Date. 2020 / 01, 10 Lab O: Ohms Law: Using a multimeter to perform voltage and current measurments on a resistir to find resistance via ohms law Practice Circuts: Measure resistance of the voltmeter Measured Value: O. 1 Ksz Measure resistance of the ammeter Megswad Value: O. IKIR (3) Start of Lab: Resistor Value on BreakBox: 470 ohms Accuracy (MA) Perisin Accomy (V) Persicion Current (mA) Voltage (N) uncertainty uncertain oncertainty uncertainty (0.02) 0.01 2.79 0.003 (0.01) 1.31 7.44 (0.06)0.01 3.50 (0.01) 6.009 0.00 8.99 0-01 (0.0) 4.26 0.01 0.08) 10.52 0.01 (0.01) 5.00 0.01 0-01 14.96 (0.1 5) 0.01 (0.02) 7.08 The following circut was wired V Circilia valves are greater uncertainties Referance Resistance Reading: 41312 12 Jeli得力

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Analysis Resistor: Find R by using R= I

1) R= 1.31V+ 0.01V

2.74mA = 0.02mA

R= 1.3N + 0.01V

2.79x10-3A + 0.01x10-3A

R= 1.31 V ± 0.76%

2-79×10-3A + 0.75%

R= 469.5312 ± \((0.75))2 + (0.76)2

R= 469.53 IL+ 1.07%

R = 469.53 12 ± 5.01 12

R= 470 R = 5 SL

For the remaining trials, we use the exact same method to attermine A with uncertainties

a) R= 470.43 R ± 0.85% R= 470 12 = 412

3) R= 473.8612 0.79% R= 473_12 = 412

4) R= 492.6012 ± 0.78% 1R= 49312 ± 412

5) R= 473.26_P= 0.80%

R= 4731 ± 41

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