



Test Report: 5R36568

Applicant: BlueTree Wireless Data Inc.
2425 46th Avenue
Lachine, Quebec
Canada
H8T 3C9

Equipment Under Test: BT4200 IP series and BT5200 GPS Series; BT4400 IP series and BT5400 GPS Series

Model Number: BT4200, BT4400, BT5200, BT5400

In Accordance With: **FCC 47 CFR Part 15, Subpart B**
Verification

Tested By: Nemko Canada Inc.
303 River Road, R.R. 5
Ottawa, Ontario K1V 1H2

A handwritten signature in blue ink, appearing to read 'David Duchesne', is written over the signature line.

Authorized By: David Duchesne, EMC Specialist

Date: 25 January 2005

Total Number of Pages: 28



Nemko Canada Inc., Ottawa, Ontario
Canada

Reference Standard: FCC 47 CFR Part 15, Subpart B

Test Report No: 5R36568

Equipment (EUT): BT4200 IP series and BT5200 GPS Series;
BT4400 IP series and BT5400 GPS Series

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	Equipment (EUT): BT4200 IP series and BT5200 GPS Series; BT4400 IP series and BT5400 GPS Series

Measurement Uncertainty

Accuracy of Measurement		
Measurement uncertainty was calculated using the methods described in CISPR 16-4 <i>Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC measurements</i> and Nemko Canada Inc. procedure EMC/MUC/001 <i>Uncertainty in EMC Measurements</i> .		
Test Specific Measurement Uncertainty		
Measurement	Test Specification	Ulab
Conducted disturbance	9kHz – 150kHz	4.0dB
	150kHz – 30MHz	3.6dB
Radiated disturbance	30MHz – 200MHz Horizontal polarization	4.7dB
	200MHz – 1000MHz Horizontal polarization	4.7dB
	30MHz – 200MHz Vertical polarization	4.9dB
	200MHz – 1000MHz Vertical polarization	4.9dB

Lab Environmental Conditions

Lab Conditions
Ambient Temperature: 15°C to 35°C, Relative Humidity: 30% to 60%, Atmospheric Pressure: 86kPa (860mbar) to 106kPa (1 060mbar)

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Declaration

Product Name: BT4200 IP series and BT5200 GPS Series; BT4400 IP series and BT5400 GPS Series		
Model No: BT4200, BT4400, BT5200, BT5400		
 Trademark: WIRELESS DATA INC.		
Serial No: None		
Name of Applicant: BlueTree Wireless Data Inc.		
Name of Manufacturer: BlueTree Wireless Data Inc.		
 Nemko Canada Inc., Ottawa, Ontario Canada	TEST RESULT	
	PASS	FAIL
In the configuration tested, the EUT complied with the requirements of: FCC 47 CFR Part 15, Subpart B for Class B, Digital Devices.	X	
Note: See Summary of Test Results and Engineering Considerations for full details.		
Tested by:  Signature <u>Daniel Hynes, EMC Specialist</u>	<u>25 January 2005</u> Date	
Reviewed by:  Signature <u>David Duchesne, EMC Specialist</u>	<u>25 January 2005</u> Date	
Nemko Canada Inc., a testing laboratory, is accredited by the Standards Council of Canada. The tests included in this report are within the scope of this accreditation.		

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Summary of Test Results

General			
These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15, Subpart B for Digital Devices.			
These tests were conducted using measurement procedures of ANSI C63.4-2001.			
The equipment was tested for conducted emissions from 0.15MHz to 30MHz using a 50 microhenry line impedance stabilization network (L.I.S.N.) as described in ANSI C63.4-2001. Peripheral equipment was also operated through a 50 microhenry L.I.S.N.			
Limits For Conducted Disturbance At The Mains Ports: Paragraph No. 15.107 for Class A			
Frequency Range MHz	Limits dB(μV)		Result (Pass/Fail)
	Quasi-Peak	Average	
0.15 to 0.50	79	66	N/A
0.50 to 30	73	60	
Limits For Conducted Disturbance At The Mains Ports: Paragraph No. 15.107 for Class B			
Frequency Range MHz	Limits dB(μV)		Result (Pass/Fail)
	Quasi-Peak	Average	
0.15 to 0.50	66 to 56	56 to 46	Pass
0.5 to 5	56	46	
5 to 30	60	50	
Notes			
1. The lower limit shall apply at the transition frequency.			
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50MHz.			

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Summary of Test Results, continued

Limits For Radiated Disturbance: Paragraph No. 15.109		
Frequency Range MHz	Limits For Radiated Disturbance At A Measuring Distance Of 10 Meters Class A	
	Quasi-Peak Limits dB (μV/m)	Result (Pass/Fail)
30 - 88	39.1	N/A
88 - 216	43.5	
216 - 960	46.4	
Above 960	49.5	
Frequency Range MHz	Limits For Radiated Disturbance At A Measuring Distance Of 3 Meters Class B	
	Quasi-Peak Limits dB (μV/m)	Result (Pass/Fail)
30 - 88	40.0	Pass
88 - 216	43.5	
216 - 960	46.0	
Above 960	54.0	
Notes		
1. The lower limit shall apply at the transition frequency.		
2. Additional provisions may be required for cases where interference occurs.		
The spectrum was investigated from 30MHz up to the frequency shown in the following table based on the highest operating frequency used in the EUT		
The highest operational frequency used in the EUT was 32.768MHz.		
Highest Frequency Generated or Used in the Device Which the Device Operates or Tunes (MHz)		Upper Frequency of Measurement Range (MHz)
Below 1.075		30
1.705 – 108		1000
108 – 500		2000
500 – 1000		5000
Above 1000		5 th harmonic of the highest frequency or 40GHz, whichever is lower.

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Engineering Considerations

Product Modification	
To achieve compliance the following change(s) were made during compliance testing: None	
Justification	
The EUT is able to work with two modulation schemes, CDMA and GSM. The CDMA module model numbers are BT-4200 and BT-5200. The GSM module model numbers are BT-4400 and BT-5400. All units contain the same circuit board with a differing RF chip for either CDMA or GSM. The units selected to be worst case for test were the BT-5200 and BT-5400 since these units contain additional circuitry to allow for GPS. The EUT was assessed for conducted emissions using two power supplies. The power supplies were (1) GlobTek, Inc. Power Supply M/N #GT-21089-1512-T3 and (2) MODE Electronics Power Supply M/N #DV-1250. Conducted emissions data for both power supplies have been included in this report.	
Deviations	
The following deviations from, additions to, or exclusions from the test specification have been made: Radiated emissions were measured at a distance of 10 meters. The limit has been extrapolated to show compliance.	
Test Report Revision History	
Issue #	Details of changes made to test report
-	Original Report Issued
N/A	N/A
N/A	N/A
N/A	N/A

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	Equipment (EUT): BT4200 IP series and BT5200 GPS Series; BT4400 IP series and BT5400 GPS Series

General Information Regarding the Equipment Under Test (EUT)

Date Received In Laboratory:	January 17, 2005
Nemko Identification Number:	Refer to Nemko Canada receiving report.
EUT Mains Input Voltage and Frequency	
Voltage: 120VAC Frequency: 60Hz	
Description & Theory of Operation	
The BT4200/5200 wireless modems provide reliable instant access to information. The unit is a fully integrated CDMA modem, which adds wireless 1XRTT functionality to remote and mobile applications. This modem also features GPS location capability. The BT4400/5400 wireless modems provide reliable instant access to information. The unit is a fully integrated GSM modem, which adds wireless GPRS functionality to remote and mobile applications. This modem also features GPS location capability.	
EUT Clock and Operational Frequencies	
18.432MHz, 25.000MHz, 32.768MHz	
Exercise/Monitoring method	
The wireless modems BT4200/4400/5200/5400 connects to the wireless network the same way a cell phone does. Each modem requires an active account on the wireless network (Rogers (GSM) and Bell Mobility (CDMA)). During Radiated Emission testing each port is being exercised as described below. Dual band cellular antenna (Tx/Rx) is continuously communicating with wireless network GPS receiver antenna is continuously acquiring information transmitted from GPS Satellite. Ethernet connection is continuously requesting information from IP address 216.239.39.99 using ping command. DB9 Serial port is the link between the laptop and wireless modem downloading GPS information. I/O interface (Analog, Digital) are being lopped back using switching relay. USB not being exercised.	
Software Version	
Not available. Test software was used for certification testing.	

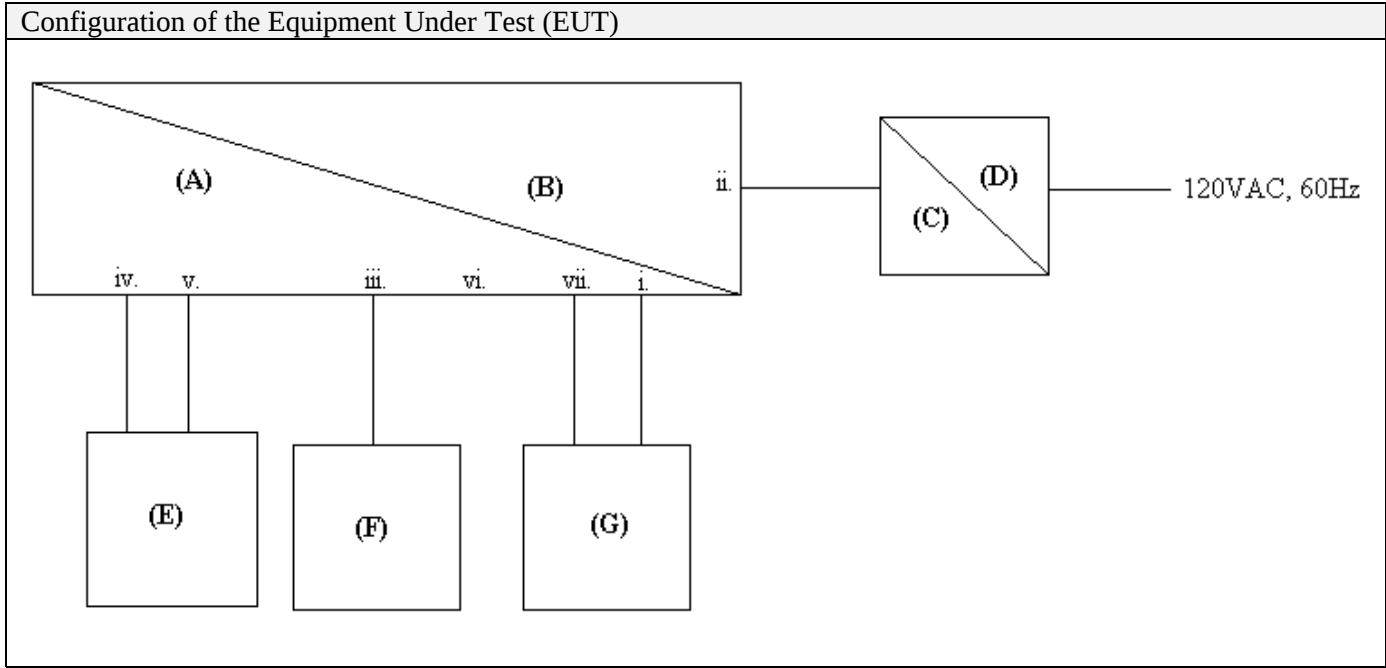
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Equipment Configuration

Equipment Configuration List				
Item	Description	Identification: (M/N #, S/N #, P/N #, Rev.)		
(A)	CDMA Wireless Modem (EUT)	M/N #BT5200		
(B)	GSM Wireless Modem (EUT)	M/N #BT5400		
(C)	GlobTek, Inc. Power Supply	S/N #03257731/04, M/N #GT-21089-1512-T3, P/N #TR9CE1250LCP-Y		
(D)	MODE Electronics Power Supply	M/N #DV-1250, P/N #68-125P-1		
(E)	IBM Think Pad 600X Laptop Computer	M/N #600X, S/N #78-VPLH8 04/00		
(F)	Switching Relay	None		
(G)	GPS Antenna	None		
EUT Ports				
Item	Description	Indoor/Outdoor	Type (See Legend)	Qty
i.	SMA (female) connector GPS (optional)	Indoor	4	1
ii.	Power supply Molex (female) connector	Indoor	2	1
iii.	I/O Molex (female) connector	Indoor	4	1
iv.	DB9 (female) Serial connector	Indoor	4	1
v.	RJ-45 Ethernet (female) connector	Indoor	3	1
vi.	USB Type B (female)	Indoor	4	1
vii.	TNC connector (female) cellular antenna	Indoor	4	1
Inter-Connection Cables				
Description		Shielded	Ferrite	Length (m)
DB9 (female/male) Serial connector- straight through		Yes	None	5
RJ-45 Ethernet (male/male) connector- UTP crossover		No	None	5
I/O Molex (female) connector twisted pair		No	None	5
Legend: 1 = AC Power Input/Output, 2 = DC Power Input/Output, 3 = Telecom, 4 = Non-telecom I/O, 5 = Maintenance, 6 = Fiber Optic				
Notes				
None				

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Equipment Configuration, continued



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Radiated Disturbance

Test Date: January 17, 2005 & January 18, 2005											
Engineer's Name: Daniel Hynes											
Tested as per: Table Top											
Mains Input Voltage: 120VAC							Mains Input Frequency: 60Hz				
Enclosure Investigation Data: BT5200 (CDMA Module)											
Test Distance (meters): 10							Dome: Almonte				
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dBµV)	Ant. Factor (dB)	Amp. Gain (dB)	Cable Loss (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Amp.
300.0293	BL	V	16.4	13.5	N/A	2.2	32.1	35.5	3.4	Q-Peak	N/A
179.7017	BL	V	15.8	10.2	N/A	1.7	27.7	33.0	5.3	Q-Peak	N/A
275.0268	BL	V	13.4	13.7	N/A	2.1	29.2	35.5	6.3	Q-Peak	N/A
131.5471	BL	V	13.2	11.7	N/A	1.4	26.3	33.0	6.7	Q-Peak	N/A
239.6016	BL	V	14.6	11.7	N/A	2.0	28.3	35.5	7.2	Q-Peak	N/A
325.0316	BL	V	11.0	14.2	N/A	2.2	27.4	35.5	8.1	Q-Peak	N/A
161.0878	BL	V	12.8	9.7	N/A	1.6	24.1	33.0	8.9	Q-Peak	N/A
311.4292	BL	V	10.3	13.7	N/A	2.2	26.2	35.5	9.3	Q-Peak	N/A
175.0010	BL	V	11.7	10.4	N/A	1.6	23.7	33.0	9.3	Q-Peak	N/A
146.6756	BL	V	11.7	10.4	N/A	1.5	23.6	33.0	9.4	Q-Peak	N/A
200.0195	BL	V	11.5	10.3	N/A	1.7	23.5	33.0	9.5	Q-Peak	N/A
Enclosure Investigation Data: BT5400 (GSM Module)											
Test Distance (meters): 10							Dome: Almonte				
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dBµV)	Ant. Factor (dB)	Amp. Gain (dB)	Cable Loss (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Amp.
300.0293	BL	V	16.9	13.5	N/A	2.2	32.6	35.5	2.9	Q-Peak	N/A
275.0268	BL	V	15.6	13.7	N/A	2.1	31.4	35.5	4.1	Q-Peak	N/A
175.0010	BL	V	16.8	10.4	N/A	1.6	28.8	33.0	4.2	Q-Peak	N/A
325.0316	BL	V	14.7	14.2	N/A	2.2	31.1	35.5	4.4	Q-Peak	N/A
179.7017	BL	V	14.0	10.2	N/A	1.7	25.9	33.0	7.1	Q-Peak	N/A
150.0145	BL	V	13.8	10.3	N/A	1.6	25.7	33.0	7.3	Q-Peak	N/A
200.0195	BL	V	13.5	10.3	N/A	1.7	25.5	33.0	7.5	Q-Peak	N/A
239.6016	BL	V	12.4	11.7	N/A	2.0	26.1	35.5	9.4	Q-Peak	N/A
150.3413	BL	V	11.6	10.3	N/A	1.6	23.4	33.0	9.6	Q-Peak	N/A
Legend:											
Antenna Legend: BL = Bilog											
Detector Legend: Q-Peak = 120kHz RBW											
Notes											
None											

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Radiated Disturbance, continued

Deviations						
Refer to Engineering Considerations.						
Test Result						
Final Test Result: Pass						
Radiated Disturbance Test Equipment Used						
CAL Cycle	Equipment	Manufacturer	Model No.	Asset/Serial No.	Last Cal.	Next Cal.
1 Year	Receiver	Rohde & Schwarz	ESVS-30	FA001445	July 07/04	July 07/05
1 Year	Bilog	Schaffner	CBL6112B	FA001503	July 09/04	July 09/05
Note: N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use						



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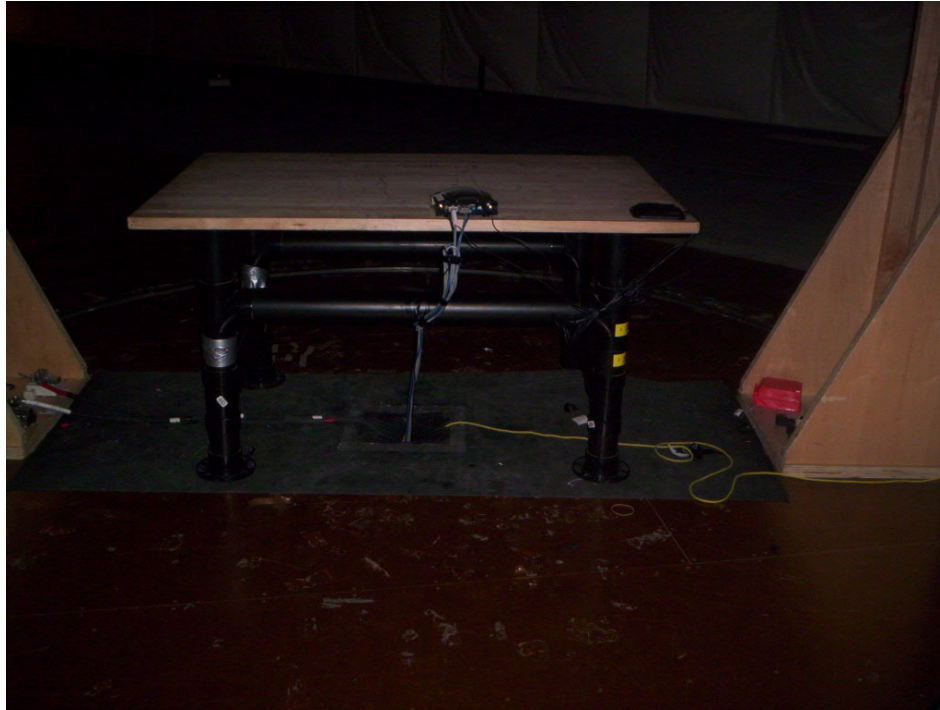
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Equipment (EUT): BT4200 IP series and BT5200 GPS Series;
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Radiated Disturbance, continued

Radiated Disturbance Setup Photos



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Conducted Disturbance at Mains Port

Test Date: January 17, 2005								
Engineer’s Name: Daniel Hynes								
Tested as per: Table Top								
Mains Input Voltage: 120VAC					Mains Input Frequency: 60Hz			
Spectrum plots for each frequency band can be found at the back of this section. *All plots were generated with a peak detector.								
Port Investigation Data								
Port under test: AC Mains – GlobTek Power Supply								
Results: Refer to Plots of this section and tables.								
Conductor	Frequency (MHz)	Detector	Emission Level (dBuV)	LISN Loss (dB)	Cable Loss (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
Phase (CDMA)	0.1500	Quasi Peak	38.0	0.24	0.00	38.24	66.0	27.8
		Average	15.0	0.24	0.00	15.24	56.0	40.8
Phase (GSM)	0.1500	Quasi Peak	39.0	0.24	0.00	39.24	66.0	26.8
		Average	14.7	0.24	0.00	14.94	56.0	41.1
Port under test: AC Mains – Mode Electronics Power Supply								
Results: Refer to Plots of this section and tables.								
Conductor	Frequency (MHz)	Detector	Emission Level (dBuV)	LISN Loss (dB)	Cable Loss (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
Phase (GSM)	3.9800	Quasi Peak	29.0	0.04	0.40	29.44	56.0	26.6
		Average	13.0	0.04	0.40	13.44	46.0	32.6
	3.8500	Quasi Peak	27.0	0.04	0.40	27.44	56.0	28.6
		Average	10.0	0.04	0.40	10.44	46.0	35.6
	4.8500	Quasi Peak	30.0	0.04	0.60	30.64	56.0	25.4
		Average	24.0	0.04	0.60	24.64	46.0	21.4
Neutral (GSM)	3.9500	Quasi Peak	25.0	0.03	0.40	25.43	56.0	30.6
		Average	7.0	0.03	0.40	7.43	46.0	38.6
	4.1500	Quasi Peak	28.0	0.03	0.50	28.53	56.0	27.5
		Average	16.0	0.03	0.50	16.53	46.0	29.5
Notes								
The EUT was assessed with two different AC power supplies. Data for both power supplies have been included								

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Conducted Disturbance at Mains, continued

Port Investigation Data, Continued								
Port under test: AC Mains – Mode Electronics Power Supply, continued								
Conductor	Frequency (MHz)	Detector	Emission Level (dBuV)	LISN Loss (dB)	Cable Loss (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
Phase (CDMA)	3.9800	Quasi Peak	30.0	0.04	0.40	30.44	56.0	25.6
		Average	14.0	0.04	0.40	14.44	46.0	31.6
	4.5600	Quasi Peak	28.0	0.04	0.56	28.60	56.0	27.4
		Average	9.0	0.04	0.56	9.60	46.0	36.4
	3.9500	Quasi Peak	31.0	0.04	0.40	31.44	56.0	24.6
		Average	20.0	0.04	0.40	20.44	46.0	25.6
	4.4000	Quasi Peak	25.0	0.04	0.50	25.54	56.0	30.5
		Average	12.0	0.04	0.50	12.54	46.0	33.5
Neutral (CDMA)	3.8500	Quasi Peak	30.5	0.03	0.40	30.93	56.0	25.1
		Average	21.0	0.03	0.40	21.43	46.0	24.6
	3.8200	Quasi Peak	19.4	0.03	0.40	19.83	56.0	36.2
		Average	6.0	0.03	0.40	6.43	46.0	39.6
	4.0600	Quasi Peak	26.0	0.03	0.40	26.43	56.0	29.6
		Average	14.0	0.03	0.40	14.43	46.0	31.6
	4.2200	Quasi Peak	33.0	0.03	0.58	33.61	56.0	22.4
		Average	7.0	0.03	0.58	7.61	46.0	38.4
4.6500	Quasi Peak	25.0	0.03	0.60	25.63	56.0	30.4	
	Average	24.0	0.03	0.60	24.63	46.0	21.4	
Notes								
The EUT was assessed with two different AC power supplies. Data for both power supplies have been included								
Deviations								
Refer to Engineering Considerations.								
Test Result								
Final Test Result: Pass								

Conducted Disturbance at Mains Test Equipment Used						
CAL Cycle	Equipment	Manufacturer	Model No.	Asset/Serial No.	Last Cal.	Next Cal.
1 Year	LISN	FCC	FCC-LISN-50-100-1-02	FA001775	April 29/04	April 29/05
1 Year	LISN	FCC	FCC-LISN-50-100-1-02	FA001777	April 29/04	April 29/05
1 Year	Receiver	Rohde & Schwarz	ESH3	FA000208	Jan. 13/05	Jan. 13/06
1 Year	Spectrum Analyzer	Hewlett-Packard	8566B	FA001432	May 25/04	May 25/05
1 Year	Spectrum Analyzer Display	Hewlett-Packard	85662A	FA001432	May 25/04	May 25/05
1 Year	Transient Limiter	Hewlett-Packard	1194 7A	FA001150	May 25/04	May 25/05
Note: N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use						



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Conducted Disturbance at Mains, continued

Conducted Disturbance at Mains Setup Photos





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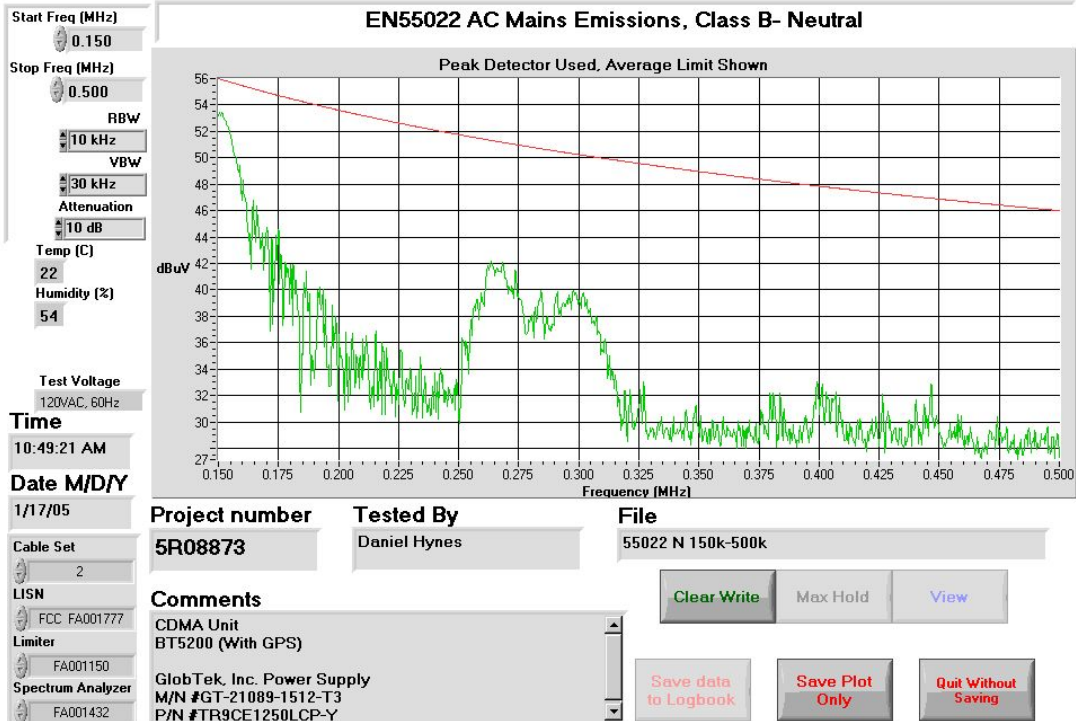
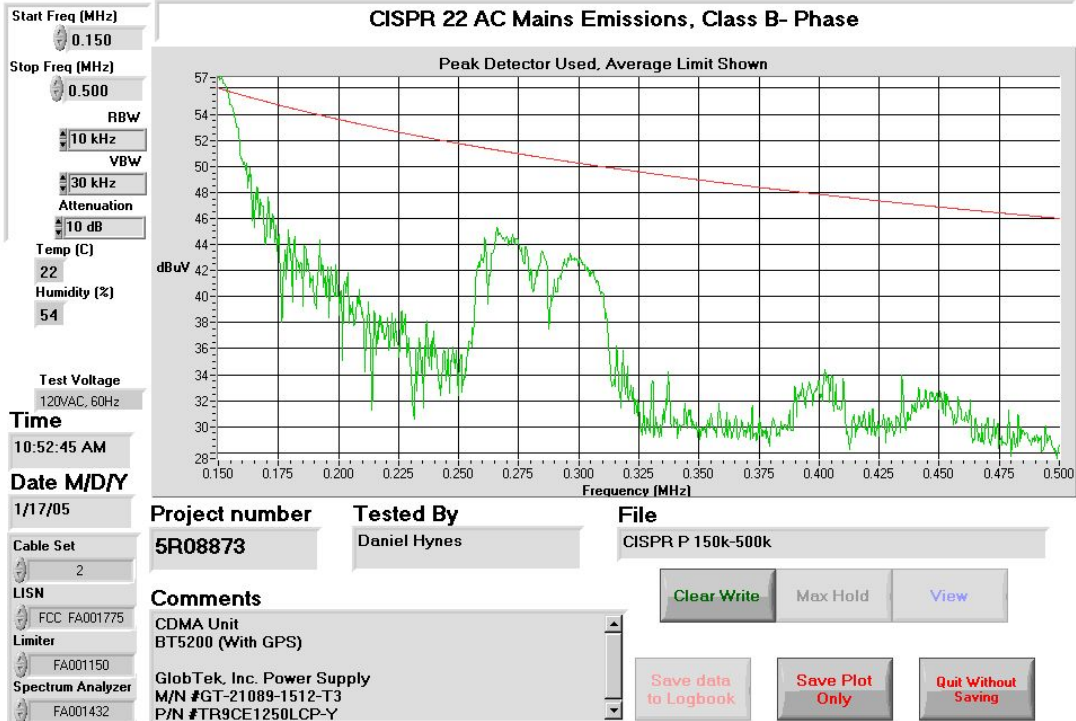
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Conducted Disturbance at Mains, continued

Conducted Disturbance at Mains Plots





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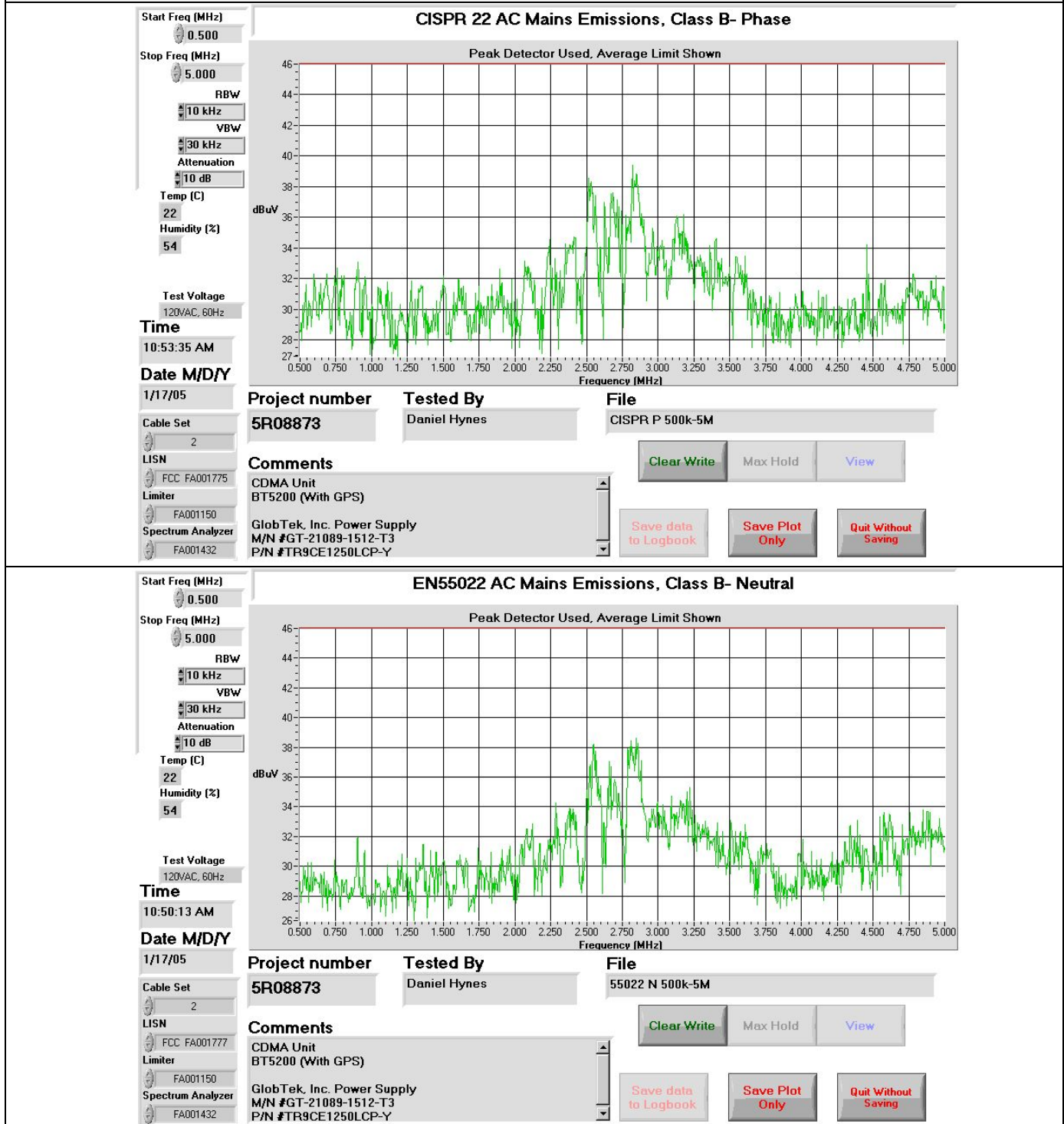
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Conducted Disturbance at Mains, continued

Conducted Disturbance at Mains Plots, continued





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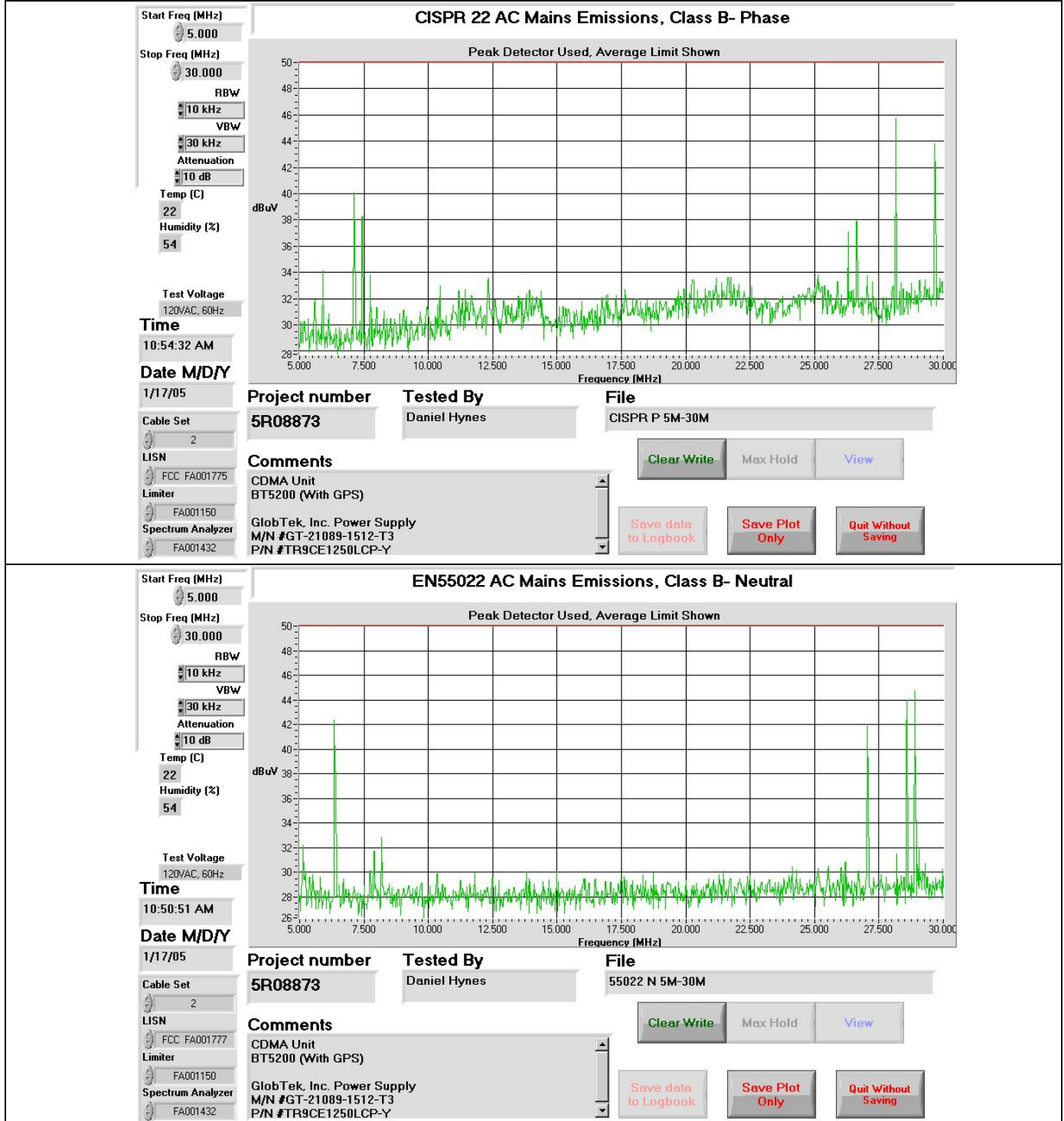
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Conducted Disturbance at Mains, continued

Conducted Disturbance at Mains Plots, continued





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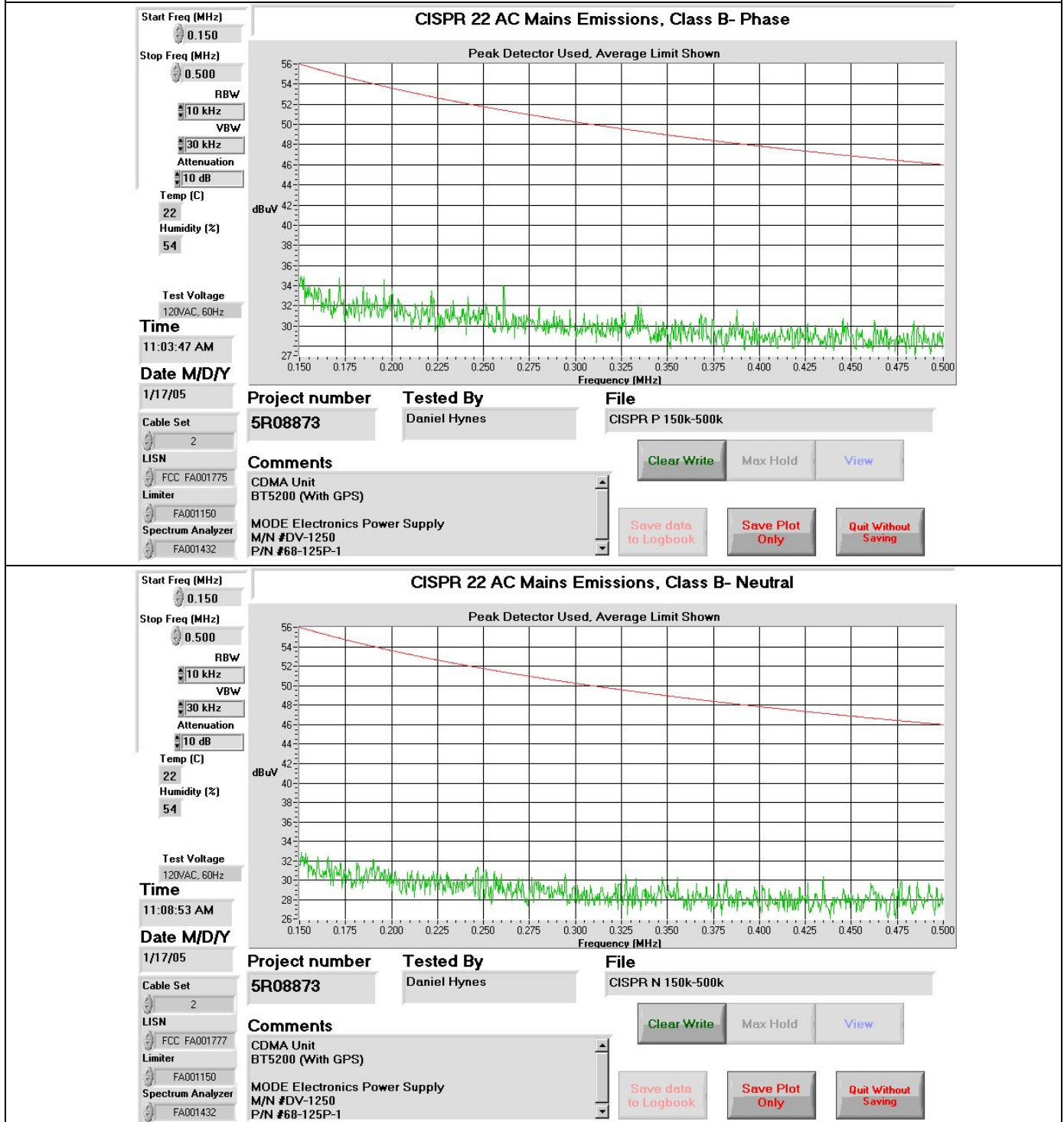
Reference Standard: FCC 47 CFR Part 15, Subpart B

Test Report No: 5R36568

Equipment (EUT): BT4200 IP series and BT5200 GPS Series;
BT4400 IP series and BT5400 GPS Series

Conducted Disturbance at Mains, continued

Conducted Disturbance at Mains Plots, continued





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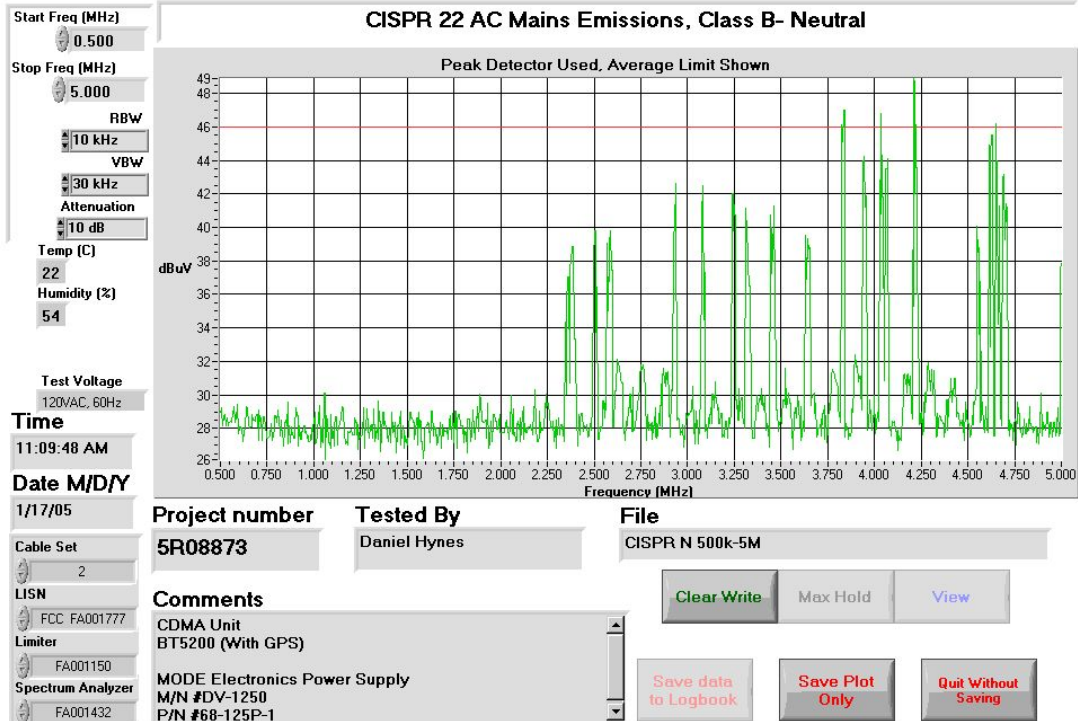
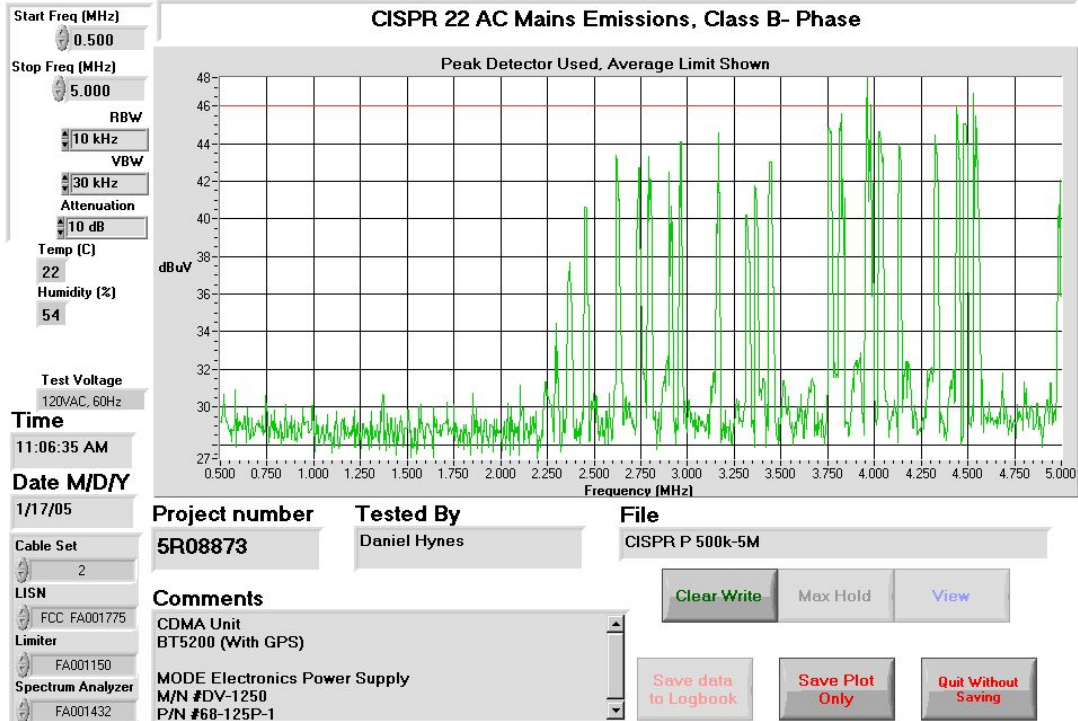
Reference Standard: FCC 47 CFR Part 15, Subpart B

Test Report No: 5R36568

Equipment (EUT): BT4200 IP series and BT5200 GPS Series;
BT4400 IP series and BT5400 GPS Series

Conducted Disturbance at Mains, continued

Conducted Disturbance at Mains Plots, continued





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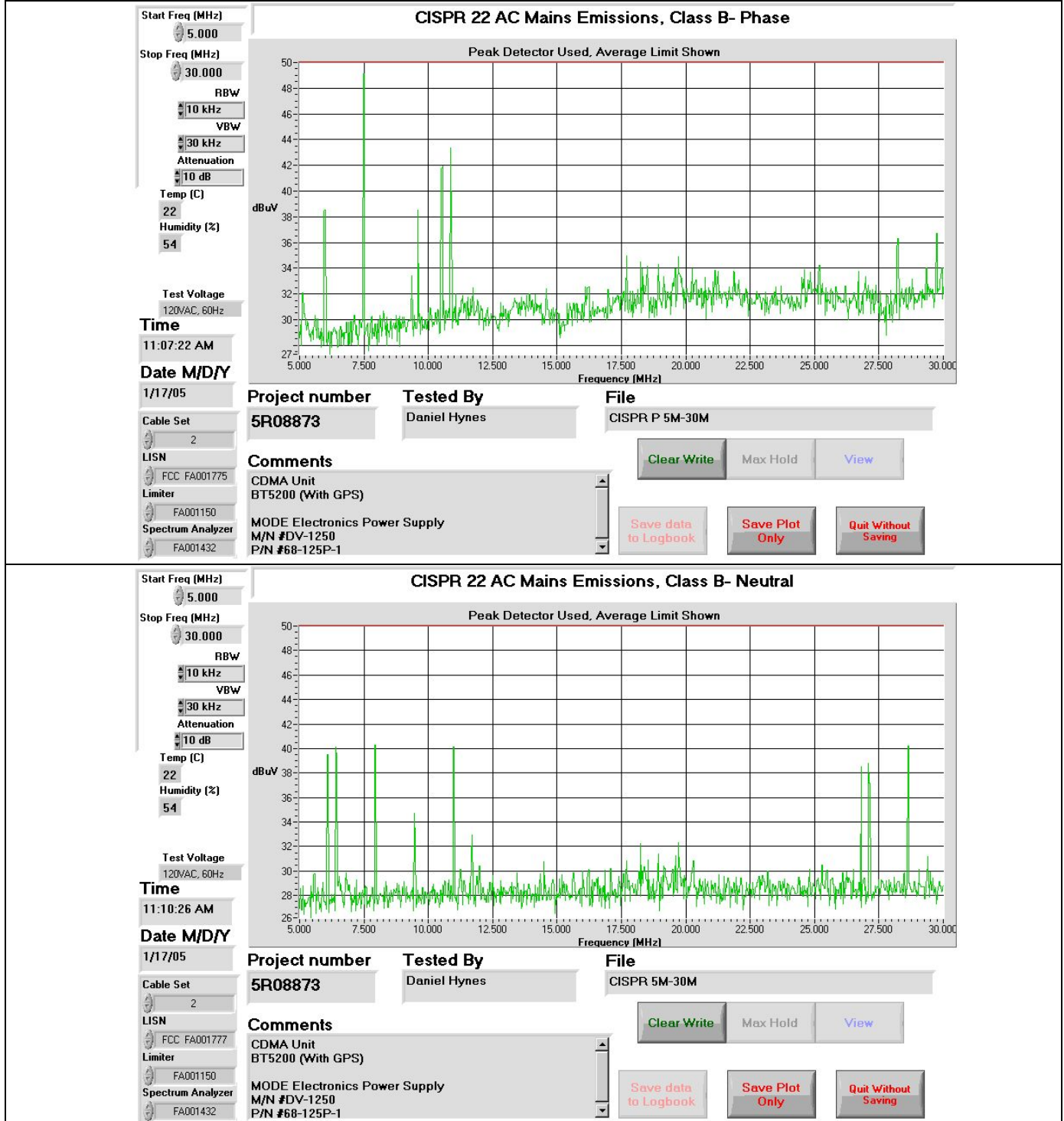
Reference Standard: FCC 47 CFR Part 15, Subpart B

Test Report No: 5R36568

Equipment (EUT): BT4200 IP series and BT5200 GPS Series;
BT4400 IP series and BT5400 GPS Series

Conducted Disturbance at Mains, continued

Conducted Disturbance at Mains Plots, continued





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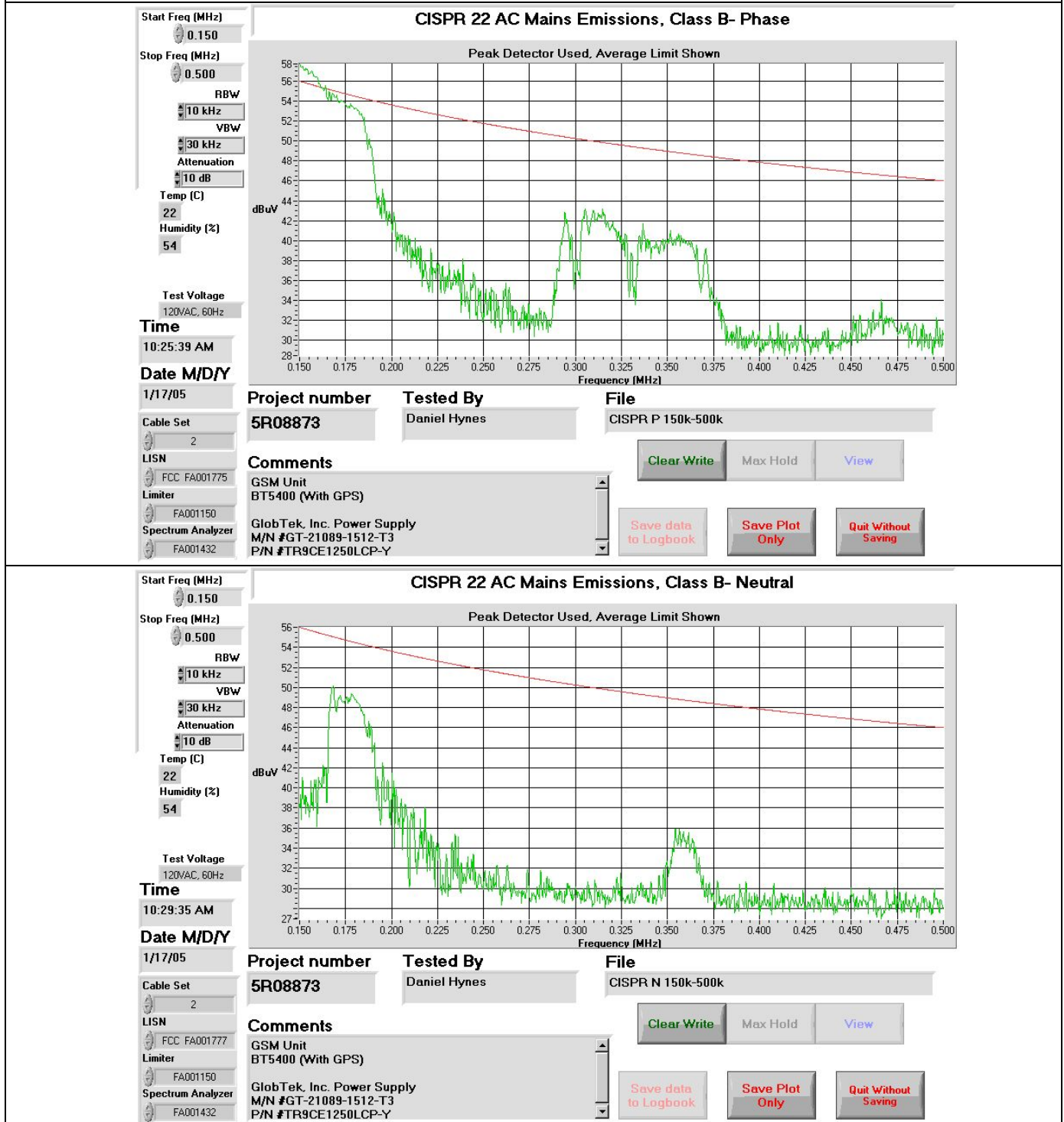
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Test Report No: 5R36568

Equipment (EUT): BT4200 IP series and BT5200 GPS Series;
BT4400 IP series and BT5400 GPS Series

Conducted Disturbance at Mains, continued

Conducted Disturbance at Mains Plots, continued





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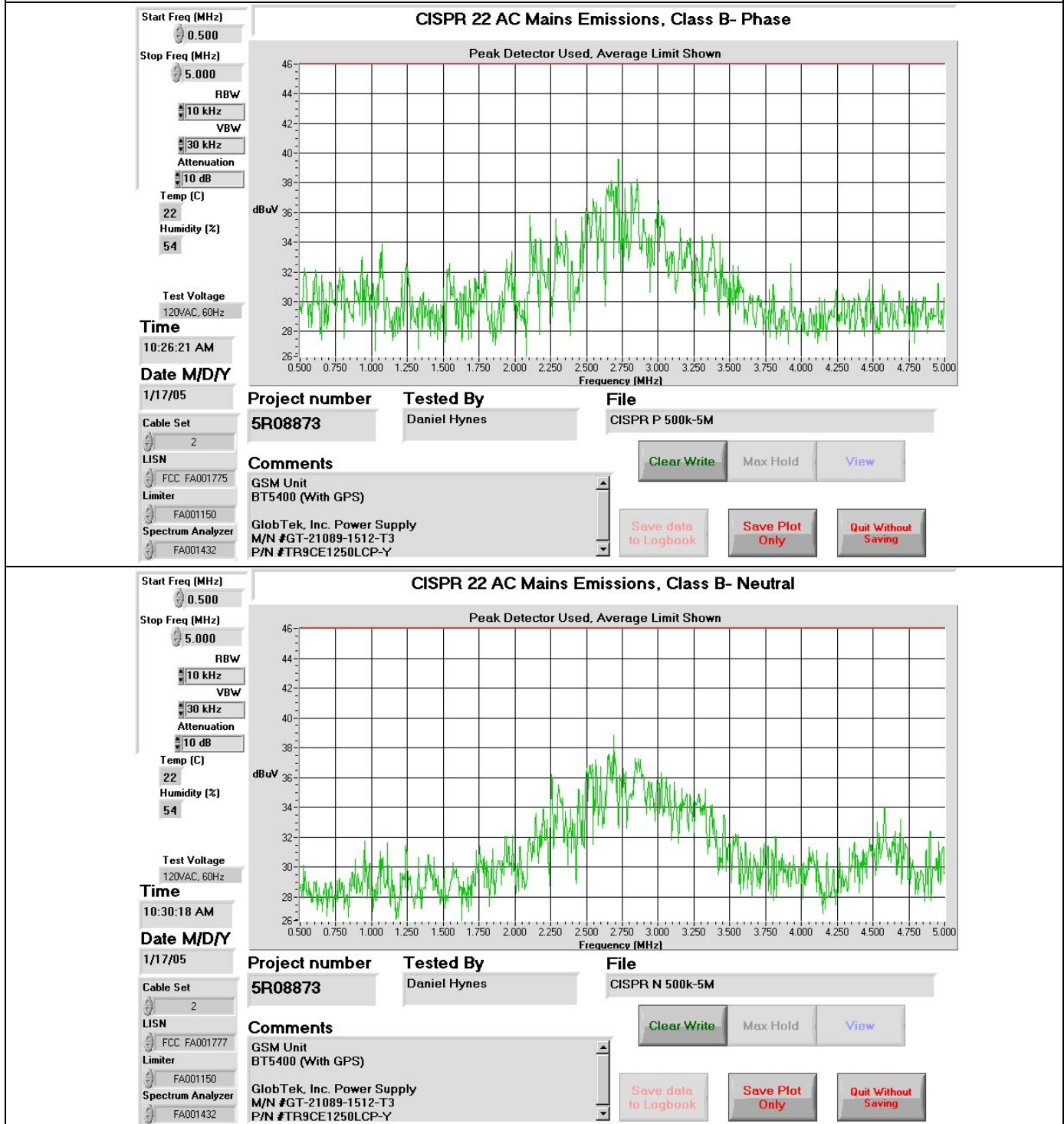
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Test Report No: 5R36568

Equipment (EUT): BT4200 IP series and BT5200 GPS Series;
BT4400 IP series and BT5400 GPS Series

Conducted Disturbance at Mains, continued

Conducted Disturbance at Mains Plots, continued





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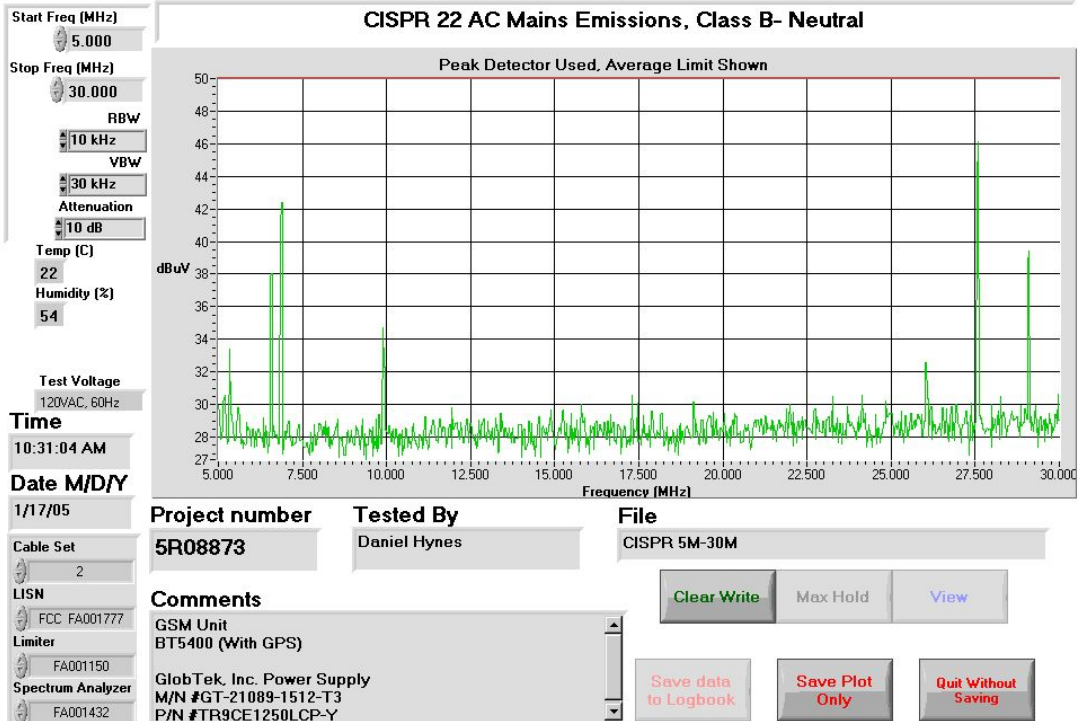
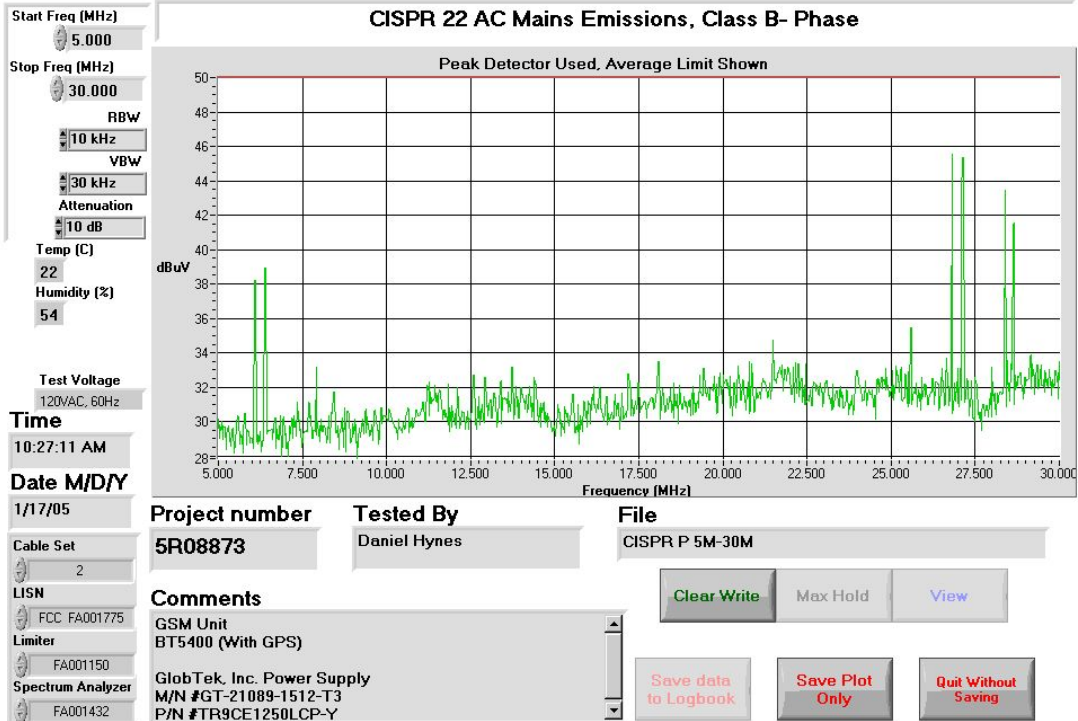
Reference Standard: FCC 47 CFR Part 15, Subpart B

Test Report No: 5R36568

Equipment (EUT): BT4200 IP series and BT5200 GPS Series;
BT4400 IP series and BT5400 GPS Series

Conducted Disturbance at Mains, continued

Conducted Disturbance at Mains Plots, continued





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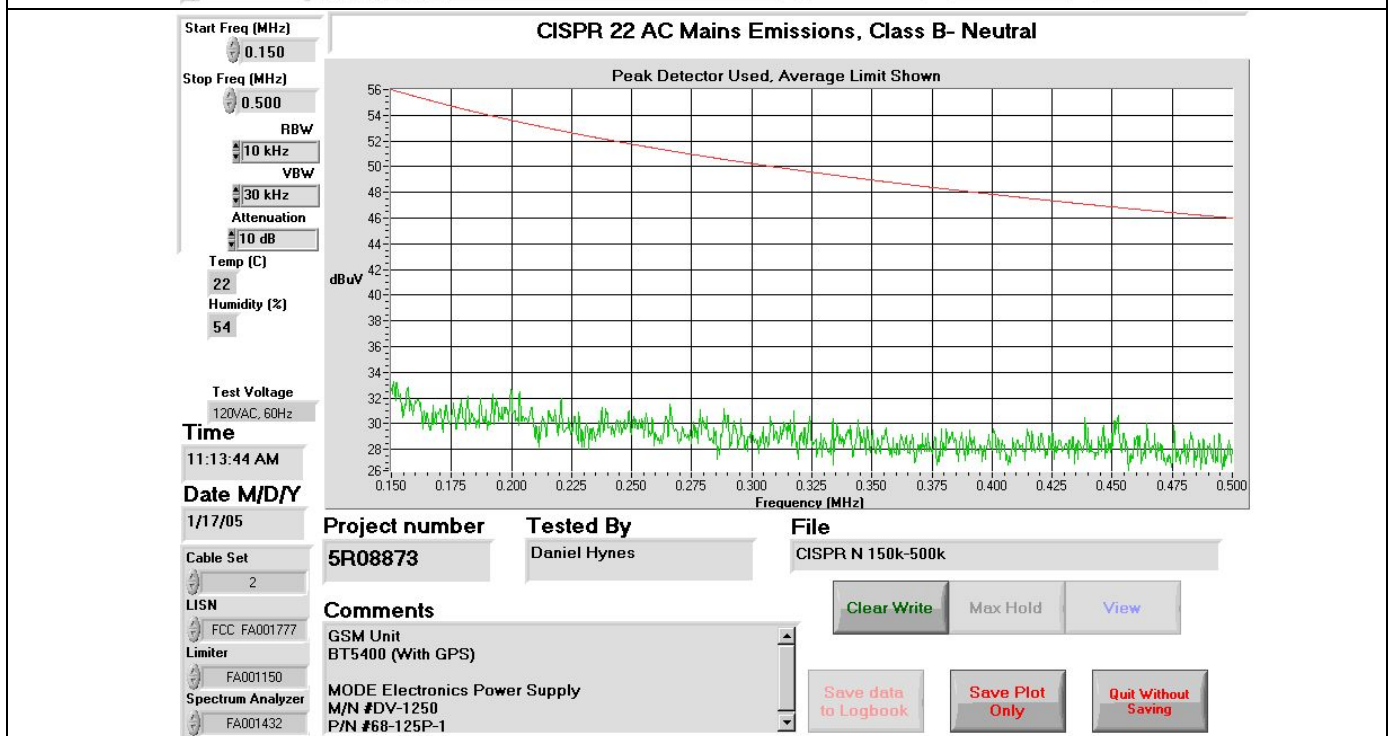
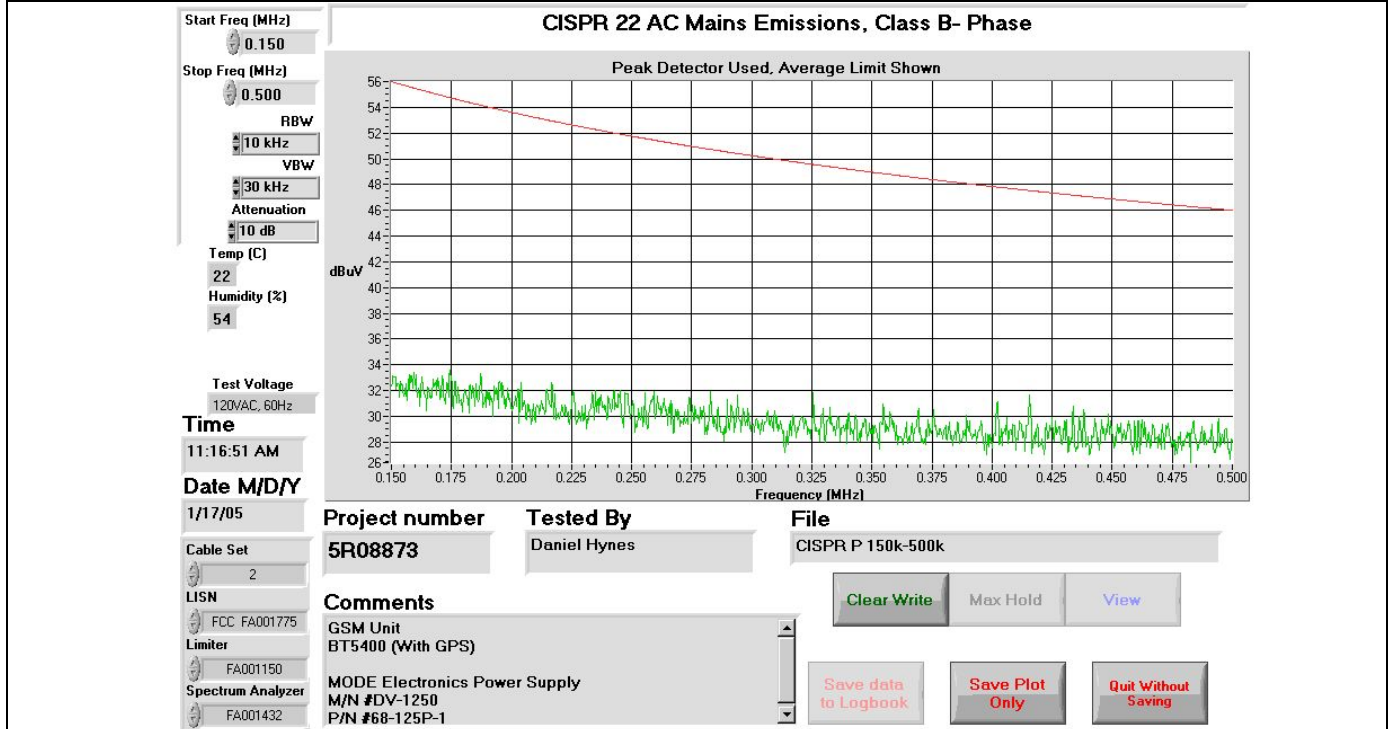
Reference Standard: FCC 47 CFR Part 15, Subpart B

Test Report No: 5R36568

Equipment (EUT): BT4200 IP series and BT5200 GPS Series;
BT4400 IP series and BT5400 GPS Series

Conducted Disturbance at Mains, continued

Conducted Disturbance at Mains Plots, continued





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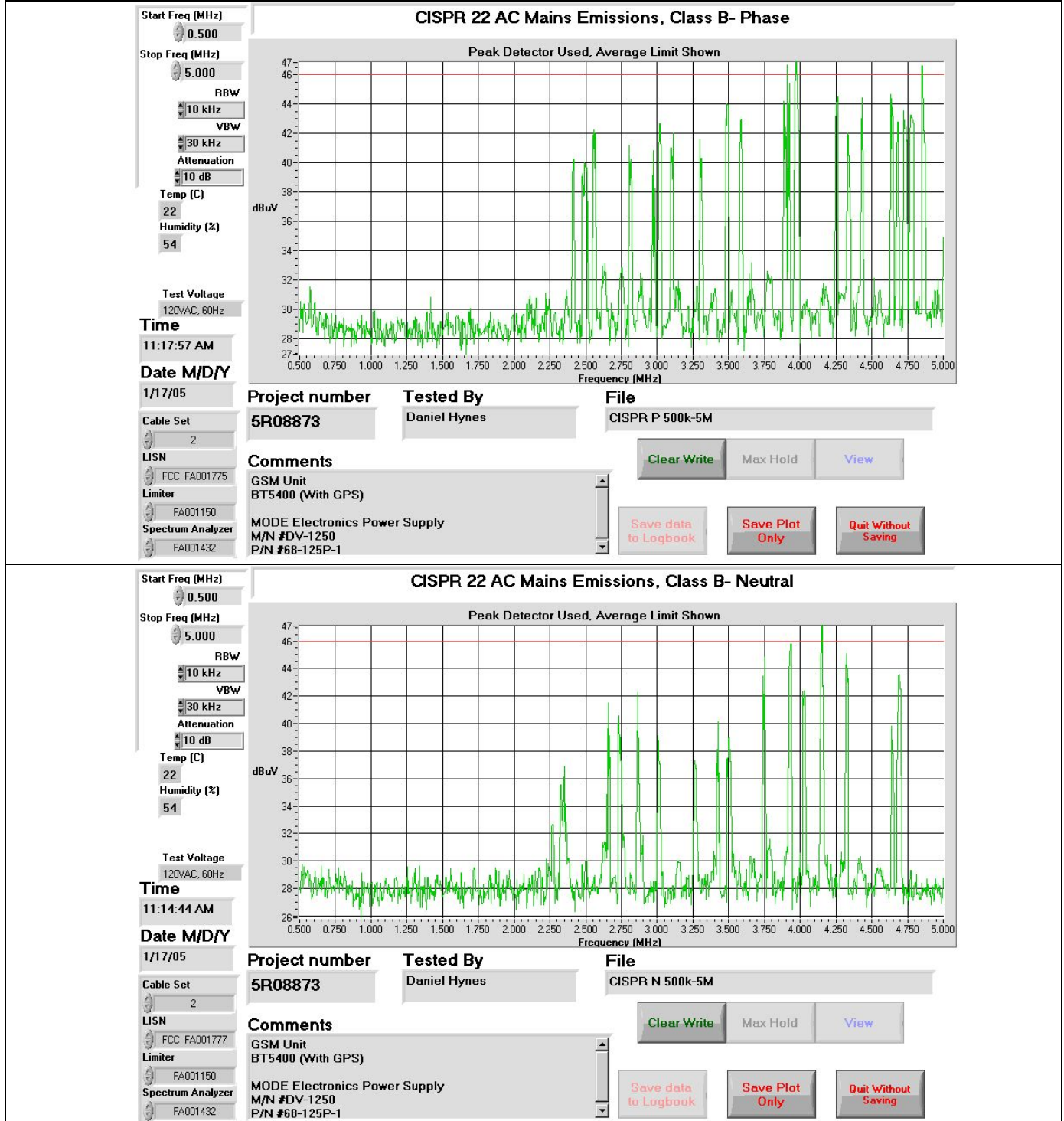
Reference Standard: FCC 47 CFR Part 15, Subpart B

Test Report No: 5R36568

Equipment (EUT): BT4200 IP series and BT5200 GPS Series;
BT4400 IP series and BT5400 GPS Series

Conducted Disturbance at Mains, continued

Conducted Disturbance at Mains Plots, continued





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Equipment (EUT): BT4200 IP series and BT5200 GPS Series;
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Conducted Disturbance at Mains, continued

Conducted Disturbance at Mains Plots, continued

