

BOSC TEST



Summary

Signal Path1

Signal Path Setup	✓ PASSED
Signal to Noise Ratio	✓ PASSED
Frequency Response	✓ PASSED
Stepped Level Sweep	✓ PASSED
Stepped Frequency Sweep	✓ PASSED
IMD Level Sweep (SMPTE)	✓ PASSED

Signal Path 2

Signal Analyzer	✓ PASSED
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Sequence Result:

Sequence Result: ✓ PASSED

APx Instrument

Instrument ID: 28163
Calibration Date: 03/03/2016
APx Version: 4.6.0.255.130221

Signal Path1 : Signal Path Setup

Output Connector: Analog Balanced
 Channels: 1
 Configuration: Normal (Differential)
 Source Impedance: 40 ohm
 AG52 Generator Option: Installed
 Output EQ: None
 Input Connector: Analog Balanced
 Channels: 1
 Channel: Ch1
 Termination: 200 kohm
 Input Bandwidth: AC (<10 Hz) - 22.4k (48 kHz SR)
 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: 34.60 Vrms
 dBrB: 34.60 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 : Verify Connections

Waveform: Sine

Generator Level: 2.500 Vrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

Gain (07/06/2020 1:10:22.704 PM)

BOSC 16.897 dB

Signal Path1 : Signal to Noise Ratio

Waveform: Sine

Generator Level: 5.000 Vrms

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 (SNR) A-wt. (07/06/2020 1:10:25.306 PM)

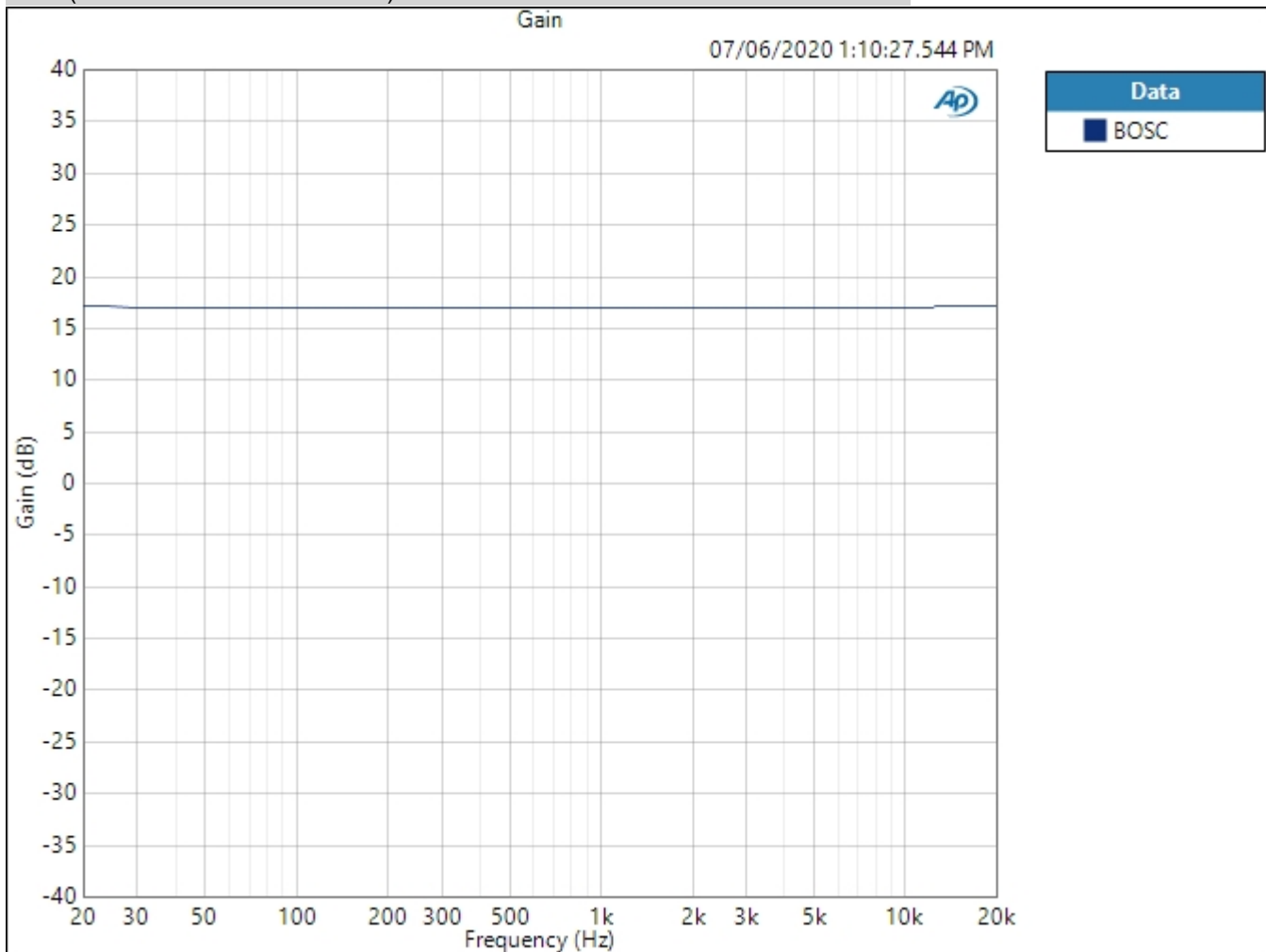
BOSC 121.156 dB

BOSC TEST

Signal Path1 : Frequency Response

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: 2.500 Vrms
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 07/06/2020 1:10:27 PM

Gain (07/06/2020 1:10:27.544 PM)



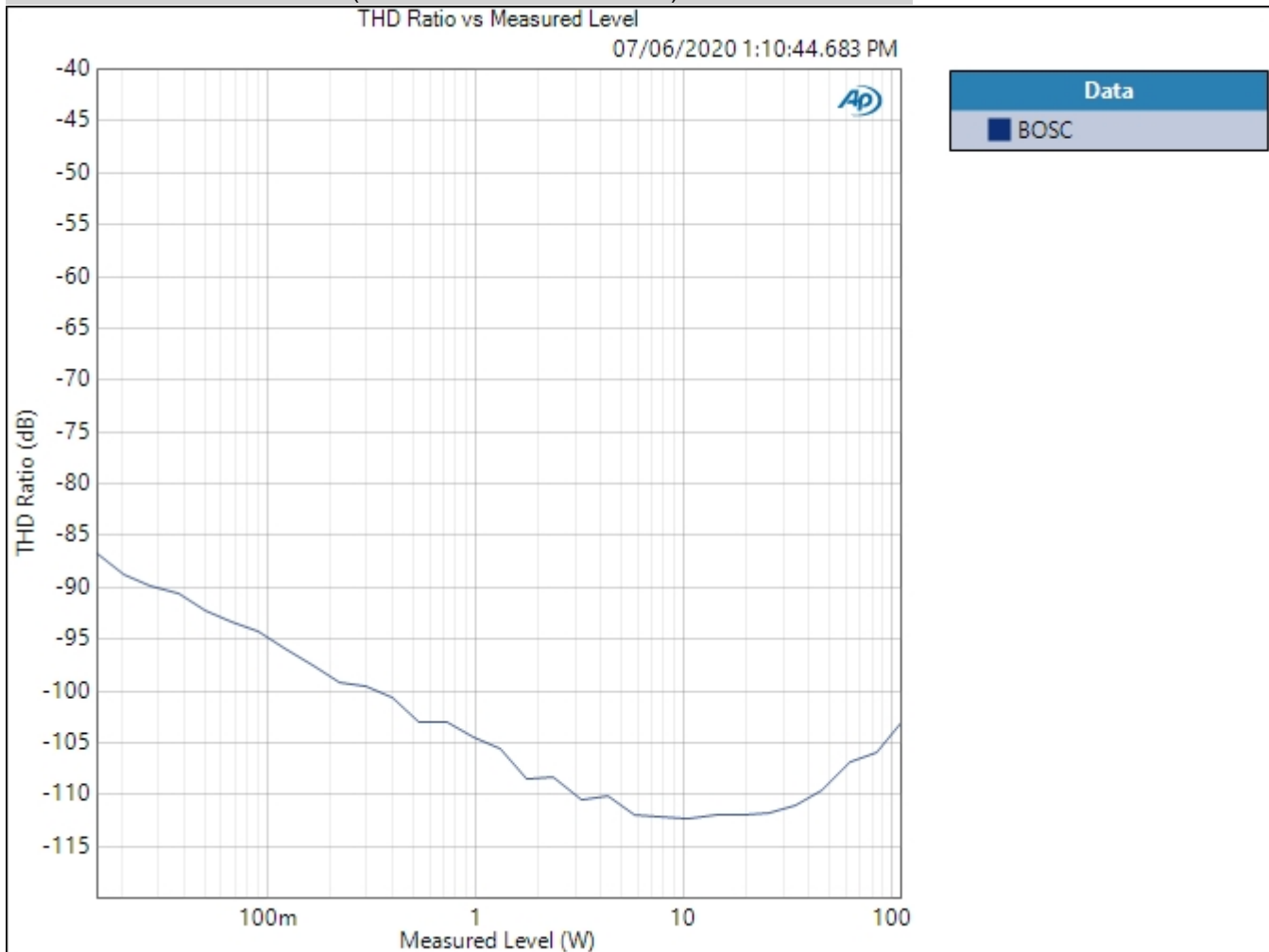
Result: PASSED

BOSC TEST

Signal Path1 : Stepped Level Sweep

Waveform: Sine
Generator Level: 0.000 Vrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Start Level: 50.00 mVrms
Stop Level: 4.250 Vrms
Step Type: Logarithmic
Number of Points: 31
Offset: 0.000 V
Low-pass Filter: 20 kHz
Weighting Filter: Signal Path
High-pass Filter: 20 Hz
Notch Tuning Mode: Generator Frequency
Measured 1 07/06/2020 1:10:44 PM

THD Ratio vs Measured Level (07/06/2020 1:10:44.683 PM)



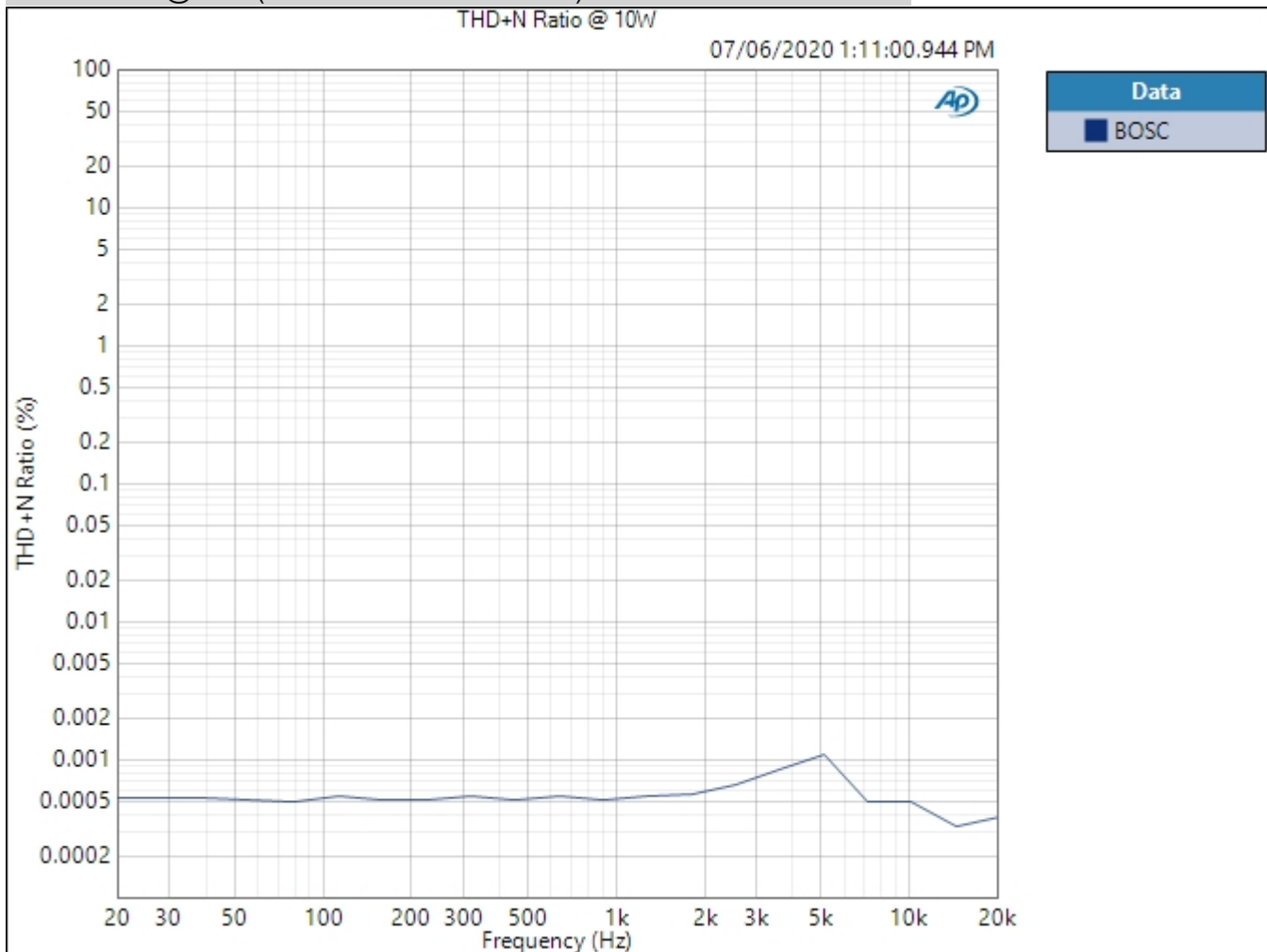
Result:  PASSED

BOSC TEST

Signal Path1 : Stepped Frequency Sweep

Generator Level: 1.300 Vrms
DC Offset: 0.000 V
EQ: None
Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Step Type: Logarithmic
Number of Points: 21
Low-pass Filter: 20 kHz
Weighting Filter: Signal Path
High-pass Filter: 20 Hz
Phase Ref Channel: Ch1
Measured 1 07/06/2020 1:11:00 PM

THD+N Ratio @ 10W (07/06/2020 1:11:00.944 PM)



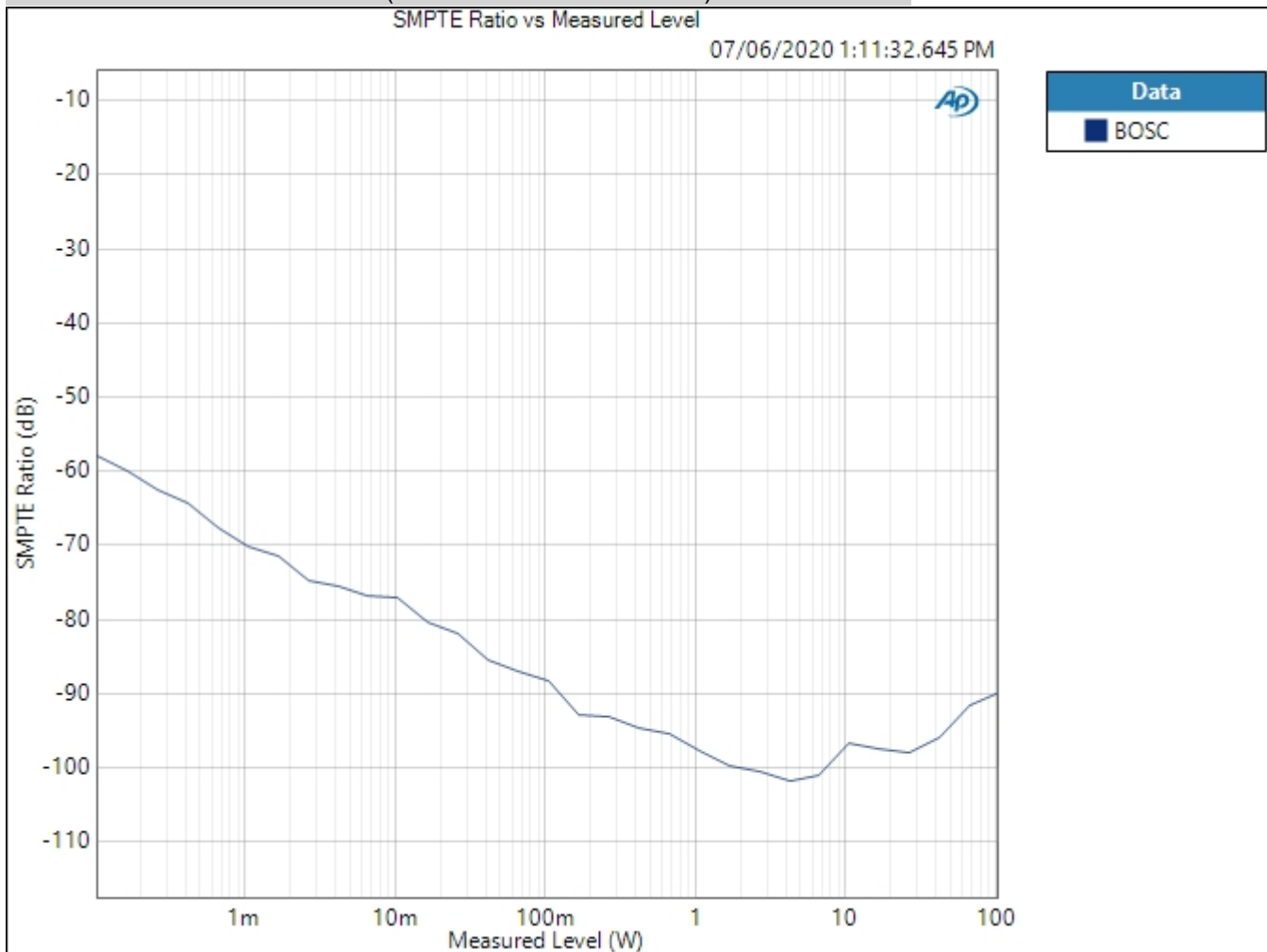
Result: PASSED

BOSC TEST

Signal Path1 : IMD Level Sweep (SMPTE)

IMD Type: SMPTE
Waveform: IMD
Generator Level: 5.000 Vrms
DC Offset: 0.000 V
Frequency 1: 60.0000 Hz
Frequency 2: 7.00000 kHz
Frequency Ratio: 4:1
IMD Split: False
Start Level: 5.000 mVrms
Stop Level: 5.000 Vrms
Step Type: Logarithmic
Number of Points: 31
Measured 1 07/06/2020 1:11:32 PM

SMPTE Ratio vs Measured Level (07/06/2020 1:11:32.645 PM)



Result: PASSED

7/6/2020 1:11 PM

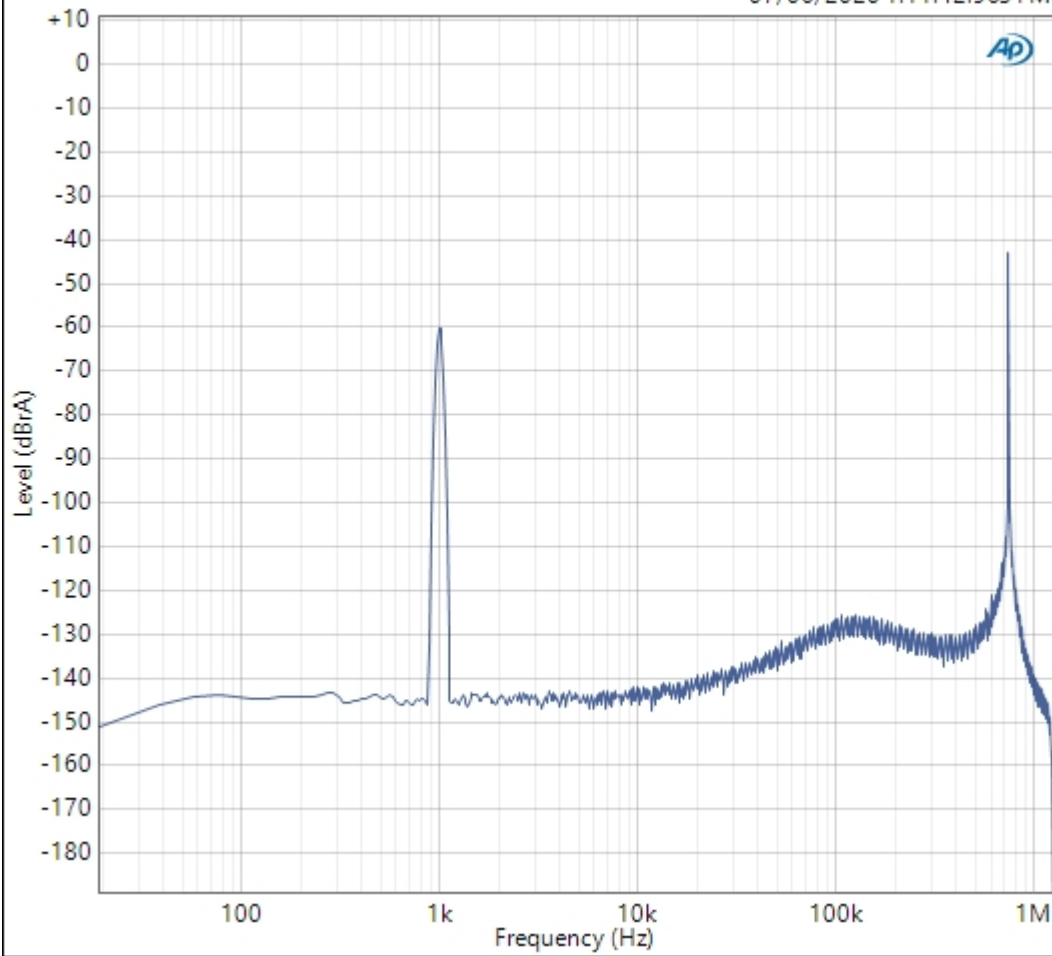
Signal Path 2 : Signal Analyzer

Waveform: Sine
Generator Level: 5.000 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 07/06/2020 1:11:42 PM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 128K
Averaging: Power
Averages: 25
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

Wideband FFT Spectrum -60dB Output (07/06/2020 1:11:42.963 PM)

Wideband FFT Spectrum -60dB Output

07/06/2020 1:11:42.963 PM

Result:  PASSED