

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

Prepared For

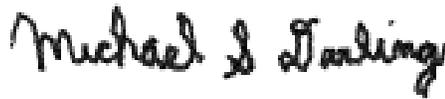
Pro V&V, Inc. | 6705 Odyssey Dr NW Ste C | Huntsville, AL 35806

Prepared By

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A handwritten signature in black ink, appearing to read "Greg Gagne", written over a horizontal line.

Greg Gagne
Technical Writer

A handwritten signature in black ink, appearing to read "Michael S. Darling", written over a horizontal line.

Michael Darling
EMI Department Manager



This report and the information contained herein represent the results of testing articles/products identified 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 represent any statement whatsoever as to its 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.



Revision History

Rev.	Description	Issue Date
0	ETR-PR127745	04/16/2021

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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) 2020-010, dated 10/26/2020
- National Technical Systems (NTS) Quote(s) OP0565143, dated 10/15/2020
- 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: FCC Part 15

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	2	ClearCast	ClearVote 2.2	CCER0401003, CCER0401002

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	Radiated Emissions, 30 MHz - 1 GHz	FCC Part 15	Longmont	12/04/2020 - 12/04/2020	ClearVote 2.2	CCER0401002	Complied
5.2	Conducted Emissions, 150 kHz - 30 MHz	FCC Part 15	Longmont	12/04/2020 - 12/04/2020	ClearVote 2.2	CCER0401003	Complied

*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 Radiated Emissions, 30 MHz - 1 GHz

Radiated Emissions, FCC Part 15

Manufacturer:	Pro V&V/CBG	Project Number:	PR127745B81007
Customer Representative:	Michael Walker	Test Area:	10m2
Model:	ClearVote 2.2 (ClearCast)	S/N:	CCER0401002
Standard Referenced:	FCC Part 15	Date:	December 4, 2020
Temperature:	22°C	Humidity:	32%
Input Voltage:	120Vac/60Hz	Pressure:	843mb
Configuration of Unit:	Normal operating mode		
Test Engineer:	Kevin Johnson		

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Type	Frequency (MHz)	Level (dBuV)	Transducer (dB/m)	Gain / Loss (dB)	Final (dBuV/m)	Azm(deg)/Pol/Hgt(m)	Margin: FCC Class B QP (dB)
QP	30.583	23.9	24.8	-25.9	22.8	317/H-Pole/1.91	6.77
QP	192.321	25.2	15.5	-23.4	17.3	317/H-Pole/2.00	15.71
QP	311.977	36.2	17.8	-23.3	30.6	0/V-Pole/3.98	4.90
QP	444.195	27.9	20.7	-23.0	25.6	175/V-Pole/3.89	9.94
QP	455.971	33.5	20.9	-23.0	31.4	178/V-Pole/3.90	4.17
QP	467.960	32.3	21.3	-22.9	30.8	173/V-Pole/3.82	4.78
QP	491.952	31.2	21.8	-22.7	30.3	180/V-Pole/3.00	5.25
QP	710.473	24.6	24.4	-21.6	27.4	225/V-Pole/1.00	8.13
QP	733.101	28.8	24.5	-21.7	31.7	271/H-Pole/1.01	3.89
QP	779.796	24.7	25.3	-21.6	28.4	315/V-Pole/1.01	7.16
QP	894.995	25.1	26.3	-21.0	30.4	90/V-Pole/1.01	5.10

The highest emission measured was at **733.101 MHz**, which was **3.89 dB** below the limit.

- “Type” refers to the type of measurement performed. The type of measurement made is based on the requirements of the particular standard:
 - PK = Peak Measurement: RBW is 120kHz, VBW is 3 MHz
 - QP = Quasi-Peak Measurement: RBW is 120kHz, VBW is 3 MHz, and QP Detection is ENABLED
 - AV = Video Average Measurement: RBW is 1 MHz, VBW is 10 Hz
- The “field strength” (FS) emissions level is attained by adding the received amplitude measured (RA), Antenna factor (AF), and cable factor (CF) minus the amplifier gain (AG). $FS = RA + AF + CF - AG$. Final measurements are made with the Azimuth, Polarity, Height, and EUT Cables positioned for maximum radiation. If applicable, cables positions are noted in the test log. (Sample Calculation: $49.6 \text{ dBuV} + 11.4 \text{ dB/m} - 28.8 \text{ dB (CF/AG)} = 32.2 \text{ dBuV/m}$. **Important Note:** This is a sample calculation only for the purpose of demonstration, and does not reflect data in this report.)
- The “Azm/Pol/Hgt” indicates the turn-table *azimuth*, the antenna *polarity*, and the antenna *height* where the maximum emissions level was measured.
- The “Margin” is with reference to the emissions limit. A positive number indicates that the emission measurement is below the limit. A negative number indicates that the emission measurement exceeds the limit.
- The PRESCAN is a peak measurement and is performed with the RBW set to 120 kHz, VBW set to 3 MHz (30 MHz to 1 GHz), and the RBW set to 1 MHz, VBW set to 100 kHz (> 1 GHz)

Radiated Emissions, FCC Part 15

Manufacturer: Pro V&V/CBG
Customer Representative: Michael Walker
Model: ClearVote 2.2 (ClearCast)
Standard Referenced: FCC Part 15

Project Number: PR129
Test Area: 10m2
S/N: CCER0401002
Date: December 4, 2020

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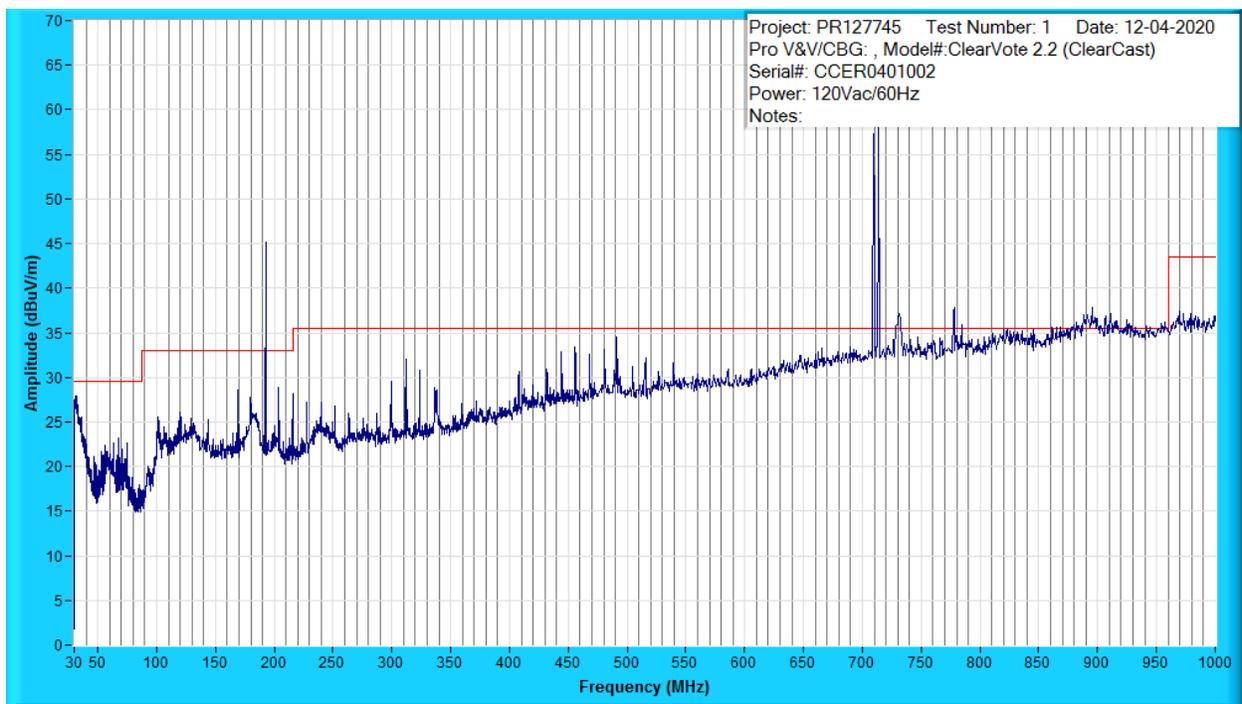


Figure A1: Radiated Emissions Prescan, 30MHz to 1000MHz, Peak Measurements at 10m Distance

Radiated Emissions, FCC Part 15

Manufacturer: Pro V&V/CBG
Customer Representative: Michael Walker
Model: ClearVote 2.2 (ClearCast)
Standard Referenced: FCC Part 15

Project Number: PR129
Test Area: 10m2
S/N: CCER0401002
Date: December 4, 2020

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Figure A1: Radiated Emissions Test Setup – Front Side

Radiated Emissions, FCC Part 15

Manufacturer: Pro V&V/CBG
Customer Representative: Michael Walker
Model: ClearVote 2.2 (ClearCast)
Standard Referenced: FCC Part 15

Project Number: PR129
Test Area: 10m2
S/N: CCER0401002
Date: December 4, 2020

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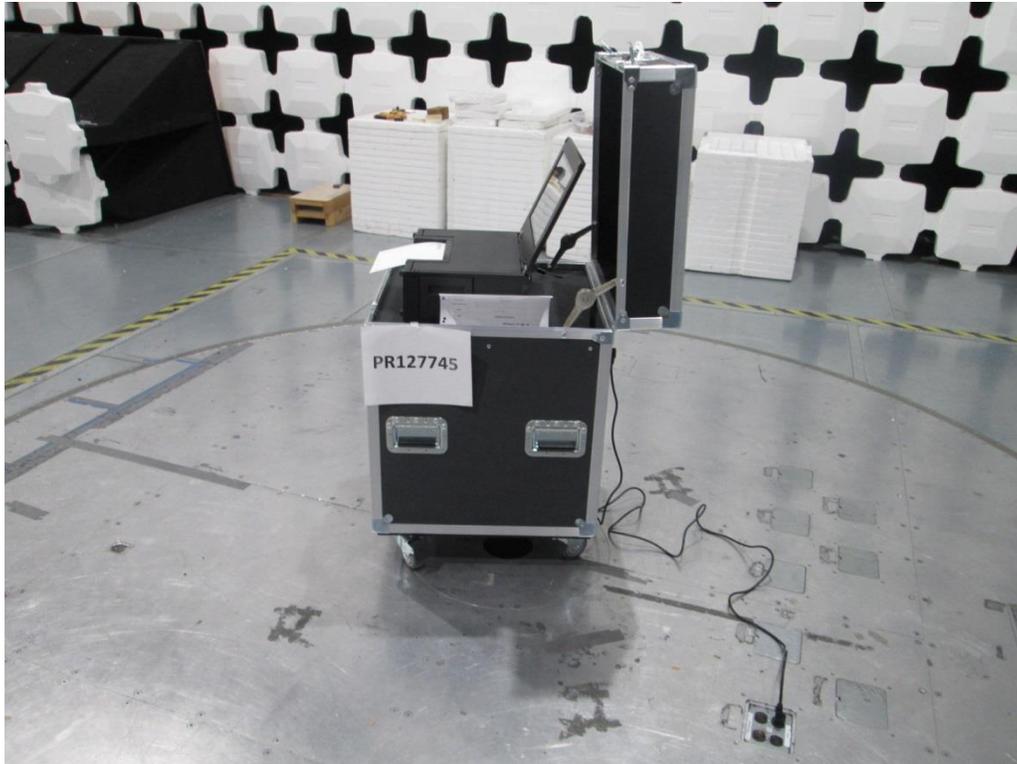


Figure A2: Radiated Emissions Test Setup – Right Side

Radiated Emissions, FCC Part 15

Manufacturer: Pro V&V/CBG
Customer Representative: Michael Walker
Model: ClearVote 2.2 (ClearCast)
Standard Referenced: FCC Part 15

Project Number: PR129
Test Area: 10m2
S/N: CCER0401002
Date: December 4, 2020

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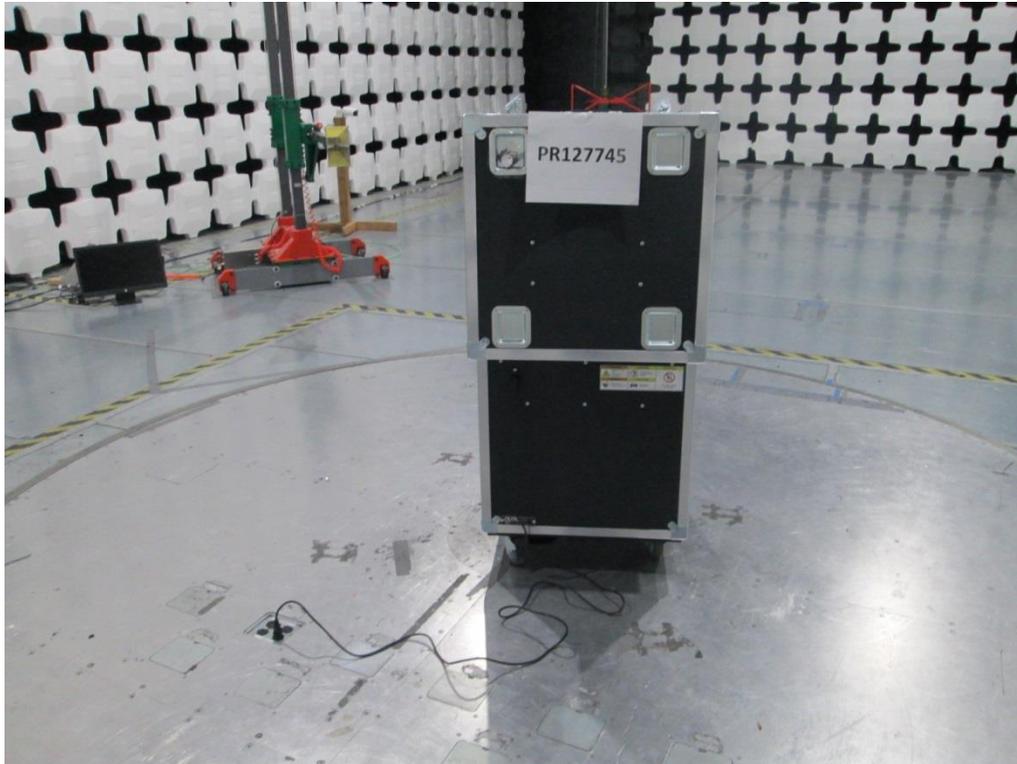


Figure A3: Radiated Emissions Test Setup – Back Side

Radiated Emissions, FCC Part 15

Manufacturer: Pro V&V/CBG
Customer Representative: Michael Walker
Model: ClearVote 2.2 (ClearCast)
Standard Referenced: FCC Part 15

Project Number: PR129
Test Area: 10m2
S/N: CCER0401002
Date: December 4, 2020

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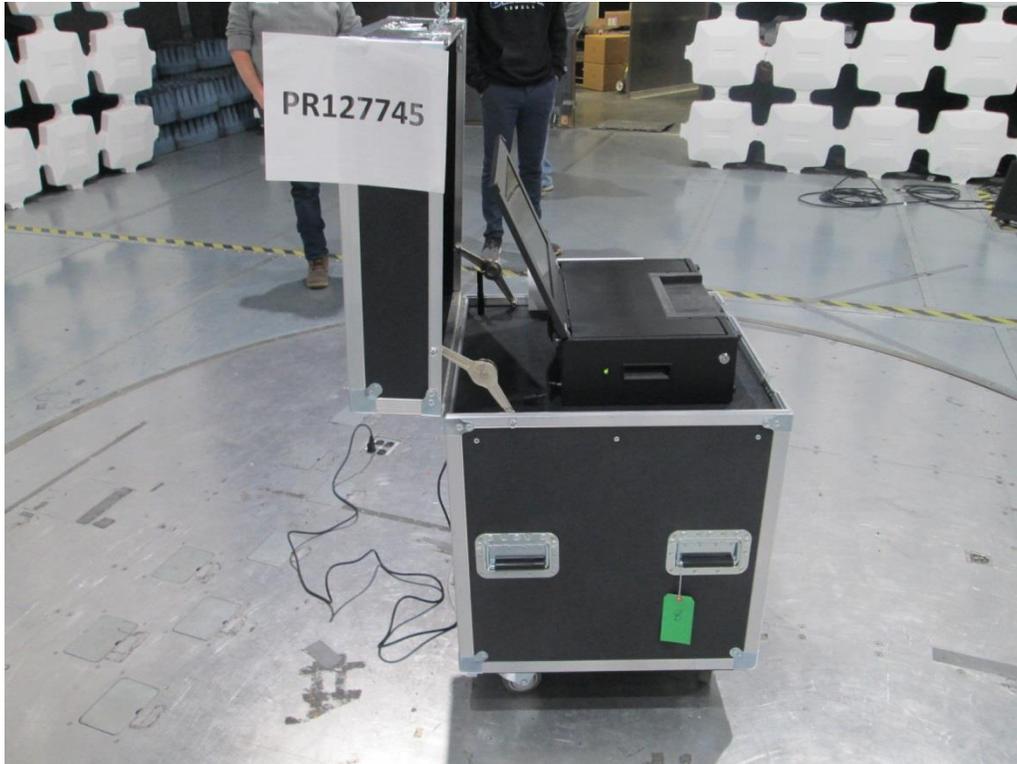


Figure A1: Radiated Emissions Test Setup – Left Side



Radiated Emissions, FCC Part 15

Manufacturer:	Pro V&V/CBG	Project Number:	PR127745
Customer Representative:	Michael Walker	Test Area:	10m2
Model:	ClearVote 2.2 (ClearCast)	S/N:	CCER0401002
Standard Referenced:	FCC Part 15	Date:	December 4, 2020

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Test Equipment List

ID Number	Manufacturer	Model #	Serial #	Description	Cal Date	Cal Due
1046	Hewlett Packard	8566B	2403A08106	Spectrum Analyzer Display	04/01/2020	04/01/2021
1220	Mini-Circuits	ZKL-2	NA	Preamp, 10 - 2000 MHz, 30 dB	01/27/2020	02/27/2021
1342	Hewlett Packard	85650A	2412A00392	Quasi-Peak Adapter	04/01/2020	04/01/2021
1345	Hewlett Packard	85685A	2901A00865	RF Preselector	03/31/2020	07/01/2021
1381	Sunol	JB1	A010411	0.03-2 GHz Broadband Hybrid Antenna	08/27/2019	08/27/2021
1396	CIR Enterprises	10m Chamber #2	002	10m Chamber with 4m turntable	04/27/2020	04/27/2022
1410	Sunol Sciences	SC110V	021611-1	System Controller 10meter #2	NA	NA
1501	Hewlett Packard	8566B	2007A00456	Spectrum Analyzer - RF Section	04/01/2020	04/01/2021
1592	EMCI	CEAS	V4.1.2	Commercial Emissions Automation Software - 10M # 2	NA	NA
1902	EXTECH	445703	1218-1	Hygrometer-Thermometer (WC059900)	06/29/2020	06/29/2021



5.2 Conducted Emissions, 150 kHz - 30 MHz

Conducted Emissions, FCC Part 15

Manufacturer:	Pro V&V/CBG	Project Number:	PR127745/B80802
Customer Representative:	Michael Walker	Test Area:	10m1
Model:	ClearVote 2.2 (ClearCast)	S/N:	CCER0401003
Standard Referenced:	FCC Part 15	Date:	12/4/2020
Temperature:	22°C	Humidity:	32%
Input Voltage:	120Vac/60Hz	Pressure:	833mb
Configuration of Unit:	Normal operating mode		
Test Engineer:	Michael Darling		

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Conducted Emissions-Quasi-Peak/ Average Data Table L1

Operator: Michael Darling
01:28:13 PM, Friday, December 04, 2020

EUT: ClearVote 2.2
PR#: PR127745
Client: Pro V&V

Frequency (MHz)	Amplitude (in dBuV)	Quasi-peak Limit (in dBuV)	Delta to Quasi-peak Limit (in dB)	Average Limit (in dBuV)	Delta to Average Limit (in dB)
150.00 KHz	53.22	78.00	-24.78	65.00	-11.78
152.25 KHz	53.46	78.00	-24.54	65.00	-11.54
154.50 KHz	53.70	78.00	-24.30	65.00	-11.30
157.50 KHz	49.93	78.00	-28.07	65.00	-15.07
756.73 KHz	28.49	73.00	-43.51	60.00	-30.51
1.06 MHz	30.39	73.00	-42.61	60.00	-29.61
3.97 MHz	26.78	73.00	-46.22	60.00	-33.22
3.98 MHz	27.29	73.00	-45.71	60.00	-32.71
4.00 MHz	27.01	73.00	-45.99	60.00	-32.99
4.04 MHz	27.95	73.00	-45.05	60.00	-32.05
4.04 MHz	27.81	73.00	-45.19	60.00	-32.19
4.05 MHz	27.67	73.00	-45.33	60.00	-32.33
7.53 MHz	23.45	73.00	-49.55	60.00	-36.55
9.07 MHz	28.51	73.00	-44.49	60.00	-31.49
11.71 MHz	31.40	73.00	-41.60	60.00	-28.60
11.86 MHz	31.11	73.00	-41.89	60.00	-28.89
13.36 MHz	24.35	73.00	-48.65	60.00	-35.65
14.92 MHz	23.42	73.00	-49.58	60.00	-36.58
14.99 MHz	23.90	73.00	-49.10	60.00	-36.10
29.09 MHz	17.98	73.00	-55.02	60.00	-42.02

Line Tested:
AC L1
120vac 60Hz



Conducted Emissions, FCC Part 15

Manufacturer:	Pro V&V/CBG	Project Number:	PR127745/B80802
Customer Representative:	Michael Walker	Test Area:	10mI
Model:	ClearVote 2.2 (ClearCast)	S/N:	CCER0401003
Standard Referenced:	FCC Part 15	Date:	12/4/2020
Temperature:	22°C	Humidity:	32%
Input Voltage:	120Vac/60Hz	Pressure:	833mb
Configuration of Unit:	Normal operating mode		
Test Engineer:	Michael Darling		

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Conducted Emissions
Average Measurements
Average Data Table

Operator: Michael Darling
01:30:55 PM, Friday, December 04, 2020

ELUT ClearVote 2.2
PR127745
Client: Pro V&V

FREQUENCY (MHz)	Amplitude (in dBµV)	Quasi-peak Limit (in dBµV)	Quasi-peak Limit (in dBµV)	Average Limit (in dBµV)	Average Limit (in dBµV)
150.25 KHz	29.96	70.00	-48.04	65.00	-35.04
151.67 KHz	31.47	70.00	-48.53	65.00	-33.53
152.11 KHz	30.13	70.00	-47.87	65.00	-34.87
153.00 KHz	31.47	70.00	-48.53	65.00	-33.53
154.24 KHz	30.61	70.00	-47.39	65.00	-34.39
155.06 KHz	30.90	70.00	-47.10	65.00	-34.10

Line Tested:
AC L1
120VAC 60Hz

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Conducted Emissions-Quasi-Peak/ Average Data Table L2



Conducted Emissions, FCC Part 15

Manufacturer:	Pro V&V/CBG	Project Number:	PR127745/B80802
Customer Representative:	Michael Walker	Test Area:	10m1
Model:	ClearVote 2.2 (ClearCast)	S/N:	CCER0401003
Standard Referenced:	FCC Part 15	Date:	12/4/2020
Temperature:	22°C	Humidity:	32%
Input Voltage:	120Vac/60Hz	Pressure:	833mb
Configuration of Unit:	Normal operating mode		
Test Engineer:	Michael Darling		

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Conducted Emissions
Quasi-peak Data
Quasi-peak Data Table

Operator: Michael Darling
01:42:34 PM, Friday, December 04, 2020

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EUT: ClearVote 2.2
P/N: PR127745
Client: Pro V&V

FREQUENCY (MHz)	Amplitude (in dBµV)	Quasi-peak Limit (in dBµV)	Quasi-peak Limit to Quasi-peak Limit (in dBµV)	Average Limit (in dBµV)	Average Limit (in dBµV)
152.500 MHz	53.58	73.00	-24.42	65.00	-11.42
154.500 MHz	51.41	73.00	-26.59	65.00	-13.59
759.860 MHz	30.08	73.00	-42.92	60.00	-28.92
1.560 MHz	30.96	73.00	-42.04	60.00	-29.04
3.870 MHz	25.04	73.00	-47.96	60.00	-34.96
3.560 MHz	25.97	73.00	-47.03	60.00	-34.03
3.870 MHz	26.28	73.00	-46.72	60.00	-33.72
3.560 MHz	26.59	73.00	-46.41	60.00	-33.41
4.010 MHz	26.45	73.00	-46.55	60.00	-33.55
4.020 MHz	26.30	73.00	-46.70	60.00	-33.70
11.890 MHz	31.34	73.00	-41.66	60.00	-28.66
14.180 MHz	22.42	73.00	-50.58	60.00	-37.58
14.910 MHz	23.39	73.00	-49.61	60.00	-36.61
24.380 MHz	19.21	73.00	-54.79	60.00	-41.79

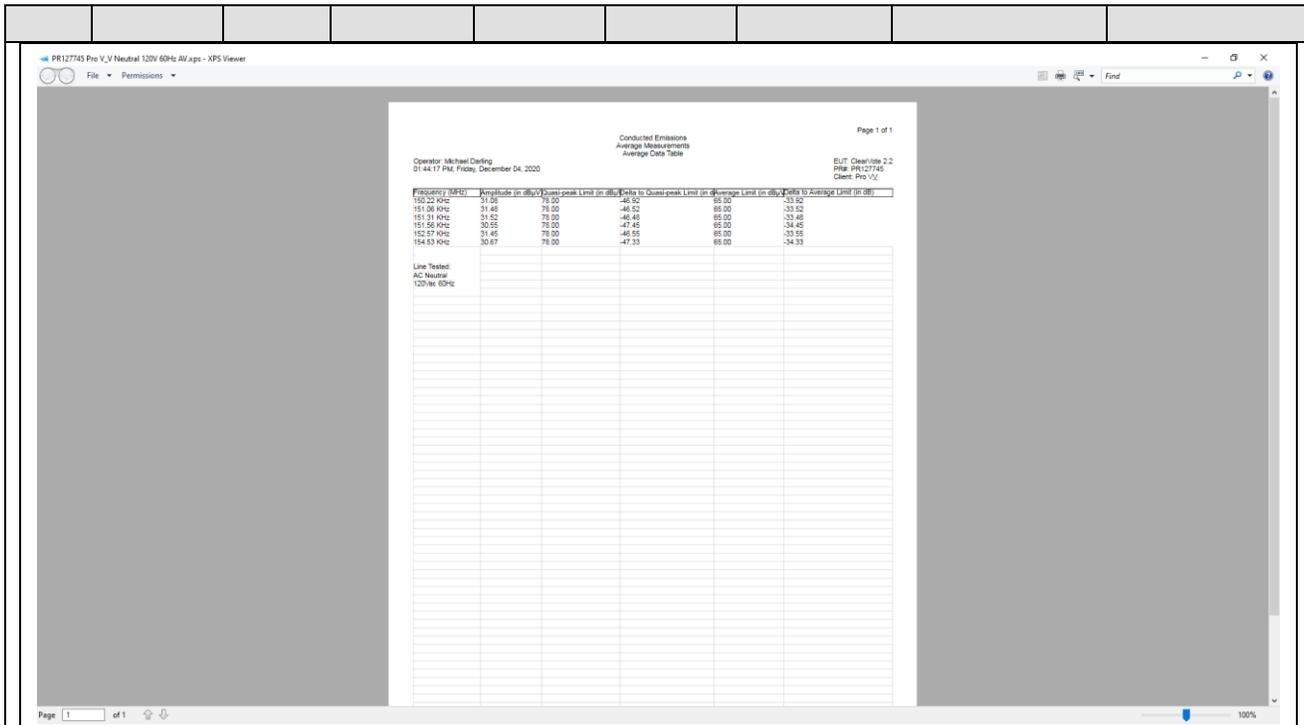
Line Tested:
AC Neutral
120Vac 60Hz

Conducted Emissions, FCC Part 15

Manufacturer:	Pro V&V/CBG	Project Number:	PR127745/B80802
Customer Representative:	Michael Walker	Test Area:	10m1
Model:	ClearVote 2.2 (ClearCast)	S/N:	CCER0401003
Standard Referenced:	FCC Part 15	Date:	12/4/2020
Temperature:	22°C	Humidity:	32%
Input Voltage:	120Vac/60Hz	Pressure:	833mb
Configuration of Unit:	Normal operating mode		
Test Engineer:	Michael Darling		

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FREQUENCY (MHz)	Amplitude (in dBuV)	Quasi-peak Limit (in dBuV)	Video to Quasi-peak Limit (in dBuV)	Average Limit (in dBuV)	Video to Average Limit (in dB)
150.22 KHz	31.56	70.00	-46.52	65.00	-33.52
151.08 KHz	31.48	70.00	-46.52	65.00	-33.52
151.31 KHz	31.52	70.00	-46.48	65.00	-33.48
151.56 KHz	30.55	70.00	-47.45	65.00	-34.45
152.27 KHz	31.45	70.00	-46.55	65.00	-33.55
154.53 KHz	30.67	70.00	-47.33	65.00	-34.33

Line Tested:
AC Neutral
120W/ 60Hz

The highest emission measured was at **154.5 kHz**, which was **-24.30 dB** below the limit.

- “Type” refers to the type of measurement performed. The type of measurement made is based on the requirements of the particular standard:
 - PK = Peak Measurement: RBW is 9 kHz, VBW is 3 MHz
 - QP = Quasi-Peak Measurement: RBW is 9 kHz, VBW is 3 MHz, and QP Detection is ENABLED
 - AV = Video Average Measurement: RBW is 9 kHz, VBW is 10 Hz
- The “field strength” (FS) emissions level is attained by adding the received amplitude measured (RA), Antenna factor (AF), and cable factor (CF) minus the amplifier gain (AG). $FS = RA + AF + CF - AG$. Final measurements are made with the Azimuth, Polarity, Height, and EUT Cables positioned for maximum radiation. If applicable, cables positions are noted in the test log. (Sample Calculation: $49.6 \text{ dBuV} + 11.4 \text{ dB/m} - 28.8 \text{ dB (CF/AG)} = 32.2 \text{ dBuV/m}$. **Important Note:** This is a sample calculation only for the purpose of demonstration, and does not reflect data in this report.)
- The “TestPoint” indicates which AC or DC input power line or which I/O cable the measurement was made on.

- The “Margin” is with reference to the emissions limit. A positive number indicates that the emission measurement is below the limit. A negative number indicates that the emission measurement exceeds the limit.
- The PRESCAN is a peak measurement and is performed with the RBW set to 9 kHz, and the VBW set to 3 MHz

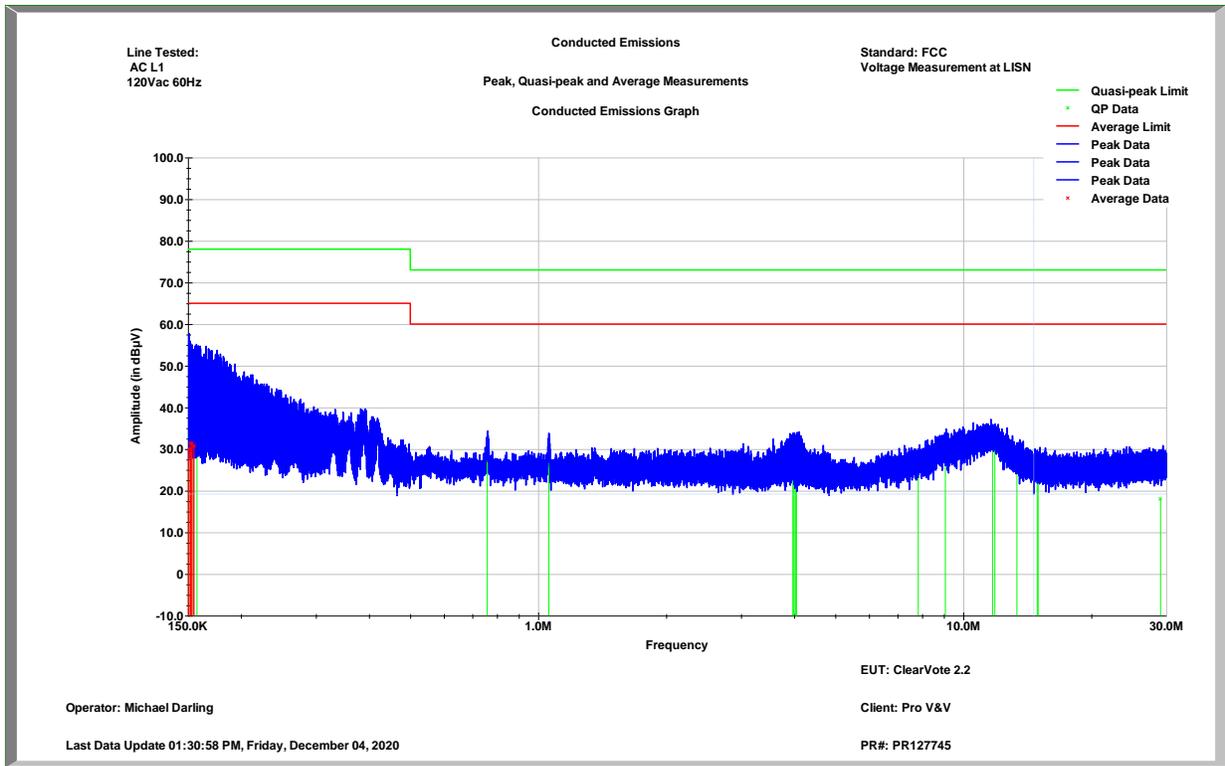
Conducted Emissions, FCC Part 15

Manufacturer: Pro V&V/CBG
 Customer Representative: Michael Walker
 Model: ClearVote 2.2 (ClearCast)
 Standard Referenced: FCC Part 15

Project Number: PR127745/B80802
 Test Area: 10m1
 S/N: CCER0401003
 Date: 12/4/2020

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Conducted Emissions Graph FCC Line 1 120V 60Hz

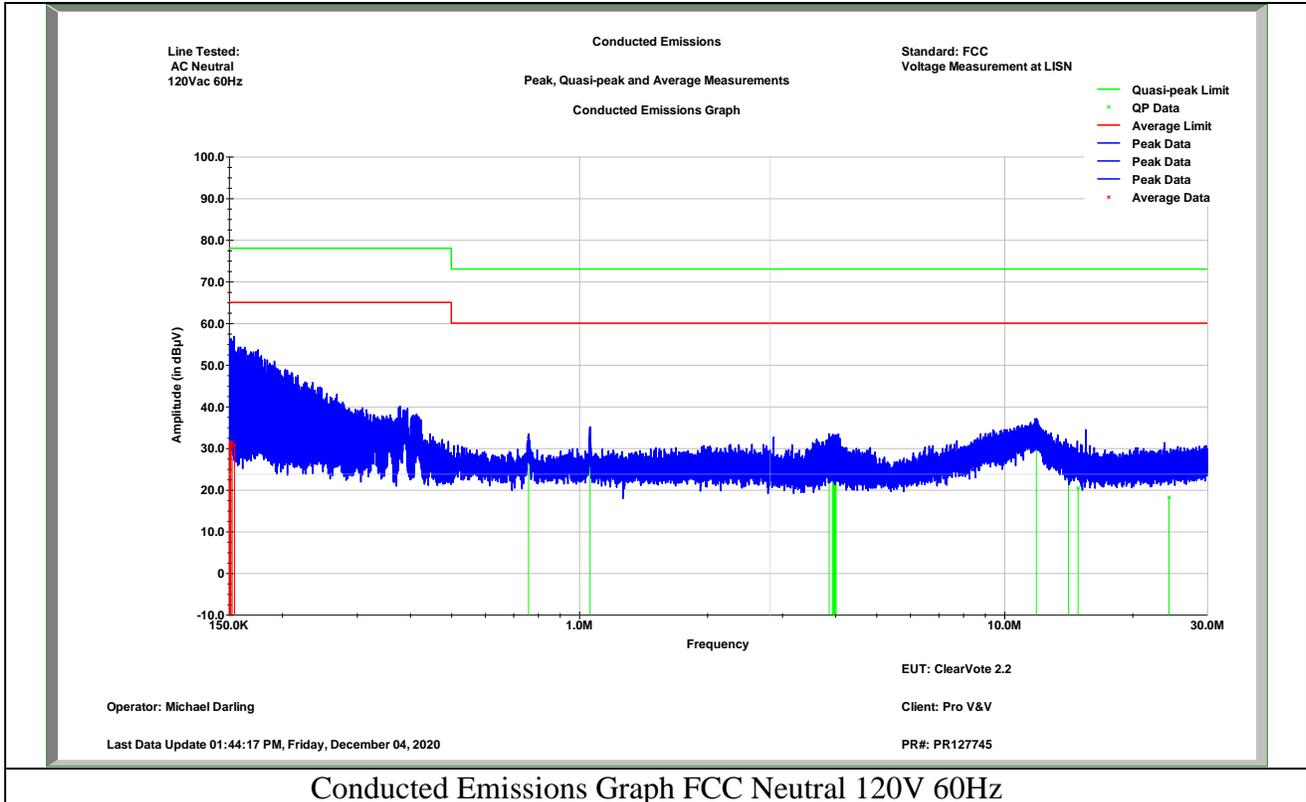
Conducted Emissions, FCC Part 15

Manufacturer: Pro V&V/CBG
 Customer Representative: Michael Walker
 Model: ClearVote 2.2 (ClearCast)
 Standard Referenced: FCC Part 15

Project Number: PR127745/B80802
 Test Area: 10m1
 S/N: CCER0401003
 Date: 12/4/2020

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Conducted Emissions Graph FCC Neutral 120V 60Hz

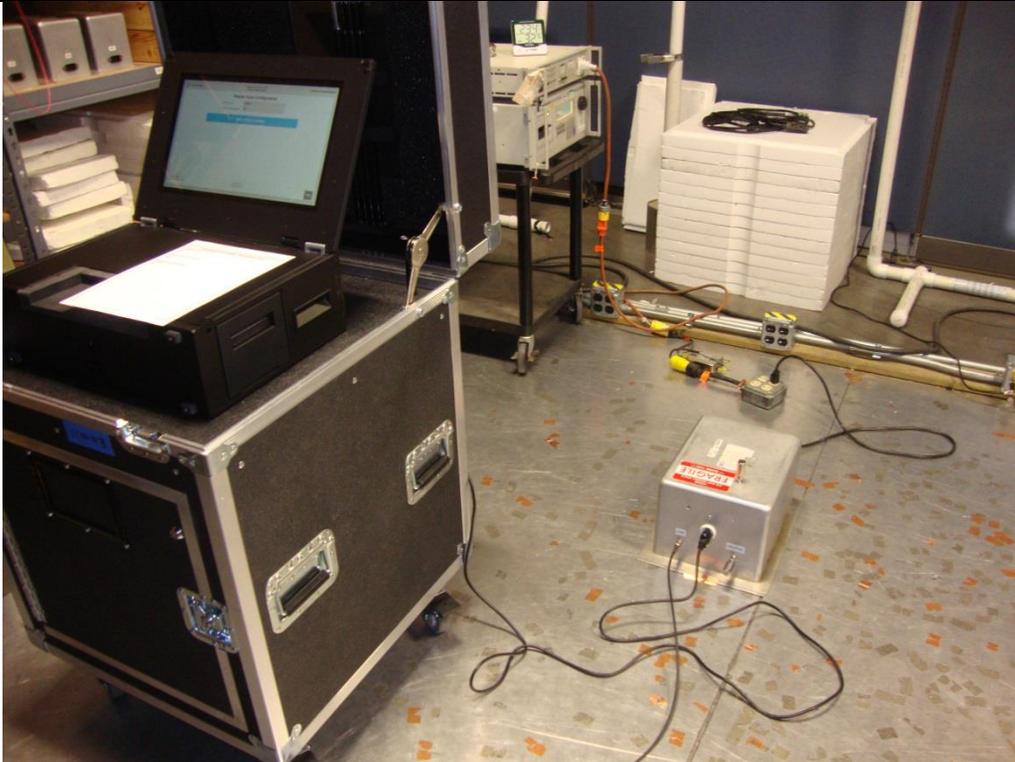
Conducted Emissions, FCC Part 15

Manufacturer: Pro V&V/CBG
Customer Representative: Michael Walker
Model: ClearVote 2.2 (ClearCast)
Standard Referenced: FCC Part 15

Project Number: PR127745/B80802
Test Area: 10m1
S/N: CCER0401003
Date: 12/4/2020

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Conducted Emissions Test setup – Front Side

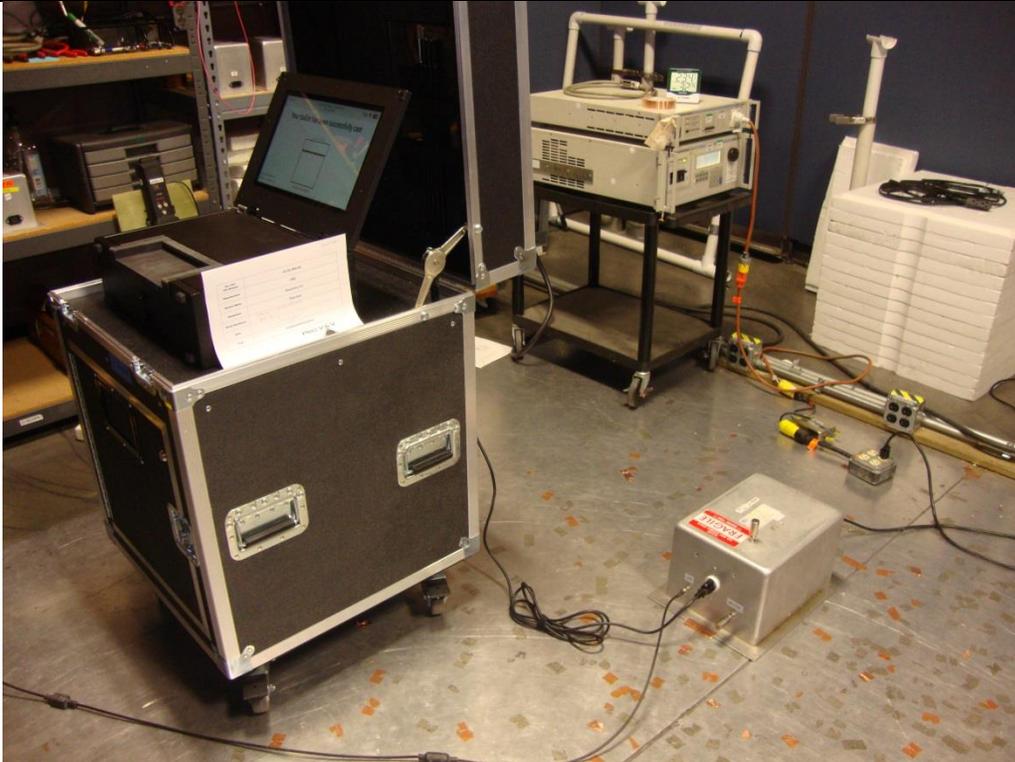
Conducted Emissions, FCC Part 15

Manufacturer: Pro V&V/CBG
Customer Representative: Michael Walker
Model: ClearVote 2.2 (ClearCast)
Standard Referenced: FCC Part 15

Project Number: PR127745/B80802
Test Area: 10m1
S/N: CCER0401003
Date: 12/4/2020

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Conducted Emissions Test setup – Right Side



Conducted Emissions, FCC Part 15

Manufacturer: Pro V&V/CBG
Customer Representative: Michael Walker
Model: ClearVote 2.2 (ClearCast)
Standard Referenced: FCC Part 15

Project Number: PR127745/B80802
Test Area: 10m1
S/N: CCER0401003
Date: 12/4/2020

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Test Equipment List

ID Number	Manufacturer	Model #	Serial #	Description	Cal Date	Cal Due
1557	EMCI	EMCI, 2 Phase LISN	11	150 kHz to 30 MHz, 277 Vac/400 Vdc, 50/60 Hz, 16 A	09/28/2020	09/28/2021
1234	CIR Enterprises	10m Chamber	001	10m Chamber with 2.5m turntable	05/28/2019	05/28/2021
1951	RHODE & SCHWARZ	ESW44	101866	EMI Test Receiver (2Hz-44GHz)	01/08/2021	01/08/2022
1200	Agilent Technology	11947A	3107A03807	Transient Limiter, 9 kHz to 200 MHz	04/24/2020	04/24/2021
1902	EXTECH	445703	1218-1	Hygrometer-Thermometer (WC059900)	06/29/2020	06/29/2021
1492	Fluke	87/5 Multimeter	23350032	True RMS Multimeter (WC059765)	12/18/2020	12/18/2021



6.0 Test Log

EMI Test Log

Manufacturer:	CBG	Project Number:	PR127745/B80802
Model:	ClearVote 2.2 (ClearCast) Ballot Box	S/N:	CCER0401003 CCER0401002
Customer Representative:	Michael Walker		
Standard Referenced:	FCC Part 15		

FR0105

10m Emissions

Test	Test Code	Date	Event	O T	Time (hrs)	Result	Initials
RE		December 4, 2020 0800-1000	Test#1: 30MHz – 1GHz, 8 rads, 4 heights, 3 second dwell, ref level = 80dBuy, 10 meter distance 120Vac/60Hz				KJ
CE		12/4/2020 1320-1345	Begin testing ClearVote 2.2, ClearCast, CCER0401002		0.5	Pass	MD



End of Report