



|                            |  |                                |  |
|----------------------------|--|--------------------------------|--|
| <b>Model Number</b>        | B2912A   | <b>Customer</b>                | Keysight Technologies Deutschland GmbH |
| <b>Manufacturer</b>        | Keysight Technologies Inc  |                                | Herrenberger Strasse 130               |
| <b>Description</b>         | Precision Source/Measure Unit, 2ch, 10fA resolution, 210V, 3A DC/10.5A pulse |                                | 71034 BOEBLINGEN                       |
| <b>Serial Number</b>       | HERE SN  |                                | Germany                                |
| <b>Customer Asset No.</b>  | - HERE ASSET ID -  | <b>Location of Calibration</b> | Keysight Technologies UK Limited       |
| <b>Options Installed</b>   | - HERE OPTIONS -   |                                | 610 Wharfedale Road                    |
| <b>Date of Calibration</b> | 15 Jan 2020  |                                | Winnersh Triangle                      |
| <b>Procedure</b>           | STE-50114579-A.02.03   |                                | Wokingham Berkshire RG41 5TP           |
| <b>Temperature</b>         | (23 ± 5) °C  |                                | UNITED KINGDOM                         |
| <b>Humidity</b>            | (45 ± 25) %RH  |                                |  |

This certifies that the equipment has been calibrated using applicable Keysight Technologies procedures and accredited to ISO/IEC 17025:2017. The quality management system is registered to ISO 9001:2015.

#### As Received Conditions

The expanded measurement uncertainty intervals about one or more measured values were in as well as out of specification. Consequently, neither compliance nor non-compliance with specification can be declared based on the stated coverage probability.

#### Action Taken

- The equipment was adjusted.

#### As Completed Conditions

The measured values of the equipment were observed in specification at the points tested. Additionally, the expanded measurement uncertainty intervals about the measured values were in specification.

#### Remarks or Special Requirements

This calibration report shall not be reproduced, except in full. The documented results relate to the equipment calibrated only.

The test limits stated in the report correspond to the published specifications of the equipment, at the points tested.  
This calibration report may refer to equipment manufactured by HP, Agilent and Keysight as being manufactured by Keysight Technologies.





## Traceability Information

Technician ID Number 0012

Measurements are traceable to the International System of Units (SI) via national metrology institutes ([www.keysight.com/find/NMI](http://www.keysight.com/find/NMI)) that are signatories to the CIPM Mutual Recognition Arrangement.

## Calibration Equipment Used

| Model Number | Model Description                                  | Equipment ID | Cal Due Date |
|--------------|--|--------------|--------------|
| 16353A       | Standard resistor set for calibrating 4155/56/4070 | UK16429      | 8 May 2021   |
| 16353J       | Standard resistor, 10m Ohm                         | UK16238      | 12 Nov 2021  |
| 3458A        | Digital multimeter, 8.5 digit                      | UK12606      | 10 Dec 2020  |

## Traceability Table

|     | Model  | Model Description                                  | Equipment ID | Certificate Number          | Trace Value                            |
|-----|--------|--|--------------|-----------------------------|--|
| W,R | 16353A | Standard resistor set for calibrating 4155/56/4070 | UK16429      | 1-xxxxxxxxxxx-1-JCSS:0048   | Resistance                             |
| W,R | 16353J | Standard resistor, 10m Ohm                         | UK16238      | 1-xxxxxxxxxxx-1-UKAS:C 0147 | Resistance                             |
| W,R | 3458A  | Digital multimeter, 8.5 digit                      | UK12606      | 1-xxxxxxxxxxx-1-UKAS:C 0147 | DC Current<br>DC Voltage<br>Resistance |

## Legend

**W - Working Standard** The calibration equipment used for the calibration of the Model indicated on the first page of the Certificate of calibration.

**R - Reference Standard** The Reference Standard (Accredited or NMI-calibrated ETE) used to provide traceability to the SI-Units for the calibration parameters listed.

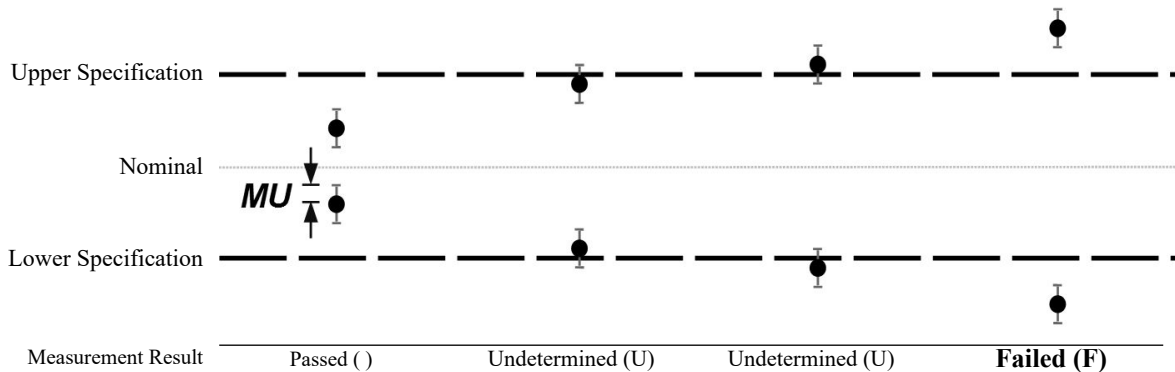
## Compliance with Specification

The uncertainty of measurement has been taken into account when determining compliance with specification, as per ILAC-G8:03/2009. If the expanded measurement uncertainty intervals centered about one or more measured values were both in as well as out of specification (upper or lower), it is not possible to state compliance or non-compliance based on a 95% coverage probability for the expanded measurement uncertainty.

An overall statement of compliance for all tests performed as received, and as completed (if any adjustments / repairs were performed) is included at the beginning of this report. Statements of compliance apply only to warranted specifications. When functional verification tests are performed, results are reported in the "Functional Test" section, and do not affect these statements of compliance. The status summaries relate to the tested item only. A final decision about whether the item's performance actually satisfies requirements of the user can only be made by the user.

### Measurement results are reported as:

- Passed ( ) - The measured values of the equipment were observed in specification at the points tested. Additionally, the expanded measurement uncertainty intervals about the measured values were in specification.
- Undetermined (U) - The expanded measurement uncertainty intervals about one or more measured values were in as well as out of specification. Consequently, neither compliance nor non-compliance with specification can be declared based on the stated coverage probability.
- Failed (F) - One or more measured values of the equipment were observed out of specification at the points tested. Additionally, the expanded measurement uncertainty intervals about one or more measured values were entirely outside the specification.



( ) This result is indicated on the measurement report as a blank space in the column labeled "Status" or "Sts".  
 MU = 95% expanded measurement uncertainty.

### Acceptance Limit

The "Keysight Cal + Uncertainties + Guardbanding" service employs a guard band in the amount of the 95% expanded measurement uncertainty (MU). The resulting acceptance limit applied for Pass or Fail decisions, and for performing adjustments, is the difference of the specification and the guard band.

### Uncertainty of Measurement

The uncertainty evaluation has been performed in accordance with ISO/IEC Guide 98-3:2008 (GUM). The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k$  such that the coverage probability corresponds to approximately 95%. This probability corresponds to a coverage factor of  $k=2$  for a normal distribution.



## Calibration Test Results Summary

| Test Name                        | As Received Status  | As Completed Status |
|----------------------------------|---------------------|---------------------|
| CH1 VOLT MEAS AND OUTP ACCY      | Passed              | Passed              |
| CH1 LOW CURR MEAS AND OUTP ACCY  | Passed              | Passed              |
| CH1 HIGH CAP CURR ACCY           | Passed              | Passed              |
| CH1 MIDD CURR MEAS AND OUTP ACCY | Passed              | Passed              |
| CH1 HIGH CURR MEAS AND OUTP ACCY | Passed              | Passed              |
| CH2 VOLT MEAS AND OUTP ACCY      | Passed              | Passed              |
| CH2 LOW CURR MEAS AND OUTP ACCY  | Passed              | Passed              |
| CH2 HIGH CAP CURR ACCY           | Passed              | Passed              |
| CH2 MIDD CURR MEAS AND OUTP ACCY | <b>Undetermined</b> | Passed              |
| CH2 HIGH CURR MEAS AND OUTP ACCY | Passed              | Passed              |

## Functional Test Results Summary

The following functional test results are not part of an accredited delivery, even if they are part of an otherwise accredited calibration report.

The following tests document the functional verification of the instruments' non-warranted performance. Neither a statement of conformance or decision rule is used for a Functional Test, measurement uncertainties are only provided by exception. For a "Functional Test" the test results are reported as "As Expected" when showing expected performance and "Not As Expected" otherwise. "As Expected" results of individual test points are indicated in the measurement report by a blank space in the column labeled "Status" to allow easier recognition of any "Not As Expected" points. If a functional test result is reported as "Not As Expected", repair and/or adjustment is recommended. Test results reported as "Done" are possible if no limits are applied. For qualitative or quantitative "Functional Tests" the test results are not warranted, and no judgment is made. The "actual" measured results are helpful to users for some applications.

| Test Name         | As Received Status | As Completed Status |
|-------------------|--------------------|---------------------|
| SELF CAL AND TEST | As Expected        | As Expected         |
| CH1 CURRENT CMR   | As Expected        | As Expected         |
| CH1 VOLTAGE CMR   | As Expected        | As Expected         |
| CH2 CURRENT CMR   | As Expected        | As Expected         |
| CH2 VOLTAGE CMR   | As Expected        | As Expected         |

## CH1 VOLT MEAS AND OUTP ACCY

**Passed**

| TEST CONDITIONS             | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.     | Status |
|-----------------------------|--------------|--------------|--------------|-------------|--------|
| Voltage Measure Range 0.2 V |              |              |              |             |        |
| -0.21 V                     | -0.2102565 V | -0.2099900 V | -0.2097435 V | 0.000014 V  |        |
| -0.1 V                      | -0.1002400 V | -0.0999946 V | -0.0997600 V | 0.000014 V  |        |
| 0 V                         | -0.0002250 V | 0.0000035 V  | 0.0002250 V  | 0.0000032 V |        |
| 0.1 V                       | 0.0997600 V  | 0.1000033 V  | 0.1002400 V  | 0.000014 V  |        |
| 0.21 V                      | 0.2097435 V  | 0.2100105 V  | 0.2102565 V  | 0.000014 V  |        |
| Voltage Measure Range 2 V   |              |              |              |             |        |
| -2.1 V                      | -2.100770 V  | -2.099940 V  | -2.099230 V  | 0.000064 V  |        |
| -1 V                        | -1.000550 V  | -1.000003 V  | -0.999450 V  | 0.000061 V  |        |
| 0 V                         | -0.000350 V  | -0.000013 V  | 0.000350 V   | 0.0000033 V |        |
| 1 V                         | 0.999450 V   | 0.999983 V   | 1.000550 V   | 0.000061 V  |        |
| 2.1 V                       | 2.099230 V   | 2.100061 V   | 2.100770 V   | 0.000064 V  |        |
| Voltage Measure Range 20 V  |              |              |              |             |        |
| -21 V                       | -21.00815 V  | -20.99880 V  | -20.99185 V  | 0.00061 V   |        |
| -10 V                       | -10.00650 V  | -9.99975 V   | -9.99350 V   | 0.00056 V   |        |
| 0 V                         | -0.00500 V   | -0.00017 V   | 0.00500 V    | 0.000073 V  |        |
| 10 V                        | 9.99350 V    | 9.99949 V    | 10.00650 V   | 0.00056 V   |        |
| 21 V                        | 20.99185 V   | 21.00021 V   | 21.00815 V   | 0.00061 V   |        |
| Voltage Measure Range 200 V |              |              |              |             |        |
| -210 V                      | -210.0815 V  | -209.9850 V  | -209.9185 V  | 0.011 V     |        |
| -100 V                      | -100.0650 V  | -99.9971 V   | -99.9350 V   | 0.011 V     |        |
| 0 V                         | -0.0500 V    | -0.0013 V    | 0.0500 V     | 0.00050 V   |        |
| 100 V                       | 99.9350 V    | 99.9948 V    | 100.0650 V   | 0.011 V     |        |
| 210 V                       | 209.9185 V   | 210.0006 V   | 210.0815 V   | 0.011 V     |        |
| Voltage Source Range 0.2 V  |              |              |              |             |        |
| -0.21 V                     | -0.2102565 V | -0.2100098 V | -0.2097435 V | 0.000014 V  |        |
| -0.1 V                      | -0.1002400 V | -0.1000051 V | -0.0997600 V | 0.000014 V  |        |
| 0 V                         | -0.0002250 V | -0.0000042 V | 0.0002250 V  | 0.0000033 V |        |
| 0.1 V                       | 0.0997600 V  | 0.0999973 V  | 0.1002400 V  | 0.000014 V  |        |
| 0.21 V                      | 0.2097435 V  | 0.2099899 V  | 0.2102565 V  | 0.000014 V  |        |
| Voltage Source Range 2 V    |              |              |              |             |        |
| -2.1 V                      | -2.100770 V  | -2.100061 V  | -2.099230 V  | 0.000064 V  |        |
| -1 V                        | -1.000550 V  | -0.999997 V  | -0.999450 V  | 0.000061 V  |        |
| 0 V                         | -0.000350 V  | 0.000013 V   | 0.000350 V   | 0.0000062 V |        |
| 1 V                         | 0.999450 V   | 1.000017 V   | 1.000550 V   | 0.000061 V  |        |
| 2.1 V                       | 2.099230 V   | 2.099939 V   | 2.100770 V   | 0.000064 V  |        |
| Voltage Source Range 20 V   |              |              |              |             |        |
| -21 V                       | -21.00815 V  | -21.00120 V  | -20.99185 V  | 0.00061 V   |        |
| -10 V                       | -10.00650 V  | -10.00025 V  | -9.99350 V   | 0.00056 V   |        |
| 0 V                         | -0.00500 V   | 0.00017 V    | 0.00500 V    | 0.00011 V   |        |
| 10 V                        | 9.99350 V    | 10.00051 V   | 10.00650 V   | 0.00056 V   |        |
| 21 V                        | 20.99185 V   | 20.99979 V   | 21.00815 V   | 0.00061 V   |        |

Model B2912A Serial HERE SN  
Options Tested

Test Date 12 Dec 2019  
Condition As Received

## CH1 VOLT MEAS AND OUTP ACCY (cont.)

| TEST CONDITIONS            | MINIMUM     | MEASURED    | MAXIMUM     | UNCERT.   | Status |
|----------------------------|-------------|-------------|-------------|-----------|--------|
| Voltage Source Range 200 V |             |             |             |           |        |
| -210 V                     | -210.0815 V | -210.0150 V | -209.9185 V | 0.011 V   |        |
| -100 V                     | -100.0650 V | -100.0029 V | -99.9350 V  | 0.011 V   |        |
| 0 V                        | -0.0500 V   | 0.0013 V    | 0.0500 V    | 0.00088 V |        |
| 100 V                      | 99.9350 V   | 100.0052 V  | 100.0650 V  | 0.011 V   |        |
| 210 V                      | 209.9185 V  | 209.9994 V  | 210.0815 V  | 0.011 V   |        |

## CH1 LOW CURR MEAS AND OUTP ACCY

**Passed**

| TEST COND.                   | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|------------------------------|--------------|--------------|--------------|--------------|--------|
| Current Measure Range 10 nA  |              |              |              |              |        |
| -10.5 nA                     | -10.56050 nA | -10.49123 nA | -10.43950 nA | 0.0052 nA    |        |
| -5 nA                        | -5.05500 nA  | -4.99581 nA  | -4.94500 nA  | 0.0025 nA    |        |
| 0 nA                         | -0.05000 nA  | 0.00005 nA   | 0.05000 nA   | 0.00022 nA   |        |
| 5 nA                         | 4.94500 nA   | 4.99600 nA   | 5.05500 nA   | 0.0025 nA    |        |
| 10.5 nA                      | 10.43950 nA  | 10.49184 nA  | 10.56050 nA  | 0.0052 nA    |        |
| Current Measure Range 100 nA |              |              |              |              |        |
| -105 nA                      | -105.1630 nA | -104.9935 nA | -104.8370 nA | 0.0074 nA    |        |
| -50 nA                       | -50.1300 nA  | -49.9958 nA  | -49.8700 nA  | 0.0037 nA    |        |
| 0 nA                         | -0.1000 nA   | 0.0010 nA    | 0.1000 nA    | 0.00078 nA   |        |
| 50 nA                        | 49.8700 nA   | 50.0016 nA   | 50.1300 nA   | 0.0037 nA    |        |
| 105 nA                       | 104.8370 nA  | 105.0029 nA  | 105.1630 nA  | 0.0074 nA    |        |
| Current Measure Range 1 uA   |              |              |              |              |        |
| -1.05 uA                     | -1.050763 uA | -1.050010 uA | -1.049238 uA | 0.000062 uA  |        |
| -0.5 uA                      | -0.500625 uA | -0.500003 uA | -0.499375 uA | 0.000032 uA  |        |
| 0 uA                         | -0.000500 uA | 0.000009 uA  | 0.000500 uA  | 0.0000051 uA |        |
| 0.5 uA                       | 0.499375 uA  | 0.500060 uA  | 0.500625 uA  | 0.000032 uA  |        |
| 1.05 uA                      | 1.049238 uA  | 1.050083 uA  | 1.050763 uA  | 0.000062 uA  |        |
| Current Measure Range 10 uA  |              |              |              |              |        |
| -10.5 uA                     | -10.50413 uA | -10.50039 uA | -10.49588 uA | 0.00039 uA   |        |
| -5 uA                        | -5.00275 uA  | -5.00015 uA  | -4.99725 uA  | 0.00020 uA   |        |
| 0 uA                         | -0.00150 uA  | 0.00009 uA   | 0.00150 uA   | 0.000056 uA  |        |
| 5 uA                         | 4.99725 uA   | 5.00067 uA   | 5.00275 uA   | 0.00020 uA   |        |
| 10.5 uA                      | 10.49588 uA  | 10.50099 uA  | 10.50413 uA  | 0.00039 uA   |        |
| Current Source Range 10 nA   |              |              |              |              |        |
| -10.5 nA                     | -10.56050 nA | -10.50876 nA | -10.43950 nA | 0.0052 nA    |        |
| -5 nA                        | -5.05500 nA  | -5.00419 nA  | -4.94500 nA  | 0.0025 nA    |        |
| 0 nA                         | -0.05000 nA  | -0.00006 nA  | 0.05000 nA   | 0.00022 nA   |        |
| 5 nA                         | 4.94500 nA   | 5.00399 nA   | 5.05500 nA   | 0.0025 nA    |        |
| 10.5 nA                      | 10.43950 nA  | 10.50814 nA  | 10.56050 nA  | 0.0052 nA    |        |
| Current Source Range 100 nA  |              |              |              |              |        |
| -105 nA                      | -105.1630 nA | -105.0065 nA | -104.8370 nA | 0.0074 nA    |        |
| -50 nA                       | -50.1300 nA  | -50.0043 nA  | -49.8700 nA  | 0.0037 nA    |        |

Model B2912A Serial HERE SN  
Options Tested

Test Date 12 Dec 2019  
Condition As Received

## CH1 LOW CURR MEAS AND OUTP ACCY (cont.)

| TEST COND.                 | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|----------------------------|--------------|--------------|--------------|--------------|--------|
| 0 nA                       | -0.1000 nA   | -0.0011 nA   | 0.1000 nA    | 0.00078 nA   |        |
| 50 nA                      | 49.8700 nA   | 49.9983 nA   | 50.1300 nA   | 0.0037 nA    |        |
| 105 nA                     | 104.8370 nA  | 104.9970 nA  | 105.1630 nA  | 0.0074 nA    |        |
| Current Source Range 1 uA  |              |              |              |              |        |
| -1.05 uA                   | -1.050763 uA | -1.049990 uA | -1.049238 uA | 0.000062 uA  |        |
| -0.5 uA                    | -0.500625 uA | -0.499998 uA | -0.499375 uA | 0.000032 uA  |        |
| 0 uA                       | -0.000500 uA | -0.000009 uA | 0.000500 uA  | 0.0000051 uA |        |
| 0.5 uA                     | 0.499375 uA  | 0.499940 uA  | 0.500625 uA  | 0.000032 uA  |        |
| 1.05 uA                    | 1.049238 uA  | 1.049917 uA  | 1.050763 uA  | 0.000062 uA  |        |
| Current Source Range 10 uA |              |              |              |              |        |
| -10.5 uA                   | -10.50413 uA | -10.49961 uA | -10.49588 uA | 0.00038 uA   |        |
| -5 uA                      | -5.00275 uA  | -4.99986 uA  | -4.99725 uA  | 0.00020 uA   |        |
| 0 uA                       | -0.00150 uA  | -0.00008 uA  | 0.00150 uA   | 0.000081 uA  |        |
| 5 uA                       | 4.99725 uA   | 4.99933 uA   | 5.00275 uA   | 0.00020 uA   |        |
| 10.5 uA                    | 10.49588 uA  | 10.49901 uA  | 10.50413 uA  | 0.00038 uA   |        |

## CH1 HIGH CAP CURR ACCY

Passed

| TEST COND.                 | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|----------------------------|--------------|--------------|--------------|--------------|--------|
| Current Measure Range 1 uA |              |              |              |              |        |
| -1 uA                      | -1.000750 uA | -1.000020 uA | -0.999250 uA | 0.000058 uA  |        |
| -0.1 uA                    | -0.100525 uA | -0.099997 uA | -0.099475 uA | 0.000013 uA  |        |
| 0.1 uA                     | 0.099475 uA  | 0.100002 uA  | 0.100525 uA  | 0.000012 uA  |        |
| 1 uA                       | 0.999250 uA  | 1.000060 uA  | 1.000750 uA  | 0.000059 uA  |        |
| Current Source Range 1 uA  |              |              |              |              |        |
| -1 uA                      | -1.000750 uA | -0.999854 uA | -0.999250 uA | 0.000063 uA  |        |
| -0.1 uA                    | -0.100525 uA | -0.099988 uA | -0.099475 uA | 0.000010 uA  |        |
| 0.1 uA                     | 0.099475 uA  | 0.099991 uA  | 0.100525 uA  | 0.0000096 uA |        |
| 1 uA                       | 0.999250 uA  | 0.999886 uA  | 1.000750 uA  | 0.000059 uA  |        |

## CH1 MIDD CURR MEAS AND OUTP ACCY

Passed

| TEST COND.                   | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|------------------------------|--------------|--------------|--------------|--------------|--------|
| Current Measure Range 100 uA |              |              |              |              |        |
| -105 uA                      | -105.0460 uA | -105.0136 uA | -104.9540 uA | 0.0047 uA    |        |
| -50 uA                       | -50.0350 uA  | -50.0062 uA  | -49.9650 uA  | 0.0032 uA    |        |
| 0 uA                         | -0.0250 uA   | 0.0001 uA    | 0.0250 uA    | 0.0013 uA    |        |
| 50 uA                        | 49.9650 uA   | 50.0098 uA   | 50.0350 uA   | 0.0032 uA    |        |
| 105 uA                       | 104.9540 uA  | 105.0167 uA  | 105.0460 uA  | 0.0047 uA    |        |
| Current Measure Range 1 mA   |              |              |              |              |        |
| -1.05 mA                     | -1.050410 mA | -1.050065 mA | -1.049590 mA | 0.000043 mA  |        |
| -0.5 mA                      | -0.500300 mA | -0.500030 mA | -0.499700 mA | 0.000030 mA  |        |
| 0 mA                         | -0.000200 mA | 0.000005 mA  | 0.000200 mA  | 0.0000091 mA |        |

Model B2912A Serial HERE SN  
Options Tested

Test Date 12 Dec 2019  
Condition As Received

## CH1 MIDD CURR MEAS AND OUTP ACCY (cont.)

| TEST COND.                   | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|------------------------------|--------------|--------------|--------------|--------------|--------|
| 0.5 mA                       | 0.499700 mA  | 0.500072 mA  | 0.500300 mA  | 0.000030 mA  |        |
| 1.05 mA                      | 1.049590 mA  | 1.050113 mA  | 1.050410 mA  | 0.000043 mA  |        |
| Current Measure Range 10 mA  |              |              |              |              |        |
| -10.5 mA                     | -10.50460 mA | -10.50060 mA | -10.49540 mA | 0.00043 mA   |        |
| -5 mA                        | -5.00350 mA  | -5.00033 mA  | -4.99650 mA  | 0.00028 mA   |        |
| 0 mA                         | -0.00250 mA  | 0.00008 mA   | 0.00250 mA   | 0.000095 mA  |        |
| 5 mA                         | 4.99650 mA   | 5.00070 mA   | 5.00350 mA   | 0.00028 mA   |        |
| 10.5 mA                      | 10.49540 mA  | 10.50086 mA  | 10.50460 mA  | 0.00043 mA   |        |
| Current Measure Range 100 mA |              |              |              |              |        |
| -105 mA                      | -105.0410 mA | -104.9976 mA | -104.9590 mA | 0.0061 mA    |        |
| -50 mA                       | -50.0300 mA  | -49.9986 mA  | -49.9700 mA  | 0.0037 mA    |        |
| 0 mA                         | -0.0200 mA   | -0.0001 mA   | 0.0200 mA    | 0.00094 mA   |        |
| 50 mA                        | 49.9700 mA   | 50.0030 mA   | 50.0300 mA   | 0.0038 mA    |        |
| 105 mA                       | 104.9590 mA  | 105.0030 mA  | 105.0410 mA  | 0.0061 mA    |        |
| Current Measure Range 1 A    |              |              |              |              |        |
| -1.05 A                      | -1.051815 A  | -1.049989 A  | -1.048185 A  | 0.00016 A    |        |
| -0.5 A                       | -0.501650 A  | -0.499997 A  | -0.498350 A  | 0.000082 A   |        |
| 0 A                          | -0.001500 A  | 0.000010 A   | 0.001500 A   | 0.000019 A   |        |
| 0.5 A                        | 0.498350 A   | 0.500028 A   | 0.501650 A   | 0.000082 A   |        |
| 1.05 A                       | 1.048185 A   | 1.050058 A   | 1.051815 A   | 0.00016 A    |        |
| Current Source Range 100 uA  |              |              |              |              |        |
| -105 uA                      | -105.0460 uA | -104.9864 uA | -104.9540 uA | 0.0047 uA    |        |
| -50 uA                       | -50.0350 uA  | -49.9938 uA  | -49.9650 uA  | 0.0032 uA    |        |
| 0 uA                         | -0.0250 uA   | -0.0001 uA   | 0.0250 uA    | 0.0013 uA    |        |
| 50 uA                        | 49.9650 uA   | 49.9902 uA   | 50.0350 uA   | 0.0032 uA    |        |
| 105 uA                       | 104.9540 uA  | 104.9833 uA  | 105.0460 uA  | 0.0047 uA    |        |
| Current Source Range 1 mA    |              |              |              |              |        |
| -1.05 mA                     | -1.050410 mA | -1.049935 mA | -1.049590 mA | 0.000043 mA  |        |
| -0.5 mA                      | -0.500300 mA | -0.499970 mA | -0.499700 mA | 0.000030 mA  |        |
| 0 mA                         | -0.000200 mA | -0.000005 mA | 0.000200 mA  | 0.0000098 mA |        |
| 0.5 mA                       | 0.499700 mA  | 0.499928 mA  | 0.500300 mA  | 0.000030 mA  |        |
| 1.05 mA                      | 1.049590 mA  | 1.049887 mA  | 1.050410 mA  | 0.000043 mA  |        |
| Current Source Range 10 mA   |              |              |              |              |        |
| -10.5 mA                     | -10.50460 mA | -10.49940 mA | -10.49540 mA | 0.00043 mA   |        |
| -5 mA                        | -5.00350 mA  | -4.99967 mA  | -4.99650 mA  | 0.00028 mA   |        |
| 0 mA                         | -0.00250 mA  | -0.00008 mA  | 0.00250 mA   | 0.00010 mA   |        |
| 5 mA                         | 4.99650 mA   | 4.99930 mA   | 5.00350 mA   | 0.00028 mA   |        |
| 10.5 mA                      | 10.49540 mA  | 10.49914 mA  | 10.50460 mA  | 0.00043 mA   |        |
| Current Source Range 100 mA  |              |              |              |              |        |
| -105 mA                      | -105.0410 mA | -105.0030 mA | -104.9590 mA | 0.0061 mA    |        |
| -50 mA                       | -50.0300 mA  | -50.0016 mA  | -49.9700 mA  | 0.0037 mA    |        |
| 0 mA                         | -0.0200 mA   | 0.0000 mA    | 0.0200 mA    | 0.0011 mA    |        |
| 50 mA                        | 49.9700 mA   | 49.9970 mA   | 50.0300 mA   | 0.0038 mA    |        |
| 105 mA                       | 104.9590 mA  | 104.9971 mA  | 105.0410 mA  | 0.0061 mA    |        |



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## CH1 MIDD CURR MEAS AND OUTP ACCY (cont.)

| TEST COND.               | MINIMUM     | MEASURED    | MAXIMUM     | UNCERT.    | Status |
|--------------------------|-------------|-------------|-------------|------------|--------|
| Current Source Range 1 A |             |             |             |            |        |
| -1.05 A                  | -1.051815 A | -1.050010 A | -1.048185 A | 0.00016 A  |        |
| -0.5 A                   | -0.501650 A | -0.500011 A | -0.498350 A | 0.000082 A |        |
| 0 A                      | -0.001500 A | -0.000010 A | 0.001500 A  | 0.000018 A |        |
| 0.5 A                    | 0.498350 A  | 0.499970 A  | 0.501650 A  | 0.000082 A |        |
| 1.05 A                   | 1.048185 A  | 1.049933 A  | 1.051815 A  | 0.00016 A  |        |

## CH1 HIGH CURR MEAS AND OUTP ACCY

**Passed**

| TEST COND.                  | MINIMUM     | MEASURED    | MAXIMUM     | UNCERT.   | Status |
|-----------------------------|-------------|-------------|-------------|-----------|--------|
| Current Measure Range 1.5 A |             |             |             |           |        |
| -1.515 A                    | -1.519258 A | -1.514896 A | -1.510743 A | 0.00037 A |        |
| -0.75 A                     | -0.753875 A | -0.749966 A | -0.746125 A | 0.00033 A |        |
| 0 A                         | -0.003500 A | 0.000027 A  | 0.003500 A  | 0.00032 A |        |
| 0.75 A                      | 0.746125 A  | 0.750071 A  | 0.753875 A  | 0.00033 A |        |
| 1.515 A                     | 1.510743 A  | 1.514910 A  | 1.519258 A  | 0.00037 A |        |
| Current Measure Range 3 A   |             |             |             |           |        |
| -3.03 A                     | -3.04912 A  | -3.02991 A  | -3.01088 A  | 0.00050 A |        |
| -1.5 A                      | -1.51300 A  | -1.50011 A  | -1.48700 A  | 0.00038 A |        |
| 0 A                         | -0.00700 A  | 0.00002 A   | 0.00700 A   | 0.00032 A |        |
| 1.5 A                       | 1.48700 A   | 1.50022 A   | 1.51300 A   | 0.00038 A |        |
| 3.03 A                      | 3.01088 A   | 3.03014 A   | 3.04912 A   | 0.00050 A |        |
| Current Measure Range 10 A  |             |             |             |           |        |
| -10.5 A                     | -10.56700 A | -10.50166 A | -10.43300 A | 0.0069 A  |        |
| -5 A                        | -5.04500 A  | -5.00327 A  | -4.95500 A  | 0.0087 A  |        |
| 0 A                         | -0.02500 A  | 0.00013 A   | 0.02500 A   | 0.0016 A  |        |
| 5 A                         | 4.95500 A   | 5.00076 A   | 5.04500 A   | 0.0087 A  |        |
| 10.5 A                      | 10.43300 A  | 10.50646 A  | 10.56700 A  | 0.0069 A  |        |
| Current Source Range 1.5 A  |             |             |             |           |        |
| -1.515 A                    | -1.519258 A | -1.515104 A | -1.510743 A | 0.00038 A |        |
| -0.75 A                     | -0.753875 A | -0.750035 A | -0.746125 A | 0.00033 A |        |
| 0 A                         | -0.003500 A | -0.000027 A | 0.003500 A  | 0.00032 A |        |
| 0.75 A                      | 0.746125 A  | 0.749929 A  | 0.753875 A  | 0.00033 A |        |
| 1.515 A                     | 1.510743 A  | 1.515090 A  | 1.519258 A  | 0.00038 A |        |
| Current Source Range 3 A    |             |             |             |           |        |
| -3.03 A                     | -3.04912 A  | -3.03009 A  | -3.01088 A  | 0.00052 A |        |
| -1.5 A                      | -1.51300 A  | -1.49989 A  | -1.48700 A  | 0.00038 A |        |
| 0 A                         | -0.00700 A  | -0.00002 A  | 0.00700 A   | 0.00032 A |        |
| 1.5 A                       | 1.48700 A   | 1.49978 A   | 1.51300 A   | 0.00038 A |        |
| 3.03 A                      | 3.01088 A   | 3.02986 A   | 3.04912 A   | 0.00052 A |        |
| Current Source Range 10 A   |             |             |             |           |        |
| -10.5 A                     | -10.56700 A | -10.49860 A | -10.43300 A | 0.0060 A  |        |
| -5 A                        | -5.04500 A  | -4.99697 A  | -4.95500 A  | 0.0085 A  |        |

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## CH1 HIGH CURR MEAS AND OUTP ACCY (cont.)

| TEST COND. | MINIMUM    | MEASURED   | MAXIMUM    | UNCERT.  | Status |
|------------|------------|------------|------------|----------|--------|
| 0 A        | -0.02500 A | -0.00006 A | 0.02500 A  | 0.0016 A |        |
| 5 A        | 4.95500 A  | 4.99933 A  | 5.04500 A  | 0.0085 A |        |
| 10.5 A     | 10.43300 A | 10.49387 A | 10.56700 A | 0.0060 A |        |

## CH2 VOLT MEAS AND OUTP ACCY

**Passed**

| TEST CONDITIONS             | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.     | Status |
|-----------------------------|--------------|--------------|--------------|-------------|--------|
| Voltage Measure Range 0.2 V |              |              |              |             |        |
| -0.21 V                     | -0.2102565 V | -0.2099840 V | -0.2097435 V | 0.000014 V  |        |
| -0.1 V                      | -0.1002400 V | -0.0999872 V | -0.0997600 V | 0.000014 V  |        |
| 0 V                         | -0.0002250 V | 0.0000140 V  | 0.0002250 V  | 0.0000032 V |        |
| 0.1 V                       | 0.0997600 V  | 0.1000157 V  | 0.1002400 V  | 0.000014 V  |        |
| 0.21 V                      | 0.2097435 V  | 0.2100271 V  | 0.2102565 V  | 0.000014 V  |        |
| Voltage Measure Range 2 V   |              |              |              |             |        |
| -2.1 V                      | -2.100770 V  | -2.099957 V  | -2.099230 V  | 0.000064 V  |        |
| -1 V                        | -1.000550 V  | -0.999994 V  | -0.999450 V  | 0.000061 V  |        |
| 0 V                         | -0.000350 V  | 0.000011 V   | 0.000350 V   | 0.0000033 V |        |
| 1 V                         | 0.999450 V   | 1.000021 V   | 1.000550 V   | 0.000061 V  |        |
| 2.1 V                       | 2.099230 V   | 2.100124 V   | 2.100770 V   | 0.000064 V  |        |
| Voltage Measure Range 20 V  |              |              |              |             |        |
| -21 V                       | -21.00815 V  | -20.99932 V  | -20.99185 V  | 0.00061 V   |        |
| -10 V                       | -10.00650 V  | -9.99995 V   | -9.99350 V   | 0.00056 V   |        |
| 0 V                         | -0.00500 V   | 0.00000 V    | 0.00500 V    | 0.000073 V  |        |
| 10 V                        | 9.99350 V    | 10.00004 V   | 10.00650 V   | 0.00056 V   |        |
| 21 V                        | 20.99185 V   | 21.00130 V   | 21.00815 V   | 0.00061 V   |        |
| Voltage Measure Range 200 V |              |              |              |             |        |
| -210 V                      | -210.0815 V  | -209.9901 V  | -209.9185 V  | 0.011 V     |        |
| -100 V                      | -100.0650 V  | -99.9995 V   | -99.9350 V   | 0.011 V     |        |
| 0 V                         | -0.0500 V    | -0.0010 V    | 0.0500 V     | 0.00050 V   |        |
| 100 V                       | 99.9350 V    | 99.9989 V    | 100.0650 V   | 0.011 V     |        |
| 210 V                       | 209.9185 V   | 210.0104 V   | 210.0815 V   | 0.011 V     |        |
| Voltage Source Range 0.2 V  |              |              |              |             |        |
| -0.21 V                     | -0.2102565 V | -0.2100159 V | -0.2097435 V | 0.000014 V  |        |
| -0.1 V                      | -0.1002400 V | -0.1000127 V | -0.0997600 V | 0.000014 V  |        |
| 0 V                         | -0.0002250 V | -0.0000139 V | 0.0002250 V  | 0.0000033 V |        |
| 0.1 V                       | 0.0997600 V  | 0.0999842 V  | 0.1002400 V  | 0.000014 V  |        |
| 0.21 V                      | 0.2097435 V  | 0.2099731 V  | 0.2102565 V  | 0.000014 V  |        |
| Voltage Source Range 2 V    |              |              |              |             |        |
| -2.1 V                      | -2.100770 V  | -2.100043 V  | -2.099230 V  | 0.000064 V  |        |
| -1 V                        | -1.000550 V  | -1.000006 V  | -0.999450 V  | 0.000061 V  |        |
| 0 V                         | -0.000350 V  | -0.000012 V  | 0.000350 V   | 0.0000062 V |        |
| 1 V                         | 0.999450 V   | 0.999979 V   | 1.000550 V   | 0.000061 V  |        |
| 2.1 V                       | 2.099230 V   | 2.099876 V   | 2.100770 V   | 0.000064 V  |        |

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## CH2 VOLT MEAS AND OUTP ACCY (cont.)

| TEST CONDITIONS            | MINIMUM     | MEASURED    | MAXIMUM     | UNCERT.   | Status |
|----------------------------|-------------|-------------|-------------|-----------|--------|
| Voltage Source Range 20 V  |             |             |             |           |        |
| -21 V                      | -21.00815 V | -21.00068 V | -20.99185 V | 0.00061 V |        |
| -10 V                      | -10.00650 V | -10.00005 V | -9.99350 V  | 0.00056 V |        |
| 0 V                        | -0.00500 V  | 0.00000 V   | 0.00500 V   | 0.00011 V |        |
| 10 V                       | 9.99350 V   | 9.99996 V   | 10.00650 V  | 0.00056 V |        |
| 21 V                       | 20.99185 V  | 20.99870 V  | 21.00815 V  | 0.00061 V |        |
| Voltage Source Range 200 V |             |             |             |           |        |
| -210 V                     | -210.0815 V | -210.0099 V | -209.9185 V | 0.011 V   |        |
| -100 V                     | -100.0650 V | -100.0005 V | -99.9350 V  | 0.011 V   |        |
| 0 V                        | -0.0500 V   | 0.0010 V    | 0.0500 V    | 0.00088 V |        |
| 100 V                      | 99.9350 V   | 100.0011 V  | 100.0650 V  | 0.011 V   |        |
| 210 V                      | 209.9185 V  | 209.9896 V  | 210.0815 V  | 0.011 V   |        |

## CH2 LOW CURR MEAS AND OUTP ACCY

**Passed**

| TEST COND.                   | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|------------------------------|--------------|--------------|--------------|--------------|--------|
| Current Measure Range 10 nA  |              |              |              |              |        |
| -10.5 nA                     | -10.56050 nA | -10.48804 nA | -10.43950 nA | 0.0052 nA    |        |
| -5 nA                        | -5.05500 nA  | -4.99513 nA  | -4.94500 nA  | 0.0025 nA    |        |
| 0 nA                         | -0.05000 nA  | -0.00130 nA  | 0.05000 nA   | 0.00022 nA   |        |
| 5 nA                         | 4.94500 nA   | 4.99241 nA   | 5.05500 nA   | 0.0025 nA    |        |
| 10.5 nA                      | 10.43950 nA  | 10.48478 nA  | 10.56050 nA  | 0.0052 nA    |        |
| Current Measure Range 100 nA |              |              |              |              |        |
| -105 nA                      | -105.1630 nA | -105.0004 nA | -104.8370 nA | 0.0074 nA    |        |
| -50 nA                       | -50.1300 nA  | -50.0036 nA  | -49.8700 nA  | 0.0037 nA    |        |
| 0 nA                         | -0.1000 nA   | -0.0075 nA   | 0.1000 nA    | 0.00078 nA   |        |
| 50 nA                        | 49.8700 nA   | 49.9927 nA   | 50.1300 nA   | 0.0037 nA    |        |
| 105 nA                       | 104.8370 nA  | 104.9900 nA  | 105.1630 nA  | 0.0074 nA    |        |
| Current Measure Range 1 uA   |              |              |              |              |        |
| -1.05 uA                     | -1.050763 uA | -1.050103 uA | -1.049238 uA | 0.000062 uA  |        |
| -0.5 uA                      | -0.500625 uA | -0.500061 uA | -0.499375 uA | 0.000032 uA  |        |
| 0 uA                         | -0.000500 uA | 0.000003 uA  | 0.000500 uA  | 0.0000051 uA |        |
| 0.5 uA                       | 0.499375 uA  | 0.500025 uA  | 0.500625 uA  | 0.000032 uA  |        |
| 1.05 uA                      | 1.049238 uA  | 1.050087 uA  | 1.050763 uA  | 0.000062 uA  |        |
| Current Measure Range 10 uA  |              |              |              |              |        |
| -10.5 uA                     | -10.50413 uA | -10.50092 uA | -10.49588 uA | 0.00039 uA   |        |
| -5 uA                        | -5.00275 uA  | -5.00061 uA  | -4.99725 uA  | 0.00020 uA   |        |
| 0 uA                         | -0.00150 uA  | 0.00001 uA   | 0.00150 uA   | 0.000056 uA  |        |
| 5 uA                         | 4.99725 uA   | 5.00030 uA   | 5.00275 uA   | 0.00020 uA   |        |
| 10.5 uA                      | 10.49588 uA  | 10.50085 uA  | 10.50413 uA  | 0.00039 uA   |        |
| Current Source Range 10 nA   |              |              |              |              |        |
| -10.5 nA                     | -10.56050 nA | -10.51195 nA | -10.43950 nA | 0.0052 nA    |        |
| -5 nA                        | -5.05500 nA  | -5.00488 nA  | -4.94500 nA  | 0.0025 nA    |        |

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## CH2 LOW CURR MEAS AND OUTP ACCY (cont.)

| TEST COND.                  | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|-----------------------------|--------------|--------------|--------------|--------------|--------|
| 0 nA                        | -0.05000 nA  | 0.00129 nA   | 0.05000 nA   | 0.00022 nA   |        |
| 5 nA                        | 4.94500 nA   | 5.00759 nA   | 5.05500 nA   | 0.0025 nA    |        |
| 10.5 nA                     | 10.43950 nA  | 10.51522 nA  | 10.56050 nA  | 0.0052 nA    |        |
| Current Source Range 100 nA |              |              |              |              |        |
| -105 nA                     | -105.1630 nA | -104.9996 nA | -104.8370 nA | 0.0074 nA    |        |
| -50 nA                      | -50.1300 nA  | -49.9965 nA  | -49.8700 nA  | 0.0037 nA    |        |
| 0 nA                        | -0.1000 nA   | 0.0074 nA    | 0.1000 nA    | 0.00078 nA   |        |
| 50 nA                       | 49.8700 nA   | 50.0072 nA   | 50.1300 nA   | 0.0037 nA    |        |
| 105 nA                      | 104.8370 nA  | 105.0099 nA  | 105.1630 nA  | 0.0074 nA    |        |
| Current Source Range 1 uA   |              |              |              |              |        |
| -1.05 uA                    | -1.050763 uA | -1.049897 uA | -1.049238 uA | 0.000062 uA  |        |
| -0.5 uA                     | -0.500625 uA | -0.499939 uA | -0.499375 uA | 0.000032 uA  |        |
| 0 uA                        | -0.000500 uA | -0.000003 uA | 0.000500 uA  | 0.0000051 uA |        |
| 0.5 uA                      | 0.499375 uA  | 0.499975 uA  | 0.500625 uA  | 0.000032 uA  |        |
| 1.05 uA                     | 1.049238 uA  | 1.049913 uA  | 1.050763 uA  | 0.000062 uA  |        |
| Current Source Range 10 uA  |              |              |              |              |        |
| -10.5 uA                    | -10.50413 uA | -10.49908 uA | -10.49588 uA | 0.00038 uA   |        |
| -5 uA                       | -5.00275 uA  | -4.99939 uA  | -4.99725 uA  | 0.00020 uA   |        |
| 0 uA                        | -0.00150 uA  | -0.00001 uA  | 0.00150 uA   | 0.000081 uA  |        |
| 5 uA                        | 4.99725 uA   | 4.99970 uA   | 5.00275 uA   | 0.00020 uA   |        |
| 10.5 uA                     | 10.49588 uA  | 10.49915 uA  | 10.50413 uA  | 0.00038 uA   |        |

## CH2 HIGH CAP CURR ACCY

**Passed**

| TEST COND.                 | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|----------------------------|--------------|--------------|--------------|--------------|--------|
| Current Measure Range 1 uA |              |              |              |              |        |
| -1 uA                      | -1.000750 uA | -1.000098 uA | -0.999250 uA | 0.000058 uA  |        |
| -0.1 uA                    | -0.100525 uA | -0.100039 uA | -0.099475 uA | 0.000013 uA  |        |
| 0.1 uA                     | 0.099475 uA  | 0.099968 uA  | 0.100525 uA  | 0.000012 uA  |        |
| 1 uA                       | 0.999250 uA  | 1.000057 uA  | 1.000750 uA  | 0.000059 uA  |        |
| Current Source Range 1 uA  |              |              |              |              |        |
| -1 uA                      | -1.000750 uA | -0.999864 uA | -0.999250 uA | 0.000063 uA  |        |
| -0.1 uA                    | -0.100525 uA | -0.100005 uA | -0.099475 uA | 0.000010 uA  |        |
| 0.1 uA                     | 0.099475 uA  | 0.099973 uA  | 0.100525 uA  | 0.0000096 uA |        |
| 1 uA                       | 0.999250 uA  | 0.999865 uA  | 1.000750 uA  | 0.000059 uA  |        |

## CH2 MIDD CURR MEAS AND OUTP ACCY

**Undetermined**

| TEST COND.                   | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.   | Status |
|------------------------------|--------------|--------------|--------------|-----------|--------|
| Current Measure Range 100 uA |              |              |              |           |        |
| -105 uA                      | -105.0460 uA | -105.0093 uA | -104.9540 uA | 0.0047 uA |        |
| -50 uA                       | -50.0350 uA  | -50.0049 uA  | -49.9650 uA  | 0.0032 uA |        |
| 0 uA                         | -0.0250 uA   | -0.0022 uA   | 0.0250 uA    | 0.0013 uA |        |

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## CH2 MIDD CURR MEAS AND OUTP ACCY (cont.)

| TEST COND.                   | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|------------------------------|--------------|--------------|--------------|--------------|--------|
| 50 uA                        | 49.9650 uA   | 50.0033 uA   | 50.0350 uA   | 0.0032 uA    |        |
| 105 uA                       | 104.9540 uA  | 105.0081 uA  | 105.0460 uA  | 0.0047 uA    |        |
| Current Measure Range 1 mA   |              |              |              |              |        |
| -1.05 mA                     | -1.050410 mA | -1.050374 mA | -1.049590 mA | 0.000043 mA  | U      |
| -0.5 mA                      | -0.500300 mA | -0.500185 mA | -0.499700 mA | 0.000030 mA  |        |
| 0 mA                         | -0.000200 mA | -0.000020 mA | 0.000200 mA  | 0.0000091 mA |        |
| 0.5 mA                       | 0.499700 mA  | 0.500176 mA  | 0.500300 mA  | 0.000030 mA  |        |
| 1.05 mA                      | 1.049590 mA  | 1.050390 mA  | 1.050410 mA  | 0.000043 mA  | U      |
| Current Measure Range 10 mA  |              |              |              |              |        |
| -10.5 mA                     | -10.50460 mA | -10.50353 mA | -10.49540 mA | 0.00043 mA   |        |
| -5 mA                        | -5.00350 mA  | -5.00186 mA  | -4.99650 mA  | 0.00028 mA   |        |
| 0 mA                         | -0.00250 mA  | -0.00019 mA  | 0.00250 mA   | 0.000095 mA  |        |
| 5 mA                         | 4.99650 mA   | 5.00183 mA   | 5.00350 mA   | 0.00028 mA   |        |
| 10.5 mA                      | 10.49540 mA  | 10.50390 mA  | 10.50460 mA  | 0.00043 mA   |        |
| Current Measure Range 100 mA |              |              |              |              |        |
| -105 mA                      | -105.0410 mA | -105.0027 mA | -104.9590 mA | 0.0061 mA    |        |
| -50 mA                       | -50.0300 mA  | -50.0019 mA  | -49.9700 mA  | 0.0037 mA    |        |
| 0 mA                         | -0.0200 mA   | -0.0018 mA   | 0.0200 mA    | 0.00094 mA   |        |
| 50 mA                        | 49.9700 mA   | 50.0012 mA   | 50.0300 mA   | 0.0038 mA    |        |
| 105 mA                       | 104.9590 mA  | 105.0043 mA  | 105.0410 mA  | 0.0061 mA    |        |
| Current Measure Range 1 A    |              |              |              |              |        |
| -1.05 A                      | -1.051815 A  | -1.050016 A  | -1.048185 A  | 0.00016 A    |        |
| -0.5 A                       | -0.501650 A  | -0.500036 A  | -0.498350 A  | 0.000082 A   |        |
| 0 A                          | -0.001500 A  | -0.000023 A  | 0.001500 A   | 0.000019 A   |        |
| 0.5 A                        | 0.498350 A   | 0.500013 A   | 0.501650 A   | 0.000082 A   |        |
| 1.05 A                       | 1.048185 A   | 1.050014 A   | 1.051815 A   | 0.00016 A    |        |
| Current Source Range 100 uA  |              |              |              |              |        |
| -105 uA                      | -105.0460 uA | -104.9907 uA | -104.9540 uA | 0.0047 uA    |        |
| -50 uA                       | -50.0350 uA  | -49.9951 uA  | -49.9650 uA  | 0.0032 uA    |        |
| 0 uA                         | -0.0250 uA   | 0.0022 uA    | 0.0250 uA    | 0.0013 uA    |        |
| 50 uA                        | 49.9650 uA   | 49.9967 uA   | 50.0350 uA   | 0.0032 uA    |        |
| 105 uA                       | 104.9540 uA  | 104.9919 uA  | 105.0460 uA  | 0.0047 uA    |        |
| Current Source Range 1 mA    |              |              |              |              |        |
| -1.05 mA                     | -1.050410 mA | -1.049626 mA | -1.049590 mA | 0.000043 mA  | U      |
| -0.5 mA                      | -0.500300 mA | -0.499815 mA | -0.499700 mA | 0.000030 mA  |        |
| 0 mA                         | -0.000200 mA | 0.000020 mA  | 0.000200 mA  | 0.0000098 mA |        |
| 0.5 mA                       | 0.499700 mA  | 0.499824 mA  | 0.500300 mA  | 0.000030 mA  |        |
| 1.05 mA                      | 1.049590 mA  | 1.049610 mA  | 1.050410 mA  | 0.000043 mA  | U      |
| Current Source Range 10 mA   |              |              |              |              |        |
| -10.5 mA                     | -10.50460 mA | -10.49647 mA | -10.49540 mA | 0.00043 mA   |        |
| -5 mA                        | -5.00350 mA  | -4.99814 mA  | -4.99650 mA  | 0.00028 mA   |        |
| 0 mA                         | -0.00250 mA  | 0.00019 mA   | 0.00250 mA   | 0.00010 mA   |        |
| 5 mA                         | 4.99650 mA   | 4.99817 mA   | 5.00350 mA   | 0.00028 mA   |        |
| 10.5 mA                      | 10.49540 mA  | 10.49610 mA  | 10.50460 mA  | 0.00043 mA   |        |

Model B2912A Serial HERE SN  
Options Tested

Test Date 12 Dec 2019  
Condition As Received

## CH2 MIDD CURR MEAS AND OUTP ACCY (cont.)

| TEST COND.                  | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.    | Status |
|-----------------------------|--------------|--------------|--------------|------------|--------|
| Current Source Range 100 mA |              |              |              |            |        |
| -105 mA                     | -105.0410 mA | -104.9972 mA | -104.9590 mA | 0.0061 mA  |        |
| -50 mA                      | -50.0300 mA  | -49.9983 mA  | -49.9700 mA  | 0.0037 mA  |        |
| 0 mA                        | -0.0200 mA   | 0.0017 mA    | 0.0200 mA    | 0.0011 mA  |        |
| 50 mA                       | 49.9700 mA   | 49.9988 mA   | 50.0300 mA   | 0.0038 mA  |        |
| 105 mA                      | 104.9590 mA  | 104.9957 mA  | 105.0410 mA  | 0.0061 mA  |        |
| Current Source Range 1 A    |              |              |              |            |        |
| -1.05 A                     | -1.051815 A  | -1.049979 A  | -1.048185 A  | 0.00016 A  |        |
| -0.5 A                      | -0.501650 A  | -0.499973 A  | -0.498350 A  | 0.000082 A |        |
| 0 A                         | -0.001500 A  | 0.000023 A   | 0.001500 A   | 0.000018 A |        |
| 0.5 A                       | 0.498350 A   | 0.499986 A   | 0.501650 A   | 0.000082 A |        |
| 1.05 A                      | 1.048185 A   | 1.049983 A   | 1.051815 A   | 0.00016 A  |        |

## CH2 HIGH CURR MEAS AND OUTP ACCY

**Passed**

| TEST COND.                  | MINIMUM     | MEASURED    | MAXIMUM     | UNCERT.   | Status |
|-----------------------------|-------------|-------------|-------------|-----------|--------|
| Current Measure Range 1.5 A |             |             |             |           |        |
| -1.515 A                    | -1.519258 A | -1.514943 A | -1.510743 A | 0.00037 A |        |
| -0.75 A                     | -0.753875 A | -0.750048 A | -0.746125 A | 0.00033 A |        |
| 0 A                         | -0.003500 A | -0.000029 A | 0.003500 A  | 0.00032 A |        |
| 0.75 A                      | 0.746125 A  | 0.750004 A  | 0.753875 A  | 0.00033 A |        |
| 1.515 A                     | 1.510743 A  | 1.514896 A  | 1.519258 A  | 0.00037 A |        |
| Current Measure Range 3 A   |             |             |             |           |        |
| -3.03 A                     | -3.04912 A  | -3.02970 A  | -3.01088 A  | 0.00050 A |        |
| -1.5 A                      | -1.51300 A  | -1.50018 A  | -1.48700 A  | 0.00038 A |        |
| 0 A                         | -0.00700 A  | -0.00010 A  | 0.00700 A   | 0.00032 A |        |
| 1.5 A                       | 1.48700 A   | 1.49999 A   | 1.51300 A   | 0.00038 A |        |
| 3.03 A                      | 3.01088 A   | 3.02954 A   | 3.04912 A   | 0.00050 A |        |
| Current Measure Range 10 A  |             |             |             |           |        |
| -10.5 A                     | -10.56700 A | -10.50072 A | -10.43300 A | 0.0069 A  |        |
| -5 A                        | -5.04500 A  | -5.00134 A  | -4.95500 A  | 0.0087 A  |        |
| 0 A                         | -0.02500 A  | -0.00138 A  | 0.02500 A   | 0.0016 A  |        |
| 5 A                         | 4.95500 A   | 5.00389 A   | 5.04500 A   | 0.0087 A  |        |
| 10.5 A                      | 10.43300 A  | 10.50544 A  | 10.56700 A  | 0.0069 A  |        |
| Current Source Range 1.5 A  |             |             |             |           |        |
| -1.515 A                    | -1.519258 A | -1.515049 A | -1.510743 A | 0.00038 A |        |
| -0.75 A                     | -0.753875 A | -0.749952 A | -0.746125 A | 0.00033 A |        |
| 0 A                         | -0.003500 A | 0.000029 A  | 0.003500 A  | 0.00032 A |        |
| 0.75 A                      | 0.746125 A  | 0.749997 A  | 0.753875 A  | 0.00033 A |        |
| 1.515 A                     | 1.510743 A  | 1.515103 A  | 1.519258 A  | 0.00038 A |        |
| Current Source Range 3 A    |             |             |             |           |        |
| -3.03 A                     | -3.04912 A  | -3.03030 A  | -3.01088 A  | 0.00052 A |        |
| -1.5 A                      | -1.51300 A  | -1.49982 A  | -1.48700 A  | 0.00038 A |        |

Model B2912A Serial HERE SN  
Options Tested

Test Date 12 Dec 2019  
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## CH2 HIGH CURR MEAS AND OUTP ACCY (cont.)

| TEST COND.                | MINIMUM     | MEASURED    | MAXIMUM     | UNCERT.   | Status |
|---------------------------|-------------|-------------|-------------|-----------|--------|
| 0 A                       | -0.00700 A  | 0.00010 A   | 0.00700 A   | 0.00032 A |        |
| 1.5 A                     | 1.48700 A   | 1.50001 A   | 1.51300 A   | 0.00038 A |        |
| 3.03 A                    | 3.01088 A   | 3.03046 A   | 3.04912 A   | 0.00052 A |        |
| Current Source Range 10 A |             |             |             |           |        |
| -10.5 A                   | -10.56700 A | -10.49919 A | -10.43300 A | 0.0060 A  |        |
| -5 A                      | -5.04500 A  | -4.99874 A  | -4.95500 A  | 0.0085 A  |        |
| 0 A                       | -0.02500 A  | 0.00144 A   | 0.02500 A   | 0.0016 A  |        |
| 5 A                       | 4.95500 A   | 4.99638 A   | 5.04500 A   | 0.0085 A  |        |
| 10.5 A                    | 10.43300 A  | 10.49446 A  | 10.56700 A  | 0.0060 A  |        |

## SELF CAL AND TEST

As Expected

| TEST CONDITIONS  | RESULT | Status |
|------------------|--------|--------|
| Self Calibration | DONE   |        |
| Self Test        | DONE   |        |

## CH1 CURRENT CMR

As Expected

| TEST CONDITIONS | RESULT | Status |
|-----------------|--------|--------|
| 200 V Range     | DONE   |        |

NOTE:

This test is a function check, and result status reported here is for information only.

## CH1 VOLTAGE CMR

As Expected

| TEST CONDITIONS | RESULT | Status |
|-----------------|--------|--------|
| 100 uA Range    | DONE   |        |

NOTE:

This test is a function check, and result status reported here is for information only.

## CH2 CURRENT CMR

As Expected

| TEST CONDITIONS | RESULT | Status |
|-----------------|--------|--------|
| 200 V Range     | DONE   |        |

Model B2912A    Serial HERE SN  
**Options Tested**

Test Date 12 Dec 2019  
Condition As Received

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## CH2 CURRENT CMR (cont.)

| <u>TEST CONDITIONS</u> | <u>RESULT</u> | <u>Status</u> |
|------------------------|---------------|---------------|
|------------------------|---------------|---------------|

NOTE:

This test is a function check, and result status  
reported  
here is for information only.

## CH2 VOLTAGE CMR

**As Expected**

| <u>TEST CONDITIONS</u> | <u>RESULT</u> | <u>Status</u> |
|------------------------|---------------|---------------|
| 100 uA Range           | DONE          |               |

NOTE:

This test is a function check, and result status  
reported  
here is for information only.



## CH1 VOLT MEAS AND OUTP ACCY

**Passed**

| TEST CONDITIONS             | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.     | Status |
|-----------------------------|--------------|--------------|--------------|-------------|--------|
| Voltage Measure Range 0.2 V |              |              |              |             |        |
| -0.21 V                     | -0.2102565 V | -0.2099896 V | -0.2097435 V | 0.000014 V  |        |
| -0.1 V                      | -0.1002400 V | -0.0999954 V | -0.0997600 V | 0.000014 V  |        |
| 0 V                         | -0.0002250 V | 0.0000026 V  | 0.0002250 V  | 0.0000032 V |        |
| 0.1 V                       | 0.0997600 V  | 0.1000014 V  | 0.1002400 V  | 0.000014 V  |        |
| 0.21 V                      | 0.2097435 V  | 0.2100064 V  | 0.2102565 V  | 0.000014 V  |        |
| Voltage Measure Range 2 V   |              |              |              |             |        |
| -2.1 V                      | -2.100770 V  | -2.099929 V  | -2.099230 V  | 0.000064 V  |        |
| -1 V                        | -1.000550 V  | -0.999992 V  | -0.999450 V  | 0.000061 V  |        |
| 0 V                         | -0.000350 V  | -0.000012 V  | 0.000350 V   | 0.0000033 V |        |
| 1 V                         | 0.999450 V   | 0.999971 V   | 1.000550 V   | 0.000061 V  |        |
| 2.1 V                       | 2.099230 V   | 2.100045 V   | 2.100770 V   | 0.000064 V  |        |
| Voltage Measure Range 20 V  |              |              |              |             |        |
| -21 V                       | -21.00815 V  | -20.99905 V  | -20.99185 V  | 0.00061 V   |        |
| -10 V                       | -10.00650 V  | -9.99987 V   | -9.99350 V   | 0.00056 V   |        |
| 0 V                         | -0.00500 V   | -0.00009 V   | 0.00500 V    | 0.000073 V  |        |
| 10 V                        | 9.99350 V    | 9.99961 V    | 10.00650 V   | 0.00056 V   |        |
| 21 V                        | 20.99185 V   | 21.00064 V   | 21.00815 V   | 0.00061 V   |        |
| Voltage Measure Range 200 V |              |              |              |             |        |
| -210 V                      | -210.0815 V  | -209.9880 V  | -209.9185 V  | 0.011 V     |        |
| -100 V                      | -100.0650 V  | -99.9981 V   | -99.9350 V   | 0.011 V     |        |
| 0 V                         | -0.0500 V    | -0.0014 V    | 0.0500 V     | 0.00050 V   |        |
| 100 V                       | 99.9350 V    | 99.9961 V    | 100.0650 V   | 0.011 V     |        |
| 210 V                       | 209.9185 V   | 210.0039 V   | 210.0815 V   | 0.011 V     |        |
| Voltage Source Range 0.2 V  |              |              |              |             |        |
| -0.21 V                     | -0.2102565 V | -0.2100108 V | -0.2097435 V | 0.000014 V  |        |
| -0.1 V                      | -0.1002400 V | -0.1000042 V | -0.0997600 V | 0.000014 V  |        |
| 0 V                         | -0.0002250 V | -0.0000031 V | 0.0002250 V  | 0.0000033 V |        |
| 0.1 V                       | 0.0997600 V  | 0.0999988 V  | 0.1002400 V  | 0.000014 V  |        |
| 0.21 V                      | 0.2097435 V  | 0.2099932 V  | 0.2102565 V  | 0.000014 V  |        |
| Voltage Source Range 2 V    |              |              |              |             |        |
| -2.1 V                      | -2.100770 V  | -2.100071 V  | -2.099230 V  | 0.000064 V  |        |
| -1 V                        | -1.000550 V  | -1.000008 V  | -0.999450 V  | 0.000061 V  |        |
| 0 V                         | -0.000350 V  | 0.000012 V   | 0.000350 V   | 0.0000062 V |        |
| 1 V                         | 0.999450 V   | 1.000029 V   | 1.000550 V   | 0.000061 V  |        |
| 2.1 V                       | 2.099230 V   | 2.099955 V   | 2.100770 V   | 0.000064 V  |        |
| Voltage Source Range 20 V   |              |              |              |             |        |
| -21 V                       | -21.00815 V  | -21.00095 V  | -20.99185 V  | 0.00061 V   |        |
| -10 V                       | -10.00650 V  | -10.00013 V  | -9.99350 V   | 0.00056 V   |        |
| 0 V                         | -0.00500 V   | 0.00009 V    | 0.00500 V    | 0.00011 V   |        |
| 10 V                        | 9.99350 V    | 10.00039 V   | 10.00650 V   | 0.00056 V   |        |
| 21 V                        | 20.99185 V   | 20.99936 V   | 21.00815 V   | 0.00061 V   |        |

Model B2912A Serial HERE SN  
Options Tested

Test Date 13 Dec 2019  
Condition As Completed

## CH1 VOLT MEAS AND OUTP ACCY (cont.)

| TEST CONDITIONS            | MINIMUM     | MEASURED    | MAXIMUM     | UNCERT.   | Status |
|----------------------------|-------------|-------------|-------------|-----------|--------|
| Voltage Source Range 200 V |             |             |             |           |        |
| -210 V                     | -210.0815 V | -210.0120 V | -209.9185 V | 0.011 V   |        |
| -100 V                     | -100.0650 V | -100.0019 V | -99.9350 V  | 0.011 V   |        |
| 0 V                        | -0.0500 V   | 0.0014 V    | 0.0500 V    | 0.00088 V |        |
| 100 V                      | 99.9350 V   | 100.0039 V  | 100.0650 V  | 0.011 V   |        |
| 210 V                      | 209.9185 V  | 209.9961 V  | 210.0815 V  | 0.011 V   |        |

## CH1 LOW CURR MEAS AND OUTP ACCY

**Passed**

| TEST COND.                   | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|------------------------------|--------------|--------------|--------------|--------------|--------|
| Current Measure Range 10 nA  |              |              |              |              |        |
| -10.5 nA                     | -10.56050 nA | -10.49745 nA | -10.43950 nA | 0.0052 nA    |        |
| -5 nA                        | -5.05500 nA  | -4.99845 nA  | -4.94500 nA  | 0.0025 nA    |        |
| 0 nA                         | -0.05000 nA  | 0.00032 nA   | 0.05000 nA   | 0.00022 nA   |        |
| 5 nA                         | 4.94500 nA   | 4.99942 nA   | 5.05500 nA   | 0.0025 nA    |        |
| 10.5 nA                      | 10.43950 nA  | 10.49863 nA  | 10.56050 nA  | 0.0052 nA    |        |
| Current Measure Range 100 nA |              |              |              |              |        |
| -105 nA                      | -105.1630 nA | -104.9941 nA | -104.8370 nA | 0.0074 nA    |        |
| -50 nA                       | -50.1300 nA  | -49.9954 nA  | -49.8700 nA  | 0.0037 nA    |        |
| 0 nA                         | -0.1000 nA   | 0.0011 nA    | 0.1000 nA    | 0.00078 nA   |        |
| 50 nA                        | 49.8700 nA   | 50.0020 nA   | 50.1300 nA   | 0.0037 nA    |        |
| 105 nA                       | 104.8370 nA  | 105.0039 nA  | 105.1630 nA  | 0.0074 nA    |        |
| Current Measure Range 1 uA   |              |              |              |              |        |
| -1.05 uA                     | -1.050763 uA | -1.049968 uA | -1.049238 uA | 0.000062 uA  |        |
| -0.5 uA                      | -0.500625 uA | -0.499978 uA | -0.499375 uA | 0.000032 uA  |        |
| 0 uA                         | -0.000500 uA | 0.000000 uA  | 0.000500 uA  | 0.0000051 uA |        |
| 0.5 uA                       | 0.499375 uA  | 0.500035 uA  | 0.500625 uA  | 0.000032 uA  |        |
| 1.05 uA                      | 1.049238 uA  | 1.050031 uA  | 1.050763 uA  | 0.000062 uA  |        |
| Current Measure Range 10 uA  |              |              |              |              |        |
| -10.5 uA                     | -10.50413 uA | -10.49957 uA | -10.49588 uA | 0.00039 uA   |        |
| -5 uA                        | -5.00275 uA  | -4.99974 uA  | -4.99725 uA  | 0.00020 uA   |        |
| 0 uA                         | -0.00150 uA  | 0.00005 uA   | 0.00150 uA   | 0.000056 uA  |        |
| 5 uA                         | 4.99725 uA   | 5.00036 uA   | 5.00275 uA   | 0.00020 uA   |        |
| 10.5 uA                      | 10.49588 uA  | 10.50025 uA  | 10.50413 uA  | 0.00039 uA   |        |
| Current Source Range 10 nA   |              |              |              |              |        |
| -10.5 nA                     | -10.56050 nA | -10.50255 nA | -10.43950 nA | 0.0052 nA    |        |
| -5 nA                        | -5.05500 nA  | -5.00155 nA  | -4.94500 nA  | 0.0025 nA    |        |
| 0 nA                         | -0.05000 nA  | -0.00033 nA  | 0.05000 nA   | 0.00022 nA   |        |
| 5 nA                         | 4.94500 nA   | 5.00057 nA   | 5.05500 nA   | 0.0025 nA    |        |
| 10.5 nA                      | 10.43950 nA  | 10.50136 nA  | 10.56050 nA  | 0.0052 nA    |        |
| Current Source Range 100 nA  |              |              |              |              |        |
| -105 nA                      | -105.1630 nA | -105.0059 nA | -104.8370 nA | 0.0074 nA    |        |
| -50 nA                       | -50.1300 nA  | -50.0047 nA  | -49.8700 nA  | 0.0037 nA    |        |

Model B2912A    Serial HERE SN  
Options Tested

Test Date 13 Dec 2019  
Condition As Completed

## CH1 LOW CURR MEAS AND OUTP ACCY (cont.)

| TEST COND. | MINIMUM     | MEASURED    | MAXIMUM     | UNCERT.    | Status |
|------------|-------------|-------------|-------------|------------|--------|
| 0 nA       | -0.1000 nA  | -0.0012 nA  | 0.1000 nA   | 0.00078 nA |        |
| 50 nA      | 49.8700 nA  | 49.9979 nA  | 50.1300 nA  | 0.0037 nA  |        |
| 105 nA     | 104.8370 nA | 104.9960 nA | 105.1630 nA | 0.0074 nA  |        |

### Current Source Range 1 uA

|          |              |              |              |              |  |
|----------|--------------|--------------|--------------|--------------|--|
| -1.05 uA | -1.050763 uA | -1.050032 uA | -1.049238 uA | 0.000062 uA  |  |
| -0.5 uA  | -0.500625 uA | -0.500023 uA | -0.499375 uA | 0.000032 uA  |  |
| 0 uA     | -0.000500 uA | 0.000000 uA  | 0.000500 uA  | 0.0000051 uA |  |
| 0.5 uA   | 0.499375 uA  | 0.499965 uA  | 0.500625 uA  | 0.000032 uA  |  |
| 1.05 uA  | 1.049238 uA  | 1.049969 uA  | 1.050763 uA  | 0.000062 uA  |  |

### Current Source Range 10 uA

|          |              |              |              |             |  |
|----------|--------------|--------------|--------------|-------------|--|
| -10.5 uA | -10.50413 uA | -10.50043 uA | -10.49588 uA | 0.00038 uA  |  |
| -5 uA    | -5.00275 uA  | -5.00026 uA  | -4.99725 uA  | 0.00020 uA  |  |
| 0 uA     | -0.00150 uA  | -0.00005 uA  | 0.00150 uA   | 0.000081 uA |  |
| 5 uA     | 4.99725 uA   | 4.99964 uA   | 5.00275 uA   | 0.00020 uA  |  |
| 10.5 uA  | 10.49588 uA  | 10.49975 uA  | 10.50413 uA  | 0.00038 uA  |  |

## CH1 HIGH CAP CURR ACCY

**Passed**

| TEST COND.                 | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.     | Status |
|----------------------------|--------------|--------------|--------------|-------------|--------|
| Current Measure Range 1 uA |              |              |              |             |        |
| -1 uA                      | -1.000750 uA | -0.999953 uA | -0.999250 uA | 0.000058 uA |        |
| -0.1 uA                    | -0.100525 uA | -0.099953 uA | -0.099475 uA | 0.000013 uA |        |
| 0.1 uA                     | 0.099475 uA  | 0.100045 uA  | 0.100525 uA  | 0.000012 uA |        |
| 1 uA                       | 0.999250 uA  | 1.000072 uA  | 1.000750 uA  | 0.000059 uA |        |

### Current Source Range 1 uA

|         |              |              |              |              |  |
|---------|--------------|--------------|--------------|--------------|--|
| -1 uA   | -1.000750 uA | -0.999862 uA | -0.999250 uA | 0.000063 uA  |  |
| -0.1 uA | -0.100525 uA | -0.099978 uA | -0.099475 uA | 0.000010 uA  |  |
| 0.1 uA  | 0.099475 uA  | 0.100008 uA  | 0.100525 uA  | 0.0000096 uA |  |
| 1 uA    | 0.999250 uA  | 0.999919 uA  | 1.000750 uA  | 0.000059 uA  |  |

## CH1 MIDD CURR MEAS AND OUTP ACCY

**Passed**

| TEST COND.                   | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.   | Status |
|------------------------------|--------------|--------------|--------------|-----------|--------|
| Current Measure Range 100 uA |              |              |              |           |        |
| -105 uA                      | -105.0460 uA | -104.9971 uA | -104.9540 uA | 0.0047 uA |        |
| -50 uA                       | -50.0350 uA  | -49.9974 uA  | -49.9650 uA  | 0.0032 uA |        |
| 0 uA                         | -0.0250 uA   | 0.0012 uA    | 0.0250 uA    | 0.0013 uA |        |
| 50 uA                        | 49.9650 uA   | 50.0034 uA   | 50.0350 uA   | 0.0032 uA |        |
| 105 uA                       | 104.9540 uA  | 105.0020 uA  | 105.0460 uA  | 0.0047 uA |        |

### Current Measure Range 1 mA

|          |              |              |              |              |  |
|----------|--------------|--------------|--------------|--------------|--|
| -1.05 mA | -1.050410 mA | -1.049959 mA | -1.049590 mA | 0.000043 mA  |  |
| -0.5 mA  | -0.500300 mA | -0.499973 mA | -0.499700 mA | 0.000030 mA  |  |
| 0 mA     | -0.000200 mA | 0.000014 mA  | 0.000200 mA  | 0.0000091 mA |  |

Model B2912A Serial HERE SN  
Options Tested

Test Date 13 Dec 2019  
Condition As Completed

## CH1 MIDD CURR MEAS AND OUTP ACCY (cont.)

| TEST COND.                   | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|------------------------------|--------------|--------------|--------------|--------------|--------|
| 0.5 mA                       | 0.499700 mA  | 0.500030 mA  | 0.500300 mA  | 0.000030 mA  |        |
| 1.05 mA                      | 1.049590 mA  | 1.050019 mA  | 1.050410 mA  | 0.000043 mA  |        |
| Current Measure Range 10 mA  |              |              |              |              |        |
| -10.5 mA                     | -10.50460 mA | -10.49969 mA | -10.49540 mA | 0.00043 mA   |        |
| -5 mA                        | -5.00350 mA  | -4.99984 mA  | -4.99650 mA  | 0.00028 mA   |        |
| 0 mA                         | -0.00250 mA  | 0.00010 mA   | 0.00250 mA   | 0.000095 mA  |        |
| 5 mA                         | 4.99650 mA   | 5.00030 mA   | 5.00350 mA   | 0.00028 mA   |        |
| 10.5 mA                      | 10.49540 mA  | 10.49999 mA  | 10.50460 mA  | 0.00043 mA   |        |
| Current Measure Range 100 mA |              |              |              |              |        |
| -105 mA                      | -105.0410 mA | -104.9961 mA | -104.9590 mA | 0.0061 mA    |        |
| -50 mA                       | -50.0300 mA  | -49.9977 mA  | -49.9700 mA  | 0.0037 mA    |        |
| 0 mA                         | -0.0200 mA   | 0.0011 mA    | 0.0200 mA    | 0.00094 mA   |        |
| 50 mA                        | 49.9700 mA   | 50.0033 mA   | 50.0300 mA   | 0.0038 mA    |        |
| 105 mA                       | 104.9590 mA  | 105.0031 mA  | 105.0410 mA  | 0.0061 mA    |        |
| Current Measure Range 1 A    |              |              |              |              |        |
| -1.05 A                      | -1.051815 A  | -1.049943 A  | -1.048185 A  | 0.00016 A    |        |
| -0.5 A                       | -0.501650 A  | -0.499968 A  | -0.498350 A  | 0.000082 A   |        |
| 0 A                          | -0.001500 A  | 0.000023 A   | 0.001500 A   | 0.000019 A   |        |
| 0.5 A                        | 0.498350 A   | 0.500023 A   | 0.501650 A   | 0.000082 A   |        |
| 1.05 A                       | 1.048185 A   | 1.050026 A   | 1.051815 A   | 0.00016 A    |        |
| Current Source Range 100 uA  |              |              |              |              |        |
| -105 uA                      | -105.0460 uA | -105.0029 uA | -104.9540 uA | 0.0047 uA    |        |
| -50 uA                       | -50.0350 uA  | -50.0026 uA  | -49.9650 uA  | 0.0032 uA    |        |
| 0 uA                         | -0.0250 uA   | -0.0012 uA   | 0.0250 uA    | 0.0013 uA    |        |
| 50 uA                        | 49.9650 uA   | 49.9966 uA   | 50.0350 uA   | 0.0032 uA    |        |
| 105 uA                       | 104.9540 uA  | 104.9980 uA  | 105.0460 uA  | 0.0047 uA    |        |
| Current Source Range 1 mA    |              |              |              |              |        |
| -1.05 mA                     | -1.050410 mA | -1.050042 mA | -1.049590 mA | 0.000043 mA  |        |
| -0.5 mA                      | -0.500300 mA | -0.500027 mA | -0.499700 mA | 0.000030 mA  |        |
| 0 mA                         | -0.000200 mA | -0.000014 mA | 0.000200 mA  | 0.0000098 mA |        |
| 0.5 mA                       | 0.499700 mA  | 0.499970 mA  | 0.500300 mA  | 0.000030 mA  |        |
| 1.05 mA                      | 1.049590 mA  | 1.049981 mA  | 1.050410 mA  | 0.000043 mA  |        |
| Current Source Range 10 mA   |              |              |              |              |        |
| -10.5 mA                     | -10.50460 mA | -10.50031 mA | -10.49540 mA | 0.00043 mA   |        |
| -5 mA                        | -5.00350 mA  | -5.00016 mA  | -4.99650 mA  | 0.00028 mA   |        |
| 0 mA                         | -0.00250 mA  | -0.00010 mA  | 0.00250 mA   | 0.00010 mA   |        |
| 5 mA                         | 4.99650 mA   | 4.99970 mA   | 5.00350 mA   | 0.00028 mA   |        |
| 10.5 mA                      | 10.49540 mA  | 10.50001 mA  | 10.50460 mA  | 0.00043 mA   |        |
| Current Source Range 100 mA  |              |              |              |              |        |
| -105 mA                      | -105.0410 mA | -105.0041 mA | -104.9590 mA | 0.0061 mA    |        |
| -50 mA                       | -50.0300 mA  | -50.0024 mA  | -49.9700 mA  | 0.0037 mA    |        |
| 0 mA                         | -0.0200 mA   | -0.0012 mA   | 0.0200 mA    | 0.0011 mA    |        |
| 50 mA                        | 49.9700 mA   | 49.9969 mA   | 50.0300 mA   | 0.0038 mA    |        |
| 105 mA                       | 104.9590 mA  | 104.9969 mA  | 105.0410 mA  | 0.0061 mA    |        |

## CH1 MIDD CURR MEAS AND OUTP ACCY (cont.)

| TEST COND.               | MINIMUM     | MEASURED    | MAXIMUM     | UNCERT.    | Status |
|--------------------------|-------------|-------------|-------------|------------|--------|
| Current Source Range 1 A |             |             |             |            |        |
| -1.05 A                  | -1.051815 A | -1.050051 A | -1.048185 A | 0.00016 A  |        |
| -0.5 A                   | -0.501650 A | -0.500041 A | -0.498350 A | 0.000082 A |        |
| 0 A                      | -0.001500 A | -0.000023 A | 0.001500 A  | 0.000018 A |        |
| 0.5 A                    | 0.498350 A  | 0.499975 A  | 0.501650 A  | 0.000082 A |        |
| 1.05 A                   | 1.048185 A  | 1.049960 A  | 1.051815 A  | 0.00016 A  |        |

## CH1 HIGH CURR MEAS AND OUTP ACCY

**Passed**

| TEST COND.                  | MINIMUM     | MEASURED    | MAXIMUM     | UNCERT.   | Status |
|-----------------------------|-------------|-------------|-------------|-----------|--------|
| Current Measure Range 1.5 A |             |             |             |           |        |
| -1.515 A                    | -1.519258 A | -1.514816 A | -1.510743 A | 0.00037 A |        |
| -0.75 A                     | -0.753875 A | -0.749915 A | -0.746125 A | 0.00033 A |        |
| 0 A                         | -0.003500 A | 0.000051 A  | 0.003500 A  | 0.00032 A |        |
| 0.75 A                      | 0.746125 A  | 0.750060 A  | 0.753875 A  | 0.00033 A |        |
| 1.515 A                     | 1.510743 A  | 1.514916 A  | 1.519258 A  | 0.00037 A |        |
| Current Measure Range 3 A   |             |             |             |           |        |
| -3.03 A                     | -3.04912 A  | -3.02962 A  | -3.01088 A  | 0.00050 A |        |
| -1.5 A                      | -1.51300 A  | -1.49992 A  | -1.48700 A  | 0.00038 A |        |
| 0 A                         | -0.00700 A  | 0.00012 A   | 0.00700 A   | 0.00032 A |        |
| 1.5 A                       | 1.48700 A   | 1.50021 A   | 1.51300 A   | 0.00038 A |        |
| 3.03 A                      | 3.01088 A   | 3.03001 A   | 3.04912 A   | 0.00050 A |        |
| Current Measure Range 10 A  |             |             |             |           |        |
| -10.5 A                     | -10.56700 A | -10.49736 A | -10.43300 A | 0.0069 A  |        |
| -5 A                        | -5.04500 A  | -5.00054 A  | -4.95500 A  | 0.0087 A  |        |
| 0 A                         | -0.02500 A  | 0.00080 A   | 0.02500 A   | 0.0016 A  |        |
| 5 A                         | 4.95500 A   | 5.00148 A   | 5.04500 A   | 0.0087 A  |        |
| 10.5 A                      | 10.43300 A  | 10.50211 A  | 10.56700 A  | 0.0069 A  |        |
| Current Source Range 1.5 A  |             |             |             |           |        |
| -1.515 A                    | -1.519258 A | -1.515186 A | -1.510743 A | 0.00038 A |        |
| -0.75 A                     | -0.753875 A | -0.750085 A | -0.746125 A | 0.00033 A |        |
| 0 A                         | -0.003500 A | -0.000051 A | 0.003500 A  | 0.00032 A |        |
| 0.75 A                      | 0.746125 A  | 0.749939 A  | 0.753875 A  | 0.00033 A |        |
| 1.515 A                     | 1.510743 A  | 1.515083 A  | 1.519258 A  | 0.00038 A |        |
| Current Source Range 3 A    |             |             |             |           |        |
| -3.03 A                     | -3.04912 A  | -3.03038 A  | -3.01088 A  | 0.00052 A |        |
| -1.5 A                      | -1.51300 A  | -1.50008 A  | -1.48700 A  | 0.00038 A |        |
| 0 A                         | -0.00700 A  | -0.00012 A  | 0.00700 A   | 0.00032 A |        |
| 1.5 A                       | 1.48700 A   | 1.49979 A   | 1.51300 A   | 0.00038 A |        |
| 3.03 A                      | 3.01088 A   | 3.02999 A   | 3.04912 A   | 0.00052 A |        |
| Current Source Range 10 A   |             |             |             |           |        |
| -10.5 A                     | -10.56700 A | -10.50281 A | -10.43300 A | 0.0060 A  |        |
| -5 A                        | -5.04500 A  | -4.99937 A  | -4.95500 A  | 0.0085 A  |        |

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## CH1 HIGH CURR MEAS AND OUTP ACCY (cont.)

| TEST COND. | MINIMUM    | MEASURED   | MAXIMUM    | UNCERT.  | Status |
|------------|------------|------------|------------|----------|--------|
| 0 A        | -0.02500 A | -0.00071 A | 0.02500 A  | 0.0016 A |        |
| 5 A        | 4.95500 A  | 4.99878 A  | 5.04500 A  | 0.0085 A |        |
| 10.5 A     | 10.43300 A | 10.49808 A | 10.56700 A | 0.0060 A |        |

## CH2 VOLT MEAS AND OUTP ACCY

**Passed**

| TEST CONDITIONS             | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.     | Status |
|-----------------------------|--------------|--------------|--------------|-------------|--------|
| Voltage Measure Range 0.2 V |              |              |              |             |        |
| -0.21 V                     | -0.2102565 V | -0.2099812 V | -0.2097435 V | 0.000014 V  |        |
| -0.1 V                      | -0.1002400 V | -0.0999896 V | -0.0997600 V | 0.000014 V  |        |
| 0 V                         | -0.0002250 V | 0.0000070 V  | 0.0002250 V  | 0.0000032 V |        |
| 0.1 V                       | 0.0997600 V  | 0.1000042 V  | 0.1002400 V  | 0.000014 V  |        |
| 0.21 V                      | 0.2097435 V  | 0.2100110 V  | 0.2102565 V  | 0.000014 V  |        |
| Voltage Measure Range 2 V   |              |              |              |             |        |
| -2.1 V                      | -2.100770 V  | -2.099889 V  | -2.099230 V  | 0.000064 V  |        |
| -1 V                        | -1.000550 V  | -0.999973 V  | -0.999450 V  | 0.000061 V  |        |
| 0 V                         | -0.000350 V  | -0.000011 V  | 0.000350 V   | 0.0000033 V |        |
| 1 V                         | 0.999450 V   | 0.999968 V   | 1.000550 V   | 0.000061 V  |        |
| 2.1 V                       | 2.099230 V   | 2.100023 V   | 2.100770 V   | 0.000064 V  |        |
| Voltage Measure Range 20 V  |              |              |              |             |        |
| -21 V                       | -21.00815 V  | -20.99871 V  | -20.99185 V  | 0.00061 V   |        |
| -10 V                       | -10.00650 V  | -9.99976 V   | -9.99350 V   | 0.00056 V   |        |
| 0 V                         | -0.00500 V   | -0.00020 V   | 0.00500 V    | 0.000073 V  |        |
| 10 V                        | 9.99350 V    | 9.99947 V    | 10.00650 V   | 0.00056 V   |        |
| 21 V                        | 20.99185 V   | 21.00038 V   | 21.00815 V   | 0.00061 V   |        |
| Voltage Measure Range 200 V |              |              |              |             |        |
| -210 V                      | -210.0815 V  | -209.9855 V  | -209.9185 V  | 0.011 V     |        |
| -100 V                      | -100.0650 V  | -99.9982 V   | -99.9350 V   | 0.011 V     |        |
| 0 V                         | -0.0500 V    | -0.0023 V    | 0.0500 V     | 0.00050 V   |        |
| 100 V                       | 99.9350 V    | 99.9944 V    | 100.0650 V   | 0.011 V     |        |
| 210 V                       | 209.9185 V   | 210.0020 V   | 210.0815 V   | 0.011 V     |        |
| Voltage Source Range 0.2 V  |              |              |              |             |        |
| -0.21 V                     | -0.2102565 V | -0.2100187 V | -0.2097435 V | 0.000014 V  |        |
| -0.1 V                      | -0.1002400 V | -0.1000103 V | -0.0997600 V | 0.000014 V  |        |
| 0 V                         | -0.0002250 V | -0.0000069 V | 0.0002250 V  | 0.0000033 V |        |
| 0.1 V                       | 0.0997600 V  | 0.0999957 V  | 0.1002400 V  | 0.000014 V  |        |
| 0.21 V                      | 0.2097435 V  | 0.2099889 V  | 0.2102565 V  | 0.000014 V  |        |
| Voltage Source Range 2 V    |              |              |              |             |        |
| -2.1 V                      | -2.100770 V  | -2.100110 V  | -2.099230 V  | 0.000064 V  |        |
| -1 V                        | -1.000550 V  | -1.000027 V  | -0.999450 V  | 0.000061 V  |        |
| 0 V                         | -0.000350 V  | 0.000011 V   | 0.000350 V   | 0.0000062 V |        |
| 1 V                         | 0.999450 V   | 1.000032 V   | 1.000550 V   | 0.000061 V  |        |
| 2.1 V                       | 2.099230 V   | 2.099977 V   | 2.100770 V   | 0.000064 V  |        |

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Options Tested

Test Date 13 Dec 2019  
Condition As Completed

## CH2 VOLT MEAS AND OUTP ACCY (cont.)

| TEST CONDITIONS            | MINIMUM     | MEASURED    | MAXIMUM     | UNCERT.   | Status |
|----------------------------|-------------|-------------|-------------|-----------|--------|
| Voltage Source Range 20 V  |             |             |             |           |        |
| -21 V                      | -21.00815 V | -21.00129 V | -20.99185 V | 0.00061 V |        |
| -10 V                      | -10.00650 V | -10.00024 V | -9.99350 V  | 0.00056 V |        |
| 0 V                        | -0.00500 V  | 0.00020 V   | 0.00500 V   | 0.00011 V |        |
| 10 V                       | 9.99350 V   | 10.00053 V  | 10.00650 V  | 0.00056 V |        |
| 21 V                       | 20.99185 V  | 20.99962 V  | 21.00815 V  | 0.00061 V |        |
| Voltage Source Range 200 V |             |             |             |           |        |
| -210 V                     | -210.0815 V | -210.0145 V | -209.9185 V | 0.011 V   |        |
| -100 V                     | -100.0650 V | -100.0018 V | -99.9350 V  | 0.011 V   |        |
| 0 V                        | -0.0500 V   | 0.0023 V    | 0.0500 V    | 0.00088 V |        |
| 100 V                      | 99.9350 V   | 100.0056 V  | 100.0650 V  | 0.011 V   |        |
| 210 V                      | 209.9185 V  | 209.9980 V  | 210.0815 V  | 0.011 V   |        |

## CH2 LOW CURR MEAS AND OUTP ACCY

**Passed**

| TEST COND.                   | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|------------------------------|--------------|--------------|--------------|--------------|--------|
| Current Measure Range 10 nA  |              |              |              |              |        |
| -10.5 nA                     | -10.56050 nA | -10.49546 nA | -10.43950 nA | 0.0052 nA    |        |
| -5 nA                        | -5.05500 nA  | -4.99735 nA  | -4.94500 nA  | 0.0025 nA    |        |
| 0 nA                         | -0.05000 nA  | 0.00035 nA   | 0.05000 nA   | 0.00022 nA   |        |
| 5 nA                         | 4.94500 nA   | 4.99910 nA   | 5.05500 nA   | 0.0025 nA    |        |
| 10.5 nA                      | 10.43950 nA  | 10.49674 nA  | 10.56050 nA  | 0.0052 nA    |        |
| Current Measure Range 100 nA |              |              |              |              |        |
| -105 nA                      | -105.1630 nA | -104.9921 nA | -104.8370 nA | 0.0074 nA    |        |
| -50 nA                       | -50.1300 nA  | -49.9949 nA  | -49.8700 nA  | 0.0037 nA    |        |
| 0 nA                         | -0.1000 nA   | 0.0014 nA    | 0.1000 nA    | 0.00078 nA   |        |
| 50 nA                        | 49.8700 nA   | 50.0027 nA   | 50.1300 nA   | 0.0037 nA    |        |
| 105 nA                       | 104.8370 nA  | 104.9999 nA  | 105.1630 nA  | 0.0074 nA    |        |
| Current Measure Range 1 uA   |              |              |              |              |        |
| -1.05 uA                     | -1.050763 uA | -1.049962 uA | -1.049238 uA | 0.000062 uA  |        |
| -0.5 uA                      | -0.500625 uA | -0.499976 uA | -0.499375 uA | 0.000032 uA  |        |
| 0 uA                         | -0.000500 uA | 0.000007 uA  | 0.000500 uA  | 0.0000051 uA |        |
| 0.5 uA                       | 0.499375 uA  | 0.500020 uA  | 0.500625 uA  | 0.000032 uA  |        |
| 1.05 uA                      | 1.049238 uA  | 1.050032 uA  | 1.050763 uA  | 0.000062 uA  |        |
| Current Measure Range 10 uA  |              |              |              |              |        |
| -10.5 uA                     | -10.50413 uA | -10.49946 uA | -10.49588 uA | 0.00039 uA   |        |
| -5 uA                        | -5.00275 uA  | -4.99962 uA  | -4.99725 uA  | 0.00020 uA   |        |
| 0 uA                         | -0.00150 uA  | 0.00012 uA   | 0.00150 uA   | 0.000056 uA  |        |
| 5 uA                         | 4.99725 uA   | 5.00028 uA   | 5.00275 uA   | 0.00020 uA   |        |
| 10.5 uA                      | 10.49588 uA  | 10.50032 uA  | 10.50413 uA  | 0.00039 uA   |        |
| Current Source Range 10 nA   |              |              |              |              |        |
| -10.5 nA                     | -10.56050 nA | -10.50454 nA | -10.43950 nA | 0.0052 nA    |        |
| -5 nA                        | -5.05500 nA  | -5.00265 nA  | -4.94500 nA  | 0.0025 nA    |        |

## CH2 LOW CURR MEAS AND OUTP ACCY (cont.)

| TEST COND.                  | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|-----------------------------|--------------|--------------|--------------|--------------|--------|
| 0 nA                        | -0.05000 nA  | -0.00035 nA  | 0.05000 nA   | 0.00022 nA   |        |
| 5 nA                        | 4.94500 nA   | 5.00089 nA   | 5.05500 nA   | 0.0025 nA    |        |
| 10.5 nA                     | 10.43950 nA  | 10.50326 nA  | 10.56050 nA  | 0.0052 nA    |        |
| Current Source Range 100 nA |              |              |              |              |        |
| -105 nA                     | -105.1630 nA | -105.0079 nA | -104.8370 nA | 0.0074 nA    |        |
| -50 nA                      | -50.1300 nA  | -50.0052 nA  | -49.8700 nA  | 0.0037 nA    |        |
| 0 nA                        | -0.1000 nA   | -0.0015 nA   | 0.1000 nA    | 0.00078 nA   |        |
| 50 nA                       | 49.8700 nA   | 49.9972 nA   | 50.1300 nA   | 0.0037 nA    |        |
| 105 nA                      | 104.8370 nA  | 105.0000 nA  | 105.1630 nA  | 0.0074 nA    |        |
| Current Source Range 1 uA   |              |              |              |              |        |
| -1.05 uA                    | -1.050763 uA | -1.050038 uA | -1.049238 uA | 0.000062 uA  |        |
| -0.5 uA                     | -0.500625 uA | -0.500024 uA | -0.499375 uA | 0.000032 uA  |        |
| 0 uA                        | -0.000500 uA | -0.000007 uA | 0.000500 uA  | 0.0000051 uA |        |
| 0.5 uA                      | 0.499375 uA  | 0.499980 uA  | 0.500625 uA  | 0.000032 uA  |        |
| 1.05 uA                     | 1.049238 uA  | 1.049968 uA  | 1.050763 uA  | 0.000062 uA  |        |
| Current Source Range 10 uA  |              |              |              |              |        |
| -10.5 uA                    | -10.50413 uA | -10.50054 uA | -10.49588 uA | 0.00038 uA   |        |
| -5 uA                       | -5.00275 uA  | -5.00038 uA  | -4.99725 uA  | 0.00020 uA   |        |
| 0 uA                        | -0.00150 uA  | -0.00012 uA  | 0.00150 uA   | 0.000081 uA  |        |
| 5 uA                        | 4.99725 uA   | 4.99972 uA   | 5.00275 uA   | 0.00020 uA   |        |
| 10.5 uA                     | 10.49588 uA  | 10.49968 uA  | 10.50413 uA  | 0.00038 uA   |        |

## CH2 HIGH CAP CURR ACCY

**Passed**

| TEST COND.                 | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|----------------------------|--------------|--------------|--------------|--------------|--------|
| Current Measure Range 1 uA |              |              |              |              |        |
| -1 uA                      | -1.000750 uA | -0.999965 uA | -0.999250 uA | 0.000058 uA  |        |
| -0.1 uA                    | -0.100525 uA | -0.099985 uA | -0.099475 uA | 0.000013 uA  |        |
| 0.1 uA                     | 0.099475 uA  | 0.100007 uA  | 0.100525 uA  | 0.000012 uA  |        |
| 1 uA                       | 0.999250 uA  | 1.000013 uA  | 1.000750 uA  | 0.000059 uA  |        |
| Current Source Range 1 uA  |              |              |              |              |        |
| -1 uA                      | -1.000750 uA | -0.999880 uA | -0.999250 uA | 0.000063 uA  |        |
| -0.1 uA                    | -0.100525 uA | -0.099995 uA | -0.099475 uA | 0.000010 uA  |        |
| 0.1 uA                     | 0.099475 uA  | 0.099982 uA  | 0.100525 uA  | 0.0000096 uA |        |
| 1 uA                       | 0.999250 uA  | 0.999907 uA  | 1.000750 uA  | 0.000059 uA  |        |

## CH2 MIDD CURR MEAS AND OUTP ACCY

**Passed**

| TEST COND.                   | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.   | Status |
|------------------------------|--------------|--------------|--------------|-----------|--------|
| Current Measure Range 100 uA |              |              |              |           |        |
| -105 uA                      | -105.0460 uA | -104.9955 uA | -104.9540 uA | 0.0047 uA |        |
| -50 uA                       | -50.0350 uA  | -49.9970 uA  | -49.9650 uA  | 0.0032 uA |        |
| 0 uA                         | -0.0250 uA   | 0.0016 uA    | 0.0250 uA    | 0.0013 uA |        |



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## CH2 MIDD CURR MEAS AND OUTP ACCY (cont.)

| TEST COND.                   | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.      | Status |
|------------------------------|--------------|--------------|--------------|--------------|--------|
| 50 uA                        | 49.9650 uA   | 50.0024 uA   | 50.0350 uA   | 0.0032 uA    |        |
| 105 uA                       | 104.9540 uA  | 105.0029 uA  | 105.0460 uA  | 0.0047 uA    |        |
| Current Measure Range 1 mA   |              |              |              |              |        |
| -1.05 mA                     | -1.050410 mA | -1.049950 mA | -1.049590 mA | 0.000043 mA  |        |
| -0.5 mA                      | -0.500300 mA | -0.499971 mA | -0.499700 mA | 0.000030 mA  |        |
| 0 mA                         | -0.000200 mA | 0.000013 mA  | 0.000200 mA  | 0.0000091 mA |        |
| 0.5 mA                       | 0.499700 mA  | 0.500022 mA  | 0.500300 mA  | 0.000030 mA  |        |
| 1.05 mA                      | 1.049590 mA  | 1.050029 mA  | 1.050410 mA  | 0.000043 mA  |        |
| Current Measure Range 10 mA  |              |              |              |              |        |
| -10.5 mA                     | -10.50460 mA | -10.49938 mA | -10.49540 mA | 0.00043 mA   |        |
| -5 mA                        | -5.00350 mA  | -4.99966 mA  | -4.99650 mA  | 0.00028 mA   |        |
| 0 mA                         | -0.00250 mA  | 0.00017 mA   | 0.00250 mA   | 0.000095 mA  |        |
| 5 mA                         | 4.99650 mA   | 5.00036 mA   | 5.00350 mA   | 0.00028 mA   |        |
| 10.5 mA                      | 10.49540 mA  | 10.50039 mA  | 10.50460 mA  | 0.00043 mA   |        |
| Current Measure Range 100 mA |              |              |              |              |        |
| -105 mA                      | -105.0410 mA | -104.9958 mA | -104.9590 mA | 0.0061 mA    |        |
| -50 mA                       | -50.0300 mA  | -49.9963 mA  | -49.9700 mA  | 0.0037 mA    |        |
| 0 mA                         | -0.0200 mA   | 0.0018 mA    | 0.0200 mA    | 0.00094 mA   |        |
| 50 mA                        | 49.9700 mA   | 50.0024 mA   | 50.0300 mA   | 0.0038 mA    |        |
| 105 mA                       | 104.9590 mA  | 105.0020 mA  | 105.0410 mA  | 0.0061 mA    |        |
| Current Measure Range 1 A    |              |              |              |              |        |
| -1.05 A                      | -1.051815 A  | -1.049946 A  | -1.048185 A  | 0.00016 A    |        |
| -0.5 A                       | -0.501650 A  | -0.499976 A  | -0.498350 A  | 0.000082 A   |        |
| 0 A                          | -0.001500 A  | 0.000027 A   | 0.001500 A   | 0.000019 A   |        |
| 0.5 A                        | 0.498350 A   | 0.500064 A   | 0.501650 A   | 0.000082 A   |        |
| 1.05 A                       | 1.048185 A   | 1.050038 A   | 1.051815 A   | 0.00016 A    |        |
| Current Source Range 100 uA  |              |              |              |              |        |
| -105 uA                      | -105.0460 uA | -105.0045 uA | -104.9540 uA | 0.0047 uA    |        |
| -50 uA                       | -50.0350 uA  | -50.0030 uA  | -49.9650 uA  | 0.0032 uA    |        |
| 0 uA                         | -0.0250 uA   | -0.0016 uA   | 0.0250 uA    | 0.0013 uA    |        |
| 50 uA                        | 49.9650 uA   | 49.9976 uA   | 50.0350 uA   | 0.0032 uA    |        |
| 105 uA                       | 104.9540 uA  | 104.9971 uA  | 105.0460 uA  | 0.0047 uA    |        |
| Current Source Range 1 mA    |              |              |              |              |        |
| -1.05 mA                     | -1.050410 mA | -1.050050 mA | -1.049590 mA | 0.000043 mA  |        |
| -0.5 mA                      | -0.500300 mA | -0.500030 mA | -0.499700 mA | 0.000030 mA  |        |
| 0 mA                         | -0.000200 mA | -0.000013 mA | 0.000200 mA  | 0.0000098 mA |        |
| 0.5 mA                       | 0.499700 mA  | 0.499978 mA  | 0.500300 mA  | 0.000030 mA  |        |
| 1.05 mA                      | 1.049590 mA  | 1.049972 mA  | 1.050410 mA  | 0.000043 mA  |        |
| Current Source Range 10 mA   |              |              |              |              |        |
| -10.5 mA                     | -10.50460 mA | -10.50062 mA | -10.49540 mA | 0.00043 mA   |        |
| -5 mA                        | -5.00350 mA  | -5.00034 mA  | -4.99650 mA  | 0.00028 mA   |        |
| 0 mA                         | -0.00250 mA  | -0.00017 mA  | 0.00250 mA   | 0.00010 mA   |        |
| 5 mA                         | 4.99650 mA   | 4.99964 mA   | 5.00350 mA   | 0.00028 mA   |        |
| 10.5 mA                      | 10.49540 mA  | 10.49961 mA  | 10.50460 mA  | 0.00043 mA   |        |

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## CH2 MIDD CURR MEAS AND OUTP ACCY (cont.)

| TEST COND.                  | MINIMUM      | MEASURED     | MAXIMUM      | UNCERT.    | Status |
|-----------------------------|--------------|--------------|--------------|------------|--------|
| Current Source Range 100 mA |              |              |              |            |        |
| -105 mA                     | -105.0410 mA | -105.0049 mA | -104.9590 mA | 0.0061 mA  |        |
| -50 mA                      | -50.0300 mA  | -50.0038 mA  | -49.9700 mA  | 0.0037 mA  |        |
| 0 mA                        | -0.0200 mA   | -0.0019 mA   | 0.0200 mA    | 0.0011 mA  |        |
| 50 mA                       | 49.9700 mA   | 49.9976 mA   | 50.0300 mA   | 0.0038 mA  |        |
| 105 mA                      | 104.9590 mA  | 104.9968 mA  | 105.0410 mA  | 0.0061 mA  |        |
| Current Source Range 1 A    |              |              |              |            |        |
| -1.05 A                     | -1.051815 A  | -1.050052 A  | -1.048185 A  | 0.00016 A  |        |
| -0.5 A                      | -0.501650 A  | -0.500032 A  | -0.498350 A  | 0.000082 A |        |
| 0 A                         | -0.001500 A  | -0.000027 A  | 0.001500 A   | 0.000018 A |        |
| 0.5 A                       | 0.498350 A   | 0.499940 A   | 0.501650 A   | 0.000082 A |        |
| 1.05 A                      | 1.048185 A   | 1.049952 A   | 1.051815 A   | 0.00016 A  |        |

## CH2 HIGH CURR MEAS AND OUTP ACCY

**Passed**

| TEST COND.                  | MINIMUM     | MEASURED    | MAXIMUM     | UNCERT.   | Status |
|-----------------------------|-------------|-------------|-------------|-----------|--------|
| Current Measure Range 1.5 A |             |             |             |           |        |
| -1.515 A                    | -1.519258 A | -1.514795 A | -1.510743 A | 0.00037 A |        |
| -0.75 A                     | -0.753875 A | -0.749906 A | -0.746125 A | 0.00033 A |        |
| 0 A                         | -0.003500 A | 0.000081 A  | 0.003500 A  | 0.00032 A |        |
| 0.75 A                      | 0.746125 A  | 0.750094 A  | 0.753875 A  | 0.00033 A |        |
| 1.515 A                     | 1.510743 A  | 1.515000 A  | 1.519258 A  | 0.00037 A |        |
| Current Measure Range 3 A   |             |             |             |           |        |
| -3.03 A                     | -3.04912 A  | -3.02939 A  | -3.01088 A  | 0.00050 A |        |
| -1.5 A                      | -1.51300 A  | -1.49991 A  | -1.48700 A  | 0.00038 A |        |
| 0 A                         | -0.00700 A  | 0.00011 A   | 0.00700 A   | 0.00032 A |        |
| 1.5 A                       | 1.48700 A   | 1.50020 A   | 1.51300 A   | 0.00038 A |        |
| 3.03 A                      | 3.01088 A   | 3.02970 A   | 3.04912 A   | 0.00050 A |        |
| Current Measure Range 10 A  |             |             |             |           |        |
| -10.5 A                     | -10.56700 A | -10.49666 A | -10.43300 A | 0.0069 A  |        |
| -5 A                        | -5.04500 A  | -4.99793 A  | -4.95500 A  | 0.0087 A  |        |
| 0 A                         | -0.02500 A  | 0.00048 A   | 0.02500 A   | 0.0016 A  |        |
| 5 A                         | 4.95500 A   | 5.00318 A   | 5.04500 A   | 0.0087 A  |        |
| 10.5 A                      | 10.43300 A  | 10.50696 A  | 10.56700 A  | 0.0069 A  |        |
| Current Source Range 1.5 A  |             |             |             |           |        |
| -1.515 A                    | -1.519258 A | -1.515197 A | -1.510743 A | 0.00038 A |        |
| -0.75 A                     | -0.753875 A | -0.750095 A | -0.746125 A | 0.00033 A |        |
| 0 A                         | -0.003500 A | -0.000081 A | 0.003500 A  | 0.00032 A |        |
| 0.75 A                      | 0.746125 A  | 0.749906 A  | 0.753875 A  | 0.00033 A |        |
| 1.515 A                     | 1.510743 A  | 1.515000 A  | 1.519258 A  | 0.00038 A |        |
| Current Source Range 3 A    |             |             |             |           |        |
| -3.03 A                     | -3.04912 A  | -3.03061 A  | -3.01088 A  | 0.00052 A |        |
| -1.5 A                      | -1.51300 A  | -1.50009 A  | -1.48700 A  | 0.00038 A |        |

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## CH2 HIGH CURR MEAS AND OUTP ACCY (cont.)

| TEST COND.                | MINIMUM     | MEASURED    | MAXIMUM     | UNCERT.   | Status |
|---------------------------|-------------|-------------|-------------|-----------|--------|
| 0 A                       | -0.00700 A  | -0.00011 A  | 0.00700 A   | 0.00032 A |        |
| 1.5 A                     | 1.48700 A   | 1.49980 A   | 1.51300 A   | 0.00038 A |        |
| 3.03 A                    | 3.01088 A   | 3.03030 A   | 3.04912 A   | 0.00052 A |        |
| Current Source Range 10 A |             |             |             |           |        |
| -10.5 A                   | -10.56700 A | -10.50340 A | -10.43300 A | 0.0060 A  |        |
| -5 A                      | -5.04500 A  | -5.00232 A  | -4.95500 A  | 0.0085 A  |        |
| 0 A                       | -0.02500 A  | -0.00053 A  | 0.02500 A   | 0.0016 A  |        |
| 5 A                       | 4.95500 A   | 4.99700 A   | 5.04500 A   | 0.0085 A  |        |
| 10.5 A                    | 10.43300 A  | 10.49335 A  | 10.56700 A  | 0.0060 A  |        |

## SELF CAL AND TEST

As Expected

| TEST CONDITIONS  | RESULT | Status |
|------------------|--------|--------|
| Self Calibration | DONE   |        |
| Self Test        | DONE   |        |

## CH1 CURRENT CMR

As Expected

| TEST CONDITIONS | RESULT | Status |
|-----------------|--------|--------|
| 200 V Range     | DONE   |        |

NOTE:

This test is a function check, and result status reported here is for information only.

## CH1 VOLTAGE CMR

As Expected

| TEST CONDITIONS | RESULT | Status |
|-----------------|--------|--------|
| 100 uA Range    | DONE   |        |

NOTE:

This test is a function check, and result status reported here is for information only.

## CH2 CURRENT CMR

As Expected

| TEST CONDITIONS | RESULT | Status |
|-----------------|--------|--------|
| 200 V Range     | DONE   |        |

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**Options Tested**

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Condition As Completed

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## CH2 CURRENT CMR (cont.)

| <u>TEST CONDITIONS</u> | <u>RESULT</u> | <u>Status</u> |
|------------------------|---------------|---------------|
|------------------------|---------------|---------------|

NOTE:

This test is a function check, and result status reported here is for information only.

## CH2 VOLTAGE CMR

**As Expected**

| <u>TEST CONDITIONS</u> | <u>RESULT</u> | <u>Status</u> |
|------------------------|---------------|---------------|
| 100 uA Range           | DONE          |               |

NOTE:

This test is a function check, and result status reported here is for information only.