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TEST REPORT

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OPENELECT VOTING SYSTEMS (OVS) ENVIRONMENTAL AND EMI HARDWARE TEST REPORT FOR UNISYN VOTING SOLUTIONS, INC.

STATE OF ALABAMA
COUNTY OF MADISON }

Robert D. Hardy, Department Manager, being duly sworn, deposes and says: The information contained in this report is the result of complete and carefully conducted testing and is to the best of his knowledge true and correct in all respects.

Robert D. Hardy

SUBSCRIBED and sworn to before me this 30 day of Dec 20 09

Sandra A. Daniel
Notary Public in and for the State of Alabama at Large

My Commission expires

June 5, 2011

Wyle shall have no liability for damages of any kind to person or property, including special or consequential damages, resulting from Wyle's providing the services covered by this report.

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1.0 INTRODUCTION

1.1 Scope

This report documents the test procedures followed and the results obtained during Environmental and Electrical Testing performed on the OpenElect Voting System (OVS) for Unisyn Voting Solutions, Inc. Upon receipt by Wyle Laboratories, the systems were inspected and subjected to a Physical Configuration Audit (PCA). The receiving inspection revealed the systems to be in good condition. All testing was performed at Wyle Laboratories' Huntsville, Alabama, Test Facility.

1.2 Objective

The objective of this test program was to ensure that the Unisyn OVS device complied with the applicable hardware requirements of the Election Assistance Commission (EAC) 2005 Voluntary Voting System Guidelines (VVSG) as described in this report.

The scope and detail of the test program was tailored to the design and complexity of the hardware submitted for testing. Only results for the required non-operating environmental tests and electrical tests are included in this report.

The tests were designed to evaluate system compliance with the requirements of the VVSG. The examination included hardware tests verifying system performance and function under normal and abnormal conditions.

1.3 References

- Unisyn Voting Solutions, Inc. Purchase Order No. 001834
- EAC 2005 Voluntary Voting System Guidelines, Volume I, Version 1.0, "Voting System Performance Guidelines", and Volume II, Version 1.0, "National Certification Testing Guidelines"
- United States Election Assistance Commission, "Testing and Certification Program Manual 2006, Ver. 1, January 1, 2007"
- MIL-STD-810D "Military Standard Environmental Test Methods and Engineering Guidelines"
- ISO-9001:2008, "Quality Management Systems – Requirements," Edition 4
- ANSI/NCSL Z540-1, "Calibration Laboratories and Measuring and Test Equipment, General Requirements"
- ISO 10012-1, "Quality Assurance Requirements for Measuring Equipment"
- Wyle Laboratories' Quality Assurance Program Manual, Revision 4
- ISO/IEC 17025:2005, "General Requirements for the Competence of Testing and Calibration Laboratories"
- Wyle Laboratories Certification Test Plan No. T56285-01, Rev. B, dated August 10, 2009, Certification Test Plan EAC Application Number UNS0801
- UL Standard for Safety for Information Technology Equipment, UL 60950-1, Second Edition dated March 27, 2007

1.0 INTRODUCTION (continued)

1.4 Test Specimen Description

The test specimen was an OpenElect Voting System, hereinafter referred to as the OVS. The OVS is a paper ballot precinct voting system using touch screen and scan technology to scan and validate ballots, provide voter assisted ballots to accommodate voters with special needs, and tabulate results. The components of the OVS that were subjected to the hardware tests included the following: OpenElect Voting Optical (OVO), OpenElect Voting Interface (OVI), Ballot Box, COTS headphones, and Sip & Puff device. The serial numbers tested are listed in Table 1-1. Photographs of the OVS components taken during the PCA are included in Attachment B.

Table 1-1 OVS EUT Identification

EUT #	OVO Serial Number	OVI Serial Number	Ballot Box Serial Number
1	UNI000001	UNI150003	BB0005
2	UNI000002	UNI150004	BB0004
3	UNI000003	UNI150005	BB0003
4	UNI000004	UNI150006	BB0001
5	UNI000007	UNI150010	BB0002
Sip & Puff Serial Numbers: 0005953, 0005954			

1.5 Test Program Summary

The OVS was subjected to Non-Operating and Operating Environmental Testing, Electrical Testing, and Product Safety Evaluation in accordance with the hardware requirements set forth in the EAC 2005 VVSG. When operation was required during test performance, the OVS was configured as it would be for use in an election precinct.

The OVS was subjected to hardware tests as summarized in Table 1-2.

Table 1-2 Test Program Requirements

VVSG Vol. II Section	Test Description	Results
4.6.2	Bench Handling Test	PASS
4.6.3	Vibration Test	PASS
4.6.4	Low Temperature Test	PASS
4.6.5	High Temperature Test	PASS
4.6.6	Humidity Test	PASS
4.7.1	Temperature/Power Variation Test*	PASS
4.7.1.1	Data Accuracy*	Notice of Anomaly No. 2
4.7.3	Reliability Test*	
4.7.2	Maintainability Test	PASS
4.7.4	Availability Test	PASS
4.8.1	Electrical Power Disturbance Test	PASS
4.8.2	Electromagnetic Radiation Test	PASS
4.8.3	Electrostatic Disruption Test	PASS
4.8.4	Electromagnetic Susceptibility Test	PASS

1.0 INTRODUCTION (continued)

1.5 Test Program Summary (continued)

Table 1-2 Test Program Requirements (continued)

4.8.5	Electrical Fast Transient Test	PASS
4.8.6	Lightning Surge Test	PASS Notice of Anomaly No. 1
4.8.7	Conducted RF Immunity Test	PASS
4.8.8	Magnetic Fields Immunity Test	PASS
4.3.8 (VVSG Vol. I)	Product Safety Review	PASS
3.2.2.2 (VVSG Vol. I)	Audio Testing	PASS Notice of Anomaly No. 3
4.1.2.4 (VVSG Vol. I)	Electrical Supply	PASS

* Performed concurrently

2.0 TEST PROCEDURES AND RESULTS

2.1 Non-Operating Environmental Tests

The OVS was subjected to various Non-Operating Environmental Tests. Prior to and immediately following each test environment, the OVS was powered and subjected to operability functional checks to verify continued proper operation.

The OVS was not powered during the performance of any of the non-operating tests.

2.1.1 Low Temperature Test

The OVS was subjected to a Low Temperature Test in accordance with Section 4.6.2 of Volume II of the VVSG. The purpose of this test was to simulate stresses associated with the storage of voting machines and ballot counters. This test is equivalent to the procedure of MIL-STD-810D, Method 502.2, Procedure I-Storage, with a minimum temperature of -4°F.

Prior to test initiation, the OVS was subjected to a baseline operability checkout to verify system readiness. The OVS was then placed in an environmental test chamber and the chamber temperature was lowered to -4°F and allowed to stabilize. Upon temperature stabilization, the temperature was maintained for an additional four hours. The temperature was then returned to standard laboratory ambient conditions at a rate not exceeding 10°F per minute.

The OVS was removed from the chamber and inspected for any obvious signs of degradation and/or damage. None were observed. The OVS was successfully subjected to a post-test operability checkout.

The OVS successfully completed the requirements of the Low Temperature Test. Photographs of the test setup are presented in Attachment B. The Low Temperature Test Chamber Circular Chart is presented in Attachment C. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.1.2 High Temperature Test

The OVS was subjected to a High Temperature Test in accordance with Section 4.6.5 of Volume II of the VVSG. The purpose of this test was to simulate stresses associated with the storage of voting machines and ballot counters. This test is equivalent to the procedure of MIL-STD-810D, Method 501.2, Procedure I-Storage, with a maximum temperature of 140°F.

Prior to test initiation, the OVS was subjected to a baseline operability checkout to verify system readiness. The OVS was then placed in an environmental test chamber and the chamber temperature was raised to 140°F and allowed to stabilize. Upon temperature stabilization, the temperature was maintained for an additional four hours. The temperature was then returned to standard laboratory ambient conditions at a rate not exceeding 10°F per minute.

The OVS was removed from the chamber and inspected for any obvious signs of degradation and/or damage. None were observed. The OVS was successfully subjected to a post-test operability checkout.

The OVS successfully completed the requirements of the High Temperature Test. Photographs of the test setup are presented in Attachment B. The High Temperature Test Chamber Circular Chart is presented in Attachment C. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.1.3 Vibration Test

The OVS was subjected to a Vibration Test in accordance with Section 4.6.3 of Volume II of the VVSG. The purpose of this test was to simulate stresses faced during transport of voting machines and ballot counters between storage locations and polling places. This test is equivalent to the procedure of MIL-STD-810D, Method 514.3, Category 1- Basic Transportation, Common Carrier.

Prior to test initiation, the OVS was subjected to a baseline operability checkout to verify system readiness. Upon completion, the OVS was secured to an electrodynamics shaker. One control accelerometer was affixed to the shaker table. The OVS was subjected to the Basic Transportation, Common Carrier profile as depicted in MIL-STD-810D, Method 514.3, Category I, with a frequency range from 10 Hz to 500 Hz and an overall rms level of 1.04, 0.74, and 0.20 G for duration of 30 minutes in each orthogonal axis. Upon test completion, the OVS was inspected for any obvious signs of degradation and/or damage. None were observed. The OVS was successfully subjected to a post-test operability checkout.

The OVS successfully completed the requirements of the Vibration Test. Photographs of the test setup are presented in Attachment B. The Vibration Test Data Sheets/Plots are included in Attachment C. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.1.4 Bench Handling Test

The OVS was subjected to a Bench Handling Test in accordance with Section 4.6.2 of Volume II of the VVSG. The purpose of this test was to simulate stresses faced during maintenance and repair of voting machines and ballot counters. This test is equivalent to the procedure of MIL-STD-810D, Method 516.3, Procedure VI.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.1.4 Bench Handling Test (continued)

Prior to performance of the test, the OVS was subjected to a baseline operability checkout. Following the checkout, each edge of the base of the machine was raised to a height of four inches above the surface and allowed to drop freely. This was performed six times per edge, for a total of 24 drops. Upon test completion, the OVS was inspected for any obvious signs of degradation and/or damage. None were observed. The OVS was subjected to a post-test operability checkout and continued operability verified.

The OVS successfully completed the requirements of the Bench Handling Test. Photographs of the test setup are presented in Attachment B. The Bench Handling Test Data Sheet is included in Attachment C. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.1.5 Humidity Test

The OVS was subjected to a Humidity Test in accordance with Section 4.6.6 of Volume II of the VVSG. The purpose of the test was to simulate stresses encountered during storage of voting machines and ballot counters. This test is similar to the procedure of MIL-STD-810D, Method 507.2, Procedure I-Natural Hot-Humid.

The OVS was subjected to a baseline operability checkout to verify system readiness. Upon completion, the OVS was placed in an environmental test chamber and was subjected to a 10-day humidity cycle in accordance with the 24-hour cycle values found in MIL-STD-810D, Method 507.2, Procedure-Natural Hot Humid, as shown in Table 2-1.

Table 2-1 Humidity Test Cycle Values

Time	Hot-Humid (Cycle 1)			Time	Hot-Humid (Cycle 1)		
	Temperature		RH		Temperature		RH
	°F	°C	%		°F	°C	%
0000	88	31	88	1200	104	40	62
0100	88	31	88	1300	105	41	59
0200	88	31	88	1400	105	41	59
0300	88	31	88	1500	105	41	59
0400	88	31	88	1600	105	41	59
0500	88	31	88	1700	102	39	65
0600	90	32	85	1800	99	37	69
0700	93	34	80	1900	97	36	73
0800	96	36	76	2000	94	34	76
0900	98	37	73	2100	97	33	85
1000	100	38	69	2200	90	32	85
1100	102	39	65	2300	89	32	88

Upon test completion, the OVS was inspected for any obvious signs of degradation and/or damage. None were observed. The OVS was successfully subjected to a post-test operability checkout.

The OVS successfully completed the requirements of the Humidity Test. Photographs of the test setup are presented in Attachment B. The Chamber Circular Chart is included in Attachment C. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.2 Electrical Tests

The OVS was subjected to various electrical tests to ensure continued system operation and reliability in the presence of abnormal electrical events. The OVS was powered and actively counting ballots via an automated test script during all electrical tests, allowing for continual ballot processing. Prior to and immediately following each electrical test, an operational status check was performed.

2.2.1 Electrical Power Disturbance Test

Electrical Power Disturbance testing was performed in accordance with Section 4.8 of Volume II of the VVSG. This testing was performed to ensure that the OVS will be able to withstand electrical power line disturbances (dips/surges) without disruption of normal operation or loss of data.

The OVS was configured to run in an automated ballot count test mode, where continual ballot processing would occur during the testing, and subjected to the voltage dips and surges over periods ranging from 20 ms to four hours.

The OVS successfully completed the requirements of the Electrical Power Disturbance Test. Photographs of the test setup are presented in Attachment B. The test data sheet is included in Attachment D. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.2.2 Electromagnetic Radiation Test (FCC Part 15 Emissions)

Electromagnetic Radiation emissions measurements were performed in accordance with Section 4.8 of Volume II of the VVSG. This testing was performed to ensure that emissions emanating from the unit do not exceed the limits of 47 CFR Part 15, Subpart B, Class B Limits. The OVS was configured to run in an automated ballot count test mode, where continual ballot processing would occur during the testing. The OVS was subjected to the test requirements detailed in Table 2-2.

Table 2-2 Conducted and Radiated Emissions Requirements

Conducted Emissions			Radiated Emissions	
Frequency Range (MHz)	Limits (dB μ V)		Frequency Range (MHz)	3 Meter Test Limit (dB μ V)
	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46	30 to 88	40.0
0.50 to 5.0	56	46	88 to 216	43.5
5.0 to 30.0	60	50	216 to 960	46.0
			960 to 1000	54.0

Testing was performed at the Wyle Laboratories' Open Air Test Site 2 (OATS-2) located on the Intergraph Complex in Huntsville, AL. The OATS-2 is fully described in reports provided to the Federal Communication Commission (FCC) (FCC Reference 98597). The site was tested and complies with the requirements of ANSI C63.4-2003.

To perform the Conducted Emissions portion of the test, the OVS was set up as depicted in Figure 2-1.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.2 Electrical Tests (continued)

2.2.2 Electromagnetic Radiation Test (FCC Part 15 Emissions) (continued)

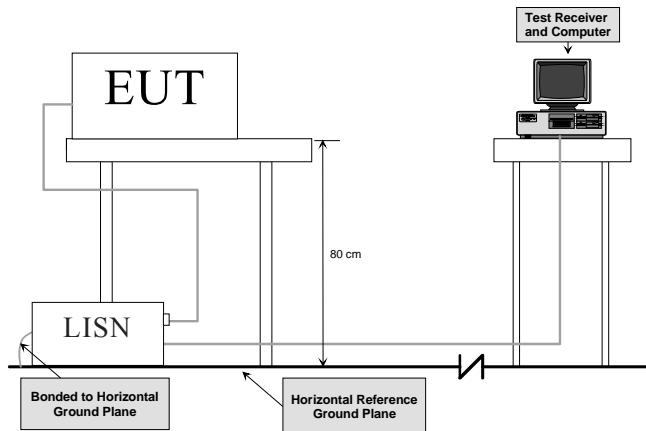


Figure 2-1 Conducted Emissions Test Setup

The OVS was then subjected to the following test procedure:

1. The OVS was placed on a non-metallic table 0.8 meters above the turntable and reference ground plane at the Open-Area Test Site.
2. The OVS AC/DC Power Adapter was connected to the power mains through a Line Impedance Stabilization Network (L.I.S.N.). Other support units were connected to the power mains through another L.I.S.N. The L.I.S.N.s provided 50 ohm/50 μ H of coupling impedance for the measuring instrument.
3. The OVS was placed in an active state and monitored for functionality throughout testing.
4. Both Line and Neutral of the power mains connected to the OVS were checked for maximum conducted interference.
5. The frequency range from 150 kHz to 30 MHz was evaluated and recorded. Emissions levels below – 20 dB were not recorded.

To perform the Radiated Emissions portion of the test, the OVS was set up as depicted in Figure 2-2.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.2 Electrical Tests (continued)

2.2.2 Electromagnetic Radiation Test (FCC Part 15 Emissions) (continued)

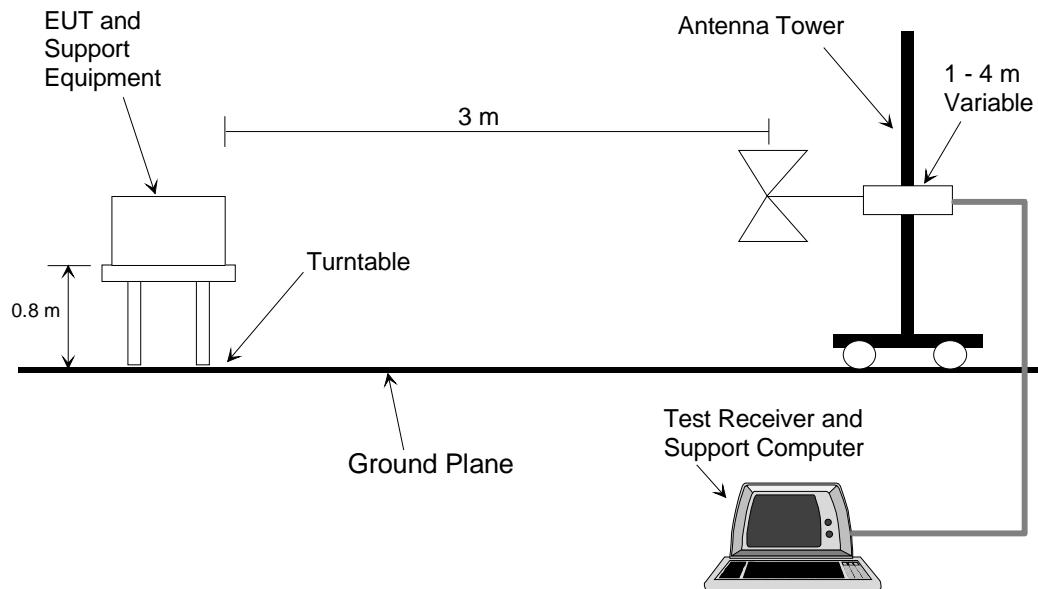


Figure 2-2 Radiated Emissions Test Setup

The OVS was then subjected to the following test procedure:

1. The OVS was placed on a non-metallic turn-table 0.8 meters above the reference ground plane at the Open-Area Test Site.
2. The OVS was placed 3 meters away from the interference-receiving antenna, which was mounted on a variable-height antenna tower. The interference-receiving antenna used was a broadband antenna.
3. For each suspected emissions point, the OVS was arranged in a worst case configuration. The table was rotated from 0 to 360 degrees and the antenna height was varied from one (1) to four (4) meters to identify the maximum reading.
4. All emissions points identified within 20 dB of the specified limit were tested individually using the quasi-peak method as specified and then reported in the tabular data.

The OVS was found to comply with the required emissions limits. Photographs of the test setup are presented in Attachment B. The test data sheet is included in Attachment D. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.2 Electrical Tests (continued)

2.2.3 Electrostatic Disruption Test

Electrostatic Disruption testing was performed in accordance with Section 4.8 of Volume II of the VVSG to ensure that should an electrostatic discharge event occur during equipment setup and/or ballot counting, that the OVS would continue to operate normally. A momentary interruption is allowed so long as normal operation is resumed without human intervention or loss of data.

The OVS was configured to run in an automated ballot count test mode, where continual ballot processing would occur during the testing without operator intervention. The OVS and the EMI measuring equipment were then setup per the following conditions:

1. Power lines and power line returns were configured as required by the system configuration.
2. The EUT was raised approximately 10 cm from the ground using isolated stand-offs.
3. Signal/control test cables were positioned approximately 5 cm (2 in.) above the ground.

The OVS was then subjected to the electrostatic discharge transients listed in Table 2-3. Discharges were performed at areas typical of those which might be touched during normal operation, including the touch screen, user buttons, and other likely points of contact.

Table 2-3 Electrostatic Discharge Transients

Characteristic	Requirements		
	Capacitance	Resistance	Value
Pulse Wave Shape (RC Network)	150 pf	330 Ω	pf / Ω
Test Levels	Discharge Types		Value
	Air Gap	Direct Contact	
	±15	±8	KV
Rise Time	≤ 1		nanosecond
Pulse Decay Time	≈ 30 at 50% height		nanosecond
Pulse Repetition	≥ 1		per second
Total Injected Pulse at each Test Point	10		per polarity (\pm)
Temperature	≥ 15 to ≤ 35		°C
Relative Humidity	≥ 30 to ≤ 60		%

There was no loss of normal operation or loss of data as a result of the applied discharges.

The OVS successfully completed the requirements of the Electrostatic Disruption Test. Photographs of the test setup are presented in Attachment B. The test data sheet is included in Attachment D. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.2 Electrical Tests (continued)

2.2.4 Electromagnetic Susceptibility Test

Electromagnetic Susceptibility testing was performed in accordance with Section 4.8 of Volume II of the VVSG. This testing was performed to ensure that the OVS would be able to withstand a moderate level of ambient electromagnetic fields without disruption of normal operation or loss of data.

The OVS was configured to run in an automated ballot count test mode, where continual ballot processing would occur during the testing without operator intervention. The OVS was then subjected to ambient electromagnetic fields at 10 V/m over a range of 80 MHz to 1000 MHz, as shown in Figure 2-3. Testing was conducted utilizing both horizontally and vertically polarized waves. The limits were measured with a maximum scan rate of 1% of the fundamental frequency and the dwell duration was three seconds.

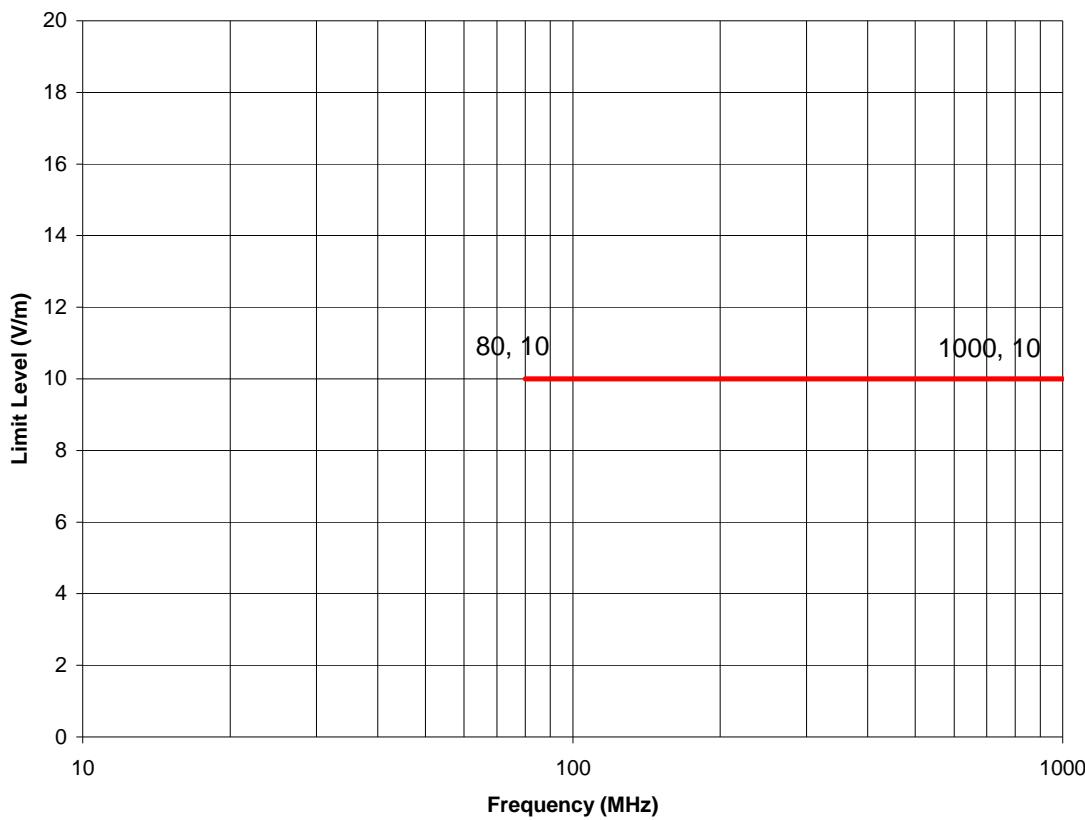


Figure 2-3 Radiated Susceptibility Limit

There was no loss of normal operation or loss of data as a result of the applied electromagnetic fields.

The OVS successfully completed the requirements of the Electromagnetic Susceptibility Test. Photographs of the test setup are presented in Attachment B. The test data sheet is included in Attachment D. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.2 Electrical Tests (continued)

2.2.5 Electrical Fast Transient Test

Electrical Fast Transient (EFT) testing was performed in accordance with Section 4.8 of Volume II of the VVSG to ensure that, should an electrical fast transient event occur on a power line, the OVS would continue to operate without disruption of normal operation or loss of data.

The OVS was configured to run in an automated ballot count test mode, where continual ballot processing would occur during the testing without operator intervention. The OVS was then subjected to electrical fast transients of 2 kV applied to its AC power lines. The pulse characteristics are listed in Table 2-4.

Table 2-4 EFT Pulse Characteristics

Pulse Description	Requirements	Units
Pulse Amplitude	+/-2.0	kV peak to peak
Pulse Rise Time	5 ±30%	nanoseconds
Pulse Width	50 ±30%	nanoseconds
Pulse Repetition Rate	100	kHz
Pulse Shape	Double exponential	--
Burst Duration	15	milliseconds
Burst Period	300	milliseconds
Test Duration	60	seconds

There was no loss of normal operation or loss of data as a result of the applied transients.

The OVS successfully completed the requirements of the Electrical Fast Transient Test. Photographs of the test setup are presented in Attachment B. The test data sheet is included in Attachment D. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.2.6 Lightning Surge Test

Lightning Surge testing was performed in accordance with Section 4.8 of Volume II of the VVSG to ensure that, should a surge event occur on a power line due to a lightning strike, the OVS will continue to operate without disruption of normal operation or loss of data.

The OVS was configured to run in an automated ballot count test mode, where continual ballot processing would occur during the testing. The OVS power input lines were then subjected to lightning surge testing at a level of 2 kV applied to its AC power line per the surge characteristics listed in Table 2-5.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.2 Electrical Tests (continued)

2.2.6 Lightning Surge Test (continued)

Table 2-5 Surge Characteristics

Test I.D.	Cable Type	Number of Interfacing Cables	Description	Injection Signals Summary Characteristics
Surge	Line (L) to Neutral (N)	1	120 VAC Power Lines	Injection at Power Input Sinewave: 0°, 90°, and 270°
	Line (L) to (G)	1		Combination Wave Test Levels: ±2.0 kV and Ring Wave Test Level = ±2.0 kV
	Neutral (N) to Ground (G)	1		
	Line (L) & Neutral (N) to Ground (G)	1		

As the +2 kV lightning pulse was applied, the automated ballot test count mode stopped and the UPS switched to battery backup (reference Notice of Anomaly No. 1, presented in Attachment A, for further details). It was determined that the surge rating on the UPS was not adequate to pass the test requirements. Therefore, an alternate UPS was used with a higher surge rating and testing was repeated with no further anomalies.

The OVS successfully completed the requirements of the Lightning Surge Test. Photographs of the test setup are presented in Attachment B. The test data sheet is included in Attachment D. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.2.7 Conducted RF Immunity Test

Conducted RF Immunity testing was performed in accordance with Section 4.8 of Volume II of the VVSG. This testing was performed to ensure that the OVS will be able to withstand conducted RF energy onto its power lines without disruption of normal operation or loss of data.

The OVS was configured to run in an automated ballot count test mode, where continual ballot processing would occur during the testing without operator intervention. The OVS was then subjected to conducted RF energy of 10 Vrms applied to its power lines over a frequency range of 150 kHz to 80 MHz.

There was no loss of normal operation or loss of data as a result of the applied conducted RF energy. Photographs of the test setup are presented in Attachment B. The test data sheet is included in Attachment D. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.2 Electrical Tests (continued)

2.2.8 Magnetic Fields Immunity Test

Magnetic Fields Immunity testing was performed in accordance with Section 4.8 of Volume II of the VVSG. This testing was performed to ensure that the OVS will be able to withstand AC magnetic fields without disruption of normal operation or loss of data.

The OVS was configured to run in an automated ballot count test mode, where continual ballot processing would occur during the testing. The OVS was then subjected to AC magnetic fields of 30 A/M at a 60 Hz power line frequency.

There was no loss of normal operation or loss of data as a result of the applied magnetic field.

The OVS successfully completed the requirements of the Magnetic Fields Immunity Test. Photographs of the test setup are presented in Attachment B. The test data sheet is included in Attachment D. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.2.9 Electrical Supply Test

Electrical Supply Testing was performed in accordance with Section 4.1.2.4 of Volume I of the VVSG. This test was performed to ensure that the OVS will continue to provide the capability for any voter who is voting at the time of a failure of the main power supply external to the voting system to complete the casting of a ballot. Additionally, it is required that the voting system perform a successful shutdown of without loss or degradation of the voting and audit data, and allow voters to resume voting once the voting system has reverted to back-up power.

To perform the test, the OVS was configured as for normal operation. The OVS was then operated as designed for fifteen minutes prior to the removal of the AC input power. The OVS was then continuously operated for at least two hours until the shutdown was performed. AC power was then restored and the system was operated for an additional fifteen minutes. For testing of the OVI, it was verified that the audio ballot was active throughout the 2-hour period and a total of five audio ballots were cast. For testing of the OVCS, it was verified that a successful shutdown was performed following loss of power.

The OVS successfully completed the requirements of the Electrical Supply Test. Photographs of the test setup are presented in Attachment B. The test data sheet is included in Attachment D. The Instrumentation Equipment Sheet for the test is contained in Attachment G.

2.3 Operating Environmental Tests

2.3.1 Temperature/Power Variation Test/Data Accuracy/Reliability Test

The OVS was subjected to a Temperature and Power Variation Test in accordance with Section 4.7.1 of Volume II of the VVSG. Data Accuracy and Reliability Testing (per Sections 4.7.1.1 and 4.7.3, respectively, of Volume II of the VVSG) were performed in conjunction with the Temperature/Power Variation Test. The purpose of these tests was to evaluate OVS operation under various environmental conditions. The total cumulative duration of the test was at least 163 hours, with 48 hours in the environmental test chamber. For the remaining hours, the equipment was operated at room temperature. This test is similar to the low temperature and high temperature tests of MIL-STD-810-D, Method 502.2 and Method 501.2.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.3 Operating Environmental Tests (continued)

2.3.1 Temperature/Power Variation Test/Data Accuracy/Reliability Test (continued)

To perform the test, four OVS systems were placed inside an environmental walk-in test chamber and connected to a variable voltage power source. Three systems were configured to scan ballots and one system was configured to generate audio ballots only. The temperature inside the chamber and the voltage supplied to the hardware varied from 50°F to 95°F and from 105 VAC to 129 VAC (as depicted in Figures 2-4 through 2-7). During test performance, the operational functions were continuously exercised by the scanning of ballots and the generation of ballots via audio voting. A minimum of 100 ballots per hour were scanned.

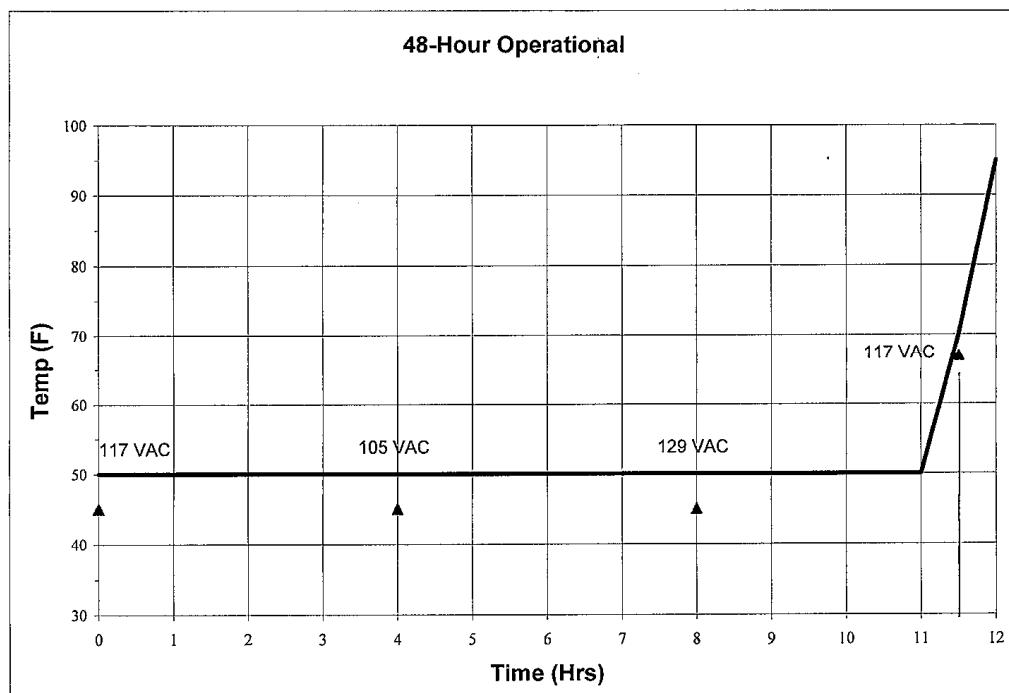


Figure 2-4 Temperature/Power Variation Profile Hours 0-12

2.0 TEST PROCEDURES AND RESULTS (continued)

2.3 Operating Environmental Tests (continued)

2.3.1 Temperature/Power Variation Test/Data Accuracy/Reliability Test (continued)

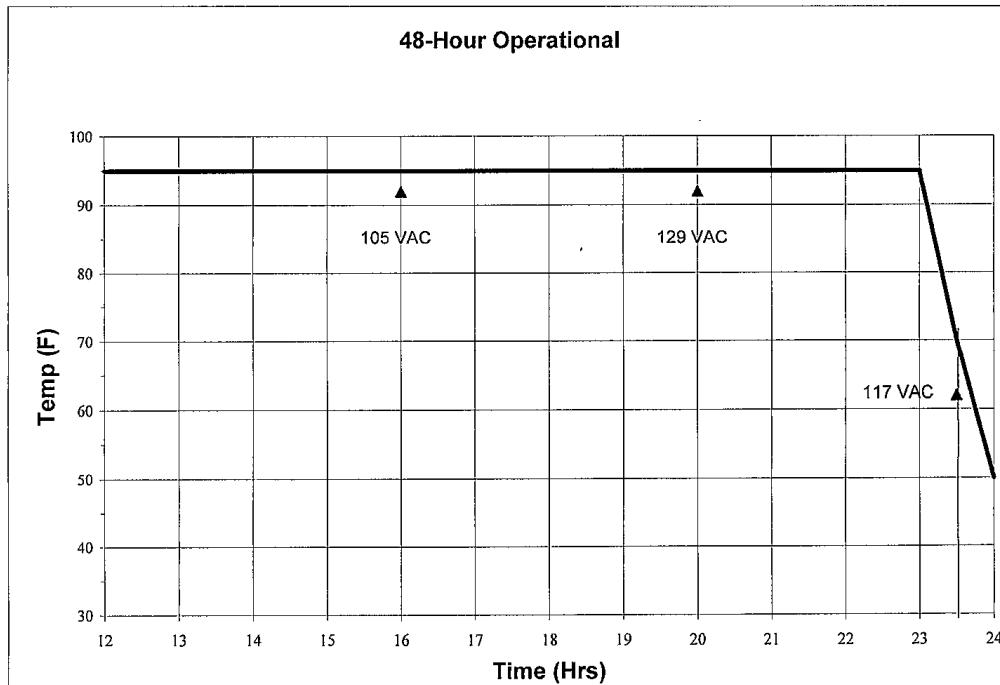


Figure 2-5 Temperature/Power Variation Profile Hours 12-24

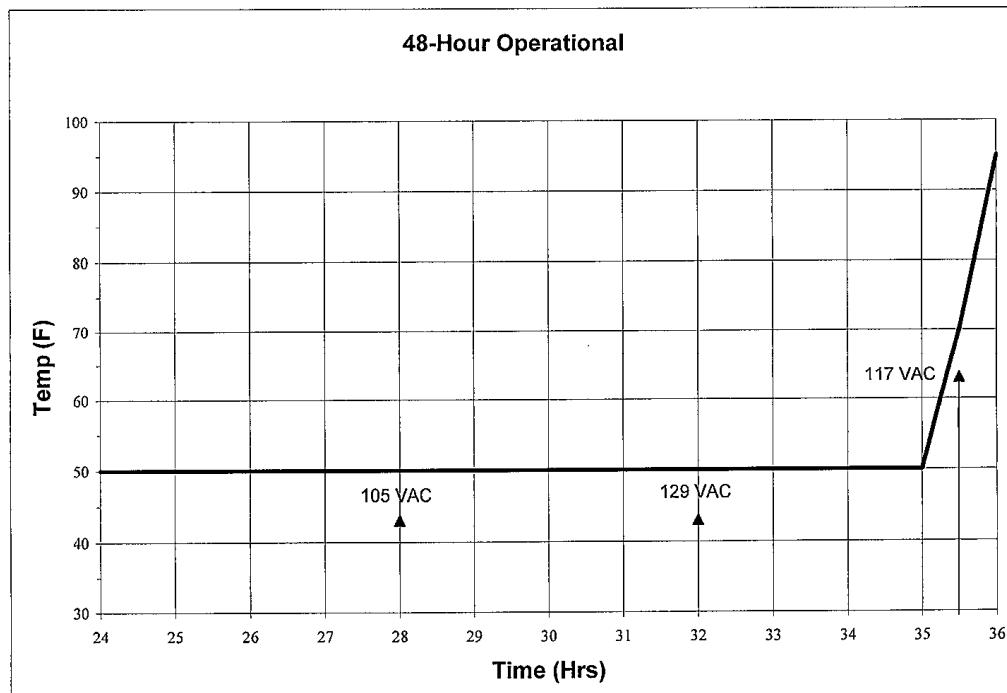


Figure 2-6 Temperature/Power Variation Profile Hours 24-36

2.0 TEST PROCEDURES AND RESULTS (continued)

2.3 Operating Environmental Tests (continued)

2.3.1 Temperature/Power Variation Test/Data Accuracy/Reliability Test (continued)

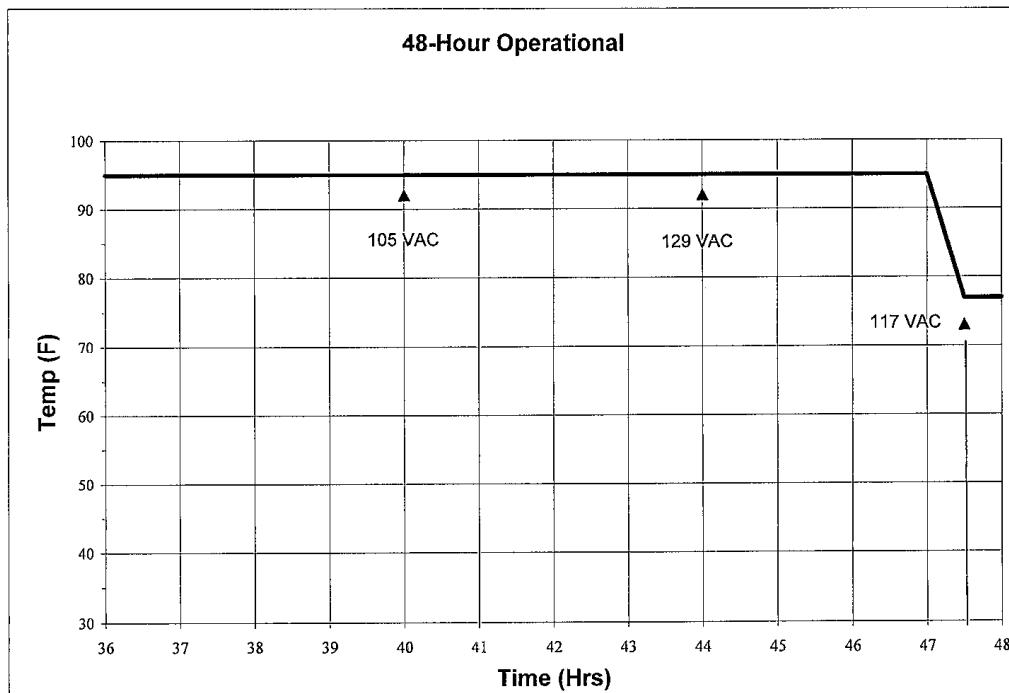


Figure 2-7 Temperature/Power Variation Profile Hours 36-48

Three test runs were attempted with anomalies occurring during test performance prior to a successful test run. Descriptions of each test run are provided along with further detail in Notice of Anomaly No. 2, located in Attachment A of this report. At final test conclusion, operational status checks were performed.

The OVS successfully completed the requirements of the Temperature/Power Variation, Data Accuracy, and Reliability Tests. The Environmental Test Data which consists of the Chamber Thermal Circular Charts are included in Attachment E. Test setup photographs are included in Attachment B. The Instrumentation Equipment Sheet for the test is presented in Attachment G.

2.3.2 Maintainability Test

Maintainability Testing was performed in accordance with Section 4.7.2 of Volume II of the VVSG. This test was performed to evaluate the ease with which preventive and corrective maintenance actions can be performed based on the design characteristics of equipment and software and the processes the vendor and election officials have in place for preventing failures and for reacting to failures. It includes the ability of equipment and software to self-diagnose problems and make non-technical election workers aware of a problem and addresses all scheduled and unscheduled events which are performed to determine operational status and make component adjustments or repairs.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.3 Operating Environmental Tests (continued)

2.3.2 Maintainability Test (continued)

The OVS was evaluated with the appropriate vendor documentation (Unisyn Voting Solutions, Inc. Document 04-00459, Version 1.1: System Maintenance Procedures) and maintainability was determined based on the presence of specific physical attributes that aid system maintenance activities, and the ease with which system maintenance tasks were able to be performed.

Any difficulties in performing maintenance activities as described in the system maintenance procedures were noted. A listing of all impediments or difficulties encountered were compiled as findings and delivered to Unisyn Voting Solutions, Inc. for resolution.

2.3.3 Audio Test (Acoustic Level and Hearing Aide Compatibility)

Audio Testing was performed to verify that the amount of noise emitted by the voting machine under normal operating conditions does not interfere with the duties of the election inspectors or voting public and that the voting system achieves at least an ANSI C63.19 category T4 rating for a wireless T-coil coupling for assistive hearing devices. To meet these requirements, the machine shall provide an adjustable volume control from 20 to 100 dB SPL in 10 dB increments with the initial volume level set between 40 to 50 dB, and shall reproduce frequencies over the audible speech range of 315 Hz to 10 kHz.

To perform the test, the OVS was placed inside a semi-anechoic test chamber and configured as would be for normal operation. One side of the system's headphones was placed at the specified positions and orientations from the T-coil probe. Electromagnetic Coupling and interference from the headphones was measured and recorded. Sound Pressure Level (SPL) was then measured with microphones placed 1.2 meters above the floor and 2 meters from the voting system with the voting system operating. The initial available volume and the adjustable volume level from the headphones were also measured.

The initial volume level was measured to be greater than the maximum accepted level of 50 dB. ILTS was notified of the anomaly and performed a source code revision to adjust the initial volume setting (reference Notice of Anomaly No. 3 presented in Attachment A for further details). The test was then repeated and the initial volume setting was measured to be 47.2 dBA, which is within the allowable range.

Photographs of the test setup are presented in Attachment B. The Test data sheet is included in Attachment E. The Instrumentation Equipment Sheet for the test is presented in Attachment G.

2.3.4 Availability Test

The availability of a voting system is defined as the probability that the equipment (and supporting software) needed to perform designated voting functions will respond to operational commands and accomplish the function. System availability is measured as the ratio of the time during which the system is operational (up time) to the total time period of operation (up time plus down time). Inherent availability (A_i) is the fraction of time a system is functional, based upon Mean Time Between Failure (MTBF) and Mean Time To Repair (MTTR), that is: $A_i = (MTBF)/(MTBF + MTTR)$.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.3 Operating Environmental Tests (continued)

2.3.4 Availability Test (continued)

The adequacy of the OVS availability was assessed during the performance of the following voting functions:

- a. For all paper-based systems:
 - i. Recording voter selections (such as by ballot marking)
 - ii. Scanning the marks on paper ballots and converting them into digital data
- b. For all DRE systems, recording and storing voter ballot selections
- c. For precinct count systems (paper-based and DRE), consolidation of vote selection data from multiple precinct based systems to generate jurisdiction-wide vote counts, including storage and reporting of the consolidated vote data
- d. For central-count systems (paper-based and DRE), consolidation of vote selection data from multiple counting devices to generate jurisdiction-wide vote counts, including storage and reporting of the consolidated vote data

During the hardware testing, there were three anomalies encountered (reference Notice of Anomaly Nos. 1, 2, and 3 in Attachment A for further reference), none of which constituted a hardware failure that caused voting system hardware to be unavailable for normal operation. Additionally, during the 163-hour operational test, there were no hardware failures. Therefore, it was determined that the voting system achieved at least 99 percent availability during normal operation for the applicable functions of the system during the test campaign.

2.4 Product Safety Review

The VVSG states that all voting systems shall meet the following requirements for safety:

- a. All voting systems and their components shall be designed to eliminate hazards to personnel or to the equipment itself.
- b. Defects in design and construction that can result in personal injury or equipment damage must be detected and corrected before voting systems and components are placed into service.
- c. Equipment design for personnel safety shall be equal to or better than the appropriate requirements of the Occupational Safety and Health Act, Code of Federal Regulations, Title 29, Part 1910.

To satisfy these requirements, one OVS (OVO S/N UNI000003, OVI S/N UNI150005) was subjected to a Product Safety Review in accordance with the applicable requirements of "UL Standard for Safety for Information Technology Equipment, UL 60950-1", Second Edition, dated March 27, 2007.

2.0 TEST PROCEDURES AND RESULTS (continued)

2.4 Product Safety Review (continued)

The following performance tests were conducted in addition to construction evaluation and evaluation for protection against injury to persons.

Table 2-6 Performance Tests

Test Description	Clause	Result
Input Current	1.6.2	Compliant
Durability	1.7.11	Compliant
Access to Energized Parts	2.1.1.1	Compliant
Temperature Tests	4.5.2	Compliant
Touch Current	5.1	Compliant
Electric Strength	5.2	Compliant

Non-performance evaluation of the accompanying documentation and unit construction were also performed. No anomalies were discovered during these evaluations.

The OVS was found to be in compliance with the applicable requirements of the Standard for Safety for Information Technology Equipment UL 60950-1, 2nd Edition. The Product Safety Review data, including the test process photographs, is presented in Attachment F.

3.0 TEST RESULTS AND RECOMMENDATION

It was demonstrated that the OVS, as tested, successfully met the hardware test requirements of the EAC 2005 VVSG.

This evaluation report/recommendation is valid only for the items listed in Section 3.0 of this report. Any changes, revisions, or corrections made to the product after this evaluation shall be reevaluated, and a revised report/recommendation will be issued.

Any anomalies encountered during qualification testing were successfully resolved prior to test completion. All Notice of Anomalies generated during testing are presented in Attachment A.

Due to the varying requirements of individual jurisdictions, it is recommended by the VVSG that local jurisdictions perform pre-election logic and accuracy tests on all systems prior to their use in an election within their jurisdiction.

4.0 TEST EQUIPMENT AND INSTRUMENTATION

All instrumentation, measuring, and test equipment used in the performance of this test program was calibrated in accordance with Wyle Laboratories' Quality Assurance Program which complies with the requirements of ANSI/NCSL Z540-1, ISO 10012-1, and ISO/IEC 17025. Standards used in performing all calibrations are traceable to the National Institute of Standards and Technology (NIST) by report number and date. When no national standards exist, the standards are traceable to international standards or the basis for calibration is otherwise documented.

5.0 QUALITY ASSURANCE PROGRAM

All work performed on this program was in accordance with Wyle Laboratories' Quality Assurance Program and Wyle Laboratories' Quality Program Manual, which conforms to the applicable portions of International Standard Organization (ISO) Guide 17025.

The Wyle Laboratories, Huntsville Facility, Quality Management System is registered in compliance with the ISO-9001 International Quality Standard. Registration has been completed by Quality Management Institute (QMI), a Division of Canadian Standards Association (CSA).

ATTACHMENT A

NOTICES OF ANOMALY NOS. 1, 2 AND 3



ORIGINAL NOTICE OF ANOMALY		DATE: 12 May 2009
NOTICE NO: <u>1</u>	P.O. NUMBER: <u>001834</u>	CONTRACT NO: <u>N/A</u>
CUSTOMER: <u>ILTS/Unisyn</u>		WYLE JOB NO: <u>T56285</u>
NOTIFICATION MADE TO: <u>Chris Ortiz</u>		NOTIFICATION DATE: <u>4 May 2009</u>
NOTIFICATION MADE BY: <u>Wendy Owens</u>		VIA: <u>Phone</u>
CATEGORY: <input checked="" type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> TEST EQUIPMENT	DATE OF ANOMALY: <u>4 May 2009</u>	
PART NAME: <u>OpenElect Voting System</u>	PART NO.	<u>UNI000001</u>
TEST: <u>Lightning Surge</u>	I.D. NO.	<u>N/A</u>
SPECIFICATION: <u>Voting System Performance Guidelines (2005)</u>	PARA. NO.	<u>4.1.2.7</u>
REQUIREMENTS:		
Vote scanning and counting equipment for paper-based systems, and all DRE equipment, shall be able to withstand, without disruption of normal operation or loss of data, surges of:		
± 2 kV AC line to line		
± 2 kV AC line to earth		
DESCRIPTION OF ANOMALY:		
The OpenElect Voting System was operated in a simulated voting configuration, the ballot reader was in a shoeshine mode and the audio option was active. A +2 kV lightning pulse at 0°, line to line, was applied to the OpenElect Voting System. As the +2 kV lightning pulse was applied the UPS would switch to battery backup, the ballot reader would stop the shoeshine mode and audio would cut on and off.		
DISPOSITION • COMMENTS • RECOMMENDATIONS:		
The results were documented and the customer informed of the anomaly. The customer informed Wyle Laboratories that they are sending a UPS with a higher surge rating to resume testing.		
Safety Related <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Potential 10 CFR Part 21 <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A		
RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: <input type="checkbox"/> CUSTOMER <input type="checkbox"/> WYLE		
CAR Required: <input type="checkbox"/> YES <input type="checkbox"/> NO CAR No. _____		
VERIFICATION: PROJECT ENGINEER: <u>W. Bush 5/12/09</u> TEST WITNESS: <u>N/A</u> PROJECT MANAGER: <u>Rahel Thang 5/12/09</u> REPRESENTING: <u>N/A</u> INTERDEPARTMENTAL COORDINATION: _____		
QUALITY ASSURANCE: <u>Brandi Moore 5/12/09</u>		



ORIGINAL		NOTICE OF ANOMALY	DATE: 12/02/09
NOTICE NO:	2	P.O. NUMBER:	001834
CUSTOMER:	ILTS/Unisyn	CONTRACT NO:	N/A
NOTIFICATION MADE TO:	Chris Ortiz	WYLE JOB NO:	T56285
NOTIFICATION MADE BY:	W. Owens	NOTIFICATION DATE:	10/28/09
		VIA:	verbally
CATEGORY:	<input checked="" type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> TEST EQUIPMENT	DATE OF ANOMALY:	(see below)
PART NAME:	OpenElect Voting System	PART NO.	(see below)
TEST:	Temperature and Power Variation	I.D. NO.	(see below)
SPECIFICATION:	EAC 2005 VVSG	PARA. NO.	4.7.1

REQUIREMENTS:

The EUT shall not demonstrate any signs of operational failure or degradation of performance when subjected to a Temperature and Power Variation Test in accordance with section 4.7.1 of Volume II of the VVSG. The purpose of this test is to evaluate system operation under various environmental conditions. The duration of the test is 163 hours, with 48 hours in the environmental test chamber. For the remaining hours, the equipment may be operated at room temperature. This test is similar to the low temperature and high temperature tests of MIL-STD-810-D, Method 502.2 and Method 501.2.

To perform the test, the EUT shall be placed inside an environmental walk-in test chamber and connected to a variable voltage power source. The temperature inside the chamber and the voltage supplied to the hardware shall be varied from 40°F to 100°F and from 105 VAC to 129 VAC. During test performance, the operational functions shall be continuously exercised by the scanning of ballots and the generation of ballots via audio voting. A minimum of 100 ballots per hour shall be scanned.

The following EUT serial numbers shall be tested:

EUT 1	EUT 2	EUT 3*	EUT 4
OVO UNI000004	OVO UNI000002	OVO UNI000003	OVO UNI000001
OVI UNI150006	OVI UNI150004	OVI UNI150005	OVI UNI150003

*configured to generate audio ballots only



NOTICE OF ANOMALY		DATE:			
NOTICE NO:	2	P.O. NUMBER:	001834	CONTRACT NO:	N/A
CUSTOMER:	ILTS/Unisyn		WYLE JOB NO: T56285		
NOTIFICATION MADE TO:	Chris Ortiz		NOTIFICATION DATE: (see below)		
NOTIFICATION MADE BY:	W. Owens		VIA: verbally		
DESCRIPTION OF ANOMALY:					
Anomalies occurred during the first three test runs of the Temperature/Power Variation Test. Summaries of each run are provided below.					
<u>Run 1</u>	Testing commenced on 8/5/09. During test performance it was discovered that multifeeds and ballot misfeeds had occurred causing the machine totals to be incorrect. The test was restarted with no modifications made to the EUT configurations. However, tighter controls were added to the voting procedures exercised during test performance to control ballot handling.				
<u>Run 2</u>	Testing commenced on 9/9/09. During test performance it was discovered that multifeeds had occurred causing the machine totals to be incorrect. The test was halted due to the failures.				
<u>Run 3</u>	Testing commenced on 10/9/09. The test was inadvertently halted due to an unexpected "Special Handling Required" notification received by the tester.				



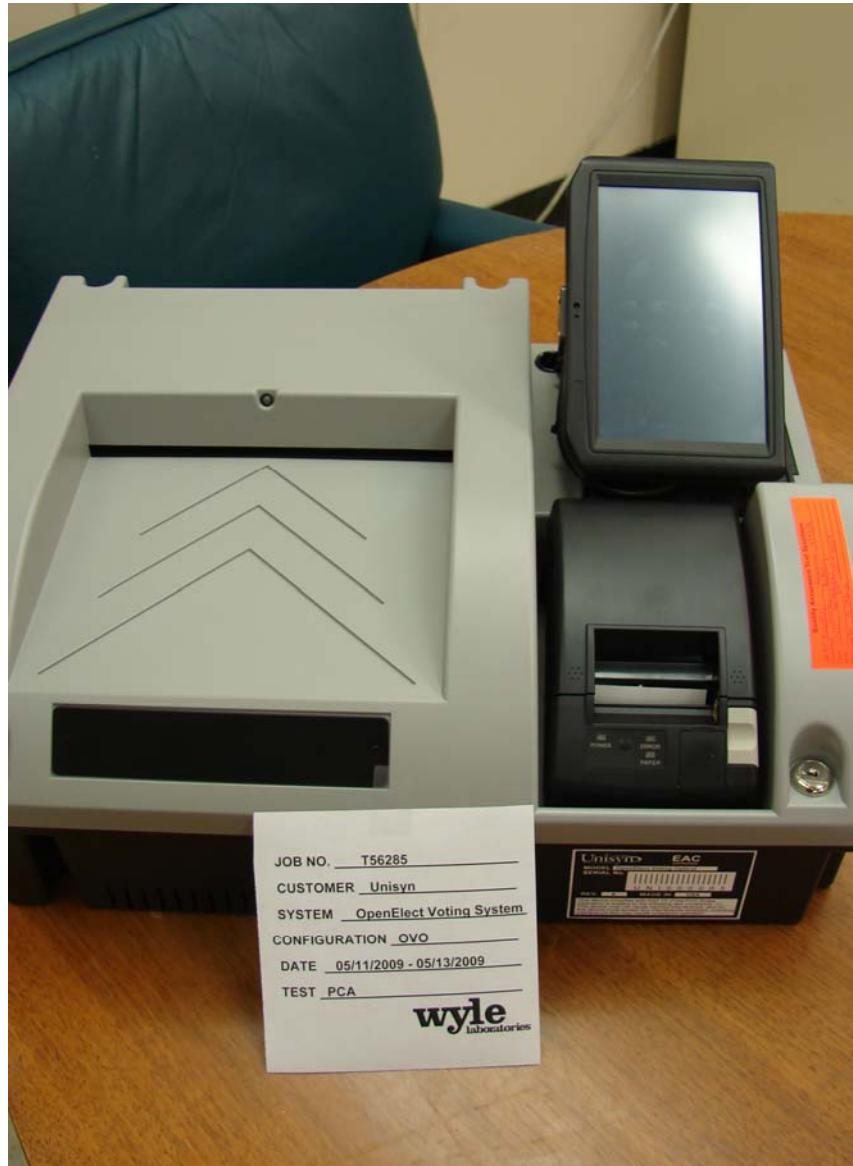
NOTICE OF ANOMALY		DATE:				
NOTICE NO: 2	P.O. NUMBER: 001834	CONTRACT NO: N/A				
CUSTOMER: ILTS/Unisyn	WYLE JOB NO: T56285					
NOTIFICATION MADE TO: Chris Ortiz	NOTIFICATION DATE: (see below)					
NOTIFICATION MADE BY: W. Owens	VIA: verbally					
DISPOSITION • COMMENTS • RECOMMENDATIONS:						
The test was successfully completed following the fourth test run. A summary of the test is provided below.						
Run 4 Testing commenced on 10/20/09. Prior to test initiation, a specially designed gate was installed on each OVO to prevent multifeeds. A ballot handling error was experienced by the tester on EUT 3. This unit was quarantined due to suspect data. The test was extended to 84 hours to compensate for the reduction in the number of units being tested. The test was completed with no anomalies. Testing did continue on the suspect machine to ensure that tester error had been the cause of the anomaly.						
Safety Related	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	Potential 10 CFR Part 21	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: <input type="checkbox"/> CUSTOMER <input type="checkbox"/> WYLE						
CAR Required:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	CAR No.			
VERIFICATION:	PROJECT ENGINEER: <u>Wendy Owens 12/2/09</u>					
TEST WITNESS:	PROJECT MANAGER: <u>Chris Marshall 12/1</u>					
REPRESENTING:	INTERDEPARTMENTAL COORDINATION: _____					
QUALITY ASSURANCE:	<u>M. Hallay 12/1/09</u>					



ORIGINAL	NOTICE OF ANOMALY	DATE: 12/03/09
NOTICE NO: 3	P.O. NUMBER: 001834	CONTRACT NO: N/A
CUSTOMER: ILTS/Unisyn	WYLE JOB NO: T56285	
NOTIFICATION MADE TO: Chris Ortiz	NOTIFICATION DATE: 8/14/09	
NOTIFICATION MADE BY: Wendy Owens	VIA: verbally	
CATEGORY: <input checked="" type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> TEST EQUIPMENT	DATE OF ANOMALY: 8/14/09	
PART NAME: OVI	PART NO. UNI150003	
TEST: Acoustic Level and Hearing Aid Compatability	I.D. NO. ---	
SPECIFICATION: EAC 2005 VVSG, Volume I	PARA. NO. Sec. 3.2.2.2	
REQUIREMENTS:		
The machine shall provide an adjustable volume control from 20 to 100 dB SPL in 10 dB increments with the initial volume level set between 40 to 50 dB, and shall reproduce frequencies over the audible speech range of 315 Hz to 10KHz.		
DESCRIPTION OF ANOMALY:		
The initial volume level was measured to be greater than the maximum accepted level of 50 dB.		
DISPOSITION • COMMENTS • RECOMMENDATIONS:		
ILTS was notified of the anomaly and performed a source code revision to adjust the initial volume setting. The test was then repeated and the initial volume setting was measure to be 47.2 dBA, which is within the allowable range.		
Safety Related <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Potential 10 CFR Part 21 <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A		
RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: <input type="checkbox"/> CUSTOMER <input type="checkbox"/> WYLE		
CAR Required: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO CAR No.		
VERIFICATION: PROJECT ENGINEER: <u>Wendy Owens 12/3/09</u>		
TEST WITNESS: <u>---</u> PROJECT MANAGER: <u>Julie Radell 12/3/09</u>		
REPRESENTING: <u>---</u> INTERDEPARTMENTAL COORDINATION: <u>---</u>		
QUALITY ASSURANCE: <u>M. Phelps 12/14/09</u>		

ATTACHMENT B

PHOTOGRAPHS



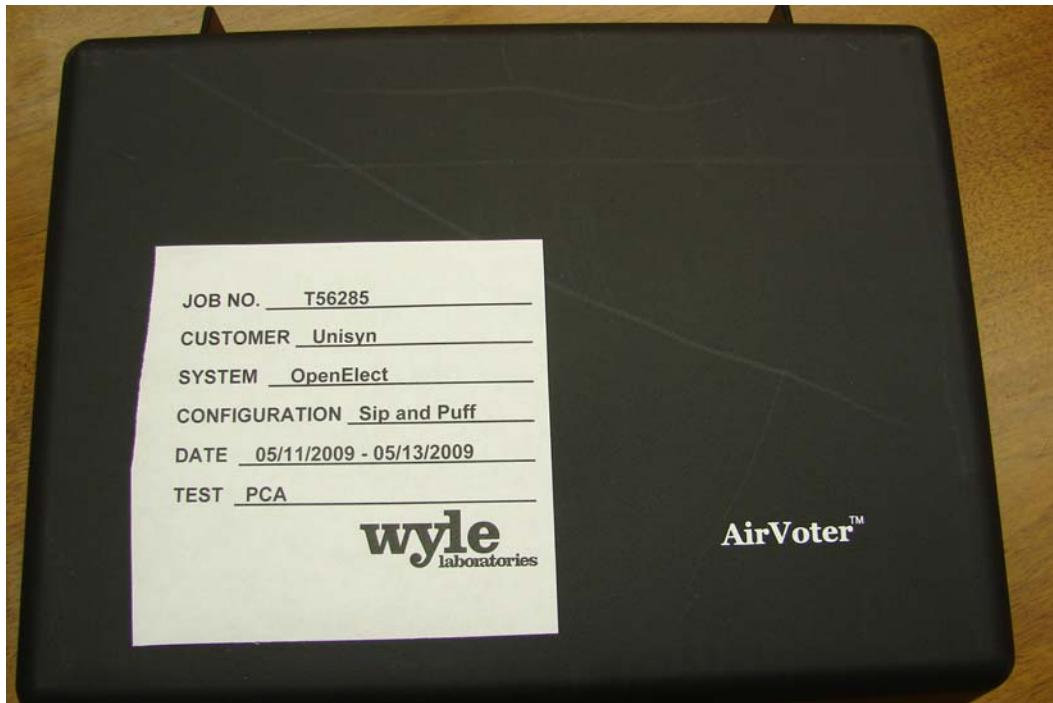
Photograph No. 1
OVS OVO



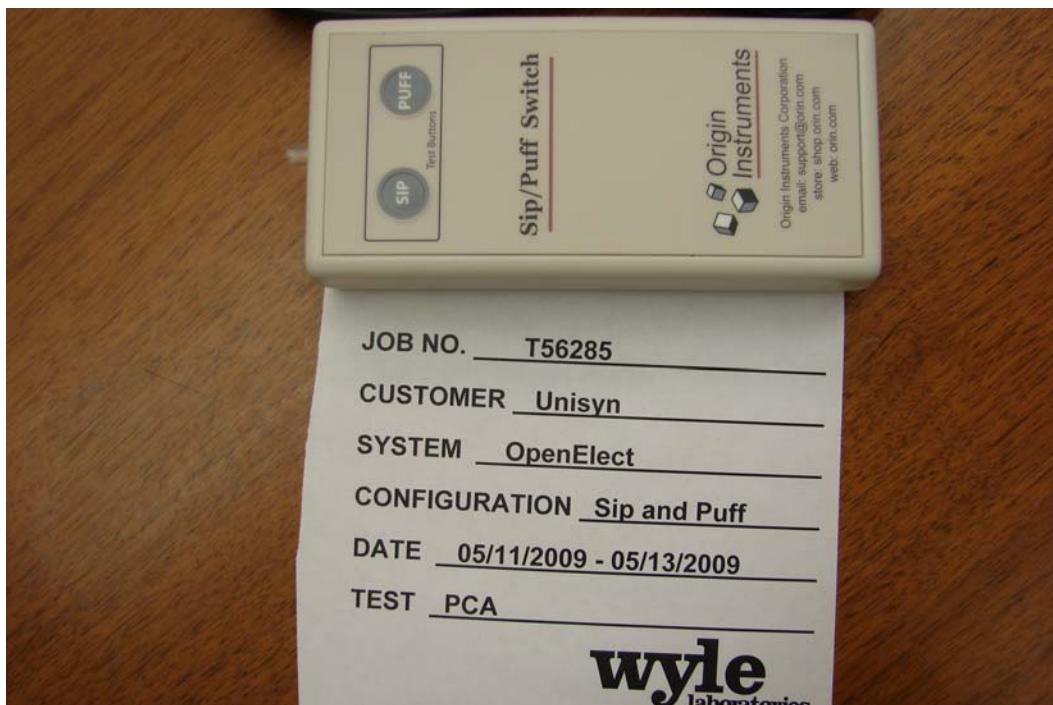
Photograph No. 2
OVS OVI



Photograph No. 3
OVS Ballot Box



Photograph No. 4
OVS Sip & Puff



Photograph No. 5
OVS Sip & Puff



Photograph No. 6

Low/High Temperature Test Setup



Photograph No. 7
Vibration Test Setup (Vertical Axis)



Photograph No. 8
Vibration Test Setup (Longitudinal Axis)



Photograph No. 9
Vibration Test Setup (Lateral Axis)



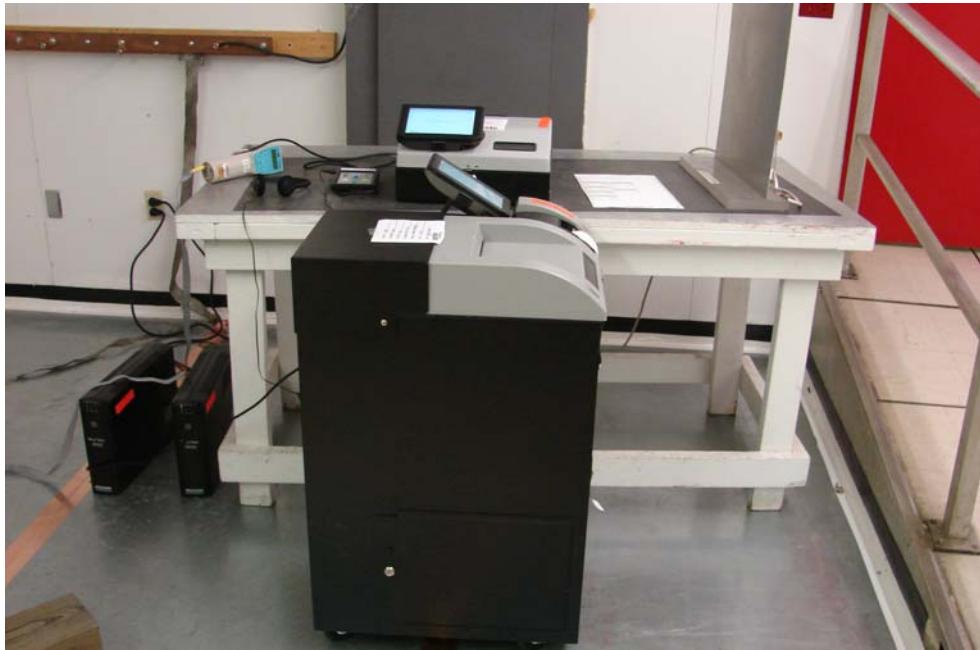
Photograph No. 10
Bench Handling Test Setup



Photograph No. 11
Humidity Test Setup



Photograph No. 12
Electrostatic Discharge Test Setup



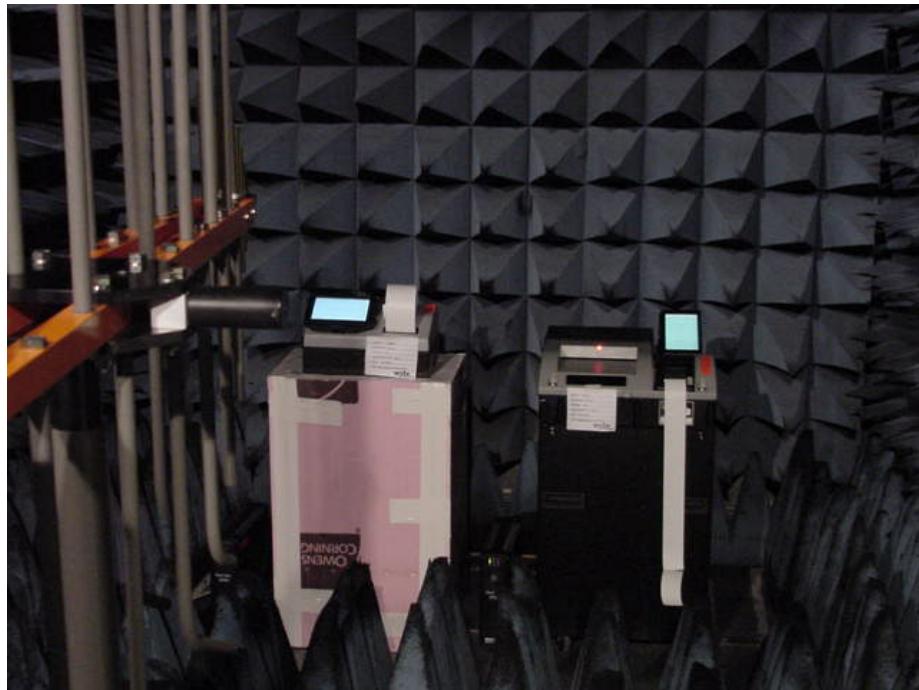
Photograph No. 13
Electrostatic Discharge Test Setup



Photograph No. 14
Electrostatic Discharge Test



Photograph No. 15
Electromagnetic Susceptibility Test Setup



Photograph No. 16
Electromagnetic Susceptibility Test Setup



Photograph No. 17
Electromagnetic Susceptibility Test Setup



Photograph No. 18
Electrical Power Disturbance Test Setup



Photograph No. 19
Electrical Fast Transient Test Setup



Photograph No. 20
Electrical Fast Transient Test Setup



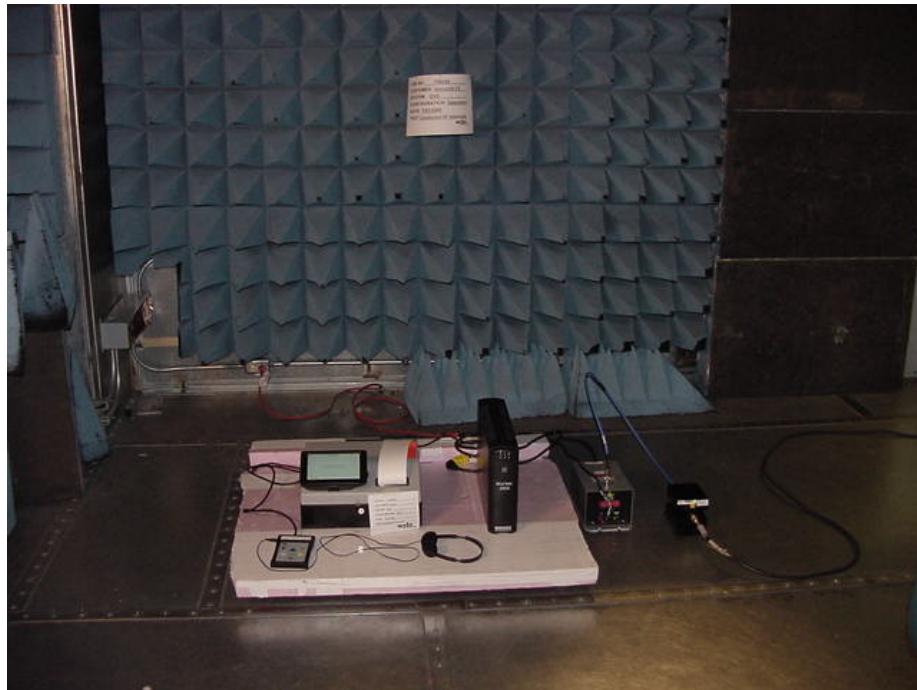
Photograph No. 21
Lightning Surge Test Setup



Photograph No. 22
Lightning Surge Test Setup



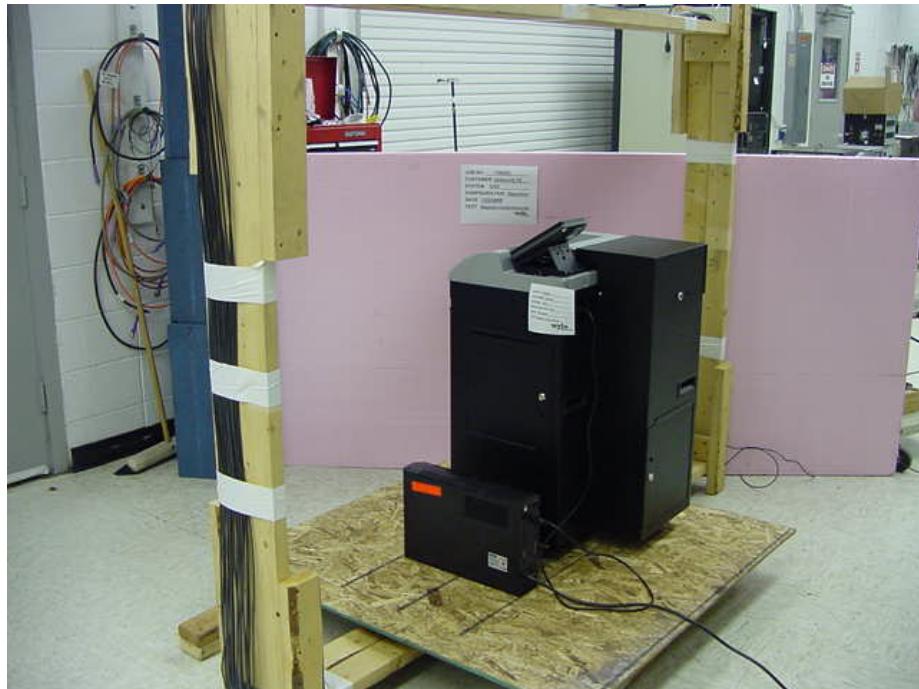
Photograph No. 23
Conducted RF Immunity Test Setup



Photograph No. 24
Conducted RF Immunity Test Setup



Photograph No. 25
Magnetic Fields Immunity Test Setup



Photograph No. 26
Magnetic Fields Immunity Test Setup



Photograph No. 27
Magnetic Fields Immunity Test Setup



Photograph No. 28
Magnetic Fields Immunity Test Setup



Photograph No. 29
Magnetic Fields Immunity Test Setup



Photograph No. 30
Magnetic Fields Immunity Test Setup



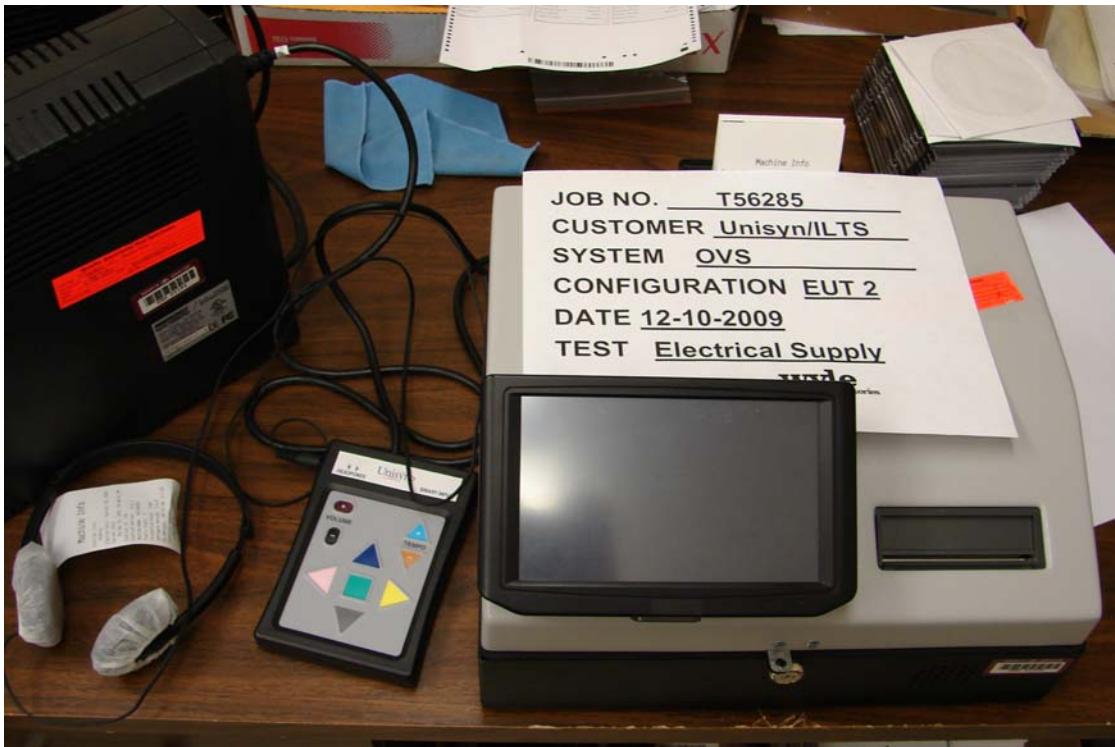
Photograph No. 31
Electromagnetic Radiation (FCC Part 15) Test Setup



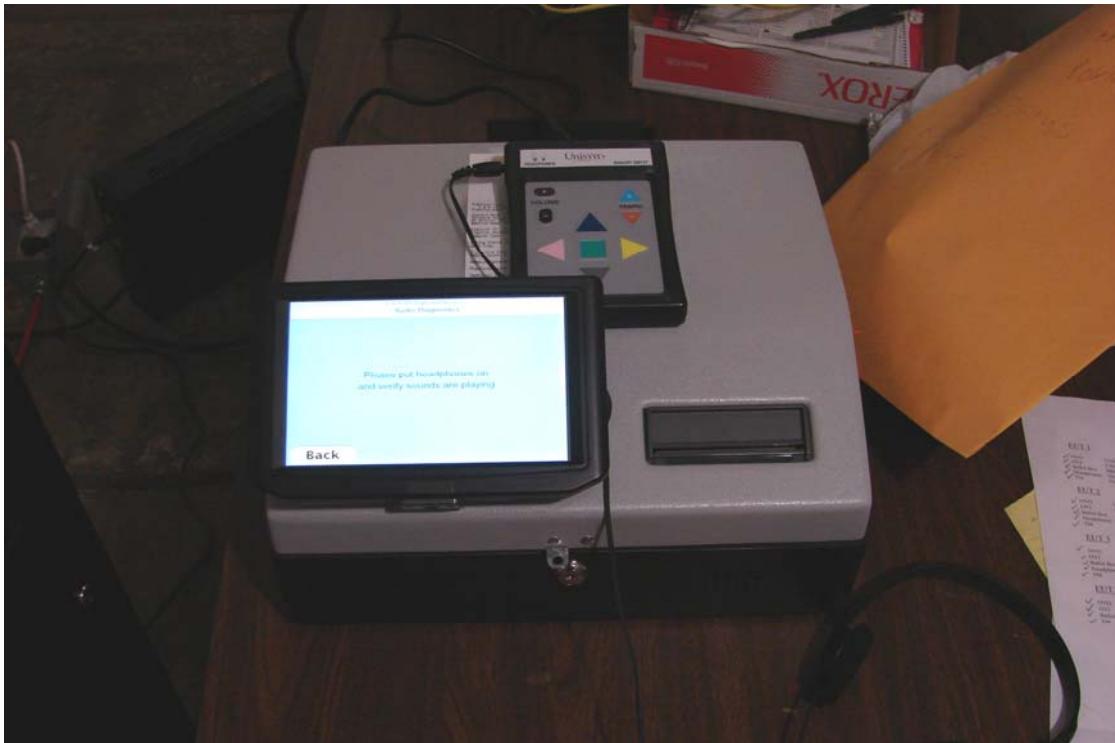
Photograph No. 32
Electromagnetic Radiation (FCC Part 15) Test Setup



Photograph No. 33
Electrical Supply Test Setup



Photograph No. 34
Electrical Supply Test Setup



Photograph No. 35
Temperature/Power Variation Test Setup



Photograph No. 36
Temperature/Power Variation Test Setup

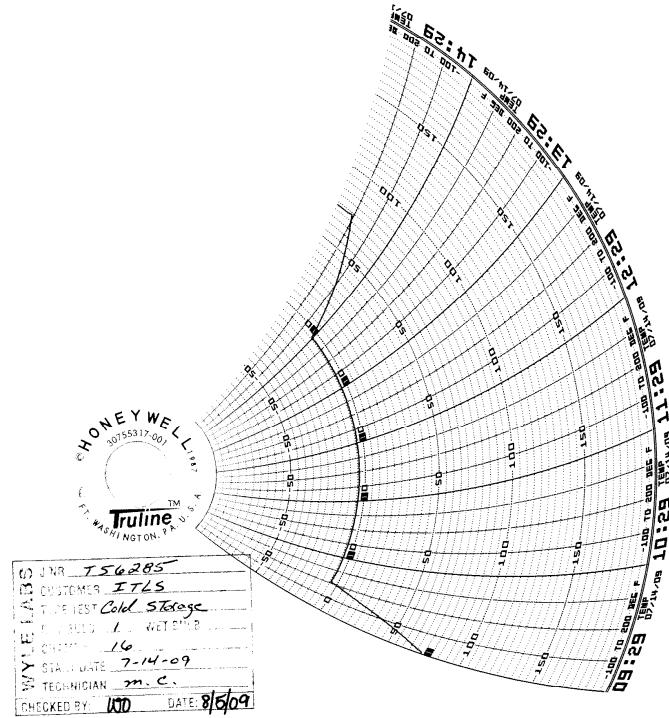


Photograph No. 37
Temperature/Power Variation Test Setup

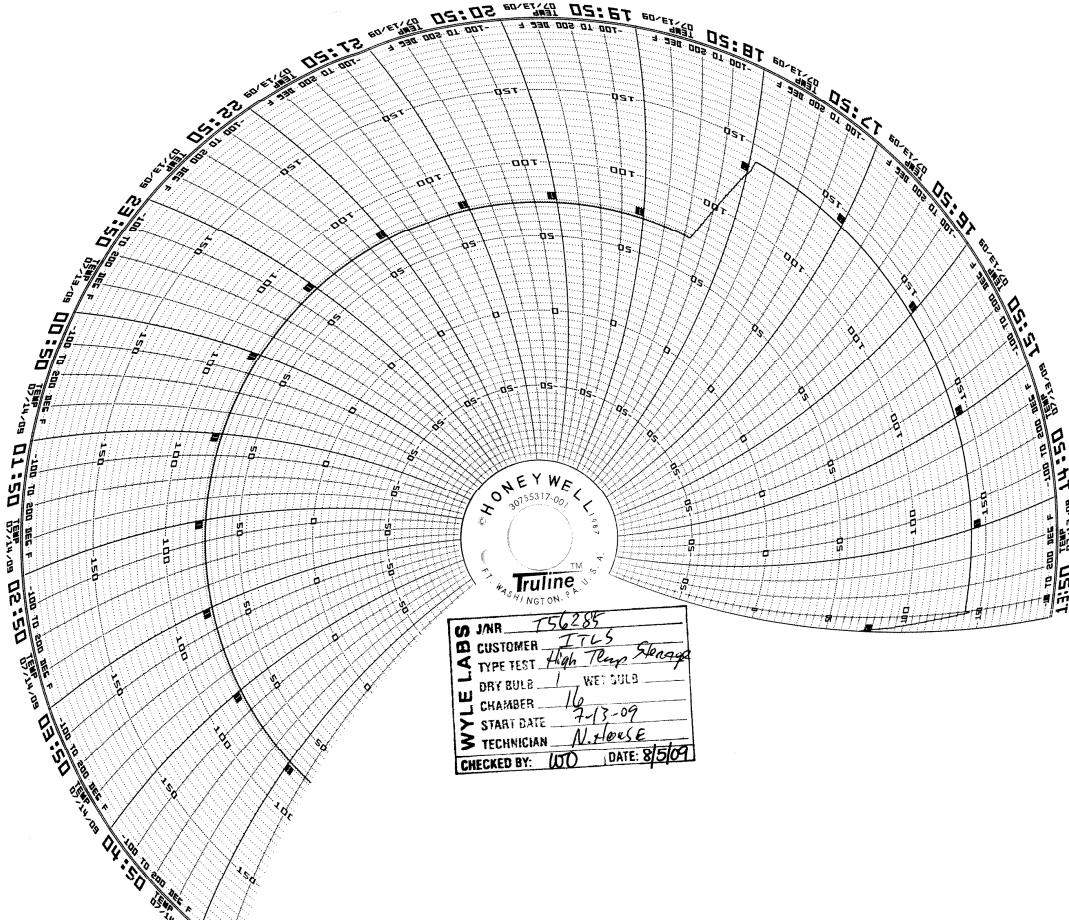
ATTACHMENT C

NON-OPERATING ENVIRONMENTAL TEST DATA

LOW TEMPERATURE TEST DATA



HIGH TEMPERATURE TEST DATA



VIBRATION TEST DATA

VIBRATION TEST DATA SHEET

WH-1028A

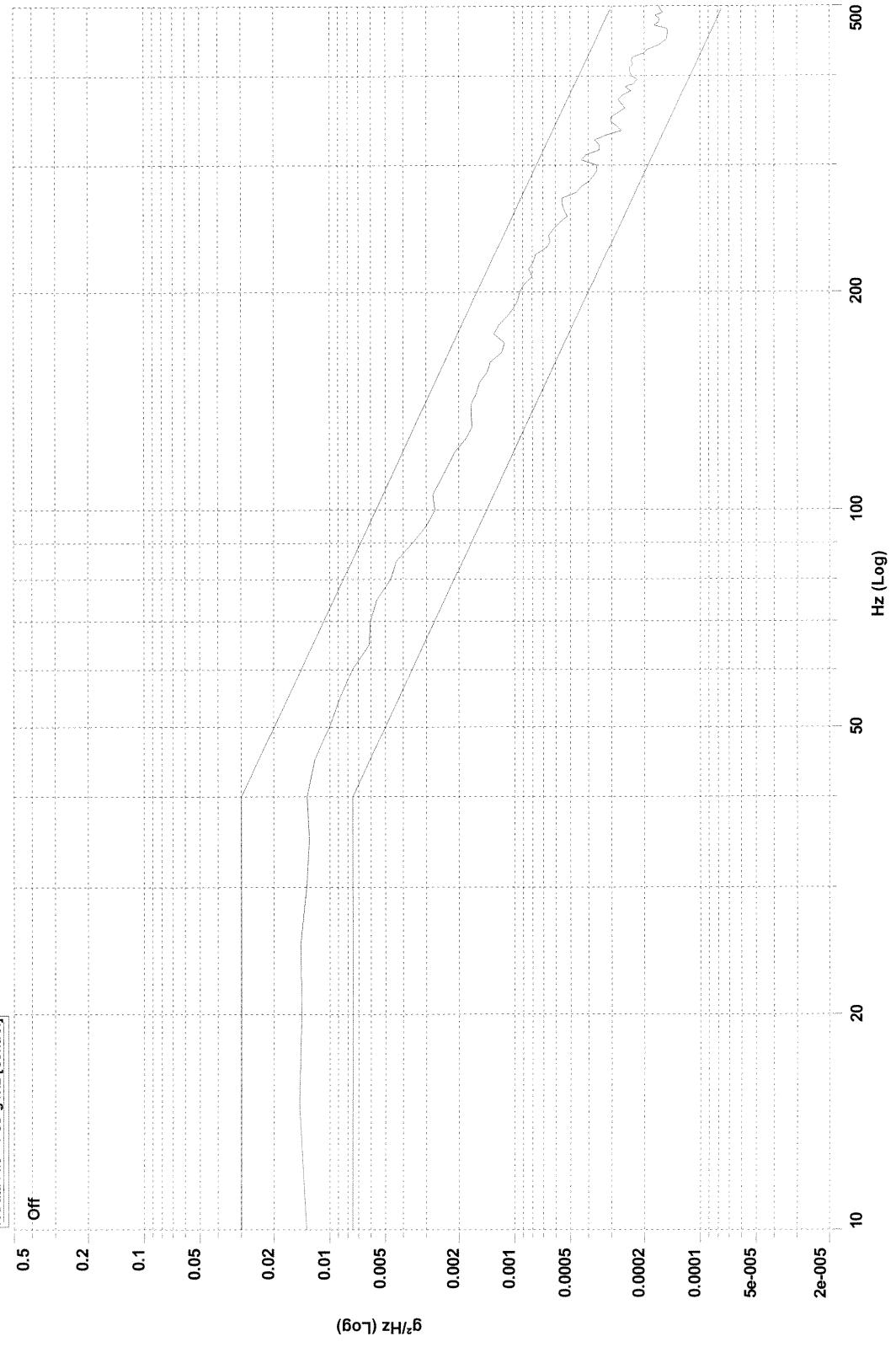
Signed Carol Kelly 7/15/09 Approved Wendy Juers 7/15/09

Level Time: 0000:30:01

CTRL: 1.0712 g
Test Level: 0.0000 dB

RUN#1 TRANSPORTATION VIB VOTING MACHINE S/N UN1000001 A1 CONTROL AMB TEMP

A Data File > PSD g²/Hz [Control]



Date: 07/14/09

ILTS T56285

FRONT TO BACK AXIS

wyle
laboratories

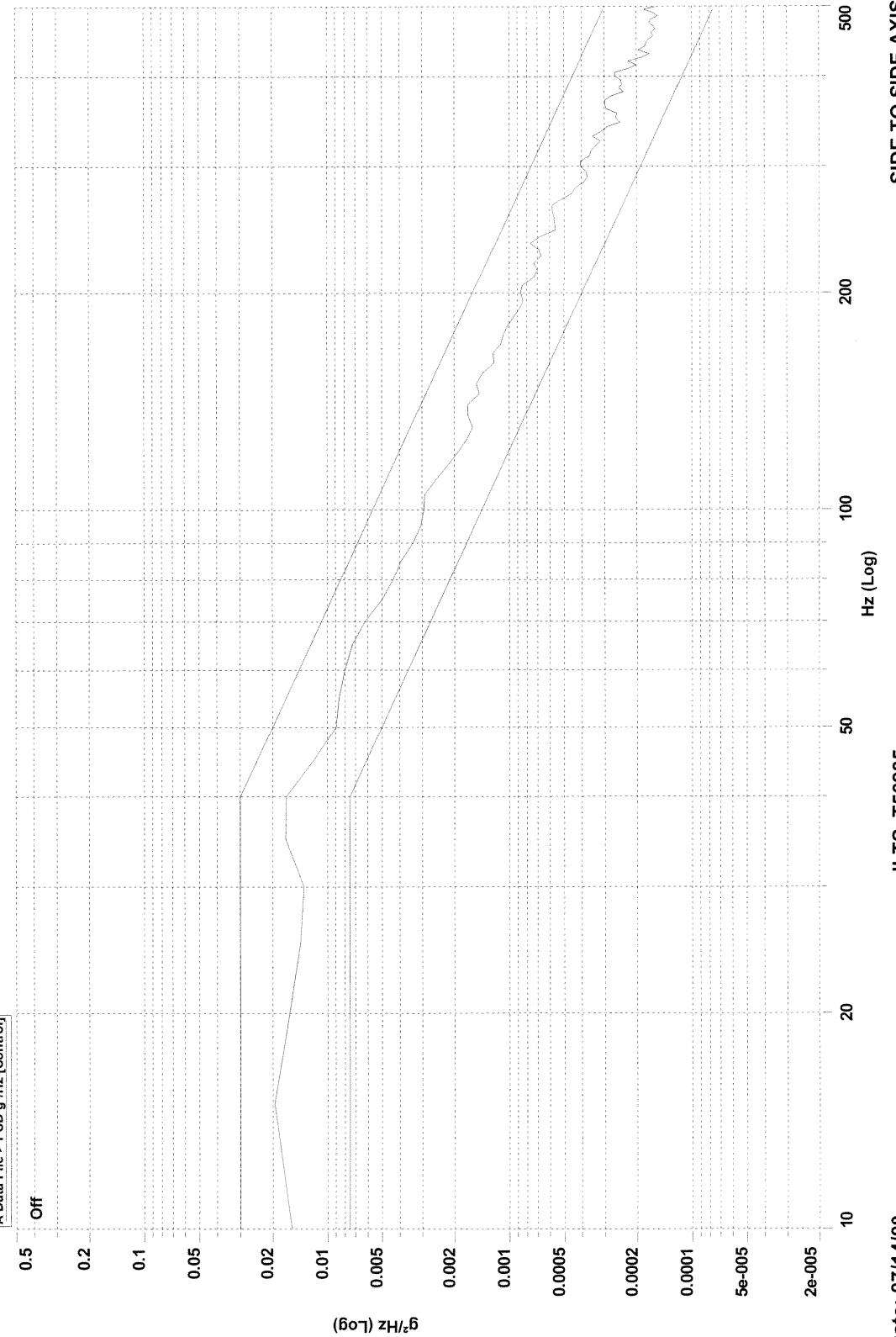
Level Time: 0000:30:01

CTRL: 1.1009 g
Test Level: 0.00000 dB

RUN#2 TRANSPORTATION VIB VOTING MACHINE S/N UN1000001 A1 CONTROL AMB TEMP

wyle
laboratories

A Data File > PSD g²/Hz [Control]

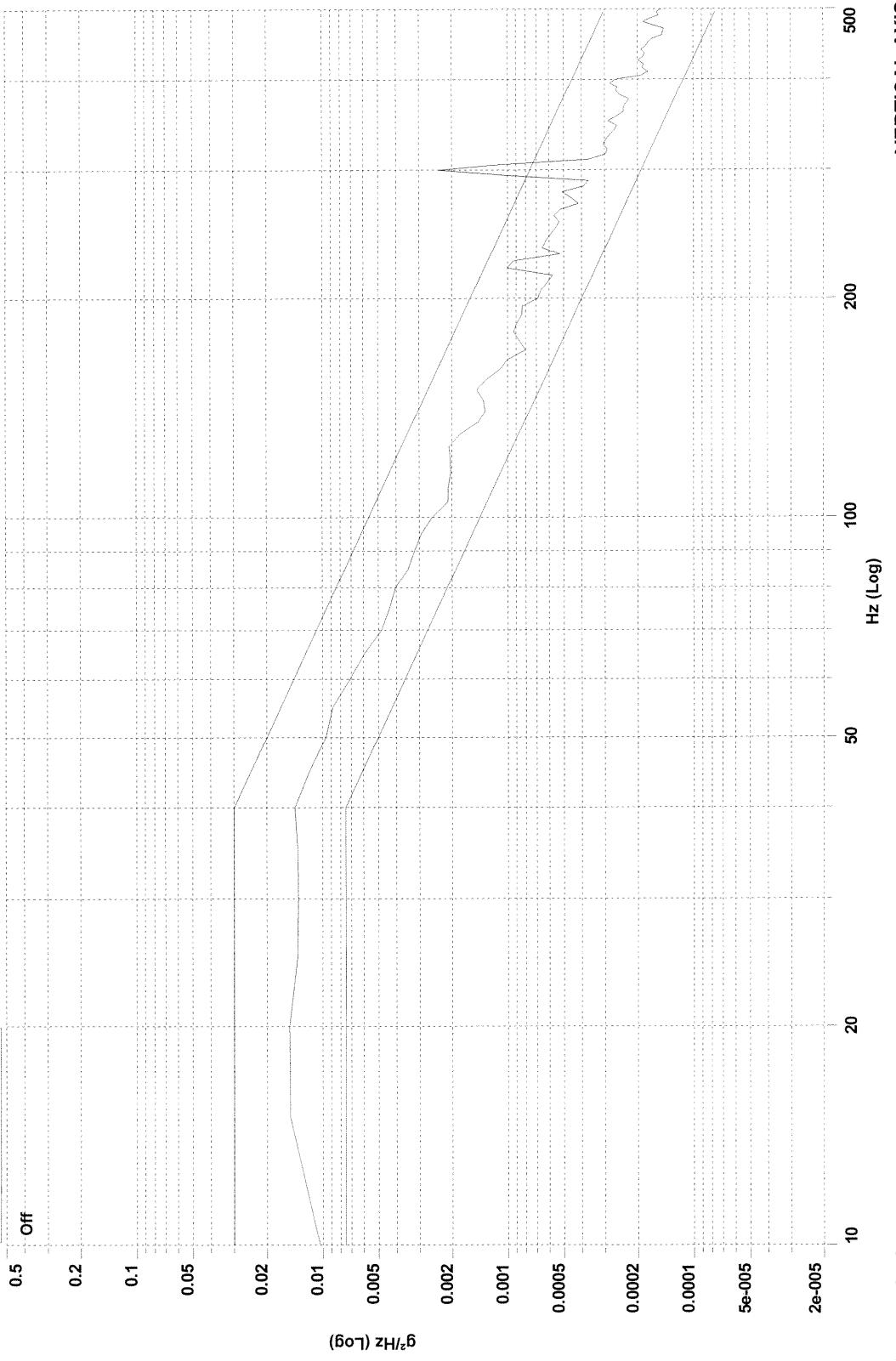


Level Time: 0000:30:01

CTRL: 1.0363 g
Test Level: 0.0000 dB

RUN#3 TRANSPORTATION VIB VOTING MACHINE S/N UN1000001 CONTROL AVG AMB TEMP

A Data File > PSD g²/Hz [Control]



Date: 07/14/09

ILTS T56285

VERTICAL AXIS

wyle
laboratories

BENCH HANDLING TEST DATA

DATA SHEET

wyle
laboratories

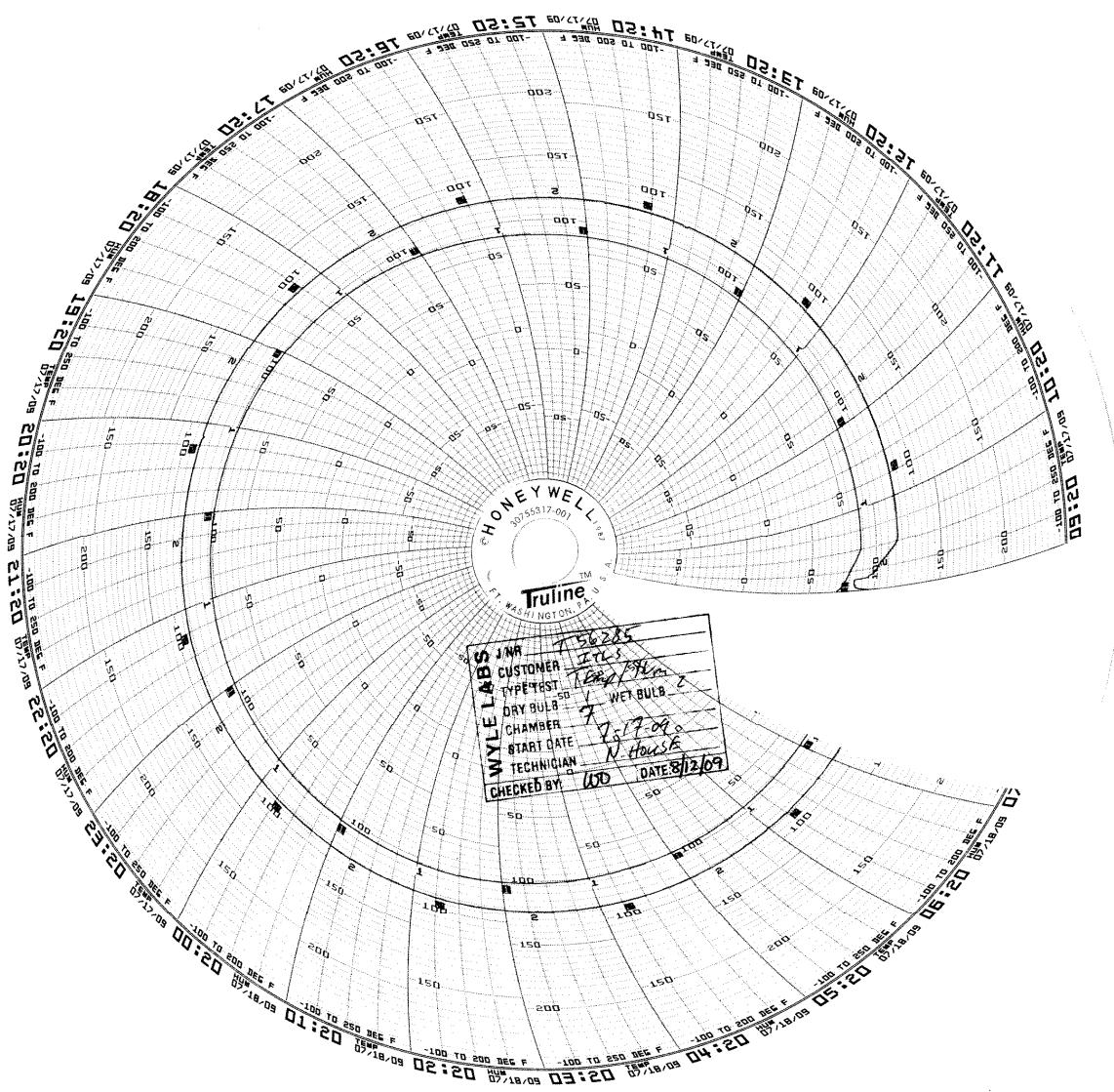
Customer Unisyn/ILTS
Specimen OpenElect Voting System (OVS)
Part No. EUT4 Amb. Temp. ~75°F
Spec. EAC 2005 VVSG Photo No
Para. 4.6.2 Test Med. Air
S/N — Specimen Temp. Ambient
GSI No
Job No. T56285
Report No. T56285-01
Start Date 7-13-09

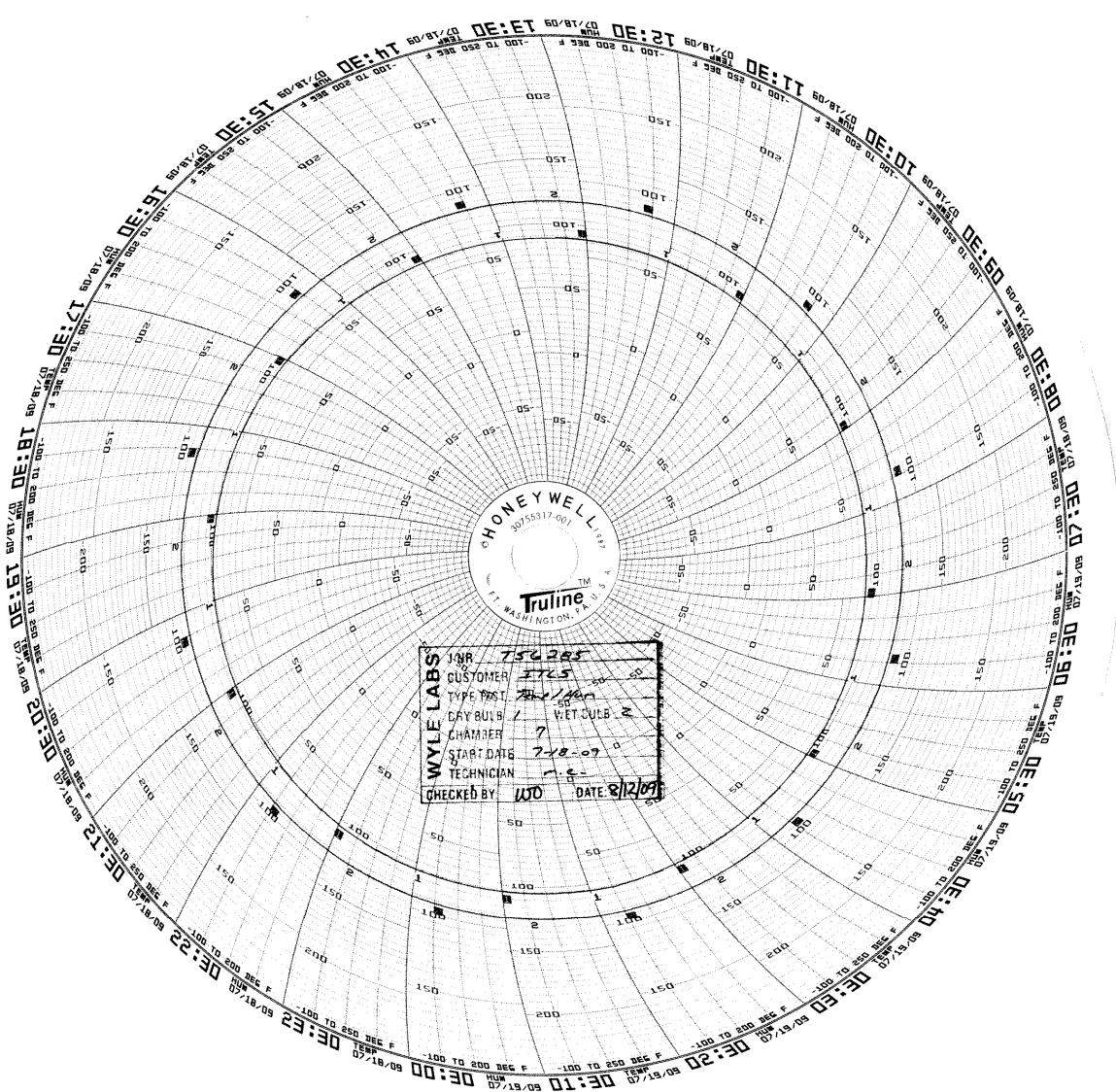
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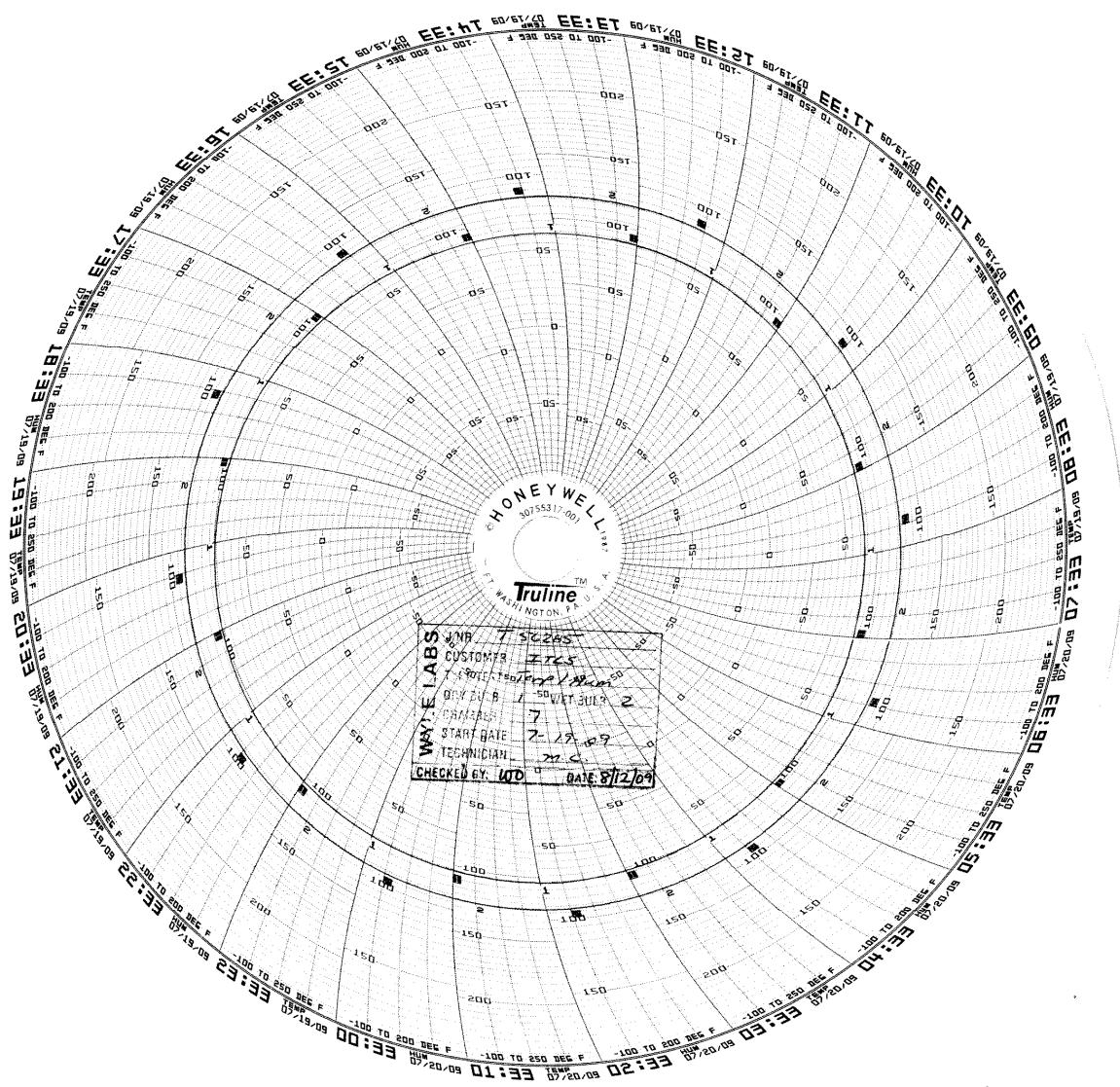
Tested By Wendy McElroy Date: 7/13/09
Witness _____ Date: _____
Sheet No. 1 of 1
Approved Wendy McElroy Date 7/13/09

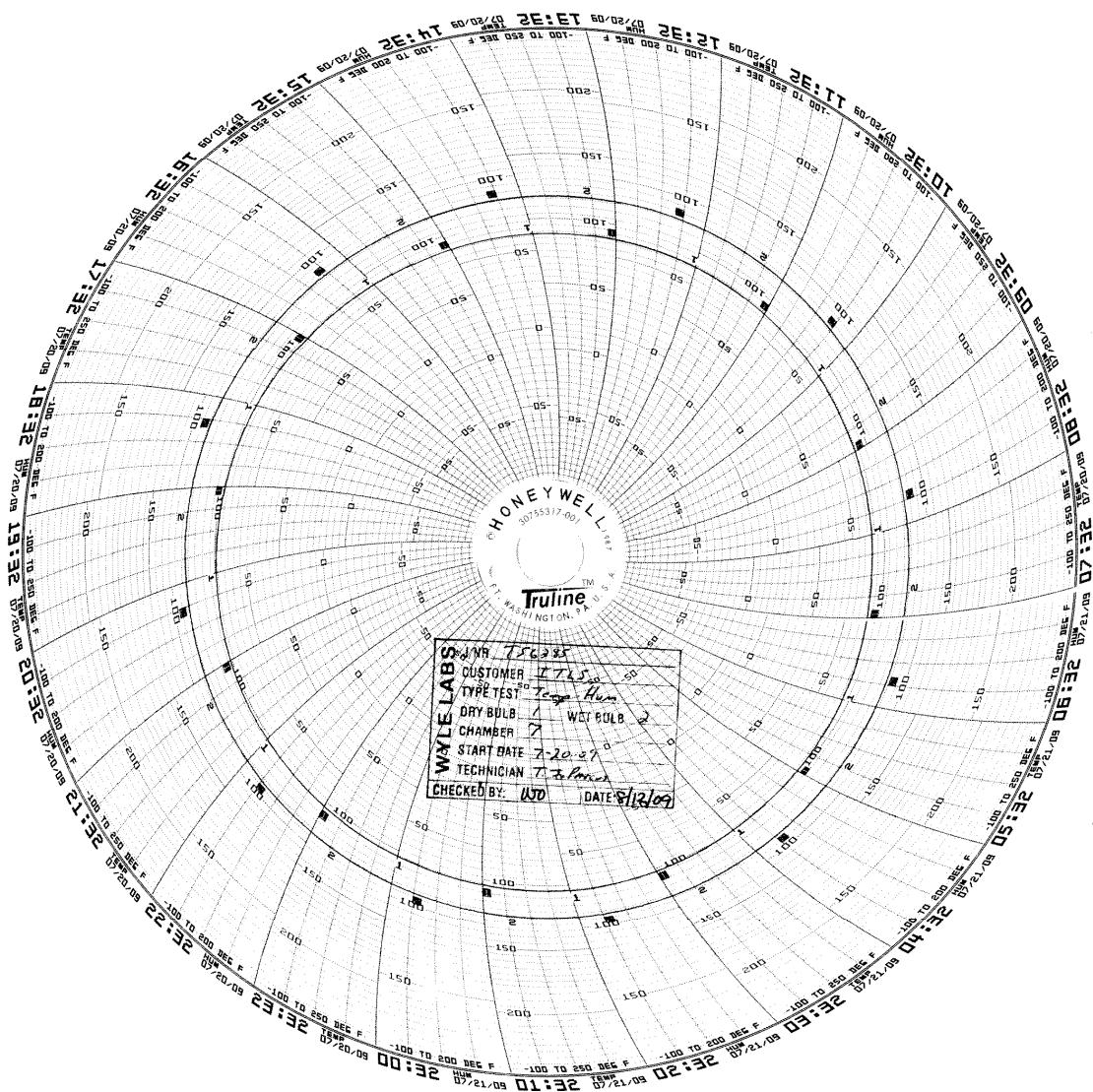
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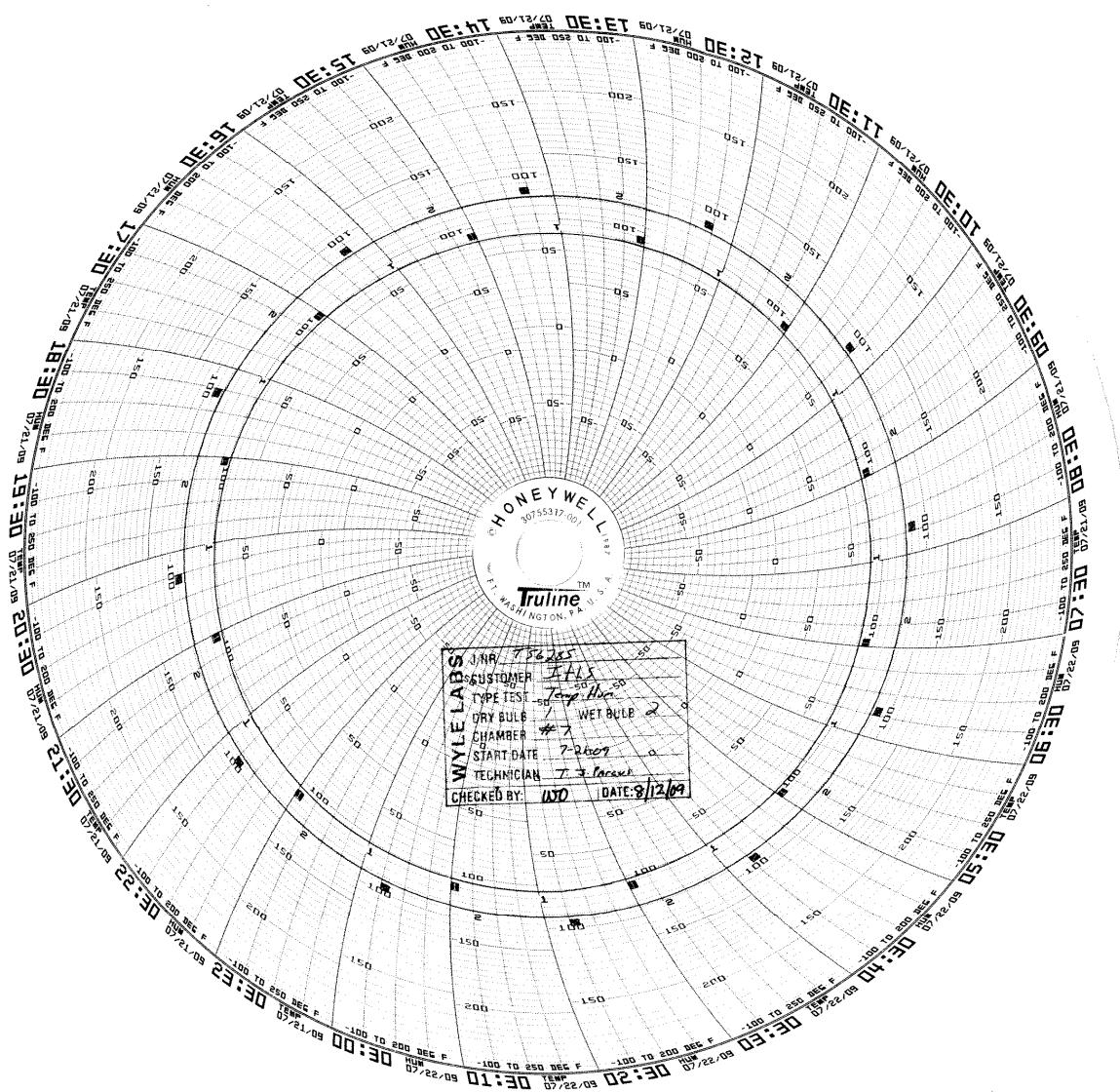
HUMIDITY TEST DATA

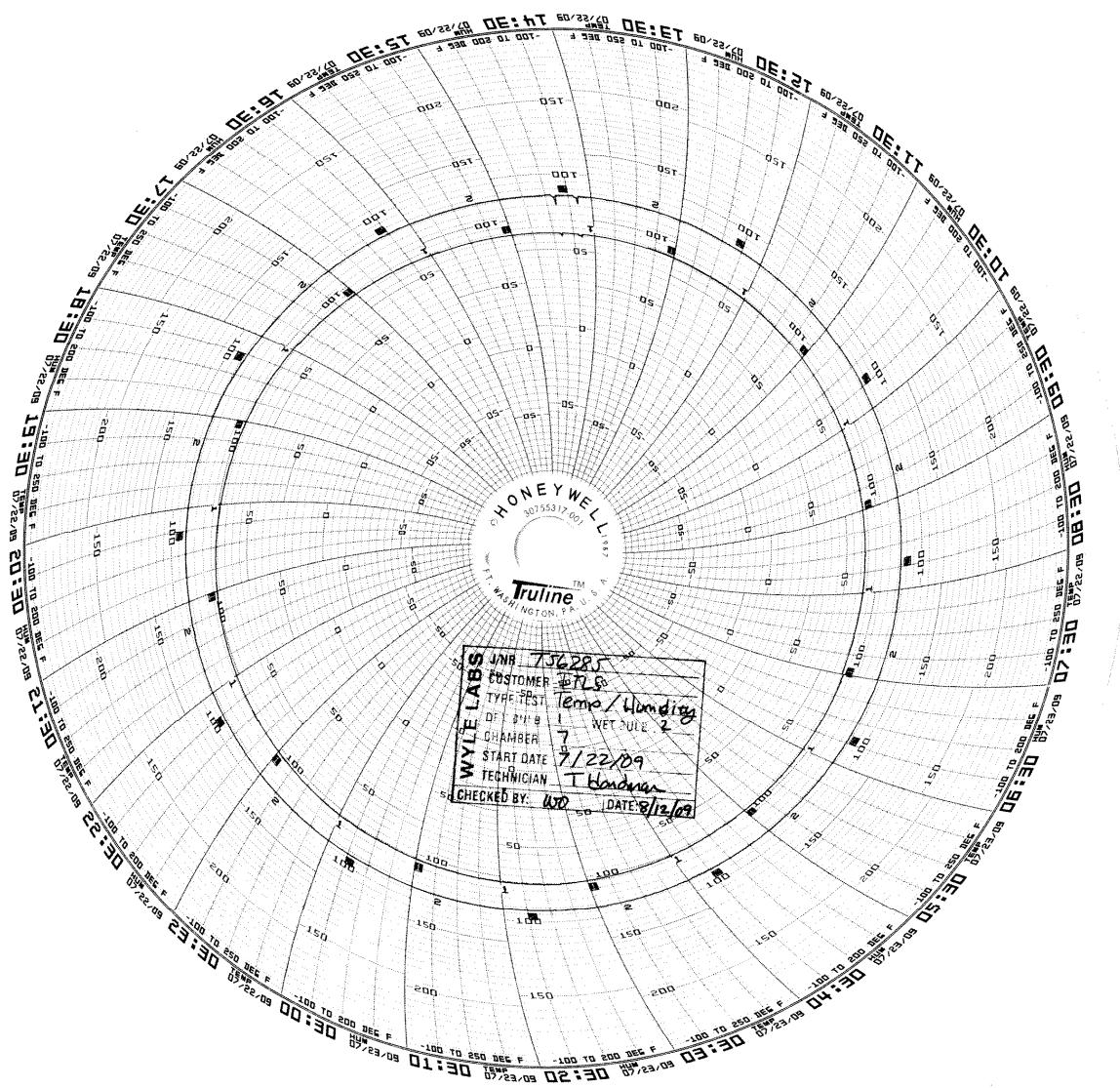


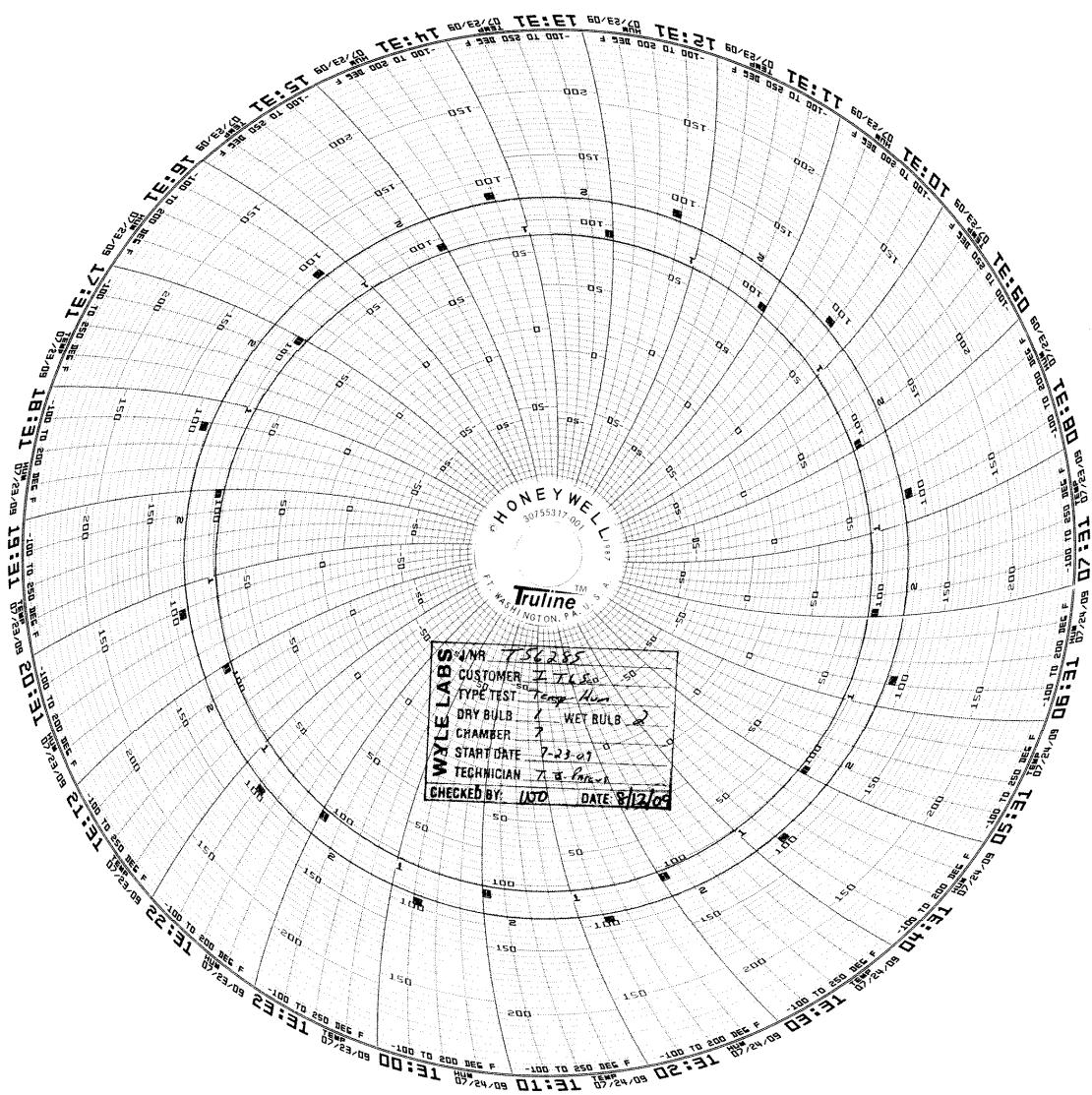


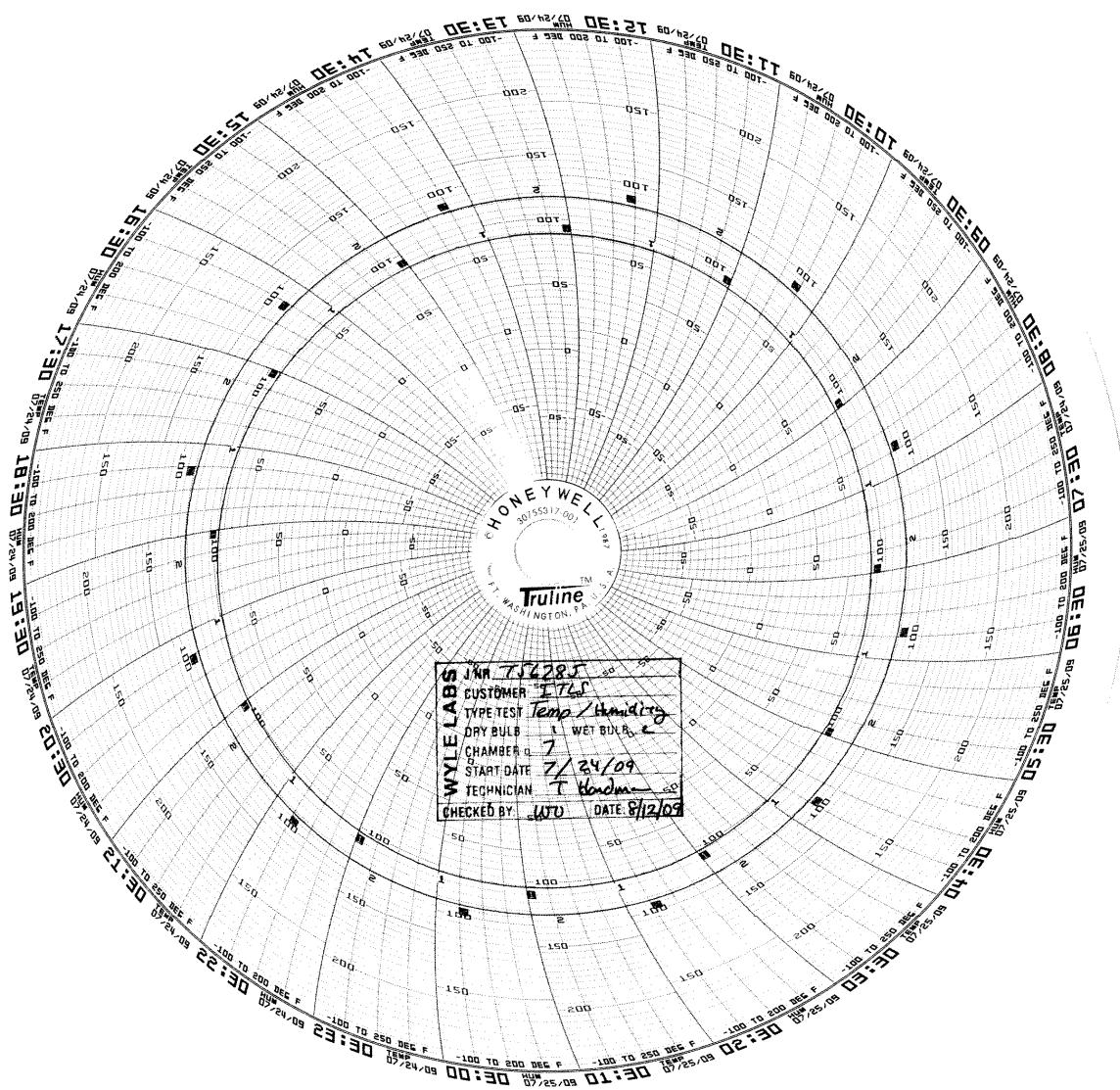


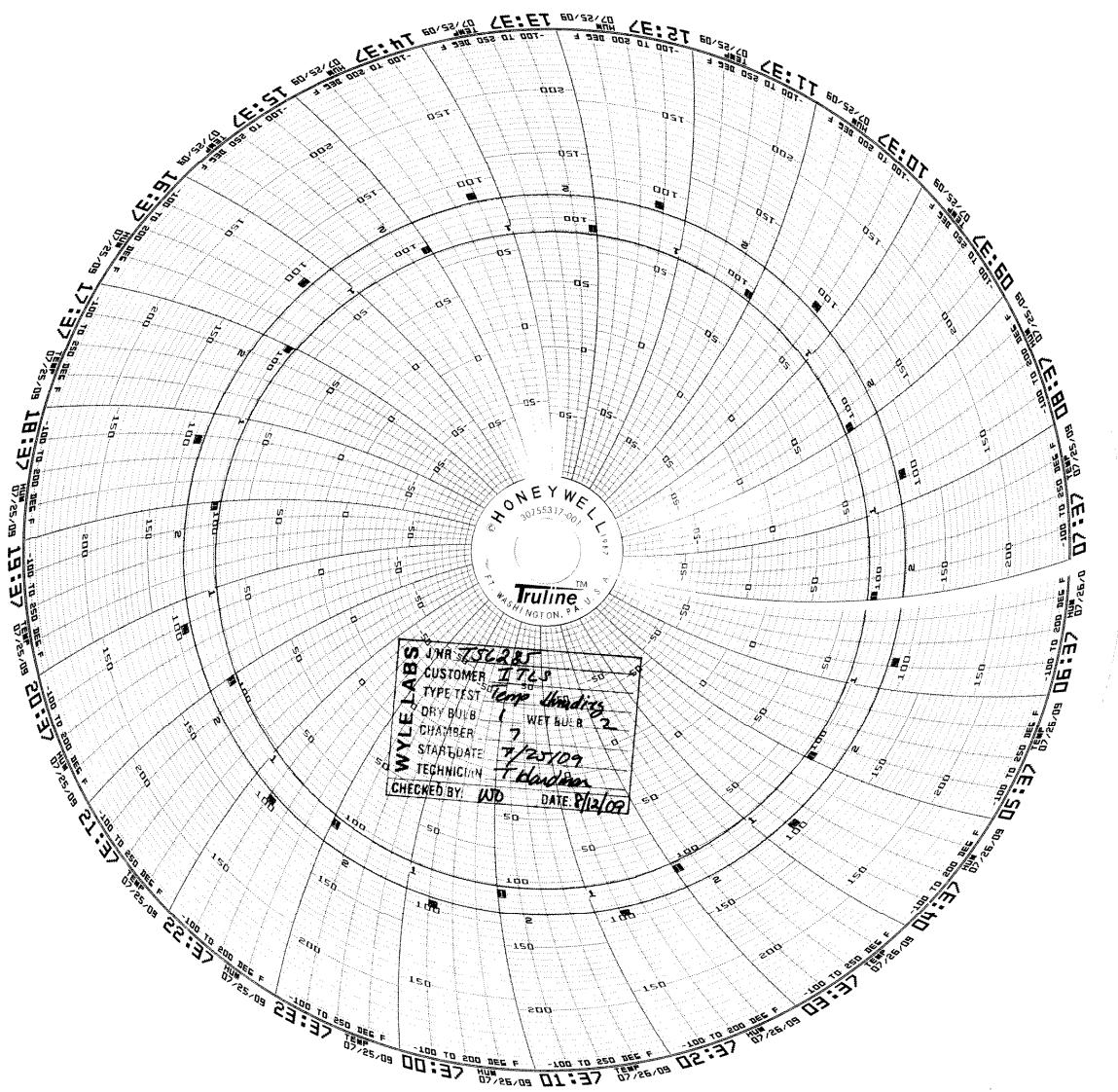


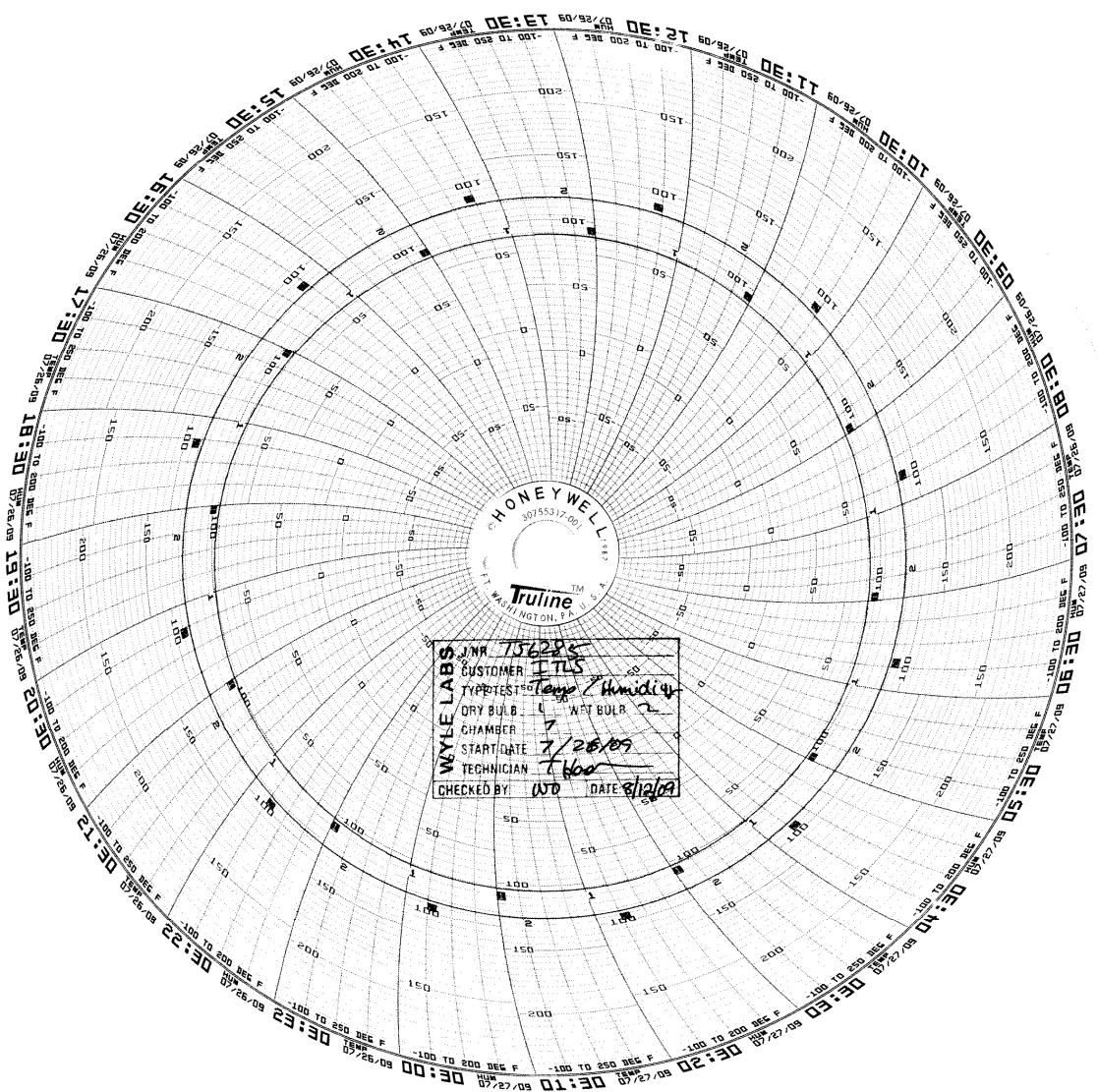


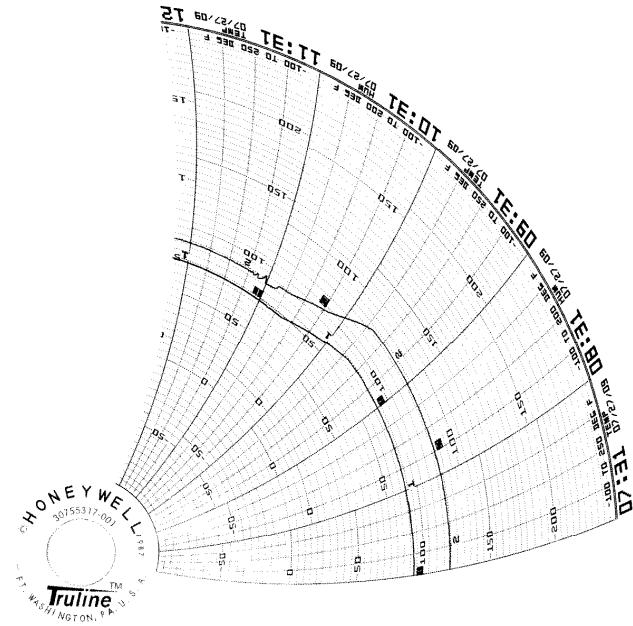






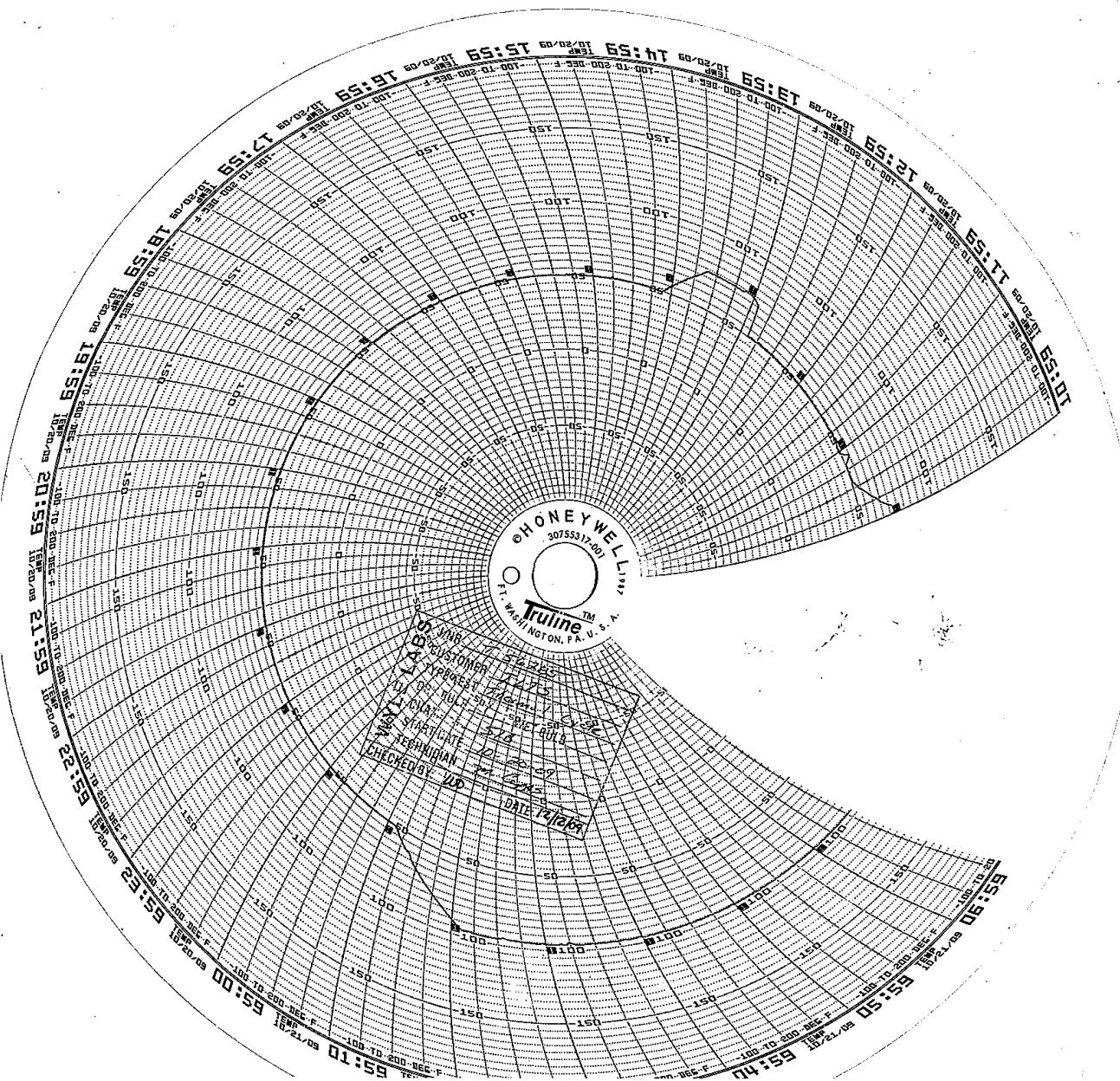


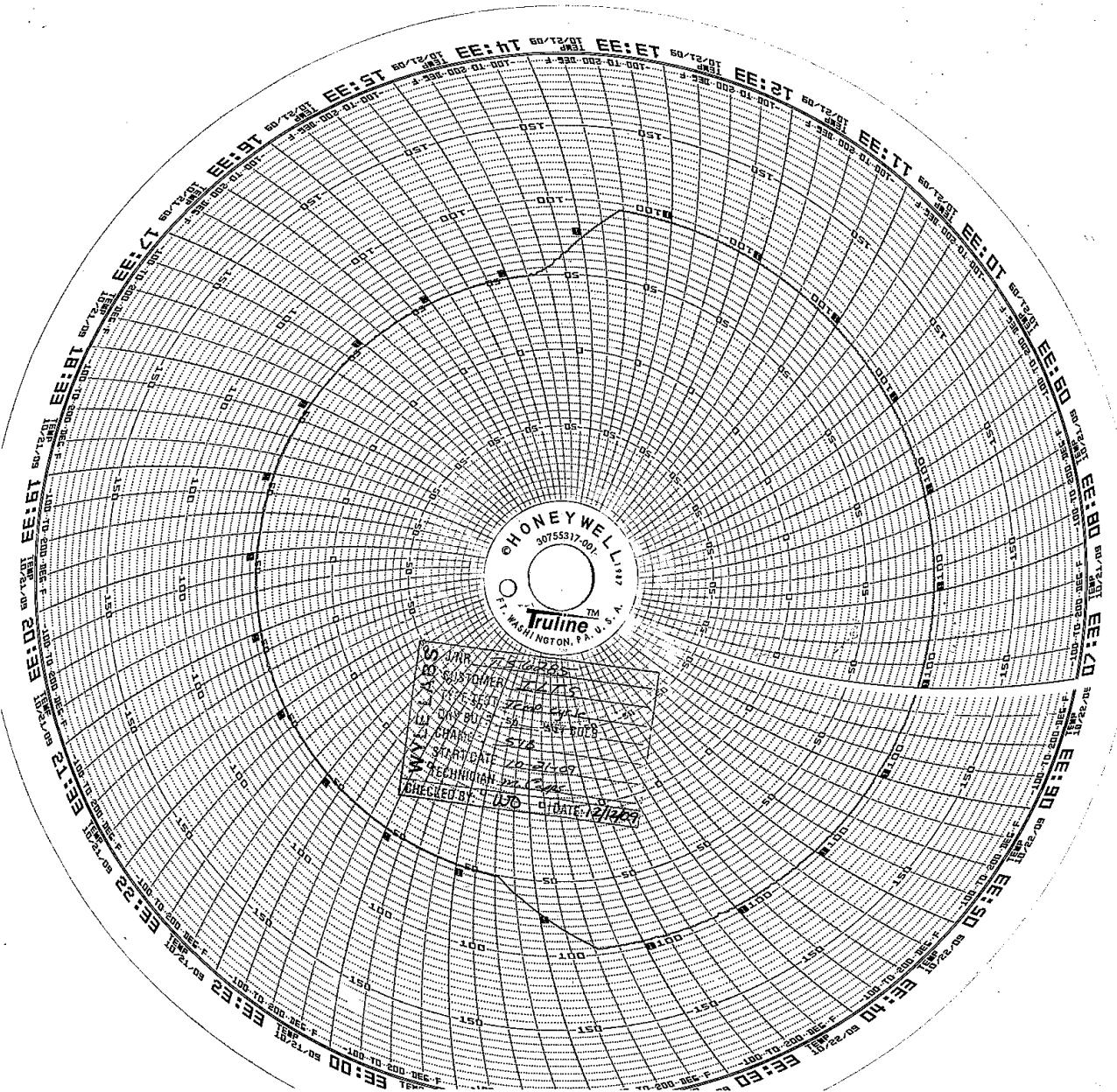


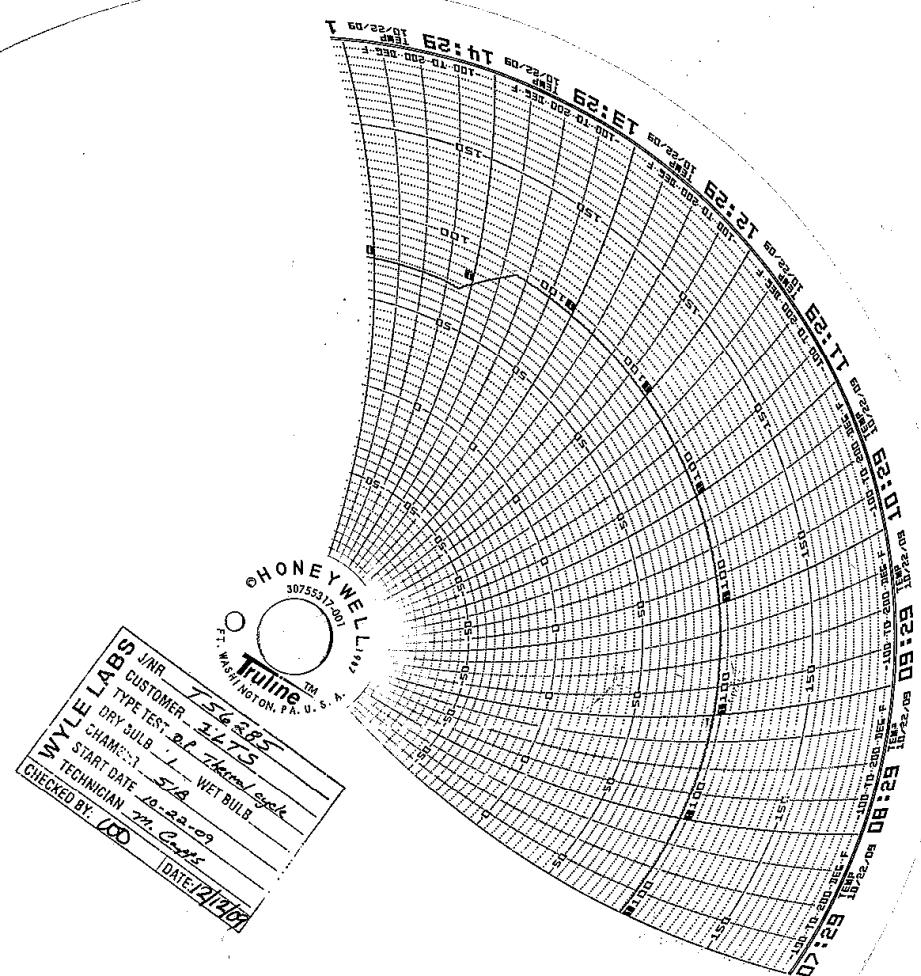


WYLE LABS	
JNR	T 56285
CUSTOMER	ITLS
TYPE TEST	Trage/Hum
CRY CHAM	7
CHAMBER	7
START DATE	7/27/09
TECHNICIAN	N. House
CHECKED BY:	DATE:

TEMPERATURE/POWER VARIATION TEST DATA







ATTACHMENT D

ELECTRICAL TEST DATA

ELECTRICAL POWER DISTURBANCE TEST DATA

California Instruments Corp.
Data entry mode: Absolute

No.	Type	Time (s)	Volt
1	V Step	60.000	120.0
2	V Step	0.020	84.0
3	V Step	60.000	120.0
4	V Step	0.100	48.0
5	V Step	60.000	120.0
6	V Step	1.000	48.0
7	V Step	60.000	120.0
8	V Step	5.000	6.0
9	V Step	60.000	120.0
10	V Step	1.000	102.0
11	V Step	60.000	120.0
12	V Step	1.000	138.0
13	V Step	60.000	120.0
14	V Step	14400.000	129.0
15	V Step	60.000	120.0
16	V Step	14400.000	105.0
17	V Step	60.000	120.0
18	Empty		

Transient List: <NEW>
Printed on: Wednesday, July 22, 2009 4:40:19 PM

Page #1

California Instruments Corp.
Data entry mode: Absolute

No.	Type	Time (s)	Volt
1	V Step	60.000	120.0
2	V Step	0.020	84.0
3	V Step	60.000	120.0
4	V Step	0.100	48.0
5	V Step	60.000	120.0
6	V Step	1.000	48.0
7	V Step	60.000	120.0
8	V Step	5.000	6.0
9	V Step	60.000	120.0
10	V Step	1.000	102.0
11	V Step	60.000	120.0
12	V Step	1.000	138.0
13	V Step	60.000	120.0
14	V Step	14400.000	129.0
15	V Step	60.000	120.0
16	V Step	14400.000	105.0
17	V Step	60.000	120.0
18	Empty		

Transient List: <NEW>
Printed on: Tuesday, July 21, 2009 4:30:50 PM

Page #1

**ELECTROMAGNETIC RADIATION TEST DATA
AND RADIATED EMISSIONS TEST DATA**



Wyle Laboratories

Customer: UNISYN
 Specification: FCC Class B RADIATED

Work Order #:	T56285	Date:	Wed Jul-01-2009
Test Type:	Radiated Scan	Time:	1:41:58 PM
Equipment:	Voting Device	Sequence:	1
Manufacturer:	UNISYN	Tested By:	J. Smith <i>J.Smith 7-1-09</i>
Model:	Open Elect Voting Optical		
S/N:	UNI000004		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model#	S/N
*Voting Device	UNISYN	Open Elect Voting Optical	UNI000004
Interface	UNISYN	Open Elect Voting Interface	UNI150006
UPS	Entrust	ETR1500	0900268
UPS	Entrust	ETR1500	0900407

Support Devices:

Function	Manufacturer	Model#	S/N
None			

Test Conditions / Notes:

Vertical Ambient

Transducer Legend:

T1=Cable Wyle# 110111 T2=Wyle #114415 3M Vert

Measurement Data:				Readings listed by frequency.								Test Distance: 3 meters		
#	Freq MHz	Rdng dB μ V		T1	T2			Dist	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
1	36.854	19.6	-0.5	+15.5				+0.0	34.6	40.0		Verti	Peak	-5.4
2	39.981	24.2	-0.5	+14.2				+0.0	37.9	40.0		Verti	Peak	-2.1
3	40.580	19.6	-0.5	+13.9				+0.0	33.0	40.0		Verti	Peak	-7.0
4	45.970	23.1	-0.6	+12.5				+0.0	35.0	40.0		Verti	Peak	-5.0
5	47.500	21.8	-0.6	+12.2				+0.0	33.4	40.0		Verti	Peak	-6.6
6	48.032	25.3	-0.6	+12.2				+0.0	36.9	40.0		Verti	Peak	-3.1
7	49.962	24.9	-0.6	+12.0				+0.0	36.3	40.0		Verti	Peak	-3.7
8	54.819	26.6	-0.6	+11.3				+0.0	37.3	40.0		Verti	Peak	-2.7
9	55.418	25.8	-0.6	+11.2				+0.0	36.4	40.0		Verti	Peak	-3.6
10	64.002	24.6	-0.7	+10.4				+0.0	34.3	40.0		Verti	Peak	-5.7
11	68.061	23.6	-0.7	+8.3				+0.0	31.2	40.0		Verti	Peak	-8.8
12	68.194	23.4	-0.7	+8.2				+0.0	30.9	40.0		Verti	Peak	-9.1
13	68.660	23.5	-0.7	+8.1				+0.0	30.9	40.0		Verti	Peak	-9.1
14	69.658	24.9	-0.7	+7.9				+0.0	32.1	40.0		Verti	Peak	-7.9
15	70.722	24.5	-0.7	+7.7				+0.0	31.5	40.0		Verti	Peak	-8.5
16	71.122	25.1	-0.7	+7.6				+0.0	32.0	40.0		Verti	Peak	-8.0
17	71.854	25.7	-0.7	+7.4				+0.0	32.4	40.0		Verti	Peak	-7.6
18	75.979	23.9	-0.8	+6.7				+0.0	29.8	40.0		Verti	Peak	-10.2
19	80.038	19.8	-0.6	+6.4				+0.0	25.6	40.0		Verti	Peak	-14.4
20	86.027	19.5	-0.8	+7.4				+0.0	26.1	40.0		Verti	Peak	-13.9
21	88.089	59.2	-0.8	+7.9				+0.0	66.3	43.5		Verti	Peak	+22.8
22	88.688	48.1	-0.8	+8.1				+0.0	55.4	43.5		Verti	Peak	+11.9
23	89.354	72.8	-0.8	+8.2				+0.0	80.2	43.5		Verti	Peak	+36.7
24	90.152	65.7	-0.8	+8.4				+0.0	73.3	43.5		Verti	Peak	+29.8
25	90.951	70.1	-0.8	+8.6				+0.0	77.9	43.5		Verti	Peak	+34.4
26	91.749	64.8	-0.8	+8.8				+0.0	72.8	43.5		Verti	Peak	+29.3
27	92.548	44.5	-0.7	+9.0				+0.0	52.8	43.5		Verti	Peak	+9.3
28	93.346	59.1	-0.7	+9.2				+0.0	67.6	43.5		Verti	Peak	+24.1
29	94.211	61.6	-0.7	+9.4				+0.0	70.3	43.5		Verti	Peak	+26.8
30	95.209	61.4	-0.7	+9.6				+0.0	70.3	43.5		Verti	Peak	+26.8
31	96.207	38.0	-0.7	+9.6				+0.0	46.9	43.5		Verti	Peak	+3.4
32	96.740	74.6	-0.7	+9.7				+0.0	83.6	43.5		Verti	Peak	+40.1
33	97.581	43.5	-0.8	+9.7				+0.0	52.4	43.5		Verti	Peak	+8.9
34	98.061	35.6	-0.8	+9.7				+0.0	44.5	43.5		Verti	Peak	+1.0
35	98.902	82.4	-0.8	+9.8				+0.0	91.4	43.5		Verti	Peak	+47.9

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Wyle Report No. T56285-01

Wyle Laboratories

#	Freq MHz	Rdng dBµV	T1	T2			Dist	Corr dBµV/m	Spec dBµV/m		Polar	Type	Margin
36	100.223	69.0	-0.8	+9.8			+0.0	78.0	43.5		Verti	Peak	+34.5
37	102.025	84.0	-0.8	+9.6			+0.0	92.8	43.5		Verti	Peak	+49.3
38	103.466	49.8	-0.8	+9.4			+0.0	58.4	43.5		Verti	Peak	+14.9
39	104.307	69.7	-0.8	+9.3			+0.0	78.2	43.5		Verti	Peak	+34.7
40	105.988	49.2	-0.9	+9.2			+0.0	57.5	43.5		Verti	Peak	+14.0
41	106.468	43.3	-0.9	+9.2			+0.0	51.6	43.5		Verti	Peak	+8.1
42	107.189	39.6	-0.9	+9.2			+0.0	47.9	43.5		Verti	Peak	+4.4
43	107.549	24.1	-0.9	+9.3			+0.0	32.5	43.5		Verti	Peak	-11.0
44	112.113	19.1	-0.9	+9.1			+0.0	27.3	43.5		Verti	Peak	-16.2
45	120.040	31.8	-0.9	+8.8			+0.0	39.7	43.5		Verti	Peak	-3.8
46	121.241	30.2	-0.9	+8.7			+0.0	38.0	43.5		Verti	Peak	-5.5
47	141.417	33.3	-1.0	+9.0			+0.0	41.3	43.5		Verti	Peak	-2.2
48	158.231	22.6	-1.0	+8.7			+0.0	30.3	43.5		Verti	Peak	-13.2
49	162.555	52.2	-1.0	+8.8			+0.0	60.0	43.5		Verti	Peak	+16.5
50	163.276	35.9	-1.0	+8.8			+0.0	43.7	43.5		Verti	Peak	+0.2
51	172.523	43.0	-1.1	+8.8			+0.0	50.7	43.5		Verti	Peak	+7.2
52	173.844	47.2	-1.1	+8.9			+0.0	55.0	43.5		Verti	Peak	+11.5
53	199.306	37.3	-1.2	+10.4			+0.0	46.5	43.5		Verti	Peak	+3.0
54	203.869	23.8	-1.2	+10.5			+0.0	33.1	43.5		Verti	Peak	-10.4
55	204.230	17.3	-1.2	+10.5			+0.0	26.6	43.5		Verti	Peak	-16.9
56	350.162	28.1	-1.5	+14.3			+0.0	40.9	46.0		Verti	Peak	-5.1
57	406.897	40.9	-1.6	+15.6			+0.0	54.9	46.0		Verti	Peak	+8.9
58	407.378	41.0	-1.6	+15.6			+0.0	55.0	46.0		Verti	Peak	+9.0
59	410.743	14.9	-1.6	+15.8			+0.0	29.1	46.0		Verti	Peak	-16.9
60	419.157	19.6	-1.7	+15.5			+0.0	33.4	46.0		Verti	Peak	-12.6
61	431.297	15.6	-1.7	+15.6			+0.0	29.5	46.0		Verti	Peak	-16.5
62	441.995	15.0	-1.8	+16.0			+0.0	29.2	46.0		Verti	Peak	-16.8
63	451.130	25.2	-1.8	+15.6			+0.0	39.0	46.0		Verti	Peak	-7.0
64	452.573	34.6	-1.8	+15.7			+0.0	48.5	46.0		Verti	Peak	+2.5
65	457.140	20.0	-1.8	+15.8			+0.0	34.0	46.0		Verti	Peak	-12.0
66	460.263	22.6	-1.8	+16.0			+0.0	36.8	46.0		Verti	Peak	-9.2
67	462.785	15.1	-1.8	+16.2			+0.0	29.5	46.0		Verti	Peak	-16.5
68	464.586	29.5	-1.8	+16.4			+0.0	44.1	46.0		Verti	Peak	-1.9
69	470.231	25.5	-1.8	+16.7			+0.0	40.4	46.0		Verti	Peak	-5.6
70	471.672	35.7	-1.8	+16.6			+0.0	50.5	46.0		Verti	Peak	+4.5
71	472.273	36.8	-1.8	+16.6			+0.0	51.6	46.0		Verti	Peak	+5.6
72	472.753	37.1	-1.8	+16.6			+0.0	51.9	46.0		Verti	Peak	+5.9
73	474.194	36.1	-1.8	+16.5			+0.0	50.8	46.0		Verti	Peak	+4.8
74	479.959	14.8	-1.8	+16.2			+0.0	29.2	46.0		Verti	Peak	-16.8
75	486.325	15.9	-1.8	+16.5			+0.0	30.6	46.0		Verti	Peak	-15.4
76	498.094	15.7	-1.9	+17.0			+0.0	30.8	46.0		Verti	Peak	-15.2
77	500.496	41.0	-1.9	+17.1			+0.0	56.2	46.0		Verti	Peak	+10.2
78	501.697	42.6	-1.9	+17.1			+0.0	57.8	46.0		Verti	Peak	+11.8
79	502.058	43.8	-1.9	+17.1			+0.0	59.0	46.0		Verti	Peak	+13.0
80	504.940	39.1	-1.9	+17.1			+0.0	54.3	46.0		Verti	Peak	+8.3
81	505.661	31.6	-1.9	+17.1			+0.0	46.8	46.0		Verti	Peak	+0.8
82	520.793	14.9	-1.9	+16.8			+0.0	29.8	46.0		Verti	Peak	-16.2
83	530.401	52.3	-1.9	+17.2			+0.0	67.6	46.0		Verti	Peak	+21.6
84	531.122	49.6	-1.9	+17.2			+0.0	64.9	46.0		Verti	Peak	+18.9
85	531.722	48.6	-1.9	+17.3			+0.0	64.0	46.0		Verti	Peak	+18.0
86	533.884	49.3	-1.9	+17.4			+0.0	64.8	46.0		Verti	Peak	+18.8
87	534.965	50.2	-1.9	+17.4			+0.0	65.7	46.0		Verti	Peak	+19.7
88	542.651	14.6	-2.0	+17.3			+0.0	29.9	46.0		Verti	Peak	-16.1
89	564.029	14.7	-2.1	+17.6			+0.0	30.2	46.0		Verti	Peak	-15.8
90	569.194	14.7	-2.1	+18.0			+0.0	30.6	46.0		Verti	Peak	-15.4
91	574.958	14.8	-2.1	+17.9			+0.0	30.6	46.0		Verti	Peak	-19.6
92	578.201	49.9	-2.1	+17.8			+0.0	65.6	46.0		Verti	Peak	+18.5
93	581.684	48.9	-2.1	+17.7			+0.0	64.5	46.0		Verti	Peak	+12.8
94	583.005	43.1	-2.1	+17.8			+0.0	58.8	46.0		Verti	Peak	+10.9
95	583.606	41.2	-2.1	+17.8			+0.0	56.9	46.0		Verti	Peak	-12.1
96	585.167	18.2	-2.1	+17.8			+0.0	33.9	46.0		Verti	Peak	-14.6
97	589.611	15.5	-2.0	+17.9			+0.0	31.4	46.0		Verti	Peak	-7.6
98	615.072	22.3	2.1	+18.2			+0.0	38.4	46.0		Verti	Peak	

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Wyle Report No. T56285-01

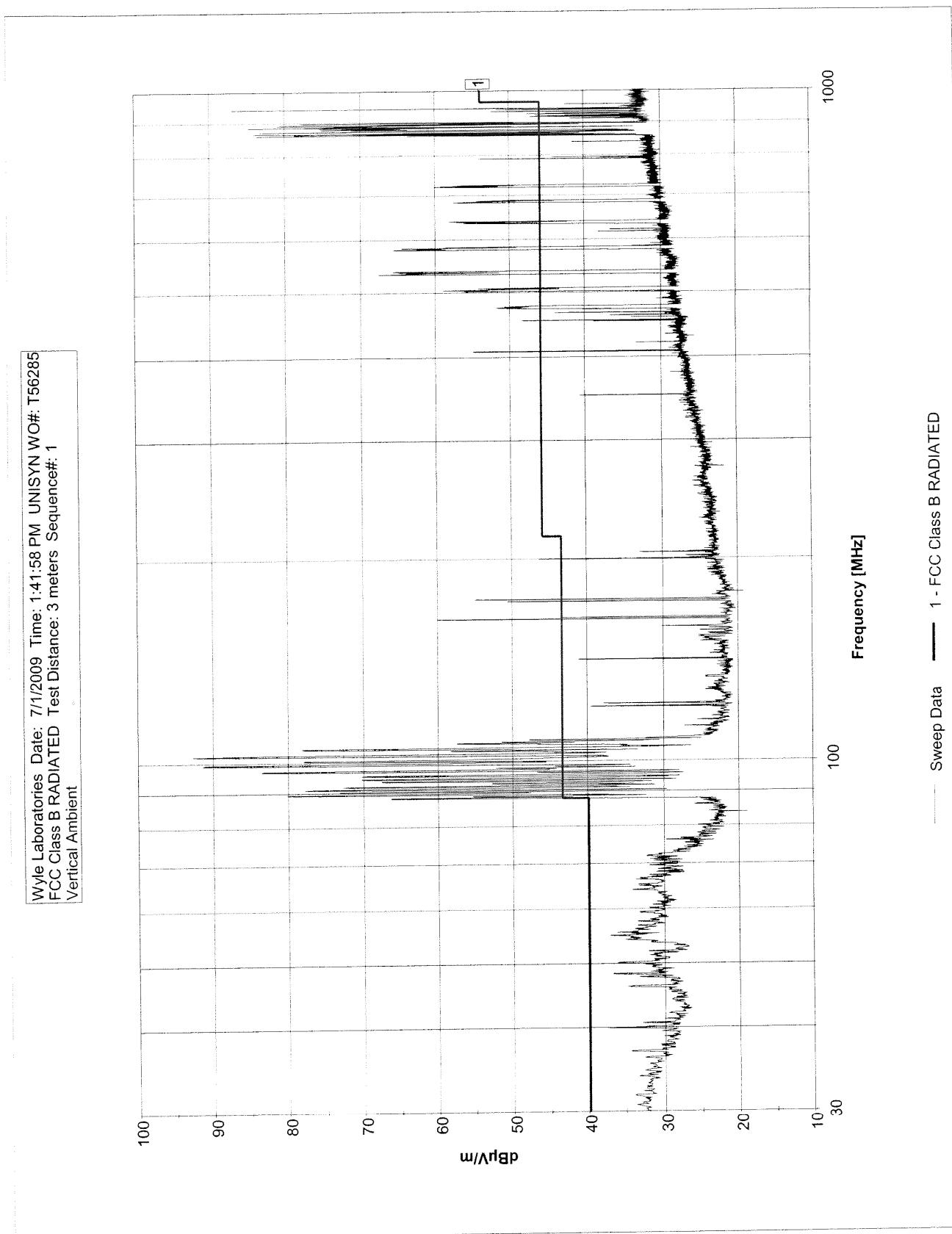
Wyle Laboratories

#	Freq MHz	Rdng dB μ V	T1	T2		Dist	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
99	619.636	20.8	-2.1	+18.1		+0.0	36.8	46.0		Verti	Peak	-9.2
100	633.327	39.7	-2.1	+18.6		+0.0	56.2	46.0		Verti	Peak	+10.2
101	635.729	40.7	-2.1	+18.6		+0.0	57.2	46.0		Verti	Peak	+11.2
102	637.410	41.8	-2.1	+18.5		+0.0	58.2	46.0		Verti	Peak	+12.2
103	680.046	41.0	-2.3	+18.9		+0.0	57.0	46.0		Verti	Peak	+11.0
104	680.646	40.4	-2.3	+18.9		+0.0	56.3	46.0		Verti	Peak	+10.3
105	681.247	39.6	-2.3	+19.0		+0.0	54.5	46.0		Verti	Peak	+8.5
106	683.168	37.8	-2.3	+19.0		+0.0	51.0	46.0		Verti	Peak	+5.0
107	684.970	34.2	-2.3	+19.1		+0.0	60.2	46.0		Verti	Peak	+14.2
108	717.517	43.1	-2.3	+19.4		+0.0	59.3	46.0		Verti	Peak	+13.3
109	718.958	42.1	-2.3	+19.5		+0.0	57.6	46.0		Verti	Peak	+11.6
110	719.799	40.4	-2.3	+19.5		+0.0	56.9	46.0		Verti	Peak	+10.9
111	721.000	39.7	-2.3	+19.5		+0.0	32.2	46.0		Verti	Peak	-13.8
112	768.560	14.5	-2.4	+20.1		+0.0	32.6	46.0		Verti	Peak	-13.4
113	774.324	14.8	-2.4	+20.2		+0.0	32.3	46.0		Verti	Peak	-13.7
114	776.006	14.5	-2.4	+20.2		+0.0	32.6	46.0		Verti	Peak	-13.4
115	778.408	14.7	-2.4	+20.3		+0.0	32.3	46.0		Verti	Peak	-13.7
116	786.935	14.5	-2.4	+20.2		+0.0	54.2	46.0		Verti	Peak	+8.2
117	788.977	36.5	-2.4	+20.1		+0.0	38.0	46.0		Verti	Peak	-8.0
118	792.580	20.2	-2.4	+20.2		+0.0	44.4	46.0		Verti	Peak	-1.6
119	793.420	26.6	-2.4	+20.2		+0.0	32.9	46.0		Verti	Peak	-13.1
120	806.871	14.9	-2.4	+20.4		+0.0	32.5	46.0		Verti	Peak	-13.5
121	807.832	14.5	-2.4	+20.4		+0.0	32.9	46.0		Verti	Peak	-13.1
122	816.359	14.8	-2.4	+20.5		+0.0	41.8	46.0		Verti	Peak	-4.2
123	835.695	23.8	-2.5	+20.5		+0.0	41.6	46.0		Verti	Peak	-4.4
124	835.936	23.6	-2.5	+20.5		+0.0	63.7	46.0		Verti	Peak	+17.7
125	853.951	45.6	-2.6	+20.7		+0.0	60.0	46.0		Verti	Peak	+14.0
126	856.112	41.9	-2.6	+20.7		+0.0	64.3	46.0		Verti	Peak	+18.3
127	856.833	46.2	-2.6	+20.7		+0.0	83.8	46.0		Verti	Peak	+37.8
128	857.193	65.7	-2.6	+20.7		+0.0	66.9	46.0		Verti	Peak	+20.9
129	857.914	48.7	-2.6	+20.8		+0.0	69.1	46.0		Verti	Peak	+23.1
130	858.274	50.9	-2.6	+20.8		+0.0	70.4	46.0		Verti	Peak	+24.4
131	859.355	52.2	-2.6	+20.8		+0.0	78.8	46.0		Verti	Peak	+32.8
132	859.836	60.6	-2.6	+20.8		+0.0	64.9	46.0		Verti	Peak	+18.9
133	860.196	46.7	-2.6	+20.8		+0.0	69.2	46.0		Verti	Peak	+23.2
134	860.676	51.0	-2.6	+20.8		+0.0	71.0	46.0		Verti	Peak	+25.0
135	861.277	52.8	-2.6	+20.8		+0.0	84.2	46.0		Verti	Peak	+38.2
136	862.117	66.0	-2.6	+20.8		+0.0	54.6	46.0		Verti	Peak	+8.6
137	863.318	36.3	-2.6	+20.9		+0.0	64.3	46.0		Verti	Peak	+18.3
138	863.919	46.0	-2.6	+20.9		+0.0	48.8	46.0		Verti	Peak	+2.8
139	865.120	30.5	-2.6	+20.9		+0.0	39.9	46.0		Verti	Peak	-6.1
140	866.561	21.6	-2.6	+20.9		+0.0	39.6	46.0		Verti	Peak	-6.4
141	867.402	21.3	-2.6	+20.9		+0.0	83.4	46.0		Verti	Peak	+37.4
142	868.122	65.2	-2.6	+20.8		+0.0	63.1	46.0		Verti	Peak	+17.1
143	868.603	44.9	-2.6	+20.8		+0.0	38.6	46.0		Verti	Peak	-7.4
144	869.564	20.4	-2.6	+20.8		+0.0	71.2	46.0		Verti	Peak	+25.2
145	872.086	53.0	-2.6	+20.8		+0.0	70.6	46.0		Verti	Peak	+24.6
146	872.806	52.3	-2.6	+20.9		+0.0	69.2	46.0		Verti	Peak	+23.2
147	873.527	50.9	-2.6	+20.9		+0.0	75.2	46.0		Verti	Peak	+29.2
148	874.608	56.9	-2.6	+20.9		+0.0	72.5	46.0		Verti	Peak	+26.5
149	876.770	54.2	-2.6	+20.9		+0.0	75.5	46.0		Verti	Peak	+29.5
150	878.451	57.1	-2.6	+21.0		+0.0	69.7	46.0		Verti	Peak	+23.7
151	879.892	51.3	-2.6	+21.0		+0.0	68.3	46.0		Verti	Peak	+22.3
152	880.373	49.9	-2.6	+21.0		+0.0	84.9	46.0		Verti	Peak	+38.9
153	880.733	66.5	-2.6	+21.0		+0.0	77.4	46.0		Verti	Peak	+31.4
154	881.934	59.0	-2.6	+21.0		+0.0	75.0	46.0		Verti	Peak	+29.0
155	883.255	56.5	-2.6	+21.1		+0.0	81.1	46.0		Verti	Peak	+27.5
156	884.936	55.0	-2.6	+21.1		+0.0	66.9	46.0		Verti	Peak	+35.1
157	885.897	62.6	-2.6	+21.1		+0.0	67.7	46.0		Verti	Peak	+20.9
158	886.498	48.4	-2.6	+21.1		+0.0	80.7	46.0		Verti	Peak	+21.7
159	887.098	49.2	-2.6	+21.1		+0.0	59.1	46.0		Verti	Peak	+34.7
160	888.539	62.1	-2.6	+21.2		+0.0						+13.1
161	889.140	40.5	-2.6	+21.2		+0.0						

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Wyle Laboratories

#	Freq MHz	Rdng dB μ V	T1	T2			Dist dB μ V/m	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
162	891.422	40.9	-2.6	+21.2			+0.0	59.5	46.0		Verti	Peak	+13.5
163	892.383	51.1	-2.6	+21.2			+0.0	69.7	46.0		Verti	Peak	+23.7
164	892.863	59.4	-2.6	+21.2			+0.0	78.0	46.0		Verti	Peak	+32.0
165	893.103	39.6	-2.6	+21.2			+0.0	58.2	46.0		Verti	Peak	+12.2
166	893.464	48.7	-2.6	+21.2			+0.0	67.3	46.0		Verti	Peak	+21.3
167	905.594	17.3	-2.6	+21.3			+0.0	36.0	46.0		Verti	Peak	-10.0
168	907.515	23.2	-2.6	+21.4			+0.0	42.0	46.0		Verti	Peak	-4.0
169	907.996	20.3	-2.6	+21.4			+0.0	39.1	46.0		Verti	Peak	-6.9
170	908.476	21.6	-2.6	+21.4			+0.0	40.4	46.0		Verti	Peak	-5.6
171	912.079	21.6	-2.5	+21.5			+0.0	40.5	46.0		Verti	Peak	-5.5
172	912.920	28.4	-2.6	+21.5			+0.0	47.3	46.0		Verti	Peak	+1.3
173	915.322	27.5	-2.6	+21.6			+0.0	46.5	46.0		Verti	Peak	+0.5
174	916.643	22.7	-2.6	+21.7			+0.0	41.8	46.0		Verti	Peak	-4.2
175	917.123	23.5	-2.6	+21.7			+0.0	42.6	46.0		Verti	Peak	-3.4
176	918.444	17.4	-2.6	+21.7			+0.0	36.5	46.0		Verti	Peak	-9.5
177	921.207	28.2	-2.6	+21.8			+0.0	47.4	46.0		Verti	Peak	+1.4
178	921.687	28.5	-2.6	+21.8			+0.0	47.7	46.0		Verti	Peak	+1.7
179	923.609	23.5	-2.6	+21.9			+0.0	42.8	46.0		Verti	Peak	-3.2
180	923.969	21.9	-2.6	+21.9			+0.0	41.2	46.0		Verti	Peak	-4.8
181	924.449	20.3	-2.6	+21.9			+0.0	39.6	46.0		Verti	Peak	-6.4
182	928.533	25.7	-2.6	+22.0			+0.0	45.1	46.0		Verti	Peak	-0.9
183	929.013	33.1	-2.6	+22.0			+0.0	52.5	46.0		Verti	Peak	+6.5
184	929.494	31.0	-2.6	+22.0			+0.0	50.4	46.0		Verti	Peak	+4.4
185	934.778	31.2	-2.6	+21.9			+0.0	50.5	46.0		Verti	Peak	+4.5
186	935.859	32.5	-2.6	+21.9			+0.0	51.8	46.0		Verti	Peak	+5.8
187	936.700	26.6	-2.6	+21.9			+0.0	45.9	46.0		Verti	Peak	-0.1
188	937.756	17.4	-2.5	+21.8			+0.0	36.7	46.0		Verti	Peak	-9.3
189	937.944	21.3	-2.5	+21.8			+0.0	40.6	46.0		Verti	Peak	-5.4
190	938.319	24.1	-2.5	+21.8			+0.0	43.4	46.0		Verti	Peak	-2.6
191	938.820	67.8	-2.5	+21.8			+0.0	87.1	46.0		Verti	Peak	+41.1
192	939.321	36.8	-2.5	+21.8			+0.0	56.1	46.0		Verti	Peak	+10.1
193	939.634	20.3	-2.5	+21.8			+0.0	39.6	46.0		Verti	Peak	-6.4
194	940.761	14.9	-2.5	+21.8			+0.0	34.2	46.0		Verti	Peak	-11.8
195	941.262	15.0	-2.5	+21.8			+0.0	34.3	46.0		Verti	Peak	-11.7
196	942.890	15.2	-2.5	+21.8			+0.0	34.5	46.0		Verti	Peak	-11.5
197	944.455	16.3	-2.5	+21.8			+0.0	35.6	46.0		Verti	Peak	-10.4
198	944.956	15.5	-2.5	+21.8			+0.0	34.8	46.0		Verti	Peak	-11.2
199	946.521	15.8	-2.5	+21.8			+0.0	35.1	46.0		Verti	Peak	-10.9
200	952.469	23.5	-2.5	+21.7			+0.0	42.7	46.0		Verti	Peak	-3.3





Wyle Laboratories

Customer: UNISYN
 Specification: FCC Class B RADIATED

Work Order #:	T56285	Date:	Wed Jul-01-2009
Test Type:	Radiated Scan	Time:	10:30:18
Equipment:	Voting Device	Sequence:	2
Manufacturer:	UNISYN	Tested By:	J. Smith <i>Jsmith 7-1-09</i>
Model:	Open Elect Voting Optical		
S/N:	UNI000004		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model#	S/N
*Voting Device	UNISYN	Open Elect Voting Optical	UNI000004
Interface	UNISYN	Open Elect Voting Interface	UNI150006
UPS	Entrust	ETR1500	0900268
UPS	Entrust	ETR1500	0900407

Support Devices:

Function	Manufacturer	Model#	S/N
None			

Test Conditions / Notes:

Vertical Active

Transducer Legend:

T1=Cable Wyle# 110111	T2=Wyle #114415 3M Vert
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Measurement Data:

#	Freq MHz	Rdng dB μ V	Readings listed by frequency.					Test Distance: 3 meters					
			T1	T2			Dist	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
1	32.196	18.4	-0.4	+17.9			+0.0	35.9	40.0		Verti	Peak	-4.1
2	32.243	14.1	-0.4	+17.9			+0.0	31.6	40.0		Verti	QP	-8.4
3	39.981	24.5	-0.5	+14.2			+0.0	38.2	40.0		Verti	Peak	-1.8
4	40.003	22.6	-0.5	+14.2			+0.0	36.3	40.0		Verti	QP	-3.7
5	40.014	22.3	-0.5	+14.2			+0.0	35.9	40.0		Verti	QP	-4.1
6	40.114	24.4	-0.5	+14.1			+0.0	38.0	40.0		Verti	Peak	-2.0
7	47.966	24.4	-0.6	+12.2			+0.0	36.0	40.0		Verti	Peak	-4.0
8	48.024	22.7	-0.6	+12.2			+0.0	34.3	40.0		Verti	QP	-5.7
9	50.024	22.1	-0.6	+12.0			+0.0	33.5	40.0		Verti	QP	-6.5
10	50.095	41.0	-0.6	+12.0			+0.0	52.4	40.0		Verti	Peak	+12.4
11	64.601	44.3	-0.7	+10.2			+0.0	53.8	40.0		Verti	Peak	+13.8
12	64.660	20.7	-0.7	+10.1			+0.0	30.0	40.0		Verti	QP	-10.0



Wyle Laboratories

Customer: UNISYN
 Specification: FCC Class B RADIATED

Work Order #:	T56285	Date:	Wed Jul-01-2009
Test Type:	Radiated Scan	Time:	10:30:18
Equipment:	Voting Device	Sequence:	2
Manufacturer:	UNISYN	Tested By:	J. Smith <i>Smith 7-1-09</i>
Model:	Open Elect Voting Optical		
S/N:	UNI000004		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model#	S/N
*Voting Device	UNISYN	Open Elect Voting Optical	UNI000004
Interface	UNISYN	Open Elect Voting Interface	UNI150006
UPS	Entrust	ETR1500	0900268
UPS	Entrust	ETR1500	0900407

Support Devices:

Function	Manufacturer	Model#	S/N
None			

Test Conditions / Notes:

Vertical Active

Transducer Legend:

T1=Cable Wyle# 110111	T2=Wyle #114415 3M Vert
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#	Freq MHz	Rdng dB μ V	Readings listed by frequency.			Test Distance: 3 meters						
			T1	T2		Dist	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
1	32.196	18.4	-0.4	+17.9		+0.0	35.9	40.0		Verti	Peak	-4.1
2	39.981	24.5	-0.5	+14.2		+0.0	38.2	40.0		Verti	Peak	-1.8
3	40.114	24.4	-0.5	+14.1		+0.0	38.0	40.0		Verti	Peak	-2.0
4	42.842	19.2	-0.6	+13.1		+0.0	31.7	40.0		Verti	Peak	-8.3
5	43.308	20.4	-0.6	+13.0		+0.0	32.8	40.0		Verti	Peak	-7.2
6	45.970	23.9	-0.6	+12.5		+0.0	35.8	40.0		Verti	Peak	-4.2
7	47.433	22.2	-0.6	+12.2		+0.0	33.8	40.0		Verti	Peak	-6.2
8	47.966	24.4	-0.6	+12.2		+0.0	36.0	40.0		Verti	Peak	-4.0
9	50.077	26.7	-0.6	+12.0		+0.0	38.1	40.0		Verti	QP	-1.9
10	50.095	41.0	-0.6	+12.0		+0.0	52.4	40.0		Verti	Peak	+12.4
11	51.958	22.8	-0.6	+11.9		+0.0	34.1	40.0		Verti	Peak	-5.9
12	54.221	25.8	-0.6	+11.4		+0.0	36.6	40.0		Verti	Peak	-3.4
13	64.518	27.9	-0.7	+10.2		+0.0	37.4	40.0		Verti	QP	-2.6
14	64.601	44.3	-0.7	+10.2		+0.0	53.8	40.0		Verti	Peak	+13.8
15	66.397	25.9	-0.7	+9.2		+0.0	34.4	40.0		Verti	Peak	-5.6
16	72.120	26.1	-0.7	+7.4		+0.0	32.8	40.0		Verti	Peak	-7.2
17	72.253	23.0	-0.7	+7.3		+0.0	29.6	40.0		Verti	Peak	-10.4
18	75.913	24.0	-0.8	+6.7		+0.0	29.9	40.0		Verti	Peak	-10.1
19	80.504	25.5	-0.6	+6.5		+0.0	31.4	40.0		Verti	Peak	-8.6
20	81.369	23.7	-0.7	+6.6		+0.0	29.6	40.0		Verti	Peak	-10.4
21	83.964	23.8	-0.8	+7.0		+0.0	30.0	40.0		Verti	Peak	-10.0
22	87.956	57.5	-0.8	+7.9		+0.0	64.6	40.0		Verti	Peak	+24.6
23	88.489	48.1	-0.8	+8.0		+0.0	55.3	43.5		Verti	Peak	+11.8
24	89.287	73.9	-0.8	+8.2		+0.0	81.3	43.5		Verti	Peak	+37.8
25	89.686	41.3	-0.8	+8.3		+0.0	48.8	43.5		Verti	Peak	+5.3
26	90.086	65.7	-0.8	+8.4		+0.0	73.3	43.5		Verti	Peak	+29.8
27	90.884	69.7	-0.8	+8.6		+0.0	77.5	43.5		Verti	Peak	+34.0
28	91.683	65.1	-0.8	+8.8		+0.0	73.1	43.5		Verti	Peak	+29.6
29	92.548	45.0	-0.7	+9.0		+0.0	53.3	43.5		Verti	Peak	+9.8
30	93.280	60.4	-0.7	+9.2		+0.0	68.9	43.5		Verti	Peak	+25.4
31	94.145	62.1	-0.7	+9.4		+0.0	70.8	43.5		Verti	Peak	+27.3
32	95.143	59.2	-0.7	+9.6		+0.0	68.1	43.5		Verti	Peak	+24.6
33	96.141	37.1	-0.7	+9.6		+0.0	46.0	43.5		Verti	Peak	+2.5
34	96.740	74.5	-0.7	+9.7		+0.0	83.5	43.5		Verti	Peak	+40.0
35	97.581	44.3	-0.8	+9.7		+0.0	53.2	43.5		Verti	Peak	+9.7

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Wyle Report No. T56285-01

Wyle Laboratories

#	Freq MHz	Rdng dB μ V	T1	T2		Dist	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
36	97.941	36.0	-0.8	+9.7		+0.0	44.9	43.5		Verti	Peak	+1.4
37	99.022	82.5	-0.8	+9.8		+0.0	91.5	43.5		Verti	Peak	+48.0
38	100.223	69.7	-0.8	+9.8		+0.0	78.7	43.5		Verti	Peak	+35.2
39	102.025	83.1	-0.8	+9.6		+0.0	91.9	43.5		Verti	Peak	+48.4
40	102.505	34.2	-0.8	+9.5		+0.0	42.9	43.5		Verti	Peak	-0.6
41	102.985	39.6	-0.8	+9.4		+0.0	48.2	43.5		Verti	Peak	+4.7
42	103.466	49.6	-0.8	+9.4		+0.0	58.2	43.5		Verti	Peak	+14.7
43	104.186	70.8	-0.8	+9.3		+0.0	79.3	43.5		Verti	Peak	+35.8
44	105.628	38.5	-0.9	+9.2		+0.0	46.8	43.5		Verti	Peak	+3.3
45	105.988	49.3	-0.9	+9.2		+0.0	57.6	43.5		Verti	Peak	+14.1
46	106.468	43.1	-0.9	+9.2		+0.0	51.4	43.5		Verti	Peak	+7.9
47	107.189	39.3	-0.9	+9.2		+0.0	47.6	43.5		Verti	Peak	+4.1
48	107.910	29.7	-0.9	+9.3		+0.0	38.1	43.5		Verti	Peak	-5.4
49	109.951	24.1	-0.9	+9.3		+0.0	32.5	43.5		Verti	Peak	-11.0
50	111.873	25.9	-0.9	+9.1		+0.0	34.1	43.5		Verti	Peak	-9.4
51	113.915	25.9	-0.9	+9.0		+0.0	34.0	43.5		Verti	Peak	-9.5
52	117.878	27.2	-0.9	+8.8		+0.0	35.1	43.5		Verti	Peak	-8.4
53	118.839	27.6	-0.9	+8.8		+0.0	35.5	43.5		Verti	Peak	-8.0
54	119.559	26.4	-0.9	+8.8		+0.0	34.3	43.5		Verti	Peak	-9.2
55	119.920	29.0	-0.9	+8.8		+0.0	36.9	43.5		Verti	Peak	-6.6
56	121.241	30.8	-0.9	+8.7		+0.0	38.6	43.5		Verti	Peak	-4.9
57	121.961	24.5	-0.9	+8.7		+0.0	32.3	43.5		Verti	Peak	-11.2
58	124.003	26.0	-0.9	+8.6		+0.0	33.7	43.5		Verti	Peak	-9.8
59	126.885	25.9	-0.9	+8.6		+0.0	33.6	43.5		Verti	Peak	-9.9
60	132.050	32.3	-0.9	+8.4		+0.0	39.8	43.5		Verti	Peak	-3.7
61	138.055	25.2	-1.0	+8.6		+0.0	32.8	43.5		Verti	Peak	-10.7
62	139.976	24.8	-1.0	+8.8		+0.0	32.6	43.5		Verti	Peak	-10.9
63	144.060	28.5	-1.0	+9.4		+0.0	36.9	43.5		Verti	Peak	-6.6
64	145.981	23.6	-1.1	+9.4		+0.0	31.9	43.5		Verti	Peak	-11.6
65	150.065	30.0	-1.1	+9.2		+0.0	38.1	43.5		Verti	Peak	-5.4
66	151.986	26.1	-1.1	+9.0		+0.0	34.0	43.5		Verti	Peak	-9.5
67	154.989	40.2	-1.0	+8.6		+0.0	47.8	43.5		Verti	Peak	+4.3
68	156.070	27.8	-1.0	+8.6		+0.0	35.4	43.5		Verti	Peak	-8.1
69	157.991	25.2	-1.0	+8.7		+0.0	32.9	43.5		Verti	Peak	-10.6
70	160.033	27.6	-1.0	+8.7		+0.0	35.3	43.5		Verti	Peak	-8.2
71	161.114	28.7	-1.0	+8.7		+0.0	36.4	43.5		Verti	Peak	-7.1
72	162.075	34.6	-1.0	+8.7		+0.0	42.3	43.5		Verti	Peak	-1.2
73	162.435	52.1	-1.0	+8.7		+0.0	59.8	43.5		Verti	Peak	+16.3
74	166.038	24.8	-1.1	+8.8		+0.0	32.5	43.5		Verti	Peak	-11.0
75	168.080	34.3	-1.1	+8.7		+0.0	41.9	43.5		Verti	Peak	-1.6
76	172.043	26.2	-1.1	+8.8		+0.0	33.9	43.5		Verti	Peak	-9.6
77	172.523	42.5	-1.1	+8.8		+0.0	50.2	43.5		Verti	Peak	+6.7
78	173.724	46.7	-1.1	+8.8		+0.0	54.4	43.5		Verti	Peak	+10.9
79	199.306	39.2	-1.2	+10.4		+0.0	48.4	43.5		Verti	Peak	+4.9
80	203.869	28.8	-1.2	+10.5		+0.0	38.1	43.5		Verti	Peak	-5.4
81	239.899	25.3	-1.3	+11.2		+0.0	35.2	46.0		Verti	Peak	-10.8
82	386.583	21.9	-1.6	+14.9		+0.0	35.2	46.0		Verti	Peak	-10.8
83	401.969	21.3	-1.6	+15.2		+0.0	34.9	46.0		Verti	Peak	-11.1
84	406.897	39.2	-1.6	+15.6		+0.0	53.2	46.0		Verti	Peak	+7.2
85	407.979	21.2	-1.6	+15.6		+0.0	35.2	46.0		Verti	Peak	-10.8
86	413.989	21.2	-1.7	+15.7		+0.0	35.2	46.0		Verti	Peak	-10.8
87	418.797	21.6	-1.7	+15.5		+0.0	35.4	46.0		Verti	Peak	-10.6
88	419.999	21.5	-1.7	+15.4		+0.0	35.2	46.0		Verti	Peak	-10.8
89	433.461	21.2	-1.7	+15.8		+0.0	35.3	46.0		Verti	Peak	-10.7
90	451.130	26.4	-1.8	+15.6		+0.0	40.2	46.0		Verti	Peak	-5.8
91	452.573	33.9	-1.8	+15.7		+0.0	47.8	46.0		Verti	Peak	+1.8
92	460.023	22.2	-1.8	+16.0		+0.0	36.4	46.0		Verti	Peak	-9.6
93	460.383	22.8	-1.8	+16.0		+0.0	37.0	46.0		Verti	Peak	-9.0
94	462.184	25.9	-1.8	+16.2		+0.0	40.3	46.0		Verti	Peak	-5.7
95	464.827	34.4	-1.8	+16.4		+0.0	49.0	46.0		Verti	Peak	+3.0
96	470.351	37.2	-1.8	+16.7		+0.0	52.1	46.0		Verti	Peak	+6.1
97	474.194	39.7	-1.8	+16.5		+0.0	54.4	46.0		Verti	Peak	+8.4
98	483.202	22.1	-1.8	+16.3		+0.0	36.6	46.0		Verti	Peak	-9.4

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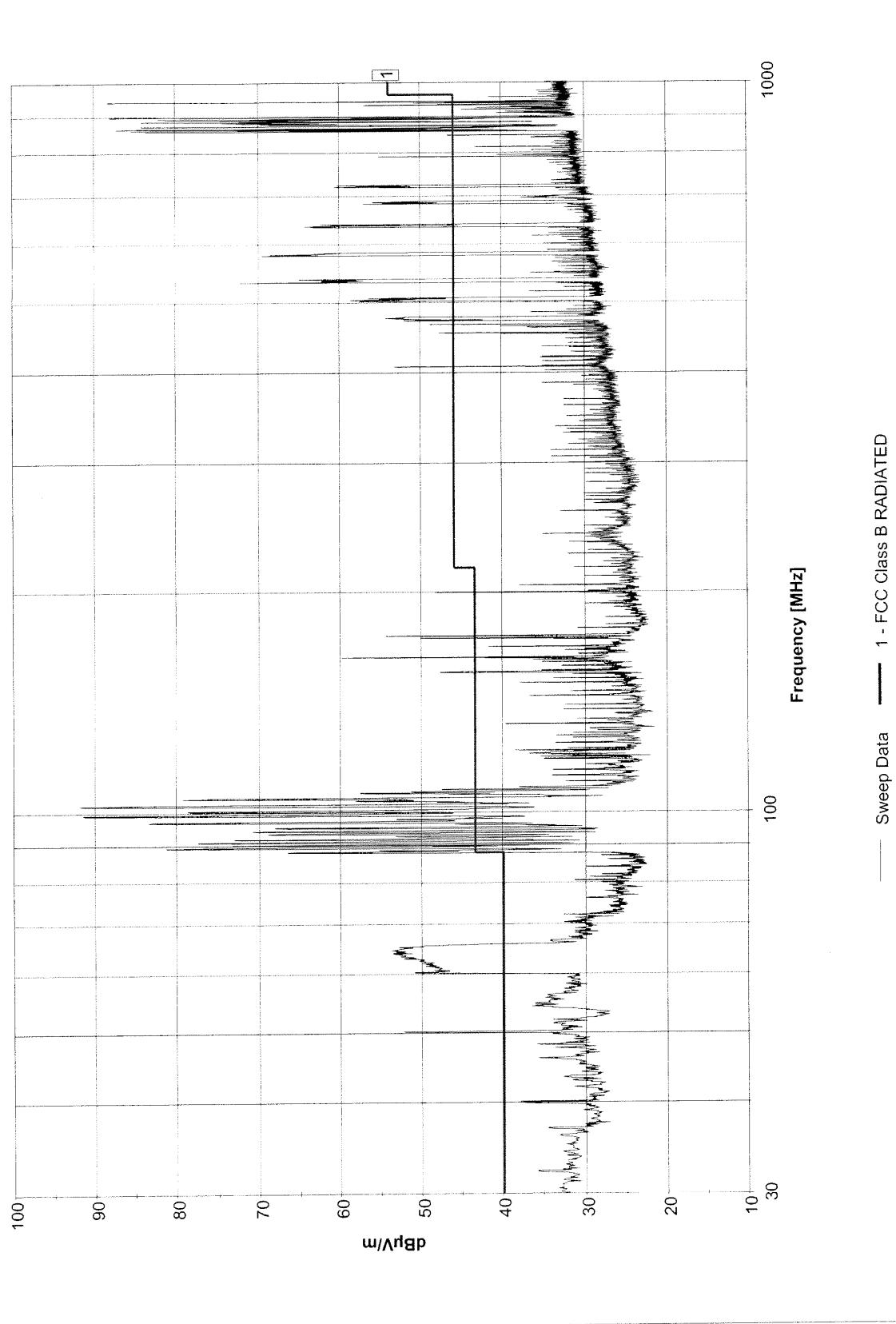
#	Freq MHz	Rdng dB μ V	T1	T2		Dist	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
99	500.256	42.3	-1.9	+17.1		+0.0	57.5	46.0		Verti	Peak	+11.5
100	501.817	43.5	-1.9	+17.1		+0.0	58.7	46.0		Verti	Peak	+12.7
101	504.460	41.3	-1.9	+17.1		+0.0	56.5	46.0		Verti	Peak	+10.5
102	515.509	21.8	-1.9	+16.9		+0.0	36.8	46.0		Verti	Peak	-9.2
103	530.281	57.1	-1.9	+17.2		+0.0	72.4	46.0		Verti	Peak	+26.4
104	532.083	46.9	-1.9	+17.3		+0.0	62.3	46.0		Verti	Peak	+16.3
105	533.884	46.7	-1.9	+17.4		+0.0	62.2	46.0		Verti	Peak	+16.2
106	535.325	49.5	-1.9	+17.4		+0.0	65.0	46.0		Verti	Peak	+19.0
107	546.014	21.4	-2.0	+17.2		+0.0	36.6	46.0		Verti	Peak	-9.4
108	578.201	53.9	-2.1	+17.8		+0.0	69.6	46.0		Verti	Peak	+23.6
109	580.003	53.0	-2.1	+17.7		+0.0	68.6	46.0		Verti	Peak	+22.6
110	587.929	18.7	-2.0	+17.9		+0.0	34.6	46.0		Verti	Peak	-11.4
111	599.939	18.8	-2.0	+18.2		+0.0	35.0	46.0		Verti	Peak	-11.0
112	615.072	20.4	-2.1	+18.2		+0.0	36.5	46.0		Verti	Peak	-9.5
113	619.636	18.4	-2.1	+18.1		+0.0	34.4	46.0		Verti	Peak	-11.6
114	629.844	18.0	-2.1	+18.6		+0.0	34.5	46.0		Verti	Peak	-11.5
115	633.327	47.8	-2.1	+18.6		+0.0	64.3	46.0		Verti	Peak	+18.3
116	637.290	46.0	-2.1	+18.5		+0.0	62.4	46.0		Verti	Peak	+16.4
117	680.046	40.5	-2.3	+18.9		+0.0	57.1	46.0		Verti	Peak	+11.1
118	681.247	38.0	-2.3	+19.0		+0.0	54.7	46.0		Verti	Peak	+8.7
119	683.289	39.2	-2.3	+19.0		+0.0	55.9	46.0		Verti	Peak	+9.9
120	684.850	36.7	-2.3	+19.1		+0.0	53.5	46.0		Verti	Peak	+7.5
121	693.257	21.0	-2.2	+19.0		+0.0	37.8	46.0		Verti	Peak	-8.2
122	717.397	43.6	-2.3	+19.4		+0.0	60.7	46.0		Verti	Peak	+14.7
123	719.559	40.5	-2.3	+19.5		+0.0	57.7	46.0		Verti	Peak	+11.7
124	720.760	43.1	-2.3	+19.5		+0.0	60.3	46.0		Verti	Peak	+14.3
125	773.003	16.5	-2.4	+20.2		+0.0	34.3	46.0		Verti	Peak	-11.7
126	779.729	16.7	-2.4	+20.3		+0.0	34.6	46.0		Verti	Peak	-11.4
127	788.977	37.5	-2.4	+20.1		+0.0	55.2	46.0		Verti	Peak	+9.2
128	792.580	19.7	-2.4	+20.2		+0.0	37.5	46.0		Verti	Peak	-8.5
129	793.540	22.9	-2.4	+20.2		+0.0	40.7	46.0		Verti	Peak	-5.3
130	805.190	18.5	-2.4	+20.4		+0.0	36.5	46.0		Verti	Peak	-9.5
131	813.477	25.3	-2.4	+20.5		+0.0	43.4	46.0		Verti	Peak	-2.6
132	837.497	18.4	-2.5	+20.6		+0.0	36.5	46.0		Verti	Peak	-9.5
133	839.419	17.9	-2.5	+20.6		+0.0	36.0	46.0		Verti	Peak	-10.0
134	843.622	28.5	-2.5	+20.7		+0.0	46.7	46.0		Verti	Peak	+0.7
135	854.071	65.6	-2.6	+20.7		+0.0	83.7	46.0		Verti	Peak	+37.7
136	855.512	48.1	-2.6	+20.7		+0.0	66.2	46.0		Verti	Peak	+20.2
137	856.112	47.4	-2.6	+20.7		+0.0	65.5	46.0		Verti	Peak	+19.5
138	856.833	47.1	-2.6	+20.7		+0.0	65.2	46.0		Verti	Peak	+19.2
139	857.193	67.4	-2.6	+20.7		+0.0	85.5	46.0		Verti	Peak	+39.5
140	857.914	53.7	-2.6	+20.8		+0.0	71.9	46.0		Verti	Peak	+25.9
141	858.394	54.3	-2.6	+20.8		+0.0	72.5	46.0		Verti	Peak	+26.5
142	859.355	52.6	-2.6	+20.8		+0.0	70.8	46.0		Verti	Peak	+24.8
143	859.956	64.8	-2.6	+20.8		+0.0	83.0	46.0		Verti	Peak	+37.0
144	860.196	69.1	-2.6	+20.8		+0.0	87.3	46.0		Verti	Peak	+41.3
145	860.676	58.7	-2.6	+20.8		+0.0	76.9	46.0		Verti	Peak	+30.9
146	861.277	54.7	-2.6	+20.8		+0.0	72.9	46.0		Verti	Peak	+26.9
147	862.238	66.6	-2.6	+20.8		+0.0	84.8	46.0		Verti	Peak	+38.8
148	863.318	37.6	-2.6	+20.9		+0.0	55.9	46.0		Verti	Peak	+9.9
149	863.919	36.7	-2.6	+20.9		+0.0	55.0	46.0		Verti	Peak	+9.0
150	865.120	29.3	-2.6	+20.9		+0.0	47.6	46.0		Verti	Peak	+1.6
151	866.201	20.3	-2.6	+20.9		+0.0	38.6	46.0		Verti	Peak	-7.4
152	866.921	25.3	-2.6	+20.9		+0.0	43.6	46.0		Verti	Peak	-2.4
153	868.122	66.0	-2.6	+20.8		+0.0	84.2	46.0		Verti	Peak	+38.2
154	868.603	44.6	-2.6	+20.8		+0.0	62.8	46.0		Verti	Peak	+16.8
155	873.047	51.4	-2.6	+20.9		+0.0	69.7	46.0		Verti	Peak	+23.7
156	874.007	45.7	-2.6	+20.9		+0.0	64.0	46.0		Verti	Peak	+18.0
157	875.449	53.7	-2.6	+20.9		+0.0	72.0	46.0		Verti	Peak	+26.0
158	878.691	56.0	-2.6	+21.0		+0.0	74.4	46.0		Verti	Peak	+28.4
159	879.892	52.9	-2.6	+21.0		+0.0	71.3	46.0		Verti	Peak	+25.3
160	880.613	65.8	-2.6	+21.0		+0.0	84.2	46.0		Verti	Peak	+38.2
161	882.174	53.9	-2.6	+21.0		+0.0	72.3	46.0		Verti	Peak	+26.3

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#	Freq MHz	Rdng dB μ V	T1	T2		Dist	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
162	885.057	56.1	-2.6	+21.1		+0.0	74.6	46.0		Verti	Peak	+28.6
163	885.897	62.8	-2.6	+21.1		+0.0	81.3	46.0		Verti	Peak	+35.3
164	886.618	51.7	-2.6	+21.1		+0.0	70.2	46.0		Verti	Peak	+24.2
165	887.098	52.5	-2.6	+21.1		+0.0	71.0	46.0		Verti	Peak	+25.0
166	888.539	63.6	-2.6	+21.2		+0.0	82.2	46.0		Verti	Peak	+36.2
167	889.140	39.8	-2.6	+21.2		+0.0	58.4	46.0		Verti	Peak	+12.4
168	891.422	39.8	-2.6	+21.2		+0.0	58.4	46.0		Verti	Peak	+12.4
169	892.863	69.5	-2.6	+21.2		+0.0	88.1	46.0		Verti	Peak	+42.1
170	893.464	45.1	-2.6	+21.2		+0.0	63.7	46.0		Verti	Peak	+17.7
171	901.750	16.7	-2.6	+21.2		+0.0	35.3	46.0		Verti	Peak	-10.7
172	905.233	22.0	-2.6	+21.3		+0.0	40.7	46.0		Verti	Peak	-5.3
173	906.074	19.8	-2.6	+21.3		+0.0	38.5	46.0		Verti	Peak	-7.5
174	906.554	17.3	-2.6	+21.3		+0.0	36.0	46.0		Verti	Peak	-10.0
175	907.876	18.6	-2.6	+21.4		+0.0	37.4	46.0		Verti	Peak	-8.6
176	910.278	20.8	-2.6	+21.4		+0.0	39.6	46.0		Verti	Peak	-6.4
177	910.638	17.4	-2.6	+21.4		+0.0	36.2	46.0		Verti	Peak	-9.8
178	916.643	25.9	-2.6	+21.7		+0.0	45.0	46.0		Verti	Peak	-1.0
179	917.123	24.4	-2.6	+21.7		+0.0	43.5	46.0		Verti	Peak	-2.5
180	917.604	23.6	-2.6	+21.7		+0.0	42.7	46.0		Verti	Peak	-3.3
181	919.045	18.5	-2.6	+21.8		+0.0	37.7	46.0		Verti	Peak	-8.3
182	919.886	17.2	-2.6	+21.8		+0.0	36.4	46.0		Verti	Peak	-9.6
183	921.687	24.0	-2.6	+21.8		+0.0	43.2	46.0		Verti	Peak	-2.8
184	922.167	22.5	-2.6	+21.8		+0.0	41.7	46.0		Verti	Peak	-4.3
185	923.609	19.6	-2.6	+21.9		+0.0	38.9	46.0		Verti	Peak	-7.1
186	924.089	16.4	-2.6	+21.9		+0.0	35.7	46.0		Verti	Peak	-10.3
187	925.170	19.8	-2.6	+21.9		+0.0	39.1	46.0		Verti	Peak	-6.9
188	929.133	37.6	-2.6	+22.0		+0.0	57.0	46.0		Verti	Peak	+11.0
189	931.535	28.5	-2.6	+22.0		+0.0	47.9	46.0		Verti	Peak	+1.9
190	934.778	31.6	-2.6	+21.9		+0.0	50.9	46.0		Verti	Peak	+4.9
191	935.859	31.1	-2.6	+21.9		+0.0	50.4	46.0		Verti	Peak	+4.4
192	936.700	27.7	-2.6	+21.9		+0.0	47.0	46.0		Verti	Peak	+1.0
193	937.756	18.2	-2.5	+21.8		+0.0	37.5	46.0		Verti	Peak	-8.5
194	938.319	27.4	-2.5	+21.8		+0.0	46.7	46.0		Verti	Peak	+0.7
195	938.883	69.1	-2.5	+21.8		+0.0	88.4	46.0		Verti	Peak	+42.4
196	939.321	41.0	-2.5	+21.8		+0.0	60.3	46.0		Verti	Peak	+14.3
197	939.634	18.9	-2.5	+21.8		+0.0	38.2	46.0		Verti	Peak	-7.8
198	940.197	37.6	-2.5	+21.8		+0.0	56.9	46.0		Verti	Peak	+10.9
199	941.262	20.3	-2.5	+21.8		+0.0	39.6	46.0		Verti	Peak	-6.4
200	945.018	17.1	-2.5	+21.8		+0.0	36.4	46.0		Verti	Peak	-9.6
201	952.469	22.5	-2.5	+21.7		+0.0	41.7	46.0		Verti	Peak	-4.3
202	959.982	16.2	-2.5	+21.6		+0.0	35.3	46.0		Verti	Peak	-10.7

Wyle Laboratories Date: 7/1/2009 Time: 10:30:18 UNISYN WO#: T56285
FCC Class B RADIATED Test Distance: 3 meters Sequence#: 2
Vertical Active





Wyle Laboratories

Customer: UNISYN
 Specification: FCC Class B RADIATED

Work Order #:	T56285	Date:	Wed Jul-01-2009
Test Type:	Radiated Scan	Time:	10:37:36 AM
Equipment:	Voting Device	Sequence:	3
Manufacturer:	UNISYN	Tested By:	J. Smith <i>JSmet 7-1-09</i>
Model:	Open Elect Voting Optical		
S/N:	UNI000004		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model#	S/N
*Voting Device	UNISYN	Open Elect Voting Optical	UNI000004
Interface	UNISYN	Open Elect Voting Interface	UNI150006
UPS	Entrust	ETR1500	0900268
UPS	Entrust	ETR1500	0900407

Support Devices:

Function	Manufacturer	Model#	S/N
None			

Test Conditions / Notes:

Horizontal Active

Transducer Legend:

T1=Cable Wyle# 110111	T2=Wyle #114415 3M Horz
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Measurement Data:

#	Freq MHz	Rdng dB μ V	Readings listed by frequency.				Test Distance: 3 meters					
			T1	T2			Dist	Corr dB μ V/m	Spec dB μ V/m	Polar	Type	Margin
1	32.196	15.1	-0.4	+19.6			+0.0	34.3	40.0	Horiz	Peak	-5.7
2	32.238	9.4	-0.4	+19.6			+0.0	28.6	40.0	Horiz	QP	-11.4
3	39.981	18.1	-0.5	+16.4			+0.0	34.0	40.0	Horiz	Peak	-6.0
4	40.003	13.7	-0.5	+16.4			+0.0	29.6	40.0	Horiz	QP	-10.4
5	50.024	14.4	-0.6	+13.5			+0.0	27.3	40.0	Horiz	QP	-12.7
6	50.029	18.7	-0.6	+13.5			+0.0	31.6	40.0	Horiz	Peak	-8.4
7	61.806	20.6	-0.6	+10.8			+0.0	30.8	40.0	Horiz	Peak	-9.2
8	61.906	8.9	-0.6	+10.7			+0.0	19.0	40.0	Horiz	QP	-21.0
9	88.525	30.0	-0.8	+7.3			+0.0	36.5	43.5	Horiz	QP	-7.0
10	88.555	33.0	-0.8	+7.3			+0.0	39.5	43.5	Horiz	Peak	-4.0
11	92.548	30.6	-0.7	+7.9			+0.0	37.8	43.5	Horiz	Peak	-5.7
12	92.553	28.7	-0.7	+7.9			+0.0	35.9	43.5	Horiz	QP	-7.6



Wyle Laboratories

Customer: UNISYN
 Specification: FCC Class B RADIATED

Work Order #:	T56285	Date:	Wed Jul-01-2009
Test Type:	Radiated Scan	Time:	10:37:36 AM
Equipment:	Voting Device	Sequence:	3
Manufacturer:	UNISYN	Tested By:	J. Smith <i>J. Smith 7-1-09</i>
Model:	Open Elect Voting Optical		
S/N:	UNI000004		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model#	S/N
*Voting Device	UNISYN	Open Elect Voting Optical	UNI000004
Interface	UNISYN	Open Elect Voting Interface	UNI150006
UPS	Entrust	ETR1500	0900268
UPS	Entrust	ETR1500	0900407

Support Devices:

Function	Manufacturer	Model#	S/N
None			

Test Conditions / Notes:

Horizontal Active

Transducer Legend:

T1=Cable Wyle# 110111	T2=Wyle #114415 3M Horz
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#	Freq MHz	Rdng dB μ V	Readings listed by frequency.				Test Distance: 3 meters			
			T1	T2	Dist	Corr dB μ V/m	Spec dB μ V/m	Polar	Type	Margin
1	32.196	15.1	-0.4	+19.6	+0.0	34.3	40.0	Horiz	Peak	-5.7
2	39.981	18.1	-0.5	+16.4	+0.0	34.0	40.0	Horiz	Peak	-6.0
3	50.029	18.7	-0.6	+13.5	+0.0	31.6	40.0	Horiz	Peak	-8.4
4	61.806	20.6	-0.6	+10.8	+0.0	30.8	40.0	Horiz	Peak	-9.2
5	72.186	21.2	-0.7	+8.5	+0.0	29.0	40.0	Horiz	Peak	-11.0
6	75.979	20.6	-0.8	+7.7	+0.0	27.5	40.0	Horiz	Peak	-12.5
7	88.156	45.2	-0.8	+7.3	+0.0	51.7	43.5	Horiz	Peak	+8.2
8	88.555	33.0	-0.8	+7.3	+0.0	39.5	43.5	Horiz	Peak	-4.0
9	89.420	64.3	-0.8	+7.4	+0.0	70.9	43.5	Horiz	Peak	+27.4
10	90.285	58.8	-0.8	+7.5	+0.0	65.5	43.5	Horiz	Peak	+22.0
11	91.017	62.1	-0.8	+7.6	+0.0	68.9	43.5	Horiz	Peak	+25.4
12	91.816	56.3	-0.8	+7.7	+0.0	63.2	43.5	Horiz	Peak	+19.7
13	92.548	30.6	-0.7	+7.9	+0.0	37.8	43.5	Horiz	Peak	-5.7
14	93.346	57.0	-0.7	+8.0	+0.0	64.3	43.5	Horiz	Peak	+20.8
15	94.145	42.2	-0.7	+8.1	+0.0	49.6	43.5	Horiz	Peak	+6.1
16	95.143	55.6	-0.7	+8.3	+0.0	63.2	43.5	Horiz	Peak	+19.7
17	96.008	33.0	-0.7	+8.4	+0.0	40.7	43.5	Horiz	Peak	-2.8
18	96.740	66.5	-0.7	+8.5	+0.0	74.3	43.5	Horiz	Peak	+30.8
19	97.581	31.2	-0.8	+8.7	+0.0	39.1	43.5	Horiz	Peak	-4.4
20	98.302	24.7	-0.8	+8.8	+0.0	32.7	43.5	Horiz	Peak	-10.8
21	99.142	53.1	-0.8	+8.9	+0.0	61.2	43.5	Horiz	Peak	+17.7
22	99.382	33.6	-0.8	+8.9	+0.0	41.7	43.5	Horiz	Peak	-1.8
23	100.223	50.9	-0.8	+9.0	+0.0	59.1	43.5	Horiz	Peak	+15.6
24	101.064	31.3	-0.8	+9.1	+0.0	39.6	43.5	Horiz	Peak	-3.9
25	102.025	65.5	-0.8	+9.1	+0.0	73.8	43.5	Horiz	Peak	+30.3
26	103.466	58.1	-0.8	+9.2	+0.0	66.5	43.5	Horiz	Peak	+23.0
27	104.186	65.1	-0.8	+9.3	+0.0	73.6	43.5	Horiz	Peak	+30.1
28	106.108	39.8	-0.9	+9.3	+0.0	48.2	43.5	Horiz	Peak	+4.7
29	106.348	36.9	-0.9	+9.3	+0.0	45.3	43.5	Horiz	Peak	+1.8
30	107.309	36.3	-0.9	+9.3	+0.0	44.7	43.5	Horiz	Peak	+1.2
31	144.060	23.1	-1.0	+9.0	+0.0	31.1	43.5	Horiz	Peak	-12.4
32	161.114	28.1	-1.0	+8.8	+0.0	35.9	43.5	Horiz	Peak	-7.6
33	162.075	29.6	-1.0	+8.8	+0.0	37.4	43.5	Horiz	Peak	-6.1
34	162.435	41.4	-1.0	+8.8	+0.0	49.2	43.5	Horiz	Peak	+5.7
35	163.396	24.1	-1.0	+8.8	+0.0	31.9	43.5	Horiz	Peak	-11.6

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#	Freq MHz	Rdng dB μ V	T1	T2			Dist	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
36	168.080	27.6	-1.1	+8.9			+0.0	35.4	43.5		Horiz	Peak	-8.1
37	173.844	31.9	-1.1	+9.2			+0.0	40.0	43.5		Horiz	Peak	-3.5
38	174.085	25.4	-1.1	+9.2			+0.0	33.5	43.5		Horiz	Peak	-10.0
39	186.095	25.8	-1.1	+10.3			+0.0	35.0	43.5		Horiz	Peak	-8.5
40	193.421	21.4	-1.1	+10.4			+0.0	30.7	43.5		Horiz	Peak	-12.8
41	199.426	43.4	-1.2	+10.3			+0.0	52.5	43.5		Horiz	Peak	+9.0
42	203.869	38.6	-1.2	+10.3			+0.0	47.7	43.5		Horiz	Peak	+4.2
43	210.115	26.1	-1.1	+10.5			+0.0	35.5	43.5		Horiz	Peak	-8.0
44	211.916	26.6	-1.1	+10.6			+0.0	36.1	43.5		Horiz	Peak	-7.4
45	214.078	21.6	-1.1	+10.7			+0.0	31.2	43.5		Horiz	Peak	-12.3
46	221.884	24.7	-1.2	+10.8			+0.0	34.3	46.0		Horiz	Peak	-11.7
47	225.367	26.1	-1.3	+10.8			+0.0	35.6	46.0		Horiz	Peak	-10.4
48	227.889	24.4	-1.3	+10.9			+0.0	34.0	46.0		Horiz	Peak	-12.0
49	233.174	24.6	-1.3	+11.0			+0.0	34.3	46.0		Horiz	Peak	-11.7
50	239.899	30.2	-1.3	+11.1			+0.0	40.0	46.0		Horiz	Peak	-6.0
51	240.380	26.6	-1.3	+11.1			+0.0	36.4	46.0		Horiz	Peak	-9.6
52	240.980	26.9	-1.3	+11.2			+0.0	36.8	46.0		Horiz	Peak	-9.2
53	257.554	23.5	-1.3	+12.4			+0.0	34.6	46.0		Horiz	Peak	-11.4
54	263.919	22.6	-1.3	+12.5			+0.0	33.8	46.0		Horiz	Peak	-12.2
55	264.520	24.0	-1.3	+12.5			+0.0	35.2	46.0		Horiz	Peak	-10.8
56	265.120	24.9	-1.3	+12.5			+0.0	36.1	46.0		Horiz	Peak	-9.9
57	288.540	21.7	-1.4	+12.9			+0.0	33.2	46.0		Horiz	Peak	-12.8
58	289.381	21.8	-1.4	+13.0			+0.0	33.4	46.0		Horiz	Peak	-12.6
59	299.829	21.1	-1.5	+13.4			+0.0	33.0	46.0		Horiz	Peak	-13.0
60	317.844	23.2	-1.5	+13.8			+0.0	35.5	46.0		Horiz	Peak	-10.5
61	323.849	25.3	-1.5	+13.8			+0.0	37.6	46.0		Horiz	Peak	-8.4
62	335.739	21.9	-1.5	+14.1			+0.0	34.5	46.0		Horiz	Peak	-11.5
63	341.869	21.4	-1.5	+14.3			+0.0	34.2	46.0		Horiz	Peak	-11.8
64	353.889	21.8	-1.5	+14.5			+0.0	34.8	46.0		Horiz	Peak	-11.2
65	359.899	25.2	-1.5	+14.8			+0.0	38.5	46.0		Horiz	Peak	-7.5
66	365.909	25.8	-1.6	+15.1			+0.0	39.3	46.0		Horiz	Peak	-6.7
67	366.630	24.3	-1.6	+15.1			+0.0	37.8	46.0		Horiz	Peak	-8.2
68	371.919	22.0	-1.6	+15.2			+0.0	35.6	46.0		Horiz	Peak	-10.4
69	383.939	20.6	-1.6	+15.0			+0.0	34.0	46.0		Horiz	Peak	-12.0
70	389.949	21.4	-1.6	+15.2			+0.0	35.0	46.0		Horiz	Peak	-11.0
71	394.516	37.3	-1.6	+15.5			+0.0	51.2	46.0		Horiz	Peak	+5.2
72	395.959	21.0	-1.6	+15.5			+0.0	34.9	46.0		Horiz	Peak	-11.1
73	401.969	22.4	-1.6	+15.6			+0.0	36.4	46.0		Horiz	Peak	-9.6
74	406.176	29.0	-1.6	+15.6			+0.0	43.0	46.0		Horiz	Peak	-3.0
75	406.777	31.8	-1.6	+15.6			+0.0	45.8	46.0		Horiz	Peak	-0.2
76	407.618	33.9	-1.6	+15.7			+0.0	48.0	46.0		Horiz	Peak	+2.0
77	407.979	19.8	-1.6	+15.7			+0.0	33.9	46.0		Horiz	Peak	-12.1
78	409.661	25.9	-1.6	+15.7			+0.0	40.0	46.0		Horiz	Peak	-6.0
79	419.999	19.9	-1.7	+16.5			+0.0	34.7	46.0		Horiz	Peak	-11.3
80	426.009	18.7	-1.7	+16.4			+0.0	33.4	46.0		Horiz	Peak	-12.6
81	432.019	18.8	-1.7	+16.2			+0.0	33.3	46.0		Horiz	Peak	-12.7
82	438.029	20.3	-1.8	+16.1			+0.0	34.6	46.0		Horiz	Peak	-11.4
83	451.371	21.3	-1.8	+16.3			+0.0	35.8	46.0		Horiz	Peak	-10.2
84	453.054	28.1	-1.8	+16.4			+0.0	42.7	46.0		Horiz	Peak	-3.3
85	460.983	22.0	-1.8	+16.5			+0.0	36.7	46.0		Horiz	Peak	-9.3
86	461.344	24.2	-1.8	+16.5			+0.0	38.9	46.0		Horiz	Peak	-7.1
87	462.184	21.9	-1.8	+16.5			+0.0	36.6	46.0		Horiz	Peak	-9.4
88	462.905	25.3	-1.8	+16.6			+0.0	40.1	46.0		Horiz	Peak	-5.9
89	463.746	22.0	-1.8	+16.6			+0.0	36.8	46.0		Horiz	Peak	-9.2
90	464.586	21.8	-1.8	+16.6			+0.0	36.6	46.0		Horiz	Peak	-9.4
91	470.231	47.5	-1.8	+16.7			+0.0	62.4	46.0		Horiz	Peak	+16.4
92	475.516	38.8	-1.8	+16.7			+0.0	53.7	46.0		Horiz	Peak	+7.7
93	501.217	47.2	-1.9	+17.2			+0.0	62.5	46.0		Horiz	Peak	+16.5
94	503.739	43.0	-1.9	+17.1			+0.0	58.2	46.0		Horiz	Peak	+12.2
95	504.460	43.5	-1.9	+17.1			+0.0	58.7	46.0		Horiz	Peak	+12.7
96	515.509	20.9	-1.9	+17.3			+0.0	36.3	46.0		Horiz	Peak	-9.7
97	530.882	51.4	-1.9	+17.7			+0.0	67.2	46.0		Horiz	Peak	+21.2
98	532.563	52.9	-1.9	+17.8			+0.0	68.8	46.0		Horiz	Peak	+22.8

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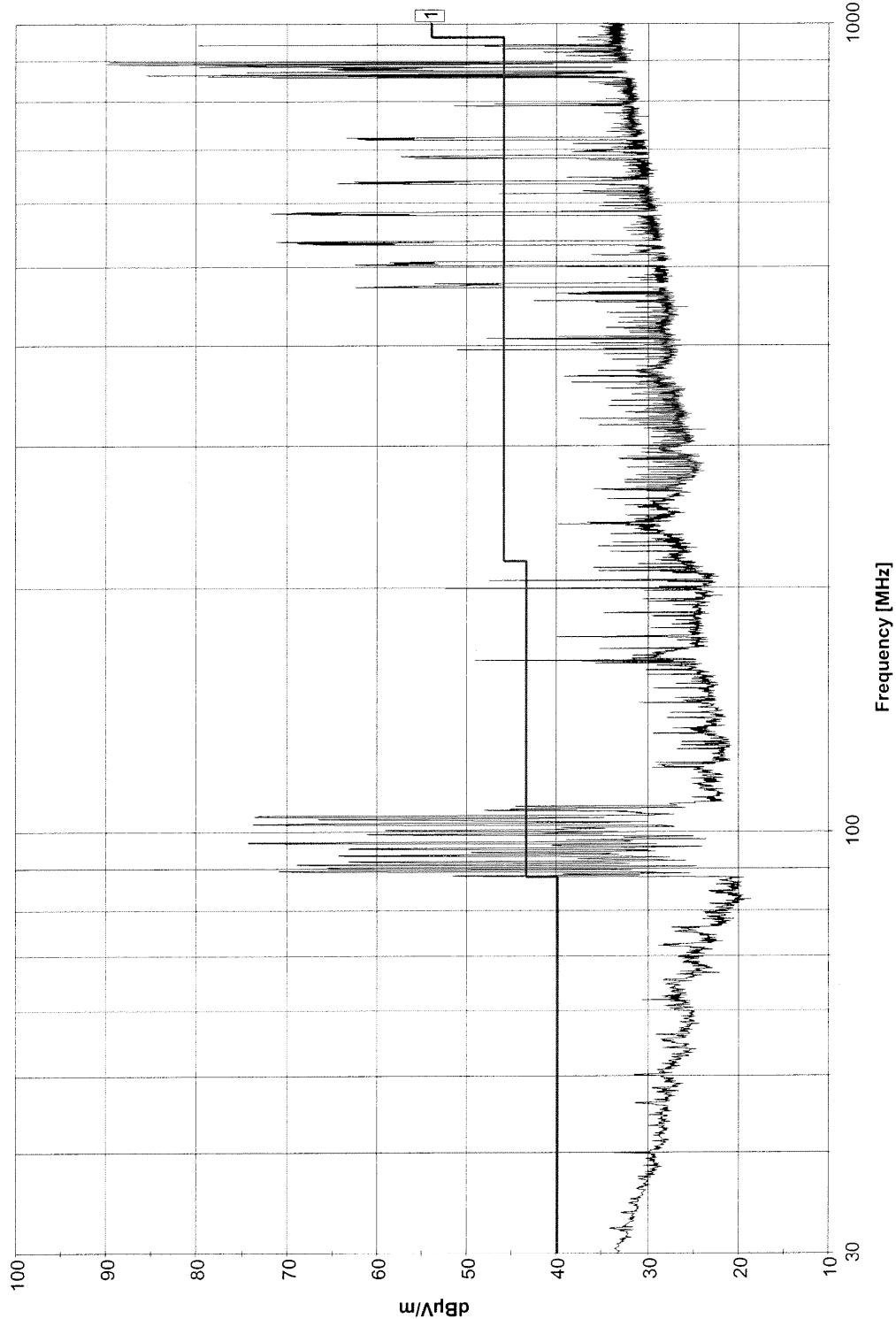
#	Freq MHz	Rdng dBuV	T1	T2			Dist	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
99	534.725	55.3	-1.9	+17.8			+0.0	71.2	46.0		Horiz	Peak	+25.2
100	535.686	50.9	-1.9	+17.8			+0.0	66.8	46.0		Horiz	Peak	+20.8
101	578.201	45.6	-2.1	+18.5			+0.0	62.0	46.0		Horiz	Peak	+16.0
102	579.282	51.1	-2.1	+18.4			+0.0	67.4	46.0		Horiz	Peak	+21.4
103	581.083	55.5	-2.1	+18.4			+0.0	71.8	46.0		Horiz	Peak	+25.8
104	582.044	53.2	-2.1	+18.4			+0.0	69.5	46.0		Horiz	Peak	+23.5
105	582.645	53.1	-2.1	+18.4			+0.0	69.4	46.0		Horiz	Peak	+23.4
106	585.167	23.4	-2.1	+18.4			+0.0	39.7	46.0		Horiz	Peak	-6.3
107	593.934	18.9	-2.0	+18.6			+0.0	35.5	46.0		Horiz	Peak	-10.5
108	599.939	18.3	-2.0	+18.7			+0.0	35.0	46.0		Horiz	Peak	-11.0
109	605.944	16.5	-2.0	+18.8			+0.0	33.3	46.0		Horiz	Peak	-12.7
110	611.829	17.7	-2.0	+19.0			+0.0	34.7	46.0		Horiz	Peak	-11.3
111	615.192	29.7	-2.1	+19.0			+0.0	46.6	46.0		Horiz	Peak	+0.6
112	617.834	19.6	-2.1	+19.0			+0.0	36.5	46.0		Horiz	Peak	-9.5
113	619.636	20.4	-2.1	+19.0			+0.0	37.3	46.0		Horiz	Peak	-8.7
114	623.839	17.7	-2.1	+19.1			+0.0	34.7	46.0		Horiz	Peak	-11.3
115	629.844	17.2	-2.1	+19.3			+0.0	34.4	46.0		Horiz	Peak	-11.6
116	633.447	47.2	-2.1	+19.4			+0.0	64.5	46.0		Horiz	Peak	+18.5
117	634.288	44.1	-2.1	+19.4			+0.0	61.4	46.0		Horiz	Peak	+15.4
118	635.249	38.9	-2.1	+19.4			+0.0	56.2	46.0		Horiz	Peak	+10.2
119	636.089	45.3	-2.1	+19.4			+0.0	62.6	46.0		Horiz	Peak	+16.6
120	644.136	21.9	-2.1	+19.3			+0.0	39.1	46.0		Horiz	Peak	-6.9
121	676.323	19.3	-2.3	+19.6			+0.0	36.6	46.0		Horiz	Peak	-9.4
122	680.046	38.6	-2.3	+19.6			+0.0	55.9	46.0		Horiz	Peak	+9.9
123	683.289	40.1	-2.3	+19.6			+0.0	57.4	46.0		Horiz	Peak	+11.4
124	685.450	35.9	-2.3	+19.6			+0.0	53.2	46.0		Horiz	Peak	+7.2
125	692.776	21.3	-2.2	+19.4			+0.0	38.5	46.0		Horiz	Peak	-7.5
126	697.220	19.0	-2.2	+19.5			+0.0	36.3	46.0		Horiz	Peak	-9.7
127	701.904	16.7	-2.2	+19.7			+0.0	34.2	46.0		Horiz	Peak	-11.8
128	708.630	20.7	-2.2	+19.9			+0.0	38.4	46.0		Horiz	Peak	-7.6
129	716.316	43.7	-2.3	+20.0			+0.0	61.4	46.0		Horiz	Peak	+15.4
130	717.757	44.5	-2.3	+20.0			+0.0	62.2	46.0		Horiz	Peak	+16.2
131	720.399	45.7	-2.3	+20.1			+0.0	63.5	46.0		Horiz	Peak	+17.5
132	721.480	37.4	-2.3	+20.2			+0.0	55.3	46.0		Horiz	Peak	+9.3
133	733.370	16.7	-2.3	+20.3			+0.0	34.7	46.0		Horiz	Peak	-11.3
134	740.816	15.9	-2.3	+20.6			+0.0	34.2	46.0		Horiz	Peak	-11.8
135	773.003	16.5	-2.4	+20.9			+0.0	35.0	46.0		Horiz	Peak	-11.0
136	788.977	32.8	-2.4	+21.2			+0.0	51.6	46.0		Horiz	Peak	+5.6
137	790.778	17.6	-2.4	+21.2			+0.0	36.4	46.0		Horiz	Peak	-9.6
138	792.580	18.8	-2.4	+21.3			+0.0	37.7	46.0		Horiz	Peak	-8.3
139	793.540	28.2	-2.4	+21.3			+0.0	47.1	46.0		Horiz	Peak	+1.1
140	799.906	17.2	-2.4	+21.0			+0.0	35.8	46.0		Horiz	Peak	-10.2
141	837.497	16.1	-2.5	+21.3			+0.0	34.9	46.0		Horiz	Peak	-11.1
142	839.419	16.7	-2.5	+21.3			+0.0	35.5	46.0		Horiz	Peak	-10.5
143	842.181	15.9	-2.5	+21.4			+0.0	34.8	46.0		Horiz	Peak	-11.2
144	843.262	17.8	-2.5	+21.4			+0.0	36.7	46.0		Horiz	Peak	-9.3
145	854.071	52.7	-2.6	+21.6			+0.0	71.7	46.0		Horiz	Peak	+25.7
146	854.911	27.9	-2.6	+21.6			+0.0	46.9	46.0		Horiz	Peak	+0.9
147	855.872	41.1	-2.6	+21.6			+0.0	60.1	46.0		Horiz	Peak	+14.1
148	856.833	39.3	-2.6	+21.6			+0.0	58.3	46.0		Horiz	Peak	+12.3
149	857.193	59.8	-2.6	+21.6			+0.0	78.8	46.0		Horiz	Peak	+32.8
150	857.914	41.3	-2.6	+21.7			+0.0	60.4	46.0		Horiz	Peak	+14.4
151	858.394	44.2	-2.6	+21.7			+0.0	63.3	46.0		Horiz	Peak	+17.3
152	859.365	42.3	-2.6	+21.7			+0.0	61.4	46.0		Horiz	Peak	+15.4
153	860.196	66.5	-2.6	+21.7			+0.0	85.6	46.0		Horiz	Peak	+39.6
154	861.277	44.5	-2.6	+21.7			+0.0	63.6	46.0		Horiz	Peak	+17.6
155	862.238	58.2	-2.6	+21.7			+0.0	77.3	46.0		Horiz	Peak	+31.3
156	862.958	29.3	-2.6	+21.7			+0.0	48.4	46.0		Horiz	Peak	+2.4
157	863.919	36.4	-2.6	+21.7			+0.0	55.5	46.0		Horiz	Peak	+9.5
158	865.120	21.2	-2.6	+21.7			+0.0	40.3	46.0		Horiz	Peak	-5.7
159	866.201	19.0	-2.6	+21.7			+0.0	38.1	46.0		Horiz	Peak	-7.9
160	866.921	25.9	-2.6	+21.7			+0.0	45.0	46.0		Horiz	Peak	-1.0
161	868.122	55.3	-2.6	+21.8			+0.0	74.5	46.0		Horiz	Peak	+28.5

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#	Freq MHz	Rdng dB μ V	T1	T2		Dist	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
162	868.603	35.2	-2.6	+21.8		+0.0	54.4	46.0		Horiz	Peak	+8.4
163	871.485	44.6	-2.6	+21.8		+0.0	63.8	46.0		Horiz	Peak	+17.8
164	872.806	45.1	-2.6	+21.9		+0.0	64.4	46.0		Horiz	Peak	+18.4
165	873.647	46.0	-2.6	+21.9		+0.0	65.3	46.0		Horiz	Peak	+19.3
166	874.488	45.5	-2.6	+21.9		+0.0	64.8	46.0		Horiz	Peak	+18.8
167	875.328	46.3	-2.6	+21.9		+0.0	65.6	46.0		Horiz	Peak	+19.6
168	876.289	45.7	-2.6	+21.9		+0.0	65.0	46.0		Horiz	Peak	+19.0
169	878.571	45.8	-2.6	+22.0		+0.0	65.2	46.0		Horiz	Peak	+19.2
170	880.253	46.9	-2.6	+22.0		+0.0	66.3	46.0		Horiz	Peak	+20.3
171	880.733	60.4	-2.6	+22.0		+0.0	79.8	46.0		Horiz	Peak	+33.8
172	881.814	54.3	-2.6	+22.0		+0.0	73.7	46.0		Horiz	Peak	+27.7
173	884.816	58.7	-2.6	+21.9		+0.0	78.0	46.0		Horiz	Peak	+32.0
174	885.897	69.3	-2.6	+21.9		+0.0	88.6	46.0		Horiz	Peak	+42.6
175	886.498	44.7	-2.6	+21.9		+0.0	64.0	46.0		Horiz	Peak	+18.0
176	886.978	41.8	-2.6	+21.9		+0.0	61.1	46.0		Horiz	Peak	+15.1
177	888.419	70.6	-2.6	+22.0		+0.0	90.0	46.0		Horiz	Peak	+44.0
178	889.500	38.7	-2.6	+22.0		+0.0	58.1	46.0		Horiz	Peak	+12.1
179	891.542	44.1	-2.6	+22.0		+0.0	63.5	46.0		Horiz	Peak	+17.5
180	892.142	45.5	-2.6	+22.0		+0.0	64.9	46.0		Horiz	Peak	+18.9
181	892.863	70.2	-2.6	+22.1		+0.0	89.7	46.0		Horiz	Peak	+43.7
182	893.464	51.6	-2.6	+22.1		+0.0	71.1	46.0		Horiz	Peak	+25.1
183	901.750	15.8	-2.6	+22.2		+0.0	35.4	46.0		Horiz	Peak	-10.6
184	909.797	17.6	-2.6	+22.2		+0.0	37.2	46.0		Horiz	Peak	-8.8
185	910.278	19.0	-2.6	+22.2		+0.0	38.6	46.0		Horiz	Peak	-7.4
186	910.638	19.6	-2.6	+22.2		+0.0	39.2	46.0		Horiz	Peak	-6.8
187	918.925	18.1	-2.6	+22.4		+0.0	37.9	46.0		Horiz	Peak	-8.1
188	919.886	21.8	-2.6	+22.4		+0.0	41.6	46.0		Horiz	Peak	-4.4
189	921.807	18.5	-2.6	+22.4		+0.0	38.3	46.0		Horiz	Peak	-7.7
190	923.489	17.8	-2.6	+22.5		+0.0	37.7	46.0		Horiz	Peak	-8.3
191	924.449	18.3	-2.6	+22.5		+0.0	38.2	46.0		Horiz	Peak	-7.8
192	929.133	26.2	-2.6	+22.6		+0.0	46.2	46.0		Horiz	Peak	+0.2
193	934.778	16.9	-2.6	+22.7		+0.0	37.0	46.0		Horiz	Peak	-9.0
194	935.859	28.1	-2.6	+22.7		+0.0	48.2	46.0		Horiz	Peak	+2.2
195	936.700	18.6	-2.6	+22.7		+0.0	38.7	46.0		Horiz	Peak	-7.3
196	938.820	59.6	-2.5	+22.8		+0.0	79.9	46.0		Horiz	Peak	+33.9
197	939.321	40.4	-2.5	+22.8		+0.0	60.7	46.0		Horiz	Peak	+14.7
198	941.262	17.4	-2.5	+22.8		+0.0	37.7	46.0		Horiz	Peak	-8.3
199	952.594	16.9	-2.5	+22.5		+0.0	36.9	46.0		Horiz	Peak	-9.1
200	959.982	17.6	-2.5	+22.6		+0.0	37.7	46.0		Horiz	Peak	-8.3

Wyle Laboratories Date: 7/1/2009 Time: 10:37:36 AM UNISYN WO#: T56285
FCC Class B RADIATED Test Distance: 3 meters Sequence#: 3
Horizontal Active





Wyle Laboratories

Customer: UNISYN
 Specification: FCC Class B RADIATED

Work Order #:	T56285	Date:	Wed Jul-01-2009
Test Type:	Radiated Scan	Time:	1:50:01 PM
Equipment:	Voting Device	Sequence:	4
Manufacturer:	UNISYN	Tested By:	J. Smith <i>JSmith 7-1-09</i>
Model:	Open Elect Voting Optical		
S/N:	UNI000004		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model#	S/N
*Voting Device	UNISYN	Open Elect Voting Optical	UNI000004
Interface	UNISYN	Open Elect Voting Interface	UNI150006
UPS	Entrust	ETR1500	0900268
UPS	Entrust	ETR1500	0900407

Support Devices:

Function	Manufacturer	Model#	S/N
None			

Test Conditions / Notes:

Horizontal Ambient

Transducer Legend:

T1=Cable Wyle# 110111	T2=Wyle #114415 3M Horz
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Measurement Data:

#	Freq MHz	Rdng dB μ V	Readings listed by frequency.			Dist	Corr dB μ V/m	Spec dB μ V/m	Test Distance: 3 meters		
			T1	T2					Polar	Type	Margin
1	30.333	13.8	-0.4	+20.6		+0.0	34.0	40.0		Horiz	Peak -6.0
2	45.970	17.7	-0.6	+14.6		+0.0	31.7	40.0		Horiz	Peak -8.3
3	49.962	18.8	-0.6	+13.5		+0.0	31.7	40.0		Horiz	Peak -8.3
4	69.991	18.7	-0.7	+8.7		+0.0	26.7	40.0		Horiz	Peak -13.3
5	87.956	44.9	-0.8	+7.2		+0.0	51.3	40.0		Horiz	Peak +11.3
6	88.489	31.5	-0.8	+7.3		+0.0	38.0	43.5		Horiz	Peak -5.5
7	89.287	62.3	-0.8	+7.3		+0.0	68.8	43.5		Horiz	Peak +25.3
8	90.086	57.9	-0.8	+7.4		+0.0	64.5	43.5		Horiz	Peak +21.0
9	90.884	62.1	-0.8	+7.6		+0.0	68.9	43.5		Horiz	Peak +25.4
10	91.683	53.4	-0.8	+7.7		+0.0	60.3	43.5		Horiz	Peak +16.8
11	92.548	29.7	-0.7	+7.9		+0.0	36.9	43.5		Horiz	Peak -6.6
12	93.213	56.5	-0.7	+8.0		+0.0	63.8	43.5		Horiz	Peak +20.3
13	94.078	41.5	-0.7	+8.1		+0.0	48.9	43.5		Horiz	Peak +5.4
14	95.076	56.5	-0.7	+8.3		+0.0	64.1	43.5		Horiz	Peak +20.6
15	95.941	32.7	-0.7	+8.4		+0.0	40.4	43.5		Horiz	Peak -3.1
16	96.860	66.9	-0.7	+8.6		+0.0	74.8	43.5		Horiz	Peak +31.3
17	97.581	30.8	-0.8	+8.7		+0.0	38.7	43.5		Horiz	Peak -4.8
18	98.181	25.7	-0.8	+8.7		+0.0	33.6	43.5		Horiz	Peak -9.9
19	99.022	38.1	-0.8	+8.9		+0.0	46.2	43.5		Horiz	Peak +2.7
20	100.223	49.8	-0.8	+9.0		+0.0	58.0	43.5		Horiz	Peak +14.5
21	102.025	63.6	-0.8	+9.1		+0.0	71.9	43.5		Horiz	Peak +28.4
22	103.466	57.7	-0.8	+9.2		+0.0	66.1	43.5		Horiz	Peak +22.6
23	104.186	66.6	-0.8	+9.3		+0.0	75.1	43.5		Horiz	Peak +31.6
24	106.108	41.9	-0.9	+9.3		+0.0	50.3	43.5		Horiz	Peak +6.8
25	106.348	36.2	-0.9	+9.3		+0.0	44.6	43.5		Horiz	Peak +1.1
26	107.189	37.6	-0.9	+9.3		+0.0	46.0	43.5		Horiz	Peak +2.5
27	117.998	23.9	-0.9	+9.3		+0.0	32.3	43.5		Horiz	Peak -11.2
28	118.719	18.9	-0.9	+9.3		+0.0	27.3	43.5		Horiz	Peak -16.2
29	121.121	22.7	-0.9	+9.0		+0.0	30.8	43.5		Horiz	Peak -12.7
30	124.123	17.7	-0.9	+8.6		+0.0	25.4	43.5		Horiz	Peak -18.1
31	126.405	25.4	-0.9	+8.4		+0.0	32.9	43.5		Horiz	Peak -10.6
32	162.435	41.2	-1.0	+8.8		+0.0	49.0	43.5		Horiz	Peak +5.5
33	173.724	41.1	-1.1	+9.1		+0.0	49.1	43.5		Horiz	Peak +5.6
34	198.585	19.1	-1.2	+10.3		+0.0	28.2	43.5		Horiz	Peak -15.3
35	199.306	41.9	-1.2	+10.3		+0.0	51.0	43.5		Horiz	Peak +7.5

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Wyle Report No. T56285-01

Wyle Laboratories

#	Freq MHz	Rdng dB μ V	T1	T2		Dist	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
36	199.906	18.8	-1.2	+10.3		+0.0	27.9	43.5		Horiz	Peak	-15.6
37	202.909	20.2	-1.2	+10.3		+0.0	29.3	43.5		Horiz	Peak	-14.2
38	203.869	35.2	-1.2	+10.3		+0.0	44.3	43.5		Horiz	Peak	+0.8
39	234.975	14.8	-1.3	+11.0		+0.0	24.5	46.0		Horiz	Peak	-21.5
40	265.721	14.7	-1.3	+12.5		+0.0	25.9	46.0		Horiz	Peak	-20.1
41	267.763	14.4	-1.3	+12.4		+0.0	25.5	46.0		Horiz	Peak	-20.5
42	276.410	14.7	-1.4	+12.3		+0.0	25.6	46.0		Horiz	Peak	-20.4
43	281.574	14.2	-1.4	+12.5		+0.0	25.3	46.0		Horiz	Peak	-20.7
44	286.258	15.4	-1.4	+12.7		+0.0	26.7	46.0		Horiz	Peak	-19.3
45	299.829	14.8	-1.5	+13.4		+0.0	26.7	46.0		Horiz	Peak	-19.3
46	300.550	18.9	-1.5	+13.4		+0.0	30.8	46.0		Horiz	Peak	-15.2
47	302.592	14.7	-1.5	+13.5		+0.0	26.7	46.0		Horiz	Peak	-19.3
48	310.158	14.6	-1.5	+13.7		+0.0	26.8	46.0		Horiz	Peak	-19.2
49	310.758	14.5	-1.5	+13.7		+0.0	26.7	46.0		Horiz	Peak	-19.3
50	314.842	14.6	-1.5	+13.9		+0.0	27.0	46.0		Horiz	Peak	-19.0
51	316.763	14.6	-1.5	+13.9		+0.0	27.0	46.0		Horiz	Peak	-19.0
52	327.332	15.0	-1.5	+13.8		+0.0	27.3	46.0		Horiz	Peak	-18.7
53	332.857	14.6	-1.5	+14.0		+0.0	27.1	46.0		Horiz	Peak	-18.9
54	362.663	15.2	-1.6	+15.0		+0.0	28.6	46.0		Horiz	Peak	-17.4
55	388.867	14.7	-1.6	+15.2		+0.0	28.3	46.0		Horiz	Peak	-17.7
56	398.843	14.5	-1.6	+15.6		+0.0	28.5	46.0		Horiz	Peak	-17.5
57	406.777	24.9	-1.6	+15.6		+0.0	38.9	46.0		Horiz	Peak	-7.1
58	409.301	36.0	-1.6	+15.7		+0.0	50.1	46.0		Horiz	Peak	+4.1
59	419.157	21.5	-1.7	+16.4		+0.0	36.2	46.0		Horiz	Peak	-9.8
60	419.758	15.5	-1.7	+16.5		+0.0	30.3	46.0		Horiz	Peak	-15.7
61	451.010	17.3	-1.8	+16.3		+0.0	31.8	46.0		Horiz	Peak	-14.2
62	452.573	25.7	-1.8	+16.4		+0.0	40.3	46.0		Horiz	Peak	-5.7
63	453.534	20.5	-1.8	+16.4		+0.0	35.1	46.0		Horiz	Peak	-10.9
64	460.383	19.5	-1.8	+16.5		+0.0	34.2	46.0		Horiz	Peak	-11.8
65	460.863	22.4	-1.8	+16.5		+0.0	37.1	46.0		Horiz	Peak	-8.9
66	462.785	32.9	-1.8	+16.6		+0.0	47.7	46.0		Horiz	Peak	+1.7
67	464.106	23.1	-1.8	+16.6		+0.0	37.9	46.0		Horiz	Peak	-8.1
68	464.827	21.9	-1.8	+16.6		+0.0	36.7	46.0		Horiz	Peak	-9.3
69	470.231	42.0	-1.8	+16.7		+0.0	56.9	46.0		Horiz	Peak	+10.9
70	472.153	41.7	-1.8	+16.7		+0.0	56.6	46.0		Horiz	Peak	+10.6
71	501.577	47.8	-1.9	+17.2		+0.0	63.1	46.0		Horiz	Peak	+17.1
72	504.940	47.4	-1.9	+17.1		+0.0	62.6	46.0		Horiz	Peak	+16.6
73	530.281	45.5	-1.9	+17.7		+0.0	61.3	46.0		Horiz	Peak	+15.3
74	532.203	53.8	-1.9	+17.7		+0.0	69.6	46.0		Horiz	Peak	+23.6
75	534.365	54.6	-1.9	+17.8		+0.0	70.5	46.0		Horiz	Peak	+24.5
76	579.162	55.7	-2.1	+18.4		+0.0	72.0	46.0		Horiz	Peak	+26.0
77	581.324	54.6	-2.1	+18.4		+0.0	70.9	46.0		Horiz	Peak	+24.9
78	582.525	54.5	-2.1	+18.4		+0.0	70.8	46.0		Horiz	Peak	+24.8
79	585.167	23.0	-2.1	+18.4		+0.0	39.3	46.0		Horiz	Peak	-6.7
80	615.072	23.9	-2.1	+19.0		+0.0	40.8	46.0		Horiz	Peak	-5.2
81	619.636	20.5	-2.1	+19.0		+0.0	37.4	46.0		Horiz	Peak	-8.6
82	632.126	43.5	-2.1	+19.3		+0.0	60.7	46.0		Horiz	Peak	+14.7
83	633.447	42.0	-2.1	+19.4		+0.0	59.3	46.0		Horiz	Peak	+13.3
84	635.849	41.0	-2.1	+19.4		+0.0	58.3	46.0		Horiz	Peak	+12.3
85	680.046	32.1	-2.3	+19.6		+0.0	49.4	46.0		Horiz	Peak	+3.4
86	681.007	29.7	-2.3	+19.6		+0.0	47.0	46.0		Horiz	Peak	+1.0
87	684.129	36.5	-2.3	+19.6		+0.0	53.8	46.0		Horiz	Peak	+7.8
88	692.897	21.5	-2.2	+19.4		+0.0	38.7	46.0		Horiz	Peak	-7.3
89	697.100	17.7	-2.2	+19.5		+0.0	35.0	46.0		Horiz	Peak	-11.0
90	712.713	15.4	-2.3	+19.9		+0.0	33.0	46.0		Horiz	Peak	-13.0
91	716.316	45.9	-2.3	+20.0		+0.0	63.6	46.0		Horiz	Peak	+17.6
92	717.277	45.0	-2.3	+20.0		+0.0	62.7	46.0		Horiz	Peak	+16.7
93	720.279	43.9	-2.3	+20.1		+0.0	61.7	46.0		Horiz	Peak	+15.7
94	727.005	16.1	-2.3	+20.3		+0.0	34.1	46.0		Horiz	Peak	-11.9
95	732.049	14.9	-2.3	+20.3		+0.0	32.9	46.0		Horiz	Peak	-13.1
96	748.263	15.0	-2.3	+20.7		+0.0	33.4	46.0		Horiz	Peak	-12.6
97	754.388	14.5	-2.3	+20.9		+0.0	33.1	46.0		Horiz	Peak	-12.9
98	783.692	14.9	-2.4	+21.1		+0.0	33.6	46.0		Horiz	Peak	-12.4

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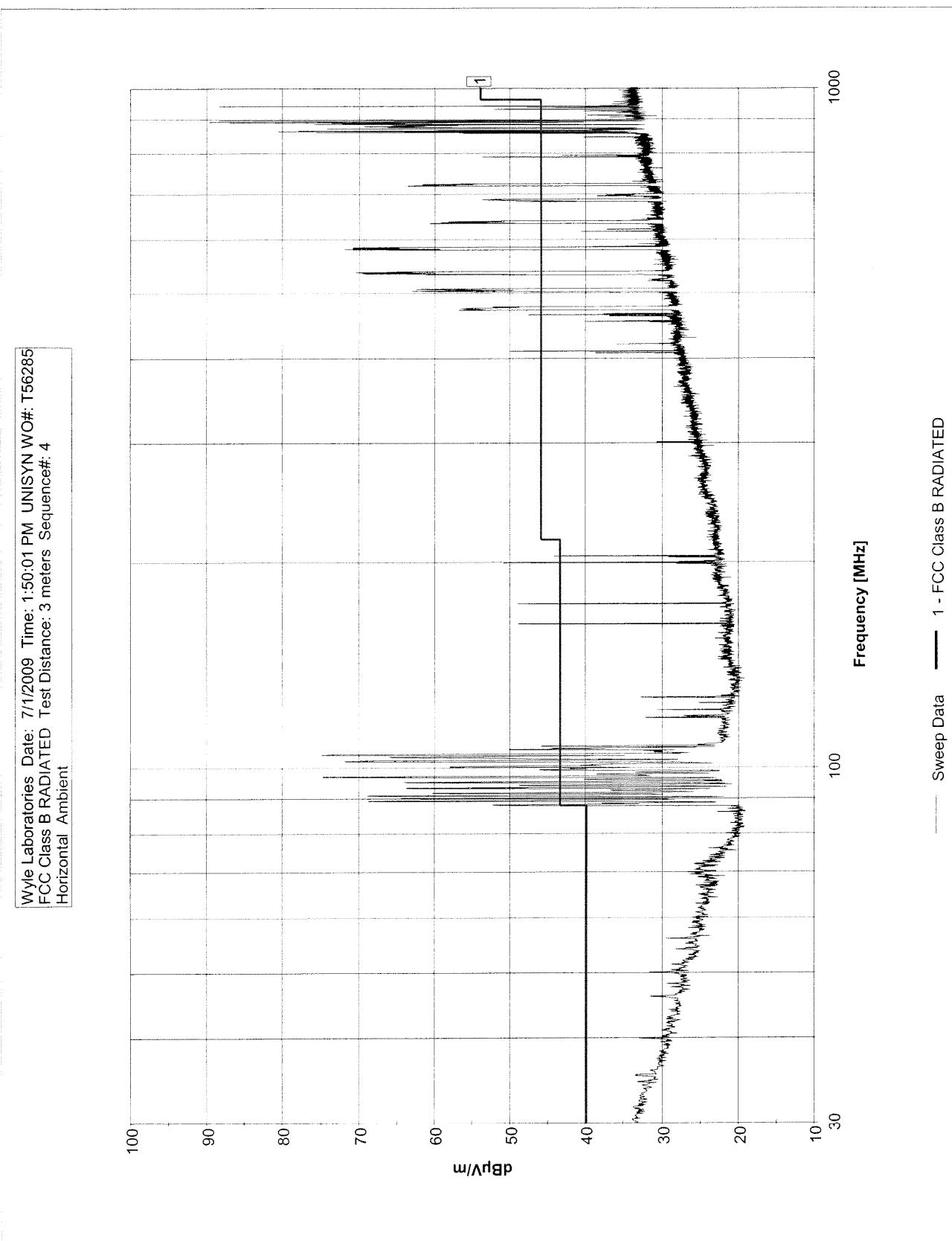
Wyle Laboratories

#	Freq MHz	Rdng dB μ V	T1	T2		Dist	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
99	788.136	16.3	-2.4	+21.2		+0.0	35.1	46.0		Horiz	Peak	-10.9
100	788.977	35.0	-2.4	+21.2		+0.0	53.8	46.0		Horiz	Peak	+7.8
101	792.580	17.2	-2.4	+21.3		+0.0	36.1	46.0		Horiz	Peak	-9.9
102	793.540	24.4	-2.4	+21.3		+0.0	43.3	46.0		Horiz	Peak	-2.7
103	843.862	21.5	-2.6	+21.5		+0.0	40.4	46.0		Horiz	Peak	-5.6
104	854.311	37.3	-2.6	+21.6		+0.0	56.3	46.0		Horiz	Peak	+10.3
105	855.032	36.5	-2.6	+21.6		+0.0	55.5	46.0		Horiz	Peak	+9.5
106	855.872	37.9	-2.6	+21.6		+0.0	56.9	46.0		Horiz	Peak	+10.9
107	856.833	38.0	-2.6	+21.6		+0.0	57.0	46.0		Horiz	Peak	+11.0
108	857.193	56.7	-2.6	+21.6		+0.0	75.7	46.0		Horiz	Peak	+29.7
109	857.914	39.3	-2.6	+21.7		+0.0	58.4	46.0		Horiz	Peak	+12.4
110	858.394	45.0	-2.6	+21.7		+0.0	64.1	46.0		Horiz	Peak	+18.1
111	859.355	41.1	-2.6	+21.7		+0.0	60.2	46.0		Horiz	Peak	+14.2
112	859.956	54.2	-2.6	+21.7		+0.0	73.3	46.0		Horiz	Peak	+27.3
113	860.196	61.6	-2.6	+21.7		+0.0	80.7	46.0		Horiz	Peak	+34.7
114	860.676	45.5	-2.6	+21.7		+0.0	64.6	46.0		Horiz	Peak	+18.6
115	861.277	46.3	-2.6	+21.7		+0.0	65.4	46.0		Horiz	Peak	+19.4
116	862.238	58.9	-2.6	+21.7		+0.0	78.0	46.0		Horiz	Peak	+32.0
117	863.318	29.7	-2.6	+21.7		+0.0	48.8	46.0		Horiz	Peak	+2.8
118	863.919	40.6	-2.6	+21.7		+0.0	59.7	46.0		Horiz	Peak	+13.7
119	865.120	20.2	-2.6	+21.7		+0.0	39.3	46.0		Horiz	Peak	-6.7
120	866.201	20.6	-2.6	+21.7		+0.0	39.7	46.0		Horiz	Peak	-6.3
121	866.921	19.1	-2.6	+21.7		+0.0	38.2	46.0		Horiz	Peak	-7.8
122	867.402	19.6	-2.6	+21.7		+0.0	38.7	46.0		Horiz	Peak	-7.3
123	868.122	55.1	-2.6	+21.8		+0.0	74.3	46.0		Horiz	Peak	+28.3
124	868.603	29.8	-2.6	+21.8		+0.0	49.0	46.0		Horiz	Peak	+3.0
125	872.086	47.0	-2.6	+21.8		+0.0	66.2	46.0		Horiz	Peak	+20.2
126	873.647	47.5	-2.6	+21.9		+0.0	66.8	46.0		Horiz	Peak	+20.8
127	874.608	50.1	-2.6	+21.9		+0.0	69.4	46.0		Horiz	Peak	+23.4
128	875.088	46.2	-2.6	+21.9		+0.0	65.5	46.0		Horiz	Peak	+19.5
129	875.929	46.6	-2.6	+21.9		+0.0	65.9	46.0		Horiz	Peak	+19.9
130	878.451	46.3	-2.6	+22.0		+0.0	65.7	46.0		Horiz	Peak	+19.7
131	880.733	56.5	-2.6	+22.0		+0.0	75.9	46.0		Horiz	Peak	+29.9
132	882.174	52.8	-2.6	+22.0		+0.0	72.2	46.0		Horiz	Peak	+26.2
133	884.096	54.4	-2.6	+21.9		+0.0	73.7	46.0		Horiz	Peak	+27.7
134	885.897	67.8	-2.6	+21.9		+0.0	87.1	46.0		Horiz	Peak	+41.1
135	886.378	40.2	-2.6	+21.9		+0.0	59.5	46.0		Horiz	Peak	+13.5
136	888.419	70.4	-2.6	+22.0		+0.0	89.8	46.0		Horiz	Peak	+43.8
137	889.620	41.6	-2.6	+22.0		+0.0	61.0	46.0		Horiz	Peak	+15.0
138	891.422	46.1	-2.6	+22.0		+0.0	65.5	46.0		Horiz	Peak	+19.5
139	892.142	44.2	-2.6	+22.0		+0.0	63.6	46.0		Horiz	Peak	+17.6
140	892.863	69.0	-2.6	+22.1		+0.0	88.5	46.0		Horiz	Peak	+42.5
141	893.464	49.6	-2.6	+22.1		+0.0	69.1	46.0		Horiz	Peak	+23.1
142	905.233	17.5	-2.6	+22.2		+0.0	37.1	46.0		Horiz	Peak	-8.9
143	910.278	20.4	-2.6	+22.2		+0.0	40.0	46.0		Horiz	Peak	-6.0
144	923.609	19.9	-2.6	+22.5		+0.0	39.8	46.0		Horiz	Peak	-6.2
145	924.089	20.6	-2.6	+22.5		+0.0	40.5	46.0		Horiz	Peak	-5.5
146	924.449	19.7	-2.6	+22.5		+0.0	39.6	46.0		Horiz	Peak	-6.4
147	929.133	32.2	-2.6	+22.6		+0.0	52.2	46.0		Horiz	Peak	+6.2
148	934.778	24.0	-2.6	+22.7		+0.0	44.1	46.0		Horiz	Peak	-1.9
149	935.859	27.8	-2.6	+22.7		+0.0	47.9	46.0		Horiz	Peak	+1.9
150	936.579	20.5	-2.6	+22.7		+0.0	40.6	46.0		Horiz	Peak	-5.4
151	938.820	68.2	-2.5	+22.8		+0.0	88.5	46.0		Horiz	Peak	+42.5
152	939.258	33.5	-2.5	+22.8		+0.0	53.8	46.0		Horiz	Peak	+7.8
153	939.384	31.3	-2.5	+22.8		+0.0	51.6	46.0		Horiz	Peak	+5.6
154	941.262	18.0	-2.5	+22.8		+0.0	38.3	46.0		Horiz	Peak	-7.7
155	944.893	16.5	-2.5	+22.7		+0.0	36.7	46.0		Horiz	Peak	-9.3
156	946.584	14.4	-2.5	+22.7		+0.0	34.6	46.0		Horiz	Peak	-11.4
157	947.398	15.4	-2.5	+22.7		+0.0	35.6	46.0		Horiz	Peak	-10.4
158	949.839	15.0	-2.5	+22.6		+0.0	35.1	46.0		Horiz	Peak	-10.9
159	950.340	15.0	-2.5	+22.6		+0.0	35.1	46.0		Horiz	Peak	-10.9
160	951.342	14.4	-2.5	+22.6		+0.0	34.5	46.0		Horiz	Peak	-11.5
161	952.469	16.4	-2.5	+22.6		+0.0	36.5	46.0		Horiz	Peak	-9.5

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Wyle Laboratories

#	Freq MHz	Rdng dB μ V	T1	T2			Dist dB μ V/m	Corr dB μ V/m	Spec dB μ V/m		Polar	Type	Margin
162	990.724	15.1	-2.6	+23.0			+0.0	35.5	54.0		Horiz	Peak	-18.5
163	990.849	15.5	-2.6	+23.0			+0.0	35.9	54.0		Horiz	Peak	-18.1



**ELECTROMAGNETIC RADIATION TEST
CONDUCTED EMISSIONS TEST DATA**



Wyle Laboratories

Customer: UNISYN
 Specification: FCC Class B Conducted Ave

Work Order #:	T56285	Date:	Wed Jul-01-2009
Test Type:	Conducted Emissions	Time:	13:13:12
Equipment:	Voting Device	Sequence:	1
Manufacturer:	UNISYN	Tested By:	J. Smith <i>J. Smith 7-1-09</i>
Model:	Open Elect Voting Optical		
S/N:	UNI000004		
Voltage:	120V 60Hz		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model#	S/N
*Voting Device	UNISYN	Open Elect Voting Optical	UNI000004
Interface	UNISYN	Open Elect Voting Interface	UNI150006
UPS	Entrust	ETR1500	0900407
UPS	Entrust	ETR1500	0900268

Support Devices:

Function	Manufacturer	Model#	S/N
None			

Test Conditions / Notes:

Line Active

Transducer Legend:

T1=LISN Wyle #110238 L

#	Freq	Rdng dB μ V	T1	Readings listed by frequency.				Test Lead: Black			
				Corr dB μ V	Spec dB μ V	Polar	Type	Margin			
1	151.454k	60.1	+1.5	61.6	55.9	Black	Peak	+5.7			
2	154.840k	24.8	+1.5	26.3	55.7	Black	Ave	-29.4			
3	157.060k	54.9	+1.4	56.2	55.6	Black	QP	+0.6			
4	163.160k	53.0	+1.4	54.4	55.3	Black	QP	-0.9			
5	164.544k	61.9	+1.4	63.3	55.2	Black	Peak	+8.1			
6	172.543k	55.8	+1.2	57.0	54.8	Black	Peak	+2.2			
7	186.580k	52.0	+1.0	53.0	54.2	Black	QP	-1.2			
8	190.160k	51.6	+1.0	52.6	54.0	Black	QP	-1.4			
9	191.420k	50.8	+1.0	51.8	54.0	Black	QP	-2.2			
10	192.178k	57.5	+1.0	58.5	53.9	Black	Peak	+4.6			
11	195.086k	56.3	+1.0	57.3	53.8	Black	Peak	+3.5			
12	200.177k	55.8	+1.0	56.8	53.6	Black	Peak	+3.2			
13	201.420k	47.8	+1.0	48.8	53.6	Black	QP	-4.8			
14	205.340k	47.5	+1.0	48.5	53.4	Black	QP	-4.9			
15	211.085k	54.0	+0.9	54.9	53.2	Black	Peak	+1.7			
16	729.160k	34.7	+0.1	34.8	46.0	Black	QP	-11.2			
17	729.578k	51.0	+0.1	51.1	46.0	Black	Peak	+5.1			
18	768.120k	48.6	+0.1	48.7	46.0	Black	Peak	+2.7			
19	770.680k	32.4	+0.1	32.5	46.0	Black	QP	-13.5			



Wyle Laboratories

Customer: UNISYN
 Specification: FCC Class B Conducted Ave

Work Order #:	T56285	Date:	Wed Jul-01-2009
Test Type:	Conducted Emissions	Time:	10:56:02
Equipment:	Voting Device	Sequence:	1
Manufacturer:	UNISYN	Tested By:	J. Smith <i>jsmith 7-1-09</i>
Model:	Open Elect Voting Optical		
S/N:	UNI000004		
Voltage:	120V 60Hz		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model#	S/N
*Voting Device	UNISYN	Open Elect Voting Optical	UNI000004
Interface	UNISYN	Open Elect Voting Interface	UNI150006
UPS	Entrust	ETR1500	0900407
UPS	Entrust	ETR1500	0900268

Support Devices:

Function	Manufacturer	Model#	S/N
None			

Test Conditions / Notes:

Line Active

Transducer Legend:

T1=LISN Wyle #110238 L

Measurement Data:

#	Freq	Rdng dB μ V	T1	Readings listed by frequency.				Test Lead: Black			
				Corr dB μ V	Spec dB μ V		Polar	Type	Margin		
1	151.454k	60.1	+1.5	61.6	55.9		Black	Peak	+5.7		
2	164.544k	61.9	+1.4	63.3	55.2		Black	Peak	+8.1		
3	172.543k	55.8	+1.2	57.0	54.8		Black	Peak	+2.2		
4	192.178k	57.5	+1.0	58.5	53.9		Black	Peak	+4.6		
5	195.086k	56.3	+1.0	57.3	53.8		Black	Peak	+3.5		
6	200.177k	55.8	+1.0	56.8	53.6		Black	Peak	+3.2		
7	211.085k	54.0	+0.9	54.9	53.2		Black	Peak	+1.7		
8	221.993k	50.3	+0.9	51.2	52.7		Black	Peak	-1.5		
9	224.902k	51.6	+0.9	52.5	52.6		Black	Peak	-0.1		
10	237.264k	49.0	+0.8	49.8	52.2		Black	Peak	-2.4		
11	242.354k	49.1	+0.8	49.9	52.0		Black	Peak	-2.1		
12	251.081k	47.5	+0.8	48.3	51.7		Black	Peak	-3.4		
13	256.171k	49.2	+0.8	50.0	51.6		Black	Peak	-1.6		
14	261.989k	49.4	+0.7	50.1	51.4		Black	Peak	-1.3		
15	267.806k	47.4	+0.7	48.1	51.2		Black	Peak	-3.1		
16	272.897k	46.0	+0.7	46.7	51.0		Black	Peak	-4.3		
17	279.442k	46.6	+0.7	47.3	50.8		Black	Peak	-3.5		
18	283.078k	46.9	+0.6	47.5	50.7		Black	Peak	-3.2		
19	288.168k	45.6	+0.6	46.2	50.6		Black	Peak	-4.4		
20	292.531k	43.1	+0.6	43.7	50.5		Black	Peak	-6.8		
21	298.349k	42.9	+0.6	43.5	50.3		Black	Peak	-6.8		
22	303.439k	45.4	+0.6	46.0	50.1		Black	Peak	-4.1		
23	307.075k	45.2	+0.6	45.8	50.0		Black	Peak	-4.2		
24	312.166k	42.5	+0.6	43.1	49.9		Black	Peak	-6.8		
25	315.802k	43.3	+0.5	43.8	49.8		Black	Peak	-6.0		
26	320.165k	44.8	+0.5	45.3	49.7		Black	Peak	-4.4		
27	324.528k	43.5	+0.5	44.0	49.6		Black	Peak	-5.6		
28	328.891k	44.2	+0.5	44.7	49.5		Black	Peak	-4.8		
29	331.800k	42.1	+0.5	42.6	49.4		Black	Peak	-6.8		
30	337.618k	42.5	+0.5	43.0	49.3		Black	Peak	-6.3		
31	342.708k	41.9	+0.5	42.4	49.1		Black	Peak	-6.7		
32	347.071k	43.1	+0.4	43.5	49.0		Black	Peak	-5.5		
33	355.798k	42.0	+0.4	42.4	48.8		Black	Peak	-6.4		
34	360.888k	43.8	+0.4	44.2	48.7		Black	Peak	-4.5		

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Wyle Laboratories

#	Freq	Rdng dB μ V	T1				Corr dB μ V	Spec dB μ V		Polar	Type	Margin
35	362.342k	39.8	+0.4				40.2	48.7		Black	Peak	-8.5
36	363.797k	41.3	+0.4				41.7	48.6		Black	Peak	-6.9
37	368.160k	38.8	+0.4				39.2	48.5		Black	Peak	-9.3
38	371.069k	39.3	+0.4				39.7	48.5		Black	Peak	-8.8
39	375.432k	39.6	+0.4				40.0	48.4		Black	Peak	-8.4
40	383.431k	40.1	+0.3				40.4	48.2		Black	Peak	-7.8
41	386.340k	37.0	+0.3				37.3	48.1		Black	Peak	-10.8
42	399.430k	40.1	+0.3				40.4	47.9		Black	Peak	-7.5
43	403.066k	39.0	+0.3				39.3	47.8		Black	Peak	-8.5
44	404.520k	37.3	+0.3				37.6	47.8		Black	Peak	-10.2
45	408.883k	40.0	+0.3				40.3	47.7		Black	Peak	-7.4
46	411.792k	35.4	+0.3				35.7	47.6		Black	Peak	-11.9
47	419.064k	37.0	+0.3				37.3	47.5		Black	Peak	-10.2
48	425.609k	36.3	+0.3				36.6	47.3		Black	Peak	-10.7
49	429.972k	36.4	+0.3				36.7	47.3		Black	Peak	-10.6
50	434.335k	34.7	+0.3				35.0	47.2		Black	Peak	-12.2
51	443.062k	36.5	+0.3				36.8	47.0		Black	Peak	-10.2
52	445.970k	33.7	+0.3				34.0	46.9		Black	Peak	-12.9
53	453.970k	34.0	+0.3				34.3	46.8		Black	Peak	-12.5
54	458.333k	32.6	+0.3				32.9	46.7		Black	Peak	-13.8
55	463.423k	33.8	+0.3				34.1	46.6		Black	Peak	-12.5
56	472.877k	34.6	+0.3				34.9	46.5		Black	Peak	-11.6
57	477.240k	34.5	+0.3				34.8	46.4		Black	Peak	-11.6
58	483.058k	34.4	+0.3				34.7	46.3		Black	Peak	-11.6
59	491.784k	36.1	+0.2				36.3	46.1		Black	Peak	-9.8
60	502.692k	36.9	+0.2				37.1	46.0		Black	Peak	-8.9
61	507.055k	37.2	+0.2				37.4	46.0		Black	Peak	-8.6
62	510.691k	36.3	+0.2				36.5	46.0		Black	Peak	-9.5
63	515.054k	36.4	+0.2				36.6	46.0		Black	Peak	-9.4
64	520.145k	37.5	+0.2				37.7	46.0		Black	Peak	-8.3
65	522.326k	36.2	+0.2				36.4	46.0		Black	Peak	-9.6
66	531.053k	37.6	+0.2				37.8	46.0		Black	Peak	-8.2
67	534.689k	38.5	+0.2				38.7	46.0		Black	Peak	-7.3
68	539.052k	35.3	+0.2				35.5	46.0		Black	Peak	-10.5
69	544.142k	37.7	+0.2				37.9	46.0		Black	Peak	-8.1
70	550.687k	36.1	+0.2				36.3	46.0		Black	Peak	-9.7
71	553.596k	37.2	+0.2				37.4	46.0		Black	Peak	-8.6
72	560.868k	38.6	+0.2				38.8	46.0		Black	Peak	-7.2
73	564.504k	40.4	+0.2				40.6	46.0		Black	Peak	-5.4
74	567.413k	38.7	+0.2				38.9	46.0		Black	Peak	-7.1
75	573.230k	40.1	+0.2				40.3	46.0		Black	Peak	-5.7
76	576.866k	38.0	+0.2				38.2	46.0		Black	Peak	-7.8
77	581.957k	39.3	+0.2				39.5	46.0		Black	Peak	-6.5
78	586.320k	36.9	+0.2				37.1	46.0		Black	Peak	-8.9
79	590.683k	37.5	+0.2				37.7	46.0		Black	Peak	-8.3
80	595.774k	34.9	+0.2				35.1	46.0		Black	Peak	-10.9
81	600.137k	33.7	+0.2				33.9	46.0		Black	Peak	-12.1
82	605.954k	32.8	+0.2				33.0	46.0		Black	Peak	-13.0
83	611.772k	35.2	+0.2				35.4	46.0		Black	Peak	-10.6
84	618.317k	33.1	+0.2				33.3	46.0		Black	Peak	-12.7
85	623.407k	32.0	+0.2				32.2	46.0		Black	Peak	-13.8
86	626.316k	30.3	+0.2				30.5	46.0		Black	Peak	-15.5
87	632.134k	27.5	+0.2				27.7	46.0		Black	Peak	-18.3
88	635.042k	27.9	+0.2				28.1	46.0		Black	Peak	-17.9
89	638.678k	28.9	+0.2				29.1	46.0		Black	Peak	-16.9
90	656.131k	24.7	+0.2				24.9	46.0		Black	Peak	-21.1
91	661.949k	24.4	+0.2				24.6	46.0		Black	Peak	-21.4
92	684.492k	23.3	+0.2				23.5	46.0		Black	Peak	-22.5
93	729.578k	51.0	+0.1				51.1	46.0		Black	Peak	+5.1
94	768.120k	48.6	+0.1				48.7	46.0		Black	Peak	+2.7
95	784.846k	34.0	+0.1				34.1	46.0		Black	Peak	-11.9
96	799.390k	33.6	+0.1				33.7	46.0		Black	Peak	-12.3
97	816.115k	36.5	+0.1				36.6	46.0		Black	Peak	-9.4

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Wyle Laboratories

#	Freq	Rdng dB μ V	T1				Corr dB μ V	Spec dB μ V		Polar	Type	Margin
98	837.204k	39.8	+0.1				39.9	46.0		Black	Peak	-6.1
99	875.746k	35.6	+0.1				35.7	46.0		Black	Peak	-10.3
100	889.759k	36.2	+0.1				36.3	46.0		Black	Peak	-9.7
101	949.301k	30.6	+0.1				30.7	46.0		Black	Peak	-15.3
102	966.313k	26.6	+0.1				26.7	46.0		Black	Peak	-19.3
103	1.000M	32.1	+0.1				32.2	46.0		Black	Peak	-13.8
104	1.077M	26.4	+0.1				26.5	46.0		Black	Peak	-19.5
105	1.119M	24.6	+0.1				24.7	46.0		Black	Peak	-21.3
106	1.136M	28.8	+0.1				28.9	46.0		Black	Peak	-17.1
107	1.170M	20.5	+0.1				20.6	46.0		Black	Peak	-25.4
108	1.226M	28.6	+0.1				28.7	46.0		Black	Peak	-17.3
109	1.311M	21.7	+0.1				21.8	46.0		Black	Peak	-24.2
110	1.396M	22.5	+0.1				22.6	46.0		Black	Peak	-23.4
111	1.545M	30.7	+0.1				30.8	46.0		Black	Peak	-15.2
112	1.698M	38.0	+0.1				38.1	46.0		Black	Peak	-7.9
113	2.038M	22.5	+0.1				22.6	46.0		Black	Peak	-23.4
114	2.098M	23.4	+0.1				23.5	46.0		Black	Peak	-22.5
115	2.174M	25.8	+0.1				25.9	46.0		Black	Peak	-20.1
116	2.191M	22.8	+0.1				22.9	46.0		Black	Peak	-23.1
117	2.221M	21.3	+0.1				21.4	46.0		Black	Peak	-24.6
118	2.259M	27.2	+0.1				27.3	46.0		Black	Peak	-18.7
119	2.268M	25.1	+0.1				25.2	46.0		Black	Peak	-20.8
120	2.323M	26.5	+0.1				26.6	46.0		Black	Peak	-19.4
121	2.340M	28.3	+0.1				28.4	46.0		Black	Peak	-17.6
122	2.378M	29.0	+0.1				29.1	46.0		Black	Peak	-16.9
123	2.391M	28.2	+0.1				28.3	46.0		Black	Peak	-17.7
124	2.455M	28.8	+0.1				28.9	46.0		Black	Peak	-17.1
125	2.506M	27.5	+0.1				27.6	46.0		Black	Peak	-18.4
126	2.714M	22.7	+0.1				22.8	46.0		Black	Peak	-23.2
127	2.889M	21.3	+0.1				21.4	46.0		Black	Peak	-24.6
128	4.203M	20.8	+0.1				20.9	46.0		Black	Peak	-25.1
129	4.628M	25.4	+0.1				25.5	46.0		Black	Peak	-20.5
130	4.934M	23.0	+0.1				23.1	46.0		Black	Peak	-22.9
131	6.904M	25.0	+0.2				25.2	50.0		Black	Peak	-24.8
132	6.967M	25.7	+0.2				25.9	50.0		Black	Peak	-24.1
133	7.039M	27.2	+0.2				27.4	50.0		Black	Peak	-22.6
134	7.093M	24.6	+0.2				24.8	50.0		Black	Peak	-25.2
135	7.165M	26.6	+0.2				26.8	50.0		Black	Peak	-23.2
136	7.300M	28.3	+0.2				28.5	50.0		Black	Peak	-21.5
137	7.363M	26.1	+0.2				26.3	50.0		Black	Peak	-23.7
138	7.426M	28.4	+0.2				28.6	50.0		Black	Peak	-21.4
139	7.489M	42.8	+0.2				43.0	50.0		Black	Peak	-7.0
140	7.751M	24.6	+0.2				24.8	50.0		Black	Peak	-25.2
141	9.066M	26.1	+0.2				26.3	50.0		Black	Peak	-23.7
142	9.138M	26.8	+0.2				27.0	50.0		Black	Peak	-23.0
143	9.192M	26.2	+0.2				26.4	50.0		Black	Peak	-23.6
144	9.309M	26.7	+0.2				26.9	50.0		Black	Peak	-23.1
145	9.534M	27.0	+0.2				27.2	50.0		Black	Peak	-22.8
146	9.643M	25.1	+0.2				25.3	50.0		Black	Peak	-24.7
147	9.670M	24.8	+0.2				25.0	50.0		Black	Peak	-25.0
148	9.886M	26.2	+0.2				26.4	50.0		Black	Peak	-23.6
149	9.985M	39.6	+0.2				39.8	50.0		Black	Peak	-10.2
150	10.066M	25.2	+0.2				25.4	50.0		Black	Peak	-24.6
151	10.264M	25.8	+0.2				26.0	50.0		Black	Peak	-24.0
152	10.381M	25.0	+0.2				25.2	50.0		Black	Peak	-24.8
153	10.462M	27.1	+0.2				27.3	50.0		Black	Peak	-22.7
154	10.507M	31.5	+0.2				31.7	50.0		Black	Peak	-18.3
155	10.597M	27.7	+0.2				27.9	50.0		Black	Peak	-22.1
156	10.796M	27.8	+0.3				28.1	50.0		Black	Peak	-21.9
157	11.030M	26.6	+0.3				26.9	50.0		Black	Peak	-23.1
158	11.228M	33.7	+0.3				34.0	50.0		Black	Peak	-16.0
159	11.309M	42.1	+0.3				42.4	50.0		Black	Peak	-7.6
160	11.381M	28.4	+0.3				28.7	50.0		Black	Peak	-21.3

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Wyle Laboratories

#	Freq	Rdng dB μ V	T1				Corr dB μ V	Spec dB μ V		Polar	Type	Margin
161	11.444M	26.4	+0.3				26.7	50.0		Black	Peak	-23.3
162	11.561M	28.0	+0.3				28.3	50.0		Black	Peak	-21.7
163	11.688M	35.0	+0.3				35.3	50.0		Black	Peak	-14.7
164	11.769M	31.7	+0.3				32.0	50.0		Black	Peak	-18.0
165	11.841M	40.7	+0.3				41.0	50.0		Black	Peak	-9.0
166	11.877M	41.0	+0.3				41.3	50.0		Black	Peak	-8.7
167	11.940M	45.8	+0.3				46.1	50.0		Black	Peak	-3.9
168	12.039M	32.0	+0.3				32.3	50.0		Black	Peak	-17.7
169	12.075M	31.7	+0.3				32.0	50.0		Black	Peak	-18.0
170	12.165M	25.6	+0.3				25.9	50.0		Black	Peak	-24.1
171	12.219M	24.9	+0.3				25.2	50.0		Black	Peak	-24.8
172	12.805M	25.7	+0.4				26.1	50.0		Black	Peak	-23.9
173	13.318M	24.4	+0.4				24.8	50.0		Black	Peak	-25.2
174	13.471M	25.4	+0.4				25.8	50.0		Black	Peak	-24.2
175	13.588M	30.9	+0.5				31.4	50.0		Black	Peak	-18.6
176	13.715M	36.8	+0.5				37.3	50.0		Black	Peak	-12.7
177	13.760M	38.6	+0.5				39.1	50.0		Black	Peak	-10.9
178	13.886M	25.4	+0.5				25.9	50.0		Black	Peak	-24.1
179	13.994M	24.7	+0.5				25.2	50.0		Black	Peak	-24.8
180	14.021M	24.3	+0.5				24.8	50.0		Black	Peak	-25.2
181	14.129M	25.0	+0.6				25.6	50.0		Black	Peak	-24.4
182	14.165M	24.5	+0.6				25.1	50.0		Black	Peak	-24.9
183	14.354M	24.2	+0.6				24.8	50.0		Black	Peak	-25.2
184	15.138M	32.9	+0.6				33.5	50.0		Black	Peak	-16.5
185	15.219M	35.2	+0.6				35.8	50.0		Black	Peak	-14.2
186	16.183M	26.2	+0.6				26.8	50.0		Black	Peak	-23.2
187	17.805M	32.3	+0.6				32.9	50.0		Black	Peak	-17.1
188	21.210M	24.6	+0.9				25.5	50.0		Black	Peak	-24.5
189	21.291M	23.6	+0.9				24.5	50.0		Black	Peak	-25.5
190	21.561M	26.4	+1.0				27.4	50.0		Black	Peak	-22.6
191	21.670M	26.5	+1.0				27.5	50.0		Black	Peak	-22.5
192	21.724M	25.7	+1.0				26.7	50.0		Black	Peak	-23.3
193	23.332M	25.0	+1.2				26.2	50.0		Black	Peak	-23.8
194	23.462M	24.9	+1.2				26.1	50.0		Black	Peak	-23.9
195	23.935M	31.3	+1.2				32.5	50.0		Black	Peak	-17.5
196	24.058M	31.1	+1.2				32.3	50.0		Black	Peak	-17.7
197	24.120M	31.2	+1.2				32.4	50.0		Black	Peak	-17.6
198	24.538M	23.4	+1.2				24.6	50.0		Black	Peak	-25.4
199	24.655M	23.6	+1.2				24.8	50.0		Black	Peak	-25.2
200	24.716M	23.6	+1.2				24.8	50.0		Black	Peak	-25.2



Wyle Laboratories

Customer: UNISYN
 Specification: FCC Class B Conducted Ave

Work Order #:	T56285	Date:	Wed Jul-01-2009
Test Type:	Conducted Emissions	Time:	11:51:17
Equipment:	Voting Device	Sequence:	2
Manufacturer:	UNISYN	Tested By:	J. Smith <i>J. Smith 7-1-09</i>
Model:	Open Elect Voting Optical		
S/N:	UNI000004		
Voltage:	120V 60Hz		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model#	S/N
*Voting Device	UNISYN	Open Elect Voting Optical	UNI000004
Interface	UNISYN	Open Elect Voting Interface	UNI150006
UPS	Entrust	ETR1500	0900407
UPS	Entrust	ETR1500	0900268

Support Devices:

Function	Manufacturer	Model#	S/N
None			

Test Conditions / Notes:

Neutral Active

Transducer Legend:

T1=LISN Wyle #110238 N

Measurement Data:

#	Freq	Rdng dB μ V	T1	Readings listed by frequency.				Test Lead: White			
				Corr dB μ V	Spec dB μ V		Polar	Type	Margin		
1	150.980k	54.2	+1.5				55.7	55.9	White	QP	-0.2
2	153.636k	59.8	+1.5				61.3	55.8	White	Peak	+5.5
3	157.272k	62.8	+1.4				64.2	55.6	White	Peak	+8.6
4	158.380k	53.0	+1.4				54.4	55.5	White	QP	-1.1
5	159.600k	52.4	+1.4				53.8	55.5	White	QP	-1.7
6	160.908k	58.8	+1.4				60.2	55.4	White	Peak	+4.8
7	167.453k	61.6	+1.2				62.8	55.1	White	Peak	+7.7
8	170.980k	51.4	+1.2				52.6	54.9	White	QP	-2.3
9	179.815k	59.7	+1.1				60.8	54.5	White	Peak	+6.3
10	183.980k	49.1	+1.1				50.2	54.3	White	QP	-4.1
11	190.480k	49.3	+1.0				50.3	54.0	White	QP	-3.7
12	192.178k	56.4	+1.0				57.4	53.9	White	Peak	+3.5
13	193.100k	48.6	+1.0				49.6	53.9	White	QP	-4.3
14	193.632k	55.3	+1.0				56.3	53.9	White	Peak	+2.4
15	195.860k	47.3	+1.0				48.3	53.8	White	QP	-5.5
16	203.086k	54.9	+1.0				55.9	53.5	White	Peak	+2.4
17	728.800k	44.6	+0.1				44.7	46.0	White	Ave	-1.3
18	728.840k	48.5	+0.1				48.6	46.0	White	QP	+2.6
19	729.578k	51.7	+0.1				51.8	46.0	White	Peak	+5.8
20	768.120k	46.9	+0.1				47.0	46.0	White	Peak	+1.0
21	771.140k	45.8	+0.1				45.9	46.0	White	QP	-0.1



Wyle Laboratories

Customer: UNISYN
 Specification: FCC Class B Conducted Ave

Work Order #:	T56285	Date:	Wed Jul-01-2009
Test Type:	Conducted Emissions	Time:	11:47:05
Equipment:	Voting Device	Sequence:	2
Manufacturer:	UNISYN	Tested By:	J. Smith <i>J.Smith 7-1-09</i>
Model:	Open Elect Voting Optical		
S/N:	UNI000004		
Voltage:	120V 60Hz		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model#	S/N
*Voting Device	UNISYN	Open Elect Voting Optical	UNI000004
Interface	UNISYN	Open Elect Voting Interface	UNI150006
UPS	Entrust	ETR1500	0900407
UPS	Entrust	ETR1500	0900268

Support Devices:

Function	Manufacturer	Model#	S/N
None			

Test Conditions / Notes:

Neutral Active

Transducer Legend:

T1=LISN Wyle #110238 N

#	Freq	Rdng dB μ V	Readings listed by frequency.				Test Lead: White					
			T1				Corr dB μ V	Spec dB μ V		Polar	Type	Margin
1	153.636k	59.8	+1.5				61.3	55.8		White	Peak	+5.5
2	157.272k	62.8	+1.4				64.2	55.6		White	Peak	+8.6
3	160.908k	58.8	+1.4				60.2	55.4		White	Peak	+4.8
4	167.453k	61.6	+1.2				62.8	55.1		White	Peak	+7.7
5	179.815k	59.7	+1.1				60.8	54.5		White	Peak	+6.3
6	192.178k	56.4	+1.0				57.4	53.9		White	Peak	+3.5
7	193.632k	55.3	+1.0				56.3	53.9		White	Peak	+2.4
8	203.086k	54.9	+1.0				55.9	53.5		White	Peak	+2.4
9	215.448k	51.4	+0.9				52.3	53.0		White	Peak	-0.7
10	220.538k	49.9	+0.9				50.8	52.8		White	Peak	-2.0
11	225.629k	50.7	+0.9				51.6	52.6		White	Peak	-1.0
12	238.718k	49.9	+0.8				50.7	52.1		White	Peak	-1.4
13	244.536k	50.0	+0.8				50.8	51.9		White	Peak	-1.1
14	253.990k	49.4	+0.8				50.2	51.6		White	Peak	-1.4
15	261.262k	47.9	+0.7				48.6	51.4		White	Peak	-2.8
16	264.898k	47.8	+0.7				48.5	51.3		White	Peak	-2.8
17	272.170k	46.8	+0.7				47.5	51.1		White	Peak	-3.6
18	282.350k	45.5	+0.7				46.2	50.7		White	Peak	-4.5
19	287.441k	45.5	+0.6				46.1	50.6		White	Peak	-4.5
20	291.804k	45.1	+0.6				45.7	50.5		White	Peak	-4.8
21	296.167k	45.4	+0.6				46.0	50.3		White	Peak	-4.3
22	299.803k	41.7	+0.6				42.3	50.2		White	Peak	-7.9
23	307.075k	44.4	+0.6				45.0	50.0		White	Peak	-5.0
24	311.438k	43.9	+0.6				44.5	49.9		White	Peak	-5.4
25	320.165k	41.3	+0.5				41.8	49.7		White	Peak	-7.9
26	330.346k	43.4	+0.5				43.9	49.4		White	Peak	-5.5
27	335.436k	42.0	+0.5				42.5	49.3		White	Peak	-6.8
28	344.162k	44.6	+0.5				45.1	49.1		White	Peak	-4.0
29	348.526k	43.1	+0.4				43.5	49.0		White	Peak	-5.5
30	352.162k	40.8	+0.4				41.2	48.9		White	Peak	-7.7
31	359.434k	42.1	+0.4				42.5	48.7		White	Peak	-6.2
32	365.251k	41.4	+0.4				41.8	48.6		White	Peak	-6.8
33	368.160k	41.9	+0.4				42.3	48.5		White	Peak	-6.2
34	379.068k	39.3	+0.4				39.7	48.3		White	Peak	-8.6

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Wyle Laboratories

#	Freq	Rdng dB μ V	T1				Corr dB μ V	Spec dB μ V		Polar	Type	Margin
35	384.886k	37.6	+0.3				37.9	48.2		White	Peak	-10.3
36	391.430k	42.6	+0.3				42.9	48.0		White	Peak	-5.1
37	395.794k	39.4	+0.3				39.7	47.9		White	Peak	-8.2
38	403.793k	38.9	+0.3				39.2	47.8		White	Peak	-8.6
39	405.247k	37.8	+0.3				38.1	47.7		White	Peak	-9.6
40	411.792k	39.1	+0.3				39.4	47.6		White	Peak	-8.2
41	440.880k	35.6	+0.3				35.9	47.0		White	Peak	-11.1
42	448.152k	33.3	+0.3				33.6	46.9		White	Peak	-13.3
43	453.242k	35.6	+0.3				35.9	46.8		White	Peak	-10.9
44	458.333k	32.9	+0.3				33.2	46.7		White	Peak	-13.5
45	462.696k	33.7	+0.3				34.0	46.6		White	Peak	-12.6
46	464.150k	34.1	+0.3				34.4	46.6		White	Peak	-12.2
47	470.695k	34.0	+0.3				34.3	46.5		White	Peak	-12.2
48	474.331k	33.3	+0.3				33.6	46.4		White	Peak	-12.8
49	476.513k	34.6	+0.3				34.9	46.4		White	Peak	-11.5
50	478.694k	35.1	+0.3				35.4	46.4		White	Peak	-11.0
51	488.875k	36.0	+0.3				36.3	46.2		White	Peak	-9.9
52	492.511k	37.3	+0.2				37.5	46.1		White	Peak	-8.6
53	498.329k	37.4	+0.2				37.6	46.0		White	Peak	-8.4
54	501.965k	36.0	+0.2				36.2	46.0		White	Peak	-9.8
55	507.782k	37.8	+0.2				38.0	46.0		White	Peak	-8.0
56	511.418k	37.1	+0.2				37.3	46.0		White	Peak	-8.7
57	520.145k	38.1	+0.2				38.3	46.0		White	Peak	-7.7
58	526.690k	38.4	+0.2				38.6	46.0		White	Peak	-7.4
59	530.326k	39.7	+0.2				39.9	46.0		White	Peak	-6.1
60	533.234k	38.3	+0.2				38.5	46.0		White	Peak	-7.5
61	538.325k	38.1	+0.2				38.3	46.0		White	Peak	-7.7
62	545.597k	38.4	+0.2				38.6	46.0		White	Peak	-7.4
63	550.687k	38.5	+0.2				38.7	46.0		White	Peak	-7.3
64	553.596k	39.1	+0.2				39.3	46.0		White	Peak	-6.7
65	560.141k	37.7	+0.2				37.9	46.0		White	Peak	-8.1
66	565.231k	38.6	+0.2				38.8	46.0		White	Peak	-7.2
67	574.685k	39.1	+0.2				39.3	46.0		White	Peak	-6.7
68	579.775k	38.4	+0.2				38.6	46.0		White	Peak	-7.4
69	586.320k	37.3	+0.2				37.5	46.0		White	Peak	-8.5
70	592.865k	37.4	+0.2				37.6	46.0		White	Peak	-8.4
71	597.228k	37.0	+0.2				37.2	46.0		White	Peak	-8.8
72	606.682k	34.2	+0.2				34.4	46.0		White	Peak	-11.6
73	611.772k	35.9	+0.2				36.1	46.0		White	Peak	-9.9
74	641.587k	31.0	+0.2				31.2	46.0		White	Peak	-14.8
75	651.041k	30.4	+0.2				30.6	46.0		White	Peak	-15.4
76	653.222k	31.3	+0.2				31.5	46.0		White	Peak	-14.5
77	661.222k	29.8	+0.2				30.0	46.0		White	Peak	-16.0
78	669.948k	31.9	+0.2				32.1	46.0		White	Peak	-13.9
79	677.220k	31.2	+0.2				31.4	46.0		White	Peak	-14.6
80	679.402k	28.4	+0.2				28.6	46.0		White	Peak	-17.4
81	693.946k	28.9	+0.1				29.0	46.0		White	Peak	-17.0
82	707.035k	30.8	+0.1				30.9	46.0		White	Peak	-15.1
83	729.578k	51.7	+0.1				51.8	46.0		White	Peak	+5.8
84	741.941k	31.1	+0.1				31.2	46.0		White	Peak	-14.8
85	749.213k	35.4	+0.1				35.5	46.0		White	Peak	-10.5
86	755.030k	32.3	+0.1				32.4	46.0		White	Peak	-13.6
87	768.120k	46.9	+0.1				47.0	46.0		White	Peak	+1.0
88	779.755k	39.5	+0.1				39.6	46.0		White	Peak	-6.4
89	783.391k	38.5	+0.1				38.6	46.0		White	Peak	-7.4
90	789.209k	39.5	+0.1				39.6	46.0		White	Peak	-6.4
91	814.661k	40.5	+0.1				40.6	46.0		White	Peak	-5.4
92	837.204k	40.6	+0.1				40.7	46.0		White	Peak	-5.3
93	873.564k	37.1	+0.1				37.2	46.0		White	Peak	-8.8
94	877.000k	37.0	+0.1				37.1	46.0		White	Peak	-8.9
95	949.301k	34.7	+0.1				34.8	46.0		White	Peak	-11.2
96	1.000M	33.6	+0.1				33.7	46.0		White	Peak	-12.3
97	1.034M	24.2	+0.1				24.3	46.0		White	Peak	-21.7

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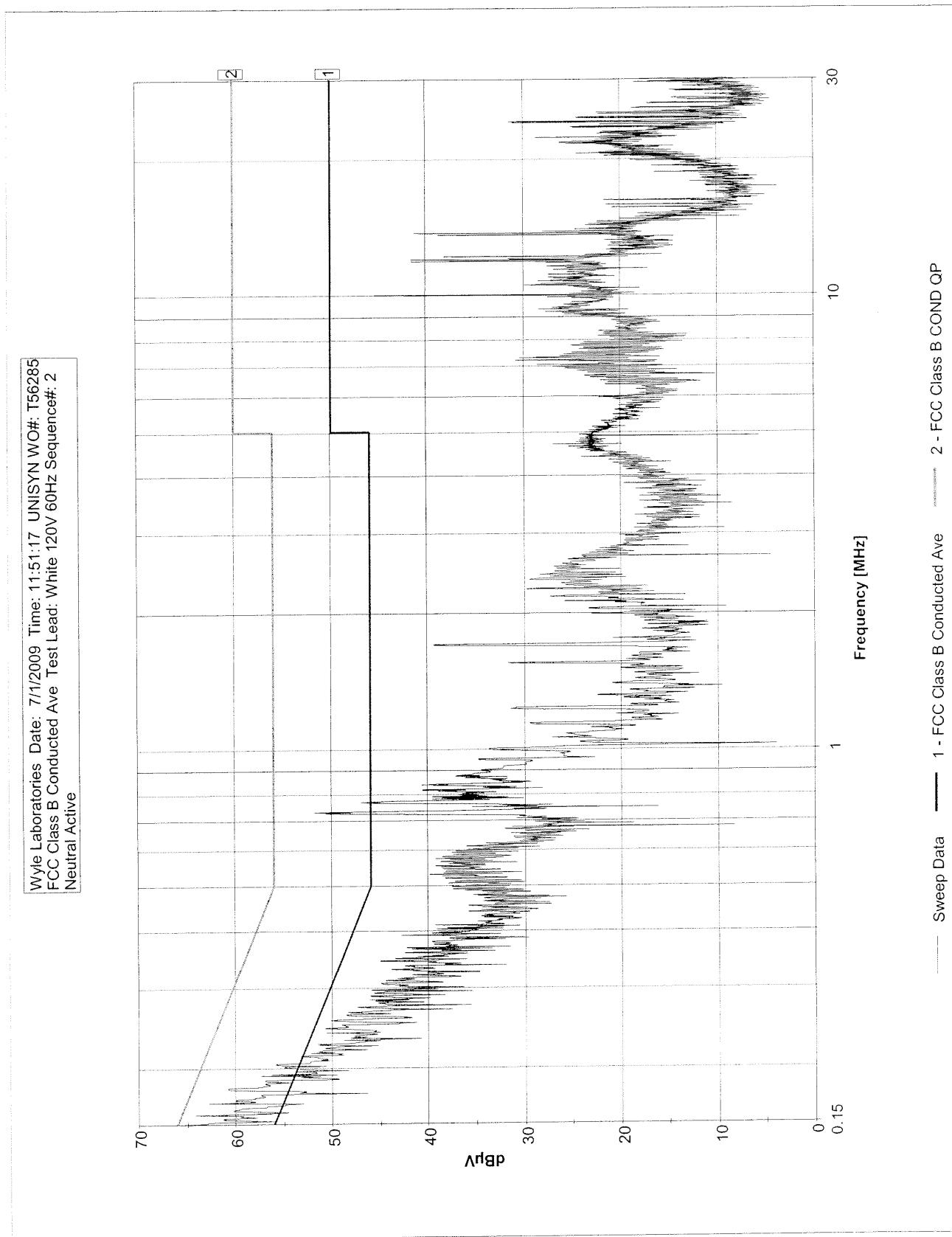
Wyle Laboratories

#	Freq	Rdng dB μ V	T1				Corr dB μ V	Spec dB μ V		Polar	Type	Margin
98	1.060M	27.1	+0.1				27.2	46.0		White	Peak	-18.8
99	1.115M	23.1	+0.1				23.2	46.0		White	Peak	-22.8
100	1.141M	29.4	+0.1				29.5	46.0		White	Peak	-16.5
101	1.192M	20.5	+0.1				20.6	46.0		White	Peak	-25.4
102	1.226M	31.4	+0.1				31.5	46.0		White	Peak	-14.5
103	1.307M	22.4	+0.1				22.5	46.0		White	Peak	-23.5
104	1.396M	20.9	+0.1				21.0	46.0		White	Peak	-25.0
105	1.502M	20.0	+0.1				20.1	46.0		White	Peak	-25.9
106	1.549M	31.6	+0.1				31.7	46.0		White	Peak	-14.3
107	1.698M	39.3	+0.1				39.4	46.0		White	Peak	-6.6
108	1.753M	20.8	+0.1				20.9	46.0		White	Peak	-25.1
109	1.983M	23.0	+0.1				23.1	46.0		White	Peak	-22.9
110	2.038M	23.3	+0.1				23.4	46.0		White	Peak	-22.6
111	2.115M	25.8	+0.1				25.9	46.0		White	Peak	-20.1
112	2.170M	27.3	+0.1				27.4	46.0		White	Peak	-18.6
113	2.208M	22.3	+0.1				22.4	46.0		White	Peak	-23.6
114	2.251M	29.7	+0.1				29.8	46.0		White	Peak	-16.2
115	2.268M	23.8	+0.1				23.9	46.0		White	Peak	-22.1
116	2.361M	29.4	+0.1				29.5	46.0		White	Peak	-16.5
117	2.383M	24.5	+0.1				24.6	46.0		White	Peak	-21.4
118	2.400M	27.3	+0.1				27.4	46.0		White	Peak	-18.6
119	2.425M	28.3	+0.1				28.4	46.0		White	Peak	-17.6
120	2.459M	26.8	+0.1				26.9	46.0		White	Peak	-19.1
121	2.527M	26.9	+0.1				27.0	46.0		White	Peak	-19.0
122	2.668M	24.0	+0.1				24.1	46.0		White	Peak	-21.9
123	2.706M	23.2	+0.1				23.3	46.0		White	Peak	-22.7
124	2.731M	22.6	+0.1				22.7	46.0		White	Peak	-23.3
125	2.808M	20.4	+0.1				20.5	46.0		White	Peak	-25.5
126	2.965M	20.1	+0.1				20.2	46.0		White	Peak	-25.8
127	3.965M	19.8	+0.1				19.9	46.0		White	Peak	-26.1
128	4.258M	20.7	+0.1				20.8	46.0		White	Peak	-25.2
129	4.330M	21.2	+0.1				21.3	46.0		White	Peak	-24.7
130	4.390M	24.0	+0.1				24.1	46.0		White	Peak	-21.9
131	4.590M	24.4	+0.1				24.5	46.0		White	Peak	-21.5
132	4.632M	25.3	+0.1				25.4	46.0		White	Peak	-20.6
133	4.688M	26.9	+0.1				27.0	46.0		White	Peak	-19.0
134	4.922M	24.2	+0.1				24.3	46.0		White	Peak	-21.7
135	5.994M	24.1	+0.1				24.2	50.0		White	Peak	-25.8
136	6.823M	24.4	+0.1				24.5	50.0		White	Peak	-25.5
137	6.904M	25.6	+0.1				25.7	50.0		White	Peak	-24.3
138	6.967M	26.9	+0.1				27.0	50.0		White	Peak	-23.0
139	7.039M	28.5	+0.1				28.6	50.0		White	Peak	-21.4
140	7.156M	25.2	+0.1				25.3	50.0		White	Peak	-24.7
141	7.192M	30.7	+0.1				30.8	50.0		White	Peak	-19.2
142	7.291M	30.3	+0.1				30.4	50.0		White	Peak	-19.6
143	7.309M	28.6	+0.1				28.7	50.0		White	Peak	-21.3
144	7.354M	26.2	+0.1				26.3	50.0		White	Peak	-23.7
145	7.417M	25.8	+0.1				25.9	50.0		White	Peak	-24.1
146	7.480M	24.9	+0.1				25.0	50.0		White	Peak	-25.0
147	7.615M	24.1	+0.2				24.3	50.0		White	Peak	-25.7
148	7.643M	23.6	+0.2				23.8	50.0		White	Peak	-26.2
149	7.679M	23.6	+0.2				23.8	50.0		White	Peak	-26.2
150	7.751M	24.9	+0.2				25.1	50.0		White	Peak	-24.9
151	7.814M	24.0	+0.2				24.2	50.0		White	Peak	-25.8
152	7.877M	23.6	+0.2				23.8	50.0		White	Peak	-26.2
153	9.075M	25.6	+0.2				25.8	50.0		White	Peak	-24.2
154	9.183M	27.5	+0.2				27.7	50.0		White	Peak	-22.3
155	9.228M	25.2	+0.2				25.4	50.0		White	Peak	-24.6
156	9.291M	28.2	+0.2				28.4	50.0		White	Peak	-21.6
157	9.877M	27.3	+0.2				27.5	50.0		White	Peak	-22.5
158	9.985M	45.2	+0.2				45.4	50.0		White	Peak	-4.6
159	10.048M	25.0	+0.2				25.2	50.0		White	Peak	-24.8
160	10.147M	23.8	+0.2				24.0	50.0		White	Peak	-26.0

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#	Freq	Rdng dB μ V	T1				Corr dB μ V	Spec dB μ V		Polar	Type	Margin
161	10.480M	29.1	+0.2				29.3	50.0		White	Peak	-20.7
162	10.498M	29.7	+0.2				29.9	50.0		White	Peak	-20.1
163	10.570M	28.0	+0.2				28.2	50.0		White	Peak	-21.8
164	10.715M	28.3	+0.2				28.5	50.0		White	Peak	-21.5
165	10.769M	27.0	+0.2				27.2	50.0		White	Peak	-22.8
166	10.850M	26.7	+0.2				26.9	50.0		White	Peak	-23.1
167	10.904M	27.2	+0.2				27.4	50.0		White	Peak	-22.6
168	11.066M	27.2	+0.2				27.4	50.0		White	Peak	-22.6
169	11.336M	26.7	+0.2				26.9	50.0		White	Peak	-23.1
170	11.543M	27.4	+0.2				27.6	50.0		White	Peak	-22.4
171	11.615M	25.3	+0.2				25.5	50.0		White	Peak	-24.5
172	11.778M	28.5	+0.3				28.8	50.0		White	Peak	-21.2
173	11.832M	41.3	+0.3				41.6	50.0		White	Peak	-8.4
174	11.868M	37.3	+0.3				37.6	50.0		White	Peak	-12.4
175	11.931M	41.3	+0.3				41.6	50.0		White	Peak	-8.4
176	11.967M	31.1	+0.3				31.4	50.0		White	Peak	-18.6
177	12.030M	31.3	+0.3				31.6	50.0		White	Peak	-18.4
178	12.165M	37.9	+0.3				38.2	50.0		White	Peak	-11.8
179	13.570M	38.4	+0.4				38.8	50.0		White	Peak	-11.2
180	13.697M	40.9	+0.4				41.3	50.0		White	Peak	-8.7
181	13.823M	27.6	+0.4				28.0	50.0		White	Peak	-22.0
182	13.850M	23.7	+0.4				24.1	50.0		White	Peak	-25.9
183	13.958M	24.3	+0.4				24.7	50.0		White	Peak	-25.3
184	20.534M	23.8	+0.8				24.6	50.0		White	Peak	-25.4
185	21.516M	24.3	+0.7				25.0	50.0		White	Peak	-25.0
186	21.543M	24.9	+0.7				25.6	50.0		White	Peak	-24.4
187	21.661M	25.6	+0.7				26.3	50.0		White	Peak	-23.7
188	21.715M	25.4	+0.7				26.1	50.0		White	Peak	-23.9
189	21.841M	24.3	+0.7				25.0	50.0		White	Peak	-25.0
190	22.219M	28.0	+0.7				28.7	50.0		White	Peak	-21.3
191	23.339M	24.1	+0.8				24.9	50.0		White	Peak	-25.1
192	23.449M	24.3	+0.8				25.1	50.0		White	Peak	-24.9
193	23.497M	23.4	+0.8				24.2	50.0		White	Peak	-25.8
194	23.921M	30.3	+0.8				31.1	50.0		White	Peak	-18.9
195	24.045M	30.7	+0.8				31.5	50.0		White	Peak	-18.5
196	24.106M	29.8	+0.8				30.6	50.0		White	Peak	-19.4
197	24.524M	23.6	+0.9				24.5	50.0		White	Peak	-25.5
198	24.648M	23.7	+0.9				24.6	50.0		White	Peak	-25.4
199	24.709M	23.5	+0.9				24.4	50.0		White	Peak	-25.6





Wyle Laboratories

Customer: UNISYN
 Specification: FCC Class B Conducted Ave

Work Order #:	T56285	Date:	Wed Jul-01-2009
Test Type:	Conducted Emissions	Time:	1:59:38 PM
Equipment:	Voting Device	Sequence:	3
Manufacturer:	UNISYN	Tested By:	J. Smith <i>J. Smith 7-1-09</i>
Model:	Open Elect Voting Optical		
S/N:	UNI000004		
Voltage:	120V 60Hz		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model#	S/N
*Voting Device	UNISYN	Open Elect Voting Optical	UNI000004
Interface	UNISYN	Open Elect Voting Interface	UNI150006
UPS	Entrust	ETR1500	0900407
UPS	Entrust	ETR1500	0900268

Support Devices:

Function	Manufacturer	Model#	S/N
None			

Test Conditions / Notes:

Line Ambient

Transducer Legend:

T1=LISN Wyle #110238 L

Measurement Data:

#	Freq	Rdng dB μ V	T1	Readings listed by frequency.				Test Lead: Black			
				Corr dB μ V	Spec dB μ V	Lead	Polar	Type	Margin		
1	151.454k	16.4	+1.5				17.9	55.9	Black	Peak	-38.0
2	167.453k	11.4	+1.3				12.7	55.1	Black	Peak	-42.4
3	215.448k	15.4	+0.9				16.3	53.0	Black	Peak	-36.7
4	253.990k	13.2	+0.8				14.0	51.6	Black	Peak	-37.6
5	269.261k	14.6	+0.7				15.3	51.1	Black	Peak	-35.8
6	279.442k	11.6	+0.7				12.3	50.8	Black	Peak	-38.5
7	302.712k	15.2	+0.6				15.8	50.2	Black	Peak	-34.4
8	335.436k	9.6	+0.5				10.1	49.3	Black	Peak	-39.2
9	344.890k	8.4	+0.4				8.8	49.1	Black	Peak	-40.3
10	349.253k	6.6	+0.4				7.0	49.0	Black	Peak	-42.0
11	355.070k	7.2	+0.4				7.6	48.8	Black	Peak	-41.2
12	372.523k	6.7	+0.4				7.1	48.4	Black	Peak	-41.3
13	407.429k	7.8	+0.3				8.1	47.7	Black	Peak	-39.6
14	430.699k	5.9	+0.3				6.2	47.2	Black	Peak	-41.0
15	440.880k	5.8	+0.3				6.1	47.0	Black	Peak	-40.9
16	471.422k	7.7	+0.3				8.0	46.5	Black	Peak	-38.5
17	515.782k	7.4	+0.2				7.6	46.0	Black	Peak	-38.4
18	529.598k	5.3	+0.2				5.5	46.0	Black	Peak	-40.5
19	535.416k	5.4	+0.2				5.6	46.0	Black	Peak	-40.4
20	564.504k	5.7	+0.2				5.9	46.0	Black	Peak	-40.1
21	579.048k	5.3	+0.2				5.5	46.0	Black	Peak	-40.5
22	583.411k	5.5	+0.2				5.7	46.0	Black	Peak	-40.3
23	605.954k	6.2	+0.2				6.4	46.0	Black	Peak	-39.6
24	629.952k	5.5	+0.2				5.7	46.0	Black	Peak	-40.3
25	635.770k	5.1	+0.2				5.3	46.0	Black	Peak	-40.7
26	652.495k	5.4	+0.2				5.6	46.0	Black	Peak	-40.4
27	666.312k	5.1	+0.2				5.3	46.0	Black	Peak	-40.7
28	671.402k	5.6	+0.2				5.8	46.0	Black	Peak	-40.2
29	677.220k	5.8	+0.2				6.0	46.0	Black	Peak	-40.0
30	680.129k	6.4	+0.2				6.6	46.0	Black	Peak	-39.4
31	709.944k	6.1	+0.1				6.2	46.0	Black	Peak	-39.8
32	726.670k	14.5	+0.1				14.6	46.0	Black	Peak	-31.4
33	743.395k	6.2	+0.1				6.3	46.0	Black	Peak	-39.7
34	757.939k	5.6	+0.1				5.7	46.0	Black	Peak	-40.3

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#	Freq	Rdng dB μ V	T1				Corr dB μ V	Spec dB μ V		Polar	Type	Margin
35	770.302k	8.9	+0.1				9.0	46.0		Black	Peak	-37.0
36	805.934k	5.7	+0.1				5.8	46.0		Black	Peak	-40.2
37	848.112k	5.5	+0.1				5.6	46.0		Black	Peak	-40.4
38	953.554k	5.5	+0.1				5.6	46.0		Black	Peak	-40.4
39	1.136M	5.9	+0.1				6.0	46.0		Black	Peak	-40.0
40	1.256M	5.7	+0.1				5.8	46.0		Black	Peak	-40.2
41	1.396M	7.4	+0.1				7.5	46.0		Black	Peak	-38.5
42	1.404M	5.5	+0.1				5.6	46.0		Black	Peak	-40.4
43	1.498M	5.6	+0.1				5.7	46.0		Black	Peak	-40.3
44	1.523M	5.4	+0.1				5.5	46.0		Black	Peak	-40.5
45	1.549M	5.1	+0.1				5.2	46.0		Black	Peak	-40.8
46	1.592M	5.9	+0.1				6.0	46.0		Black	Peak	-40.0
47	1.660M	5.2	+0.1				5.3	46.0		Black	Peak	-40.7
48	1.796M	5.8	+0.1				5.9	46.0		Black	Peak	-40.1
49	1.847M	5.7	+0.1				5.8	46.0		Black	Peak	-40.2
50	2.140M	6.1	+0.1				6.2	46.0		Black	Peak	-39.8
51	2.195M	5.0	+0.1				5.1	46.0		Black	Peak	-40.9
52	2.280M	5.7	+0.1				5.8	46.0		Black	Peak	-40.2
53	2.468M	6.9	+0.1				7.0	46.0		Black	Peak	-39.0
54	2.531M	5.6	+0.1				5.7	46.0		Black	Peak	-40.3
55	2.616M	6.2	+0.1				6.3	46.0		Black	Peak	-39.7
56	2.812M	6.0	+0.1				6.1	46.0		Black	Peak	-39.9
57	3.242M	5.3	+0.1				5.4	46.0		Black	Peak	-40.6
58	3.348M	5.8	+0.1				5.9	46.0		Black	Peak	-40.1
59	3.437M	5.3	+0.1				5.4	46.0		Black	Peak	-40.6
60	3.522M	5.6	+0.1				5.7	46.0		Black	Peak	-40.3
61	3.705M	6.4	+0.1				6.5	46.0		Black	Peak	-39.5
62	3.769M	5.2	+0.1				5.3	46.0		Black	Peak	-40.7
63	3.960M	5.4	+0.1				5.5	46.0		Black	Peak	-40.5
64	4.016M	5.2	+0.1				5.3	46.0		Black	Peak	-40.7
65	4.250M	5.2	+0.1				5.3	46.0		Black	Peak	-40.7
66	4.433M	5.6	+0.1				5.7	46.0		Black	Peak	-40.3
67	4.556M	5.8	+0.1				5.9	46.0		Black	Peak	-40.1
68	4.594M	5.6	+0.1				5.7	46.0		Black	Peak	-40.3
69	4.675M	5.3	+0.1				5.4	46.0		Black	Peak	-40.6
70	4.696M	5.8	+0.1				5.9	46.0		Black	Peak	-40.1
71	4.807M	5.4	+0.1				5.5	46.0		Black	Peak	-40.5
72	5.724M	5.5	+0.1				5.6	50.0		Black	Peak	-44.4
73	5.904M	5.5	+0.1				5.6	50.0		Black	Peak	-44.4
74	6.048M	5.9	+0.1				6.0	50.0		Black	Peak	-44.0
75	6.255M	5.9	+0.1				6.0	50.0		Black	Peak	-44.0
76	6.624M	5.7	+0.2				5.9	50.0		Black	Peak	-44.1
77	6.688M	5.8	+0.2				6.0	50.0		Black	Peak	-44.0
78	7.525M	6.5	+0.2				6.7	50.0		Black	Peak	-43.3
79	7.805M	6.3	+0.2				6.5	50.0		Black	Peak	-43.5
80	7.832M	5.8	+0.2				6.0	50.0		Black	Peak	-44.0
81	7.850M	5.4	+0.2				5.6	50.0		Black	Peak	-44.4
82	8.165M	5.7	+0.2				5.9	50.0		Black	Peak	-44.1
83	8.417M	5.3	+0.2				5.5	50.0		Black	Peak	-44.5
84	8.480M	5.4	+0.2				5.6	50.0		Black	Peak	-44.4
85	8.534M	5.4	+0.2				5.6	50.0		Black	Peak	-44.4
86	8.606M	5.4	+0.2				5.6	50.0		Black	Peak	-44.4
87	9.066M	6.2	+0.2				6.4	50.0		Black	Peak	-43.6
88	9.994M	6.0	+0.2				6.2	50.0		Black	Peak	-43.8
89	10.084M	4.9	+0.2				5.1	50.0		Black	Peak	-44.9
90	10.138M	6.7	+0.2				6.9	50.0		Black	Peak	-43.1
91	10.210M	5.6	+0.2				5.8	50.0		Black	Peak	-44.2
92	10.327M	5.1	+0.2				5.3	50.0		Black	Peak	-44.7
93	10.534M	5.4	+0.2				5.6	50.0		Black	Peak	-44.4
94	10.742M	5.7	+0.3				6.0	50.0		Black	Peak	-44.0
95	10.904M	5.1	+0.3				5.4	50.0		Black	Peak	-44.6
96	11.913M	6.1	+0.3				6.4	50.0		Black	Peak	-43.6
97	12.003M	5.4	+0.3				5.7	50.0		Black	Peak	-44.3

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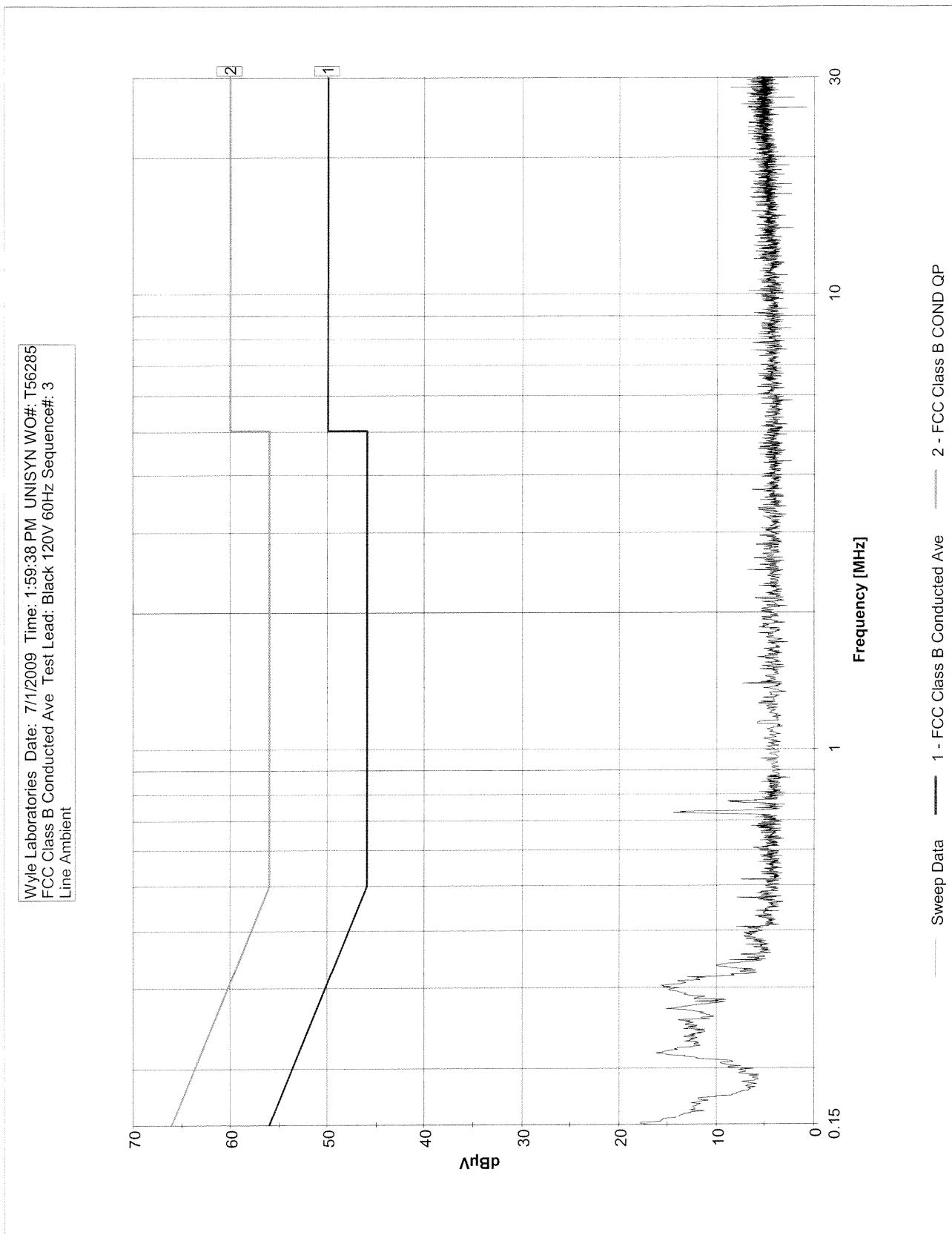
Wyle Laboratories

#	Freq	Rdng dB μ V	T1					Corr dB μ V	Spec dB μ V		Polar	Type	Margin
98	12.102M	5.2	+0.3					5.5	50.0		Black	Peak	-44.5
99	12.156M	5.6	+0.3					5.9	50.0		Black	Peak	-44.1
100	12.237M	5.3	+0.3					5.6	50.0		Black	Peak	-44.4
101	12.399M	5.9	+0.3					6.2	50.0		Black	Peak	-43.8
102	12.561M	5.5	+0.3					5.8	50.0		Black	Peak	-44.2
103	12.643M	5.3	+0.3					5.6	50.0		Black	Peak	-44.4
104	12.769M	6.0	+0.4					6.4	50.0		Black	Peak	-43.6
105	12.994M	5.6	+0.4					6.0	50.0		Black	Peak	-44.0
106	13.210M	5.3	+0.4					5.7	50.0		Black	Peak	-44.3
107	13.417M	5.9	+0.4					6.3	50.0		Black	Peak	-43.7
108	13.435M	5.6	+0.4					6.0	50.0		Black	Peak	-44.0
109	13.922M	5.4	+0.5					5.9	50.0		Black	Peak	-44.1
110	13.994M	4.7	+0.5					5.2	50.0		Black	Peak	-44.8
111	14.201M	5.5	+0.6					6.1	50.0		Black	Peak	-43.9
112	14.742M	5.5	+0.6					6.1	50.0		Black	Peak	-43.9
113	15.192M	6.0	+0.6					6.6	50.0		Black	Peak	-43.4
114	15.624M	5.5	+0.6					6.1	50.0		Black	Peak	-43.9
115	15.733M	5.5	+0.6					6.1	50.0		Black	Peak	-43.9
116	15.913M	5.6	+0.6					6.2	50.0		Black	Peak	-43.8
117	16.246M	6.0	+0.6					6.6	50.0		Black	Peak	-43.4
118	16.318M	6.2	+0.6					6.8	50.0		Black	Peak	-43.2
119	16.390M	5.4	+0.6					6.0	50.0		Black	Peak	-44.0
120	16.670M	5.8	+0.6					6.4	50.0		Black	Peak	-43.6
121	16.787M	5.6	+0.6					6.2	50.0		Black	Peak	-43.8
122	16.967M	5.4	+0.6					6.0	50.0		Black	Peak	-44.0
123	17.084M	6.1	+0.6					6.7	50.0		Black	Peak	-43.3
124	17.381M	5.7	+0.6					6.3	50.0		Black	Peak	-43.7
125	17.426M	5.8	+0.6					6.4	50.0		Black	Peak	-43.6
126	17.643M	5.8	+0.6					6.4	50.0		Black	Peak	-43.6
127	17.715M	5.1	+0.6					5.7	50.0		Black	Peak	-44.3
128	17.922M	5.3	+0.6					5.9	50.0		Black	Peak	-44.1
129	18.210M	5.6	+0.6					6.2	50.0		Black	Peak	-43.8
130	18.282M	5.8	+0.6					6.4	50.0		Black	Peak	-43.6
131	18.516M	6.2	+0.6					6.8	50.0		Black	Peak	-43.2
132	19.615M	6.2	+0.7					6.9	50.0		Black	Peak	-43.1
133	19.733M	5.7	+0.7					6.4	50.0		Black	Peak	-43.6
134	20.724M	5.8	+0.9					6.7	50.0		Black	Peak	-43.3
135	21.399M	5.3	+1.0					6.3	50.0		Black	Peak	-43.7
136	21.453M	5.1	+1.0					6.1	50.0		Black	Peak	-43.9
137	21.633M	5.1	+1.0					6.1	50.0		Black	Peak	-43.9
138	21.751M	5.6	+1.0					6.6	50.0		Black	Peak	-43.4
139	22.030M	5.3	+1.1					6.4	50.0		Black	Peak	-43.6
140	22.345M	5.9	+1.1					7.0	50.0		Black	Peak	-43.0
141	22.715M	5.9	+1.1					7.0	50.0		Black	Peak	-43.0
142	23.627M	5.7	+1.2					6.9	50.0		Black	Peak	-43.1
143	24.696M	5.0	+1.2					6.2	50.0		Black	Peak	-43.8
144	24.764M	5.1	+1.2					6.3	50.0		Black	Peak	-43.7
145	24.956M	5.3	+1.2					6.5	50.0		Black	Peak	-43.5
146	25.155M	5.2	+1.2					6.4	50.0		Black	Peak	-43.6
147	25.306M	5.5	+1.2					6.7	50.0		Black	Peak	-43.3
148	25.340M	5.0	+1.2					6.2	50.0		Black	Peak	-43.8
149	25.361M	5.4	+1.2					6.6	50.0		Black	Peak	-43.4
150	25.635M	5.9	+1.2					7.1	50.0		Black	Peak	-42.9
151	26.101M	6.5	+1.2					7.7	50.0		Black	Peak	-42.3
152	26.176M	5.1	+1.2					6.3	50.0		Black	Peak	-43.7
153	26.293M	5.5	+1.2					6.7	50.0		Black	Peak	-43.3
154	26.416M	5.8	+1.2					7.0	50.0		Black	Peak	-43.0
155	27.074M	5.7	+1.2					6.9	50.0		Black	Peak	-43.1
156	27.204M	5.3	+1.2					6.5	50.0		Black	Peak	-43.5
157	27.355M	5.5	+1.2					6.7	50.0		Black	Peak	-43.3
158	27.430M	5.4	+1.2					6.6	50.0		Black	Peak	-43.4
159	27.464M	5.6	+1.2					6.8	50.0		Black	Peak	-43.2
160	27.567M	5.9	+1.2					7.1	50.0		Black	Peak	-42.9

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#	Freq	Rdng dB μ V	T1					Corr dB μ V	Spec dB μ V		Polar	Type	Margin
161	27.588M	4.9	+1.2					6.1	50.0		Black	Peak	-43.9
162	27.834M	5.2	+1.2					6.4	50.0		Black	Peak	-43.6
163	28.396M	7.7	+1.1					8.8	50.0		Black	Peak	-41.2
164	28.520M	5.6	+1.1					6.7	50.0		Black	Peak	-43.3
165	28.554M	5.1	+1.1					6.2	50.0		Black	Peak	-43.8
166	28.739M	5.5	+1.1					6.6	50.0		Black	Peak	-43.4
167	28.828M	6.0	+1.1					7.1	50.0		Black	Peak	-42.9
168	29.102M	5.5	+1.1					6.6	50.0		Black	Peak	-43.4
169	29.164M	5.4	+1.1					6.5	50.0		Black	Peak	-43.5
170	29.198M	5.7	+1.1					6.8	50.0		Black	Peak	-43.2
171	29.315M	5.5	+1.1					6.6	50.0		Black	Peak	-43.4
172	29.459M	6.0	+1.1					7.1	50.0		Black	Peak	-42.9
173	29.644M	5.4	+1.1					6.5	50.0		Black	Peak	-43.5
174	29.733M	5.5	+1.1					6.6	50.0		Black	Peak	-43.4
175	29.815M	5.1	+1.1					6.2	50.0		Black	Peak	-43.8
176	29.979M	5.0	+1.1					6.1	50.0		Black	Peak	-43.9





Wyle Laboratories

Customer: UNISYN
 Specification: FCC Class B Conducted Ave

Work Order #:	T56285	Date:	Wed Jul-01-2009
Test Type:	Conducted Emissions	Time:	2:14:01 PM
Equipment:	Voting Device	Sequence:	4
Manufacturer:	UNISYN	Tested By:	J. Smith <i>J. Smith 7-1-09</i>
Model:	Open Elect Voting Optical		
S/N:	UNI000004		
Voltage:	120V 60Hz		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model#	S/N
*Voting Device	UNISYN	Open Elect Voting Optical	UNI000004
Interface	UNISYN	Open Elect Voting Interface	UNI150006
UPS	Entrust	ETR1500	0900407
UPS	Entrust	ETR1500	0900268

Support Devices:

Function	Manufacturer	Model#	S/N
None			

Test Conditions / Notes:

Neutral Ambient

Transducer Legend:

T1=LISN Wyle #110238 N

Measurement Data:

#	Freq	Rdng dB μ V	T1	Readings listed by frequency.				Test Lead: White				
								Corr dB μ V	Spec dB μ V	Polar	Type	Margin
1	151.454k	15.4	+1.5					16.9	55.9	White	Peak	-39.0
2	216.902k	15.5	+0.9					16.4	52.9	White	Peak	-36.5
3	302.712k	15.2	+0.6					15.8	50.2	White	Peak	-34.4
4	334.709k	10.3	+0.5					10.8	49.3	White	Peak	-38.5
5	357.979k	7.7	+0.4					8.1	48.8	White	Peak	-40.7
6	368.887k	8.8	+0.4					9.2	48.5	White	Peak	-39.3
7	496.147k	6.4	+0.2					6.6	46.1	White	Peak	-39.5
8	543.415k	6.3	+0.2					6.5	46.0	White	Peak	-39.5
9	727.397k	15.4	+0.1					15.5	46.0	White	Peak	-30.5
10	730.306k	15.1	+0.1					15.2	46.0	White	Peak	-30.8
11	764.484k	9.0	+0.1					9.1	46.0	White	Peak	-36.9
12	1.719M	6.3	+0.1					6.4	46.0	White	Peak	-39.6
13	1.893M	6.1	+0.1					6.2	46.0	White	Peak	-39.8
14	2.485M	6.2	+0.1					6.3	46.0	White	Peak	-39.7
15	2.497M	6.5	+0.1					6.6	46.0	White	Peak	-39.4
16	3.067M	5.7	+0.1					5.8	46.0	White	Peak	-40.2
17	3.106M	5.4	+0.1					5.5	46.0	White	Peak	-40.5
18	3.348M	5.8	+0.1					5.9	46.0	White	Peak	-40.1
19	3.386M	5.4	+0.1					5.5	46.0	White	Peak	-40.5
20	3.497M	5.1	+0.1					5.2	46.0	White	Peak	-40.8
21	3.654M	5.3	+0.1					5.4	46.0	White	Peak	-40.6
22	3.735M	5.4	+0.1					5.5	46.0	White	Peak	-40.5
23	3.748M	5.2	+0.1					5.3	46.0	White	Peak	-40.7
24	3.841M	5.4	+0.1					5.5	46.0	White	Peak	-40.5
25	3.884M	5.0	+0.1					5.1	46.0	White	Peak	-40.9
26	3.960M	5.5	+0.1					5.6	46.0	White	Peak	-40.4
27	4.028M	5.4	+0.1					5.5	46.0	White	Peak	-40.5
28	4.045M	5.3	+0.1					5.4	46.0	White	Peak	-40.6
29	4.194M	5.4	+0.1					5.5	46.0	White	Peak	-40.5
30	4.250M	6.1	+0.1					6.2	46.0	White	Peak	-39.8
31	4.560M	5.6	+0.1					5.7	46.0	White	Peak	-40.3
32	5.032M	6.1	+0.1					6.2	50.0	White	Peak	-43.8
33	6.219M	5.8	+0.1					5.9	50.0	White	Peak	-44.1
34	6.561M	6.5	+0.1					6.6	50.0	White	Peak	-43.4

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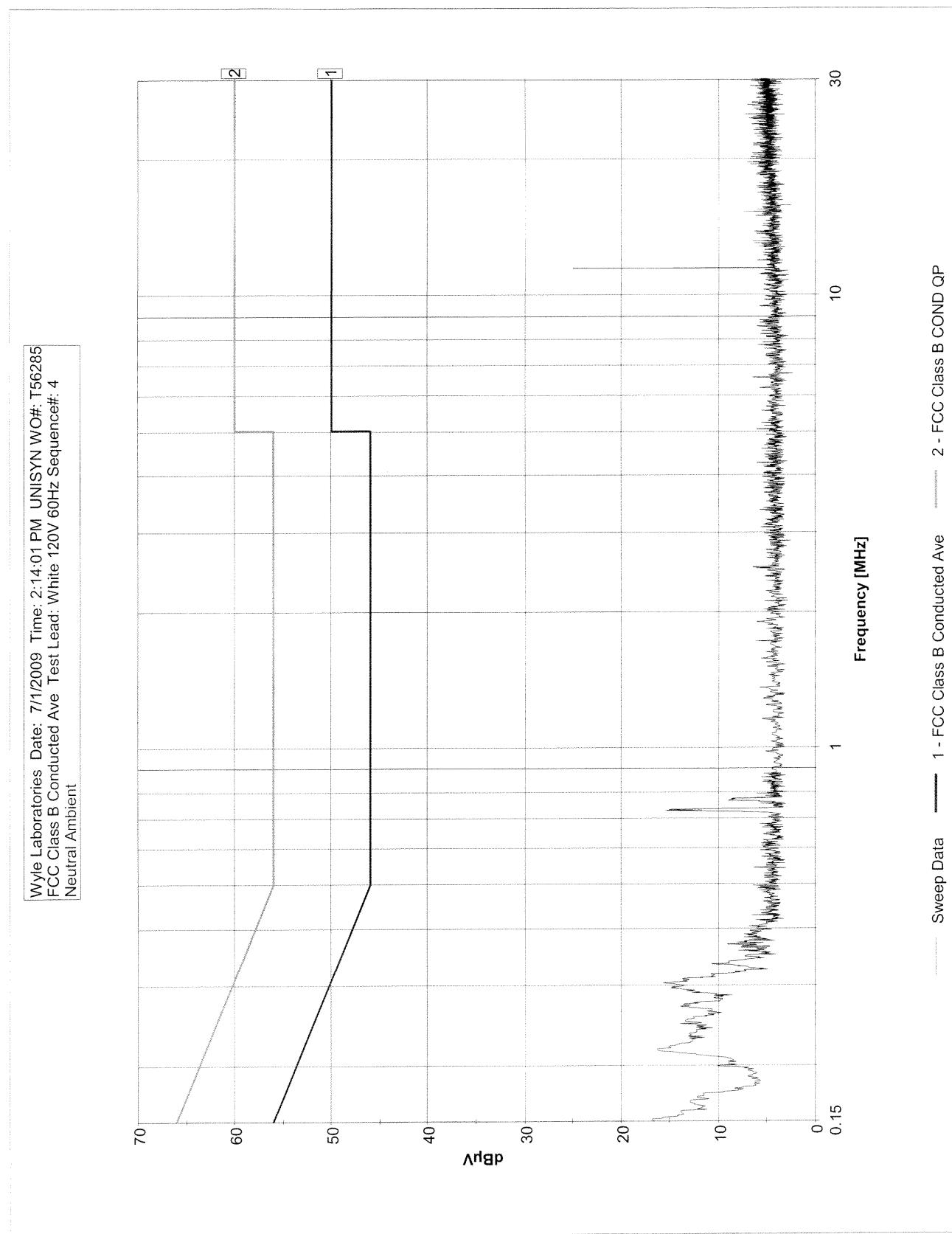
Wyle Laboratories

#	Freq	Rdng dB μ V	T1				Corr dB μ V	Spec dB μ V		Polar	Type	Margin
35	7.742M	5.9	+0.2				6.1	50.0		White	Peak	-43.9
36	8.507M	6.0	+0.2				6.2	50.0		White	Peak	-43.8
37	9.426M	5.7	+0.2				5.9	50.0		White	Peak	-44.1
38	9.453M	5.3	+0.2				5.5	50.0		White	Peak	-44.5
39	9.733M	5.2	+0.2				5.4	50.0		White	Peak	-44.6
40	10.237M	5.3	+0.2				5.5	50.0		White	Peak	-44.5
41	10.516M	5.3	+0.2				5.5	50.0		White	Peak	-44.5
42	10.760M	5.1	+0.2				5.3	50.0		White	Peak	-44.7
43	11.111M	5.8	+0.2				6.0	50.0		White	Peak	-44.0
44	11.417M	24.9	+0.2				25.1	50.0		White	Peak	-24.9
45	11.931M	5.9	+0.3				6.2	50.0		White	Peak	-43.8
46	12.237M	5.2	+0.3				5.5	50.0		White	Peak	-44.5
47	12.390M	5.3	+0.3				5.6	50.0		White	Peak	-44.4
48	12.561M	5.1	+0.3				5.4	50.0		White	Peak	-44.6
49	12.787M	5.7	+0.3				6.0	50.0		White	Peak	-44.0
50	12.850M	5.2	+0.3				5.5	50.0		White	Peak	-44.5
51	12.922M	5.4	+0.3				5.7	50.0		White	Peak	-44.3
52	13.003M	6.2	+0.3				6.5	50.0		White	Peak	-43.5
53	13.129M	6.3	+0.4				6.7	50.0		White	Peak	-43.3
54	13.615M	5.9	+0.4				6.3	50.0		White	Peak	-43.7
55	13.715M	5.9	+0.4				6.3	50.0		White	Peak	-43.7
56	13.805M	6.1	+0.4				6.5	50.0		White	Peak	-43.5
57	14.931M	6.0	+0.4				6.4	50.0		White	Peak	-43.6
58	15.237M	7.2	+0.4				7.6	50.0		White	Peak	-42.4
59	15.318M	4.9	+0.4				5.3	50.0		White	Peak	-44.7
60	15.417M	5.8	+0.4				6.2	50.0		White	Peak	-43.8
61	19.381M	6.2	+0.7				6.9	50.0		White	Peak	-43.1
62	19.516M	5.3	+0.8				6.1	50.0		White	Peak	-43.9
63	19.579M	6.4	+0.8				7.2	50.0		White	Peak	-42.8
64	19.624M	5.8	+0.8				6.6	50.0		White	Peak	-43.4
65	19.922M	6.1	+0.8				6.9	50.0		White	Peak	-43.1
66	20.093M	6.0	+0.8				6.8	50.0		White	Peak	-43.2
67	20.372M	5.8	+0.8				6.6	50.0		White	Peak	-43.4
68	20.534M	5.9	+0.8				6.7	50.0		White	Peak	-43.3
69	20.570M	5.3	+0.8				6.1	50.0		White	Peak	-43.9
70	21.165M	5.2	+0.7				5.9	50.0		White	Peak	-44.1
71	21.336M	5.9	+0.7				6.6	50.0		White	Peak	-43.4
72	21.534M	5.9	+0.7				6.6	50.0		White	Peak	-43.4
73	21.606M	5.5	+0.7				6.2	50.0		White	Peak	-43.8
74	22.327M	5.5	+0.7				6.2	50.0		White	Peak	-43.8
75	22.606M	5.8	+0.7				6.5	50.0		White	Peak	-43.5
76	22.778M	5.2	+0.8				6.0	50.0		White	Peak	-44.0
77	23.066M	5.8	+0.8				6.6	50.0		White	Peak	-43.4
78	23.147M	5.0	+0.8				5.8	50.0		White	Peak	-44.2
79	23.270M	5.6	+0.8				6.4	50.0		White	Peak	-43.6
80	23.743M	5.9	+0.8				6.7	50.0		White	Peak	-43.3
81	23.791M	5.6	+0.8				6.4	50.0		White	Peak	-43.6
82	24.010M	5.2	+0.8				6.0	50.0		White	Peak	-44.0
83	24.079M	5.4	+0.8				6.2	50.0		White	Peak	-43.8
84	24.381M	5.7	+0.9				6.6	50.0		White	Peak	-43.4
85	24.449M	6.1	+0.9				7.0	50.0		White	Peak	-43.0
86	24.504M	5.9	+0.9				6.8	50.0		White	Peak	-43.2
87	24.771M	5.7	+0.9				6.6	50.0		White	Peak	-43.4
88	24.847M	5.4	+0.9				6.3	50.0		White	Peak	-43.7
89	24.895M	5.2	+0.9				6.1	50.0		White	Peak	-43.9
90	25.059M	6.5	+0.9				7.4	50.0		White	Peak	-42.6
91	26.327M	6.3	+0.9				7.2	50.0		White	Peak	-42.8
92	26.402M	5.2	+0.9				6.1	50.0		White	Peak	-43.9
93	26.436M	4.9	+0.9				5.8	50.0		White	Peak	-44.2
94	26.484M	5.2	+0.9				6.1	50.0		White	Peak	-43.9
95	26.601M	5.8	+0.9				6.7	50.0		White	Peak	-43.3
96	26.669M	5.8	+0.9				6.7	50.0		White	Peak	-43.3
97	28.862M	5.4	+1.0				6.4	50.0		White	Peak	-43.6

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Wyle Laboratories

#	Freq	Rdng dB μ V	T1					Corr dB μ V	Spec dB μ V		Polar	Type	Margin
98	28.958M	5.9	+1.0					6.9	50.0		White	Peak	-43.1
99	29.582M	5.8	+1.0					6.8	50.0		White	Peak	-43.2
100	29.740M	5.3	+1.1					6.4	50.0		White	Peak	-43.6
101	29.938M	5.6	+1.1					6.7	50.0		White	Peak	-43.3



ELECTROSTATIC DISRUPTION TEST DATA



DATA SHEET

Job No.: T56285
 Start Date: 7/10/09

Customer:	Unisyn/ILTS	Temperature:	70°	Humidity:	48%
EUT:	OVS	Measurement Point:		See Test Points Below	
Model No.:	---	Interference Signal:		See Applied Level Below	
Serial No.:	EUT4	Frequency Range:		N/A	

Test Title Electrostatic Disruption

Test Points	Meets Limit		Applied Level (kV)	Discharge Type	Times Tested	Comments
	Yes	No				
Vertical Coupling Plane	X		±2,4,6,8	Contact	10	Each Side of EUT (No Discharge)
Horizontal Coupling Plane	X		±2,4,6,8	Contact	10	Each Side of EUT (No Discharge)
OVI All Four Sides	X		±2,4,6,8	Contact	10	(No Discharge)
OVI Front keylock	X		±2,4,6,8	Contact	10	(No Discharge)
OVI Right Side Rear	X		±2,4,6,8	Contact	10	(No Discharge)
OVI Rear RJ45 Cover	X		±2,4,6,8	Contact	10	(No Discharge)
OVI Top Right Rear Corner	X		±2,4,6,8	Contact	10	(No Discharge)
OVI Rear Slot for Remote	X		±2,4,6,8	Contact	10	(No Discharge)
OVI Rear Left AC Cord	X		±2,4,6,8	Contact	10	(No Discharge)
OVI Left Side Rear	X		±2,4,6,8	Contact	10	(No Discharge)
OVI Front LCD Bracket	X		±2,4,6,8	Contact	10	(No Discharge)
OVI Tabletop Ground Plane All Four Sides	X		±2,4,6,8	Contact	10	(No Discharge)
OVI LCD Upper Left Corner	X		±2,4,8,15	Air	10	(No Discharge)
OVI LCD Left Middle Side	X		±2,4,8,15	Air	10	(No Discharge)
OVI LCD Bottom Left Corner	X		±2,4,8,15	Air	10	(No Discharge)
OVI LCD Bottom Middle Side	X		±2,4,8,15	Air	10	(No Discharge)
OVI LCD Right Bottom Corner	X		±2,4,8,15	Air	10	(No Discharge)
OVI LCD Right Middle Side	X		±2,4,8,15	Air	10	(No Discharge)
OVI LCD Upper Right Corner	X		±2,4,8,15	Air	10	(No Discharge)

Notice of Anomaly: N/A

Tested By: W. Bush Date: 7/10/09

Witness: N/A

Technician
Approved: Robert Chang Date: 8/17/09
Project Engineer

Page 1 of 4



DATA SHEET

Job No.: T56285
Start Date: 7/10/09

Customer:	Unisyn/ILTS	Temperature:	70°	Humidity:	48%
EUT:	OVS	Measurement Point:		See Test Points Below	
Model No.:	---	Interference Signal:		See Applied Level Below	
Serial No.:	EUT4	Frequency Range:		N/A	

Test Title Electrostatic Disruption

Test Points	Meets Limit		Applied Level (kV)	Discharge Type	Times Tested	Comments
	Yes	No				
OVI LCD Upper Middle Side	X		±2,4,8,15	Air	10	(No Discharge)
OVI LCD Middle	X		±2,4,8,15	Air	10	(No Discharge)
OVI LCD Middle	X		±2,4,8,15	Air	10	(No Discharge)
OVI LCD Middle	X		±2,4,8,15	Air	10	(No Discharge)
OVI Lower Card Slot	X		±2,4,8,15	Air	10	(No Discharge)
OVI Upper Card Slot	X		±2,4,8,15	Air	10	(No Discharge)
OVI Rear Top Left	X		±2,4,8,15	Air	10	(No Discharge)
OVI Rear Top Right	X		±2,4,8,15	Air	10	(No Discharge)
OVI AC Cord	X		±2,4,8,15	Air	10	(No Discharge)
OVI RJ45 Cover	X		±2,4,8,15	Air	10	(No Discharge)
OVI Keypad Volume +	X		±2,4,8,15	Air	10	(No Discharge)
OVI Keypad Volume -	X		±2,4,8,15	Air	10	(No Discharge)
OVI Keypad Back Button	X		±2,4,8,15	Air	10	(No Discharge)
OVI Keypad Up Button	X		±2,4,8,15	Air	10	(No Discharge)
OVI Keypad Forward Button	X		±2,4,8,15	Air	10	(No Discharge)
OVI Keypad Down Button	X		±2,4,8,15	Air	10	(No Discharge)
OVI Keypad Enter Button	X		±2,4,8,15	Air	10	(No Discharge)
OVI Keypad Tempo -	X		±2,4,8,15	Air	10	(No Discharge)
OVI Keypad Tempo +	X		±2,4,8,15	Air	10	(No Discharge)

Notice of Anomaly: N/A

Tested By: W. Bush Date: 7/10/09

Witness: N/A

Approved: Rabit Aas Date: 8/17/09

Project Engineer

Page 2 of 4



DATA SHEET

Job No.: T56285
Start Date: 7/10/09

Customer:	Unisyn/ILTS	Temperature:	70°	Humidity:	48%
EUT:	OVS	Measurement Point:		See Test Points Below	
Model No.:	---	Interference Signal:		See Applied Level Below	
Serial No.:	EUT4	Frequency Range:		N/A	

Test Title Electrostatic Disruption

Test Points	Meets Limit		Applied Level (kV)	Discharge Type	Times Tested	Comments
	Yes	No				
OVI Keypad Right Side	X		±2,4,8,15	Air	10	(No Discharge)
OVI Keypad Left Side	X		±2,4,8,15	Air	10	(No Discharge)
OVO Front Left	X		±2,4,6,8	Contact	10	(No Discharge)
OVO Bottom Left	X		±2,4,6,8	Contact	10	(No Discharge)
OVO Front Right	X		±2,4,6,8	Contact	10	(No Discharge)
OVO Bottom Right	X		±2,4,6,8	Contact	10	(No Discharge)
OVO LCD Bracket Front	X		±2,4,6,8	Contact	10	(No Discharge)
OVO LCD Bracket Back	X		±2,4,6,8	Contact	10	(No Discharge)
OVO LCD Side	X		±2,4,6,8	Contact	10	(No Discharge)
OVO Ballot Box Power Cord Receptacle	X		±2,4,6,8	Contact	10	(No Discharge)
OVO Ballot Box Access Door Lock	X		±2,4,6,8	Contact	10	(No Discharge)
OVO Key Lock Top	X		±2,4,6,8	Contact	10	(No Discharge)
OVO Ballot Box Back Door Access Lock	X		±2,4,6,8	Contact	10	(No Discharge)
OVO Ballot Box Top Cover	X		±2,4,6,8	Contact	10	(No Discharge)
Vertical Coupling Plane	X		±2,4,6,8	Contact	10	Each Side of EUT (No Discharge)
OVO All Four Sides	X		±2,4,6,8	Contact	10	(No Discharge)
Front Left Key Lock	X		±2,4,8,15	Air	10	(No Discharge)
Front Bottom	X		±2,4,8,15	Air	10	(No Discharge)
Voter Receipt Printer Bottom	X		±2,4,8,15	Air	10	(No Discharge)

Notice of Anomaly: N/A

Tested By: W. Bush Date: 7/10/09

Witness: N/A

Technician Robert Harg Date: 8/17/09
Approved: Robert Harg Date: 8/17/09
Project Engineer

Page 3 of 4



DATA SHEET

Job No.: T56285
Start Date: 7/10/09

Customer:	Unisyn/ILTS	Temperature:	70°	Humidity:	48%
EUT:	OVS	Measurement Point:	See Test Points Below		
Model No.:	---	Interference Signal:	See Applied Level Below		
Serial No.:	EUT4	Frequency Range:	N/A		

Test Title Electrostatic Disruption

Notice of Anomaly: *N/A*

Tested By: N. Banz Date: 7/10/09

Witness: N/A

Technician: *Rachel Fantz* Date: *8/17/09*

WH-1433, Rev. Dec. 2004

ELECTROMAGNETIC SUSCEPTIBILITY TEST DATA



DATA SHEET

Job No.: T56285
Start Date: 7/17/09

Customer:	Unisyn/ILTS	Temperature:	N/A	Humidity:	N/A
EUT:	OVS	Measurement Point:	EUT @ All Four Sides		
Model No.:	---	Interference Signal:	1Khz @ 80% AM		
Serial No.:	EUT4	Frequency Range:	80Mhz to 1Ghz		

Test Title Electromagnetic Susceptibility

Notice of Anomaly: _____ N/A

Witness: N/q

Tested By: W. Bush Date: 7/17/09
Technician
Approved: Ralph Sharpe Date: 8/17/09
Project Engineer

Page 1 of 1

ELECTRICAL FAST TRANSIENT TEST DATA



DATA SHEET

Job No. : T56285

Start Date: 7/21/09

Customer:	Unisyn/ILTS	Temperature:	N/A	Humidity:	N/A
EUT:	OVS	Measurement Point:		See Comments Below	
Model No.:	---	Interference Signal:		Test Signal Applied @ 5/50nS	
Serial No.:	EUT4	Frequency Range:		See Test Frequencies Below	

Test Title Electrical Fast Transient

Notice of Anomaly: N/A

Witness: N/A

Tested By: W. Bush Date: 7/21/09
Technician
Approved: Ralit Shauft Date: 8/17/09
Project Engineer

LIGHTNING SURGE TEST DATA



DATA SHEET

Job No.: T56285

Start Date: 7/7/09

Customer:	Unisyn/ILTS	Temperature:	N/A	Humidity:	N/A
EUT:	OVO	Measurement Point:		See Comments Below	
Model No.:	---	Interference Signal:		Test Signal Applied @ 1.2/50uS	
Serial No.:	UNI00004	Frequency Range:		See Test Frequencies Below	

Test Title: Lightning Surge

Notice of Anomaly: N/A

Witness: N/A

Tested By: W. Bush Date: 7/7/09
Technician
Approved: Ronald Clark Jr. Date: 8/17/09
Project Engineer



DATA SHEET

Job No.: T56285
Start Date: 7/8/09

Customer:	Unisyn/ILTS	Temperature:	N/A	Humidity:	N/A
EUT:	OV1	Measurement Point:		See Comments Below	
Model No.:	---	Interference Signal:		Test Signal Applied @ 1.2/50uS	
Serial No.:	UNI150006	Frequency Range:		See Test Frequencies Below	

Test Title

Lightning Surge

Notice of Anomaly: N/A

Witness: N/A

Tested By: W Bush Date: 7/8/09
Technician
Approved: Rabert Hantz Date: 8/17/09
Project Engineer

CONDUCTED RF IMMUNITY TEST DATA



DATA SHEET

Job No.: T56285

Start Date: 7/21/09

Customer:	Unisyn/ILTS	Temperature:	N/A	Humidity:	N/A
EUT:	OVS	Measurement Point:		See Comments Below	
Model No.:	---	Interference Signal:		1Khz @ 80% AM	
Serial No.:	EUT4	Frequency Range:		150Khz to 80Mhz	

Test Title Conducted RF Immunity

Notice of Anomaly: N/A

Witness: N/A

Tested By: W. Bush Date: 7/21/09
Technician
Approved: Ralbet Hauy Date: 8/17/09
Project Engineer

Page 1 of 1

MAGNETIC FIELDS IMMUNITY TEST DATA



DATA SHEET

Job No.: T56285
Start Date: 7/23/09

Customer:	Unisyn/ILTS	Temperature:	N/A	Humidity:	N/A
EUT:	OVS	Measurement Point:		See Comments Below	
Model No.:	---	Interference Signal:		60Hz at 30 A/m	
Serial No.:	EUT4	Frequency Range:		See Test Frequencies Below	

Test Title Magnetic Fields RF Immunity

Notice of Anomaly: U/A

Witness: _____ N/A

Tested By: W. Bush Date: 7/23/09
Technician
Approved: Robert Day Date: 8/17/09
Project Engineer

Page 1 of 1

ELECTRICAL SUPPLY TEST DATA

DATA SHEET



Customer Unisyn/ILTS

Specimen OVS

Part No. Version 1.0 Amb. Temp. Amb. Job No. T56285

Spec. EAC 2005 VVSG Photo No _____ Report No. T56285-01

Para. 4.1.2.4 Test Med. ----- Start Date 2/10/09

S/N See Below Specimen Temp. Amb.

GSI No

Test Title Electrical Supply Test

Test Parameters:

The purpose of this test is: to ensure that the voting system will continue to provide the capability for any voter who is voting at the time of a failure of the main power external to the voting system to complete the casting of a ballot; to perform a successful shutdown without loss or degradation of the voting and audit data; and to allow voters to resume voting once the voting system has reverted to back-up power. The test shall be performed per the following steps:

Step 1: Configure the system for normal operation.

Step 2: Operate system as designed for fifteen minutes.

Step 3: Remove AC input power.

Step 4: Continuously operate system for at least two hours.

Step 5: Allow system to perform shutdown.

Step 6: Restore AC power and resume operation for an additional fifteen minutes.

Note: Central Count devices must perform a shutdown after removal of external power without loss of data.

Notes:

For testing of the OVI:

- It was verified that the audio ballot was active throughout the 2-hour period.
- A total of five ballots were cast.

For testing of the OVO:

- The test procedure was performed as required.
- The system performed a shutdown

For testing of the OVCS:

- The system performed a shutdown as required with no loss of data.

Tested By Ryan Wilson Date: 12/10/09

Witness _____ Date: _____

Sheet No. 1 of 1

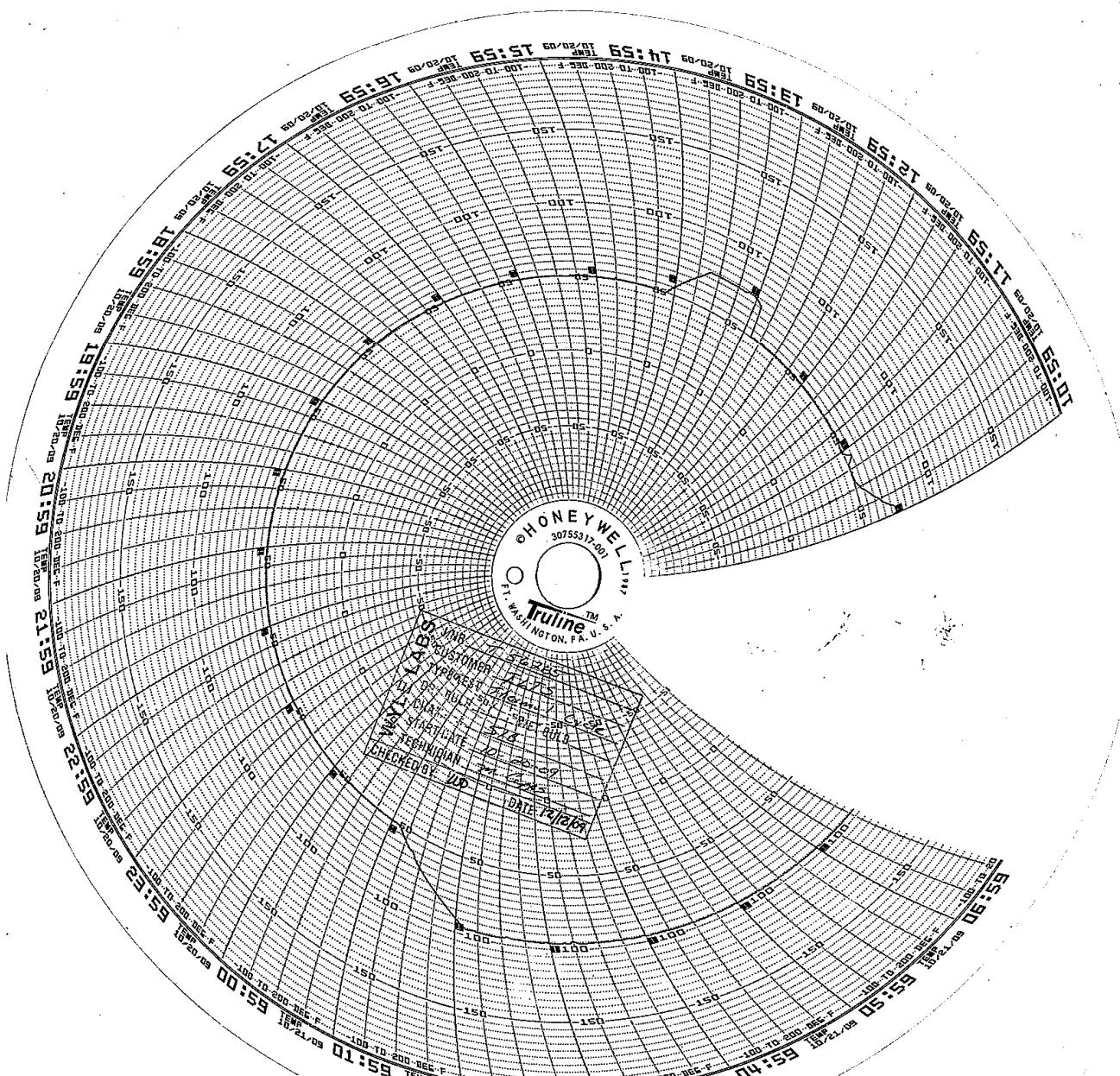
Approved Wendy Owens Date: 12/10/09

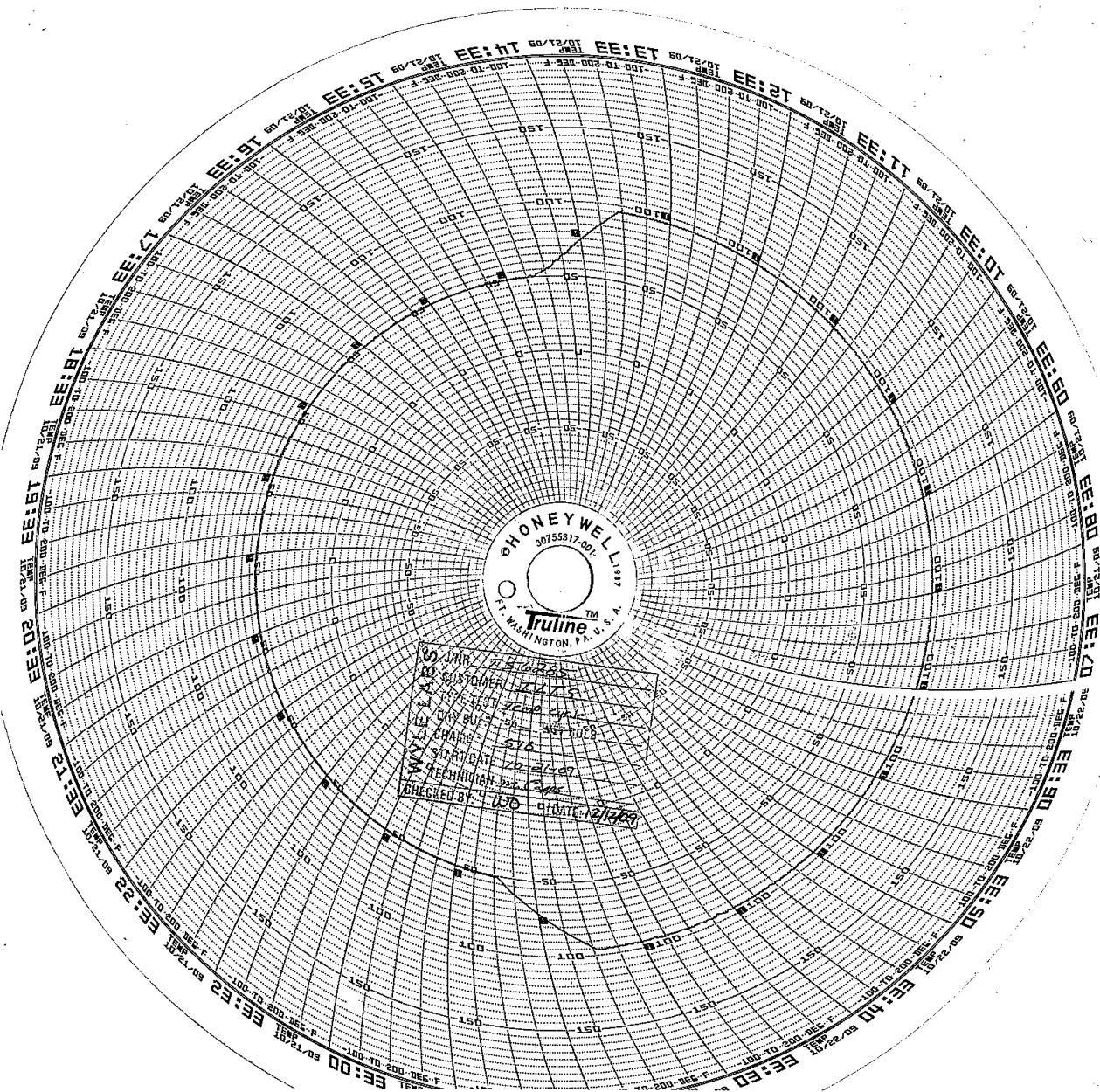
Notice of Anomaly: None

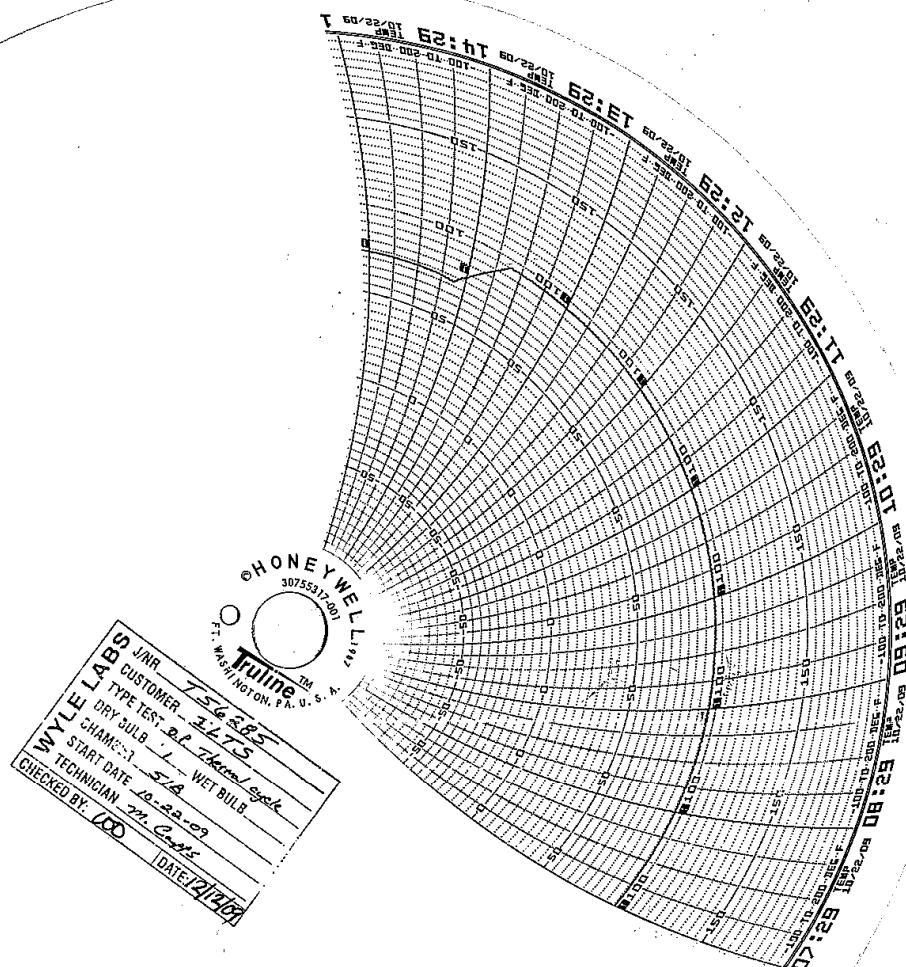
ATTACHMENT E

OPERATING ENVIRONMENTAL TEST DATA

TEMPERATURE/POWER VARIATION TEST DATA







AUDIO TEST DATA

Magnetic Field for Hearing Aid Coupling

Wyle Task No.: T56285

Customer: Unisyn/ILTS

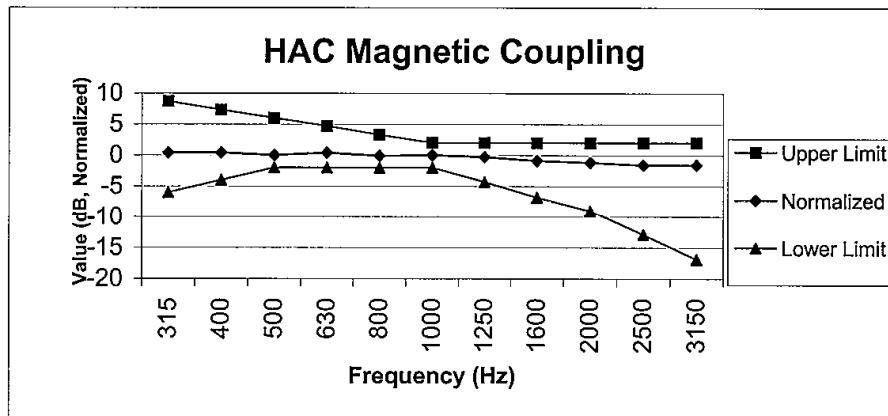
Make/Model: Sony

MDR-210

Enter data in yellow highlighted cells on this sheet only. Use this sheet if Axial 1000 Hz Corrected Reading (green cell) is higher than -15 dB re: 1 A/m; otherwise use other sheet.

Magnetic Field for Hearing Aid Compatibility (HAC) per ANSI C63.19-2007, Section 7.3; @ 94 dB SPL

Axial Measurement				dB re: 1 A/m			
Frequency (Hz)	Measured Level	Calib. Factor	Probe Correction	Corrected Reading	Normalized	Upper Limit	Lower Limit
315	-66.1	-57.68	10	1.58	0.4	8.7	-6
400	-64.1	-57.68	8	1.58	0.4	7.3	-4
500	-62.5	-57.68	6	1.18	0	6	-2
630	-60.1	-57.68	4	1.58	0.4	4.7	-2
800	-58.5	-57.68	1.9	1.08	-0.1	3.3	-2
1000	-56.5	-57.68	0	1.18	OK	2	-2
1250	-54.9	-57.68	-1.9	0.88	-0.3	2	-4.3
1600	-53.3	-57.68	-4.1	0.28	-0.9	2	-6.8
2000	-51.7	-57.68	-6	-0.02	-1.2	2	-9
2500	-50.1	-57.68	-8	-0.42	-1.6	2	-12.9
3150	-48.1	-57.68	-10	-0.42	-1.6	2	-16.9



Radial Measurement				dB re: 1 A/m				
Frequency (Hz)	Measured Level	Calib. Factor	Corrected Reading	Max. Corrected				
1000	-64.1	-57.68	-6.42	(-6.42) OK				
1000	-64.1	-57.68	-6.42					
1000	-64.1	-57.68	-6.42					
1000	-64.1	-57.68	-6.42					

Prepared By: Darin Lee 08/10/09

Rev. AUG '09

HAC-mag_cpl_C63.19-2007 - Hi {> -15 dB (A|m)} Reviewed By: Guy Smith 08/14/09

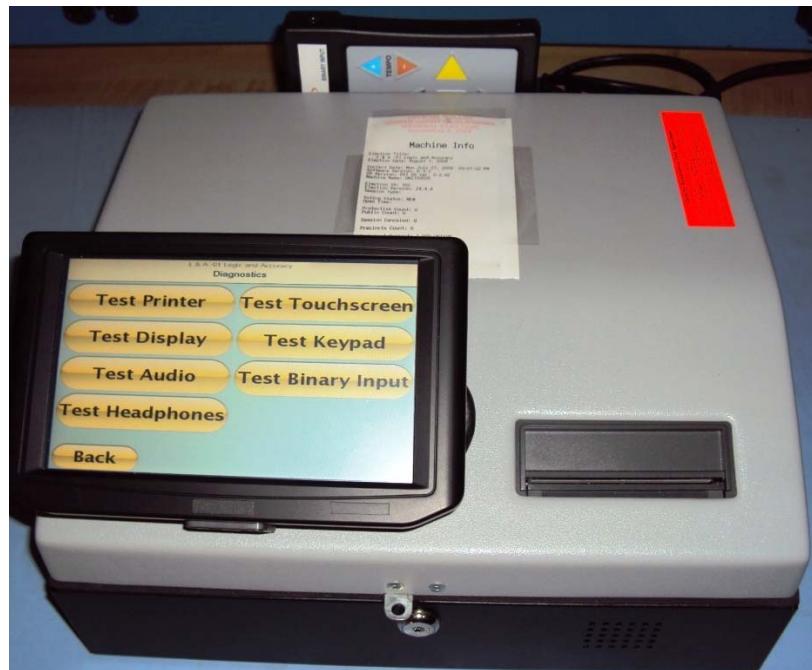
ATTACHMENT F

PRODUCT SAFETY REVIEW DATA

**PRODUCT SAFETY REVIEW
PHOTOGRAPHS**



Photograph No. 1
OpenElect Voting Optical (OVO)



Photograph No. 2
OpenElect Voting Interface (OVI)



Photograph No. 3
OVO Input Current Test Set-up



Photograph No. 4
OVI Input Current Test Set-up



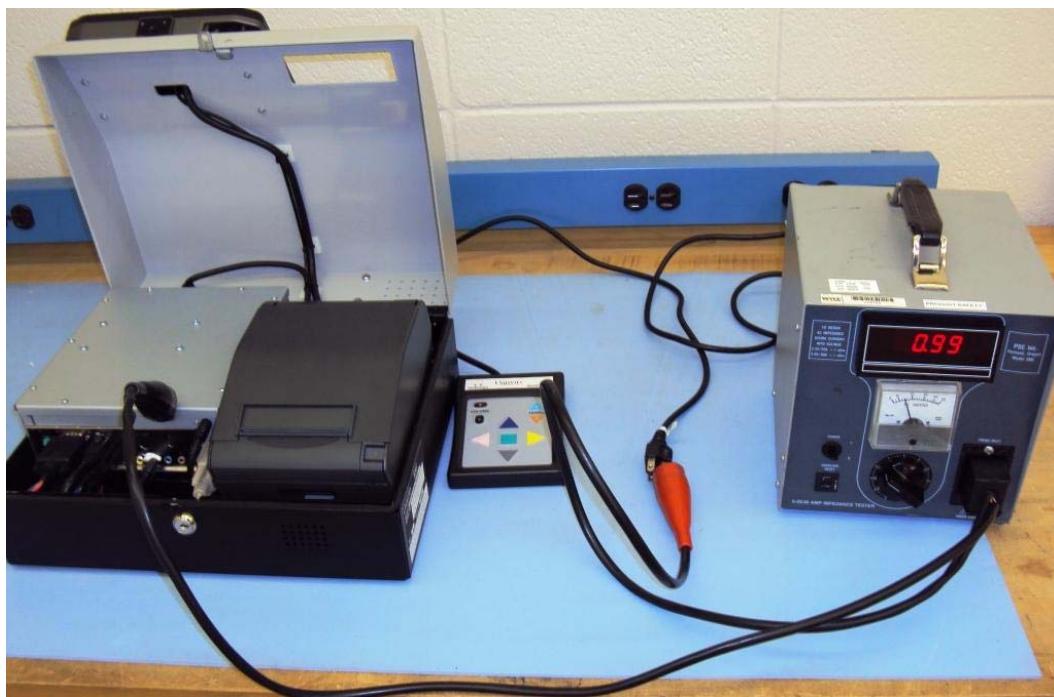
Photograph No. 5
OVO Touch Current Test Set-up



Photograph No. 6
OVI Touch Current Test Set-up



Photograph No. 7
OVO Bonding Resistance Test Set-up



Photograph No. 8
OVI Bonding Resistance Test Set-up



Photograph No. 9
OVO Electric Strength Test Set-up



Photograph No. 10
OVO Electric Strength Test Set-up

**PRODUCT SAFETY REVIEW
SAFETY CRITICAL COMPONENTS**

Safety Critical Components

Object/Device	Manufacturer	Type/Model	Technical Data	Marks of Conformity
AC/DC Power Adapter	MGP	F10903-C	Input: 100-240 VAC, 50/60 Hz Output: 12 VDC @ 6.67 Amps Maximum	UL, CE, FCC
AC/DC Power Adapter	EURASIA	STD-2412P	Input: 100-240 VAC, 50/60 Hz Output: 24 VDC @ 1.25 Amps Maximum	UL Listed, CE
AC/DC Power Adapter	CITIZENS SYSTEMS	EA 1030A2	Input: 100-240 VAC, 50/60 Hz Output: 5-8.5 VDC @ 2.82 Amps Maximum	UL Listed, CE
EMI Filter	Delta Electronics	10BEEG3G	115/250-volts, 50/60 Hz, 10-amps	UL Recognized, & CSA

**PRODUCT SAFETY REVIEW
TEST DATA SHEETS**

LABORATORY TEST DATA SHEET



Customer: ILTS
Specimen: Openelect Voting System

Model Numbers	Openelect Voting Optical & Openelect Voting Interface	Amb. Temp.	25° C	Job. No.	T56285
Serial Numbers	UNI000003 & UNI150005	Photo	Y	Report No.	T56285-06
Spec.	UL 60950-1 2 nd Ed.	Test Med.	N/A	Start Date	10/19/2009
Para.	1.6.2	Specimen Temp.	N/A		

Test Title: Input Current

REQUIREMENT

"The steady state input current of the equipment shall not exceed the rated current by more than 10% under normal load."

Test Performance

The equipment has an input rating of 120 VAC at 60 Hz. The equipment was allowed to run until steady state current had stabilized. The current was then recorded at the rated voltage range per Section 1.6.2.

Openelect Voting Optical			
Test Voltage (AC)	Test Frequency (Hz)	Measured Current (A)	Rated Current (A)
120	60	0.68	1.5 – 7.0

Openelect Voting Interface			
Test Voltage (AC)	Test Frequency (Hz)	Measured Current (A)	Rated Current (A)
120	60	1.20	1.5 – 7.0

Result:

The input current of the EUT was within the manufacturer's published current rating.

Notice of Anomaly None

Tested By Jay Smith Date 10-23-09
Witness N/A Date NA
Sheet No. 1 of 1
Approved Paul M. Reale 10-23-09

LABORATORY TEST DATA SHEET



Customer: ILTS
Specimen: Openelect Voting System

Model Numbers	Openelect Voting Optical & Openelect Voting Interface	Amb. Temp.	<u>25° C</u>	Job. No.	<u>T56285</u>
Serial Numbers	<u>UNI000003 &</u> <u>UNI150005</u>	Photo	<u>N</u>	Report No.	<u>T56285-06</u>
Spec.	<u>UL 60950-1 2nd Ed.</u>	Test Med.	<u>N/A</u>	Start Date	<u>10/19/2009</u>
Para.	<u>1.7.11</u>	Specimen Temp.	<u>N/A</u>		

Test Title: Durability

REQUIREMENT

"Any marking required by this standard shall be durable and legible. In considering the durability of the marking, the effect of normal use shall be taken into account.."

Test Performance:

All labels and markings on the external enclosure were rubbed first by hand with a rag soaked with water for 15 seconds, followed by rubbing by hand with a rag soaked with a petroleum spirit for 15 seconds.

Result:

All labels and markings remained legible, were not easily removable, and showed no signs of curling at the edges which meets the acceptance criteria.

Notice of Anomaly None

Tested By Jay Smith Date 10-23-09
Witness N/A Date NA
Sheet No. 1 of 1
Approved Paul M. Rieck 10-23-09

LABORATORY TEST DATA SHEET



Customer: ILTS
Specimen: Openelect Voting System

Model Numbers	Openelect Voting Optical & Openelect Voting Interface	Amb. Temp.	<u>25° C</u>	Job. No.	<u>T56285</u>
Serial Numbers	UNI000003 & UNI150005	Photo	<u>N</u>	Report No.	<u>T56285-06</u>
Spec.	<u>UL 60950-1 2nd Ed.</u>	Test Med.	<u>N/A</u>	Start Date	<u>10/19/2009</u>
Para.	<u>2.1.1.1</u>	Specimen Temp.	<u>N/A</u>		

Test Title: Access to Energized Parts

REQUIREMENT

"The equipment shall be so constructed that in operator access areas there is adequate protection against contact with energized parts or parts that have the potential to become energized as specified in 2.1.1.1."

Test Performance:

There are no openings in the enclosure of either the Openelect Voting Optical or the Openelect Voting Interface which would allow access to any energized parts.

Result:

No contact could be made with hazardous parts, hazardous voltages, or parts that have the potential to become hazardous as a result of a fault condition using the test finger and test pin on the enclosure.

Notice of Anomaly None

Tested By Jay Smith Date 10-23-09
Witness N/A Date NA
Sheet No. 1 of 1
Approved Frank M Reddell Date 10-23-09

LABORATORY TEST DATA SHEET



Customer: ILTS
Specimen: Openelect Voting System

Model Numbers	Openelect Voting Optical & Openelect Voting Interface	Amb. Temp.	25° C	Job. No.	T56285
Serial Numbers	UNI000003 & UNI150005	Photo	Y	Report No.	T56285-06
Spec.	UL 60950-1 2 nd Ed.	Test Med.	N/A	Start Date	10/19/2009
Para.	2.6.3.3	Specimen Temp.	N/A		

Test Title: Bonding Resistance of Earthing Conductors and Terminals

REQUIREMENT:

"If the current rating of the circuit under test is 16 A or less, the test current, test voltage and the duration of the test are determined as follows:

- the test current is at least two times the current rating of the circuit under test; and
- the test voltage is not to exceed 12 V; and
- the duration of the test is 60-120 s;

and the resistance of the PROTECTIVE BONDING CONDUCTOR, calculated from the voltage drop, shall not exceed 0,1 ohm."

Openelect Voting Optical			
Location	Test Current	Voltage Drop	Results
Ground Pin Of Cord Set To Screw Terminal At Front Of Enclosure	15 Amps	0.99 volts	Pass: (0.066 ohm)
Openelect Voting Interface			
Location	Test Current	Voltage Drop	Results
Ground Pin Of Cord Set To Screw Terminal At Front Of Enclosure	15 Amps	0.99 volts	Pass: (0.066 ohm)

Result:

Measured resistance is within the standard's requirements.

Notice of Anomaly None

Tested By Jay Smith Date 10-23-09
Witness N/A Date NA
Sheet No. 1 of 1
Approved Frank M Reddell 10-23-09

LABORATORY TEST DATA SHEET



Customer: ILTS
Specimen: Openelect Voting System

Model Numbers	Openelect Voting Optical & Openelect Voting Interface	Amb. Temp.	25° C	Job. No.	T56285
Serial Numbers	UNI000003 & UNI150005	Photo	N	Report No.	T56285-06
Spec.	UL 60950-1 2 nd Ed.	Test Med.	N/A	Start Date	10/19/2009
Para.	4.5.2	Specimen Temp.	N/A		

Test Title: Temperature Tests

REQUIREMENT

"Materials used in components and in the construction of the equipment shall be selected so that under normal load, temperatures do not exceed safe values in the meaning of this standard."

Test Performance:

Both units were powered in normal operational mode and remained powered for 16 hours. Temperature measurements were recorded at the locations indicated in the following table. Ambient humidity was 35%.

Start date/time	10/19/09, 16:00		Ambient Temperature and Humidity
Stop date/time	10/20/09, 09:00		25° C, 35% RH
Voltage/Freq.	120 VAC/60Hz		
Position	Recorded temp. (°C)		Tmax (°C)
	OVO	OVI	
Touch Screen	44.0	49.7	
Printer	25.3	30.7	
Transport Media (TM)	38.0	36.0	
Top Lock	28.2	N/A	
Front Lock	23.4	30.8	
AC Switch	27.3	32.3	
AC/DC Adapter	50.2	48.3	
EMI Filter	32.4	37.6	
Ballot Feeder (Top)	36.2	N/A	
Audio Pad	N/A	23.0	65

Notice of Anomaly None

Tested By Jm Smart Date 10-23-09
Witness N/A Date NA
Sheet No. 1 of 1
Approved Frank M. Pachell 10-23-09

LABORATORY TEST DATA SHEET



Customer: ILTS
Specimen: Openelect Voting System

Model Numbers	Openelect Voting Optical & Openelect Voting Interface	Amb. Temp.	25° C	Job. No.	T56285
Serial Numbers	UNI000003 & UNI150005	Photo	Y	Report No.	T56285-06
Spec.	UL 60950-1 2 nd Ed.	Test Med.	N/A	Start Date	10/19/2009
Para.	5.1	Specimen Temp.	N/A		

Test Title: Touch Current and Protective Conductor Current

REQUIREMENT:

"Equipment shall be so designed and constructed that neither touch current nor protective conductor current is likely to create an electric shock hazard."

Test Performance:

Using circuit specified in D1 of Appendix D the following leakage current measurements were recorded:

Openelect Voting Optical			
Polarity	Ground	Conductor	Reading (mA)
Forward	Open	Line	0.371
Forward	Open	Neutral	0.363
Reverse	Open	Line	0.367
Reverse	Open	Neutral	0.364

Openelect Voting Interface			
Polarity	Ground	Conductor	Reading (mA)
Forward	Open	Line	0.546
Forward	Open	Neutral	0.546
Reverse	Open	Line	0.558
Reverse	Open	Neutral	0.539

Result:

Current leakage was measured to be less than maximum level of 3.5mA for stationary equipment per Table 5A in Section 5.1.6.

Notice of Anomaly None

Tested By Jay Smith Date 10-23-09
Witness N/A Date NA
Sheet No. 1 of 1
Approved Frank M. Radell 10-23-09

LABORATORY TEST DATA SHEET



Customer: ITLS
Specimen: Openelect Voting System

Model Numbers	Openelect Voting Optical & Openelect Voting Interface	Amb. Temp.	<u>25° C</u>	Job. No.	<u>T56285</u>
Serial Numbers	<u>UNI000003 &</u> <u>UNI150005</u>	Photo	<u>Y</u>	Report No.	<u>T56285-06</u>
Spec.	<u>UL 60950-1 2nd Ed.</u>	Test Med.	<u>N/A</u>	Start Date	<u>10/19/2009</u>
Para.	<u>5.2.2</u>	Specimen Temp.	<u>N/A</u>		

Test Title: Electric Strength (Hi-pot)

REQUIREMENT:

"There shall be no insulation breakdown during test."

Test Performance:

Gradually apply 1000 VAC in accordance with Table 5B and hold for a duration of 60 seconds.

Openelect Voting Optical		
Location	Test Voltage	Results
Voltage Applied Across Grounding Pin Of The Cord Set And Line/Neutral Shorted Together	1000 VAC	Pass
Openelect Voting Interface		
Location	Test Voltage	Results
Voltage Applied Across Grounding Pin Of The Cord Set And Line/Neutral Shorted Together	1000 VAC	Pass

Result:

No insulation breakdown during test

Notice of Anomaly None

Tested By Jim Smith Date 10-23-09
Witness N/A Date NA
Sheet No. 1 of 1
Approved Frank M. Pachell 10-23-09

**PRODUCT SAFETY REVIEW
INSTRUMENTATION EQUIPMENT SHEET**



INSTRUMENTATION EQUIPMENT SHEET

DATE: 10/19/2009 JOB NUMBER: T56285 TYPE OF TEST PRODUCT SAFETY
TECHNICIAN: J. SMITH CUSTOMER: ILTS TEST AREA: PRODUCT SAFETY LAB

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	CALIPER	CHINA	150	109918	109918	150mm/6in	.001"	9/28/2009	12/28/2009
2	HIPOT TSTR	BIDDLE	230425	254666	110745	5 KV	MFG	8/19/2009	8/19/2010
3	IMP MTR	PSC INC	30D	3166	112726	50AMP	1%	9/9/2009	9/9/2010
4	LEAKAGE TSTR	ED&D	LT-15	B05260061	112404	2mA	1%	6/24/2009	6/24/2010
5	LEAKAGE TSTR	ED&D	LT-952	09980109	114812	2mA	1%	12/23/2008	12/23/2009
6	SCOPEMETER	FLUKE	124	DM9260098	04609	MULTI	CERT	1/8/2009	1/8/2010
7	STOP WATCH	HANHART	STRATOS1	110132	110132	10HR	±0.5sec	3/27/2009	3/27/2010
8	TAPE MEASURER	LUFKIN	HI-VIZ	NSN	04604	26'	±1/32"	2/13/2009	2/13/2010
9	TEMP IND	OMEGA	MDSS41.TC	4203D6	116000	MULTI	±0.2°	9/28/2009	9/28/2010
10	TEMP RECORDER	DICKSON	THDX	6348805	113410	-20-120°F	1.8°F	12/23/2008	12/23/2009
11	THERMOMETER	FLUKE	68	2667260601-0	110762	-25 TO +1400°F	±2°F	8/19/2009	8/19/2010

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION:

Jim Smith 10-19-09

CHECKED & RECEIVED BY:

Wendy Queen 10/19/09

Q.A.:

Jeffrey 10/19/09

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ATTACHMENT G
INSTRUMENTATION EQUIPMENT SHEETS



INSTRUMENTATION EQUIPMENT SHEET

DATE: 7/13/2009 JOB NUMBER: T56285 TYPE OF TEST BENCH HANDLING
TECHNICIAN: D.MEDLEY CUSTOMER: ILTS TEST AREA: DYN LAB

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	RULER	PRODUCTS ENGINEERING	TEMPERED	NSN	04468	48"	±1/32NDS	6/13/2007	6/12/2012

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION:

D. Medley 7/13/09 CHECKED & RECEIVED BY: *Wendy Quince 7/13/09*
Q.A.: *Wyle 7/13/09*

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INSTRUMENTATION EQUIPMENT SHEET

DATE: 7/23/2009 JOB NUMBER: T56285 TYPE OF TEST MAGNETIC FIELDS IMMUNITY
TECHNICIAN: J.MCDERMOTT CUSTOMER: ILTS TEST AREA: EMI LAB

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	AMPLIFIER	TECHRON	7560	015075	04566	600W	NCR	7/8/2008	7/8/2020
2	DMM	FLUKE	87	64860172	112627	MULTI	±0.1%+1	5/19/2009	5/19/2010
3	FUNC GEN	AGILENT	33120A	MY40007922	110432	15 MHz	MFG	3/2/2009	3/2/2010
4	METER	HOLADAY	HOL-HI3604	76285	117549	30-2KHz	MFG	12/17/2007	12/17/2009
5	STOP WATCH	CRONUS	603	115313	115313	24HR 1 EVENT	0.5 SEC	11/11/2008	11/11/2009
6	TAPE MEASURER	LUFKIN	HV1048CME	NSN	02243	26'8m	MFG	11/21/2008	11/21/2009

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION: J.W. 7-23-2009 CHECKED & RECEIVED BY: Darvin Doe 07/23/09
Q.A.: Brenda Moore 7/23/09

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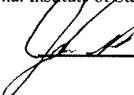
INSTRUMENTATION EQUIPMENT SHEET

DATE: 7/21/2009 JOB NUMBER: T56285
TECHNICIAN: J.MCDERMOTT CUSTOMER: ILTS
TEST AREA: EMI LAB

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	DMM	FLUKE	87 CAT III	80150149	116887	4VDC,AC,Ohms	.05%,1%,.2%	12/23/2008	12/23/2009
2	POWER SOURCE	CALIFORNIA	1251RP/IF	L06361	117347	0-135VAC RMS	1%	8/15/2008	8/15/2009

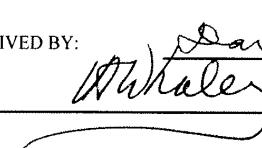
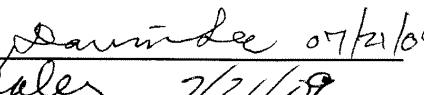
This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION:

 7-21-2009

CHECKED & RECEIVED BY:

Q.A.:

  7/21/09

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INSTRUMENTATION EQUIPMENT SHEET

DATE: 7/20/2009 JOB NUMBER: T56285 TYPE OF TEST: ELECTRICAL FAST TRANSIENT
TECHNICIAN: J.MCDERMOTT CUSTOMER: ILTS TEST AREA: EMI LAB

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	ATTEN	HAEFELY	2520111/00	153823 153808	04590	MFG	MFG	12/19/2007	12/19/2009
2	DMM	FLUKE	87 CAT III	80150149	116887	4VDC,AC,Ohms	.05%,1%,.2%	12/23/2008	12/23/2009
3	EFT JUNIOR TSTR	HAEFELY	093204.1	83762-14	112575	SNS/50NS	30%	10/3/2008	10/3/2010
4	OSCILLOSCOPE	TEKTRONIX	TDS684C	B020598	116832	1GHz BW	<50ps@5GS/s	9/4/2008	9/4/2009
5	TAPE MEASURER	LUFKIN	HV1048CME	NSN	02243	26/8m	MFG	11/21/2008	11/21/2009

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION:

Jdt 7-20-2009

CHECKED & RECEIVED BY:

Davindee 07/20/09

Q.A.:

Bondo

Mar 7/20/09

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INSTRUMENTATION EQUIPMENT SHEET

DATE: 7/21/2009 JOB NUMBER: T56285 TYPE OF TEST CONDUCTED RF IMMUNITY
TECHNICIAN: J.MCDERMOTT CUSTOMER: ILTS TEST AREA: EMI CHAMBER 2

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	AMPLIFIER	AMP RESEARCH	75A220	17801	L17801	10KHZ-200MHZ	NCR	6/26/2009	6/26/2010
2	ATTEN	BIRD	25-T-MN	0129	03142	50 OHMS 25 W.	MFG	3/25/2008	3/25/2010
3	ATTENUATOR	NARDA	769-6	03180	04860	DC to 6GHz	MFG	11/18/2008	11/18/2009
4	COUPL NETWK	FISHER CC	FCC-801-M3-25A	06066	04606	.15-230MHz	±.4dB	5/4/2009	5/4/2010
5	DIR COUPLER	AMP RESEARCH	DC3010	304022	117208	.01-1000MHz	±0.8dB	3/23/2009	3/23/2010
6	DMM	FLUKE	87 CAT III	80150149	116887	4VDC,AC,Ohms	.05%,1%,.2%	12/23/2008	12/23/2009
7	PASSIVE	FISHER CC	FCC-801-150-50-CDN	04049/04050	110405	150KHZ - 230M	MFG	5/18/2009	5/18/2011
8	SIG GEN	WAYNE KERR	PSG1000B	295	114979	10K-1GHZ	2x10-7	4/20/2009	4/20/2010
9	SPEC ANAL	AGILENT	E4446A	US42070108	110948	44 GHz	CERT	6/11/2009	6/11/2010
10	SPEC ANAL	AGILENT	E446A/H70	US44020335	03123	MFG	MFG	3/30/2009	3/30/2010
11	TAPE MEASURER	LUFKIN	HV1048CME	NSN	02243	26'/8m	MFG	11/21/2008	11/21/2009

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION: Johny 7-21-2009 CHECKED & RECEIVED BY: Darrielle 07/21/09
Q.A.: ATL Haley 7/21/09
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INSTRUMENTATION EQUIPMENT SHEET

DATE: 7/17/2009 JOB NUMBER: T56285 TYPE OF TEST: ELECTROMAGNETIC SUSCEPTIBILITY
TECHNICIAN: J.MCDERMOTT CUSTOMER: UNISYN TEST AREA: EMI CHAMBER 3

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	AMPLIFIER	AMP RESEARCH	500W/000A	25361	03141	80MHz to 1GHz	NCR	7/8/2008	7/8/2020
2	ANTENNA	AR	AT6080	0330329	02247	80-6000MHz	MFG	12/10/2008	12/10/2010
3	DIR COUPLER	AMP RESEARCH	DC6080	21207	113788	80-1000MHZ	.5db	3/20/2009	3/20/2010
4	DMM	FLUKE	87 CAT III	80150149	116887	4VDC,AC,Ohms	.05%,1%,2%	12/23/2008	12/23/2009
5	ISOTROPIC PROBE	AMP RESEARCH	FP2000	17657	L17657	10 KHz - 1 GHz	±0.7 dB	9/5/2008	9/5/2009
6	SIG GEN	MARCONI	2023	112224/092	L12224	9kHz-1.2GHz	±0.8dB	5/11/2009	5/11/2010
7	SPEC ANAL	ROHDE SCHWARZ	FSP30	100882	117804	MULTI	MFG	4/20/2009	4/20/2010
8	TAPE MEASURER	LUFKIN	HV1048CME	NSN	02242	26'/8m	MFG	11/21/2008	11/21/2009

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION:

7-17-2009

CHECKED & RECEIVED BY:

Q.A.:

7/17/09

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INSTRUMENTATION EQUIPMENT SHEET

DATE: 7/7/2009 JOB NUMBER: T56285
TECHNICIAN: J.MCDERMOTT CUSTOMER: UNISYN

TYPE OF TEST LIGHTING SURGE
TEST AREA: EMI LAB

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	COUPL NETWK	HAEFELY TRENCI	PCD100	149869	R90540	MFG	MFG	5/21/2009	5/21/2010
2	OSCILLOSCOPE	TEKTRONIX	TDS684C	B020598	116832	1GHz BW	<50ps@5GS/s	9/4/2008	9/4/2009
3	SURGE TSTR	HAEFELY TRENCI	PSURGE8000	150270	R90537	MULTI	MFG	5/21/2009	5/21/2010

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION: J.L.S. 7-7-2009 CHECKED & RECEIVED BY: W. Bush 7/7/09

Q.A.: Bonda Mo 7/7/09



INSTRUMENTATION EQUIPMENT SHEET

DATE: 7/10/2009 JOB NUMBER: T56285 TYPE OF TEST ESD
TECHNICIAN: P.BREWINGTON CUSTOMER: UNISYN TEST AREA: PRODUCT SAFETY

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	CHART RECORDER	OMEGA	CT485B	60507010	04492	-200 +200°F	±3%	12/15/2008	12/15/2009
2	ESD GUN	PARTNER	ESD3000	059	04446	16.5 KV	±10%	3/31/2009	3/31/2010
3	ESD TARGET	HAEFELY TRENCI	2520311	152461	110794	15KV	±5%	10/25/2007	10/25/2009
4	OSCILLOSCOPE	TEKTRONIX	TDS684C	B020598	116832	1GHz BW	<50ps@5GS/s	9/4/2008	9/4/2009

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION: Patricia Brewington CHECKED & RECEIVED BY: David Lee 07/10/09
WH-1029A, REV, APR'99 07/10/09 Q.A.: Wyle 07/10/09

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INSTRUMENTATION EQUIPMENT SHEET

DATE: 7/1/2009 JOB NUMBER: T56285 TYPE OF TEST: VVSG/FCC PART 15
TECHNICIAN: J SMITH CUSTOMER: UNISYN TEST AREA: OATS 2

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	ANTENNA	EMCO	EM-6917A-1	124116	114415	30MHZ - 3GHZ SEE DATA		1/9/2008	1/9/2010
2	LISN	FISHER CC	FCC-LISN-50-15-1-01	02067	117145	10KHz to 100MHz ±0.7dB		7/5/2007	7/5/2009
3	LISN	FISHER CC	FCC-LISN-50-15-1-01	02068	117146	10KHz to 100MHz ±0.7dB		7/17/2007	7/17/2009
4	LISN	FISHER CC	FCC-LISN-50/250-16	04001	110238*	9kHz to 30MHz ±0.7dB±5%		5/21/2009	5/21/2010
5	PRESELECTOR	HP	85685A	2648A00447	113853*	20HZ-2GHZ ±2dB		2/25/2009	2/25/2010
6	Q-PEAK ADAPTER	HP	85650A	2811A01189	112109*	BY PASS MODI .3db		2/25/2009	2/25/2010
7	RF CABLE	STORM	90-195-610	01-04-001	110111*	.001-40 GHz ±3 dB		3/21/2007	3/21/2010
8	SPEC ANAL	HP	8566B	3014A06704	117093 *	100HZ-22GHZ CERT		2/16/2009	2/16/2010

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION:

7-1-09

CHECKED & RECEIVED BY:

7-1-09

Q.A.:

7-1-09

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INSTRUMENTATION EQUIPMENT SHEET

DATE: 7/17/2009 JOB NUMBER: T56285
TECHNICIAN: LARRY IVEY CUSTOMER: ILTS TEST AREA: ENV CHAMBER 7

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	MICROCOMPUTER	THERMOTRON	3038	7626-TP	114130	-125 - 375°F	.1.0%	6/5/2009	9/5/2009
2	TEMP ALARM	THERMOTRON	12005	263002	094751	-125-375°F	.25%	6/5/2009	9/5/2009
3	TEMP RECORDER	HONEYWELL	DR4500	9628Y626294'	112722	-200-600°F	.4°F	6/5/2009	9/5/2009

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION: Larry Ivey 7/17/09

CHECKED & RECEIVED BY:

Q.A.: Wendy Owens 7/17/09

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Wendy Owens 7/17/09
7/17/09

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INSTRUMENTATION EQUIPMENT SHEET

DATE: 7/13/2009 JOB NUMBER: T56285 TYPE OF TEST VIBRATION
TECHNICIAN: D.MEDLEY CUSTOMER: ILTS TEST AREA: DYN LAB

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	ACCELEROMETER	ENDEVCO	7704A-50	12608	04868	50pC/g	±5%	6/15/2009	9/13/2009
2	ACCELEROMETER	ENDEVCO	7704A-50	12607	04869	50pC/g	±5%	6/15/2009	9/13/2009
3	CHARGE	ENDEVCO	2735	GZ10	000860	GAIN	1.5%	4/14/2009	10/14/2009
4	CHARGE	ENDEVCO	2735GPQS	FM64	113405	GAIN	1.5%	4/15/2009	10/12/2009
5	DMM	KEITHLEY	179A	196804	101203	1200VDC	±.04%DC	1/5/2009	1/5/2010
6	VIB CONTROL	SPECTRAL DYNAL	2400	1657	116969	MFG	MFG	3/6/2009	3/6/2010

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION:

Don Medley 7/13/09

CHECKED & RECEIVED BY:

Wendy Queen 7/13/09

Q.A.:

John H. Miller

7/13/09

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INSTRUMENTATION EQUIPMENT SHEET

DATE:

11/13/2009

JOB NUMBER: T56285

TYPE OF TEST ACOUSTIC VOLUME LEVEL

TECHNICIAN: D. LEE

CUSTOMER: UNISYN/ILTS

TEST AREA: EMI CHAMBER 3

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	SOUND LVL MTR	EXTECH	407736	010305516	116831	35-130 dB	±1.5dB	12/26/2008	12/26/2009

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION: Darvin Lee 11/13/09 CHECKED & RECEIVED BY: Jeff Smith 11/13/09

Q.A.: Wyle 11/13/09

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INSTRUMENTATION EQUIPMENT SHEET

DATE: 12/10/2009 JOB NUMBER: T56285 TYPE OF TEST ELECTRICAL SUPPLY
TECHNICIAN: R. WILSON CUSTOMER: UNISYN/ILTS TEST AREA: VOTING LAB 3

No.	Description	Manufacturer	Model	Serial #	WYLE #	RANGE	ACCURACY	Cal Date	Cal Due
1	STOP WATCH	HANHART	STRATOS1	110131	110131	10HR	±0.5sec	11/11/2009	2/11/2010

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION: Myron Trice 12/10/09 CHECKED & RECEIVED BY: Wendy Owens 12/10/09
Q.A.: Brenda Moore 12/10/09