

Schiit APx Report for Mani 2



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@schitt.com so we can have a look.

Summary

Decca

Signal Path Setup	✓ PASSED
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

MM

Signal Path Setup	✓ PASSED
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 Output MM-High Output MC

Signal Path Setup	✓ PASSED
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

MC

Signal Path Setup	✓ PASSED
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

RIAA and Rumble Filter

Signal Path Setup	✓ PASSED
Level and Gain	✓ PASSED
RIAA Accuracy	✓ PASSED
Rumble 1 Pole	✓ PASSED
Rumble 2 Pole	✓ PASSED

Sequence Result:

Sequence Result:	✓ PASSED
------------------	----------

APx Instrument

Instrument ID:	100546525
Calibration Date:	2/10/2021
APx Version:	6.0.1.592.148673

Decca : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Source Impedance:	20 ohm
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
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.

Decca : Verify Connections

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

Gain (9/15/2021 11:25:10.350 AM)

Ch1 34.615 dB

Ch2 34.610 dB

Decca : Level and Gain

Waveform: Sine
Generator Level: 38.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Low-pass Filter: Signal Path

RMS Level (9/15/2021 11:25:12.018 AM)

Ch1 2.044 Vrms

Ch2 2.043 Vrms

Decca : 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 (9/15/2021 11:25:13.284 AM)

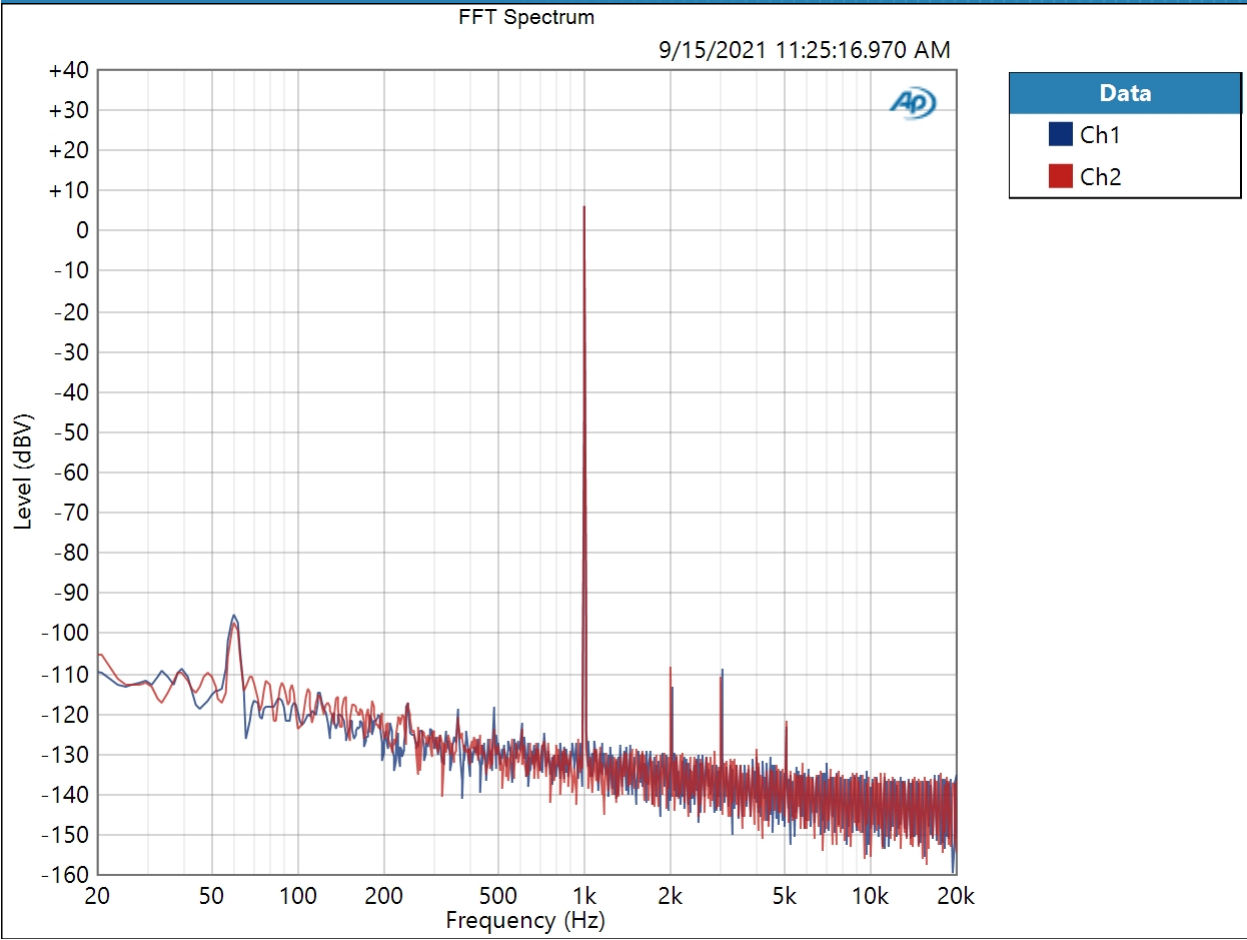
Ch1 1.413 mV

Ch2 2.532 mV

Decca : Signal Analyzer

Waveform: Sine
Generator Level: 38.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 9/15/2021 11:25:16 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 (9/15/2021 11:25:16.970 AM)



Result: PASSED

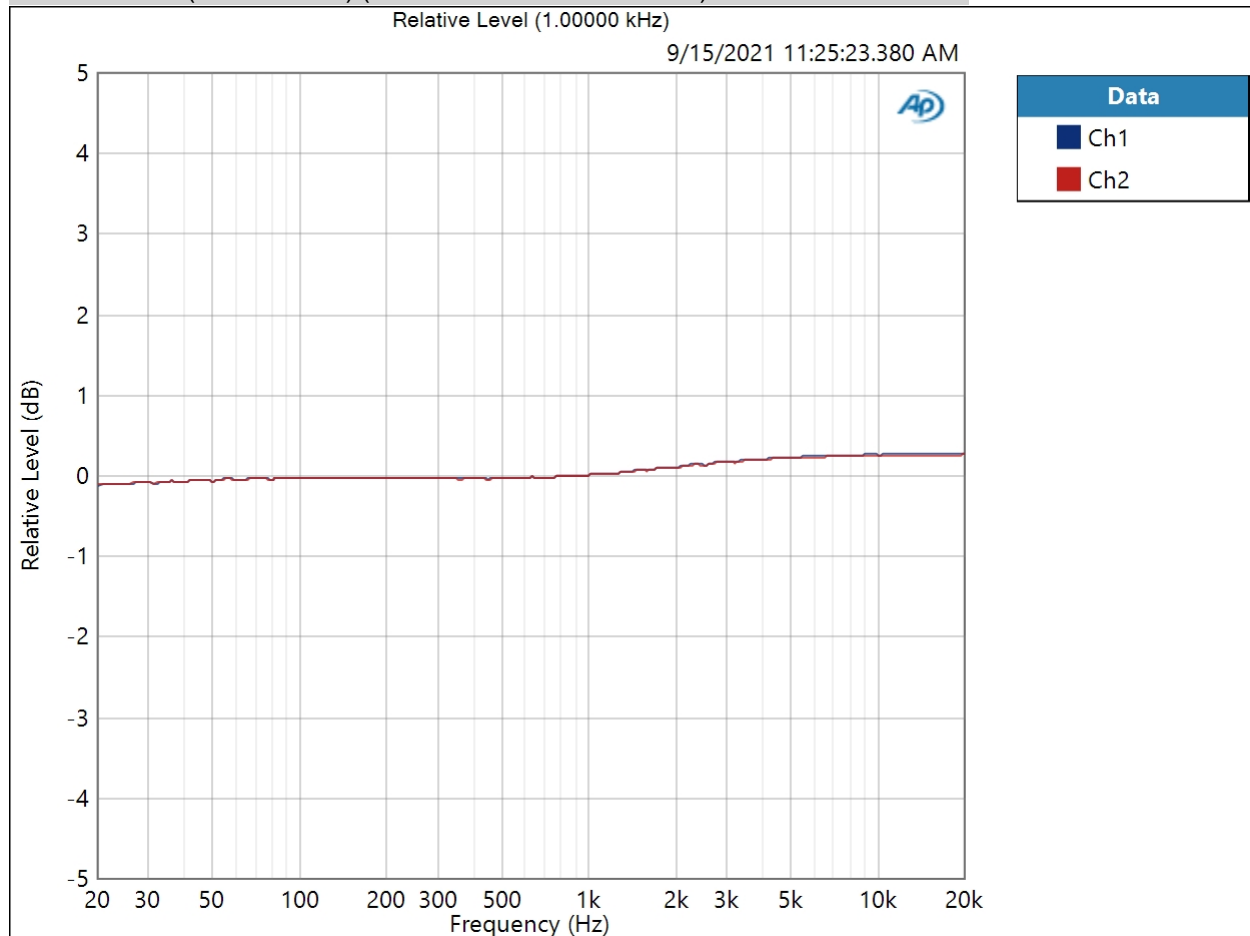
Schiit APx Report for Mani 2



Decca : Frequency Response

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: 38.00 mVrms
DC Offset: 0.000 V
EQ: Relative
Pre-Sweep: 100.0 ms
Sweep: 350.0 ms
Extend Acquisition By: 2.000 s
Secondary Source: None
Measured 1 9/15/2021 11:25:23 AM

Relative Level (1.00000 kHz) (9/15/2021 11:25:23.380 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Schiit APx Report for Mani 2



Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/15/2021 11:25:23.380 AM)

Ch1 ± 0.196 dB

Ch2 ± 0.185 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Decca : Signal to Noise Ratio

Waveform: Sine

Generator Level: 38.00 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 (9/15/2021 11:25:25.458 AM)

Ch1 108.337 dB

Ch2 108.107 dB

Schiit APx Report for Mani 2



Decca : THD+N

Waveform: Sine
 Generator Level: 38.00 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 (9/15/2021 11:25:27.424 AM)

Ch1 -107.055 dB

Ch2 -106.806 dB

THD Ratio (9/15/2021 11:25:27.424 AM)

Ch1 0.000245 %

Ch2 0.000267 %

Noise Ratio (9/15/2021 11:25:27.424 AM)

Ch1 0.000363 %

Ch2 0.000368 %

Distortion Product Ratio (9/15/2021 11:25:27.424 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	-117.48	-114.05	-135.46	-127.66	-138.42	-138.41	-138.72	-144.11	-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	-113.63	-116.36	-132.76	-125.53	-133.57	-137.93	-138.24	-137.32	-144.15

Distortion Product Ratio Parameters

Frequency Unit: Hz

Ratio Unit: dB

Channel: Ch1

Schiit APx Report for Mani 2



Decca : IMD Level Sweep (CCIF)

IMD Type: CCIF

Mean Frequency: 12.5000 kHz

Diff Frequency: 80.0000 Hz

IMD Split: False

Start Level: 1.000 mVrms

Stop Level: 500.0 mVrms

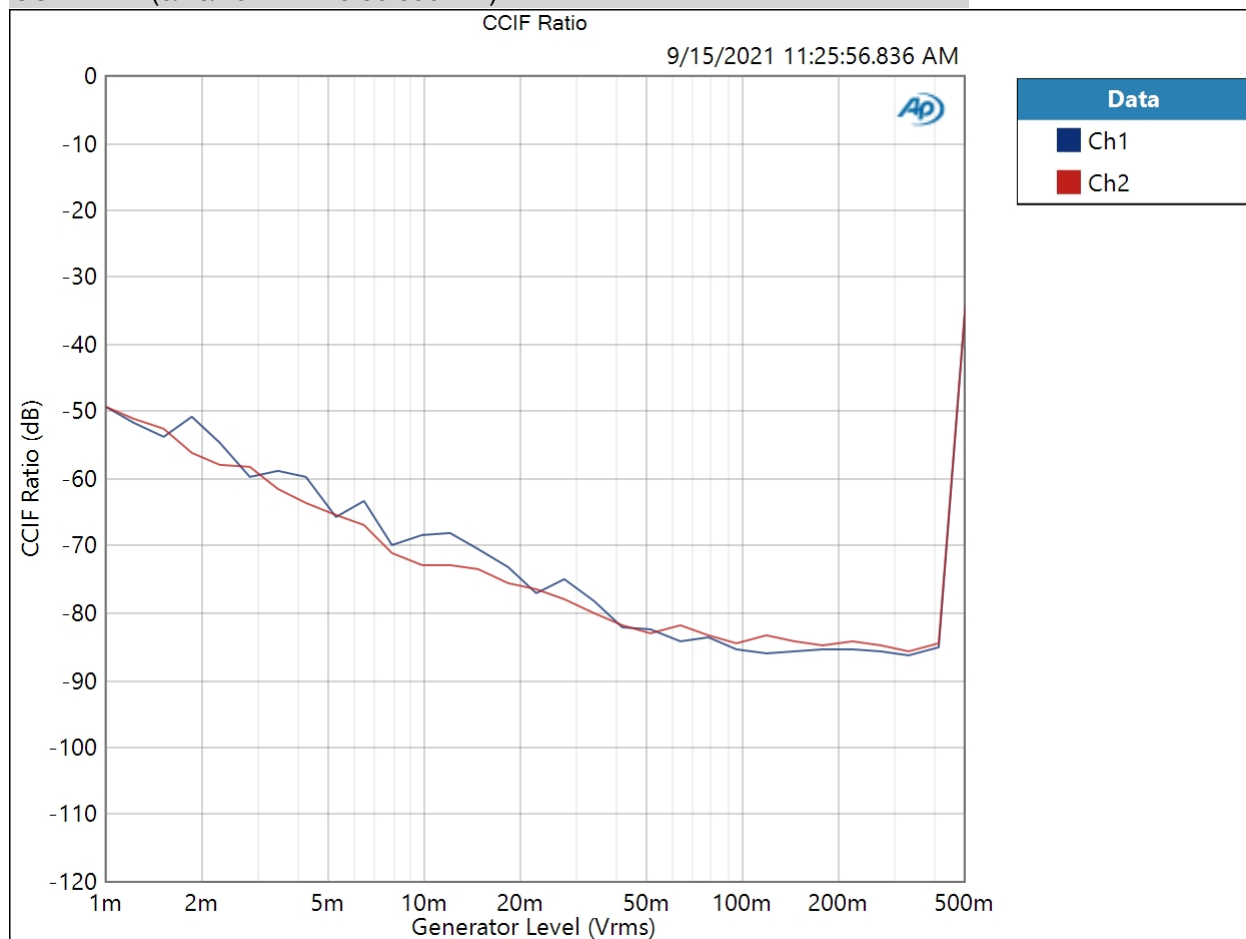
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 9/15/2021 11:25:56 AM

CCIF Ratio (9/15/2021 11:25:56.836 AM)



Result: PASSED

9/15/2021 11:35 AM

Page 10 of 62

Schiit APx Report for Mani 2



Decca : IMD Frequency Sweep (CCIF)

Generator Level: 38.00 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

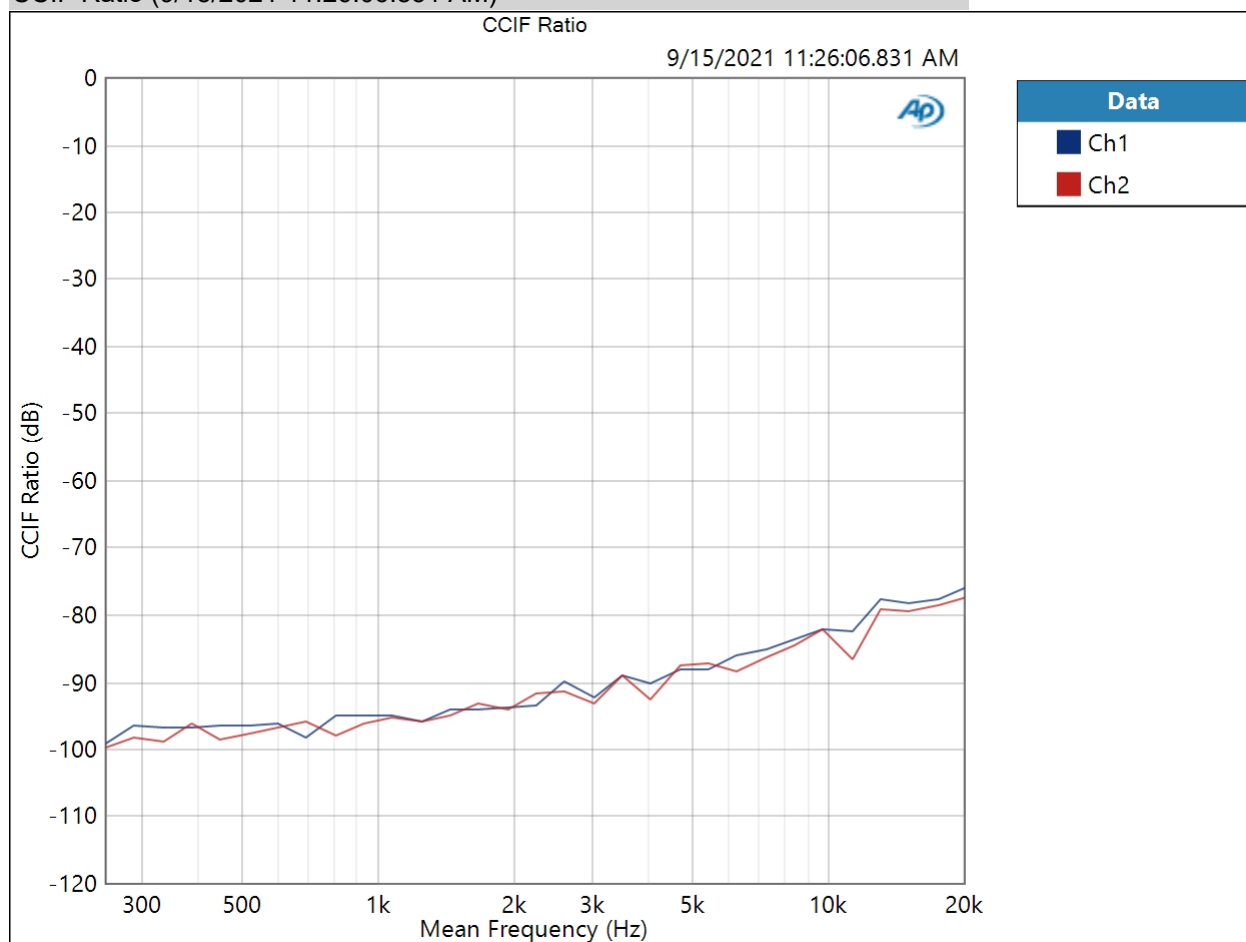
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 9/15/2021 11:26:06 AM

CCIF Ratio (9/15/2021 11:26:06.831 AM)



Result:  PASSED

Decca : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: 38.00 mVrms

DC Offset: 0.000 V

Frequency: 10.0000 kHz

Crosstalk (9/15/2021 11:26:10.195 AM)

Ch1 -97.808 dB

Ch2 -94.824 dB

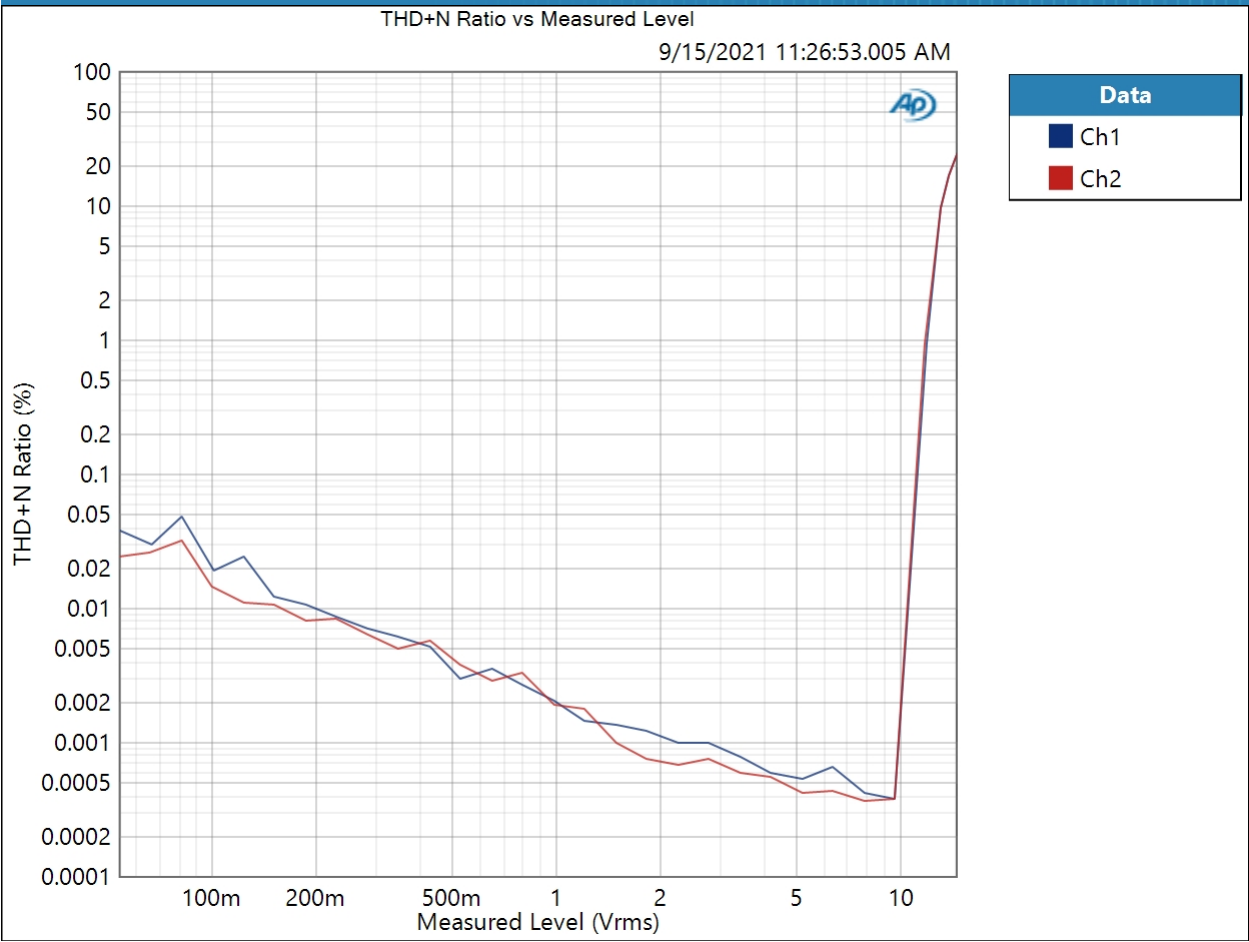
Schiit APx Report for Mani 2



Decca : 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 9/15/2021 11:26:53 AM

THD+N Ratio vs Measured Level (9/15/2021 11:26:53.005 AM)



Result: PASSED

MM : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Source Impedance:	20 ohm
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
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.

MM : Verify Connections

Waveform: Sine
 Generator Level: 12.00 mVrms
 DC Offset: 0.000 V
 Frequency: 1.00000 kHz
 Gain (9/15/2021 11:22:36.345 AM)
 Ch1 44.403 dB
 Ch2 44.401 dB

MM : Level and Gain

Waveform: Sine
 Generator Level: 12.00 mVrms
 DC Offset: 0.000 V
 Frequency: 1.00000 kHz
 Low-pass Filter: Signal Path
 RMS Level (9/15/2021 11:22:38.012 AM)
 Ch1 1.992 Vrms
 Ch2 1.992 Vrms

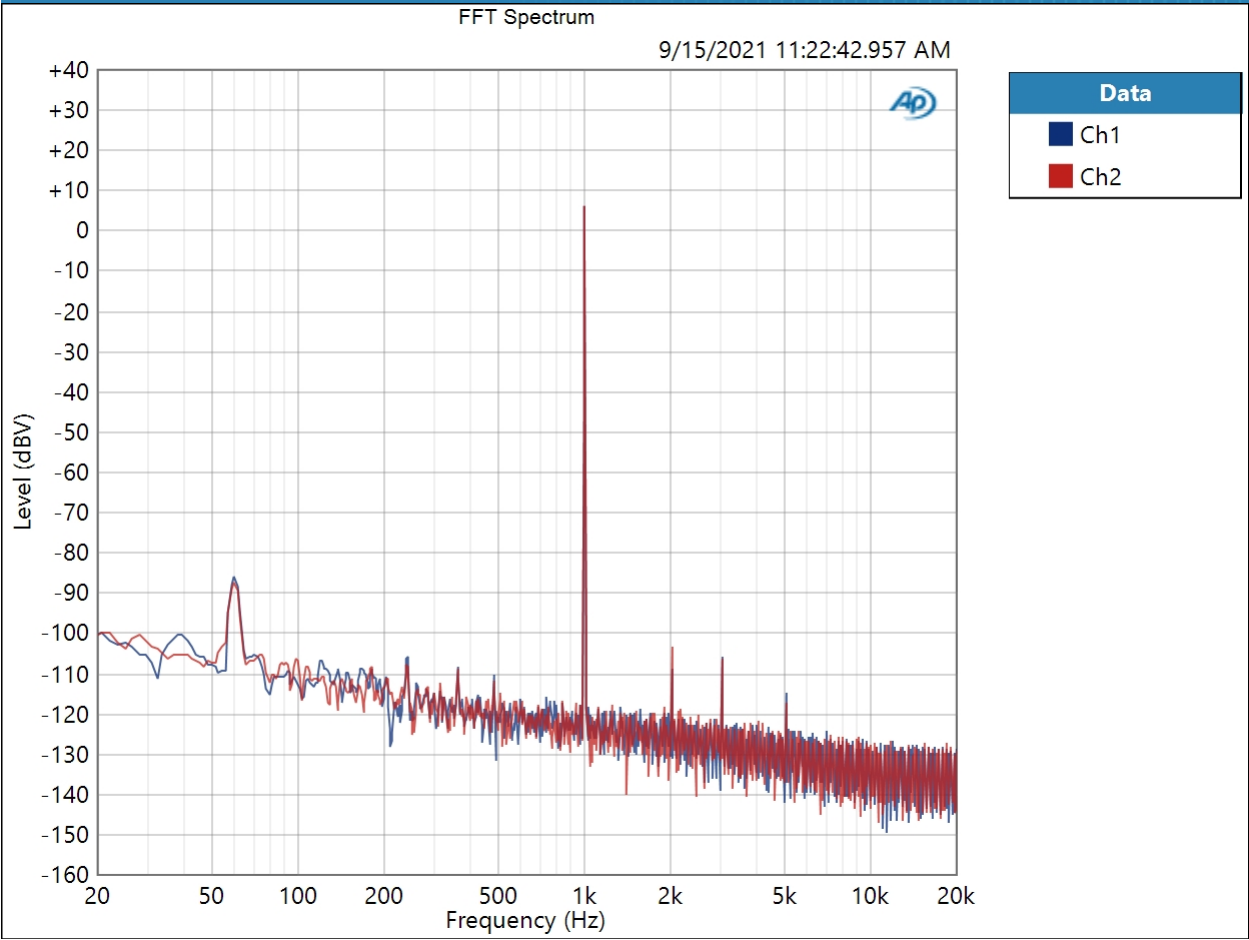
MM : DC Level

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 (9/15/2021 11:22:39.196 AM)
 Ch1 -523.7 uV
 Ch2 -279.1 uV

MM : Signal Analyzer

Waveform: Sine
Generator Level: 12.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 9/15/2021 11:22:42 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 (9/15/2021 11:22:42.957 AM)



Result: PASSED

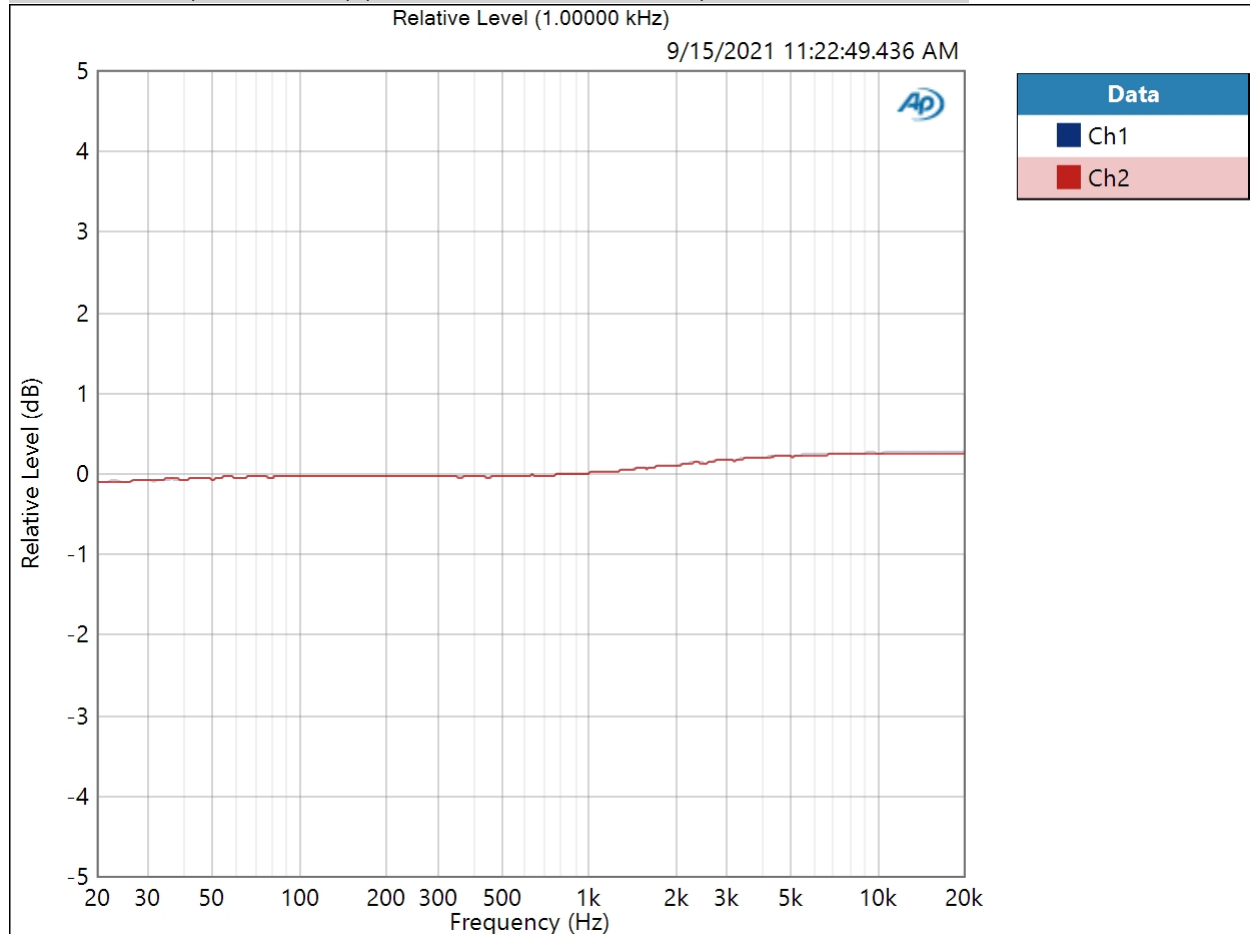
Schiit APx Report for Mani 2



MM : Frequency Response

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: 12.00 mVrms
DC Offset: 0.000 V
EQ: Relative
Pre-Sweep: 100.0 ms
Sweep: 350.0 ms
Extend Acquisition By: 2.000 s
Secondary Source: None
Measured 1 9/15/2021 11:22:49 AM

Relative Level (1.00000 kHz) (9/15/2021 11:22:49.436 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Schiit APx Report for Mani 2



Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/15/2021 11:22:49.436 AM)

Ch1 ± 0.188 dB

Ch2 ± 0.184 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

MM : Signal to Noise Ratio

Waveform: Sine

Generator Level: 12.00 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 (9/15/2021 11:22:51.544 AM)

Ch1 98.478 dB

Ch2 98.433 dB

MM : THD+N

Waveform: Sine
 Generator Level: 12.00 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 (9/15/2021 11:22:53.500 AM)

Ch1 -98.716 dB

Ch2 -98.359 dB

THD Ratio (9/15/2021 11:22:53.500 AM)

Ch1 0.000416 %

Ch2 0.000520 %

Noise Ratio (9/15/2021 11:22:53.500 AM)

Ch1 0.001070 %

Ch2 0.001106 %

Distortion Product Ratio (9/15/2021 11:22:53.500 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	-111.28	-111.33	-121.85	-119.84	-128.83	-128.68	-126.83	-129.64	-133.91
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-107.49	-111.81	-125.81	-118.33	-126.27	-127.15	-130.14	-131.75	-130.84

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

Schiit APx Report for Mani 2



MM : IMD Level Sweep (CCIF)

IMD Type: CCIF

Mean Frequency: 12.5000 kHz

Diff Frequency: 80.0000 Hz

IMD Split: False

Start Level: 1.000 mVrms

Stop Level: 150.0 mVrms

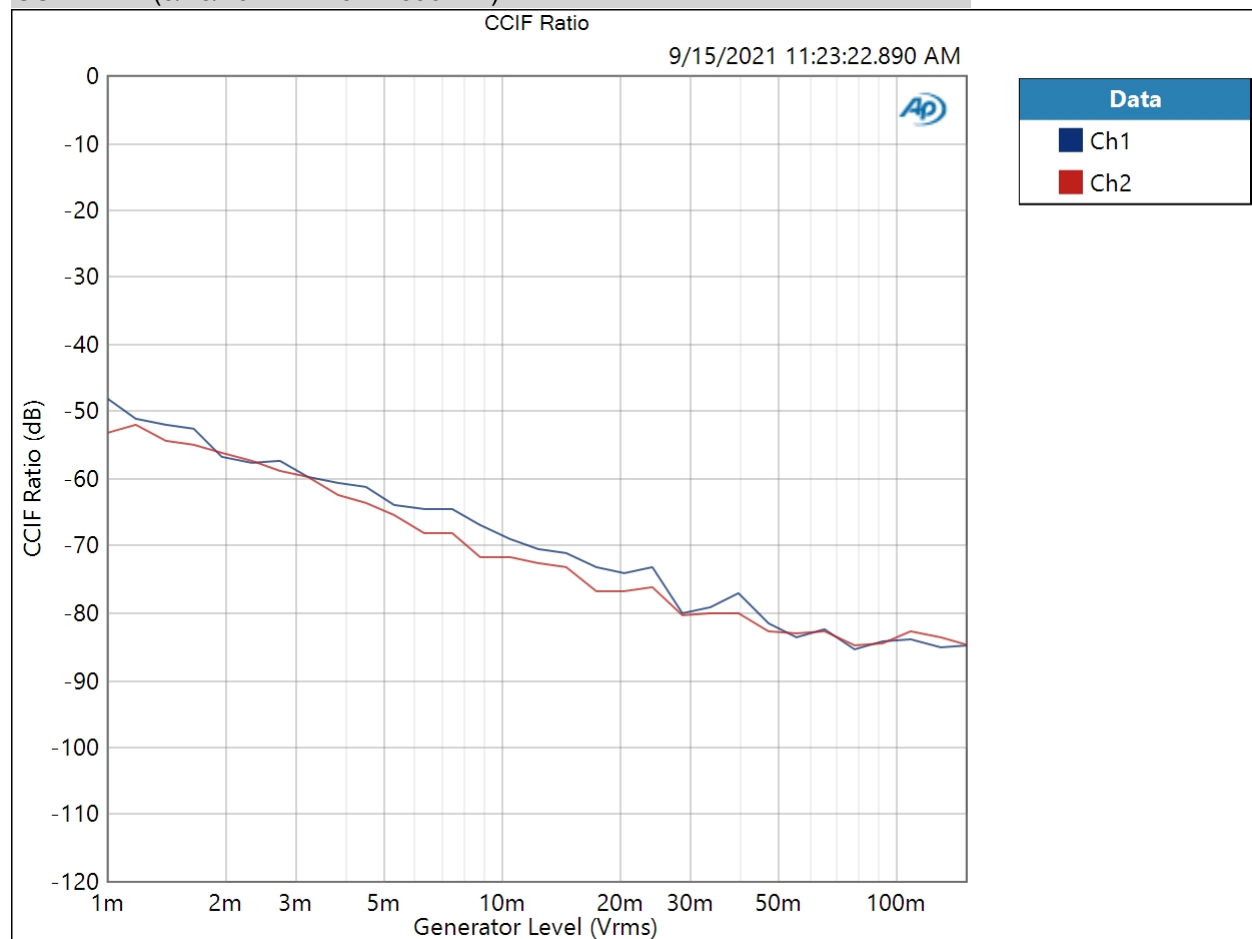
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 9/15/2021 11:23:22 AM

CCIF Ratio (9/15/2021 11:23:22.890 AM)



Result: PASSED

9/15/2021 11:35 AM

Page 23 of 62

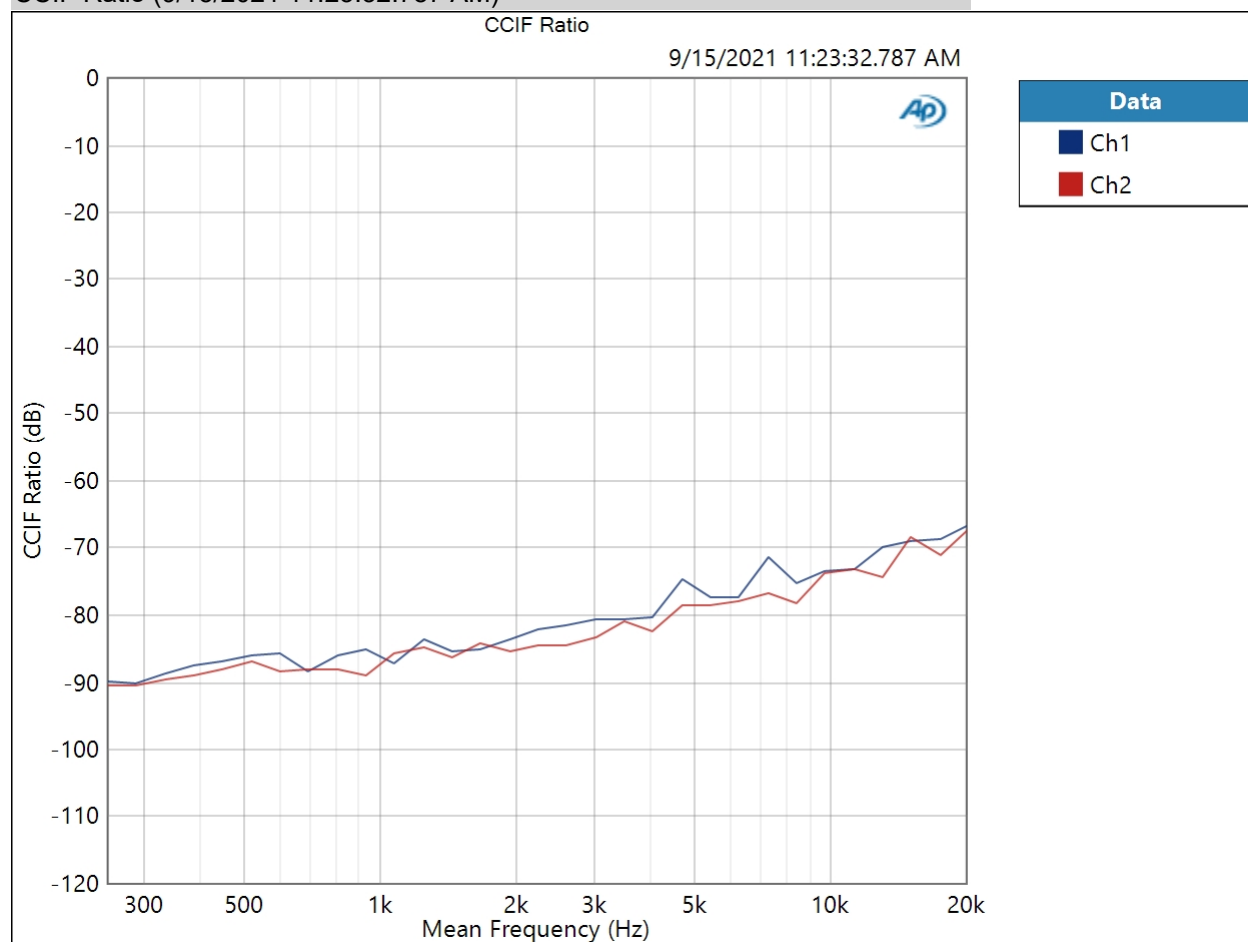
Schiit APx Report for Mani 2



MM : IMD Frequency Sweep (CCIF)

Generator Level: 12.00 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 9/15/2021 11:23:32 AM

CCIF Ratio (9/15/2021 11:23:32.787 AM)



Result:  PASSED

MM : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: 12.00 mVrms

DC Offset: 0.000 V

Frequency: 10.0000 kHz

Crosstalk (9/15/2021 11:23:36.594 AM)

Ch1 -101.637 dB

Ch2 -92.329 dB

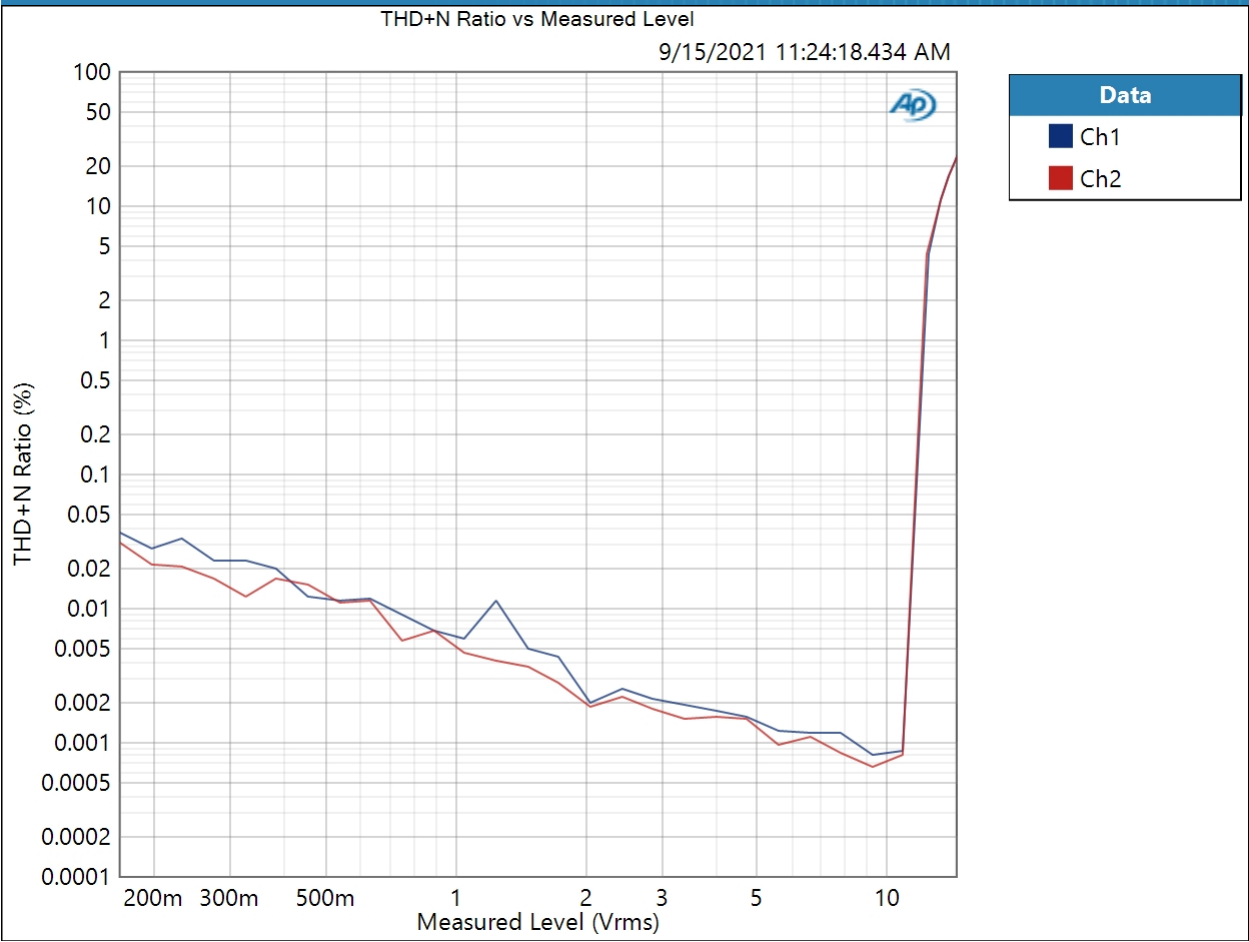
Schiit APx Report for Mani 2



MM : Stepped Level Sweep

Waveform: Sine
Frequency: 1.00000 kHz
Start Level: 1.000 mVrms
Stop Level: 150.0 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 9/15/2021 11:24:18 AM

THD+N Ratio vs Measured Level (9/15/2021 11:24:18.434 AM)



Result: PASSED

Low Output MM-High Output MC : Signal Path Setup

Output Connector: Analog Unbalanced
 Channels: 2
 Source Impedance: 20 ohm
 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
 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.

Low Output MM-High Output MC : Verify Connections

Waveform: Sine
 Generator Level: 7.000 mVrms
 DC Offset: 0.000 V
 Frequency: 1.00000 kHz

Gain (9/15/2021 11:27:55.138 AM)

Ch1 49.299 dB

Ch2 49.297 dB

Low Output MM-High Output MC : Level and Gain

Waveform: Sine
 Generator Level: 7.000 mVrms
 DC Offset: 0.000 V
 Frequency: 1.00000 kHz
 Low-pass Filter: Signal Path

RMS Level (9/15/2021 11:27:56.940 AM)

Ch1 2.042 Vrms

Ch2 2.041 Vrms

Low Output MM-High Output MC : 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 (9/15/2021 11:27:58.222 AM)

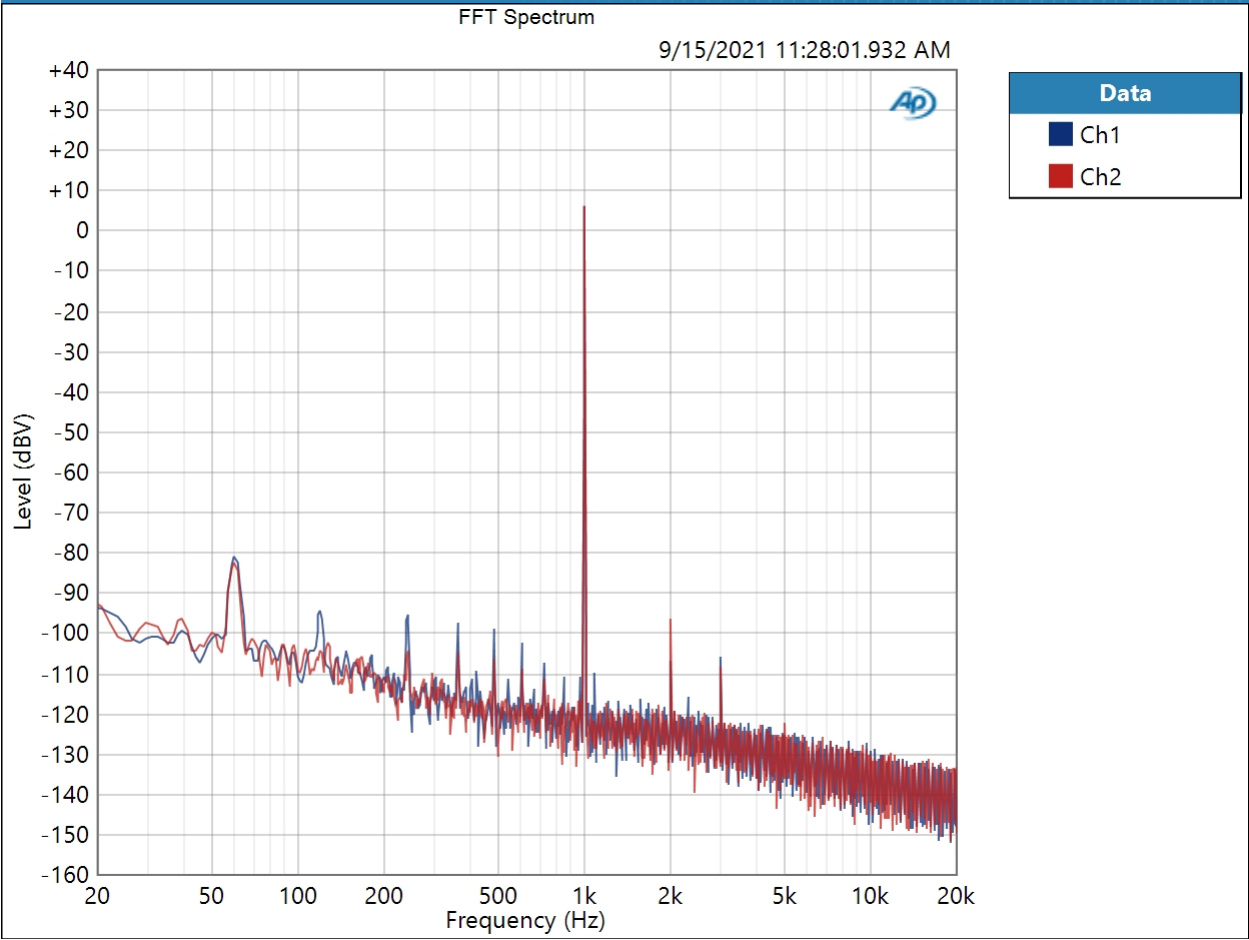
Ch1 390.2 uV

Ch2 -512.1 uV

Low Output MM-High Output MC : Signal Analyzer

Waveform: Sine
Generator Level: 7.000 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 9/15/2021 11:28:01 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 (9/15/2021 11:28:01.932 AM)



Result: PASSED

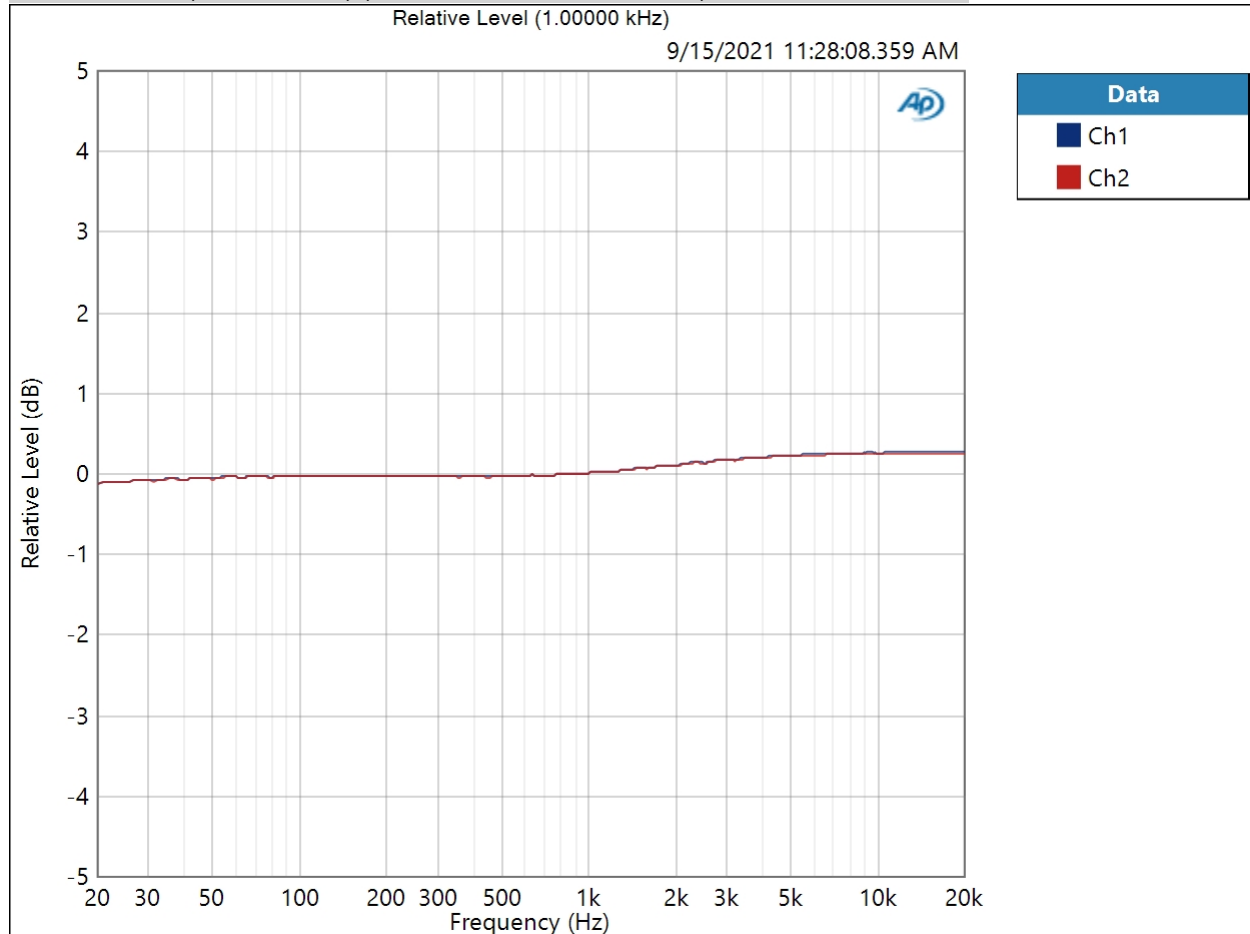
Schiit APx Report for Mani 2



Low Output MM-High Output MC : Frequency Response

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: 7.000 mVrms
DC Offset: 0.000 V
EQ: Relative
Pre-Sweep: 100.0 ms
Sweep: 350.0 ms
Extend Acquisition By: 2.000 s
Secondary Source: None
Measured 1 9/15/2021 11:28:08 AM

Relative Level (1.00000 kHz) (9/15/2021 11:28:08.359 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Schiit APx Report for Mani 2



Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/15/2021 11:28:08.359 AM)

Ch1 ± 0.193 dB

Ch2 ± 0.186 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Low Output MM-High Output MC : Signal to Noise Ratio

Waveform: Sine

Generator Level: 7.000 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 (9/15/2021 11:28:10.426 AM)

Ch1 96.971 dB

Ch2 98.182 dB

Schiit APx Report for Mani 2



Low Output MM-High Output MC : THD+N

Waveform: Sine
 Generator Level: 7.000 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 (9/15/2021 11:28:12.100 AM)

Ch1 -97.386 dB

Ch2 -96.836 dB

THD Ratio (9/15/2021 11:28:12.100 AM)

Ch1 0.000430 %

Ch2 0.000884 %

Noise Ratio (9/15/2021 11:28:12.100 AM)

Ch1 0.001276 %

Ch2 0.001140 %

Distortion Product Ratio (9/15/2021 11:28:12.100 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	-110.77	-110.72	-123.32	-122.99	-127.11	-127.94	-131.90	-132.58	-131.07
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-101.50	-112.48	-121.88	-122.98	-131.75	-130.49	-132.04	-134.49	-134.43

Distortion Product Ratio Parameters

Frequency Unit: Hz

Ratio Unit: dB

Channel: Ch1

Schiit APx Report for Mani 2



Low Output MM-High Output MC : IMD Level Sweep (CCIF)

IMD Type: CCIF

Mean Frequency: 12.5000 kHz

Diff Frequency: 80.0000 Hz

IMD Split: False

Start Level: 1.000 mVrms

Stop Level: 100.0 mVrms

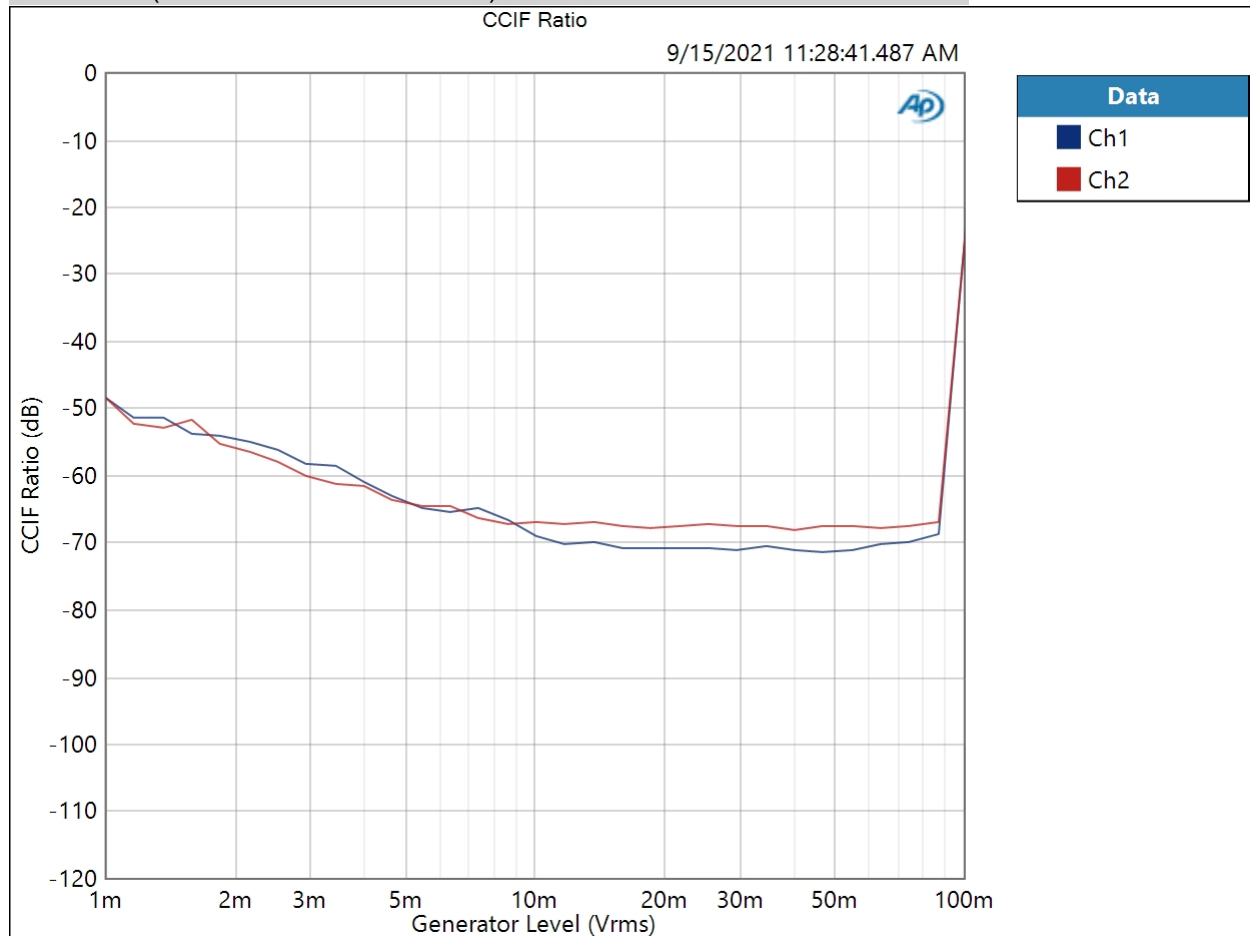
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 9/15/2021 11:28:41 AM

CCIF Ratio (9/15/2021 11:28:41.487 AM)



Result: PASSED

9/15/2021 11:35 AM

Page 36 of 62

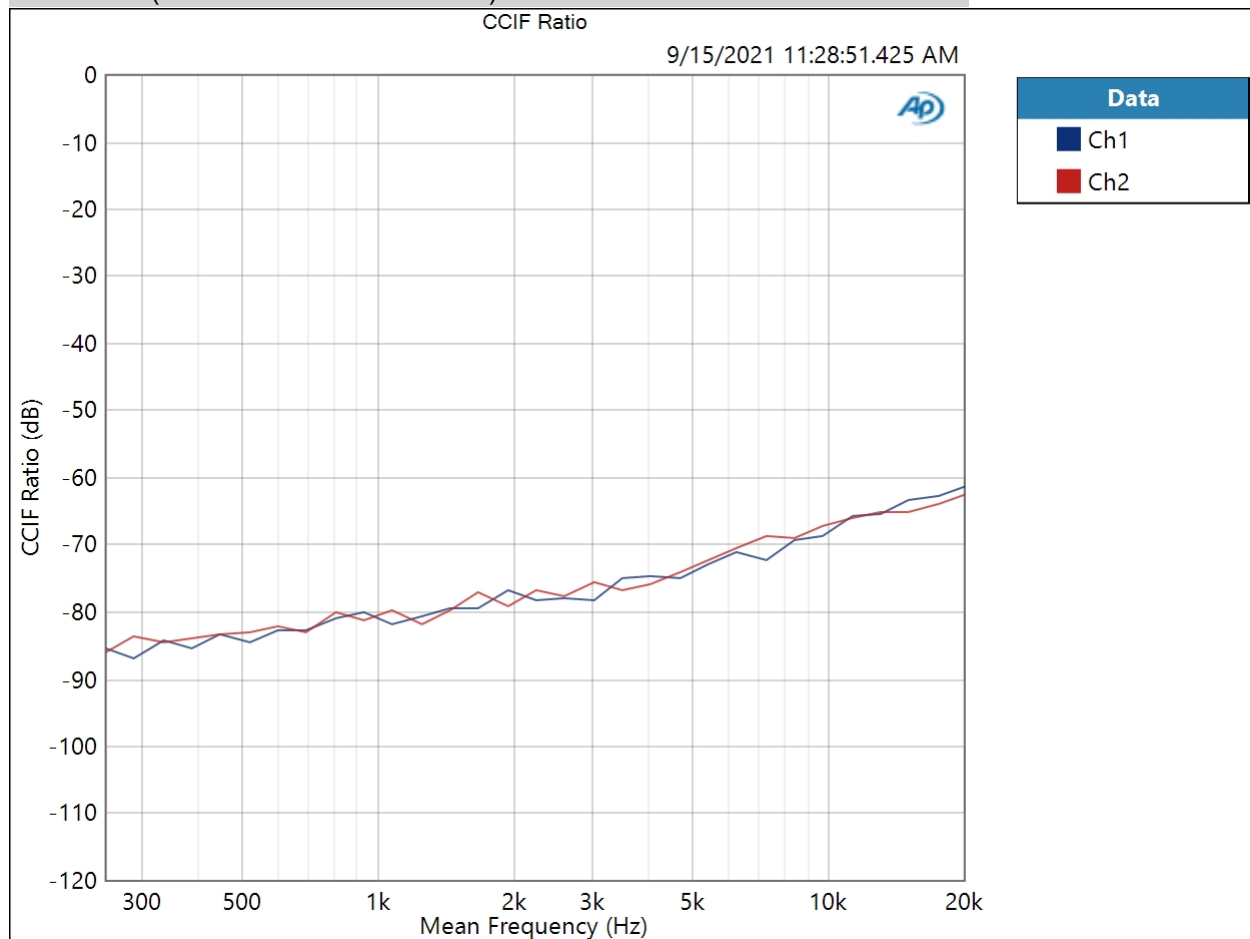
Schiit APx Report for Mani 2



Low Output MM-High Output MC : IMD Frequency Sweep (CCIF)

Generator Level: 7.000 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 9/15/2021 11:28:51 AM

CCIF Ratio (9/15/2021 11:28:51.425 AM)



Result:  PASSED

Low Output MM-High Output MC : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: 7.000 mVrms

DC Offset: 0.000 V

Frequency: 10.0000 kHz

Crosstalk (9/15/2021 11:28:52.986 AM)

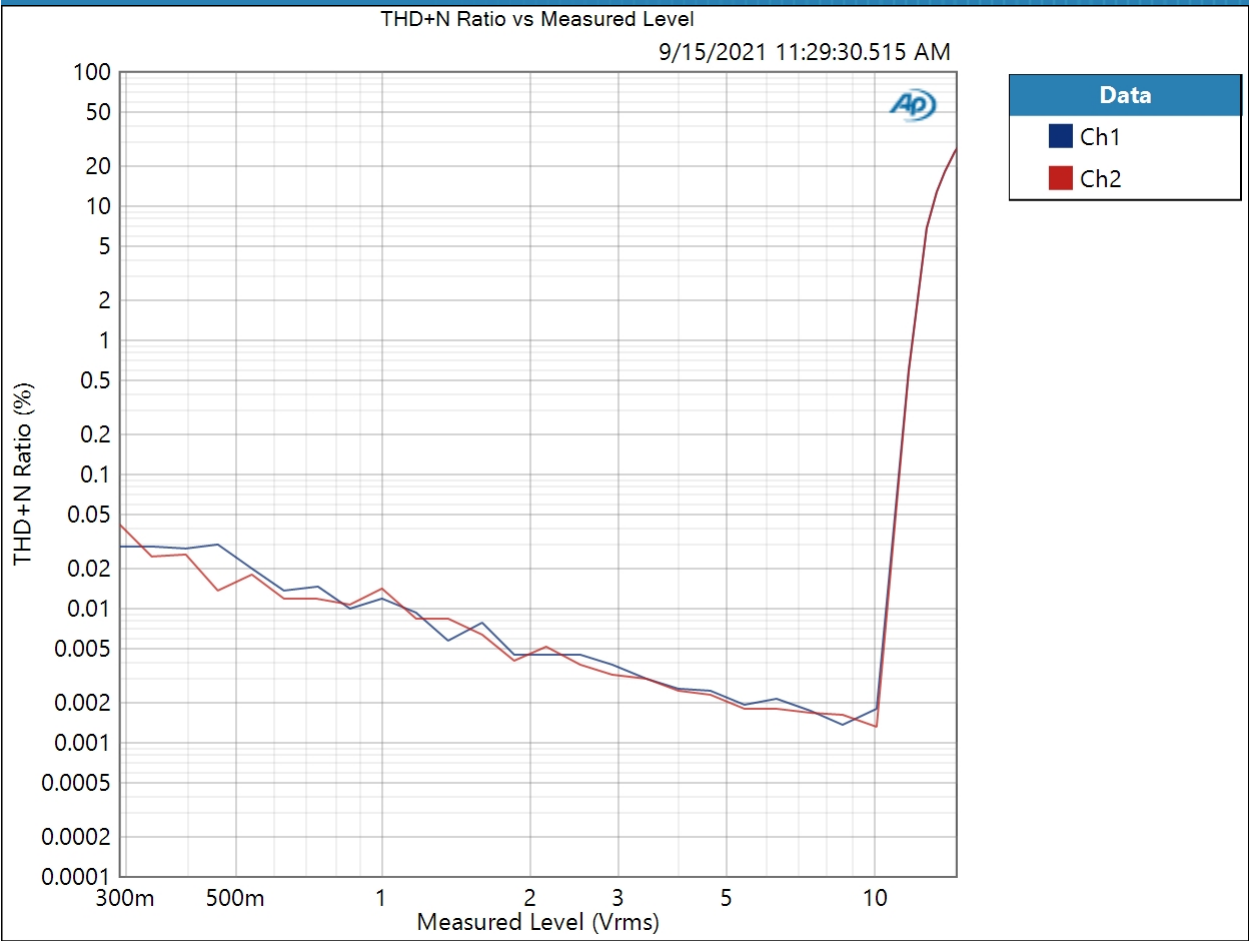
Ch1 -86.066 dB

Ch2 -81.285 dB

Low Output MM-High Output MC : Stepped Level Sweep

Waveform: Sine
Frequency: 1.00000 kHz
Start Level: 1.000 mVrms
Stop Level: 100.0 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 9/15/2021 11:29:30 AM

THD+N Ratio vs Measured Level (9/15/2021 11:29:30.515 AM)



Result: PASSED

MC : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Source Impedance:	20 ohm
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
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.

MC : Verify Connections

Waveform: Sine
 Generator Level: 2.250 mVrms
 DC Offset: 0.000 V
 Frequency: 1.00000 kHz
 Gain (9/15/2021 11:33:11.753 AM)
 Ch1 59.094 dB
 Ch2 59.093 dB

MC : Level and Gain

Waveform: Sine
 Generator Level: 2.250 mVrms
 DC Offset: 0.000 V
 Frequency: 1.00000 kHz
 Low-pass Filter: Signal Path
 RMS Level (9/15/2021 11:33:13.658 AM)
 Ch1 2.027 Vrms
 Ch2 2.027 Vrms

MC : 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 (9/15/2021 11:33:14.941 AM)
 Ch1 -356.8 uV
 Ch2 -1.698 mV

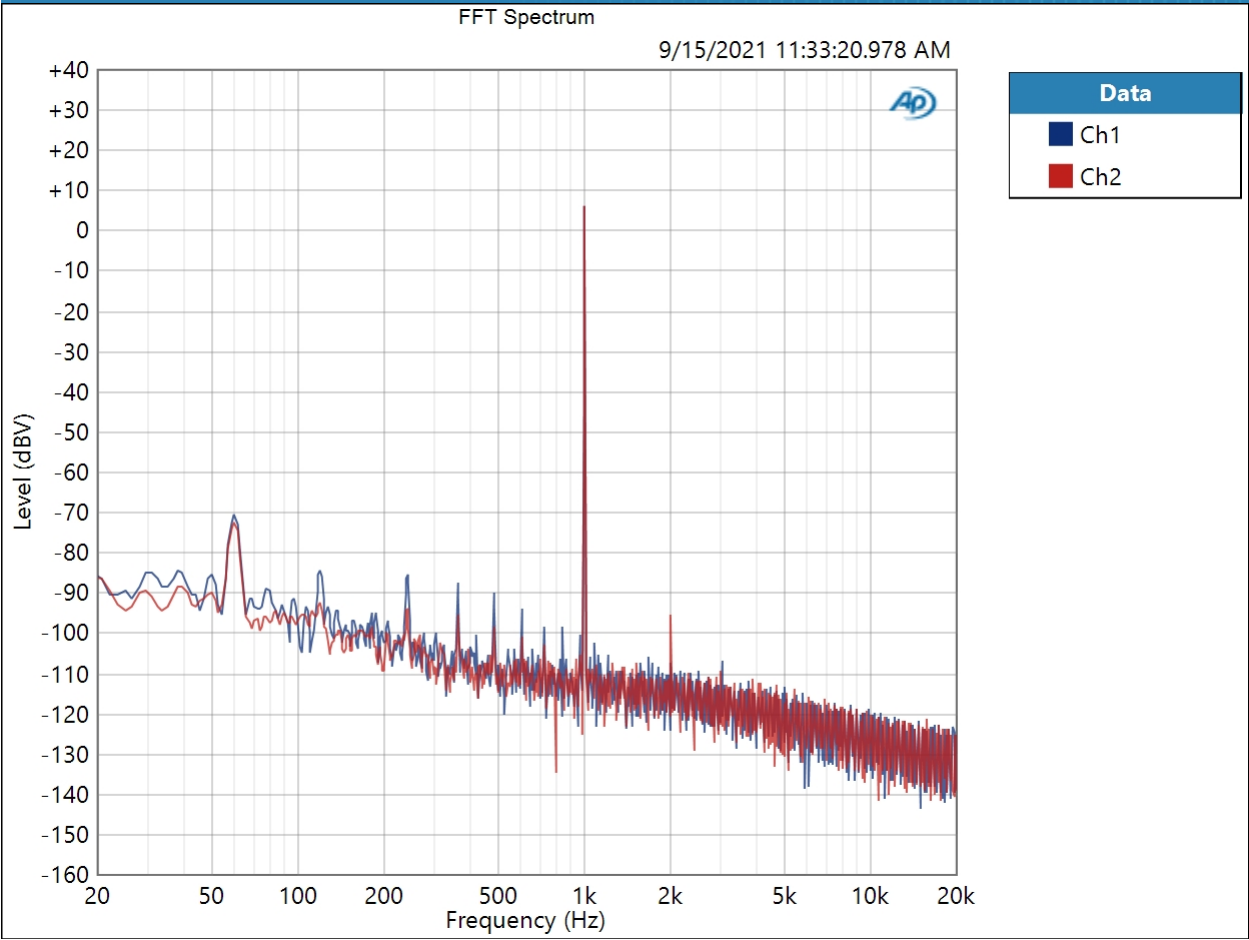
Schiit APx Report for Mani 2



MC : Signal Analyzer

Waveform: Sine
Generator Level: 2.250 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 9/15/2021 11:33:20 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 (9/15/2021 11:33:20.978 AM)



Result: PASSED

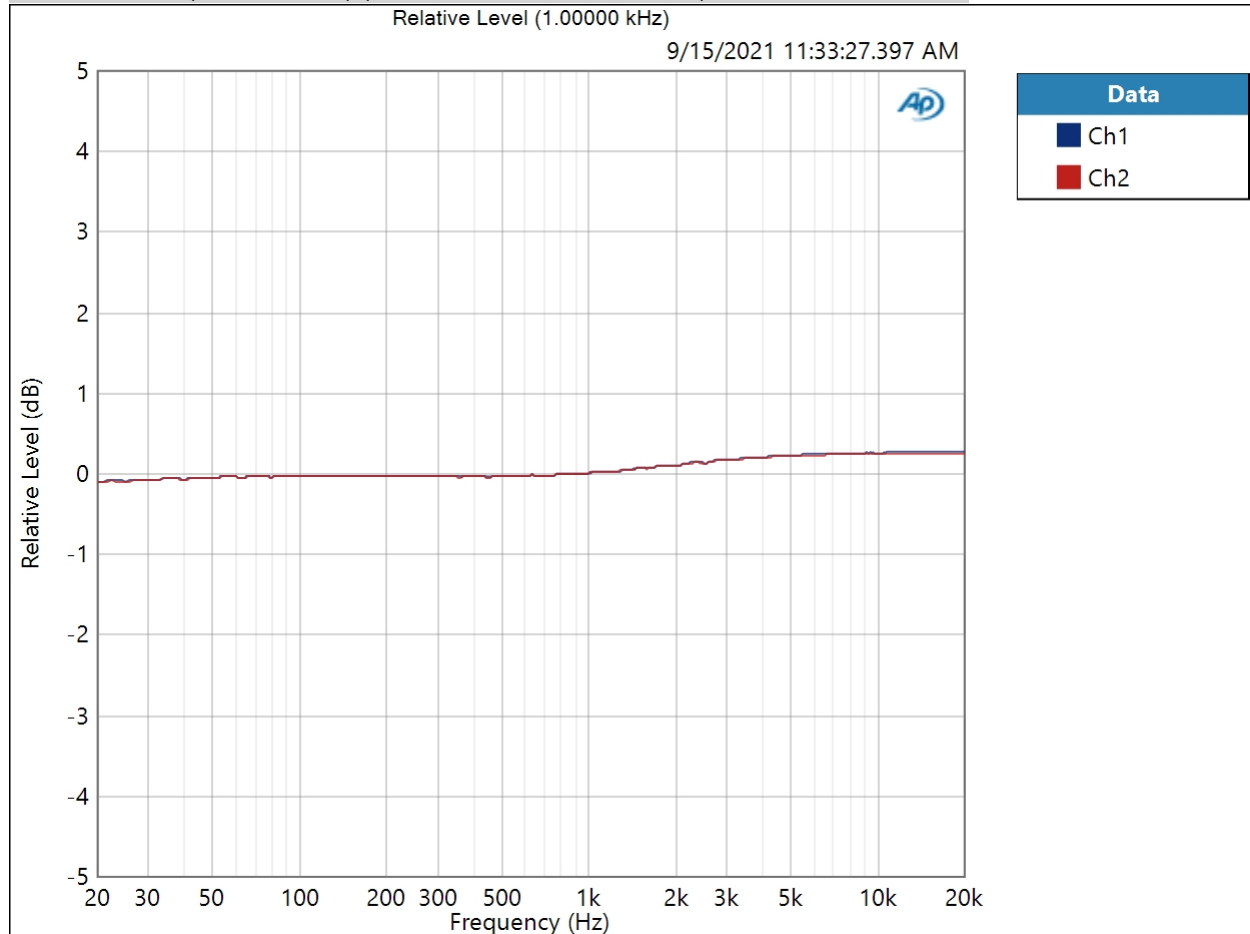
Schiit APx Report for Mani 2



MC : Frequency Response

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: 2.250 mVrms
DC Offset: 0.000 V
EQ: Relative
Pre-Sweep: 100.0 ms
Sweep: 350.0 ms
Extend Acquisition By: 2.000 s
Secondary Source: None
Measured 1 9/15/2021 11:33:27 AM

Relative Level (1.00000 kHz) (9/15/2021 11:33:27.397 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Schiit APx Report for Mani 2



Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/15/2021 11:33:27.397 AM)

Ch1 ± 0.186 dB

Ch2 ± 0.184 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

MC : Signal to Noise Ratio

Waveform: Sine

Generator Level: 2.250 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 (9/15/2021 11:33:29.527 AM)

Ch1 87.183 dB

Ch2 88.403 dB

MC : THD+N

Waveform: Sine
 Generator Level: 2.250 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 (9/15/2021 11:33:32.013 AM)

Ch1 -87.930 dB

Ch2 -89.124 dB

THD Ratio (9/15/2021 11:33:32.013 AM)

Ch1 0.000428 %

Ch2 0.001263 %

Noise Ratio (9/15/2021 11:33:32.013 AM)

Ch1 0.003883 %

Ch2 0.003339 %

Distortion Product Ratio (9/15/2021 11:33:32.013 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	-114.90	-113.93	-113.39	-117.45	-119.09	-118.84	-126.51	-121.61	-124.21
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-98.69	-112.83	-112.04	-111.41	-117.42	-123.47	-118.57	-123.08	-125.48

Distortion Product Ratio Parameters

Frequency Unit: Hz

Ratio Unit: dB

Channel: Ch1

Schiit APx Report for Mani 2



MC : IMD Level Sweep (CCIF)

IMD Type: CCIF

Mean Frequency: 12.5000 kHz

Diff Frequency: 80.0000 Hz

IMD Split: False

Start Level: 1.000 mVrms

Stop Level: 90.00 mVrms

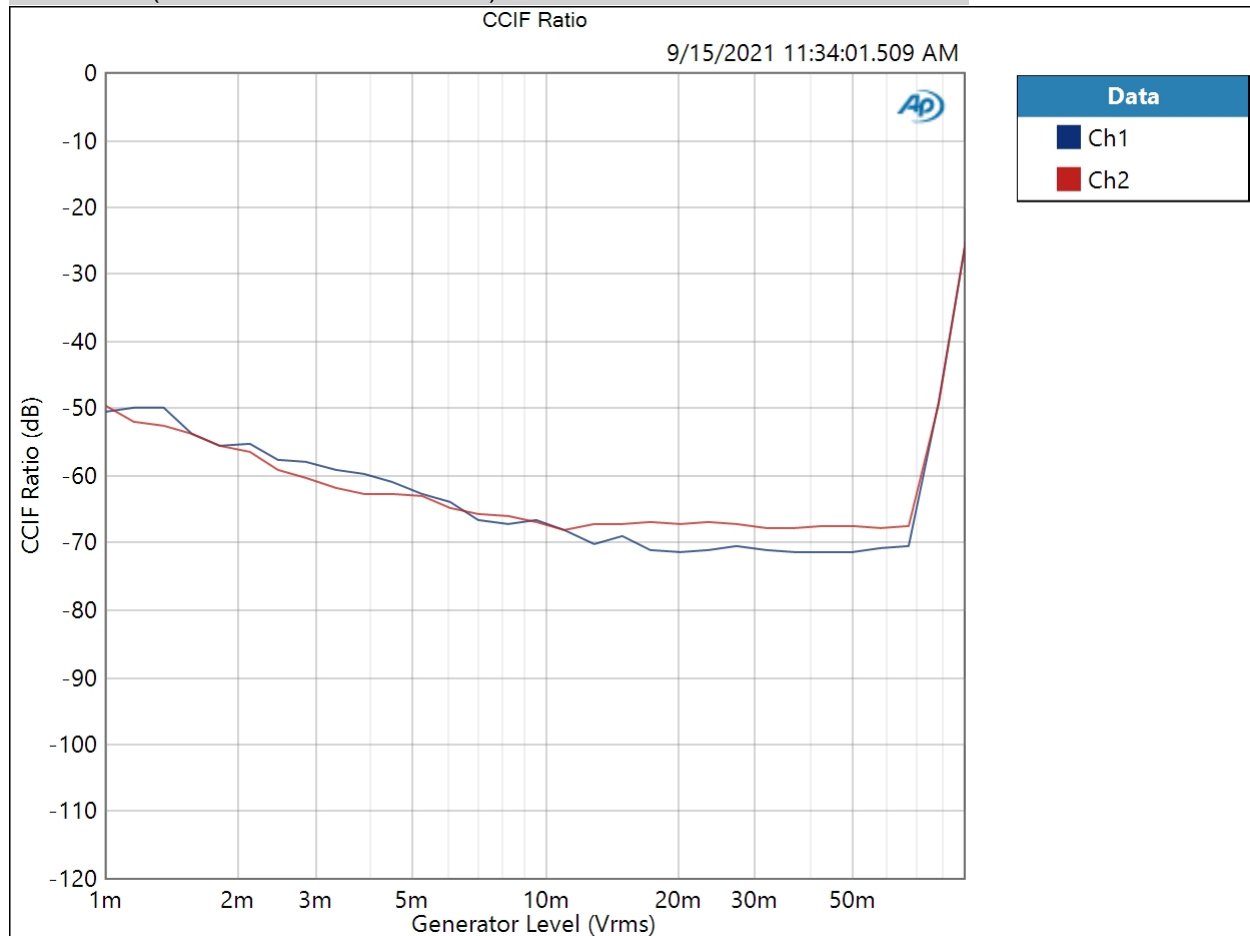
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 9/15/2021 11:34:01 AM

CCIF Ratio (9/15/2021 11:34:01.509 AM)



Result: PASSED

9/15/2021 11:35 AM

Page 49 of 62

Schiit APx Report for Mani 2



MC : IMD Frequency Sweep (CCIF)

Generator Level: 2.250 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

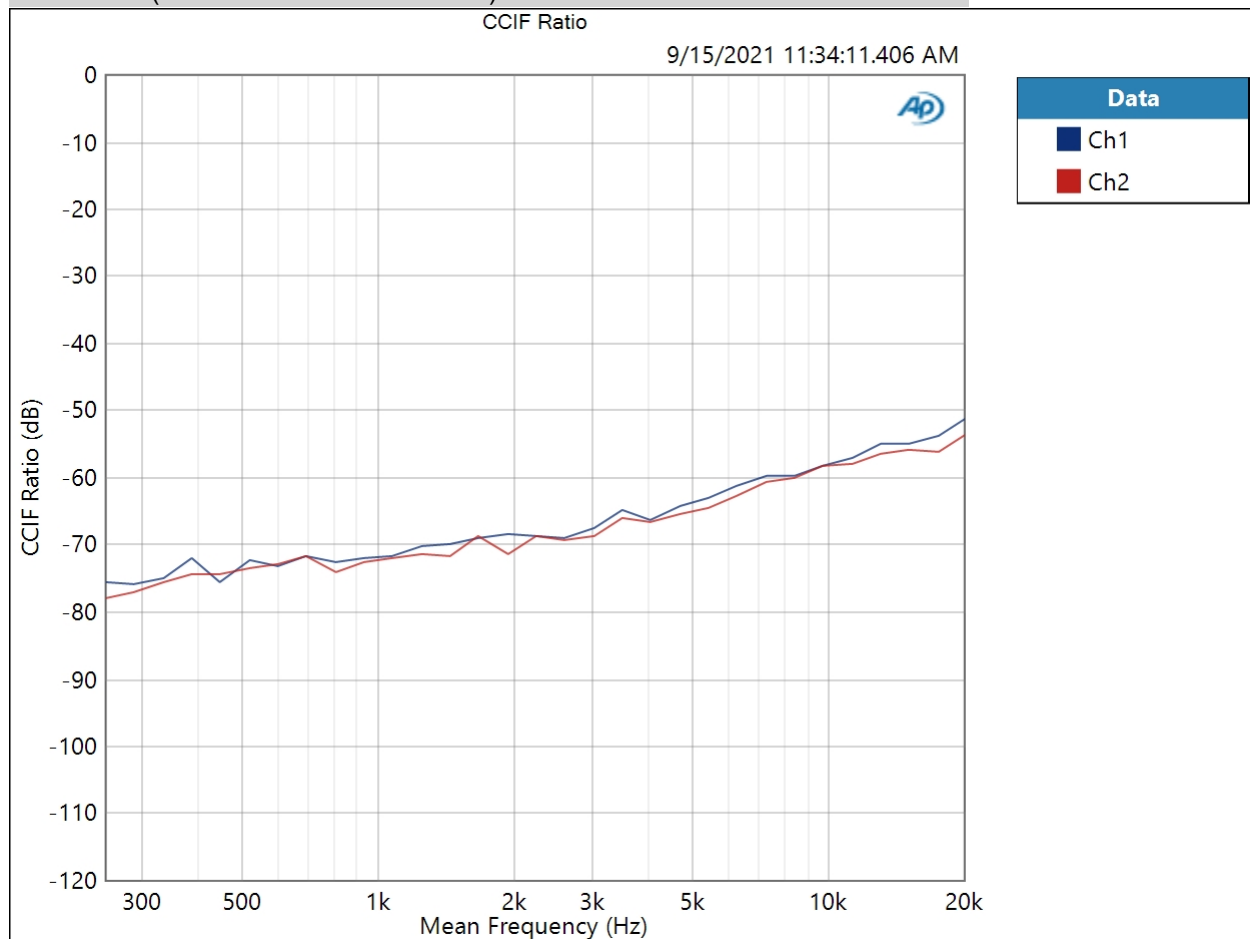
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 9/15/2021 11:34:11 AM

CCIF Ratio (9/15/2021 11:34:11.406 AM)



Result:  PASSED

MC : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: 2.250 mVrms

DC Offset: 0.000 V

Frequency: 10.0000 kHz

Crosstalk (9/15/2021 11:34:15.629 AM)

Ch1 -83.893 dB

Ch2 -77.404 dB

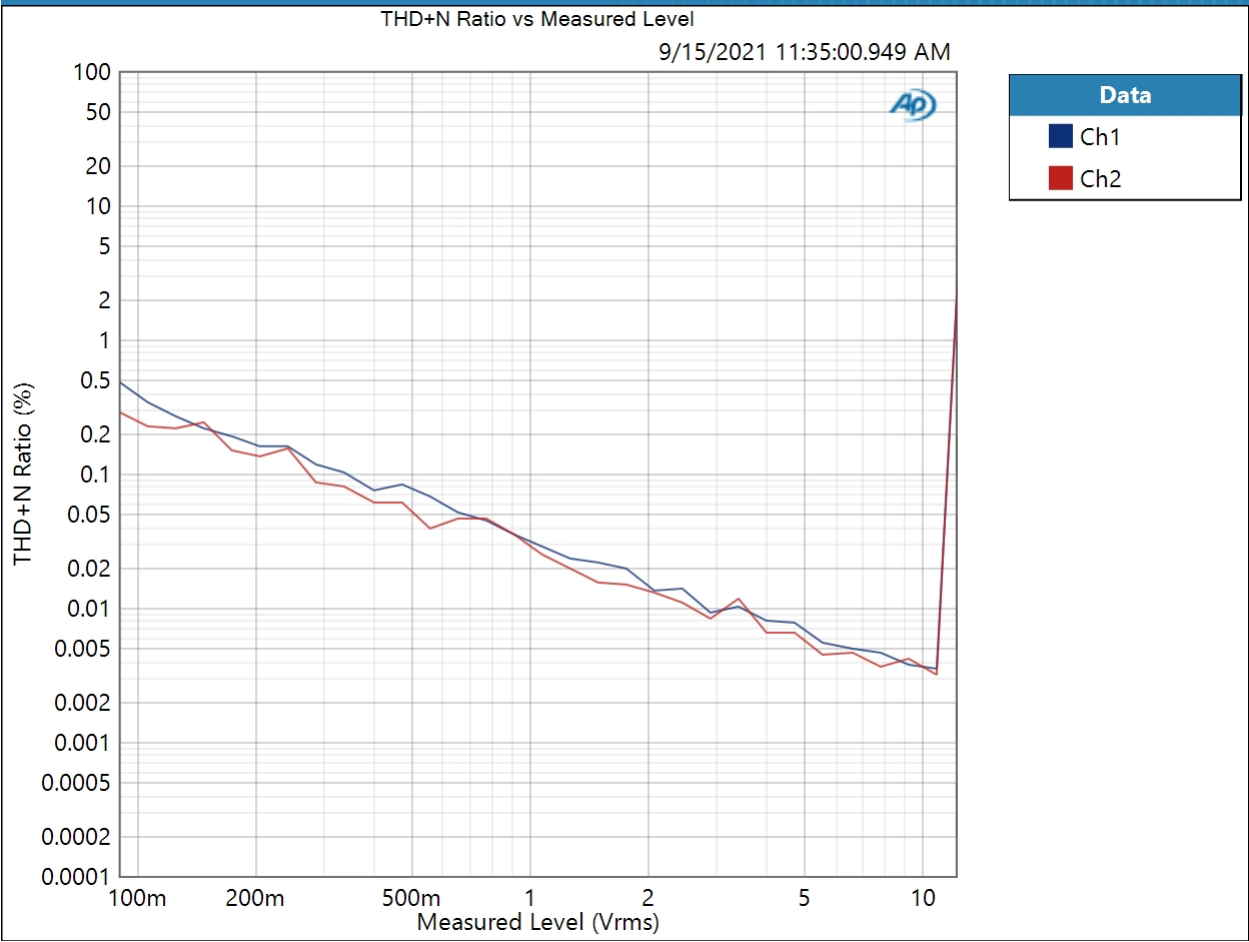
Schiit APx Report for Mani 2



MC : Stepped Level Sweep

Waveform: Sine
Frequency: 1.00000 kHz
Start Level: 100.0 uVrms
Stop Level: 14.00 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 9/15/2021 11:35:00 AM

THD+N Ratio vs Measured Level (9/15/2021 11:35:00.949 AM)



Result: PASSED

RIAA and Rumble Filter : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Source Impedance:	20 ohm
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
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.

Schiit APx Report for Mani 2



RIAA and Rumble Filter : Verify Connections

Waveform: Sine
Generator Level: 12.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz

Gain (9/15/2021 11:20:26.500 AM)

Ch1 44.403 dB

Ch2 44.401 dB

RIAA and Rumble Filter : Level and Gain

Waveform: Sine
Generator Level: 12.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Low-pass Filter: Signal Path

RMS Level (9/15/2021 11:20:28.264 AM)

Ch1 1.992 Vrms

Ch2 1.992 Vrms

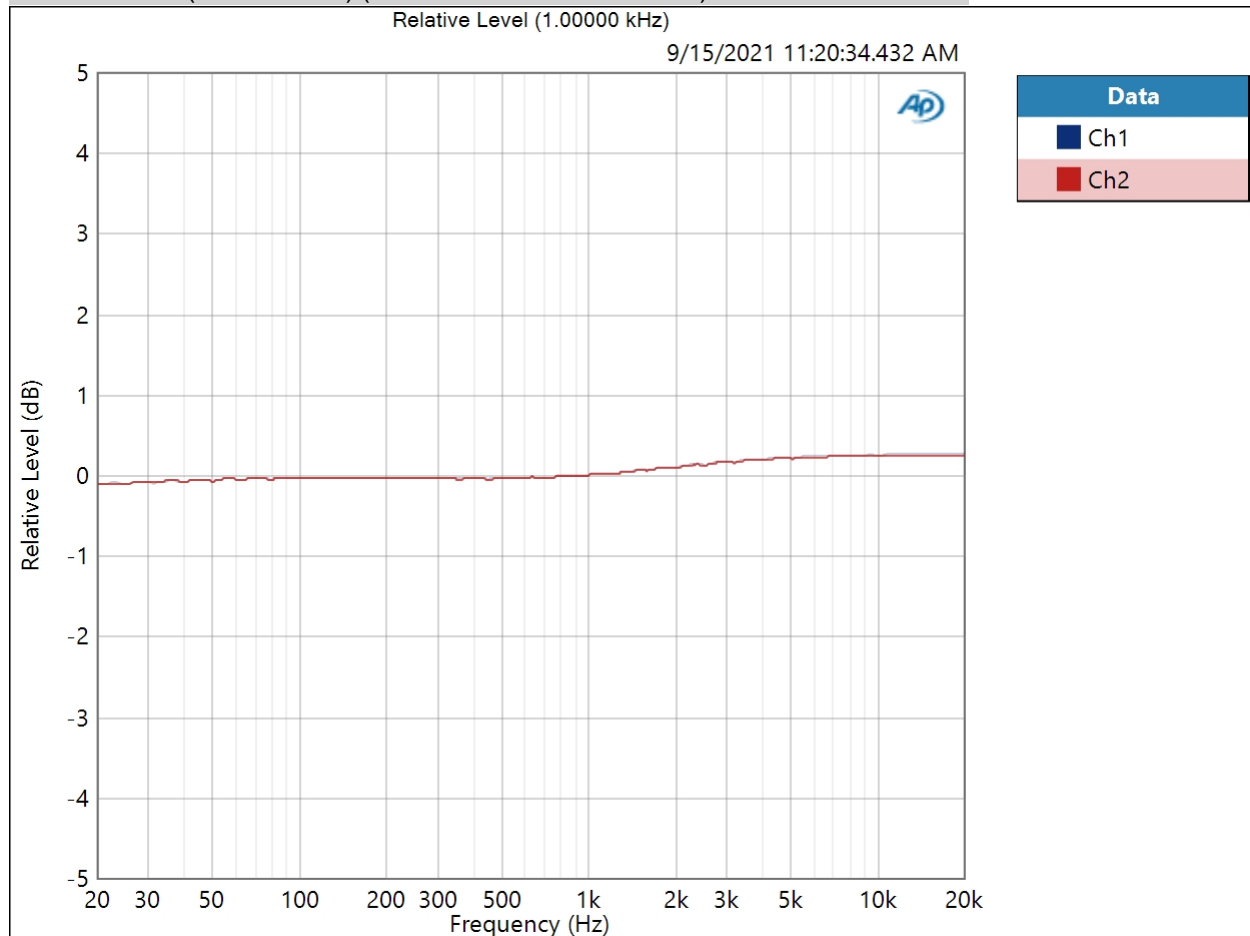
Schiit APx Report for Mani 2



RIAA and Rumble Filter : RIAA Accuracy

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: 12.00 mVrms
DC Offset: 0.000 V
EQ: Relative
Pre-Sweep: 100.0 ms
Sweep: 350.0 ms
Extend Acquisition By: 2.000 s
Secondary Source: None
Measured 1 9/15/2021 11:20:34 AM

Relative Level (1.00000 kHz) (9/15/2021 11:20:34.432 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Schiit APx Report for Mani 2



Ref Frequency: 1.00000 kHz

Result:  PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/15/2021 11:20:34.432 AM)

Ch1 ± 0.187 dB

Ch2 ± 0.184 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Schiit APx Report for Mani 2



RIAA and Rumble Filter : Rumble 1 Pole

Start Frequency: 5.00000 Hz

Stop Frequency: 20.0000 kHz

Generator Level: 12.00 mVrms

DC Offset: 0.000 V

EQ: Relative

Pre-Sweep: 100.0 ms

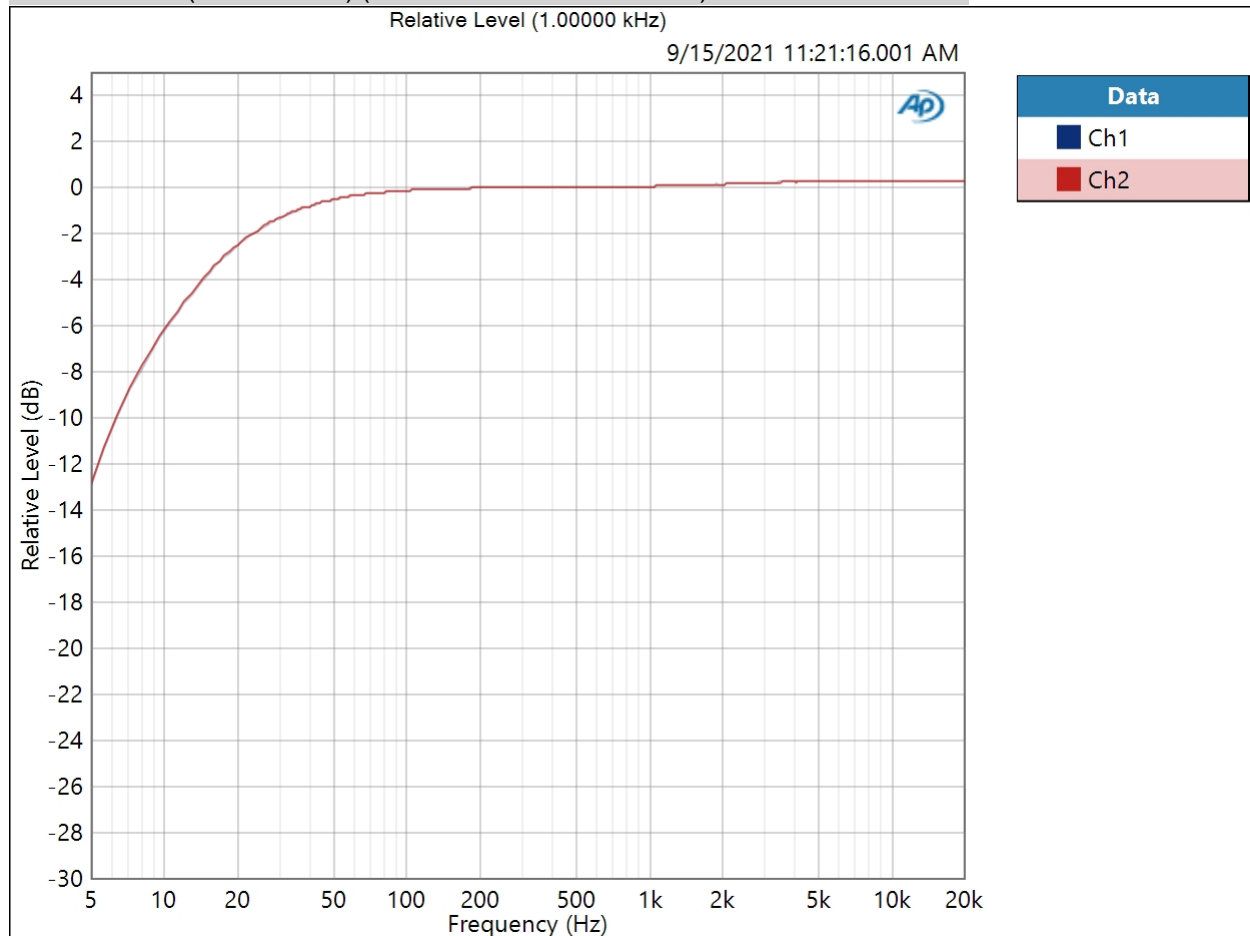
Sweep: 350.0 ms

Extend Acquisition By: 2.000 s

Secondary Source: None

Measured 1 9/15/2021 11:21:16 AM

Relative Level (1.00000 kHz) (9/15/2021 11:21:16.001 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Schiit APx Report for Mani 2



Ref Frequency: 1.00000 kHz

Result:  PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/15/2021 11:21:16.001 AM)

Ch1 ± 1.421 dB

Ch2 ± 1.387 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Schiit APx Report for Mani 2



RIAA and Rumble Filter : Rumble 2 Pole

Start Frequency: 5.00000 Hz

Stop Frequency: 20.0000 kHz

Generator Level: 12.00 mVrms

DC Offset: 0.000 V

EQ: Relative

Pre-Sweep: 100.0 ms

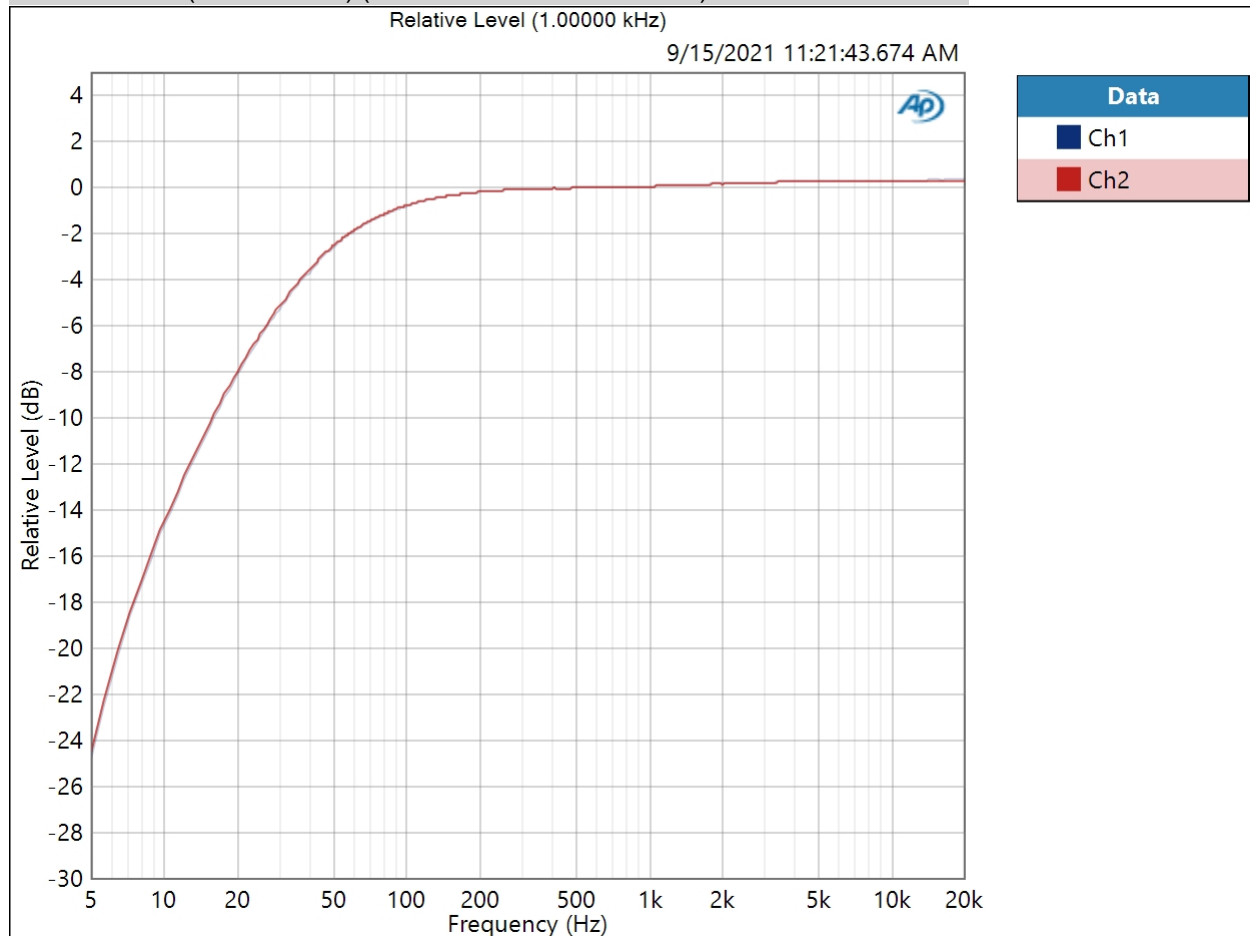
Sweep: 350.0 ms

Extend Acquisition By: 2.000 s

Secondary Source: None

Measured 1 9/15/2021 11:21:43 AM

Relative Level (1.00000 kHz) (9/15/2021 11:21:43.674 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Schiit APx Report for Mani 2



Ref Frequency: 1.00000 kHz

Result:  PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/15/2021 11:21:43.674 AM)

Ch1 ± 4.209 dB

Ch2 ± 4.128 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz