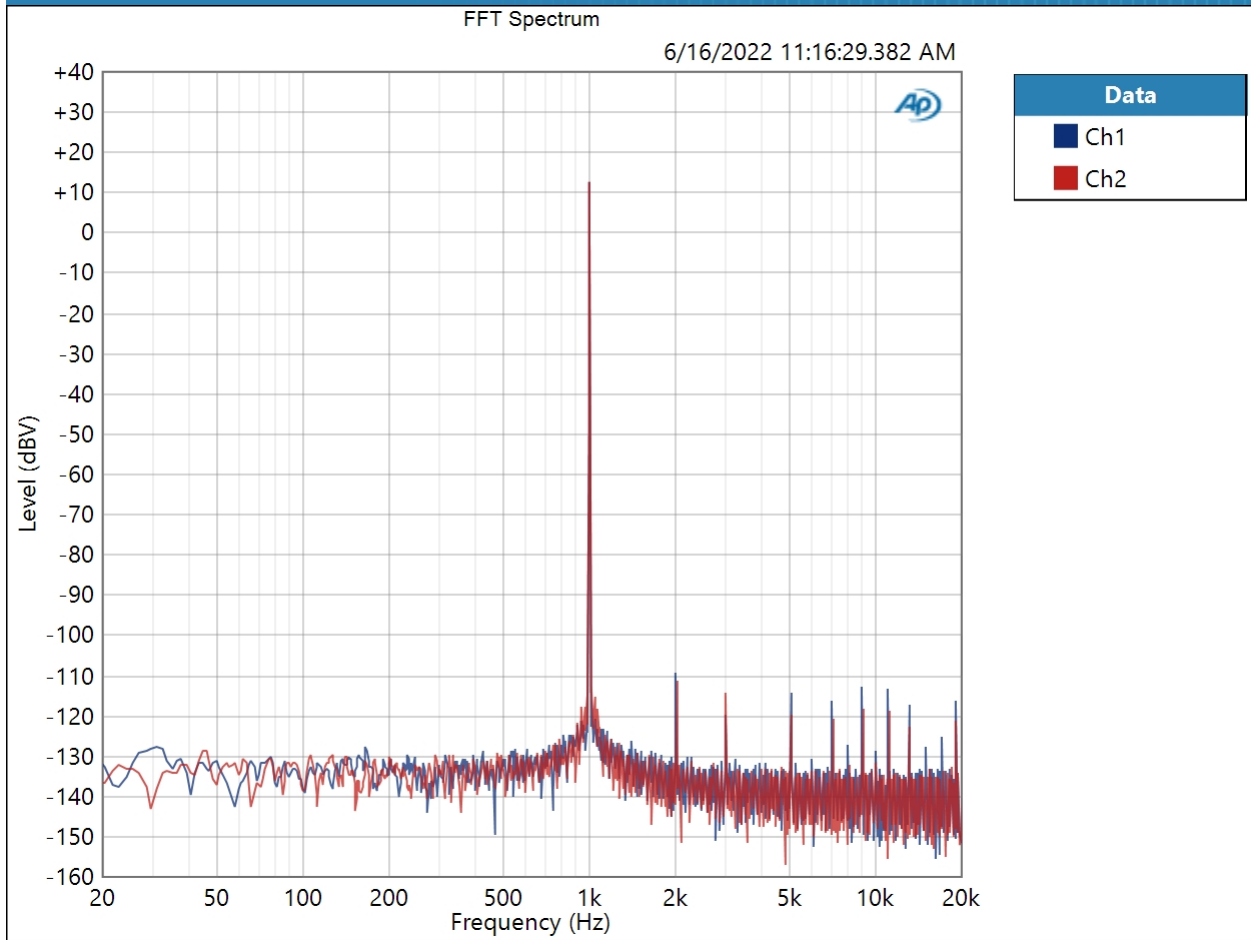
DC Level (6/16/2022 11:16:23.137 AM)

Ch1 -121.3 uV
 Ch2 373.4 uV

Balanced : Signal Analyzer

Waveform: Sine
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 6/16/2022 11:16:29 AM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 1.000 s
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 (6/16/2022 11:16:29.382 AM)

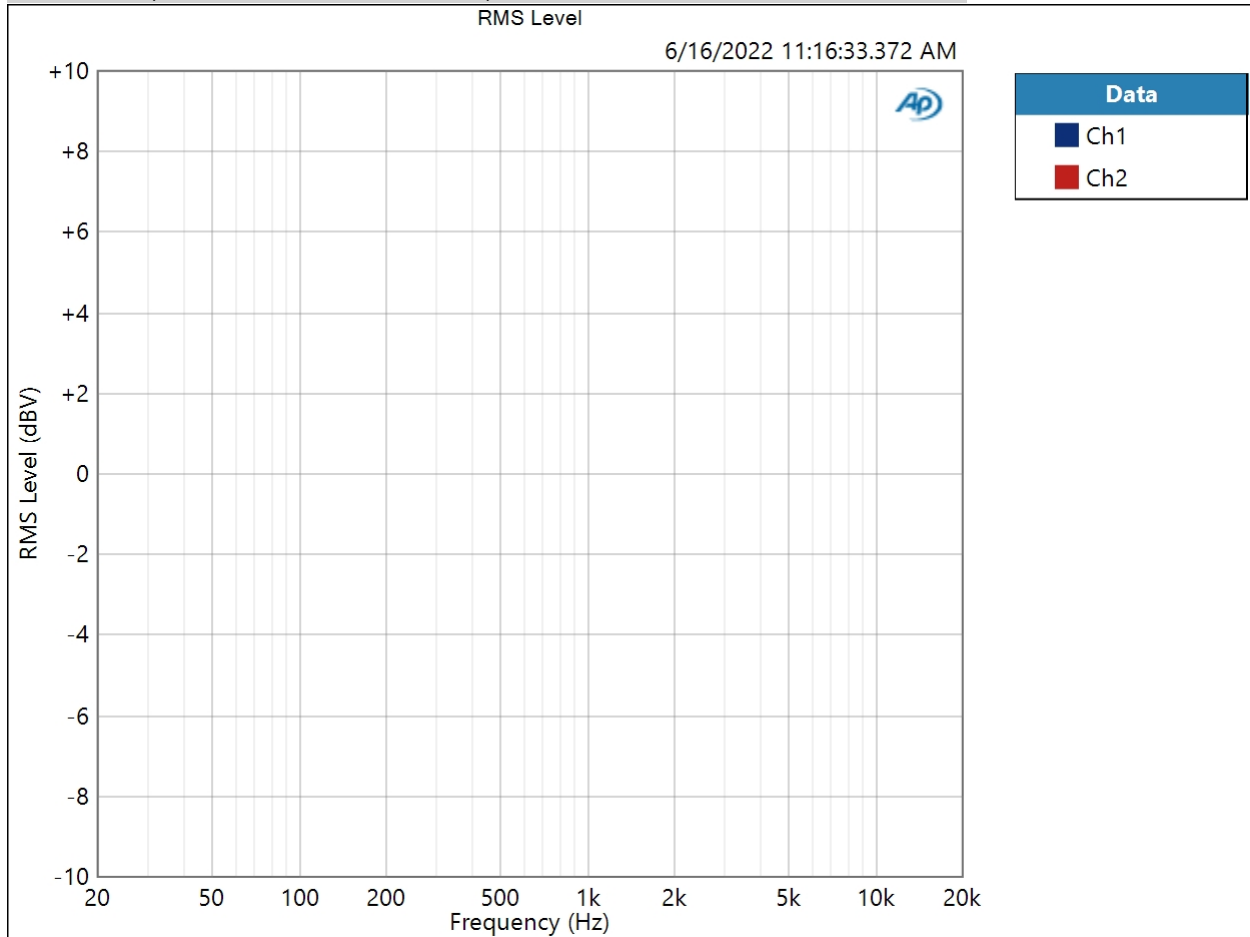


Result: PASSED

Balanced : 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: 100.0 ms
 Sweep: 350.0 ms
 Extend Acquisition By: 1.000 s
 Secondary Source: None
 Measured 1 6/16/2022 11:16:33 AM

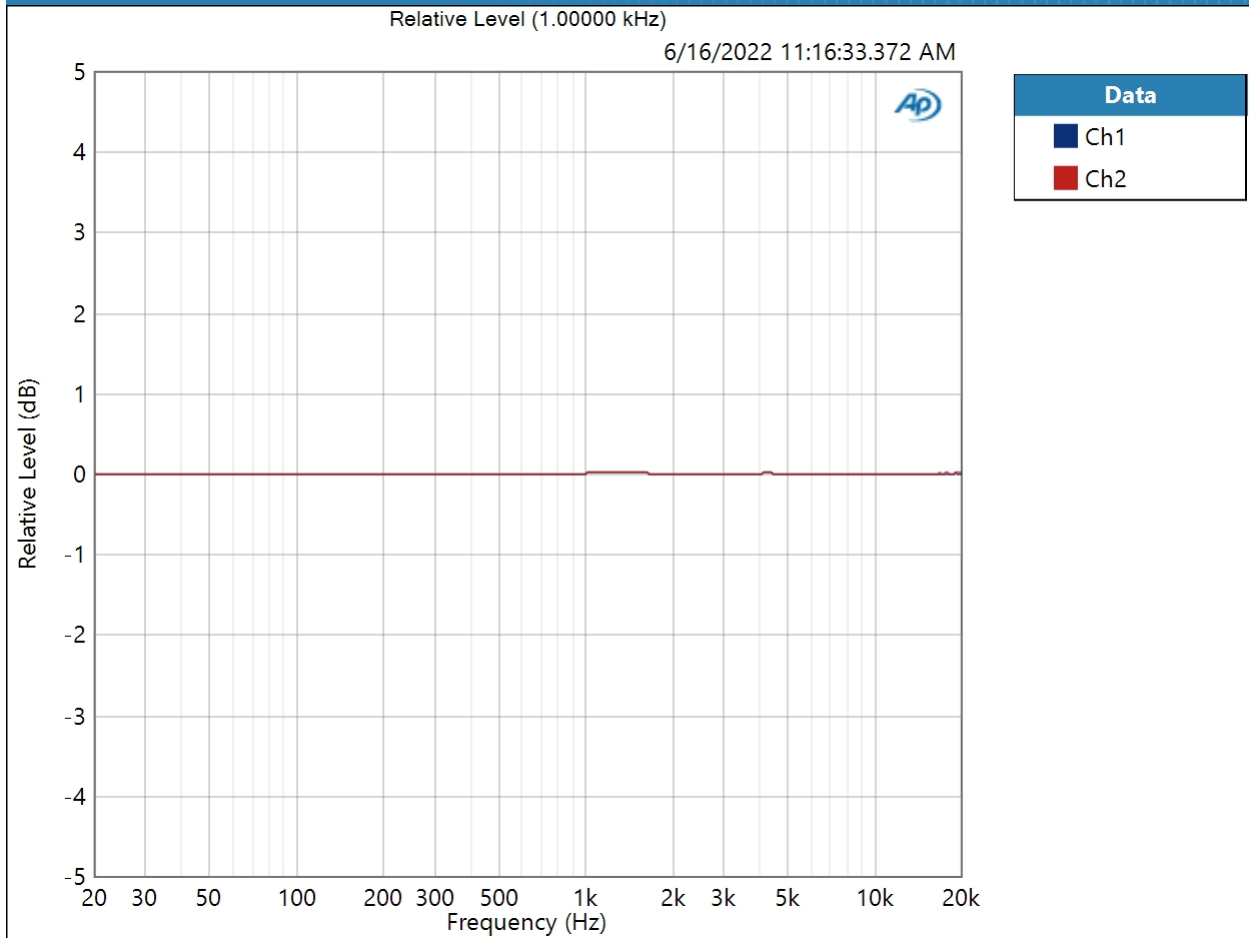
RMS Level (6/16/2022 11:16:33.372 AM)



Result: PASSED

Relative Level (1.00000 kHz) (6/16/2022 11:16:33.372 AM)

6/16/2022 11:30 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) (6/16/2022 11:16:33.372 AM)

Ch1 ± 0.009 dB

Ch2 ± 0.008 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Balanced : 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: Signal Path

Signal to Noise Ratio (6/16/2022 11:16:35.392 AM)

Ch1 119.610 dB
Ch2 119.684 dB

Balanced : 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 (6/16/2022 11:16:37.947 AM)

Ch1 0.000278 %
 Ch2 0.000244 %

THD Ratio (6/16/2022 11:16:37.947 AM)

Ch1 0.000158 %
 Ch2 0.000111 %

Noise Ratio (6/16/2022 11:16:37.947 AM)

Ch1 0.000236 %
 Ch2 0.000213 %

Distortion Product Ratio (6/16/2022 11:16:37.947 AM)

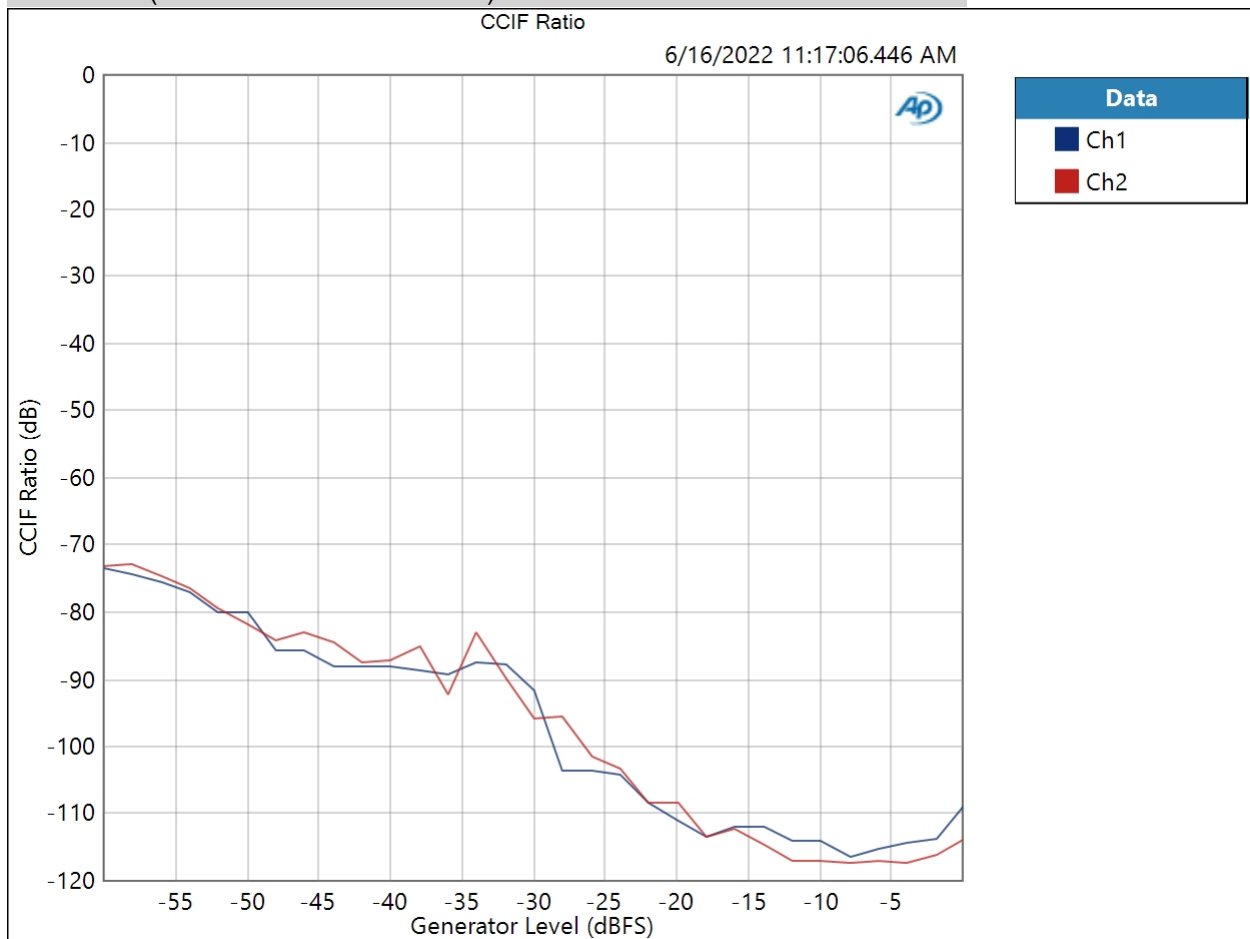
Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch1	-0.00	-120.63	-130.13	-143.61	-125.94	-138.12	-126.54	-140.46	-124.36	-137.52
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-122.99	-125.96	-140.63	-134.23	-142.14	-133.69	-138.34	-130.60	-141.38

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

Balanced : 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 6/16/2022 11:17:06 AM

CCIF Ratio (6/16/2022 11:17:06.446 AM)

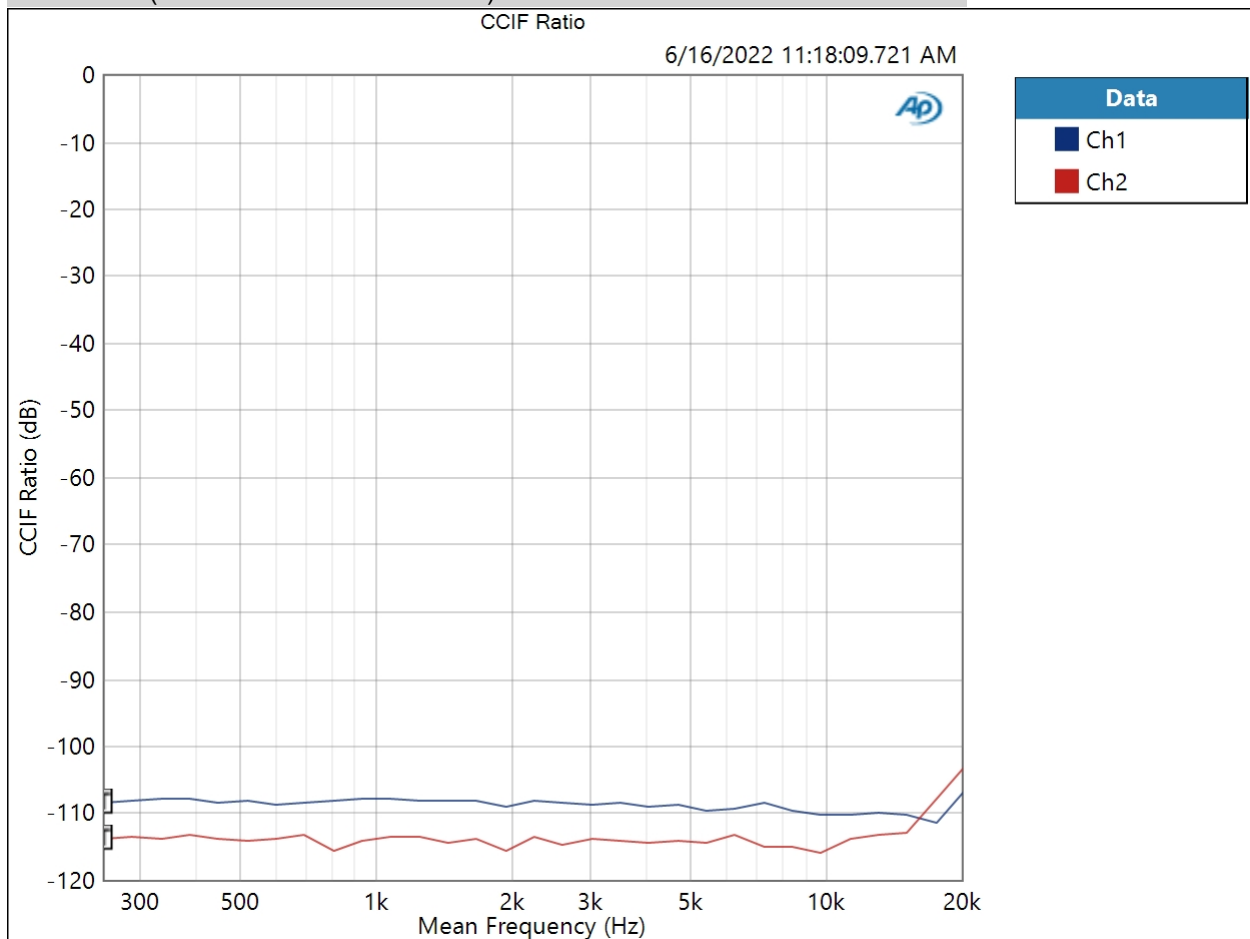


Result:  PASSED

Balanced : 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 6/16/2022 11:18:09 AM

CCIF Ratio (6/16/2022 11:18:09.721 AM)



Result:  PASSED

Balanced : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Frequency: 10.0000 kHz

Crosstalk (6/16/2022 11:18:14.843 AM)

Ch1 -133.539 dB

Ch2 -138.223 dB

Balanced : Crosstalk Sweep, One Channel Driven

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Start Frequency: 20.0000 kHz

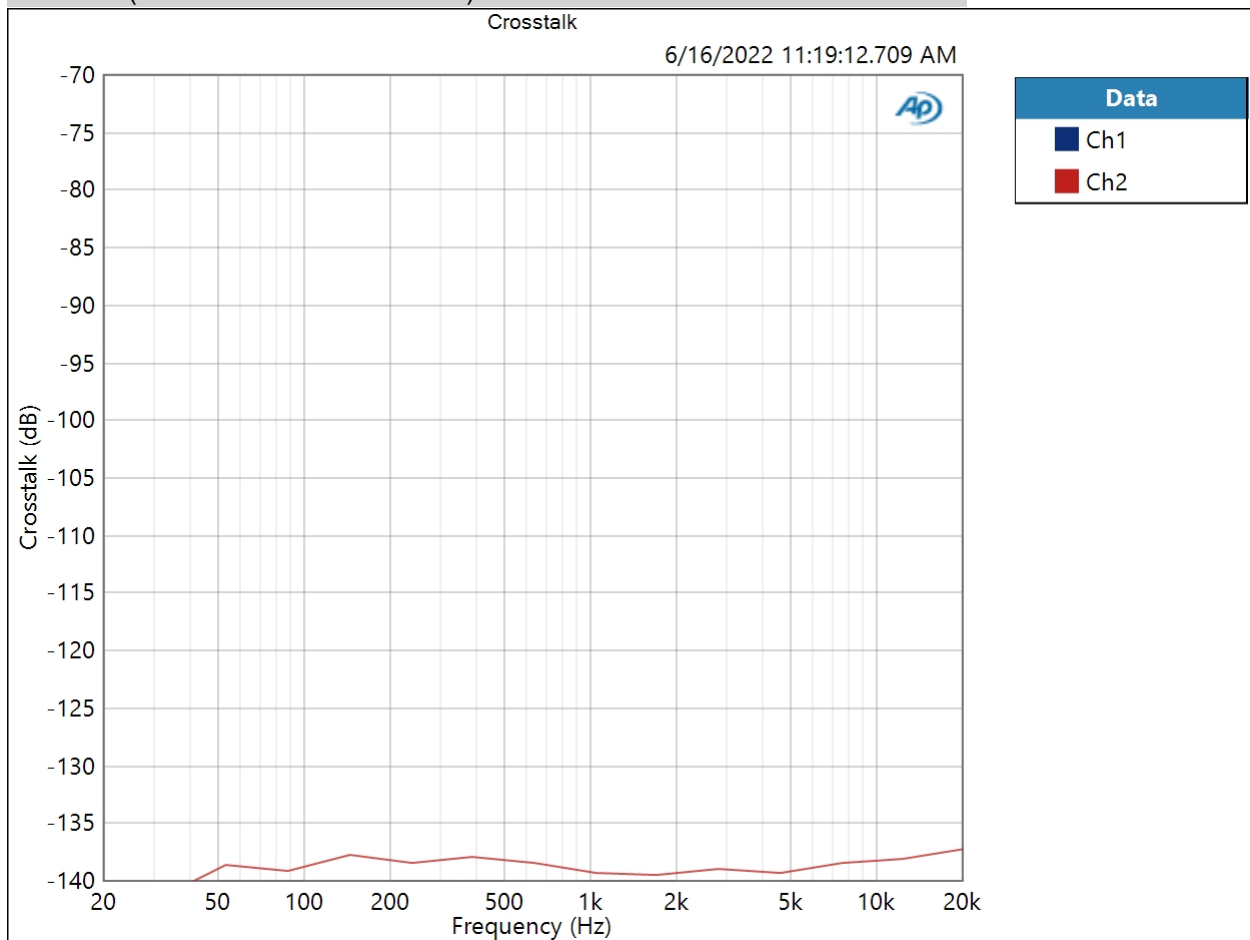
Stop Frequency: 20.0000 Hz

Step Type: Logarithmic

Number of Points: 15

Measured 1 6/16/2022 11:19:12 AM

Crosstalk (6/16/2022 11:19:12.709 AM)



Crosstalk Parameters

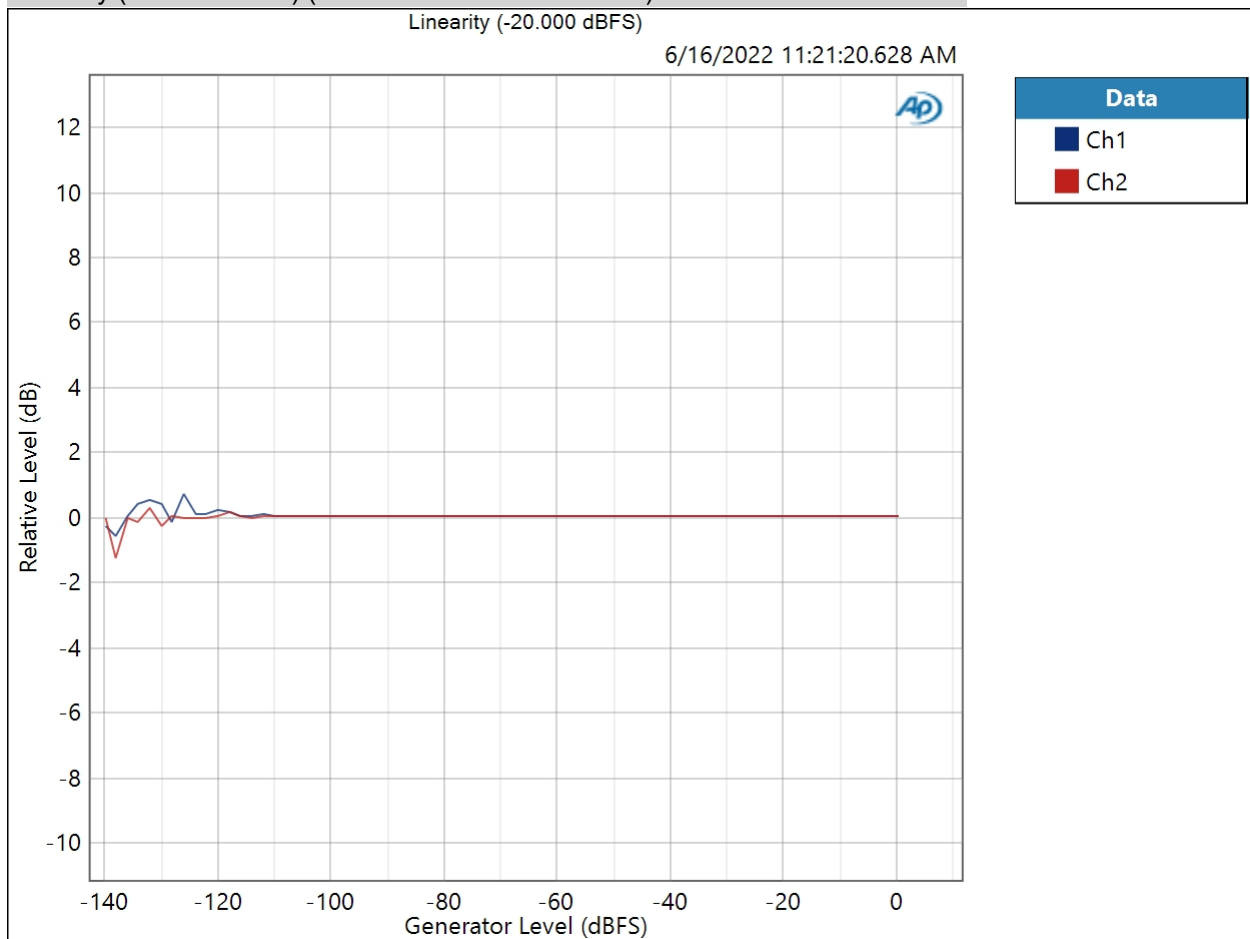
Source: Ch1

Result: PASSED

Balanced : Bandpass Level Sweep

Waveform: Sine
Frequency: 1.00000 kHz
Start Level: -140.000 dBFS
Stop Level: -0.000 dBFS
Step Type: Linear
Number of Points: 71
Step Size: +2.000 dBFS
Offset: 0.000 D
Selectivity: Window width
Bandpass Tuning Mode: Generator Frequency
Measured 1 6/16/2022 11:21:20 AM

Linearity (-20.000 dBFS) (6/16/2022 11:21:20.628 AM)



Linearity (-20.000 dBFS) Parameters

Schiit DAC APx555 Standard Test Suite: Modius E



Mode: Normalized at Reference

Relative Level: -20.000 dBFS

Result:  PASSED

SE : Signal Path Setup

Output Connector:	ASIO
Asio Device:	ASIO4ALL v2
Scaling Mode:	Digital
Output Sample Rate:	44.1000 kHz
Output Latency:	Auto
Buffer Size:	512
Clock Source:	Big Ben
Input 1:	Analog Unbalanced
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Input EQ:	None
Channels:	2
Termination:	100 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	-20.000 dBFS
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.	
• 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

SE : 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 (6/16/2022 11:22:07.975 AM)

Ch1 1.995 Vrms
 Ch2 2.001 Vrms

SE : DC Level

Waveform: Sine
 Generator Level: $-\infty$ dBFS
 DC Offset: 0.000 D
 Frequency: 1.00000 kHz
 Delay Time: 100.0 ms
 Acquisition Time: 333.0 ms

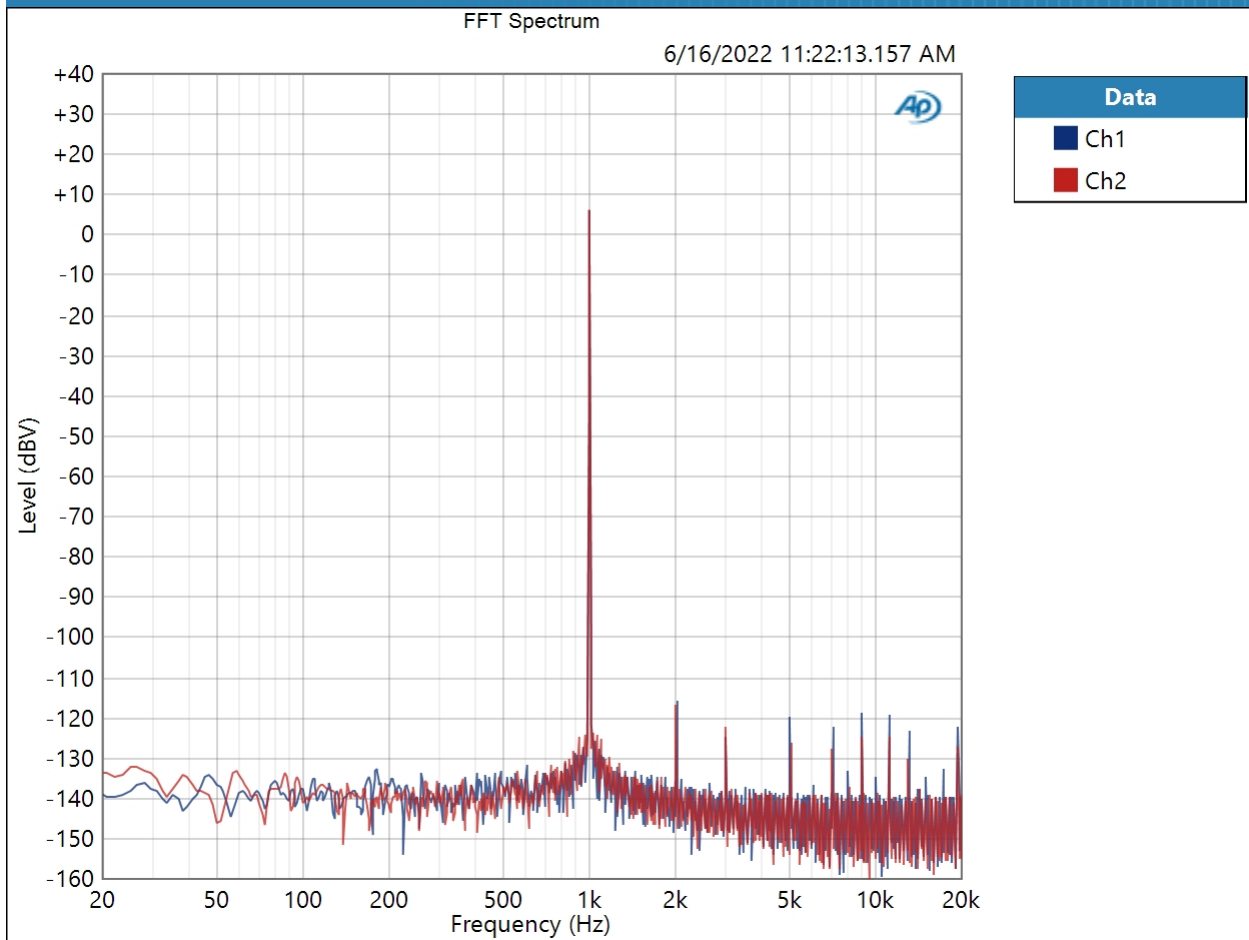
DC Level (6/16/2022 11:22:09.272 AM)

Ch1 -534.5 uV
 Ch2 726.6 uV

SE : Signal Analyzer

Waveform: Sine
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1: 6/16/2022 11:22:13 AM
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 (6/16/2022 11:22:13.157 AM)

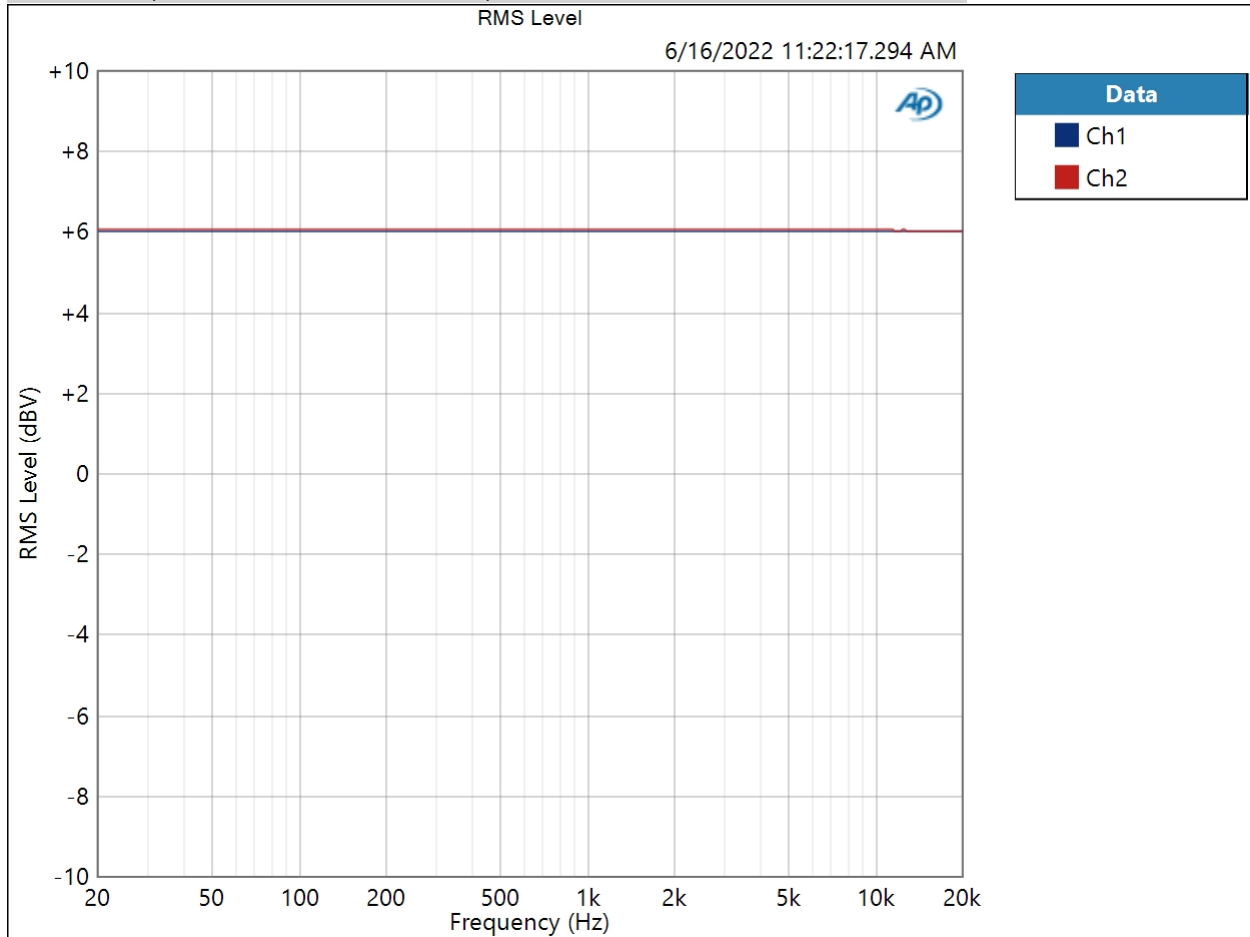


Result: PASSED

SE : Frequency Response

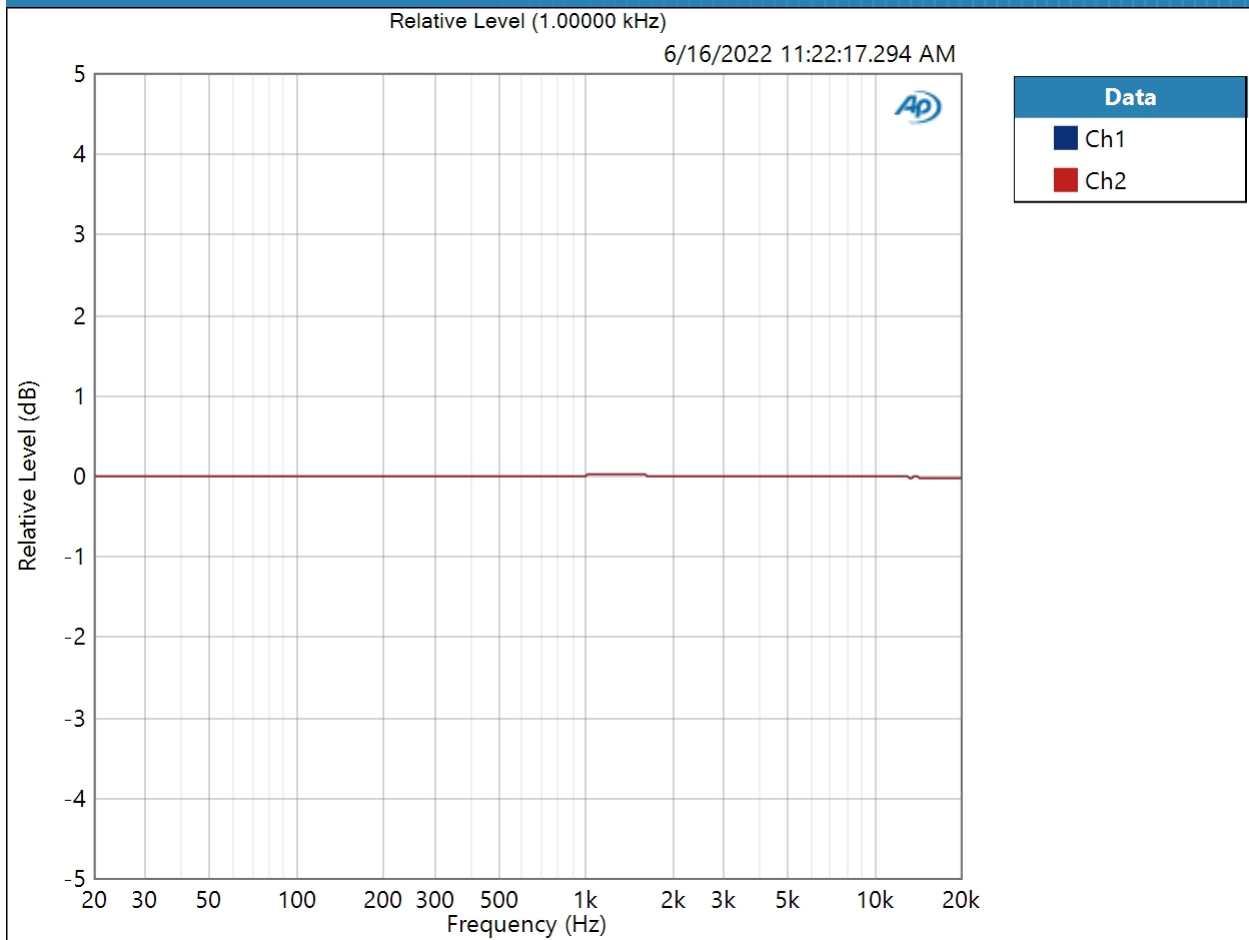
Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
EQ: None
Pre-Sweep: 100.0 ms
Sweep: 350.0 ms
Extend Acquisition By: 1.000 s
Secondary Source: None
Measured 1 6/16/2022 11:22:17 AM

RMS Level (6/16/2022 11:22:17.294 AM)



Result: PASSED

Relative Level (1.00000 kHz) (6/16/2022 11:22:17.294 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) (6/16/2022 11:22:17.294 AM)

Ch1 ± 0.031 dB

Ch2 ± 0.031 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

SE : 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: Signal Path

Signal to Noise Ratio (6/16/2022 11:22:19.380 AM)

Ch1 118.996 dB
Ch2 119.086 dB

SE : 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 (6/16/2022 11:22:21.696 AM)

Ch1 0.000276 %
 Ch2 0.000243 %

THD Ratio (6/16/2022 11:22:21.696 AM)

Ch1 0.000150 %
 Ch2 0.000111 %

Noise Ratio (6/16/2022 11:22:21.696 AM)

Ch1 0.000235 %
 Ch2 0.000217 %

Distortion Product Ratio (6/16/2022 11:22:21.696 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	-121.12	-130.94	-136.96	-126.09	-142.23	-127.63	-138.34	-124.62	-141.10
Ch2	-0.00	-122.25	-127.41	-141.28	-134.18	-138.94	-131.74	-139.53	-129.50	-142.87

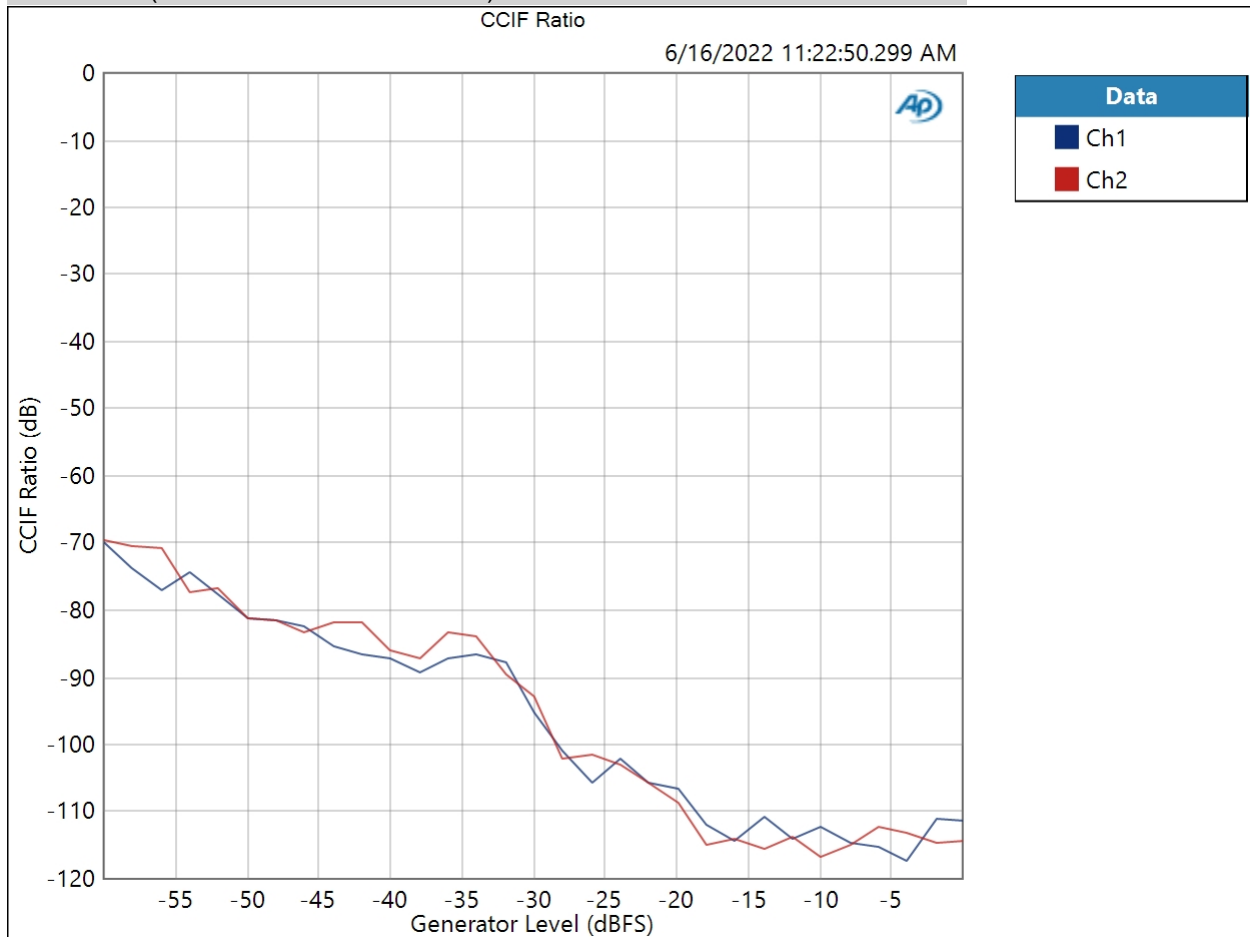
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

SE : 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 6/16/2022 11:22:50 AM

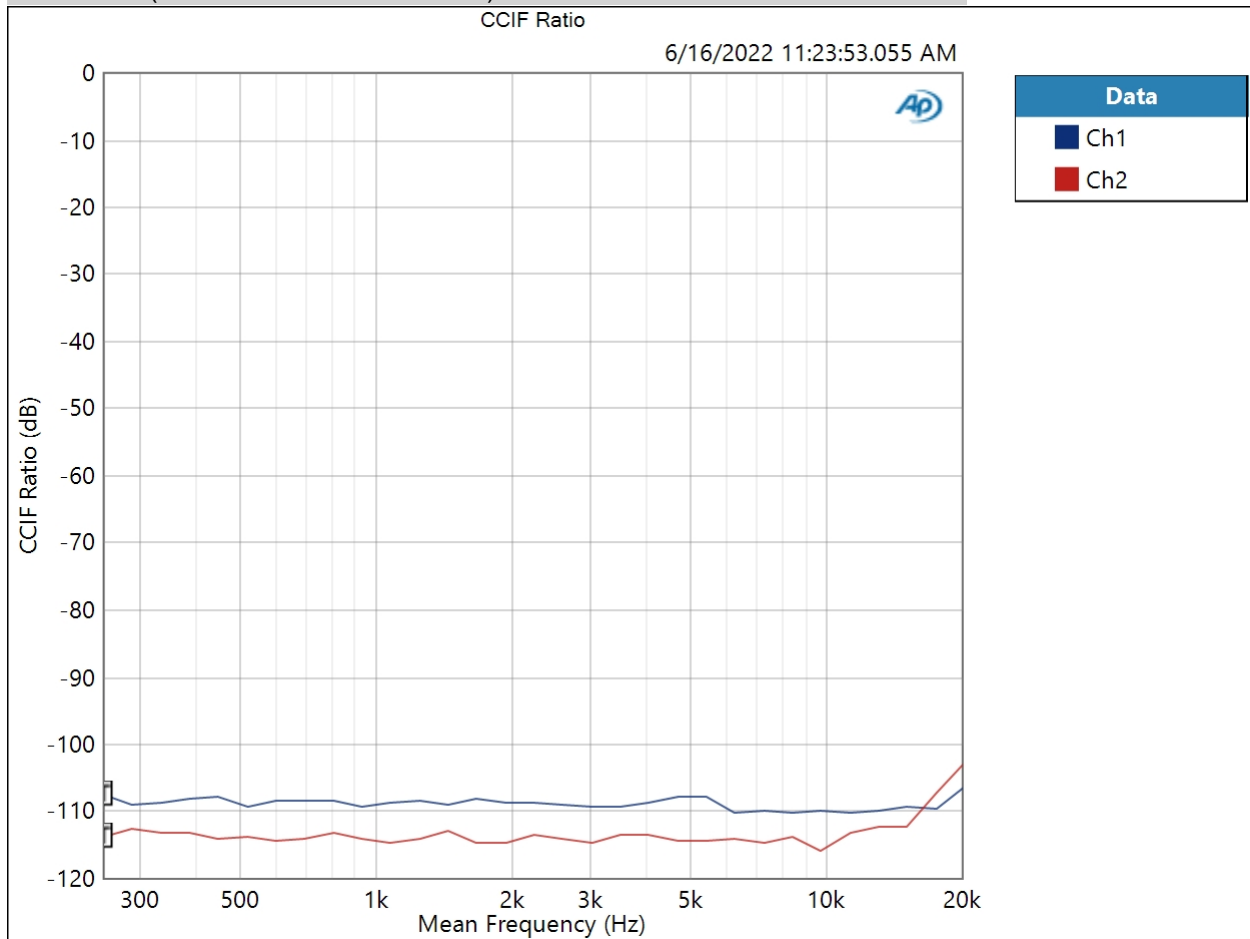
CCIF Ratio (6/16/2022 11:22:50.299 AM)



Result:  PASSED

SE : 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 6/16/2022 11:23:53 AM

CCIF Ratio (6/16/2022 11:23:53.055 AM)



Result:  PASSED

SE : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Frequency: 10.0000 kHz

Crosstalk (6/16/2022 11:23:58.131 AM)

Ch1 -131.801 dB

Ch2 -129.108 dB

SE : Crosstalk Sweep, One Channel Driven

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Start Frequency: 20.0000 kHz

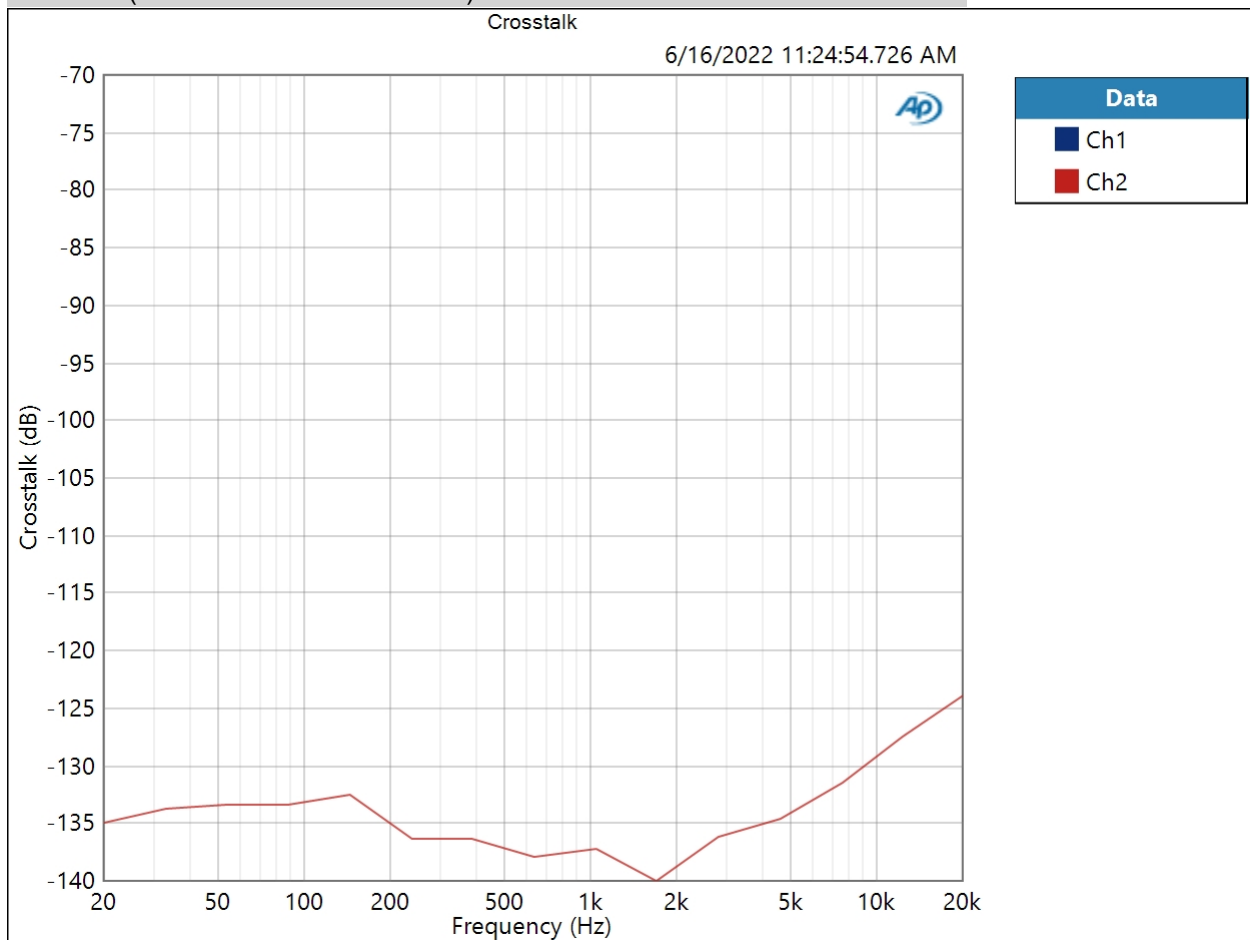
Stop Frequency: 20.0000 Hz

Step Type: Logarithmic

Number of Points: 15

Measured 1 6/16/2022 11:24:54 AM

Crosstalk (6/16/2022 11:24:54.726 AM)



Crosstalk Parameters

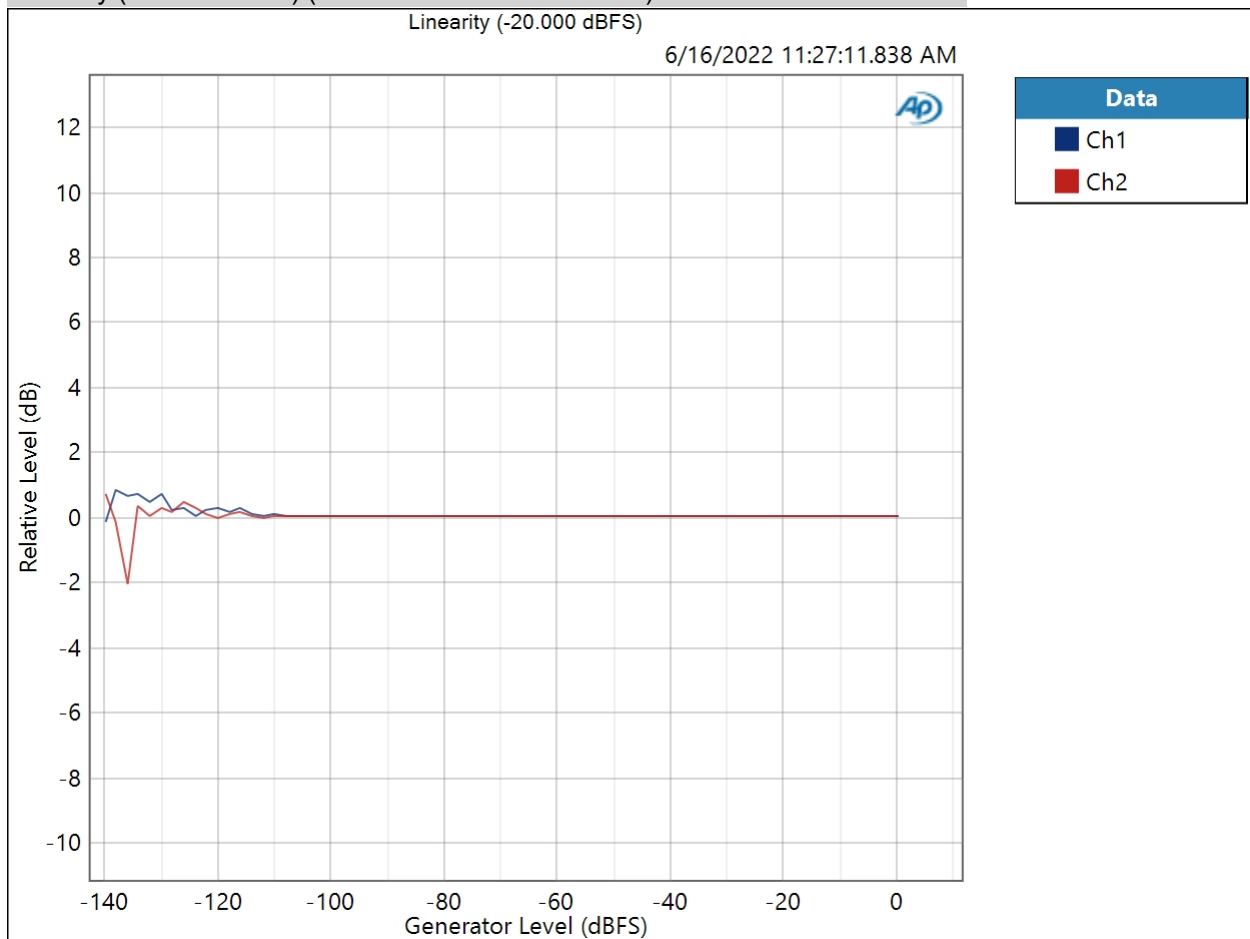
Source: Ch1

Result: PASSED

SE : Bandpass Level Sweep

Waveform: Sine
 Frequency: 1.00000 kHz
 Start Level: -140.000 dBFS
 Stop Level: -0.000 dBFS
 Step Type: Linear
 Number of Points: 71
 Step Size: +2.000 dBFS
 Offset: 0.000 D
 Selectivity: Window width
 Bandpass Tuning Mode: Generator Frequency
 Measured 1 6/16/2022 11:27:11 AM

Linearity (-20.000 dBFS) (6/16/2022 11:27:11.838 AM)



Linearity (-20.000 dBFS) Parameters

Schiit DAC APx555 Standard Test Suite: Modius E



Mode: Normalized at Reference

Relative Level: -20.000 dBFS

Result:  PASSED

Optical : Signal Path Setup

Output Connector:	Digital Optical
Output Sample Rate:	44.1000 kHz
Output Bit Depth:	24
Dither:	Enabled
Output Mode:	Consumer
Status Bits:	Auto (Consumer)
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Unbalanced
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Input EQ:	None
Channels:	2
Termination:	100 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	-20.000 dBFS
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.	
• 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

Optical : Jitter Level Sweep

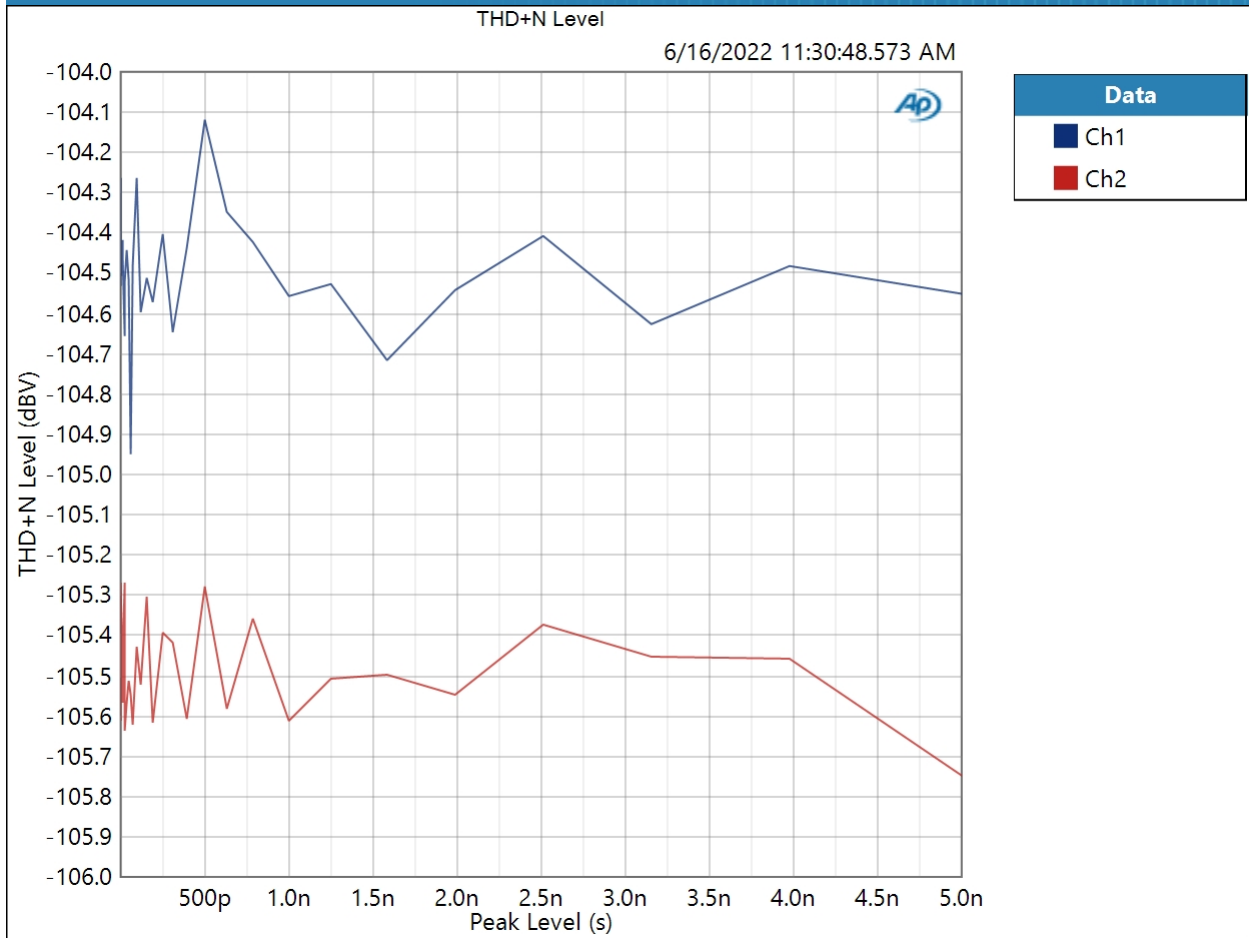
• Audio Generator

Waveform: Sine
 Generator Level: -0.000 dBFS
 DC Offset: 0.000 D
 Frequency: 1.00000 kHz

• Jitter Generator

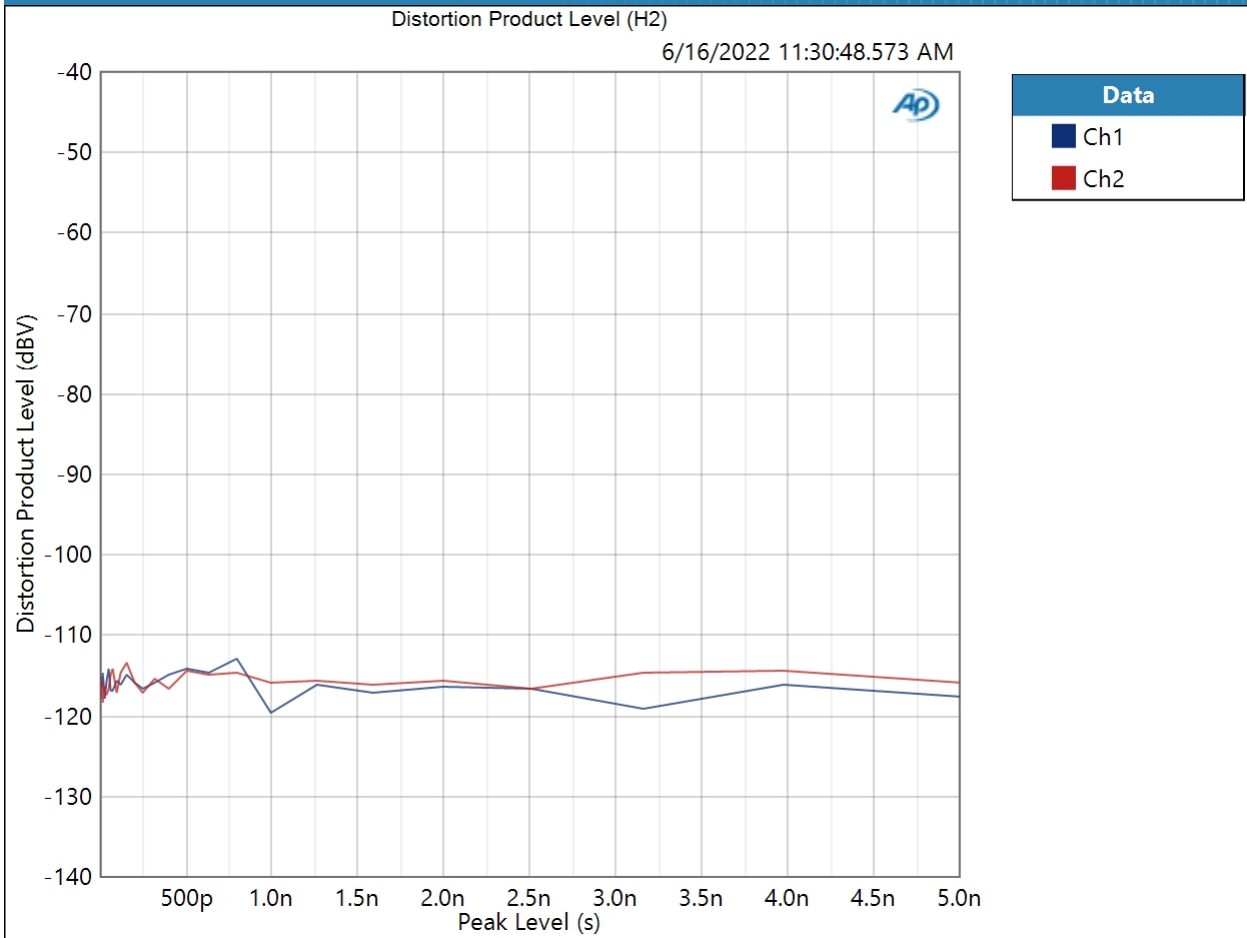
Jitter Waveform: Sine
 Start Level: 5.000 ps
 Stop Level: 5.000 ns
 Step Type: Logarithmic
 Number of Points: 31
 Jitter Frequency: 1.00000 kHz
 High-pass Filter: Elliptic
 High-pass Frequency: 20 Hz
 Low-pass Filter: Elliptic
 Low-pass Frequency: 20 kHz
 Weighting Filter: Signal Path
 Notch Tuning Mode: Generator Frequency
 Secondary Source: None
 Measured 1 6/16/2022 11:30:48 AM

THD+N Level (6/16/2022 11:30:48.573 AM)



Result: PASSED

Distortion Product Level (H2) (6/16/2022 11:30:48.573 AM)



Distortion Product Level (H2) Parameters

Harmonics: Single Harmonic

Harmonic Number: 2

Result: PASSED

Optical : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: -20.000 dBFS

DC Offset: 0.000 D

Frequency: 10.0000 kHz

Crosstalk (6/16/2022 11:12:04.542 AM)

Ch1 -118.989 dB

Ch2 -118.765 dB

Optical : Crosstalk Sweep, One Channel Driven

Generator Level: -20.000 dBFS

DC Offset: 0.000 D

Start Frequency: 20.0000 kHz

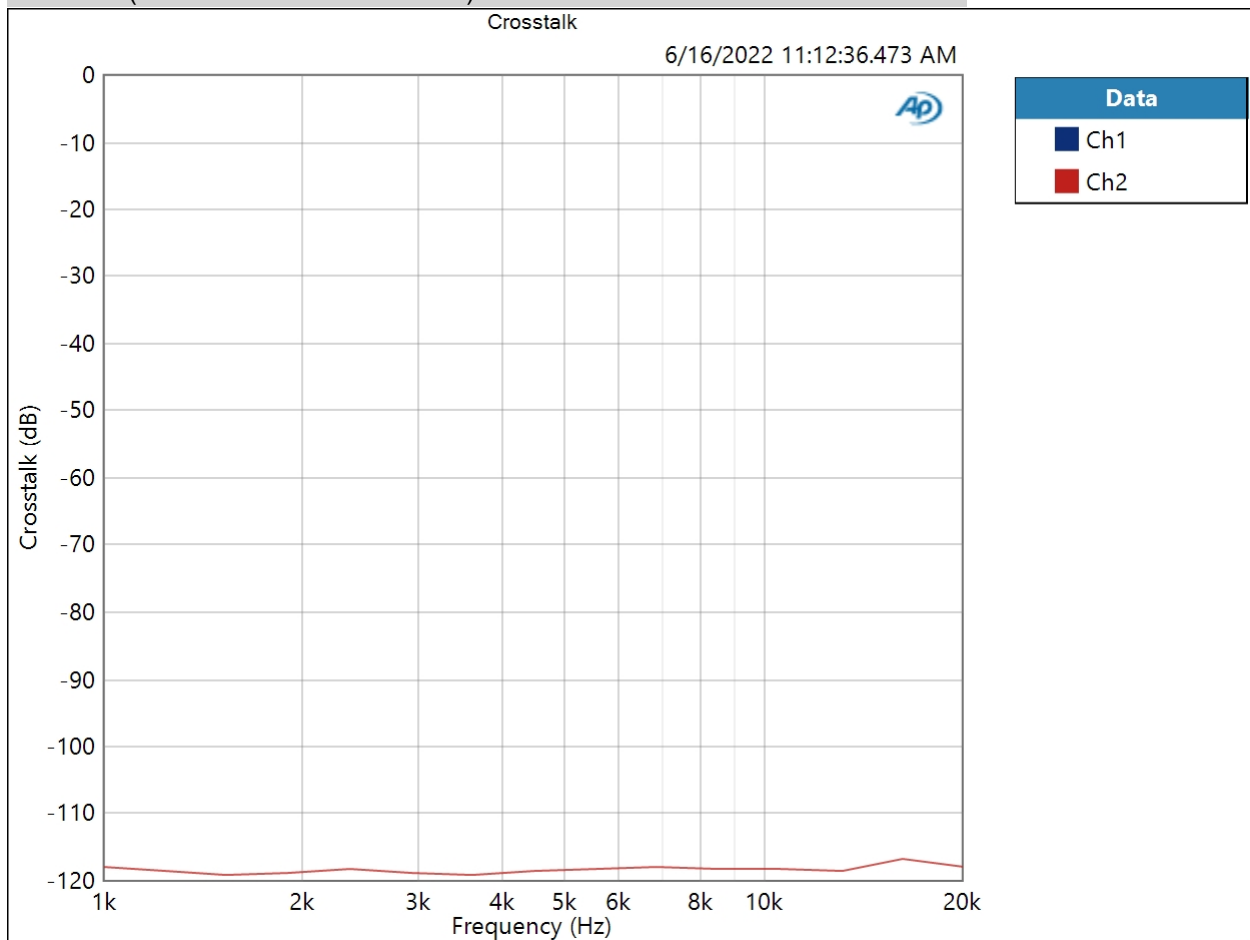
Stop Frequency: 1.00000 kHz

Step Type: Logarithmic

Number of Points: 15

Measured 1 6/16/2022 11:12:36 AM

Crosstalk (6/16/2022 11:12:36.473 AM)



Crosstalk Parameters

Source: Ch1

Result: PASSED