LS Research, LLC
W66 N220 Commerce Court
Cedarburg, WI 53012
262-375-4400

COMPLIANCE TESTING OF:

Synchronization Transmitter
Model XR

PREPARED FOR:

Primex
Attn.: Mr. Scott Wickus
965 Wells Street
Lake Geneva, WI 53147

TEST REPORT NUMBER:

306343

DATE(S) OF TESTING:

July 10th and 11th, 2006

All results of this report relate only to the items that were tested. This report is not to be reproduced, except in full, without written approval of LS Research, LLC.

Table of Contents

1. LS Research, LLC In Review

LS Research, LLC is located in Cedarburg, Wisconsin – United States.

We may be contacted by:

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As an EMC Testing Laboratory, our Accreditation and Assessments are recognized through the following:

A2LA – American Association for Laboratory Accreditation
Accreditation based on ISO/IEC 17025 : 1999
with Electrical (EMC) Scope of Accreditation
A2LA Certificate Number: 1255.01

U. S. Conformity Assessment Body (CAB) Validation
Validated by the European Commission as a U. S. Conformity Assessment Body operating under the U. S. /EU, Mutual Recognition Agreement (MRA) operating under the European Union EMC Directive 89/336/EEC, Article 10.2.
Date of Validation: January 16, 2001

Federal Communications Commission (FCC) – USA
Listing of 3 Meter Semi-Anechoic Chamber based on 47CFR 2.948
FCC Registration Number: 90756

Listing of 3 and 10 meter OATS based on 47CFR 2.948
FCC Registration Number: 90757

Industry Canada
On-file, 3 Meter Semi-Anechoic Chamber based on 47CRF 2.948
File Number: IC 3088

On-file 3 and 10 Meter OATS based on RSS-210
File Number: IC 3088-A

2. Signature Page

Prepared By: **August 24, 2006**

Teresa A. White, Document Coordinator **Date**

Tested By: **August 24, 2006**

Kenneth L. Boston, EMC Lab Manager **Date**

Approved By: **August 24, 2006**

Kenneth L. Boston, EMC Lab Manager **Date**
PE#31926 Licensed Professional Engineer
Registered in the State of Wisconsin, United States

3. Product and General Information

Manufacturer:	Primex
Model No.:	XR
Serial No.:	(Unit 1) 000100000 and (Unit 5) 000110000
Description:	Data Transmitter
Frequency Range:	72.0 – 76.0 MHz

4. Product Description

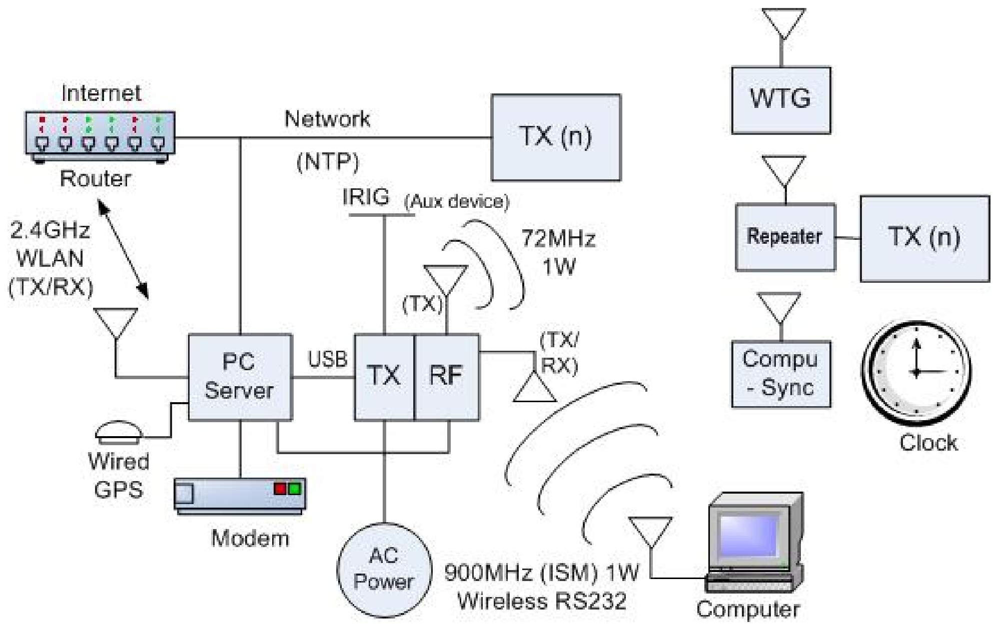
The XR is a data transmitter, which sends telemetry to various co-located paging receivers, which are located in wall clocks, for the purpose of time synchronization. It is provided for by 47 CFR, Part 90.238 as a telemetry device.

Two models were tested; the first sample was fully configured with all peripheral cables and modules and includes: The I/O connection possibilities are shown in the following table:

Connector	Description	Connector type
GPS IN	Input from GPS receiver	7 pin mini-DIN
NETWORK LAN	Network connection, connects to Lantronix serial port internally. This is a population option with the next connector.	RJ45
WIRELESS NETWORK ANTENNA	Wireless bulkhead antenna mount. This a population option with the previous connector.	SMA
SCHEDULER	Com 1/Auxiliary Port/Scheduler Programming	RS232 DB9 Fem.
GPS OUT	Serial port with 1PPS to drive NTP input for the server	RS232 DB9 Male
SERVER CONNECT	USB 2.0	USB Type B device connector
BASEBAND / MONITOR	Serial JTAG in for programming the micro; input line for monitoring a high power amp RF power; input line for monitoring VSWR on a high power RF amp (neither used in this model); non-inverted baseband output – a digital output of the pre-modulated baseband for external systems	9 pin Mini-DIN socket
TX RF	Main RF Output, found on top of the enclosure for this model	NMO antenna mount
Power	Connector from wall supply. DC output is 9V at 2.7A	Two prong AC, DC is 2.5 mm pin size
EXTERNAL ANTENNA	Not populated for this model, when populated, the TX RF NMO antenna mount on top is depopulated	N-Type Bulk-head

The second sample is configured as a basic unit with no extra cables, using the installed whip antenna.

This is a synchronized time and data transmitter that transmits time and data packets using FM encoding in the 72 – 76 MHz frequency range. The transmitter can be locally connected (through a USB interface) or network connected (through a CAT5 cable or WLAN connection) to a server, can be connected via USB or serial cable to a PC for programming, or operate standalone. The system diagram is shown below.



5. Test Requirements

The following FCC requirements are met: 47 CFR, 2.1053, 90.257(b)(2), 90.210.

6. Summary of Test Report

DECLARATION OF CONFORMITY

The Equipment Under Test (EUT) was found to **MEET** the requirements as described within the specification of Title 47 CFR FCC, Part 90, Subpart J, and Part 2.1053 Radiated Spurious Emissions for a low-power non-broadcast transmitter.

7. Introduction

On July 10th and 11th, 2006 a series of Radiated Emission tests were performed on the EUT. These tests were performed using the procedures outlined in ANSI C63.4-2001 for unintentional radiators, and in accordance with the limits set forth in FCC Part 90 for a non-voice and other specialized operation transmitters. These tests were performed by Kenneth Boston, EMC Lab Manager of LS Research, LLC.

8. Purpose

All Radiated Emission tests upon the EUT were performed to measure the emissions in the frequency bands described in title 47 CFR, FCC Part 90, including 90.210 (general technical parts) to determine whether these emissions are below the limits expressed within the standards. These tests were performed in accordance with the procedure described in the American National Standard for methods of measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz TIA-603. Another document used as a reference for the EMI Receiver specification was the Comite International Special Des Perturbations Radioelelectriques (CISPR) Number 16-1, 1993.

9. Radiated Emissions Test

Test Setup

The test setup was assembled in accordance with TIA-603. The Quartex FM-72 was placed on an 80cm high non-conductive pedestal centered on a flush mounted 2-meter diameter turntable inside the 3 Meter Semi-Anechoic, FCC listed Chamber located at LS Research, LLC in Cedarburg, Wisconsin. The EUT was operated in normal mode, using AC power as provided by a wall transformer. The transmitter was set to operate continuously, on two channels (72.01 and 75.98 MHz), and a suitable artificial 50 ohm antenna load was connected to the internal antenna port for the duration of the radiated emissions tests. Signal levels that were seen to be close to the regulatory limits were verified using a substitution method, with a tuned Dipole. The applicable limits are provided at a 3 meter distance. The calculations to determine these limits are detailed in the following pages. Please refer to Appendix A for a list of the test equipment.

Test Procedure

Spurious radiation measurements were performed on the EUT in the 3 Meter Semi-Anechoic, FCC listed Chamber, located at LS Research, LLC in Cedarburg, Wisconsin. The frequency range from 30 MHz to 760 MHz was scanned, and levels were manually noted at the various fixed degree settings of azimuth on the turntable and antenna height. The EUT was placed on the non-conductive wooden table in the 3 Meter Semi-Anechoic Chamber, with the antenna mast placed such that the antenna was 3 meters from the test object. A Biconical Antenna was used to measure emissions from 30 MHz to 200 MHz, and a Log Periodic Antenna was used to measure emissions from 200 MHz to 760 MHz. The maximum radiated emissions were found by raising and lowering the antenna between 1 and 4 meters in height, using both horizontal and vertical antenna polarities.

Test Equipment Utilized

A list of the test equipment and antennas utilized for the Radiated Emissions test can be found in Appendix A. Included in this list are calibration information and equipment descriptions. All equipment is calibrated and used according to the operations manual supplied by the manufacturer. All calibrations of the antennas used were performed at an N.I.S.T. traceable site. In addition, the Connecting Cables were measured for losses using a calibrated Signal Generator and a HP 8546A EMI Receiver. The resulting correction factors and the cable loss factors from these calibrations were entered into the HP 8546A EMI Receiver database. As a result, the data taken from the HP 8546A EMI Receiver accounts for the antenna correction factor as well as cable loss or other corrections, and can therefore be entered into the database as a corrected meter reading. The HP 8546A EMI Receiver was operated with a bandwidth of 120 kHz for measurements below 1 GHz. Both the Peak and Quasi-Peak Detector functions were utilized.

Test Results

The EUT was found to MEET the Radiated Emissions requirements of Title 47 CFR, FCC Part 90.257(b)(2) for an unintentional radiator (Canada RSS-210). The frequencies with significant signals were recorded and plotted as shown in the Data Charts and Graphs.

Calculation of Radiated Emissions Limits

<u>FIELD STRENGTH OF SPURIOUS/HARMONIC FREQUENCIES</u>

In accordance with Section 90.210 (2.1053)
All out of band spurious emissions must be below the mean power of the carrier by at least:

43 + 10 log(carrier power)

which for a 1.0 watt rating on the test sample is:

43 + 10 log(1))
43 = 43 dBc

-43 dBc from 30 dBm = -13. dBm

<u>FIELD STRENGTH OF PART 90 LIMIT: AT R = 3 METERS DSTANCE</u>

FROM THE STANDARD REFERENCE FORMULA FOR POWER TRANSMITTED VERSUS ELECTRIC FIELD:

$$Pt = (R^{**}) \times |E|^{**} / 30$$

Then to convert to dB:

$$Pt = 20\log|E| + 20\log(R) - 10\log(30)$$

Insert additional terms to convert watts to milli-watts (in dB) and volts to micro-volts (in dBμV):

$$Pt = 20\log|E\mu v| -20 \log(1{,}000{,}000) +10\log(1000) +20\log(3) - 10\log(30)$$

$$Pt = 20\log|E\mu v| - 120 +30 +9.54 - 14.77$$

$$Pt = 20\log|E\mu v| - 95.23$$

OR; $20\log|E\mu v| = Pt \text{ (in dBm)} + 95.23$

$|E|$ (in dBμV) = -13 dBm + 95.23 = <u>82.23 dBμV/m</u> , at 3 meters

<u>Summary of Results and Conclusions</u>

Based on the procedures outlined in this report, and the test results included in Appendices A and B, it can be determined that the EUT does MEET the emission requirements of Title 47 CFR, FCC Part 90.

The enclosed test results pertain to the samples of the test item listed, and only for the tests performed per the data sheets. Any subsequent modification or changes to the test items could invalidate the data contained herein, and could therefore invalidate the findings of this report.

Measurement of Electromagnetic Radiated Emissions at a 3 Meter F.C.C. Listed Site

Frequency Range inspected: 30 MHz - 760 MHz

Manufacturer:	Primex					
Date(s) of Test:	July 10th and 11th, 2006					
Test Engineer(s):		***Tom Smith***		***Abtin Spantman***	***x***	***Ken Boston***
Model #:	XR					
Serial #:	(Unit 1) 000100000 and (Unit 5) 000110000					
Voltage:	115 VAC, 60 hz					
Operation Mode:	Normal					
Distance:	X	3 Meters		10 Meters		
EUT Power:	X	Single Phase ___VAC		3 Phase ___VAC		
		Battery		Other:		
EUT Placement:	X	80cm non-conductive table		10cm Spacers		
EUT Test Location:	X	3 Meter Semi-Anechoic FCC Listed Chamber		3/10m OATS		
Configuration:	0.8 m height					
Measurements:		Pre-Compliance		Preliminary	X	Final
Detectors Used:	X	Peak	X	Quasi-Peak		Average

Environmental Conditions in the Lab:
Temperature: 20 – 25°C
Atmospheric Pressure: 86 kPa – 106 kPa
Relative Humidity: 30 – 60 %

Test Equipment Used:
EMI Measurement Instrument: HP8546A/Agilent E4407B
Biconical Antenna: EMCO #93110
Log Periodic Antenna: EMCO #93146
Horn Antenna: EMCO #3115

The following table depicts the level of significant emissions found:

Frequency (MHz)	Antenna Polarity	Height (meters)	Azimuth (0° - 360°)	EMI Meter Reading (dBμV/m)	(dBμV/m)	Margin (dB)
30.1	V	1.0	180	38.1	82.2	44.1
192.0	H	1.0	180	27.9	82.2	54.3
250.0	H	1.3	240	39.3	82.2	42.9
288.0	H	1.0	310	35.4	82.2	46.8
832.0	V	1.25	155.0	45.3	82.2	36.9
848.0	V	1.25	155.0	46.1	82.2	36.1

Notes: Emissions seen with antenna port terminated with a 50 ohm terminating load. All other signals seen were even further below the Part 90 limit of –13 dBm (82.2 dBuV/m at 3 meters equivalent field strength) except the fundamental, which is measured directly at the antenna port, and reported elsewhere in the report.

All Radiated Spurious Emissions seen were found to be greater than 20 dB below the limits of 82 dB/uV/m, or below the noise floor of the instrumentation. Since the highest peak emissions seen were in the neighborhood of 45 dBuV/m or less, which is almost 40 dB below the radiated equivalent field strength of the -13 dBm limit level, no substitution method measurements were performed.

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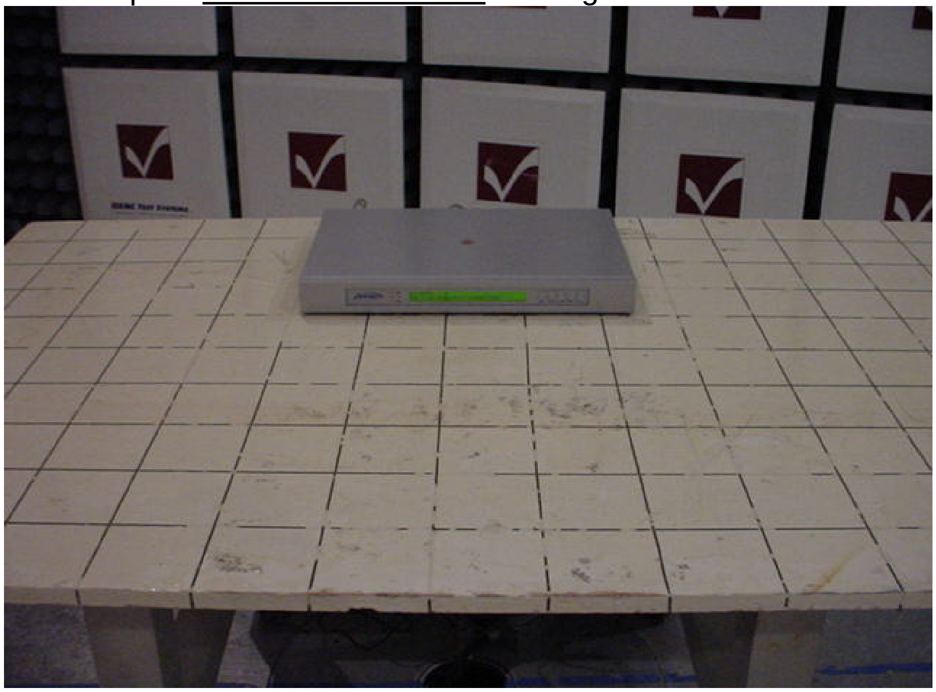
Photos Taken During Radiated Emissions Testing

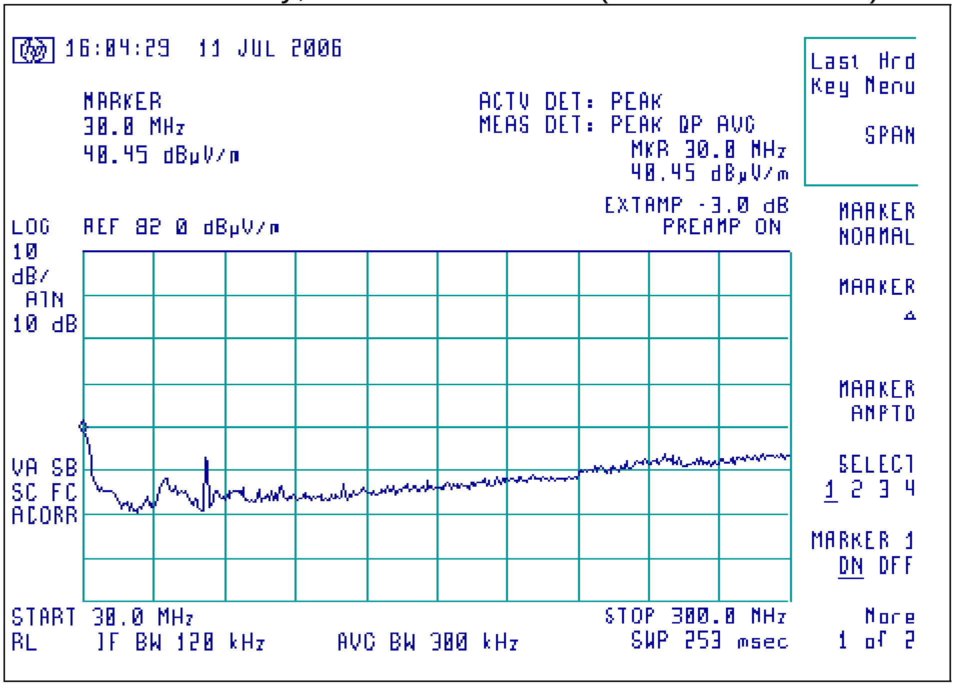
Test Setup for Radiated Emissions Testing in the 3 Meter Chamber



View of the EUT during the Radiated Emissions Testing.
Antenna in place, but port internally terminated with a 50 Ohm load.

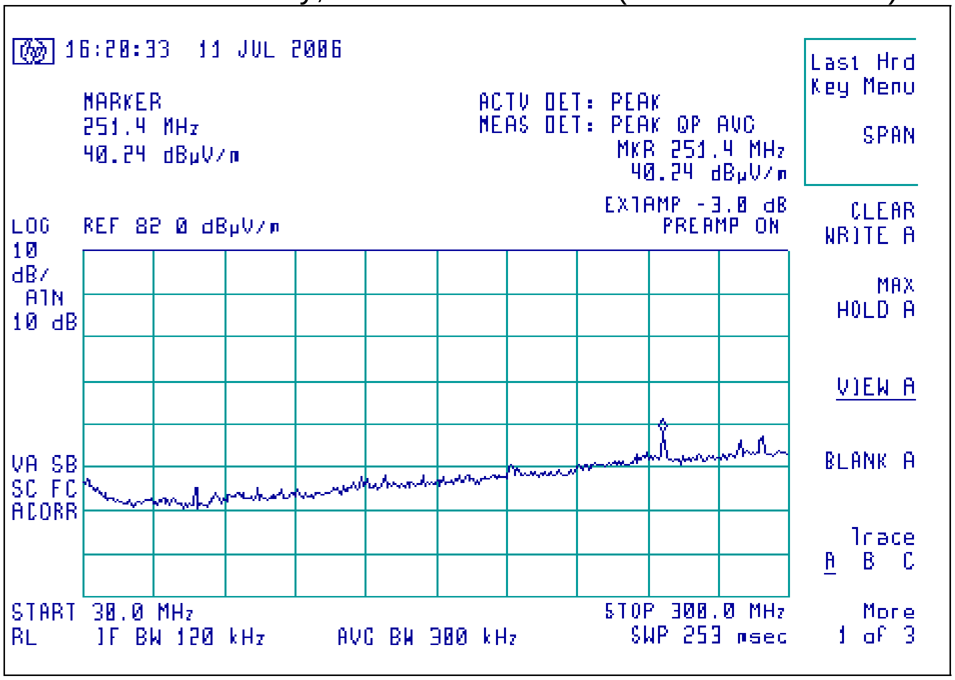
Signature Scan of Radiated Emissions, Unit 1

Vertical Polarity, 30 MHz – 300 MHz (75.98 MHz Carrier)



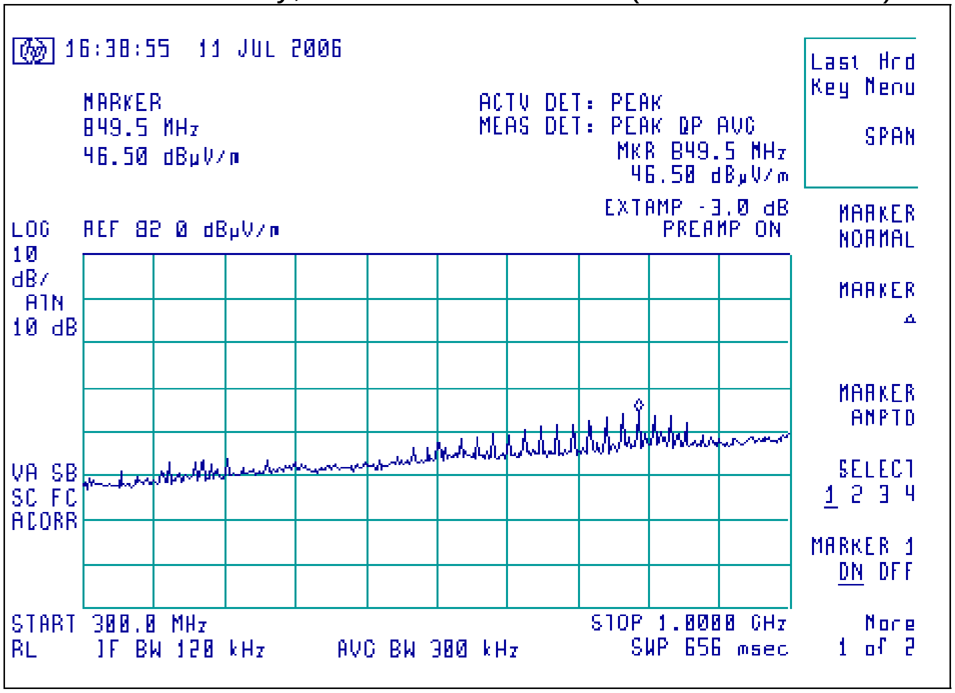
Signature Scan of Radiated Emission, Unit 1

Horizontal Polarity, 30 MHz – 300 MHz (72.00 MHz Carrier)



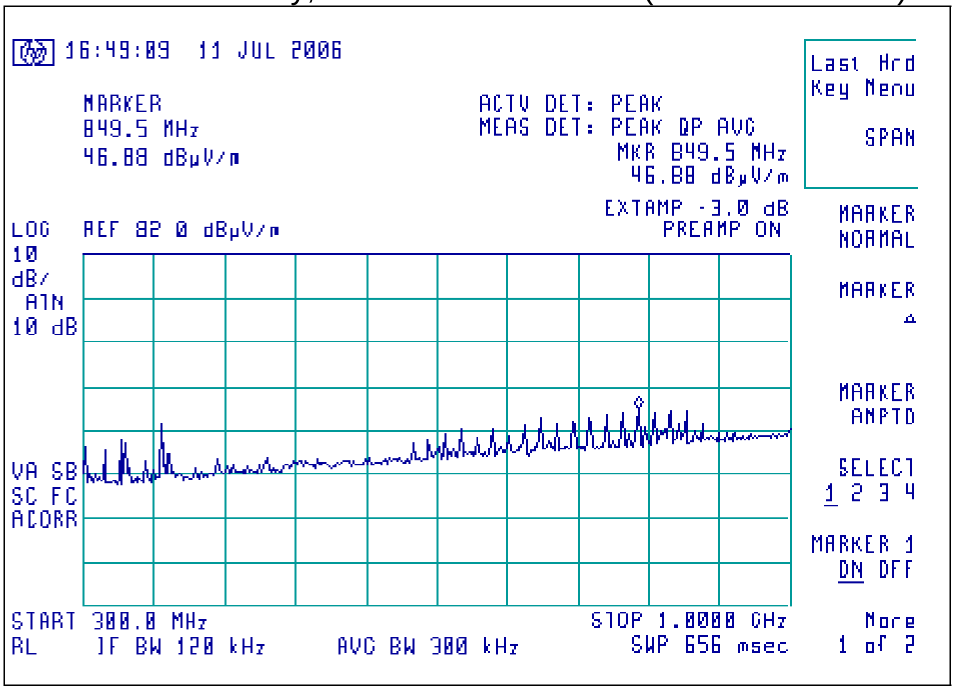
Signature Scan of Radiated Emissions, Unit 1

Vertical Polarity, 300 MHz – 1000 MHz (72.1 MHz Carrier)



Signature Scan of Radiated Emissions, Unit 1

Horizontal Polarity, 300 MHz – 1000 MHz (72.1 MHz Carrier)

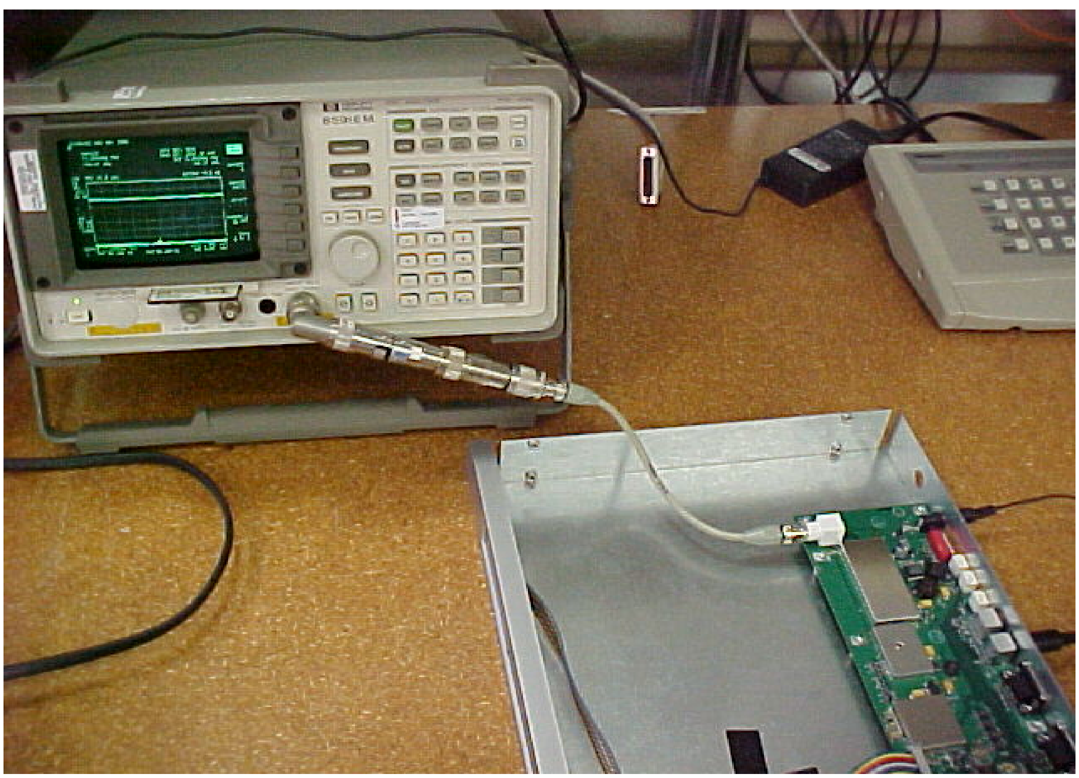


10. Power Output 47 CFR 2.1046

For the FCC Part 2.1046 measurement, the output of the sample unit 5 was connected via a short jumper cable, with a reverse-gender connector, through a 10 dB Attenuator to the input of the HP 8591A Spectrum Analyzer. The unit was configured to run in a normal continuous transmit mode, while being supplied with a random, internal full-frequency digital audio signal as a modulation source. The HP receiver was set to a 100 kHz Bandwidth, and the transmit signal was then stored, with the peak signal level stored. This power level was collected for two channels and can be seen in the chart presented below.

CHANNEL	CENTER FREQ (MHz)	LIMIT (dBm)	MEASURED POWER (dBm)	MARGIN (dB)
01	72.1	30	29.46	0.54
94	75.9	30	28.8	1.2

View of Test Setup During the Conducted RF measurements

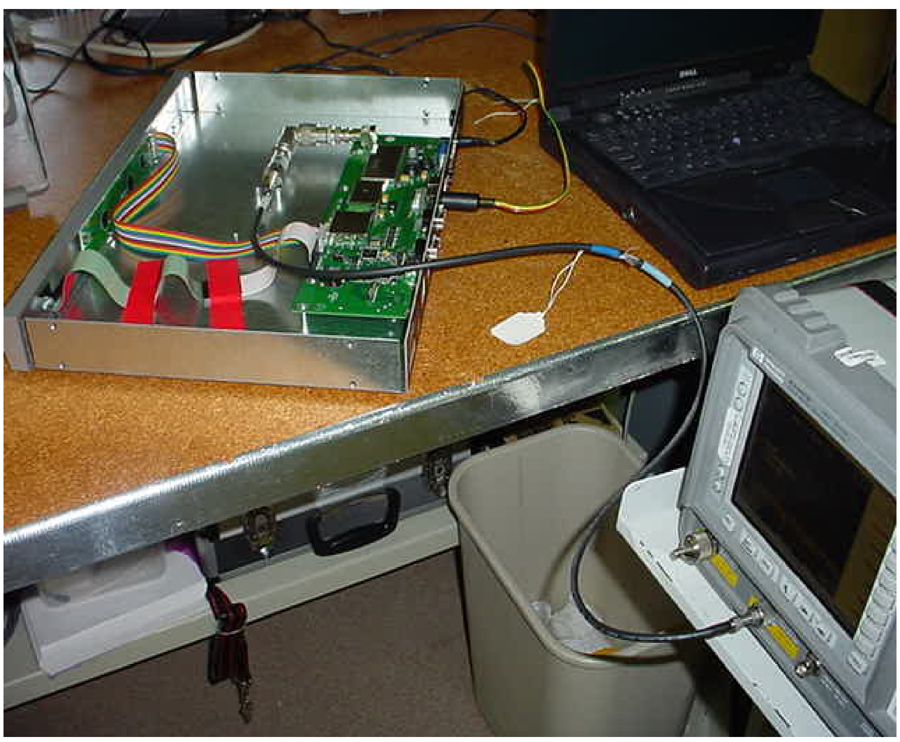


11. <u>Conducted Spurious Emissions: 47 CFR 2.1051</u>

FCC Part 2.1051 requires an antenna conducted measurement of conducted harmonic and spurious levels, as reference to the carrier frequency in a 30 kHz bandwidth. For this test, the transmitter was directly connected to the HP E4407B Spectrum Analyzer, through a very short Coaxial Cable and a 10 DB Attenuator. Plots were then taken, with any noticeable spurious or harmonic signals identified. No significant levels of any spurious products could be found within --18 dBc of the fundamental of the transmitter. The highest spurious signal seen was at 144.2 MHz which was measured at -30.8 dBm in a 30 kHz bandwidth, which is about 17.8 dB below the -13.0 dBm limit.

UNIT 5

TRANSMIT CHANNEL FREQUENCY	Test FREQ (MHz)	LIMIT (dBm)	MEASURED POWER (dBm)	MARGIN (dB)
72.1	61.4	-13.0	-33.6	20.6
72.1	144.2	-13.0	-30-8	17.8
72.1	216.3	-13.0	-39.7	26.7
75.98	65.3	-13.0	-34.9	21.9
75.98	151.96	-13.0	-31.3	18.3
75.98	227.95	-13.0	-40.2	27.2



12. Bandwidth Measurements 47 CFR 2.1049

Direct measurement of the transmitted signal, via a cabled connection to the HP E4407B Analyzer, was then used to determine the signal bandwidth. For each of the representative channels, refer to the graphs found on the following pages.

Calculation of 90.210 (c) emission mask:

(1) On any frequency from the center of the authorized channel to 5.0 kHz removed from center frequency: Zero dB.

(2) On any frequency removed from the center of the authorized channel by a displacement frequency (f_d in kHz) of more than 5.0 kHz but no more than 10 kHz: At least 83 log (Fd/5) dB.

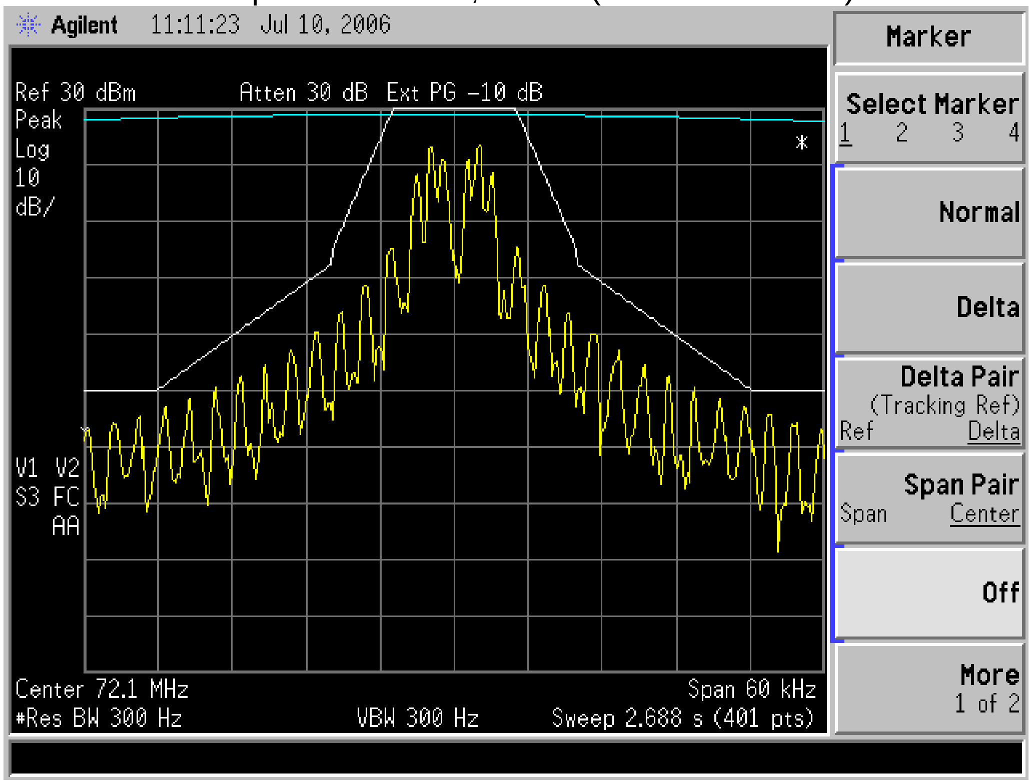
(3) On any frequency removed from the center of the authorized band by a displacement frequency (f_d in kHz) of more than 10 kHz but no more than 50 khz : At least 29 log (Fd**/11) dB or 50 dB, whichever is the lesser attenuation.

(4) On any frequency removed from the center of the authorized band by a displacement frequency (f_d in kHz) of more than 50 khz: at least 43 db,

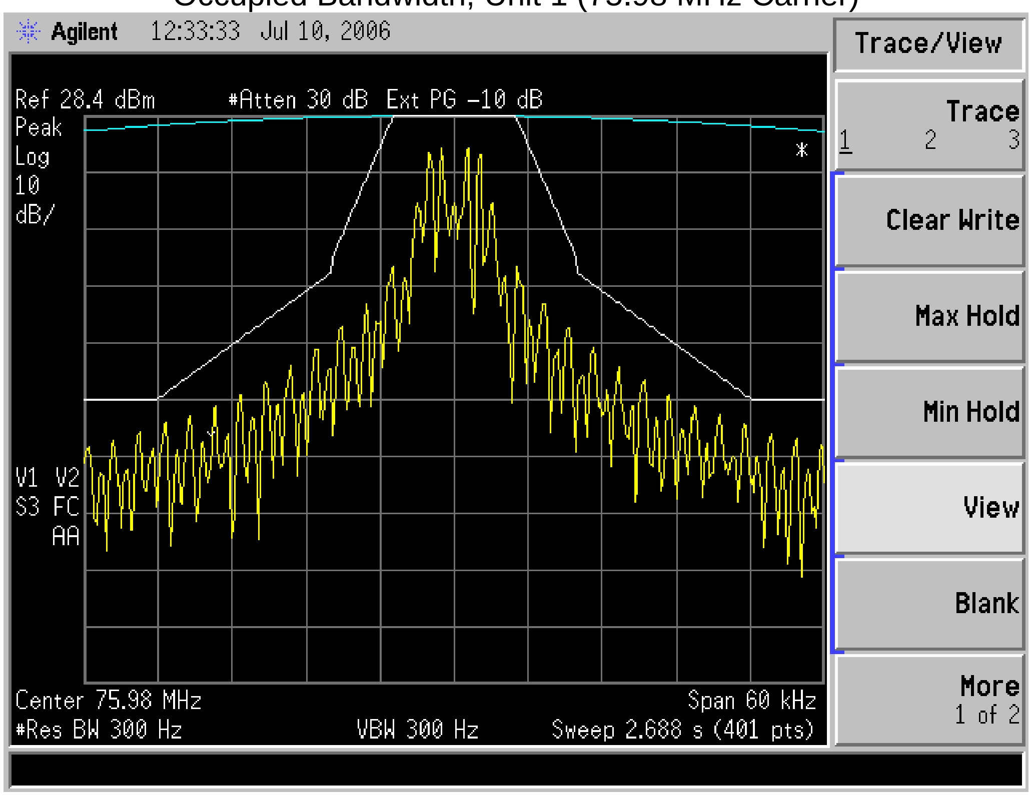
The test condition is presented in Tabular form below. The definition of the spectrum mask as indicated on the spectrum analyzer is also presented, where the display line set to –20 dBm applies to $|f_m|$ > 12.5 kHz.

90.210 (c)	**Absolute Frequency Offset Range: $\|f_d\|$**	**Attenuation relative to Carrier power (P).**
1	0 to 5 KHz	0 db
2	5 to 10 khz	0 to 24.9 db
3	10 to 50 khz	27.8 to 50 db
4	Greater than 50 khz	43 db (-13 dbm)

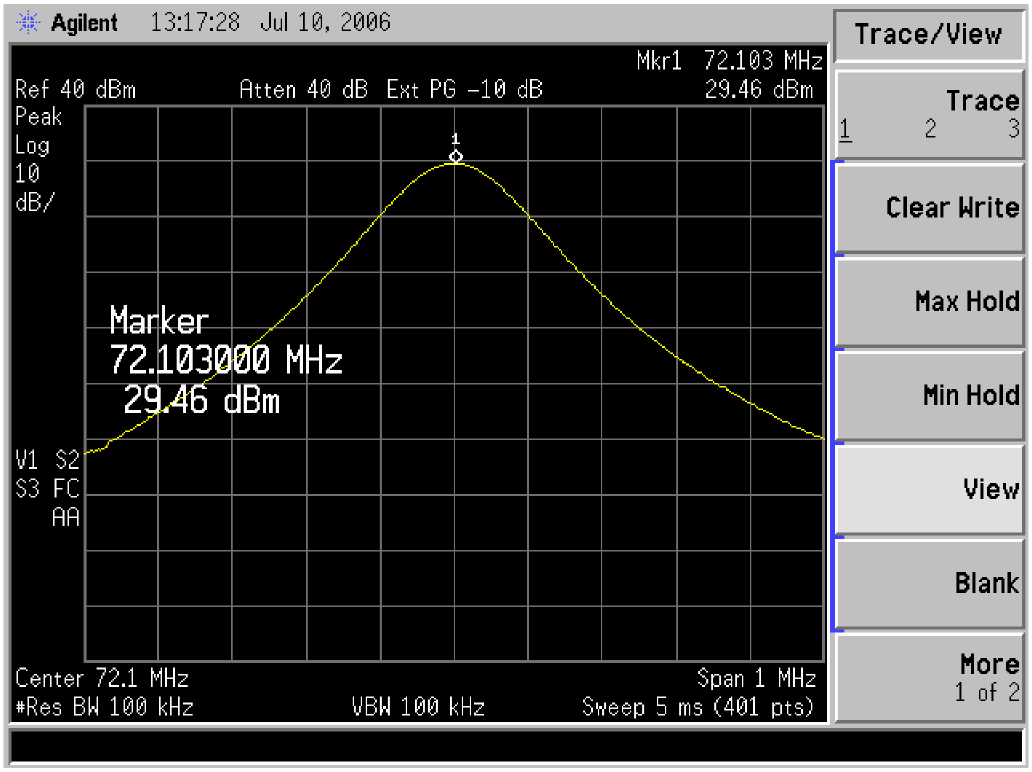
Occupied Bandwidth; Unit 1 (72.1 MHz Carrier)

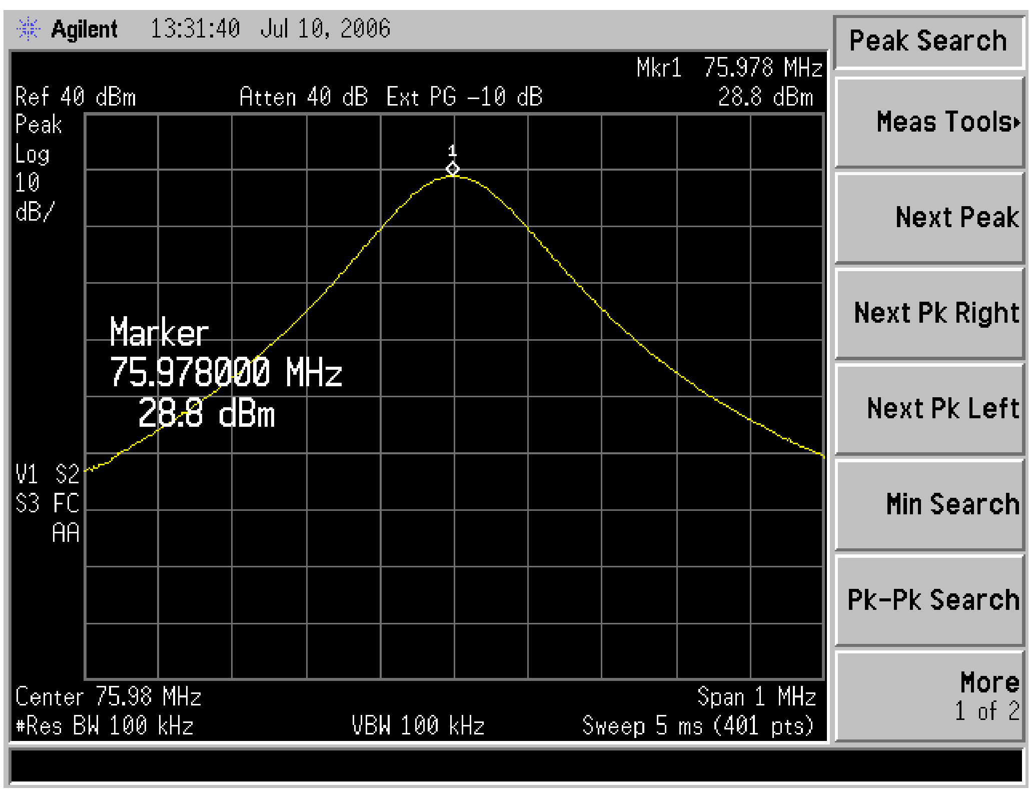


Occupied Bandwidth; Unit 1 (75.98 MHz Carrier)

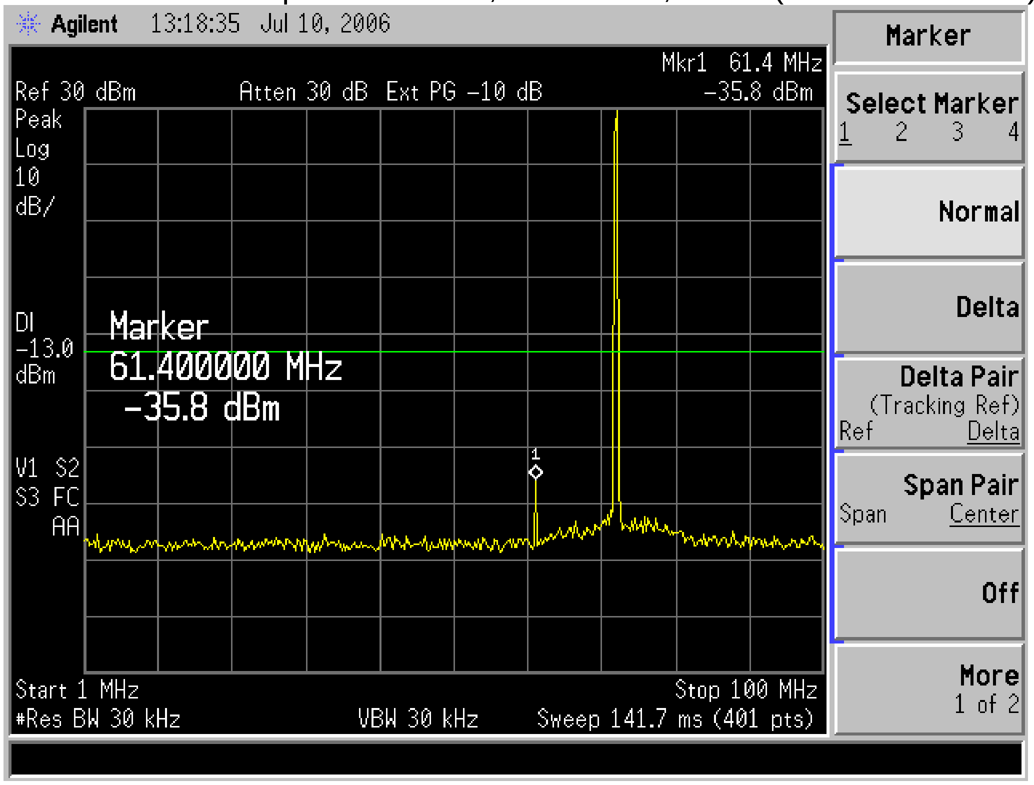


Power Output; Unit 5 (highest output observed)

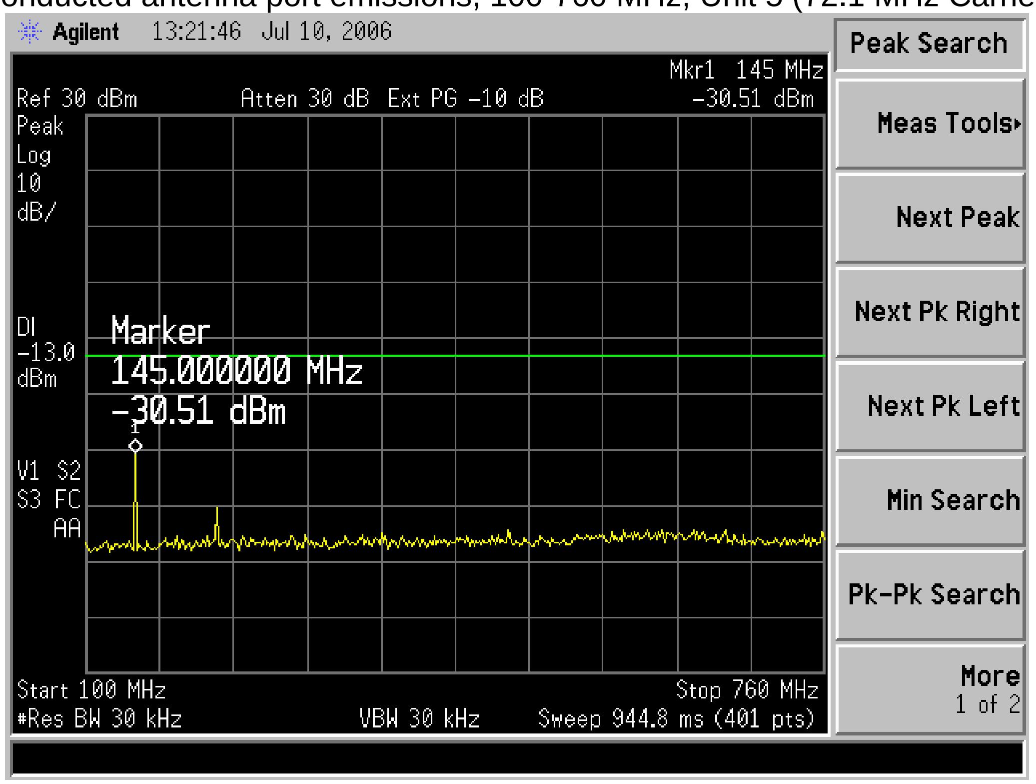




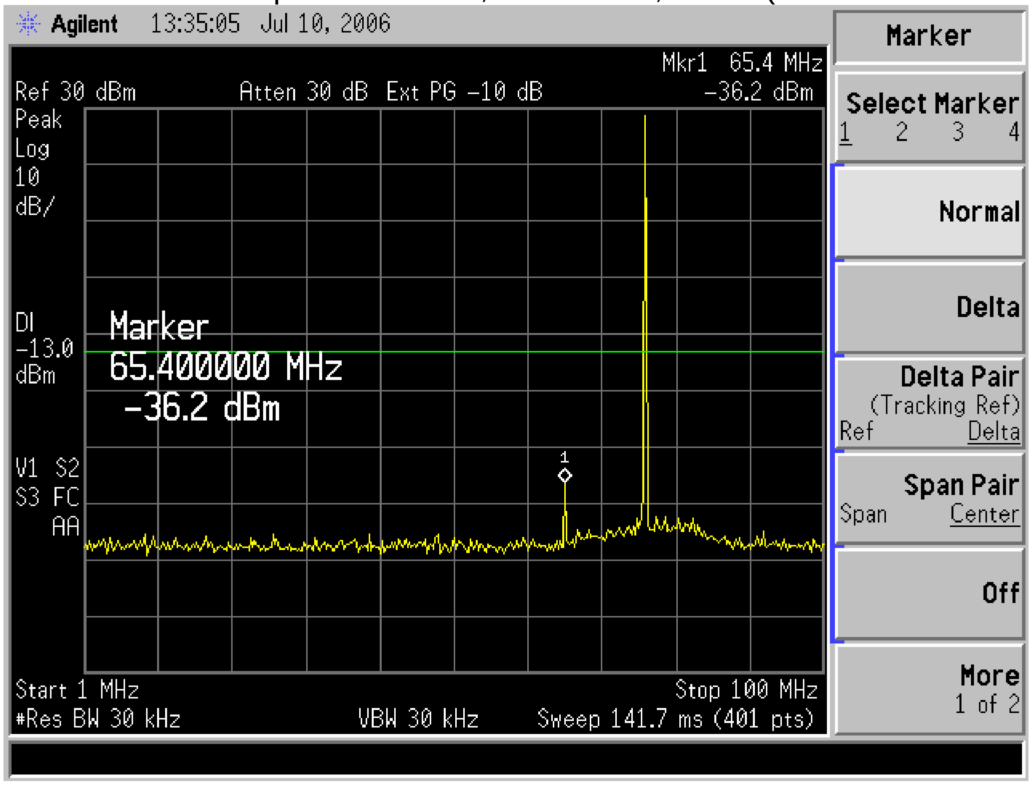
Conducted antenna port emissions, 0-100 MHz; Unit 5 (75.1 MHz Carrier)



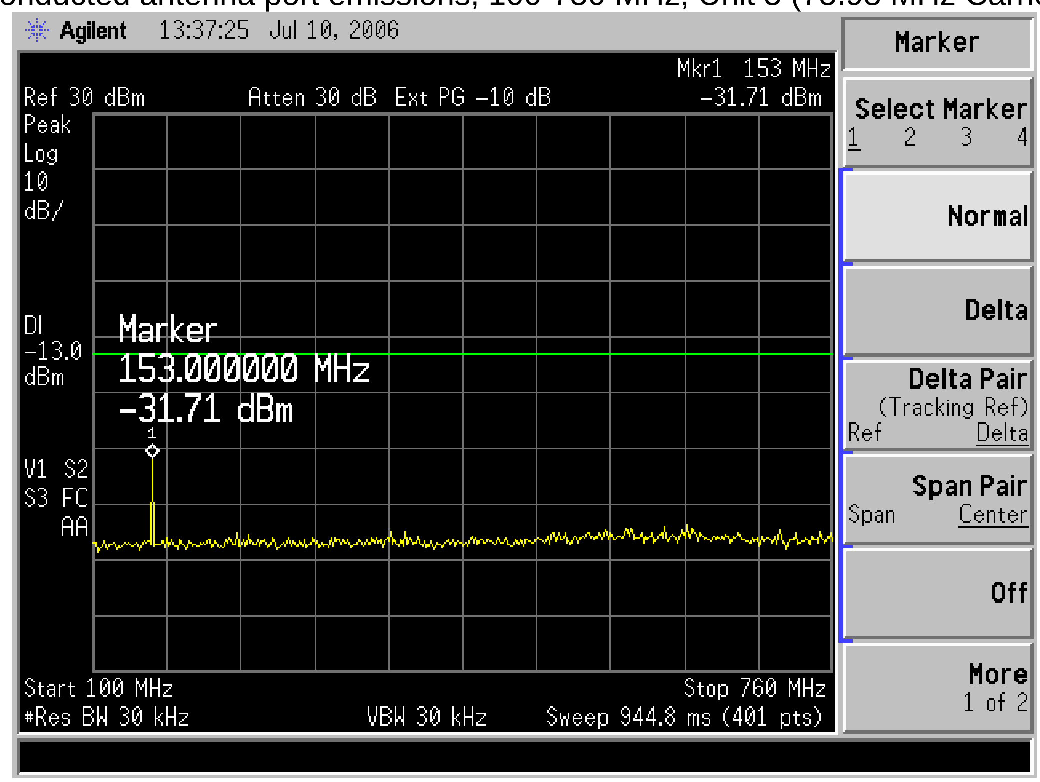
Conducted antenna port emissions, 100-760 MHz; Unit 5 (72.1 MHz Carrier)



Conducted antenna port emissions, 0-100 MHz; Unit 5 (75.98 MHz Carrier)



Conducted antenna port emissions, 100-750 MHz; Unit 5 (75.98 MHz Carrier)



13. Frequency Stability (47 CFR 2.1055; 90.213a)

Mobile stations below 2W output power must have an absolute frequency stability of **5 ppm** when operating with a 12.5 kHz bandwidth.

Test in accordance to conditions called out in Part 2.995 (a) (1): Frequency stability must be measured from **–30 to 50 degrees centigrade for (b) steps of 10 degrees** Allowing for thermal equilibrium, the measurement was performed after the desired temperature was maintained for 30 minutes.

Temperature (degree C)	Frequency (Mhz)	Frequency Delta (Mhz)	Frequency Delta (PPM)
-30	72.09995	.00002	0.2
-20	72.10003	.0001	1.3
-10	72.09998	.00005	0.65
0	72.10000	.0001	0.1
10	72.09995	.00002	0.2
20	72.09998	.00005	0.65
30	72.09995	.00002	0.2
40	72.09993	0	0.0
50	72.09993	0	0.0
Start 23°	72.09993	0	0.0

APPENDIX A - Test Equipment List

Asset #	Manufacturer	Model #	Serial #	Description	Date	Due
AA960007	EMCO	3115	9311-4138	Horn Antenna	1/25/06	1/25/07
AA960008	EMCO	3816/2NM	9701-1057	Line Impedance Stabilization	9/27/05	9/27/06
AA960014	Fischer	FCC-801-M3-25	148	Coupler/De-coupler Network	9/27/05	9/27/06
AA960015	Fischer	F-120-9B	27	Bulk Current Injection Probe	9/27/05	9/27/06
AA960016	Haefely Trench	093 506-1	083 874-03	EFT Capacitive Clamp	Note 1	Note 1
AA960020	Solar	9230-1	n/a	Radiating Loop for RS101	Note 1	Note 1
AA960021	Solar	7334-1	965308	Mag. Field Loop Sensor	9/28/05	9/28/06
AA960023	Werlatone	C3910	5167	Directional Coupler 40 dB	Note 1	Note 1
AA960024	Pasternack	100 Watt	PE 7021-6	DC-1.5 GHz Attenuator	Note 1	Note 1
AA960031	HP	119474A	3107A01708	Transient Limiter	Note 1	Note 1
AA960050	Chase	CBL6140A	1106	Bilog Antenna	Note 1	Note 1
AA960054	Giga-Tronics	80301A	1830164	Power Sensor	9/28/05	9/28/06
AA960061	Solar	9229-1	2708	Loop Sensor for RS101	9/28/05	9/28/06
AA960067	Fischer	FCC-LISN-50-100-4-01	9901	100 A (4 line) LISN	9/27/05	9/27/06
AA960071	Fischer	FCC-801-M4-63A	9902	Coupler/De-coupler Network	9/27/05	9/27/06
AA960074	Fischer	F2031-32mm	361	EM Injection Clamp	3/21/05	3/21/07
AA960076	Fischer	F201-32mm	347	Absorbing Clamp	3/07/05	3/07/07
AA960077	EMCO	93110B	9702-2918	Biconical Antenna	9/27/05	9/27/06
AA960078	EMCO	93146	9701-4855	Log-Periodic Antenna	9/27/05	9/27/06
AA960080	Fischer	FCC-801-M3-63A	9906	Coupler/De-coupler Network	5/30/06	5/30/07
AA960081	EMCO	3115	6907	Double Ridge Horn Antenna	12/07/05	12/07/06
AA960082	Wandel & Golt.	EMC-20	E-0016	EM Radiation Meter & Probe	6/02/06	6/02/07
CC00122C	HP	331A	914-03669	Distortion Analyzer	Note 1	Note 1
CC00181C	HP	33120A	US36013549	Arb. Wave Form Generator	9/28/05	9/28/06
CC00221C	Agilent	E4407B	US39160256	Spectrum Analyzer	12/29/05	12/29/06
CC00284C	Agilent	E4421B	MY41000402	Signal Generator	5/20/05	5/20/06
EE960003	Amplifier Res.	100W 1000M1A	19821	100 Watt Amp	Note 1	Note 1
EE960005	Giga-Tronics	8542C	1831450	Dual Channel Power Meter	9/28/05	9/28/06
EE960006	Haefely Trench	PESD 1600	H604079	ESD Gun	9/27/05	9/27/06
EE960007	Haefely Trench	Pline 1610	083732-19	Line Fluctuation Generator	9/28/05	9/28/06
EE960008	Haefely Trench	DEC1A	083 793-09	De-Coupling Network	Note 1	Note 1
EE960009	Haefely Trench	IP6.2	083 811-07	Coupling Network	Note 1	Note 1
EE960010	Haefely Trench	P-Surge-4.1	083061-08	Power Surge Generator	9/15/04	9/15/06
EE960013	HP	8546A	3617A00320	Receiver RF Section	9/29/05	9/29/06
EE960014	HP	85460A	3448A00296	Receiver Pre-Selector	9/29/05	9/29/06
EE960015	HP	6843A	3531A-00145	AC Power Source/Analyzer	Note 1	Note 1
EE960016	Marconi	2024	112120/044	Signal Generator	1/10/06	1/10/08
EE960042	Haefely Trench	MAG 100.1	O8013610	Magnetic Susceptibility Loop	Note 1	Note 1
EE960052	Amplifier Res.	5S1G4	25582	5 Watt Amp	Note 1	Note 1
EE960055	Amplifier Res.	75A250	21952	75 Watt Amp	Note 1	Note 1

Note 1 - Equipment calibrated within a traceable system.

APPENDIX A - Test Equipment List (continued)

Asset #	Manufacturer	Model #	Serial #	Description	Date	Due
EE960067	HP	8648A	3636A02735	Signal Generator	12/19/05	12/19/06
EE960070	Cal Instruments	1251RP	n/a	Power Supply	Note 1	Note 1
EE960071	EM Test	UCS 500-M4; CNI503	0804-35	EFT/Burst, Surge Generator	09/28/05	09/28/06
EE960072	EM Test	DPA 500	064-04	Harmonic & Flicker	11/10/04	11/10/06
EE960073	Agilent	E4446A	US45300564	Spectrum Analyzer	2/01/06	2/01/07
N/A	Narda	3203B-10	3202B10	Directional Coupler 10 dB	Note 1	Note 1

Note 1 - Equipment calibrated within a traceable system.

Appendix B - Uncertainty Statement

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level, using a coverage factor of k=2.

Table of Expanded Uncertainty Values, (K=2) for Specified Measurements

Measurement Type	Particular Configuration	Uncertainty Values
Radiated Emissions	3 – Meter chamber, Biconical Antenna	4.24 dB
Radiated Emissions	3-Meter Chamber, Log Periodic Antenna	4.8 dB
Radiated Emissions	10-Meter OATS, Biconical Antenna	4.18 dB
Radiated Emissions	10-Meter OATS, Log Periodic Antenna	3.92 dB
Conducted Emissions	Shielded Room/EMCO LISN	1.60 dB
Radiated Immunity	3 Volts/Meter in 3-Meter Chamber	1.128 Volts/Meter
Conducted Immunity	3 Volts level	1.0 V