

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 Unbalanced
Channels:	2
Source Impedance:	50 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.

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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 12:39:03.804 PM)

Ch1 499.7 W
Ch2 4.235 nW

Gain (3/15/2024 12:39:03.804 PM)

Ch1 43.977 dB
Ch2 -66.741 dB

Peak Level (3/15/2024 12:39:03.804 PM)

Ch1 89.43 V
Ch2 665.9 μ V

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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 12:39:07.482 PM)

Ch1 0.016899 %
 Ch2 2.156354 %

THD+N Level (3/15/2024 12:39:07.482 PM)

Ch1 14.28 uW
 Ch2 1.968 pW

THD Ratio (3/15/2024 12:39:07.482 PM)

Ch1 0.016437 %
 Ch2 0.306780 %

THD Level (3/15/2024 12:39:07.482 PM)

Ch1 13.51 uW
 Ch2 3.981e-14 W

Noise Ratio (3/15/2024 12:39:07.482 PM)

Ch1 0.002620 %
 Ch2 2.139436 %

Noise Level (3/15/2024 12:39:07.482 PM)

Ch1 343.3 nW
 Ch2 1.936 pW

Distortion Product Ratio (3/15/2024 12:39:07.482 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	-79.95	-79.45	-90.81	-84.79	-103.59	-97.44	-99.40	-92.73	-104.19
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.03	-51.42	-63.85	-61.93	-69.00	-64.71	-75.07	-67.89	-67.87	-75.73

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB

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Channel: Ch1

Distortion Product Level (3/15/2024 12:39:07.482 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	500.0	5.060 u	5.673 u	415.4 n	1.661 u	21.88 n	90.19 n	57.36 n	266.9 n	19.05 n
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	4.201 n	3.047e-14	1.745e-15	2.711e-15	5.321e-16	1.43e-15	1.317e-16	6.878e-16	6.9e-16	1.131e-16

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

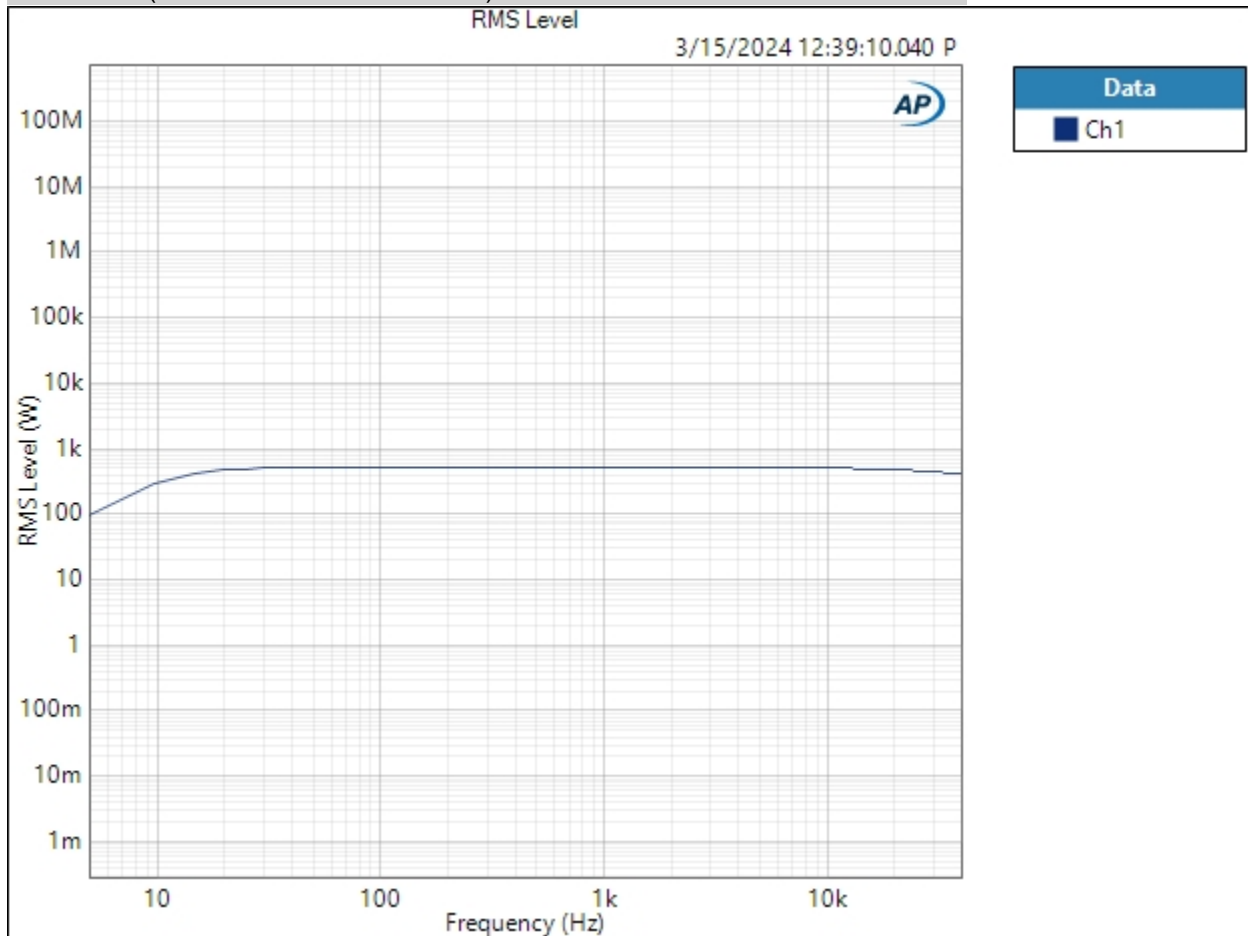
Sweep: 350.0 ms

Extend Acquisition By: 50.00 ms

Secondary Source: None

Measured 1 3/15/2024 12:39:10 PM

RMS Level (3/15/2024 12:39:10.040 PM)

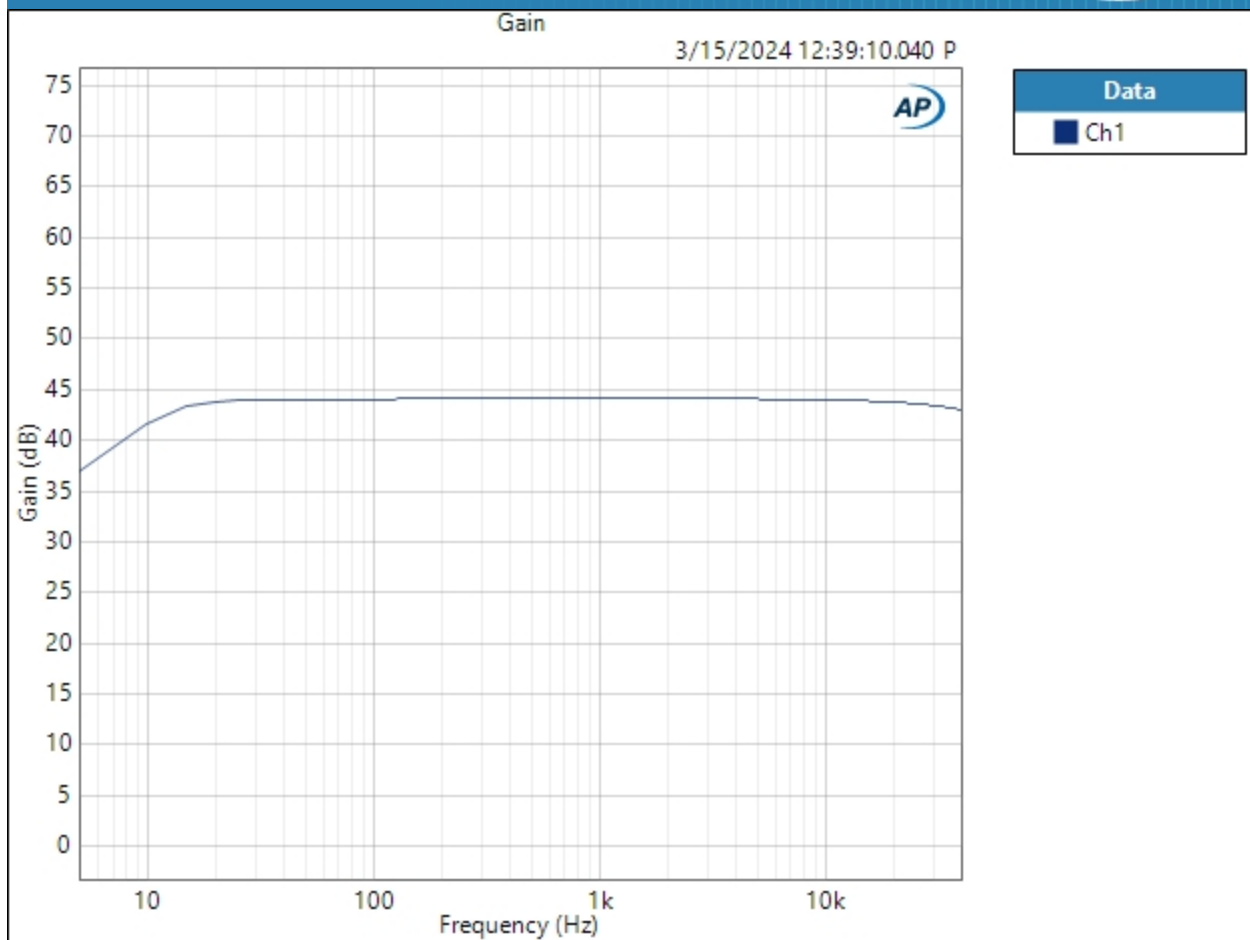


Result: PASSED

Gain (3/15/2024 12:39:10.040 PM)

3/15/2024 12:39 PM

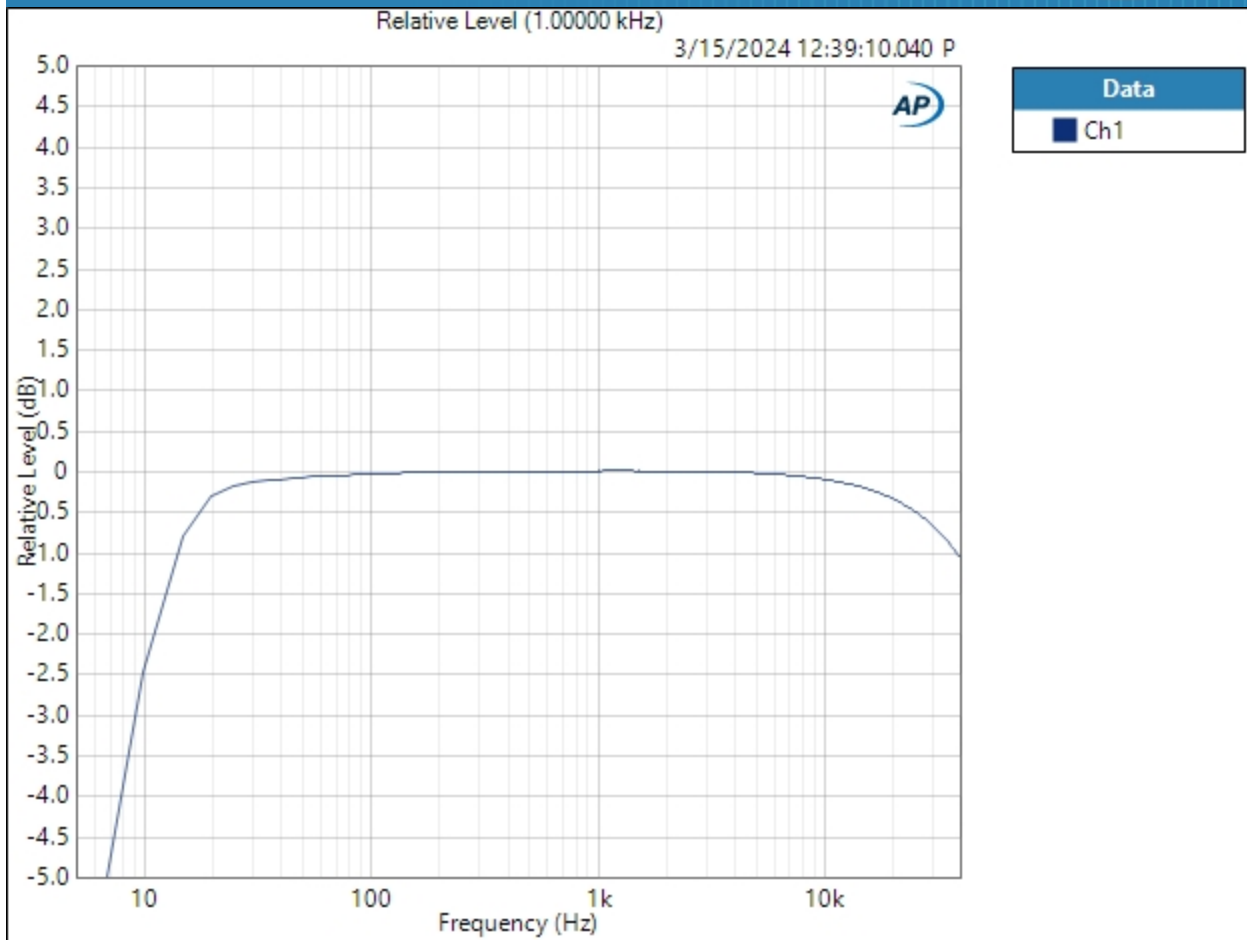
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Result: PASSED

Relative Level (1.00000 kHz) (3/15/2024 12:39:10.040 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 12:39:10.040 PM)

Ch1 ± 0.173 dB

Ch2 ± 29.834 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 12:39:13.577 PM)

Ch1 105.097 dB

Ch2 33.782 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

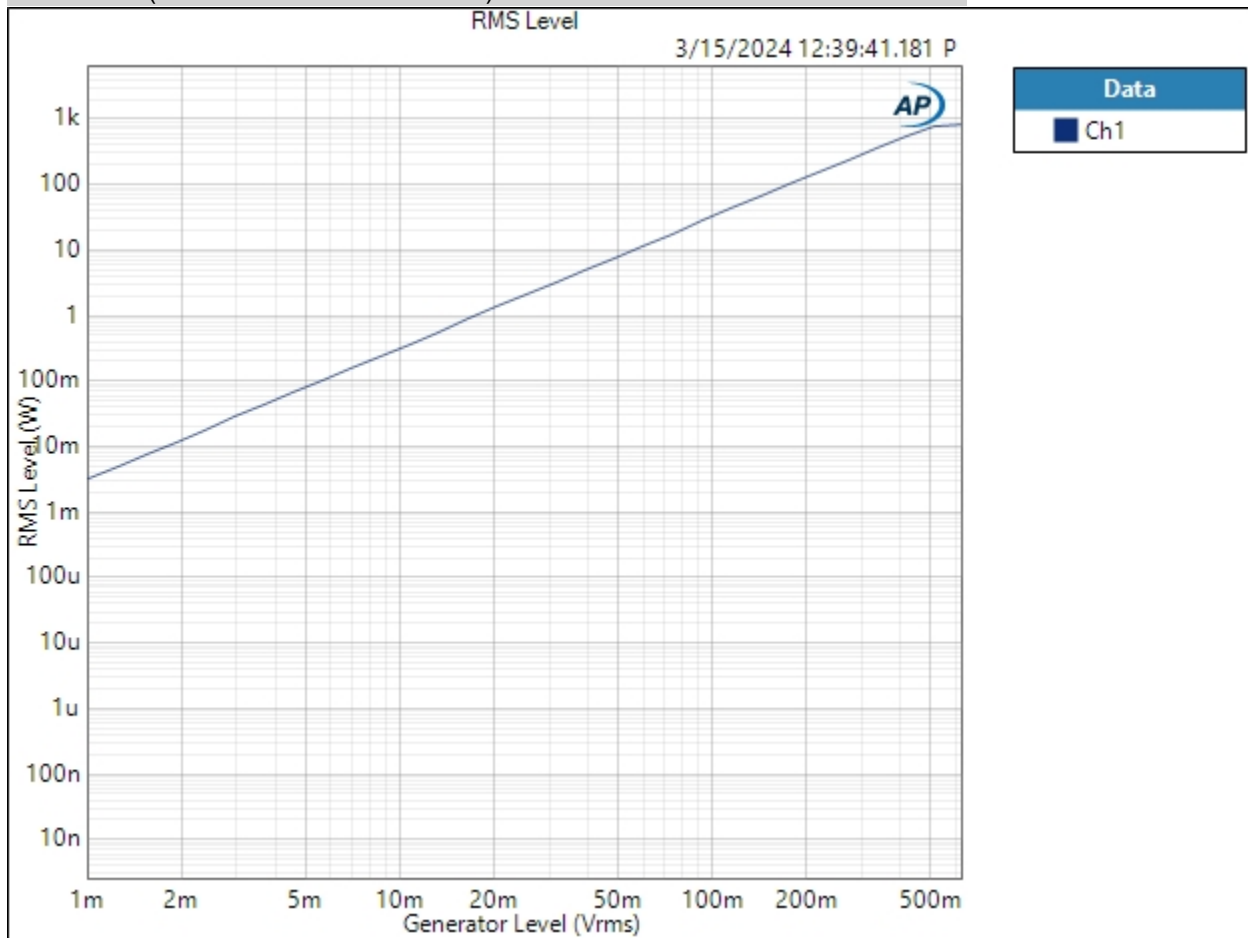
Low-pass Filter: Signal Path

Weighting Filter: A-wt.

Notch Tuning Mode: Generator Frequency

Measured 1 3/15/2024 12:39:41 PM

RMS Level (3/15/2024 12:39:41.181 PM)

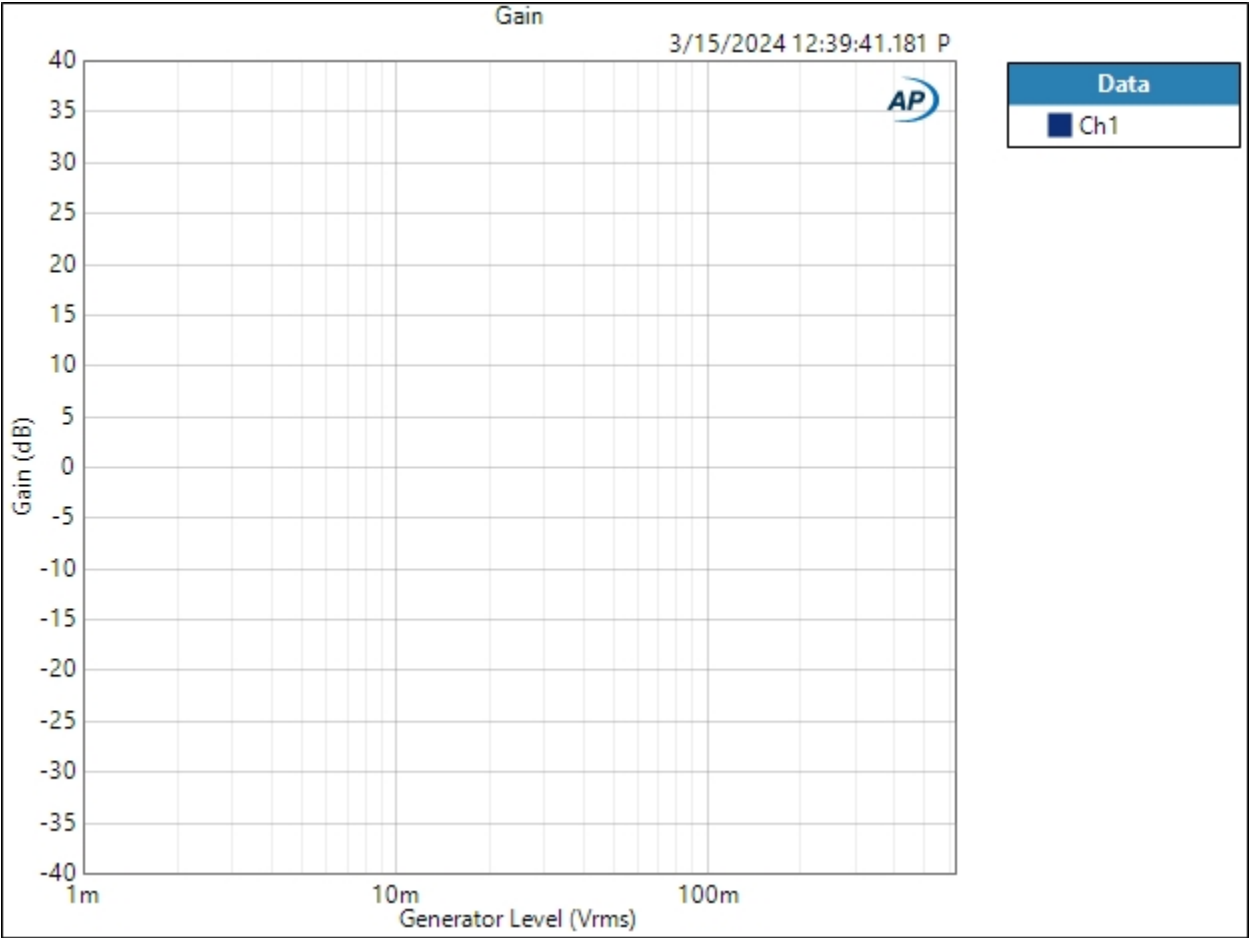


Sequence Report



Result: PASSED

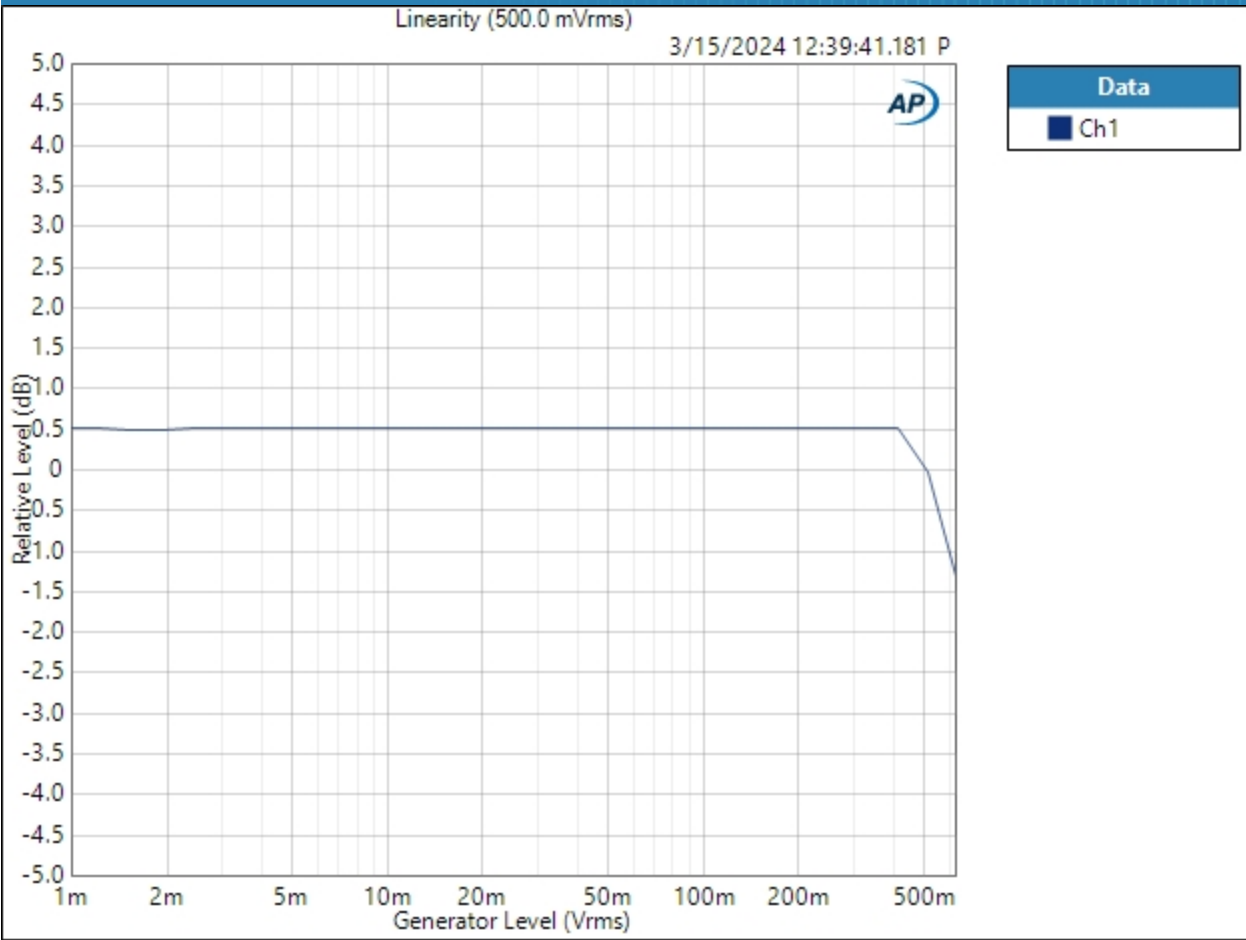
Gain (3/15/2024 12:39:41.181 PM)



Result: PASSED

Linearity (500.0 mVrms) (3/15/2024 12:39:41.181 PM)

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Linearity (500.0 mVrms) Parameters

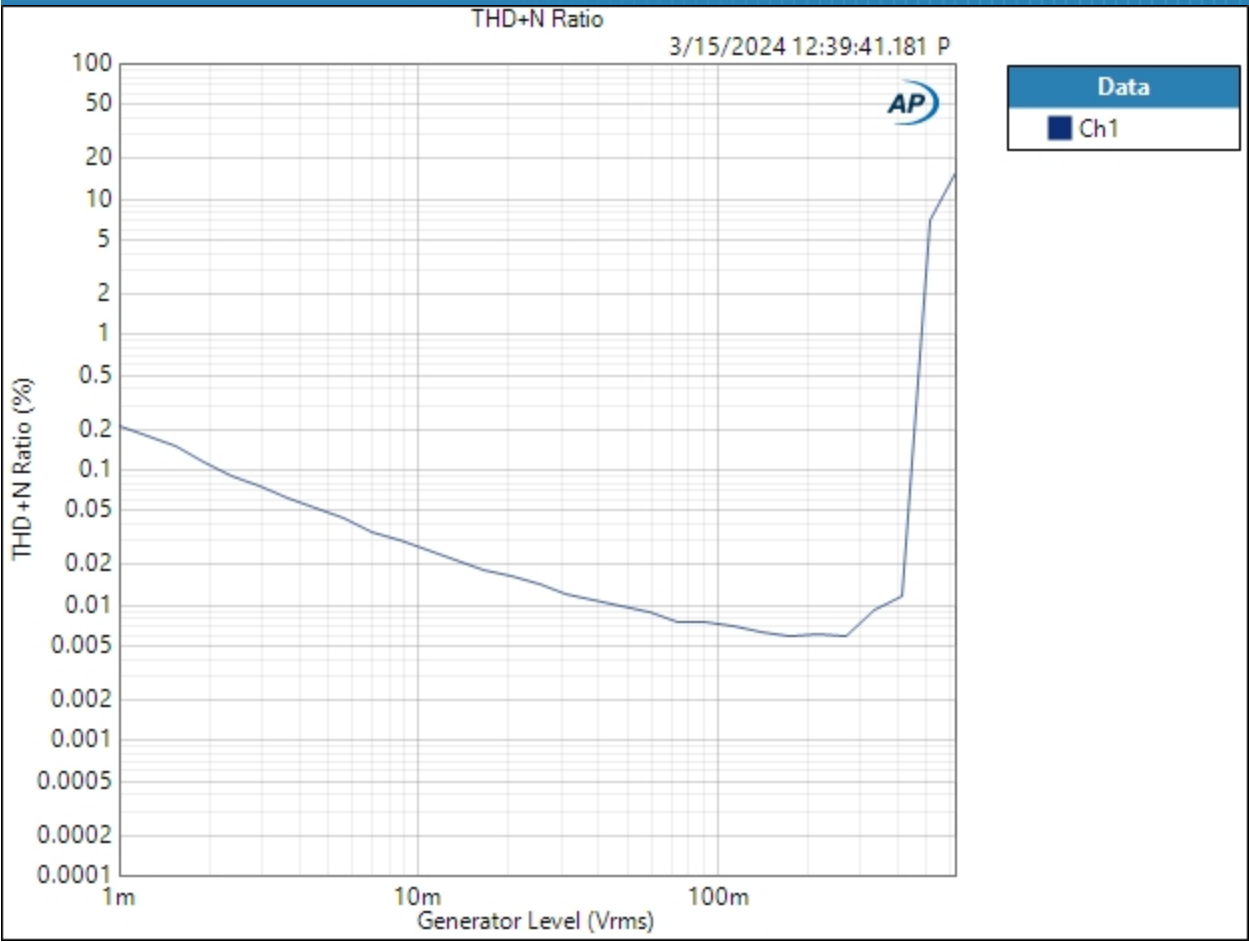
Mode: Normalized at Reference

Relative Level: 500.0 mVrms

Result: PASSED

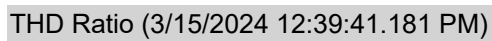
THD+N Ratio (3/15/2024 12:39:41.181 PM)

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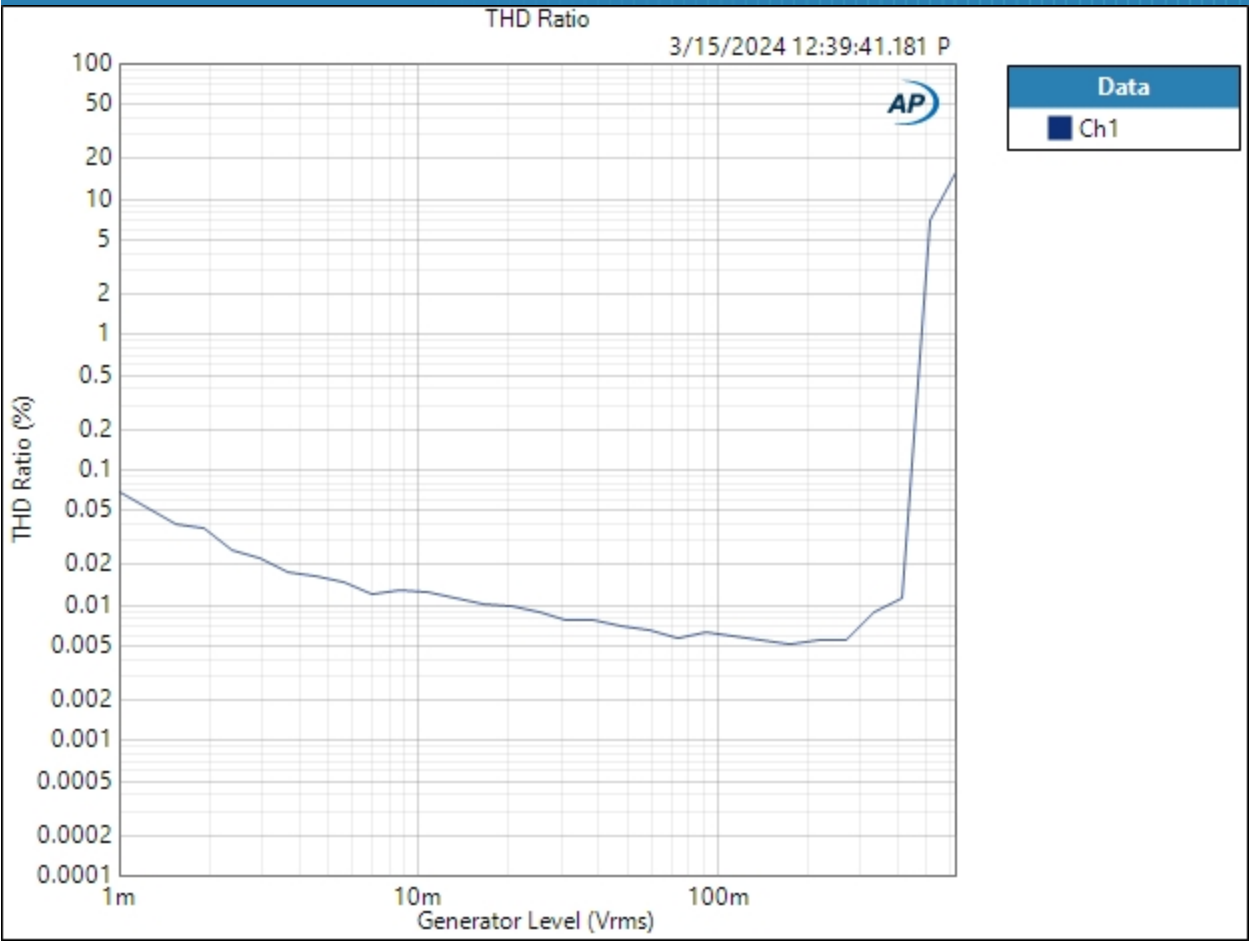


Result: PASSED

THD+N Level (3/15/2024 12:39:41.181 PM)



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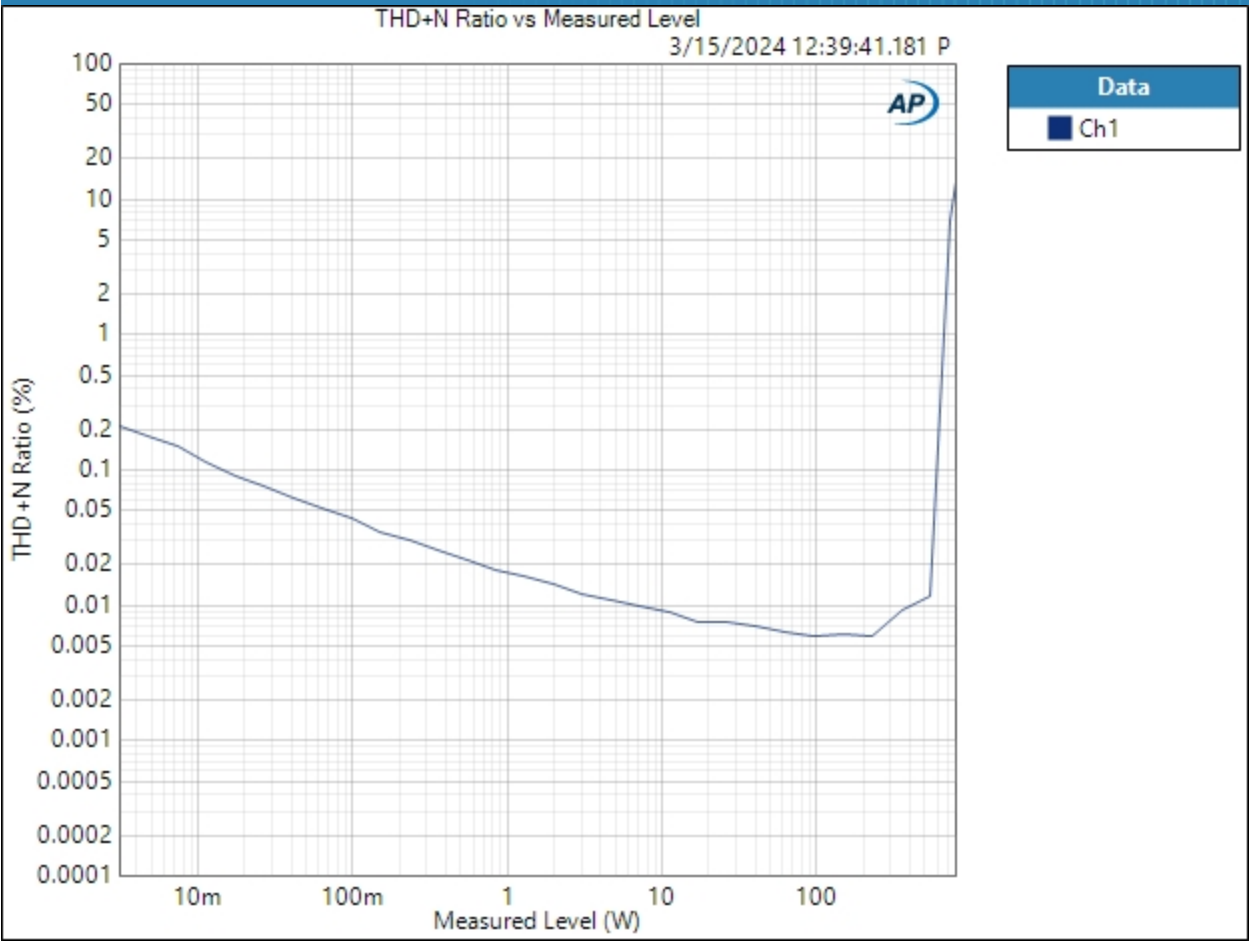


Result: PASSED

THD Level (3/15/2024 12:39:41.181 PM)



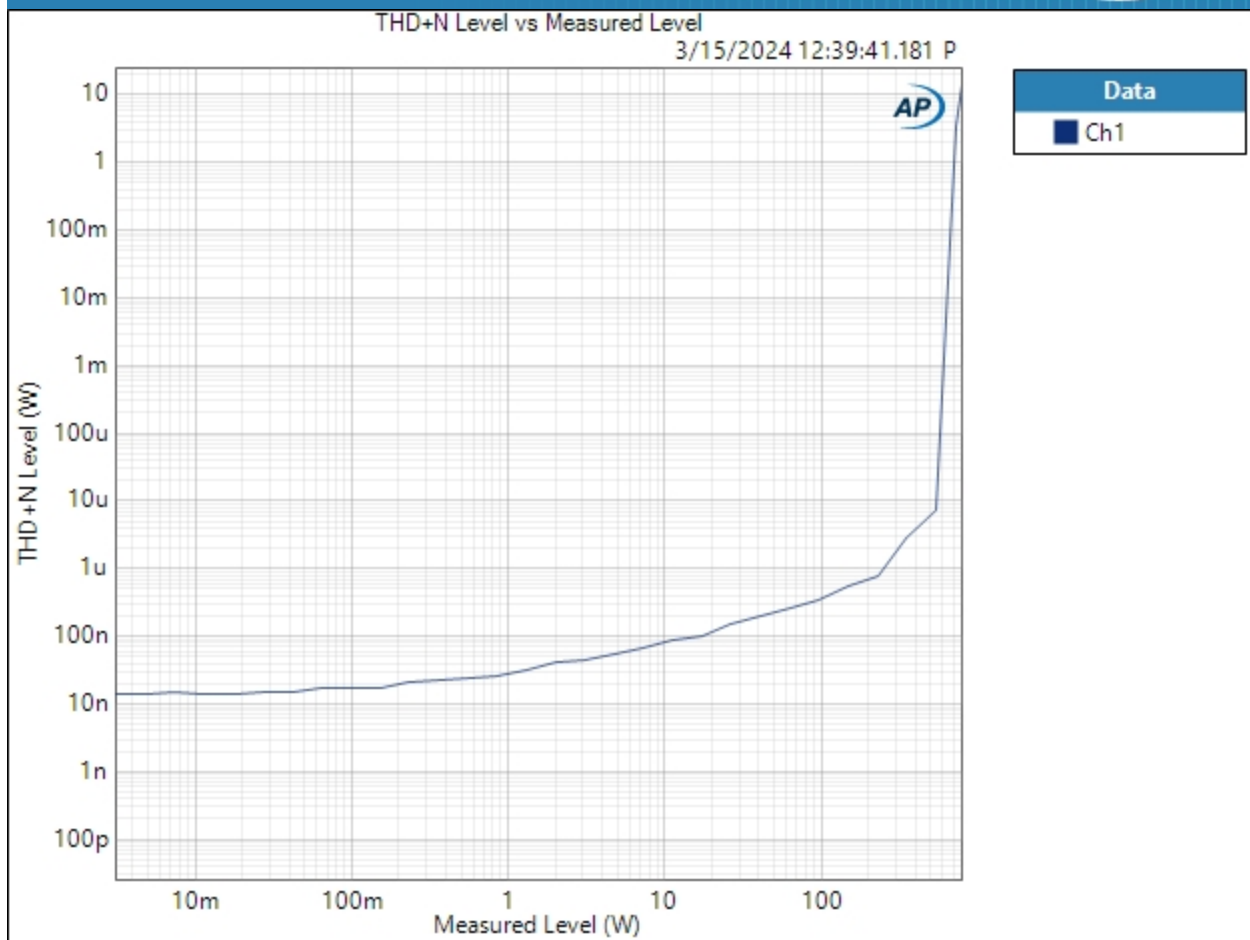
Sequence Report



Result: PASSED

THD+N Level vs Measured Level (3/15/2024 12:39:41.181 PM)

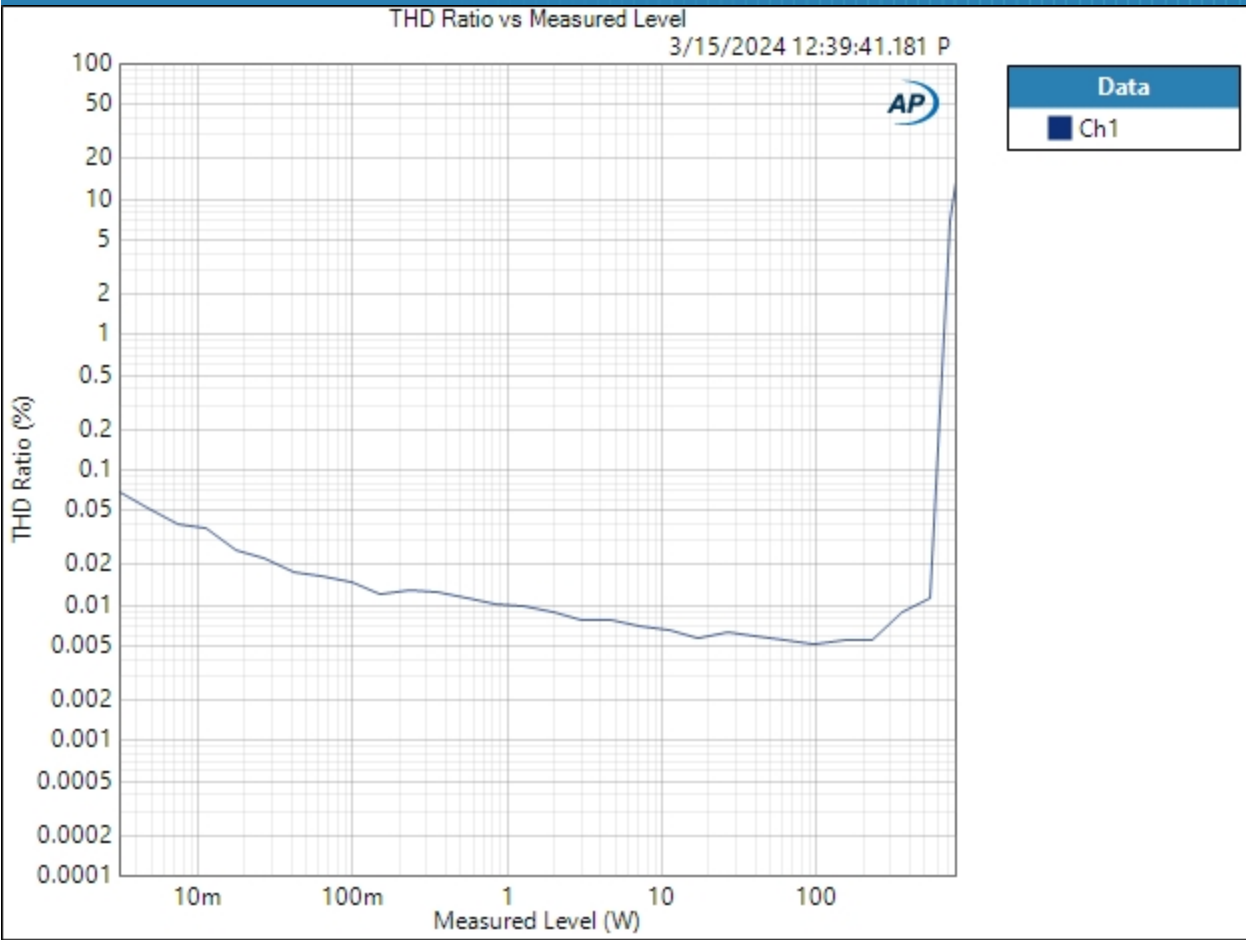
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Result: PASSED

THD Ratio vs Measured Level (3/15/2024 12:39:41.181 PM)

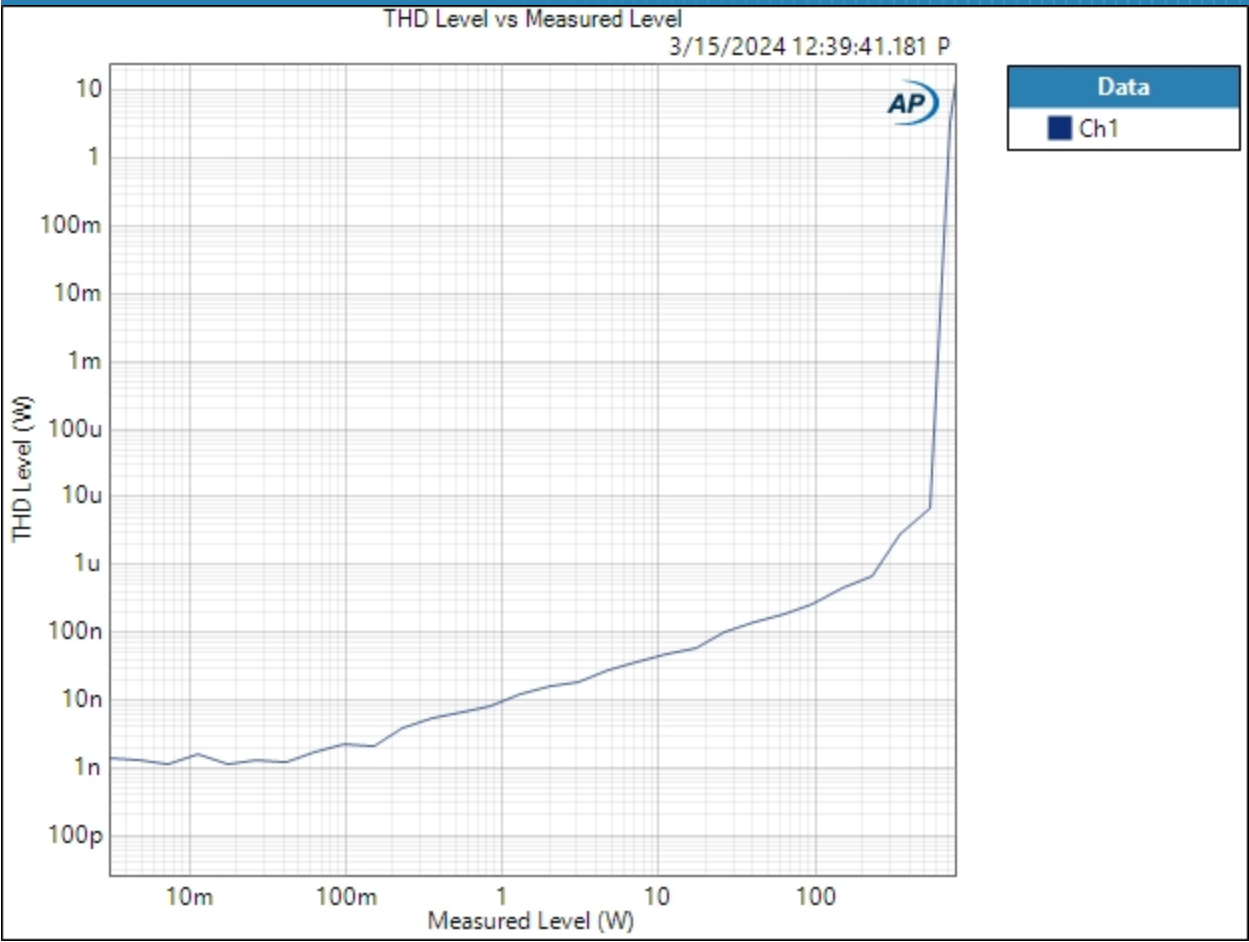
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Result: PASSED

THD Level vs Measured Level (3/15/2024 12:39:41.181 PM)

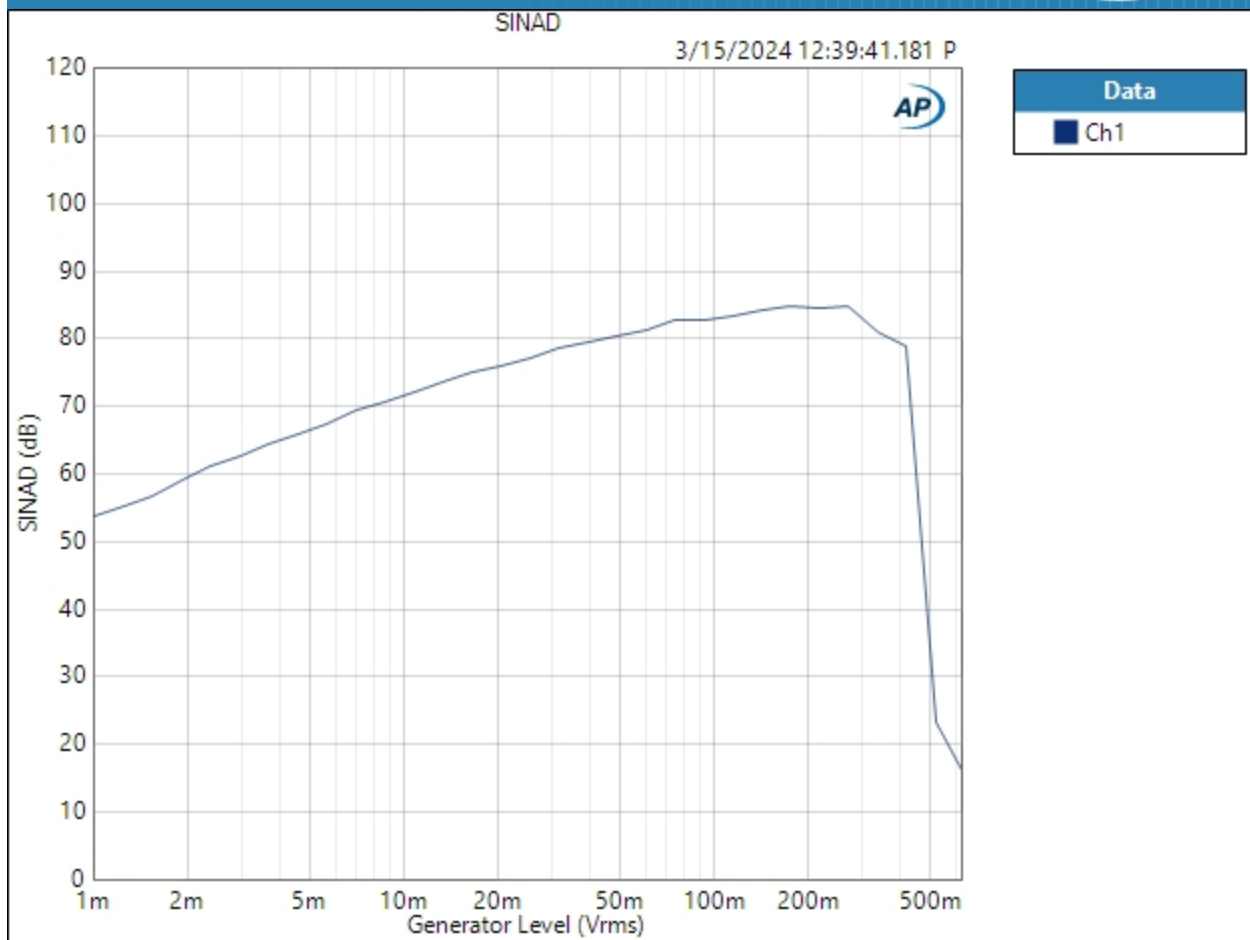
Sequence Report



Result: PASSED

SINAD (3/15/2024 12:39:41.181 PM)

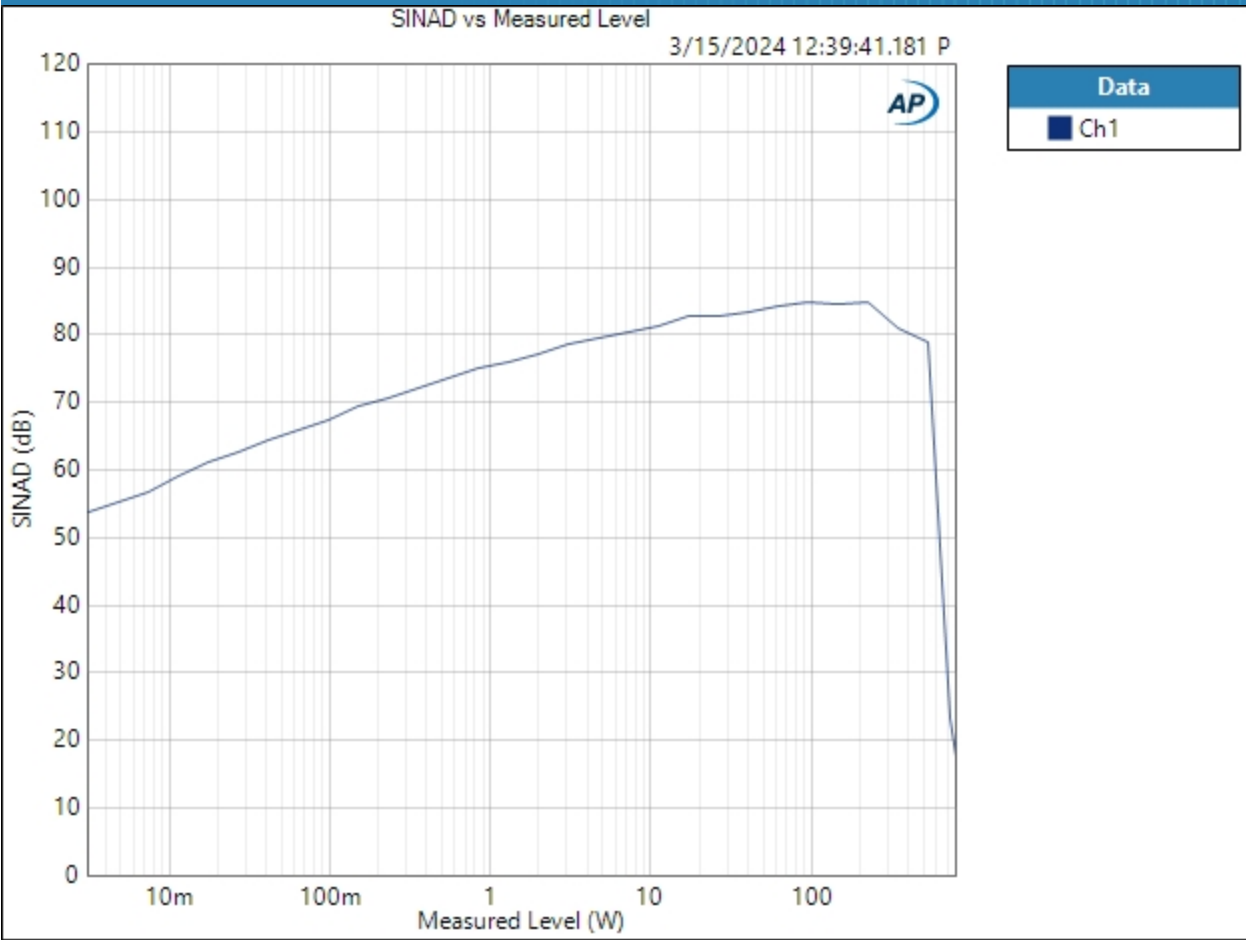
Sequence Report



Result: PASSED

SINAD vs Measured Level (3/15/2024 12:39:41.181 PM)

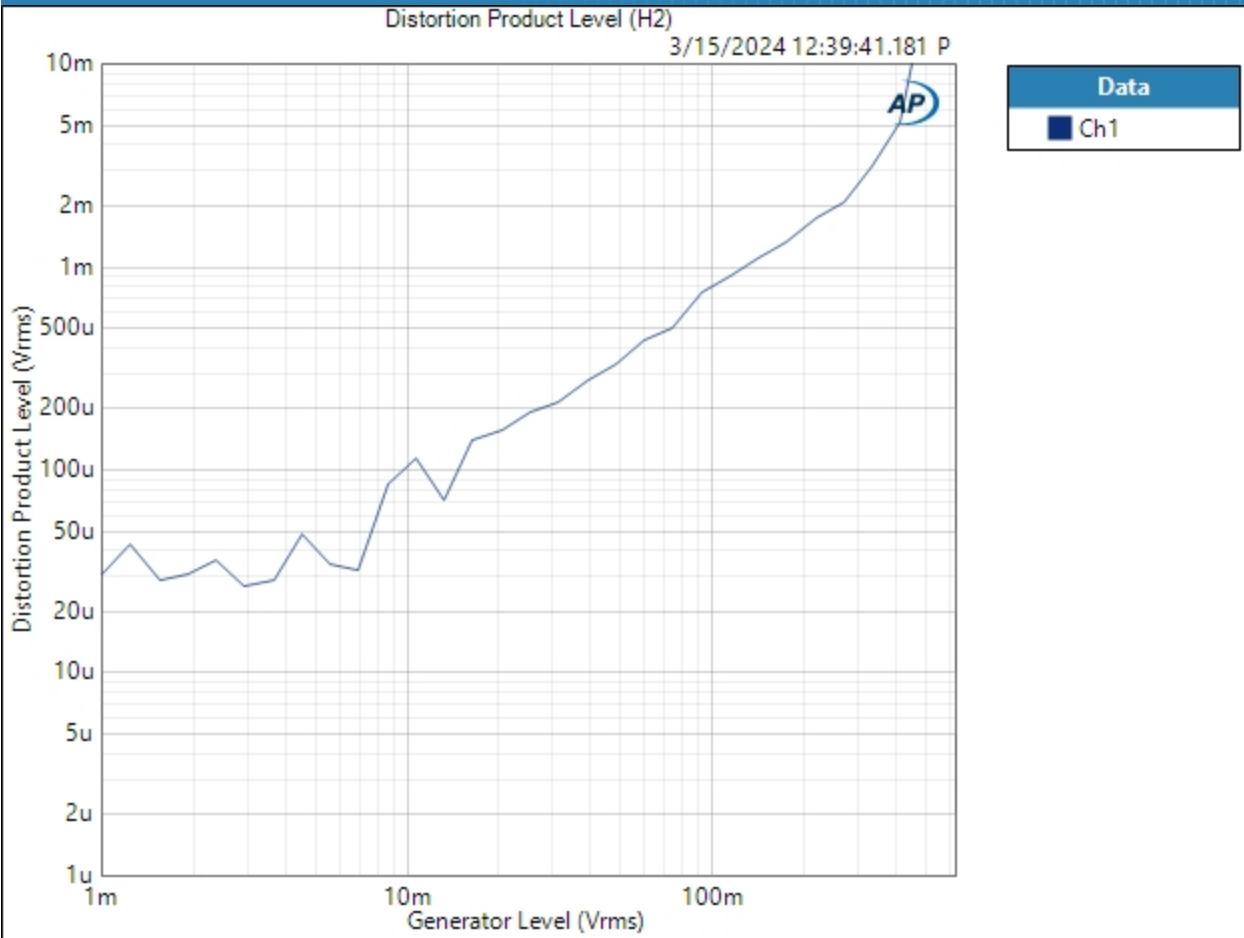
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Result: PASSED

Distortion Product Level (H2) (3/15/2024 12:39:41.181 PM)

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Distortion Product Level (H2) Parameters

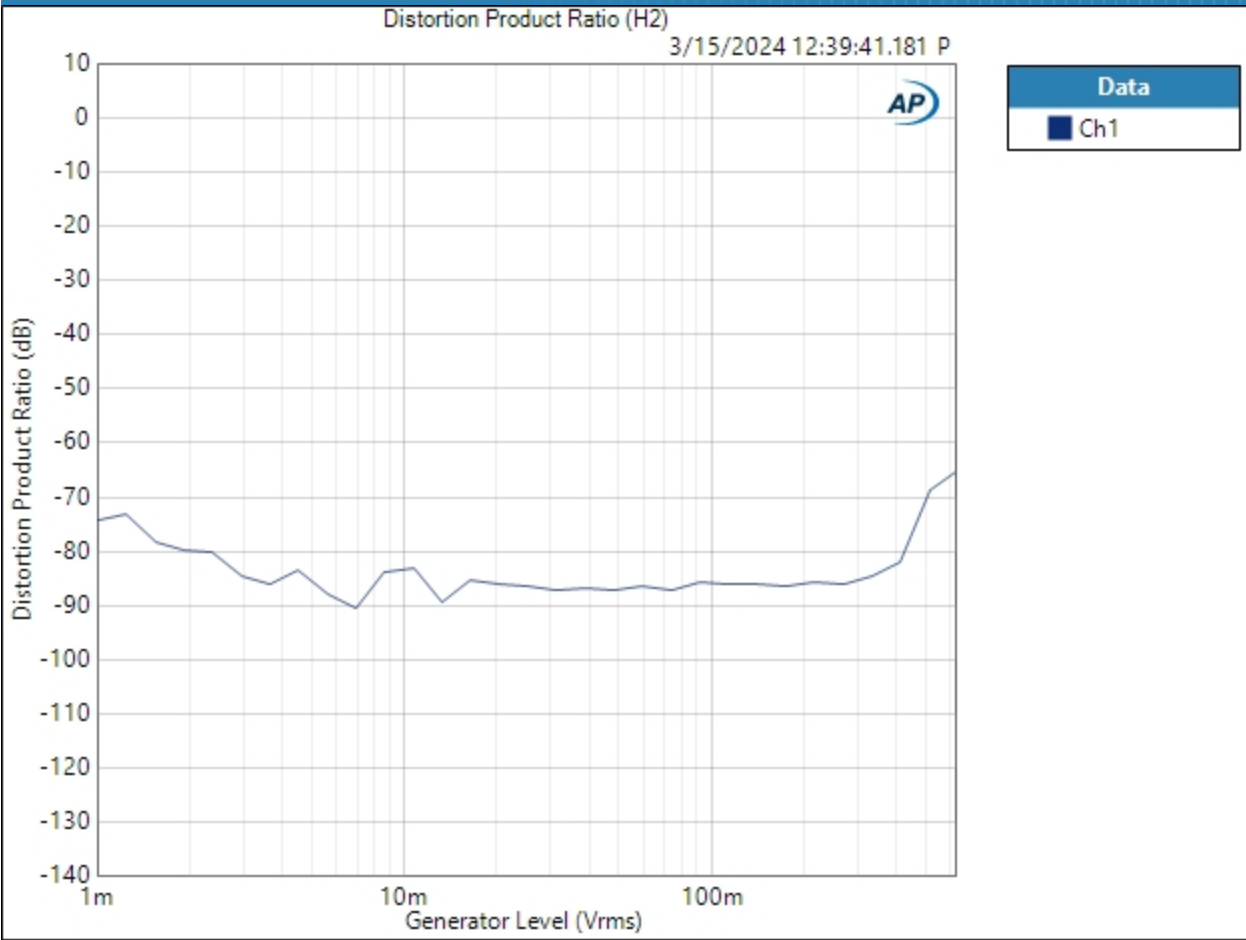
Harmonics: Single Harmonic

Harmonic Number: 2

Result: PASSED

Distortion Product Ratio (H2) (3/15/2024 12:39:41.181 PM)

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Distortion Product Ratio (H2) Parameters

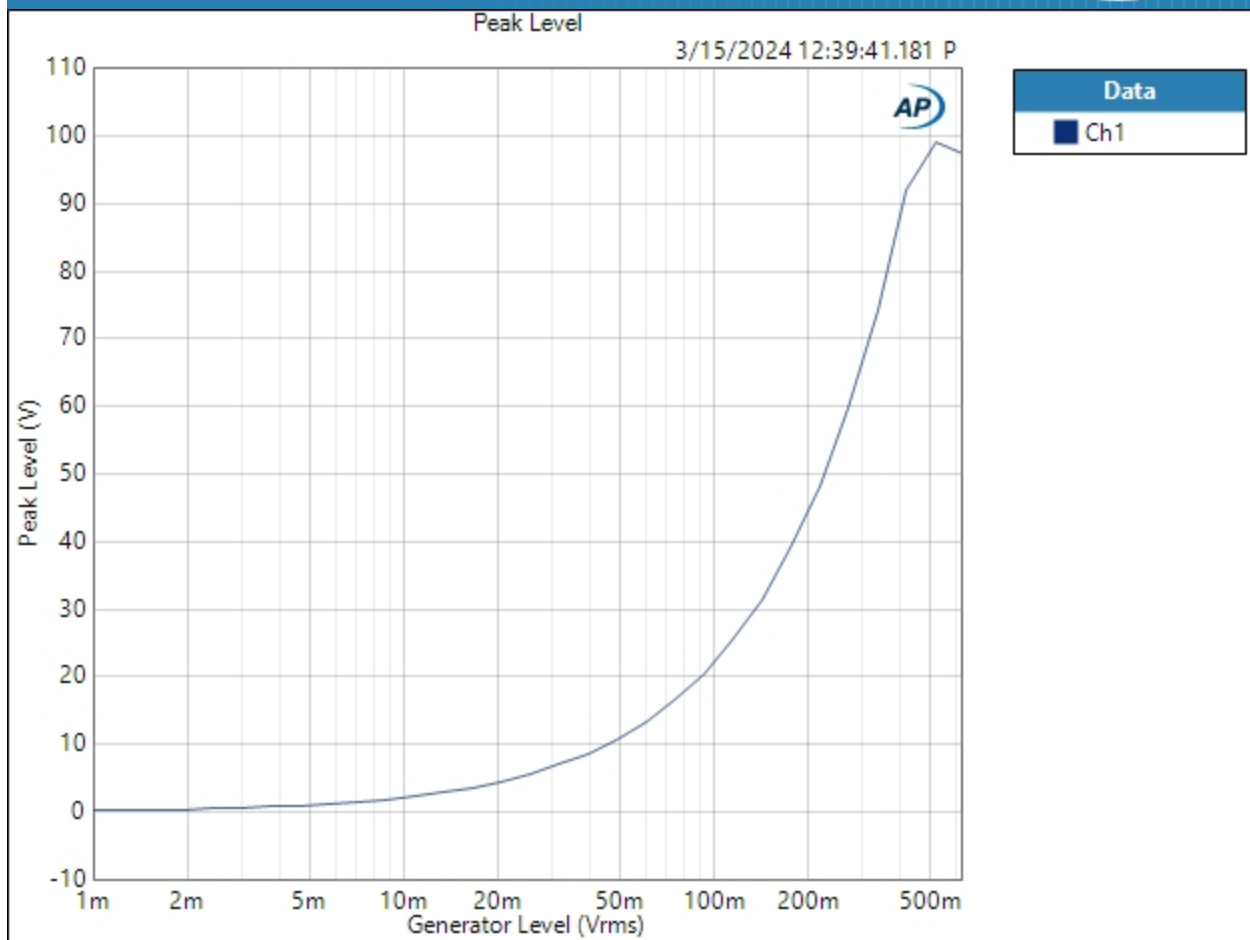
Harmonics: Single Harmonic

Harmonic Number: 2

Result: PASSED

Peak Level (3/15/2024 12:39:41.181 PM)

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Result: PASSED