

TEST RESULT SUMMARY

FCC Part 24

MANUFACTURER ADC Inc.

NAME OF EQUIPMENT Digivance Long Range Coverage Solution 1900 MHz System (A,D / D,B,E / B,E,F / E,F,C Band)

MODEL NUMBERS
DGVL-431110SYS
DGVL-441110SYS
DGVL-451110SYS
DGVL-461110SYS

MANUFACTURER'S ADDRESS P.O. Box 1101
Minneapolis, MN 55440-1101

TEST REPORT NUMBER WC505745 Rev A

TEST DATES 30 September 2005 (ADC)
9, 10 November 2005 (TÜV)

According to testing performed at TÜV America Inc, the above-mentioned unit is in compliance with the electromagnetic compatibility (EMC) portions of the requirements defined in FCC Part 24.

It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics. Any modifications necessary for compliance made during testing on the above mentioned date(s) must be implemented in all production units for compliance to be maintained.

TÜV America Inc, as an independent testing laboratory, declares that the equipment tested as specified above conforms to the EMC requirements of FCC Part 24, Subpart E "Broadband PCS" Sections 24.232 "Power and antenna height limits", 24.235 "Frequency stability", 24.238 "Emission limitations for Broadband PCS equipment".

Date: 21 April 2006

Tested By

Technical Writer



Joe Sausen, Michael Schultz



Greg Jakubowski

Not Transferable

EMC Emission - TEST REPORT

Test Report File No. : **WC505745 Rev A** Date of issue: 15 February 2006

Model Nos. : **DGVL-431110SYS**
DGVL-441110SYS
DGVL-451110SYS
DGVL-461110SYS

Product Name : Digivance Long Range Coverage Solution 1900 MHz System
(A,D / D,B,E / B,E,F / E,F,C Band)

Product Type : Transports RF between a remote antenna and a customer provided base station

Applicant : ADC Inc.

Manufacturer : ADC Inc.

License Holder : ADC Inc.

Address : P.O. Box 1101
Minneapolis, MN 55440-1101

Test Result : ☒ Positive ☐ Negative

Test Project Number :
Reference(s) : **WC505745 Rev A**

Total pages including Appendices : **180**

TÜV America Inc reports apply only to the specific samples tested under stated test conditions. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. TÜV America Inc shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV America Inc issued reports.

This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval. This report shall not be used by the client to claim product endorsement by NVLAP, NIST, or any agency of the US government.

TÜV America Inc and its professional staff hold government and professional organization certifications and are members of AAMI, ACIL, AEA, ANSI, IEEE, NVLAP, and VCCI

REVISION RECORD

REVISION	TOTAL NUMBER OF PAGES	DATE	DESCRIPTION
	181	15 February 2006	Initial Release
A	181	21 April 2006	Revisions include: ▪ Pages A2-A3, Updated EIRP Test Data

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☐ - not applicable	
☒ - applicable	

EMISSIONS TEST REGULATIONS :

The emissions tests were performed according to following regulations:

- ☐ - EN 50081-1 / 1991
- ☐ - EN 55011 / 1991

- ☐ - Group 1
- ☐ - Class A

- ☐ - Group 2
- ☐ - Class B

- ☐ - EN 55013 / 1990
- ☐ - EN 55014 / 1987

- ☐ - Household appliances and similar
- ☐ - Portable tools
- ☐ - Semiconductor devices

- ☐ - EN 55014 / A2:1990
- ☐ - EN 55014 / 1993

- ☐ - Household appliances and similar
- ☐ - Portable tools
- ☐ - Semiconductor devices

- ☐ - EN 55015 / 1987
- ☐ - EN 55015 / A1:1990
- ☐ - EN 55015 / 1993
- ☐ - EN 55022 / 1987
- ☐ - EN 55022 / 1991

- ☐ - Class A
- ☐ - Class A

- ☐ - Class B
- ☐ - Class B

- ☐ - BS
- ☐ - VCCI

- ☐ - Class A

- ☐ - Class B

- ☐ - FCC Part 15 Subpart B
- ☐ - FCC Part 15 Subpart C
- ☒ - FCC Part 24

- ☐ - Class A

- ☐ - Class B

- ☐ - CISPR 11 (1990)

- ☐ - Group 1
- ☐ - Class A

- ☐ - Group 2
- ☐ - Class B

- ☐ - CISPR 22 (1993)

- ☐ - Class A

- ☐ - Class B

- ☐ - IC RSS-Gen Issue 1
- ☐ - IC RSS-193 Issue 1

24.232 Power and antenna height limits

Test summary

The requirements are: ☒ - MET ☐ - NOT MET

Minimum margin of compliance is 7.67 dB at 1950 MHz (Band BEF)

Test location

☐ - Wild River Lab Large Test Site (Open Area Test Site)

☐ - Wild River Lab Small Test Site (Open Area Test Site)

☒ - ADC facility

Test Distance

☐ - 3 meters

☐ - 10 meters

☒ - Conducted measurement

Test equipment (ADC)

Model Number	Manufacturer	Description	ADC Serial Number	Cal Due
49-30-33	Aeroflex	Attenuator	n/a	CNR
HP8563E	HP	Spectrum Analyzer	MC27690	6-22-06
EPM-441A	HP	Power Meter	MC27670	9-28-06

Equipment with a Calibration Not Required (CNR) listing is verified and compensated for with NIST traceable calibrated equipment.

Test limit

100 watts or 50 dBm

Test Data

See page A2 – A3

24.235 Frequency stability

Test summary

The requirements are: ■ - MET □ - NOT MET

The fundamental emission stays within the authorized frequency block

Frequency measured over a temperature range of -30 to 50°C and an input voltage range of 102 to 138 VAC

Test location

□ - Wild River Lab Large Test Site (Open Area Test Site)

□ - Wild River Lab Small Test Site (Open Area Test Site)

■ - ADC facility

Test equipment (ADC)

Model Number	Manufacturer	Description	ADC Serial Number	Cal Due
26III	Fluke	Multimeter	MC22687	4-27-06
5347A	HP	Freq. Counter	MC27569	7-21-06
1520CT	Staco	Variable Auto Transformer	MC/44655	CNR
E4436B	Agilent	Signal Generator	963739	10-16-06

Equipment with a Calibration Not Required (CNR) listing is verified and compensated for with NIST traceable calibrated equipment.

Test limit

The emission must stay within the authorized frequency block

Test data

See pages A4 – A7

24.238 Emission limitations for Broadband PCS equipment

Test summary

The requirements are: ■ - MET □ - NOT MET

Out of band emissions were less than -13dBm from the equation $(19\text{dBm} - [43 + 10\log(0.08\text{W})])$

Outside the emission bandwidth of the carrier, all emissions are attenuated at least 26 dB below the transmitter power

Test location

■ - Wild River Lab Large Test Site (Open Area Test Site)

□ - Wild River Lab Small Test Site (Open Area Test Site)

■ - ADC facility

Test equipment (ADC)

Model Number	Manufacturer	Description	ADC Serial Number	Cal Due
49-30-33	Aeroflex	Attenuator	n/a	CNR
HP8563E	HP	Spectrum Analyzer	MC27690	6-22-06
EPM-441A	HP	Power Meter	MC27670	9-28-06
26III	Fluke	Multimeter	MC22687	4-27-06
5347A	HP	Freq. Counter	MC27569	7-21-06
Thermotron	Thermotron	Temperature Chamber	MC18966	3-1-06
1520CT	Staco	Variable Auto Transformer	MC/44655	CNR
E4436B	Agilent	Signal Generator	963739	10-16-06
E4436B	Agilent	Signal Generator	MC50601	12-29-06

Equipment with a Calibration Not Required (CNR) listing is verified and compensated for with NIST traceable calibrated equipment.

Test equipment (TUV)

TUV ID	Model Number	Manufacturer	Description	Serial Number	Cal Due
3203	EM-6917B	Electro-Metrics	Biconicalog Periodic	106	01-Apr-06
2075	3115	Electro-Mechanics (EMCO)	Ridge Guide Ant. 1-18 GHz	9001-3275	07-Dec-06
3961	ZHL-1042J	Mini-Circuits	Preamplifier	D120403-1	Code B
3958	SL18B4020	Phase One Microwave	Preamplifier 1 – 18 GHz	0002	Code B
2681	85650A	Hewlett-Packard	Quasi-Peak Adapter	2430A00562	03-Feb-06
8052	8566B	Hewlett-Packard	Spectrum Analyzer	2115A00853	24-Mar-06
8051	85662A	Hewlett-Packard	Analyzer Display	2112A02220	24-Mar-06
3367	E4440A	Agilent	Spectrum Analyzer	MY43362222	02-Sep-06
6717	3116	Electro-Mechanics (EMCO)	Ridge Guide Ant 18-40 GHz	2005	19-Sep-06

Cal Code B = Calibration verification performed internally. Cal Code Y = Calibration not required when used with other calibrated equipment.

Test limits

Out of band emissions:

Attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

$(19\text{dBm} - [43 + 10\log(0.08\text{W})]) = -13 \text{ dBm}$

Outside of the carrier emission bandwidth:

26 dB below the transmitter power

Test data

Occupied bandwidth, pages A8 – A20

Conducted Emissions, pages A21 – A45

Radiated emissions, pages A46 – A81

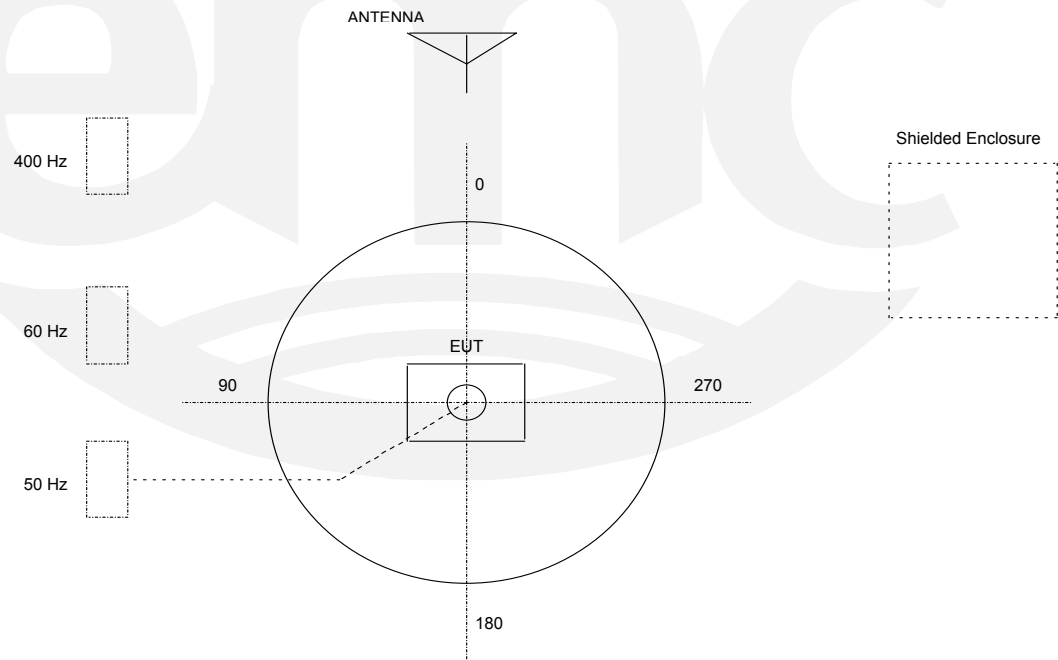
Inter-Modulation Test, pages A82 – A154

TEST SETUP FOR EMISSIONS TESTING

WILD RIVER LAB Large Test Site

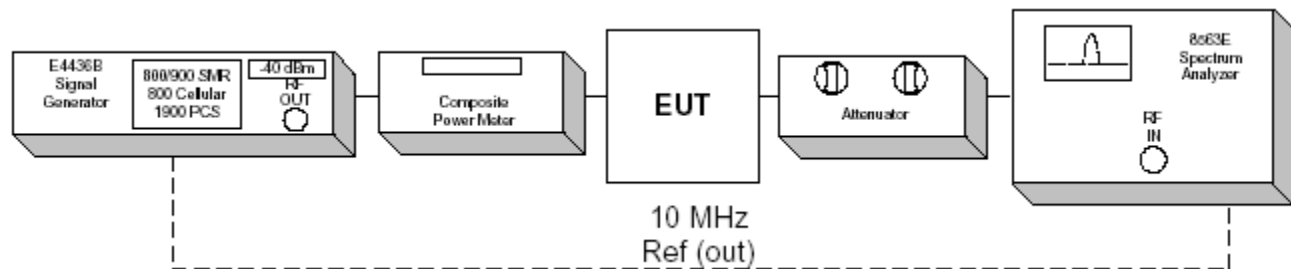
Notes:

1. Items shown in dotted lines are located on the floor below the test area. It is 5 meters vertically from the ground floor to the test area.
2. 50 Hz, 60 Hz, and 400 Hz are power panels for alternating current.
3. The antenna may be positioned horizontally 3, 10 or 30 meters from the center of the turntable.
4. The circle is a 6.7 meter diameter turntable.
5. A ground plane is in the plane of this sheet.
6. The test sample is shown in the azimuthal position representing zero degrees.

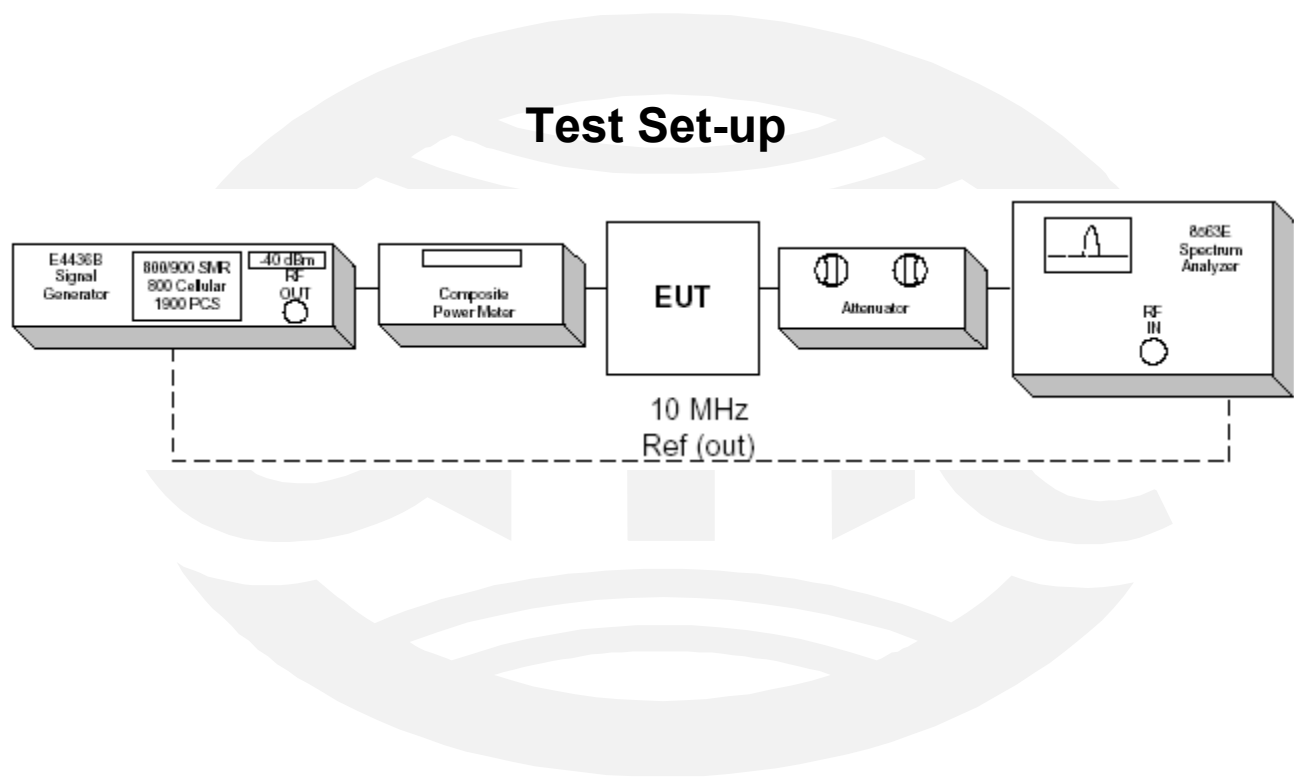


**Conducted Emission Limits Test for ADC Inc.
Digivance® Long Range Coverage Solution
Model Numbers DGVL-431XXSYS, DGVL-441XXSYS,
DGVL-451XXSYS, and DGVL-461XXSYS**

Test Set-up



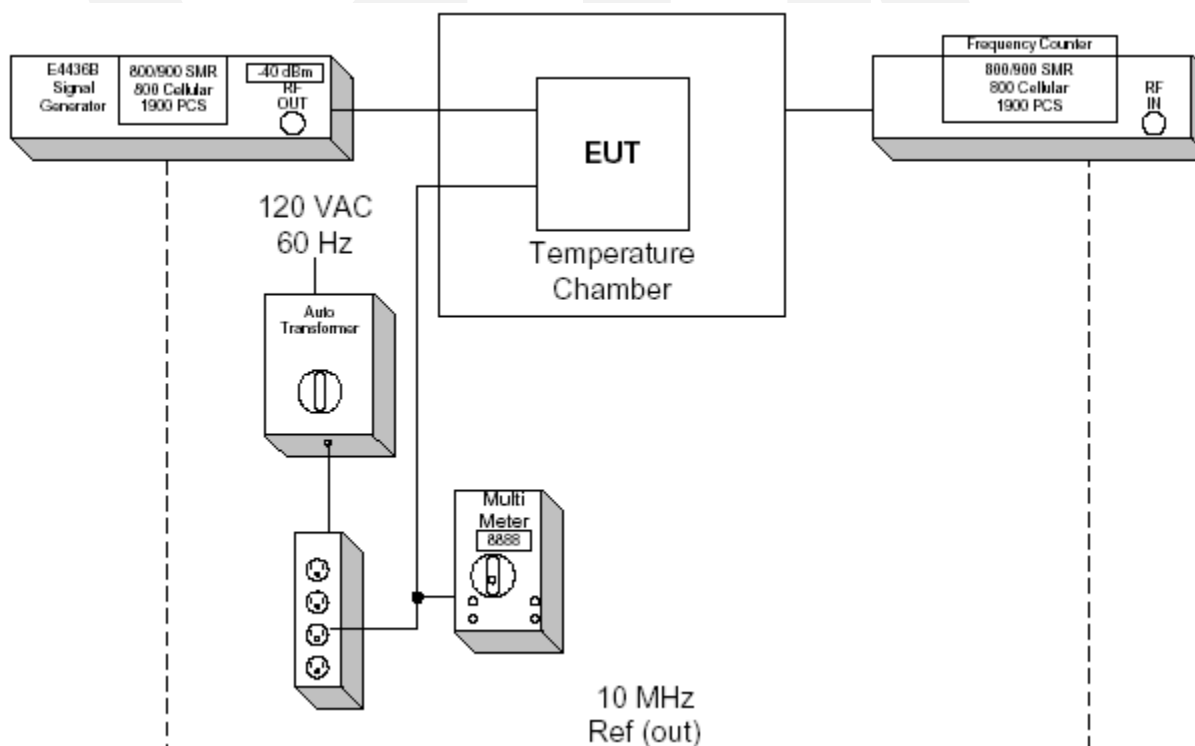
**Effective Radiated Power Limit Test for ADC Inc.
Digivance® Long Range Coverage Solution
Model Numbers DGVL-431XXSYS, DGVL-441XXSYS,
DGVL-451XXSYS, and DGVL-461XXSYS**



Frequency Tolerance Test for ADC Inc. **Digivance® Long Range Coverage Solution** **Model Numbers DGVL-431XXSYS, DGVL-441XXSYS,** **DGVL-451XXSYS, and DGVL-461XXSYS**

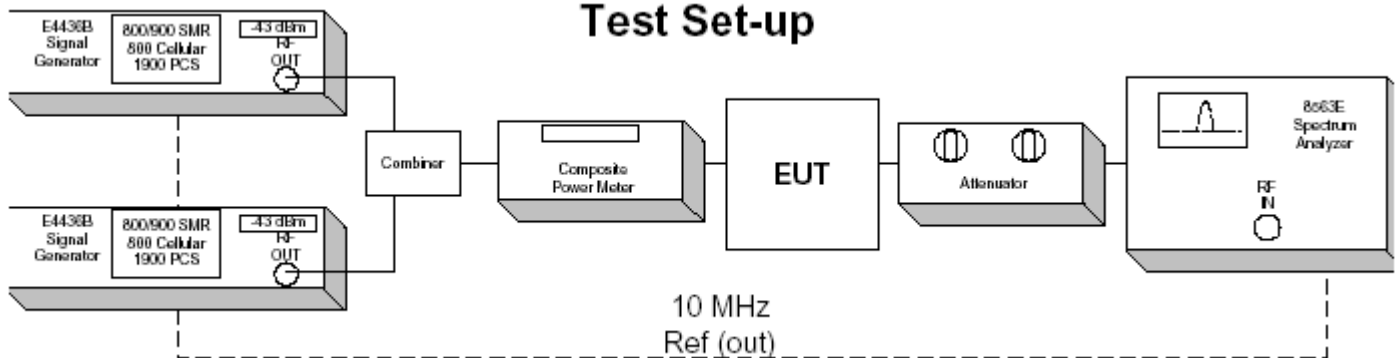
EUT Host is specified for indoor use only with temperature range of 0° to +50° C, and was tested with its range.
 EUT Remote is specified with a temperature range of -30° to +50° C and was tested with its range.

Test Set-up



Inter-Modulation Test for ADC Inc.
Digivance® Long Range Coverage Solution
Model Numbers DGVL-431XXSYS, DGVL-441XXSYS,
DGVL-451XXSYS, and DGVL-461XXSYS

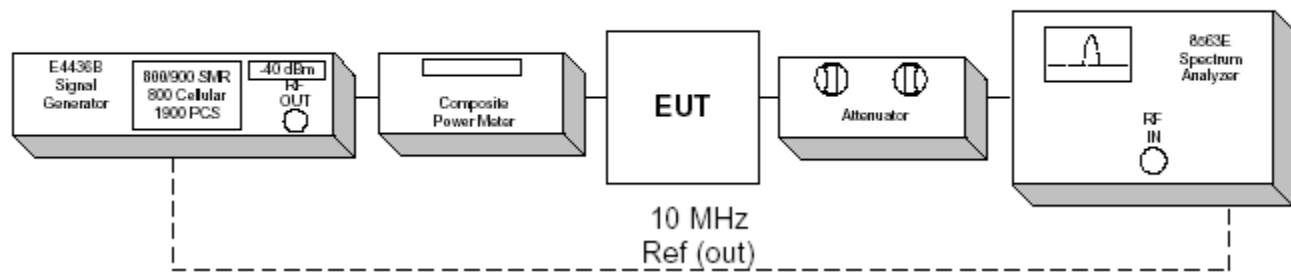
Test Set-up



**Occupied Bandwidth Modulation Test for ADC Inc.
Digivance® Long Range Coverage Solution
Model Numbers DGVL-431XXSYS, DGVL-441XXSYS,
DGVL-451XXSYS, and DGVL-461XXSYS**



Test Set-up



Test setup photo, radiated emissions



Test setup photo, radiated emissions



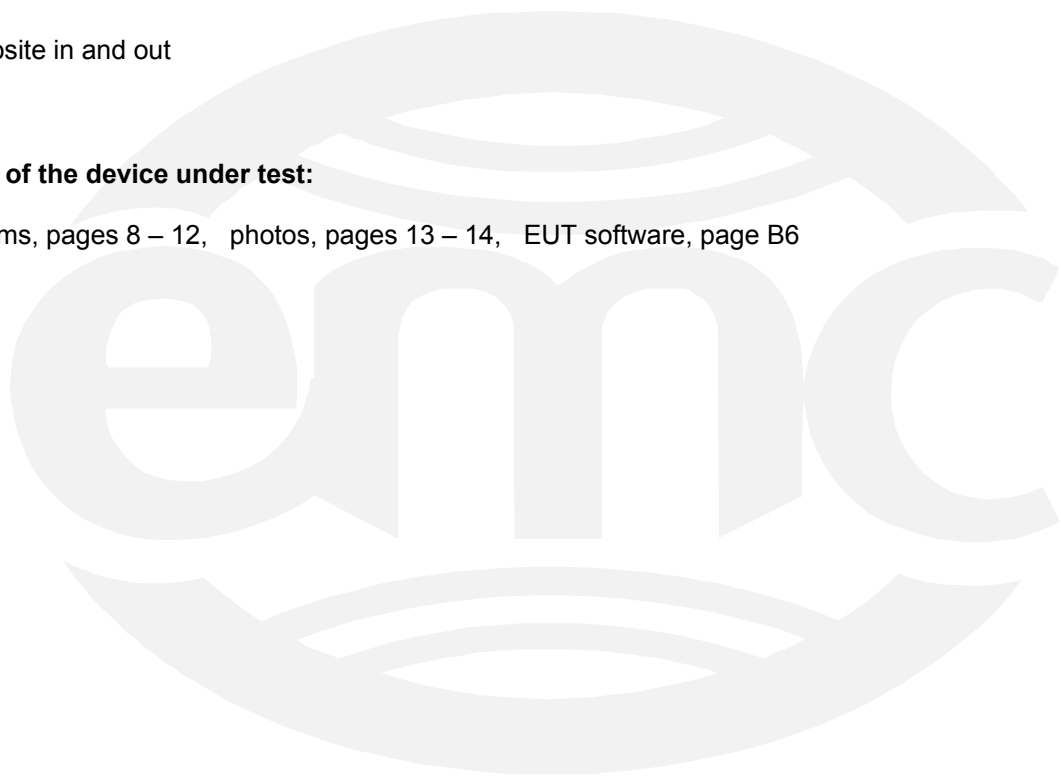
Test Operation Mode:

The device under test was operated under the following conditions during emissions testing:

- ☐ - Standby
- ☐ - Test program (H - Pattern)
- ☐ - Test program (color bar)
- ☐ - Test program (customer specific)
- ☐ - Practice operation
- ☒ - Max composite in and out

Configuration of the device under test:

- ☒ - See diagrams, pages 8 – 12, photos, pages 13 – 14, EUT software, page B6



DEVIATIONS FROM STANDARD:

None.

GENERAL REMARKS:

Modifications required to pass:

- ☒ None
- ☐ As indicated on the data sheet(s)

Test Specification Deviations: Additions to or Exclusions from:

- ☒ None
- ☐ As indicated in the Test Plan

SUMMARY:

The requirements according to the technical regulations are

- ☒ - met
- ☐ - **not** met.

The device under test does

- ☒ - fulfill the general approval requirements mentioned on page 3.
- ☐ - **not** fulfill the general approval requirements mentioned on page 3.

EUT Received Date: (TÜV)	<u>9, 10 November 2005</u>
Condition of EUT:	<u>Normal</u>
Testing Start Date: (ADC)	<u>30 September 2005</u>
Testing End Date: (TÜV)	<u>9, 10 November 2005</u>

- TÜV AMERICA INC -

Tested By:



Joe Sausen, Michael Schultz

Reviewed By:



Greg Jakubowski

Appendix A

Test data



Effective Isotropic Radiated Power Test for ADC Inc.

Digivance â Long Range Coverage Solution

Model Numbers DGVL-431XXSYS, DGVL-441XXSYS, DGVL-451XXSYS, and DGVL-461XXSYS

*Note: The EUT is a fixed repeater and not a base station.

This measurement was made as a direct conducted emission measurement. The output from the EUT antenna connector was connected to the power meter. The carrier output, below, was conducted using a single TDMA, GSM, and CDMA signal generator. The power meter level was offset to compensate for attenuators and cable loss between the EUT and the meter. The power meter head correction factors were calibrated and included for the measurements as well.

A signal was used at the low, mid and high parts of the selected band. The power meter level was offset by 31.5 dB to compensate for attenuators and cable loss between the EUT and the meter.

TDMA - 17.10 Watts

Band AD

Carrier Frequency	Carrier Output
1930.0 MHz	41.53 dBm
1940.0 MHz	41.60 dBm
1950.0 MHz	41.67 dBm

Band DBE

Carrier Frequency	Carrier Output
1945.0 MHz	41.57 dBm
1957.5 MHz	41.83 dBm
1970.0 MHz	41.57 dBm

Band BEF

Carrier Frequency	Carrier Output
1950.0 MHz	42.33 dBm
1962.5 MHz	41.97 dBm
1975.0 MHz	41.87 dBm

Band EFC

Carrier Frequency	Carrier Output
1965.0 MHz	41.33 dBm
1977.5 MHz	41.57 dBm
1990.0 MHz	41.27 dBm

GSM – 16.33 Watts

Band AD

Carrier Frequency	Carrier Output
1930.0 MHz	41.13 dBm
1940.0 MHz	41.27 dBm
1950.0 MHz	41.43 dBm

Band DBE

Carrier Frequency	Carrier Output
1945.0 MHz	41.10 dBm
1957.5 MHz	41.27 dBm
1970.0 MHz	41.27 dBm

Band BEF

Carrier Frequency	Carrier Output
1950.0 MHz	42.13 dBm
1962.5 MHz	42.13 dBm
1975.0 MHz	41.43 dBm

Band EFC

Carrier Frequency	Carrier Output
1965.0 MHz	41.10 dBm
1977.5 MHz	41.27 dBm
1990.0 MHz	41.27 dBm

CDMA - 16.60 Watts**Band AD**

Carrier Frequency	Carrier Output
1930.0 MHz	<u>41.16</u> dBm
1940.0 MHz	<u>41.83</u> dBm
1950.0 MHz	<u>41.66</u> dBm

Band DBE

Carrier Frequency	Carrier Output
1945.0 MHz	<u>40.80</u> dBm
1957.5 MHz	<u>41.40</u> dBm
1970.0 MHz	<u>41.46</u> dBm

Band BEF

Carrier Frequency	Carrier Output
1950.0 MHz	<u>42.06</u> dBm
1962.5 MHz	<u>42.20</u> dBm
1975.0 MHz	<u>41.80</u> dBm

Band EFC

Carrier Frequency	Carrier Output
1965.0 MHz	<u>41.10</u> dBm
1977.5 MHz	<u>41.46</u> dBm
1990.0 MHz	<u>41.40</u> dBm

Frequency Tolerance Test for ADC Inc
Digivance â Long Range Coverage Solution
Model Numbers DGVL-431XXSYS, DGVL-441XXSYS, DGVL-451XXSYS, and DGVL-461XXSYS

EUT Band A and D Selected

Input Voltage	Carrier Frequency	Measured Frequency	Meets requirement?
102 VAC	1930.000000 MHz	1930.000000 MHz	YES
120 VAC	1930.000000 MHz	1930.000000 MHz	YES
138 VAC	1930.000000 MHz	1930.000000 MHz	YES
102 VAC	1940.000000 MHz	1940.000000 MHz	YES
120 VAC	1940.000000 MHz	1940.000000 MHz	YES
138 VAC	1940.000000 MHz	1940.000000 MHz	YES
102 VAC	1950.000000 MHz	1950.000000 MHz	YES
120 VAC	1950.000000 MHz	1950.000000 MHz	YES
138 VAC	1950.000000 MHz	1950.000000 MHz	YES
Temperature	Carrier Frequency	Measured Frequency	Meets requirement?
-30 Deg C	1930.000000 MHz	1930.000000 MHz	YES
-20 Deg C	1930.000000 MHz	1930.000000 MHz	YES
-10 Deg C	1930.000000 MHz	1930.000000 MHz	YES
0 Deg. C	1930.000000 MHz	1930.000000 MHz	YES
10 Deg C	1930.000000 MHz	1930.000000 MHz	YES
20 Deg C	1930.000000 MHz	1930.000000 MHz	YES
30 Deg C	1930.000000 MHz	1930.000000 MHz	YES
40 Deg C	1930.000000 MHz	1930.000000 MHz	YES
50 Deg C	1930.000000 MHz	1930.000000 MHz	YES
-30 Deg C	1940.000000 MHz	1940.000000 MHz	YES
-20 Deg C	1940.000000 MHz	1940.000000 MHz	YES
-10 Deg C	1940.000000 MHz	1940.000000 MHz	YES
0 Deg. C	1940.000000 MHz	1940.000000 MHz	YES
10 Deg C	1940.000000 MHz	1940.000000 MHz	YES
20 Deg C	1940.000000 MHz	1940.000000 MHz	YES
30 Deg C	1940.000000 MHz	1940.000000 MHz	YES
40 Deg C	1940.000000 MHz	1940.000000 MHz	YES
50 Deg C	1940.000000 MHz	1940.000000 MHz	YES
-30 Deg C	1950.000000 MHz	1950.000000 MHz	YES
-20 Deg C	1950.000000 MHz	1950.000000 MHz	YES
-10 Deg C	1950.000000 MHz	1950.000000 MHz	YES
0 Deg. C	1950.000000 MHz	1950.000000 MHz	YES
10 Deg C	1950.000000 MHz	1950.000000 MHz	YES
20 Deg C	1950.000000 MHz	1950.000000 MHz	YES
30 Deg C	1950.000000 MHz	1950.000000 MHz	YES
40 Deg C	1950.000000 MHz	1950.000000 MHz	YES
50 Deg C	1950.000000 MHz	1950.000000 MHz	YES

EUT Band D, B, and E Selected

Input Voltage	Carrier Frequency	Measured Frequency	Meets requirement?
102 VAC	1945.000000 MHz	1945.000000 MHz	YES
120 VAC	1945.000000 MHz	1945.000000 MHz	YES
138 VAC	1945.000000 MHz	1945.000000 MHz	YES
102 VAC	1960.000000 MHz	1960.000000 MHz	YES
120 VAC	1960.000000 MHz	1960.000000 MHz	YES
138 VAC	1960.000000 MHz	1960.000000 MHz	YES
102 VAC	1970.000000 MHz	1970.000000 MHz	YES
120 VAC	1970.000000 MHz	1970.000000 MHz	YES
138 VAC	1970.000000 MHz	1970.000000 MHz	YES
Temperature	Carrier Frequency	Measured Frequency	Meets requirement?
-30 Deg C	1945.000000 MHz	1945.000000 MHz	YES
-20 Deg C	1945.000000 MHz	1945.000000 MHz	YES
-10 Deg C	1945.000000 MHz	1945.000000 MHz	YES
0 Deg. C	1945.000000 MHz	1945.000000 MHz	YES
10 Deg C	1945.000000 MHz	1945.000000 MHz	YES
20 Deg C	1945.000000 MHz	1945.000000 MHz	YES
30 Deg C	1945.000000 MHz	1945.000000 MHz	YES
40 Deg C	1945.000000 MHz	1945.000000 MHz	YES
50 Deg C	1945.000000 MHz	1945.000000 MHz	YES
-30 Deg C	1960.000000 MHz	1960.000000 MHz	YES
-20 Deg C	1960.000000 MHz	1960.000000 MHz	YES
-10 Deg C	1960.000000 MHz	1960.000000 MHz	YES
0 Deg. C	1960.000000 MHz	1960.000000 MHz	YES
10 Deg C	1960.000000 MHz	1960.000000 MHz	YES
20 Deg C	1960.000000 MHz	1960.000000 MHz	YES
30 Deg C	1960.000000 MHz	1960.000000 MHz	YES
40 Deg C	1960.000000 MHz	1960.000000 MHz	YES
50 Deg C	1960.000000 MHz	1960.000000 MHz	YES
-30 Deg C	1970.000000 MHz	1970.000000 MHz	YES
-20 Deg C	1970.000000 MHz	1970.000000 MHz	YES
-10 Deg C	1970.000000 MHz	1970.000000 MHz	YES
0 Deg. C	1970.000000 MHz	1970.000000 MHz	YES
10 Deg C	1970.000000 MHz	1970.000000 MHz	YES
20 Deg C	1970.000000 MHz	1970.000000 MHz	YES
30 Deg C	1970.000000 MHz	1970.000000 MHz	YES
40 Deg C	1970.000000 MHz	1970.000000 MHz	YES
50 Deg C	1970.000000 MHz	1970.000000 MHz	YES

EUT Band B, E, and F Selected

Input Voltage	Carrier Frequency	Measured Frequency	Meets requirement?
102 VAC	1950.000000 MHz	1950.000000 MHz	YES
120 VAC	1950.000000 MHz	1950.000000 MHz	YES
138 VAC	1950.000000 MHz	1950.000000 MHz	YES
102 VAC	1965.000000 MHz	1965.000000 MHz	YES
120 VAC	1965.000000 MHz	1965.000000 MHz	YES
138 VAC	1965.000000 MHz	1965.000000 MHz	YES
102 VAC	1975.000000 MHz	1975.000000 MHz	YES
120 VAC	1975.000000 MHz	1975.000000 MHz	YES
138 VAC	1975.000000 MHz	1975.000000 MHz	YES
Temperature	Carrier Frequency	Measured Frequency	Meets requirement?
-30 Deg C	1950.000000 MHz	1950.000000 MHz	YES
-20 Deg C	1950.000000 MHz	1950.000000 MHz	YES
-10 Deg C	1950.000000 MHz	1950.000000 MHz	YES
0 Deg. C	1950.000000 MHz	1950.000000 MHz	YES
10 Deg C	1950.000000 MHz	1950.000000 MHz	YES
20 Deg C	1950.000000 MHz	1950.000000 MHz	YES
30 Deg C	1950.000000 MHz	1950.000000 MHz	YES
40 Deg C	1950.000000 MHz	1950.000000 MHz	YES
50 Deg C	1950.000000 MHz	1950.000000 MHz	YES
-30 Deg C	1965.000000 MHz	1965.000000 MHz	YES
-20 Deg C	1965.000000 MHz	1965.000000 MHz	YES
-10 Deg C	1965.000000 MHz	1965.000000 MHz	YES
0 Deg. C	1965.000000 MHz	1965.000000 MHz	YES
10 Deg C	1965.000000 MHz	1965.000000 MHz	YES
20 Deg C	1965.000000 MHz	1965.000000 MHz	YES
30 Deg C	1965.000000 MHz	1965.000000 MHz	YES
40 Deg C	1965.000000 MHz	1965.000000 MHz	YES
50 Deg C	1965.000000 MHz	1965.000000 MHz	YES
-30 Deg C	1975.000000 MHz	1975.000000 MHz	YES
-20 Deg C	1975.000000 MHz	1975.000000 MHz	YES
-10 Deg C	1975.000000 MHz	1975.000000 MHz	YES
0 Deg. C	1975.000000 MHz	1975.000000 MHz	YES
10 Deg C	1975.000000 MHz	1975.000000 MHz	YES
20 Deg C	1975.000000 MHz	1975.000000 MHz	YES
30 Deg C	1975.000000 MHz	1975.000000 MHz	YES
40 Deg C	1975.000000 MHz	1975.000000 MHz	YES
50 Deg C	1975.000000 MHz	1975.000000 MHz	YES

EUT Band E, F, and C Selected

Input Voltage	Carrier Frequency	Measured Frequency	Meets requirement?
102 VAC	1965.000000 MHz	1965.000000 MHz	YES
120 VAC	1965.000000 MHz	1965.000000 MHz	YES
138 VAC	1965.000000 MHz	1965.000000 MHz	YES
102 VAC	1980.000000 MHz	1980.000000 MHz	YES
120 VAC	1980.000000 MHz	1980.000000 MHz	YES
138 VAC	1980.000000 MHz	1980.000000 MHz	YES
102 VAC	1990.000000 MHz	1990.000000 MHz	YES
120 VAC	1990.000000 MHz	1990.000000 MHz	YES
138 VAC	1990.000000 MHz	1990.000000 MHz	YES
Temperature	Carrier Frequency	Measured Frequency	Meets requirement?
-30 Deg C	1965.000000 MHz	1965.000000 MHz	YES
-20 Deg C	1965.000000 MHz	1965.000000 MHz	YES
-10 Deg C	1965.000000 MHz	1965.000000 MHz	YES
0 Deg. C	1965.000000 MHz	1965.000000 MHz	YES
10 Deg C	1965.000000 MHz	1965.000000 MHz	YES
20 Deg C	1965.000000 MHz	1965.000000 MHz	YES
30 Deg C	1965.000000 MHz	1965.000000 MHz	YES
40 Deg C	1965.000000 MHz	1965.000000 MHz	YES
50 Deg C	1965.000000 MHz	1965.000000 MHz	YES
-30 Deg C	1980.000000 MHz	1980.000000 MHz	YES
-20 Deg C	1980.000000 MHz	1980.000000 MHz	YES
-10 Deg C	1980.000000 MHz	1980.000000 MHz	YES
0 Deg. C	1980.000000 MHz	1980.000000 MHz	YES
10 Deg C	1980.000000 MHz	1980.000000 MHz	YES
20 Deg C	1980.000000 MHz	1980.000000 MHz	YES
30 Deg C	1980.000000 MHz	1980.000000 MHz	YES
40 Deg C	1980.000000 MHz	1980.000000 MHz	YES
50 Deg C	1980.000000 MHz	1980.000000 MHz	YES
-30 Deg C	1990.000000 MHz	1990.000000 MHz	YES
-20 Deg C	1990.000000 MHz	1990.000000 MHz	YES
-10 Deg C	1990.000000 MHz	1990.000000 MHz	YES
0 Deg. C	1990.000000 MHz	1990.000000 MHz	YES
10 Deg C	1990.000000 MHz	1990.000000 MHz	YES
20 Deg C	1990.000000 MHz	1990.000000 MHz	YES
30 Deg C	1990.000000 MHz	1990.000000 MHz	YES
40 Deg C	1990.000000 MHz	1990.000000 MHz	YES
50 Deg C	1990.000000 MHz	1990.000000 MHz	YES

Note: EUT Host is specified for indoor use only with temperature range of 0 to +50° C and was tested within its range.

Note: EUT STM and LPA are specified with a temperature range of -30 to +50° C and were tested with their range.

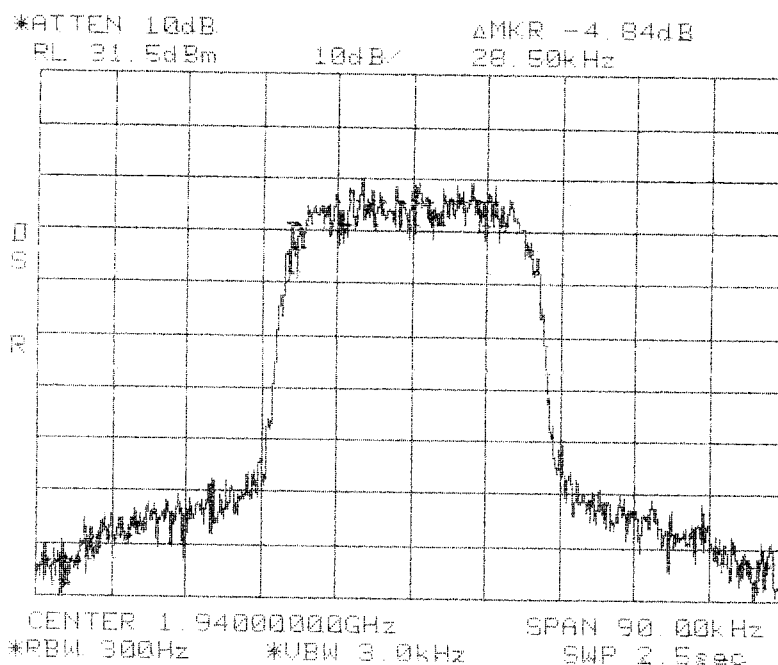
Occupied Bandwidth Modulation Test for ADC Inc.
Digivance â Long Range Coverage Solution
Model Numbers DGVL-431XXSYS, DGVL-441XXSYS,
DGVL-451XXSYS, and DGVL-461XXSYS

An input/output Occupied Bandwidth test was done with modulation types: TDMA, GSM, and CDMA. The purpose was to determine the amount of distortion added to different types of modulation schemes by the EUT. The following plots show input signals vs. output signals.

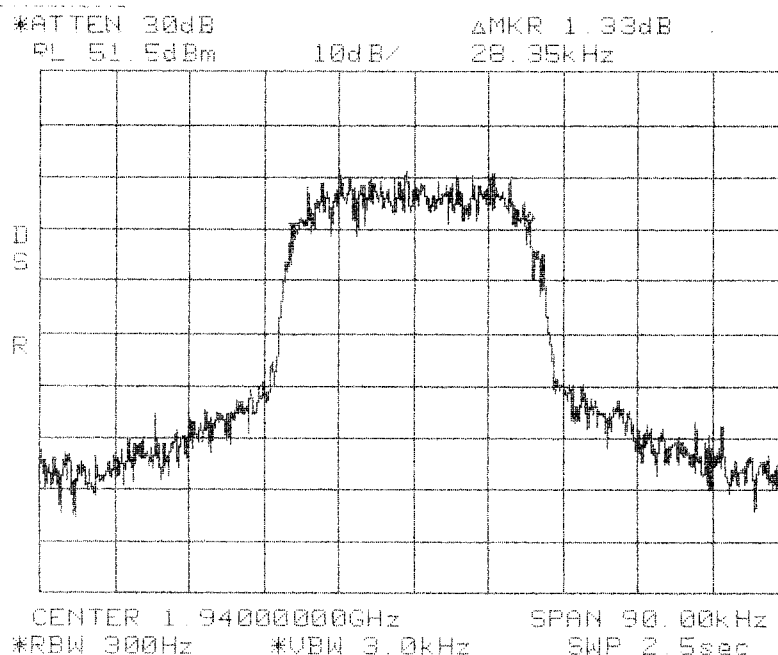
Results:

Pass (see plots)

Center: 1940.0 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz



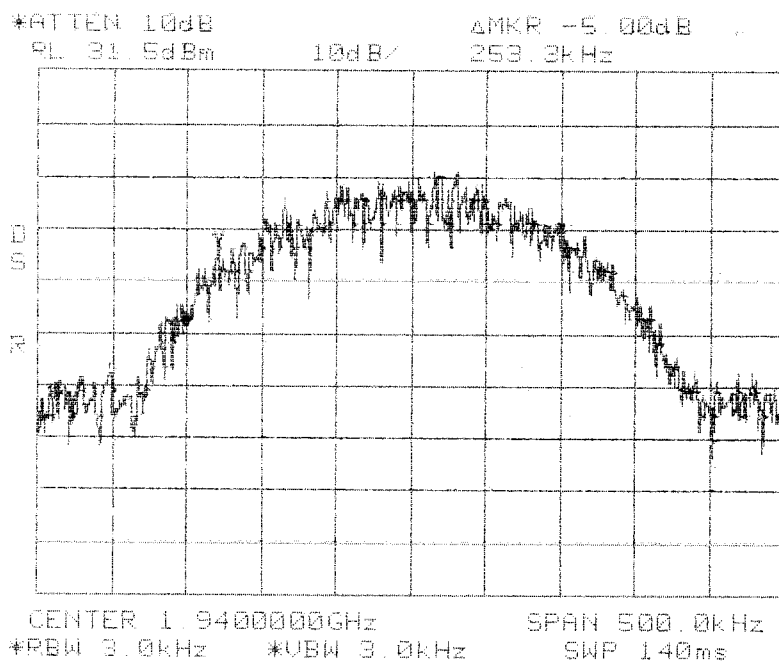
**Occupied Bandwidth
TDMA In
PCS 1900 MHz
AD Band**



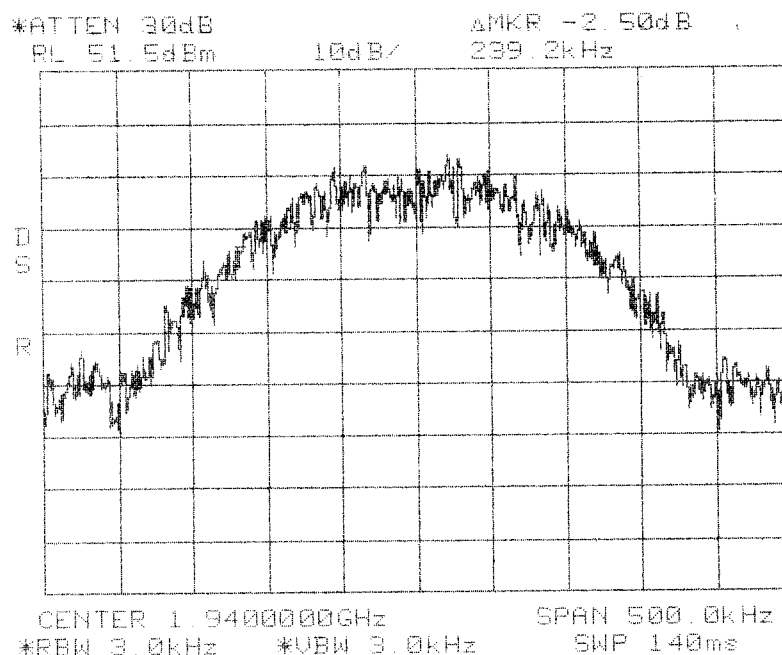
**Occupied Bandwidth
TDMA Out
PCS 1900 MHz
AD Band**

Center: 1940.0 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz

Center: 1940.0 MHz
Span: 500 kHz
RBW/VBW: 3 kHz / 3 kHz



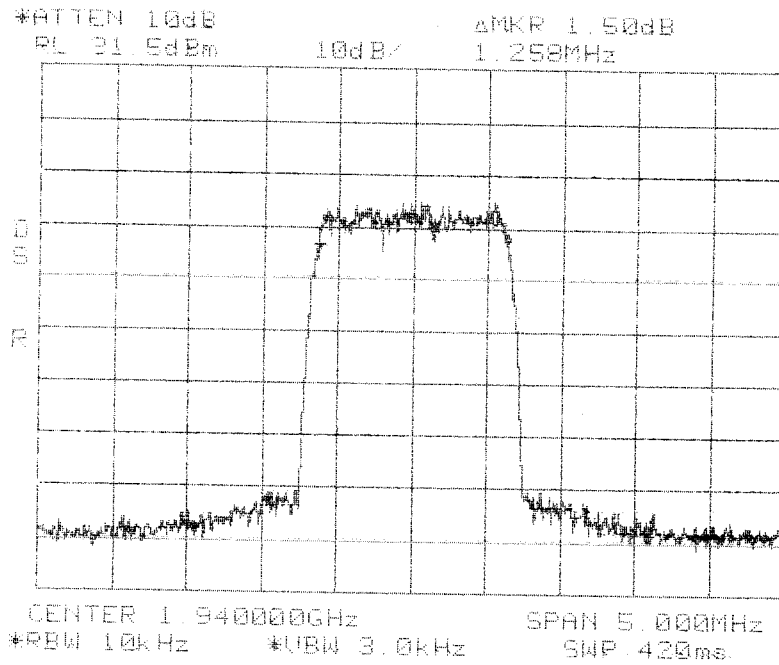
**Occupied Bandwidth
GSM In
PCS 1900 MHz
AD Band**



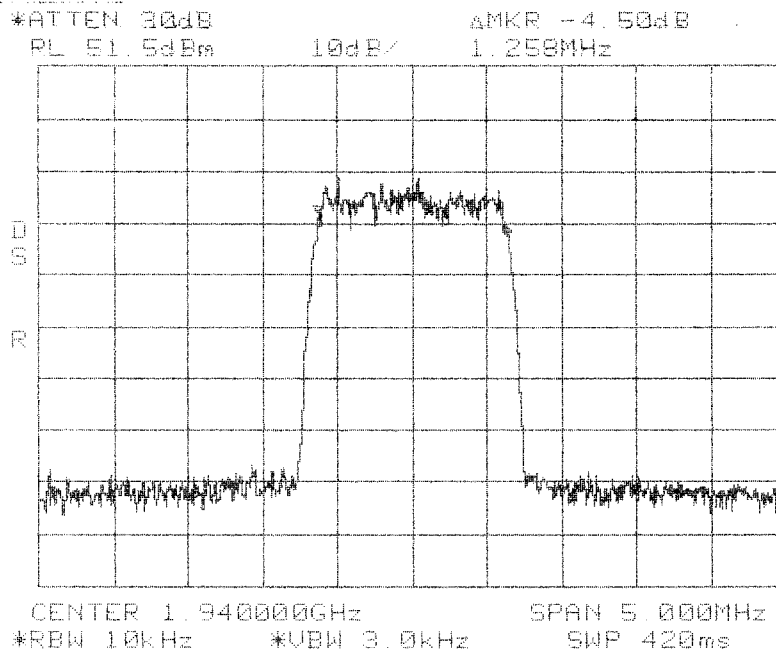
**Occupied Bandwidth
GSM Out
PCS 1900 MHz
AD Band**

Center: 1940.0 MHz
Span: 500 kHz
RBW/VBW: 3 kHz / 3 kHz

Center: 1940.0 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz



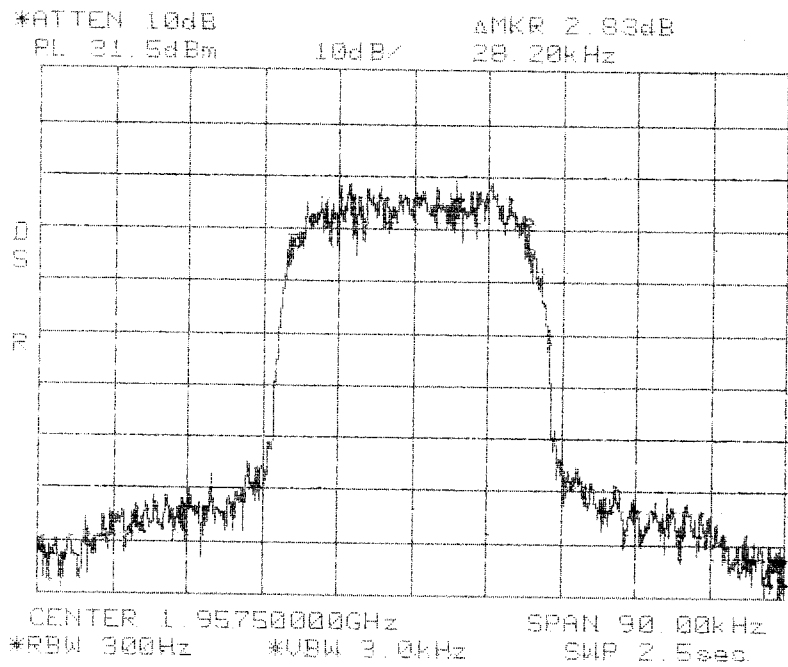
**Occupied Bandwidth
CDMA In
PCS 1900 MHz
AD Band**



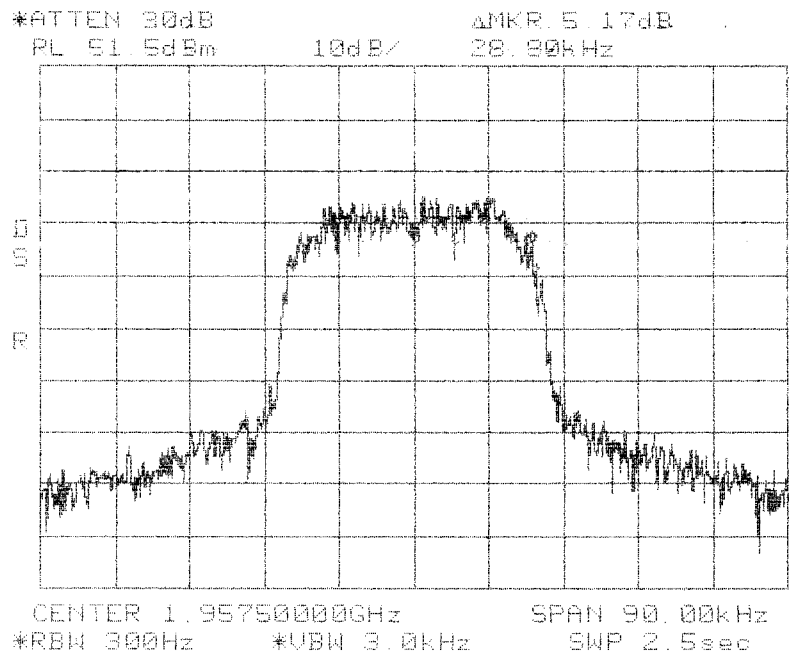
**Occupied Bandwidth
CDMA Out
PCS 1900 MHz
AD Band**

Center: 1940.0 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1957.5 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz



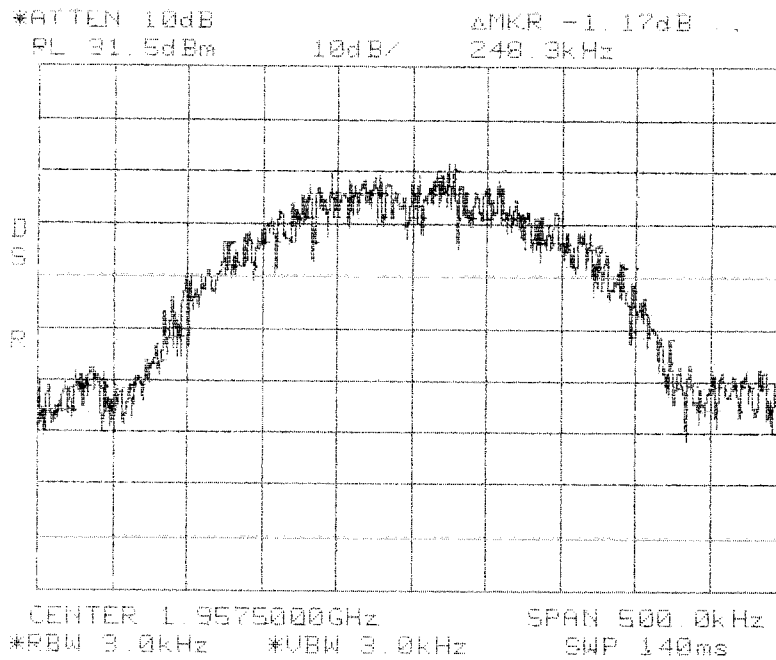
**Occupied Bandwidth
TDMA In
PCS 1900 MHz
DBE Band**



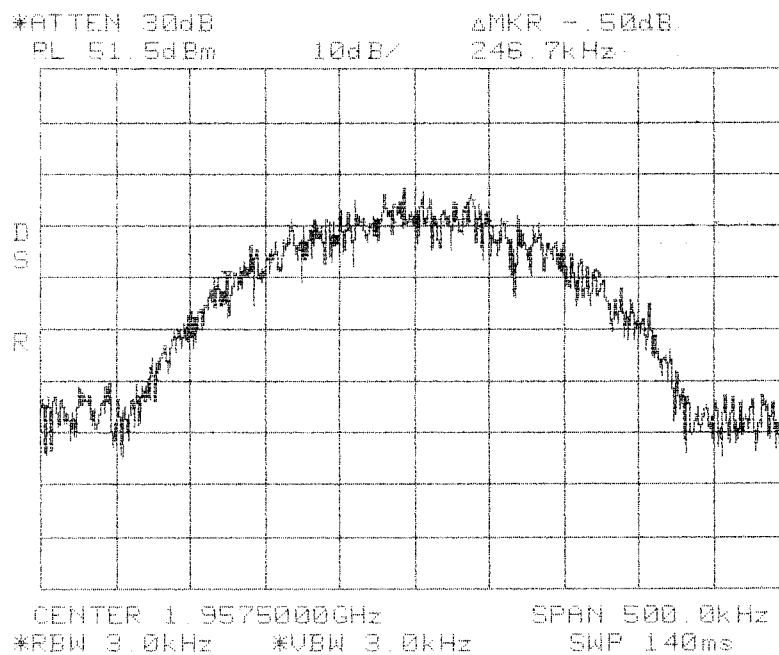
**Occupied Bandwidth
TDMA Out
PCS 1900 MHz
DBE Band**

Center: 1957.5 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz

Center: 1957.5 MHz
Span: 500 kHz
RBW/VBW: 3 kHz / 3 kHz



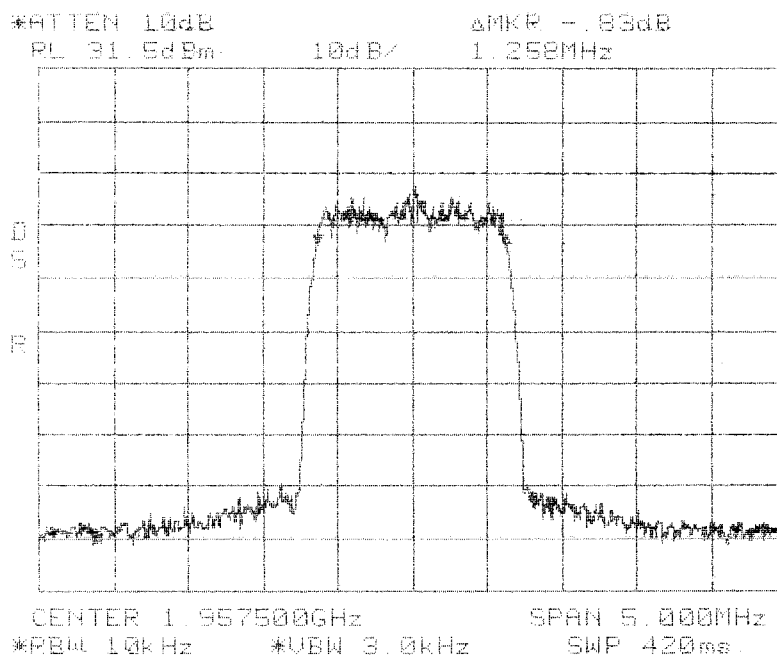
**Occupied Bandwidth
GSM In
PCS 1900 MHz
DBE Band**



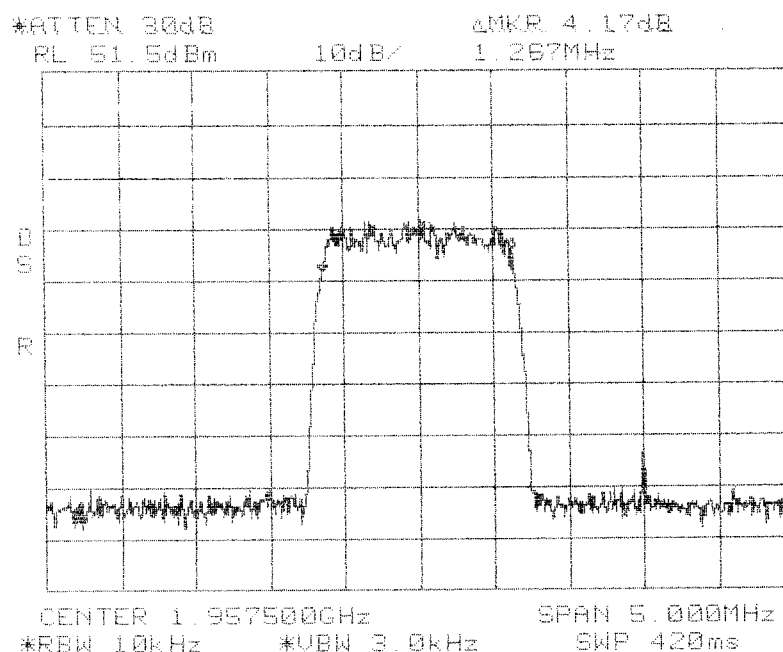
**Occupied Bandwidth
GSM Out
PCS 1900 MHz
DBE Band**

Center: 1957.5 MHz
Span: 500 kHz
RBW/VBW: 3 kHz / 3 kHz

Center: 1957.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz



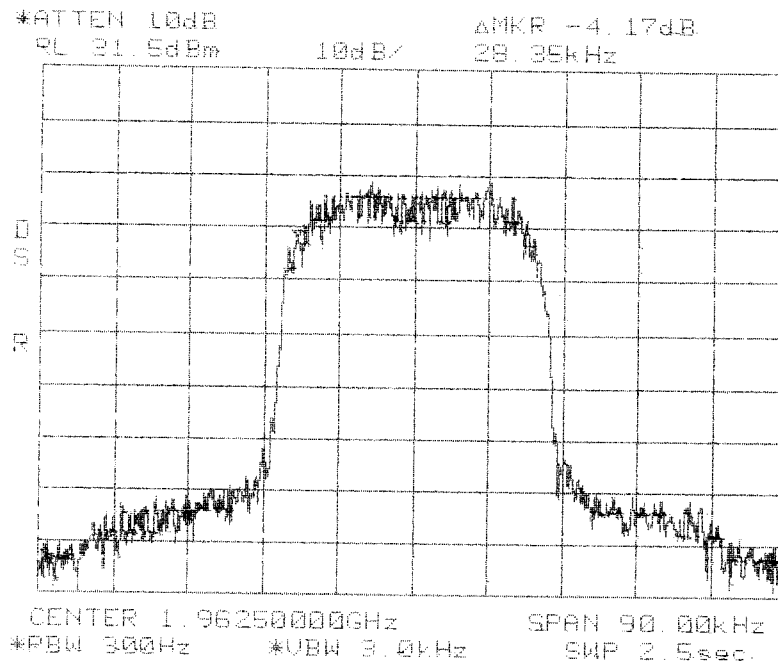
**Occupied Bandwidth
CDMA In
PCS 1900 MHz
DBE Band**



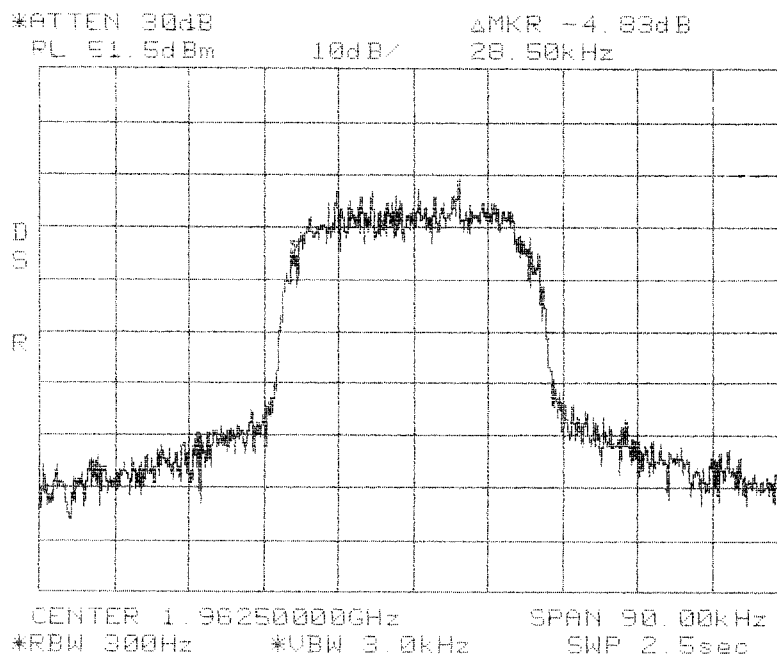
**Occupied Bandwidth
CDMA Out
PCS 1900 MHz
DBE Band**

Center: 1957.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1962.5 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz



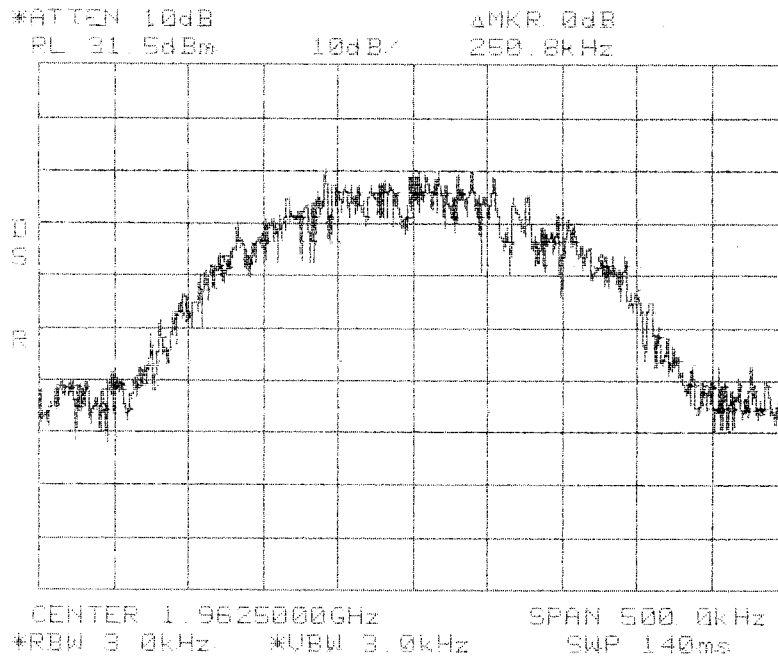
**Occupied Bandwidth
TDMA In
PCS 1900 MHz
BEF Band**



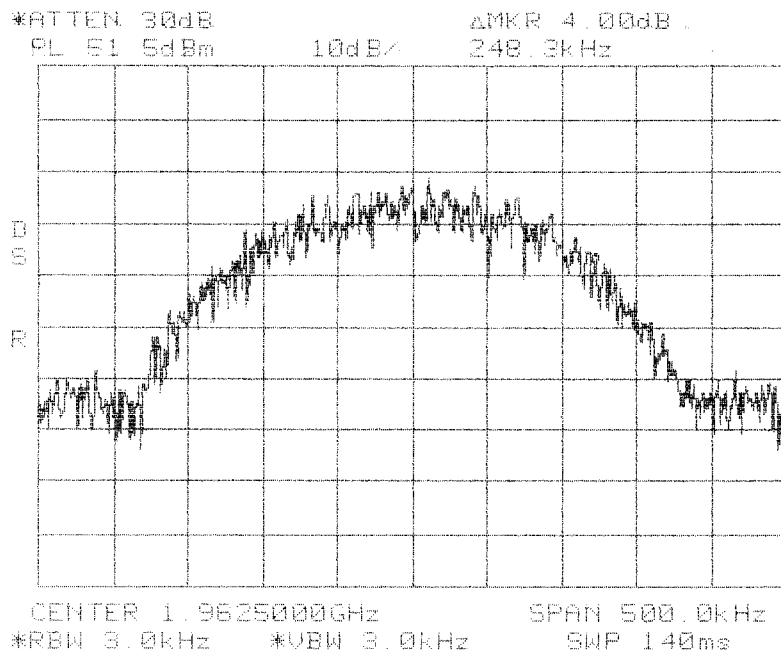
**Occupied Bandwidth
TDMA Out
PCS 1900 MHz
BEF Band**

Center: 1962.5 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz

Center: 1962.5 MHz
Span: 500 kHz
RBW/VBW: 3 kHz / 3 kHz



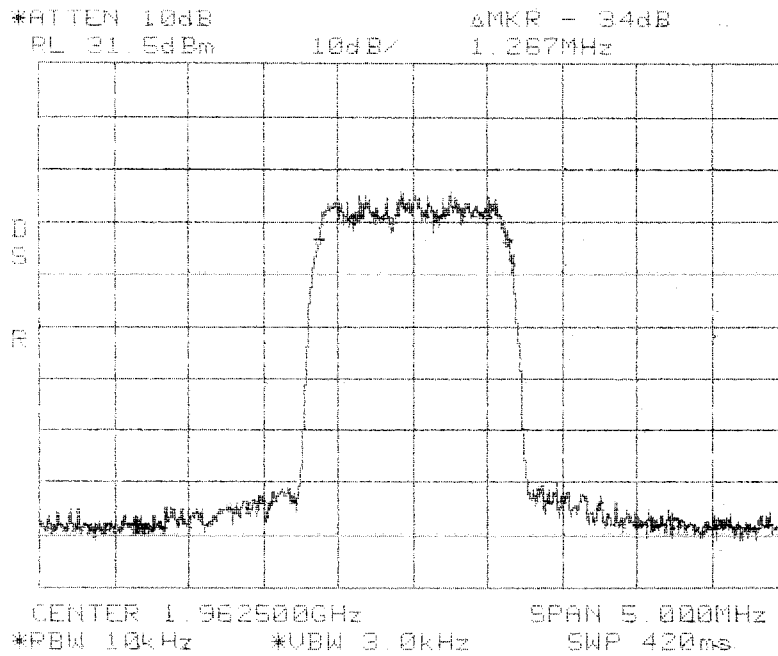
**Occupied Bandwidth
GSM In
PCS 1900 MHz
BEF Band**



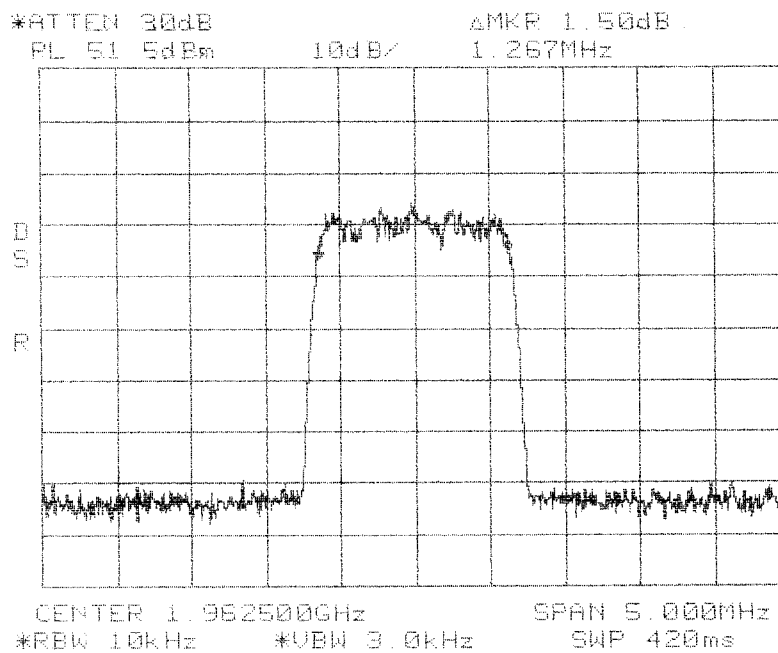
**Occupied Bandwidth
GSM Out
PCS 1900 MHz
BEF Band**

Center: 1962.5 MHz
Span: 500 kHz
RBW/VBW: 3 kHz / 3 kHz

Center: 1962.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz



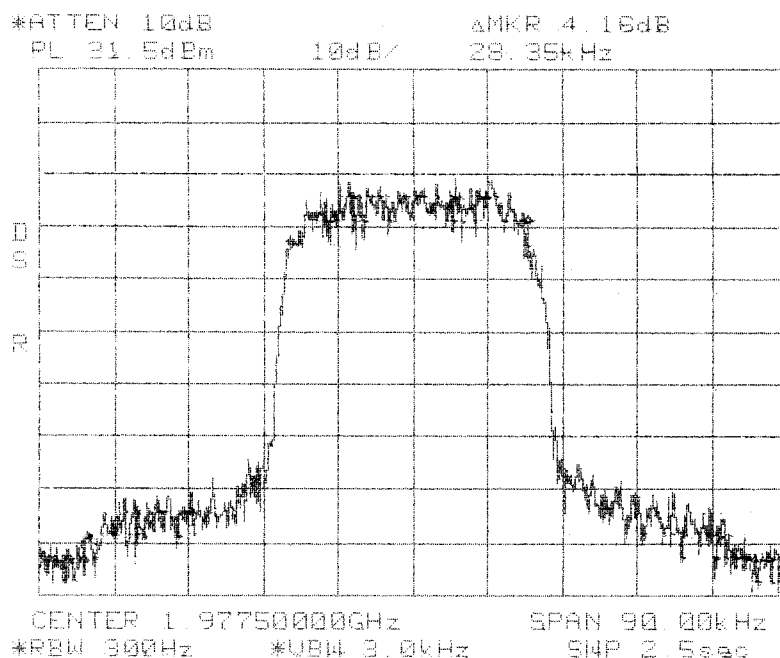
**Occupied Bandwidth
CDMA In
PCS 1900 MHz
BEF Band**



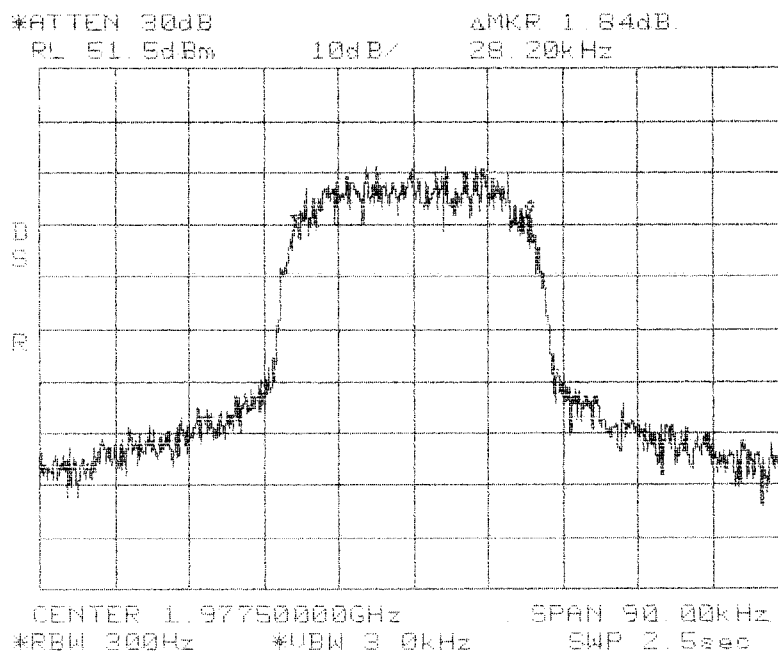
**Occupied Bandwidth
CDMA Out
PCS 1900 MHz
BEF Band**

Center: 1962.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1977.5 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz



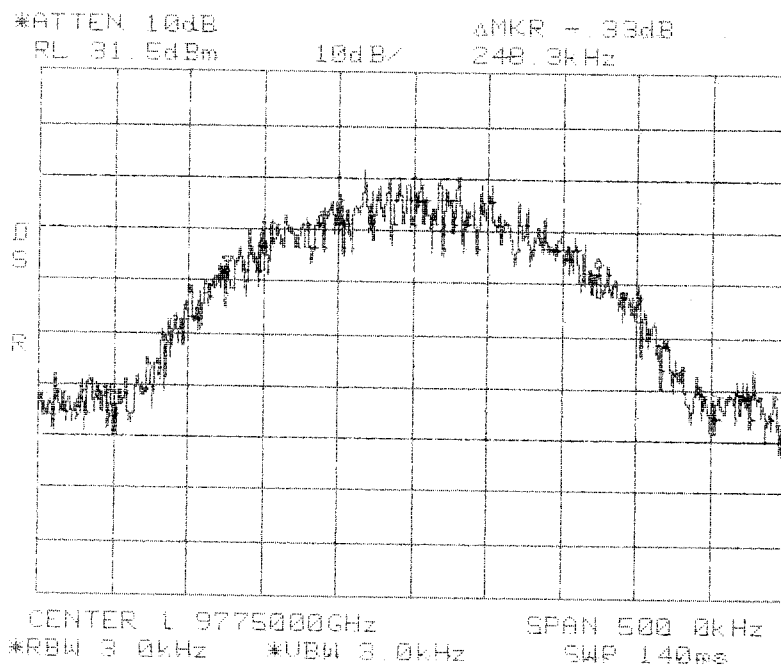
**Occupied Bandwidth
TDMA In
PCS 1900 MHz
EFC Band**



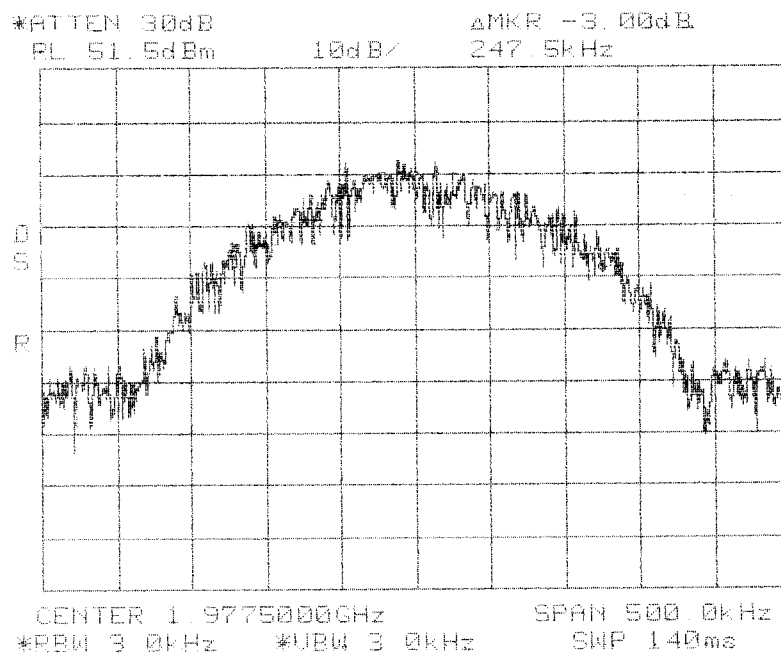
**Occupied Bandwidth
TDMA Out
PCS 1900 MHz
EFC Band**

Center: 1977.5 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz

Center: 1977.5 MHz
Span: 500 kHz
RBW/VBW: 3 kHz / 3 kHz



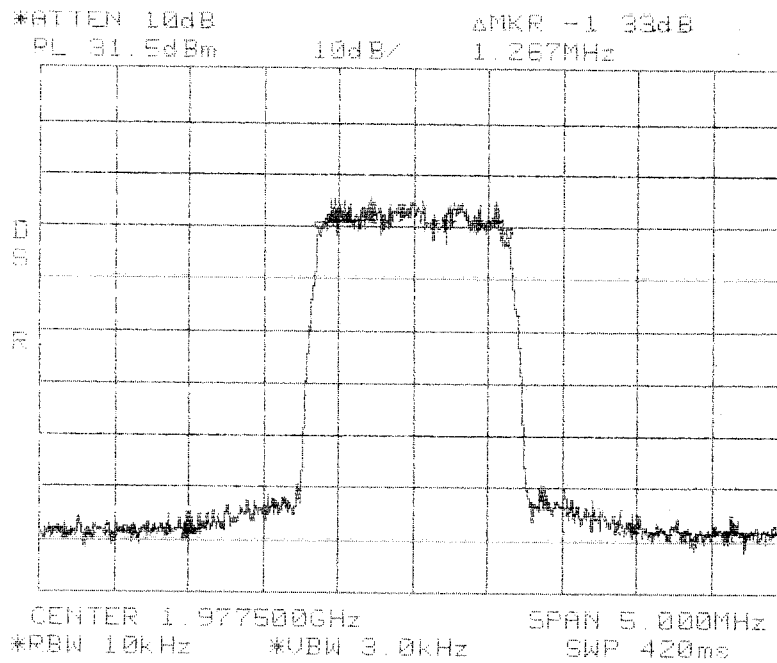
**Occupied Bandwidth
GSM In
PCS 1900 MHz
EFC Band**



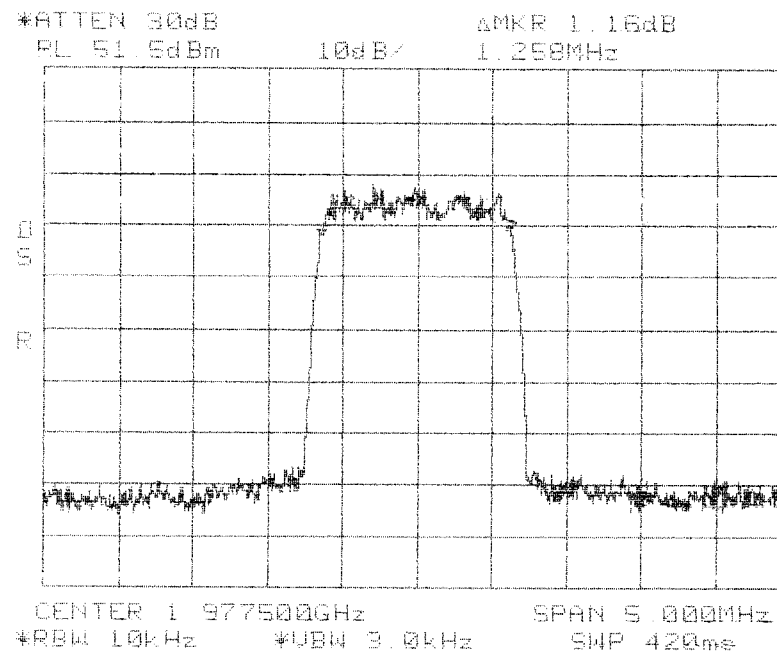
**Occupied Bandwidth
GSM Out
PCS 1900 MHz
EFC Band**

Center: 1977.5 MHz
Span: 500 kHz
RBW/VBW: 3 kHz / 3 kHz

Center: 1977.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz



**Occupied Bandwidth
CDMA In
PCS 1900 MHz
EFC Band**



**Occupied Bandwidth
CDMA Out
PCS 1900 MHz
EFC Band**

Center: 1977.5 MHz
Span: 5 MHz
RBW/VBW: 10 kHz / 3 kHz

Conducted Emission Limits Test for ADC Inc.
Digivance â Long Range Coverage Solution
Model Numbers DGVL-431XXSYS, DGVL-441XXSYS, DGVL-
451XXSYS, and DGVL-461XXSYS

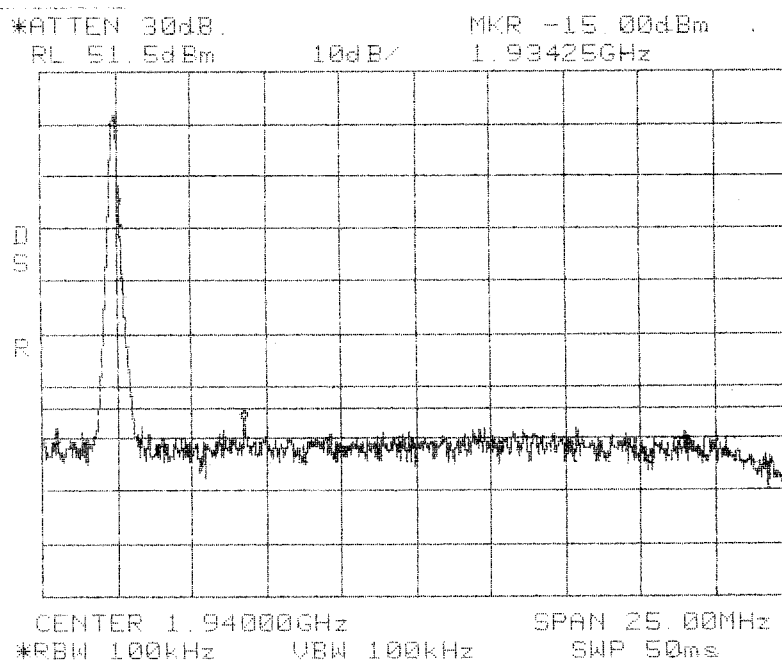
The out of band emissions were measured directly from the EUT antenna output with a spectrum analyzer from 30 MHz to the 10th harmonic of the highest carrier frequency. Test signals used are TDMA, GSM, and CDMA. The different signals were input one at a time to the EUT. In all cases, the out of band emissions were less than -13dBm from the equation
$$(19\text{dBm} - [43 + 10\log(0.08W)])$$

Band edge compliance is also demonstrated using each signal at the upper and lower limits of the band and a resolution bandwidth of 300 Hz.

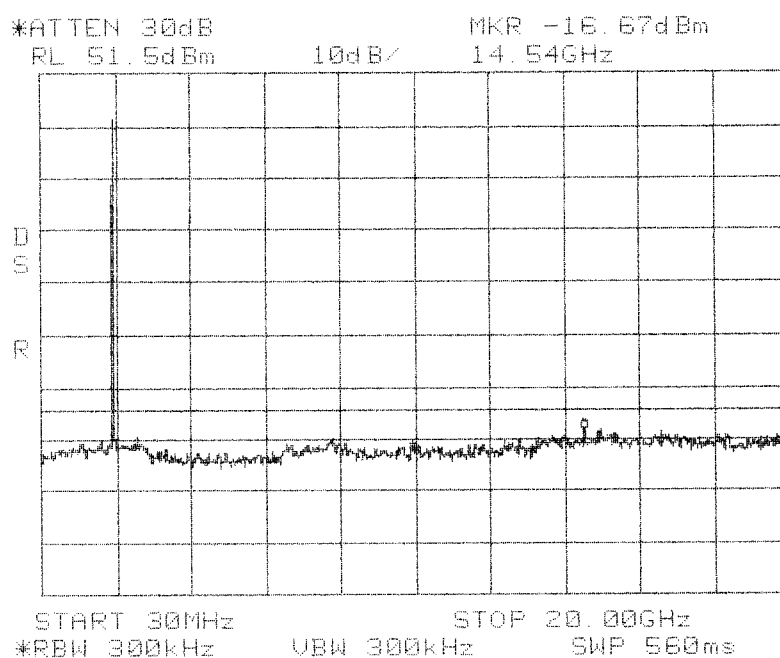
Results:

Pass (See plots)

Center: 1940.0 MHz
Span: 25 MHz
RBW/VBW: 100 kHz



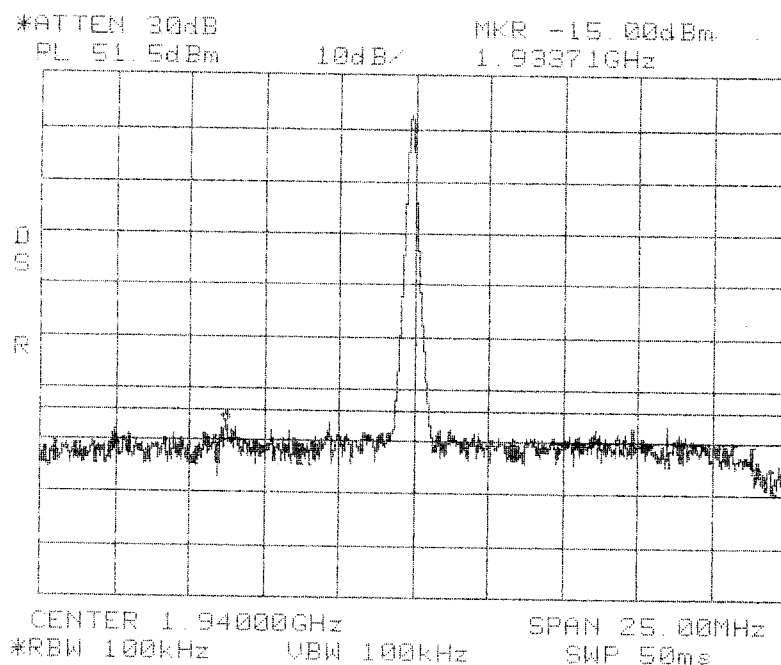
Conducted Emissions
Low
PCS 1900 MHz
AD Band



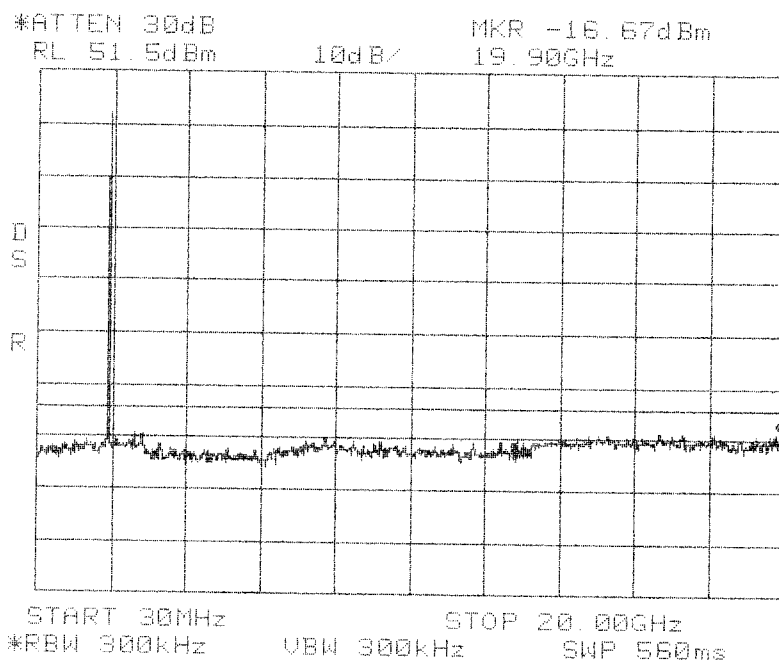
Conducted Emissions
Low
PCS 1900 MHz
AD Band

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1940.0 MHz
Span: 25 MHz
RBW/VBW: 100 kHz



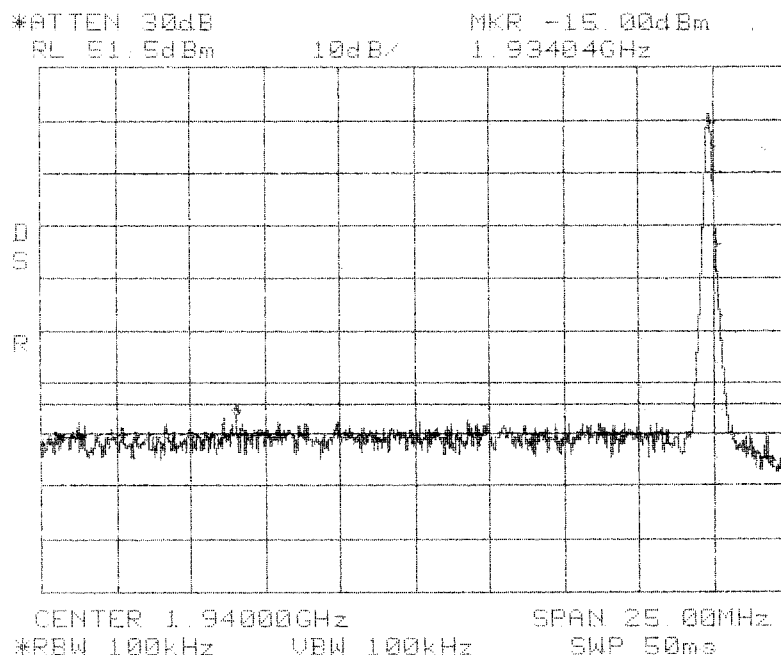
**Conducted Emissions
Mid
PCS 1900 MHz
AD Band**



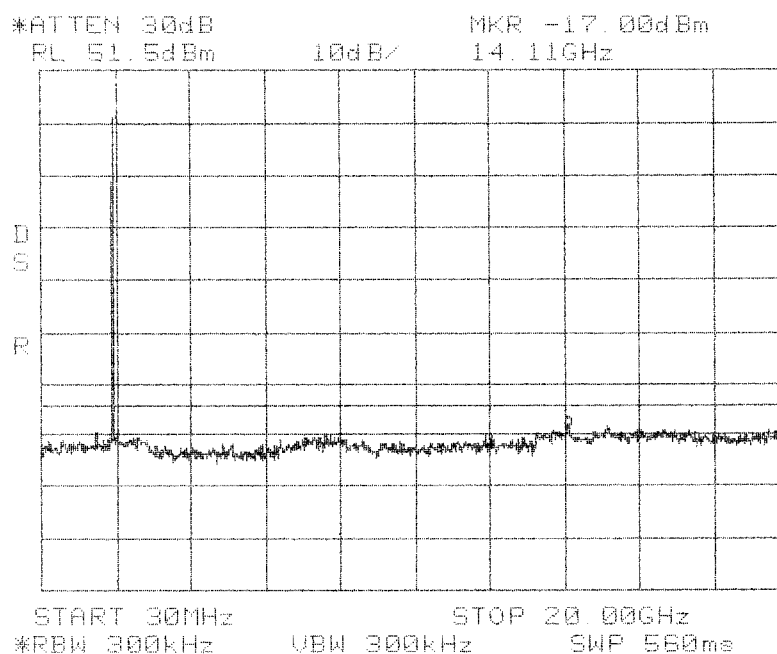
**Conducted Emissions
Mid
PCS 1900 MHz
AD Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1940.0 MHz
Span: 25 MHz
RBW/VBW: 100 kHz



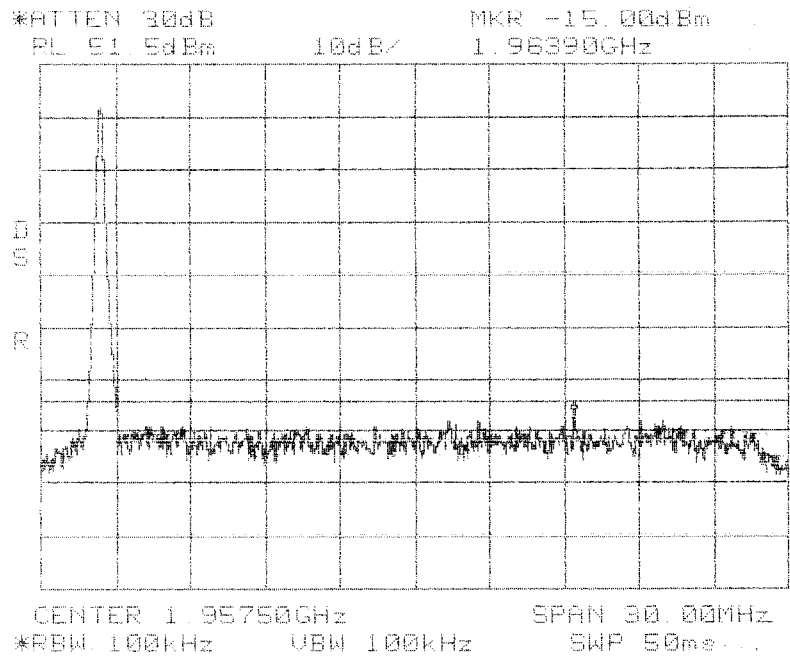
**Conducted Emissions
High
PCS 1900 MHz
AD Band**



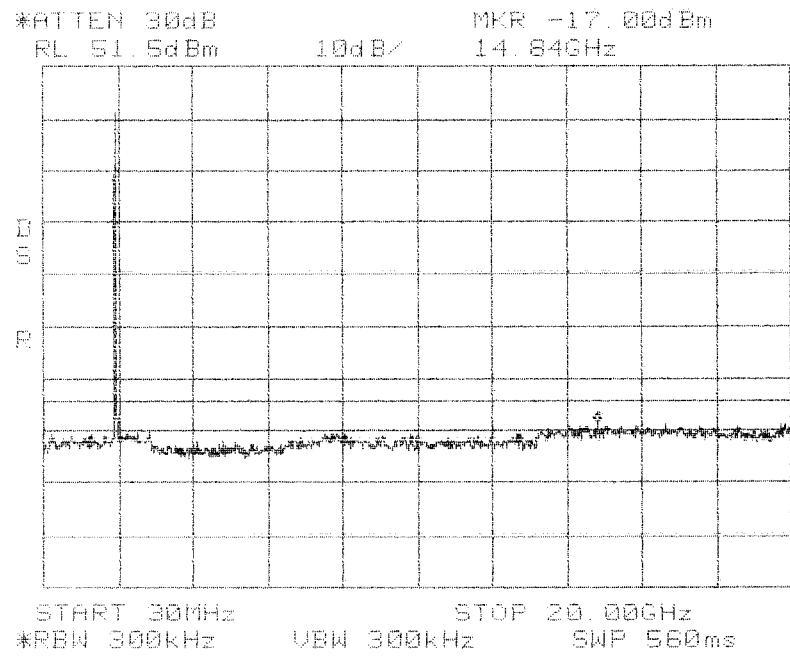
**Conducted Emissions
High
PCS 1900 MHz
AD Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1957.5 MHz
Span: 30 MHz
RBW/VBW: 100 kHz



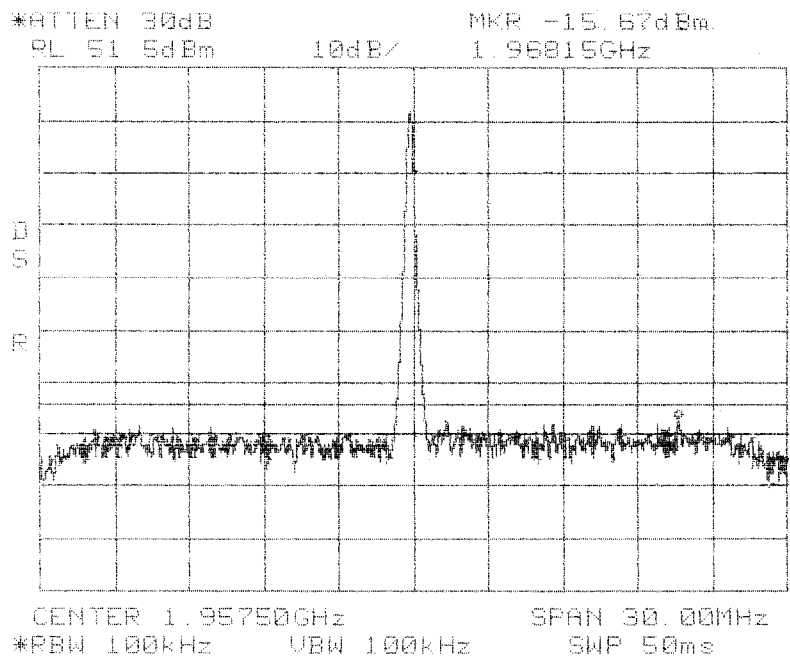
Conducted Emissions
Low
PCS 1900 MHz
DBE Band



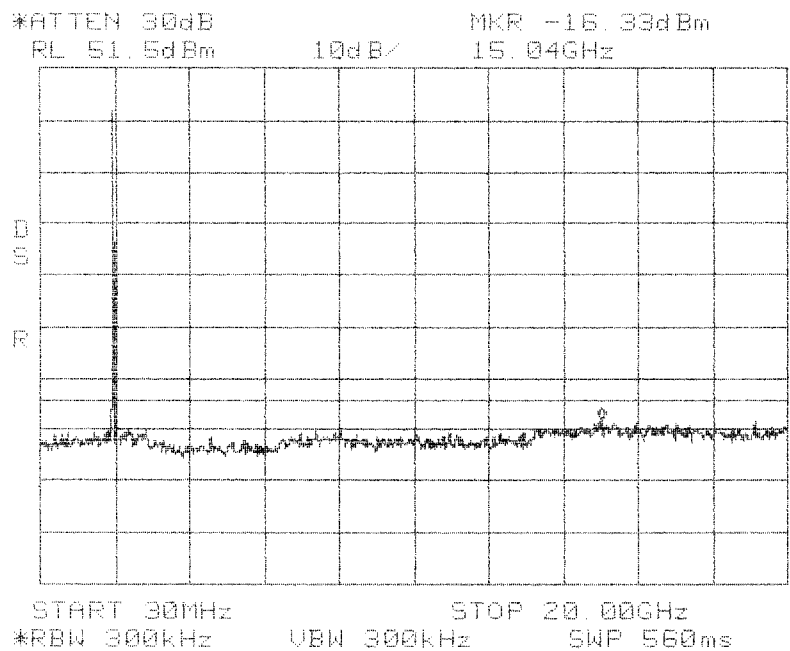
Conducted Emissions
Low
PCS 1900 MHz
DBE Band

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1957.5 MHz
Span: 30 MHz
RBW/VBW: 100 kHz



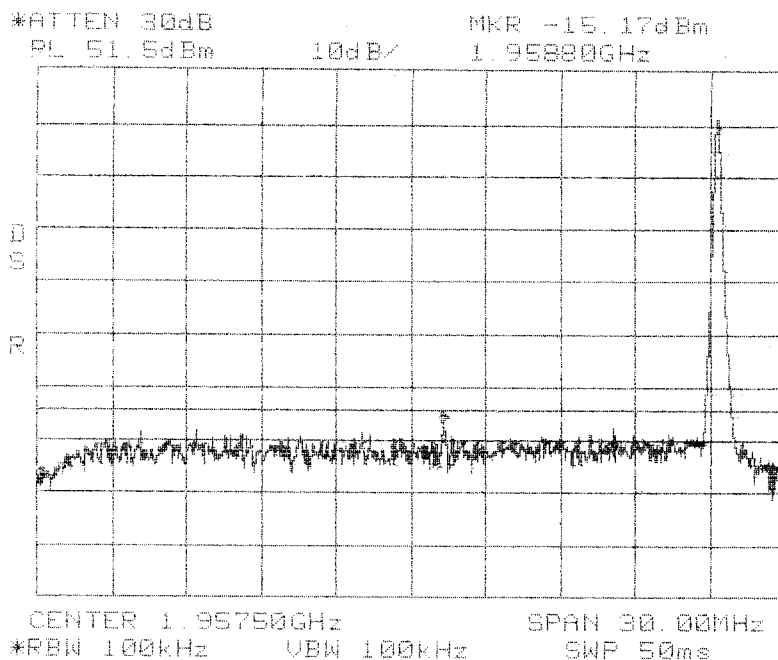
**Conducted Emissions
Mid
PCS 1900 MHz
DBE Band**



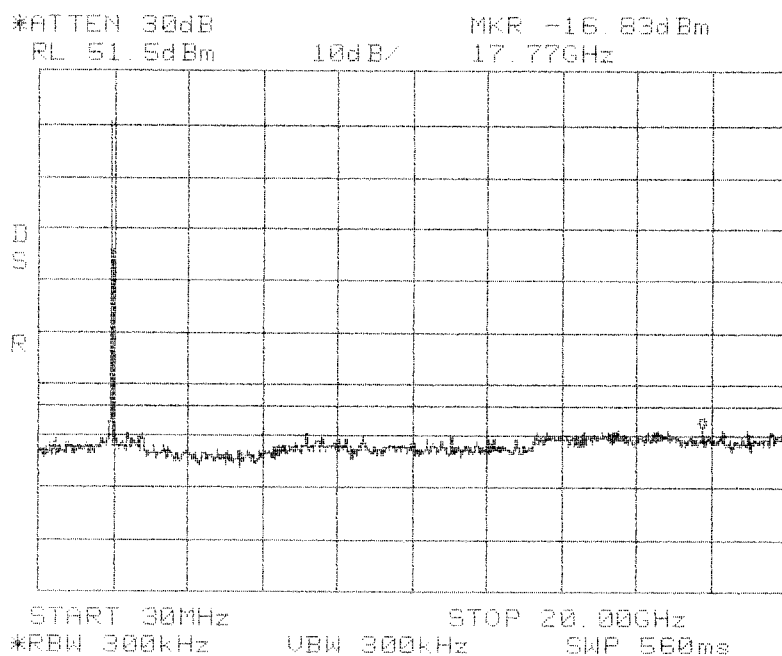
**Conducted Emissions
Mid
PCS 1900 MHz
DBE Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1957.5 MHz
Span: 30 MHz
RBW/VBW: 100 kHz



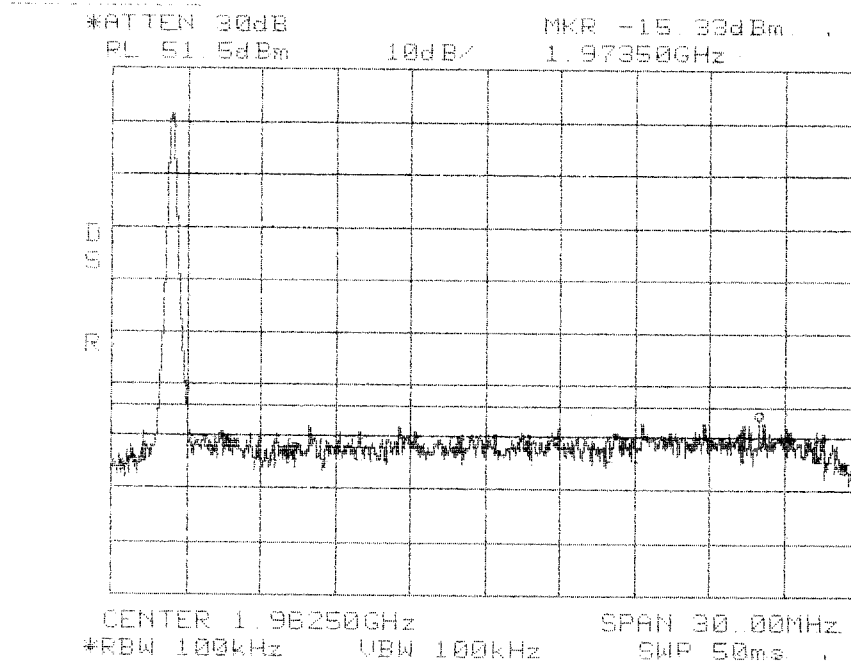
**Conducted Emissions
High
PCS 1900 MHz
DBE Band**



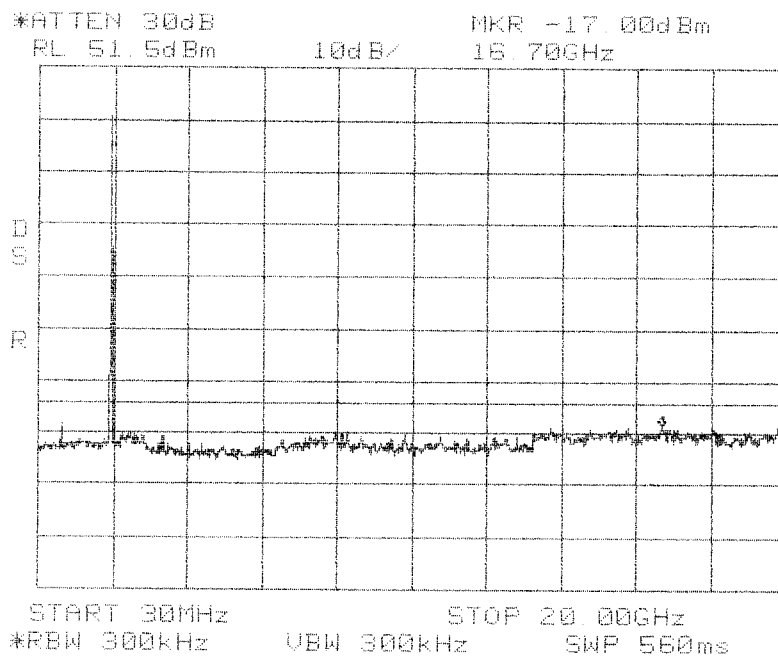
**Conducted Emissions
High
PCS 1900 MHz
DBE Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1962.5 MHz
Span: 30 MHz
RBW/VBW: 100 kHz



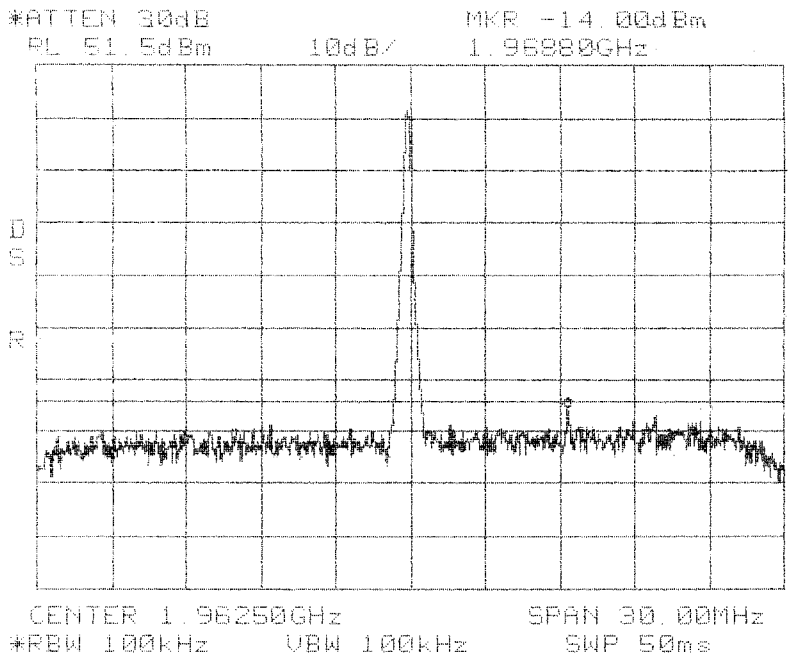
Conducted Emissions
Low
PCS 1900 MHz
BEF Band



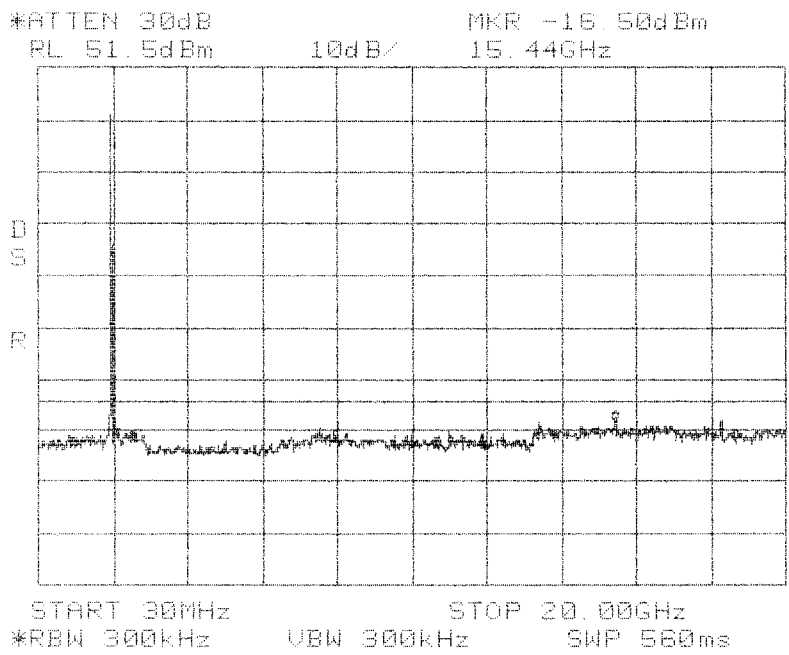
Conducted Emissions
Low
PCS 1900 MHz
BEF Band

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1962.5 MHz
Span: 30 MHz
RBW/VBW: 100 kHz



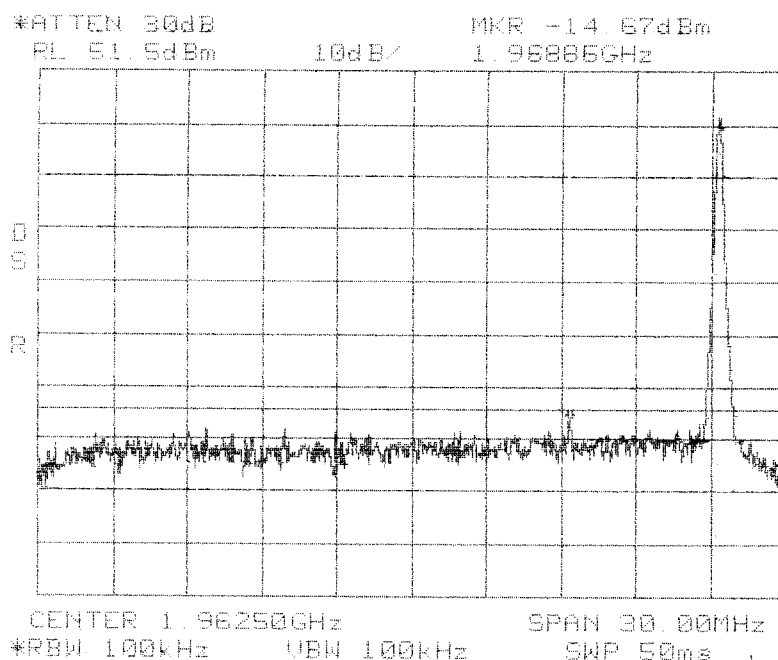
Conducted Emissions
Mid
PCS 1900 MHz
BEF Band



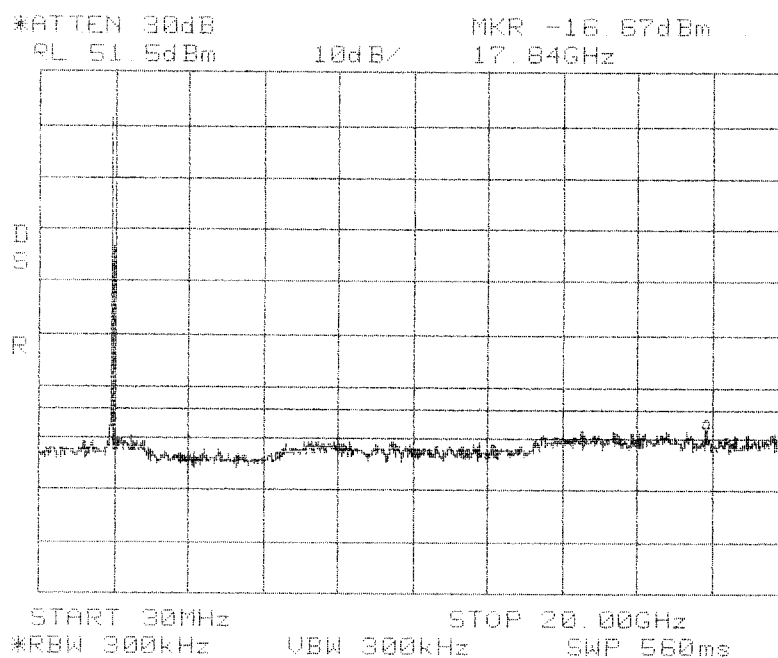
Conducted Emissions
Mid
PCS 1900 MHz
BEF Band

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1962.5 MHz
Span: 30 MHz
RBW/VBW: 100 kHz



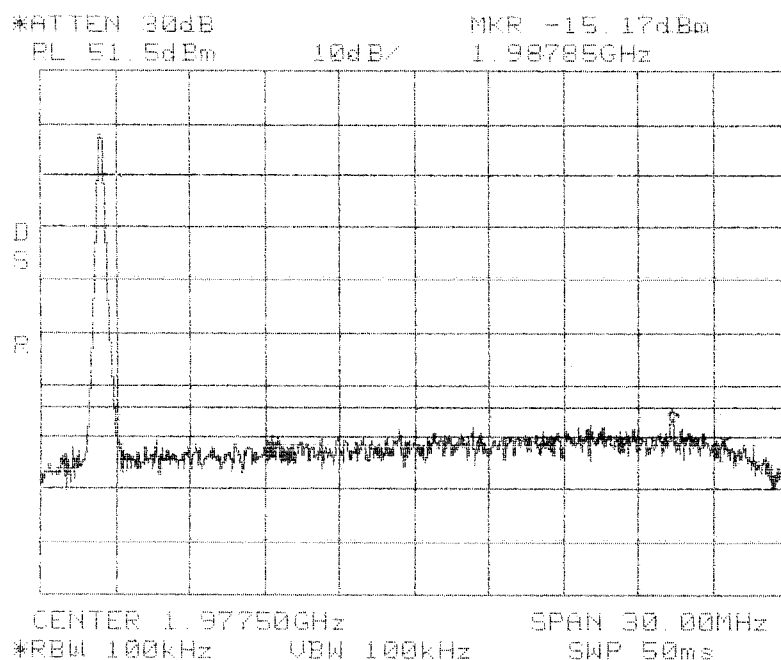
**Conducted Emissions
High
PCS 1900 MHz
BEF Band**



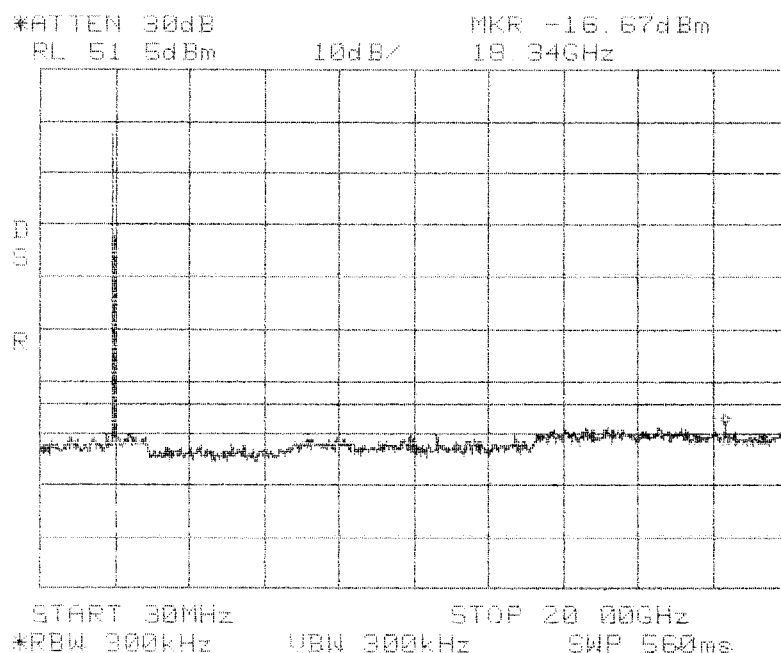
**Conducted Emissions
High
PCS 1900 MHz
BEF Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1977.5 MHz
Span: 30 MHz
RBW/VBW: 100 kHz



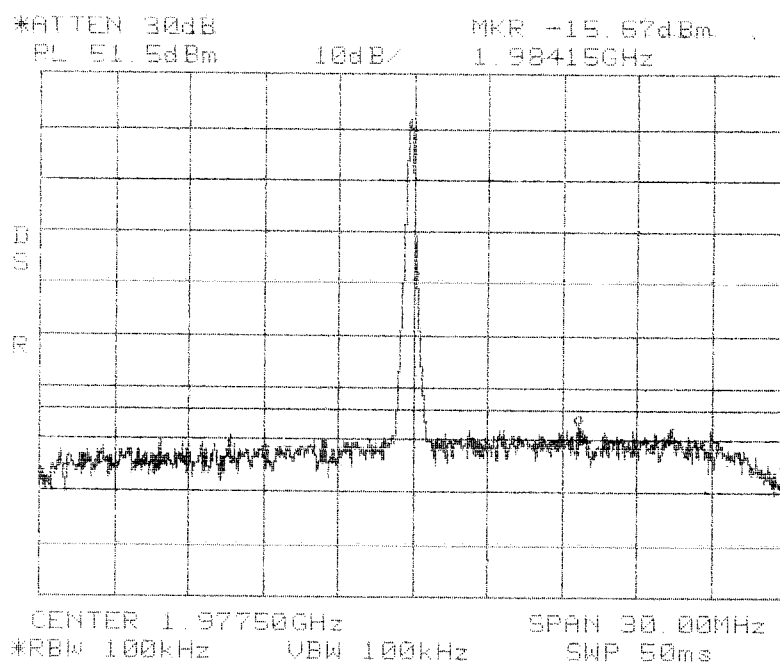
Conducted Emissions
Low
PCS 1900 MHz
EFC Band



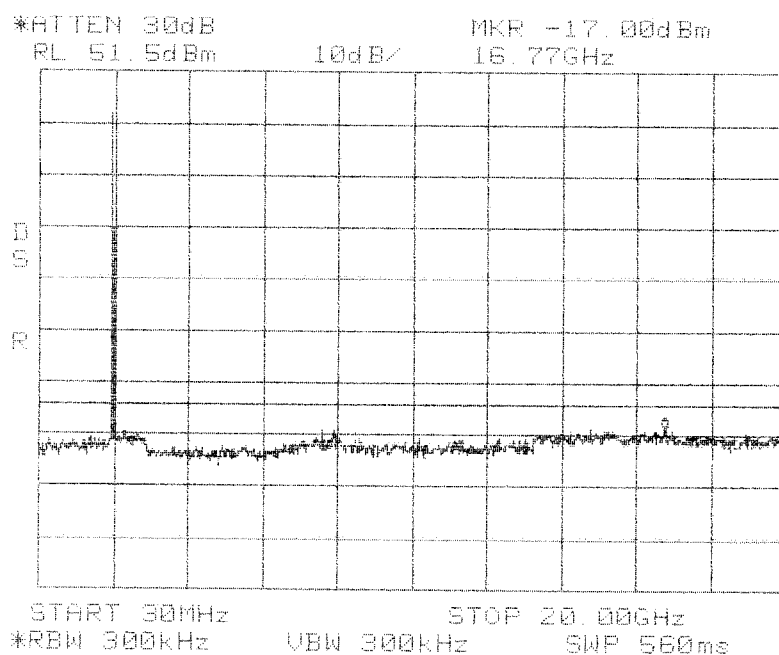
Conducted Emissions
Low
PCS 1900 MHz
EFC Band

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1977.5 MHz
Span: 30 MHz
RBW/VBW: 100 kHz



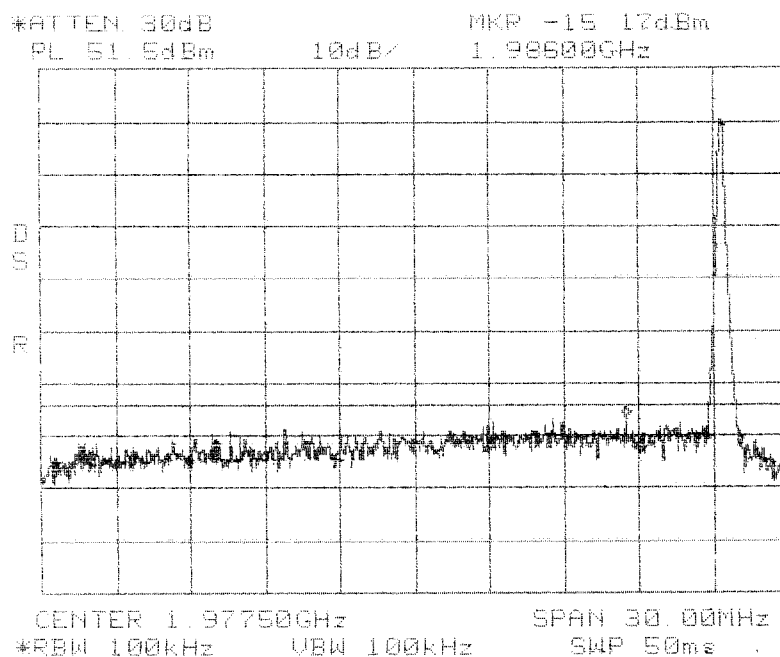
Conducted Emissions
Mid
PCS 1900 MHz
EFC Band



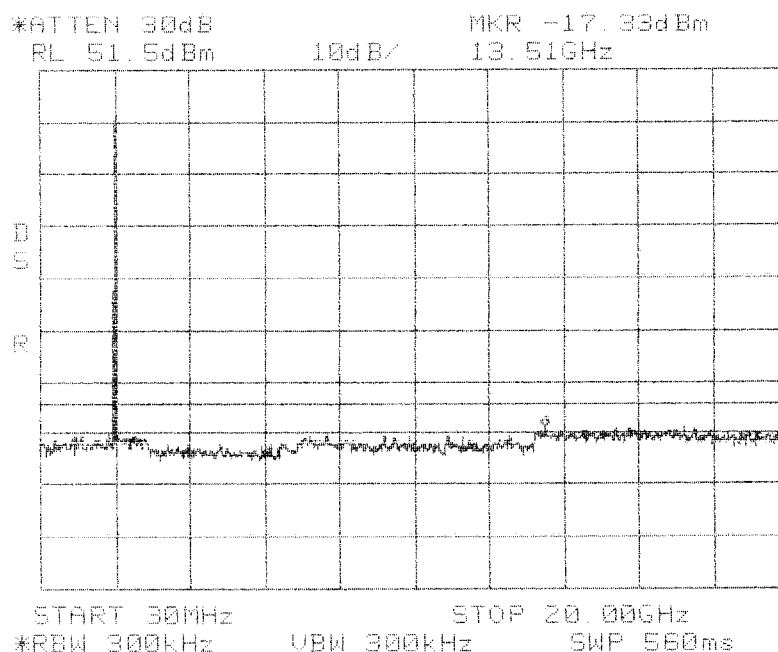
Conducted Emissions
Mid
PCS 1900 MHz
EFC Band

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1977.5 MHz
Span: 30 MHz
RBW/VBW: 100 kHz



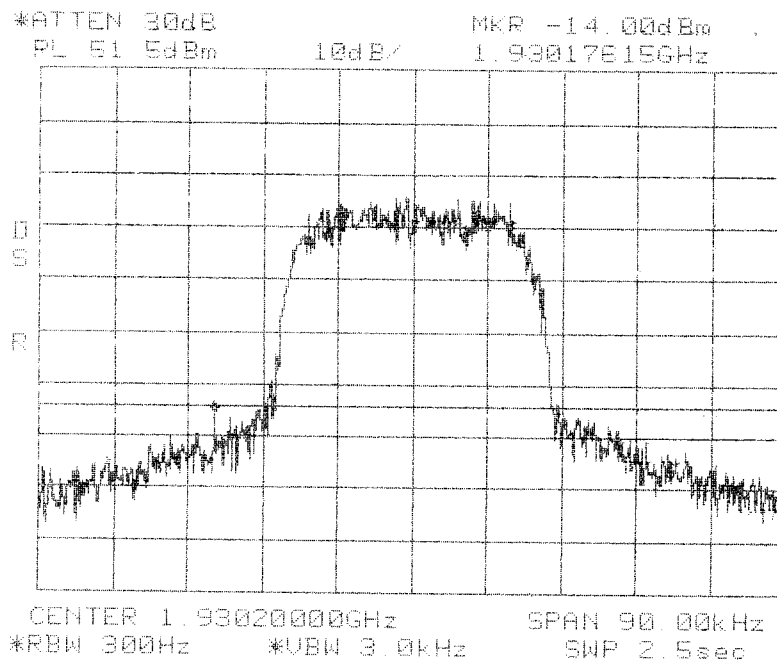
**Conducted Emissions
High
PCS 1900 MHz
EFC Band**



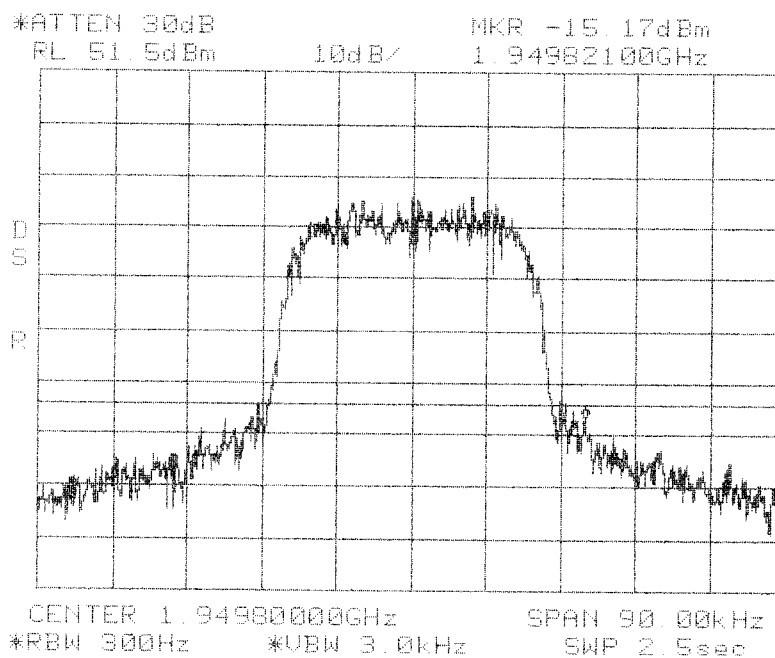
**Conducted Emissions
High
PCS 1900 MHz
EFC Band**

Span: 30 MHz to 20 GHz
RBW/VBW: 300 kHz

Center: 1930.2 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz



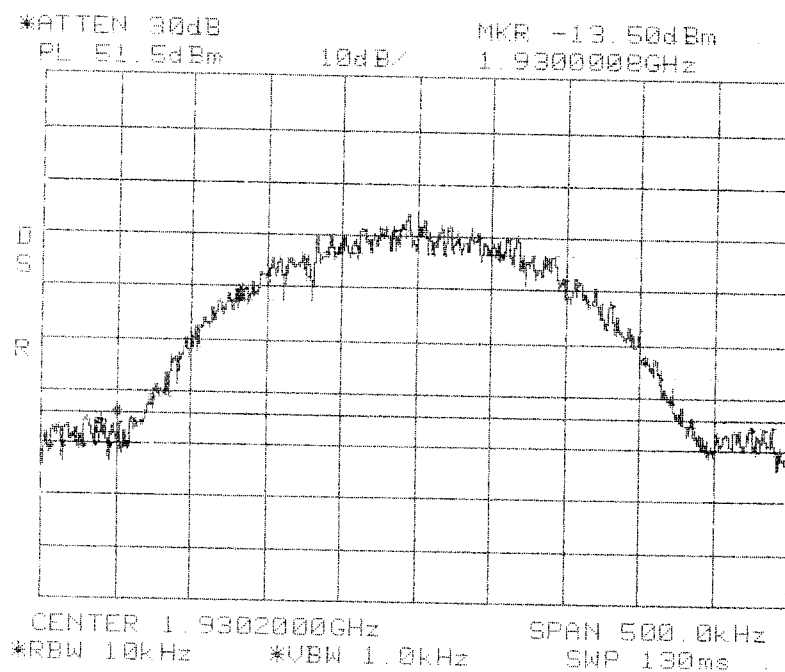
**Conducted Emissions
Band Edge
TDMA
PCS 1900 MHz
AD Band**



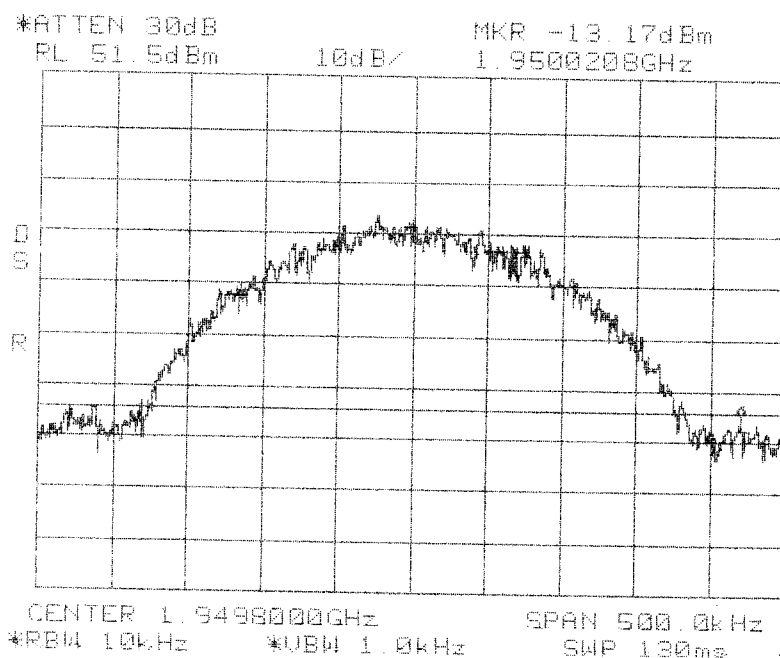
**Conducted Emissions
Band Edge
TDMA
PCS 1900 MHz
AD Band**

Center: 1949.8 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz

Center: 1930.2 MHz
Span: 500 kHz
RBW/VBW: 10 kHz / 1 kHz



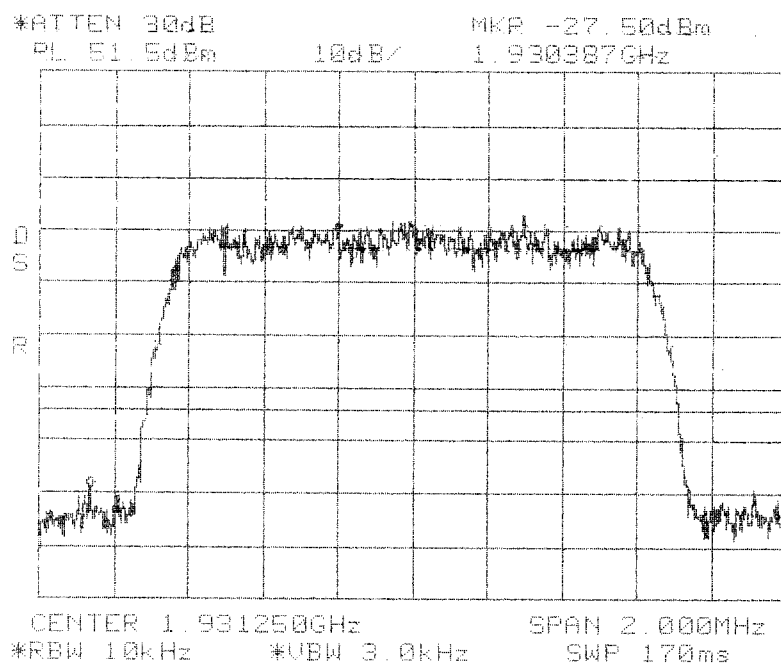
Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
AD Band



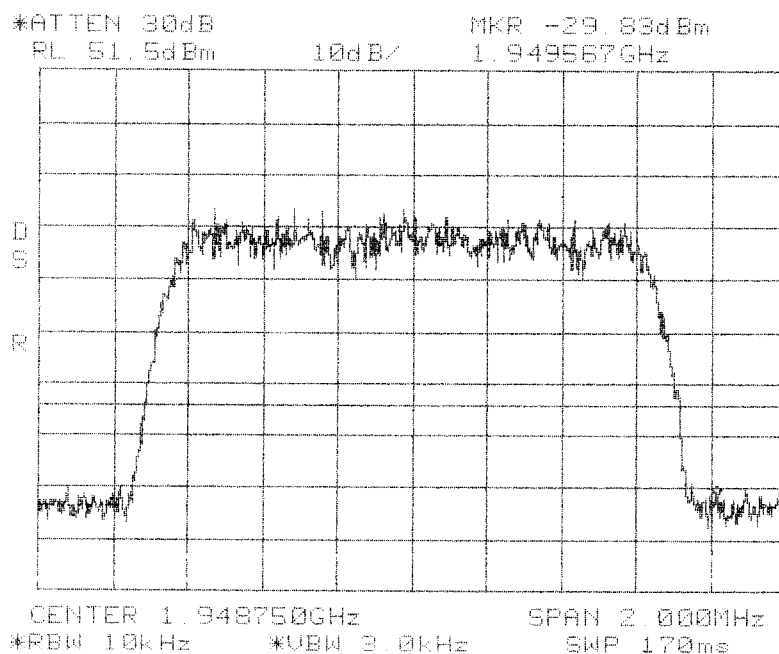
Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
AD Band

Center: 1949.8 MHz
Span: 500 kHz
RBW/VBW: 10 kHz / 1 kHz

Center: 1931.25 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz



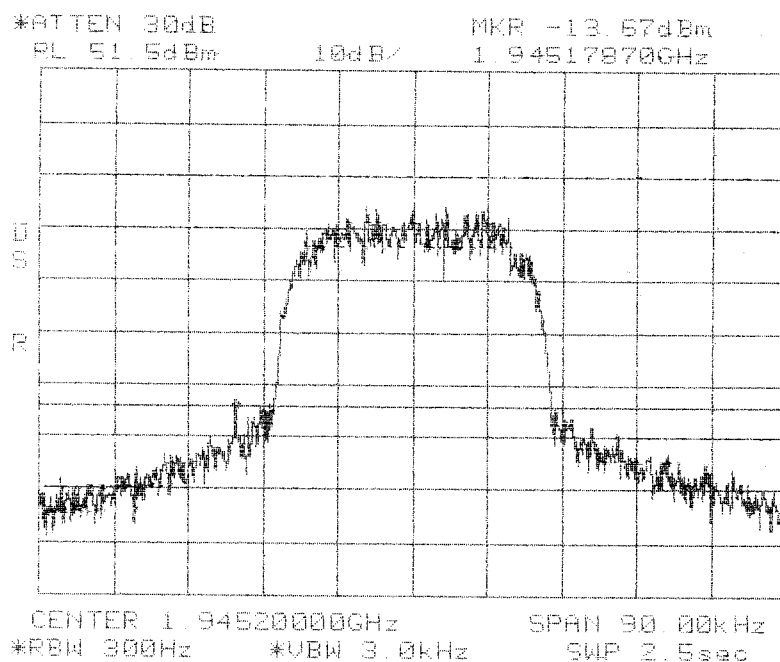
**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
AD Band**



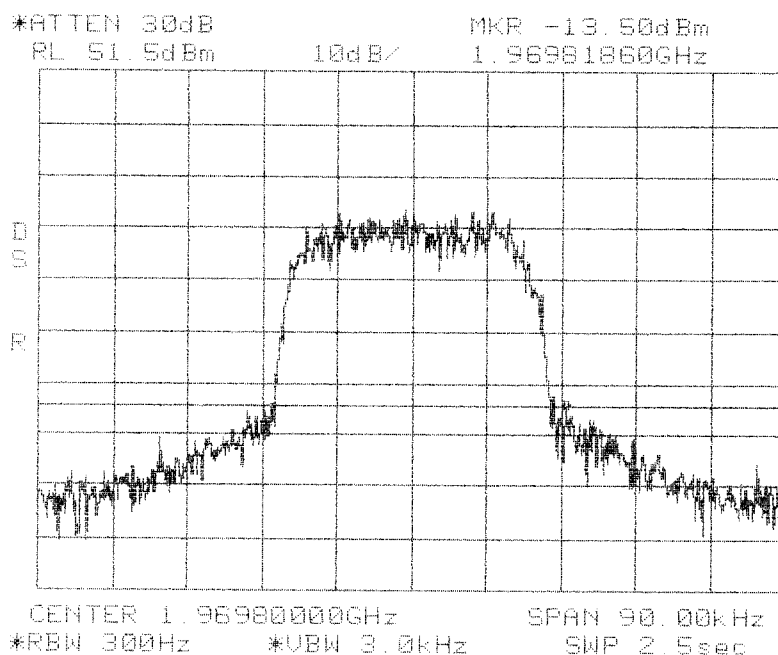
**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
AD Band**

Center: 1948.75 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1945.2 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz



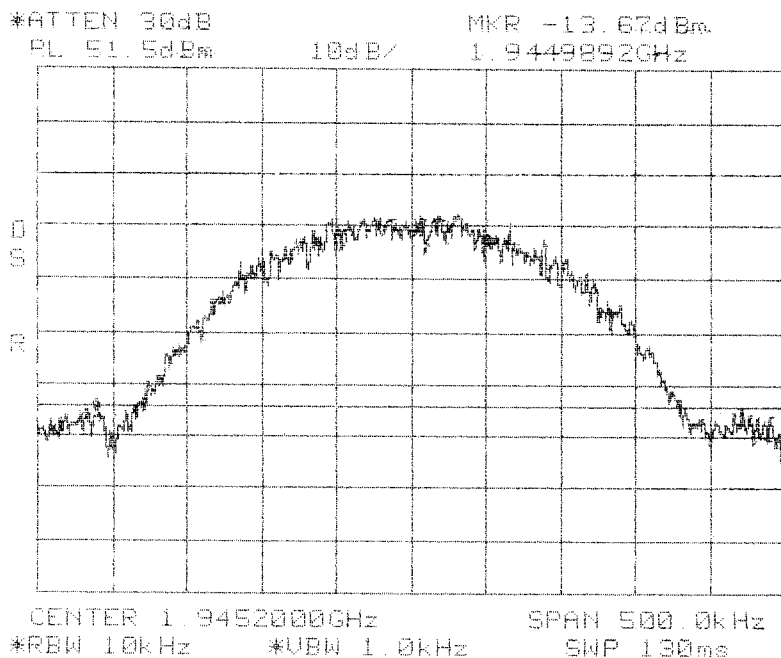
**Conducted Emissions
Band Edge
TDMA
PCS 1900 MHz
DBE Band**



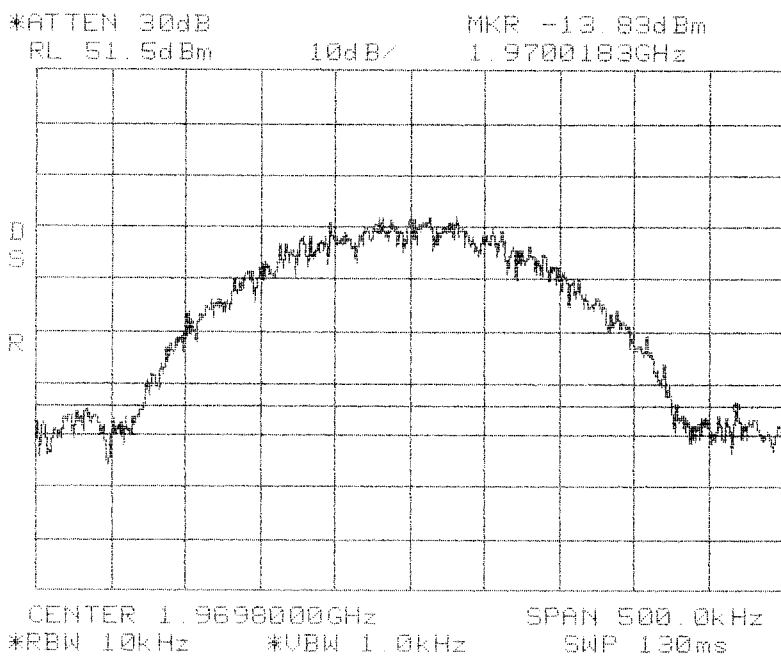
**Conducted Emissions
Band Edge
TDMA
PCS 1900 MHz
DBE Band**

Center: 1969.8 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz

Center: 1945.2 MHz
Span: 500 kHz
RBW/VBW: 10 kHz / 1 kHz



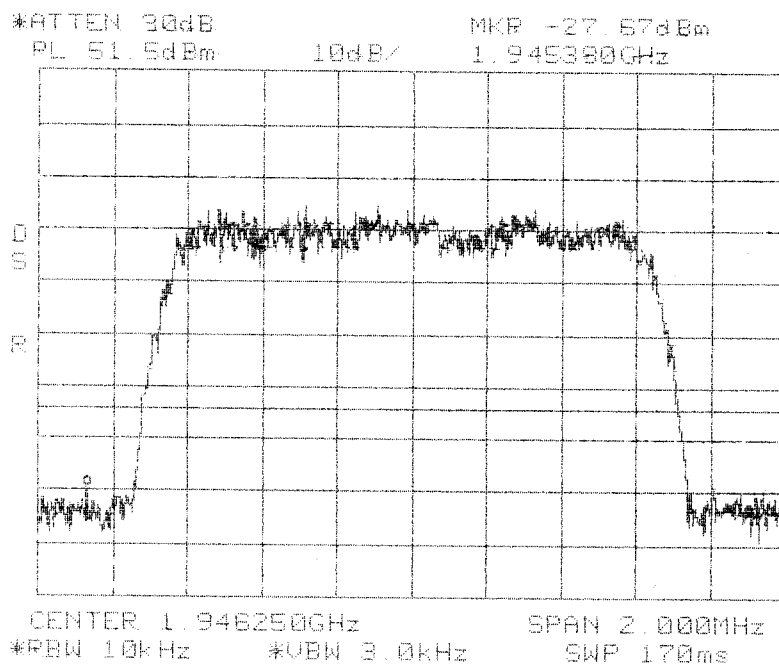
**Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
DBE Band**



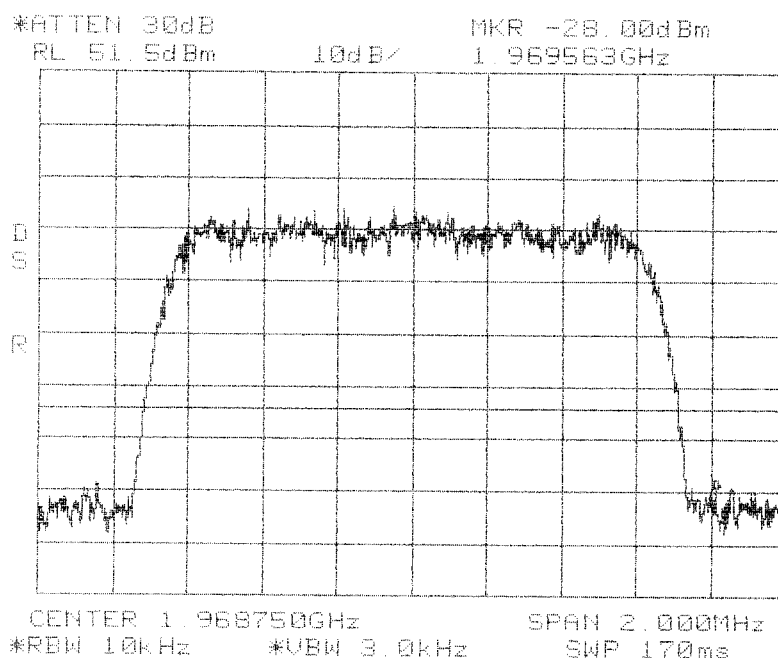
**Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
DBE Band**

Center: 1969.8 MHz
Span: 500 kHz
RBW/VBW: 10 kHz / 1 kHz

Center: 1946.25 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz



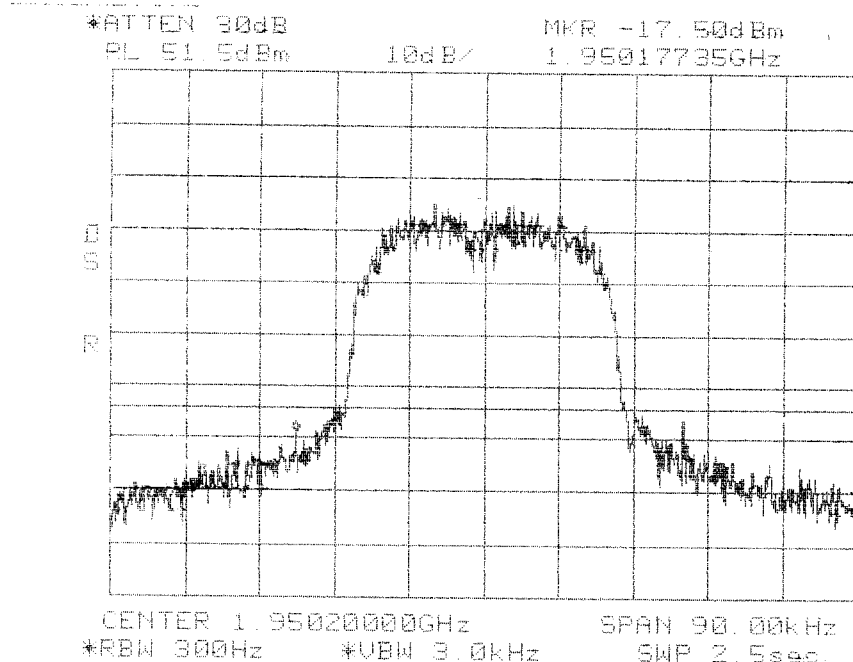
**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
DBE Band**



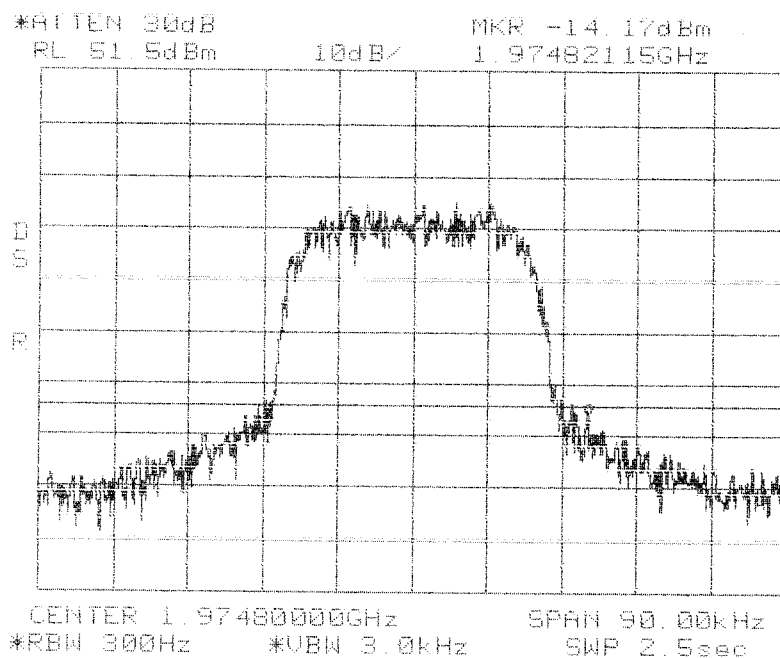
**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
DBE Band**

Center: 1968.75 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1950.2 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz



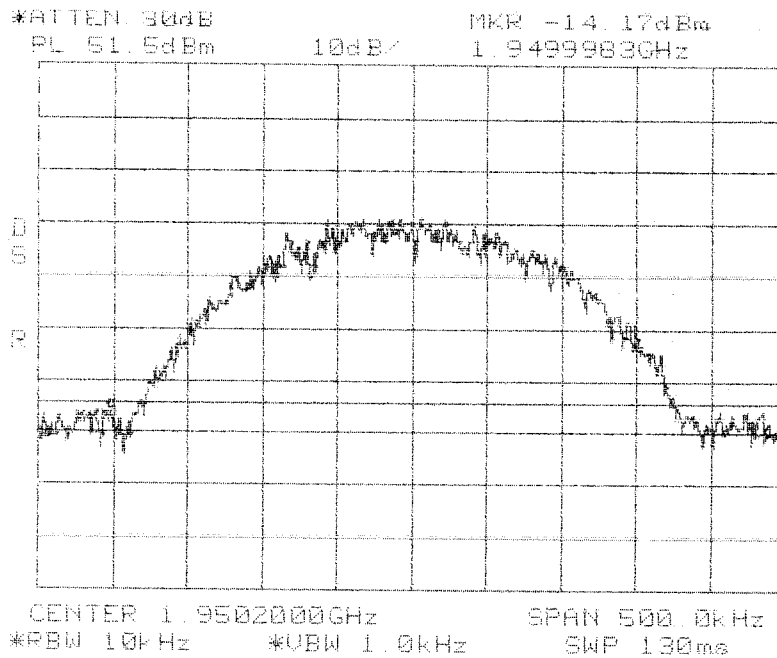
**Conducted Emissions
Band Edge
TDMA
PCS 1900 MHz
BEF Band**



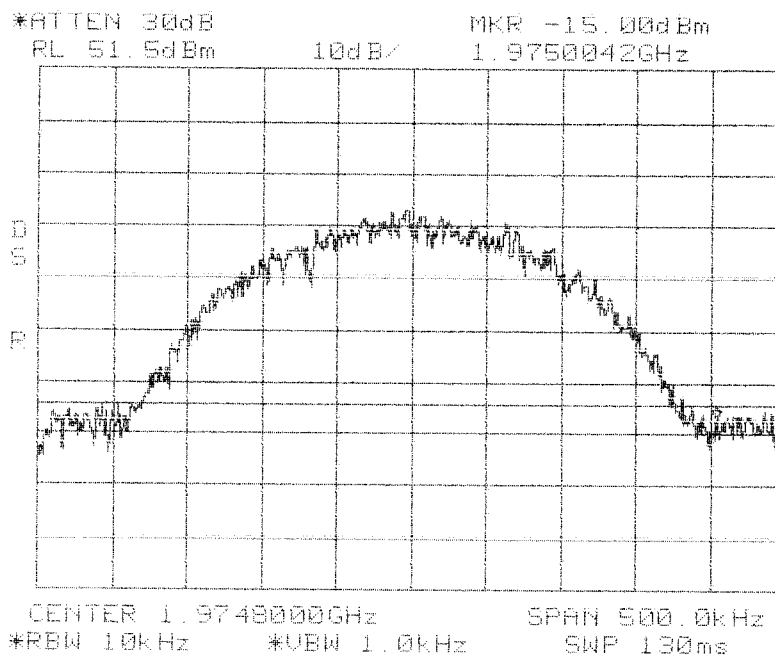
**Conducted Emissions
Band Edge
TDMA
PCS 1900 MHz
BEF Band**

Center: 1974.8 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz

Center: 1950.2 MHz
Span: 500 kHz
RBW/VBW: 10 kHz / 1 kHz



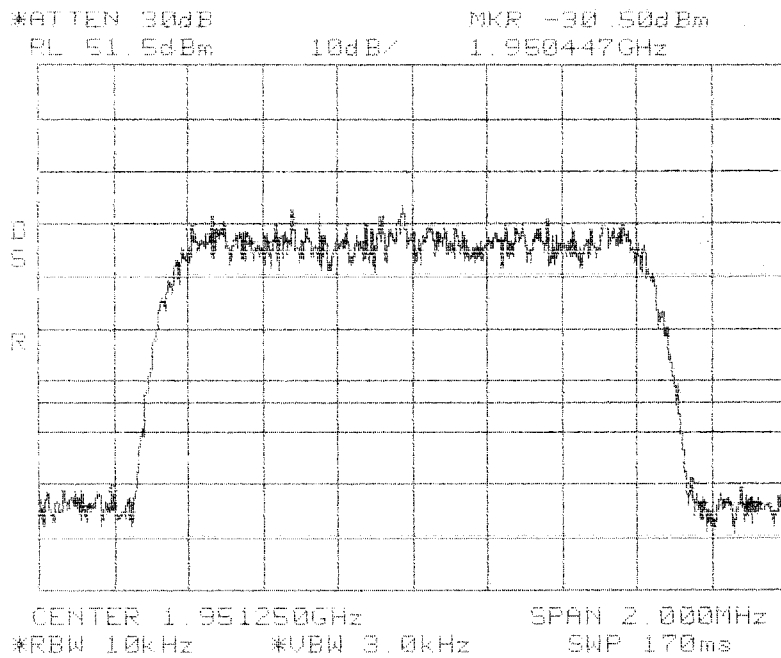
**Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
BEF Band**



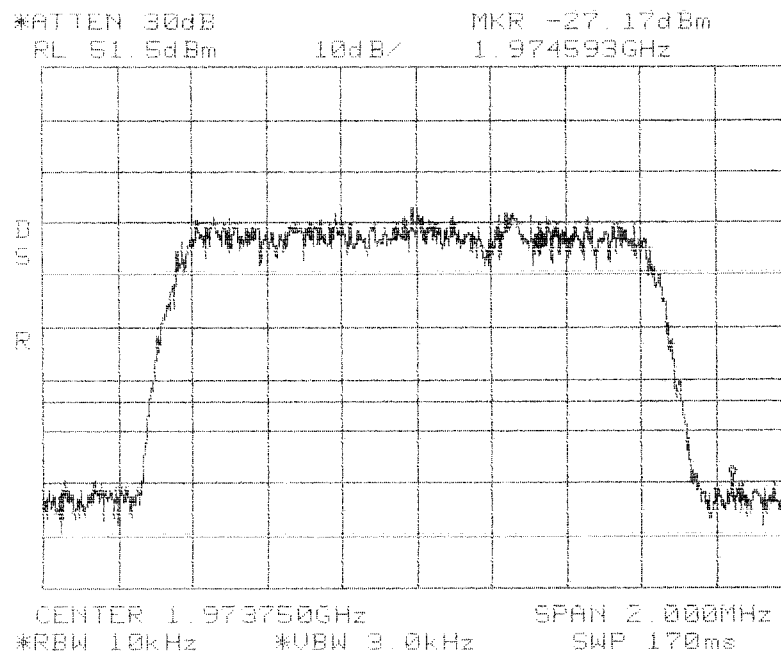
**Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
BEF Band**

Center: 1974.8 MHz
Span: 500 kHz
RBW/VBW: 10 kHz / 1 kHz

Center: 1951.25 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz



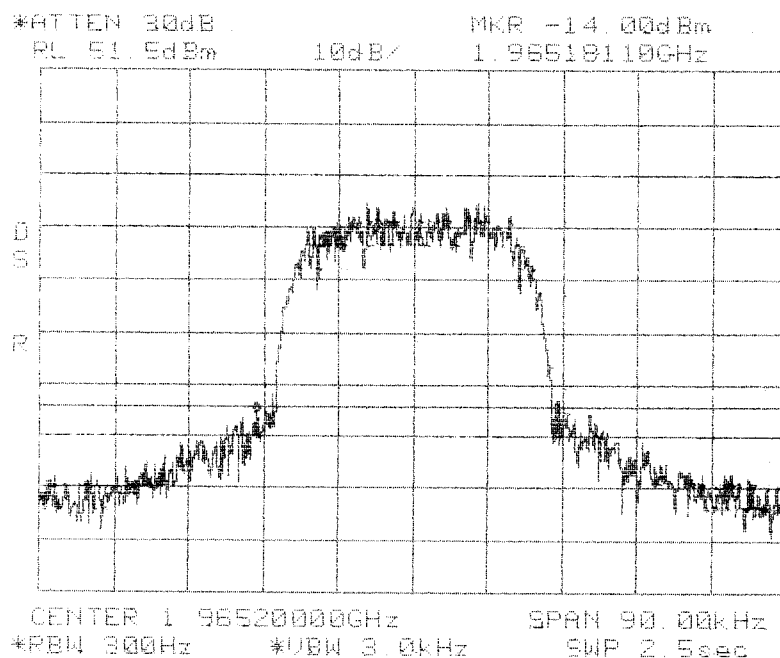
**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
BEF Band**



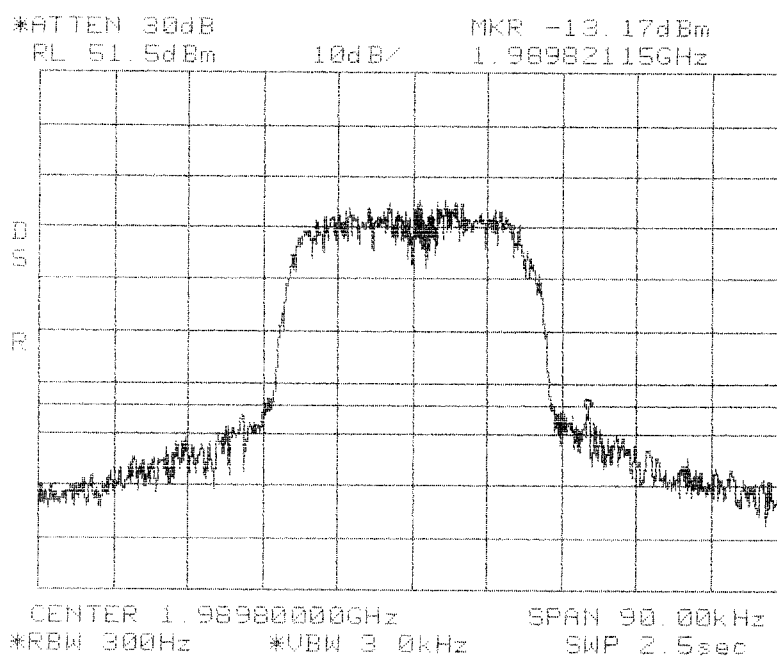
**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
BEF Band**

Center: 1973.75 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz

Center: 1965.2 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz



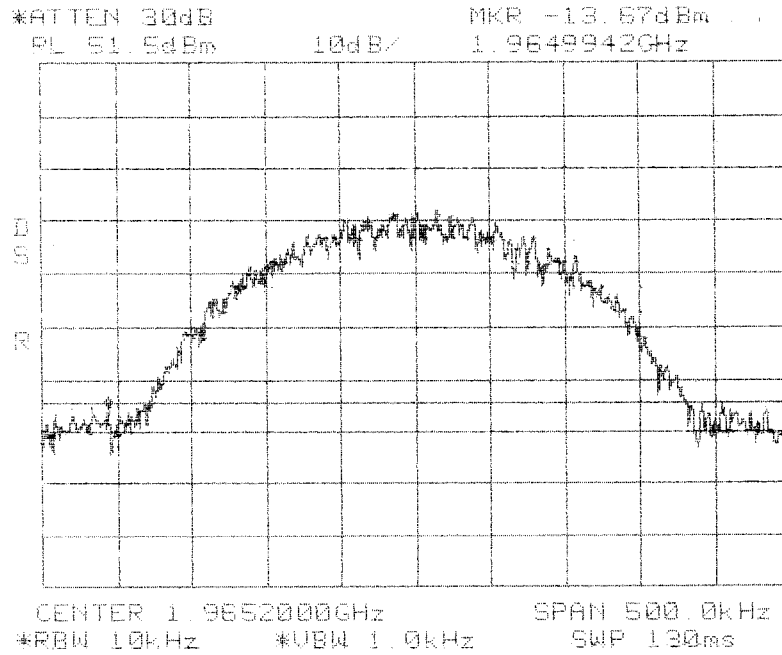
**Conducted Emissions
Band Edge
TDMA
PCS 1900 MHz
EFC Band**



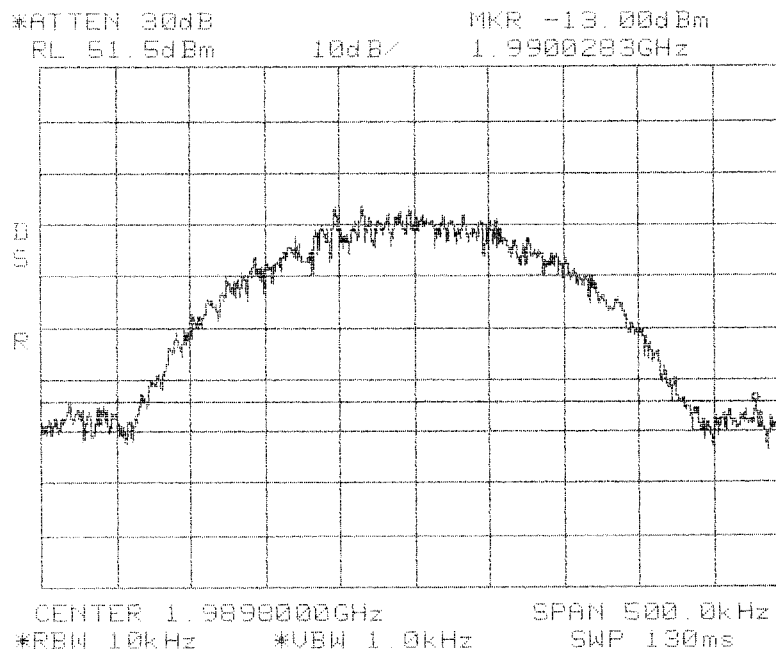
**Conducted Emissions
Band Edge
TDMA
PCS 1900 MHz
EFC Band**

Center: 1989.8 MHz
Span: 90 kHz
RBW/VBW: 300 Hz / 3 kHz

Center: 1965.2 MHz
Span: 500 kHz
RBW/VBW: 10 kHz / 1 kHz



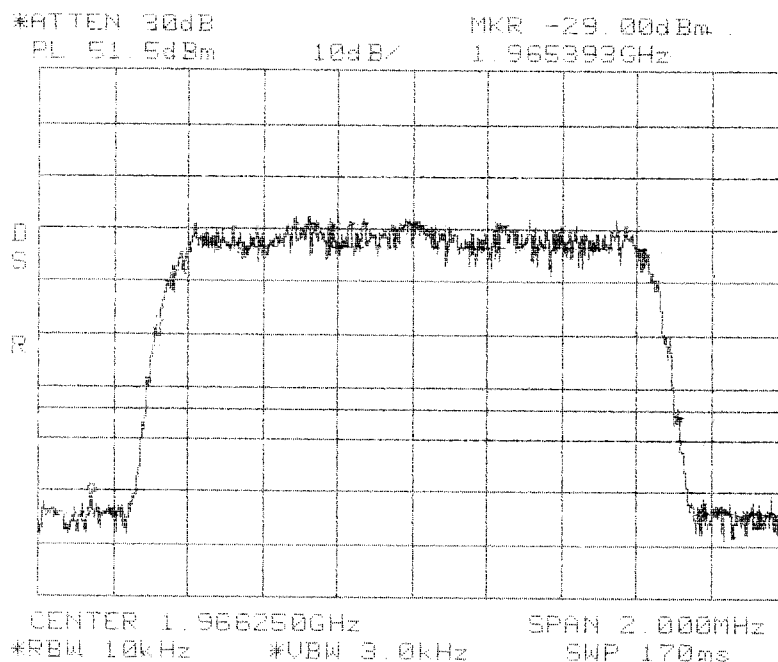
**Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
EFC Band**



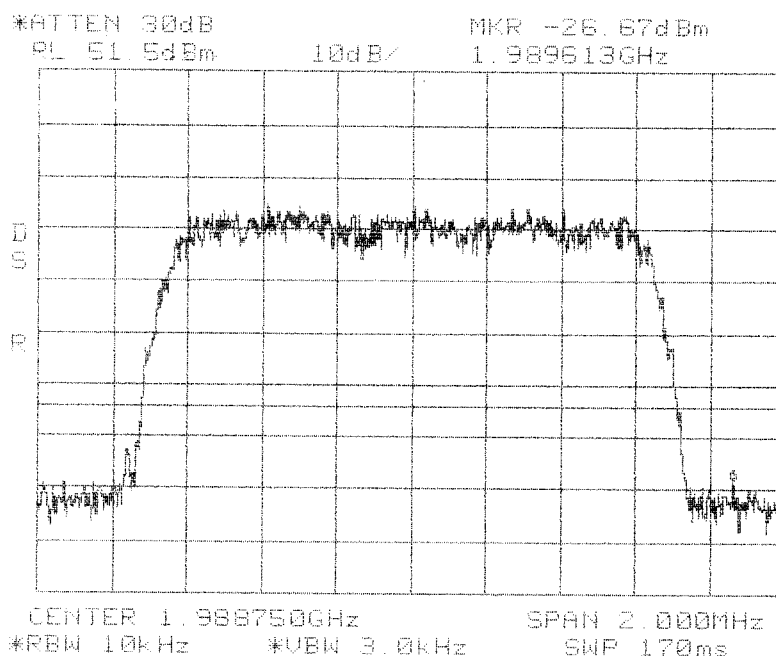
**Conducted Emissions
Band Edge
GSM
PCS 1900 MHz
EFC Band**

Center: 1989.8 MHz
Span: 500 kHz
RBW/VBW: 10 kHz / 1 kHz

Center: 1966.25 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz



**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
EFC Band**



**Conducted Emissions
Band Edge
CDMA
PCS 1900 MHz
EFC Band**

Center: 1988.75 MHz
Span: 2 MHz
RBW/VBW: 10 kHz / 3 kHz

Equivalent Isotropically Radiated Power (EIRP) Substitution

Company: ADC Inc.
EUT: DGVL461110SYS
Date: 11/10/05
Tested By: Joe Sausen

SUBSTITUTION PERFORMED

Plug in freq, final dBuV/m, Matching Sig gen level, and cable loss

(if using antenna other than dipole also enter ant. Gain) - final matching dBm will automatically be calculated in column F. (Final dBm = Sig gen level (dBm) - Cable loss + Ant. Gain)

Schwarzbeck dipole antenna gain : 2.15dBi -10dB + 1.64dB = -6.21

2.15dBi theoretical gain of a dipole, 10dB internal attenuator, 1.64dB correction for 73 / 50 ohm balun

		Matches		Dipole	Matches
Freq. (MHz)	Final (dBuV/m)	Sig Gen Level (dBm)	Cable Loss (dB)	Ant. Gain (dB)	Final (dBm)
426	68.8	-31.3	1.6	-6.21	-39.11

SUBSTITUTION EXTRAPOLATED TO OTHER SPURIOUS EMISSIONS

Enter any more spurious frequencies and final dBuV/m. Corresponding final power levels will automatically be calculated.

Freq. MHz	Final dBuV/m	Correction Factor	Final dBm	Final uW	
426	68.8	107.91	-39.11	0.122744	
1950	110.3	107.91	2.39	1733.803998	run 1
1945	104.65	107.91	-3.26	472.063041	run 2
1978	113.85	107.91	5.94	3926.449354	run 3
3925	85.95	107.91	-21.96	6.367955	run 4

RADIATED EMISSIONS



Test Report #: WC505745 Run 1 Test Area: LTS

EUT Model #: DGVL431110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "A & D" Bands

Data File Name: 5745-1re.dat

Page: 1 of 11

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
NOTE! 1930 MHz Tx setting:						
1.065 GHz	50.45 Pk	2.83 / 25.59 / 49.22 / 0.0	29.65	H / 1.00 / 0	-78.26	-65.26
1.136 GHz	58.8 Pk	2.93 / 25.51 / 49.55 / 0.0	37.68	H / 1.00 / 0	-70.23	-57.23
1.207 GHz	51.3 Pk	3.01 / 25.43 / 49.62 / 0.0	30.12	H / 1.00 / 0	-77.79	-64.79
1.278 GHz	61.0 Pk	3.1 / 25.35 / 49.25 / 0.0	40.19	H / 1.00 / 0	-67.72	-54.72
1.349 GHz	62.8 Pk	3.18 / 25.27 / 49.37 / 0.0	41.87	H / 1.00 / 0	-66.04	-53.04
1.42 GHz	63.05 Pk	3.3 / 25.19 / 49.65 / 0.0	41.88	H / 1.00 / 0	-66.03	-53.03
1.491 GHz	62.4 Pk	3.42 / 25.11 / 49.8 / 0.0	41.13	H / 1.00 / 0	-66.78	-53.78
1.562 GHz	50.9 Pk	3.49 / 25.49 / 49.62 / 0.0	30.26	H / 1.00 / 0	-77.65	-64.65
1.633 GHz	57.6 Pk	3.55 / 25.93 / 49.58 / 0.0	37.5	H / 1.00 / 0	-70.41	-57.41
1.704 GHz	44.7 Pk	3.62 / 26.38 / 49.76 / 0.0	24.94	H / 1.00 / 0	-82.97	-69.97
1.775 GHz	59.1 Pk	3.74 / 26.83 / 49.67 / 0.0	40.0	H / 1.00 / 0	-67.91	-54.91
1.846 GHz	52.4 Pk	3.83 / 27.27 / 49.79 / 0.0	33.71	H / 1.00 / 0	-74.2	-61.2
1.917 GHz	52.4 Pk	3.88 / 27.72 / 49.91 / 0.0	34.09	H / 1.00 / 0	-73.82	-60.82
1.988 GHz	52.55 Pk	3.9 / 28.17 / 49.65 / 0.0	34.96	H / 1.00 / 0	-72.95	-59.95
2.059 GHz	48.8 Pk	3.9 / 28.29 / 49.49 / 0.0	31.5	H / 1.00 / 0	-76.41	-63.41
2.13 GHz	51.0 Pk	3.97 / 28.34 / 49.41 / 0.0	33.91	H / 1.00 / 0	-74	-61
2.201 GHz	48.9 Pk	4.06 / 28.4 / 49.42 / 0.0	31.95	H / 1.00 / 0	-75.96	-62.96
2.272 GHz	47.3 Pk	4.15 / 28.46 / 49.07 / 0.0	30.84	H / 1.00 / 0	-77.07	-64.07
2.343 GHz	42.2 Pk	4.24 / 28.51 / 49.14 / 0.0	25.81	H / 1.00 / 0	-82.1	-69.1
2.414 GHz	48.25 Pk	4.31 / 28.57 / 49.36 / 0.0	31.77	H / 1.00 / 0	-76.14	-63.14
2.485 GHz	43.45 Pk	4.36 / 28.63 / 49.11 / 0.0	27.32	H / 1.00 / 0	-80.59	-67.59
2.698 GHz	48.15 Pk	4.48 / 29.21 / 48.26 / 0.0	33.58	H / 1.00 / 0	-74.33	-61.33
2.769 GHz	45.2 Pk	4.53 / 29.41 / 48.26 / 0.0	30.87	H / 1.00 / 0	-77.04	-64.04
2.84 GHz	46.35 Pk	4.6 / 29.62 / 48.37 / 0.0	32.2	H / 1.00 / 0	-75.71	-62.71
2.911 GHz	41.9 Pk	4.67 / 29.82 / 48.48 / 0.0	27.92	H / 1.00 / 0	-79.99	-66.99

Tested by: Mike Schultz

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Michael Schultz

Signature

Reviewed by: Greg Jakubowski

Printed

G Jakubowski

Signature

RADIATED EMISSIONS



Test Report #: WC505745 Run 1 Test Area: LTS

EUT Model #: DGVL431110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "A & D" Bands

Data File Name: 5745-1re.dat

Page: 2 of 11

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
3.124 GHz	43.7 Pk	4.87 / 30.35 / 47.17 / 0.0	31.76	H / 1.00 / 0	-76.15	-63.15
3.195 GHz	44.45 Pk	4.94 / 30.51 / 47.65 / 0.0	32.25	H / 1.00 / 0	-75.66	-62.66
3.266 GHz	44.05 Pk	5.0 / 30.67 / 47.55 / 0.0	32.17	H / 1.00 / 0	-75.74	-62.74
3.337 GHz	38.75 Pk	5.06 / 30.83 / 47.42 / 0.0	27.22	H / 1.00 / 0	-80.69	-67.69
3.408 GHz	47.55 Pk	5.15 / 30.98 / 47.3 / 0.0	36.38	H / 1.00 / 0	-71.53	-58.53
3.479 GHz	42.5 Pk	5.27 / 31.14 / 47.32 / 0.0	31.59	H / 1.00 / 0	-76.32	-63.32
3.55 GHz	40.25 Pk	5.38 / 31.32 / 47.17 / 0.0	29.78	H / 1.00 / 0	-78.13	-65.13
3.621 GHz	44.0 Pk	5.5 / 31.49 / 47.0 / 0.0	34.0	H / 1.00 / 0	-73.91	-60.91
3.692 GHz	46.8 Pk	5.56 / 31.67 / 46.95 / 0.0	37.07	H / 1.00 / 0	-70.84	-57.84
3.763 GHz	40.75 Pk	5.61 / 31.85 / 46.43 / 0.0	31.78	H / 1.00 / 0	-76.13	-63.13
3.834 GHz	40.35 Pk	5.66 / 32.03 / 46.29 / 0.0	31.75	H / 1.00 / 0	-76.16	-63.16
3.905 GHz	41.7 Pk	5.74 / 32.21 / 46.58 / 0.0	33.07	H / 1.00 / 0	-74.84	-61.84
3.976 GHz	39.7 Pk	5.84 / 32.39 / 46.09 / 0.0	31.84	H / 1.00 / 0	-76.07	-63.07
4.26 GHz	50.55 Pk	6.1 / 32.37 / 46.03 / 0.0	42.99	H / 1.00 / 0	-64.92	-51.92
4.331 GHz	42.25 Pk	6.1 / 32.35 / 45.88 / 0.0	34.82	H / 1.00 / 0	-73.09	-60.09
4.402 GHz	39.0 Pk	6.1 / 32.33 / 45.82 / 0.0	31.6	H / 1.00 / 0	-76.31	-63.31
4.473 GHz	43.7 Pk	6.11 / 32.3 / 45.59 / 0.0	36.53	H / 1.00 / 0	-71.38	-58.38
4.544 GHz	44.05 Pk	6.15 / 32.39 / 45.32 / 0.0	37.27	H / 1.00 / 0	-70.64	-57.64
4.615 GHz	41.8 Pk	6.2 / 32.55 / 45.15 / 0.0	35.4	H / 1.00 / 0	-72.51	-59.51
5.254 GHz	40.05 Pk	6.65 / 33.75 / 44.74 / 0.0	35.7	H / 1.00 / 0	-72.21	-59.21
5.396 GHz	43.3 Pk	6.74 / 33.94 / 44.76 / 0.0	39.22	H / 1.00 / 0	-68.69	-55.69
5.609 GHz	41.05 Pk	6.87 / 34.14 / 45.45 / 0.0	36.61	H / 1.00 / 0	-71.3	-58.3
5.68 GHz	50.0 Pk	6.91 / 34.18 / 45.3 / 0.0	45.79	H / 1.00 / 0	-62.12	-49.12
5.751 GHz	41.85 Pk	6.95 / 34.22 / 45.65 / 0.0	37.37	H / 1.00 / 0	-70.54	-57.54
5.964 GHz	42.9 Pk	7.08 / 34.34 / 45.51 / 0.0	38.81	H / 1.00 / 0	-69.1	-56.1
7.1 GHz	45.2 Pk	8.1 / 35.61 / 45.73 / 0.0	43.18	H / 1.00 / 0	-64.73	-51.73

Tested by: Mike Schultz

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Reviewed by: Greg Jakubowski

Printed

Signature

RADIATED EMISSIONS



Test Report #: WC505745 Run 1 Test Area: LTS

EUT Model #: DGVL431110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "A & D" Bands

Data File Name: 5745-1re.dat

Page: 3 of 11

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
8.88 GHz	43.1 Pk	9.26 / 37.35 / 44.58 / 0.0	45.13	H / 1.00 / 0	-62.78	-49.78
1.084 GHz	54.45 Pk	2.86 / 25.57 / 49.37 / 0.0	33.51	H / 1.00 / 0	-74.4	-61.4
1.622 GHz	76.8 Pk	3.54 / 25.86 / 49.55 / 0.0	56.65	H / 1.00 / 0	-51.26	-38.26
1.776 GHz	57.15 Pk	3.74 / 26.83 / 49.67 / 0.0	38.05	H / 1.00 / 0	-69.86	-56.86
2.019 GHz	59.5 Pk	3.9 / 28.26 / 49.57 / 0.0	42.09	H / 1.00 / 0	-65.82	-52.82
2.238 GHz	52.05 Pk	4.11 / 28.43 / 49.24 / 0.0	35.35	H / 1.00 / 0	-72.56	-59.56
3.552 GHz	59.4 Pk	5.39 / 31.32 / 47.16 / 0.0	48.95	H / 1.00 / 0	-58.96	-45.96
3.86 GHz	63.8 Pk	5.68 / 32.1 / 46.42 / 0.0	55.16	H / 1.00 / 0	-52.75	-39.75
4.038 GHz	47.75 Pk	5.93 / 32.44 / 45.84 / 0.0	40.27	H / 1.00 / 0	-67.64	-54.64
5.79 GHz	54.7 Pk	6.97 / 34.24 / 45.94 / 0.0	49.97	H / 1.00 / 0	-57.94	-44.94
6.057 GHz	53.7 Pk	7.18 / 34.38 / 45.68 / 0.0	49.57	H / 1.00 / 0	-58.34	-45.34
7.104 GHz	49.25 Pk	8.1 / 35.62 / 45.73 / 0.0	47.24	H / 1.00 / 0	-60.67	-47.67
8.076 GHz	51.65 Pk	8.55 / 36.98 / 45.9 / 0.0	51.28	H / 1.00 / 0	-56.63	-43.63
12.114 GHz	44.0 Pk	10.54 / 39.15 / 45.17 / 0.0	48.52	H / 1.00 / 0	-59.39	-46.39
1.084 GHz	62.2 Pk	2.86 / 25.57 / 49.37 / 0.0	41.26	V / 1.00 / 0	-66.65	-53.65
1.207 GHz	59.5 Pk	3.01 / 25.43 / 49.62 / 0.0	38.32	V / 1.00 / 0	-69.59	-56.59
1.562 GHz	60.5 Pk	3.49 / 25.49 / 49.62 / 0.0	39.86	V / 1.00 / 0	-68.05	-55.05
1.622 GHz	87.45 Pk	3.54 / 25.86 / 49.55 / 0.0	67.3	V / 1.00 / 0	-40.61	-27.61
1.633 GHz	59.0 Pk	3.55 / 25.93 / 49.58 / 0.0	38.9	V / 1.00 / 0	-69.01	-56.01
1.704 GHz	55.6 Pk	3.62 / 26.38 / 49.76 / 0.0	35.84	V / 1.00 / 0	-72.07	-59.07
1.775 GHz	61.05 Pk	3.74 / 26.83 / 49.67 / 0.0	41.95	V / 1.00 / 0	-65.96	-52.96
1.846 GHz	59.2 Pk	3.83 / 27.27 / 49.79 / 0.0	40.51	V / 1.00 / 0	-67.4	-54.4
2.13 GHz	53.8 Pk	3.97 / 28.34 / 49.41 / 0.0	36.71	V / 1.00 / 0	-71.2	-58.2
2.238 GHz	55.05 Pk	4.11 / 28.43 / 49.24 / 0.0	38.35	V / 1.00 / 0	-69.56	-56.56
3.266 GHz	48.8 Pk	5.0 / 30.67 / 47.55 / 0.0	36.92	V / 1.00 / 0	-70.99	-57.99

Tested by: Mike Schultz

Printed

Michael Schultz

Signature

Reviewed by: Greg Jakubowski

Printed

G Jakubowski

Signature

RADIATED EMISSIONS



Test Report #: WC505745 Run 1 Test Area: LTS

EUT Model #: DGVL431110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "A & D" Bands

Data File Name: 5745-1re.dat

Page: 4 of 11

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
3.86 GHz	66.5 Pk	5.68 / 32.1 / 46.42 / 0.0	57.86	V / 1.00 / 0	-50.05	-37.05
4.544 GHz	46.6 Pk	6.15 / 32.39 / 45.32 / 0.0	39.82	V / 1.00 / 0	-68.09	-55.09
1.621 GHz maxed:						
1.622 GHz	95.3 Pk	3.54 / 25.86 / 49.55 / 0.0	75.15	V / 1.00 / 165	-32.76	-19.76
1.065 GHz	53.7 Pk	2.83 / 25.59 / 49.22 / 0.0	32.9	V / 1.00 / 165	-75.01	-62.01
1.136 GHz	60.5 Pk	2.93 / 25.51 / 49.55 / 0.0	39.38	V / 1.00 / 165	-68.53	-55.53
1.207 GHz	64.75 Pk	3.01 / 25.43 / 49.62 / 0.0	43.57	V / 1.00 / 165	-64.34	-51.34
1.491 GHz	62.95 Pk	3.42 / 25.11 / 49.8 / 0.0	41.68	V / 1.00 / 165	-66.23	-53.23
1.562 GHz	66.15 Pk	3.49 / 25.49 / 49.62 / 0.0	45.51	V / 1.00 / 165	-62.4	-49.4
1.704 GHz	60.55 Pk	3.62 / 26.38 / 49.76 / 0.0	40.79	V / 1.00 / 165	-67.12	-54.12
1.775 GHz	60.4 Pk	3.74 / 26.83 / 49.67 / 0.0	41.3	V / 1.00 / 165	-66.61	-53.61
1.846 GHz	60.35 Pk	3.83 / 27.27 / 49.79 / 0.0	41.66	V / 1.00 / 165	-66.25	-53.25
1.917 GHz	55.65 Pk	3.88 / 27.72 / 49.91 / 0.0	37.34	V / 1.00 / 165	-70.57	-57.57
2.019 GHz	62.5 Pk	3.9 / 28.26 / 49.57 / 0.0	45.09	V / 1.00 / 165	-62.82	-49.82
2.059 GHz	55.8 Pk	3.9 / 28.29 / 49.49 / 0.0	38.5	V / 1.00 / 165	-69.41	-56.41
2.13 GHz	59.15 Pk	3.97 / 28.34 / 49.41 / 0.0	42.06	V / 1.00 / 165	-65.85	-52.85
2.272 GHz	53.0 Pk	4.15 / 28.46 / 49.07 / 0.0	36.54	V / 1.00 / 165	-71.37	-58.37
2.414 GHz	54.35 Pk	4.31 / 28.57 / 49.36 / 0.0	37.87	V / 1.00 / 165	-70.04	-57.04
2.485 GHz	47.5 Pk	4.36 / 28.63 / 49.11 / 0.0	31.37	V / 1.00 / 165	-76.54	-63.54
2.769 GHz	49.6 Pk	4.53 / 29.41 / 48.26 / 0.0	35.27	V / 1.00 / 165	-72.64	-59.64
2.84 GHz	54.6 Pk	4.6 / 29.62 / 48.37 / 0.0	40.45	V / 1.00 / 165	-67.46	-54.46
2.911 GHz	50.4 Pk	4.67 / 29.82 / 48.48 / 0.0	36.42	V / 1.00 / 165	-71.49	-58.49
3.408 GHz	53.6 Pk	5.15 / 30.98 / 47.3 / 0.0	42.43	V / 1.00 / 165	-65.48	-52.48
3.552 GHz	71.1 Pk	5.39 / 31.32 / 47.16 / 0.0	60.65	V / 1.00 / 165	-47.26	-34.26
3.834 GHz	46.1 Pk	5.66 / 32.03 / 46.29 / 0.0	37.5	V / 1.00 / 165	-70.41	-57.41

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Test Report #: WC505745 Run 1 Test Area: LTS

EUT Model #: DGVL431110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "A & D" Bands

Data File Name: 5745-1re.dat

Page: 5 of 11

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
3.86 GHz	79.65 Pk	5.68 / 32.1 / 46.42 / 0.0	71.01	V / 1.00 / 165	-36.9	-23.9
3.976 GHz	47.4 Pk	5.84 / 32.39 / 46.09 / 0.0	39.54	V / 1.00 / 165	-68.37	-55.37
4.402 GHz	45.25 Pk	6.1 / 32.33 / 45.82 / 0.0	37.85	V / 1.00 / 165	-70.06	-57.06
4.615 GHz	47.2 Pk	6.2 / 32.55 / 45.15 / 0.0	40.8	V / 1.00 / 165	-67.11	-54.11
6.057 GHz	55.95 Pk	7.18 / 34.38 / 45.68 / 0.0	51.82	V / 1.00 / 165	-56.09	-43.09
12.114 GHz	48.9 Pk	10.54 / 39.15 / 45.17 / 0.0	53.42	V / 1.00 / 165	-54.49	-41.49
3.859 GHz maxed:						
3.86 GHz	85.9 Pk	5.68 / 32.1 / 46.42 / 0.0	77.26	V / 2.09 / 158	-30.65	-17.65
1.065 GHz	55.75 Pk	2.83 / 25.59 / 49.22 / 0.0	34.95	V / 2.09 / 158	-72.96	-59.96
1.136 GHz	64.35 Pk	2.93 / 25.51 / 49.55 / 0.0	43.23	V / 2.09 / 158	-64.68	-51.68
1.846 GHz	63.85 Pk	3.83 / 27.27 / 49.79 / 0.0	45.16	V / 2.09 / 158	-62.75	-49.75
3.124 GHz	50.5 Pk	4.87 / 30.35 / 47.17 / 0.0	38.56	V / 2.09 / 158	-69.35	-56.35
1.62 GHz maxed:						
1.622 GHz	90.95 Pk	3.54 / 25.86 / 49.55 / 0.0	70.8	H / 1.00 / 200	-37.11	-24.11
2.201 GHz	56.1 Pk	4.06 / 28.4 / 49.42 / 0.0	39.15	H / 1.00 / 200	-68.76	-55.76
2.698 GHz	57.6 Pk	4.48 / 29.21 / 48.26 / 0.0	43.03	H / 1.00 / 200	-64.88	-51.88
3.86 GHz maxed:						
3.86 GHz	86.3 Pk	5.68 / 32.1 / 46.42 / 0.0	77.66	H / 1.00 / 214	-30.25	-17.25
NOTE ! 1940 MHz setting:						
3880 MHz maxed:						
3.88 GHz	84.85 Pk	5.7 / 32.15 / 46.51 / 0.0	76.18	H / 1.22 / 85	-31.73	-18.73
1.491 GHz	65.7 Pk	3.42 / 25.11 / 49.8 / 0.0	44.43	H / 1.22 / 85	-63.48	-50.48
1.633 GHz	62.1 Pk	3.55 / 25.93 / 49.58 / 0.0	42.0	H / 1.22 / 85	-65.91	-52.91
3.55 GHz	46.3 Pk	5.38 / 31.32 / 47.17 / 0.0	35.83	H / 1.22 / 85	-72.08	-59.08

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Test Report #: WC505745 Run 1 Test Area: LTS

EUT Model #: DGVL431110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "A & D" Bands

Data File Name: 5745-1re.dat

Page: 6 of 11

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
5.82 GHz	53.9 Pk	6.99 / 34.26 / 45.84 / 0.0	49.31	H / 1.22 / 85	-58.6	-45.6
3.88 GHz maxed:						
3.88 GHz	85.5 Pk	5.7 / 32.15 / 46.51 / 0.0	76.83	V / 2.16 / 165	-31.08	-18.08
1.065 GHz	59.55 Pk	2.83 / 25.59 / 49.22 / 0.0	38.75	V / 2.16 / 165	-69.16	-56.16
1.136 GHz	66.45 Pk	2.93 / 25.51 / 49.55 / 0.0	45.33	V / 2.16 / 165	-62.58	-49.58
1.278 GHz	63.3 Pk	3.1 / 25.35 / 49.25 / 0.0	42.49	V / 2.16 / 165	-65.42	-52.42
1.988 GHz	56.35 Pk	3.9 / 28.17 / 49.65 / 0.0	38.76	V / 2.16 / 165	-69.15	-56.15
3.266 GHz	50.6 Pk	5.0 / 30.67 / 47.55 / 0.0	38.72	V / 2.16 / 165	-69.19	-56.19
3.552 GHz	76.05 Pk	5.39 / 31.32 / 47.16 / 0.0	65.6	V / 2.16 / 165	-42.31	-29.31
3.55 GHz maxed:						
3.552 GHz	79.2 Pk	5.39 / 31.32 / 47.16 / 0.0	68.75	V / 1.68 / 156	-39.16	-26.16
1.207 GHz	69.35 Pk	3.01 / 25.43 / 49.62 / 0.0	48.17	V / 1.68 / 156	-59.74	-46.74
3.88 GHz maxed:						
3.88 GHz	87.3 Pk	5.7 / 32.15 / 46.51 / 0.0	78.63	V / 1.45 / 156	-29.28	-16.28
1.633 GHz	67.0 Pk	3.55 / 25.93 / 49.58 / 0.0	46.9	V / 1.45 / 156	-61.01	-48.01
1.846 GHz	66.9 Pk	3.83 / 27.27 / 49.79 / 0.0	48.21	V / 1.45 / 156	-59.7	-46.7
3.88 GHz maxed:						
3.88 GHz	80.5 Pk	5.7 / 32.15 / 46.51 / 0.0	71.83	H / 1.00 / 169	-36.08	-23.08
2.84 GHz	58.1 Pk	4.6 / 29.62 / 48.37 / 0.0	43.95	H / 1.00 / 169	-63.96	-50.96
12.114 GHz	51.95 Pk	10.54 / 39.15 / 45.17 / 0.0	56.47	H / 1.00 / 169	-51.44	-38.44
NOTE: 1950 Tx setting:						
3.9 GHz	79.4 Pk	5.73 / 32.2 / 46.61 / 0.0	70.72	H / 1.20 / 94	-37.19	-24.19
3.9 GHz	76.85 Pk	5.73 / 32.2 / 46.61 / 0.0	68.17	V / 2.16 / 177	-39.74	-26.74
1.917 GHz	59.7 Pk	3.88 / 27.72 / 49.91 / 0.0	41.39	V / 2.16 / 177	-66.52	-53.52

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Test Report #: WC505745 Run 1 Test Area: LTS

EUT Model #: DGVL431110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "A & D" Bands

Data File Name: 5745-1re.dat

Page: 7 of 11

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
2.343 GHz	48.6 Pk	4.24 / 28.51 / 49.14 / 0.0	32.21	V / 2.16 / 177	-75.7	-62.7
1.775 GHz	64.5 Pk	3.74 / 26.83 / 49.67 / 0.0	45.4	H / 1.20 / 94	-62.51	-49.51
1.95 GHz	110.3 Pk	3.9 / 27.93 / 49.79 / 0.0	92.34	H / 1.20 / 94	-15.57	-2.57
Note 1950 MHz Tx setting						
44.82 MHz	45.85 Qp	0.6 / 15.35 / 27.06 / 0.0	34.74	H / 1.00 / 0	-73.17	-60.17
68.82 MHz	60.0 Qp	0.7 / 9.05 / 27.0 / 0.0	42.75	H / 1.00 / 0	-65.16	-52.16
133.663 MHz	48.8 Qp	1.0 / 7.97 / 27.0 / 0.0	30.77	H / 1.00 / 0	-77.14	-64.14
149.963 MHz	48.05 Qp	1.0 / 9.6 / 26.91 / 0.0	31.74	H / 1.00 / 0	-76.17	-63.17
345.748 MHz	45.85 Qp	1.6 / 14.51 / 27.6 / 0.0	34.36	H / 1.00 / 0	-73.55	-60.55
392.249 MHz	46.55 Qp	1.69 / 15.37 / 27.79 / 0.0	35.82	H / 1.00 / 0	-72.09	-59.09
709.994 MHz	49.25 Qp	2.3 / 20.2 / 27.95 / 0.0	43.8	H / 1.00 / 0	-64.11	-51.11
638.983 MHz	52.25 Qp	2.1 / 19.5 / 28.2 / 0.0	45.65	H / 1.00 / 0	-62.26	-49.26
567.984 MHz	52.0 Qp	2.03 / 18.42 / 28.1 / 0.0	44.35	H / 1.00 / 0	-63.56	-50.56
496.982 MHz	52.05 Qp	1.9 / 17.39 / 27.93 / 0.0	43.4	H / 1.00 / 0	-64.51	-51.51
425.986 MHz	44.95 Qp	1.71 / 16.18 / 27.9 / 0.0	34.94	H / 1.00 / 0	-72.97	-59.97
354.988 MHz	59.55 Qp	1.6 / 14.65 / 27.6 / 0.0	48.2	H / 1.00 / 0	-59.71	-46.71
283.99 MHz	55.25 Qp	1.5 / 12.56 / 27.43 / 0.0	41.88	H / 1.00 / 0	-66.03	-53.03
141.987 MHz	60.5 Qp	1.0 / 9.22 / 26.97 / 0.0	43.74	H / 1.00 / 0	-64.17	-51.17
212.987 MHz	50.3 Qp	1.21 / 10.53 / 27.11 / 0.0	34.93	H / 1.00 / 0	-72.98	-59.98
780.987 MHz	53.25 Qp	2.39 / 21.54 / 27.83 / 0.0	49.35	H / 1.00 / 0	-58.56	-45.56
922.987 MHz	39.9 Qp	2.63 / 22.46 / 27.6 / 0.0	37.39	H / 1.00 / 0	-70.52	-57.52
993.987 MHz	45.75 Qp	2.73 / 22.66 / 27.57 / 0.0	43.58	H / 1.00 / 0	-64.33	-51.33
Maximized 141.987 MHz (1950 MHz Tx setting)						
141.987 MHz	66.75 Qp	1.0 / 9.22 / 26.97 / 0.0	49.99	H / 1.00 / 120	-57.92	-44.92

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Test Report #: WC505745 Run 1 Test Area: LTS

EUT Model #: DGVL431110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "A & D" Bands

Data File Name: 5745-1re.dat

Page: 8 of 11

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
133.663 MHz	56.1 Qp	1.0 / 7.97 / 27.0 / 0.0	38.07	H / 1.00 / 120	-69.84	-56.84
212.987 MHz	57.1 Qp	1.21 / 10.53 / 27.11 / 0.0	41.73	H / 1.00 / 120	-66.18	-53.18
425.986 MHz	54.05 Qp	1.71 / 16.18 / 27.9 / 0.0	44.04	H / 1.00 / 120	-63.87	-50.87
567.984 MHz	59.3 Qp	2.03 / 18.42 / 28.1 / 0.0	51.65	H / 1.00 / 120	-56.26	-43.26
922.987 MHz	46.25 Qp	2.63 / 22.46 / 27.6 / 0.0	43.74	H / 1.00 / 120	-64.17	-51.17
Maximized 638.983 MHz (1950 MHz Tx setting)						
638.983 MHz	59.65 Qp	2.1 / 19.5 / 28.2 / 0.0	53.05	H / 1.00 / 130	-54.86	-41.86
68.82 MHz	63.2 Qp	0.7 / 9.05 / 27.0 / 0.0	45.95	H / 1.00 / 130	-61.96	-48.96
709.994 MHz	55.4 Qp	2.3 / 20.2 / 27.95 / 0.0	49.95	H / 1.00 / 130	-57.96	-44.96
Maximized 709.994 MHz (1950 MHz Tx setting)						
709.994 MHz	56.5 Qp	2.3 / 20.2 / 27.95 / 0.0	51.05	H / 1.00 / 25	-56.86	-43.86
Maximized 567.984 MHz (1950 MHz Tx setting)						
567.984 MHz	60.1 Qp	2.03 / 18.42 / 28.1 / 0.0	52.45	H / 1.00 / 180	-55.46	-42.46
283.99 MHz	60.3 Qp	1.5 / 12.56 / 27.43 / 0.0	46.93	H / 1.00 / 180	-60.98	-47.98
44.82 MHz	58.8 Qp	0.6 / 15.35 / 27.06 / 0.0	47.69	V / 1.00 / 0	-60.22	-47.22
68.82 MHz	64.3 Qp	0.7 / 9.05 / 27.0 / 0.0	47.05	V / 1.00 / 0	-60.86	-47.86
133.663 MHz	57.9 Qp	1.0 / 7.97 / 27.0 / 0.0	39.87	V / 1.00 / 0	-68.04	-55.04
149.963 MHz	49.95 Qp	1.0 / 9.6 / 26.91 / 0.0	33.64	V / 1.00 / 0	-74.27	-61.27

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Test Report #: WC505745 Run 1 Test Area: LTS

EUT Model #: DGVL431110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "A & D" Bands

Data File Name: 5745-1re.dat

Page: 9 of 11

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
425.986 MHz	61.3 Qp	1.71 / 16.18 / 27.9 / 0.0	51.29	V / 1.00 / 0	-56.62	-43.62
68.82 MHz	65.0 Qp	0.7 / 9.05 / 27.0 / 0.0	47.75	V / 1.00 / 45	-60.16	-47.16
425.986 MHz	61.35 Qp	1.71 / 16.18 / 27.9 / 0.0	51.34	V / 1.00 / 45	-56.57	-43.57
68.82 MHz	66.0 Qp	0.7 / 9.05 / 27.0 / 0.0	48.75	V / 1.00 / 90	-59.16	-46.16
425.986 MHz	61.9 Qp	1.71 / 16.18 / 27.9 / 0.0	51.89	V / 1.00 / 90	-56.02	-43.02
68.82 MHz	66.55 Qp	0.7 / 9.05 / 27.0 / 0.0	49.3	V / 1.00 / 135	-58.61	-45.61
133.663 MHz	58.85 Qp	1.0 / 7.97 / 27.0 / 0.0	40.82	V / 1.00 / 135	-67.09	-54.09
496.982 MHz	52.75 Qp	1.9 / 17.39 / 27.93 / 0.0	44.1	V / 1.00 / 135	-63.81	-50.81
709.994 MHz	56.9 Qp	2.3 / 20.2 / 27.95 / 0.0	51.45	V / 1.00 / 135	-56.46	-43.46
922.987 MHz	52.5 Qp	2.63 / 22.46 / 27.6 / 0.0	49.99	V / 1.00 / 135	-57.92	-44.92
993.987 MHz	51.85 Qp	2.73 / 22.66 / 27.57 / 0.0	49.68	V / 1.00 / 135	-58.23	-45.23
68.82 MHz	67.75 Qp	0.7 / 9.05 / 27.0 / 0.0	50.5	V / 1.00 / 180	-57.41	-44.41
149.963 MHz	50.85 Qp	1.0 / 9.6 / 26.91 / 0.0	34.54	V / 1.00 / 180	-73.37	-60.37
425.986 MHz	62.65 Qp	1.71 / 16.18 / 27.9 / 0.0	52.64	V / 1.00 / 180	-55.27	-42.27
709.994 MHz	58.05 Qp	2.3 / 20.2 / 27.95 / 0.0	52.6	V / 1.00 / 180	-55.31	-42.31
141.987 MHz	66.85 Qp	1.0 / 9.22 / 26.97 / 0.0	50.09	V / 1.00 / 225	-57.82	-44.82
149.963 MHz	51.8 Qp	1.0 / 9.6 / 26.91 / 0.0	35.49	V / 1.00 / 225	-72.42	-59.42
392.249 MHz	47.45 Qp	1.69 / 15.37 / 27.79 / 0.0	36.72	V / 1.00 / 225	-71.19	-58.19
425.986 MHz	64.65 Qp	1.71 / 16.18 / 27.9 / 0.0	54.64	V / 1.00 / 225	-53.27	-40.27
993.987 MHz	53.0 Qp	2.73 / 22.66 / 27.57 / 0.0	50.83	V / 1.00 / 225	-57.08	-44.08
496.982 MHz	54.1 Qp	1.9 / 17.39 / 27.93 / 0.0	45.45	V / 1.00 / 315	-62.46	-49.46

Maximized Vertical frequencies 30-1000 MHz (1950 MHz Tx setting)

425.986 MHz	66.5 Qp	1.71 / 16.18 / 27.9 / 0.0	56.49	V / 1.00 / 220	-51.42	-38.42
709.994 MHz	58.95 Qp	2.3 / 20.2 / 27.95 / 0.0	53.5	V / 1.00 / 160	-54.41	-41.41
993.987 MHz	56.65 Qp	2.73 / 22.66 / 27.57 / 0.0	54.48	V / 1.00 / 250	-53.43	-40.43

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Test Report #: WC505745 Run 1 Test Area: LTS

EUT Model #: DGVL431110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "A & D" Bands

Data File Name: 5745-1re.dat

Page: 10 of 11

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
68.82 MHz	68.45 Qp	0.7 / 9.05 / 27.0 / 0.0	51.2	V / 1.00 / 180	-56.71	-43.71
141.987 MHz	67.65 Qp	1.0 / 9.22 / 26.97 / 0.0	50.89	V / 1.00 / 180	-57.02	-44.02
Note 1940 MHz Tx setting						
Maximized Vertical frequencies 30-1000 MHz (1940 MHz Tx setting)						
425.986 MHz	65.7 Qp	1.71 / 16.18 / 27.9 / 0.0	55.69	V / 1.00 / 235	-52.22	-39.22
709.994 MHz	58.6 Qp	2.3 / 20.2 / 27.95 / 0.0	53.15	V / 1.00 / 175	-54.76	-41.76
Maximized Horizontal frequencies 30-1000 MHz (1940 MHz Tx setting)						
638.983 MHz	60.9 Qp	2.1 / 19.5 / 28.2 / 0.0	54.3	H / 1.00 / 135	-53.61	-40.61
141.987 MHz	63.3 Qp	1.0 / 9.22 / 26.97 / 0.0	46.54	H / 1.00 / 140	-61.37	-48.37
Note 1930 MHz Tx setting						
Maximized Horizontal frequencies 30-1000 MHz (1930 MHz Tx setting)						
141.987 MHz	62.1 Qp	1.0 / 9.22 / 26.97 / 0.0	45.34	H / 1.00 / 140	-62.57	-49.57
638.983 MHz	60.45 Qp	2.1 / 19.5 / 28.2 / 0.0	53.85	H / 1.00 / 135	-54.06	-41.06
Maximized Vertical frequencies 30-1000 MHz (1930 MHz Tx setting)						
709.994 MHz	59.7 Qp	2.3 / 20.2 / 27.95 / 0.0	54.25	V / 1.00 / 155	-53.66	-40.66
425.986 MHz	65.8 Qp	1.71 / 16.18 / 27.9 / 0.0	55.79	V / 1.00 / 220	-52.12	-39.12

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Test Report #: WC505745 Run 1 Test Area: LTS

EUT Model #: DGVL431110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

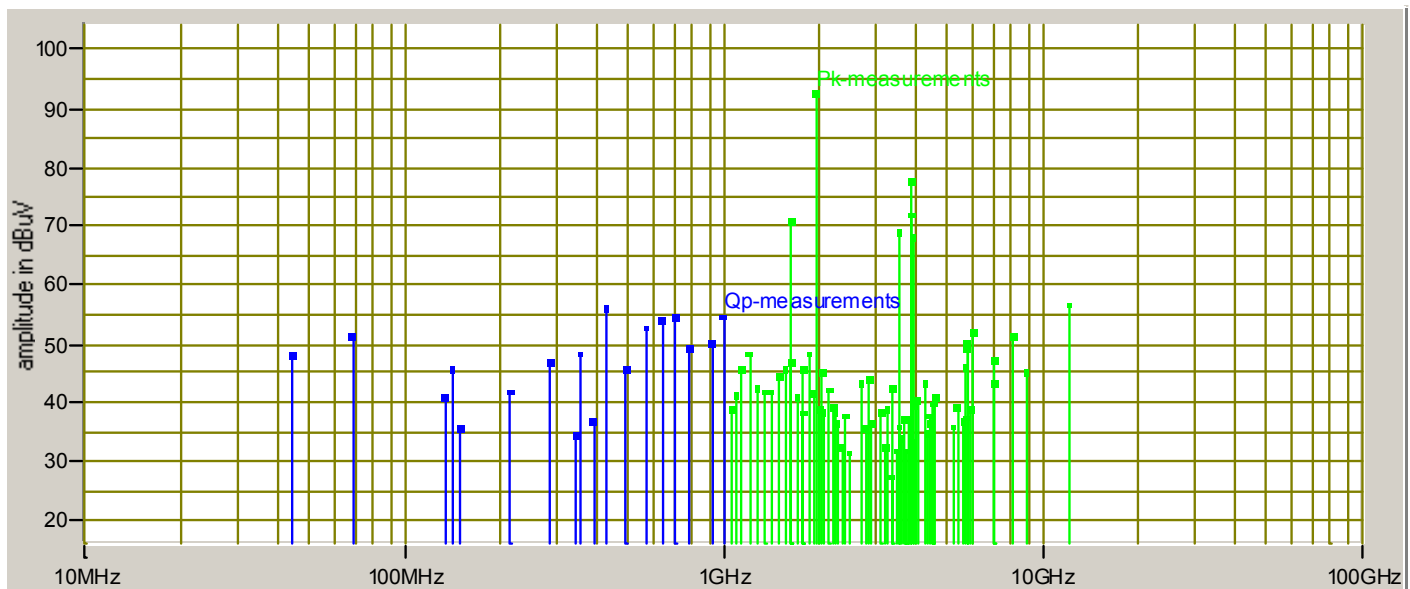
Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "A & D" Bands

Data File Name: 5745-1re.dat Page: 11 of 11

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RADIATED EMISSIONS



Test Report #: WC505745 Run 2 Test Area: LTS

EUT Model #: DGVL441110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "D,B & E " Bands

Data File Name: 5745-2re.dat

Page: 1 of 10

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
44.82 MHz	61.35 Qp	0.6 / 15.35 / 27.06 / 0.0	50.24	V / 1.00 / 0	-57.67	-44.67
68.82 MHz	56.5 Qp	0.7 / 9.05 / 27.0 / 0.0	39.25	V / 1.00 / 0	-68.66	-55.66
76.0 MHz	57.95 Qp	0.73 / 7.58 / 26.97 / 0.0	39.28	V / 1.00 / 0	-68.63	-55.63
133.663 MHz	51.05 Qp	1.0 / 7.97 / 27.0 / 0.0	33.02	V / 1.00 / 0	-74.89	-61.89
141.987 MHz	59.95 Qp	1.0 / 9.22 / 26.97 / 0.0	43.19	V / 1.00 / 0	-64.72	-51.72
149.963 MHz	41.5 Qp	1.0 / 9.6 / 26.91 / 0.0	25.19	V / 1.00 / 0	-82.72	-69.72
162.61 MHz	49.75 Qp	1.02 / 8.7 / 27.0 / 0.0	32.47	V / 1.00 / 0	-75.44	-62.44
212.987 MHz	53.6 Qp	1.21 / 10.53 / 27.11 / 0.0	38.23	V / 1.00 / 0	-69.68	-56.68
283.99 MHz	57.7 Qp	1.5 / 12.56 / 27.43 / 0.0	44.33	V / 1.00 / 0	-63.58	-50.58
345.748 MHz	41.5 Qp	1.6 / 14.51 / 27.6 / 0.0	30.01	V / 1.00 / 0	-77.9	-64.9
354.988 MHz	46.15 Qp	1.6 / 14.65 / 27.6 / 0.0	34.8	V / 1.00 / 0	-73.11	-60.11
392.249 MHz	37.75 Qp	1.69 / 15.37 / 27.79 / 0.0	27.02	V / 1.00 / 0	-80.89	-67.89
425.986 MHz	63.9 Qp	1.71 / 16.18 / 27.9 / 0.0	53.89	V / 1.00 / 0	-54.02	-41.02
496.982 MHz	53.6 Qp	1.9 / 17.39 / 27.93 / 0.0	44.95	V / 1.00 / 0	-62.96	-49.96
567.984 MHz	47.25 Qp	2.03 / 18.42 / 28.1 / 0.0	39.6	V / 1.00 / 0	-68.31	-55.31
638.983 MHz	39.75 Qp	2.1 / 19.5 / 28.2 / 0.0	33.15	V / 1.00 / 0	-74.76	-61.76
709.994 MHz	46.45 Qp	2.3 / 20.2 / 27.95 / 0.0	41.0	V / 1.00 / 0	-66.91	-53.91
780.987 MHz	41.4 Qp	2.39 / 21.54 / 27.83 / 0.0	37.5	V / 1.00 / 0	-70.41	-57.41
922.987 MHz	40.6 Qp	2.63 / 22.46 / 27.6 / 0.0	38.09	V / 1.00 / 0	-69.82	-56.82
993.987 MHz	43.05 Qp	2.73 / 22.66 / 27.57 / 0.0	40.88	V / 1.00 / 0	-67.03	-54.03
141.987 MHz	61.7 Qp	1.0 / 9.22 / 26.97 / 0.0	44.94	V / 1.00 / 45	-62.97	-49.97
212.987 MHz	60.3 Qp	1.21 / 10.53 / 27.11 / 0.0	44.93	V / 1.00 / 45	-62.98	-49.98
345.748 MHz	42.5 Qp	1.6 / 14.51 / 27.6 / 0.0	31.01	V / 1.00 / 45	-76.9	-63.9
354.988 MHz	56.9 Qp	1.6 / 14.65 / 27.6 / 0.0	45.55	V / 1.00 / 45	-62.36	-49.36
392.249 MHz	38.55 Qp	1.69 / 15.37 / 27.79 / 0.0	27.82	V / 1.00 / 45	-80.09	-67.09

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RADIATED EMISSIONS



Test Report #: WC505745 Run 2 Test Area: LTS

EUT Model #: DGVL441110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "D,B & E " Bands

Data File Name: 5745-2re.dat

Page: 2 of 10

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
425.986 MHz	70.3 Qp	1.71 / 16.18 / 27.9 / 0.0	60.29	V / 1.00 / 45	-47.62	-34.62
496.982 MHz	55.15 Qp	1.9 / 17.39 / 27.93 / 0.0	46.5	V / 1.00 / 45	-61.41	-48.41
567.984 MHz	49.15 Qp	2.03 / 18.42 / 28.1 / 0.0	41.5	V / 1.00 / 45	-66.41	-53.41
638.983 MHz	52.65 Qp	2.1 / 19.5 / 28.2 / 0.0	46.05	V / 1.00 / 45	-61.86	-48.86
709.994 MHz	57.3 Qp	2.3 / 20.2 / 27.95 / 0.0	51.85	V / 1.00 / 45	-56.06	-43.06
780.987 MHz	48.75 Qp	2.39 / 21.54 / 27.83 / 0.0	44.85	V / 1.00 / 45	-63.06	-50.06
68.82 MHz	56.55 Qp	0.7 / 9.05 / 27.0 / 0.0	39.3	V / 1.00 / 90	-68.61	-55.61
149.963 MHz	43.45 Qp	1.0 / 9.6 / 26.91 / 0.0	27.14	V / 1.00 / 90	-80.77	-67.77
638.983 MHz	55.35 Qp	2.1 / 19.5 / 28.2 / 0.0	48.75	V / 1.00 / 90	-59.16	-46.16
922.987 MHz	43.95 Qp	2.63 / 22.46 / 27.6 / 0.0	41.44	V / 1.00 / 90	-66.47	-53.47
993.987 MHz	46.4 Qp	2.73 / 22.66 / 27.57 / 0.0	44.23	V / 1.00 / 90	-63.68	-50.68
68.82 MHz	57.6 Qp	0.7 / 9.05 / 27.0 / 0.0	40.35	V / 1.00 / 135	-67.56	-54.56
162.61 MHz	51.35 Qp	1.02 / 8.7 / 27.0 / 0.0	34.07	V / 1.00 / 135	-73.84	-60.84
345.748 MHz	43.4 Qp	1.6 / 14.51 / 27.6 / 0.0	31.91	V / 1.00 / 135	-76	-63
392.249 MHz	41.7 Qp	1.69 / 15.37 / 27.79 / 0.0	30.97	V / 1.00 / 135	-76.94	-63.94
496.982 MHz	56.85 Qp	1.9 / 17.39 / 27.93 / 0.0	48.2	V / 1.00 / 135	-59.71	-46.71
922.987 MHz	46.25 Qp	2.63 / 22.46 / 27.6 / 0.0	43.74	V / 1.00 / 135	-64.17	-51.17
993.987 MHz	52.35 Qp	2.73 / 22.66 / 27.57 / 0.0	50.18	V / 1.00 / 135	-57.73	-44.73
68.82 MHz	58.55 Qp	0.7 / 9.05 / 27.0 / 0.0	41.3	V / 1.00 / 180	-66.61	-53.61
162.61 MHz	53.25 Qp	1.02 / 8.7 / 27.0 / 0.0	35.97	V / 1.00 / 180	-71.94	-58.94
212.987 MHz	61.9 Qp	1.21 / 10.53 / 27.11 / 0.0	46.53	V / 1.00 / 180	-61.38	-48.38
345.748 MHz	48.3 Qp	1.6 / 14.51 / 27.6 / 0.0	36.81	V / 1.00 / 180	-71.1	-58.1
392.249 MHz	42.75 Qp	1.69 / 15.37 / 27.79 / 0.0	32.02	V / 1.00 / 180	-75.89	-62.89

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Test Report #: WC505745 Run 2 Test Area: LTS

EUT Model #: DGVL441110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "D,B & E " Bands

Data File Name: 5745-2re.dat

Page: 3 of 10

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
567.984 MHz	52.75 Qp	2.03 / 18.42 / 28.1 / 0.0	45.1	V / 1.00 / 180	-62.81	-49.81
780.987 MHz	54.55 Qp	2.39 / 21.54 / 27.83 / 0.0	50.65	V / 1.00 / 180	-57.26	-44.26
149.963 MHz	45.85 Qp	1.0 / 9.6 / 26.91 / 0.0	29.54	V / 1.00 / 225	-78.37	-65.37
425.986 MHz	72.4 Qp	1.71 / 16.18 / 27.9 / 0.0	62.39	V / 1.00 / 225	-45.52	-32.52
780.987 MHz	58.4 Qp	2.39 / 21.54 / 27.83 / 0.0	54.5	V / 1.00 / 225	-53.41	-40.41
141.987 MHz	61.85 Qp	1.0 / 9.22 / 26.97 / 0.0	45.09	V / 1.00 / 270	-62.82	-49.82
638.983 MHz	55.9 Qp	2.1 / 19.5 / 28.2 / 0.0	49.3	V / 1.00 / 270	-58.61	-45.61
345.748 MHz	48.85 Qp	1.6 / 14.51 / 27.6 / 0.0	37.36	H / 1.00 / 0	-70.55	-57.55
354.988 MHz	64.8 Qp	1.6 / 14.65 / 27.6 / 0.0	53.45	H / 1.00 / 0	-54.46	-41.46
283.99 MHz	62.4 Qp	1.5 / 12.56 / 27.43 / 0.0	49.03	H / 1.00 / 45	-58.88	-45.88
345.748 MHz	49.95 Qp	1.6 / 14.51 / 27.6 / 0.0	38.46	H / 1.00 / 45	-69.45	-56.45
922.987 MHz	46.75 Qp	2.63 / 22.46 / 27.6 / 0.0	44.24	H / 1.00 / 45	-63.67	-50.67
283.99 MHz	66.7 Qp	1.5 / 12.56 / 27.43 / 0.0	53.33	H / 1.00 / 90	-54.58	-41.58
709.994 MHz	60.0 Qp	2.3 / 20.2 / 27.95 / 0.0	54.55	H / 1.00 / 90	-53.36	-40.36
780.987 MHz	61.5 Qp	2.39 / 21.54 / 27.83 / 0.0	57.6	H / 1.00 / 90	-50.31	-37.31
567.984 MHz	56.2 Qp	2.03 / 18.42 / 28.1 / 0.0	48.55	H / 1.00 / 135	-59.36	-46.36
922.987 MHz	48.4 Qp	2.63 / 22.46 / 27.6 / 0.0	45.89	H / 1.00 / 135	-62.02	-49.02
212.987 MHz	63.7 Qp	1.21 / 10.53 / 27.11 / 0.0	48.33	H / 1.00 / 225	-59.58	-46.58
Maximized Vertical frequencies 30-1000 MHz (1945 MHz Tx setting)						
141.987 MHz	64.05 Qp	1.0 / 9.22 / 26.97 / 0.0	47.29	V / 1.00 / 0	-60.62	-47.62
425.986 MHz	74.2 Qp	1.71 / 16.18 / 27.9 / 0.0	64.19	V / 1.00 / 255	-43.72	-30.72

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Test Report #: WC505745 Run 2 Test Area: LTS

EUT Model #: DGVL441110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "D,B & E " Bands

Data File Name: 5745-2re.dat

Page: 4 of 10

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
638.983 MHz	58.1 Qp	2.1 / 19.5 / 28.2 / 0.0	51.5	V / 1.00 / 255	-56.41	-43.41
780.987 MHz	61.6 Qp	2.39 / 21.54 / 27.83 / 0.0	57.7	V / 1.00 / 220	-50.21	-37.21
Maximized Horizontal frequencies 30-1000 MHz (1945 MHz Tx setting)						
283.99 MHz	66.6 Qp	1.5 / 12.56 / 27.43 / 0.0	53.23	H / 1.00 / 80	-54.68	-41.68
354.988 MHz	64.95 Qp	1.6 / 14.65 / 27.6 / 0.0	53.6	H / 1.00 / 0	-54.31	-41.31
Maximized Vertical frequencies 30-1000 MHz (1957.5 MHz Tx setting)						
141.987 MHz	63.45 Qp	1.0 / 9.22 / 26.97 / 0.0	46.69	V / 1.00 / 0	-61.22	-48.22
425.986 MHz	73.3 Qp	1.71 / 16.18 / 27.9 / 0.0	63.29	V / 1.00 / 245	-44.62	-31.62
638.983 MHz	57.65 Qp	2.1 / 19.5 / 28.2 / 0.0	51.05	V / 1.00 / 245	-56.86	-43.86
780.987 MHz	61.4 Qp	2.39 / 21.54 / 27.83 / 0.0	57.5	V / 1.00 / 220	-50.41	-37.41
Maximized Horizontal frequencies 30-1000 MHz (1957.5 MHz TX setting)						
283.99 MHz	66.8 Qp	1.5 / 12.56 / 27.43 / 0.0	53.43	H / 1.00 / 80	-54.48	-41.48
354.988 MHz	64.6 Qp	1.6 / 14.65 / 27.6 / 0.0	53.25	H / 1.00 / 0	-54.66	-41.66
Maximized Vertical frequencies 30-1000 MHz (1970 MHz TX setting)						
141.987 MHz	63.3 Qp	1.0 / 9.22 / 26.97 / 0.0	46.54	V / 1.00 / 0	-61.37	-48.37
425.986 MHz	73.75 Qp	1.71 / 16.18 / 27.9 / 0.0	63.74	V / 1.00 / 245	-44.17	-31.17
638.983 MHz	57.8 Qp	2.1 / 19.5 / 28.2 / 0.0	51.2	V / 1.00 / 260	-56.71	-43.71
780.987 MHz	62.85 Qp	2.39 / 21.54 / 27.83 / 0.0	58.95	V / 1.00 / 215	-48.96	-35.96
Maximized Horizontal frequencies 30-1000 MHz (1970 MHz TX setting)						
283.99 MHz	67.4 Qp	1.5 / 12.56 / 27.43 / 0.0	54.03	H / 1.00 / 85	-53.88	-40.88
354.988 MHz	64.1 Qp	1.6 / 14.65 / 27.6 / 0.0	52.75	H / 1.00 / 0	-55.16	-42.16

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Test Report #: WC505745 Run 2 Test Area: LTS

EUT Model #: DGVL441110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "D,B & E " Bands

Data File Name: 5745-2re.dat

Page: 5 of 10

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
Note 1970 MHz TX setting						
1.065 GHz	55.3 Pk	2.83 / 25.59 / 49.22 / 0.0	34.5	V / 1.00 / 0	-73.41	-60.41
1.97 GHz	91.85 Pk	3.9 / 28.05 / 49.72 / 0.0	74.08	V / 1.00 / 0	-33.83	-20.83
3.94 GHz	56.0 Pk	5.79 / 32.3 / 46.33 / 0.0	47.75	V / 1.00 / 0	-60.16	-47.16
5.91 GHz	57.55 Pk	7.05 / 34.31 / 45.16 / 0.0	53.74	V / 1.00 / 0	-54.17	-41.17
1.136 GHz	59.95 Pk	2.93 / 25.51 / 49.55 / 0.0	38.83	V / 1.00 / 0	-69.08	-56.08
1.207 GHz	60.7 Pk	3.01 / 25.43 / 49.62 / 0.0	39.52	V / 1.00 / 0	-68.39	-55.39
1.278 GHz	57.55 Pk	3.1 / 25.35 / 49.25 / 0.0	36.74	V / 1.00 / 0	-71.17	-58.17
1.349 GHz	61.35 Pk	3.18 / 25.27 / 49.37 / 0.0	40.42	V / 1.00 / 0	-67.49	-54.49
1.42 GHz	65.8 Pk	3.3 / 25.19 / 49.65 / 0.0	44.63	V / 1.00 / 0	-63.28	-50.28
1.491 GHz	63.45 Pk	3.42 / 25.11 / 49.8 / 0.0	42.18	V / 1.00 / 0	-65.73	-52.73
1.562 GHz	64.15 Pk	3.49 / 25.49 / 49.62 / 0.0	43.51	V / 1.00 / 0	-64.4	-51.4
1.622 GHz	85.25 Pk	3.54 / 25.86 / 49.55 / 0.0	65.1	V / 1.00 / 0	-42.81	-29.81
1.633 GHz	62.25 Pk	3.55 / 25.93 / 49.58 / 0.0	42.15	V / 1.00 / 0	-65.76	-52.76
1.704 GHz	59.3 Pk	3.62 / 26.38 / 49.76 / 0.0	39.54	V / 1.00 / 0	-68.37	-55.37
1.775 GHz	55.25 Pk	3.74 / 26.83 / 49.67 / 0.0	36.15	V / 1.00 / 0	-71.76	-58.76
1.846 GHz	53.8 Pk	3.83 / 27.27 / 49.79 / 0.0	35.11	V / 1.00 / 0	-72.8	-59.8
1.917 GHz	59.4 Pk	3.88 / 27.72 / 49.91 / 0.0	41.09	V / 1.00 / 0	-66.82	-53.82
1.988 GHz	52.35 Pk	3.9 / 28.17 / 49.65 / 0.0	34.76	V / 1.00 / 0	-73.15	-60.15
2.059 GHz	49.5 Pk	3.9 / 28.29 / 49.49 / 0.0	32.2	V / 1.00 / 0	-75.71	-62.71
2.13 GHz	57.3 Pk	3.97 / 28.34 / 49.41 / 0.0	40.21	V / 1.00 / 0	-67.7	-54.7
2.272 GHz	46.4 Pk	4.15 / 28.46 / 49.07 / 0.0	29.94	V / 1.00 / 0	-77.97	-64.97
2.698 GHz	46.55 Pk	4.48 / 29.21 / 48.26 / 0.0	31.98	V / 1.00 / 0	-75.93	-62.93
2.769 GHz	45.65 Pk	4.53 / 29.41 / 48.26 / 0.0	31.32	V / 1.00 / 0	-76.59	-63.59
2.84 GHz	46.0 Pk	4.6 / 29.62 / 48.37 / 0.0	31.85	V / 1.00 / 0	-76.06	-63.06

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Test Report #: WC505745 Run 2 Test Area: LTS

EUT Model #: DGVL441110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "D,B & E " Bands

Data File Name: 5745-2re.dat

Page: 6 of 10

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
3.124 GHz	46.6 Pk	4.87 / 30.35 / 47.17 / 0.0	34.66	V / 1.00 / 0	-73.25	-60.25
3.195 GHz	44.9 Pk	4.94 / 30.51 / 47.65 / 0.0	32.7	V / 1.00 / 0	-75.21	-62.21
3.266 GHz	46.2 Pk	5.0 / 30.67 / 47.55 / 0.0	34.32	V / 1.00 / 0	-73.59	-60.59
3.408 GHz	46.0 Pk	5.15 / 30.98 / 47.3 / 0.0	34.83	V / 1.00 / 0	-73.08	-60.08
3.692 GHz	50.5 Pk	5.56 / 31.67 / 46.95 / 0.0	40.77	V / 1.00 / 0	-67.14	-54.14
3.834 GHz	45.1 Pk	5.66 / 32.03 / 46.29 / 0.0	36.5	V / 1.00 / 0	-71.41	-58.41
3.905 GHz	42.7 Pk	5.74 / 32.21 / 46.58 / 0.0	34.07	V / 1.00 / 0	-73.84	-60.84
3.94 GHz	57.55 Pk	5.79 / 32.3 / 46.33 / 0.0	49.3	V / 1.00 / 0	-58.61	-45.61
3.976 GHz	46.8 Pk	5.84 / 32.39 / 46.09 / 0.0	38.94	V / 1.00 / 0	-68.97	-55.97
4.26 GHz	46.85 Pk	6.1 / 32.37 / 46.03 / 0.0	39.29	V / 1.00 / 0	-68.62	-55.62
4.402 GHz	47.85 Pk	6.1 / 32.33 / 45.82 / 0.0	40.45	V / 1.00 / 0	-67.46	-54.46
4.544 GHz	44.7 Pk	6.15 / 32.39 / 45.32 / 0.0	37.92	V / 1.00 / 0	-69.99	-56.99
5.396 GHz	41.15 Pk	6.74 / 33.94 / 44.76 / 0.0	37.07	V / 1.00 / 0	-70.84	-57.84
5.68 GHz	45.05 Pk	6.91 / 34.18 / 45.3 / 0.0	40.84	V / 1.00 / 0	-67.07	-54.07
5.91 GHz	56.95 Pk	7.05 / 34.31 / 45.16 / 0.0	53.14	V / 1.00 / 0	-54.77	-41.77
1.065 GHz	57.85 Pk	2.83 / 25.59 / 49.22 / 0.0	37.05	H / 1.00 / 0	-70.86	-57.86
1.136 GHz	61.1 Pk	2.93 / 25.51 / 49.55 / 0.0	39.98	H / 1.00 / 0	-67.93	-54.93
1.207 GHz	68.5 Pk	3.01 / 25.43 / 49.62 / 0.0	47.32	H / 1.00 / 0	-60.59	-47.59
1.278 GHz	69.25 Pk	3.1 / 25.35 / 49.25 / 0.0	48.44	H / 1.00 / 0	-59.47	-46.47
1.349 GHz	63.6 Pk	3.18 / 25.27 / 49.37 / 0.0	42.67	H / 1.00 / 0	-65.24	-52.24
1.42 GHz	62.05 Pk	3.3 / 25.19 / 49.65 / 0.0	40.88	H / 1.00 / 0	-67.03	-54.03
1.491 GHz	63.55 Pk	3.42 / 25.11 / 49.8 / 0.0	42.28	H / 1.00 / 0	-65.63	-52.63
1.562 GHz	62.65 Pk	3.49 / 25.49 / 49.62 / 0.0	42.01	H / 1.00 / 0	-65.9	-52.9
1.622 GHz	75.95 Pk	3.54 / 25.86 / 49.55 / 0.0	55.8	H / 1.00 / 0	-52.11	-39.11
1.633 GHz	63.75 Pk	3.55 / 25.93 / 49.58 / 0.0	43.65	H / 1.00 / 0	-64.26	-51.26

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RADIATED EMISSIONS



Test Report #: WC505745 Run 2 Test Area: LTS

EUT Model #: DGVL441110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "D,B & E " Bands

Data File Name: 5745-2re.dat

Page: 7 of 10

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
1.704 GHz	57.0 Pk	3.62 / 26.38 / 49.76 / 0.0	37.24	H / 1.00 / 0	-70.67	-57.67
1.775 GHz	61.8 Pk	3.74 / 26.83 / 49.67 / 0.0	42.7	H / 1.00 / 0	-65.21	-52.21
1.846 GHz	56.75 Pk	3.83 / 27.27 / 49.79 / 0.0	38.06	H / 1.00 / 0	-69.85	-56.85
1.917 GHz	54.95 Pk	3.88 / 27.72 / 49.91 / 0.0	36.64	H / 1.00 / 0	-71.27	-58.27
1.97 GHz	98.15 Pk	3.9 / 28.05 / 49.72 / 0.0	80.38	H / 1.00 / 0	-27.53	-14.53
1.988 GHz	57.05 Pk	3.9 / 28.17 / 49.65 / 0.0	39.46	H / 1.00 / 0	-68.45	-55.45
2.344 GHz	55.25 Pk	4.24 / 28.51 / 49.15 / 0.0	38.86	H / 1.00 / 0	-69.05	-56.05
3.408 GHz	53.85 Pk	5.15 / 30.98 / 47.3 / 0.0	42.68	H / 1.00 / 0	-65.23	-52.23
3.55 GHz	50.9 Pk	5.38 / 31.32 / 47.17 / 0.0	40.43	H / 1.00 / 0	-67.48	-54.48
3.94 GHz	59.6 Pk	5.79 / 32.3 / 46.33 / 0.0	51.35	H / 1.00 / 0	-56.56	-43.56
4.26 GHz	50.65 Pk	6.1 / 32.37 / 46.03 / 0.0	43.09	H / 1.00 / 0	-64.82	-51.82
4.544 GHz	52.55 Pk	6.15 / 32.39 / 45.32 / 0.0	45.77	H / 1.00 / 0	-62.14	-49.14
5.609 GHz	49.3 Pk	6.87 / 34.14 / 45.45 / 0.0	44.86	H / 1.00 / 0	-63.05	-50.05
5.68 GHz	55.55 Pk	6.91 / 34.18 / 45.3 / 0.0	51.34	H / 1.00 / 0	-56.57	-43.57
5.91 GHz	62.45 Pk	7.05 / 34.31 / 45.16 / 0.0	58.64	H / 1.00 / 0	-49.27	-36.27
Maximized Vertical frequencies 1-19 GHz (1970 Mhz TX setting)						
1.622 GHz	89.55 Pk	3.54 / 25.86 / 49.55 / 0.0	69.4	V / 1.30 / 160	-38.51	-25.51
3.94 GHz	84.4 Pk	5.79 / 32.3 / 46.33 / 0.0	76.15	V / 1.30 / 140	-31.76	-18.76
5.91 GHz	59.8 Pk	7.05 / 34.31 / 45.16 / 0.0	55.99	V / 1.30 / 170	-51.92	-38.92
Maximized Horizontal frequencies 1-19 GHz (1970 MHz TX setting)						
1.622 GHz	88.6 Pk	3.54 / 25.86 / 49.55 / 0.0	68.45	H / 1.00 / 100	-39.46	-26.46
3.94 GHz	83.15 Pk	5.79 / 32.3 / 46.33 / 0.0	74.9	H / 1.00 / 185	-33.01	-20.01
5.91 GHz	64.2 Pk	7.05 / 34.31 / 45.16 / 0.0	60.39	H / 1.00 / 185	-47.52	-34.52

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RADIATED EMISSIONS



Test Report #: WC505745 Run 2 Test Area: LTS

EUT Model #: DGVL441110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "D,B & E " Bands

Data File Name: 5745-2re.dat Page: 8 of 10

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
Note 1957.5 MHz TX setting						
1.958 GHz	102.8 Pk	3.9 / 27.97 / 49.76 / 0.0	84.91	H / 1.65 / 0	-23	-10
3.915 GHz	61.25 Pk	5.75 / 32.23 / 46.51 / 0.0	52.73	H / 1.00 / 0	-55.18	-42.18
5.873 GHz	62.25 Pk	7.02 / 34.29 / 45.35 / 0.0	58.21	H / 1.00 / 0	-49.7	-36.7
1.958 GHz	102.75 Pk	3.9 / 27.97 / 49.76 / 0.0	84.86	V / 1.15 / 0	-23.05	-10.05
1.635 GHz	80.65 Pk	3.55 / 25.94 / 49.59 / 0.0	60.56	V / 1.15 / 0	-47.35	-34.35
3.915 GHz	64.2 Pk	5.75 / 32.23 / 46.51 / 0.0	55.68	V / 1.15 / 0	-52.23	-39.23
5.873 GHz	56.45 Pk	7.02 / 34.29 / 45.35 / 0.0	52.41	V / 1.15 / 0	-55.5	-42.5
Maximized Vertical frequencies 1-19 GHz (1957.5 MHz TX setting)						
5.873 GHz	65.25 Pk	7.02 / 34.29 / 45.35 / 0.0	61.21	V / 1.33 / 130	-46.7	-33.7
1.635 GHz	83.25 Pk	3.55 / 25.94 / 49.59 / 0.0	63.16	V / 1.00 / 165	-44.75	-31.75
3.915 GHz	76.9 Pk	5.75 / 32.23 / 46.51 / 0.0	68.38	V / 1.06 / 142	-39.53	-26.53
Maximized Horizontal frequencies 1-19 GHz (1957.5 MHz TX setting)						
1.635 GHz	89.2 Pk	3.55 / 25.94 / 49.59 / 0.0	69.11	H / 1.00 / 80	-38.8	-25.8
3.915 GHz	87.65 Pk	5.75 / 32.23 / 46.51 / 0.0	79.13	H / 1.15 / 195	-28.78	-15.78
5.873 GHz	63.15 Pk	7.02 / 34.29 / 45.35 / 0.0	59.11	H / 1.40 / 0	-48.8	-35.8
Note 1945 MHz TX setting						
1.945 GHz	104.65 Pk	3.9 / 27.9 / 49.81 / 0.0	86.64	H / 1.90 / 0	-21.27	-8.27
1.633 GHz	65.7 Pk	3.55 / 25.93 / 49.58 / 0.0	45.6	H / 1.60 / 0	-62.31	-49.31
3.89 GHz	68.7 Pk	5.71 / 32.17 / 46.56 / 0.0	60.02	H / 1.50 / 0	-47.89	-34.89
5.835 GHz	61.3 Pk	7.0 / 34.27 / 45.7 / 0.0	56.87	H / 1.30 / 0	-51.04	-38.04

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Test Report #: WC505745 Run 2 Test Area: LTS

EUT Model #: DGVL441110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "D,B & E " Bands

Data File Name: 5745-2re.dat

Page: 9 of 10

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
1.633 GHz	64.95 Pk	3.55 / 25.93 / 49.58 / 0.0	44.85	V / 1.07 / 0	-63.06	-50.06
3.89 GHz	71.95 Pk	5.71 / 32.17 / 46.56 / 0.0	63.27	V / 1.90 / 0	-44.64	-31.64
5.835 GHz	56.4 Pk	7.0 / 34.27 / 45.7 / 0.0	51.97	V / 1.90 / 0	-55.94	-42.94
Maximized Vertical frequencies 1-19 GHz (1945 Mhz TX setting)						
1.633 GHz	68.3 Pk	3.55 / 25.93 / 49.58 / 0.0	48.2	V / 1.00 / 35	-59.71	-46.71
3.89 GHz	87.1 Pk	5.71 / 32.17 / 46.56 / 0.0	78.42	V / 1.40 / 122	-29.49	-16.49
5.835 GHz	59.95 Pk	7.0 / 34.27 / 45.7 / 0.0	55.52	V / 1.00 / 122	-52.39	-39.39
Maximized Horizontal frequencies 1-19 GHz (1945 Mhz TX setting)						
1.633 GHz	70.1 Pk	3.55 / 25.93 / 49.58 / 0.0	50.0	H / 1.00 / 130	-57.91	-44.91
3.89 GHz	81.9 Pk	5.71 / 32.17 / 46.56 / 0.0	73.22	H / 1.00 / 180	-34.69	-21.69
5.835 GHz	63.5 Pk	7.0 / 34.27 / 45.7 / 0.0	59.07	H / 1.00 / 20	-48.84	-35.84
Scan complete 30-19000 MHz						

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RADIATED EMISSIONS



Test Report #: WC505745 Run 2 Test Area: LTS

EUT Model #: DGVL441110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

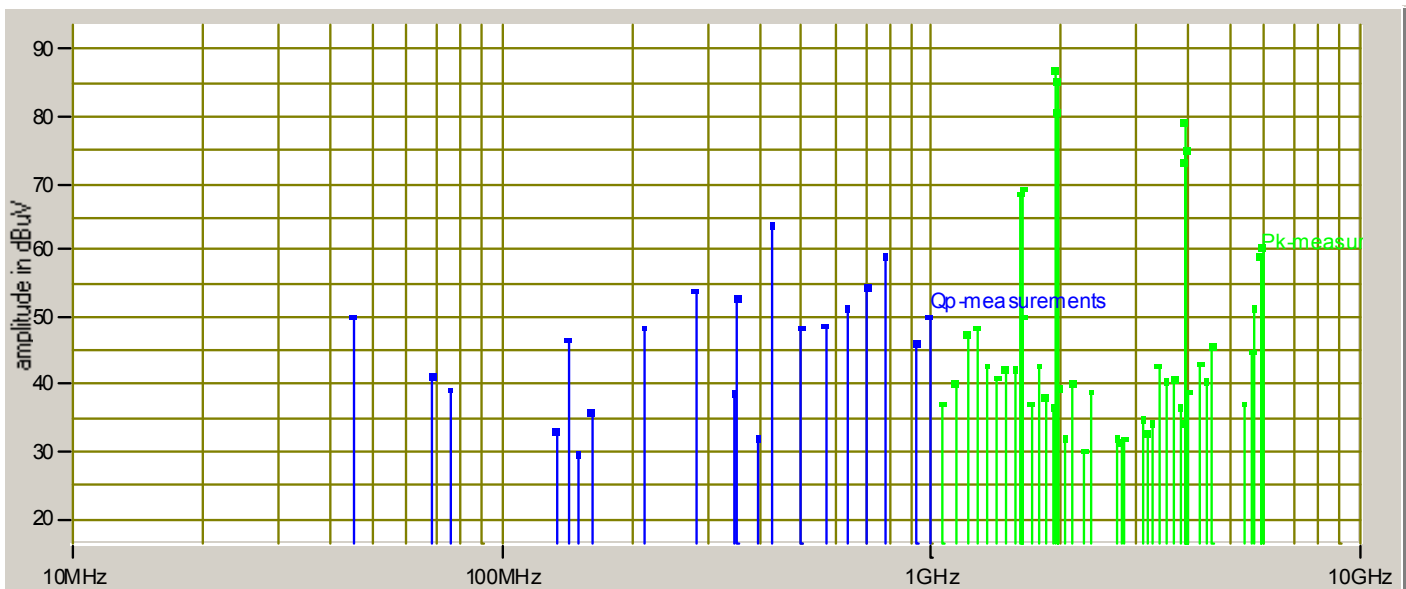
Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "D,B & E " Bands

Data File Name: 5745-2re.dat Page: 10 of 10

Graph:



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RADIATED EMISSIONS



Test Report #: WC505745 Run 3 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "E, F, & C" Bands

Data File Name: 5745-3re.dat

Page: 1 of 8

List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
Note 1965 MHz TX setting						
1.965 GHz	104.2 Pk	3.9 / 28.02 / 49.74 / 0.0	86.38	V / 1.40 / 0	-21.53	-8.53
1.965 GHz	104.05 Pk	3.9 / 28.02 / 49.74 / 0.0	86.23	H / 1.25 / 0	-21.68	-8.68
1.667 GHz	66.5 Pk	3.58 / 26.15 / 49.68 / 0.0	46.55	V / 1.00 / 0	-61.36	-48.36
3.632 GHz	60.1 Pk	5.51 / 31.52 / 46.99 / 0.0	50.14	V / 1.00 / 0	-57.77	-44.77
4.118 GHz	60.3 Pk	6.04 / 32.41 / 45.8 / 0.0	52.95	V / 1.00 / 0	-54.96	-41.96
6.177 GHz	57.35 Pk	7.35 / 34.42 / 45.45 / 0.0	53.66	V / 1.00 / 0	-54.25	-41.25
7.264 GHz	53.3 Pk	8.1 / 36.01 / 45.93 / 0.0	51.49	V / 1.00 / 0	-56.42	-43.42
8.236 GHz	53.4 Pk	8.81 / 37.12 / 45.6 / 0.0	53.73	V / 1.00 / 0	-54.18	-41.18
1.065 GHz	63.2 Pk	2.83 / 25.59 / 49.22 / 0.0	42.4	V / 1.00 / 0	-65.51	-52.51
1.136 GHz	60.2 Pk	2.93 / 25.51 / 49.55 / 0.0	39.08	V / 1.00 / 0	-68.83	-55.83
1.278 GHz	64.55 Pk	3.1 / 25.35 / 49.25 / 0.0	43.74	V / 1.00 / 0	-64.17	-51.17
1.349 GHz	66.4 Pk	3.18 / 25.27 / 49.37 / 0.0	45.47	V / 1.00 / 0	-62.44	-49.44
1.42 GHz	65.95 Pk	3.3 / 25.19 / 49.65 / 0.0	44.78	V / 1.00 / 0	-63.13	-50.13
1.491 GHz	69.5 Pk	3.42 / 25.11 / 49.8 / 0.0	48.23	V / 1.00 / 0	-59.68	-46.68
1.562 GHz	68.35 Pk	3.49 / 25.49 / 49.62 / 0.0	47.71	V / 1.00 / 0	-60.2	-47.2
1.633 GHz	58.0 Pk	3.55 / 25.93 / 49.58 / 0.0	37.9	V / 1.00 / 0	-70.01	-57.01
1.667 GHz	71.4 Pk	3.58 / 26.15 / 49.68 / 0.0	51.45	V / 1.00 / 0	-56.46	-43.46
1.704 GHz	60.95 Pk	3.62 / 26.38 / 49.76 / 0.0	41.19	V / 1.00 / 0	-66.72	-53.72
1.775 GHz	61.45 Pk	3.74 / 26.83 / 49.67 / 0.0	42.35	V / 1.00 / 0	-65.56	-52.56
1.846 GHz	61.9 Pk	3.83 / 27.27 / 49.79 / 0.0	43.21	V / 1.00 / 0	-64.7	-51.7
1.917 GHz	62.6 Pk	3.88 / 27.72 / 49.91 / 0.0	44.29	V / 1.00 / 0	-63.62	-50.62
1.988 GHz	56.0 Pk	3.9 / 28.17 / 49.65 / 0.0	38.41	V / 1.00 / 0	-69.5	-56.5
2.059 GHz	62.0 Pk	3.9 / 28.29 / 49.49 / 0.0	44.7	V / 1.00 / 0	-63.21	-50.21
2.13 GHz	60.9 Pk	3.97 / 28.34 / 49.41 / 0.0	43.81	V / 1.00 / 0	-64.1	-51.1

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RADIATED EMISSIONS



Test Report #: WC505745 Run 3 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "E, F, & C" Bands

Data File Name: 5745-3re.dat

Page: 2 of 8

List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
2.344 GHz	60.35 Pk	4.24 / 28.51 / 49.15 / 0.0	43.96	V / 1.00 / 0	-63.95	-50.95
3.408 GHz	55.25 Pk	5.15 / 30.98 / 47.3 / 0.0	44.08	V / 1.00 / 0	-63.83	-50.83
3.632 GHz	61.2 Pk	5.51 / 31.52 / 46.99 / 0.0	51.24	V / 1.00 / 0	-56.67	-43.67
3.692 GHz	56.7 Pk	5.56 / 31.67 / 46.95 / 0.0	46.97	V / 1.00 / 0	-60.94	-47.94
3.93 GHz	59.65 Pk	5.77 / 32.27 / 46.4 / 0.0	51.29	V / 1.00 / 0	-56.62	-43.62
4.118 GHz	62.2 Pk	6.04 / 32.41 / 45.8 / 0.0	54.85	V / 1.00 / 0	-53.06	-40.06
4.26 GHz	54.9 Pk	6.1 / 32.37 / 46.03 / 0.0	47.34	V / 1.00 / 0	-60.57	-47.57
4.402 GHz	52.85 Pk	6.1 / 32.33 / 45.82 / 0.0	45.45	V / 1.00 / 0	-62.46	-49.46
5.895 GHz	55.2 Pk	7.04 / 34.3 / 45.15 / 0.0	51.39	V / 1.20 / 0	-56.52	-43.52
6.177 GHz	58.1 Pk	7.35 / 34.42 / 45.45 / 0.0	54.41	V / 1.20 / 0	-53.5	-40.5
7.264 GHz	55.6 Pk	8.1 / 36.01 / 45.93 / 0.0	53.79	V / 1.20 / 0	-54.12	-41.12
8.236 GHz	55.45 Pk	8.81 / 37.12 / 45.6 / 0.0	55.78	V / 1.20 / 0	-52.13	-39.13
1.065 GHz	65.05 Pk	2.83 / 25.59 / 49.22 / 0.0	44.25	H / 2.00 / 0	-63.66	-50.66
1.136 GHz	63.95 Pk	2.93 / 25.51 / 49.55 / 0.0	42.83	H / 2.00 / 0	-65.08	-52.08
1.207 GHz	58.05 Pk	3.01 / 25.43 / 49.62 / 0.0	36.87	H / 2.00 / 0	-71.04	-58.04
1.278 GHz	63.45 Pk	3.1 / 25.35 / 49.25 / 0.0	42.64	H / 2.00 / 0	-65.27	-52.27
1.349 GHz	68.45 Pk	3.18 / 25.27 / 49.37 / 0.0	47.52	H / 2.00 / 0	-60.39	-47.39
1.42 GHz	63.1 Pk	3.3 / 25.19 / 49.65 / 0.0	41.93	H / 2.00 / 0	-65.98	-52.98
1.491 GHz	61.5 Pk	3.42 / 25.11 / 49.8 / 0.0	40.23	H / 2.00 / 0	-67.68	-54.68
1.562 GHz	58.05 Pk	3.49 / 25.49 / 49.62 / 0.0	37.41	H / 2.00 / 0	-70.5	-57.5
1.633 GHz	58.55 Pk	3.55 / 25.93 / 49.58 / 0.0	38.45	H / 2.00 / 0	-69.46	-56.46
1.667 GHz	66.5 Pk	3.58 / 26.15 / 49.68 / 0.0	46.55	H / 2.00 / 0	-61.36	-48.36
1.704 GHz	61.65 Pk	3.62 / 26.38 / 49.76 / 0.0	41.89	H / 2.00 / 0	-66.02	-53.02
1.775 GHz	58.95 Pk	3.74 / 26.83 / 49.67 / 0.0	39.85	H / 2.00 / 0	-68.06	-55.06
1.846 GHz	61.2 Pk	3.83 / 27.27 / 49.79 / 0.0	42.51	H / 2.00 / 0	-65.4	-52.4

Tested by: Joe Sausen

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Test Report #: WC505745 Run 3 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "E, F, & C" Bands

Data File Name: 5745-3re.dat

Page: 3 of 8

List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
1.917 GHz	57.95 Pk	3.88 / 27.72 / 49.91 / 0.0	39.64	H / 2.00 / 0	-68.27	-55.27
1.988 GHz	54.35 Pk	3.9 / 28.17 / 49.65 / 0.0	36.76	H / 2.00 / 0	-71.15	-58.15
2.059 GHz	57.85 Pk	3.9 / 28.29 / 49.49 / 0.0	40.55	H / 2.00 / 0	-67.36	-54.36
2.13 GHz	55.6 Pk	3.97 / 28.34 / 49.41 / 0.0	38.51	H / 2.00 / 0	-69.4	-56.4
2.343 GHz	55.75 Pk	4.24 / 28.51 / 49.14 / 0.0	39.36	H / 2.00 / 0	-68.55	-55.55
2.414 GHz	59.25 Pk	4.31 / 28.57 / 49.36 / 0.0	42.77	H / 2.00 / 0	-65.14	-52.14
3.266 GHz	53.75 Pk	5.0 / 30.67 / 47.55 / 0.0	41.87	H / 2.00 / 0	-66.04	-53.04
3.632 GHz	58.95 Pk	5.51 / 31.52 / 46.99 / 0.0	48.99	H / 2.00 / 0	-58.92	-45.92
3.692 GHz	53.5 Pk	5.56 / 31.67 / 46.95 / 0.0	43.77	H / 2.00 / 0	-64.14	-51.14
3.93 GHz	59.65 Pk	5.77 / 32.27 / 46.4 / 0.0	51.29	H / 2.00 / 0	-56.62	-43.62
4.118 GHz	63.15 Pk	6.04 / 32.41 / 45.8 / 0.0	55.8	H / 2.00 / 0	-52.11	-39.11
4.26 GHz	50.25 Pk	6.1 / 32.37 / 46.03 / 0.0	42.69	H / 2.00 / 0	-65.22	-52.22
4.544 GHz	50.1 Pk	6.15 / 32.39 / 45.32 / 0.0	43.32	H / 2.00 / 0	-64.59	-51.59
5.68 GHz	51.1 Pk	6.91 / 34.18 / 45.3 / 0.0	46.89	H / 2.00 / 0	-61.02	-48.02
5.895 GHz	56.25 Pk	7.04 / 34.3 / 45.15 / 0.0	52.44	H / 2.00 / 0	-55.47	-42.47
6.177 GHz	58.65 Pk	7.35 / 34.42 / 45.45 / 0.0	54.96	H / 2.00 / 0	-52.95	-39.95
7.264 GHz	52.65 Pk	8.1 / 36.01 / 45.93 / 0.0	50.84	H / 2.00 / 0	-57.07	-44.07
8.236 GHz	53.95 Pk	8.81 / 37.12 / 45.6 / 0.0	54.28	H / 2.00 / 0	-53.63	-40.63
Maximized Horizontal frequencies 1-19 GHz (1965 Mhz TX setting)						
3.93 GHz	81.75 Pk	5.77 / 32.27 / 46.4 / 0.0	73.39	H / 1.25 / 140	-68.27	-55.27
5.895 GHz	61.4 Pk	7.04 / 34.3 / 45.15 / 0.0	57.59	H / 1.25 / 0	-71.15	-58.15
4.118 GHz	68.7 Pk	6.04 / 32.41 / 45.8 / 0.0	61.35	H / 1.50 / 185	-67.36	-54.36
3.632 GHz	65.4 Pk	5.51 / 31.52 / 46.99 / 0.0	55.44	H / 1.20 / 130	-69.4	-56.4
1.667 GHz	83.35 Pk	3.58 / 26.15 / 49.68 / 0.0	63.4	H / 1.20 / 130	-68.55	-55.55
8.236 GHz	65.7 Pk	8.81 / 37.12 / 45.6 / 0.0	66.03	H / 1.20 / 160	-65.14	-52.14

Tested by: Joe Sausen

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Reviewed by: Greg Jakubowski

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Test Report #: WC505745 Run 3 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "E, F, & C" Bands

Data File Name: 5745-3re.dat

Page: 4 of 8

List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
Maximized Vertical frequencies 1-19 GHz (1965 MHz TX setting)						
3.93 GHz	84.1 Pk	5.77 / 32.27 / 46.4 / 0.0	75.74	V / 1.23 / 130	-32.17	-19.17
5.895 GHz	57.2 Pk	7.04 / 34.3 / 45.15 / 0.0	53.39	V / 1.00 / 0	-54.52	-41.52
4.118 GHz	67.9 Pk	6.04 / 32.41 / 45.8 / 0.0	60.55	V / 1.40 / 200	-47.36	-34.36
1.667 GHz	84.8 Pk	3.58 / 26.15 / 49.68 / 0.0	64.85	V / 1.00 / 190	-43.06	-30.06
Note 1977.5 MHz TX setting						
1.978 GHz	113.85 Pk	3.9 / 28.1 / 49.69 / 0.0	96.16	V / 1.15 / 140	-11.75	1.25
1.978 GHz	112.15 Pk	3.9 / 28.1 / 49.69 / 0.0	94.46	H / 1.25 / 120	-13.45	-0.45
Maximized Vertical frequencies 1-19 GHz (1977.5 MHz TX setting)						
3.955 GHz	83.05 Pk	5.81 / 32.34 / 46.23 / 0.0	74.96	V / 1.25 / 140	-32.95	-19.95
5.933 GHz	59.0 Pk	7.06 / 34.32 / 45.31 / 0.0	55.07	V / 1.15 / 45	-52.84	-39.84
4.118 GHz	67.55 Pk	6.04 / 32.41 / 45.8 / 0.0	60.2	V / 1.40 / 190	-47.71	-34.71
1.655 GHz	83.4 Pk	3.57 / 26.07 / 49.64 / 0.0	63.4	V / 1.30 / 200	-44.51	-31.51
3.632 GHz	65.65 Pk	5.51 / 31.52 / 46.99 / 0.0	55.69	V / 1.30 / 180	-52.22	-39.22
Maximized Horizontal frequencies 1-19 GHz (1977.5 MHz TX setting)						
3.955 GHz	82.25 Pk	5.81 / 32.34 / 46.23 / 0.0	74.16	H / 1.00 / 155	-33.75	-20.75
5.933 GHz	64.25 Pk	7.06 / 34.32 / 45.31 / 0.0	60.32	H / 1.00 / 0	-47.59	-34.59
4.118 GHz	68.4 Pk	6.04 / 32.41 / 45.8 / 0.0	61.05	H / 1.50 / 180	-46.86	-33.86
3.632 GHz	64.1 Pk	5.51 / 31.52 / 46.99 / 0.0	54.14	H / 1.20 / 130	-53.77	-40.77
Note 1990 MHz TX setting						
1.99 GHz	110.9 Pk	3.9 / 28.18 / 49.65 / 0.0	93.33	H / 1.50 / 120	-14.58	-1.58

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RADIATED EMISSIONS



Test Report #: WC505745 Run 3 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "E, F, & C" Bands

Data File Name: 5745-3re.dat

Page: 5 of 8

List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
1.99 GHz	108.65 Pk	3.9 / 28.18 / 49.65 / 0.0	91.08	V / 1.15 / 25	-16.83	-3.83
Maximized Vertical frequencies 1-19 GHz (1990 MHz TX setting)						
3.98 GHz	84.3 Pk	5.84 / 32.4 / 46.06 / 0.0	76.48	V / 1.10 / 150	-31.43	-18.43
5.97 GHz	59.75 Pk	7.08 / 34.34 / 45.55 / 0.0	55.62	V / 1.00 / 145	-52.29	-39.29
4.118 GHz	69.25 Pk	6.04 / 32.41 / 45.8 / 0.0	61.9	V / 1.40 / 185	-46.01	-33.01
1.642 GHz	80.55 Pk	3.56 / 25.99 / 49.61 / 0.0	60.49	V / 1.40 / 210	-47.42	-34.42
3.632 GHz	66.2 Pk	5.51 / 31.52 / 46.99 / 0.0	56.24	V / 1.30 / 160	-51.67	-38.67
Maximized Horizontal frequencies 1-19 MHz (1990 MHz TX setting)						
3.98 GHz	78.4 Pk	5.84 / 32.4 / 46.06 / 0.0	70.58	H / 1.00 / 150	-37.33	-24.33
5.97 GHz	60.9 Pk	7.08 / 34.34 / 45.55 / 0.0	56.77	H / 1.00 / 0	-51.14	-38.14
4.118 GHz	68.4 Pk	6.04 / 32.41 / 45.8 / 0.0	61.05	H / 1.50 / 185	-46.86	-33.86
3.632 GHz	64.45 Pk	5.51 / 31.52 / 46.99 / 0.0	54.49	H / 1.20 / 125	-53.42	-40.42
11-10-05 JCS						
518 kHz harmonics:						
58.069 MHz	57.4 Qp	0.6 / 12.18 / 27.0 / 0.0	43.18	V / 1.20 / 125	-64.73	-51.73
57.551 MHz	56.5 Qp	0.6 / 12.33 / 27.0 / 0.0	42.43	V / 1.20 / 125	-65.48	-52.48
57.032 MHz	54.85 Qp	0.6 / 12.49 / 27.0 / 0.0	40.94	V / 1.20 / 125	-66.97	-53.97
56.513 MHz	55.6 Qp	0.6 / 12.6 / 27.0 / 0.0	41.8	V / 1.20 / 125	-66.11	-53.11
39.194 MHz	57.6 Qp	0.49 / 17.12 / 27.13 / 0.0	48.09	V / 1.20 / 125	-59.82	-46.82
69.194 MHz	58.8 Qp	0.7 / 8.96 / 27.0 / 0.0	41.46	V / 1.20 / 125	-66.45	-53.45
80.132 MHz	54.6 Qp	0.8 / 7.1 / 26.9 / 0.0	35.6	V / 1.20 / 125	-72.31	-59.31
98.264 MHz	55.05 Qp	0.9 / 8.86 / 27.0 / 0.0	37.81	V / 1.20 / 125	-70.1	-57.1

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Test Report #: WC505745 Run 3 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "E, F, & C" Bands

Data File Name: 5745-3re.dat

Page: 6 of 8

List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
127.064 MHz	60.85 Qp	0.97 / 8.19 / 27.03 / 0.0	42.98	V / 1.20 / 125	-64.93	-51.93
142.0 MHz	54.65 Qp	1.0 / 9.22 / 26.97 / 0.0	37.9	V / 1.20 / 125	-70.01	-57.01
71.0 MHz	56.9 Qp	0.7 / 8.5 / 27.0 / 0.0	39.1	V / 1.20 / 125	-68.81	-55.81
213.0 MHz	54.35 Qp	1.21 / 10.53 / 27.11 / 0.0	38.98	V / 1.20 / 125	-68.93	-55.93
284.0 MHz	58.3 Qp	1.5 / 12.56 / 27.43 / 0.0	44.93	V / 1.20 / 125	-62.98	-49.98
355.0 MHz	43.85 Qp	1.6 / 14.65 / 27.6 / 0.0	32.5	V / 1.20 / 125	-75.41	-62.41
426.0 MHz	64.75 Qp	1.71 / 16.18 / 27.9 / 0.0	54.74	V / 1.20 / 125	-53.17	-40.17
497.0 MHz	50.9 Qp	1.9 / 17.39 / 27.93 / 0.0	42.26	V / 1.20 / 125	-65.65	-52.65
568.0 MHz	49.8 Qp	2.03 / 18.42 / 28.1 / 0.0	42.15	V / 1.20 / 125	-65.76	-52.76
639.0 MHz	44.6 Qp	2.1 / 19.5 / 28.2 / 0.0	38.0	V / 1.20 / 125	-69.91	-56.91
710.0 MHz	54.9 Qp	2.3 / 20.2 / 27.95 / 0.0	49.45	V / 1.20 / 125	-58.46	-45.46
781.0 MHz	49.35 Qp	2.39 / 21.54 / 27.83 / 0.0	45.45	V / 1.20 / 125	-62.46	-49.46
852.0 MHz	32.5 Qp	2.51 / 21.9 / 27.78 / 0.0	29.14	V / 1.20 / 125	-78.77	-65.77
923.0 MHz	43.15 Qp	2.63 / 22.46 / 27.6 / 0.0	40.64	V / 1.20 / 125	-67.27	-54.27
994.0 MHz	37.95 Qp	2.73 / 22.66 / 27.57 / 0.0	35.78	V / 1.20 / 125	-72.13	-59.13
426 MHz maxed:						
426.0 MHz	67.4 Qp	1.71 / 16.18 / 27.9 / 0.0	57.39	V / 1.00 / 213	-50.52	-37.52
68.82 MHz	63.6 Qp	0.7 / 9.05 / 27.0 / 0.0	46.35	V / 1.00 / 213	-61.56	-48.56
69.194 MHz	63.55 Qp	0.7 / 8.96 / 27.0 / 0.0	46.21	V / 1.00 / 213	-61.7	-48.7
71.0 MHz	59.8 Qp	0.7 / 8.5 / 27.0 / 0.0	42.0	V / 1.00 / 213	-65.91	-52.91
76.0 MHz	57.9 Qp	0.73 / 7.58 / 26.97 / 0.0	39.23	V / 1.00 / 213	-68.68	-55.68
142.0 MHz	67.25 Qp	1.0 / 9.22 / 26.97 / 0.0	50.5	V / 1.00 / 213	-57.41	-44.41
213.0 MHz	58.4 Qp	1.21 / 10.53 / 27.11 / 0.0	43.03	V / 1.00 / 213	-64.88	-51.88
345.748 MHz	50.15 Qp	1.6 / 14.51 / 27.6 / 0.0	38.66	V / 1.00 / 213	-69.25	-56.25
355.0 MHz	47.75 Qp	1.6 / 14.65 / 27.6 / 0.0	36.4	V / 1.00 / 213	-71.51	-58.51

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Test Report #: WC505745 Run 3 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "E, F, & C" Bands

Data File Name: 5745-3re.dat

Page: 7 of 8

List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
497.0 MHz	59.45 Qp	1.9 / 17.39 / 27.93 / 0.0	50.81	V / 1.00 / 213	-57.1	-44.1
568.0 MHz	55.55 Qp	2.03 / 18.42 / 28.1 / 0.0	47.9	V / 1.00 / 213	-60.01	-47.01
710.0 MHz	56.2 Qp	2.3 / 20.2 / 27.95 / 0.0	50.75	V / 1.00 / 213	-57.16	-44.16
781.0 MHz	54.5 Qp	2.39 / 21.54 / 27.83 / 0.0	50.6	V / 1.00 / 213	-57.31	-44.31
923.0 MHz	50.1 Qp	2.63 / 22.46 / 27.6 / 0.0	47.59	V / 1.00 / 213	-60.32	-47.32
994.0 MHz	49.3 Qp	2.73 / 22.66 / 27.57 / 0.0	47.13	V / 1.00 / 213	-60.78	-47.78
781 MHz maxed:						
781.0 MHz	57.05 Qp	2.39 / 21.54 / 27.83 / 0.0	53.15	V / 1.00 / 200	-54.76	-41.76
44.82 MHz	51.55 Qp	0.6 / 15.35 / 27.06 / 0.0	40.44	V / 1.00 / 200	-67.47	-54.47
133.663 MHz	52.4 Qp	1.0 / 7.97 / 27.0 / 0.0	34.37	V / 1.00 / 200	-73.54	-60.54
213.0 MHz	61.6 Qp	1.21 / 10.53 / 27.11 / 0.0	46.23	V / 1.00 / 200	-61.68	-48.68
284.0 MHz	61.6 Qp	1.5 / 12.56 / 27.43 / 0.0	48.23	V / 1.00 / 200	-59.68	-46.68
142 MHz maxed:						
142.0 MHz	75.85 Qp	1.0 / 9.22 / 26.97 / 0.0	59.1	H / 2.14 / 235	-48.81	-35.81
639.0 MHz	46.75 Qp	2.1 / 19.5 / 28.2 / 0.0	40.15	H / 3.10 / 235	-67.76	-54.76
NOTE! 1977.5 MHz Tx setting:						
142.0 MHz	75.95 Qp	1.0 / 9.22 / 26.97 / 0.0	59.2	H / 2.10 / 235	-48.71	-35.71
852.0 MHz	37.4 Qp	2.51 / 21.9 / 27.78 / 0.0	34.04	V / 2.10 / 235	-73.87	-60.87
426.0 MHz	65.75 Qp	1.71 / 16.18 / 27.9 / 0.0	55.74	V / 1.00 / 213	-52.17	-39.17
NOTE! 1965 MHz Tx setting:						
426.0 MHz	65.75 Qp	1.71 / 16.18 / 27.9 / 0.0	55.74	V / 1.00 / 213	-52.17	-39.17
142.0 MHz	75.3 Qp	1.0 / 9.22 / 26.97 / 0.0	58.55	H / 2.10 / 235	-49.36	-36.36

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RADIATED EMISSIONS



Test Report #: WC505745 Run 3 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/9/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

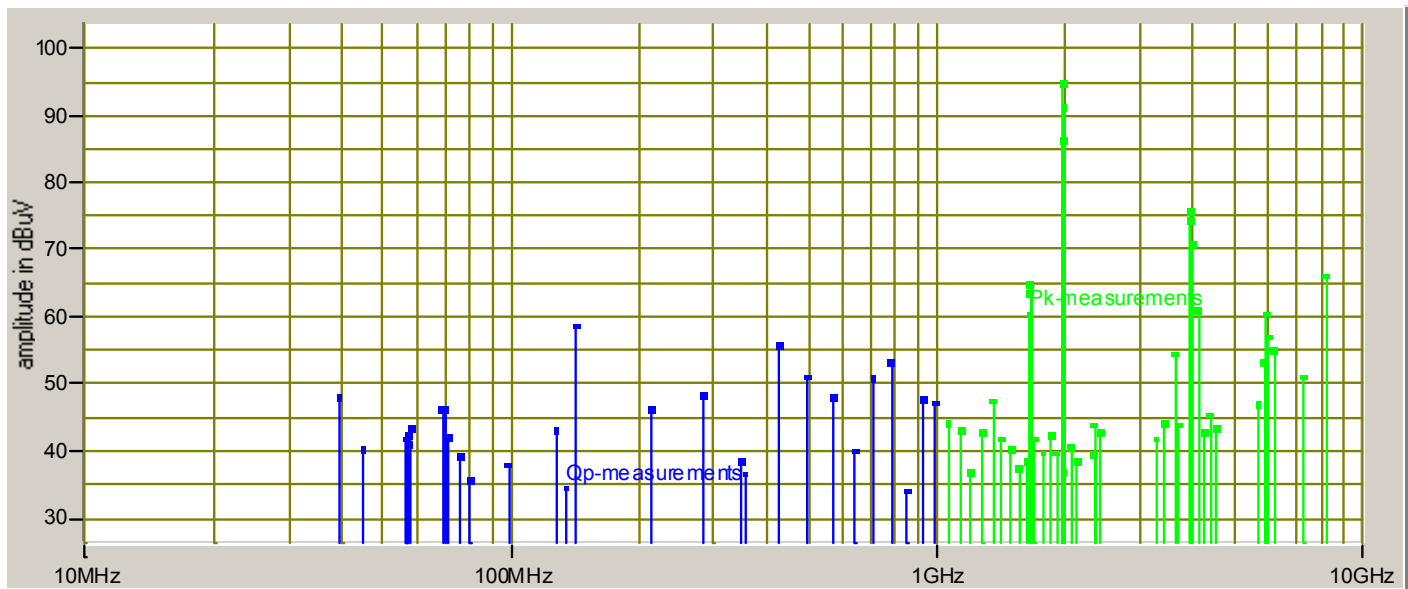
Notes: "E, F, & C" Bands

Data File Name: 5745-3re.dat Page: 8 of 8

List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
No further significant EUT emissions detected 30 MHz to 19 GHz, vert and hor ant.						

Graph:



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RADIATED EMISSIONS



Test Report #: WC505745 Run 4 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/10/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "B, E, & F" Bands

Data File Name: 5745-4-re.dat

Page: 1 of 6

List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
NOTE! 1950 Tx setting:						
38.196 MHz	56.0 Qp	0.49 / 17.52 / 27.17 / 0.0	46.84	V / 1.00 / 230	-61.07	-48.07
38.694 MHz	54.75 Qp	0.49 / 17.32 / 27.15 / 0.0	45.41	V / 1.00 / 230	-62.5	-49.5
39.726 MHz	55.75 Qp	0.5 / 16.91 / 27.11 / 0.0	46.05	V / 1.00 / 230	-61.86	-48.86
56.514 MHz	52.85 Qp	0.6 / 12.6 / 27.0 / 0.0	39.05	V / 1.00 / 230	-68.86	-55.86
57.012 MHz	53.1 Qp	0.6 / 12.5 / 27.0 / 0.0	39.2	V / 1.00 / 230	-68.71	-55.71
64.212 MHz	57.7 Qp	0.68 / 10.34 / 27.0 / 0.0	41.72	V / 1.00 / 230	-66.19	-53.19
69.492 MHz	57.4 Qp	0.7 / 8.9 / 27.0 / 0.0	40.0	V / 1.00 / 230	-67.91	-54.91
99.288 MHz	53.9 Qp	0.89 / 8.94 / 27.0 / 0.0	36.73	V / 1.00 / 230	-71.18	-58.18
127.249 MHz	55.65 Qp	0.97 / 8.18 / 27.03 / 0.0	37.76	V / 1.00 / 230	-70.15	-57.15
141.979 MHz	70.85 Qp	1.0 / 9.22 / 26.97 / 0.0	54.09	V / 1.00 / 230	-53.82	-40.82
213.0 MHz	52.65 Qp	1.21 / 10.53 / 27.11 / 0.0	37.28	V / 1.00 / 230	-70.63	-57.63
284.0 MHz	53.3 Qp	1.5 / 12.56 / 27.43 / 0.0	39.93	V / 1.00 / 230	-67.98	-54.98
355.0 MHz	47.45 Qp	1.6 / 14.65 / 27.6 / 0.0	36.1	V / 1.00 / 230	-71.81	-58.81
426.0 MHz	66.05 Qp	1.71 / 16.18 / 27.9 / 0.0	56.04	V / 1.00 / 230	-51.87	-38.87
497.0 MHz	52.65 Qp	1.9 / 17.39 / 27.93 / 0.0	44.01	V / 1.00 / 230	-63.9	-50.9
568.0 MHz	50.85 Qp	2.03 / 18.42 / 28.1 / 0.0	43.2	V / 1.00 / 230	-64.71	-51.71
639.0 MHz	58.25 Qp	2.1 / 19.5 / 28.2 / 0.0	51.65	V / 1.00 / 230	-56.26	-43.26
710.0 MHz	56.95 Qp	2.3 / 20.2 / 27.95 / 0.0	51.5	V / 1.00 / 230	-56.41	-43.41
781.0 MHz	53.6 Qp	2.39 / 21.54 / 27.83 / 0.0	49.7	V / 1.00 / 230	-58.21	-45.21
852.0 MHz	37.15 Qp	2.51 / 21.9 / 27.78 / 0.0	33.79	V / 1.00 / 230	-74.12	-61.12
923.0 MHz	41.7 Qp	2.63 / 22.46 / 27.6 / 0.0	39.19	V / 1.00 / 230	-68.72	-55.72
994.0 MHz	52.65 Qp	2.73 / 22.66 / 27.57 / 0.0	50.48	V / 1.00 / 230	-57.43	-44.43
416.429 MHz	44.65 Qp	1.7 / 15.82 / 27.88 / 0.0	34.29	V / 1.00 / 230	-73.62	-60.62

142 MHz maxed:

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Test Report #: WC505745 Run 4 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/10/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "B, E, & F" Bands

Data File Name: 5745-4-re.dat

Page: 2 of 6

List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
142.0 MHz	70.05 Qp	1.0 / 9.22 / 26.97 / 0.0	53.3	V / 1.00 / 233	-54.61	-41.61
141.979 MHz	75.3 Qp	1.0 / 9.22 / 26.97 / 0.0	58.54	H / 2.14 / 249	-49.37	-36.37
213.0 MHz	56.65 Qp	1.21 / 10.53 / 27.11 / 0.0	41.28	H / 2.14 / 249	-66.63	-53.63
426 MHz maxed:						
426.0 MHz	68.8 Qp	1.71 / 16.18 / 27.9 / 0.0	58.79	H / 1.00 / 262	-49.12	-36.12
213.0 MHz	57.75 Qp	1.21 / 10.53 / 27.11 / 0.0	42.38	H / 1.00 / 262	-65.53	-52.53
284.0 MHz	58.95 Qp	1.5 / 12.56 / 27.43 / 0.0	45.58	H / 1.00 / 262	-62.33	-49.33
355.0 MHz	48.8 Qp	1.6 / 14.65 / 27.6 / 0.0	37.45	H / 1.00 / 262	-70.46	-57.46
923.0 MHz	42.95 Qp	2.63 / 22.46 / 27.6 / 0.0	40.44	H / 1.00 / 262	-67.47	-54.47
NOTE! 1962.5 MHz Tx setting:						
426.0 MHz	68.6 Qp	1.71 / 16.18 / 27.9 / 0.0	58.59	H / 1.00 / 262	-49.32	-36.32
142.0 MHz	70.9 Qp	1.0 / 9.22 / 26.97 / 0.0	54.15	V / 1.00 / 233	-53.76	-40.76
355.0 MHz	49.9 Qp	1.6 / 14.65 / 27.6 / 0.0	38.55	V / 1.00 / 233	-69.36	-56.36
710.0 MHz	57.3 Qp	2.3 / 20.2 / 27.95 / 0.0	51.85	V / 1.00 / 233	-56.06	-43.06
994.0 MHz	53.55 Qp	2.73 / 22.66 / 27.57 / 0.0	51.38	V / 1.00 / 233	-56.53	-43.53
Note! 1975 MHz Tx setting:						
142.0 MHz	70.8 Qp	1.0 / 9.22 / 26.97 / 0.0	54.05	V / 1.00 / 233	-53.86	-40.86
426.0 MHz	68.25 Qp	1.71 / 16.18 / 27.9 / 0.0	58.24	H / 1.00 / 262	-49.67	-36.67
213.0 MHz	58.35 Qp	1.21 / 10.53 / 27.11 / 0.0	42.98	H / 1.00 / 262	-64.93	-51.93
284.0 MHz	60.3 Qp	1.5 / 12.56 / 27.43 / 0.0	46.93	H / 1.00 / 262	-60.98	-47.98
923.0 MHz	45.4 Qp	2.63 / 22.46 / 27.6 / 0.0	42.89	H / 1.00 / 262	-65.02	-52.02
474.698 MHz	38.8 Qp	1.87 / 16.54 / 27.9 / 0.0	29.31	H / 1.00 / 262	-78.6	-65.6
1.065 GHz	49.8 Pk	2.83 / 25.59 / 49.22 / 0.0	29.0	H / 1.00 / 262	-78.91	-65.91
1.136 GHz	59.7 Pk	2.93 / 25.51 / 49.55 / 0.0	38.58	H / 1.00 / 262	-69.33	-56.33

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Test Report #: WC505745 Run 4 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/10/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "B, E, & F" Bands

Data File Name: 5745-4-re.dat

Page: 3 of 6

List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
1.207 GHz	60.2 Pk	3.01 / 25.43 / 49.62 / 0.0	39.02	H / 1.00 / 262	-68.89	-55.89
1.278 GHz	60.85 Pk	3.1 / 25.35 / 49.25 / 0.0	40.04	H / 1.00 / 262	-67.87	-54.87
1.349 GHz	62.6 Pk	3.18 / 25.27 / 49.37 / 0.0	41.67	H / 1.00 / 262	-66.24	-53.24
1.42 GHz	48.4 Pk	3.3 / 25.19 / 49.65 / 0.0	27.23	H / 1.00 / 262	-80.68	-67.68
1.491 GHz	57.55 Pk	3.42 / 25.11 / 49.8 / 0.0	36.28	H / 1.00 / 262	-71.63	-58.63
1.562 GHz	47.45 Pk	3.49 / 25.49 / 49.62 / 0.0	26.81	H / 1.00 / 262	-81.1	-68.1
1.633 GHz	50.65 Pk	3.55 / 25.93 / 49.58 / 0.0	30.55	H / 1.00 / 262	-77.36	-64.36
1.704 GHz	53.4 Pk	3.62 / 26.38 / 49.76 / 0.0	33.64	H / 1.00 / 262	-74.27	-61.27
1.775 GHz	54.3 Pk	3.74 / 26.83 / 49.67 / 0.0	35.2	H / 1.00 / 262	-72.71	-59.71
1.846 GHz	62.1 Pk	3.83 / 27.27 / 49.79 / 0.0	43.41	H / 1.00 / 262	-64.5	-51.5
1.917 GHz	52.0 Pk	3.88 / 27.72 / 49.91 / 0.0	33.69	H / 1.00 / 262	-74.22	-61.22
1.988 GHz	53.2 Pk	3.9 / 28.17 / 49.65 / 0.0	35.61	H / 1.00 / 262	-72.3	-59.3
2.13 GHz	51.9 Pk	3.97 / 28.34 / 49.41 / 0.0	34.81	H / 1.00 / 262	-73.1	-60.1
2.272 GHz	49.9 Pk	4.15 / 28.46 / 49.07 / 0.0	33.44	H / 1.00 / 262	-74.47	-61.47
2.414 GHz	48.9 Pk	4.31 / 28.57 / 49.36 / 0.0	32.42	H / 1.00 / 262	-75.49	-62.49
2.556 GHz	48.25 Pk	4.4 / 28.8 / 48.79 / 0.0	32.66	H / 1.00 / 262	-75.25	-62.25
2.698 GHz	47.25 Pk	4.48 / 29.21 / 48.26 / 0.0	32.68	H / 1.00 / 262	-75.23	-62.23
2.769 GHz	46.25 Pk	4.53 / 29.41 / 48.26 / 0.0	31.92	H / 1.00 / 262	-75.99	-62.99
2.84 GHz	48.35 Pk	4.6 / 29.62 / 48.37 / 0.0	34.2	H / 1.00 / 262	-73.71	-60.71
2.982 GHz	46.65 Pk	4.74 / 30.03 / 48.19 / 0.0	33.22	H / 1.00 / 262	-74.69	-61.69
3.692 GHz	44.35 Pk	5.56 / 31.67 / 46.95 / 0.0	34.62	H / 1.00 / 262	-73.29	-60.29
3.976 GHz	45.4 Pk	5.84 / 32.39 / 46.09 / 0.0	37.54	H / 1.00 / 262	-70.37	-57.37
4.544 GHz	43.3 Pk	6.15 / 32.39 / 45.32 / 0.0	36.52	H / 1.00 / 262	-71.39	-58.39
4.828 GHz	41.4 Pk	6.35 / 33.02 / 45.15 / 0.0	35.61	H / 1.00 / 262	-72.3	-59.3
4.97 GHz	41.0 Pk	6.47 / 33.33 / 44.7 / 0.0	36.1	H / 1.00 / 262	-71.81	-58.81
5.254 GHz	40.5 Pk	6.65 / 33.75 / 44.74 / 0.0	36.15	H / 1.00 / 262	-71.76	-58.76

Tested by: Joe Sausen

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Reviewed by: Greg Jakubowski

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RADIATED EMISSIONS



Test Report #: WC505745 Run 4 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/10/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "B, E, & F" Bands

Data File Name: 5745-4-re.dat

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List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
10.22 GHz	43.85 Pk	9.8 / 38.03 / 45.32 / 0.0	46.36	H / 1.00 / 262	-61.55	-48.55
3.95 GHz	51.45 Pk	5.8 / 32.32 / 46.27 / 0.0	43.31	H / 1.00 / 262	-64.6	-51.6
1.975 GHz	92.9 Pk	3.9 / 28.08 / 49.7 / 0.0	75.18	H / 1.00 / 262	-32.73	-19.73
3.95 GHz maxed:						
3.95 GHz	81.6 Pk	5.8 / 32.32 / 46.27 / 0.0	73.46	H / 1.00 / 153	-34.45	-21.45
3.95 GHz	83.75 Pk	5.8 / 32.32 / 46.27 / 0.0	75.61	V / 1.14 / 141	-32.3	-19.3
4.544 GHz	49.6 Pk	6.15 / 32.39 / 45.32 / 0.0	42.82	V / 1.14 / 141	-65.09	-52.09
2.698 GHz	57.9 Pk	4.48 / 29.21 / 48.26 / 0.0	43.33	V / 1.14 / 141	-64.58	-51.58
2.414 GHz	51.75 Pk	4.31 / 28.57 / 49.36 / 0.0	35.27	V / 1.14 / 141	-72.64	-59.64
2.13 GHz	61.45 Pk	3.97 / 28.34 / 49.41 / 0.0	44.36	V / 1.14 / 141	-63.55	-50.55
1.988 GHz	59.3 Pk	3.9 / 28.17 / 49.65 / 0.0	41.71	V / 1.14 / 141	-66.2	-53.2
1.704 GHz	65.6 Pk	3.62 / 26.38 / 49.76 / 0.0	45.84	V / 1.14 / 141	-62.07	-49.07
1.633 GHz	61.0 Pk	3.55 / 25.93 / 49.58 / 0.0	40.9	V / 1.14 / 141	-67.01	-54.01
1.562 GHz	69.3 Pk	3.49 / 25.49 / 49.62 / 0.0	48.66	V / 1.14 / 141	-59.25	-46.25
1.491 GHz	63.85 Pk	3.42 / 25.11 / 49.8 / 0.0	42.58	V / 1.14 / 141	-65.33	-52.33
1.42 GHz	59.85 Pk	3.3 / 25.19 / 49.65 / 0.0	38.68	V / 1.14 / 141	-69.23	-56.23
1.207 GHz	63.2 Pk	3.01 / 25.43 / 49.62 / 0.0	42.02	V / 1.14 / 141	-65.89	-52.89
1.136 GHz	67.7 Pk	2.93 / 25.51 / 49.55 / 0.0	46.58	V / 1.14 / 141	-61.33	-48.33
1.065 GHz	60.3 Pk	2.83 / 25.59 / 49.22 / 0.0	39.5	V / 1.14 / 141	-68.41	-55.41
NOTE! 1962.5 MHz Tx setting:						
3925 MHz maxed:						
3.925 GHz	85.95 Pk	5.76 / 32.26 / 46.44 / 0.0	77.54	V / 1.18 / 131	-30.37	-17.37
3.692 GHz	48.15 Pk	5.56 / 31.67 / 46.95 / 0.0	38.42	V / 1.18 / 131	-69.49	-56.49
2.84 GHz	53.55 Pk	4.6 / 29.62 / 48.37 / 0.0	39.4	V / 1.18 / 131	-68.51	-55.51
2.272 GHz	53.05 Pk	4.15 / 28.46 / 49.07 / 0.0	36.59	V / 1.18 / 131	-71.32	-58.32

Tested by: Joe Sausen

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Reviewed by: Greg Jakubowski

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RADIATED EMISSIONS



Test Report #: WC505745 Run 4 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/10/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "B, E, & F" Bands

Data File Name: 5745-4-re.dat

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List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	FINAL (dBm)	DELTA -13 dBm Limit
1.846 GHz	65.05 Pk	3.83 / 27.27 / 49.79 / 0.0	46.36	V / 1.18 / 131	-61.55	-48.55
1.278 GHz	62.0 Pk	3.1 / 25.35 / 49.25 / 0.0	41.19	V / 1.18 / 131	-66.72	-53.72
3925 MHz maxed:						
3.925 GHz	77.6 Pk	5.76 / 32.26 / 46.44 / 0.0	69.19	H / 1.20 / 215	-38.72	-25.72
1.917 GHz	55.55 Pk	3.88 / 27.72 / 49.91 / 0.0	37.24	H / 1.20 / 215	-70.67	-57.67
1.775 GHz	59.75 Pk	3.74 / 26.83 / 49.67 / 0.0	40.65	H / 1.20 / 215	-67.26	-54.26
1.349 GHz	64.45 Pk	3.18 / 25.27 / 49.37 / 0.0	43.52	H / 1.20 / 215	-64.39	-51.39
1.278 GHz	64.25 Pk	3.1 / 25.35 / 49.25 / 0.0	43.44	H / 1.20 / 215	-64.47	-51.47
1.065 GHz	62.0 Pk	2.83 / 25.59 / 49.22 / 0.0	41.2	H / 1.20 / 215	-66.71	-53.71
NOTE! 1950 MHz Tx setting:						
3.9 GHz	79.55 Pk	5.73 / 32.2 / 46.61 / 0.0	70.87	H / 1.16 / 215	-37.04	-24.04
2.556 GHz	52.3 Pk	4.4 / 28.8 / 48.79 / 0.0	36.71	H / 1.16 / 215	-71.2	-58.2
3.9 GHz	78.45 Pk	5.73 / 32.2 / 46.61 / 0.0	69.77	V / 1.00 / 126	-38.14	-25.14
1.917 GHz	60.5 Pk	3.88 / 27.72 / 49.91 / 0.0	42.19	V / 1.00 / 126	-65.72	-52.72
1.349 GHz	64.9 Pk	3.18 / 25.27 / 49.37 / 0.0	43.97	V / 1.00 / 126	-63.94	-50.94
1.278 GHz	66.75 Pk	3.1 / 25.35 / 49.25 / 0.0	45.94	V / 1.00 / 126	-61.97	-48.97

No further significant EUT emissions detected 30 MHz to 19 GHz, vert and hor ant.

Tested by: Joe Sausen

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Reviewed by: Greg Jakubowski

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RADIATED EMISSIONS



Test Report #: WC505745 Run 4 Test Area: LTS

EUT Model #: DGVL461110SYS Date: 11/10/2005

EUT Serial #: na EUT Power: 60 Hz / 120 VAC Temperature: 23.0 °C

Test Method: FCC Part 24 Air Pressure: 98 kPa

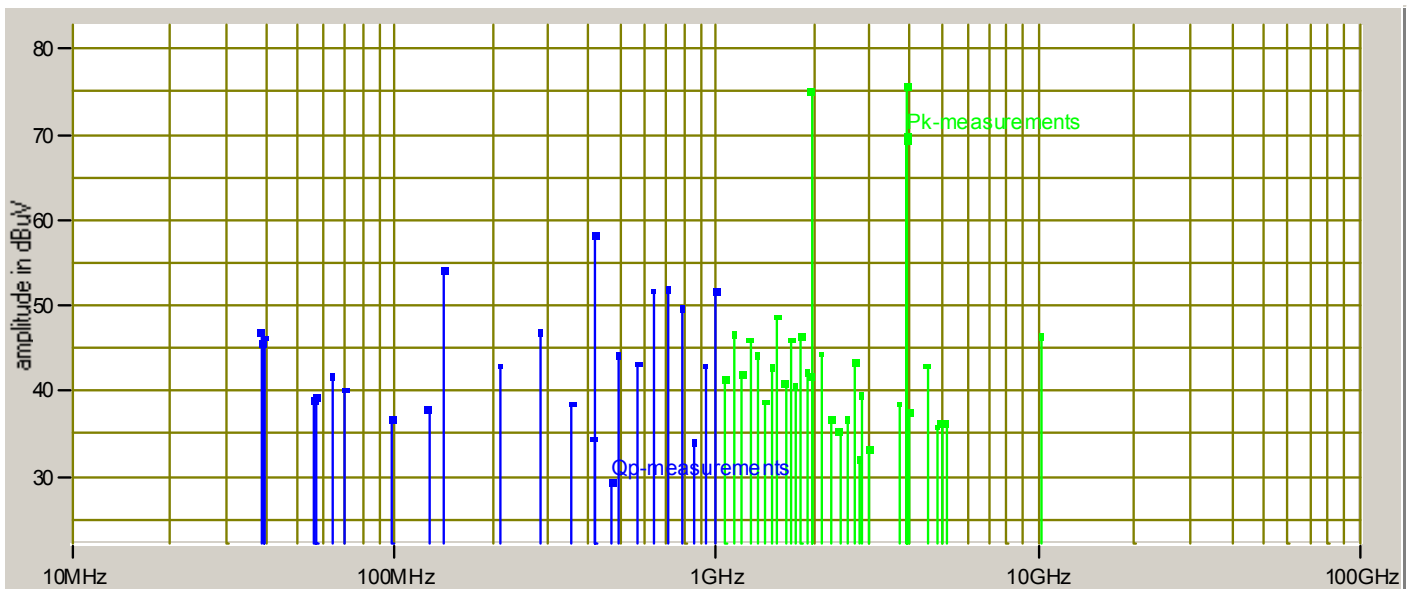
Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 30 %

EUT Description: LRCS 1900 MHz

Notes: "B, E, & F" Bands

Data File Name: 5745-4-re.dat Page: 6 of 6

Graph:



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