

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 |
|-----------------|----------|

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. | |

Signal Path1 : Verify Connections

Waveform: Sine
Generator Level: 2.500 Vrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz

Gain (01/14/2020 5:46:01.836 PM)

BOSC 16.899 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. (01/14/2020 5:46:04.461 PM)

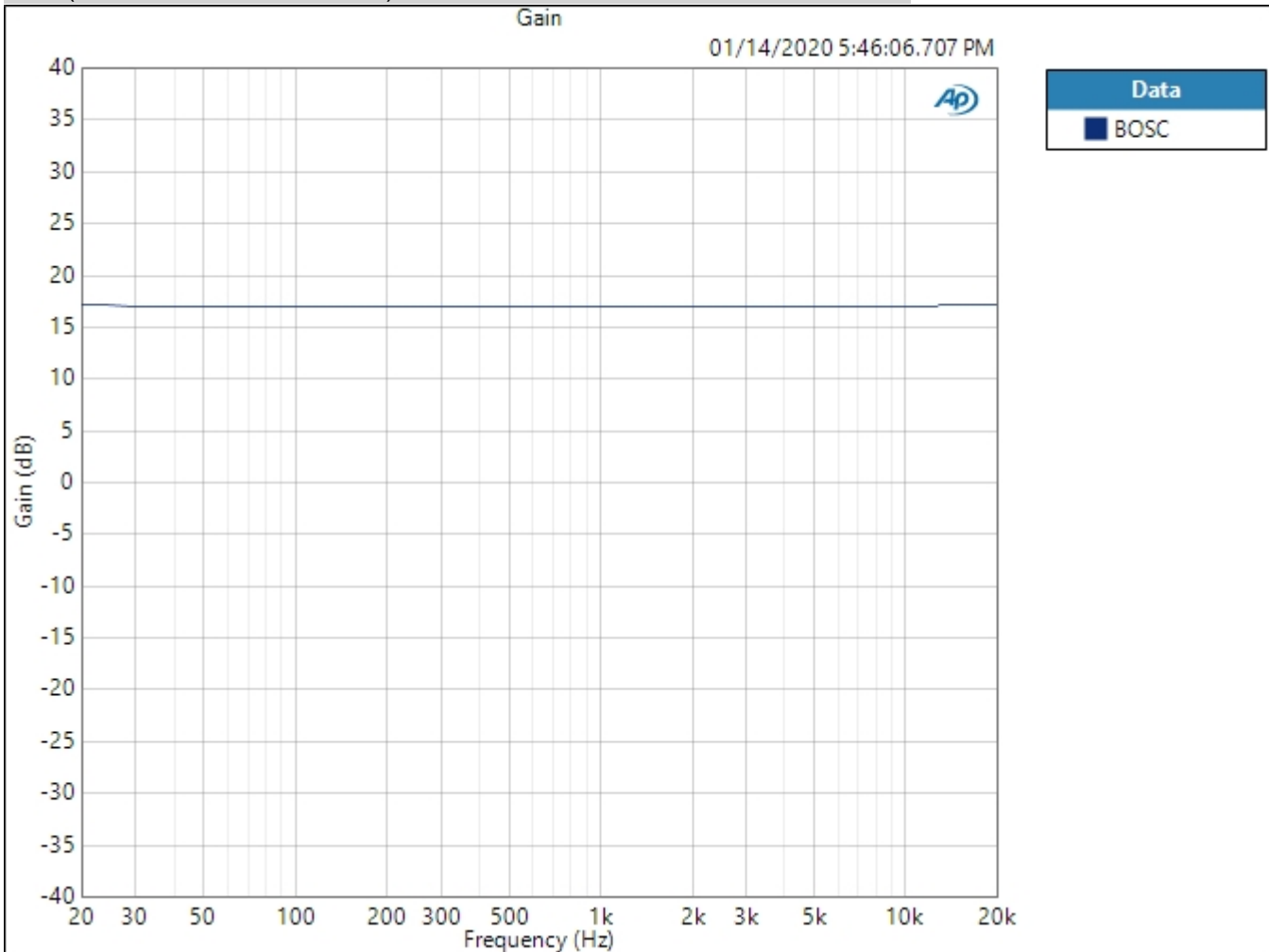
BOSC 121.346 dB

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 01/14/2020 5:46:06 PM

Gain (01/14/2020 5:46:06.707 PM)

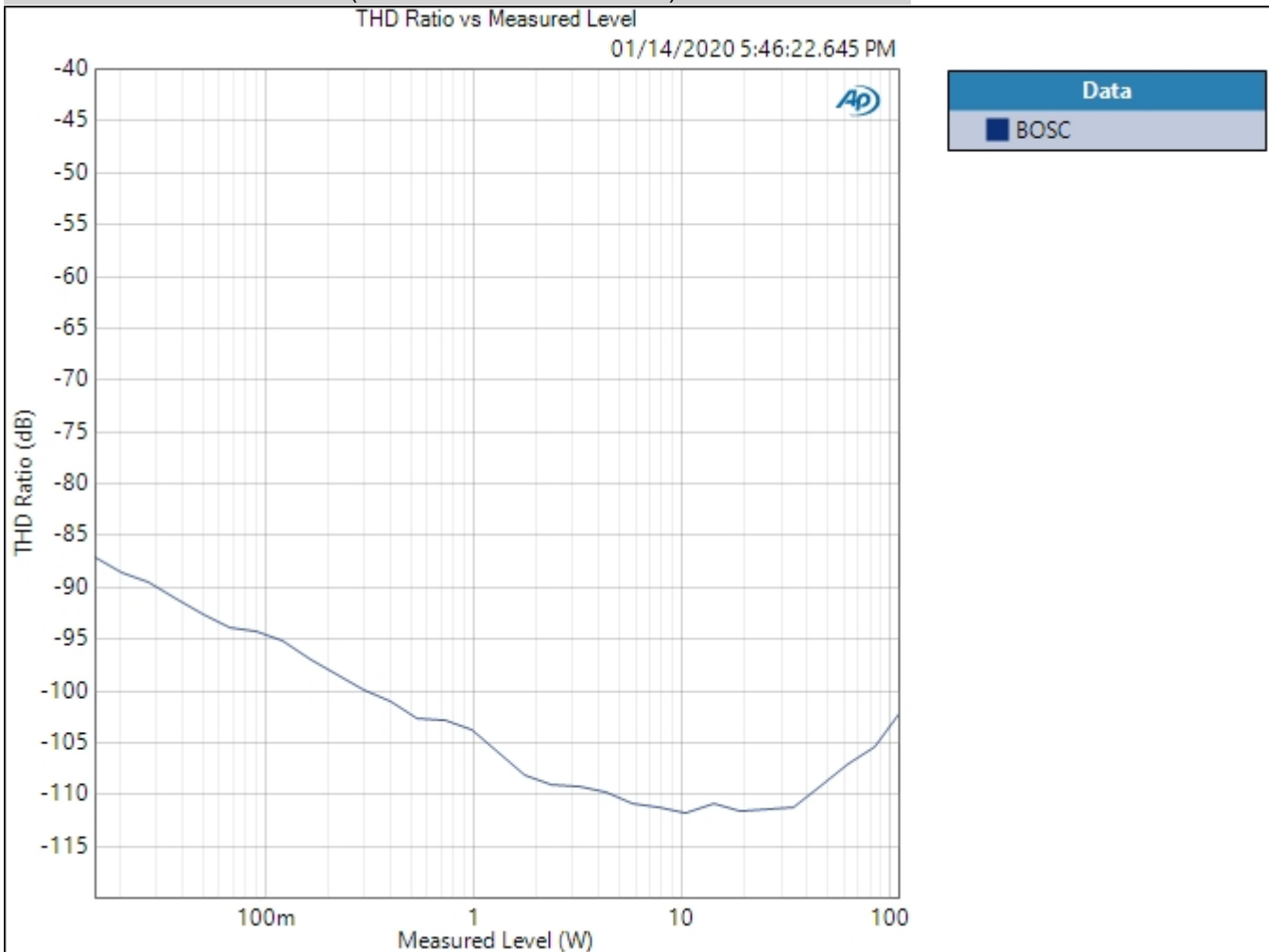


Result: PASSED

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 01/14/2020 5:46:22 PM

THD Ratio vs Measured Level (01/14/2020 5:46:22.645 PM)



Result:  PASSED

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 01/14/2020 5:46:39 PM

THD+N Ratio @ 10W (01/14/2020 5:46:39.537 PM)

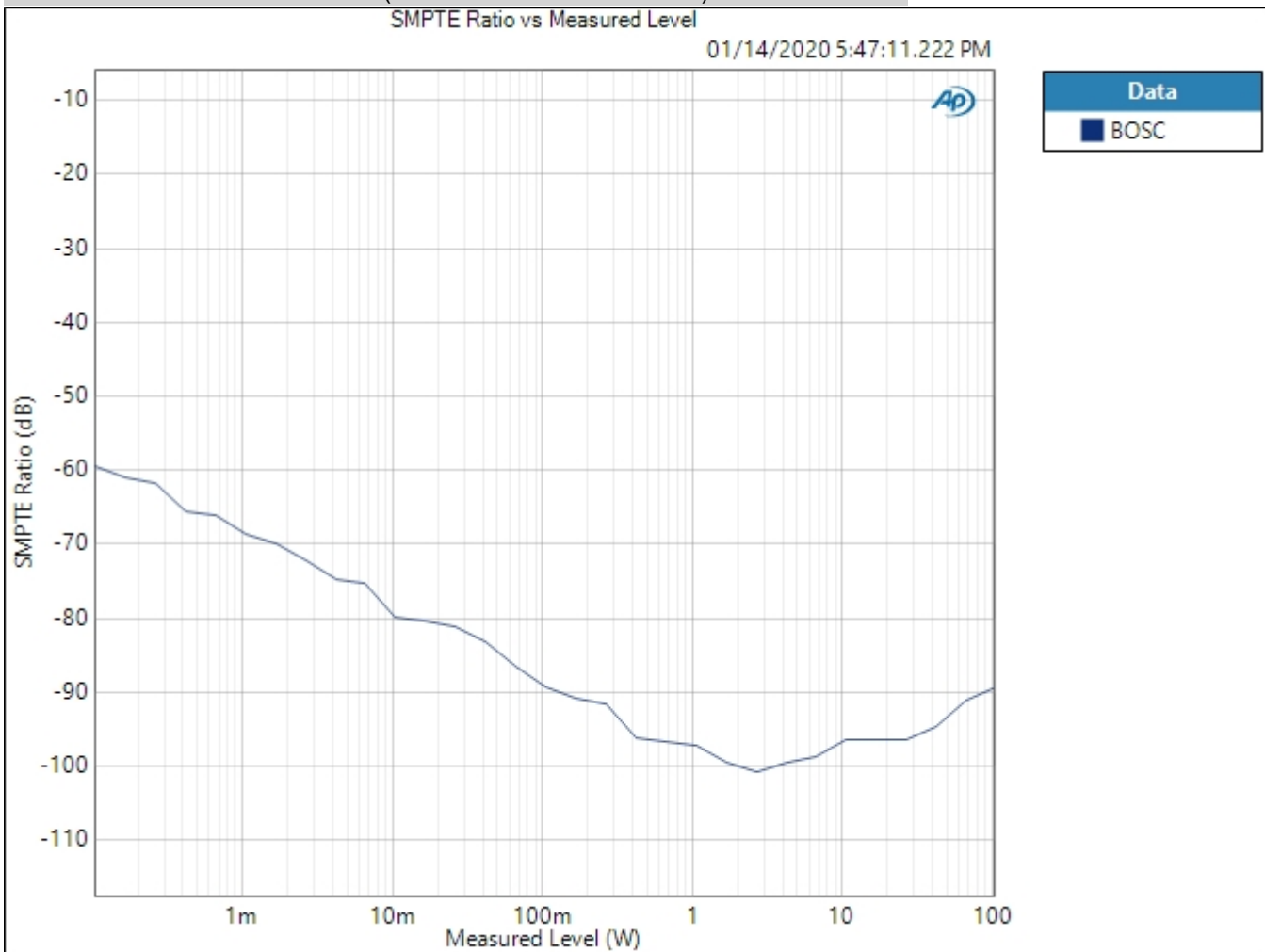


Result: PASSED

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 01/14/2020 5:47:11 PM

SMPTE Ratio vs Measured Level (01/14/2020 5:47:11.222 PM)



Result: PASSED

1/14/2020 5:47 PM

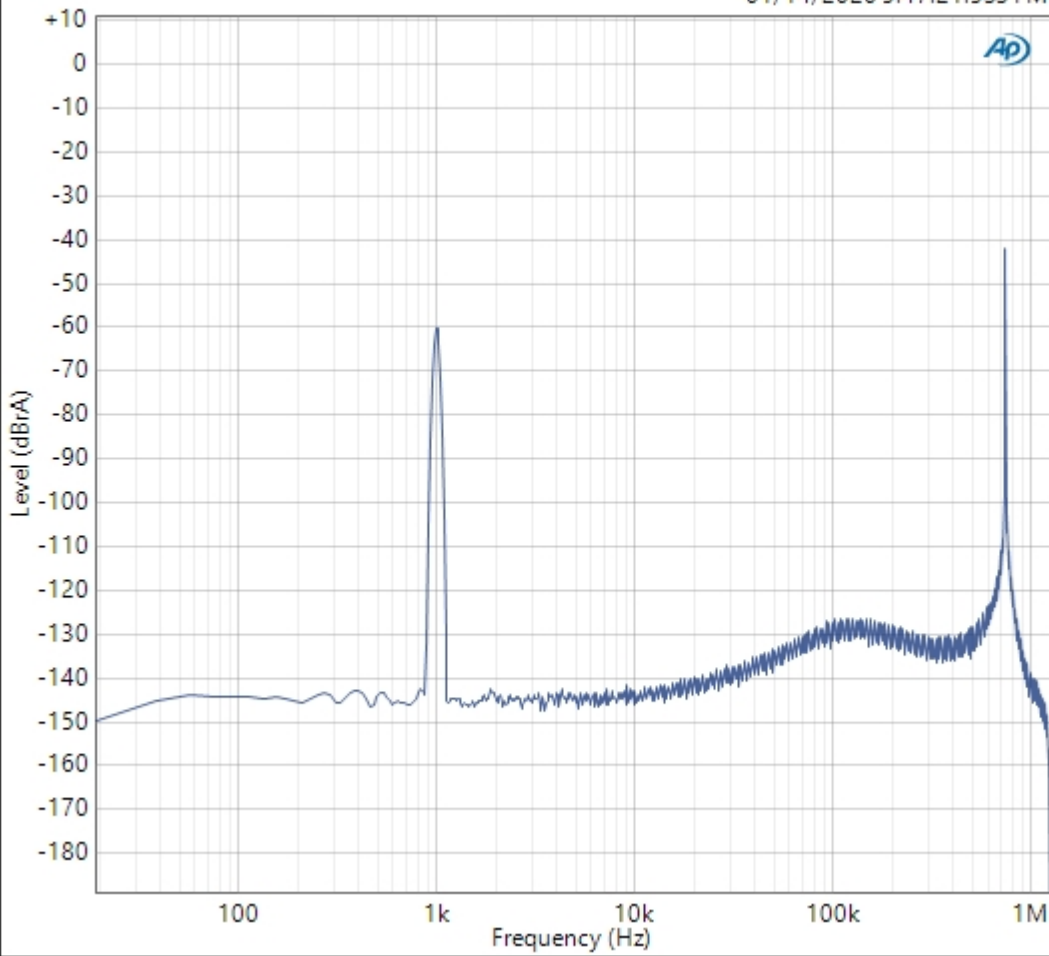
Signal Path 2 : Signal Analyzer

Waveform: Sine
Generator Level: 5.000 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 01/14/2020 5:47:21 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 (01/14/2020 5:47:21.533 PM)

Wideband FFT Spectrum -60dB Output

01/14/2020 5:47:21.533 PM



Result:  PASSED