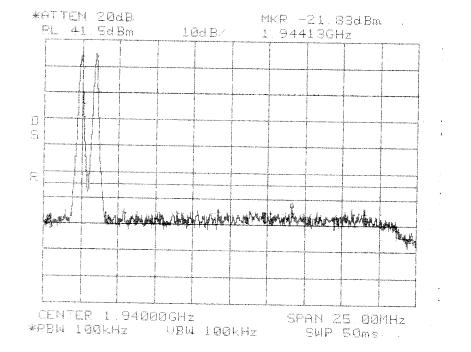
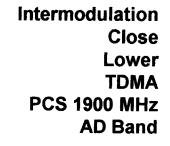
## Inter-Modulation Test for ADC Inc Digivanceâ Street Coverage Solution Model Number DGVC-431X0000100SYS, DGVC-441X0000100SYS, DGVC-451X0000100SYS, and DGVC-461X0000100SYS

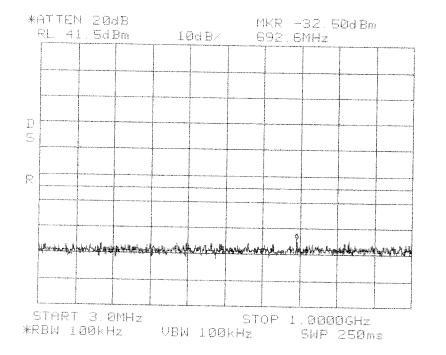
The inter-modulation products test was performed for the EUT. Three tests were preformed with the modulation type. Test 1 was with 2 signals input to the EUT at lower end channels. Test 2 was with 2 signals input to the EUT at upper end channels. Test 3 was with 2 signals input to the EUT at upper and lower end channels. The modulation types tested were TDMA, GSM, and CDMA. An investigation was made from 30 MHz to the 10<sup>th</sup> Harmonic of the highest fundamental frequency (~20 GHz). The following plots show the results.

Results: (See Plots)

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

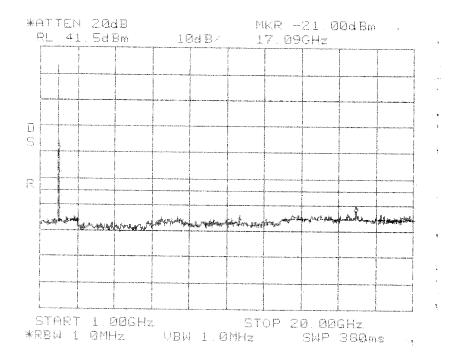


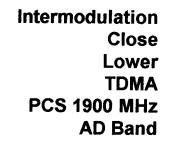




Intermodulation Close Lower TDMA PCS 1900 MHz AD Band

## Span: 1 GHz to 20 GHz RBW/VBW: 1 MHz

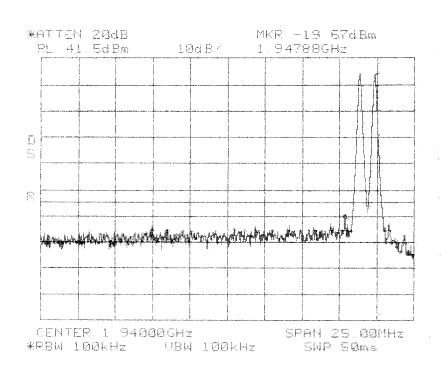


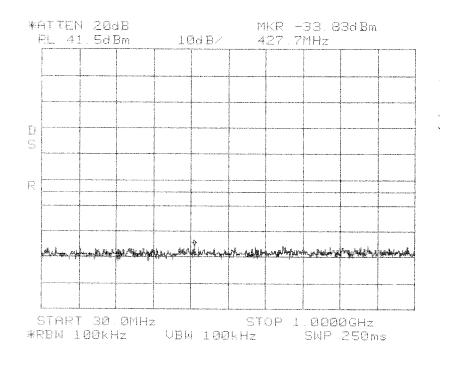


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Center: 1940.0 MHz Span: 25 MHz RBW/VBW: 100 kHz

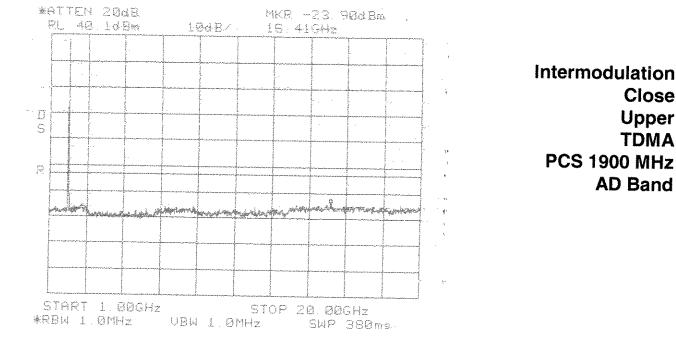
Intermodulation Close Upper TDMA PCS 1900 MHz AD Band



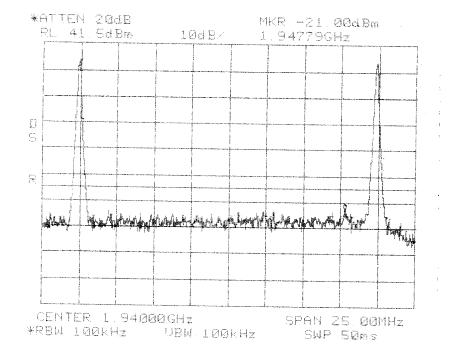


Intermodulation Close Upper TDMA PCS 1900 MHz AD Band

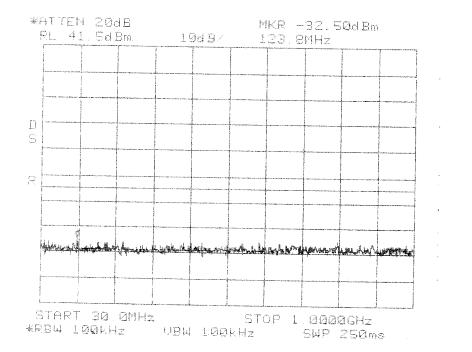
## Span: 1 GHz to 20 GHz RBW/VBW: 1 MHz



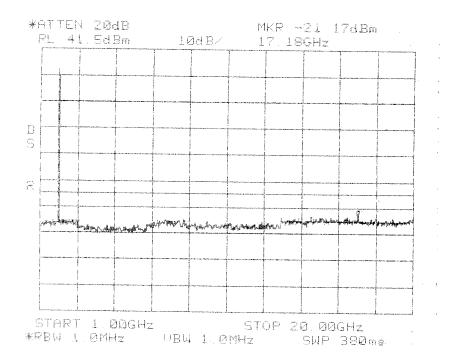
Center: 1940.0 MHz Span: 25 MHz RBW/VBW: 100 kHz



Intermodulation Apart TDMA PCS 1900 MHz AD Band



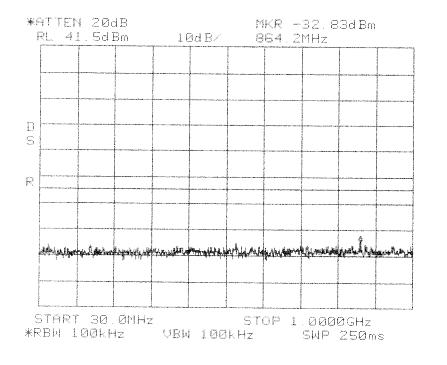
Intermodulation Apart TDMA PCS 1900 MHz AD Band



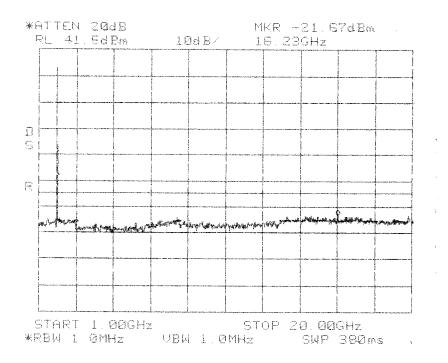
Intermodulation Apart TDMA PCS 1900 MHz AD Band

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

Intermodulation Close Lower GSM PCS 1900 MHz AD Band

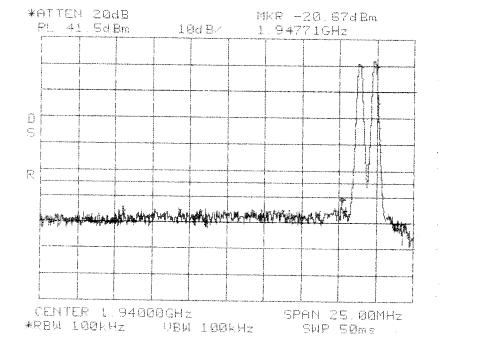


Intermodulation Close Lower GSM PCS 1900 MHz AD Band

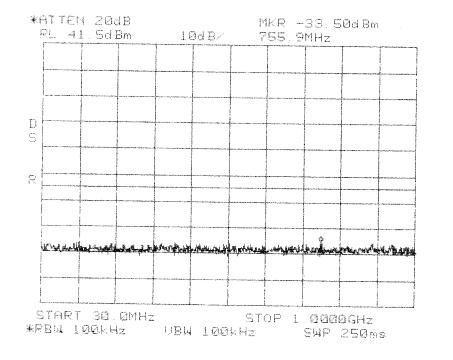


Intermodulation Close Lower GSM PCS 1900 MHz AD Band

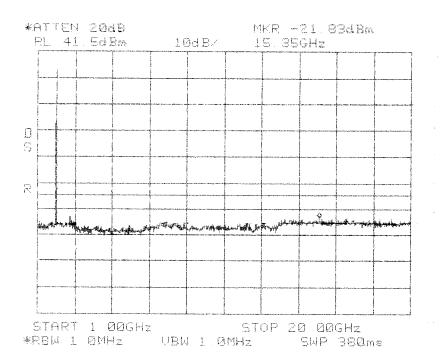
Center: 1940.0 MHz Span: 25 MHz RBW/VBW: 100 kHz



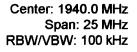
Intermodulation Close Upper GSM PCS 1900 MHz AD Band

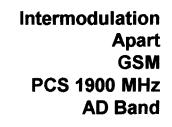


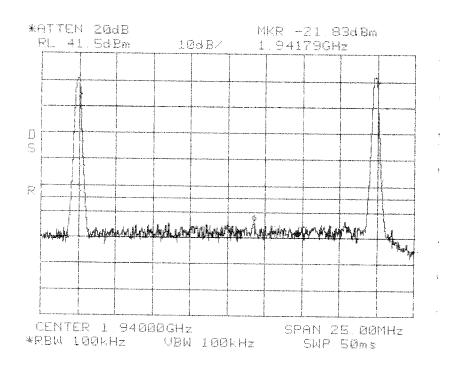
Intermodulation Close Upper GSM PCS 1900 MHz AD Band

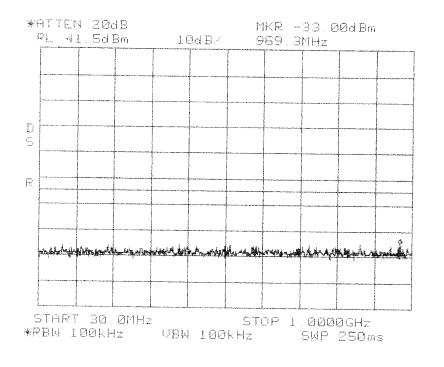


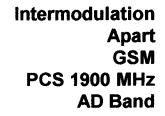
Intermodulation Close Upper GSM PCS 1900 MHz AD Band

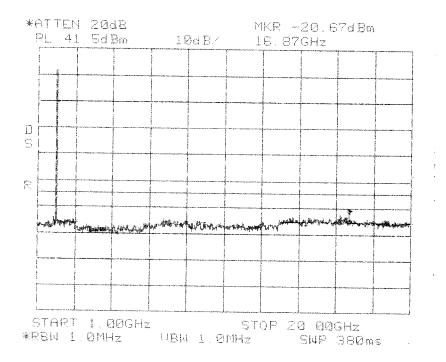






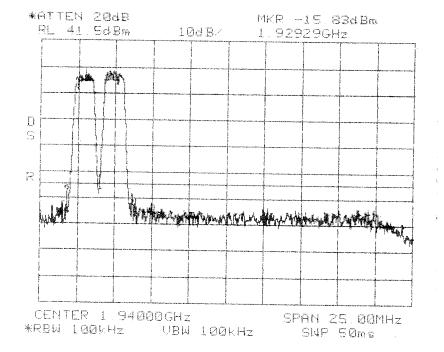




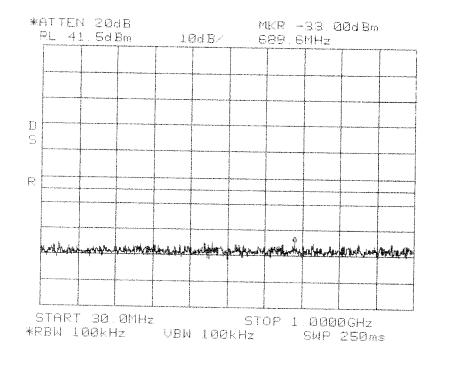


Intermodulation Apart GSM PCS 1900 MHz AD Band

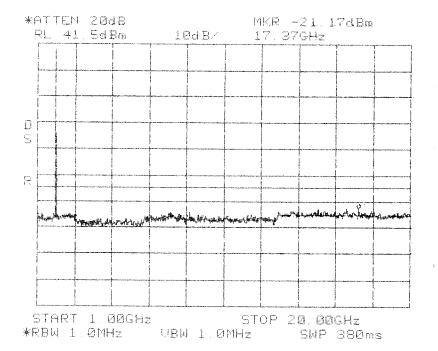
Center: 1940.0 MHz Span: 25 MHz RBW/VBW: 100 kHz



Intermodulation Close Lower CDMA PCS 1900 MHz AD Band

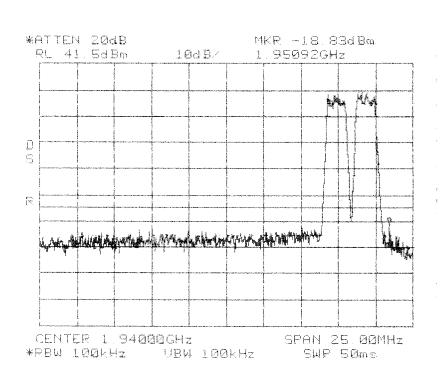


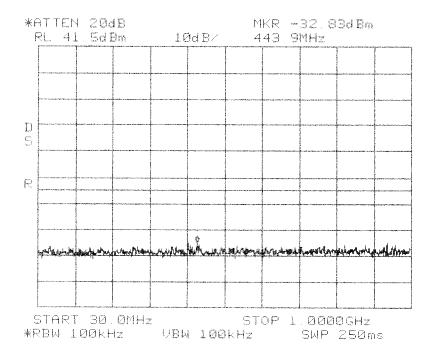
Intermodulation Close Lower CDMA PCS 1900 MHz AD Band



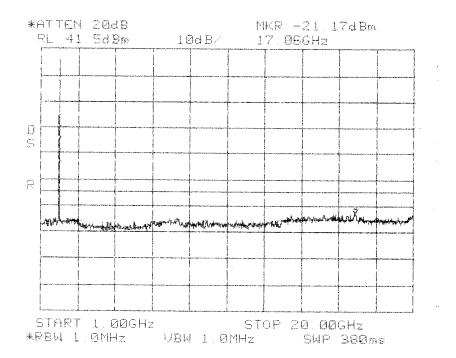
Intermodulation Close Lower CDMA PCS 1900 MHz AD Band

Intermodulation Close Upper CDMA PCS 1900 MHz AD Band





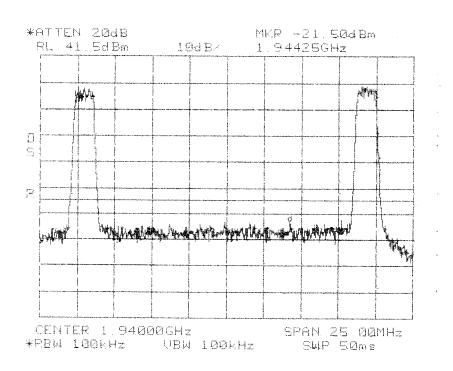
Intermodulation Close Upper CDMA PCS 1900 MHz AD Band

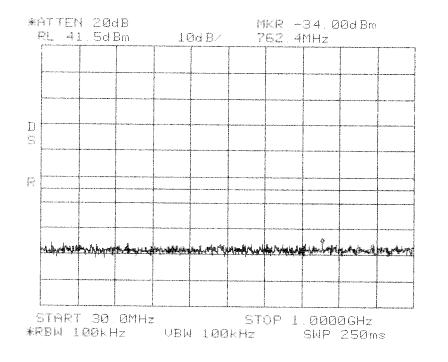


Intermodulation Close Upper CDMA PCS 1900 MHz AD Band

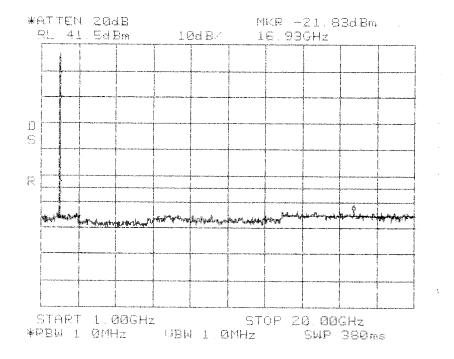
Center: 1940.0 MHz Span: 25 MHz RBW/VBW: 100 kHz

Intermodulation Apart CDMA PCS 1900 MHz AD Band



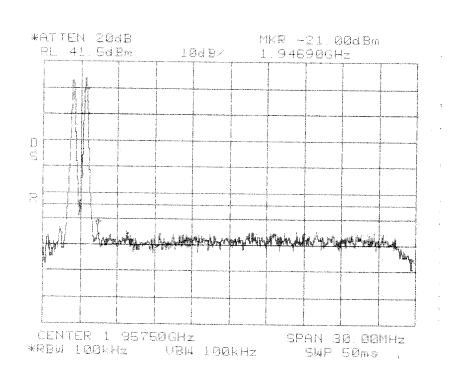


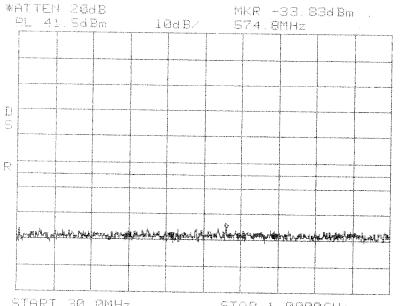
Intermodulation Apart CDMA PCS 1900 MHz AD Band



Intermodulation Apart CDMA PCS 1900 MHz AD Band

Intermodulation Close Lower TDMA PCS 1900 MHz DBE Band



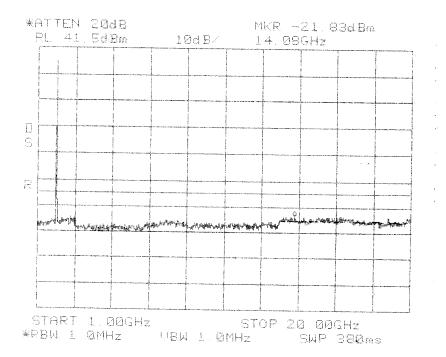


Intermodulation Close Lower TDMA PCS 1900 MHz DBE Band

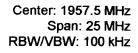
START 30.0MHz STOP 1.0000GHz \*RBW 100kHz VBW 100kHz SWP 250ms

Intermodulation

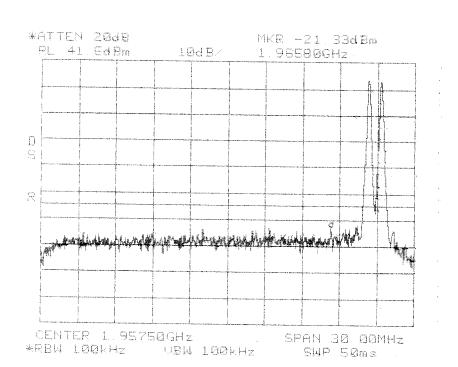
Close

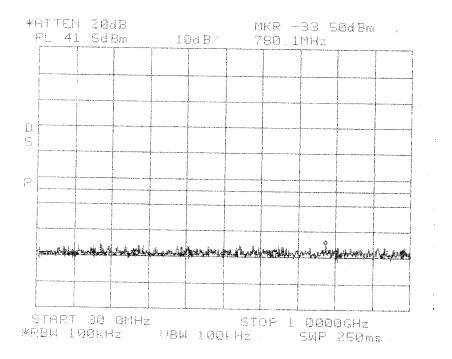


Lower TDMA PCS 1900 MHz DBE Band



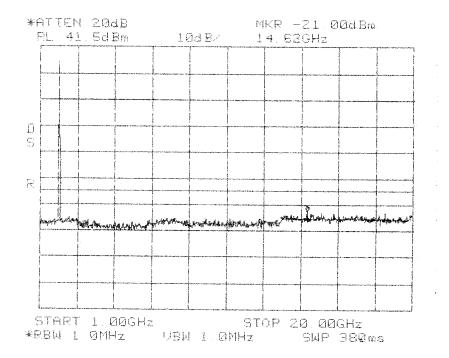






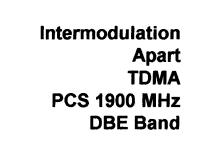
Intermodulation Close Upper TDMA PCS 1900 MHz DBE Band

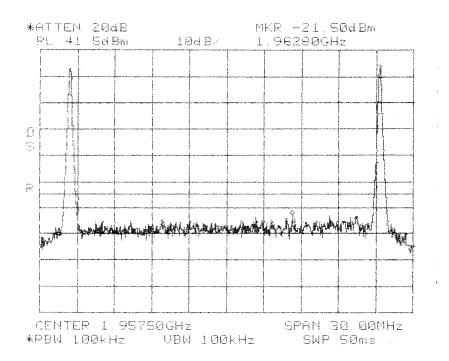
## Span: 1 GHz to 20 GHz RBW/VBW: 1 MHz

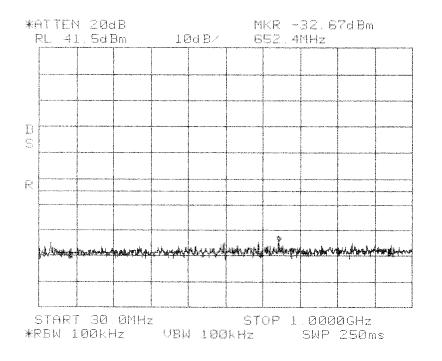


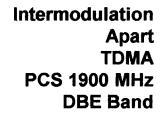
Intermodulation Close Upper TDMA PCS 1900 MHz DBE Band

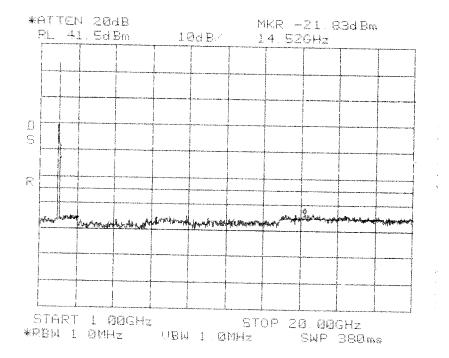
Center: 1957.5 MHz Span: 25 MHz RBW/VBW: 100 kHz





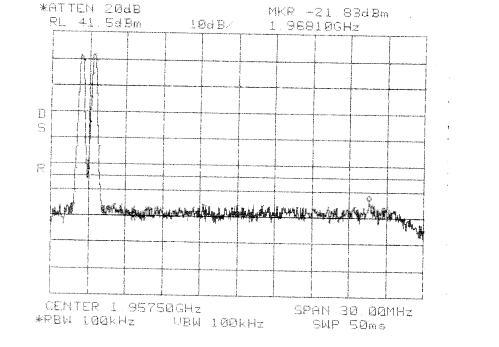




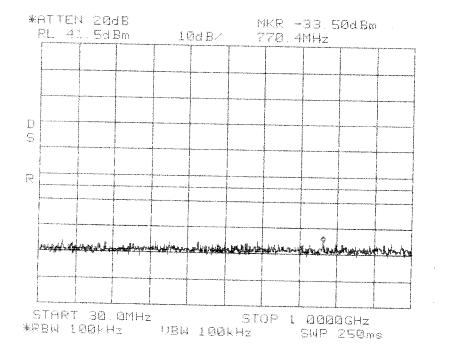


Intermodulation Apart TDMA PCS 1900 MHz DBE Band

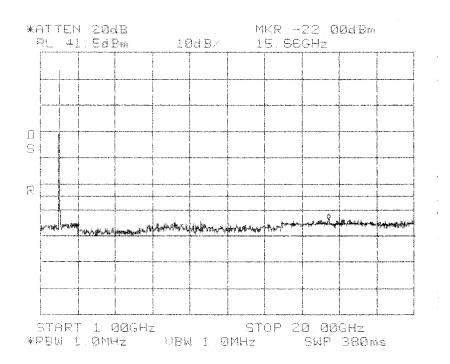
Center: 1957.5 MHz Span: 25 MHz RBW/VBW: 100 kHz



Intermodulation Close Lower GSM PCS 1900 MHz DBE Band

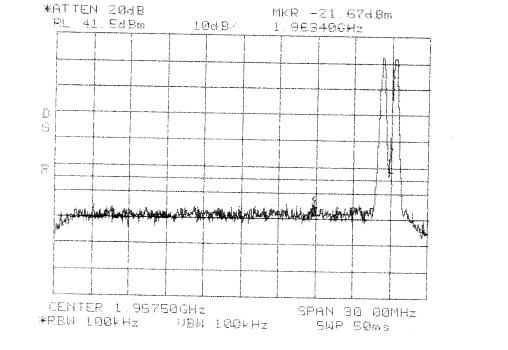


Intermodulation Close Lower GSM PCS 1900 MHz DBE Band

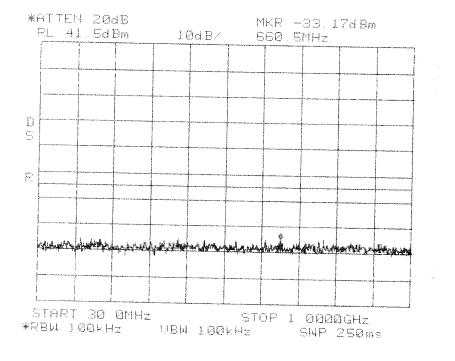


Intermodulation Close Lower GSM PCS 1900 MHz DBE Band

Center: 1957.5 MHz Span: 25 MHz RBW/VBW: 100 kHz



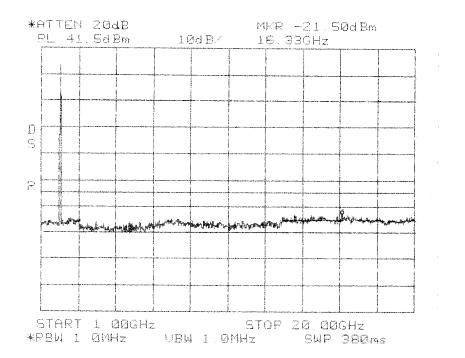
Intermodulation Close Upper GSM PCS 1900 MHz DBE Band



Intermodulation Close Upper GSM PCS 1900 MHz DBE Band

Span: 30 MHz to 1 GHz RBW/VBW: 100 kHz

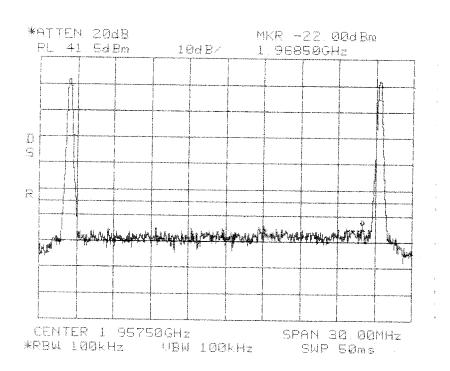
I

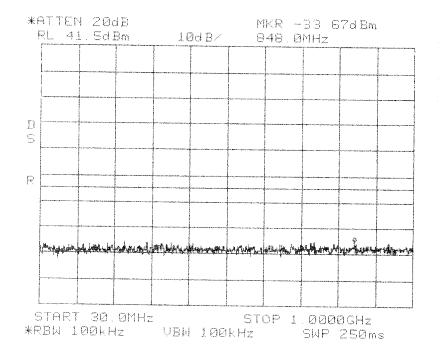


Intermodulation Close Upper GSM PCS 1900 MHz DBE Band

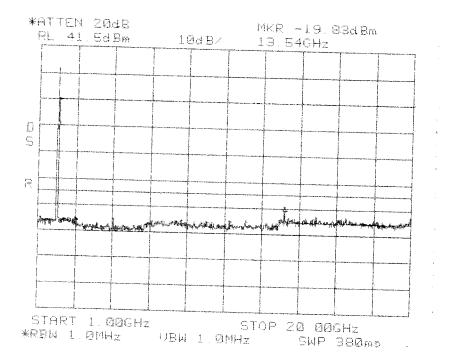
Center: 1957.5 MHz Span: 25 MHz RBW/VBW: 100 kHz

Intermodulation Apart GSM PCS 1900 MHz DBE Band



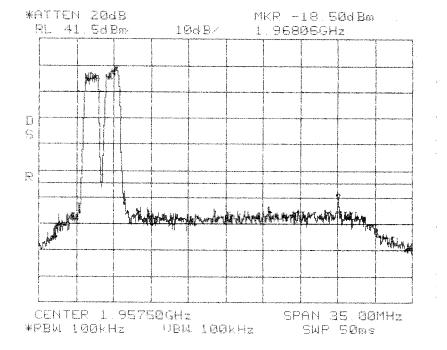




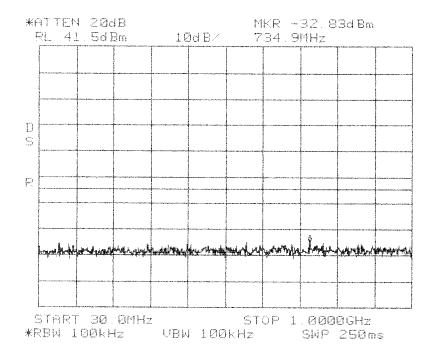


Intermodulation Apart GSM PCS 1900 MHz DBE Band

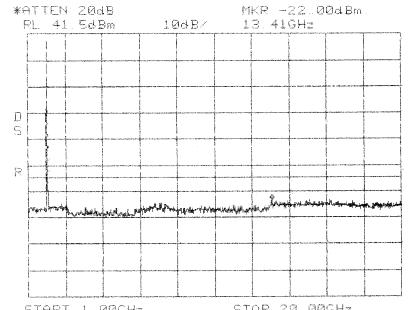
Center: 1957.5 MHz Span: 25 MHz RBW/VBW: 100 kHz



Intermodulation Close Lower CDMA PCS 1900 MHz DBE Band



Intermodulation Close Lower CDMA PCS 1900 MHz DBE Band



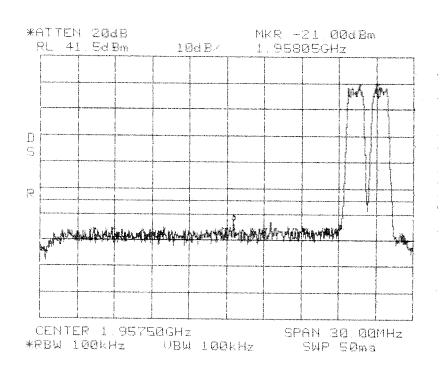
٢

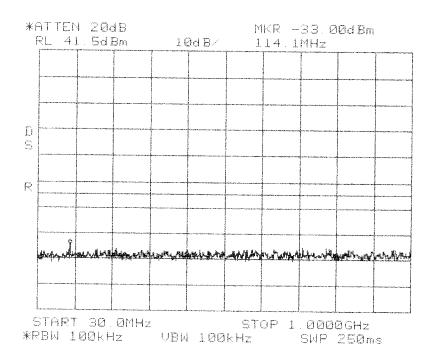
Intermodulation Close Lower CDMA PCS 1900 MHz DBE Band

START 1.00GHz STOP 20.00GHz \*RBW 1 0MHz UBW 1 0MHz SWP 380ms

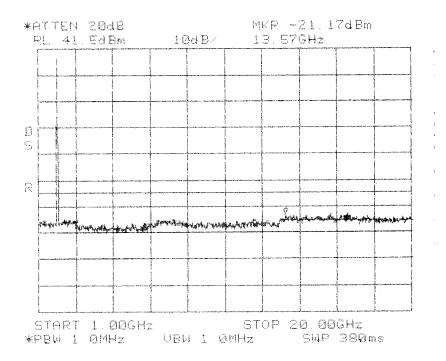
Center: 1957.5 MHz Span: 25 MHz RBW/VBW: 100 kHz

Intermodulation Close Upper CDMA PCS 1900 MHz DBE Band



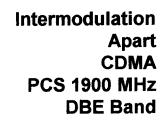


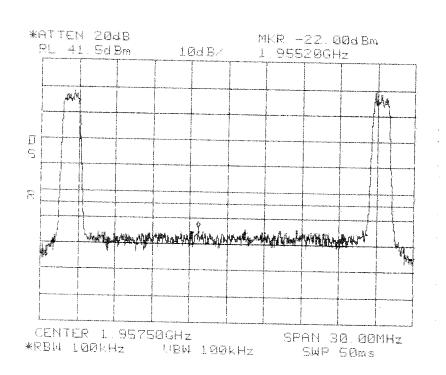
Intermodulation Close Upper CDMA PCS 1900 MHz DBE Band

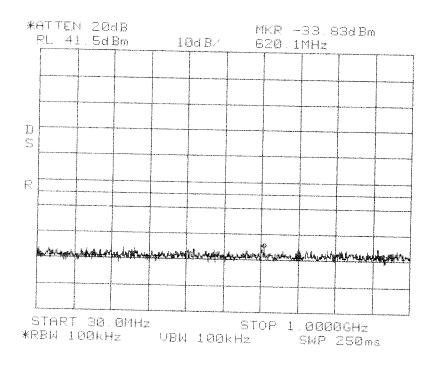


Intermodulation Close Upper CDMA PCS 1900 MHz DBE Band

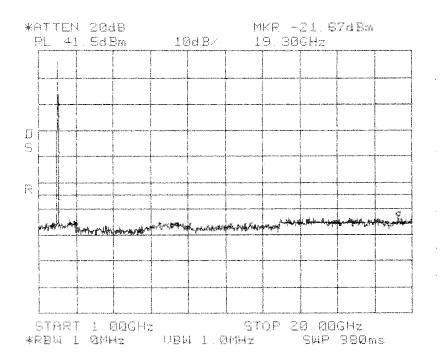
Center: 1957.5 MHz Span: 25 MHz RBW/VBW: 100 kHz



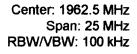


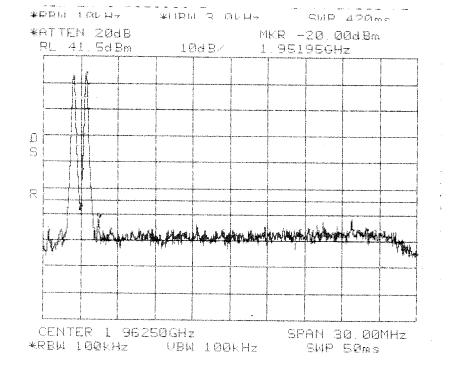


Intermodulation Apart CDMA PCS 1900 MHz DBE Band

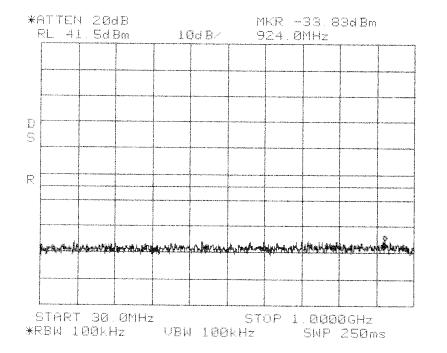


Intermodulation Apart CDMA PCS 1900 MHz DBE Band

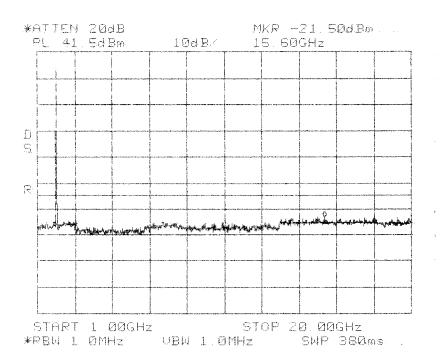




Intermodulation Close Lower TDMA PCS 1900 MHz BEF Band

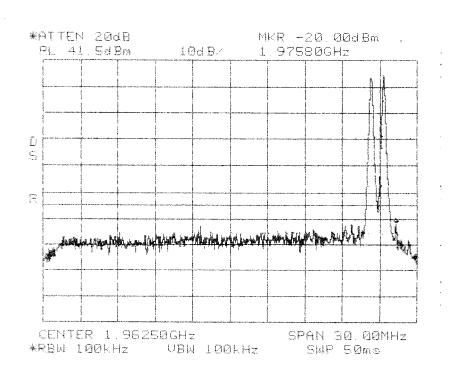


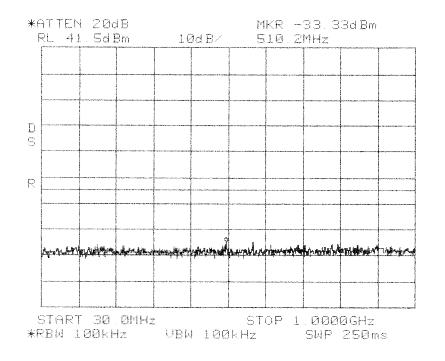
Intermodulation Close Lower TDMA PCS 1900 MHz BEF Band



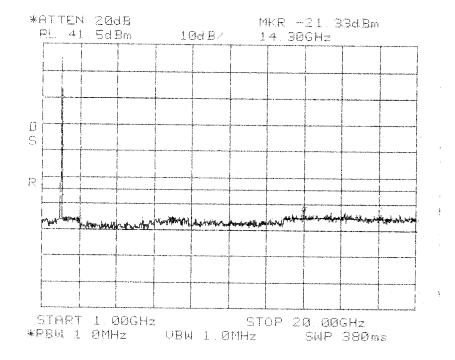
Intermodulation Close Lower TDMA PCS 1900 MHz BEF Band

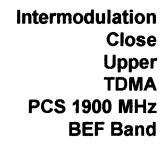
Intermodulation Close Upper TDMA PCS 1900 MHz BEF Band



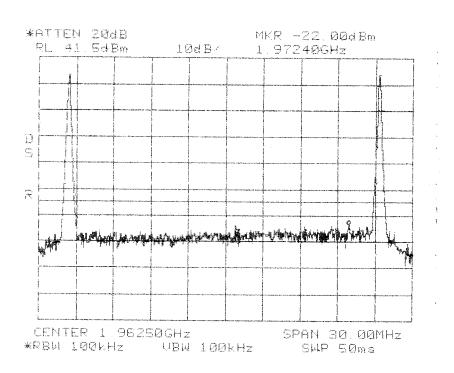


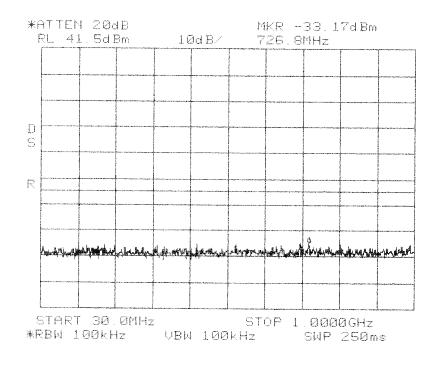
Intermodulation Close Upper TDMA PCS 1900 MHz BEF Band



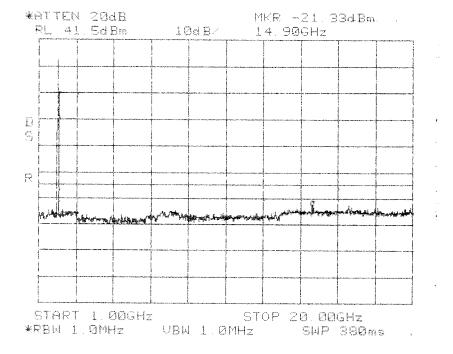


Intermodulation Apart TDMA PCS 1900 MHz BEF Band



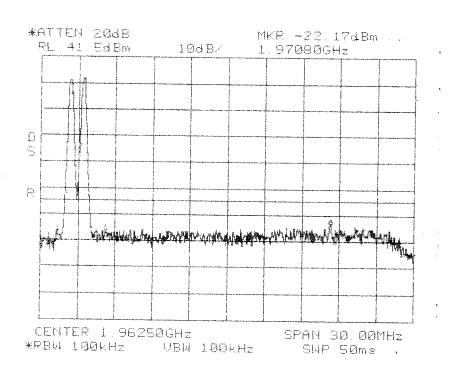


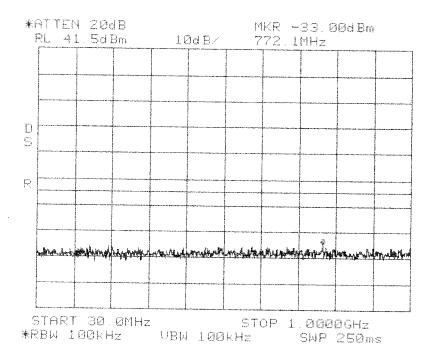
Intermodulation Apart TDMA PCS 1900 MHz BEF Band



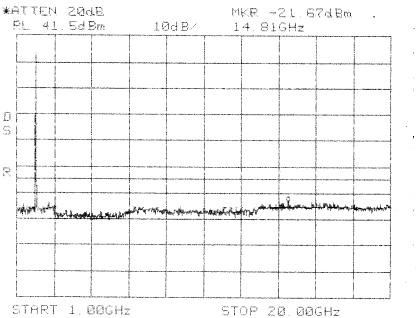
Intermodulation Apart TDMA PCS 1900 MHz BEF Band

Intermodulation Close Lower GSM PCS 1900 MHz BEF Band



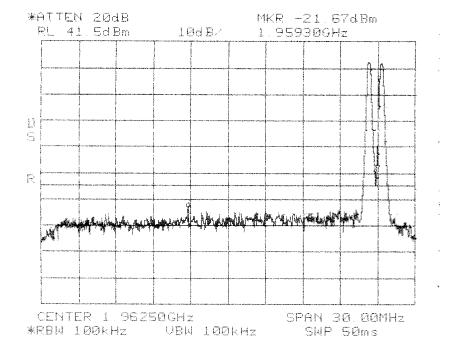


Intermodulation Close Lower GSM PCS 1900 MHz BEF Band

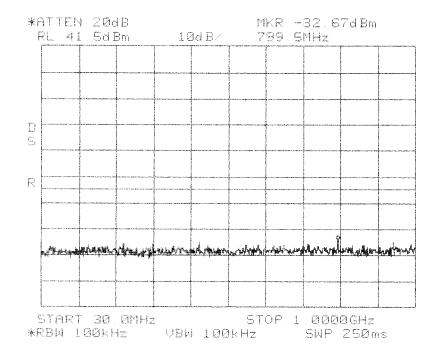


Intermodulation Close Lower GSM PCS 1900 MHz BEF Band

START 1.00GHz STOP 20.00GHz \*RBW 1.0MHz VBW 1.0MHz SWP 380ms

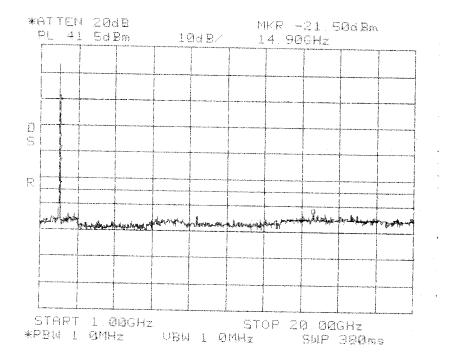


Intermodulation Close Upper GSM PCS 1900 MHz BEF Band



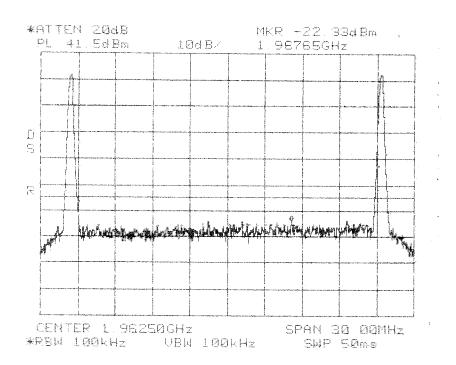
Intermodulation Close Upper GSM PCS 1900 MHz BEF Band

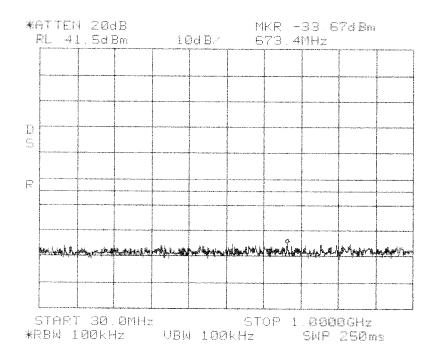
Span: 30 MHz to 1 GHz RBW/VBW: 100 kHz





Intermodulation Apart GSM PCS 1900 MHz BEF Band





Intermodulation Apart GSM PCS 1900 MHz BEF Band

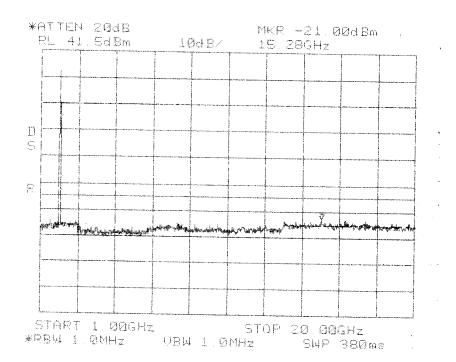
Intermodulation

PCS 1900 MHz

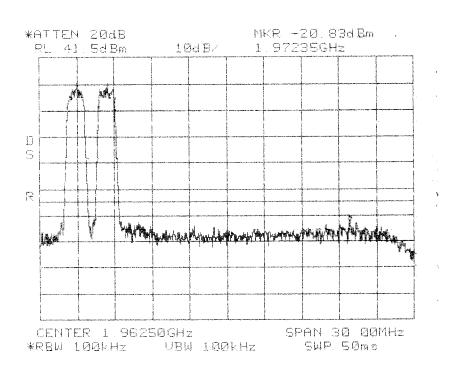
**BEF Band** 

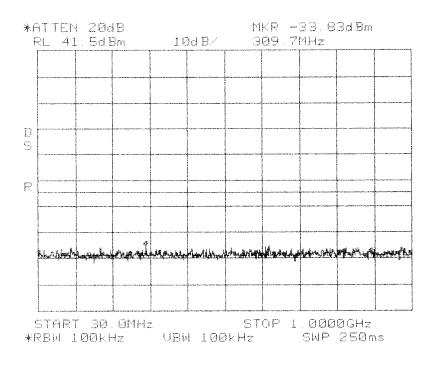
Apart

GSM

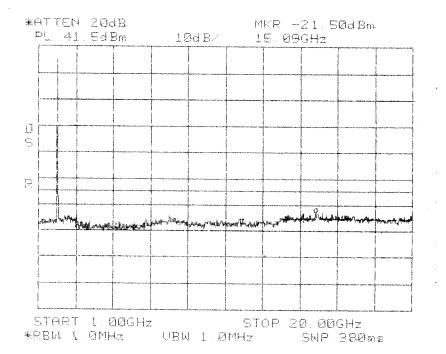


Intermodulation Close Lower CDMA PCS 1900 MHz BEF Band

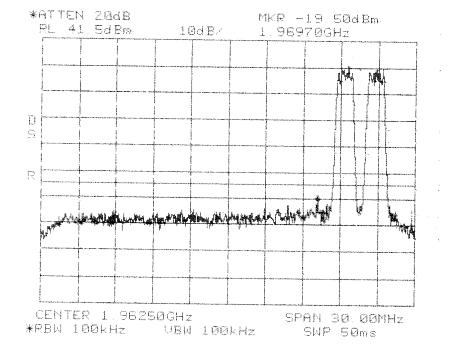




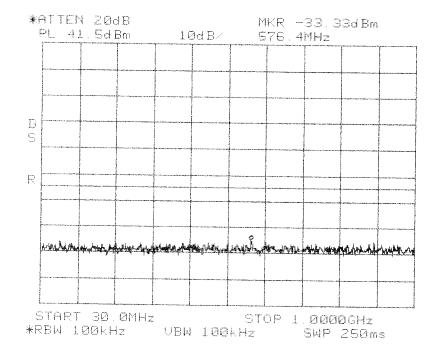
Intermodulation Close Lower CDMA PCS 1900 MHz BEF Band



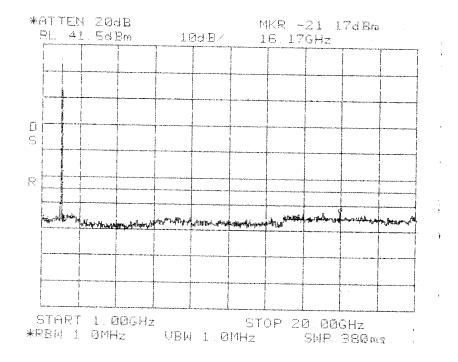
Intermodulation Close Lower CDMA PCS 1900 MHz BEF Band



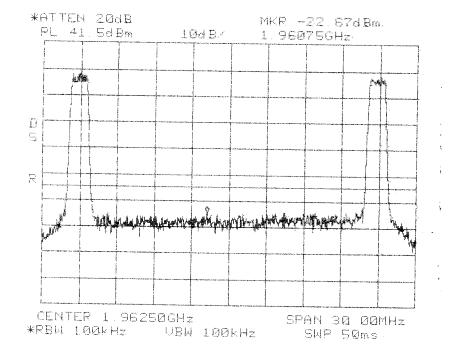
Intermodulation Close Upper CDMA PCS 1900 MHz BEF Band



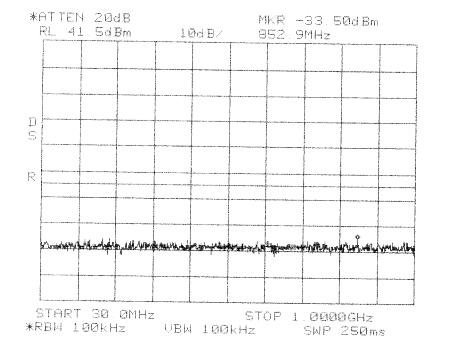
Intermodulation Close Upper CDMA PCS 1900 MHz BEF Band



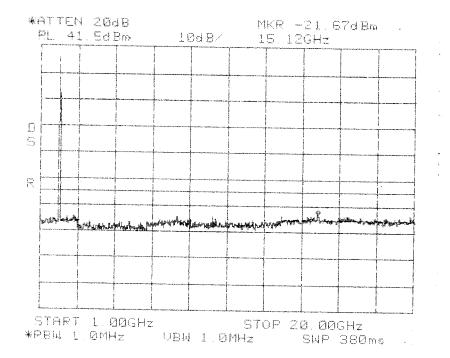
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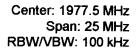
Intermodulation Apart CDMA PCS 1900 MHz BEF Band

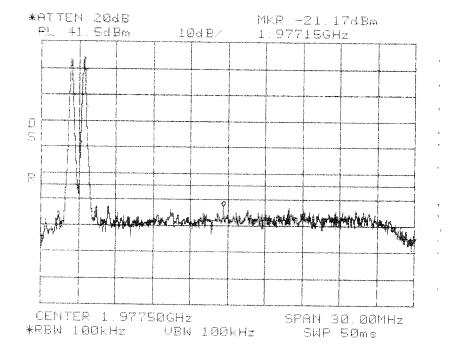


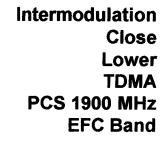
Intermodulation Apart CDMA PCS 1900 MHz BEF Band

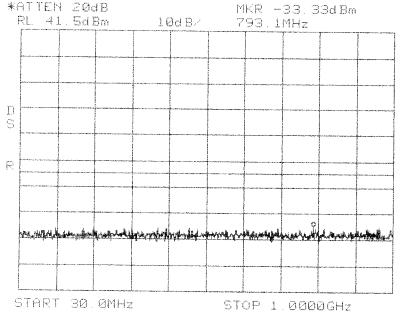


Intermodulation Apart CDMA PCS 1900 MHz BEF Band

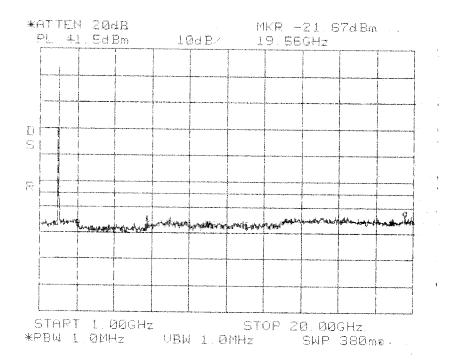




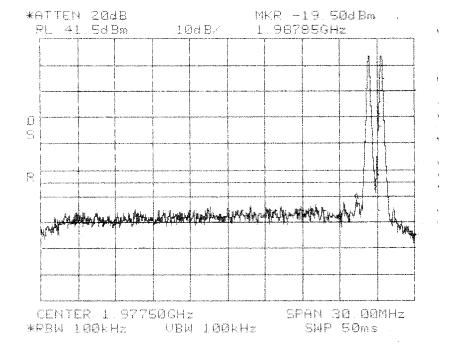




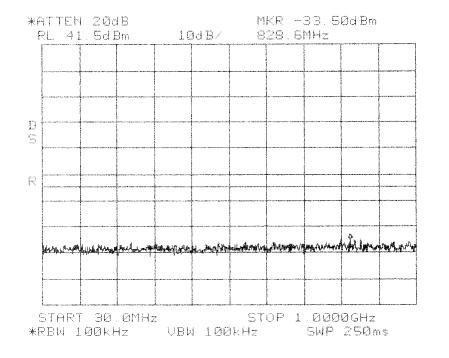
STOP 1.0000GHz \*RBW 100kHz VBW 100kHz SWP 250ms Intermodulation Close Lower **TDMA PCS 1900 MHz EFC Band** 



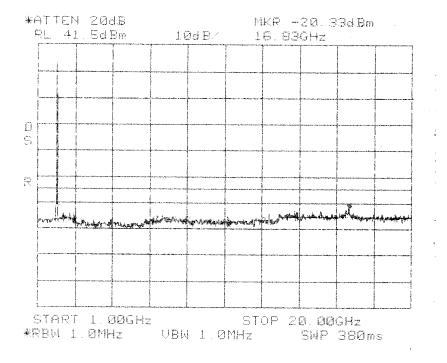
Intermodulation Close Lower TDMA PCS 1900 MHz EFC Band



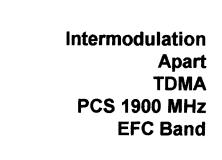
Intermodulation Close Upper TDMA PCS 1900 MHz EFC Band

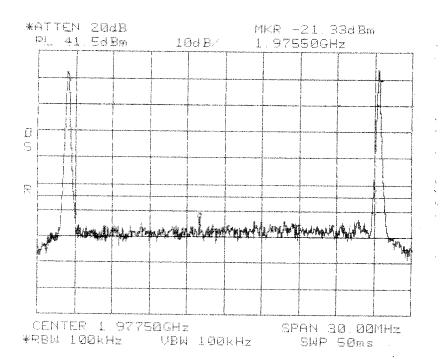


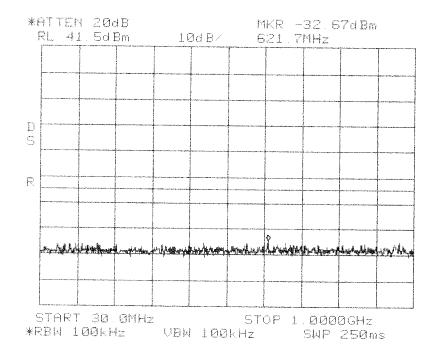
Intermodulation Close Upper TDMA PCS 1900 MHz EFC Band



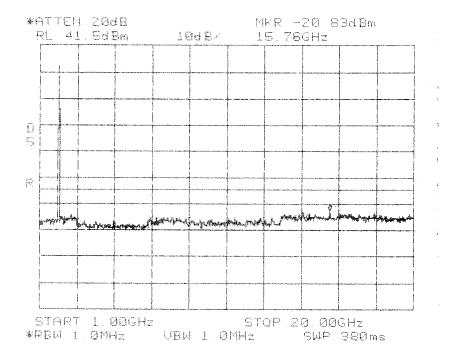
Intermodulation Close Upper TDMA PCS 1900 MHz EFC Band



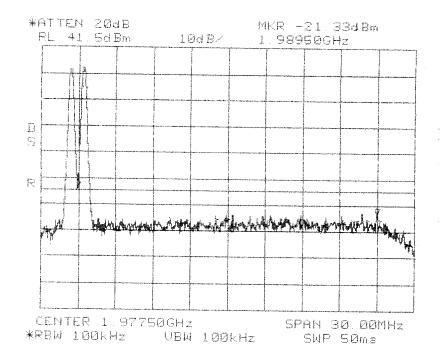




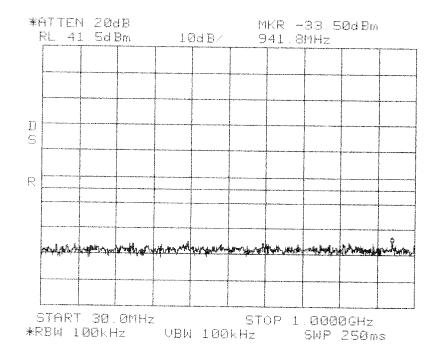
Intermodulation Apart TDMA PCS 1900 MHz EFC Band



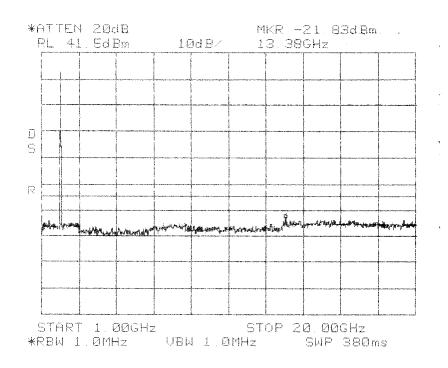
Intermodulation Apart TDMA PCS 1900 MHz EFC Band



Intermodulation Close Lower GSM PCS 1900 MHz EFC Band

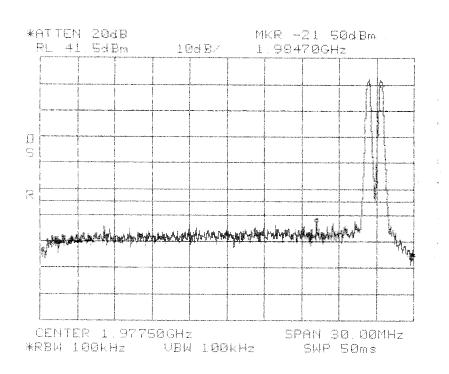


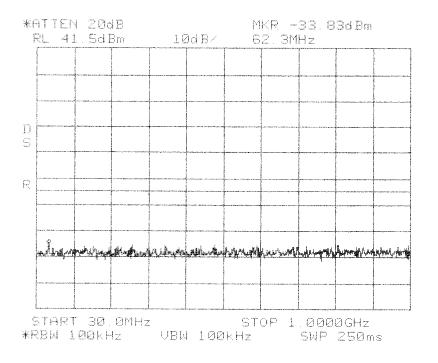
Intermodulation Close Lower GSM PCS 1900 MHz EFC Band



Intermodulation Close Lower GSM PCS 1900 MHz EFC Band

Intermodulation Close Upper GSM PCS 1900 MHz EFC Band







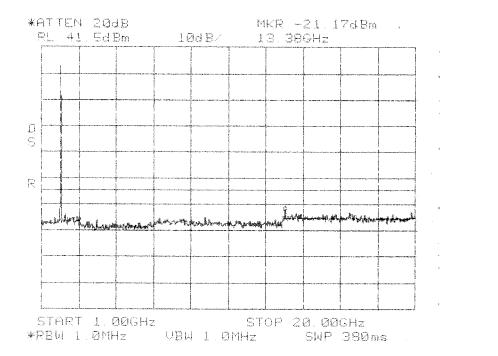
Intermodulation

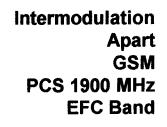
**PCS 1900 MHz** 

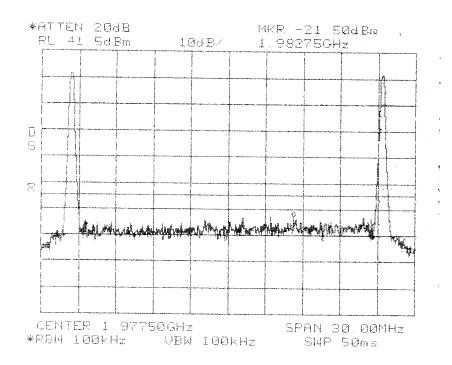
**EFC Band** 

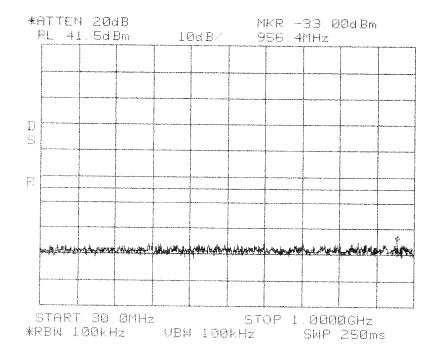
Close Upper

GSM

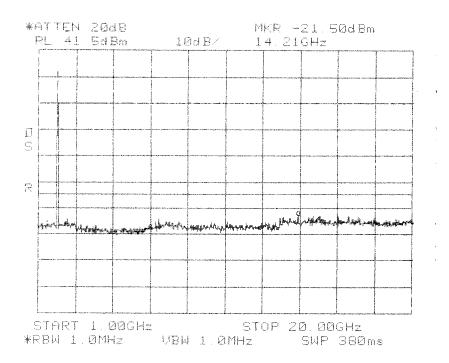






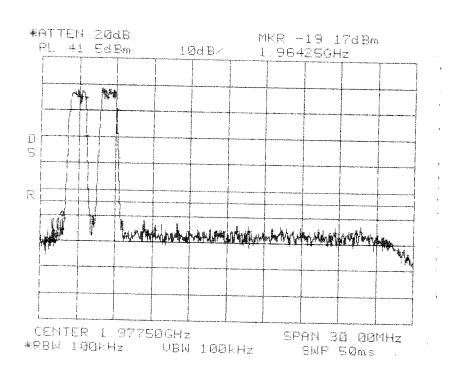


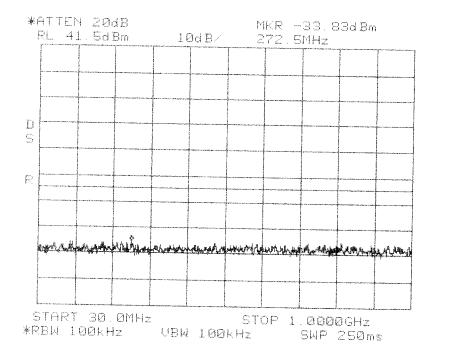
Intermodulation Apart GSM PCS 1900 MHz EFC Band



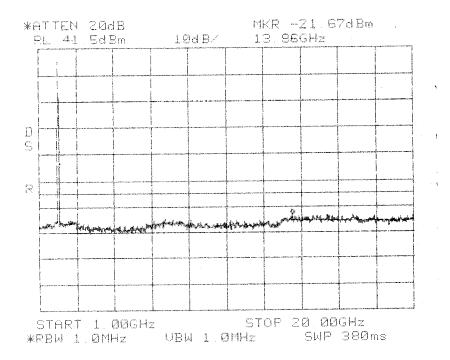
Intermodulation Apart GSM PCS 1900 MHz EFC Band

Intermodulation Close Lower CDMA PCS 1900 MHz EFC Band



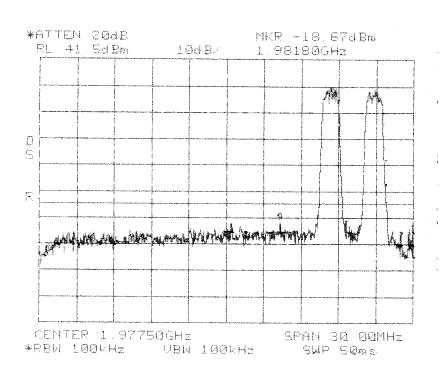


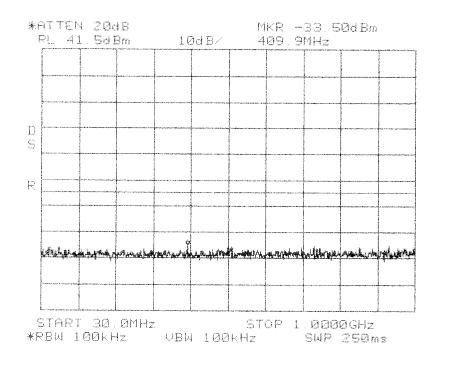
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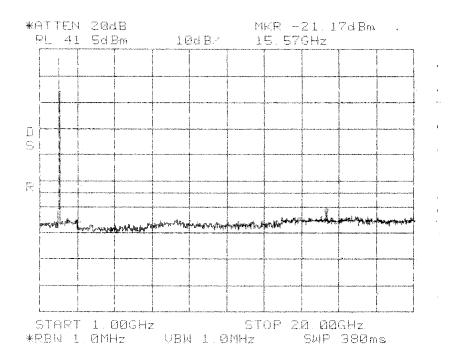
Intermodulation Close Lower CDMA PCS 1900 MHz EFC Band

Intermodulation Close Upper CDMA PCS 1900 MHz EFC Band



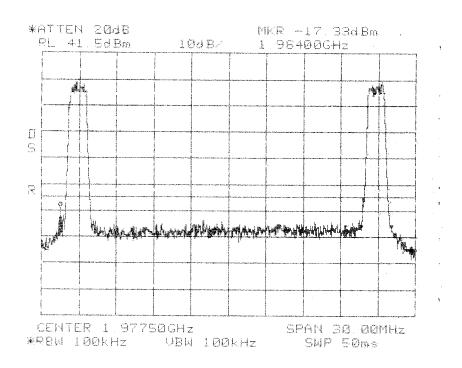


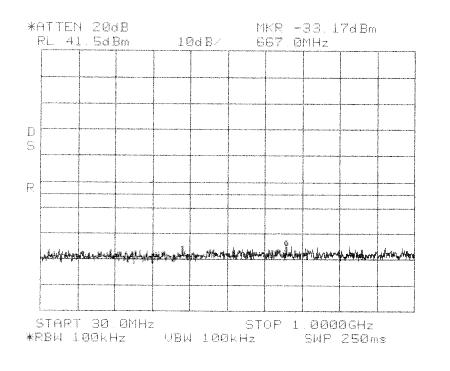
Intermodulation Close Upper CDMA PCS 1900 MHz EFC Band



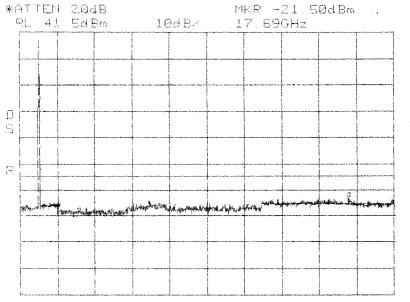
Intermodulation Close Upper CDMA PCS 1900 MHz EFC Band

Intermodulation Apart CDMA PCS 1900 MHz EFC Band





Intermodulation Apart CDMA PCS 1900 MHz EFC Band



Intermodulation Apart CDMA PCS 1900 MHz EFC Band

٠,

STAR	T	1.00GHz			STOP	20.00	GHz
*PBM	1	ØMHz	$\Box B M$	.1	ØMHz	SMP	380ms.



# Appendix B

Constructional Data Form

Rev B

TÜV AMERICA INC

19333 Wild Mountain Road

Taylors Falls MN 55084-1758

File No. WC505741, Page B1 of B9

Fax: 651 638 0298

Tel: 651 638 0297

112205



PLEASE COMPLETE TH	PLEASE COMPLETE THIS DOCUMENT IN FULL, ENTERING N/A IF THE FIELD IS NOT APPLICABLE.					
<b>Applicant</b> NOTE: This information will be input into your test report as shown below. Press the F1 key at any time to get HELP for the current field selected.						
Company:	ADC					
Address:	P.O. Box	1101				
	Minneapo	lis, MN 55440-1	101			
Contact:	Mark F. M	liska		Positio	n: <u>C</u>	Compliance Engineer
Phone:	952-403-8	340		Fax:	g	52-403-8858
E-mail Address:	mark.misk	a@adc.com				
General Equipment	Descriptio	n NOTE: This in	forma	tion will be inp	out into y	our test report as shown below.
EUT Description	Transport	s RF between a	remo	te antenna a	and bas	e station.
EUT Name	Digivance	® Street Covera	ge S	olution 1900	) MHz S	ystem
Model No.:	DGVC-44 DGVC-45	1X0000100SYS, 1X0000100SYS, 1X0000100SYS, 1X0000100SYS		Serial	No.: N	lone
Product Options:		None				
Configurations to be	tested:	PCS 1900 MHz	z AD,	DBE, BEF,	and EF	C Band Systems
Test Objective						
EMC Directive 89	/336/EEC (	EMC)		FCC:	Class	🗌 A 🗌 B Part
Std:				VCCI:	Class	🗆 А 🗌 В
Machinery Directi	ve 89/392/E	EC (EMC		BCIQ:	Class	🗆 А 🗌 В
Std:				Canada:	Class	🗆 А 🗌 В
Medical Device Directive 93/42/EEC (EMC)				Australia:	Class	🗆 А 🗌 В
Std: Vehicle Directive Std: FDA Reviewers G		. ,		Other:	FCC Pa	art 24
Notification Submissions (EMC)						

FILE: EMCU\_F09.02E, REVISION 0, Effective: October 26, 1999



TÜV Product Service Certification Requested							
Attestation of Conformity (AoC)							
Certificate of Conformity (CoC)							
Protection Class (N/A for vehicles)							
(Press F1 when field is selected to show additional information on Protection Class.)							
Attendance							
Test will be: Attended by the customer Unattended by the customer							
Failure - Complete this section if testing will not be attended by the customer.							
If a failure occurs, TUV Product Service should:       (After hrs phone):         Call contact listed above, if not available then stop testing.       (After hrs phone):         Continue testing to complete test series.							
<ul> <li>Continue testing to define corrective action.</li> <li>Stop testing.</li> </ul>							
EUT Specifications and Requirements							
Length:    29"    Width:    10"    Height:    6"    Weight:    62 LBS							
Power Requirements							
Regulations require testing to be performed at typical power ratings in the countries of intended use. (i.e., European power is typically 230 VAC 50 Hz or 400 VAC 50 Hz, single and three phase, respectively)							
Voltage: <u>115 VAC</u> (If battery powered, make sure battery life is sufficient to complete testing.)							
# of Phases: 1							
CurrentCurrent(Amps/phase(max)):6.8(Amps/phase(nominal)):4.2							
Other							
Other Special Requirements							
none							

## Typical Installation and/or Operating Environment

(ie. Hospital, Small Business, Industrial/Factory, etc.) Host indoor only with Remote Unit indoor or outdoor. System is typically employed as a Microcell.



EUT Power Cable								
	Permanent	OR	$\boxtimes$	Removable	Length (in meters):	1		
	Shielded	OR	$\boxtimes$	Unshielded				
	Not Applicable	е						

FILE: EMCU\_F09.02E, REVISION 0, Effective: October 26, 1999



Interface				Shielding							
Туре	Analog	Digital	Qty	Yes	No	Туре	Termination	Connector Type	Port Termination	Length (in meters)	Removable
EXAMPLE:								Metallized 9-	Characteristic		
RS232		×	2	×		Foil over braid	Coaxial	pin D-Sub	Impedance	6	
RF "N" type			3			Braid	Coaxial	N	50 Ohms	>3	
Alarm			1			Not Specified	Coaxial	6 Pin Standoff		>3	
Fiber			2			N/A	N/A	S/C	N/A	>3	
Fiber			1			N/A	N/A	Opti-Tap	N/A	>3	
9 Pin Din			4			Not Specified	AC Coupled	Din		3	
AC Power			1			N/A				>3	
			1							1	
DC Power			1			Varied		Terminal		1	
Net In			1			Not Specified	CAT 5	RJ-45		3	
Net Out			1			Not Specified	CAT 5	RJ-45		3	

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EUT Software.	
Revision Level:	Version 3.01.04
Description:	Digivance Element Management System (DEMS). System Management and Interface Matching Software.

**EUT Operating Modes to be Tested --** list the operating modes to be used during test. It is recommended the equipment be tested while operating in a typical operation mode. FCC testing of personal computers and/or peripherals requires that a simple program generate a complete line of upper case H's. Provide a general description of all software, firmware, and PLD algorithms used in the equipment. List all code modules as described above, with the revision level used during testing. Consult with your TÜV Product Service Representative if additional assistance is required.

- 1. Max composite in and out
- 2.
- 3.

Description	Model #	Serial #	FCC ID #
Host Unit	DGVL-401000HU	None	
Digivance SCS 1900 MHz			
Models DGVC-431X00001 DGVC-441X0000100SYS, 451X0000100SYS, and DC	DGVC-		
461X0000100SYS consist HU, STM PCB, and LPA.			

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Support Equipment List and describe all support equipment which is not part of the EUT. (i.e. peripherals, simulators, etc)						
Description	Model #	Serial #	FCC ID #			
Signal Generator	Agilent E4436B	963739				
Power Supply	Xantrex HPD 60-5	MC 27764				

 Oscillator Frequencies

 Derived
 Description of Use

 Frequency
 Component # / Location
 Description of Use

 Image: Imag

Power Supply			
Manufacturer	Model #	Serial #	Туре
			Switched-mode: (Frequency) Linear Other:
			Switched-mode: (Frequency) Linear Other:

Power Line Filters					
Manufacturer	Model #	Location in EUT			
None					

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Critical EMI Components (Capacitors, ferrites, etc.)						
Description	Manufacturer	Part # or Value	Qty	Component # / Location		
None						
	•					

EMC Critical Detail -- Describe other EMC Design details used to reduce high frequency noise.

None

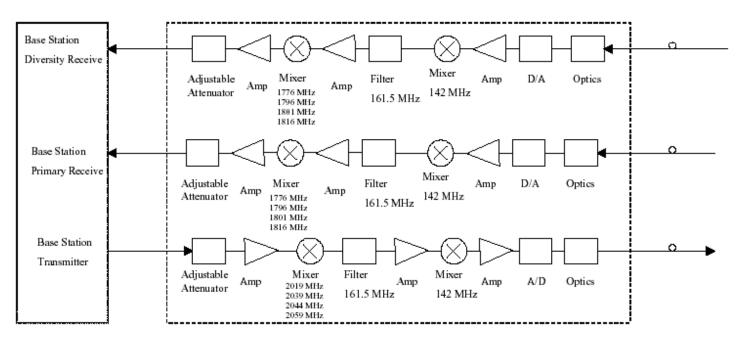
## (PLEASE INSERT "ELECTRONIC SIGNATURE" BELOW IF POSSIBLE) Authorization Signatures

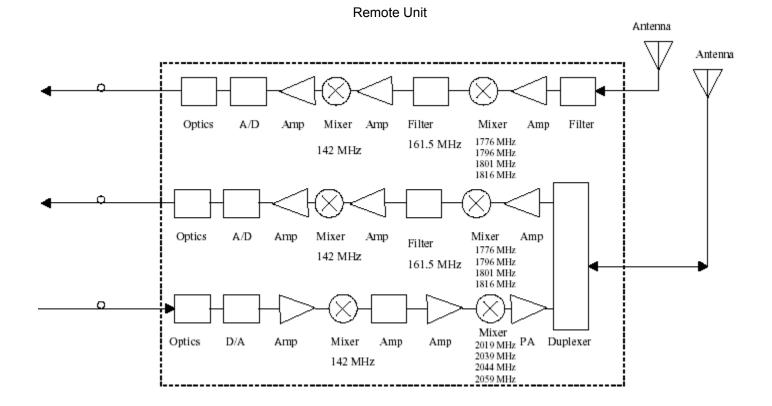
Customer authorization to perform tests according to this test plan.	Date
Test Plan/CDF Prepared By (please print)	Date
Reviewed by TÜV Product Service Associate	Date

FILE: EMCU\_F09.02E, REVISION 0, Effective: October 26, 1999

## Digivance 1900 MHz SCS

Host Unit





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# Appendix C Measurement Protocol File No. WC505741, Page C1 of C2 Rev B

Taylors Falls MN 55084-1758

TÜV AMERICA INC

19333 Wild Mountain Road

Tel: 651 638 0297

Fax: 651 638 0298 112205

## MEASUREMENT PROTOCOL

## Environmental conditions in the lab, (TUV)

Temperature: 22 °C Relative Humidity: 30 % Atmospheric pressure: 98.0 kPa

## Test Methodology

Emissions testing is performed according to the procedures in EIA/TIA 603.

### Measurement Uncertainty

The test system for conducted emissions is defined as the LISN, tuned receiver or spectrum analyzer, and coaxial cable. The test system has a measurement uncertainty of  $\pm 1.8$  dB. The test system for radiated emissions is defined as the antenna, the pre-amplifier, the spectrum analyzer and the coaxial cable. The test system has a measurement uncertainty of  $\pm 4.8$  dB. The equipment comprising the test systems is calibrated on an annual basis.

### **Justification**

The Equipment Under Test (EUT) is configured in a typical user arrangement in accordance with the manufacturer's instructions. A cable is connected to each available port and either terminated with a peripheral into its characteristic impedance or left unterminated. When appropriate, the cables are manually manipulated with respect to each other to obtain maximum emissions from the unit.

### **Radiated Emissions**

The final level, in  $dB\mu V/m$ , equals the reading from the spectrum analyzer (Level  $dB\mu V$ ), adding the antenna correction factor and cable loss factor (Factor dB) to it, and subtracting the preamp gain (and duty cycle correction factor, if applicable). This result then has the limit subtracted from it to provide the Delta, which gives the tabular data as shown in the data sheets in Attachment A.

Example:

FREQ	LEVEL	CABLE/ANT/PREAMP	FINAL	POL/HG	T/AZ	DELTA1
(MHz)	(dBuV)	(dB) (dB/m) (dB)	(dBuV/m)	(m)	(deg)	
60.80	42.5Qp +	1.2 + 10.9 - 25.5 =	29.1	V 1.0	0.0	-10.9

## Substitution Method

A radiated emission scan was also made, at TUV America's Wild River Lab Large Test Site, with the EUT's antenna replaced with a termination to demonstrate case radiation compliance to the –13 dBm requirement. Radiated emissions from the EUT are measured in the frequency range of 30 to 10000 MHz using a spectrum analyzer and appropriate broadband linearly polarized antennas. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimeters above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimeters to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimeters from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna is positioned 3 meters horizontally from the EUT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarizations and the EUT are rotated 360 degrees. The field strength levels were measured per ANSI C63.4. The EUT is then replaced with a tuned dipole antenna (below 1 GHz) or horn antenna (above 1 GHz). The substitute antenna was placed in the same polarization as the test antenna. A signal generator was used to generate a signal level that matched the highest level measured from the EUT. The signal generator level minus the cable loss from the signal generator to the substitute antenna gain equals the spurious power level.

#### Test Equipment

All measurement instrumentation is traceable to the National Institute of Standards and Technology and is calibrated according to internal procedure.

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TÜV AMERICA INC	19333 Wild Mountain Road	Taylors Falls MN 55084-1758	Tel: 651 638 0297	Fax: 651 638 0298	112205

