



National Association for Proficiency Testing

A Non-Profit Organization Dedicated to Excellence in Metrology and Test Measurement

PRELIMINARY REPORT: NAPT-RRHT-100

This Preliminary Report documents the results for the ILC/PT listed below, covering all data presented to NAPT for evaluation by your organization. For tests with an established history, a Final Report will be issued after the 30 day review period expires. The Final Report will include a graphical representation of participants' values compared to the artifact mean and the values reported by the other participants.

Preliminary Results Reported To: **Digital Measurement Metrology**

Attention: Bassant Gobin
26 Automatic Road, Unit 4
Brampton, ON L6S 5N7

Date Of Preliminary Report: July 05, 2005

Date Of Participation in ILC/PT: May 23, 2005

ILC/PT NAME: NAPT-RRHT-100
Regional Site: Rockwell Hardness Tester

Discipline: Dimensional

Artifact Type: Hardness Tester

Manufacturer: Wilson

Model Number: 3JR

Serial Number: 3JR-5994

Data analysis of your reported values indicates that your organization performed **6 out of 6 measurements satisfactorily**. Please note that reference data is subject to change between issuance of Preliminary and Final Reports. If any data reported in this Preliminary Report is incorrect or if you would like to submit any revisions/corrections of your reported data, please contact us within 30 days.

All NAPT programs are conducted in accordance with ISO/IEC Guide 43-1 and ILAC G13:2000 requirements for proficiency testing providers. Please contact NAPT with any questions regarding this Preliminary Report.

Preliminary analysis of the data your organization submitted to NAPT is shown below. Reported values are compared against the reference value only. In the Final Report, your reported values will also be analyzed against the values reported by other participants enrolled in this ILC/PT.

Measurement Description	Reported Value Reference Value	Reported Uncertainty Reference Uncertainty	En	S/U
Dimensional				
40 POH - 1) 40-59 Rockwell B	42.50 POH 42.25	1.3 0.98	0.15	S
69 POH - 2) 69-79 Rockwell B	70.90 POH 71.05	1.3 0.9	0.09	S
80 POH - 3) 80-100 Rockwell B	80.70 POH 80.86	1.3 0.92	0.1	S
25 POH - 4) 25-30 Rockwell C	26.00 POH 25.58	1.3 0.89	0.27	S
35 POH - 5) 35-55 Rockwell C	36.10 POH 35.65	1.3 0.82	0.29	S
59 POH - 6) 59-65 Rockwell C	59.50 POH 59.41	1.3 0.76	0.06	S

NOTES:

1. Values may be rounded. Rounding does not affect data analysis and is for reporting purposes only
2. All uncertainties are at (or normalized to) K=2 (coverage factor associated with a 2-sigma, 95%, normal distribution)
3. $En = (\text{participant's reported value} - \text{reference value}) / \text{SQRT}(\text{participant's reported uncertainty}^2 + \text{reference uncertainty}^2)$
4. S/U: S (Satisfactory) = participant's computed En is within range of ±1; U (Unsatisfactory) = participant's computed En is outside range of ±1