



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

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

Summary Of Test Data

Name Of Test	Para. No.	Result
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

Section 2. General Equipment Specification

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

General Equipment Specifications: Cont.

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

Section 3. RF Power Output

Para. No.: 2.1046

Test Performed By: Kevin Carr	Date of Test: 5 March 2003
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Minimum Standard: Para. No.: 24.232.

Test Results: Complied.

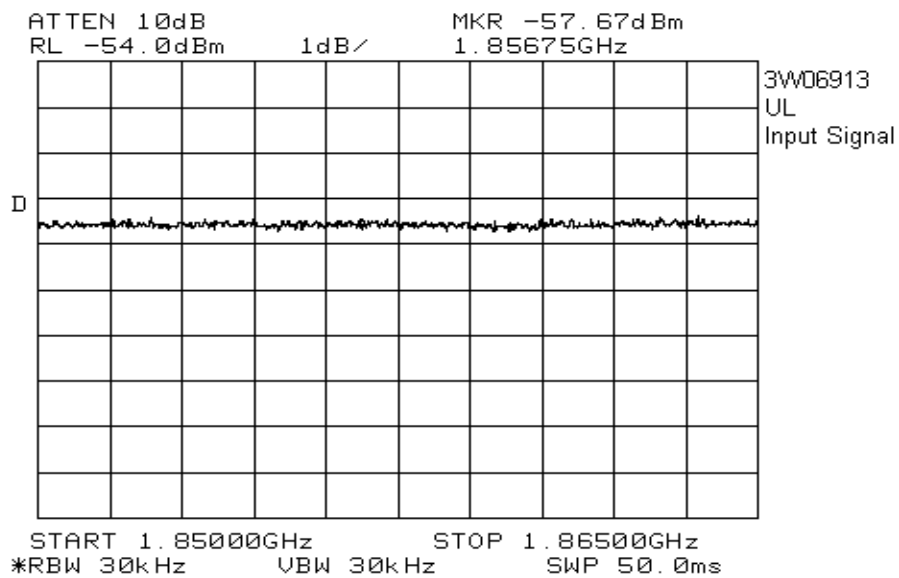
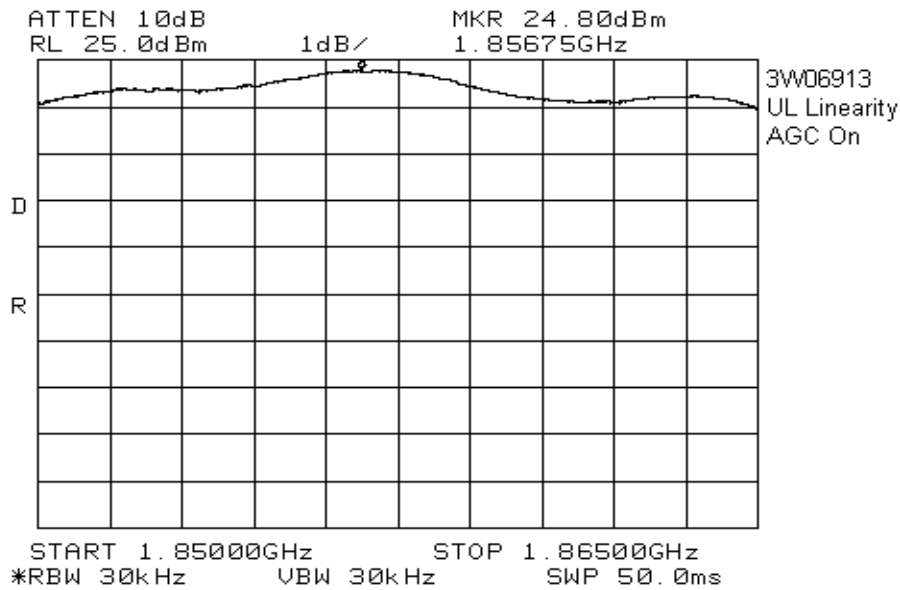
Measurement Data: See attached graphs, The maximum RF output power is within +/- 1 dB of the manufacturer's rating, The RF output power is de-rated according to the number of channels via AGC and is equal to $P_{max} - 10\log N$.

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

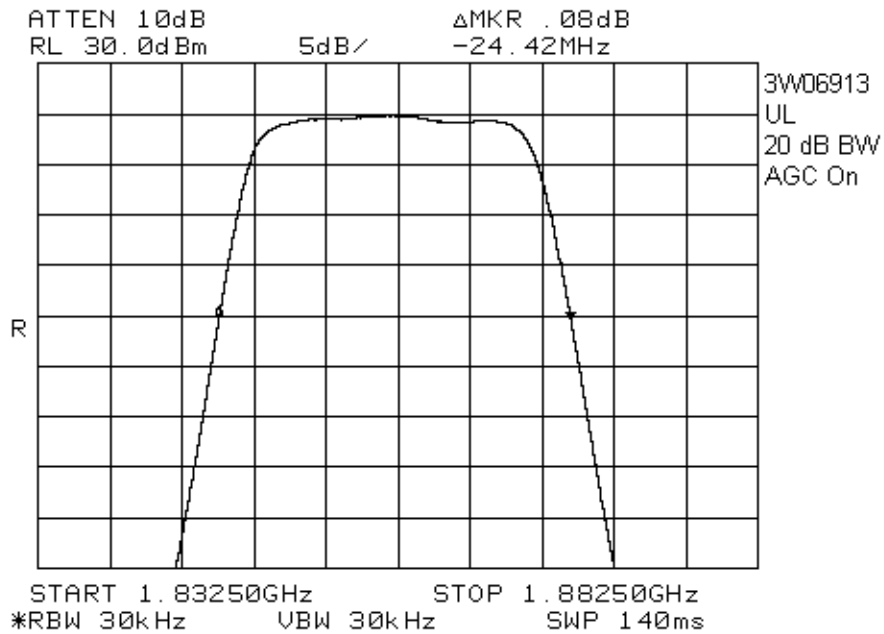
BDA-PCS/A-1/1W-80-B

Uplink



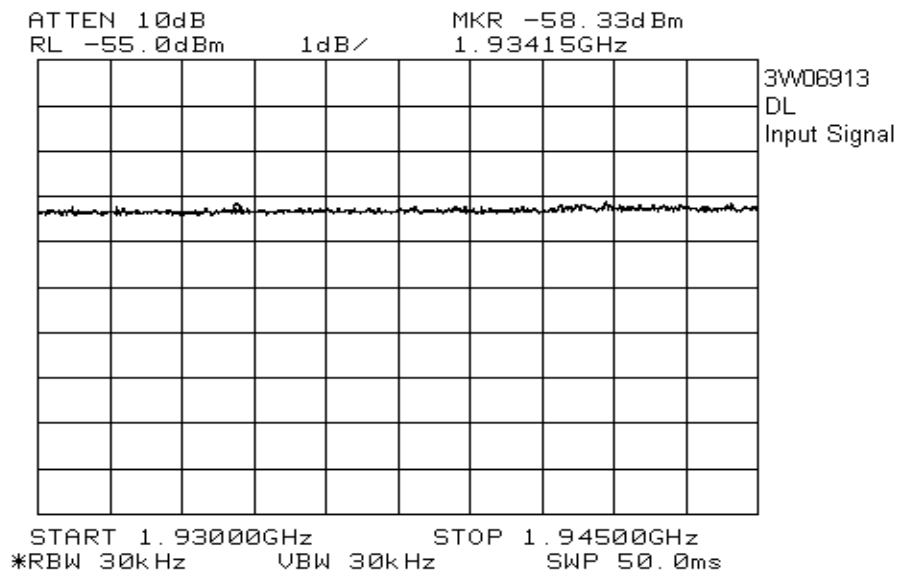
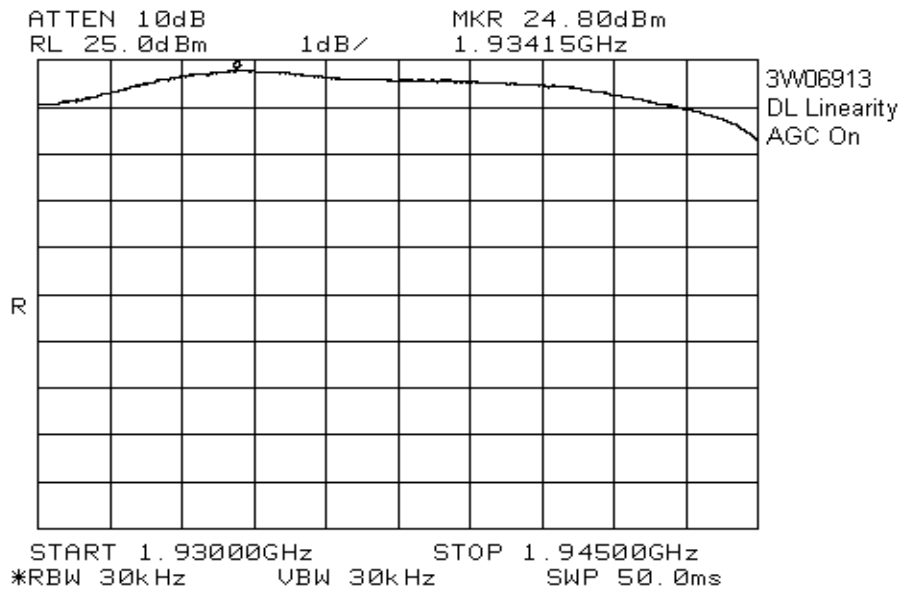
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

PassBand:



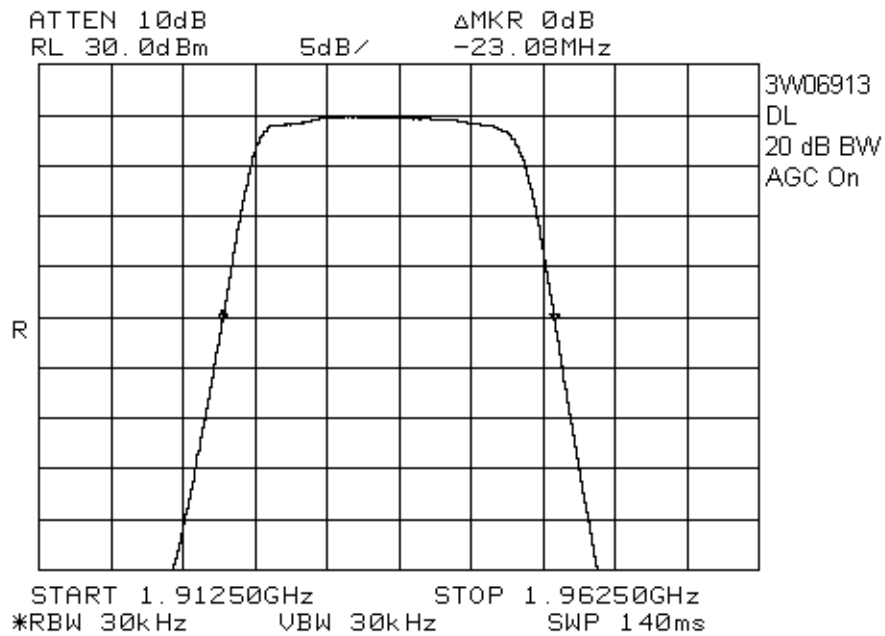
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink



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

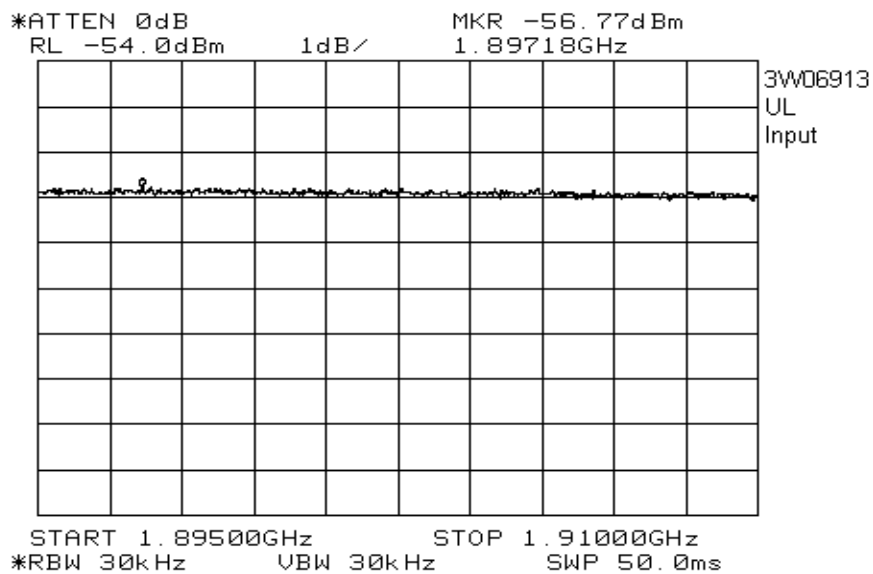
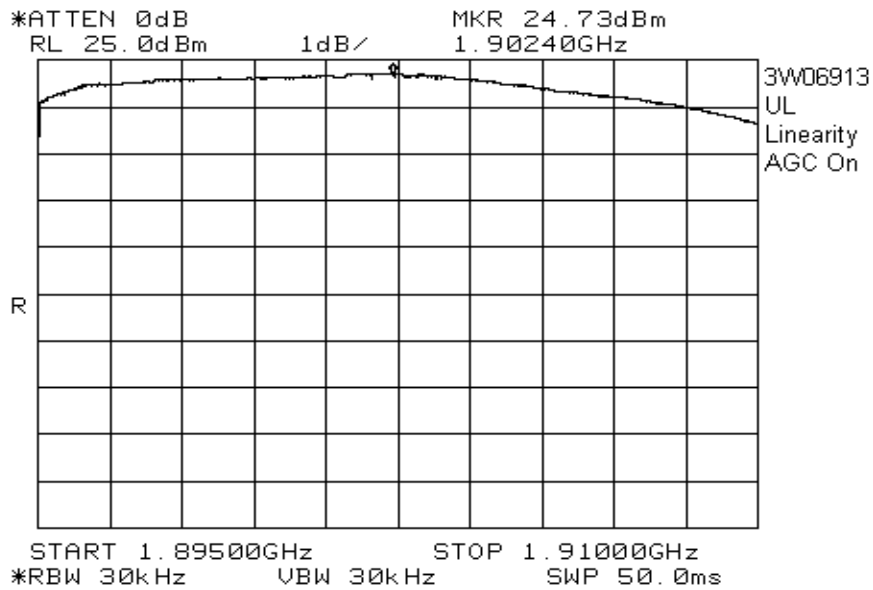
Passband:



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

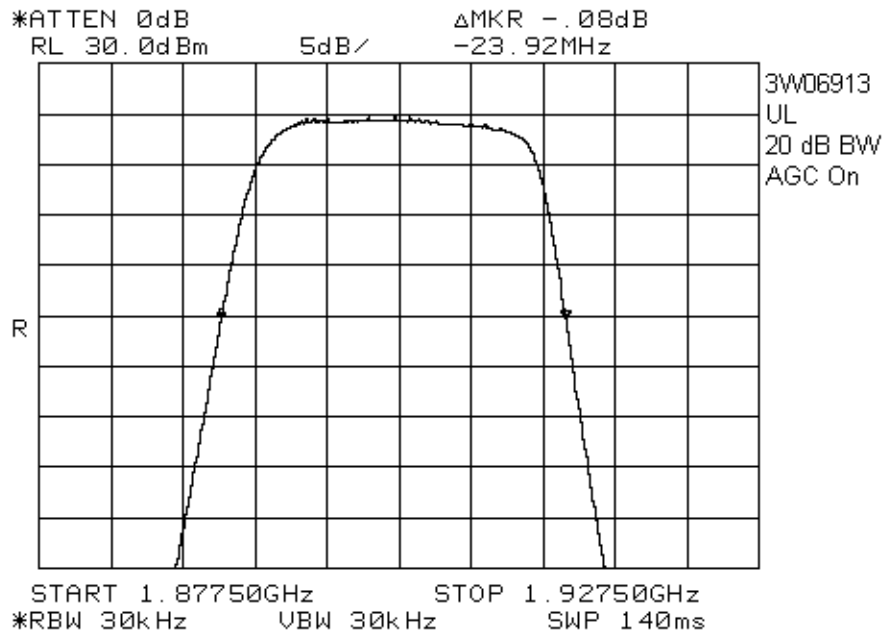
BDA-PCS/C-1/1W-80-B

Uplink



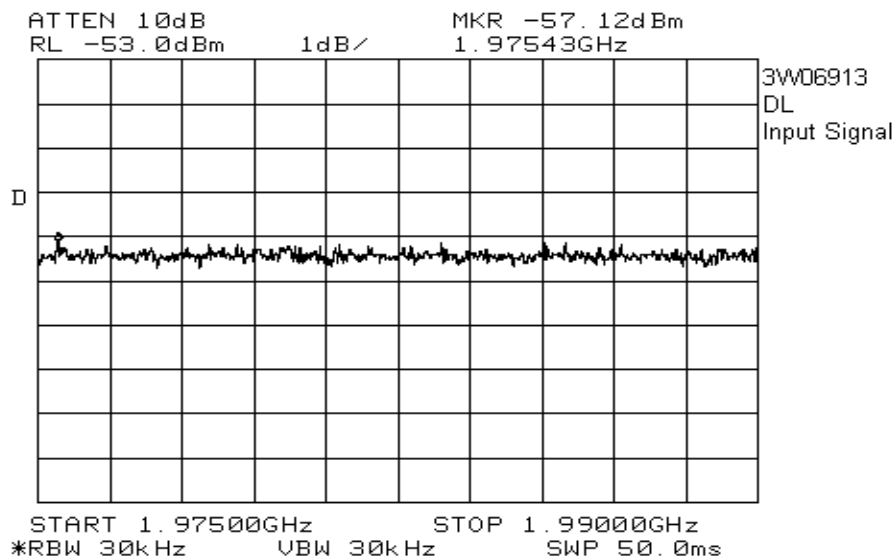
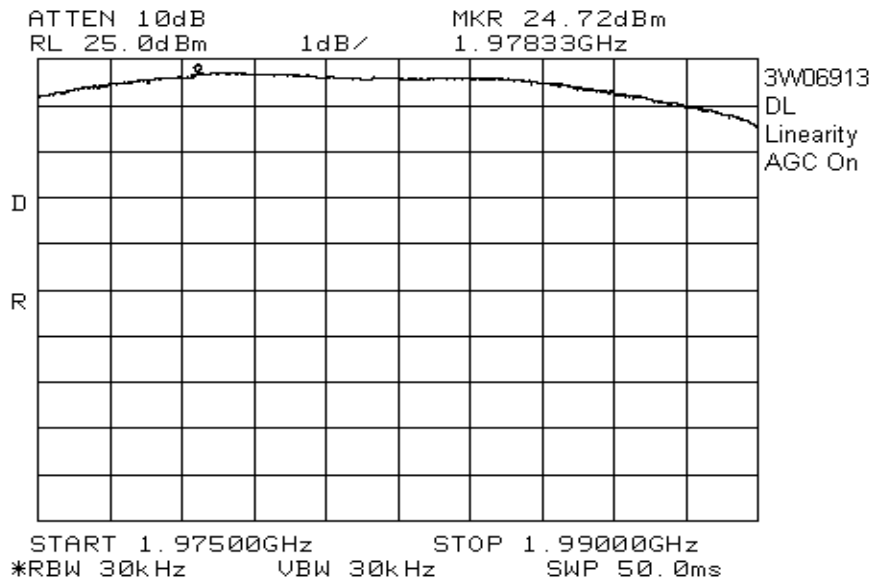
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Passband



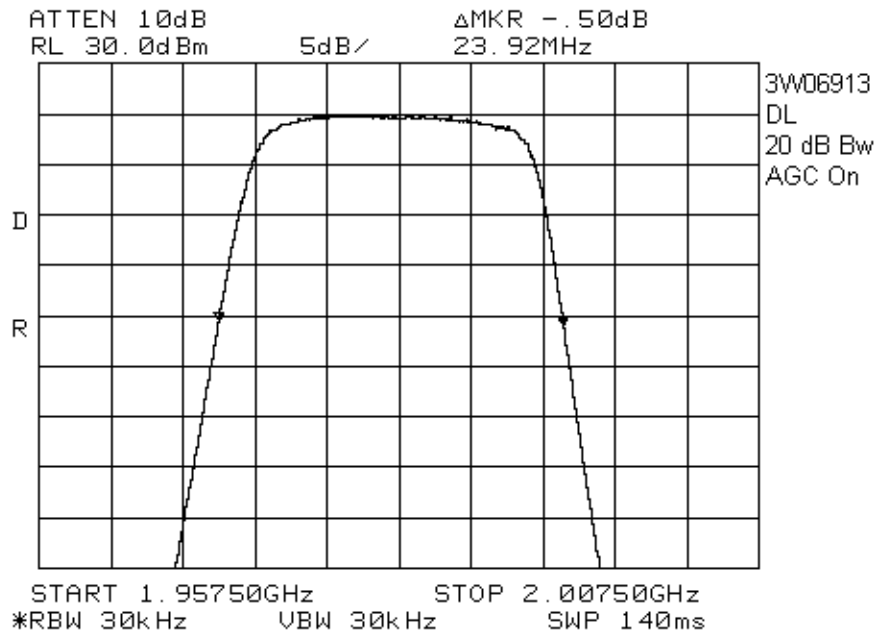
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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

Section 4. Occupied Bandwidth

Para. No.: 2.1049

Test Performed By: Kevin Carr	Date of Test: 5 March 2003
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Minimum Standard: Para. No.: 24.238.

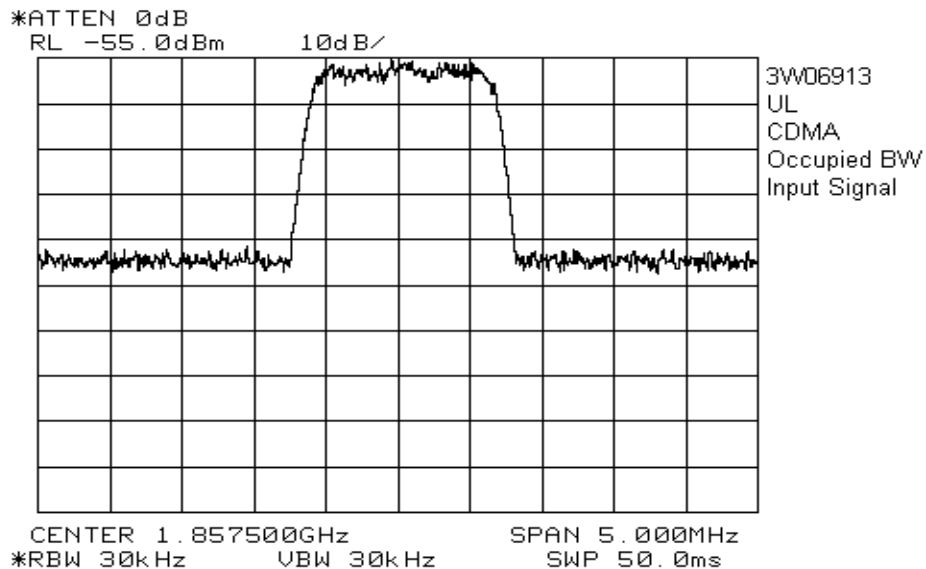
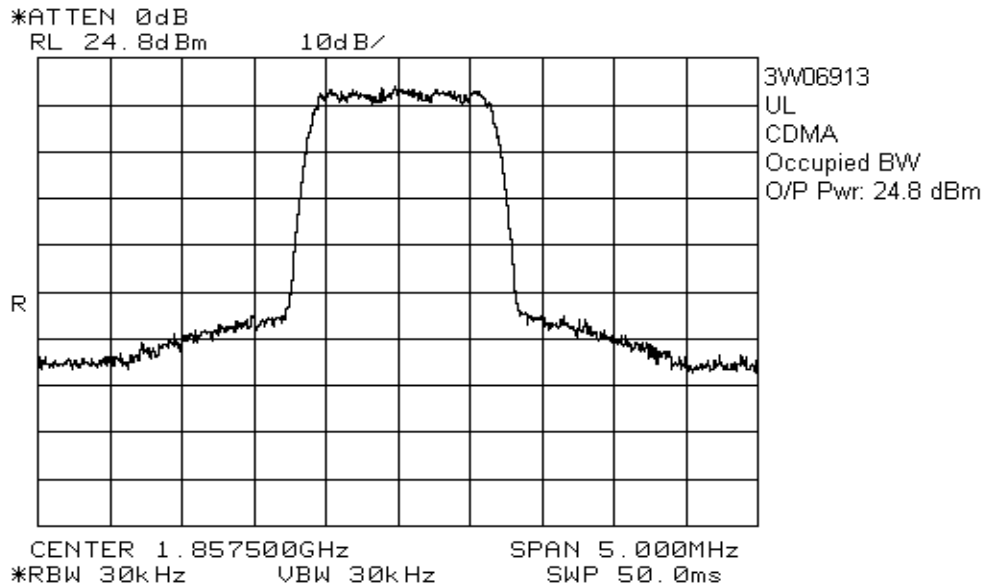
Test Results: Complied.

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

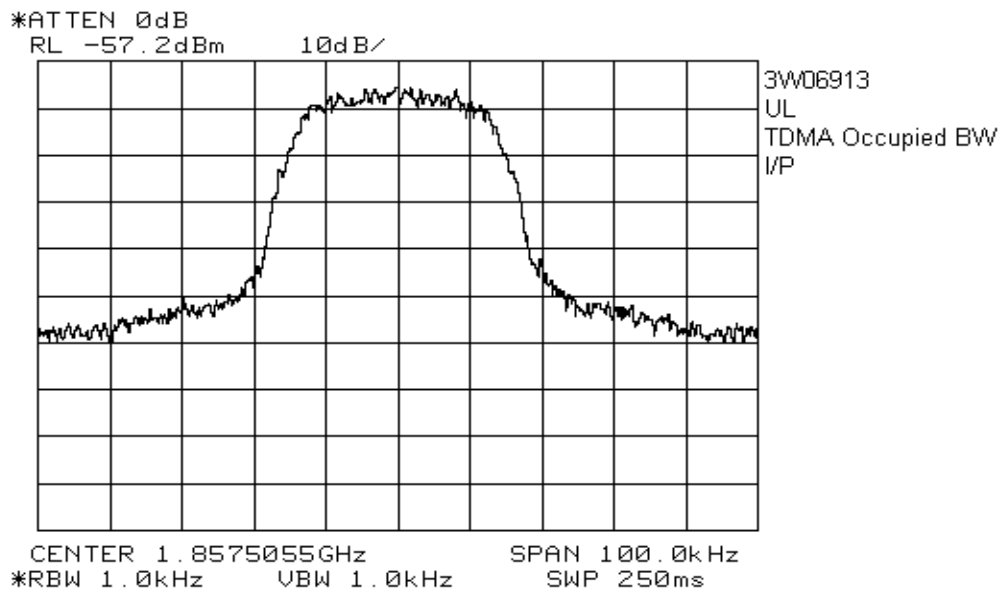
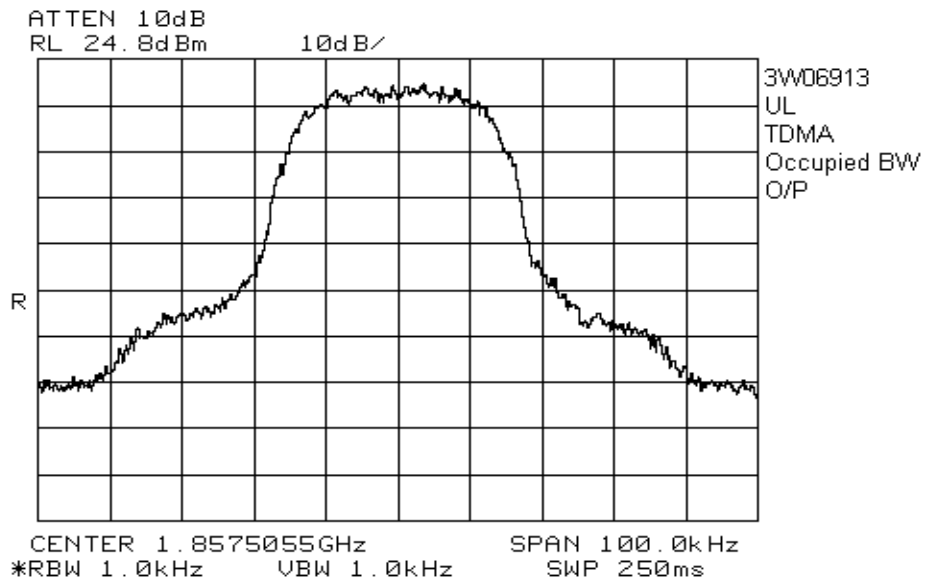
BDA-PCS/A-1/1W-80-B

Uplink, CDMA



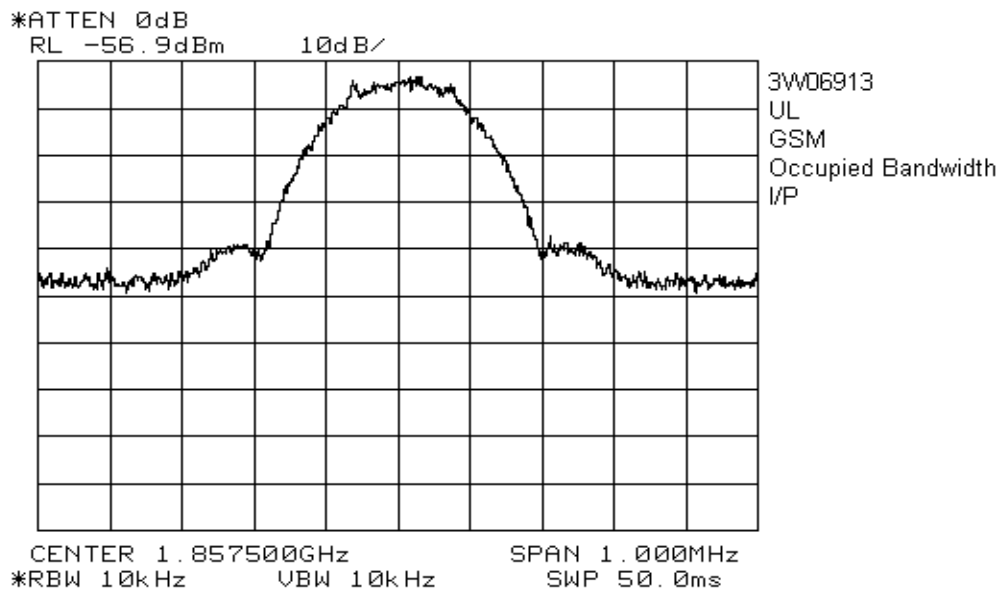
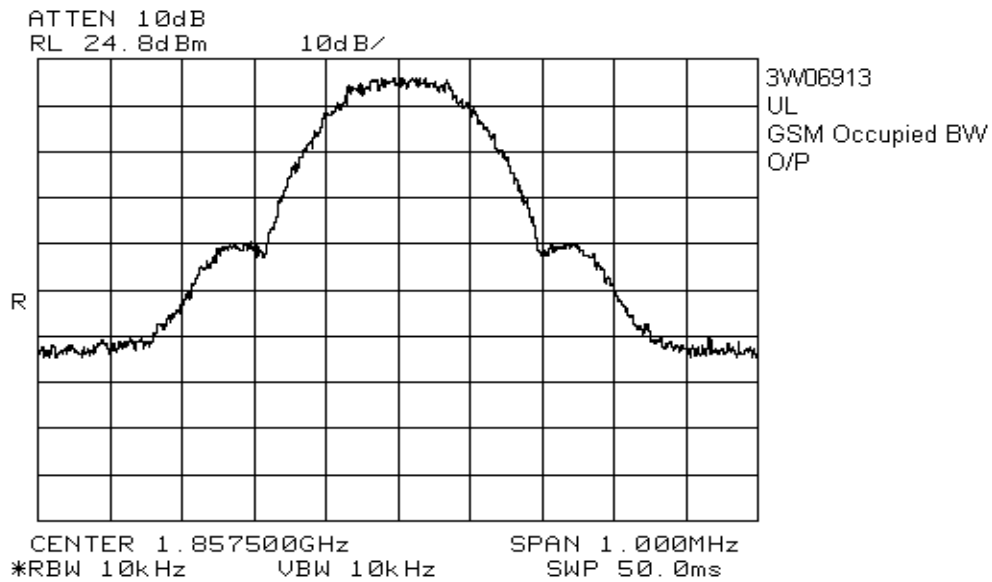
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink, TDMA



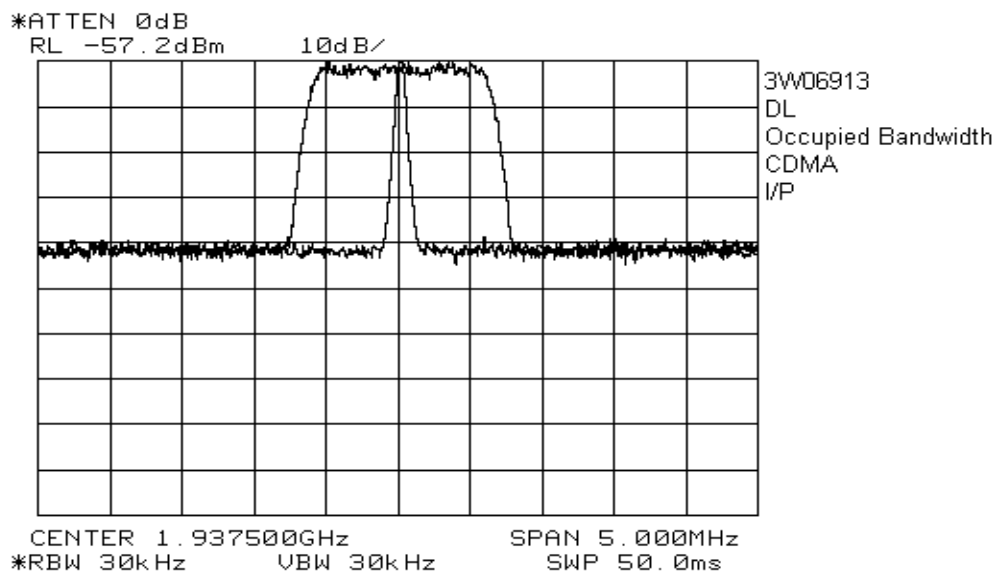
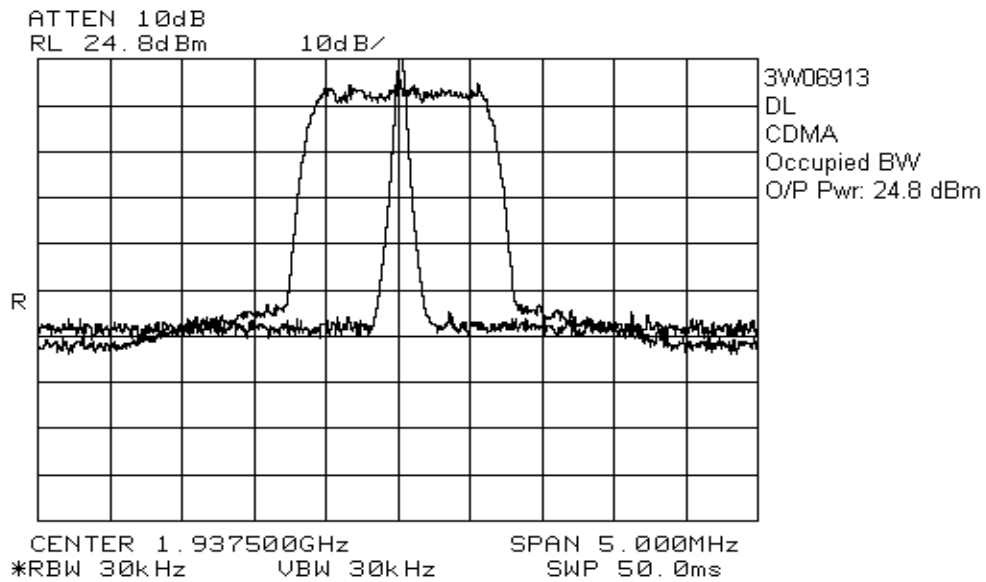
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BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink, GSM



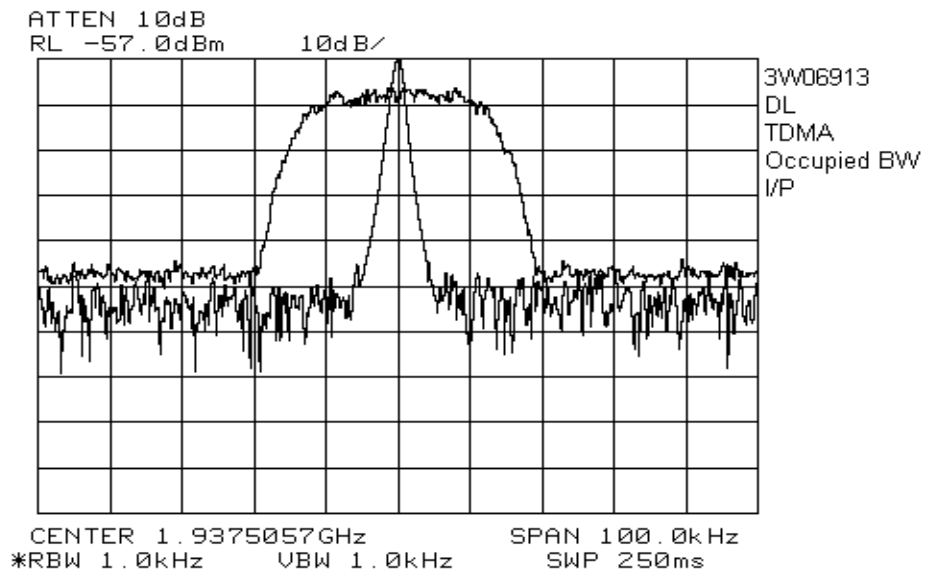
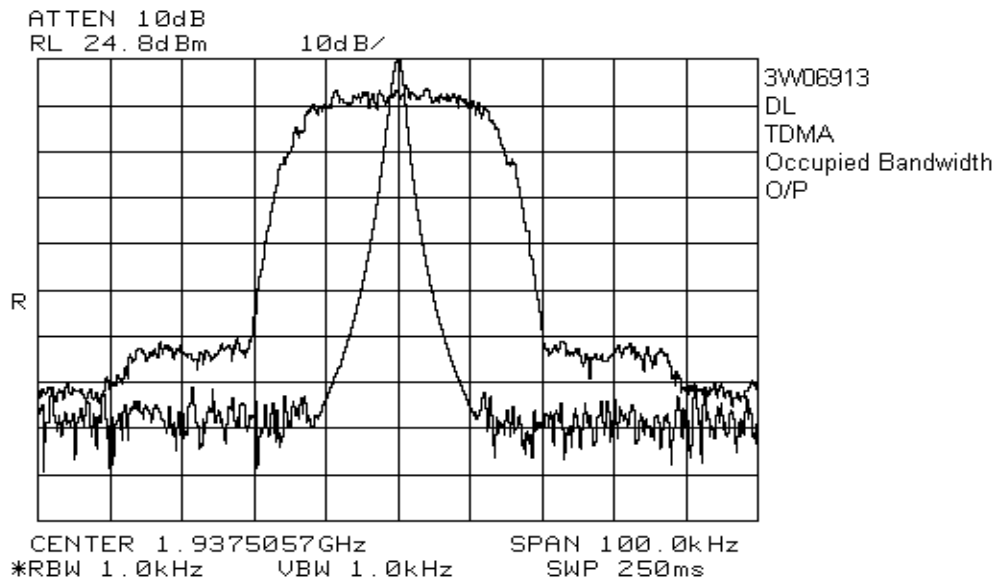
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink, CDMA



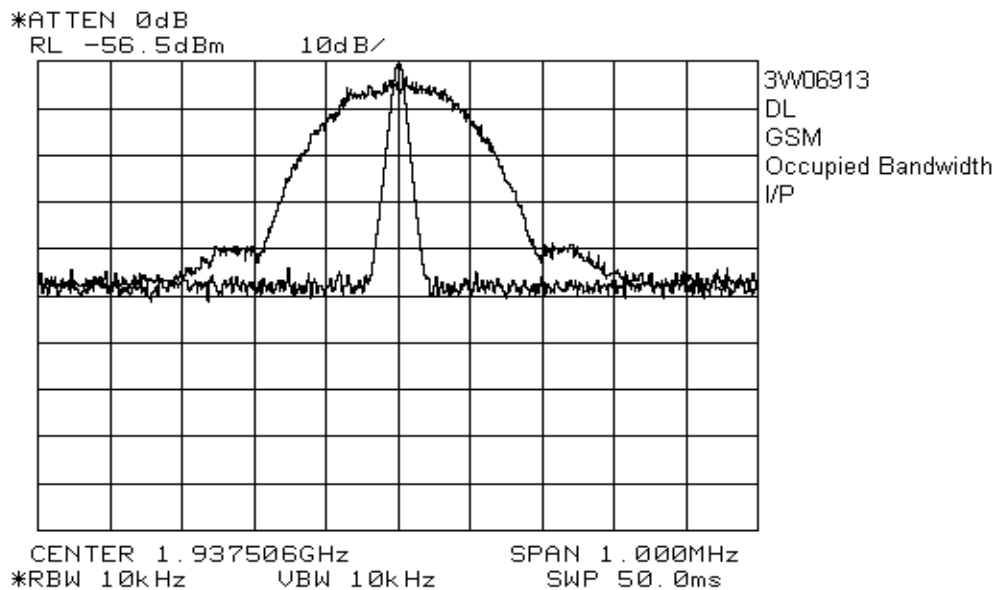
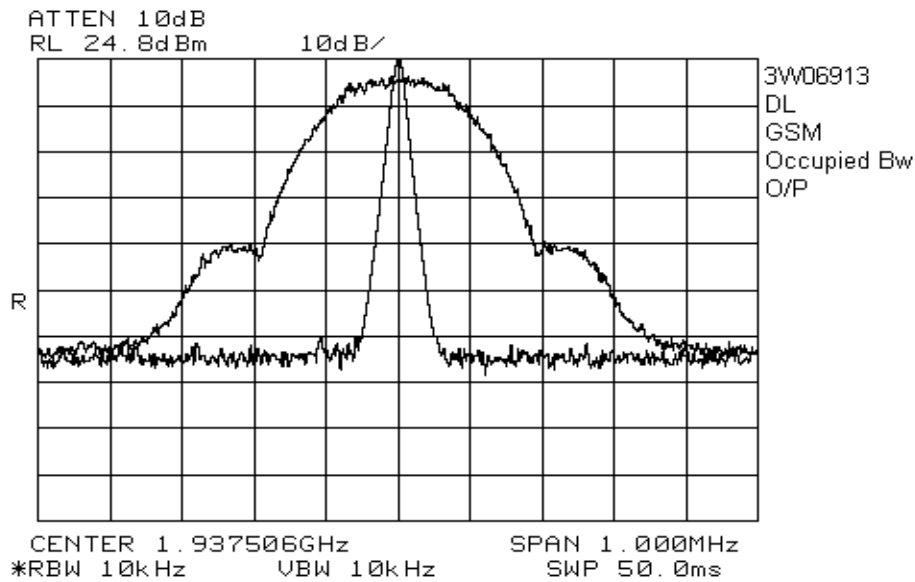
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink, TDMA



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

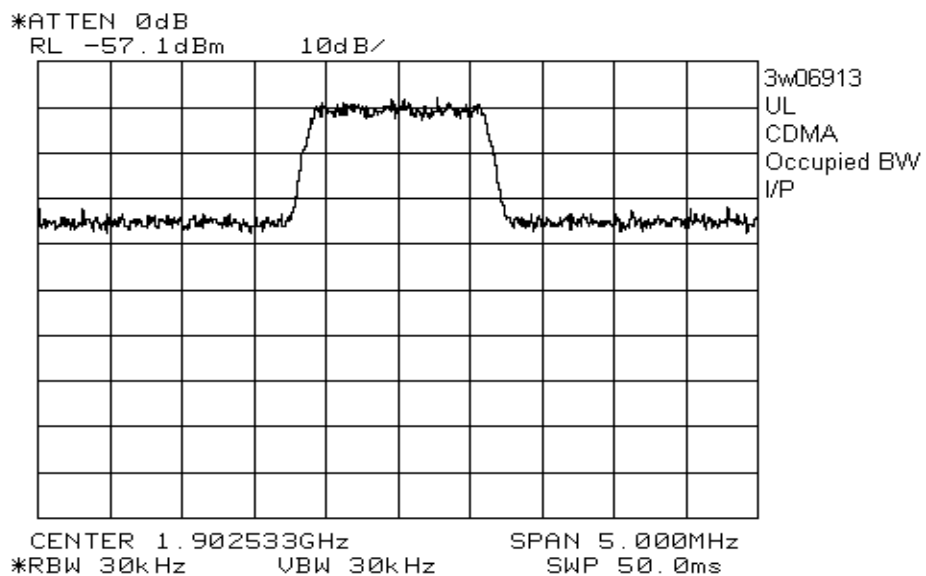
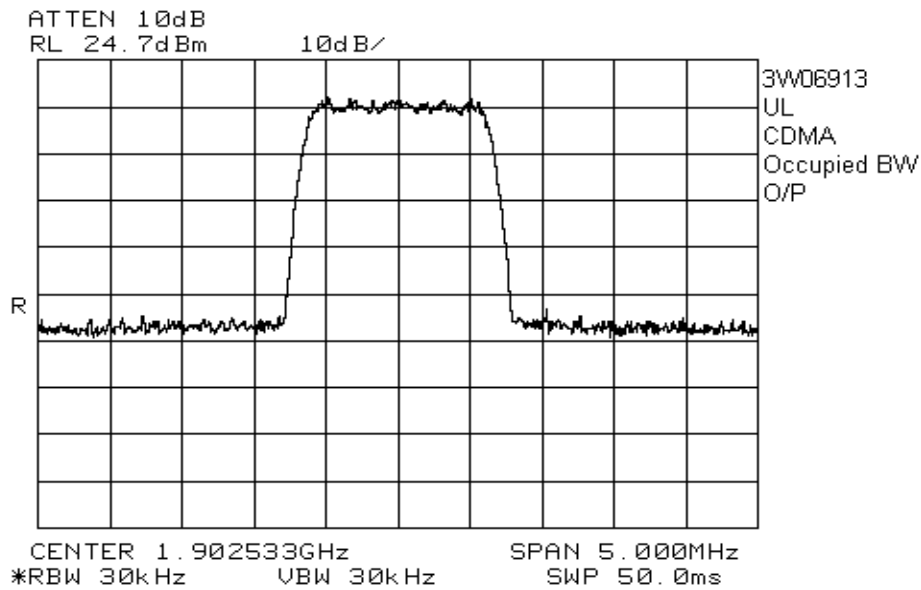
Downlink, GSM



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

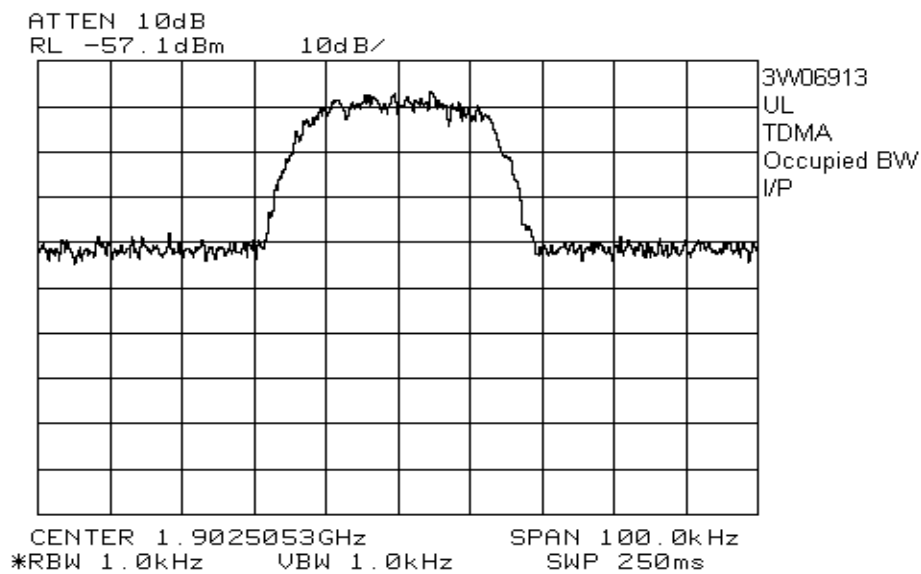
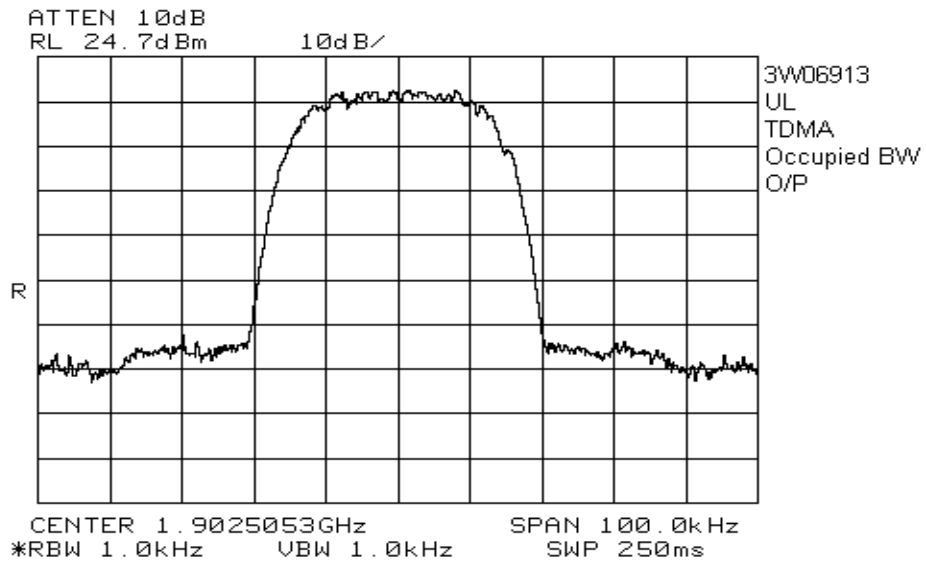
BDA-PCS/C-1/1W-80-B

Uplink CDMA



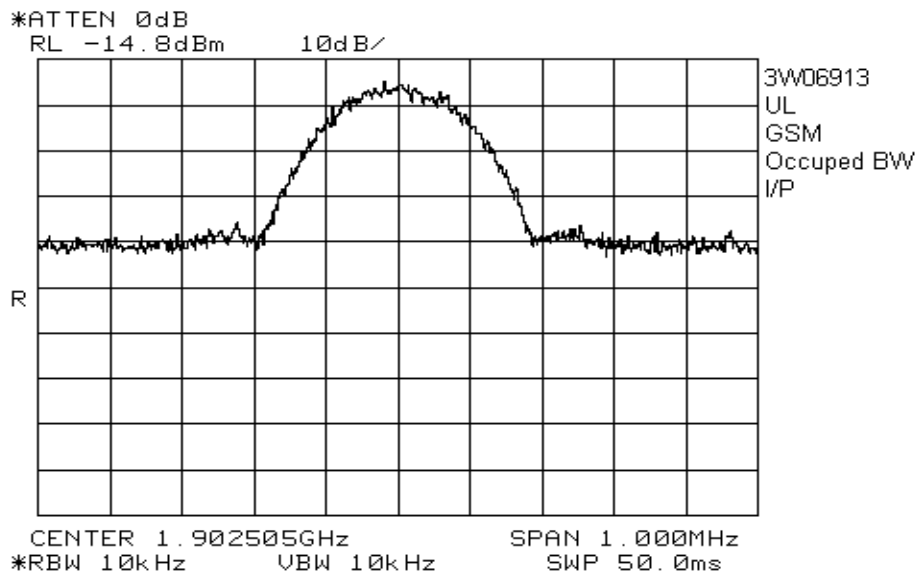
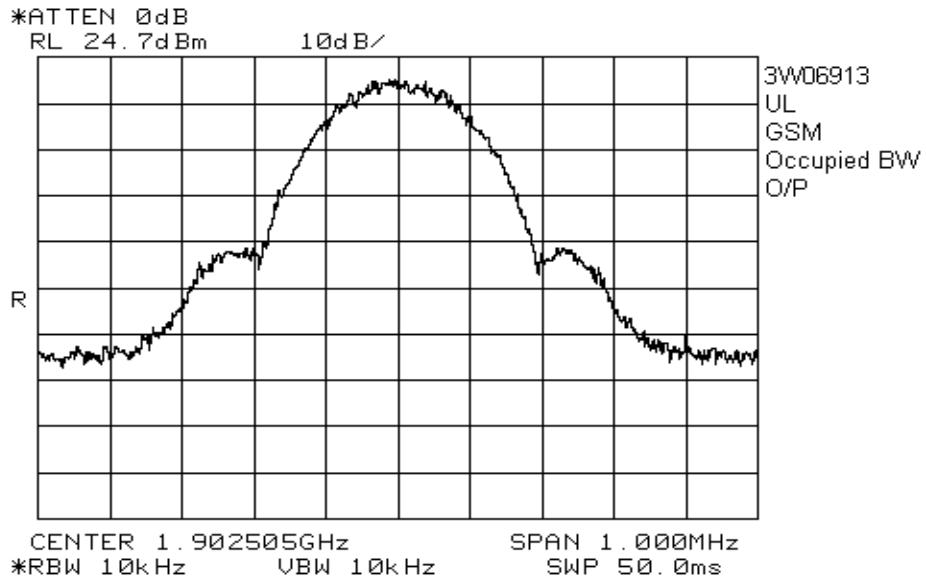
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink TDMA



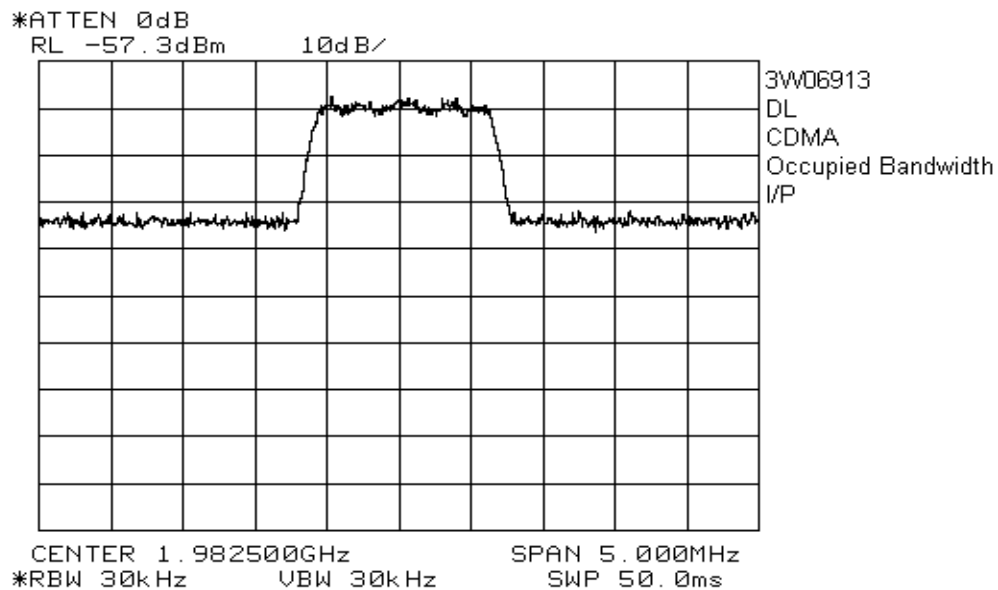
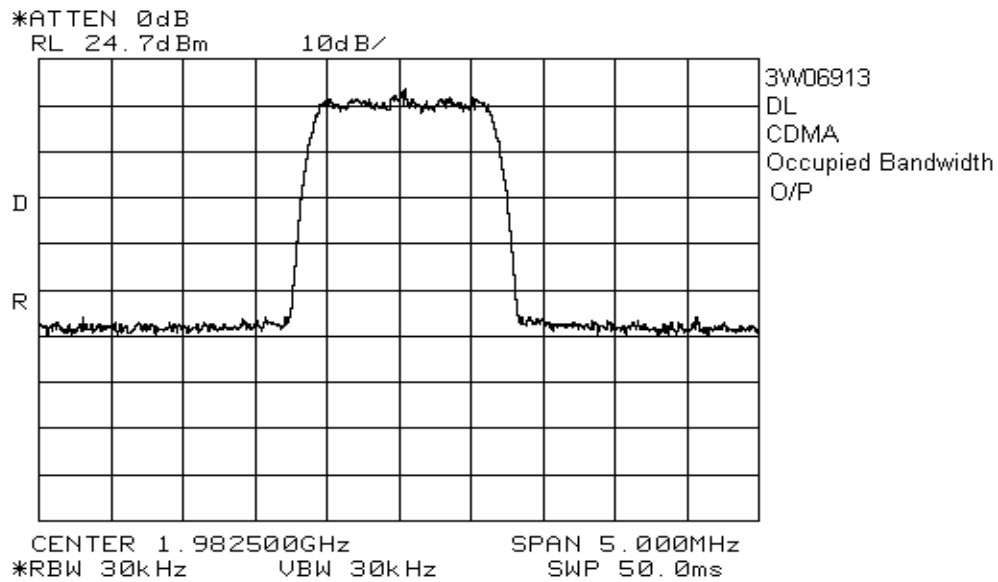
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink GSM



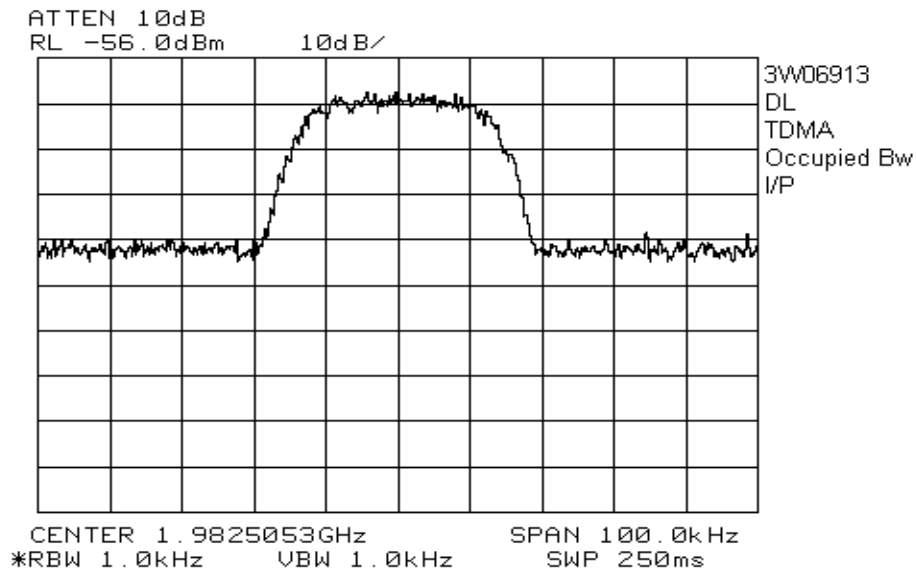
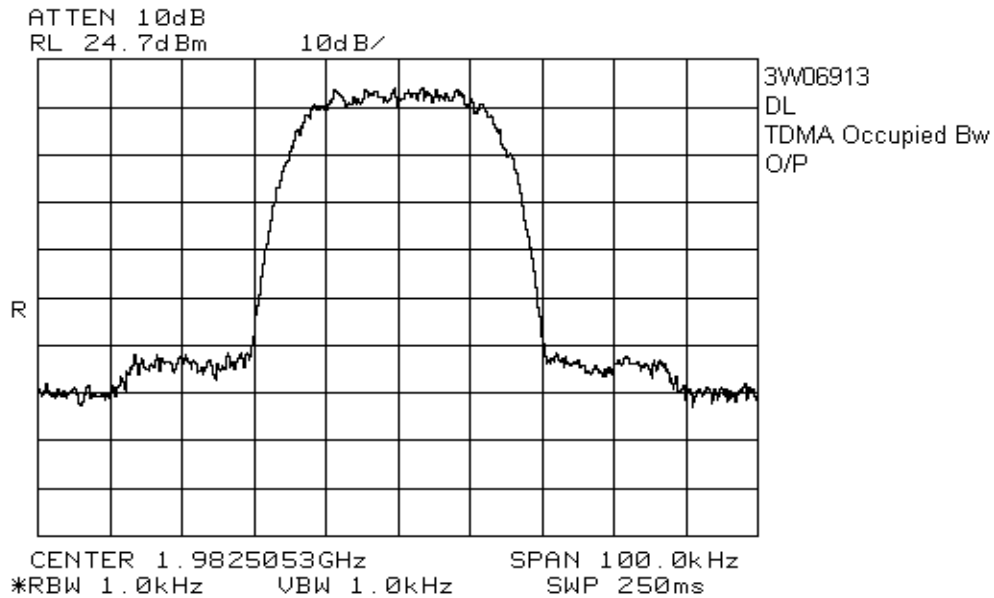
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink CDMA



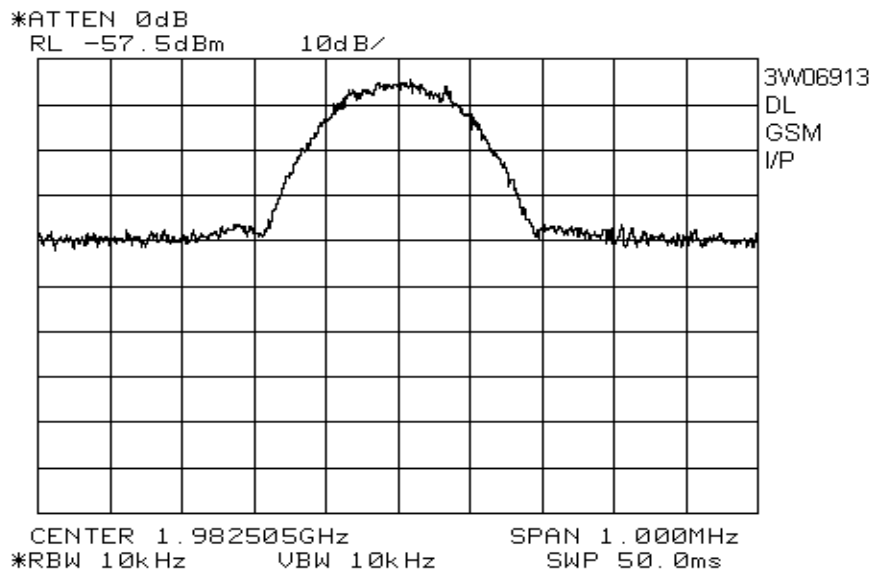
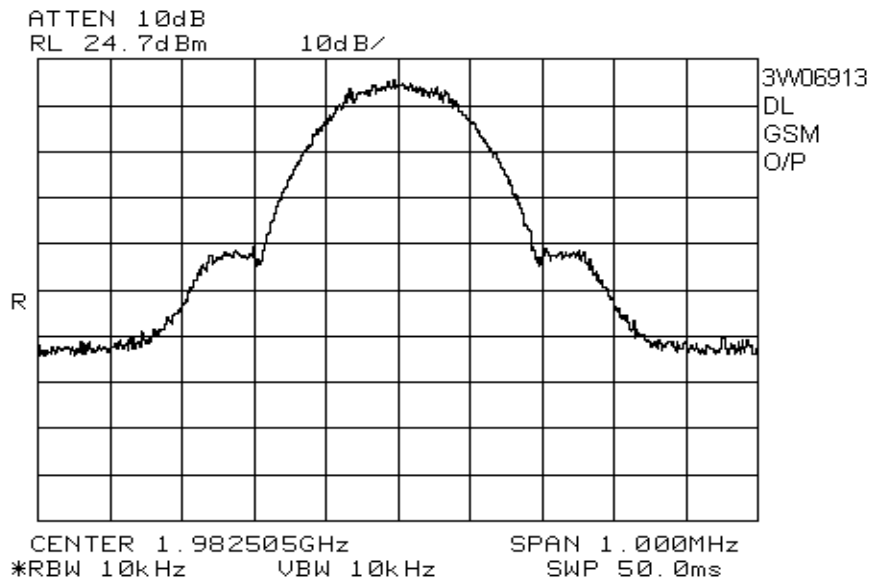
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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

Section 5. Spurious Emissions at Antenna Terminals

Para. No.: 2.1051

Test Performed By: Kevin Carr	Date of Test: 12 Mar 2003
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Minimum Standard: Para. No.: 24.238.

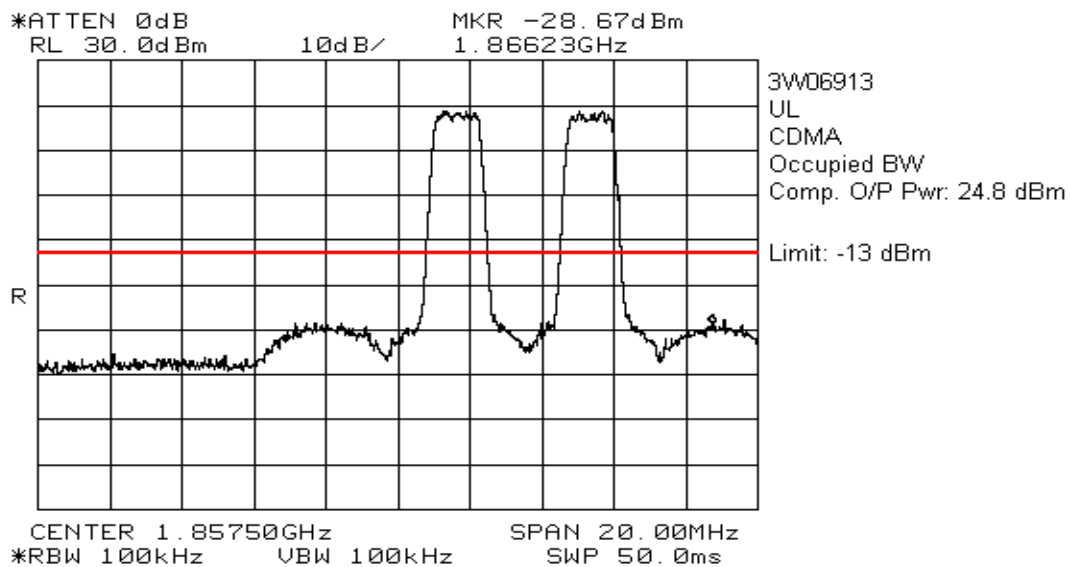
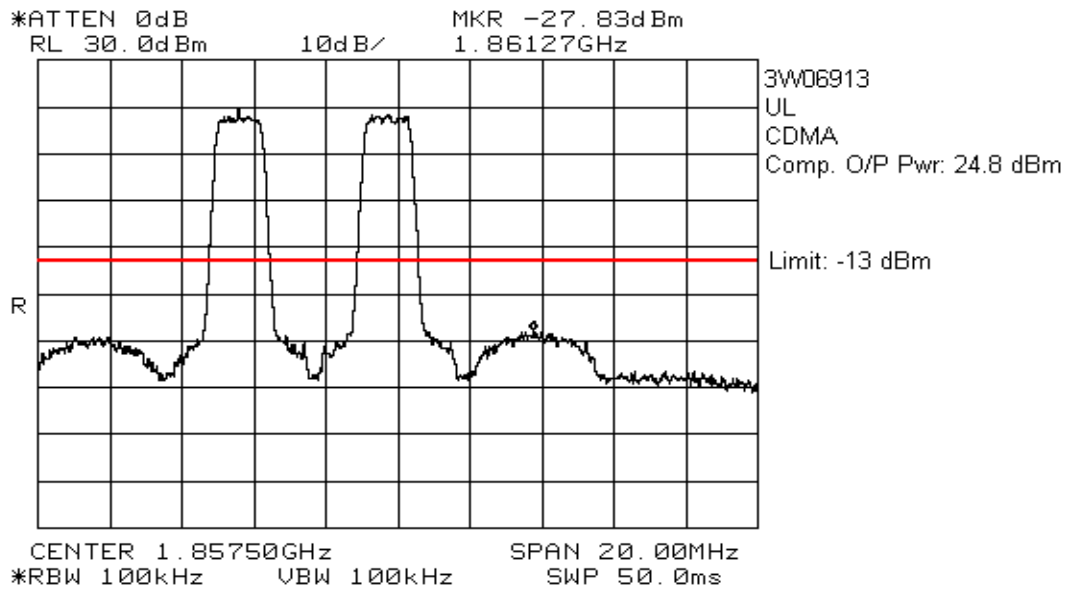
Test Results: Complied.

Test Data: See attached graph(s).

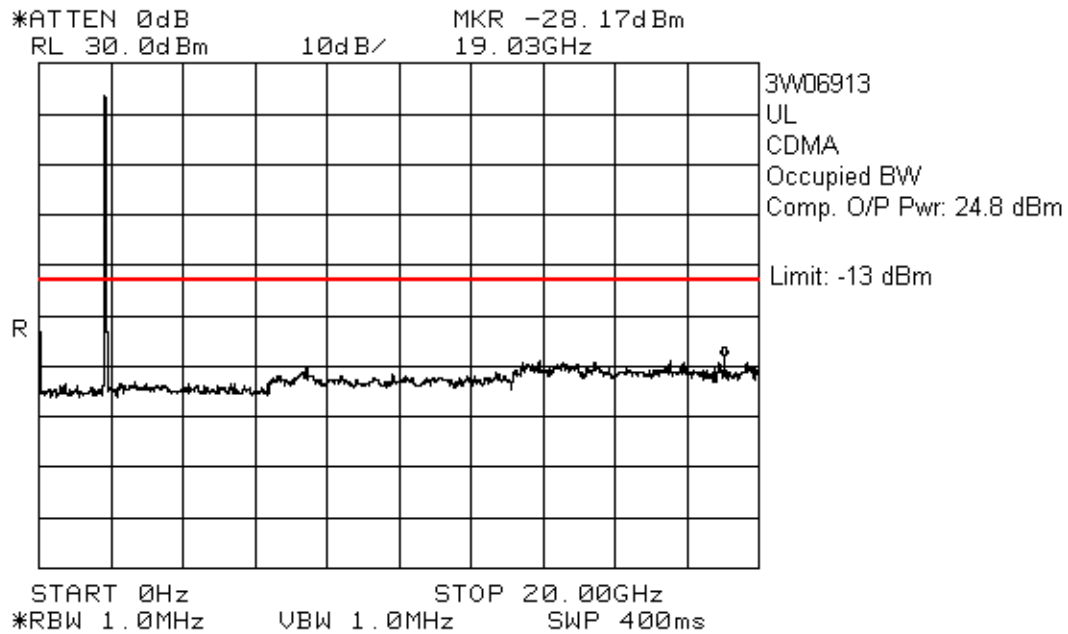
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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

Uplink CDMA

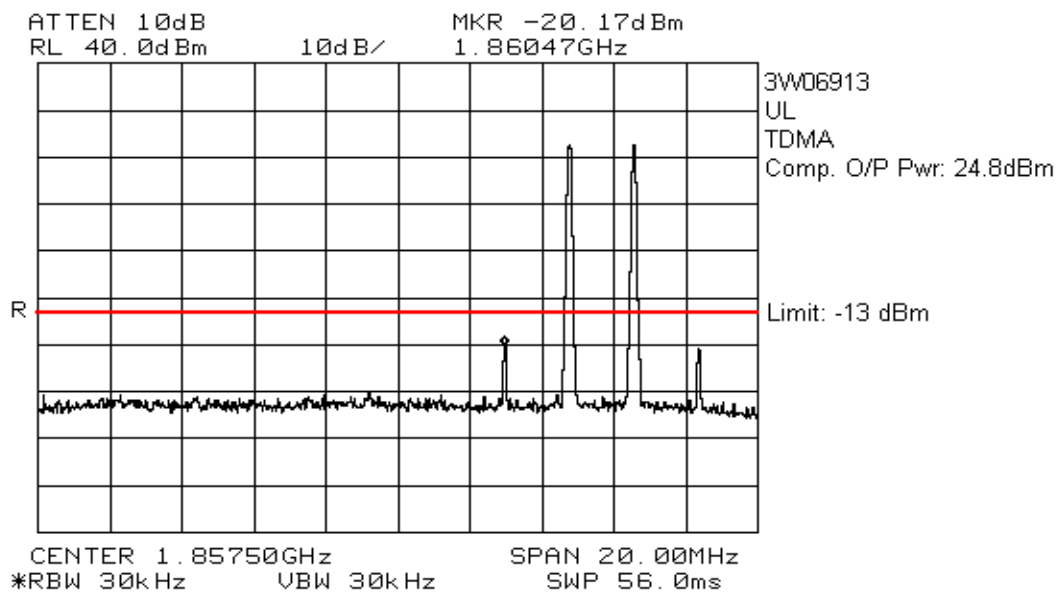
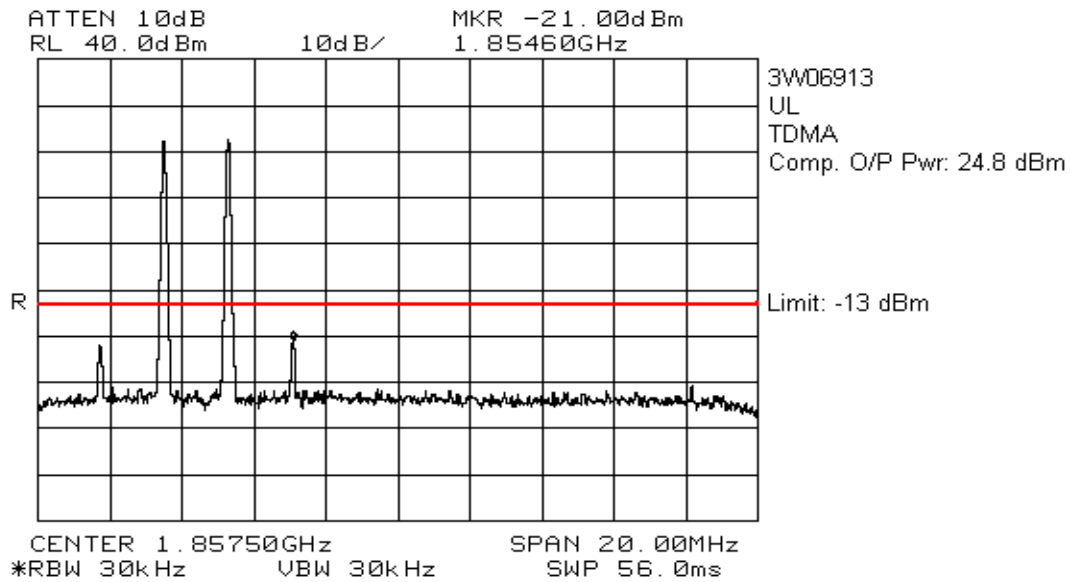


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

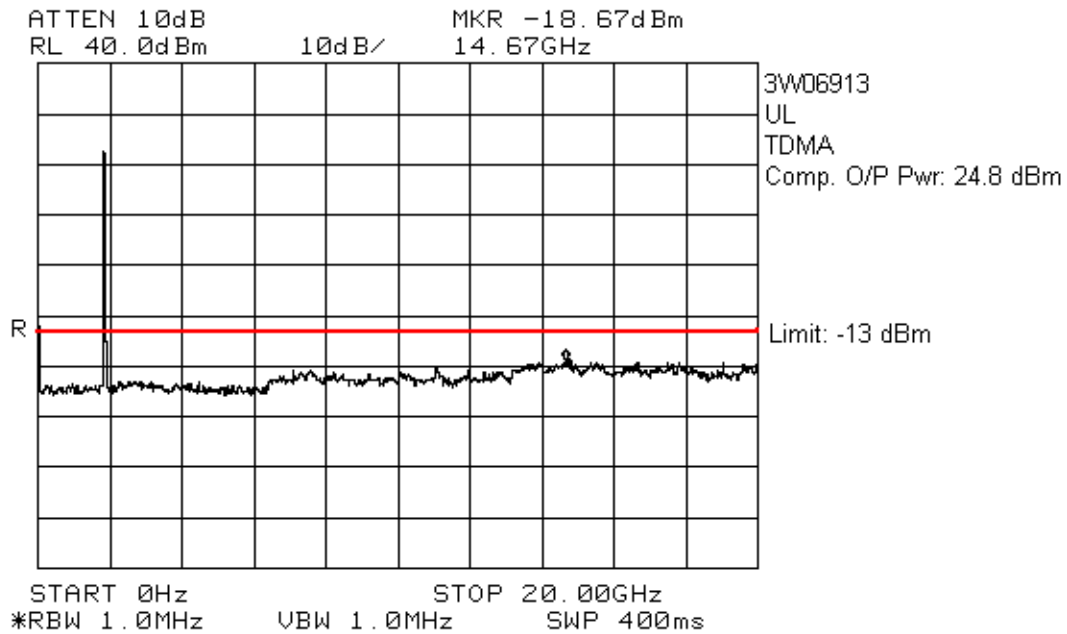


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink TDMA

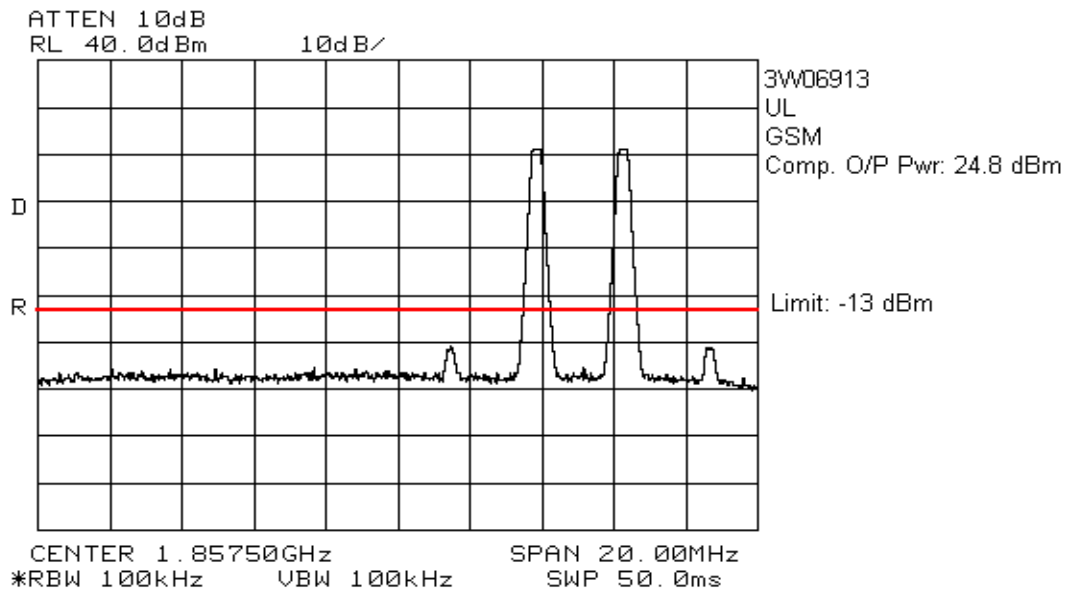
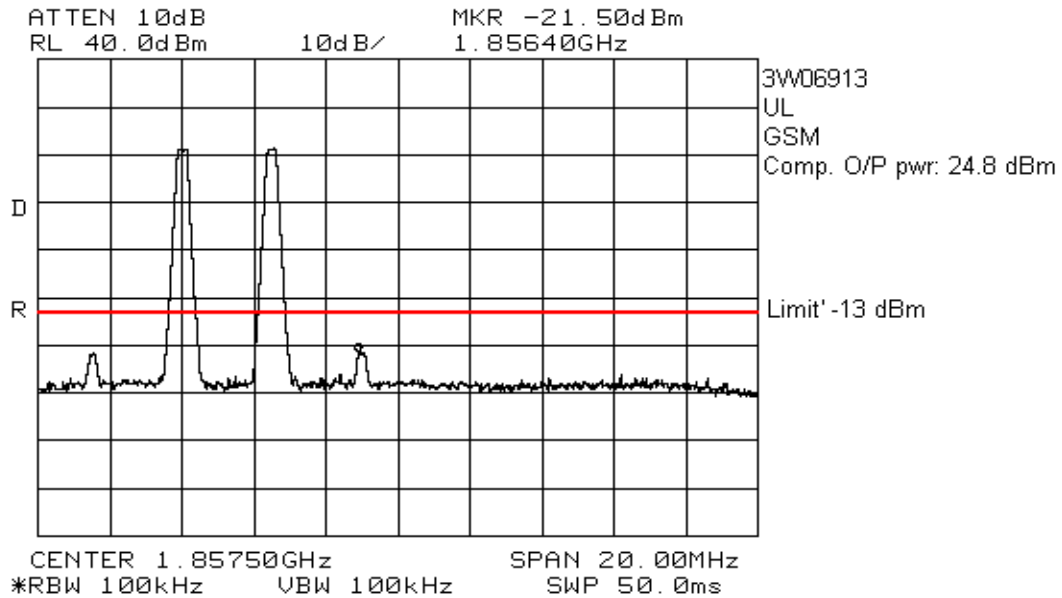


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

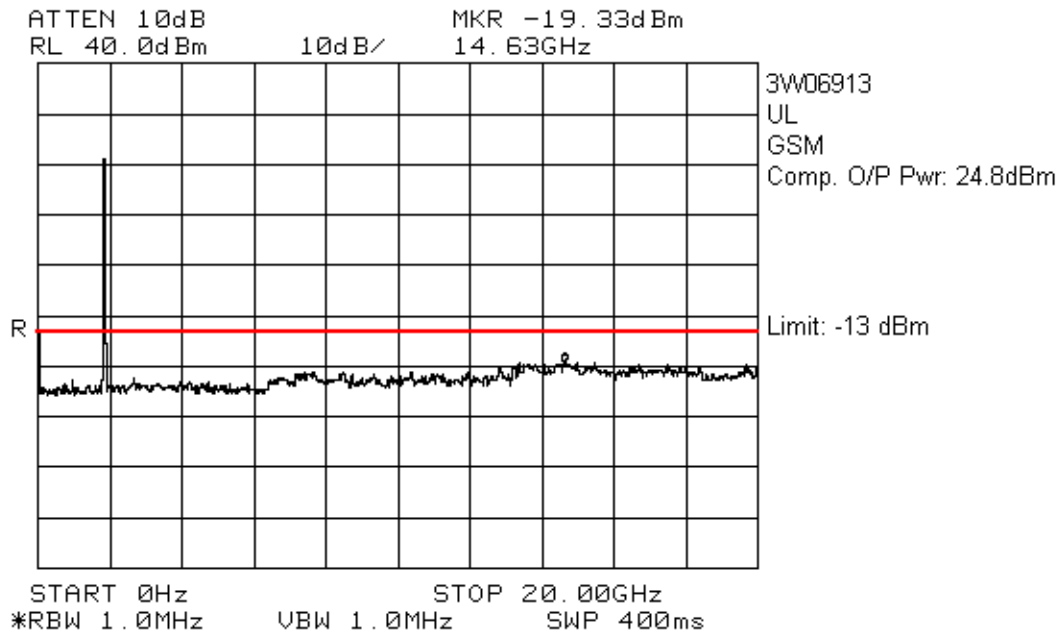


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink GSM

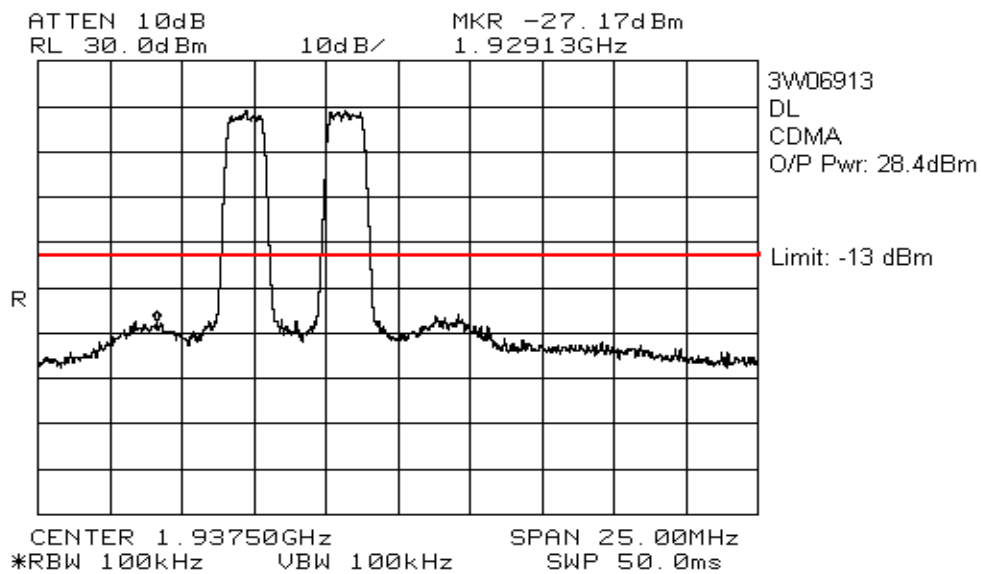
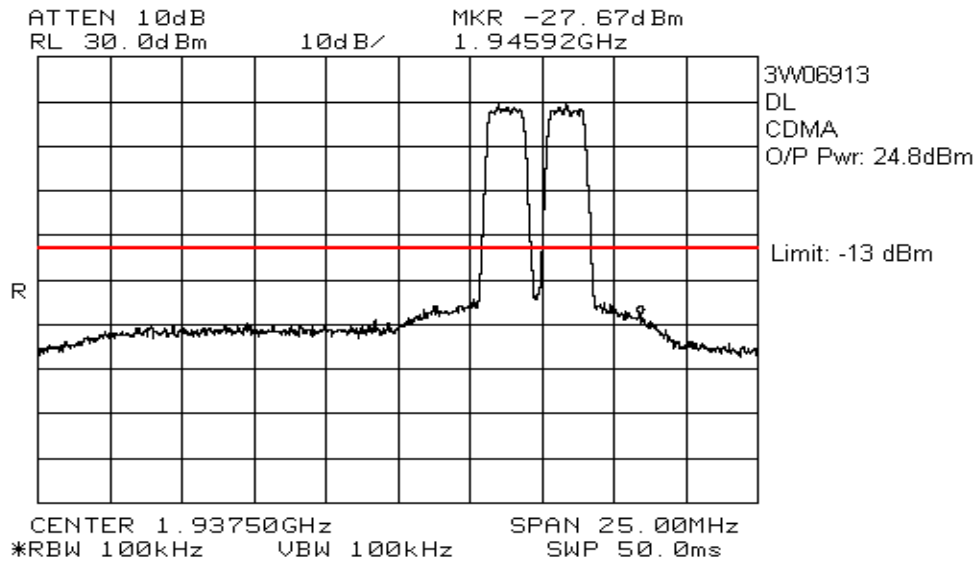


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

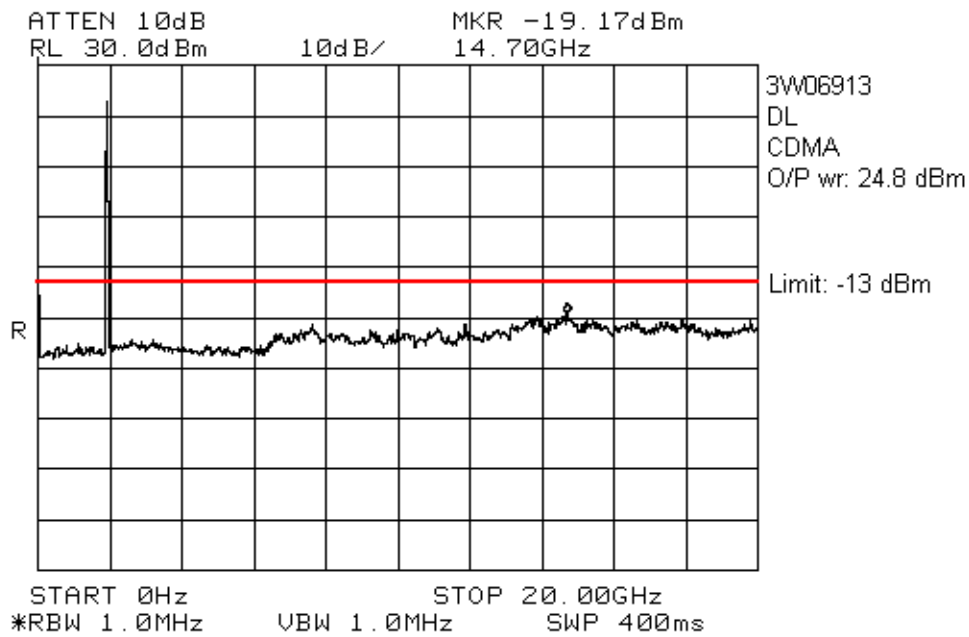


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink CDMA

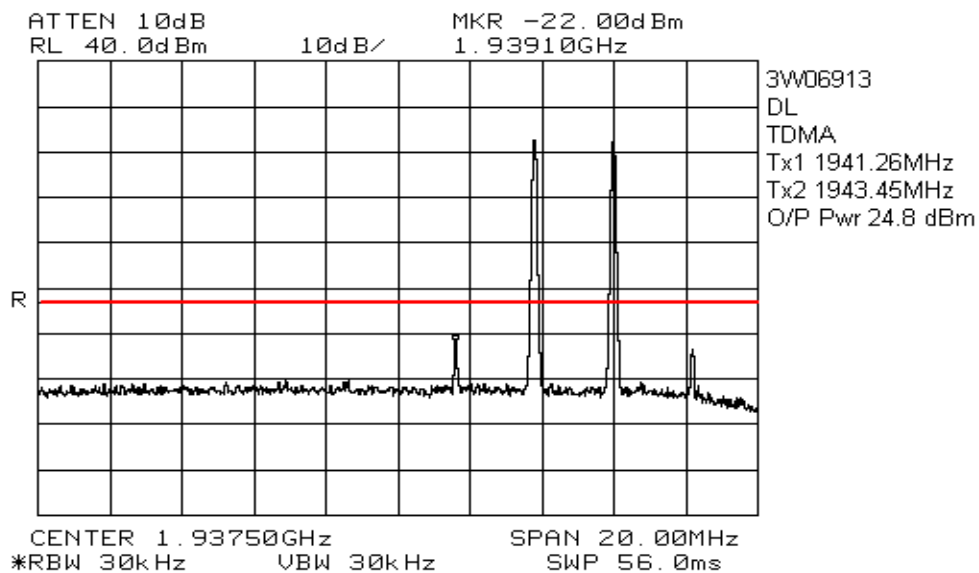
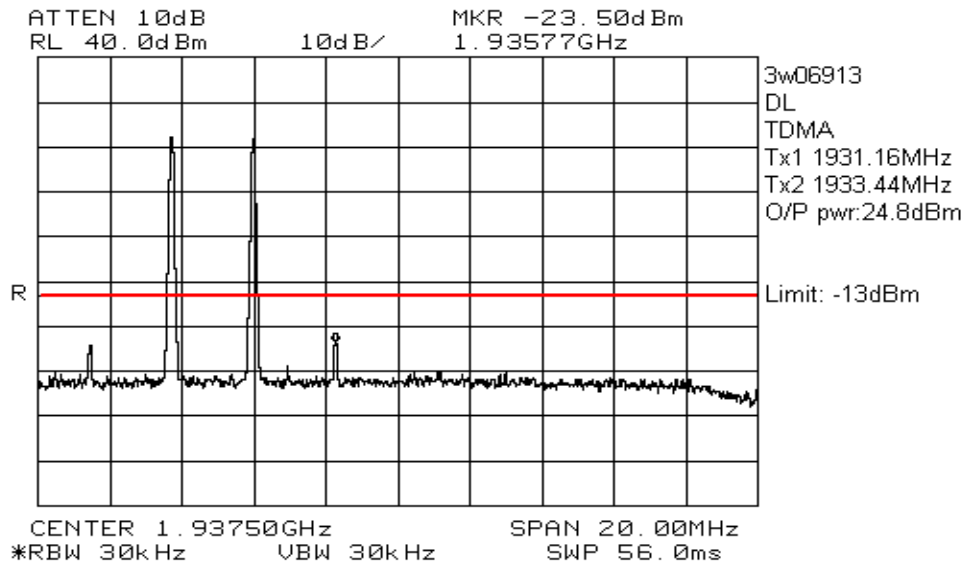


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

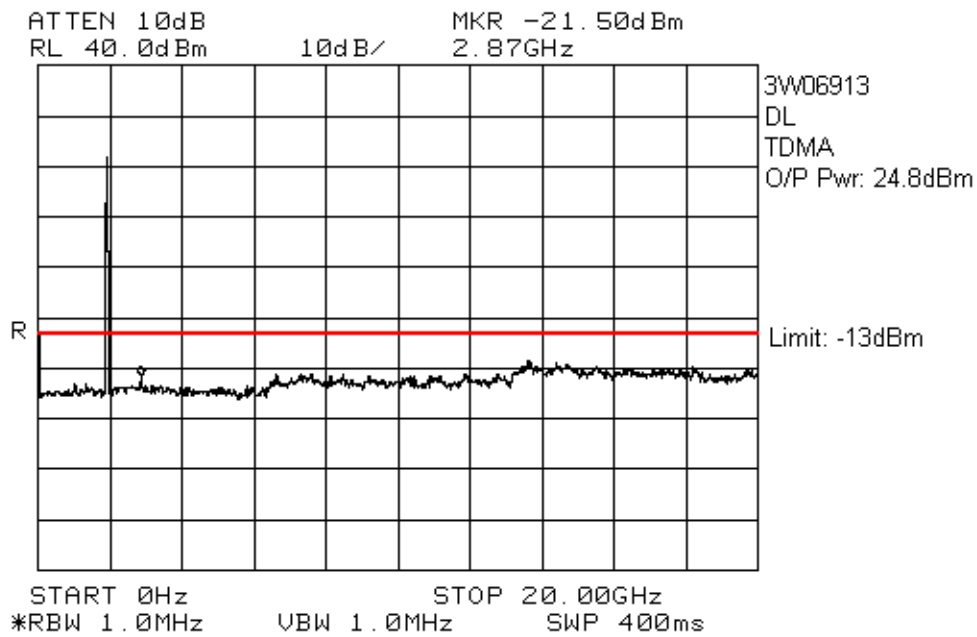


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink TDMA

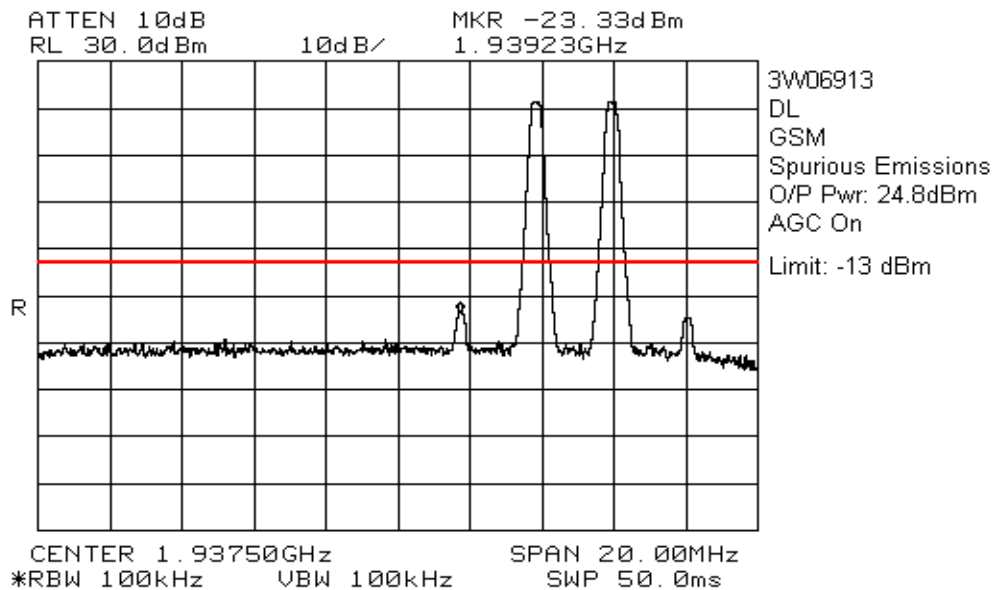
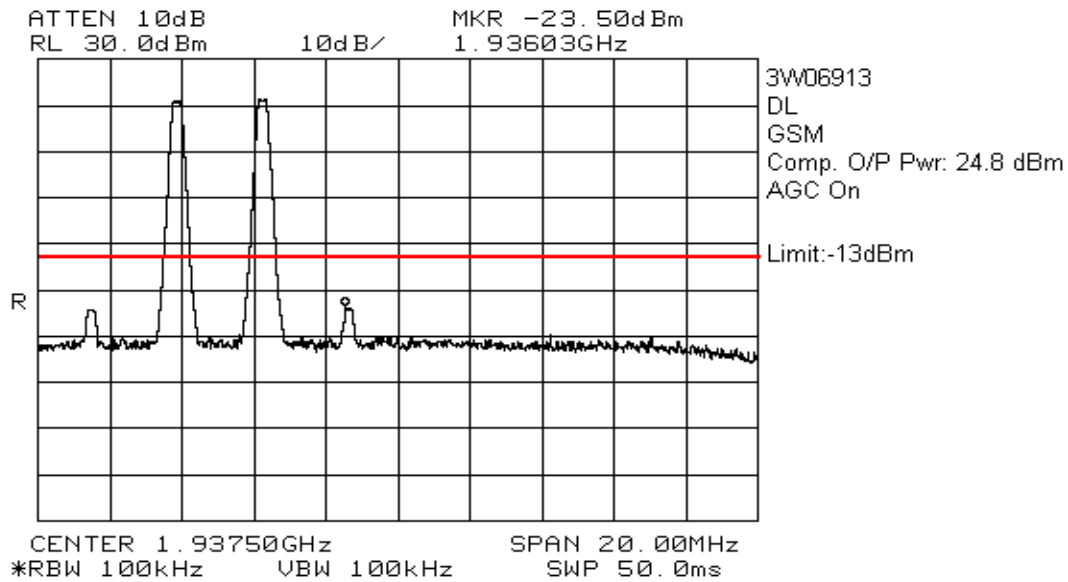


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

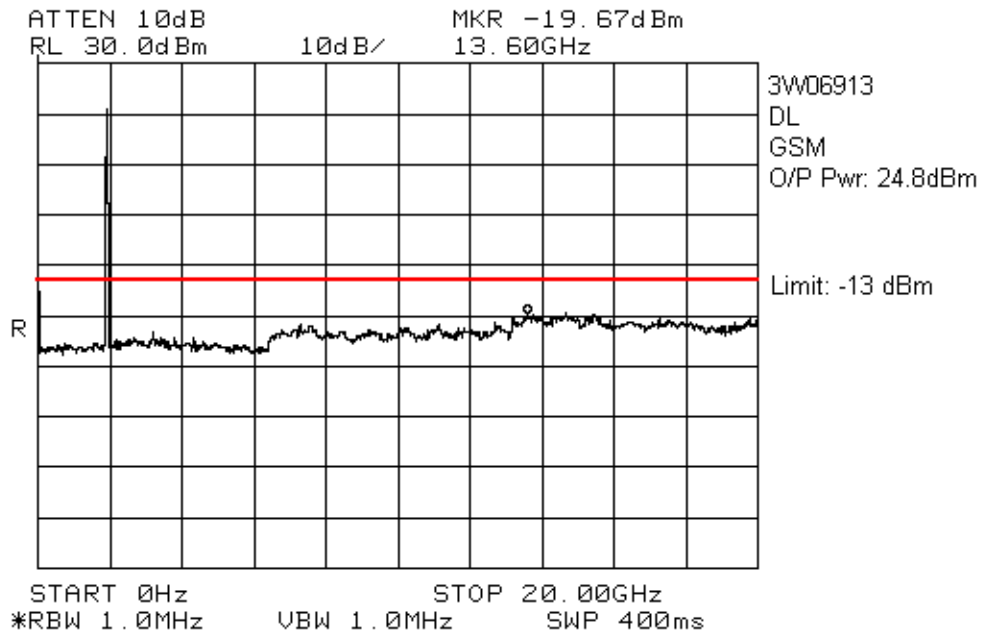


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink GSM



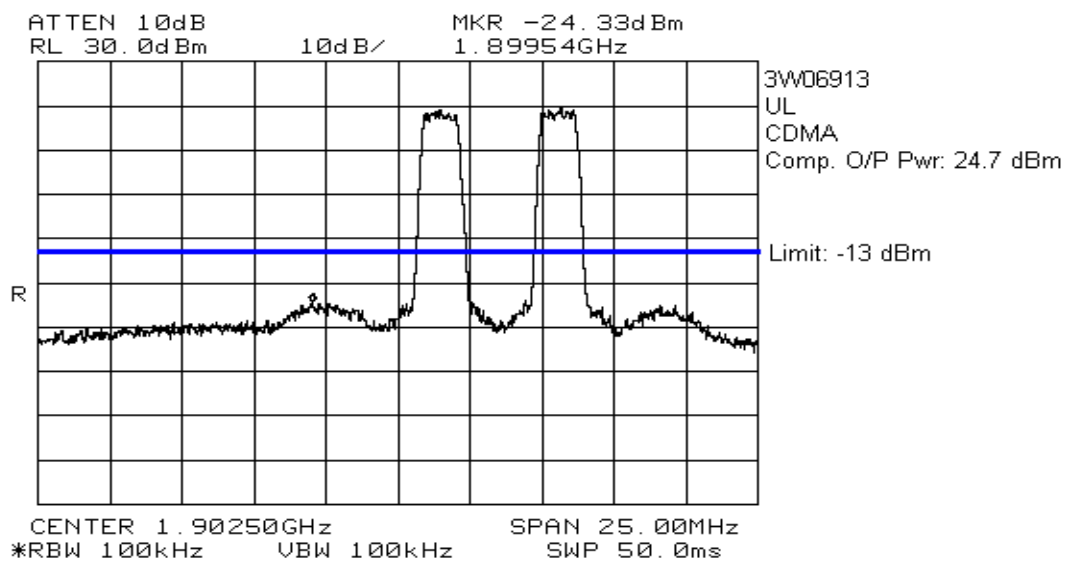
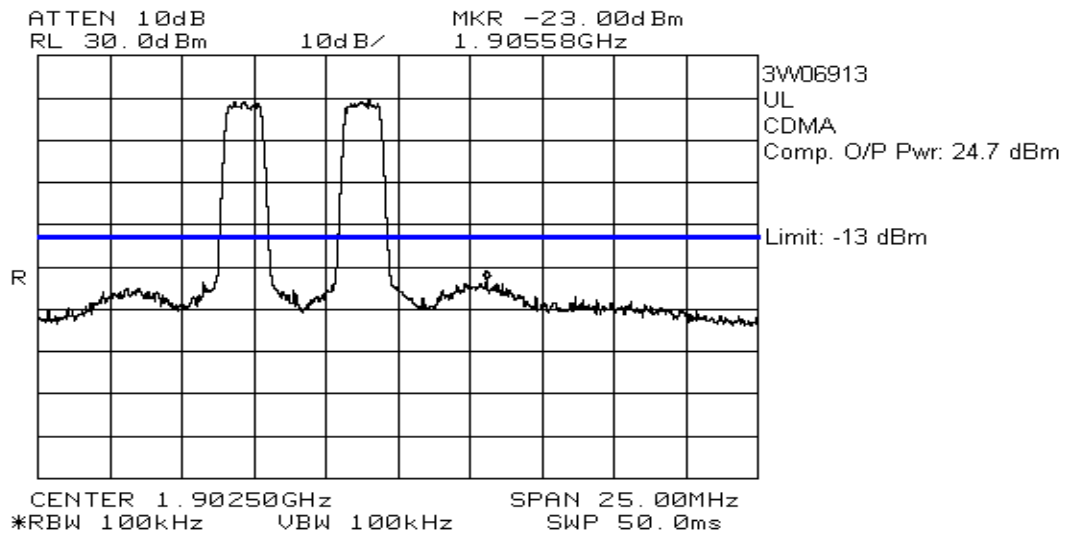
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters



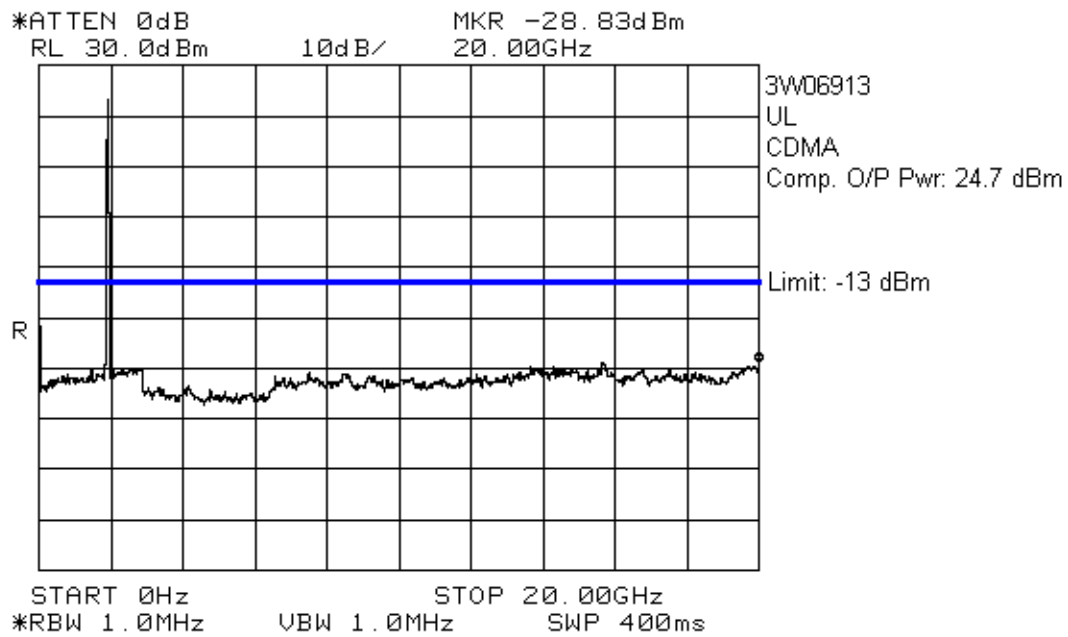
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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

Uplink CDMA

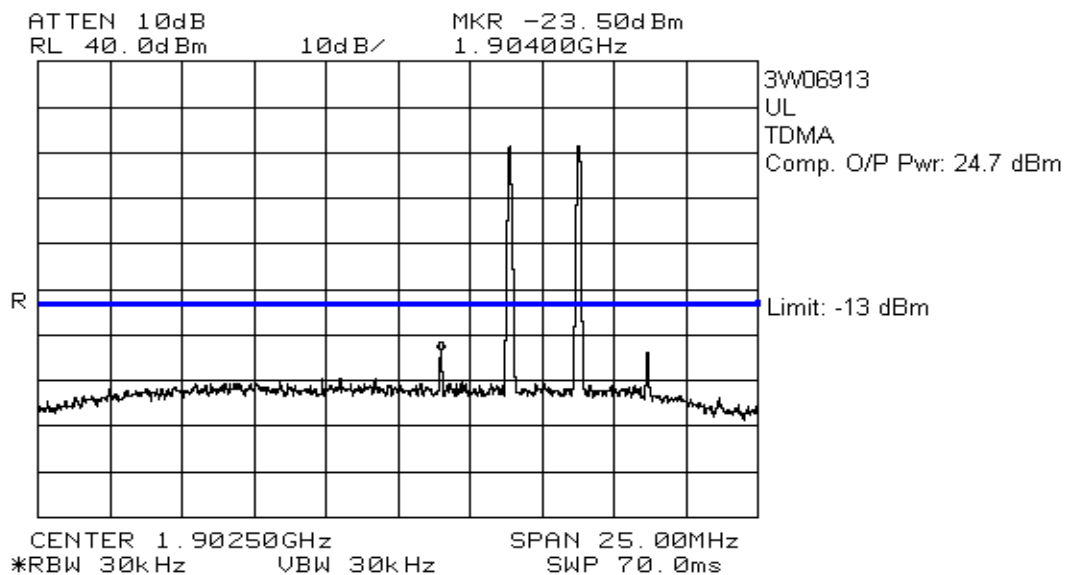
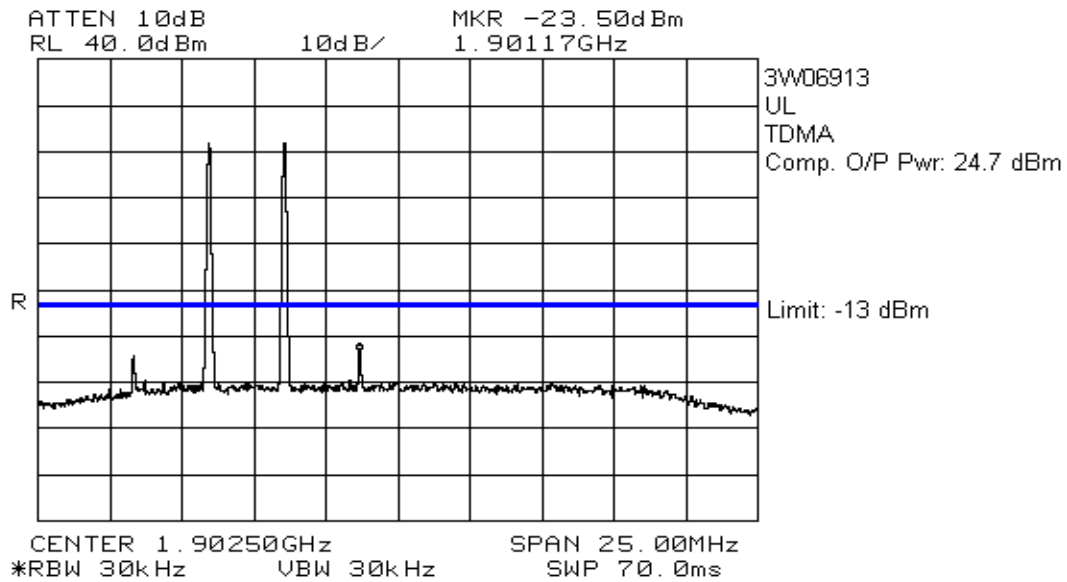


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

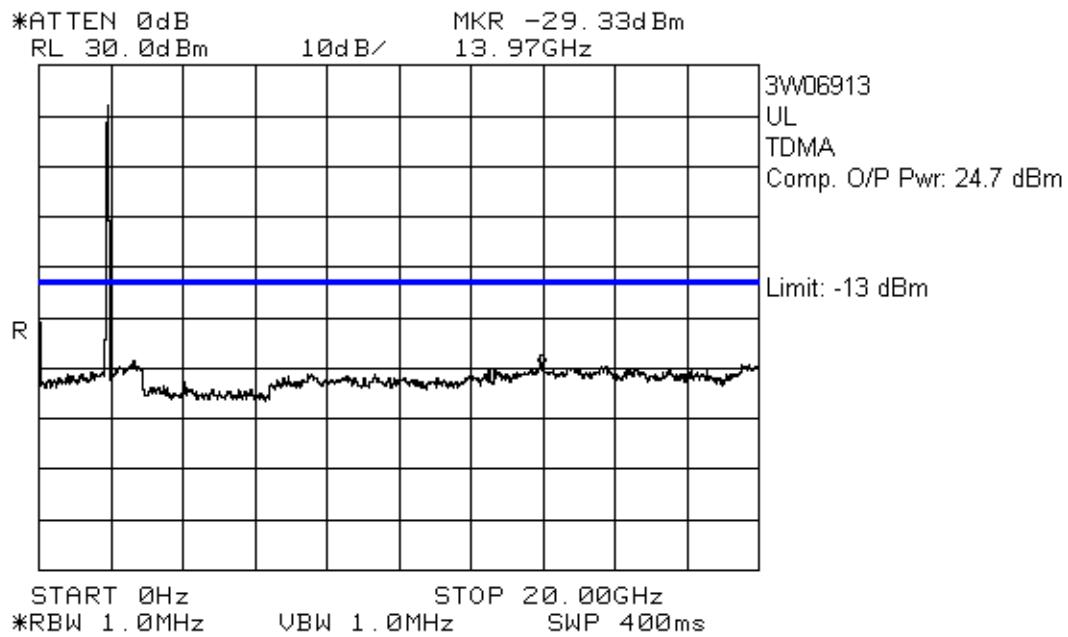


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink TDMA

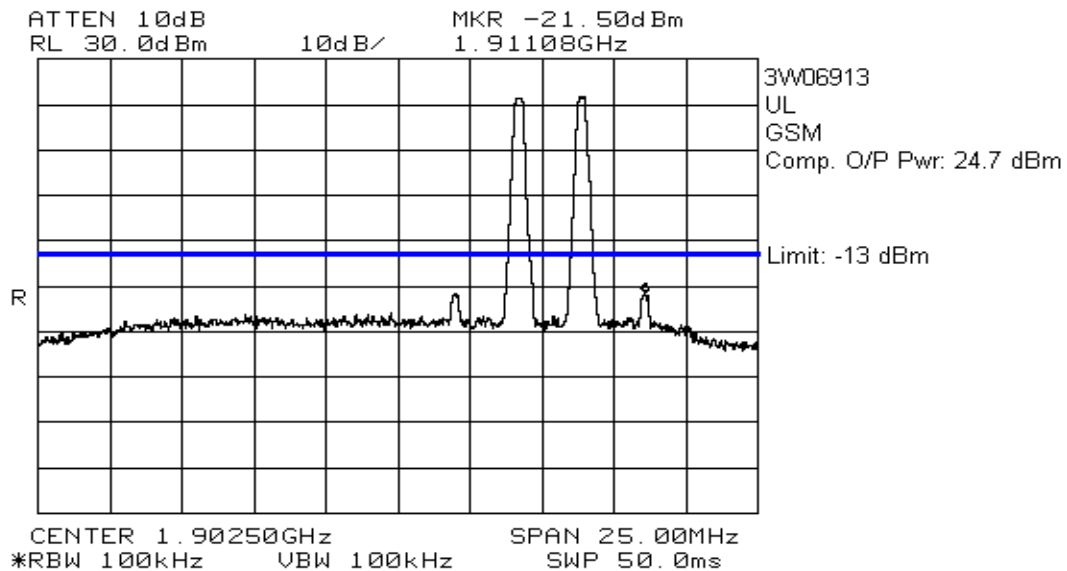
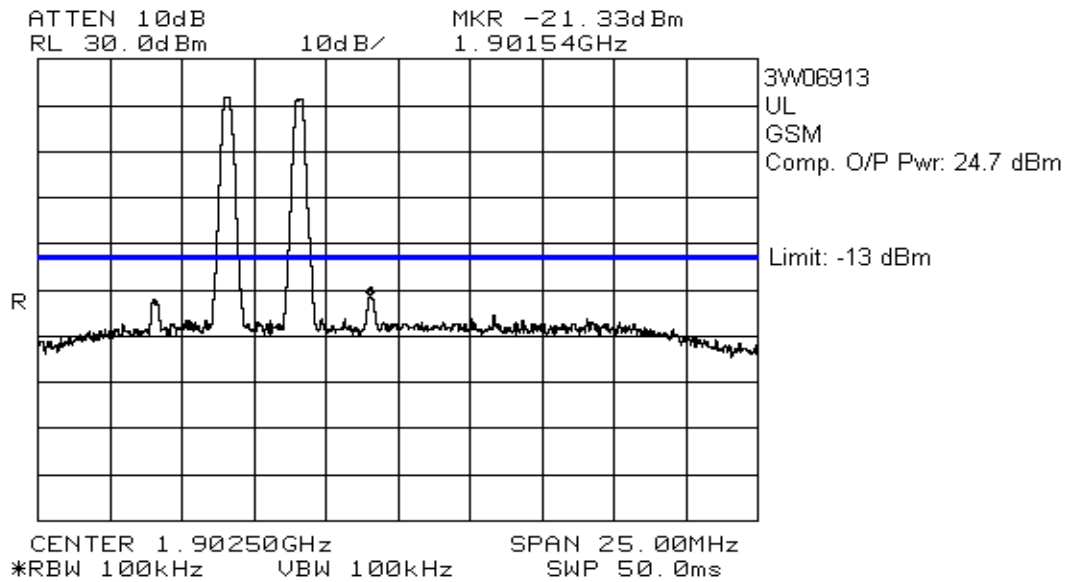


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

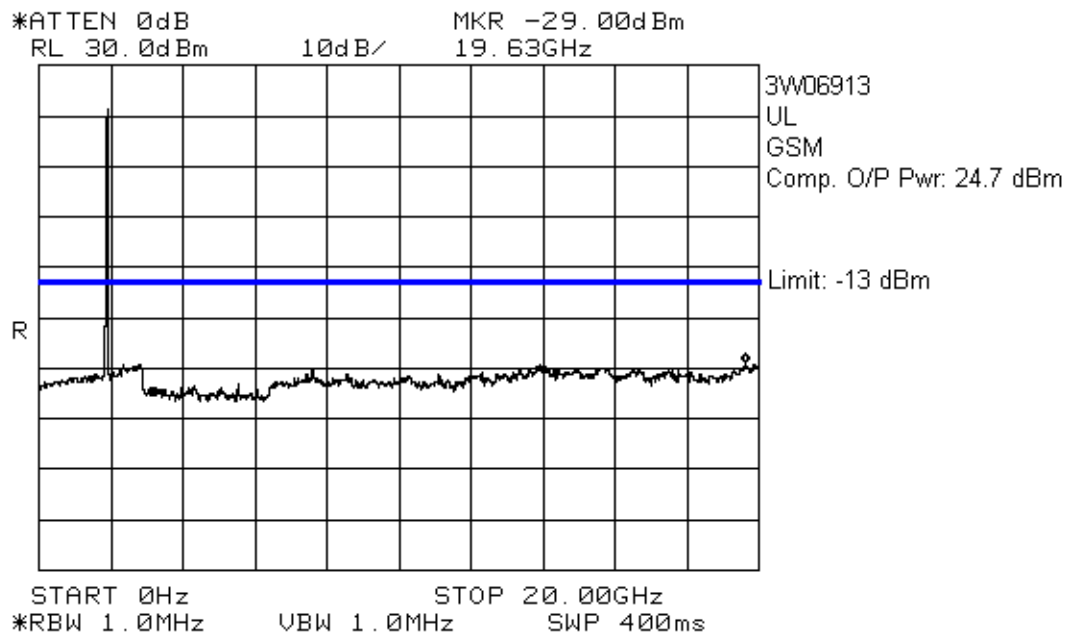


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Uplink GSM

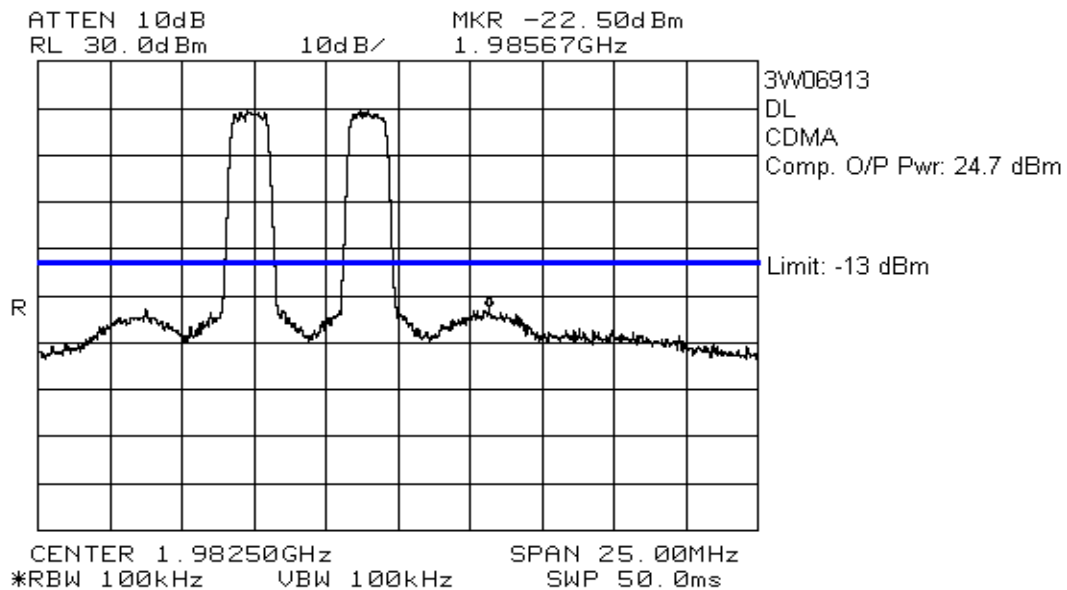
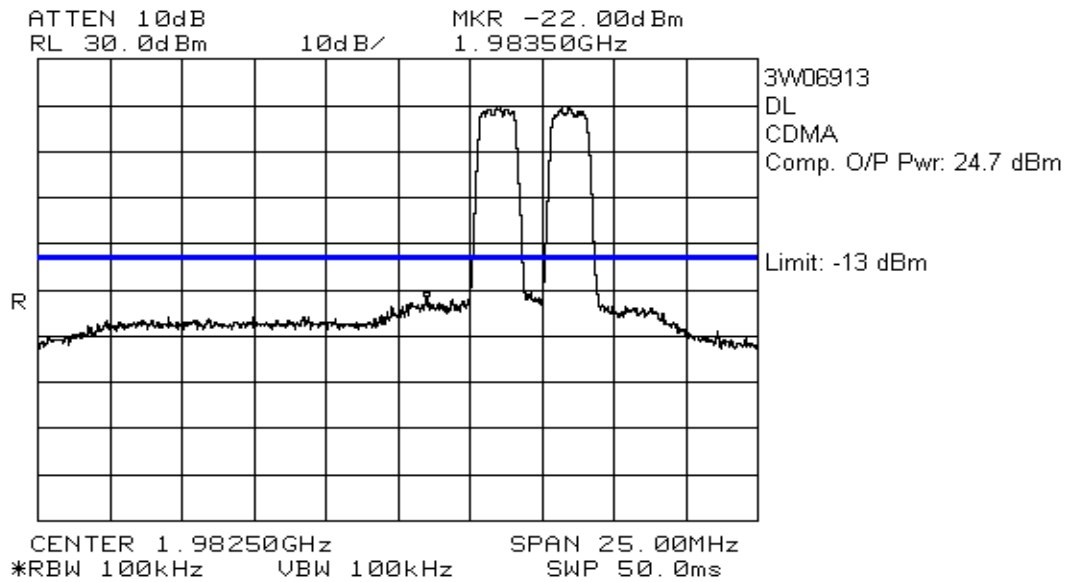


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

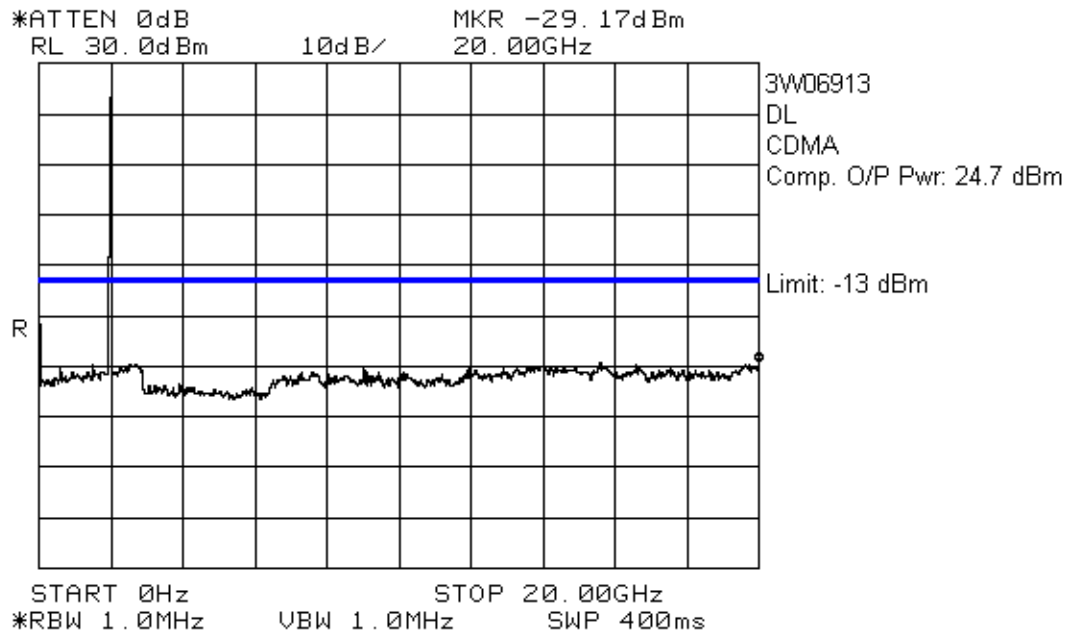


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink CDMA

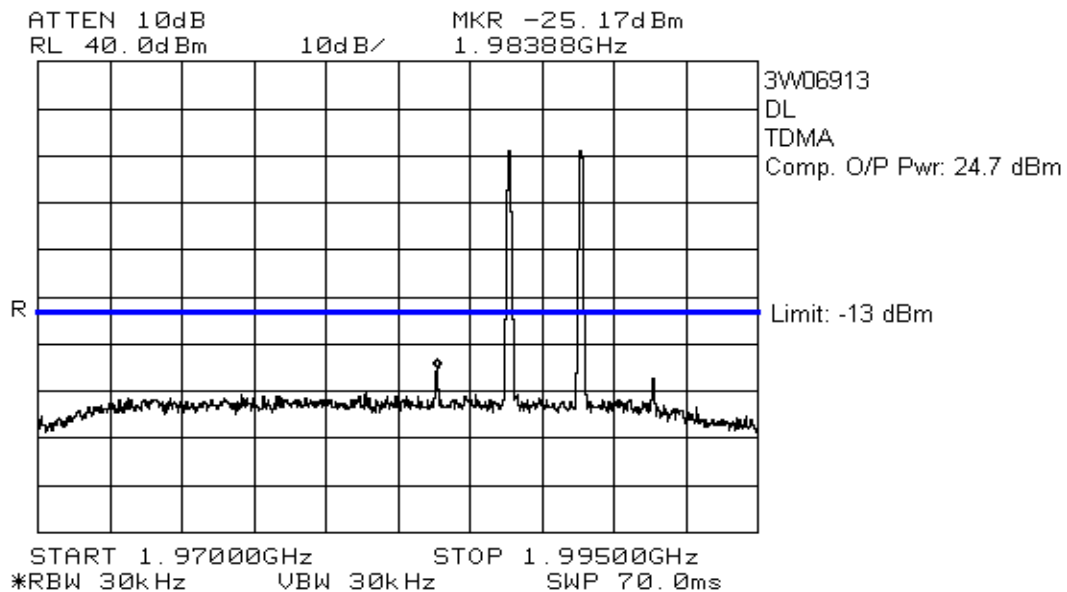
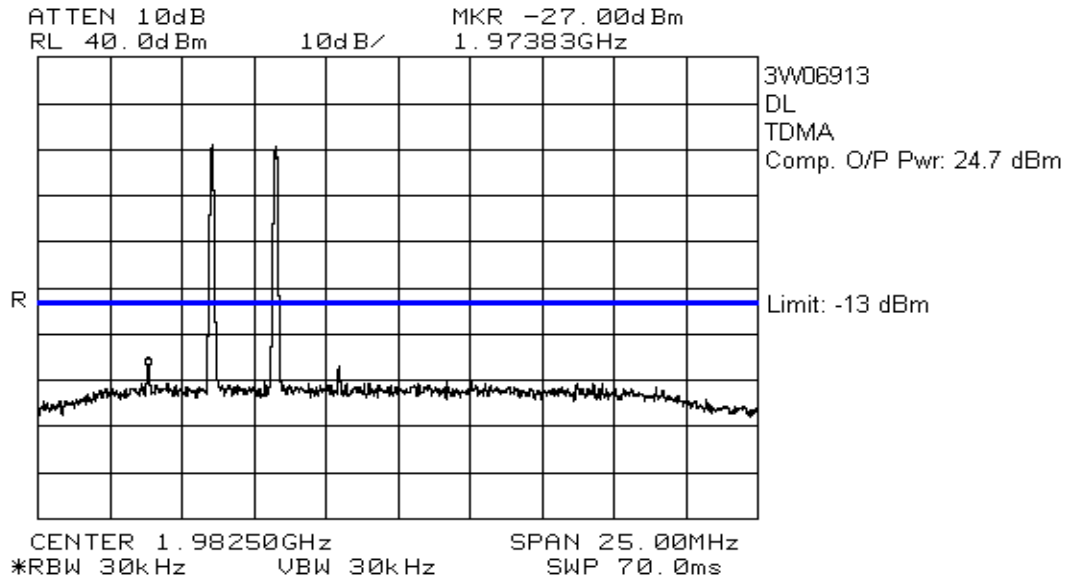


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

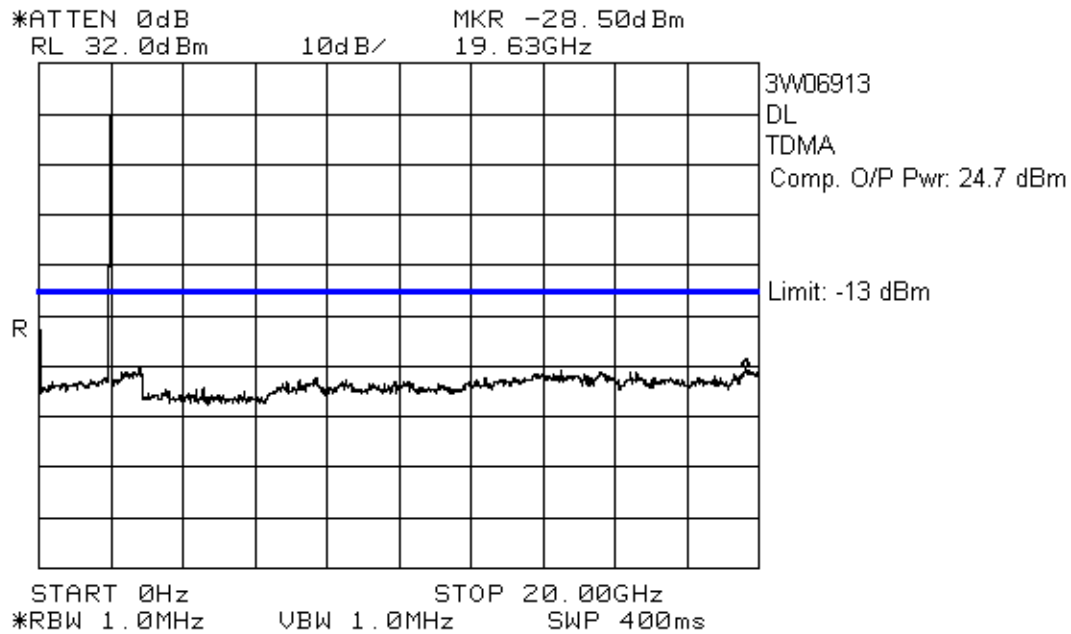


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink TDMA

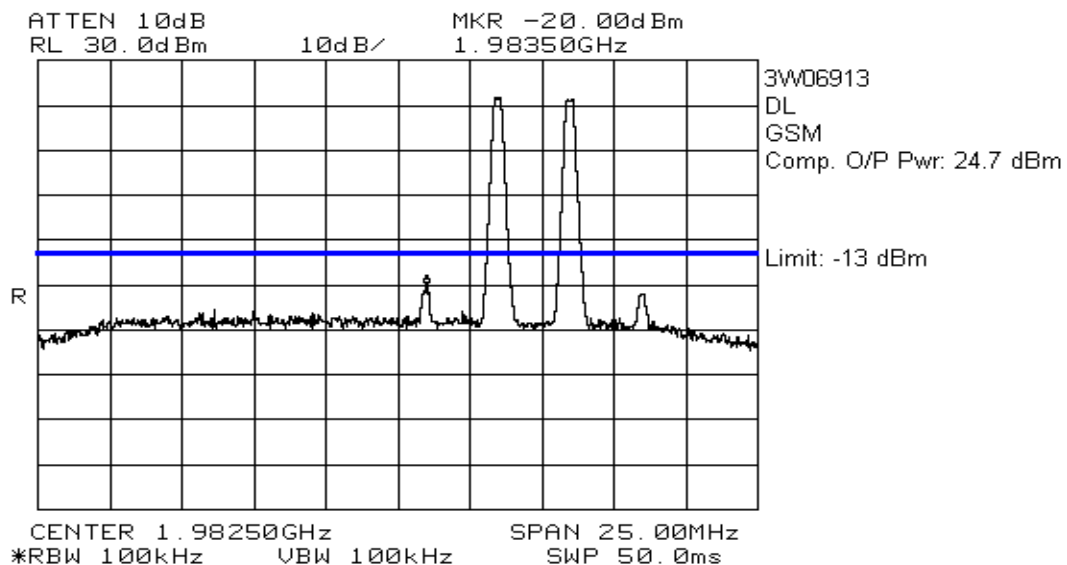
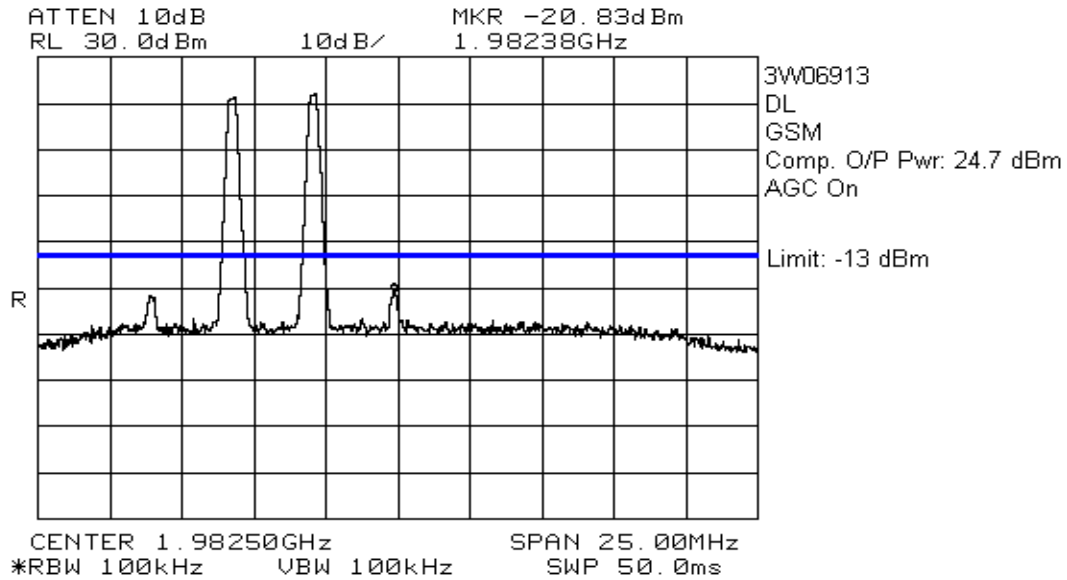


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

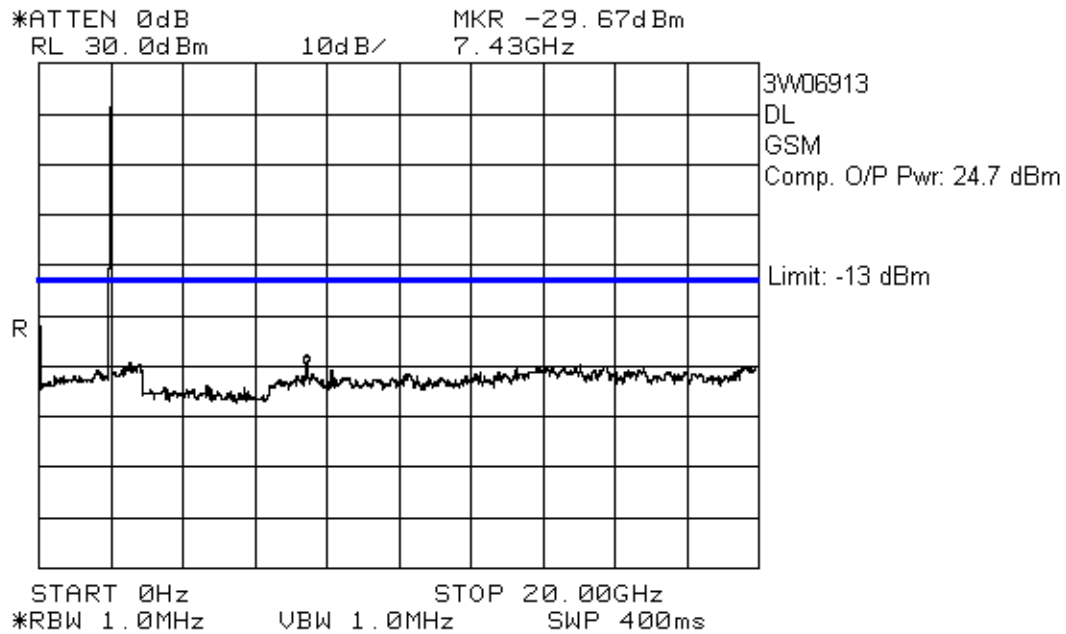


EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Downlink GSM



EQUIPMENT: BDA-PCS/A-1/1W-80-B And
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

Section 6. Field Strength of Spurious

Para. No.: 2.1053

Test Performed By: Kevin Carr	Date of Test: 13 Mar. 2003
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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

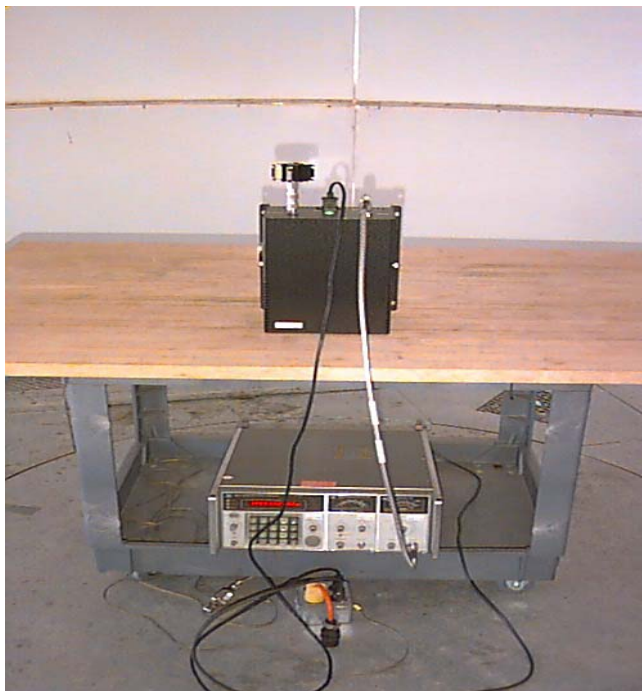
BDA-PCS/A-1/1W-80-B

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

Range Set up: Photo



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

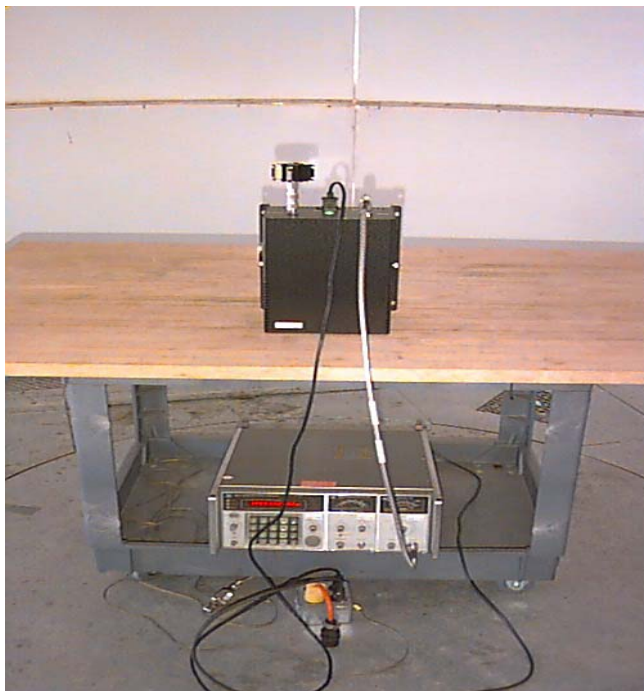
BDA-PCS/C-1/1W-80-B

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

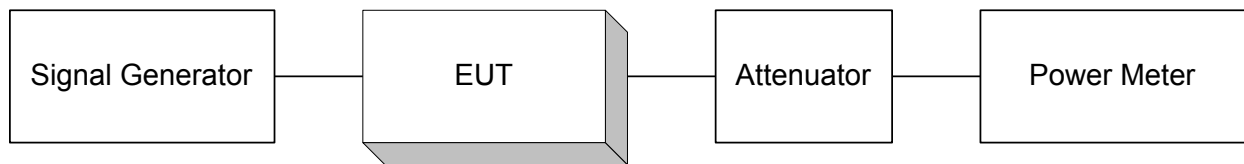
Range Set up: Photo



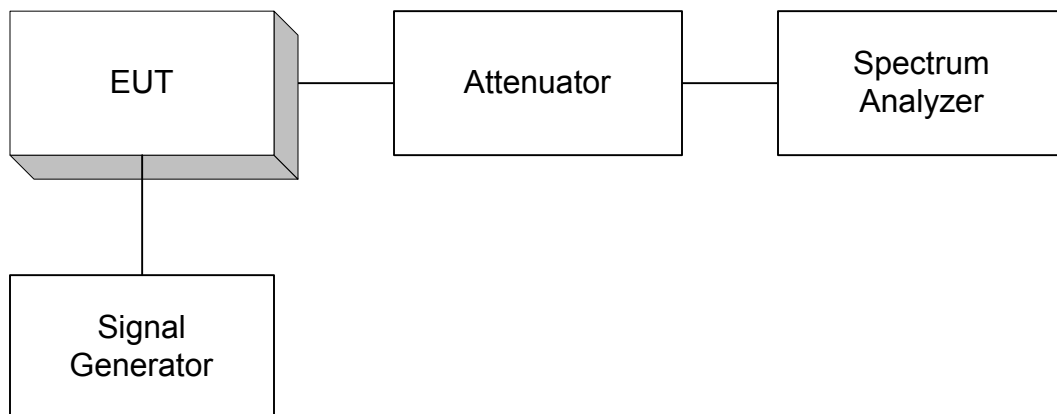
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

Section 7. Block Diagrams

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

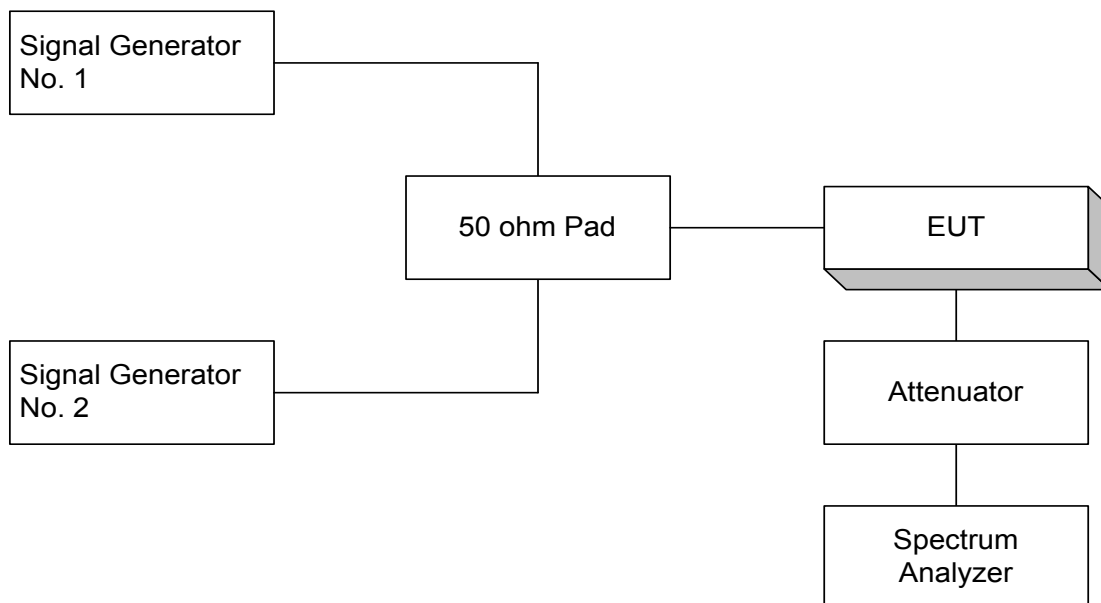
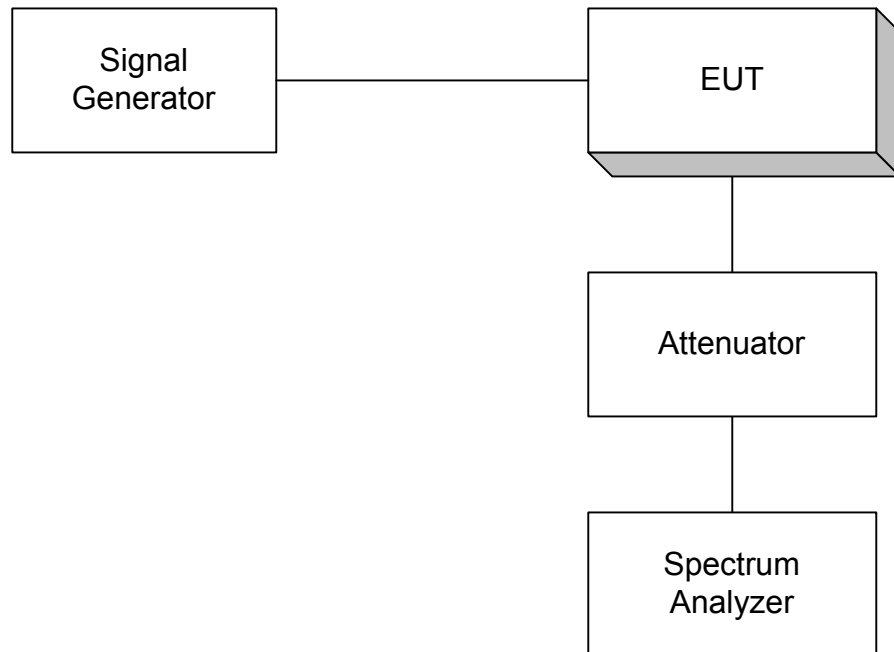


Para. No. 2.1049 - Occupied Bandwidth



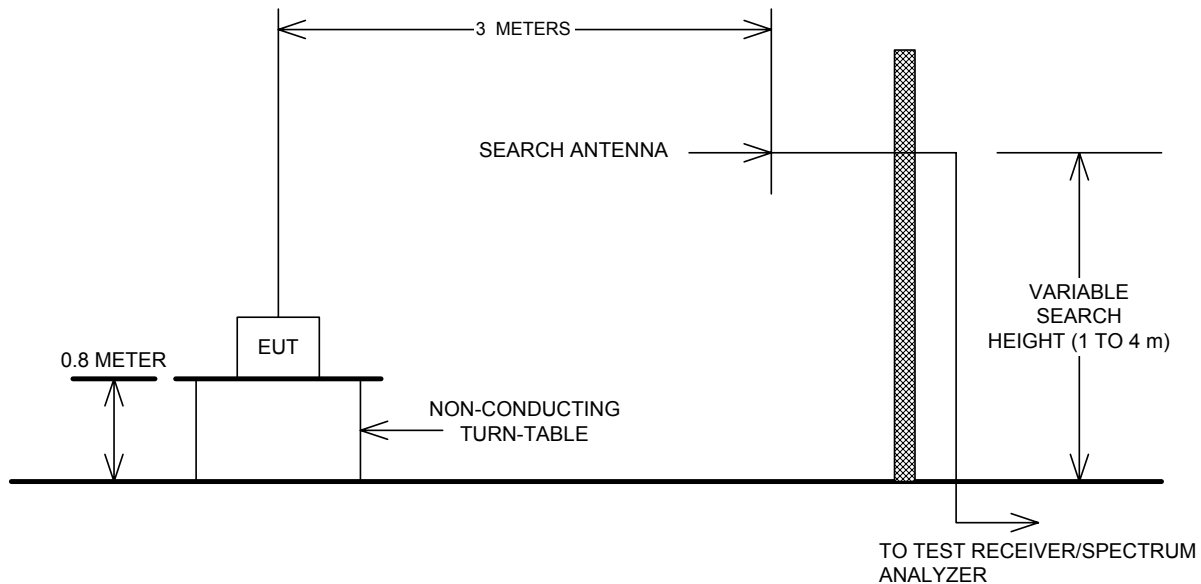
EQUIPMENT: BDA-PCS/A-1/1W-80-B And
BDA-PCS/C-1/1W-80-B, In-Building Repeaters

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

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						