

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

Low Gain, 300 Ohm

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
Stepped Level Sweep	✓ PASSED

Low Gain, 32 Ohm

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
Stepped Level Sweep	✓ PASSED

High Gain, 300 Ohm

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
Stepped Level Sweep	✓ PASSED

High Gain, 32 Ohm

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
Stepped Level Sweep	✓ PASSED

Line Out

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

Sequence Result:

Sequence Result: ✓ PASSED

APx Instrument

Instrument ID: 11571
Calibration Date: 5/8/2018
APx Version: 5.0.0.105.133644

Low Gain, 300 Ohm : Signal Path Setup

Output Connector: ASIO
 Output Sample Rate: 48.0000 kHz
 Output EQ: None
 Input Connector: Analog Unbalanced
 Channels: 2
 Termination: 300 ohm
 High Performance Sine Analyzer: Enabled
 Input Bandwidth: AC (<10 Hz) - 22.4k (48 kHz SR)
 Device Delay: 0.000 s
 Input EQ: None

• References

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

Low Gain, 300 Ohm : Level and Gain

Waveform: Sine
Generator Level: -5.500 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz

RMS Level (10/9/2019 11:41:40.885 AM)

Ch1 1.020 Vrms
Ch2 1.017 Vrms

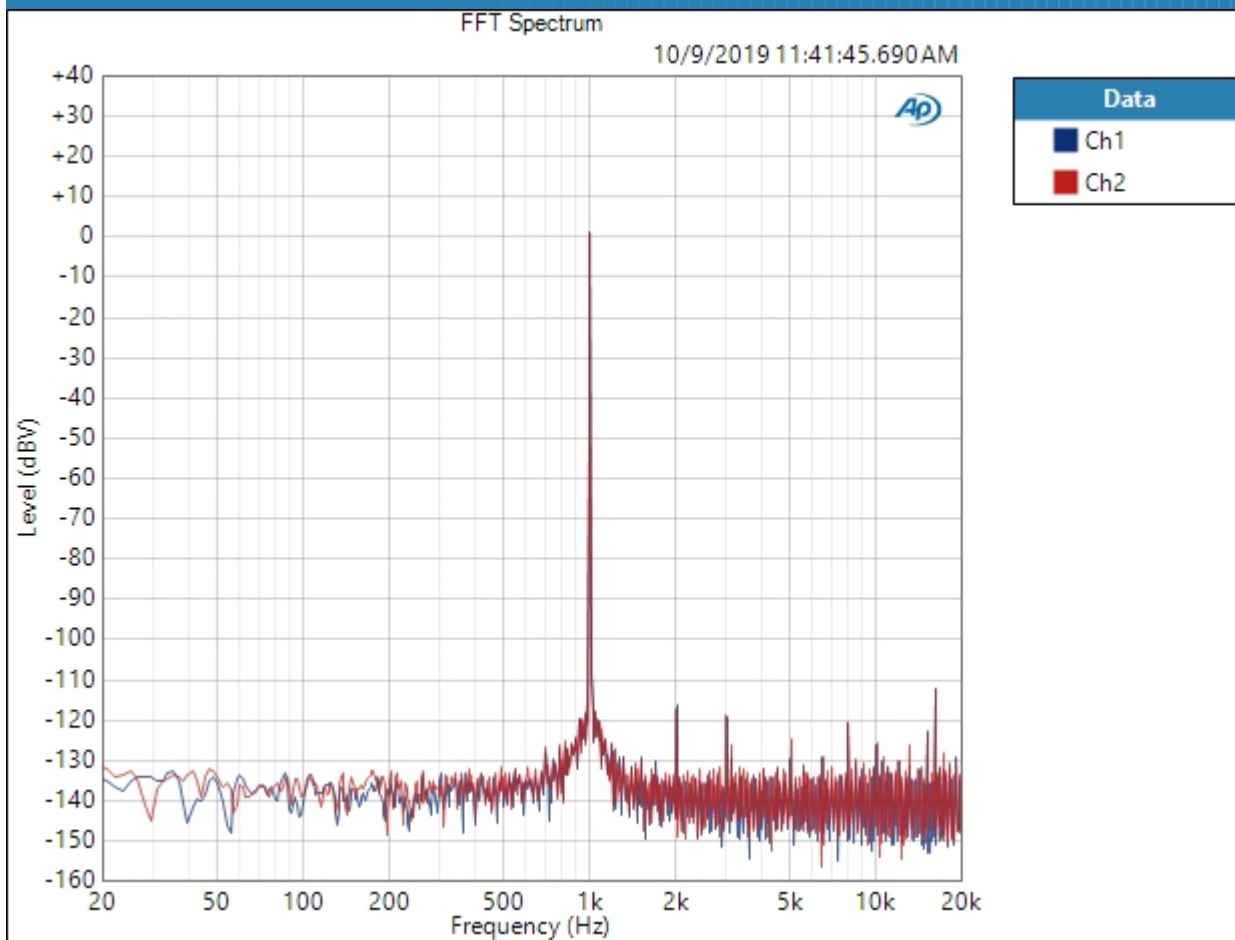
Low Gain, 300 Ohm : DC Level

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 (10/9/2019 11:41:42.003 AM)

Ch1 -10.49 mV
Ch2 -8.774 mV

Low Gain, 300 Ohm : Signal Analyzer
Waveform: Sine
Generator Level: -4.500 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 10/9/2019 11:41:45 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 (10/9/2019 11:41:45.690 AM)

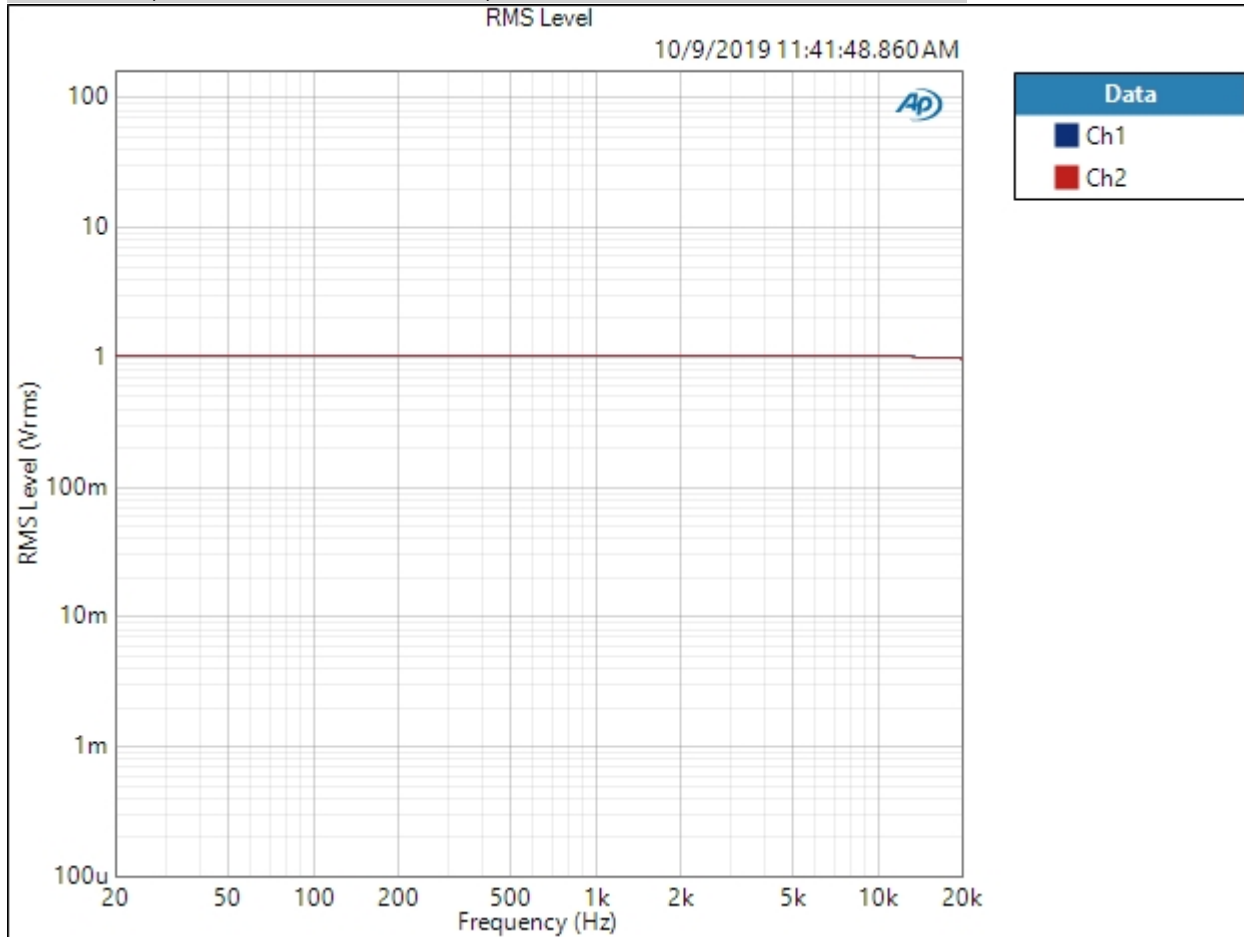


Result:  PASSED

Low Gain, 300 Ohm : Frequency Response

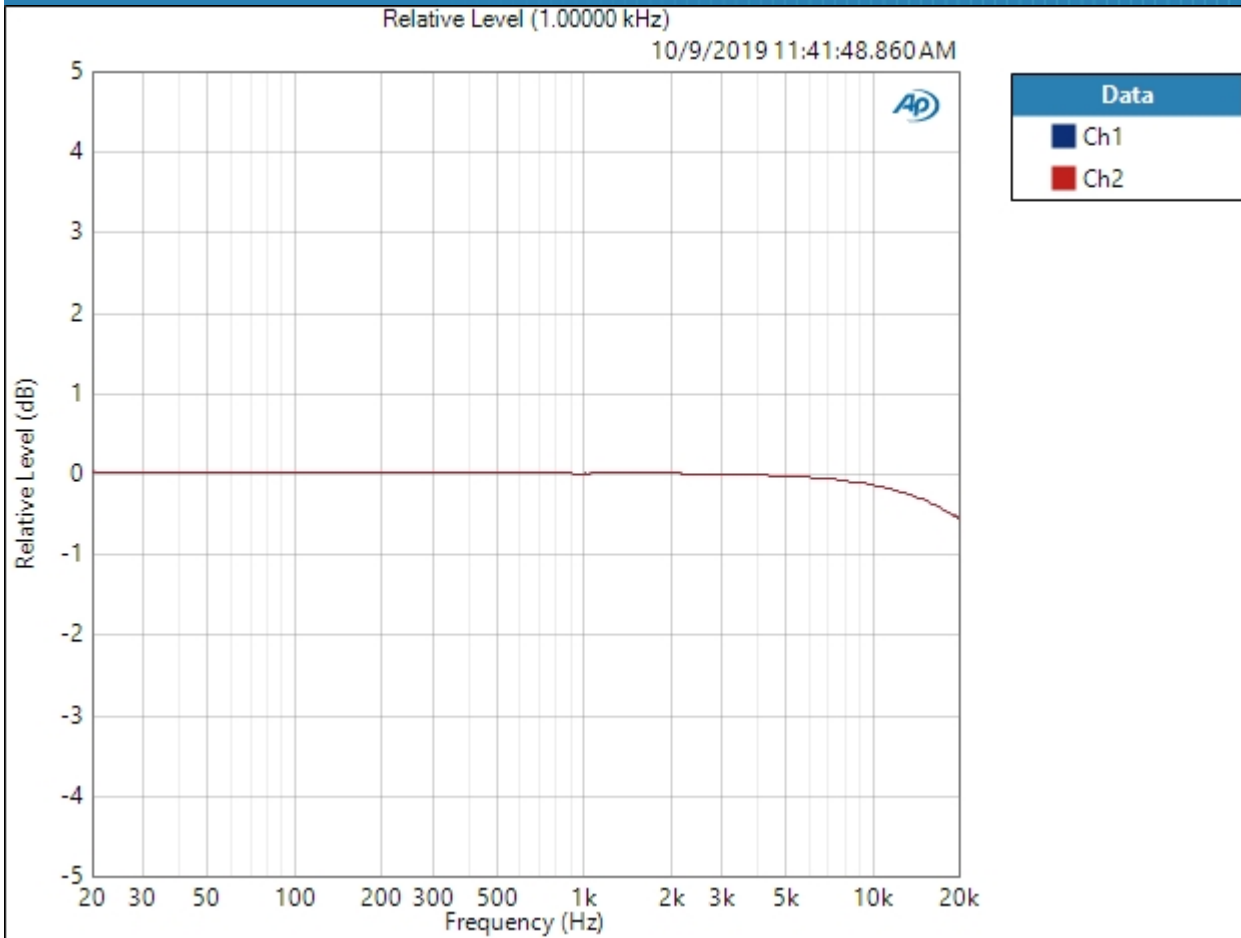
Start Frequency: 20.0000 Hz
 Stop Frequency: 20.0000 kHz
 Generator Level: -5.500 dBFS
 DC Offset: 0.000 D
 EQ: None
 Pre-Sweep: 100.0 ms
 Sweep: 350.0 ms
 Extend Acquisition By: 500.0 ms
 Secondary Source: None
 Measured 1 10/9/2019 11:41:48 AM

RMS Level (10/9/2019 11:41:48.860 AM)



Result: PASSED

Relative Level (1.00000 kHz) (10/9/2019 11:41:48.860 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) (10/9/2019 11:41:48.860 AM)

Ch1 ± 0.302 dB

Ch2 ± 0.301 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Low Gain, 300 Ohm : Signal to Noise Ratio

Waveform: Sine

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Frequency: 1.00000 kHz

Low-pass Filter: 20 kHz

Weighting Filter: Signal Path

High-pass Filter: 20 Hz

Signal to Noise Ratio (10/9/2019 11:41:50.744 AM)

Ch1 110.147 dB

Ch2 110.026 dB

Low Gain, 300 Ohm : THD+N

Waveform: Sine
 Generator Level: -5.500 dBFS
 DC Offset: 0.000 D
 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 (10/9/2019 11:41:53.343 AM)

Ch1 0.000804 %
 Ch2 0.000903 %

THD Ratio (10/9/2019 11:41:53.343 AM)

Ch1 0.000311 %
 Ch2 0.000337 %

Noise Ratio (10/9/2019 11:41:53.343 AM)

Ch1 0.000738 %
 Ch2 0.000842 %

Distortion Product Ratio (10/9/2019 11:41:53.343 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	-119.28	-124.10	-126.99	-128.40	-126.44	-124.69	-123.31	-128.18	-128.92
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-120.05	-119.72	-124.57	-126.23	-127.70	-129.22	-120.66	-127.70	-128.62

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB

Low Gain, 300 Ohm : IMD Level Sweep (CCIF)

IMD Type: CCIF

Waveform: IMD

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

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 10/9/2019 11:42:21 AM

CCIF Ratio (10/9/2019 11:42:21.757 AM)

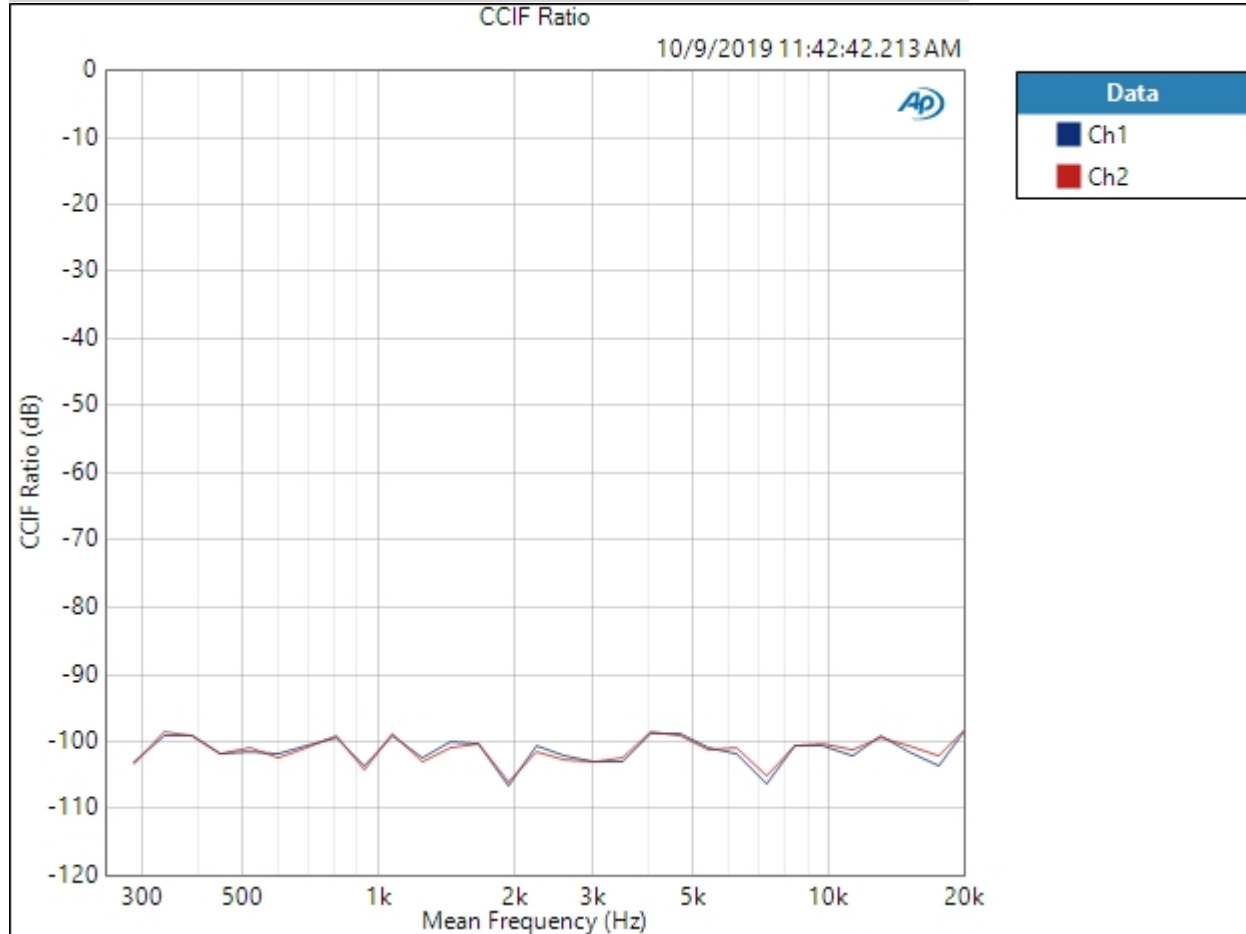


Result: PASSED

Low Gain, 300 Ohm : IMD Frequency Sweep (CCIF)

Generator Level: -5.500 dBFS
 DC Offset: 0.000 D
 Sweep Frequency: Mean Frequency
 Mean Frequency: 12.5000 kHz
 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 10/9/2019 11:42:42 AM

CCIF Ratio (10/9/2019 11:42:42.213 AM)



Result:  PASSED

Low Gain, 300 Ohm : Crosstalk, One Channel Undriven

Waveform: Sine
Generator Level: -14.000 dBFS
DC Offset: 0.000 D
Frequency: 10.0000 kHz

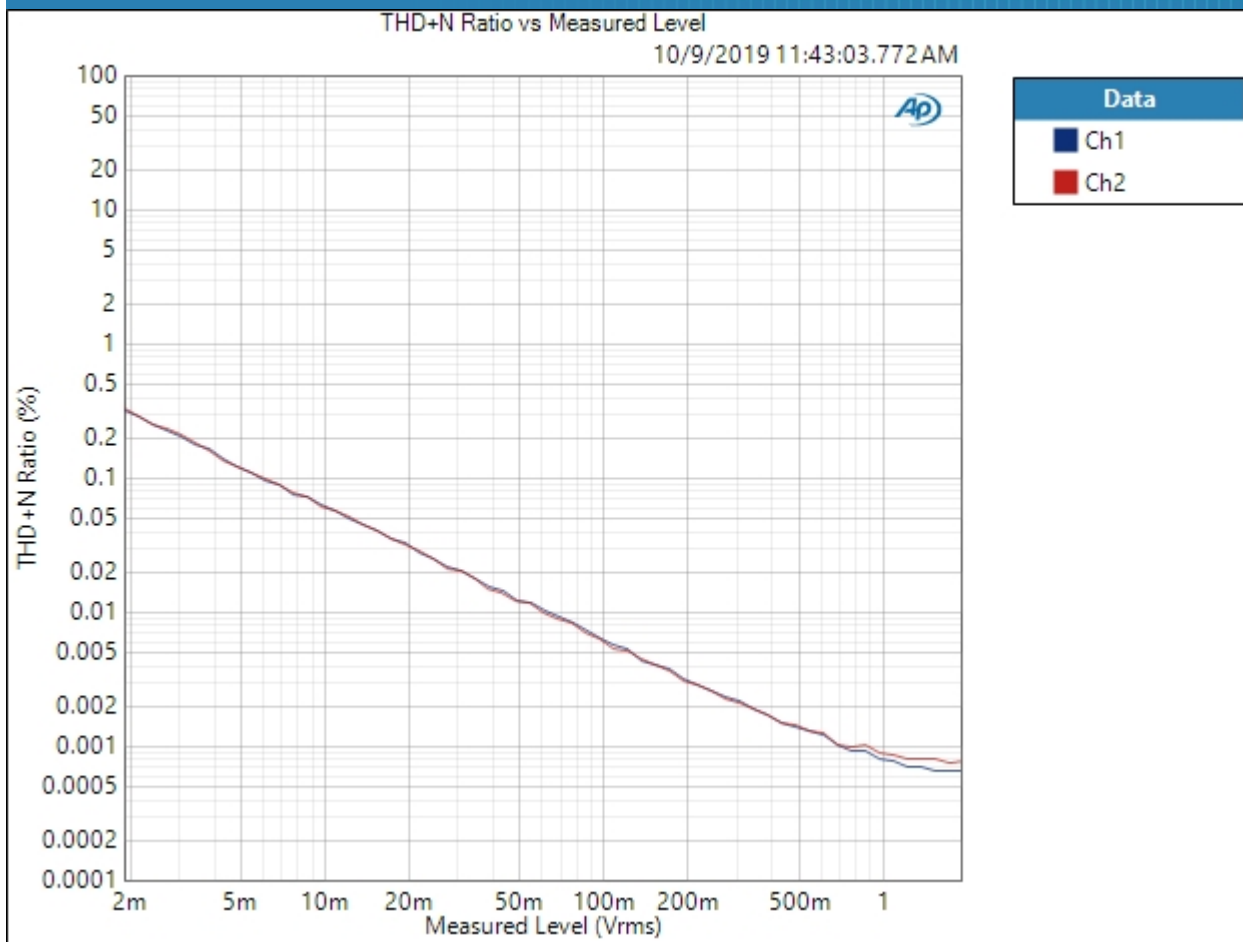
Crosstalk (10/9/2019 11:42:43.786 AM)

Ch1 86.581 dB
Ch2 87.405 dB

Low Gain, 300 Ohm : Stepped Level Sweep

Waveform: Sine
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
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
Low-pass Filter: 20 kHz
Weighting Filter: Signal Path
High-pass Filter: 20 Hz
Notch Tuning Mode: Generator Frequency
Measured 1 10/9/2019 11:43:03 AM

THD+N Ratio vs Measured Level (10/9/2019 11:43:03.772 AM)



Result: PASSED

Low Gain, 32 Ohm : Signal Path Setup

Output Connector:	ASIO
Output Sample Rate:	48.0000 kHz
Output EQ:	None
Input Connector:	Analog Unbalanced
Channels:	2
Termination:	100 kohm
High Performance Sine Analyzer:	Enabled
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
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

Low Gain, 32 Ohm : Level and Gain

Waveform: Sine
Generator Level: -5.500 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz

RMS Level (10/9/2019 11:43:18.374 AM)

Ch1 1.009 Vrms
Ch2 1.007 Vrms

Low Gain, 32 Ohm : 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

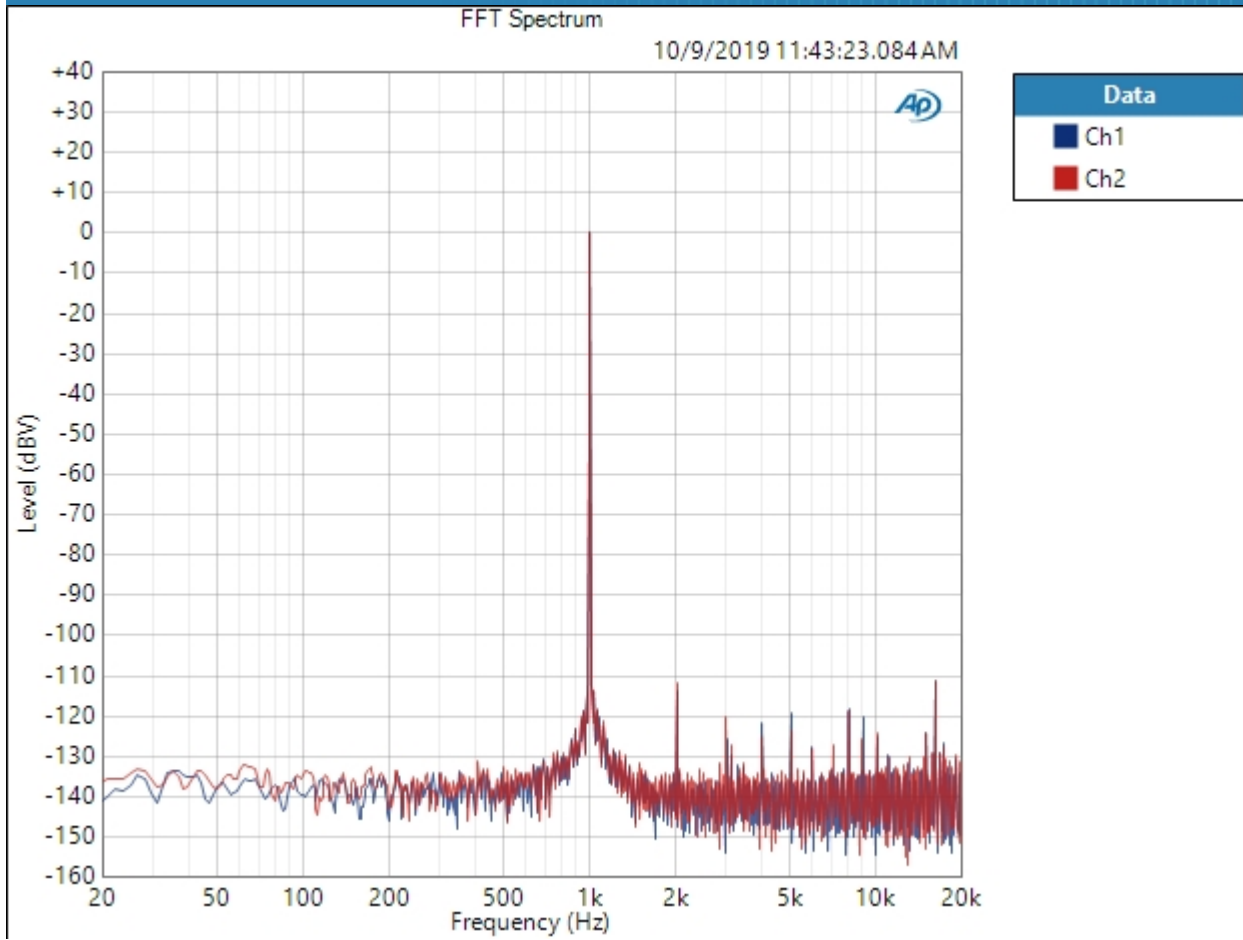
DC Level (10/9/2019 11:43:19.456 AM)

Ch1 -10.39 mV
Ch2 -8.687 mV

Low Gain, 32 Ohm : Signal Analyzer

Waveform: Sine
Generator Level: -5.500 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 10/9/2019 11:43:23 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 (10/9/2019 11:43:23.084 AM)

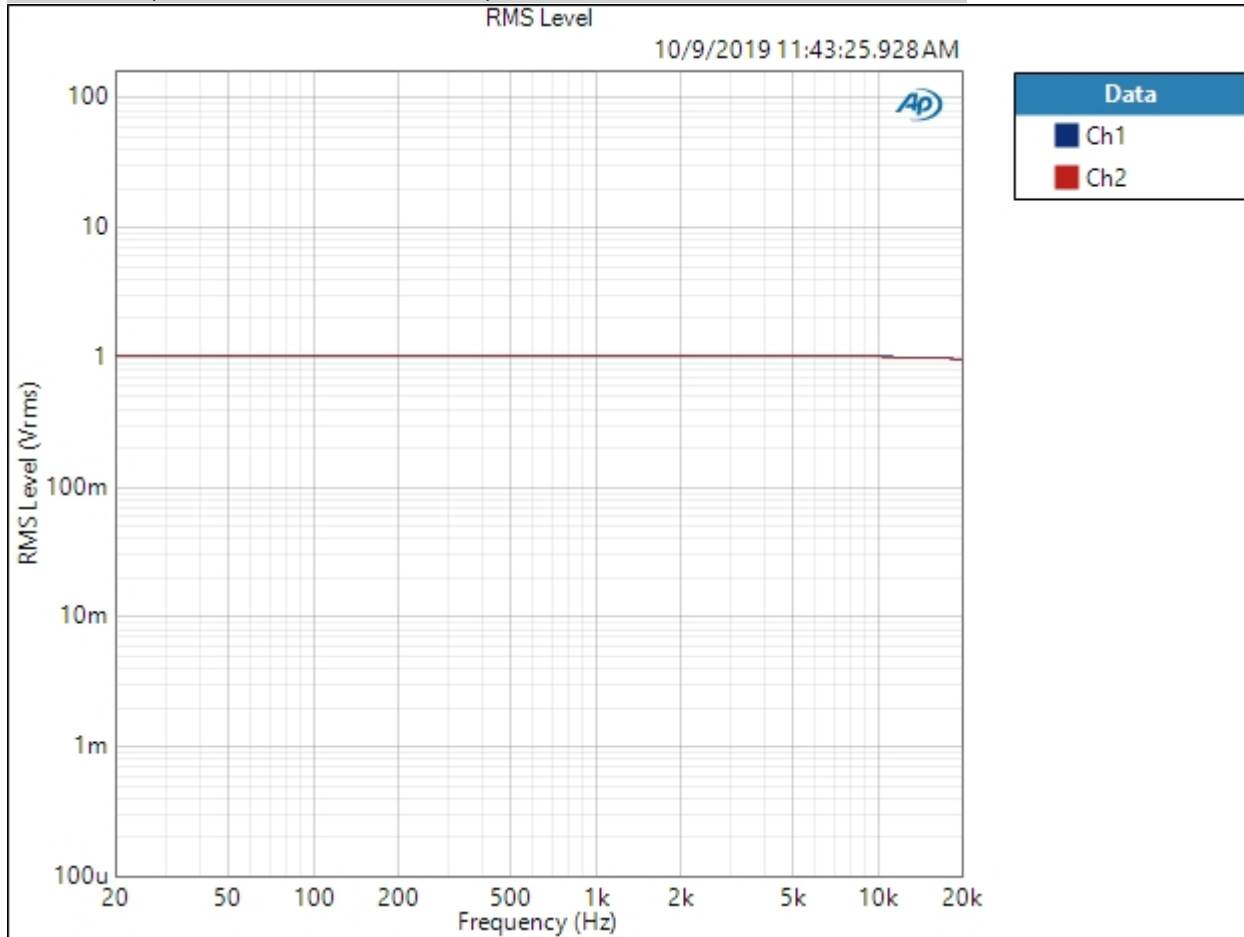


Result:  PASSED

Low Gain, 32 Ohm : Frequency Response

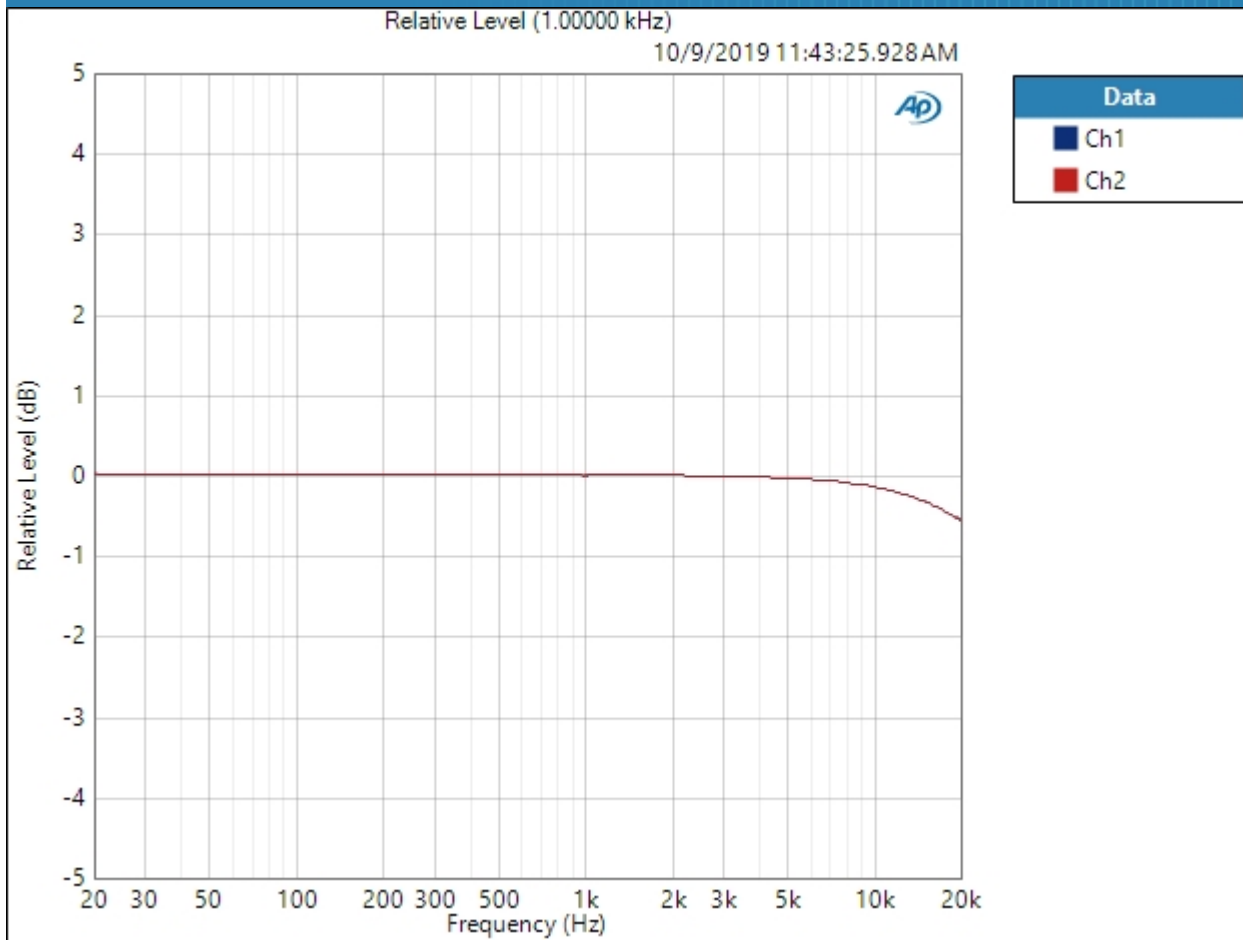
Start Frequency: 20.0000 Hz
 Stop Frequency: 20.0000 kHz
 Generator Level: -5.500 dBFS
 DC Offset: 0.000 D
 EQ: None
 Pre-Sweep: 100.0 ms
 Sweep: 350.0 ms
 Extend Acquisition By: 500.0 ms
 Secondary Source: None
 Measured 1 10/9/2019 11:43:25 AM

RMS Level (10/9/2019 11:43:25.928 AM)



Result: PASSED

Relative Level (1.00000 kHz) (10/9/2019 11:43:25.928 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) (10/9/2019 11:43:25.928 AM)

Ch1 ± 0.302 dB

Ch2 ± 0.302 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Low Gain, 32 Ohm : Signal to Noise Ratio

Waveform: Sine

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Frequency: 1.00000 kHz

Low-pass Filter: 20 kHz

Weighting Filter: Signal Path

High-pass Filter: 20 Hz

Signal to Noise Ratio (10/9/2019 11:43:27.812 AM)

Ch1 109.966 dB

Ch2 109.917 dB

Low Gain, 32 Ohm : THD+N

Waveform: Sine
 Generator Level: -5.500 dBFS
 DC Offset: 0.000 D
 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 (10/9/2019 11:43:31.122 AM)

Ch1 0.000826 %
 Ch2 0.000908 %

THD Ratio (10/9/2019 11:43:31.122 AM)

Ch1 0.000406 %
 Ch2 0.000424 %

Noise Ratio (10/9/2019 11:43:31.122 AM)

Ch1 0.000707 %
 Ch2 0.000794 %

Distortion Product Ratio (10/9/2019 11:43:31.122 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	-113.08	-122.35	-124.01	-122.57	-124.16	-121.19	-121.10	-129.38	-127.03
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-111.26	-121.69	-124.75	-126.63	-121.99	-124.37	-121.99	-126.20	-126.12

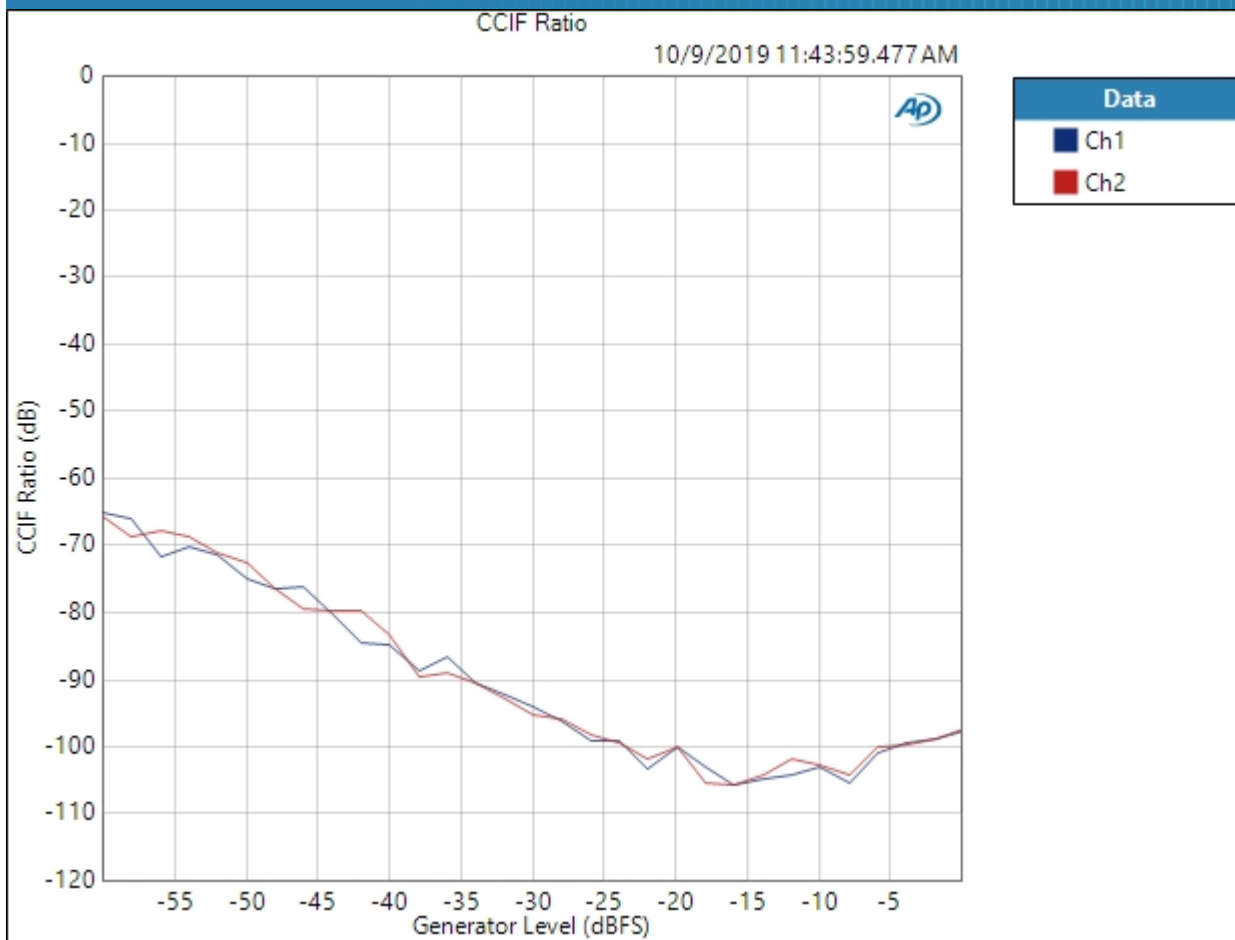
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB

Low Gain, 32 Ohm : IMD Level Sweep (CCIF)

IMD Type: CCIF
Waveform: IMD
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
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 10/9/2019 11:43:59 AM

CCIF Ratio (10/9/2019 11:43:59.477 AM)

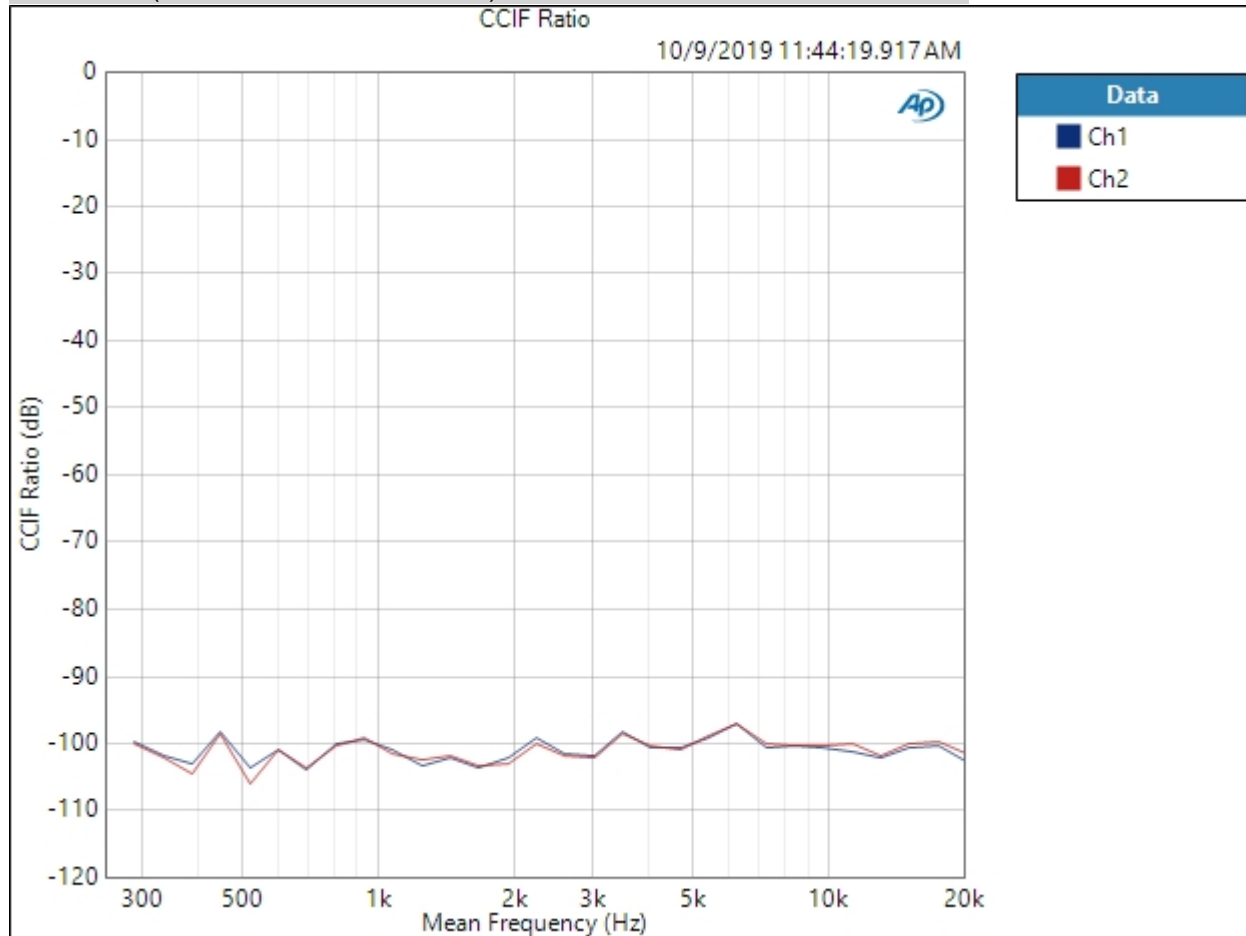


Result: PASSED

Low Gain, 32 Ohm : IMD Frequency Sweep (CCIF)

Generator Level: -5.500 dBFS
 DC Offset: 0.000 D
 Sweep Frequency: Mean Frequency
 Mean Frequency: 12.5000 kHz
 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 10/9/2019 11:44:19 AM

CCIF Ratio (10/9/2019 11:44:19.917 AM)



Result:  PASSED

Low Gain, 32 Ohm : Crosstalk, One Channel Undriven

Waveform: Sine
Generator Level: -14.000 dBFS
DC Offset: 0.000 D
Frequency: 10.0000 kHz

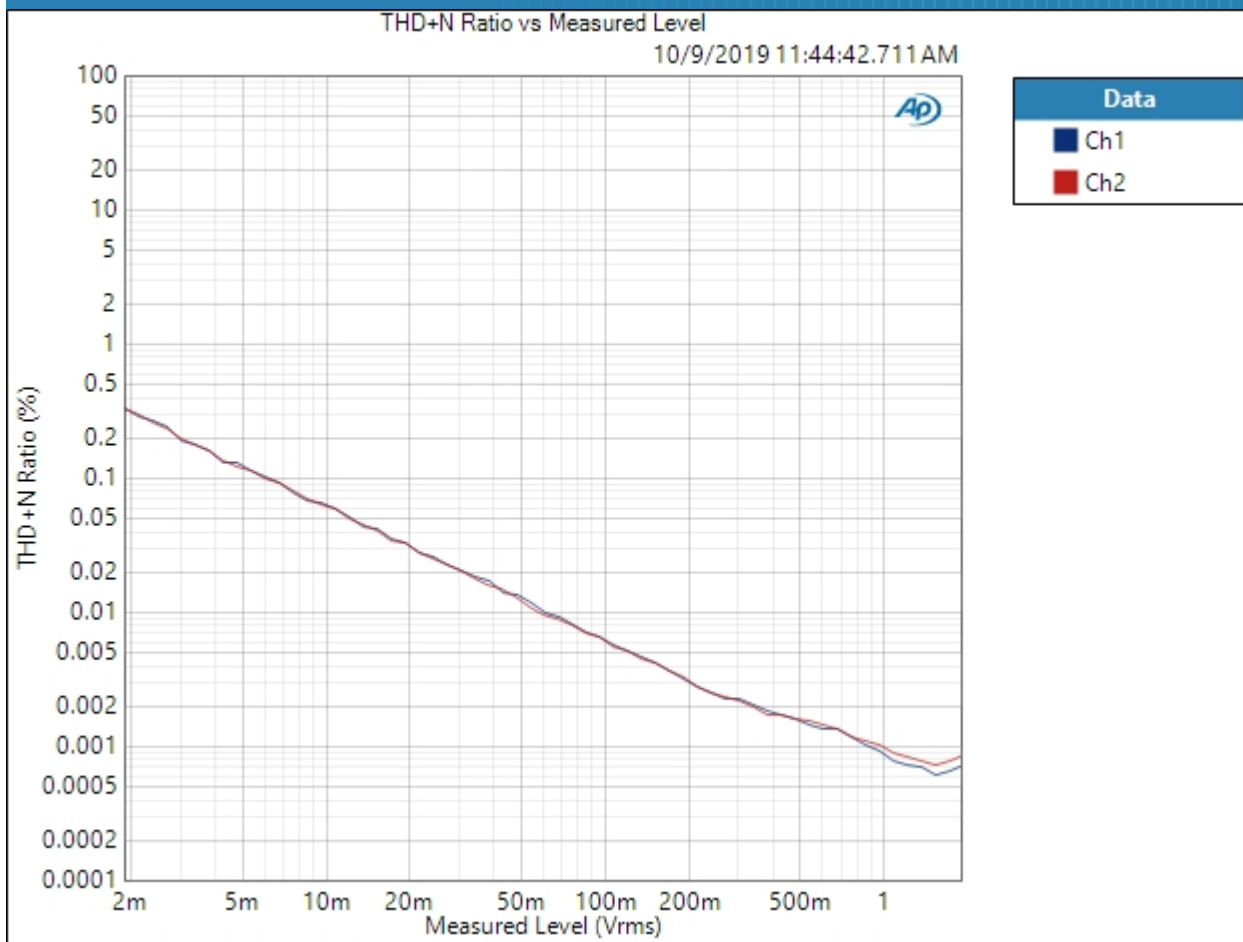
Crosstalk (10/9/2019 11:44:21.122 AM)

Ch1 73.362 dB
Ch2 73.512 dB

Low Gain, 32 Ohm : Stepped Level Sweep

Waveform: Sine
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
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
Low-pass Filter: 20 kHz
Weighting Filter: Signal Path
High-pass Filter: 20 Hz
Notch Tuning Mode: Generator Frequency
Measured 1 10/9/2019 11:44:42 AM

THD+N Ratio vs Measured Level (10/9/2019 11:44:42.711 AM)



Result: ✔ PASSED

High Gain, 300 Ohm : Signal Path Setup

Output Connector: ASIO
 Output Sample Rate: 48.0000 kHz
 Output EQ: None
 Input Connector: Analog Unbalanced
 Channels: 2
 Termination: 300 ohm
 High Performance Sine Analyzer: Enabled
 Input Bandwidth: AC (<10 Hz) - 22.4k (48 kHz SR)
 Device Delay: 0.000 s
 Input EQ: None

- References

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

High Gain, 300 Ohm : Level and Gain

Waveform: Sine
Generator Level: -21.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz

RMS Level (10/9/2019 11:45:03.120 AM)

Ch1 1.069 Vrms
Ch2 1.065 Vrms

High Gain, 300 Ohm : 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

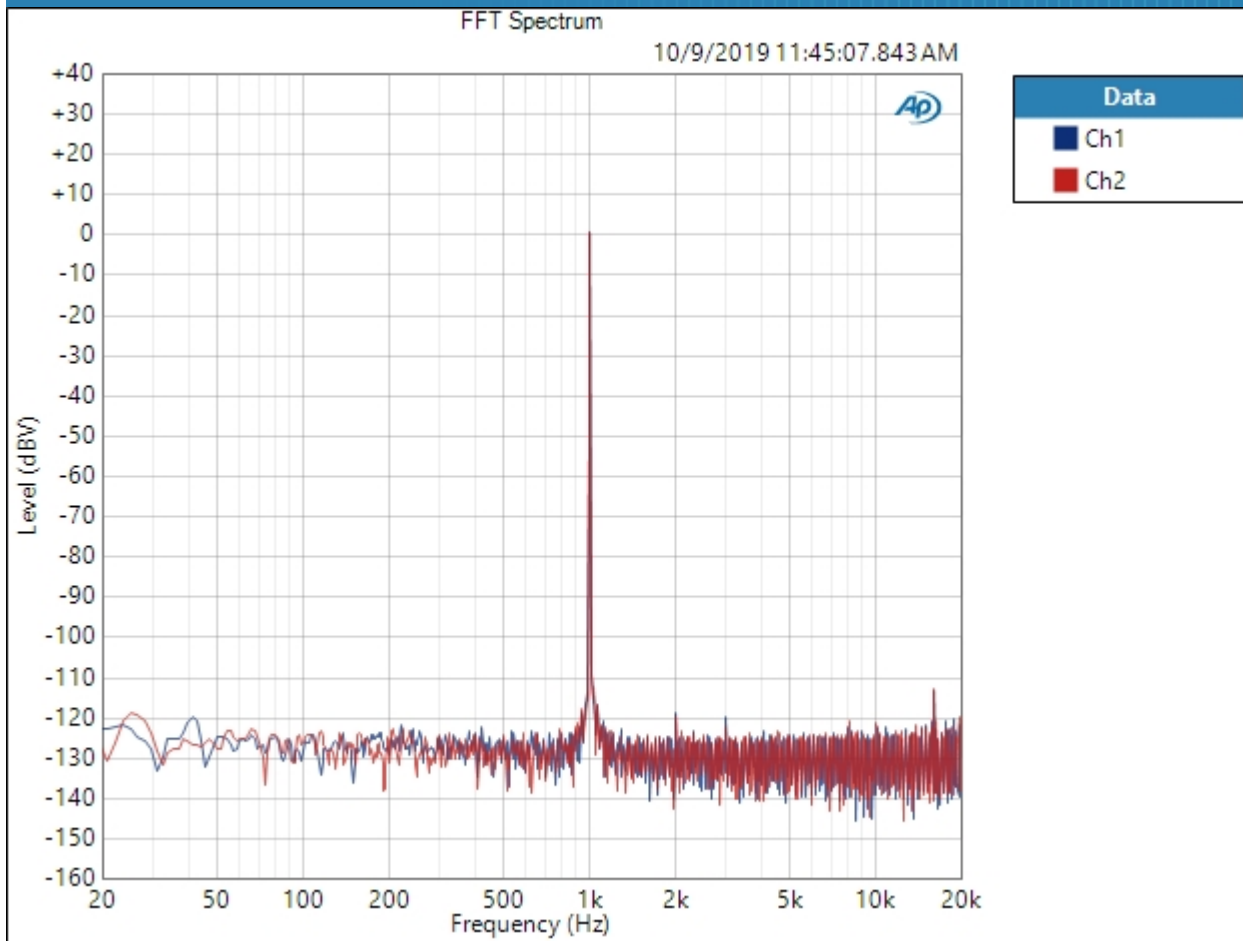
DC Level (10/9/2019 11:45:04.193 AM)

Ch1 -5.39 mV
Ch2 -3.49 mV

High Gain, 300 Ohm : Signal Analyzer

Waveform: Sine
Generator Level: -21.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 10/9/2019 11:45:07 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 (10/9/2019 11:45:07.843 AM)

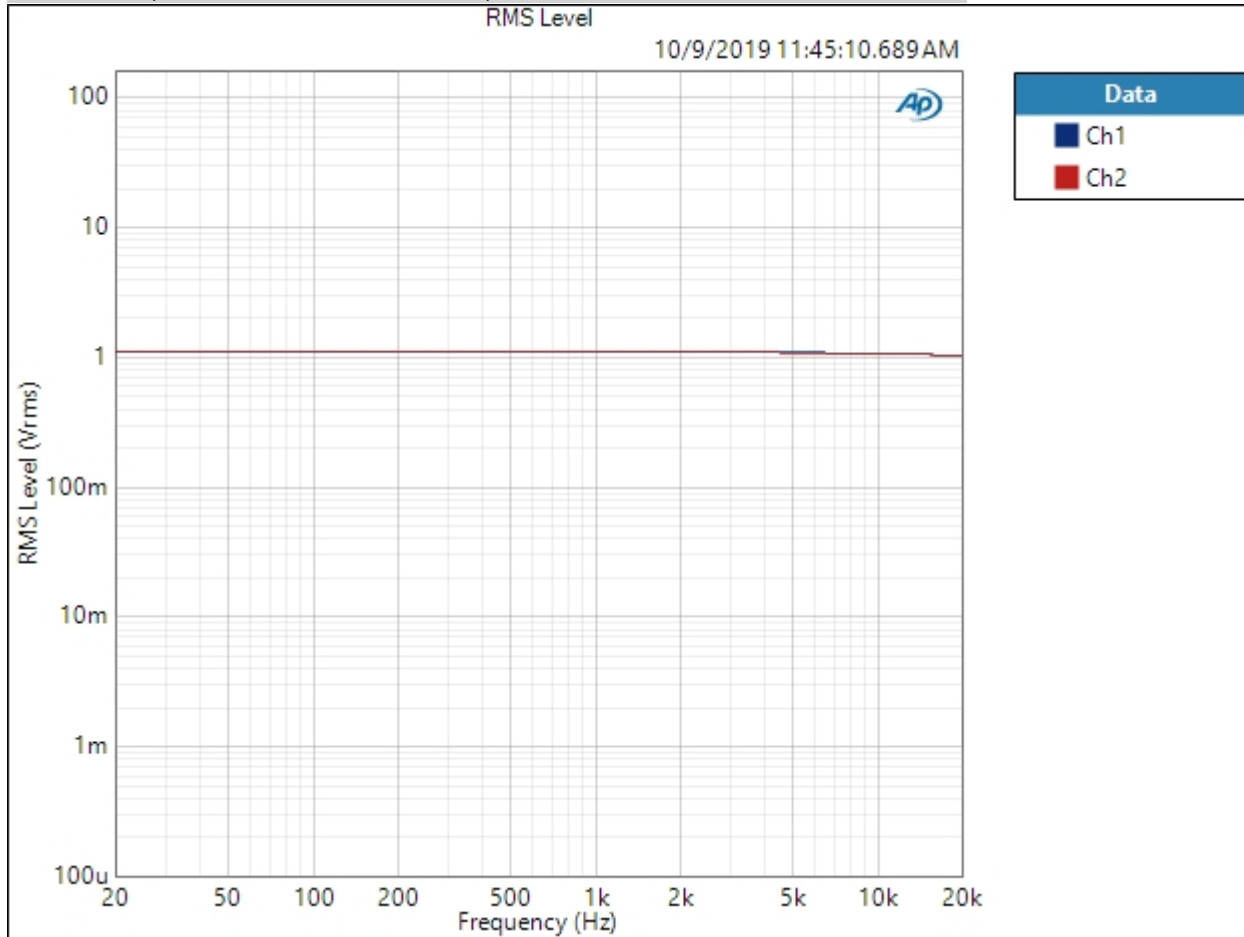


Result: PASSED

High Gain, 300 Ohm : Frequency Response

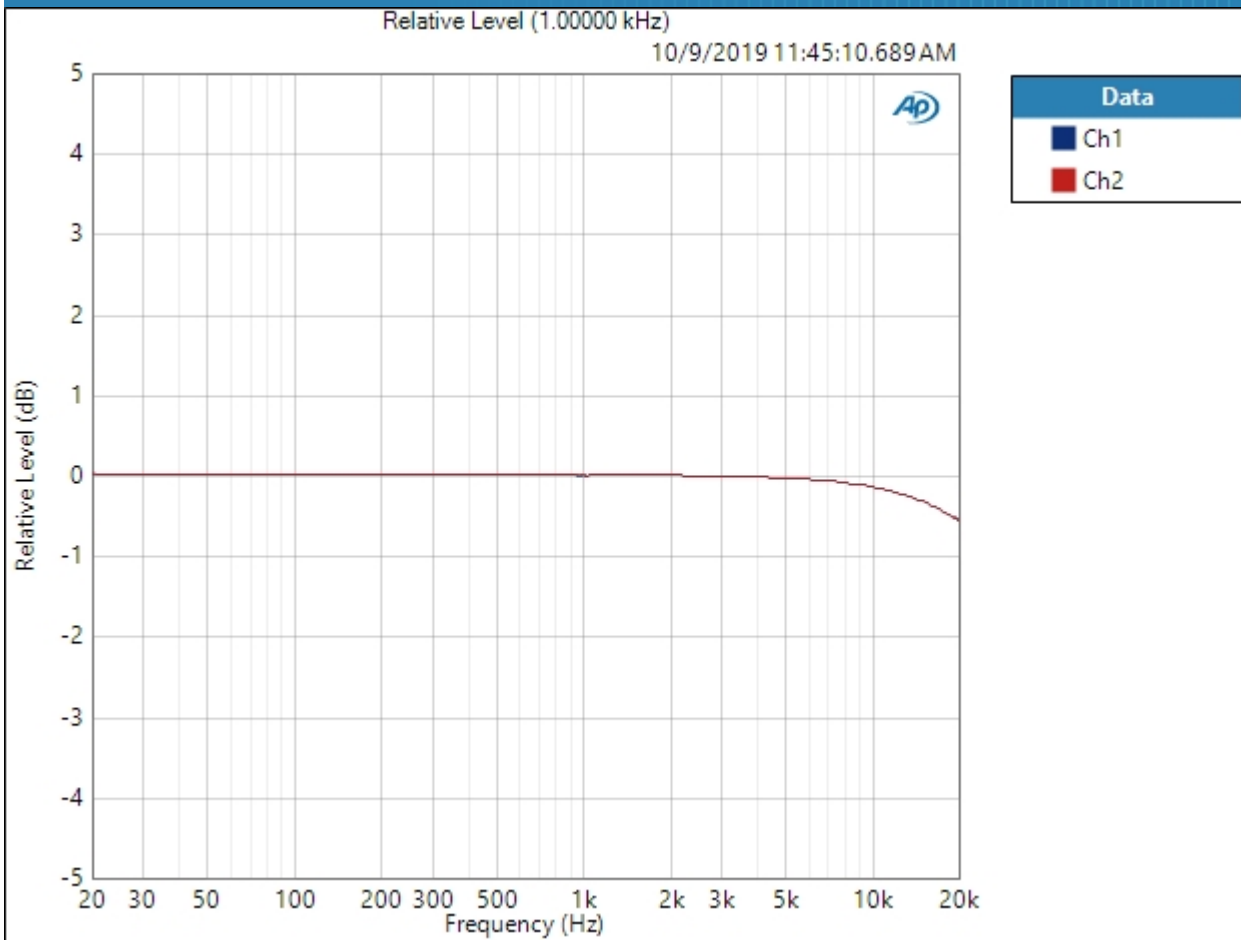
Start Frequency: 20.0000 Hz
 Stop Frequency: 20.0000 kHz
 Generator Level: -21.000 dBFS
 DC Offset: 0.000 D
 EQ: None
 Pre-Sweep: 100.0 ms
 Sweep: 350.0 ms
 Extend Acquisition By: 500.0 ms
 Secondary Source: None
 Measured 1 10/9/2019 11:45:10 AM

RMS Level (10/9/2019 11:45:10.689 AM)



Result: PASSED

Relative Level (1.00000 kHz) (10/9/2019 11:45:10.689 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) (10/9/2019 11:45:10.689 AM)

Ch1 ± 0.302 dB

Ch2 ± 0.302 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

High Gain, 300 Ohm : Signal to Noise Ratio

Waveform: Sine

Generator Level: -15.000 dBFS

DC Offset: 0.000 D

Frequency: 1.00000 kHz

Low-pass Filter: 20 kHz

Weighting Filter: Signal Path

High-pass Filter: 20 Hz

Signal to Noise Ratio (10/9/2019 11:45:12.584 AM)

Ch1 98.910 dB

Ch2 98.544 dB

High Gain, 300 Ohm : THD+N
 Waveform: Sine
 Generator Level: -22.000 dBFS
 DC Offset: 0.000 D
 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 (10/9/2019 11:45:14.861 AM)

Ch1 0.002638 %
 Ch2 0.002622 %

THD Ratio (10/9/2019 11:45:14.861 AM)

Ch1 0.000584 %
 Ch2 0.000506 %

Noise Ratio (10/9/2019 11:45:14.861 AM)

Ch1 0.002558 %
 Ch2 0.002559 %

Distortion Product Ratio (10/9/2019 11:45:14.861 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	-115.91	-116.54	-120.22	-120.67	-121.68	-119.88	-114.39	-121.11	-120.42
Ch2	-0.00	-118.59	-114.18	-124.00	-119.45	-121.60	-119.70	-120.14	-124.04	-121.07

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB

High Gain, 300 Ohm : IMD Level Sweep (CCIF)

IMD Type: CCIF

Waveform: IMD

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

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

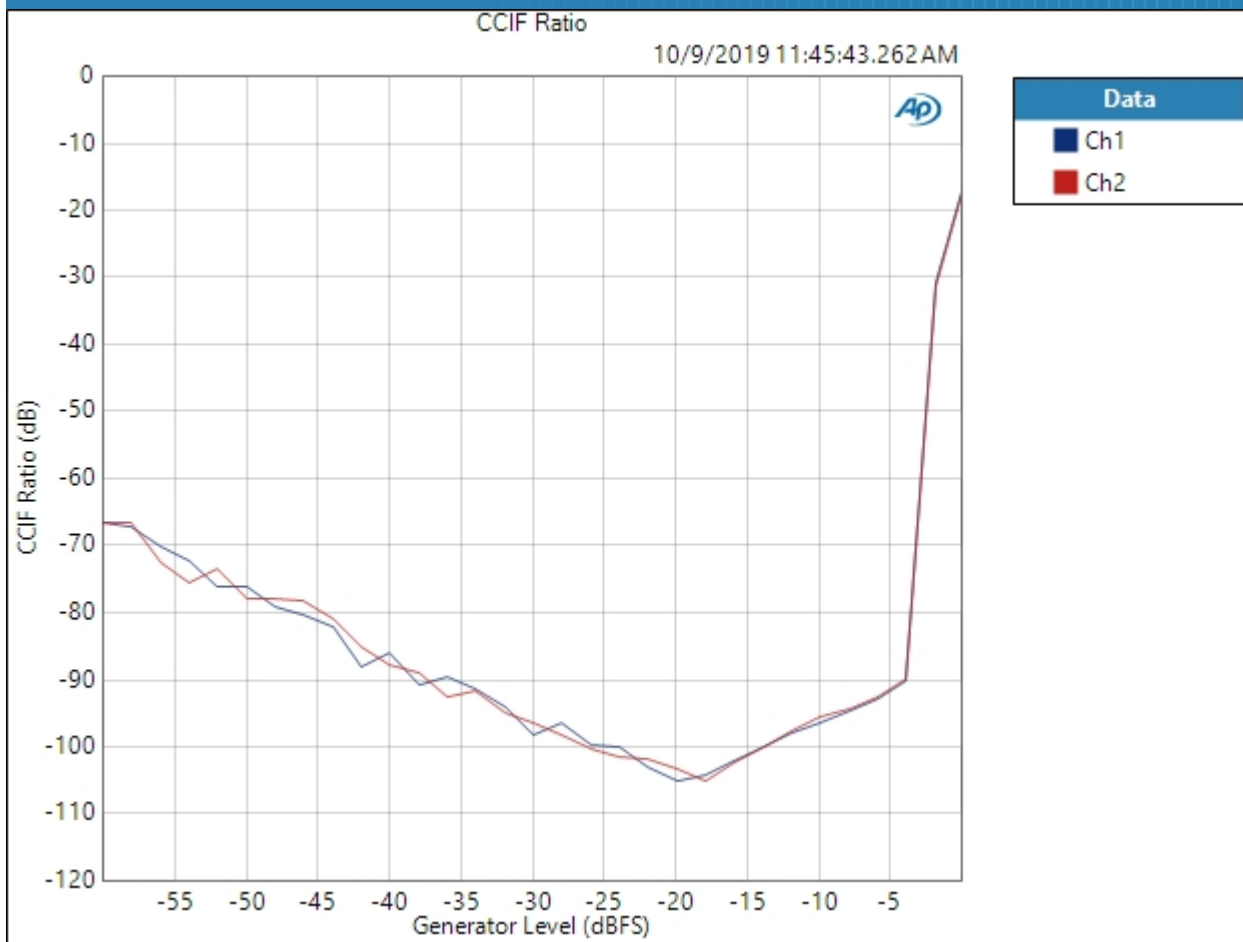
Number of Points: 31

Step Size: +2.000 dBFS

Mode: d2+d3

Measured 1 10/9/2019 11:45:43 AM

CCIF Ratio (10/9/2019 11:45:43.262 AM)



Result: PASSED

Schiit DAC APx555 Standard Test Suite: Hel



High Gain, 300 Ohm : IMD Frequency Sweep (CCIF)

Generator Level: -22.000 dBFS

DC Offset: 0.000 D

Sweep Frequency: Mean Frequency

Mean Frequency: 12.5000 kHz

Diff Frequency: 80.0000 Hz

IMD Split: False

Start Frequency: 20.0000 kHz

Stop Frequency: 250.000 Hz

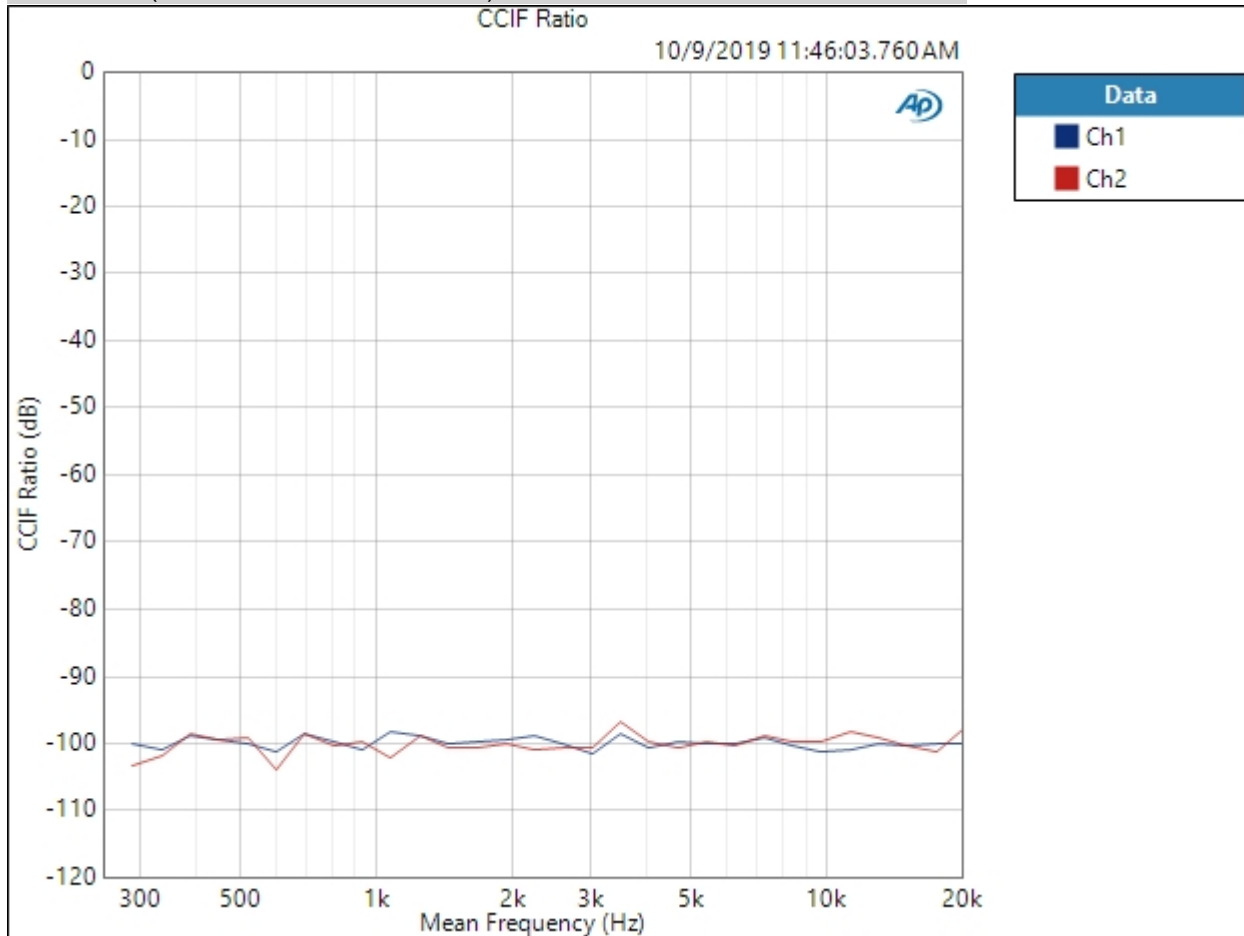
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 10/9/2019 11:46:03 AM

CCIF Ratio (10/9/2019 11:46:03.760 AM)



10/9/2019 12:20 PM

Result:  PASSED

High Gain, 300 Ohm : Crosstalk, One Channel Undriven

Waveform: Sine
Generator Level: -21.000 dBFS
DC Offset: 0.000 D
Frequency: 10.0000 kHz

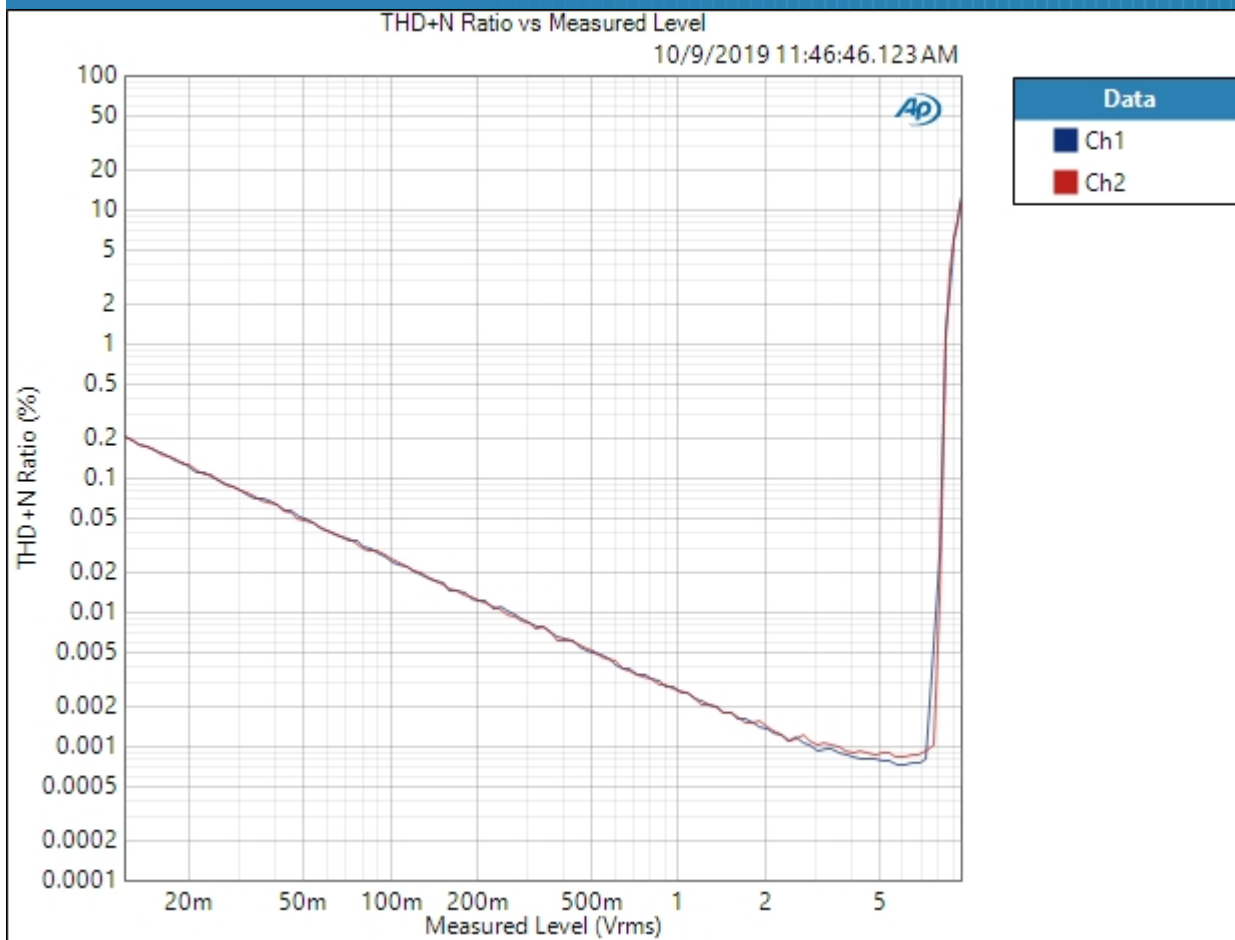
Crosstalk (10/9/2019 11:46:05.743 AM)

Ch1 80.224 dB
Ch2 80.474 dB

High Gain, 300 Ohm : Stepped Level Sweep

Waveform: Sine
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Start Level: -60.000 dBFS
Stop Level: -0.000 dBFS
Step Type: Linear
Number of Points: 121
Step Size: +0.500 dBFS
Offset: 0.000 D
Low-pass Filter: 20 kHz
Weighting Filter: Signal Path
High-pass Filter: 20 Hz
Notch Tuning Mode: Generator Frequency
Measured 1 10/9/2019 11:46:46 AM

THD+N Ratio vs Measured Level (10/9/2019 11:46:46.123 AM)



Result: PASSED

High Gain, 32 Ohm : Signal Path Setup

Output Connector: ASIO
 Output Sample Rate: 48.0000 kHz
 Output EQ: None
 Input Connector: Analog Unbalanced
 Channels: 2
 Termination: 100 kohm
 High Performance Sine Analyzer: Enabled
 Input Bandwidth: AC (<10 Hz) - 22.4k (48 kHz SR)
 Device Delay: 0.000 s
 Input EQ: None

• References

dBr G: -20.000 dBFS
 Shared Frequency Reference: 1.00000 kHz
 dBrA: 1.000 Vrms
 dBrB: 1.000 Vrms
 dBrA Offset: 0.000 dB
 dBrB Offset: 0.000 dB
 dBSPL1: 10.00 mVrms
 dBSPL2: 10.00 mVrms
 dBSPL1 Calibrator Level: 94.000 dB SPL
 dBSPL2 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

High Gain, 32 Ohm : Level and Gain

Waveform: Sine
Generator Level: -21.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz

RMS Level (10/9/2019 11:46:56.195 AM)

Ch1 1.058 Vrms
Ch2 1.054 Vrms

High Gain, 32 Ohm : 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

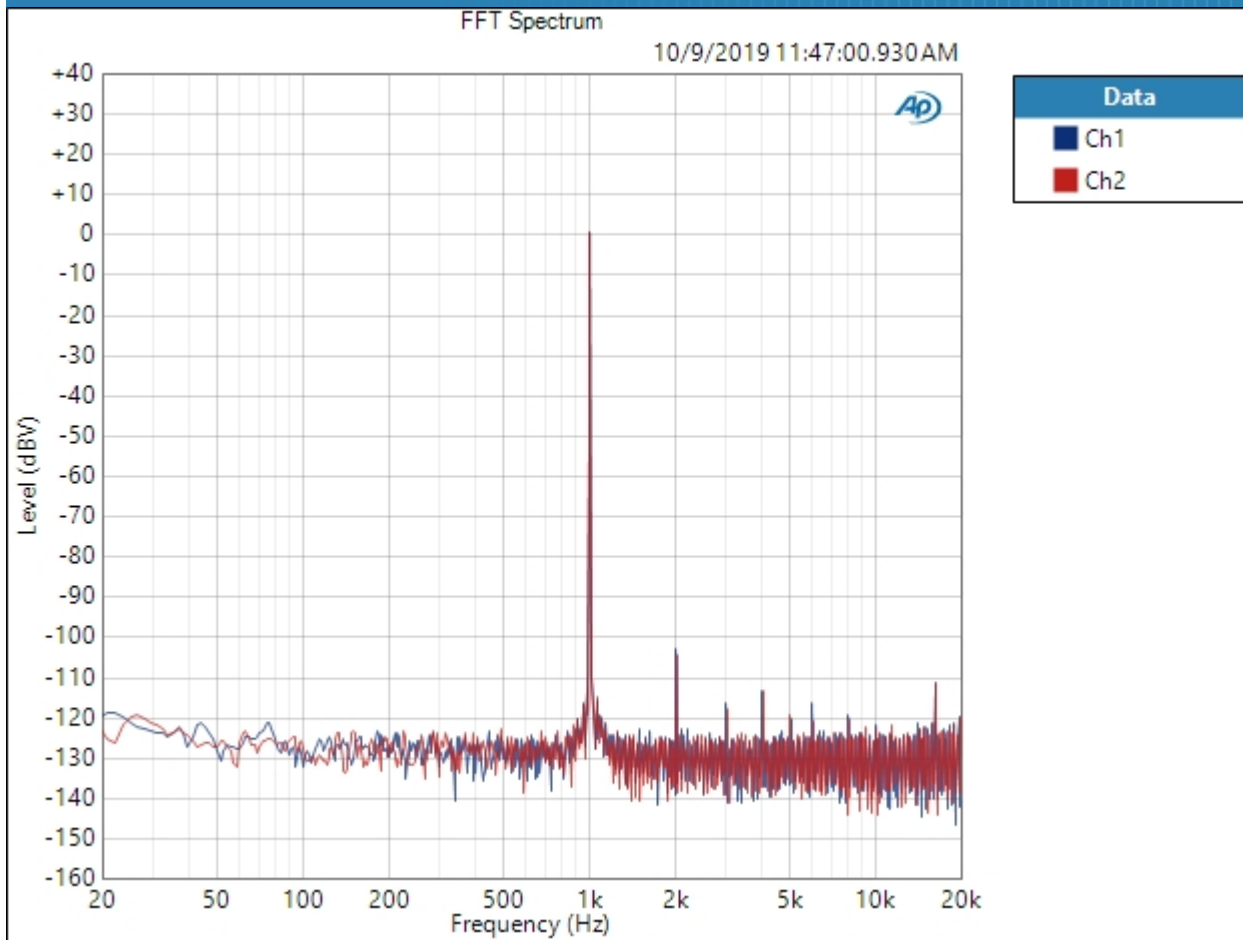
DC Level (10/9/2019 11:46:57.286 AM)

Ch1 -3.86 mV
Ch2 -4.07 mV

High Gain, 32 Ohm : Signal Analyzer

Waveform: Sine
Generator Level: -21.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 10/9/2019 11:47:00 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 (10/9/2019 11:47:00.930 AM)

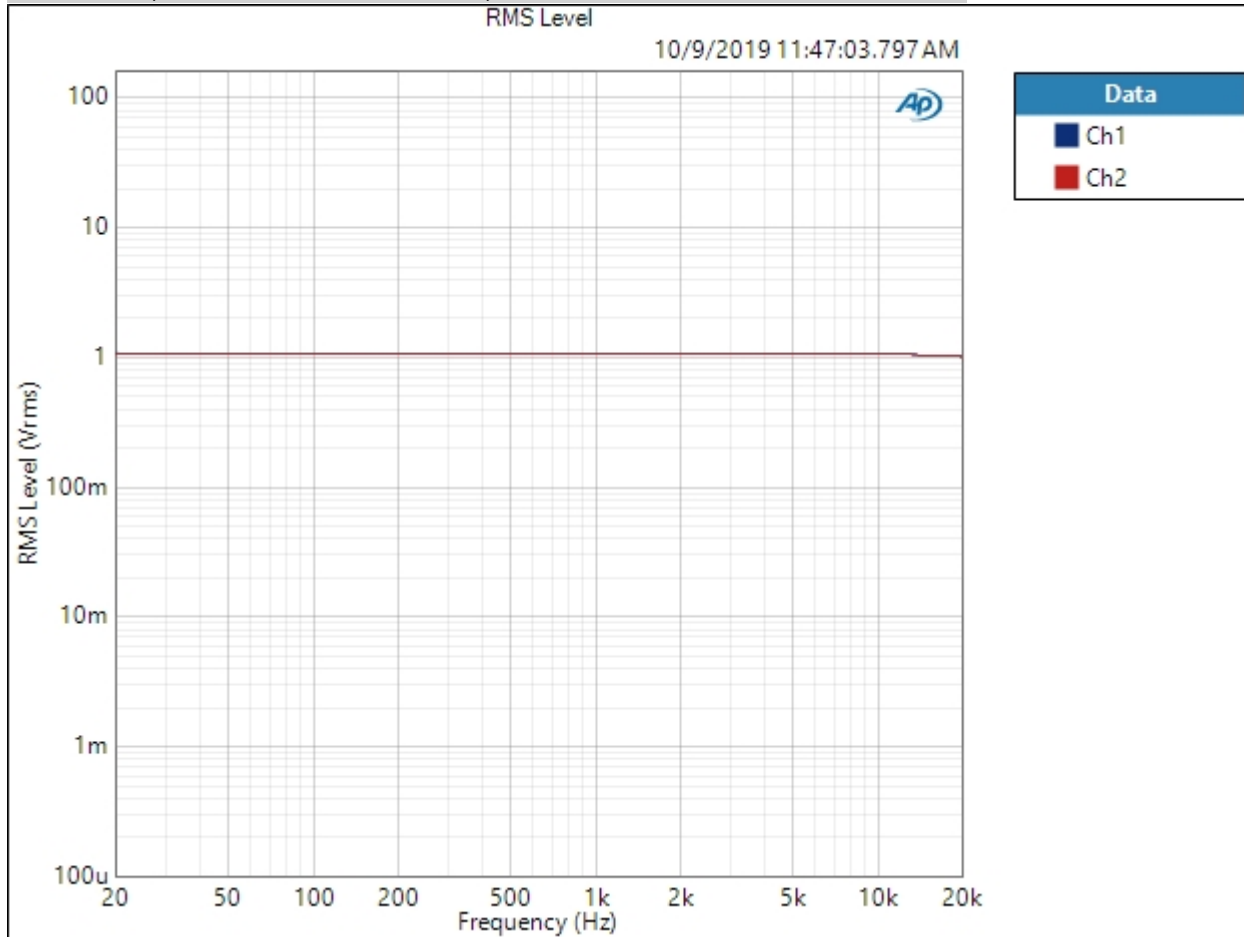


Result:  PASSED

High Gain, 32 Ohm : Frequency Response

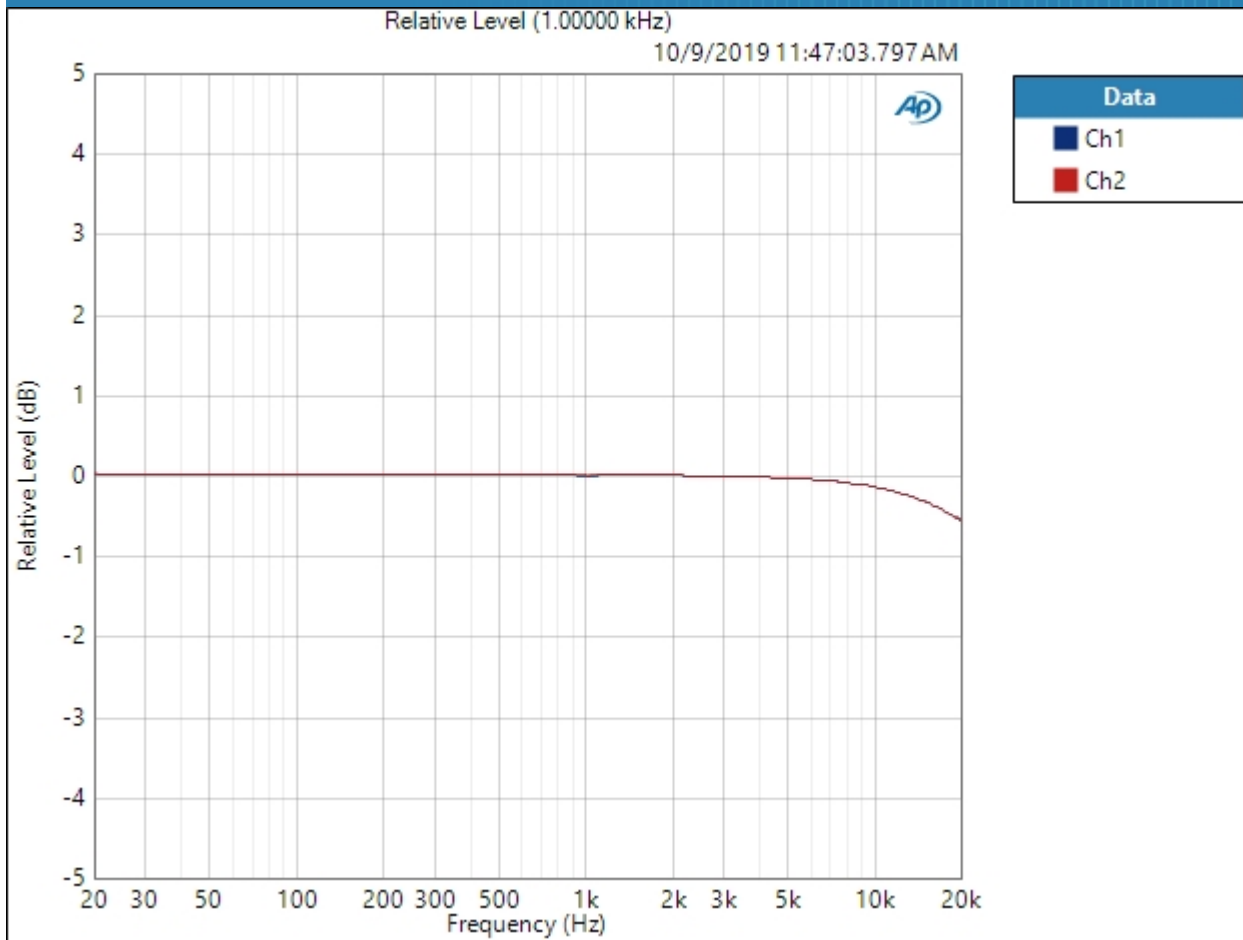
Start Frequency: 20.0000 Hz
 Stop Frequency: 20.0000 kHz
 Generator Level: -21.000 dBFS
 DC Offset: 0.000 D
 EQ: None
 Pre-Sweep: 100.0 ms
 Sweep: 350.0 ms
 Extend Acquisition By: 500.0 ms
 Secondary Source: None
 Measured 1 10/9/2019 11:47:03 AM

RMS Level (10/9/2019 11:47:03.797 AM)



Result: PASSED

Relative Level (1.00000 kHz) (10/9/2019 11:47:03.797 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) (10/9/2019 11:47:03.797 AM)

Ch1 ± 0.303 dB

Ch2 ± 0.303 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

High Gain, 32 Ohm : Signal to Noise Ratio

Waveform: Sine

Generator Level: -15.000 dBFS

DC Offset: 0.000 D

Frequency: 1.00000 kHz

Low-pass Filter: 20 kHz

Weighting Filter: Signal Path

High-pass Filter: 20 Hz

Signal to Noise Ratio (10/9/2019 11:47:05.670 AM)

Ch1 99.054 dB

Ch2 98.611 dB

High Gain, 32 Ohm : THD+N

Waveform: Sine
 Generator Level: -21.000 dBFS
 DC Offset: 0.000 D
 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 (10/9/2019 11:47:07.679 AM)

Ch1 0.002489 %
 Ch2 0.002453 %

THD Ratio (10/9/2019 11:47:07.679 AM)

Ch1 0.000954 %
 Ch2 0.000731 %

Noise Ratio (10/9/2019 11:47:07.679 AM)

Ch1 0.002309 %
 Ch2 0.002324 %

Distortion Product Ratio (10/9/2019 11:47:07.679 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	-102.10	-115.08	-112.20	-117.80	-117.73	-120.63	-117.60	-117.29	-121.14
Ch2	-0.00	-105.15	-118.04	-114.46	-121.44	-117.02	-121.05	-118.74	-120.44	-121.49

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB

High Gain, 32 Ohm : IMD Level Sweep (CCIF)

IMD Type: CCIF

Waveform: IMD

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

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

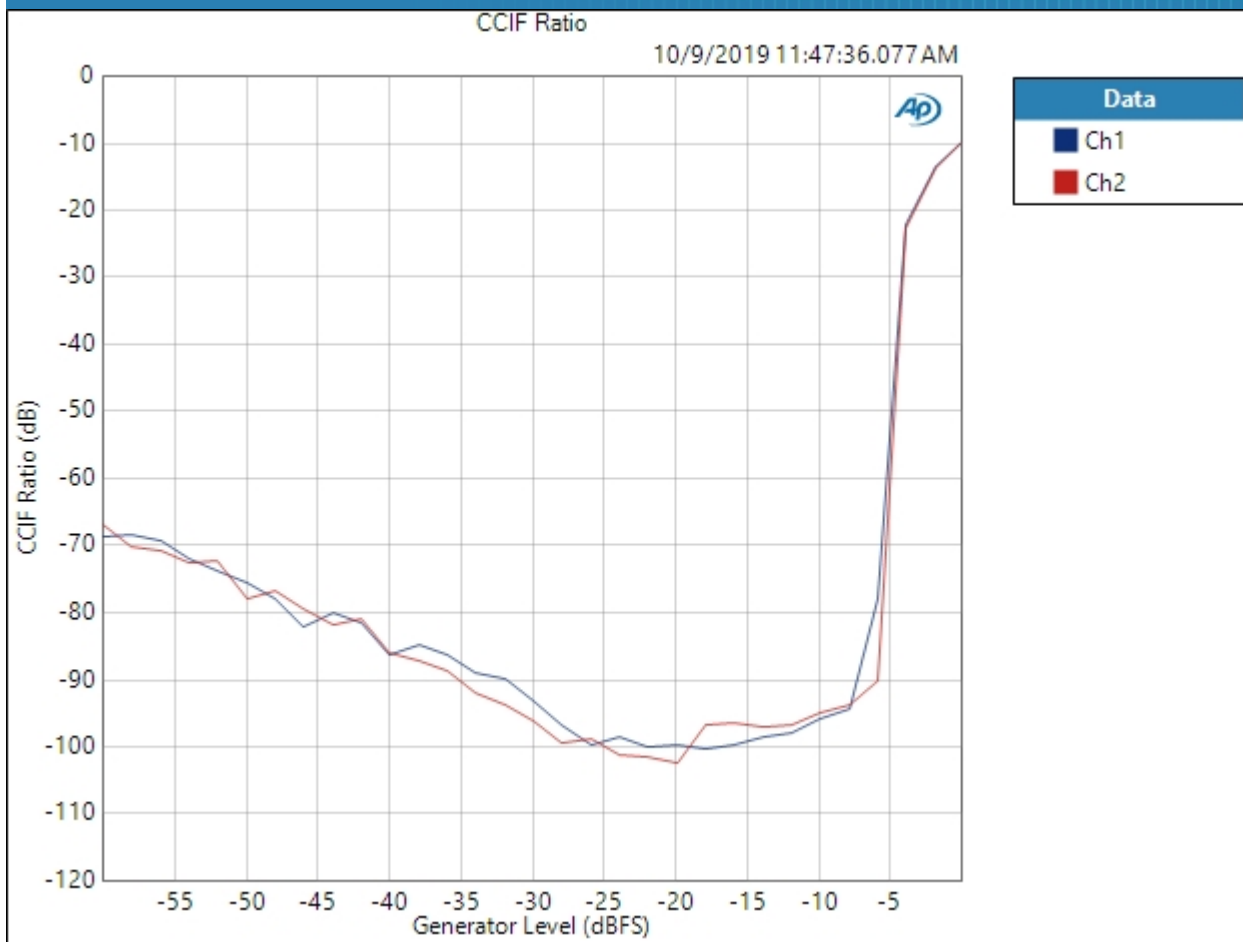
Number of Points: 31

Step Size: +2.000 dBFS

Mode: d2+d3

Measured 1 10/9/2019 11:47:36 AM

CCIF Ratio (10/9/2019 11:47:36.077 AM)

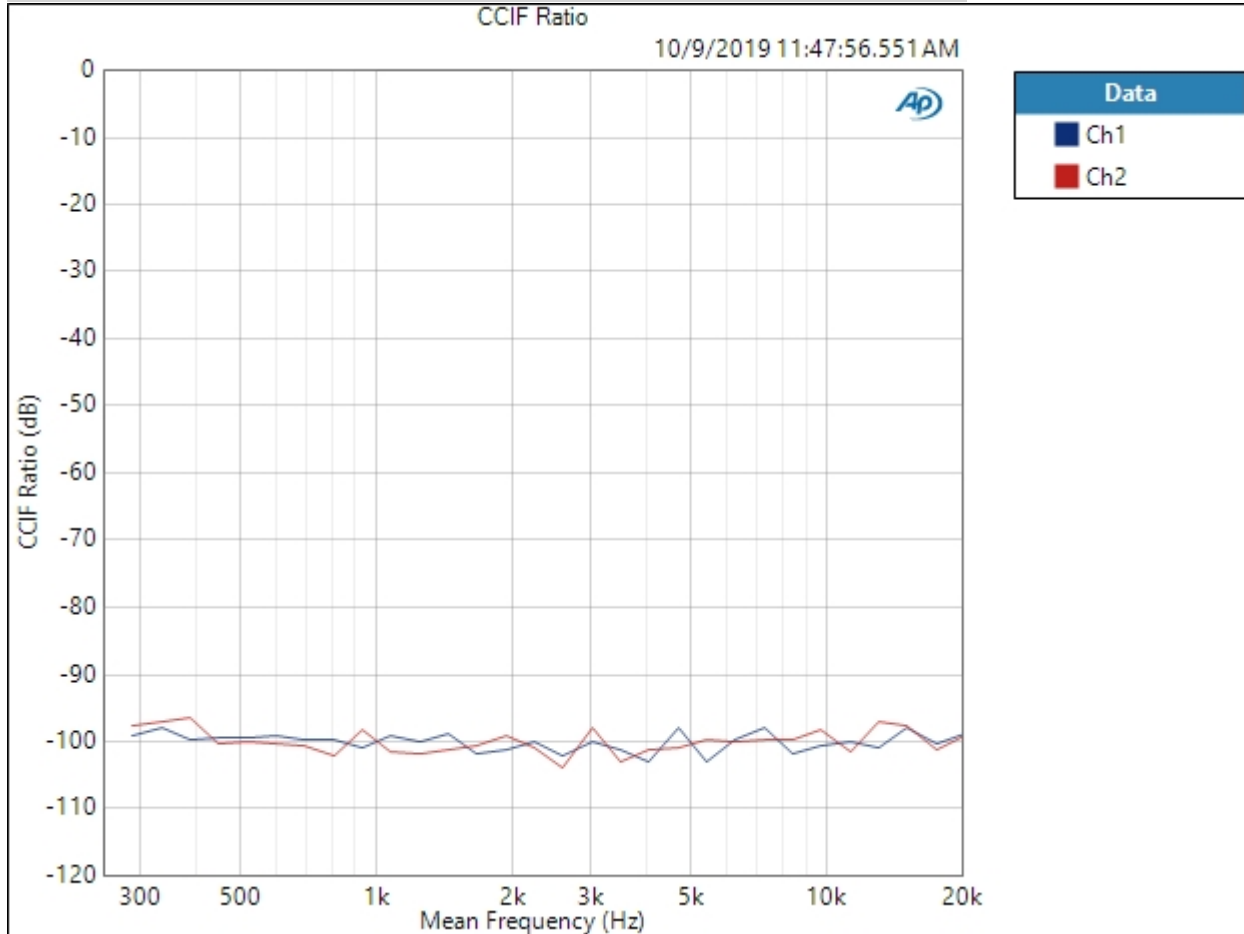


Result: PASSED

High Gain, 32 Ohm : IMD Frequency Sweep (CCIF)

Generator Level: -21.000 dBFS
 DC Offset: 0.000 D
 Sweep Frequency: Mean Frequency
 Mean Frequency: 12.5000 kHz
 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 10/9/2019 11:47:56 AM

CCIF Ratio (10/9/2019 11:47:56.551 AM)



Result:  PASSED

High Gain, 32 Ohm : Crosstalk, One Channel Undriven

Waveform: Sine
Generator Level: -21.000 dBFS
DC Offset: 0.000 D
Frequency: 10.0000 kHz

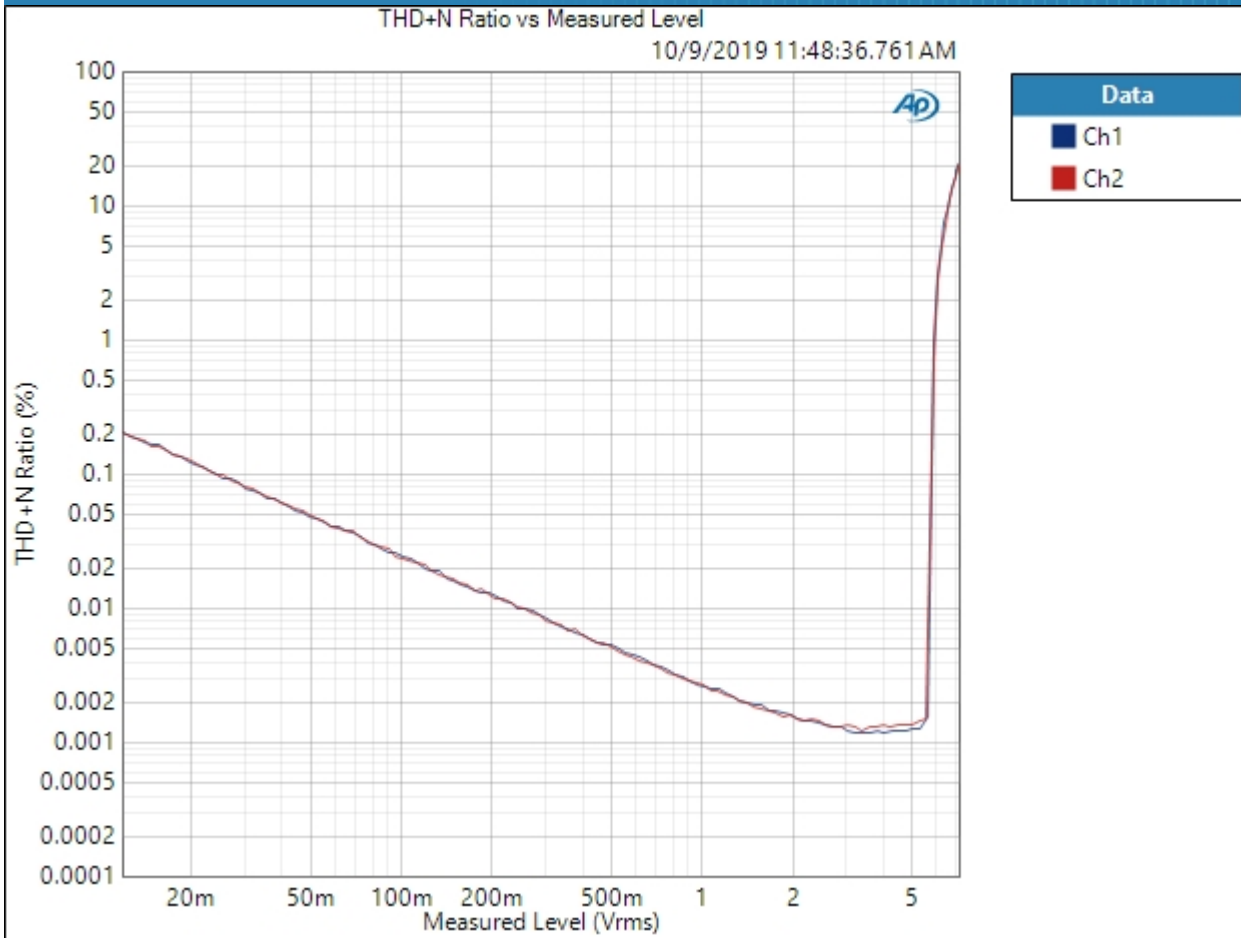
Crosstalk (10/9/2019 11:47:57.779 AM)

Ch1 72.868 dB
Ch2 73.372 dB

High Gain, 32 Ohm : Stepped Level Sweep

Waveform: Sine
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Start Level: -60.000 dBFS
Stop Level: -0.000 dBFS
Step Type: Linear
Number of Points: 127
Step Size: +0.476 dBFS
Offset: 0.000 D
Low-pass Filter: 20 kHz
Weighting Filter: Signal Path
High-pass Filter: 20 Hz
Notch Tuning Mode: Generator Frequency
Measured 1 10/9/2019 11:48:36 AM

THD+N Ratio vs Measured Level (10/9/2019 11:48:36.761 AM)



Result: PASSED

Line Out : Signal Path Setup

Output Connector:	ASIO
Output Sample Rate:	48.0000 kHz
Output EQ:	None
Input Connector:	Analog Unbalanced
Channels:	2
Termination:	100 kohm
High Performance Sine Analyzer:	Enabled
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
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

Line Out : Level and Gain

Waveform: Sine
Generator Level: -5.500 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz

RMS Level (10/9/2019 12:16:12.099 PM)

Ch1 1.023 Vrms
Ch2 1.020 Vrms

Line Out : 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

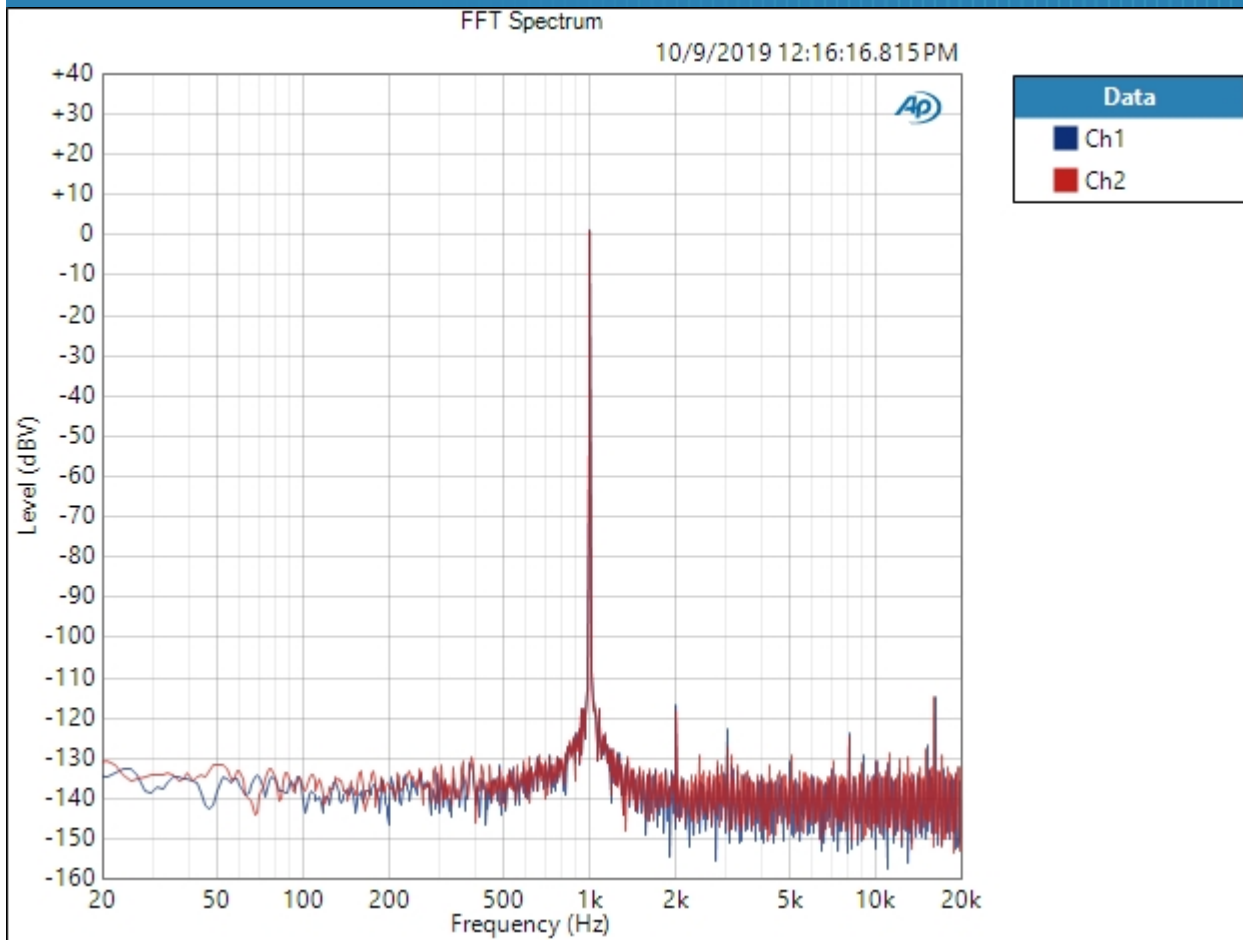
DC Level (10/9/2019 12:16:13.148 PM)

Ch1 -10.56 mV
Ch2 -8.810 mV

Line Out : Signal Analyzer

Waveform: Sine
Generator Level: -4.500 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 10/9/2019 12:16:16 PM
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 (10/9/2019 12:16:16.815 PM)

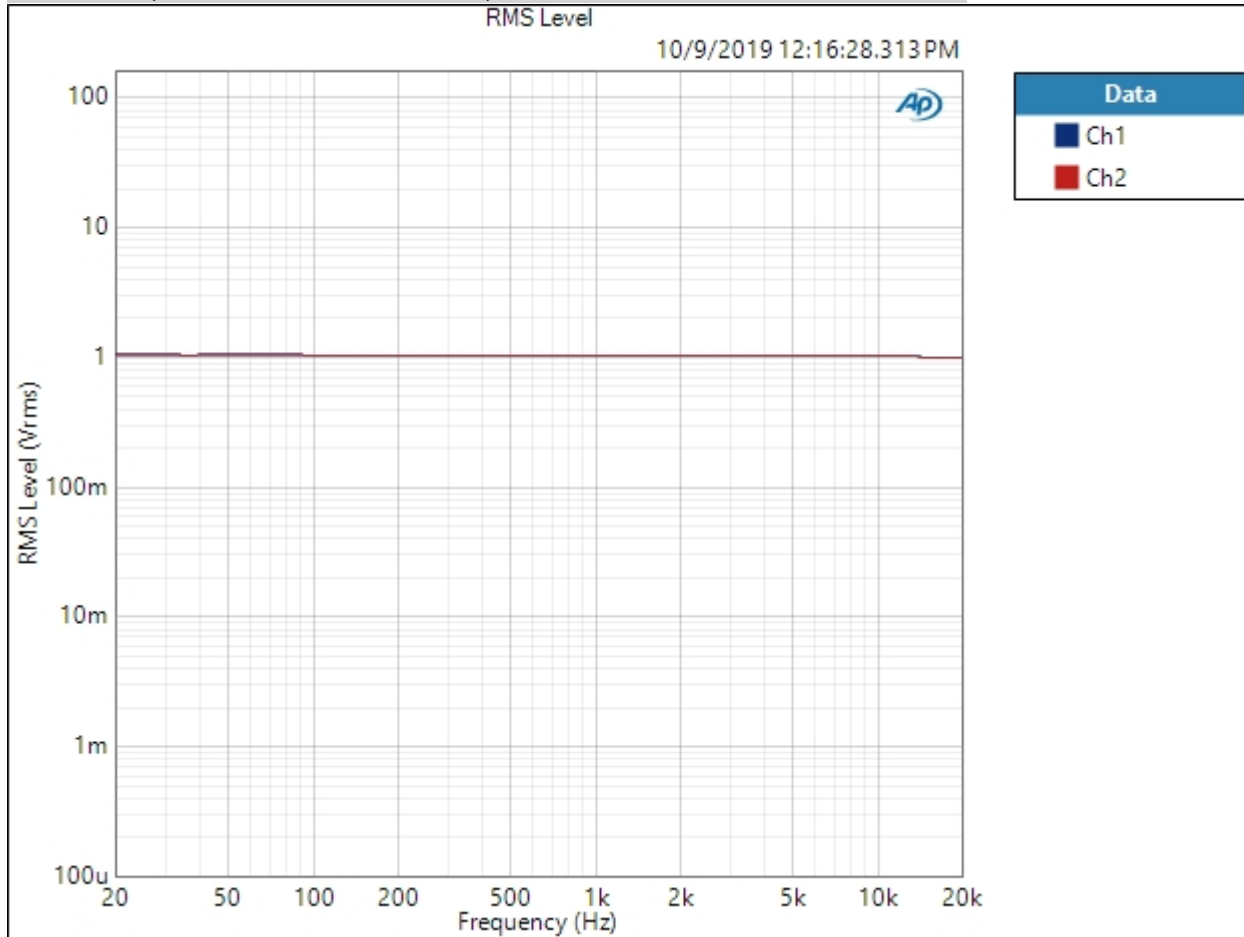


Result:  PASSED

Line Out : Frequency Response

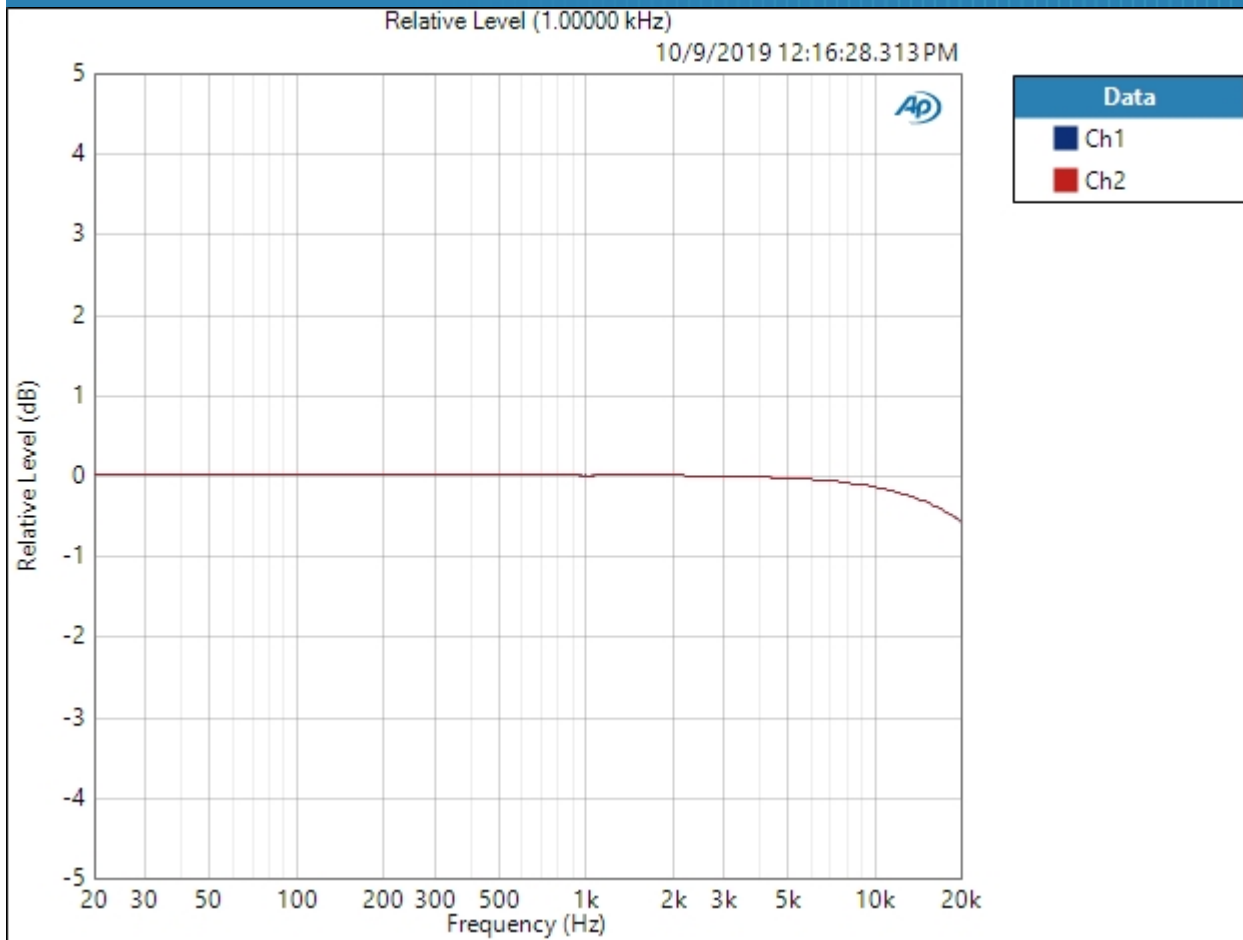
Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: -5.500 dBFS
DC Offset: 0.000 D
EQ: None
Pre-Sweep: 200.0 ms
Sweep: 2.000 s
Extend Acquisition By: 3.000 s
Secondary Source: None
Measured 1 10/9/2019 12:16:28 PM

RMS Level (10/9/2019 12:16:28.313 PM)



Result: PASSED

Relative Level (1.00000 kHz) (10/9/2019 12:16:28.313 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) (10/9/2019 12:16:28.313 PM)

Ch1 ± 0.302 dB

Ch2 ± 0.301 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Line Out : Signal to Noise Ratio

Waveform: Sine
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Low-pass Filter: 20 kHz
Weighting Filter: Signal Path
High-pass Filter: 20 Hz

Signal to Noise Ratio (10/9/2019 12:16:30.238 PM)

Ch1 111.870 dB
Ch2 111.630 dB

Line Out : THD+N

Waveform: Sine
 Generator Level: -5.500 dBFS
 DC Offset: 0.000 D
 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 (10/9/2019 12:16:34.441 PM)

Ch1 0.000725 %
 Ch2 0.000829 %

THD Ratio (10/9/2019 12:16:34.441 PM)

Ch1 0.000238 %
 Ch2 0.000267 %

Noise Ratio (10/9/2019 12:16:34.441 PM)

Ch1 0.000687 %
 Ch2 0.000798 %

Distortion Product Ratio (10/9/2019 12:16:34.441 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	-118.74	-126.02	-131.14	-134.95	-129.05	-133.43	-126.04	-134.20	-131.80
Ch2	-0.00	-120.68	-119.31	-130.50	-131.59	-127.85	-127.91	-126.92	-128.06	-128.52

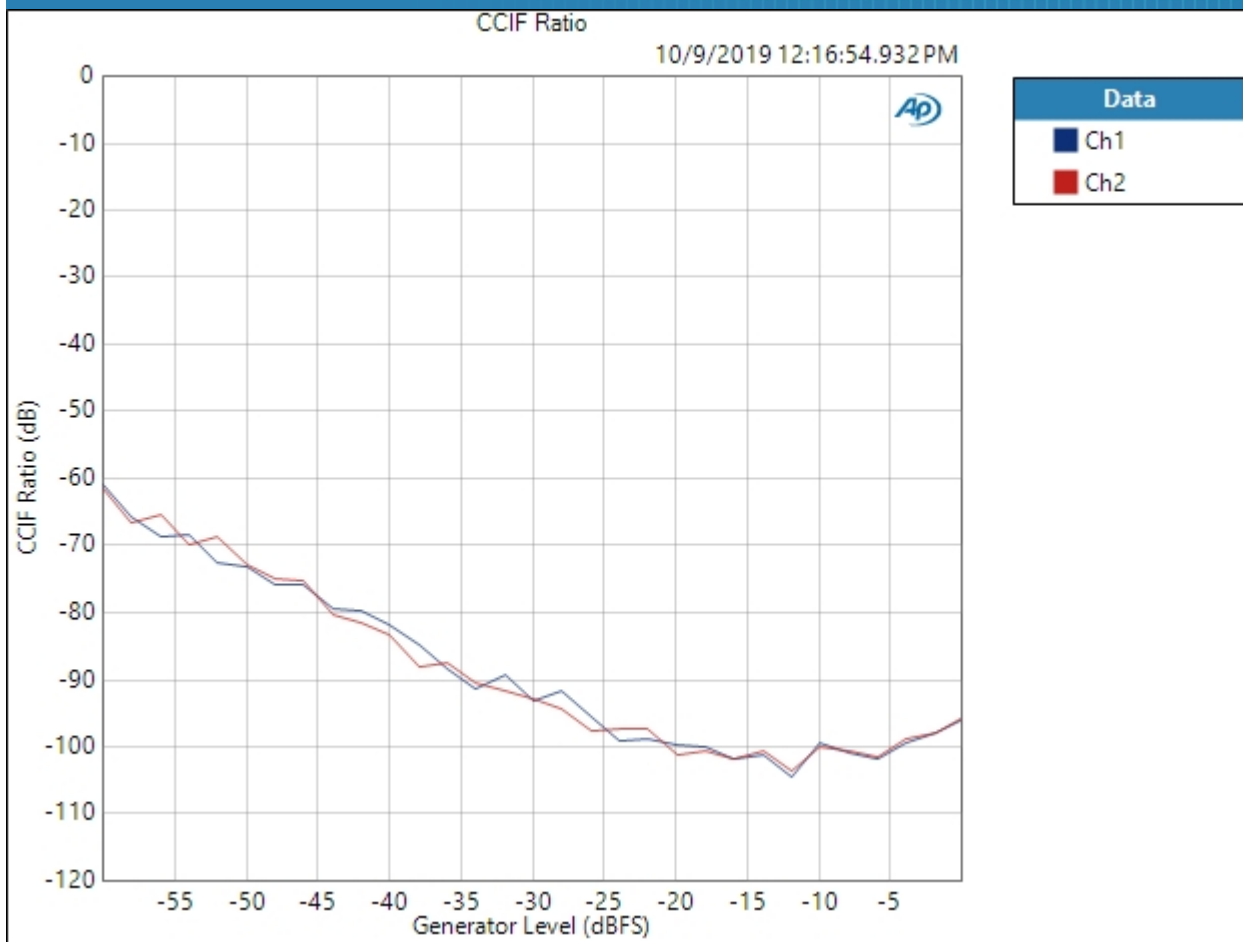
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB

Line Out : IMD Level Sweep (CCIF)

IMD Type: CCIF
Waveform: IMD
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
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 10/9/2019 12:16:54 PM

CCIF Ratio (10/9/2019 12:16:54.932 PM)



Result: PASSED

Schiit DAC APx555 Standard Test Suite: Hel



Line Out : IMD Frequency Sweep (CCIF)

Generator Level: -5.500 dBFS

DC Offset: 0.000 D

Sweep Frequency: Mean Frequency

Mean Frequency: 12.5000 kHz

Diff Frequency: 80.0000 Hz

IMD Split: False

Start Frequency: 20.0000 kHz

Stop Frequency: 250.000 Hz

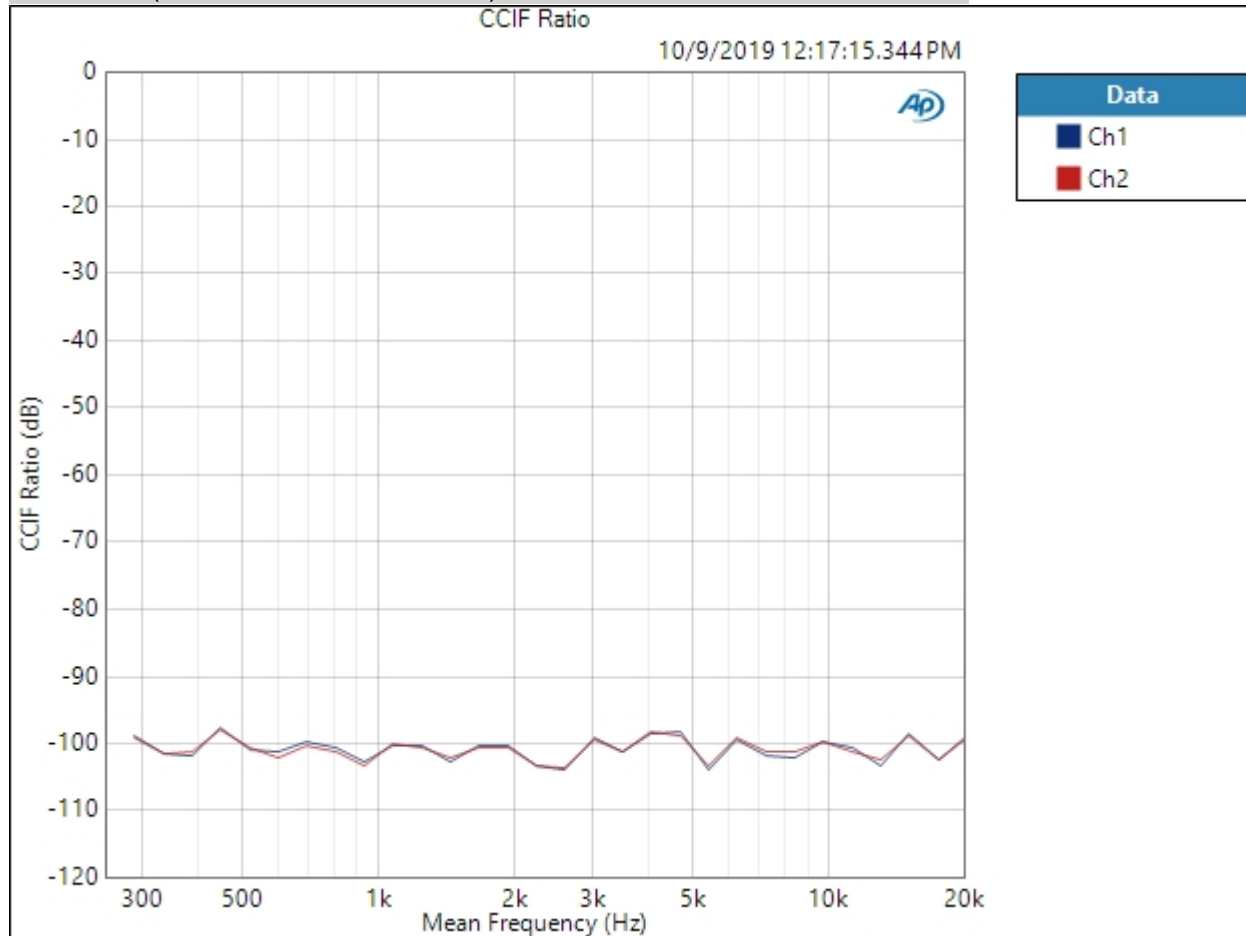
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 10/9/2019 12:17:15 PM

CCIF Ratio (10/9/2019 12:17:15.344 PM)



10/9/2019 12:20 PM

Result:  PASSED

Line Out : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: -14.000 dBFS

DC Offset: 0.000 D

Frequency: 10.0000 kHz

Crosstalk (10/9/2019 12:17:16.946 PM)

Ch1 79.188 dB

Ch2 80.751 dB

Line Out : Crosstalk Sweep, One Channel Driven

Generator Level: -14.000 dBFS

DC Offset: 0.000 D

Start Frequency: 20.0000 kHz

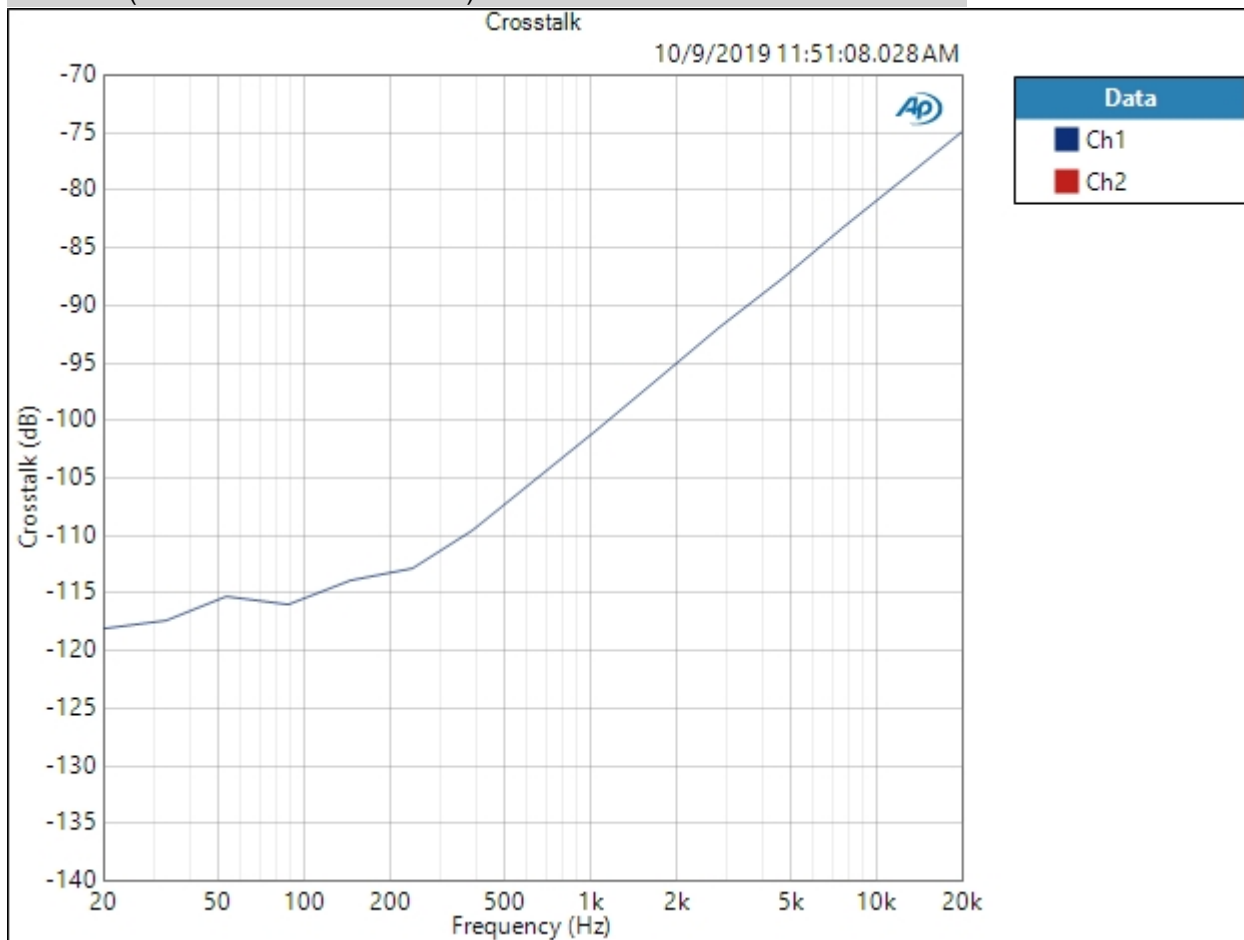
Stop Frequency: 20.0000 Hz

Step Type: Logarithmic

Number of Points: 15

Measured 1 10/9/2019 11:51:08 AM

Crosstalk (10/9/2019 11:51:08.028 AM)



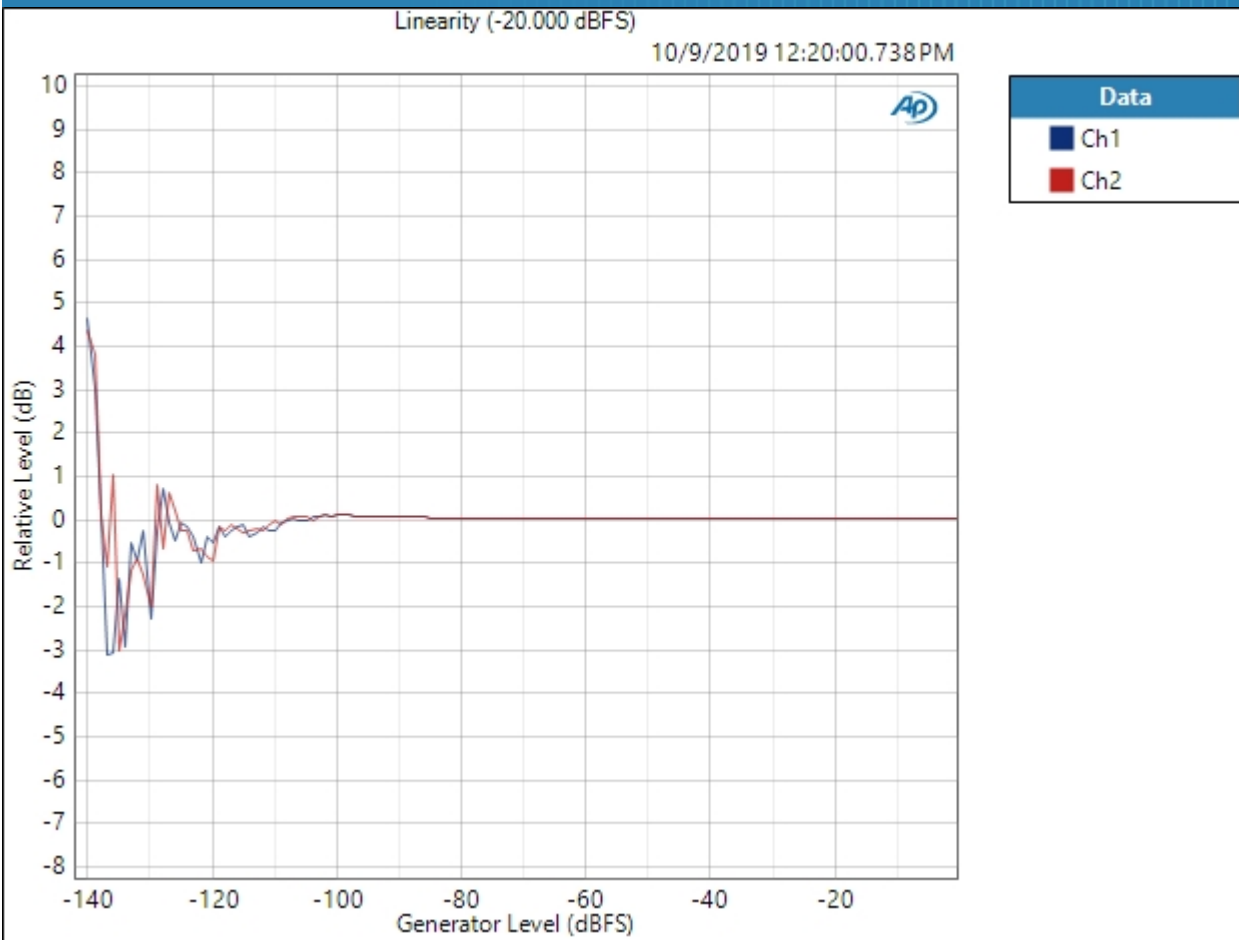
Crosstalk Parameters

Source: Ch1

Result: PASSED

Line Out : Bandpass Level Sweep

Waveform:	Sine
Generator Level:	-20.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Start Level:	-140.000 dBFS
Stop Level:	-0.000 dBFS
Step Type:	Linear
Number of Points:	141
Step Size:	+1.000 dBFS
Offset:	0.000 D
Selectivity:	Window width
Bandpass Tuning Mode:	Generator Frequency
Measured 1	10/9/2019 12:20:00 PM
Linearity (-20.000 dBFS) (10/9/2019 12:20:00.738 PM)	



Linearity (-20.000 dBFS) Parameters

Mode: Normalized at Reference

Relative Level: -20.000 dBFS

Result: PASSED