

www.nts.com

National Technical Systems Environmental & Dynamics Lab 1601 Dry Creek Dr. #2000 Longmont, CO 80503 Main: 303-776-7249 Fax: 303-776-7314

Date: 27 SEPTEMBER 2017

Customer:

Pro V&V, Inc. 700 Boulevard South Suite 102 Huntsville, AL 35802

Purchase Order Number: 2017-007

A.	<u>TEST(S):</u>	Bench Handling, High Temp, Humidity, Low Temp, Temperature/Power Variation, Transportation Vibration
B.	<u>TEST ITEMS:</u>	One (1) each of the following: Dell All-In-One monitor, Oki Printer, Brother Printer, Dell Laptop, HP Printer. **Additional test items for Temperature/Power Variation testing are noted on page 2 and in with the respective test data** See page 2 for Test Item Identification
C.	SPECIFICATIONS:	1. Pro V&V SOW 2. ISO 17025:2005 3. MIL-STD 810D

D. <u>RESULTS:</u>

This is to certify that the UUTs (Unit Under Test) were subjected to the tests described above, according to the above specifications.

See Page 2 for Summary of Test Results. The UUTs were returned to Pro V&V for post tests and final evaluation.

Test data, an equipment list, and photographs are attached.

Sames

Kellie Barnes, Preparer



Bob Polverari, Technical Reviewer

John Radman, Independent Reviewer

This report and the information contained herein represents the results of testing of only those articles/products identified in this document and selected by the client. The tests were performed to specifications and/or procedures approved by the client. National Technical Systems ("NTS") makes no representations expressed or implied that such testing fully demonstrates efficiency, performance, reliability, or any other characteristic of the articles being tested, or similar products. This report should not be relied upon as an endorsement or certification by NTS of the equipment tested, nor does it present any statement whatsoever as to the merchantability or fitness of the test article or similar products for a particular purpose. This document shall not be reproduced except in full without written approval from NTS.



REVISIONS

Reason for Revision	Date		
Initial Release	10/06/2017		
Corrections to test items and test description	10/06/2017		
Correction to serial number per customer request	10/10/2017		
	Initial Release Corrections to test items and test description Correction to serial number per customer request		



TEST ITEM IDENTIFICATION

Quantity	Sample Description	Serial Number	
1	Dell All-In-One monitor Model 5250	6PW4GK2	
2 Oki Printer Model B432DNserial number		AK5B007647A0	
3	Brother Printer Model HL-L2340DW	U63879M4N628617	
4	Dell Laptop Model Inspiron 15 7000	8051YD2	
5	HP Printer Model HP200	TH74P4810X	

TEMPERATURE/POWER VARIATION TEST SAMPLE LISTING:

Component	Model #	Serial #	
Server	Dell T330	5712182	
Server	Dell T330	5PDECK2	
Monitor	Dell	HPW/D072	
Monitor	Dell	7818672	
TP Link Poutor		2166306000413	
Cisco 24 Port Switch	WS_C2960Y_24PS_I	ECW/2110A1E0	
TP-Link 8 Port Switch	TL_SG108F	216C319009010	
lanton	Dell 5580	BDH46H2	
Laptop	Dell 5580	8TM46H2	
Laptop	Dell 5580	40M46H2	
Laptop	Dell 5580	3004602	
Laptop	Dell 5580	EDM46H2	
Laptop	Dell 5580	4014012	
Laptop	Dell 5580	40/04612	
Laptop	Dell Jassision 15	3033012	
Laptop	Dell Inspirion 15	2001VD2	
Laptop	Dell Inspirion 15	20511D2 2351VD2	
Control Count Sconner	Euliteu 6800	2231102	
Central Count Scanner	Fujitsu 6800	A9HCC00543	
Central Count Scanner	Fujitsu 6800	A9HCC00555	
Central Count Scanner	Fujitsu 6400	AKHCC00609	
Central Count Scanner	Fujitsu 6400	AKHCC00337	
Central Count Scanner	Fujitsu 7180	A20DC10302	
Central Count Scanner	Fujitsu /180	A20DC10378	
Precinct Scanner	ClearCast	Cast00014	FAILED REMOVED FROM CHAMBER
Precinct Scanner	ClearCast	Cast00015	FAILED REMOVED FROM CHAMBER
Oki Printer	8432	AK5B007647A0	
Oki Printer	B432	AK76030928A0	
Brother Printer	HL-L2340-DW	063879M4N628617	
Brother Printer	HL-L2340-DW	U638/9A/N416353	
HP Printer	OFFICE JET 200	TH74P48110	FAILED REMOVED FROM CHAMBER
Minitower	Dell 3620	H0PZFK2	
Optiplex AIO	Dell 5250	6PW4GK2	
Optiplex AIO	Dell 5250	HGCMGK2	
Optiplex AIO	Dell 7440	JXDFDH2	
UPS	APC SMT1500	3S1525X07421	
UPS	APC SMT1500	3S1525X07452	
UPS	APC SMT2200	AS1721132721	
UPS	APC SMT2200	AS1638230963	

CBG Temp Power Hardware Testing Equipment



SUMMARY OF TEST RESULTS

Upon completion of testing, the test samples were removed from the corresponding test fixtures/chambers and subjected to a visual inspection. No anomalies were noted. The Test Samples were returned to Pro V&V Inc.

Bench Handling Testing

Testing was started and completed on 09 August 2017 by exposing one (1) of each test sample (see Test Item Identification table above), to Bench Handling testing. The samples were subjected to this testing in accordance with Pro V&V Inc. SOW.

The Test Samples were set on a bench and were subjected to 6 - 4" drops as follows:

- 1st Drop on front edge
- 2nd Drop on right edge
- 3rd Drop on left edge
- 4th Drop on back edge



High Temperature Testing

Testing was started and completed on 08 August 2017 by exposing one (1) of each test sample (see Test Item Identification table above), to High Temperature testing. The samples were subjected to this testing in accordance with MIL-STD 810D.

The test samples were packaged in their shipping boxes and placed in the thermal chamber. Temperature was ramped to 60C with a 6 hour dwell. Temperature was then returned to ambient.

Humidity Testing

Testing was started and completed on 07 August 2017 by exposing one (1) of each test sample (see Test Item Identification table above), to Humidity testing. The samples were subjected to this testing in accordance with MIL-STD 810D.

The test samples were packaged in their shipping boxes, placed in the thermal chamber and exposed to 10 humidity cycles.

Low Temperature Testing

Testing was started and completed on 08 August 2017 by exposing one (1) of each test sample (see Test Item Identification table above), to Low Temperature testing. The samples were subjected to this testing in accordance with MIL-STD 810D.

The test samples were packaged in their shipping boxes and placed in the thermal chamber. Temperature was ramped to -20C with a 6 hour dwell. Temperature was then returned to ambient.



Temperature /Power Variation Testing

Testing was started on 28 August and completed on 01 September 2017 by exposing one (1) of each test sample (see Test Item Identification table above), to Power Variation testing. The samples were subjected to this testing in accordance with MIL-STD 810D.

The test samples were placed in the chamber at 10C and were exposed to voltage and temperature variances with a 4 hour dwell per sequence noting that the power varies every 4 hours for two (2) 24 hour cycles, with the temperature varying every 12 hours for two (2) 24 hour cycles. Sequence: start at 105 Vac, raise to 129 Vac, lower to 117 Vac and 23C, raise chamber to 35C, dwell 4 hours, repeat sequence.

Transportation Vibration Testing

Testing was started and completed on 15 August 2017 by exposing one (1) of each test sample (see Test Item Identification table above), to Transportation Vibration testing. The samples were subjected to this testing in accordance with MIL-STD 810D.

The Test Samples were packaged in their shipping boxes, secured to an electro-dynamic shaker and exposed to the random vibration test in each of the three (3) axes (Vertical, Transverse and Longitudinal). Vertical was exposed to 1.044 gRMS random vibration, Transverse was exposed to 0.2 gRMS random vibration and Longitudinal was exposed to 0.74 gRMS random vibration, each for a duration of 30 minutes.



Bench Ha<mark>ndling</mark>



Test Setup Dell All-In-One monitor Model 5250





Drop fixture block



Test Setup Oki Printer Model B432DN





Test Setup Brother Printer HL-L2340DW

	M		
	Pro V&V Job Number	01-01-CBG-001	1
	Manufacturer	Clear Ballot Group	
and the second second	System Name	ClearVote 1.4	11/1
	Equipment Clear Access	Dell Alo S250 DK: B432dA Dell 15 7000 DK: B432dA Dell 15 7000 SK: 05 HP Nobile 200 Borthan Printer - HL-L2340 DW Dell Alo - 6 Phyt GK2 Dell Inftop	- To-
	Senai Number(s)	DE: - SAK SB 0076478617	
	Date Test	Bench Handling 8/9/17 Brover	
122 /1 m m m			
Red .	i.		-
And the second design of the s			
A CONTRACTOR OF THE OWNER			

Test Setup Dell Laptop Inspiron 15 7000



	Pro V&V Job Number	01-01-CBG-001	
	Manufacturer	Clear Ballot Group	
	System Name	ClearVote 1.4	THEFT AND
	Equipment Clear Access	Dell A10 5250 OK; B432da Dell 15 7000 Series HP Nobile 200 Brother Printer HL-1 2340 DW	ALL C
	Serial Number(s)	Dell Alo - 6 PW4GK2 Dell laptop Brither . Ub3879 M4, 80 SIX D2 DE: - SAK SB0076472 6617	the section
	Date	HP - TH 74P4 \$10 X	
	1631	Bench Handling 8/9/17 PROVEV	
Prove A		SIP Office 141 202 Monthle Strates	
	And a state of the second s		

Test Setup HP Printer Model HP200



High Temperature



Test Setup – High Temp.





Humidity



Test Setup – Humidity



MIL-STD-810 19 July 198	D 3 TABLE 507.2-I. High-humidity diurnal categories.1/
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
	Humidity Profile





Humidity Graph



Low Temperature



Test Setup Low Temp.



Low Temp Graph



Temperature/Power Variation



Test Setup

Temperature/Power Variation Test





CBG Temp Power Hardware Testing Equipment

ServerDell T3305712/42ServerDell T330578/FGK2MonitorDellHWX0072MonitorDell781/672TP-Link RouterTL-R600/VPN216630000113Cisco 24 Port SwitchWS-C2960X-24PS-LFCW2110A1E0TP-Link RouterTL-SG108E216C31909010LaptopDell 5580BDH46H2LaptopDell 55804PM46H2LaptopDell 55804PM46H2LaptopDell 558090356H2LaptopDell 558090356H2LaptopDell 558090356H2LaptopDell Inspirion 157TTYD2LaptopDell Inspirion 152251YD2Central Court ScannerFujitsu 6800A9HCC00543Central Court ScannerFujitsu 6400AKHCC00509Central Court ScannerFujitsu 7180A2D0C10378Precint ScannerFujitsu 7180A1ED REMOVED F	Component	Model #	<u>Serial #</u>	
ServerDell 1330SRRFGK2MonitorDellHPWD072MonitorDell7316672TP-Link RouterTL-RG00VPN216630600413Cisco 24 Port SwitchWS-C2960X-24PS-LFCW2110A1E0TP-Link 8 Port SwitchTL-SG108E216C319009010LaptopDell 55808DH46H2LaptopDell 55803CH46H2LaptopDell 55803CH46H2LaptopDell 55809036H2LaptopDell 55809036H2LaptopDell 558090365H2LaptopDell Inspirion 152711YD2LaptopDell Inspirion 152251YD2LaptopDell Inspirion 152251YD2LaptopDell Inspirion 152251YD2LaptopDell Inspirion 152251YD2Central Court ScannerFujitsu 6400AKHCC00635Central Court ScannerFujitsu 6400AKHCC00378Prednet ScannerFujitsu 7180A200C10378Prednet ScannerFujitsu 7180A7603092840	Server	Dell T330	5712JK2	
MonitorDellHPWD072MonitorDell7818672TP-Link RouterTL-R600VPN216630600413Cisco 24 Port SwitchWS-C2960X-24PS-LFCW2110A1E0TP-Link Port SwitchTL-SC108E21631009010LaptopDell SS80BDH46H2LaptopDell SS803CH46H2LaptopDell SS8040M46H2LaptopDell SS8040M46H2LaptopDell SS8090356H2LaptopDell SS8090356H2LaptopDell SS8090356H2LaptopDell Inspirion 157TT1YD2LaptopDell Inspirion 1522S1YD2Central Count ScannerFujitsu 6800A9HCC00543Central Count ScannerFujitsu 6400AKHCC00699Central Count ScannerFujitsu 6400AKHCC00509Central Count ScannerFujitsu 7180A20DC10378Precint ScannerClearCastCast00015Precint ScannerClearCastCast00015Precint ScannerClearCastCast00015Precint ScannerClearCastCast0015Precint ScannerClearCastCast0015Precint ScannerClearCastCast0015Precint ScannerClearCastCast0015Precint ScannerClearCastCast0015Oki PrinterB432AK5603928A0Brother PrinterHL-12340-DWUG3879M4N628617Brother PrinterHL-12340-DWUG3879M4N628617Brother PrinterHL-12340-DWUG3879M4N628617 <t< td=""><td>Server</td><td>Dell T330</td><td>5RRFGK2</td><td></td></t<>	Server	Dell T330	5RRFGK2	
Monitor Dell 7818672 TP-Link Router TL-R600VPN 2166306000133 Cisco 24 Port Switch VIS-C2960X-24P5-L FCW2110A1E0 TP-Link R Port Switch TL-S6108E 216C319009010 Laptop Dell SS0 8TM46H2 Laptop Dell SS0 8TM46H2 Laptop Dell SS0 3CM46H2 Laptop Dell SS0 4DM46H2 Laptop Dell SS0 4DM46H2 Laptop Dell SS0 400M46H2 Laptop Dell SS0 9356H2 Laptop Dell Inspirion 15 8051VD2 Laptop Dell Inspirion 15 2251VD2 Central Count Scanner Fujitsu 6800 AH4C00535 Central Count Scanner Fujitsu 6400 AKHC000337 Central Count Scanner Fujitsu 7180 A20DC10302 Central Count Scanner Fujitsu 7180 A20DC10362 Precint Scanner ClearCast Cast00014 Precint Scanner ClearCast Cast00015 Precint Scanner ClearCast <td>Monitor</td> <td>Dell</td> <td>HPWD072</td> <td></td>	Monitor	Dell	HPWD072	
TP-Link Router TL-R600VPN 216306000413 Cisco 24 Port Switch WS-C2960X-24PS-L FCW2110A1E0 Laptop Dell SS0 8DH46H2 Laptop Dell SS0 8TM46H2 Laptop Dell SS0 8TM46H2 Laptop Dell SS0 3CH46H2 Laptop Dell SS0 3CH46H2 Laptop Dell SS0 3CH46H2 Laptop Dell SS0 3CH46H2 Laptop Dell SS0 4QM46H2 Laptop Dell SS0 4QM46H2 Laptop Dell Inspirion 15 7UTSV2 Laptop Dell Inspirion 15 80S1YD2 Laptop Dell Inspirion 15 22S1YD2 Central Count Scanner Fujitsu 6400 AKHCC00337 Central Count Scanner Fujitsu 6400 AKHCC00337 Central Count Scanner Fujitsu 7180 A200C10378 Precinct Scanner ClearCast Cast00015 FAILED REMOVED FROM CHAMBER Precinct Scanner ClearCast Cast0015 FAILED REMOVED FROM CHAMBER	Monitor	Dell	7818672	
Cisco 24 Port Switch WS-C2960X-24P5-L FCW2110A1E0 TP-Link 8 Port Switch TL-SG108E 216G319009010 Laptop Dell 5580 BDH46H2 Laptop Dell 5580 8TM46H2 Laptop Dell 5580 3CH46H2 Laptop Dell 5580 3CH46H2 Laptop Dell 5580 4QM46H2 Laptop Dell 5580 4QM46H2 Laptop Dell 5580 90356H2 Laptop Dell Inspiron 15 7TT1VD2 Laptop Dell Inspiron 15 80631YD2 Laptop Dell Inspiron 15 2251YD2 Central Count Scanner Fujitsu 6800 A9HCC00535 Central Count Scanner Fujitsu 6400 AKHCC00609 Central Count Scanner Fujitsu 7180 A20DC10378 Precinct Scanner Fujitsu 780 A20DC10378 Precinct Scanner ClearCast Cast00015 FAILED REMOVED FROM CHAMBER Oki Printer B432 AK76030928A0 FAILED REMOVED FROM CHAMBER Oki Printer B432 AK7603092	TP-Link Router	TL-R600VPN	2166306000413	
TP-Link 8 Port SwitchTL-SG108E216G31009010LaptopDell 55808DH46H2LaptopDell 55804PM46H2LaptopDell 55803CH46H2LaptopDell 5580FPM46H2LaptopDell 55804QM46H2LaptopDell 55804QM46H2LaptopDell 55804QM46H2LaptopDell 558090356H2LaptopDell Inspirion 157TT1VD2LaptopDell Inspirion 158051VD2LaptopDell Inspirion 152251VD2Central Court ScannerFujitsu 6800A9HCC00543Central Court ScannerFujitsu 6400AKHCC00639Central Court ScannerFujitsu 6400AKHCC00337Central Court ScannerFujitsu 7180A20DC10378Precinct ScannerFujitsu 7180A20DC10378Precinct ScannerClearCastCast00014Precinct ScannerClearCastCast00015Precinct ScannerB432AK76030928A0Brother PrinterHL-12340-DWU63879A7N416353Oki PrinterB432H276030928A0Brother PrinterDFIC JET 200TH74P48110MinitowerDell 5250PUIOptiplex AIODell 5250Optiplex AIODell 5250Optiplex AIODell 5250Optiplex AIODell 5250Optiplex AIODell 5250Optiplex AIODell 7440JX5FDH2JX5FDH2UPSAPC SMT1500S1525X07421UPSUPS <td< td=""><td>Cisco 24 Port Switch</td><td>WS-C2960X-24PS-L</td><td>FCW2110A1E0</td><td></td></td<>	Cisco 24 Port Switch	WS-C2960X-24PS-L	FCW2110A1E0	
LaptopDell 5580BDH46H2LaptopDell 55808TM46H2LaptopDell 55803CH46H2LaptopDell 5580FPM46H2LaptopDell 558090356H2LaptopDell 558090356H2LaptopDell 558090356H2LaptopDell Inspirion 157TT1V02LaptopDell Inspirion 152251YD2Central Court ScannerFujitsu 6800A9HCC00543Central Court ScannerFujitsu 6800A8HCC00693Central Court ScannerFujitsu 6400AKHCC00609Central Court ScannerFujitsu 6400ACMCC00337Central Court ScannerFujitsu 7180A20DC10302Central Court ScannerFujitsu 7180A20DC10378Precint ScannerClearCastCast00014Precint ScannerClearCastCast00015Precint ScannerClearCastCast00014Precint ScannerHL-12340-DWU63879MAN262617Oki PrinterB432AK56007647A0Oki PrinterB432AK7603028A0Precint ScannerFLIED REMOVED FROM CHAMBERPrecint ScannerClearCastCast00015FAILED REMOVED FROM CHAMBERFAILED REMOVED FROM CHAMBERPrecint ScannerClearCastCast0015Oki PrinterB432AK56007647A0Oki PrinterB432Gast70MAI6253HP PrinterDEI 52506PW46K2Optiplex AIODell 52506PW46K2Optiplex AIODell 52506PW46K2Optiple	TP-Link 8 Port Switch	TL-SG108E	216C319009010	
LaptopDell 5580STM46H2LaptopDell 55804PM46H2LaptopDell 55803CH46H2LaptopDell 55804QM46H2LaptopDell 558090356H2LaptopDell Inspirion 157TT1YD2LaptopDell Inspirion 158051YD2Central Court ScannerFujitsu 6800A9HCC00543Central Court ScannerFujitsu 6800A9HCC00543Central Court ScannerFujitsu 6800A9HCC00543Central Court ScannerFujitsu 6800A20DC10302Central Court ScannerFujitsu 6800A20DC10302Central Court ScannerFujitsu 7180A20DC10302Central Court ScannerFujitsu 7180A20DC10378Precinct ScannerClearCastCast00015Precinct ScannerClearCastCast00015Precinct ScannerClearCastCast00015Precinct ScannerB432AK56030928A0Brother PrinterHL12340-DWU63879A7N416353HP PrinterOFICE JET 200H0PZFK2Optiplex AIODell 52506PW46K2Optiplex AIODell 52506PW46K2Optiplex AIODell 5250APC SMT1500Optiplex AIODell 5250APC SMT1500UPSAPC SMT150031525X07421UPSAPC SMT1200AS152320963	Laptop	Dell 5580	BDH46H2	
LaptopDell 55804PM46H2LaptopDell 55803CH46H2LaptopDell 55804QM46H2LaptopDell 55804QM46H2LaptopDell 55803035H2LaptopDell Inspirion 157TT1VD2LaptopDell Inspirion 158051YD2LaptopDell Inspirion 152251YD2Central Count ScannerFujitsu 6800A9HCC00535Central Count ScannerFujitsu 6800AHCC00693Central Count ScannerFujitsu 7180A200C10302Central Count ScannerFujitsu 7180A200C10378Precinct ScannerClearCastCast00014Precinct ScannerClearCastCast00015Precinct ScannerClearCastCast00015Precinct ScannerClearCastCast00015Precinct ScannerB432AK58007647A0Oki PrinterB432AK58007647A0Oki PrinterHL2340-DWU63879MAN628617Brother PrinterHL12340-DWU63879MAN628617Brother PrinterHL12340-DWU63879MAN628617Brother PrinterHL12340-DWU63879MAN628617Brother PrinterHL12340-DWU63879MAN628617Brother PrinterHL12340-DWU63879MAN628617Dytiplex AIODell 52506PW4GK2Optiplex AIODell 52504PW4GK2Optiplex AIODell 52504PW4GK2Optiplex AIODell 52504PW4GK2Optiplex AIODell 52504PW4GK2Optiplex AIODell 52504PW4GK2	Laptop	Dell 5580	8TM46H2	
LaptopDell 55803CH46H2LaptopDell 5580PM46H2LaptopDell 558090356H2LaptopDell Inspirion 157TT1YD2LaptopDell Inspirion 158051YD2LaptopDell Inspirion 152251YD2Central Court ScannerFujitsu 6800A9HCC00543Central Court ScannerFujitsu 6800A8HCC00593Central Court ScannerFujitsu 6400AKHCC00609Central Court ScannerFujitsu 7180A20DC10302Central Court ScannerFujitsu 7180A20DC10302Central Court ScannerClearCastCast00014Precinct ScannerClearCastCast00015Precinct ScannerClearCastCast00015Precinct ScannerClearCastCast00015Precinct ScannerClearCastCast00014Precinct ScannerClearCastCast00015Precinct ScannerClearCastCast00015Precinct ScannerClearCastCast00014Precinct ScannerClearCastCast00015Precinct ScannerClearCastCast00015Precinct ScannerClearCastCast00014Precinct ScannerClearCastCast00014Precinct ScannerClearCastCast00014Precinct ScannerClearCastCast00014Precinct ScannerDell 5230PGHENObit PrinterHL-12340-DWU63879MA1628617Brother PrinterHL-12340-DWU63879A7N416353HP PrinterDell 5250PW4GK2O	Laptop	Dell 5580	4PM46H2	
LaptopDell SS80FPM46H2LaptopDell SS804QM46H2LaptopDell SS8090356H2LaptopDell Inspirion 157TT1YD2LaptopDell Inspirion 158051YD2Central Count ScannerFujitsu 6800A9HCC00535Central Count ScannerFujitsu 6800A4HCC00609Central Count ScannerFujitsu 7180A20DC10378Central Count ScannerFujitsu 7180A20DC10378Central Count ScannerFujitsu 7180A20DC10378Central Count ScannerClearCastCast00015Prechct ScannerClearCastCast00015Prechct ScannerB432AKF8007647A0Oki PrinterB432AK76030928A0Brother PrinterHL-L2340-DWU63879M4N628617Brother PrinterOHI S250FW46K2Optiplex AIODell S250FW46K2Optiplex AIODell S250FW46K2Optiplex AIODell S250WK4K2Optiplex AIODell S250S5125807421UPSAPC SMT150035152507452UPSAPC SMT1500A5172132721	Laptop	Dell 5580	3CH46H2	
LaptopDell 55804QM46H2LaptopDell 558090356H2LaptopDell Inspirion 157TT1VD2LaptopDell Inspirion 158051YD2Central Count ScannerFujitsu 6800A9HCC00543Central Count ScannerFujitsu 6800A9HCC00535Central Count ScannerFujitsu 6800A9HCC00537Central Count ScannerFujitsu 6400AKHCC00609Central Count ScannerFujitsu 7180A20DC10302Central Count ScannerFujitsu 7180A20DC10302Central Count ScannerClearCastCast00014FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00014FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00014FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00014FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBERPrecinct ScannerBrother PrinterHL-12340-DWU63879M4N528617Brother PrinterHL-12340-DWU63879A7N416353HP PrinterDell 3520HPOFK2Optiplex AIODell 3520HPOFK2Optiplex AIODell 3520S1525X07421UPSAPC SMT1500351525X07451UPSAPC SMT150	Laptop	Dell 5580	FPM46H2	
LaptopDell 558090356H2LaptopDell Inspirion 157TT1YD2LaptopDell Inspirion 158051YD2LaptopDell Inspirion 152251YD2Central Count ScannerFujitsu 6800A9HCC00543Central Count ScannerFujitsu 6800ASHCC00609Central Count ScannerFujitsu 6400AKHCC00637Central Count ScannerFujitsu 7180A20DC10302Central Count ScannerFujitsu 7180A20DC10378Precinct ScannerClearCastCast00014FAILED REMOVED FROM CHAMBER Precinct ScannerOki PrinterB432AK58007647A0Oki PrinterB432AK76030928A0Brother PrinterHL-L2340-DWU63879A7N416353MinitowerDell 5250FAILED REMOVED FROM CHAMBER Precinct AIDMinitowerDell 5250FAILED REMOVED FROM CHAMBER Precinct ScannerOptiplex AIODell 5250FAILED REMOVED FROM CHAMBER Precinct ScannerUPSAPC SMT1500351525X07451UPSAPC SMT1500351525X07452UPSAPC SMT1500351525X07452UPSAPC SMT15200A5153230963	Laptop	Dell 5580	4QM46H2	
LaptopDell Inspirion 157TT1YD2LaptopDell Inspirion 158051YD2LaptopDell Inspirion 152251YD2Central Count ScannerFujitsu 6800A9HCC00533Central Count ScannerFujitsu 6400AKHCC00609Central Count ScannerFujitsu 6400AKHCC00637Central Count ScannerFujitsu 7180A20DC10302Central Count ScannerFujitsu 7180A20DC10378Central Count ScannerClearCastCast00014Precinct ScannerClearCastCast00015Precinct ScannerClearCastCast00015Oki PrinterB432AK76030928A0Brother PrinterHL-L2340-DWU63879M4N628617Oki PrinterDell 3620H0PZFk2Optiplex AIODell 3520EW46K2Optiplex AIODell 3520FUISU 7400UPSAPC SMT1500351525X07421UPSAPC SMT1500A51638230963	Laptop	Dell 5580	90356H2	
LaptopDell Inspirion 1580S1YD2LaptopDell Inspirion 1522S1YD2Central Count ScannerFujitsu 6800A9HCC00543Central Count ScannerFujitsu 6800A9HCC00535Central Count ScannerFujitsu 6400AKHCC00337Central Count ScannerFujitsu 7180A20DC10302Central Count ScannerFujitsu 7180A20DC10378Central Count ScannerClearCastCast00014Precinct ScannerClearCastCast00015Precinct ScannerClearCastCast00015Oki PrinterB432AKSB07647A0Oki PrinterB432AKSB0398A0Brother PrinterHL-12340-DWU63879MAIN628617MinitowerDell 52506PWGK2Optiplex AIODell 52506PWGK2Optiplex AIODell 5250GPWGK2UPSAPC SMT150035152507421UPSAPC SMT1500AS15323063	Laptop	Dell Inspirion 15	7TT1YD2	
LaptopDell Inspirion 1522S1YD2Central Count ScannerFujitsu 6800A9HCC00543Central Count ScannerFujitsu 6800A9HCC00535Central Count ScannerFujitsu 6400AKHCC00609Central Count ScannerFujitsu 6400AKHCC00337Central Count ScannerFujitsu 7180A20DC10302Central Count ScannerFujitsu 7180A20DC10378Precinct ScannerClearCastCast00014FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBEROki PrinterB432AKSB007647A0HAILED REMOVED FROM CHAMBEROki PrinterB432AKSB007647A0HAILED REMOVED FROM CHAMBERBrother PrinterHL-L2340-DWU63879A7N416353H P PrinterOFFICE JET 200TH74P48110MinitowerDell 32506PW4GK2Optiplex AIODell 5250Optiplex AIODell 5250UPSAPC SMT15003S1525X07421UPSAPC SMT1500AS15225X07452UPSAPC SMT1500AS1525X07452UPSAPC SMT1500AS1638230963	Laptop	Dell Inspirion 15	80S1YD2	
Central Count ScannerFujitsu 6800A9HCC00543Central Count ScannerFujitsu 6400A4HCC00535Central Count ScannerFujitsu 6400AKHCC00307Central Count ScannerFujitsu 1800A20DC10302Central Count ScannerFujitsu 7180A20DC10378Central Count ScannerClearCastCast00014FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBEROki PrinterB432AKSB007647A0ClearCastOki PrinterB432AK76030928A0FAILED REMOVED FROM CHAMBERBrother PrinterHL-L2340-DWUG3879M4N628617Brother PrinterOFFICE JET 200TH74P48110MinitowerDell 3620H0PZFK2Optiplex AIODell 5250Optiplex AIODell 5250UPSAPC SMT15003S152S707421UPSAPC SMT1200AS1721132721UPSAPC SMT12200AS1638230963	Laptop	Dell Inspirion 15	22S1YD2	
Central Count ScannerFujitsu 6800A9HCC00535Central Count ScannerFujitsu 6400AKHCC00609Central Count ScannerFujitsu 6400AKHCC00377Central Count ScannerFujitsu 7180A20DC10302Central Count ScannerFujitsu 7180A20DC10378Precinct ScannerClearCastCast00014FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBEROki PrinterB432AK5B007647A0Oki PrinterB432AK7603928A0Brother PrinterHL-L2340-DWU63879M4N628617Brother PrinterHL-L2340-DWU63879A7N416353HP PrinterOEII S250GPW4GK2Optiplex AIODell S2506PW4GK2Optiplex AIODell S2503S1525X07421UPSAPC SMT15003S1525X07452UPSAPC SMT1500AS1721132721UPSAPC SMT2200AS1638230963	Central Count Scanner	Fujitsu 6800	A9HCC00543	
Central Count ScannerFujitsu 6400AKHCC00609Central Count ScannerFujitsu 7180A20DC10302Central Count ScannerFujitsu 7180A20DC10378Precinct ScannerClearCastCast00014FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBEROki PrinterB432AKSB007647A0Oki PrinterB432AK76030928A0Brother PrinterHL-L2340-DWU63879AM4N628617Brother PrinterHL-L2340-DWU63879A7A16353HP PrinterOFFICE JET 200TH74P48110MinitowerDell 3620HOPZFK2Optiplex AIODell 52506PW4GK2Optiplex AIODell 7440JXDFDH2UPSAPC SMT1500351525X07421UPSAPC SMT15200AS152132721UPSAPC SMT2200AS1638230963	Central Count Scanner	Fujitsu 6800	A9HCC00535	
Central Count ScannerFujitsu 6400AKHCC00337Central Count ScannerFujitsu 7180A20DC10302Central Count ScannerFujitsu 7180A20DC10378Precinct ScannerClearCastCast00014FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBEROki PrinterB432AK58007647A0Oki PrinterB432AK56030928A0Brother PrinterHL-L2340-DWU63879M4N628617Brother PrinterHL-L2340-DWU63879A7N416353HP PrinterOFFICE JET 200TH74P48110MinitowerDell 3620H0PZFK2Optiplex AIODell 52506PW4GK2Optiplex AIODell 7440JXDFDH2UPSAPC SMT15003S1525X07421UPSAPC SMT1500AS15232721UPSAPC SMT2200AS1638230963	Central Count Scanner	Fujitsu 6400	AKHCC00609	
Central Count ScannerFujitsu 7180A20DC10302Central Count ScannerFujitsu 7180A20DC10378Precinct ScannerClearCastCast00014FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBEROki PrinterB432AK5B007647A0Oki PrinterB432AK76030928A0Brother PrinterHL-L2340-DWUG3879M4N628617Brother PrinterHL-L2340-DWUG3879A7N416353HP PrinterOFFICE JET 200TH74P48110MinitowerDell 3620H0PZFK2Optiplex AIODell 52506PW4GK2Optiplex AIODell 7440JXDFDH2UPSAPC SMT1500351525X07421UPSAPC SMT1500A51721132721UPSAPC SMT2200A51638230963	Central Count Scanner	Fujitsu 6400	AKHCC00337	
Central Count ScannerFujitsu 7180A20DC10378Precinct ScannerClearCastCast00014FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBEROki PrinterB432AKS8007647A0Oki PrinterB432AK76030928A0Brother PrinterHL-L2340-DWUG3879A7N416353Brother PrinterHL-L2340-DWUG3879A7N416353HP PrinterOFFICE JET 200TH74P48110MinitowerDell 3620H0PZFK2Optiplex AIODell 5250Optiplex AIODell 7440JXDFDH2UPSAPC SMT1500351525X07421UPSAPC SMT2200AS1638230963	Central Count Scanner	Fujitsu 7180	A20DC10302	
Precinct ScannerClearCastCast00014FAILED REMOVED FROM CHAMBERPrecinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBEROki PrinterB432AK5B007647A0Oki PrinterB432AK76030928A0Brother PrinterHL-L2340-DWUG3879A7N416353Brother PrinterHL-L2340-DWUG3879A7N416353HP PrinterOFFICE JET 200TH74P48110MinitowerDell 3620H0PZFK2Optiplex AIODell 5250GPW4GK2Optiplex AIODell 7440JXDFDH2UPSAPC SMT1500351525X07421UPSAPC SMT2200AS1638230963	Central Count Scanner	Fujitsu 7180	A20DC10378	
Precinct ScannerClearCastCast00015FAILED REMOVED FROM CHAMBEROki PrinterB432AK5B007647A0Oki PrinterB432AK76030928A0Brother PrinterHL-L2340-DWU63879M4N628617Brother PrinterHL-L2340-DWU63879A7N416353HP PrinterOFFICE JET 200TH74P48110MinitowerDell 3620H0PZFK2Optiplex AIODell 52506PW46K2Optiplex AIODell 7440JXDFDH2UPSAPC SMT1500351525X07421UPSAPC SMT1500A51721132721UPSAPC SMT2200A51638230963	Precinct Scanner	ClearCast	Cast00014	FAILED REMOVED FROM CHAMBER
Oki Printer B432 AKSB007647A0 Oki Printer B432 AK76030928A0 Brother Printer HL-L2340-DW U63879M4N628617 Brother Printer HL-L2340-DW U63879A7N416353 HP Printer OFFICE JET 200 TH74P48110 Minitower Dell 3620 H0PZFK2 Optiplex AIO Dell 5250 GPZFK2 Optiplex AIO Dell 7400 JXDFDH2 UPS APC SMT1500 351525X07421 UPS APC SMT2200 AS1721132721 UPS APC SMT2200 AS1638230963	Precinct Scanner	ClearCast	Cast00015	FAILED REMOVED FROM CHAMBER
Oki Printer B432 AK76030928A0 Brother Printer HL-L2340-DW U63879M4N628617 Brother Printer HL-L2340-DW U63879A7N416353 HP Printer OFFICE JET 200 TH74P48110 Minitower Dell 3620 H0PZFK2 Optiplex AIO Dell 5250 6PW4GK2 Optiplex AIO Dell 7400 JXDFDH2 UPS APC SMT1500 351525X07421 UPS APC SMT1500 A51721132721 UPS APC SMT2200 A51638230963	Oki Printer	B432	AK5B007647A0	
Brother Printer HL-L2340-DW UG3879M4N628617 Brother Printer HL-L2340-DW UG3879A7N416353 HP Printer OFFICE JET 200 TH74P48110 Minitower Dell 3620 H0PZFK2 Optiplex AIO Dell 5250 6PW4GK2 Optiplex AIO Dell 5250 0 Optiplex AIO Dell 7440 JXDFDH2 UPS APC SMT1500 351525X07421 UPS APC SMT1500 351525X07452 UPS APC SMT2200 AS1721132721 UPS APC SMT2200 AS1638230963	Oki Printer	B432	AK76030928A0	
Brother Printer HL-L2340-DW U63879A7N416353 HP Printer OFFICE JET 200 TH74P48110 Minitower Dell 3620 H0PZFK2 Optiplex AIO Dell 5250 6PW4GK2 Optiplex AIO Dell 5250 0 Optiplex AIO Dell 7440 JXDFDH2 UPS APC SMT1500 351525X07421 UPS APC SMT1500 351525X07452 UPS APC SMT2200 AS1721132721 UPS APC SMT2200 AS1638230963	Brother Printer	HL-L2340-DW	U63879M4N628617	
HP Printer OFFICE JET 200 TH74P48110 Minitower Dell 3620 H0PZFK2 Optiplex AIO Dell 5250 6PW4GK2 Optiplex AIO Dell 5250 Optiplex AIO Dell 7440 JXDFDH2 UPS APC SMT1500 3S1525X07421 UPS APC SMT1500 AS1525X07452 UPS APC SMT2200 AS1721132721 UPS APC SMT2200 AS1638230963	Brother Printer	HL-L2340-DW	U63879A7N416353	
Minitower Dell 3620 H0PZFK2 Optiplex AIO Dell 5250 6PW4GK2 Optiplex AIO Dell 5250 0 Optiplex AIO Dell 7440 JXDFDH2 UPS APC SMT1500 3S1525X07421 UPS APC SMT1500 3S1525X07452 UPS APC SMT2200 AS1721132721 UPS APC SMT2200 AS1638230963	HP Printer	OFFICE JET 200	TH74P48110	
Optiplex AIO Dell 5250 6PW4GK2 Optiplex AIO Dell 5250 Optiplex AIO Dell 7440 JXDFDH2 UPS APC SMT1500 3S1525X07421 UPS APC SMT1500 3S1525X07452 UPS APC SMT2200 AS1721132721 UPS APC SMT2200 AS1638230963	Minitower	Dell 3620	H0PZFK2	
Optiplex AIO Dell 5250 Optiplex AIO Dell 7440 JXDFDH2 UPS APC SMT1500 3S1525X07421 UPS APC SMT1500 3S1525X07452 UPS APC SMT200 AS1721132721 UPS APC SMT2200 AS1638230963	Optiplex AIO	Dell 5250	6PW4GK2	
Optiplex AIO Dell 7440 JXDFDH2 UPS APC SMT1500 3S1525X07421 UPS APC SMT1500 3S1525X07452 UPS APC SMT2200 AS1721132721 UPS APC SMT2200 AS1638230963	Optiplex AIO	Dell 5250		
UPS APC SMT1500 3S1525X07421 UPS APC SMT1500 3S1525X07452 UPS APC SMT2200 AS1721132721 UPS APC SMT2200 AS1638230963	Optiplex AIO	Dell 7440	JXDFDH2	
UPS APC SMT1500 351525X07452 UPS APC SMT2200 A51721132721 UPS APC SMT2200 A51638230963	UPS	APC SMT1500	3S1525X07421	
UPS APC SMT2200 AS1721132721 UPS APC SMT2200 AS1638230963	UPS	APC SMT1500	3S1525X07452	
UPS APC SMT2200 AS1638230963	UPS	APC SMT2200	AS1721132721	
	UPS	APC SMT2200	AS1638230963	



Transportation Vibration



Vertical Axis



Longitudinal Axis





Transverse Axis

ro V&V Number	01-01-CBG-001	
ufacturer	Clear Ballot Group	
em Name	ClearVote 1.4	
uipment	ClearAccess: Dell Inspiron 15 7000 series, Dell AIO 5250, Brother Printer HL-L2340DW, Oki Printer B432, HP Printer Mobile 200	
Number(s)	Dell 5250 - 7TT1YD2, Dell 7000 - 8051YD2 Brother - U63879M4N628612, Oki - AK5B007647A0, HP - TH74P4810X	H
Date	08/15/17	1
rest	Vibration	-
	PRO V&V	













Vibration Test



EQUIPMENT LIST

Test	Equ	ipment	List
------	-----	--------	------

ID Number	Manufacturer	Model #	Serial #	Description	Cal Date	Cal Due
Tumber						
			Bench Handlin	g Test		
n/a	n/a	n/a	n/a Wood block table n/a			
n/a	n/a	n/a	n/a	Ruler	n/a	
			High Temp	Test	-	
1642	Thermotron	8800		Controller	8/17/16	8/17/18
			HumidityTe	est	-	
1642	Thermotron	8800		Controller	8/17/16	8/17/18
			Low Temp	lest .		
1642	Thermotron	8800		Controller	8/17/16	8/17/18
			Power Variatio	n Test	-	
1642	Thermotron	8800		Controller	8/17/16	8/17/18
112204	HP	34401A		Volt Meter	12/19/16	12/19/17
		Tra	insportation Vib	ration Test	-	
1705	VR	9500	9521CE01	Vibe controller	8/22/16	8/22/17
1697	РСВ	353B34	Lw204221	Control Accelerometer	10/7/16	10/7/17
1698	РСВ	353B34	Lw204222	Control Accelerometer	10/7/16	10/7/17

Test Report No. PR066470



END OF REPORT

24