

Sequence Report



Summary

Balanced Outputs 1

Balanced Outputs Level and THD	✓ PASSED
Volume Control -70	✓ PASSED
Volume Control -50	✓ PASSED
Volume Control -30	✓ PASSED
Volume Control -10	✓ PASSED
Volume Control +10	✓ PASSED
Mute Test	✓ PASSED
THD+N	✓ PASSED
IMD (SMPTE)	✓ PASSED
Signal to Noise Ratio	✓ PASSED
Continuous Sweep	✓ PASSED

HDMI 1 and 7.1 test

Signal Path Setup	✓ PASSED
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HDMI 2

Signal Path Setup	✓ PASSED
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HDMI 3

Signal Path Setup	✓ PASSED
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HDMI 4

Signal Path Setup	✓ PASSED
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HDMI 5

Signal Path Setup	✓ PASSED
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HDMI 6

Signal Path Setup	✓ PASSED
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HDMI 7

Signal Path Setup	✓ PASSED
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HDMI 8

Signal Path Setup	✓ PASSED
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Dolby 5.1

Signal Path Setup	✓ PASSED
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Coax In/Balanced Out


Coax 1	✓ PASSED
Coax 2	✓ PASSED
Coax 3	✓ PASSED
Coax 4	✓ PASSED

Coax in to Coax out

Signal Path Setup	✓ PASSED
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AES/EBU

Signal Path Setup	✓ PASSED
Optical In/Balanced Out	
Optical 1	✓ PASSED
Optical 2	✓ PASSED
Optical 3	✓ PASSED
Optical 4	✓ PASSED
Optical in to Optical out	
Signal Path Setup	✓ PASSED
ARC	
Level and Gain	✓ PASSED
USB	
Signal Path Setup	✓ PASSED
Tuner	
Level and Gain	✓ PASSED
Analog in /Balanced Out	
Analog 1	✓ PASSED
Analog 2	✓ PASSED
Analog 3	✓ PASSED
Balanced input	
Signal Path Setup	✓ PASSED
Front Input	
Signal Path Setup	✓ PASSED
Zone2 output	
Signal Path Setup	✓ PASSED
Headphone output	
Signal Path Setup	✓ PASSED
Interchannel Phase	✓ PASSED
Atmos Surround	
Signal Path Setup	✓ PASSED
Signal to Noise Ratio	✓ PASSED
Level test Height Outputs	
Balanced Outputs 1	✓ PASSED
Volume Control -70	✓ PASSED
Volume Control -30	✓ PASSED
Volume Control +10	✓ PASSED
Mute Test	✓ PASSED
THD+N	✓ PASSED
IMD (SMPTE)	✓ PASSED
Continuous Sweep	✓ PASSED
Signal to Noise Ratio	✓ PASSED
Sequence Result:	

Sequence Result:  PASSED

Sequence Report



Balanced Outputs 1 : Signal Path Setup

Output Connector:	HDMI Source
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Enabled
HDMI Receiver Status:	Read successful
Audio Format:	Linear 8Ch Layout1
Status Bits:	Auto (Consumer)
Speaker Allocation:	FL FR LFE FC RL RR RLC RRC
Video Format:	1920x1080p @ 60 Hz
Color Depth:	10 Bit
HDCP Encryption:	Yes
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	8
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
dBrA:	+0.388 dBV
dBrB:	-20.000 dBV
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.

Sequence Report



Balanced Outputs 1 : Balanced Outputs Level and THD

Waveform: Sine, Dual
 Generator Level: -11.000 dBFS
 DC Offset: 0.000 D
 Frequency A: 1.00000 kHz
 Frequency B: 30.0000 Hz
 IMD Split: Yes
 FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:13:39.808 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	-2.000 dBV	+0.741 dBV	+5.828 dBV	✓
RIGHT FRONT	-2.000 dBV	+0.727 dBV	+5.828 dBV	✓
CENTER SUB	+4.356 dBV	+10.672 dBV	+13.920 dBV	✓
CENTER	-2.000 dBV	+0.761 dBV	+5.828 dBV	✓
LEFT SURROUND	-2.000 dBV	+0.732 dBV	+5.828 dBV	✓
RIGHT SURROUND	-2.000 dBV	+0.767 dBV	+5.828 dBV	✓
LEFT BACK	-2.000 dBV	+0.749 dBV	+5.828 dBV	✓
RIGHT BACK	-2.000 dBV	+0.679 dBV	+5.828 dBV	✓

Result: ✓ PASSED

THD+N Ratio (8/13/2021 12:13:39.808 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	---- %	0.010482 %	0.100000 %	✓
RIGHT FRONT	---- %	0.008530 %	0.100000 %	✓
CENTER SUB	---- %	0.014912 %	---- %	✓
CENTER	---- %	0.008620 %	0.100000 %	✓
LEFT SURROUND	---- %	0.010680 %	0.100000 %	✓
RIGHT SURROUND	---- %	0.008736 %	0.100000 %	✓
LEFT BACK	---- %	0.010809 %	0.100000 %	✓
RIGHT BACK	---- %	0.008595 %	0.100000 %	✓

Result: ✓ PASSED

Sequence Report



Balanced Outputs 1 : Volume Control -70

Waveform: Sine, Dual
Generator Level: -13.000 dBFS
DC Offset: 0.000 D
Frequency A: 1.00000 kHz
Frequency B: 30.0000 Hz
IMD Split: Yes
FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:13:48.325 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	-73.000 dBV	-70.490 dBV	-67.000 dBV	✓
RIGHT FRONT	-73.000 dBV	-70.330 dBV	-67.000 dBV	✓
CENTER SUB	-63.000 dBV	-60.567 dBV	-57.000 dBV	✓
CENTER	-73.000 dBV	-70.433 dBV	-67.000 dBV	✓
LEFT SURROUND	-73.000 dBV	-70.290 dBV	-67.000 dBV	✓
RIGHT SURROUND	-73.000 dBV	-70.421 dBV	-67.000 dBV	✓
LEFT BACK	-73.000 dBV	-70.491 dBV	-67.000 dBV	✓
RIGHT BACK	-73.000 dBV	-70.422 dBV	-67.000 dBV	✓

Result: ✓ PASSED

Sequence Report



Balanced Outputs 1 : Volume Control -50

Waveform: Sine, Dual
Generator Level: -13.000 dBFS
DC Offset: 0.000 D
Frequency A: 1.00000 kHz
Frequency B: 30.0000 Hz
IMD Split: Yes
FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:13:55.326 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	-53.000 dBV	-50.656 dBV	-47.000 dBV	✓
RIGHT FRONT	-53.000 dBV	-50.676 dBV	-47.000 dBV	✓
CENTER SUB	-43.000 dBV	-40.853 dBV	-37.000 dBV	✓
CENTER	-53.000 dBV	-50.659 dBV	-47.000 dBV	✓
LEFT SURROUND	-53.000 dBV	-50.664 dBV	-47.000 dBV	✓
RIGHT SURROUND	-53.000 dBV	-50.645 dBV	-47.000 dBV	✓
LEFT BACK	-53.000 dBV	-50.680 dBV	-47.000 dBV	✓
RIGHT BACK	-53.000 dBV	-50.719 dBV	-47.000 dBV	✓

Result: ✓ PASSED

Sequence Report



Balanced Outputs 1 : Volume Control -30

Waveform: Sine, Dual
Generator Level: -12.000 dBFS
DC Offset: 0.000 D
Frequency A: 1.00000 kHz
Frequency B: 100.000 Hz
IMD Split: Yes
FB:FA Ratio: 1.000 x/y
Low-pass Filter: 10 kHz

RMS Level (8/13/2021 12:14:06.791 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	-32.000 dBV	-29.760 dBV	-27.000 dBV	✓
RIGHT FRONT	-32.000 dBV	-29.873 dBV	-27.000 dBV	✓
CENTER SUB	-30.000 dBV	-27.154 dBV	-24.000 dBV	✓
CENTER	-32.000 dBV	-29.834 dBV	-27.000 dBV	✓
LEFT SURROUND	-32.000 dBV	-29.876 dBV	-27.000 dBV	✓
RIGHT SURROUND	-32.000 dBV	-29.752 dBV	-27.000 dBV	✓
LEFT BACK	-32.000 dBV	-29.833 dBV	-27.000 dBV	✓
RIGHT BACK	-32.000 dBV	-29.879 dBV	-27.000 dBV	✓

Result: ✓ PASSED

Sequence Report



Balanced Outputs 1 : Volume Control -10

Waveform: Sine, Dual
Generator Level: -12.000 dBFS
DC Offset: 0.000 D
Frequency A: 1.00000 kHz
Frequency B: 30.0000 Hz
IMD Split: Yes
FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:14:14.564 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	-12.000 dBV	-10.187 dBV	-8.000 dBV	✓
RIGHT FRONT	-12.000 dBV	-10.218 dBV	-8.000 dBV	✓
CENTER SUB	-3.000 dBV	-0.307 dBV	+3.000 dBV	✓
CENTER	-12.000 dBV	-10.183 dBV	-8.000 dBV	✓
LEFT SURROUND	-12.000 dBV	-10.227 dBV	-8.000 dBV	✓
RIGHT SURROUND	-12.000 dBV	-10.159 dBV	-8.000 dBV	✓
LEFT BACK	-12.000 dBV	-10.201 dBV	-8.000 dBV	✓
RIGHT BACK	-12.000 dBV	-10.257 dBV	-8.000 dBV	✓

Result: ✓ PASSED

Sequence Report



Balanced Outputs 1 : Volume Control +10

Waveform: Sine, Dual
Generator Level: -12.000 dBFS
DC Offset: 0.000 D
Frequency A: 1.00000 kHz
Frequency B: 30.0000 Hz
IMD Split: Yes
FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:14:22.014 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	+8.000 dBV	+9.710 dBV	+12.000 dBV	✓
RIGHT FRONT	+8.000 dBV	+9.698 dBV	+12.000 dBV	✓
CENTER SUB	+17.000 dBV	+19.551 dBV	+23.000 dBV	✓
CENTER	+8.000 dBV	+9.730 dBV	+12.000 dBV	✓
LEFT SURROUND	+8.000 dBV	+9.714 dBV	+12.000 dBV	✓
RIGHT SURROUND	+8.000 dBV	+9.735 dBV	+12.000 dBV	✓
LEFT BACK	+8.000 dBV	+9.720 dBV	+12.000 dBV	✓
RIGHT BACK	+8.000 dBV	+9.641 dBV	+12.000 dBV	✓

Result: ✓ PASSED

Sequence Report



Balanced Outputs 1 : Mute Test

Waveform: Sine, Dual
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
Frequency A: 1.00000 kHz
Frequency B: 30.0000 Hz
IMD Split: Yes
FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:14:37.909 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	---- dBV	-97.042 dBV	-85.000 dBV	✓
RIGHT FRONT	---- dBV	-96.089 dBV	-85.000 dBV	✓
CENTER SUB	---- dBV	-92.271 dBV	-85.000 dBV	✓
CENTER	---- dBV	-97.114 dBV	-85.000 dBV	✓
LEFT SURROUND	---- dBV	-96.160 dBV	-85.000 dBV	✓
RIGHT SURROUND	---- dBV	-96.903 dBV	-85.000 dBV	✓
LEFT BACK	---- dBV	-97.039 dBV	-85.000 dBV	✓
RIGHT BACK	---- dBV	-96.986 dBV	-85.000 dBV	✓

Result: ✓ PASSED

Sequence Report



Balanced Outputs 1 : THD+N

Waveform: Sine, Dual
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Frequency B: 40.0000 Hz
IMD Split: Yes
FB:FA Ratio: 1.000 x/y
Weighting Filter: A-wt.
Notch Tuning Mode: Measured Frequency

THD Ratio (8/13/2021 12:14:44.215 PM)

Channel	Lower Limit	Value	Upper Limit	
LSub	---- %	0.001558 %	0.005000 %	✓
CSub	---- %	0.002126 %	0.005000 %	✓
RSub	---- %	0.000362 %	0.005000 %	✓
LRHeight	---- %	0.002350 %	0.005000 %	✓
LFHeight	---- %	0.001601 %	0.005000 %	✓
LRear	---- %	0.002135 %	0.005000 %	✓
LSurr	---- %	0.001589 %	0.005000 %	✓
LWidth	---- %	0.002113 %	0.005000 %	✓

Result: ✓ PASSED

Sequence Report



Balanced Outputs 1 : IMD (SMPTE)

IMD Type: SMPTE
Waveform: IMD
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
Frequency 1: 60.0000 Hz
Frequency 2: 7.00000 kHz
Frequency Ratio: 4:1
IMD Split: False

SMPTE Ratio (8/13/2021 12:14:47.210 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	---- %	0.002980 %	0.010000 %	✓
RIGHT FRONT	---- %	0.003150 %	0.010000 %	✓
CENTER SUB	---- %	0.004159 %	---- %	✓
CENTER	---- %	0.002995 %	0.010000 %	✓
LEFT SURROUND	---- %	0.002678 %	0.010000 %	✓
RIGHT SURROUND	---- %	0.002984 %	0.010000 %	✓
LEFT BACK	---- %	0.002872 %	0.010000 %	✓
RIGHT BACK	---- %	0.003074 %	0.010000 %	✓

Result: ✓ PASSED

Sequence Report



Balanced Outputs 1 : Signal to Noise Ratio

Waveform: Sine, Dual
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Frequency B: 30.0000 Hz
IMD Split: Yes
FB:FA Ratio: 1.000 x/y
Weighting Filter: A-wt.

Signal to Noise Ratio (8/13/2021 12:14:50.158 PM)

Channel	Lower Limit	Value	Upper Limit	
LSub	96.000 dB	99.683 dB	---- dB	✓
CSub	96.000 dB	99.767 dB	---- dB	✓
RSub	89.000 dB	93.111 dB	---- dB	✓
LRHeight	96.000 dB	99.765 dB	---- dB	✓
LFHeight	96.000 dB	99.549 dB	---- dB	✓
LRear	96.000 dB	99.830 dB	---- dB	✓
LSurr	96.000 dB	99.468 dB	---- dB	✓
LWidth	96.000 dB	99.735 dB	---- dB	✓

Result: ✓ PASSED

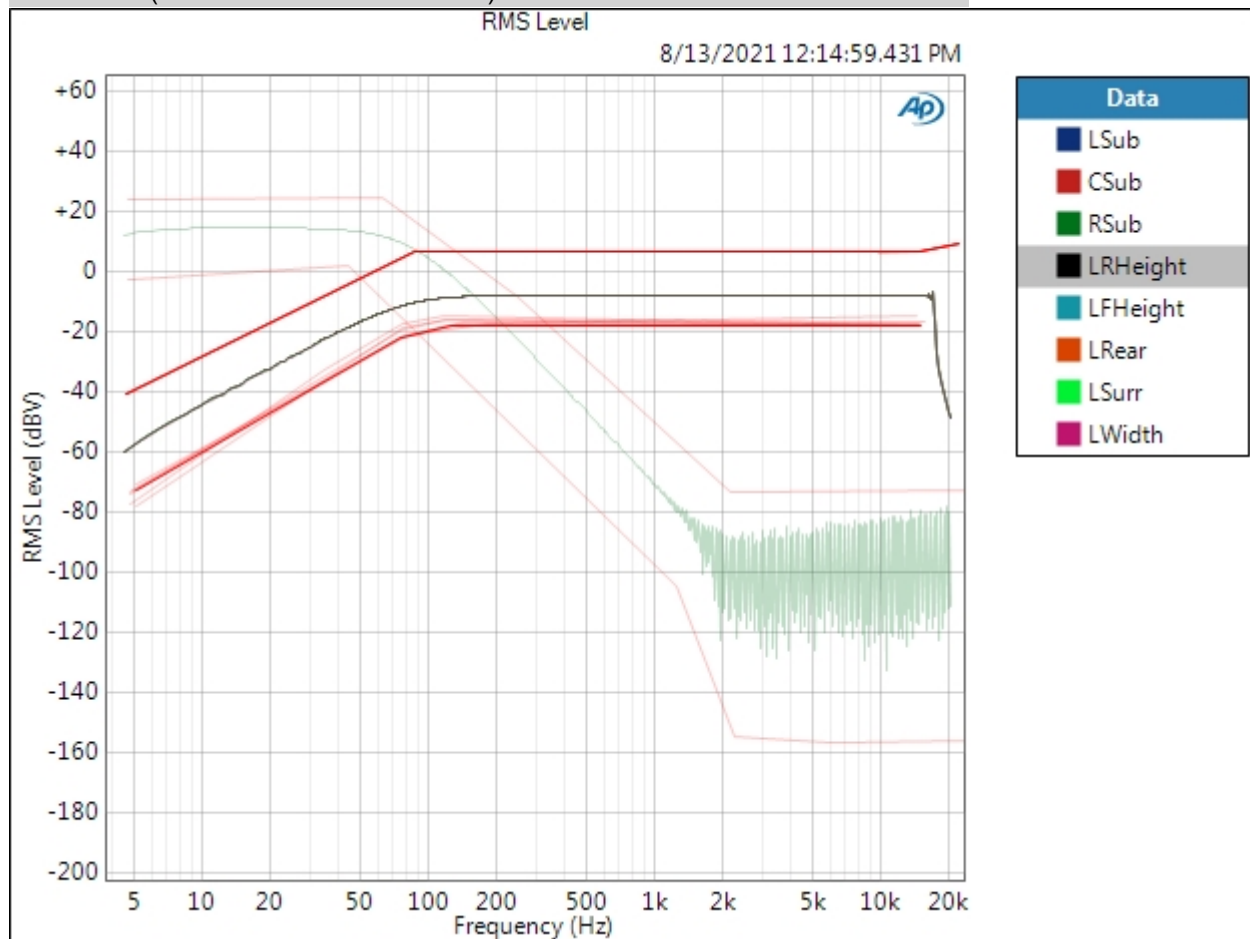
Sequence Report



Balanced Outputs 1 : Continuous Sweep

Start Frequency: 5.00000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
EQ: None
Pre-Sweep: 1.000 s
Sweep: 2.000 s
Measured 1 8/13/2021 12:14:59 PM
Extend Acquisition By: 0.000 s
Crosstalk Type: None
Secondary Source: None

RMS Level (8/13/2021 12:14:59.431 PM)



LSub PASSED

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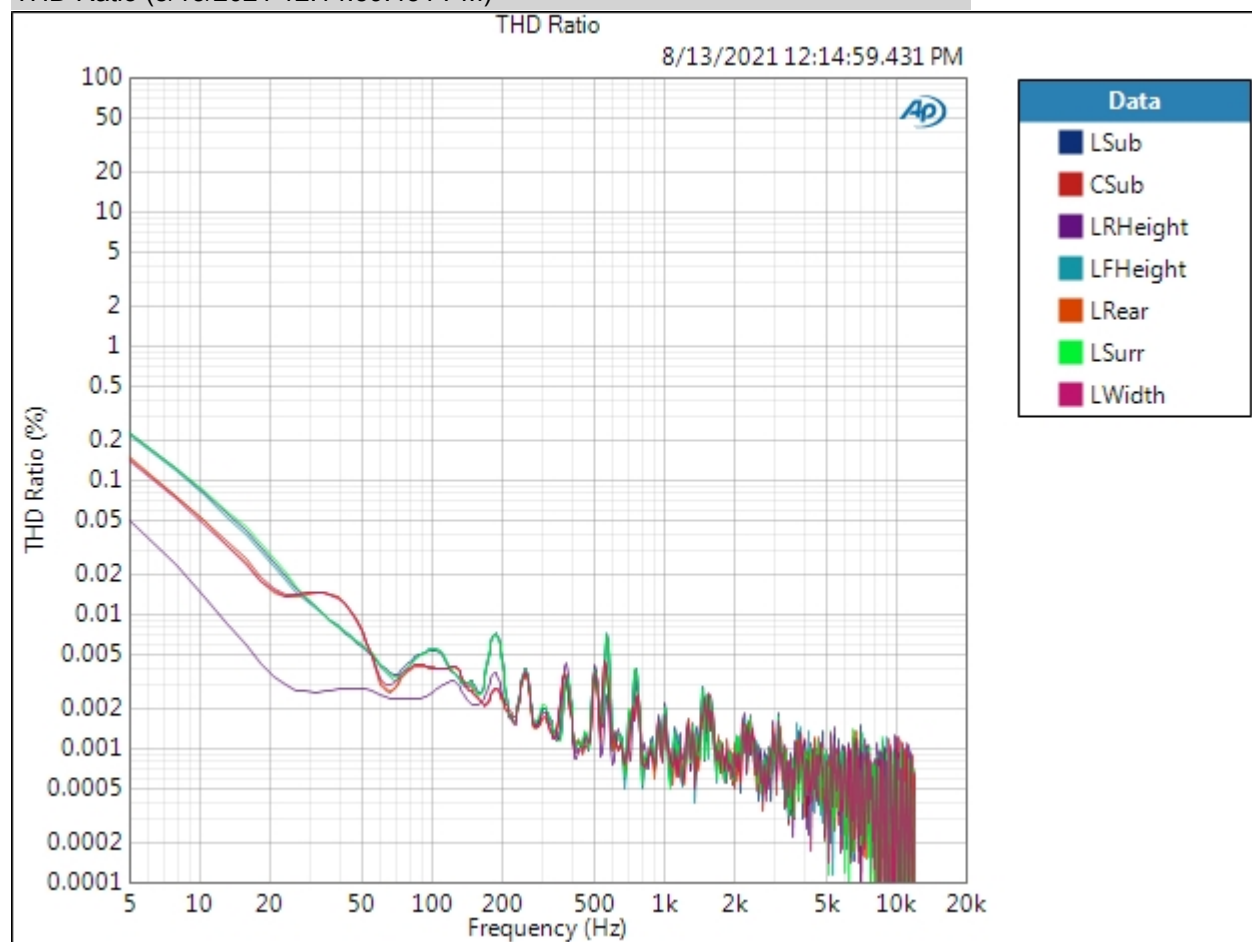
Sequence Report



CSub ✓ PASSED
RSub ✓ PASSED
LRHeight ✓ PASSED
LFHeight ✓ PASSED
LRear ✓ PASSED
LSurr ✓ PASSED
LWidth ✓ PASSED

Result: ✓ PASSED

THD Ratio (8/13/2021 12:14:59.431 PM)



Result: ✓ PASSED

Sequence Report



HDMI 1 and 7.1 test : Signal Path Setup

Output Connector:	HDMI Source
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Disabled
HDMI Receiver Status:	Read successful
Audio Format:	Linear 8Ch Layout1
Status Bits:	
Application:	Consumer
Audio Mode:	Audio
Emphasis:	None
Sampling Frequency:	48 kHz
Channel Number:	Don't Care
Copyright:	Copyright
Channel Status Mode:	Mode 0
Category Code:	General
Source Number:	Don't Care
Clock Accuracy:	Level I
Word Length:	24 Bits
Sample Word Length:	24 Bits
Orig Sample Freq:	Not Indicated
Speaker Allocation:	FL FR LFE FC RL RR RLC RRC
Video Format:	1920x1080p @ 50 Hz
Color Depth:	8 Bit
HDCP Encryption:	No
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	8
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	177.7 ms
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
dBrA:	1.000 Vrms

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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.	

Sequence Report



HDMI 1 and 7.1 test : Verify Connections

Waveform: Sine, Dual
 Generator Level: -20.000 dBFS
 DC Offset: 0.000 D
 Frequency A: 1.00000 kHz
 Frequency B: 160.000 Hz
 IMD Split: Yes
 FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:15:14.408 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	-9.000 dBm	-6.044 dBm	-3.000 dBm	✓
RIGHT FRONT	-9.000 dBm	-6.058 dBm	-3.000 dBm	✓
CENTER SUB	-17.000 dBm	-14.583 dBm	-11.500 dBm	✓
CENTER	-9.000 dBm	-6.024 dBm	-3.000 dBm	✓
LEFT SURROUND	-9.000 dBm	-6.054 dBm	-3.000 dBm	✓
RIGHT SURROUND	-9.000 dBm	-6.018 dBm	-3.000 dBm	✓
LEFT BACK	-9.000 dBm	-6.036 dBm	-3.000 dBm	✓
RIGHT BACK	-9.000 dBm	-6.106 dBm	-3.000 dBm	✓

Result: ✓ PASSED

THD+N Ratio (8/13/2021 12:15:14.408 PM)

Channel	Lower Limit	Value	Upper Limit	
Ch1	---- %	0.012858 %	0.300000 %	✓
Ch2	---- %	0.009244 %	0.300000 %	✓
Ch3	---- %	0.123165 %	0.300000 %	✓
Ch4	---- %	0.009789 %	0.300000 %	✓
Ch5	---- %	0.011849 %	0.300000 %	✓
Ch6	---- %	0.009996 %	0.300000 %	✓
Ch7	---- %	0.013635 %	0.300000 %	✓
Ch8	---- %	0.010332 %	0.300000 %	✓

Result: ✓ PASSED

Sequence Report



HDMI 2 : Signal Path Setup

Output Connector:	HDMI Source
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Disabled
HDMI Receiver Status:	Read successful
Audio Format:	Linear 8Ch Layout1
Status Bits:	
Application:	Consumer
Audio Mode:	Audio
Emphasis:	None
Sampling Frequency:	48 kHz
Channel Number:	Don't Care
Copyright:	Copyright
Channel Status Mode:	Mode 0
Category Code:	General
Source Number:	Don't Care
Clock Accuracy:	Level I
Word Length:	24 Bits
Sample Word Length:	24 Bits
Orig Sample Freq:	Not Indicated
Speaker Allocation:	FL FR LFE FC RL RR RLC RRC
Video Format:	1920x1080p @ 50 Hz
Color Depth:	8 Bit
HDCP Encryption:	No
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	8
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	177.7 ms
Input EQ:	None
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
dBrA:	1.000 Vrms

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dBrB: 1.000 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): 8.000 ohm

• DCX

DCX is not detected.

HDMI 2 : Verify Connections

Waveform: Sine, Dual
 Generator Level: -20.000 dBFS
 DC Offset: 0.000 D
 Frequency A: 1.00000 kHz
 Frequency B: 160.000 Hz
 IMD Split: Yes
 FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:15:38.862 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	-9.000 dBm	-6.044 dBm	-3.000 dBm	✓
RIGHT FRONT	-9.000 dBm	-6.059 dBm	-3.000 dBm	✓
CENTER SUB	-17.000 dBm	-14.584 dBm	-11.500 dBm	✓
CENTER	-9.000 dBm	-6.024 dBm	-3.000 dBm	✓
LEFT SURROUND	-9.000 dBm	-6.055 dBm	-3.000 dBm	✓
RIGHT SURROUND	-9.000 dBm	-6.019 dBm	-3.000 dBm	✓
LEFT BACK	-9.000 dBm	-6.037 dBm	-3.000 dBm	✓
RIGHT BACK	-9.000 dBm	-6.106 dBm	-3.000 dBm	✓

Result: ✓ PASSED

Sequence Report



HDMI 3 : Signal Path Setup

Output Connector:	HDMI Source
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Disabled
HDMI Receiver Status:	Read successful
Audio Format:	Linear 8Ch Layout1
Status Bits:	
Application:	Consumer
Audio Mode:	Audio
Emphasis:	None
Sampling Frequency:	48 kHz
Channel Number:	Don't Care
Copyright:	Copyright
Channel Status Mode:	Mode 0
Category Code:	General
Source Number:	Don't Care
Clock Accuracy:	Level I
Word Length:	24 Bits
Sample Word Length:	24 Bits
Orig Sample Freq:	Not Indicated
Speaker Allocation:	FL FR LFE FC RL RR RLC RRC
Video Format:	1920x1080p @ 50 Hz
Color Depth:	8 Bit
HDCP Encryption:	No
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	8
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	177.7 ms
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
dBrA:	1.000 Vrms

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dBrB: 1.000 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): 8.000 ohm

• DCX

DCX is not detected.

HDMI 3 : Verify Connections

Waveform: Sine, Dual
 Generator Level: -20.000 dBFS
 DC Offset: 0.000 D
 Frequency A: 1.00000 kHz
 Frequency B: 160.000 Hz
 IMD Split: Yes
 FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:15:53.129 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	-9.000 dBm	-6.045 dBm	-3.000 dBm	✓
RIGHT FRONT	-9.000 dBm	-6.059 dBm	-3.000 dBm	✓
CENTER SUB	-17.000 dBm	-14.584 dBm	-11.500 dBm	✓
CENTER	-9.000 dBm	-6.025 dBm	-3.000 dBm	✓
LEFT SURROUND	-9.000 dBm	-6.055 dBm	-3.000 dBm	✓
RIGHT SURROUND	-9.000 dBm	-6.019 dBm	-3.000 dBm	✓
LEFT BACK	-9.000 dBm	-6.037 dBm	-3.000 dBm	✓
RIGHT BACK	-9.000 dBm	-6.106 dBm	-3.000 dBm	✓

Result: ✓ PASSED

Sequence Report



HDMI 4 : Signal Path Setup

Output Connector:	HDMI Source
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Disabled
HDMI Receiver Status:	Read successful
Audio Format:	Linear 8Ch Layout1
Status Bits:	
Application:	Consumer
Audio Mode:	Audio
Emphasis:	None
Sampling Frequency:	48 kHz
Channel Number:	Don't Care
Copyright:	Copyright
Channel Status Mode:	Mode 0
Category Code:	General
Source Number:	Don't Care
Clock Accuracy:	Level I
Word Length:	24 Bits
Sample Word Length:	24 Bits
Orig Sample Freq:	Not Indicated
Speaker Allocation:	FL FR LFE FC RL RR RLC RRC
Video Format:	1920x1080p @ 50 Hz
Color Depth:	8 Bit
HDCP Encryption:	No
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	8
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	177.7 ms
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
dBrA:	1.000 Vrms

8/13/2021 12:23 PM

Sequence Report



dBrB: 1.000 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): 8.000 ohm
 • DCX
 DCX is not detected.

HDMI 4 : Verify Connections

Waveform: Sine, Dual
 Generator Level: -20.000 dBFS
 DC Offset: 0.000 D
 Frequency A: 1.00000 kHz
 Frequency B: 160.000 Hz
 IMD Split: Yes
 FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:16:07.483 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	-9.000 dBm	-6.045 dBm	-3.000 dBm	✓
RIGHT FRONT	-9.000 dBm	-6.059 dBm	-3.000 dBm	✓
CENTER SUB	-17.000 dBm	-14.584 dBm	-11.500 dBm	✓
CENTER	-9.000 dBm	-6.025 dBm	-3.000 dBm	✓
LEFT SURROUND	-9.000 dBm	-6.056 dBm	-3.000 dBm	✓
RIGHT SURROUND	-9.000 dBm	-6.019 dBm	-3.000 dBm	✓
LEFT BACK	-9.000 dBm	-6.037 dBm	-3.000 dBm	✓
RIGHT BACK	-9.000 dBm	-6.106 dBm	-3.000 dBm	✓

Result: ✓ PASSED

Sequence Report



HDMI 5 : Signal Path Setup

Output Connector:	HDMI Source
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Disabled
HDMI Receiver Status:	Read successful
Audio Format:	Linear 8Ch Layout1
Status Bits:	
Application:	Consumer
Audio Mode:	Audio
Emphasis:	None
Sampling Frequency:	48 kHz
Channel Number:	Don't Care
Copyright:	Copyright
Channel Status Mode:	Mode 0
Category Code:	General
Source Number:	Don't Care
Clock Accuracy:	Level I
Word Length:	24 Bits
Sample Word Length:	24 Bits
Orig Sample Freq:	Not Indicated
Speaker Allocation:	FL FR LFE FC RL RR RLC RRC
Video Format:	1920x1080p @ 50 Hz
Color Depth:	8 Bit
HDCP Encryption:	No
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	8
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	177.7 ms
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
dBrA:	1.000 Vrms

8/13/2021 12:23 PM

Sequence Report



dBrB: 1.000 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): 8.000 ohm

• DCX

DCX is not detected.

HDMI 5 : Verify Connections

Waveform: Sine, Dual
 Generator Level: -20.000 dBFS
 DC Offset: 0.000 D
 Frequency A: 1.00000 kHz
 Frequency B: 160.000 Hz
 IMD Split: Yes
 FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:16:23.088 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	-9.000 dBm	-6.045 dBm	-3.000 dBm	✓
RIGHT FRONT	-9.000 dBm	-6.059 dBm	-3.000 dBm	✓
CENTER SUB	-17.000 dBm	-14.585 dBm	-11.500 dBm	✓
CENTER	-9.000 dBm	-6.025 dBm	-3.000 dBm	✓
LEFT SURROUND	-9.000 dBm	-6.057 dBm	-3.000 dBm	✓
RIGHT SURROUND	-9.000 dBm	-6.019 dBm	-3.000 dBm	✓
LEFT BACK	-9.000 dBm	-6.037 dBm	-3.000 dBm	✓
RIGHT BACK	-9.000 dBm	-6.106 dBm	-3.000 dBm	✓

Result: ✓ PASSED

Sequence Report



HDMI 6 : Signal Path Setup

Output Connector:	HDMI Source
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Disabled
HDMI Receiver Status:	Read successful
Audio Format:	Linear 8Ch Layout1
Status Bits:	
Application:	Consumer
Audio Mode:	Audio
Emphasis:	None
Sampling Frequency:	48 kHz
Channel Number:	Don't Care
Copyright:	Copyright
Channel Status Mode:	Mode 0
Category Code:	General
Source Number:	Don't Care
Clock Accuracy:	Level I
Word Length:	24 Bits
Sample Word Length:	24 Bits
Orig Sample Freq:	Not Indicated
Speaker Allocation:	FL FR LFE FC RL RR RLC RRC
Video Format:	1920x1080p @ 50 Hz
Color Depth:	8 Bit
HDCP Encryption:	No
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	8
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	177.7 ms
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
dBrA:	1.000 Vrms

8/13/2021 12:23 PM

Sequence Report



dBrB: 1.000 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): 8.000 ohm

• DCX

DCX is not detected.

HDMI 6 : Verify Connections

Waveform: Sine, Dual
 Generator Level: -20.000 dBFS
 DC Offset: 0.000 D
 Frequency A: 1.00000 kHz
 Frequency B: 160.000 Hz
 IMD Split: Yes
 FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:16:37.343 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	-9.000 dBm	-6.045 dBm	-3.000 dBm	✓
RIGHT FRONT	-9.000 dBm	-6.059 dBm	-3.000 dBm	✓
CENTER SUB	-17.000 dBm	-14.585 dBm	-11.500 dBm	✓
CENTER	-9.000 dBm	-6.025 dBm	-3.000 dBm	✓
LEFT SURROUND	-9.000 dBm	-6.059 dBm	-3.000 dBm	✓
RIGHT SURROUND	-9.000 dBm	-6.019 dBm	-3.000 dBm	✓
LEFT BACK	-9.000 dBm	-6.037 dBm	-3.000 dBm	✓
RIGHT BACK	-9.000 dBm	-6.107 dBm	-3.000 dBm	✓

Result: ✓ PASSED

Sequence Report



HDMI 7 : Signal Path Setup

Output Connector:	HDMI Source
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Disabled
HDMI Receiver Status:	Read successful
Audio Format:	Linear 8Ch Layout1
Status Bits:	
Application:	Consumer
Audio Mode:	Audio
Emphasis:	None
Sampling Frequency:	48 kHz
Channel Number:	Don't Care
Copyright:	Copyright
Channel Status Mode:	Mode 0
Category Code:	General
Source Number:	Don't Care
Clock Accuracy:	Level I
Word Length:	24 Bits
Sample Word Length:	24 Bits
Orig Sample Freq:	Not Indicated
Speaker Allocation:	FL FR LFE FC RL RR RLC RRC
Video Format:	1920x1080p @ 50 Hz
Color Depth:	8 Bit
HDCP Encryption:	No
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	8
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	177.7 ms
Input EQ:	None
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
dBrA:	1.000 Vrms

8/13/2021 12:23 PM

Sequence Report



dBrB: 1.000 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): 8.000 ohm
 • DCX
 DCX is not detected.

HDMI 7 : Verify Connections

Waveform: Sine, Dual
 Generator Level: -20.000 dBFS
 DC Offset: 0.000 D
 Frequency A: 1.00000 kHz
 Frequency B: 160.000 Hz
 IMD Split: Yes
 FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:16:51.388 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	-9.000 dBm	-6.045 dBm	-3.000 dBm	✓
RIGHT FRONT	-9.000 dBm	-6.059 dBm	-3.000 dBm	✓
CENTER SUB	-17.000 dBm	-14.585 dBm	-11.500 dBm	✓
CENTER	-9.000 dBm	-6.025 dBm	-3.000 dBm	✓
LEFT SURROUND	-9.000 dBm	-6.058 dBm	-3.000 dBm	✓
RIGHT SURROUND	-9.000 dBm	-6.019 dBm	-3.000 dBm	✓
LEFT BACK	-9.000 dBm	-6.037 dBm	-3.000 dBm	✓
RIGHT BACK	-9.000 dBm	-6.107 dBm	-3.000 dBm	✓

Result: ✓ PASSED

Sequence Report



HDMI 8 : Signal Path Setup

Output Connector:	HDMI Source
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Disabled
HDMI Receiver Status:	Read successful
Audio Format:	Linear 8Ch Layout1
Status Bits:	
Application:	Consumer
Audio Mode:	Audio
Emphasis:	None
Sampling Frequency:	48 kHz
Channel Number:	Don't Care
Copyright:	Copyright
Channel Status Mode:	Mode 0
Category Code:	General
Source Number:	Don't Care
Clock Accuracy:	Level I
Word Length:	24 Bits
Sample Word Length:	24 Bits
Orig Sample Freq:	Not Indicated
Speaker Allocation:	FL FR LFE FC RL RR RLC RRC
Video Format:	1920x1080p @ 50 Hz
Color Depth:	8 Bit
HDCP Encryption:	No
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	8
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	177.7 ms
Input EQ:	None
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
dBrA:	1.000 Vrms

8/13/2021 12:23 PM

Sequence Report



dBrB: 1.000 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): 8.000 ohm

• DCX

DCX is not detected.

HDMI 8 : Verify Connections

Waveform: Sine, Dual
 Generator Level: -20.000 dBFS
 DC Offset: 0.000 D
 Frequency A: 1.00000 kHz
 Frequency B: 160.000 Hz
 IMD Split: Yes
 FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:17:06.014 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	-9.000 dBm	-6.045 dBm	-3.000 dBm	✓
RIGHT FRONT	-9.000 dBm	-6.059 dBm	-3.000 dBm	✓
CENTER SUB	-17.000 dBm	-14.585 dBm	-11.500 dBm	✓
CENTER	-9.000 dBm	-6.025 dBm	-3.000 dBm	✓
LEFT SURROUND	-9.000 dBm	-6.056 dBm	-3.000 dBm	✓
RIGHT SURROUND	-9.000 dBm	-6.019 dBm	-3.000 dBm	✓
LEFT BACK	-9.000 dBm	-6.037 dBm	-3.000 dBm	✓
RIGHT BACK	-9.000 dBm	-6.107 dBm	-3.000 dBm	✓

Result: ✓ PASSED

Sequence Report



Dolby 5.1 : Signal Path Setup

Output Connector:	HDMI Source
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Enabled
HDMI Receiver Status:	Read successful
Audio Format:	Linear 8Ch Layout1
Status Bits:	Auto (Consumer)
Speaker Allocation:	FL FR LFE FC RL RR RLC RRC
Video Format:	1280x720p @ 60 Hz
Color Depth:	8 Bit
HDCP Encryption:	No
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	6
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
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.

Sequence Report



Dolby 5.1 : Verify Connections

Waveform: Channel_ID_48.24.ac3

RMS Level (8/13/2021 12:17:16.404 PM)

Channel	Lower Limit	Value	Upper Limit	
Ch1	-9.000 dBm	-6.046 dBm	---- dBm	✓
Ch2	-9.000 dBm	-6.055 dBm	---- dBm	✓
Ch3	---- dBm	-11.441 dBm	---- dBm	✓
Ch4	-9.000 dBm	-6.020 dBm	---- dBm	✓
Ch5	-9.000 dBm	-6.078 dBm	---- dBm	✓
Ch6	-9.000 dBm	-6.034 dBm	---- dBm	✓

Result: ✓ PASSED

Sequence Report



Coax In/Balanced Out : Signal Path Setup

Output Connector:	Digital Unbalanced
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Enabled
Output Mode:	Consumer
Status Bits:	Auto (Consumer)
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• References

dBr G:	0.000 dBFS
Shared Frequency Reference:	1.00000 kHz
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.

Sequence Report



Coax In/Balanced Out : Coax 1

Waveform: Sine

Generator Level: -0.000 dBrG (@1.000 FS)

DC Offset: 0.000 D

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:18:18.027 PM)

Channel	Lower Limit	Value	Upper Limit	
Left Front	+9.000 dBrA	+11.744 dBrA	+15.000 dBrA	✓
Right Front	+9.000 dBrA	+11.728 dBrA	+15.000 dBrA	✓

Result: ✓ PASSED

Coax In/Balanced Out : Coax 2

Waveform: Sine

Generator Level: -0.000 dBrG (@1.000 FS)

DC Offset: 0.000 D

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:18:26.682 PM)

Channel	Lower Limit	Value	Upper Limit	
Left Front	+9.000 dBrA	+11.746 dBrA	+15.000 dBrA	✓
Right Front	+9.000 dBrA	+11.730 dBrA	+15.000 dBrA	✓

Result: ✓ PASSED

Coax In/Balanced Out : Coax 3

Waveform: Sine

Generator Level: -0.000 dBrG (@1.000 FS)

DC Offset: 0.000 D

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:18:35.591 PM)

Channel	Lower Limit	Value	Upper Limit	
Left Front	+9.000 dBrA	+11.746 dBrA	+15.000 dBrA	✓
Right Front	+9.000 dBrA	+11.730 dBrA	+15.000 dBrA	✓

Result: ✓ PASSED

Sequence Report



Coax In/Balanced Out : Coax 4

Waveform: Sine

Generator Level: -0.000 dBrG (@1.000 FS)

DC Offset: 0.000 D

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:18:44.487 PM)

Channel	Lower Limit	Value	Upper Limit	
Left Front	+9.000 dBrA	+11.746 dBrA	+15.000 dBrA	✓
Right Front	+9.000 dBrA	+11.730 dBrA	+15.000 dBrA	✓

Result: ✓ PASSED

Sequence Report



Coax in to Coax out : Signal Path Setup

Output Connector:	Digital Unbalanced
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Enabled
Output Mode:	Consumer
Status Bits:	Auto (Consumer)
Output EQ:	None
Input Connector:	Digital Unbalanced
Input Bit Depth:	24
75 ohm Termination:	Enabled
Input Bandwidth:	AC (<10 Hz) - Fs/2
Device Delay:	0.000 s
Scale Freq By:	Input SR
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
dBrA:	0.000 dBFS
dBrB:	0.000 dBFS
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	-40.000 dBFS
dB SPL2:	-40.000 dBFS
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL

• DCX

DCX is not detected.

Sequence Report



Coax in to Coax out : Verify Connections

Waveform: Sine

Generator Level: -20.000 dBFS

DC Offset: 0.000 D

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:18:49.073 PM)

Ch1 -26.041 dBFS

Ch2 -26.040 dBFS

Sequence Report



AES/EBU : Signal Path Setup

Output Connector:	Digital Balanced
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Enabled
Output Mode:	Professional
Status Bits:	Auto (Professional)
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
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.

Sequence Report



AES/EBU : Verify Connections

Waveform: Sine

Generator Level: -20.000 dBFS

DC Offset: 0.000 D

Frequency: 400.000 Hz

RMS Level (8/13/2021 12:18:56.302 PM)

Channel	Lower Limit	Value	Upper Limit	
Ch1	-8.000 dBm	-5.058 dBm	-2.000 dBm	✓
Ch2	-8.000 dBm	-5.072 dBm	-2.000 dBm	✓

Result: ✓ PASSED

Sequence Report



Optical In/Balanced Out : Signal Path Setup

Output Connector:	Digital Optical
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Enabled
Output Mode:	Consumer
Status Bits:	Auto (Consumer)
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	55.15 ms
Input EQ:	None

• References

dBr G:	0.000 dBFS
Shared Frequency Reference:	1.00000 kHz
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.

Sequence Report



Optical In/Balanced Out : Optical 1

Waveform: Sine

Generator Level: -0.000 dBrG (@1.000 FS)

DC Offset: 0.000 D

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:19:08.785 PM)

Channel	Lower Limit	Value	Upper Limit	
Left Front	+9.000 dBrA	+11.749 dBrA	+15.000 dBrA	✓
Right Front	+9.000 dBrA	+11.733 dBrA	+15.000 dBrA	✓

Result: ✓ PASSED

Optical In/Balanced Out : Optical 2

Waveform: Sine

Generator Level: -0.000 dBrG (@1.000 FS)

DC Offset: 0.000 D

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:19:24.304 PM)

Channel	Lower Limit	Value	Upper Limit	
Left Front	+9.000 dBrA	+11.748 dBrA	+15.000 dBrA	✓
Right Front	+9.000 dBrA	+11.732 dBrA	+15.000 dBrA	✓

Result: ✓ PASSED

Optical In/Balanced Out : Optical 3

Waveform: Sine

Generator Level: -0.000 dBrG (@1.000 FS)

DC Offset: 0.000 D

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:19:33.418 PM)

Channel	Lower Limit	Value	Upper Limit	
Left Front	+9.000 dBrA	+11.748 dBrA	+15.000 dBrA	✓
Right Front	+9.000 dBrA	+11.732 dBrA	+15.000 dBrA	✓

Result: ✓ PASSED

Sequence Report



Optical In/Balanced Out : Optical 4

Waveform: Sine

Generator Level: -0.000 dBrG (@1.000 FS)

DC Offset: 0.000 D

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:19:43.782 PM)

Channel	Lower Limit	Value	Upper Limit	
Left Front	+9.000 dBrA	+11.746 dBrA	+15.000 dBrA	✓
Right Front	+9.000 dBrA	+11.730 dBrA	+15.000 dBrA	✓

Result: ✓ PASSED

Sequence Report



Optical in to Optical out : Signal Path Setup

Output Connector:	Digital Optical
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Enabled
Output Mode:	Consumer
Status Bits:	Auto (Consumer)
Output EQ:	None
Input Connector:	Digital Optical
Input Bit Depth:	24
Input Bandwidth:	AC (<10 Hz) - Fs/2
Device Delay:	0.000 s
Scale Freq By:	Input SR
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
dBrA:	0.000 dBFS
dBrB:	0.000 dBFS
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	-40.000 dBFS
dB SPL2:	-40.000 dBFS
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL

• DCX

DCX is not detected.

Sequence Report



Optical in to Optical out : Verify Connections

Waveform: Sine

Generator Level: -20.000 dBFS

DC Offset: 0.000 D

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:19:46.559 PM)

Ch1 -26.041 dBFS

Ch2 -26.040 dBFS

Sequence Report



ARC : Signal Path Setup

Output Connector:	HDMI ARC Tx
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Enabled
Arc Output Physical Layer Mode:	Common Mode
Arc Output Transmitter Negotiation Mode:	Audio Forced On
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
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.

Sequence Report



ARC : Level and Gain

Waveform: Sine

Generator Level: -20.000 dBFS

DC Offset: 0.000 D

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:19:57.356 PM)

Channel	Lower Limit	Value	Upper Limit	
Ch1	-8.000 dBm	-5.043 dBm	-2.000 dBm	✓
Ch2	-8.000 dBm	-5.059 dBm	-2.000 dBm	✓

Result: ✓ PASSED

Sequence Report



USB : Signal Path Setup

Output Connector:	ASIO
Output Sample Rate:	48.0000 kHz
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
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.

Sequence Report



USB : Verify Connections

Waveform: Sine
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:20:07.839 PM)

Channel	Lower Limit	Value	Upper Limit	
Ch1	-9.000 dBm	-5.043 dBm	-3.000 dBm	✓
Ch2	-9.000 dBm	-5.059 dBm	-3.000 dBm	✓

Result: ✓ PASSED

Tuner : Signal Path Setup

Output Connector: None (External)
Input Connector: Analog Balanced
Channels: 2
Termination: 200 kohm
Input Bandwidth: AC (<10 Hz) - 90k (192 kHz SR)
Device Delay: 0.000 s
Input EQ: None

• References

Shared Frequency Reference: 1.00000 kHz
dBrA: 1.000 Vrms
dBrB: 1.000 Vrms
dBrA Offset: 0.000 dB
dBrB Offset: 0.000 dB
dBSPL1: 10.00 mVrms
dBSPL2: 10.00 mVrms
dBSPL1 Calibrator Level: 94.000 dB SPL
dBSPL2 Calibrator Level: 94.000 dB SPL
dBm (Input Power): 600.0 ohm
W(watts) (Input Power): 8.000 ohm

• DCX

DCX is not detected.

Sequence Report



Tuner : Level and Gain

RMS Level (8/13/2021 12:20:17.733 PM)

Channel	Lower Limit	Value	Upper Limit	
Ch1	-26.373 dBm	-13.947 dBm	---- dBm	✓
Ch2	-26.373 dBm	-13.963 dBm	---- dBm	✓

Result: ✓ PASSED

Analog in /Balanced Out : Analog 1

Waveform: Sine

Generator Level: 200.0 mVrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:20:43.705 PM)

Channel	Lower Limit	Value	Upper Limit	
Left Front	-9.000 dBm	-5.851 dBm	-3.000 dBm	✓
Right Front	-9.000 dBm	-5.879 dBm	-3.000 dBm	✓

Result: ✓ PASSED

Analog in /Balanced Out : Analog 2

Waveform: Sine

Generator Level: 200.0 mVrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:20:49.551 PM)

Channel	Lower Limit	Value	Upper Limit	
Left Front	-9.000 dBm	-5.857 dBm	-3.000 dBm	✓
Right Front	-9.000 dBm	-5.878 dBm	-3.000 dBm	✓

Result: ✓ PASSED

Sequence Report



Analog in /Balanced Out : Analog 3

Waveform: Sine

Generator Level: 200.0 mVrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:20:56.103 PM)

Channel	Lower Limit	Value	Upper Limit	
Left Front	-9.000 dBm	-5.849 dBm	-3.000 dBm	✓
Right Front	-9.000 dBm	-5.882 dBm	-3.000 dBm	✓

Result: ✓ PASSED

Sequence Report



Balanced input : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	8
Configuration:	Normal (Differential)
Source Impedance:	100 ohm
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 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:	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.

Sequence Report



Balanced input : Verify Connections

Waveform: Sine

Generator Level: 200.0 mVrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:21:08.602 PM)

Channel	Lower Limit	Value	Upper Limit	
Ch1	-14.000 dBm	-10.836 dBm	-8.000 dBm	✓
Ch2	-14.000 dBm	-10.854 dBm	-8.000 dBm	✓

Result: ✓ PASSED

THD+N Ratio (8/13/2021 12:21:08.602 PM)

Channel	Lower Limit	Value	Upper Limit	
Ch1	---- %	0.016529 %	0.030000 %	✓
Ch2	---- %	0.010537 %	0.030000 %	✓

Result: ✓ PASSED

Sequence Report



Front Input : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	8
Source Impedance:	50 ohm
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 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:	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.

Sequence Report



Front Input : Verify Connections

Waveform: Sine

Generator Level: 500.0 mVrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:21:25.722 PM)

Channel	Lower Limit	Value	Upper Limit	
Ch1	0.000 dBm	+2.538 dBm	+6.000 dBm	✓
Ch2	0.000 dBm	+2.518 dBm	+6.000 dBm	✓

Result: ✓ PASSED

Sequence Report



Zone2 output : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Source Impedance:	50 ohm
Output EQ:	None
Input Connector:	Analog Unbalanced
Channels:	2
Termination:	100 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 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:	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.

Sequence Report



Zone2 output : Verify Connections

Waveform: Sine

Generator Level: 200.0 mVrms

DC Offset: 0.000 V

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:21:32.915 PM)

Channel	Lower Limit	Value	Upper Limit	
Ch1	-10.000 dBm	-7.421 dBm	-5.000 dBm	✓
Ch2	-10.000 dBm	-7.452 dBm	-5.000 dBm	✓

Result: ✓ PASSED

Sequence Report



Headphone output : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Source Impedance:	50 ohm
Output EQ:	None
Input Connector:	Analog Unbalanced
Channels:	8
Termination:	100 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 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:	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.

Sequence Report



Headphone output : Verify Connections

Waveform: Sine
 Generator Level: 100.0 mVrms
 DC Offset: 0.000 V
 Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:21:46.763 PM)

Channel	Lower Limit	Value	Upper Limit	
Ch1	---- dBm	-13.442 dBm	---- dBm	✓
Ch2	---- dBm	-13.474 dBm	---- dBm	✓
Ch3	---- dBm	-85.173 dBm	---- dBm	✓
Ch4	---- dBm	-85.302 dBm	---- dBm	✓
Ch5	---- dBm	-84.646 dBm	---- dBm	✓
Ch6	---- dBm	-84.045 dBm	---- dBm	✓
Ch7	-26.000 dBm	-23.937 dBm	-22.000 dBm	✓
Ch8	-26.000 dBm	-23.940 dBm	-22.000 dBm	✓

Result: ✓ PASSED

Headphone output : Interchannel Phase

Waveform: Sine
 Generator Level: 100.0 mVrms
 DC Offset: 0.000 V
 Frequency: 1.00000 kHz
 Reference Channel: Ch7
 Meter Range: -90 -> 270 deg

Phase (8/13/2021 12:21:50.850 PM)

Channel	Lower Limit	Value	Upper Limit	
Ch1	---- deg	+2.963 deg	---- deg	✓
Ch2	---- deg	+2.974 deg	---- deg	✓
Ch3	---- deg	---- deg	---- deg	✓
Ch4	---- deg	---- deg	---- deg	✓
Ch5	---- deg	---- deg	---- deg	✓
Ch6	---- deg	---- deg	---- deg	✓
Ch7	---- deg	---- deg	---- deg	✓
Ch8	---- deg	+0.014 deg	+90.000 deg	✓

Result: ✓ PASSED

Sequence Report



Atmos Surround : Signal Path Setup

Output Connector:	HDMI Source
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Enabled
HDMI Receiver Status:	Read successful
Audio Format:	Linear 8Ch Layout1
Status Bits:	Auto (Consumer)
Speaker Allocation:	FL FR LFE FC RL RR RLC RRC
Video Format:	1920x1080p @ 60 Hz
Color Depth:	8 Bit
HDCP Encryption:	No
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	8
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
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.

Sequence Report



Atmos Surround : Verify Connections

Waveform: Sine
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:22:22.341 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT WIDTH	-6.500 dBm	-3.725 dBm	-0.500 dBm	✓
RIGHT WIDTH	-6.500 dBm	-3.703 dBm	-0.500 dBm	✓
LEFT MIDDLE HEIGHT	-6.500 dBm	-3.642 dBm	-0.500 dBm	✓
RIGHT MIDDLE HEIGHT	-6.500 dBm	-3.584 dBm	-0.500 dBm	✓
LEFT FRONT HEIGHT	-6.500 dBm	-3.731 dBm	-0.500 dBm	✓
RIGHT FRONT HEIGHT	-6.500 dBm	-3.726 dBm	-0.500 dBm	✓
LEFT REAR HEIGHT	-6.500 dBm	-3.705 dBm	-0.500 dBm	✓
RIGHT REAR HEIGHT	-6.500 dBm	-3.698 dBm	-0.500 dBm	✓

Result: ✓ PASSED

Sequence Report



Atmos Surround : Signal to Noise Ratio

Waveform: Sine
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Low-pass Filter: 20 kHz
Weighting Filter: Signal Path
High-pass Filter: 20 Hz

Signal to Noise Ratio (8/13/2021 12:22:25.773 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT WIDTH	90.000 dB	95.054 dB	---- dB	✓
RIGHT WIDTH	90.000 dB	95.251 dB	---- dB	✓
LEFT MIDDLE HEIGHT	90.000 dB	92.560 dB	---- dB	✓
RIGHT MIDDLE HEIGHT	90.000 dB	92.663 dB	---- dB	✓
LEFT FRONT HEIGHT	90.000 dB	94.164 dB	---- dB	✓
RIGHT FRONT HEIGHT	90.000 dB	95.163 dB	---- dB	✓
LEFT REAR HEIGHT	90.000 dB	94.995 dB	---- dB	✓
RIGHT REAR HEIGHT	90.000 dB	95.265 dB	---- dB	✓

Result: ✓ PASSED

Sequence Report



Level test Height Outputs : Signal Path Setup

Output Connector:	HDMI Source
Output Sample Rate:	48.0000 kHz
Output Bit Depth:	24
Dither:	Enabled
HDMI Receiver Status:	Read successful
Audio Format:	Linear 8Ch Layout1
Status Bits:	Auto (Consumer)
Speaker Allocation:	FL FR LFE FC RL RR RLC RRC
Video Format:	1920x1080p @ 60 Hz
Color Depth:	10 Bit
HDCP Encryption:	Yes
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	8
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• References

dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
dBrA:	+0.388 dBV
dBrB:	-20.000 dBV
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.

Sequence Report



Level test Height Outputs : Balanced Outputs 1

Waveform: Sine, Dual
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
Frequency A: 1.00000 kHz
Frequency B: 30.0000 Hz
IMD Split: Yes
FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:22:33.558 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT WIDTH	-9.000 dBV	-5.944 dBV	-3.000 dBV	✓
RIGHT WIDTH	-9.000 dBV	-5.922 dBV	-3.000 dBV	✓
LEFT MIDDLE HEIGHT	-9.000 dBV	-5.861 dBV	-3.000 dBV	✓
RIGHT MIDDLE HEIGHT	-9.000 dBV	-5.802 dBV	-3.000 dBV	✓
LEFT FRONT HEIGHT	-9.000 dBV	-5.947 dBV	-3.000 dBV	✓
RIGHT FRONT HEIGHT	-9.000 dBV	-5.945 dBV	-3.000 dBV	✓
LEFT REAR HEIGHT	-9.000 dBV	-5.924 dBV	-3.000 dBV	✓
RIGHT REAR HEIGHT	-9.000 dBV	-5.917 dBV	-3.000 dBV	✓

Result: ✓ PASSED

Sequence Report



Level test Height Outputs : Volume Control -70

Waveform: Sine, Dual
 Generator Level Ch1: -12.000 dBFS
 DC Offset Ch1: 0.000 D
 Generator Level Ch2: -12.000 dBFS
 DC Offset Ch2: 0.000 D
 Generator Level Ch3: -22.000 dBFS
 DC Offset Ch3: 0.000 D
 Generator Level Ch4: -12.000 dBFS
 DC Offset Ch4: 0.000 D
 Generator Level Ch5: -12.000 dBFS
 DC Offset Ch5: 0.000 D
 Generator Level Ch6: -12.000 dBFS
 DC Offset Ch6: 0.000 D
 Generator Level Ch7: -12.000 dBFS
 DC Offset Ch7: 0.000 D
 Generator Level Ch8: -12.000 dBFS
 DC Offset Ch8: 0.000 D
 Frequency A: 1.00000 kHz
 Frequency B: 30.0000 Hz
 IMD Split: Yes
 FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:22:45.294 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT WIDTH	-70.000 dBV	-67.064 dBV	-64.000 dBV	✓
RIGHT WIDTH	-70.000 dBV	-67.092 dBV	-64.000 dBV	✓
LEFT MIDDLE HEIGHT	-70.000 dBV	-67.053 dBV	-64.000 dBV	✓
RIGHT MIDDLE HEIGHT	-70.000 dBV	-66.842 dBV	-64.000 dBV	✓
LEFT FRONT HEIGHT	-70.000 dBV	-67.173 dBV	-64.000 dBV	✓
RIGHT FRONT HEIGHT	-70.000 dBV	-67.019 dBV	-64.000 dBV	✓
LEFT REAR HEIGHT	-70.000 dBV	-67.000 dBV	-64.000 dBV	✓
RIGHT REAR HEIGHT	-70.000 dBV	-67.157 dBV	-64.000 dBV	✓

Result: ✓ PASSED

Sequence Report



Level test Height Outputs : Volume Control -30

Waveform: Sine, Dual
 Generator Level Ch1: -12.000 dBFS
 DC Offset Ch1: 0.000 D
 Generator Level Ch2: -12.000 dBFS
 DC Offset Ch2: 0.000 D
 Generator Level Ch3: -15.000 dBFS
 DC Offset Ch3: 0.000 D
 Generator Level Ch4: -12.000 dBFS
 DC Offset Ch4: 0.000 D
 Generator Level Ch5: -12.000 dBFS
 DC Offset Ch5: 0.000 D
 Generator Level Ch6: -12.000 dBFS
 DC Offset Ch6: 0.000 D
 Generator Level Ch7: -12.000 dBFS
 DC Offset Ch7: 0.000 D
 Generator Level Ch8: -12.000 dBFS
 DC Offset Ch8: 0.000 D
 Frequency A: 1.00000 kHz
 Frequency B: 100.000 Hz
 IMD Split: Yes
 FB:FA Ratio: 1.000 x/y
 Low-pass Filter: 10 kHz

RMS Level (8/13/2021 12:22:53.682 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT WIDTH	-30.000 dBV	-27.513 dBV	-24.000 dBV	✓
RIGHT WIDTH	-30.000 dBV	-27.451 dBV	-24.000 dBV	✓
LEFT MIDDLE HEIGHT	-30.000 dBV	-27.425 dBV	-24.000 dBV	✓
RIGHT MIDDLE HEIGHT	-30.000 dBV	-27.446 dBV	-24.000 dBV	✓
LEFT FRONT HEIGHT	-30.000 dBV	-27.551 dBV	-24.000 dBV	✓
RIGHT FRONT HEIGHT	-30.000 dBV	-27.463 dBV	-24.000 dBV	✓
LEFT REAR HEIGHT	-30.000 dBV	-27.464 dBV	-24.000 dBV	✓
RIGHT REAR HEIGHT	-30.000 dBV	-27.499 dBV	-24.000 dBV	✓

Result: ✓ PASSED

Sequence Report



Level test Height Outputs : Volume Control +10

Waveform: Sine, Dual

Generator Level Ch1: -12.000 dBFS

DC Offset Ch1: 0.000 D

Generator Level Ch2: -12.000 dBFS

DC Offset Ch2: 0.000 D

Generator Level Ch3: -22.000 dBFS

DC Offset Ch3: 0.000 D

Generator Level Ch4: -12.000 dBFS

DC Offset Ch4: 0.000 D

Generator Level Ch5: -12.000 dBFS

DC Offset Ch5: 0.000 D

Generator Level Ch6: -12.000 dBFS

DC Offset Ch6: 0.000 D

Generator Level Ch7: -12.000 dBFS

DC Offset Ch7: 0.000 D

Generator Level Ch8: -10.000 dBFS

DC Offset Ch8: 0.000 D

Frequency A: 1.00000 kHz

Frequency B: 30.0000 Hz

IMD Split: Yes

FB:FA Ratio: 1.000 x/y

RMS Level (8/13/2021 12:23:02.101 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT WIDTH	+9.000 dBV	+11.974 dBV	+15.000 dBV	✓
RIGHT WIDTH	+9.000 dBV	+12.574 dBV	+15.000 dBV	✓
LEFT MIDDLE HEIGHT	+9.000 dBV	+12.118 dBV	+15.000 dBV	✓
RIGHT MIDDLE HEIGHT	+9.000 dBV	+12.756 dBV	+15.000 dBV	✓
LEFT FRONT HEIGHT	+9.000 dBV	+11.966 dBV	+15.000 dBV	✓
RIGHT FRONT HEIGHT	+9.000 dBV	+12.540 dBV	+15.000 dBV	✓
LEFT REAR HEIGHT	+9.000 dBV	+11.989 dBV	+15.000 dBV	✓
RIGHT REAR HEIGHT	+9.000 dBV	+12.583 dBV	+15.000 dBV	✓

Result: ✓ PASSED

Sequence Report



Level test Height Outputs : Mute Test

Waveform: Sine

Generator Level Ch1: -12.000 dBFS

DC Offset Ch1: 0.000 D

Generator Level Ch2: -12.000 dBFS

DC Offset Ch2: 0.000 D

Generator Level Ch3: -22.000 dBFS

DC Offset Ch3: 0.000 D

Generator Level Ch4: -12.000 dBFS

DC Offset Ch4: 0.000 D

Generator Level Ch5: -12.000 dBFS

DC Offset Ch5: 0.000 D

Generator Level Ch6: -12.000 dBFS

DC Offset Ch6: 0.000 D

Generator Level Ch7: -12.000 dBFS

DC Offset Ch7: 0.000 D

Generator Level Ch8: -12.000 dBFS

DC Offset Ch8: 0.000 D

Frequency: 1.00000 kHz

RMS Level (8/13/2021 12:23:06.561 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT WIDTH	---- dBV	-91.102 dBV	-77.000 dBV	✓
RIGHT WIDTH	---- dBV	-92.002 dBV	-77.000 dBV	✓
LEFT MIDDLE HEIGHT	---- dBV	-82.870 dBV	-72.000 dBV	✓
RIGHT MIDDLE HEIGHT	---- dBV	-80.856 dBV	-72.000 dBV	✓
LEFT FRONT HEIGHT	---- dBV	-91.442 dBV	-77.000 dBV	✓
RIGHT FRONT HEIGHT	---- dBV	-91.032 dBV	-77.000 dBV	✓
LEFT REAR HEIGHT	---- dBV	-89.970 dBV	-77.000 dBV	✓
RIGHT REAR HEIGHT	---- dBV	-89.687 dBV	-77.000 dBV	✓

Result: ✓ PASSED

Sequence Report



Level test Height Outputs : THD+N

Waveform: Sine, Dual
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Frequency B: 40.0000 Hz
IMD Split: Yes
FB:FA Ratio: 1.000 x/y
Weighting Filter: A-wt.
Notch Tuning Mode: Measured Frequency

THD Ratio (8/13/2021 12:23:21.227 PM)

Channel	Lower Limit	Value	Upper Limit	
LSub	---- %	0.002251 %	0.005000 %	✓
CSub	---- %	0.002290 %	0.005000 %	✓
RSub	---- %	0.002287 %	0.005000 %	✓
LRHeight	---- %	0.002250 %	0.005000 %	✓
LFHeight	---- %	0.002262 %	0.005000 %	✓
LRear	---- %	0.002322 %	0.005000 %	✓
LSurr	---- %	0.002271 %	0.005000 %	✓
LWidth	---- %	0.002300 %	0.005000 %	✓

Result: ✓ PASSED

Sequence Report



Level test Height Outputs : IMD (SMPTE)

IMD Type: SMPTE
Waveform: IMD
Generator Level: -20.000 dBFS
DC Offset: 0.000 D
Frequency 1: 60.0000 Hz
Frequency 2: 7.00000 kHz
Frequency Ratio: 4:1
IMD Split: False

SMPTE Ratio (8/13/2021 12:23:23.364 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT FRONT	---- %	0.003907 %	0.010000 %	✓
RIGHT FRONT	---- %	0.003990 %	0.010000 %	✓
CENTER SUB	---- %	0.004451 %	---- %	✓
CENTER	---- %	0.004176 %	0.010000 %	✓
LEFT SURROUND	---- %	0.004497 %	0.010000 %	✓
RIGHT SURROUND	---- %	0.003974 %	0.010000 %	✓
LEFT BACK	---- %	0.003949 %	0.010000 %	✓
RIGHT BACK	---- %	0.003858 %	0.010000 %	✓

Result: ✓ PASSED

Sequence Report

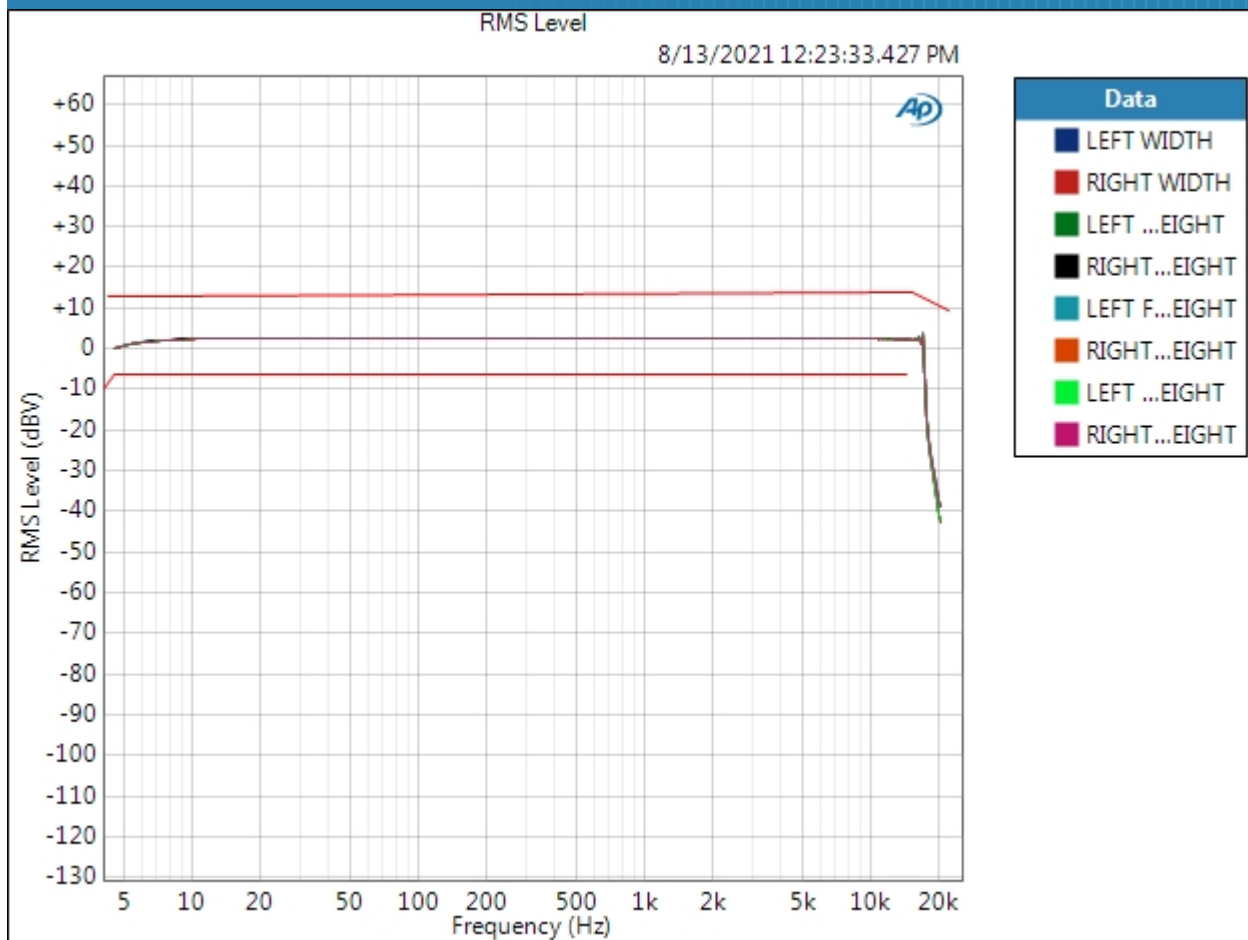


Level test Height Outputs : Continuous Sweep

Start Frequency:	5.00000 Hz
Stop Frequency:	20.0000 kHz
Generator Level Ch1:	-12.000 dBFS
DC Offset Ch1:	0.000 D
Generator Level Ch2:	-12.000 dBFS
DC Offset Ch2:	0.000 D
Generator Level Ch3:	-22.000 dBFS
DC Offset Ch3:	0.000 D
Generator Level Ch4:	-12.000 dBFS
DC Offset Ch4:	0.000 D
Generator Level Ch5:	-12.000 dBFS
DC Offset Ch5:	0.000 D
Generator Level Ch6:	-12.000 dBFS
DC Offset Ch6:	-10.00 uD
Generator Level Ch7:	-12.000 dBFS
DC Offset Ch7:	0.000 D
Generator Level Ch8:	-12.000 dBFS
DC Offset Ch8:	0.000 D
EQ:	None
Pre-Sweep:	1.000 s
Sweep:	2.000 s
Measured 1	8/13/2021 12:23:33 PM
Extend Acquisition By:	0.000 s
Crosstalk Type:	None
Secondary Source:	None

RMS Level (8/13/2021 12:23:33.427 PM)

Sequence Report

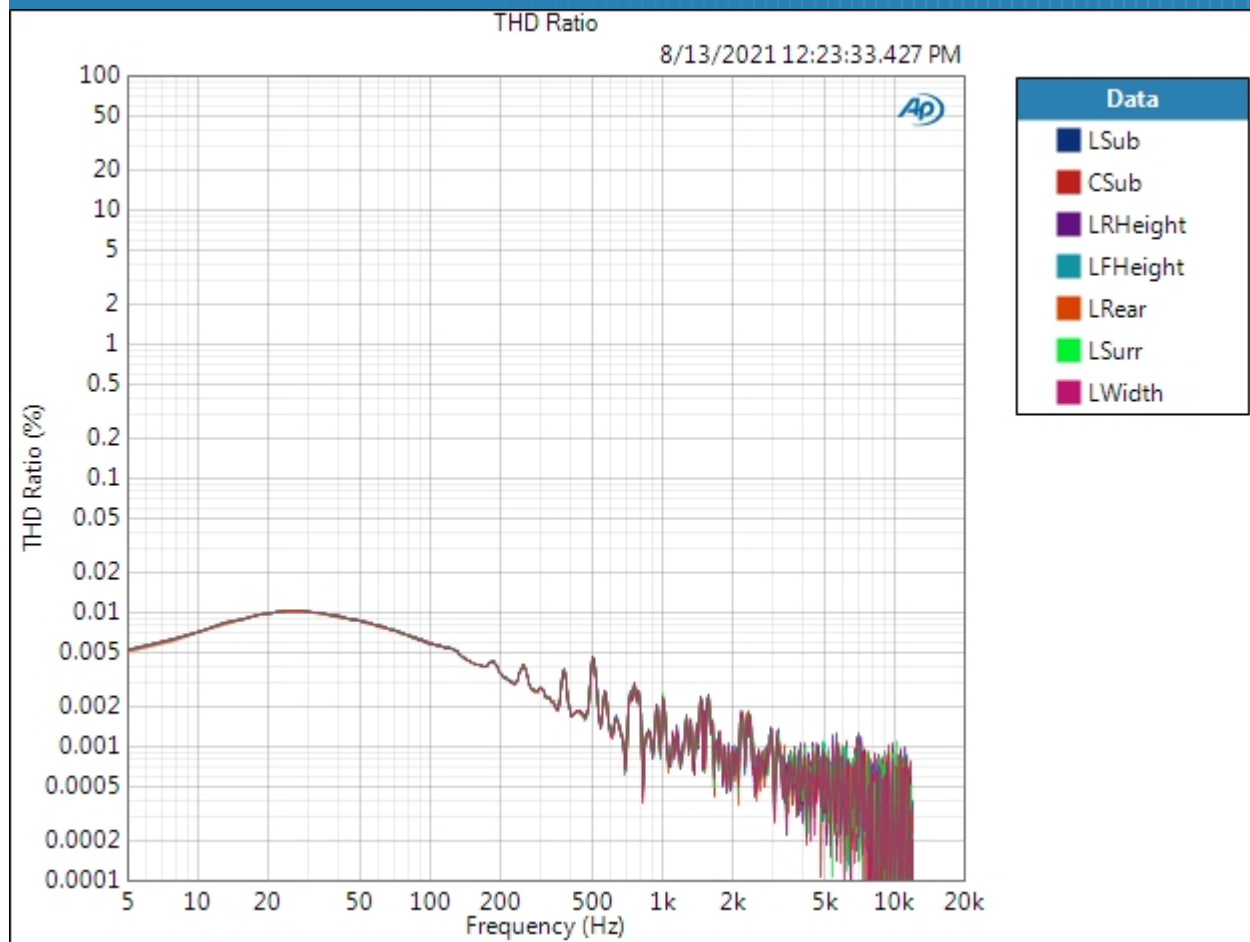


LEFT WIDTH	✓ PASSED
RIGHT WIDTH	✓ PASSED
LEFT MIDDLE HEIGHT	✓ PASSED
RIGHT MIDDLE HEIGHT	✓ PASSED
LEFT FRONT HEIGHT	✓ PASSED
RIGHT FRONT HEIGHT	✓ PASSED
LEFT REAR HEIGHT	✓ PASSED
RIGHT REAR HEIGHT	✓ PASSED

Result: ✓ PASSED

THD Ratio (8/13/2021 12:23:33.427 PM)

Sequence Report



Result: PASSED

Sequence Report



Level test Height Outputs : Signal to Noise Ratio

Waveform: Sine, Dual
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Frequency B: 30.0000 Hz
IMD Split: Yes
FB:FA Ratio: 1.000 x/y
Weighting Filter: A-wt.

Signal to Noise Ratio (8/13/2021 12:23:37.739 PM)

Channel	Lower Limit	Value	Upper Limit	
LEFT WIDTH	100.000 dB	112.486 dB	---- dB	✓
RIGHT WIDTH	100.000 dB	112.531 dB	---- dB	✓
LEFT MIDDLE HEIGHT	100.000 dB	109.885 dB	---- dB	✓
RIGHT MIDDLE HEIGHT	100.000 dB	109.870 dB	---- dB	✓
LEFT FRONT HEIGHT	100.000 dB	111.578 dB	---- dB	✓
RIGHT FRONT HEIGHT	100.000 dB	112.632 dB	---- dB	✓
LEFT REAR HEIGHT	100.000 dB	112.233 dB	---- dB	✓
RIGHT REAR HEIGHT	100.000 dB	112.582 dB	---- dB	✓

Result: ✓ PASSED