

PERSONAL COMMUNICATIONS SECTOR

PRODUCT SAFETY AND COMPLIANCE EMC LABORATORY

EMC TEST REPORT

Test Report Number - 9491-1

Report Date - March 6, 2003

The test results contained herein relate only to the model(s) identified. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics.

As the responsible EMC Engineer, I hereby declare that the equipment tested as specified in this report conforms to the requirements indicated.

Signature Name: <u>Mark Kien</u>

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THIS REPORT MUST NOT BE USED TO CLAIM PRODUCT ENDORSEMENT BY A2LA OR ANY AGENCY OF THE U.S. GOVERNMENT.

A2LA Certificate Number: 1846-01

Title: Electrical Engineer



Date: 03/06/03

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Test Report Details

Field Strength

Tests Performed By: Underwriters Laboratory Inc.

333 Pfingsten Road

Northbrook, IL 60062-2096

PH (847) 272-8800 Fax (847) 272-8129 FCC Registration Number: 91044 Industry Canada Number: IC2180

All Other Tests Performed By: Motorola Personal Communications Sector

Product Safety and Compliance Group

600 North US Hwy 45 Libertyville, IL 60048

PH (847) 523-3642 Fax (847) 523-8274 FCC Registration Number: 100000 Industry Canada Number: IC3908

Tests Requested By: Motorola Inc.

Personal Communications Sector

600 North US Hwy 45 Libertyville, IL 60048

Product Type: Cellular Phone

Signaling Capability: Analog, CDMA 800, CDMA 1900

Model Number: C18

Serial Numbers: 42FB402D, 42FB403C, 42FB403B

42FB402E

Received Date: 2/9/2003

Testing Start Date: 2/9/2003

Testing Complete Date: 3/6/2003

Applicable Standards

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

X Part 15 Subpart B – Unintentional Radiators
 X Part 22 Subpart H - Public Mobile Services
 X Part 24 - Personal Communications Services
 Part 90 - Private Land Mobile Radio Service

Applicable Standards: TIA EIA 98-C, ANSI 63.4 2000, RSS-118, RSS-129, RSS-133

Summary of Testing

Test #	Test Name	Pass/Fail
1 2 3 4 5 6 7	RF Power Output Modulation Characteristics Occupied Bandwidth Spurious Emissions at Antenna Terminal Field Strength of Spurious Emissions Frequency Stability Field Strength of Spurious Emissions from Unintentional Radiators	NA Pass Pass Pass Pass Pass Pass Pass
Test #	Test Name	Margin with respect to the Limit
1 2 3 4 5 6 7	RF Power Output Modulation Characteristics Occupied Bandwidth Spurious Emissions at Antenna Terminal Field Strength of Spurious Emissions Frequency Stability Field Strength of Spurious Emissions from Unintentional Radiators	NA NA See Plots 4.1 dB 14.6 dB 120 Hz 11.9 dB

The margin with respect to the limit is the minimum margin for all modes and bands. () indicates the margin at which the product exceeds the limit.

General and Special Conditions

The EUT was tested using a fully charged battery when applicable. Where a battery could not be used due to the need for a controlled variation of input voltage, an external power supply was utilized.

All testing was done in an indoor controlled environment with an average temperature of 22° C and relative humidity of 50%.

Equipment and Cable Configurations

The EUT was tested in a stand-alone configuration that is representative of typical use.

Measuring Equipment and Calibration Information

Manufacturer Name	Item Name Description	Model #	Serial Number	Calibration Due Date
Agilent	EMC Analyzer	E7405A	US40240219	3/27/2003
Hewlett Packard	QP Adapter	85650A	2811A01069	1/15/2004
Hewlett Packard	S/A Display	8566B	2542A12974	1/15/2004
Hewlett Packard	S/A	8566B	2637A03376	1/15/2004
Hewlett Packard	RF Preselector	85685A	2810A00692	1/15/2004
Rohde & Schwarz	S/A	FSEK20	DE2525315	1/14/2004
EMCO	Horn Antenna 1-18GHz	3115	8812-3032	3/23/2003
EMCO	Horn Antenna 1-18GHz	3115	2638	3/23/2003
EMCO	Horn Antenna 18-26.5GHz	3160-09	9904-1165	7/2/2003
Chase	Bi-Con Antenna 30-300MHz	VBA6106A	1246	6/18/2003
Chase	Log-Periodic Antenna	UPA6108	1120	6/20/2003
Weinschel	Attenuator Kit – 10, 6 dB	2	AS6-6675	10/11/2003
Thermotron	Environmental Chamber	F32-CHMV-15-15-2	18389	11/1/2003
Hewlett Packard	CDMA Mobile Test Set	8924C	US37392461	7/24/2003
Hewlett Packard	System DC Power Supply	6632A	3326A07674	5/29/2003
Hewlett Packard	PCS Interface	83236B	3711J03010	8/16/2004
Agilent	Wireless Communication Test Set	8960 Series 10	GB42360906	9/10/2003
Hewlett Packard	Modulation Analyzer	8901B	2441A00395	5/17/2003
Giga-tronics	Universal Power Meter	8652A	8650494	1/7/2004
Giga-tronics	Power Sensor	80701A	1833992	12/12/2003

Measurement Procedures and Data

RF POWER OUTPUT

Measurement Procedure

The RF output port of the equipment under test is directly coupled to the input of the 8650 series Gigatronics power meter through a specialized RF connector. The power meter is set for Modulated Average Power (MAP) mode. The power output is measured for all channels.

CFR Part 2.1046

Measurement Results

* Data supplied by SAR Lab

ANALOG

Frequency (MHz)	Power (dBm)
824.04	27.80
836.52	27.82
848.97	27.78

CDMA 800

Frequency (MHz)	Power (dBm)
824.7	25.03
836.52	25.00
848.37	25.01

CDMA 1900

Frequency (MHz)	Power (dBm)
1851.25	25.06
1880.0	25.06
1908.75	24.99

MODULATION CHARACTERISTICS

FCC ID: IHDT56CW1

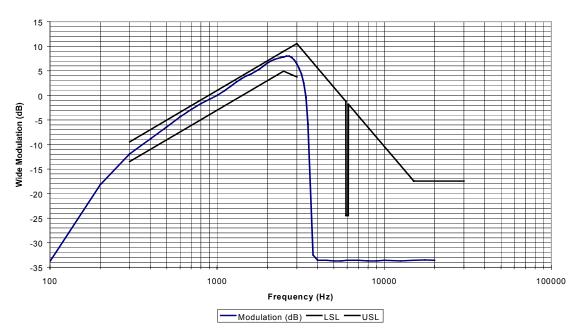
EXHIBIT 6

CFR Part 2.1047, 22.915

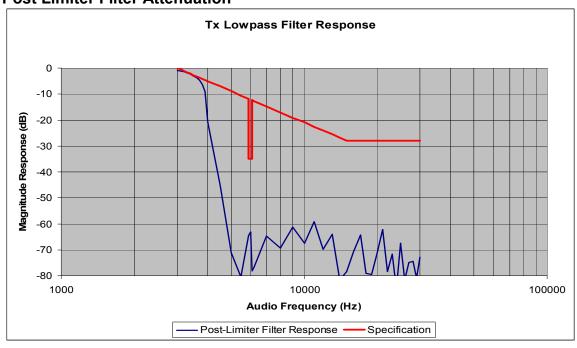
Measurement Results -AMPS

* Data supplied by product group **Transmit Audio Frequency Response**

Tx Audio Response



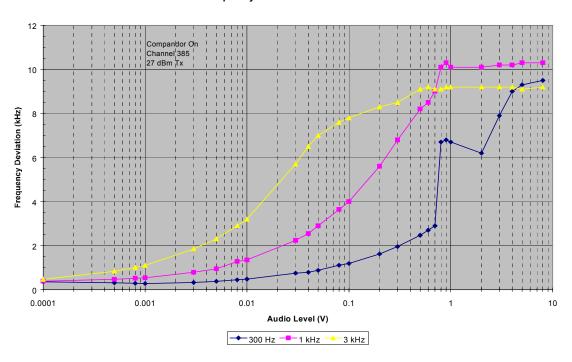
Post Limiter Filter Attenuation



Modulation Limiting vs. Modulation Input Voltage

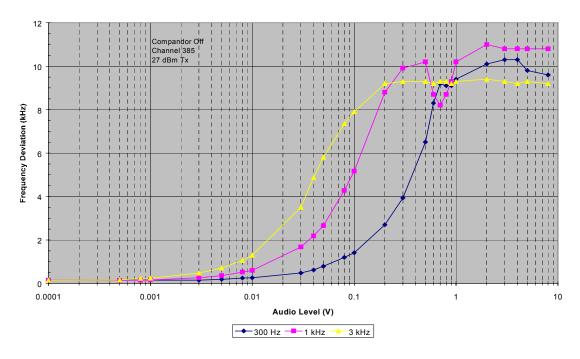
Compandor On

Frequency Deviation Characteristic



Compandor Off

Frequency Deviation Characteristic



OCCUPIED BANDWIDTH

CFR Part 2.1049, 22.917, 24.238

Measurement Procedure

The RF output port of the equipment under test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. The amplitude of the spectrum analyzer is corrected for the attenuator and any other applicable losses. The analyzer is set for Peak Detector and each trace is set for Max Hold. A fully charged battery was used for the supply voltage.

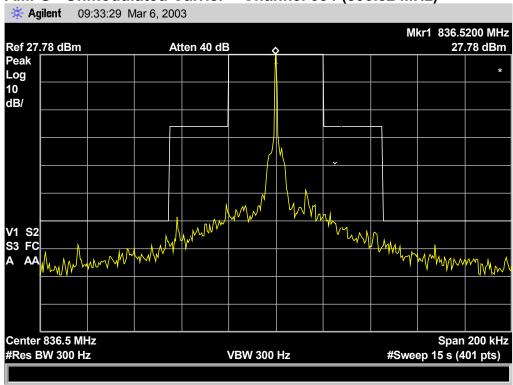
The middle channel within the designated frequency block was measured. For digital modulation, the lower and upper band edge plots are displayed.

Measurement Results

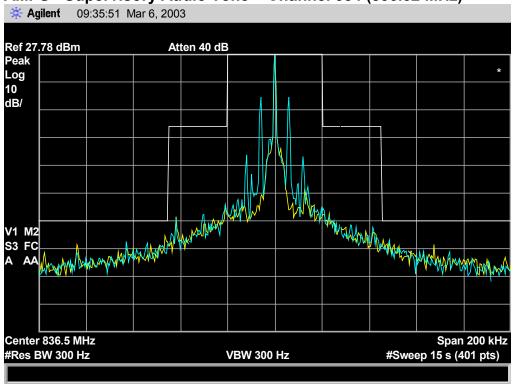
Attached

<u>Measurement Results – AMPS</u>

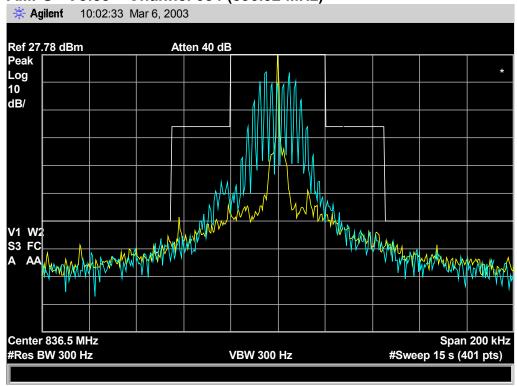
AMPS - Unmodulated Carrier – Channel 384 (836.52 MHz)



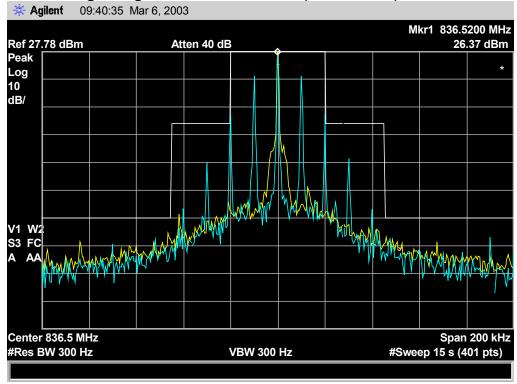
AMPS - Supervisory Audio Tone - Channel 384 (836.52 MHz)



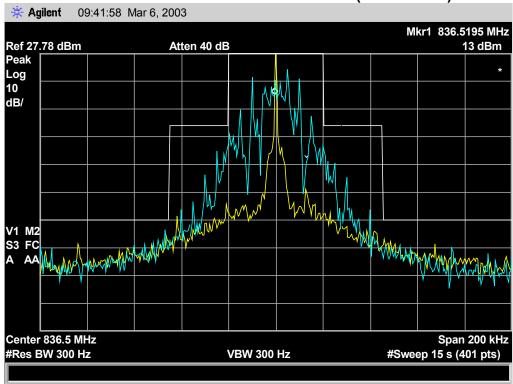
AMPS - Voice - Channel 384 (836.52 MHz)



AMPS - Signaling Tone - Channel 384 (836.52 MHz)

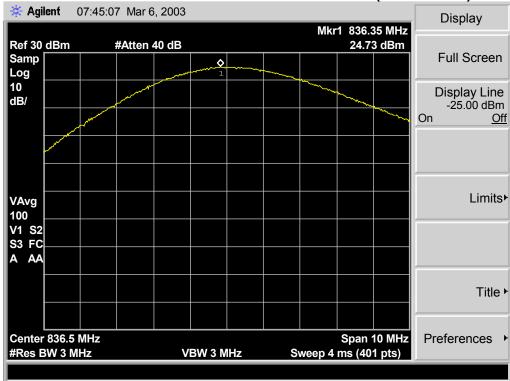




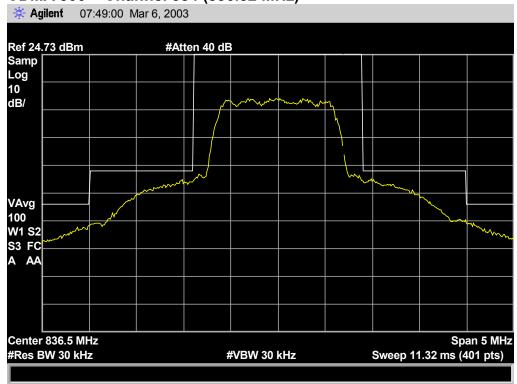


Measurement Results - CDMA 800

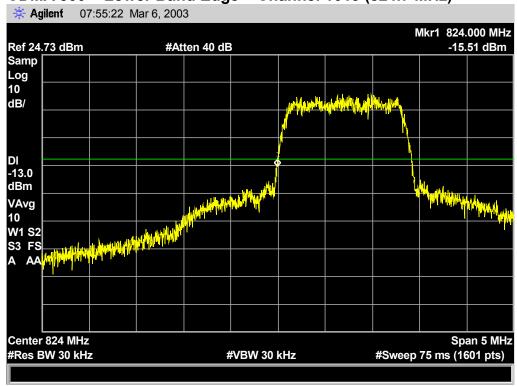
CDMA 800 – Reference Level Plot – Channel 384 (836.52 MHz)



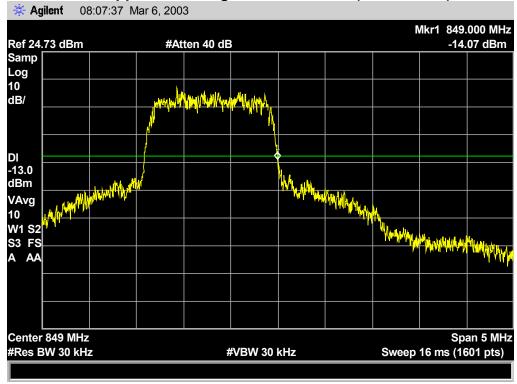
CDMA 800 - Channel 384 (836.52 MHz)



CDMA 800 - Lower Band Edge - Channel 1013 (824.7 MHz)

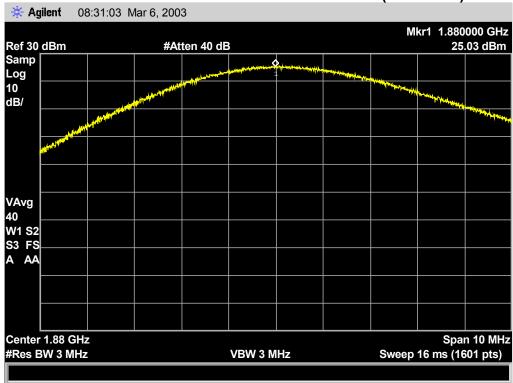


CDMA 800 - Upper Band Edge - Channel 777 (848.31 MHz)

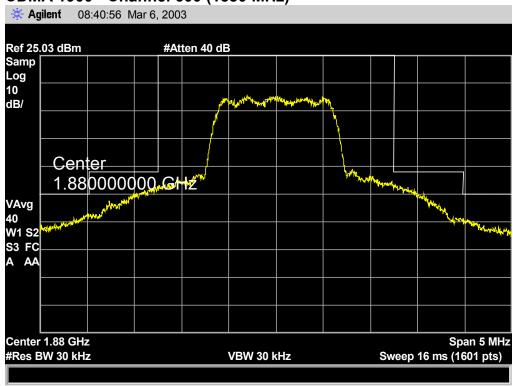


Measurement Results - CDMA 1900

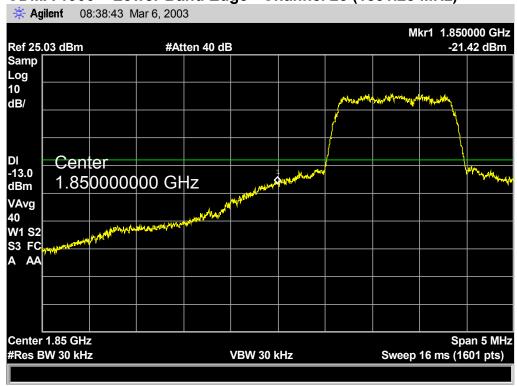
CDMA 1900 - Reference Level Plot - Channel 600 (1880 MHz)



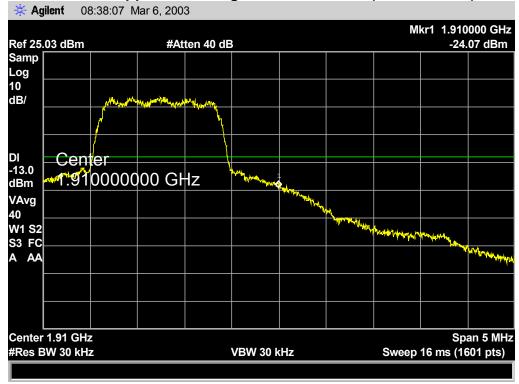
CDMA 1900 - Channel 600 (1880 MHz)



CDMA 1900 – Lower Band Edge - Channel 25 (1851.25 MHz)



CDMA 1900 – Upper Band Edge - Channel 1175 (1908.75 MHz)



SPURIOUS EMISSIONS AT ANTENNA TERMINALS

CFR Part 2.1051, 22.917, 24.238

Measurement Procedure

The RF output port of the Equipment Under Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

The spectrum was investigated from the lowest frequency signal generated, without going below 9 kHz, up to at least the tenth harmonic of the fundamental or 40 GHz, whichever is lower.

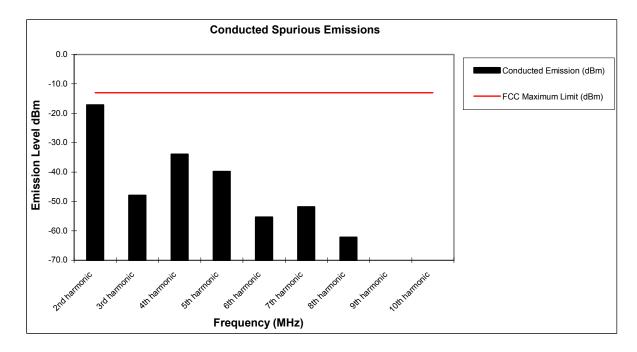
Measurements were made with the phone tuned to low, middle and high frequency within the valid mobile transmit frequency band. The worst case emissions of all three frequency configurations can be found below. Measurements for Spurious emission levels were also measured in the cellular base station frequency range (869-894 MHz).

Measurement Results

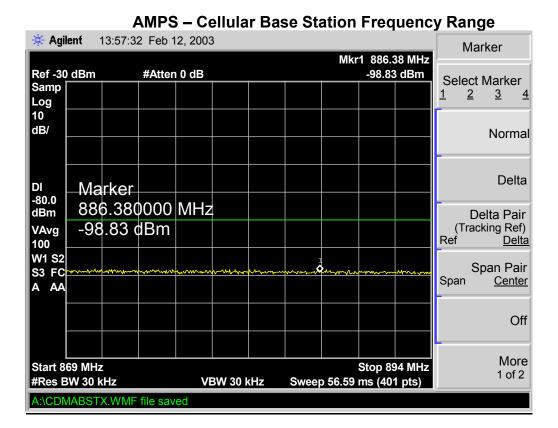
Attached

Measurement Results Modulation: AMPS

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-17.1
3rd harmonic	-13	-47.9
4th harmonic	-13	-34.0
5th harmonic	-13	-39.8
6th harmonic	-13	-55.4
7th harmonic	-13	-51.9
8th harmonic	-13	-62.2
9th harmonic	-13	*
10th harmonic	-13	*



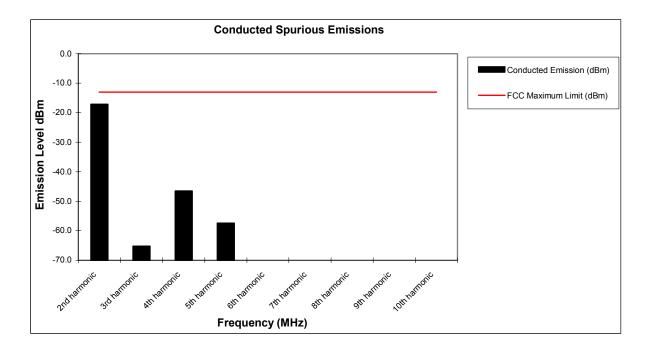
- 1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- 2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- 3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.



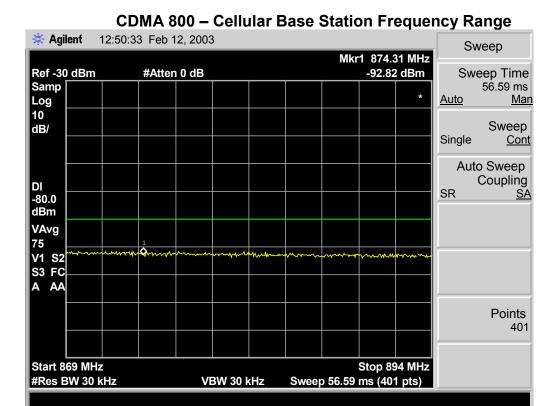
APPLICANT: MOTOROLA INC

Measurement Results Modulation: CDMA 800

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-17.1
3rd harmonic	-13	-65.3
4th harmonic	-13	-46.5
5th harmonic	-13	-57.4
6th harmonic	-13	*
7th harmonic	-13	*
8th harmonic	-13	*
9th harmonic	-13	*
10th harmonic	-13	*

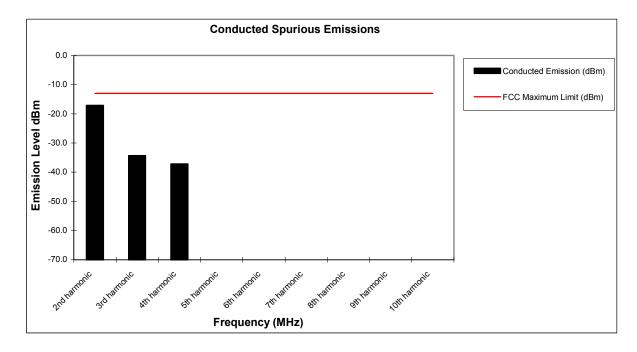


- 1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- 2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- 3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.



Measurement Results Modulation: CDMA 1900

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-17.1
3rd harmonic	-13	-34.3
4th harmonic	-13	-37.2
5th harmonic	-13	*
6th harmonic	-13	*
7th harmonic	-13	*
8th harmonic	-13	*
9th harmonic	-13	*
10th harmonic	-13	*



- 1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- 2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- 3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

FIELD STRENGTH OF SPURIOUS EMISSIONS

CFR Part 2.1053, 22.917, 24.238

Measurement Procedure

The equipment under test is placed inside the semi-anechoic chamber on a wooden table at the turntable center. For each spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum reading on the spectrum analyzer. This is repeated for both horizontal and vertical polarizations of the receive antenna.

After all the spurious emissions were investigated and reported, the equipment under test is then replaced with a substitution antenna fed by a signal generator. With the signal generator tuned to a particular spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters to obtain a maximum reading at the spectrum analyzer. The output of the signal generator is then adjusted until a reading identical to that obtained with the actual transmitter is achieved.

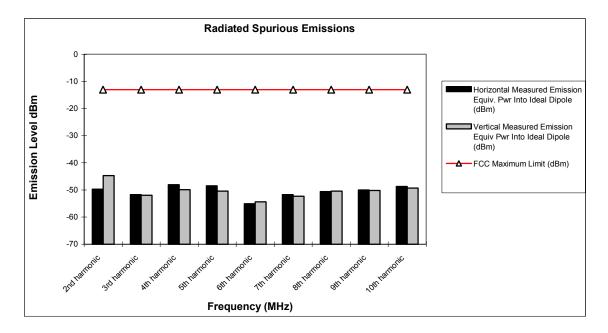
The power in dBm of each spurious emission is calculated by correcting the signal generator level for cable loss and gain of the substitution antenna referenced to a dipole. A fully charged battery was used for the supply voltage.

Measurement Results

Attached

Measurement Results Modulation: AMPS

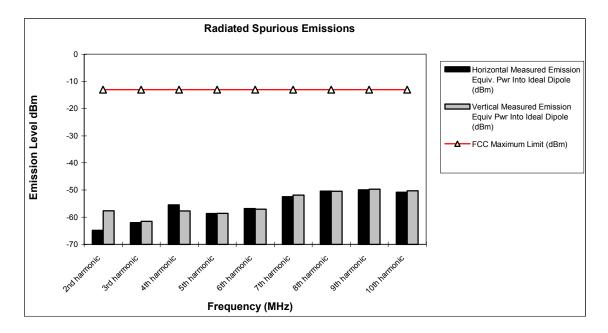
Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	-49.7	-44.7
3rd harmonic	-13	-51.7	-52.0
4th harmonic	-13	-48.1	-49.9
5th harmonic	-13	-48.5	-50.4
6th harmonic	-13	-55.1	-54.4
7th harmonic	-13	-51.7	-52.3
8th harmonic	-13	-50.6	-50.4
9th harmonic	-13	-50.0	-50.2
10th harmonic	-13	-48.7	-49.3



- 1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- 2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, and high channels at maximum power.
- 3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

Measurement Results Modulation: CDMA 800

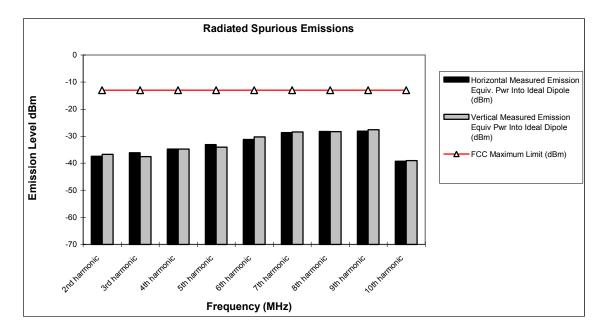
Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	-64.8	-57.7
3rd harmonic	-13	-62.0	-61.5
4th harmonic	-13	-55.5	-57.7
5th harmonic	-13	-58.6	-58.6
6th harmonic	-13	-56.8	-57.0
7th harmonic	-13	-52.4	-51.9
8th harmonic	-13	-50.4	-50.4
9th harmonic	-13	-49.9	-49.7
10th harmonic	-13	-50.8	-50.3



- 1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- 2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, and high channels at maximum power.
- 3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

Measurement Results Modulation: CDMA 1900

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	-37.4	-36.7
3rd harmonic	-13	-36.1	-37.5
4th harmonic	-13	-34.7	-34.7
5th harmonic	-13	-33.1	-34.0
6th harmonic	-13	-31.2	-30.2
7th harmonic	-13	-28.6	-28.4
8th harmonic	-13	-28.2	-28.3
9th harmonic	-13	-28.1	-27.6
10th harmonic	-13	-39.3	-39.0



- 1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- 2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, and high channels at maximum power.
- 3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

FREQUENCY STABILITY

CFR Part 2.1055, 22.355, 24.235

Measurement Procedure

The equipment under test is placed in an environmental chamber. The antenna port of the Equipment Under Test is directly coupled to the input of the measurement equipment through a specialized RF connector. A power supply is attached as the primary voltage supply.

Frequency measurements are made at the extremes of the temperature range -30° C to +60° C and at intervals of 10° C with the primary supply voltage set to the nominal battery operating voltage. A period of time sufficient to stabilize all components of the equipment is allowed at each frequency measurement. The maximum variation of frequency is measured.

At room temperature, the primary supply voltage is reduced to the battery operating endpoint of the equipment under test. The maximum variation of frequency is measured.

Measurement Results

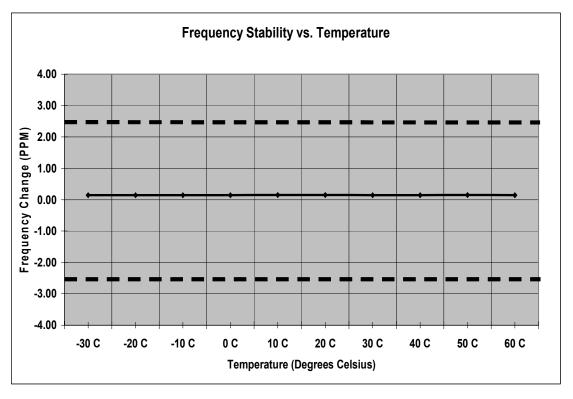
Attached

Measurement Results Modulation: AMPS

Frequency Stability

Mode:AnalogOperating Frequency:836.52 MHzChannel:384Deviation Limit (PPM):2.5ppm

Temperature	Frequency Error	Frequency Error	Voltage	Voltage
С	HZ	(PPM)	(%)	(VDC)
-30 C	120.00	0.143	100%	4.00
-20 C	120.00	0.143	100%	4.00
-10 C	120.00	0.143	100%	4.00
0 C	120.00	0.143	100%	4.00
10 C	121.00	0.145	100%	4.00
20 C	122.00	0.146	100%	4.00
30 C	120.00	0.143	100%	4.00
40 C	120.00	0.143	100%	4.00
50 C	124.00	0.148	100%	4.00
60 C	120.00	0.143	100%	4.00
		<u> </u>		
20 C	123.00	0.147	Battery Endpoint	3.60



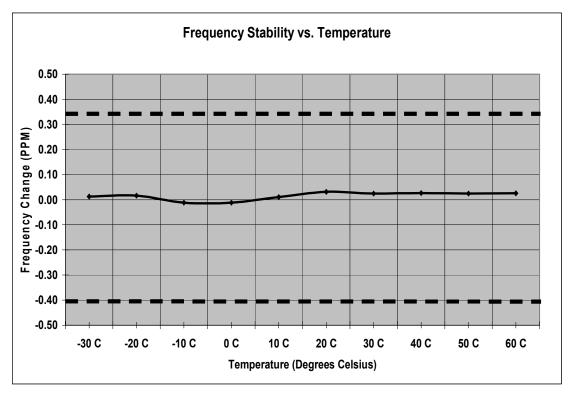
Measurement Results

Modulation: CDMA 800

Frequency Stability

Mode:CDMA 800Operating Frequency:836.52 MHzChannel:384Deviation Limit (PPM):0.359ppm (+/-300 Hz)

Temperature	Frequency Error	Frequency Error	Voltage	Voltage
С	HZ	(PPM)	(%)	(VDC)
-30 C	10.40	0.012	100%	4.00
-20 C	13.40	0.016	100%	4.00
-10 C	-10.00	-0.012	100%	4.00
0 C	-10.00	-0.012	100%	4.00
10 C	8.70	0.010	100%	4.00
20 C	25.90	0.031	100%	4.00
30 C	20.40	0.024	100%	4.00
40 C	22.00	0.026	100%	4.00
50 C	20.00	0.024	100%	4.00
60 C	21.00	0.025	100%	4.00
20 C	-40.00	-0.048	Battery Endpoint	3.60



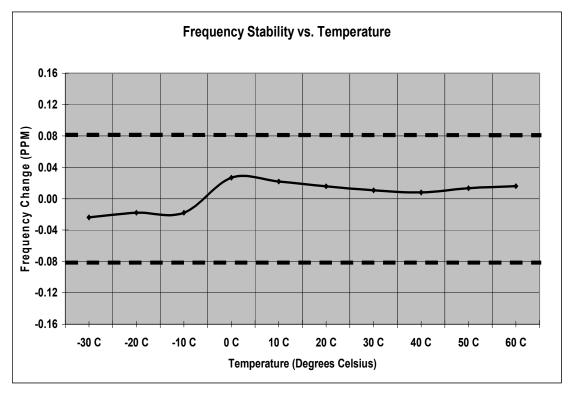
Measurement Results Modulation: CDMA 1900

Frequency Stability

 Mode:
 CDMA 1900
 Operating Frequency:
 1880.0 MHz

 Channel:
 600
 Deviation Limit (PPM):
 0.08ppm (+/-150Hz)

Temperature	Frequency Error	Frequency Error	Voltage	Voltage
С	HZ	(PPM)	(%)	(VDC)
-30 C	-45.10	-0.024	100%	4.00
-20 C	-33.70	-0.018	100%	4.00
-10 C	-33.70	-0.018	100%	4.00
0 C	50.10	0.027	100%	4.00
10 C	41.10	0.022	100%	4.00
20 C	29.70	0.016	100%	4.00
30 C	20.00	0.011	100%	4.00
40 C	15.00	0.008	100%	4.00
50 C	25.00	0.013	100%	4.00
60 C	30.00	0.016	100%	4.00
20 C	42.50	0.023	Battery Endpoint	3.60



FIELD STRENGTH OF EMISSIONS FROM UNINTENTIONAL RADIATORS

CFR Part 15.109

Measurement Procedure

The equipment under test is placed inside the semi-anechoic chamber on a wooden table at the turntable center. For each radiated emission, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum peak reading on the spectrum analyzer. The radiated emissions are then measured using an EMI receiver employing a CISPR quasi-peak detector function below 1000 MHz and an average detector function above 1000 MHz. This is repeated for both horizontal and vertical polarizations of the receive antenna. A fully charged battery was used for the supply voltage.

The field strength of each radiated emission is calculated by correcting the EMI receiver level for cable loss, amplifier gain, and antenna correction factors.

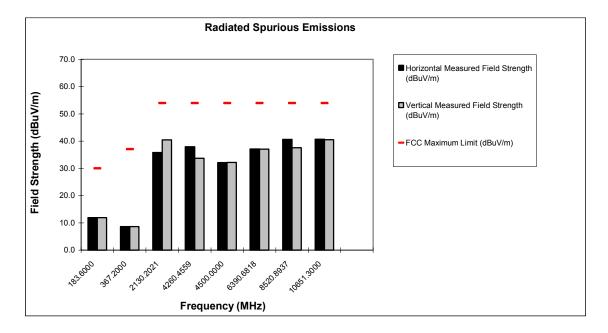
Field Strength (dBuV/m) = EMI Receiver Level (dBuV) + Cable Loss (dB) Amplifier Gain (dB) + Antenna Correction Factor (1/m)

Measurement Results

Attached

Measurement Results Modulation: AMPS

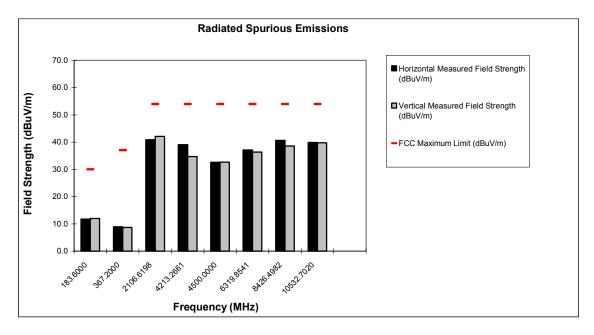
Frequency (MHz)	FCC Maximum Limit (dBuV/m)	Horizontal Measured Field Strength (dBuV/m)	Vertical Measured Field Strength (dBuV/m)
183.6000	30	11.9	11.9
367.2000	37	8.6	8.6
2130.2021	54	35.8	40.5
4260.4559	54	38.0	33.7
4500.0000	54	32.1	32.1
6390.6818	54	37.1	37.0
8520.8937	54	40.7	37.6
10651.3000	54	40.8	40.5



- 1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- 2. Each emission reported reflects the highest absolute level at the specific frequency for the low and high channels.

Measurement Results Modulation: CDMA 800

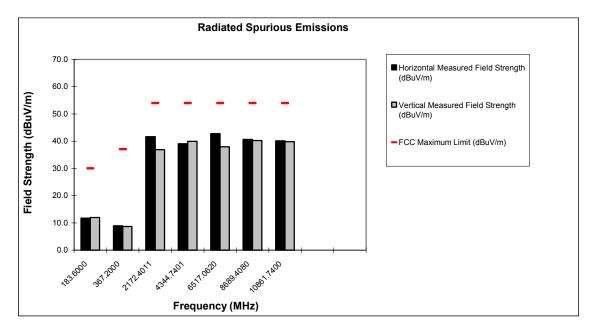
Frequency (MHz)	FCC Maximum Limit (dBuV/m)	Horizontal Measured Field Strength (dBuV/m)	Vertical Measured Field Strength (dBuV/m)
183.6000	30	11.7	12.0
367.2000	37	8.9	8.7
2106.6198	54	40.9	42.1
4213.2661	54	39.1	34.7
4500.0000	54	32.6	32.6
6319.8541	54	37.1	36.3
8426.4982	54	40.7	38.6
10532.7020	54	39.9	39.8



- 1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- 2. Each emission reported reflects the highest absolute level at the specific frequency for the low and high channels.

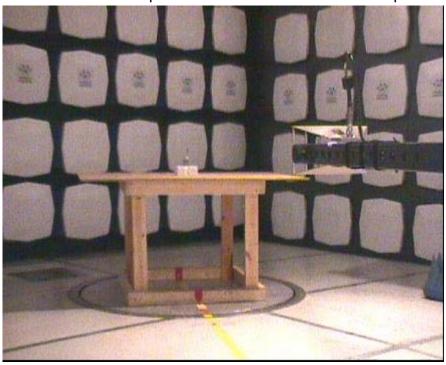
Measurement Results Modulation: CDMA 1900

Frequency (MHz)	FCC Maximum Limit (dBuV/m)	Horizontal Measured Field Strength (dBuV/m)	Vertical Measured Field Strength (dBuV/m)
183.6000	30	11.7	12.0
367.2000	37	8.9	8.7
2172.4011	54	41.6	36.9
4344.7401	54	39.1	39.9
6517.0620	54	42.8	37.9
8689.4080	54	40.7	40.3
10861.7400	54	40.1	39.8

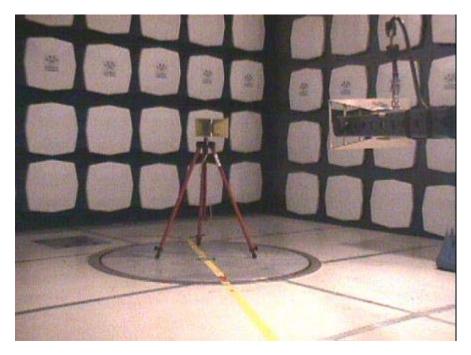


- 1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- 2. Each emission reported reflects the highest absolute level at the specific frequency for the low and high channels.

Appendix A – Radiated Emissions Test Setup Photos Note: Photos are representative of the test house setup used.



A.1 Radiated Emissions Measurement



A.2 Substitution Measurement

End of Test Report