Sequence Report

Summary

Signal Path1

Signal Path Setup	PASSED
Level and Gain	PASSED
THD+N	PASSED
Signal to Noise Ratio	PASSED
Signal to Noise Ratio(A-Wt)	PASSED
Crosstalk, One Channel Undriven	PASSED
Stepped Frequency Sweep	PASSED
Noise (RMS)	PASSED
IMD (SMPTE)	PASSED
Acoustic Response	PASSED
Dynamic Range	PASSED

Sequence Result:

Sequence Result: PASSED

Signal Path1 : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Source Impedance:	50 ohm
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
Input Bandwidth:	22.0000 Hz - 20.0000 kHz
Device Delay:	0.000 s
Input EQ:	None

• 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
dBrA:	2.034 Vrms
dBrB:	2.034 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dBSPL1:	10.00 mVrms
dBSPL2:	10.00 mVrms
dBSPL1 Calibrator Level:	94.000 dBSPL
dBSPL2 Calibrator Level:	94.000 dBSPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	4.000 ohm

• DCX

DCX is not detected.

Signal Path1 : Verify Connections

Waveform:	Sine
Generator Level:	220.0 mVrms
DC Offset:	0.000 V
Frequency:	1.00000 kHz

RMS Level (2016-11-24 17:57:34.276)

Ch1 2.034 Vrms
Ch2 2.036 Vrms

THD+N Ratio (2016-11-24 17:57:34.276)

Ch1 0.324015 %
Ch2 0.320360 %

Frequency (2016-11-24 17:57:34.276)

Ch1 1.00000 kHz
Ch2 1.00000 kHz

Signal Path1 : Level and Gain

Waveform:	Sine
Generator Level:	220.0 mVrms
DC Offset:	0.000 V
Frequency:	1.00000 kHz

RMS Level (2016-11-24 17:57:36.366)

Ch1 2.034 Vrms
Ch2 2.036 Vrms

Peak Level (2016-11-24 17:57:36.366)

Ch1 2.874 V
Ch2 2.877 V

Signal Path1 : THD+N

Waveform:	Sine
Generator Level:	220.0 mVrms
DC Offset:	0.000 V
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 (2016-11-24 17:57:38.880)

Ch1 0.322465 %

Ch2 0.319856 %

THD+N Level (2016-11-24 17:57:38.880)

Ch1 6.541 mVrms

Ch2 6.494 mVrms

THD Ratio (2016-11-24 17:57:38.880)

Ch1 0.318002 %

Ch2 0.315115 %

THD Level (2016-11-24 17:57:38.880)

Ch1 6.468 mVrms

Ch2 6.415 mVrms

Noise Ratio (2016-11-24 17:57:38.880)

Ch1 0.054643 %

Ch2 0.055959 %

Noise Level (2016-11-24 17:57:38.880)

Ch1 1.111 mVrms

Ch2 1.139 mVrms

Distortion Product Ratio (2016-11-24 17:57:38.880)

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	-74.90	-57.07	-100.87	-57.75	-88.76	-58.45	-95.44	-59.21	-92.08
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-73.96	-56.68	-103.63	-57.61	-88.39	-58.48	-93.89	-59.48	-89.91

Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

Distortion Product Level (2016-11-24 17:57:38.880)

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	2.034	365.9 u	2.850 m	18.40 u	2.636 m	74.18 u	2.432 m	34.39 u	2.227 m	50.61 u
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	2.036	407.8 u	2.983 m	13.40 u	2.680 m	77.50 u	2.424 m	41.15 u	2.162 m	65.07 u

Distortion Product Level Parameters

Frequency Unit: Hz

Level Unit: Vrms

Signal Path1 : Signal to Noise Ratio

Waveform: Sine

Generator Level: 220.0 mVrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

Low-pass Filter: 20 kHz

Weighting Filter: Signal Path

High-pass Filter: 20 Hz

Signal to Noise Ratio (2016-11-24 17:57:41.240)

Ch1 69.772 dB

Ch2 69.154 dB

Signal Path1 : Signal to Noise Ratio(A-Wt)

Waveform: Sine

Generator Level: 220.0 mVrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

Low-pass Filter: 20 kHz

Weighting Filter: A-wt.

High-pass Filter: 20 Hz

Signal to Noise Ratio (2016-11-24 17:57:43.441)

Ch1 72.237 dB

Ch2 71.421 dB

Signal Path1 : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Level:	220.0 mVrms
DC Offset:	0.000 V
Frequency:	1.00000 kHz

Crosstalk (2016-11-24 17:57:47.523)

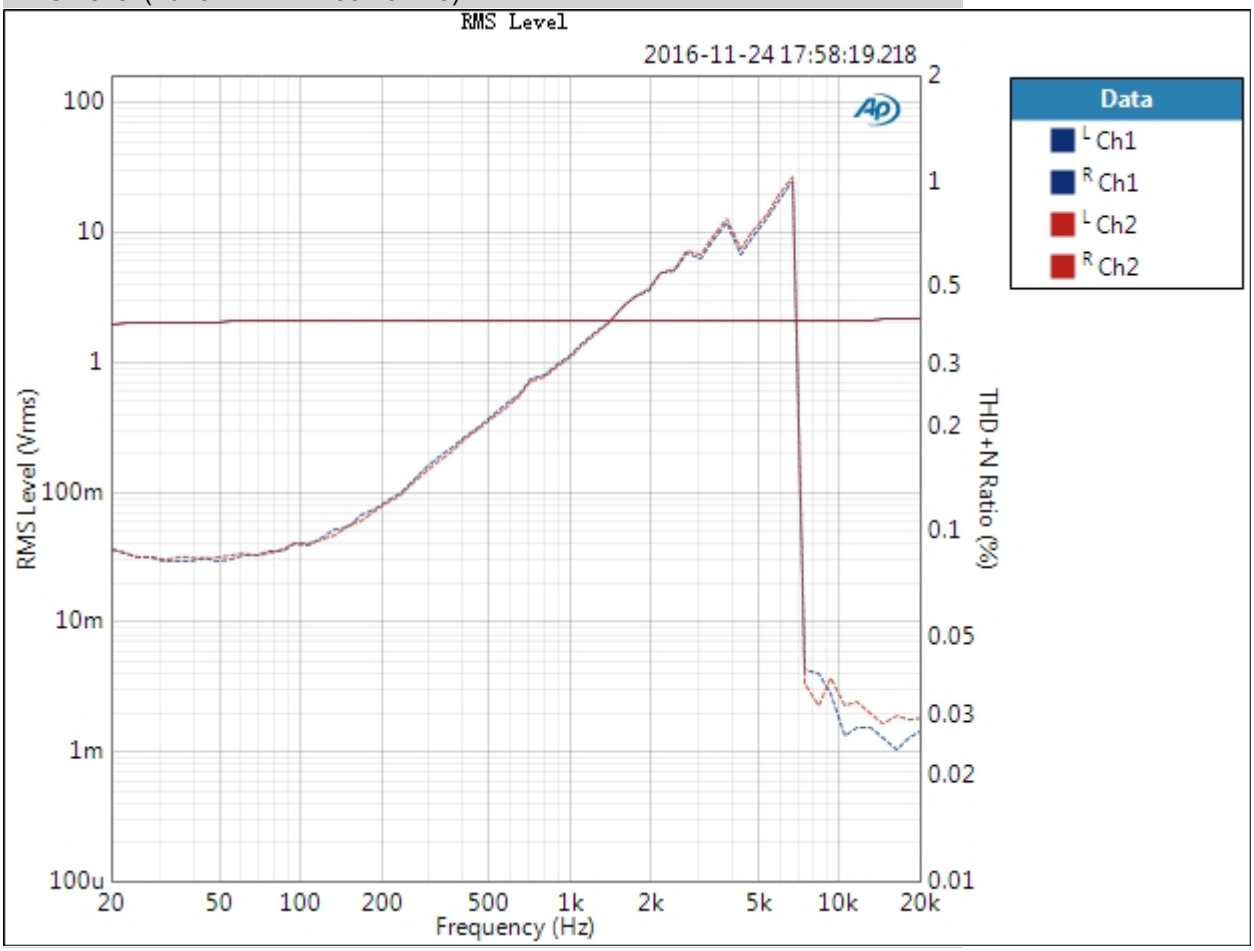
Ch1 -65.477 dB

Ch2 -66.283 dB

Signal Path1 : Stepped Frequency Sweep

Generator Level:	220.0 mVrms
DC Offset:	0.000 V
EQ:	None
Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Step Type:	Logarithmic
Number of Points:	63
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Phase Ref Channel:	Ch1
Measured 1	2016-11-24 17:58:19

RMS Level (2016-11-24 17:58:19.218)

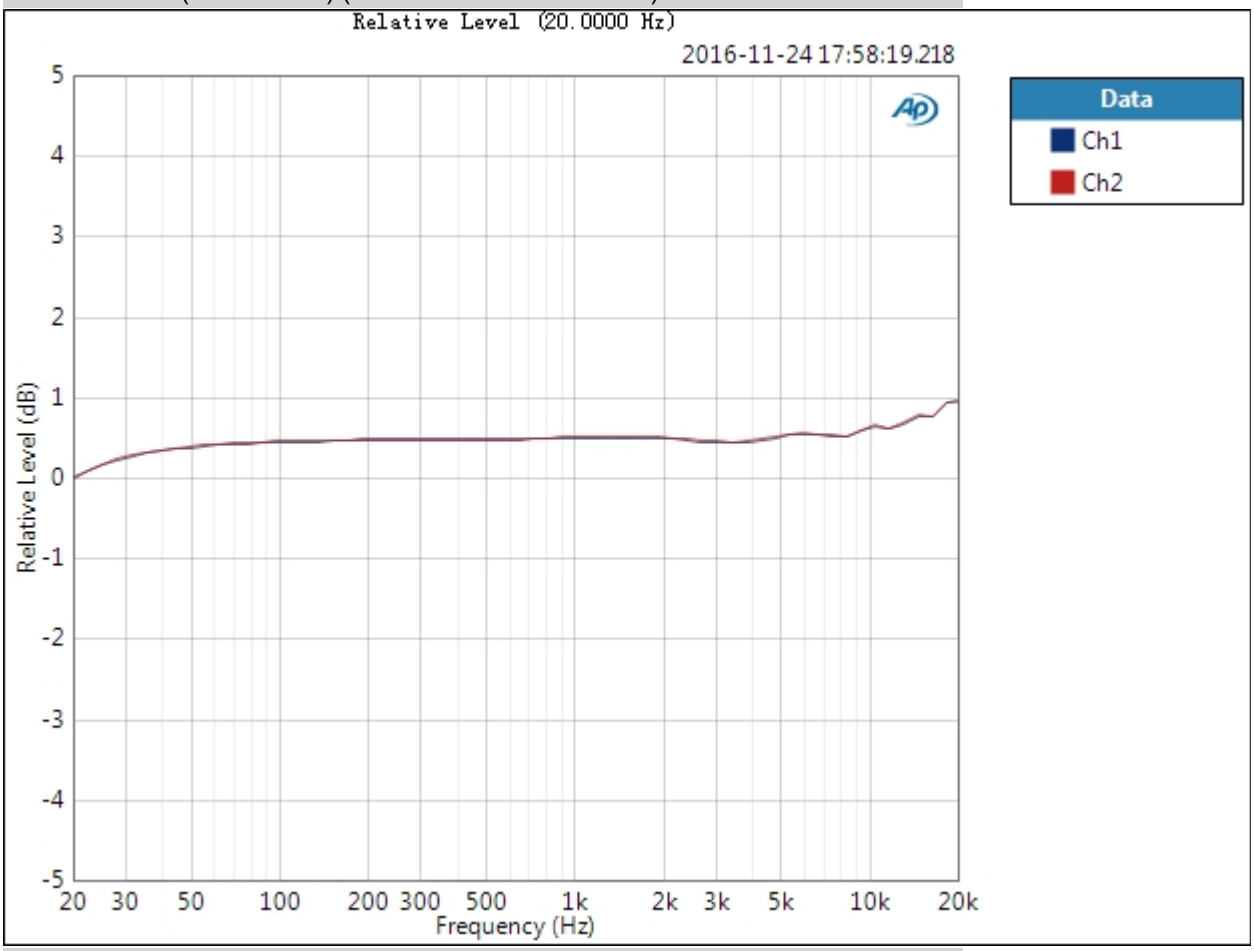


RMS Level Parameters

Result Failure Condition: Left Or Right

Result: PASSED

Relative Level (20.0000 Hz) (2016-11-24 17:58:19.218)



Relative Level (20.0000 Hz) Parameters

Mode: Normalized at Reference

Ref Frequency: 20.0000 Hz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (2016-11-24 17:58:19.218)

Ch1 ±0.472 dB

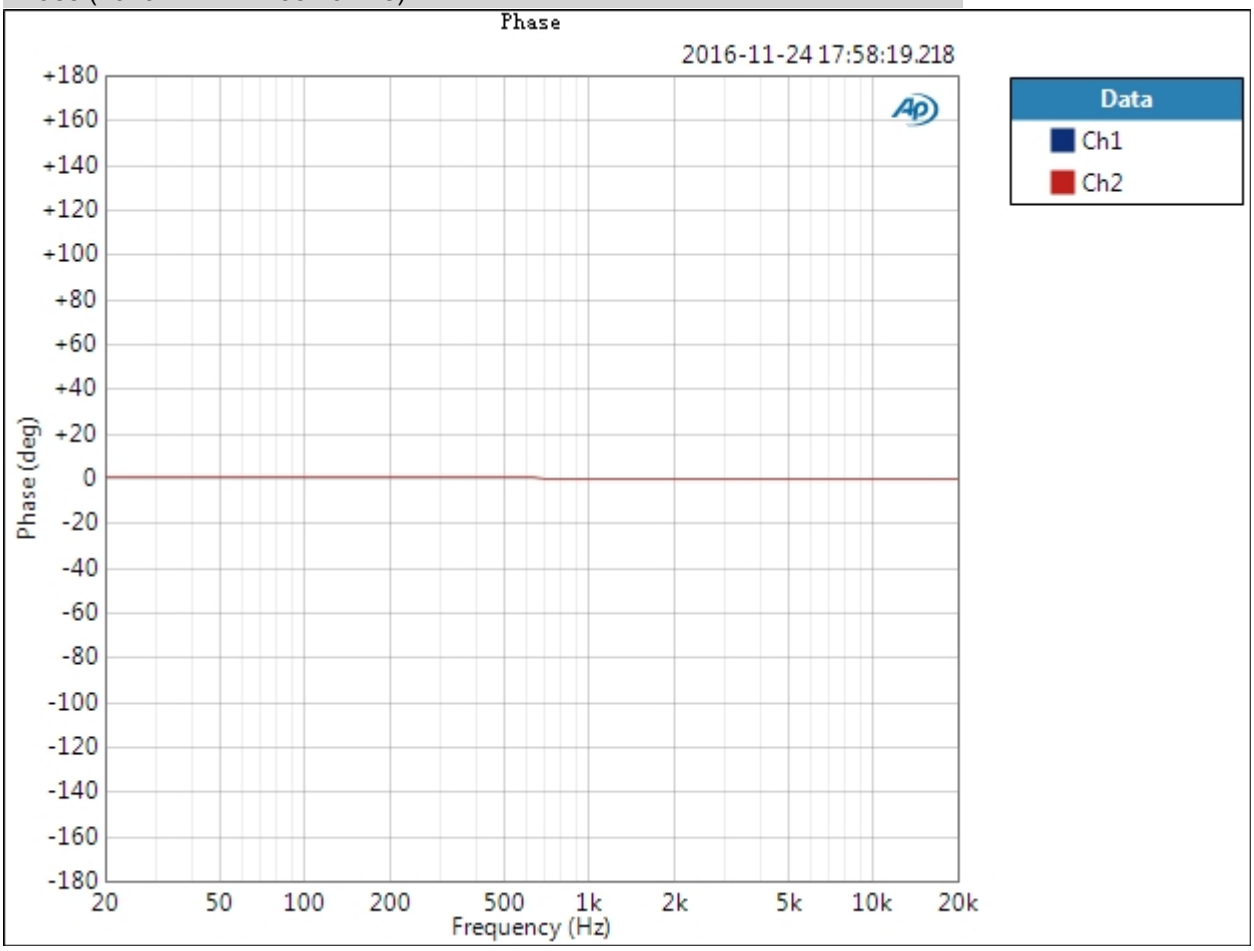
Ch2 ±0.475 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

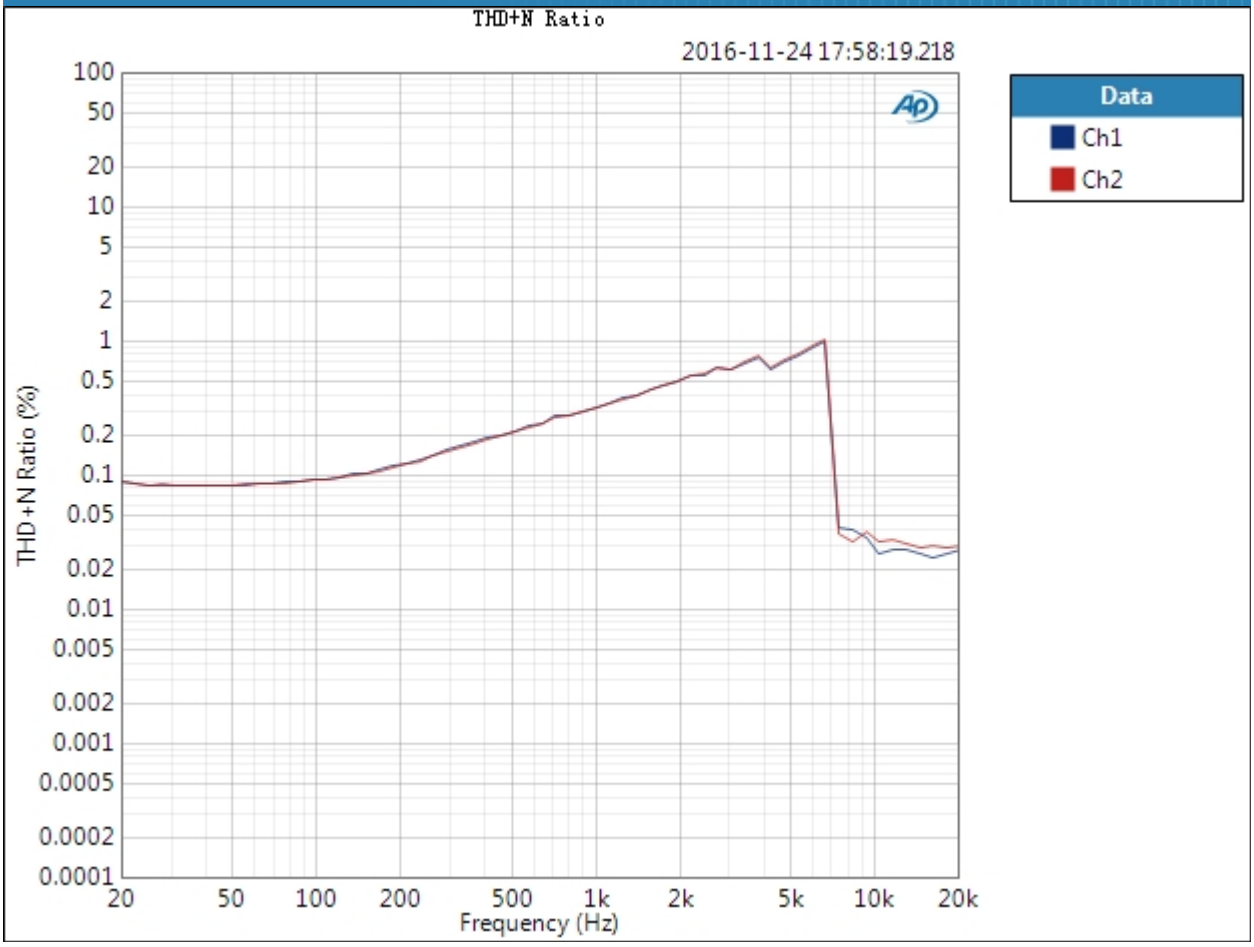
Max: 20.0000 kHz

Phase (2016-11-24 17:58:19.218)



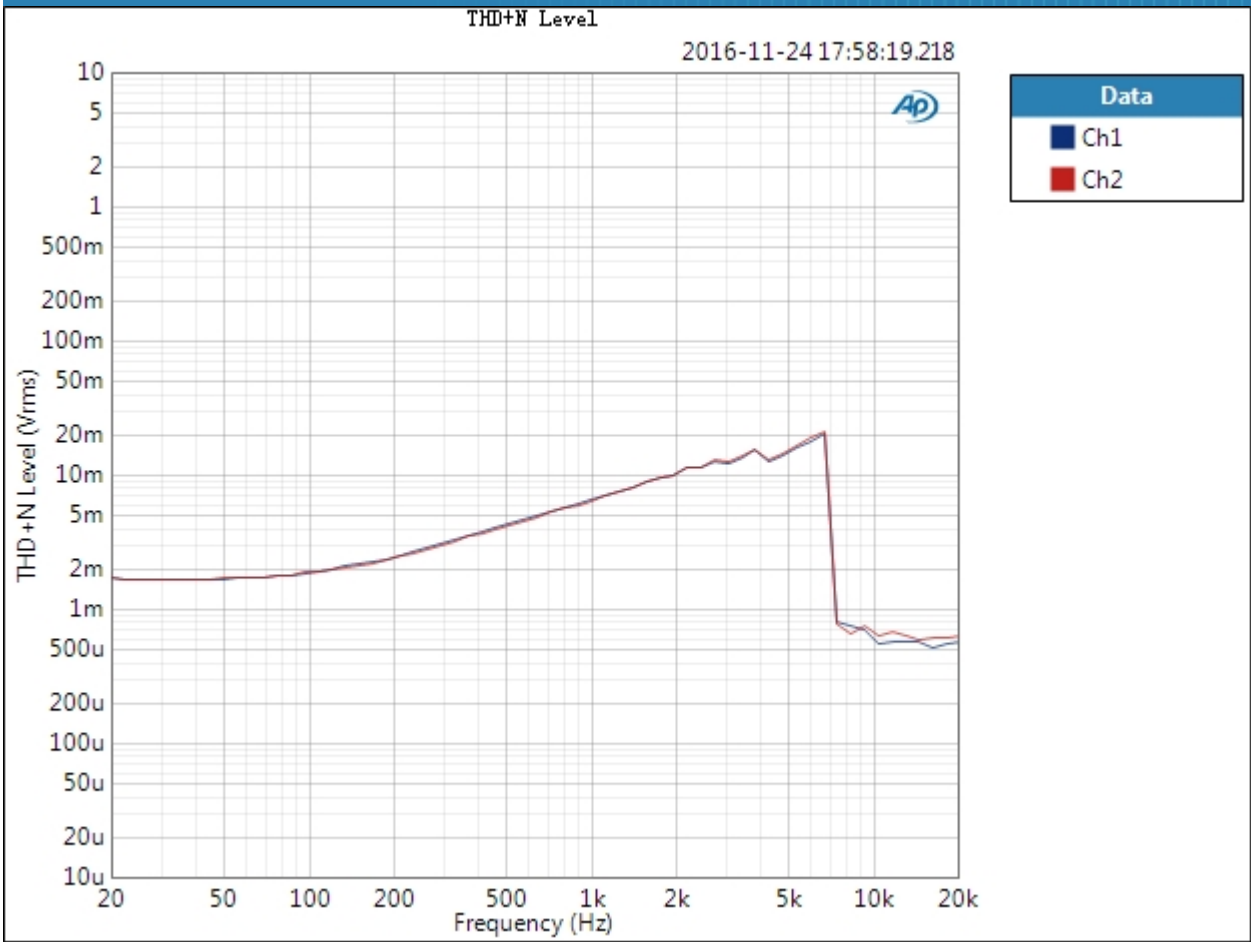
Result: PASSED

THD+N Ratio (2016-11-24 17:58:19.218)



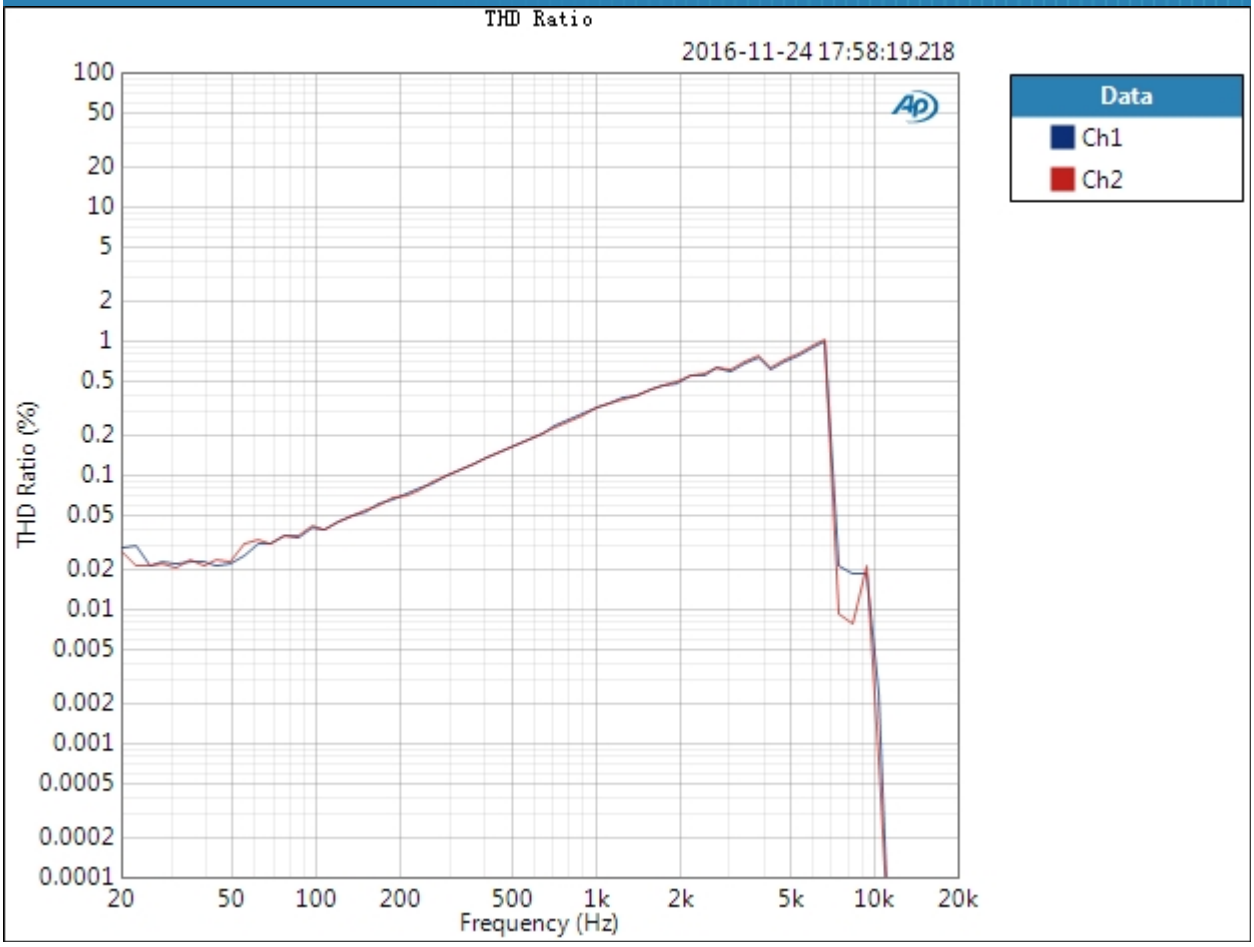
Result: PASSED

THD+N Level (2016-11-24 17:58:19.218)



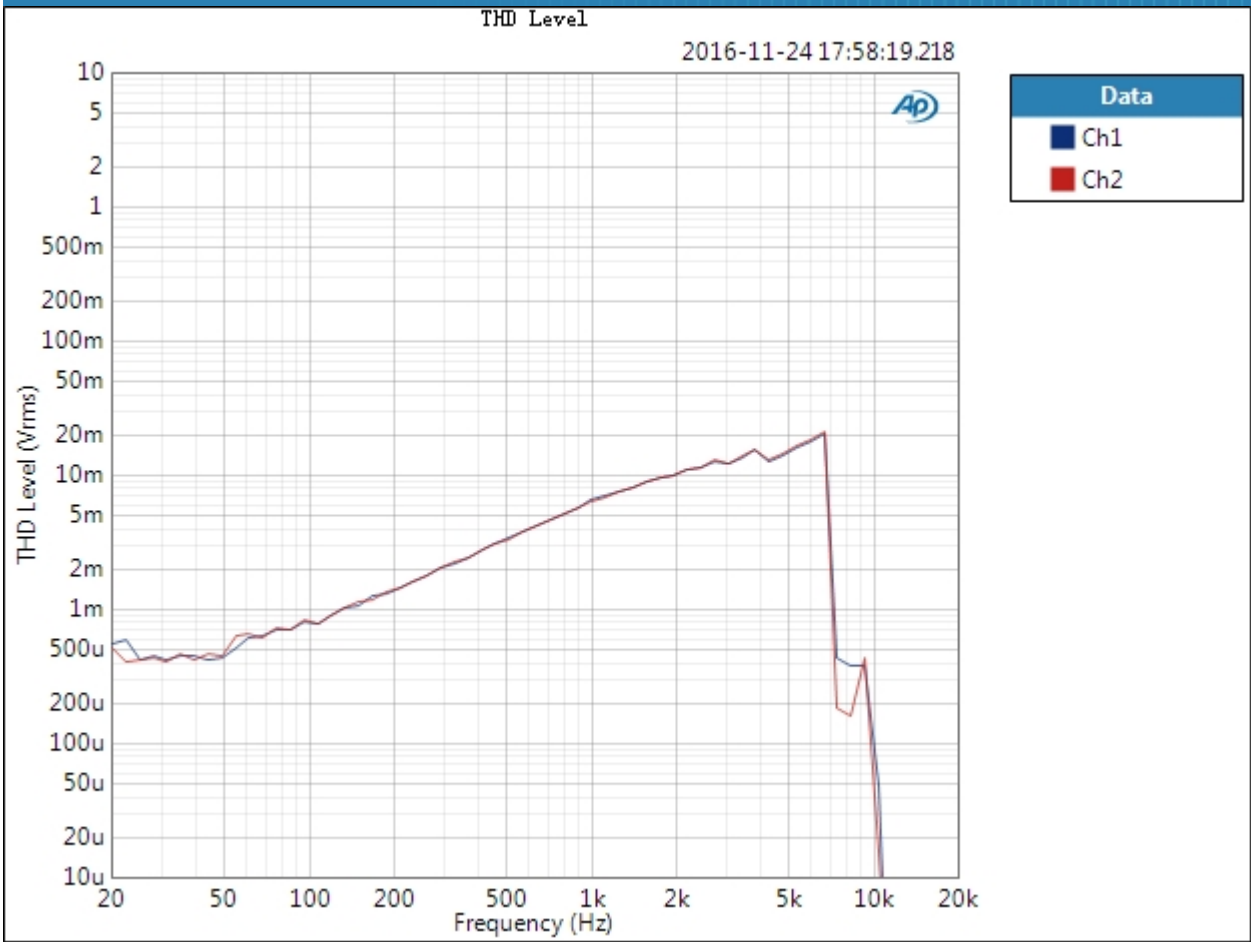
Result: PASSED

THD Ratio (2016-11-24 17:58:19.218)



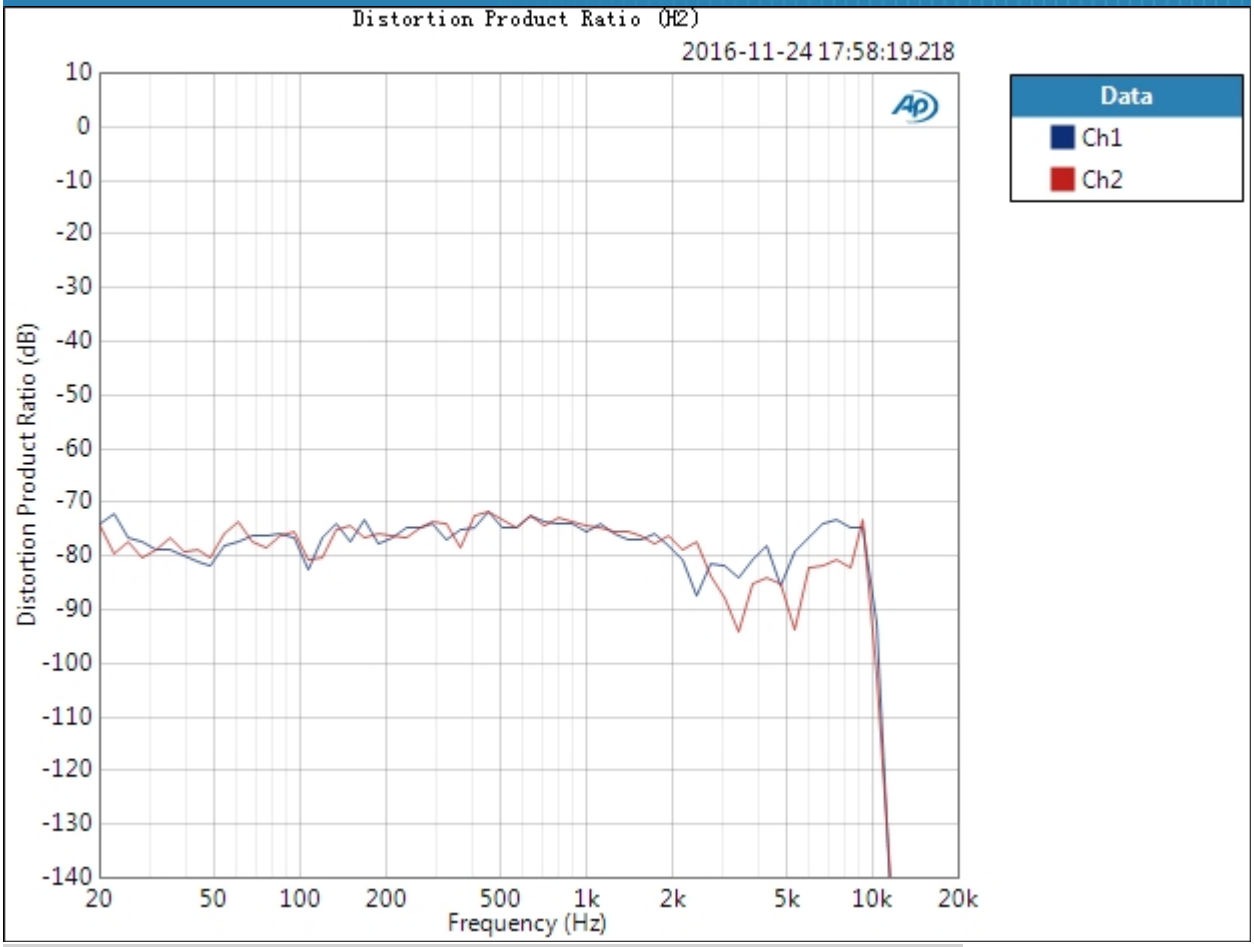
Result: PASSED

THD Level (2016-11-24 17:58:19.218)



Result: PASSED

Distortion Product Ratio (H2) (2016-11-24 17:58:19.218)

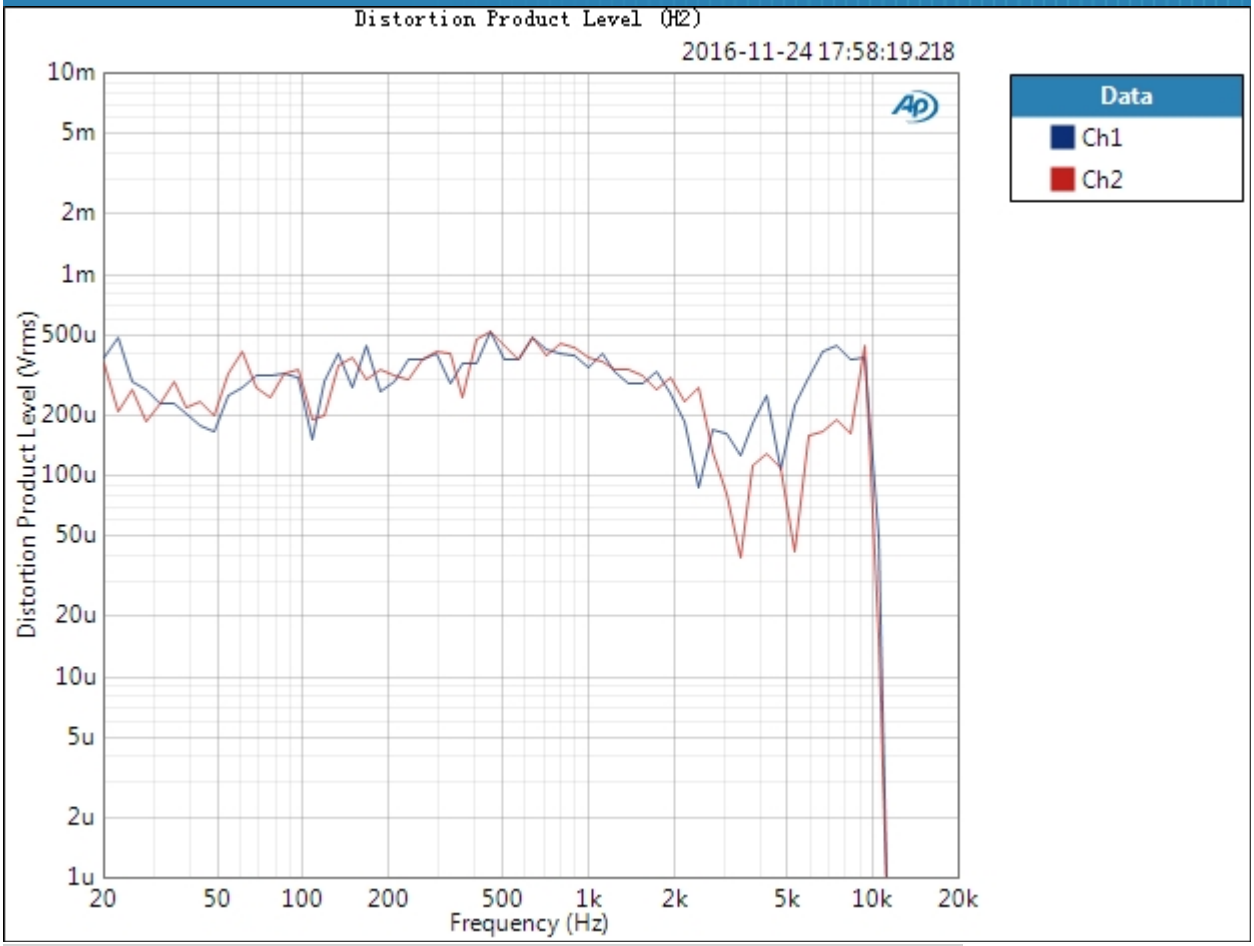


Distortion Product Ratio (H2) Parameters

Harmonics:	Single Harmonic
Harmonic Number:	2

Result: PASSED

Distortion Product Level (H2) (2016-11-24 17:58:19.218)



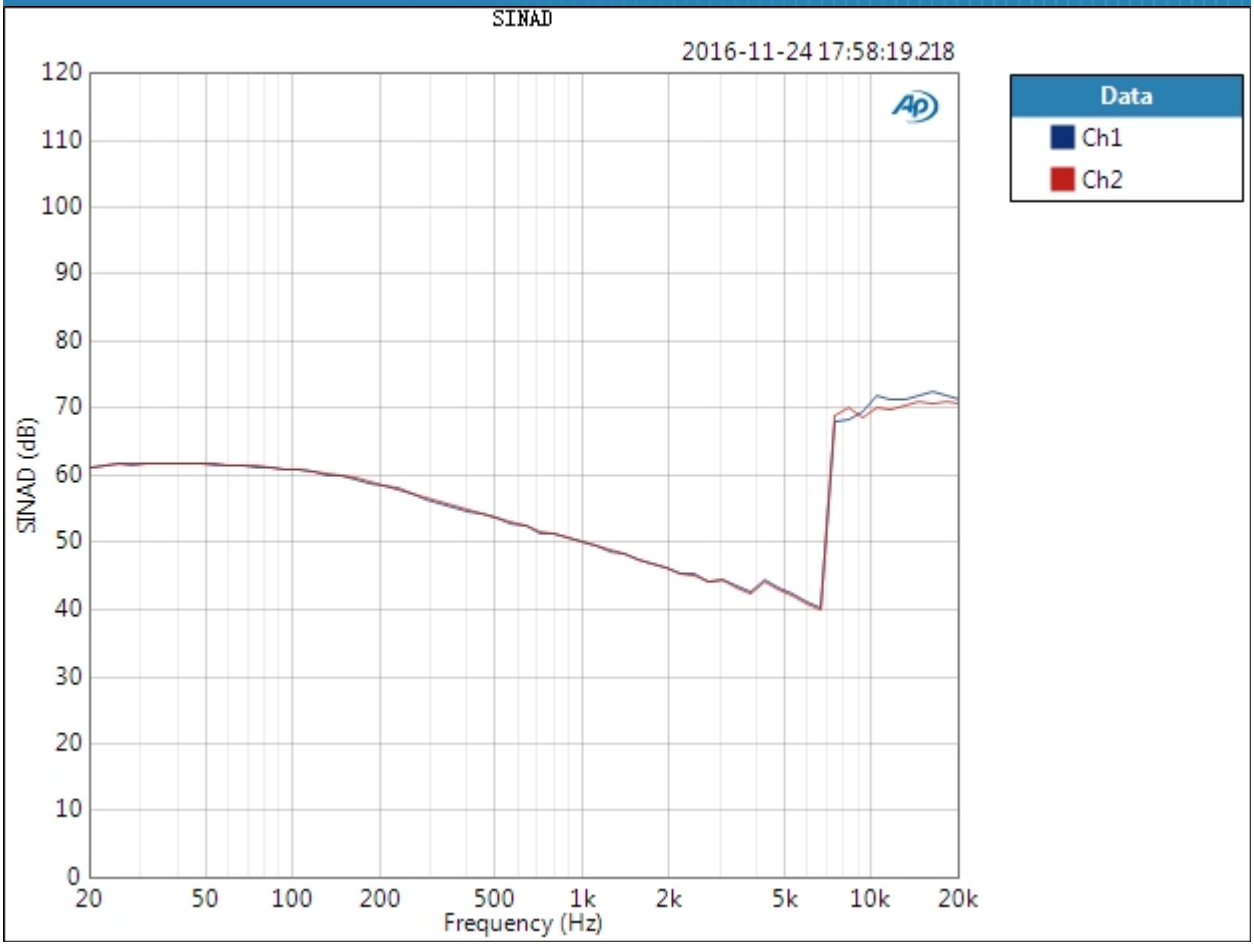
Distortion Product Level (H2) Parameters

Harmonics: Single Harmonic

Harmonic Number: 2

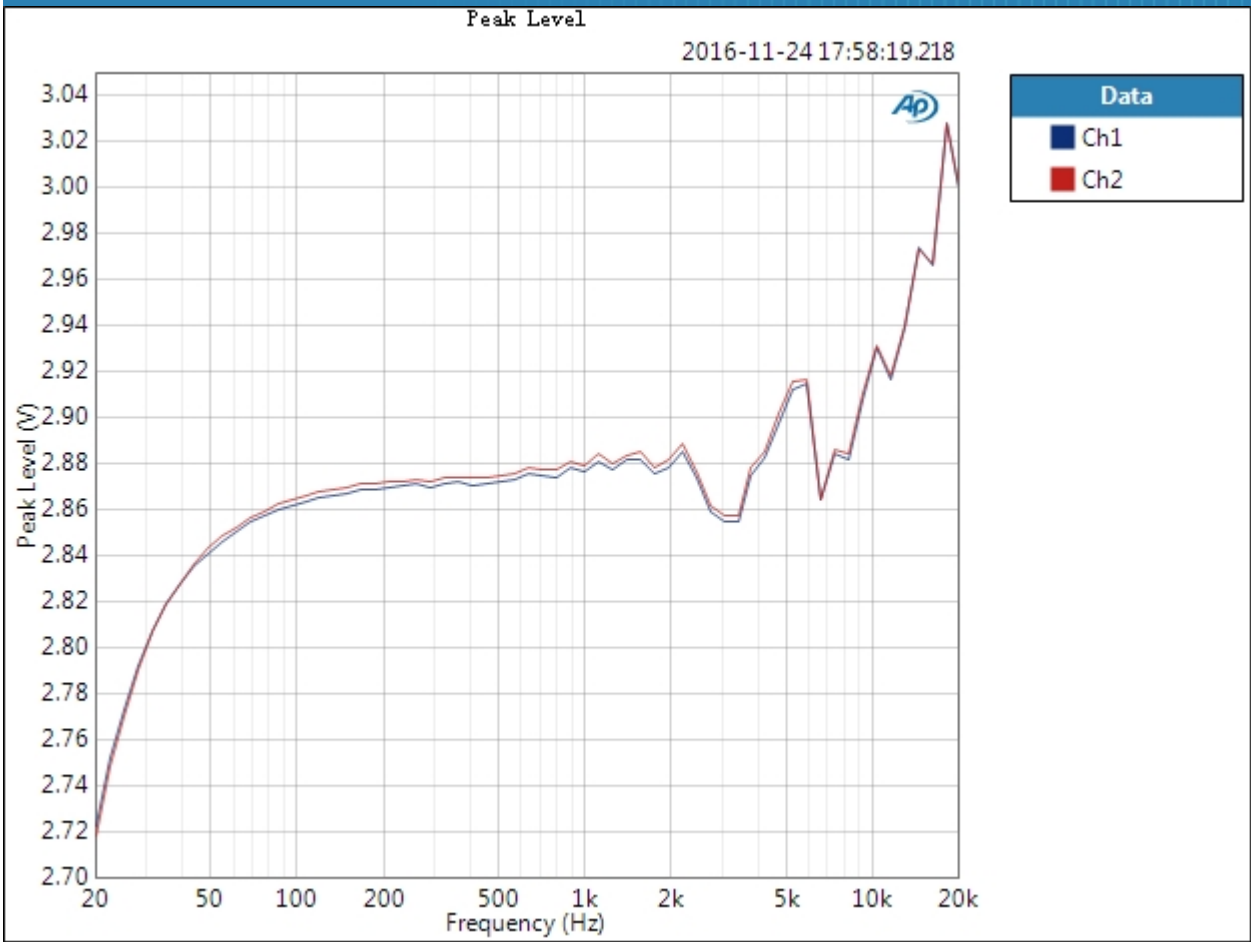
Result: PASSED

SINAD (2016-11-24 17:58:19.218)



Result: PASSED

Peak Level (2016-11-24 17:58:19.218)



Result: PASSED

Signal Path1 : Noise (RMS)

Waveform:	None
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Acquisition Time:	250.0 ms
Delay Time:	300.0 ms

Noise Level (2016-11-24 17:58:20.829)

Ch1 650.5 uVrms

Ch2 712.6 uVrms

Signal Path1 : IMD (SMPTE)

IMD Type:	SMPTE
Waveform:	IMD
Generator Level:	220.0 mVrms
DC Offset:	0.000 V
Frequency 1:	60.0000 Hz
Frequency 2:	7.00000 kHz
Frequency Ratio:	4:1
IMD Split:	False

SMPTE Ratio (2016-11-24 17:58:22.724)

Ch1 -44.184 dB

Ch2 -43.999 dB

SMPTE Distortion Product Ratio (2016-11-24 17:58:22.724)

Channel	f1	d5	d4	d3	d2	f2	d2	d3	d4	d5
	60.00	6.760k	6.820k	6.880k	6.940k	7.000k	7.060k	7.120k	7.180k	7.240k
Ch1	11.91	-47.64	-81.15	-46.15	-82.62	0.00	-87.67	-45.86	-86.08	-47.04
	60.00	6.760k	6.820k	6.880k	6.940k	7.000k	7.060k	7.120k	7.180k	7.240k
Ch2	11.91	-47.51	-87.26	-46.20	-81.11	0.00	-77.59	-45.77	-81.33	-47.06

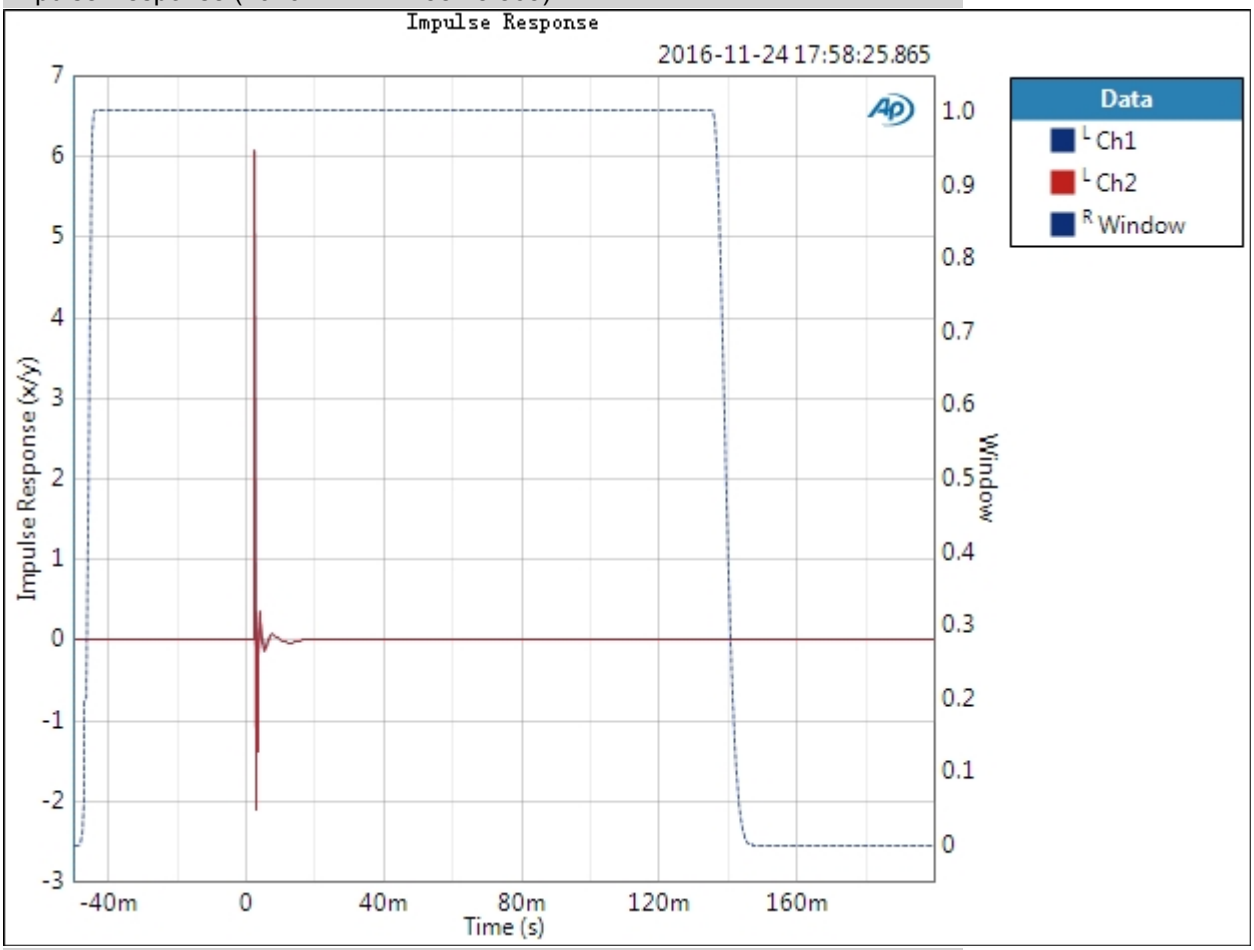
SMPTE Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

Signal Path1 : Acoustic Response

Generator Level:	220.0 mVrms
DC Offset:	0.000 V
EQ:	None
Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Sweep:	350.0 ms
Pre-Sweep:	0.000 s
Extend Acquisition By:	50.00 ms
Averages:	1
Secondary Source:	None
Measured 1	2016-11-24 17:58:25

Impulse Response (2016-11-24 17:58:25.865)

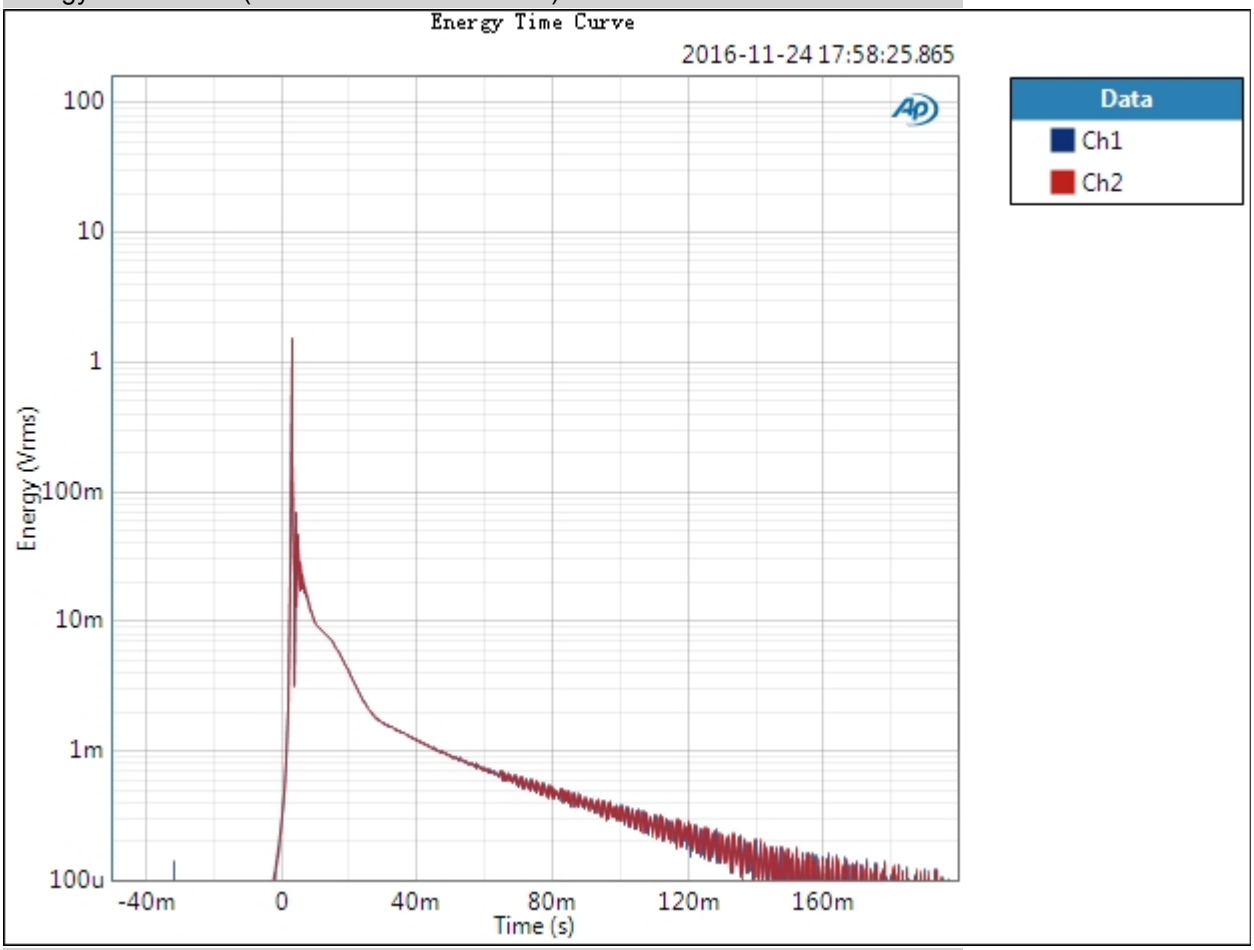


Impulse Response Parameters

Window End: 400.0 ms
Taper Type: AP-Equiripple
Time Window: Track Peak
Taper Start: 10.000 %
Taper End: 10.000 %

Result: PASSED

Energy Time Curve (2016-11-24 17:58:25.865)

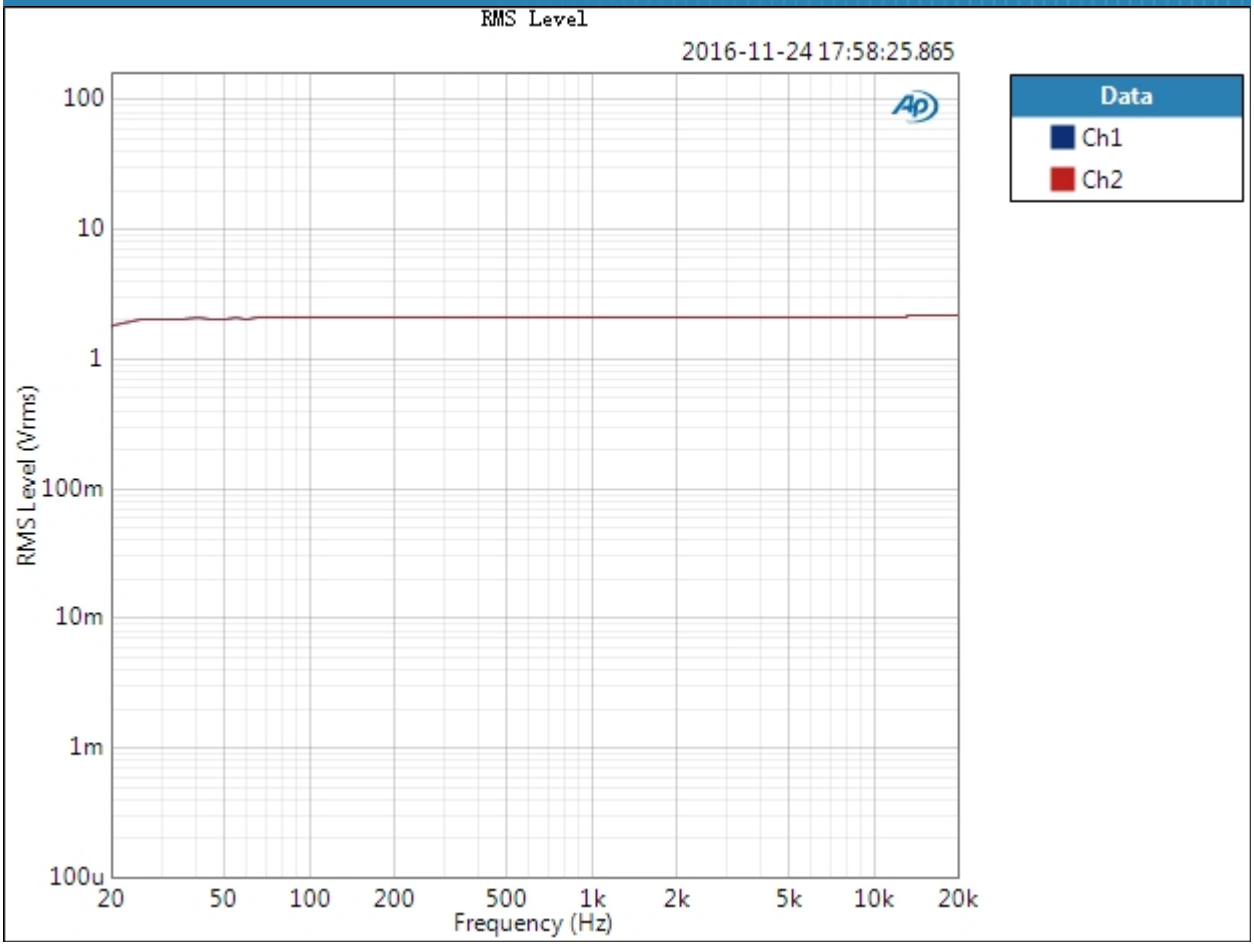


Energy Time Curve Parameters

Window End: 400.0 ms

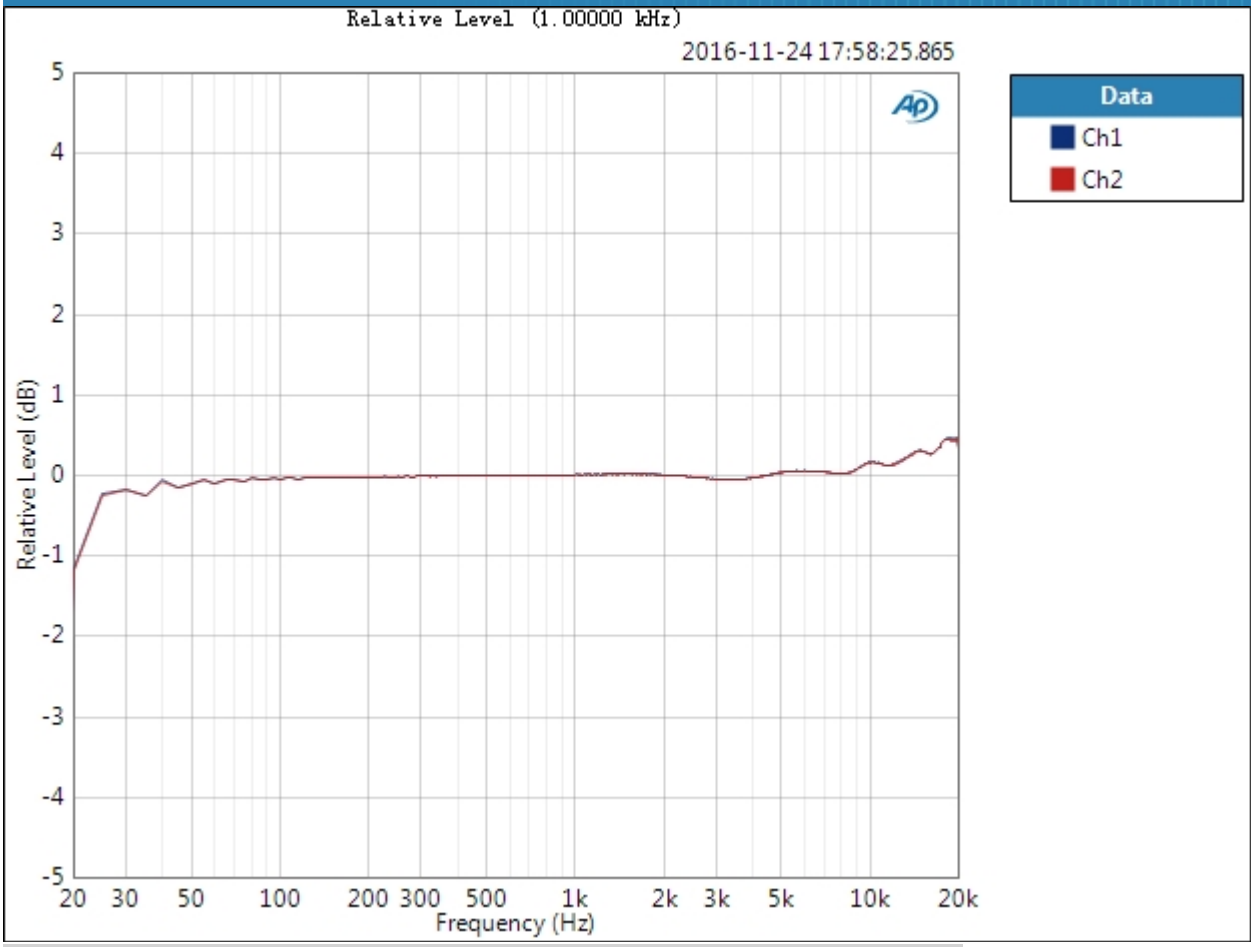
Result: PASSED

RMS Level (2016-11-24 17:58:25.865)



Result: PASSED

Relative Level (1.00000 kHz) (2016-11-24 17:58:25.865)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (2016-11-24 17:58:25.865)

Ch1 ±0.856 dB

Ch2 ±0.859 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

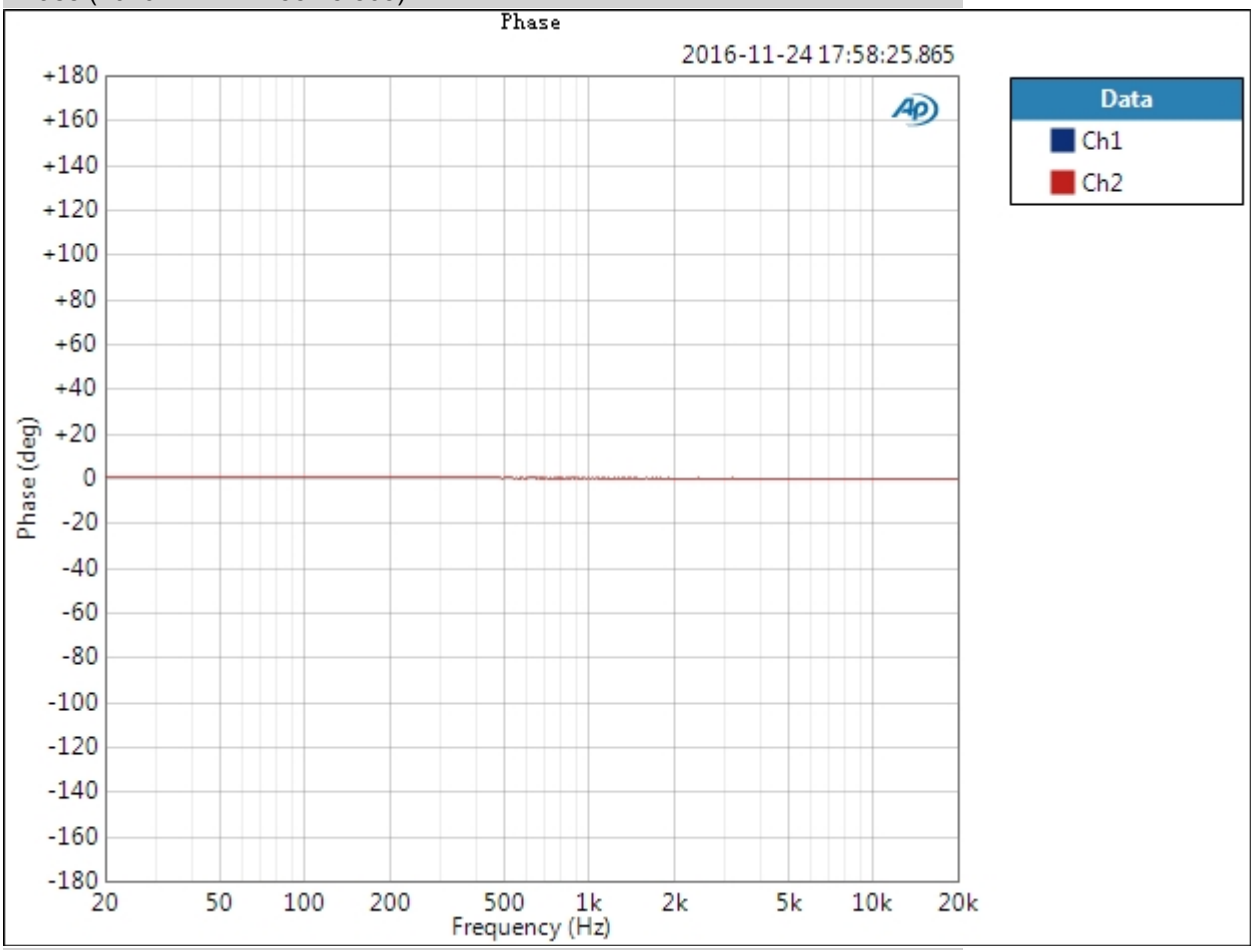
Smoothing: None

Delay (2016-11-24 17:58:25.865)

Ch1 2.451 ms

Ch2 2.451 ms

Phase (2016-11-24 17:58:25.865)

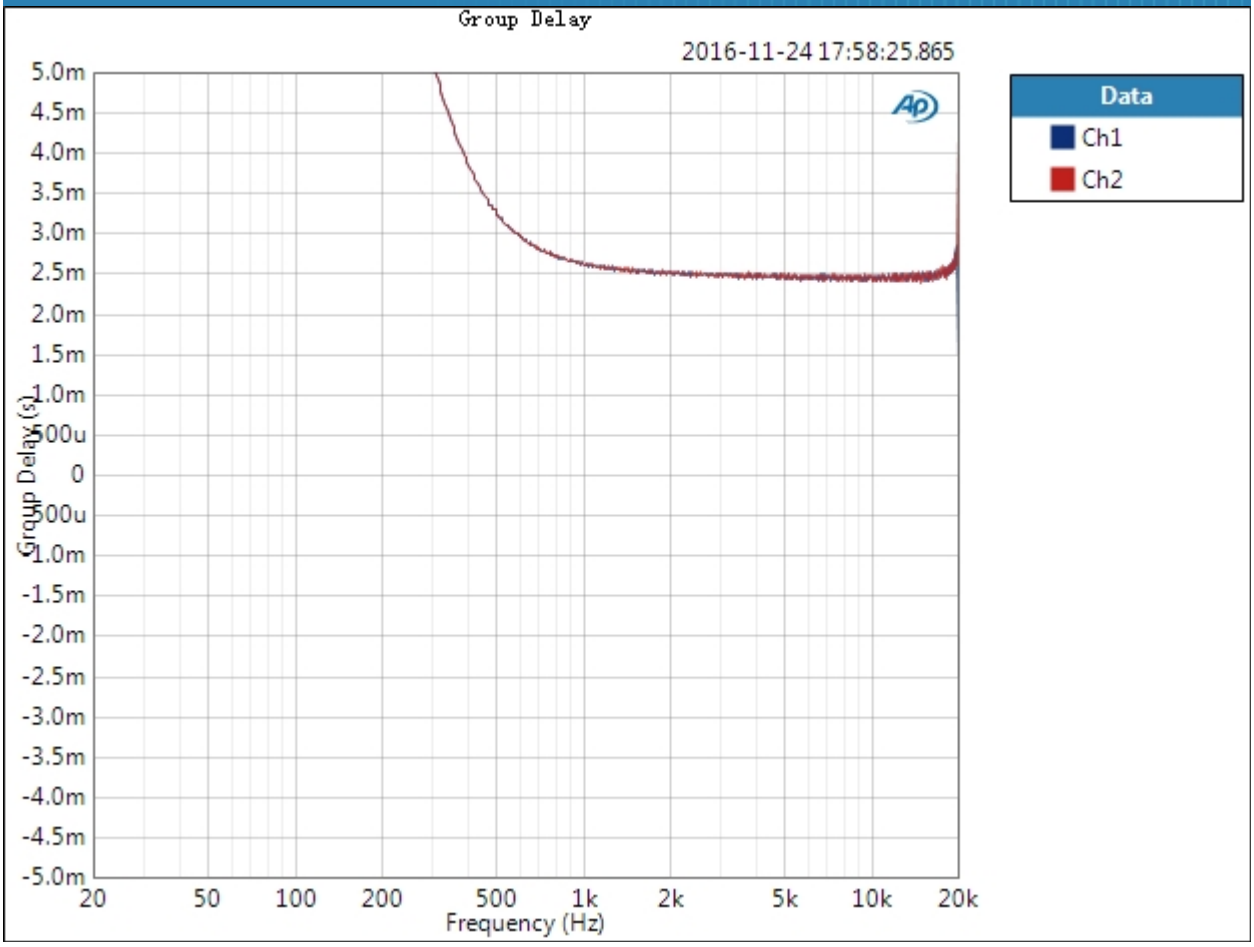


Phase Parameters

Mode: Relative to Ch1

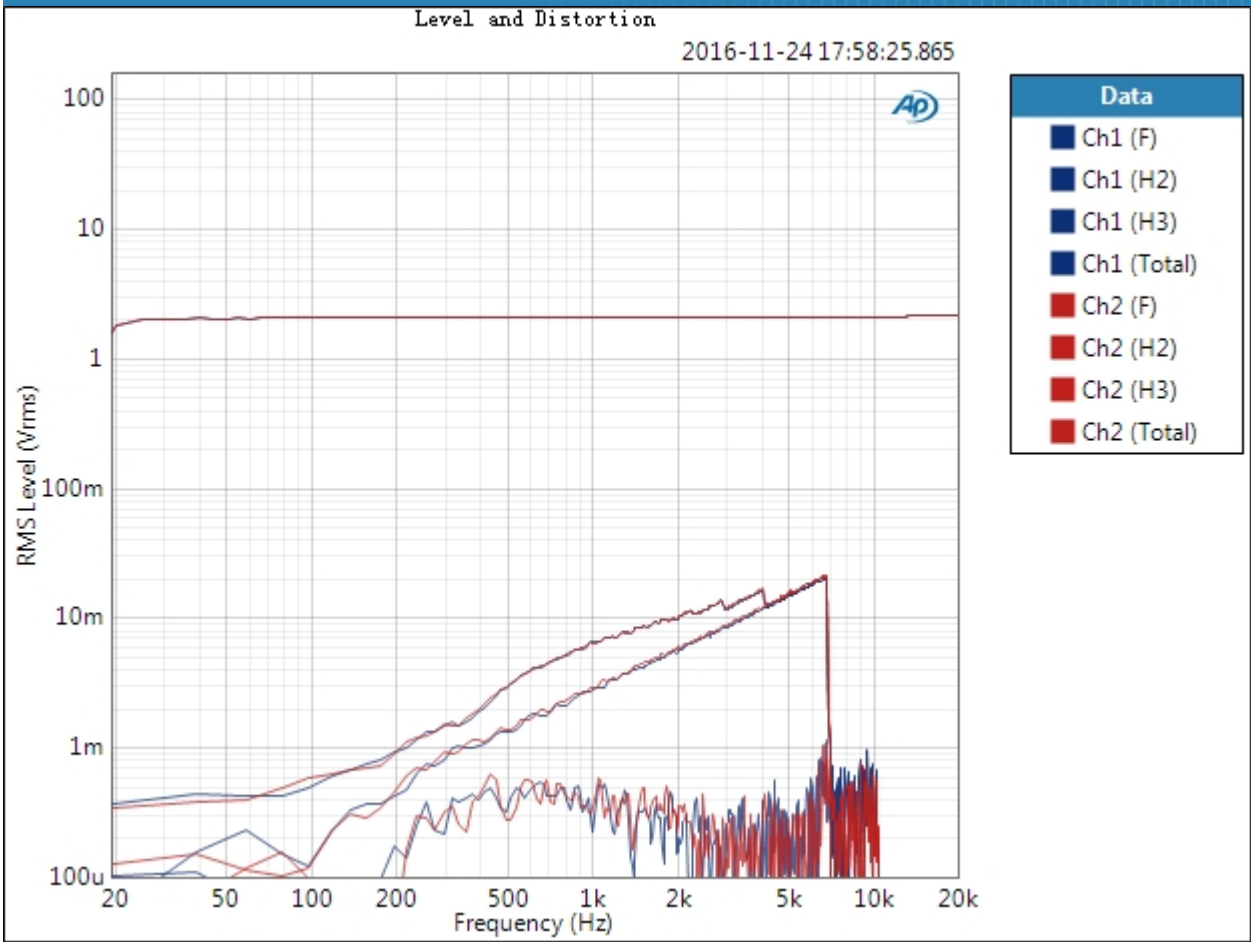
Result: PASSED

Group Delay (2016-11-24 17:58:25.865)



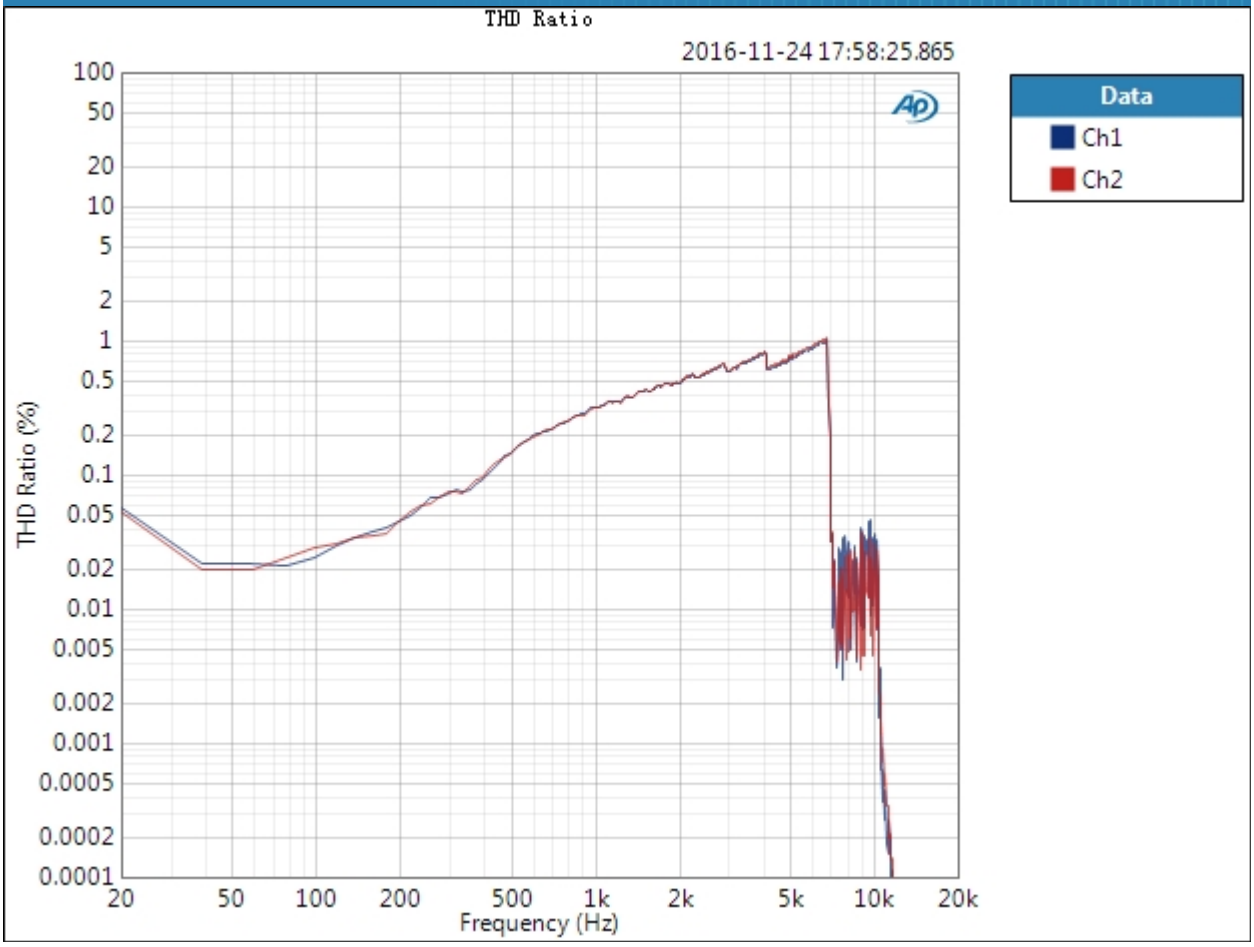
Result: PASSED

Level and Distortion (2016-11-24 17:58:25.865)



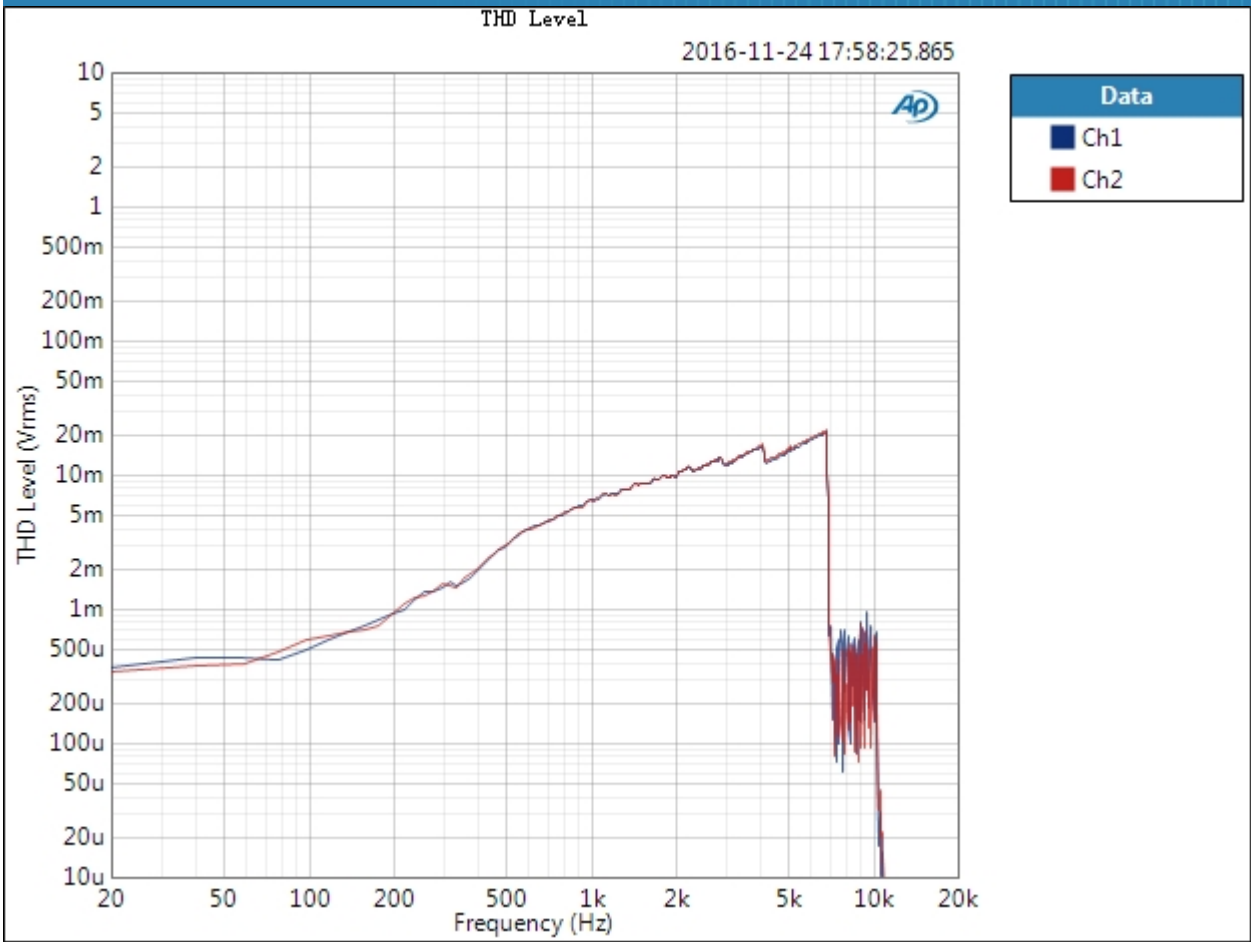
Result: PASSED

THD Ratio (2016-11-24 17:58:25.865)



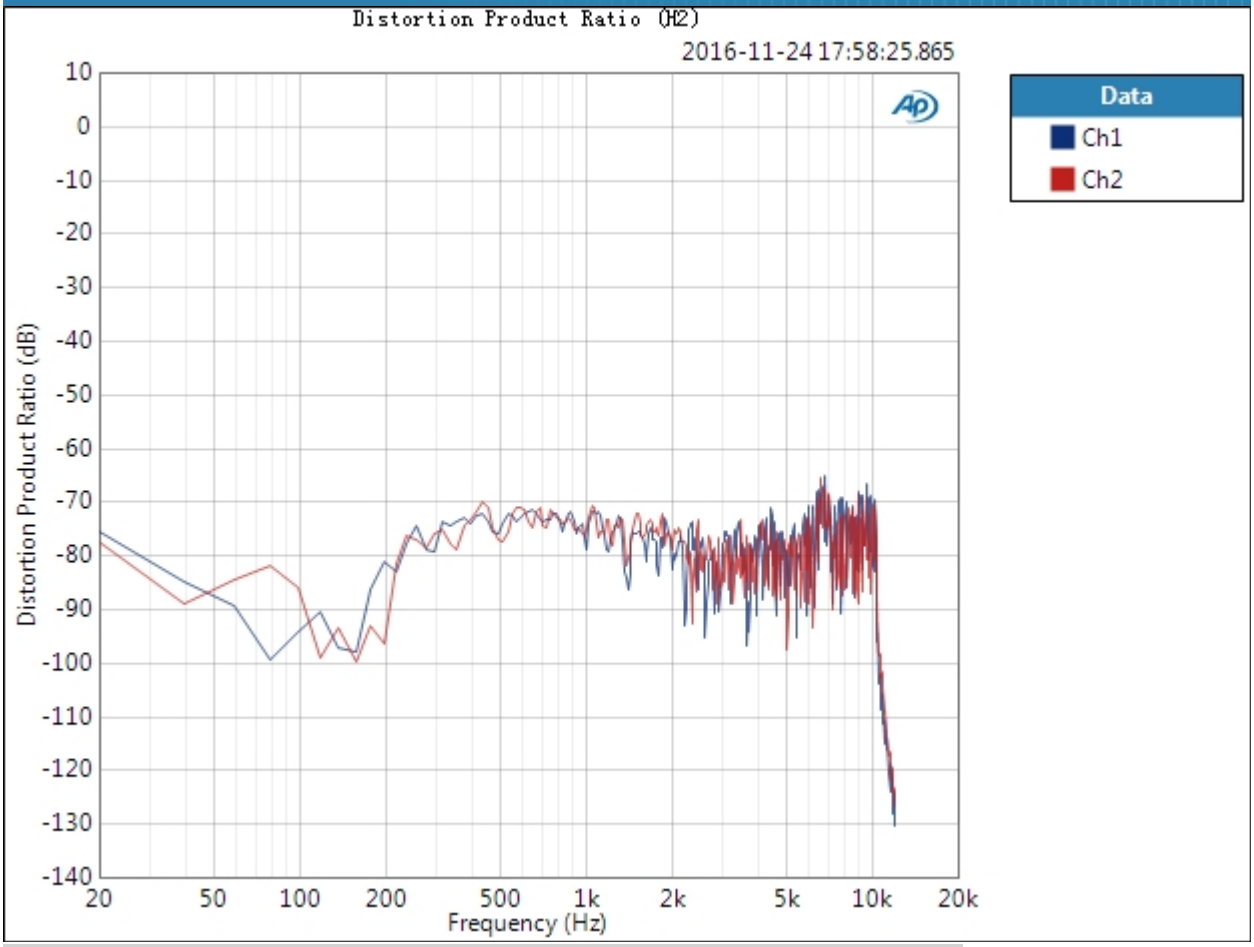
Result: PASSED

THD Level (2016-11-24 17:58:25.865)



Result: PASSED

Distortion Product Ratio (H2) (2016-11-24 17:58:25.865)



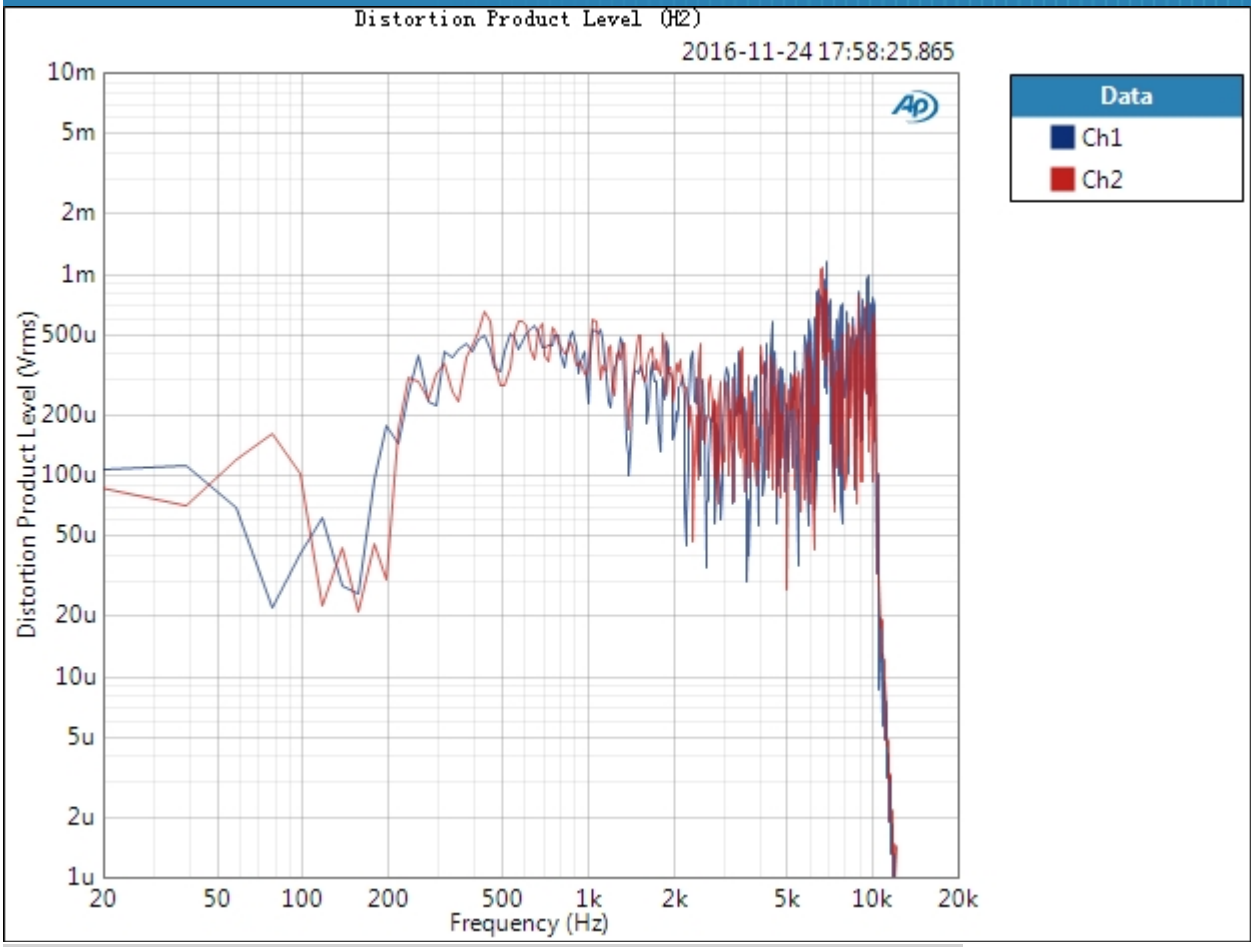
Distortion Product Ratio (H2) Parameters

Harmonics: Single Harmonic

Harmonic Number: 2

Result: PASSED

Distortion Product Level (H2) (2016-11-24 17:58:25.865)



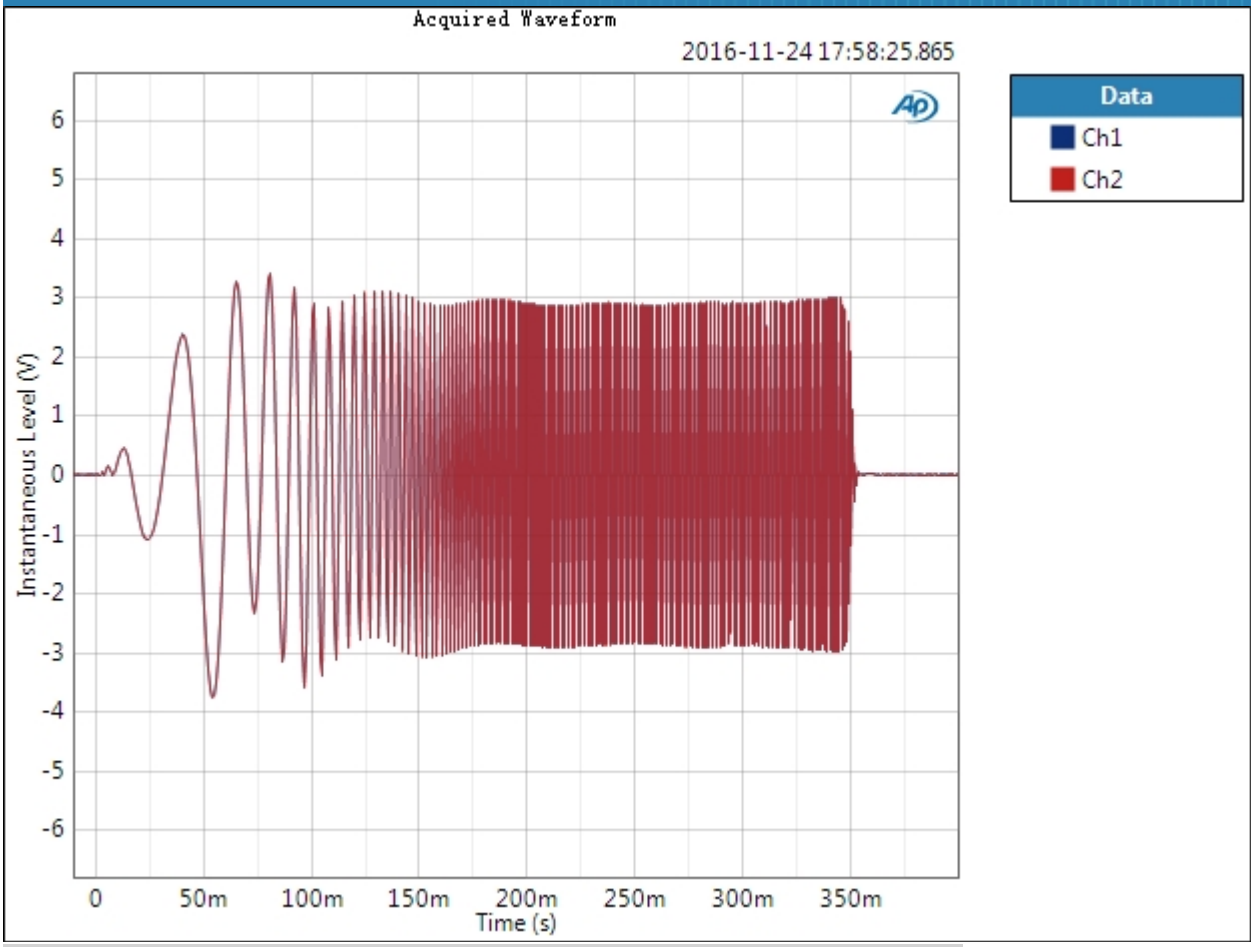
Distortion Product Level (H2) Parameters

Harmonics: Single Harmonic

Harmonic Number: 2

Result: PASSED

Acquired Waveform (2016-11-24 17:58:25.865)



Acquired Waveform Parameters

Interpolated: On

Result: PASSED

Signal Path1 : Dynamic Range

Waveform:	Sine
Generator Level:	220.0 uVrms
DC Offset:	0.000 V
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz
Notch Tuning Mode:	Fixed Frequency
Notch Frequency:	1.00000 kHz

THD+N Level (2016-11-24 17:58:29.196)

Ch1 -72.917 dBrA

Ch2 -71.930 dBrA