Test Report



Report No EJ1387-1

> Client Learning Curve Brands, Inc

Address 1111 West 22 St. Suite 320

Oak Brook, IL 60523

Phone (630) 573-7200

Premium Digital Monitor - Parent Unit Items tested

BMWTFY7292P FCC ID IC ID 6195A-TFY7292P **FRN** 0015520463

Equipment Type Digital Transmission System

Equipment Code DTS

FCC/IC Rule Parts 47 CFR 15.247, RSS 210 issue 7 and RSS GEN issue 2

Test Dates October 6-9, 2009

> Results As detailed within this report

Matthew Burman – Test Engineer Prepared by

Mairaj Hussain – EMC Supervisor Authorized by

Issue Date Oct 16-2009

Conditions of Issue This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 33 of this report.

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Form Final Report REV 7-20-07 (DW)



Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.247 and RSS-210. The product is the Premium Digital Monitor Model Y7292P - Parent Unit. It is a transmitter that operates in the range 2405-2480MHz.

We found that the product met the above requirements without modification. Ronald Pace from Learning Curve Brands, Inc. was present during the testing. The test sample was received in good condition.

There are four SKUs or models for the new line of Wireless Digital Audio Monitors. All of these models are based on 1 (one) master or universal hardware and software design. The models are broken down as follows;

- 1) SKU# Y7289 One Model Y7289C CHILD unit with One Model Y7289P PARENT unit. Voice transmission is a one-way flow from the CHILD unit to the PARENT unit.
- 2) SKU# Y7290 One Model Y7289C CHILD unit with Two Model Y7289P PARENT units. This is the same as SKU# Y7289 with an added PARENT unit in the box.
- 3) SKU# Y7291 One Model Y7291C CHILD unit with One Model Y7291P PARENT unit. Voice transmission is mainly a one-way flow from the CHILD unit to the PARENT unit (normal operation), exactly the same as the Y7289C to Y7289P models. This Y7291P Parent unit has the addition of one push-to-talk (PTT) button that when depressed will change the direction of the voice transmission, from PARENT to CHILD. The hardware and software is identical to all other models.
- 3) SKU# Y7292 One Model Y7291C CHILD unit with Two Model Y7292P PARENT units. Voice transmission is mainly a one-way flow from the CHILD units to the PARENT units (normal operation), exactly the same as the Y7289C to Y7289P and Y7291C to Y7291P models. This Y7292P Parent unit has the addition of two push-to-talk (PTT) buttons so that when either button is depressed; there will be a change in the direction of the voice transmission, from

Release Control Record Issue No. Reason for change

Original Release

Date Issued October 16, 2009





PARENT to CHILD or PARENT to other PARENT. The hardware and software is identical to all other models.

By choosing the master or universal model to test (Y7292P), all other models are represented as there are no differences in hardware and software.

Test Methodology

Radiated emission and AC Line conducted testing was performed according to the procedures specified in ANSI C63.4 (2003) and RSS-GEN. Test guidance for radiated emissions, conducted was also taken from FCC documentation: New guidance on measurements for digital transmission systems in section 15.247, along with the marker-delta method. Radiated Emissions were maximized by rotating the device around three orthogonal axes as well as varying the test antenna's height and polarity. The device antenna cannot be maximized separately.

Conducted emission at the antenna port was performed, as required by rule section.

The EUT operating voltage is 120Vac 60Hz for AC power, and +4.5Vdc for battery operation.

During AC line conducted emissions testing, a $50\Omega/50\mu H$ LISN was used for voltage measurements.

The environmental conditions are shown below.

Date	Temperature	Humidity
October 6, 2009	24.3ºC	31%
October 7, 2009	23.5ºC	38%
October 8, 2009	20ºC	35%
October 9, 2009	21.4ºC	37%

The following bandwidths were used during radiated spurious and line conducted emissions.

Frequency	RBW	VBW
0.15-30MHz	9kHz	30kHz
30-1000MHz	120kHz	1MHz
1-25GHz	1MHz	3MHz

Release Control Record

Issue No. Reason for change

1 Original Release

Date Issued
October 16, 2009

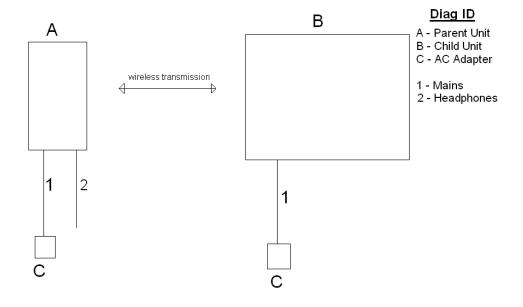




Product Tested - Configuration Documentation

				EUT Co	nfigurati	on				
Company Address	Learning Cu 1111 West 2 Oak Brook, Rachael Sha	IL 60523 agott								
		MN		FCC ID		IC ID		SN		
EUT PS		Y7292P U060030D12		BMWTFY7292	P 61	95A-TFY729	2P	Sample 1 Sample 1		
EUT Description EUT Tx Frequency EUT Max Frequency	: 2405-2480N		arent Unit							
Support Equipment:		MN						SN		
None										
EUT Ports:										
Port Label	Port Type	No. of ports	No. Populated	Cable Type	Shielded	Ferrites	Length	Max Length	In/Out NEBS Type	Unpopulated Reason
DC Power	Power	1	all	2-wire	no	no	2m	2m	indoor	
Headphones	Audio	1	1	audio	no	none	1m	2m	indoor	
Software / Operating Mode Desc	ription:									
The EUT continues to transmit aud	io between th	e parent and ch	nild units on o	channels 1-16 in	2405-2480	MHz O-QPSK				
Performance Criteria:										
Performance Criteria: EUT continues to transmit voice an	d sound betw	een the parent	and child uni	t without deared	dation in voic	e quality and	the link he	tween the uni	te chall etay activ	/0

Test Set-up Diagram







Statement of Conformity

The Premium Digital Monitor - Parent Unit has been found to conform to the following parts of 47 CFR and RSS 210 as detailed below:

RSS-GEN	RSS 210	Part 15	Comments
5.3	1100 210	15.15(b)	There are no controls accessible to the user that
5.5		13.13(b)	varies the output power.
5.2		15.19	The label is shown in the label exhibit.
7.1.5		15.21	Information to the user is shown in the instruction
7.1.5		15.21	manual exhibit.
		15.27	No special accessories are required for compliance.
		15.31	The EUT was tested in accordance with the
			measurement standards in this section.
		15.33	Frequency range was investigated according to
			this section, unless noted in specific rule section
			under which the equipment operates.
		15.35	The EUT emissions were measured using the
			measurement detector and bandwidth specified in
			this section, unless noted in specific rule section
			under which the equipment operates.
7.1.4		15.203	The antenna for this device is hardwired to the PCB.
	2.6	15.205	The fundamental is not in a Restricted band and
		15.209	the spurious and harmonic emissions in the
			Restricted bands comply with the general emission
			limits of 15.209.
7.2.2		15.207	EUT meets the AC Line conducted emissions
			requirements of 15.207.
	Annex 8	15.247	The unit complies with the requirements of 15.247
4.6.1			Occupied Bandwidth measurements were made.





Test Results

Bandwidth

LIMIT

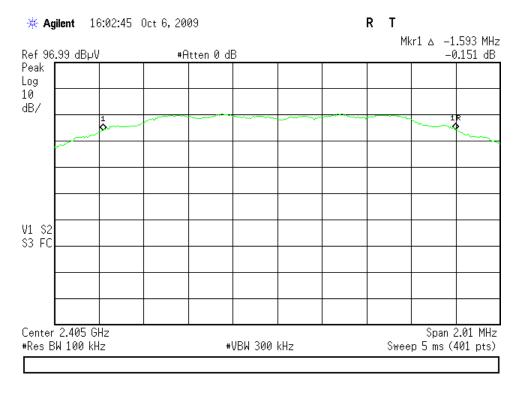
The minimum 6 dB bandwidth shall be at least 500 kHz. [15.247(a) (2)]

MEASUREMENTS / RESULTS

Date:	06-Oct-09		Company:	Learning C	Curve	Work Order: J1387				
Engineer:	Matthew Burm	an	EUT Desc: Parental Unit			EUT Operating Voltage/Frequency: 120Vac 60Hz				
Temp:	: 23.4℃ Humidity: 31%									
	Freque	ency Range	: 2400-2483	.5MHz		Me	asurement Distance:	Conductive		
Notes:	6dB bandwidth Peak Output P	-	30dB of ex RBW: 100k		utation VBW: 300l	kHz				
Antenna							FCC §	15.247a (2)		
Polarization (H / V)	Frequency (MHz)	Reading (MHz)					Limit (MHz)	Result (Pass/Fail)		
Low Channel Mid Channel High Channel	2405.0 2440.0 2480.0	1.5930 1.5980 1.5730					0.5 0.5 0.5	Pass Pass Pass		

PLOT

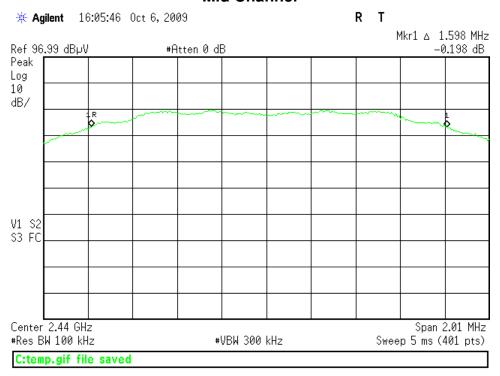
Low Channel



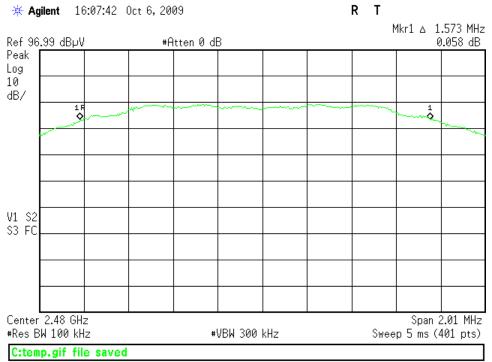




Mid Channel



High Channel







Peak Power

LIMIT

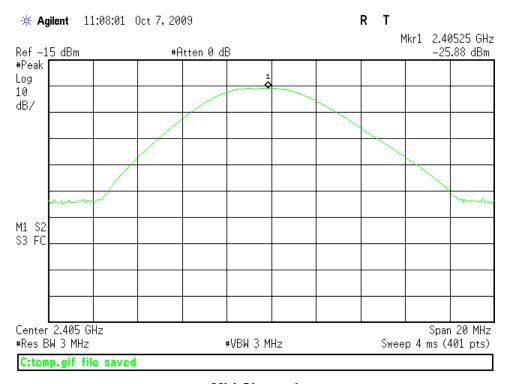
Conducted Output Power 1 Watt [15.247(b) (3)]

MEASUREMENTS / RESULTS

Date:	07-Oct-09		Company	: Learning Cur	ve						Work Order:	J1387			
Engineer: Matthew Burman EUT Desc: Parent										EUT Operating Vol	Itage/Frequency:	120Vac 60Hz			
Temp:	23.5℃		Humidity:	38%											
	Freque	ency Range	: 2400-2483	3.5MHz					Meas	surement Distance: C	Conductive				
Notes:	Peak Output P	ower Option	1 used						limi	t of 1 Watt = 30dBm					
Antenna		Desetion .			Antenuator	Cable	Adjusted				FCC 15.247 (b[3])				
Polarization (H / V)	Frequency (MHz)	Reading (dBm)		Factor (dB)	Factor (dB)	Reading (dBm)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBm)	Margin (dB)	Result (Pass/Fail			
low channel	2405.0	-25.88		30.0	2.4	6.52				30.0	-23.48	Pass			
mid channel	2440.0	-26.16		30.0	2.4	6.24				30.0	-23.76	Pass			
high channel	2480.0	-26.35		30.0	2.4	6.05				30.0	-23.95	Pass			
Tabi	e Result:	Pass	by	-23.1	dB					Worst Freq:	2405.0	MHz			
Tabi Test Site:		Pass		-23.1 EMIR-HIGH-						Worst Freq:	2405.0	MHz			

PLOTS

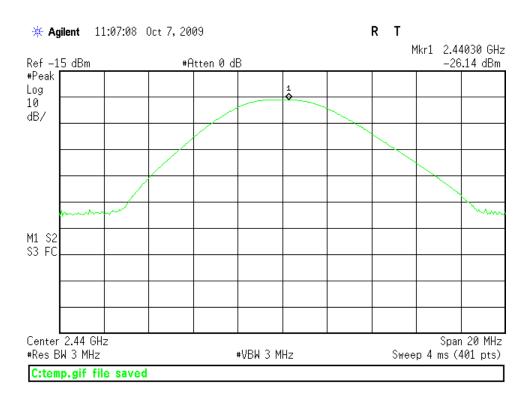
Low Channel



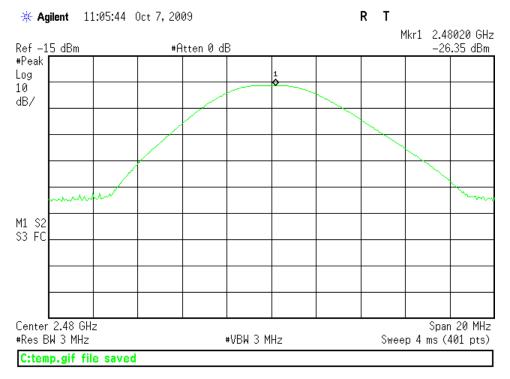
Mid Channel







High Channel







Band Edge Measurements

LIMITS

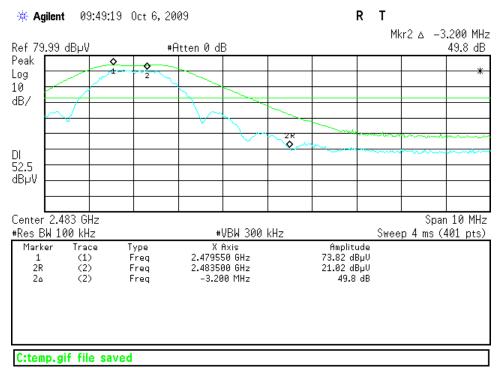
Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). [15.247(d)]

MEASUREMENTS / RESULTS

Radiated	Emissio	ns Tabl	е												
Date:	06-Oct-09			Company:	Learning Curve								Work Order:	J1387	
Engineer:	Matthew Burm	an		EUT Desc:	Parental Tx							EUT Operating \	/oltage/Frequency:	120Vac 60Hz/ Battery	
Temp:	24.3℃			Humidity:	31%										
		Freque	ency Range:	Band Edge	2400-2483.5MHz						Mea	surement Distance:	1 m		
Notes:											FCC Part 15.247 (c				
Antenna		Peak	Average	Preamp	Antenna	Cable	Adjusted	Adjusted	FCC Cla	ss B High Frequen	cy - Peak	FCC Cla	ss B High Frequen	cy - Average	
Polarization	Frequency	Reading	Reading	Factor	Factor	Factor	Peak Reading	Avg Reading	Limit	Margin	Result	Limit	Margin	Result	
(H / V)	(MHz)	(dBµV)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)	
Low Channel															
Н	2400.0	28.94	18.9	0.0	28.8	2.8	60.5	50.5	83.5	-23.0	Pass	63.5	-13.0	Pass	
High Channel - m															
Н	2483.5	24.02	23.2	0.0	28.9	2.9	55.8	55.0	83.5	-27.7	Pass	63.5	-8.5	Pass	
Tab	le Result:		Pass	by	-8.5	dB						Worst Freq:	2483.5	MHz	
	EMI Chamber Asset #1327	1		Cable 1: Preamp:	Asset #1505 none		Cable 2: Asset #1507 Antenna: Orange Horn								

PLOTS

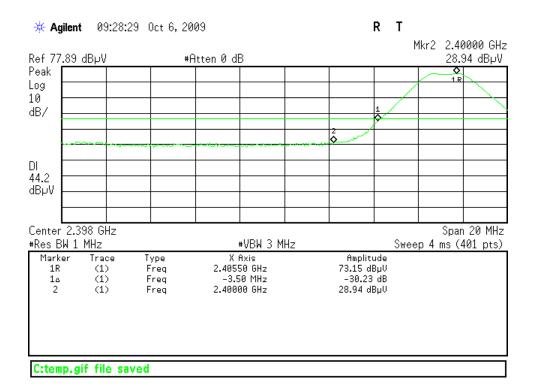
High Channel – Marker-Delta Method







Low Channel





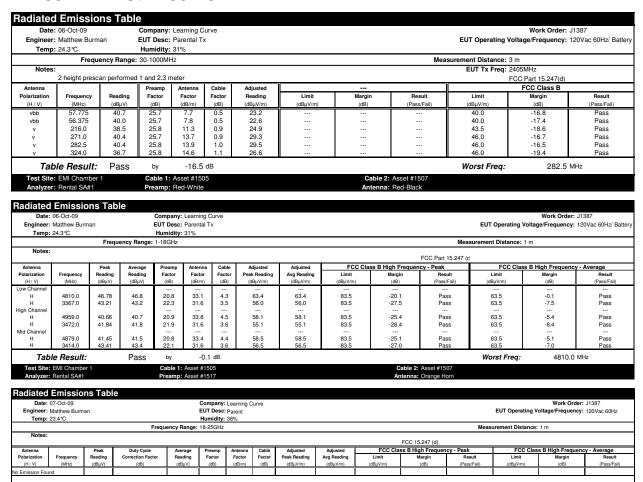


Radiated Spurious Emissions

LIMITS

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). [15.247(d)]

MEASUREMENTS / RESULTS



Test data is without headphone populated, upon retesting with headphone populated no new emissions were found along with emission levels being equal.





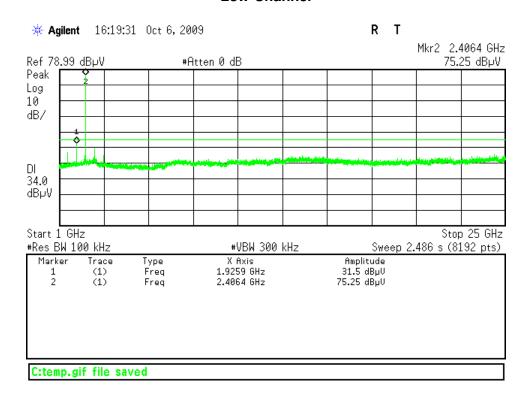
Conducted Spurious Emissions

LIMITS

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth that contains the highest level of desired power...
[15.247(d)]

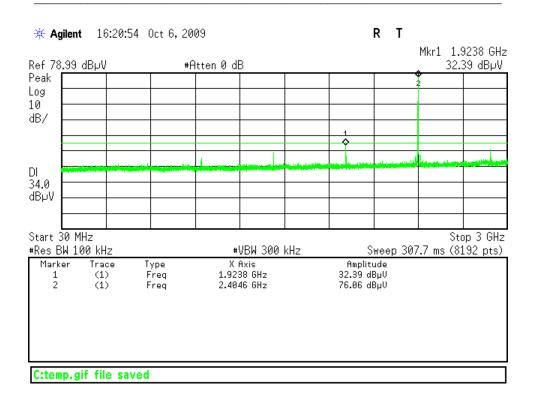
MEASUREMENTS / RESULTS

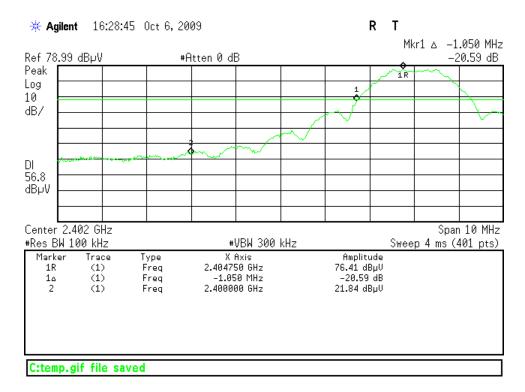
Low Channel







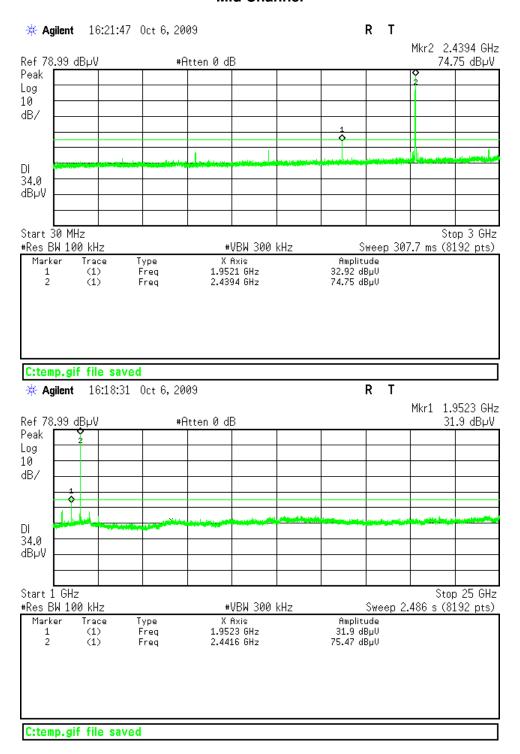








Mid Channel







High Channel * Agilent 16:22:35 Oct 6, 2009 R T Mkr1 1.9800 GHz Ref 78.99 dB µV #Atten 0 dB 33.04 dBµV Peak Log 10 dB/ DI 34.0 dBµV Stop 3 GHz Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 307.7 ms (8192 pts) Marker Trace Type X Axis Amplitude (1) Freq 1.9800 GHz 1 (1) Freq 2.4746 GHz 74.66 dBµV C:temp.gif file saved * Agilent 16:17:25 Oct 6, 2009 R Τ Mkr2 2.4797 GHz 74.99 dB µV Ref 78.99 dB µV #Atten 0 dB Peak Log 10 dB/ DI 34.0 dBµV Start 1 GHz Stop 25 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.486 s (8192 pts) Type Freq Marker X Axis Amplitude Trace 32.74 dBµV 1.9845 GHz (1) (1) Freq 2.4797 GHz 74.99 dBµV C:temp.gif file saved





R T * Agilent 16:27:24 Oct 6, 2009 Mkr2 2.483500 GHz Ref 78.99 dB UV #Atten 0 dB 22.47 dBpV Peak Log 10 dB/ DI 56.8 dBµV Center 2.483 GHz Span 10 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts) X Axis 2.480275 GHz 1.050 MHz Marker Trace Type Freq Amplitude (1) (1) 75.74 dBµV -21.12 dB 1R 1₀ Freq (1) Freq 2.483500 GHz 22.47 dBµV C:temp.gif file saved





Power Spectral Density

LIMIT

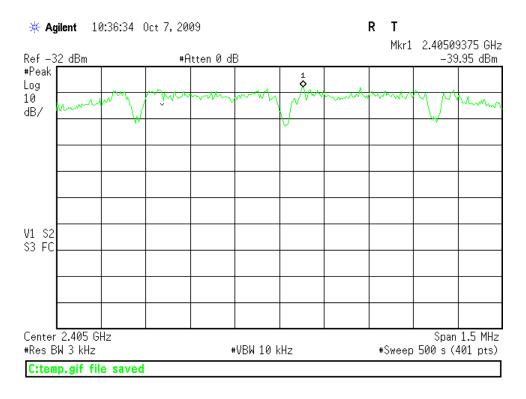
...the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission. [15.247(e)]

MEASUREMENTS / RESULTS

Power Sp	pectral De	ensity										
Date:	07-Oct-09		Company:	Learning Cur	rve						Work Order:	J1387
Engineer:	Matthew Burm	an	EUT Desc:	Parent						EUT Operating Vol	tage/Frequency:	120Vac 60Hz
Temp:	23.5℃		Humidity:	38%								
	Freque	ency Range	: 2400-2483	5MHz					Measu	rement Distance: (Conductive	
Notes:	PSD Option 1		RBW: 3kHz VBW:10kH		Span:1.5 Sweep tir	MHz me: 500sec						
Antenna				Antenuator	Cable	Adjusted					FCC 15.247 (e)	
Polarization (H / V)	Frequency (MHz)	Reading (dBm)		Factor (dB)	Factor (dB)	Reading (dBm)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBm)	Margin (dB)	Result (Pass/Fail)
low channel mid channel high channel	2405.0 2440.0 2480.0	-40.0 -40.4 -41.0		30.0 30.0 30.0	2.4 2.4 2.4	-7.6 -8.0 -8.6				8.0 8.0 8.0	-15.6 -16.0 -16.6	Pass Pass Pass
Tab	le Result:	Pass	by	-23.1	dB					Worst Freq:	2405.0	MHz
Test Site: Analyzer:			Cable 1:	EMIR-HIGH-	13							

PLOTS

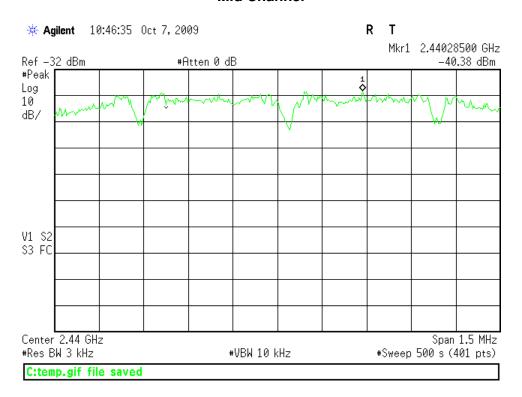
Low Channel



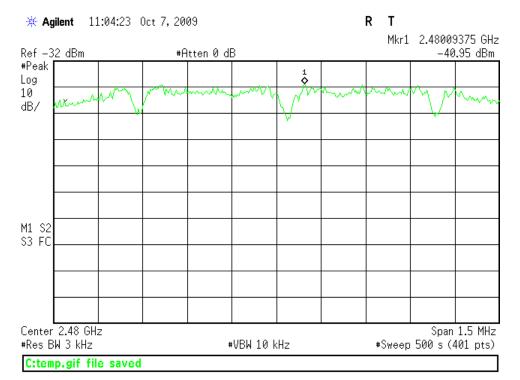




Mid Channel



High Channel







AC Line Conducted Emissions LIMITS

Frequency of emission (MHz)	Quasi-peak limit (dBµV)	Average limit (dBµV)
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

[47 CFR 15.207(a)]

MEASUREMENTS / RESULTS

Date:	06-Oct-09			company:	Learning Curve	Э			Work Order:	J1387
Engineer:	Matthew Burm	ian	E	UT Desc:	Parent				Test Site:	CEMI-02
	24.3℃			Humidity:	31%					
	US power sup									
Measure	ement Device:	Asset #1492	2 LISN			EUT O	perating Voltag	e/Frequency:	120Vac 60Hz	
Range:	0.15-30MHz						Spectr	um Analyzer:	Green	
					Impedance	FCC 1	5.207 (a)	FCC 1	5.207 (a)	
	Q.P. Rea	adings	Ave. Re	eadings	Factor				Overall	
Frequency	QP1	QP2	AV1	AV2		qp Limit	qp Margin	AVE Limit	AVE Margin	Result
(MHz)	(dBμV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBµV)	dB	(Pass/Fail
0.15	2.0	11.7	-5.0	4.2	20.1	66.0	-34.2	56.0	-31.7	Pass
0.17	24.0	24.4	17.2	17.2	20.1	65.1	-20.6	55.1	-17.8	Pass
0.23	26.1	28.6	21.8	22.0	20.1	62.3	-13.6	52.3	-10.2	Pass
	26.5	26.9	21.2	21.5	20.1	61.4	-14.4	51.4	-9.8	Pass
0.26			0.3	3.3	20.1	58.6	-27.8	48.6	-25.2	Pass
0.26 0.37	6.1	10.7	0.3	3.3	20.1					
	6.1 -2.4	10.7 -2.5	-9.5	-7.7	20.2	60.0	-42.2	50.0	-37.5	Pass





Voltage Variations

REQUIREMENT

Measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery powered equipment, the equipment tests shall be performed using a new battery. [15.31(e)]

MEASUREMENTS / RESULTS

Analyzer: Rental SA#5

Date:	12-Oct-09		Company:	Learning C	urve, Inc.			J1387			
Engineer:	Matthew Burm	an	EUT Desc:	Parent Unit	t	EUT Operating Voltage/Frequency: 120Vac 60					
Temp:	19.7℃		Humidity:	29%							
	Frequency Range: 2405-2480MHz Measurement Distance: 1 m										
	EUT transmitti EUT not fully n	• .	itput power								
Antenna			Preamp	Antenna	Cable	Adjusted		FCC 15.31(e)			
Polarization (H / V)	Frequency (MHz)	Reading (dBm)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)		Margin (dB)	Result (Pass/Fail)		
low channel											
120Vac 60Hz	2405.0	-38.5	0.0	29.3	1.4	-7.8			Pass		
138Vac 60Hz	2405.0	-38.4	0.0	29.3	1.4	-7.7		0.0	Pass		
102Vac 60Hz	2405.0	-38.5	0.0	29.3	1.4	-7.8		0.0	Pass		
mid channel											
120Vac 60Hz	2440.0	-38.9	0.0	29.3	1.4	-8.2			Pass		
138Vac 60Hz	2440.0	-38.8	0.0	29.3	1.4	-8.1		0.1	Pass		
102Vac 60Hz	2440.0	-38.6	0.0	29.3	1.4	-7.9		-0.2	Pass		
high channel											
120Vac 60Hz	2480.0	-39.5	0.0	29.4	1.4	-8.7			Pass		
138Vac 60Hz	2480.0	-39.4	0.0	29.4	1.4	-8.6		-0.1	Pass		
102Vac 60Hz	2480.0	-39.5	0.0	29.4	1.4	-8.7		0.0	Pass		

Antenna: Black Horn

Preamp: none



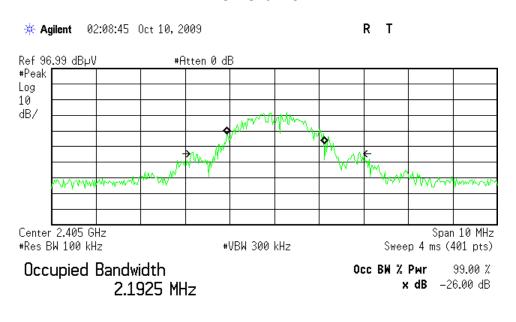


Occupied Bandwidth

REQUIREMENT

When an occupied bandwidth is no specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured. [RSS-GEN 4.6.1]

Low Channel



Transmit Freq Error 20.464 kHz x dB Bandwidth 3.562 MHz*

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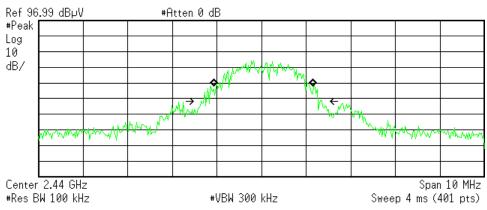




Mid Channel

* Agilent 02:10:45 Oct 10, 2009

R T



Occupied Bandwidth 2.2131 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error 37.162 kHz x dB Bandwidth 2.727 MHz*

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High Channel

Agilent 02:13:27 Oct 10, 2009 R T

Ref 96.99 dBµV #Atten 0 dB

#Peak
Log
10
dB/

Center 2.48 GHz
#Res BW 100 kHz
#VBW 300 kHz

Res BW 2 Pur 99 06 2

Occupied Bandwidth 2.2428 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error 37.639 kHz x dB Bandwidth 2.694 MHz*

C:temp.gif file saved





Measurement Uncertainty

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Expanded Uncertainty k=2	Maximum allowable uncertainty (ETSI)
Radiated Emissions (30-1000MHz)	5.6dB	N/A
Radiated Emissions (1-26.5GHz)	4.6dB	N/A
Radiated Emissions (above 26.5GHz)	4.9dB	N/A
Magnetic Radiated Emissions	5.6dB	N/A
Conducted Emissions	3.9dB	N/A
Telco Conducted Emissions (Current)	2.9dB	N/A
Telco Conducted Emissions (Voltage)	4.4dB	N/A
Electrostatic Discharge	11.5%	N/A
Radiated RF Immunity (Uniform Field)	1.6dB	N/A
Electrical Fast Transients	23.1%	N/A
Surge	23.1%	N/A
Conducted RF Immunity	3dB	N/A
Magnetic Immunity	12.8%	N/A
Dips and Interrupts	2.3V	N/A
Harmonics	3.5%	N/A
Flicker	3.5%	N/A
Radio frequency	8.2 x 10 ⁻⁸	1 x 10 ⁻⁷
RF power, conducted	0.7dB	0.75dB
Maximum frequency deviation: Within 300Hz and 6kHz of audio frequency Within 6kHz and 25kHz of audio frequency	• 1.2% • 0.1dB	• 5% • 3dB
Adjacent channel power	1.9dB	3dB
Conducted spurious emission of transmitter, valid up to 12.75GHz	0.7dB	3dB
Conducted emission of receivers	0.7dB	1dB
Radiated emission of transmitter, valid up to 26.5GHz	5.6dB	6dB
Radiated emission of transmitter, valid up to 80GHz	5.6dB	6dB
Radiated emission of receiver, valid up to 26.5GHz	5.6dB	6dB
Radiated emission of receiver, valid up to 80GHz	5.6dB	6dB
RF level uncertainty for a given BER	0.7dB	1dB
Humidity	2.31%	5%
Temperature	0.6℃	1.0℃
Time	0.8%	10%
RF Power Density, Conducted	2.2dB	3dB
DC and low frequency voltages	1.29%	3%
Voltage (AC, <10kHz)	1.29%	2%
Voltage (DC)	0.23%	1%
The above reflects a 95% confidence level		



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Test Equipment Used

Concernius Assaultance /								
SPECTRUM ANALYZERS / RECEIVERS /PRESELECTORS	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE	
RED	9kHz-1.8GHz	8591E	Agilent	3441A03559	00024		03-MAR-2010	
WHITE	9kHz-22GHz	8593E	Agilent	3547U01252	00022	1	10-DEC-2009	
BLUE	9kHz-1.8GHz	8591E	Agilent	3223A00227	00070		13-MAY-2010	
YELLOW	9kHz-2.9GHz	8594E	Agilent	3523A01958	00100	1	19-JAN-2010	
GREEN	9kHz-26.5GHz	8593E	Agilent	3829A03618	00143	1	11-JUN-2010	
BLACK	9kHz-12.8GHz	8596E	Agilent	3710A00944	00337		18-SEP-2010	
GOLD	100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	1	14-AUG-2010	
SA EMI CHAMBER (1327)	9kHz-13.2 GHz	E4405B	Agilent	MY45103416	1327		06-FEB-2010	
SA EMI CHAMBER (1328)	9kHz-13.2 GHz	E4405B	Agilent	MY44210241	1328	1	06-FEB-2010	
EFERENCE EMI TEST RECEIVER	20-1000MHz	ESVS30	Ř&S	827957/001	01098		Out of Cal	
RENTAL SA #1 (BROWN)	9kHz-26.5GHz	E4407B	Agilent	SG44210511	1510	1	10-FEB-2010	
RENTAL SA #5	9kHz-26.5 GHz	E4407B	Agilent	MY44220066	1491		02-FEB-2010	
EMI CHAMBER PRESELECTOR	9kHz-1.8GHz	EM-2701	Electro-Metrics	539	1511	1	27-FEB-2010	
EMI CHAMBER PRESELECTOR	9kHz-1.8GHz	EM-2701	Electro-Metrics	540	1512	I	27-FEB-2010	

LISNS/MEASUREMENT PROBES	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
RED LISN	9ĸHz-50MHz	8012-50-R-24-BNC	Solar	956348	00753	I	19-JUN-2010
BLUE LISN (DC)	50kHz-50MHz	8012-50-R-24-BNC	SOLAR	956349	00752	I	07-AUG-2010
YELLOW-BLACK LISN	30kHz-50MHz	8012-50-R-24-BNC	SOLAR	0411657	00248	I	27-MAY-2010
ORANGE LISN	9ĸHz-50MHz	8012-50-R-24-BNC	SOLAR	903707	00754	I	27-MAY-2010
GOLD LISN (DC)	9ĸHz-50MHz	8012-50-R-24-BNC	SOLAR	984734	00247	I	23-JUL-2010
Brown LISN	9ĸHz-50MHz	8012-50-R-24-BNC	SOLAR	0411656	00986	- 1	23-JUL-2010
GREEN LISN	9ĸHz-50MHz	8012-50-R-24-BNC	SOLAR	0411658	00987	I	11-FEB-2010
YELLOW LISN	9ĸHz-50MHz	8012-50-R-24-BNC	SOLAR	984735	1080	- 1	15-DEC-2009
WHITE-BLACK LISN	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972019	00678	- 1	27-MAY-2010
BLACK LISN	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972017	00675	- 1	19-JUN-2010
RED-BLACK LISN	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972016	00677	- 1	22-JUN-2010
BLUE-BLACK LISN	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972018	00676	I	27-MAY-2010
230VAC LISN ASSET 1492	10kHz-50MHz	9252-50-R-24-BNC	SOLAR	084713	1492	- 1	23-MAR-2010
230VAC LISN ASSET 1493	10kHz-50MHz	9252-50-R-24-BNC	SOLAR	084714	1493	I	23-MAR-2010
230VAC LISN ASSET 1494	10kHz-50MHz	9252-50-R-24-BNC	SOLAR	084715	1494	I	23-MAR-2010
230VAC LISN ASSET 1495	10kHz-50MHz	9252-50-R-24-BNC	SOLAR	084716	1495	I	23-MAR-2010
Blue Monitoring Probe	10kHz -150MHz	91550-2	TEGAM	12350	00807	- 1	27-MAY-2010
YELLOW MONITORING PROBE	10kHz -150MHz	91550-2	ETS	50972	00493	- 1	29-JAN-2010
Brown Monitoring Probe	10kHz -250MHz	F-33-1	FISCHER	425	1110	- 1	23-JAN-2010
WHITE MONITORING PROBE	10kHz -250MHz	CSP-8423-1	SCHAFFNER	510	1112	- 1	23-JAN-2010
GREEN CURRENT TRANSFORMER	40Hz-20MHz	150	PEARSON	10226	00793	- 1	06-MAY-2011
SURGE CURRENT PROBE	NA	CM-1-L	ION PHYSICS	896730	1265	- 1	08-OCT-2010
SURGE CURRENT PROBE	NA	CM-1-L	ION PHYSICS	NA	1276	- 1	06-MAY-2011
Blue Cispr Line Probe	10kHz-50MHz	N/A	C-S	N/A	00805	Ш	04-SEP-2011
BLACK CISPR LINE PROBE	10kHz-50MHz	N/A	C-S	N/A	1254	Ш	04-SEP-2011
CISPR TELCO VOLTAGE PROBE	10kHz-30MHz	CS A/C-10	C-S	CS01	00296	Ш	06-OCT-2010
CISPR 22 2 PAIR TELCO ISN	9ĸHz-30MHz	FCC-TLISN-T4	FISCHER	20115	00746	1	14-JAN-2011
CISPR 22 4 PAIR TELCO ISN	150кHz-30MHz	FCC-TLISN-T8-02-09	FISCHER	091109	1524	I	28-JUL-2011

RADIATED EMISSIONS SITES	FCC CODE	IC CODE	VCCI CODE	Сат	CALIBRATION DUE
SITE F OATS	93448	2762B-2	R-1688	II	27-JUL-2010
SITE TOATS	93448	2762B-3	R-905	П	06-DEC-2009
SITE A OATS	93448	2762B-5	R-903	II	04-DEC-2009
SITE M OATS	93448	2762B-6	R-904	П	25-JUN-2010
SITE J OATS	93448	2762B-4	R-2377	Ш	06-MAY-2010
1DCC-OATS-3M-I	719150	2762A-8		II	07-JUL-2011
EMI CHAMBER 1	719150	2762A-6	R-3032	1	15-FEB-2011
EMI CHAMBER 2	719150	2762A-7	R-3033	1	15-FEB-2011

CONDUCTED TEST SITES (MAINS / TELCO)	FCC CODE	VCCI CODE	Сат	CALIBRATION DUE
EMI 1	93448	C-1801, T-268	Ш	NA
EMI 2	93448	C-1802, T-269	Ш	NA
EMI3	93448	C-1803, T-270	Ш	NA



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EMI 4	93448	C-3013, T-391	III	NA
CEMI 1	719150	C-3360, T-1575	Ш	NA
CEMI 2	719150	C-3361, T-1576	III	NA
CEMI 3	719150	C-3362, T-1577	III	NA
CEMI 4	719150	C-3363, T-1578	III	NA
CEMI 5	719150	C-3364, T-1579	Ш	NA
CEMI 6	719150	C-3365, T-1580	III	NA

MIXERS/DIPLEXERS	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
Mixer / Horn	26.5-40 GHz	11970A/28-442-6	HP/ATM	2332A01695/A046903-01	1087	ı	01-NOV-2009
Mixer / Horn	26.5-40 GHz	11970A/28-442-6	HP/ATM	3003A07825/A046903-01	1086	1	08-OCT-2010
Mixer / Horn	40-60 GHz	M19HW/A	OML	U30110-1	00821	1	17-AUG-2011
MIXER	33-50 GHz	11970Q	HP	3003A03155	00104	I	28-NOV-2009
Mixer / Horn	50-75 GHz	11970V/QWH-VPRROO	HP/QUINSTAR	2521A01197/8794001	1179	- 1	28-NOV-2009
MIXER	75-110 GHz	11970W	HP	2521A01334	00105	- 1	28-NOV-2009
Mixer / Horn	60-90 GHz	M12HW/A	OML	E30110-1	00822	- 1	17-AUG-2011
Mixer / Horn	90-140 GHz	MO8HW/A	OML	F21206-1	00811	- 1	17-AUG-2011
Mixer / Horn	140-220 GHz	MO5HW/A	OML	G21206-1	00812	- 1	17-AUG-2011
DIPLEXER	40-220 GHz	DPL.26	OML	N/A	00813	I	17-AUG-2011

Absorbing Clamps	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
FISCHER CLAMP	30-1000MHz	F-201-23мм	FISCHER	10	00081	I	29-JAN-2010

HARMONIC & FLICKER ANALYZER	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
5001IX AC POWER SYSTEM	500lix	CI	HK53687	00376	II	08-SEP-2010
5001IX AC POWER SYSTEM	500lix	CI	HK52679	RENTAL	Ш	04-JUN-2010
10001IX POWER SYSTEM	(2) 5001IX	CI	HK53687 with HK53688	1521	II	08-SEP-2010

PREAMPS / COUPLERS ATTENUATORS / FILTERS	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
RED	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00798	Ш	07-APR-2010
BLUE	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00759	Ш	07-APR-2010
BLUE-BLACK	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00800	Ш	08-APR-2010
GREEN	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00802	Ш	07-APR-2010
BLACK	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00799	Ш	07-JAN-2010
ORANGE	0.009-2000MHz	ZFL-1000-LN	CS	N/A	00765	Ш	19-DEC-2009
Red-White	0.009-2000MHz	ZFL-1000-LN	CS	N/A	1258	Ш	07-APR-2010
WHITE	1-18GHz	SMC-12A	CS	426643	00760	Ш	OUT OF SERVICE
Brown (OLD)	1-20GHz	PM2-38-218-4R5-17-15-SFF	CS	PL1655	1132	Ш	OUT OF SERVICE
Brown	1-18GHz	CS	CS	N/A	1523	Ш	17-JUL-2010
1517 HF PREAMP	1-18GHz	CS	CS	N/A	1517	Ш	29-MAY-2010
Red-Green	1-20GHz	PM2-38-218-4R5-17-15-SFF	CS	N/A	1256	Ш	18-AUG-2009
RED-BLUE	1-20GHz	PE2-38-218-4R5-17-15-SFF	CS	NA	1257	Ш	08-MAY-2010
HF (YELLOW)	18-26.5GHz	AFS4-18002650-60-8P-4	CS	467559	1266	- 1	05-OCT-2010
HIGH PASS FILTER	0.03-20 GHz	SPA-F-55204	K&L	36	00817	Ш	08-JAN-2010
Low Pass Filter	0.03-18 GHz	11SL10-4100/X4400-O/O	K&L	4	00816	Ш	08-JAN-2010
HIGH PASS FILTER	0.03-6.5 GHz	11SH10-1000/T3000-0/0	K&L	1	1310	Ш	08-JAN-2010
HIGH PASS FILTER	0.03-14.5 GHz	11SH10-3000/T9000-0/0	K&L	1	1311	Ш	08-JAN-2010
HIGH PASS FILTER	0.03-8 GHz	VHP-19	MINI-CIRCUITS	NA	1287	Ш	08-JAN-2010
HIGH PASS FILTER	0.03-9 GHz	VHP-16	MINI-CIRCUITS	NA	1288	Ш	08-JAN-2010
HF 20dB 50W ATTENUATOR	0.009-18 GHz	PE 7019-20	PASTERNACK	01	00791	Ш	08-MAY-2011
HF 30dB 50W ATTENUATOR	0.009-18 GHz	PE 7019-30	PASTERNACK	02	1168	Ш	08-MAY-2011
HF 40dB 50W ATTENUATOR	0.009-18 GHz	PE 7017-40	PASTERNACK	NA	1513	Ш	08-MAY-2011
40DB 100W ATTENUATOR	0.09-2000MHz	BW-40N100W+	MINI-CIRCUITS	V N014900638	1231	Ш	08-JAN-2010
RFI-Low 130 KHz LPF	10-100kHz Pass	130 kHz LPF	Kiwa	NA	1235	Ш	08-MAY-2011
50W HF DIRECT. COUPLER	1-20GHz	DC7420	AR	0325960	1307	Ш	06-NOV-2009
500W DIRECT. COUPLER	0.009-2000MHz	C6277-10	WERLATONE	41911	1264	Ш	03-DEC-2009
200W DIRECT. COUPLER	0.009-2000MHz	C5571-10	WERLATONE	23098	1185	Ш	03-DEC-2009

ANTENNAS	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
GREEN BILOG	30-2000MHz	CBL6112B	CHASE	2742	00620	ı	17-DEC-2010
GREEN-BLACK BILOG	30-2000MHz	CBL6112B	CHASE	2412	00127	I	Out of Service
GREEN-RED BILOG	30-2000MHz	CBL6112B	CHASE	2435	00990	- 1	22-APR-2010
BLUE BILOG	30-1000MHz	3143	EMCO	1271	00803	Ш	OUT OF CAL
GRAY BILOG	20-2000MHz	3141	EMCO	9703-1038	00066	Ш	20-MAR
YELLOW-BLACK BILOG	20-2000MHz	CBL6140A	CHASE	1112	00126	П	Оит он



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RED-WHITE BILOG	30-2000MHz	JB1	SUNOL	A091604-1	01105	ı		17	DEC-2010	
RED-BLACK BILOG	30-2000MHz	JB1	SUNOL	A091604-2	01106	I		28-	OCT-2010	
RED-BROWN BILOG	30-2000MHz	JB1	SUNOL	A0032406	1218	- 1		11	AUG-2010	
YELLOW HORN	1-18GHz	3115	EMCO	9608-4898	00037	I		27-	-MAY-2011	
BLACK HORN	1-18GHz	3115	EMCO	9703-5148		I			-JUL-2011	
ORANGE HORN	1-18GHz	3115	EMCO	0004-6123		I		19	-JUN-2011	
RED HORN	1-10GHz	3115	EMCO		RENTAL	Ш		. ,	/ 19-MAY-10 (EU RFI-I	
HF (WHITE) HORN	18-26.5GHz	801-WLM	WAVELINE	00758	00758	I	C		RIFY BEFORE USE	
SMALL LOOP	10KHZ-30MHZ	PLA-130/A	ARA	1024	00755	I			MAR-2010	
LARGE LOOP	20Hz-5MHz	6511	EMCO	9704-1154	00067	ı		-	FEB-2010	
RENTAL 6509 LOOP	1ĸHz-30MHz		EMCO	1503	RENTAL	I		-	FEB-2010	
ACTIVE MONOPOLE	30Hz-30MHz		EMCO	3824	00068	Ш			-JUN-2010	
INDUCTION COIL	50-60Hz	1000-4-8	C-S	N/A	00778	Ш			MAY-2010	
INDUCTION COIL	50-60Hz	1000-4-8	C-S	N/A	1314	Ш			MAY-2010	
ADJUSTABLE DIPOLE	30-1000MHz		EMCO	1370	00757	ı			DEC-2010	
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1371	00756	I		03-	DEC-2010	
RE101 LOOP SENSOR	30Hz-100kHz		C-S	N/A	00818	Ш			Y BEFORE USE	
RS101 RADIATING LOOP	30Hz-100kHz		C-S	N/A	00819	II			ERIFY BEFORE USE	
RS101 LOOP SENSOR	30Hz-100kHz		C-S	N/A	00820	Ш			Y BEFORE USE	
EMI CHAMBER BILOG	26MHz-6GHz		ETS	00102060	1503	I			MAR-2011	
EMI CHAMBER BILOG	26MHz-6GHz	3142D	ETS	00102052	1504			17-	MAR-2011	
EFT		MN	MFR		SN		ASSET	Сат	CALIBRATION [
CAS 3025 BURST VERIFICATION ATTENUAT	-one IN	IA 265A/266	SCHAFFN	ER	20096		00947	П	31-JUL-201	
EFT DIRECT COUPLING		N/A	C-S		01		00794	II.	08-OCT-201	
MODULA6150		IODULA6150	TESEQ		34525		1268	ï	24-NOV-200	
RED BESTEMC-2	IV	711-1100	SCHAFFN	ED	200122-074	ISC	00623	i	04-SEP-201	
EMCPRO PLUS	FM	CPRO PLUS	KEYTEK		0811212		RENTAL	ii	27-JUL-201	
EMOTITO LOG		01 110 1 200	KETTEN	`	0011212	-	TILITIAL		27 002 201	
ESD GENERATORS		MN	MFR		SN .	ASSET	Сат		CALIBRATION DU	
GREEN	ı	NSG435	SCHAFFNE	R 00	0839	00763	I		18-DEC-2009	
RED	1	NSG435		R 00	1625	00762	1		27-MAR-2010	
YELLOW		930D	ETS		201	00673	<u> </u>		27-SEP-2009	
Dung Ann Internet		MN	McD		CN	٨٥٥	FT 0:	- 0	ALIDDATION DUE	
DIPS AND INTERF			MFR		SN	Ass			ALIBRATION DUE	
Modula6150)	Modula6150	TESEQ		4525	126	-		24-NOV-2009	
INA 6502 AUTOMATIC STEPT	RANSFORMER	INA 6502	TESEQ		105	126	69 I		13-FEB-2010	
RED BESTEMO	-2	711-1100	SCHAFFNER	20012	2-074SC	006	23 I		04-SEP-2010	
						1 -		- 1		

DIPS AND INTERRUPTS	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
MODULA6150	MODULA6150	TESEQ	34525	1268	I	24-NOV-2009
INA 6502 AUTOMATIC STEPTRANSFORMER	INA 6502	TESEQ	105	1269		13-FEB-2010
RED BESTEMC-2	711-1100	SCHAFFNER	200122-074SC	00623	1	04-SEP-2010
ECOMPACT4	ECOMPACT4	HAEFELY	155858	RENTAL	l II	OUT OF SERVICE
EMCPRO PLUS	EMCPRO PLUS	KEYTEK	0811212	RENTAL	l II	28-JUL-2010

CHAMBERS AND STRIPLINE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
RFI CHAMBER 1	3 METER COMPACT	PANASHIELD	N/A	00797	II	08-APR-2010
RFI CHAMBER 2	04' x 07' SHIELDING SYSTEM	LINDGREN	13329	00795	П	05-JAN-2010
RFI 3 STRIPLINE	N/A	C-S	N/A	00796	Ш	FEEDBACK ONLY
ENVIRONMENTAL (SAFETY)	ECL5	B-M-A Inc.	2041	00029		23-APR-2010
ENVIRONMENTAL (SAFETY)	SGTH-31S	B-M-A Inc.	2245	00321		23-APR-2010

A MPLIFIERS	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
RED	0.5-1000MHz	10W1000B	AR	18708	00032	II	17-MAR-2010 (RTCA BLUE CLAMP)
GREEN	0.5-1000MHz	10W1000B	AR	23423	00123	II	13-MAR-2010 (RFI1)
BLUE	0.01-100MHz	75A250	AR	19165	00039	II	08-JUN-10 (NEBS CRFI) / 09-JUN-2010 (EU CRFI)
BLACK	0.01-100MHz	75A250	AR	23411	00122	II	08-JUN-10 (NEBS CRFI) / 09-JUN-2010 (EU CRFI)
ORANGE	0.01-100MHz	75A250	AR	26827	00367	II	08-JUN-10 (NEBS CRFI) / 09-JUN-2010 (EU CRFI)
BROWN 150W	0.1-250MHz	150A250	AR	313454	1255	II	OUT OF CAL / FEEDBACK ONLY
YELLOW 150W	80-1000MHz	150W1000	AR	0324607	1253	II	14-MAR-2010 (RFI1) / 05-JAN-2010 (RFI2)
500W AMP	0.1-250MHz	500A250	AR	0326385	1297	II	20-MAR-2010 (RFI1) / 05-JAN-2010 (RFI2)
GTC 1-2.6	1.0-2.6 GHz	GRF5016A	GTC	1221	RENTAL	II	21-APR-2010(NEBS RFI-HIGH) / 19-MAY-2010 (EU RFI-HIGH)
HUGHES 10W	2.0-4.0GHz	1177H01	Hughes	055	RENTAL	II	21-APR-2010(NEBS RFI-HIGH) / 19-MAY-2010 (EU RFI-HIGH)
HUGHES 10W	4.0-8.0 GHz	8010H02F	Hughes	197	RENTAL	II	21-APR-2010(NEBS RFI-HIGH) / 19-MAY-2010 (EU RFI-HIGH)
HUGHES 10W	8-10.0GHz	80108	Hughes	138	RENTAL	II	21-APR-2010(NEBS RFI-HIGH) / 19-MAY-2010 (EU RFI-HIGH)
HP495A	7.0-10.0GHz	HP495A	HP	304-00237	00086	II	OUT OF SERVICE (SPARE)
AUDIO AMP	AUDIO FREQ	MPA-200	RADIO SHACK	700438	NONE	Ш	NA
AUDIO AMP	AUDIO FREQ	MPA-200	RADIO SHACK	708545	00862	III	NA



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FIRED PROBES											
GREEN 0.01-1000MHz	FIELD PROBES	3	RANGE	N	1N	Mr	-R	SN	ASSET	Сат	CALIBRATION DUE
Reference Laser Field Probe 0.01-1000MHz HI-4422 HOLADAY 956966 0.1100 17APR-2010 MCROWAYE SURVEY METER 2450MHz 2450MHz 14170 14173 1305 1 2840MY-2010 2450MHz 245	RED	0	.01-1000MHz	HI-4	1422	Hola	ADAY	90369	00031	I	26-APR-2010
Reference Laser Field Probe ALT-2000MHz										I	
Micronyaye Surver METER 2450M/rz H-1501 HOLDAY 00075644 1244 1 Calibrate Betree Use GAUSSMETER (ELF METER) 2914-11417 4090 SYPPIIS 114173 1305 1 Z814MY-2010										ļ	
SIGNAL GENERATORS										!	
SIGNAL GENERATORS						_				 	
RED	GAUSSMETER (ELF IV	IETER)	25HZ-TKHZ	40	180	SYP	rris	1141/3	1305	ı	28-IVIA Y-2010
RED	SIGNAL GENERATOR	nc F	RANGE	MNI		MED		SNI	Λοςετ	Слт	CALIBRATION DUE
BLUE										UAI	
GREEN 0.09-2000MHz H78648B Agilent 3623A02072 00125 1 25-JUN-2010 WHITE 0.0114c15MHz H783120A Agilent US36048143 1219 1 27-MAY-2010 BRUW-WHITE 0.0114c15MHz H783120A Agilent US36048143 1219 1 27-MAY-2010 BRUE-WHITE 0.114c15MHz H783120A Agilent M180407632 00775 1 0.64 MAY-2010 SWEEPER 0.01-20.06Hz H783752A Agilent M180401072 RENTAL 1 0.114N-2010 AMFM STERIO Sic. Gen. 0.1-70MHz US3230 ELGO-EROS M180401072 RENTAL 1 0.114N-2010 AMFM STERIO Sic. Gen. 0.1-70MHz US3230 ELGO-EROS M180401072 RENTAL 1 0.114N-2010 AMFM STERIO Sic. Gen. 0.1-70MHz US3230 ELGO-EROS M180401072 RENTAL 1 0.114N-2010 AMFM STERIO Sic. Gen. 0.1-70MHz SE2361 ETS S0215 0.118 I 0.84UN-10 (BLUE, BLOCA EXOMERA AMP) GREEN (ELGO-ERO) 0.01-00MHz SE2361 ETS S0215 0.018 I 0.84UN-10 (BLUE, BLOCA EXOMERA AMP) REIQ (MEBS CREFI) 0.01-30MHz SE2361 ETS S0215 0.018 I 0.84UN-10 (BLUE, BLOCA EXOMERA AMP) REIQ (MEBS CREFI) 0.01-00MHz SE2361 ETS S0215 0.018 I 0.84UN-10 (BLUE, BLOCA EXOMERA AMP) REIQ (MEBS CREFI) 0.01-00MHz SE2361 ETS S0215 0.018 I 0.84UN-10 (BLUE, BLOCA EXOMERA AMP) REIQ (MEBS CREFI) 0.01-00MHz SE2361 ETS S0215 0.018 I 0.84UN-10 (BLUE, BLOCA EXOMERA AMP) REIQ (MES CREFI) 0.01-00MHz SE2361 ETS S0215 0.018 I 0.84UN-10 (BLUE, BLOCA EXOMERA AMP) REIQ (MES CREFI) 0.01-00MHz SE2361 ETS S0215 0.018 I 0.84UN-10 (BLUE, BLOCA EXOMERA AMP) REIQ (MES CREFI) 0.01-00MHz SE2361 ETS S0215 0.018 I 0.84UN-10 (BLUE, BLOCA EXOMERA AMP) REIQ (MES CREFI) 0.01-00MHz S02361 ETS S0215 0.018 I 0.84UN-10 (BLUE, BLOCA EXOMERA AMP) REIQ (MES CREFI) 0.01-00MHz 0.01-00MHz 0.01-00M										<u> </u>	
Chrange										i	
WHITE										i	
BIOWN-WHITE										i	
Reference	Brown-White	0.01	Hz-15MHz	HP33120/	A			SG40019842	1232	1	17-DEC-2009
Sweepen			Hz-13MHz							1	
REFERENCE SWEEPER 0.01-26.5GHz LG3230										1	
MANUS CERNEATOR 1-100Hz										!	
BULK NUMBER CAT CALIBRATION DUE					1	_				!	
BULK INJECTION CLAMPS RANGE MN MFR SN ASSET CAT CALIBRATION DUE					ELE					!	
GREEN (NEBS CRET)	IMPULSE GENERATOR	1.	-100HZ	GIG-25	ELEC	CTRO-IVIE	TRICS	290	00942	<u> </u>	Cai Deloie USe
GREEN (NEBS CRET)	BULK INJECTION CL	ΔΜΡς	RANGE	MN	MFR	SN	Asset	CAT	C	ALIBRATIO	N DHE
GREEN (EU CRFI) 0.01-00MHz 95236-1 ETS 50215 0.0118 II 08-JUN-10 (Blue, Black & Orange Amp) RED ((EU CRFI) 0.10-100MHz 95236-1 ETS 34026 1020 II 08-JUN-10 (Blue, Black & Orange Amp) RED ((EU CRFI) 0.10-100MHz 95236-1 ETS 34026 1020 II 08-JUN-10 (Blue, Black & Orange Amp) RED ((EU CRFI) 0.10-100MHz 95236-1 ETS 34026 1020 II 17-APR-2010 (Blue) 17-APR-2010 (RED) 17-APR-2010 (RE											
RED (NËBS CRFI)											
RED (EU CRFI) 0.10-100MHz 95236-1 ETS 34026 1020 II 08-JUN-10 (BLUE, BLACK & OPANGE AMP) BLUE (RTCA/DO-160E) 0.01-2MHz 95236-1 ETS 34026 1020 II 17-APR-2010 (BLACK) ANSI T1.315 MFR ASSET CAT CALIBRATION DUE SBC NOISE CART C-S 1286 III CALIBRATION DUE SBC TRANSIENT CART C-S 1286 III CALIBRATION DUE EMC 100MHz TDS 220 TEXTRONIX C036986 1166 1 18-MAY-2010 EMC 100MHz TDS 684B TEXTRONIX B011287 RENTAL 1 18-MAY-2010 EMC 100MHz TDS 684B TEXTRONIX B011287 RENTAL 1 18-MAY-2010 EMC 100MHz TDS 684B TEXTRONIX B011287 RENTAL 1 18-MAY-2010 EMC 100MHz TDS 684B TEXTRONIX B01287 RENTAL 1 18-MAY-2010 EMC 100MHz TDS 694B TEXTRONIX B01287											,
BLUE (RTCA/DO-160E) 2-450MHz 9142-1N SOLAR 063824 1237 II 17-APR-2010 (RED)				95236-1	ETS	34026		II			
ANSIT1.315	RED (RTCA/DO-160)E) 0	.01-2MHz	95236-1	ETS	34026	1020		1	7-APR-2010 ((BLACK)
SBC Noise Cart	BLUE (RTCA/DO-160	0E) 2	2-450MHz	9142-1N	SOLAR	063824	1237	II		17-APR-2010	(RED)
SBC Noise Cart	ANSI T1.31	5		MFR		As	SET	Сат		CALIBRAT	TION DUE
SBC Transient Cart C-S 1286 III Waveshape verified before use									CAL		
EMC 100MHz									_	_	
EMC 100MHz											
ESD REFERENCE 1GHZ TDS 844B TEKTRONIX B011287 RENTAL 18-MAY-2010 400MHz e*Scope TDS 3044B TEKTRONIX C010074 1275 1 18-FEB-2010 PRODUCT SAFETY 100 MHz TDS 340 TEKTRONIX B012357 00737 1 17-OCT-2009 DIFFERENTIAL PROBE 4222 PROBEMASTER 07-134 1296 30-SEP-2010 500MHz 10X PROBE P6139A TEKTRONIX NA 1280 1 22-JUL-2011 S00MHz 10X PROBE P6139A TEKTRONIX NA 1281 1 22-JUL-2011 REFERENCE 500MHz 10X PROBE P6139A TEKTRONIX NA 1282 1 22-JUL-2011 REFERENCE 500MHz 10X PROBE P6139A TEKTRONIX NA 1282 1 22-JUL-2011 S00MHz 10X PROBE P6139A TEKTRONIX NA 1283 1 22-JUL-2011 REFERENCE 500MHz 10X PROBE P6139A TEKTRONIX NA 1283 1 22-JUL-2011 REFERENCE HV 1000X PROBE P6139A TEKTRONIX NA 1283 1 22-JUL-2011 REFERENCE HV 1000X PROBE P6015A TEKTRONIX B056555 1277 1 18-MAY-2010 REFERENCE HV 1000X PROBE P6015A TEKTRONIX B056590 1278 1 18-MAY-2010 HV 1000X PROBE P6015A TEKTRONIX B056590 1278 1 18-MAY-2010 HV 1000X PROBE P6015A TEKTRONIX B045382 RENTAL 27-MAY-2010 HV 1000X PROBE P6015A TEKTRONIX B045382 RENTAL 27-MAY-2010 TEKTRONIX B045382 TEKTRONIX										Сат	CALIBRATION DUE
400MHz e*Scope										1	
PRODUCT SAFETY 100 MHz				-						!	
DIFFERENTIAL PROBE										!	
500MHz 10x Probe							ı			!	
S00MHz 10x Probe		-								! !	
REFERENCE 500MHz 10x PROBE P6139A TEKTRONIX NA 1282 22-JUL-2011										i	
REFERENCE 500MHz 10x Probe P6139A Tektronix NA 1319 22-JUL-2011		-								i	
S00MHz 10x Probe										i	
REFERENCE HV 1000x PROBE P6015A Tektronix B056590 1278 18-MAY-2010 HV 1000x Probe P6015A Tektronix B053297 Rental 27-MAY-2010 ENTARROW RENTAL 27-MAY-2010 27-MAY-2010 ENTARROW RENTAL 27-MAY-2010 ENTARROW ENTARROW RENTAL 27-MAY-2010 ENTARROW RENTAL 27-MAY-2010 ENTARROW RENTAL 27-MAY-2010 ENTARROW RENTAL 27-MAY-2010 ENTARROW			P613	9A	TEKTRO	XINC		NA	1283	1	22-JUL-2011
HV 1000x Probe P6015A Tektronix B053297 Rental 1 27-MAY-2010	REFERENCE HV 1000	0x Probe	P601	5A	TEKTRO	XINC	I	3056555	1277	1	18-MAY-2010
CDN NETWORKS RANGE MN MFR ASSET CAT CALIBRATION DUE BLUE 0.10-100MHz 20A M-3 C-S 00806 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) RED 0.10-100MHz 15A M-3 C-S 00780 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) YELLOW-BLACK 0.10-100MHz 15A M-3 C-S 00784 II OUT OF SERVICE GREEN 0.10-100MHz 30A M-3 C-S 00779 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) YELLOW 0.10-100MHz 30A M-5 C-S 00804 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) PURPLE 0.10-100MHz 30A M-4 C-S 1321 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) BROWN 0.10-100MHz M-3 C-S 1169 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) BROWN-WHITE 0.10-100MHz M-3 C-S 1170 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) RED-BLACK 0.10-100MHz M-2 (DC) C-S 1171 II										1	
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PURPLE 0.10-100MHz 30A M-4 C-S 1321 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) BROWN 0.10-100MHz M-3 C-S 1169 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) BROWN-WHITE 0.10-100MHz M-3 C-S 1170 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) BROWN-BLACK 0.10-100MHz M-2 (DC) C-S 1171 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) RED-BLACK 0.10-100MHz M-2 (DC) C-S 1177 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) GREEN-WHITE 0.10-100MHz M-2 (DC) C-S 1259 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) YELLOW (RES) 0.10-100MHz 100Ω RESISTOR C-S 00810 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) GREEN (RES) 0.10-100MHz 100Ω RESISTOR C-S 1172 II 09-JUN-10 (BLUE, BLACK & ORANGE AMP) ARTIFICIAL HAND 510Ω/220PF CS-AH C-S 1262 II 10-JUL-2010	GREEN	0.10-100M	Hz 3	30A M-3			00779		09-JUN-10 (BLUE, BLACK & ORANGE AMP		ACK & ORANGE AMP)
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GREEN (RES) $0.10-100MHz$ 100Ω RESISTOR C-S 1172 II 09-JUN-10 (Blue, Black & Orange Amp) ARTIFICIAL HAND $510\Omega/220$ PF CS-AH C-S 1262 II 10-JUL-2010				. ,							,
ARTIFICIAL HAND 510Ω/220PF CS-AH C-S 1262 II 10-JUL-2010	` ,										
ARTIFICIAL HAND 510Ω / 220PF CS-AH C-S 1263 II 10-JUL-2010					С	-S				10-JUL-	-2010
	ARTIFICIAL HAND	510Ω/220	ΡF	CS-AH	C	;-S	1263	<u>II</u>		10-JUL-	-2010



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RMS VOLTMETERS/CURRENT CLAM	P MN	Mnff	₹	SN	ASSET	Сат	CALIBRATION DUE
TRUE-RMS MULTIMETER (REFERENCE		FLUKI	LUKE 71700298		00769	1	02-APR-2010
TRUE RMS MULTIMETER	179	FLUKI		9280616	1228	i	29-SEP-2009
TRUE-RMS MULTIMETER	177	FLUKI		3390024	00973	- 1	OUT OF CAL
TRUE-RMS MULTIMETER	177	FLUKI	E 8	3390025	00974	1	11-MAR-2010
TRUE-RMS MULTIMETER (D RAND)	177	FLUKI	E 9	1320460	1226	l	03-APR-2010
TRUE-RMS MULTIMETER	177	FLUKI	E 8	3430419	00975	l	OUT OF CAL
TRUE RMS MULTIMETER	87III	FLUKI		0920208	00828	1	02-APR-2010
AC/DC CURRENT PROBE	A622	TEKTRO	NIX 08E	DD 6275Dv	1246	1	03-APR-2010
CURRENT SHUNT	200A50MV	SIMPSO		NA	1290	I	25-AUG-2010
BENCHTOP DMM	34401A	HP	_	46A69358	552	1	05-JUN-2010
BENCHTOP DMM	34401A	HP	31	46A69272	553	<u> </u>	05-JUN-2010
Power/Noise Meters	MN	MFF		SN	ASSET	Сат	CALIBRATION DUE
Power Meter	437B	HP		2912A01367	01099	1	06-MAY-2010
Power Sensor	8481A	HP		2702A61351	00774	!	06-MAY-2010
Power Meter	4232A	BOONT		11000	1260	!	01-SEP-2010
Power Sensor	51013-4E	BOONT		34457	1261	<u> </u>	01-SEP-2010
PSOPHOMETER	2429	BRUEL & I		1237642	00585	II	04-JUN-2011
TRANSMISSION LINE TESTER (DBRNC)	185T	AMRE		18507030010	1236	II.	23-APR-2010
TRANSMISSION LINE TESTER (DBRNC)	185T	AMRE		998658	00823	II.	23-APR-2010
THD, POWER &HARMONIC ANALYZER CURRENT CLAMP FOR NANOVIP	NANOVIP PLUS MN 13-EL	ELCONTROL		15925 NA	00250 1293	!	04-SEP-2011 04-SEP-2011
CURRENT CLAMP FOR NANOVIP	IVIIN 13-EL	ELCONTROL	ENERGY	INA	1293	ı	04-SEP-2011
T	141		_	011	A	0	0
TAPE MEASURES	MN	MF		SN	ASSET	Сат	CALIBRATION DUE
DIPOLE 26FT TAPE #1	2338CME	LUF		C3166-1	00776	II.	12-MAY-2011
DIPOLE 26FT TAPE #2	2338CME	LUF		C3166-2	00777	II II	12-MAY-2011
25FT/7.5M TAPE	4925IM	Kome	-	NA	1502	II.	12-MAY-2011
25FT/7.5M TAPE 25FT TAPE	4925IM	Kome		NA NA	1514	II II	12-MAY-2011
25FT/7.5M TAPE	4925IM	Workforce Komelon		NA NA	1515 1516	II	12-MAY-2011 12-MAY-2011
ZOFT//T.OM TAPE	49231IVI	KOME	LON	INA	1316	!!	12-IVIA 1-2011
Super Crurpatone	MN		MFR	SN	ASSET	Сат	CALIBRATION DUE
SURGE GENERATORS	TWM-5		CDI				OUT OF SERVICE
TRANSIENT WAVEFORM MONITOR	I WM-5 M5)	CDI	003982 003966	00323 00324	II	
Universal Surge Generator Three Phase Coupling Nwk	3CN		CDI	003455	00324	II II	CAL BEFORE USE CAL BEFORE USE
1.2x50uS Plugin Module	1.2x50uS Pi	LIGIN	CDI	N/A	00323	ii	CAL BEFORE USE
10x160uS Plugin Module	10x160uS P		C-S	N/A	00843	ii	CAL BEFORE USE
10x560uS PLUGIN MODULE	10x560uS P		C-S	N/A	00841	ii	CAL BEFORE USE
PSurge Controller Module	PSURGE 8		HAEFELY	150267	00879	ii	CAL BEFORE USE
COUPLING/DECOUPLING MODULE	PCD 90		HAEFELY	149213	00880	ii	CAL BEFORE USE
IMPULSE MODULE	PIM 900		HAEFELY	149202	00881	Ш	CAL BEFORE USE
HIGH VOLTAGE CAP NWK 5KVDC, 18µ	F CS-HVC	С	C-S	01	00772	Ш	12-JUN-2010
NEBS Surge Generator (Limited Ca		•	C-S	N/A	00088	II	CAL BEFORE USE
2x10uS Surge Generator	2x10uS	}	C-S	N/A	00846	ii	CAL BEFORE USE
10x700uS Surge Generator	10x700u		C-S	N/A	00847	ii	CAL BEFORE USE
12 PAIR SURGE RESISTOR MODULE	N/A	_	C-S	N/A	00768	ii	CAL BEFORE USE
VSS 500-M	VSS 500 M1	2 S2	EMTEST	V0502100032	1155	Ш	CAL BEFORE USE
TSS 500-M (10x700uS)	TSS500 M	110	EMTEST	V0502100031	1156	II	20-AUG-2010
NSG 2050 SURGE GENERATOR	NSG 205	50	TESEQ	200720-605LU	1273	1	18-MAY-2010
PNW 2050 1.2x50 IMPULSE NETWORK	PNW 205	50	TESEQ	200711-604LU	1279	- 1	18-MAY-2010
CDN 133 3 Phase Coupling Networ			TESEQ	34416	1274	1	18-MAY-2010
Modula6150	MODULA61		TESEQ	34525	1268	I	24-NOV-2009
RED BESTEMC-2	711-110		CHAFFNER	200122-074SC	00623	1	04-SEP-2010
ECOMPACT4	ECOMPAG		HAEFELY	155858	RENTAL	II	OUT of Service
EMCPRO PLUS - 1.2x50uS	EMCPRO P		KEYTEK	0811212	RENTAL	II	06-AUG-2010
EMCPRO PLUS - RINGWAVE	EMCPRO P	LUS	KEYTEK	0811212	RENTAL	II	24-JUL-2010
				<u> </u>			
METEOROLOGICAL METERS	MN		MFR	SN	ASSET	CAT	CALIBRATION DUE
TEMP./HUMIDITY/ATM. PRESSURE GAUG		N II	Davis	N/A	00965	ļ	06-APR-2011
TEMPERATURE / HUMIDITY GAUGE	THG-912	_	HUGER	4000562	00789	!	17-MAR-2011
WEATHER CLOCK (PRESSURE ONLY) BA928			GON SCIENTIFIC		00831	l.	17-MAR-2011
CEMI2 THERMOHYGROMETER	35519-044		ITROL COMPANY		1336	II	18-AUG-2011
THERMOHYGROMETER	35519-044		ITROL COMPANY		1337	II II	OUT OF CAL
CEMI3 THERMOHYGROMETER CEMI4 THERMOHYGROMETER	35519-044		ITROL COMPANY		1338 1339	II II	18-AUG-2011
	35519-044 35519-044		ITROL COMPANY ITROL COMPANY		1339	II II	
THERMOHYGROMETER	33319-044	CON	THUL GUMPANY	12431119	1340	II	201



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CEMI5 THERMOHYGROMETER		35519-044	CONTROL COMPANY	72457633	1341	Ш	18-AUG-2011
THERMOHYGROMETER		35519-044	CONTROL COMPANY	72457631	1342	Ш	OUT OF CAL
THERMOHYGROMETER (TEMP ONLY)		35519-044	CONTROL COMPANY	72457758	1343	Ш	11-AUG-2011
CEMI6 THERMOHYGROMETE	R	35519-044	CONTROL COMPANY	72457730	1344	Ш	18-AUG-2011
1DCC-OATS-3M-I THERMOHYGR	OMETER	35519-044	CONTROL COMPANY	72457635	1334	Ш	18-AUG-2011
CEMI1 THERMOHYGROMETE	R	35519-044	CONTROL COMPANY	72457738	1335	Ш	18-AUG-2011
CHAMBER1 THERMOHYGROM	ETER	35519-044	CONTROL COMPANY	72457642	1345	Ш	18-AUG-2011
THERMOHYGROMETER		35519-044	CONTROL COMPANY	72457636	1346	Ш	OUT OF CAL
CHAMBER2 THERMOHYGROM	ETER	35519-044	CONTROL COMPANY	72457639	1347	Ш	18-AUG-2011
EMC1 THERMOHYGROMETE	R	35519-044	CONTROL COMPANY	72457647	1348	H	18-AUG-2011
EMC2 THERMOHYGROMETE	R	35519-044	CONTROL COMPANY	72457653	1352	Ш	18-AUG-2011
EMC3 THERMOHYGROMETE	R	35519-044	CONTROL COMPANY	72457727	1353	H	18-AUG-2011
EMC4 THERMOHYGROMETE	R	35519-044	CONTROL COMPANY	90823028	1496	Ш	20-MAR-2011
EMC5 THERMOHYGROMETE	R	35519-044	CONTROL COMPANY	90823030	1497	H	20-MAR-2011
OV THERMOHYGROMETER		35519-044	CONTROL COMPANY	90823031	1498	Ш	20-MAR-2011
RFI1 THERMOHYGROMETER	3	35519-044	CONTROL COMPANY	90823034	1499	H	20-MAR-2011
RFI3 (STRIPLINE) THERMOHYGRO	METER	35519-044	CONTROL COMPANY	90823035	1500	H	20-MAR-2011
REFERENCE THERMOHYGROM	IETER	35519-044	CONTROL COMPANY	90823036	1501	Ш	20-MAR-2011
THERMOCOUPLE MODULE (FOR [DMM)	80TK	Fluke	93410013	1308	I	08-DEC-2010
THERMOCOUPLE MODULE (FOR I	OMM)	80TK	FLUKE	93410017	1309	- 1	08-DEC-2010
Overvoltage Chambers	MN	MFR	SN	ASSET	Сат		CALIBRATION DUE
Power Fault Simulator	OV1	C-S	N/A	00792	Ш		VERIFY BEFORE USE
POWER FAULT SIMULATOR	OV2	C-S	N/A	00116	III		VERIFY BEFORE USE
Consumables	SF	PEC.	MFR	STOCK/MN	ASSET	Сат	CALIBRATION DUE
NEBS CHEESECLOTH	S CHEESECLOTH 26-28M/KG		ED&D	ACC-01	N/A	III	N/A
NEBS CARBON BLOCK 3-MIL-GAP 1KV SURGE		1KV SURGE	RELIABLE	3AB	N/A	III	N/A

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.





Product Documentation

The following documentation has been provided by the client for inclusion in this report.





Conditions Of Testing

[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation], and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

- 1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Test Report") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.
- 2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.
- 3. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
- 4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.
- 5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "BUREAU VERITAS," "BUREAU VERITAS CONSUMER PRODUCTS SERVICES," "BVCPS", "MTL", "ACTS", "MTL-ACTS" and CURTIS-STRAUS (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
- 6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
- 7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
- 8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
- 9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
- 10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
- 11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only were such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
- 12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time perioder.



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- 13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.
- 14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.
- 15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.

(B)NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.

- 16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.
- 17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

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