

National Technical Systems Test Report for Electromagnetic Interference (EMI) Testing of the ExpressVote 2.1

Prepared For

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Revision History

Rev.	Description	Issue Date
0	ITR-PR120980-00	10/29/2020



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1.0 Introduction

This document presents the test procedures used and the results obtained during the performance of an Electromagnetic Interference test program. The test program was conducted to assess the ability of the specified Equipment Under Test (EUT) to successfully satisfy the requirements listed in Section 2.0.

2.0 References

The following references listed below form a part of this document to the extent specified herein.

- Pro V&V, Inc. Purchase Order(s) 2020-004, dated 07/01/2020
- National Technical Systems (NTS) Quote(s) OP0554725, dated 06/24/2020
- NTS Corporate Quality Policy Manual, Revision 9, dated 9/20/2018
- ISO/IEC 17025:2017(E) General Requirements for the Competence of Testing and Calibration Laboratories, dated 11/1/2017
- Test Specification: EAC 2005 VVSG

3.0 Product Selection and Description

Pro V&V, Inc. selected and provided the test sample(s) to be used as the Equipment Under Test. Details below:

Table 3.0-1: Product Identification - Equipment Under Test (EUT)

Item	Qty.	Name/Description	Part Number	Serial Number
1	1	ExpressVote 2.1	ExpressVote 2.1	EV0219400585

3.1 Security Classification

Non-classified

4.0 General Test Requirements

4.1 Test Equipment

NTS-provided equipment is calibrated according to ISO/IEC 17025:2017(E) and calibration is traceable to the National Institute of Standards and Technology (NIST). Calibration records are maintained on file at NTS.

4.2 Measurement Uncertainties

Measurement uncertainty data is available upon request.

4.3 Notice of Deviation

In accordance with NTS' quality procedures, when the EUT is observed to exceed or display susceptibility, a Notice of Deviation (NOD) document is generated by the technician performing the test. This NOD documents the requirement, how the EUT deviated from the requirement, and allows room for resolution of the deviation.

This document is reviewed and approved by the NTS Program Manager or Engineer and the NTS Quality Assurance Representative, and then forwarded to the customer contact. Once mitigated (or passed over), the steps taken to correct the deviation (or simply instruction from the customer to continue testing) are recorded in the NOD and a copy of the NOD is integrated into the body of the report, in the appropriate location.



5.0 Test Descriptions and Results

Table 5.0-1: Summary of Test Information & Results

Section	Test	Specification	Test Facility	Test Date	Part #	Serial #	Test Result*	
5.1	Electrostatic Discharge	EAC 2005	Longmont	09/14/2020 -	ExpressVote	EV0219400585	Complied	
3.1	Electrostatic Discharge	VVSG	Longmont	09/14/2020	2.1	E V 0219400363	Complied	
5.2	Cuma Immunity	EAC 2005	Lonomont	09/11/2020 -	ExpressVote	EV0219400585	Committed	
3.2	Surge Immunity	VVSG	Longmont	09/11/2020	2.1	EV0219400383	Complied	
5.3	Voltage Dips and Inter-	EAC 2005	Longmont	09/09/2020 -	ExpressVote	EV0219400585	Complied	
3.3	ruptions	VVSG	Longmont	09/09/2020	2.1	E V U 2 1 9 4 U U 3 8 3		

^{*}The decision rule used to state compliance is in accordance with the test specification used for testing. Unless otherwise noted, testing was performed in accordance with the latest published version of test specification at time of test.



5.1 Electrostatic Discharge

Electrostatic Discharge per IEC / EN 61000-4-2

Pro V&V, Inc. ES&S PR120980-00 Manufacturer: Project Number: GP #2 Customer Representative: Michael Walker Test Area: Model: ExpressVote 2.1 (Configuration 2) S/N: EV0219400585 EAC 2005 VVSG Standard Referenced: Date: September 14, 2020

Temperature: 19°C Humidity: 32% Pressure: 846 mb

Input Voltage: 120Vac/60Hz

Configuration of Unit: Counting Ballots

Test Engineer: T. Wittig

PR120980-00-4-	2.doc			FR0100												
Test Location	Voltage Level (kV)	el		1								Number of Pulses	Pulses Per Second	Comments	Criteria Met	Pass / Fail
	Indirect Discharge Points															
VCP	8	X	X	10	1	Front Side	A	Pass								
VCP	8	X	X	10	1	Left Side	A	Pass								
VCP	8	X	X	10	1	Right Side	A	Pass								
VCP	8	X	X	10	1	Back Side	A	Pass								
		T			I											
HCP	8	X	X	10	1	Edge of HCP at Front of UUT	A	Pass								
	T	ı	ı	Contact	Discharge I	Points - RED Arrows.										
Figure A2	8	X	X	10	1		A	Pass								
Figure A3	8	X	X	10	1		A	Pass								
Figure A4	8	X	X	10	1		A	Pass								
Figure A5	8	X	X	10	1		A	Pass								
Figure A6	8	X	X			No contact discharges found										
Figure A7	8	X	X			No contact discharges found										
Figure A8	8	X	X			No contact discharges found										
				Air Di	scharge Poi	nts - BLUE Arrows.										
Figure A2	2, 4, 8, 15	X	X	10	1		A	Pass								
Figure A3	2, 4, 8, 15	X	X	10	1		A	Pass								
Figure A4	2, 4, 8, 15	X	X	10	1		A	Pass								
Figure A5	2, 4, 8, 15	X	X			No air discharges found										
Figure A6	2, 4, 8, 15	X	X	10	1		A	Pass								
Figure A7	2, 4, 8, 15	X	X			No air discharges found										
Figure A8	2, 4, 8, 15	X	X	10	1		A	Pass								



Manufacturer:Pro V&V, Inc. ES&SProject Number:PR120980-00Customer Representative:Michael WalkerTest Area:GP #2Model:ExpressVote 2.1 (Configuration 2)S/N:EV0219400585Standard Referenced:EAC 2005 VVSGDate:September 14, 2020



Figure A1. Electrostatic Discharge Test Setup.



Manufacturer:Pro V&V, Inc. ES&SProject Number:PR120980-00Customer Representative:Michael WalkerTest Area:GP #2Model:ExpressVote 2.1 (Configuration 2)S/N:EV0219400585Standard Referenced:EAC 2005 VVSGDate:September 14, 2020



Figure A2. Electrostatic Discharge Test Points



Manufacturer:Pro V&V, Inc. ES&SProject Number:PR120980-00Customer Representative:Michael WalkerTest Area:GP #2Model:ExpressVote 2.1 (Configuration 2)S/N:EV0219400585Standard Referenced:EAC 2005 VVSGDate:September 14, 2020

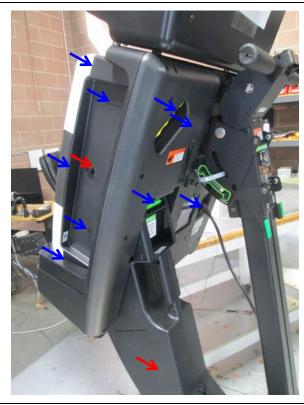


Figure A3. Electrostatic Discharge Test Points



Manufacturer: Pro V&V, Inc. ES&S Project Number: PR120980-00

Customer Representative: Michael Walker Test Area: GP #2

Model: ExpressVote 2.1 (Configuration 2) S/N: EV0219400585

Standard Referenced: EAC 2005 VVSG Date: September 14, 2020

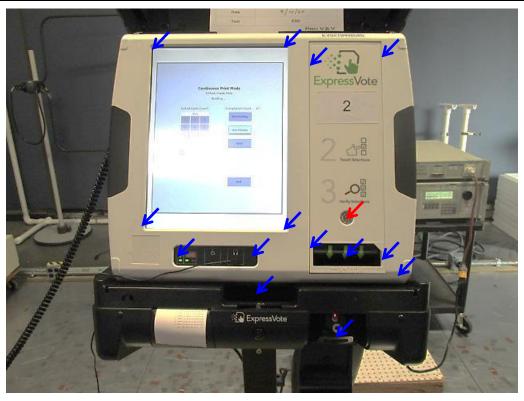


Figure A4. Electrostatic Discharge Test Points



Manufacturer:Pro V&V, Inc. ES&SProject Number:PR120980-00Customer Representative:Michael WalkerTest Area:GP #2Model:ExpressVote 2.1 (Configuration 2)S/N:EV0219400585Standard Referenced:EAC 2005 VVSGDate:September 14, 2020



Figure A5. Electrostatic Discharge Test Points

FR0100



Electrostatic Discharge per IEC / EN 61000-4-2

Manufacturer: Pro V&V, Inc. ES&S Project Number: PR120980-00

Customer Representative: Michael Walker Test Area: GP #2

Model: ExpressVote 2.1 (Configuration 2) S/N: EV0219400585

Standard Referenced: EAC 2005 VVSG Date: September 14, 2020

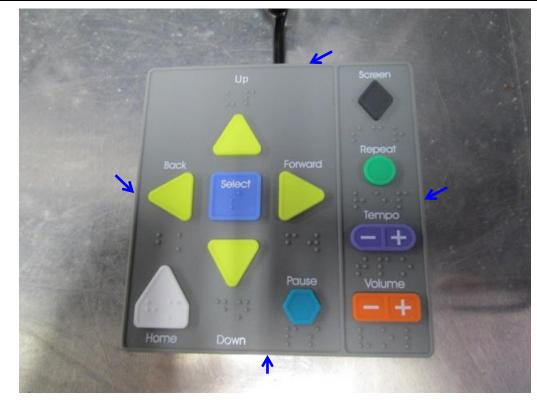


Figure A6. Electrostatic Discharge Test Points



Manufacturer: Pro V&V, Inc. ES&S Project Number: PR120980-00

Customer Representative: Michael Walker Test Area: GP #2

Model: ExpressVote 2.1 (Configuration 2) S/N: EV0219400585

Standard Referenced: EAC 2005 VVSG Date: September 14, 2020

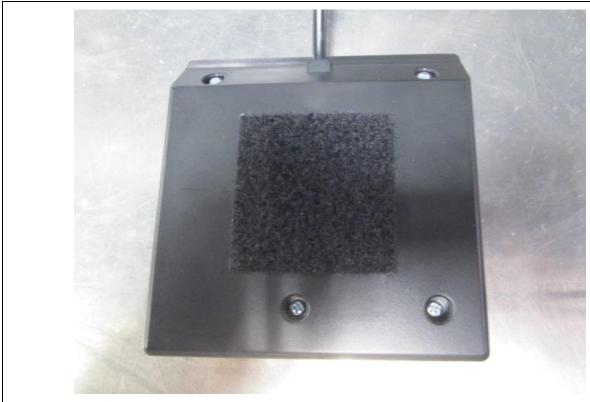


Figure A7. Electrostatic Discharge Test Points

FR0100



Electrostatic Discharge per IEC / EN 61000-4-2

Manufacturer: Pro V&V, Inc. ES&S Project Number: PR120980-00

Customer Representative: Michael Walker Test Area: GP #2

Model: ExpressVote 2.1 (Configuration 2) S/N: EV0219400585

Standard Referenced: EAC 2005 VVSG Date: September 14, 2020



Figure A8. Electrostatic Discharge Test Points



Manufacturer:	Pro V&V, Inc. ES&S	Project Number:	PR120980-00
Customer Representative:	Michael Walker	Test Area:	GP #2
Model:	ExpressVote 2.1 (Configuration 2)	S/N:	EV0219400585
Standard Referenced:	EAC 2005 VVSG	Date:	September 14, 2020
PR120980-00-4-2.doc			FR0100

Test Equipment List

ID Number	Manufacturer	Model #	Serial #	Description	Cal Date	Cal Due
1041	Fluke	83-3	70130434	Multimeter/Frequency Meter	06/29/2020	06/29/2021
1296	California Instruments Corporation	5001IX208- 150/300	S59159	5k VA AC Power Source (WCO95675)	08/20/2020	08/20/2021
1333	EMC Partner	ESD3000	395	ESD Test System, including ESD3000DN1-1540 30kV Ad	12/19/2019	12/19/2020
1901	EXTECH	445703	0617	Hygrometer-Thermometer (WC059899)	06/29/2020	06/29/2021



5.2 Surge Immunity

Surge Immunity per IEC / EN 61000-4-5

Pro V&V, Inc./ES&S PR120980-00 Manufacturer: Project Number: GP 2 Customer Representative: Michael Walker Test Area: Model: ExpressVote 2.1 (Configuration 2) S/N: EV0219400585 EAC 2005 VVSG Standard Referenced: Date: September 11, 2020

Temperature: 22°C Humidity: 32% Pressure: 840 mb

Input Voltage: 120Vac/60Hz
Configuration of Unit: Counting Ballots

Test Engineer: Mike Tidquist

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Voltage (kV)	Pola	arity -	L 1	L 2	L 3	N	P E	Phase (deg)	Number of Pulses	Delay (sec)	Comments	Criteria Met	Pass / Fail
0.5	Х		х			Х		0	5	30	Differential Mode	A	Pass
0.5		x	X			X		0	5	30		A	Pass
0.5	х		Х			X		90	5	30		A	Pass
0.5		х	Х			X		90	5	30		A	Pass
0.5	х		X			X		180	5	30		A	Pass
0.5		Х	Х			Х		180	5	30		A	Pass
0.5	X		Х			Х		270	5	30		A	Pass
0.5		X	Х			Х		270	5	30		A	Pass
0.5	X		X				X	0	5	30	Common Mode Line	A	Pass
0.5		X	X				X	0	5	30		A	Pass
0.5	X		X				X	90	5	30		A	Pass
0.5		X	X				X	90	5	30		A	Pass
0.5	X		X				X	180	5	30		A	Pass
0.5		X	X				X	180	5	30		A	Pass
0.5	X		X				X	270	5	30		A	Pass
0.5		X	X				X	270	5	30		A	Pass
0.5								0	-	20	C MINI		D.
0.5	X					X	X	0	5	30	Common Mode Neutral	A	Pass
0.5		X				X	X	0	5	30		A	Pass
0.5	X					X	X	90	5	30		A	Pass
0.5		X				X	X	90	5	30		A	Pass
0.5	X					X	X	180	5	30		A	Pass
0.5	-	X				X	X	180	5	30 30		A	Pass
0.5	X					X	X	270				A	Pass
0.5		X				X	X	270	5	30		A	Pass
1.0	X		х			Х		0	5	60	Differential Mode	A	Pass



Manufacturer:	Pro V&V, Inc./ES&S	Project Number:	PR120980-00
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Customer Representative: Michael Walker Test Area: GP 2

Model: ExpressVote 2.1 (Configuration 2) S/N: EV0219400585

Standard Referenced: EAC 2005 VVSG Date: September 11, 2020

Temperature: 22°C Humidity: 32% Pressure: 840 mb

Input Voltage: 120Vac/60Hz

Test Engineer: Mike Tidquist

Voltage (kV)	Pola +	arity -	L 1	L 2	L 3	N	P E	Phase (deg)	Number of Pulses	Delay (sec)	Comments	Criteria Met	Pass / Fail
1.0		Х	Х			х		0	5	60		A	Pass
1.0	X		X			Х		90	5	60		A	Pass
1.0		X	X			X		90	5	60		A	Pass
1.0	X		X			X		180	5	60		A	Pass
1.0		X	X			X		180	5	60		A	Pass
1.0	X		X			X		270	5	60		A	Pass
1.0		X	X			X		270	5	60		A	Pass
1.0	X		X				X	0	5	45	Common Mode Line	A	Pass
1.0		X	X				X	0	5	45		A	Pass
1.0	X		X				X	90	5	45		A	Pass
1.0		X	X				X	90	5	45		A	Pass
1.0	X		X				X	180	5	45		A	Pass
1.0		X	X				X	180	5	45		A	Pass
1.0	X		X				X	270	5	45		A	Pass
1.0		X	X				X	270	5	45			
1.0	X					X	X	0	5	45	Common Mode Neutral	A	Pass
1.0		X				X	X	0	5	45		A	Pass
1.0	X					X	X	90	5	45		A	Pass
1.0		X				X	X	90	5	45		A	Pass
1.0	X					X	X	180	5	45		A	Pass
1.0		X				X	X	180	5	45		A	Pass
1.0	X					X	X	270	5	45		A	Pass
1.0		X				X	X	270	5	45			
2.0	X		X			X		0	5	30	Differential Mode	A	Pass
2.0		X	X			X		0	5	30		A	Pass
2.0	X		X			X		90	5	30		A	Pass



Manufacturer: Pro V&V, Inc./ES&S Project Number: PR120980-00

Customer Representative: Michael Walker Test Area: GP 2

Model: ExpressVote 2.1 (Configuration 2) S/N: EV0219400585

Standard Referenced: EAC 2005 VVSG Date: September 11, 2020

Temperature: 22°C Humidity: 32% Pressure: 840 mb

Input Voltage: 120Vac/60Hz

Configuration of Unit: Counting Ballots

Test Engineer: Mike Tidquist

Voltage	Pola	arity	L	L	L	N	P	Phase	Number	Delay	Comments	Criteria	Pass /
(kV)	+	-	1	2	3		E	(deg)	of Pulses	(sec)		Met	Fail
2.0		х	Х			Х		90	5	30		A	Pass
2.0	X		X			X		180	5	30		A	Pass
2.0		X	X			X		180	5	30		A	Pass
2.0	X		X			X		270	5	30		A	Pass
2.0		X	X			X		270	5	30		A	Pass
2.0	X		X				X	0	5	60	Common Mode Line	A	Pass
2.0		X	X				X	0	5	60		A	Pass
2.0	X		X				X	90	5	60		A	Pass
2.0		X	X				X	90	5	60		A	Pass
2.0	X		X				X	180	5	60		A	Pass
2.0		X	X				X	180	5	60		A	Pass
2.0	X		X				X	270	5	60		A	Pass
2.0		X	X				X	270	5	60			
2.0	X					X	X	0	5	60	Common Mode Neutral	A	Pass
2.0		X				X	X	0	5	60		A	Pass
2.0	X					X	X	90	5	60		A	Pass
2.0		X				X	X	90	5	60		A	Pass
2.0	X					X	X	180	5	60		A	Pass
2.0		X				X	X	180	5	60		A	Pass
2.0	X					X	X	270	5	60		A	Pass
2.0		X				X	X	270	5	60		A	Pass



Manufacturer: Pro V&V, Inc./ES&S Project Number: PR120980-00

Customer Representative: Michael Walker Test Area: GP 2

Model: ExpressVote 2.1 (Configuration 2) S/N: EV0219400585

Standard Referenced: EAC 2005 VVSG Date: September 11, 2020



Figure D1. Surge Immunity Test Setup – AC Mains _ I/O Cable.



Manufacturer: Pro V&V, Inc./ES&S Project Number: PR120980-00

Customer Representative: Michael Walker Test Area: GP 2

Model: ExpressVote 2.1 (Configuration 2) S/N: EV0219400585

Standard Referenced: EAC 2005 VVSG Date: September 11, 2020



Figure D2. Surge Immunity Test Setup – AC Mains.



Manufacturer:	Pro V&V, Inc./ES&S	Project Number:	PR120980-00
Customer Representative:	Michael Walker	Test Area:	GP 2
Model:	ExpressVote 2.1 (Configuration 2)	S/N:	EV0219400585
Standard Referenced:	EAC 2005 VVSG	Date:	September 11, 2020
PR120980-00-4-5.doc			FR0100

Test Equipment List

ID Number	Manufacturer	Model #	Serial #	Description	Cal Date	Cal Due
1013	KeyTek	EMC Pro	0008347	Advanced EMC Immunity Tester	09/22/2019	09/22/2020
1041	Fluke	83-3	70130434	Multimeter/Frequency Meter	06/29/2020	06/29/2021
1184	KeyTek	CEWare	4.0	KeyTek EMCPro Control Software for EFT, Surge, H-F	NA	NA
1372	Tektronix	TDS2002B	C103489	Oscilloscope, 60 MHz, 2-channel (WC059683)	06/29/2020	06/29/2021
1901	EXTECH	445703	0617	Hygrometer-Thermometer (WC059899)	06/29/2020	06/29/2021



5.3 Voltage Dips and Interruptions

Voltage Dips and Interrupts per IEC / EN 61000-4-11

Manufacturer:Pro V&V, Inc.ES&SProject Number:PR120980-00Customer Representative:Michael WalkerTest Area:GP 2Model:ExpressVote 2.1 (Configuration 2)S/N:EV0219400585

Standard Referenced: EAC 2005 VVSG Date: September 9, 2020

Temperature: 19°C Humidity: 32% Pressure: 846 mb

Input Voltage: 120Vac/60Hz
Configuration of Unit: Counting Ballots

Test Engineer: Mike Tidquist

% Nominal	No. of Cycles	Phase Angle (deg)			Time	Number	Comments	Criteria	Pass /	
		0	90	180	270	between dropouts	of tests		Met	Fail
						(sec)				
70%	0.6	X				10	3		A	Pass
70%	0.6		X			10	3		A	Pass
70%	0.6			X		10	3		A	Pass
70%	0.5				X	10	3		A	Pass
40%	6.0	Х				10	3		A	Pass
40%	6.0		X			10	3		A	Pass
40%	6.0			X		10	3		A	Pass
40%	6.0				X	10	3		A	Pass
40%	60.0	X				10	3		A	Pass
40%	60.0		X			10	3		A	Pass
40%	60.0			X		10	3		A	Pass
40%	60.0				X	10	3		A	Pass
0%	300	X				10	3		A	Pass
0%	300			X		10	3		A	Pass
					Lin	e Voltage Vari	ation tests			
129Vac Line Voltage Variations (+7.5% of nominal 120V) 2hrs.								A	Pass	
105Vac Line Voltage Variations (-12.5% of nominal 120V) 2 Hrs.								A	Pass	
Surges of +15% line variations of nominal voltage (138V) 2 Hrs.								A	Pass	
Surges of -1:	5% line vari	ations o	of nomir	ıal volta	ge (102V	/) 2 Hrs.			A	Pass

FR0100



Voltage Dips and Interrupts per IEC / EN 61000-4-11

Manufacturer: Pro V&V, Inc.ES&S Project Number: PR120980-00

Customer Representative: Michael Walker Test Area: GP 2

Model: ExpressVote 2.1 (Configuration 2) S/N: EV0219400585

Standard Referenced: EAC 2005 VVSG Date: September 9, 2020

PR120980-00-4-11.doc

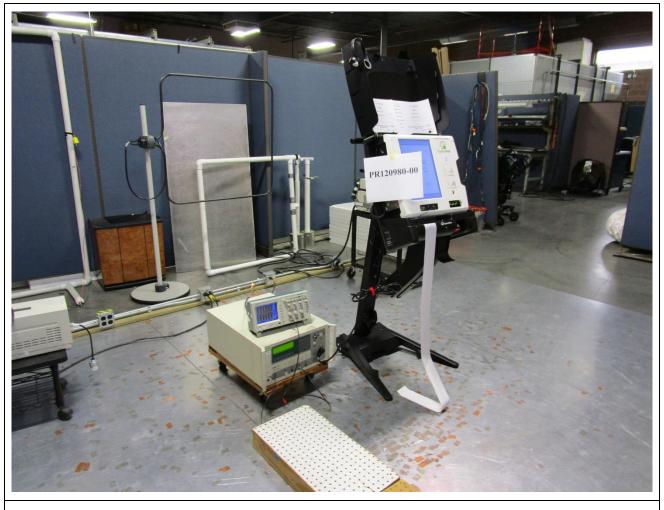


Figure G1. Voltage Dips and Interruptions Test Setup.

FR0100



Voltage Dips and Interrupts per IEC / EN 61000-4-11

Manufacturer: Pro V&V, Inc.ES&S Project Number: PR120980-00

Customer Representative: Michael Walker Test Area: GP 2

Model: ExpressVote 2.1 (Configuration 2) S/N: EV0219400585

Standard Referenced: EAC 2005 VVSG Date: September 9, 2020

PR120980-00-4-11.doc



Figure G2. Line Voltage Variations Test Setup.



Voltage Dips and Interrupts per IEC / EN 61000-4-11

Manufacturer:	Pro V&V, Inc.ES&S	Project Number:	PR120980-00
Customer Representative:	Michael Walker	Test Area:	GP 2
Model:	ExpressVote 2.1 (Configuration 2)	S/N:	EV0219400585
Standard Referenced:	EAC 2005 VVSG	Date:	September 9, 2020
PR120980-00-4-11.doc			FR0100

Test Equipment List

ID Number	Manufacturer	Model #	Serial #	Description	Cal Date	Cal Due	
1013	KeyTek	EMC Pro	0008347	Advanced EMC Immunity Tester	09/22/2019	09/22/2020	
1041	Fluke	83-3	70130434	Multimeter/Frequency Meter	06/29/2020	06/29/2021	
1184	KeyTek	CEWare	4.0	KeyTek EMCPro Control Software for EFT, Surge, H-F	NA	NA	
1296	California Instruments Corporation	5001IX208- 150/300	S59159	5k VA AC Power Source (WCO95675)	08/20/2020	08/20/2021	
1371	Tektronix	TDS2002B	C103483	Oscilloscope, 60 MHz, 2-channel	02/24/2020	02/24/2021	
1901	EXTECH	445703	0617	Hygrometer-Thermometer (WC059899)	06/29/2020	06/29/2021	



6.0 Test Log

EMI Test Log

 Manufacturer:
 Pro V&V, Inc./ES&S
 Project Number:
 PR120980-00

 B91114
 Model:
 ExpressVote 2.1(Configuration 2)
 S/N:
 EV0219400621

 Customer Representative:
 Michael Walker

Customer Representative: Michael Walker

Standard Referenced: FCC Class B, EAC 2005 VVSG

FR0105

Ground Planes / CALC

Test	Test	Date	Event	0	Time	Result	Initials
	Code			T	(hrs)		3.600
4-11		September 9,	Voltage Dips and Interruptions		2.0	Pass	MT
		2020	(Inc./Red. of Nom. Voltage)				
		0930-1130	Electric power increases of 7.5% and reductions of 12.5%				
			of nominal specified power.				
			120/60 VAC				
			129Vac Line Voltage Variations (+7.5% of nominal 120V) 2hrs.				
4 11		1120 1220	Voltage Dips and Interruptions		2.0	D	MT
4-11		1130-1330	(Inc./Red. of Nom. Voltage)		2.0	Pass	MT
			Electric power increases of 7.5% and reductions of 12.5%				
			of nominal specified power.				
			120/60 VAC				
			105Vac Line Voltage Variations (-12.5% of nominal				
			120V) 2 Hrs.				
4-11		1330-1530	Voltage Dips and Interruptions		2.0	Pass	MT
		1000 1000	(Surge of +/- 15%)		2.0	1 455	1,11
			Surge of +/- 15% line variation of nominal line voltage				
			120/60 VAC				
			Surges of +15% line variations of nominal voltage (138V)				
			2 Hrs.				
4-11		September 10,	Voltage Dips and Interruptions		2.0	Pass	MT
		2020	(Surge of +/- 15%)				
		0800-1000	Surge of +/- 15% line variation of nominal line voltage				
			120/60 VAC				
			Surges of +15% line variations of nominal voltage (102V)				
			2 Hrs.				
	1	1000 1100	Distance from EUT power input to EMC pro is 30 inche	S			1 2 500
4-11		1000-1100	Voltage Dips and Interruptions		1.0	Pass	MT
			70% nom, 0.6 cycles / 40% nom, 6 cycles & 1 sec. / 0%				
			nom, 300 cycles				
	<u> </u>		Per Client testing is done for today 9-10-2020				1
4-5		September 11,	Surge Immunity		5.5	Pass	MT
4-3		2020	Mains: +/- 2kV CM, +/- 2kV DM, (0, 90, 180, 270)		5.5	1 ass	171 1
		0800-1330	120/60 VAC				
4-2		September 14,	Electrostatic Discharge		4.0	Pass	TW
		2020	+/- 8kV Contact, +/-2, 4, 8, 15kV Air			1 400	1 ,,
		2020	120/60 VAC				



End of Report