

System Two Calibration Report

Calibration laboratory or equivalent facility:

(name) _____

(address) _____

Customer: _____ PO No. _____

Unit under test: (Model No.) _____ (Serial No.) _____

Report Identifier _____ consisting of 15 pages Calibration Date: _____

The instrument as received was
 was not functioning within specifications.

Procedure used: System Two Service Manual Procedure, pages 2-2 to 2-20.

Ambient temperature during calibration: _____ °C.

Calibration equipment used:

Model	Description	Last Calibration Date	Calibration Due

This report shall not be reproduced except in full, without the written approval of the laboratory named above.

Calibration certified by (signature) _____

(print name) _____

(title) _____

SYSTEM TWO CALIBRATION REPORT

ANALOG SINEWAVE GENERATOR (SYS-2022, SYS-2222, & SYS-2322)

Frequency Accuracy (Step 1)

Fast Mode

10.0 Hz	9.9500	_____	10.0500 Hz
100 Hz	99.500	_____	100.500 Hz
1.00 kHz	0.9950	_____	1.0050 kHz
10.0 kHz	9.9500	_____	10.050 kHz
100 kHz	99.500	_____	100.50 kHz
200 kHz	199.000	_____	201.000 kHz

High-Accuracy Mode

10 Hz	9.9970	_____	10.0030 Hz
100 Hz	99.970	_____	100.030 Hz
1.00 kHz	0.99970	_____	1.00030 kHz
10.0 kHz	9.9970	_____	10.0030 kHz
100 kHz	99.970	_____	100.030 kHz
200 kHz	199.940	_____	200.060 kHz

Amplitude Accuracy (Step 2)

Channel A

10.00V	9.9300	_____	10.070 Vrms
5.000V	4.9650	_____	5.0350 Vrms
2.500V	2.4830	_____	2.5170 Vrms
1.200V	1.1920	_____	1.2080 Vrms
600 mV	595.80	_____	604.20 Vrms
300 mV	297.90	_____	302.10 Vrms
150 mV	149.00	_____	151.00 Vrms
80 mV	79.440	_____	80.560 Vrms
40 mV	39.720	_____	40.280 Vrms
20 mV	19.860	_____	20.140 Vrms
10 mV	9.9300	_____	10.070 Vrms

Channel B

10.00V	9.9300	_____	10.070 Vrms
5.000V	4.9650	_____	5.0350 Vrms
2.500V	2.4830	_____	2.5170 Vrms
1.200V	1.1920	_____	1.2080 Vrms
600 mV	595.80	_____	604.20 Vrms
300 mV	297.90	_____	302.10 Vrms
150 mV	149.00	_____	151.00 Vrms
80 mV	79.440	_____	80.560 Vrms
40 mV	39.720	_____	40.280 Vrms
20 mV	19.860	_____	20.140 Vrms
10 mV	9.9300	_____	10.070 Vrms

Flatness (Step 3)

Channel A

10 Hz	-0.010	_____	+0.010 dB
20 Hz	-0.008	_____	+0.008 dB
50 Hz	-0.008	_____	+0.008 dB
10 kHz	-0.008	_____	+0.008 dB
20 kHz	-0.008	_____	+0.008 dB
50 kHz	-0.030	_____	+0.030 dB
120 kHz	-0.100	_____	+0.100 dB
200 kHz	-0.300	_____	+0.200 dB

Channel B

10 Hz	-0.010	_____	+0.010 dB
20 Hz	-0.008	_____	+0.008 dB
50 Hz	-0.008	_____	+0.008 dB
10 kHz	-0.008	_____	+0.008 dB
20 kHz	-0.008	_____	+0.008 dB
50 kHz	-0.030	_____	+0.030 dB
120 kHz	-0.100	_____	+0.100 dB
200 kHz	-0.300	_____	+0.200 dB

Residual THD+N (Step 4)

Channel A

Vout = 26.66V bal, 22 kHz analyzer BW

20 Hz	_____	0.00200%
25 Hz	_____	0.00040%
1 kHz	_____	0.00040%
5 kHz	_____	0.00040%

Vout = 26.66V bal, 80 kHz analyzer BW

1 kHz	_____	0.00060%
20 kHz	_____	0.00060%

Vout = 13.33V bal, 500 kHz analyzer BW

10 Hz	_____	0.00400%
20 Hz	_____	0.00150%
1 kHz	_____	0.00150%
20 kHz	_____	0.00150%
50 kHz	_____	0.00400%
100 kHz	_____	0.00400%

Channel B

Vout = 26.66V bal, 22 kHz analyzer BW

20 Hz	_____	0.00200%
25 Hz	_____	0.00040%
1 kHz	_____	0.00040%
5 kHz	_____	0.00040%

Vout = 26.66V bal, 80 kHz analyzer BW

1 kHz	_____	0.00060%
20 kHz	_____	0.00060%

Vout = 13.33V bal, 500 kHz analyzer BW

10 Hz	_____	0.00400%
20 Hz	_____	0.00150%
1 kHz	_____	0.00150%
20 kHz	_____	0.00150%
50 kHz	_____	0.00400%
100 kHz	_____	0.00400%

D-A SIGNAL GENERATOR (SYS-2222 & SYS-2322 only)

DAC Frequency Accuracy (Step 5) 9999.980 _____ 10000.020 Hz

DAC Amplitude Accuracy (Step 6)

Channel A 0.9931 _____ 1.0069 Vrms
Channel B 0.9931 _____ 1.0069 Vrms

DAC Sinewave Flatness (Step 7)Channel A

10 Hz -0.030 _____ +0.030 dB
20 Hz -0.030 _____ +0.030 dB
50 Hz -0.030 _____ +0.030 dB
10 kHz -0.030 _____ +0.030 dB
18 kHz -0.030 _____ +0.030 dB
20 kHz -0.150 _____ +0.030 dB

Channel B

10 Hz -0.030 _____ +0.030 dB
20 Hz -0.030 _____ +0.030 dB
50 Hz -0.030 _____ +0.030 dB
10 kHz -0.030 _____ +0.030 dB
18 kHz -0.030 _____ +0.030 dB
20 kHz -0.150 _____ +0.030 dB

DAC Sinewave Residual THD+N (Step 8)Channel A

20 Hz _____ 0.00150%
1 kHz _____ 0.00150%
5 kHz _____ 0.00150%
10 kHz _____ 0.00150%
20 kHz _____ 0.00150%

Channel B

20 Hz _____ 0.00150%
1 kHz _____ 0.00150%
5 kHz _____ 0.00150%
10 kHz _____ 0.00150%
20 kHz _____ 0.00150%

ANALOG OUTPUT RELATED (SYS-2022, SYS-2222, & SYS-2322)

Output Crosstalk (Step 9)

Ch B into Ch A

20 kHz	_____	-120.0 dB
100 kHz	_____	-106.0 dB

Ch A into Ch B

20 kHz	_____	-120.0 dB
100 kHz	_____	-106.0 dB

Source Impedance Accuracy (Step 10)

Channel A

40 Ohm bal	39.00	_____	41.00 Ohms
150 Ohm bal	148.5	_____	151.5 Ohms
200 Ohm bal (Opt EGZ)	198.0	_____	202.0 Ohms
600 Ohm bal	597.0	_____	603.0 Ohms
20 Ohm unbal	19.00	_____	21.00 Ohms
600 Ohm unbal	597.0	_____	603.0 Ohms

Channel B

40 Ohm bal	39.00	_____	41.00 Ohms
150 Ohm bal	148.5	_____	151.5 Ohms
200 Ohm bal (Opt EGZ)	198.0	_____	202.0 Ohms
600 Ohm bal	597.0	_____	603.0 Ohms
20 Ohm unbal	19.00	_____	21.00 Ohms
600 Ohm unbal	597.0	_____	603.0 Ohms

ANALOG INPUT RELATED (SYS-2022, SYS-2222, & SYS-2322)

Termination Accuracy (Step 11)

Channel A

600 Ohm	594.0	_____	606.0 Ohms
300 Ohm	297.0	_____	303.0 Ohms

Channel B

600 Ohm	594.0	_____	606.0 Ohms
300 Ohm	297.0	_____	303.0 Ohms

Common Mode Rejection (Step 12)

Channel A

2.5 V range, 10 Hz	_____	-80.0 dBgA
2.5 V range, 1 kHz	_____	-80.0 dBgA
2.5 V range, 20 kHz	_____	-80.0 dBgA
10 V range, 1 kHz	_____	-65.0 dBgA
10 V range, 20 kHz	_____	-65.0 dBgA
40 V range, 1 kHz	_____	-50.0 dBgA
160 V range, 1 kHz	_____	-50.0 dBgA

Channel B

2.5 V range, 10 Hz	_____	-80.0 dBgB
2.5 V range, 1 kHz	_____	-80.0 dBgB
2.5 V range, 20 kHz	_____	-80.0 dBgB
10 V range, 1 kHz	_____	-65.0 dBgB
10 V range, 20 kHz	_____	-65.0 dBgB
40 V range, 1 kHz	_____	-50.0 dBgB
160 V range, 1 kHz	_____	-50.0 dBgB

Residual Input Crosstalk (Step 13)Ch B into Ch A

20 kHz	_____	-140.0 dB
100 kHz	_____	-126.0 dB

Ch A into Ch B

20 kHz	_____	-140.0 dB
100 kHz	_____	-126.0 dB

ANALOG ANALYZER RELATED (SYS-2022, SYS2222, & SYS-2322)**Level Meter Accuracy (Step 14)**Channel A

160V range, 120.00 Vrms	119.4	_____	120.6 V
80V range, 60.00 Vrms	59.70	_____	60.30 V
40V range, 30.00 Vrms	29.85	_____	30.15 V
20V range, 16.00 Vrms	15.92	_____	16.08 V
10V range, 8.000 Vrms	7.960	_____	8.040 V
5V range, 4.000 Vrms	3.980	_____	4.020 V
2.5V range, 2.000 Vrms	1.990	_____	2.010 V
1.2V range, 1.000 Vrms	0.995	_____	1.005 V
600 mV range, 500 mVrms	497.5	_____	502.5 mV
300 mV range, 240 mVrms	238.8	_____	241.2 mV
160 mV range, 120 mVrms	119.4	_____	120.6 mV
80 mV range, 60 mVrms	59.70	_____	60.30 mV
40 mV range, 30 mVrms	29.85	_____	30.15 mV
40 mV range, 5.0 mVrms	4.975	_____	5.025 mV

Channel B

160V range, 120.00 Vrms	119.4	_____	120.6 V
80V range, 60.00 Vrms	59.70	_____	60.30 V
40V range, 30.00 Vrms	29.85	_____	30.15 V
20V range, 16.00 Vrms	15.92	_____	16.08 V
10V range, 8.000 Vrms	7.960	_____	8.040 V
5V range, 4.000 Vrms	3.980	_____	4.020 V
2.5V range, 2.000 Vrms	1.990	_____	2.010 V
1.2V range, 1.000 Vrms	0.995	_____	1.005 V
600 mV range, 500 mVrms	497.5	_____	502.5 mV
300 mV range, 240 mVrms	238.8	_____	241.2 mV
160 mV range, 120 mVrms	119.4	_____	120.6 mV
80 mV range, 60 mVrms	59.70	_____	60.30 mV
40 mV range, 30 mVrms	29.85	_____	30.15 mV
40 mV range, 5.0 mVrms	4.975	_____	5.025 mV

Level Meter Flatness (Step 15)

Channel A

10 Hz	-0.100	_____	+0.100 dBrA
15 Hz	-0.030	_____	+0.030 dBrA
20 Hz	-0.008	_____	+0.008 dBrA
50 Hz	-0.008	_____	+0.008 dBrA
10 kHz	-0.008	_____	+0.008 dBrA
20 kHz	-0.008	_____	+0.008 dBrA
50 kHz	-0.030	_____	+0.030 dBrA
120 kHz	-0.100	_____	+0.100 dBrA
500 kHz	-0.500	_____	+0.200 dBrA

Channel B

10 Hz	-0.100	_____	+0.100 dBrB
15 Hz	-0.030	_____	+0.030 dBrB
20 Hz	-0.008	_____	+0.008 dBrB
50 Hz	-0.008	_____	+0.008 dBrB
10 kHz	-0.008	_____	+0.008 dBrB
20 kHz	-0.008	_____	+0.008 dBrB
50 kHz	-0.030	_____	+0.030 dBrB
120 kHz	-0.100	_____	+0.100 dBrB
500 kHz	-0.500	_____	+0.200 dBrB

Amplitude Meter Accuracy (Step 16)

Channel A (2.5V input range)

x1 range, 2.000 Vrms	1.980	_____	2.020 V
x4 range, 500.0 mVrms	495.0	_____	505.0 mV
x16 range, 120.0 mVrms	118.8	_____	121.2 mV
x64 range, 30.00 mVrms	29.70	_____	30.30 mV
x256 range, 8.000 mVrms	7.920	_____	8.080 mV
x1024 range, 2.000 mVrms	1.980	_____	2.020 mV

Channel B (2.5V input range)

x1 range, 2.000 Vrms	1.980	_____	2.020 V
x4 range, 500.0 mVrms	495.0	_____	505.0 mV
x16 range, 120.0 mVrms	118.8	_____	121.2 mV
x64 range, 30.00 mVrms	29.70	_____	30.30 mV
x256 range, 8.000 mVrms	7.920	_____	8.080 mV
x1024 range, 2.000 mVrms	1.980	_____	2.020 mV

Amplitude Meter Flatness (Step 17)

x1 range (2.000 Vrms)

15 Hz	-0.050	_____	+0.050 dBrA
20 Hz	-0.020	_____	+0.020 dBrA
50 Hz	-0.020	_____	+0.020 dBrA
20 kHz	-0.020	_____	+0.020 dBrA
50 kHz	-0.050	_____	+0.050 dBrA
120 kHz	-0.150	_____	+0.150 dBrA
200 kHz	-0.300	_____	+0.200 dBrA

x16 range (120 mVrms)

15 Hz	-0.050	_____	+0.050 dBrA
20 Hz	-0.020	_____	+0.020 dBrA
50 Hz	-0.020	_____	+0.020 dBrA
20 kHz	-0.020	_____	+0.020 dBrA
50 kHz	-0.050	_____	+0.050 dBrA
120 kHz	-0.150	_____	+0.150 dBrA
200 kHz	-0.300	_____	+0.200 dBrA

x256 range (8 mVrms)

15 Hz	-0.050	_____	+0.050 dBrA
20 Hz	-0.020	_____	+0.020 dBrA
50 Hz	-0.020	_____	+0.020 dBrA
20 kHz	-0.020	_____	+0.020 dBrA
50 kHz	-0.050	_____	+0.050 dBrA
120 kHz	-0.150	_____	+0.150 dBrA
200 kHz	-0.300	_____	+0.200 dBrA

Bandwidth Limiting Filters (Step 18)22 Hz Highpass

22.4 Hz	-6.000	_____	-0.000 dBrA
31.5 Hz	-0.500	_____	+0.500 dBrA
50 Hz	-0.500	_____	+0.500 dBrA

100 Hz Highpass

95 Hz		_____	-3.000 dBrA
105 Hz	-3.000	_____	-0.000 dBrA

400 Hz Highpass

380 Hz		_____	-3.000 dBrA
420 Hz	-3.000	_____	-0.000 dBrA

22 kHz Lowpass

5 kHz	-0.500	_____	+0.500 dBrA
16 kHz	-0.500	_____	+0.500 dBrA
22.4 kHz	-6.000	_____	-0.000 dBrA

30 kHz Lowpass

28.5 kHz	-3.000	_____	-0.000 dBrA
31.5 kHz		_____	-3.000 dBrA

80 kHz Lowpass

76.0 kHz	-3.000	_____	-0.000 dBrA
84.0 kHz		_____	-3.000 dBrA

Residual Noise (Step 19)Channel A

22-22k BW		_____	1.00 μ V
10-80k BW		_____	2.00 μ V
Full BW		_____	6.00 μ V

Channel B

22-22k BW		_____	1.00 μ V
10-80k BW		_____	2.00 μ V
Full BW		_____	6.00 μ V

Bandpass Filter Response (Step 20)

20 Hz bandpass

10.00 Hz		_____	-32.000 dBrA
19.60 Hz	-0.300	_____	+0.300 dBrA
20.40 Hz	-0.300	_____	+0.300 dBrA
40.00 Hz		_____	-32.000 dBrA

1 kHz bandpass

500 Hz		_____	-32.000 dBrA
980 Hz	-0.300	_____	+0.300 dBrA
1.020 kHz	-0.300	_____	+0.300 dBrA
2.000 kHz		_____	-32.000 dBrA

20 kHz bandpass

10.0 kHz		_____	-32.000 dBrA
19.60 kHz	-0.300	_____	+0.300 dBrA
20.40 kHz	-0.300	_____	+0.300 dBrA
40.0 kHz		_____	-32.000 dBrA

100 kHz bandpass

50.0 kHz		_____	-32.000 dBrA
98.0 kHz	-0.300	_____	+0.300 dBrA
102.0 kHz	-0.300	_____	+0.300 dBrA
200.0 kHz		_____	-32.000 dBrA

Bandpass Measurement Accuracy (Step 21)

20 Hz, 1 Vrms	-0.300	_____	+0.300 dBV
1 kHz, 1 Vrms	-0.300	_____	+0.300 dBV
20 kHz, 1 Vrms	-0.300	_____	+0.300 dBV
120 kHz, 1 Vrms	-0.300	_____	+0.300 dBV

Residual Bandpass Noise (Step 22)

Channel A

1 kHz	_____	0.25 μ V
5 kHz	_____	0.25 μ V
20 kHz	_____	0.50 μ V
200 kHz	_____	1.50 μ V

Channel B

1 kHz	_____	0.25 μ V
5 kHz	_____	0.25 μ V
20 kHz	_____	0.50 μ V
200 kHz	_____	1.50 μ V

Bandreject & THD+N Accuracy (Step 23)

20 Hz notch

40 Hz	-0.300	_____	+0.300 dBV
60 Hz	-0.300	_____	+0.300 dBV
100 Hz	-0.300	_____	+0.300 dBV
1.0 kHz	-0.300	_____	+0.300 dBV
50 kHz	-0.300	_____	+0.300 dBV
120 kHz	-0.300	_____	+0.300 dBV

1 kHz notch

20 Hz	-0.300	_____	+0.300 dBV
500 Hz	-0.300	_____	+0.300 dBV
2.0 kHz	-0.300	_____	+0.300 dBV
3.0 kHz	-0.300	_____	+0.300 dBV
5.0 kHz	-0.300	_____	+0.300 dBV
120 kHz	-0.300	_____	+0.300 dBV

20 kHz notch

20 Hz	-0.300	_____	+0.300 dBV
1 kHz	-0.300	_____	+0.300 dBV
10 kHz	-0.300	_____	+0.300 dBV
40 kHz	-0.300	_____	+0.300 dBV
60 kHz	-0.300	_____	+0.300 dBV
120 kHz	-0.300	_____	+0.300 dBV

100 kHz notch

20 Hz	-0.300	_____	+0.300 dBV
1 kHz	-0.300	_____	+0.300 dBV
10 kHz	-0.300	_____	+0.300 dBV
20 kHz	-0.300	_____	+0.300 dBV
50 kHz	-0.300	_____	+0.300 dBV

Residual THD+N (Step 24)Channel A

Vin = 1.50V, 22 kHz analyzer BW

20Hz	_____	0.00040%
1 kHz	_____	0.00040%
5 kHz	_____	0.00040%
20 kHz	_____	0.00040%

Vin = 1.50V, 80 kHz analyzer BW

1 kHz	_____	0.00060%
20 kHz	_____	0.00060%

Vin = 1.50V, 500 kHz analyzer BW

10 Hz	_____	0.00400%
1 kHz	_____	0.00150%
20 kHz	_____	0.00150%
50 kHz	_____	0.00400%
100 kHz	_____	0.00400%

Channel B

Vin = 1.50V, 22 kHz analyzer BW

20Hz	_____	0.00040%
1 kHz	_____	0.00040%
5 kHz	_____	0.00040%
20 kHz	_____	0.00040%

Vin = 1.50V, 80 kHz analyzer BW

1 kHz	_____	0.00060%
20 kHz	_____	0.00060%

Vin = 1.50V, 500 kHz analyzer BW

10 Hz	_____	0.00400%
1 kHz	_____	0.00150%
20 kHz	_____	0.00150%
50 kHz	_____	0.00400%
100 kHz	_____	0.00400%

Crosstalk Measurement Accuracy (Step 25)

Ch B into Ch A

20 Hz	-60.400	_____	-59.600 dB
1 kHz	-60.400	_____	-59.600 dB
20 kHz	-60.400	_____	-59.600 dB
100 kHz	-60.400	_____	-59.600 dB

Ch A into Ch B

20 Hz	-60.400	_____	-59.600 dB
1 kHz	-60.400	_____	-59.600 dB
20 kHz	-60.400	_____	-59.600 dB
100 kHz	-60.400	_____	-59.600 dB

Phase Measurement Accuracy (Step 26)

10 Hz, dc coupled	-0.50	_____	+0.50 deg
10 Hz, ac coupled	-0.50	_____	+0.50 deg
1 kHz	-0.50	_____	+0.50 deg
1 kHz (Channel B inverted)	+179.50	_____	+180.50 deg
5 kHz	-0.50	_____	+0.50 deg
20 kHz	-1.00	_____	+1.00 deg
50 kHz	-2.00	_____	+2.00 deg

Frequency Measurement Accuracy (Step 27)

Channel A	-0.0006	_____	+0.0006 d%
Channel B	-0.0006	_____	+0.0006 d%

(±0.0030 d% is allowed for SYS-2022)

A-D CONVERTER RELATED (SYS-2222 & SYS-2322 only)

High Resolution A-D Residual Distortion (Step 28)

Channel 1

1 kHz	_____	-100.0 dBrA
5 kHz	_____	-100.0 dBrA

Channel 2

1 kHz	_____	-100.0 dBrB
5 kHz	_____	-100.0 dBrB

High Bandwidth A-D Residual Distortion (Step 29)

Channel 1

1 kHz	_____	-85.0 dBrA
20 kHz	_____	-85.0 dBrA

Channel 2

1 kHz	_____	-85.0 dBrB
20 kHz	_____	-85.0 dBrB

OPTION "BUR" RELATED**Burst OFF Ratio Accuracy (Step 30)**

0 dB	-0.300	_____	+0.300 dBrA
-10 dB	-10.300	_____	-9.700 dBrA
-20 dB	-20.300	_____	-19.700 dBrA
-30 dB	-30.300	_____	-29.700 dBrA
-40 dB	-40.300	_____	-39.700 dBrA
-50 dB	-50.300	_____	-49.700 dBrA
-60 dB	-60.300	_____	-59.700 dBrA

Squarewave Amplitude Accuracy (Step 31)

1.000V (100 Hz)	1.3859	_____	1.4425 Vrms
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OPTION "IMD" RELATED**Generator IMD Amplitude Accuracy (Step 32)**

SMPTE 4:1 Signal (60/7k)	0.8081	_____	0.8411 Vrms
SMPTE 1:1 Signal (60/7k)	0.6930	_____	0.7212 Vrms
DFD/CCIF Signal (15k/15.08k)	0.6859	_____	0.7283 Vrms
DIM Signal (DIM-100)	1.1150	_____	1.1605 Vrms

SMPTE LF Tone Accuracy (Step 33)

40 Hz	39.40	_____	40.60 Hz
50 Hz	49.25	_____	50.75 Hz
60 Hz	59.10	_____	60.90 Hz
70 Hz	68.95	_____	71.05 Hz
100 Hz	98.50	_____	101.50 Hz
125 Hz	123.13	_____	126.88 Hz
250 Hz	246.25	_____	253.75 Hz
500 Hz	492.50	_____	507.50 Hz

DIM Squarewave Accuracy (Step 34)

DIM-100 (3.15 kHz)	3.1185	_____	3.1815 kHz
DIM-30 (3.15 kHz)	3.1185	_____	3.1815 kHz
DIM-B (2.96 kHz)	2.9304	_____	2.9896 kHz

IMD Measurement Accuracy (Step 35)

SMPTE Mode (60/7k, 4:1)	-60.500	_____	-59.500 dB
DFD Mode (15k/15.08k)	-60.500	_____	-59.500 dB
DIM Mode (3.15k/15k)			
u4 (2.40 kHz)	-60.700	_____	-59.300 dB
u5 (750 Hz)	-60.700	_____	-59.300 dB

Residual IMD (Step 36)

Channel A

SMPTE (60/7k, 4:1), 26.66 V bal	_____	0.00150%
SMPTE (60/7k, 4:1), 1.00 V bal	_____	0.00150%
SMPTE (60/7k, 4:1), 200 mV bal	_____	0.00150%
DFD (14k/15k), 26.66 V bal	_____	0.00020%
DFD (14k/15k), 1.00 V bal	_____	0.00020%
DFD (14k/15k), 200 mV bal	_____	0.00020%
CCIF (14k/15k), 26.66 V bal	_____	0.00040%
CCIF (14k/15k), 1.00 V bal	_____	0.00040%
CCIF (14k/15k), 200 mV bal	_____	0.00040%
DIM (DIM-100), 26.66 V bal	_____	0.00200%
DIM (DIM-100), 1.00 V bal	_____	0.00200%
DIM (DIM-100), 200 mV bal	_____	0.00200%

Channel B

SMPTE (60/7k, 4:1), 26.66 V bal	_____	0.00150%
SMPTE (60/7k, 4:1), 1.00 V bal	_____	0.00150%
SMPTE (60/7k, 4:1), 200 mV bal	_____	0.00150%
DFD (14k/15k), 26.66 V bal	_____	0.00020%
DFD (14k/15k), 1.00 V bal	_____	0.00020%
DFD (14k/15k), 200 mV bal	_____	0.00020%
CCIF (14k/15k), 26.66 V bal	_____	0.00040%
CCIF (14k/15k), 1.00 V bal	_____	0.00040%
CCIF (14k/15k), 200 mV bal	_____	0.00040%
DIM (DIM-100), 26.66 V bal	_____	0.00200%
DIM (DIM-100), 1.00 V bal	_____	0.00200%
DIM (DIM-100), 200 mV bal	_____	0.00200%

OPTION “W&F” RELATED

Wow and Flutter Accuracy (Step 37)

IEC detection (unweighted)	0.9500	_____	1.0500%
NAB/JIS detection (unweighted)	0.6718	_____	0.7425%

Residual Wow and Flutter (Step 38)

IEC detection

Weighted	_____	0.00100%
Unweighted	_____	0.00200%

NAB/JIS detection

Weighted	_____	0.00100%
Unweighted	_____	0.00200%
Scrape (12.5 kHz test tone)	_____	0.00500%

AES/EBU GENERATION RELATED (SYS-2322 & SYS-2300 only)**Digital Output Amplitude Accuracy (Step 39)**Balanced Output

10.00 Vpp	9.00	_____	11.00 V
5.00 Vpp	4.42	_____	5.58 V
2.00 Vpp	1.72	_____	2.28 V
1.00 Vpp	0.82	_____	1.18 V

Unbalanced Output

2.000 Vpp	1.840	_____	2.160 V
1.000 Vpp	0.904	_____	1.096V
500 mVpp	444.0	_____	556.0 mV
200 mVpp	168.0	_____	232.0 mV

Variable Risetime (Step 40)

25 ns	20.00	_____	30.00 ns
50 ns	40.00	_____	60.00 ns
100 ns	80.00	_____	120.0 ns
250 ns	200.0	_____	300.0 ns

Jitter Accuracy (Step 41)Jitter Generator

9.757 UIpk	8.80	_____	10.70 UI
2.450 UIpk	2.25	_____	2.65 UI
0.510 UIpk	0.450	_____	0.570 UI
0.170 UIpk	0.145	_____	0.195 UI

Jitter Analyzer, Average Detector

0.510 UIpk	0.4593	_____	0.5763 UI
0.170 UIpk	0.1531	_____	0.2021 UI

Jitter Analyzer, Peak Detector

0.510 UIpk	0.4593	_____	0.6013 UI
0.170 UIpk	0.1531	_____	0.2271 UI

Residual Jitter (Step 42)

120Hz to 100kHz BW, average detection	_____	0.0175 UI
1200Hz to 100kHz BW, average detection	_____	0.0035 UI
120Hz to 100kHz BW, peak detection	_____	0.0450 UI
1200Hz to 100kHz BW, peak detection	_____	0.0150 UI

Spurious Jitter (Step 43)

Jitter generator OFF	_____	0.0010 UI
1.00 UI jitter	_____	0.0320 UI

Normal Mode Noise Amplitude (Step 44)

500 mVpp, unbalanced	450.0	_____	550.0 mV
100 mVpp, unbalanced	75.0	_____	125.0 mV

Common Mode Sine Amplitude (Step 45)

20.00 Vpp	18.00	_____	22.00 V
4.00 Vpp	3.60	_____	4.40 V
1.200 Vpp	1.000	_____	1.400 V
400 mVpp	200	_____	600 mV

AES/EBU MEASUREMENTS RELATED (SYS-2322 & SYS-2300 only)

Voltage Measurement Accuracy (Step 46)

Balanced Input

10.00 Vpp	9.50	_____	10.50 V
3.00 Vpp	2.80	_____	3.32 V
1.00 Vpp	0.900	_____	1.100 V
300 mVpp	235.0	_____	365 mV
100 mVpp	45.0	_____	155 mV

Unbalanced Input

2.000 Vpp	1.900	_____	2.100 V
500 mVpp	463.0	_____	537.0 mV
200 mVpp	178.0	_____	222.0 mV
50 mVpp	35.5	_____	64.5 mV

CM Voltage Measurement Accuracy (Step 47)

20.00 Vpp	18.00	_____	22.00 V
4.00 Vpp	3.60	_____	4.40 V
1.200 Vpp	0.900	_____	1.500 V
400 mVpp	100.0	_____	700.0 mV

Jitter Flatness (Step 48)

100 Hz	-1.00	_____	+1.00 dB
200 Hz	-1.00	_____	+1.00 dB
1 kHz	-1.00	_____	+1.00 dB
2.5 kHz	-1.00	_____	+1.00 dB
5 kHz	-1.00	_____	+1.00 dB
10 kHz	-1.00	_____	+1.00 dB
20 kHz	-1.00	_____	+1.00 dB