

Sequence Report



Summary

Signal Path1

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

Sequence Result:

Sequence Result: ✓ PASSED

APx Instrument

Instrument ID:	93294
Calibration Date:	9/12/2017
APx Version:	8.0.1.3

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Signal Path1 : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Configuration:	Normal (Differential)
Source Impedance:	100 ohm
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog 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:	DC - 90k (192 kHz SR)
Input EQ:	None
Termination:	200 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.

Signal Path1 : Level and Gain

Waveform: Sine
Generator Level: 400.0 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Low-pass Filter: Signal Path

RMS Level (3/15/2024 12:41:04.368 PM)

Ch1 511.2 W
Ch2 39.10 uW

Gain (3/15/2024 12:41:04.368 PM)

Ch1 44.076 dB
Ch2 -27.089 dB

Peak Level (3/15/2024 12:41:04.368 PM)

Ch1 90.48 V
Ch2 26.00 mV

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Signal Path1 : THD+N

Waveform: Sine
 Generator Level: 400.0 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 (3/15/2024 12:41:08.379 PM)

Ch1 0.016846 %
 Ch2 10.810422 %

THD+N Level (3/15/2024 12:41:08.379 PM)

Ch1 14.51 uW
 Ch2 14.92 nW

THD Ratio (3/15/2024 12:41:08.379 PM)

Ch1 0.015094 %
 Ch2 0.018730 %

THD Level (3/15/2024 12:41:08.379 PM)

Ch1 11.65 uW
 Ch2 1.370 pW

Noise Ratio (3/15/2024 12:41:08.379 PM)

Ch1 0.006995 %
 Ch2 0.020350 %

Noise Level (3/15/2024 12:41:08.379 PM)

Ch1 2.503 uW
 Ch2 1.617 pW

Distortion Product Ratio (3/15/2024 12:41:08.379 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	-81.38	-79.96	-88.42	-87.49	-105.46	-93.94	-96.71	-90.13	-104.93
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-76.87	-80.53	-87.60	-87.87	-98.94	-95.85	-97.94	-90.37	-97.92

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB

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Channel: Ch1

Distortion Product Level (3/15/2024 12:41:08.379 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	511.6	3.722 u	5.161 u	736.6 n	0.913 u	14.55 n	206.3 n	109.1 n	497.0 n	16.44 n
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	39.04 u	8.	3.	6.	6.	4.	1.	6.	3.	6.
		018e-13	459e-13	785e-14	373e-14	978e-15	015e-14	268e-15	587e-14	299e-15

Distortion Product Level Parameters

Frequency Unit: Hz

Level Unit: W

Channel: Ch1

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Signal Path1 : Frequency Response

Start Frequency: 5.00000 Hz

Stop Frequency: 40.0000 kHz

Generator Level: 400.0 mVrms

DC Offset: 0.000 V

EQ: None

Pre-Sweep: 0.000 s

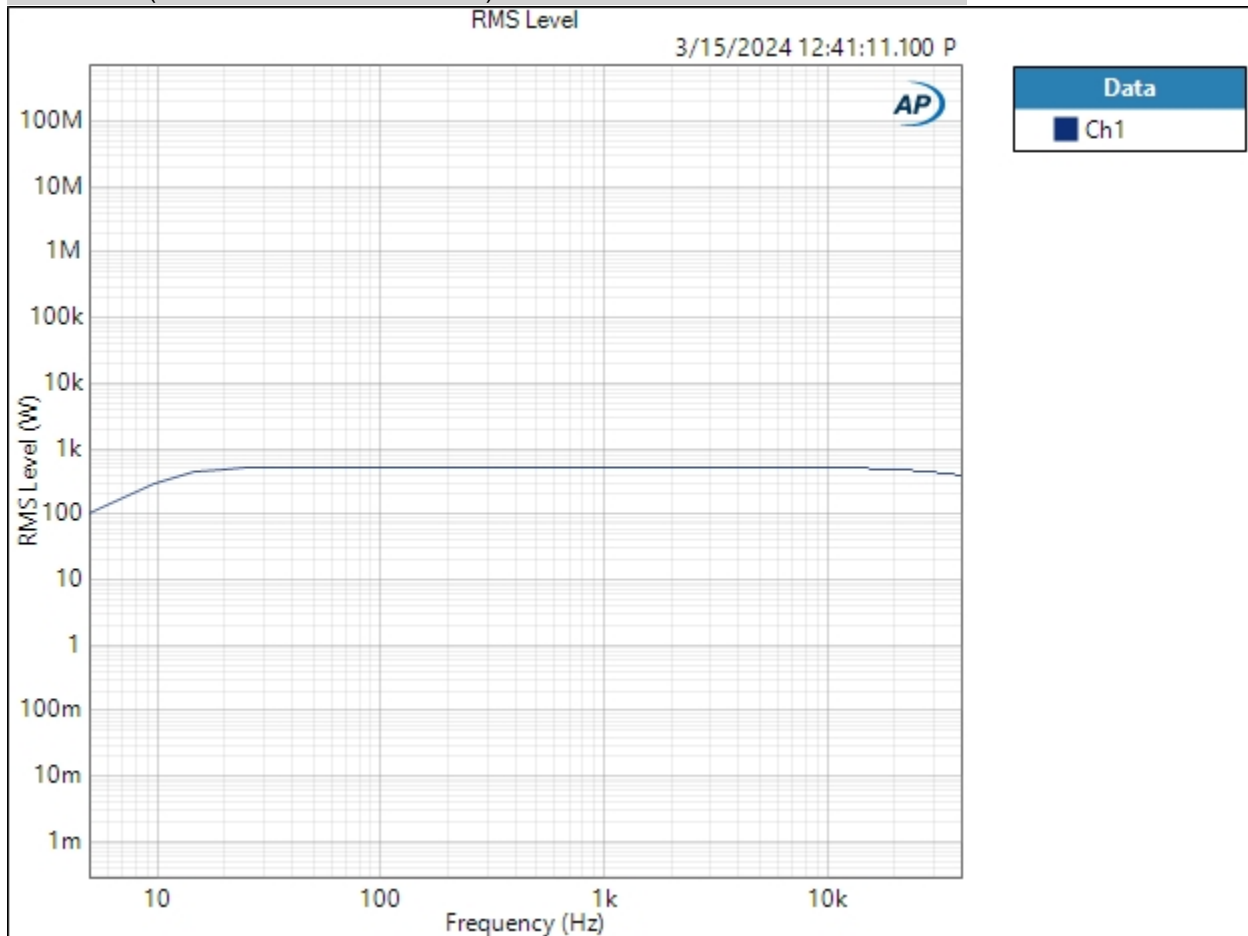
Sweep: 350.0 ms

Extend Acquisition By: 50.00 ms

Secondary Source: None

Measured 1 3/15/2024 12:41:11 PM

RMS Level (3/15/2024 12:41:11.100 PM)

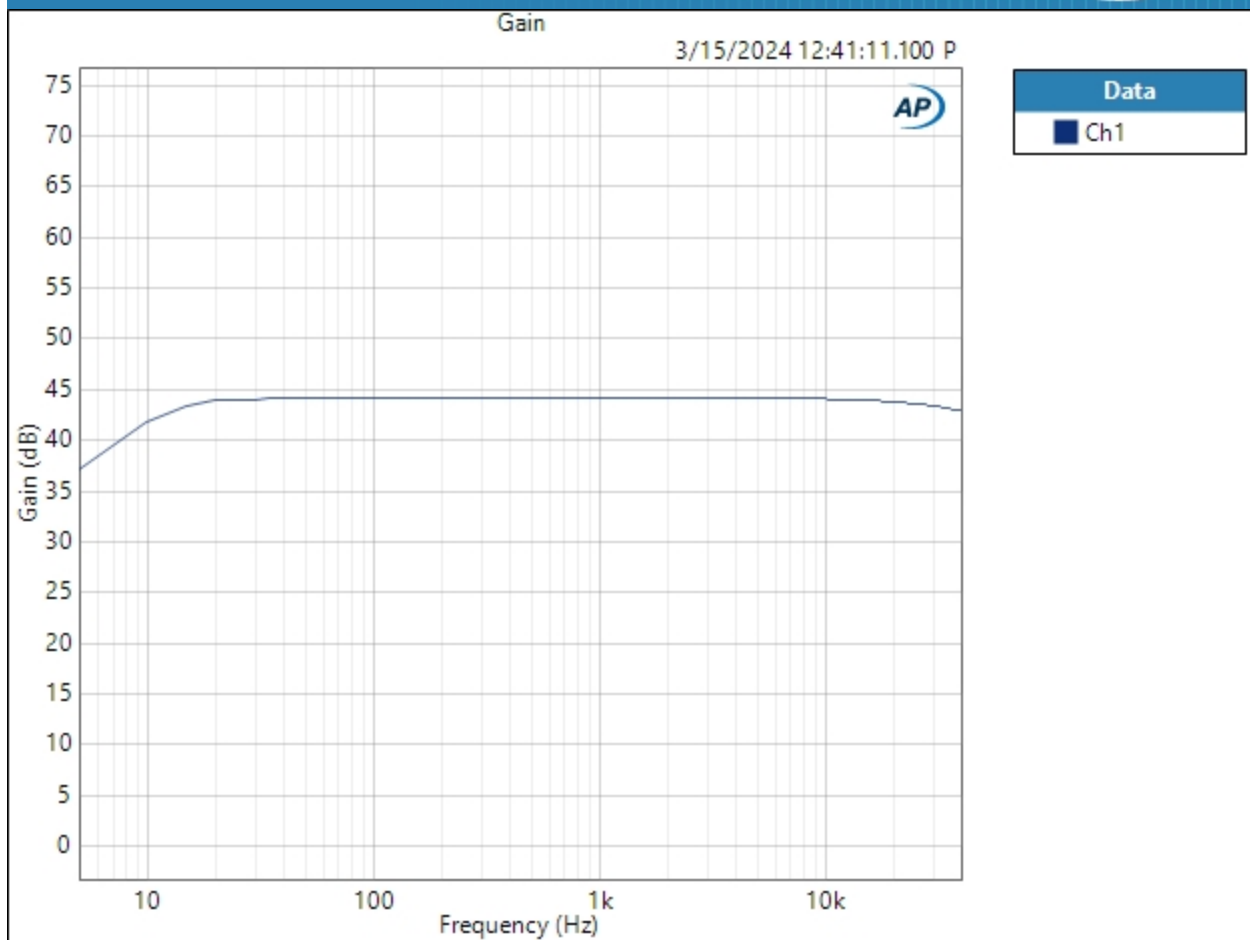


Result: PASSED

Gain (3/15/2024 12:41:11.100 PM)

3/15/2024 12:41 PM

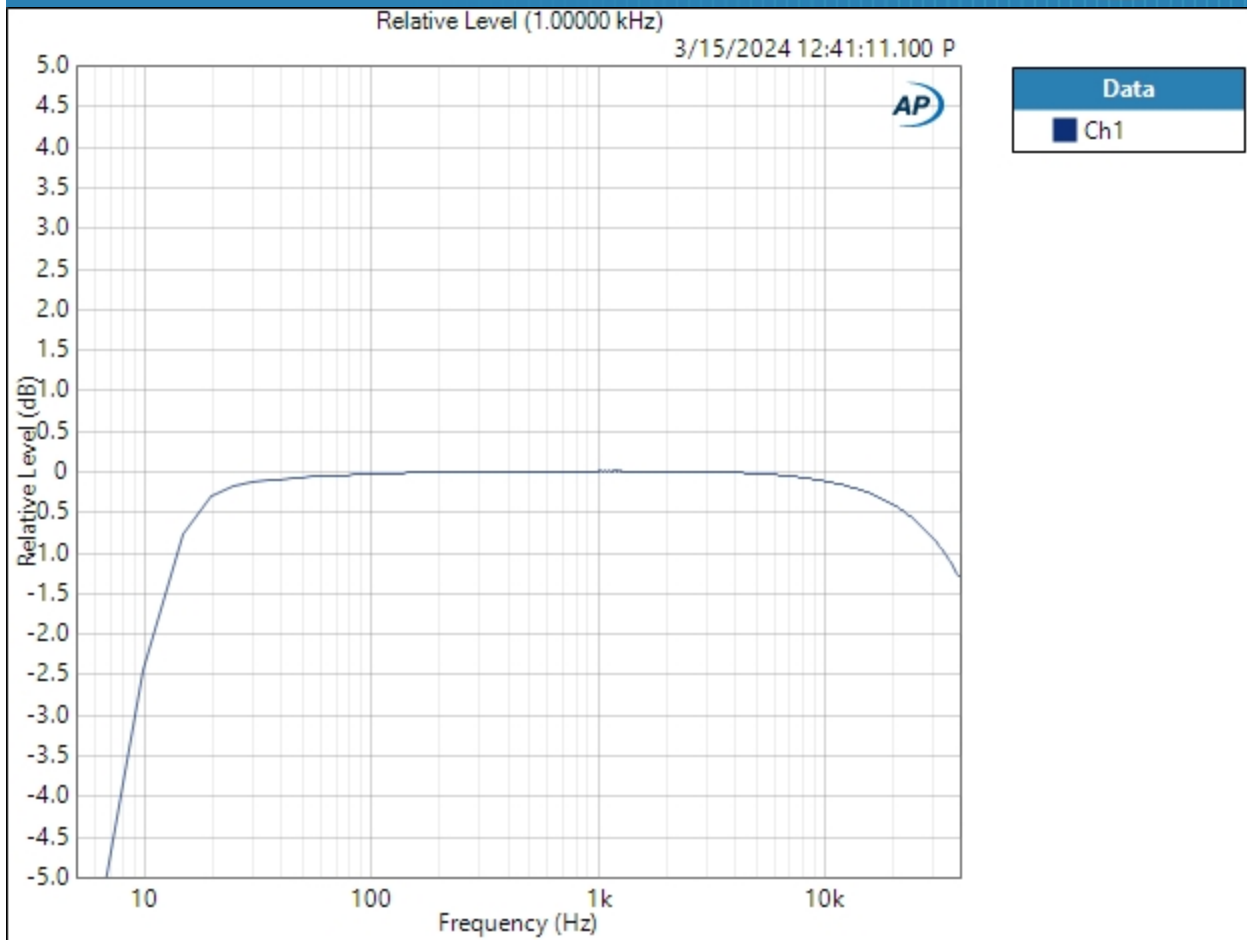
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Result: PASSED

Relative Level (1.00000 kHz) (3/15/2024 12:41:11.100 PM)

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Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (3/15/2024 12:41:11.100 PM)

Ch1 ± 0.208 dB

Ch2 ± 11.083 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

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Signal Path1 : Signal to Noise Ratio

Waveform: Sine
Generator Level: 400.0 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 (3/15/2024 12:41:14.471 PM)

Ch1 100.015 dB

Ch2 76.887 dB

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Signal Path1 : Stepped Level Sweep

Waveform: Sine

Frequency: 1.00000 kHz

Start Level: 1.000 mVrms

Stop Level: 630.0 mVrms

Step Type: Logarithmic

Number of Points: 31

Offset: 0.000 V

High-pass Filter: Signal Path

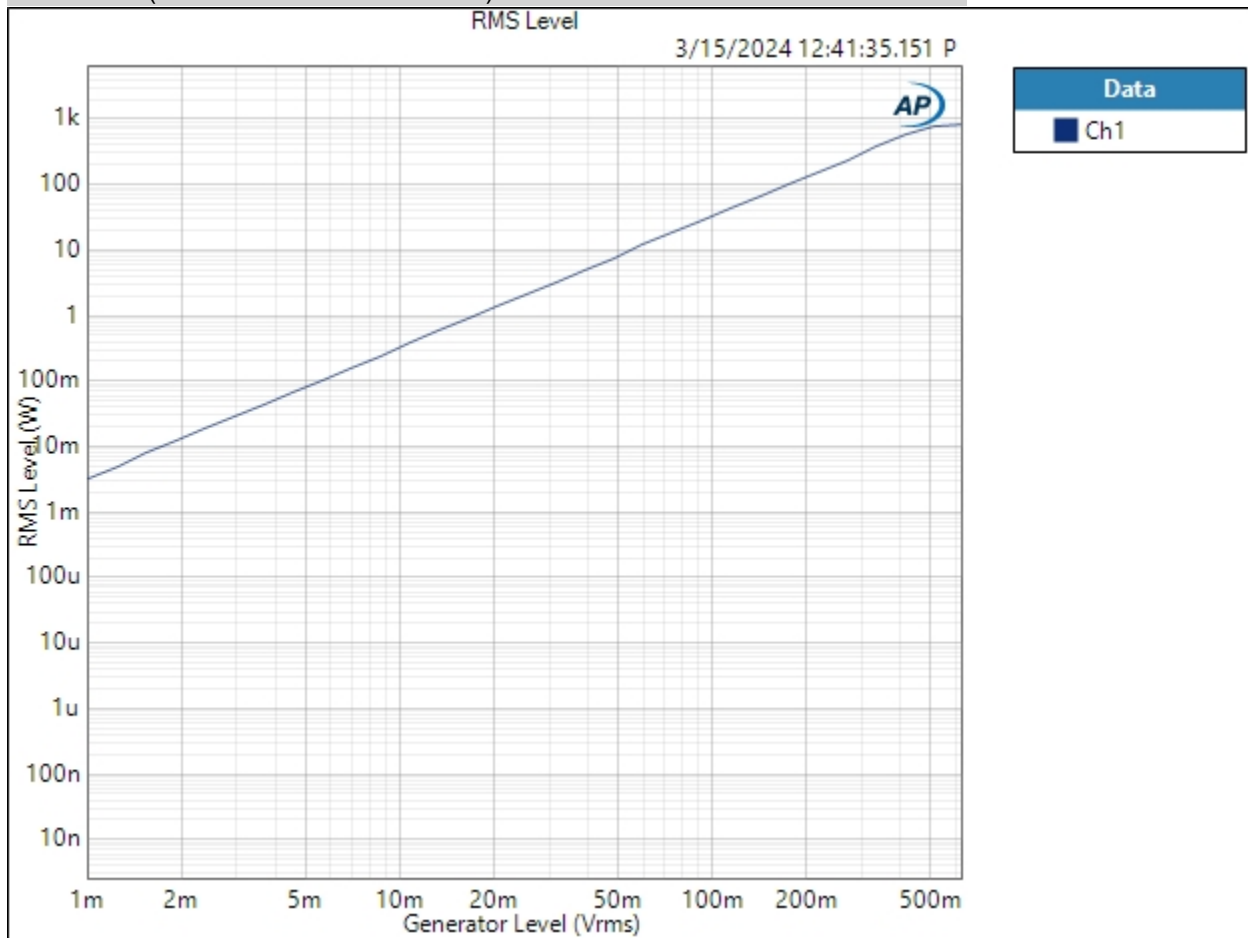
Low-pass Filter: Signal Path

Weighting Filter: A-wt.

Notch Tuning Mode: Generator Frequency

Measured 1 3/15/2024 12:41:35 PM

RMS Level (3/15/2024 12:41:35.151 PM)

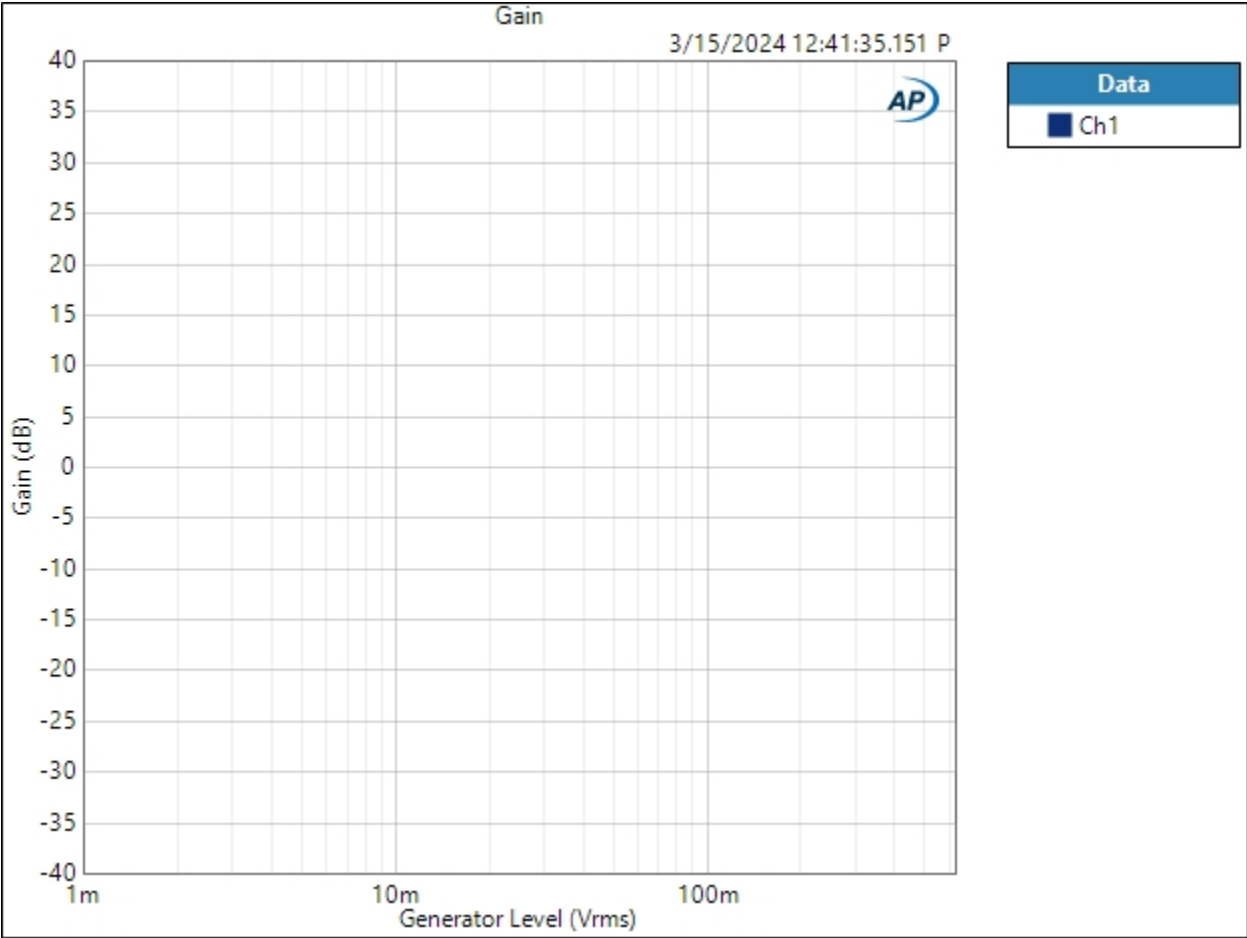


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Result: PASSED

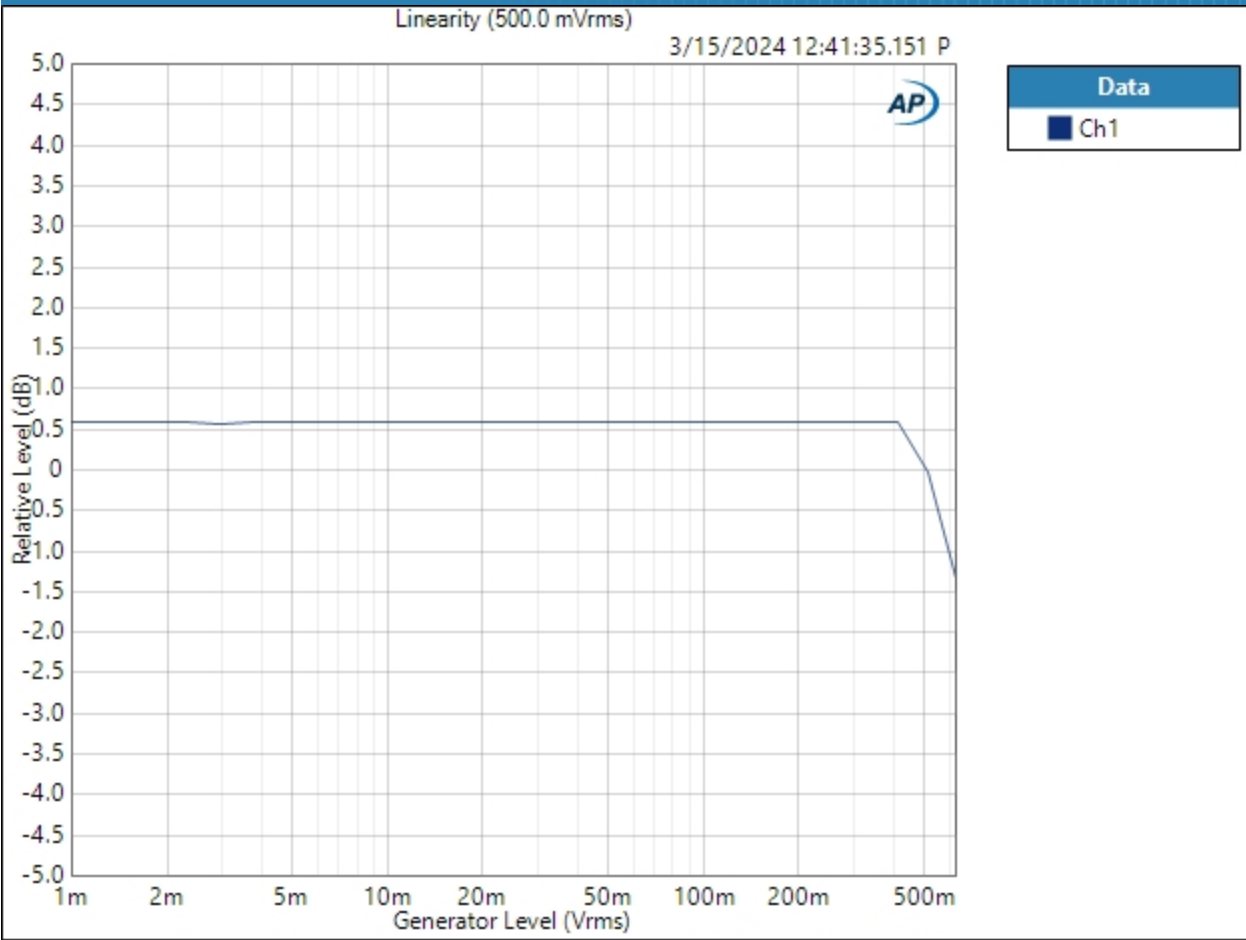
Gain (3/15/2024 12:41:35.151 PM)



Result: PASSED

Linearity (500.0 mVrms) (3/15/2024 12:41:35.151 PM)

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Linearity (500.0 mVrms) Parameters

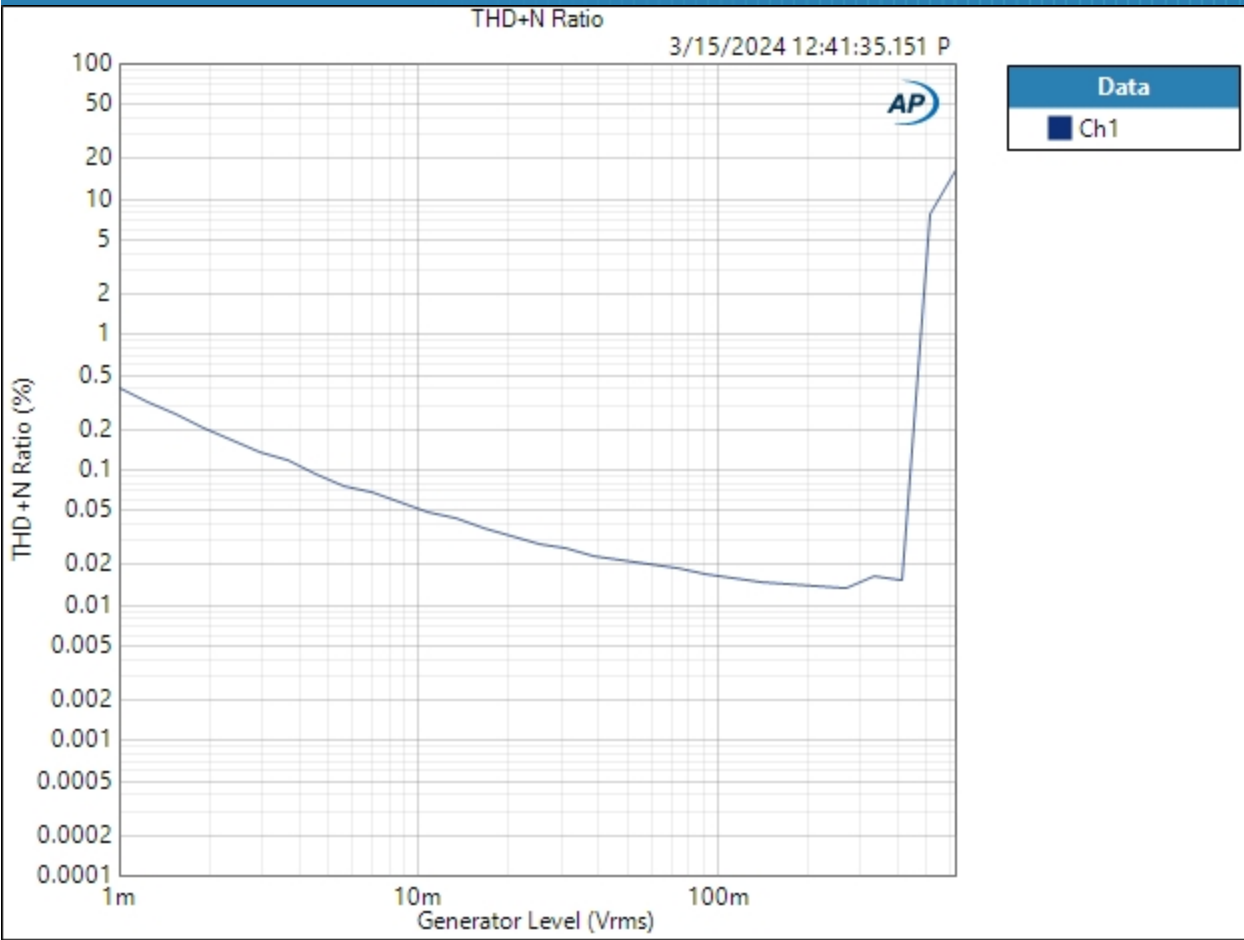
Mode: Normalized at Reference

Relative Level: 500.0 mVrms

Result: PASSED

THD+N Ratio (3/15/2024 12:41:35.151 PM)

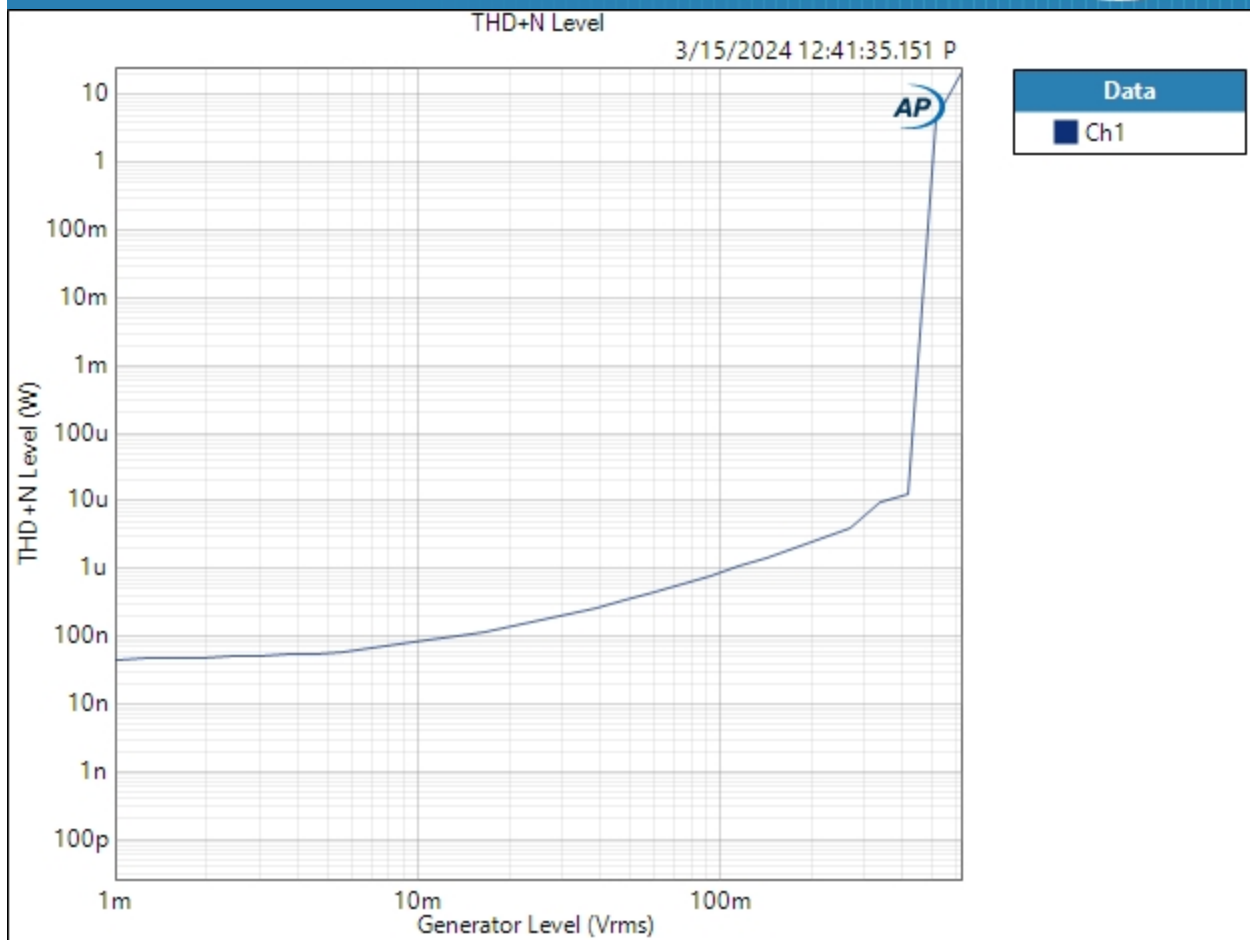
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Result: PASSED

THD+N Level (3/15/2024 12:41:35.151 PM)

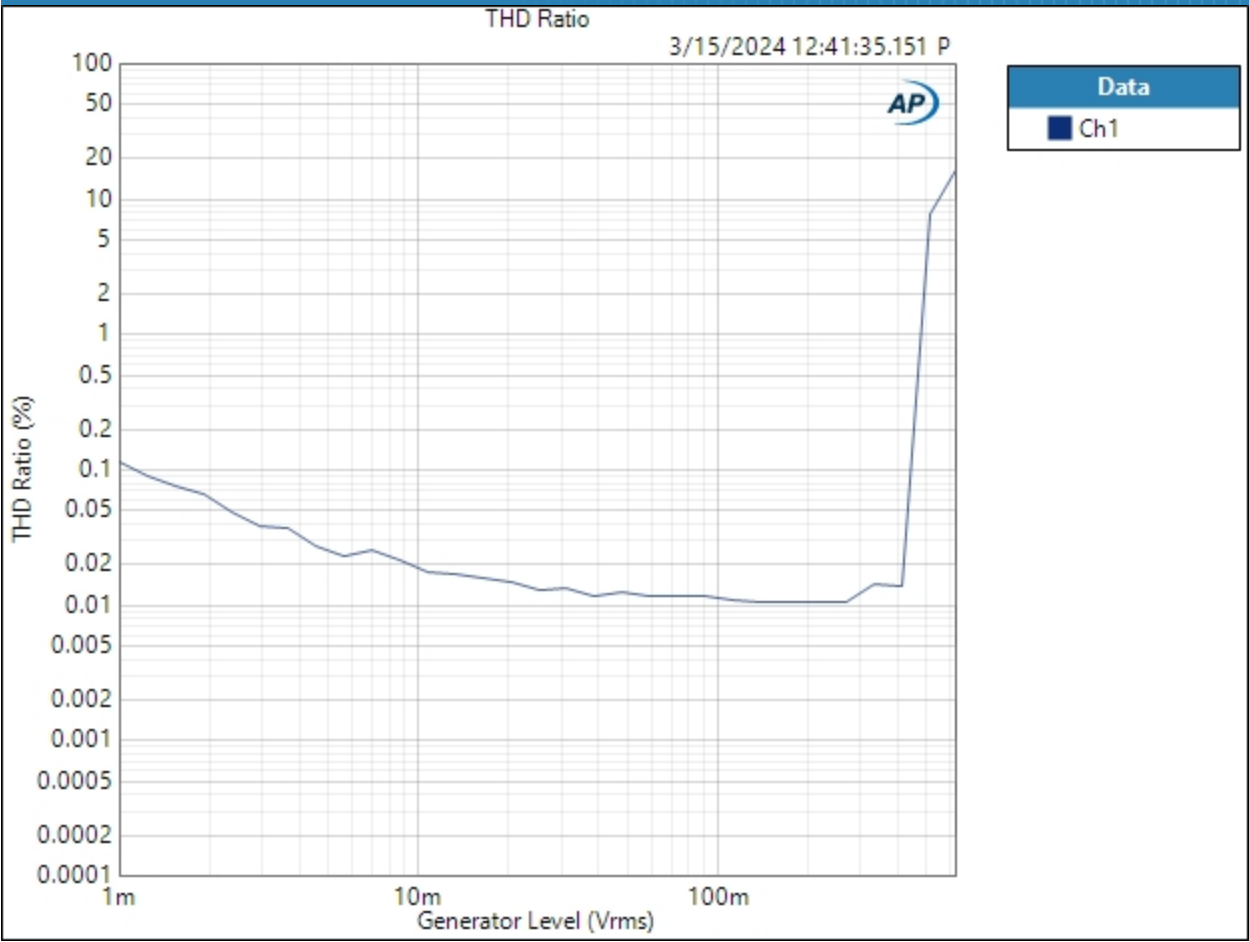
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Result: PASSED

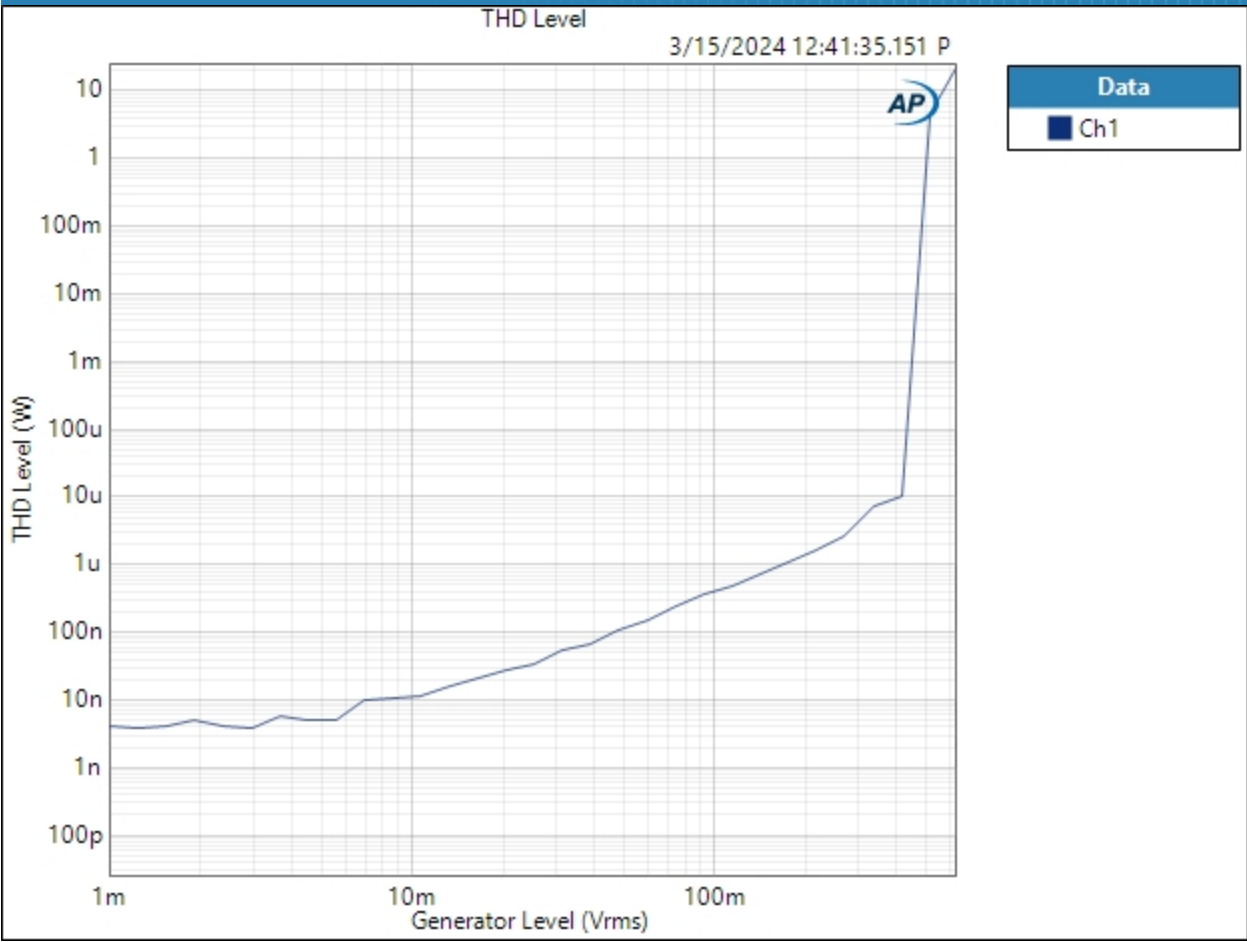
THD Ratio (3/15/2024 12:41:35.151 PM)

Sequence Report



Result: PASSED

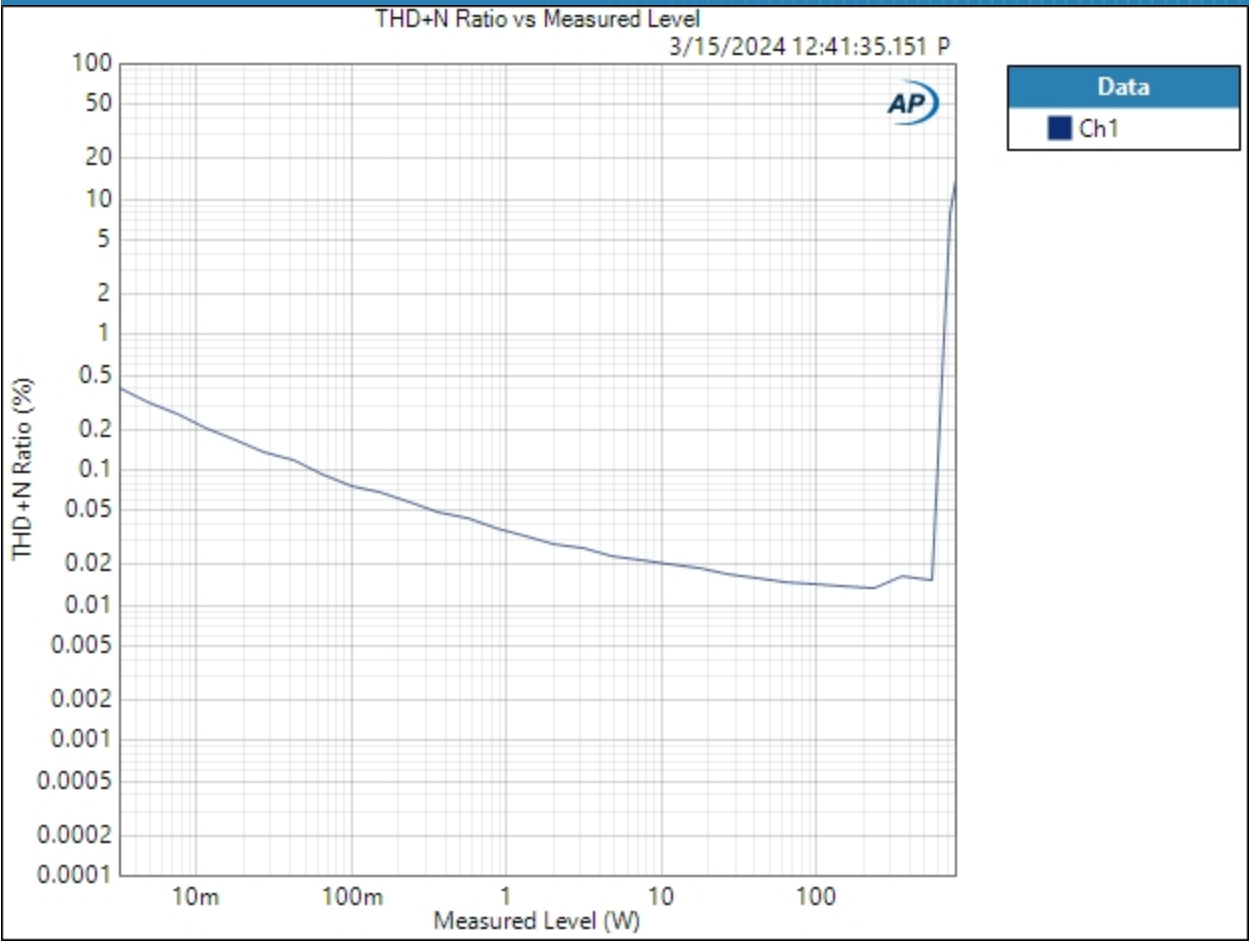
THD Level (3/15/2024 12:41:35.151 PM)



Result: PASSED

THD+N Ratio vs Measured Level (3/15/2024 12:41:35.151 PM)

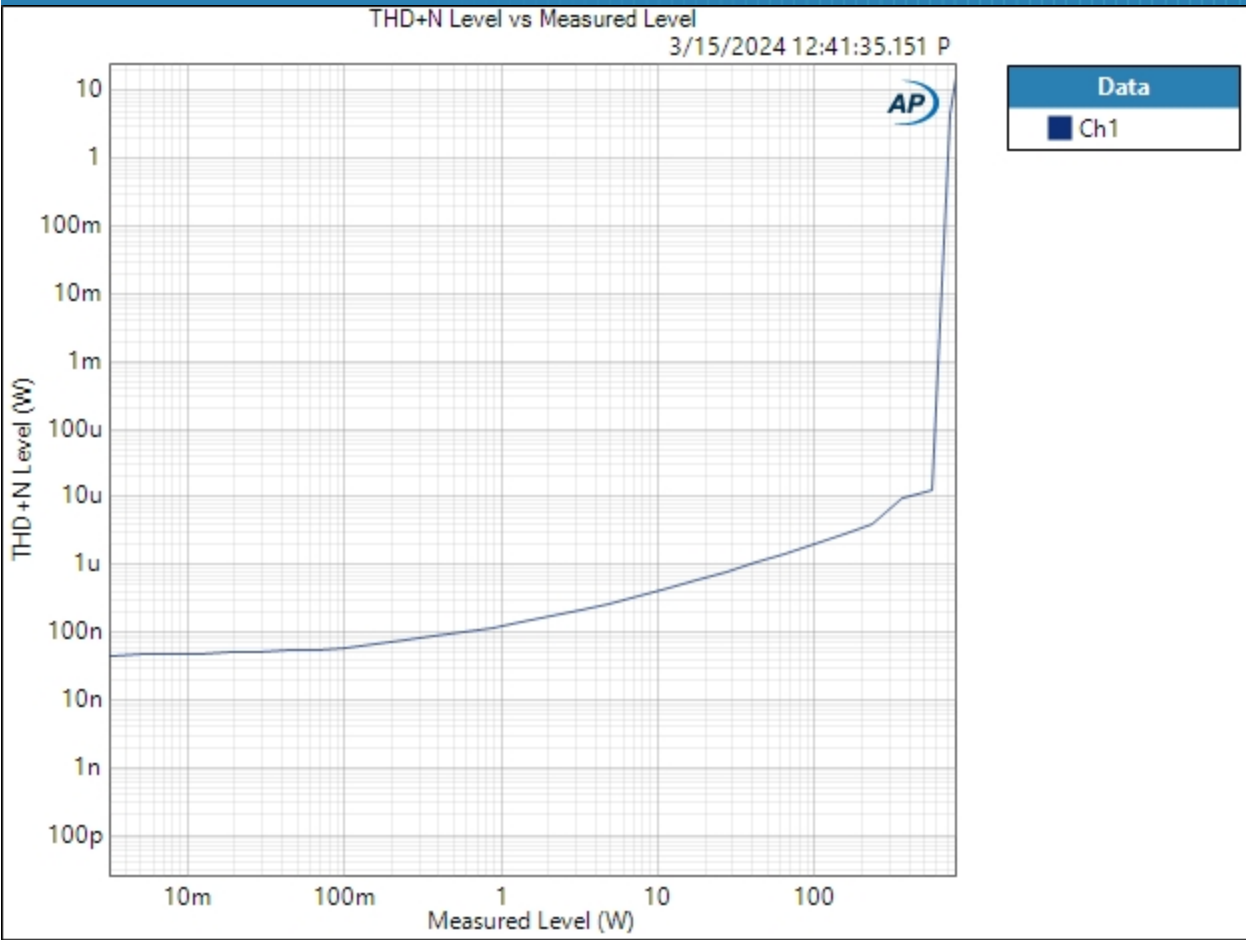
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Result: PASSED

THD+N Level vs Measured Level (3/15/2024 12:41:35.151 PM)

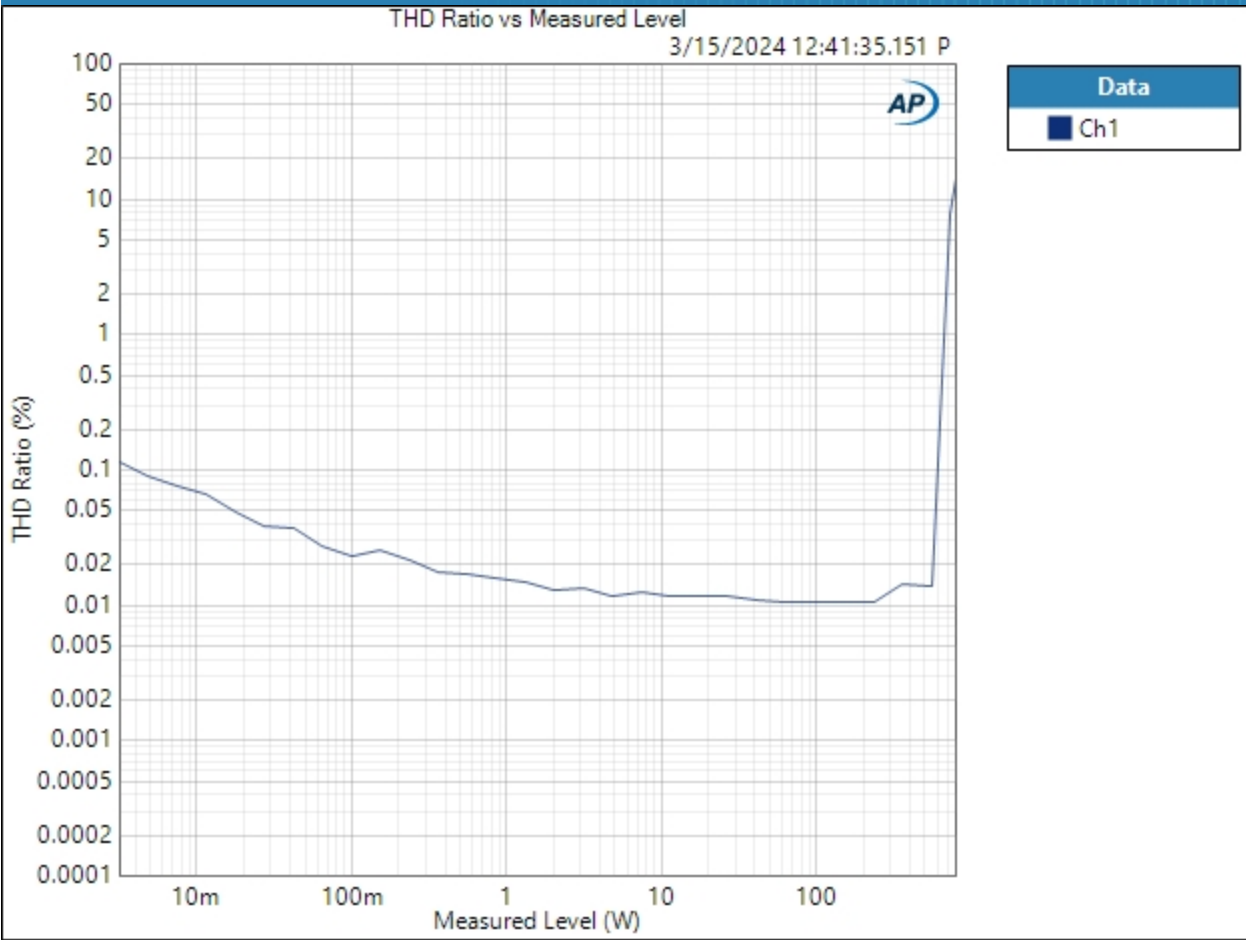
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Result: PASSED

THD Ratio vs Measured Level (3/15/2024 12:41:35.151 PM)

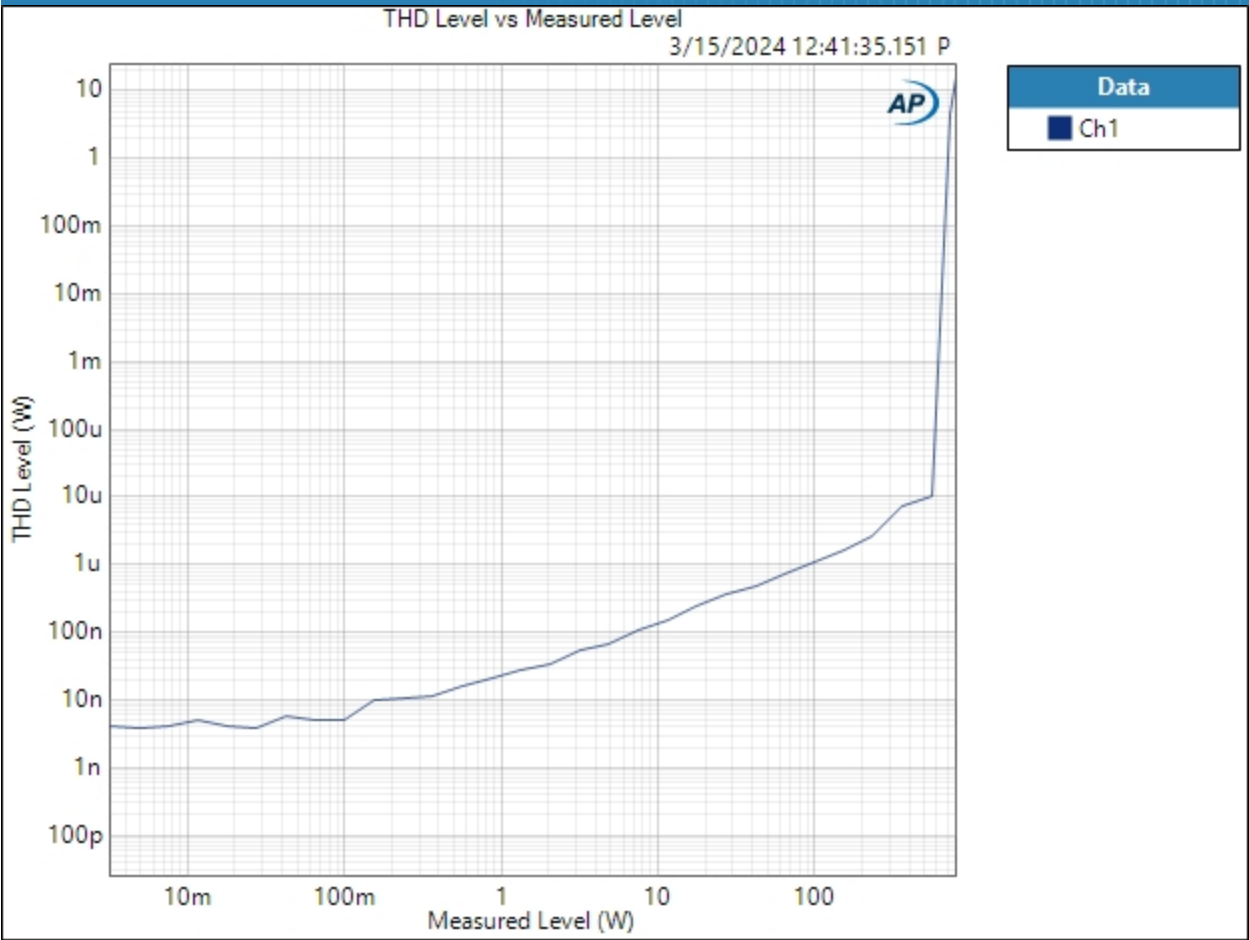
Sequence Report



Result: PASSED

THD Level vs Measured Level (3/15/2024 12:41:35.151 PM)

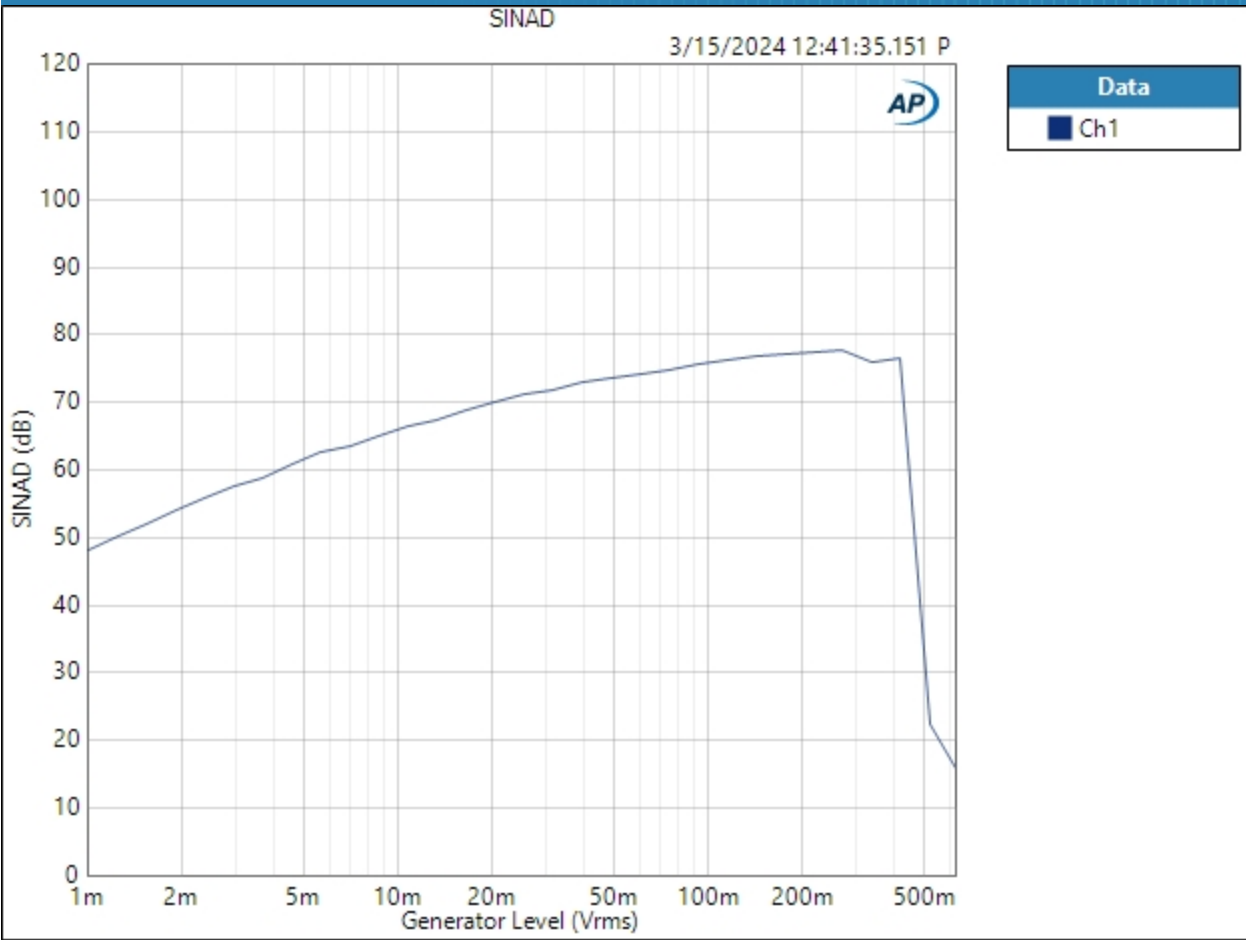
Sequence Report



Result: PASSED

SINAD (3/15/2024 12:41:35.151 PM)

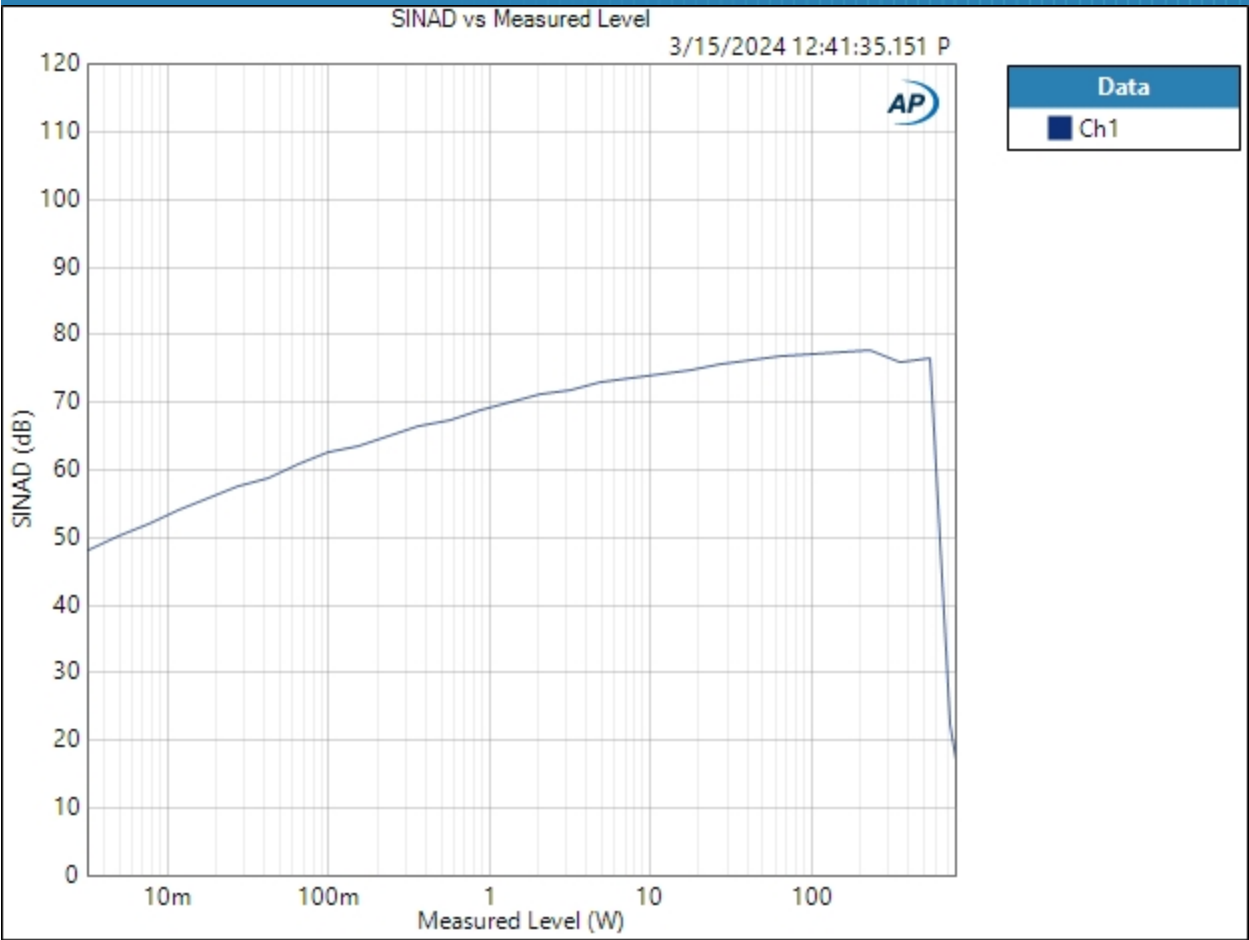
Sequence Report



Result: PASSED

SINAD vs Measured Level (3/15/2024 12:41:35.151 PM)

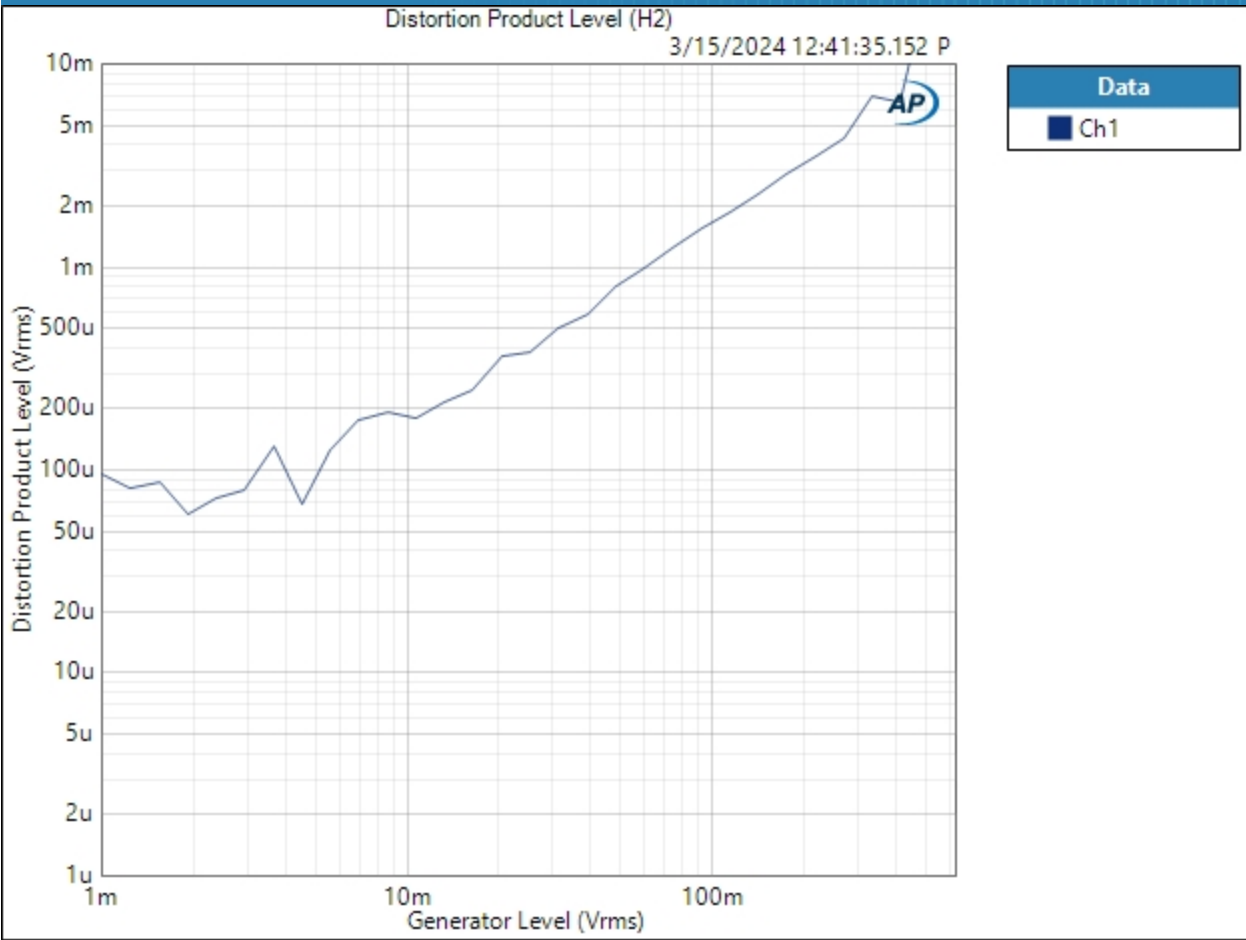
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Result: PASSED

Distortion Product Level (H2) (3/15/2024 12:41:35.152 PM)

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Distortion Product Level (H2) Parameters

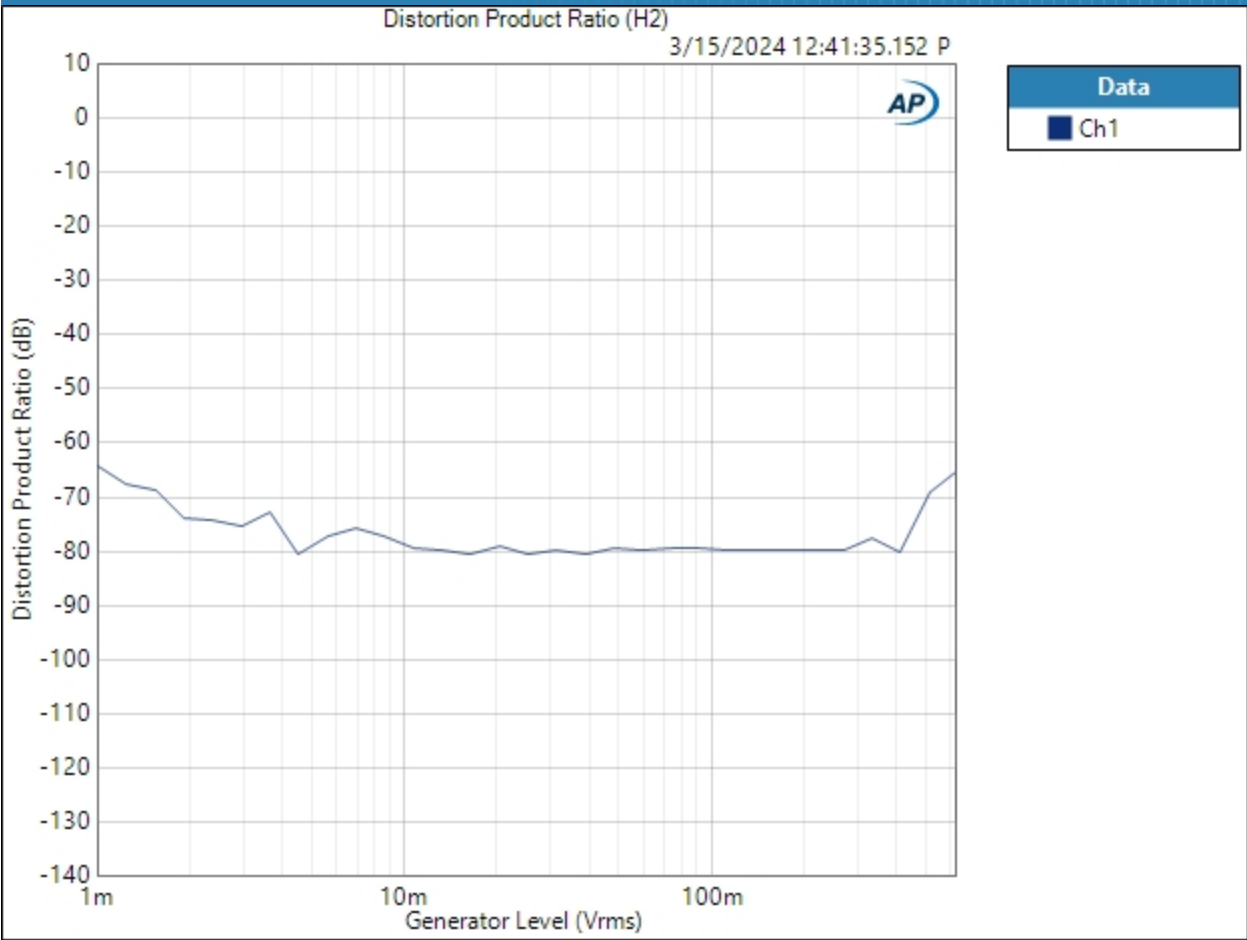
Harmonics: Single Harmonic

Harmonic Number: 2

Result: PASSED

Distortion Product Ratio (H2) (3/15/2024 12:41:35.152 PM)

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Distortion Product Ratio (H2) Parameters

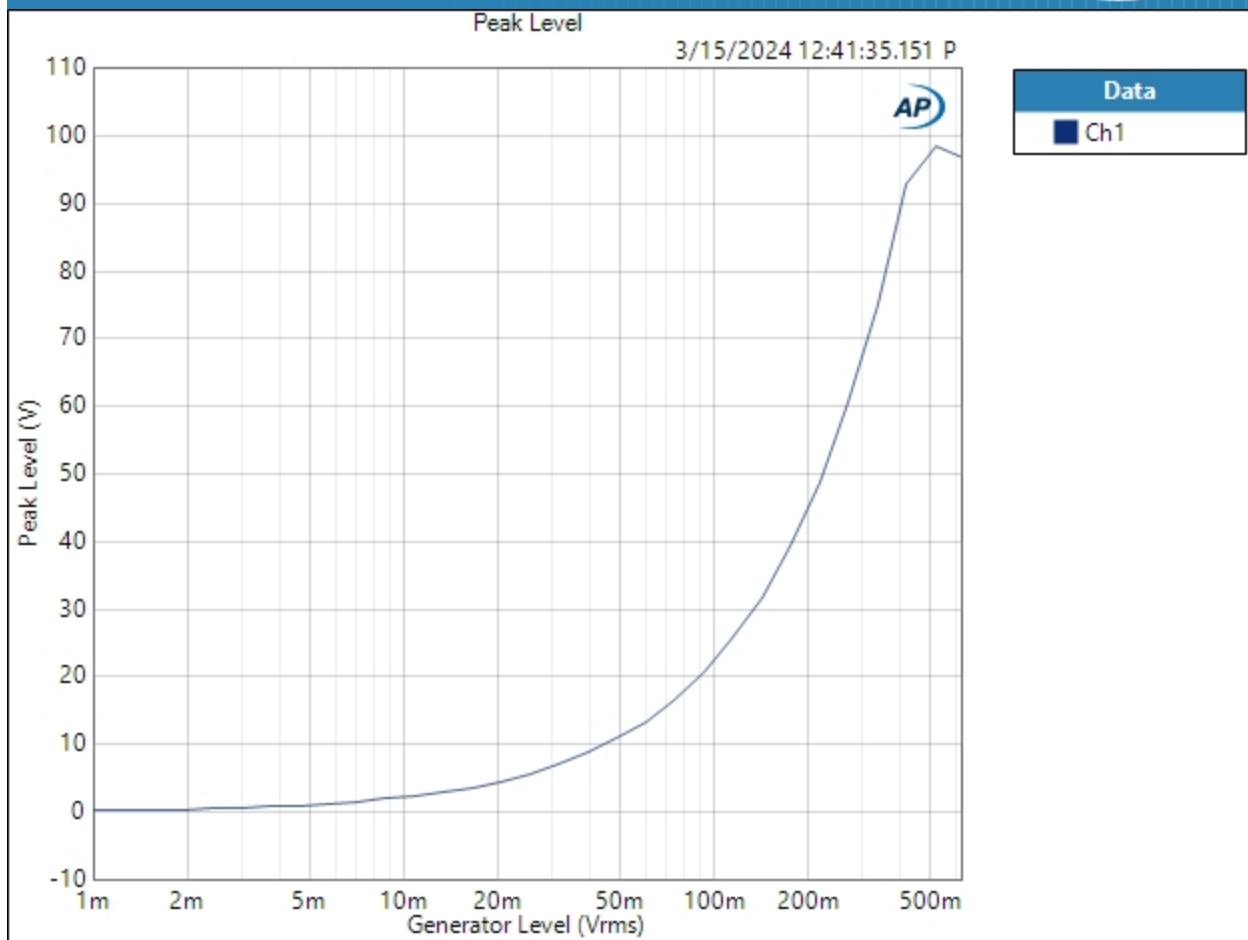
Harmonics: Single Harmonic

Harmonic Number: 2

Result: PASSED

Peak Level (3/15/2024 12:41:35.151 PM)

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Result: PASSED