KTL Test Report:	9R01401
Applicant:	Allen Telecom Group 140 Vista Centre Drive Forest, Virginia 24551 USA
Equipment Under Test: (E.U.T.)	MR701B Power
FCC ID:	BCR-RPT-MR701
In Accordance With:	**FCC Part 24, Subpart E** Broadband PCS Repeaters
Tested By:	KTL Ottawa Inc. 3325 River Road, R.R. 5 Ottawa, Ontario K1V 1H2
Authorized By:	
	R. Grant, Senior RF Specialist
Date:	
Total Number of Pages:	235

Table of Contents

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Section 1. Summary of Test Results

Manufacturer: Allen Telecom Group

Model No.: MR701B

Serial No.: 24

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.

☒ New Submission ☒ Production Unit

☐ Class II Permissive Change ☐ Pre-Production Unit

A	M	P

Equipment Code

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.
See " Summary of Test Data".

NVLAP LAB CODE: 100351-0

TESTED BY: _____ DATE: _____
Kevin Carr, Technologist

Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	MEAS.	RESULT
RF Power Output	24.232	100W	Plot	Complies
Occupied Bandwidth (CDMA)	24.238	Input/Output	Plot	Complies
Occupied Bandwidth (GSM)	24.238	Input/Output	Plot	Complies
Occupied Bandwidth (NADC)	24.238	Input/Output	Plot	Complies
Spurious Emissions at Antenna Terminals	24.238(a)	-13 dBm	Plot	Complies
Field Strength of Spurious Emissions	24.238(a)	-13 dBm E.I.R.P.	Chart	Complies
Frequency Stability	24.235		N/A	N/A

Footnotes For N/A's: F1-F1 Transmission TxPE

Test Conditions:

Indoor Temperature: 24 °C
Humidity: 40 %

Outdoor Temperature: 25 °C
Humidity: 40 %

Section 2. General Equipment Specification

Supply Voltage Input:		120 Vac, 60 Hz
Frequency Range:	**Downlink:**	1930 to 1964.95 MHz or 1965.0 to 1990 MHz
Frequency Range:	**Uplink:**	1850 to 1884.95 MHz or 1885.0 to 1910 MHz

Type of Modulation and Designator:

CDMA (F9W)	GSM (GXW)	TDMA (DXW)
☒	☒	☒

Output Impedance: 50 ohm

Gain: 90 dB Nominal

RF Output (Rated): See Page 10

Frequency Translation:

F1-F1	F1-F2	N/A
☒	☐	☐

Band Selection:

Software	Duplexer Change	Fullband Coverage
☒	☒	☐

Description of Modifications For Class II Permissive Change

Modifications Made During Testing

NOT APPLICABLE

Theory of Operation

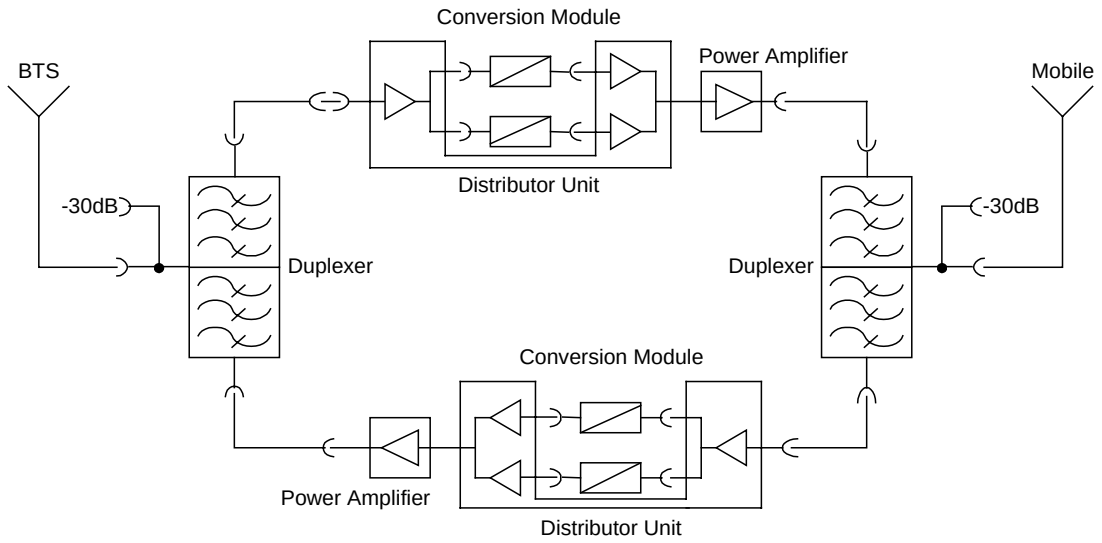
MIKOM's MR701B power is available as a band selective repeater for GSM, CDMA and TDMA and as a channel selective repeater for CDMA and TDMA, a GSM channel selective version is available (MMR741).

This repeater bi-directionally amplifies signals between multiple mobiles and a single base station in the PCS1900 frequency band. It is employed where poor topological conditions cause weak field strengths. It can provide highly selective amplification of band segments or channels in the PCS1900 band.

MR701B power modules can be combined with other repeater modules in order to create a multi-band repeater system. Modules operating in GMS1800, GSM900, AMPS800 or iDEN bands are available. When different modules are combined, a common antenna and control interface are available.

MR701B power can be set-up locally or remotely. A PCMCIA slot for modem operation is an available option. The repeater has a large number of functions that can be monitored and changed by the operators via a terminal emulation program or the MIKOM OMC software platform. An understandable communication language is available to aid the operator query status reports from the repeater or to change settings.

System Diagram



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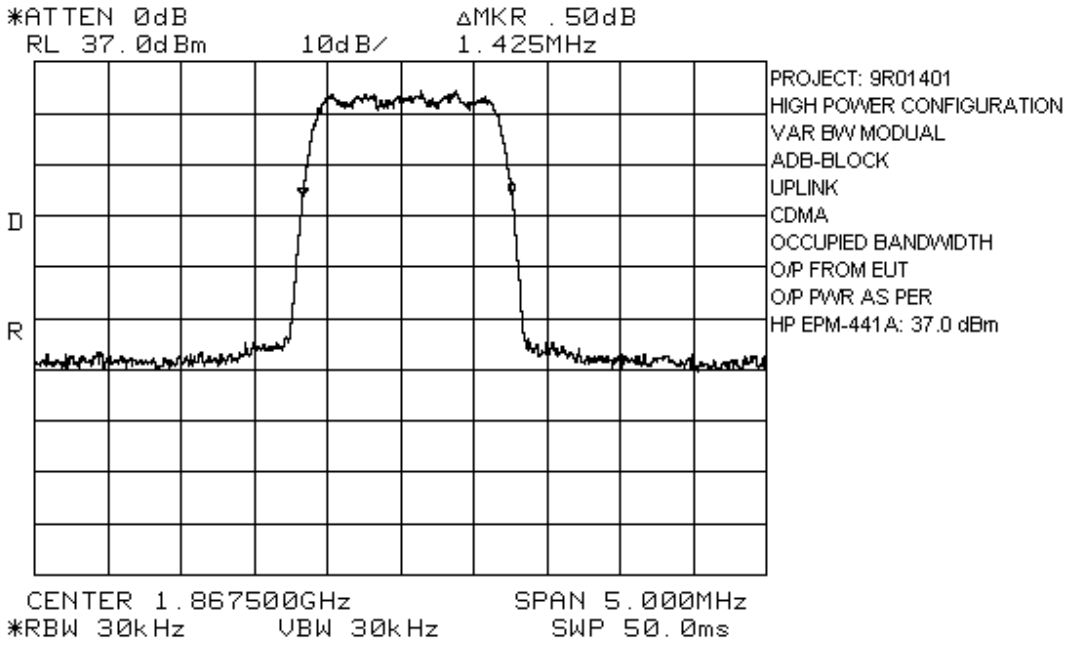
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RL 37.0dBm
10dB/
ΔMKR .50dB
1.425MHz
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R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
UPLINK
CDMA
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.867500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

Section 3. RF Power Output

NAME OF TEST: RF Power Output	PARA. NO.: 2.985
TESTED BY: Kevin Carr	DATE: August 16, 1999

Test Results: Complies.

Measurement Data:

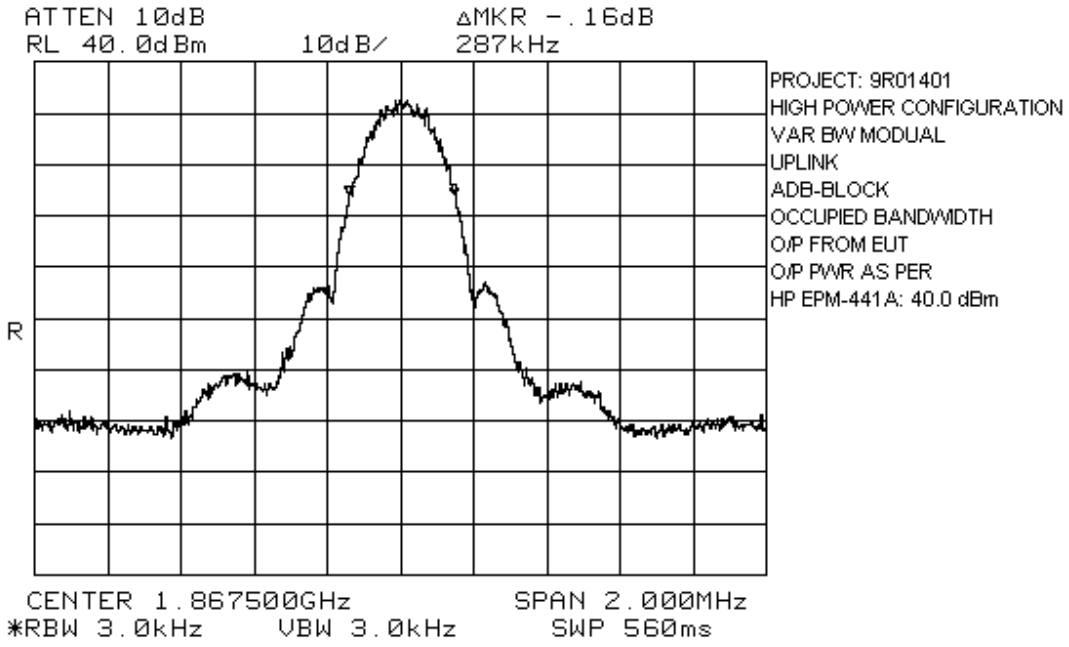
ADB-Block:

	Modulation Type	Per Channel Output Power (dBm)	Composite Output Power (dBm)	Single Channel Power (dBm)
Uplink	CDMA	31	34	37.0
Downlink	CDMA	31	34	37.0
Uplink	GSM	37	40	40.0
Downlink	GSM	37	40	40.0
Uplink	TDMA	34	34	40.0
Downlink	TDMA	34	34	40.0

EFC-Block:

	Modulation Type	Per Channel Output Power (dBm)	Composite Output Power (dBm)	Single Channel Power (dBm)
Uplink	CDMA	30.2	33.2	37.0
Downlink	CDMA	31.7	34.7	37.0
Uplink	GSM	37.0	40.0	40.0
Downlink	GSM	36.3	39.3	40.0
Uplink	TDMA	34.0	37.0	40.0
Downlink	TDMA	34.0	37.0	40.0

ADB - Block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10dB/
ΔMKR -.16dB
287kHz
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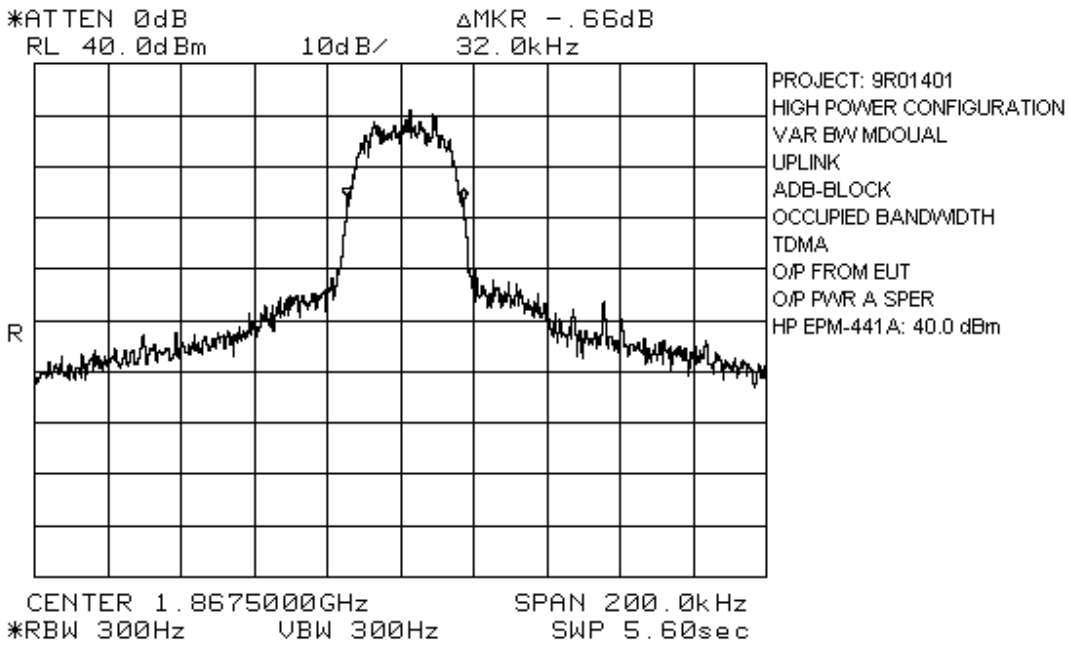
UPLINK
ADB-BLOCK
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
R
CENTER 1.867500GHz
SPAN 2.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 560ms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10dB/
ΔMKR -.66dB
32.0kHz
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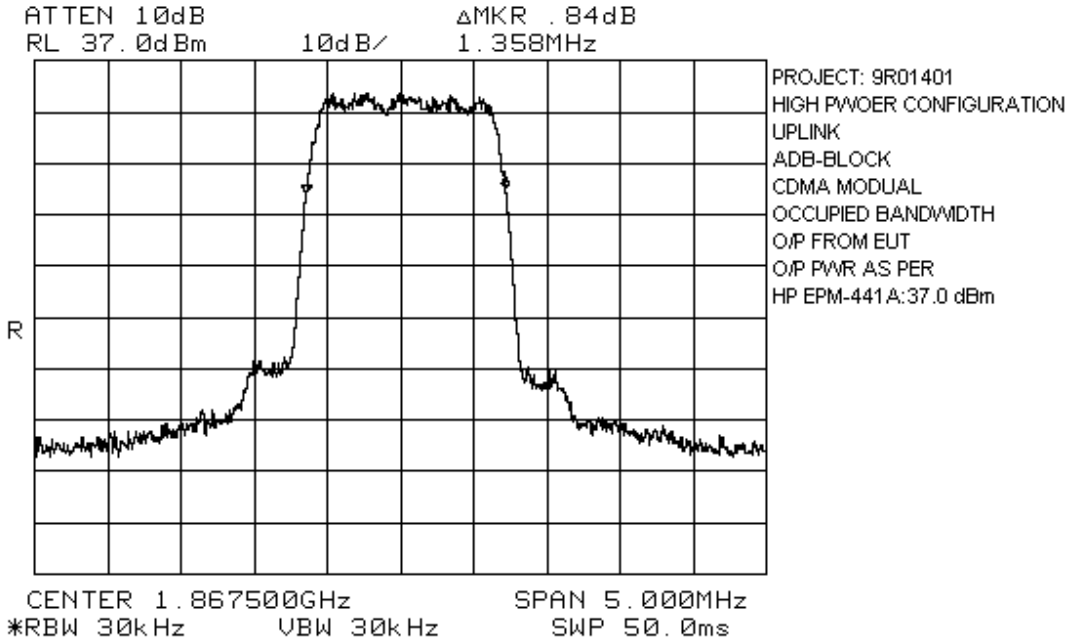
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MDOUAL
UPLINK
ADB-BLOCK
OCCUPIED BANDWIDTH
TDMA
O/P FROM EUT
O/P PWR A SPER
HP EPM-441A: 40.0 dBm
CENTER 1.8675000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec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10dB/
ΔMKR .84dB
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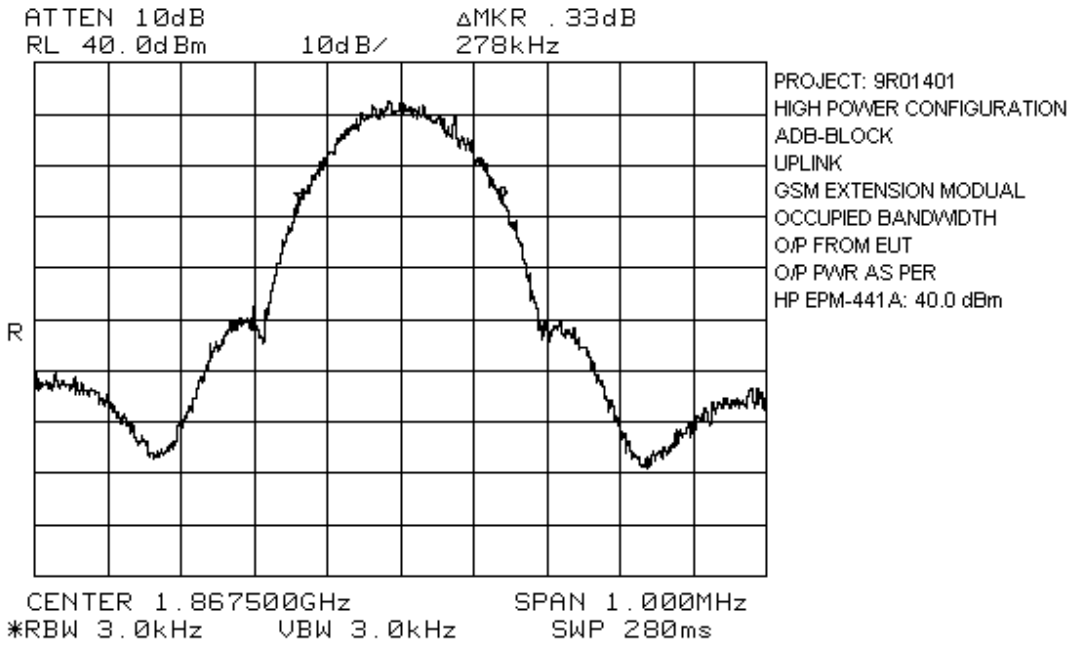
UPLINK
ADB-BLOCK
CDMA MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A:37.0 dBm
R
CENTER 1.867500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms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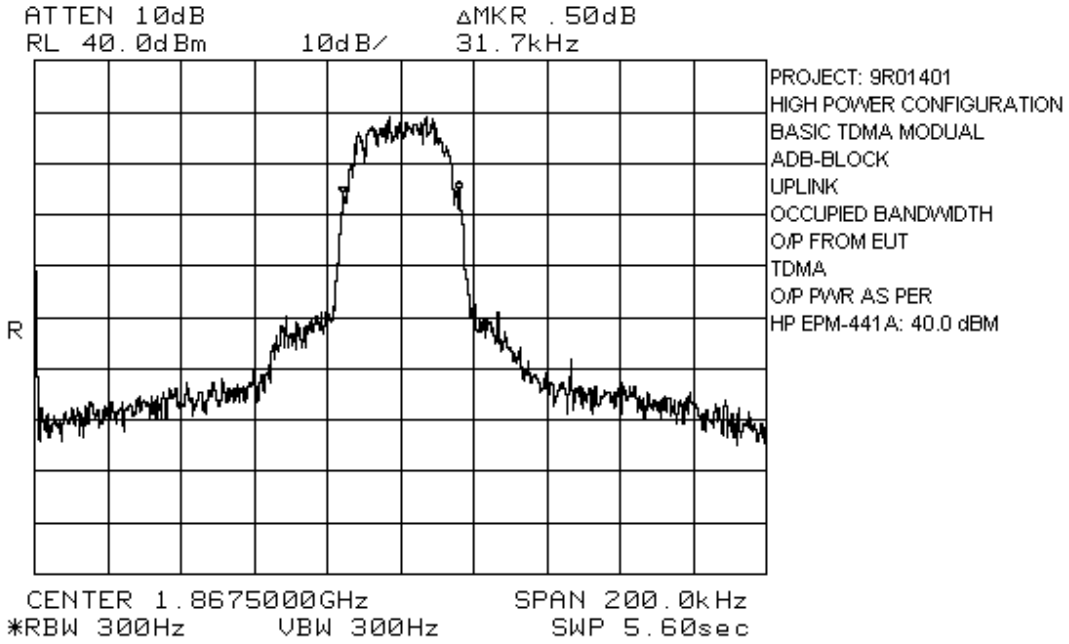
RL 40.0dBm
10dB/
ΔMKR .33dB
278kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
UPLINK
GSM EXTENSION MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.867500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms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10dB/
ΔMKR .50dB
31.7kHz
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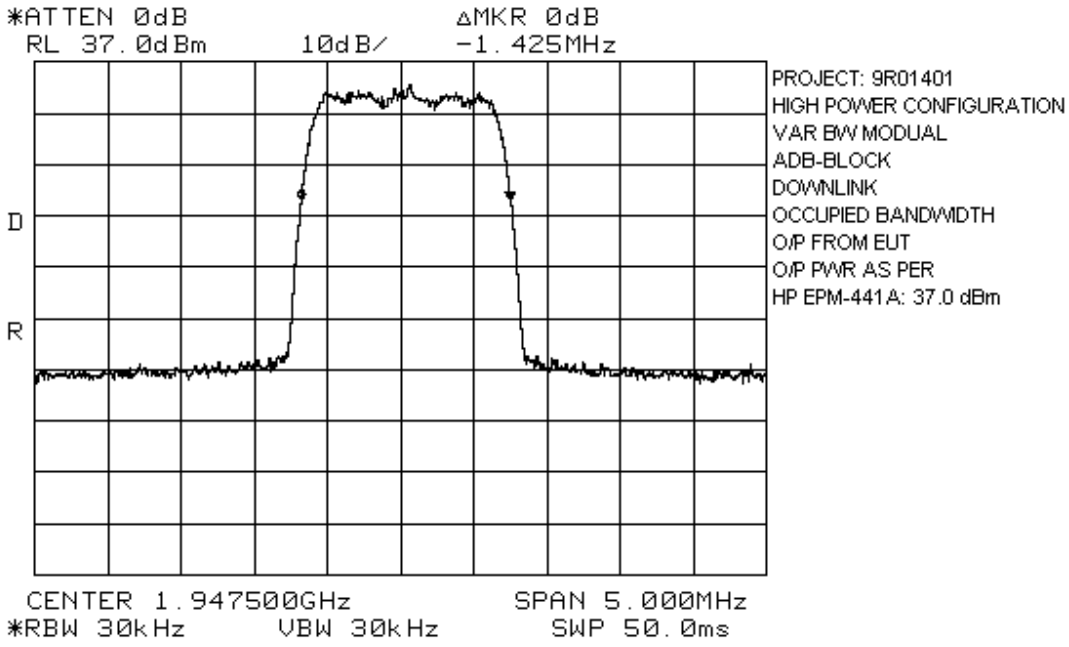
PROJECT: 9R01401
HIGH POWER CONFIGURATION
BASIC TDMA MODUAL
ADB-BLOCK
UPLINK
OCCUPIED BANDWIDTH
O/P FROM EUT
TDMA
O/P PWR AS PER
HP EPM-441A: 40.0 dBM
CENTER 1.8675000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec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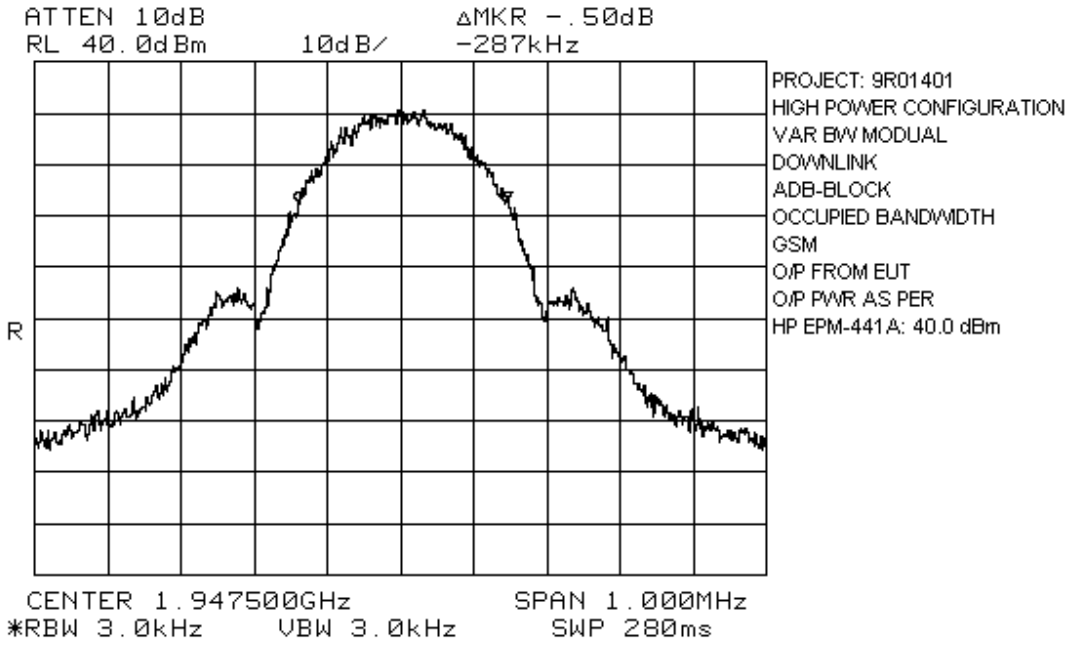
RL 37.0dBm
10dB/
ΔMKR 0dB
-1.425MHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
DOWNLINK
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.947500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms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10dB/
ΔMKR -.50dB
-287kHz
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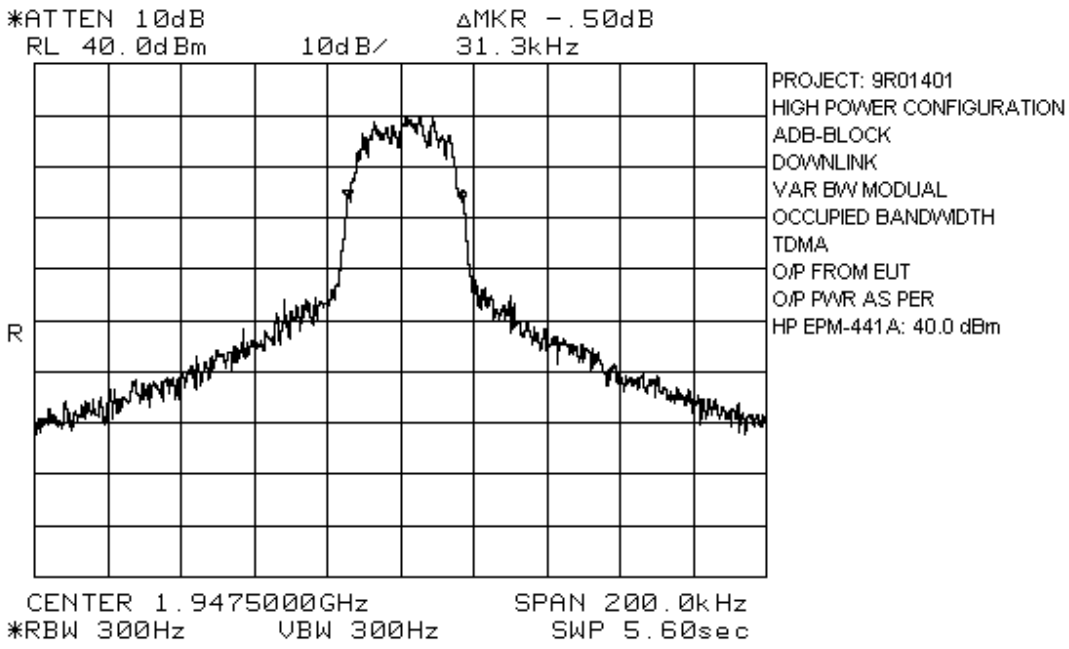
HIGH POWER CONFIGURATION
VAR BW MODUAL
DOWNLINK
ADB-BLOCK
OCCUPIED BANDWIDTH
GSM
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.947500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms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10dB/
ΔMKR -.50dB
31.3kHz
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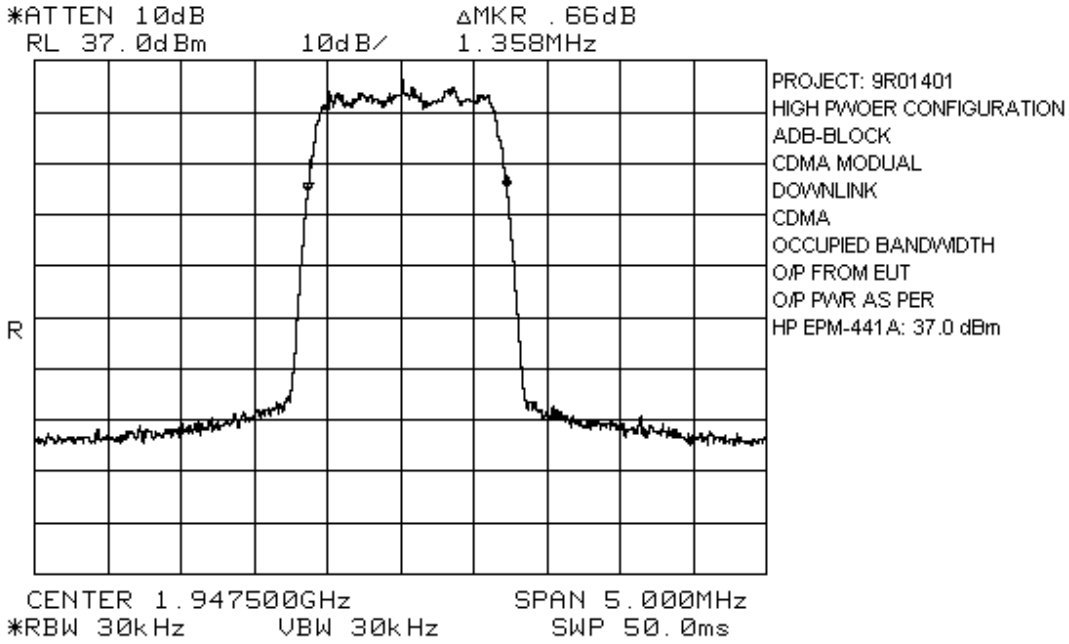
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
VAR BW MODUAL
OCCUPIED BANDWIDTH
TDMA
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.9475000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec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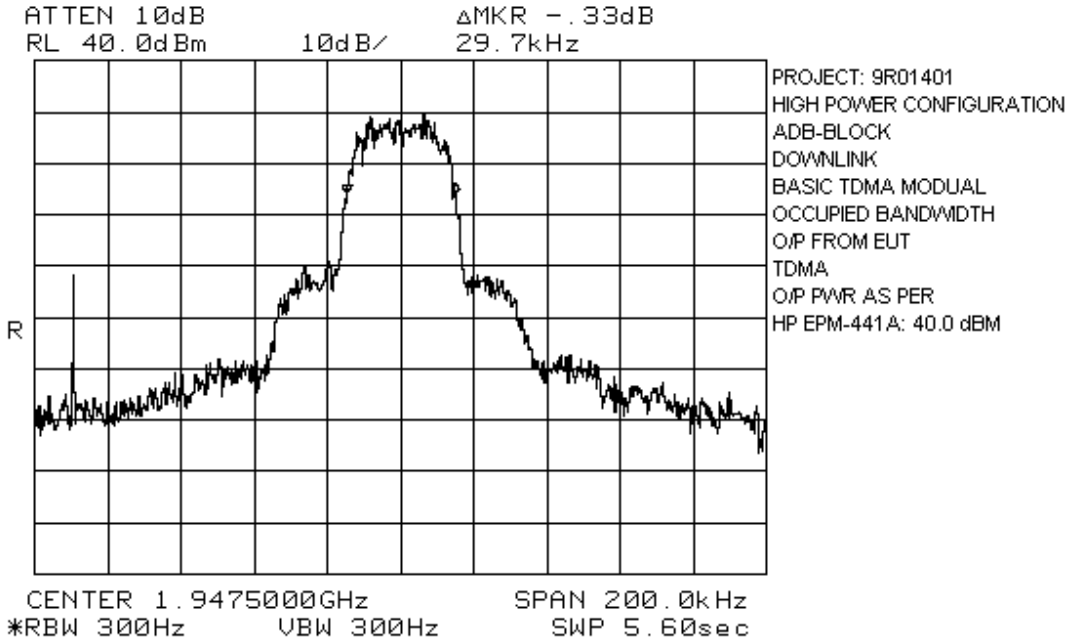
RL 37.0dBm
10dB/
ΔMKR .66dB
1.358MHz
R
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
ADB-BLOCK
CDMA MODUAL
DOWNLINK
CDMA
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.947500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms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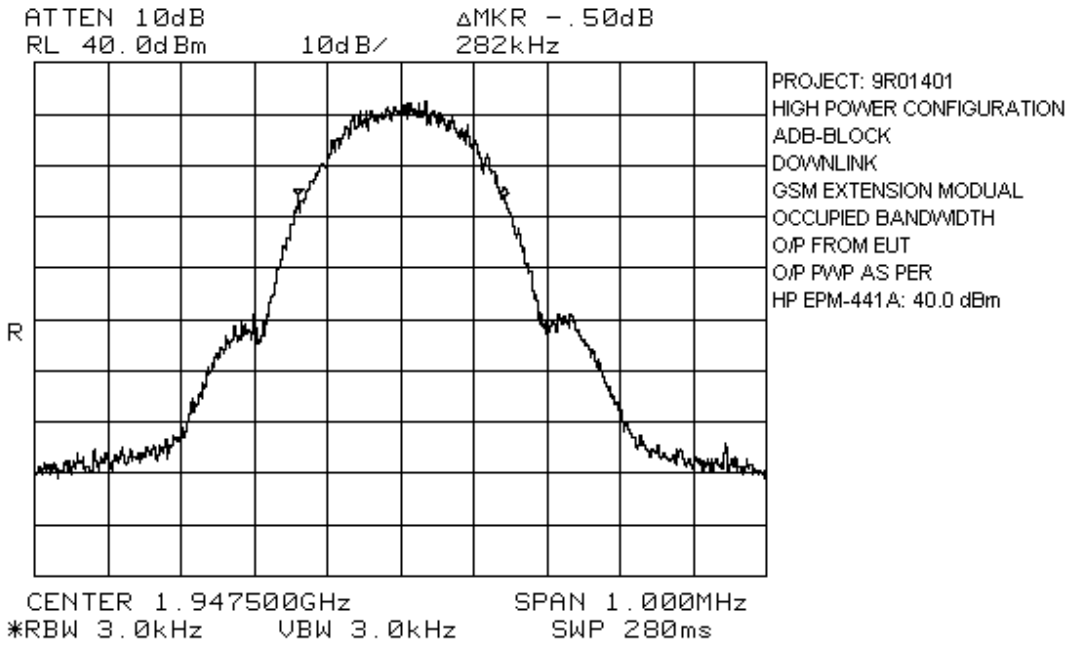
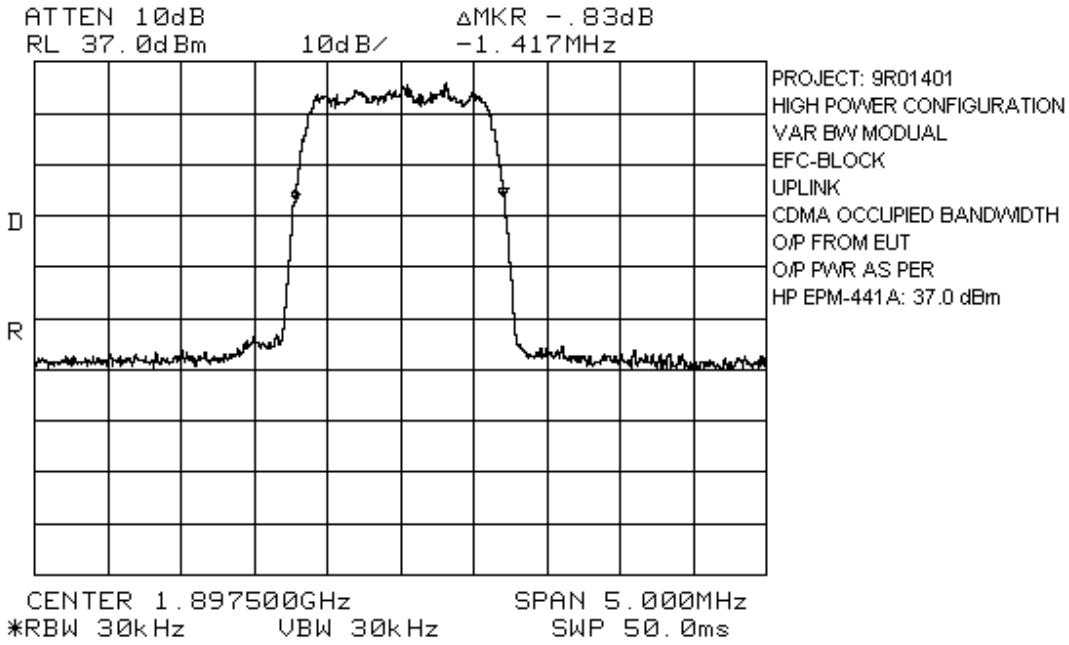
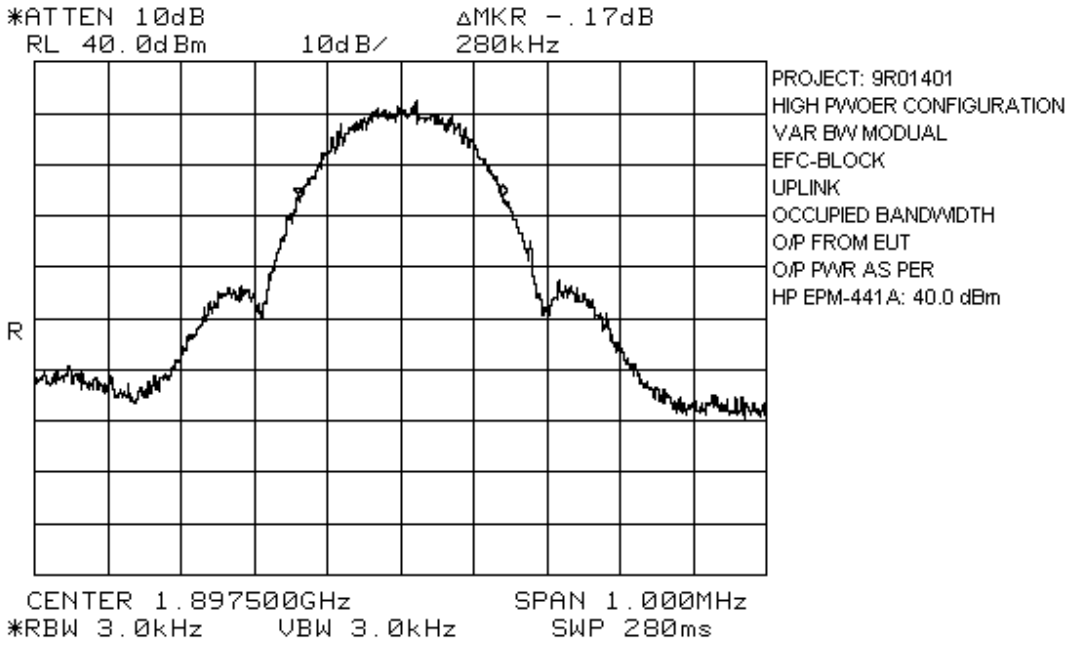
RL 40.0dBm
10dB/
ΔMKR -.33dB
29.7kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
BASIC TDMA MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
TDMA
O/P PWR AS PER
HP EPM-441A: 40.0 dBM
CENTER 1.9475000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec


ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR -.50dB
282kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
GSM EXTENSION MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
R
CENTER 1.947500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

EFC - Block


ATTEN 10dB
RL 37.0dBm
10dB/
ΔMKR -.83dB
-1.417MHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
UPLINK
CDMA OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.897500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms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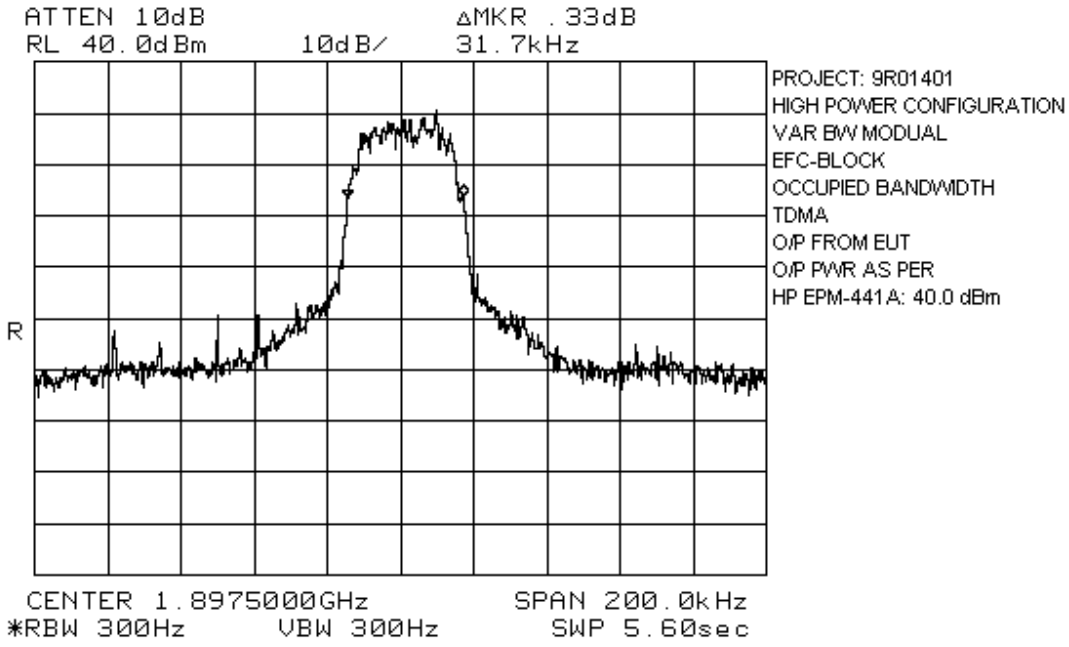
10dB/
ΔMKR -.17dB
280kHz
R
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
UPLINK
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.897500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms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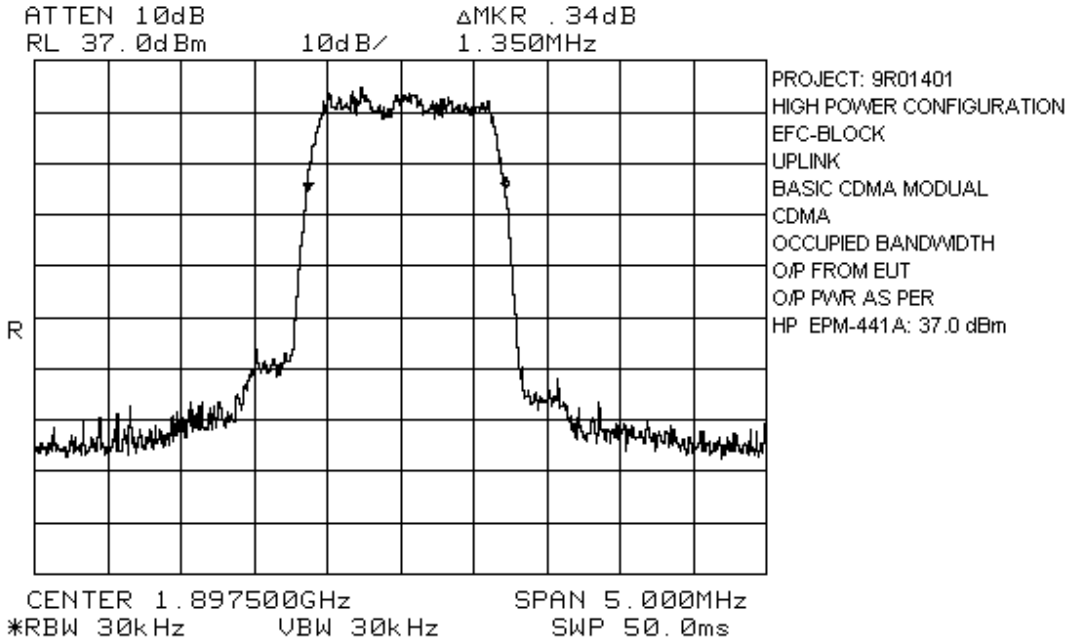
RL 40.0dBm
10dB/
ΔMKR .33dB
31.7kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
OCCUPIED BANDWIDTH
TDMA
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.8975000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec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1.350MHz
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PROJECT: 9R01401
HIGH POWER CONFIGURATION
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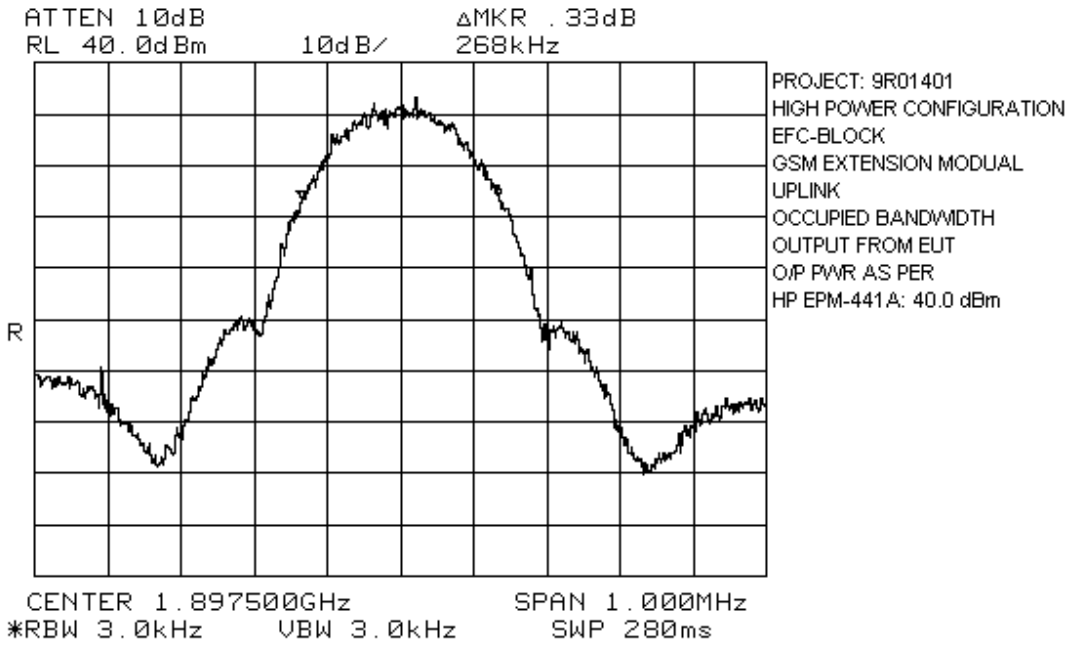
UPLINK
BASIC CDMA MODUAL
CDMA
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.897500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms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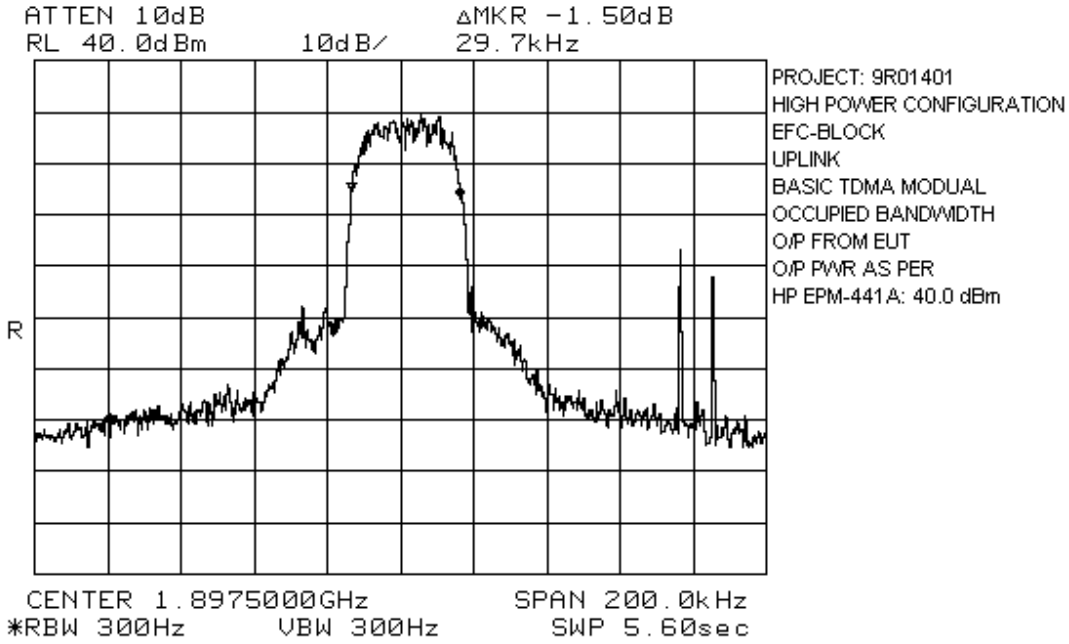
10dB/
ΔMKR .33dB
268kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
GSM EXTENSION MODUAL
UPLINK
OCCUPIED BANDWIDTH
OUTPUT FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
R
CENTER 1.897500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms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10dB/
ΔMKR -1.50dB
29.7kHz
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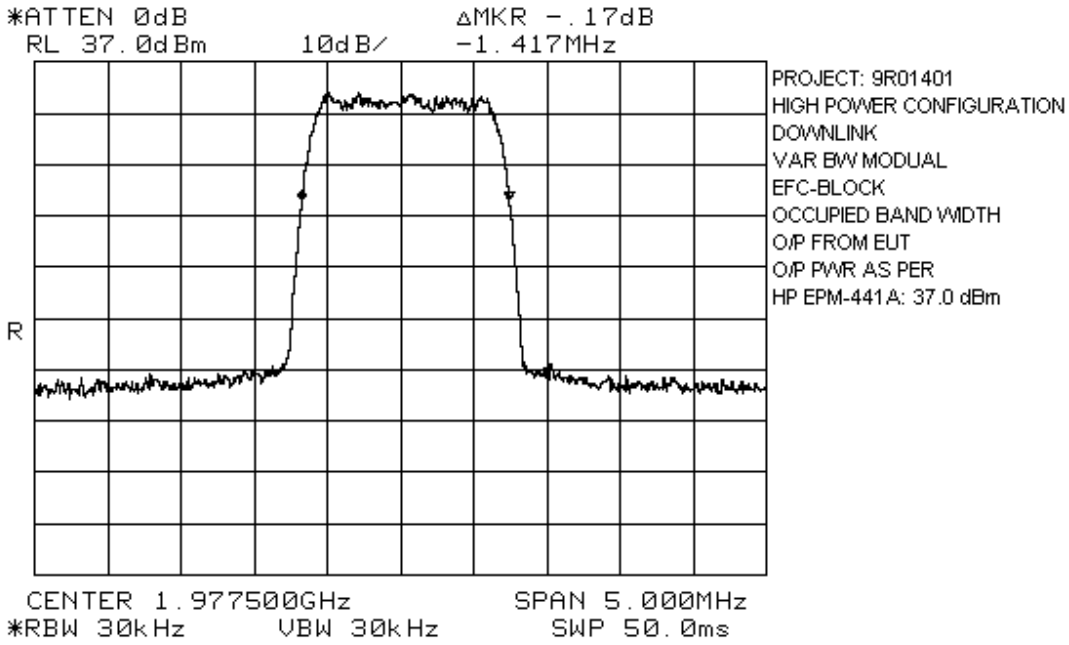
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
UPLINK
BASIC TDMA MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.8975000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec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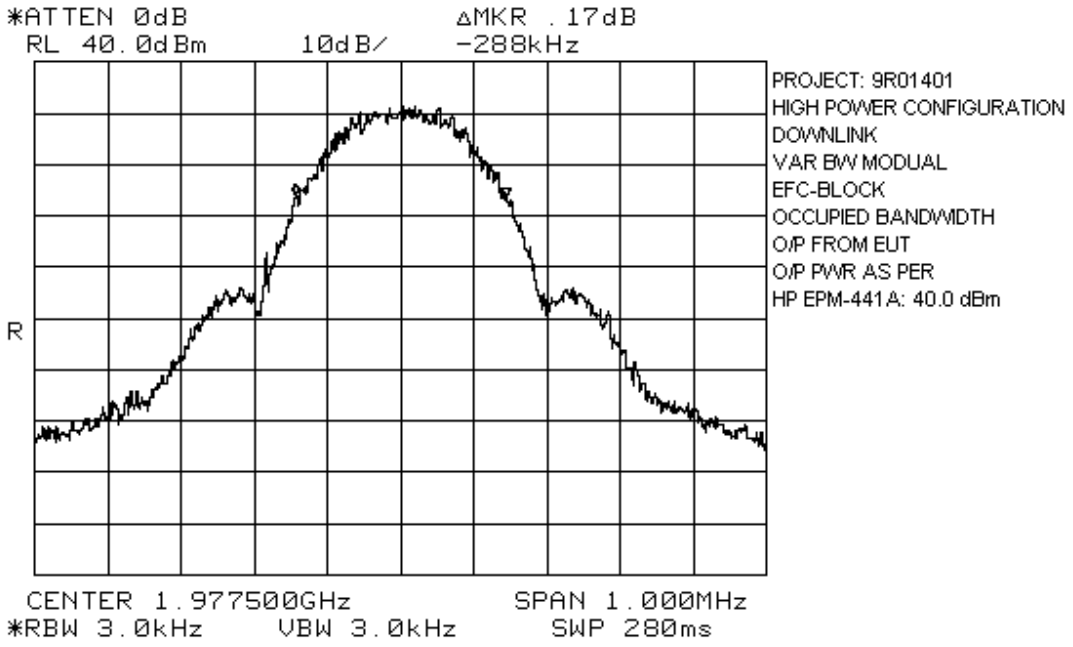
RL 37.0dBm
10dB/
ΔMKR -.17dB
-1.417MHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
OCCUPIED BAND WIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.977500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms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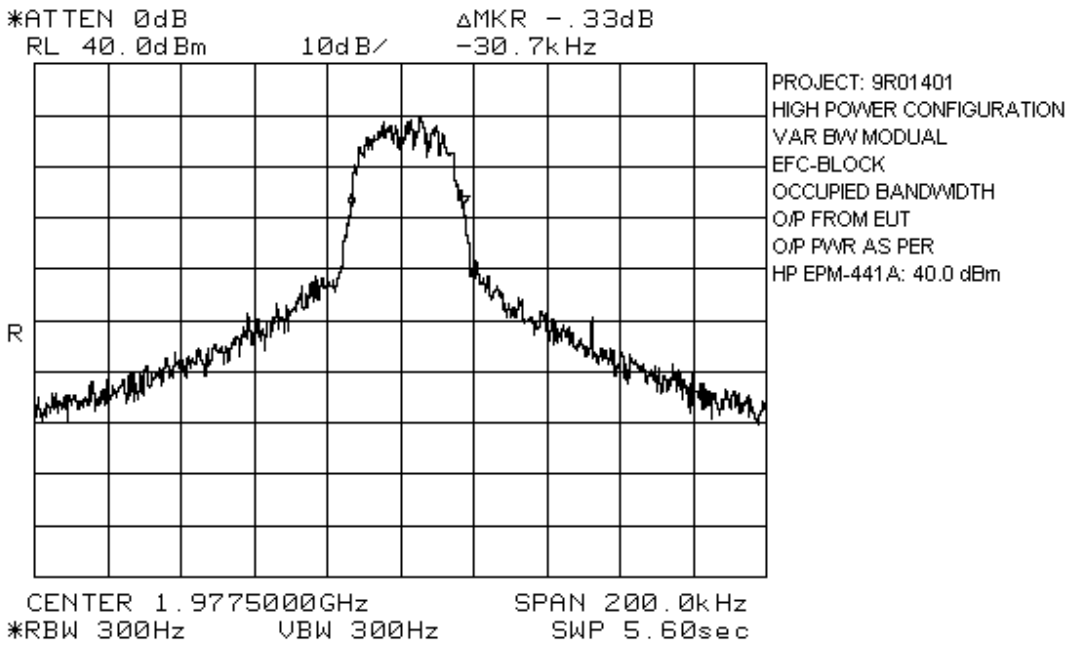
10dB/
ΔMKR .17dB
-288kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.977500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms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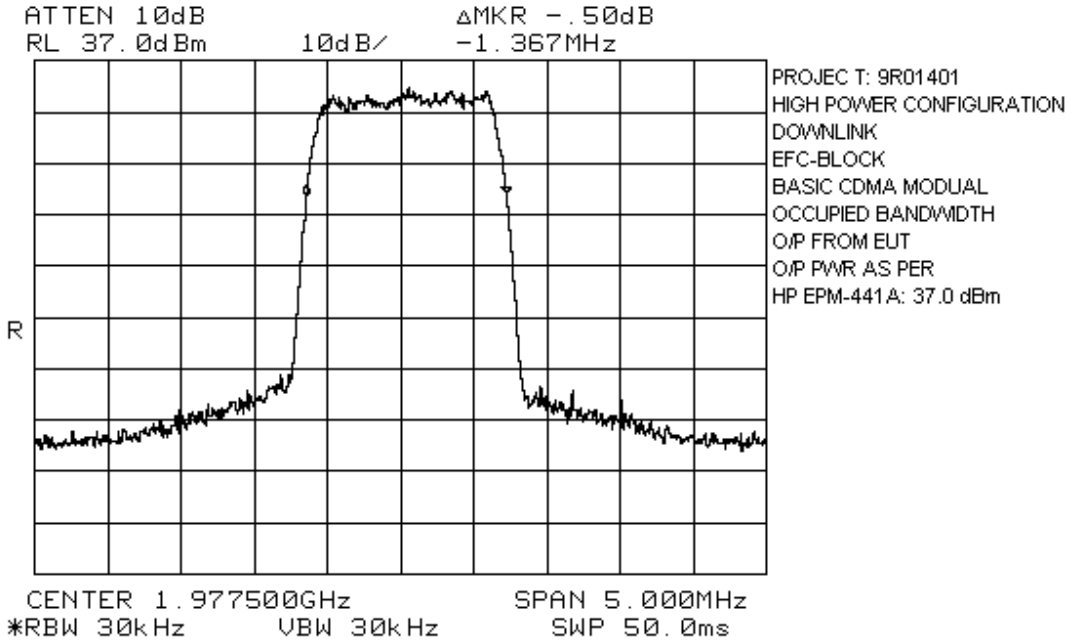
10dB/
ΔMKR -.33dB
-30.7kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.9775000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec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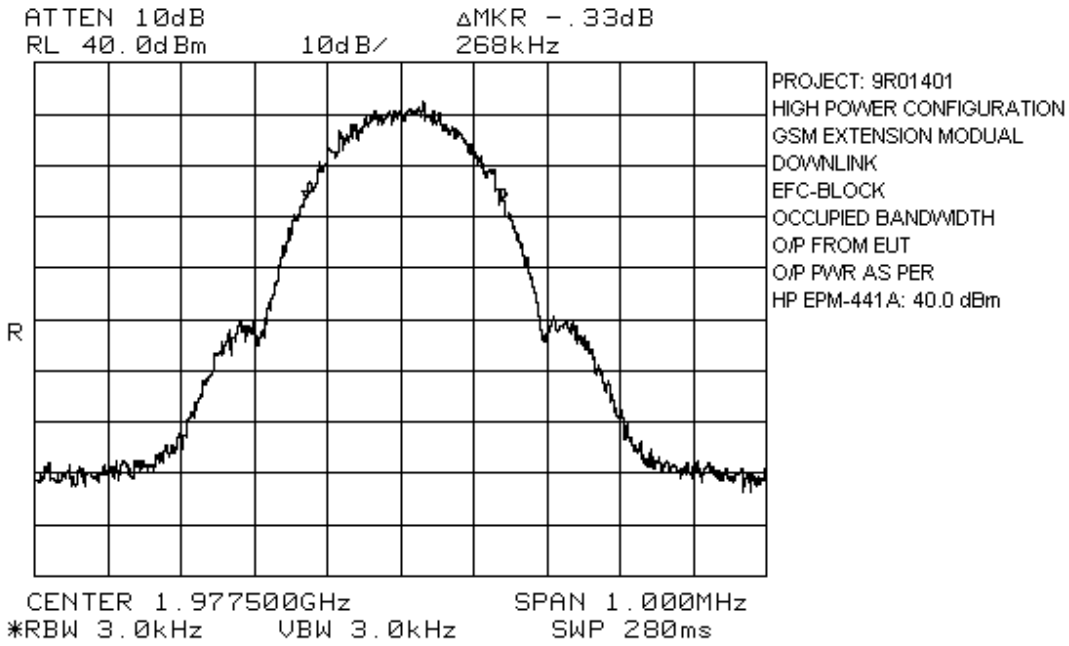
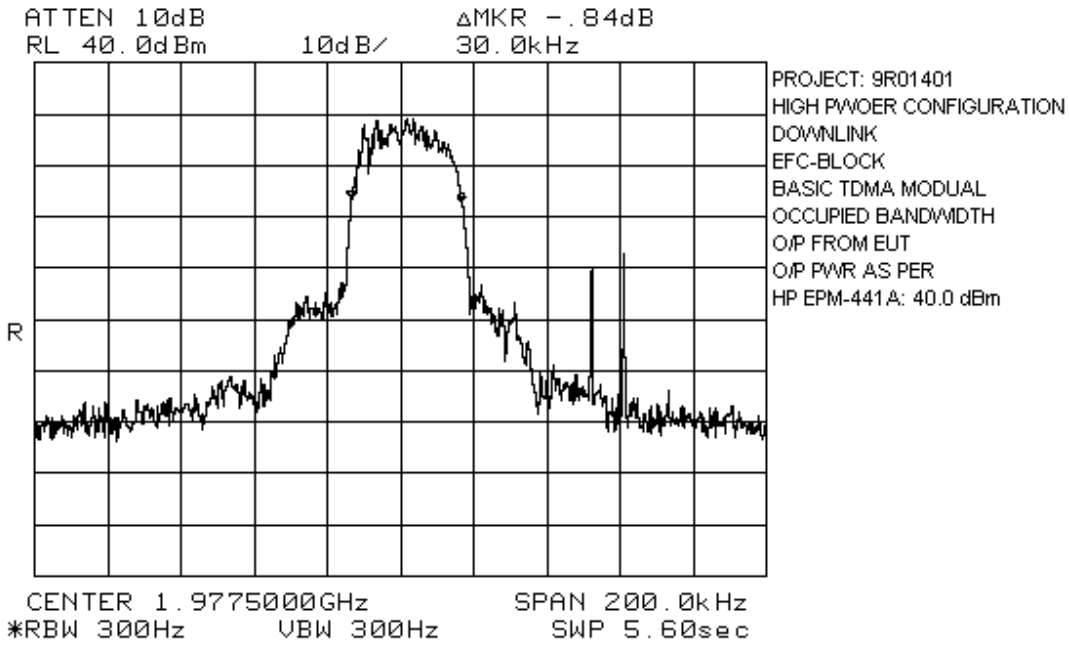
RL 37.0dBm
10dB/
ΔMKR -.50dB
-1.367MHz
PROJEC T: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
EFC-BLOCK
BASIC CDMA MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
R
CENTER 1.977500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms


ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR -.33dB
268kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
GSM EXTENSION MODUAL
DOWNLINK
EFC-BLOCK
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
R
CENTER 1.977500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms


ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR -.84dB
30.0kHz
R
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
DOWNLINK
EFC-BLOCK
BASIC TDMA MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.9775000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

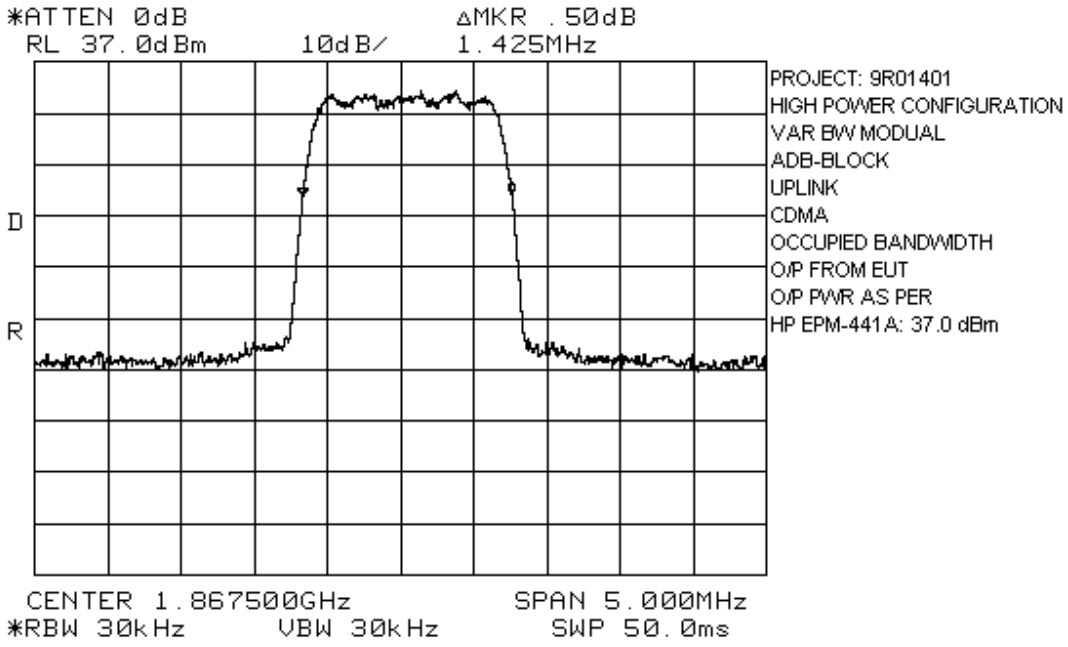
Section 4. Occupied Bandwidth

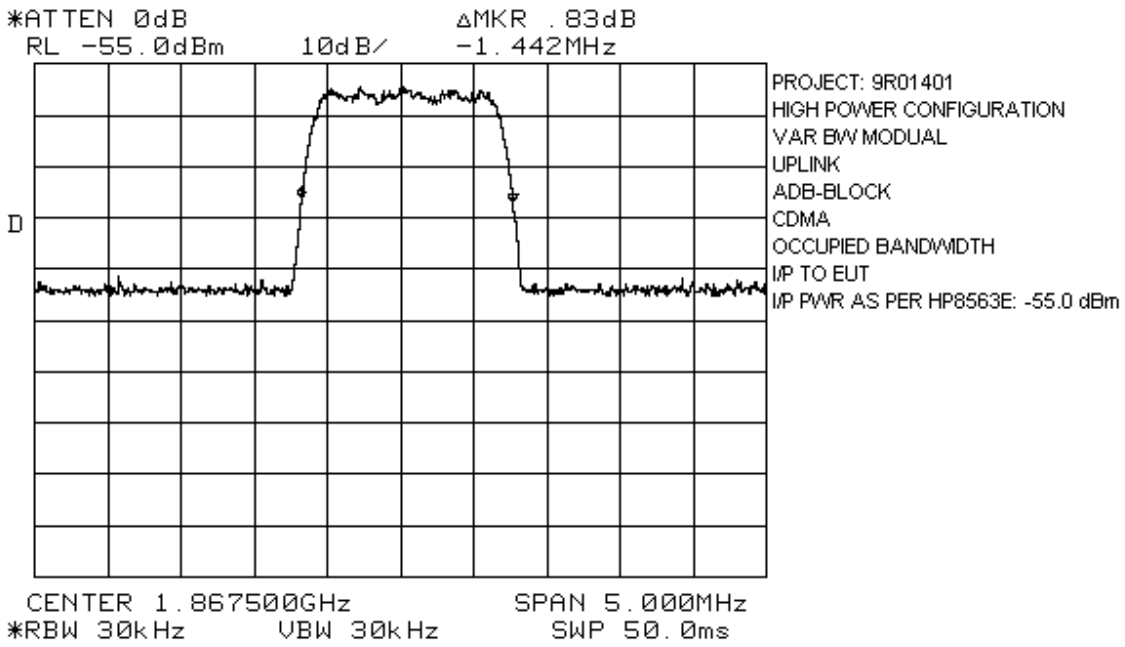
NAME OF TEST: Occupied Bandwidth (CDMA)	PARA. NO.: 2.917(c)
TESTED BY: Kevin Carr	DATE: August 16, 1999

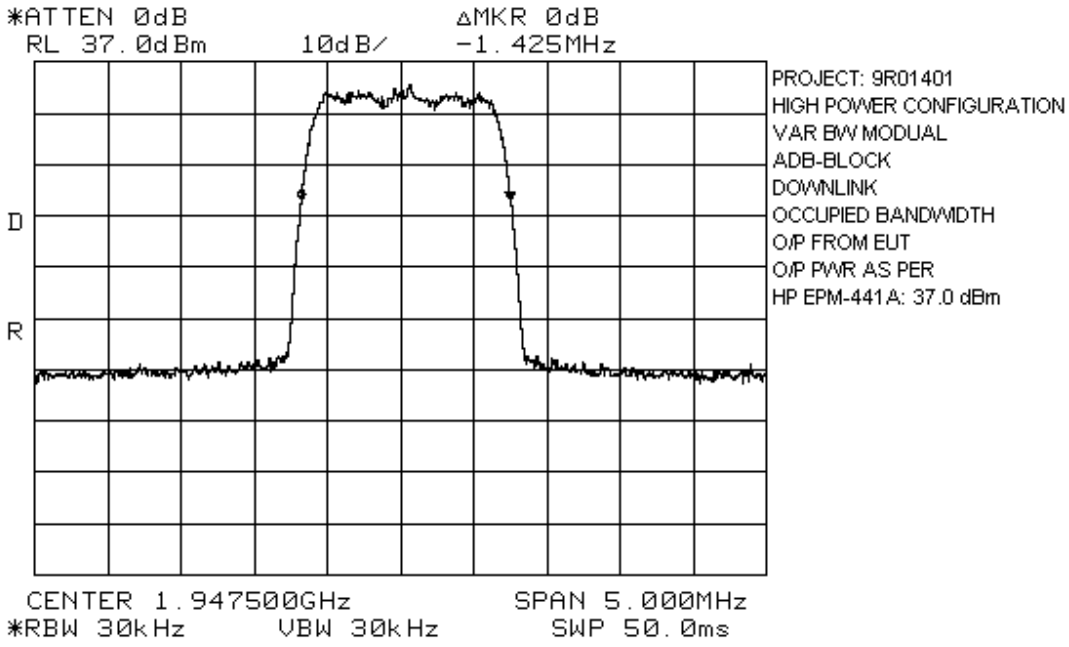
Test Results: Complies.

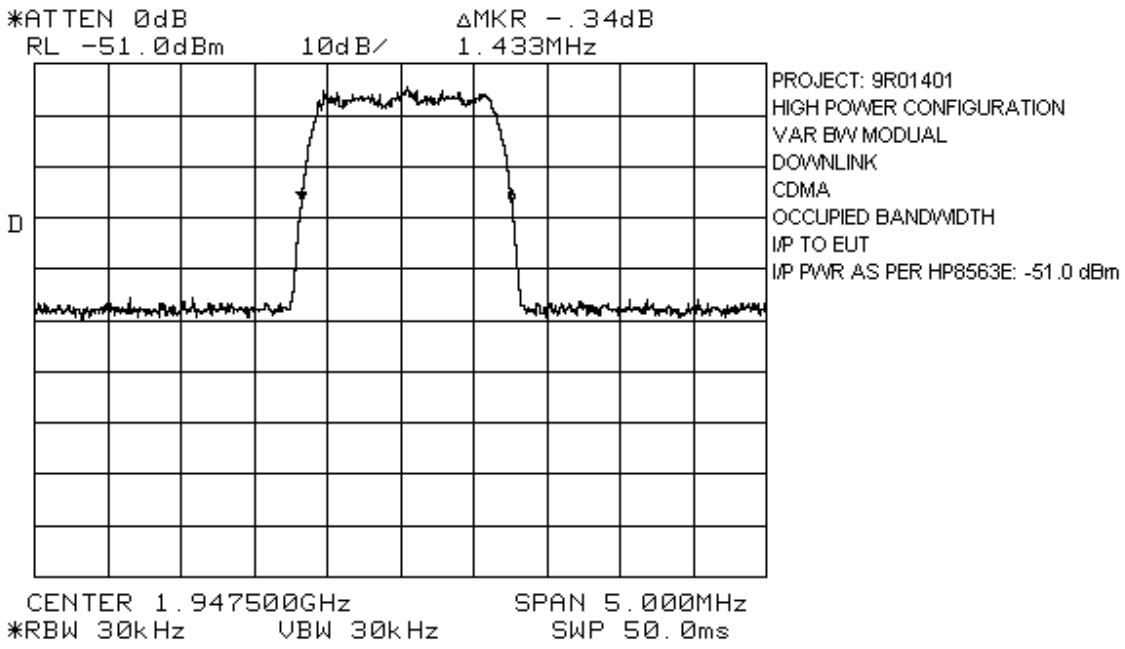
Test Data: See attached graph(s).

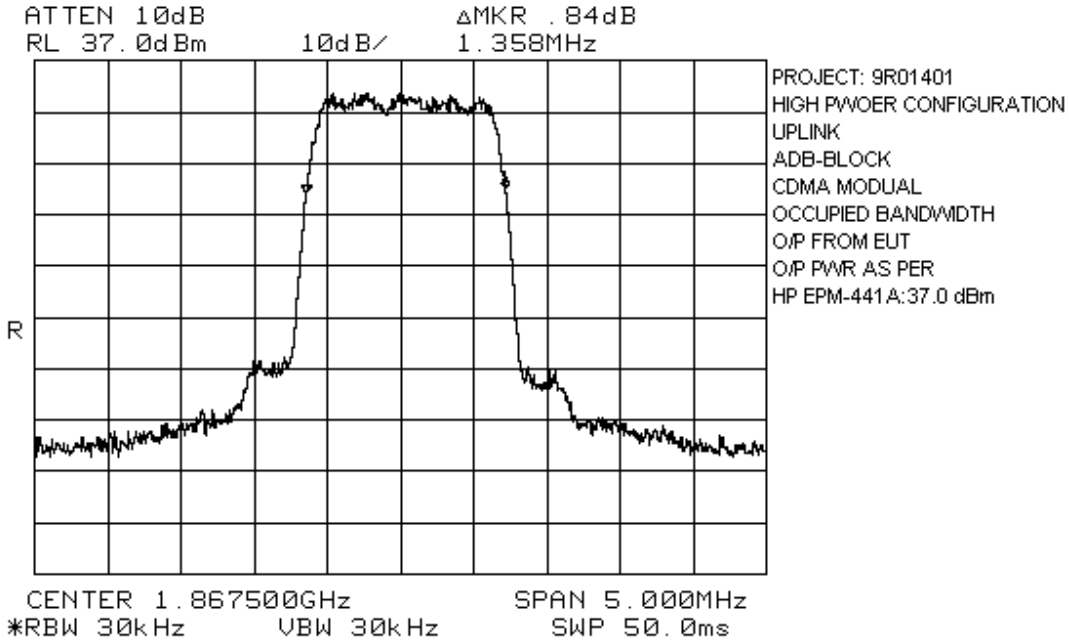
ADB - Block

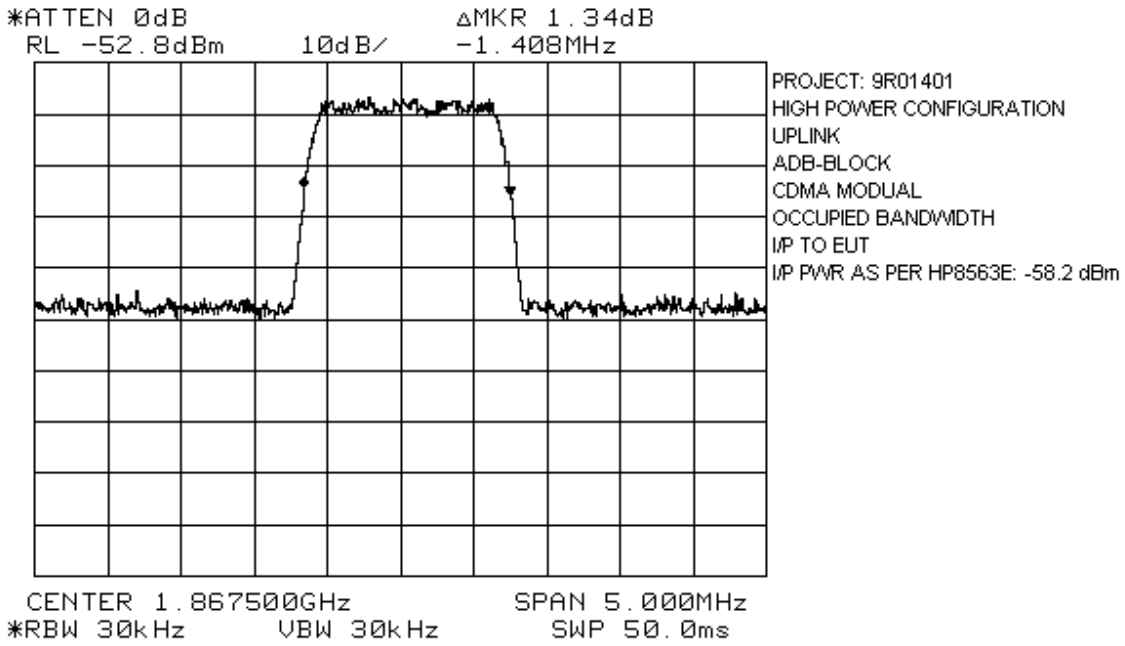

*ATTEN 0dB
RL 37.0dBm
10dB/
ΔMKR .50dB
1.425MHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
UPLINK
CDMA
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.867500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

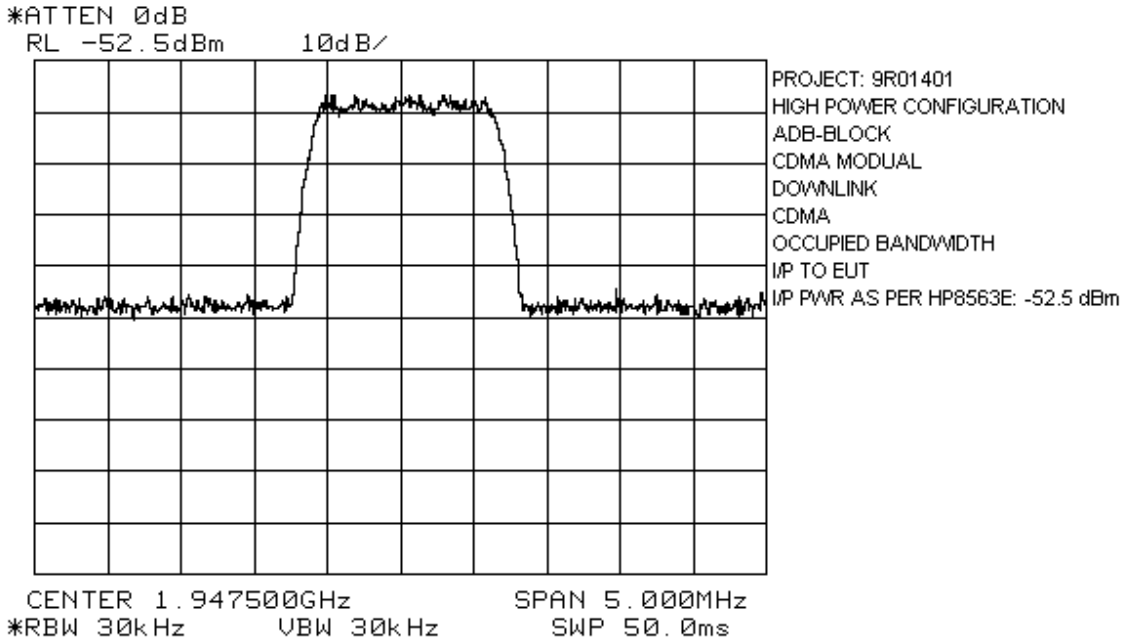

*ATTEN 0dB
RL -55.0dBm
10dB/
ΔMKR .83dB
-1.442MHz
D
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
ADB-BLOCK
CDMA
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER HP8563E: -55.0 dBm
CENTER 1.867500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

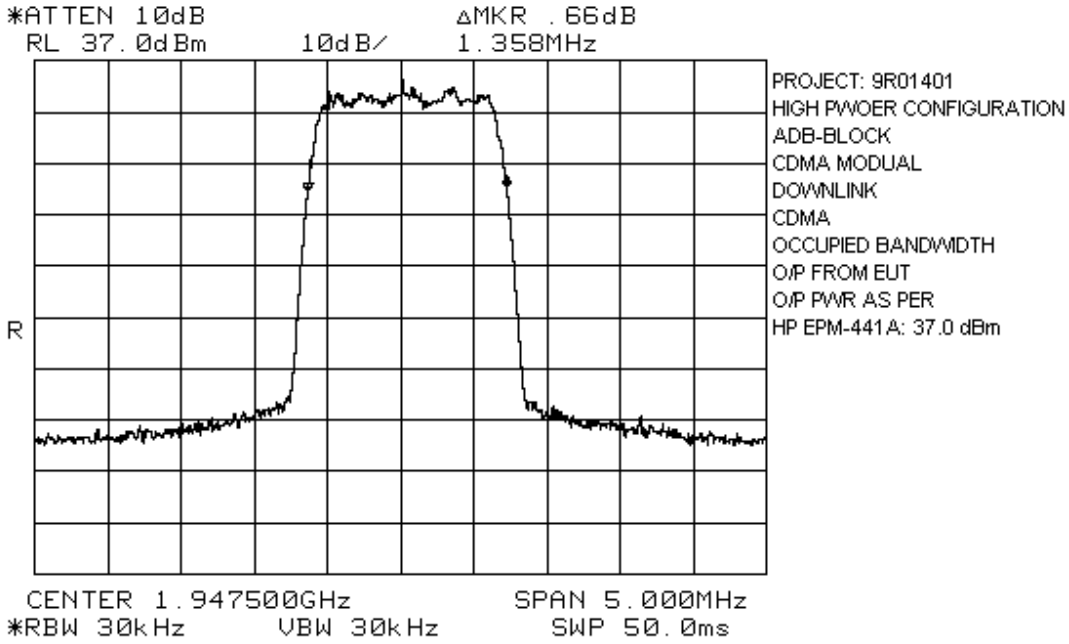

*ATTEN 0dB
RL 37.0dBm
10dB/
ΔMKR 0dB
-1.425MHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
DOWNLINK
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.947500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms


*ATTEN 0dB
RL -51.0dBm
10dB/
ΔMKR -.34dB
1.433MHz
D
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
DOWNLINK
CDMA
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER HP8563E: -51.0 dBm
CENTER 1.947500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

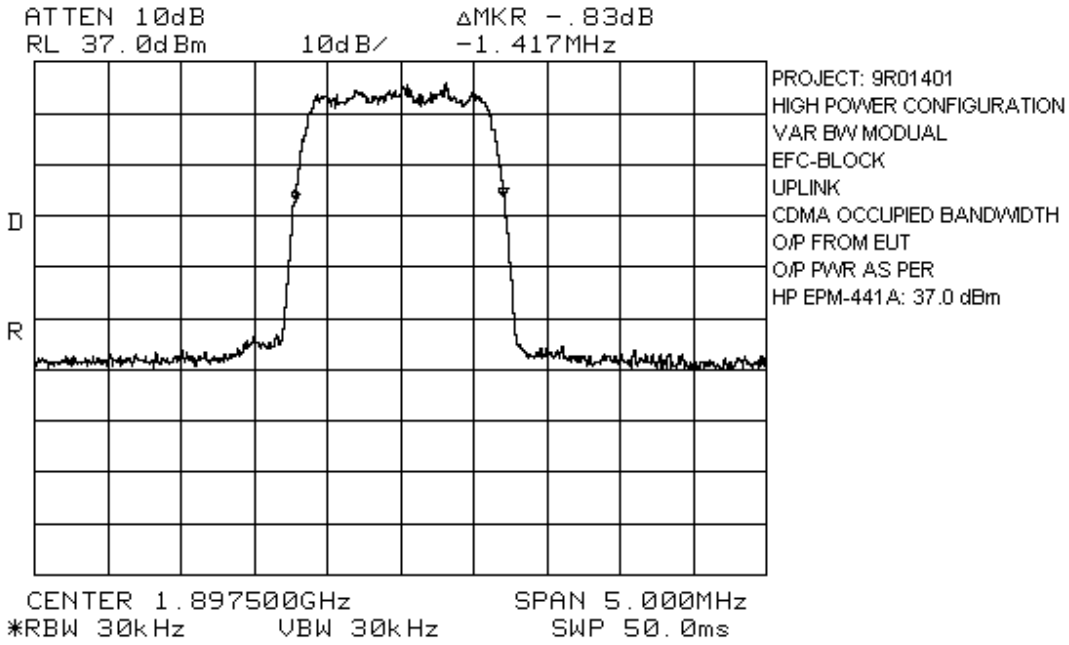

ATTEN 10dB
RL 37.0dBm
10dB/
ΔMKR .84dB
1.358MHz
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
UPLINK
ADB-BLOCK
CDMA MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A:37.0 dBm
R
CENTER 1.867500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

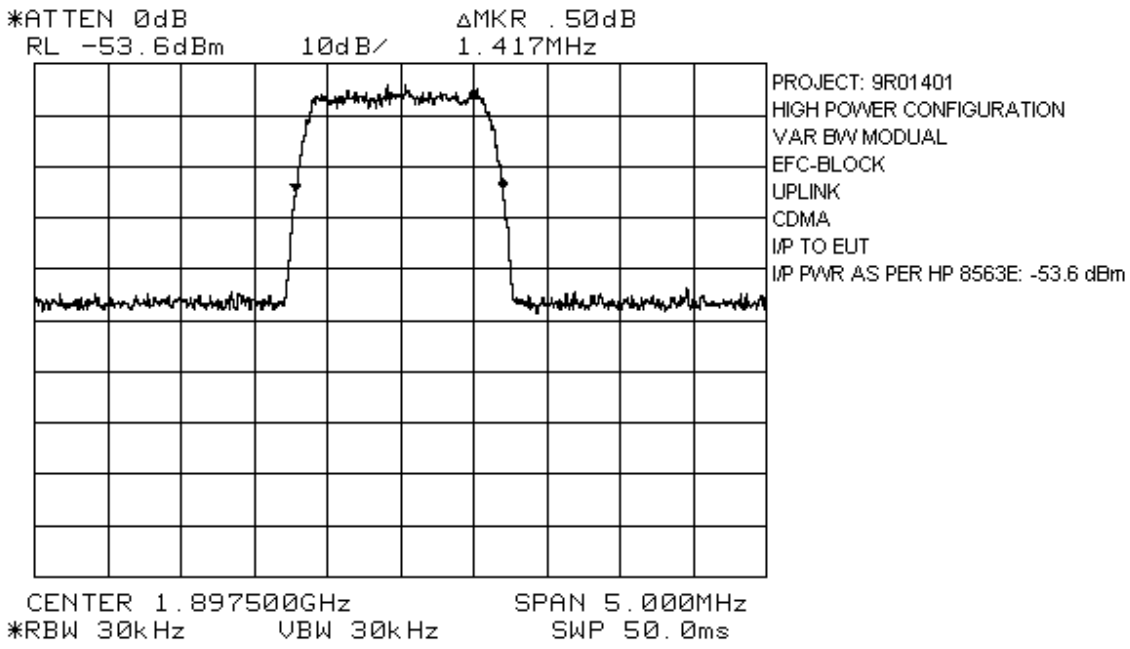

*ATTEN 0dB
ΔMKR 1.34dB
RL -52.8dBm
10dB/
-1.408MHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
UPLINK
ADB-BLOCK
CDMA MODUAL
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER HP8563E: -58.2 dBm
CENTER 1.867500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

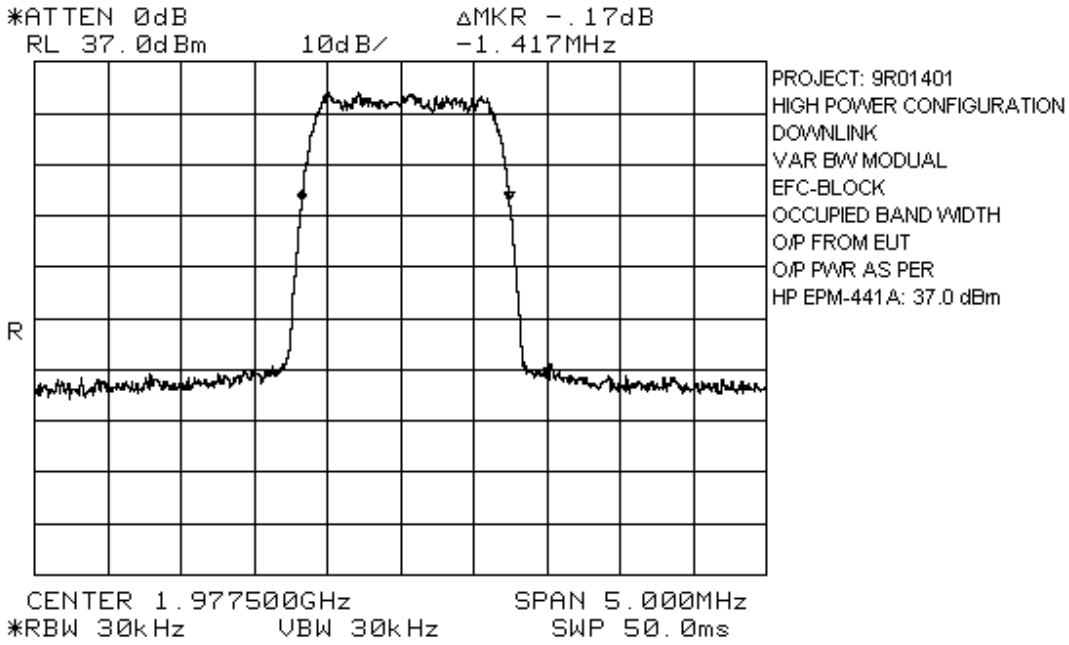

*ATTEN 0dB
RL -52.5dBm
10dB/
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
CDMA MODUAL
DOWNLINK
CDMA
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER HP8563E: -52.5 dBm
CENTER 1.947500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

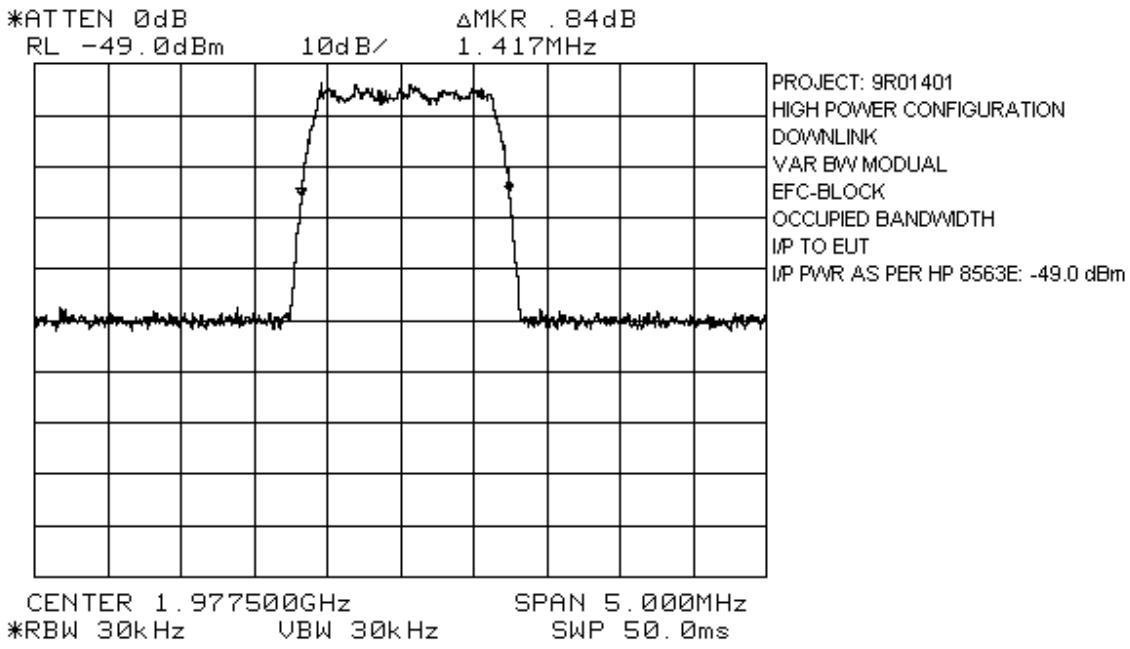

*ATTEN 10dB
RL 37.0dBm
10dB/
ΔMKR .66dB
1.358MHz
R
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
ADB-BLOCK
CDMA MODUAL
DOWNLINK
CDMA
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.947500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

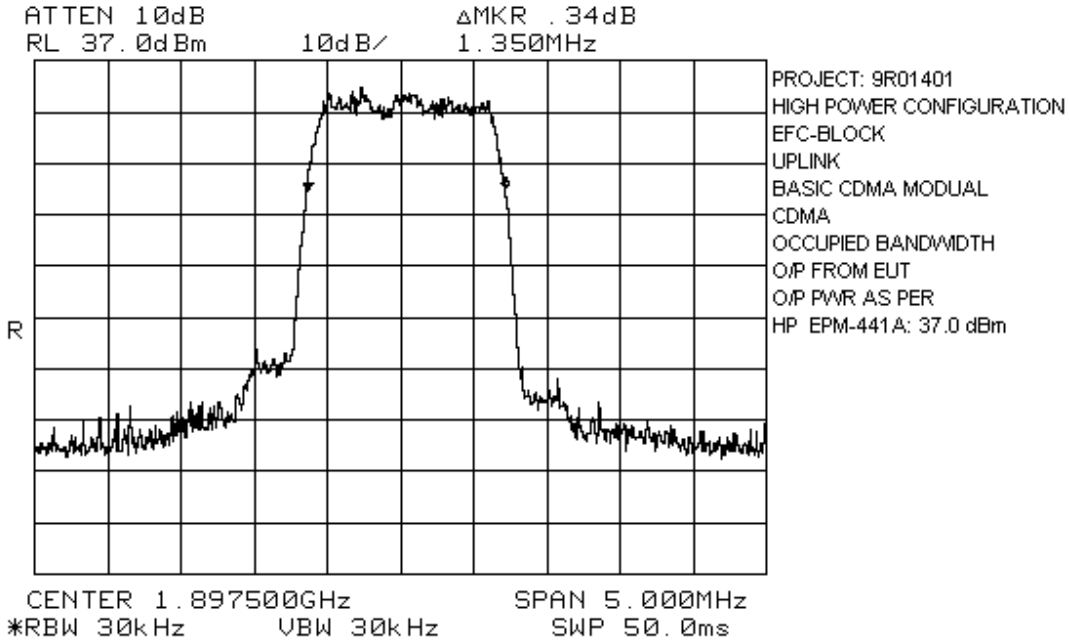
EFC - Block

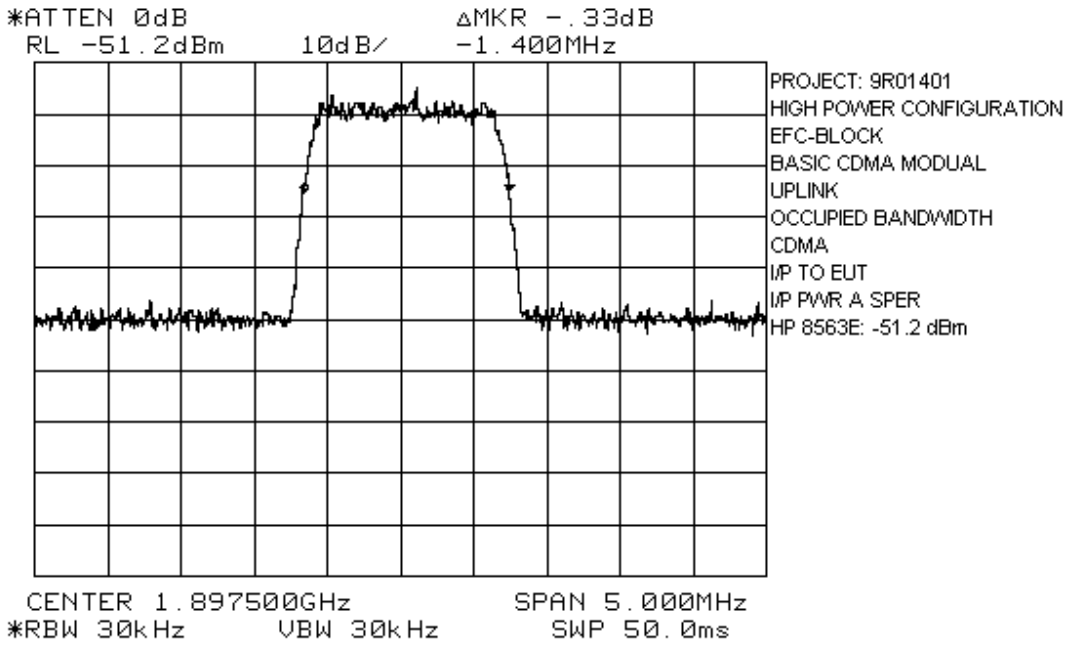

ATTEN 10dB
RL 37.0dBm
10dB/
ΔMKR -.83dB
-1.417MHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
UPLINK
CDMA OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.897500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

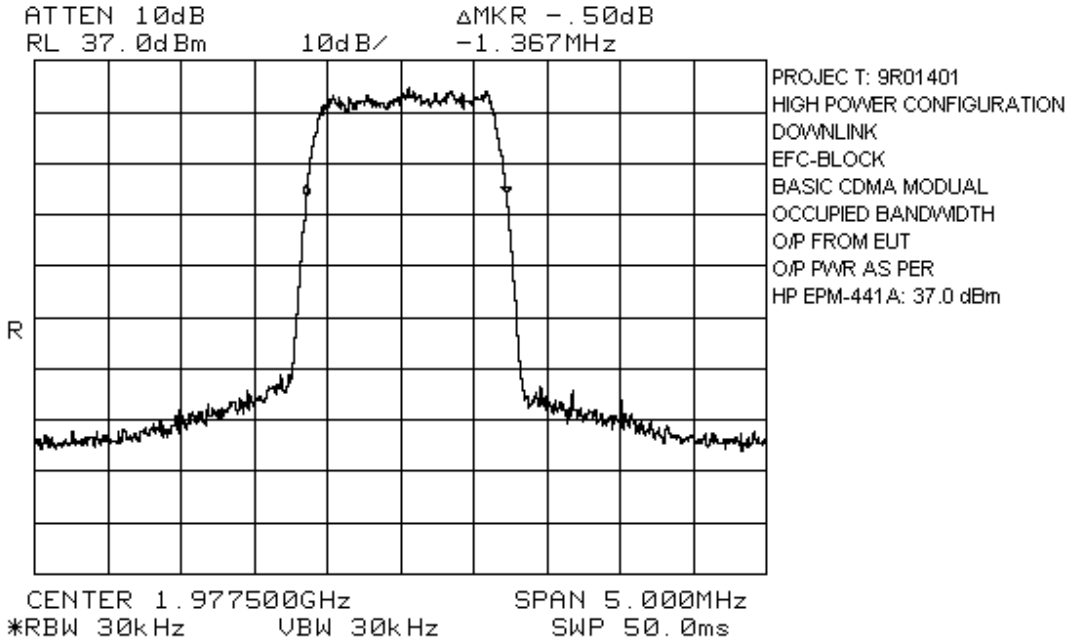

*ATTEN 0dB
RL -53.6dBm
10dB/
ΔMKR .50dB
1.417MHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
UPLINK
CDMA
I/P TO EUT
I/P PWR AS PER HP 8563E: -53.6 dBm
CENTER 1.897500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

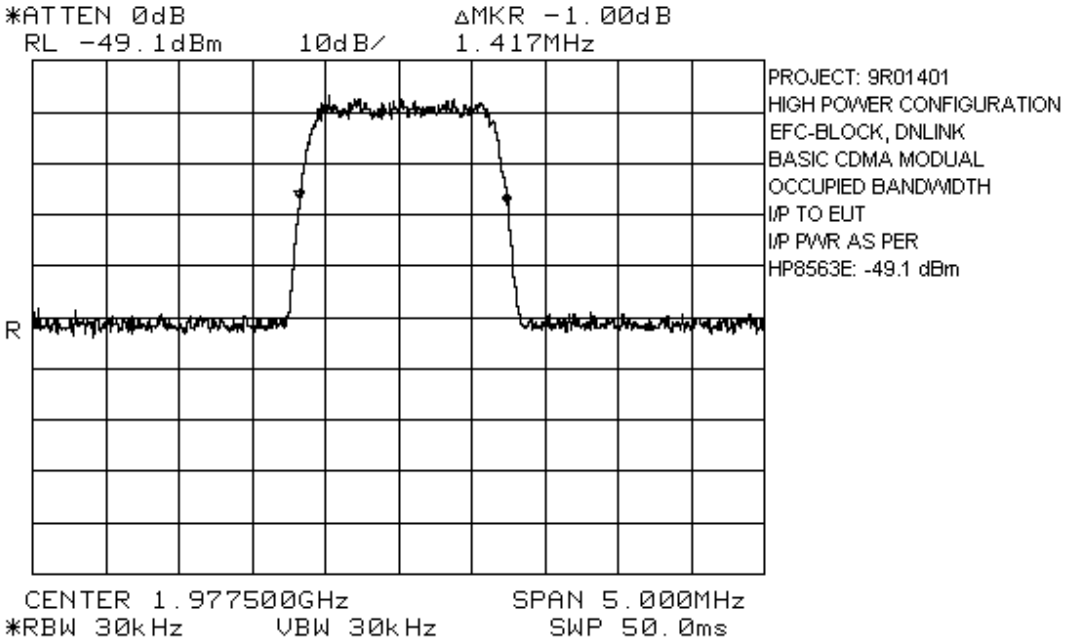

*ATTEN 0dB
RL 37.0dBm
10dB/
ΔMKR -.17dB
-1.417MHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
OCCUPIED BAND WIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.977500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms


*ATTEN 0dB
RL -49.0dBm
10dB/
ΔMKR .84dB
1.417MHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER HP 8563E: -49.0 dBm
CENTER 1.977500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms


ATTEN 10dB
RL 37.0dBm
10dB/
ΔMKR .34dB
1.350MHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
UPLINK
BASIC CDMA MODUAL
CDMA
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.897500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms


*ATTEN 0dB
ΔMKR -.33dB
RL -51.2dBm
10dB/
-1.400MHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
BASIC CDMA MODUAL
UPLINK
OCCUPIED BANDWIDTH
CDMA
I/P TO EUT
I/P PWR A SPER
HP 8563E: -51.2 dBm
CENTER 1.897500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms


ATTEN 10dB
RL 37.0dBm
10dB/
ΔMKR -.50dB
-1.367MHz
PROJEC T: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
EFC-BLOCK
BASIC CDMA MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
R
CENTER 1.977500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

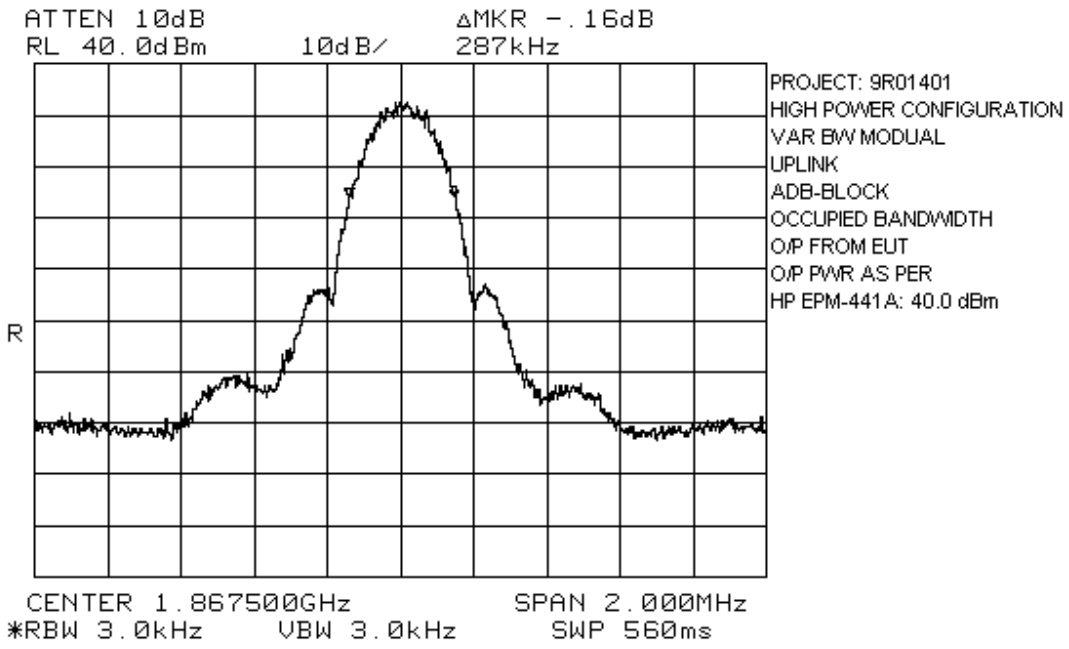

*ATTEN 0dB
ΔMKR -1.00dB
RL -49.1dBm
10dB/
1.417MHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK, DNLINK
BASIC CDMA MODUAL
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER
HP8563E: -49.1 dBm
R
CENTER 1.977500GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

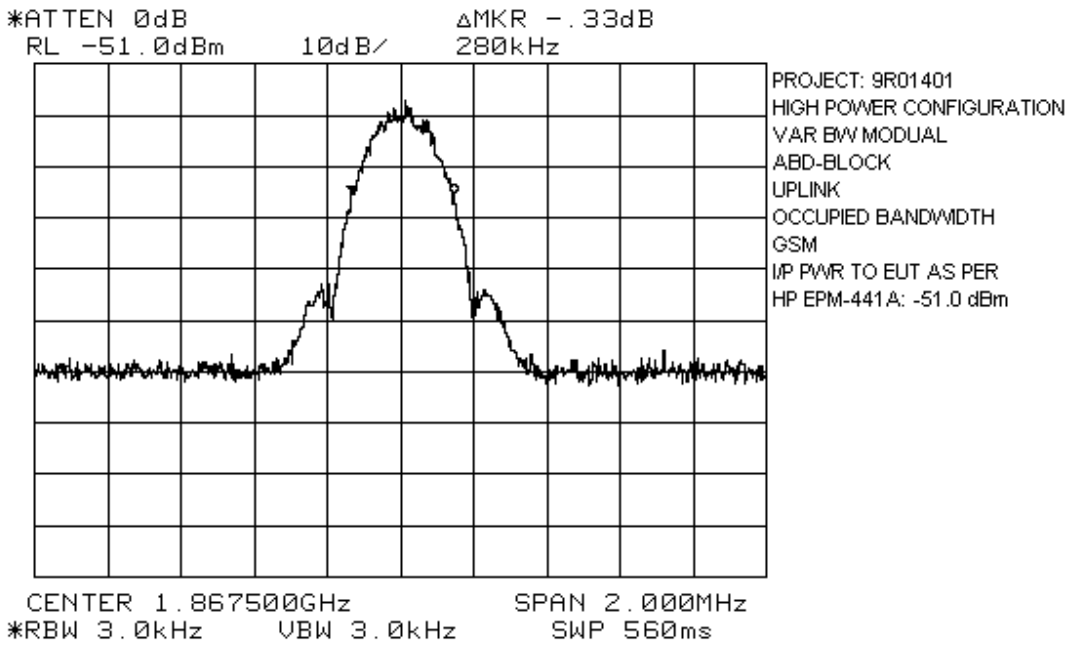
NAME OF TEST: Occupied Bandwidth (GSM)	PARA. NO.: 2.917(c)
TESTED BY: Kevin Carr	DATE: August 16, 1999

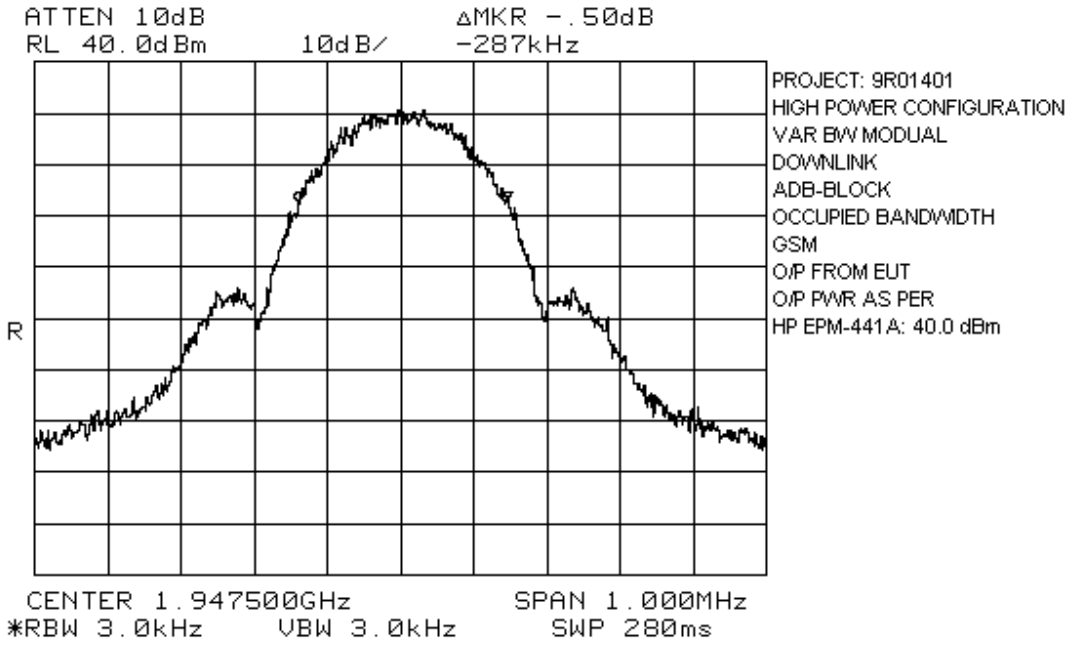
Test Results: Complies.

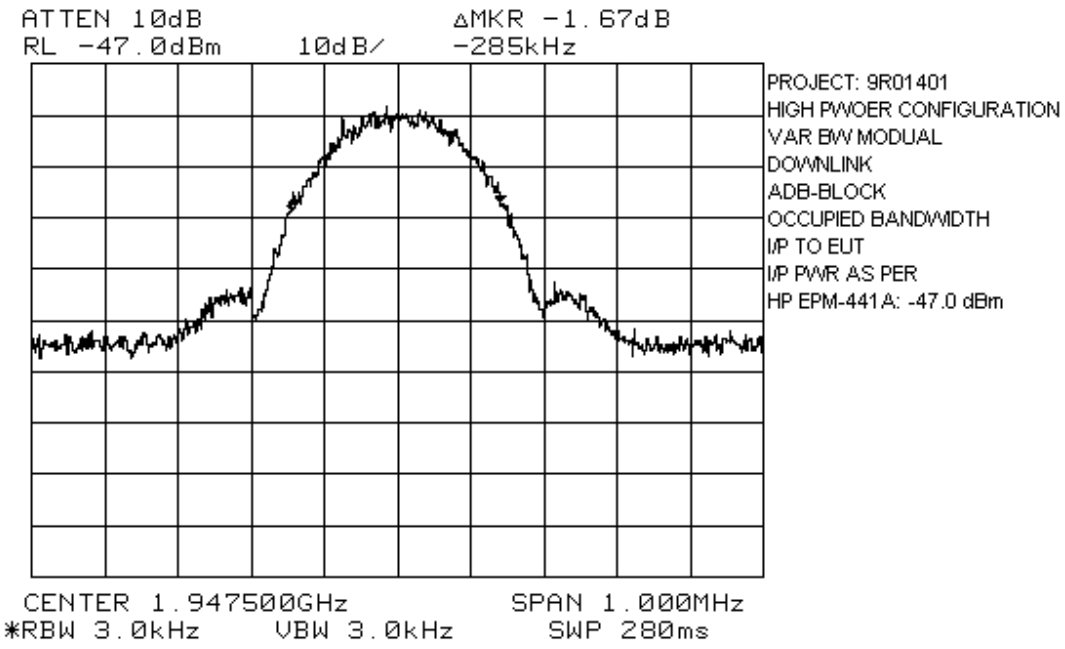
Test Data: See attached graph(s).

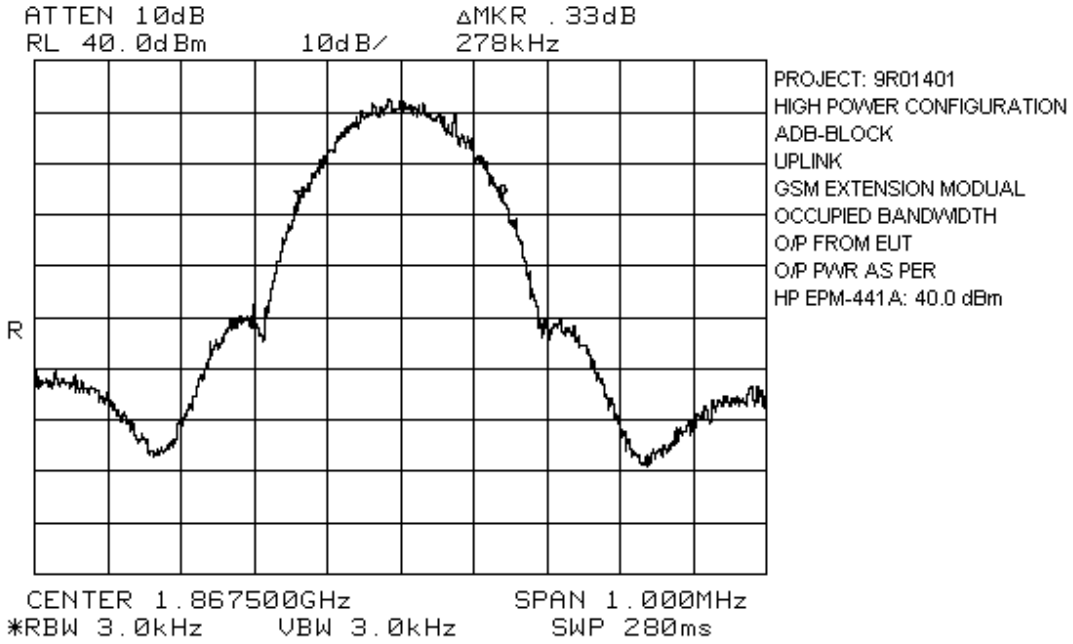
ADB - Block

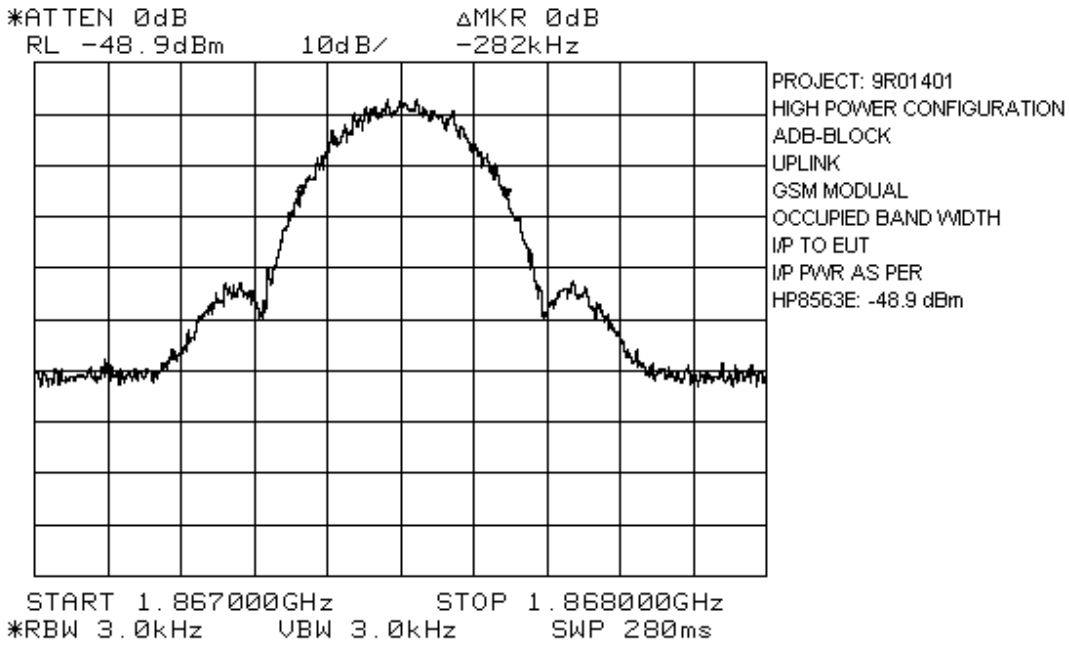

ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR -.16dB
287kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
ADB-BLOCK
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
R
CENTER 1.867500GHz
SPAN 2.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 560ms

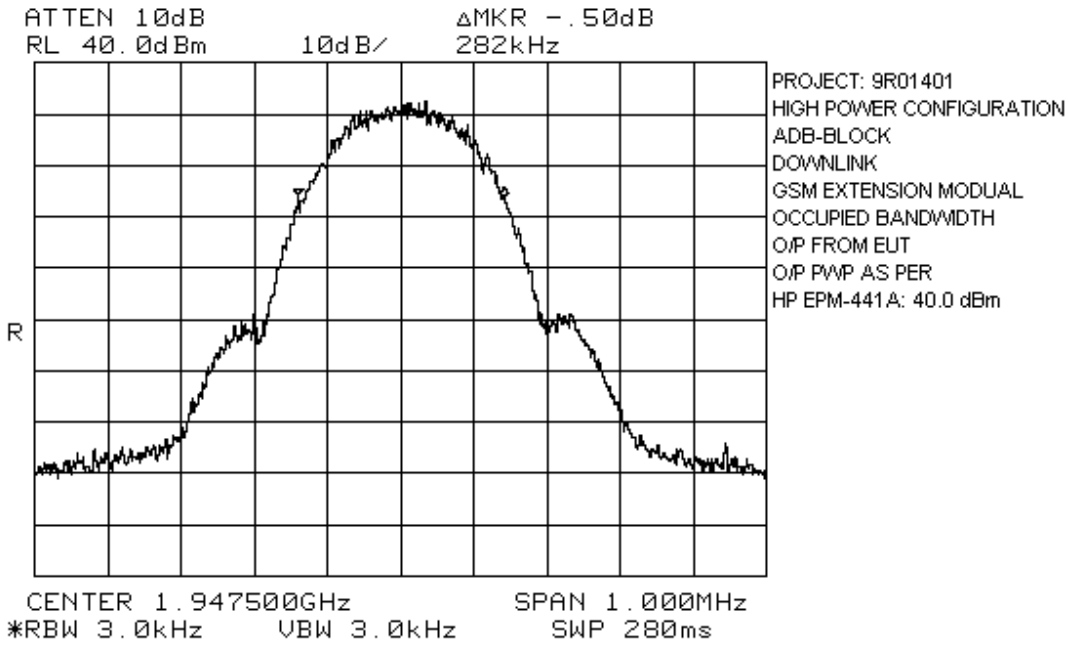

*ATTEN 0dB
ΔMKR -.33dB
RL -51.0dBm
10dB/
280kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
ABD-BLOCK
UPLINK
OCCUPIED BANDWIDTH
GSM
I/P PWR TO EUT AS PER
HP EPM-441A: -51.0 dBm
CENTER 1.867500GHz
SPAN 2.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 560ms

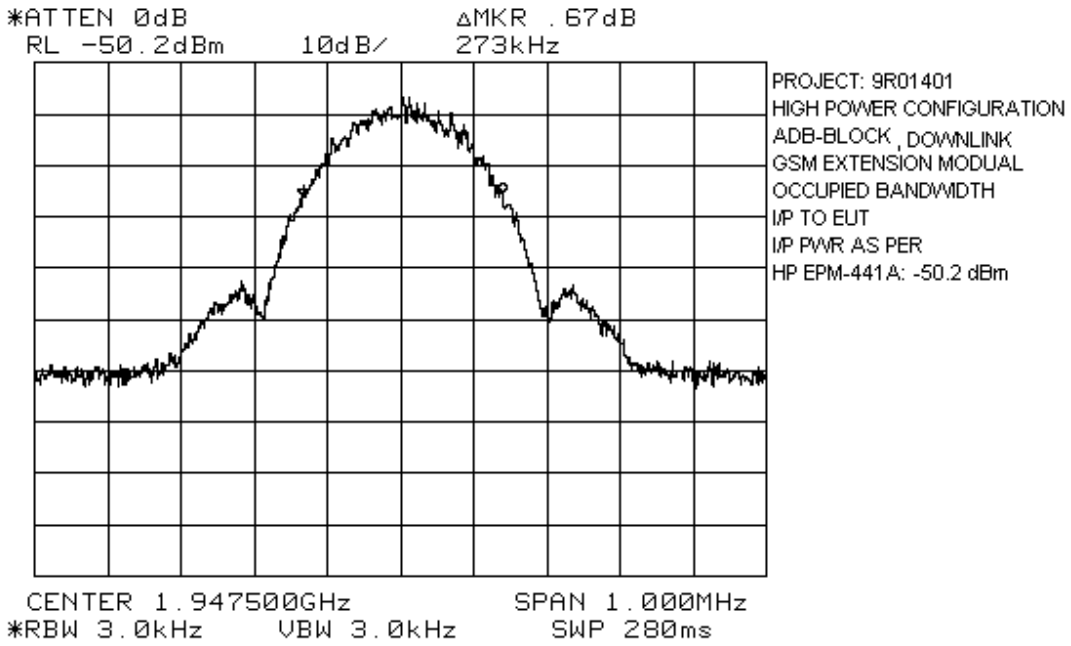

ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR -.50dB
-287kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
DOWNLINK
ADB-BLOCK
OCCUPIED BANDWIDTH
GSM
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.947500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms


ATTEN 10dB
RL -47.0dBm
10dB/
ΔMKR -1.67dB
-285kHz
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
VAR BW MODUAL
DOWNLINK
ADB-BLOCK
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER
HP EPM-441A: -47.0 dBm
CENTER 1.947500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

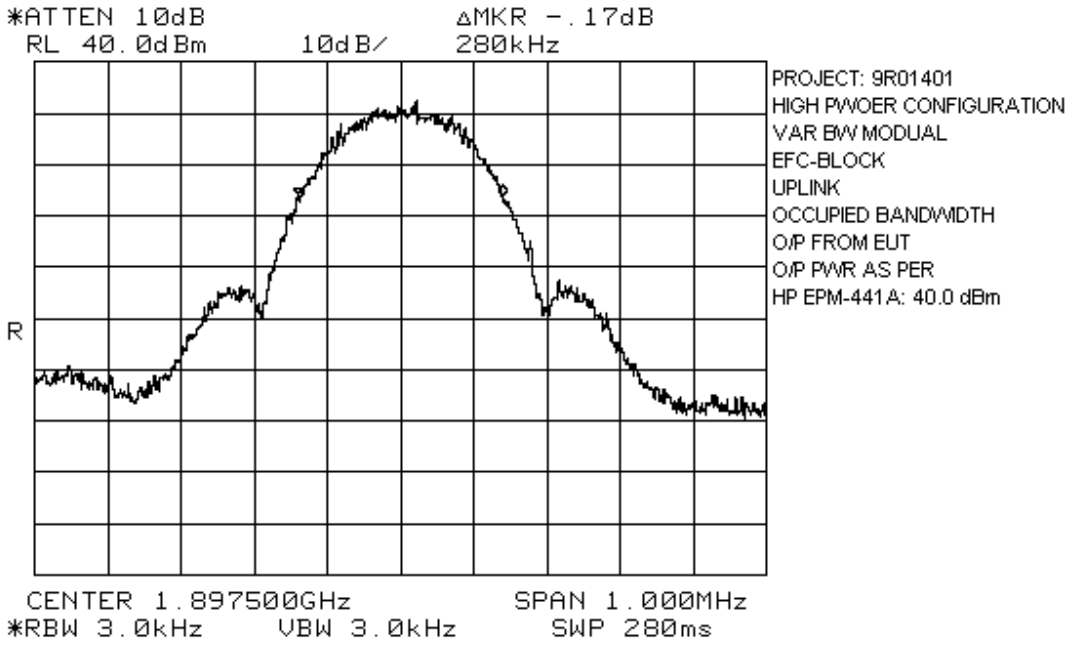

ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR .33dB
278kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
UPLINK
GSM EXTENSION MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.867500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

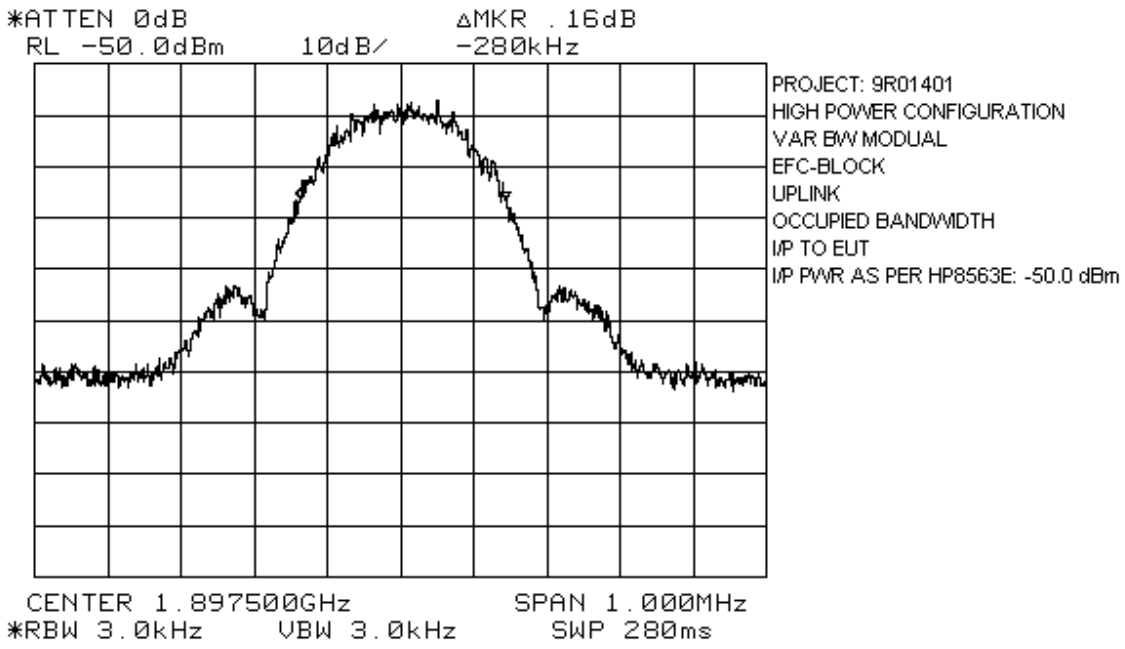

*ATTEN 0dB
RL -48.9dBm
10dB/
ΔMKR 0dB
-282kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
UPLINK
GSM MODUAL
OCCUPIED BAND WIDTH
I/P TO EUT
I/P PWR AS PER
HP8563E: -48.9 dBm
START 1.867000GHz
STOP 1.868000GHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

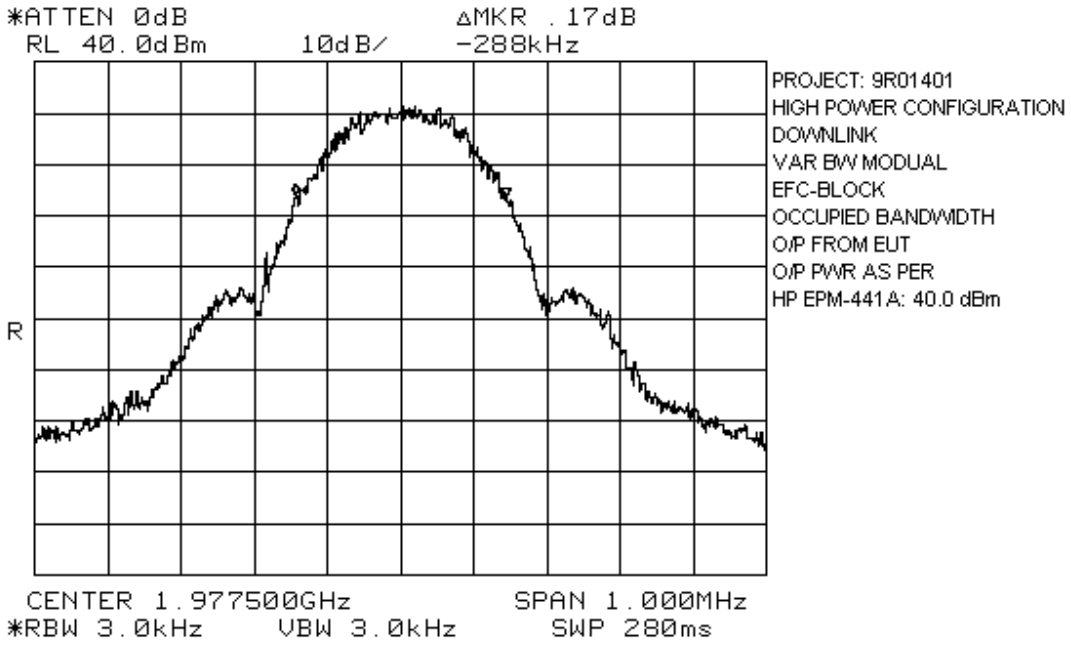

ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR -.50dB
282kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
GSM EXTENSION MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.947500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

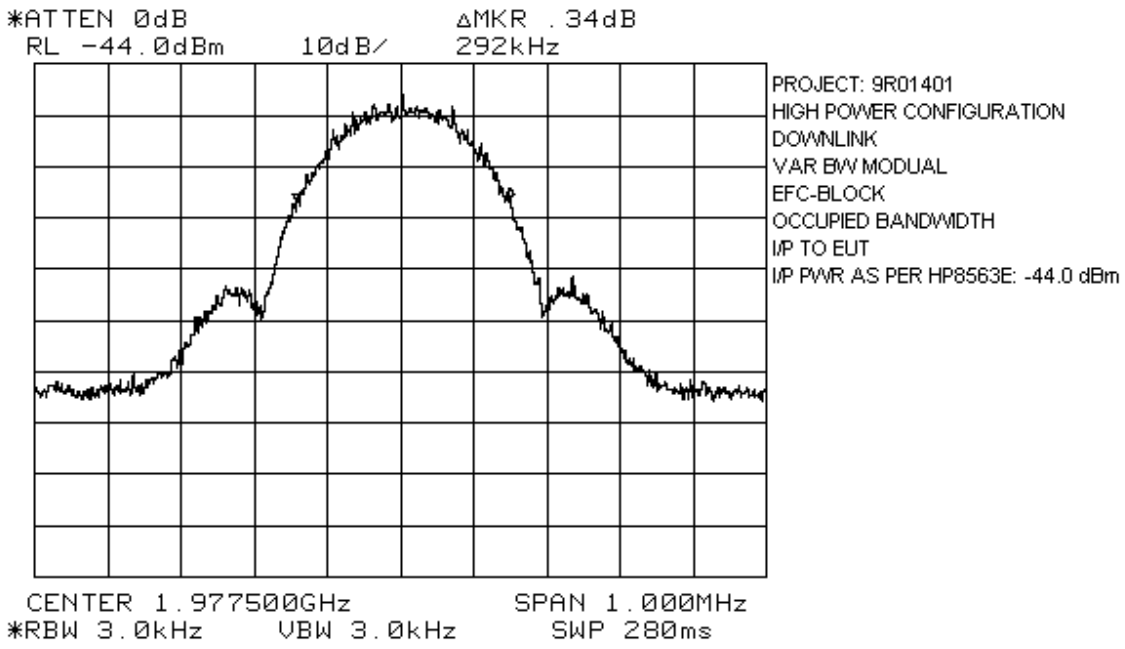

*ATTEN 0dB
ΔMKR .67dB
RL -50.2dBm
10dB/
273kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK , DOWNLINK
GSM EXTENSION MODUAL
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER
HP EPM-441A: -50.2 dBm
CENTER 1.947500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

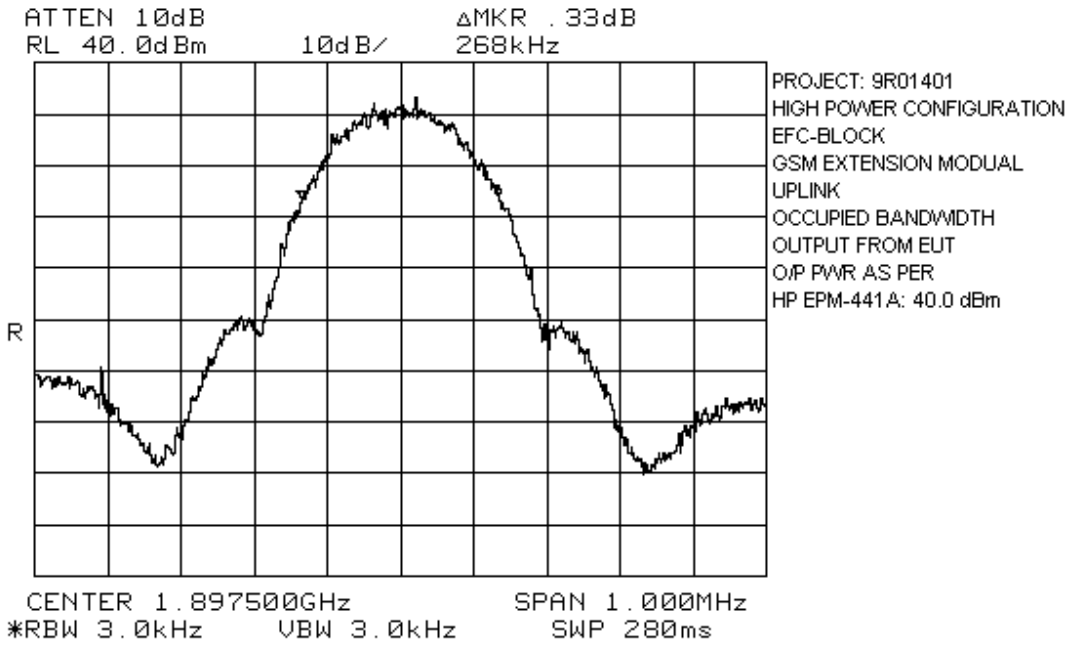
EFC - Block

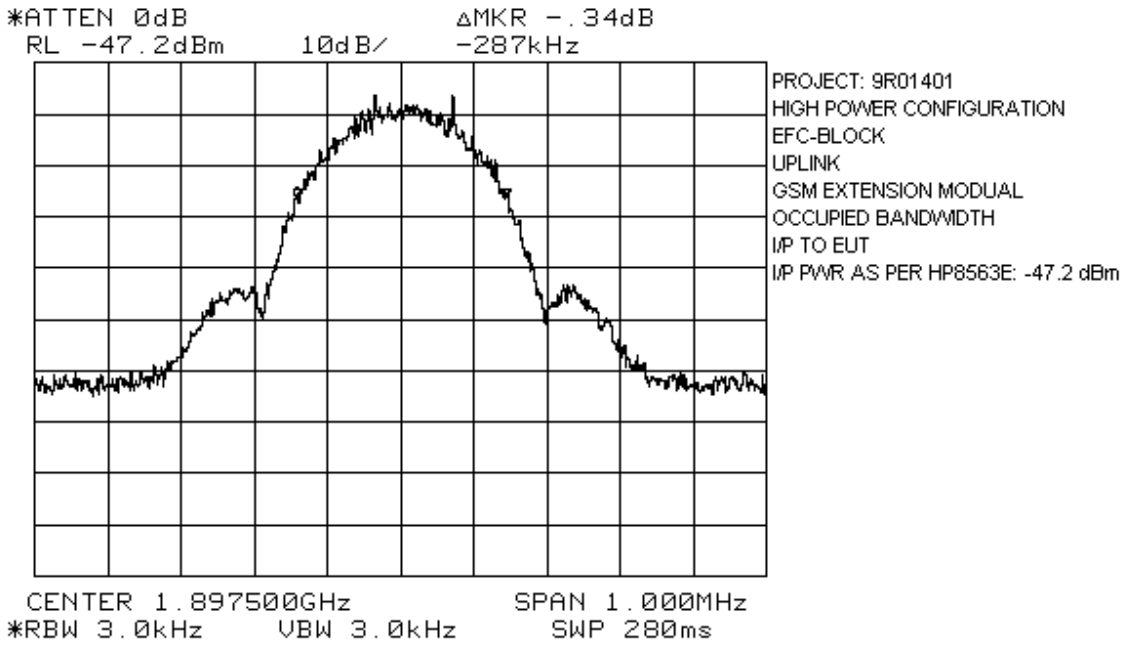

*ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR -.17dB
280kHz
R
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
UPLINK
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.897500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

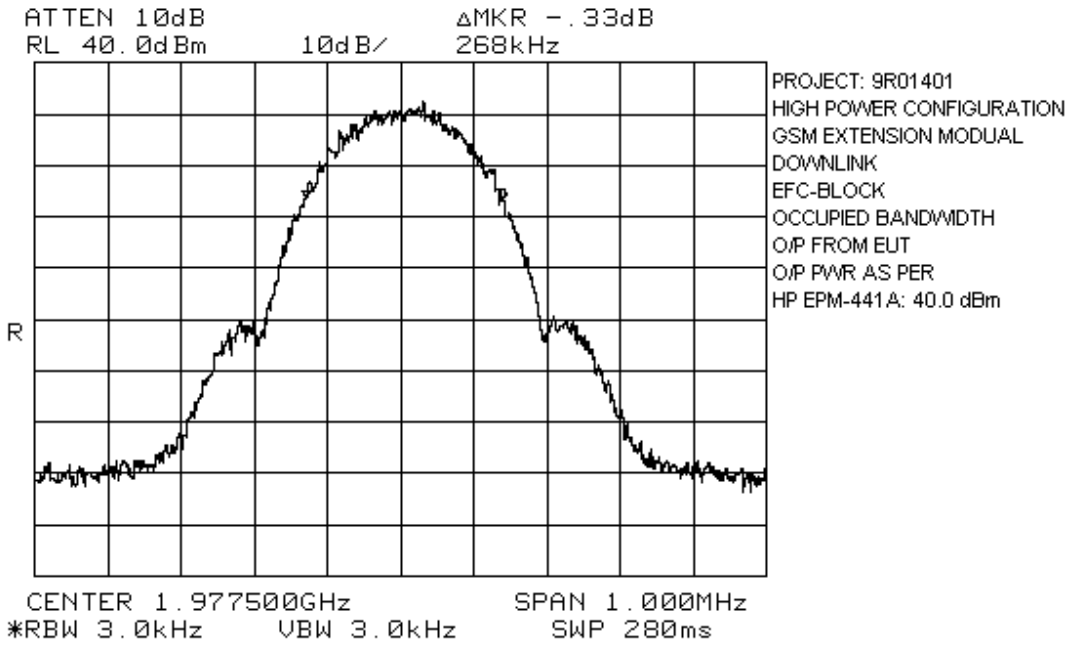

*ATTEN 0dB
RL -50.0dBm
10dB/
ΔMKR .16dB
-280kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
UPLINK
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER HP8563E: -50.0 dBm
CENTER 1.897500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

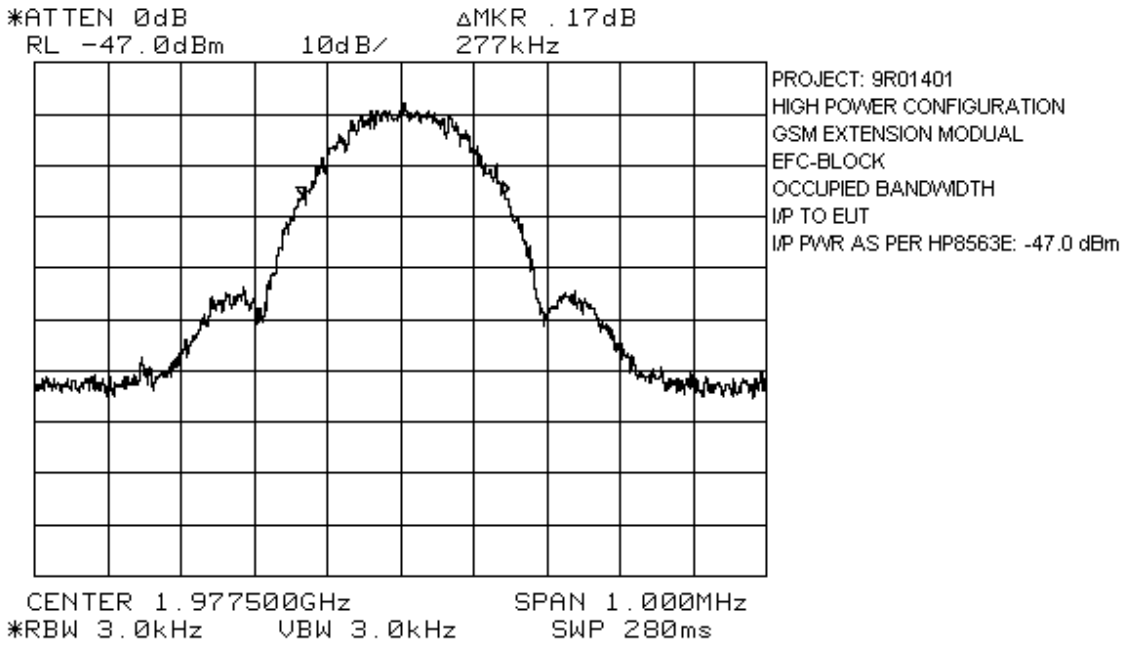

*ATTEN 0dB
RL 40.0dBm
10dB/
ΔMKR .17dB
-288kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.977500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms


*ATTEN 0dB
RL -44.0dBm
10dB/
ΔMKR .34dB
292kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER HP8563E: -44.0 dBm
CENTER 1.977500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms


ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR .33dB
268kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
GSM EXTENSION MODUAL
UPLINK
OCCUPIED BANDWIDTH
OUTPUT FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.897500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms


*ATTEN 0dB
ΔMKR -.34dB
RL -47.2dBm
10dB/
-287kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
UPLINK
GSM EXTENSION MODUAL
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER HP8563E: -47.2 dBm
CENTER 1.897500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms


ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR -.33dB
268kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
GSM EXTENSION MODUAL
DOWNLINK
EFC-BLOCK
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.977500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

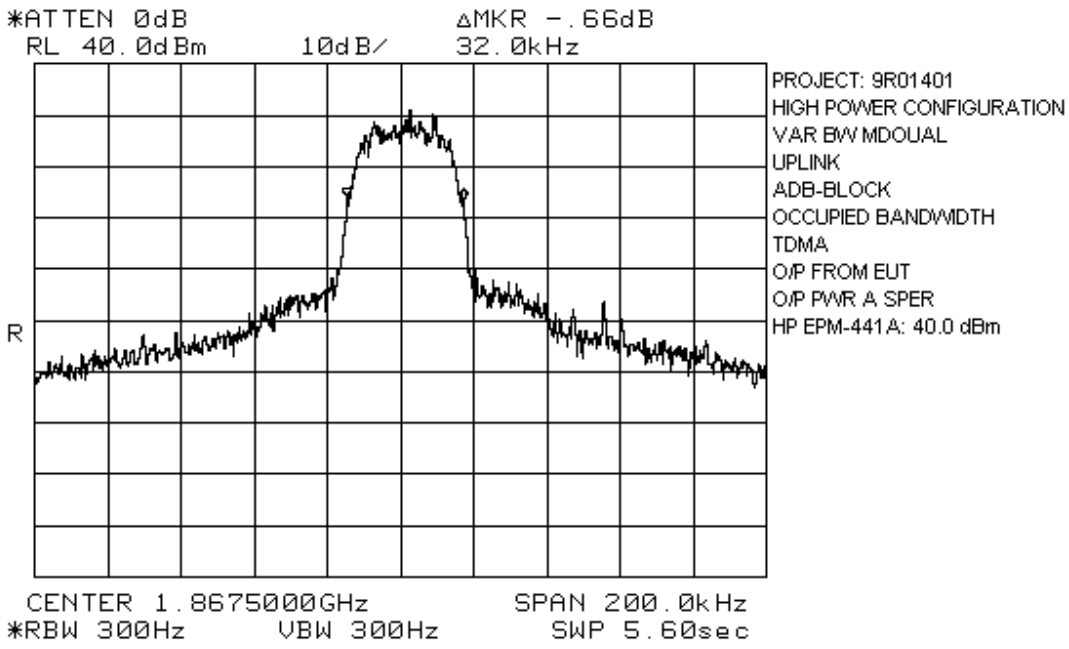

*ATTEN 0dB
ΔMKR .17dB
RL -47.0dBm
10dB/
277kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
GSM EXTENSION MODUAL
EFC-BLOCK
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER HP8563E: -47.0 dBm
CENTER 1.977500GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

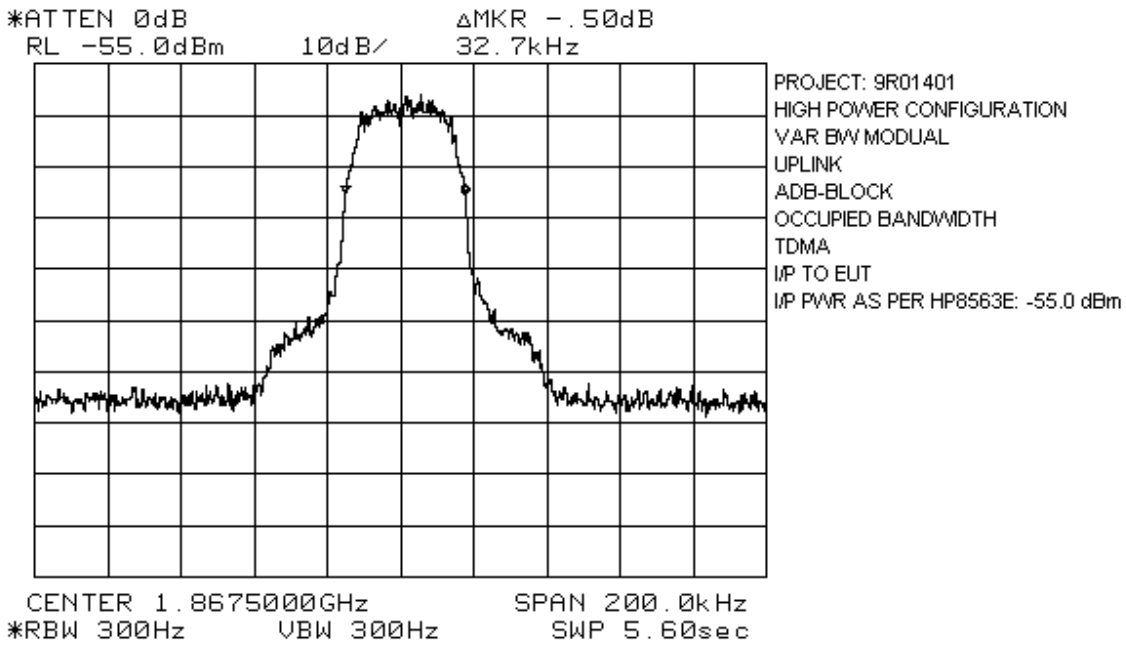
NAME OF TEST: Occupied Bandwidth (TDMA)	PARA. NO.: 2.917(c)
TESTED BY: Kevin Carr	DATE: August 16, 1999

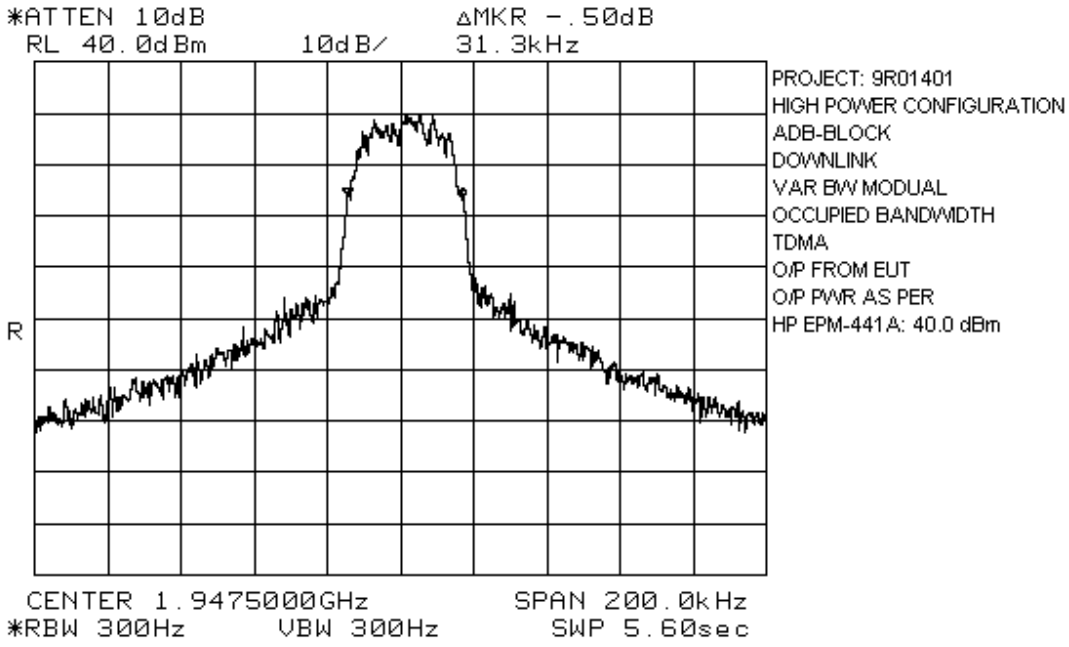
Test Results: Complies.

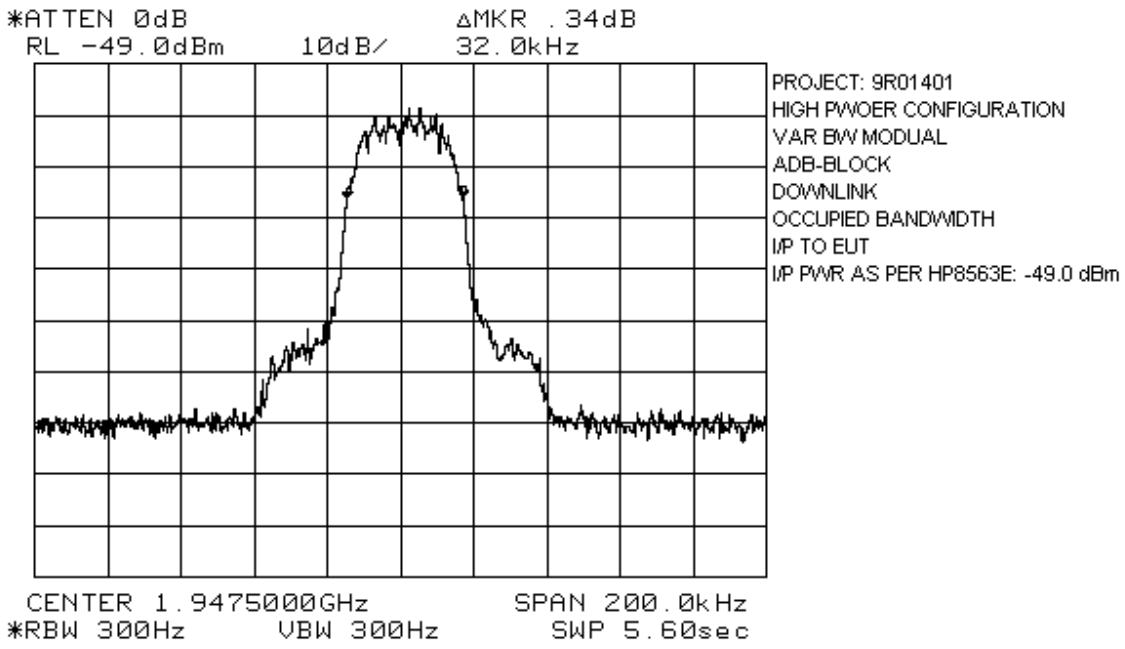
Test Data: See attached graph(s).

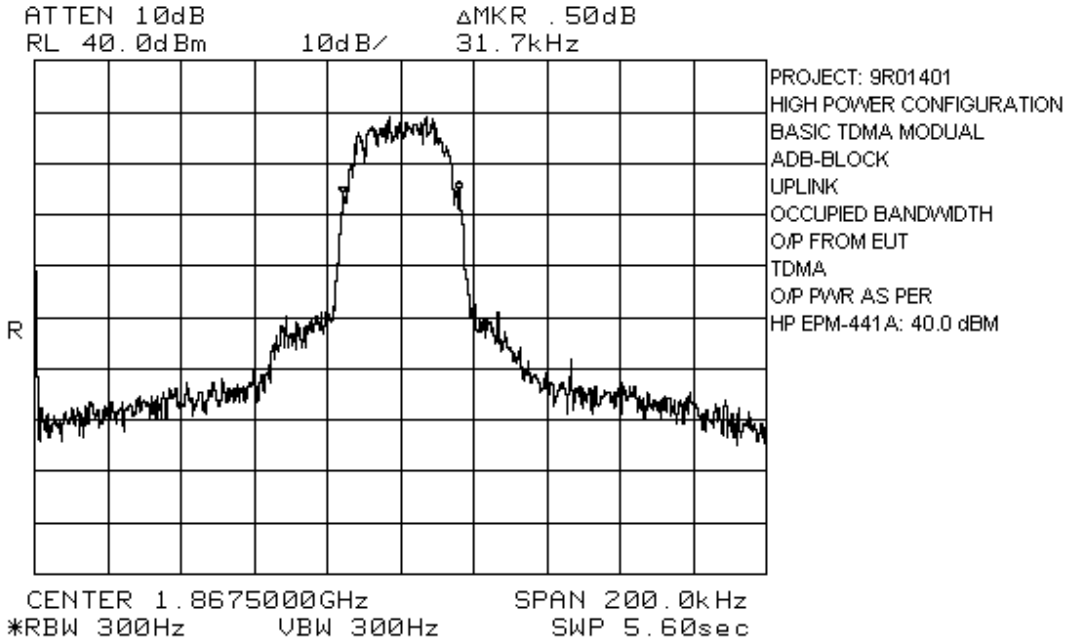
ADB - Block

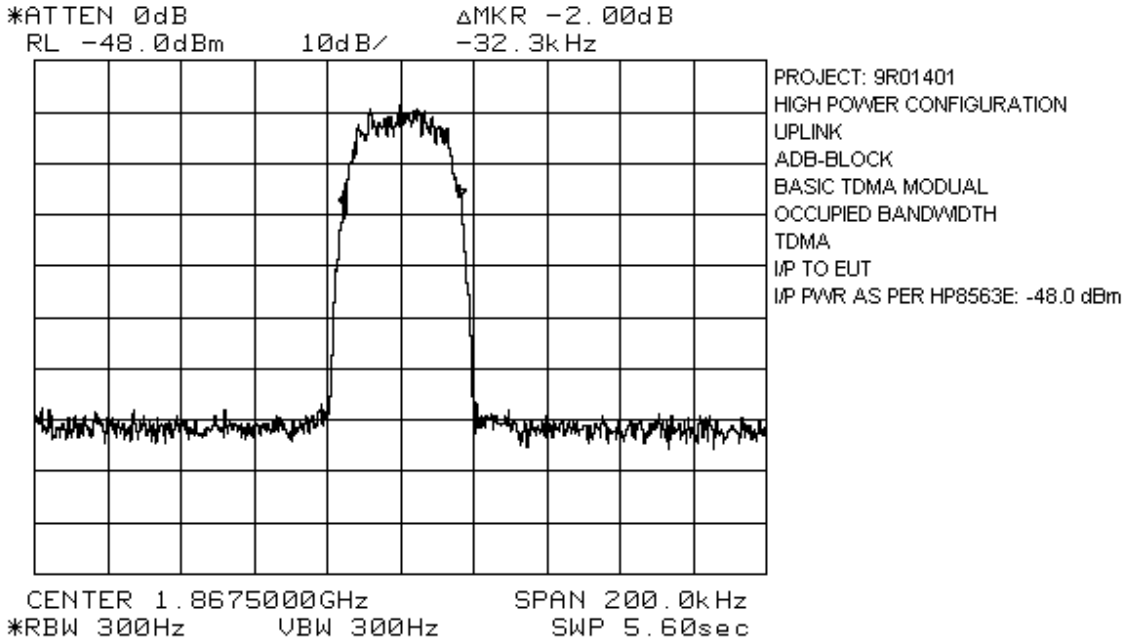

*ATTEN 0dB
RL 40.0dBm
10dB/
ΔMKR -.66dB
32.0kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MDOUAL
UPLINK
ADB-BLOCK
OCCUPIED BANDWIDTH
TDMA
O/P FROM EUT
O/P PWR A SPER
HP EPM-441A: 40.0 dBm
CENTER 1.8675000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

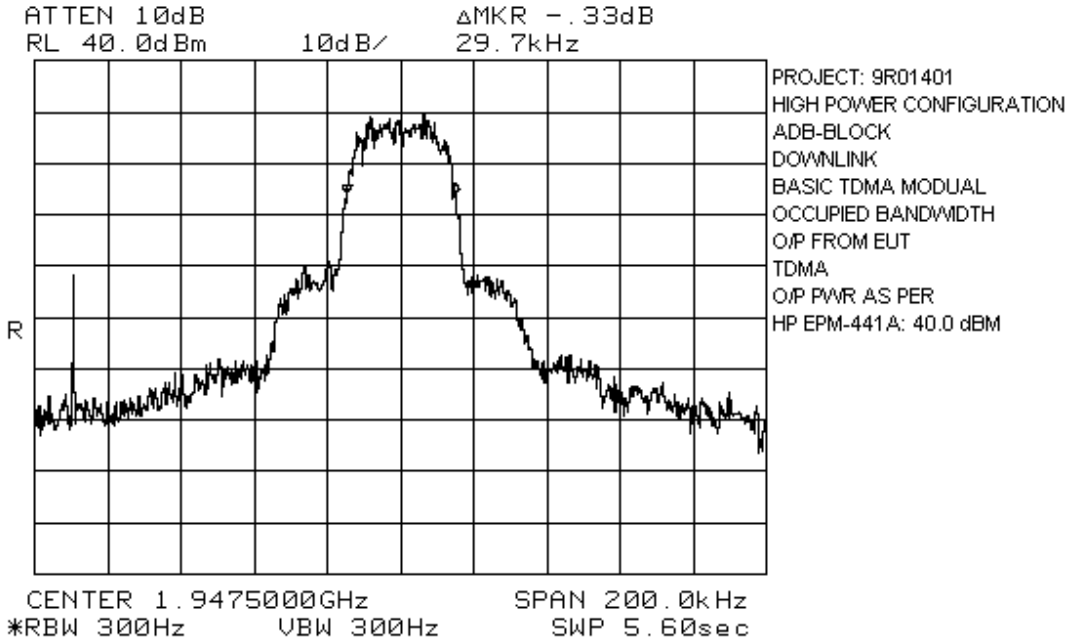

*ATTEN 0dB
ΔMKR -.50dB
RL -55.0dBm
10dB/
32.7kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
ADB-BLOCK
OCCUPIED BANDWIDTH
TDMA
I/P TO EUT
I/P PWR AS PER HP8563E: -55.0 dBm
CENTER 1.8675000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

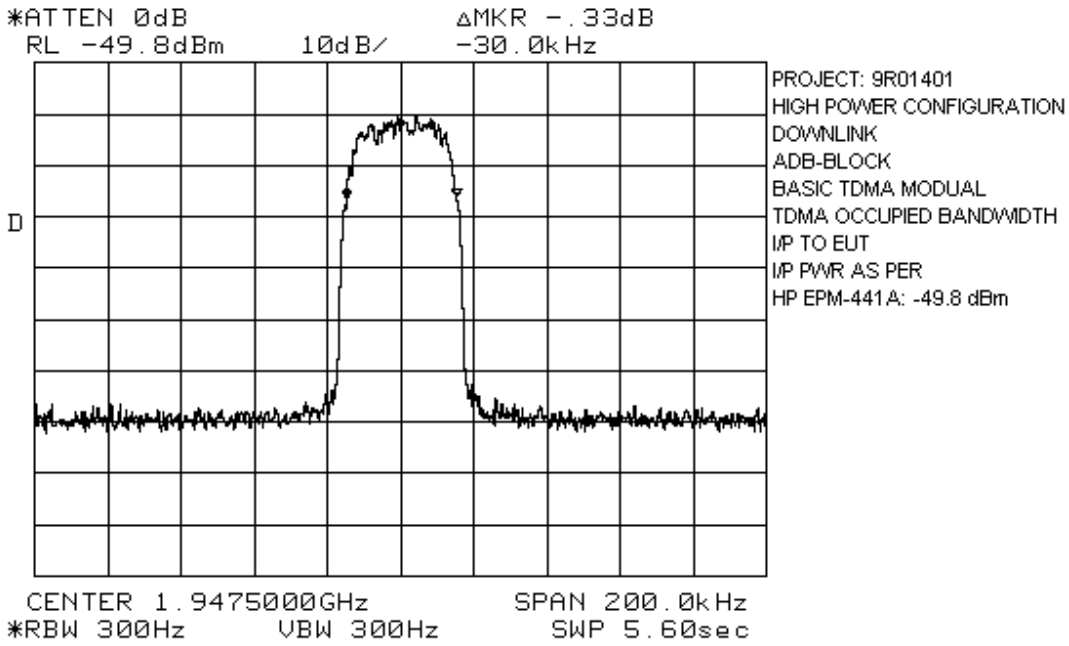

*ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR -.50dB
31.3kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
VAR BW MODUAL
OCCUPIED BANDWIDTH
TDMA
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.9475000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec


*ATTEN 0dB
ΔMKR .34dB
RL -49.0dBm
10dB/
32.0kHz
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
DOWNLINK
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER HP8563E: -49.0 dBm
CENTER 1.9475000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

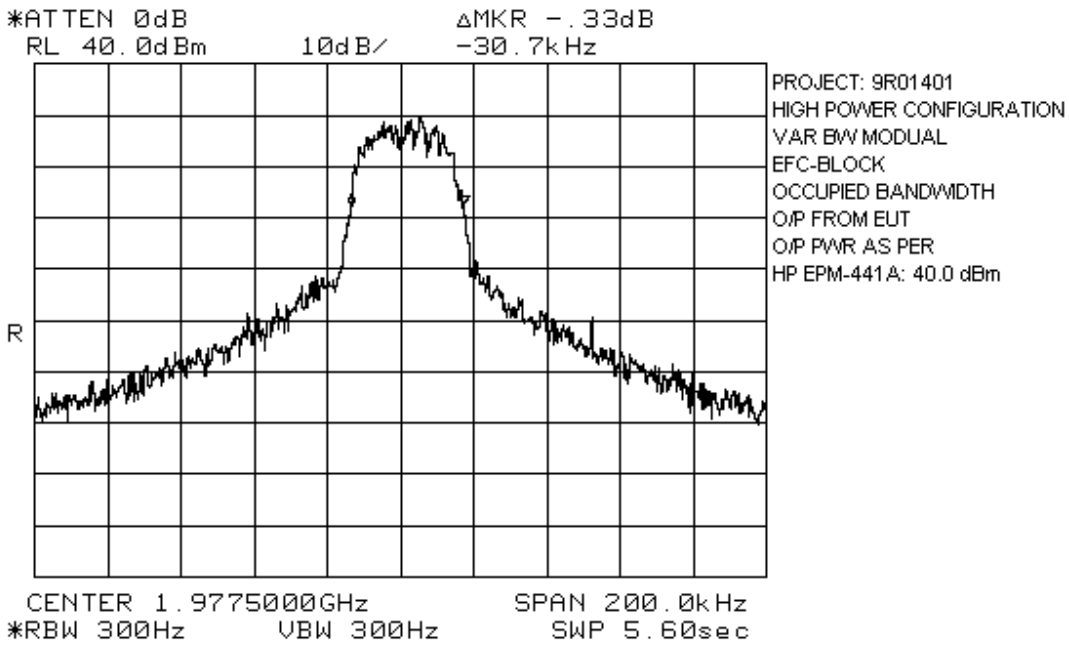

ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR .50dB
31.7kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
BASIC TDMA MODUAL
ADB-BLOCK
UPLINK
OCCUPIED BANDWIDTH
O/P FROM EUT
TDMA
O/P PWR AS PER
HP EPM-441A: 40.0 dBM
CENTER 1.8675000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

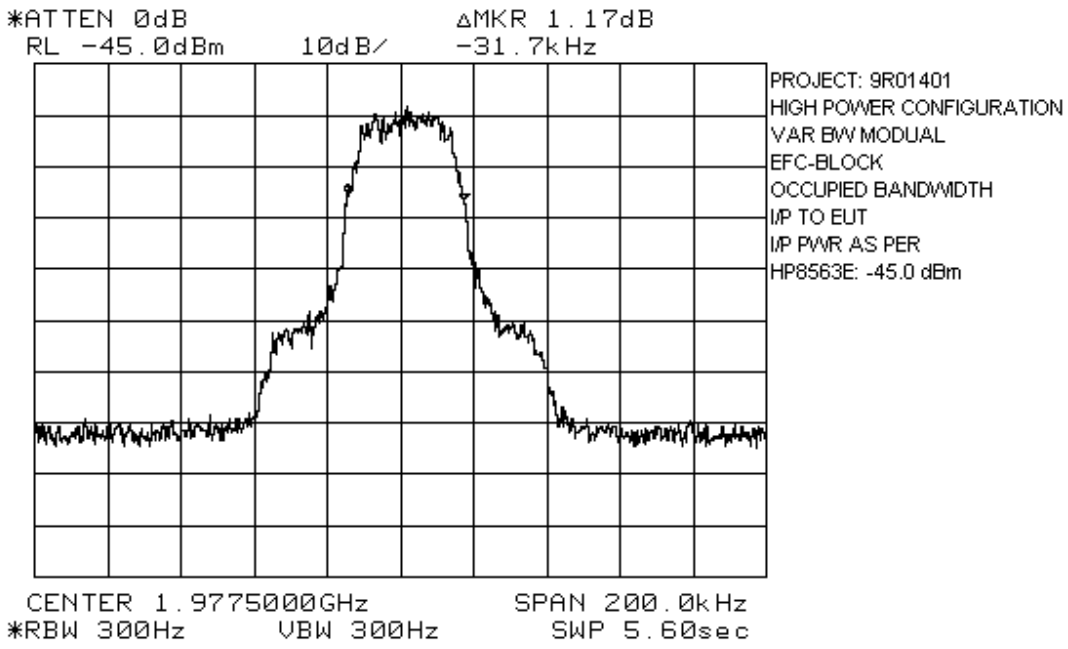

*ATTEN 0dB
ΔMKR -2.00dB
RL -48.0dBm
10dB/
-32.3kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
UPLINK
ADB-BLOCK
BASIC TDMA MODUAL
OCCUPIED BANDWIDTH
TDMA
I/P TO EUT
I/P PWR AS PER HP8563E: -48.0 dBm
CENTER 1.8675000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

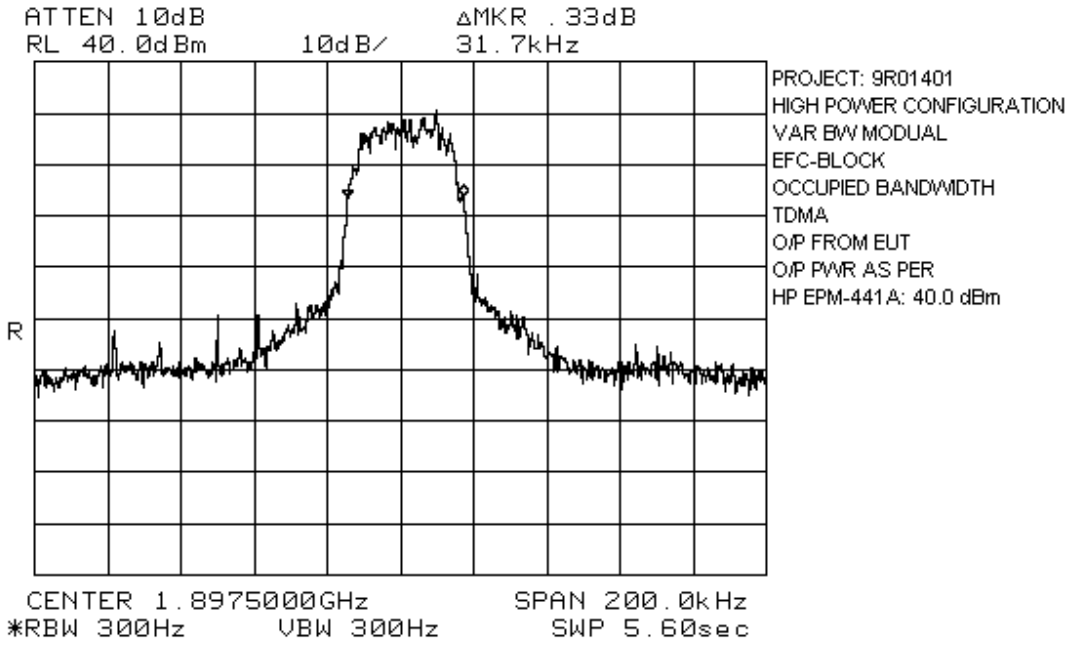

ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR -.33dB
29.7kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
BASIC TDMA MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
TDMA
O/P PWR AS PER
HP EPM-441A: 40.0 dBM
CENTER 1.9475000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

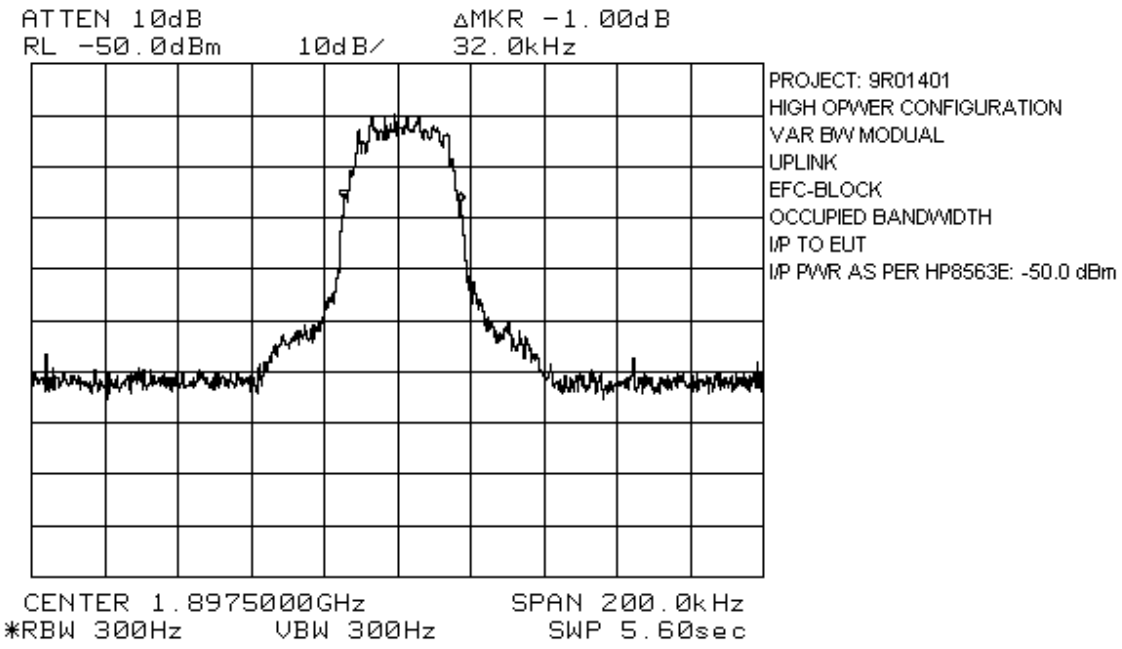

*ATTEN 0dB
ΔMKR -.33dB
RL -49.8dBm
10dB/
-30.0kHz
D
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
ADB-BLOCK
BASIC TDMA MODUAL
TDMA OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER
HP EPM-441A: -49.8 dBm
CENTER 1.9475000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

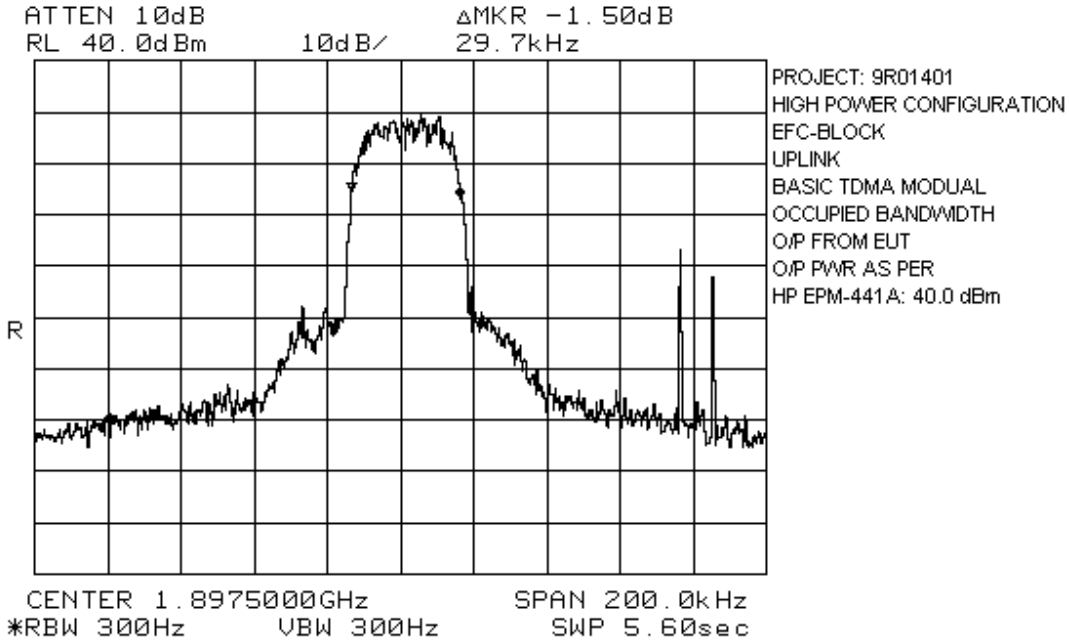
EFC - Block

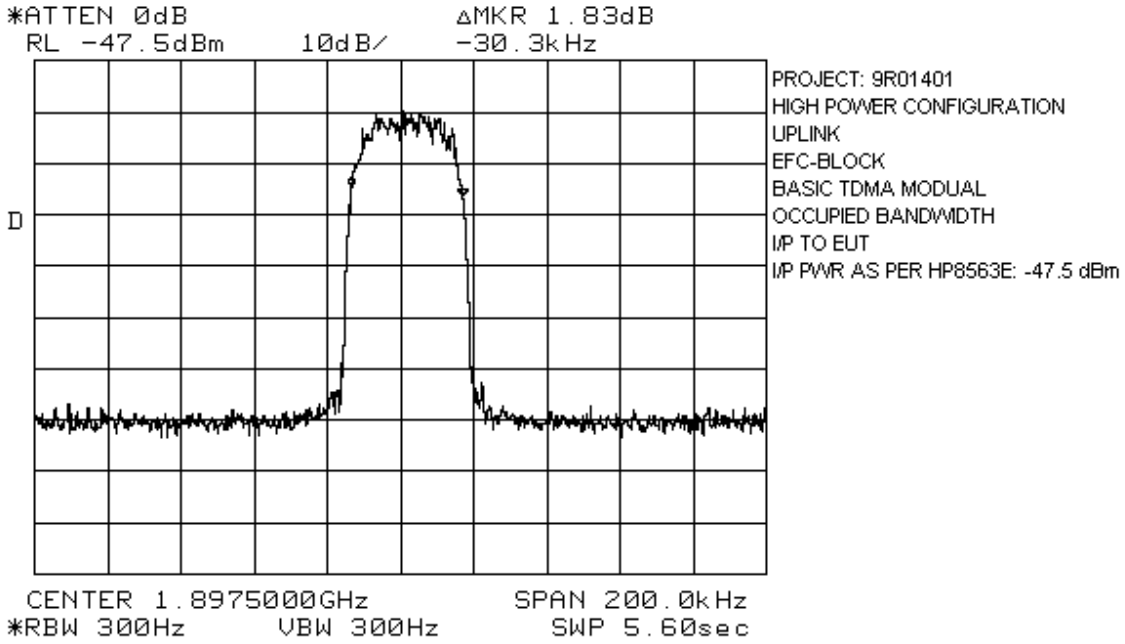

*ATTEN 0dB
RL 40.0dBm
10dB/
ΔMKR -.33dB
-30.7kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.9775000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

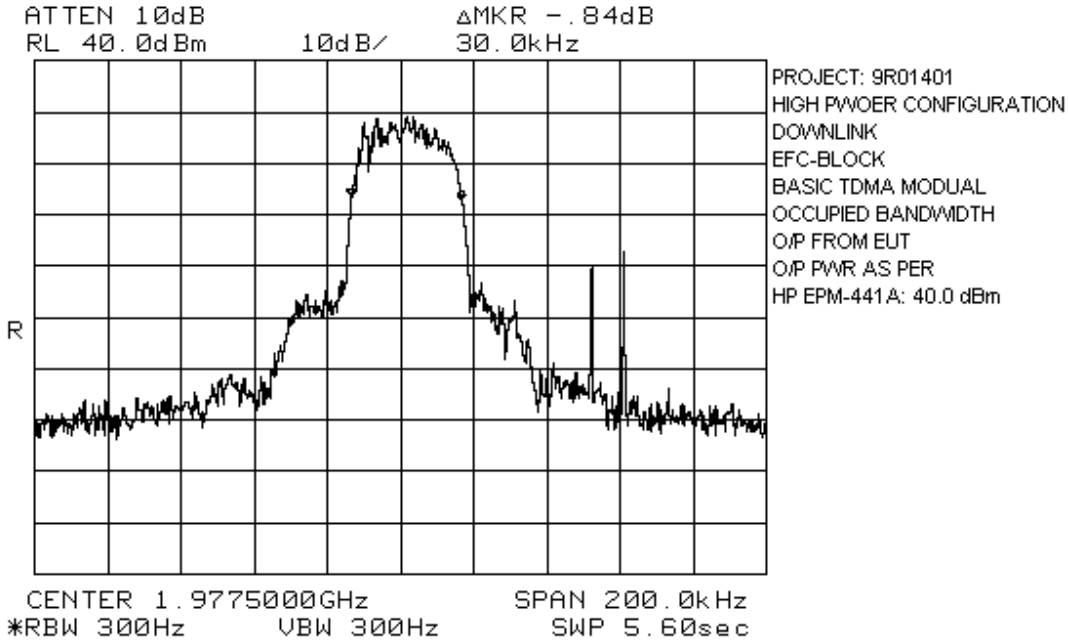

*ATTEN 0dB
RL -45.0dBm
10dB/
ΔMKR 1.17dB
-31.7kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER
HP8563E: -45.0 dBm
CENTER 1.9775000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

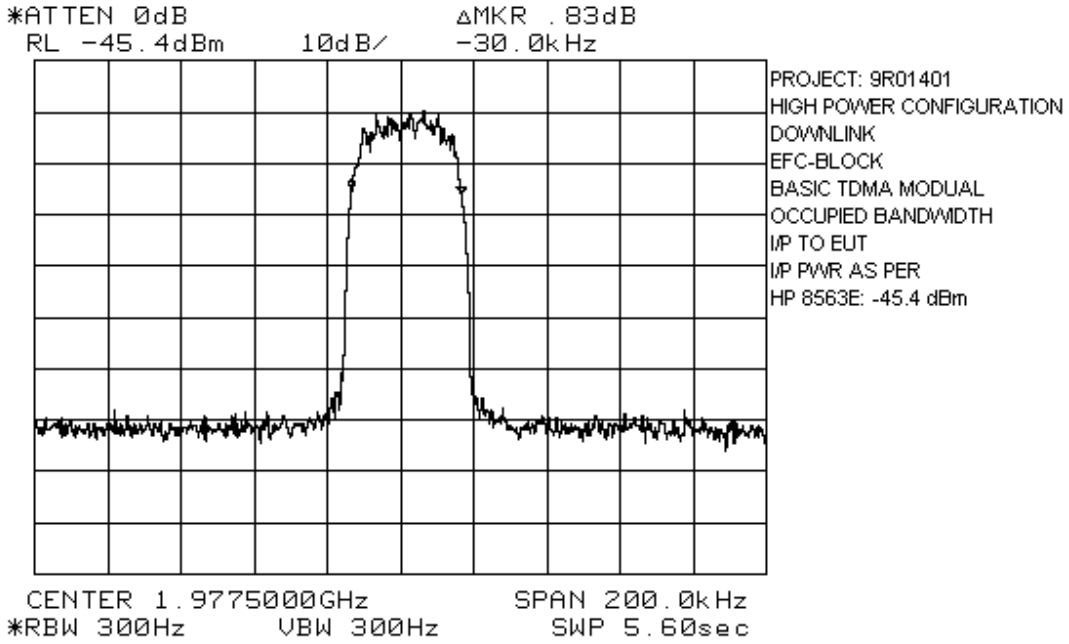

ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR .33dB
31.7kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
OCCUPIED BANDWIDTH
TDMA
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.8975000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec


ATTEN 10dB
RL -50.0dBm
10dB/
ΔMKR -1.00dB
32.0kHz
PROJECT: 9R01401
HIGH OPWER CONFIGURATION
VAR BW MODUAL
UPLINK
EFC-BLOCK
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER HP8563E: -50.0 dBm
CENTER 1.8975000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec


ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR -1.50dB
29.7kHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
UPLINK
BASIC TDMA MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.8975000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec


*ATTEN 0dB
ΔMKR 1.83dB
RL -47.5dBm
10dB/
-30.3kHz
D
PROJECT: 9R01401
HIGH POWER CONFIGURATION
UPLINK
EFC-BLOCK
BASIC TDMA MODUAL
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER HP8563E: -47.5 dBm
CENTER 1.8975000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec


ATTEN 10dB
RL 40.0dBm
10dB/
ΔMKR -.84dB
30.0kHz
R
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
DOWNLINK
EFC-BLOCK
BASIC TDMA MODUAL
OCCUPIED BANDWIDTH
O/P FROM EUT
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
CENTER 1.9775000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec


*ATTEN 0dB
ΔMKR .83dB
RL -45.4dBm
10dB/
-30.0kHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
EFC-BLOCK
BASIC TDMA MODUAL
OCCUPIED BANDWIDTH
I/P TO EUT
I/P PWR AS PER
HP 8563E: -45.4 dBm
CENTER 1.9775000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

Section 5. Spurious Emissions at Antenna Terminals

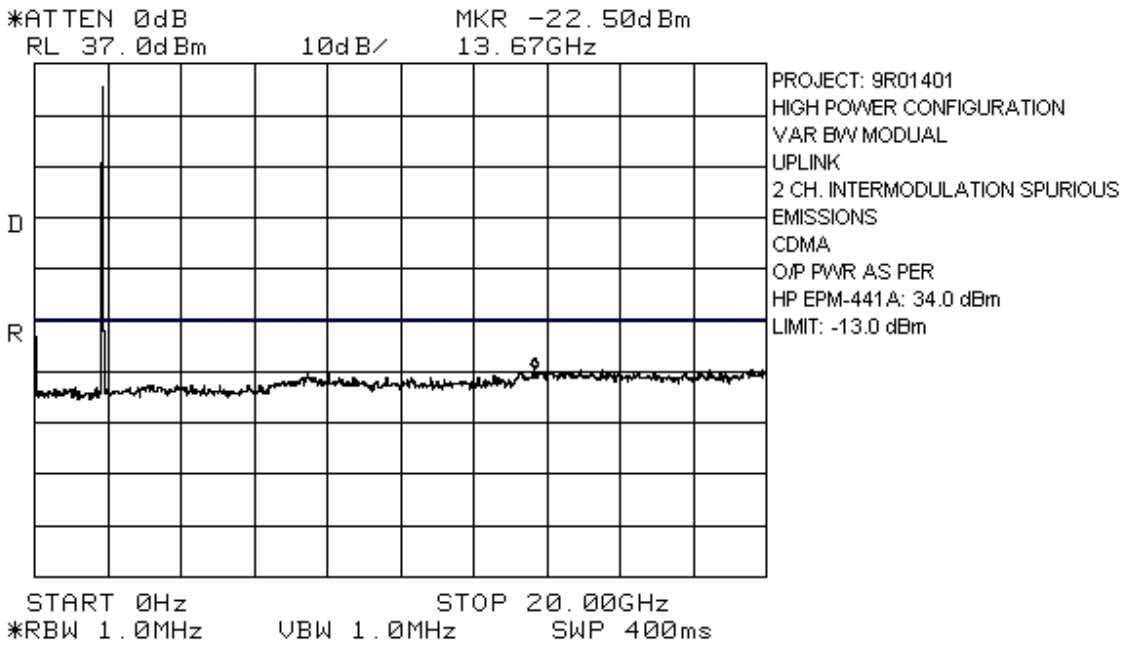
NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.917(e)
TESTED BY: Kevin Carr	DATE: August 16, 1999

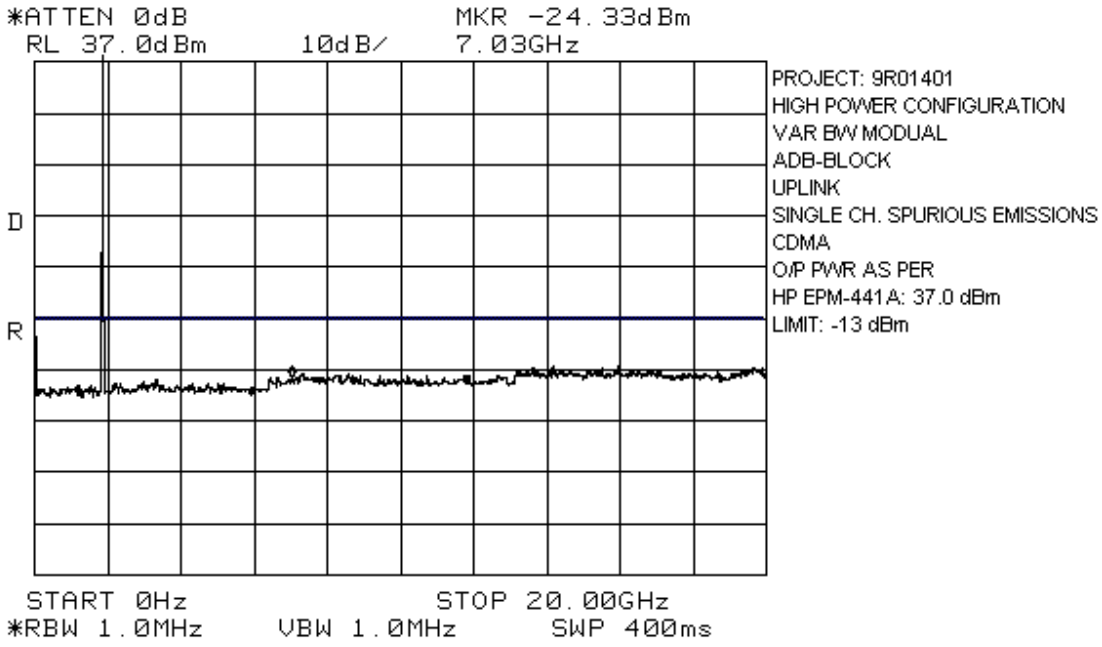
Test Results: Complies.

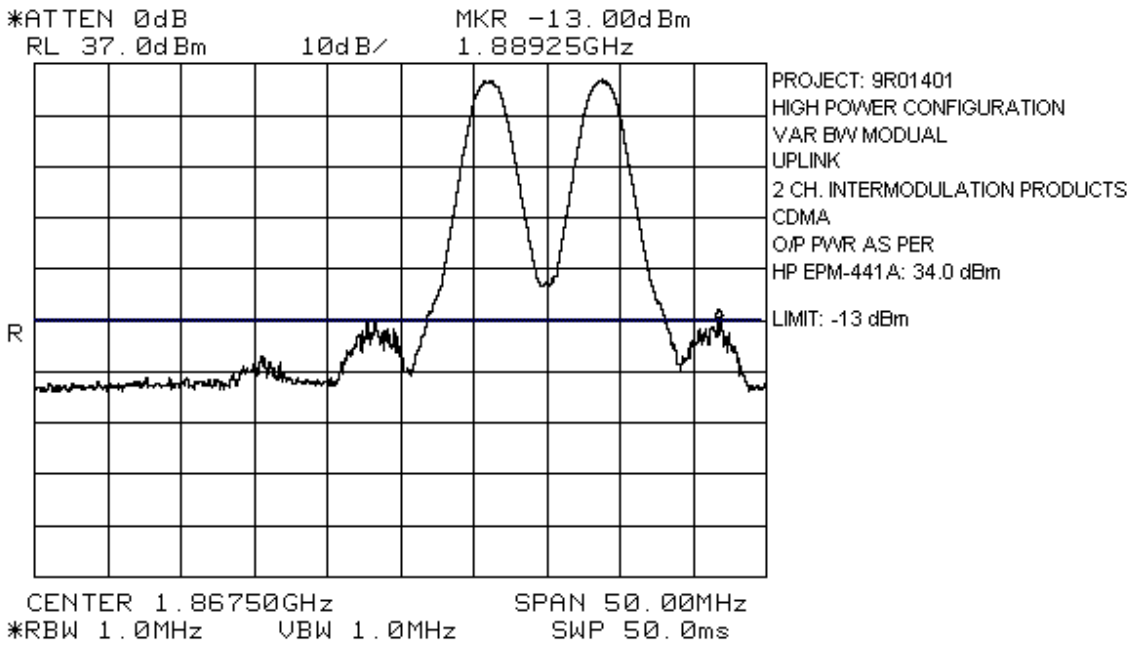
Test Data:

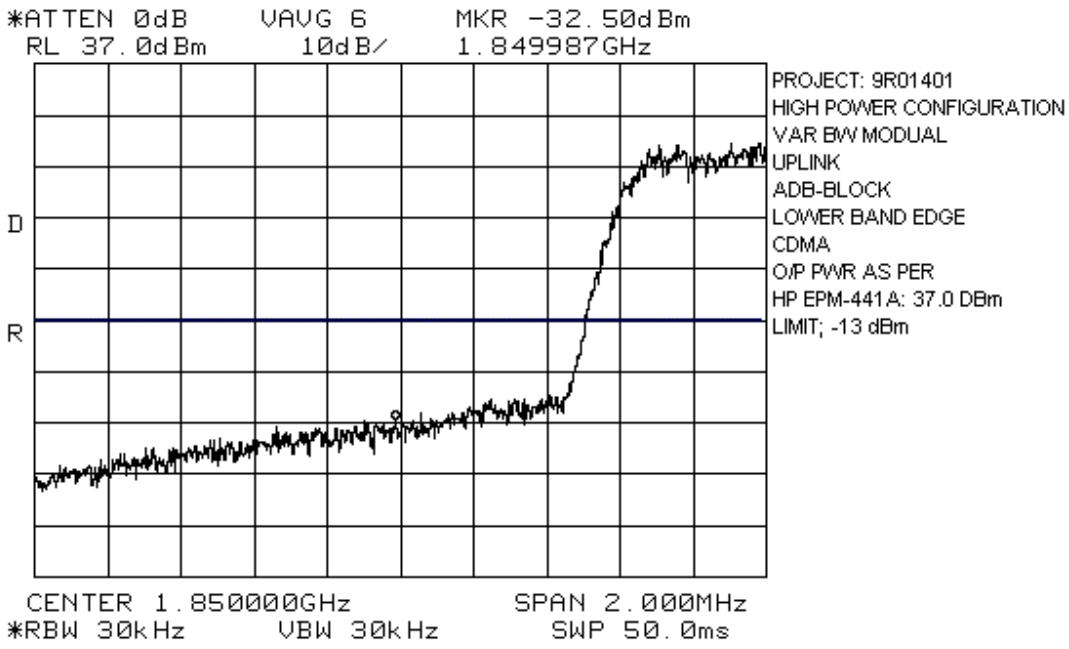
NAME OF TEST	WORST-CASE SPURIOUS LEVEL(dBm)
0 to 20 GHz spurious (Uplink)	-21.6
0 to 20 GHz spurious (Downlink)	-20.3
2 - signal intermodulation (Uplink)	-13.0
2 - signal intermodulation (Downlink)	-13.0
Lower band edge spurious (Uplink)	-13.0
Lower band edge spurious (Downlink)	-13.0
Upper band edge spurious (Uplink)	-13.0
Upper band edge spurious (Downlink)	-13.0

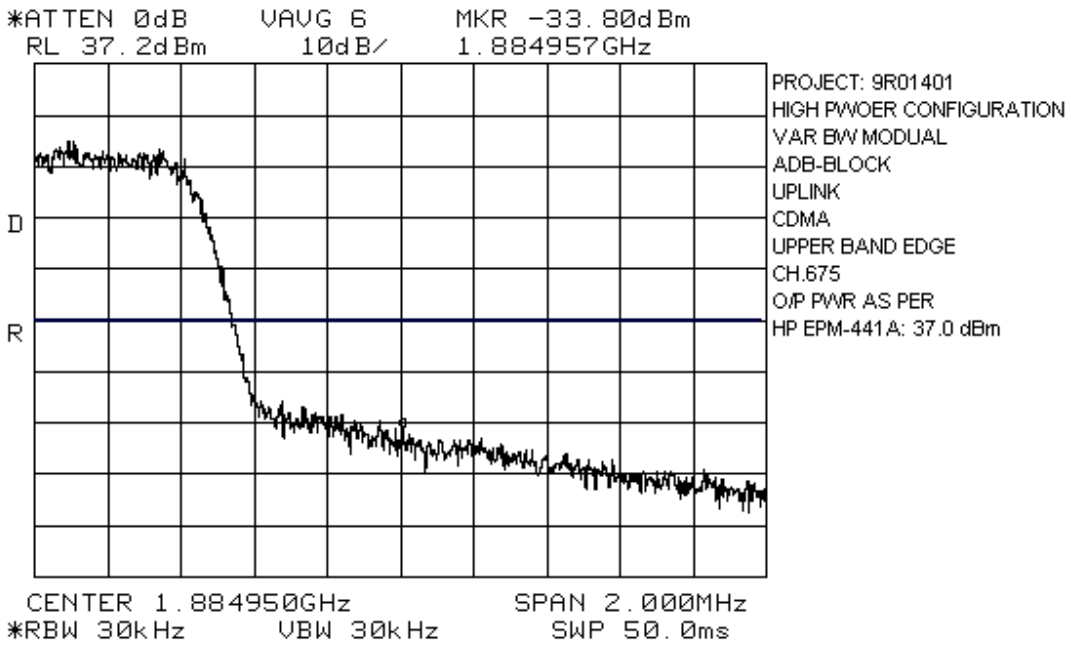
Variable Bandwidth Module – ADB Block

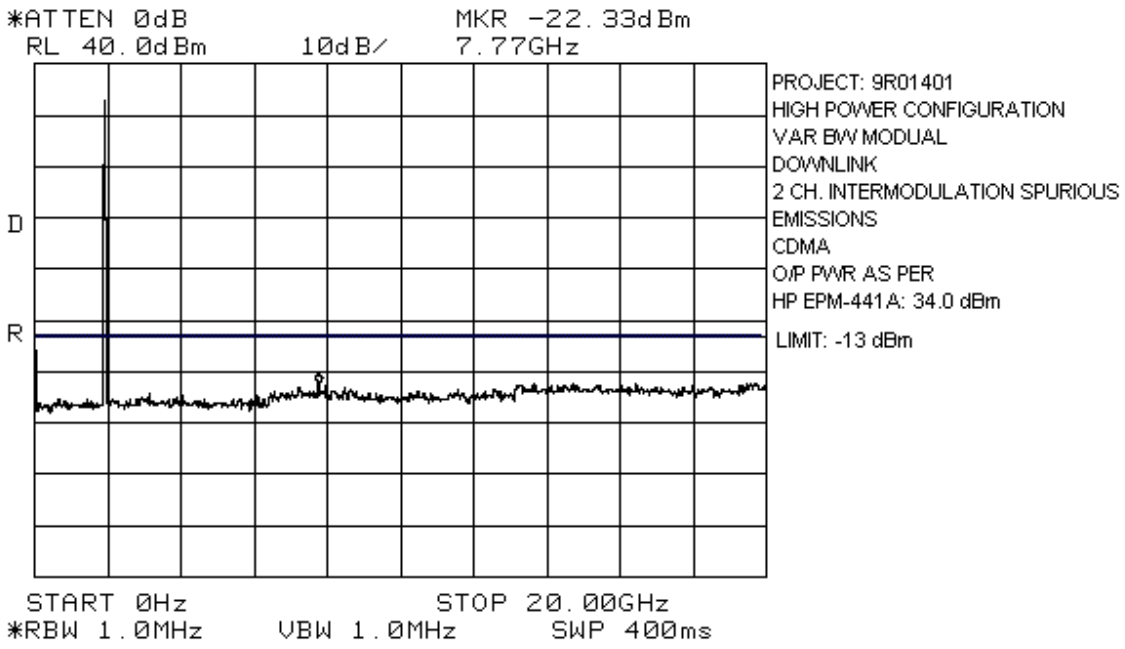

*ATTEN 0dB
MKR -22.50dBm
RL 37.0dBm
10dB/
13.67GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
2 CH. INTERMODULATION SPURIOUS
EMISSIONS
CDMA
O/P PWR AS PER
HP EPM-441A: 34.0 dBm
LIMIT: -13.0 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

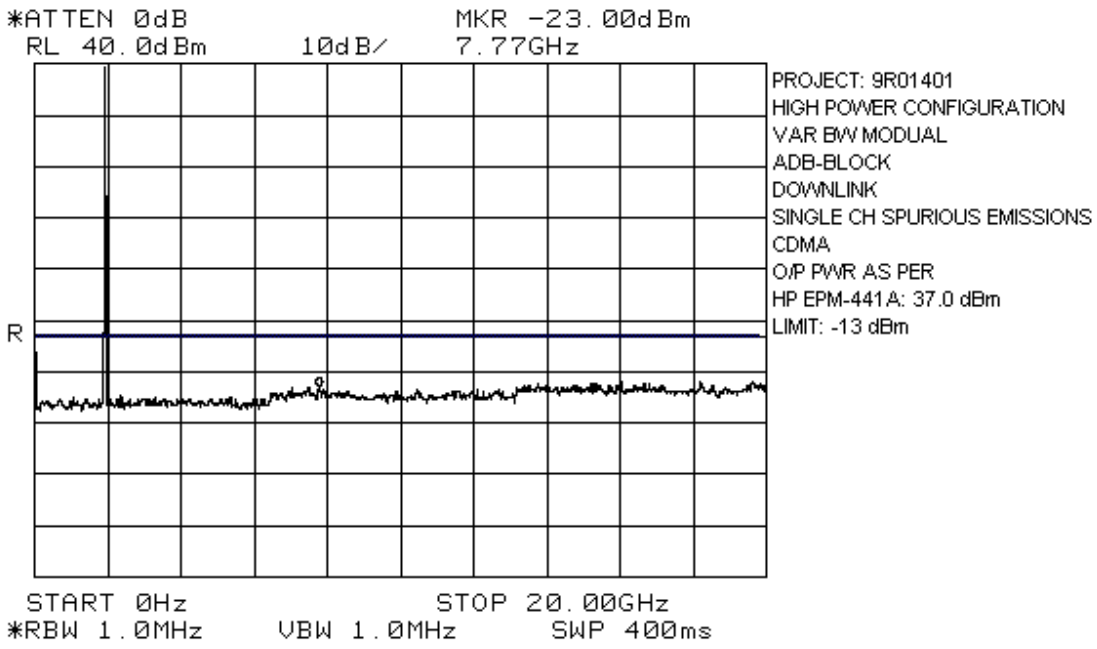

*ATTEN 0dB
MKR -24.33dBm
RL 37.0dBm
10dB/
7.03GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
UPLINK
SINGLE CH. SPURIOUS EMISSIONS
CDMA
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

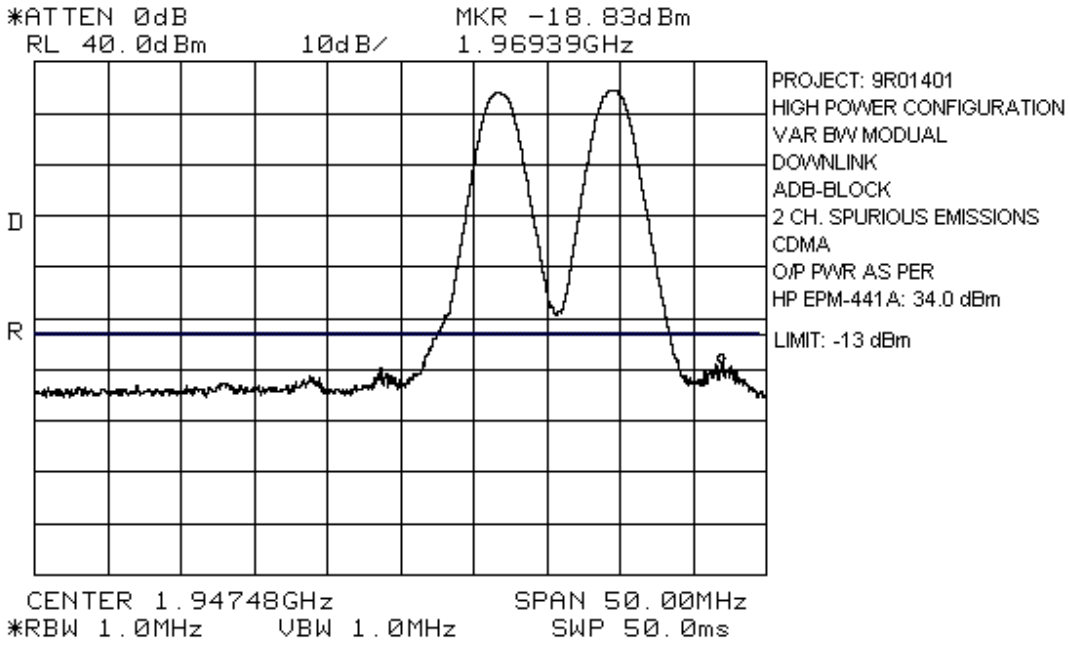

*ATTEN 0dB
MKR -13.00dBm
RL 37.0dBm
10dB/
1.88925GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
2 CH. INTERMODULATION PRODUCTS
CDMA
O/P PWR AS PER
HP EPM-441A: 34.0 dBm
LIMIT: -13 dBm
R
CENTER 1.86750GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

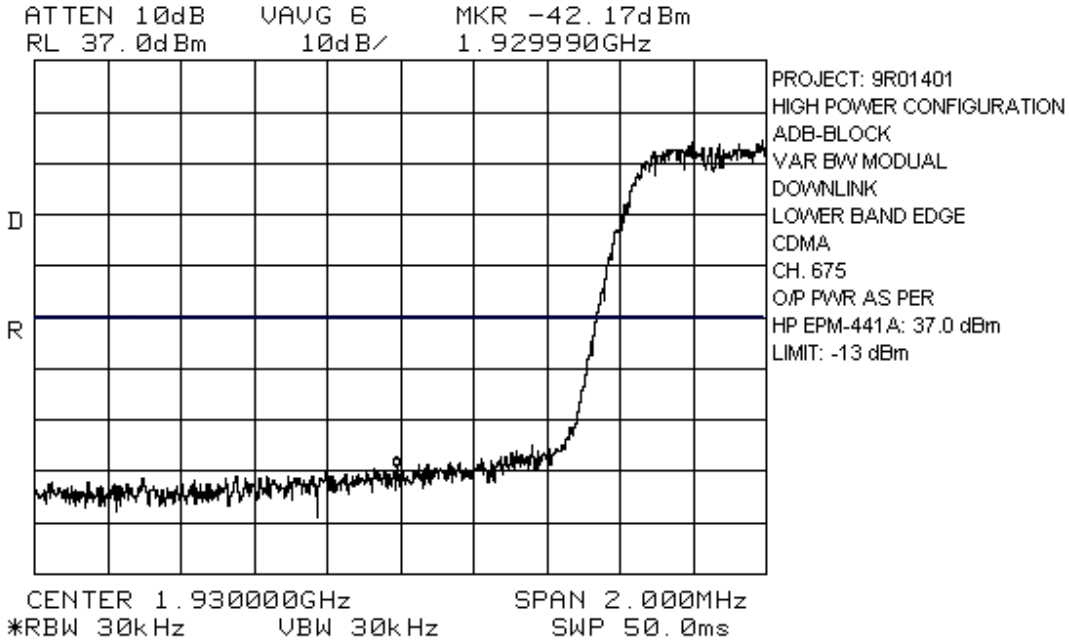

*ATTEN 0dB
VAVG 6
MKR -32.50dBm
RL 37.0dBm
10dB/
1.849987GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
ADB-BLOCK
LOWER BAND EDGE
CDMA
O/P PWR AS PER
HP EPM-441A: 37.0 DBm
LIMIT; -13 dBm
CENTER 1.850000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

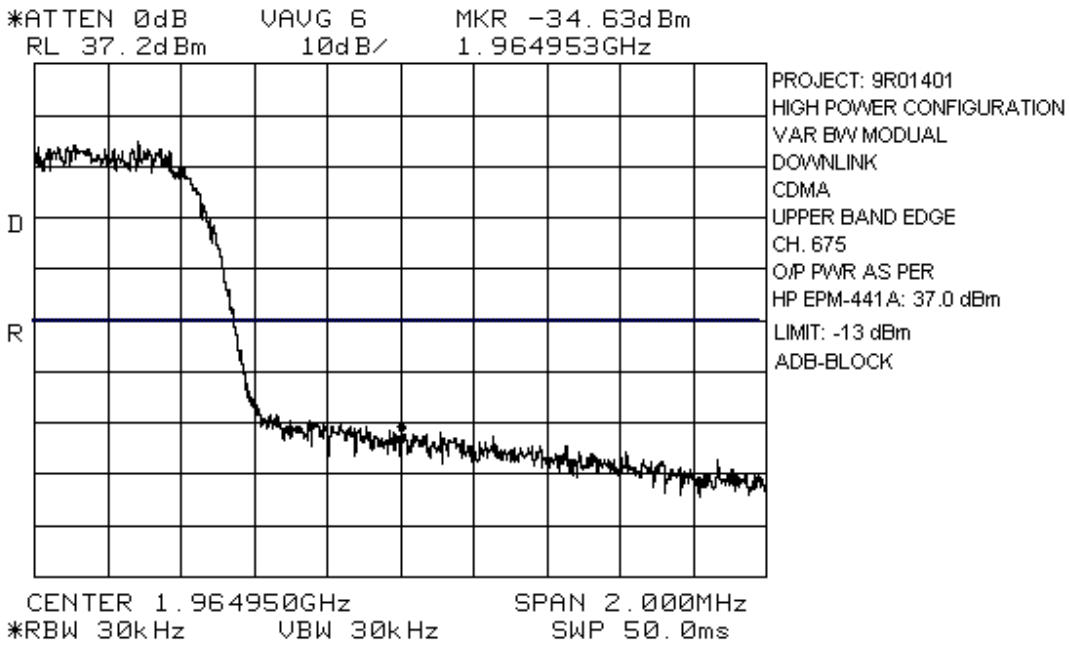

*ATTEN 0dB
VAVG 6
MKR -33.80dBm
RL 37.2dBm
10dB/
1.884957GHz
D
R
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
UPLINK
CDMA
UPPER BAND EDGE
CH.675
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.884950GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

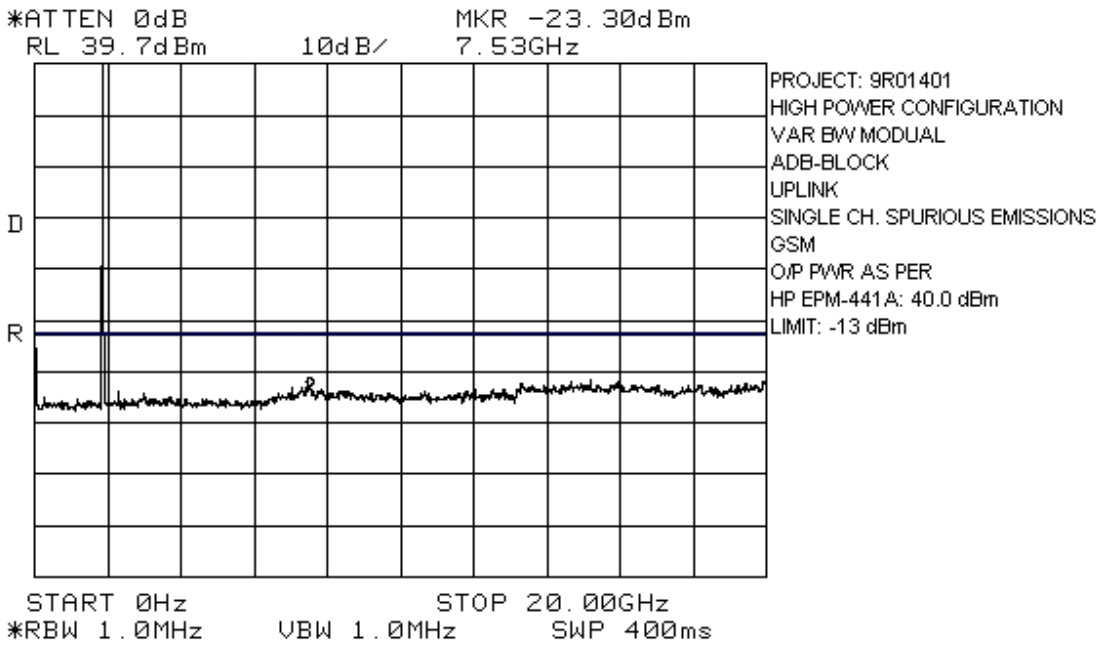

*ATTEN 0dB
MKR -22.33dBm
RL 40.0dBm
10dB/
7.77GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
DOWNLINK
2 CH. INTERMODULATION SPURIOUS
EMISSIONS
CDMA
O/P PWR AS PER
HP EPM-441A: 34.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

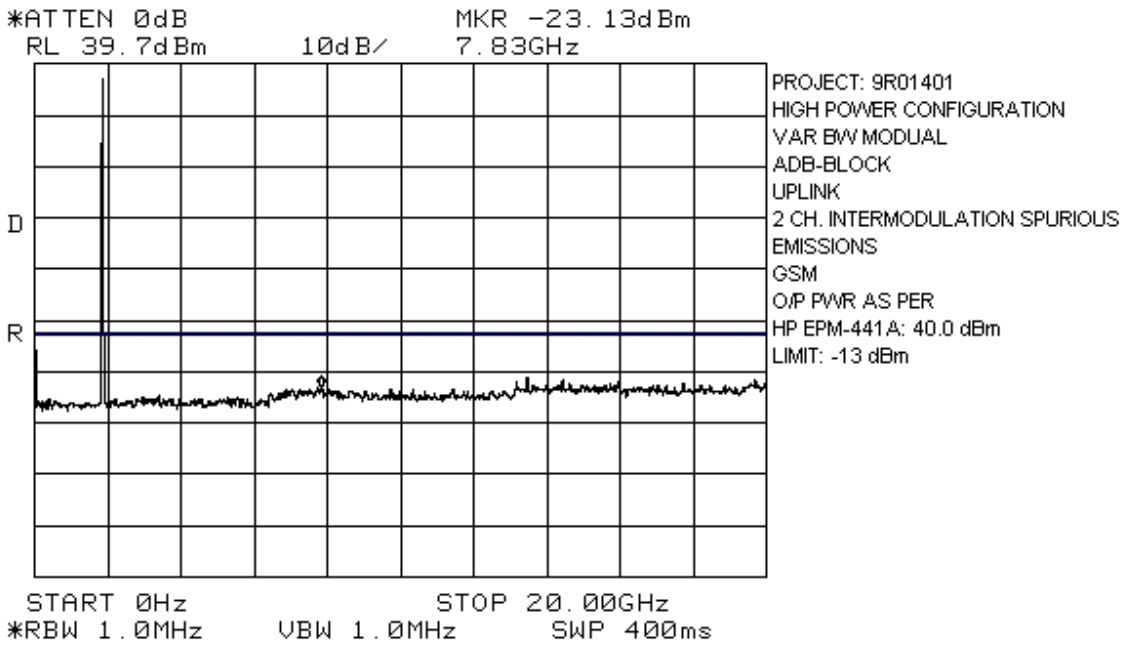

*ATTEN 0dB
MKR -23.00dBm
RL 40.0dBm
10dB/
7.77GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
DOWNLINK
SINGLE CH SPURIOUS EMISSIONS
CDMA
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

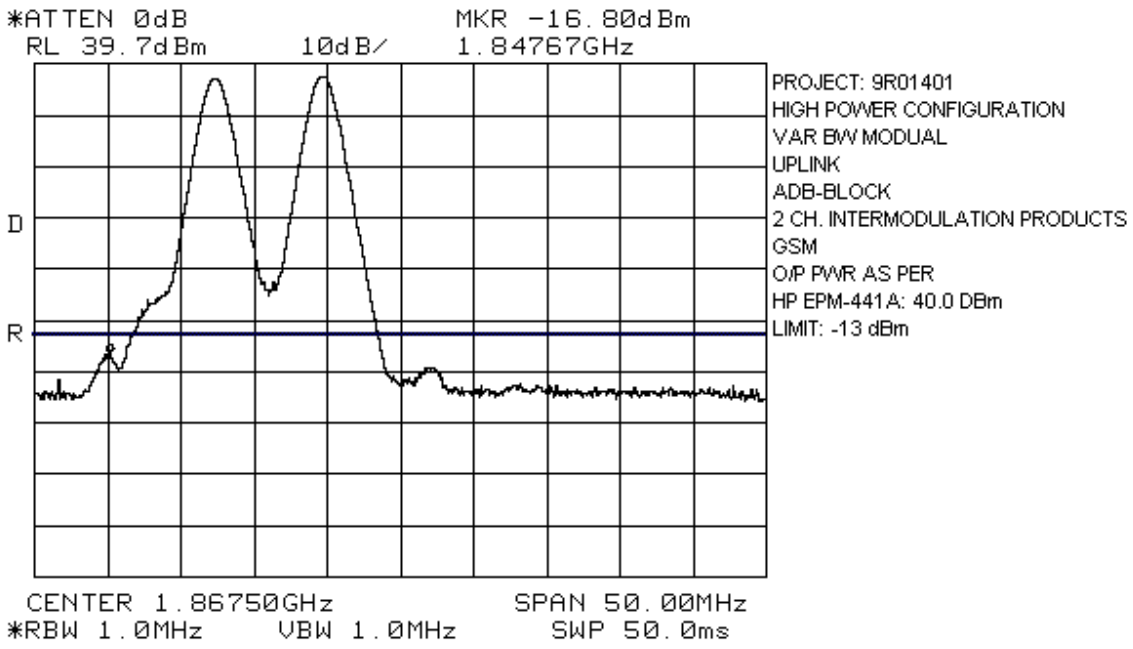

*ATTEN 0dB
MKR -18.83dBm
RL 40.0dBm
10dB/
1.96939GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
DOWNLINK
ADB-BLOCK
2 CH. SPURIOUS EMISSIONS
CDMA
O/P PWR AS PER
HP EPM-441A: 34.0 dBm
LIMIT: -13 dBm
CENTER 1.94748GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

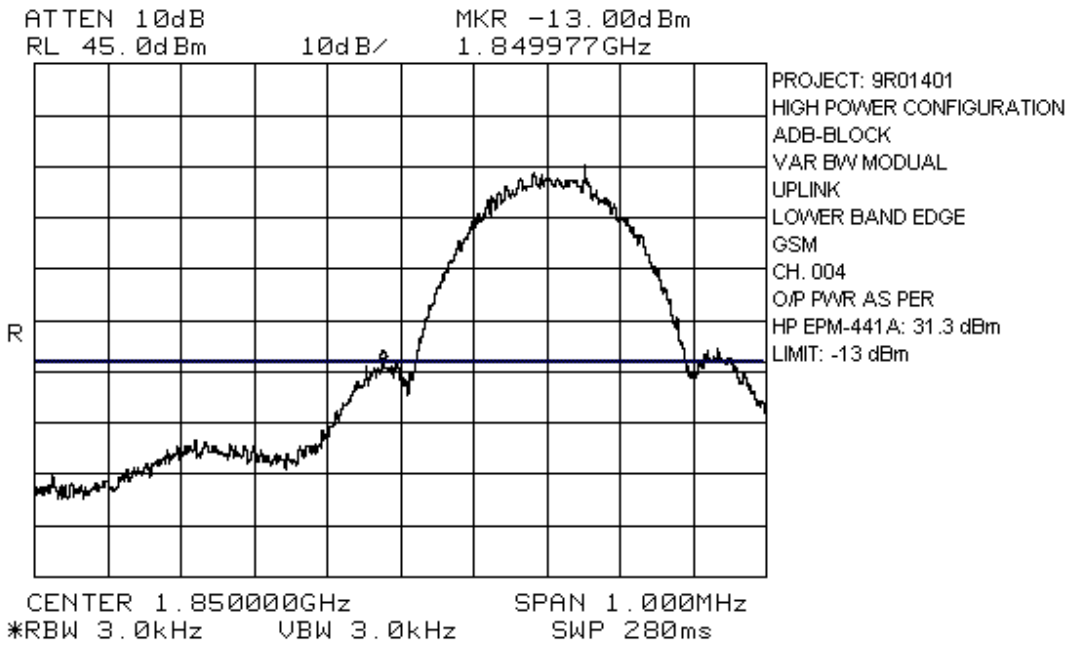

ATTEN 10dB
RL 37.0dBm
VAVG 6
10dB/
MKR -42.17dBm
1.929990GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
VAR BW MODUAL
DOWNLINK
LOWER BAND EDGE
CDMA
CH. 675
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.930000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

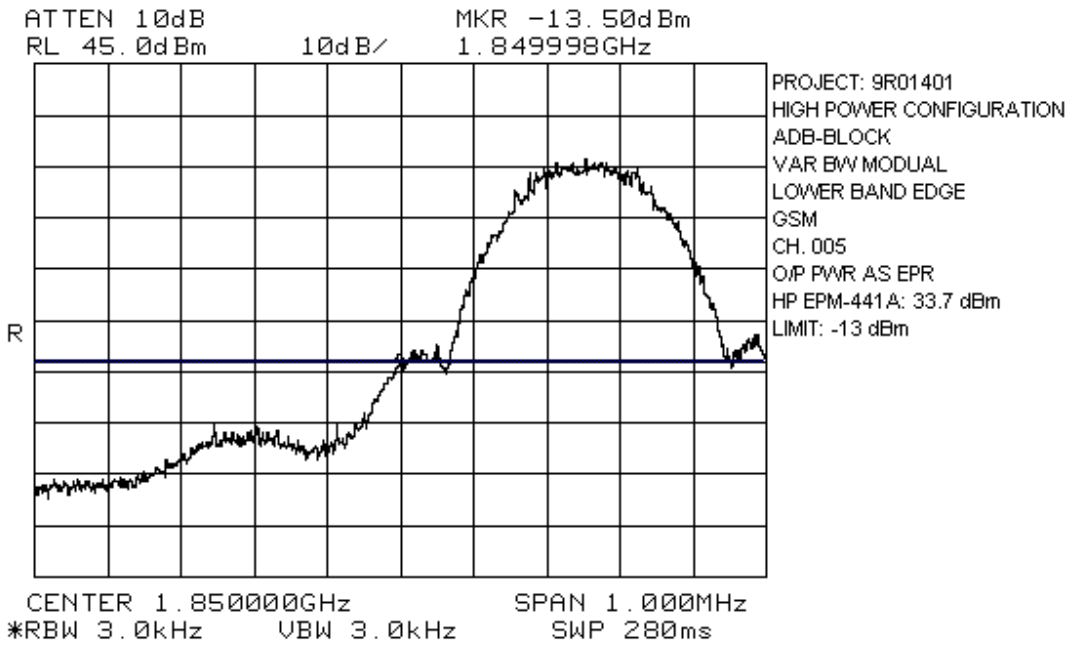

*ATTEN 0dB
VAVG 6
MKR -34.63dBm
RL 37.2dBm
10dB/
1.964953GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
DOWNLINK
CDMA
UPPER BAND EDGE
CH. 675
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
ADB-BLOCK
CENTER 1.964950GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

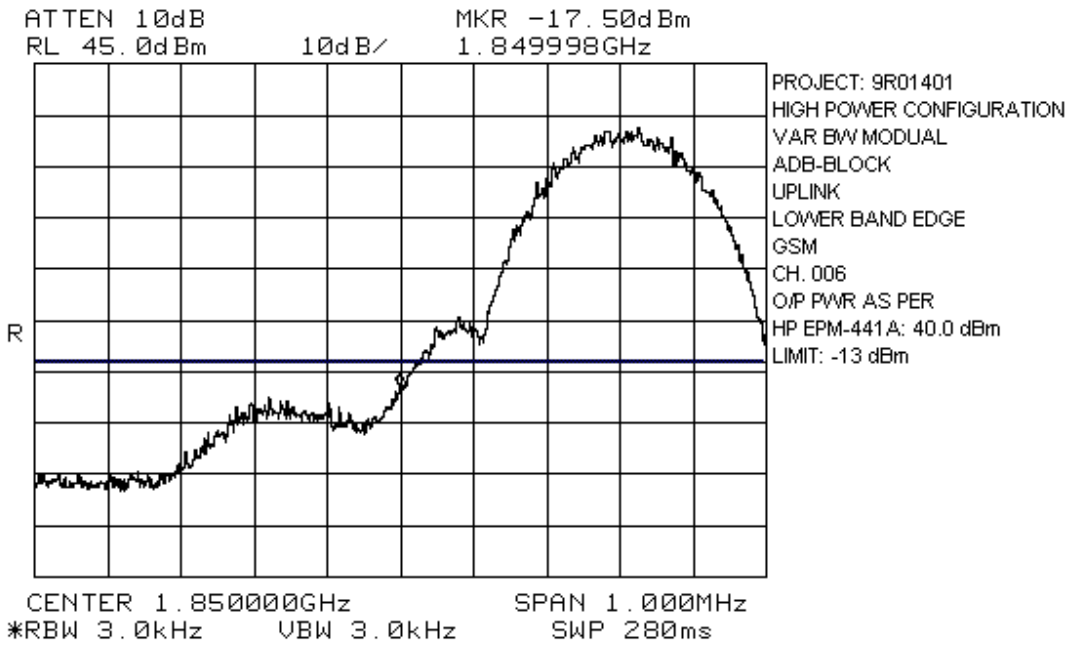

*ATTEN 0dB
MKR -23.30dBm
RL 39.7dBm
10dB/
7.53GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
UPLINK
SINGLE CH. SPURIOUS EMISSIONS
GSM
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

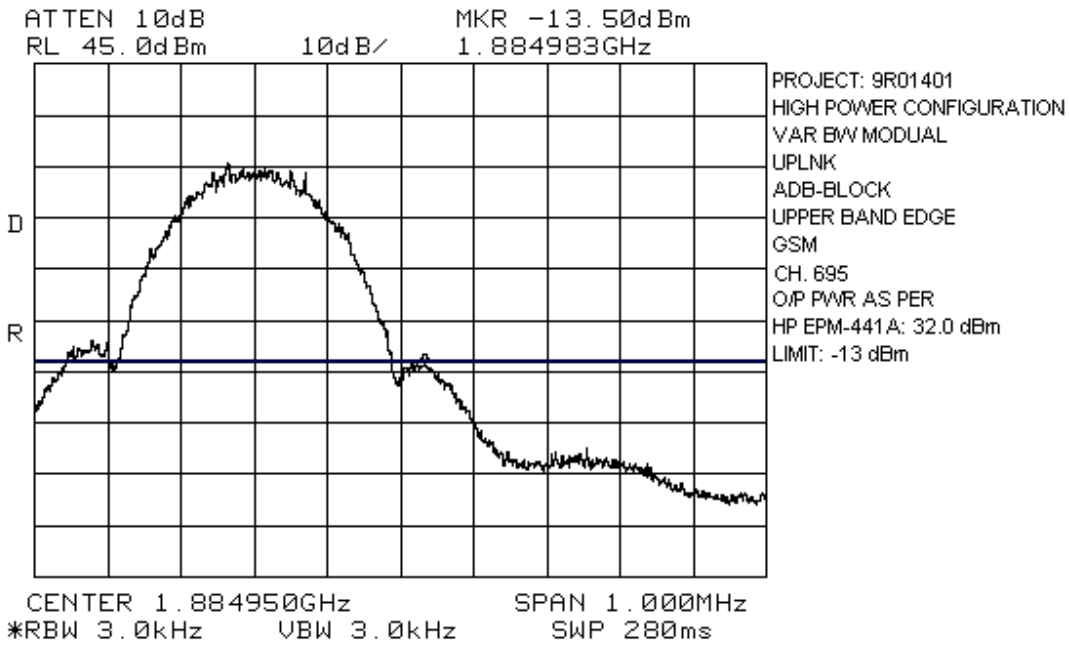

*ATTEN 0dB
MKR -23.13dBm
RL 39.7dBm
10dB/
7.83GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
UPLINK
2 CH. INTERMODULATION SPURIOUS EMISSIONS
GSM
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

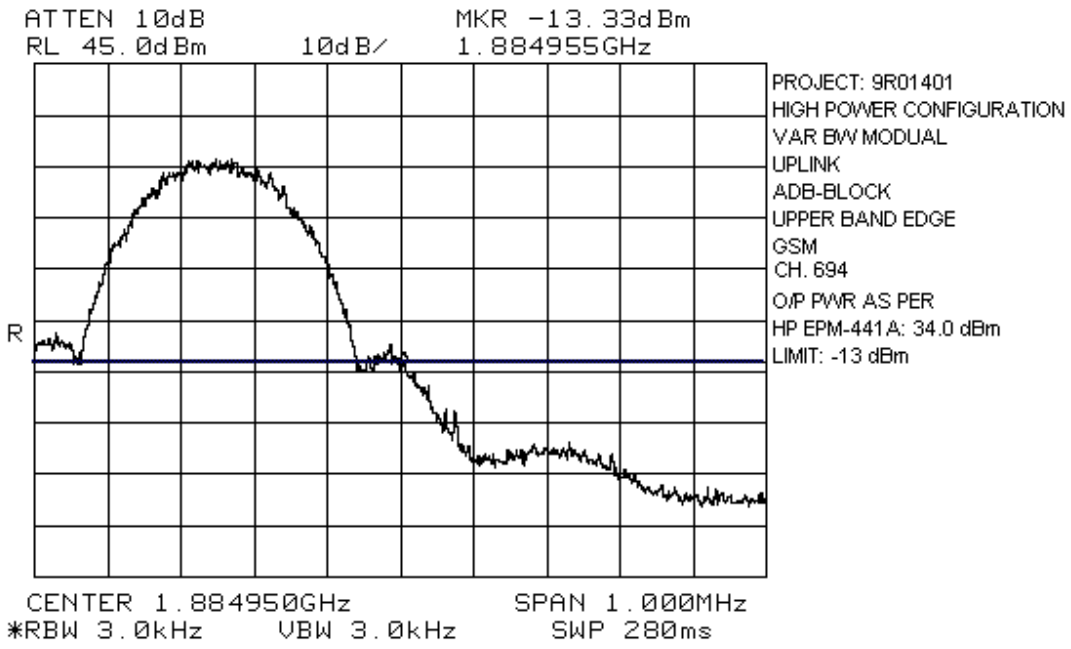

*ATTEN 0dB
MKR -16.80dBm
RL 39.7dBm
10dB/
1.84767GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
ADB-BLOCK
2 CH. INTERMODULATION PRODUCTS
GSM
O/P PWR AS PER
HP EPM-441A: 40.0 DBm
LIMIT: -13 dBm
CENTER 1.86750GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

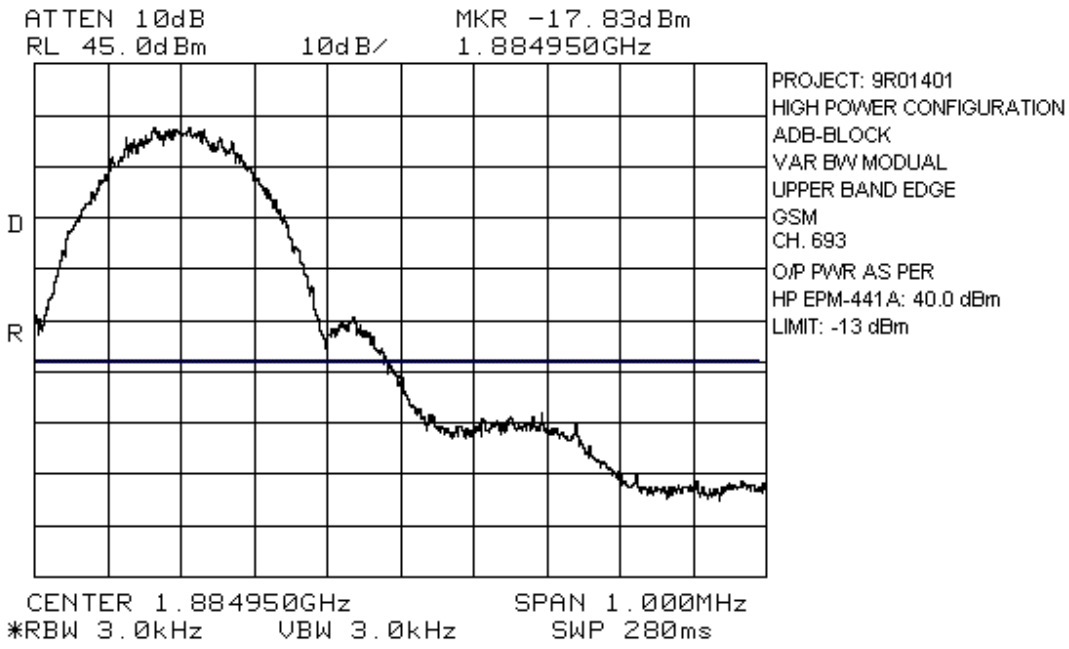

ATTEN 10dB
RL 45.0dBm
10dB/
MKR -13.00dBm
1.849977GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
VAR BW MODUAL
UPLINK
LOWER BAND EDGE
GSM
CH. 004
O/P PWR AS PER
HP EPM-441A: 31.3 dBm
LIMIT: -13 dBm
CENTER 1.850000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

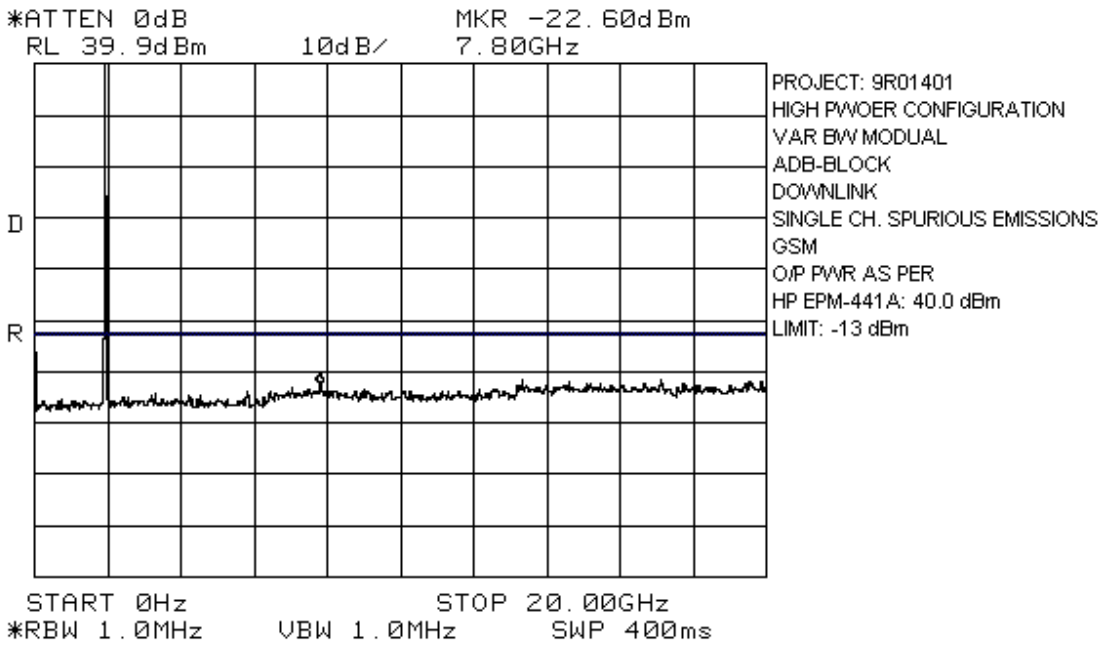

ATTEN 10dB
RL 45.0dBm
10dB/
MKR -13.50dBm
1.849998GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
VAR BW MODUAL
LOWER BAND EDGE
GSM
CH. 005
O/P PWR AS EPR
HP EPM-441A: 33.7 dBm
LIMIT: -13 dBm
R
CENTER 1.850000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

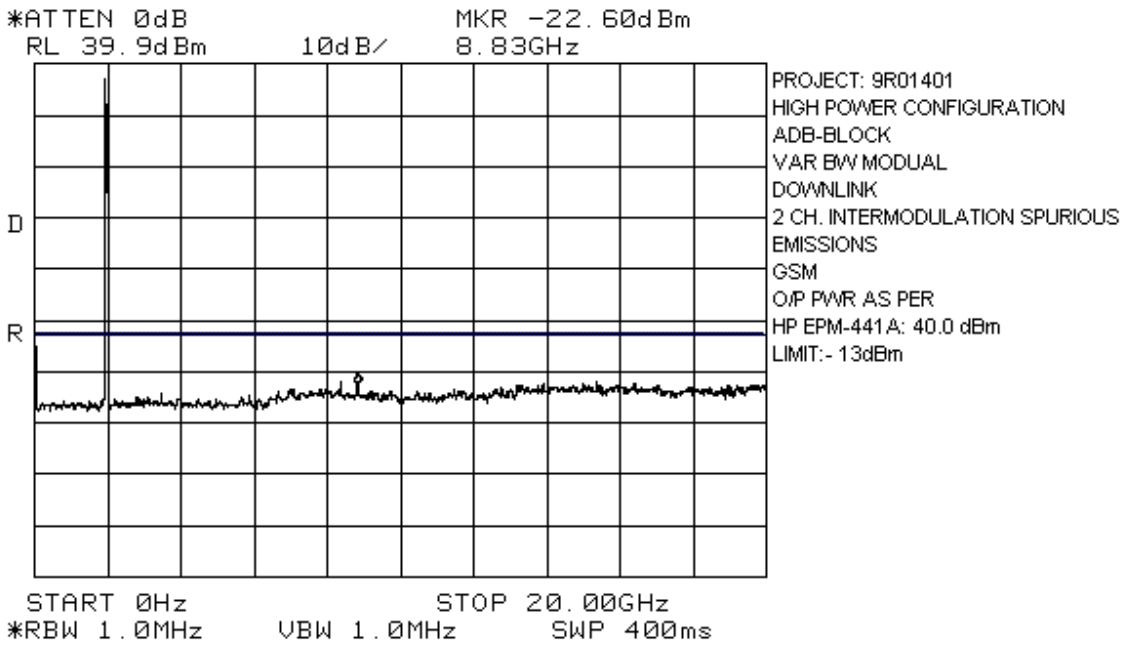

ATTEN 10dB
RL 45.0dBm
10dB/
MKR -17.50dBm
1.849998GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
UPLINK
LOWER BAND EDGE
GSM
CH. 006
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.850000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

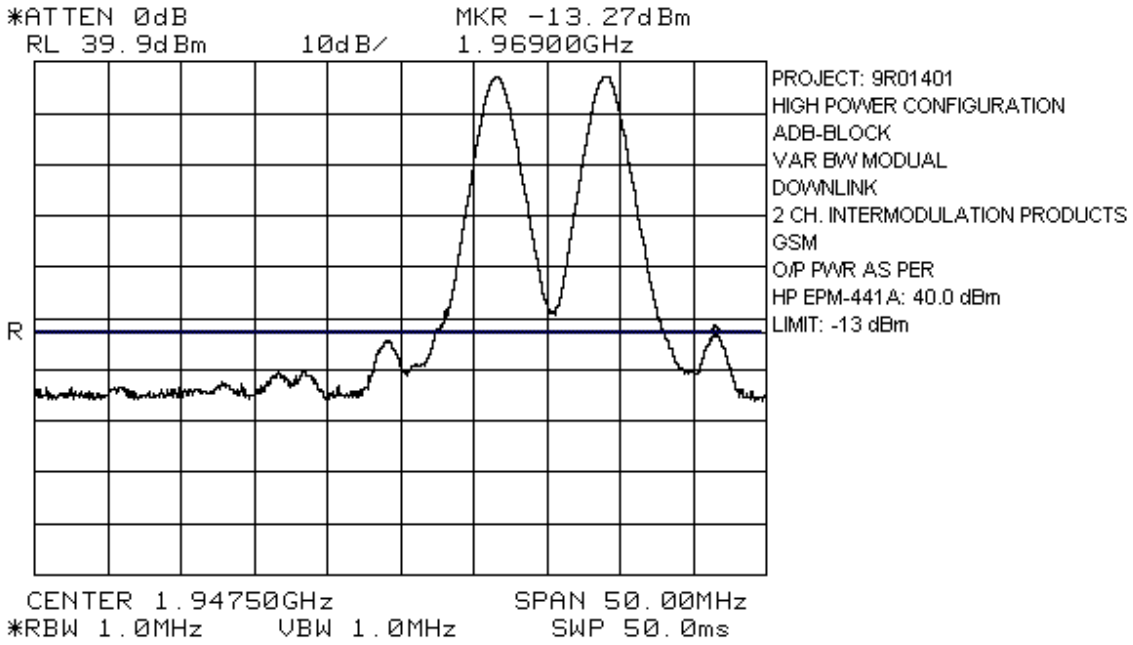

ATTEN 10dB
RL 45.0dBm
10dB/
MKR -13.50dBm
1.884983GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLNK
ADB-BLOCK
UPPER BAND EDGE
GSM
CH. 695
O/P PWR AS PER
HP EPM-441A: 32.0 dBm
LIMIT: -13 dBm
CENTER 1.884950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

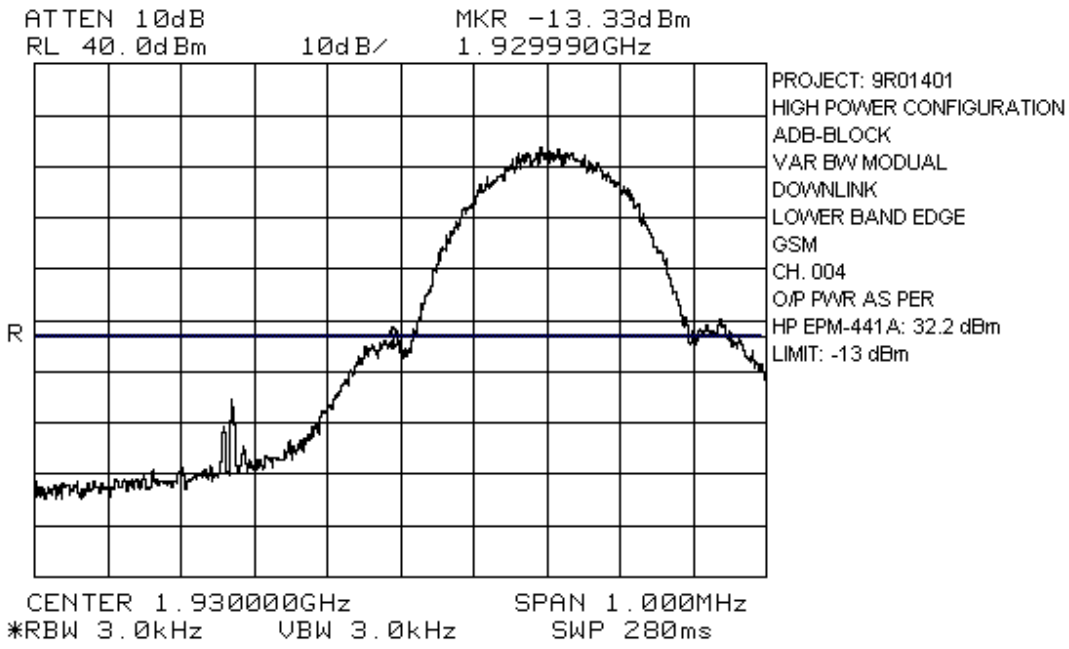

ATTEN 10dB
RL 45.0dBm
10dB/
MKR -13.33dBm
1.884955GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
ADB-BLOCK
UPPER BAND EDGE
GSM
CH. 694
O/P PWR AS PER
HP EPM-441A: 34.0 dBm
LIMIT: -13 dBm
R
CENTER 1.884950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

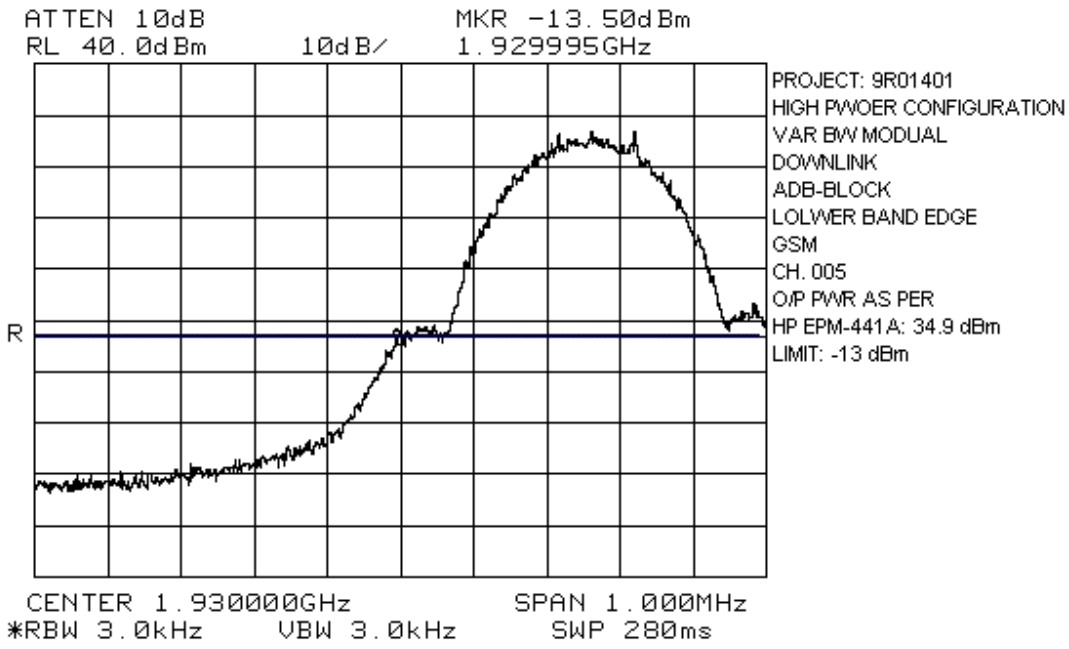

ATTEN 10dB
RL 45.0dBm
10dB/
MKR -17.83dBm
1.884950GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
VAR BW MODUAL
UPPER BAND EDGE
GSM
CH. 693
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.884950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

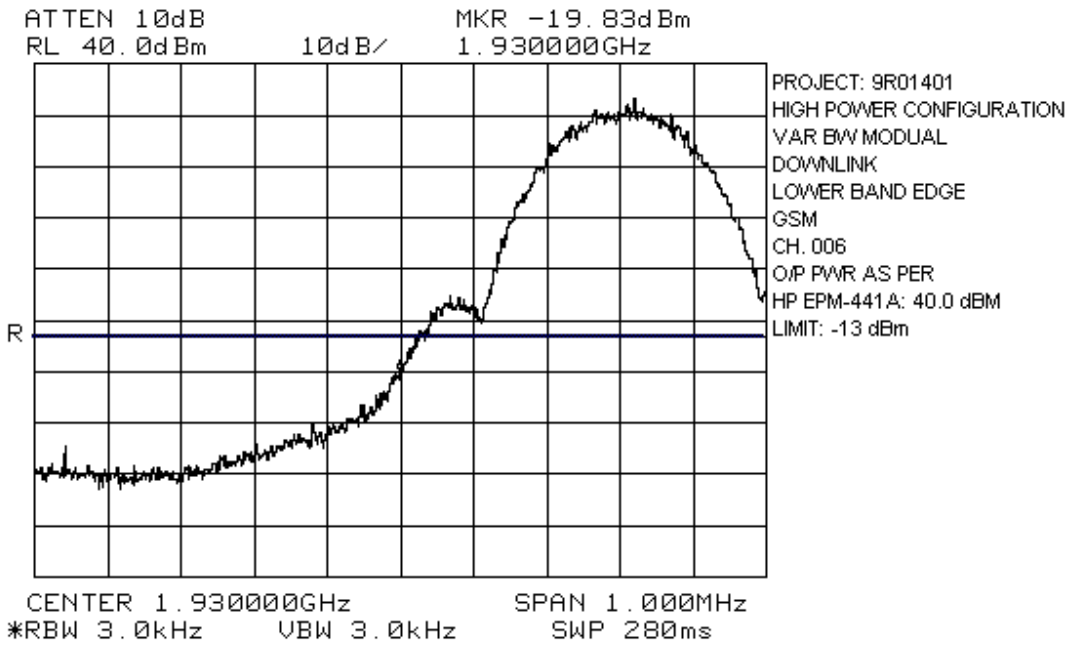

*ATTEN 0dB
MKR -22.60dBm
RL 39.9dBm
10dB/
7.80GHz
D
R
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
DOWNLINK
SINGLE CH. SPURIOUS EMISSIONS
GSM
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

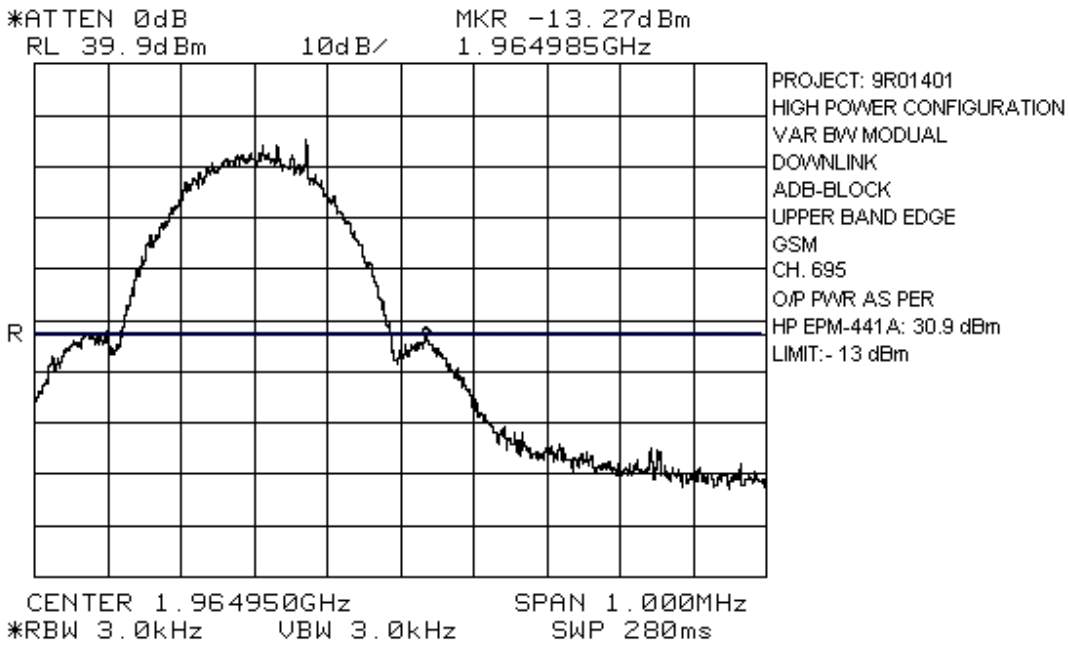

*ATTEN 0dB
MKR -22.60dBm
RL 39.9dBm
10dB/
8.83GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
VAR BW MODUAL
DOWNLINK
2 CH. INTERMODULATION SPURIOUS EMISSIONS
GSM
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT:- 13dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

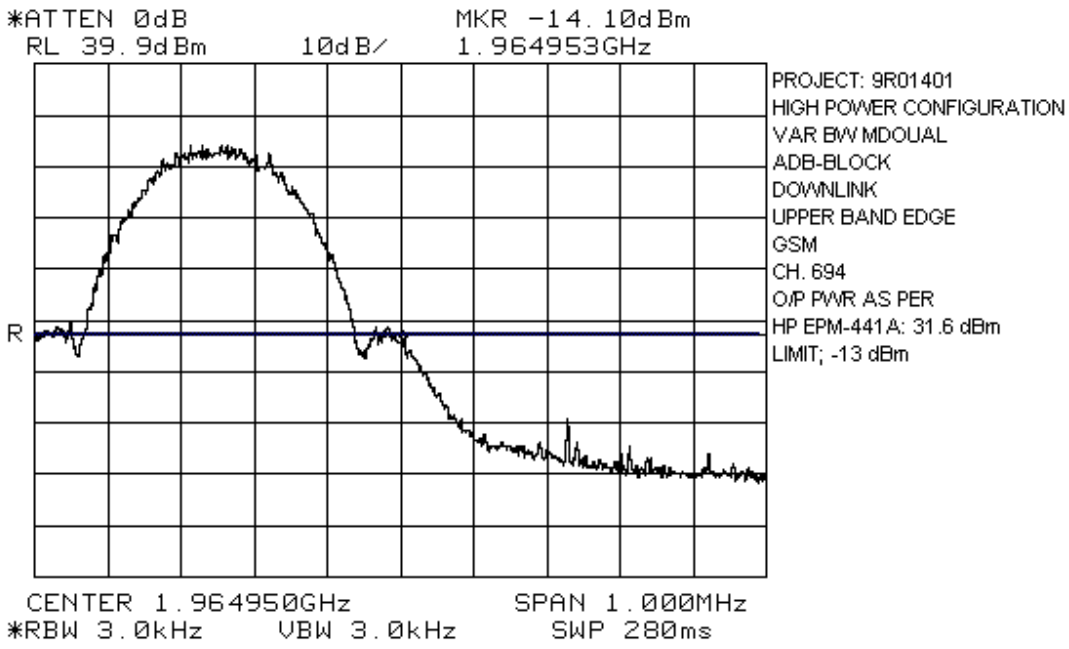

*ATTEN 0dB
MKR -13.27dBm
RL 39.9dBm
10dB/
1.96900GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
VAR BW MODUAL
DOWNLINK
2 CH. INTERMODULATION PRODUCTS
GSM
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
R
CENTER 1.94750GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

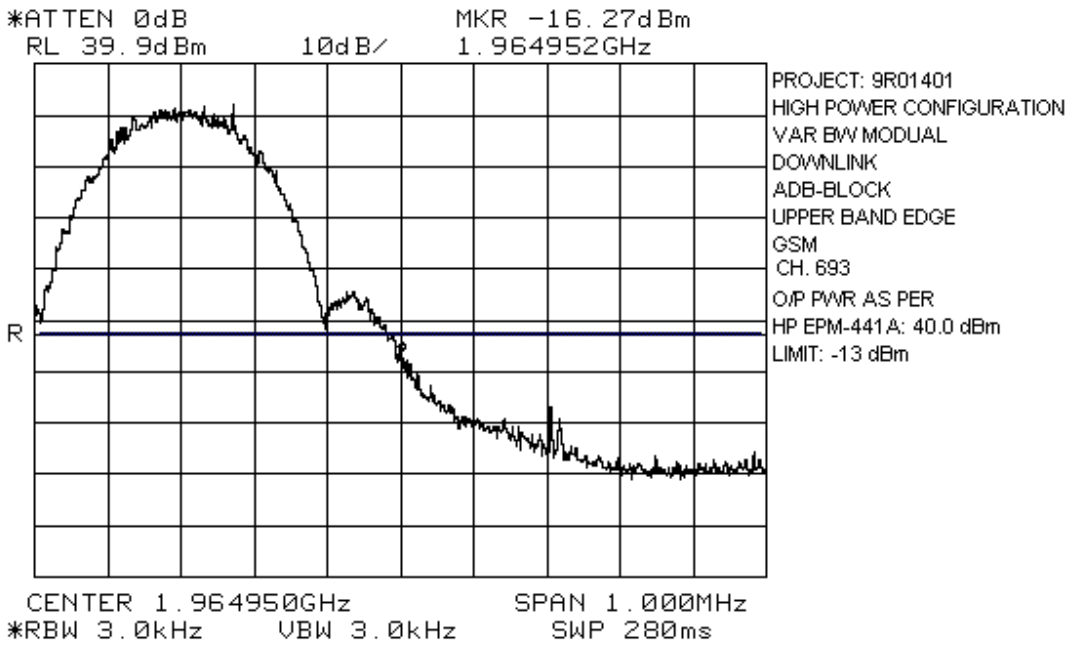

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -13.33dBm
1.929990GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
VAR BW MODUAL
DOWNLINK
LOWER BAND EDGE
GSM
CH. 004
O/P PWR AS PER
HP EPM-441A: 32.2 dBm
LIMIT: -13 dBm
CENTER 1.930000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

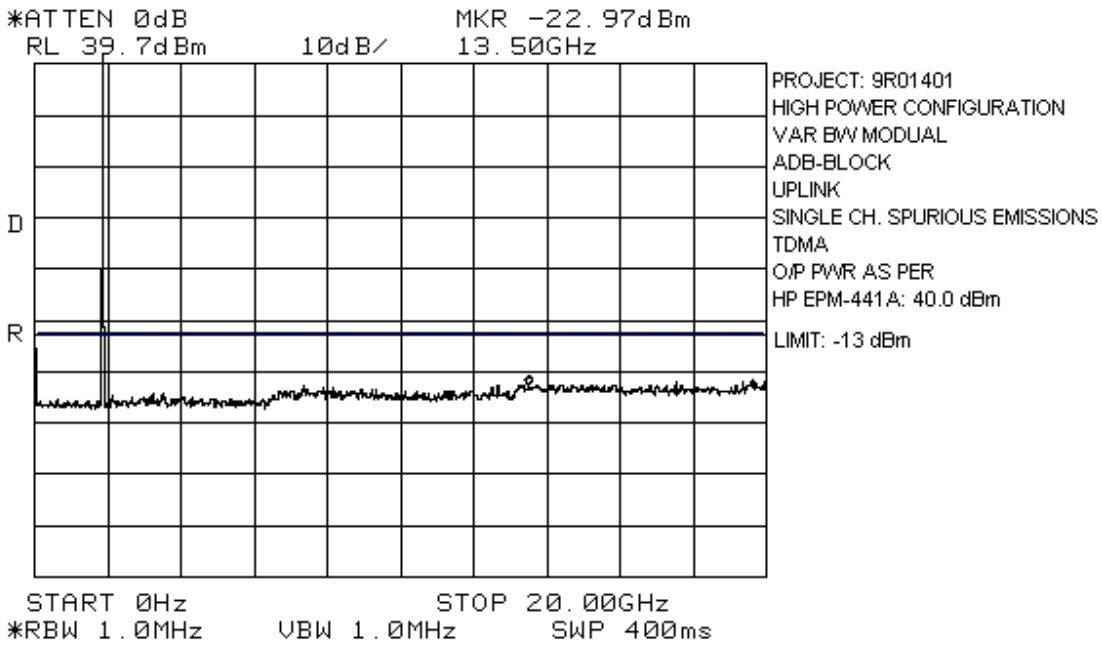

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -13.50dBm
1.929995GHz
R
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
VAR BW MODUAL
DOWNLINK
ADB-BLOCK
LOLWER BAND EDGE
GSM
CH. 005
O/P PWR AS PER
HP EPM-441A: 34.9 dBm
LIMIT: -13 dBm
CENTER 1.930000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

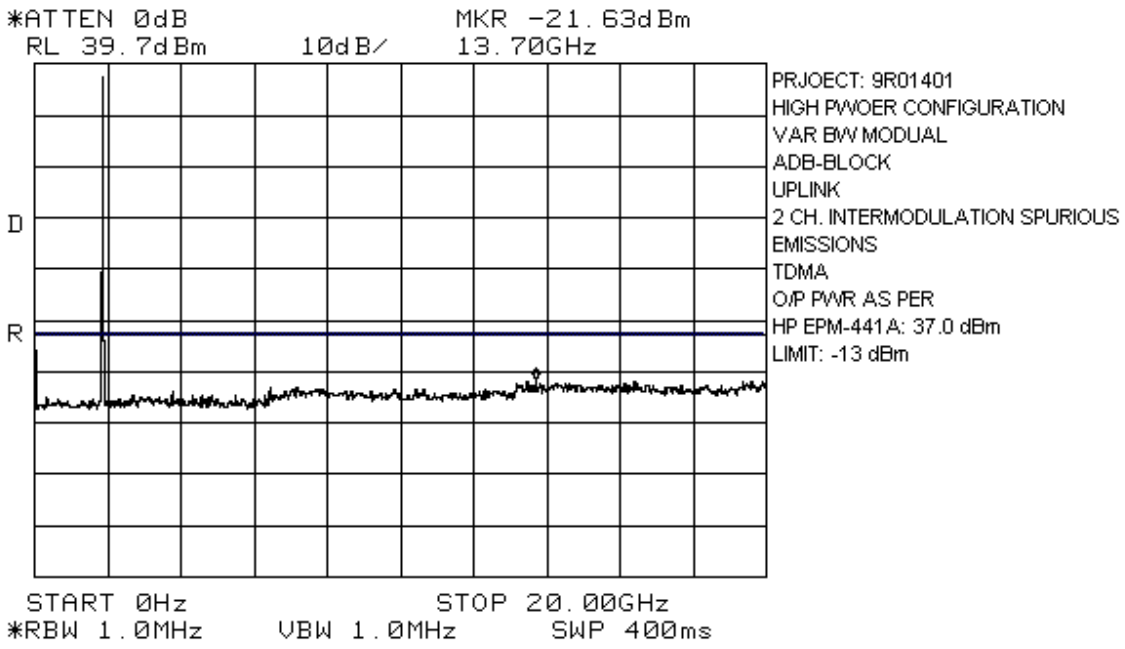

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -19.83dBm
1.930000GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
DOWNLINK
LOWER BAND EDGE
GSM
CH. 006
O/P PWR AS PER
HP EPM-441A: 40.0 dBM
LIMIT: -13 dBm
CENTER 1.930000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

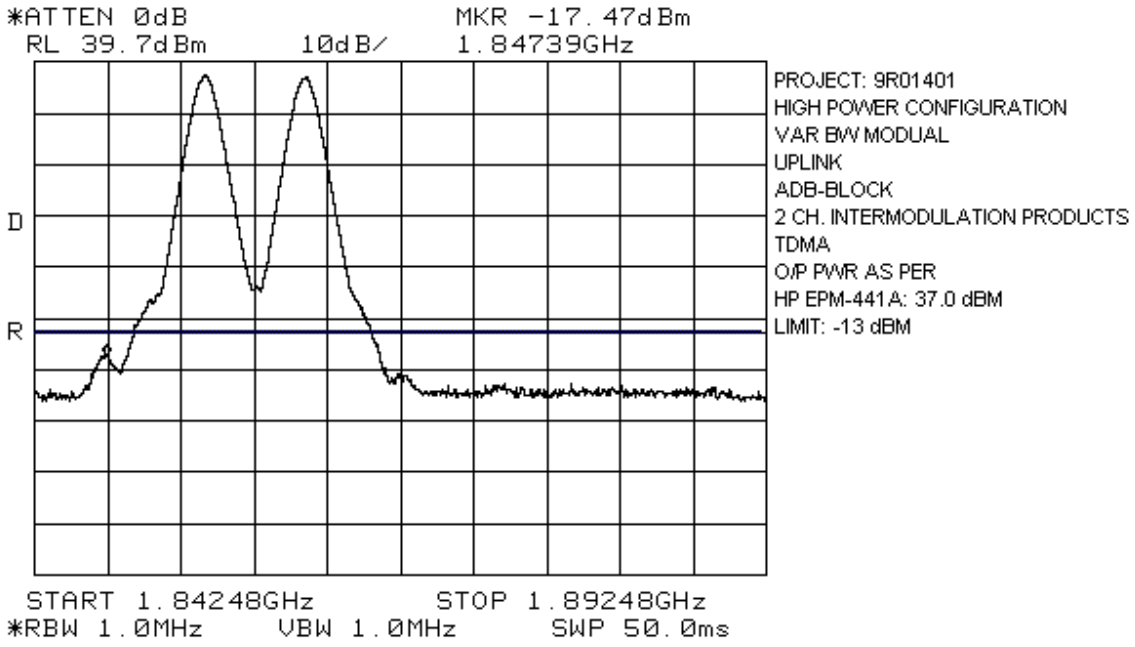

*ATTEN 0dB
MKR -13.27dBm
RL 39.9dBm
10dB/
1.964985GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
DOWNLINK
ADB-BLOCK
UPPER BAND EDGE
GSM
CH. 695
O/P PWR AS PER
HP EPM-441A: 30.9 dBm
LIMIT:- 13 dBm
R
CENTER 1.964950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

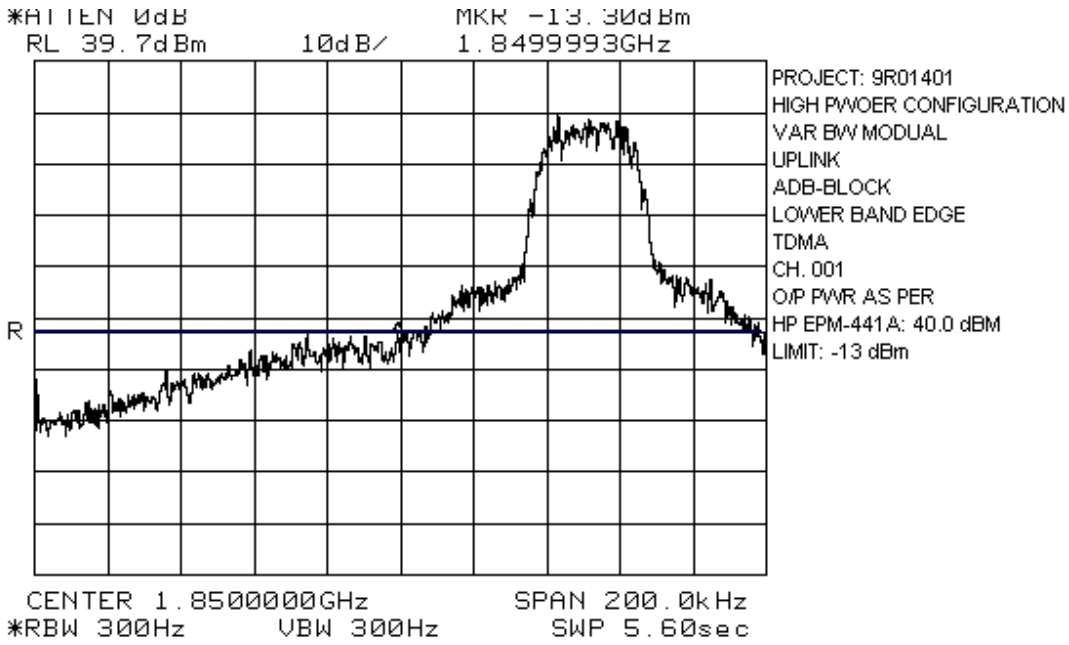

*ATTEN 0dB
MKR -14.10dBm
RL 39.9dBm
10dB/
1.964953GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MDOUAL
ADB-BLOCK
DOWNLINK
UPPER BAND EDGE
GSM
CH. 694
O/P PWR AS PER
HP EPM-441A: 31.6 dBm
LIMIT; -13 dBm
R
CENTER 1.964950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

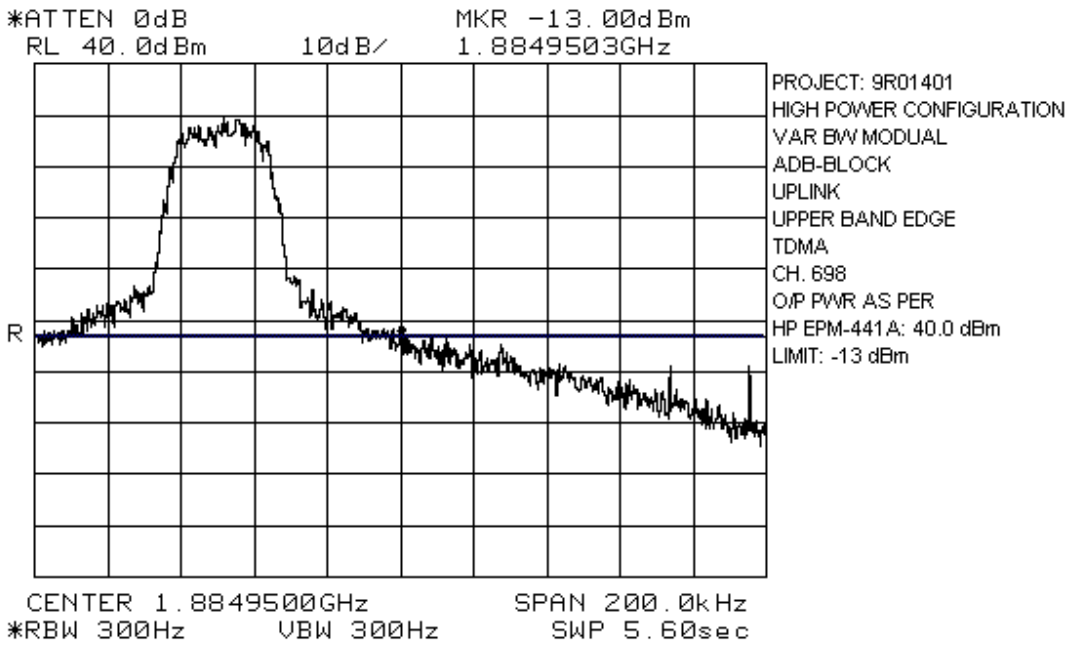

*ATTEN 0dB
MKR -16.27dBm
RL 39.9dBm
10dB/
1.964952GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
DOWNLINK
ADB-BLOCK
UPPER BAND EDGE
GSM
CH. 693
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
R
CENTER 1.964950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

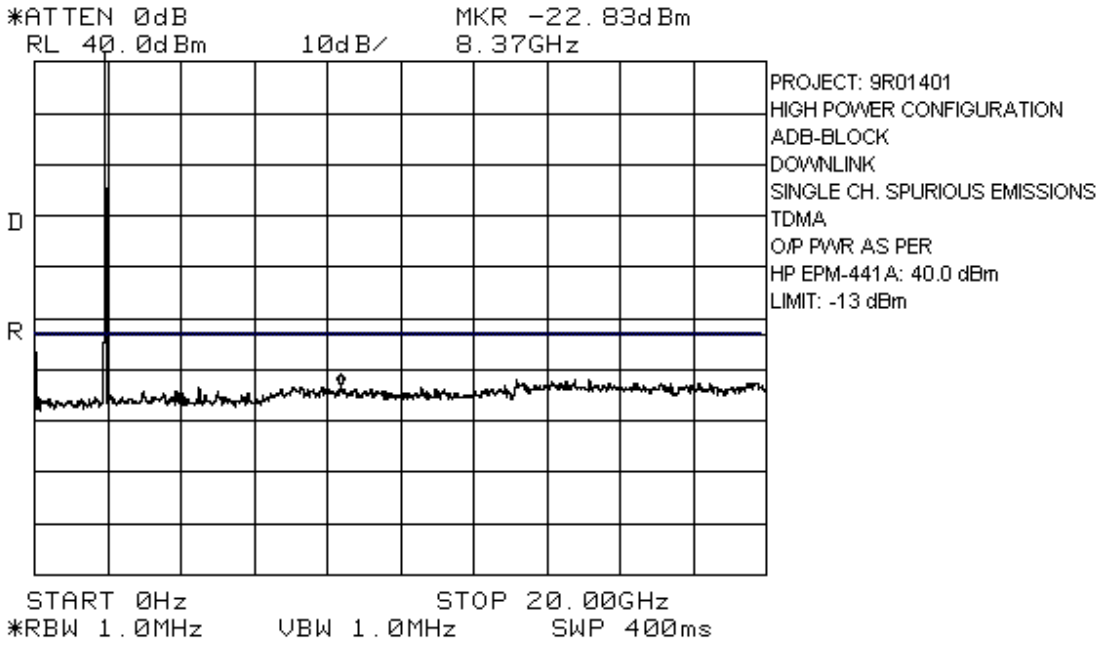

*ATTEN 0dB
MKR -22.97dBm
RL 39.7dBm
10dB/
13.50GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
UPLINK
SINGLE CH. SPURIOUS EMISSIONS
TDMA
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

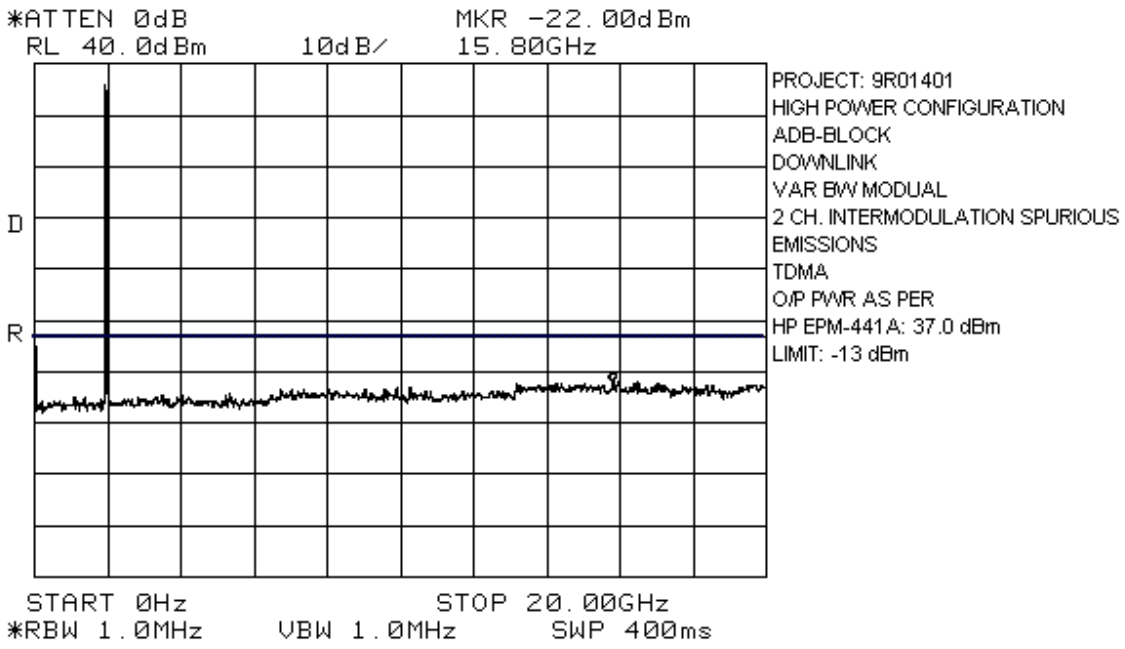

*ATTEN 0dB
MKR -21.63dBm
RL 39.7dBm
10dB/
13.70GHz
D
R
PRJOECT: 9R01401
HIGH PWOER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
UPLINK
2 CH. INTERMODULATION SPURIOUS EMISSIONS
TDMA
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

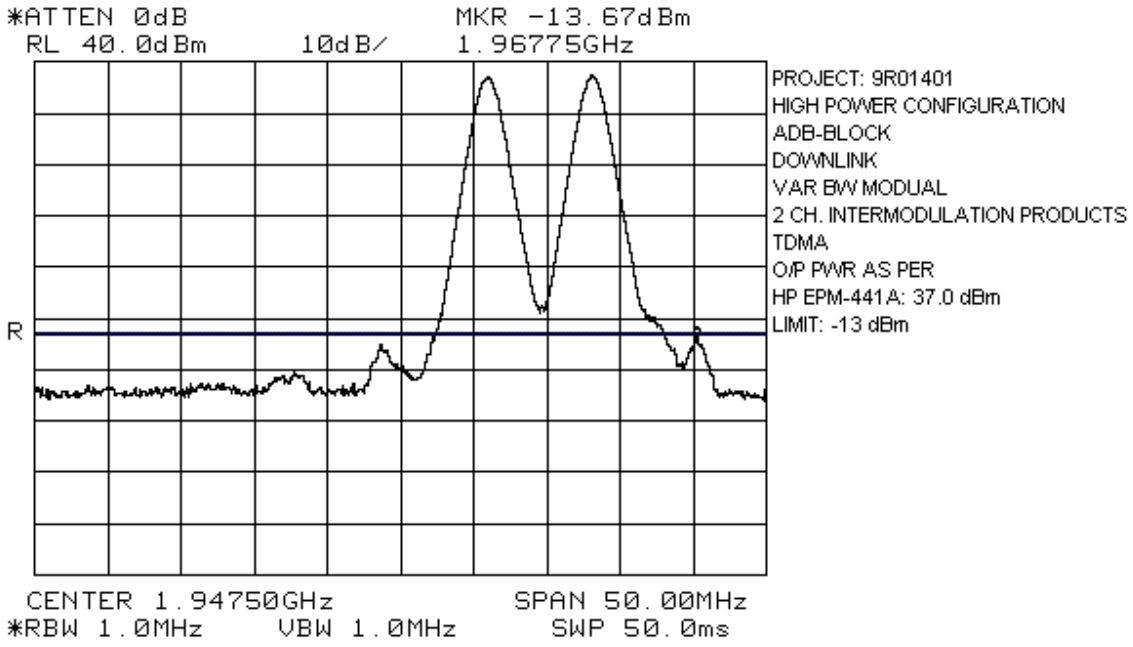

*ATTEN 0dB
MKR -17.47dBm
RL 39.7dBm
10dB/
1.84739GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
ADB-BLOCK
2 CH. INTERMODULATION PRODUCTS
TDMA
O/P PWR AS PER
HP EPM-441A: 37.0 dBM
LIMIT: -13 dBM
START 1.84248GHz
STOP 1.89248GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

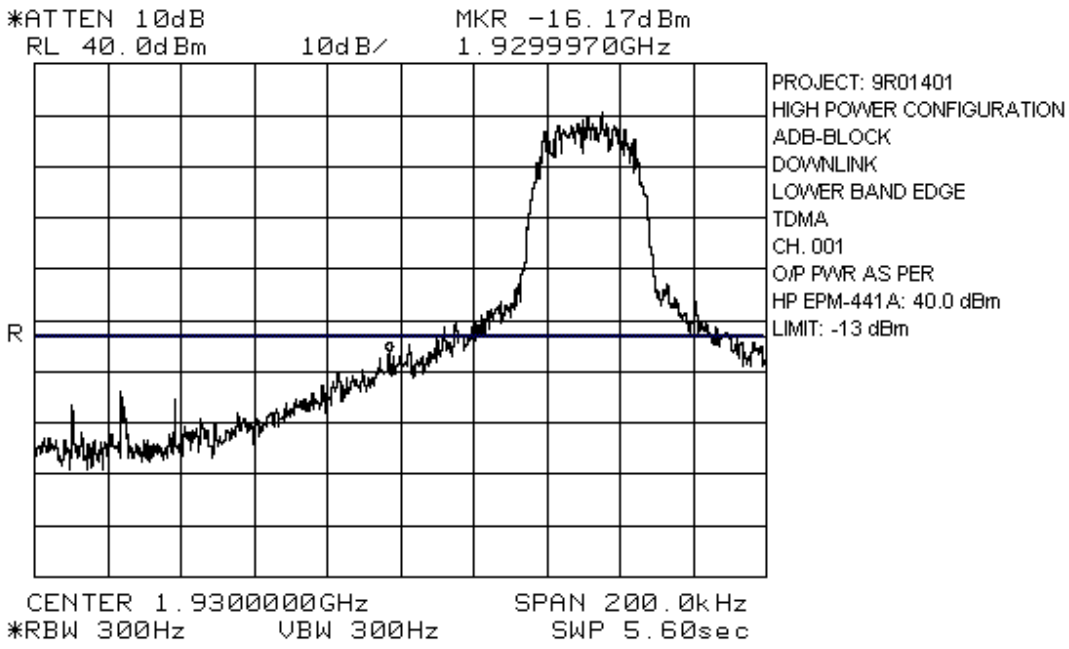

*ATTEN 0dB
MKR -13.30dBm
RL 39.7dBm
10dB/
1.8499993GHz
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
VAR BW MODUAL
UPLINK
ADB-BLOCK
LOWER BAND EDGE
TDMA
CH. 001
O/P PWR AS PER
HP EPM-441A: 40.0 dBM
LIMIT: -13 dBm
R
CENTER 1.8500000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

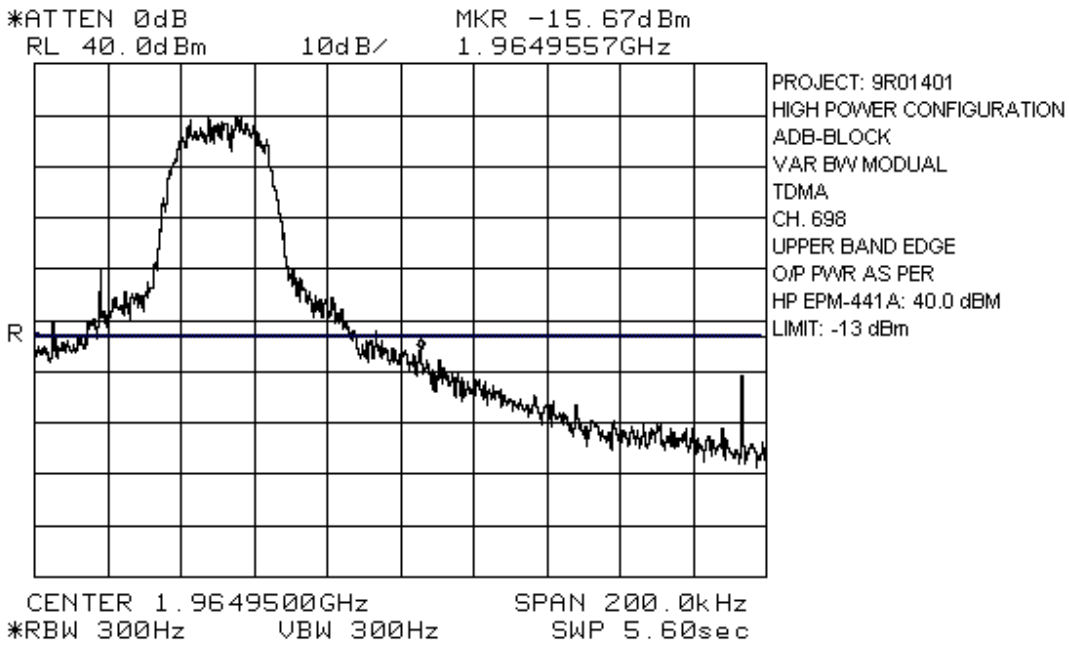

*ATTEN 0dB
MKR -13.00dBm
RL 40.0dBm
10dB/
1.8849503GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
ADB-BLOCK
UPLINK
UPPER BAND EDGE
TDMA
CH. 698
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.8849500GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec


*ATTEN 0dB
MKR -22.83dBm
RL 40.0dBm
10dB/
8.37GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
SINGLE CH. SPURIOUS EMISSIONS
TDMA
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

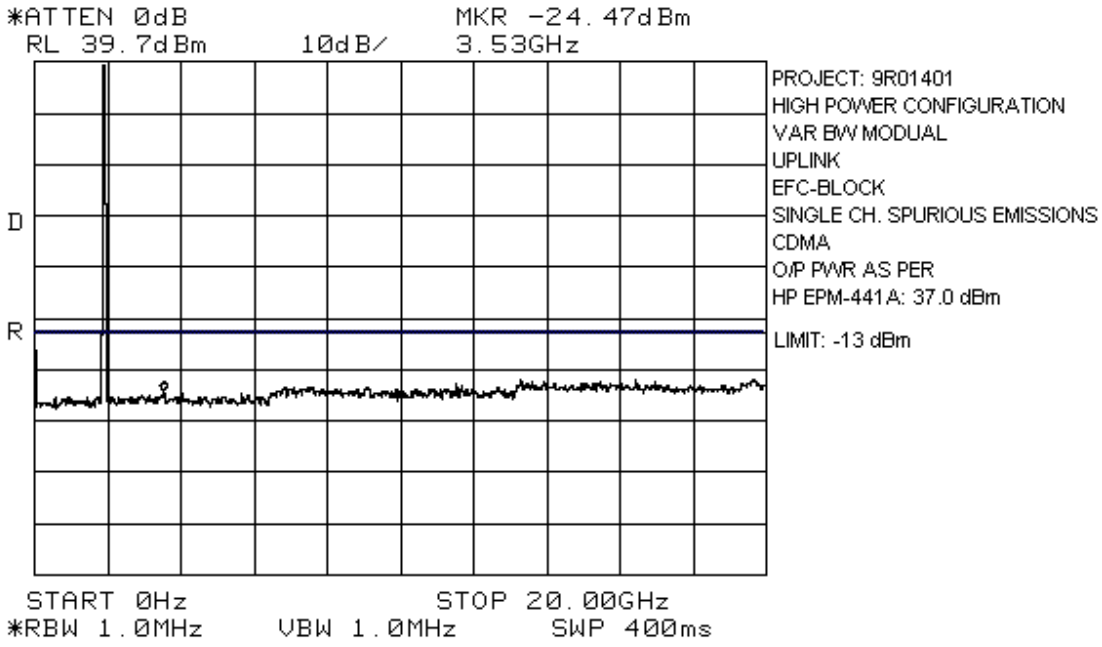

*ATTEN 0dB
MKR -22.00dBm
RL 40.0dBm
10dB/
15.80GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
VAR BW MODUAL
2 CH. INTERMODULATION SPURIOUS EMISSIONS
TDMA
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

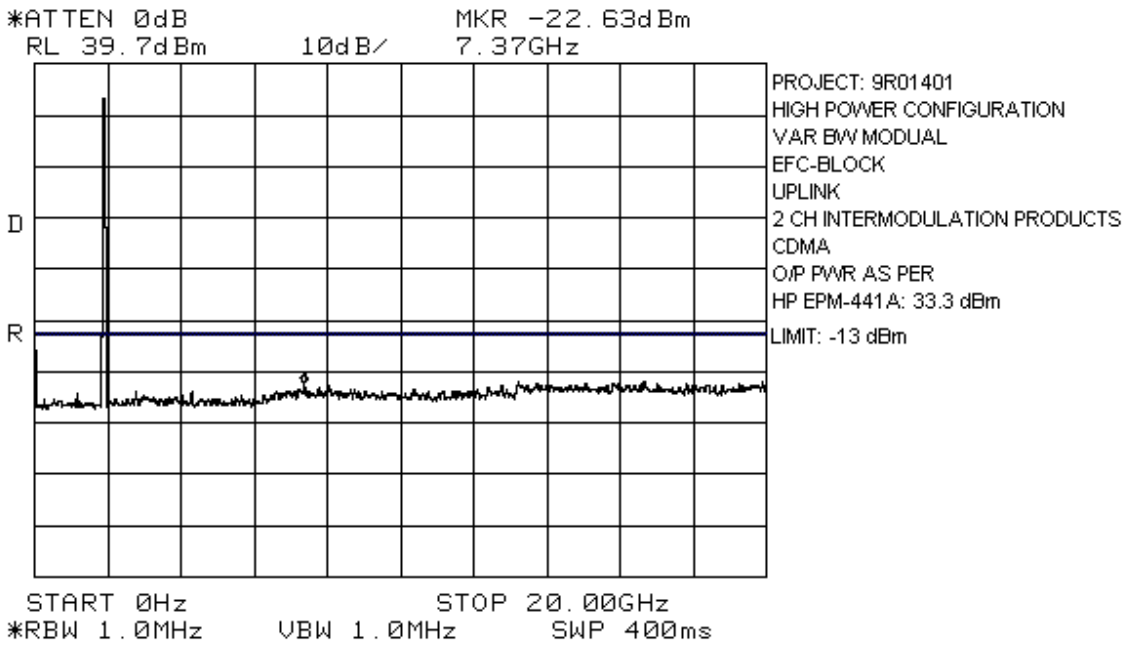

*ATTEN 0dB
MKR -13.67dBm
RL 40.0dBm
10dB/
1.96775GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
VAR BW MODUAL
2 CH. INTERMODULATION PRODUCTS
TDMA
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
R
CENTER 1.94750GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

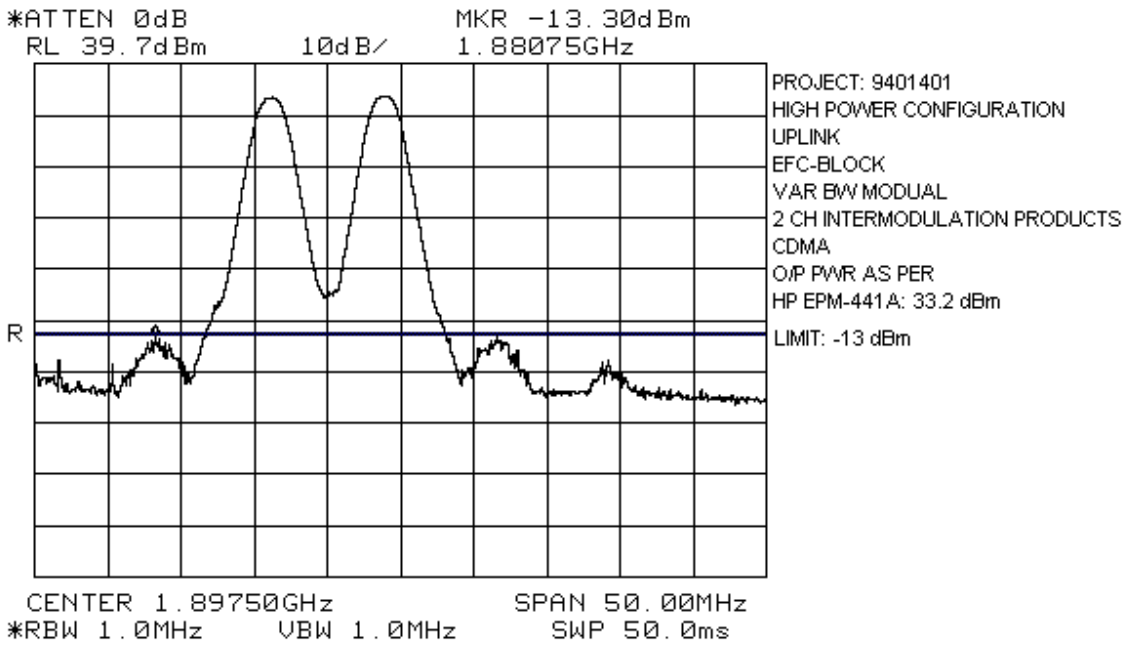

*ATTEN 10dB
RL 40.0dBm
10dB/
MKR -16.17dBm
1.9299970GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
LOWER BAND EDGE
TDMA
CH. 001
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.9300000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

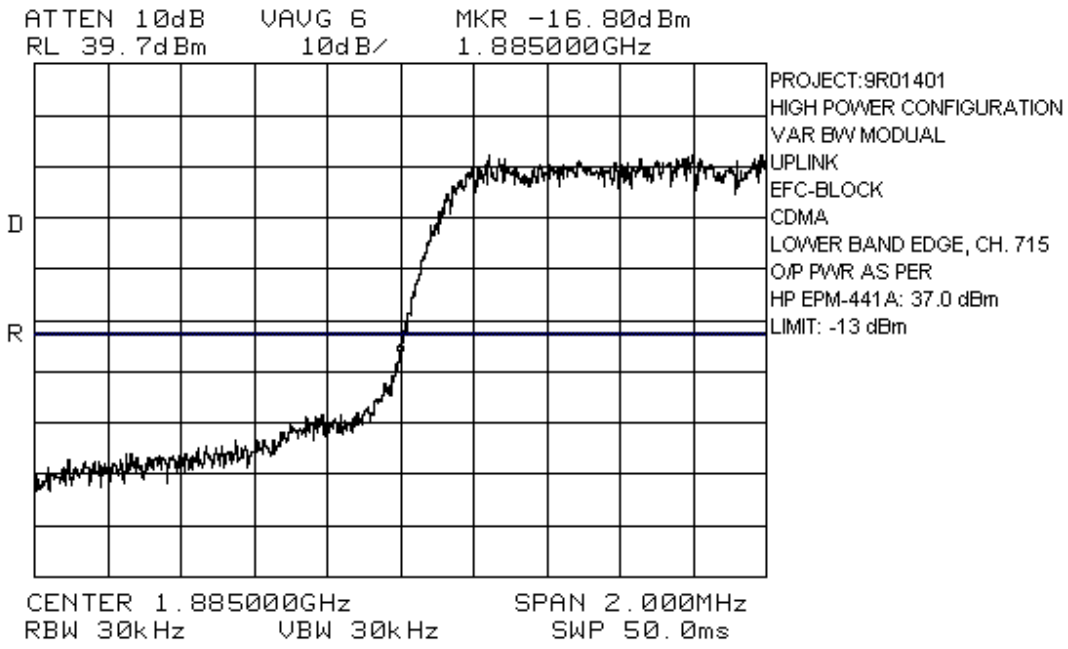

*ATTEN 0dB
MKR -15.67dBm
RL 40.0dBm
10dB/
1.9649557GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
VAR BW MODUAL
TDMA
CH. 698
UPPER BAND EDGE
O/P PWR AS PER
HP EPM-441A: 40.0 dBM
LIMIT: -13 dBm
R
CENTER 1.9649500GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

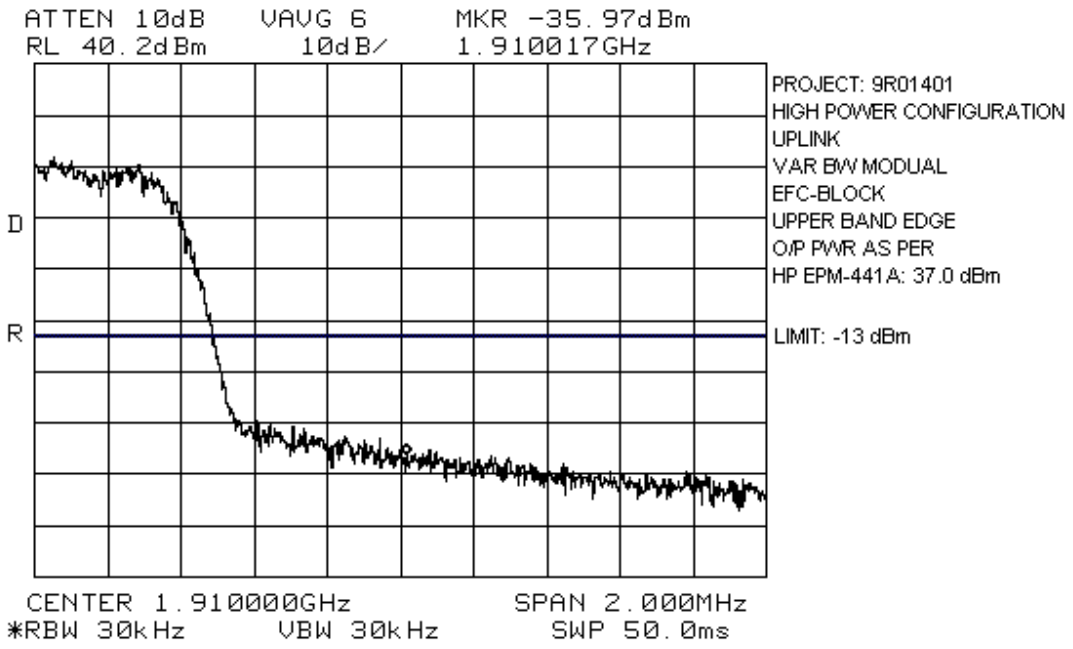
Variable Bandwidth Module – EFC Block

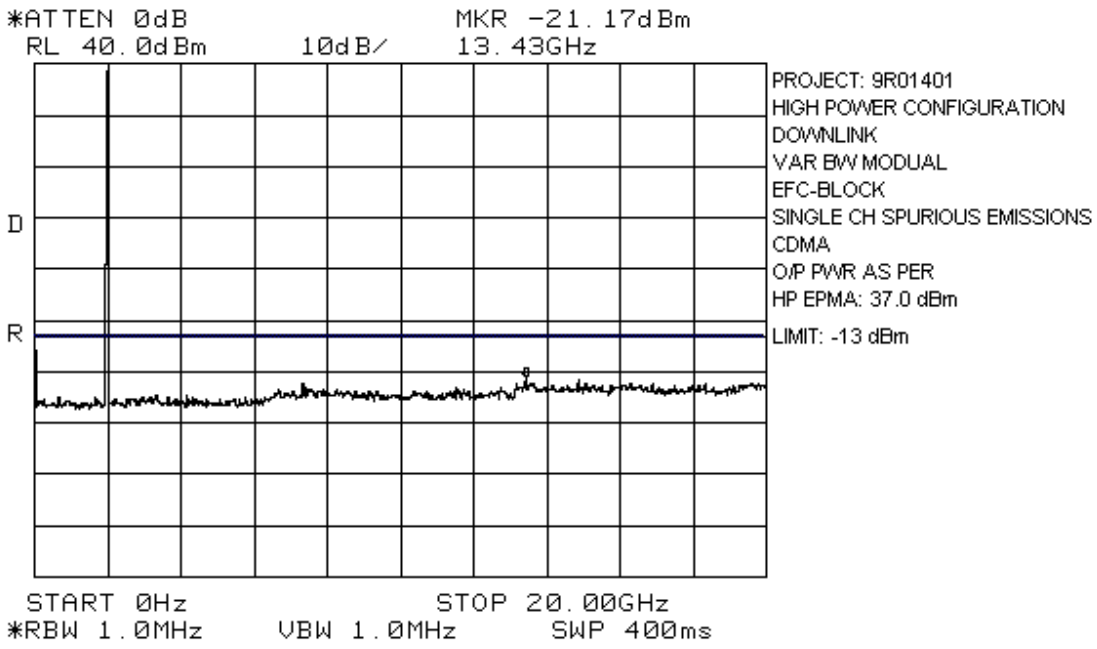

*ATTEN 0dB
MKR -24.47dBm
RL 39.7dBm
10dB/
3.53GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
EFC-BLOCK
SINGLE CH. SPURIOUS EMISSIONS
CDMA
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

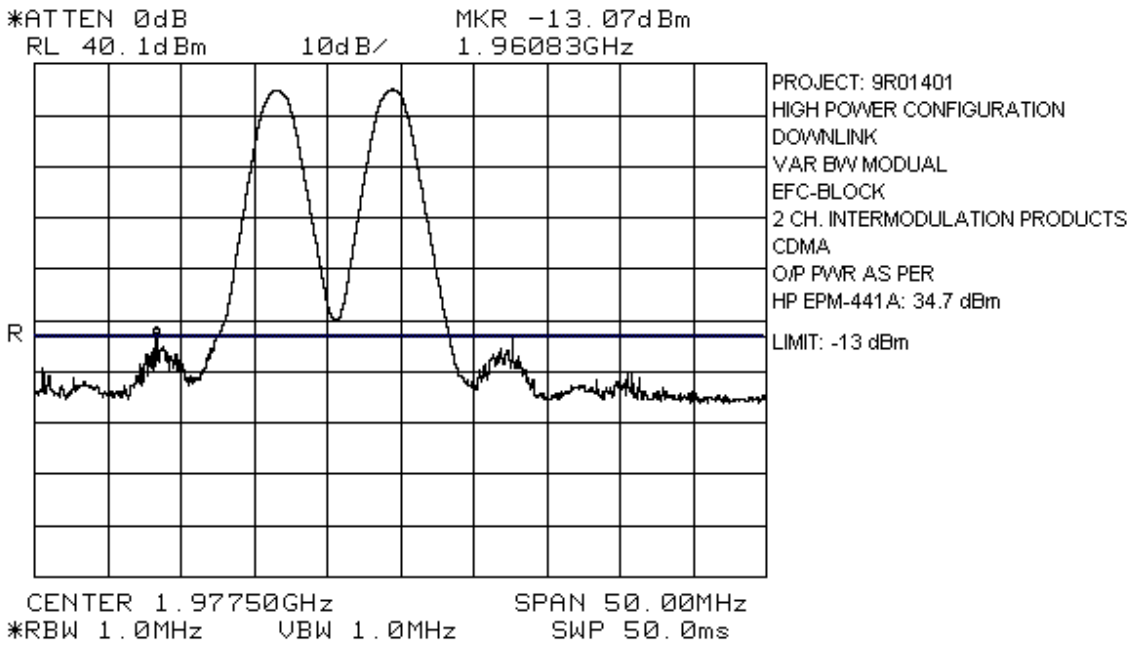

*ATTEN 0dB
MKR -22.63dBm
RL 39.7dBm
10dB/
7.37GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
UPLINK
2 CH INTERMODULATION PRODUCTS
CDMA
O/P PWR AS PER
HP EPM-441A: 33.3 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

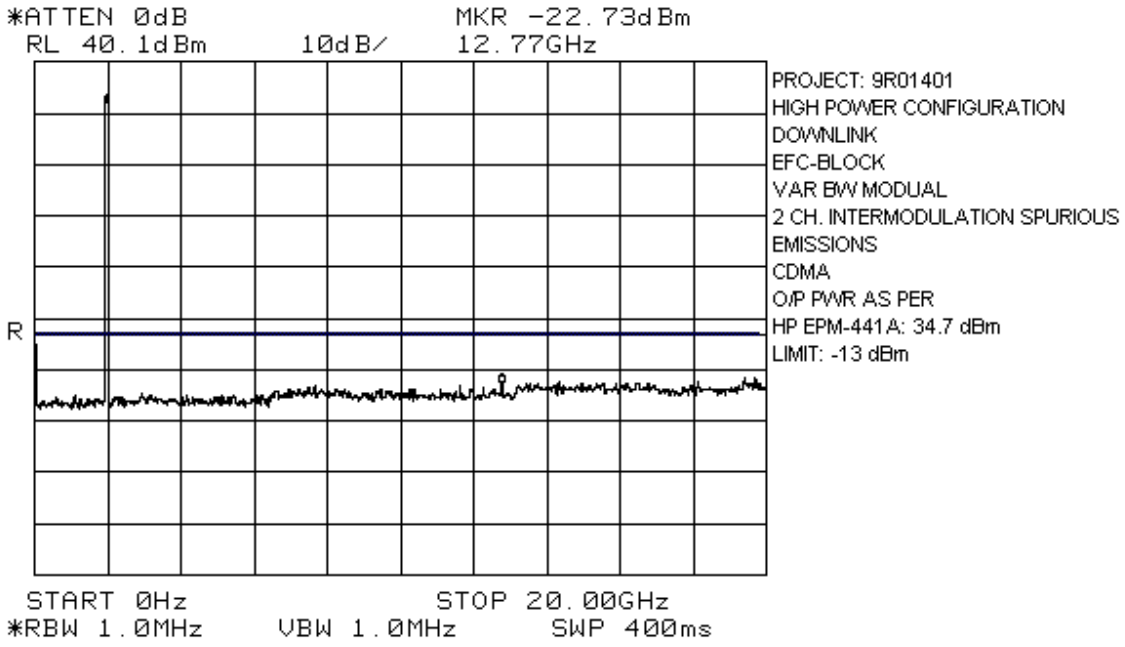

*ATTEN 0dB
MKR -13.30dBm
RL 39.7dBm
10dB/
1.88075GHz
PROJECT: 9401401
HIGH POWER CONFIGURATION
UPLINK
EFC-BLOCK
VAR BW MODUAL
2 CH INTERMODULATION PRODUCTS
CDMA
O/P PWR AS PER
HP EPM-441A: 33.2 dBm
R
LIMIT: -13 dBm
CENTER 1.89750GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

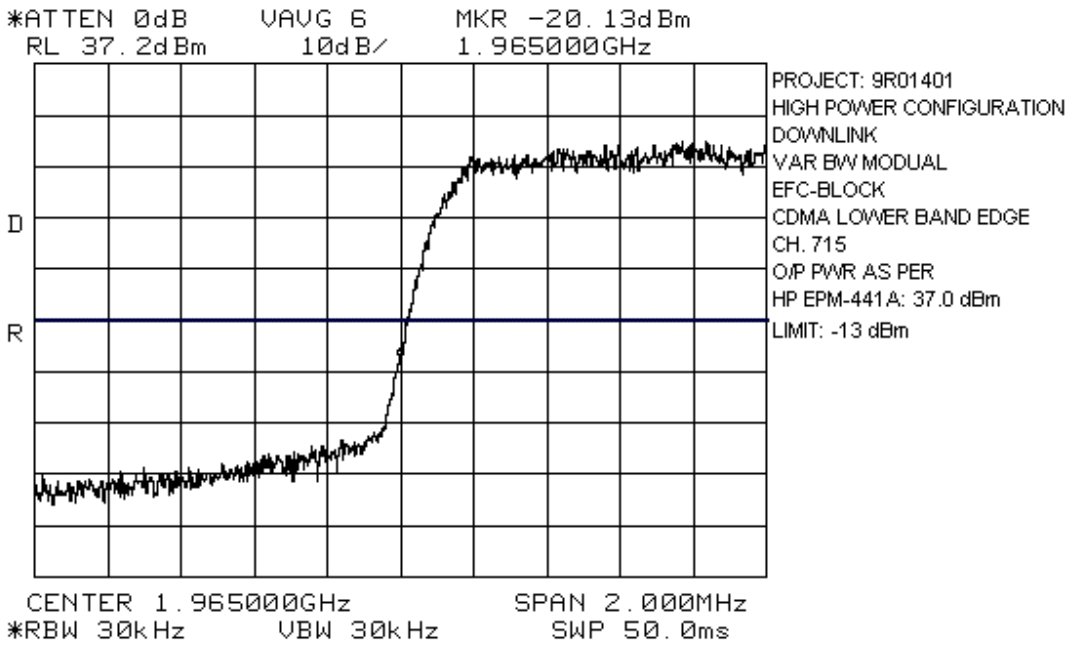

ATTEN 10dB
VAVG 6
MKR -16.80dBm
RL 39.7dBm
10dB/
1.885000GHz
D
R
PROJECT:9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
EFC-BLOCK
CDMA
LOWER BAND EDGE, CH. 715
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.885000GHz
SPAN 2.000MHz
RBW 30kHz
VBW 30kHz
SWP 50.0ms

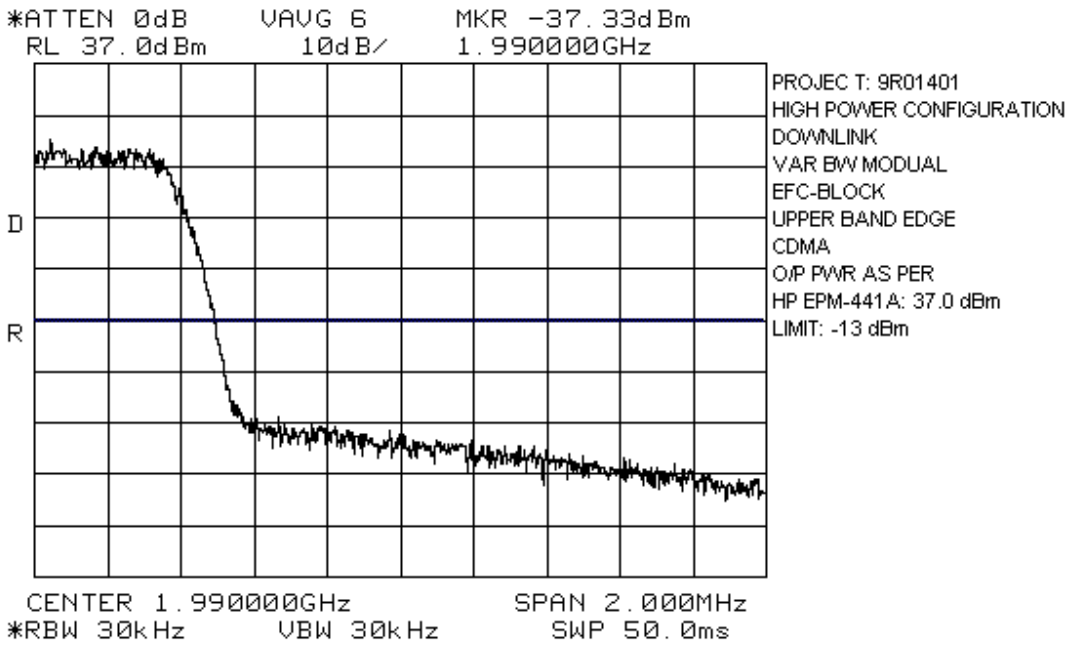

ATTEN 10dB
RL 40.2dBm
VAVG 6
10dB/
MKR -35.97dBm
1.910017GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
UPLINK
VAR BW MODUAL
EFC-BLOCK
UPPER BAND EDGE
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.910000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

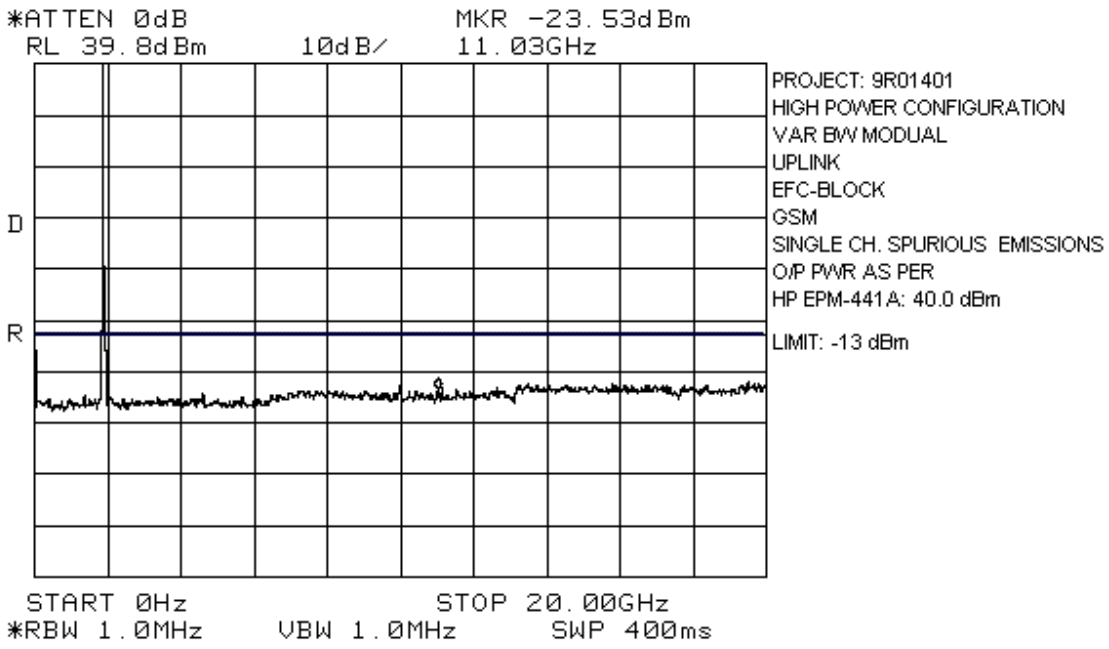

*ATTEN 0dB
MKR -21.17dBm
RL 40.0dBm
10dB/
13.43GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
SINGLE CH SPURIOUS EMISSIONS
CDMA
O/P PWR AS PER
HP EPMA: 37.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

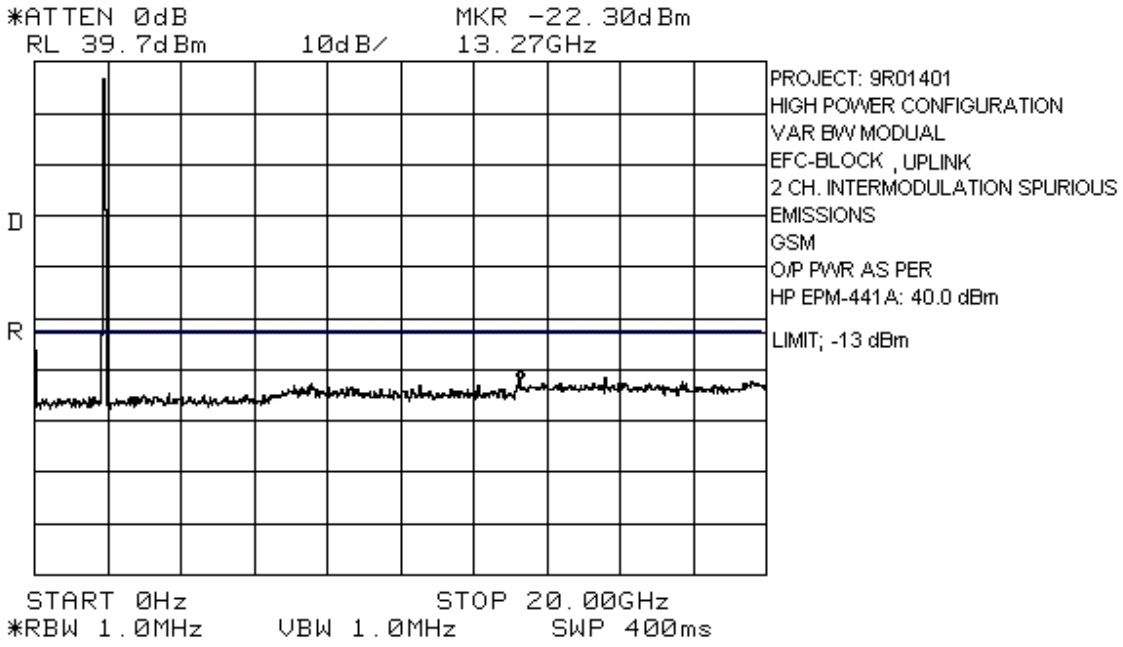

*ATTEN 0dB
MKR -13.07dBm
RL 40.1dBm
10dB/
1.96083GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
2 CH. INTERMODULATION PRODUCTS
CDMA
O/P PWR AS PER
HP EPM-441A: 34.7 dBm
LIMIT: -13 dBm
CENTER 1.97750GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

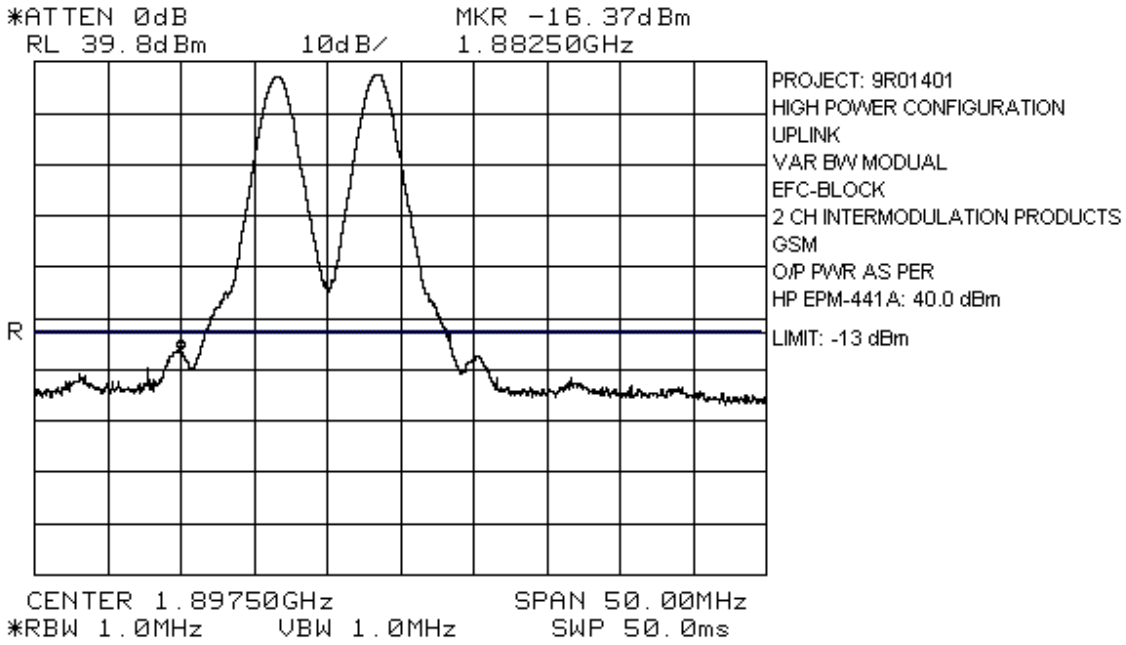

*ATTEN 0dB
MKR -22.73dBm
RL 40.1dBm
10dB/
12.77GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
EFC-BLOCK
VAR BW MODUAL
2 CH. INTERMODULATION SPURIOUS EMISSIONS
CDMA
O/P PWR AS PER
HP EPM-441A: 34.7 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

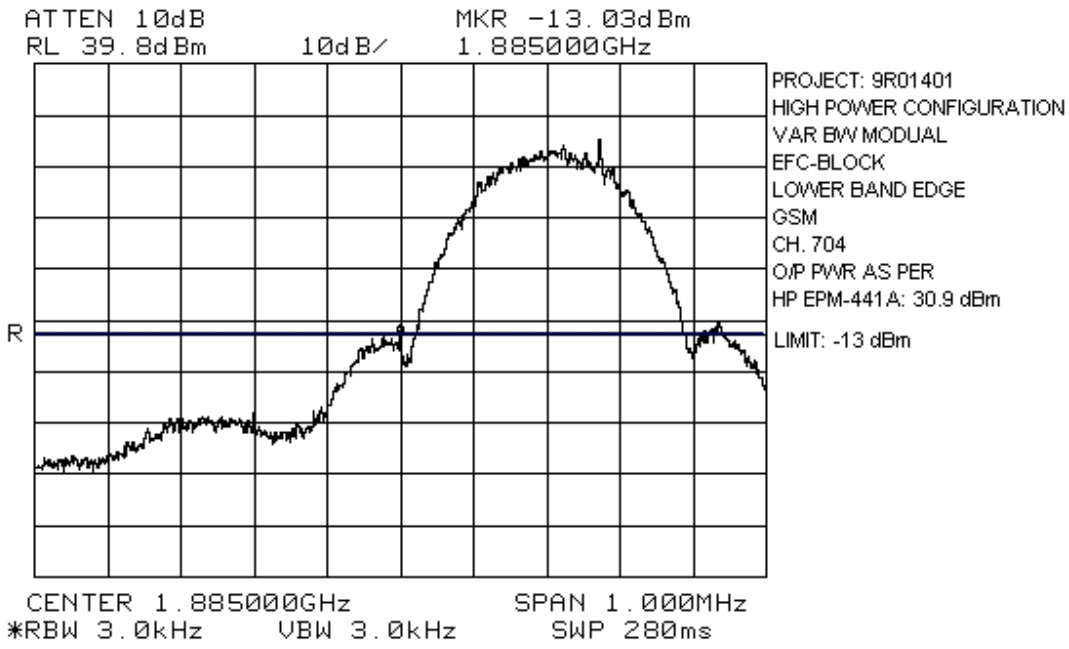

*ATTEN 0dB
VAVG 6
MKR -20.13dBm
RL 37.2dBm
10dB/
1.965000GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
CDMA LOWER BAND EDGE
CH. 715
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.965000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

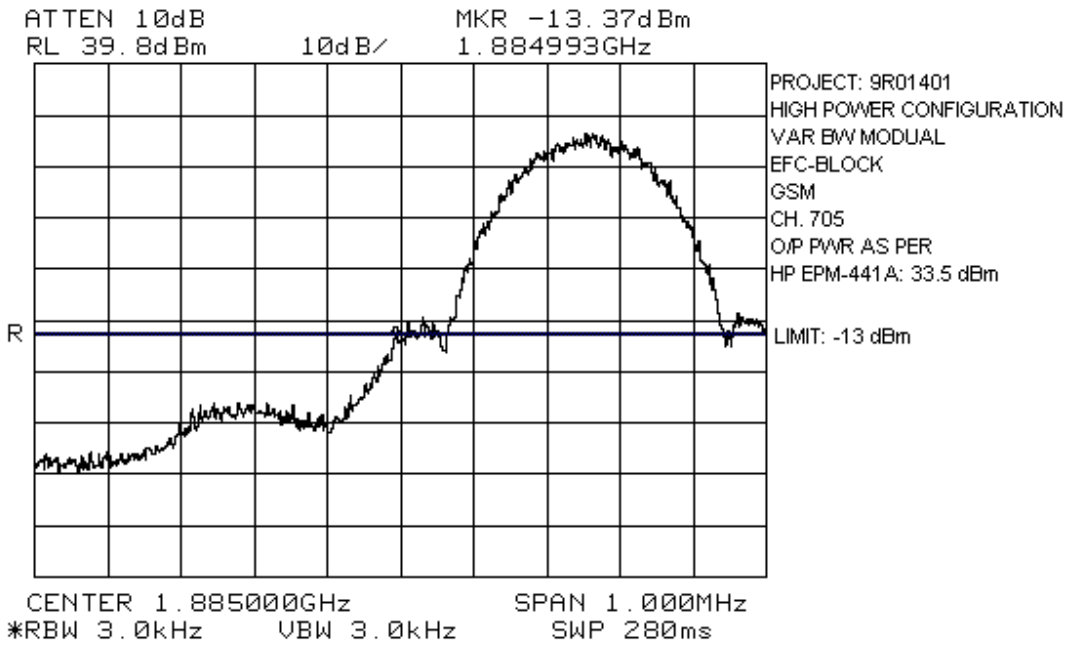

*ATTEN 0dB
VAVG 6
MKR -37.33dBm
RL 37.0dBm
10dB/
1.990000GHz
D
R
PROJEC T: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
UPPER BAND EDGE
CDMA
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.990000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

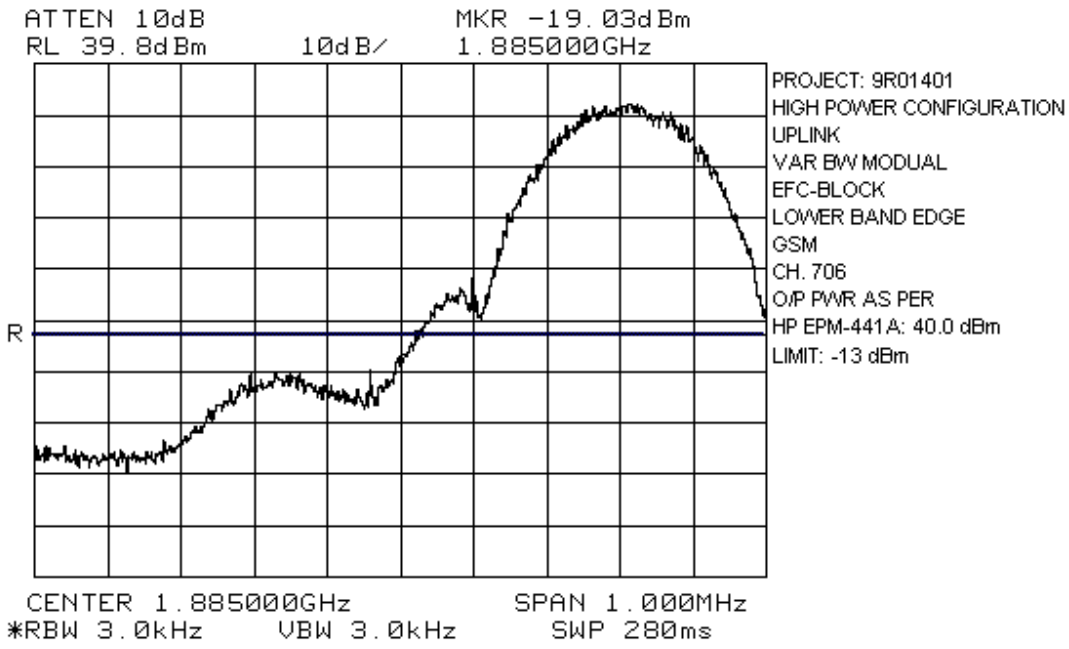

*ATTEN 0dB
MKR -23.53dBm
RL 39.8dBm
10dB/
11.03GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
EFC-BLOCK
GSM
SINGLE CH. SPURIOUS EMISSIONS
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

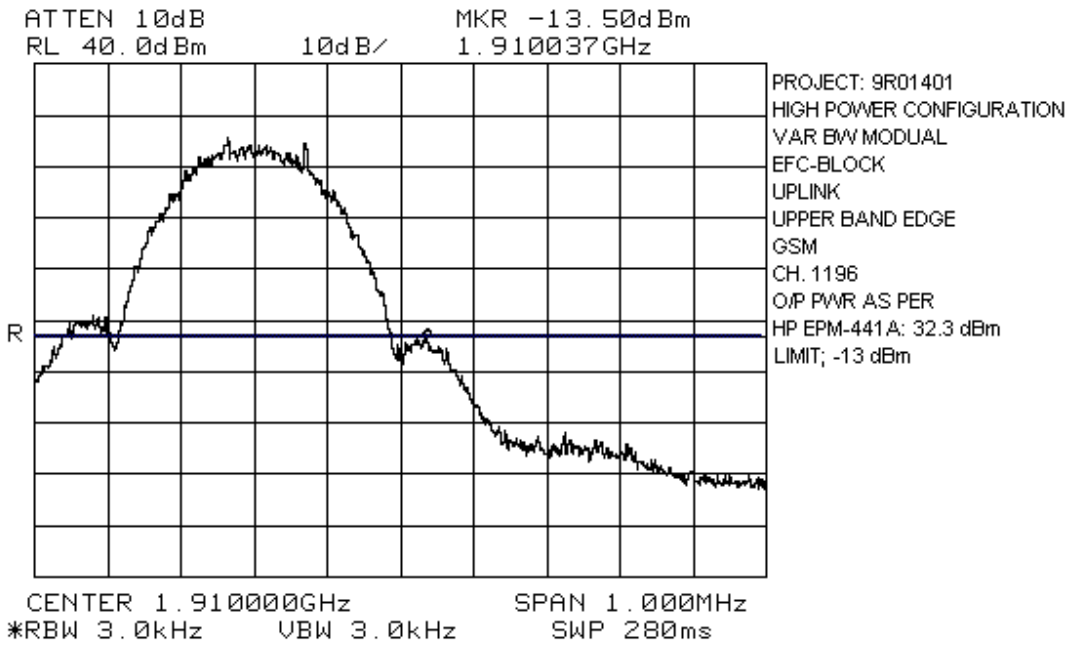

*ATTEN 0dB
MKR -22.30dBm
RL 39.7dBm
10dB/
13.27GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK , UPLINK
2 CH. INTERMODULATION SPURIOUS
EMISSIONS
GSM
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT; -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

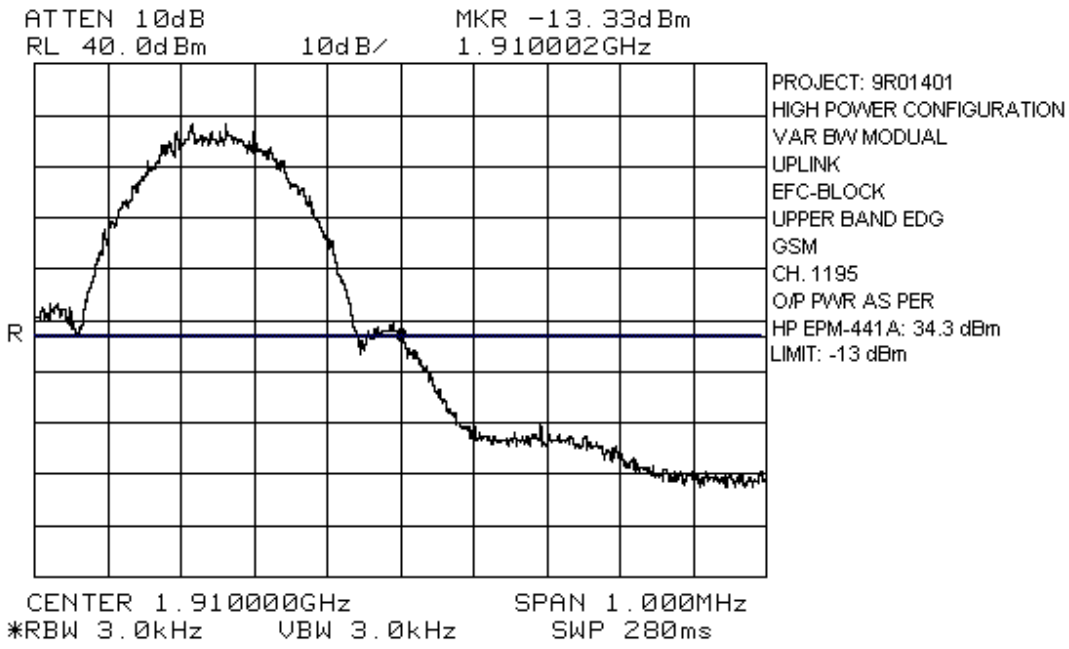

*ATTEN 0dB
MKR -16.37dBm
RL 39.8dBm
10dB/
1.88250GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
UPLINK
VAR BW MODUAL
EFC-BLOCK
2 CH INTERMODULATION PRODUCTS
GSM
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
R
LIMIT: -13 dBm
CENTER 1.89750GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

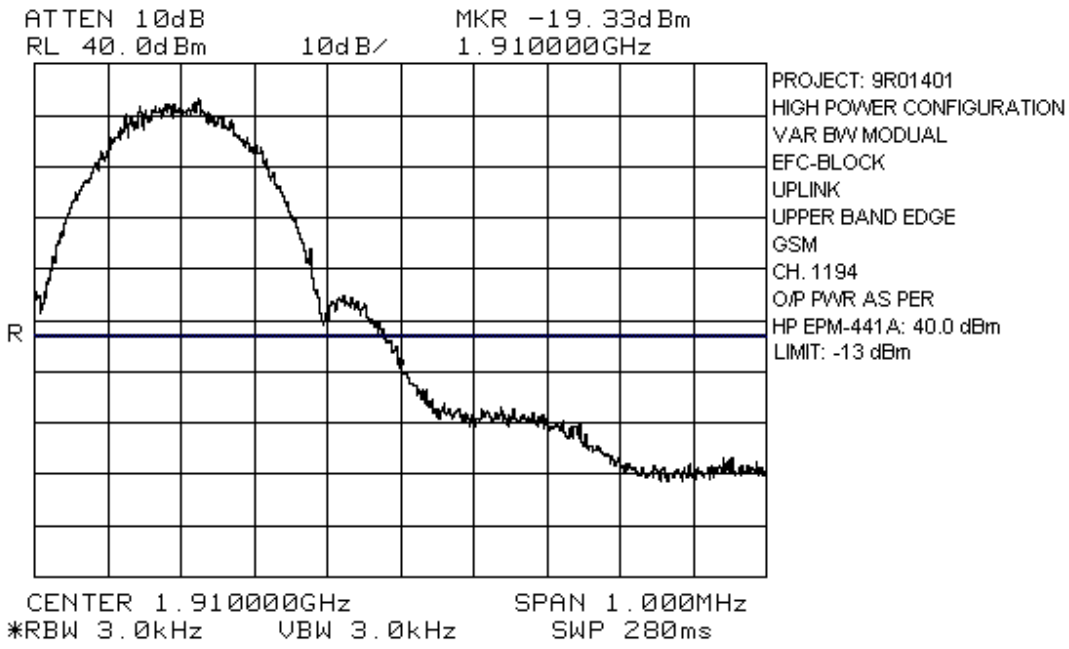

ATTEN 10dB
RL 39.8dBm
10dB/
MKR -13.03dBm
1.885000GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
LOWER BAND EDGE
GSM
CH. 704
O/P PWR AS PER
HP EPM-441A: 30.9 dBm
R
LIMIT: -13 dBm
CENTER 1.885000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

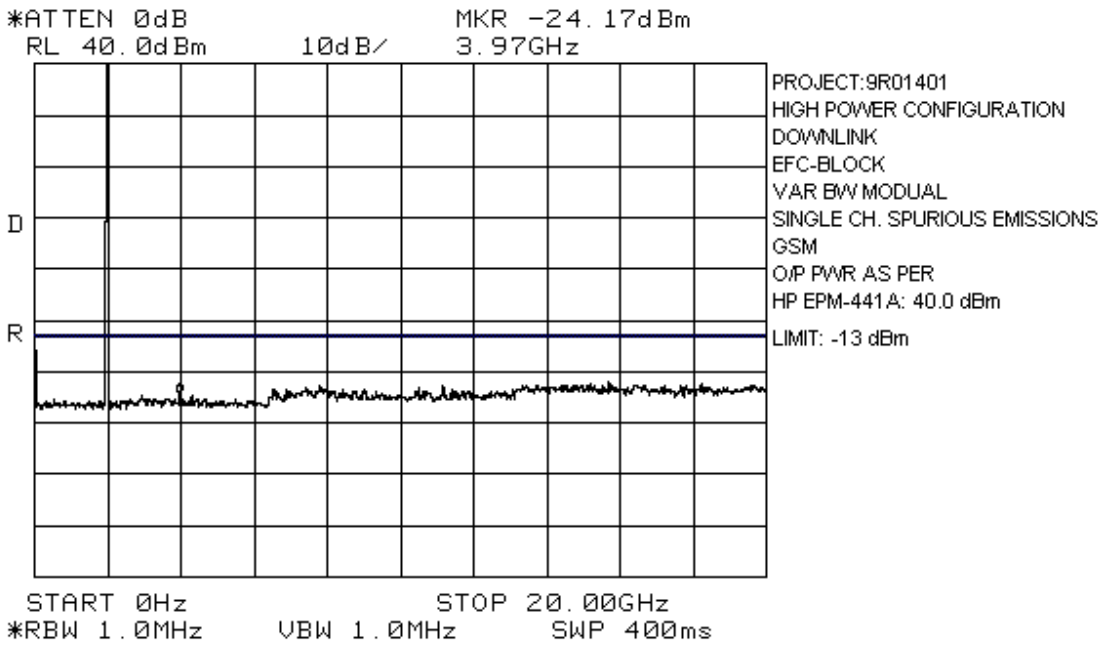

ATTEN 10dB
RL 39.8dBm
10dB/
MKR -13.37dBm
1.884993GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
GSM
CH. 705
O/P PWR AS PER
HP EPM-441A: 33.5 dBm
R
LIMIT: -13 dBm
CENTER 1.885000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

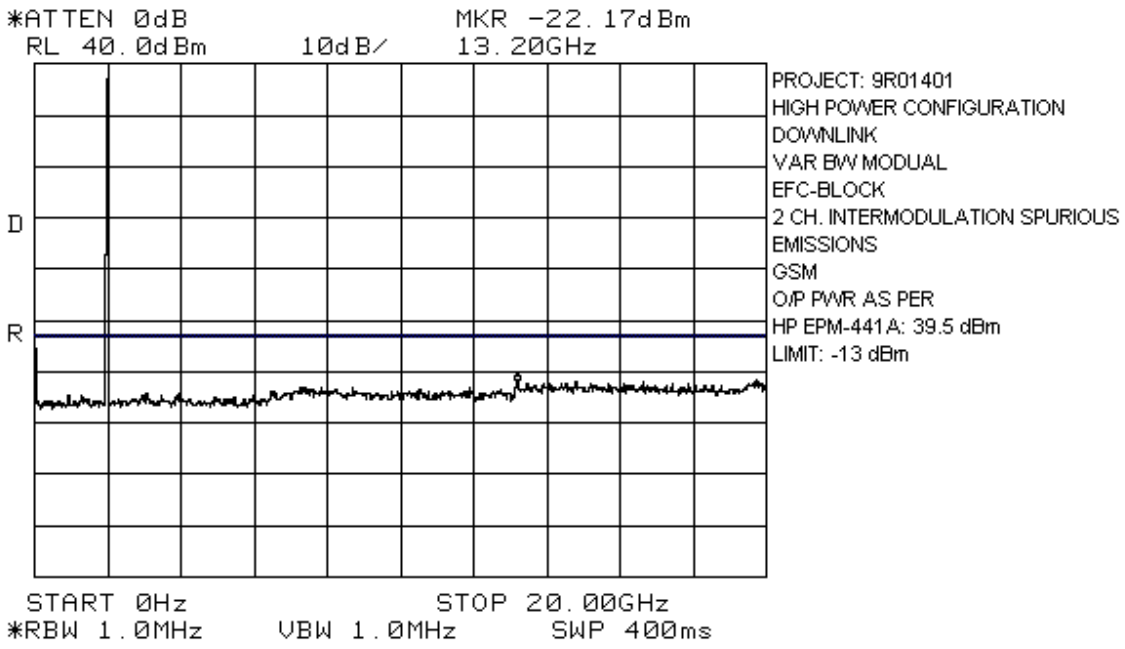

ATTEN 10dB
RL 39.8dBm
10dB/
MKR -19.03dBm
1.885000GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
UPLINK
VAR BW MODUAL
EFC-BLOCK
LOWER BAND EDGE
GSM
CH. 706
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.885000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

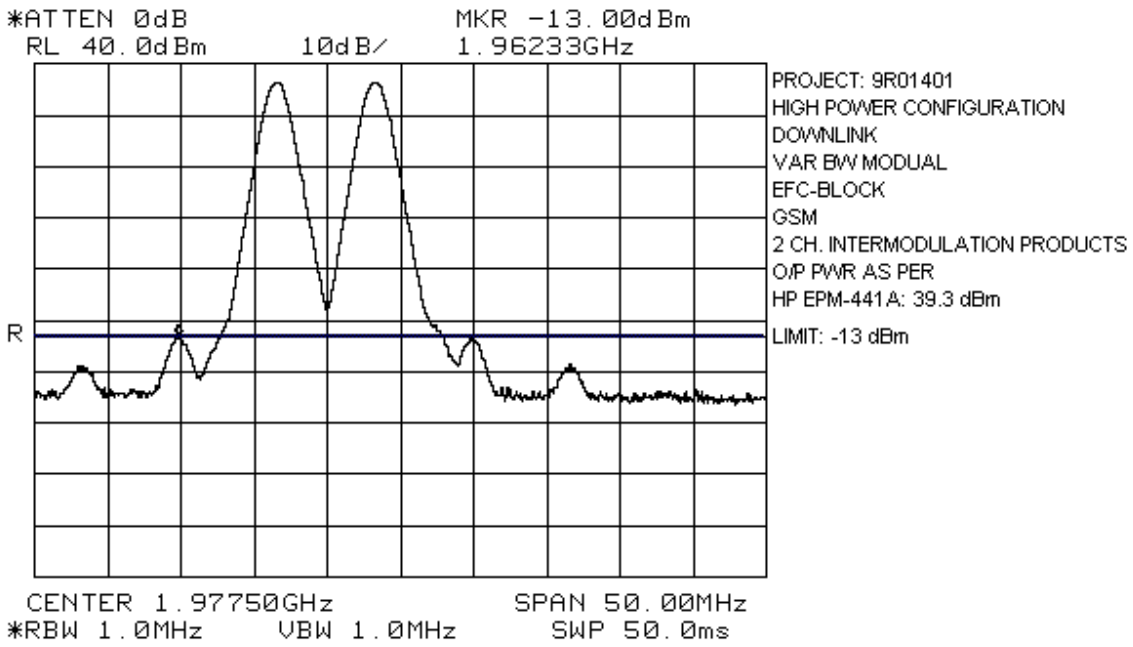

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -13.50dBm
1.910037GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
UPLINK
UPPER BAND EDGE
GSM
CH. 1196
O/P PWR AS PER
HP EPM-441A: 32.3 dBm
LIMIT; -13 dBm
CENTER 1.910000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

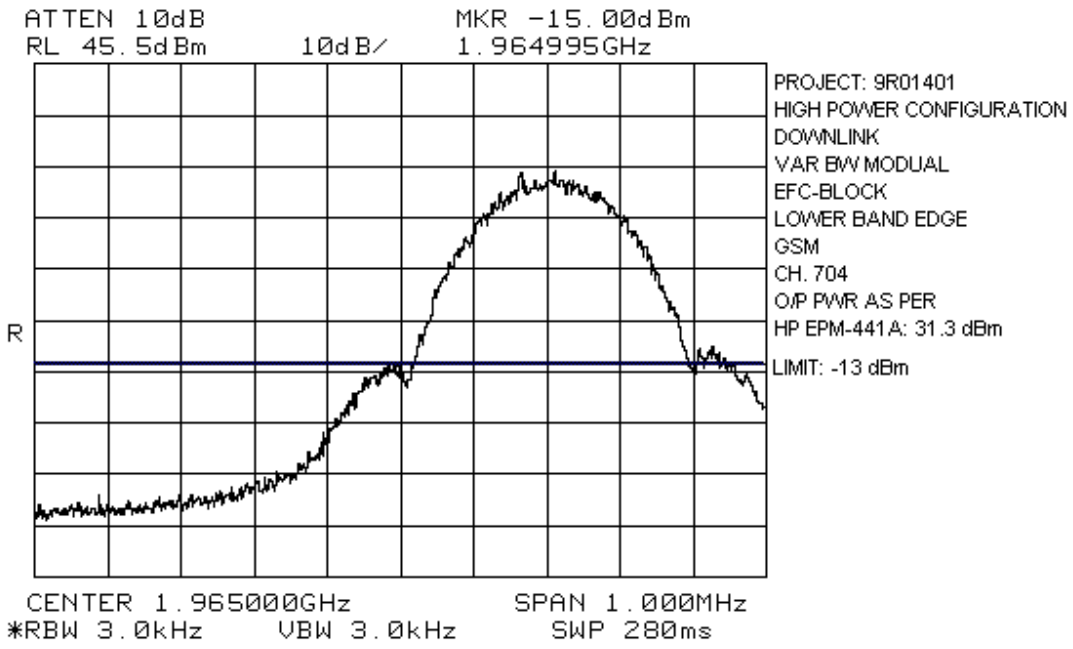

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -13.33dBm
1.910002GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
EFC-BLOCK
UPPER BAND EDG
GSM
CH. 1195
O/P PWR AS PER
HP EPM-441A: 34.3 dBm
LIMIT: -13 dBm
CENTER 1.910000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

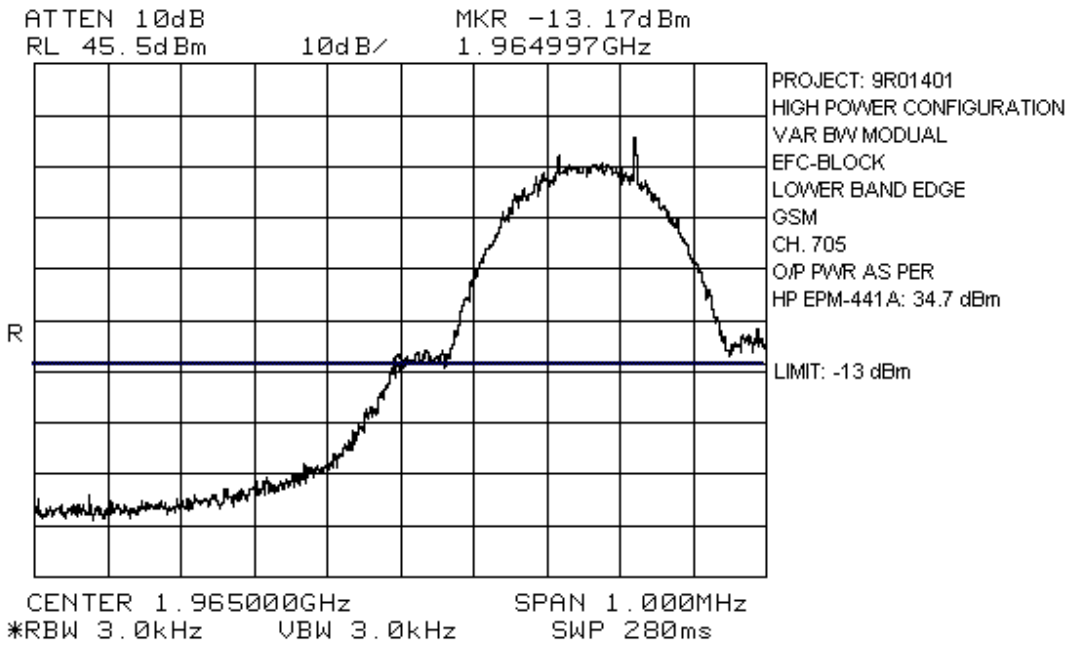

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -19.33dBm
1.910000GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
UPLINK
UPPER BAND EDGE
GSM
CH. 1194
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.910000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

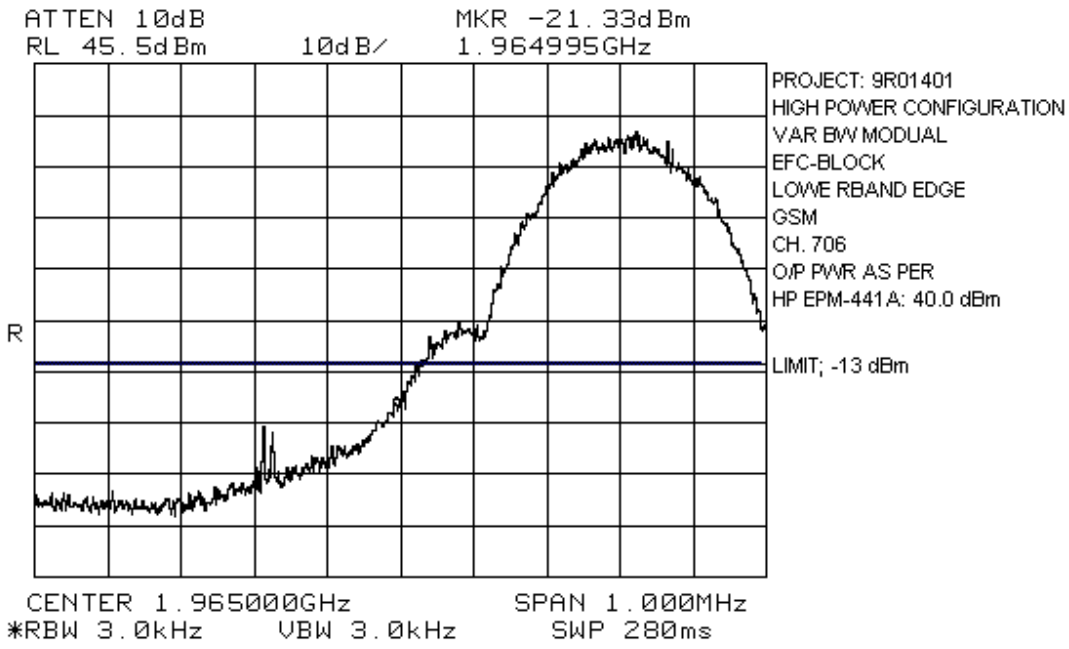

*ATTEN 0dB
MKR -24.17dBm
RL 40.0dBm
10dB/
3.97GHz
D
R
PROJECT:9R01401
HIGH POWER CONFIGURATION
DOWNLINK
EFC-BLOCK
VAR BW MODUAL
SINGLE CH. SPURIOUS EMISSIONS
GSM
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

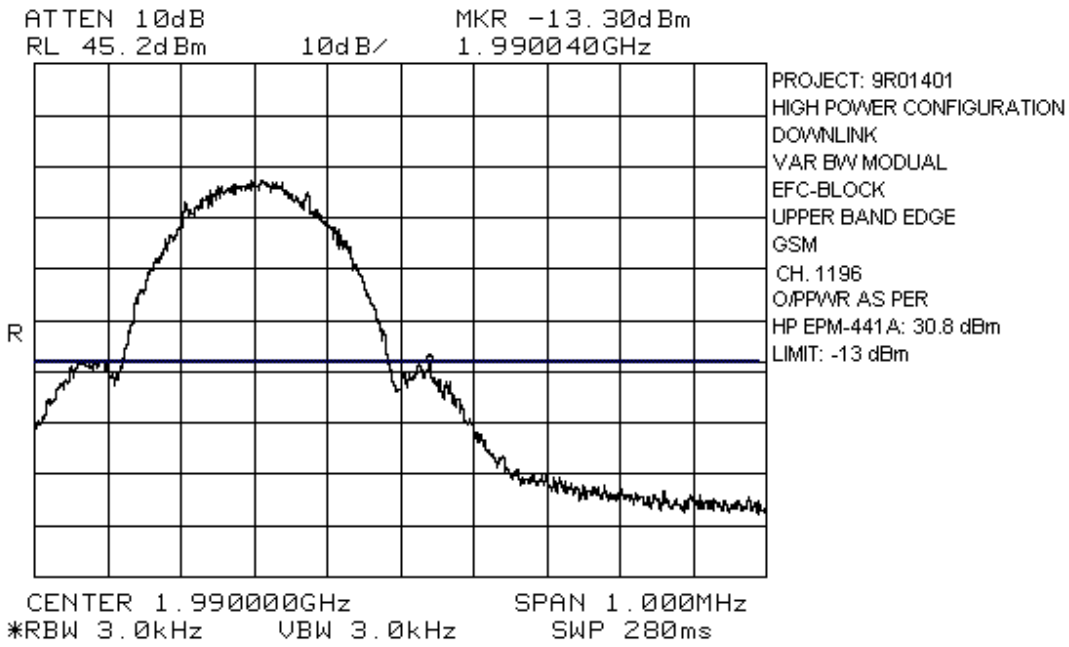

*ATTEN 0dB
MKR -22.17dBm
RL 40.0dBm
10dB/
13.20GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
2 CH. INTERMODULATION SPURIOUS EMISSIONS
GSM
O/P PWR AS PER
HP EPM-441A: 39.5 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

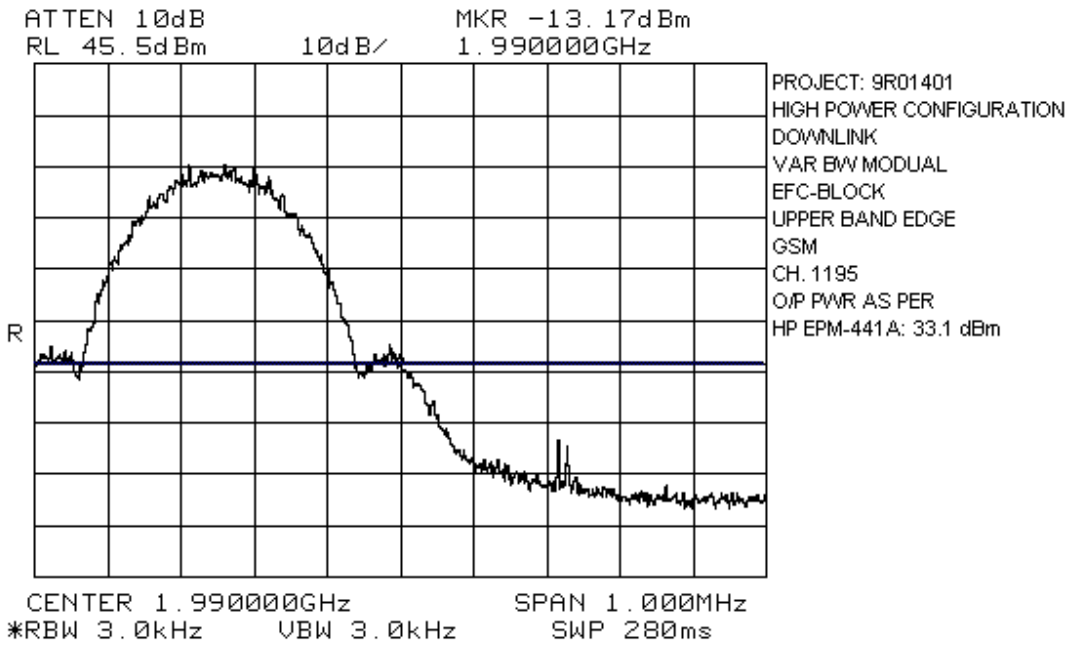

*ATTEN 0dB
MKR -13.00dBm
RL 40.0dBm
10dB/
1.96233GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
GSM
2 CH. INTERMODULATION PRODUCTS
O/P PWR AS PER
HP EPM-441A: 39.3 dBm
R
LIMIT: -13 dBm
CENTER 1.97750GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

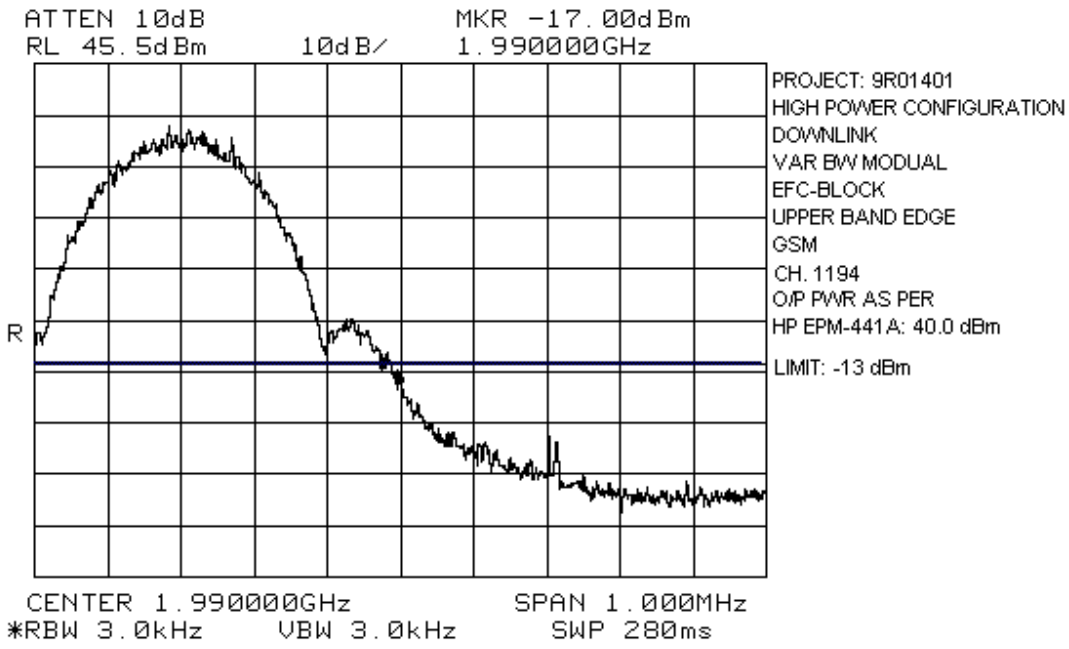

ATTEN 10dB
RL 45.5dBm
10dB/
MKR -15.00dBm
1.964995GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
LOWER BAND EDGE
GSM
CH. 704
O/P PWR AS PER
HP EPM-441A: 31.3 dBm
LIMIT: -13 dBm
CENTER 1.965000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

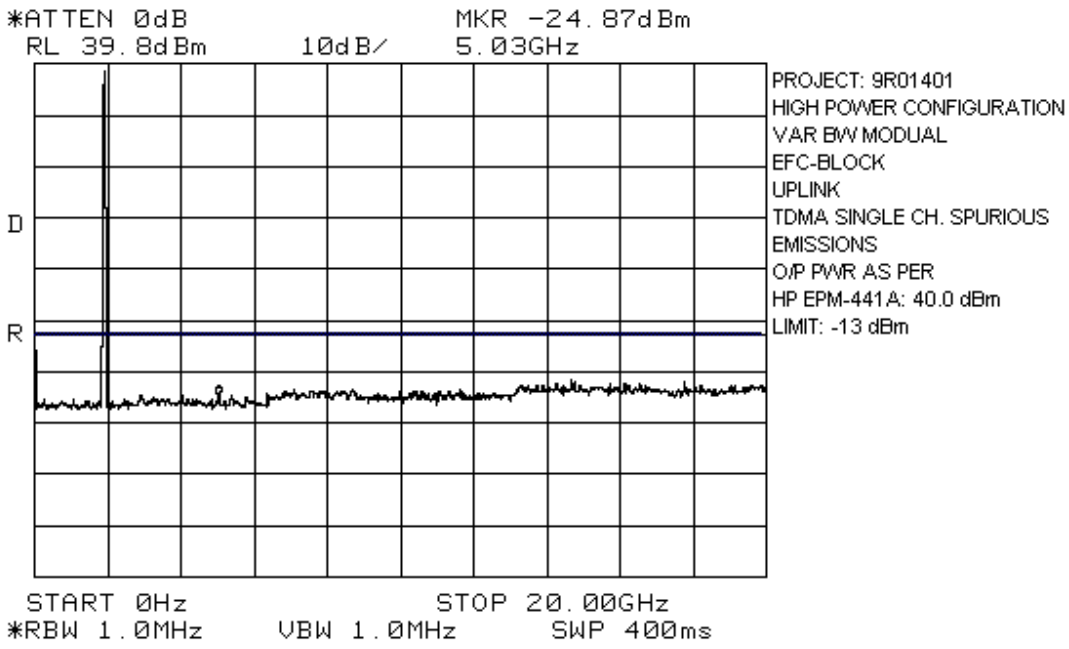

ATTEN 10dB
RL 45.5dBm
10dB/
MKR -13.17dBm
1.964997GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
LOWER BAND EDGE
GSM
CH. 705
O/P PWR AS PER
HP EPM-441A: 34.7 dBm
R
LIMIT: -13 dBm
CENTER 1.965000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

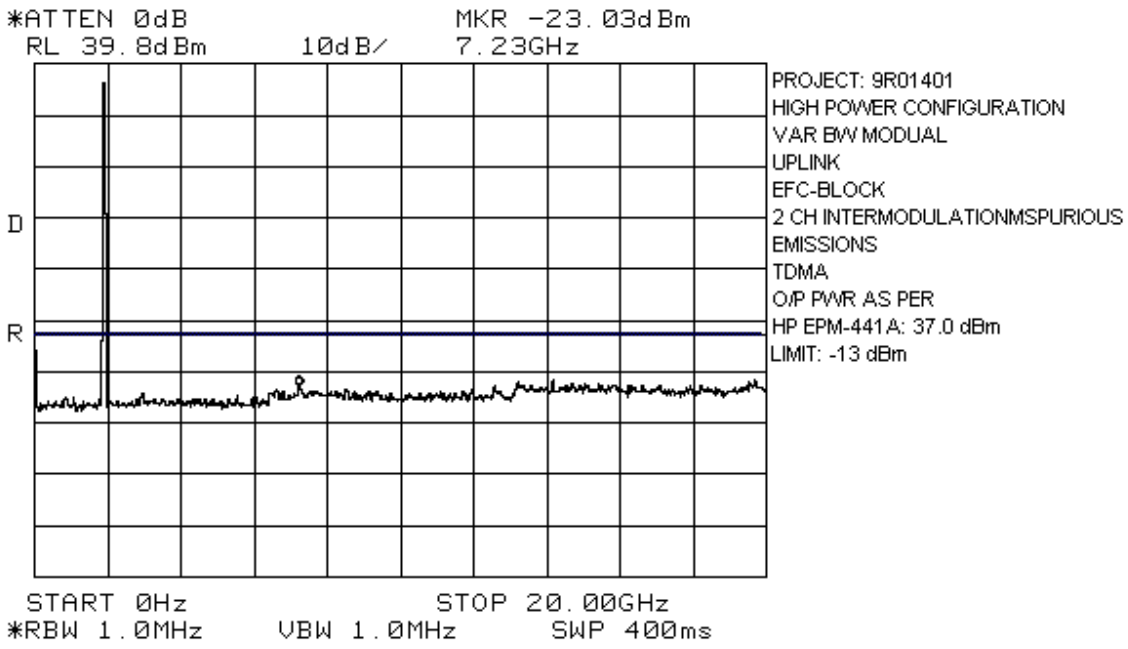

ATTEN 10dB
RL 45.5dBm
10dB/
MKR -21.33dBm
1.964995GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
LOWE RBAND EDGE
GSM
CH. 706
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
R
LIMIT; -13 dBm
CENTER 1.965000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

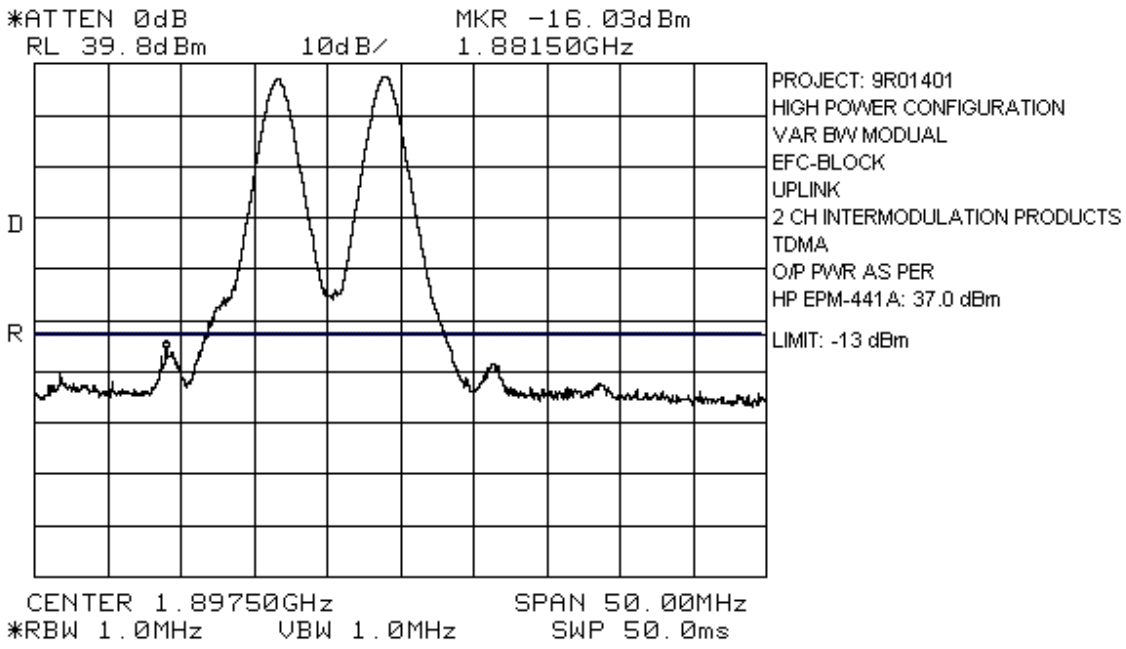

ATTEN 10dB
RL 45.2dBm
10dB/
MKR -13.30dBm
1.990040GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
UPPER BAND EDGE
GSM
CH. 1196
O/PPWR AS PER
HP EPM-441A: 30.8 dBm
LIMIT: -13 dBm
CENTER 1.990000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

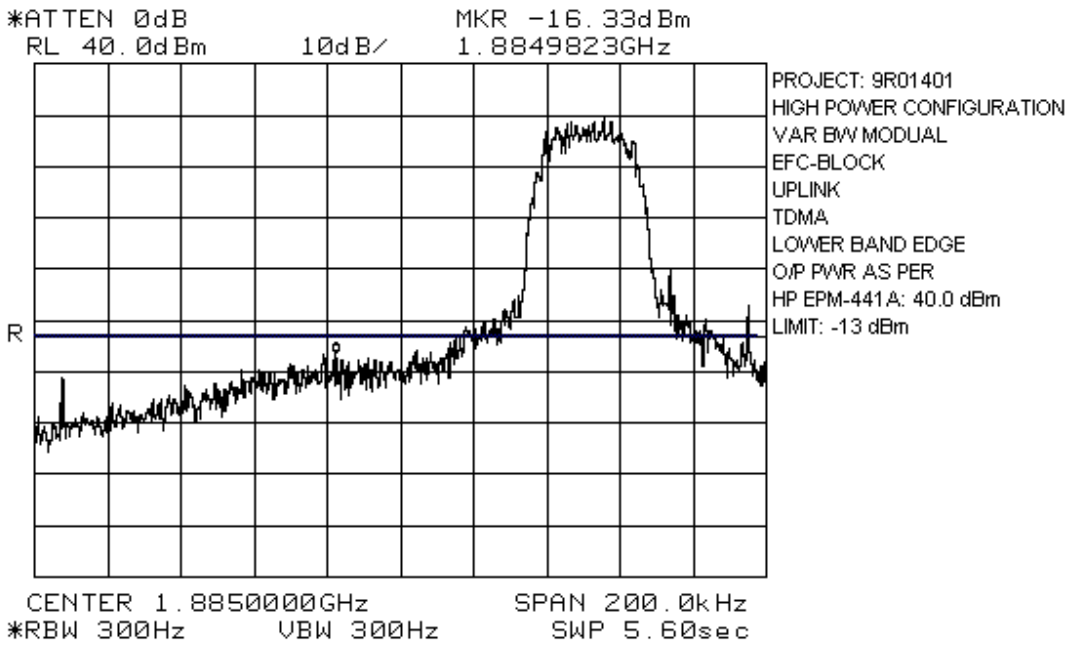

ATTEN 10dB
RL 45.5dBm
10dB/
MKR -13.17dBm
1.990000GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
UPPER BAND EDGE
GSM
CH. 1195
O/P PWR AS PER
HP EPM-441A: 33.1 dBm
CENTER 1.990000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

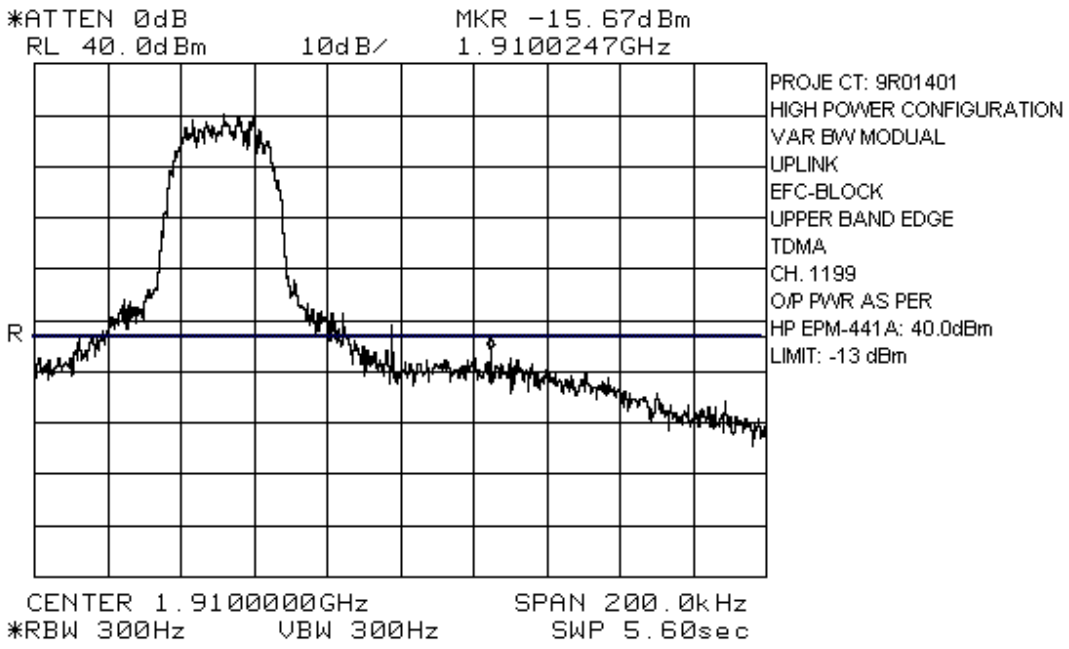

ATTEN 10dB
RL 45.5dBm
10dB/
MKR -17.00dBm
1.990000GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
VAR BW MODUAL
EFC-BLOCK
UPPER BAND EDGE
GSM
CH. 1194
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.990000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

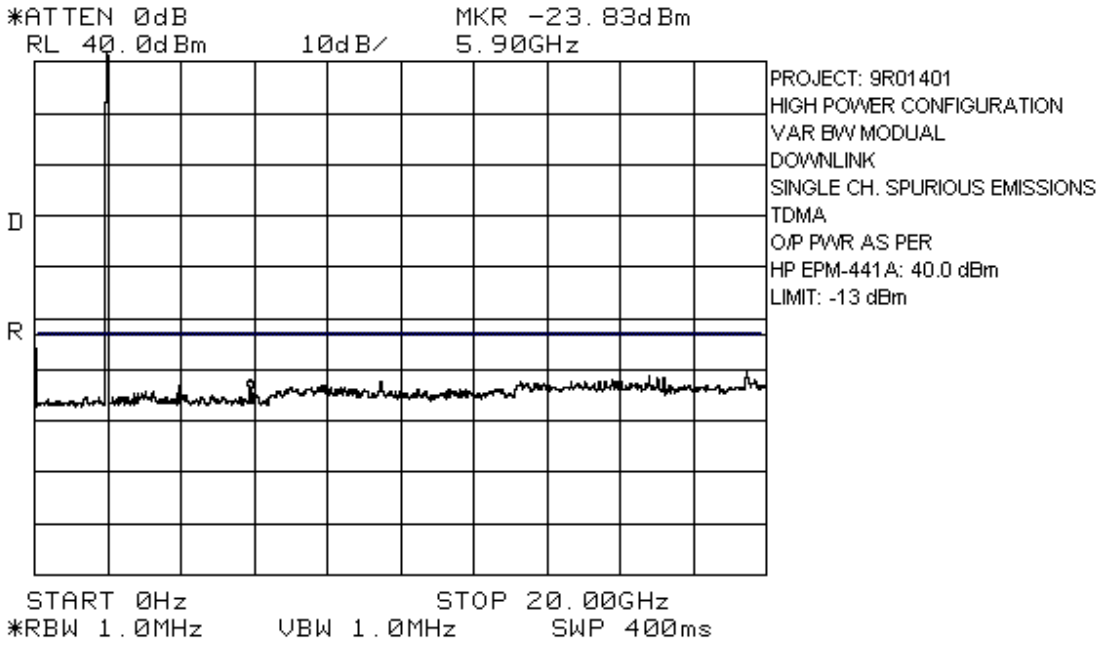

*ATTEN 0dB
MKR -24.87dBm
RL 39.8dBm
10dB/
5.03GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
UPLINK
TDMA SINGLE CH. SPURIOUS
EMISSIONS
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

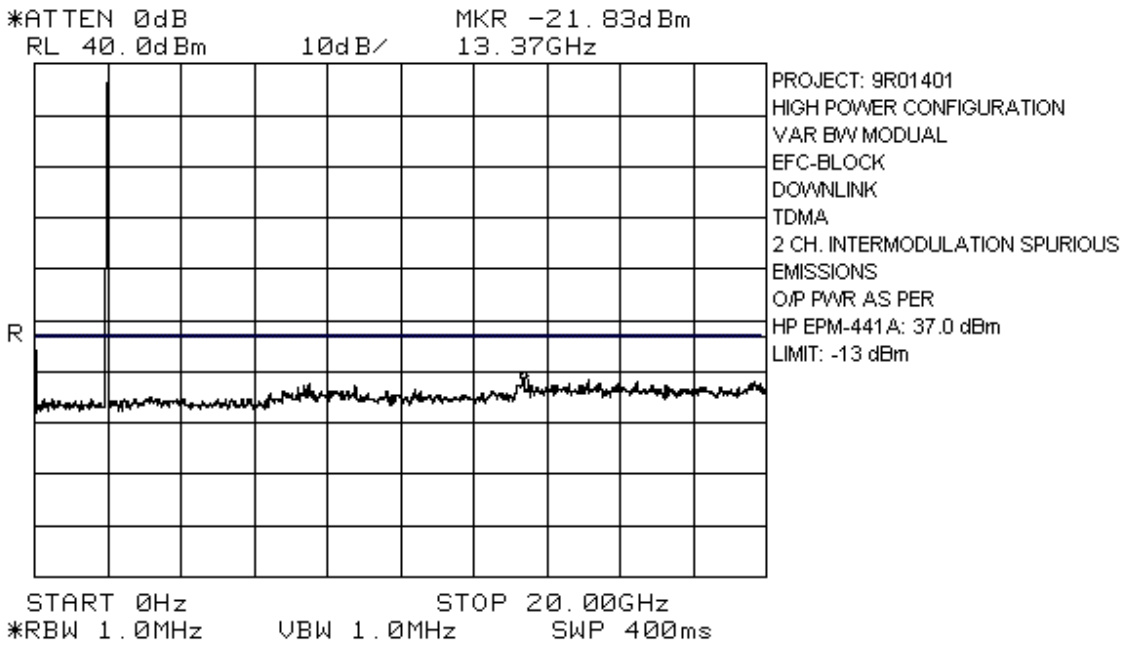

*ATTEN 0dB
MKR -23.03dBm
RL 39.8dBm
10dB/
7.23GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
EFC-BLOCK
2 CH INTERMODULATIONMSPURIOUS
EMISSIONS
TDMA
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

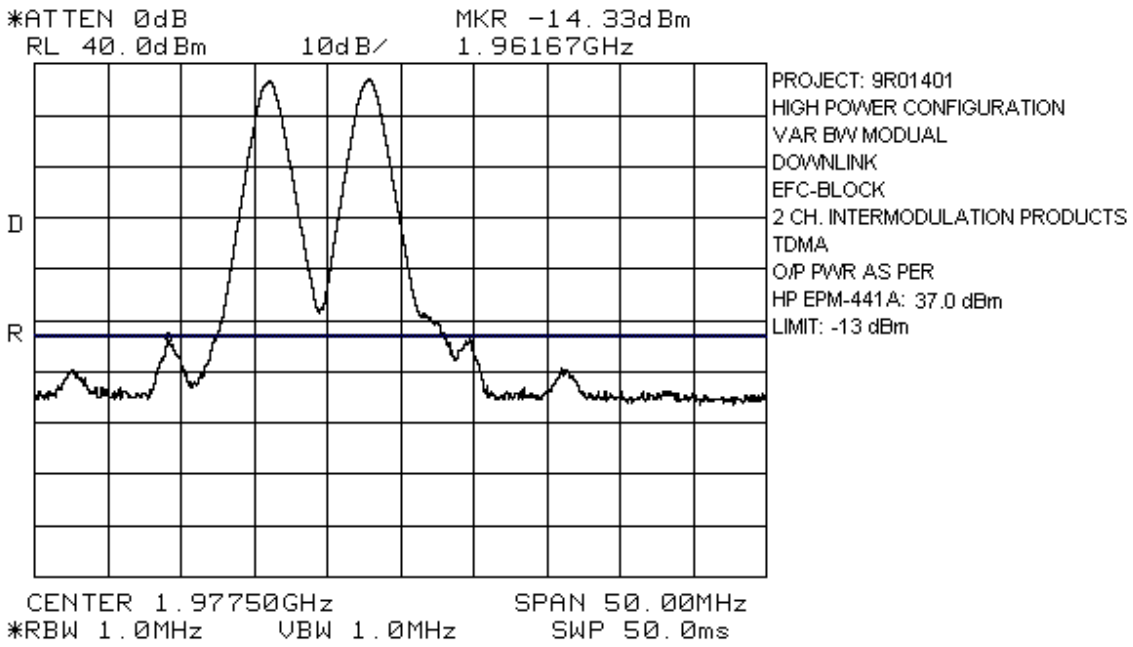

*ATTEN 0dB
MKR -16.03dBm
RL 39.8dBm
10dB/
1.88150GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
UPLINK
2 CH INTERMODULATION PRODUCTS
TDMA
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.89750GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

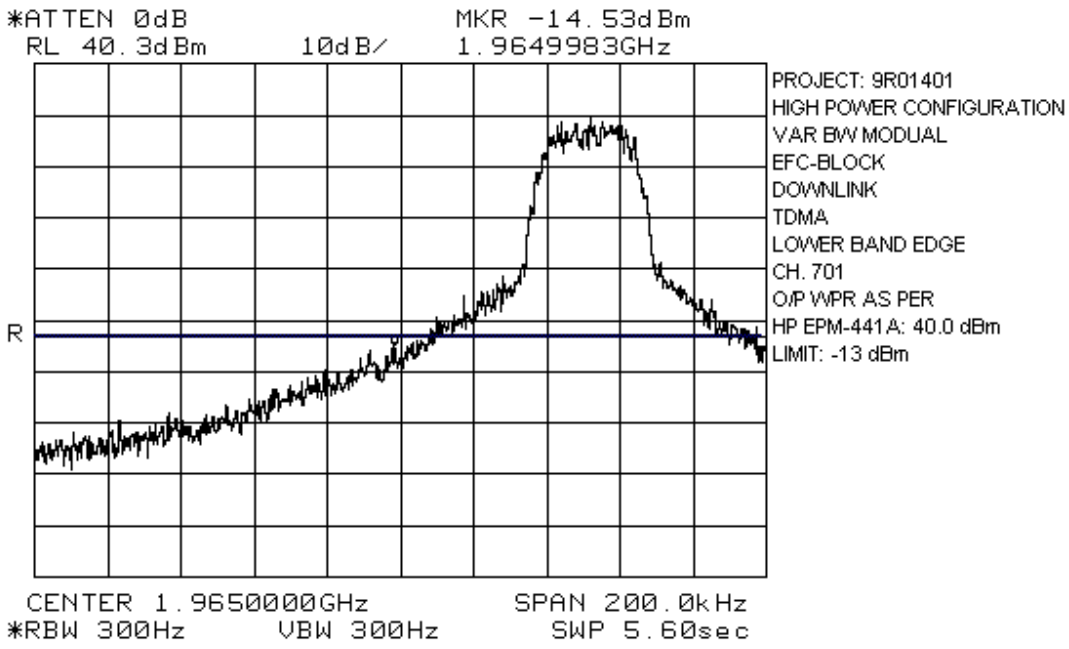

*ATTEN 0dB
MKR -16.33dBm
RL 40.0dBm
10dB/
1.8849823GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
UPLINK
TDMA
LOWER BAND EDGE
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
R
CENTER 1.8850000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

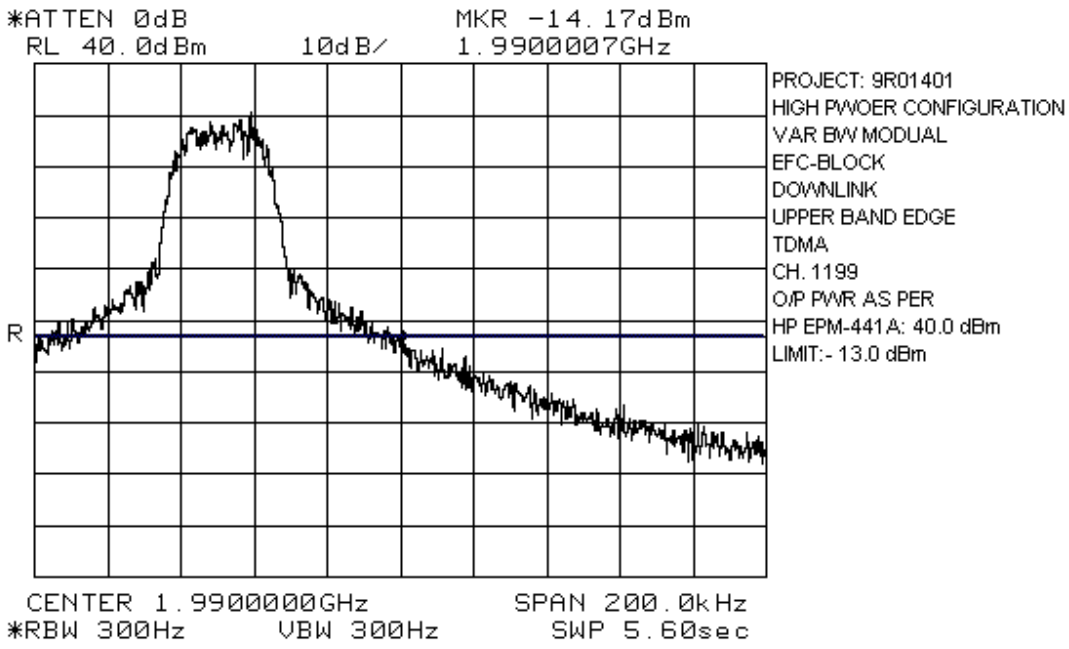

*ATTEN 0dB
MKR -15.67dBm
RL 40.0dBm
10dB/
1.9100247GHz
R
PROJE CT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
UPLINK
EFC-BLOCK
UPPER BAND EDGE
TDMA
CH. 1199
O/P PWR AS PER
HP EPM-441A: 40.0dBm
LIMIT: -13 dBm
CENTER 1.9100000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec


*ATTEN 0dB
MKR -23.83dBm
RL 40.0dBm
10dB/
5.90GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
DOWNLINK
SINGLE CH. SPURIOUS EMISSIONS
TDMA
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

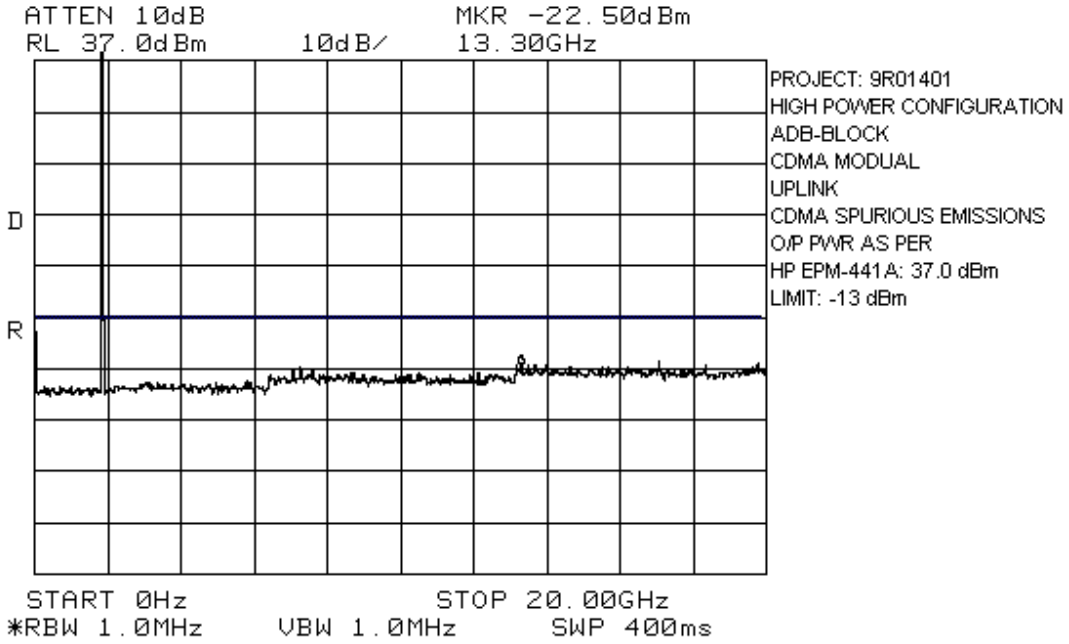

*ATTEN 0dB
MKR -21.83dBm
RL 40.0dBm
10dB/
13.37GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
DOWNLINK
TDMA
2 CH. INTERMODULATION SPURIOUS EMISSIONS
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

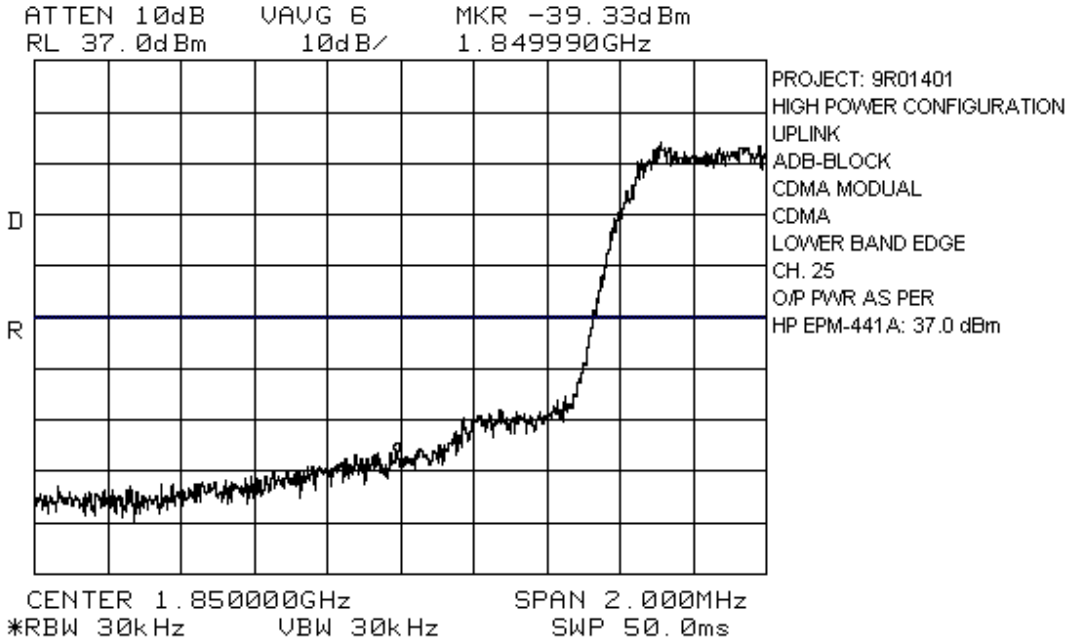

*ATTEN 0dB
MKR -14.33dBm
RL 40.0dBm
10dB/
1.96167GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
DOWNLINK
EFC-BLOCK
2 CH. INTERMODULATION PRODUCTS
TDMA
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.97750GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

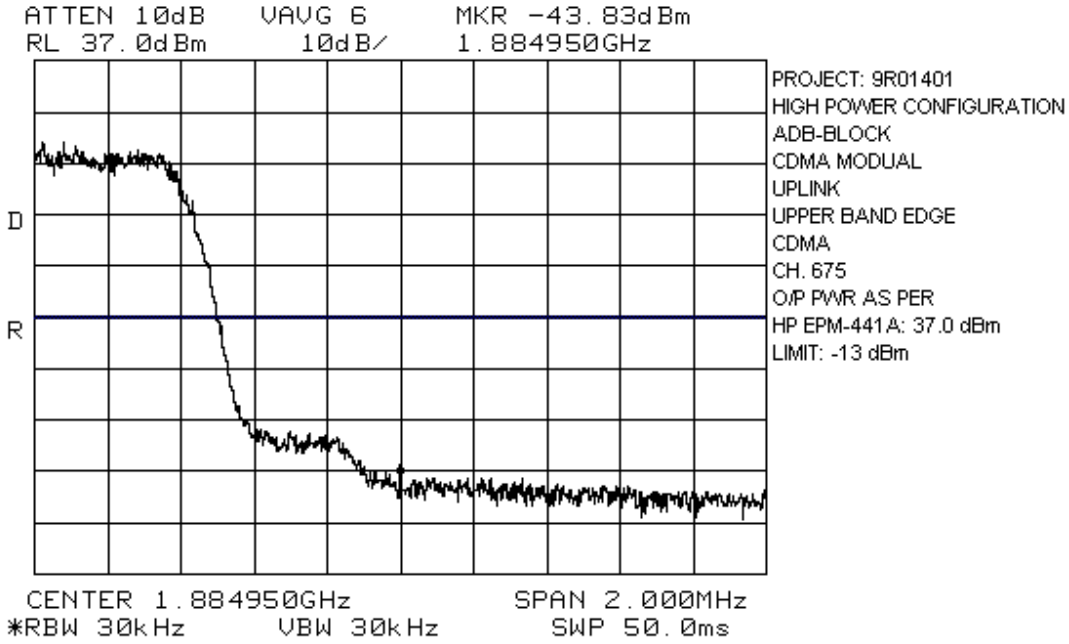

*ATTEN 0dB
MKR -14.53dBm
RL 40.3dBm
10dB/
1.9649983GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
DOWNLINK
TDMA
LOWER BAND EDGE
CH. 701
O/P WPR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
R
CENTER 1.9650000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

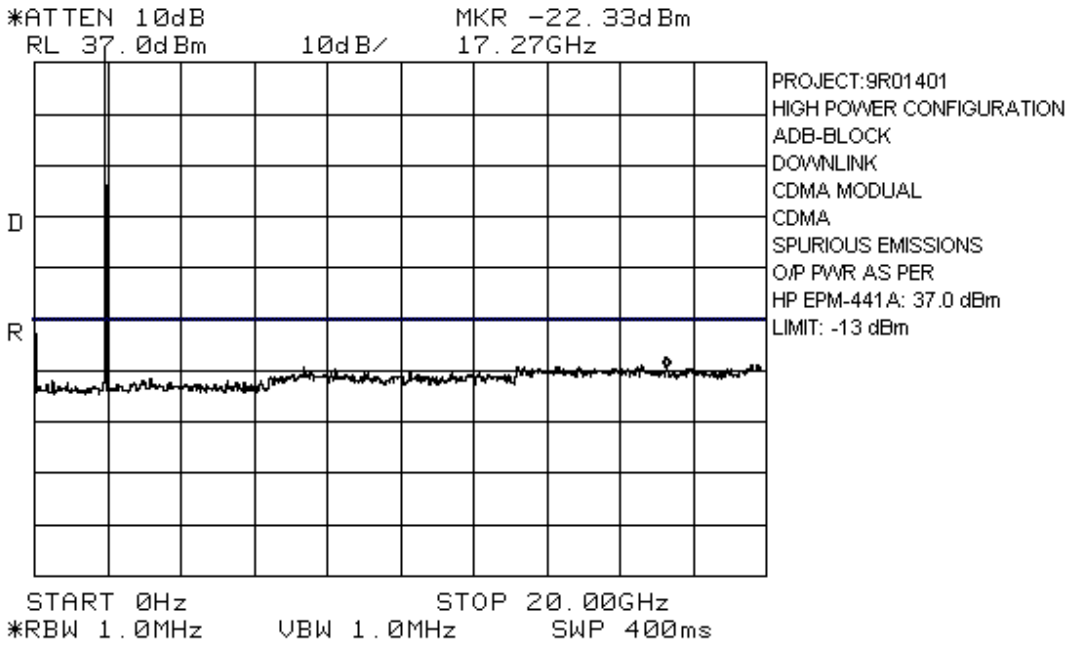

*ATTEN 0dB
MKR -14.17dBm
RL 40.0dBm
10dB/
1.9900007GHz
R
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
VAR BW MODUAL
EFC-BLOCK
DOWNLINK
UPPER BAND EDGE
TDMA
CH. 1199
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT:- 13.0 dBm
CENTER 1.9900000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

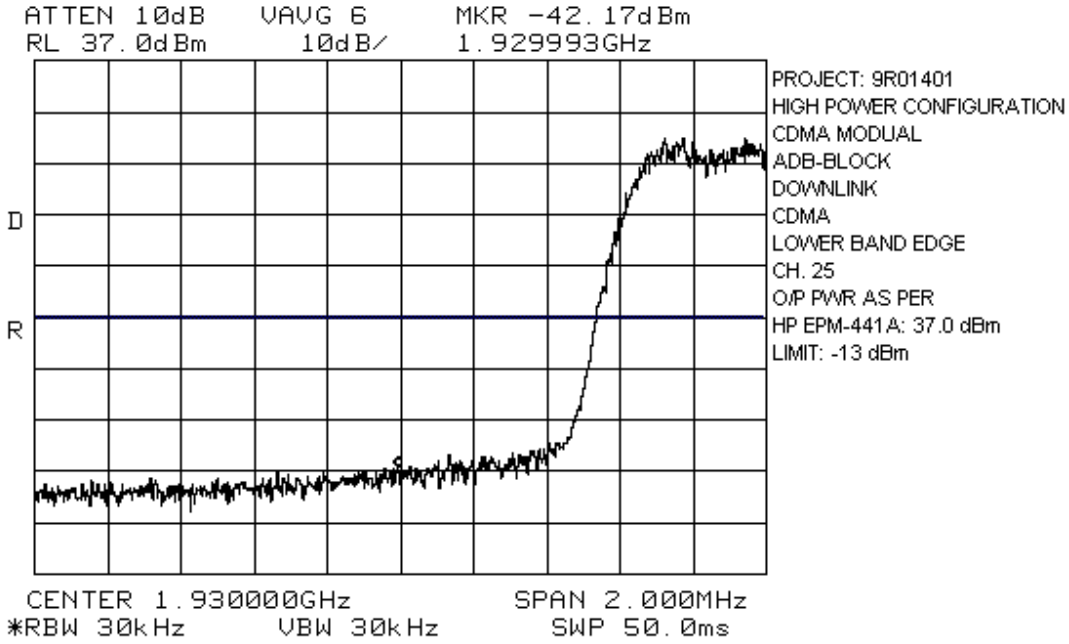
Single Channel – Basic CDMA Module

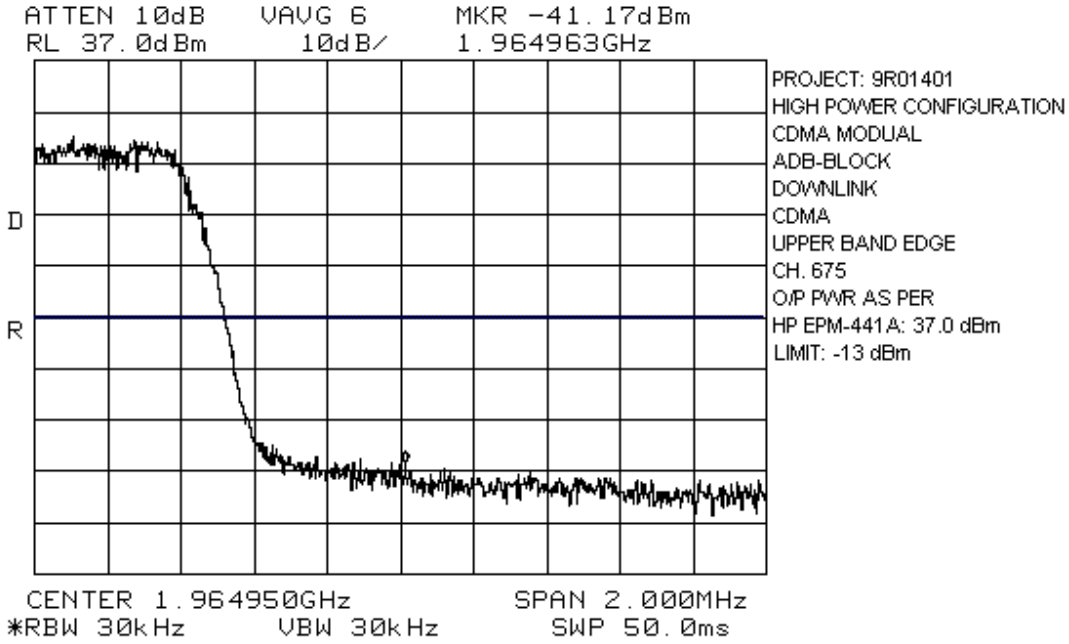

ATTEN 10dB
RL 37.0dBm
10dB/
MKR -22.50dBm
13.30GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
CDMA MODUAL
UPLINK
CDMA SPURIOUS EMISSIONS
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

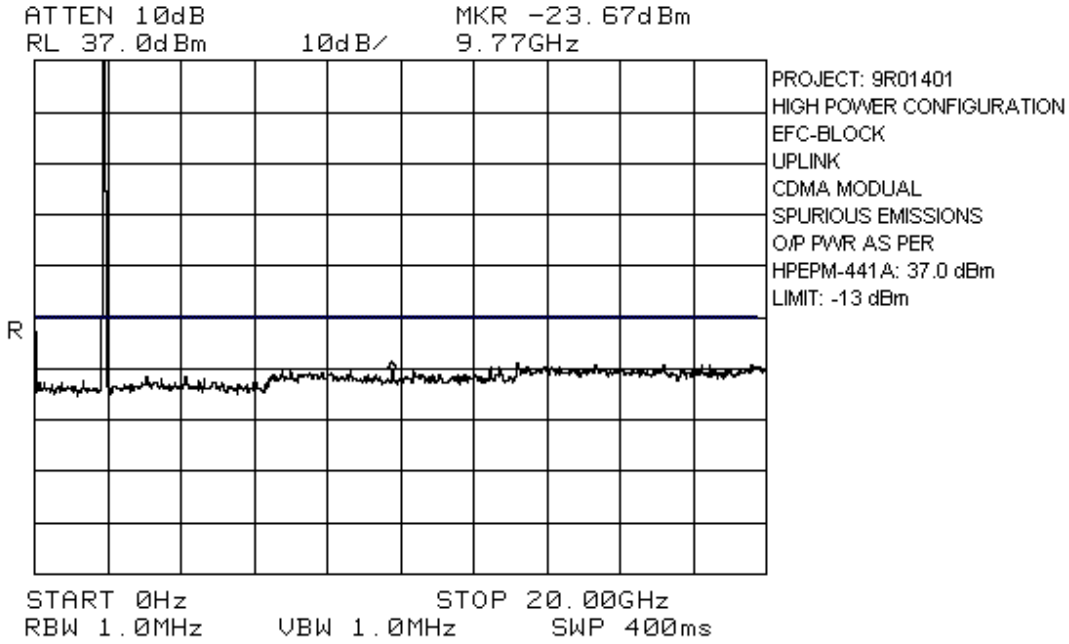

ATTEN 10dB
RL 37.0dBm
VAVG 6
10dB/
MKR -39.33dBm
1.849990GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
UPLINK
ADB-BLOCK
CDMA MODUAL
CDMA
LOWER BAND EDGE
CH. 25
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
CENTER 1.850000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

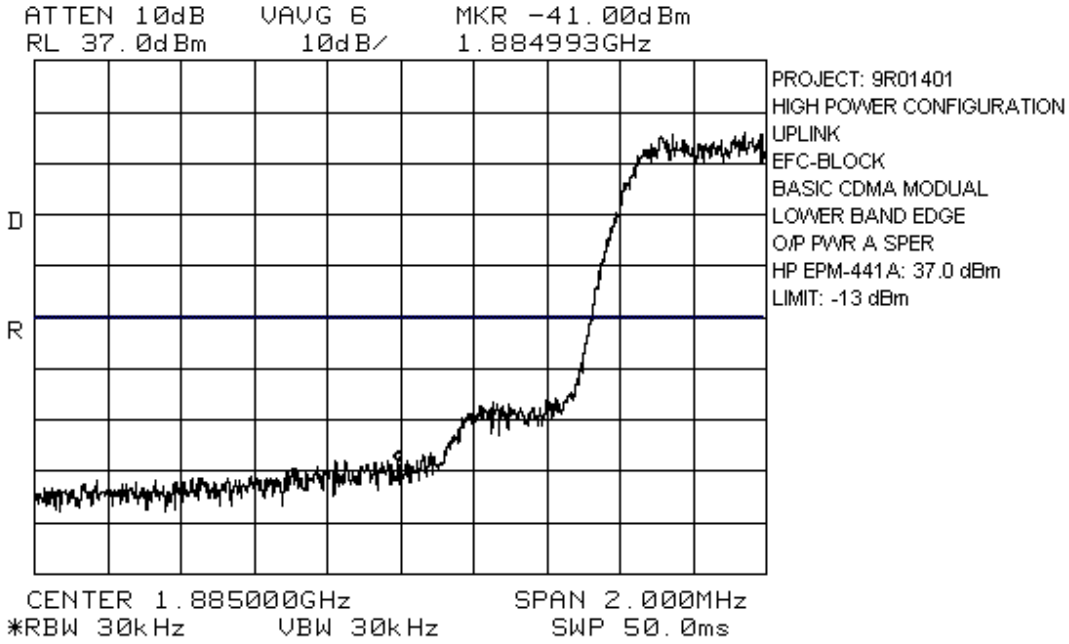

ATTEN 10dB
RL 37.0dBm
VAVG 6
10dB/
MKR -43.83dBm
1.884950GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
CDMA MODUAL
UPLINK
UPPER BAND EDGE
CDMA
CH. 675
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.884950GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

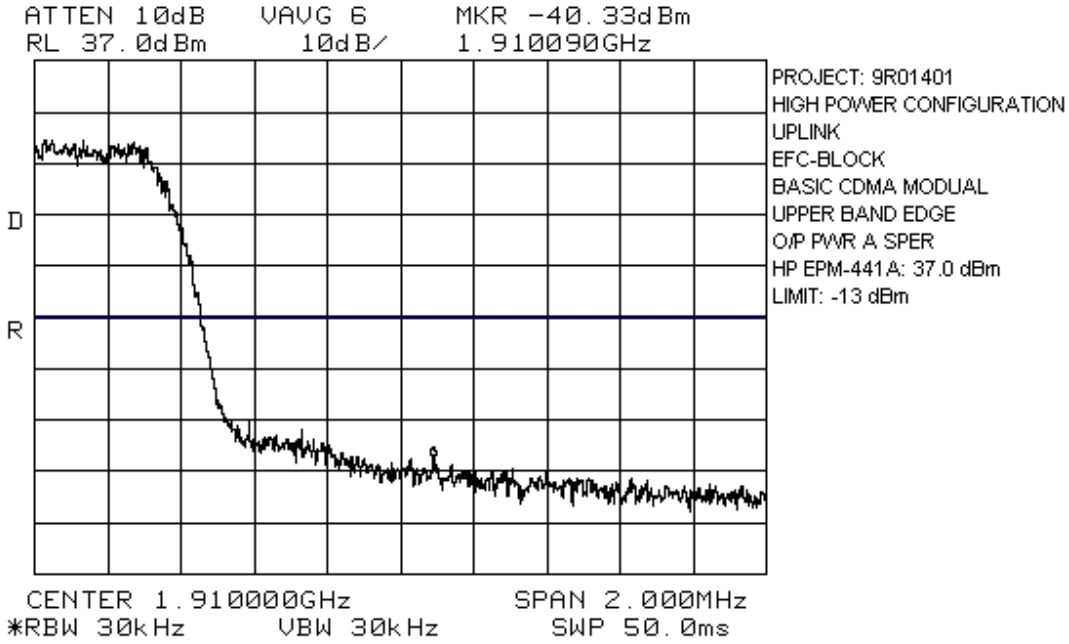

*ATTEN 10dB
MKR -22.33dBm
RL 37.0dBm
10dB/
17.27GHz
D
R
PROJECT:9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
CDMA MODUAL
CDMA
SPURIOUS EMISSIONS
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

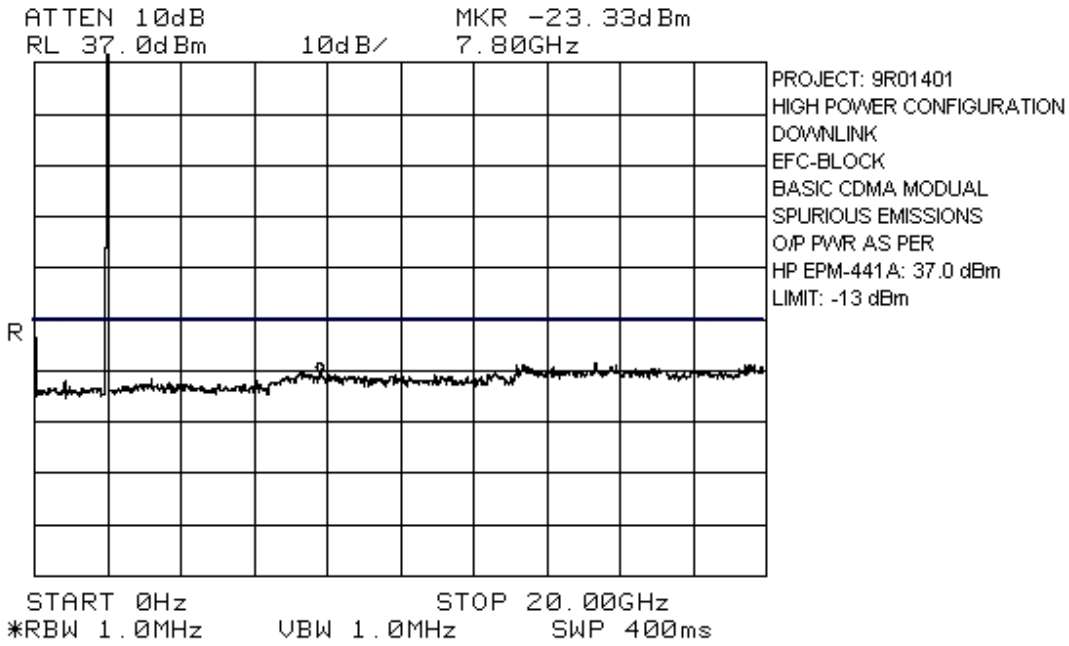

ATTEN 10dB
RL 37.0dBm
VAVG 6
10dB/
MKR -42.17dBm
1.929993GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
CDMA MODUAL
ADB-BLOCK
DOWNLINK
CDMA
LOWER BAND EDGE
CH. 25
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.930000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

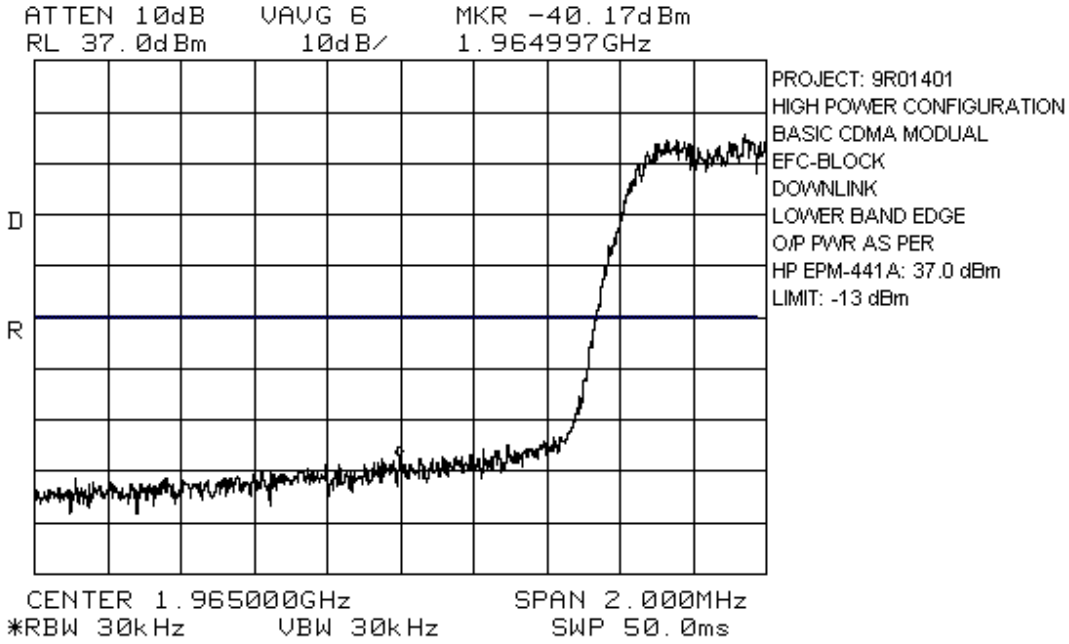

ATTEN 10dB
VAVG 6
MKR -41.17dBm
RL 37.0dBm
10dB/
1.964963GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
CDMA MODUAL
ADB-BLOCK
DOWNLINK
CDMA
UPPER BAND EDGE
CH. 675
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.964950GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

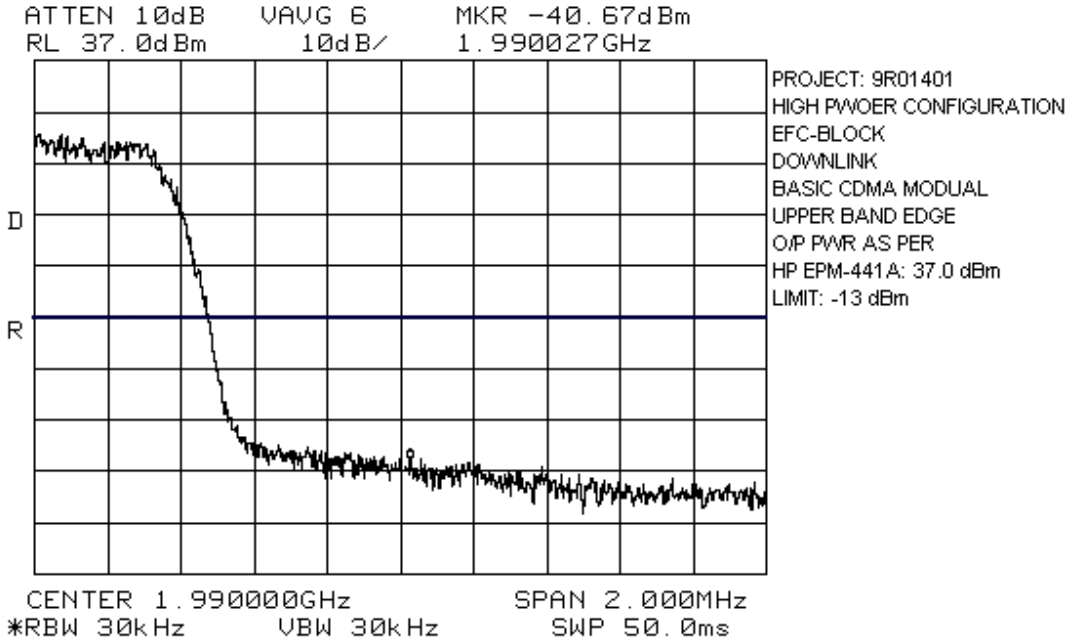

ATTEN 10dB
RL 37.0dBm
10dB/
MKR -23.67dBm
9.77GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
UPLINK
CDMA MODUAL
SPURIOUS EMISSIONS
O/P PWR AS PER
HPEPM-441A: 37.0 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
RBW 1.0MHz
VBW 1.0MHz
SWP 400ms


ATTEN 10dB
VAVG 6
MKR -41.00dBm
RL 37.0dBm
10dB/
1.884993GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
UPLINK
EFC-BLOCK
BASIC CDMA MODUAL
LOWER BAND EDGE
O/P PWR A SPER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.885000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

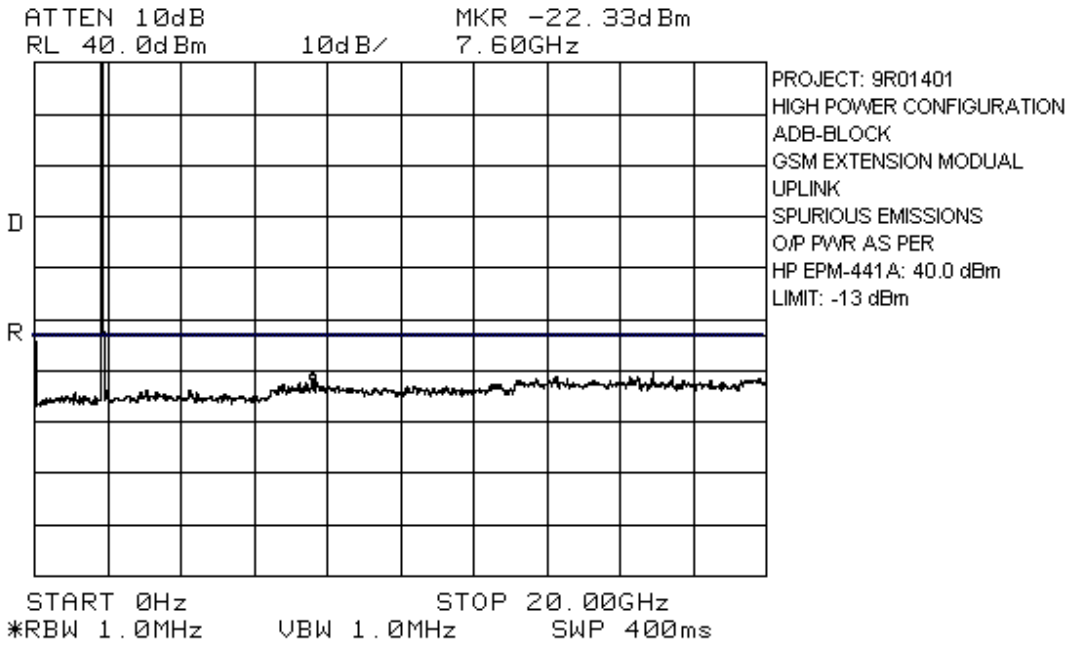

ATTEN 10dB
RL 37.0dBm
VAVG 6
10dB/
MKR -40.33dBm
1.910090GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
UPLINK
EFC-BLOCK
BASIC CDMA MODUAL
UPPER BAND EDGE
O/P PWR A SPER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.910000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

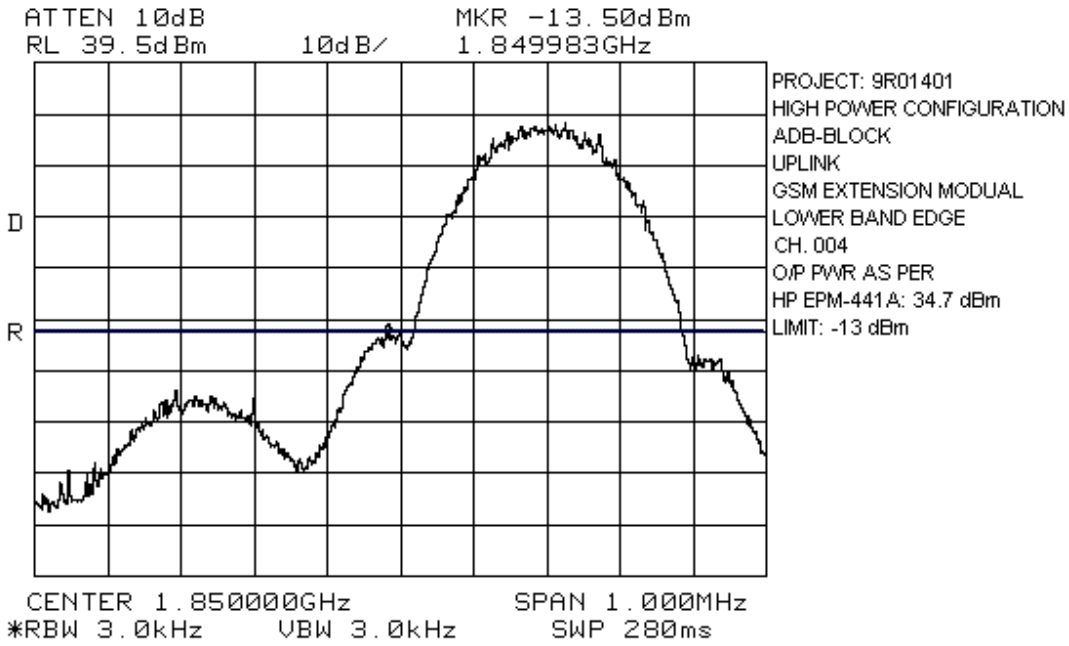

ATTEN 10dB
RL 37.0dBm
10dB/
MKR -23.33dBm
7.80GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
EFC-BLOCK
BASIC CDMA MODUAL
SPURIOUS EMISSIONS
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

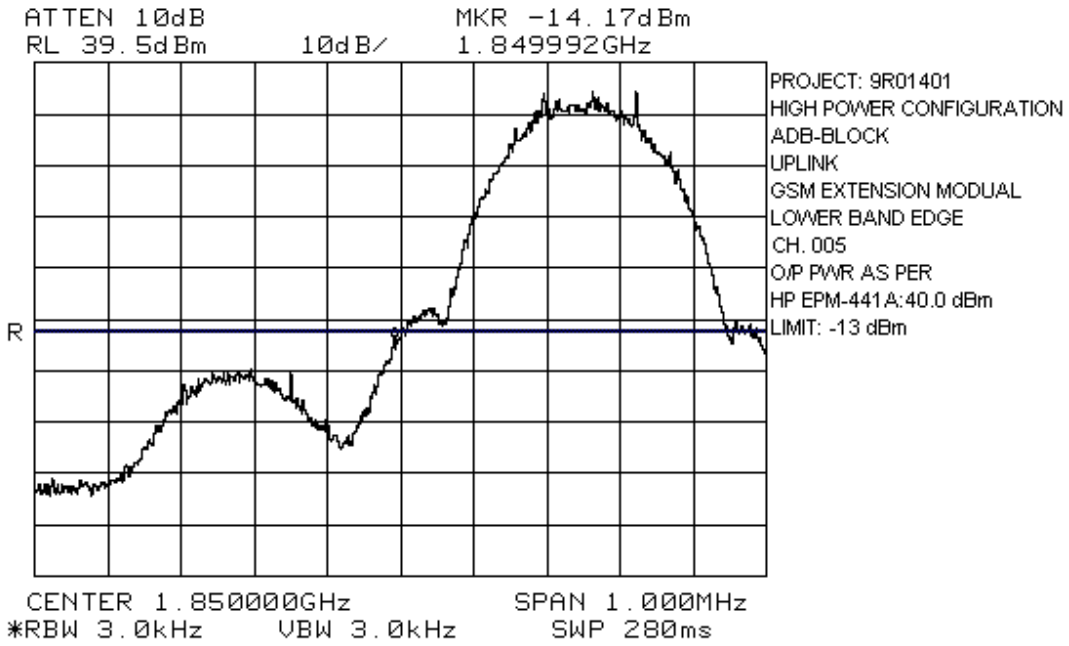

ATTEN 10dB
RL 37.0dBm
VAVG 6
10dB/
MKR -40.17dBm
1.964997GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
BASIC CDMA MODUAL
EFC-BLOCK
DOWNLINK
LOWER BAND EDGE
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.965000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

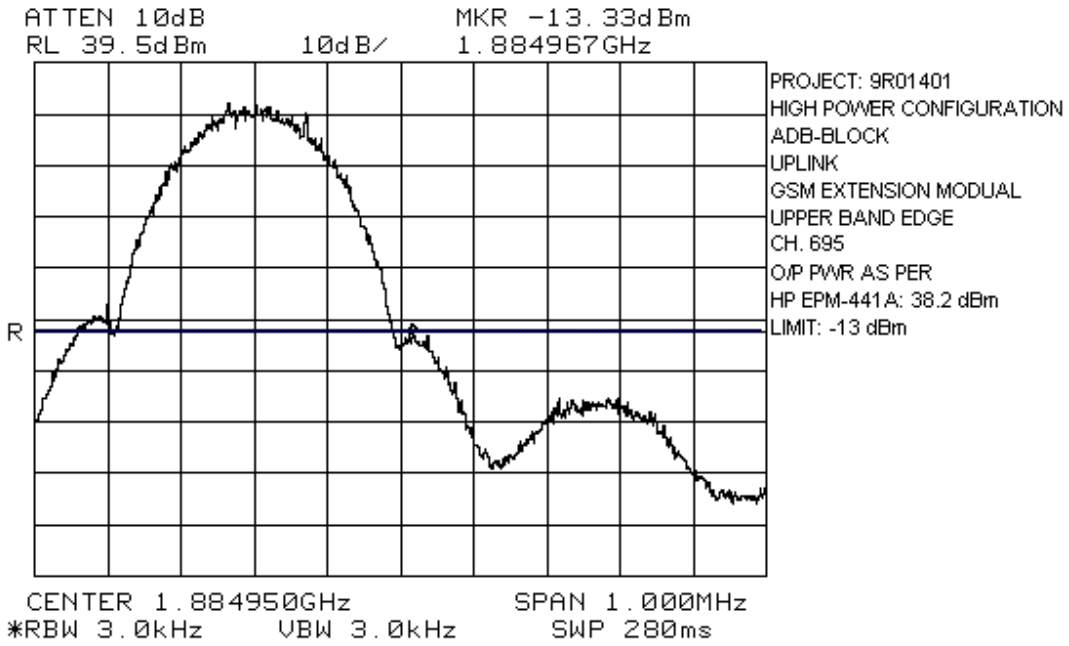

ATTEN 10dB
RL 37.0dBm
VAVG 6
10dB/
MKR -40.67dBm
1.990027GHz
D
R
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
EFC-BLOCK
DOWNLINK
BASIC CDMA MODUAL
UPPER BAND EDGE
O/P PWR AS PER
HP EPM-441A: 37.0 dBm
LIMIT: -13 dBm
CENTER 1.990000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

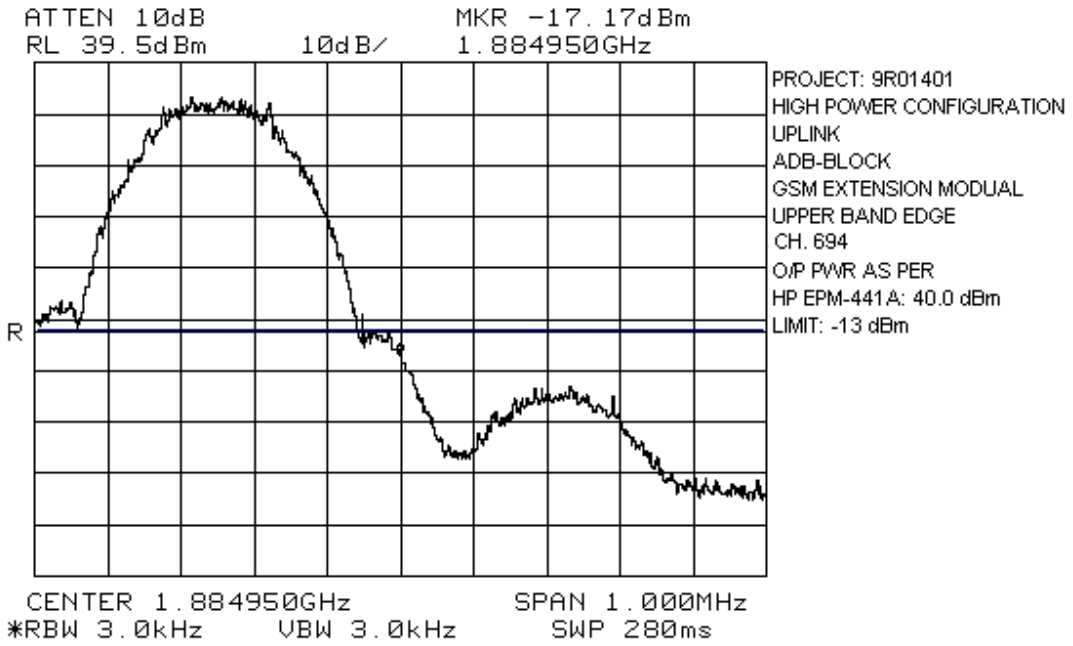
GSM Extension Module

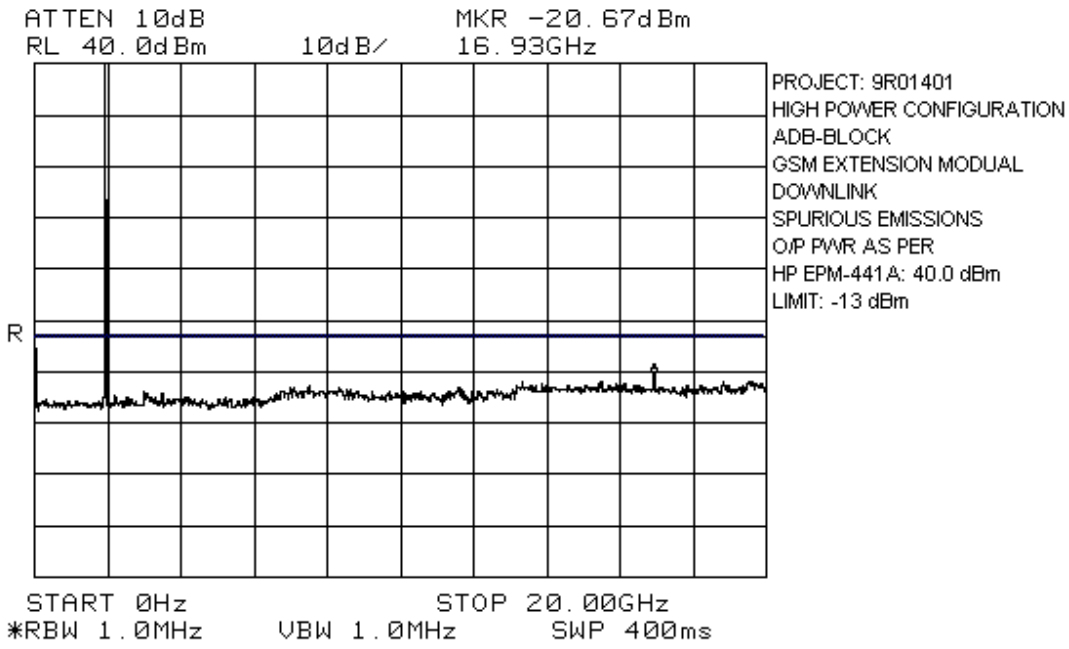

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -22.33dBm
7.60GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
GSM EXTENSION MODUAL
UPLINK
SPURIOUS EMISSIONS
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

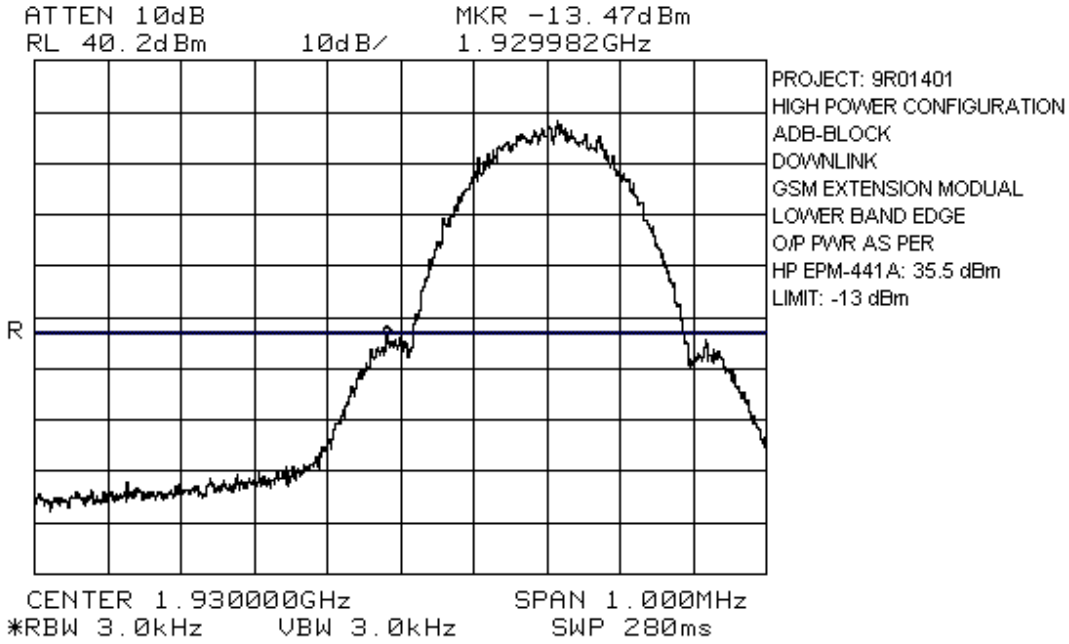

ATTEN 10dB
RL 39.5dBm
10dB/
MKR -13.50dBm
1.849983GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
UPLINK
GSM EXTENSION MODUAL
LOWER BAND EDGE
CH. 004
O/P PWR AS PER
HP EPM-441A: 34.7 dBm
LIMIT: -13 dBm
CENTER 1.850000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

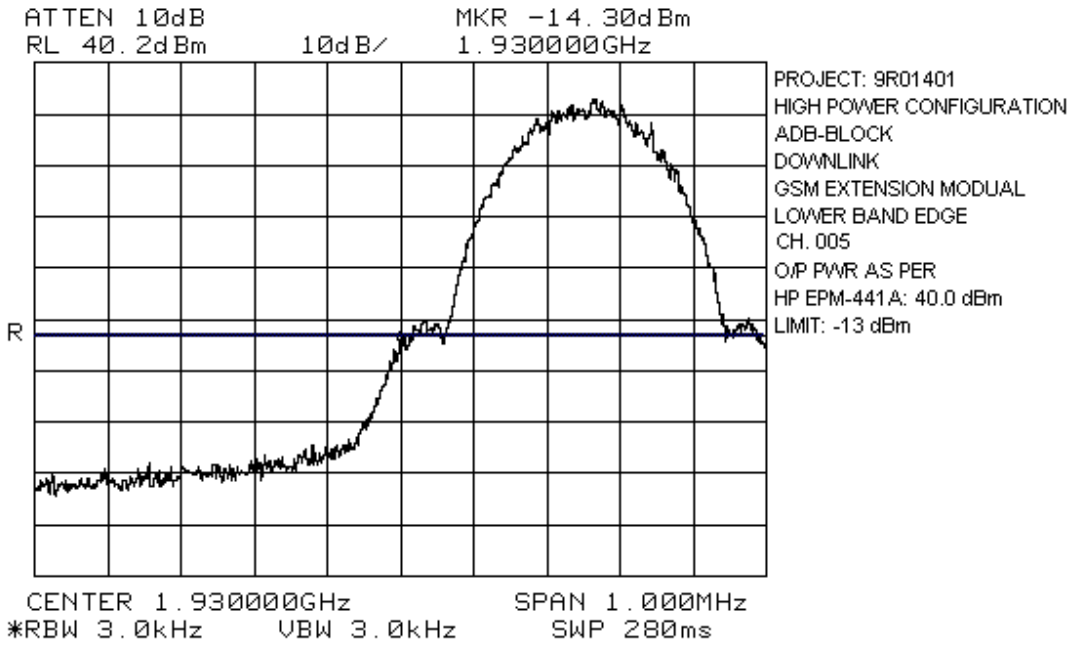

ATTEN 10dB
RL 39.5dBm
10dB/
MKR -14.17dBm
1.849992GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
UPLINK
GSM EXTENSION MODUAL
LOWER BAND EDGE
CH. 005
O/P PWR AS PER
HP EPM-441A:40.0 dBm
LIMIT: -13 dBm
CENTER 1.850000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

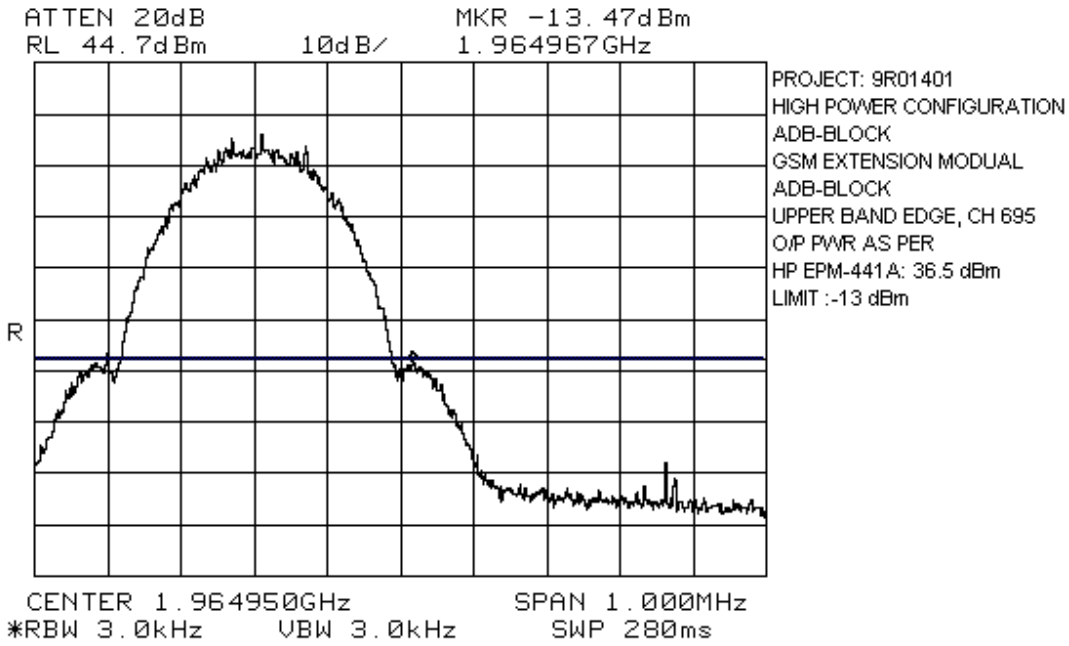

ATTEN 10dB
RL 39.5dBm
10dB/
MKR -13.33dBm
1.884967GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
UPLINK
GSM EXTENSION MODUAL
UPPER BAND EDGE
CH. 695
O/P PWR AS PER
HP EPM-441A: 38.2 dBm
LIMIT: -13 dBm
CENTER 1.884950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

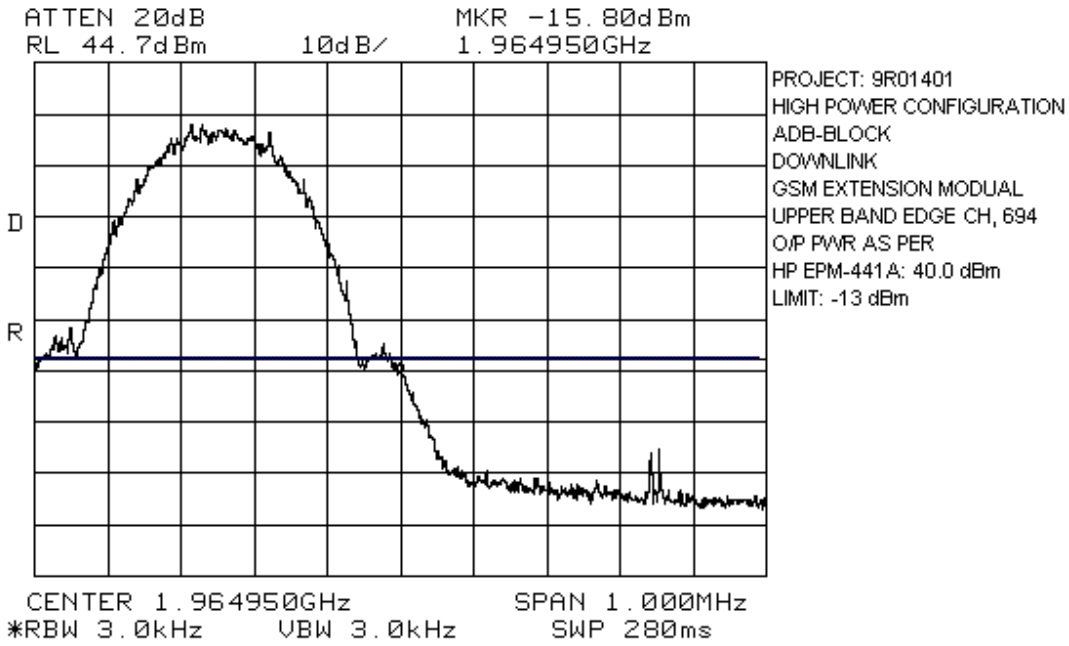

ATTEN 10dB
RL 39.5dBm
10dB/
MKR -17.17dBm
1.884950GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
UPLINK
ADB-BLOCK
GSM EXTENSION MODUAL
UPPER BAND EDGE
CH. 694
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.884950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

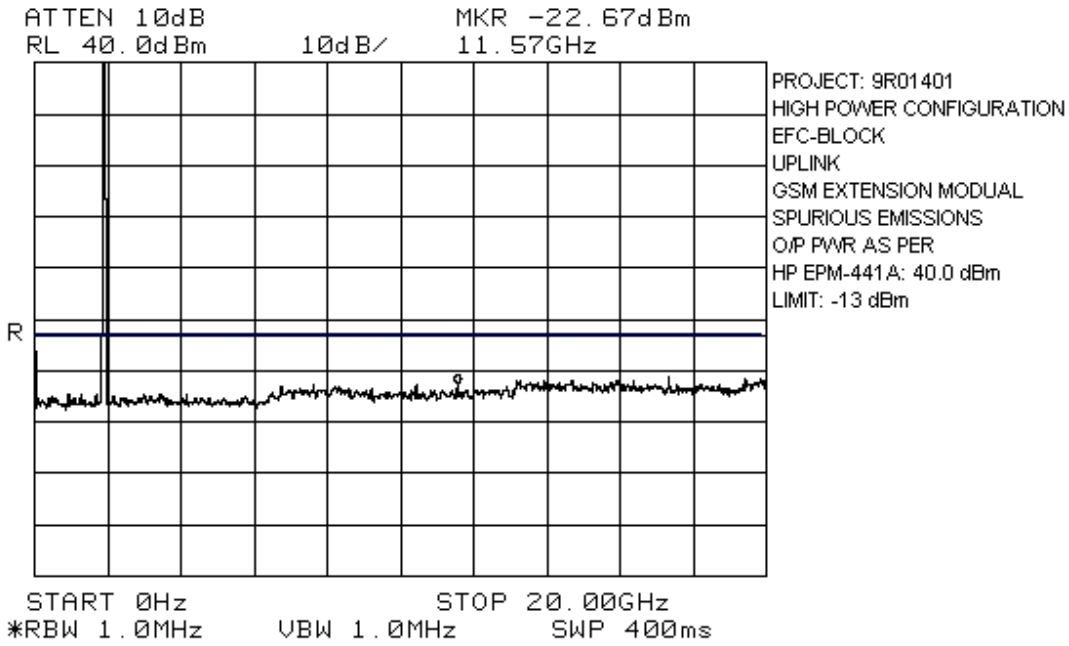

ATTEN 10dB
MKR -20.67dBm
RL 40.0dBm
10dB/
16.93GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
GSM EXTENSION MODUAL
DOWNLINK
SPURIOUS EMISSIONS
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

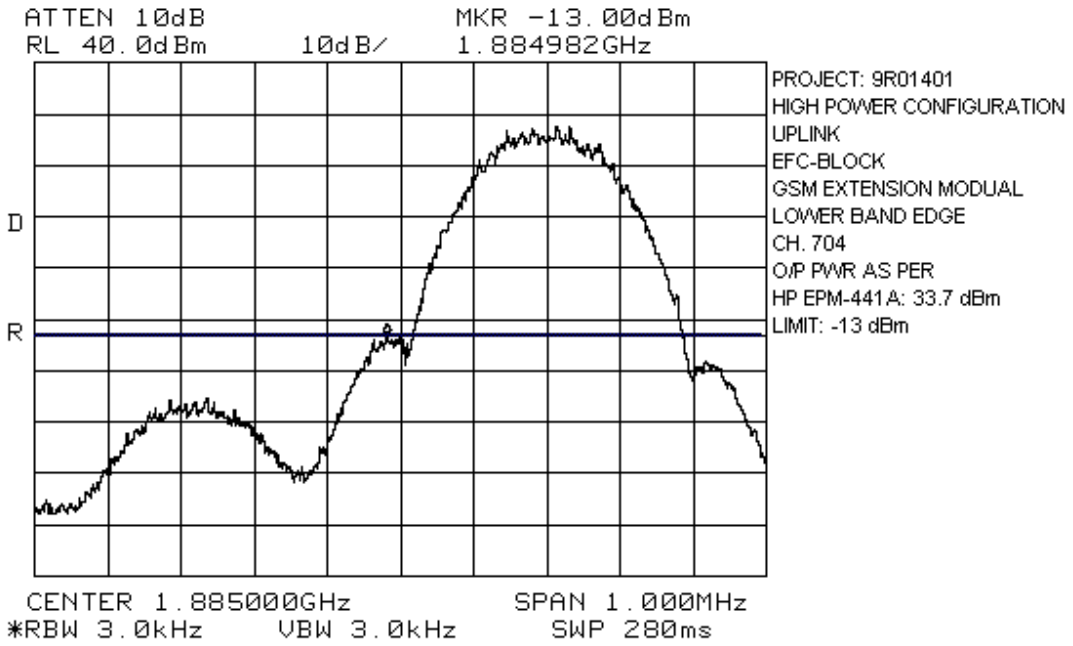

ATTEN 10dB
RL 40.2dBm
10dB/
MKR -13.47dBm
1.929982GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
GSM EXTENSION MODUAL
LOWER BAND EDGE
O/P PWR AS PER
HP EPM-441A: 35.5 dBm
LIMIT: -13 dBm
R
CENTER 1.930000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

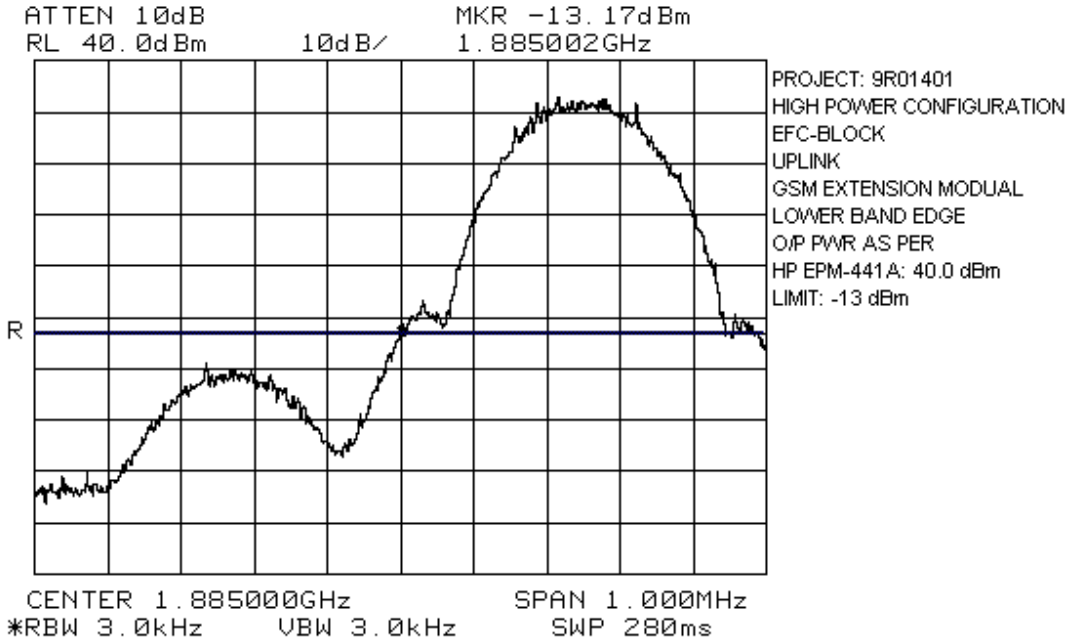

ATTEN 10dB
RL 40.2dBm
10dB/
MKR -14.30dBm
1.930000GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
GSM EXTENSION MODUAL
LOWER BAND EDGE
CH. 005
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.930000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

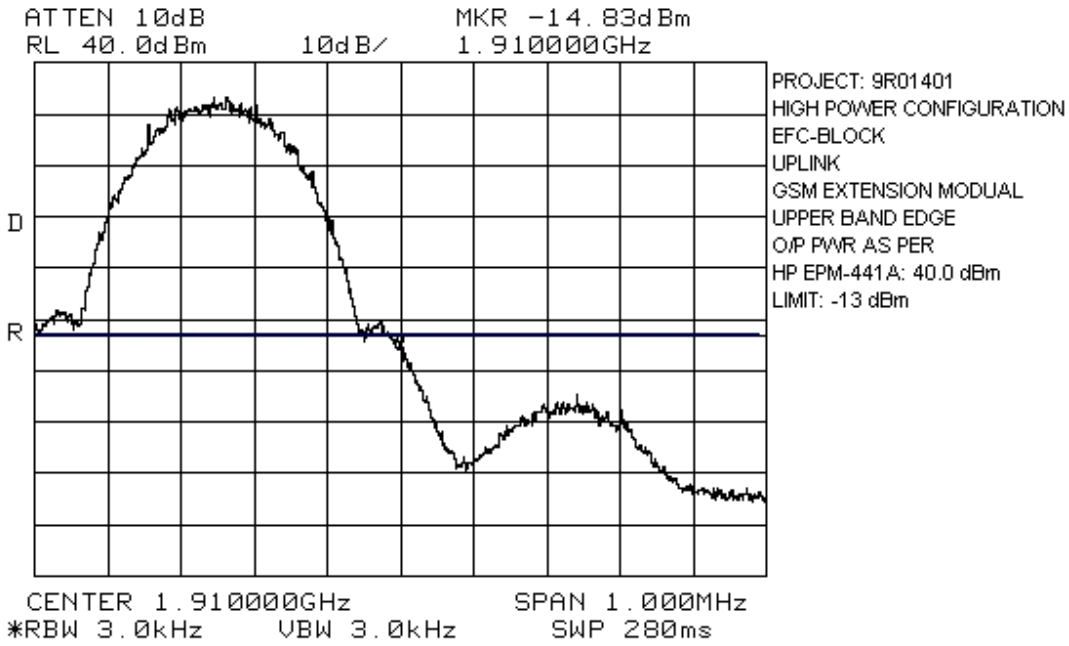

ATTEN 20dB
RL 44.7dBm
10dB/
MKR -13.47dBm
1.964967GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
GSM EXTENSION MODUAL
ADB-BLOCK
UPPER BAND EDGE, CH 695
O/P PWR AS PER
HP EPM-441A: 36.5 dBm
LIMIT :-13 dBm
CENTER 1.964950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

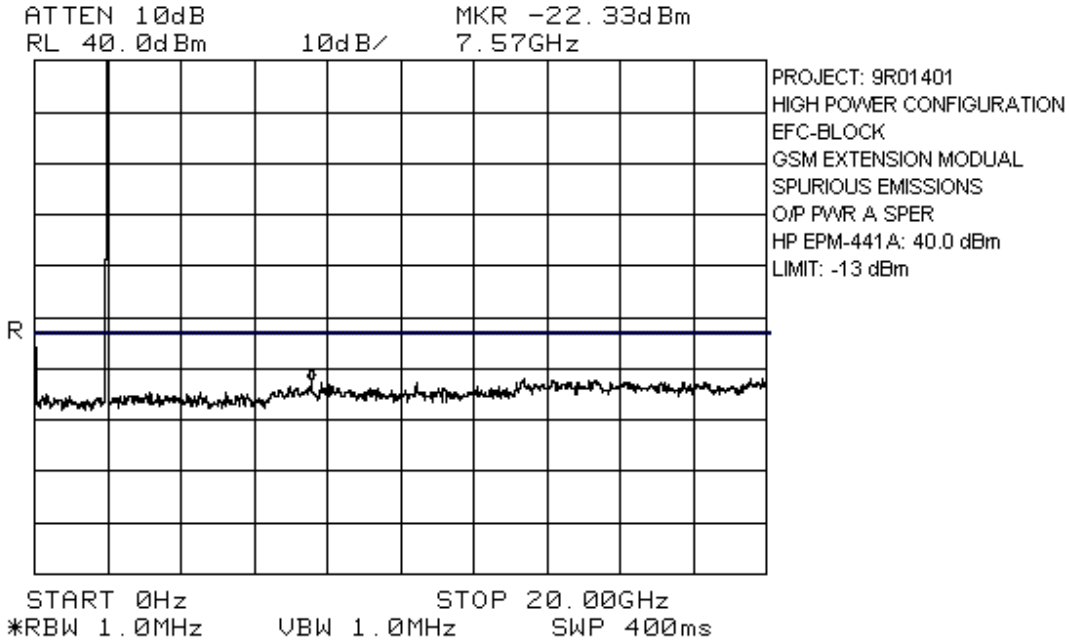

ATTEN 20dB
RL 44.7dBm
10dB/
MKR -15.80dBm
1.964950GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
GSM EXTENSION MODUAL
UPPER BAND EDGE CH, 694
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.964950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

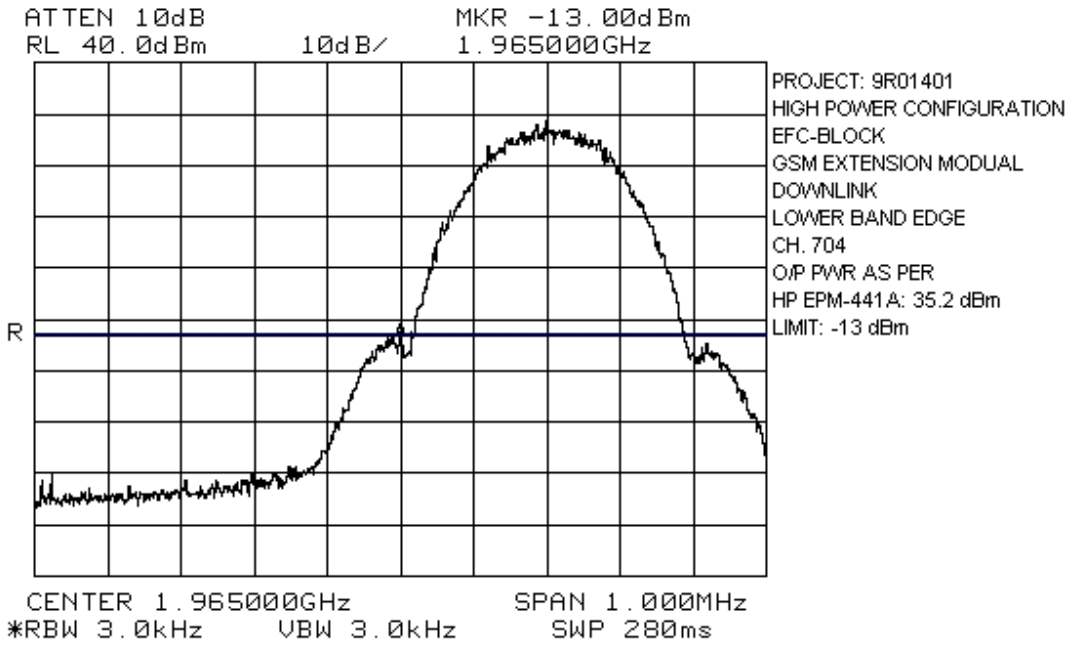

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -22.67dBm
11.57GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
UPLINK
GSM EXTENSION MODUAL
SPURIOUS EMISSIONS
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

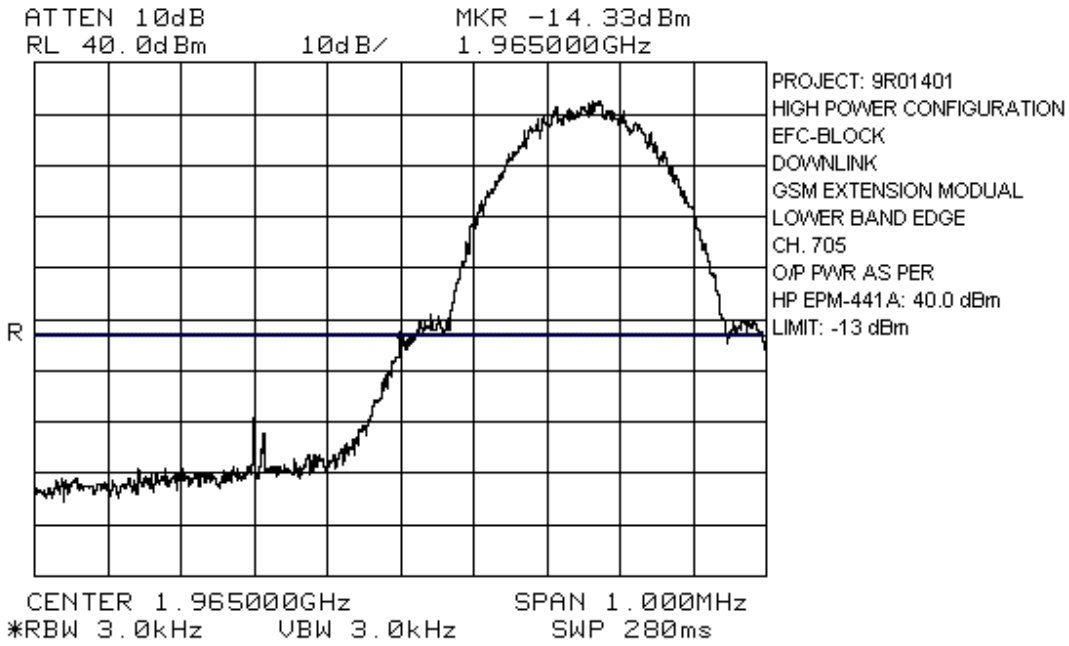

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -13.00dBm
1.884982GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
UPLINK
EFC-BLOCK
GSM EXTENSION MODUAL
LOWER BAND EDGE
CH. 704
O/P PWR AS PER
HP EPM-441A: 33.7 dBm
LIMIT: -13 dBm
CENTER 1.885000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

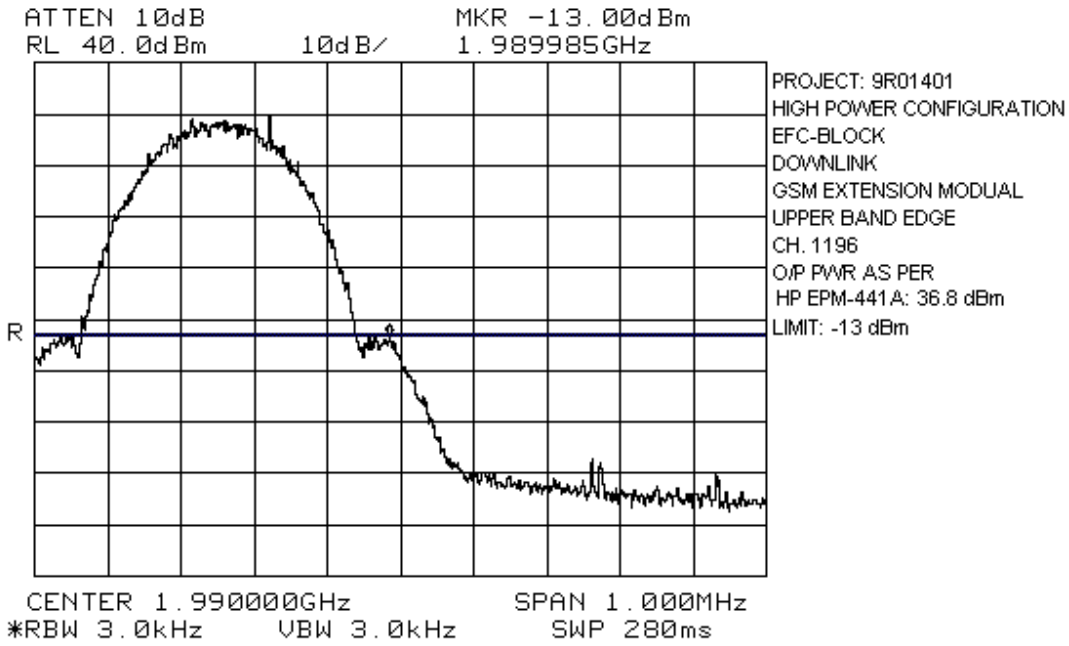

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -13.17dBm
1.885002GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
UPLINK
GSM EXTENSION MODUAL
LOWER BAND EDGE
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.885000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

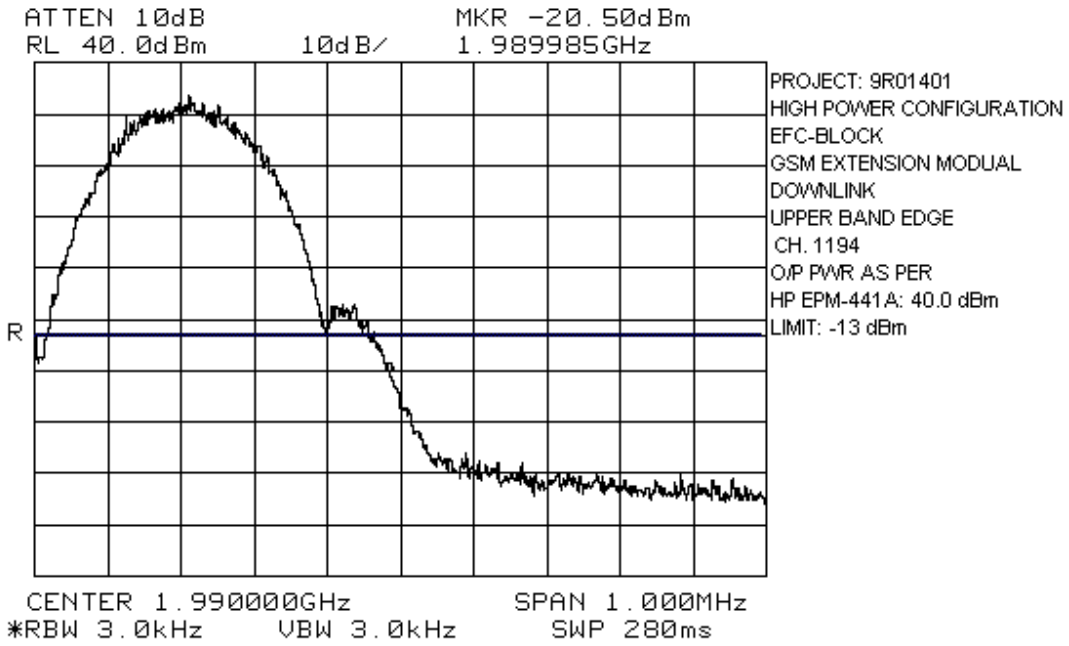

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -14.83dBm
1.910000GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
UPLINK
GSM EXTENSION MODUAL
UPPER BAND EDGE
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.910000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms


ATTEN 10dB
RL 40.0dBm
10dB/
MKR -22.33dBm
7.57GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
GSM EXTENSION MODUAL
SPURIOUS EMISSIONS
O/P PWR A SPER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

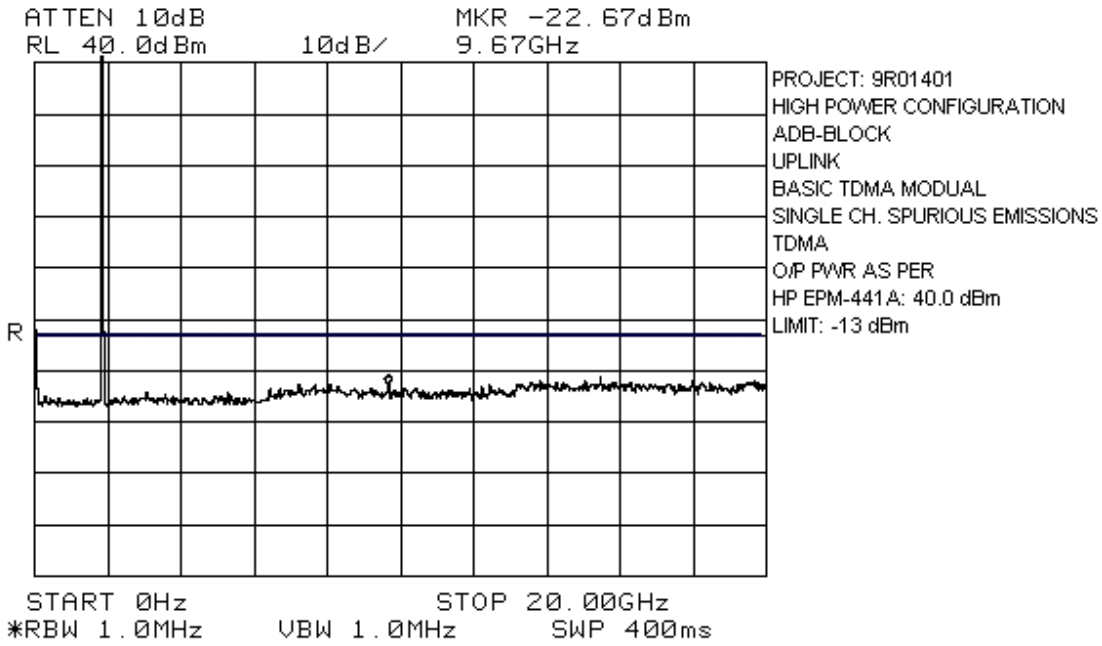

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -13.00dBm
1.965000GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
GSM EXTENSION MODUAL
DOWNLINK
LOWER BAND EDGE
CH. 704
O/P PWR AS PER
HP EPM-441A: 35.2 dBm
LIMIT: -13 dBm
R
CENTER 1.965000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

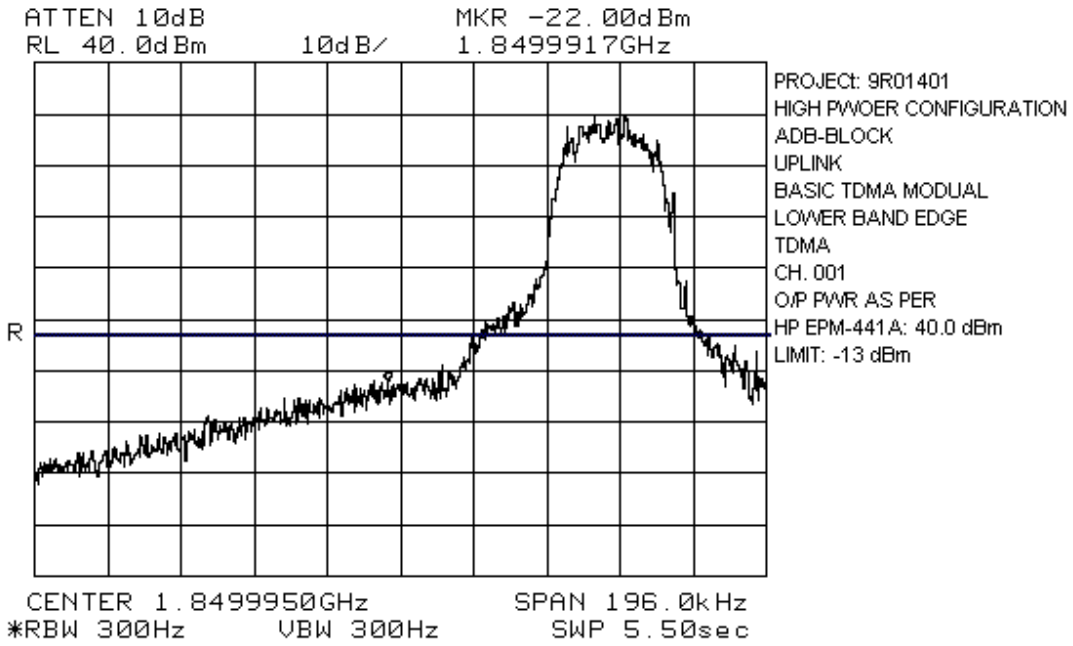

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -14.33dBm
1.965000GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
DOWNLINK
GSM EXTENSION MODUAL
LOWER BAND EDGE
CH. 705
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
R
CENTER 1.965000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

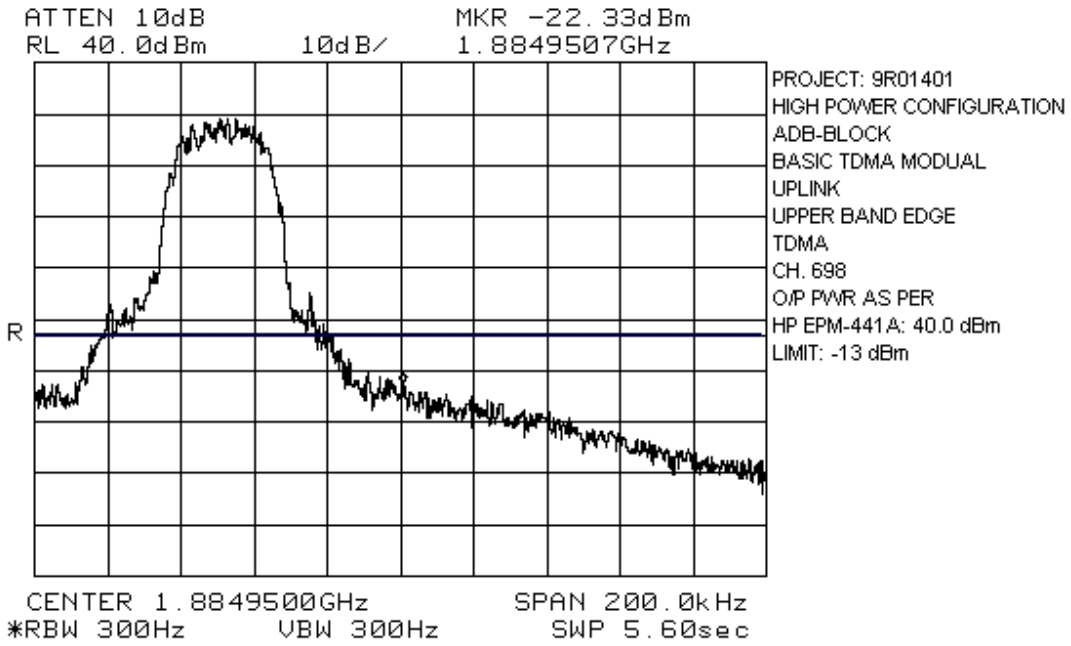

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -13.00dBm
1.989985GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
DOWNLINK
GSM EXTENSION MODUAL
UPPER BAND EDGE
CH. 1196
O/P PWR AS PER
HP EPM-441A: 36.8 dBm
LIMIT: -13 dBm
R
CENTER 1.990000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

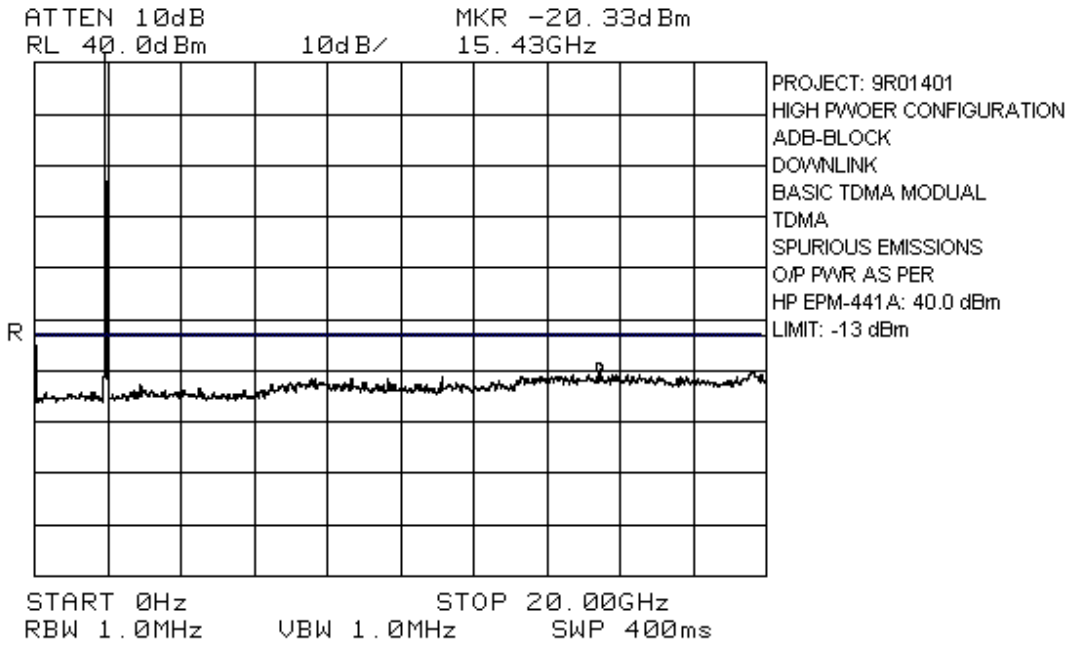

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -20.50dBm
1.989985GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
GSM EXTENSION MODUAL
DOWNLINK
UPPER BAND EDGE
CH. 1194
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.990000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

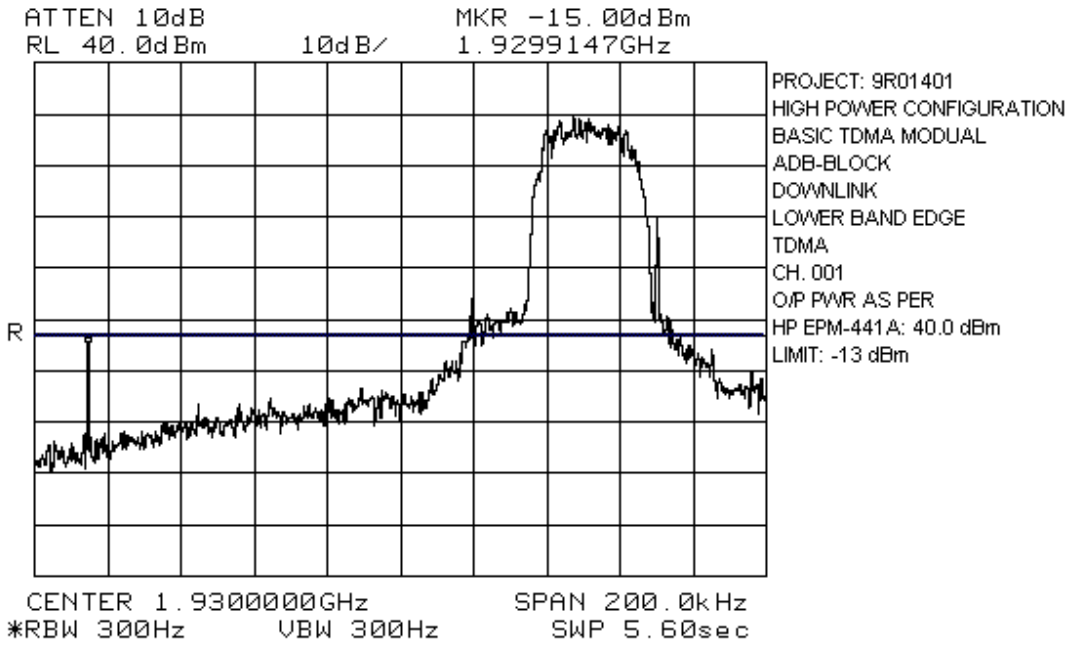
Basic TDMA Module

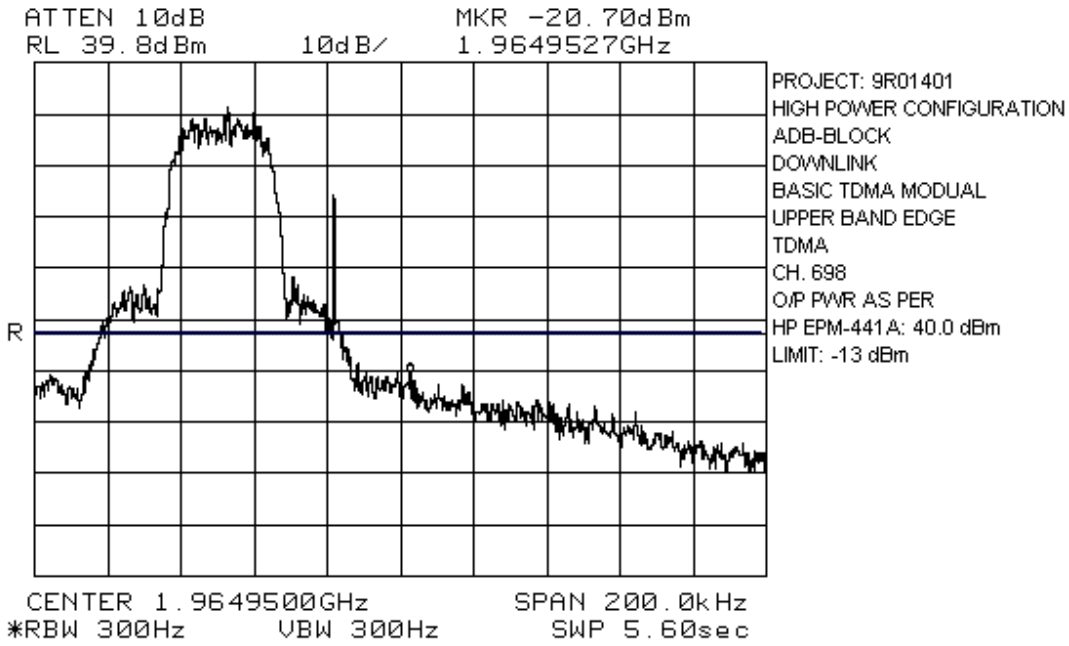

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -22.67dBm
9.67GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
UPLINK
BASIC TDMA MODUAL
SINGLE CH. SPURIOUS EMISSIONS
TDMA
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

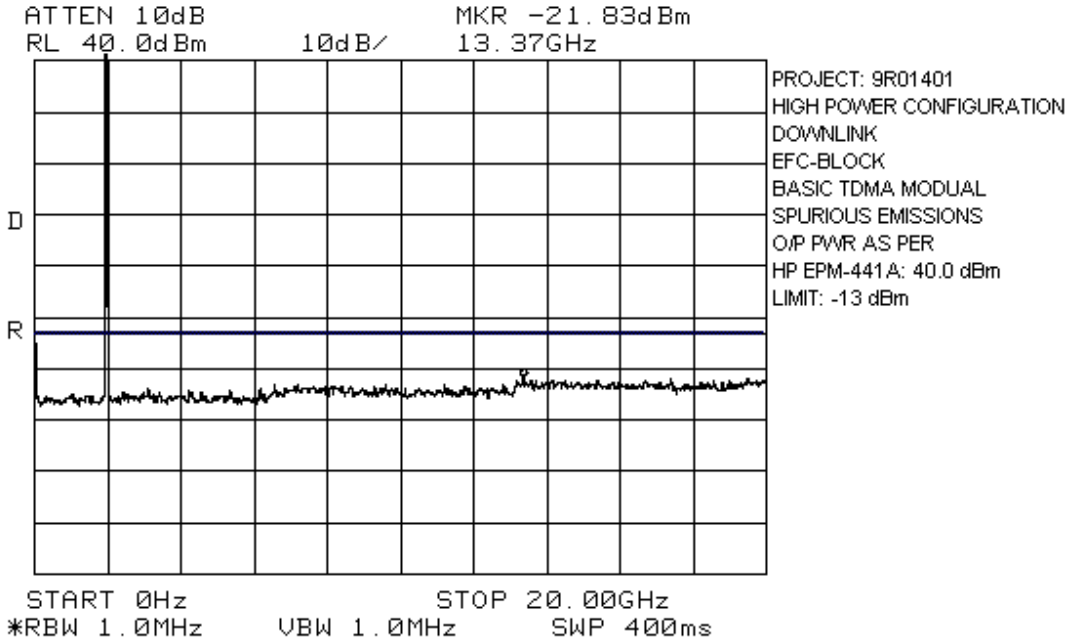

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -22.00dBm
1.8499917GHz
R
PROJECt: 9R01401
HIGH PWOER CONFIGURATION
ADB-BLOCK
UPLINK
BASIC TDMA MODUAL
LOWER BAND EDGE
TDMA
CH. 001
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.8499950GHz
SPAN 196.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.50sec

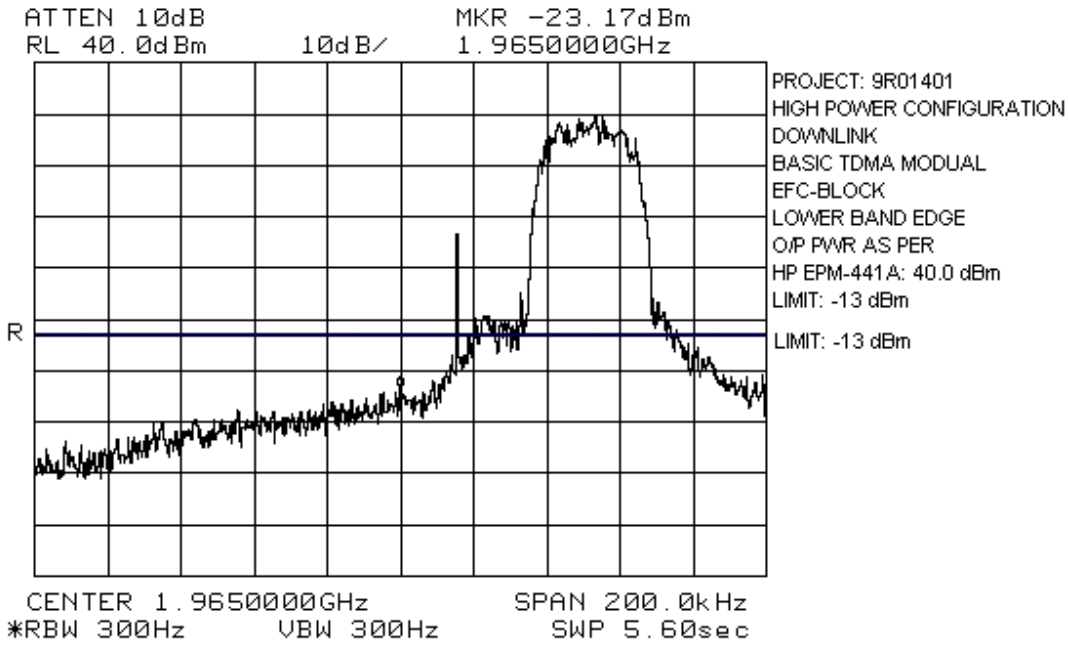

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -22.33dBm
1.8849507GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
BASIC TDMA MODUAL
UPLINK
UPPER BAND EDGE
TDMA
CH. 698
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.8849500GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

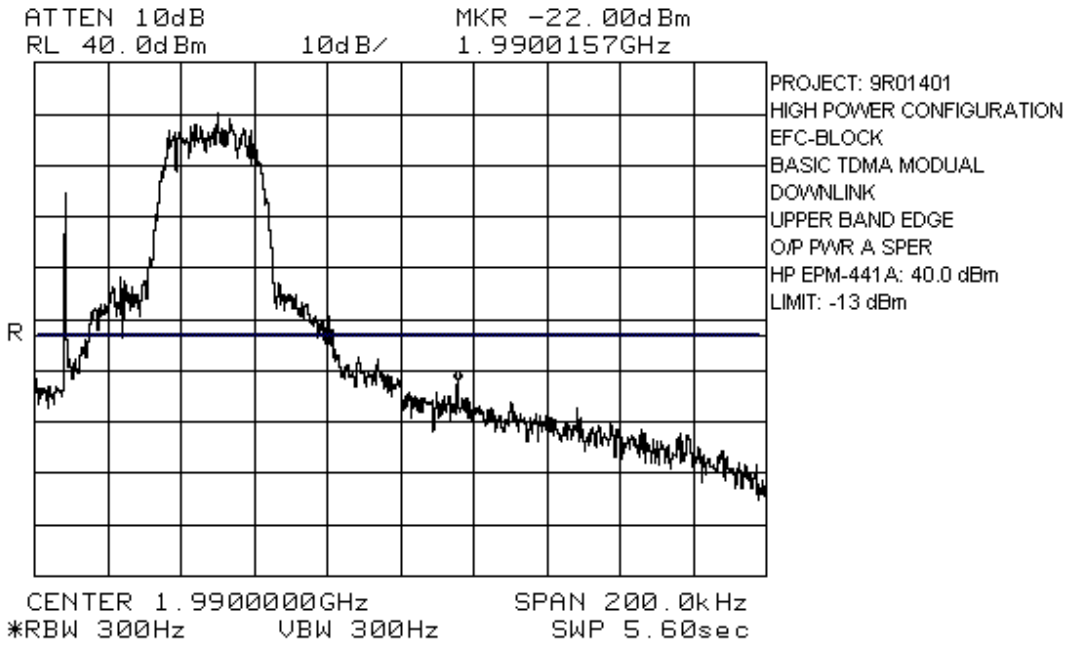

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -20.33dBm
15.43GHz
PROJECT: 9R01401
HIGH PWOER CONFIGURATION
ADB-BLOCK
DOWNLINK
BASIC TDMA MODUAL
TDMA
SPURIOUS EMISSIONS
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

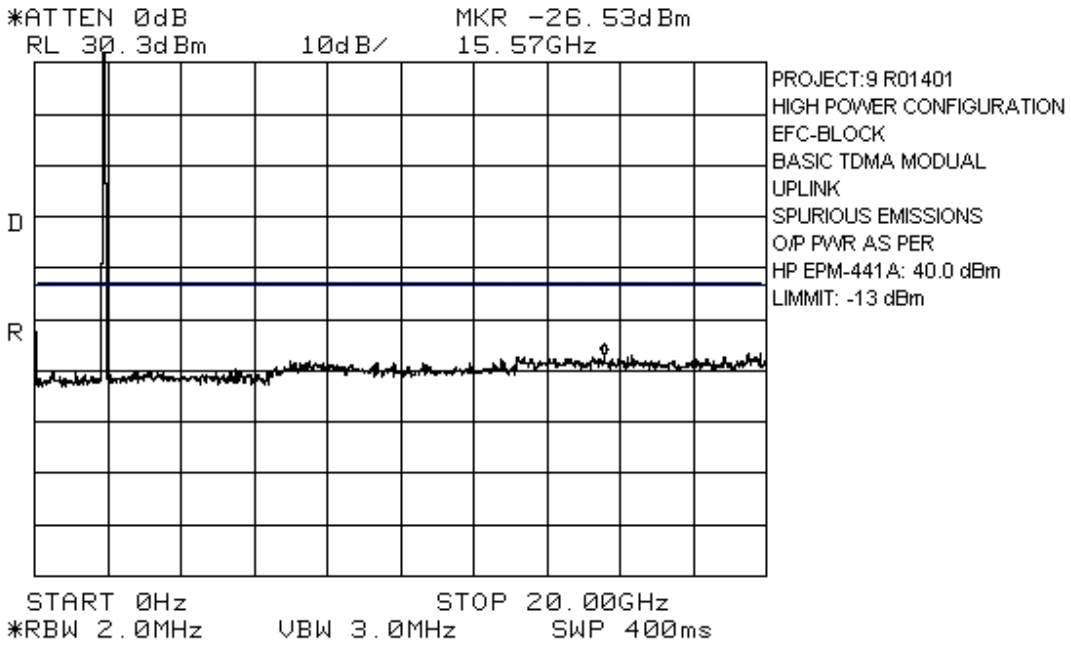

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -15.00dBm
1.9299147GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
BASIC TDMA MODUAL
ADB-BLOCK
DOWNLINK
LOWER BAND EDGE
TDMA
CH. 001
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.9300000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

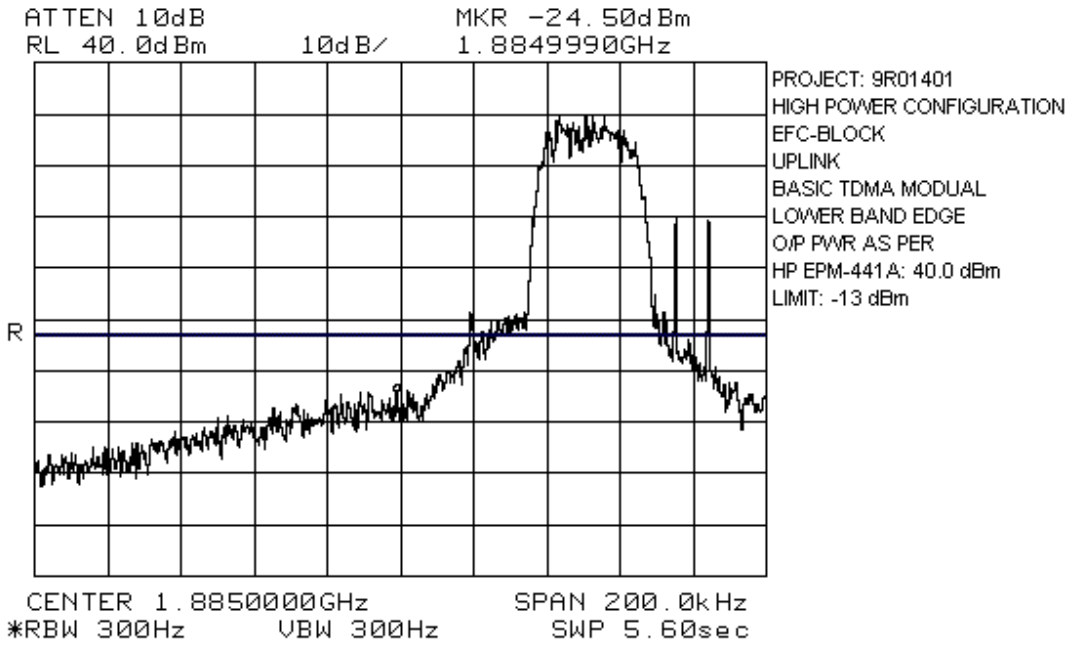

ATTEN 10dB
RL 39.8dBm
10dB/
MKR -20.70dBm
1.9649527GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
ADB-BLOCK
DOWNLINK
BASIC TDMA MODUAL
UPPER BAND EDGE
TDMA
CH. 698
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.9649500GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

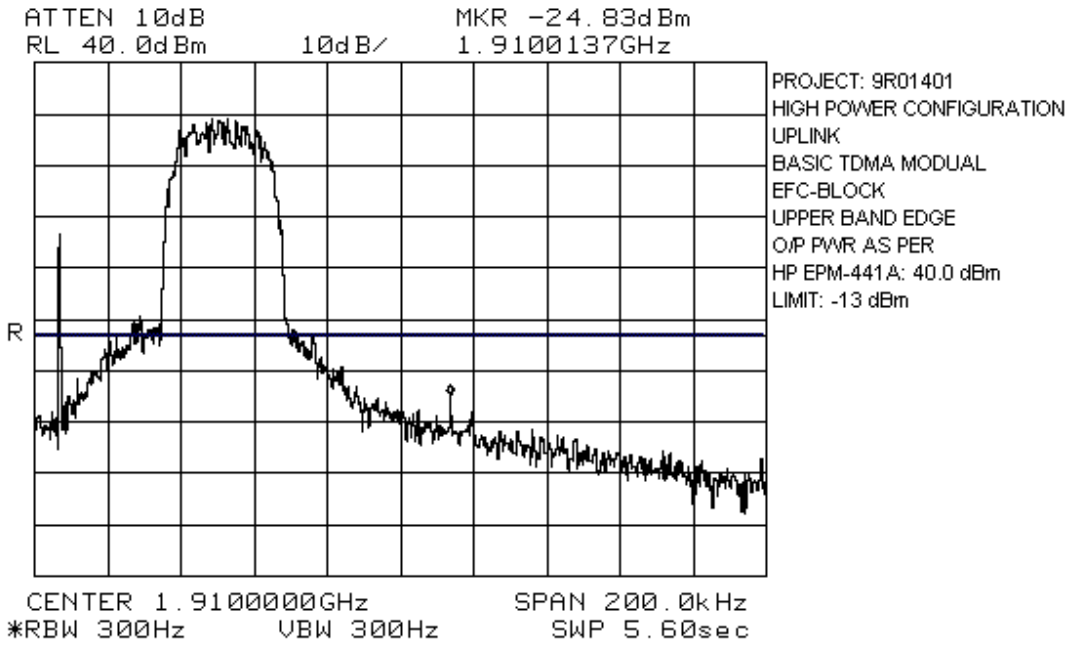

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -21.83dBm
13.37GHz
D
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
EFC-BLOCK
BASIC TDMA MODUAL
SPURIOUS EMISSIONS
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms


ATTEN 10dB
RL 40.0dBm
10dB/
MKR -23.17dBm
1.9650000GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
DOWNLINK
BASIC TDMA MODUAL
EFC-BLOCK
LOWER BAND EDGE
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
LIMIT: -13 dBm
CENTER 1.9650000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec


ATTEN 10dB
RL 40.0dBm
10dB/
MKR -22.00dBm
1.9900157GHz
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
BASIC TDMA MODUAL
DOWNLINK
UPPER BAND EDGE
O/P PWR A SPER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
R
CENTER 1.9900000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec


*ATTEN 0dB
MKR -26.53dBm
RL 30.3dBm
10dB/
15.57GHz
D
R
PROJECT:9 R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
BASIC TDMA MODUAL
UPLINK
SPURIOUS EMISSIONS
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 2.0MHz
VBW 3.0MHz
SWP 400ms


ATTEN 10dB
RL 40.0dBm
10dB/
MKR -24.50dBm
1.8849990GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
EFC-BLOCK
UPLINK
BASIC TDMA MODUAL
LOWER BAND EDGE
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.8850000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec


ATTEN 10dB
RL 40.0dBm
10dB/
MKR -24.83dBm
1.9100137GHz
R
PROJECT: 9R01401
HIGH POWER CONFIGURATION
UPLINK
BASIC TDMA MODUAL
EFC-BLOCK
UPPER BAND EDGE
O/P PWR AS PER
HP EPM-441A: 40.0 dBm
LIMIT: -13 dBm
CENTER 1.9100000GHz
SPAN 200.0kHz
*RBW 300Hz
VBW 300Hz
SWP 5.60sec

Section 6. Field Strength of Spurious

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.917(e)
TESTED BY: Kevin Carr	DATE: August 19, 1999

Test Results: Complies.
The maximum field strength is 61.3dBµV/m @ 7790 MHz @ 3m.

Test Data:

Test Data - Radiated Emissions – Uplink

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP		RBW: 1 MHz, 3 MHz		Detector: VBW, Peak			
Freq. (MHz)	**Ant. ***	**Pol. (V/H)**	**Ant. HGT. (m)**	**Table (deg.)**	**RCVD Signal (dBµV/m)**	**Ant. Factor (dB)****	**Amp. Gain (dB)*****	**Dist. Corr. (dB)**	**Field Strength (dBµV/m)**	**Limit (dBµV/m)**	**Margin (dB)**
3735.1	Hrn2	V			48.0	35.7	-42.4		41.3	82.3	41.0
3735.1	Hrn2	H			48.8	35.7	-42.4		42.1	82.3	40.2
5602.6	Hrn2	V			50.0	40.5	-43.1		47.4	82.3	34.9
5602.6	Hrn2	H			47.8	40.5	-43.1		45.2	82.3	37.1
7469.3	Hrn2	V			47.3	44.8	-42.0		50.1	82.3	32.2
7470.1	Hrn2	H			46.1	44.8	-42.0		48.9	82.3	33.4
9337.5	Hrn2	V			45.3	50.8	-43.4		42.7	82.3	29.6
9337.5	Hrn2	H			45.6	50.8	-43.4		53.0	82.3	29.3
11205.1	Hrn2	V			46.0	53.8	-43.5		56.3	82.3	26.0
11205.1	Hrn2	H			45.8	53.8	-43.5		56.1	82.3	26.2

Notes:
The spectrum was search up to the 10th harmonic of the fundamental frequency.
B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole
* Includes cable loss when amplifier is not used.
** Includes cable loss.
( ) Denotes failing emission level.
No further emissions detected, noise floor > 35 dB below the limit.

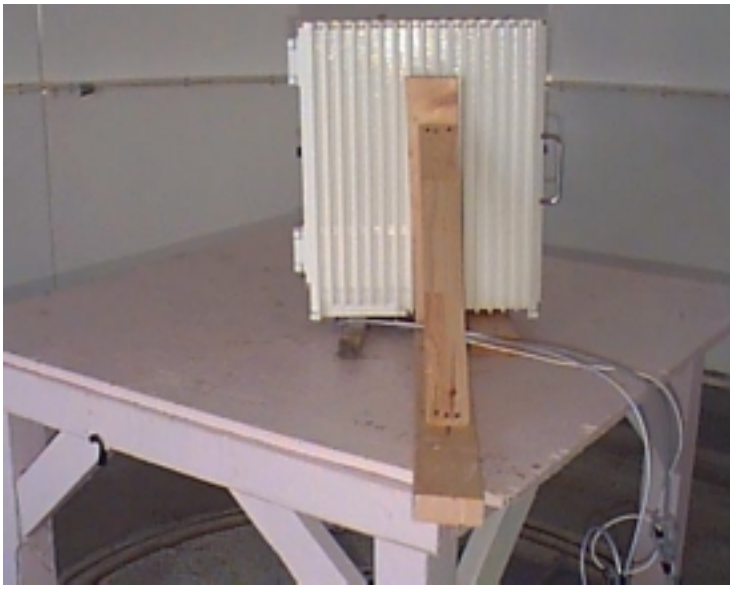
Test Data - Radiated Emissions – Downlink

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP		RBW: 1 MHz, 3 MHz		Detector: VBW, Peak			
Freq. (MHz)	**Ant. ***	**Pol. (V/H)**	**Ant. HGT. (m)**	**Table (deg.)**	**RCVD Signal (dBµV/m)**	**Ant. Factor (dB)****	**Amp. Gain (dB)*****	**Dist. Corr. (dB)**	**Field Strength (dBµV/m)**	**Limit (dBµV/m)**	**Margin (dB)**
3894.8	Hrn2	V			55.3	36.0	-42.5		48.8	82.3	33.5
6895.1	Hrn2	H			53.5	36.0	-42.5		47.0	82.3	35.3
5842.7	Hrn2	V			57.3	41.7	-41.7		57.3	82.3	25.0
5842.2	Hrn2	H			55.3	41.7	-41.7		55.3	82.3	27.0
7790.0	Hrn2	V			56.8	45.5	-41.0		61.3	82.3	21.0
7790.2	Hrn2	H			55.5	45.5	-41.0		60.0	82.3	22.3
9738.7	Hrn2	V			41.3	51.5	-44.4		48.4	82.3	33.9
9738.6	Hrn2	H			40.1	51.5	-44.4		47.2	82.3	35.1
11686.1	Hrn2	V			41.6	54.2	-43.7		52.1	82.3	30.2
11684.5	Hrn2	H			39.8	54.2	-43.7		50.3	82.3	32.0

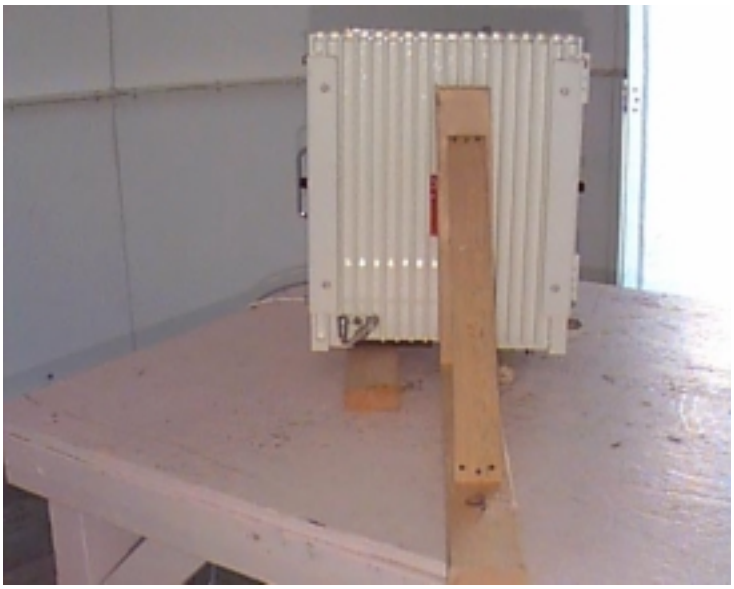
Notes:
The spectrum was search up to the 10th harmonic of the fundamental frequency.
B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole
* Includes cable loss when amplifier is not used.
** Includes cable loss.
( ) Denotes failing emission level.
No further emissions detected, noise floor > 35 dB below the limit.

Photographs of Test Setup

Front View



Rear View



Section 7. Frequency Stability

NAME OF TEST: Frequency Stability	PARA. NO.: 24.235
TESTED BY:	DATE:

Test Results: Complies/Does Not Comply.

Measurement Data: Standard Test Frequency: _____ MHz
Standard Test Voltage: _____ Vdc

NOT APPLICABLE

Section 8. Test Equipment List

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.	
2 Year	Spectrum Analyzer	Hewlett Packard	8563E	862205	Jan. 22/98	Jan. 22/00	
1 Year	Attenuator	Narda	768-20	9507	July 24/98	Sept. 24/99	
1 Year	Attenuator	Narda	765-20	9510	July 24/98	Sept. 24/99	
1 Year	Attenuator	Narda	768-10	9704	July 24/98	Sept. 24/99	
1 Year	RF Millivoltmeter	Rohde & Schwarz	URV5	FA000420	July 23/98	Sept. 24/99	
1 Year	Insertion Unit	Rohde & Schwarz	URV5-Z4	FA000905	July 23/98	Sept. 24/99	
2 Year	Horn Antenna	EMCO #2	3115	4336	Oct. 30/97	Oct. 30/99	
1 Year	50 ohm Combiner Pad	Mini Circuits	ZA3PD-2	9746	July 23/98	Sept. 24/99	
1 Year	Low Noise Amplifier	Avantek	AWT-8035	1005	Aug. 4/98	Sept. 24/99	
1 Year	Low Noise Amplifier	DBS Microwave	DWT-13035	9623	Aug. 4/98	Sept. 24/99	
3 Year	RF Generator	Rohde & Schwarz	SME3	DE14439	June 29/96	Dec. 29/99	
1 Year	RF Generator	Rohde & Schwarz	SIMIQ03E	DE24154	Sept. 24/98	Sept. 24/99	
1 Year	High Power Coupler 2-18 GHz	Narda	27000-30	0221	Nov. 25/98	Nov. 25/99	
1 Year	Power Head (Rental)	Hewlett Packard	8481A	909238	Feb. 5/99	Feb. 5/00	
1 Year	Power Meter	Hewlett Packard	EPM-441A	837896	Oct. 1/98	Oct. 1/99	

NA: Not Applicable
NCR: No Cal Required
COU: CAL On Use

ANNEX A

TEST METHODOLOGIES

NAME OF TEST: RF Power Output	**PARA. NO.: 2.985**

Minimum Standard: Para. No.24.232. Base stations are limited to 1640 watts peak E.I.R.P. with an antenna height up to 300 meters HAAT. In no case may the peak output power of a base station transmitter exceed 100 watts.

Method Of Measurement:

Detachable Antenna:
The peak power at antenna terminals is measured using an in-line peak power meter. Power output is measured with the maximum rated input level.

Integral Antenna:
If the antenna is not detachable from the circuit then the Peak Power Output is derived from the peak radiated field strength of the fundamental emission by using the plane wave relation $GP/4\pi R^2 = E^2/120\pi$ and proceeding as follows:

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

where,

P = the equivalent isotropic radiated power in watts
E = the maximum measured field strength in V/m
R = the measurement range (3 meters)
G = the numeric gain of the transmit antenna in relation to an isotropic radiator

NAME OF TEST: Occupied Bandwidth	**PARA. NO.: 2.989**

Minimum Standard: Para. No. 24.238(b). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB.

Method Of Measurement:

CDMA

Spectrum analyzer settings:
RBW: 30 kHz
VBW: ≥ RBW
Span: 5 MHz
Sweep: Auto
Mask: Set markers to -26 dB from peak of CW.

GSM

RBW: 3 kHz
VBW: ≥ RBW
Span: 2 MHz
Sweep: Auto
Mask: Set markers to -26 dB from peak of CW.

NADC

RBW: 300 Hz
VBW: ≥ RBW
Span: 1 MHz
Sweep: Auto
Mask: Set markers to -26 dB from peak of CW.

NAME OF TEST: Spurious Emission at Antenna Terminals PARA. NO.: 2.991

Minimum Standard: Para. No.24.238(a). On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power by at least 43 + 10 log (P) dB.

Method Of Measurement:

Spectrum analyzer settings:

CDMA

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 30 kHz (< 1MHz from Band Edge)
VBW: ≥ RBW
Sweep: Auto
Video Avg: 6 Sweeps

GSM

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 3 kHz (< 1 MHz from Band Edge)
VBW: ≥ RBW
Sweep: Auto
Video Avg: Disabled

NADC

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 3 kHz (< 1 MHz from Band Edge) 30 Hz
VBW: ≥ RBW
Sweep: Auto
Video Avg: Disabled

To demonstrate compliance at band edges the frequency of the input signal is set to the lowest and highest assigned channel and the center frequency of the spectrum analyzer is set to the upper and lower edges of the appropriate frequency block.

NAME OF TEST: Field Strength of Spurious Radiation PARA. NO.: 2.993

Minimum Standard: Para. No.24.238(a). On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power by at least 43 + 10 log (P) dB.

Calculation Of Field Strength Limit

An example of attenuation requirement of 43 + 10 Log P is equivalent to -13 dBm (5×10^{-5} Watts) at the antenna terminal. We determine the field strength limit by using the plane wave relation.

$GP/4\pi R^2 = E^2/120\pi$

For emissions ≤ 1 GHz:

G = 1.64 (Dipole Gain)
P = 10^{-5} Watts (Maximum spurious output power)
R = 3m (Measurement Distance)

$$E = \frac{\sqrt{30GP}}{R}$$

$$\mathrm{E} = \frac{\sqrt{30 \times 1.64 \times 5 \times 10^{-5}}}{3} = 0.016533 \text{ V / m} = 84.4 \text{ dB}\mu\text{V / m}$$

For emissions > 1 GHz:

G = 1 (Isotropic Gain)
P = 1×10^{-5} Watts (Maximum spurious output power)
R = 3m (Measurement Distance)

$$E = 84.4 - 20Log\sqrt{1.64} = 82.3dB\mu V \ / \ m@3m$$

NAME OF TEST: Frequency Stability	**PARA. NO.: 2.995**

Minimum Standard: Para. No. 24.235. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Method Of Measurement:

Frequency Stability With Voltage Variation

The E.U.T. is placed in an environmental chamber and allowed to stabilize at +20 degrees Celsius for at least 15 minutes. The frequency counter and signal generator are phase locked with the same 10 MHz reference frequency by connecting the 10 MHz ref. out of the counter to the 10 MHz ref, in of the signal generator. With the voltage input to the E.U.T. set to 85% S.T.V., the frequency is measured in 30 second intervals for a period of 5 minutes. This procedure is repeated at 100% S.T.V. and 115% S.T.V.

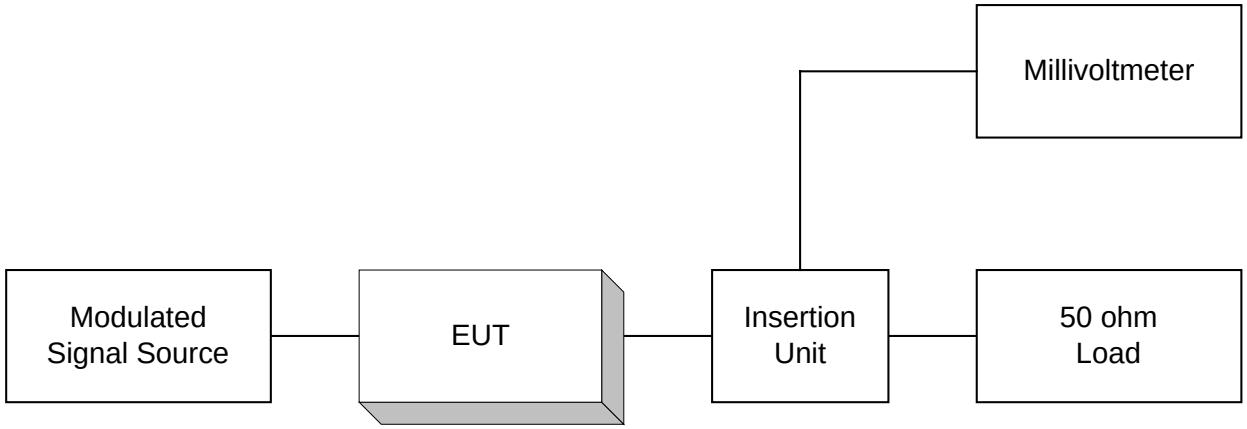
Frequency Stability With Temperature Variation

The input voltage to the E.U.T. is set to S.T.V. and the temperature of the environmental chamber is varied in 10 degree steps from -30 degrees C to +50 degrees C. The E.U.T. is allowed to stabilize at each temperature and the frequency is measured in 30 second intervals for a period of 5 minutes.

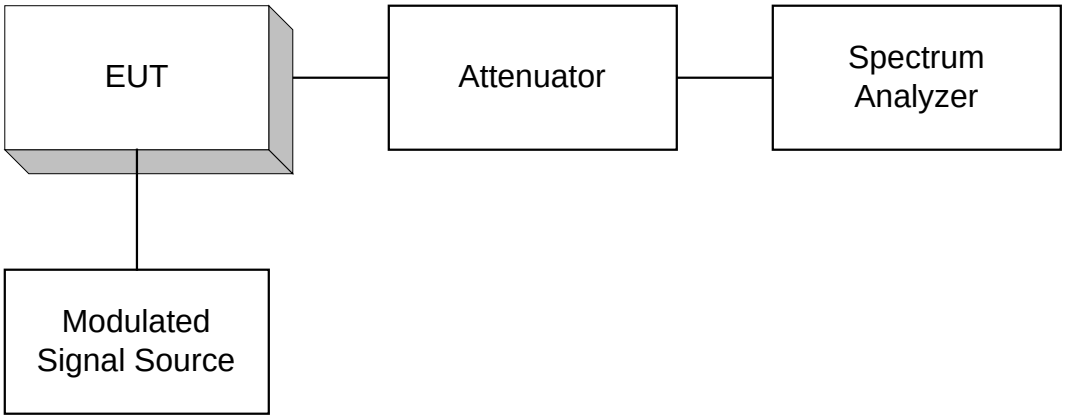
ANNEX B

TEST DIAGRAMS

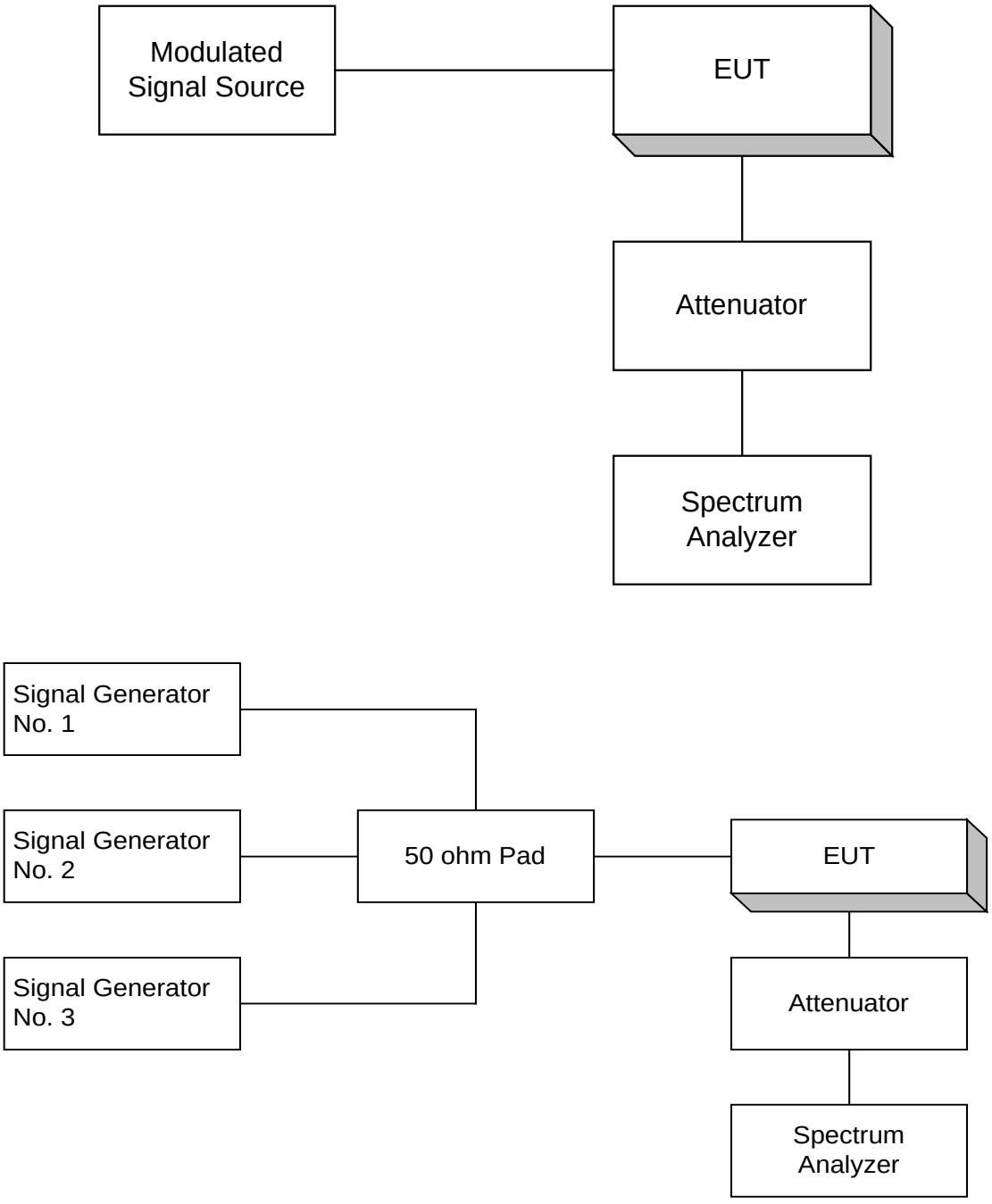
Para. No. 2.985 - R.F. Power Output



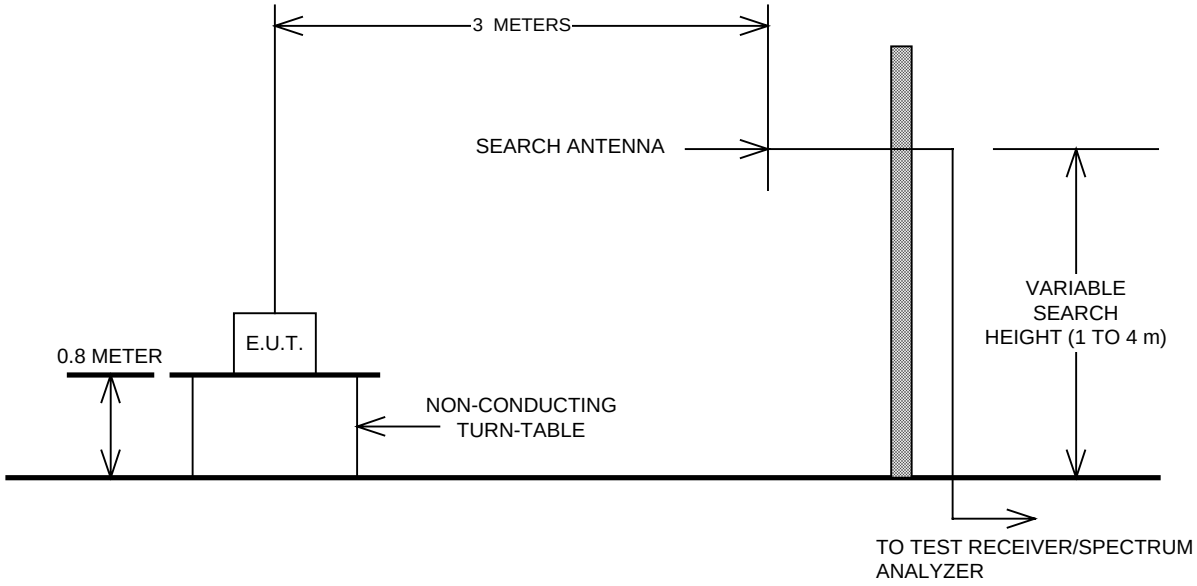
Para. No. 2.989 - Occupied Bandwidth



Para. No. 2.991 Spurious Emissions at Antenna Terminals



Para. No. 2.993 - Field Strength of Spurious Radiation



Para. No. 2.995 - Frequency Stability