

<i>Title</i>	<i>ISC Whitening Chassis Test Data Form</i>
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<i>Date</i>	<i>16 March 2015</i>
<i>Hardware Version</i>	<i>D1002559 containing PCB D1001530-v5</i>

1 Overview

The form is a companion to T100291, ISC Chassis Manual Test Procedure and is used to record data taken on individual ISC Whitening Amplifier circuit boards (D1001530), or a pair as contained within the overall whitening amplifier chassis (D1002559).

2 Data Section

2.1 Component Identification

Record serial numbers of items tested per Table 1 below

Table 1 Initial Data

Item	Result
Date	
Tested By	
Chassis Serial Number (if applicable)	
Board 1 Serial Number	
Board 2 Serial Number (if applicable)	
Overall Test Result (Pass or Fail)	

3 DC Measurements

Measure the DC parameters per the test procedure and record the results in the following table.

Table 2 Overall DC Measurements

Quiescent Current Draw (mA)	Measured Value	Pass	Fail
+15V Supply Voltage		<input type="checkbox"/>	<input type="checkbox"/>
-15V Supply Voltage		<input type="checkbox"/>	<input type="checkbox"/>
+15V Supply Current		<input type="checkbox"/>	<input type="checkbox"/>
-15V Supply Current		<input type="checkbox"/>	<input type="checkbox"/>
Front and Rear LED Functionality		<input type="checkbox"/>	<input type="checkbox"/>

4 Transfer Functions

Measure the transfer functions per the test procedure and record the results in the following table.

Table 3, Measured Transfer Functions (channel 1)

Gain State	Gain at 10Hz	Phase at 10Hz	Gain at 1kHz	Phase at 1kHz	Pass	Fail
0dB					<input type="checkbox"/>	<input type="checkbox"/>
3dB					<input type="checkbox"/>	<input type="checkbox"/>
6dB					<input type="checkbox"/>	<input type="checkbox"/>
12dB					<input type="checkbox"/>	<input type="checkbox"/>
24dB					<input type="checkbox"/>	<input type="checkbox"/>
45dB (all DC gain)					<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only					<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter					<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter					<input type="checkbox"/>	<input type="checkbox"/>
Everything On					<input type="checkbox"/>	<input type="checkbox"/>

Table 4 Measured Transfer Functions (channel 2)

Gain State	Gain at 10Hz	Phase at 10Hz	Gain at 1kHz	Phase at 1kHz	Pass	Fail
0dB					<input type="checkbox"/>	<input type="checkbox"/>
3dB					<input type="checkbox"/>	<input type="checkbox"/>
6dB					<input type="checkbox"/>	<input type="checkbox"/>
12dB					<input type="checkbox"/>	<input type="checkbox"/>
24dB					<input type="checkbox"/>	<input type="checkbox"/>
45dB (all DC gain)					<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only					<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter					<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter					<input type="checkbox"/>	<input type="checkbox"/>
Everything On					<input type="checkbox"/>	<input type="checkbox"/>

Table 5 Measured Transfer Functions (channel 3)

Gain State	Gain at 10Hz	Phase at 10Hz	Gain at 1kHz	Phase at 1kHz	Pass	Fail
0dB					<input type="checkbox"/>	<input type="checkbox"/>
3dB					<input type="checkbox"/>	<input type="checkbox"/>
6dB					<input type="checkbox"/>	<input type="checkbox"/>
12dB					<input type="checkbox"/>	<input type="checkbox"/>
24dB					<input type="checkbox"/>	<input type="checkbox"/>
45dB (all DC gain)					<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only					<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter					<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter					<input type="checkbox"/>	<input type="checkbox"/>

Gain State	Gain at 10Hz	Phase at 10Hz	Gain at 1kHz	Phase at 1kHz	Pass	Fail
Everything On					<input type="checkbox"/>	<input type="checkbox"/>

Table 6 Measured Transfer Functions (channel 4)

Gain State	Gain at 10Hz	Phase at 10Hz	Gain at 1kHz	Phase at 1kHz	Pass	Fail
0dB					<input type="checkbox"/>	<input type="checkbox"/>
3dB					<input type="checkbox"/>	<input type="checkbox"/>
6dB					<input type="checkbox"/>	<input type="checkbox"/>
12dB					<input type="checkbox"/>	<input type="checkbox"/>
24dB					<input type="checkbox"/>	<input type="checkbox"/>
45dB (all DC gain)					<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only					<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter					<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter					<input type="checkbox"/>	<input type="checkbox"/>
Everything On					<input type="checkbox"/>	<input type="checkbox"/>

Table 7 Measured Transfer Functions (channel 5)

Gain State	Gain at 10Hz	Phase at 10Hz	Gain at 1kHz	Phase at 1kHz	Pass	Fail
0dB					<input type="checkbox"/>	<input type="checkbox"/>
3dB					<input type="checkbox"/>	<input type="checkbox"/>
6dB					<input type="checkbox"/>	<input type="checkbox"/>
12dB					<input type="checkbox"/>	<input type="checkbox"/>
24dB					<input type="checkbox"/>	<input type="checkbox"/>
45dB (all DC gain)					<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only					<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter					<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter					<input type="checkbox"/>	<input type="checkbox"/>
Everything On					<input type="checkbox"/>	<input type="checkbox"/>

Table 8 Measured Transfer Functions (channel 6)

Gain State	Gain at 10Hz	Phase at 10Hz	Gain at 1kHz	Phase at 1kHz	Pass	Fail
0dB					<input type="checkbox"/>	<input type="checkbox"/>
3dB					<input type="checkbox"/>	<input type="checkbox"/>
6dB					<input type="checkbox"/>	<input type="checkbox"/>
12dB					<input type="checkbox"/>	<input type="checkbox"/>
24dB					<input type="checkbox"/>	<input type="checkbox"/>
45dB (all DC gain)					<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only					<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter					<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter					<input type="checkbox"/>	<input type="checkbox"/>
Everything On					<input type="checkbox"/>	<input type="checkbox"/>

Table 9 Measured Transfer Functions (channel 7)

Gain State	Gain at 10Hz	Phase at 10Hz	Gain at 1kHz	Phase at 1kHz	Pass	Fail
0dB					<input type="checkbox"/>	<input type="checkbox"/>
3dB					<input type="checkbox"/>	<input type="checkbox"/>
6dB					<input type="checkbox"/>	<input type="checkbox"/>
12dB					<input type="checkbox"/>	<input type="checkbox"/>
24dB					<input type="checkbox"/>	<input type="checkbox"/>
45dB (all DC gain)					<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only					<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter					<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter					<input type="checkbox"/>	<input type="checkbox"/>
Everything On					<input type="checkbox"/>	<input type="checkbox"/>

Table 10 Measured Transfer Functions (channel 8)

Gain State	Gain at 10Hz	Phase at 10Hz	Gain at 1kHz	Phase at 1kHz	Pass	Fail
0dB					<input type="checkbox"/>	<input type="checkbox"/>
3dB					<input type="checkbox"/>	<input type="checkbox"/>
6dB					<input type="checkbox"/>	<input type="checkbox"/>
12dB					<input type="checkbox"/>	<input type="checkbox"/>
24dB					<input type="checkbox"/>	<input type="checkbox"/>
45dB (all DC gain)					<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only					<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter					<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter					<input type="checkbox"/>	<input type="checkbox"/>
Everything On					<input type="checkbox"/>	<input type="checkbox"/>

5 Noise Measurements

Measure the output noise per the test procedure and record the results in the following table.

Table 11 Measured Noise Parameters (Channel 1)

Gain State	Noise at 10Hz (dBVrms/ $\sqrt{\text{Hz}}$)	Noise at 1kHz (dBVrms/ $\sqrt{\text{Hz}}$)	Pass	Fail
0dB			<input type="checkbox"/>	<input type="checkbox"/>
3dB			<input type="checkbox"/>	<input type="checkbox"/>
9dB			<input type="checkbox"/>	<input type="checkbox"/>
21dB			<input type="checkbox"/>	<input type="checkbox"/>
45dB			<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only			<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter			<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter			<input type="checkbox"/>	<input type="checkbox"/>
Everything On			<input type="checkbox"/>	<input type="checkbox"/>

Table 12 Measured Noise Parameters (Channel 2)

Gain State	Noise at 10Hz (dBVrms/ $\sqrt{\text{Hz}}$)	Noise at 1kHz (dBVrms/ $\sqrt{\text{Hz}}$)	Pass	Fail
0dB			<input type="checkbox"/>	<input type="checkbox"/>
3dB			<input type="checkbox"/>	<input type="checkbox"/>
9dB			<input type="checkbox"/>	<input type="checkbox"/>
21dB			<input type="checkbox"/>	<input type="checkbox"/>
45dB			<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only			<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter			<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter			<input type="checkbox"/>	<input type="checkbox"/>
Everything On			<input type="checkbox"/>	<input type="checkbox"/>

Table 13 Measured Noise Parameters (Channel 3)

Gain State	Noise at 10Hz (dBVrms/ $\sqrt{\text{Hz}}$)	Noise at 1kHz (dBVrms/ $\sqrt{\text{Hz}}$)	Pass	Fail
0dB			<input type="checkbox"/>	<input type="checkbox"/>
3dB			<input type="checkbox"/>	<input type="checkbox"/>
9dB			<input type="checkbox"/>	<input type="checkbox"/>
21dB			<input type="checkbox"/>	<input type="checkbox"/>
45dB			<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only			<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter			<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter			<input type="checkbox"/>	<input type="checkbox"/>
Everything On			<input type="checkbox"/>	<input type="checkbox"/>

Table 14 Measured Noise Parameters (Channel 4)

Gain State	Noise at 10Hz (dBVrms/ $\sqrt{\text{Hz}}$)	Noise at 1kHz (dBVrms/ $\sqrt{\text{Hz}}$)	Pass	Fail
0dB			<input type="checkbox"/>	<input type="checkbox"/>
3dB			<input type="checkbox"/>	<input type="checkbox"/>
9dB			<input type="checkbox"/>	<input type="checkbox"/>
21dB			<input type="checkbox"/>	<input type="checkbox"/>
45dB			<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only			<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter			<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter			<input type="checkbox"/>	<input type="checkbox"/>
Everything On			<input type="checkbox"/>	<input type="checkbox"/>

Table 15 Measured Noise Parameters (Channel 5)

Gain State	Noise at 10Hz (dBVrms/ $\sqrt{\text{Hz}}$)	Noise at 1kHz (dBVrms/ $\sqrt{\text{Hz}}$)	Pass	Fail
0dB			<input type="checkbox"/>	<input type="checkbox"/>
3dB			<input type="checkbox"/>	<input type="checkbox"/>
9dB			<input type="checkbox"/>	<input type="checkbox"/>

Gain State	Noise at 10Hz (dBVrms/ $\sqrt{\text{Hz}}$)	Noise at 1kHz (dBVrms/ $\sqrt{\text{Hz}}$)	Pass	Fail
21dB			<input type="checkbox"/>	<input type="checkbox"/>
45dB			<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only			<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter			<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter			<input type="checkbox"/>	<input type="checkbox"/>
Everything On			<input type="checkbox"/>	<input type="checkbox"/>

Table 16 Measured Noise Parameters (Channel 6)

Gain State	Noise at 10Hz (dBVrms/ $\sqrt{\text{Hz}}$)	Noise at 1kHz (dBVrms/ $\sqrt{\text{Hz}}$)	Pass	Fail
0dB			<input type="checkbox"/>	<input type="checkbox"/>
3dB			<input type="checkbox"/>	<input type="checkbox"/>
9dB			<input type="checkbox"/>	<input type="checkbox"/>
21dB			<input type="checkbox"/>	<input type="checkbox"/>
45dB			<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only			<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter			<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter			<input type="checkbox"/>	<input type="checkbox"/>
Everything On			<input type="checkbox"/>	<input type="checkbox"/>

Table 17 Measured Noise Parameters (Channel 7)

Gain State	Noise at 10Hz (dBVrms/ $\sqrt{\text{Hz}}$)	Noise at 1kHz (dBVrms/ $\sqrt{\text{Hz}}$)	Pass	Fail
0dB			<input type="checkbox"/>	<input type="checkbox"/>
3dB			<input type="checkbox"/>	<input type="checkbox"/>
9dB			<input type="checkbox"/>	<input type="checkbox"/>
21dB			<input type="checkbox"/>	<input type="checkbox"/>
45dB			<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only			<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter			<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter			<input type="checkbox"/>	<input type="checkbox"/>
Everything On			<input type="checkbox"/>	<input type="checkbox"/>

Table 18 Measured Noise Parameters (Channel 8)

Gain State	Noise at 10Hz (dBVrms/ $\sqrt{\text{Hz}}$)	Noise at 1kHz (dBVrms/ $\sqrt{\text{Hz}}$)	Pass	Fail
0dB			<input type="checkbox"/>	<input type="checkbox"/>
3dB			<input type="checkbox"/>	<input type="checkbox"/>
9dB			<input type="checkbox"/>	<input type="checkbox"/>
21dB			<input type="checkbox"/>	<input type="checkbox"/>
45dB			<input type="checkbox"/>	<input type="checkbox"/>
1st Filter only			<input type="checkbox"/>	<input type="checkbox"/>
1st & 2nd Filter			<input type="checkbox"/>	<input type="checkbox"/>
1st, 2nd & 3rd Filter			<input type="checkbox"/>	<input type="checkbox"/>
Everything On			<input type="checkbox"/>	<input type="checkbox"/>