

# Schedule

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Certificate No. : LA-1997-0124-C  
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## SCOPE OF ACCREDITATION

FIELD OF TESTING : Calibration and Measurement

| MEASURED QUANTITIES/<br>INSTRUMENTS/ RANGE<br>TO BE CALIBRATED   | FREQUENCY / METHOD | BEST MEASUREMENT<br>CAPABILITY EXPRESSED<br>AS AN UNCERTAINTY ( $\pm$ ) *   |
|--|--------------------|---|
| A. DC Voltage Source<br>0 mV to 220 mV<br>220 mV to 2.2 V<br>2.2 V to 11 V<br>11 V to 22 V<br>22 V to 220 V<br>220 V to 1100 V   |                    | 9 ppm + 0.8 $\mu$ V<br>8 ppm + 1.2 $\mu$ V<br>8 ppm + 4 $\mu$ V<br>8 ppm + 8 $\mu$ V<br>9 ppm + 100 $\mu$ V<br>11 ppm + 600 $\mu$ V                                       |
| B. Resistance Source<br>1 $\Omega$<br>1.9 $\Omega$<br>10 $\Omega$<br>19 $\Omega$<br>100 $\Omega$<br>190 $\Omega$<br>1 k $\Omega$<br>1.9 k $\Omega$<br>10 k $\Omega$<br>19 k $\Omega$<br>100 k $\Omega$<br>190 k $\Omega$<br>1 M $\Omega$<br>1.9 M $\Omega$<br>10 M $\Omega$<br>19 M $\Omega$<br>100 M $\Omega$ |                    | 110 ppm<br>110 ppm<br>33 ppm<br>31 ppm<br>20 ppm<br>20 ppm<br>15 ppm<br>15 ppm<br>14 ppm<br>14 ppm<br>16 ppm<br>16 ppm<br>23 ppm<br>24 ppm<br>46 ppm<br>55 ppm<br>130 ppm |

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|--|----------------------|---|---------------------|
| C. DC Current Source<br>0 $\mu$ A to 220 $\mu$ A<br>220 $\mu$ A to 2.2 mA<br>2.2 mA to 22 mA<br>22 mA to 220 mA<br>220 mA to 2.2 A |                      | 60 ppm + 10 nA  |                     |
|  |                      | 60 ppm + 10 nA  |                     |
|  |                      | 60 ppm + 100 nA   |                     |
|  |                      | 70 ppm + 1 $\mu$ A  |                     |
|  |                      | 95 ppm + 30 $\mu$ A   |                     |
| D. AC Voltage Source<br>0 mV to 2.2 mV   | 10 Hz to 20 Hz       | 600 ppm + 5 $\mu$ V   |                     |
|  | 20 Hz to 40 Hz       | 240 ppm + 5 $\mu$ V   |                     |
|  | 40 Hz to 20 kHz      | 120 ppm + 5 $\mu$ V   |                     |
|  | 20 Hz k to 50 kHz    | 410 ppm + 5 $\mu$ V   |                     |
|  | 50 kHz to 100 kHz    | 950 ppm + 8 $\mu$ V   |                     |
|  | 100 kHz to 300 kHz   | 0.13 % + 15 $\mu$ V   |                     |
|  | 300 kHz to 500 kHz   | 0.18 % + 30 $\mu$ V   |                     |
|  | 500 kHz to 1 MHz     | 0.36 % + 30 $\mu$ V   |                     |
|  | 2.2 mV to 22 mV      | 10 Hz to 20 Hz  | 600 ppm + 6 $\mu$ V |
|  |                      | 20 Hz to 40 Hz  | 240 ppm + 6 $\mu$ V |
|  |                      | 40 Hz to 20 kHz   | 120 ppm + 6 $\mu$ V |
|  |                      | 20 kHz to 50 kHz  | 410 ppm + 6 $\mu$ V |
|  |                      | 50 kHz to 100 kHz   | 950 ppm + 8 $\mu$ V |
| 22 mV to 220 mV  | 100 kHz to 300 kHz   | 0.13 % + 15 $\mu$ V   |                     |
|  | 300 kHz to 500 kHz   | 0.18 % + 30 $\mu$ V   |                     |
|  | 500 kHz to 1 MHz     | 0.36 % + 30 $\mu$ V   |                     |
|  | 10 Hz to 20 Hz       | 600 ppm + 16 $\mu$ V  |                     |
|  | 20 Hz to 40 Hz       | 240 ppm + 10 $\mu$ V  |                     |
| 40 Hz to 20 kHz  | 110 ppm + 10 $\mu$ V |   |                     |
| 20 kHz to 50 kHz   | 360 ppm + 10 $\mu$ V |   |                     |
| 50 kHz to 100 kHz  | 900 ppm + 30 $\mu$ V |   |                     |
| 100 kHz to 300 kHz   | 0.11 % + 30 $\mu$ V  |   |                     |
| 300 kHz to 500 kHz   | 0.18 % + 40 $\mu$ V  |   |                     |
| 500 kHz to 1 MHz   | 0.36 % + 100 $\mu$ V |   |                     |

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|--|---|---|
| 220 mV to 2.2 V  | 10 Hz to 20 Hz<br>20 Hz to 40 Hz<br>40 Hz to 20 k Hz<br>20 kHz to 50 kHz<br>50 kHz to 100 kHz<br>100 kHz to 300 kHz<br>300 kHz to 500 kHz<br>500 kHz to 1 MHz | 600 ppm + 100 $\mu$ V<br>180 ppm + 30 $\mu$ V<br>85 ppm + 7 $\mu$ V<br>140 ppm + 20 $\mu$ V<br>280 ppm + 80 $\mu$ V<br>480 ppm + 150 $\mu$ V<br>0.12 % + 400 $\mu$ V<br>0.24 % + 1 mV |
| 2.2 V to 22 V  | 10 Hz to 20 Hz<br>20 Hz to 40 Hz<br>40 Hz to 20 kHz<br>20 kHz to 50 kHz<br>50 kHz to 100 kHz<br>100 kHz to 300 kHz<br>300 kHz to 500 kHz<br>500 kHz to 1 MHz  | 600 ppm + 1 mV<br>180 ppm + 300 $\mu$ V<br>85 ppm + 70 $\mu$ V<br>140 ppm + 200 $\mu$ V<br>280 ppm + 400 $\mu$ V<br>600 ppm + 1.7 mV<br>0.14 % + 5 mV<br>0.30 % + 9 mV                |
| 22 V to 220 V  | 10 Hz to 20 Hz<br>20 Hz to 40 Hz<br>40 Hz to 20 k Hz<br>20 kHz to 50 kHz<br>50 kHz to 100 kHz<br>100 kHz to 300 kHz<br>300 kHz to 500 kHz<br>500 kHz to 1 MHz | 600 ppm + 10 mV<br>180 ppm + 3 mV<br>90 ppm + 1 mV<br>250 ppm + 4 mV<br>600 ppm + 10 mV<br>0.16 % + 110 mV<br>0.54 + 110 mV<br>1.30 % + 220 mV  |
| 220 V to 1100 V  | 50 Hz to 1 kHz  | 90 ppm + 4 mV   |
| E. AC Current Source<br>0 $\mu$ A to 220 $\mu$ A               | 10 Hz to 20 Hz<br>20 Hz to 40 Hz<br>40 Hz to 1 kHz<br>1 kHz to 5 kHz<br>5 kHz to 10 kHz   | 800 ppm + 30 nA<br>420 ppm + 25 nA<br>160 ppm + 20 nA<br>700 ppm + 50 nA<br>0.18 % + 100 nA   |

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|--|---|---|
| 220 $\mu$ A to 2.2 mA  | 10 Hz to 20 Hz<br>20 Hz to 40 Hz<br>40 Hz to 1 kHz<br>1 kHz to 5 kHz<br>5 kHz to 10 kHz | 800 ppm + 50 nA<br>420 ppm + 40 nA<br>160 ppm + 40 nA<br>700 ppm + 500 nA<br>0.18 % + 1 $\mu$ A                   |
| 2.2 mA to 22 mA  | 10 Hz to 20 Hz<br>20 Hz to 40 Hz<br>40 Hz to 1 kHz<br>1 kHz to 5 kHz<br>5 kHz to 10 kHz | 800 ppm + 500 nA<br>420 ppm + 400 nA<br>160 ppm + 400 nA<br>700 ppm + 5 $\mu$ A<br>0.18 % + 10 $\mu$ A            |
| 22 mA to 220 mA  | 10 Hz to 20 Hz<br>20 Hz to 40 Hz<br>40 Hz to 1 kHz<br>1 kHz to 5 kHz<br>5 kHz to 10 kHz | 800 ppm + 5 $\mu$ A<br>420 ppm + 4 $\mu$ A<br>180 ppm + 4 $\mu$ A<br>700 ppm + 50 $\mu$ A<br>0.18 % + 100 $\mu$ A |
| 220 mA to 2.2 A  | 20 Hz to 1 kHz<br>1 kHz to 5 kHz<br>5 kHz to 10 kHz                                     | 750 ppm + 40 $\mu$ A<br>850 ppm + 100 $\mu$ A<br>1.0 % + 200 $\mu$ A  |
| F. DC Voltage Measuring Instrument                             |   |   |
| 0 mV to 100 mV   |   | 7 ppm + 0.3 $\mu$ V   |
| 100 mV to 1 V  |   | 6 ppm + 0.3 $\mu$ V   |
| 1 V to 10 V  |   | 6 ppm + 0.5 $\mu$ V   |
| 10 V to 100 V  |   | 8 ppm + 30 $\mu$ V  |
| 100 V to 1050 V  |   | 8 ppm + 100 $\mu$ V   |

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|---|---|---|
| <p>G. Resistance Measuring Instrument</p> <p>0 <math>\Omega</math> to 10 <math>\Omega</math><br/>10 <math>\Omega</math> to 100 <math>\Omega</math></p> <p>100 <math>\Omega</math> to 1 k<math>\Omega</math><br/>1 k<math>\Omega</math> to 10 k<math>\Omega</math><br/>10 k<math>\Omega</math> to 100 k<math>\Omega</math><br/>100 k<math>\Omega</math> to 1 M<math>\Omega</math><br/>1 M<math>\Omega</math> to 10 M<math>\Omega</math><br/>10 M<math>\Omega</math> to 100 M<math>\Omega</math><br/>100 M<math>\Omega</math> to 1 G<math>\Omega</math></p> |   | <p>18 ppm + 50 <math>\mu\Omega</math><br/>15 ppm + 500 <math>\mu\Omega</math></p> <p>13 ppm + 500 <math>\mu\Omega</math><br/>13 ppm + 5 m<math>\Omega</math><br/>13 ppm + 50 m<math>\Omega</math><br/>18 ppm + 2 <math>\Omega</math><br/>53 ppm + 100 <math>\Omega</math><br/>503 ppm + 1 k<math>\Omega</math><br/>0.5003 % + 10 k<math>\Omega</math></p> |
| <p>H. DC Current Measuring Instrument</p> <p>0 nA to 100 nA<br/>100 nA to 1 <math>\mu</math>A<br/>1 <math>\mu</math>A to 10 <math>\mu</math>A<br/>10 <math>\mu</math>A to 100 <math>\mu</math>A<br/>100 <math>\mu</math>A to 1 mA<br/>1 mA to 10 mA<br/>10 mA to 100 mA<br/>100 mA to 1.05 A</p>  |   | <p>35 ppm + 40 pA<br/>25 ppm + 40 pA<br/>25 ppm + 100 pA<br/>25 ppm + 800 pA<br/>25 ppm + 5 nA<br/>25 ppm + 50 nA<br/>40 ppm + 500 nA<br/>115 ppm + 10 <math>\mu</math>A</p>  |
| <p>I. AC Voltage Measuring Instrument</p> <p>0 mV to 10 mV</p>  | <p>1 Hz to 40 Hz<br/>40 Hz to 1 kHz<br/>1 kHz to 20 kHz<br/>20 kHz to 50 kHz<br/>50 kHz to 100 kHz<br/>100 kHz to 1 MHz<br/>1 MHz to 4 MHz<br/>4 MHz to 8 MHz</p> | <p>0.0302 % + 3 <math>\mu</math>V<br/>0.0202 % + 1.1 <math>\mu</math>V<br/>0.0302 % + 1.1 <math>\mu</math>V<br/>0.1002 % + 1.1 <math>\mu</math>V<br/>0.0902 % + 6 <math>\mu</math>V<br/>1.2002 % + 5 <math>\mu</math>V<br/>7.0002 % + 7 <math>\mu</math>V<br/>20 % + 8 <math>\mu</math>V</p>  |

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|--|--------------------|---|------------------------|
| 10 mV to 100 mV  | 1 Hz to 40 Hz      | 0.0072 % + 4 $\mu$ V  |                        |
|  | 40 Hz to 1 kHz     | 0.0072 % + 2 $\mu$ V  |                        |
|  | 1 kHz to 20 kHz    | 0.0142 % + 2 $\mu$ V  |                        |
|  | 20 kHz to 50 kHz   | 0.0302 % + 2 $\mu$ V  |                        |
|  | 50 kHz to 100 kHz  | 0.0802 % + 2 $\mu$ V  |                        |
|  | 100 kHz to 300 kHz | 0.3002 % + 10 $\mu$ V   |                        |
|  | 300 kHz to 1 MHz   | 1 % + 10 $\mu$ V  |                        |
|  | 1 MHz to 2 MHz     | 1.5 % + 10 $\mu$ V  |                        |
|  | 2 MHz to 4 MHz     | 4 % + 70 $\mu$ V  |                        |
|  | 4 MHz to 8 MHz     | 4 % + 80 $\mu$ V  |                        |
|  | 8 MHz to 10 MHz    | 15 % + 100 $\mu$ V  |                        |
|  | 100 mV to 1 V      | 1 Hz to 40 Hz   | 0.0072 % + 40 $\mu$ V  |
|  |                    | 40 Hz to 1 kHz  | 0.0072 % + 20 $\mu$ V  |
|  |                    | 1 kHz to 20 kHz   | 0.0142 % + 20 $\mu$ V  |
|  |                    | 20 kHz to 50 kHz  | 0.0302 % + 20 $\mu$ V  |
|  |                    | 50 kHz to 100 kHz   | 0.0802 % + 20 $\mu$ V  |
| 100 kHz to 300 kHz   |                    | 0.3002 % + 100 $\mu$ V  |                        |
| 300 kHz to 1 MHz   |                    | 1 % + 100 $\mu$ V   |                        |
| 1 MHz to 2 MHz   |                    | 1.5 % + 100 $\mu$ V   |                        |
| 2 MHz to 4 MHz   |                    | 4 % + 700 $\mu$ V   |                        |
| 4 MHz to 8 MHz   |                    | 4 % + 800 $\mu$ V   |                        |
| 8 MHz to 10 MHz  |                    | 15 % + 1 mV   |                        |
| 1 V to 10 V  |                    | 1 Hz to 40 Hz   | 0.0072 % + 400 $\mu$ V |
|  |                    | 40 Hz to 1 kHz  | 0.0072 % + 200 $\mu$ V |
|  |                    | 1 kHz to 20 kHz   | 0.0142 % + 200 $\mu$ V |
|  |                    | 20 kHz to 50 kHz  | 0.0302 % + 200 $\mu$ V |
|  |                    | 50 kHz to 100 kHz   | 0.0802 % + 200 $\mu$ V |
|  | 100 kHz to 300 kHz | 0.3002 % + 1 mV   |                        |
|  | 300 kHz to 1 MHz   | 1 % + 1 mV  |                        |
|  | 1 MHz to 2 MHz     | 1.5 % + 1 mV  |                        |
|  | 2 MHz to 4 MHz     | 4 % + 7 mV  |                        |
|  | 4 MHz to 8 MHz     | 4 % + 8 mV  |                        |
|  | 8 MHz to 10 MHz    | 15 % + 10 mV  |                        |

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|--|--|---|
| 10 V to 100 V  | 1 Hz to 40 Hz<br>40 Hz to 1 kHz<br>1 kHz to 20 kHz<br>20 kHz to 50 kHz<br>50 kHz to 100 kHz<br>100 kHz to 300 kHz<br>300 kHz to 1 MHz  | 0.0202 % + 4 mV<br>0.0202 % + 2 mV<br>0.0202 % + 2 mV<br>0.0352 % + 2 mV<br>0.1202 % + 2 mV<br>0.4002 % + 10 mV<br>1.5 % + 10 mV                |
| 100 V to 1000 V  | 1 Hz to 40 Hz<br>40 Hz to 1 kHz<br>1 k Hz to 20 kHz<br>20 kHz to 50 kHz<br>50 kHz to 100 kHz   | 0.0402 % + 40 mV<br>0.0402 % + 20 mV<br>0.0602 % + 20 mV<br>0.1202 % + 20 mV<br>0.3002 % + 20 mV  |
| J. AC Current Measuring<br>Instrument<br>0 μA to 100 μA        | 10 Hz to 20 Hz<br>20 Hz to 45 Hz<br>45 Hz to 100 Hz<br>100 Hz to 1 kHz   | 0.4005 % + 30 nA<br>0.1505 % + 30 nA<br>0.0605 % + 30 nA<br>0.0605 % + 30 nA  |
| 100 nA to 1 mA   | 10 Hz to 20 Hz<br>20 Hz to 45 Hz<br>45 Hz to 100 Hz<br>100 Hz to 5 k Hz<br>5 kHz to 20 k Hz<br>20 kHz to 50 kHz<br>50 kHz to 100 kHz   | 0.4005 % + 0.2 μA<br>0.1505 % + 0.2 μA<br>0.0605 % + 0.2 μA<br>0.0305 % + 0.2 μA<br>0.0605 % + 0.2 μA<br>0.4005 % + 0.4 μA<br>0.5505 % + 1.5 μA |
| 1 mA to 10 mA  | 10 Hz to 20 Hz<br>20 Hz to 45 Hz<br><br>45 Hz to 100 Hz<br>100 Hz to 5 kHz<br>5 kHz to 20 kHz<br>20 kHz to 50 kHz<br>50 kHz to 100 kHz | 0.4005 % + 2 μA<br>0.1505 % + 2 μA<br><br>0.0605 % + 2 μA<br>0.0305 % + 2 μA<br>0.0605 % + 2 μA<br>0.4005 % + 4 μA<br>0.5505 % + 15 μA          |

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|--|--|--|
| 10 mA to 100 mA  | 10 Hz to 20 Hz<br>20 Hz to 45 Hz<br>45 Hz to 100 Hz<br>100 Hz to 5 kHz<br>5 kHz to 20 kHz<br>20 kHz to 50 kHz<br>50 kHz to 100 kHz | 0.4005 % + 20 $\mu$ A<br>0.1505 % + 20 $\mu$ A<br>0.0605 % + 20 $\mu$ A<br>0.0305 % + 20 $\mu$ A<br>0.0605 % + 20 $\mu$ A<br>0.4005 % + 40 $\mu$ A<br>0.5505 % + 150 $\mu$ A |
| 100 mA to 1.00 A   | 10 Hz to 20 Hz<br>20 Hz to 45 Hz<br>45 Hz to 100 Hz<br>100 Hz to 5 k Hz<br>5 kHz to 20 k Hz<br>20 kHz to 50 k Hz                   | 0.4005 % + 200 $\mu$ A<br>0.1605 % + 200 $\mu$ A<br>0.0805 % + 200 $\mu$ A<br>0.1005 % + 200 $\mu$ A<br>0.3005 % + 200 $\mu$ A<br>1 % + 400 $\mu$ A                          |
| <b>K. Vertical Amplitude</b><br>Peak to Peak in 1 Mohm   |  |  |
| 40 $\mu$ V to 199.99 $\mu$ V   | 10 Hz to 10 kHz  | 1.0 % + 10 $\mu$ V   |
| 200 $\mu$ V to 0.999 mV  | 10 Hz to 10 kHz  | 0.25 % + 1 $\mu$ V   |
| 1 mV to 21 mV  | 10 Hz to 10 kHz  | 0.1 % + 15 $\mu$ V   |
| 21.001 mV to 556.00 mV   | 10 Hz to 10 kHz  | 0.1 % + 1 $\mu$ V  |
| 556.01 mV to 200 V   | 10 Hz to 10 kHz  | 0.05 % + 1 $\mu$ V   |
| <b>L. Time Base</b><br>450.50 ps to 55.0 s   |  | 0.25 ppm   |
| <b>M. Frequency Measurement</b><br>>0 Hz to 0.2 Hz<br>0.2 Hz to 2.7 GHz                          | 10 Hz to 0.2 Hz<br>0.2 Hz to 2.07 GHz  | 7 ppm<br>$5 \times 10^{-10}$ per year  |
| <b>N. Frequency Source</b><br>0.1 Hz to 11.9999 kHz<br>12.0 kHz to 3.2 GHz<br>100 kHz to 3.2 GHz | 0.1 Hz to 11.9999 kHz<br>12.0 kHz to 3.2 GHz<br>100 kHz to 3.2 GHz   | 3.0ppm<br>0.25 ppm<br>$5 \times 10^{-10}$ per year **  |

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|--|--|---|
| O. Amplitude/Power Level<br>Flatness<br>4.44 mV to 5.56 V<br>5.0 mV to 5.50 V<br>4.44 mV to 5.56 V<br>4.44 mV to 5.0 V<br>4.44 mV to 3.336 V<br>4.44 mV to 2.224 V | 0.1 kHz to 250 kHz<br>250 kHz to 100 MHz<br>100 MHz to 550 MHz<br>500 MHz to 1.1 GHz<br>1.1 GHz to 2.5 GHz<br>2.5 GHz to 3.2 GHz | 1.5%<br>1.0%<br>3.0%<br>4.0%<br>5.0%<br>5.0%                        |
| P. Rise Time<br>Source<br>Measure  | 15 ps<br>Above 17.5 ps   | 2 ps<br>4 ps  |

\* A reported uncertainty will be that for the instrument itself during calibration plus the appropriate measurement capability of the laboratory.

The uncertainties are based on an estimated confidence probability of not less than 95% unless otherwise stated.

\*\* Frequency source using 10 MHz External Reference frequency standard.

Approved signatories

Mr Gary Tan Tjiang Thung