



# Nemko

**Test Report:**

3W06913

**Applicant:**

Coverage Solutions Corp  
2901 W.Busch Blvd  
Suite 900, Tampa  
FL 33618, USA

**Equipment Under Test:  
(EUT)**

BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B  
In-Building Repeaters

**In Accordance With:**

**FCC Part 24, Subpart E**

**Tested By:**

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

**Authorized By:**

Glen, Westwell, Wireless Technologist

**Date:**

14 March 2003

**Total Number of Pages:**

62

*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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## **Section 1. Summary of Test Results**

### **General**

**All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 24, Subpart E.

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST  
SPECIFICATIONS HAVE BEEN MADE. NONE  
See " Summary of Test Data".



TESTED BY: \_\_\_\_\_  
Kevin Carr, EMC Specialist

DATE: 14 March 2003

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This report applies only to the items tested.

*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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**Summary Of Test Data**

<b>Name Of Test</b>	<b>Para. No.</b>	<b>Result</b>
RF Power Output	2.1046	Complied
Occupied Bandwidth	2.1049	Complied
Spurious Emissions at Antenna Terminals	2.1051	Complied
Field Strength of Spurious Emissions	2.1053	Complied
Frequency Stability	2.1055	N/A

All Tests were conducted with the AGC circuitry enabled, and variable attenuator set to 0 dB.  
The EUT is a fl-fl amplifier, as such frequency stability was not performed.

**Test Conditions:**

BDA-PCS/A-1/1W-80-B

**Indoor**                      Temperature: 20°C  
                                    Humidity:     30%

**Outdoor**                    Temperature: 0°C  
                                    Humidity:     51%

BDA-PCS/C-1/1W-80-B

**Indoor**                      Temperature: 20°C  
                                    Humidity:     30%

**Outdoor**                    Temperature: 0°C  
                                    Humidity:     51%

*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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## **Section 2.        General Equipment Specification**

<b>Manufacturer:</b>	Coverage Solutions Corp.
<b>Model No.:</b>	BDA-PCS/A-1/1W-80-B
<b>Serial No.:</b>	03011032
<b>Date Received In Laboratory:</b>	3 Mar. 2003
<b>Nemko Identification No.:</b>	1, 3W06913
<b>Supply Input Voltage:</b>	120VAC, 60Hz
<b>Frequency Range:</b>	Uplink:    1850 – 1865 MHz Downlink: 1930 – 1945 MHz
<b>RF Output (Rated):</b>	25.0 dBm, 316.2 mW
<b>RF Output (Measured):</b>	Downlink, CDMA: 24.8 dBm, 302.0 mW Downlink, TDMA: 24.8 dBm, 302.0 mW Downlink, GSM:    24.8 dBm, 302.0 mW  Uplink, CDMA:    24.8 dBm, 302.0 mW Uplink, TDMA:    24.8 dBm, 302.0 mW Uplink, GSM:      24.8 dBm, 302.0 mW
<b>Emission Designator:</b>	CDMA, DXW TDMA, F9W GSM, GXW

*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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**General Equipment Specifications: Cont.**

<b>Manufacturer:</b>	Coverage Solutions Corp.
<b>Model No.:</b>	BDA-PCS/C-1/1W-80-B
<b>Serial No.:</b>	03011028
<b>Date Received In Laboratory:</b>	5 Mar. 2003
<b>Nemko Identification No.:</b>	1, 3W06914
<b>Supply Input Voltage:</b>	120VAC, 60Hz
<b>Frequency Range:</b>	Uplink: 1895 – 1910 MHz Downlink: 1975 – 1990 MHz
<b>RF Output (Rated):</b>	25.0 dBm, 316.2 mW
<b>RF Output (Measured):</b>	Downlink, CDMA: 24.7 dbm, 295.1 mW Downlink, TDMA: 24.7 dbm, 295.1 mW Downlink, GSM: 24.7 dbm, 295.1 mW  Uplink, CDMA: 24.7 dbm, 295.1 mW Uplink, TDMA: 24.7 dbm, 295.1 mW Uplink, GSM: 24.7 dbm, 295.1 mW
<b>Emission Designator:</b>	CDMA, DXW TDMA, F9W GSM, GXW

*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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### **Section 3. RF Power Output**

**Para. No.: 2.1046**

<b>Test Performed By: Kevin Carr</b>	<b>Date of Test: 5 March 2003</b>
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**Minimum Standard:** Para. No.: 24.232.

**Test Results:** Complied.

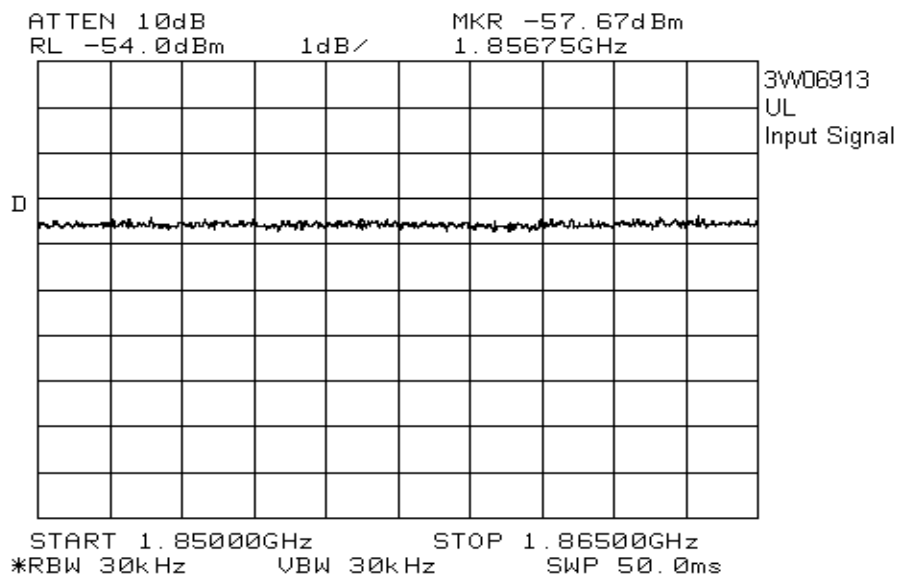
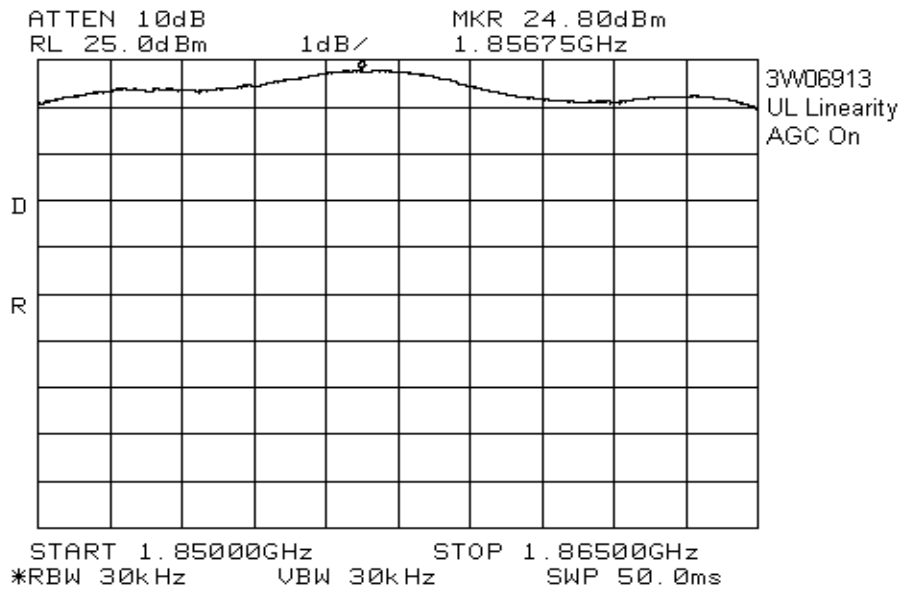
**Measurement Data:** See attached graphs, The maximum RF output power is within +/- 1 dB of the manufacturer's rating, The RF output power is de-rated according to the number of channels via AGC and is equal to  $P_{max} - 10\log N$ .

$P_{max}$  = Max. RF output power  
N = Number of Channels

*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

**BDA-PCS/A-1/1W-80-B**

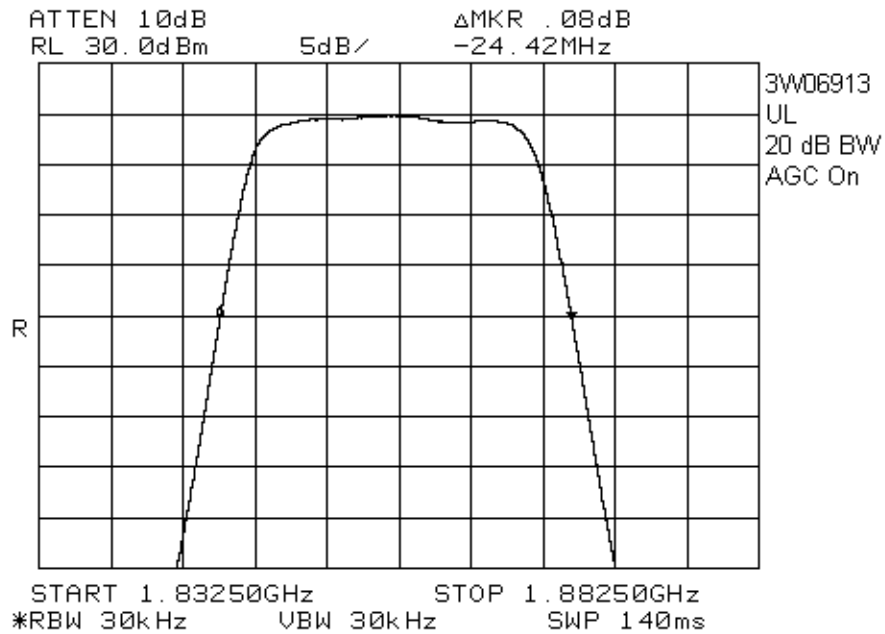
Uplink





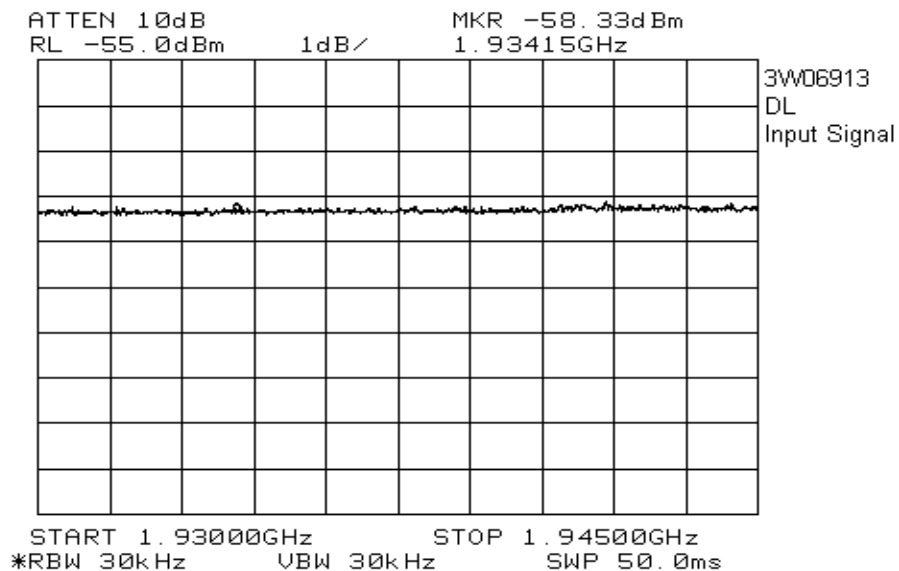
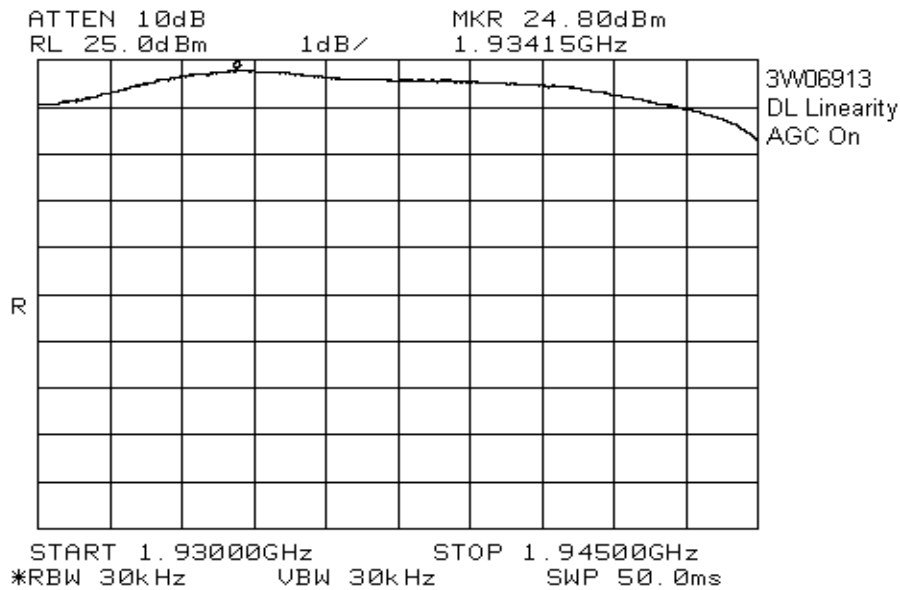
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BDA-PCS/C-1/1W-80-B, In-Building Repeaters

PassBand:



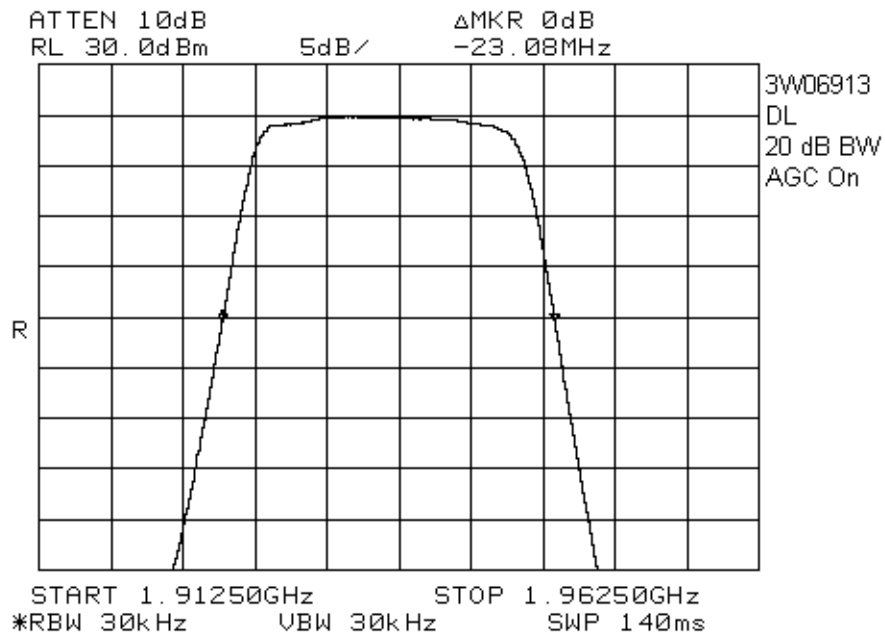
*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

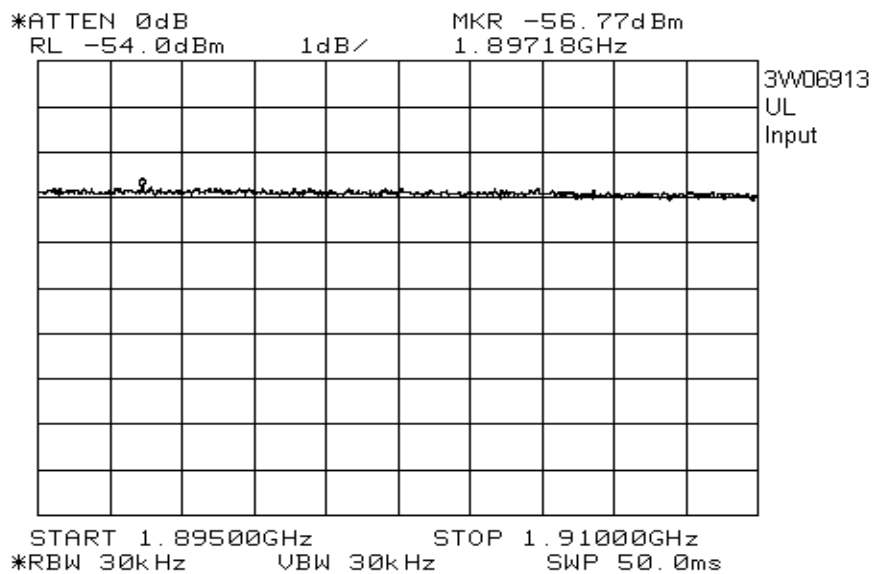
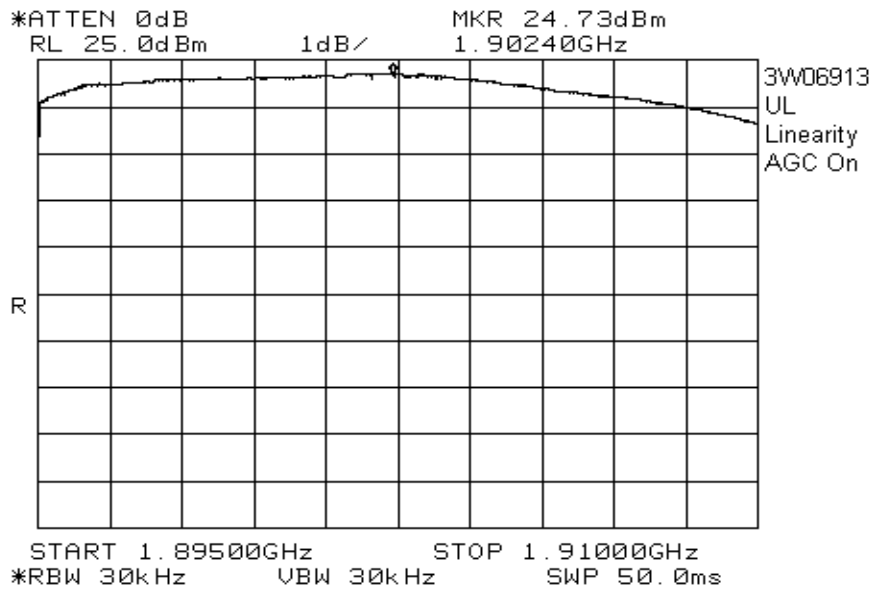
Passband:



EQUIPMENT: BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

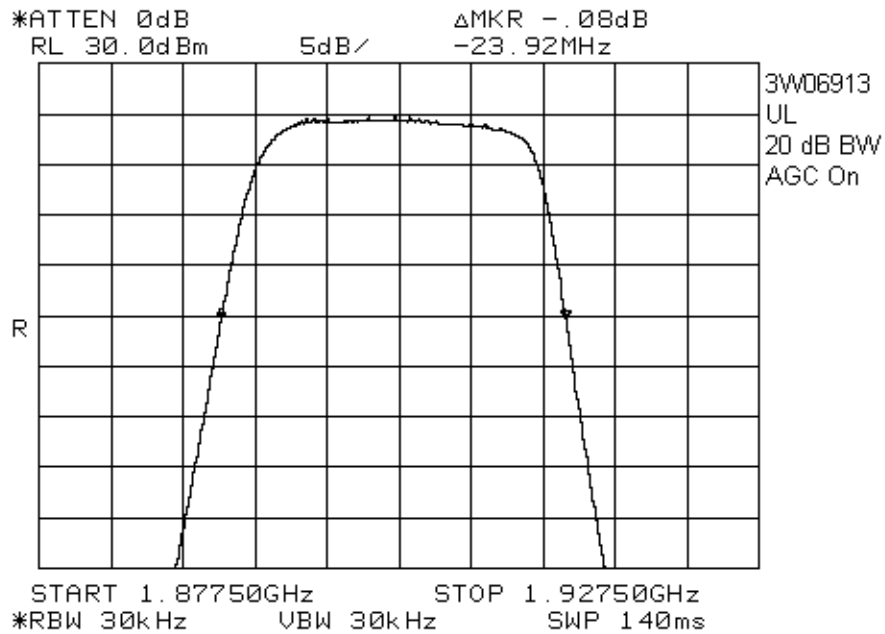
**BDA-PCS/C-1/1W-80-B**

Uplink



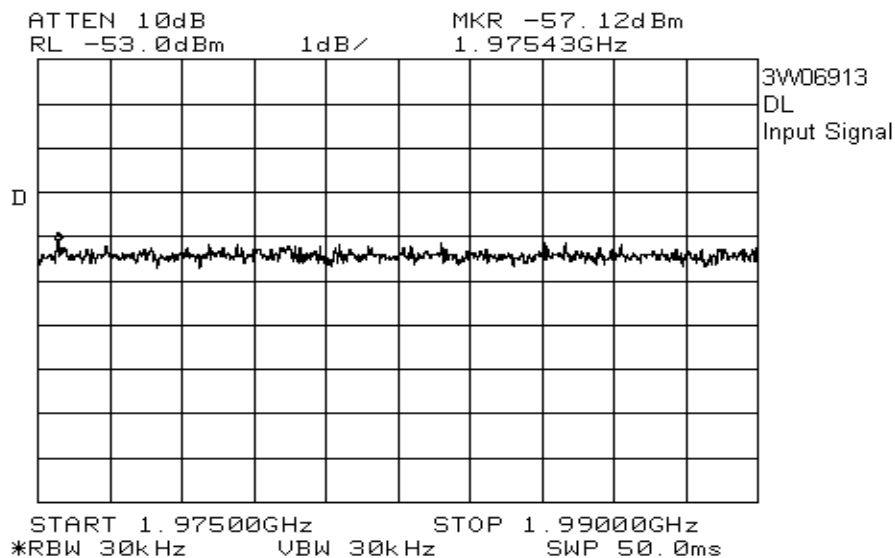
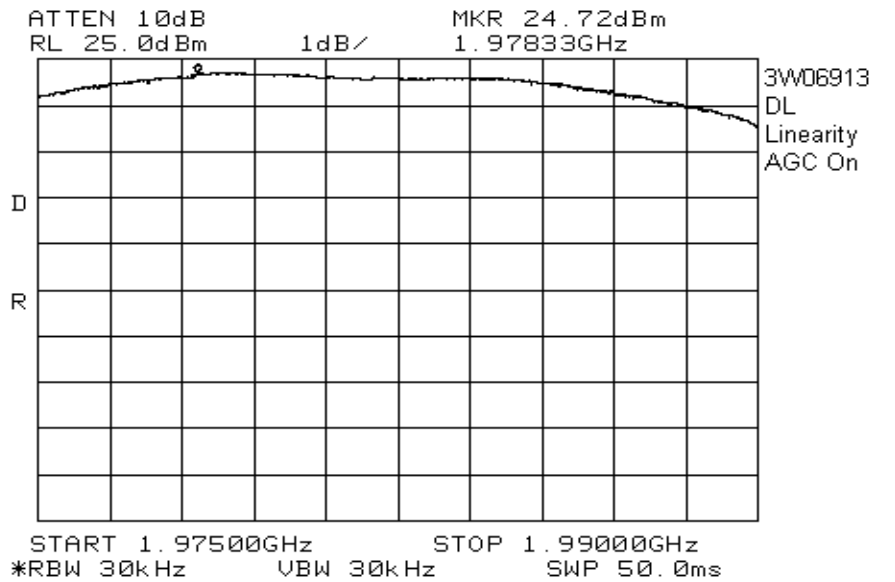
*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Passband



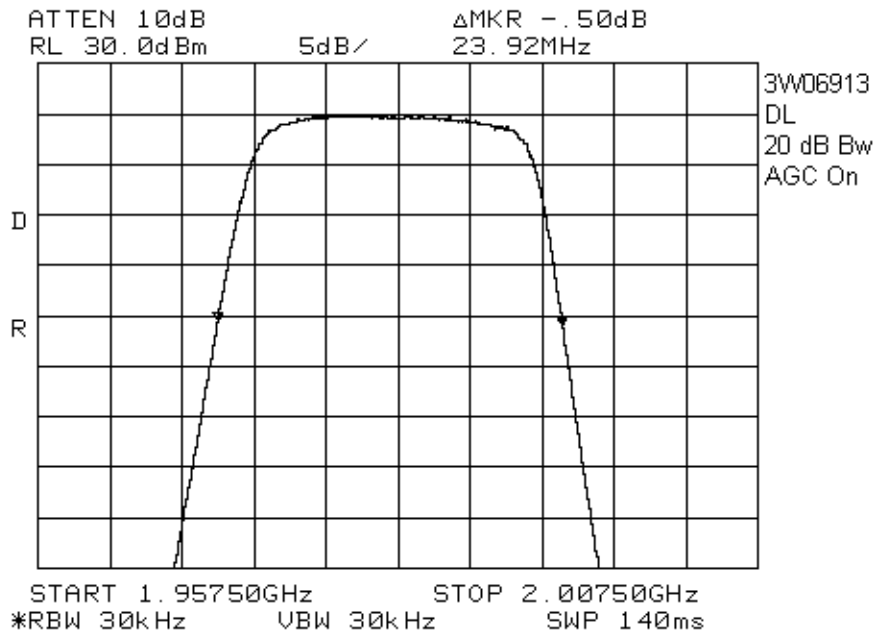
*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Passband



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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## **Section 4.        Occupied Bandwidth**

**Para. No.: 2.1049**

<b>Test Performed By: Kevin Carr</b>	<b>Date of Test: 5 March 2003</b>
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**Minimum Standard:**        Para. No.: 24.238.

**Test Results:**                Complied.

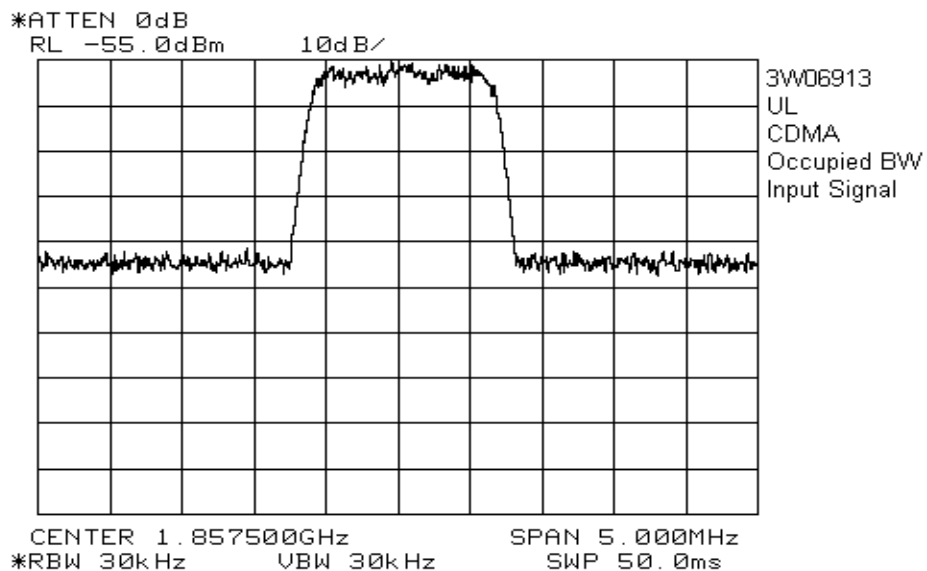
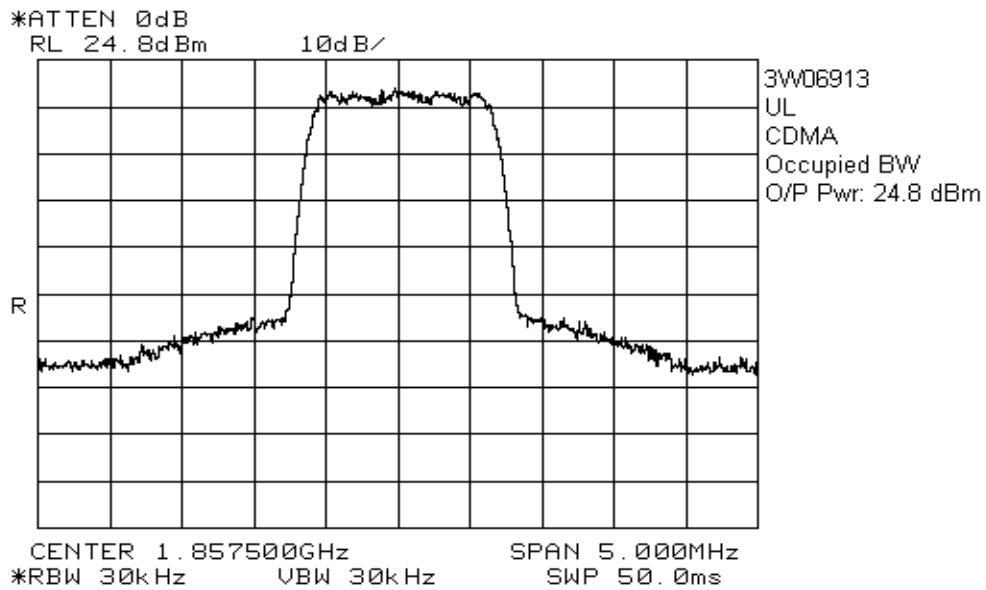
**Test Data:**                    See attached graph(s).



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

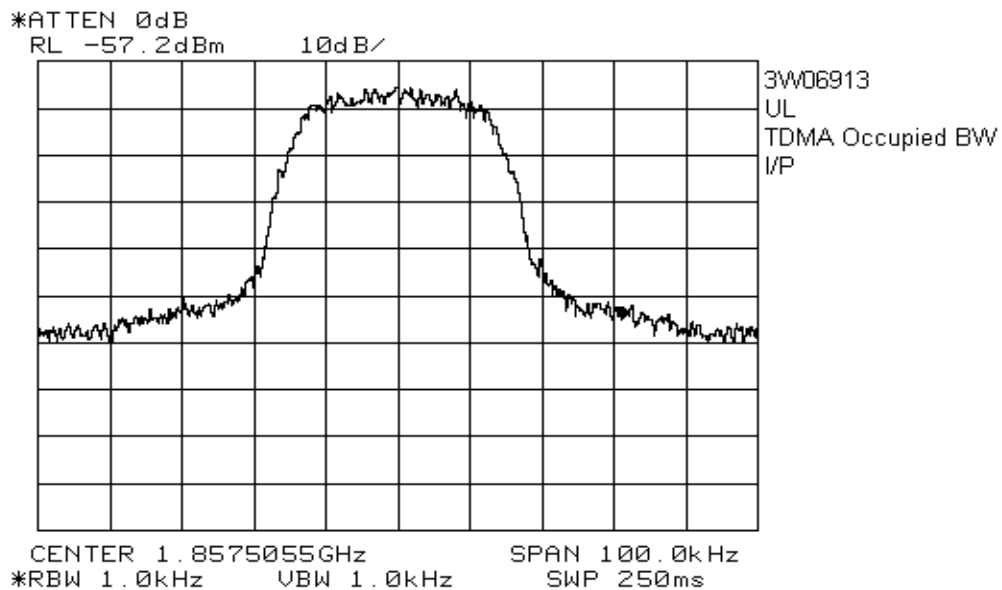
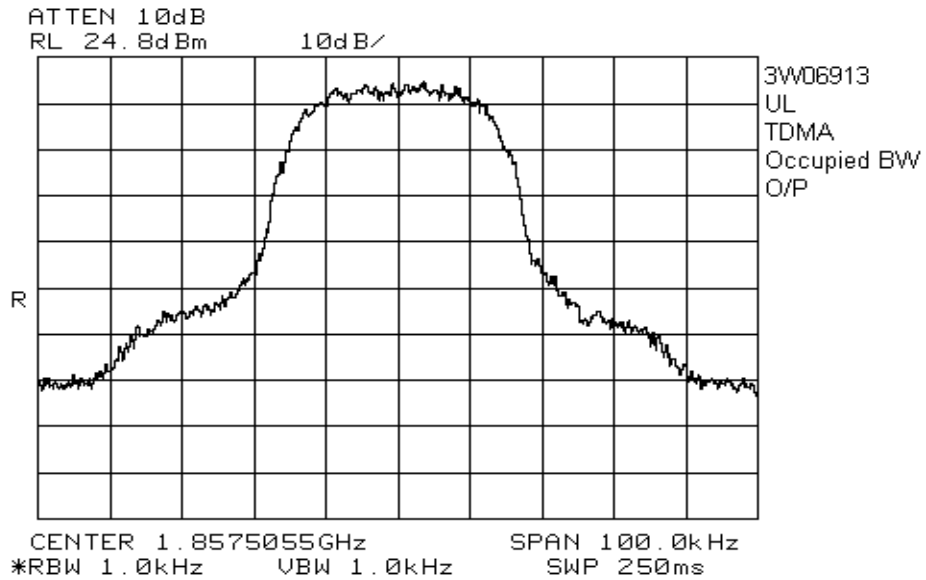
**BDA-PCS/A-1/1W-80-B**

Uplink, CDMA



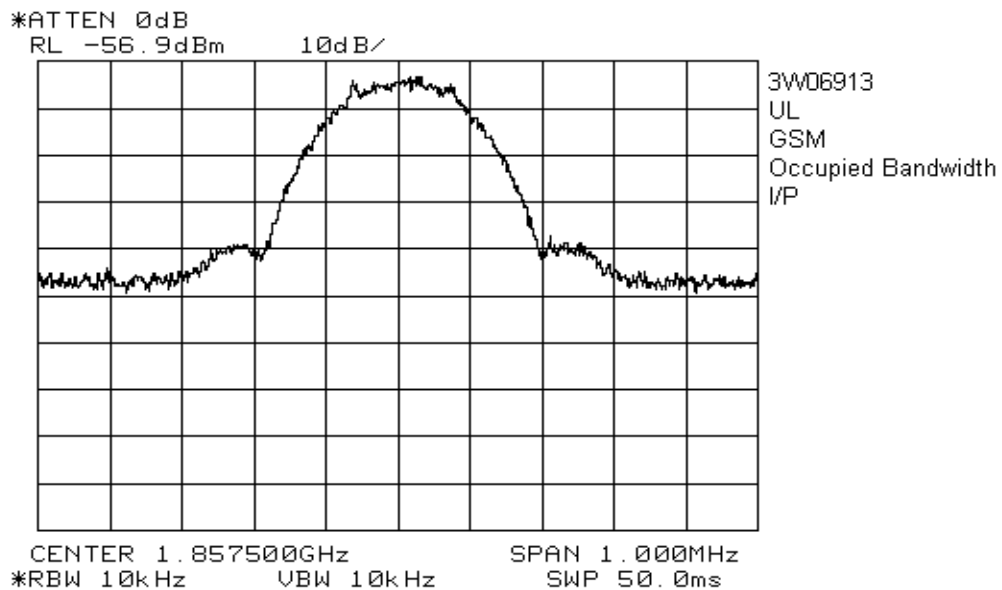
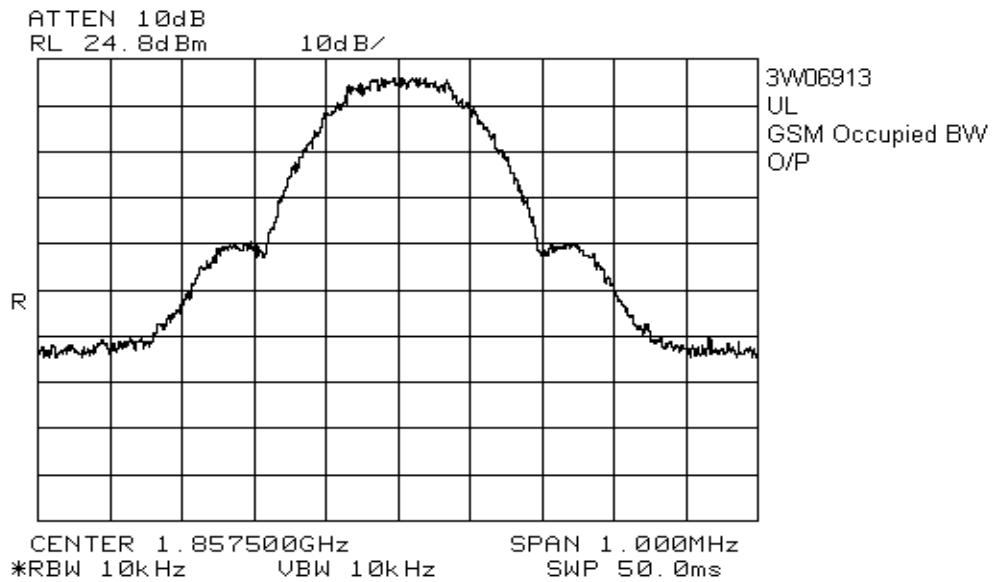
*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink, TDMA



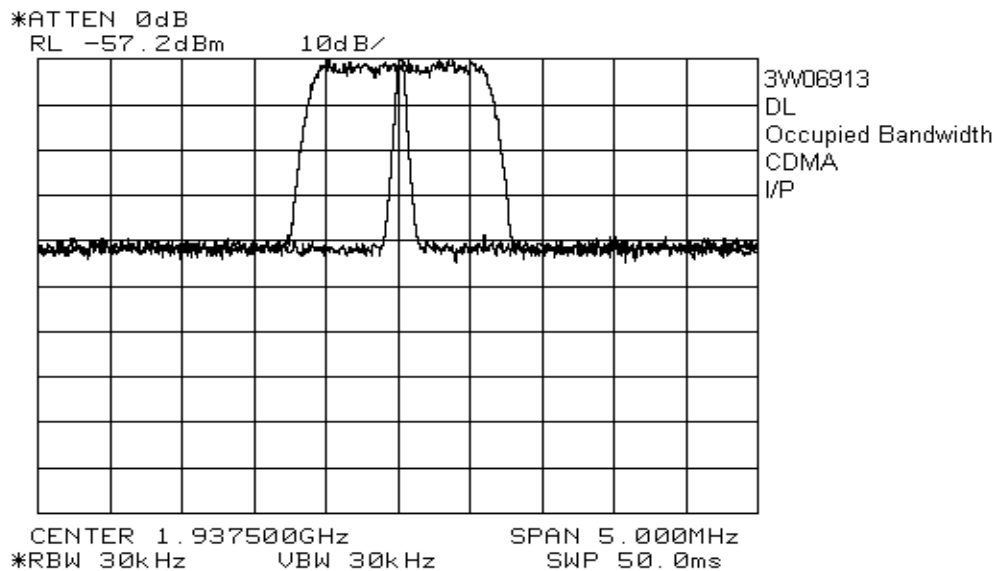
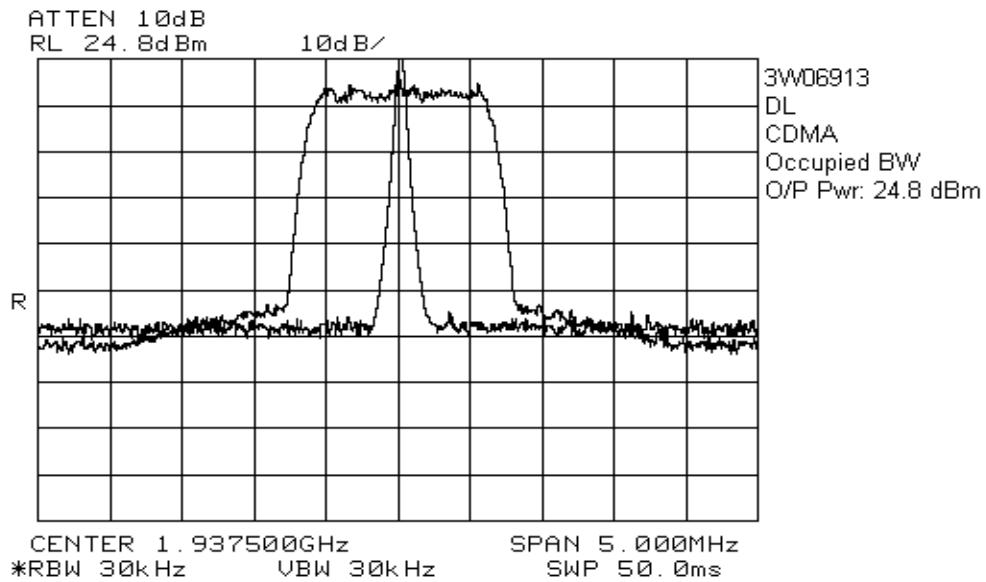
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BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink, GSM



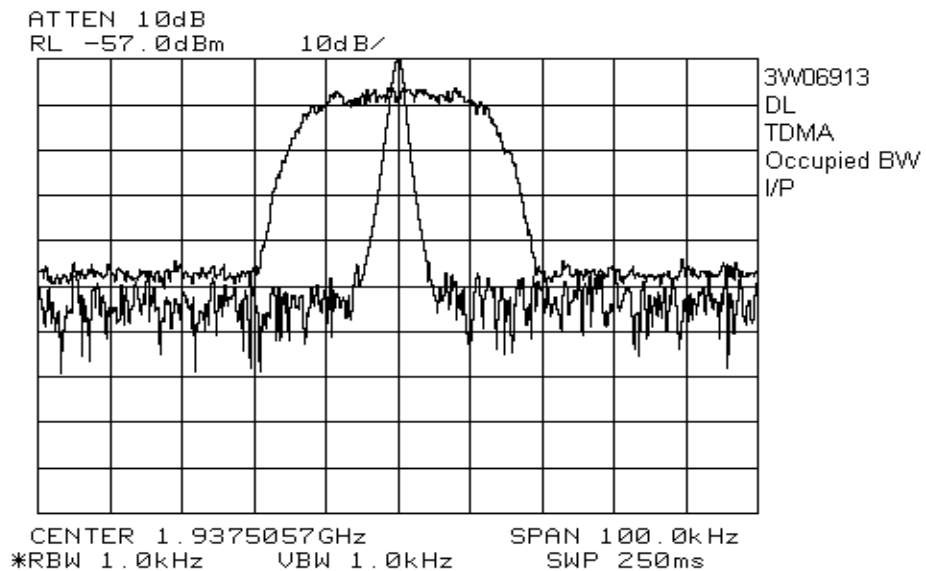
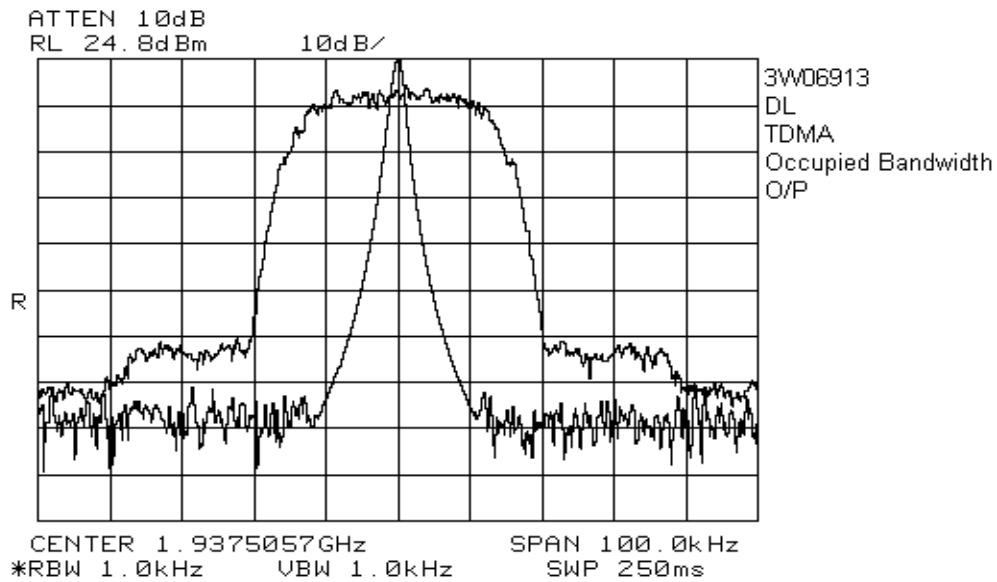
*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink, CDMA



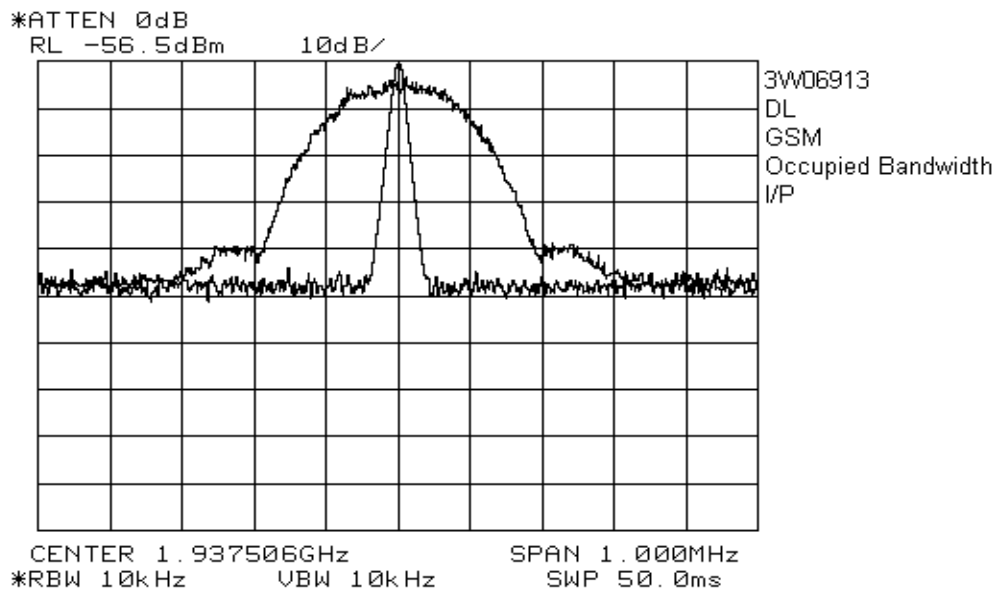
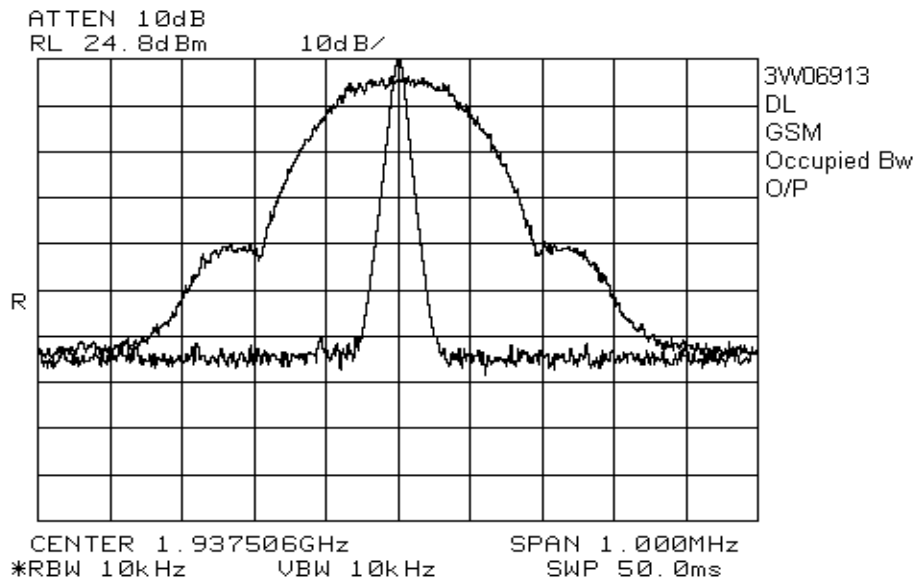
*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink, TDMA



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

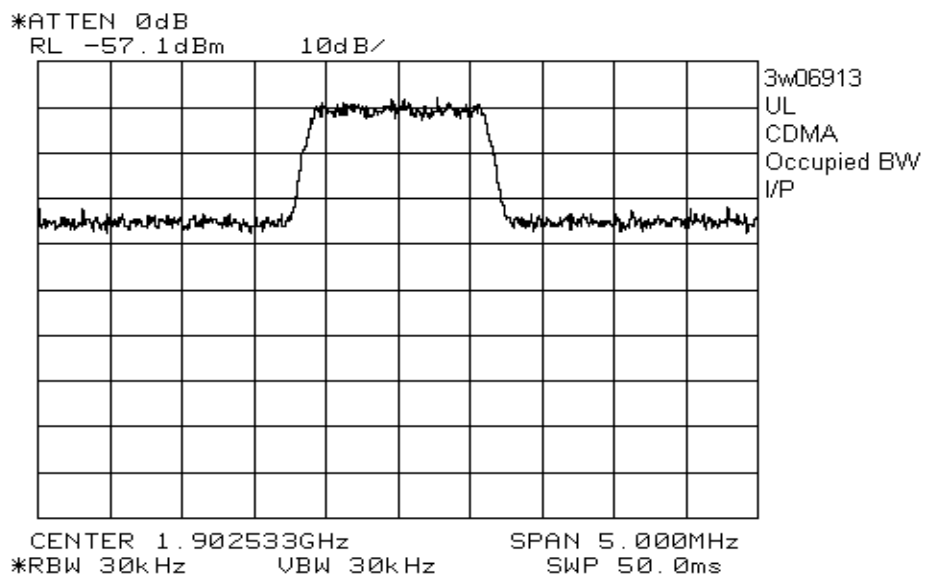
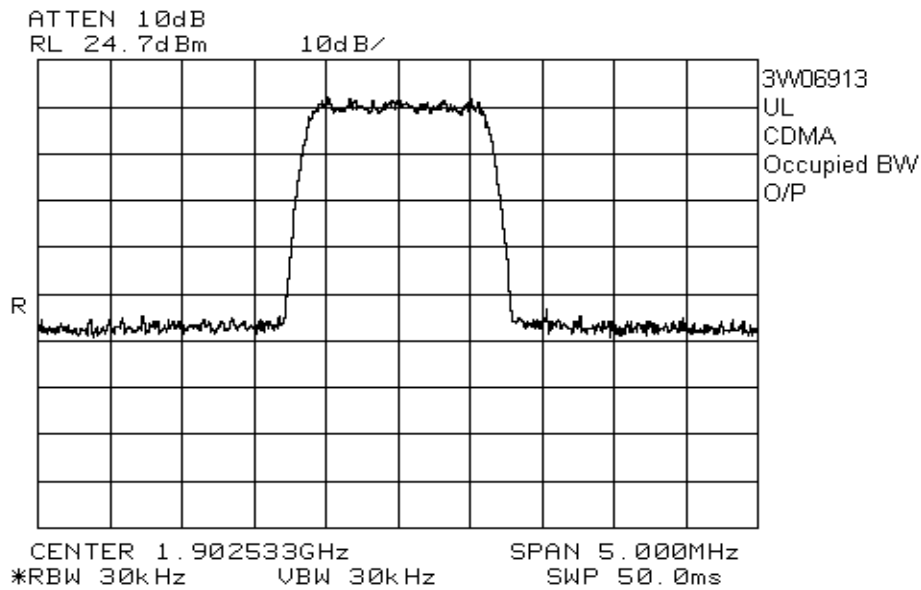
Downlink, GSM



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

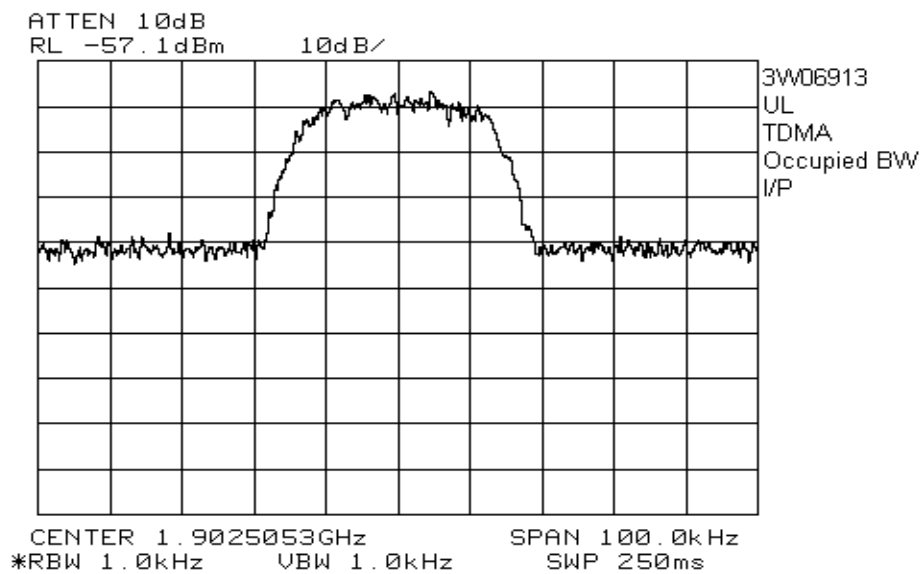
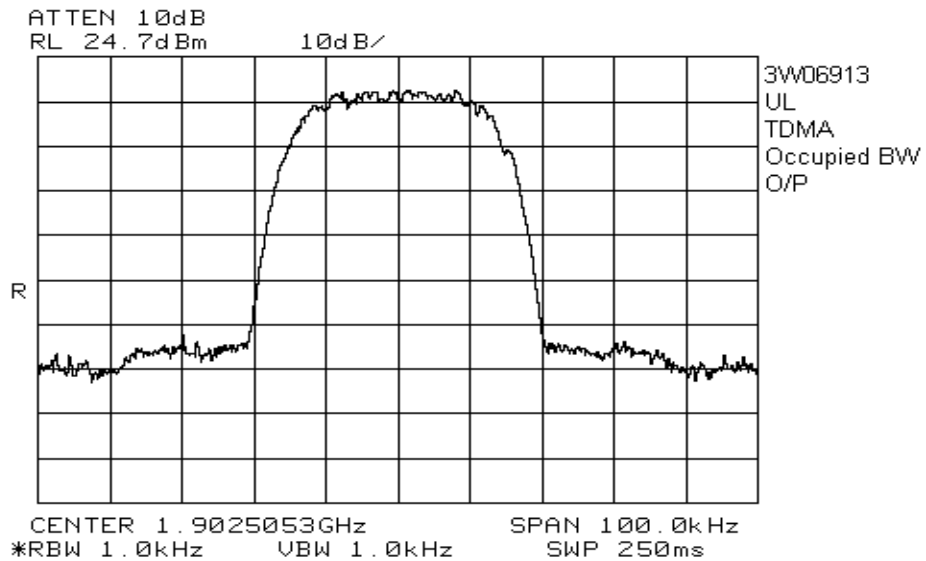
**BDA-PCS/C-1/1W-80-B**

Uplink CDMA



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

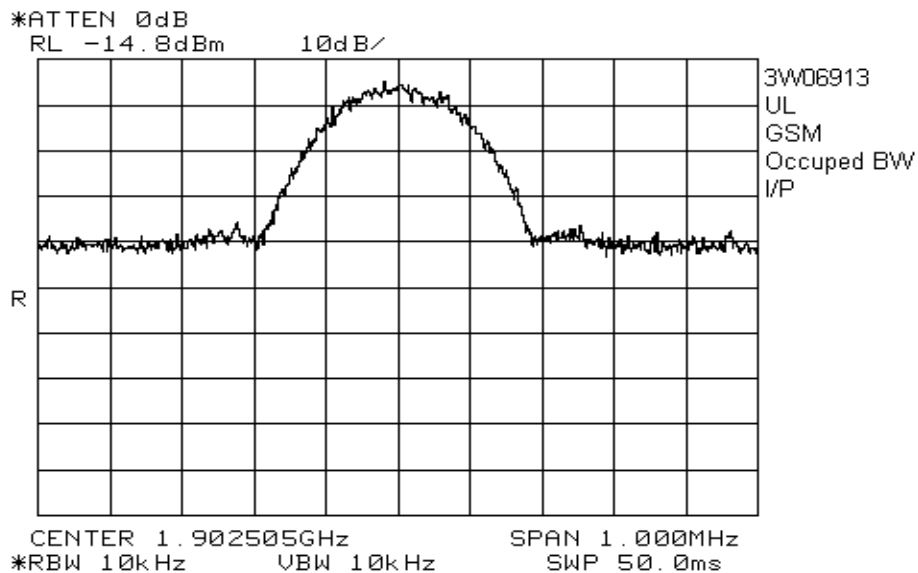
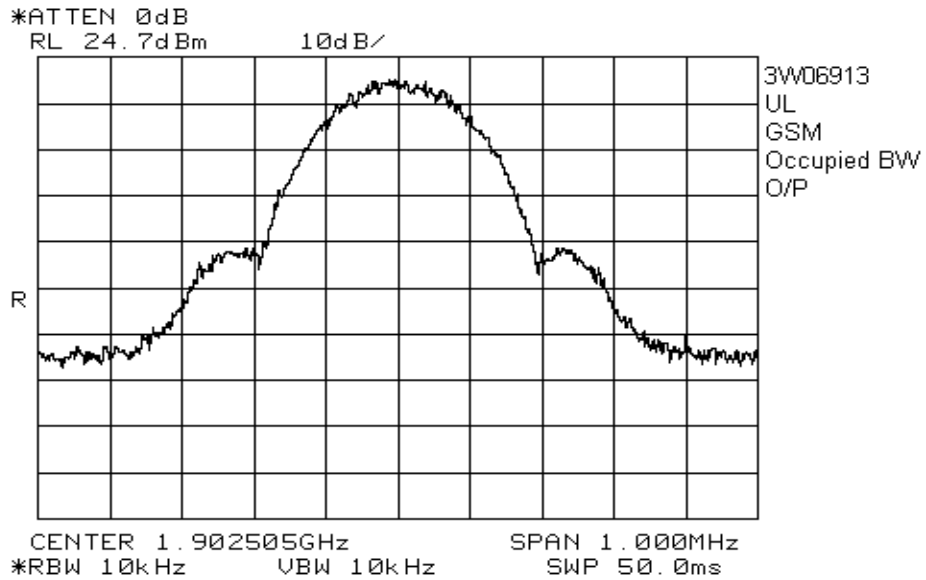
Uplink TDMA





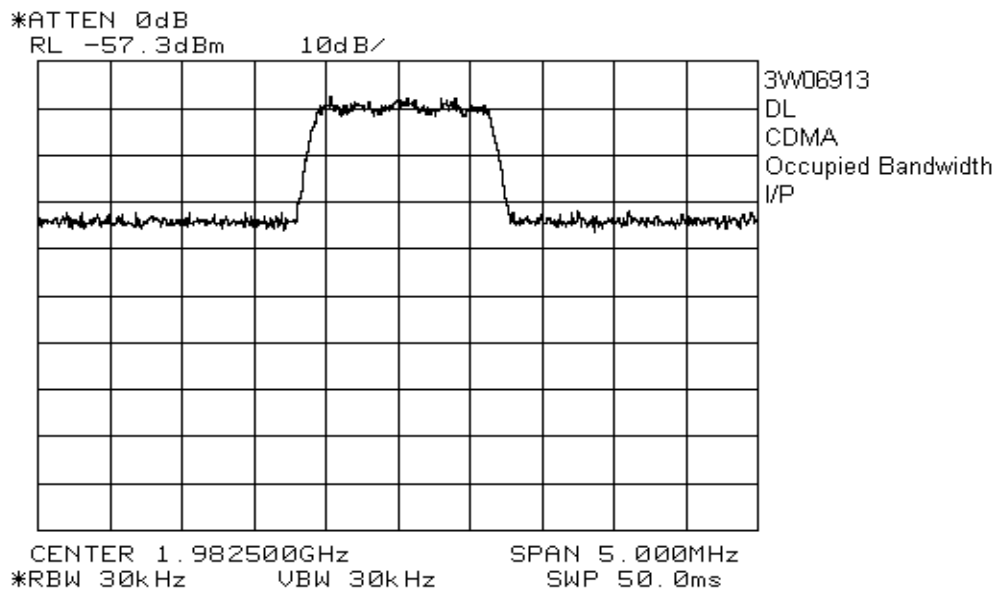
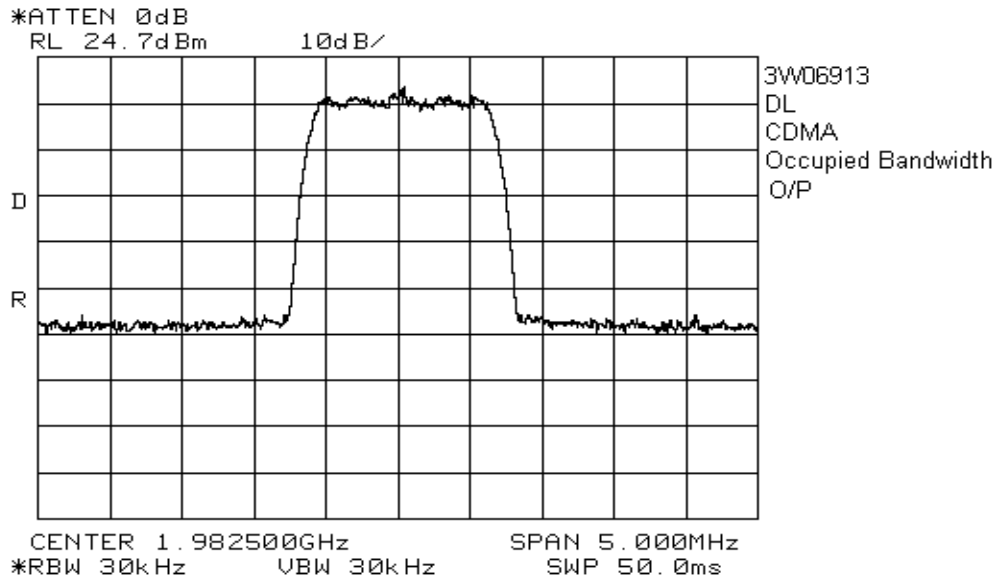
*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink GSM



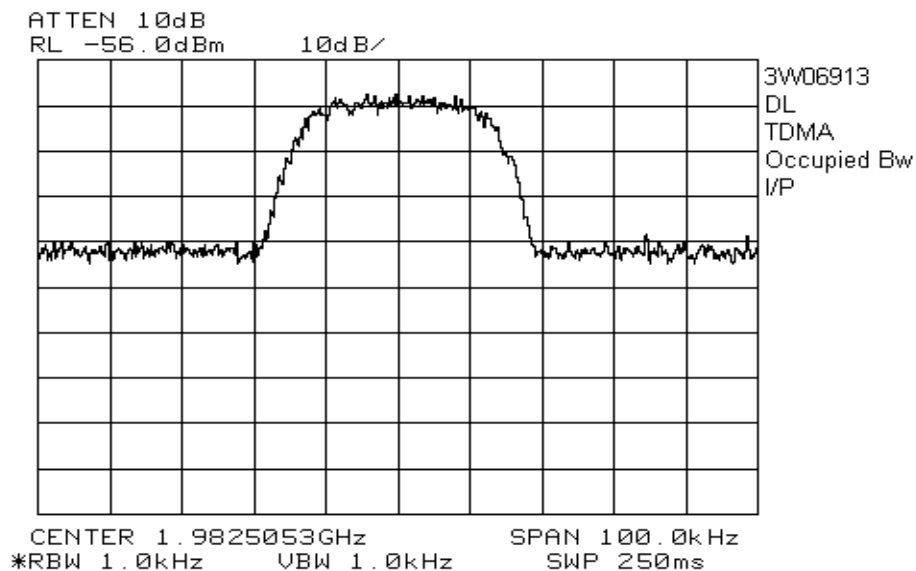
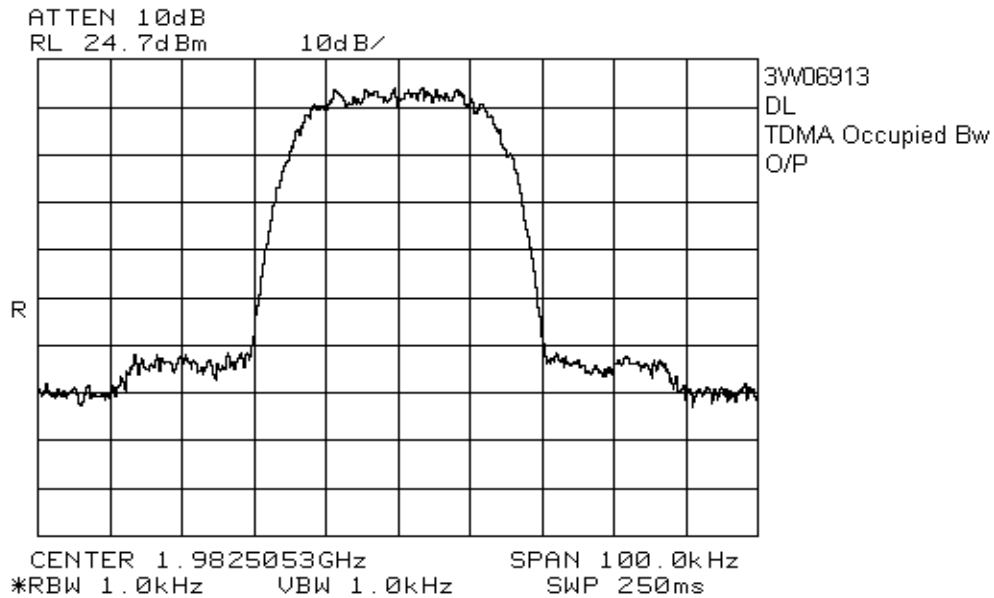
*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink CDMA



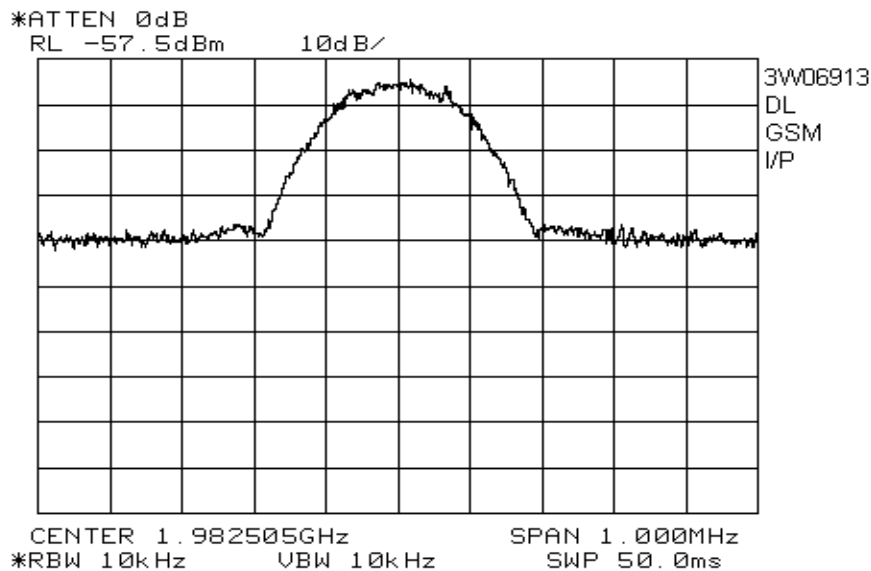
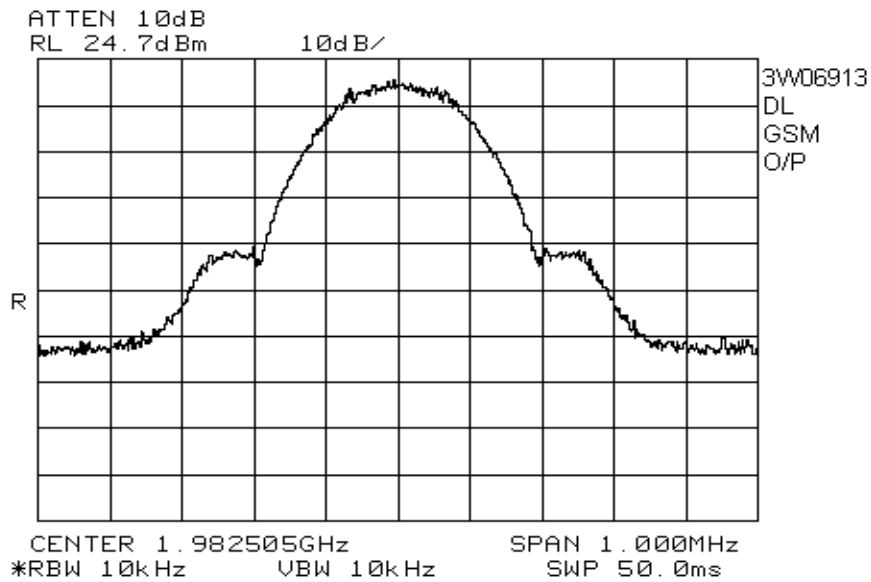
*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink TDMA



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink GSM



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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## **Section 5.        Spurious Emissions at Antenna Terminals**

**Para. No.: 2.1051**

<b>Test Performed By: Kevin Carr</b>	<b>Date of Test: 12 Mar 2003</b>
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**Minimum Standard:**        Para. No.: 24.238.

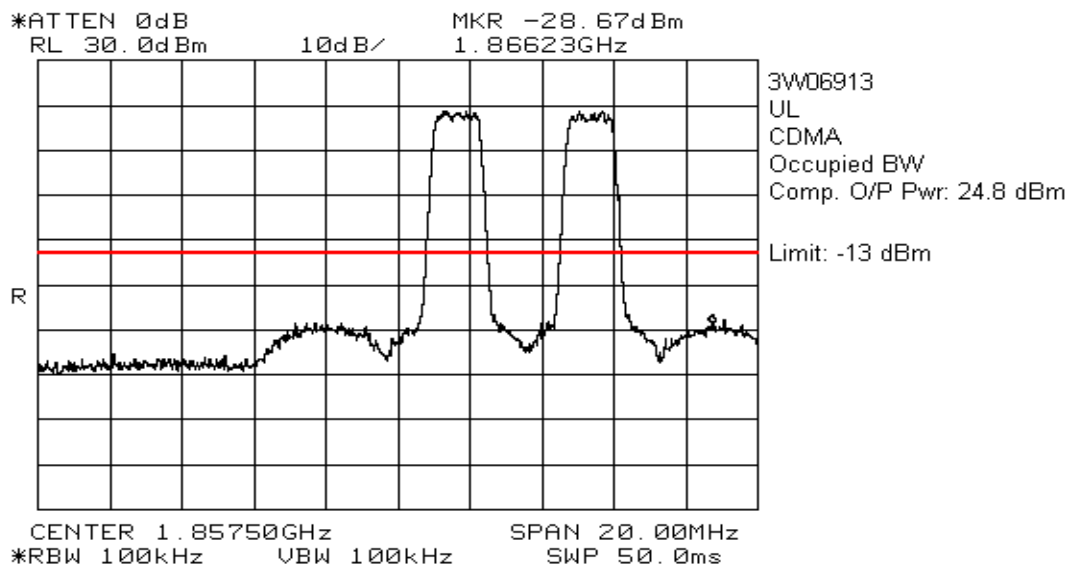
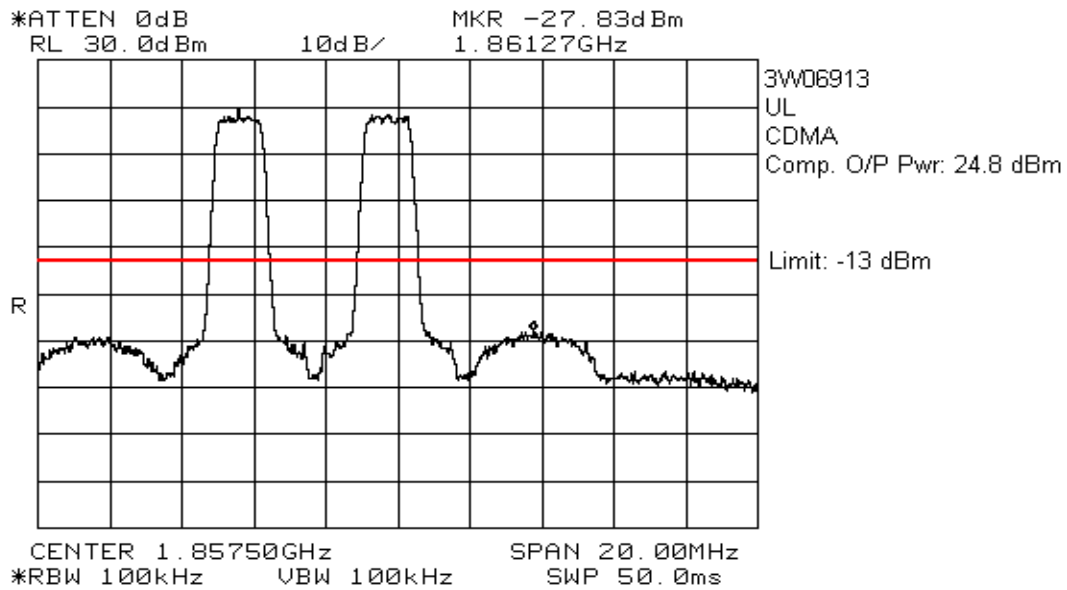
**Test Results:**                Complied.

**Test Data:**                    See attached graph(s).

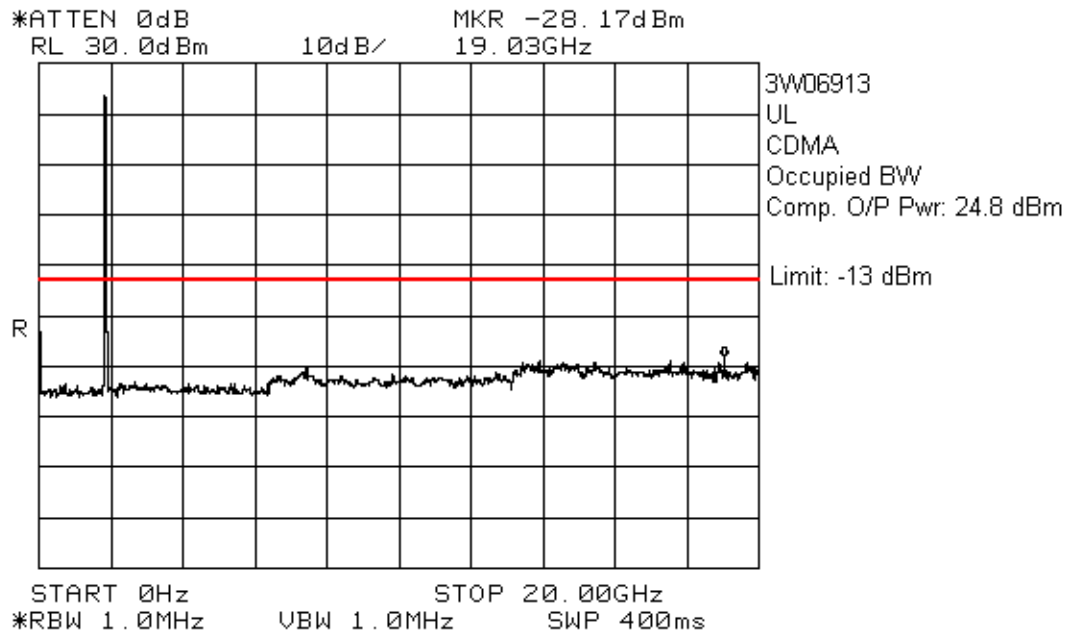
*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

**BDA-PCS/A-1/1W-80-B**

Uplink CDMA

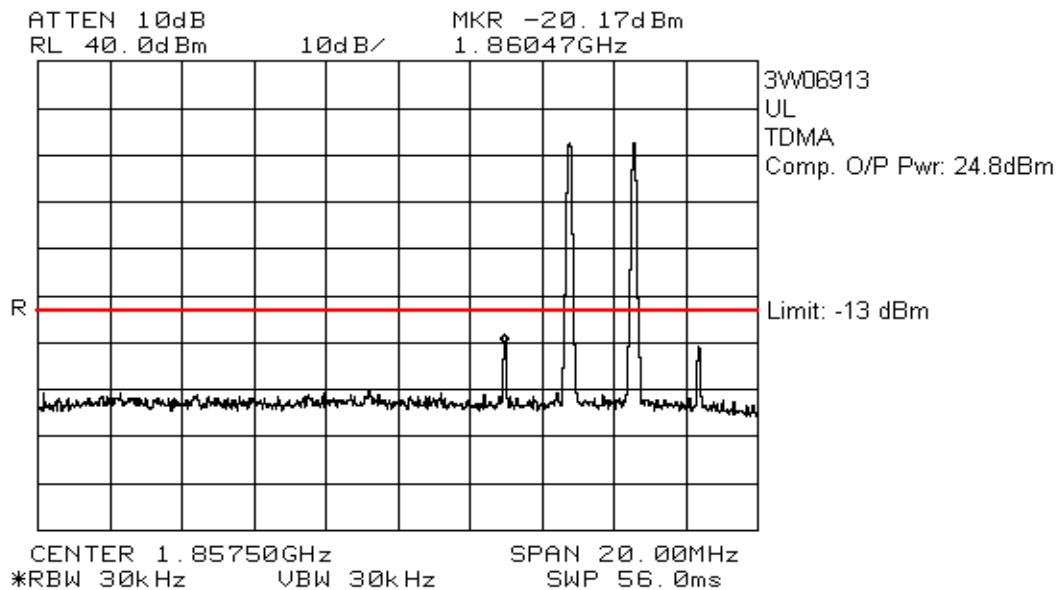
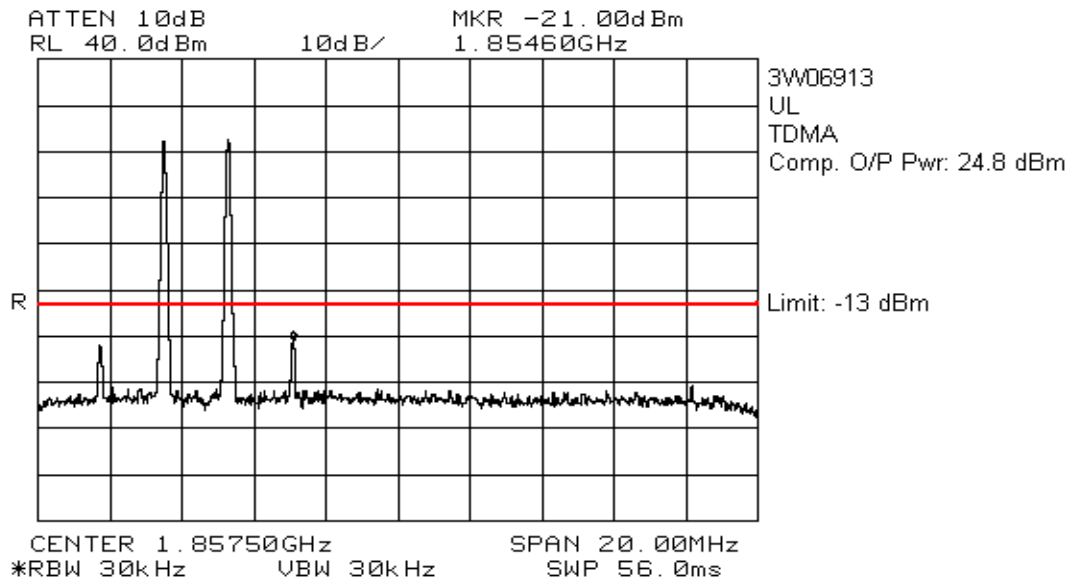


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters



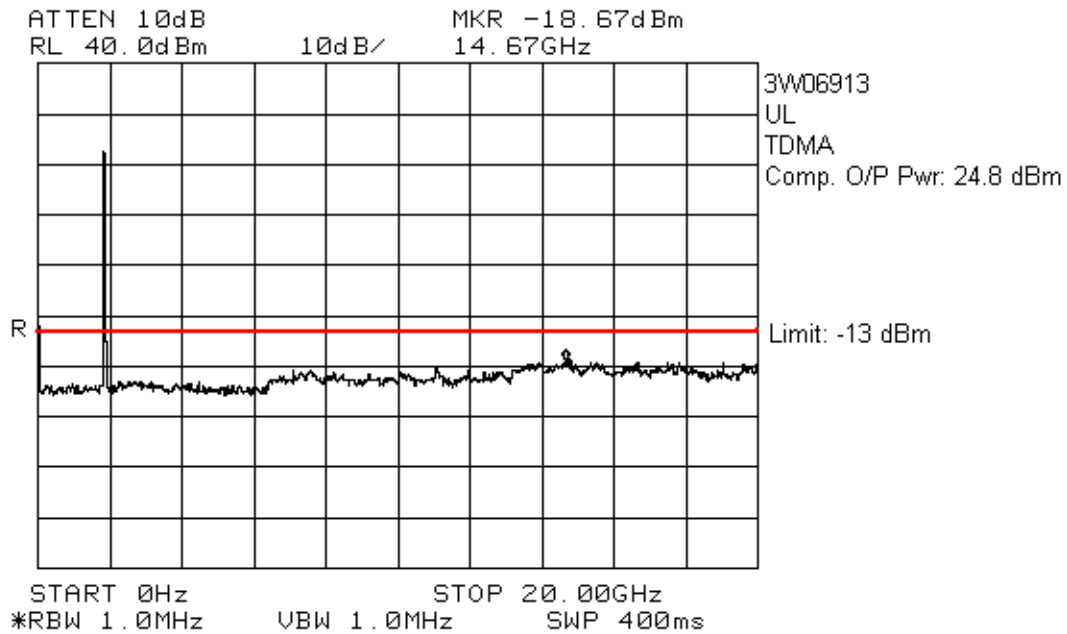
*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink TDMA



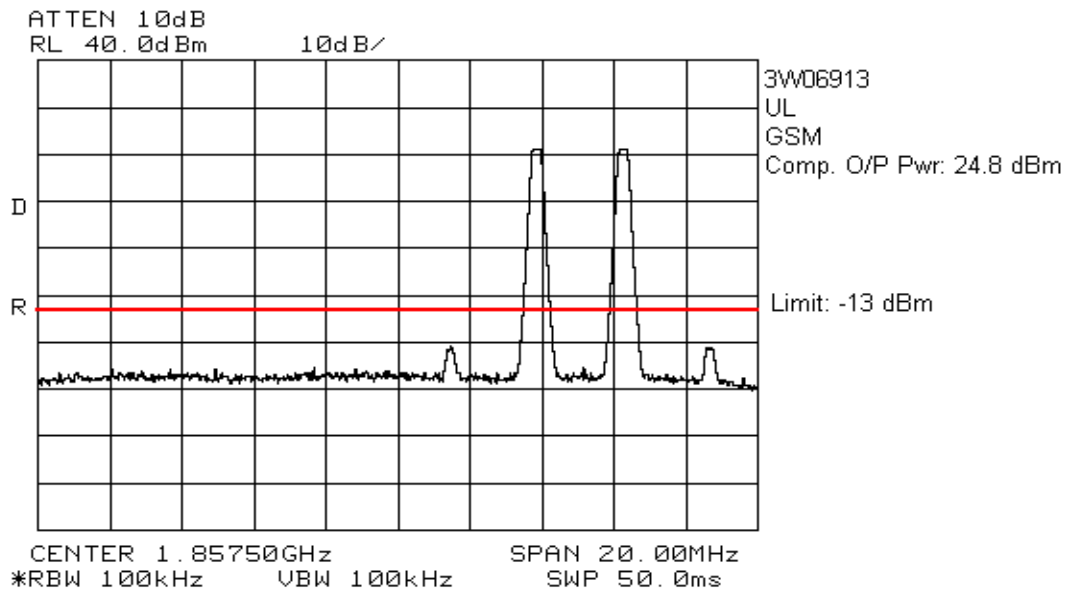
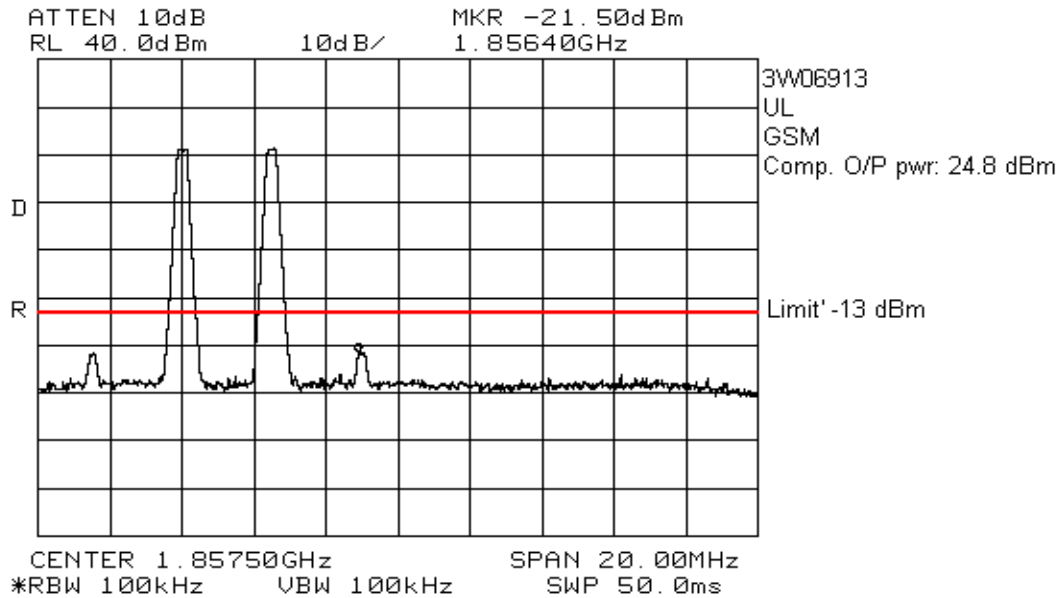


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

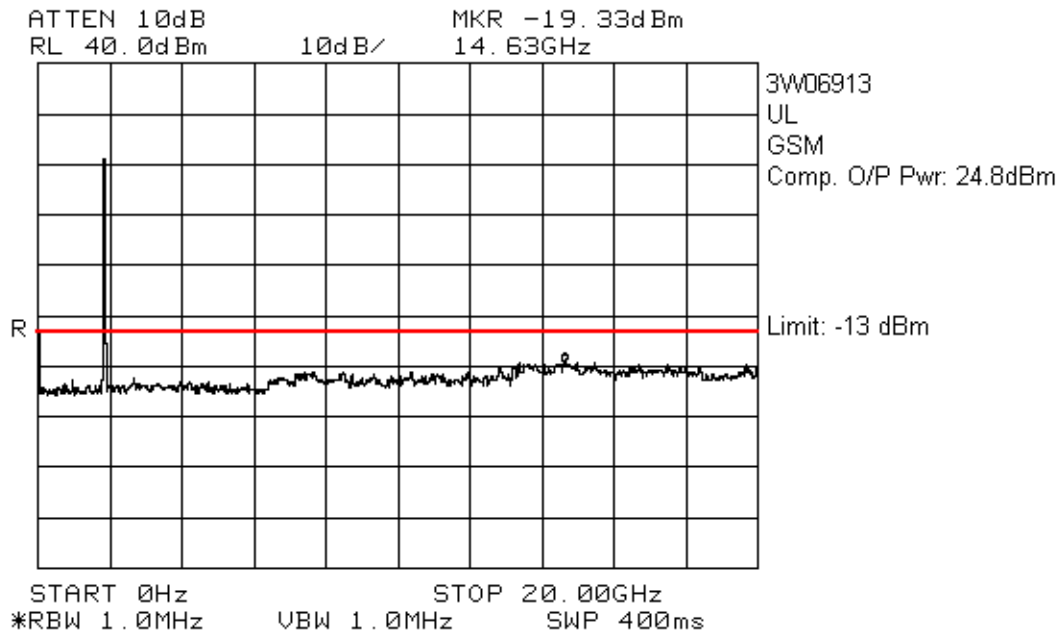


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink GSM

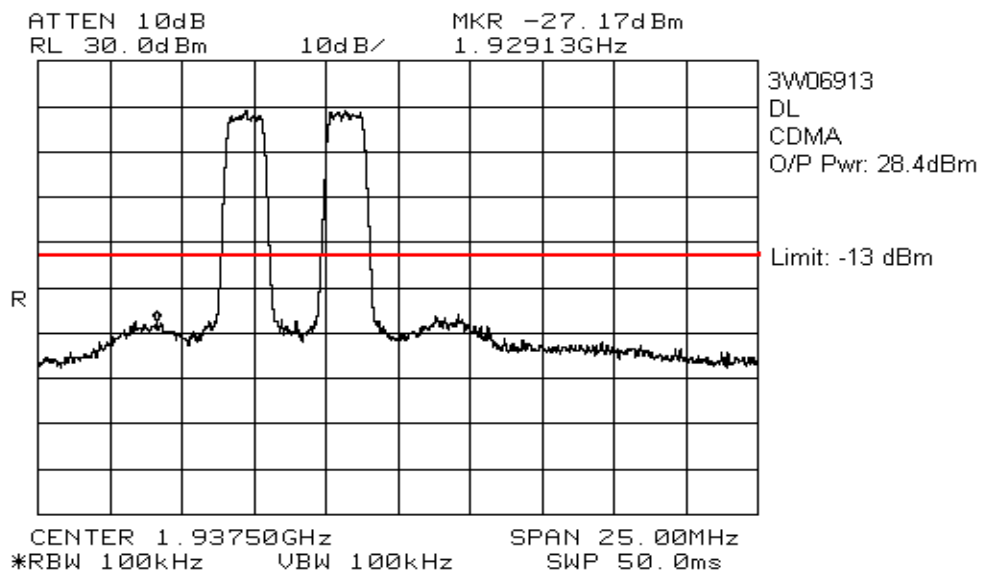
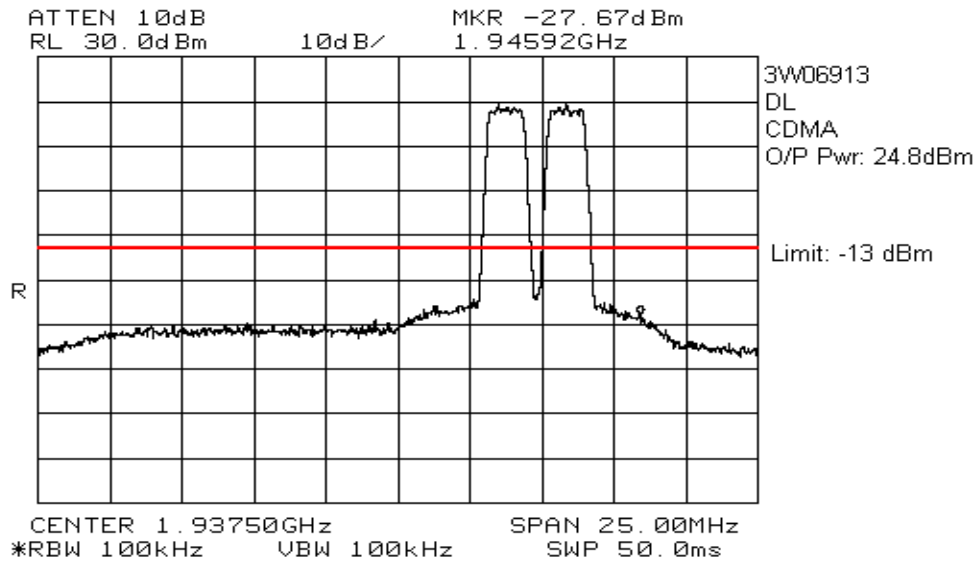


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

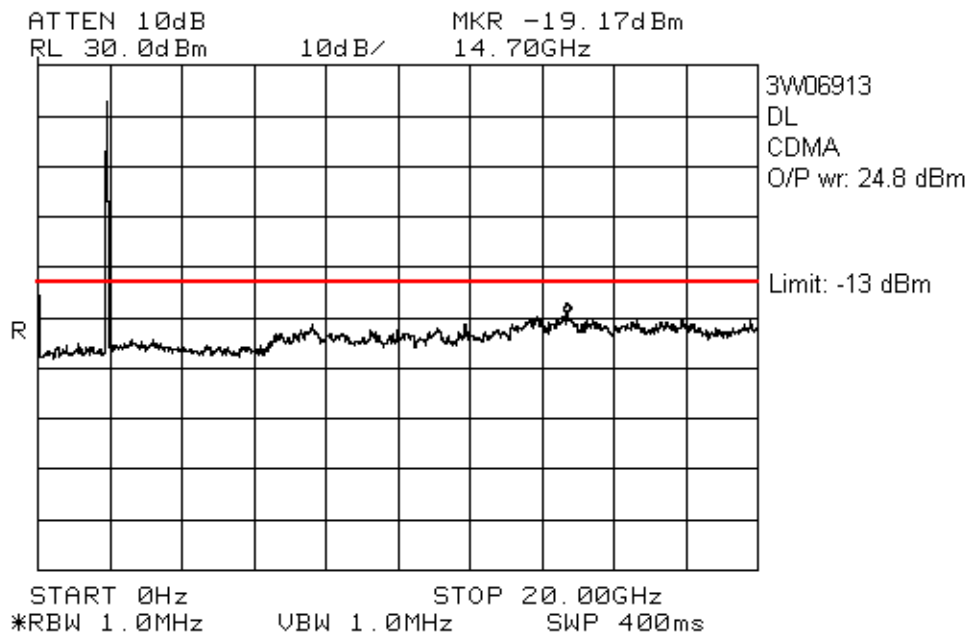


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink CDMA

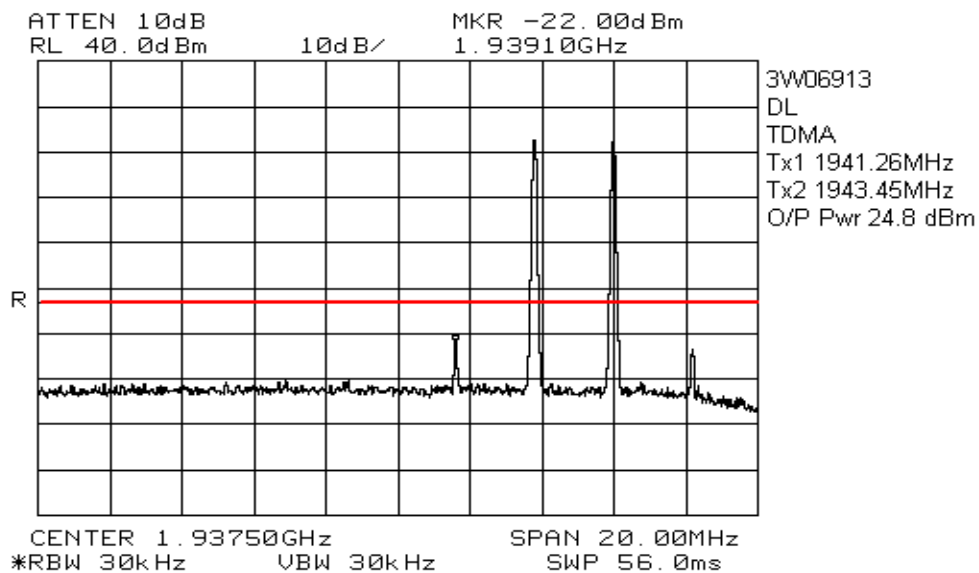
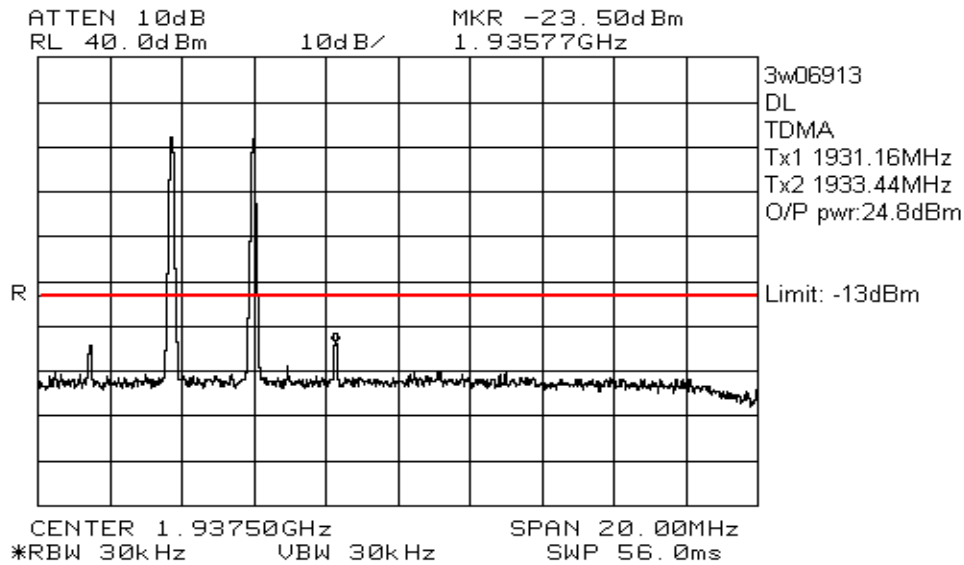


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

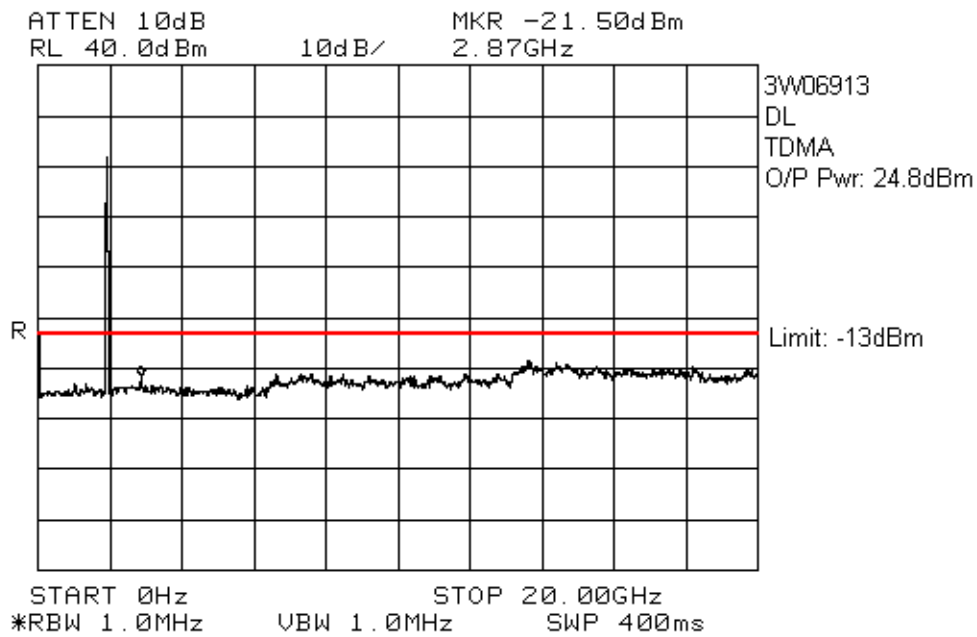


EQUIPMENT: BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink TDMA

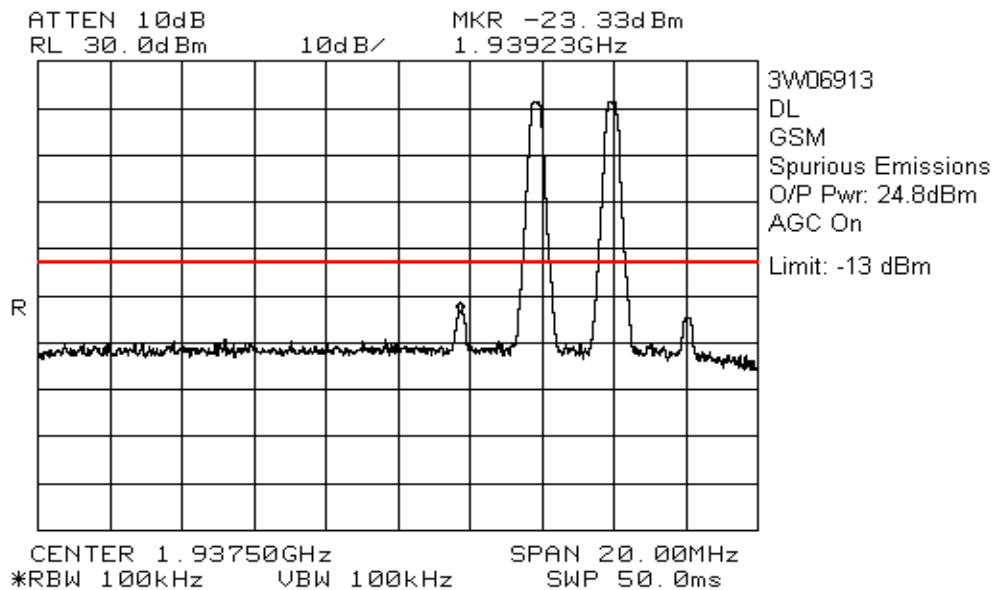
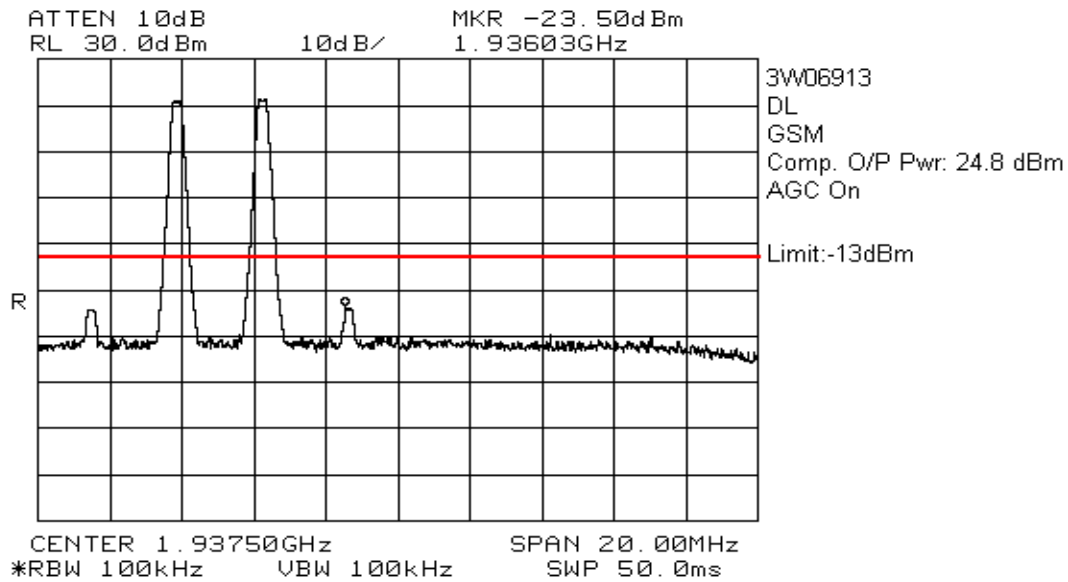


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

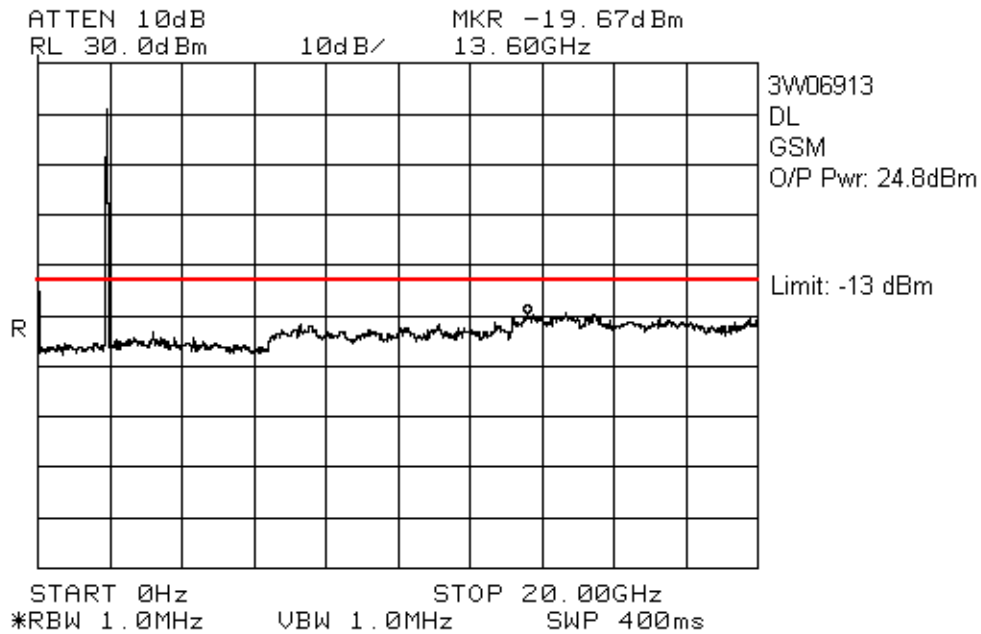
Downlink GSM





*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
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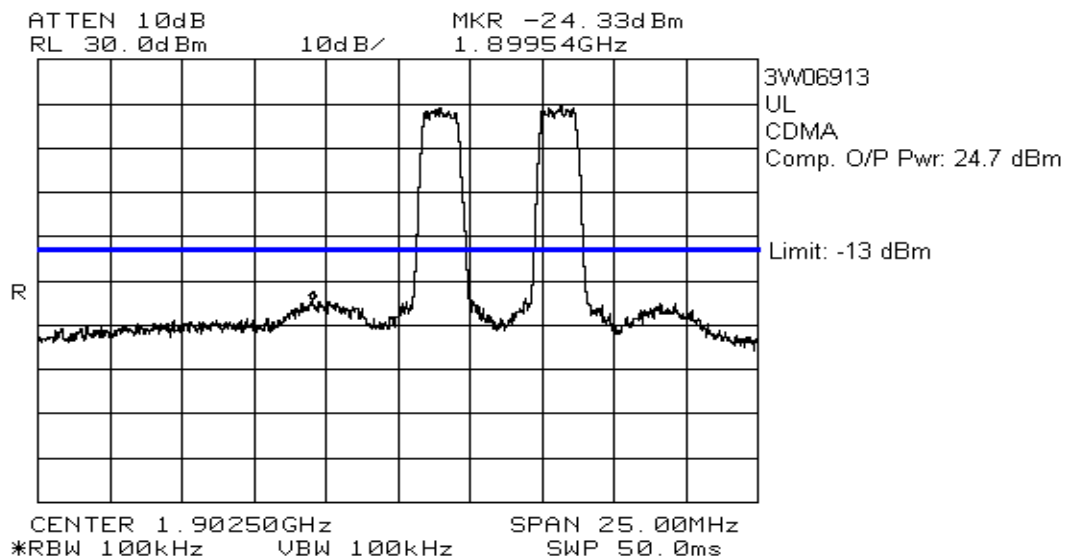
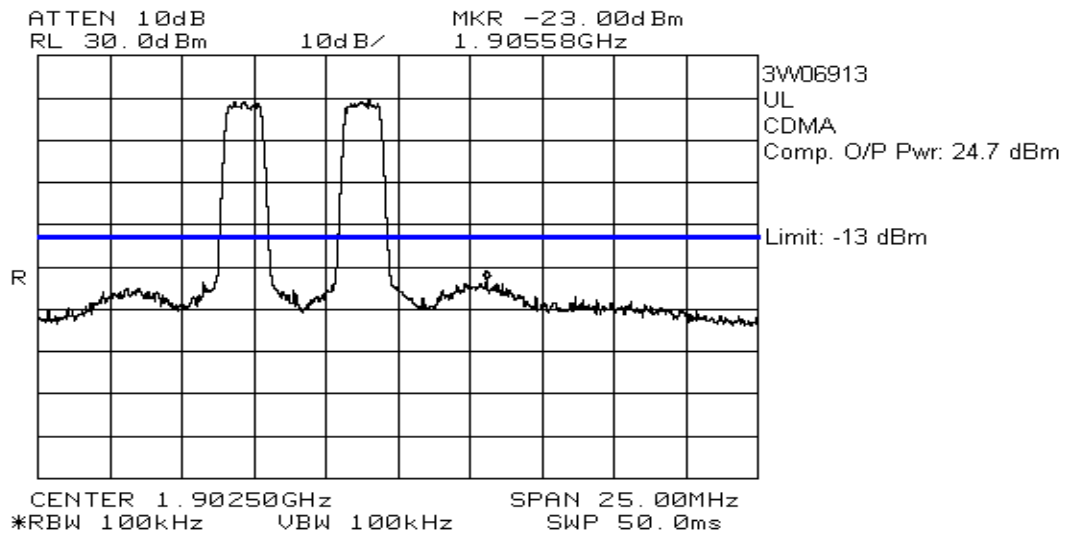
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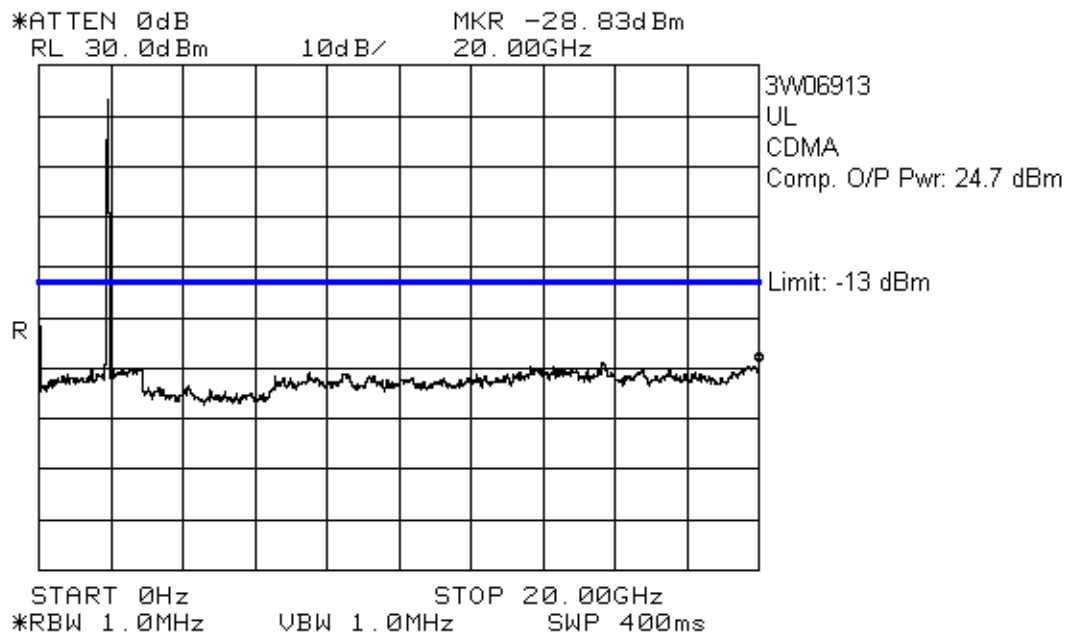
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BDA-PCS/C-1/1W-80-B, In-Building Repeaters

**BDA-PCS/C-1/1W-80-B**

Uplink CDMA

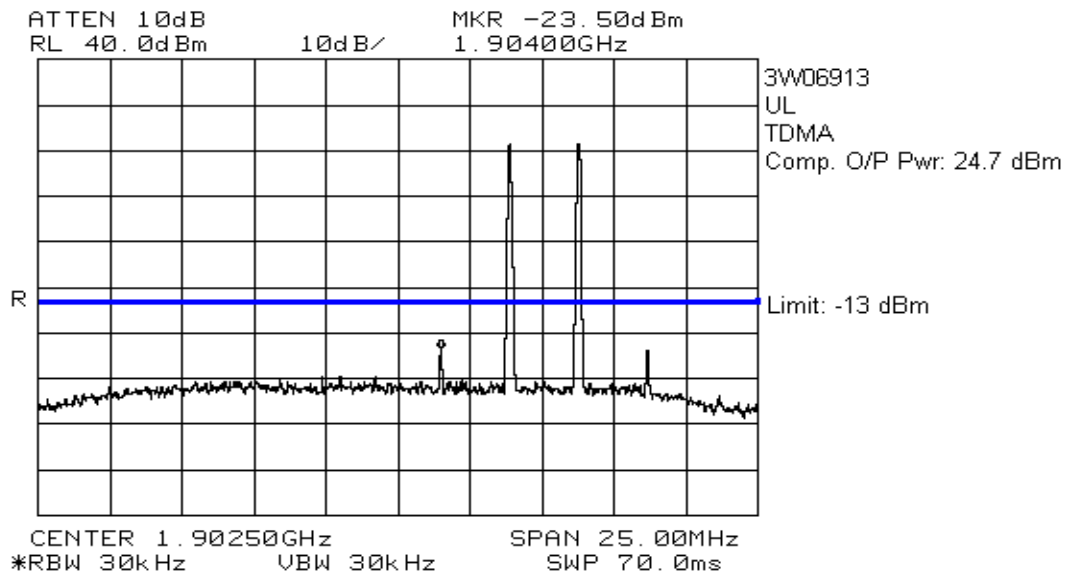
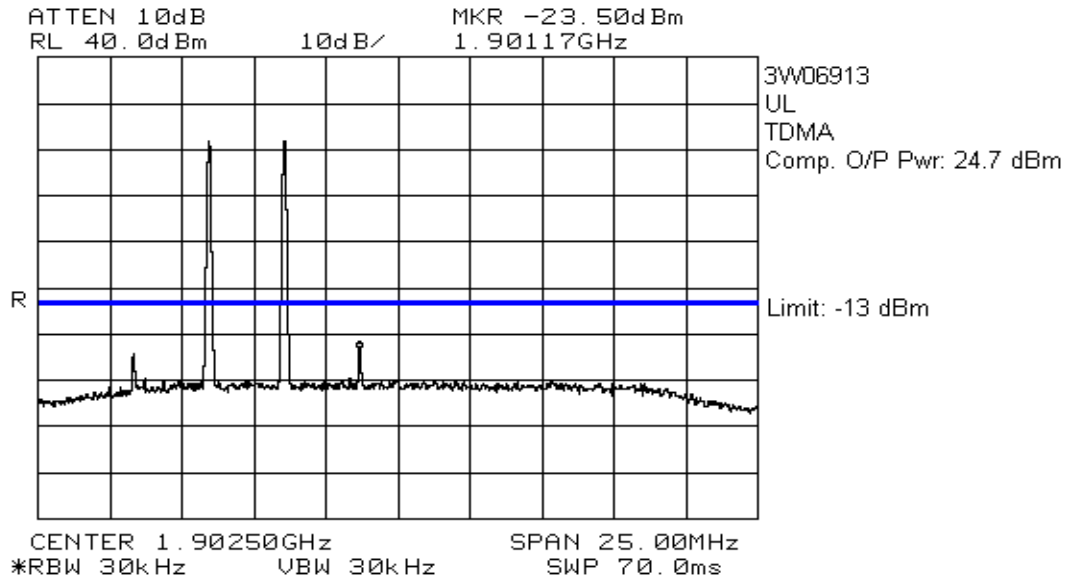


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

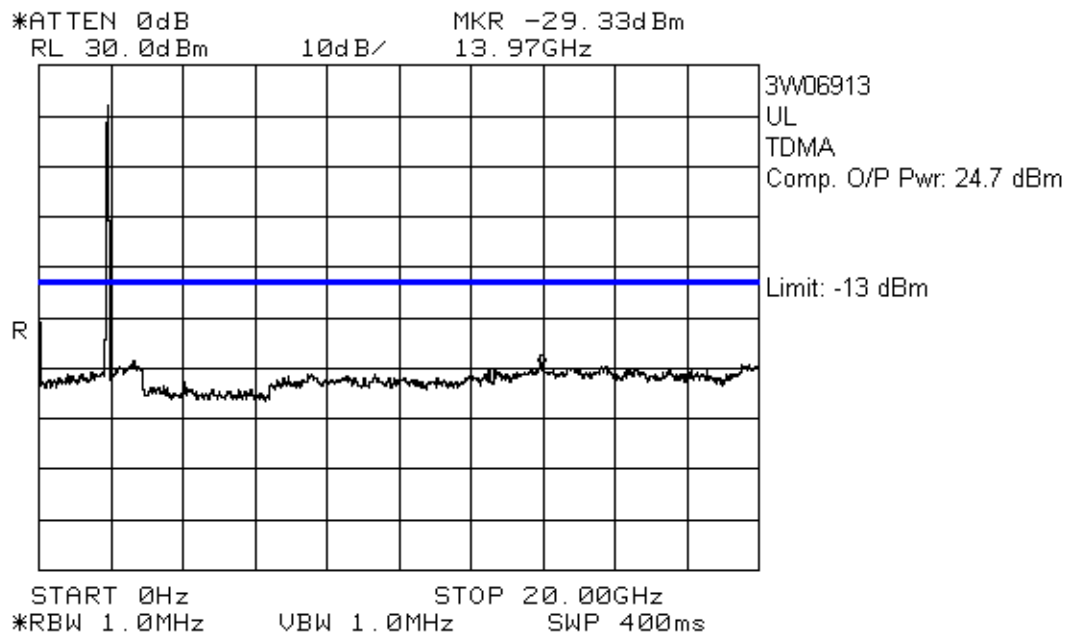


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink TDMA

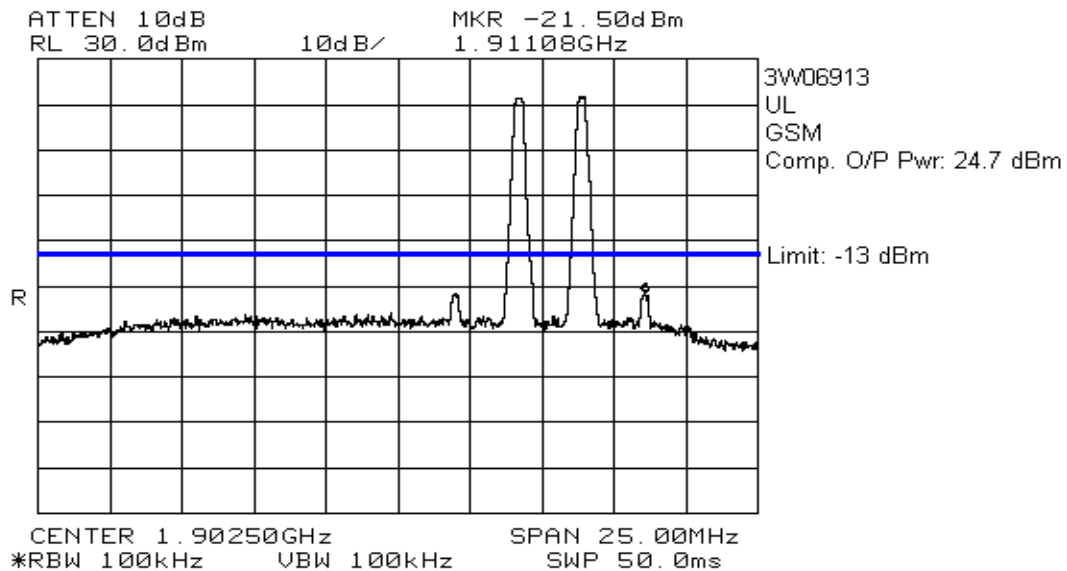
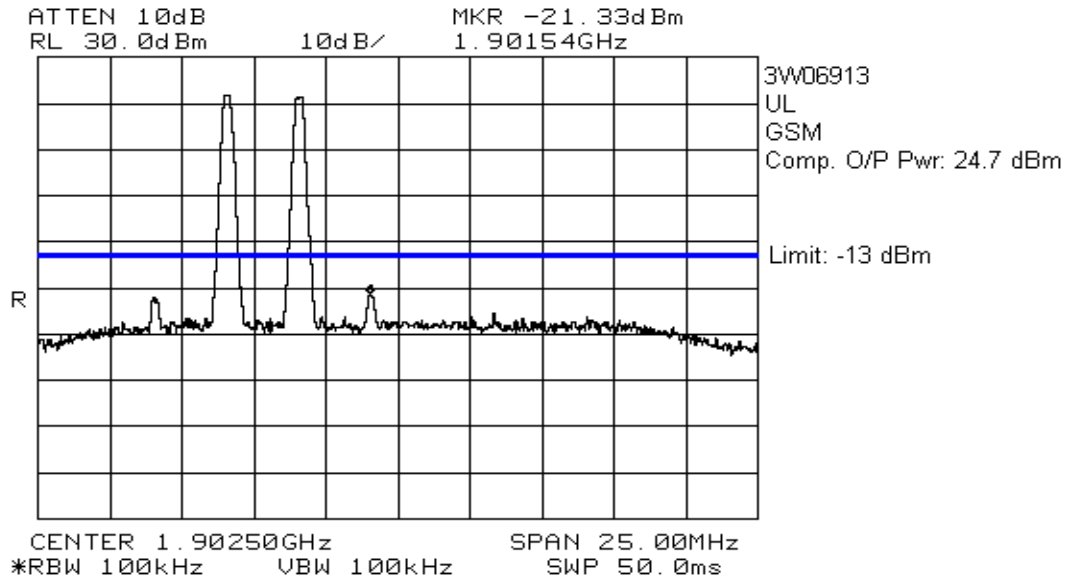


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

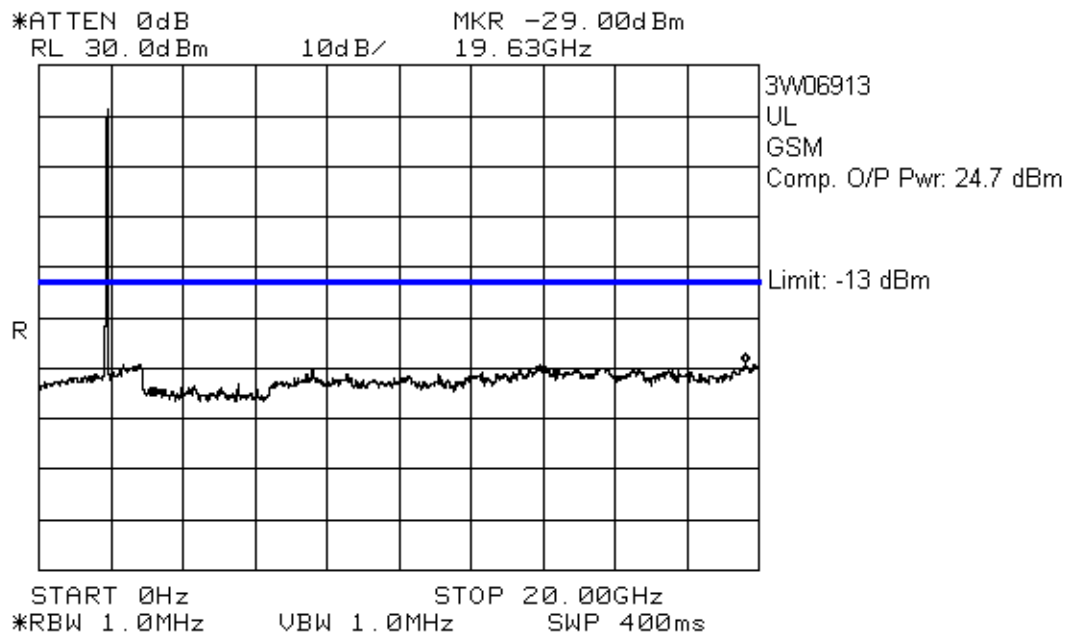


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink GSM

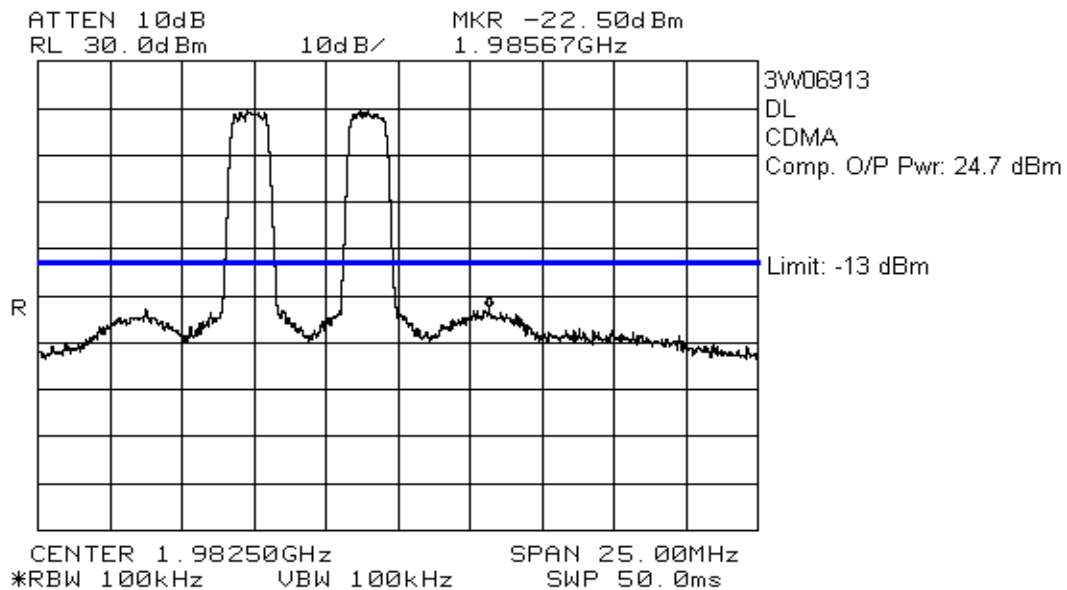
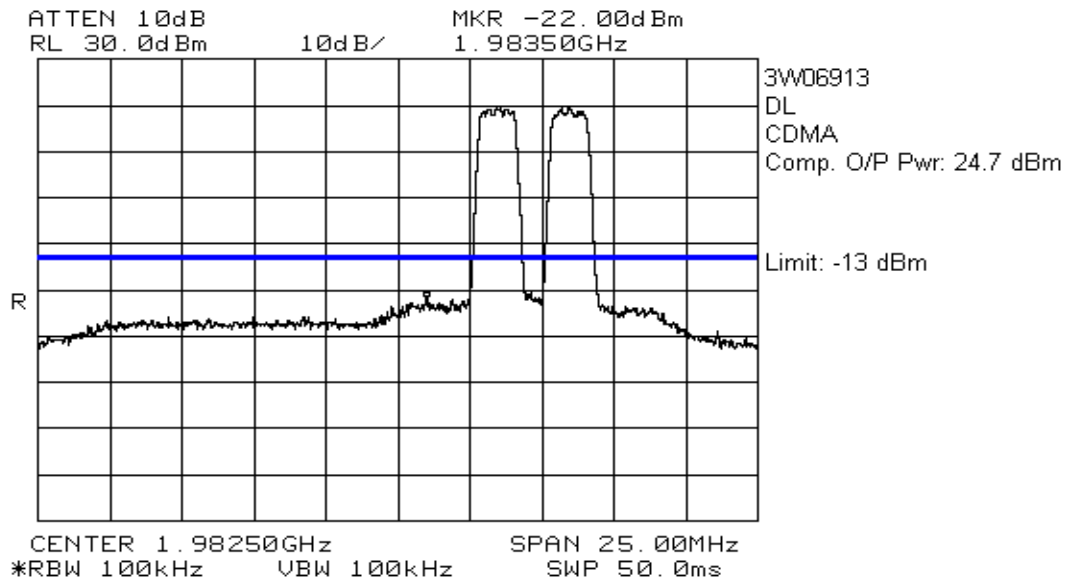


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters



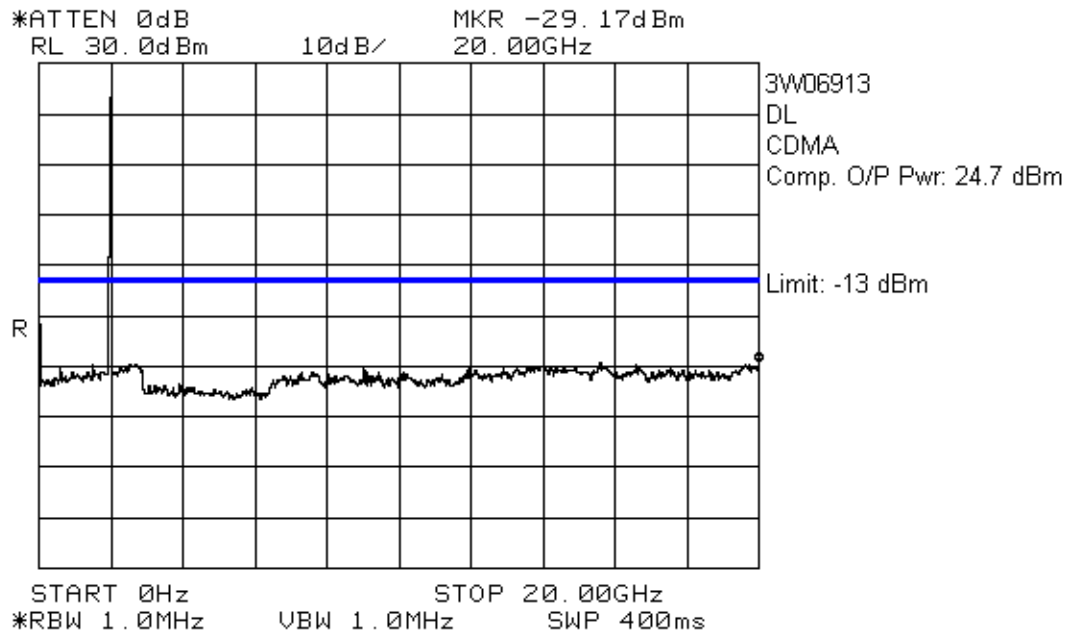
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BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink CDMA



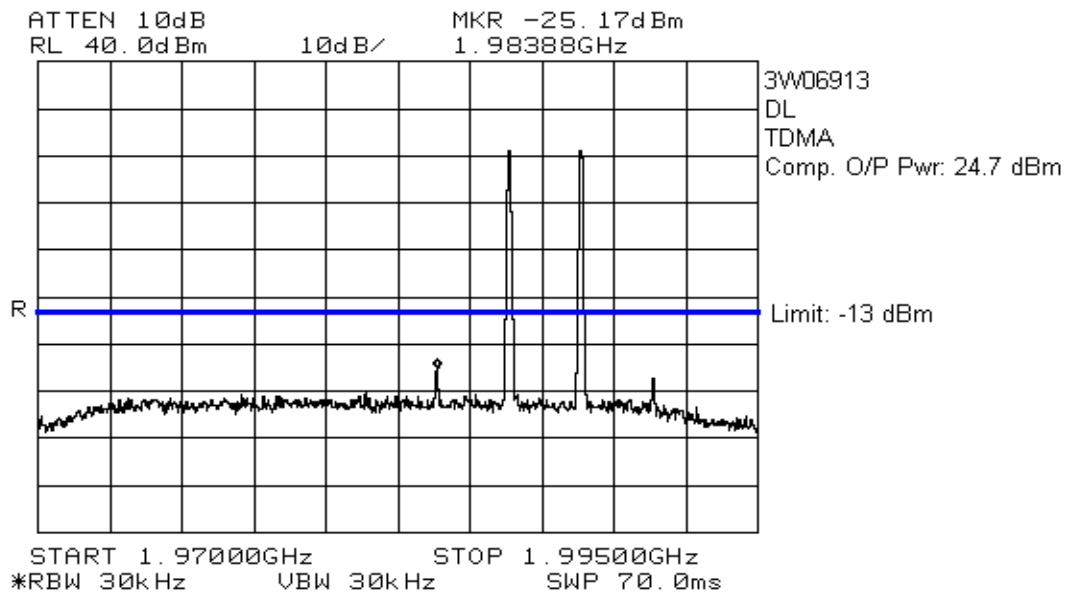
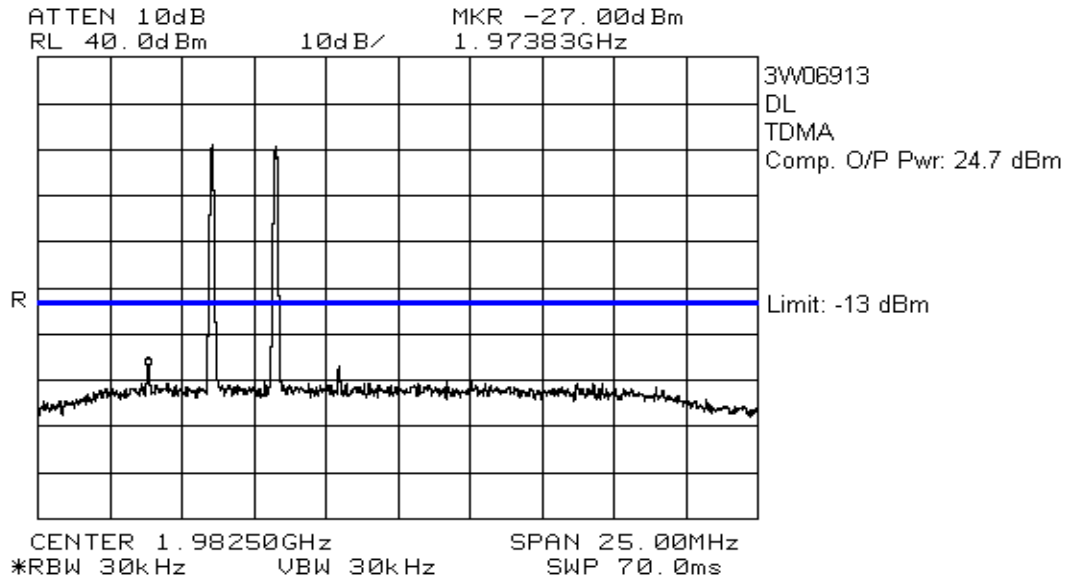


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

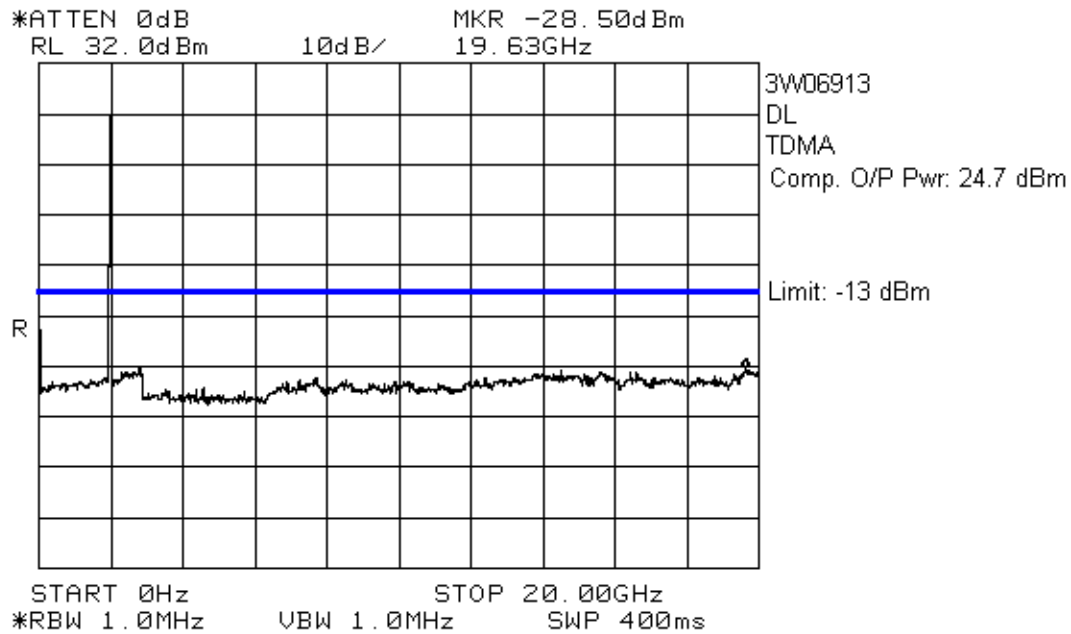


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink TDMA

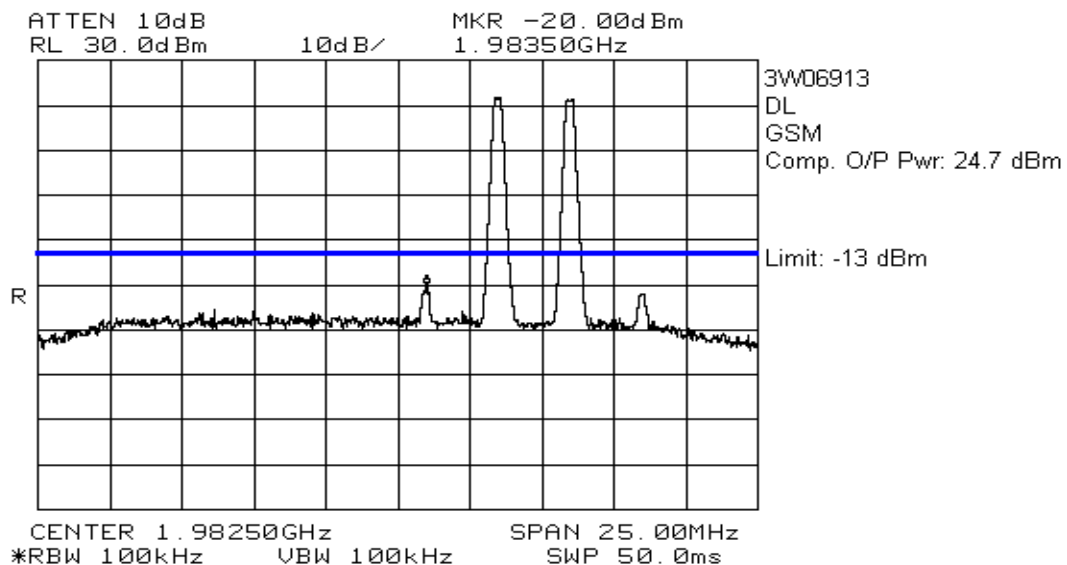
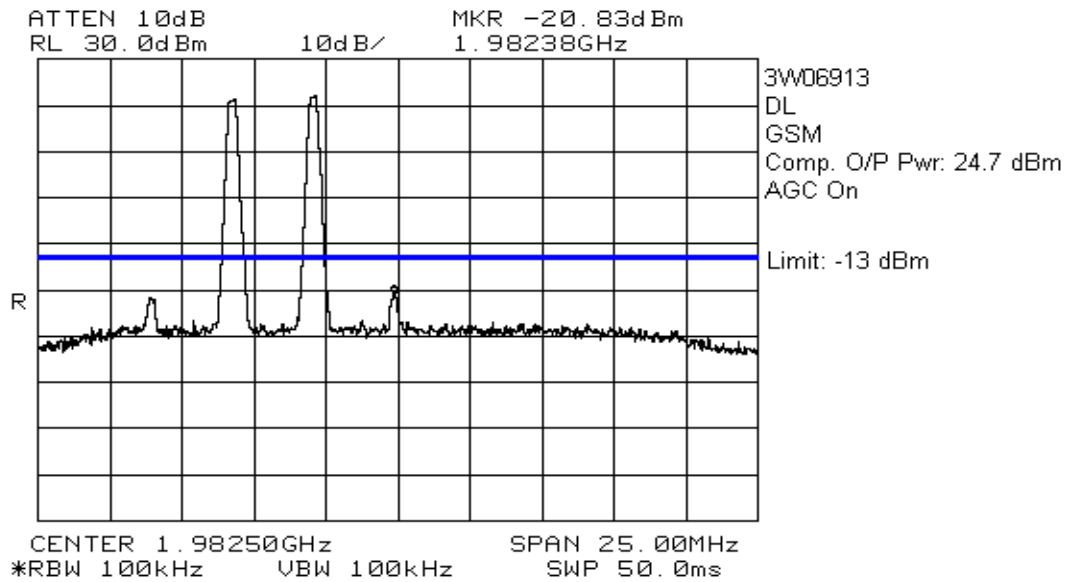


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

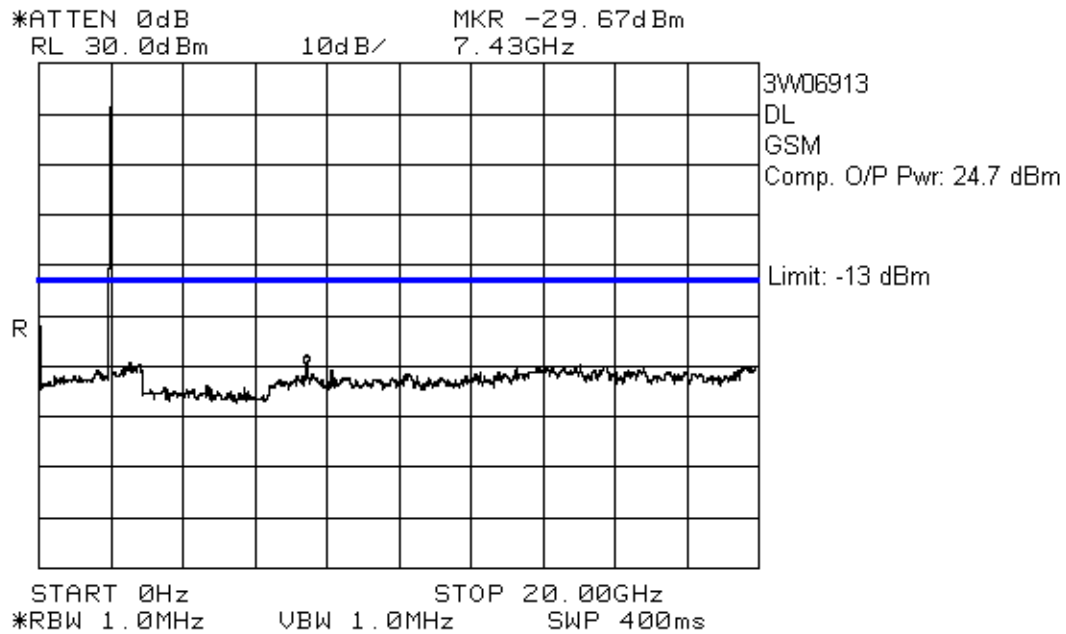


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink GSM



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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## **Section 6.        Field Strength of Spurious**

**Para. No.: 2.1053**

<b>Test Performed By: Kevin Carr</b>	<b>Date of Test: 13 Mar. 2003</b>
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**Minimum Standard:**        Para. No.: 24.238.

**Test Results:**                Complied.

**Test Data:**                    As per attached tabulated data.

*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

**BDA-PCS/A-1/1W-80-B**

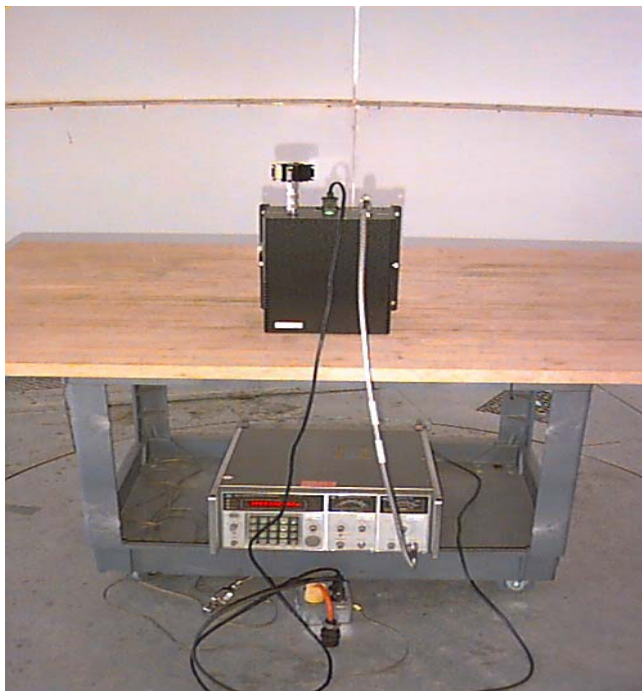
Radiated Disturbance Test Data:

Test Date: 13 Mar 2003										
Engineer's Name: Kevin Carr										
Temperature (C°): 0							Humidity %: 51			
Tested as per (Table Top/Floor Standing): Table Top										
Test Distance (meters): 3							Range: A			
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dBμV)	Sig. Sub. Factor (dB)	Cable Loss (dB)	Emission Level (dBm)	Limit (dB/m)	Margin (dB)	Detector	Amp.
3874.0000	Horn2	V	61.7	-123.9	7.8	-54.4	-13.0	41.4	Peak	2-4GHz
3874.0000	Horn2	H	59.3	-124.2	7.8	-57.1	-13.0	44.1	Peak	2-4GHz
5811.0000	Horn2	V	59.0	-119.1	10.2	-49.9	-13.0	36.9	Peak	4-8GHz
5811.0000	Horn2	H	58.0	-116.6	10.2	-48.4	-13.0	35.4	Peak	4-8GHz
7748.0000	Horn2	V	57.5	-115.4	12.3	-45.6	-13.0	32.6	Peak	4-8GHz
7748.0000	Horn2	H	57.7	-115.7	12.3	-45.7	-13.0	32.7	Peak	4-8GHz
3714.0000	Horn2	V	61.5	-124.4	6.6	-56.2	-13.0	43.2	Peak	2-4GHz
3714.0000	Horn2	H	60.5	-125.8	6.6	-58.6	-13.0	45.6	Peak	2-4GHz
5571.0000	Horn2	V	56.2	-118.1	9.0	-52.9	-13.0	39.9	Peak	4-8GHz
5571.0000	Horn2	H	55.8	-115.3	9.0	-50.5	-13.0	37.5	Peak	4-8GHz
7428.0000	Horn2	V	58.8	-115.8	11.2	-45.8	-13.0	32.8	Peak	4-8GHz
7428.0000	Horn2	H	58.7	-116.0	11.2	-46.1	-13.0	33.1	Peak	4-8GHz
Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole										
Note 2: Detector Legend: Q-Peak = 120 kHz RBW, Average = 1.0 MHz RBW										
Notes:		AGC On, Var. Attn set to 0 dB								

*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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Range Set up: Photo





*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

**BDA-PCS/C-1/1W-80-B**

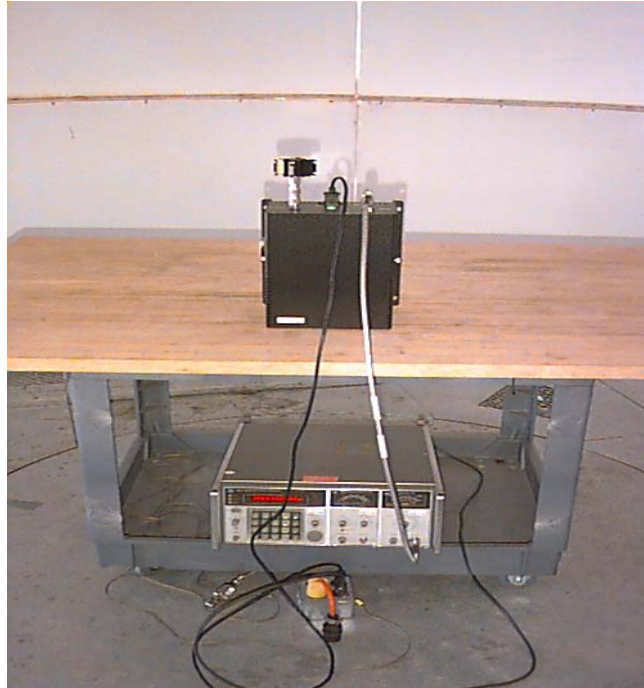
Radiated Disturbance Test Data:

Test Date: 13 Mar 2003										
Engineer's Name: Kevin Carr										
Temperature (C°): 0						Humidity %: 51				
Tested as per (Table Top/Floor Standing): Table Top										
Test Distance (meters): 3						Range: A				
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dBμV)	Sig. Sub. Factor (dB)	Cable Loss (dB)	Emission Level (dBm)	Limit (dB/m)	Margin (dB)	Detector	Amp.
3964.0000	Horn2	V	60.0	-123.7	7.9	-55.8	-13.0	42.8	Peak	2-4GHz
3964.0000	Horn2	H	59.2	-123.3	7.9	-56.3	-13.0	43.3	Peak	2-4GHz
5946.0000	Horn2	V	56.2	-119.1	10.7	-52.2	-13.0	39.2	Peak	4-8GHz
5946.0000	Horn2	H	56.8	-116.9	10.7	-49.5	-13.0	36.5	Peak	4-8GHz
7928.0000	Horn2	V	56.0	-114.5	12.9	-45.6	-13.0	32.6	Peak	4-8GHz
7928.0000	Horn2	H	55.7	-114.3	12.9	-45.7	-13.0	32.7	Peak	4-8GHz
3804.0000	Horn2	V	59.3	-124.0	7.7	-57.0	-13.0	44.0	Peak	2-4GHz
3804.0000	Horn2	H	58.5	-124.9	7.7	-58.7	-13.0	45.7	Peak	2-4GHz
5706.0000	Horn1	V	56.5	-118.9	9.5	-52.8	-13.0	39.8	Peak	4-8GHz
5706.0000	Horn2	H	57.5	-116.1	9.5	-49.1	-13.0	36.1	Peak	4-8GHz
7608.0000	Horn2	V	56.5	-115.6	11.6	-47.5	-13.0	34.5	Peak	4-8GHz
7608.0000	Horn2	H	56.8	-115.6	11.6	-47.2	-13.0	34.2	Peak	4-8GHz
Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole										
Note 2: Detector Legend: Q-Peak = 120 kHz RBW, Average = 1.0 MHz RBW										
Notes:		AGC On, Var. Attn set to 0 dB								

*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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Range Set up: Photo

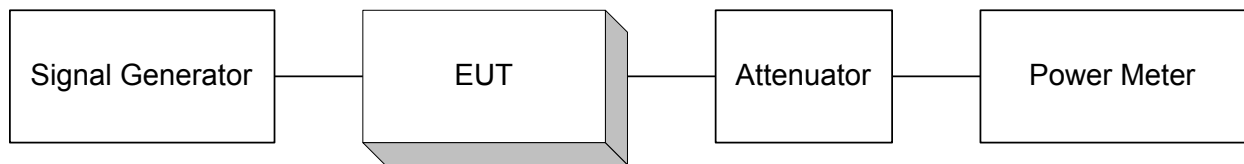


*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

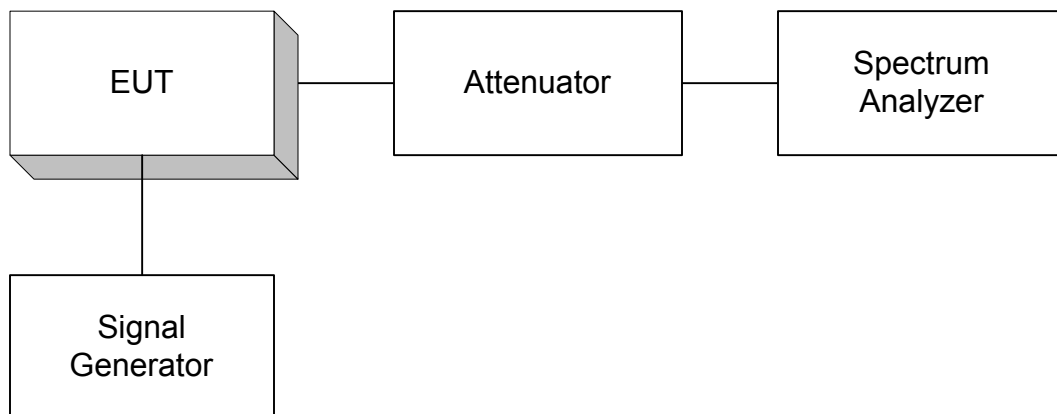
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## **Section 7. Block Diagrams**

### **Para. No. 1046 - R.F. Power Output**



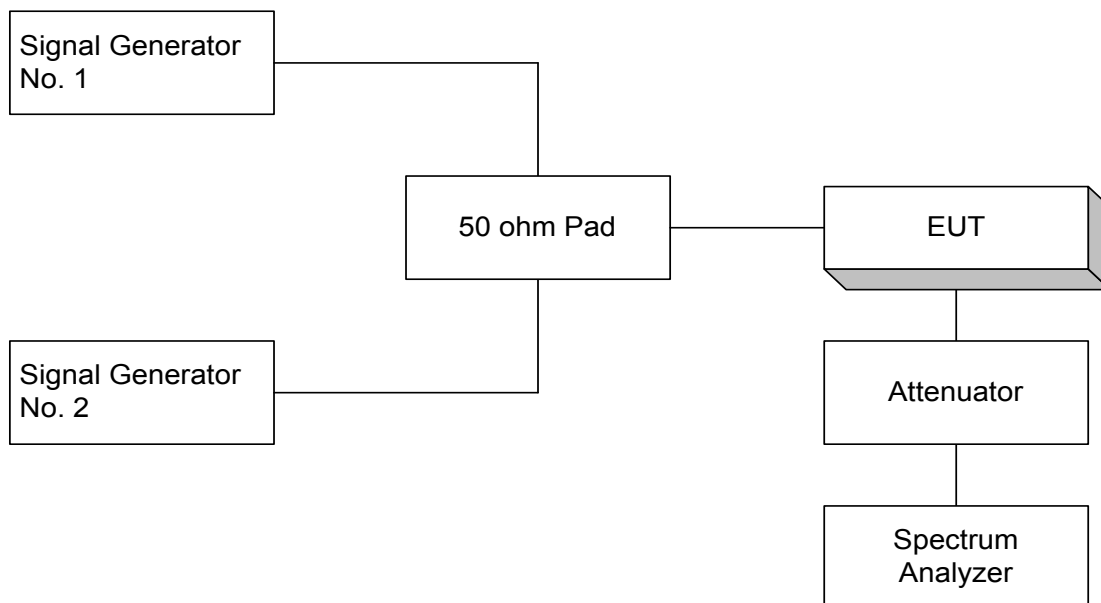
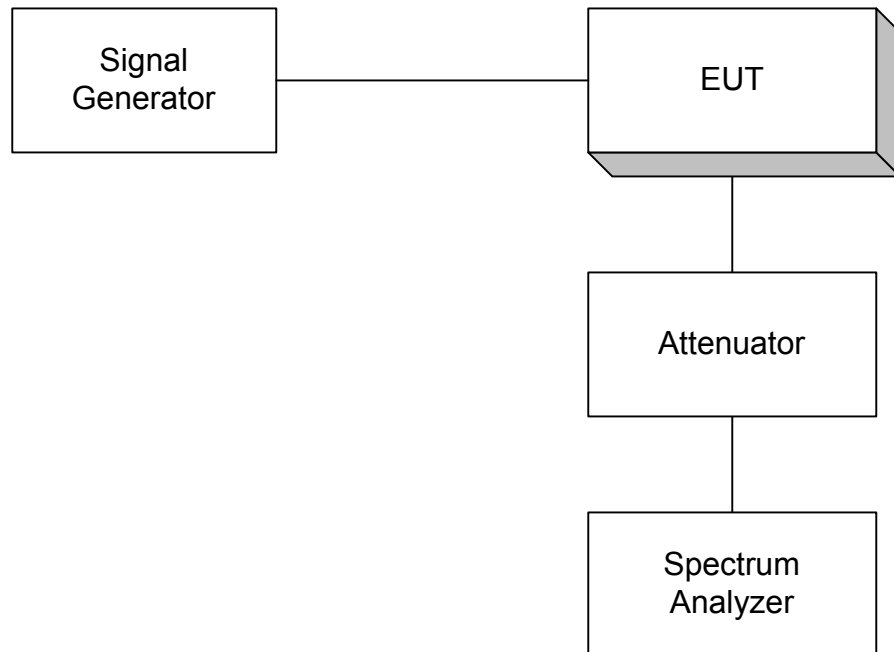
### **Para. No. 2.1049 - Occupied Bandwidth**



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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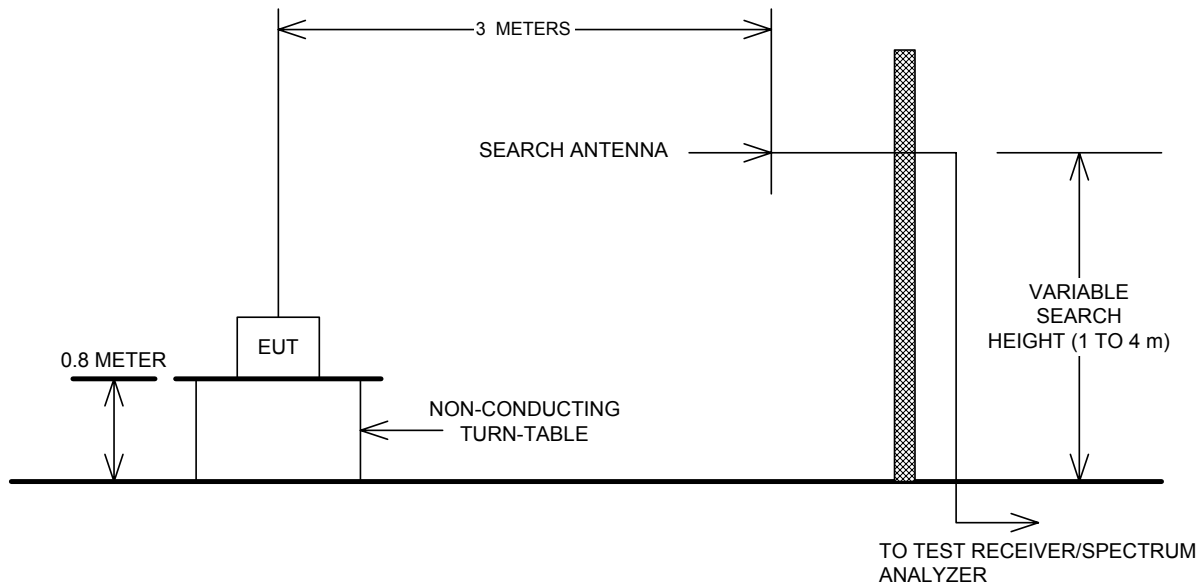
**Para. No. 2.1051 - Spurious Emissions at Antenna Terminals**



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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**Para. No. 2.1053 - Field Strength of Spurious Radiation**



*EQUIPMENT:* BDA-PCS/A-1/1W-80-B And  
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

## Section 8. Test Equipment List

### RADIO TEST EQUIPMENT LIST

CAL Cycle	Equipment	Manufacturer	Model No.	Asset/Serial No.	Last Cal.	Next Cal.
1 Year	Spectrum Analyzer	Hewlett Packard	8565E	FA000981	Jul 15/02	Jul 15/03
1 Year	Horn Antenna #2	EMCO	3115	FA000825	Dec. 09/02	Dec. 09/03
3 Year	Horn 18 – 26.5 GHz	Electro-Metrics	SH-50/60-1	FA000479	July. 07/00	July. 07/03
1 Year	1.0 – 2.0 GHz Amplifier	JCA	12-400	FA001498	June. 04/02	June. 04/03
1 Year	2.0 – 4.0 GHz Amplifier	JCA	24-600	FA001496	June. 04/02	June. 04/03
1 Year	4.0 – 8.0 GHz Amplifier	JCA	48-600	FA001497	June. 04/02	June. 04/03
COU	50 ohm Load	Sage	9600HF	FA000510	COU	COU
COU	Signal Generator	HP	8660C	2044A03304	COU	COU
3 Year	Signal Generator	Rohde & Schwarz	SM1Q03	DE22004	Sept. 18/00	Sept. 18/03
3 Year	Signal Generator	Rhode & Schwarz	SM1Q03E	FA001269	6 Dec. 2000	6 Dec. 2003
COU	5.0 – 18.0 GHz Amplifier	NARDA	DWT-186N23U40	FA001409	COU	COU
COU	18.0 – 26.0 GHz Amplifier	NARDA	BBS-1826N612	FA001550	COU	COU
Note: N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use, OUT = Out For CAL/Repair						