



ADDENDUM TO DAVIS INSTRUMENTS TEST REPORT FC09-044

FOR THE

VANTAGE VUE WEATHER STATION CONSOLE, 06351

FCC PART 15 SUBPART B SECTIONS 15.107 & 15.109 CLASS B, SUBPART C SECTIONS 15.207 & 15.247 AND RSS-210 ISSUE 7

TESTING

DATE OF ISSUE: MAY 13, 2009

PREPARED FOR: PREPARED BY:

Davis Instruments 3465 Diablo Avenue Hayward, CA 94545 Mary Ellen Clayton CKC Laboratories, Inc. 5046 Sierra Pines Drive Mariposa, CA 95338

P.O. No.: 67365 Date of test: March 2-11, 2009 W.O. No.: 88538

Report No.: FC09-044A

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ADMINISTRATIVE INFORMATION

DATE OF TEST: March 2-11, 2009 **DATE OF RECEIPT:** March 2, 2009

REPRESENTATIVE: Perry Dillon

MANUFACTURER:

Davis Instruments 3465 Diablo Avenue Hayward, CA 94545 **TEST LOCATION:**

CKC Laboratories, Inc. 1120 Fulton Place Fremont, CA 94539

TEST METHOD: ANSI C63.4 (2003), RSS-210 Issue 7 and RSS GEN Issue 2

PURPOSE OF TEST:

Original Testing: To perform the testing of the Vantage VUE Weather Station Console, 06351 with the requirements for FCC Part 15 Subpart B Sections 15.107 & 15.109 Class B, Subpart C Sections 15.207 & 15.247 and RSS-210 devices.

Addendum A: To replace an incorrect radiated spurious emissions data sheet and add an explanation of the calculation used for RF power output with no new testing.

APPROVALS

Steve Behm, Director of Engineering Services

QUALITY ASSURANCE:

TEST PERSONNEL:

Amrinder Brar, EMC Engineer/Lab Manager

Art Rice, Senior EMC Engineer

Norberto Gamez Jr., Test Technologist



SUMMARY OF RESULTS

Test	Specification/Method	Results
Voltage Variation	FCC 15.31(e)	Pass
C. I. (IF.)	FGC 15 107 Cl P	D
Conducted Emissions	FCC 15.107 Class B	Pass
Radiated Emissions	FCC 15.109 Class B	Pass
Conducted Emissions	FCC 15.207	Pass
20dB Bandwidth	FCC 15.247(a) RSS-210	Pass
Carrier Frequency Separation	FCC 15.247(a)(1)	Pass
Number of Hopping Channels	FCC 15.247(a)(1)	Pass
Average Time of Occupancy	FCC 15.247(a)(1)	Pass
RF Output Power	FCC 15.247(b)(2)	Pass
OATS Spurious Emissions	FCC 15.247(d)	Pass
Bandedge	FCC 15.247(d)	Pass
99% Bandwidth	RSS-210 Issue 7 and RSS GEN Issue 2	Pass
Site File No.	FCC 958979 IC 3082B-1	

CONDITIONS DURING TESTING

Added ferrite at PC USB port and AC adapter for PC (support equipment) to reduce signals proven to come from support equipment, not EUT.

FCC 15.31(m) Number Of Channels

This device was tested on three channels.

FCC 15.33(a) Frequency Ranges Tested

15.107 Conducted Emissions: 150 kHz – 30 MHz 15.109 Radiated Emissions: 30 MHz – 5000 MHz 15.207 Conducted Emissions: 150 kHz – 30 MHz 15.247 Radiated Emissions: 30 kHz – 9500 MHz

EUT Operating Frequency

The EUT was operating at 902 MHz – 928 MHz.

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EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The customer declares the EUT tested by CKC Laboratories was representative of a production unit.

EQUIPMENT UNDER TEST

Vantage VUE Weather Station Console

Manuf: Davis Instruments

Model: 06351 Serial: Davis 1 FCC ID: pending

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

Data Logger
USB-Serial Adapter

Manuf: Davis Instruments Manuf: Keyspan Model: 06510SER Model: USA-19HS

Serial: NA Serial: NA

Printer/Scanner Laptop PC

Manuf: HP Manuf: IBM

Model: C5316A Model: Type 2373-BU6 Serial: MY8C4C207Y Serial: 99-DCBYA

AC Adapter for Laptop 5V 300mA AC Adapter

Manuf: IBM Manuf: Davis Instruments

Model: PN 08K8212 Model: 06625 Serial: UB39P21R Serial: NA

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MEASUREMENT UNCERTAINTIES

Uncertainty Value	Parameter
4.73 dB	Radiated Emissions
3.34 dB	Mains Conducted Emissions
3.30 dB	Disturbance Power

The reported measurement uncertainties are calculated based on the worst case of all laboratory environments from CKC Laboratories, Inc. test sites. Only those parameters which require estimation of measurement uncertainty are reported. The reported worst case measurement uncertainty is less than the maximum values derived in CISPR 16-4-2. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2. Compliance is deemed to occur provided measurements are below the specified limits.

REPORT OF EMISSIONS MEASUREMENTS

TESTING PARAMETERS

TEMPERATURE AND HUMIDITY DURING TESTING

The temperature during testing was within $+15^{\circ}$ C and $+35^{\circ}$ C. The relative humidity was between 20% and 75%.

The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in $dB\mu V/m$, the spectrum analyzer reading in $dB\mu V$ was corrected by using the following formula. This reading was then compared to the applicable specification limit.

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	SAMPLE CALCULATIONS					
	Meter reading	(dBµV)				
+	Antenna Factor	(dB)				
+	Cable Loss	(dB)				
_	Distance Correction	(dB)				
_	Preamplifier Gain	(dB)				
=	Corrected Reading	$(dB\mu V/m)$				

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. The following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used. When conducted emissions testing was performed, a 10 dB external attenuator was used with internal offset correction in the analyzer.

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the highest readings, this is indicated as a "QP" or an "Ave" on the appropriate rows of the data sheets. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer/receiver readings recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the measuring device called "peak hold," the measuring device had the ability to measure transients or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the quasi-peak detector.

Average

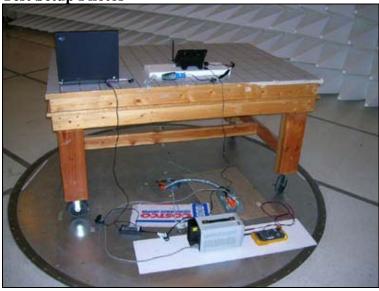
For certain frequencies, average measurements may be made using the spectrum analyzer/receiver. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.

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FCC 15.31(e) VOLTAGE VARIATIONS

Test Setup Photos



Test Data

Channel Frequency	DC Voltage Applied	Resulting Field Strength dBuV/m
902.361	3.8	99.3
902.341	4.5	99.4
902.356	5.2	99.3
914.897	3.8	101.9
914.902	4.5	101.9
914.902	5.2	101.9
927.437	3.8	101.4
927.436	4.5	101.4
927.428	5.2	101.4

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Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: **Davis Instruments**

Specification: FCC 15.247(b)(2) / 15.209 / 15.205

Work Order #: 88538 Date: 3/5/2009
Test Type: Voltage Variation on Power Time: 11:06:51
Equipment: Vantage VUE Weather Station Sequence#: 23

Console

Manufacturer: Davis Instruments Tested By: Art Rice

Model: 06351 S/N: Davis 1

Test Equipment:

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Function	S/N	Calibration Date	Cal Due Date	Asset #
Cable	None	04/02/2007	04/02/2009	P05299
Cable	None	04/05/2007	04/05/2009	P05300
Cable	None	04/21/2008	04/21/2010	P05440
Antenna	2630	12/22/2008	12/22/2010	00852
Preamp, HP8447D	2443A03707	02/09/2009	02/09/2011	00730
SA - Agilent E4446A	US44300438	07/23/2008	07/23/2010	02672
Tenma Power Supply	0201714	10/06/2008	10/06/2010	P05574
DMM, Fluke 85	65380320	07/17/2008	07/17/2010	02361

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
Vantage VUE Weather	Davis Instruments	06351	Davis 1	
Station Console*				

Support Devices:

Function	Manufacturer	Model #	S/N	
5V 300mA AC adapter	Davis Instruments	06625	none	

Test Conditions / Notes:

The EUT is placed on a 1 inch thick styrofoam block on top of the wooden test table. The EUT antenna is placed in the vertical position.

AC adapter is plugged into the outlet located on the turntable floor.

Transmitting continuously on selected channel, with hopping disabled.

Using FSK modulation at maximum data rate.

The transmitter ERP limit is based on stated 2dBi gain antenna with maximum conducted power of 1 watt or 30 dBm.

RBW=100kHz, VBW=300kHz.

Radiated emissions 902-928 MHz.

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Transducer Legend:
T1=ANT AN00852 25-1000MHz T3=Cable Calibration ANP05299 T5=AMP-AN00730-020909 .01-1000

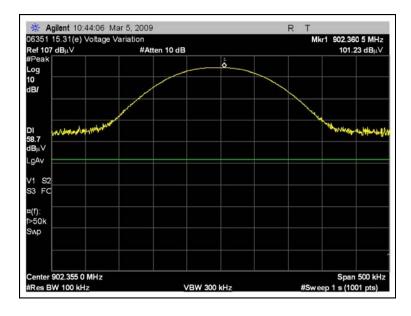
T2=Cable Calibration ANP05440 T4=Cable Calibration ANP05300

Measur	rement Data:	Re	eading lis	ted by ma	argin.		Te	est Distanc	e: 3 Meters	3	
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\muV/m$	$dB\muV/m$	dB	Ant
1	914.897M	103.8	+22.7	+1.9	+0.2	+0.7	+0.0	101.9	127.2	-25.3	Vert
			-27.4				56		Mid ch, 3.8	8V	101
2	914.902M	103.8	+22.7	+1.9	+0.2	+0.7	+0.0	101.9	127.2	-25.3	Vert
			-27.4				56		Mid ch, 4.:	5V	101
3	914.902M	103.8	+22.7	+1.9	+0.2	+0.7	+0.0	101.9	127.2	-25.3	Vert
			-27.4				56		Mid ch, 5.2	2V	101
4	927.428M	103.1	+23.0	+1.9	+0.2	+0.7	+0.0	101.4	127.2	-25.8	Vert
			-27.5				56		High ch, 5	.2V	101
5	927.436M	103.1	+23.0	+1.9	+0.2	+0.7	+0.0	101.4	127.2	-25.8	Vert
			-27.5				56		High ch, 4	.5V	101
6	927.437M	103.1	+23.0	+1.9	+0.2	+0.7	+0.0	101.4	127.2	-25.8	Vert
			-27.5				56		High ch, 3	.8V	101
7	902.341M	101.3	+22.5	+1.9	+0.3	+0.8	+0.0	99.4	127.2	-27.8	Vert
			-27.4				56		Low ch, 4.	5VDC,	101
									nominal		
8	902.356M	101.2	+22.5	+1.9	+0.3	+0.8	+0.0	99.3	127.2	-27.9	Vert
			-27.4				56		Low ch, 5.	2V	101
9	902.361M	101.2	+22.5	+1.9	+0.3	+0.8	+0.0	99.3	127.2	-27.9	Vert
			-27.4				56		Low ch, 3.	8V	101

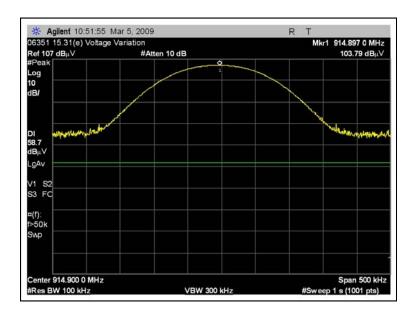
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FCC 15.31(e) VOLTAGE VARIATIONS - LOW CHANNEL 3.8V



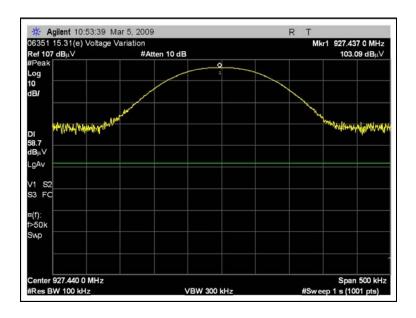
FCC 15.31(e) VOLTAGE VARIATIONS - MID CHANNEL 3.8V



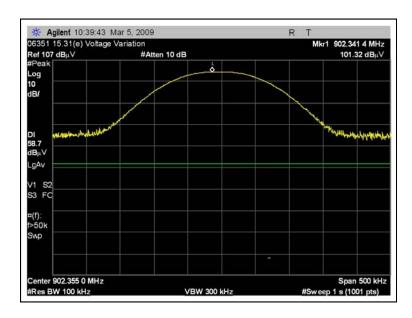
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FCC 15.31(e) VOLTAGE VARIATIONS - HIGH CHANNEL 3.8V



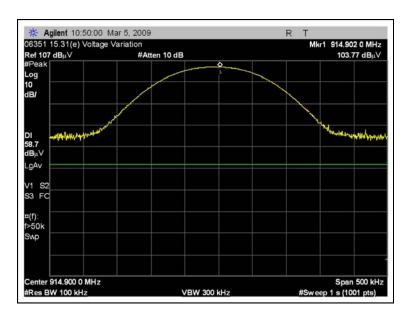
FCC 15.31(e) VOLTAGE VARIATIONS - LOW CHANNEL 4.5V



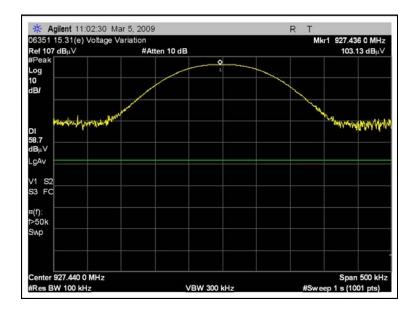
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FCC 15.31(e) VOLTAGE VARIATIONS - MID CHANNEL 4.5V



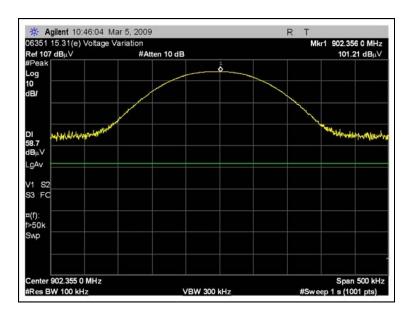
FCC 15.31(e) VOLTAGE VARIATIONS - HIGH CHANNEL 4.5V



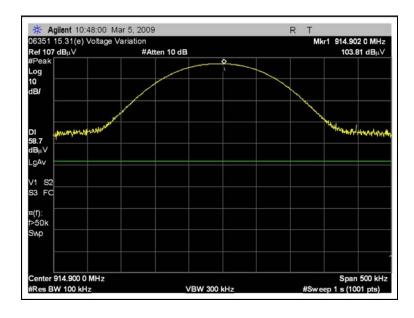
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FCC 15.31(e) VOLTAGE VARIATIONS - LOW CHANNEL 5.2V



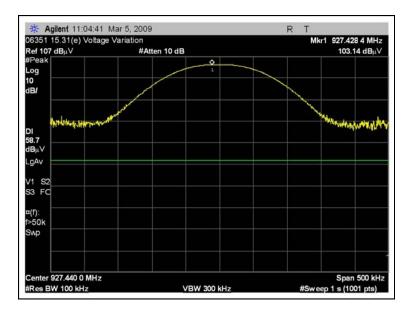
FCC 15.31(e) VOLTAGE VARIATIONS - HIGH CHANNEL 5.2V



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FCC 15.31(e) VOLTAGE VARIATIONS - HIGH CHANNEL 5.2V



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FCC 15.107 AC CONDUCTED EMISSIONS

Test Setup Photos





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Test Data Sheets

Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: **Davis Instruments**

Specification: FCC 15.107 B COND [AVE]

Work Order #: 88538 Date: 3/5/2009
Test Type: Conducted Emissions Time: 5:53:44 PM

Equipment: Vantage VUE Weather Station Sequence#: 26

Console

Manufacturer: Davis Instruments Tested By: Art Rice

Model: 06351 120V 60Hz

S/N: Davis 1

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
S.A., RF Section HP-8568B	2601A02492	01/06/2009	01/06/2011	02663
S.A., Display HP-85662A	2542A12169	01/06/2009	01/06/2011	02662
QP Adapter HP-85650A	2521A00909	01/07/2009	01/07/2011	00683
TTE High Pass Filter	H4120	12/18/2008	12/18/2010	05258
Cable	None	05/13/2008	05/13/2010	0880
10 dB Pad		04/05/2007	04/05/2009	00081
LISN, Emco 3816/2	9408-1006	04/02/2007	04/02/2009	00493

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Vantage VUE Weather	Davis Instruments	06351	Davis 1
Station Console*			

Support Devices:

Function	Manufacturer	Model #	S/N
Data Logger	Davis Instruments	06510SER	n/a
Printer/Scanner	HP	C5316A	MY8C4C207Y
5V 300mA AC adapter	Davis Instruments	06625	none
Laptop PC	Impression	N30W-14	0038760B110236A
AC adapter for laptop	Acbel Polytech	API-7629	061629

Test Conditions / Notes:

The EUT is placed on top of the wooden test table. The EUT antenna is placed in the vertical position.

Data logger is installed on the bottom of the EUT, and is connected to the serial port of the laptop. Hyperterminal program is running on the PC.

Printer/Scanner is connected to the parallel port of the PC.

AC adapter for the laptop is on the floor.

Low channel=902.355835 MHz (Ch 0)

Mid channel=914.899597 MHz (Ch 25)

High channel=927.443359 MHz (Ch 50)

Receiving on all channels in hop mode.

Conducted emissions 0.15-30 MHz.

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Transducer Legend:
T1=LISN - AN00493 - Black - ELC "OUT" T2=AN P00081 10dB Attenuator T3=FIL-ANP05258-121808 CE HP Filter T4=Cable Calibration ANP00880

H Freq Rdng T1 T2 T3 T4 Dist Corr Spec Margin Ant 1 684.492k 27.5 +0.0 +10.1 +0.0 +0.1 +0.0 37.7 46.0 -8.3 Black 2 2 2.608M 26.8 -0.1 +10.0 +0.1 +0.2 +0.0 36.9 46.0 -9.0 Black 3 4.888M 26.5 +0.1 +10.0 +0.1 +0.2 +0.0 36.9 46.0 -9.1 Black 4 3.352M 26.5 -0.1 +10.0 +0.1 +0.2 +0.0 36.7 46.0 -9.3 Black 5 4.003M 26.3 +0.0 +10.1 +0.1 +0.2 +0.0 36.7 46.0 -9.3 Black 6 3.692M 26.2 +0.0 +10.1 +0.1 +0.2 +0.0 36.6 46.0 -9.4 Black 7 2.064M 26.2 +0.0 +10.1 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 8 3.531M 26.1 +0.0 +10.1 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 9 4.807M 26.1 +0.1 +10.0 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 10 1.872M 26.2 +0.0 +10.0 +0.1 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 11 2.969M 26.3 -0.1 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 12 2.578M 26.1 -0.1 +10.0 +0.1 +0.1 +0.0 36.3 46.0 -9.6 Black 12 2.578M 25.9 +0.0 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 13 3.565M 25.9 +0.0 +10.1 +0.1 +0.1 +0.2 +0.0 36.3 46.0 -9.8 Black 15 4.688M 25.8 +0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 16 459.787k 26.6 +0.1 +10.1 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 16 459.787k 26.6 +0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 17 3.135M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 20 2.263M 25.7 +0.0 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 20 2.263M 25.7 +0.0 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 20 2.263M 25.7 +0.0 +10.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black 20 2.263M 25.7 +0.0 +10.1 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 20 3.867M 25.7 +0.0 +10.1 +0.1 +0.1 +0.0 3	Measur	rement Data:	: Re	eading lis	ted by ma	argin.			Test Lead	d: Black		
1 684.492k 27.5 +0.0 +10.1 +0.0 +0.1 +0.0 37.7 46.0 -8.3 Black 2 2.608M 26.8 -0.1 +10.0 +0.1 +0.2 +0.0 37.0 46.0 -9.0 Black 3 4.888M 26.5 +0.1 +10.0 +0.1 +0.2 +0.0 36.9 46.0 -9.1 Black 4 3.352M 26.5 -0.1 +10.0 +0.1 +0.2 +0.0 36.7 46.0 -9.3 Black 5 4.03M 26.3 +0.0 +10.1 +0.1 +0.2 +0.0 36.7 46.0 -9.3 Black 6 3.692M 26.2 +0.0 +10.1 +0.1 +0.2 +0.0 36.5 46.0 -9.3 Black 7 2.064M 26.2 +0.0 +10.1 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 8 3.531M	#										_	
2 2.608M 26.8 -0.1 +10.0 +0.1 +0.2 +0.0 37.0 46.0 -9.0 Black 3 4.888M 26.5 +0.1 +10.0 +0.1 +0.2 +0.0 36.9 46.0 -9.1 Black 4 3.352M 26.5 -0.1 +10.0 +0.1 +0.2 +0.0 36.7 46.0 -9.3 Black 5 4.003M 26.3 +0.0 +10.1 +0.1 +0.2 +0.0 36.7 46.0 -9.3 Black 6 3.692M 26.2 +0.0 +10.1 +0.1 +0.2 +0.0 36.6 46.0 -9.4 Black 7 2.064M 26.2 +0.0 +10.1 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 9 4.807M 26.1 +0.1 +10.0 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 10 1.872M			•						•			
3 4.888M 26.5 +0.1 +10.0 +0.1 +0.2 +0.0 36.9 46.0 -9.1 Black 4 3.352M 26.5 -0.1 +10.0 +0.1 +0.2 +0.0 36.7 46.0 -9.3 Black 5 4.003M 26.3 +0.0 +10.1 +0.1 +0.2 +0.0 36.7 46.0 -9.3 Black 6 3.692M 26.2 +0.0 +10.1 +0.1 +0.2 +0.0 36.6 46.0 -9.4 Black 7 2.064M 26.2 +0.0 +10.0 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 8 3.531M 26.1 +0.0 +10.1 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 9 4.807M 26.1 +0.1 +10.0 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 10 1.872M 26.2 +0.0 +10.0 +0.1 +0.2 +0.0 36.4 46.0 -9.6 Black 11 2.969M 26.3 -0.1 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 12 2.578M 26.1 -0.1 +10.0 +0.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 13 3.565M 25.9 +0.0 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 14 3.969M 25.9 +0.0 +10.1 +0.1 +0.1 +0.2 36.3 46.0 -9.8 Black 15 4.688M 25.8 +0.1 +10.0 +0.1 +0.1 +0.0 36.2 46.0 -9.8 Black 16 459.787k 26.6 +0.1 +10.1 +0.1 +0.1 +0.0 36.1 46.0 -9.8 Black 17 3.135M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.8 Black 18 3.293M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 18 3.293M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -9.9 Black 20 2.263M 25.7 +0.0 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 21 2.753M 25.9 -0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 22 3.718M 25.6 +0.0 +10.1 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black	1	684.492k	27.5	+0.0	+10.1	+0.0	+0.1	+0.0	37.7	46.0	-8.3	Black
4 3.352M 26.5 -0.1 +10.0 +0.1 +0.2 +0.0 36.7 46.0 -9.3 Black 5 4.003M 26.3 +0.0 +10.1 +0.1 +0.2 +0.0 36.7 46.0 -9.3 Black 6 3.692M 26.2 +0.0 +10.1 +0.1 +0.2 +0.0 36.6 46.0 -9.4 Black 7 2.064M 26.2 +0.0 +10.0 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 8 3.531M 26.1 +0.0 +10.1 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 9 4.807M 26.1 +0.1 +10.0 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 10 1.872M 26.2 +0.0 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 11 2.969M	2	2.608M	26.8	-0.1	+10.0	+0.1	+0.2	+0.0	37.0	46.0	-9.0	Black
5 4.003M 26.3 +0.0 +10.1 +0.1 +0.2 +0.0 36.7 46.0 -9.3 Black 6 3.692M 26.2 +0.0 +10.1 +0.1 +0.2 +0.0 36.6 46.0 -9.4 Black 7 2.064M 26.2 +0.0 +10.1 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 8 3.531M 26.1 +0.0 +10.1 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 9 4.807M 26.1 +0.1 +10.0 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 10 1.872M 26.2 +0.0 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 11 2.969M 26.3 -0.1 +10.0 +0.1 +0.1 +0.0 36.3 46.0 -9.6 Black 13 3.565M	3	4.888M	26.5	+0.1	+10.0	+0.1	+0.2	+0.0	36.9	46.0	-9.1	Black
6 3.692M 26.2 +0.0 +10.1 +0.1 +0.2 +0.0 36.6 46.0 -9.4 Black 7 2.064M 26.2 +0.0 +10.0 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 8 3.531M 26.1 +0.0 +10.1 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 9 4.807M 26.1 +0.1 +10.0 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 10 1.872M 26.2 +0.0 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 11 2.969M 26.3 -0.1 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 12 2.578M 26.1 -0.1 +10.0 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 13 3.565M	4	3.352M	26.5	-0.1	+10.0	+0.1	+0.2	+0.0	36.7	46.0	-9.3	Black
7 2.064M 26.2 +0.0 +10.0 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 8 3.531M 26.1 +0.0 +10.1 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 9 4.807M 26.1 +0.1 +10.0 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 10 1.872M 26.2 +0.0 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 11 2.969M 26.3 -0.1 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 12 2.578M 26.1 -0.1 +10.0 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 14 3.969M 25.9 +0.0 +10.1 +0.1 +0.1 +0.0 36.2 46.0 -9.8 Black 15 4.688M	5	4.003M	26.3	+0.0	+10.1	+0.1	+0.2	+0.0	36.7	46.0	-9.3	Black
8 3.531M 26.1 +0.0 +10.1 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 9 4.807M 26.1 +0.1 +10.0 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 10 1.872M 26.2 +0.0 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 11 2.969M 26.3 -0.1 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 12 2.578M 26.1 -0.1 +10.0 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 13 3.565M 25.9 +0.0 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 14 3.969M 25.9 +0.0 +10.1 +0.1 +0.1 +0.0 36.2 46.0 -9.8 Black 15 4.688M 25.8 +0.1 +10.0 +0.1 +0.2 +0.0 36.2 46.0	6	3.692M	26.2	+0.0	+10.1	+0.1	+0.2	+0.0	36.6	46.0	-9.4	Black
9 4.807M 26.1 +0.1 +10.0 +0.1 +0.2 +0.0 36.5 46.0 -9.5 Black 10 1.872M 26.2 +0.0 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 11 2.969M 26.3 -0.1 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 12 2.578M 26.1 -0.1 +10.0 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 13 3.565M 25.9 +0.0 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 14 3.969M 25.9 +0.0 +10.1 +0.1 +0.1 +0.0 36.2 46.0 -9.8 Black 15 4.688M 25.8 +0.1 +10.0 +0.1 +0.2 +0.0 36.2 46.0 -9.8 Black 16 459.787k 26.6 +0.1 +10.1 +0.0 +0.0 +0.0 36.8 46.7 -9.9 Black 17 3.135M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 18 3.293M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 19 243.082k 31.9 +0.0 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 20 2.263M 25.7 +0.0 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 21 2.753M 25.9 -0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 22 3.718M 25.6 +0.0 +10.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black	7	2.064M	26.2	+0.0	+10.0	+0.1	+0.2	+0.0	36.5	46.0	-9.5	Black
10 1.872M 26.2 +0.0 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 11 2.969M 26.3 -0.1 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 12 2.578M 26.1 -0.1 +10.0 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 13 3.565M 25.9 +0.0 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 14 3.969M 25.9 +0.0 +10.1 +0.1 +0.1 +0.0 36.2 46.0 -9.8 Black 15 4.688M 25.8 +0.1 +10.0 +0.1 +0.2 +0.0 36.2 46.0 -9.8 Black 16 459.787k 26.6 +0.1 +10.1 +0.0 +0.0 36.8 46.7 -9.9 Black 18 3.293M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9<	8	3.531M	26.1	+0.0	+10.1	+0.1	+0.2	+0.0	36.5	46.0	-9.5	Black
11 2.969M 26.3 -0.1 +10.0 +0.1 +0.1 +0.0 36.4 46.0 -9.6 Black 12 2.578M 26.1 -0.1 +10.0 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 13 3.565M 25.9 +0.0 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 14 3.969M 25.9 +0.0 +10.1 +0.1 +0.1 +0.0 36.2 46.0 -9.8 Black 15 4.688M 25.8 +0.1 +10.0 +0.1 +0.2 +0.0 36.2 46.0 -9.8 Black 16 459.787k 26.6 +0.1 +10.1 +0.0 +0.0 +0.0 36.8 46.7 -9.9 Black 17 3.135M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 19 243.082k 31.9 +0.0 +10.0 +0.1 +0.0 +0.0 42.0 52.	9	4.807M	26.1	+0.1	+10.0	+0.1	+0.2	+0.0	36.5	46.0	-9.5	Black
12 2.578M 26.1 -0.1 +10.0 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 13 3.565M 25.9 +0.0 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 14 3.969M 25.9 +0.0 +10.1 +0.1 +0.1 +0.0 36.2 46.0 -9.8 Black 15 4.688M 25.8 +0.1 +10.0 +0.1 +0.2 +0.0 36.2 46.0 -9.8 Black 16 459.787k 26.6 +0.1 +10.1 +0.0 +0.0 +0.0 36.8 46.7 -9.9 Black 17 3.135M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 18 3.293M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 19 243.082k 31.9 +0.0 +10.0 +0.1 +0.0 +0.0 42.0 52.	10	1.872M	26.2	+0.0	+10.0	+0.1	+0.1	+0.0	36.4	46.0	-9.6	Black
13 3.565M 25.9 +0.0 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 Black 14 3.969M 25.9 +0.0 +10.1 +0.1 +0.1 +0.0 36.2 46.0 -9.8 Black 15 4.688M 25.8 +0.1 +10.0 +0.1 +0.2 +0.0 36.2 46.0 -9.8 Black 16 459.787k 26.6 +0.1 +10.1 +0.0 +0.0 36.8 46.7 -9.9 Black 17 3.135M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 18 3.293M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 19 243.082k 31.9 +0.0 +10.0 +0.1 +0.0 +0.0 42.0 52.0 -10.0 Black 20 2.263M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 36.0 46.0 -1	11	2.969M	26.3	-0.1	+10.0	+0.1	+0.1	+0.0	36.4	46.0	-9.6	Black
14 3.969M 25.9 +0.0 +10.1 +0.1 +0.1 +0.0 36.2 46.0 -9.8 Black 15 4.688M 25.8 +0.1 +10.0 +0.1 +0.2 +0.0 36.2 46.0 -9.8 Black 16 459.787k 26.6 +0.1 +10.1 +0.0 +0.0 +0.0 36.8 46.7 -9.9 Black 17 3.135M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 18 3.293M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 19 243.082k 31.9 +0.0 +10.0 +0.1 +0.0 +0.0 42.0 52.0 -10.0 Black 20 2.263M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black 21 2.753M 25.9 -0.1 +10.0 +0.1 +0.1 +0.0 36.0 4	12	2.578M	26.1	-0.1	+10.0	+0.1	+0.2	+0.0	36.3	46.0	-9.7	Black
15 4.688M 25.8 +0.1 +10.0 +0.1 +0.2 +0.0 36.2 46.0 -9.8 Black 16 459.787k 26.6 +0.1 +10.1 +0.0 +0.0 +0.0 36.8 46.7 -9.9 Black 17 3.135M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 18 3.293M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 19 243.082k 31.9 +0.0 +10.0 +0.1 +0.0 +0.0 42.0 52.0 -10.0 Black 20 2.263M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black 21 2.753M 25.9 -0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 22 3.718M 25.6 +0.0 +10.1 +0.1 +0.2 +0.0 36.0	13	3.565M	25.9	+0.0	+10.1	+0.1	+0.2	+0.0	36.3	46.0	-9.7	Black
16 459.787k 26.6 +0.1 +10.1 +0.0 +0.0 +0.0 36.8 46.7 -9.9 Black 17 3.135M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 18 3.293M 26.0 -0.1 +10.0 +0.1 +0.0 36.1 46.0 -9.9 Black 19 243.082k 31.9 +0.0 +10.0 +0.1 +0.0 +0.0 42.0 52.0 -10.0 Black 20 2.263M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black 21 2.753M 25.9 -0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 22 3.718M 25.6 +0.0 +10.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black	14	3.969M	25.9	+0.0	+10.1	+0.1	+0.1	+0.0	36.2	46.0	-9.8	Black
17 3.135M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 18 3.293M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 19 243.082k 31.9 +0.0 +10.0 +0.1 +0.0 +0.0 42.0 52.0 -10.0 Black 20 2.263M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black 21 2.753M 25.9 -0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 22 3.718M 25.6 +0.0 +10.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black	15	4.688M	25.8	+0.1	+10.0	+0.1	+0.2	+0.0	36.2	46.0	-9.8	Black
18 3.293M 26.0 -0.1 +10.0 +0.1 +0.1 +0.0 36.1 46.0 -9.9 Black 19 243.082k 31.9 +0.0 +10.0 +0.1 +0.0 +0.0 42.0 52.0 -10.0 Black 20 2.263M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black 21 2.753M 25.9 -0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 22 3.718M 25.6 +0.0 +10.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black	16	459.787k	26.6	+0.1	+10.1	+0.0	+0.0	+0.0	36.8	46.7	-9.9	Black
19 243.082k 31.9 +0.0 +10.0 +0.1 +0.0 +0.0 42.0 52.0 -10.0 Black 20 2.263M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black 21 2.753M 25.9 -0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 22 3.718M 25.6 +0.0 +10.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black	17	3.135M	26.0	-0.1	+10.0	+0.1	+0.1	+0.0	36.1	46.0	-9.9	Black
20 2.263M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black 21 2.753M 25.9 -0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 22 3.718M 25.6 +0.0 +10.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black	18	3.293M	26.0	-0.1	+10.0	+0.1	+0.1	+0.0	36.1	46.0	-9.9	Black
21 2.753M 25.9 -0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black 22 3.718M 25.6 +0.0 +10.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black	19	243.082k	31.9	+0.0	+10.0	+0.1	+0.0	+0.0	42.0	52.0	-10.0	Black
22 3.718M 25.6 +0.0 +10.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0 Black	20	2.263M	25.7	+0.0	+10.0	+0.1	+0.2	+0.0	36.0	46.0	-10.0	Black
	21	2.753M	25.9	-0.1	+10.0	+0.1	+0.1	+0.0	36.0	46.0	-10.0	Black
23 3.867M 25.7 +0.0 +10.1 +0.1 +0.1 +0.0 36.0 46.0 -10.0 Black	22	3.718M	25.6	+0.0	+10.1	+0.1	+0.2	+0.0	36.0	46.0	-10.0	Black
	23	3.867M	25.7	+0.0	+10.1	+0.1	+0.1	+0.0	36.0	46.0	-10.0	Black

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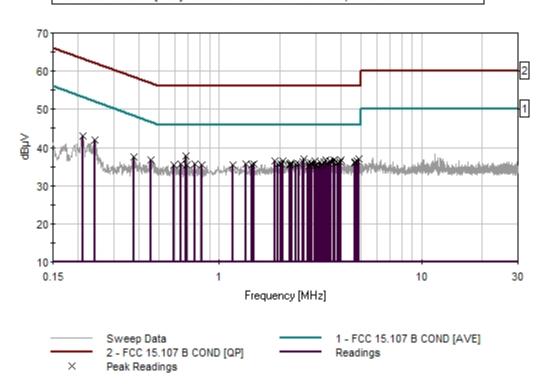
24	2.821M	25.8	-0.1	+10.0	+0.1	+0.1	+0.0	35.9	46.0	-10.1	Black
25	4.696M	25.5	+0.1	+10.0	+0.1	+0.2	+0.0	35.9	46.0	-10.1	Black
26	210.358k	32.8	+0.0	+10.0	+0.1	+0.1	+0.0	43.0	53.2	-10.2	Black
27	752.849k	25.7	+0.0	+10.0	+0.1	+0.0	+0.0	35.8	46.0	-10.2	Black
28	2.387M	25.5	+0.0	+10.0	+0.1	+0.2	+0.0	35.8	46.0	-10.2	Black
29	2.463M	25.6	-0.1	+10.0	+0.1	+0.2	+0.0	35.8	46.0	-10.2	Black
30	1.349M	25.4	+0.0	+10.1	+0.1	+0.1	+0.0	35.7	46.0	-10.3	Black
31	1.485M	25.5	+0.0	+10.0	+0.1	+0.1	+0.0	35.7	46.0	-10.3	Black
32	1.957M	25.4	+0.0	+10.0	+0.1	+0.2	+0.0	35.7	46.0	-10.3	Black
33	2.229M	25.5	+0.0	+10.0	+0.1	+0.1	+0.0	35.7	46.0	-10.3	Black
34	2.293M	25.4	+0.0	+10.0	+0.1	+0.2	+0.0	35.7	46.0	-10.3	Black
35	3.433M	25.5	-0.1	+10.0	+0.1	+0.2	+0.0	35.7	46.0	-10.3	Black
36	641.587k	25.4	+0.0	+10.1	+0.0	+0.1	+0.0	35.6	46.0	-10.4	Black
37	2.025M	25.3	+0.0	+10.0	+0.1	+0.2	+0.0	35.6	46.0	-10.4	Black
38	3.033M	25.4	-0.1	+10.0	+0.1	+0.1	+0.0	35.5	46.0	-10.5	Black
39	3.229M	25.4	-0.1	+10.0	+0.1	+0.1	+0.0	35.5	46.0	-10.5	Black
40	592.865k	25.1	+0.1	+10.1	+0.0	+0.1	+0.0	35.4	46.0	-10.6	Black
41	693.218k	25.2	+0.0	+10.1	+0.0	+0.1	+0.0	35.4	46.0	-10.6	Black
42	816.842k	25.2	+0.0	+10.0	+0.1	+0.1	+0.0	35.4	46.0	-10.6	Black
43	1.166M	25.1	+0.0	+10.1	+0.1	+0.1	+0.0	35.4	46.0	-10.6	Black
44	377.614k	27.3	+0.1	+10.1	+0.0	+0.1	+0.0	37.6	48.3	-10.7	Black
45	1.443M	25.1	+0.0	+10.0	+0.1	+0.1	+0.0	35.3	46.0	-10.7	Black
46	2.242M	25.0	+0.0	+10.0	+0.1	+0.2	+0.0	35.3	46.0	-10.7	Black
L											

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47	2.863M	25.2	-0.1	+10.0	+0.1	+0.1	+0.0	35.3	46.0	-10.7	Black
48	2.991M	25.2	-0.1	+10.0	+0.1	+0.1	+0.0	35.3	46.0	-10.7	Black
49	2.787M	25.1	-0.1	+10.0	+0.1	+0.1	+0.0	35.2	46.0	-10.8	Black
50	3.067M	25.1	-0.1	+10.0	+0.1	+0.1	+0.0	35.2	46.0	-10.8	Black

CKC Laboratories, Inc. Date: 3/5/2009 Time: 5:53:44 PM Davis Instruments WO#: 88538 FCC 15.107 B COND [AVE] Test Lead: Black 120V 60Hz Sequence#: 26





Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: **Davis Instruments**

Specification: FCC 15.107 B COND [AVE]

Work Order #: 88538 Date: 3/5/2009
Test Type: Conducted Emissions Time: 5:58:45 PM

Equipment: Vantage VUE Weather Station Sequence#: 27

Console

Manufacturer: Davis Instruments Tested By: Art Rice Model: 06351 120V 60Hz

S/N: Davis 1

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
S.A., RF Section HP-8568B	2601A02492	01/06/2009	01/06/2011	02663
S.A., Display HP-85662A	2542A12169	01/06/2009	01/06/2011	02662
QP Adapter HP-85650A	2521A00909	01/07/2009	01/07/2011	00683
TTE High Pass Filter	H4120	12/18/2008	12/18/2010	05258
Cable	None	05/13/2008	05/13/2010	00880
10 dB Pad		04/05/2007	04/05/2009	00081
LISN, Emco 3816/2	9408-1006	04/02/2007	04/02/2009	00493

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Vantage VUE Weather	Davis Instruments	06351	Davis 1
Station Console*			

Support Devices:

Function	Manufacturer	Model #	S/N
Data Logger	Davis Instruments	06510SER	n/a
Printer/Scanner	HP	C5316A	MY8C4C207Y
5V 300mA AC adapter	Davis Instruments	06625	none
Laptop PC	Impression	N30W-14	0038760B110236A
AC adapter for laptop	Acbel Polytech	API-7629	061629

Test Conditions / Notes:

The EUT is placed on top of the wooden test table. The EUT antenna is placed in the vertical position.

Data logger is installed on the bottom of the EUT, and is connected to the serial port of the laptop. Hyperterminal program is running on the PC.

Printer/Scanner is connected to the parallel port of the PC.

AC adapter for the laptop is on the floor.

Low channel=902.355835 MHz (Ch 0)

Mid channel=914.899597 MHz (Ch 25)

High channel=927.443359 MHz (Ch 50)

Receiving on all channels in hop mode.

Conducted emissions 0.15-30 MHz.

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Transducer Legend:

T1=LISN - AN00493 - White - ELC "OUT"	T2=AN P00081 10dB Attenuator
T3=FIL-ANP05258-121808 CE HP Filter	T4=Cable Calibration ANP00880

# Freq MHz Rdng dBµV T1 T2 dB T3 dB T4 dB Dist dBµ Corv dBµV Spec dBµV Margin dBµ Polar Ant 1 684.492k 26.9 +0.0 +10.1 +0.0 +0.1 +0.0 37.1 46.0 -8.9 White 2 3.327M 26.7 +0.1 +10.0 +0.1 +0.1 +0.0 37.0 46.0 -9.0 White 3 3.569M 26.5 +0.1 +10.1 +0.1 +0.0 +0.0 37.0 46.0 -9.0 White 4 233.628k 32.9 +0.0 +10.0 +0.1 +0.0 40.0 36.7 46.0 -9.3 White 5 4.943M 26.4 +0.0 +10.0 +0.1 +0.0 40.0 35.3 -9.3 White 6 208.176k 33.8 +0.0 +10.0 +0.1 +0.0 +0.0 43.9 53.3 -9.7 White 8		rement Data:		eading lis	ted by ma	argin.			Test Lead	d: White		
1 684.492k 26.9	#					_					_	
2 3.327M 26.7 +0.1 +10.0 +0.1 +0.1 +0.0 37.0 46.0 -9.0 White 3 3.569M 26.5 +0.1 +10.1 +0.1 +0.2 +0.0 37.0 46.0 -9.0 White 4 233.628k 32.9 +0.0 +10.0 +0.1 +0.2 +0.0 36.7 46.0 -9.3 White 5 4.943M 26.4 +0.0 +10.0 +0.1 +0.2 +0.0 36.7 46.0 -9.3 White 6 208.176k 33.8 +0.0 +10.0 +0.1 +0.0 +0.0 43.9 53.3 -9.4 White 7 243.082k 32.2 +0.0 +10.0 +0.1 +0.0 +0.0 42.3 52.0 -9.7 White 8 3.718M 25.8 +0.1 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 White 9 2.774M 25.7 +0.1 +10.0 +0.1 +0.1 +0.2 36.0 46.0 -10.0 White 10 4.479M 25.7 +0.0 +10.0 +0.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0 White 11 3.654M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 12 4.033M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 13 3.395M 25.4 +0.1 +10.0 +0.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 14 3.246M 25.4 +0.1 +10.0 +0.1 +0.1 +0.2 +0.0 35.9 46.0 -10.2 White 15 3.271M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 16 2.263M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 17 2.659M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.4 White 18 1.698M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 19 3.956M 25.1 +0.1 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 20 2.510M 25.0 +0.1 +10.0 +0.1 +0.1 +0.2 +0.0 35.3 46.0 -10.5 White 21 2.629M 24.9 +0.1 +10.0 +0.1 +0.1 +0.2 +0.0 35.3 46.0 -10.5 White 22 2.727M 25.0 +0.1 +10.0 +0.1 +0.2 +0.0 35.3 46.0 -10.5 White			•						· ·			
3 3.569M 26.5 +0.1 +10.1 +0.1 +0.2 +0.0 37.0 46.0 -9.0 White 4 233.628k 32.9 +0.0 +10.0 +0.1 +0.0 +0.0 43.0 52.3 -9.3 White 5 4.943M 26.4 +0.0 +10.0 +0.1 +0.2 +0.0 36.7 46.0 -9.3 White 6 208.176k 33.8 +0.0 +10.0 +0.1 +0.0 +0.0 43.9 53.3 -9.4 White 7 243.082k 32.2 +0.0 +10.0 +0.1 +0.0 +0.0 42.3 52.0 -9.7 White 8 3.718M 25.8 +0.1 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 White 9 2.774M 25.7 +0.1 +10.0 +0.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0 White 10 4.479M 25.7 +0.0 +10.0 +0.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0 White 11 3.654M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 12 4.033M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 13 3.395M 25.4 +0.1 +10.0 +0.1 +0.2 +0.0 35.9 46.0 -10.2 White 14 3.246M 25.4 +0.1 +10.0 +0.1 +0.1 +0.2 +0.0 35.7 46.0 -10.2 White 15 3.271M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 16 2.263M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.6 46.0 -10.4 White 17 2.659M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.4 White 18 1.698M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.4 White 19 3.956M 25.1 +0.1 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 20 2.510M 25.0 +0.1 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 21 2.629M 24.9 +0.1 +10.0 +0.1 +0.1 +0.2 +0.0 35.3 46.0 -10.5 White 22 2.727M 25.0 +0.1 +10.0 +0.1 +0.2 +0.0 35.3 46.0 -10.7 White	1	684.492k	26.9	+0.0	+10.1	+0.0	+0.1	+0.0	37.1	46.0	-8.9	White
4 233.628k 32.9 +0.0 +10.0 +0.1 +0.0 +0.0 43.0 52.3 -9.3 White 5 4.943M 26.4 +0.0 +10.0 +0.1 +0.2 +0.0 36.7 46.0 -9.3 White 6 208.176k 33.8 +0.0 +10.0 +0.1 +0.0 +0.0 43.9 53.3 -9.4 White 7 243.082k 32.2 +0.0 +10.0 +0.1 +0.0 +0.0 42.3 52.0 -9.7 White 8 3.718M 25.8 +0.1 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 White 9 2.774M 25.7 +0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 White 10 4.479M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 11 3.654M	2	3.327M	26.7	+0.1	+10.0	+0.1	+0.1	+0.0	37.0	46.0	-9.0	White
5 4.943M 26.4 +0.0 +10.0 +0.1 +0.2 +0.0 36.7 46.0 -9.3 White 6 208.176k 33.8 +0.0 +10.0 +0.1 +0.0 +0.0 43.9 53.3 -9.4 White 7 243.082k 32.2 +0.0 +10.0 +0.1 +0.0 +0.0 42.3 52.0 -9.7 White 8 3.718M 25.8 +0.1 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 White 9 2.774M 25.7 +0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 White 10 4.479M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 36.0 46.0 -10.0 White 11 3.654M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 12 4.033M	3	3.569M	26.5	+0.1	+10.1	+0.1	+0.2	+0.0	37.0	46.0	-9.0	White
6 208.176k 33.8 +0.0 +10.0 +0.1 +0.0 +0.0 43.9 53.3 -9.4 White 7 243.082k 32.2 +0.0 +10.0 +0.1 +0.0 +0.0 42.3 52.0 -9.7 White 8 3.718M 25.8 +0.1 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 White 9 2.774M 25.7 +0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 White 10 4.479M 25.7 +0.0 +10.0 +0.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0 White 11 3.654M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 12 4.033M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 13 3.395M 25.4 +0.1 +10.0 +0.1 +0.2 +0.0 35.8 46.0 -10.2 White 14 3.246M 25.4 +0.1 +10.0 +0.1 +0.2 +0.0 35.7 46.0 -10.3 White 15 3.271M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 16 2.263M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.6 46.0 -10.4 White 17 2.659M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.4 White 18 1.698M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 19 3.956M 25.1 +0.1 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 20 2.510M 25.0 +0.1 +10.0 +0.1 +0.1 +0.0 35.3 46.0 -10.5 White 21 2.629M 24.9 +0.1 +10.0 +0.1 +0.1 +0.2 +0.0 35.3 46.0 -10.5 White 22 2.727M 25.0 +0.1 +10.0 +0.1 +0.2 +0.0 35.3 46.0 -10.7 White	4	233.628k	32.9	+0.0	+10.0	+0.1	+0.0	+0.0	43.0	52.3	-9.3	White
7 243.082k 32.2 +0.0 +10.0 +0.1 +0.0 +0.0 42.3 52.0 -9.7 White 8 3.718M 25.8 +0.1 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 White 9 2.774M 25.7 +0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 White 10 4.479M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 36.0 46.0 -10.0 White 11 3.654M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 12 4.033M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 13 3.295M 25.4 +0.1 +10.0 +0.1 +0.2 +0.0 35.8 46.0 -10.2 White 14 3.24	5	4.943M	26.4	+0.0	+10.0	+0.1	+0.2	+0.0	36.7	46.0	-9.3	White
8 3.718M 25.8 +0.1 +10.1 +0.1 +0.2 +0.0 36.3 46.0 -9.7 White 9 2.774M 25.7 +0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 White 10 4.479M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 36.0 46.0 -10.0 White 11 3.654M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 12 4.033M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 13 3.395M 25.4 +0.1 +10.0 +0.1 +0.2 +0.0 35.8 46.0 -10.2 White 14 3.246M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 15 3.271M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.6 46.	6	208.176k	33.8	+0.0	+10.0	+0.1	+0.0	+0.0	43.9	53.3	-9.4	White
9 2.774M 25.7 +0.1 +10.0 +0.1 +0.1 +0.0 36.0 46.0 -10.0 White 10 4.479M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 36.0 46.0 -10.0 White 11 3.654M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 12 4.033M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 13 3.395M 25.4 +0.1 +10.0 +0.1 +0.2 +0.0 35.8 46.0 -10.2 White 14 3.246M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 15 3.271M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 16 2.263M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.6 46.0 -10.4 White 17 2.659M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.4 White 18 1.698M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 19 3.956M 25.1 +0.1 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 20 2.510M 25.0 +0.1 +10.0 +0.1 +0.1 +0.0 35.3 46.0 -10.5 White 21 2.629M 24.9 +0.1 +10.0 +0.1 +0.2 +0.0 35.3 46.0 -10.6 White 22 2.727M 25.0 +0.1 +10.0 +0.1 +0.1 +0.2 +0.0 35.3 46.0 -10.7 White	7	243.082k	32.2	+0.0	+10.0	+0.1	+0.0	+0.0	42.3	52.0	-9.7	White
10 4.479M 25.7 +0.0 +10.0 +0.1 +0.2 +0.0 36.0 46.0 -10.0 White 11 3.654M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 12 4.033M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 13 3.395M 25.4 +0.1 +10.0 +0.1 +0.2 +0.0 35.8 46.0 -10.2 White 14 3.246M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 15 3.271M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 16 2.263M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.6 46.0 -10.4 White 18 1.698M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5	8	3.718M	25.8	+0.1	+10.1	+0.1	+0.2	+0.0	36.3	46.0	-9.7	White
11 3.654M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 12 4.033M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 13 3.395M 25.4 +0.1 +10.0 +0.1 +0.2 +0.0 35.8 46.0 -10.2 White 14 3.246M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 15 3.271M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 16 2.263M 25.3 +0.0 +10.0 +0.1 +0.2 +0.0 35.6 46.0 -10.4 White 17 2.659M 25.3 +0.1 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.4 White 19 3.956M 25.1 +0.1 +10.0 +0.1 +0.1 +0.0 35.5	9	2.774M	25.7	+0.1	+10.0	+0.1	+0.1	+0.0	36.0	46.0	-10.0	White
12 4.033M 25.4 +0.1 +10.1 +0.1 +0.2 +0.0 35.9 46.0 -10.1 White 13 3.395M 25.4 +0.1 +10.0 +0.1 +0.2 +0.0 35.8 46.0 -10.2 White 14 3.246M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 15 3.271M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 16 2.263M 25.3 +0.0 +10.0 +0.1 +0.2 +0.0 35.6 46.0 -10.4 White 17 2.659M 25.3 +0.1 +10.0 +0.1 +0.1 +0.0 35.6 46.0 -10.4 White 18 1.698M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 19 3.956M 25.1 +0.1 +10.1 +0.1 +0.1 +0.0 35.5	10	4.479M	25.7	+0.0	+10.0	+0.1	+0.2	+0.0	36.0	46.0	-10.0	White
13 3.395M 25.4 +0.1 +10.0 +0.1 +0.2 +0.0 35.8 46.0 -10.2 White 14 3.246M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 15 3.271M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 16 2.263M 25.3 +0.0 +10.0 +0.1 +0.2 +0.0 35.6 46.0 -10.4 White 17 2.659M 25.3 +0.1 +10.0 +0.1 +0.1 +0.0 35.6 46.0 -10.4 White 18 1.698M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 19 3.956M 25.1 +0.1 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 20 2.510M 25.0 +0.1 +10.0 +0.1 +0.2 +0.0 35.3	11	3.654M	25.4	+0.1	+10.1	+0.1	+0.2	+0.0	35.9	46.0	-10.1	White
14 3.246M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 15 3.271M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 16 2.263M 25.3 +0.0 +10.0 +0.1 +0.2 +0.0 35.6 46.0 -10.4 White 17 2.659M 25.3 +0.1 +10.0 +0.1 +0.1 +0.0 35.6 46.0 -10.4 White 18 1.698M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 19 3.956M 25.1 +0.1 +10.1 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 20 2.510M 25.0 +0.1 +10.0 +0.1 +0.2 +0.0 35.3 46.0 -10.6 White 21 2.629M 24.9 +0.1 +10.0 +0.1 +0.2 +0.0 35.3	12	4.033M	25.4	+0.1	+10.1	+0.1	+0.2	+0.0	35.9	46.0	-10.1	White
15 3.271M 25.4 +0.1 +10.0 +0.1 +0.1 +0.0 35.7 46.0 -10.3 White 16 2.263M 25.3 +0.0 +10.0 +0.1 +0.2 +0.0 35.6 46.0 -10.4 White 17 2.659M 25.3 +0.1 +10.0 +0.1 +0.1 +0.0 35.6 46.0 -10.4 White 18 1.698M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 19 3.956M 25.1 +0.1 +10.1 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 20 2.510M 25.0 +0.1 +10.0 +0.1 +0.2 +0.0 35.4 46.0 -10.6 White 21 2.629M 24.9 +0.1 +10.0 +0.1 +0.2 +0.0 35.3 46.0 -10.7 White 22 2.727M 25.0 +0.1 +10.0 +0.1 +0.1 +0.0 35.3	13	3.395M	25.4	+0.1	+10.0	+0.1	+0.2	+0.0	35.8	46.0	-10.2	White
16 2.263M 25.3 +0.0 +10.0 +0.1 +0.2 +0.0 35.6 46.0 -10.4 White 17 2.659M 25.3 +0.1 +10.0 +0.1 +0.1 +0.0 35.6 46.0 -10.4 White 18 1.698M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 19 3.956M 25.1 +0.1 +10.1 +0.1 +0.0 35.5 46.0 -10.5 White 20 2.510M 25.0 +0.1 +10.0 +0.1 +0.2 +0.0 35.4 46.0 -10.6 White 21 2.629M 24.9 +0.1 +10.0 +0.1 +0.2 +0.0 35.3 46.0 -10.7 White 22 2.727M 25.0 +0.1 +10.0 +0.1 +0.1 +0.0 35.3 46.0 -10.7 White	14	3.246M	25.4	+0.1	+10.0	+0.1	+0.1	+0.0	35.7	46.0	-10.3	White
17 2.659M 25.3 +0.1 +10.0 +0.1 +0.1 +0.0 35.6 46.0 -10.4 White 18 1.698M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 19 3.956M 25.1 +0.1 +10.1 +0.1 +0.0 35.5 46.0 -10.5 White 20 2.510M 25.0 +0.1 +10.0 +0.1 +0.2 +0.0 35.4 46.0 -10.6 White 21 2.629M 24.9 +0.1 +10.0 +0.1 +0.2 +0.0 35.3 46.0 -10.7 White 22 2.727M 25.0 +0.1 +10.0 +0.1 +0.1 +0.0 35.3 46.0 -10.7 White	15	3.271M	25.4	+0.1	+10.0	+0.1	+0.1	+0.0	35.7	46.0	-10.3	White
18 1.698M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 19 3.956M 25.1 +0.1 +10.1 +0.1 +0.0 35.5 46.0 -10.5 White 20 2.510M 25.0 +0.1 +10.0 +0.1 +0.2 +0.0 35.4 46.0 -10.6 White 21 2.629M 24.9 +0.1 +10.0 +0.1 +0.2 +0.0 35.3 46.0 -10.7 White 22 2.727M 25.0 +0.1 +10.0 +0.1 +0.1 +0.0 35.3 46.0 -10.7 White	16	2.263M	25.3	+0.0	+10.0	+0.1	+0.2	+0.0	35.6	46.0	-10.4	White
19 3.956M 25.1 +0.1 +10.1 +0.1 +0.1 +0.0 35.5 46.0 -10.5 White 20 2.510M 25.0 +0.1 +10.0 +0.1 +0.2 +0.0 35.4 46.0 -10.6 White 21 2.629M 24.9 +0.1 +10.0 +0.1 +0.2 +0.0 35.3 46.0 -10.7 White 22 2.727M 25.0 +0.1 +10.0 +0.1 +0.1 +0.0 35.3 46.0 -10.7 White	17	2.659M	25.3	+0.1	+10.0	+0.1	+0.1	+0.0	35.6	46.0	-10.4	White
20 2.510M 25.0 +0.1 +10.0 +0.1 +0.2 +0.0 35.4 46.0 -10.6 White 21 2.629M 24.9 +0.1 +10.0 +0.1 +0.2 +0.0 35.3 46.0 -10.7 White 22 2.727M 25.0 +0.1 +10.0 +0.1 +0.1 +0.0 35.3 46.0 -10.7 White	18	1.698M	25.3	+0.0	+10.0	+0.1	+0.1	+0.0	35.5	46.0	-10.5	White
21 2.629M 24.9 +0.1 +10.0 +0.1 +0.2 +0.0 35.3 46.0 -10.7 White 22 2.727M 25.0 +0.1 +10.0 +0.1 +0.1 +0.0 35.3 46.0 -10.7 White	19	3.956M	25.1	+0.1	+10.1	+0.1	+0.1	+0.0	35.5	46.0	-10.5	White
22 2.727M 25.0 +0.1 +10.0 +0.1 +0.1 +0.0 35.3 46.0 -10.7 White	20	2.510M	25.0	+0.1	+10.0	+0.1	+0.2	+0.0	35.4	46.0	-10.6	White
	21	2.629M	24.9	+0.1	+10.0	+0.1	+0.2	+0.0	35.3	46.0	-10.7	White
	22	2.727M	25.0	+0.1	+10.0	+0.1	+0.1	+0.0	35.3	46.0	-10.7	White
23 4.224M 24.8 +0.1 +10.1 +0.1 +0.2 +0.0 35.3 46.0 -10.7 White	23	4.224M	24.8	+0.1	+10.1	+0.1	+0.2	+0.0	35.3	46.0	-10.7	White

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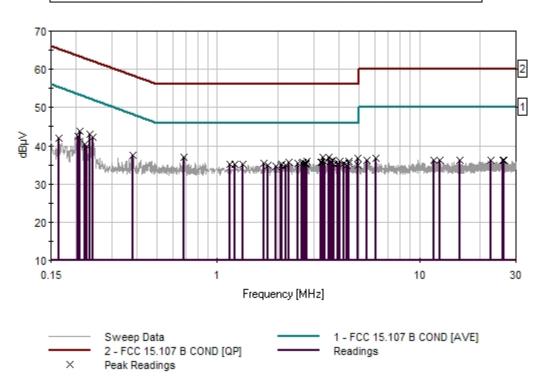
24	4.462M	24.8	+0.1	+10.1	+0.1	+0.2	+0.0	35.3	46.0	-10.7	White
25	379.795k	27.2	+0.1	+10.1	+0.0	+0.1	+0.0	37.5	48.3	-10.8	White
26	1.149M	24.9	+0.0	+10.1	+0.1	+0.1	+0.0	35.2	46.0	-10.8	White
27	2.093M	24.9	+0.0	+10.0	+0.1	+0.2	+0.0	35.2	46.0	-10.8	White
28	2.748M	24.9	+0.1	+10.0	+0.1	+0.1	+0.0	35.2	46.0	-10.8	White
29	3.752M	24.7	+0.1	+10.1	+0.1	+0.2	+0.0	35.2	46.0	-10.8	White
30	1.221M	24.8	+0.0	+10.1	+0.1	+0.1	+0.0	35.1	46.0	-10.9	White
31	1.336M	24.8	+0.0	+10.1	+0.1	+0.1	+0.0	35.1	46.0	-10.9	White
32	4.352M	24.5	+0.1	+10.1	+0.1	+0.2	+0.0	35.0	46.0	-11.0	White
33	203.813k	32.3	+0.0	+10.0	+0.1	+0.0	+0.0	42.4	53.5	-11.1	White
34	1.783M	24.7	+0.0	+10.0	+0.1	+0.1	+0.0	34.9	46.0	-11.1	White
35	2.191M	24.7	+0.0	+10.0	+0.1	+0.1	+0.0	34.9	46.0	-11.1	White
36	2.051M	24.5	+0.0	+10.0	+0.1	+0.2	+0.0	34.8	46.0	-11.2	White
37	4.973M	24.5	+0.0	+10.0	+0.1	+0.2	+0.0	34.8	46.0	-11.2	White
38	1.957M	24.4	+0.0	+10.0	+0.1	+0.2	+0.0	34.7	46.0	-11.3	White
39	2.693M	24.4	+0.1	+10.0	+0.1	+0.1	+0.0	34.7	46.0	-11.3	White
40	219.811k	30.1	+0.0	+10.0	+0.1	+0.1	+0.0	40.3	52.8	-12.5	White
41	224.902k	29.9	+0.0	+10.0	+0.1	+0.0	+0.0	40.0	52.6	-12.6	White
42	6.058M	26.3	+0.1	+10.1	+0.1	+0.2	+0.0	36.8	50.0	-13.2	White
43	164.544k	31.4	+0.0	+10.0	+0.4	+0.1	+0.0	41.9	55.2	-13.3	White
44	5.517M	25.8	+0.1	+10.1	+0.1	+0.2	+0.0	36.3	50.0	-13.7	White
45	11.734M	25.9	+0.0	+10.0	+0.1	+0.3	+0.0	36.3	50.0	-13.7	White
46	26.142M	25.3	+0.4	+10.0	+0.2	+0.4	+0.0	36.3	50.0	-13.7	White
47	15.887M	25.5	+0.1	+10.1	+0.2	+0.3	+0.0	36.2	50.0	-13.8	White
L											

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48	12.562M	25.7	+0.0	+10.0	+0.1	+0.3	+0.0	36.1	50.0	-13.9	White
49	22.671M	25.0	+0.4	+10.1	+0.2	+0.4	+0.0	36.1	50.0	-13.9	White
50	25.793M	25.1	+0.4	+10.0	+0.2	+0.4	+0.0	36.1	50.0	-13.9	White

CKC Laboratories, Inc. Date: 3/5/2009 Time: 5:58:45 PM Davis Instruments WO#: 88538 FCC 15.107 B COND [AVE] Test Lead: White 120V 60Hz Sequence#: 27

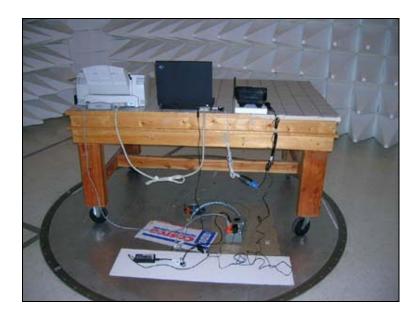




FCC 15.109 RADIATED EMISSIONS

Test Setup Photos





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Test Data Sheets

Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: **Davis Instruments**

Specification: FCC 15.109 Class B Radiated

Work Order #:88538Date:3/5/2009Test Type:Maximized EmissionsTime:19:39:40Equipment:Vantage VUE Weather Station ConsoleSequence#:30Manufacturer:Davis InstrumentsTested By:Art Rice

Model: 06351 S/N: Davis 1

Test Equipment:

Test Equipment.				
Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum Analyzer	US44300408	03/05/2007	03/05/2009	02668
Preamp, HP8447D	2443A03707	02/09/2009	02/09/2011	00730
Antenna, Bilog	2630	12/22/2008	12/22/2010	00852
Cable	None	04/21/2008	04/21/2010	P05440
Cable	None	04/05/2007	04/05/2009	P05300
Cable	None	04/02/2007	04/02/2009	P05299
SA - Agilent E4446A	US44300438	07/23/2008	07/23/2010	02672
Horn - DRG-118A	1064	01/09/2009	01/09/2011	02061
HF Pre-Amp - 83051A	00323	02/05/2008	02/05/2010	02810
Cable - HF - 32022-2-	n/a	02/04/2008	02/04/2010	03015
29094K-24TC				
Cable HF FSJ1P-50A-4	HOL-HF-025-06	05/06/2008	05/06/2010	P05138
Cable, HF	n/a	05/06/2008	05/06/2010	P04241

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Vantage VUE Weather	Davis Instruments	06351	Davis 1
Station Console*			

Support Devices:

Function	Manufacturer	Model #	S/N
5V 300mA AC adapter	Davis Instruments	06625	none
Data Logger	Davis Instruments	06510SER	n/a
USB-Serial adapter	Keyspan	USA-19HS	
Printer/Scanner	HP	C5316A	MY8C4C207Y
Laptop PC	IBM	Type 2373-BU6	99-DCBYA
AC adapter for laptop	IBM	PN 08K8212	UB39P21R

Test Conditions / Notes:

The EUT is placed on a 1 inch thick styrofoam block on top of the wooden test table. The EUT antenna is placed in the vertical position.

AC adapter is plugged into the outlet located on the turntable floor.

Data logger is installed on the bottom of the EUT, and is connected to the serial port of the USB-Serial Adapter. USB-Serial adapter is connected to the USB port of the laptop. Hyperterminal program is running on the PC. Printer/Scanner is connected to the parallel port of the PC.

AC adapter for the laptop is on the floor.

Added ferrite at PC USB port and AC adapter for PC (support equipment) to reduce signals proven to come from support equipment, not EUT.

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Low channel=902.355835 MHz (Ch 0) Mid channel=914.899597 MHz (Ch 25) High channel=927.443359 MHz (Ch 50)

Receiving on mid channel.

Radiated emissions 30MHz-5GHz

Transducer Legend:

T1=ANT AN00852 25-1000MHz
T2=Cable Calibration ANP05440
T3=Cable Calibration ANP05299
T4=Cable Calibration ANP05300
T5=AMP-AN00730-020909 .01-1000
T6=AMP-AN02810-020508
T7=ANT AN02061 900MHz-18.5GHz
T8=CAB-AN03015-020408
T9=CAB-ANP04241-050608
T10=CAB-ANP05138-050608

Measi	ırement Data:	Re	eading lis	ted by ma	ırgin.		Те	est Distance	e: 3 Meters	i	
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			T9	T10							
	MHz	dΒμV	dB	dB	dB	dB		$dB\mu V/m$		dB	Ant
1		45.0	+18.9	+0.4	+0.0	+0.1	+0.0	37.0	40.0	-3.0	Vert
	QP		-27.4	+0.0	+0.0	+0.0	157				101
			+0.0	+0.0							
^	30.363M	50.2	+18.8	+0.4	+0.0	+0.1	+0.0	42.1	40.0	+2.1	Vert
			-27.4	+0.0	+0.0	+0.0	157				101
			+0.0	+0.0							
3		56.9	+5.8	+0.5	+0.1	+0.2	+0.0	36.2	40.0	-3.8	Vert
	QP		-27.3	+0.0	+0.0	+0.0	113				103
			+0.0	+0.0							
^	58.724M	61.6	+5.9	+0.5	+0.1	+0.2	+0.0	41.0	40.0	+1.0	Vert
			-27.3	+0.0	+0.0	+0.0	113				103
			+0.0	+0.0							
^	58.752M	56.7	+5.8	+0.5	+0.1	+0.2	+0.0	36.0	40.0	-4.0	Vert
			-27.3	+0.0	+0.0	+0.0	300				103
			+0.0	+0.0							
6		47.8	+14.9	+0.4	+0.1	+0.1	+0.0	35.9	40.0	-4.1	Vert
	QP		-27.4	+0.0	+0.0	+0.0	208				103
			+0.0	+0.0							
^	38.016M	50.9	+14.9	+0.4	+0.1	+0.1	+0.0	39.0	40.0	-1.0	Vert
			-27.4	+0.0	+0.0	+0.0	208				103
			+0.0	+0.0							
8		56.8	+5.6	+0.4	+0.1	+0.2	+0.0	35.8	40.0	-4.2	Vert
	QP		-27.3	+0.0	+0.0	+0.0	111				103
			+0.0	+0.0							
٨	61.521M	61.1	+5.6	+0.4	+0.1	+0.2	+0.0	40.1	40.0	+0.1	Vert
			-27.3	+0.0	+0.0	+0.0	111				103
			+0.0	+0.0							
10		51.3	+10.4	+0.4	+0.1	+0.1	+0.0	35.0	40.0	-5.0	Vert
	QP		-27.3	+0.0	+0.0	+0.0	98				103
			+0.0	+0.0							
٨	46.254M	55.4	+10.4	+0.4	+0.1	+0.1	+0.0	39.1	40.0	-0.9	Vert
			-27.3	+0.0	+0.0	+0.0	98				103
			+0.0	+0.0							

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12	720 012M	44.0	+20.7	+1.7	+0.3	+0.7	+0.0	40.3	46.0	-5.7	Vert
	729.013M QP	44.0	+20.7 -27.1	+1.7	+0.3	+0.7	+0.0 358	40.3	46.0	-5.7	121
	Ųľ		+0.0	+0.0 +0.0	+0.0	+0.0	336				121
^	728.988M	44.8		+1.7	+0.3	+0.7	+0.0	41.1	46.0	-4.9	Vont
, ,	/28.988WI	44.8	+20.7		+0.3	+0.7	+0.0 358	41.1	46.0	-4.9	Vert
			-27.1	+0.0	+0.0	+0.0	338				121
1.4	4702 00714	26.5	+0.0	+0.0	. 0. 0	. 0. 0	. 0. 0	40.2	540	<i>5</i> 0	TT
14	4782.887M	36.5	+0.0	+0.0	+0.0	+0.0	+0.0	48.2		-5.8	Horiz
			+0.0	-26.6	+32.9	+0.7	-2		Noise floor		101
	47.45.5103.5	27.0	+1.1	+3.6	0.0		0.0	45.6	710		** .
15	4746.618M	35.9	+0.0	+0.0	+0.0	+0.0	+0.0	47.6		-6.4	Horiz
			+0.0	-26.6	+32.9	+0.7			Noise floor		101
			+1.1	+3.6							
16	928.508M	41.2	+23.0	+1.9	+0.2	+0.7		39.5	46.0	-6.5	Vert
			-27.5	+0.0	+0.0	+0.0	150				122
			+0.0	+0.0							
17	4764.283M	35.7	+0.0	+0.0	+0.0	+0.0		47.4	54.0	-6.6	Horiz
			+0.0	-26.6	+32.9	+0.7	-2		Noise floor		101
			+1.1	+3.6							
18	4775.492M	35.3	+0.0	+0.0	+0.0	+0.0	+0.0	47.0		-7.0	Vert
			+0.0	-26.6	+32.9	+0.7			Noise floor		101
			+1.1	+3.6							
19	4782.258M	35.2	+0.0	+0.0	+0.0	+0.0	+0.0	46.9	54.0	-7.1	Vert
			+0.0	-26.6	+32.9	+0.7			Noise floor		101
			+1.1	+3.6							
20	4927.850M	33.9	+0.0	+0.0	+0.0	+0.0	+0.0	46.4	54.0	-7.6	Vert
			+0.0	-26.3	+33.2	+0.7	-2		Noise floor		101
			+1.2	+3.7							
21	4921.101M	33.9	+0.0	+0.0	+0.0	+0.0	+0.0	46.4	54.0	-7.6	Vert
			+0.0	-26.3	+33.2	+0.7	-2		Noise floor		101
			+1.2	+3.7							
22	931.990M	39.9	+23.0	+1.9	+0.2	+0.7	+0.0	38.2	46.0	-7.8	Horiz
	, , , , , , , , , , , , , , , , , , , ,	-,,,	-27.5	+0.0	+0.0	+0.0	101			,	133
			+0.0	+0.0	. 0.0	. 0.0	101				100
23	4766.933M	34.4	+0.0	+0.0	+0.0	+0.0	+0.0	46.1	54.0	-7.9	Horiz
23	4700.7331 v1	54.4	+0.0	-26.6	+32.9	+0.7	10.0	40.1	Noise floor	1.5	10112
			+1.1	+3.6	132.7	10.7			110156 11001		101
2/	4762.031M	34.2	+0.0	+0.0	+0.0	+0.0	+0.0	45.9	54.0	-8.1	Horiz
∠ +	T/U2.U311V1	57.∠	+0.0	-26.6		+0.0			Noise floor	-0.1	10112
			+0.0	+3.6	134.3	10.7	-2		110130 11001		101
25	1761 905NA	33.7			ι Ο Ο	+0.0	+0.0	45.4	54.0	-8.6	Vert
23	4764.895M	55.1	$+0.0 \\ +0.0$	+0.0	+0.0		+0.0	43.4	Noise floor	-0.0	
				-26.6	+32.9	+0.7			THOISE HOOF		101
26	114 000 4	40.5	+1.1	+3.6	.0.1	.0.2	100	24.4	42.5	0.1	17
	114.009M	49.5	+11.1	+0.6	+0.1	+0.3	+0.0	34.4	43.5	-9.1	Vert
	QP		-27.2	+0.0	+0.0	+0.0	301				101
			+0.0	+0.0							
٨	113.995M	53.3	+11.0	+0.6	+0.1	+0.3	+0.0	38.1	43.5	-5.4	Vert
			-27.2	+0.0	+0.0	+0.0	301				101
			+0.0	+0.0							

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28	88.085M	52.5	+8.3	+0.6	+0.0	+0.2	+0.0	34.3	43.5	-9.2	Vert
(QP		-27.3	+0.0	+0.0	+0.0	310				103
			+0.0	+0.0							
٨	88.081M	56.1	+8.3	+0.6	+0.0	+0.2	+0.0	37.9	43.5	-5.6	Vert
			-27.3	+0.0	+0.0	+0.0	310				103
			+0.0	+0.0							
30	54.400M	48.7	+7.1	+0.4	+0.0	+0.2	+0.0	29.1	40.0	-10.9	Vert
	QP		-27.3	+0.0	+0.0	+0.0	131				101
			+0.0	+0.0							
^	54.313M	55.0	+7.1	+0.4	+0.0	+0.2	+0.0	35.4	40.0	-4.6	Vert
			-27.3	+0.0	+0.0	+0.0	131				101
			+0.0	+0.0							
32	664.303M	29.9	+20.0	+1.6	+0.2	+0.7	+0.0	25.4	46.0	-20.6	Vert
	QP		-27.0	+0.0	+0.0	+0.0	171				116
			+0.0	+0.0							
^	664.271M	45.5	+20.0	+1.6	+0.2	+0.7	+0.0	41.0	46.0	-5.0	Vert
			-27.0	+0.0	+0.0	+0.0	171				116
			+0.0	+0.0							
34	1194.713M	26.2	+0.0	+0.0	+0.0	+0.0	+0.0	25.1	54.0	-28.9	Vert
	Ave		+0.0	-27.7	+24.1	+0.3	179				101
			+0.5	+1.7							
٨	1194.741M	55.8	+0.0	+0.0	+0.0	+0.0	+0.0	54.7	54.0	+0.7	Vert
			+0.0	-27.7	+24.1	+0.3	179				101
			+0.5	+1.7							

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FCC 15.207 AC CONDUCTED EMISSIONS

Test Setup Photos





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Test Data Sheets

Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: **Davis Instruments**

Specification: FCC 15.207 COND [AVE]

Work Order #: 88538 Date: 3/11/2009
Test Type: Conducted Emissions Time: 08:57:32
Equipment: Vantage VUE Weather Station Sequence#: 38

Console

Manufacturer: Davis Instruments Tested By: N. Gamez

Model: 06351 120V 60Hz

S/N: Davis 1

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
S.A., RF Section HP-8568B	2601A02492	01/06/2009	01/06/2011	02663
S.A., Display HP-85662A	2542A12169	01/06/2009	01/06/2011	02662
QP Adapter HP-85650A	2521A00909	01/07/2009	01/07/2011	00683
TTE High Pass Filter	H4120	12/18/2008	12/18/2010	05258
Cable	None	05/13/2008	05/13/2010	00880
10 dB Pad		04/05/2007	04/05/2009	00081
LISN, Emco 3816/2	9408-1006	04/02/2007	04/02/2009	00493

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Vantage VUE Weather	Davis Instruments	06351	Davis 1
Station Console*			

Support Devices:

Function	Manufacturer	Model #	S/N
Data Logger	Davis Instruments	06510SER	n/a
Printer/Scanner	HP	C5316A	MY8C4C207Y
5V 300mA AC adapter	Davis Instruments	06625	none
Laptop PC	Impression	N30W-14	0038760B110236A
AC adapter for laptop	Acbel Polytech	API-7629	061629

Test Conditions / Notes:

The EUT is placed on top of the wooden test table. The EUT antenna is placed in the vertical position.

Data logger is installed on the bottom of the EUT, and is connected to the serial port of the laptop. Hyperterminal program is running on the PC.

Printer/Scanner is connected to the parallel port of the PC.

AC adapter for the laptop is on the floor.

Low channel=902.355835 MHz (Ch 0)

Mid channel=914.899597 MHz (Ch 25)

High channel=927.443359 MHz (Ch 50)

Transmitting continuously with modulation on worst case channel.

Conducted emissions 0.15-30 MHz.

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Transducer Legend:

T1=LISN - AN00493 - Black - ELC "OUT"	T2=AN P00081 10dB Attenuator
T3=FIL-ANP05258-121808 CE HP Filter	T4=Cable Calibration ANP00880

Measur	rement Data:		eading lis	ted by ma	argin.			Test Lead	d: Black		
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dΒμV	dB	dB	dB	dB	Table	dΒμV	dΒμV	dB	Ant
1	872.110k	26.7	+0.0	+10.0	+0.1	+0.2	+0.0	37.0	46.0	-9.0	Black
2	817.570k	26.4	+0.0	+10.0	+0.1	+0.1	+0.0	36.6	46.0	-9.4	Black
3	464.878k	26.9	+0.1	+10.1	+0.0	+0.0	+0.0	37.1	46.6	-9.5	Black
4	4.586M	26.0	+0.1	+10.0	+0.1	+0.2	+0.0	36.4	46.0	-9.6	Black
5	3.573M	25.9	+0.0	+10.1	+0.1	+0.2	+0.0	36.3	46.0	-9.7	Black
6	4.224M	25.9	+0.0	+10.1	+0.1	+0.2	+0.0	36.3	46.0	-9.7	Black
7	541.234k	26.0	+0.0	+10.1	+0.0	+0.1	+0.0	36.2	46.0	-9.8	Black
8	1.966M	25.8	+0.0	+10.0	+0.1	+0.2	+0.0	36.1	46.0	-9.9	Black
9	242.354k	31.9	+0.0	+10.0	+0.1	+0.0	+0.0	42.0	52.0	-10.0	Black
10	3.731M	25.6	+0.0	+10.1	+0.1	+0.2	+0.0	36.0	46.0	-10.0	Black
11	2.502M	25.7	-0.1	+10.0	+0.1	+0.2	+0.0	35.9	46.0	-10.1	Black
12	3.646M	25.5	+0.0	+10.1	+0.1	+0.2	+0.0	35.9	46.0	-10.1	Black
13	2.655M	25.5	-0.1	+10.0	+0.1	+0.2	+0.0	35.7	46.0	-10.3	Black
14	2.115M	25.4	+0.0	+10.0	+0.1	+0.1	+0.0	35.6	46.0	-10.4	Black
15	2.013M	25.2	+0.0	+10.0	+0.1	+0.2	+0.0	35.5	46.0	-10.5	Black
16	4.420M	25.1	+0.0	+10.1	+0.1	+0.2	+0.0	35.5	46.0	-10.5	Black
17	2.391M	25.1	+0.0	+10.0	+0.1	+0.2	+0.0	35.4	46.0	-10.6	Black
18	2.344M	25.0	+0.0	+10.0	+0.1	+0.2	+0.0	35.3	46.0	-10.7	Black
19	4.756M	24.9	+0.1	+10.0	+0.1	+0.2	+0.0	35.3	46.0	-10.7	Black
20	4.811M	24.9	+0.1	+10.0	+0.1	+0.2	+0.0	35.3	46.0	-10.7	Black
21	4.964M	24.9	+0.1	+10.0	+0.1	+0.2	+0.0	35.3	46.0	-10.7	Black
22	378.341k	27.2	+0.1	+10.1	+0.0	+0.1	+0.0	37.5	48.3	-10.8	Black
23	648.132k	25.0	+0.0	+10.1	+0.0	+0.1	+0.0	35.2	46.0	-10.8	Black

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24	656.131k	25.0	+0.0	+10.1	+0.0	+0.1	+0.0	35.2	46.0	-10.8	Black
25	2.195M	25.0	+0.0	+10.0	+0.1	+0.1	+0.0	35.2	46.0	-10.8	Black
26	713.580k	25.0	+0.0	+10.1	+0.0	+0.0	+0.0	35.1	46.0	-10.9	Black
27	2.765M	24.9	-0.1	+10.0	+0.1	+0.1	+0.0	35.0	46.0	-11.0	Black
28	213.994k	31.7	+0.0	+10.0	+0.1	+0.1	+0.0	41.9	53.0	-11.1	Black
29	672.857k	24.7	+0.0	+10.1	+0.0	+0.1	+0.0	34.9	46.0	-11.1	Black
30	806.662k	24.7	+0.0	+10.0	+0.1	+0.1	+0.0	34.9	46.0	-11.1	Black
31	2.527M	24.5	-0.1	+10.0	+0.1	+0.2	+0.0	34.7	46.0	-11.3	Black
32	11.914M	27.6	+0.1	+10.0	+0.1	+0.3	+0.0	38.1	50.0	-11.9	Black
33	427.063k	25.1	+0.1	+10.1	+0.0	+0.0	+0.0	35.3	47.3	-12.0	Black
34	351.434k	26.2	+0.0	+10.1	+0.1	+0.0	+0.0	36.4	48.9	-12.5	Black
35	6.409M	26.7	+0.1	+10.1	+0.1	+0.2	+0.0	37.2	50.0	-12.8	Black
36	11.301M	26.6	+0.0	+10.0	+0.1	+0.3	+0.0	37.0	50.0	-13.0	Black
37	28.493M	26.2	+0.1	+10.0	+0.2	+0.4	+0.0	36.9	50.0	-13.1	Black
38	12.400M	26.3	+0.1	+10.0	+0.1	+0.3	+0.0	36.8	50.0	-13.2	Black
39	683.000k Ave	22.6	+0.0	+10.1	+0.0	+0.1	+0.0	32.7	46.0	-13.3	Black
۸	683.000k	31.1	+0.0	+10.1	+0.0	+0.1	+0.0	41.3	46.0	-4.7	Black
41	11.508M	26.2	+0.1	+10.0	+0.1	+0.3	+0.0	36.7	50.0	-13.3	Black
42	199.450k	30.1	+0.0	+10.0	+0.1	+0.0	+0.0	40.2	53.6	-13.4	Black
43	366.706k	25.0	+0.0	+10.1	+0.1	+0.0	+0.0	35.2	48.6	-13.4	Black
44	5.797M	26.1	+0.1	+10.1	+0.1	+0.2	+0.0	36.6	50.0	-13.4	Black
45	12.112M	25.9	+0.1	+10.0	+0.1	+0.3	+0.0	36.4	50.0	-13.6	Black
46	24.991M	25.4	+0.2	+10.0	+0.2	+0.5	+0.0	36.3	50.0	-13.7	Black
47	25.628M	25.5	+0.2	+10.0	+0.2	+0.4	+0.0	36.3	50.0	-13.7	Black
48	10.103M	25.8	+0.0	+10.1	+0.1	+0.2	+0.0	36.2	50.0	-13.8	Black
-											

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49	12.725M	25.8	+0.0	+10.0	+0.1	+0.3	+0.0	36.2	50.0	-13.8	Black
50	13.463M	25.6	+0.0	+10.1	+0.2	+0.3	+0.0	36.2	50.0	-13.8	Black
51	27.246M	25.4	+0.2	+10.0	+0.2	+0.4	+0.0	36.2	50.0	-13.8	Black
52	683.000k	25.8	+0.0	+10.1	+0.0	+0.1	+0.0	36.0	56.0	-20.0	Black

CKC Laboratories, Inc. Date: 3/11/2009 Time: 08:57:32 Davis Instruments WO#: 88538 FCC 15.207 COND [AVE] Test Lead: Black 120V 60Hz Sequence#: 38 Black-120V





Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: **Davis Instruments**

Specification: FCC 15.207 COND [AVE]

Work Order #: 88538 Date: 3/11/2009
Test Type: Conducted Emissions Time: 8:44:06 AM

Equipment: Vantage VUE Weather Station Sequence#: 37

Console

Manufacturer: Davis Instruments Tested By: N. Gamez Model: 06351 120V 60Hz

S/N: Davis 1

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
S.A., RF Section HP-8568B	2601A02492	01/06/2009	01/06/2011	02663
S.A., Display HP-85662A	2542A12169	01/06/2009	01/06/2011	02662
QP Adapter HP-85650A	2521A00909	01/07/2009	01/07/2011	00683
TTE High Pass Filter	H4120	12/18/2008	12/18/2010	05258
Cable	None	05/13/2008	05/13/2010	00880
10 dB Pad		04/05/2007	04/05/2009	00081
LISN, Emco 3816/2	9408-1006	04/02/2007	04/02/2009	00493

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
Vantage VUE Weather	Davis Instruments	06351	Davis 1	
Station Console*				

Support Devices:

Function	Manufacturer	Model #	S/N
Data Logger	Davis Instruments	06510SER	n/a
Printer/Scanner	HP	C5316A	MY8C4C207Y
5V 300mA AC adapter	Davis Instruments	06625	none
Laptop PC	Impression	N30W-14	0038760B110236A
AC adapter for laptop	Acbel Polytech	API-7629	061629

Test Conditions / Notes:

The EUT is placed on top of the wooden test table. The EUT antenna is placed in the vertical position.

Data logger is installed on the bottom of the EUT, and is connected to the serial port of the laptop. Hyperterminal program is running on the PC.

Printer/Scanner is connected to the parallel port of the PC.

AC adapter for the laptop is on the floor.

Low channel=902.355835 MHz (Ch 0)

Mid channel=914.899597 MHz (Ch 25)

High channel=927.443359 MHz (Ch 50)

Transmitting continuously with modulation on worst case channel.

Conducted emissions 0.15-30 MHz.

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Transducer Legend:

T1=LISN - AN00493 - White - ELC "OUT"	T2=AN P00081 10dB Attenuator
T3=FIL-ANP05258-121808 CE HP Filter	T4=Cable Calibration ANP00880

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
1 685.946k 30.6 +0.0 +10.1 +0.0 +0.1 +0.0 40.8 46.0 -5.2 2 213.994k 34.6 +0.0 +10.0 +0.1 +0.1 +0.0 44.8 53.0 -8.2 3 870.655k 27.4 +0.0 +10.0 +0.1 +0.2 +0.0 37.7 46.0 -8.3 4 3.305M 26.6 +0.1 +10.0 +0.1 +0.1 +0.0 36.9 46.0 -9.1 5 2.991M 26.5 +0.1 +10.0 +0.1 +0.1 +0.0 36.8 46.0 -9.2 6 819.751k 26.3 +0.0 +10.0 +0.1 +0.1 +0.0 36.5 46.0 -9.5 7 235.810k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.2 -9.6 8 224.902k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.6 -10.0 9 452.515k 26.7 +0.0 +10.1 <td>Polar</td>	Polar
2 213.994k 34.6 +0.0 +10.0 +0.1 +0.1 +0.0 44.8 53.0 -8.2 3 870.655k 27.4 +0.0 +10.0 +0.1 +0.2 +0.0 37.7 46.0 -8.3 4 3.305M 26.6 +0.1 +10.0 +0.1 +0.1 +0.0 36.9 46.0 -9.1 5 2.991M 26.5 +0.1 +10.0 +0.1 +0.1 +0.0 36.8 46.0 -9.2 6 819.751k 26.3 +0.0 +10.0 +0.1 +0.1 +0.0 36.5 46.0 -9.5 7 235.810k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.2 -9.6 8 224.902k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.6 -10.0 9 452.515k 26.7 +0.0 +10.1 +0.0 +0.0 +0.0 36.8 46.8 -10.0	Ant
3 870.655k 27.4 +0.0 +10.0 +0.1 +0.2 +0.0 37.7 46.0 -8.3 4 3.305M 26.6 +0.1 +10.0 +0.1 +0.1 +0.0 36.9 46.0 -9.1 5 2.991M 26.5 +0.1 +10.0 +0.1 +0.1 +0.0 36.8 46.0 -9.2 6 819.751k 26.3 +0.0 +10.0 +0.1 +0.1 +0.0 36.5 46.0 -9.5 7 235.810k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.2 -9.6 8 224.902k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.6 -10.0 9 452.515k 26.7 +0.0 +10.1 +0.0 +0.0 +0.0 36.8 46.8 -10.0	White
4 3.305M 26.6 +0.1 +10.0 +0.1 +0.1 +0.0 36.9 46.0 -9.1 5 2.991M 26.5 +0.1 +10.0 +0.1 +0.1 +0.0 36.8 46.0 -9.2 6 819.751k 26.3 +0.0 +10.0 +0.1 +0.1 +0.0 36.5 46.0 -9.5 7 235.810k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.2 -9.6 8 224.902k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.6 -10.0 9 452.515k 26.7 +0.0 +10.1 +0.0 +0.0 36.8 46.8 -10.0	White
5 2.991M 26.5 +0.1 +10.0 +0.1 +0.1 +0.0 36.8 46.0 -9.2 6 819.751k 26.3 +0.0 +10.0 +0.1 +0.1 +0.0 36.5 46.0 -9.5 7 235.810k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.2 -9.6 8 224.902k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.6 -10.0 9 452.515k 26.7 +0.0 +10.1 +0.0 +0.0 +0.0 36.8 46.8 -10.0	White
6 819.751k 26.3 +0.0 +10.0 +0.1 +0.1 +0.0 36.5 46.0 -9.5 7 235.810k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.2 -9.6 8 224.902k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.6 -10.0 9 452.515k 26.7 +0.0 +10.1 +0.0 +0.0 36.8 46.8 -10.0	White
7 235.810k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.2 -9.6 8 224.902k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.6 -10.0 9 452.515k 26.7 +0.0 +10.1 +0.0 +0.0 +0.0 36.8 46.8 -10.0	White
8 224.902k 32.5 +0.0 +10.0 +0.1 +0.0 +0.0 42.6 52.6 -10.0 9 452.515k 26.7 +0.0 +10.1 +0.0 +0.0 +0.0 36.8 46.8 -10.0	White
9 452.515k 26.7 +0.0 +10.1 +0.0 +0.0 +0.0 36.8 46.8 -10.0	White
	White
10 3.977M 25.6 +0.1 +10.1 +0.1 +0.1 +0.0 36.0 46.0 -10.0	White
	White
11 4.279M 25.5 +0.1 +10.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0	White
12 4.305M 25.5 +0.1 +10.1 +0.1 +0.2 +0.0 36.0 46.0 -10.0	White
13 2.855M 25.6 +0.1 +10.0 +0.1 +0.1 +0.0 35.9 46.0 -10.1	White
14 3.897M 25.5 +0.1 +10.1 +0.1 +0.1 +0.0 35.9 46.0 -10.1	White
15 241.627k 31.6 +0.0 +10.0 +0.1 +0.0 +0.0 41.7 52.0 -10.3	White
16 1.855M 25.3 +0.0 +10.0 +0.1 +0.1 +0.0 35.5 46.0 -10.5	White
17 229.992k 31.8 +0.0 +10.0 +0.1 +0.0 +0.0 41.9 52.5 -10.6	White
18 237.264k 31.5 +0.0 +10.0 +0.1 +0.0 +0.0 41.6 52.2 -10.6	White
19 2.038M 25.1 +0.0 +10.0 +0.1 +0.2 +0.0 35.4 46.0 -10.6	White
20 2.480M 25.0 +0.1 +10.0 +0.1 +0.2 +0.0 35.4 46.0 -10.6	White
21 2.523M 25.0 +0.1 +10.0 +0.1 +0.2 +0.0 35.4 46.0 -10.6	White
22 1.545M 25.1 +0.0 +10.0 +0.1 +0.1 +0.0 35.3 46.0 -10.7	White
23 2.051M 25.0 +0.0 +10.0 +0.1 +0.2 +0.0 35.3 46.0 -10.7	White

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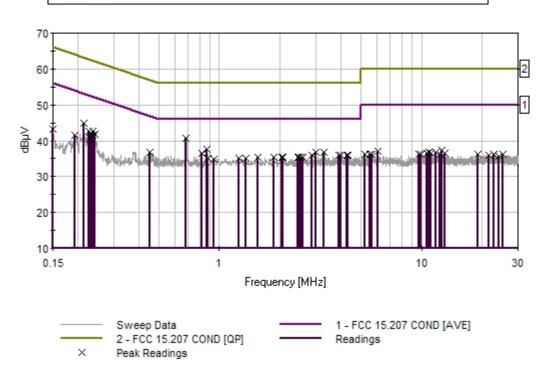
24	2.438M	25.0	+0.0	+10.0	+0.1	+0.2	+0.0	35.3	46.0	-10.7	White
25	2.591M	24.9	+0.1	+10.0	+0.1	+0.2	+0.0	35.3	46.0	-10.7	White
26	1.353M	24.8	+0.0	+10.1	+0.1	+0.1	+0.0	35.1	46.0	-10.9	White
27	877.000k	24.8	+0.0	+10.0	+0.1	+0.1	+0.0	35.0	46.0	-11.0	White
28	1.247M	24.7	+0.0	+10.1	+0.1	+0.1	+0.0	35.0	46.0	-11.0	White
29	940.795k	24.6	+0.0	+10.0	+0.1	+0.1	+0.0	34.8	46.0	-11.2	White
30	228.538k	30.5	+0.0	+10.0	+0.1	+0.0	+0.0	40.6	52.5	-11.9	White
31	192.178k	31.3	+0.0	+10.0	+0.2	+0.0	+0.0	41.5	53.9	-12.4	White
32	12.580M	27.0	+0.0	+10.0	+0.1	+0.3	+0.0	37.4	50.0	-12.6	White
33	150.000k	29.7	+0.0	+10.0	+3.4	+0.0	+0.0	43.1	56.0	-12.9	White
34	6.094M	26.5	+0.1	+10.1	+0.1	+0.2	+0.0	37.0	50.0	-13.0	White
35	10.842M	26.3	+0.0	+10.1	+0.1	+0.2	+0.0	36.7	50.0	-13.3	White
36	11.815M	26.3	+0.0	+10.0	+0.1	+0.3	+0.0	36.7	50.0	-13.3	White
37	10.680M	26.1	+0.0	+10.1	+0.1	+0.2	+0.0	36.5	50.0	-13.5	White
38	13.013M	25.9	+0.0	+10.1	+0.2	+0.3	+0.0	36.5	50.0	-13.5	White
39	11.184M	26.1	+0.0	+10.0	+0.1	+0.2	+0.0	36.4	50.0	-13.6	White
40	5.220M	26.0	+0.0	+10.0	+0.1	+0.2	+0.0	36.3	50.0	-13.7	White
41	9.662M	25.7	+0.1	+10.1	+0.1	+0.3	+0.0	36.3	50.0	-13.7	White
42	12.319M	25.9	+0.0	+10.0	+0.1	+0.3	+0.0	36.3	50.0	-13.7	White
43	25.156M	25.2	+0.4	+10.0	+0.2	+0.5	+0.0	36.3	50.0	-13.7	White
44	5.544M	25.6	+0.1	+10.1	+0.1	+0.2	+0.0	36.1	50.0	-13.9	White
45	5.716M	25.6	+0.1	+10.1	+0.1	+0.2	+0.0	36.1	50.0	-13.9	White
46	9.878M	25.5	+0.1	+10.1	+0.1	+0.3	+0.0	36.1	50.0	-13.9	White
47	18.941M	25.4	+0.2	+10.0	+0.2	+0.3	+0.0	36.1	50.0	-13.9	White
<u></u>											

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48	22.941M	25.0	+0.4	+10.1	+0.2	+0.4	+0.0	36.1	50.0	-13.9	White
49	21.517M	25.0	+0.3	+10.1	+0.2	+0.4	+0.0	36.0	50.0	-14.0	White
50	24.176M	24.7	+0.4	+10.0	+0.2	+0.5	+0.0	35.8	50.0	-14.2	White

CKC Laboratories, Inc. Date: 3/11/2009 Time: 8:44:06 AM Davis Instruments WO#: 88538 FCC 15.207 COND [AVE] Test Lead: White 120V 60Hz Sequence#: 37 White-120V





FCC PART 15.247(a)/RSS-210 20dB BANDWIDTH

Test Conditions

Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: **Davis Instruments** Specification: FCC 15.247(a)

 Work Order #:
 88538
 Date:
 3/2/2009

 Test Type:
 20dB BW
 Time:
 10:50:00

Equipment: Vantage VUE Weather Station Sequence#:

Console

Manufacturer: Davis Instruments Tested By: Art Rice

Model: 06351 S/N: Davis 1

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #	
E4446A Spectrum	US44300408	03/05/2007	03/05/2009	02668	
Analyzer					
Cable	None	04/02/2007	04/02/2009	P05299	
Cable	None	04/05/2007	04/05/2009	P05300	
Cable	None	04/21/2008	04/21/2010	P05440	<u> </u>
Antenna	2630	12/22/2008	12/22/2010	00852	
Preamp, HP8447D	2443A03707	02/09/2009	02/09/2011	00730	

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Vantage VUE Weather	Davis Instruments	06351	Davis 1
Station Console*			

Support Devices:

Function	Manufacturer	Model #	S/N
5V 300mA AC adapter	Davis Instruments	06625	none

Test Conditions / Notes:

The EUT is placed on a 1 inch thick styrofoam block on top of the wooden test table. The EUT antenna is placed in the vertical position. AC adapter is plugged into the outlet located on the turntable floor. Transmitting continuously on selected channel, with hopping disabled. Using FSK modulation at maximum data rate. RBW=1kHz, VBW=300kHz. Radiated emissions 902-928 MHz.

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Test Setup Photos



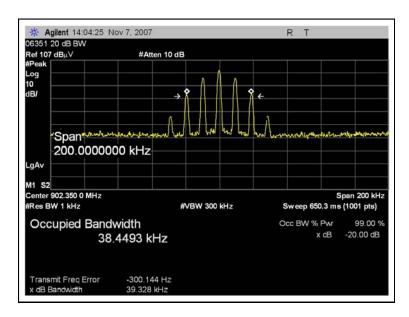


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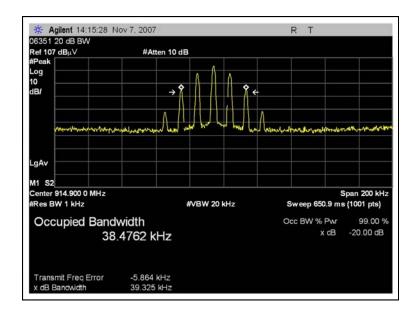


Test Plots

FCC 15.247(a) 20dB BANDWIDTH - LOW CHANNEL



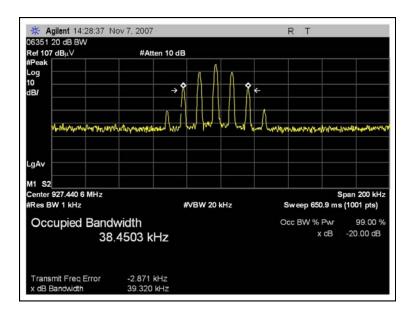
FCC 15.247(a) 20dB BANDWIDTH - MID CHANNEL



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FCC 15.247(a) 20dB BANDWIDTH - HIGH CHANNEL



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FCC PART 15.247(a)(1) CARRIER FREQUENCY SEPARATION

Test Conditions

Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: **Davis Instruments**

Specification:06351 FCC 15.247(d) spurious +15.205 bands Rad-dBuV 902-928MHzWork Order #:88538Date: 3/3/2009Test Type:Frequency hopping testsTime: 15:00:17Equipment:Vantage VUE Weather StationSequence#: 15

Console

Manufacturer: Davis Instruments Tested By: Art Rice

Model: 06351 S/N: Davis 1

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum	US44300408	03/05/2007	03/05/2009	02668
Analyzer				
Preamp, HP8447D	2443A03707	02/09/2009	02/09/2011	00730
Antenna, Bilog	2630	12/22/2008	12/22/2010	00852
Cable	None	04/21/2008	04/21/2010	P05440
Cable	None	04/05/2007	04/05/2009	P05300
Cable	None	04/02/2007	04/02/2009	P05299

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Vantage VUE Weather	Davis Instruments	06351	Davis 1
Station Console*			

Support Devices:

Function	Manufacturer	Model #	S/N
5V 300mA AC adapter	Davis Instruments	06625	none

Test Conditions / Notes:

The EUT is placed on a 1 inch thick styrofoam block on top of the wooden test table. The EUT antenna is placed in the vertical position.

AC adapter is plugged into the outlet located on the turntable floor.

Transmitting normally with "fast hopping" enabled.

Using FSK modulation at maximum data rate.

Low channel = 902.355835 MHz (Ch 0)

Mid channel = 914.899597 MHz (Ch 25)

High channel = 927.443359 MHz (Ch 50)

Note: For Time of occupancy testing (dwell time) the EUT was set for 0.5 seconds between channels in the pseudorandom hop table. Normal operation would be 2.625 seconds.

Radiated emissions 902-928 MHz.

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Test Setup Photos



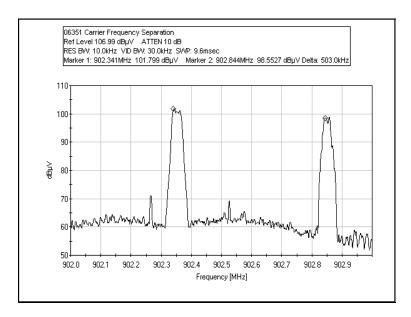


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Test Plots

FCC 15.247(a)(1) CARRIER FREQUENCY SEPARATION



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FCC PART 15.247(a)(1) NUMBER OF HOPPING CHANNELS

Test Conditions

Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: **Davis Instruments**

Specification:06351 FCC 15.247(d) spurious +15.205 bands Rad-dBuV 902-928MHzWork Order #:88538Date: 3/3/2009Test Type:Frequency hopping testsTime: 15:00:17Equipment:Vantage VUE Weather StationSequence#: 15

Console

Manufacturer: Davis Instruments Tested By: Art Rice

Model: 06351 S/N: Davis 1

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum	US44300408	03/05/2007	03/05/2009	02668
Analyzer				
Preamp, HP8447D	2443A03707	02/09/2009	02/09/2011	00730
Antenna, Bilog	2630	12/22/2008	12/22/2010	00852
Cable	None	04/21/2008	04/21/2010	P05440
Cable	None	04/05/2007	04/05/2009	P05300
Cable	None	04/02/2007	04/02/2009	P05299

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Vantage VUE Weather	Davis Instruments	06351	Davis 1
Station Console*			

Support Devices:

Function	Manufacturer	Model #	S/N
5V 300mA AC adapter	Davis Instruments	06625	none

Test Conditions / Notes:

The EUT is placed on a 1 inch thick styrofoam block on top of the wooden test table. The EUT antenna is placed in the vertical position.

AC adapter is plugged into the outlet located on the turntable floor.

Transmitting normally with "fast hopping" enabled.

Using FSK modulation at maximum data rate.

Low channel = 902.355835 MHz (Ch 0)

Mid channel = 914.899597 MHz (Ch 25)

High channel = 927.443359 MHz (Ch 50)

Note: For Time of occupancy testing (dwell time) the EUT was set for 0.5 seconds between channels in the pseudorandom hop table. Normal operation would be 2.625 seconds.

Radiated emissions 902-928 MHz.

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Test Setup Photos

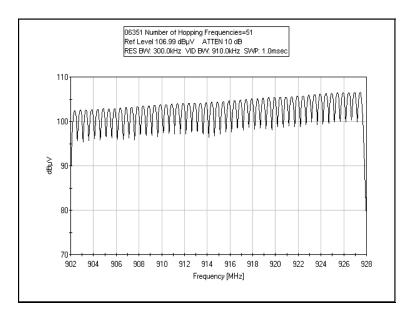






Test Plots

FCC 15.247(a)(1) NUMBER OF HOPPING FREQUENCIES



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FCC PART 15.247(a)(1) AVERAGE TIME OF OCCUPANCY

Test Conditions

Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: **Davis Instruments**

Specification:06351 FCC 15.247(d) spurious +15.205 bands Rad-dBuV 902-928MHzWork Order #:88538Date: 3/3/2009Test Type:Frequency hopping testsTime: 15:00:17Equipment:Vantage VUE Weather StationSequence#: 15

Console

Manufacturer: Davis Instruments Tested By: Art Rice

Model: 06351 S/N: Davis 1

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum	US44300408	03/05/2007	03/05/2009	02668
Analyzer				
Preamp, HP8447D	2443A03707	02/09/2009	02/09/2011	00730
Antenna, Bilog	2630	12/22/2008	12/22/2010	00852
Cable	None	04/21/2008	04/21/2010	P05440
Cable	None	04/05/2007	04/05/2009	P05300
Cable	None	04/02/2007	04/02/2009	P05299

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Vantage VUE Weather	Davis Instruments	06351	Davis 1
Station Console*			

Support Devices:

Function	Manufacturer	Model #	S/N
5V 300mA AC adapter	Davis Instruments	06625	none

Test Conditions / Notes:

The EUT is placed on a 1 inch thick styrofoam block on top of the wooden test table. The EUT antenna is placed in the vertical position.

AC adapter is plugged into the outlet located on the turntable floor.

Transmitting normally with "fast hopping" enabled.

Using FSK modulation at maximum data rate.

Low channel = 902.355835 MHz (Ch 0)

Mid channel = 914.899597 MHz (Ch 25)

High channel = 927.443359 MHz (Ch 50)

Note: For Time of occupancy testing (dwell time) the EUT was set for 0.5 seconds between channels in the pseudorandom hop table. Normal operation would be 2.625 seconds.

Radiated emissions 902-928 MHz.

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Note this was tested in "fast hopping mode" which has 0.5 sec delay between the channels in the pseudo-random hop table. In normal operation that value would be 2.625 seconds. It appears that the maximum number of full amplitude transmissions was 3 in a 20 second period. The other pulses were at lower amplitude, so were probably adjacent channel noise, due to the RBW=1 MHz. 3 x 6.74mS=20.22mS. The limit is 0.4 seconds, so the 06351 passes this test. Plot #10 is a representative sample.

Test Setup Photos

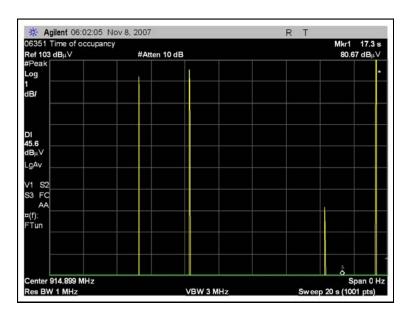




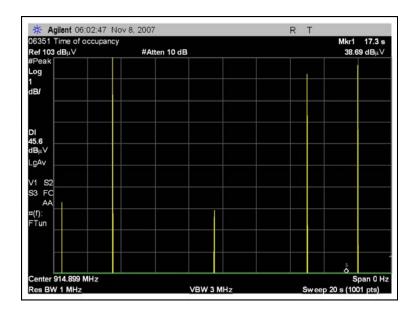


Test Plots

FCC 15.247(a)(1) AVERAGE TIME OF OCCUPANCY



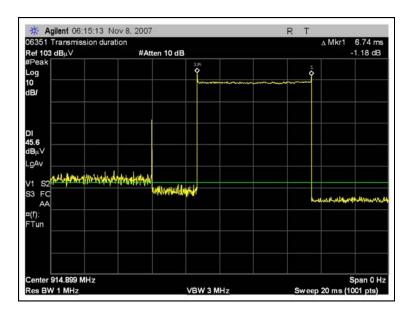
FCC 15.247(a)(1) AVERAGE TIME OF OCCUPANCY



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FCC 15.247(a)(1) TRANSMISSION DURATION



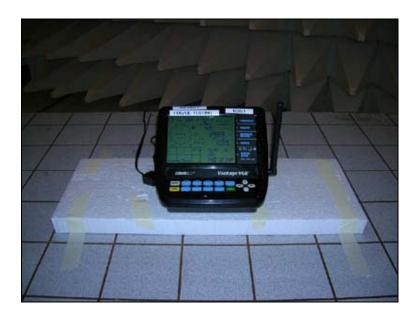
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FCC 15.247(b)(2) RF POWER OUTPUT

Test Setup Photos





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Test Data

Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: **Davis Instruments**

Specification: FCC 15.247(b)(2) / 15.209 / 15.205

 Work Order #:
 88538
 Date:
 3/2/2009

 Test Type:
 Transmitter ERP
 Time:
 10:50:00

Equipment: Vantage VUE Weather Station Sequence#: 1

Console

Manufacturer: Davis Instruments Tested By: Art Rice

Model: 06351 S/N: Davis 1

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #	
E4446A Spectrum	US44300408	03/05/2007	03/05/2009	02668	
Analyzer					
Cable	None	04/02/2007	04/02/2009	P05299	
Cable	None	04/05/2007	04/05/2009	P05300	
Cable	None	04/21/2008	04/21/2010	P05440	
Antenna	2630	12/22/2008	12/22/2010	00852	
Preamp, HP8447D	2443A03707	02/09/2009	02/09/2011	00730	

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
Vantage VUE Weather	Davis Instruments	06351	Davis 1	
Station Console*				

Support Devices:

Function	nction Manufacturer		S/N	
5V 300mA AC adapter	Davis Instruments	06625	none	

Test Conditions / Notes:

The EUT is placed on a 1 inch thick styrofoam block on top of the wooden test table. The EUT antenna is placed in the vertical position.

AC adapter is plugged into the outlet located on the turntable floor.

Transmitting continuously on selected channel, with hopping disabled.

Using FSK modulation at maximum data rate.

The transmitter ERP limit is based on stated 2dBi gain antenna with maximum conducted power of 1 watt or 30 dBm.

RBW=100kHz, VBW=300kHz.

Radiated emissions 902-928 MHz.

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Test Calculations

The following calculation was used in accordance with DA 00-705 procedures in order to obtain the transmitter conducted output power:

 $P = (E*d)^2 / (30*G)$

E: Is the field strength in V/m

G: Is the numeric gain of the transmitting antenna with reference to an isotropic radiator.

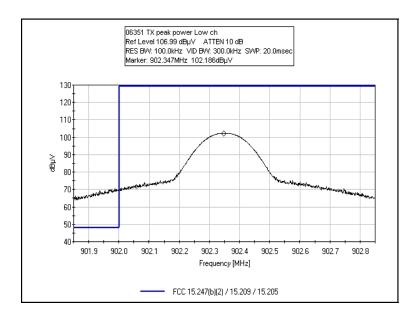
d: Is the distance at which the measurement is being executed.

The antenna gain used for this calculation was 2.0 dBi.

Frequency	dBm	Limit	Results
902.347	2.923	30	Pass
914.900	3.923	30	Pass
927.428	5.623	30	Pass

Antenna polarity: Vertical

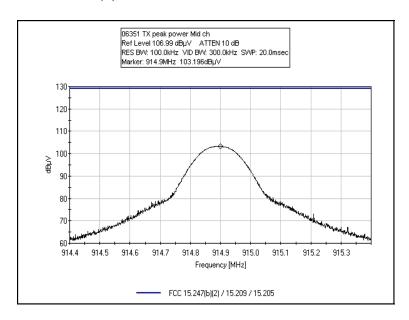
FCC 15.247(b) TX POWER - LOW CHANNEL



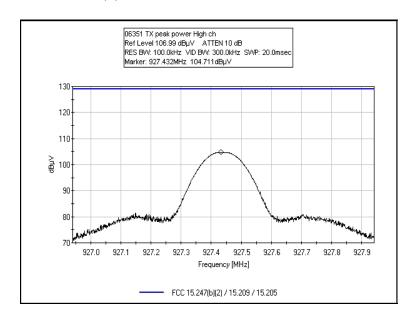
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FCC 15.247(b) TX POWER - MID CHANNEL



FCC 15.247(b) TX POWER - HIGH CHANNEL



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FCC 15.247(d) OATS RADIATED SPURIOUS EMISSIONS

Test Setup Photos





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Test Data Sheets

Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: **Davis Instruments**

Specification: FCC 15.247(b)(2) / 15.209 / 15.205

Work Order #: 88538 Date: 3/3/2009
Test Type: Maximized Emissions Time: 11:19:40
Equipment: Vantage VUE Weather Station Sequence#: 14

Console

Manufacturer: Davis Instruments Tested By: Art Rice

Model: 06351 S/N: Davis 1

Test Equipment:

тем Едигртені:				
Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum Analyzer	US44300408	03/05/2007	03/05/2009	02668
Horn - DRG-118A	1064	01/09/2009	01/09/2011	02061
Cable - HF - 32022-2-29094K-	n/a	02/04/2008	02/04/2010	03015
24TC				
Cable HF FSJ1P-50A-4	HOL-HF-025-06	05/06/2008	05/06/2010	P05138
Cable, HF	n/a	05/06/2008	05/06/2010	P04241
HF Pre-Amp - 83051A	00323	02/05/2008	02/05/2010	02810
1.5GHz HP Filter	PN 84300-80037	04/01/2008	04/01/2010	P01415
Preamp, HP8447D	2443A03707	02/09/2009	02/09/2011	00730
Antenna, Bilog	2630	12/22/2008	12/22/2010	00852
Cable	None	04/21/2008	04/21/2010	P05440
Cable	None	04/05/2007	04/05/2009	P05300
Cable	None	04/02/2007	04/02/2009	P05299
Mag Loop - 6502	2078	06/11/2007	06/11/2009	00432

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Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Vantage VUE Weather	Davis Instruments	06351	Davis 1
Station Console*			

Support Devices:

Function	Manufacturer	Model #	S/N
5V 300mA AC adapter	Davis Instruments	06625	none

Test Conditions / Notes:

The EUT is placed on a 1 inch thick styrofoam block on top of the wooden test table. The EUT antenna is placed in the vertical position.

AC adapter is plugged into the outlet located on the turntable floor.

Transmitting continuously on selected channel, with hopping disabled.

Using FSK modulation at maximum data rate.

Low channel=902.355835 MHz (Ch 0)

Mid channel=914.899597 MHz (Ch 25)

High channel=927.443359 MHz (Ch 50)

RBW=100kHz, VBW=300kHz except in restricted bands, where CISPR BW are used for final measurements.

10-150kHz RBW=200Hz, 0.15-30MHz RBW=9kHz

FCC 15.209 spec limit used below 30 MHz. Transmitting on worst case TX output high channel for readings below 30 MHz.

Transmitting on Low, Mid or High channel

Radiated emissions 30kHz-9500 MHz.

Transducer Legend:

T1=ANT AN00852 25-1000MHz	T2=Cable Calibration ANP05440
T3=Cable Calibration ANP05299	T4=Cable Calibration ANP05300
T5=AMP-AN00730-020909 .01-1000	T6=AMP-AN02810-020508
T7=ANT AN02061 900MHz-18.5GHz	T8=CAB-AN03015-020408
T9=CAB-ANP04241-050608	T10=CAB-ANP05138-050608
T11=HPF AN01415 1.5GHz	T12=Mag Loop - AN 00432- 9kHz-30M

Measu	ırement Data:	Re	Reading listed by margin. Test Distance: 3 Meters								
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	_	_	T5	T6	T7	T8			_	_	
			T9	T10	T11	T12					
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\muV/m$	dB	Ant
1	5414.115M	38.4	+0.0	+0.0	+0.0	+0.0	+0.0	52.7	54.0	-1.3	Vert
	Ave		+0.0	-26.2	+34.2	+0.8	350		Low ch,		109
			+1.3	+4.0	+0.2				RBW=1M	Hz	
^	5414.104M	41.2	+0.0	+0.0	+0.0	+0.0	+0.0	55.5	54.0	+1.5	Vert
			+0.0	-26.2	+34.2	+0.8	350		Low ch,		109
			+1.3	+4.0	+0.2				RBW=1M	Hz	
3	8121.159M	29.3	+0.0	+0.0	+0.0	+0.0	+0.0	50.8	54.0	-3.2	Vert
	Ave		+0.0	-24.8	+38.6	+0.9	21		Low ch,		143
			+1.5	+4.9	+0.4				RBW=1M	Hz	
^	8121.156M	34.8	+0.0	+0.0	+0.0	+0.0	+0.0	56.3	54.0	+2.3	Vert
			+0.0	-24.8	+38.6	+0.9	21		Low ch,		143
			+1.5	+4.9	+0.4				RBW=1M	Hz	

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S 8234.063M											
1.5	5 8234.063M	26.7						48.3	54.0	-5.7	
*** 8233.991M**	Ave		+0.0		+38.5	+1.0	333				130
Hole			+1.5	+5.0	+0.4					Hz	
Tolerand	^ 8233.991M	33.3		+0.0		+0.0		54.9	54.0	+0.9	Vert
7 8346.951M 24.0 +0.0			+0.0		+38.5	+1.0	333				131
Ave			+1.5	+5.0	+0.4						
No. No.	7 8346.951M	24.0						45.5	54.0	-8.5	
*** 8346.869M	Ave		+0.0			+1.0	329				132
High ch, 132 High ch, 132 RBW=IMHz 102 102 102 102 102 102 102 102 102 103 102 103			+1.5	+4.9	+0.5				RBW=1M		
1.5	^ 8346.869M	32.0						53.5		-0.5	
9 37.670M						+1.0	329				132
10 8423.500M					+0.5					Hz	
10 8423.500M 19.9	9 37.670M	40.6						28.9			
10 8423.500M						+0.0	24		RBW=120	kHz	102
Ave +0.0 -24.8 +38.4 +1.0 28 Mid ch, noise floor, RBW=IMHz 130 ^ 8423.502M 30.3 +0.0 +0.0 +0.0 +0.0 +0.0 52.0 54.0 -2.0 Vert Mid ch, noise floor, 130 12 8405.800M 19.8 +0.0 +0.0 +0.0 +0.0 +0.0 40.0 40.0 41.5 54.0 -12.5 Vert High ch, noise floor, 130 Ave +0.0 -24.8 +38.4 +1.0 +0.0 40.0 41.5 54.0 -12.5 Vert High ch, noise floor, 132 **Ave +0.0 -24.8 +38.4 +1.0 +0.0 40.0 40.0 53.2 54.0 -12.5 Vert High ch, noise floor, 8BW=1MHz ***** 8405.813M 31.5 +0.0 +0.0 +0.0 +0.0 53.2 54.0 -0.8 Vert High ch, noise floor, 8BW=1MHz ***** 14 610.306k 33.8 +0.0 +0.0 +0.0 +0.0 3.7 31.9 -28.2 Vert High ch, noise floor, 8BW=1MHz <											
1.6		19.9						41.6			
^ 8423.502M 30.3 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 Ho.0 -24.8 +38.4 +1.0 28 58.0 54.0 -2.0 Vert Mid ch, noise floor, RBW=IMHz 12 8405.800M 19.8 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 Ho.0 +0.0 +0.0 +0.0 High ch, noise floor, RBW=IMHz 132 Ave +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 Ho.0 +0.0 +	Ave					+1.0	28				130
Hole											
12 8405.800M	^ 8423.502M	30.3						52.0			
12 8405.800M						+1.0	28				130
Ave +0.0 +1.6 +5.0 +5.0 +0.5 +38.4 +1.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0											
+1.6		19.8					+0.0	41.5			
^ 8405.813M 31.5	Ave					+1.0			-		132
High ch, noise 132 132 14 610.306k 33.8 +0.0											
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	^ 8405.813M	31.5					+0.0	53.2			
14 610.306k 33.8 +0.0 +0.0 +0.0 +0.0 -40.0 3.7 31.9 -28.2 Vert QP +0.0 +0.0 +0.0 +0.0 +0.0 180 31.9 -28.2 Vert 100 +0.0 +0.0 +0.0 +0.0 +9.9 31.9 -23.2 Vert 100 +0.0 +0.0 +0.0 +0.0 -40.0 8.7 31.9 -23.2 Vert 100 +0.0 +0.0 +0.0 +0.0 180 31.9 -23.2 Vert 100 +0.0 +0.0 +0.0 +0.0 180 31.9 -23.2 Vert 100 +0.0 +0.0 +0.0 +0.0 180 33.1 -23.2 Vert 100 +0.0 +0.0 +0.0 +0.0 -40.0 48.8 33.1 -28.3 Vert QP +0.0 +0.0 +0.0 +0.0 +0.0 -40.0 9.8 33.1 -23.3 Vert 100 +0.0 +0.0 +0.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td>+1.0</td> <td></td> <td></td> <td>-</td> <td></td> <td>132</td>						+1.0			-		132
QP +0.0 +0.0 +0.0 +0.0 +0.0 +9.9 ^ 610.333k 38.8 +0.0 +0.0 +0.0 +0.0 +0.0 -23.2 Vert +0.0 +0.0 +0.0 +0.0 +0.0 180 100 16 533.500k 35.1 +0.0 +0.0 +0.0 +0.0 +40.0 48.8 33.1 -28.3 Vert QP +0.0 +0.0 +0.0 +0.0 +7.0					+0.5						
+0.0 +0.0 +0.0 +9.9 ^ 610.333k		33.8						3.7	31.9	-28.2	
^ 610.333k 38.8 +0.0 +0.0 +0.0 +0.0 -40.0 8.7 31.9 -23.2 Vert +0.0 +0.0 +0.0 +0.0 +0.0 180 100 16 533.500k 35.1 +0.0 +0.0 +0.0 +0.0 -40.0 48 33.1 -28.3 Vert QP +0.0 +0.0 +0.0 +0.0 73 100 ^ 533.336k 40.1 +0.0 +0.0 +0.0 -40.0 9.8 33.1 -23.3 Vert +0.0 +0.0 +0.0 +0.0 -40.0 9.8 33.1 -23.3 Vert 100 +0.0 +0.0 +0.0 -40.0 9.8 33.1 -23.3 Vert +0.0 +0.0 +0.0 +0.0 73 33.8 -23.3 Vert 18 491.605k 35.8 +0.0 +0.1 +0.0 +0.0 -40.0 5.5 33.8 -28.3 Horiz QP +0.0 +0.0 +0.0 +0.0 +0.0 -40.0	QP						180				100
Ho											
16 533.500k 35.1 +0.0 +0.0 +0.0 +0.0 +0.0 -40.0 4.8 33.1 -28.3 Vert QP	^ 610.333k	38.8						8.7	31.9	-23.2	
16 533.500k QP							180				100
QP +0.0 +0.0 +0.0 +0.0 +0.0 73 100 ^ 533.336k 40.1 +0.0 +0.0 +0.0 +0.0 -40.0 9.8 33.1 -23.3 Vert +0.0 +0.0 +0.0 +0.0 +0.0 73 33.1 -23.3 Vert +0.0 +0.0 +0.0 +0.0 +0.0 73 33.1 -23.3 Vert 100 +0.0 +0.0 +0.0 +0.0 73 33.8 -28.3 Horiz QP +0.0 +0.0 +0.0 +0.0 104 5.5 33.8 -28.3 Horiz 100 +0.0 +0.0 +0.0 +0.0 104 11.3 33.8 -28.3 Horiz 100 +0.0 +0.0 +0.0 +0.0 10.0 11.3 33.8 -22.5 Horiz 100 +0.0 +0.0 +0.0 +0.0 104 11.3 33.8 -22.5 Horiz 100 +0.0 +0.0 +0.0 +0.0 104 11.3 <td></td> <td></td> <td></td> <td></td> <td>+0.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					+0.0						
+0.0 +0.0 +0.0 +9.7 ^ 533.336k		35.1						4.8	33.1	-28.3	
^ 533.336k 40.1 +0.0 +0.0 +0.0 +0.0 -40.0 9.8 33.1 -23.3 Vert +0.0 +0.0 +0.0 +0.0 +0.0 73 100 18 491.605k 35.8 +0.0 +0.1 +0.0 +0.0 -40.0 5.5 33.8 -28.3 Horiz QP +0.0 +0.0 +0.0 +0.0 104 100 ^ 491.457k 41.6 +0.0 +0.1 +0.0 +0.0 -40.0 11.3 33.8 -22.5 Horiz +0.0 +0.0 +0.0 +0.0 104 11.3 33.8 -22.5 Horiz	QP						73				100
18 491.605k 35.8 +0.0 +0.0 +0.0 +0.0 +0.0 -40.0 5.5 33.8 -28.3 Horiz QP +0.0 +0.0 +0.0 +0.0 +0.0 104 100 ^ 491.457k 41.6 +0.0 +0.1 +0.0 +0.0 +0.0 -40.0 11.3 33.8 -22.5 Horiz +0.0 +0.0 +0.0 +0.0 104 100 100											
+0.0 +0.0 +0.0 +9.7 18 491.605k 35.8 +0.0 +0.1 +0.0 +0.0 -40.0 5.5 33.8 -28.3 Horiz QP +0.0 +0.0 +0.0 +0.0 104 100 +0.0 +0.0 +0.0 +9.6 ^ 491.457k 41.6 +0.0 +0.1 +0.0 +0.0 -40.0 11.3 33.8 -22.5 Horiz +0.0 +0.0 +0.0 +0.0 104 100	^ 533.336k	40.1						9.8	33.1	-23.3	
18 491.605k							73				100
QP											
+0.0 +0.0 +0.0 +9.6 ^ 491.457k 41.6 +0.0 +0.1 +0.0 +0.0 -40.0 11.3 33.8 -22.5 Horiz +0.0 +0.0 +0.0 +0.0 104 100		35.8						5.5	33.8	-28.3	
^ 491.457k	QP						104				100
+0.0 +0.0 +0.0 +0.0 104						+9.6					
	^ 491.457k	41.6						11.3	33.8	-22.5	
+0.0 +0.0 +0.0 +9.6							104				100
			+0.0	+0.0	+0.0	+9.6					

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20 529.450k	35.0	+0.0	+0.0	+0.0	+0.0	-40.0	4.7	33.1	-28.4	Horiz
QP		+0.0	+0.0	+0.0	+0.0	358				100
		+0.0	+0.0	+0.0	+9.7					
^ 529.432k	40.3	+0.0	+0.0	+0.0	+0.0	-40.0	10.0	33.1	-23.1	Horiz
		+0.0	+0.0	+0.0	+0.0	358				100
		+0.0	+0.0	+0.0	+9.7					
22 980.344k	27.6	+0.0	+0.1	+0.1	+0.0	-40.0	-1.8	27.7	-29.5	Horiz
QP		+0.0	+0.0	+0.0	+0.0	249				100
		+0.0	+0.0	+0.0	+10.4					
^ 980.232k	32.4	+0.0	+0.1	+0.1	+0.0	-40.0	3.0	27.7	-24.7	Horiz
		+0.0	+0.0	+0.0	+0.0	250				100
		+0.0	+0.0	+0.0	+10.4					
24 402.453k	37.1	+0.0	+0.1	+0.1	+0.0	-80.0	-33.0	15.5	-48.5	Horiz
QP		+0.0	+0.0	+0.0	+0.0	108				100
		+0.0	+0.0	+0.0	+9.7					
^ 402.398k	42.3	+0.0	+0.1	+0.1	+0.0	-80.0	-27.8	15.5	-43.3	Horiz
		+0.0	+0.0	+0.0	+0.0	107				100
		+0.0	+0.0	+0.0	+9.7					
26 233.715k	41.7	+0.0	+0.1	+0.0	+0.1	-80.0	-28.3	20.2	-48.5	Vert
QP		+0.0	+0.0	+0.0	+0.0	295				100
		+0.0	+0.0	+0.0	+9.8					
^ 233.734k	46.8	+0.0	+0.1	+0.0	+0.1	-80.0	-23.2	20.2	-43.4	Vert
		+0.0	+0.0	+0.0	+0.0	295				100
		+0.0	+0.0	+0.0	+9.8					
28 209.403k	42.4	+0.0	+0.1	+0.0	+0.1	-80.0	-27.5	21.2	-48.7	Vert
QP		+0.0	+0.0	+0.0	+0.0	228				100
		+0.0	+0.0	+0.0	+9.9					
^ 209.328k	47.6	+0.0	+0.1	+0.0	+0.1	-80.0	-22.3	21.2	-43.5	Vert
		+0.0	+0.0	+0.0	+0.0	228				100
		+0.0	+0.0	+0.0	+9.9					
30 372.850k	37.6	+0.0	+0.1	+0.1	+0.0	-80.0	-32.5	16.2	-48.7	Vert
QP		+0.0	+0.0	+0.0	+0.0	73				100
		+0.0	+0.0	+0.0	+9.7					
^ 372.721k	42.6	+0.0	+0.1	+0.1	+0.0	-80.0	-27.5	16.2	-43.7	Vert
		+0.0	+0.0	+0.0	+0.0	73				100
		+0.0	+0.0	+0.0	+9.7					
32 255.345k	40.8	+0.0	+0.1	+0.1	+0.0	-80.0	-29.3	19.5	-48.8	Horiz
QP		+0.0	+0.0	+0.0	+0.0	4				100
		+0.0	+0.0	+0.0	+9.7					
^ 255.320k	45.7	+0.0	+0.1	+0.1	+0.0	-80.0	-24.4	19.5	-43.9	Horiz
		+0.0	+0.0	+0.0	+0.0	4				100
		+0.0	+0.0	+0.0	+9.7					

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FCC PART 15.247(d) BANDEDGE

Test Setup Photos





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Test Data

Test Location: CKC Laboratories, Inc. •1120 Fulton Place • Fremont, CA 94539 • 510-249-1170

Customer: **Davis Instruments**

Specification: 06351 FCC 15.247(d) spurious +15.205 bands Rad-dBuV 902-928MHz
Work Order #: Date: 3/3/2009
Test Type: Band Edge Measurements Time: 09:26:02
Equipment: Vantage VUE Weather Station Sequence#: 10

Console

Manufacturer: Davis Instruments Tested By: Art Rice

Model: 06351 S/N: Davis 1

Test Equipment:

1 1				
Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A Spectrum	US44300408	03/05/2007	03/05/2009	02668
Analyzer				
Preamp, HP8447D	2443A03707	02/09/2009	02/09/2011	00730
Antenna, Bilog	2630	12/22/2008	12/22/2010	00852
Cable	None	04/21/2008	04/21/2010	P05440
Cable	None	04/05/2007	04/05/2009	P05300
Cable	None	04/02/2007	04/02/2009	P05299

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
Vantage VUE Weather	Davis Instruments	06351	Davis 1	
Station Console*				

Support Devices:

Function	Manufacturer	Model #	S/N
5V 300mA AC adapter	Davis Instruments	06625	none

Test Conditions / Notes:

The EUT is placed on a 1 inch thick styrofoam block on top of the wooden test table. The EUT antenna is placed in the vertical position.

AC adapter is plugged into the outlet located on the turntable floor.

Using FSK modulation at maximum data rate.

Low channel=902.355835 MHz (Ch 0)

Mid channel=914.899597 MHz (Ch 25)

High channel=927.443359 MHz (Ch 50)

Band edges checked in two modes per FCC DA 00-705:

- 1) Transmitting continuously on selected channel, with hopping disabled.
- 2) Transmitting while hopping: "Fast FCC hop mode" with 0.5 sec between hops.

RBW=30kHz, VBW=91kHz.

Radiated emissions 898-932 MHz.

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Transducer Legend:
T1=ANT AN00852 25-1000MHz T3=Cable Calibration ANP05299 T5=AMP-AN00730-020909 .01-1000

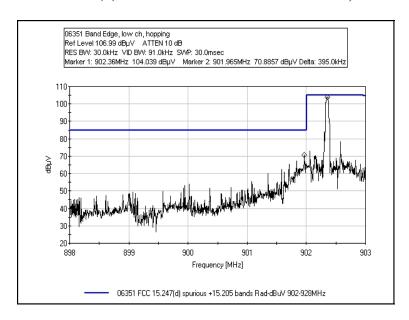
T2=Cable Calibration ANP05440 T4=Cable Calibration ANP05300

Measur	ement Data:	Re	Reading listed by margin.			Test Distance: 3 Meters					
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
			T5								
	MHz	dΒμV	dB	dB	dB	dB	Table	$dB\mu V/m$	dBμV/m	dB	Ant
1	927.435M	105.8	+23.0	+1.9	+0.2	+0.7	+0.0	104.1	104.2	-0.1	Vert
			-27.5				113		High ch, he	opping	112
2	902.360M	104.0	+22.5	+1.9	+0.3	+0.8	+0.0	102.1	103.0	-0.9	Vert
			-27.4				113		Low ch, ho	pping	112
3	927.445M	101.9	+23.0	+1.9	+0.2	+0.7	+0.0	100.2	103.0	-2.8	Vert
			-27.5				113		High ch, no	ot	112
									hopping		
4	902.355M	101.6	+22.5	+1.9	+0.3	+0.8	+0.0	99.7	103.0	-3.3	Vert
			-27.4				114		Low ch, no	ot	112
									hopping		
5	901.965M	70.9	+22.5	+1.9	+0.3	+0.8	+0.0	69.0	83.0	-14.0	Vert
			-27.4				113		Low ch, ba	ınd edge,	112
									hopping.		
6	901.995M	65.4	+22.5	+1.9	+0.3	+0.8	+0.0	63.5	83.0	-19.5	Vert
			-27.4				114		Low ch, ba	•	112
									not hoppin		
7	928.005M	62.5	+23.0	+1.9	+0.2	+0.7	+0.0	60.8	83.0	-22.2	Vert
			-27.5				113		High ch, ba	_	112
									not hoppin	g	
8	928.400M	61.9	+23.0	+1.9	+0.2	+0.7	+0.0	60.2	83.0	-22.8	Vert
			-27.5				113		High ch, ba	and edge,	112
									hopping		

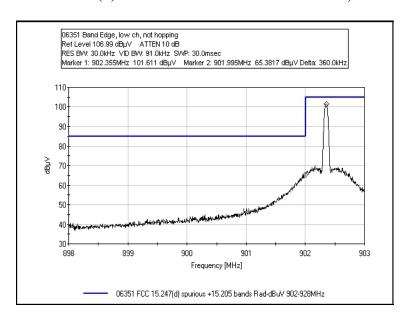
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FCC 15.247(d) BANDEDGE - LOW CHANNEL, HOPPING



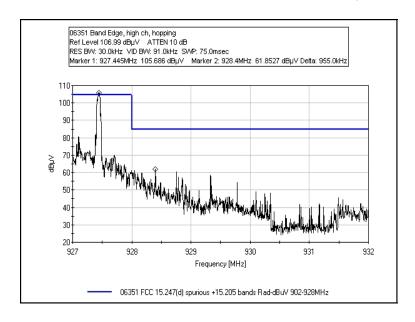
FCC 15.247(d) BANDEDGE - LOW CHANNEL, NOT HOPPING



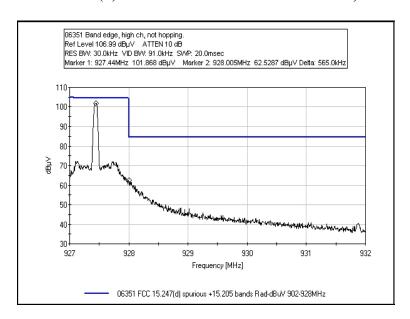
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FCC 15.247(d) BANDEDGE - HIGH CHANNEL, HOPPING



FCC 15.247(d) BANDEDGE - HIGH CHANNEL, NOT HOPPING



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