

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART C & SUBPART L REQUIREMENT

OF

Product Name: Tablet PC
Brand Name: hp
Model No.: HSTNN-I72C
Model Difference: N/A
FCC ID: B94HNI72CAM
Report No.: ER/2015/90024
Issue Date: Nov. 09, 2015
FCC Rule Part: 2 , 22H & 24E & 27C & L
Prepared for: Hewlett-Packard Company
1501 Page Mill Road, M/S1419, Palo Alto, CA
94304, United States
Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Hewlett-Packard Company
 1501 Page Mill Road, M/S1419, Palo Alto, CA94304, United States

Product Name: Tablet PC

Brand Name: hp

Model No.: HSTNN-I72C

Model Difference: N/A

FCC ID: B94HNI72CAM

File Number: ER/2015/90024

Date of test: Oct. 12, 2015 ~ Nov. 09, 2015

Date of EUT Received: Oct. 12, 2015

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By: Nick Lin **Date:** Nov. 09, 2015

Nick Lin / Sr. Engineer

Prepared By: Tiffany Kao **Date:** Nov. 09, 2015

Tiffany Kao / Clerk

Approved By: Jim Chang **Date:** Nov. 09, 2015

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2015/90024	Rev.00	Initial creation of document	Nov. 09, 2015

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Tablet PC	
Brand Name:	hp	
Model No.:	HSTNN-I72C	
Model Difference:	N/A	
Product SW/HW version:	N/A / N/A	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Data Cable:	Model No.: N/A, Supplier: N/A	
WWAN Module:	Model No.: T77W595, Supplier: HON HAI PRECISION IND. CO., LTD	
Power Supply:	7.7Vdc form Rechargeable Li-polymer Battery or 5Vdc from adapter	
	Battery:	Model No.: HSTNN-DB7F; Supplier: Dynapack
	Adapter:	1. Model No.: TPN-CA01; Supplier: Chicony 2. Model No.: TPN-CA02; Supplier: Chicony 3. Model No.: TPN-DA04; Supplier: Delta

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GPRS / WCDMA/ CDMA:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GPRS 850, Class 12	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850, Class 12	824.2 MHz– 848.8 MHz	27dBm
	GPRS 1900, Class 12	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	26dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz - 1752.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	CDMA/EVDO BC0	824.7 MHz– 848.31MHz	24 dBm
	CDMA/EVDO BC1	1851.25MHz-1908.75MHz	24 dBm

LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	LTE-Band 2 (Bandwidth 1.4MHz)	1850.7MHz– 1909.3MHz	23dBm
	LTE-Band 2 (Bandwidth 3MHz)	1851.5MHz – 1908.5MHz	23dBm
	LTE-Band 2 (Bandwidth 5MHz)	1852.5MHz – 1907.5MHz	23dBm
	LTE-Band 2 (Bandwidth 10MHz)	1855.0MHz – 1905.0MHz	23dBm
	LTE-Band 2 (Bandwidth 15MHz)	1857.5MHz – 1902.5MHz	23dBm
	LTE-Band 2 (Bandwidth 20MHz)	1860.0MHz – 1900.0MHz	23dBm
	LTE-Band 4 (Bandwidth 1.4MHz)	1710.7MHz– 1754.3MHz	23dBm
	LTE-Band 4 (Bandwidth 3MHz)	1711.5MHz – 1753.5MHz	23dBm
	LTE-Band 4 (Bandwidth 5MHz)	1712.5MHz – 1752.5MHz	23dBm
	LTE-Band 4 (Bandwidth 10MHz)	1715.0MHz – 1750.0MHz	23dBm
	LTE-Band 4 (Bandwidth 15MHz)	1717.5MHz – 1747.5MHz	23dBm
LTE-Band 4 (Bandwidth 20MHz)	1720.0MHz – 1745.0MHz	23dBm	

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Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	LTE-Band 5 (Bandwidth 1.4MHz)	824.7MHz – 848.3MHz	23dBm
	LTE-Band 5 (Bandwidth 3MHz)	825.5MHz – 848.3MHz	23dBm
	LTE-Band 5 (Bandwidth 5MHz)	826.5MHz – 846.5MHz	23dBm
	LTE-Band 5 (Bandwidth 10MHz)	829.0MHz – 844.0MHz	23dBm
	LTE-Band 7 (Bandwidth 5MHz)	2502.5MHz – 2567.5MHz	23dBm
	LTE-Band 7 (Bandwidth 10MHz)	2505.0MHz – 2565.0MHz	23dBm
	LTE-Band 7 (Bandwidth 15MHz)	2507.5MHz – 2562.5MHz	23dBm
	LTE-Band 7 (Bandwidth 20MHz)	2510.0MHz – 2560MHz	23dBm
	LTE-Band 12 (Bandwidth 1.4MHz)	699.7MHz – 715.3MHz	23dBm
	LTE-Band 12 (Bandwidth 3MHz)	700.5MHz – 714.5MHz	23dBm
	LTE-Band 12 (Bandwidth 5MHz)	701.5MHz – 713.5MHz	23dBm
	LTE-Band 12 (Bandwidth 10MHz)	704.0MHz – 711.0MHz	23dBm
	LTE-Band 13 (Bandwidth 5MHz)	779.5MHz – 784.5MHz	23 dBm
	LTE-Band 13 (Bandwidth 10MHz)	782.0MHz – 782.0MHz	23 dBm
	LTE-Band 17 (Bandwidth 5MHz)	706.5MHz – 713.5MHz	23dBm
	LTE-Band 17 (Bandwidth 10MHz)	709.0MHz – 711.0MHz	23dBm

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Type of Emission:	GPRS 850	246KGXW
	EDGE 850	251KG7W
	GPRS 1900	247KGXW
	EDGE 1900	251KG7W
	WCDMA Band II	4M17F9W
	HSDPA Band II	4M14F9W
	HSUPA Band II	4M17F9W
	WCDMA Band IV	4M16F9W
	HSDPA Band IV	4M18F9W
	HSUPA Band IV	4M15F9W
	WCDMA Band V	4M16F9W
	HSDPA Band V	4M17F9W
	HSUPA Band V	4M16F9W
	CDMA BC0	1M27F9W
	EVDO BC0	1M28F9W
	CDMA BC1	1M28F9W
	EVDO BC1	1M28F9W
	LTE-Band 2 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	1M10D7W
	LTE-Band 2 (Bandwidth 3MHz) QPSK	2M70G7D
	LTE-Band 2 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 2 (Bandwidth 5MHz) QPSK	4M50G7D
	LTE-Band 2 (Bandwidth 5MHz) 16QAM	4M51D7W
	LTE-Band 2 (Bandwidth 10MHz) QPSK	9M01G7D
	LTE-Band 2 (Bandwidth 10MHz) 16QAM	8M96D7W
	LTE-Band 2 (Bandwidth 15MHz) QPSK	13M4G7D
	LTE-Band 2 (Bandwidth 15MHz) 16QAM	13M5D7W
	LTE-Band 2 (Bandwidth 20MHz) QPSK	17M9G7D
	LTE-Band 2 (Bandwidth 20MHz) 16QAM	17M9D7W
	LTE-Band 4 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	1M11D7W
	LTE-Band 4 (Bandwidth 3MHz) QPSK	2M70G7D
	LTE-Band 4 (Bandwidth 3MHz) 16QAM	2M71D7W
LTE-Band 4 (Bandwidth 5MHz) QPSK	4M51G7D	
LTE-Band 4 (Bandwidth 5MHz) 16QAM	4M50D7W	
LTE-Band 4 (Bandwidth 10MHz) QPSK	9M01G7D	
LTE-Band 4 (Bandwidth 10MHz) 16QAM	8M96D7W	
LTE-Band 4 (Bandwidth 15MHz) QPSK	13M4G7D	
LTE-Band 4 (Bandwidth 15MHz) 16QAM	13M4D7W	
LTE-Band 4 (Bandwidth 20MHz) QPSK	17M9G7D	
LTE-Band 4 (Bandwidth 20MHz) 16QAM	17M9D7W	

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Type of Emission:	LTE-Band 5 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	1M10D7W
	LTE-Band 5 (Bandwidth 3MHz) QPSK	2M70G7D
	LTE-Band 5 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 5 (Bandwidth 5MHz) QPSK	4M50G7D
	LTE-Band 5 (Bandwidth 5MHz) 16QAM	4M50D7W
	LTE-Band 5 (Bandwidth 10MHz) QPSK	9M00G7D
	LTE-Band 5 (Bandwidth 10MHz) 16QAM	9M00D7W
	LTE-Band 7 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 7 (Bandwidth 5MHz) 16QAM	4M50D7W
	LTE-Band 7 (Bandwidth 10MHz) QPSK	8M99G7D
	LTE-Band 7 (Bandwidth 10MHz) 16QAM	8M97D7W
	LTE-Band 7 (Bandwidth 15MHz) QPSK	13M4G7D
	LTE-Band 7 (Bandwidth 15MHz) 16QAM	13M4D7W
	LTE-Band 7 (Bandwidth 20MHz) QPSK	17M9G7D
	LTE-Band 7 (Bandwidth 20MHz) 16QAM	17M9D7W
	LTE-Band 12 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 12 (Bandwidth 1.4MHz) 16QAM	1M10D7W
	LTE-Band 12 (Bandwidth 3MHz) QPSK	2M71G7D
	LTE-Band 12 (Bandwidth 3MHz) 16QAM	2M72D7W
	LTE-Band 12 (Bandwidth 5MHz) QPSK	4M50G7D
	LTE-Band 12 (Bandwidth 5MHz) 16QAM	4M52D7W
	LTE-Band 12 (Bandwidth 10MHz) QPSK	9M06G7D
	LTE-Band 12 (Bandwidth 10MHz) 16QAM	9M04D7W
	LTE-Band 13 (Bandwidth 5MHz) QPSK	4M59G7D
	LTE-Band 13 (Bandwidth 5MHz) 16QAM	4M54D7W
	LTE-Band 13 (Bandwidth 10MHz) QPSK	8M94G7D
	LTE-Band 13 (Bandwidth 10MHz) 16QAM	8M96D7W
	LTE-Band 17 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 17 (Bandwidth 5MHz) 16QAM	4M52D7W
LTE-Band 17 (Bandwidth 10MHz) QPSK	8M93G7D	
LTE-Band 17 (Bandwidth 10MHz) 16QAM	8M94D7W	

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Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	20.36	ERP	0.109
EDGE 850 Band	16.81	ERP	0.048
GPRS 1900 Band	28.31	EIRP	0.678
EDGE 1900 Band	27.99	EIRP	0.630
WCDMA Band II	27.45	EIRP	0.556
HSDPA Band II	27.51	EIRP	0.564
HSUPA Band II	27.55	EIRP	0.569
WCDMA Band IV	28.04	EIRP	0.637
HSDPA Band IV	28.70	EIRP	0.741
HSUPA Band IV	27.56	EIRP	0.570
WCDMA Band V	15.26	ERP	0.034
HSDPA Band V	15.36	ERP	0.034
HSUPA Band V	15.73	ERP	0.037
CDMA 2000 BC0	16.20	ERP	0.042
EVDO 2000 BC0	15.00	ERP	0.032
CDMA 2000 BC1	25.29	EIRP	0.338
EVDO 2000 BC1	23.58	EIRP	0.228
LTE-Band 2 (Bandwidth 1.4MHz) QPSK	26.59	EIRP	0.456
LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	26.50	EIRP	0.447
LTE-Band 2 (Bandwidth 3MHz) QPSK	25.48	EIRP	0.353
LTE-Band 2 (Bandwidth 3MHz) 16QAM	26.79	EIRP	0.478
LTE-Band 2 (Bandwidth 5MHz) QPSK	27.33	EIRP	0.541
LTE-Band 2 (Bandwidth 5MHz) 16QAM	27.59	EIRP	0.574
LTE-Band 2 (Bandwidth 10MHz) QPSK	27.14	EIRP	0.518
LTE-Band 2 (Bandwidth 10MHz) 16QAM	27.65	EIRP	0.582
LTE-Band 2 (Bandwidth 15MHz) QPSK	26.94	EIRP	0.494
LTE-Band 2 (Bandwidth 15MHz) 16QAM	27.32	EIRP	0.540
LTE-Band 2 (Bandwidth 20MHz) QPSK	26.38	EIRP	0.435
LTE-Band 2 (Bandwidth 20MHz) 16QAM	27.18	EIRP	0.522
LTE-Band 4 (Bandwidth 1.4MHz) QPSK	28.50	EIRP	0.708
LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	28.94	EIRP	0.783
LTE-Band 4 (Bandwidth 3MHz) QPSK	28.60	EIRP	0.724
LTE-Band 4 (Bandwidth 3MHz) 16QAM	28.98	EIRP	0.791
LTE-Band 4 (Bandwidth 5MHz) QPSK	28.72	EIRP	0.745
LTE-Band 4 (Bandwidth 5MHz) 16QAM	29.07	EIRP	0.807
LTE-Band 4 (Bandwidth 10MHz) QPSK	28.38	EIRP	0.689
LTE-Band 4 (Bandwidth 10MHz) 16QAM	28.54	EIRP	0.714
LTE-Band 4 (Bandwidth 15MHz) QPSK	28.36	EIRP	0.685
LTE-Band 4 (Bandwidth 15MHz) 16QAM	28.88	EIRP	0.773
LTE-Band 4 (Bandwidth 20MHz) QPSK	28.59	EIRP	0.723
LTE-Band 4 (Bandwidth 20MHz) 16QAM	28.90	EIRP	0.776

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LTE Band 5 (Bandwidth 1.4MHz) QPSK	14.66	ERP	0.029
LTE Band 5(Bandwidth 1.4MHz) 16QAM	15.51	ERP	0.036
LTE Band 5(Bandwidth 3MHz) QPSK	13.96	ERP	0.025
LTE Band 5 (Bandwidth 3MHz) 16QAM	15.26	ERP	0.034
LTE Band 5 (Bandwidth 5MHz) QPSK	14.03	ERP	0.025
LTE Band 5 (Bandwidth 5MHz) 16QAM	15.31	ERP	0.034
LTE Band 5 (Bandwidth 10MHz) QPSK	13.97	ERP	0.025
LTE Band 5 (Bandwidth 10MHz) 16QAM	15.27	ERP	0.034
LTE-Band 7 (Bandwidth 5MHz) QPSK	20.63	EIRP	0.116
LTE-Band 7 (Bandwidth 5MHz) 16QAM	20.96	EIRP	0.125
LTE-Band 7 (Bandwidth 10MHz) QPSK	19.96	EIRP	0.099
LTE-Band 7 (Bandwidth 10MHz) 16QAM	20.14	EIRP	0.103
LTE-Band 7 (Bandwidth 15MHz) QPSK	21.37	EIRP	0.137
LTE-Band 7 (Bandwidth 15MHz) 16QAM	21.57	EIRP	0.144
LTE-Band 7 (Bandwidth 20MHz) QPSK	21.23	EIRP	0.133
LTE-Band 7 (Bandwidth 20MHz) 16QAM	21.41	EIRP	0.138
LTE-Band 12 (Bandwidth 1.4MHz) QPSK	13.93	ERP	0.025
LTE-Band 12 (Bandwidth 1.4MHz) 16QAM	15.67	ERP	0.037
LTE-Band 12 (Bandwidth 3MHz) QPSK	14.06	ERP	0.025
LTE-Band 12 (Bandwidth 3MHz) 16QAM	15.63	ERP	0.037
LTE-Band 12 (Bandwidth 5MHz) QPSK	13.77	ERP	0.024
LTE-Band 12 (Bandwidth 5MHz) 16QAM	15.35	ERP	0.034
LTE-Band 12 (Bandwidth 10MHz) QPSK	13.64	ERP	0.023
LTE-Band 12 (Bandwidth 10MHz) 16QAM	15.11	ERP	0.032
LTE Band 13 (Bandwidth 5MHz) QPSK	11.91	ERP	0.016
LTE Band 13 (Bandwidth 5MHz) 16QAM	13.15	ERP	0.021
LTE Band 13 (Bandwidth 10MHz) QPSK	11.54	ERP	0.014
LTE Band 13 (Bandwidth 10MHz) 16QAM	12.80	ERP	0.019
LTE-Band 17 (Bandwidth 5MHz) QPSK	13.59	ERP	0.023
LTE-Band 17 (Bandwidth 5MHz) 16QAM	15.63	ERP	0.037
LTE-Band 17 (Bandwidth 10MHz) QPSK	13.32	ERP	0.021
LTE-Band 17 (Bandwidth 10MHz) 16QAM	15.38	ERP	0.035

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1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting, GPRS / WCDMA / CDMA / LTE, Wi-Fi 802.11abgn & ac, Bluetooth with GPS features, and below is details of information.

Product Feature	
Product Name:	Tablet PC
Brand Name:	hp
Model No.:	HSTNN-I72C
Model Difference:	N/A
FCC ID	B94HNI72CAM
GPRS Operating Band(s)	GPRS 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 12 / Class 12
CDMA / EVDO	BC0 / BC1
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.99
LTE Operating Band(s)	FCC Band 2 / 4 / 5 / 7 / 12 / 13 / 17
LTE Rel. Version	Rel.10
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Version	V4.0 dual mode + HS

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, 27.

ANSI / TIA / EIA 603C-C-2004

KDB971168 D01 Power Meas license Digital System v02r01

KDB941225 of the Output power Procedure of (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.

1.4. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 990257

Canada Registration Number: 4620A-4..

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

According to measurement procured TIA/EIA 603C, The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

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2.4. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation example with cable loss 0.6 dB for low band and 0.9 for high band with 10 dB attenuator and 3.2 splitter.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =13.8 (dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =14.1(dB)

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2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GPRS 850	7.7	893
GPRS 1900	7.7	813
EDGE 850	7.7	769
EDGE 1900	7.7	774
WCDMA B2	7.7	798
HSUPA B4	7.7	814
HSDPA B5	7.7	771
EVDO BC0	7.7	887
EVDO BC1	7.7	917
LTE Band 2	7.7	814
LTE Band 4	7.7	994
LTE Band 5	7.7	991
LTE Band 7	7.7	914
LTE Band 12	7.7	987
LTE Band 13	7.7	898
LTE Band 17	7.7	879

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2.6. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

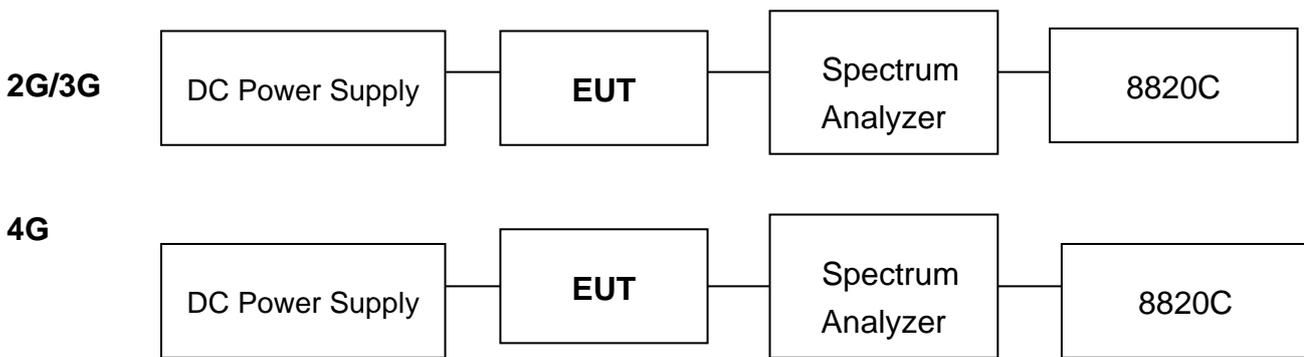


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

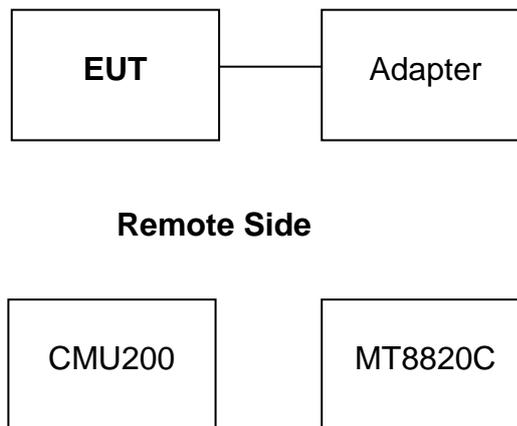


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
2.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(h)(2)	ERP/ EIRP measurement	Compliant
§2.1049(h)	Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(c)(2), (4) §27.50(c)(5) §27.53(h) §27.53(m)(4)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(g) §27.53(h) §27.53(f) §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50(i) (B)	Peak to Average Ratio	Compliant
§27.53(f)	§4.6 (RSS-130)	Spurious emission in 1559 -1610MHz Band
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	ERP/EIRP	RADIATED EMISSION
GPRS/EDGE 850	E2-plan	E2-plan
GPRS/EDGE 1900	E2-plan	E2-plan
WCDMA/HSPA Band II	E2-plan	E2-plan
WCDMA/HSPA Band IV	E2-plan	E2-plan
WCDMA/HSPA Band V	E2-plan	E2-plan
CDMA / EVDO BC 0	H-plan	H-plan
CDMA / EVDO BC 1	H-plan	H-plan
LTE Band 2 / 4 / 5 / 7 / 12 / 13/ 17	E2-plan	E2-plan

GPRS/EDGE MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	128 to 251	128, 190, 251	GPRS/EDGE 850
EIRP	512 to 810	512, 661, 810	GPRS/EDGE 1900
FREQUENCY STABILITY	128 to 251 512 to 810	190 661	GPRS 850 GPRS 1900
OCCUPIED BANDWIDTH	128 to 251 512 to 810	190 661	GPRS/EDGE 850 GPRS/EDGE 1900
PEAK TO AVERAGE RATIO	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GPRS/EDGE 850 GPRS/EDGE 1900
BAND EDGE	128 to 251 512 to 810	128, 251 512, 810	GPRS/EDGE 850 GPRS/EDGE 1900
CONDCUDED EMISSION	128 to 251 512 to 810	128, 251 512, 810	GPRS/EDGE 850 GPRS/EDGE 1900
RADIATED EMISSION	128 to 251 512 to 810	128, 251 512, 810	GPRS 850 GPRS 1900

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538 1312 to 1513	9262, 9400, 9583 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
FREQUENCY STABILITY	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA Band II WCDMA Band IV WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4233 1312, 1513 9262, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
CONDCUDED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	HSUDPA Band II HSDPA Band IV HSUPA Band V

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CDMA/EVDO MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	1013 to 777	1013, 384, 777	CDMA/EVDO BC0
EIRP	25 to 1175	25, 600, 1175	CDMA/EVDO BC1
FREQUENCY STABILITY	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA BC0 CDMA BC1
OCCUPIED BANDWIDTH	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA/EVDO BC0 CDMA/EVDO BC1
PEAK TO AVERAGE RATIO	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA/EVDO BC0 CDMA/EVDO BC1
BAND EDGE	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA BC0 CDMA BC1
CONDCUDED EMISSION	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA BC0 CDMA BC1
EMISSION MASK	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA BC0 CDMA BC1
RADIATED EMISSION	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA BC0 CDMA BC1

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LTE Band 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	16QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18650 to 19150	18650, 18900, 19150	10MHz	16QAM	1 RB/ 0 RB Offest

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LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	16QAM	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK,	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK,	1 RB, 0 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK,	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	19975 to 20375	19975, 20175, 20375	5MHz	16QAM,	1 RB, 24 RB Offest

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDCUDED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM,	1 RB/ 0 RB Offset

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LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	16QAM	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK,	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20850 to 21375	20850, 21100, 21375	15MHz	16QAM,	1 RB, 74 RB Offest
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK,	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	16QAM	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	1 RB/ 0 RB Offest

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LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
	23230	23230	10MHz	16QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDCUDED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offset
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	16QAM,	1 RB/ 24 RB Offset

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LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	16QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB, 0 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	1 RB, 24 RB Offest

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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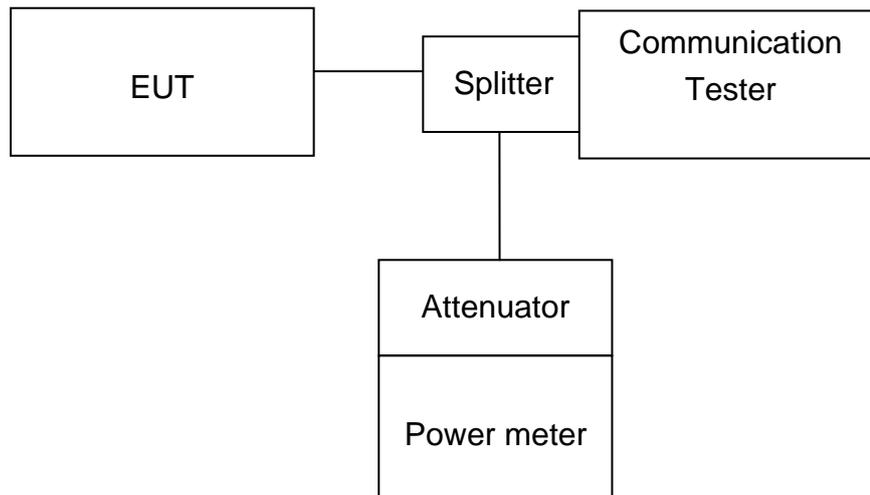
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

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6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
Spectrum Analyzer	Agilent	E4440A	MY45304525	05/05/2015	05/04/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	KR93300208	08/14/2015	08/13/2016

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6.5. Measurement Result

RF Conducted Output Power

GPRS/EDGE (GMSK; 8-PSK) Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	33.50	33.10	33.10	32.90	30.80	30.70	29.20	28.90
	836.6	190	33.60	33.20	33.20	33.00	30.70	30.60	29.60	29.00
	848.8	251	33.60	33.20	33.30	33.00	31.10	31.00	30.50	28.90
GPRS 1900	1850.2	512	30.80	30.60	30.40	29.90	27.70	27.60	25.80	25.60
	1880.0	661	30.80	30.60	30.20	30.00	27.50	27.50	25.50	25.30
	1909.8	810	30.80	30.60	30.50	30.00	27.70	27.70	25.60	25.40
EDGE 850	824.2	128	30.80	27.50	30.50	26.30	30.40	26.20	28.20	24.10
	836.6	190	30.70	27.40	30.40	26.20	30.30	26.10	28.10	24.10
	848.8	251	31.00	27.50	30.80	26.50	30.70	26.50	28.60	24.40
EDGE 1900	1850.2	512	29.10	26.10	28.90	25.50	29.10	25.50	28.70	23.50
	1880.0	661	28.90	25.70	28.70	25.20	28.90	25.10	28.50	23.20
	1909.8	810	29.10	26.00	28.80	25.40	29.00	25.30	28.80	23.50

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CDMA/EVDO Result:

EUT Mode	Frequency (MHz)	CH	CDMA	EVDO
			Avg. Power (dBm)	Avg. Power (dBm)
BC0	824.7	1013	23.73	23.82
	836.52	384	24.05	24.11
	848.31	777	24.00	24.05
BC1	1851.25	25	24.37	24.41
	1880	600	24.21	24.22
	1908.75	1175	24.27	24.29

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WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

EUT Mode		WCDMA Band II		HSDPA Band II		HSUPA Band II	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1852.4	9262	26.68	23.78	26.19	22.53	25.78	22.02
1880.0	9400	26.77	23.47	26.22	22.39	25.91	21.83
1907.6	9538	26.45	23.61	26.13	22.48	25.77	21.97

EUT Mode		WCDMA Band IV		HSDPA Band IV		HSUPA Band IV	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1712.4	1312	26.50	23.52	26.31	22.55	26.00	21.95
1732.6	1412	26.47	23.21	25.98	22.13	25.50	21.64
1752.6	1513	26.32	23.04	26.09	22.24	25.64	21.67

EUT Mode		WCDMA Band V		HSDPA Band V		HSUPA Band V	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
826.4	4132	26.25	23.11	25.73	21.96	25.34	21.37
836.6	4183	26.57	23.32	26.13	22.19	25.68	21.72
846.6	4233	26.66	23.36	26.17	22.31	25.78	21.73

Note: The results above reflect max power with all up bits.

Cable loss offset: Low Band: 0.6dB, High Band: 0.9dB

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LTE Result:

LTE Band 2

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18607	Channel (Mid) 18900	Channel (High) 19193	Channel (Low) 18607	Channel (Mid) 18900	Channel (High) 19193
1.4	1	0	22.90	22.72	23.05	22.01	21.99	21.68
	1	5	23.01	22.89	22.92	21.48	21.60	21.38
	3	2	22.20	21.90	22.06	21.09	20.89	20.89
	6	0	21.92	21.88	21.87	20.94	20.82	20.81

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185	Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185
3	1	0	22.94	22.70	22.89	21.71	21.73	22.01
	1	14	22.97	22.86	22.81	22.17	21.48	21.77
	8	4	21.95	21.82	21.94	21.05	20.88	21.03
	15	0	21.91	21.87	21.90	20.95	20.74	20.79

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175	Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175
5	1	0	22.95	22.76	23.02	21.91	21.50	21.98
	1	24	22.86	22.80	23.01	21.80	22.08	21.82
	12	6	21.97	21.90	21.95	21.07	20.89	20.99
	25	0	22.03	21.91	22.02	20.99	20.93	20.92

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LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150	Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150
10	1	0	23.05	23.01	23.01	22.21	22.07	21.83
	1	49	23.05	22.92	22.98	22.38	21.79	21.71
	25	12	21.99	21.93	21.99	20.95	20.96	20.98
	50	0	22.07	21.89	22.04	20.93	20.96	20.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125	Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125
15	1	0	23.17	22.94	23.09	22.05	22.28	22.14
	1	74	22.98	23.03	23.04	22.15	22.32	22.42
	36	19	22.02	21.94	22.12	21.04	20.91	21.02
	75	0	22.06	22.04	22.00	21.09	20.91	21.04

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100	Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100
20	1	0	23.38	23.15	23.36	22.73	22.29	22.41
	1	99	23.13	22.88	23.09	21.81	21.64	21.82
	50	25	22.30	22.24	22.40	21.05	21.00	21.10
	100	0	22.34	22.24	22.37	21.03	20.96	21.22

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LTE Band 4

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393	Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393
1.4	1	0	22.78	22.60	22.64	21.55	21.18	21.63
	1	5	22.89	22.72	22.65	21.58	21.74	21.94
	3	2	22.02	21.85	21.89	21.01	20.84	20.80
	6	0	21.81	21.68	21.72	20.65	20.49	20.66

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385	Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385
3	1	0	22.83	22.66	22.54	21.63	21.85	21.18
	1	14	22.82	22.59	22.66	21.82	21.46	21.47
	8	4	21.66	21.64	21.54	20.60	20.73	20.57
	15	0	21.79	21.68	21.58	20.71	20.73	20.73

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375	Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375
5	1	0	22.79	22.58	22.44	21.91	21.85	21.58
	1	24	22.84	22.60	22.50	21.20	21.48	21.40
	12	6	21.75	21.65	21.57	20.73	20.74	20.71
	25	0	21.75	21.64	21.57	20.73	20.69	20.56

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350	Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350
10	1	0	22.84	22.67	22.44	21.92	21.80	21.72
	1	49	23.08	22.39	22.72	21.75	21.70	21.00
	25	12	21.83	21.72	21.60	20.90	20.65	20.59
	50	0	21.91	21.69	21.70	20.86	20.75	20.56

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325	Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325
15	1	0	23.01	22.96	22.51	22.20	21.71	21.77
	1	74	22.89	22.11	22.67	21.55	21.67	21.41
	36	19	21.91	21.68	21.56	20.84	20.67	20.56
	75	0	21.88	21.66	21.72	21.12	20.68	20.72

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300	Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300
20	1	0	23.15	23.25	23.12	22.21	22.05	22.24
	1	99	23.13	22.72	22.93	22.42	22.08	21.78
	50	25	22.33	22.09	22.01	21.26	21.08	20.98
	100	0	22.29	22.24	21.89	21.27	21.18	21.02

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LTE Band 5

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643	Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643
1.4	1	0	22.57	23.00	22.94	21.69	21.56	22.17
	1	5	22.71	23.08	23.03	21.51	22.21	21.87
	3	2	21.82	22.27	22.26	20.89	21.19	21.26
	6	0	21.68	22.03	22.02	20.61	20.97	20.84

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20415	Channel (Mid) 20525	Channel (High) 20635	Channel (Low) 20415	Channel (Mid) 20525	Channel (High) 20635
3	1	0	22.65	22.98	22.98	21.45	21.67	22.04
	1	14	22.69	22.97	23.04	21.84	21.93	21.89
	8	4	21.68	22.05	22.15	20.72	21.00	21.00
	15	0	21.74	22.01	22.15	20.86	20.91	20.91

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LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625	Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625
5	1	0	22.60	22.73	23.05	21.51	21.79	21.93
	1	24	22.63	22.97	22.96	21.83	22.01	21.69
	12	6	21.68	21.92	22.01	20.72	20.88	21.13
	25	0	21.64	21.95	22.01	20.65	20.92	21.09

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600	Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600
10	1	0	22.75	22.92	23.10	21.91	21.98	21.97
	1	49	22.97	23.18	22.97	22.14	22.29	21.71
	25	12	21.81	22.01	22.08	20.88	21.11	21.17
	50	0	21.90	22.06	22.20	20.84	21.09	21.18

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LTE Band 7

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425	Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425
5	1	0	22.29	22.69	22.90	21.38	21.49	22.20
	1	24	22.39	22.65	22.83	21.35	21.28	21.92
	12	6	21.44	21.69	21.90	20.43	20.75	20.98
	25	0	21.40	22.00	21.88	20.40	20.69	20.91

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400	Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400
10	1	0	22.38	22.65	23.07	21.18	21.23	22.20
	1	49	22.48	22.76	22.97	21.42	21.47	22.08
	25	12	21.28	21.69	21.91	20.32	20.74	20.97
	50	0	21.56	21.65	21.90	20.10	20.62	20.98

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LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375	Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375
15	1	0	22.36	22.63	23.02	21.39	21.70	21.46
	1	74	22.42	22.80	22.97	21.42	21.68	21.91
	36	19	21.51	21.64	21.92	20.53	20.76	20.92
	75	0	21.32	21.85	21.81	20.36	20.65	20.92

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350	Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350
20	1	0	22.59	22.72	22.91	21.44	22.00	21.89
	1	99	22.53	22.90	22.93	21.83	21.67	22.24
	50	25	21.68	21.82	21.99	20.59	20.79	21.08
	100	0	21.59	22.12	21.93	20.54	20.77	21.09

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LTE Band 12

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23017	Channel (Mid) 23095	Channel (High) 23173	Channel (Low) 23017	Channel (Mid) 23095	Channel (High) 23173
1.4	1	0	22.55	22.81	22.77	21.43	21.83	21.88
	1	5	22.79	22.89	22.76	22.19	21.65	21.54
	3	2	22.72	22.84	22.78	21.57	21.88	21.81
	6	0	21.72	21.93	21.81	20.55	20.79	20.61

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23025	Channel (Mid) 23095	Channel (High) 23165	Channel (Low) 23025	Channel (Mid) 23095	Channel (High) 23165
3	1	0	22.45	22.55	22.93	21.72	21.94	21.58
	1	14	22.61	22.81	22.89	21.68	22.02	21.63
	8	4	21.70	21.66	21.96	20.71	20.71	21.06
	15	0	21.68	21.95	21.68	20.72	21.11	21.20

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LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23035	Channel (Mid) 23095	Channel (High) 23155	Channel (Low) 23035	Channel (Mid) 23095	Channel (High) 23155
5	1	0	22.41	22.86	22.61	21.52	21.77	21.54
	1	24	22.94	22.80	22.80	21.97	21.66	21.87
	12	6	21.63	21.68	21.81	20.54	20.72	20.78
	25	0	21.63	21.71	21.83	20.59	21.04	20.80

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23060	Channel (Mid) 23095	Channel (High) 23130	Channel (Low) 23060	Channel (Mid) 23095	Channel (High) 23130
10	1	0	22.71	22.91	22.87	21.77	22.06	21.83
	1	49	23.04	22.91	23.00	22.25	21.67	22.29
	25	12	21.59	22.00	22.00	21.06	20.98	21.03
	50	0	21.95	22.07	22.05	20.92	21.02	21.12

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LTE Band 13

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255	Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255
5	1	0	22.66	22.70	22.75	21.31	21.88	21.40
	1	24	22.58	22.60	22.70	21.38	21.55	21.60
	12	6	21.75	21.74	21.67	20.80	20.77	20.71
	25	0	21.69	21.70	21.69	20.64	20.74	20.76

LTE Band 13_Uplink frequency band : 777 to 787 MHz				
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)	
			QPSK	16QAM
			Channel 23230	Channel 23230
10	1	0	22.60	22.03
	1	49	22.98	21.73
	25	12	21.88	20.87
	50	0	21.79	20.82

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LTE Band 17

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23755	Channel (Mid) 20790	Channel (High) 23825	Channel (Low) 23755	Channel (Mid) 20790	Channel (High) 23825
5	1	0	23.00	22.82	22.94	21.58	21.85	21.76
	1	24	22.75	22.79	22.92	21.43	21.90	21.73
	12	6	21.94	21.84	21.88	20.35	20.88	20.89
	25	0	21.48	21.81	21.91	20.96	20.90	20.82

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800	Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800
10	1	0	22.86	22.96	22.99	21.68	21.63	22.13
	1	49	23.04	23.08	22.97	21.83	21.89	21.92
	25	12	22.02	21.99	22.02	20.91	20.92	21.02
	50	0	22.00	21.98	22.07	20.91	20.98	20.96

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HSDPA Release 8 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	23.95	23.36	23.47	20.3dBm – 25.7dBm	Pass
	2	23.66	23.33	23.46	20.3dBm – 25.7dBm	Pass
	3	23.47	22.91	22.94	19.8dBm – 25.7dBm	Pass
	4	23.54	22.92	23.06	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	23.23	23.31	22.88	20.3dBm – 25.7dBm	Pass
	2	23.40	23.07	22.89	20.3dBm – 25.7dBm	Pass
	3	22.75	22.86	22.35	19.8dBm – 25.7dBm	Pass
	4	22.82	22.87	22.47	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	22.90	23.18	23.48	20.3dBm – 25.7dBm	Pass
	2	23.04	23.21	23.23	20.3dBm – 25.7dBm	Pass
	3	22.44	22.70	22.99	19.8dBm – 25.7dBm	Pass
	4	22.49	22.74	23.05	19.8dBm – 25.7dBm	Pass

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HSPA (HSDPA & HSUPA) Release 8 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.70	23.45	23.55	18.8dBm – 25.7dBm	Pass
	2	21.75	21.52	21.59	16.8dBm – 25.7dBm	Pass
	3	22.76	22.47	22.63	17.8dBm – 25.7dBm	Pass
	4	21.88	21.57	21.63	16.8dBm – 25.7dBm	Pass
	5	23.59	23.31	23.46	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		1312	1413	1513		
HSUPA (B4)	1	23.44	23.19	22.98	18.8dBm – 25.7dBm	Pass
	2	21.49	21.26	21.02	16.8dBm – 25.7dBm	Pass
	3	22.50	22.21	22.06	17.8dBm – 25.7dBm	Pass
	4	21.62	21.31	21.06	16.8dBm – 25.7dBm	Pass
	5	23.33	23.05	22.89	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	23.07	23.25	23.28	18.8dBm – 25.7dBm	Pass
	2	21.13	21.33	21.32	16.8dBm – 25.7dBm	Pass
	3	22.11	22.31	22.36	17.8dBm – 25.7dBm	Pass
	4	21.18	21.39	21.40	16.8dBm – 25.7dBm	Pass
	5	22.93	23.08	23.17	18.8dBm – 25.7dBm	Pass

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

FCC 22.913(a) Mobile station is limited to 7W.

FCC 24.232(b) Mobile station is limited to 2W.

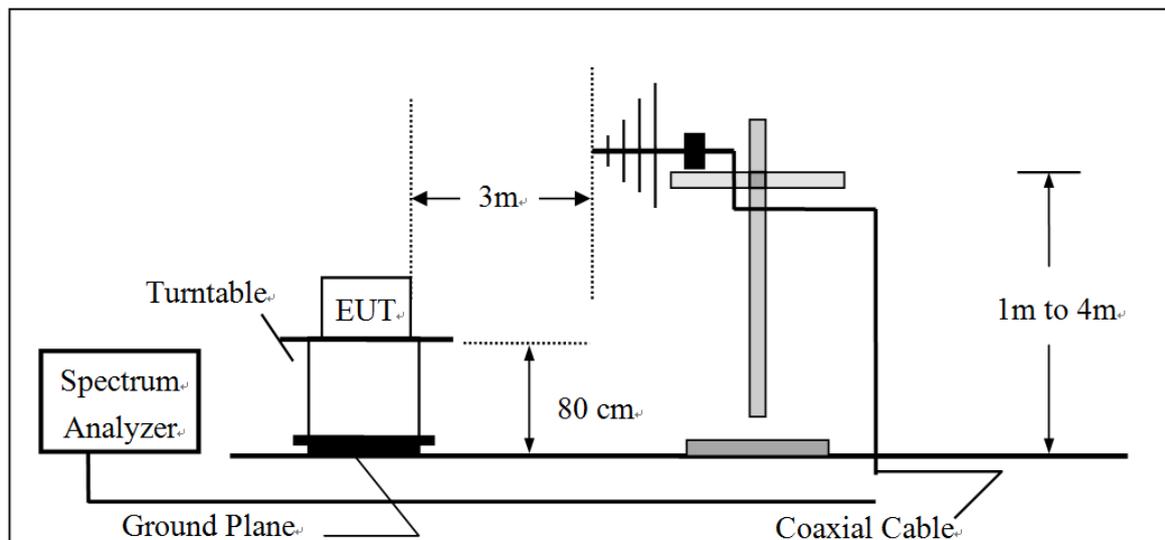
FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3W ERP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W.

FCC 27, 50(d)(4) Portable stations are limited to 1W

7.2. Test SET-UP

(A) Radiated Power Test Set-Up, Frequency Below 1000MHz



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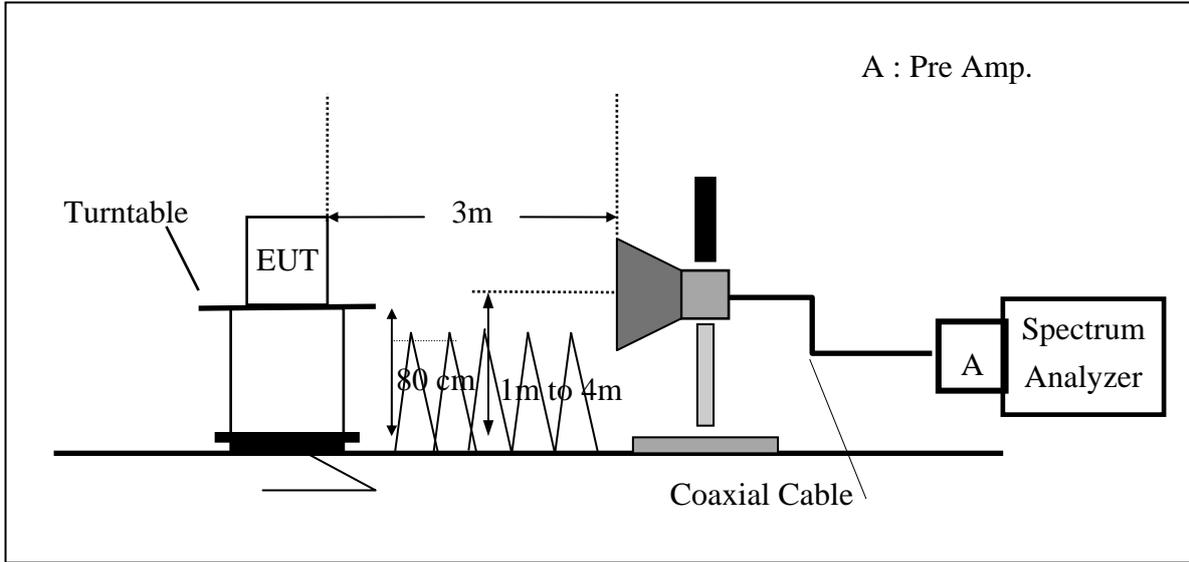
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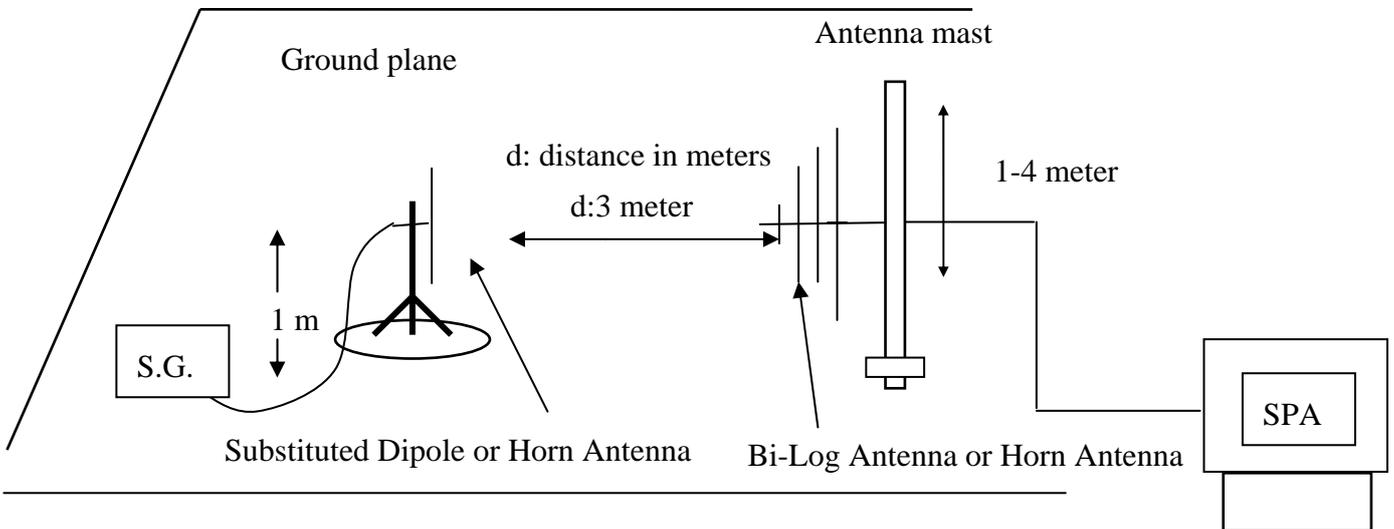
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 971168 D01
2. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
3. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated
4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
6. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
7. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
8. Spectrum setting:
 - (1) Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and $VBW \geq 3 \times RBW$.
 - (2) KDB 971168 D01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.
Set frequency = nominal signal center frequency;
Set span = 2 X occupied BW;
Set RBW \approx 1~5% of the span, not to exceed 1 MHz
Set VBW = 3 x RBW;
Select average power (RMS) detector
Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt
integration time (ex. Point = 601points, then sweep time = $601 \times 10^{-3} = 6s$.)

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Activate trace averaging routine over a minimum of 10 sweeps;
Activate marker/span pair and set span = signal or channel bandwidth;
Activate the band/interval power marker function;
Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of $10 \cdot \log(TBW/RBW)$, where TBW is the transmission of UE exceeding the maximum BW UE can extends, and RBW is the resolution BW in UE.

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7.4. Measurement Equipment Used

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Spectrum Analyzer	R&S	FSV-30	101398	09/23/2015	09/22/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	10/31/2014	10/30/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/05/2015	05/04/2016
Horn antenna	ETS.LINDGREN	3117	123991	12/19/2014	12/18/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/25/2015	07/24/2016
Network Analyze	Anritsu	MS4644A	1216312	05/23/2015	05/22/2016
Signal Generator	Agilent	E4438C	MY45093613	07/31/2015	07/30/2016
Pre-Amplifier	Agilent	8447D	1937A02834	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	25/09/2015	24/09/2016
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	060776	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/02/2015	01/01/2016
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/02/2015	01/01/2016
Filter 800-1000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1800-2000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1700-1800	Micro-Tronics	BRC15751	001	01/02/2015	01/01/2016
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2015	01/01/2016
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/01/2015	06/30/2016

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7.5. Measurement Result: (Peak) –using option of peak measurement

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	824.2	128	V	12.28	3.45	-2.94	12.79	38.45
			H	18.38	3.45	-2.94	18.89	38.45
	836.6	190	V	14.34	3.46	-2.97	14.83	38.45
			H	19.87	3.46	-2.97	20.36	38.45
	848.8	251	V	10.74	3.47	-3.01	11.20	38.45
			H	18.91	3.47	-3.01	19.37	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
EDGE 850	824.2	128	V	10.86	3.45	-2.94	11.37	38.45
			H	16.30	3.45	-2.94	16.81	38.45
	836.6	190	V	9.61	3.46	-2.97	10.10	38.45
			H	15.12	3.46	-2.97	15.61	38.45
	848.8	251	V	8.01	3.47	-3.01	8.47	38.45
			H	15.71	3.47	-3.01	16.17	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300 kHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	1850.2	512	V	27.79	4.84	-4.49	28.15	33.01
			H	23.50	4.84	-4.49	23.85	33.01
	1880.0	661	V	27.31	4.79	-4.53	27.58	33.01
			H	27.33	4.79	-4.53	27.60	33.01
	1909.8	810	V	28.13	4.74	-4.57	28.31	33.01
			H	24.67	4.74	-4.57	24.85	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
EDGE 1900	1850.2	512	V		dBi	dB	dBm	dBm
			H	26.67	4.84	-4.49	27.03	33.01
	1880.0	661	V	22.95	4.84	-4.49	23.31	33.01
			H	26.07	4.79	-4.53	26.34	33.01
	1909.8	810	V	25.16	4.79	-4.53	25.43	33.01
			H	27.81	4.74	-4.57	27.99	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300 kHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B2	1852.4	9262	V	25.26	4.84	-4.49	25.61	33.01
			H	24.41	4.84	-4.49	24.76	33.01
	1880.0	9400	V	25.06	4.79	-4.53	25.33	33.01
			H	25.16	4.79	-4.53	25.43	33.01
	1907.6	9538	V	27.26	4.75	-4.56	27.45	33.01
			H	23.27	4.75	-4.56	23.45	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA B2	1852.4	9262	V	24.81	4.84	-4.49	25.16	33.01
			H	25.93	4.84	-4.49	26.28	33.01
	1880.0	9400	V	27.24	4.79	-4.53	27.51	33.01
			H	26.43	4.79	-4.53	26.70	33.01
	1907.6	9538	V	26.91	4.75	-4.56	27.09	33.01
			H	23.46	4.75	-4.56	23.65	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA B2	1852.4	9262	V	25.71	4.84	-4.49	26.07	33.01
			H	24.88	4.84	-4.49	25.23	33.01
	1880.0	9400	V	26.28	4.79	-4.53	26.55	33.01
			H	24.75	4.79	-4.53	25.02	33.01
	1907.6	9538	V	27.36	4.75	-4.56	27.55	33.01
			H	22.81	4.75	-4.56	23.00	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B4	1712.4	1312	V	24.63	5.09	-4.29	25.42	30.00
			H	26.81	5.09	-4.29	27.61	30.00
	1732.6	1413	V	27.31	5.05	-4.31	28.04	30.00
			H	24.7	5.05	-4.31	25.43	30.00
	1752.6	1513	V	26.32	5.01	-4.37	26.96	30.00
			H	25.79	5.01	-4.37	26.44	30.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA B4	1712.4	1312	V	27.43	5.08	-4.29	28.22	30.00
			H	25.09	5.09	-4.29	25.89	30.00
	1732.6	1413	V	27.96	5.05	-4.31	28.70	30.00
			H	25.69	5.05	-4.31	26.43	30.00
	1752.6	1513	V	25.14	5.01	-4.37	25.78	30.00
			H	27.28	5.01	-4.37	27.92	30.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA B4	1712.4	1312	V	26.77	5.09	-4.29	27.56	30.00
			H	24.47	5.09	-4.29	25.27	30.00
	1732.6	1413	V	26.36	5.05	-4.31	27.09	30.00
			H	24.16	5.05	-4.31	24.90	30.00
	1752.6	1513	V	25.68	5.01	-4.37	26.33	30.00
			H	26.19	5.01	-4.37	26.84	30.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA B5	826.4	4132	V	8.53	3.46	-2.95	9.04	38.45
			H	14.74	3.46	-2.94	15.26	38.45
	836.6	4183	V	7.76	3.46	-2.98	8.24	38.45
			H	13.18	3.46	-2.97	13.67	38.45
	846.6	4233	V	6.36	3.47	-3.00	6.83	38.45
			H	14.37	3.47	-3.00	14.84	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA B5	826.4	4132	V	8.16	3.46	-2.95	8.67	38.45
			H	14.84	3.46	-2.94	15.36	38.45
	836.6	4183	V	7.06	3.46	-2.97	7.55	38.45
			H	14.80	3.46	-2.97	15.29	38.45
	846.6	4233	V	9.46	3.47	-3.00	9.93	38.45
			H	13.70	3.47	-3.00	14.17	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA B5	826.4	4132	V	5.21	3.46	-2.94	5.73	38.45
			H	14.61	3.46	-2.94	15.13	38.45
	836.6	4183	V	5.61	3.46	-2.97	6.10	38.45
			H	14.30	3.46	-2.98	14.78	38.45
	846.6	4233	V	9.81	3.47	-3.00	10.28	38.45
			H	15.26	3.47	-3.00	15.73	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300 kHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA BC0	824.7	1013	V	15.69	3.46	-2.94	16.20	38.45
			H	12.42	3.46	-2.94	12.94	38.45
	836.52	384	V	14.82	3.46	-2.98	15.30	38.45
			H	11.36	3.46	-2.97	11.85	38.45
	848.31	777	V	15.10	3.47	-3.01	15.56	38.45
			H	10.29	3.47	-3.01	10.76	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
EVDO BC0	824.7	1013	V	14.48	3.46	-2.94	15.00	38.45
			H	11.07	3.46	-2.94	11.58	38.45
	836.52	384	V	13.34	3.46	-2.97	13.82	38.45
			H	10.41	3.46	-2.97	10.90	38.45
	848.31	777	V	13.83	3.47	-3.01	14.29	38.45
			H	8.69	3.47	-3.01	9.15	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300 kHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
CDMA BC1	1851.25	25	V	22.86	4.84	-4.49	23.22	33.00
			H	23.62	4.84	-4.49	23.98	33.00
	1880.0	600	V	23.78	4.79	-4.53	24.05	33.00
			H	24.71	4.79	-4.53	24.97	33.00
	1908.75	1175	V	22.87	4.75	-4.56	23.05	33.00
			H	25.11	4.75	-4.56	25.29	33.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
EVDO BC1	1851.25	25	V	21.81	4.84	-4.49	22.16	33.00
			H	22.20	4.84	-4.49	22.55	33.00
	1880.0	600	V	22.17	4.79	-4.53	22.44	33.00
			H	23.06	4.79	-4.53	23.33	33.00
	1908.75	1175	V	21.64	4.75	-4.56	21.83	33.00
			H	23.40	4.75	-4.56	23.58	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300 kHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	26.24	4.84	-4.49	26.59	33.01
			H	21.73	4.84	-4.49	22.08	33.01
	1880.0	18900	V	25.41	4.80	-4.52	25.68	33.01
			H	23.24	4.80	-4.52	23.51	33.01
	1909.3	19193	V	24.08	4.75	-4.56	24.27	33.01
			H	21.97	4.75	-4.56	22.16	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	24.08	4.84	-4.49	24.43	33.01
			H	21.25	4.84	-4.49	21.60	33.01
	1880.0	18900	V	24.97	4.80	-4.52	25.24	33.01
			H	22.95	4.80	-4.52	23.22	33.01
	1909.3	19193	V	24.81	4.75	-4.56	25.00	33.01
			H	22.04	4.75	-4.56	22.22	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	24.99	4.84	-4.49	25.34	33.01
			H	22.03	4.84	-4.49	22.39	33.01
	1880.0	18900	V	26.22	4.80	-4.52	26.50	33.01
			H	24.48	4.80	-4.52	24.76	33.01
	1909.3	19193	V	25.74	4.75	-4.56	25.92	33.01
			H	22.90	4.75	-4.56	23.09	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	25.21	4.84	-4.49	25.56	33.01
			H	22.03	4.84	-4.49	22.38	33.01
	1880.0	18900	V	26.10	4.80	-4.52	26.37	33.01
			H	24.28	4.80	-4.52	24.56	33.01
	1909.3	19193	V	12.63	4.75	-4.56	25.96	33.01
			H	12.04	4.75	-4.56	24.12	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	24.47	4.84	-4.49	24.83	33.01
			H	21.46	4.84	-4.49	21.81	33.01
	1880.0	18900	V	25.21	4.80	-4.52	25.48	33.01
			H	23.59	4.80	-4.52	23.87	33.01
	1908.5	19185	V	24.76	4.75	-4.56	24.95	33.01
			H	22.39	4.75	-4.56	22.58	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	24.08	4.84	-4.49	24.44	33.01
			H	21.16	4.84	-4.49	21.51	33.01
	1880.0	18900	V	25.01	4.79	-4.53	25.28	33.01
			H	23.34	4.79	-4.53	23.60	33.01
	1908.5	19185	V	24.73	4.75	-4.56	24.92	33.01
			H	22.08	4.75	-4.56	22.26	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	25.05	4.84	-4.49	25.41	33.01
			H	22.27	4.84	-4.49	22.62	33.01
	1880.0	18900	V	26.32	4.80	-4.52	26.60	33.01
			H	24.69	4.80	-4.52	24.96	33.01
	1908.5	19185	V	25.98	4.75	-4.56	26.18	33.01
			H	23.43	4.75	-4.56	23.62	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	25.01	4.84	-4.49	25.36	33.01
			H	22.22	4.84	-4.49	22.58	33.01
	1880.0	18900	V	26.52	4.79	-4.53	26.79	33.01
			H	24.36	4.79	-4.53	24.63	33.01
	1908.5	19185	V	25.81	4.75	-4.56	25.99	33.01
			H	22.85	4.75	-4.56	23.04	33.01

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	25.61	4.84	-4.49	25.97	33.01
			H	22.84	4.84	-4.49	23.19	33.01
	1880.0	18900	V	27.05	4.80	-4.52	27.33	33.01
			H	24.74	4.80	-4.52	25.02	33.01
	1907.5	19175	V	26.29	4.75	-4.56	26.48	33.01
			H	24.38	4.75	-4.56	24.58	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	23.87	4.84	-4.49	24.22	33.01
			H	22.40	4.84	-4.49	22.75	33.01
	1880.0	18900	V	26.86	4.79	-4.53	27.12	33.01
			H	24.49	4.79	-4.53	24.75	33.01
	1907.5	19175	V	25.51	4.75	-4.56	25.70	33.01
			H	23.93	4.75	-4.56	24.11	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	26.01	4.84	-4.49	26.36	33.01
			H	23.24	4.84	-4.49	23.59	33.01
	1880.0	18900	V	27.31	4.80	-4.52	27.59	33.01
			H	25.26	4.80	-4.52	25.54	33.01
	1907.5	19175	V	25.74	4.75	-4.56	25.94	33.01
			H	24.71	4.75	-4.56	24.91	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	25.50	4.84	-4.49	25.85	33.01
			H	22.77	4.84	-4.49	23.12	33.01
	1880.0	18900	V	26.71	4.79	-4.53	26.97	33.01
			H	24.75	4.79	-4.53	25.02	33.01
	1907.5	19175	V	25.15	4.75	-4.56	25.33	33.01
			H	24.09	4.75	-4.56	24.27	33.01

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	25.33	4.84	-4.49	25.68	33.01
			H	22.58	4.84	-4.49	22.93	33.01
	1880.0	18900	V	26.85	4.80	-4.52	27.14	33.01
			H	24.72	4.80	-4.52	25.00	33.01
	1905.0	19150	V	26.32	4.76	-4.55	26.53	33.01
			H	24.63	4.76	-4.55	24.84	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	24.89	4.83	-4.50	25.23	33.01
			H	22.65	4.83	-4.50	22.98	33.01
	1880.0	18900	V	26.17	4.79	-4.53	26.42	33.01
			H	23.96	4.79	-4.53	24.22	33.01
	1905.0	19150	V	25.21	4.75	-4.56	25.39	33.01
			H	23.38	4.75	-4.56	23.57	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	24.34	4.84	-4.49	24.69	33.01
			H	22.94	4.84	-4.49	23.29	33.01
	1880.0	18900	V	27.36	4.80	-4.52	27.65	33.01
			H	25.22	4.80	-4.52	25.51	33.01
	1905.0	19150	V	26.98	4.76	-4.55	27.20	33.01
			H	24.76	4.76	-4.55	24.97	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	25.52	4.83	-4.50	25.86	33.01
			H	23.12	4.83	-4.50	23.46	33.01
	1880.0	18900	V	26.66	4.79	-4.53	26.92	33.01
			H	24.28	4.79	-4.53	24.54	33.01
	1905.0	19150	V	25.25	4.75	-4.56	25.43	33.01
			H	23.78	4.75	-4.56	23.96	33.01

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	25.20	4.84	-4.49	25.55	33.01
			H	22.52	4.84	-4.49	22.88	33.01
	1880.0	18900	V	26.65	4.81	-4.52	26.94	33.01
			H	24.54	4.81	-4.52	24.83	33.01
	1902.5	19125	V	26.40	4.77	-4.55	26.63	33.01
			H	23.98	4.77	-4.54	24.20	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	25.65	4.82	-4.50	25.96	33.01
			H	22.75	4.82	-4.50	23.07	33.01
	1880.0	18900	V	25.83	4.79	-4.53	26.08	33.01
			H	23.55	4.79	-4.53	23.80	33.01
	1902.5	19125	V	24.99	4.75	-4.56	25.18	33.01
			H	23.21	4.75	-4.56	23.39	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	25.53	4.84	-4.49	25.88	33.01
			H	22.89	4.84	-4.49	23.24	33.01
	1880.0	18900	V	27.03	4.81	-4.52	27.32	33.01
			H	25.06	4.81	-4.52	25.35	33.01
	1902.5	19125	V	26.97	4.77	-4.55	27.19	33.01
			H	24.69	4.77	-4.54	24.91	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	26.01	4.82	-4.50	26.33	33.01
			H	22.64	4.82	-4.50	22.96	33.01
	1880.0	18900	V	26.47	4.79	-4.53	26.73	33.01
			H	24.18	4.78	-4.53	24.43	33.01
	1902.5	19125	V	25.24	4.75	-4.56	25.43	33.01
			H	23.76	4.75	-4.56	23.95	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	25.13	4.84	-4.49	25.48	33.01
			H	22.52	4.84	-4.49	22.87	33.01
	1880.0	18900	V	25.93	4.81	-4.52	26.22	33.01
			H	23.90	4.81	-4.52	24.18	33.01
	1900.0	19100	V	26.11	4.77	-4.54	26.34	33.01
			H	22.96	4.77	-4.54	23.19	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	25.98	4.81	-4.51	26.28	33.01
			H	23.81	4.82	-4.51	24.12	33.01
	1880.0	18900	V	26.14	4.78	-4.54	26.38	33.01
			H	22.62	4.78	-4.54	22.86	33.01
	1900.0	19100	V	25.07	4.75	-4.56	25.25	33.01
			H	23.37	4.75	-4.56	23.55	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	25.15	4.84	-4.49	25.50	33.01
			H	22.87	4.84	-4.49	23.22	33.01
	1880.0	18900	V	26.89	4.80	-4.52	27.18	33.01
			H	24.87	4.81	-4.52	25.16	33.01
	1900.0	19100	V	26.60	4.77	-4.54	26.83	33.01
			H	23.58	4.77	-4.54	23.81	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	26.76	4.81	-4.51	27.06	33.01
			H	24.62	4.81	-4.51	24.92	33.01
	1880.0	18900	V	26.48	4.78	-4.54	26.73	33.01
			H	23.35	4.78	-4.54	23.59	33.01
	1900.0	19100	V	25.29	4.75	-4.56	25.48	33.01
			H	23.20	4.75	-4.56	23.38	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 1.4M QPSK RB: 1,0	1710.7	19957	V	26.78	5.09	-4.29	27.58	30.00
			H	25.03	5.09	-4.29	25.83	30.00
	1732.5	20175	V	27.60	5.05	-4.31	28.34	30.00
			H	25.67	5.05	-4.31	26.42	30.00
	1754.3	20393	V	27.68	5.01	-4.37	28.33	30.00
			H	26.45	5.01	-4.37	27.09	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	26.97	5.09	-4.29	27.77	30.00
			H	24.03	5.09	-4.29	24.84	30.00
	1732.5	20175	V	27.73	5.04	-4.32	28.45	30.00
			H	25.60	5.05	-4.31	26.34	30.00
	1754.3	20393	V	27.86	5.01	-4.37	28.50	30.00
			H	25.61	5.01	-4.37	26.26	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	26.93	5.09	-4.29	27.73	30.00
			H	23.84	5.09	-4.29	24.63	30.00
	1732.5	20175	V	27.68	5.05	-4.31	28.43	30.00
			H	25.76	5.05	-4.31	26.50	30.00
	1754.3	20393	V	28.29	5.01	-4.37	28.94	30.00
			H	26.48	5.01	-4.37	27.13	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	26.77	5.09	-4.29	27.58	30.00
			H	24.26	5.09	-4.29	25.06	30.00
	1732.5	20175	V	27.84	5.05	-4.31	28.59	30.00
			H	25.96	5.05	-4.31	26.70	30.00
	1754.3	20393	V	28.14	5.01	-4.37	28.78	30.00
			H	26.78	5.01	-4.37	27.42	30.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	26.80	5.09	-4.29	27.60	30.00
			H	25.17	5.09	-4.29	25.96	30.00
	1732.5	20175	V	27.57	5.05	-4.31	28.31	30.00
			H	25.73	5.05	-4.31	26.48	30.00
	1753.5	20385	V	27.66	5.01	-4.37	28.30	30.00
			H	26.47	5.02	-4.36	27.12	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	26.03	5.09	-4.29	26.83	30.00
			H	24.38	5.09	-4.29	25.18	30.00
	1732.5	20175	V	27.79	5.04	-4.32	28.51	30.00
			H	25.17	5.05	-4.31	25.91	30.00
	1753.5	20385	V	27.96	5.01	-4.37	28.60	30.00
			H	26.64	5.01	-4.37	27.29	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	26.62	5.09	-4.29	27.42	30.00
			H	23.98	5.09	-4.29	24.78	30.00
	1732.5	20175	V	27.81	5.05	-4.31	28.56	30.00
			H	25.69	5.05	-4.31	26.42	30.00
	1753.5	20385	V	27.82	5.01	-4.37	28.45	30.00
			H	27.02	5.02	-4.36	27.68	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	26.99	5.09	-4.29	27.79	30.00
			H	24.38	5.09	-4.29	25.18	30.00
	1732.5	20175	V	27.92	5.04	-4.32	28.65	30.00
			H	25.04	5.05	-4.31	25.78	30.00
	1753.5	20385	V	28.34	5.01	-4.37	28.98	30.00
			H	26.92	5.01	-4.37	27.56	30.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	26.87	5.09	-4.29	27.67	30.00
			H	25.26	5.09	-4.29	26.05	30.00
	1732.5	20175	V	27.60	5.06	-4.30	28.35	30.00
			H	25.95	5.05	-4.31	26.69	30.00
	1752.5	20375	V	28.06	5.02	-4.36	28.72	30.00
			H	26.30	5.02	-4.36	26.96	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	27.36	5.08	-4.29	28.15	30.00
			H	24.62	5.08	-4.29	25.42	30.00
	1732.5	20175	V	27.81	5.05	-4.31	28.54	30.00
			H	25.98	5.05	-4.31	26.72	30.00
	1752.5	20375	V	27.85	5.01	-4.37	28.49	30.00
			H	26.70	5.01	-4.37	27.35	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	26.72	5.09	-4.29	27.52	30.00
			H	24.01	5.09	-4.29	24.81	30.00
	1732.5	20175	V	27.96	5.05	-4.31	28.70	30.00
			H	24.95	5.05	-4.31	25.69	30.00
	1752.5	20375	V	27.63	5.01	-4.37	28.27	30.00
			H	27.25	5.02	-4.36	27.92	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	27.40	5.09	-4.29	28.19	30.00
			H	25.88	5.09	-4.29	26.67	30.00
	1732.5	20175	V	28.00	5.05	-4.31	28.73	30.00
			H	26.15	5.05	-4.31	26.88	30.00
	1752.5	20375	V	28.43	5.01	-4.37	29.07	30.00
			H	26.79	5.01	-4.37	27.43	30.00

Remark :

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	26.81	5.09	-4.29	27.60	30.00
			H	25.13	5.09	-4.29	25.92	30.00
	1732.0	20175	V	27.60	5.05	-4.31	28.35	30.00
			H	26.58	5.05	-4.31	27.33	30.00
	1750.0	20350	V	17.68	5.02	-4.35	18.35	30.00
			H	26.74	5.02	-4.35	27.41	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	27.15	5.08	-4.29	27.93	30.00
			H	26.12	5.08	-4.29	26.90	30.00
	1732.0	20175	V	27.58	5.04	-4.32	28.31	30.00
			H	25.77	5.04	-4.32	26.49	30.00
	1750.0	20350	V	27.74	5.01	-4.37	28.38	30.00
			H	26.28	5.01	-4.37	26.92	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	25.60	5.09	-4.29	26.39	30.00
			H	23.88	5.09	-4.29	24.67	30.00
	1732.0	20175	V	27.80	5.05	-4.31	28.54	30.00
			H	26.02	5.05	-4.31	26.77	30.00
	1750.0	20350	V	27.08	5.02	-4.35	27.75	30.00
			H	26.57	5.02	-4.35	27.24	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	26.41	5.08	-4.29	27.19	30.00
			H	26.12	5.08	-4.29	26.90	30.00
	1732.0	20175	V	26.96	5.04	-4.32	27.68	30.00
			H	26.05	5.04	-4.32	26.78	30.00
	1750.0	20350	V	27.48	5.01	-4.37	28.12	30.00
			H	26.87	5.01	-4.37	27.51	30.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	26.61	5.09	-4.29	27.40	30.00
			H	24.94	5.09	-4.29	25.73	30.00
	1732.5	20175	V	27.19	5.06	-4.30	27.95	30.00
			H	26.36	5.06	-4.30	27.12	30.00
	1747.5	20325	V	27.53	5.03	-4.34	28.22	30.00
			H	26.15	5.03	-4.34	26.84	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	27.47	5.07	-4.30	28.24	30.00
			H	26.33	5.07	-4.30	27.10	30.00
	1732.5	20175	V	27.64	5.04	-4.33	28.36	30.00
			H	25.82	5.04	-4.33	26.53	30.00
	1747.5	20325	V	27.65	5.01	-4.37	28.30	30.00
			H	26.48	5.01	-4.37	27.13	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	25.62	5.09	-4.29	26.41	30.00
			H	24.96	5.09	-4.29	25.76	30.00
	1732.5	20175	V	27.59	5.06	-4.30	28.35	30.00
			H	26.66	5.06	-4.30	27.42	30.00
	1747.5	20325	V	27.82	5.03	-4.34	28.51	30.00
			H	26.29	5.03	-4.34	26.98	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	27.63	5.07	-4.30	28.40	30.00
			H	26.16	5.07	-4.30	26.93	30.00
	1732.5	20175	V	26.59	5.04	-4.33	27.30	30.00
			H	26.31	5.04	-4.33	27.02	30.00
	1747.5	20325	V	28.23	5.01	-4.37	28.88	30.00
			H	26.61	5.01	-4.37	27.25	30.00

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	26.66	5.08	-4.29	27.45	30.00
			H	25.06	5.08	-4.29	25.85	30.00
	1732.5	20175	V	27.16	5.06	-4.30	27.92	30.00
			H	26.22	5.06	-4.30	26.98	30.00
	1745.0	20300	V	27.60	5.04	-4.33	28.31	30.00
			H	25.20	5.04	-4.33	25.91	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	27.83	5.06	-4.30	28.59	30.00
			H	26.12	5.06	-4.30	26.88	30.00
	1732.5	20175	V	27.57	5.04	-4.33	28.28	30.00
			H	25.99	5.04	-4.33	26.70	30.00
	1745.0	20300	V	27.75	5.01	-4.37	28.40	30.00
			H	26.06	5.01	-4.37	26.71	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	27.02	5.08	-4.29	27.81	30.00
			H	24.02	5.08	-4.29	24.81	30.00
	1732.5	20175	V	18.70	5.06	-4.30	19.46	30.00
			H	25.98	5.06	-4.30	26.74	30.00
	1745.0	20300	V	27.15	5.04	-4.33	27.86	30.00
			H	26.22	5.04	-4.33	26.93	30.00
BAND 4 BW: 15M 16QAM RB: 1,99	1720.0	20050	V	28.00	5.06	-4.30	28.75	30.00
			H	26.53	5.06	-4.30	27.28	30.00
	1732.5	20175	V	27.98	5.04	-4.33	28.69	30.00
			H	26.33	5.04	-4.33	27.03	30.00
	1745.0	20300	V	28.26	5.01	-4.37	28.90	30.00
			H	27.00	5.01	-4.37	27.64	30.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	11.36	3.46	-2.94	11.87	38.45
			H	14.15	3.46	-2.94	14.66	38.45
	836.5	20525	V	12.79	3.46	-2.97	13.28	38.45
			H	13.63	3.46	-2.97	14.12	38.45
	848.3	20643	V	12.79	3.47	-3.00	13.26	38.45
			H	13.36	3.47	-3.00	13.82	38.45
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	10.68	3.46	-2.95	11.19	38.45
			H	12.40	3.46	-2.95	12.91	38.45
	836.5	20525	V	12.40	3.46	-2.97	12.89	38.45
			H	14.10	3.46	-2.97	14.58	38.45
	848.3	20643	V	12.08	3.47	-3.00	12.54	38.45
			H	12.72	3.47	-3.00	13.19	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	11.12	3.46	-2.94	11.63	38.45
			H	12.89	3.46	-2.94	13.40	38.45
	836.5	20525	V	13.13	3.46	-2.97	13.63	38.45
			H	15.02	3.46	-2.97	15.51	38.45
	848.3	20643	V	12.70	3.47	-3.00	13.16	38.45
			H	13.72	3.47	-3.00	14.18	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	11.06	3.46	-2.95	11.57	38.45
			H	12.83	3.46	-2.95	13.34	38.45
	836.5	20525	V	12.83	3.46	-2.97	13.32	38.45
			H	14.48	3.46	-2.97	14.97	38.45
	848.3	20643	V	12.12	3.47	-3.00	12.58	38.45
			H	13.03	3.47	-3.00	13.49	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	6.06	3.46	-2.94	6.57	38.45
			H	12.48	3.46	-2.94	12.99	38.45
	836.5	20525	V	6.81	3.46	-2.97	7.30	38.45
			H	13.47	3.46	-2.97	13.96	38.45
	847.5	20635	V	8.84	3.47	-3.00	9.31	38.45
			H	12.70	3.47	-3.00	13.16	38.45
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	6.61	3.46	-2.94	7.13	38.45
			H	12.75	3.46	-2.94	13.27	38.45
	836.5	20525	V	7.46	3.46	-2.97	7.95	38.45
			H	13.02	3.46	-2.97	13.51	38.45
	847.5	20635	V	8.72	3.47	-3.01	9.19	38.45
			H	13.12	3.47	-3.01	13.58	38.45
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	7.17	3.46	-2.94	7.69	38.45
			H	13.32	3.46	-2.94	13.84	38.45
	836.5	20525	V	13.68	3.46	-2.97	14.18	38.45
			H	14.77	3.46	-2.97	15.26	38.45
	847.5	20635	V	10.33	3.47	-3.00	10.79	38.45
			H	14.49	3.47	-3.00	14.96	38.45
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	11.15	3.46	-2.94	11.67	38.45
			H	13.55	3.46	-2.94	14.06	38.45
	836.5	20525	V	12.63	3.46	-2.97	13.12	38.45
			H	14.42	3.46	-2.97	14.91	38.45
	847.5	20635	V	9.70	3.47	-3.01	10.16	38.45
			H	14.23	3.47	-3.01	14.69	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	6.33	3.46	-2.94	6.85	38.45
			H	12.33	3.46	-2.94	12.84	38.45
	836.5	20525	V	8.17	3.46	-2.96	8.67	38.45
			H	13.53	3.46	-2.96	14.03	38.45
	846.5	20625	V	8.99	3.46	-2.99	9.46	38.45
			H	13.34	3.46	-2.99	13.82	38.45
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	6.94	3.46	-2.95	7.45	38.45
			H	13.37	3.46	-2.95	13.88	38.45
	836.5	20525	V	6.40	3.46	-2.98	6.88	38.45
			H	13.04	3.46	-2.98	13.53	38.45
	846.5	20625	V	6.21	3.47	-3.00	6.68	38.45
			H	13.26	3.47	-3.00	13.73	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	6.96	3.46	-2.94	7.47	38.45
			H	13.30	3.46	-2.94	13.81	38.45
	836.5	20525	V	8.37	3.46	-2.96	8.86	38.45
			H	14.77	3.46	-2.96	15.27	38.45
	846.5	20625	V	7.53	3.46	-2.99	8.00	38.45
			H	14.83	3.46	-2.99	15.31	38.45
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	7.91	3.46	-2.95	8.42	38.45
			H	14.39	3.46	-2.95	14.90	38.45
	836.5	20525	V	7.56	3.46	-2.98	8.05	38.45
			H	14.24	3.46	-2.98	14.72	38.45
	846.5	20625	V	6.45	3.47	-3.00	6.91	38.45
			H	14.03	3.47	-3.00	14.50	38.45

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	9.49	3.46	-2.94	10.00	38.45
			H	12.18	3.46	-2.94	12.70	38.45
	836.5	20525	V	11.24	3.46	-2.96	11.74	38.45
			H	13.31	3.46	-2.96	13.81	38.45
	844.0	20600	V	11.12	3.46	-2.98	11.60	38.45
			H	13.07	3.46	-2.98	13.56	38.45
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	11.49	3.46	-2.96	11.98	38.45
			H	13.47	3.46	-2.96	13.97	38.45
	836.5	20525	V	10.91	3.46	-2.98	11.39	38.45
			H	12.64	3.46	-2.98	13.12	38.45
	844.0	20600	V	11.20	3.47	-3.00	11.66	38.45
			H	13.25	3.47	-3.00	13.72	38.45
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	10.50	3.46	-2.94	11.01	38.45
			H	13.32	3.46	-2.94	13.83	38.45
	836.5	20525	V	12.70	3.46	-2.96	13.20	38.45
			H	14.77	3.46	-2.96	15.27	38.45
	844.0	20600	V	11.94	3.46	-2.98	12.43	38.45
			H	13.87	3.46	-2.99	14.34	38.45
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	12.61	3.46	-2.96	13.10	38.45
			H	14.57	3.46	-2.96	15.07	38.45
	836.5	20525	V	11.61	3.46	-2.98	12.09	38.45
			H	13.71	3.46	-2.98	14.19	38.45
	844.0	20600	V	12.16	3.47	-3.00	12.62	38.45
			H	14.00	3.47	-3.00	14.46	38.45

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	17.35	5.80	-5.34	17.81	33.01
			H	18.93	5.80	-5.34	19.39	33.01
	2535.0	21100	V	15.26	5.87	-5.38	15.74	33.01
			H	20.05	5.87	-5.38	20.53	33.01
	2567.5	21425	V	8.00	5.94	-5.43	8.51	33.01
			H	16.15	5.94	-5.43	16.65	33.01
BAND 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	18.49	5.81	-5.34	18.96	33.01
			H	19.59	5.81	-5.34	20.05	33.01
	2535.0	21100	V	19.28	5.88	-5.39	19.77	33.01
			H	20.14	5.88	-5.39	20.63	33.01
	2567.5	21425	V	16.20	5.95	-5.44	16.70	33.01
			H	15.79	5.95	-5.44	16.29	33.01
BAND 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	18.05	5.81	-5.34	18.51	33.01
			H	19.71	5.80	-5.34	20.17	33.01
	2535.0	21100	V	19.74	5.87	-5.38	20.22	33.01
			H	20.48	5.87	-5.38	20.96	33.01
	2567.5	21425	V	16.15	5.94	-5.43	16.65	33.01
			H	16.55	5.94	-5.43	17.05	33.01
BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	18.36	5.81	-5.34	18.82	33.01
			H	19.82	5.81	-5.34	20.28	33.01
	2535.0	21100	V	19.49	5.88	-5.39	19.98	33.01
			H	20.40	5.88	-5.39	20.89	33.01
	2567.5	21425	V	16.24	5.95	-5.44	16.75	33.01
			H	16.06	5.95	-5.44	16.57	33.01

Remark :

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 7 BW: 10M QPSK RB: 1,0	2505.0	20800	V	18.31	5.80	-5.34	18.77	33.01
			H	19.29	5.81	-5.34	19.75	33.01
	2535.0	21100	V	19.20	5.86	-5.38	19.68	33.01
			H	19.17	5.86	-5.38	19.65	33.01
	2565.0	21400	V	16.31	5.93	-5.43	16.81	33.01
			H	16.11	5.93	-5.43	16.61	33.01
BAND 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	18.77	5.82	-5.35	19.24	33.01
			H	19.49	5.82	-5.35	19.96	33.01
	2535.0	21100	V	19.20	5.88	-5.39	19.69	33.01
			H	19.45	5.88	-5.39	19.93	33.01
	2565.0	21400	V	16.00	5.95	-5.44	16.51	33.01
			H	15.70	5.95	-5.44	16.20	33.01
BAND 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	18.48	5.81	-5.34	18.95	33.01
			H	19.49	5.80	-5.34	19.96	33.01
	2535.0	21100	V	19.54	5.86	-5.38	20.02	33.01
			H	19.31	5.87	-5.38	19.80	33.01
	2565.0	21400	V	16.65	5.93	-5.43	17.15	33.01
			H	16.24	5.93	-5.43	16.74	33.01
BAND 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	18.73	5.82	-5.35	19.20	33.01
			H	19.62	5.82	-5.35	20.09	33.01
	2535.0	21100	V	19.43	5.88	-5.39	19.92	33.01
			H	19.65	5.88	-5.39	20.14	33.01
	2565.0	21400	V	16.20	5.95	-5.44	16.70	33.01
			H	15.97	5.95	-5.44	16.47	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 7 BW: 15M QPSK RB: 1,0	2507.5	20825	V	18.20	5.81	-5.34	18.66	33.01
			H	20.34	5.81	-5.34	20.80	33.01
	2535.0	21100	V	18.64	5.86	-5.38	19.12	33.01
			H	20.08	5.87	-5.38	20.57	33.01
	2562.5	21375	V	16.74	5.92	-5.42	17.24	33.01
			H	17.81	5.92	-5.42	18.31	33.01
BAND 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	17.96	5.83	-5.35	18.43	33.01
			H	20.34	5.83	-5.35	20.81	33.01
	2535.0	21100	V	19.29	5.89	-5.40	19.78	33.01
			H	20.88	5.89	-5.40	21.37	33.01
	2562.5	21375	V	14.81	5.95	-5.44	15.32	33.01
			H	17.64	5.95	-5.44	18.14	33.01
BAND 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	17.74	5.81	-5.34	18.20	33.01
			H	20.32	5.81	-5.34	20.78	33.01
	2535.0	21100	V	19.40	5.87	-5.38	19.88	33.01
			H	20.49	5.87	-5.38	20.98	33.01
	2562.5	21375	V	16.81	5.93	-5.43	17.31	33.01
			H	18.45	5.92	-5.42	18.95	33.01
BAND 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	18.42	5.83	-5.35	18.89	33.01
			H	20.42	5.83	-5.35	20.90	33.01
	2535.0	21100	V	19.61	5.89	-5.40	20.10	33.01
			H	21.08	5.89	-5.40	21.57	33.01
	2562.5	21375	V	15.04	5.95	-5.44	15.55	33.01
			H	17.87	5.95	-5.44	18.37	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 7 BW: 20M QPSK RB: 1,0	2510.0	20850	V	14.38	5.81	-5.34	14.84	33.01
			H	20.26	5.81	-5.34	20.72	33.01
	2535.0	21100	V	13.34	5.85	-5.37	13.82	33.01
			H	20.02	5.85	-5.37	20.50	33.01
	2560.0	21350	V	16.66	5.91	-5.41	17.15	33.01
			H	19.17	5.91	-5.41	19.66	33.01
BAND 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	16.83	5.84	-5.36	17.31	33.01
			H	19.84	5.84	-5.36	20.31	33.01
	2535.0	21100	V	17.78	5.89	-5.40	18.27	33.01
			H	20.74	5.89	-5.40	21.23	33.01
	2560.0	21350	V	14.56	5.95	-5.44	15.07	33.01
			H	17.61	5.95	-5.44	18.11	33.01
BAND 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	15.96	5.81	-5.34	16.42	33.01
			H	20.51	5.81	-5.34	20.97	33.01
	2535.0	21100	V	18.25	5.85	-5.37	18.73	33.01
			H	20.54	5.85	-5.37	21.02	33.01
	2560.0	21350	V	17.00	5.91	-5.41	17.50	33.01
			H	19.69	5.91	-5.41	20.19	33.01
BAND 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	17.36	5.84	-5.36	17.84	33.01
			H	20.16	5.84	-5.36	20.63	33.01
	2535.0	21100	V	18.07	5.89	-5.40	18.56	33.01
			H	20.92	5.89	-5.40	21.41	33.01
	2560.0	21350	V	15.07	5.94	-5.44	15.58	33.01
			H	17.79	5.95	-5.44	18.30	33.01

Remark :

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 12 BW: 1.4M QPSK RB: 1,0	699.7	23017	V	4.72	3.38	-2.61	5.49	34.77
			H	12.05	3.38	-2.61	12.82	34.77
	707.5	23095	V	5.43	3.37	-2.60	6.20	34.77
			H	13.17	3.37	-2.60	13.93	34.77
	715.3	23173	V	5.17	3.36	-2.61	5.92	34.77
			H	12.54	3.35	-2.61	13.28	34.77
BAND 12 BW: 1.4M QPSK RB: 1,5	699.7	23017	V	4.80	3.39	-2.61	5.58	34.77
			H	11.99	3.38	-2.61	12.77	34.77
	707.5	23095	V	5.12	3.37	-2.60	5.88	34.77
			H	12.48	3.37	-2.60	13.24	34.77
	715.3	23173	V	6.16	3.35	-2.61	6.91	34.77
			H	12.91	3.35	-2.61	13.65	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,0	699.7	23017	V	6.20	3.38	-2.61	6.97	34.77
			H	14.44	3.38	-2.61	15.21	34.77
	707.5	23095	V	6.89	3.37	-2.60	7.66	34.77
			H	14.90	3.37	-2.60	15.67	34.77
	715.3	23173	V	7.41	3.35	-2.61	8.15	34.77
			H	14.57	3.35	-2.61	15.31	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,5	699.7	23017	V	5.85	3.39	-2.61	6.63	34.77
			H	14.00	3.39	-2.61	14.77	34.77
	707.5	23095	V	6.88	3.37	-2.60	7.64	34.77
			H	14.62	3.37	-2.60	15.39	34.77
	715.3	23173	V	7.71	3.35	-2.61	8.46	34.77
			H	14.76	3.35	-2.61	15.50	34.77

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 12 BW: 3M QPSK RB: 1,0	700.5	23025	V	4.73	3.38	-2.61	5.50	34.77
			H	12.31	3.38	-2.61	13.08	34.77
	707.5	23095	V	5.26	3.37	-2.60	6.02	34.77
			H	12.54	3.37	-2.60	13.31	34.77
	714.5	23165	V	4.55	3.36	-2.60	5.30	34.77
			H	12.42	3.36	-2.60	13.18	34.77
BAND 12 BW: 3M QPSK RB: 1,14	700.5	23025	V	4.53	3.38	-2.61	5.31	34.77
			H	11.78	3.38	-2.61	12.56	34.77
	707.5	23095	V	5.37	3.37	-2.60	6.13	34.77
			H	12.94	3.37	-2.60	13.71	34.77
	714.5	23165	V	6.35	3.35	-2.61	7.09	34.77
			H	13.31	3.35	-2.61	14.06	34.77
BAND 12 BW: 3M 16QAM RB: 1,0	700.5	23025	V	6.43	3.38	-2.61	7.20	34.77
			H	14.12	3.38	-2.61	14.89	34.77
	707.5	23095	V	7.26	3.37	-2.60	8.03	34.77
			H	14.82	3.37	-2.60	15.58	34.77
	714.5	23165	V	6.97	3.36	-2.60	7.73	34.77
			H	14.12	3.36	-2.60	14.87	34.77
BAND 12 BW: 3M 16QAM RB: 1,14	700.5	23025	V	6.19	3.38	-2.61	6.97	34.77
			H	13.94	3.38	-2.61	14.72	34.77
	707.5	23095	V	7.06	3.37	-2.60	7.83	34.77
			H	14.59	3.37	-2.60	15.35	34.77
	714.5	23165	V	8.09	3.35	-2.61	8.84	34.77
			H	14.89	3.35	-2.61	15.63	34.77

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 12 BW: 5M QPSK RB: 1,0	701.5	23035	V	5.26	3.39	-2.61	6.04	34.77
			H	12.30	3.38	-2.61	13.07	34.77
	707.5	23095	V	4.60	3.37	-2.60	5.37	34.77
			H	11.95	3.37	-2.60	12.72	34.77
	713.5	23155	V	4.76	3.36	-2.60	5.53	34.77
			H	12.09	3.36	-2.60	12.86	34.77
BAND 12 BW: 5M QPSK RB: 1,24	701.5	23035	V	4.71	3.38	-2.61	5.48	34.77
			H	11.76	3.38	-2.61	12.53	34.77
	707.5	23095	V	5.10	3.37	-2.60	5.86	34.77
			H	12.83	3.36	-2.60	13.59	34.77
	713.5	23155	V	5.78	3.35	-2.61	6.52	34.77
			H	13.02	3.35	-2.61	13.77	34.77
BAND 12 BW: 5M 16QAM RB: 1,0	701.5	23035	V	6.32	3.38	-2.61	7.09	34.77
			H	13.90	3.38	-2.61	14.67	34.77
	707.5	23095	V	6.64	3.37	-2.60	7.41	34.77
			H	14.46	3.37	-2.60	15.23	34.77
	713.5	23155	V	6.85	3.36	-2.60	7.61	34.77
			H	14.41	3.36	-2.60	15.17	34.77
BAND 12 BW: 5M 16QAM RB: 1,24	701.5	23035	V	6.72	3.38	-2.61	7.50	34.77
			H	14.19	3.38	-2.61	14.96	34.77
	707.5	23095	V	6.71	3.37	-2.60	7.48	34.77
			H	14.23	3.37	-2.60	14.99	34.77
	713.5	23155	V	7.77	3.35	-2.61	8.51	34.77
			H	14.61	3.35	-2.61	15.35	34.77

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 12 BW: 10M QPSK RB: 1,0	704.0	23060	V	4.60	3.38	-2.61	5.37	34.77
			H	12.24	3.38	-2.61	13.01	34.77
	707.5	23095	V	4.87	3.38	-2.61	5.64	34.77
			H	12.34	3.37	-2.60	13.10	34.77
	711.0	23130	V	5.48	3.37	-2.60	6.25	34.77
			H	11.90	3.37	-2.60	12.67	34.77
BAND 12 BW: 10M QPSK RB: 1,49	704.0	23060	V	5.58	3.37	-2.60	6.34	34.77
			H	12.88	3.37	-2.60	13.64	34.77
	707.5	23095	V	4.30	3.36	-2.60	5.06	34.77
			H	11.89	3.36	-2.60	12.65	34.77
	711.0	23130	V	5.03	3.35	-2.61	5.77	34.77
			H	12.67	3.35	-2.61	13.41	34.77
BAND 12 BW: 10M 16QAM RB: 1,0	704.0	23060	V	6.62	3.38	-2.61	7.39	34.77
			H	14.31	3.38	-2.61	15.08	34.77
	707.5	23095	V	5.78	3.37	-2.60	6.55	34.77
			H	13.94	3.37	-2.60	14.70	34.77
	711.0	23130	V	6.79	3.37	-2.60	7.56	34.77
			H	14.34	3.37	-2.60	15.11	34.77
BAND 12 BW: 10M 16QAM RB: 1,49	704.0	23060	V	7.03	3.37	-2.60	7.80	34.77
			H	14.35	3.37	-2.60	15.11	34.77
	707.5	23095	V	6.78	3.36	-2.60	7.54	34.77
			H	14.32	3.36	-2.60	15.08	34.77
	711.0	23130	V	6.86	3.35	-2.61	7.60	34.77
			H	14.37	3.35	-2.61	15.11	34.77

Remark :

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	5.26	3.37	-2.77	5.86	34.77
			H	10.63	3.38	-2.78	11.23	34.77
	782.0	23230	V	5.88	3.37	-2.77	6.48	34.77
			H	11.31	3.37	-2.77	11.91	34.77
	784.5	23255	V	4.91	3.38	-2.78	5.51	34.77
			H	10.60	3.38	-2.78	11.20	34.77
BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	5.38	3.38	-2.78	5.98	34.77
			H	10.94	3.38	-2.78	11.54	34.77
	782.0	23230	V	4.76	3.39	-2.79	5.36	34.77
			H	10.55	3.39	-2.79	11.15	34.77
	784.5	23255	V	4.80	3.39	-2.80	5.40	34.77
			H	10.91	3.39	-2.80	11.51	34.77
BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	6.66	3.37	-2.77	7.26	34.77
			H	12.15	3.38	-2.78	12.75	34.77
	782.0	23230	V	7.08	3.37	-2.77	7.68	34.77
			H	12.38	3.37	-2.77	12.98	34.77
	784.5	23255	V	6.92	3.38	-2.78	7.52	34.77
			H	12.42	3.38	-2.78	13.02	34.77
BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	7.10	3.38	-2.78	7.70	34.77
			H	12.36	3.38	-2.78	12.96	34.77
	782.0	23230	V	6.79	3.39	-2.79	7.39	34.77
			H	12.56	3.39	-2.79	13.15	34.77
	784.5	23255	V	5.86	3.39	-2.80	6.45	34.77
			H	12.14	3.39	-2.80	12.73	34.77

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 13 BW: 10M QPSK RB: 1,0	782.0	23230	V	5.53	3.37	-2.77	6.13	34.77
			H	10.94	3.38	-2.78	11.54	34.77
BAND 13 BW: 10M QPSK RB: 1,49	782.0	23230	V	4.46	3.39	-2.80	5.05	34.77
			H	10.60	3.39	-2.80	11.19	34.77
BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	6.56	3.37	-2.77	7.16	34.77
			H	11.90	3.38	-2.78	12.50	34.77
BAND 13 BW: 10M 16QAM RB: 1,49	782.0	23230	V	6.64	3.39	-2.80	7.23	34.77
			H	12.21	3.39	-2.80	12.80	34.77

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	6.70	3.37	-2.60	7.47	34.77
			H	11.17	3.37	-2.60	11.94	34.77
	710.0	23790	V	6.15	3.36	-2.60	6.91	34.77
			H	11.78	3.37	-2.60	12.54	34.77
	713.5	23825	V	6.91	3.36	-2.60	7.67	34.77
			H	12.20	3.36	-2.60	12.96	34.77
BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	7.18	3.37	-2.60	7.94	34.77
			H	12.40	3.37	-2.60	13.16	34.77
	710.0	23790	V	6.34	3.36	-2.60	7.10	34.77
			H	11.55	3.36	-2.60	12.31	34.77
	713.5	23825	V	7.43	3.35	-2.61	8.17	34.77
			H	12.84	3.35	-2.61	13.59	34.77
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	8.91	3.37	-2.60	9.67	34.77
			H	13.32	3.37	-2.60	14.09	34.77
	710.0	23790	V	9.08	3.37	-2.60	9.84	34.77
			H	13.50	3.37	-2.60	14.27	34.77
	713.5	23825	V	9.15	3.36	-2.60	9.91	34.77
			H	14.00	3.36	-2.60	14.76	34.77
BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	9.53	3.37	-2.60	10.29	34.77
			H	14.25	3.37	-2.60	15.02	34.77
	710.0	23790	V	8.81	3.36	-2.60	9.57	34.77
			H	14.11	3.36	-2.60	14.87	34.77
	713.5	23825	V	9.23	3.35	-2.61	9.98	34.77
			H	14.88	3.35	-2.61	15.63	34.77

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	6.99	3.37	-2.60	7.76	34.77
			H	11.55	3.37	-2.60	12.31	34.77
	710.0	23790	V	6.44	3.37	-2.60	7.21	34.77
			H	11.83	3.37	-2.60	12.60	34.77
	711.0	23800	V	7.31	3.37	-2.60	8.07	34.77
			H	11.89	3.37	-2.60	12.66	34.77
BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	7.05	3.36	-2.60	7.80	34.77
			H	12.57	3.36	-2.60	13.32	34.77
	710.0	23790	V	6.34	3.36	-2.61	7.09	34.77
			H	11.93	3.36	-2.61	12.68	34.77
	711.0	23800	V	6.63	3.35	-2.61	7.38	34.77
			H	12.33	3.35	-2.61	13.08	34.77
BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	9.06	3.37	-2.60	9.83	34.77
			H	13.40	3.37	-2.60	14.17	34.77
	710.0	23790	V	8.72	3.37	-2.60	9.49	34.77
			H	13.13	3.37	-2.60	13.90	34.77
	711.0	23800	V	9.28	3.37	-2.60	10.05	34.77
			H	13.98	3.37	-2.60	14.75	34.77
BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	8.75	3.36	-2.60	9.51	34.77
			H	13.93	3.36	-2.60	14.69	34.77
	710.0	23790	V	8.63	3.36	-2.61	9.38	34.77
			H	14.04	3.36	-2.61	14.79	34.77
	711.0	23800	V	9.19	3.35	-2.61	9.94	34.77
			H	14.64	3.35	-2.61	15.38	34.77

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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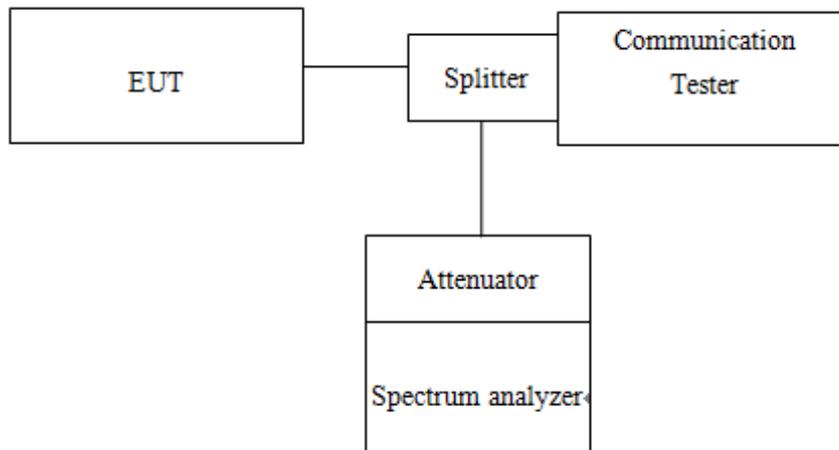
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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

8.2. Test Set-up



8.3. Measurement Procedure

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

NOTE: For the plot of bandwidth measurement, the marker of the 99% bandwidth is diamond-shape while the marker of the 26dB BW is arrow-mark

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8.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
Spectrum Analyzer	Agilent	E4440A	MY45304525	05/05/2015	05/04/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	2015/9/25	2016/9/24
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	KR93300208	2015/8/14	2016/8/13

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8.5. Measurement Result

99% Bandwidth

Frequency (MHz)	CH	99% Bandwidth (kHz)	
		GPRS 850	EDGE 850
824.20	128	242.6533	243.7387
836.60	190	246.0100	251.0861
848.80	251	242.1922	246.1157

Frequency (MHz)	CH	99% Bandwidth (kHz)	
		GPRS 1900	EDGE 1900
1850.20	512	239.1248	250.8490
1880.00	661	246.5480	242.2978
1909.80	810	238.2245	242.3679

Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.1714	4.1356	4.1725
1880.00	9400	4.1430	4.1408	4.1521
1907.60	9538	4.1475	4.1254	4.1465

Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	4.1576	4.1818	4.1534
1732.6	1413	4.1471	4.1435	4.1464
1752.6	1513	4.1535	4.1630	4.1343

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Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.1415	4.1675	4.1542
836.60	4183	4.1398	4.1595	4.1382
846.60	4233	4.1573	4.1526	4.1581

Frequency (MHz)	CH	99% Bandwidth (MHz)	
		CDMA BC0	EVDO BC0
824.7	1013	1.2692	1.2679
836.52	384	1.2688	1.2689
848.31	777	1.2721	1.2750

Frequency (MHz)	CH	99% Bandwidth (MHz)	
		CDMA BC1	EVDO BC1
1851.25	25	1.2690	1.2662
1880.00	600	1.2674	1.2654
1908.75	1175	1.2760	1.2812

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1850.7	18607	1.0944	1.0970	1851.5	18615	2.7015	2.7061
1880.0	18900	1.0937	1.0988	1880.0	18900	2.6985	2.7003
1909.3	19193	1.0973	1.0997	1908.5	19185	2.7044	2.7107

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1852.5	18625	4.4956	4.5083	1855.0	18650	8.9927	8.9363
1880.0	18900	4.5022	4.5138	1880.0	18900	9.0145	8.9576
1907.5	19175	4.4922	4.4980	1905.0	19150	8.9701	8.9615

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1857.5	18675	13.4011	13.4211	1860.0	18700	17.8585	17.8242
1880.0	18900	13.4302	13.4696	1880.0	18900	17.8590	17.8674
1902.5	19125	13.4406	13.4635	1900.0	19100	17.9311	17.9316

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1710.7	19957	1.0983	1.1057	1711.5	19965	2.6978	2.7081
1732.5	20175	1.1035	1.0958	1732.5	20175	2.6977	2.7140
1754.3	20393	1.0992	1.0975	1753.5	20385	2.7004	2.6913

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1712.5	19957	4.4976	4.5038	1715.0	20000	8.9737	8.9578
1732.5	20175	4.4992	4.4980	1732.5	20175	9.0060	8.9316
1752.5	20375	4.5073	4.4841	1750.0	20350	8.9765	8.9479

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1717.5	20025	13.4268	13.4478	1720.0	20050	17.8660	17.9158
1732.5	20175	13.4003	13.4023	1732.5	20175	17.8235	17.8081
1747.5	20325	13.4181	13.4347	1745.0	20300	17.8721	17.8608

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
824.7	20407	1.1009	1.1017	825.5	20415	2.6962	2.7088
836.5	20525	1.0954	1.0950	836.5	20525	2.6961	2.7117
848.3	20643	1.1012	1.0999	847.5	20635	2.7026	2.7105

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
826.5	20425	4.4936	4.5002	829.0	20450	8.9922	8.9939
836.5	20525	4.4954	4.4789	836.5	20525	8.9958	8.9899
846.5	20625	4.4886	4.4939	844.0	20600	8.9437	8.9466

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
2502.5	20775	4.4944	4.4970	2505.0	20800	8.9559	8.9653
2535.0	21100	4.4939	4.4871	2535.0	21100	8.9949	8.9581
2567.5	21425	4.5050	4.4910	2565.0	21400	8.9644	8.9706

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
2507.5	20825	13.4301	13.4241	2510.0	20850	17.8573	17.8878
2535.0	21100	13.4433	13.4441	2535.0	21100	17.8546	17.8832
2562.5	21375	13.4296	13.4242	2560.0	21350	17.8566	17.8676

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
699.7	23017	1.1011	1.1029	700.5	23025	2.7115	2.7180
707.5	23095	1.0971	1.0952	707.5	23095	2.7070	2.7218
715.3	23173	1.0973	1.1018	714.5	23165	2.7129	2.7109

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
701.5	23035	4.4989	4.5094	704.0	23060	9.0633	9.0350
707.5	23095	4.5028	4.5102	707.5	23095	8.9632	8.9896
713.5	23155	4.5029	4.5182	711.0	23130	8.9731	8.9385

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
779.5	23205	4.5882	4.5370	23230	782	8.9385	8.9576
782.0	23230	4.5158	4.5020				
784.5	23255	4.5053	4.4958				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
706.5	23755	4.5013	4.5039	709	23780	8.9364	8.9377
710.0	23790	4.4895	4.4815	710	23790	8.9172	8.9387
713.5	23825	4.5068	4.5178	711	23800	8.9243	8.9343

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26dB Bandwidth

Frequency (MHz)	CH	26dB Bandwidth (kHz)	
		GPRS 850	EDGE 850
824.20	128	315.859	310.296
836.60	190	316.541	322.992
848.80	251	313.406	315.018

Frequency (MHz)	CH	26dB Bandwidth (kHz)	
		GPRS 1900	EDGE 1900
1850.20	512	316.629	315.213
1880.00	661	314.085	304.309
1909.80	810	318.687	306.467

Frequency (MHz)	CH	26dB Bandwidth (MHz)		
		WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.658	4.622	4.645
1880.00	9400	4.640	4.624	4.620
1907.60	9538	4.653	4.624	4.621

Frequency (MHz)	CH	26dB Bandwidth (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	4.649	4.617	4.637
1732.6	1413	4.649	4.635	4.625
1752.6	1513	4.632	4.635	4.630

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Frequency (MHz)	CH	26dB Bandwidth (MHz)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.633	4.631	4.630
836.60	4183	4.645	4.634	4.622
846.60	4233	4.637	4.625	4.623

Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		CDMA BC0	EVDO BC0
824.7	1013	1.416	1.413
836.52	384	1.410	1.412
848.31	777	1.422	1.418

Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		CDMA BC1	EVDO BC1
1851.25	25	1.430	1.418
1880.00	600	1.417	1.422
1908.75	1175	1.436	1.431

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1850.7	18607	1.278	1.297	1851.5	18615	2.984	2.997
1880.0	18900	1.285	1.297	1880.0	18900	2.986	3.004
1909.3	19193	1.276	1.268	1908.5	19185	2.974	2.969

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1852.5	18625	4.997	4.968	1855.0	18650	9.811	9.741
1880.0	18900	4.989	5.021	1880.0	18900	9.852	9.747
1907.5	19175	5.008	4.963	1905.0	19150	9.743	9.679

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1857.5	18675	14.724	14.571	1860.0	18700	19.430	19.178
1880.0	18900	14.509	14.596	1880.0	18900	19.276	19.164
1902.5	19125	14.381	14.561	1900.0	19100	19.159	19.507

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1710.7	19957	1.291	1.295	1711.5	19965	2.987	2.993
1732.5	20175	1.272	1.273	1732.5	20175	2.960	2.997
1754.3	20393	1.262	1.300	1753.5	20385	2.989	3.003

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1712.5	19957	4.999	4.941	1715.0	20000	9.708	9.706
1732.5	20175	4.955	4.975	1732.5	20175	9.725	9.786
1752.5	20375	4.963	4.920	1750.0	20350	9.801	9.826

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1717.5	20025	14.523	14.837	1720.0	20050	19.419	19.278
1732.5	20175	14.537	14.631	1732.5	20175	19.205	19.203
1747.5	20325	14.620	14.637	1745.0	20300	19.265	19.242

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
824.7	20407	1.277	1.299	825.5	20415	2.962	2.993
836.5	20525	1.286	1.302	836.5	20525	2.982	2.977
848.3	20643	1.280	1.303	847.5	20635	2.985	2.983

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
826.5	20425	5.026	5.005	829.0	20450	9.785	9.694
836.5	20525	4.982	4.913	836.5	20525	9.827	9.846
846.5	20625	4.899	4.956	844.0	20600	9.704	9.734

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
2502.5	20775	4.995	5.020	2505.0	20800	9.761	9.881
2535.0	21100	4.952	4.916	2535.0	21100	9.844	9.713
2567.5	21425	4.969	4.963	2565.0	21400	9.774	9.792

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
2507.5	20825	14.492	14.654	2510.0	20850	19.274	19.132
2535.0	21100	14.657	14.656	2535.0	21100	19.224	19.108
2562.5	21375	14.532	14.701	2560.0	21350	19.395	19.012

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
699.7	23017	1.284	1.297	700.5	23025	2.982	2.981
707.5	23095	1.284	1.257	707.5	23095	2.980	2.985
715.3	23173	1.287	1.274	714.5	23165	3.016	2.993

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
701.5	23035	5.000	4.961	704.0	23060	9.876	9.821
707.5	23095	4.954	4.955	707.5	23095	9.745	9.819
713.5	23155	4.929	4.913	711.0	23130	9.743	9.728

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
779.5	23205	7.701	6.800	23230	782	9.772	9.832
782.0	23230	5.855	5.006				
784.5	23255	5.002	4.957				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)		Frequency (MHz)	CH	26dB Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
706.5	23755	4.973	5.014	709	23780	9.774	9.717
710.0	23790	4.977	4.976	710	23790	9.744	9.669
713.5	23825	5.027	4.937	711	23800	9.754	9.719

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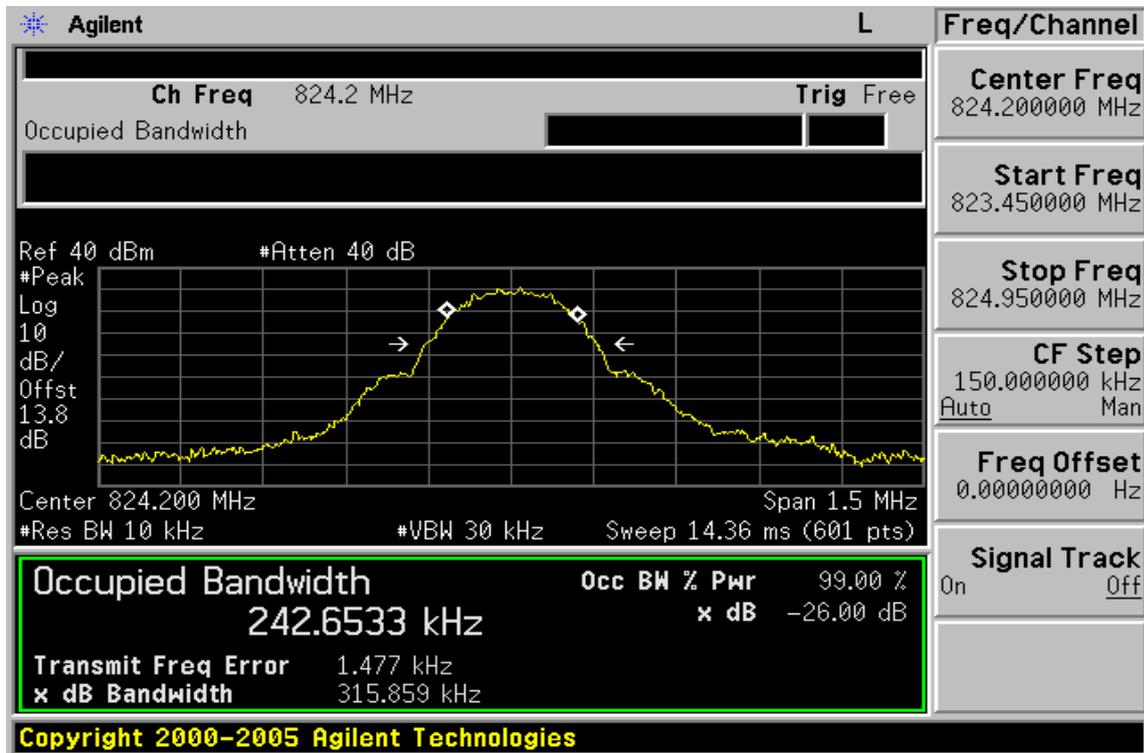
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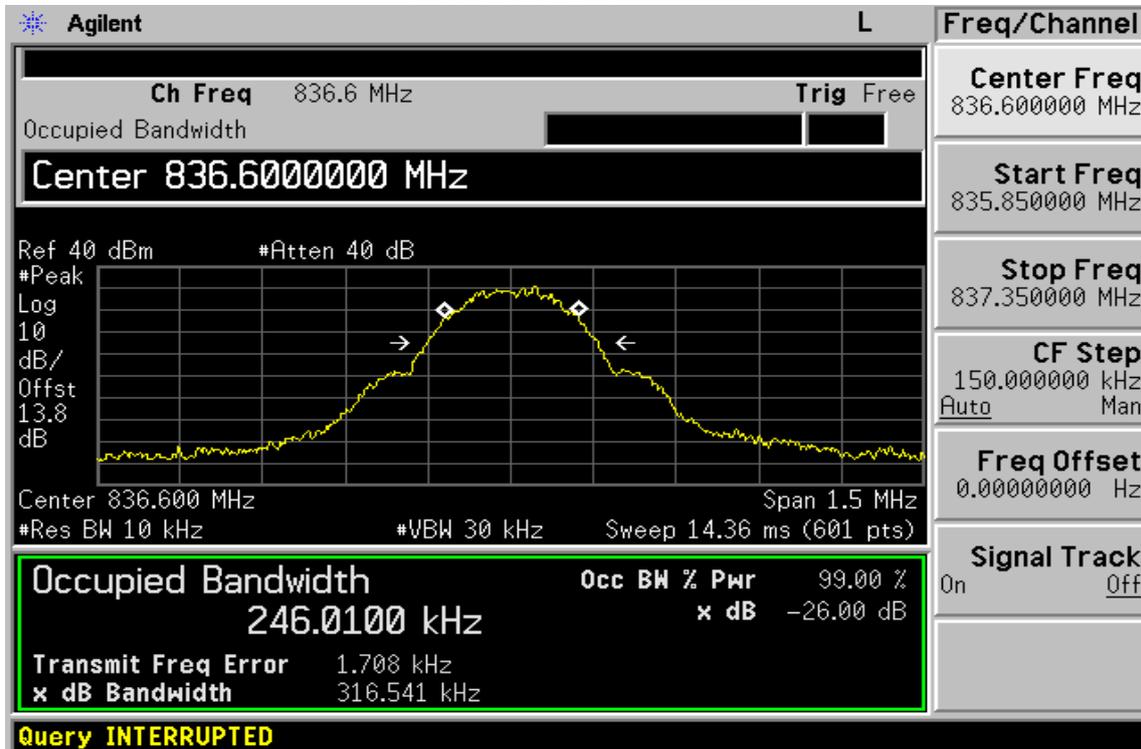
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99% Bandwidth Test Data

GPRS 850 Channel Low



GPRS 850 Channel Mid



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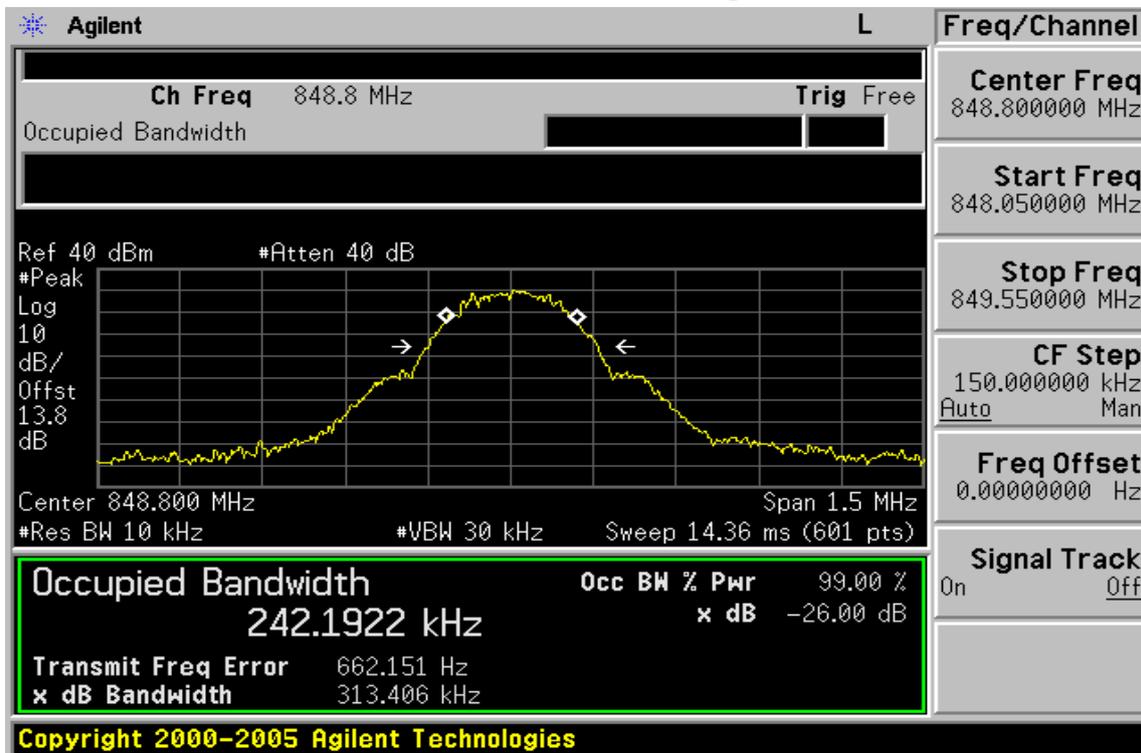
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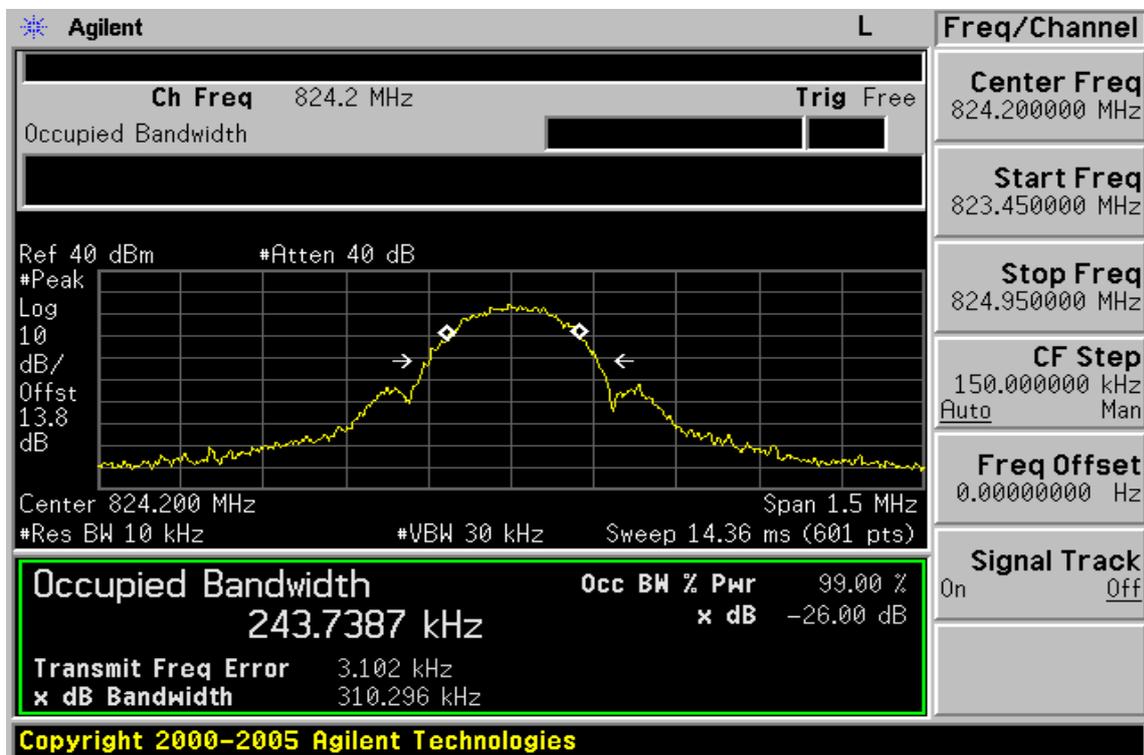
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GPRS 850 Channel High



EDGE 850 Channel Low



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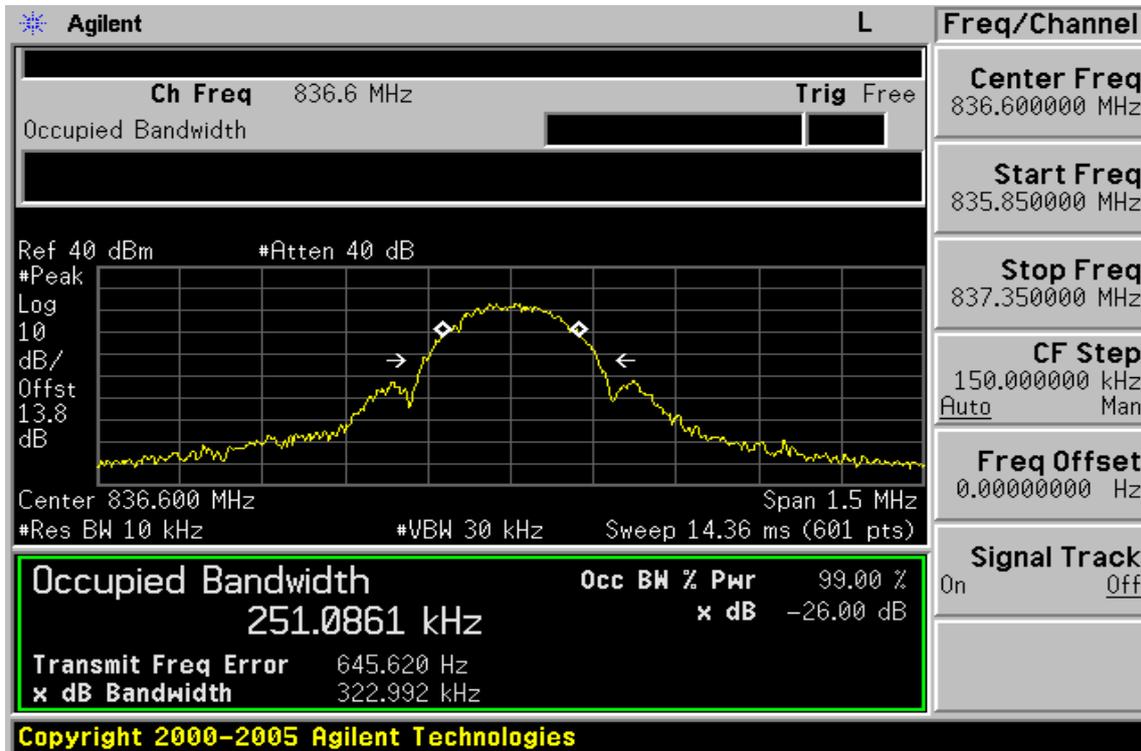
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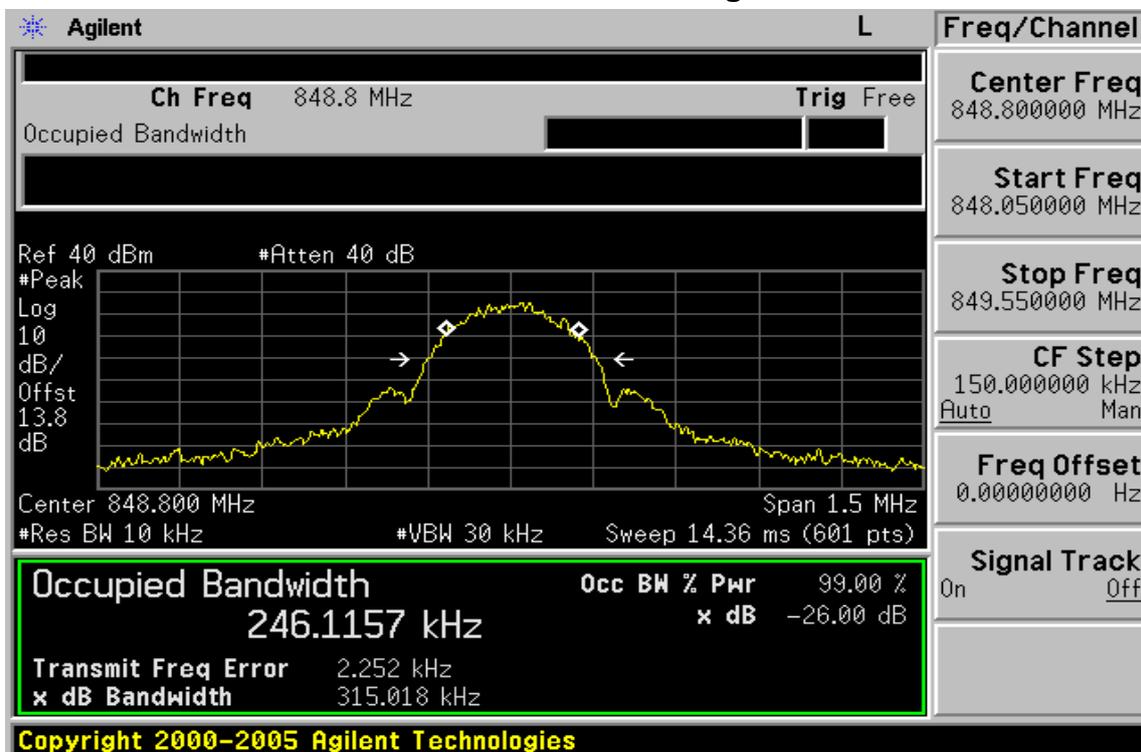
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EDGE 850 Channel Mid



EDGE 850 Channel High



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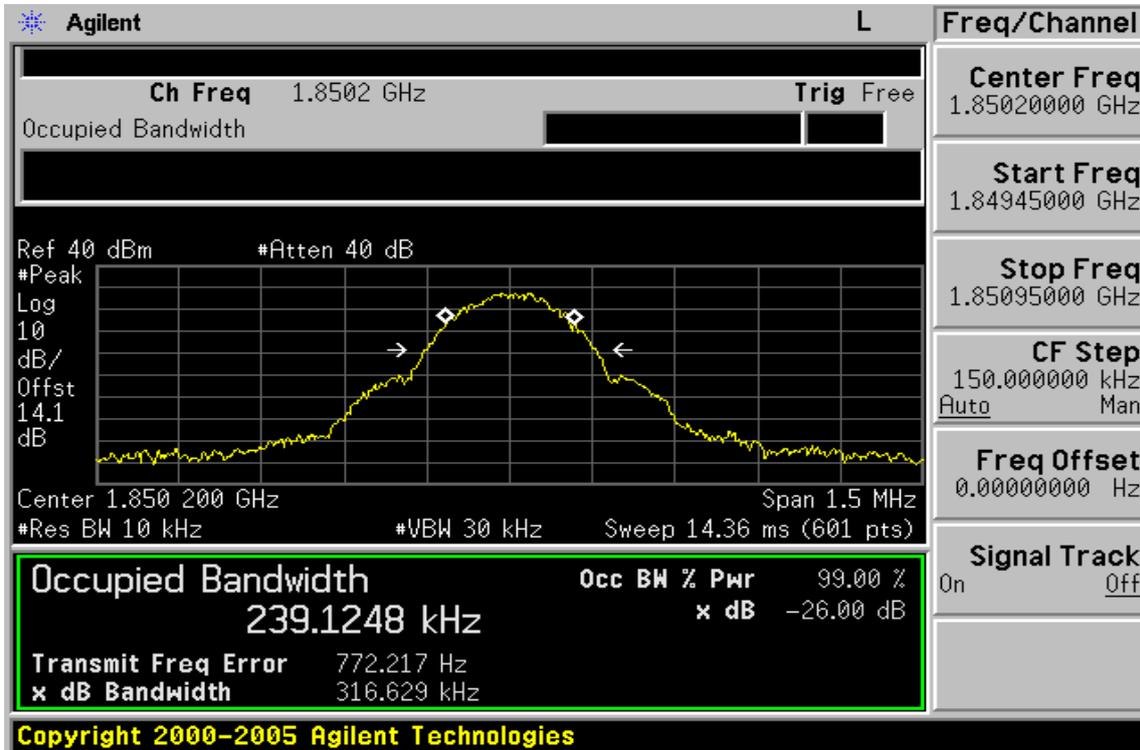
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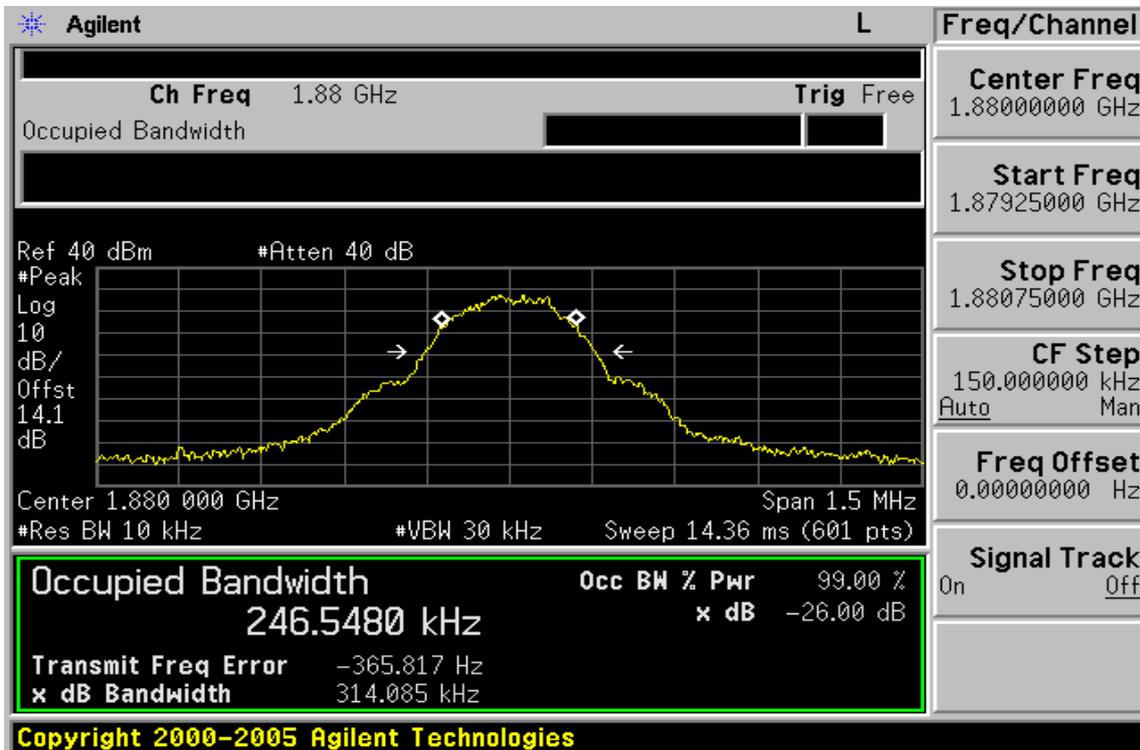
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GPRS 1900 Channel Low



GPRS 1900 Channel Mid



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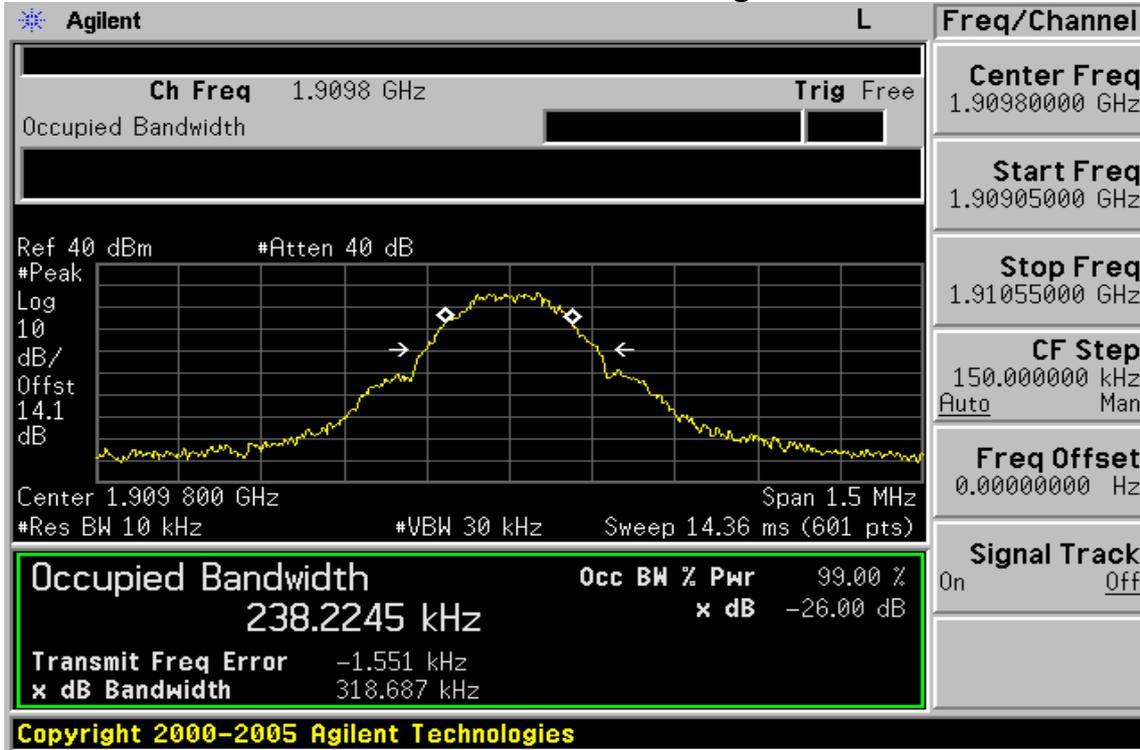
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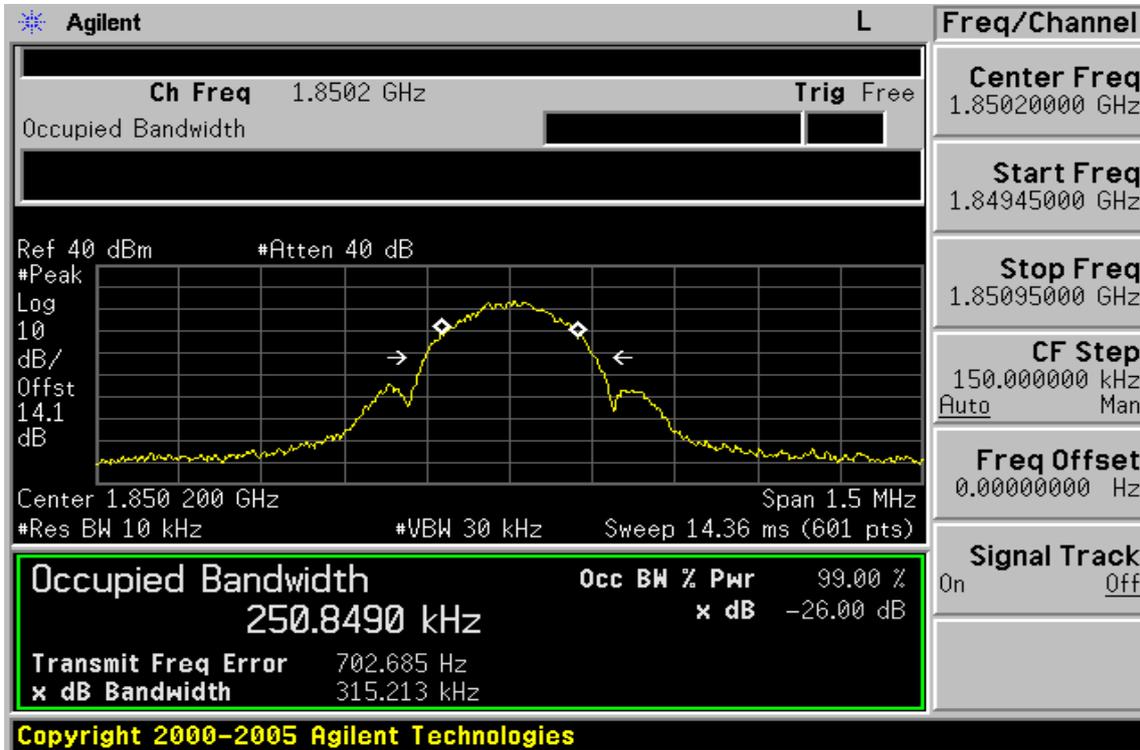
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GPRS 1900 Channel High



EDGE 1900 Channel Low



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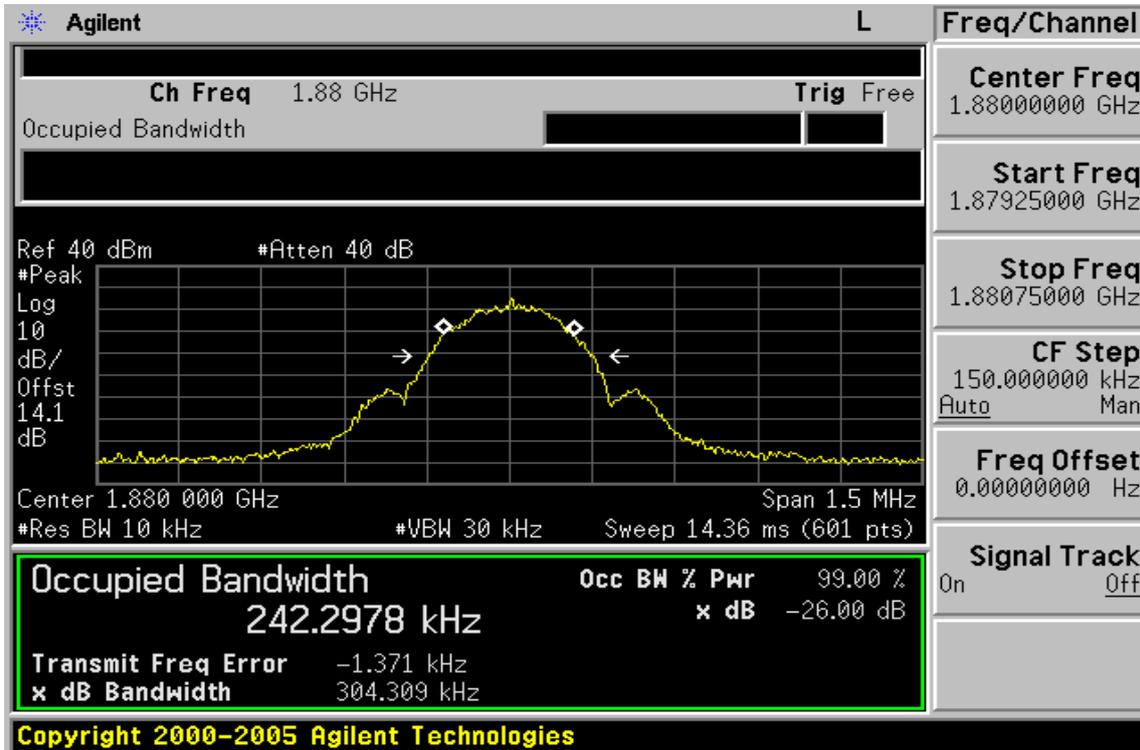
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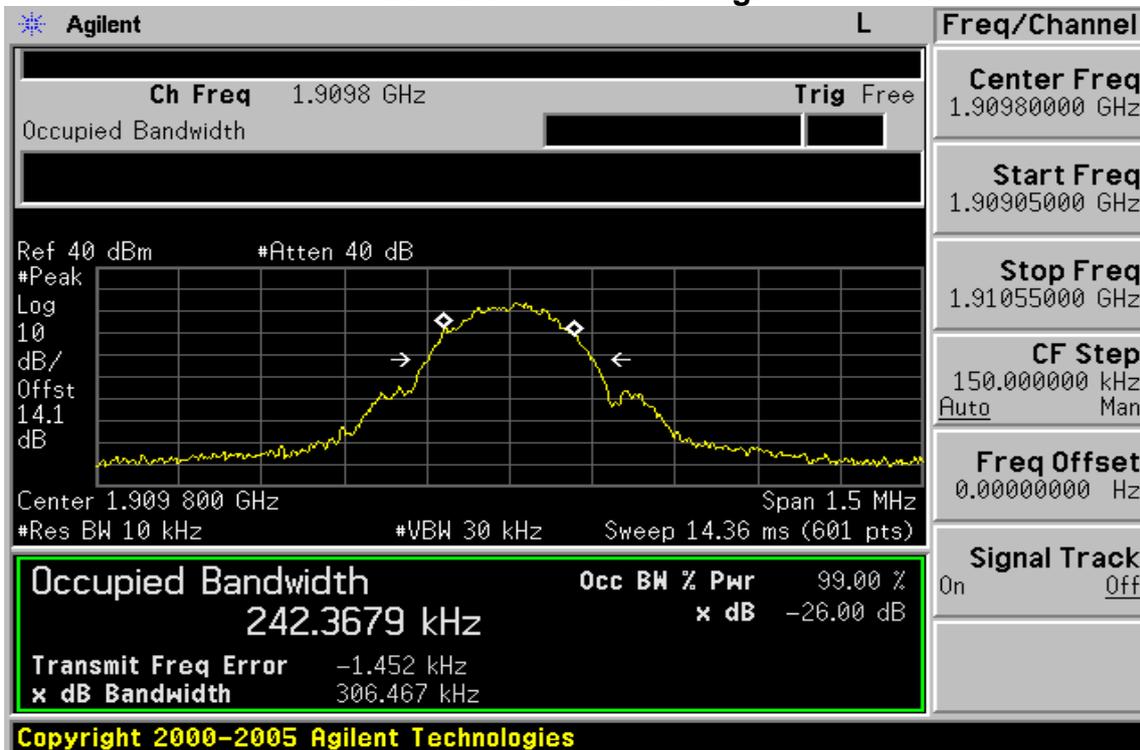
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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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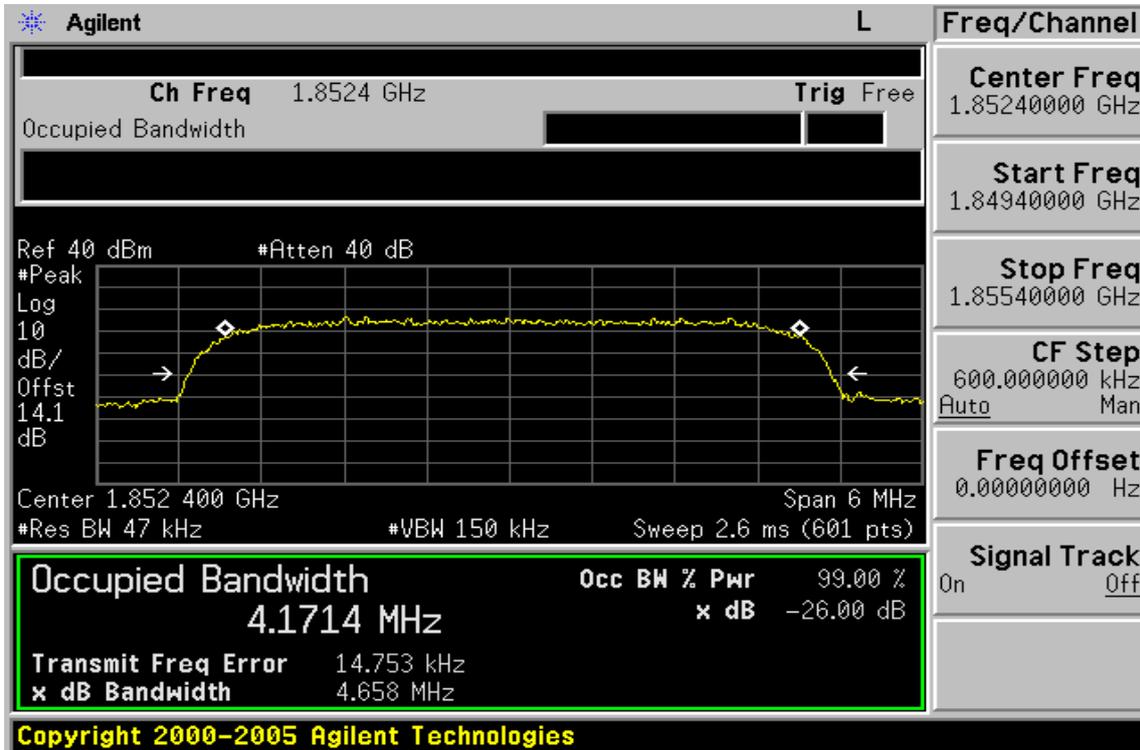
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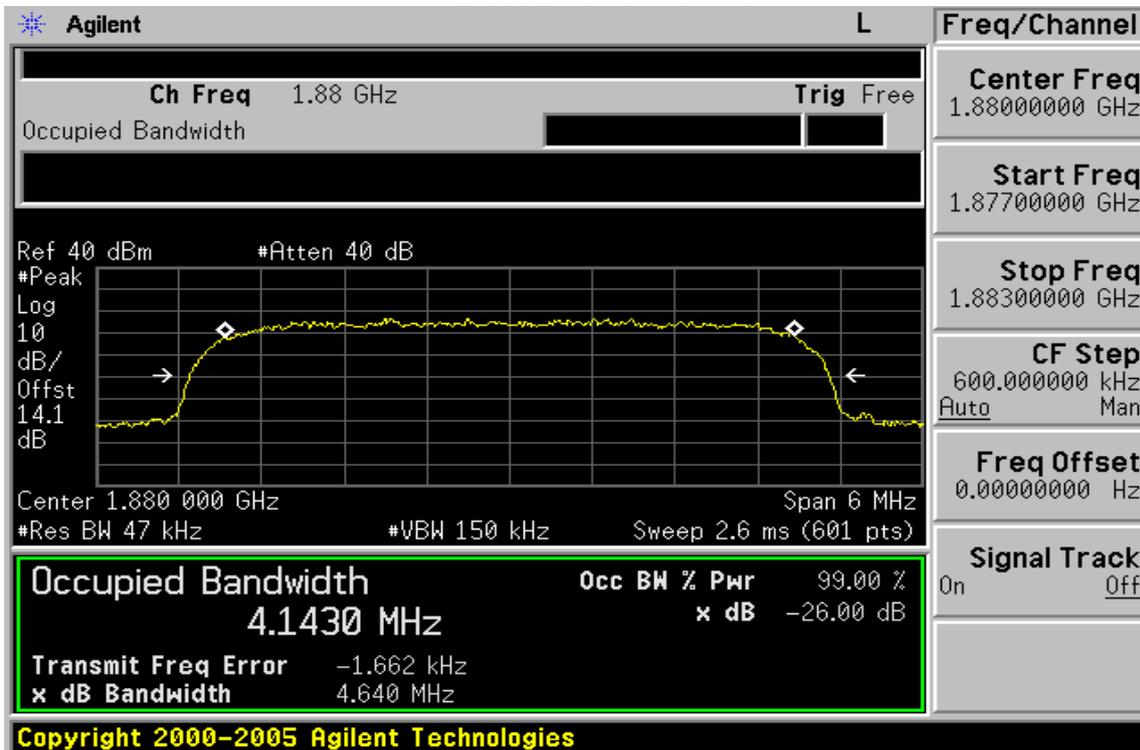
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WCDMA II Channel Low



WCDMA II Channel Mid



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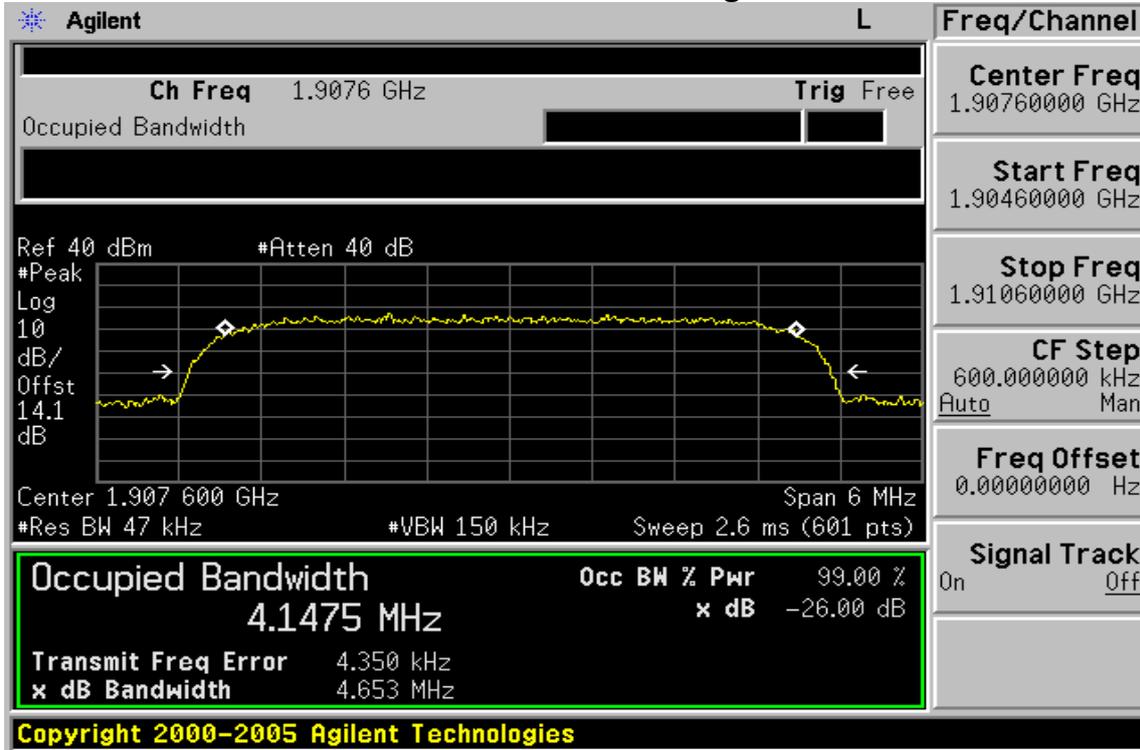
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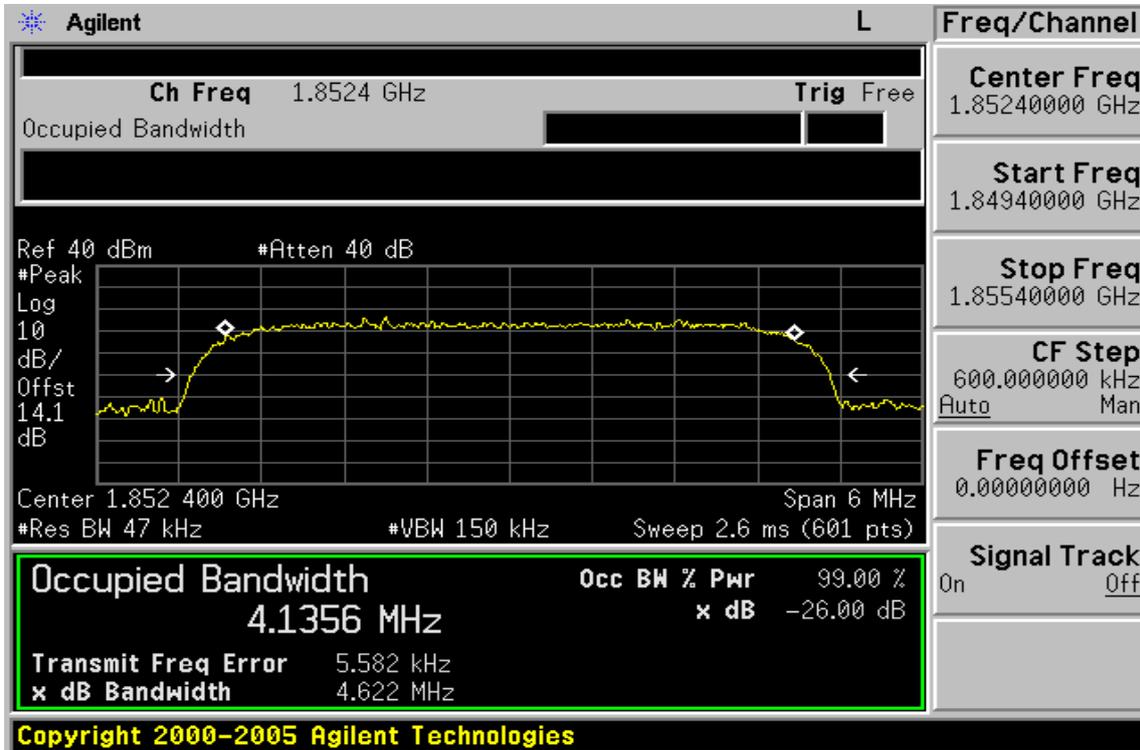
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WCDMA II Channel High



HSDPA II Channel Low



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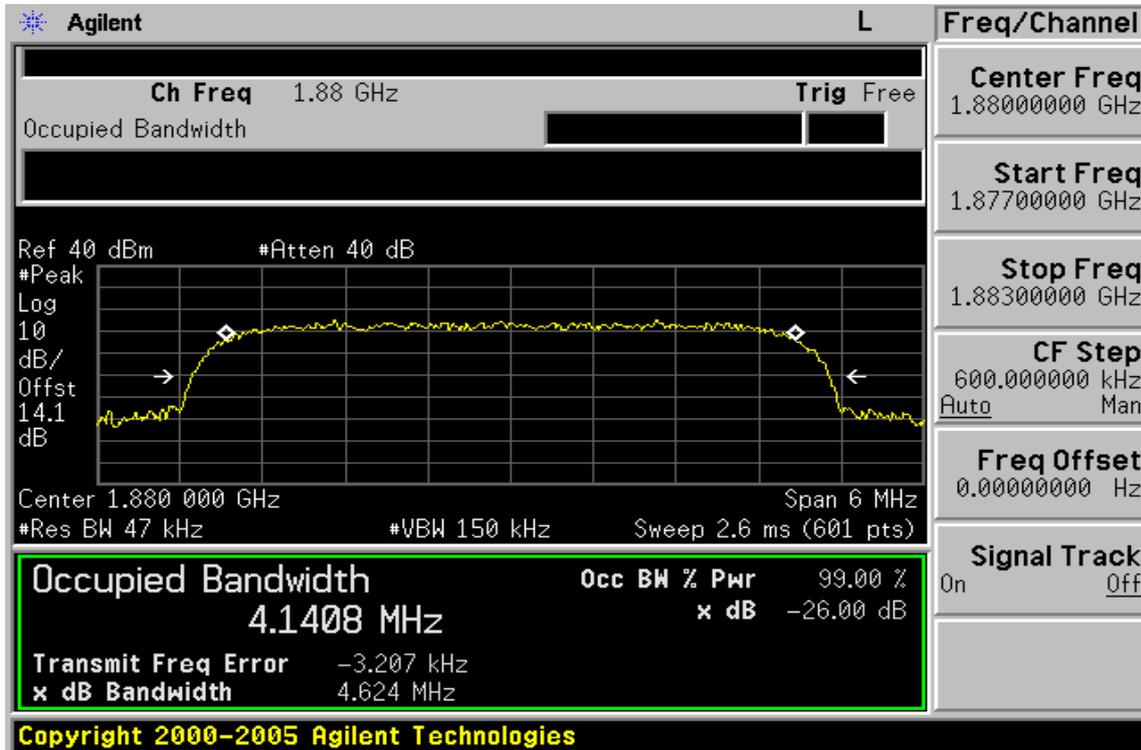
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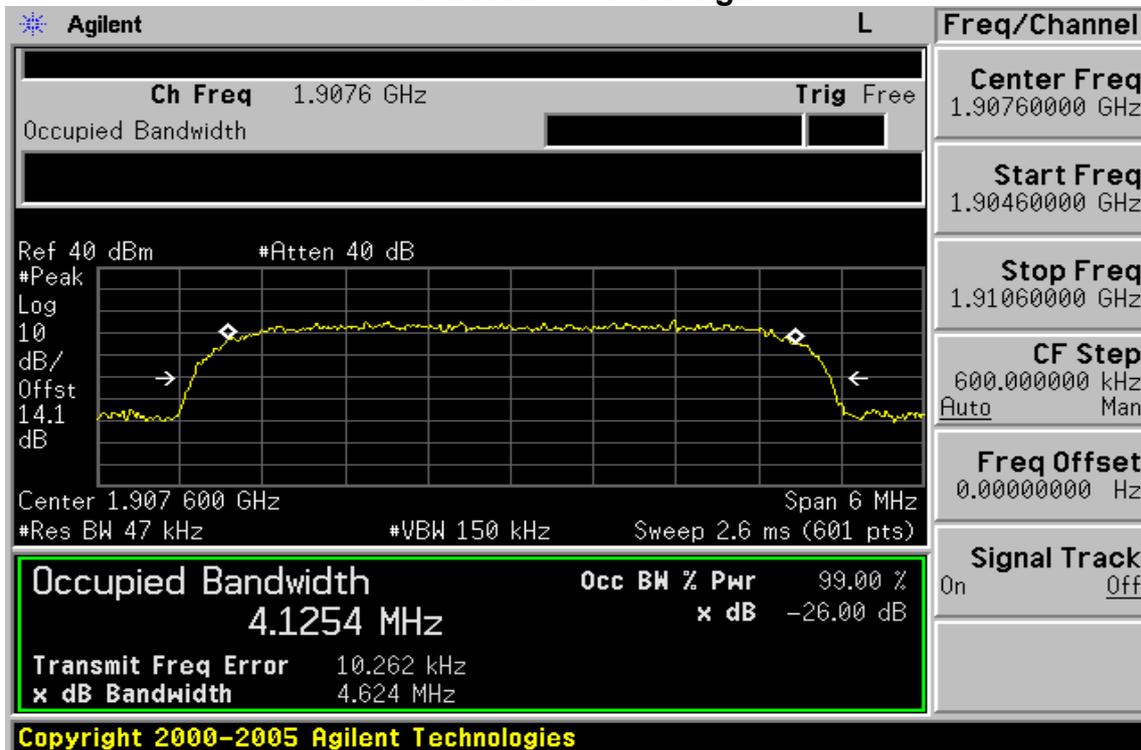
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HSDPA II Channel Mid



HSDPA II Channel High



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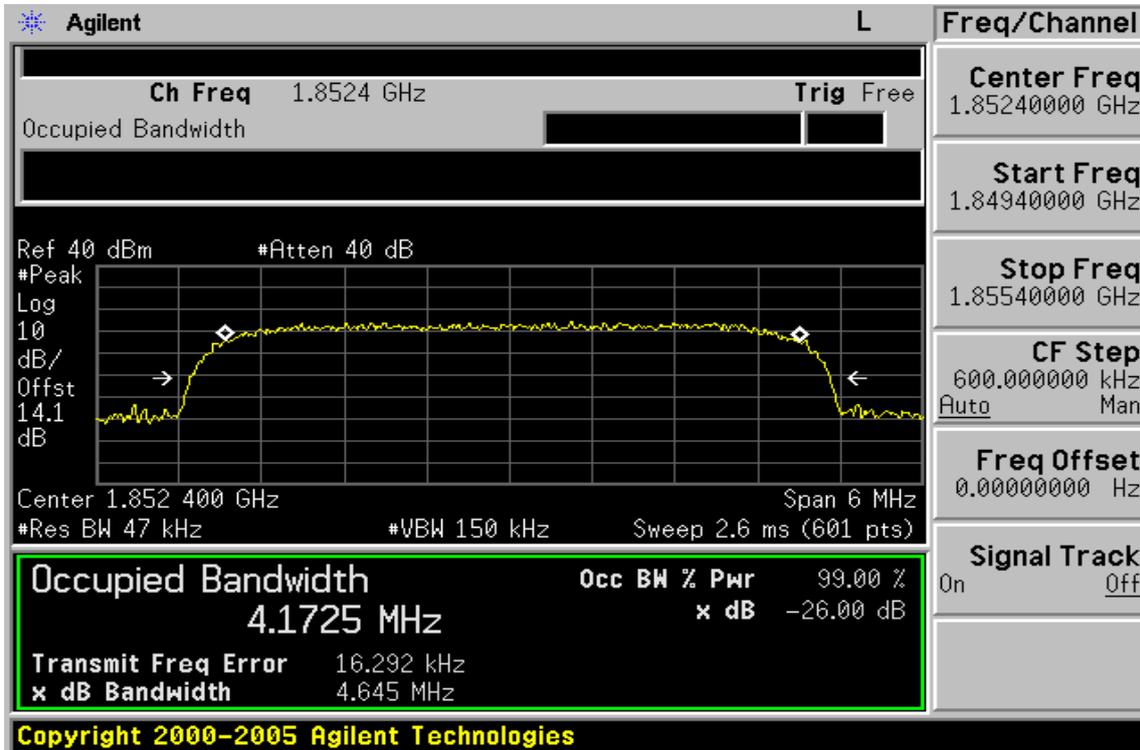
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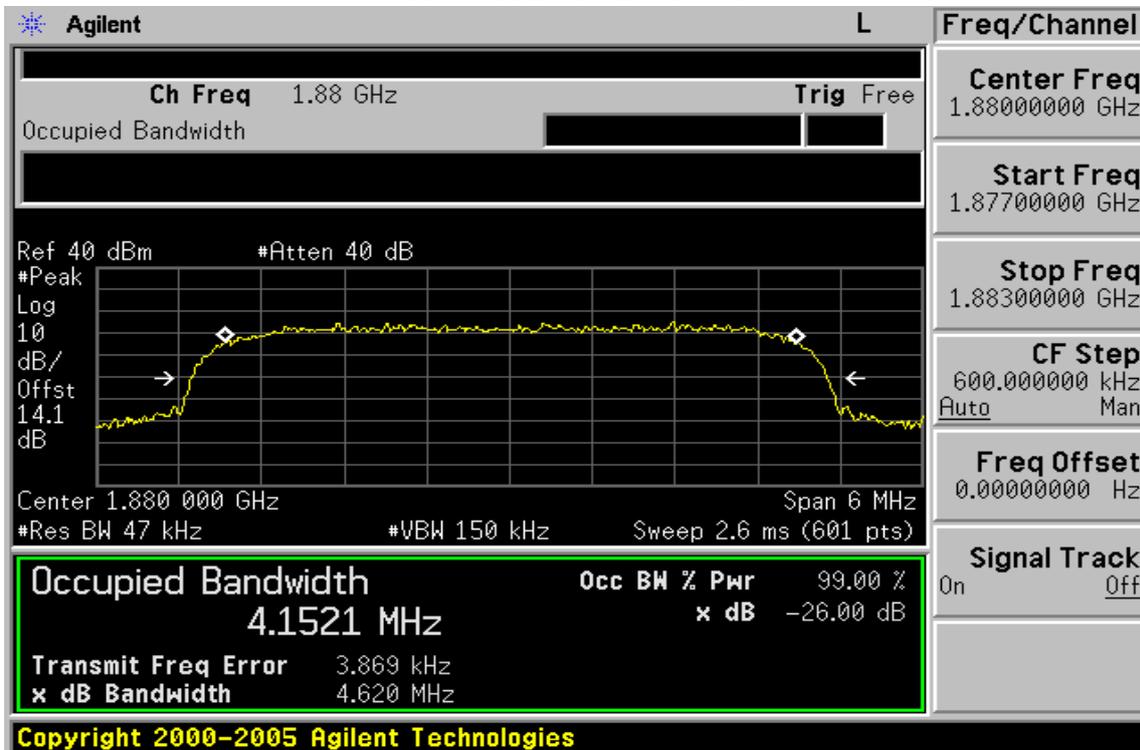
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HSUPA II Channel Low



HSUPA II Channel Mid



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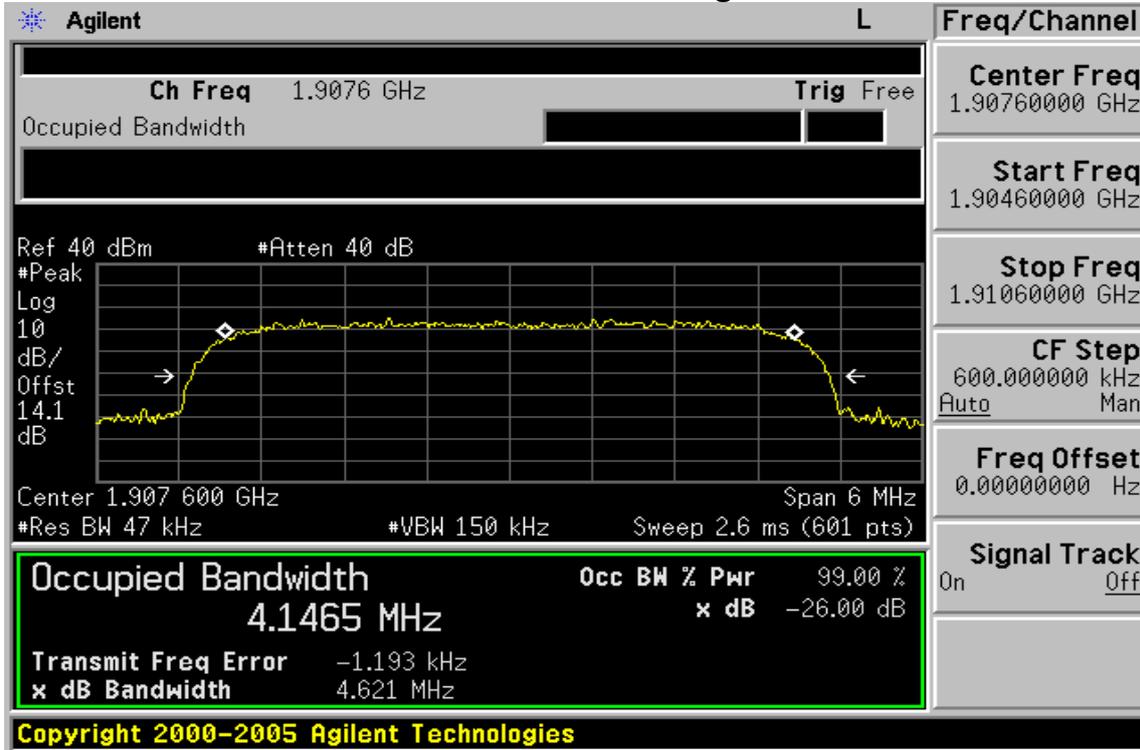
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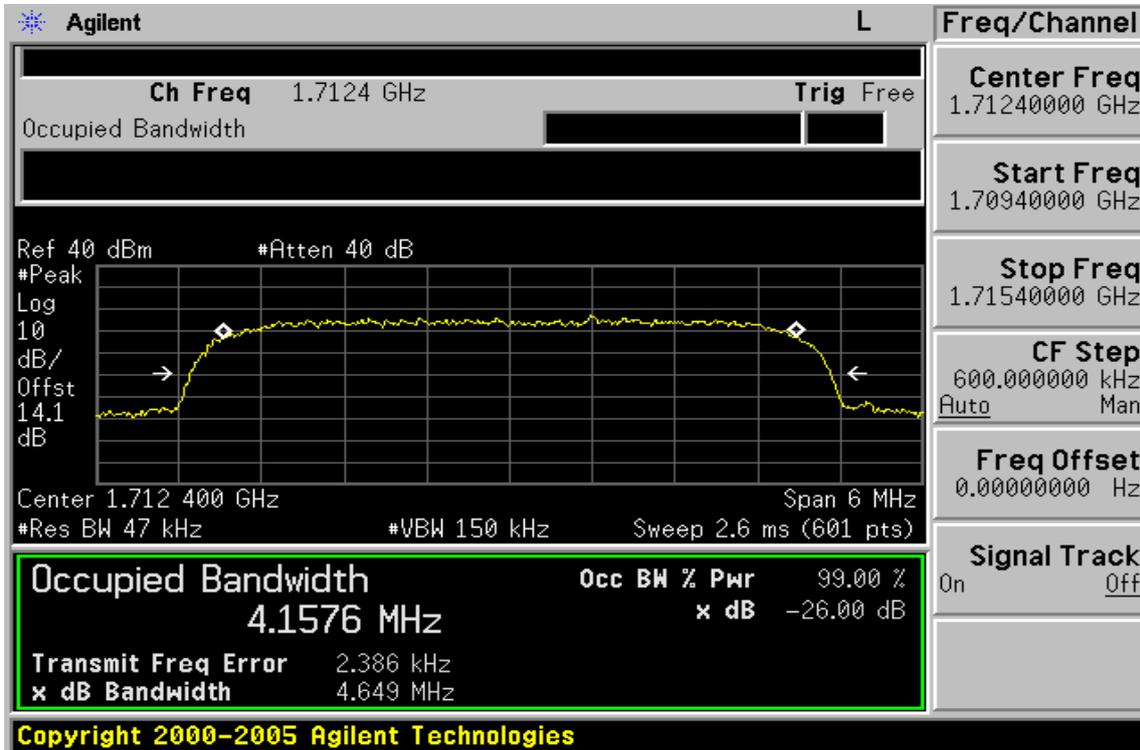
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HSUPA II Channel High



WCDMA IV Channel Low



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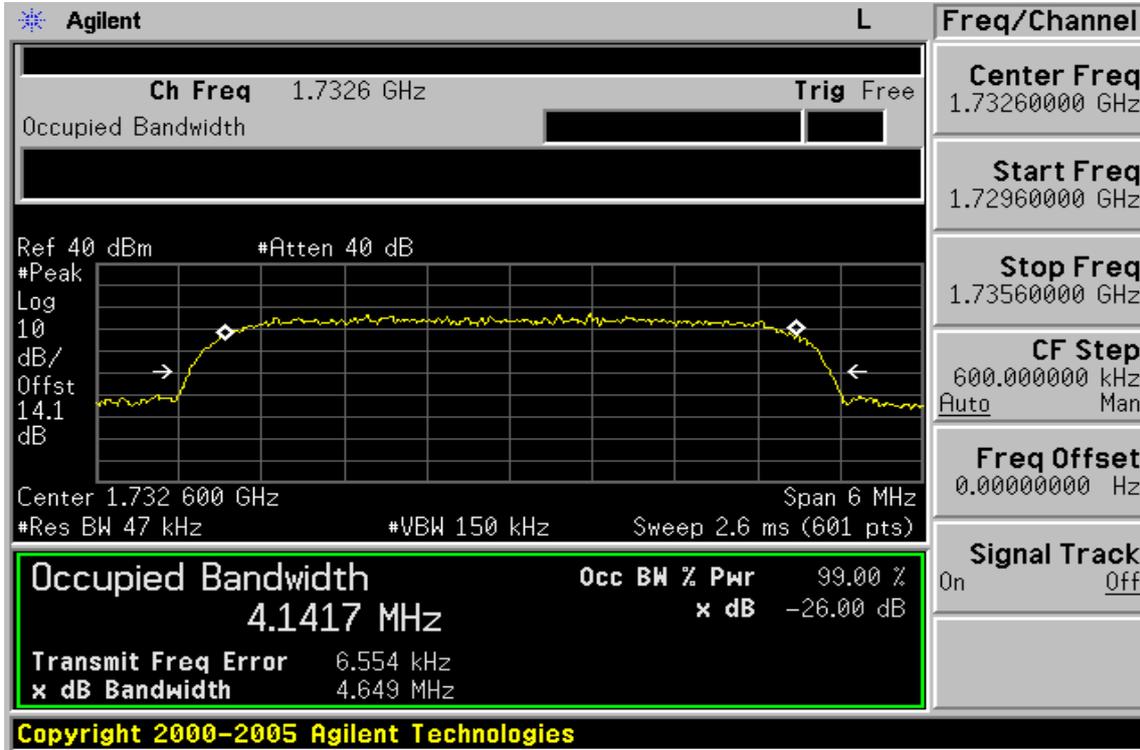
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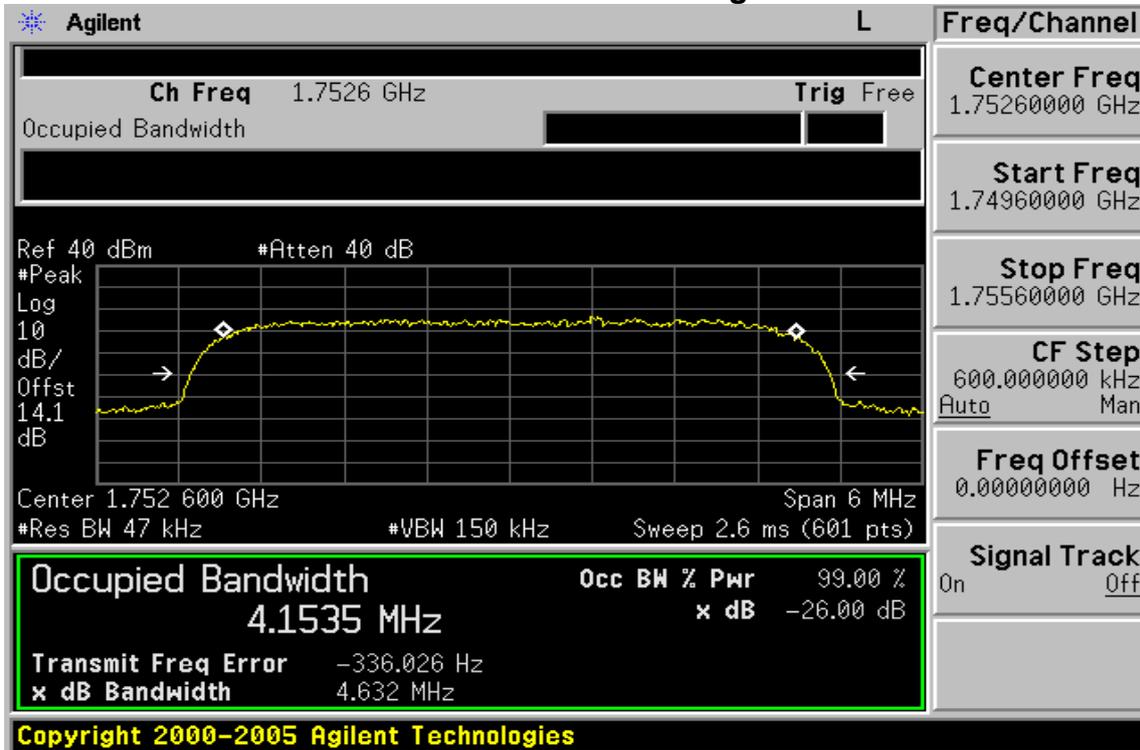
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WCDMA IV Channel Mid



WCDMA IV Channel High



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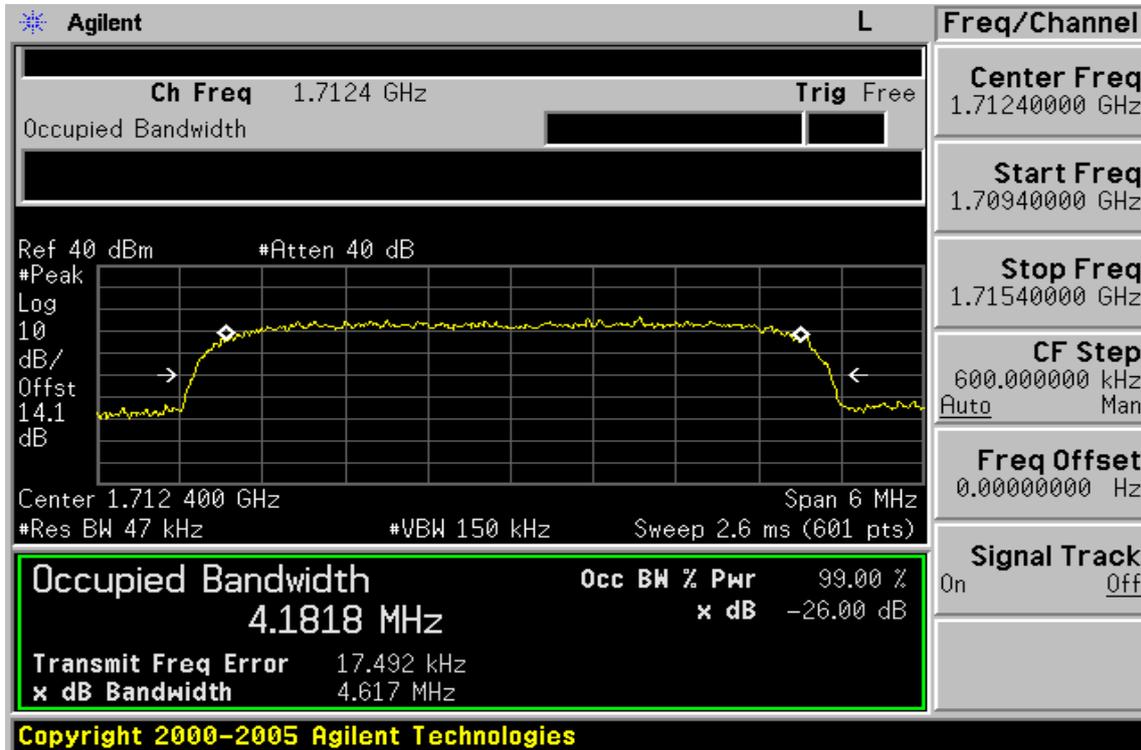
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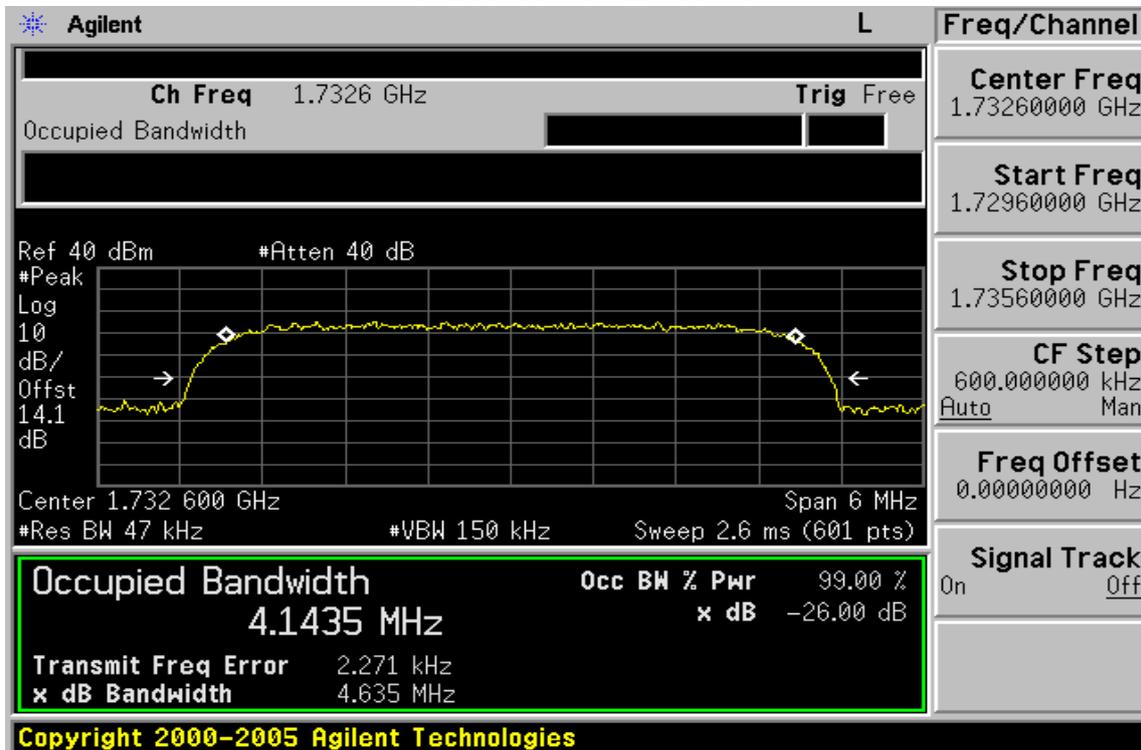
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HSDPA IV Channel Low



HSDPA IV Channel Mid

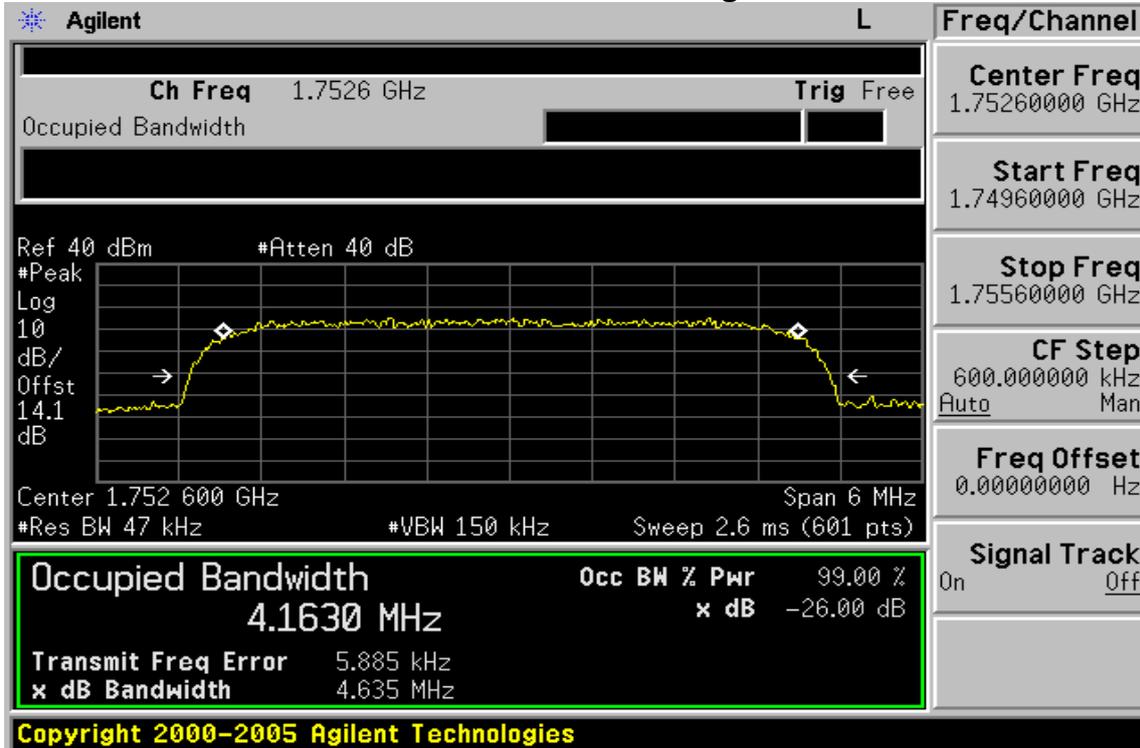


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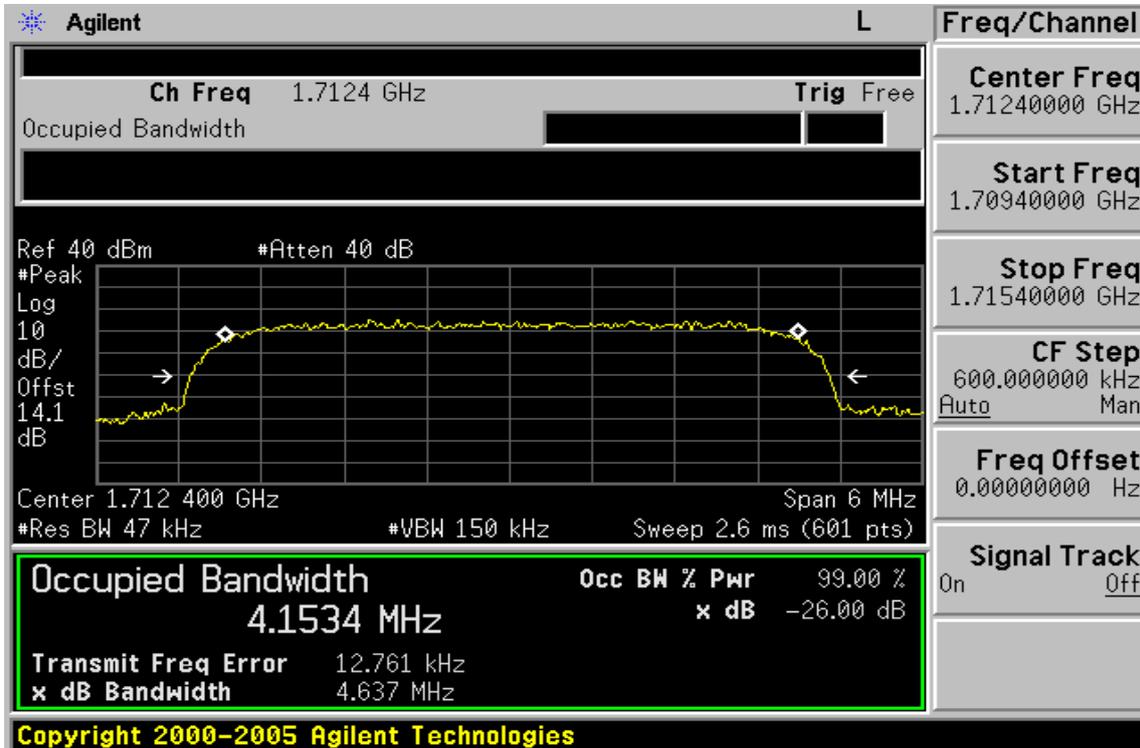
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HSDPA IV Channel High



HSUPA IV Channel Low



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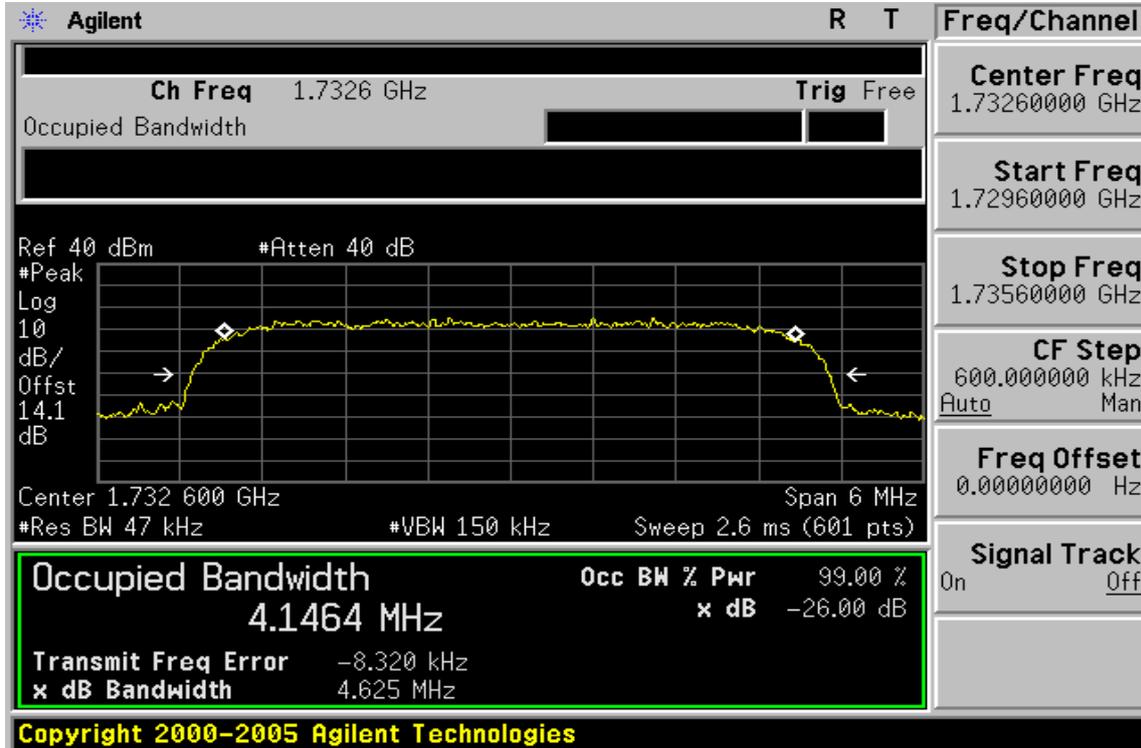
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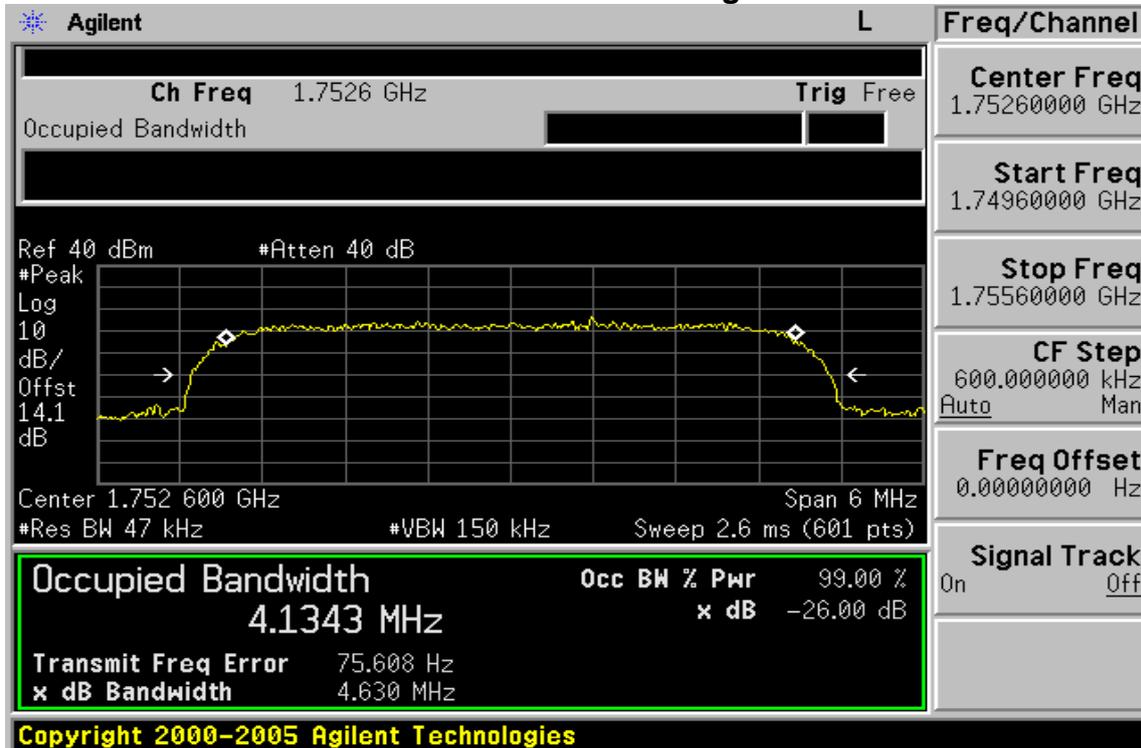
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HSUPA IV Channel Mid



HSUPA IV Channel High



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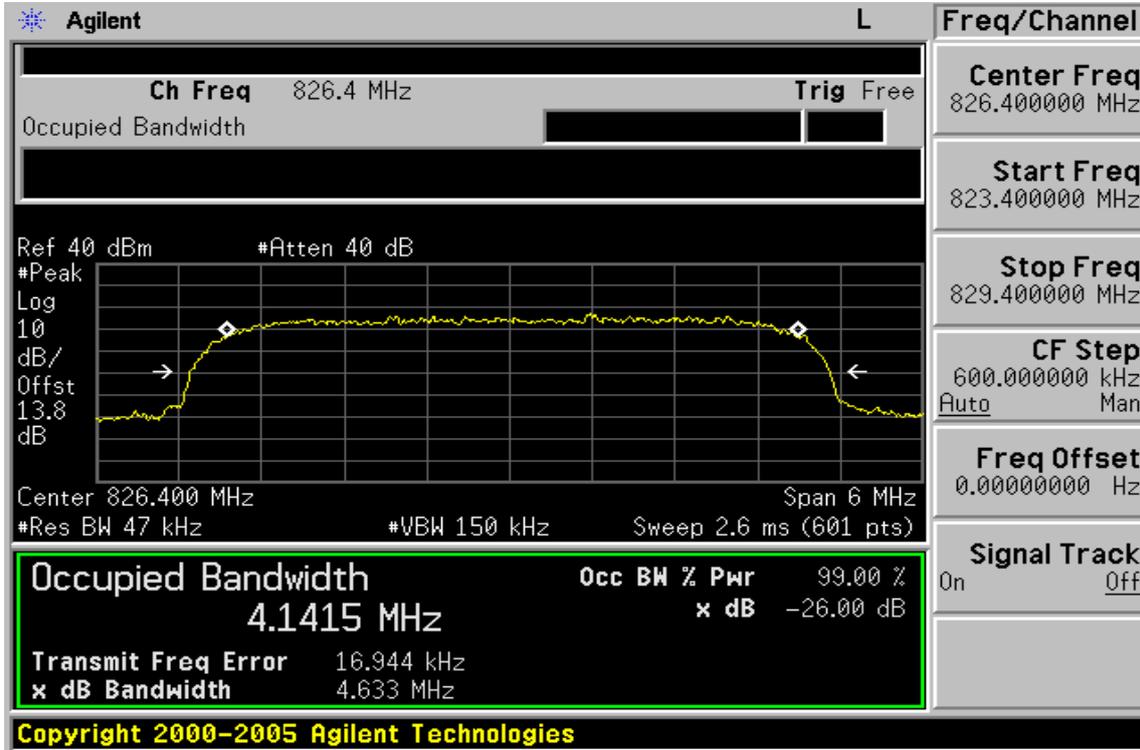
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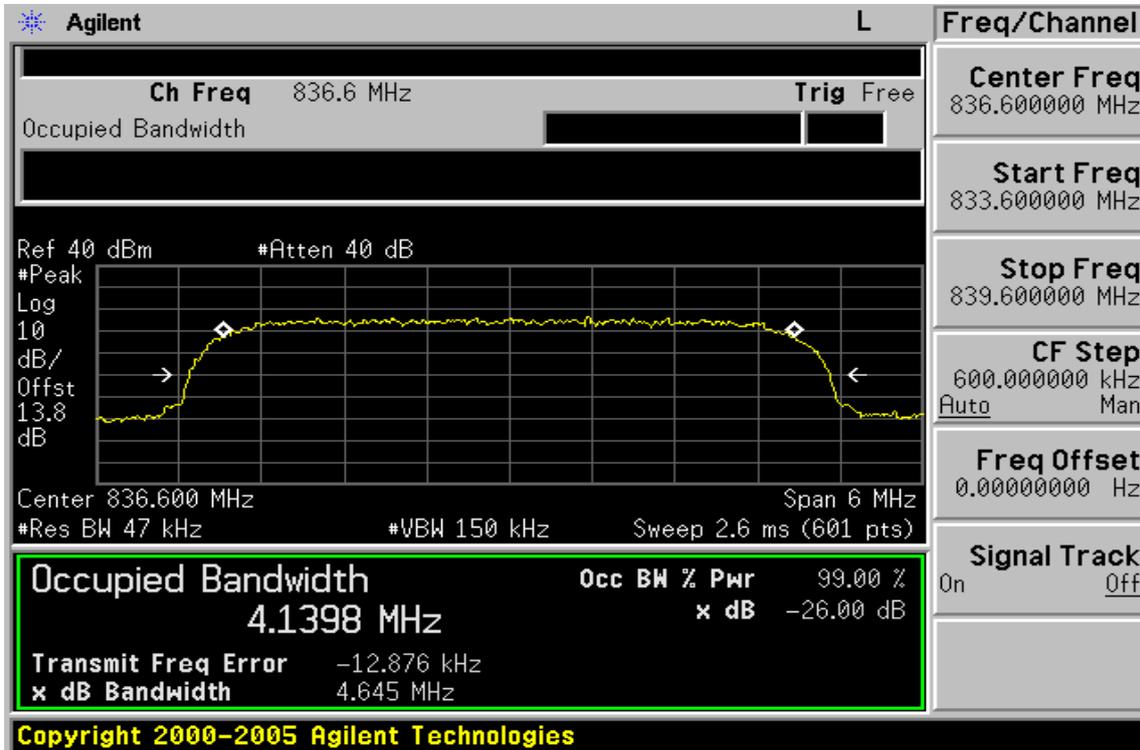
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WCDMA V Channel Low



WCDMA V Channel Mid



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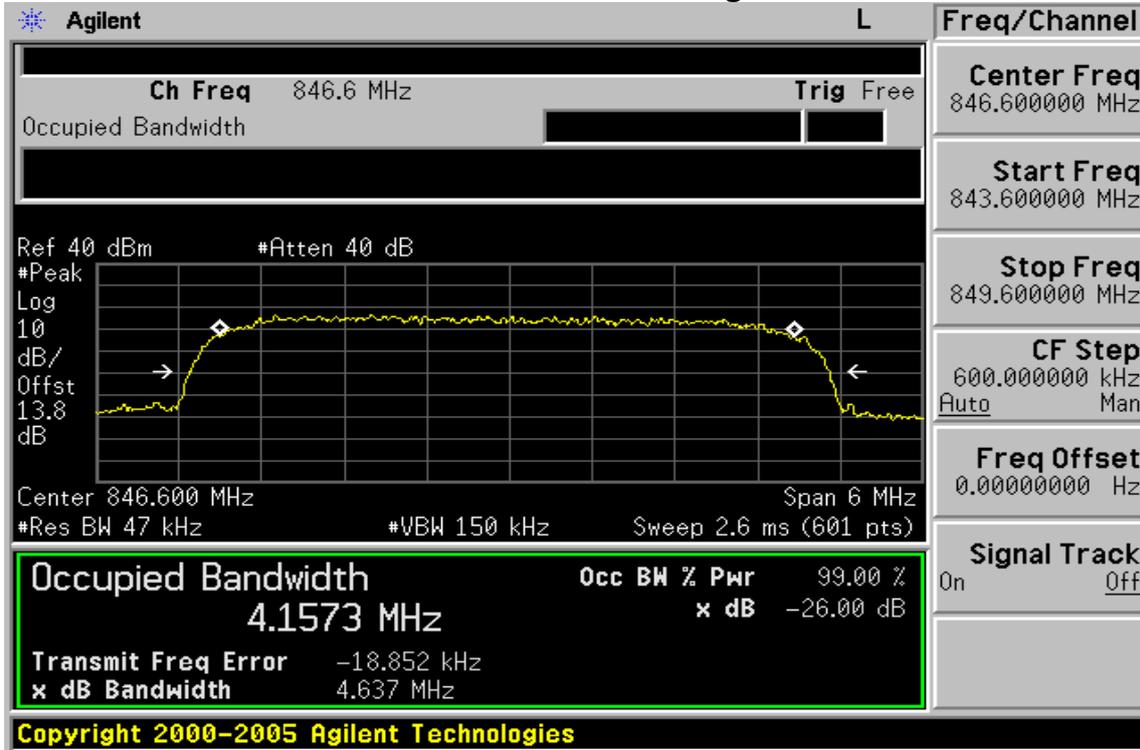
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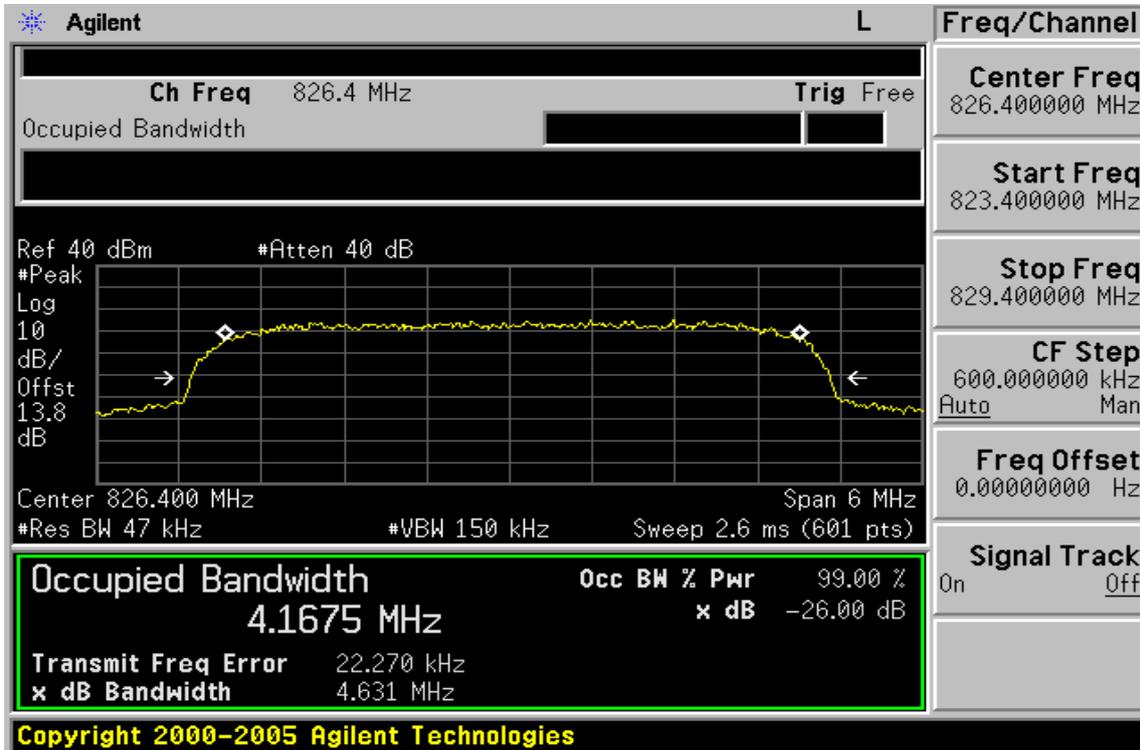
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WCDMA V Channel High



HSDPA V Channel Low



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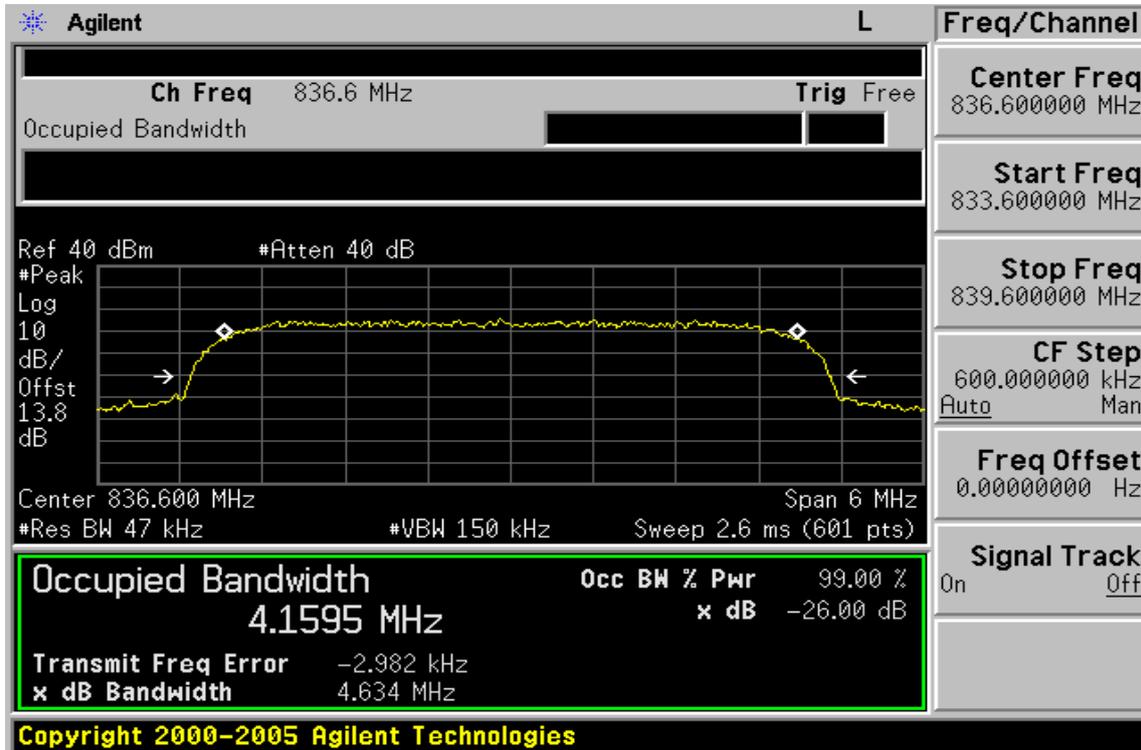
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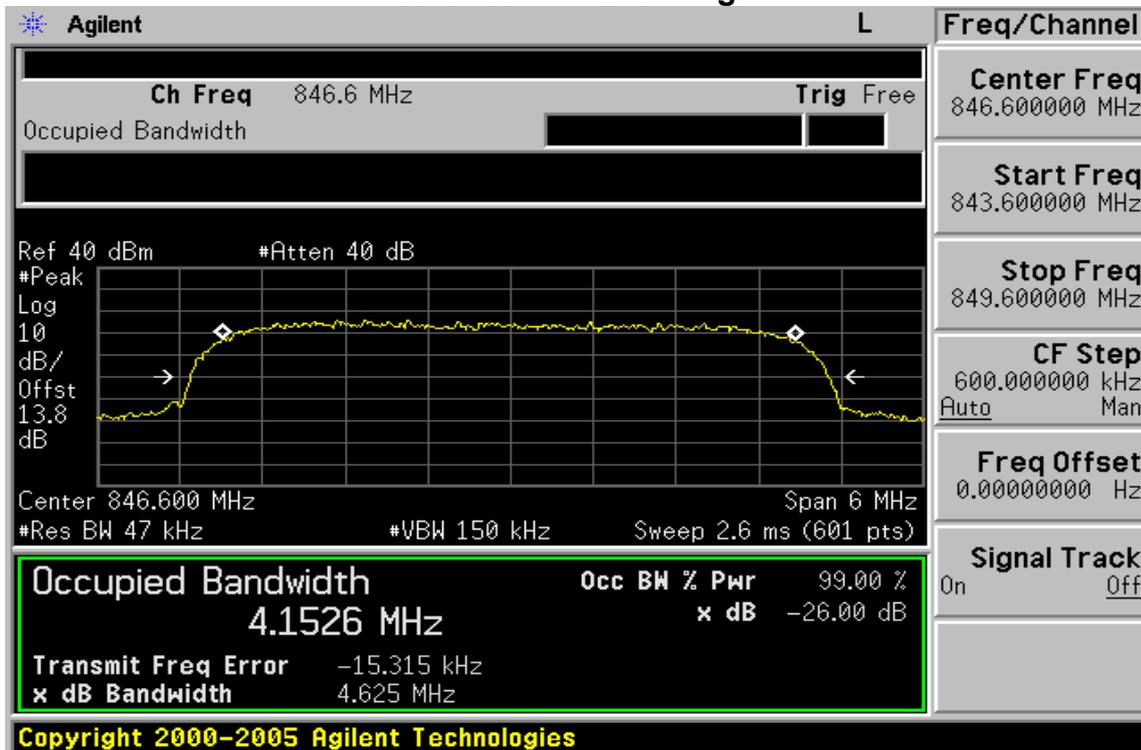
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HSDPA V Channel Mid



HSDPA V Channel High



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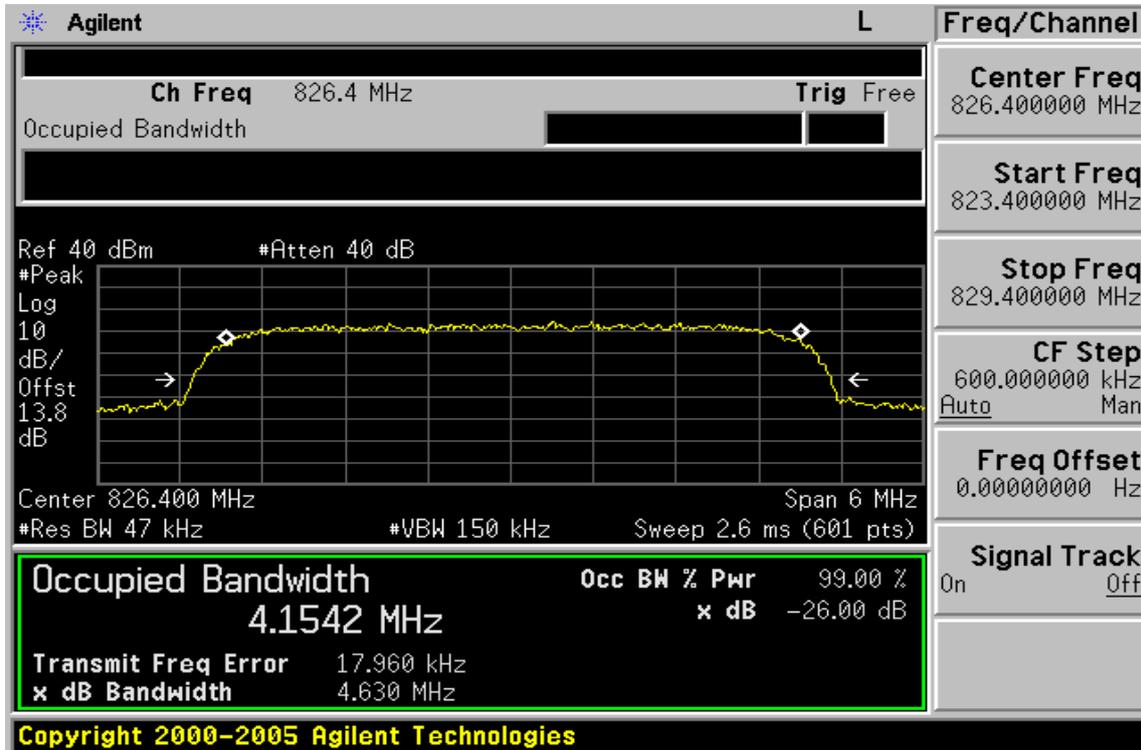
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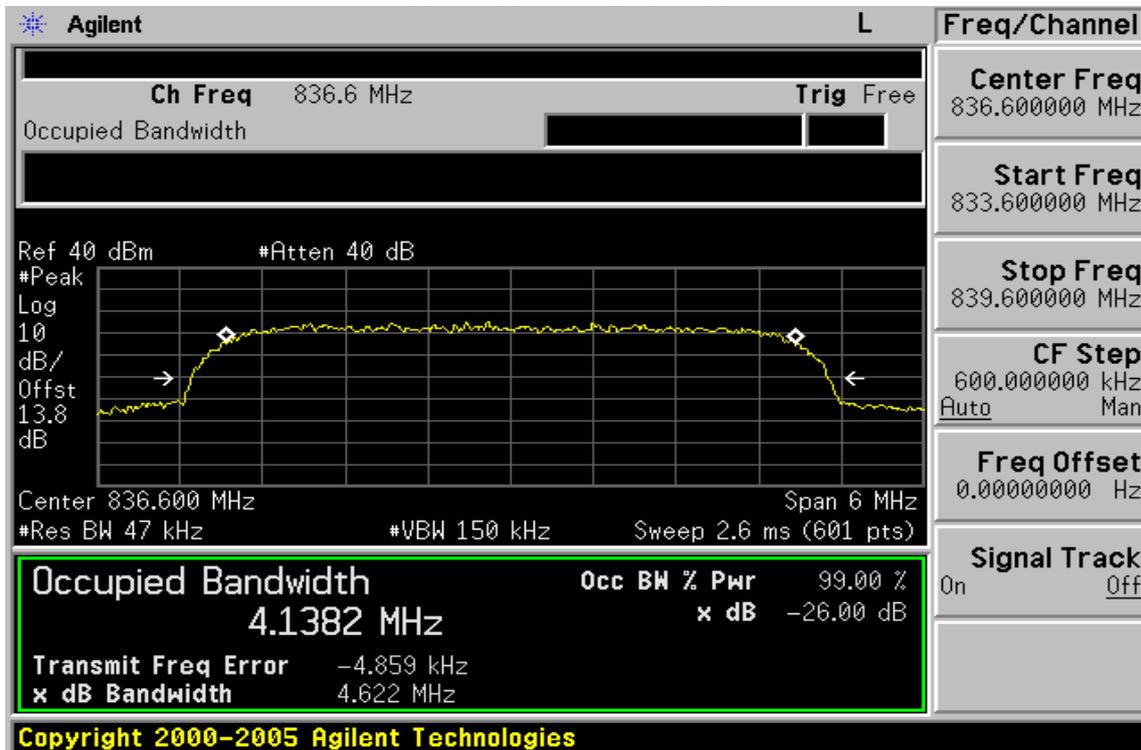
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HSUPA V Channel Low



HSUPA V Channel Mid



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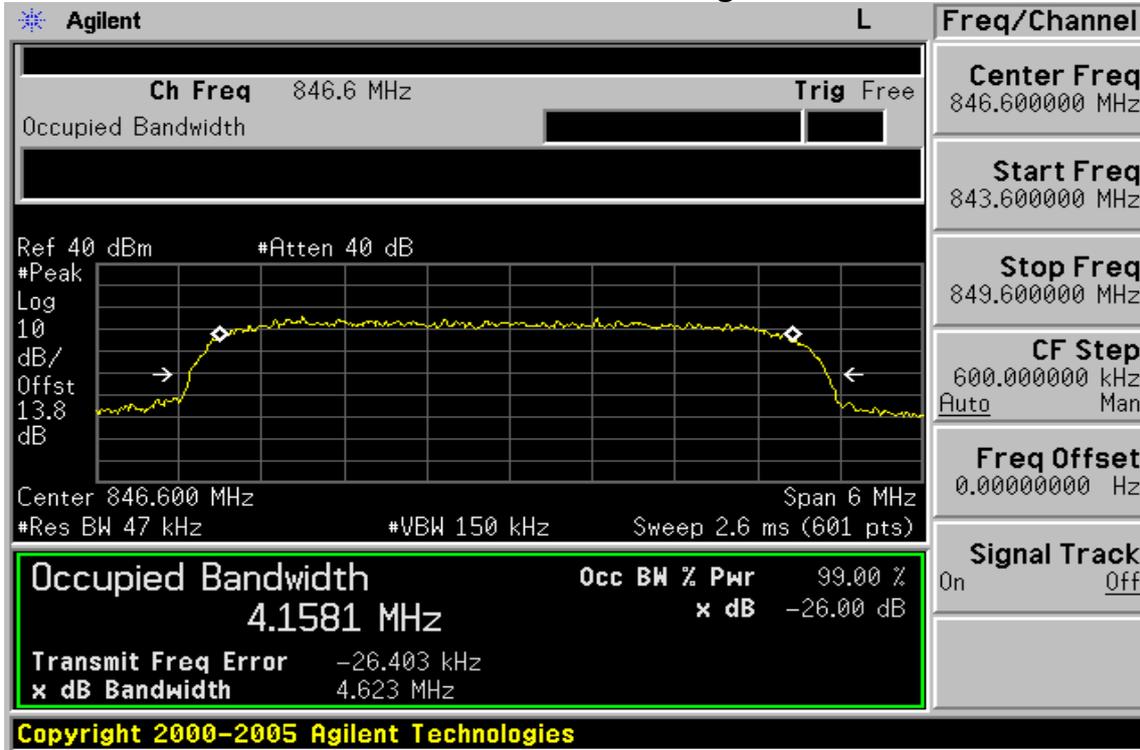
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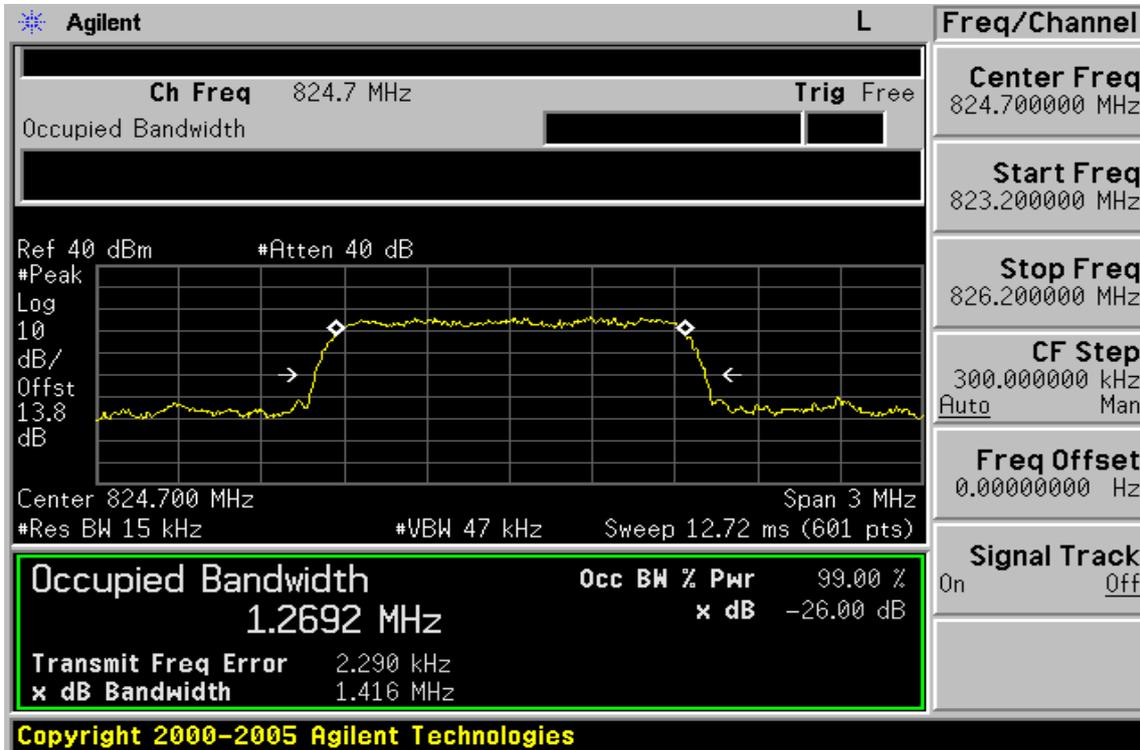
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HSUPA V Channel High



CDMA BC0 Channel Low



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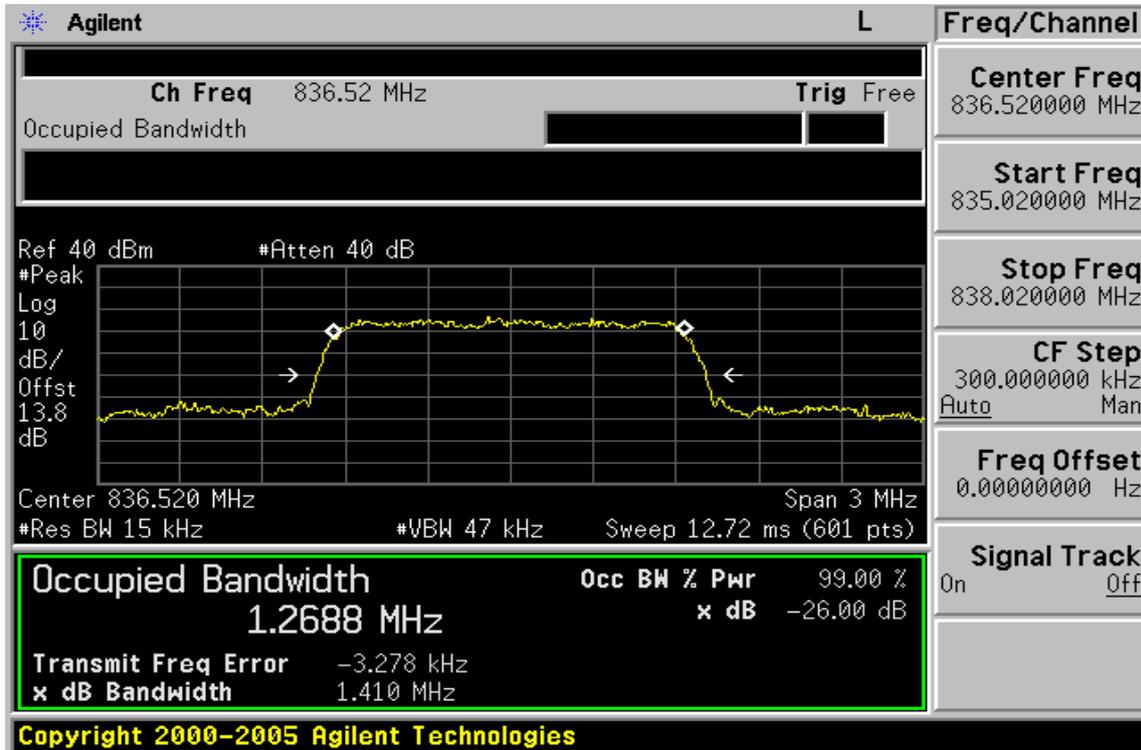
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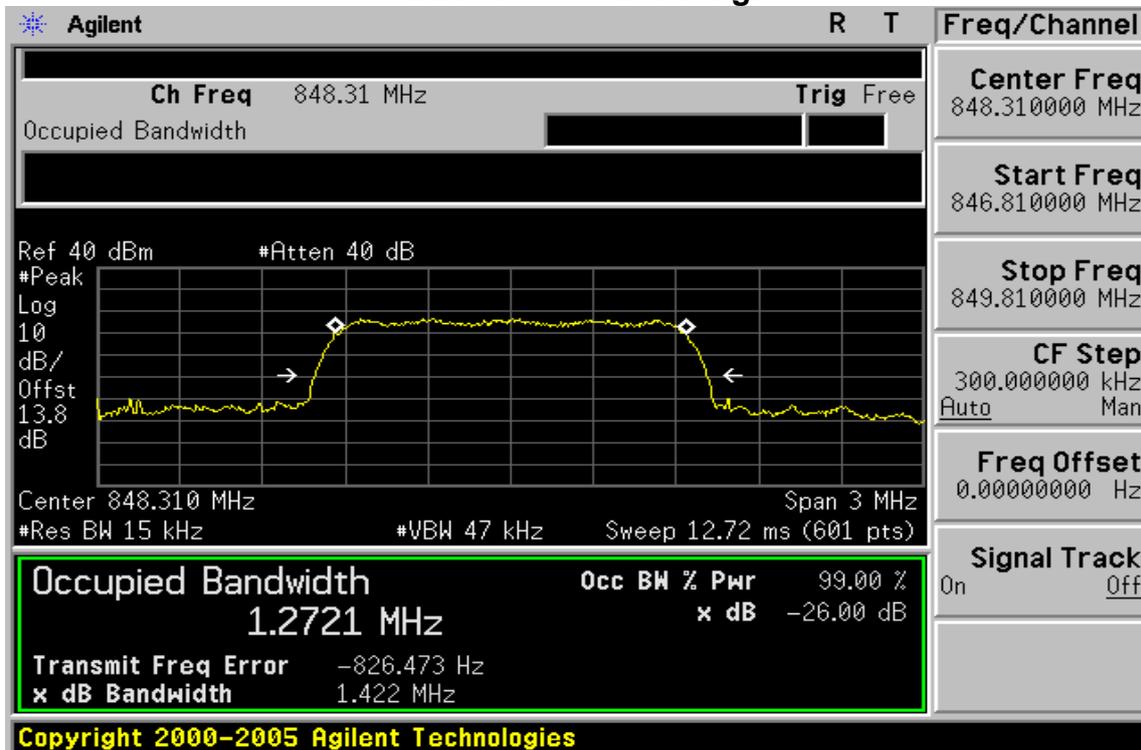
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CDMA BC0 Channel Mid



CDMA BC0 Channel High



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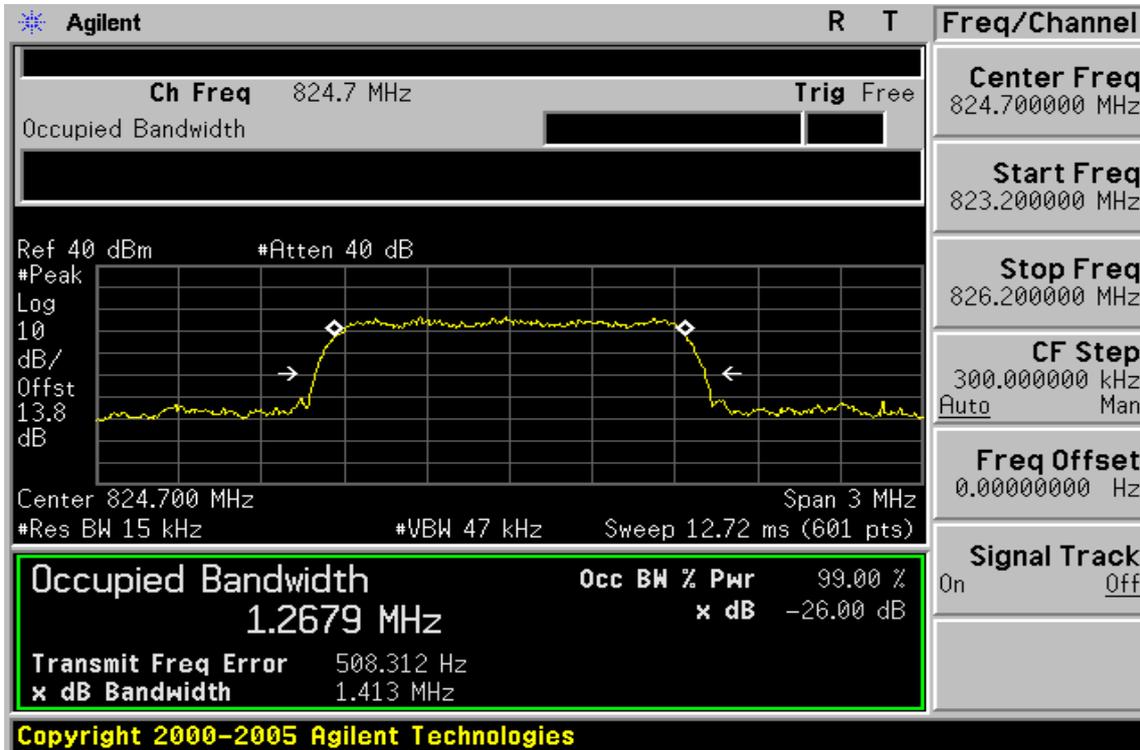
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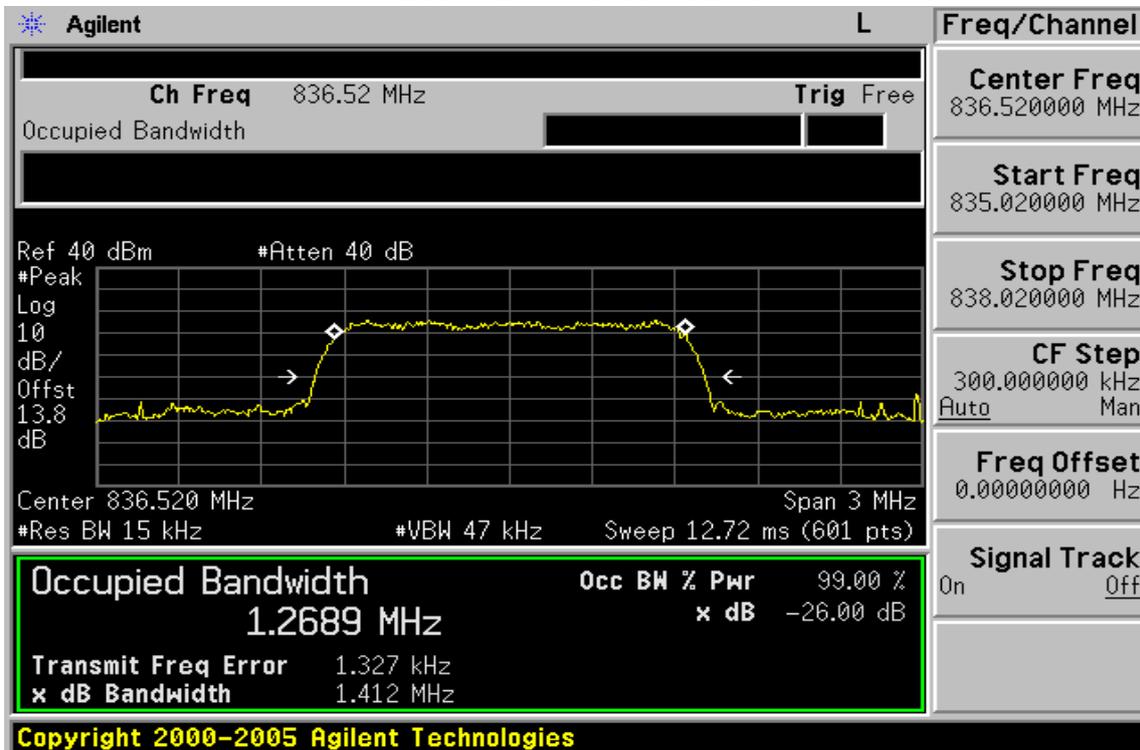
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EVDO BC0 Channel Low



EVDO BC0 Channel Mid



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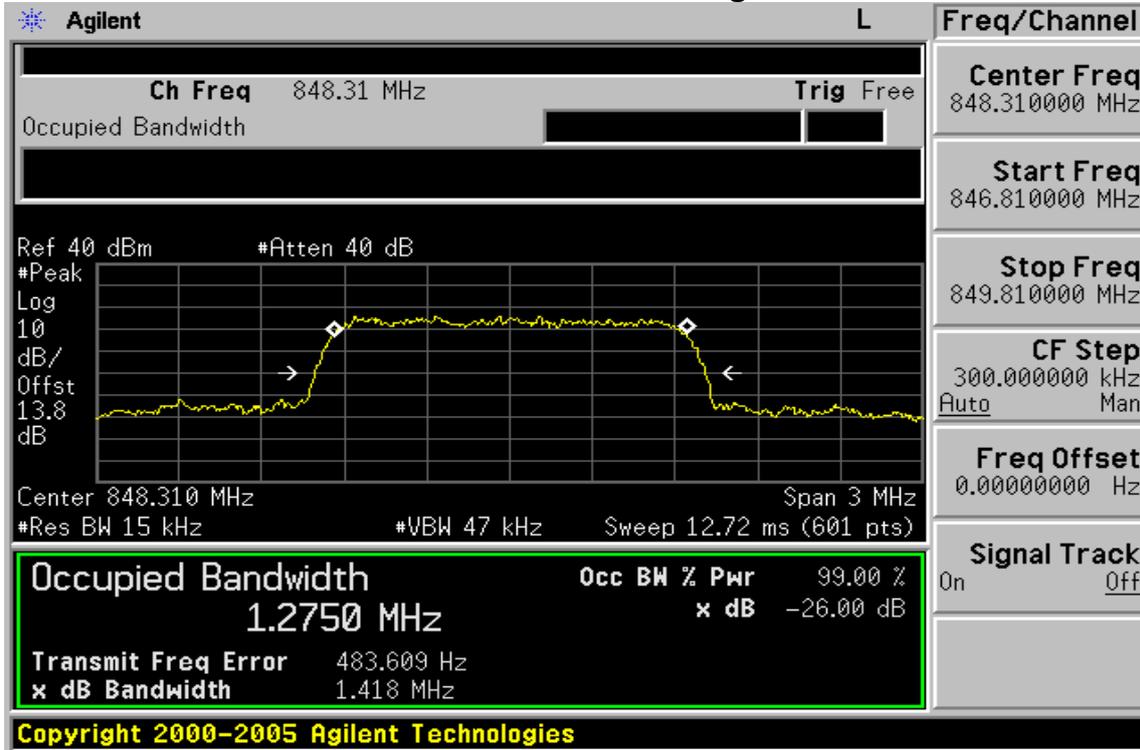
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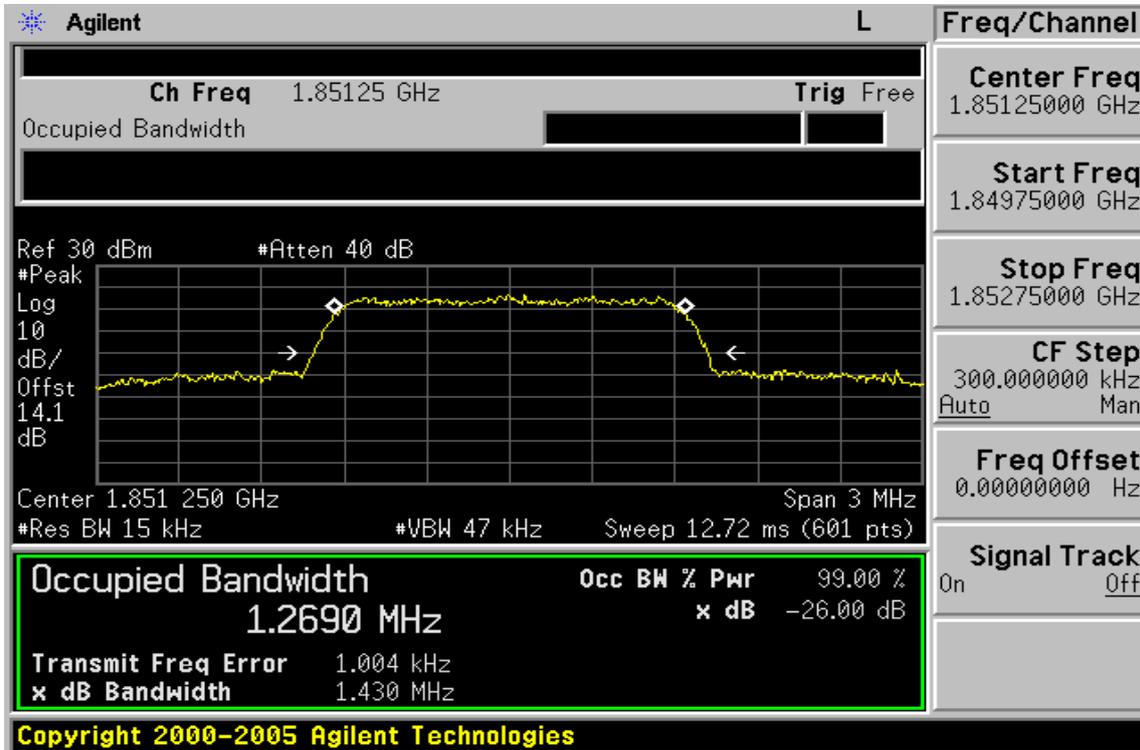
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EVDO BC0 Channel High



CDMA BC1 Channel Low



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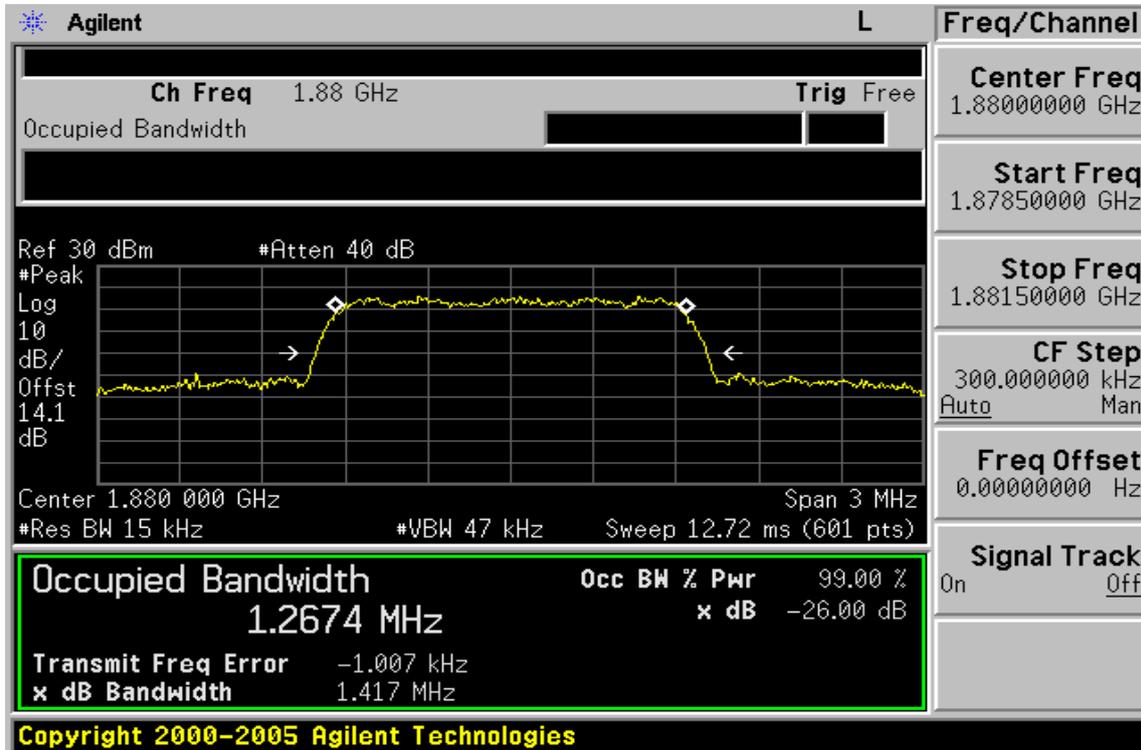
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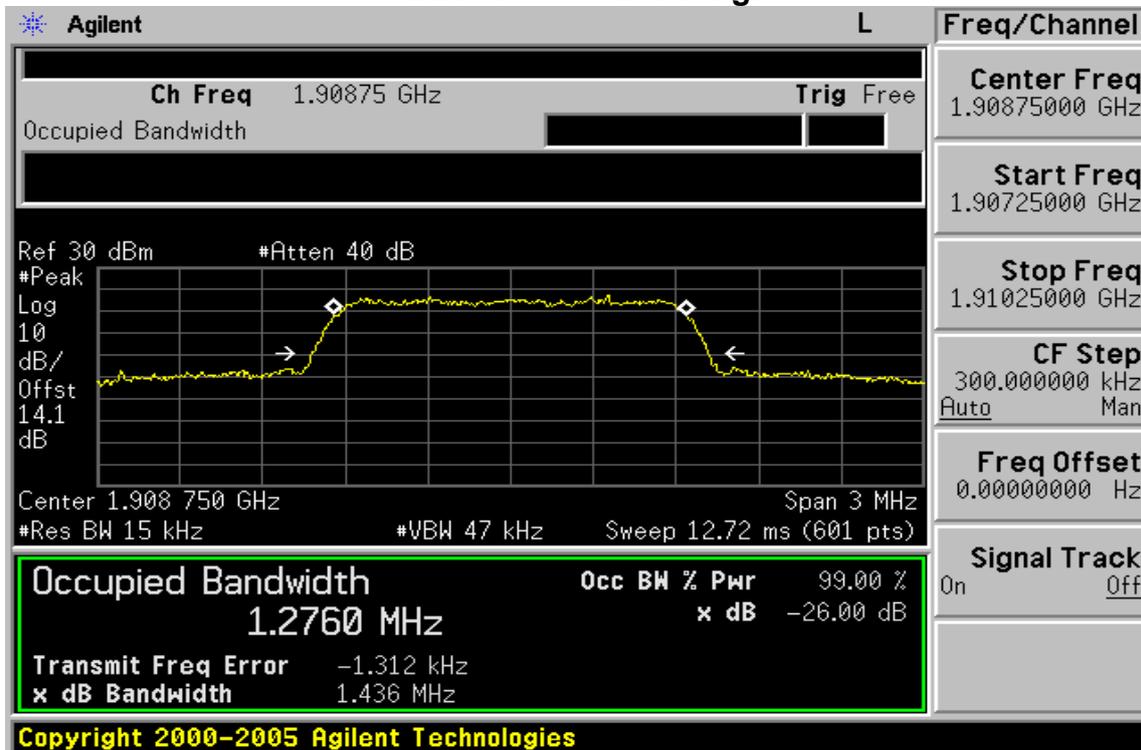
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CDMA BC1 Channel Mid



CDMA BC1 Channel High



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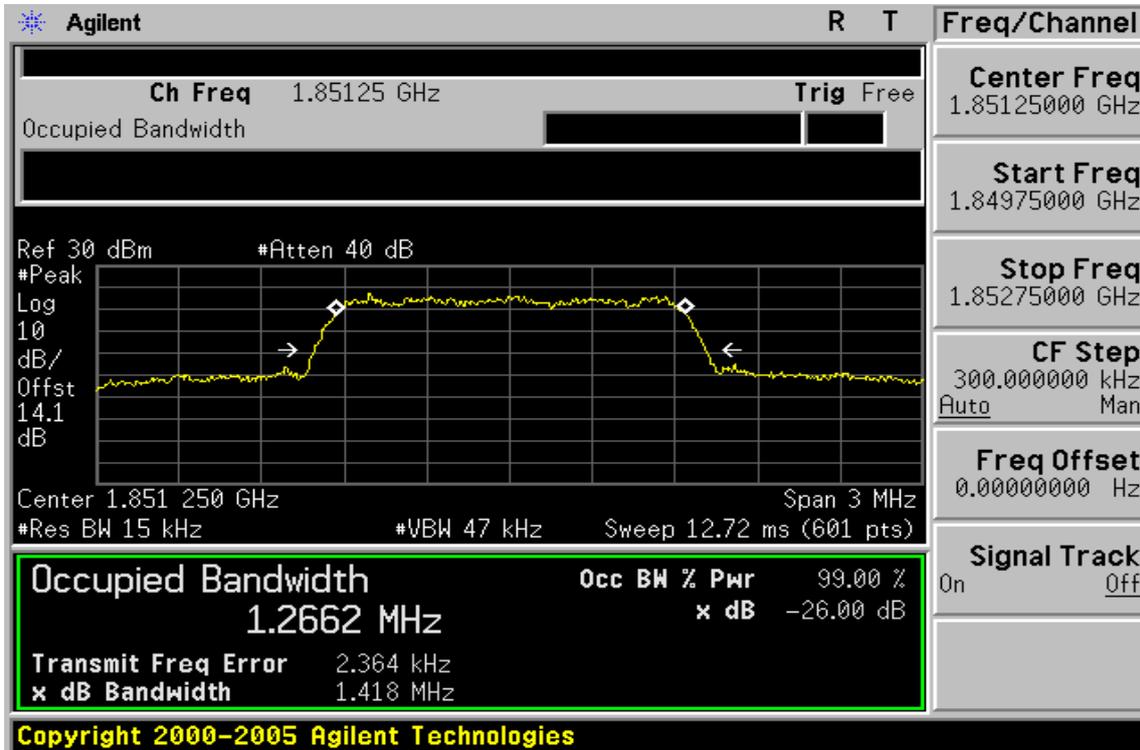
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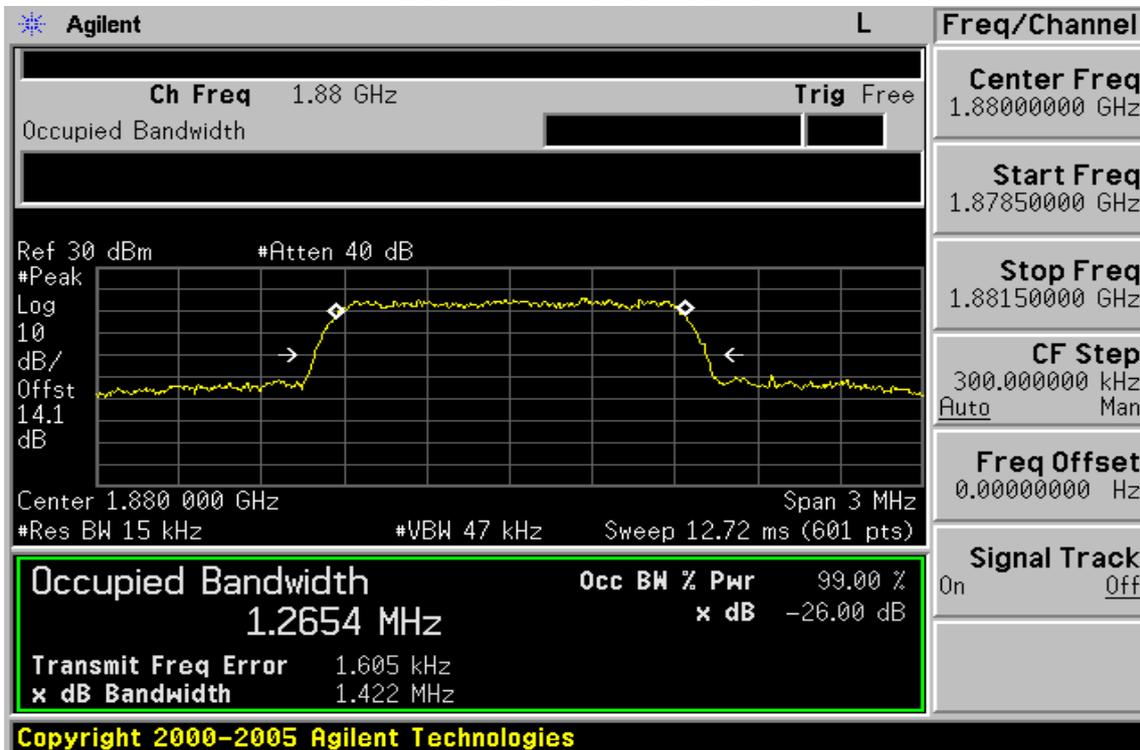
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EVDO BC1 Channel Low



EVDO BC1 Channel Mid



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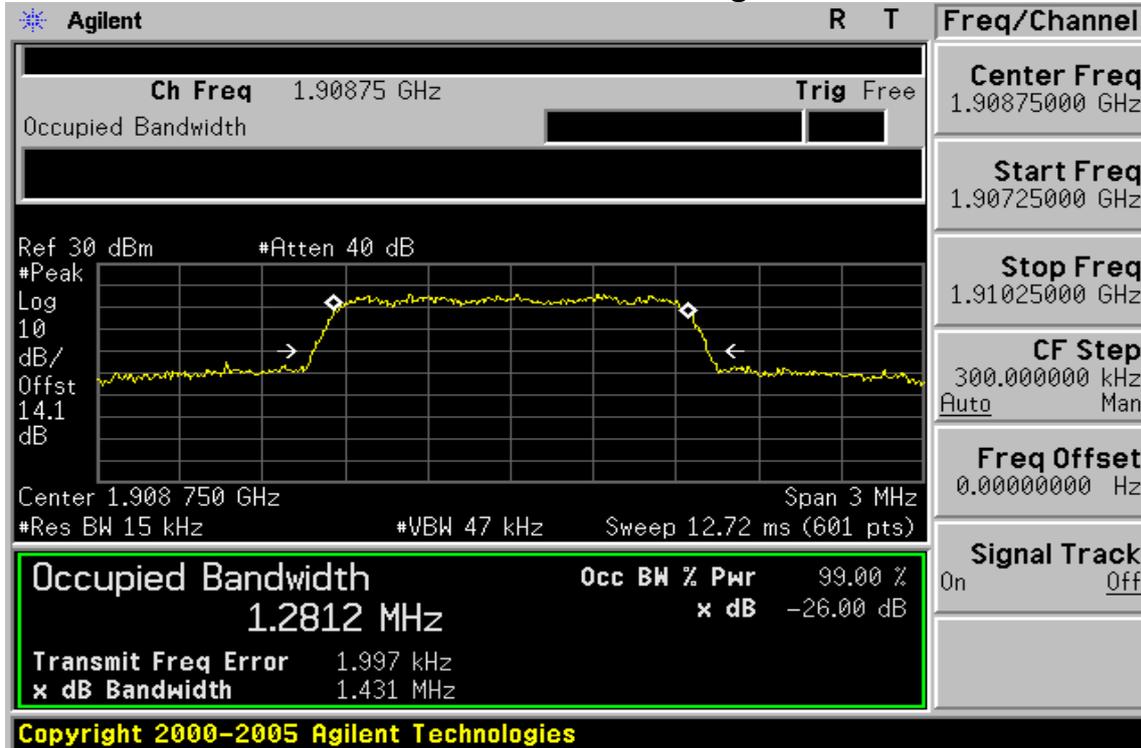
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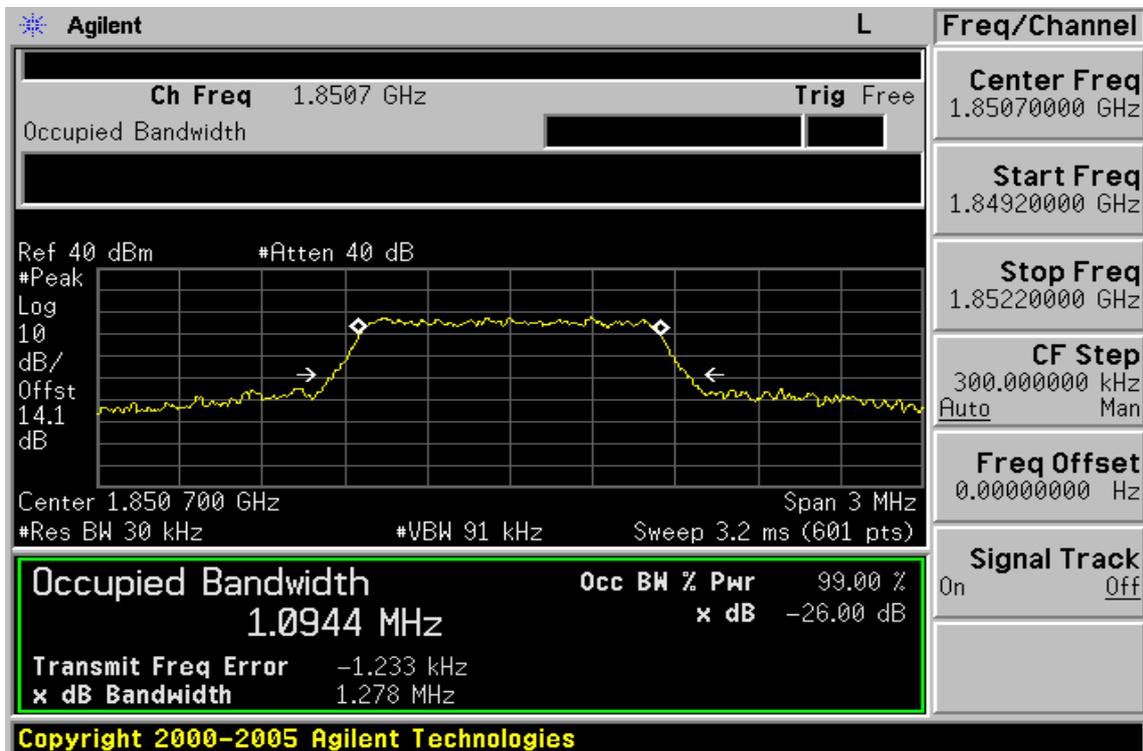
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EVDO BC1 Channel High



1.4MHz BW LTE-Band 2 QPSK Channel Low



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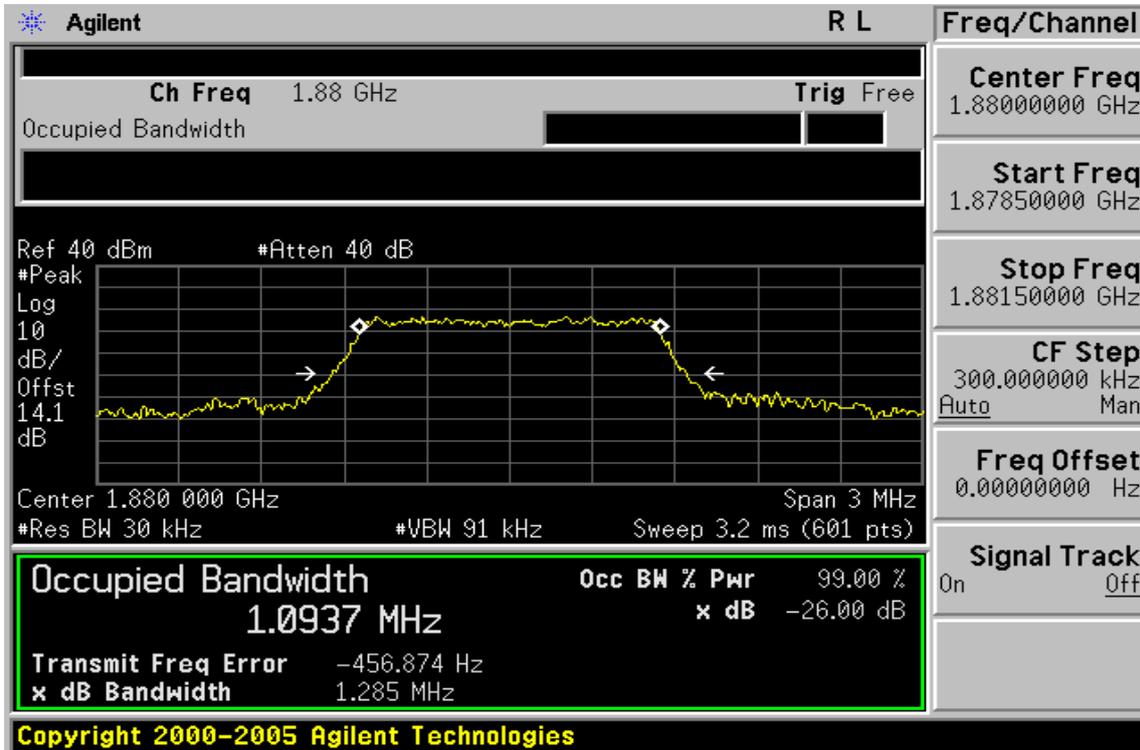
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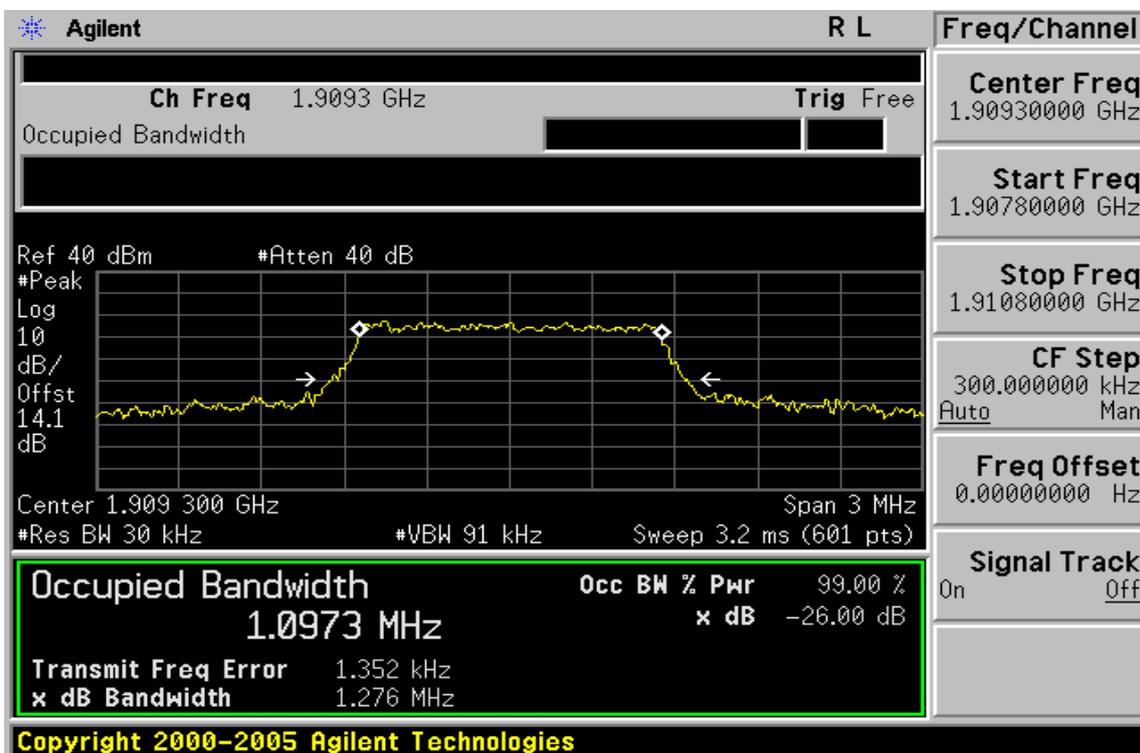
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1.4MHz BW LTE-Band 2 QPSK Channel Mid



1.4MHz BW LTE-Band 2 QPSK Channel High



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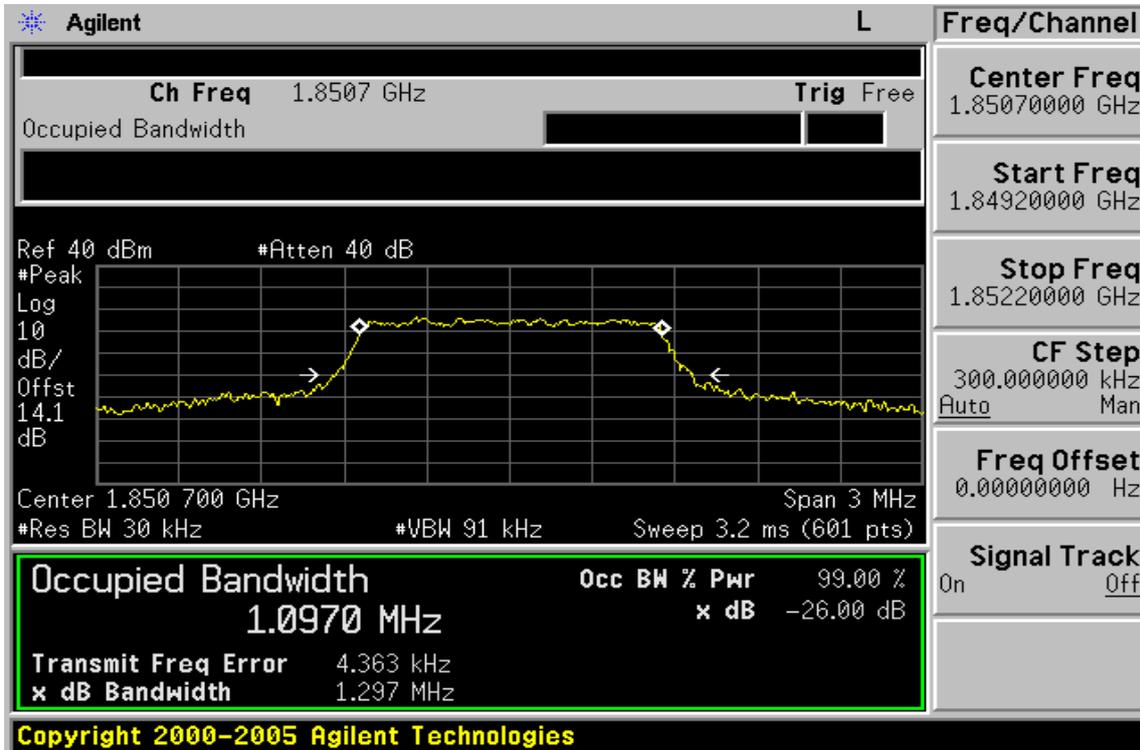
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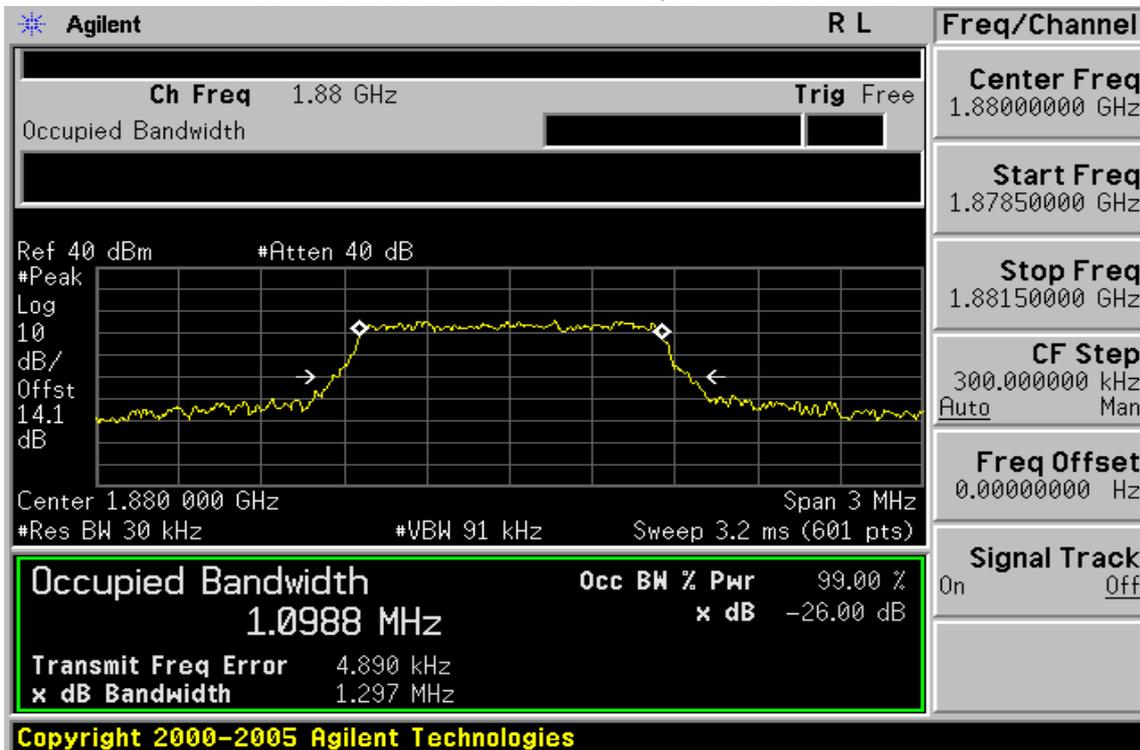
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1.4MHz BW LTE-Band 2 16QAM Channel Low



1.4MHz BW LTE-Band 2 16QAM Channel Mid



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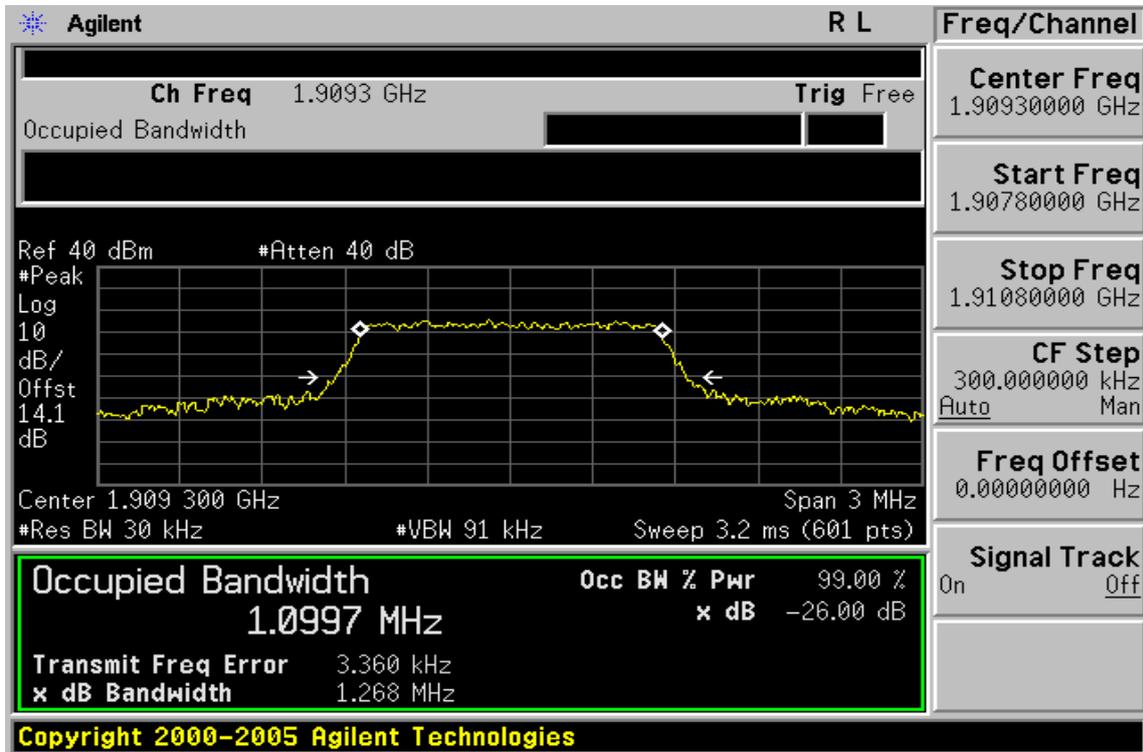
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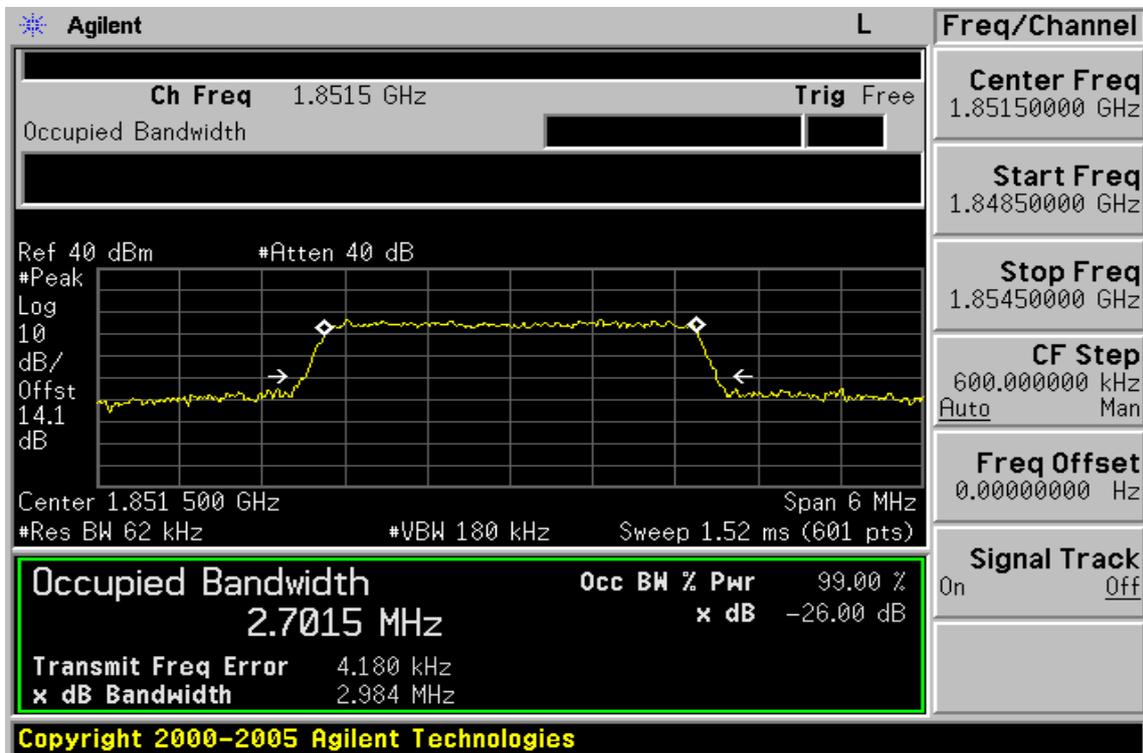
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1.4MHz BW LTE-Band 2 16QAM Channel High



3MHz BW LTE-Band 2 QPSK Channel Low



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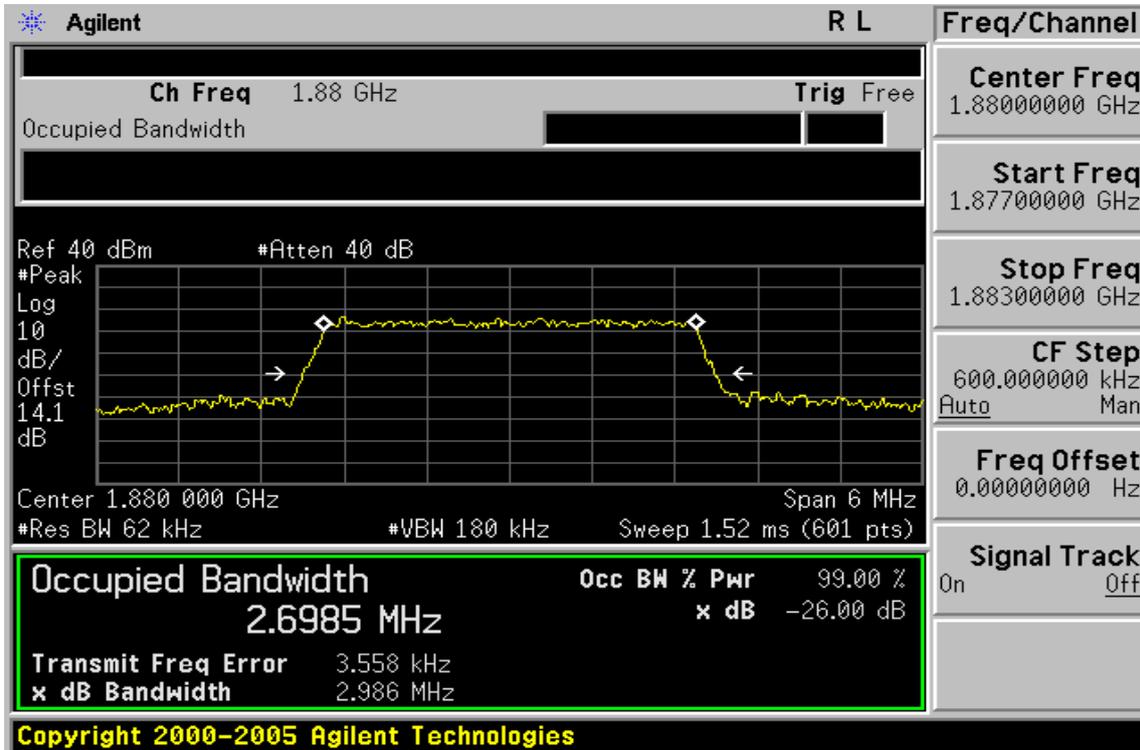
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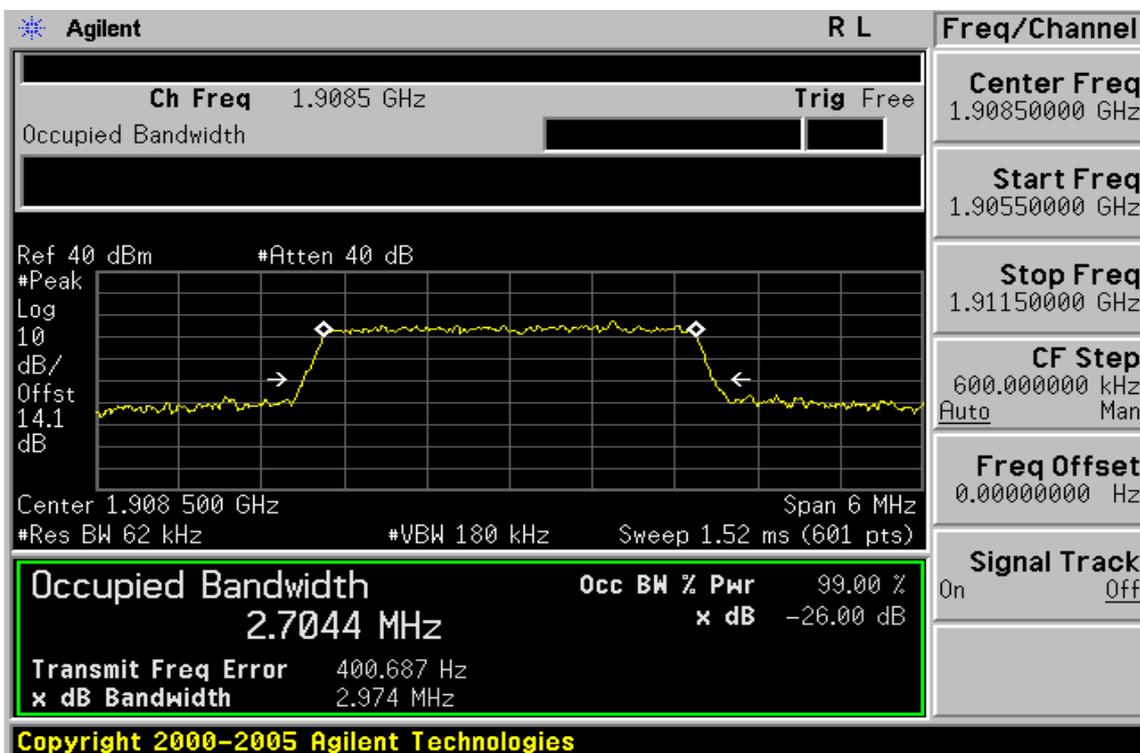
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3MHz BW LTE-Band 2 QPSK Channel Mid



3MHz BW LTE-Band 2 QPSK Channel High



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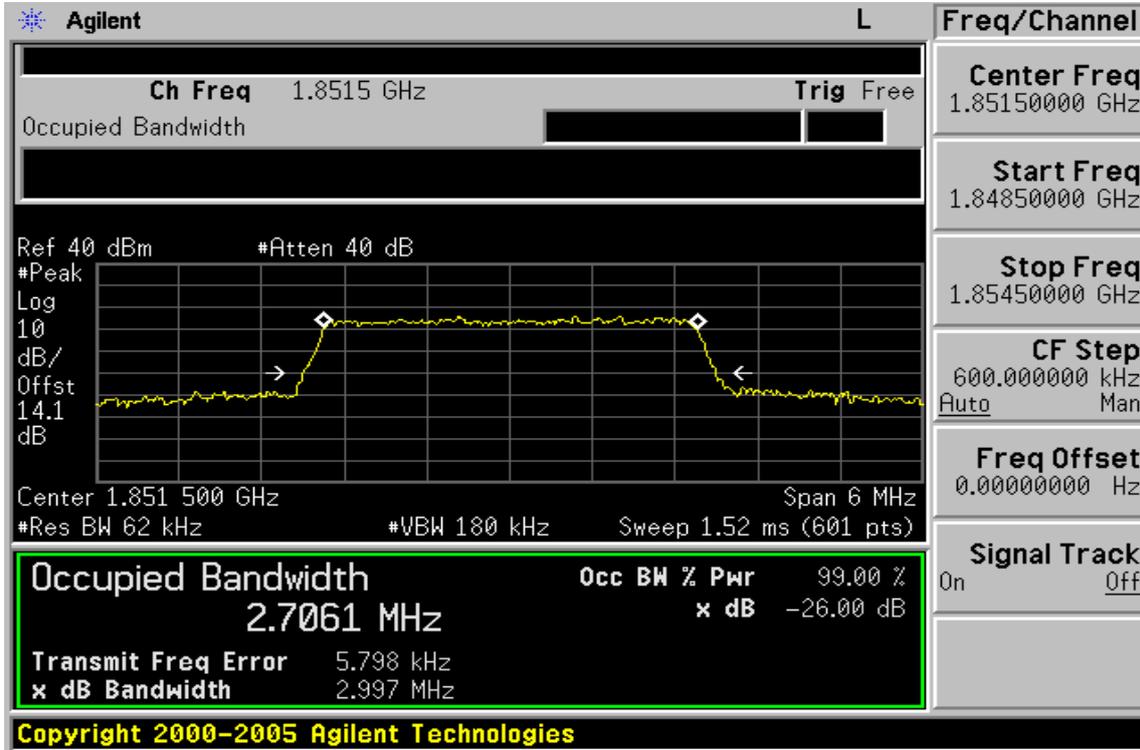
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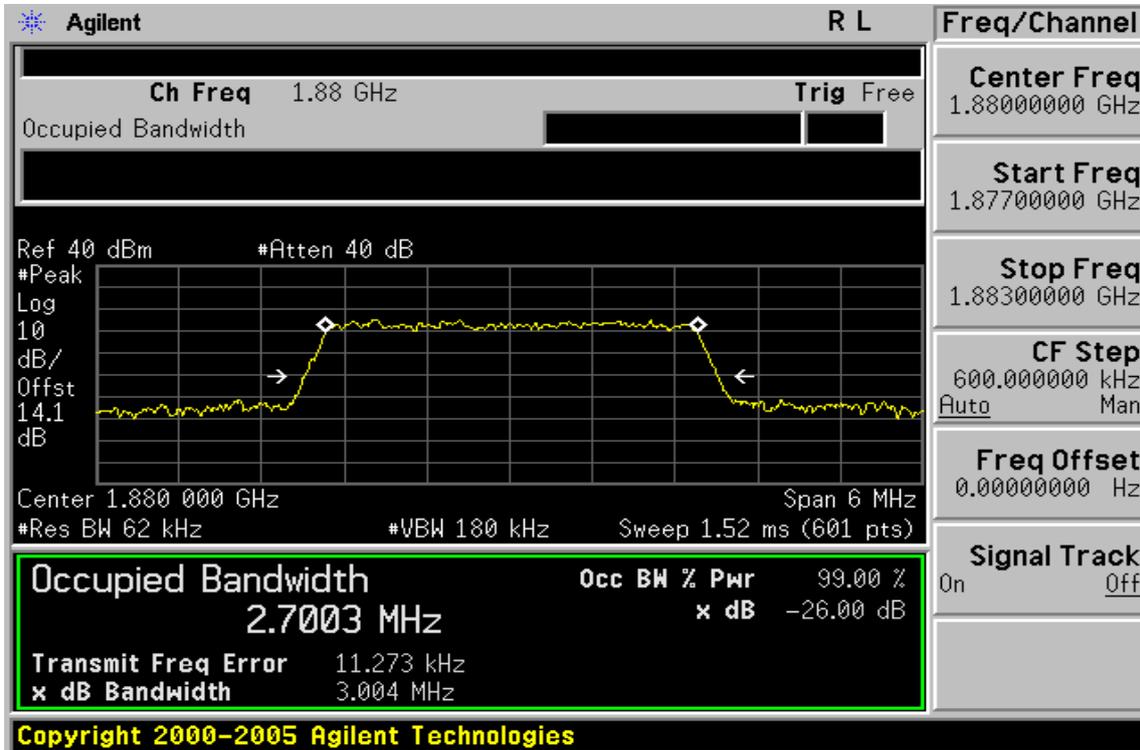
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3MHz BW LTE-Band 2 16QAM Channel Low



3MHz BW LTE-Band 2 16QAM Channel Mid



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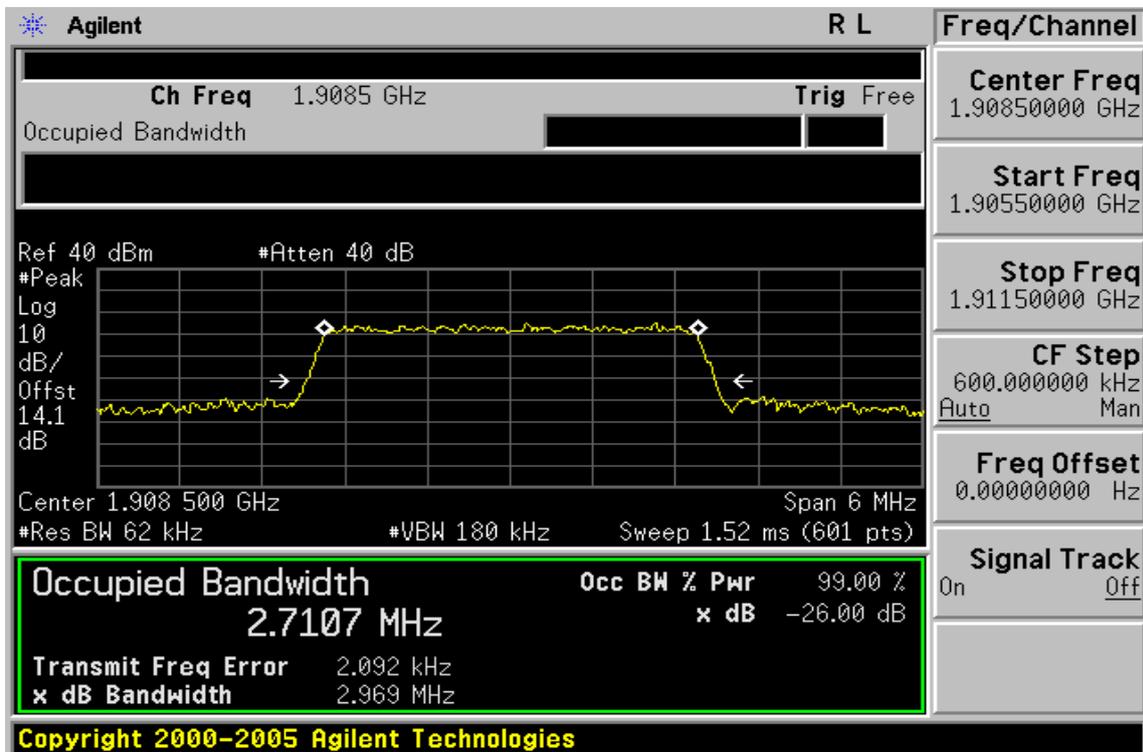
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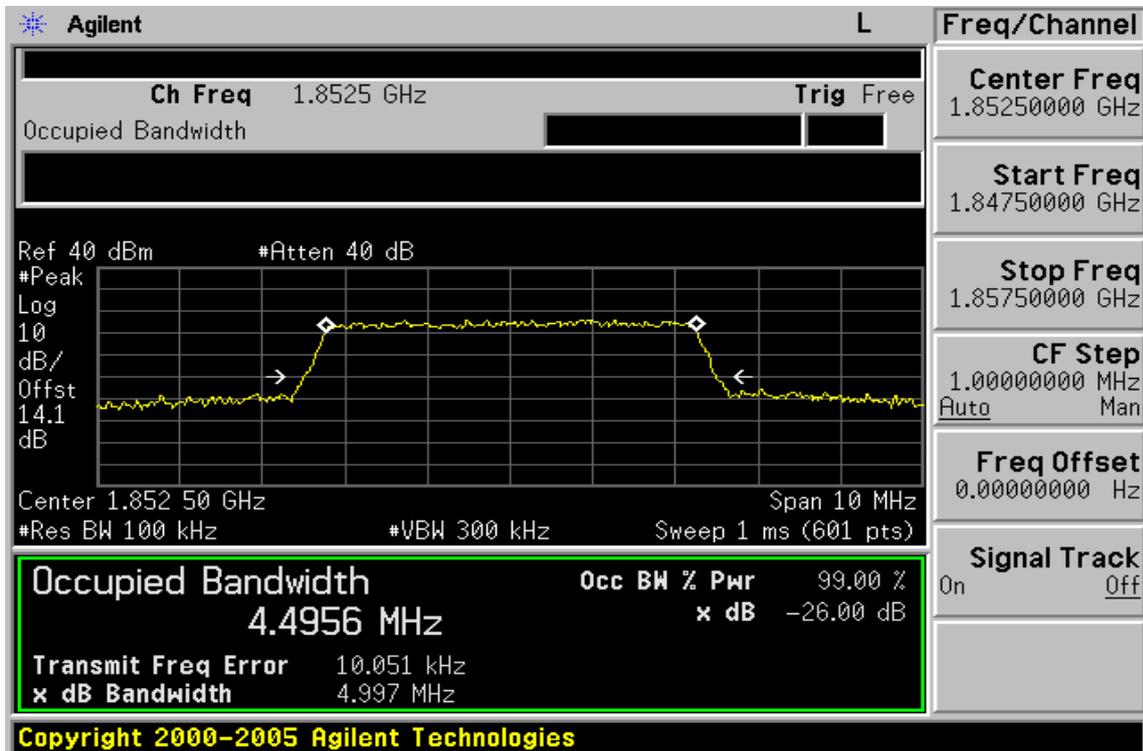
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3MHz BW LTE-Band 2 16QAM Channel High



5MHz BW LTE-Band 2 QPSK Channel Low



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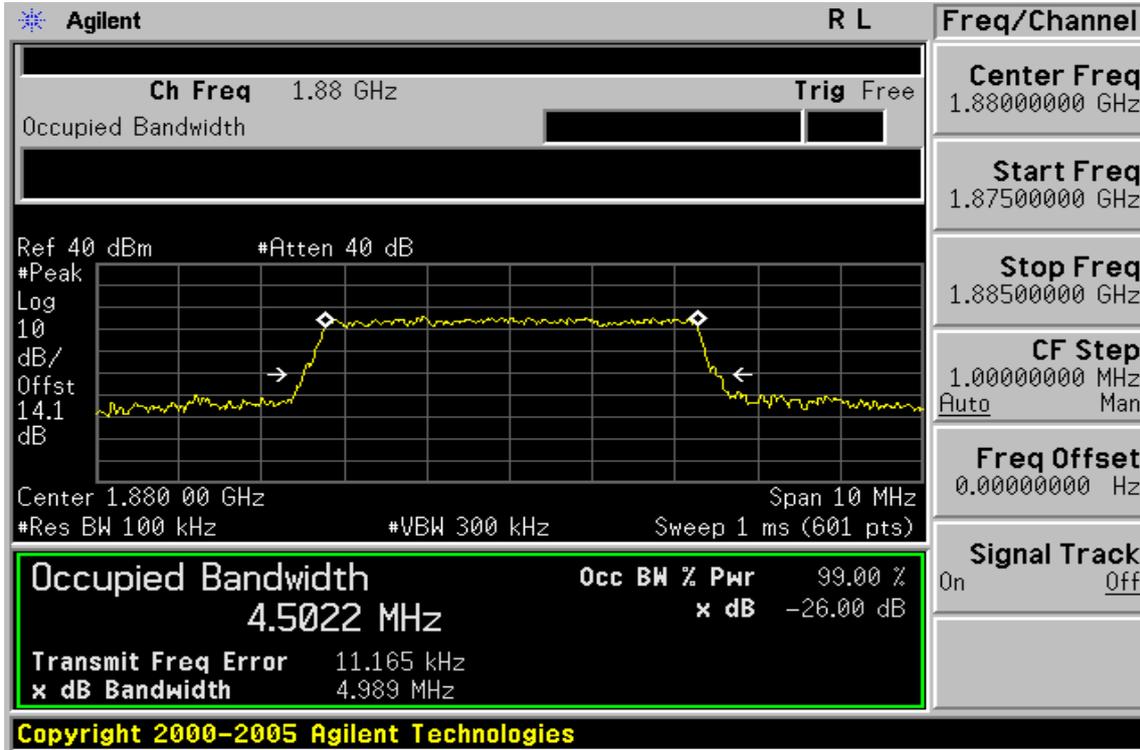
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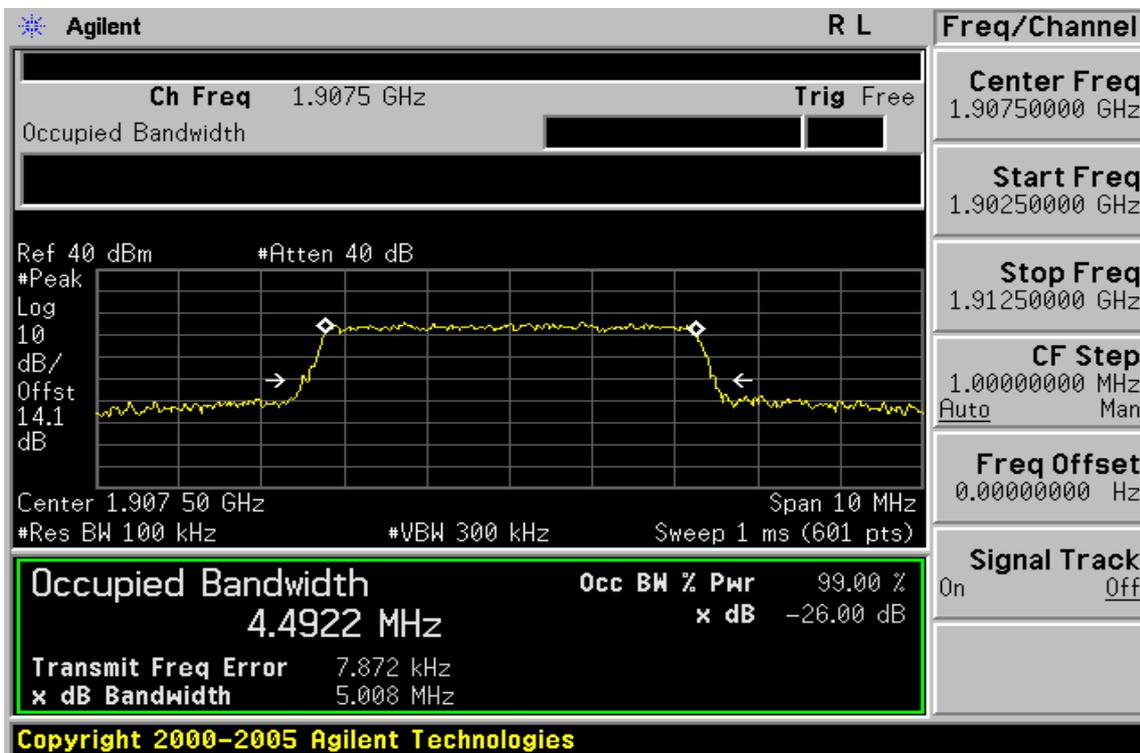
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5MHz BW LTE-Band 2 QPSK Channel Mid



5MHz BW LTE-Band 2 QPSK Channel High



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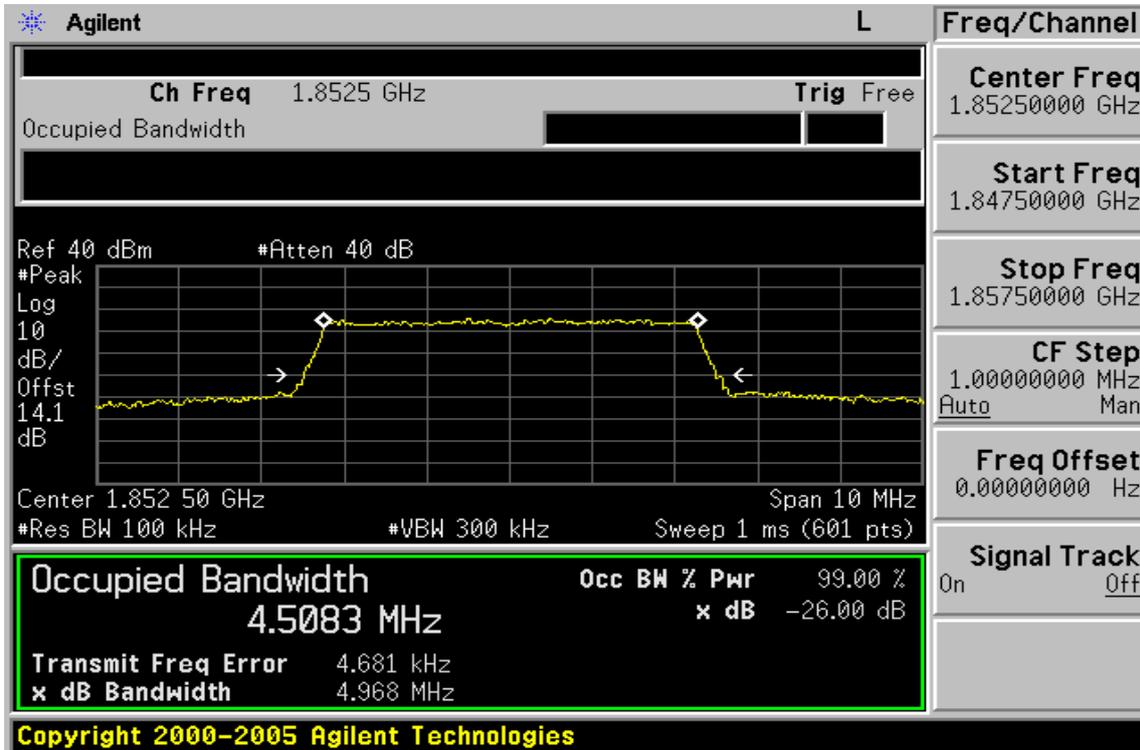
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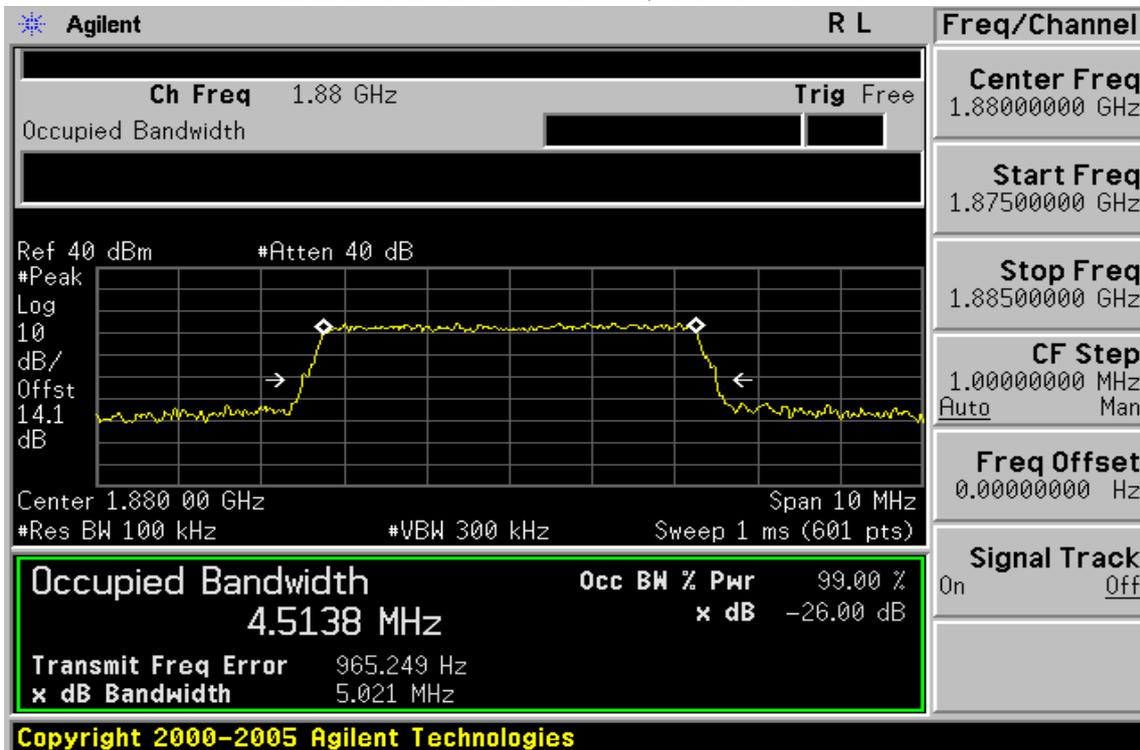
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5MHz BW LTE-Band 2 16QAM Channel Low



5MHz BW LTE-Band 2 16QAM Channel Mid



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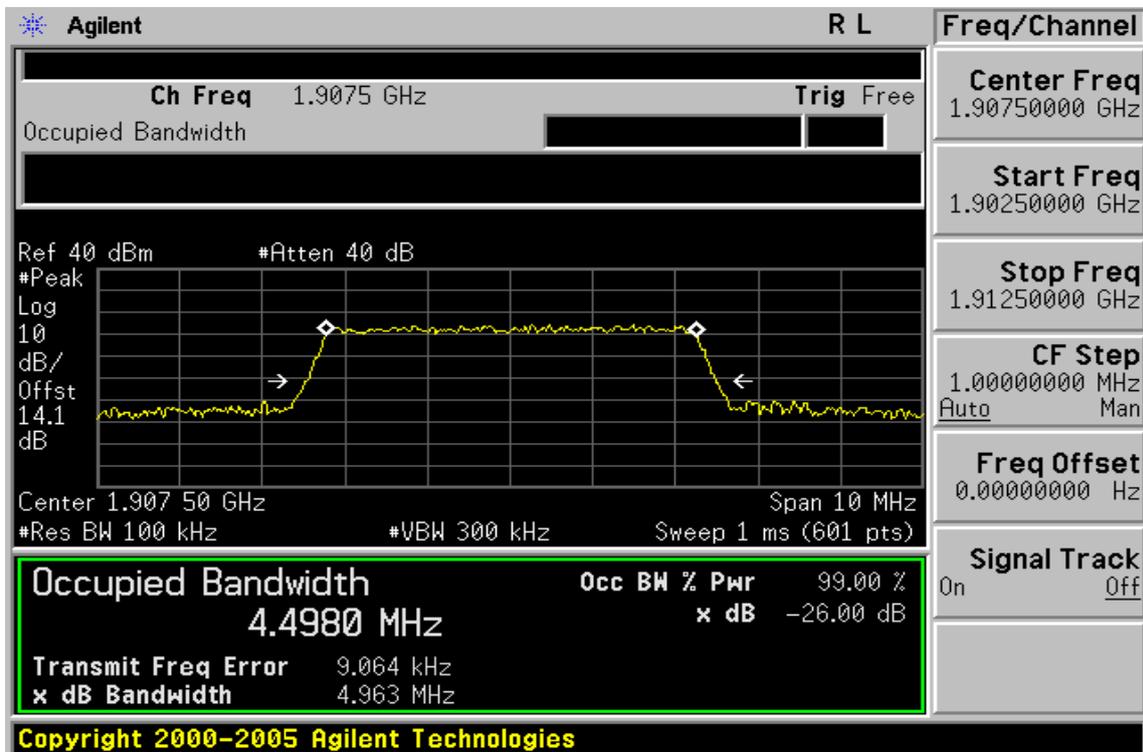
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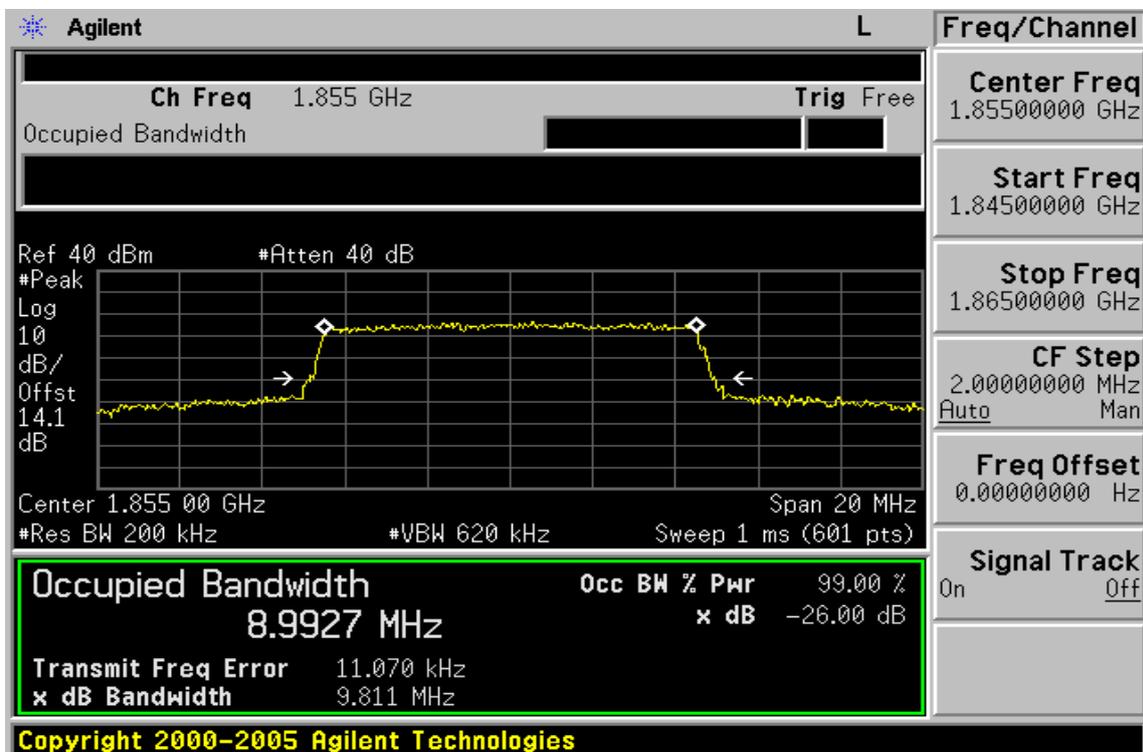
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5MHz BW LTE-Band 2 16QAM Channel High



10MHz BW LTE-Band 2 QPSK Channel Low



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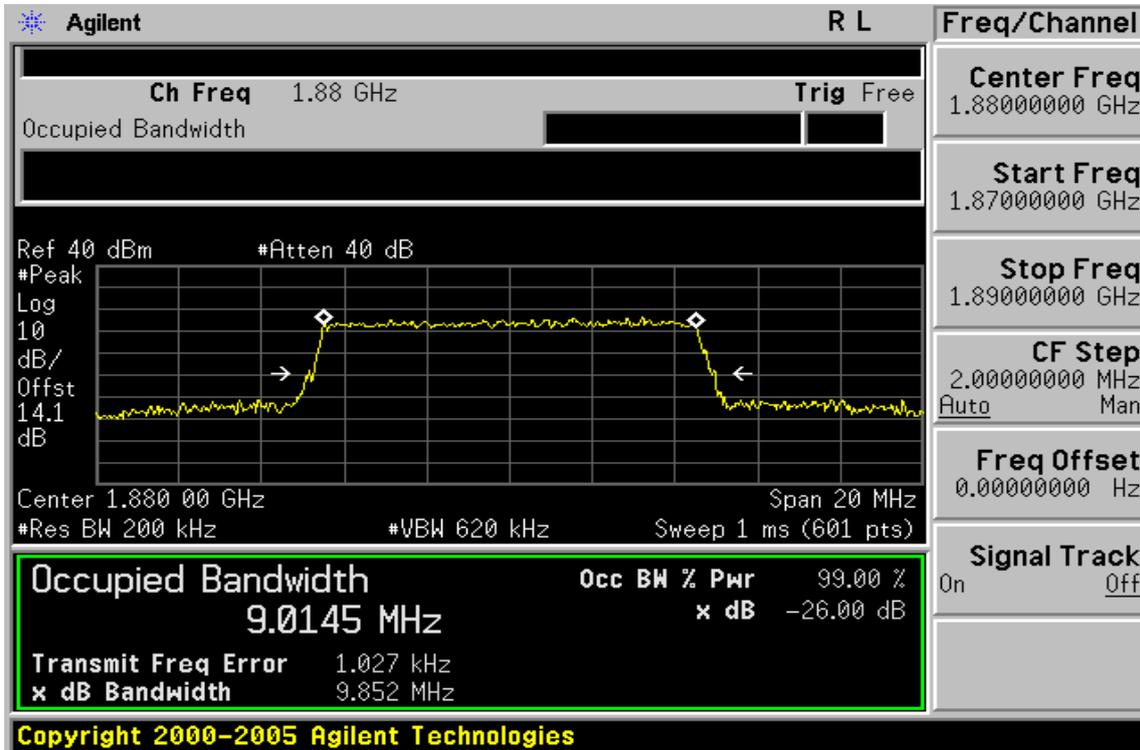
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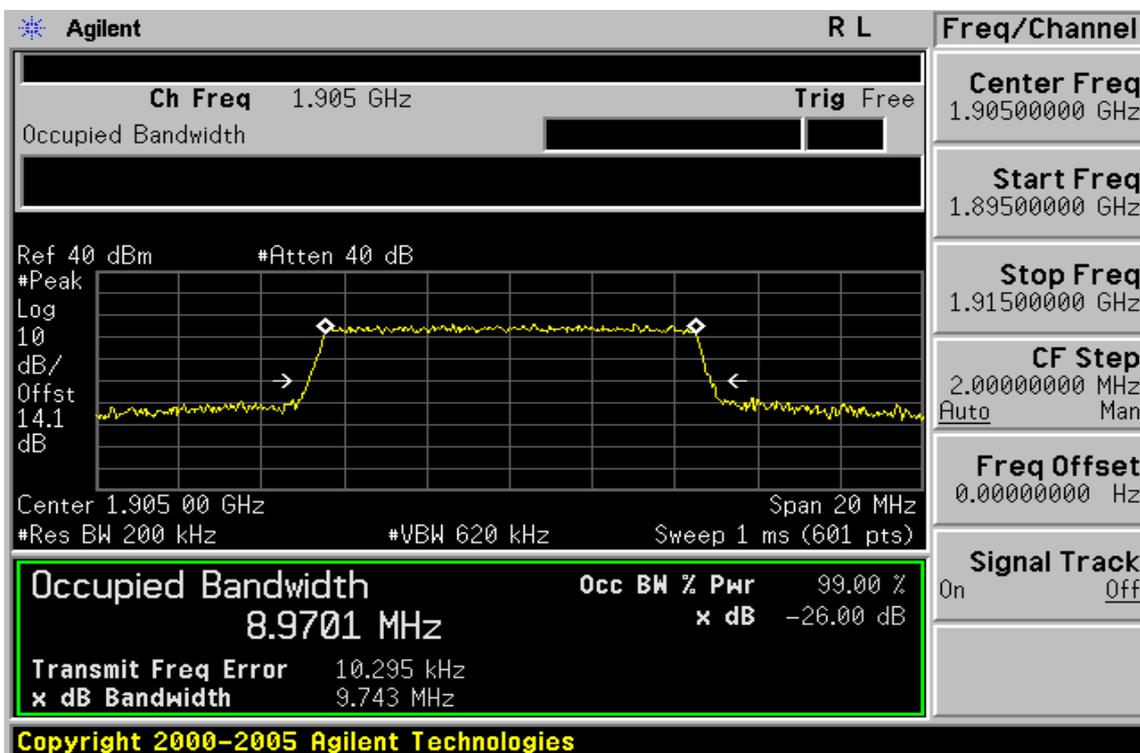
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10MHz BW LTE-Band 2 QPSK Channel Mid



10MHz BW LTE-Band 2 QPSK Channel High



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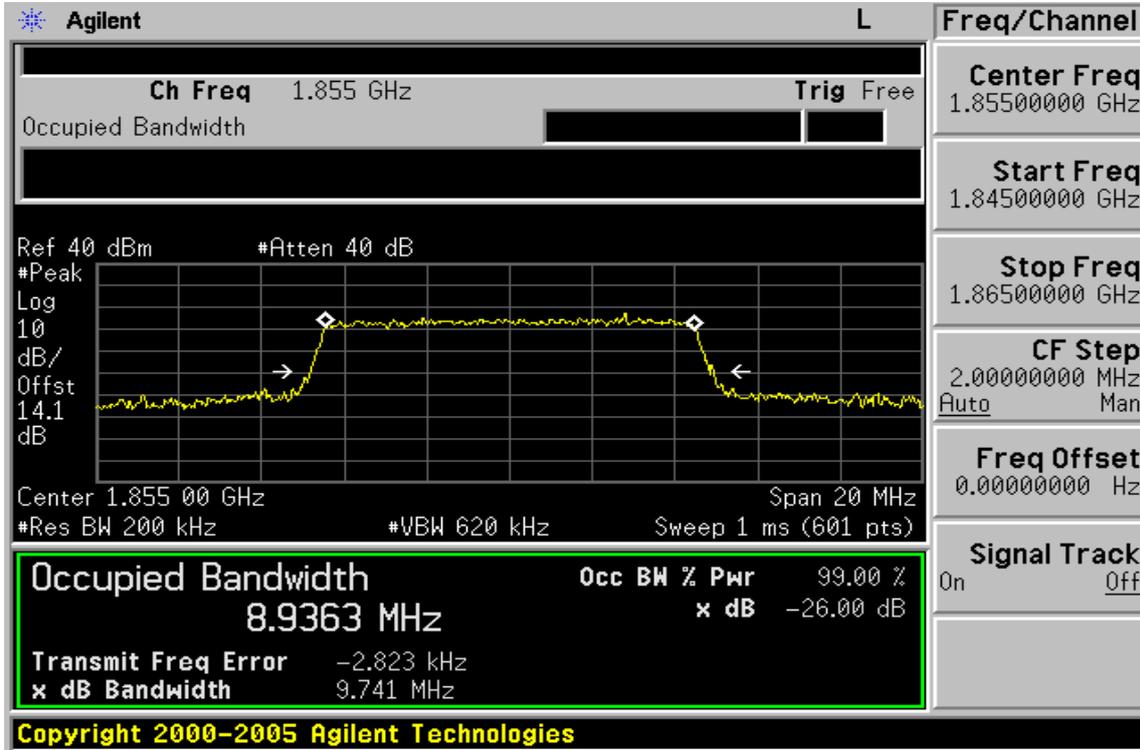
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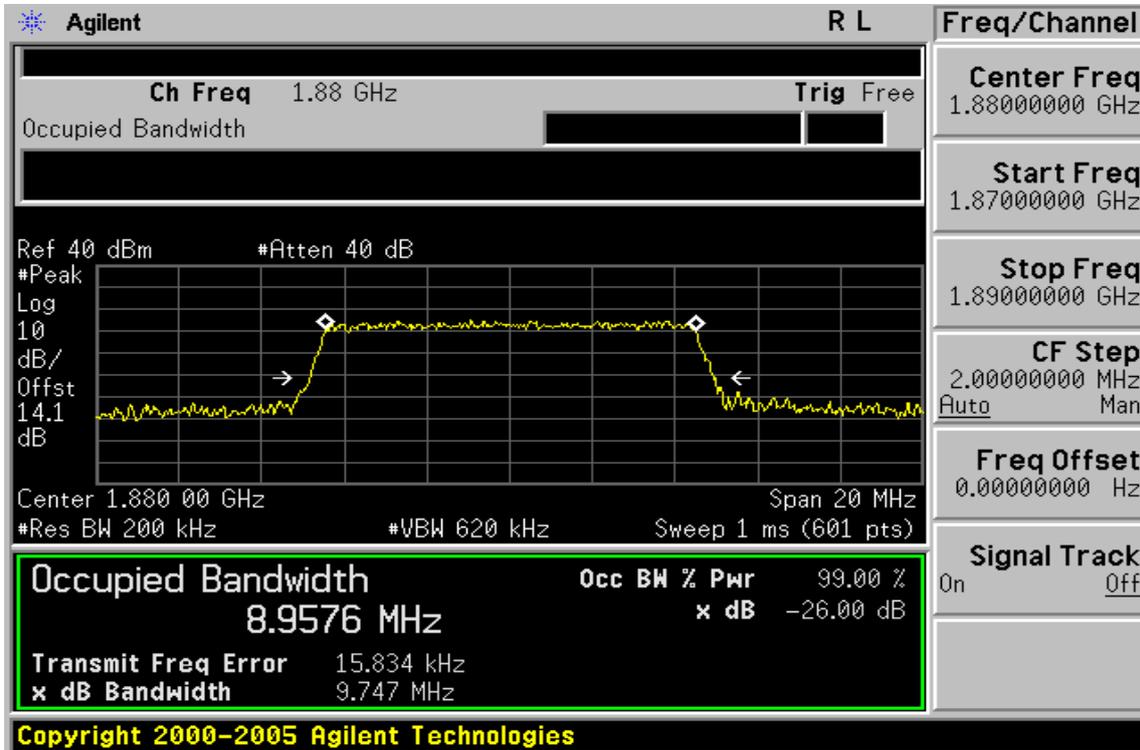
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10MHz BW LTE-Band 2 16QAM Channel Low



10MHz BW LTE-Band 2 16QAM Channel Mid



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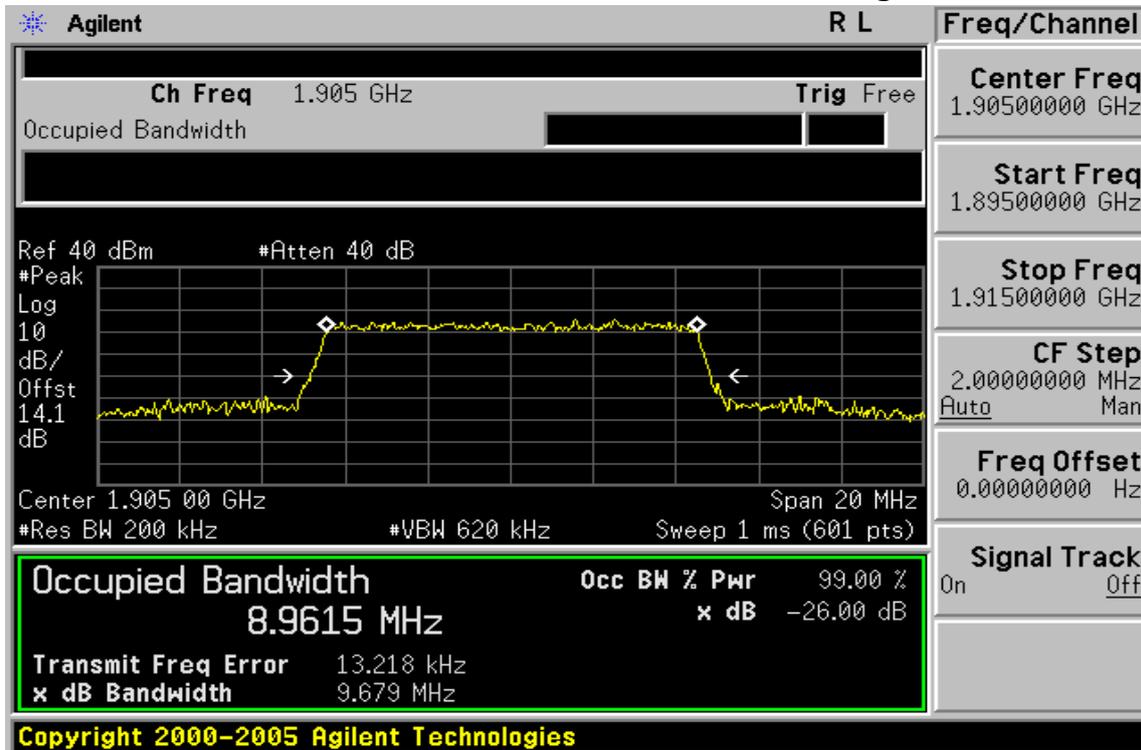
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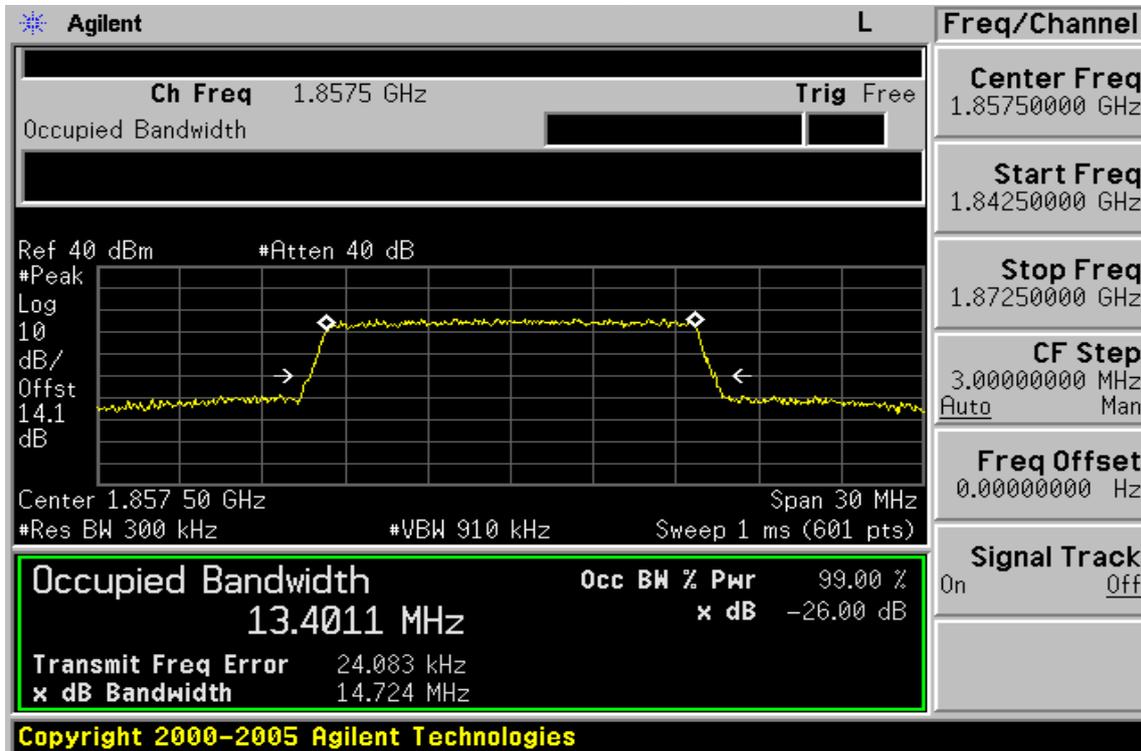
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10MHz BW LTE-Band 2 16QAM Channel High



15MHz BW LTE-Band 2 QPSK Channel Low



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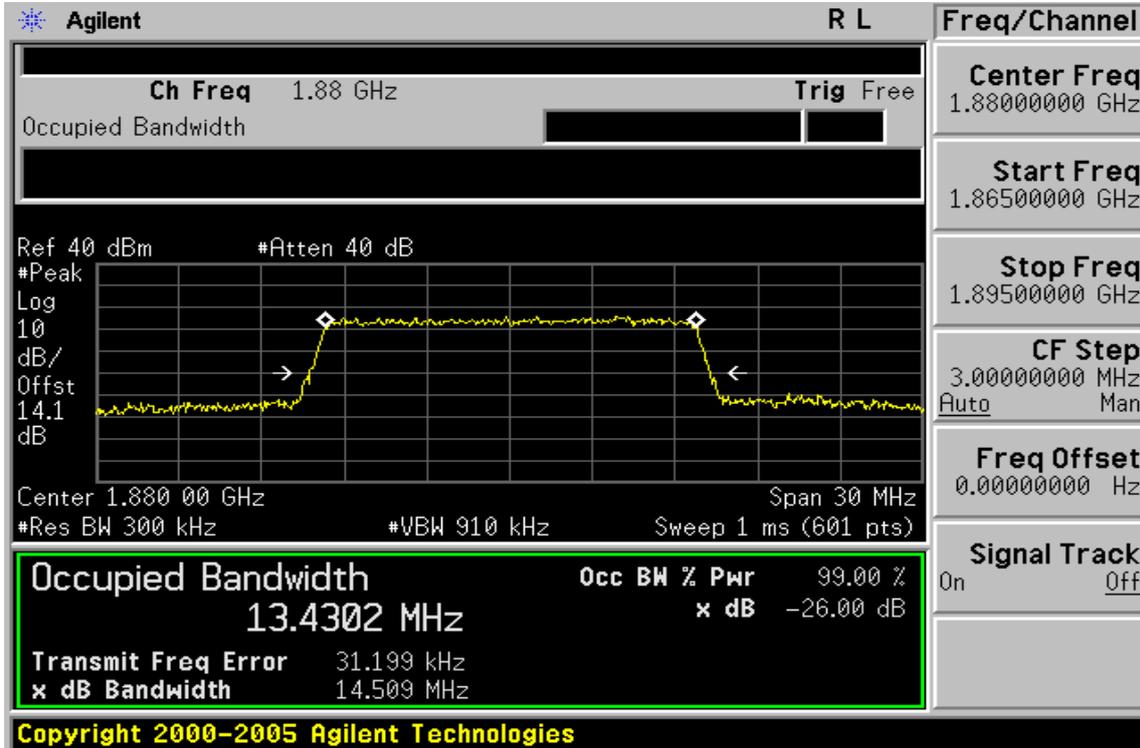
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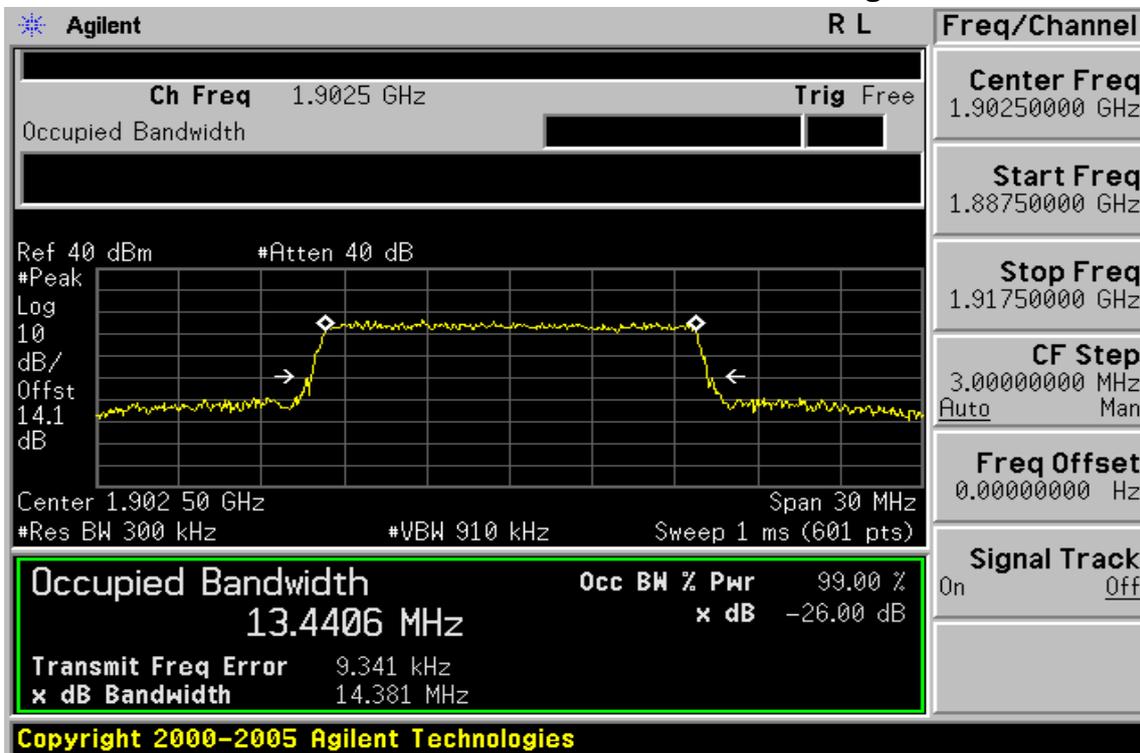
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15MHz BW LTE-Band 2 QPSK Channel Mid



15MHz BW LTE-Band 2 QPSK Channel High



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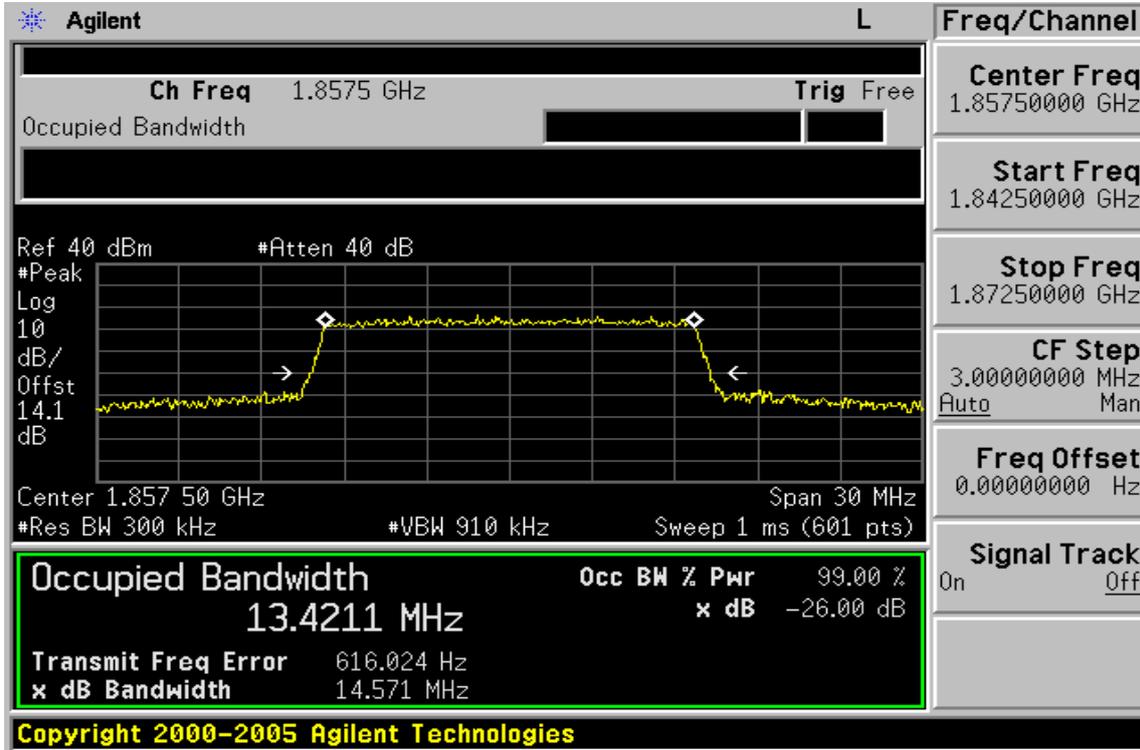
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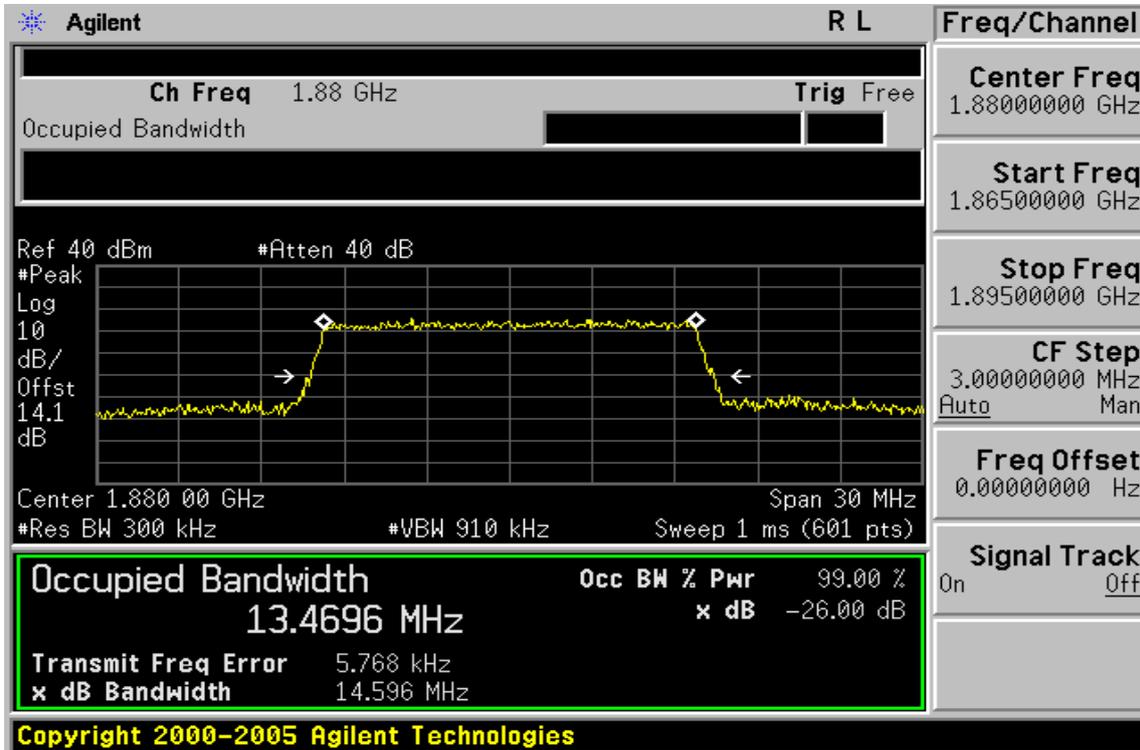
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15MHz BW LTE-Band 2 16QAM Channel Low



15MHz BW LTE-Band 2 16QAM Channel Mid



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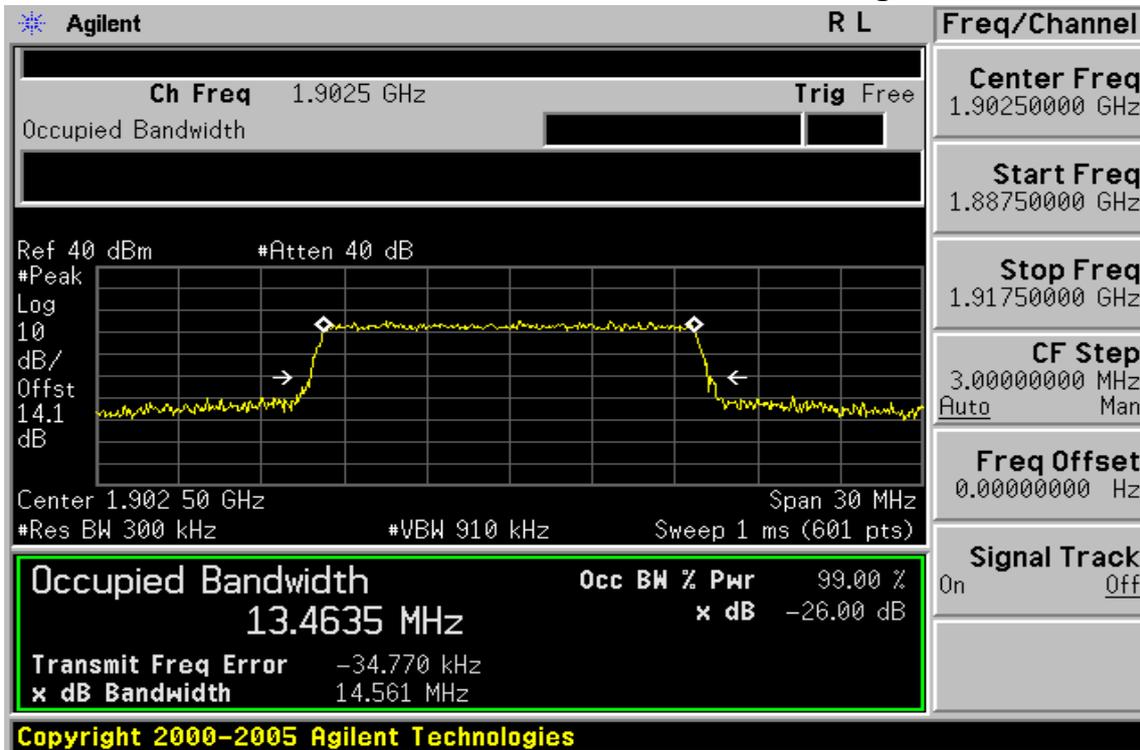
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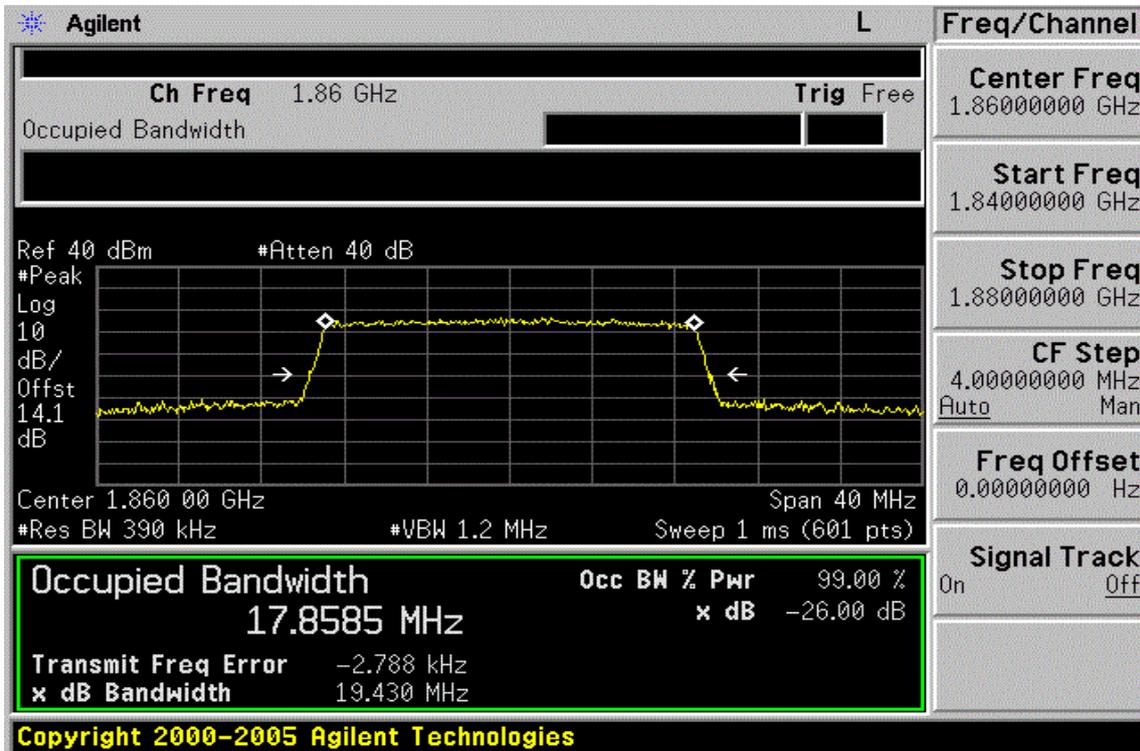
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15MHz BW LTE-Band 2 16QAM Channel High



20MHz BW LTE-Band 2 QPSK Channel Low



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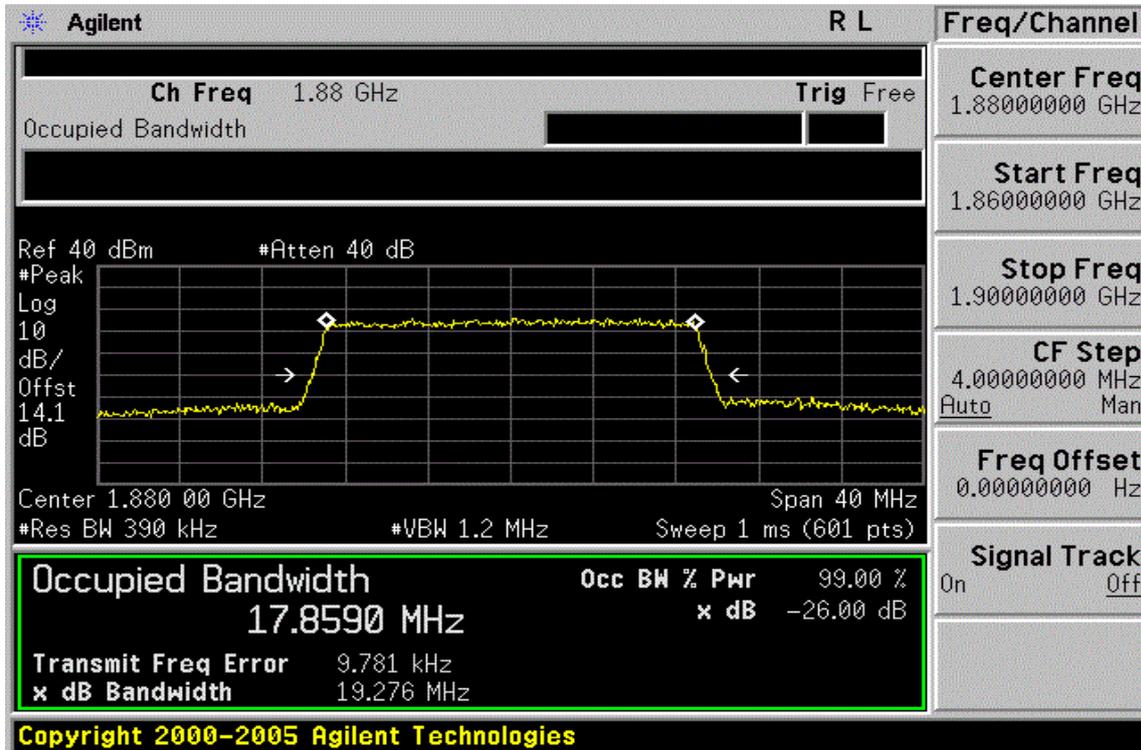
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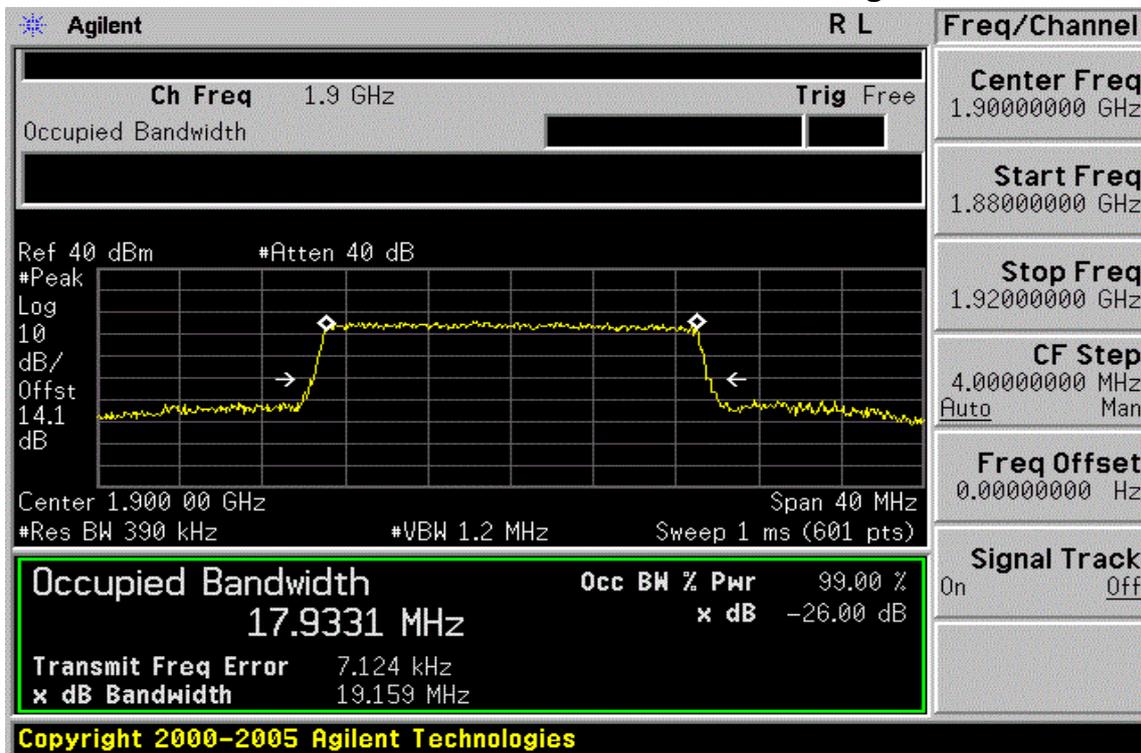
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20MHz BW LTE-Band 2 QPSK Channel Mid



20MHz BW LTE-Band 2 QPSK Channel High



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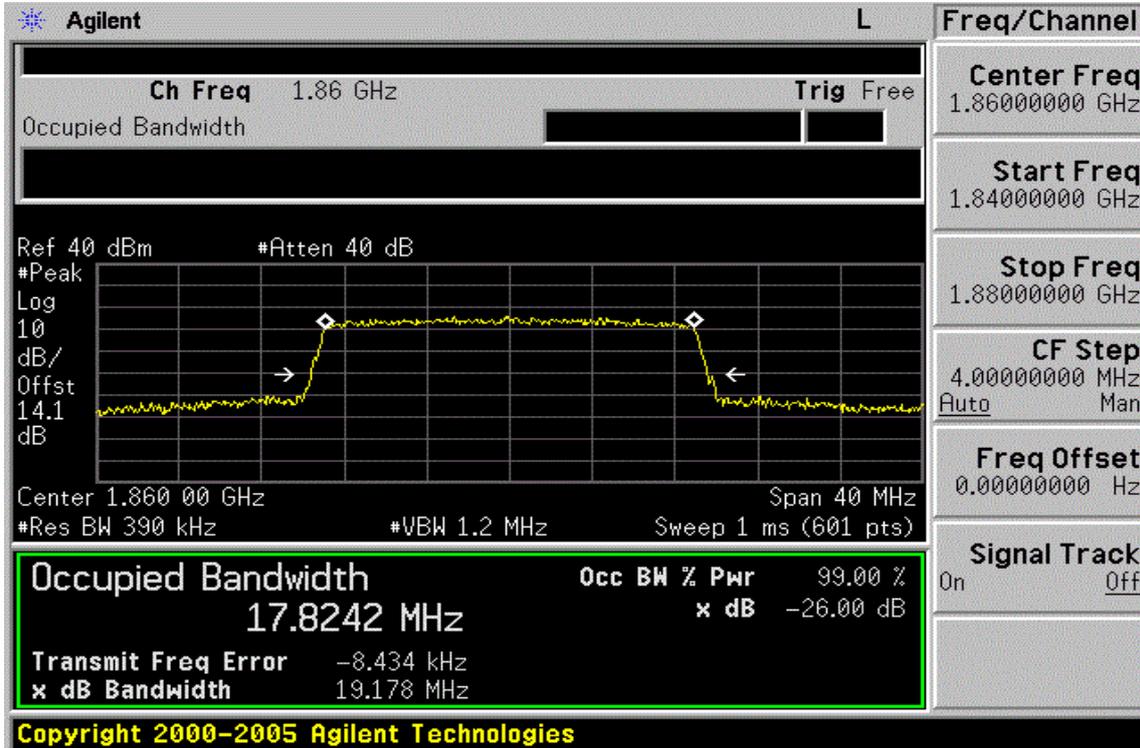
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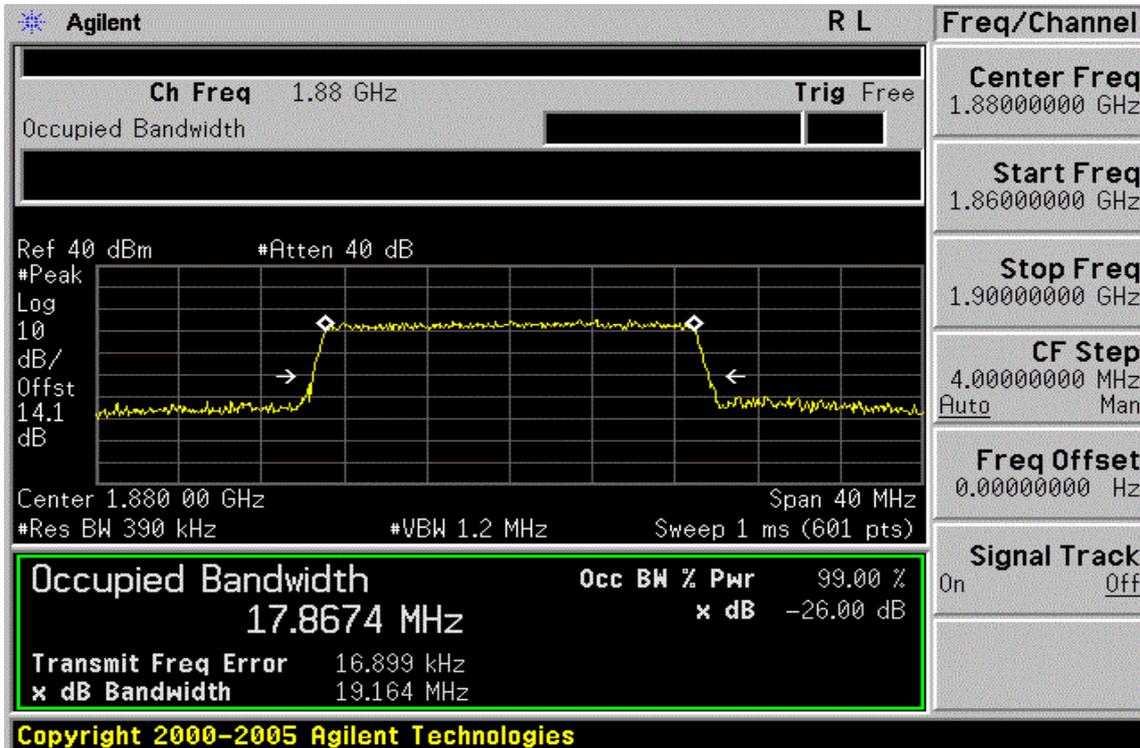
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20MHz BW LTE-Band 2 16QAM Channel Low



20MHz BW LTE-Band 2 16QAM Channel Mid



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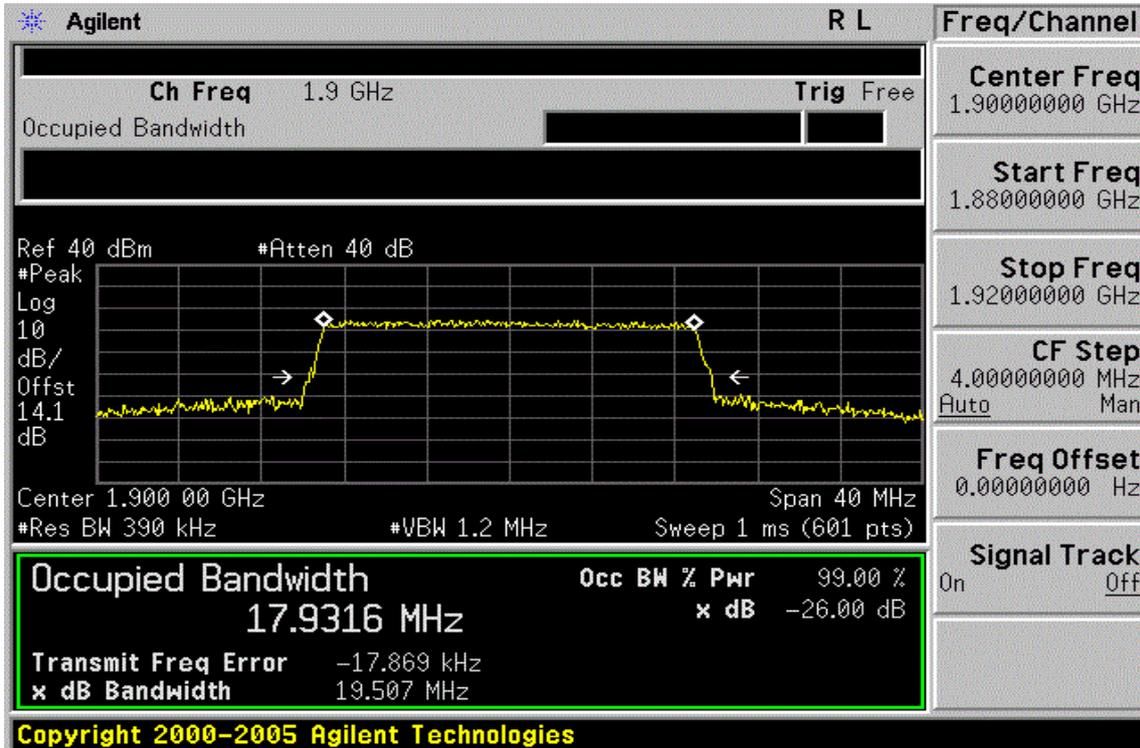
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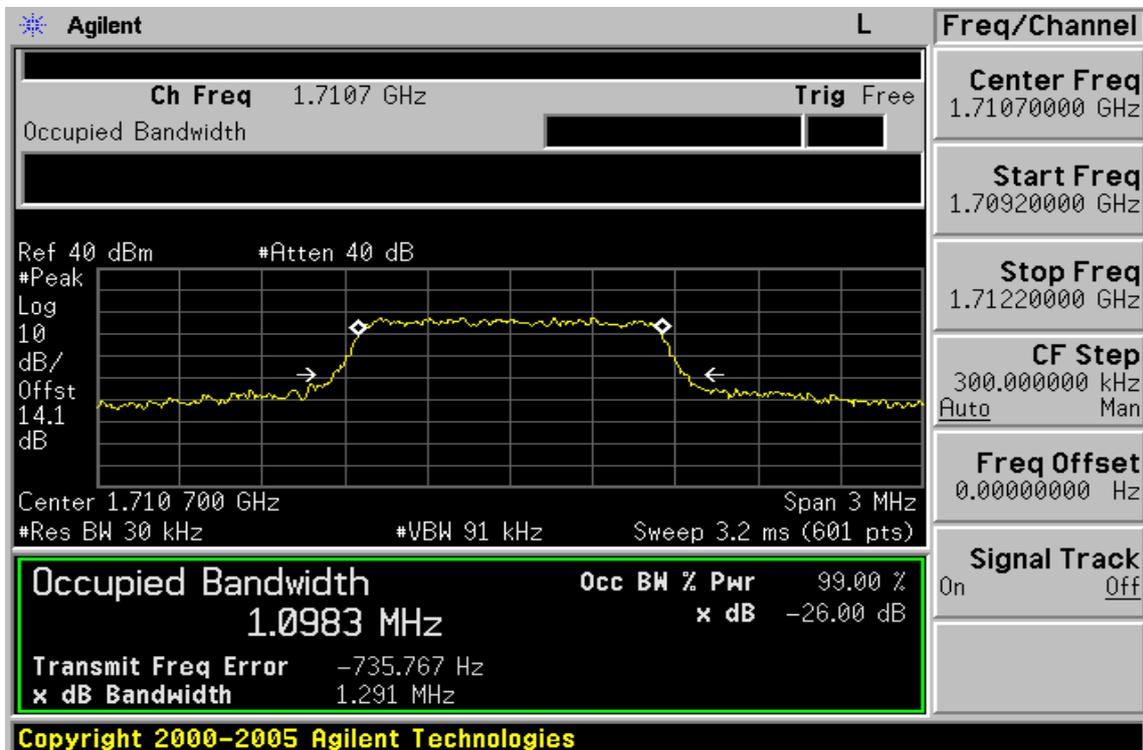
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20MHz BW LTE-Band 2 16QAM Channel High



1.4MHz BW LTE-Band 4 QPSK Channel Low



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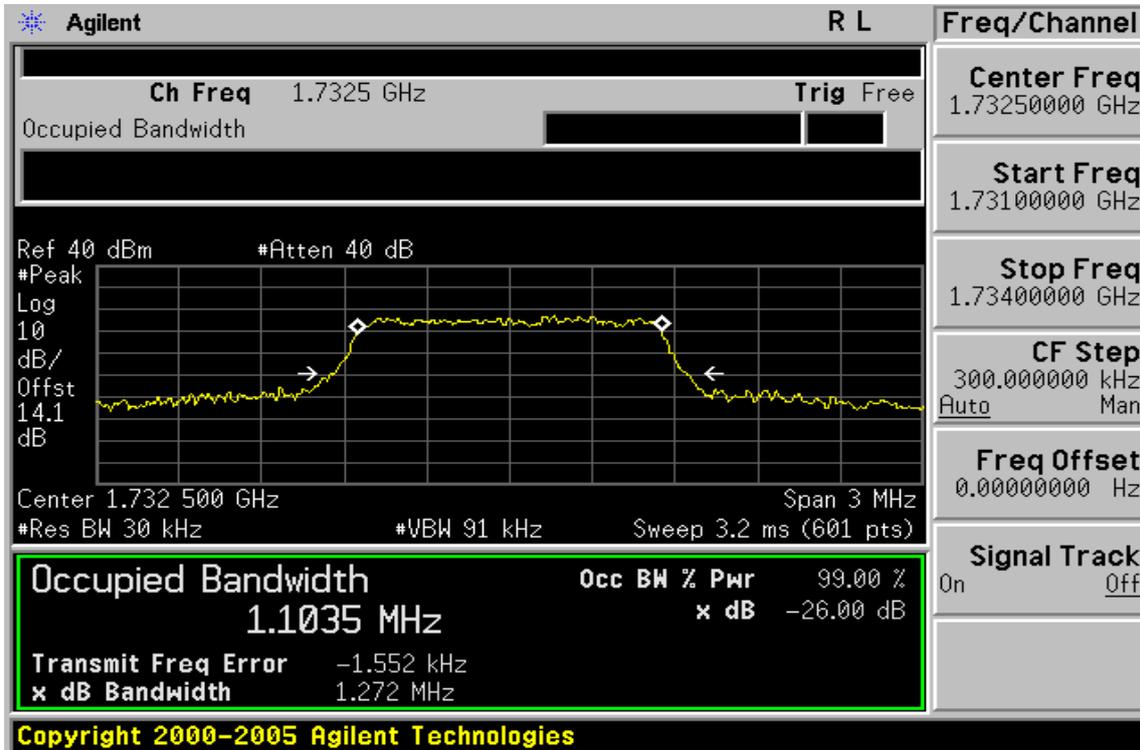
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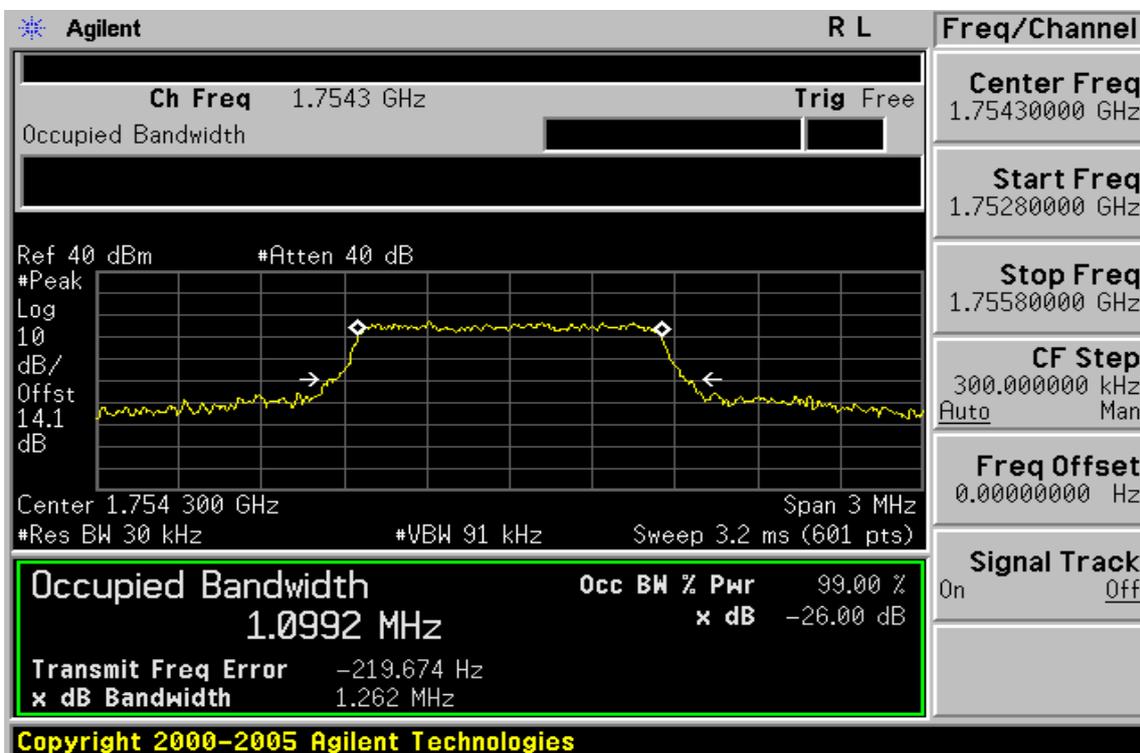
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1.4MHz BW LTE-Band 4 QPSK Channel Mid



1.4MHz BW LTE-Band 4 QPSK Channel High



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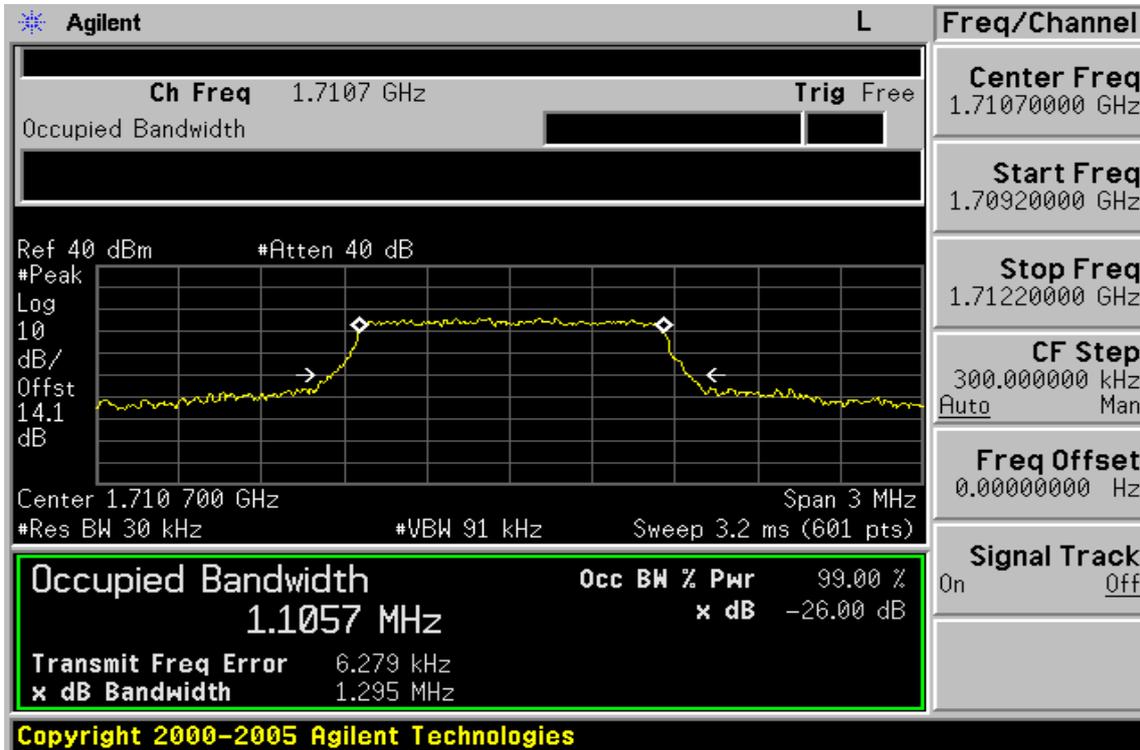
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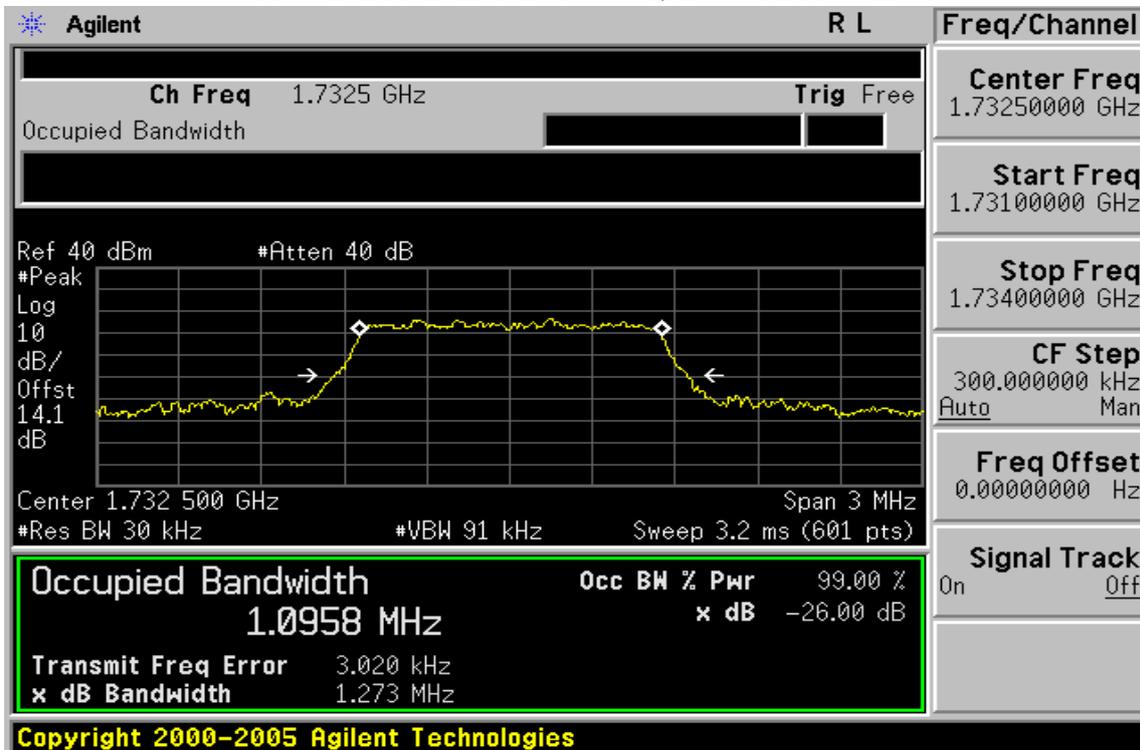
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1.4MHz BW LTE-Band 4 16QAM Channel Low



1.4MHz BW LTE-Band 4 16QAM Channel Mid



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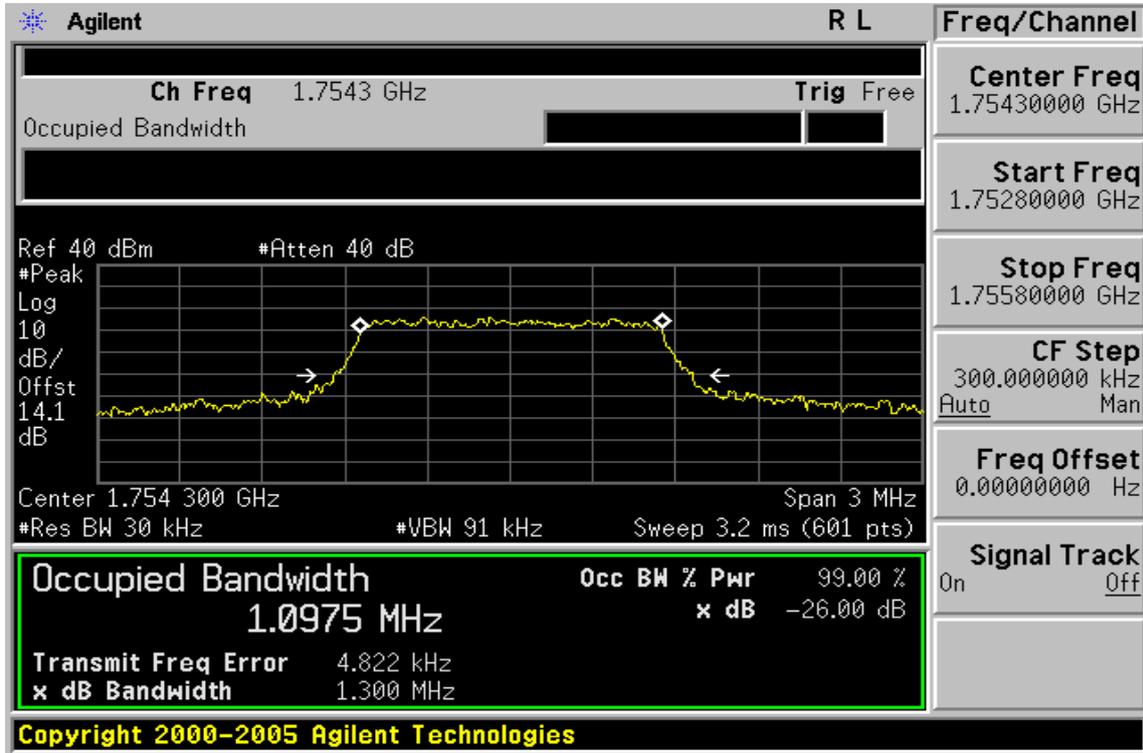
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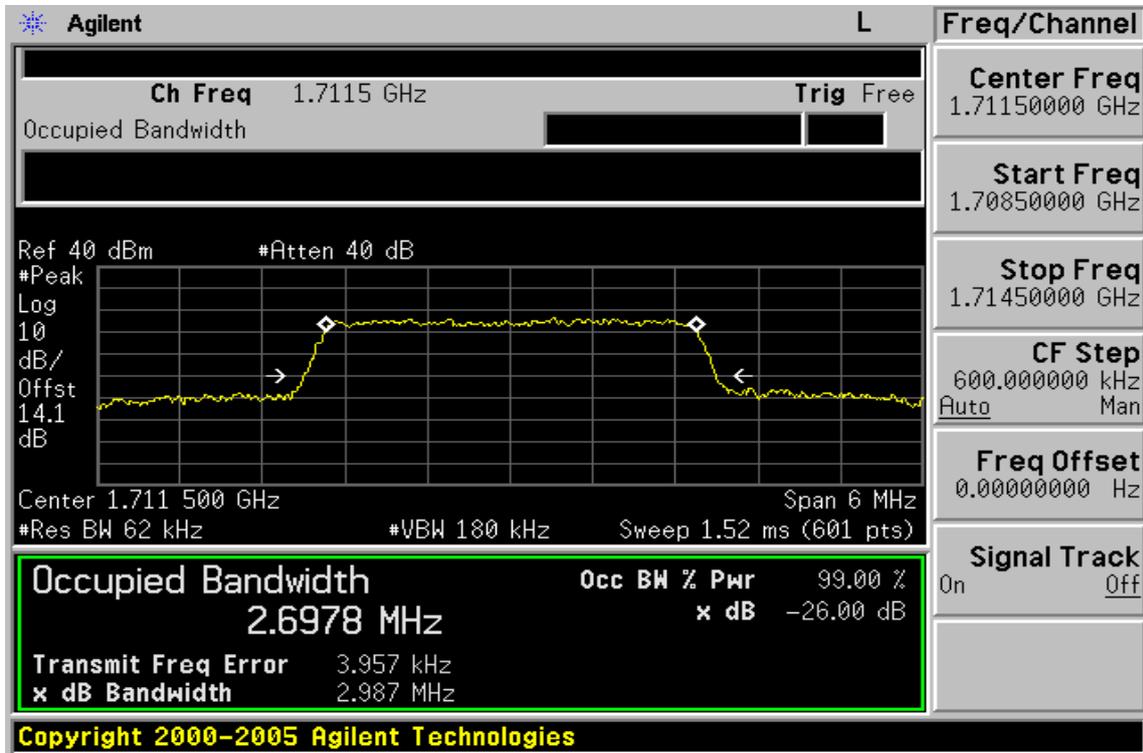
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1.4MHz BW LTE-Band 4 16QAM Channel High



3MHz BW LTE-Band 4 QPSK Channel Low



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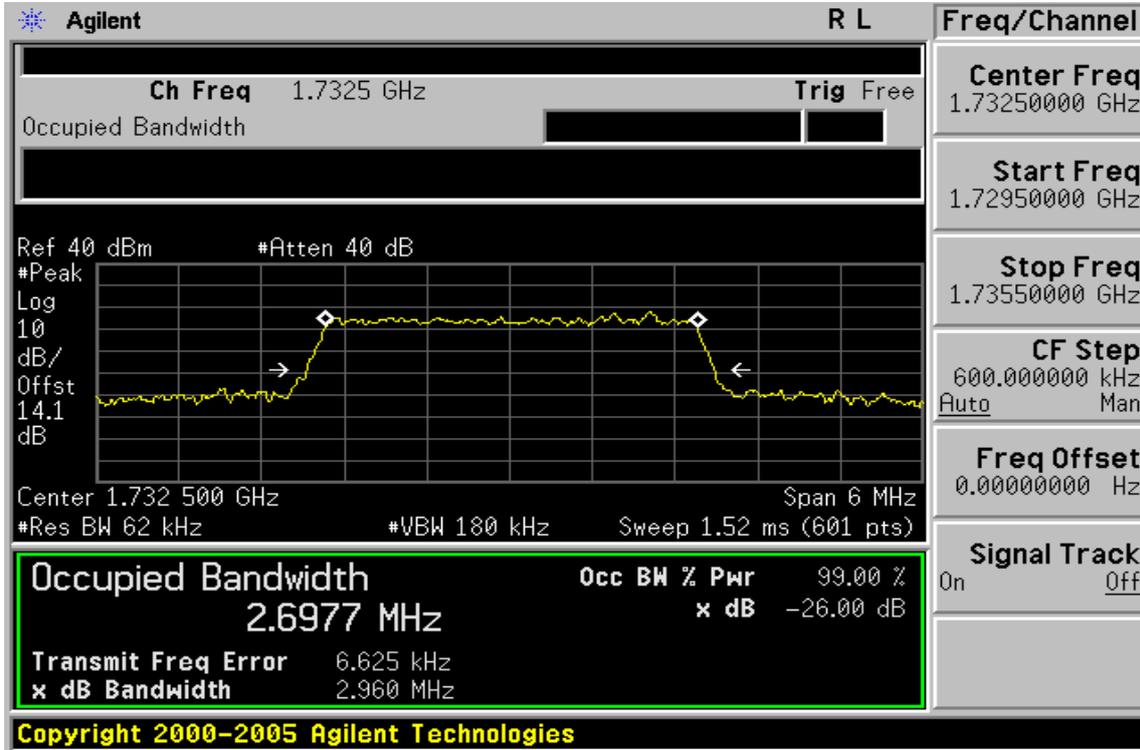
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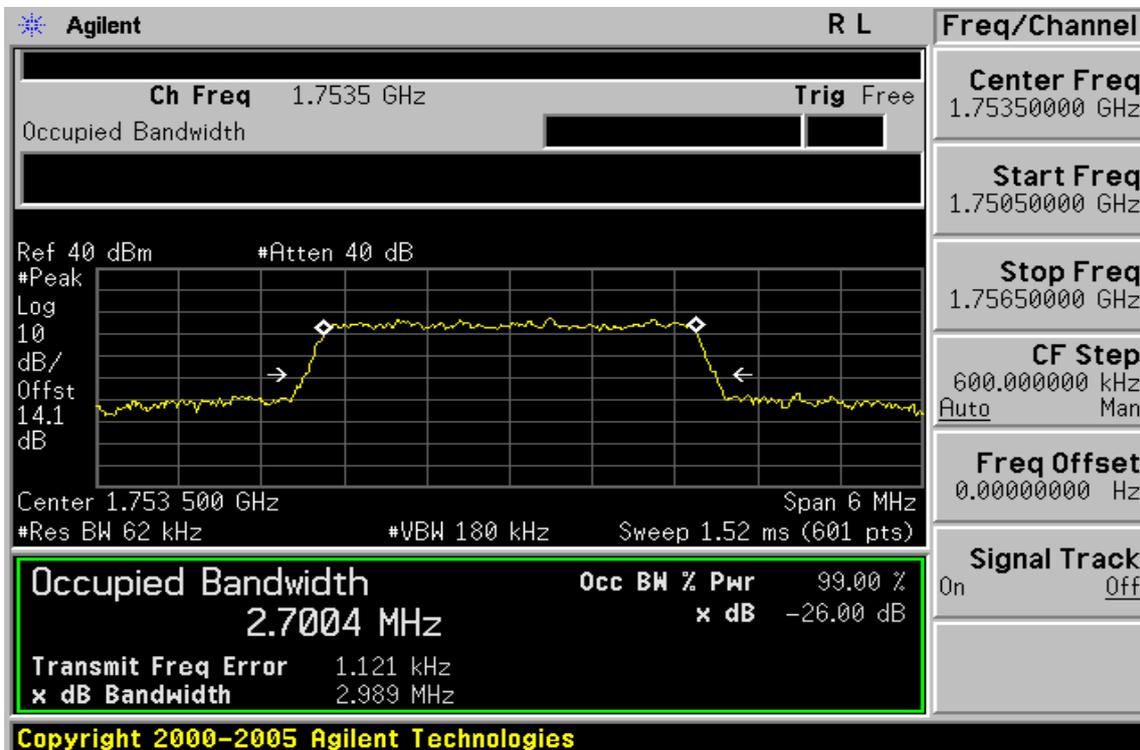
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3MHz BW LTE-Band 4 QPSK Channel Mid



3MHz BW LTE-Band 4 QPSK Channel High



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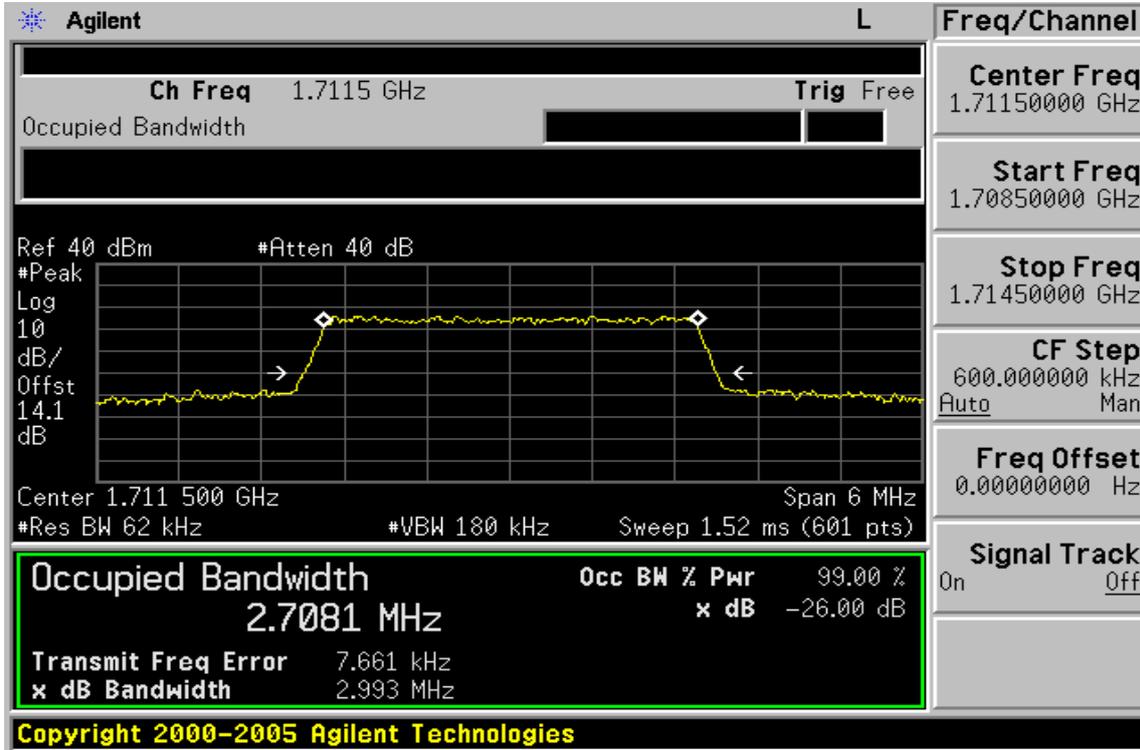
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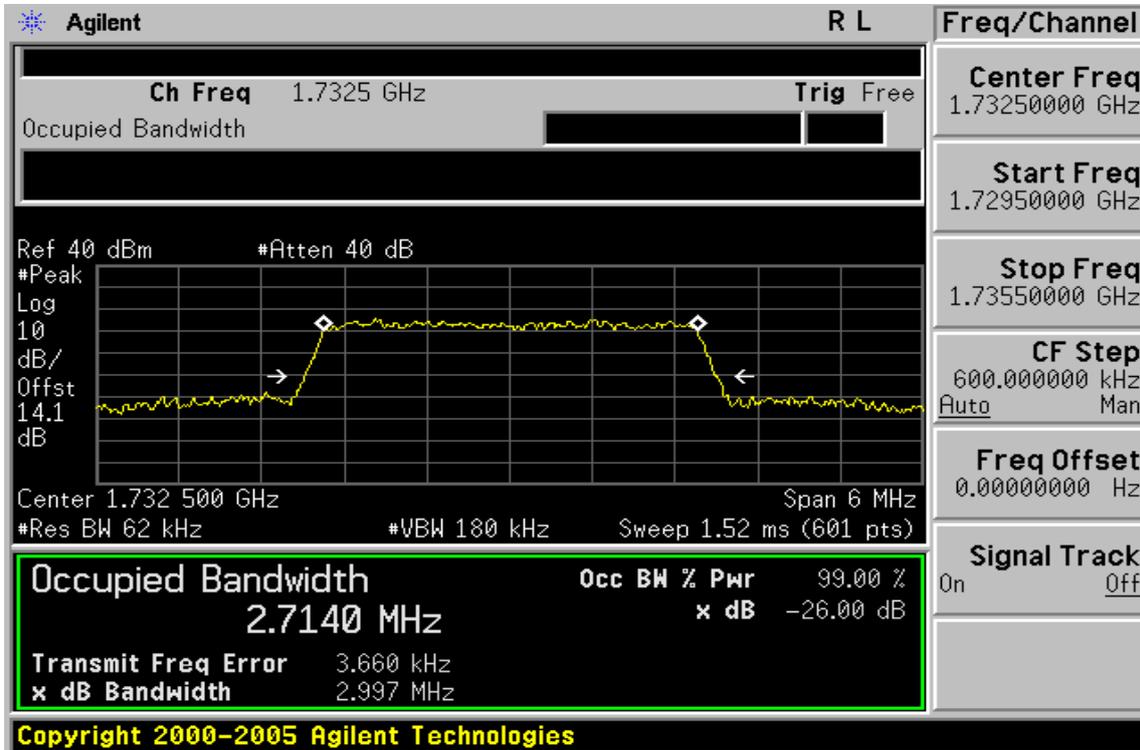
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3MHz BW LTE-Band 4 16QAM Channel Low



3MHz BW LTE-Band 4 16QAM Channel Mid



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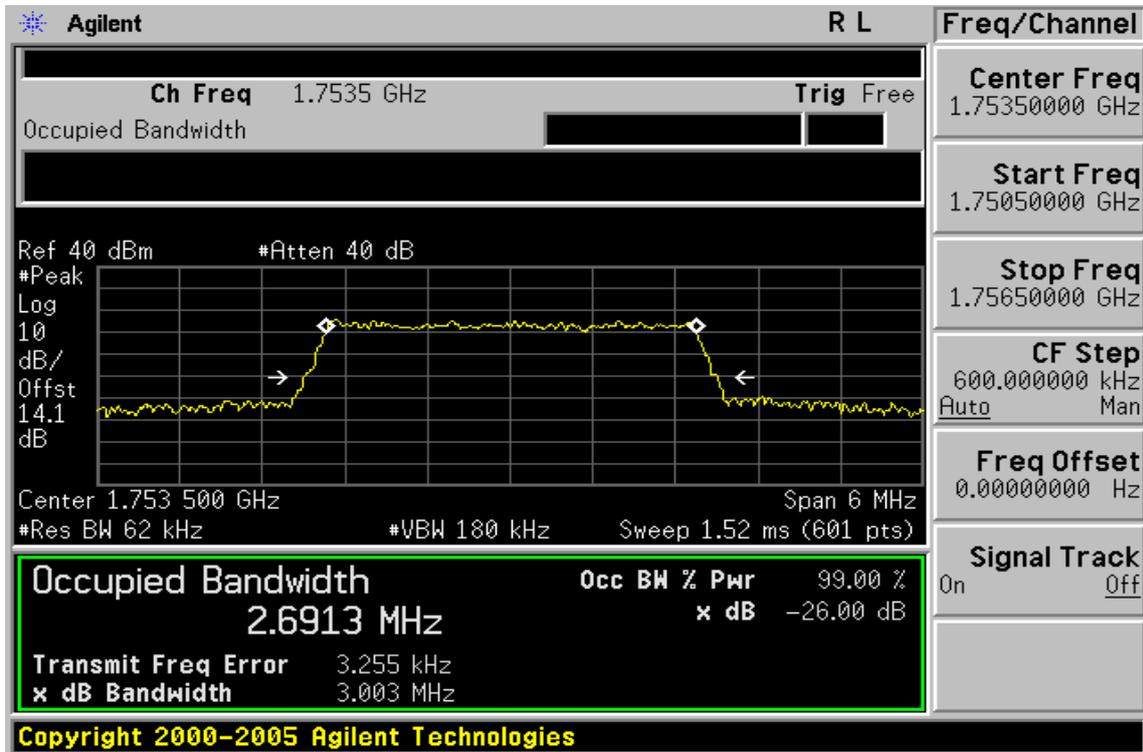
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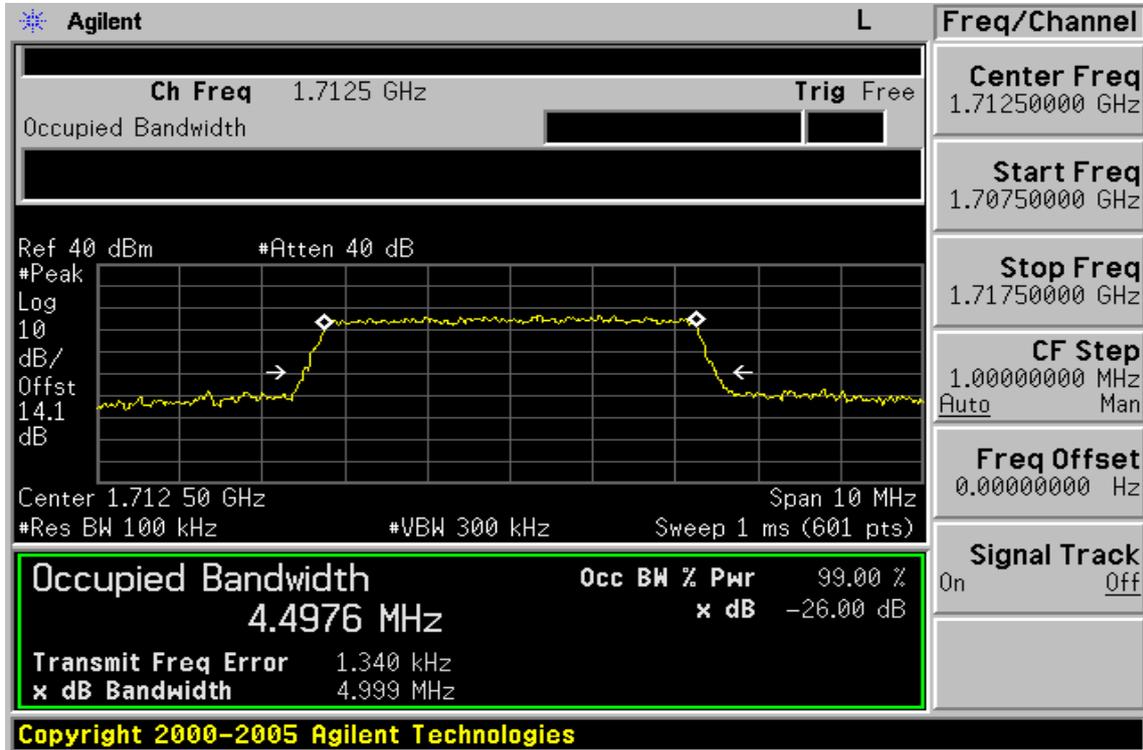
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3MHz BW LTE-Band 4 16QAM Channel High



5MHz BW LTE-Band 4 QPSK Channel Low



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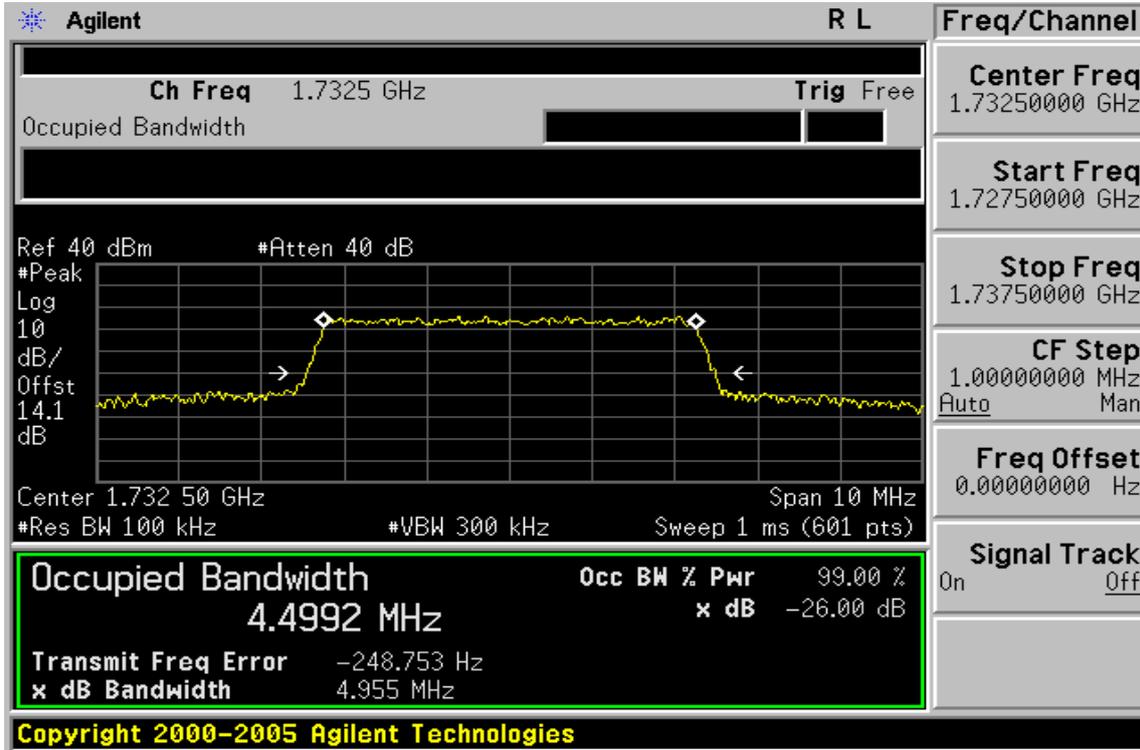
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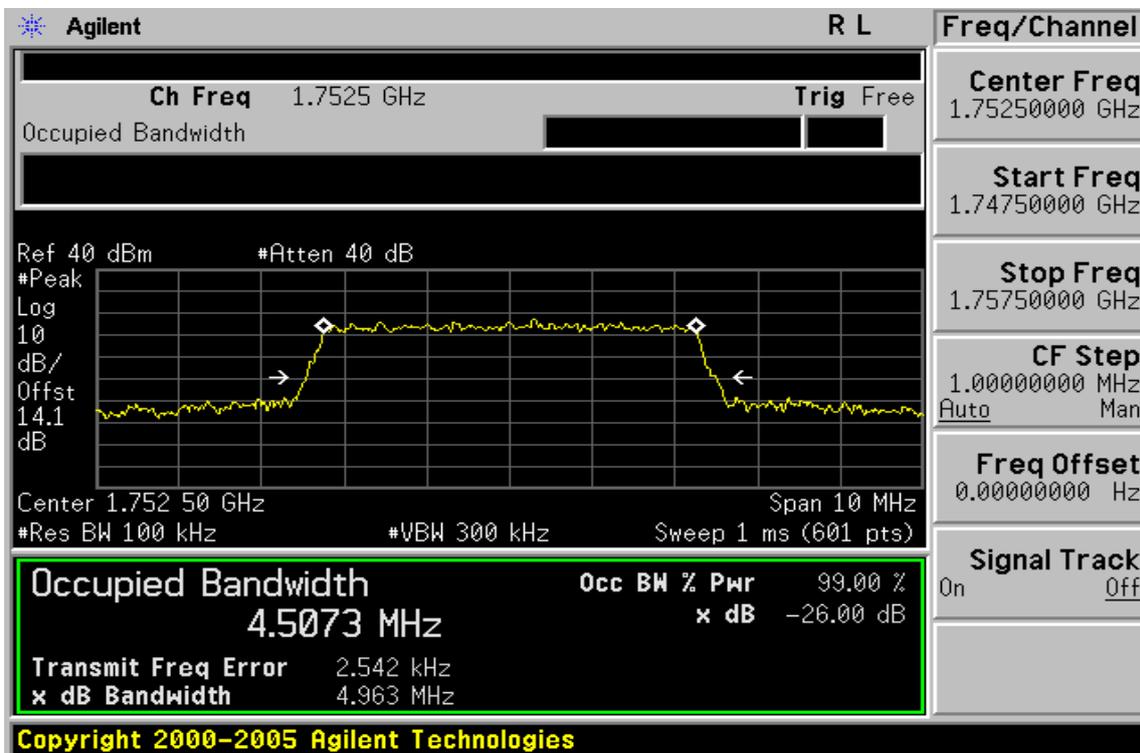
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5MHz BW LTE-Band 4 QPSK Channel Mid



5MHz BW LTE-Band 4 QPSK Channel High



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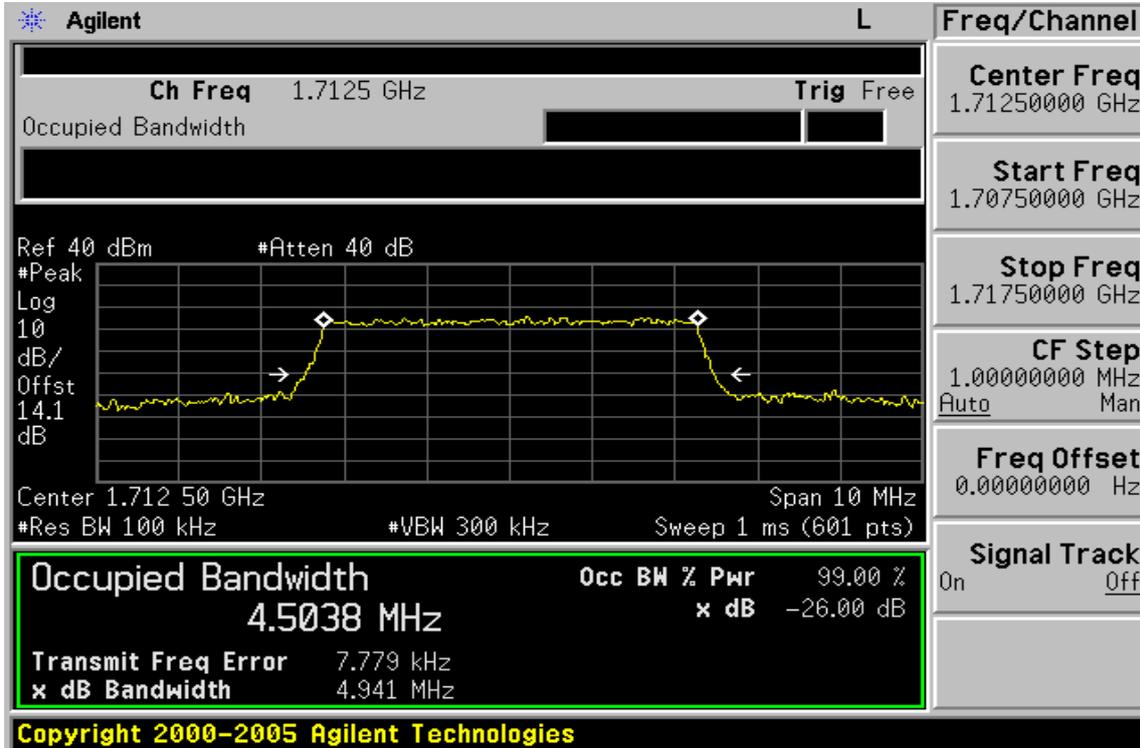
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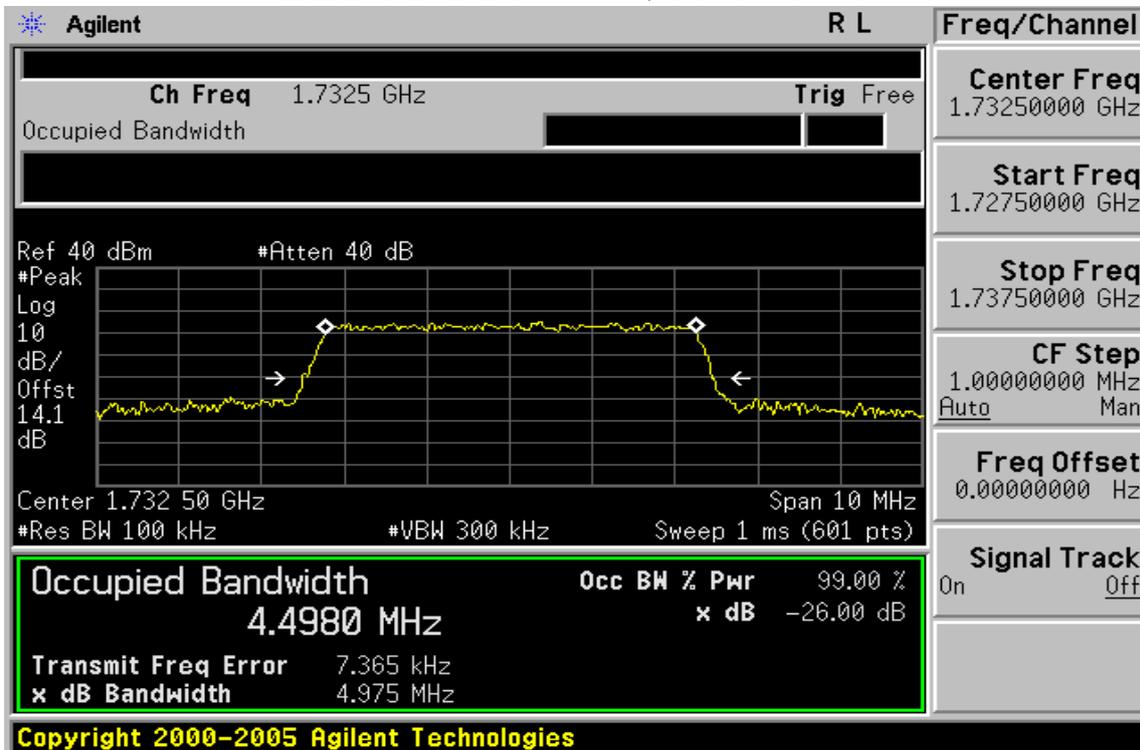
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5MHz BW LTE-Band 4 16QAM Channel Low



5MHz BW LTE-Band 4 16QAM Channel Mid



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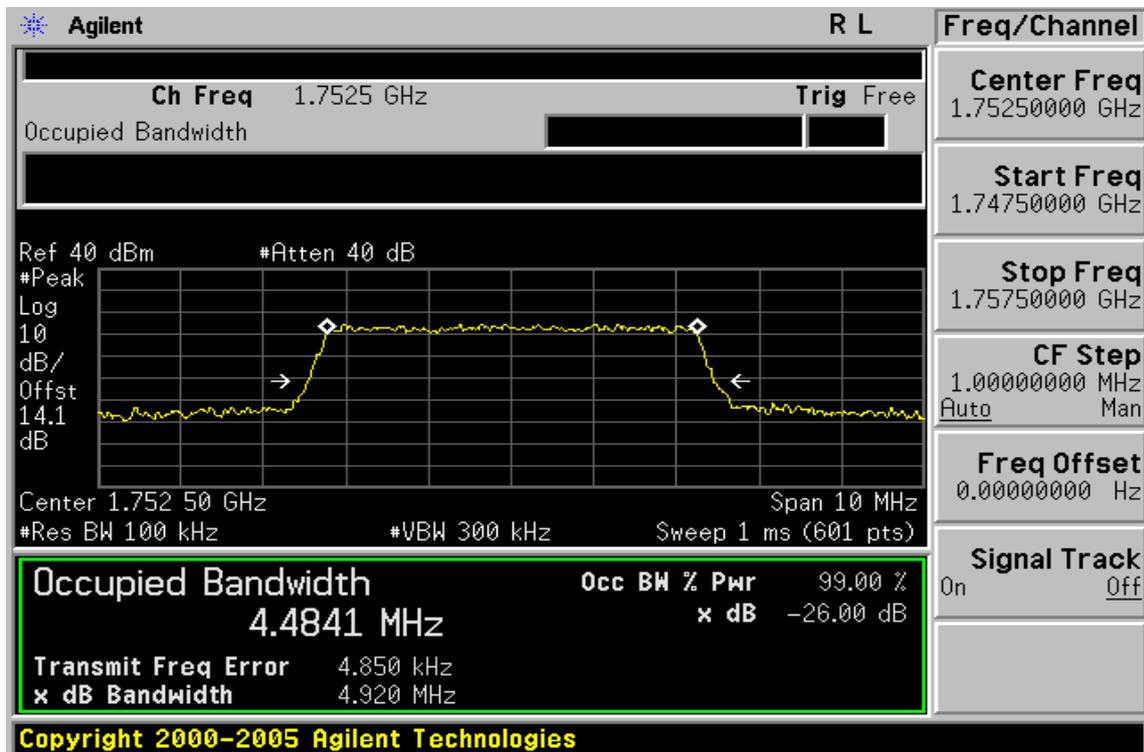
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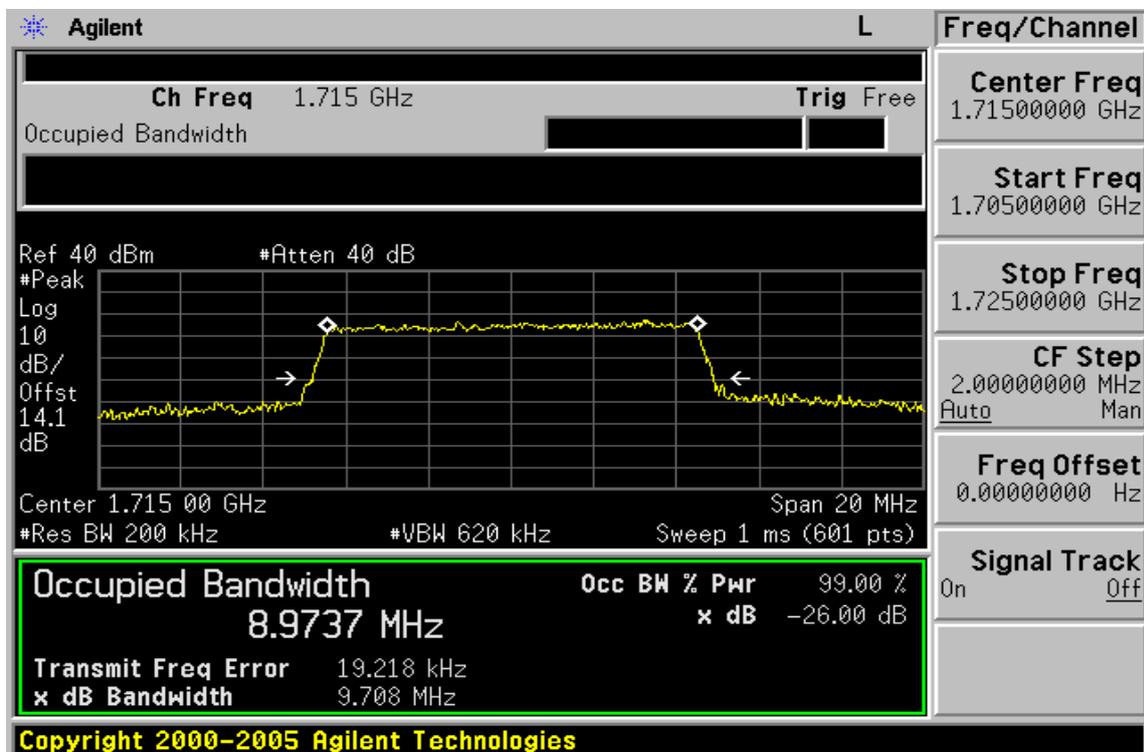
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5MHz BW LTE-Band 4 16QAM Channel High



10MHz BW LTE-Band 4 QPSK Channel Low



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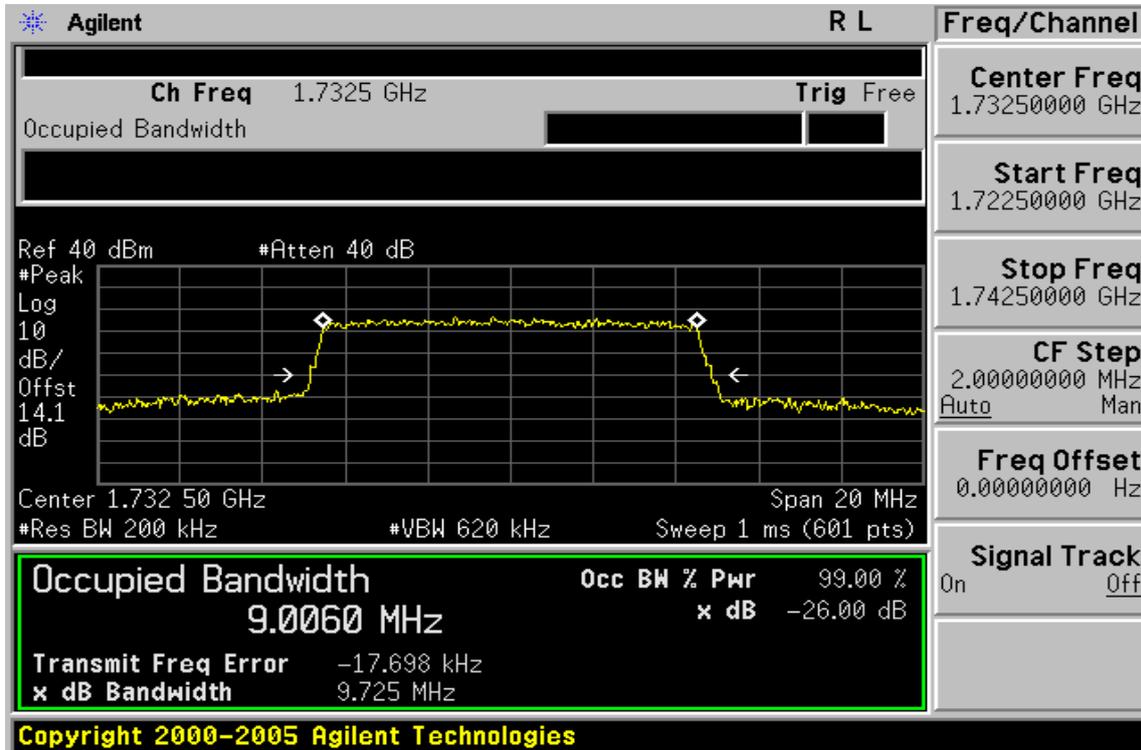
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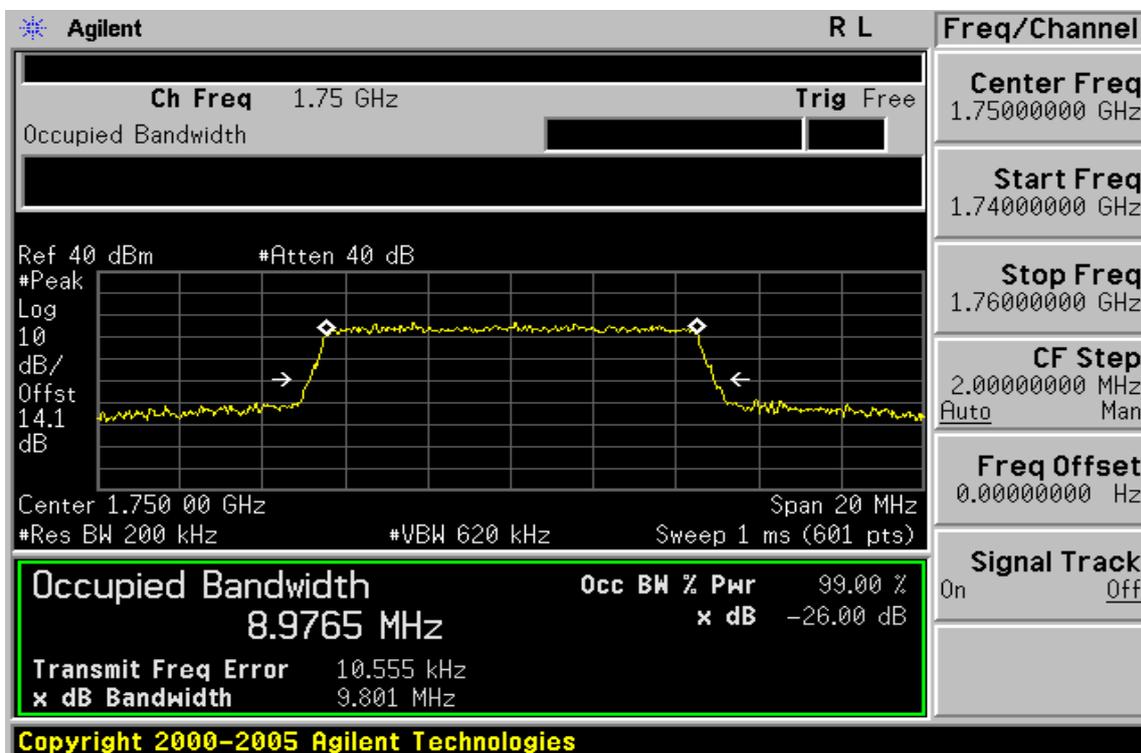
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10MHz BW LTE-Band 4 QPSK Channel Mid



10MHz BW LTE-Band 4 QPSK Channel High



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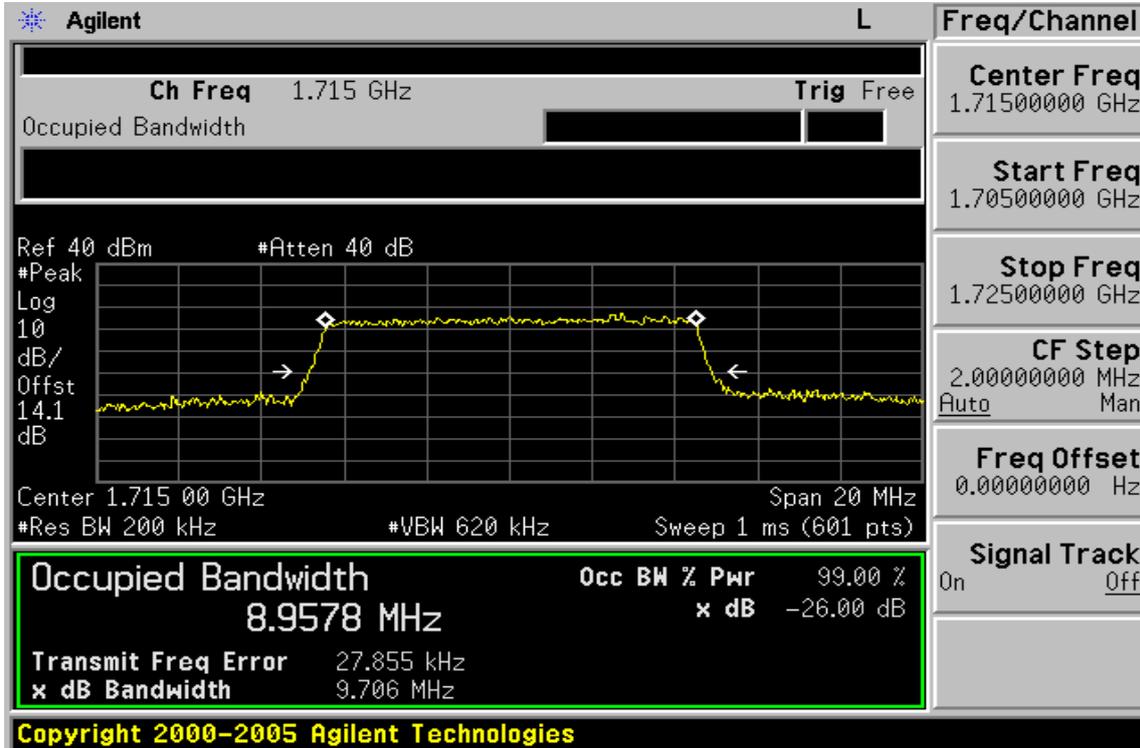
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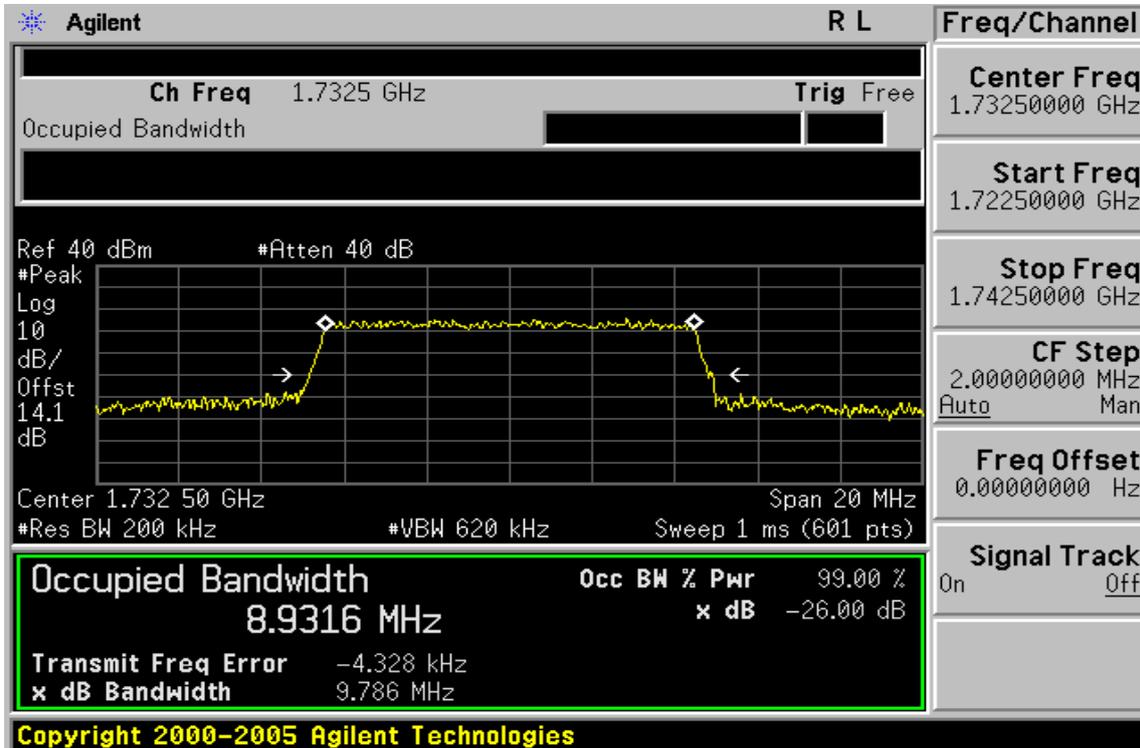
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10MHz BW LTE-Band 4 16QAM Channel Low



10MHz BW LTE-Band 4 16QAM Channel Mid



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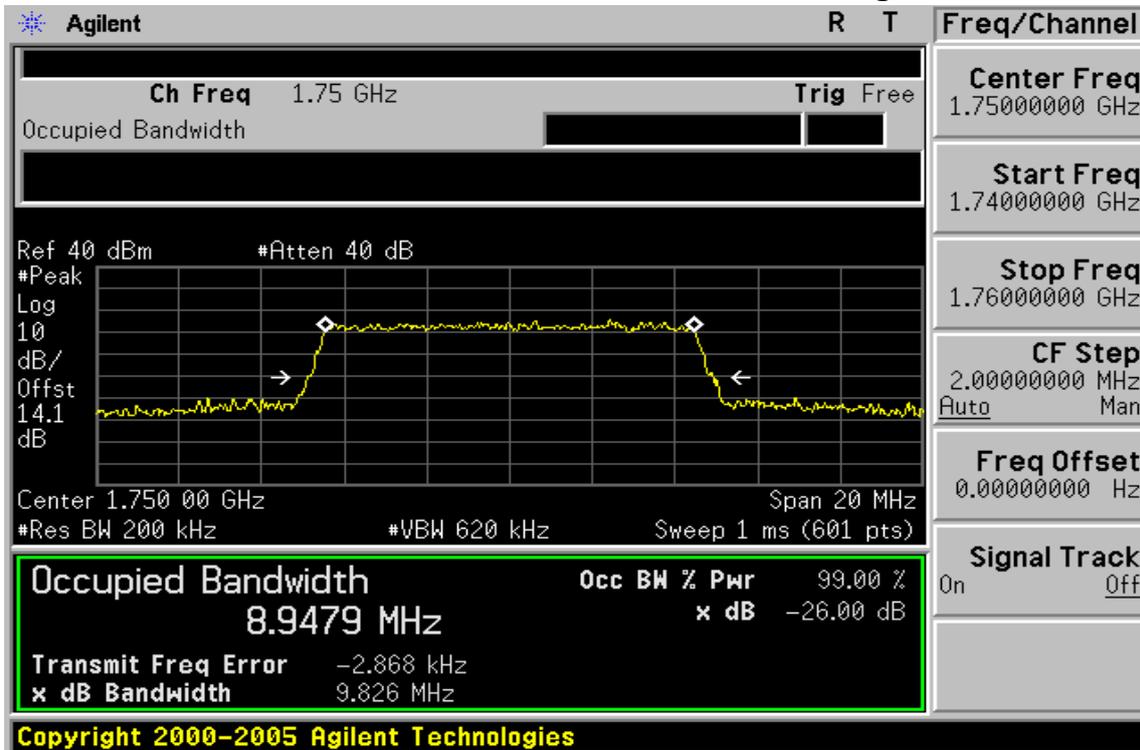
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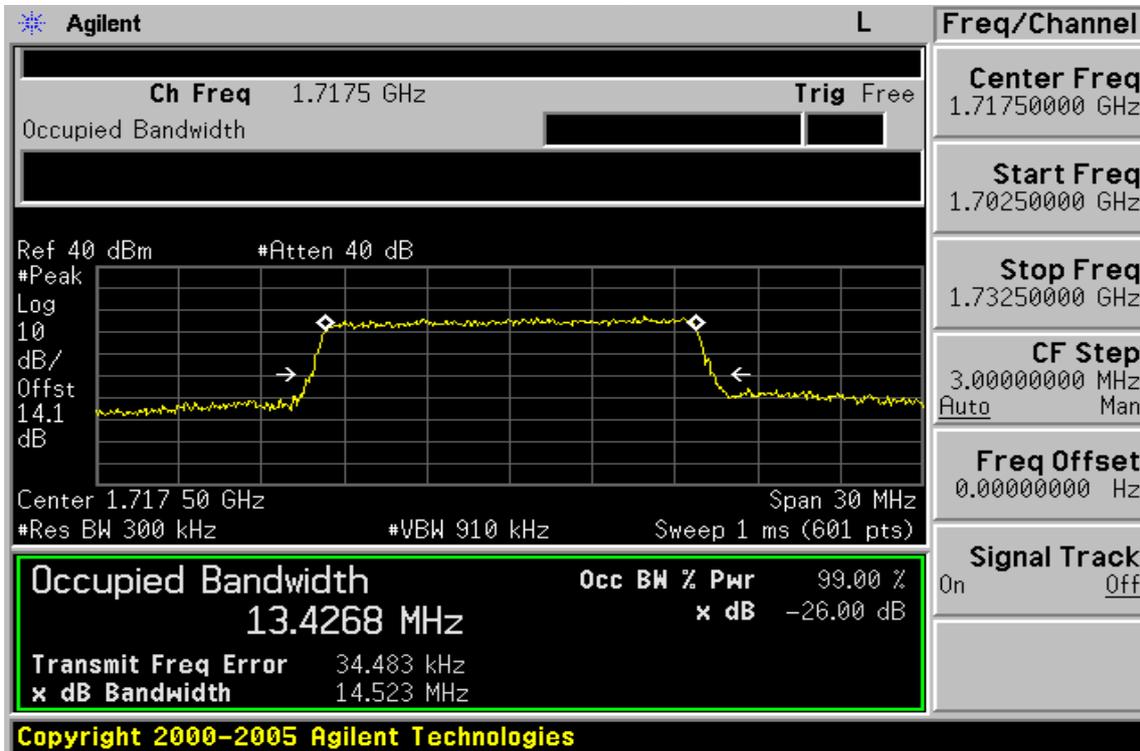
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10MHz BW LTE-Band 4 16QAM Channel High



15MHz BW LTE-Band 4 QPSK Channel Low



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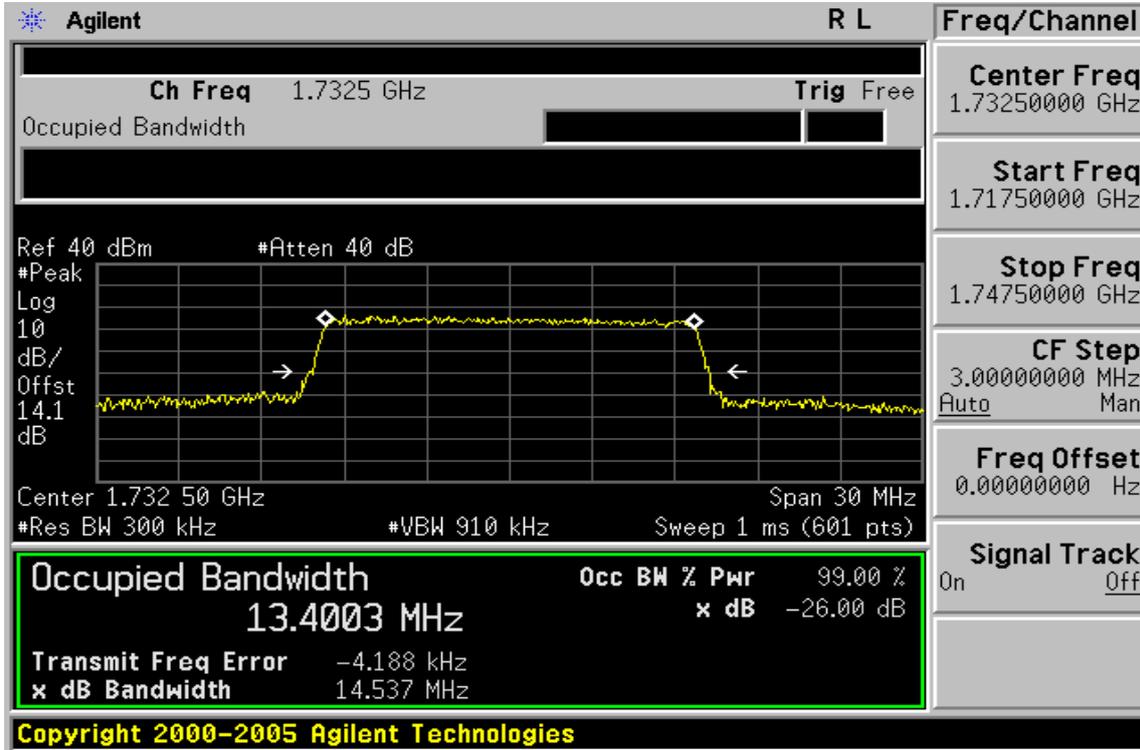
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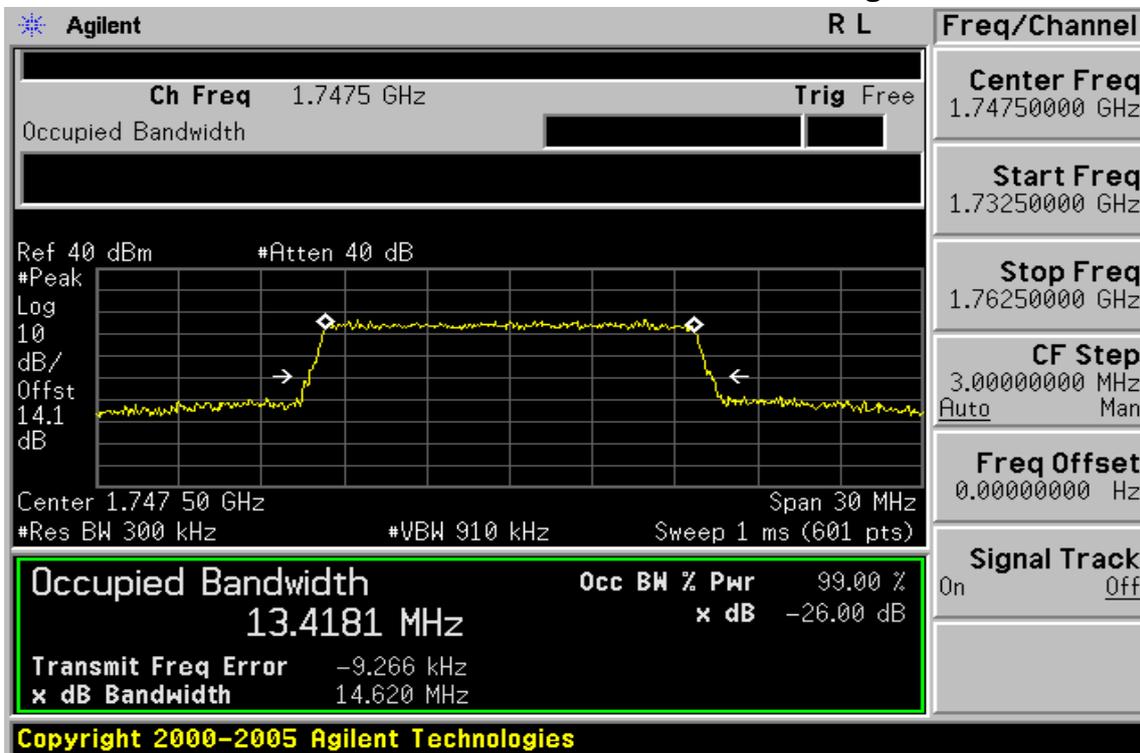
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15MHz BW LTE-Band 4 QPSK Channel Mid



15MHz BW LTE-Band 4 QPSK Channel High



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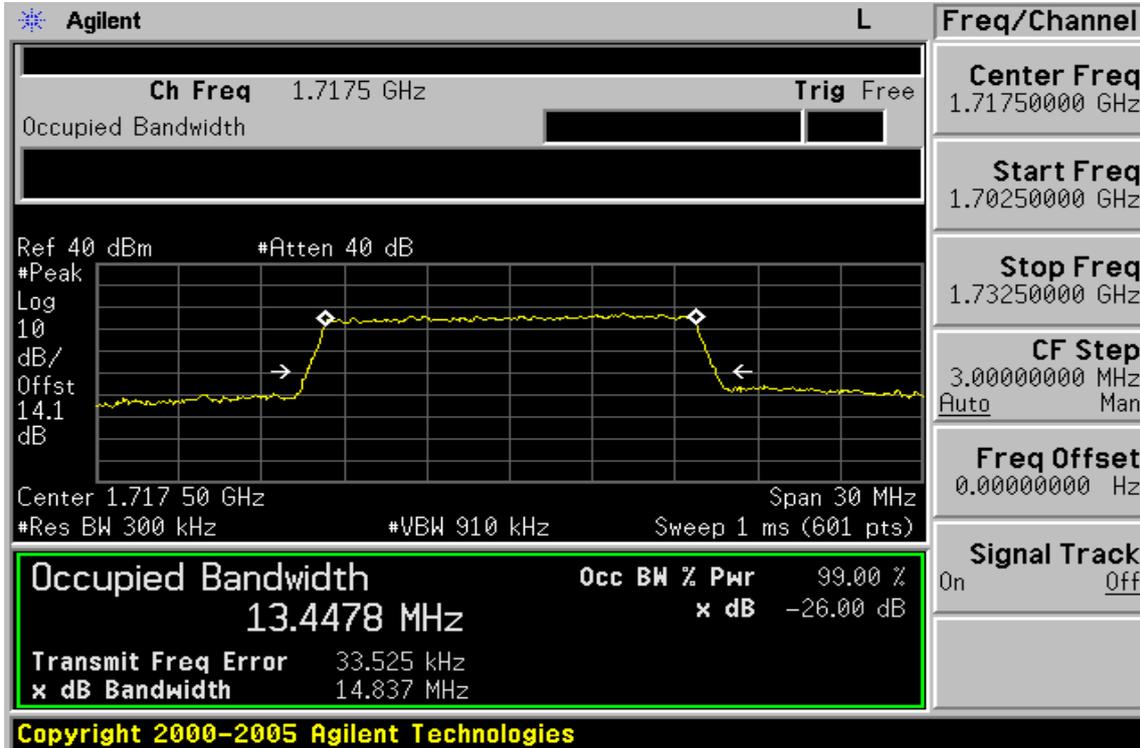
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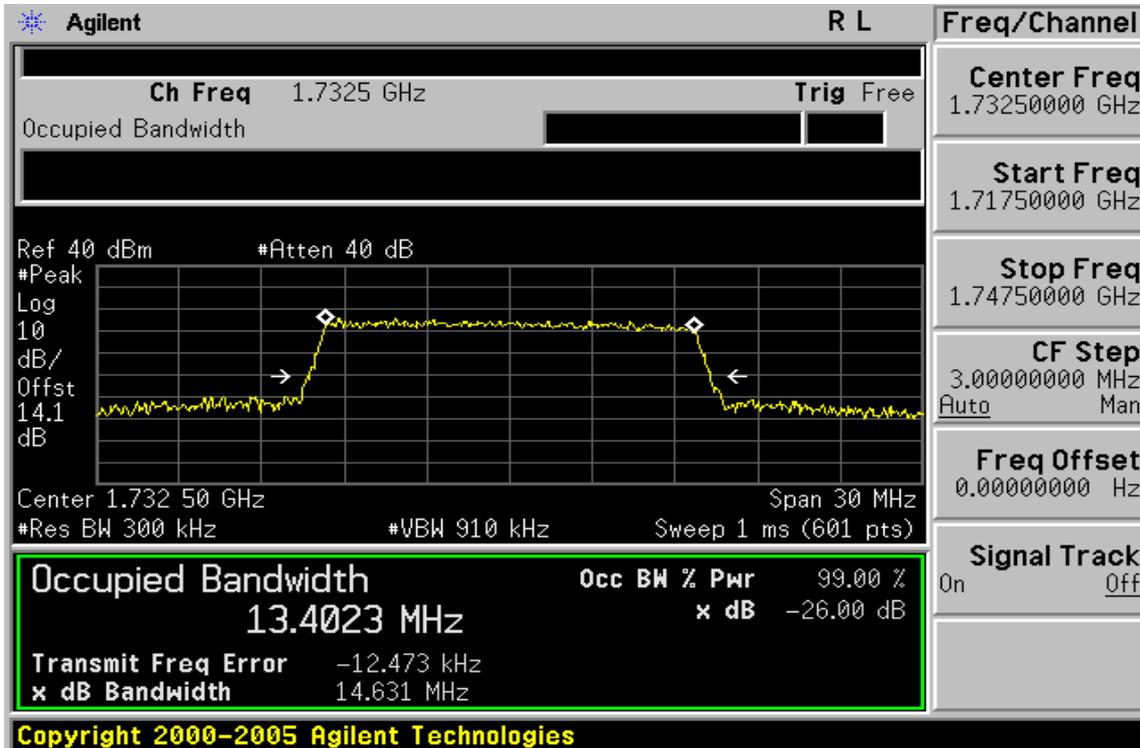
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15MHz BW LTE-Band 4 16QAM Channel Low



15MHz BW LTE-Band 4 16QAM Channel Mid



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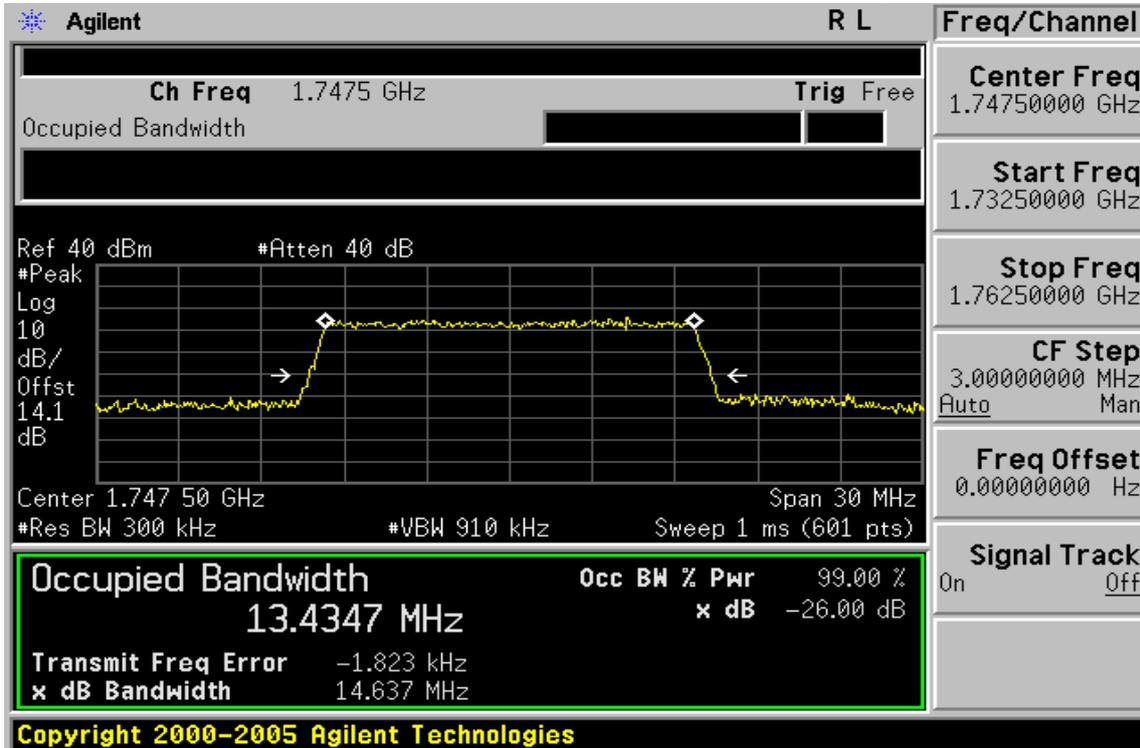
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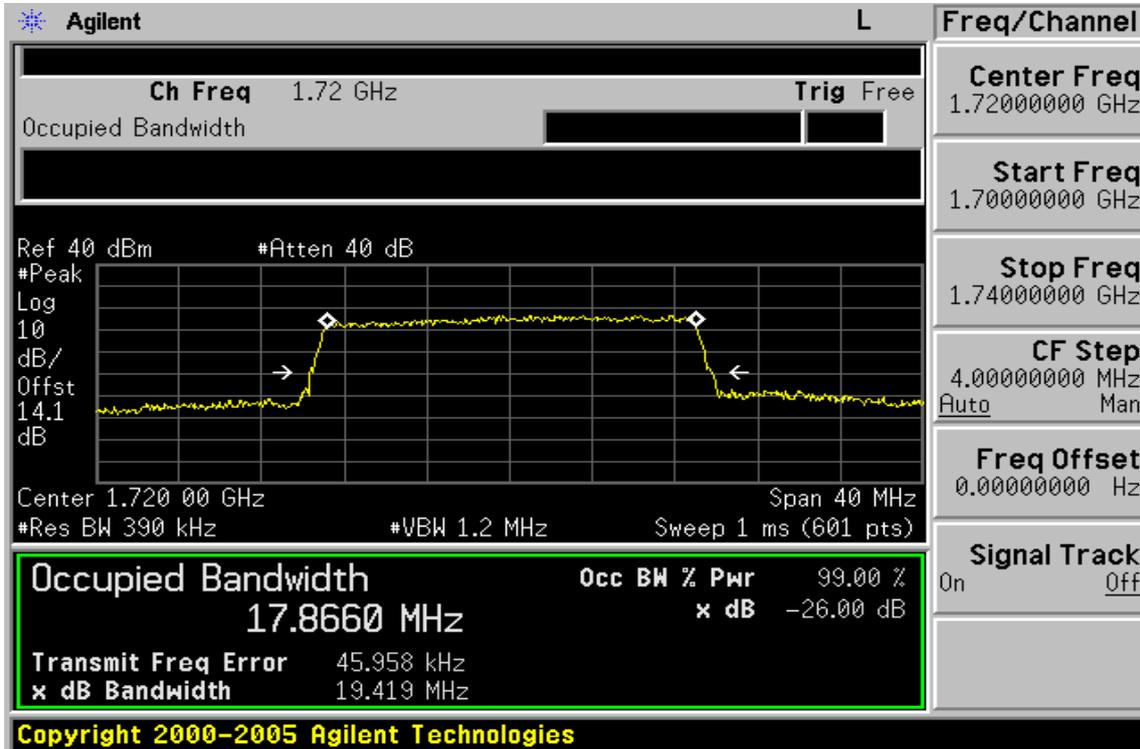
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15MHz BW LTE-Band 4 16QAM Channel High



20MHz BW LTE-Band 4 QPSK Channel Low



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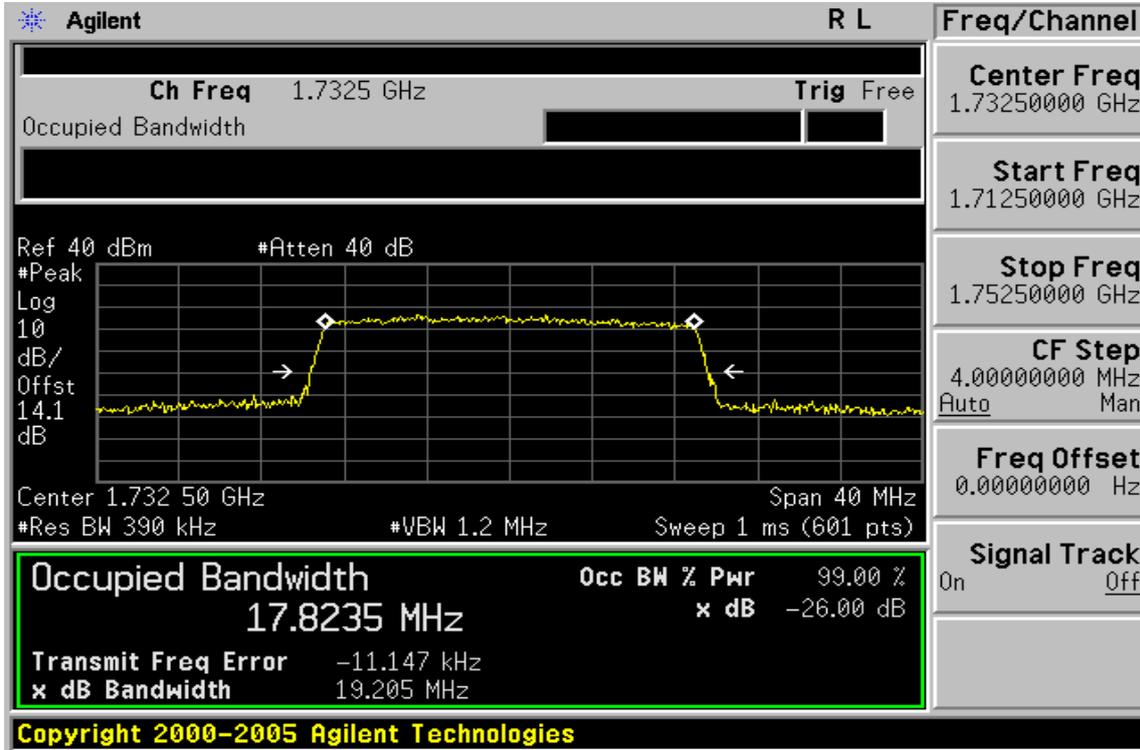
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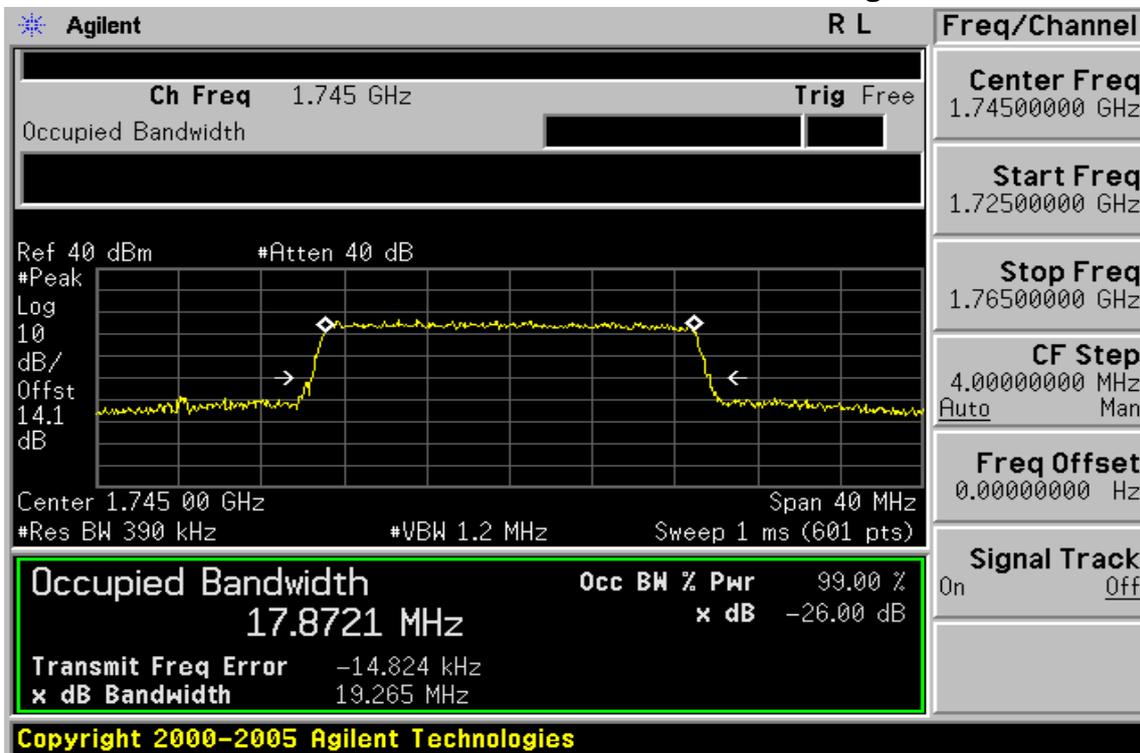
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20MHz BW LTE-Band 4 QPSK Channel Mid



20MHz BW LTE-Band 4 QPSK Channel High



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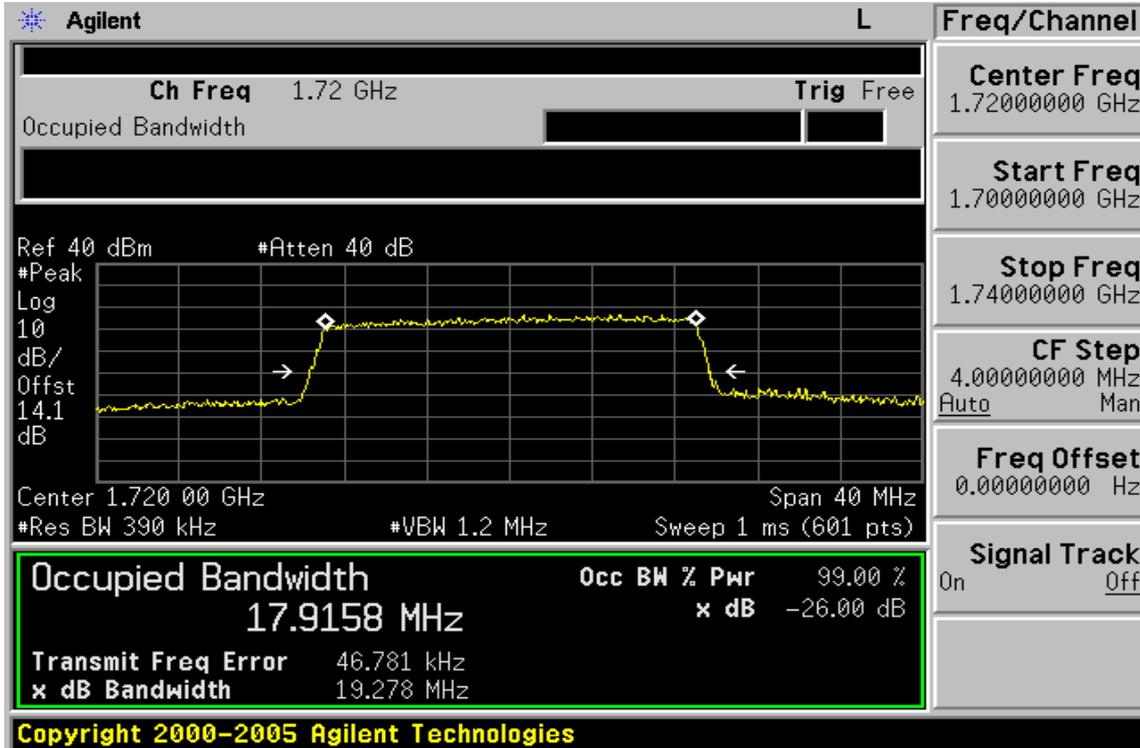
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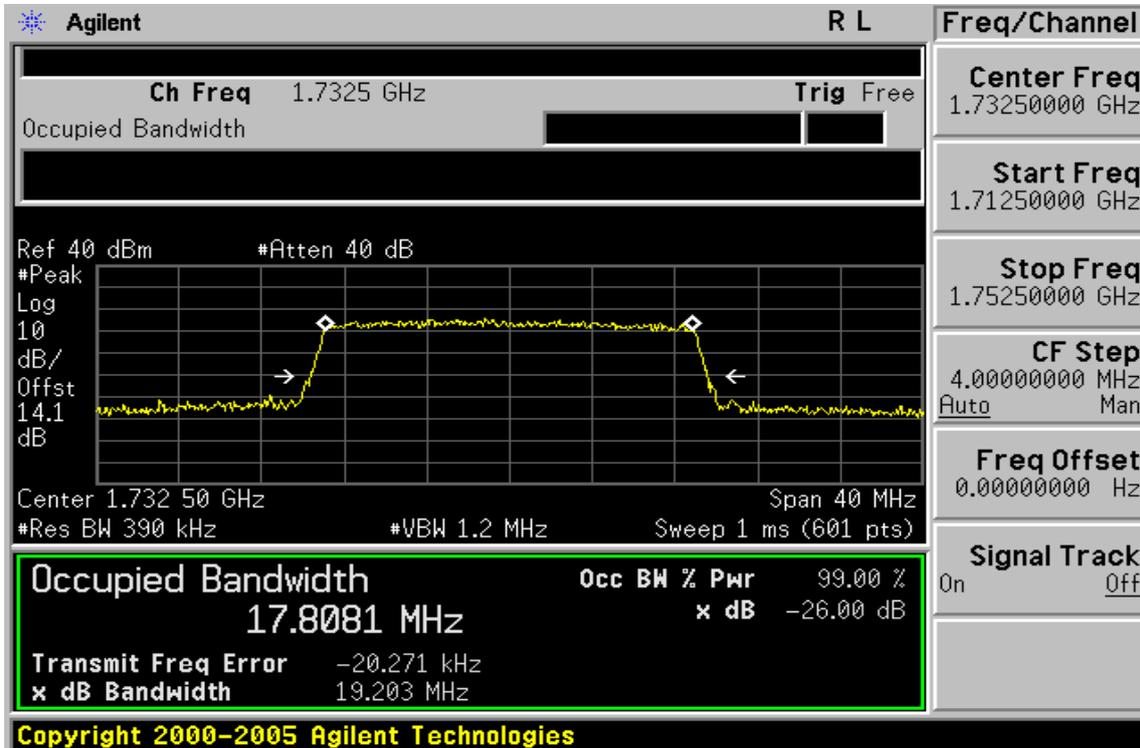
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20MHz BW LTE-Band 4 16QAM Channel Low



20MHz BW LTE-Band 4 16QAM Channel Mid



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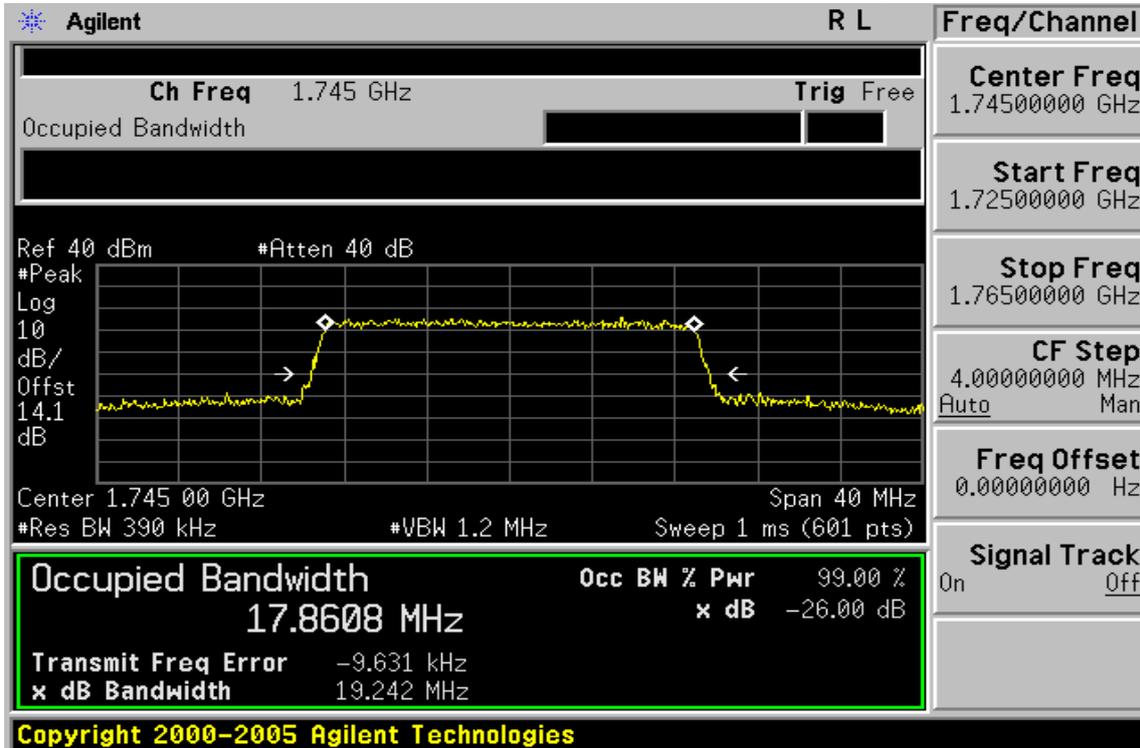
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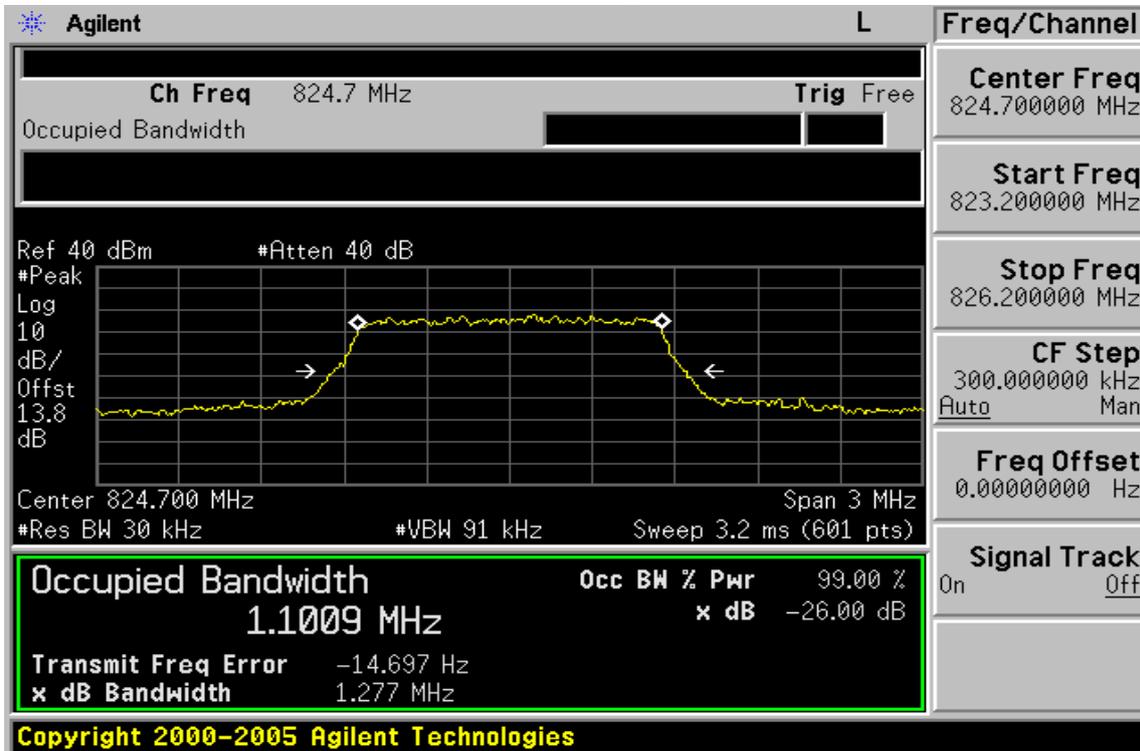
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20MHz BW LTE-Band 4 16QAM Channel High



1.4MHz BW LTE-Band 5 QPSK Channel Low

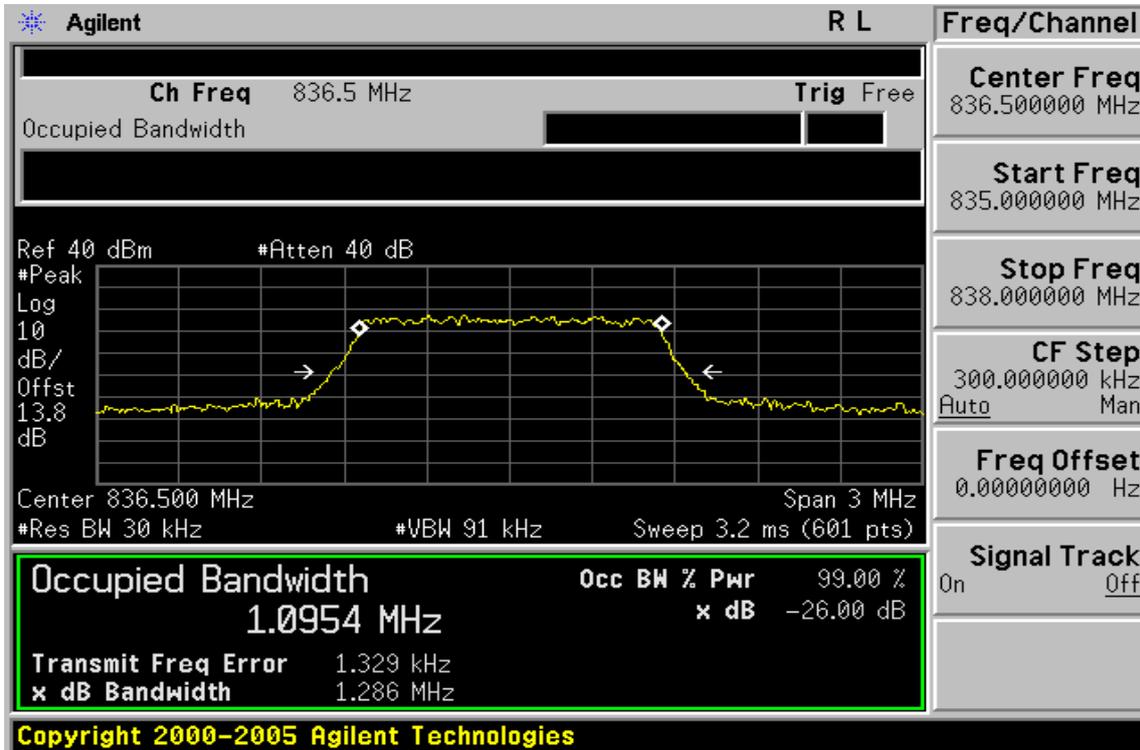


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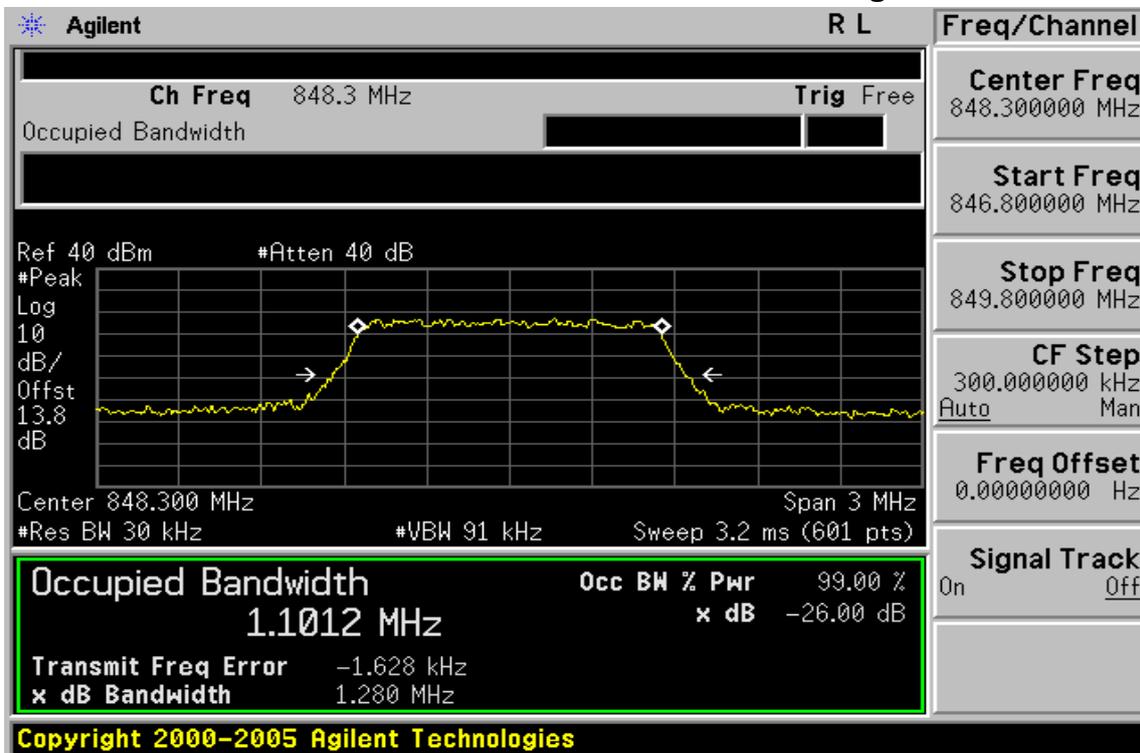
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1.4MHz BW LTE-Band 5 QPSK Channel Mid



1.4MHz BW LTE-Band 5 QPSK Channel High



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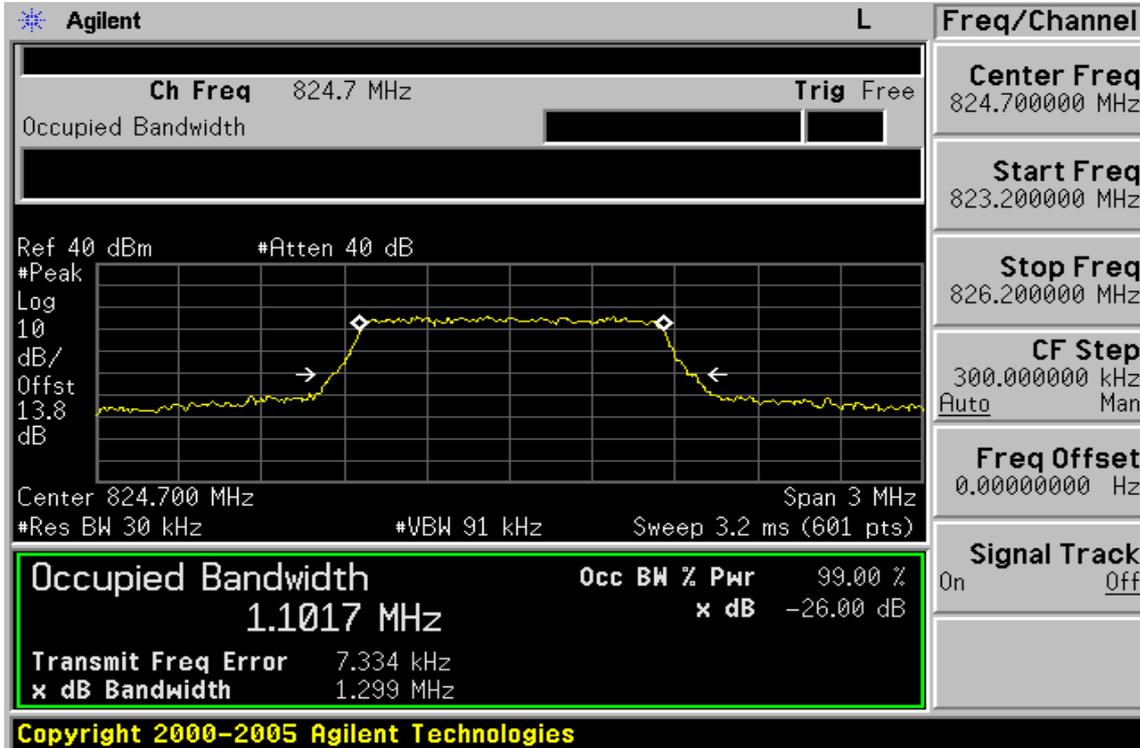
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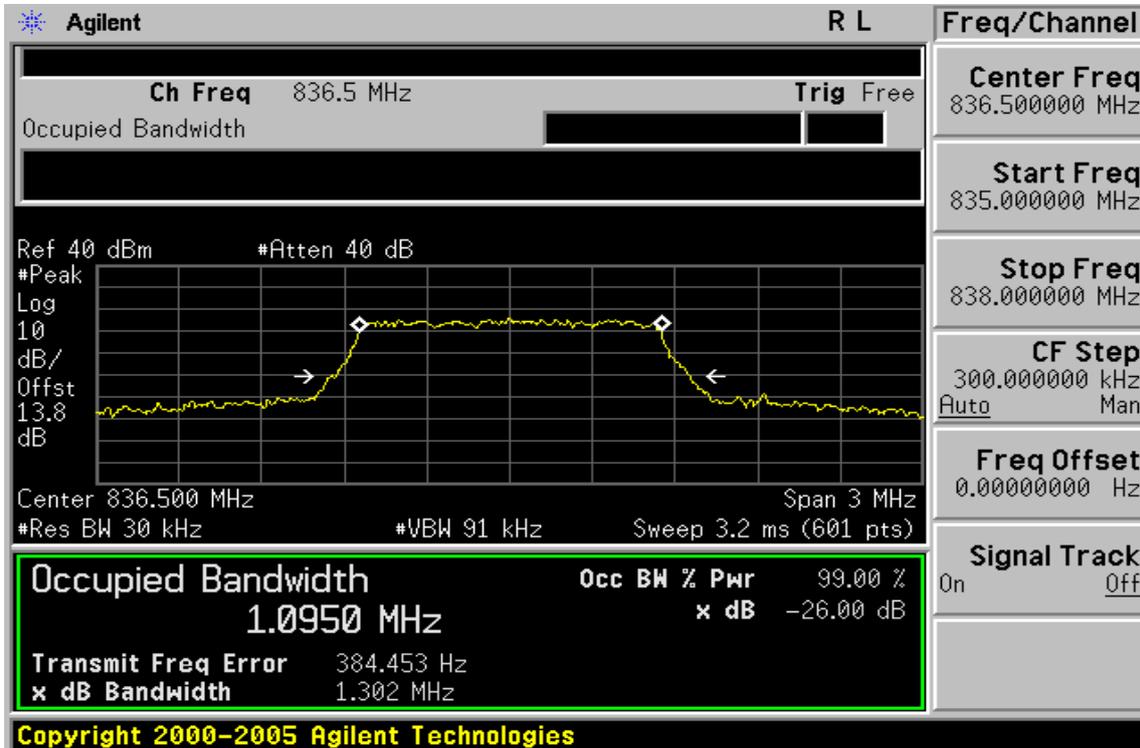
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1.4MHz BW LTE-Band 5 16QAM Channel Low



1.4MHz BW LTE-Band 5 16QAM Channel Mid



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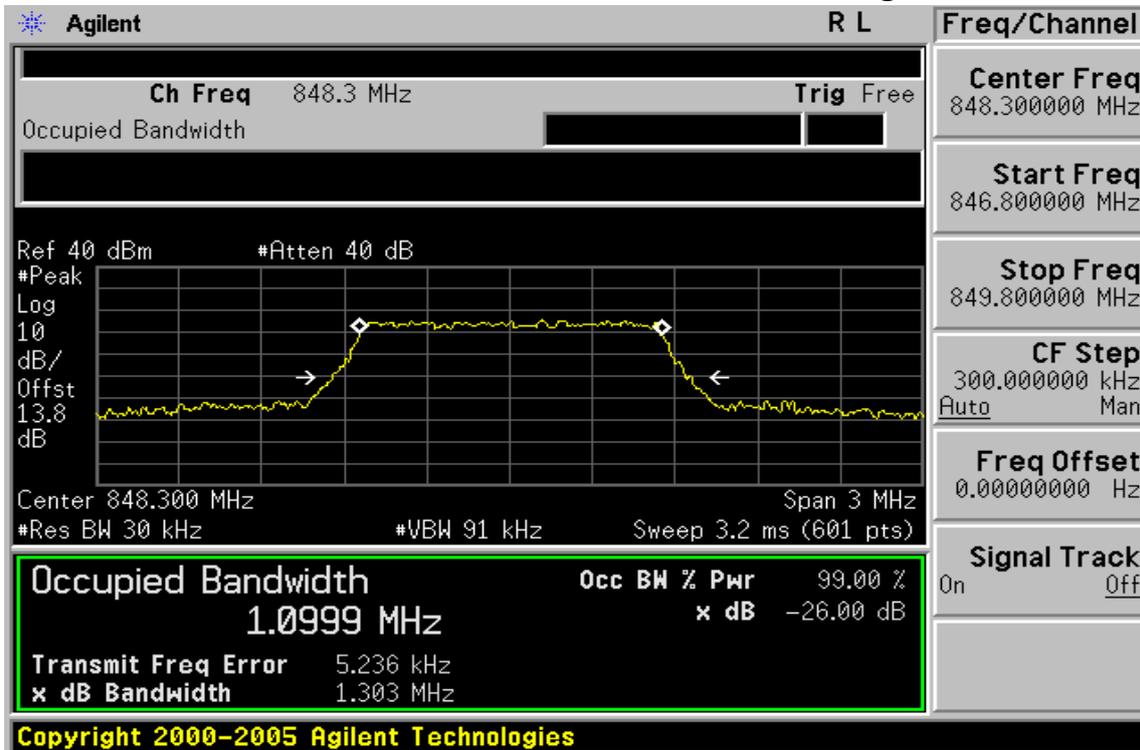
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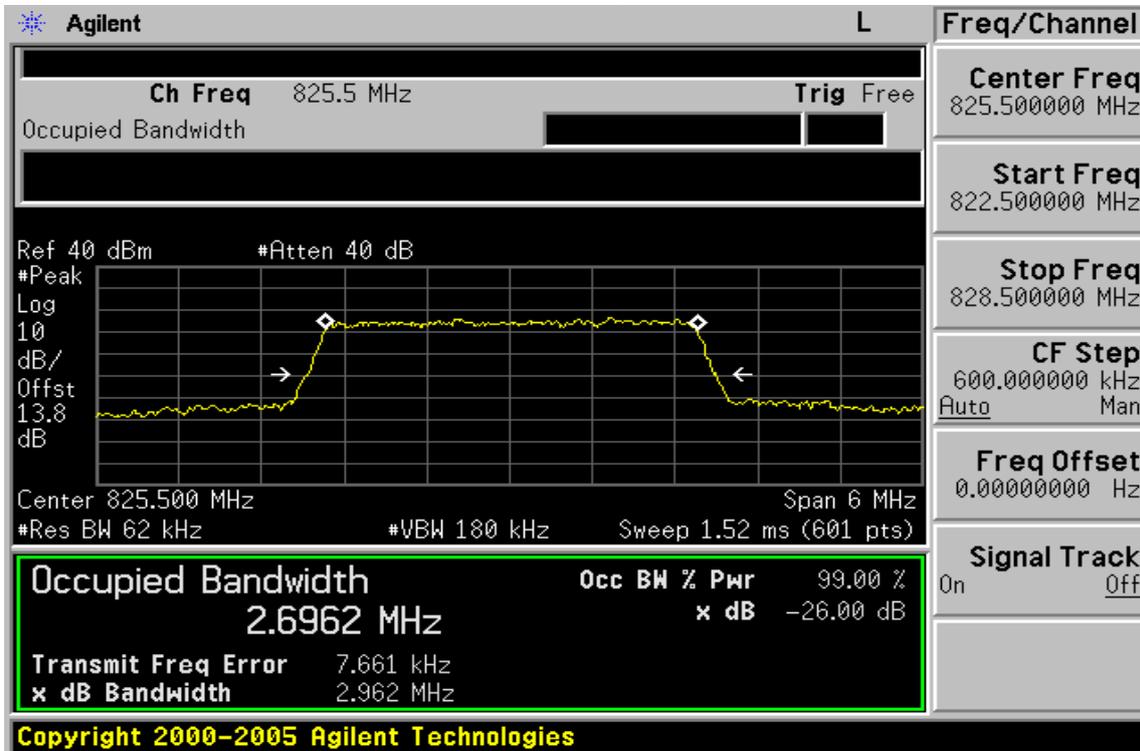
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1.4MHz BW LTE-Band 5 16QAM Channel High



3MHz BW LTE-Band 5 QPSK Channel Low



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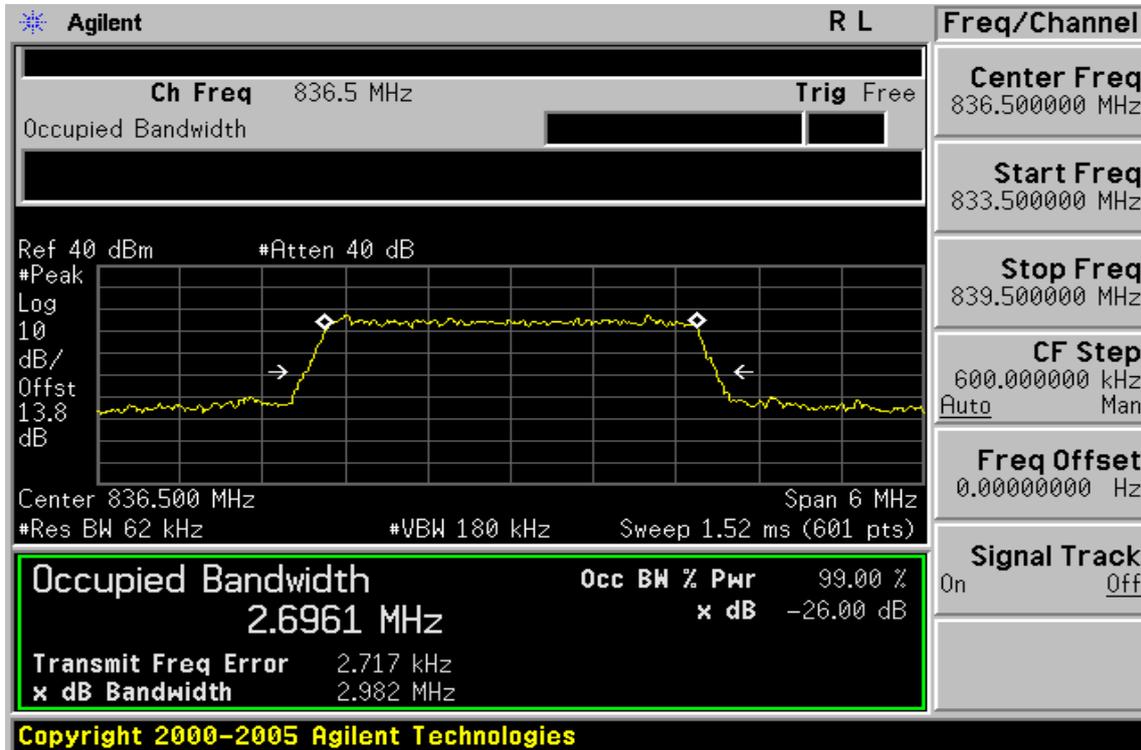
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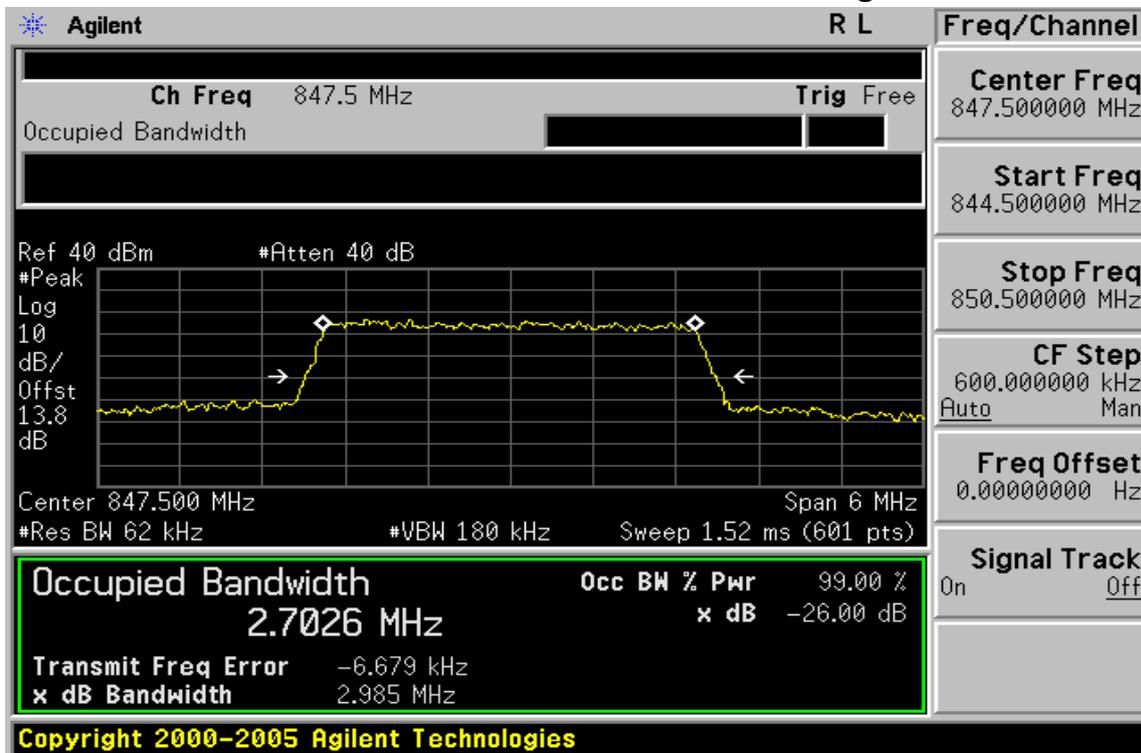
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3MHz BW LTE-Band 5 QPSK Channel Mid



3MHz BW LTE-Band 5 QPSK Channel High



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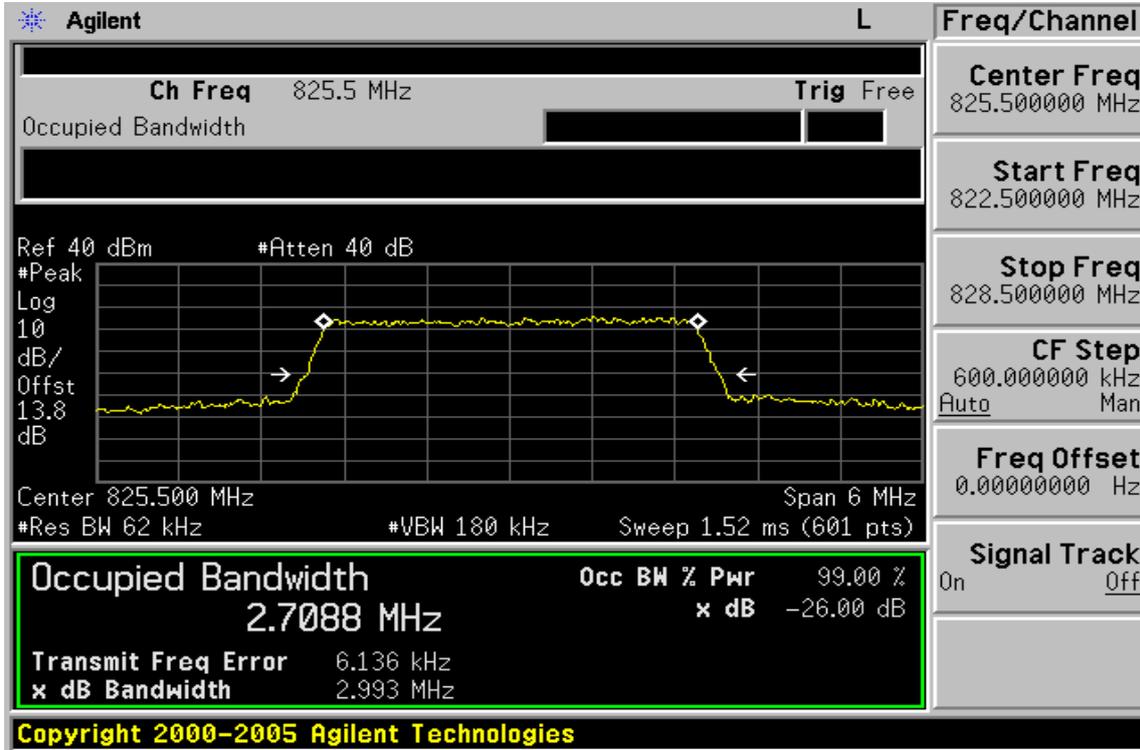
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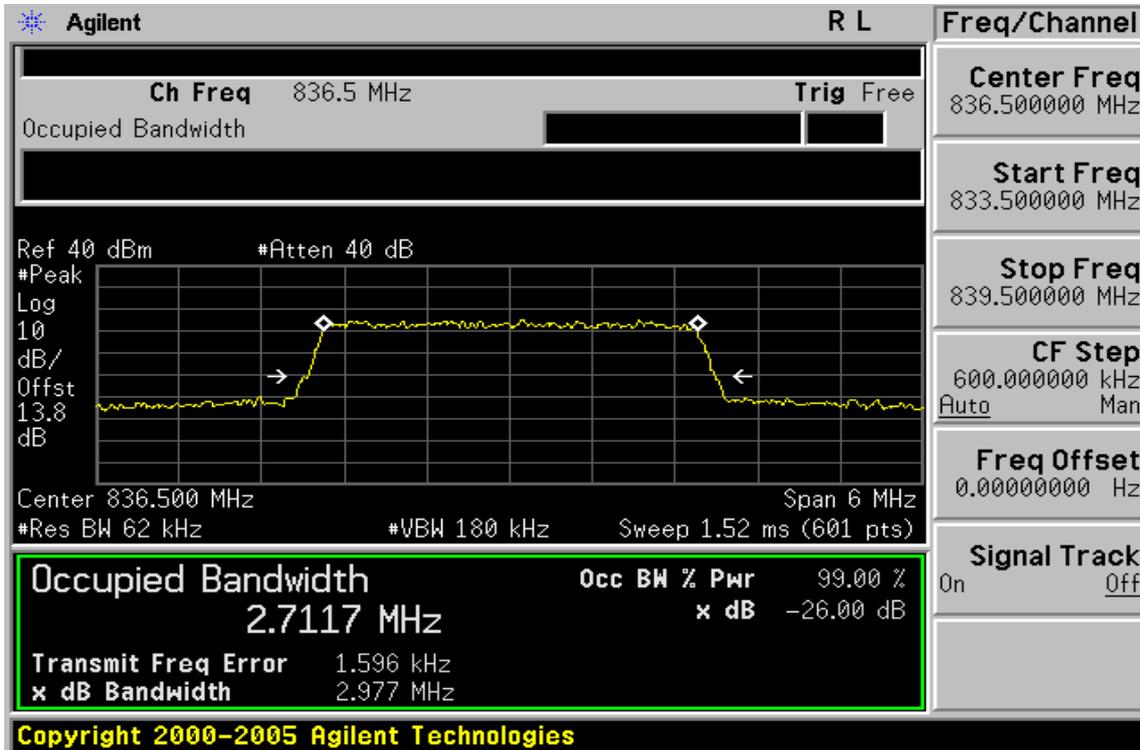
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3MHz BW LTE-Band 5 16QAM Channel Low



3MHz BW LTE-Band 5 16QAM Channel Mid



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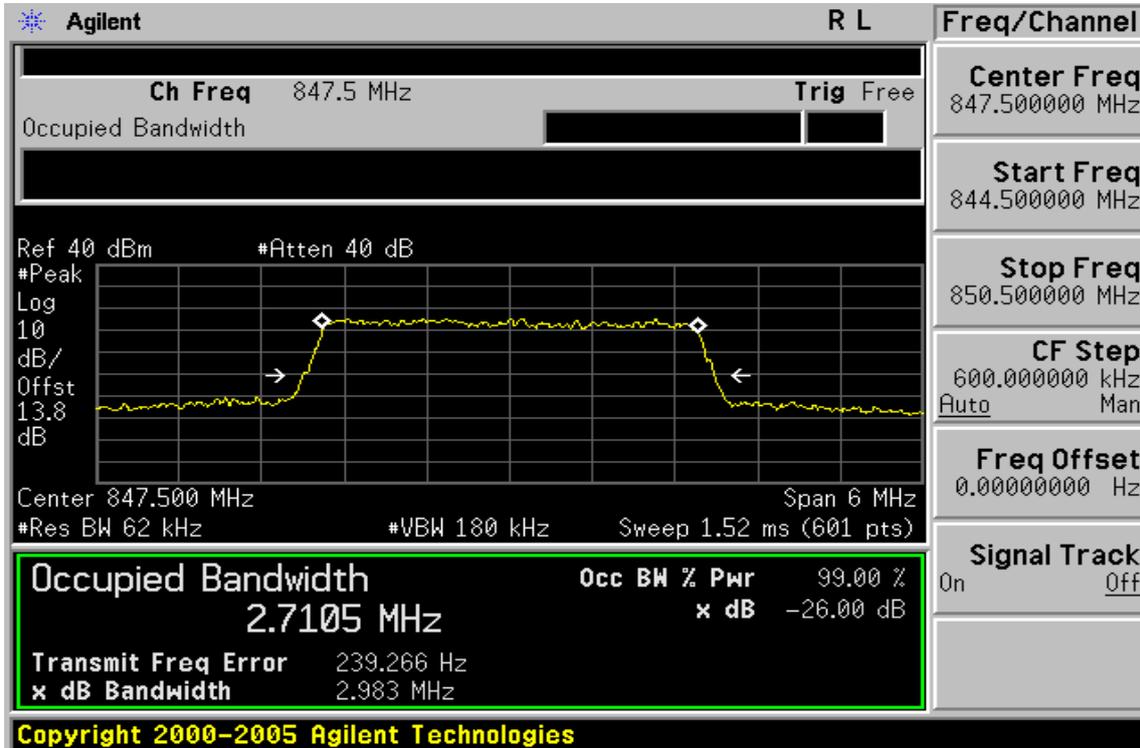
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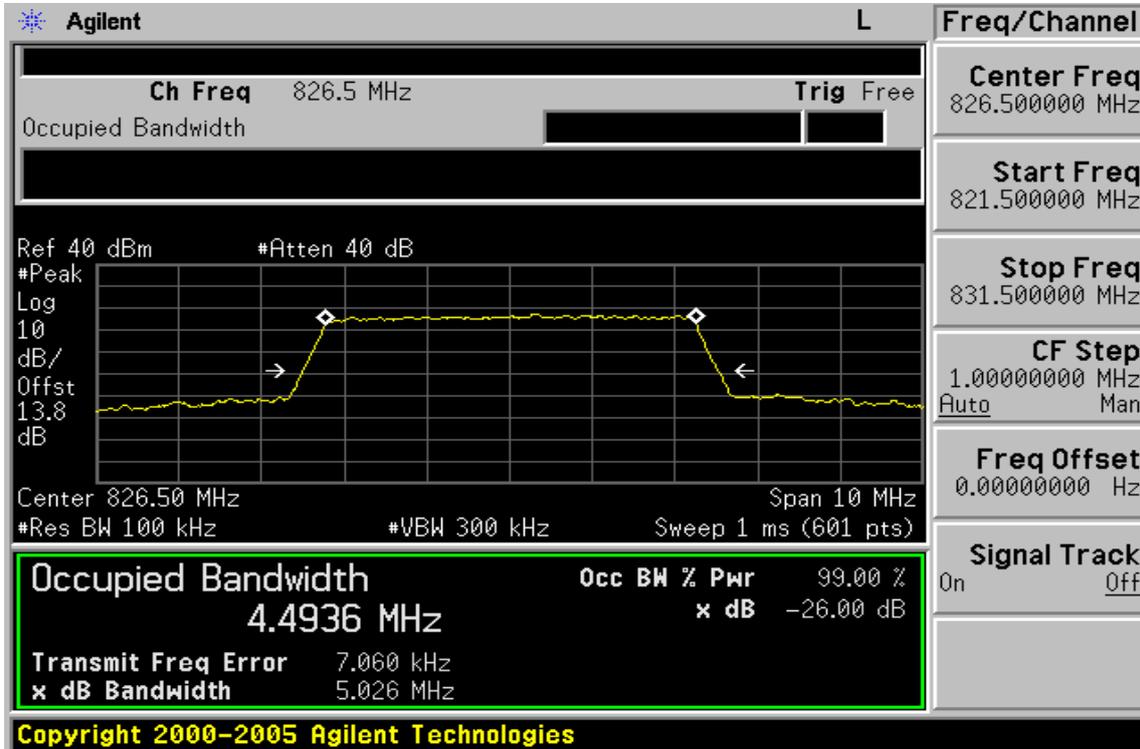
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3MHz BW LTE-Band 5 16QAM Channel High



5MHz BW LTE-Band 5 QPSK Channel Low



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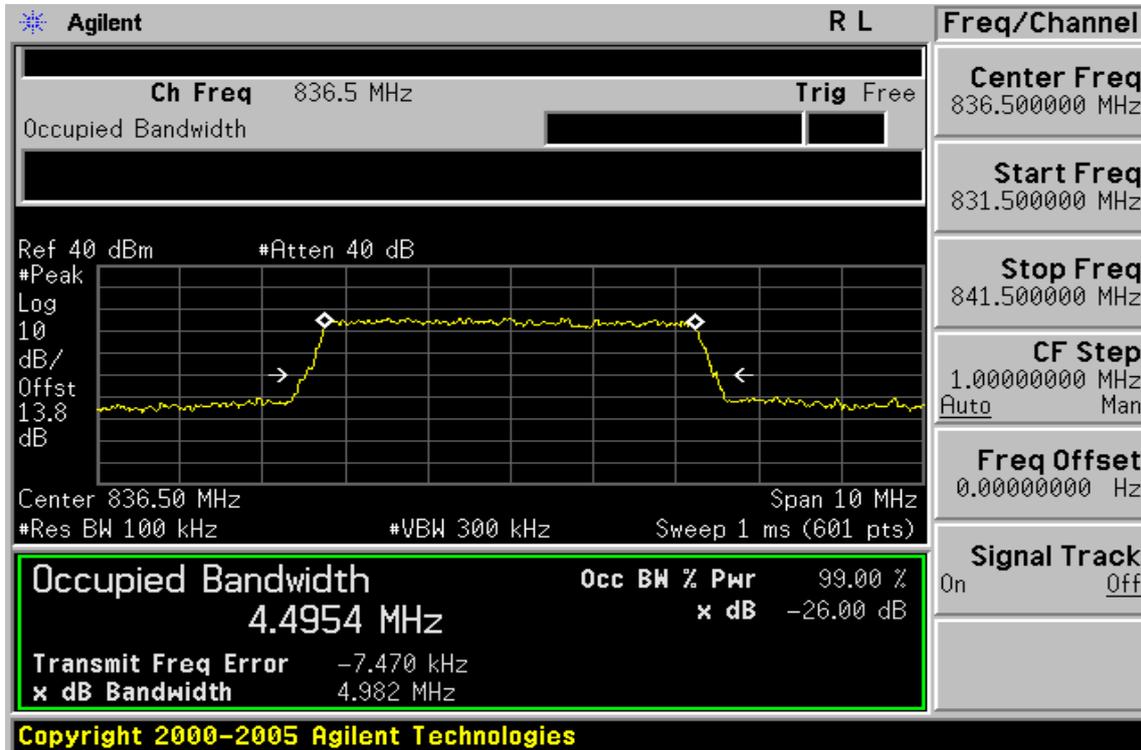
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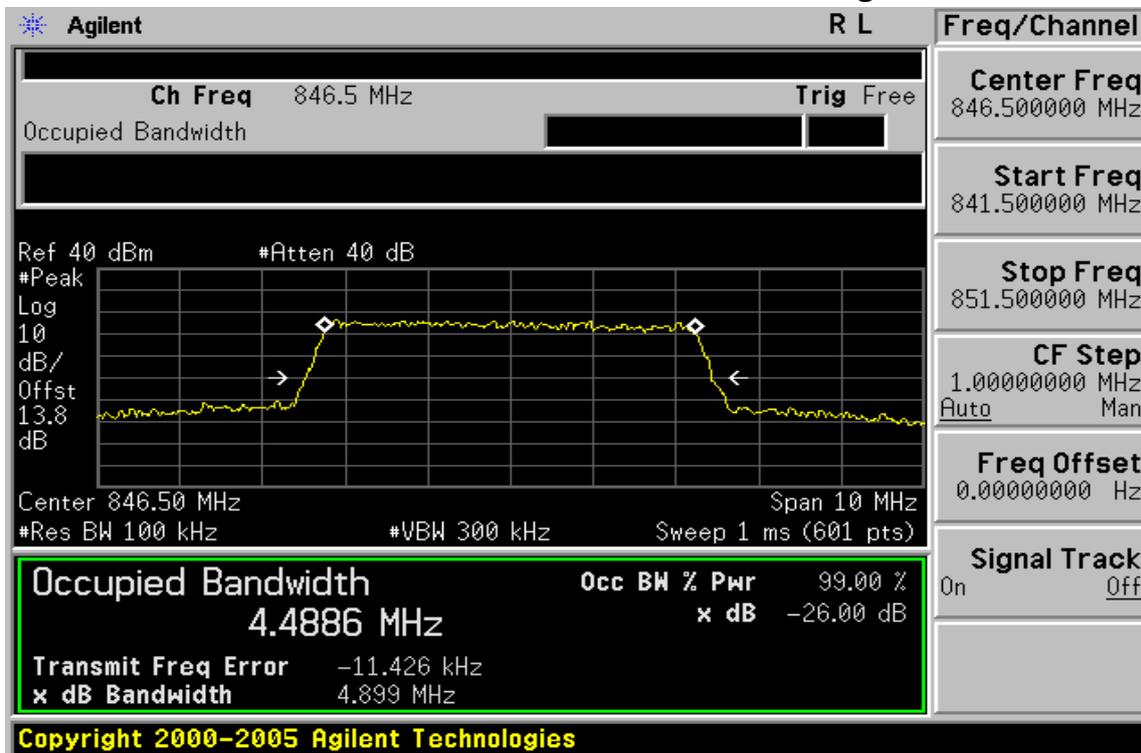
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5MHz BW LTE-Band 5 QPSK Channel Mid



5MHz BW LTE-Band 5 QPSK Channel High



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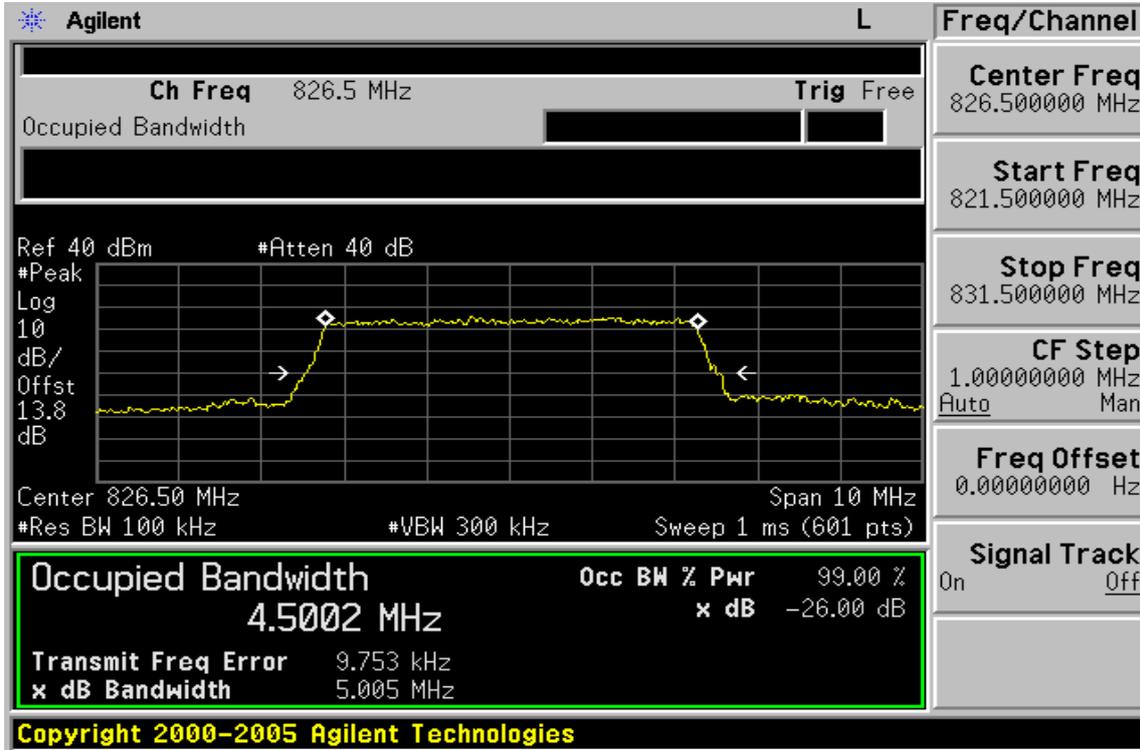
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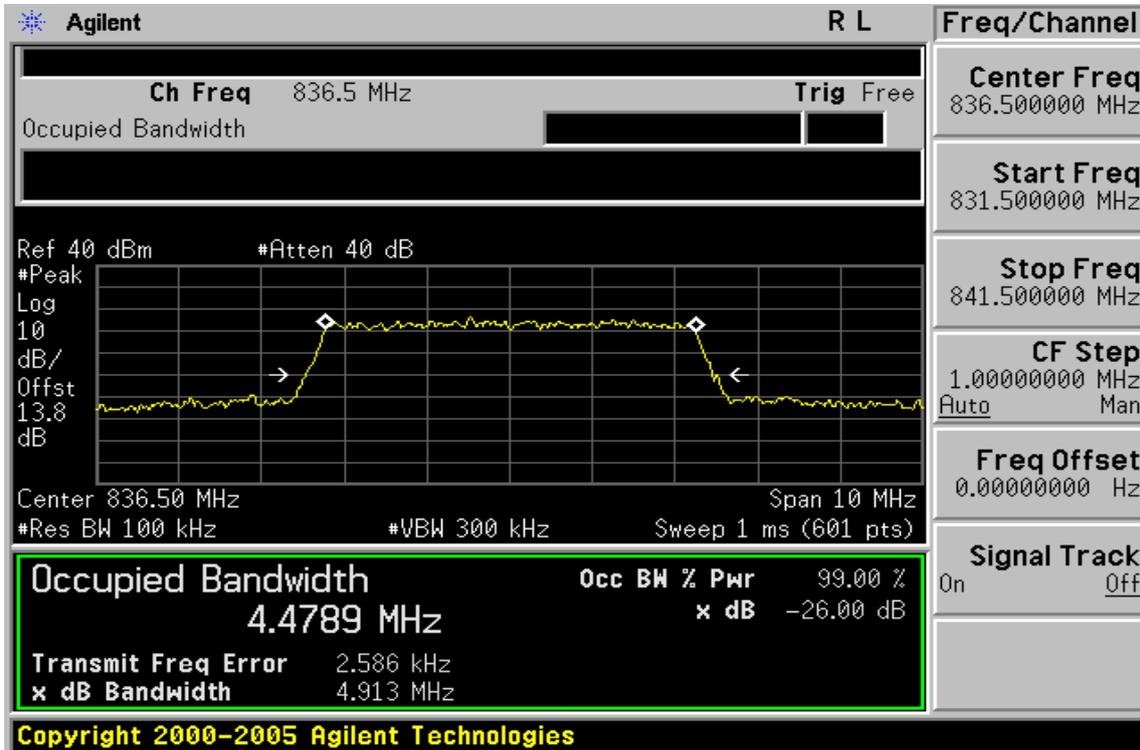
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5MHz BW LTE-Band 5 16QAM Channel Low



5MHz BW LTE-Band 5 16QAM Channel Mid



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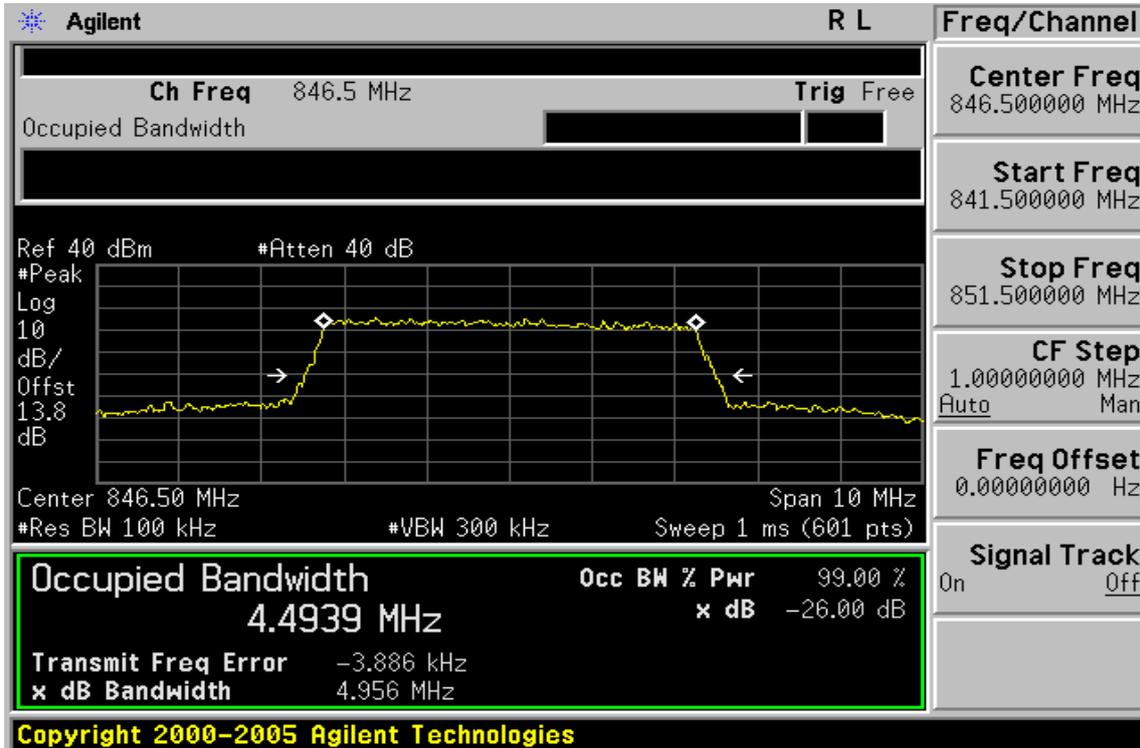
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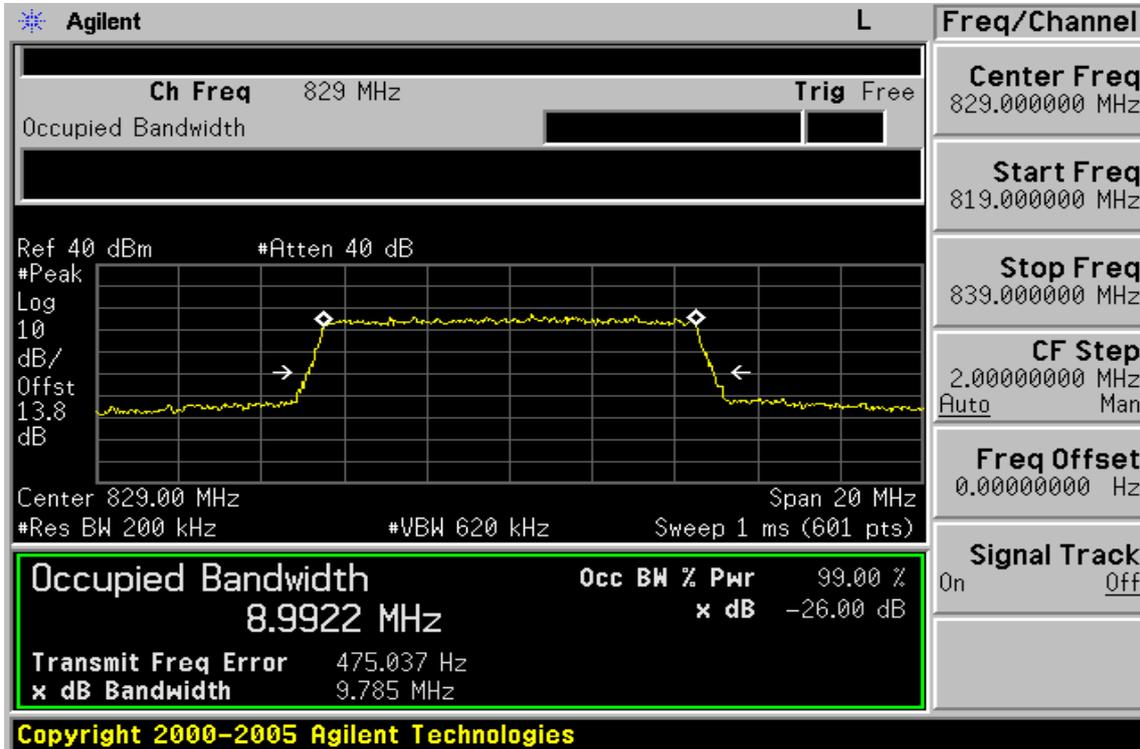
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5MHz BW LTE-Band 5 16QAM Channel High



10MHz BW LTE-Band 5 QPSK Channel Low



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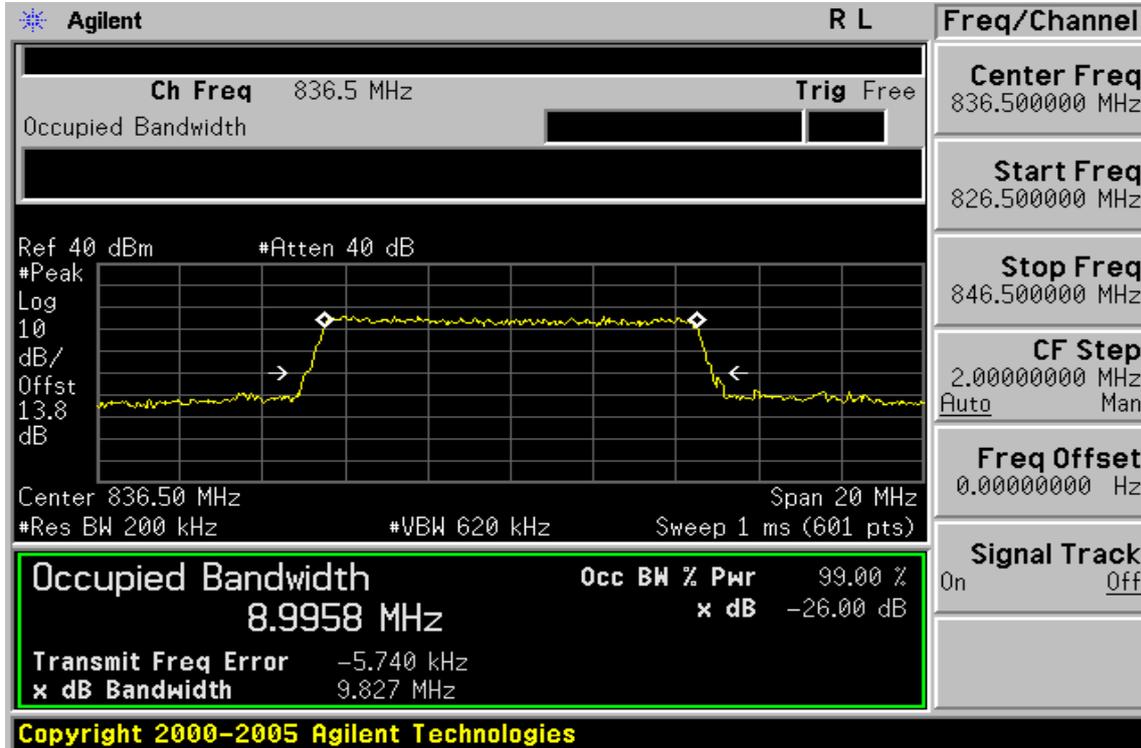
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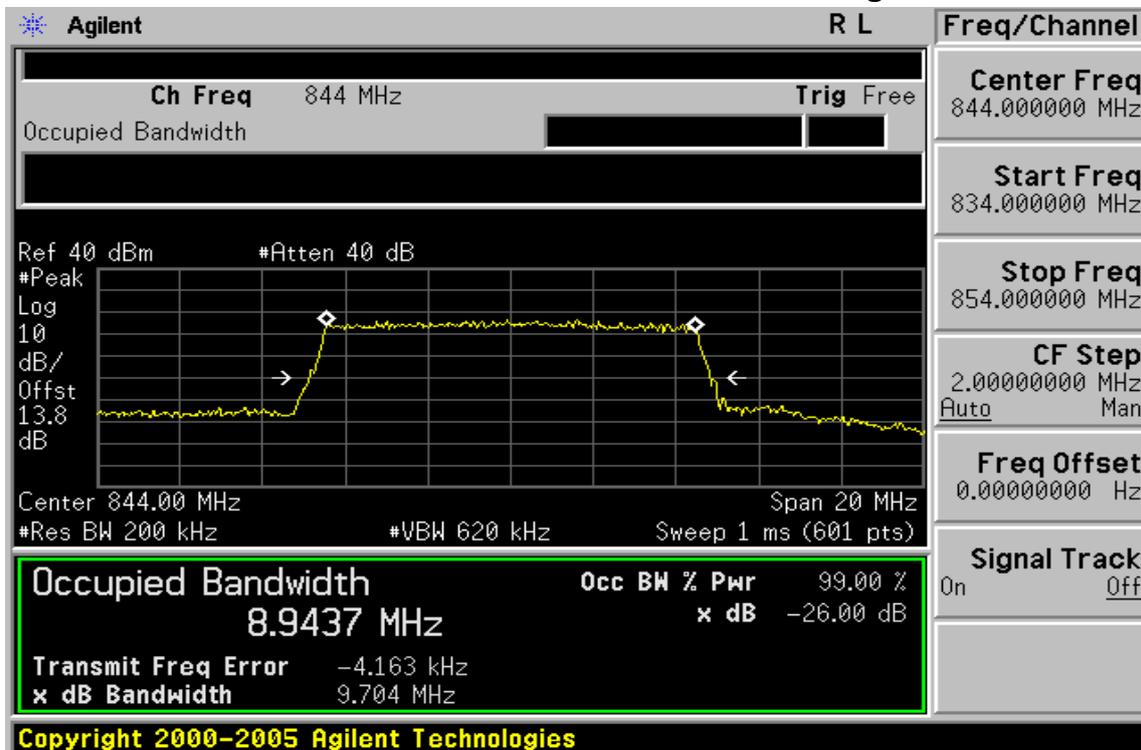
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10MHz BW LTE-Band 5 QPSK Channel Mid



5MHz BW LTE-Band 5 16QAM Channel High



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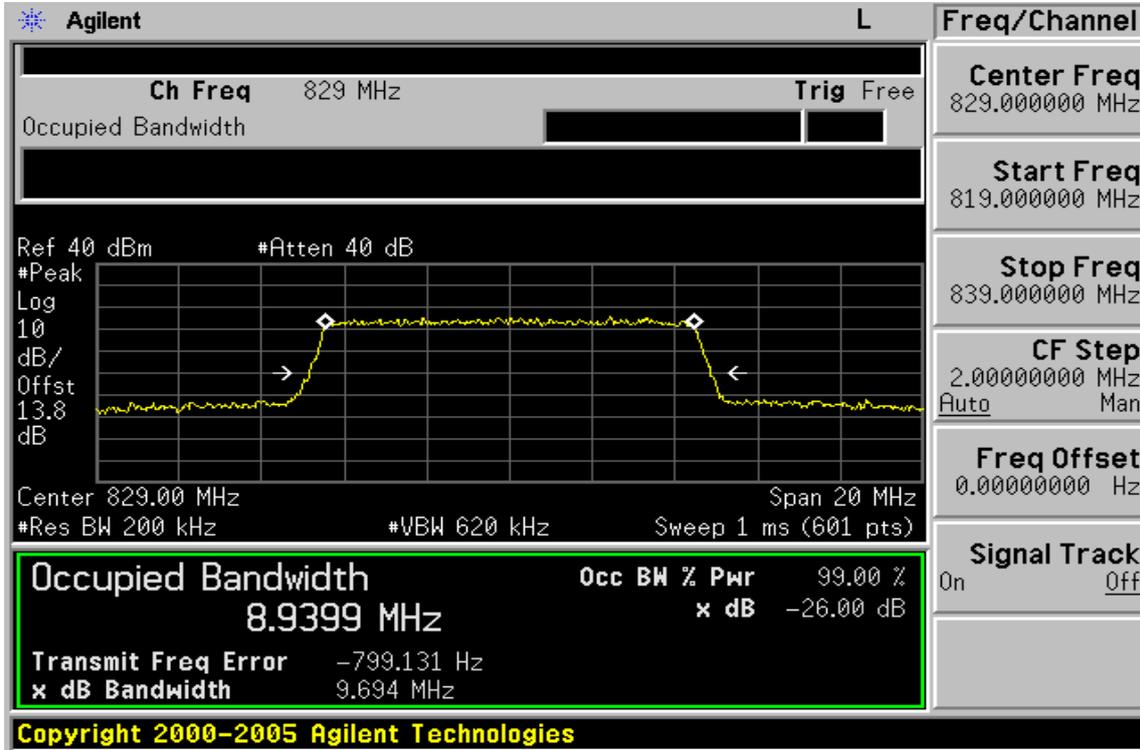
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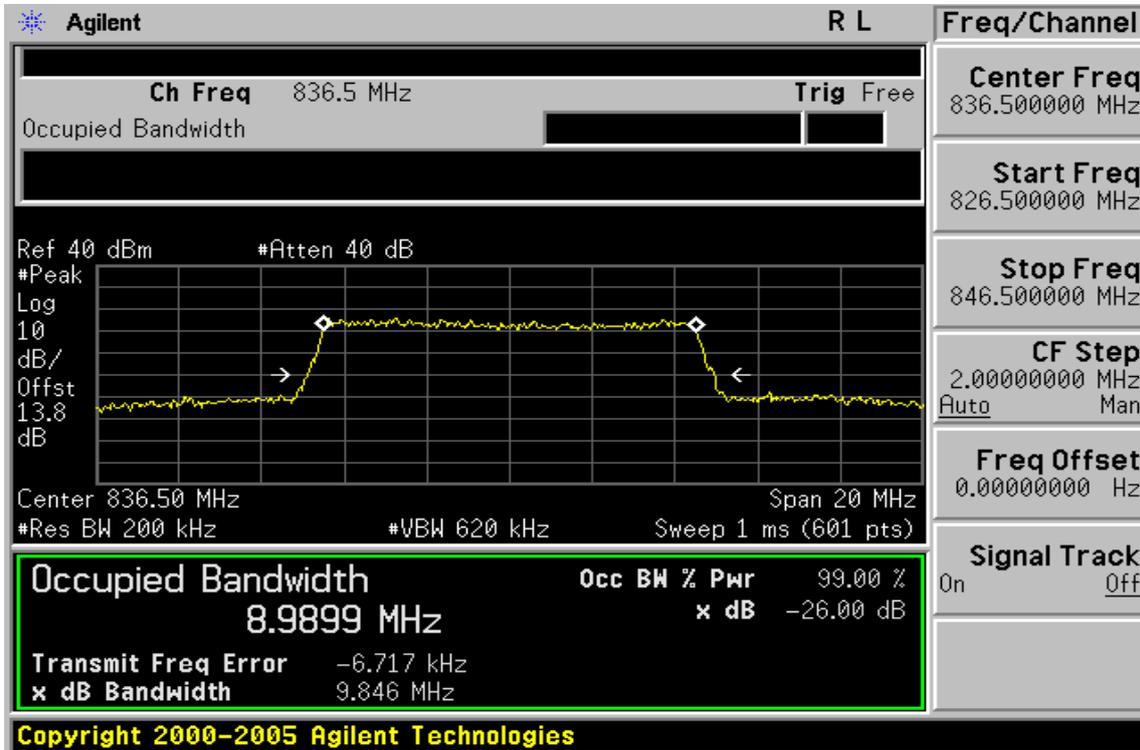
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10MHz BW LTE-Band 5 16QAM Channel Low



10MHz BW LTE-Band 5 16QAM Channel Mid



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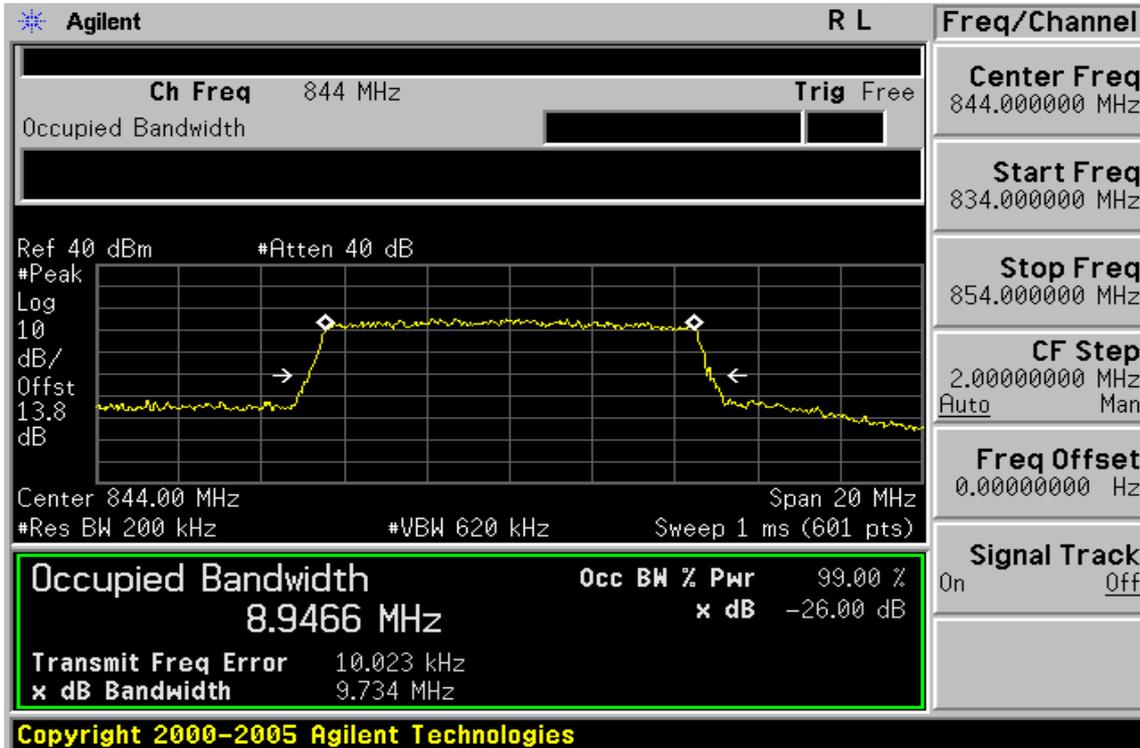
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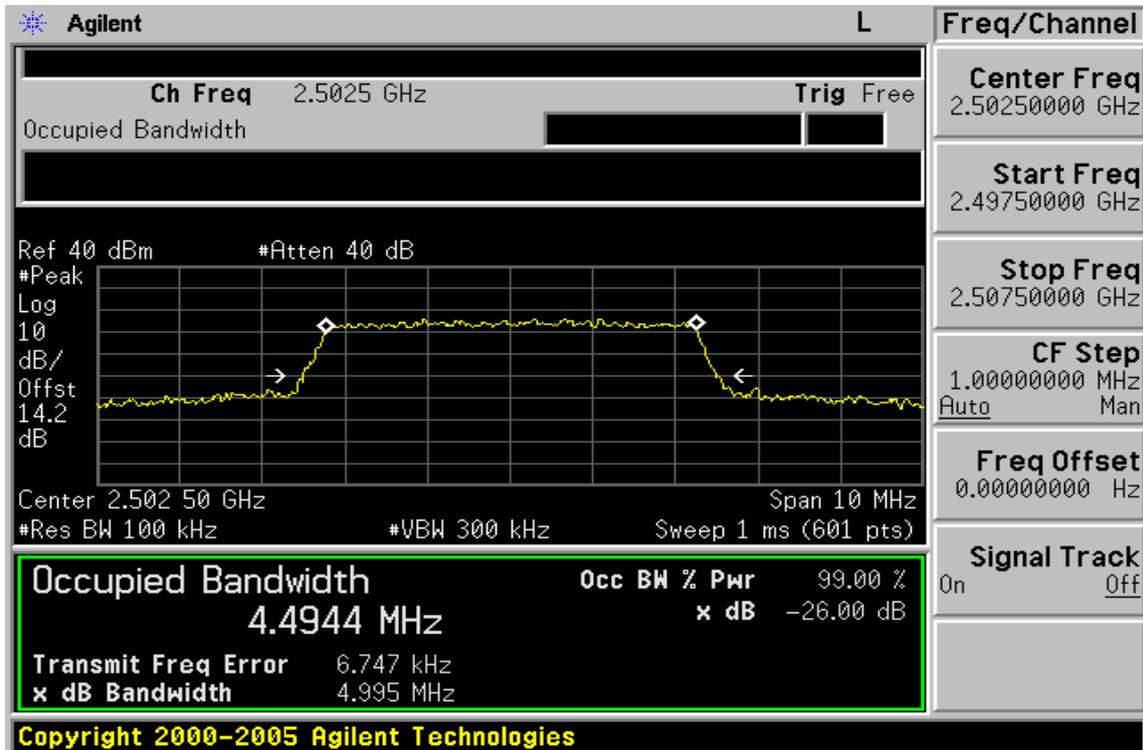
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10MHz BW LTE-Band 5 16QAM Channel High



5MHz BW LTE-Band 7 QPSK Channel Low



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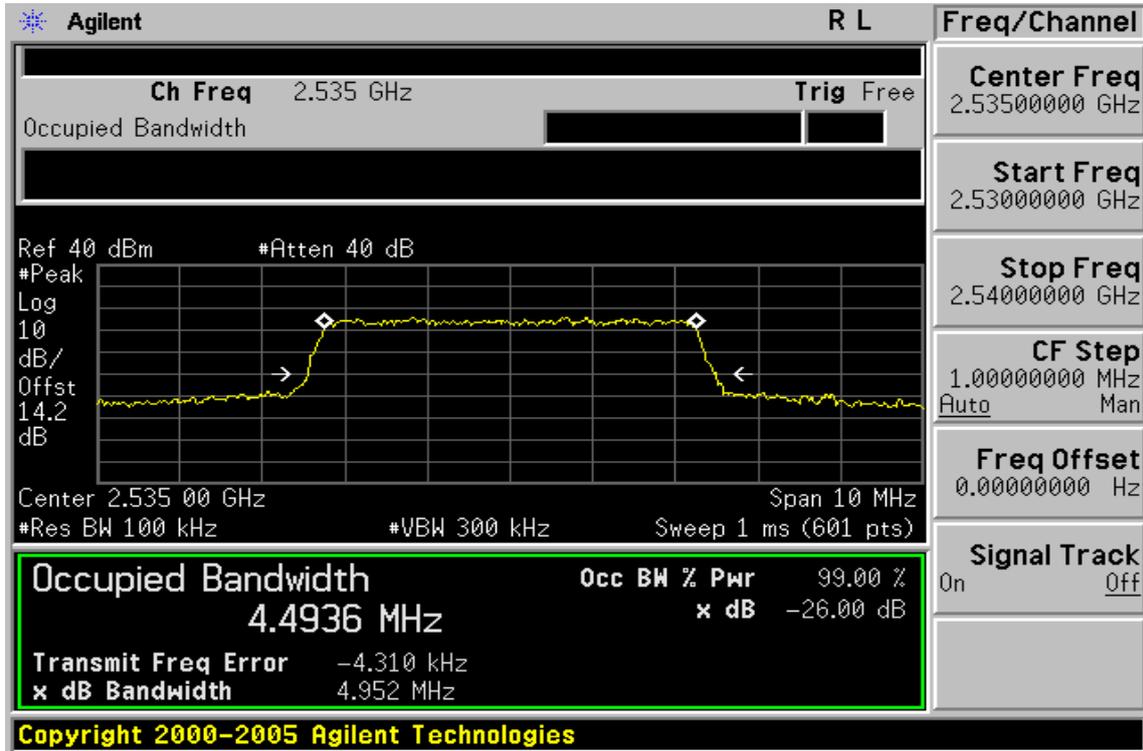
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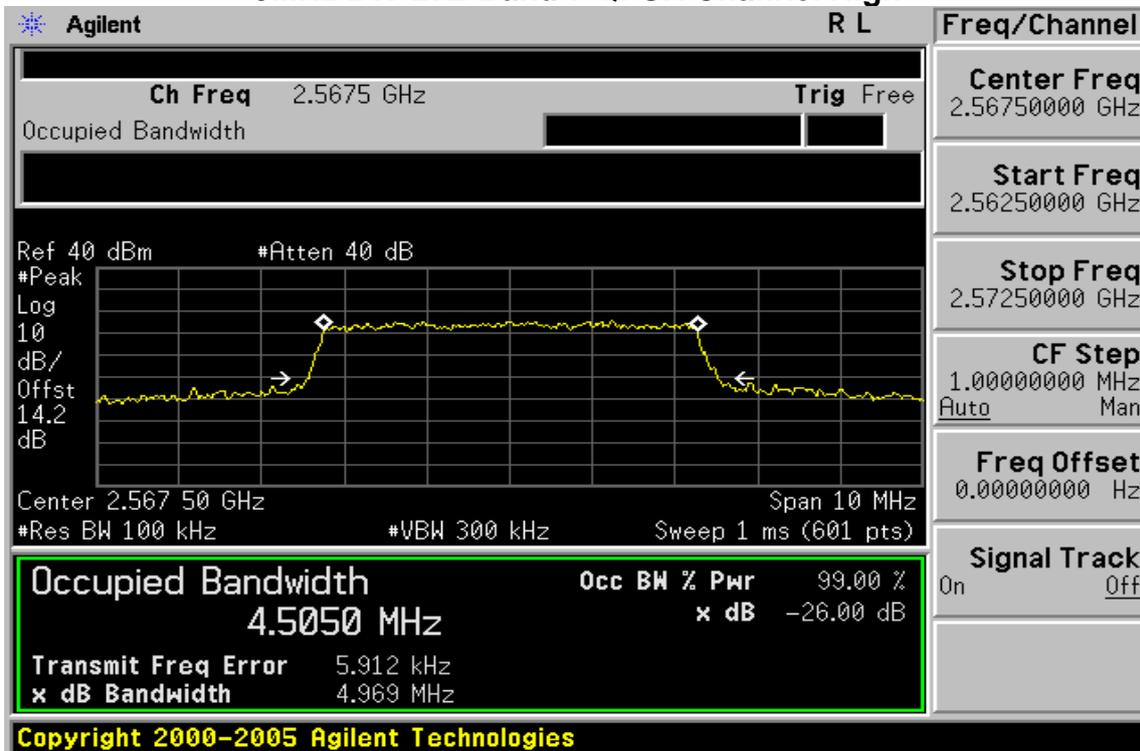
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5MHz BW LTE-Band 7 QPSK Channel Mid



5MHz BW LTE-Band 7 QPSK Channel High



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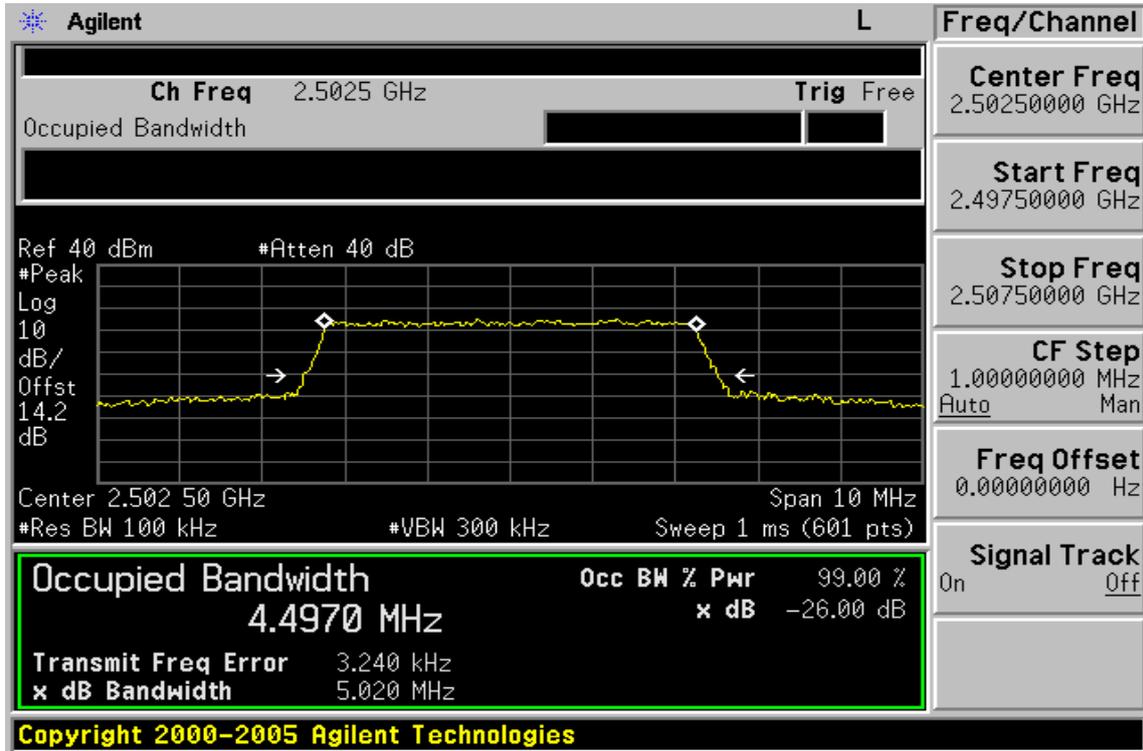
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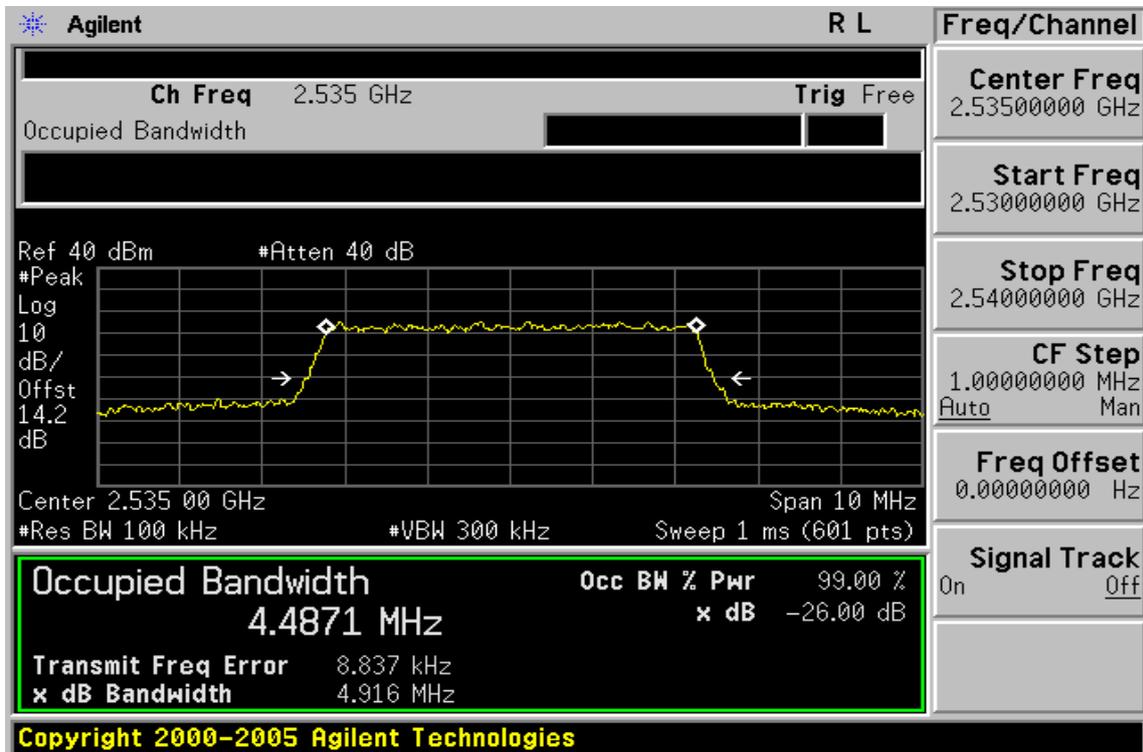
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5MHz BW LTE-Band 7 16QAM Channel Low



5MHz BW LTE-Band 7 16QAM Channel Mid



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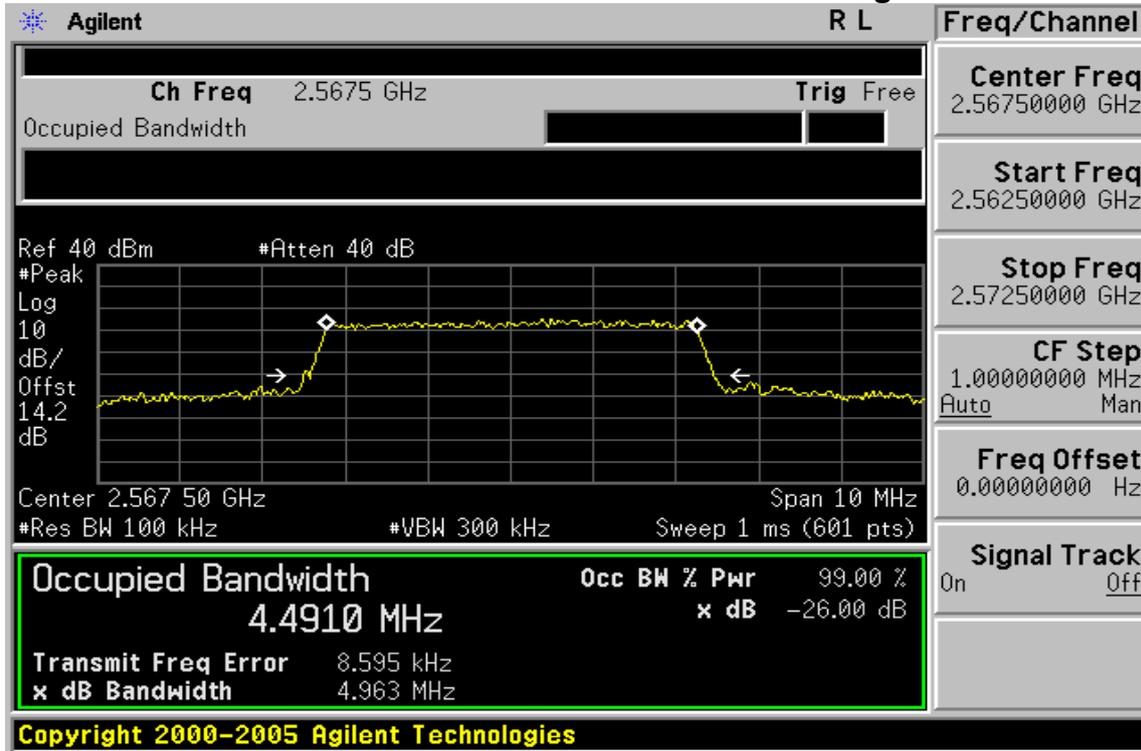
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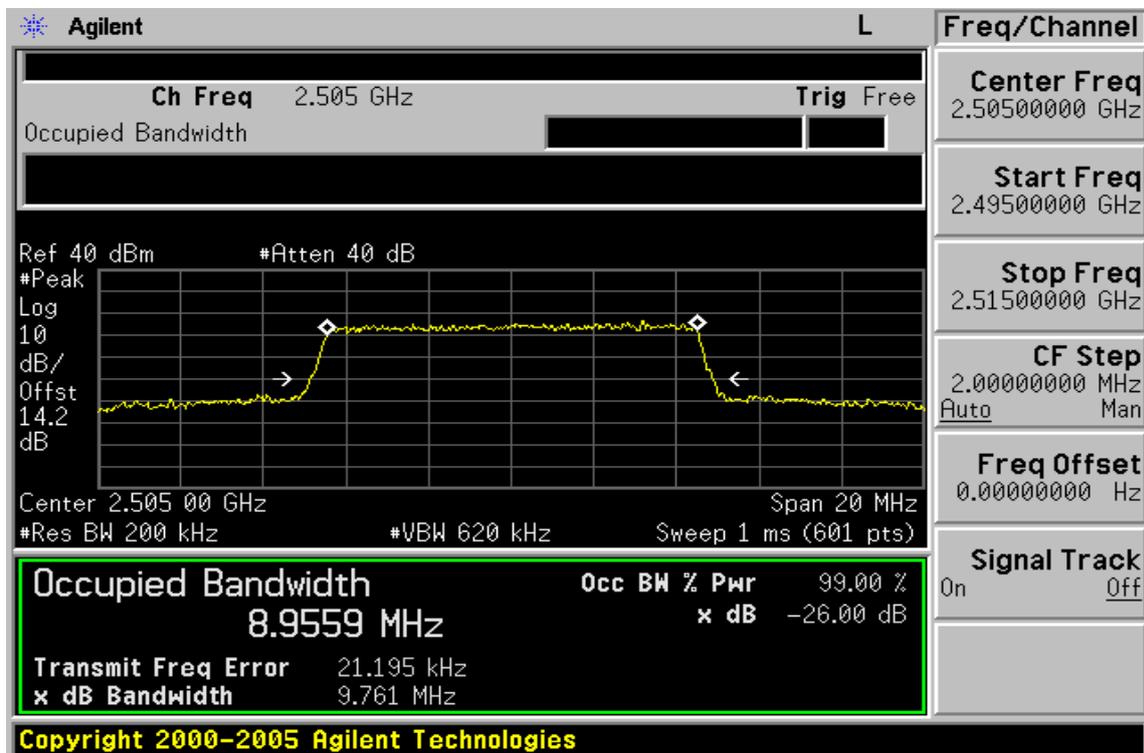
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5MHz BW LTE-Band 7 16QAM Channel High



10MHz BW LTE-Band 7 QPSK Channel Low



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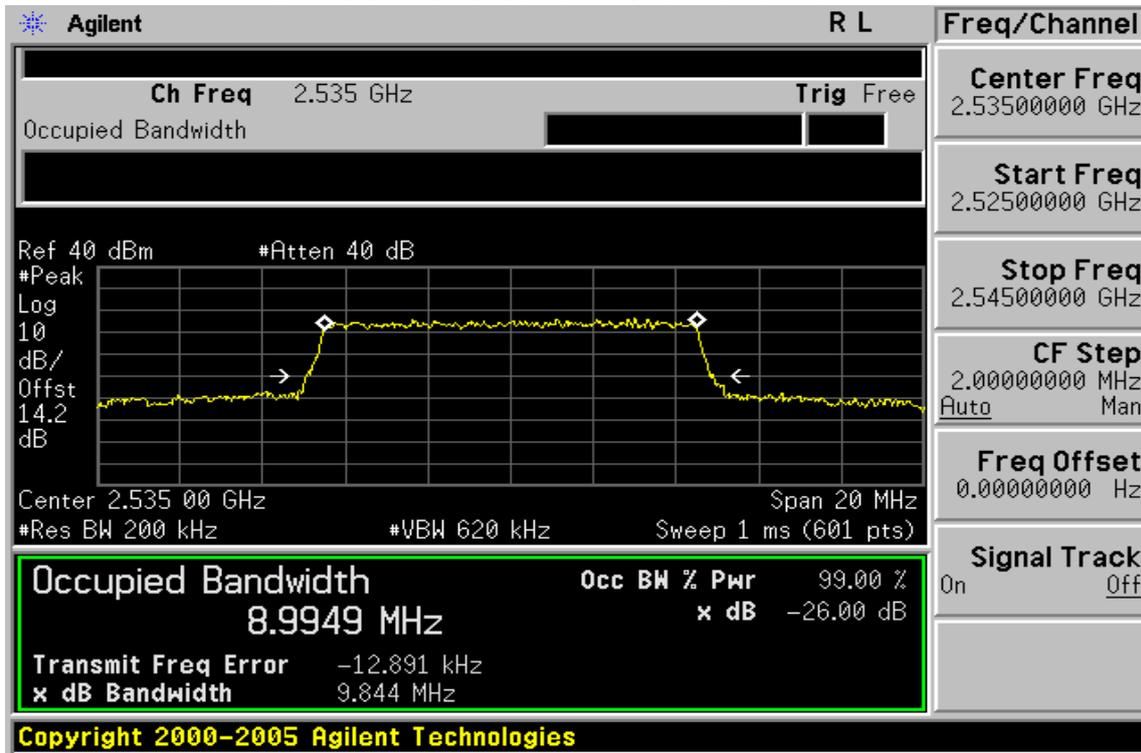
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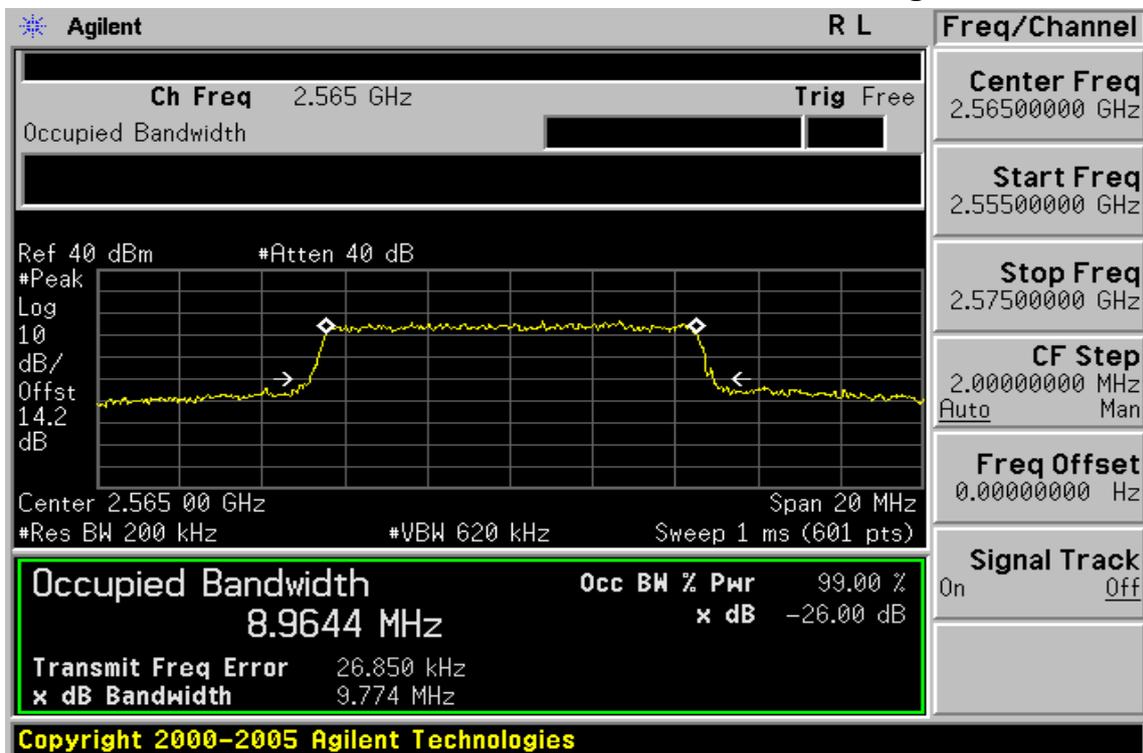
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10MHz BW LTE-Band 7 QPSK Channel Mid



10MHz BW LTE-Band 7 QPSK RB Channel High



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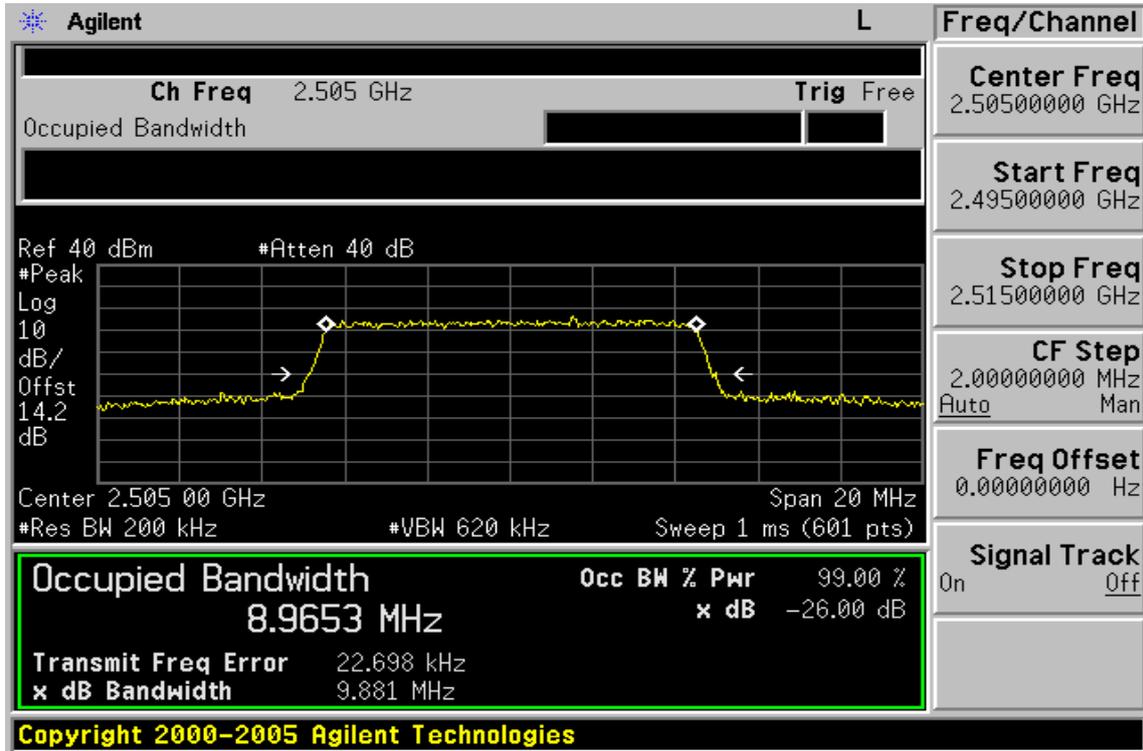
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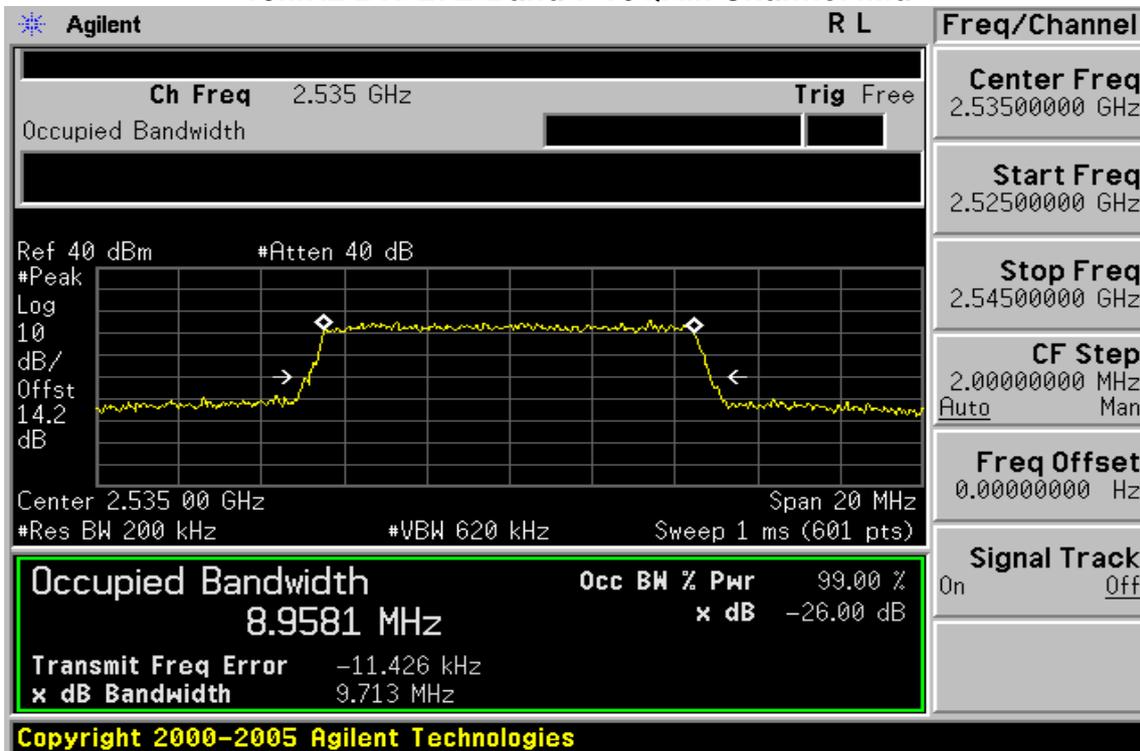
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10MHz BW LTE-Band 7 16QAM Channel Low



10MHz BW LTE-Band 7 16QAM Channel Mid



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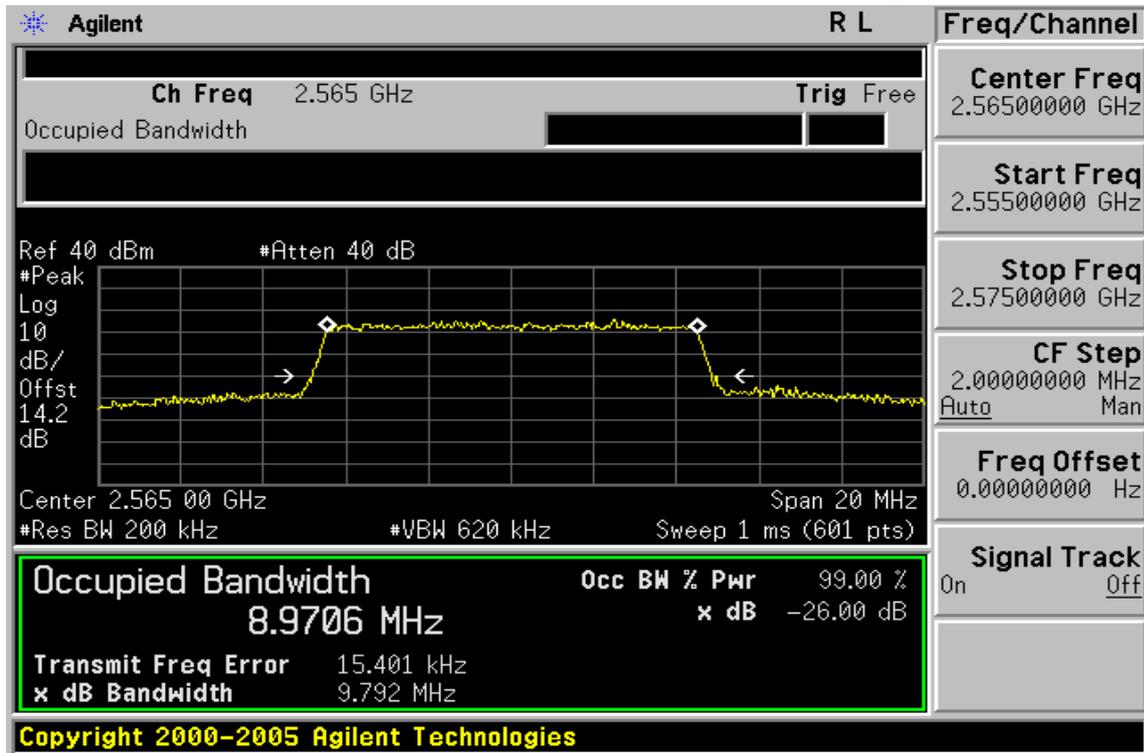
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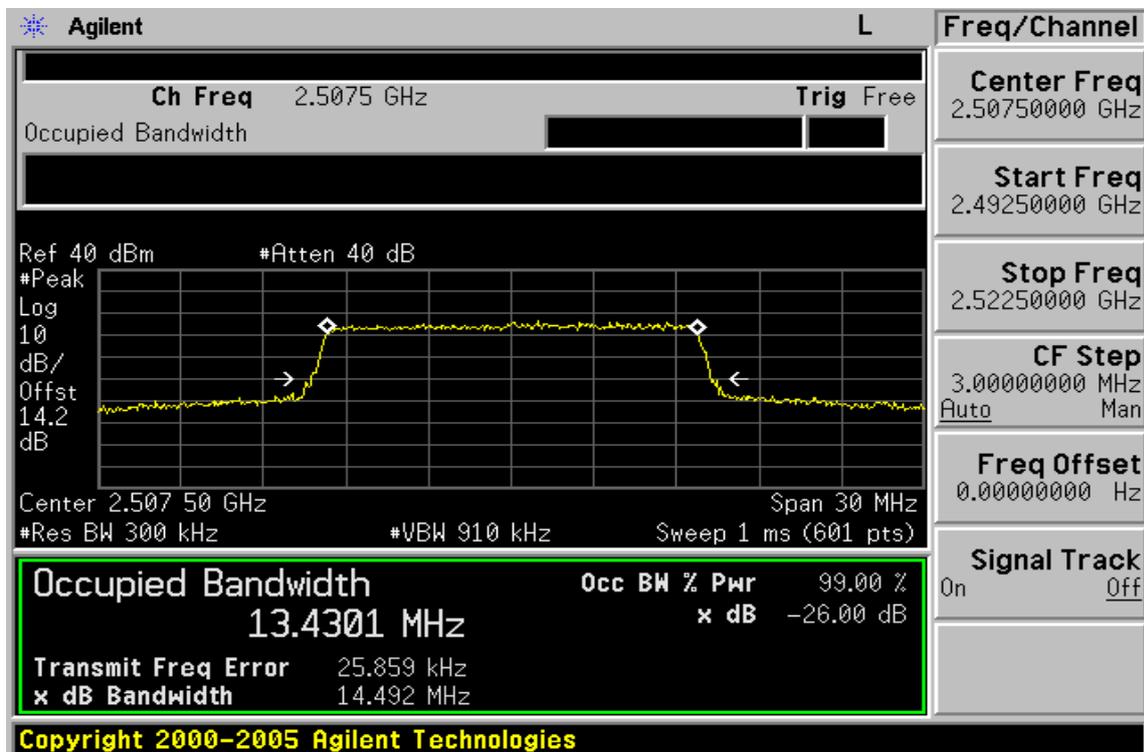
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10MHz BW LTE-Band 7 16QAM Channel High



15MHz BW LTE-Band 7 QPSK Channel Low



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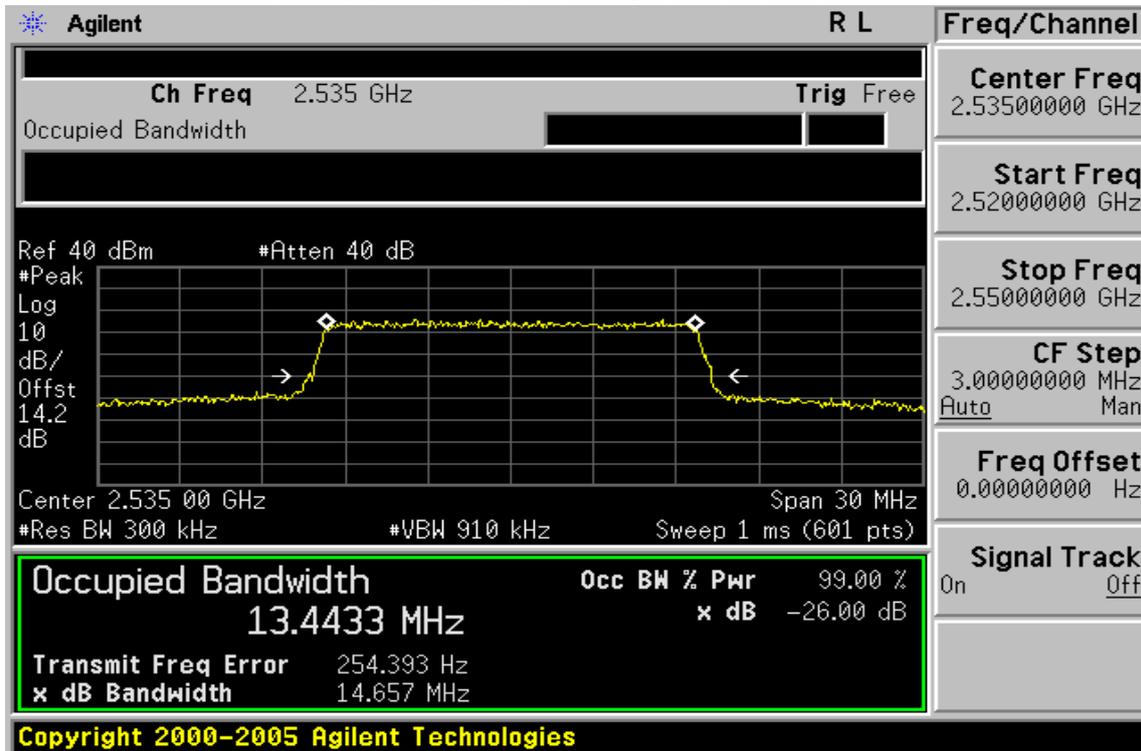
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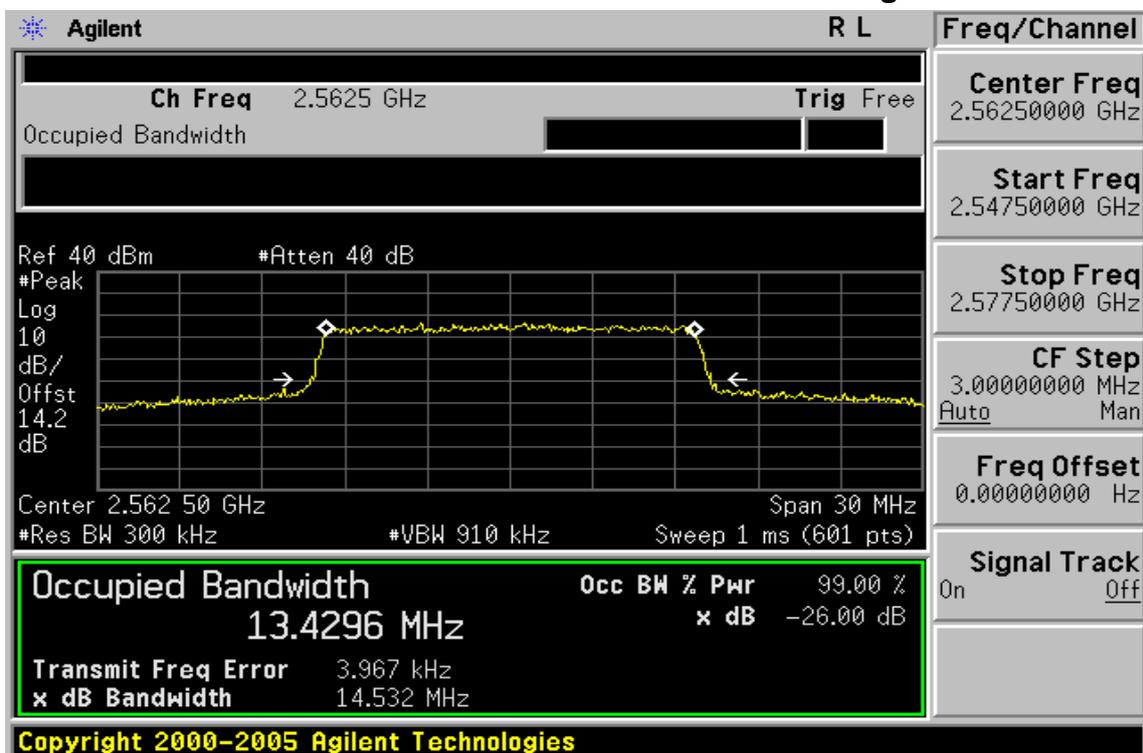
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15MHz BW LTE-Band 7 QPSK Channel Mid



15MHz BW LTE-Band 7 QPSK Channel High



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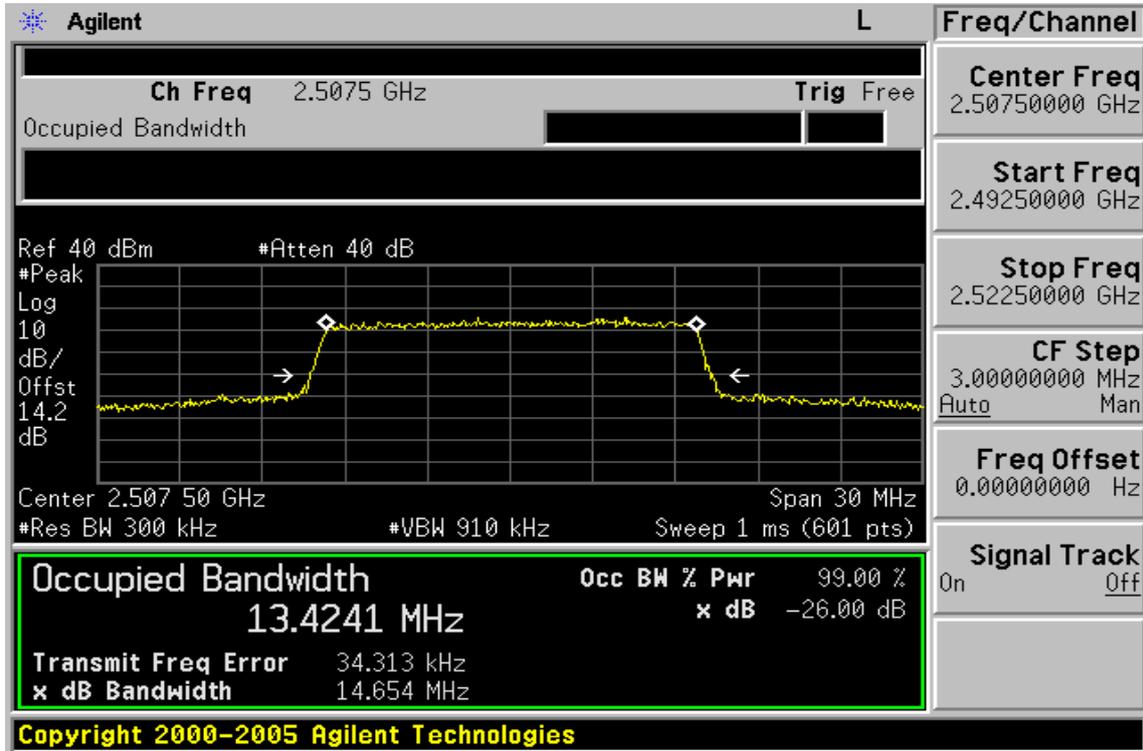
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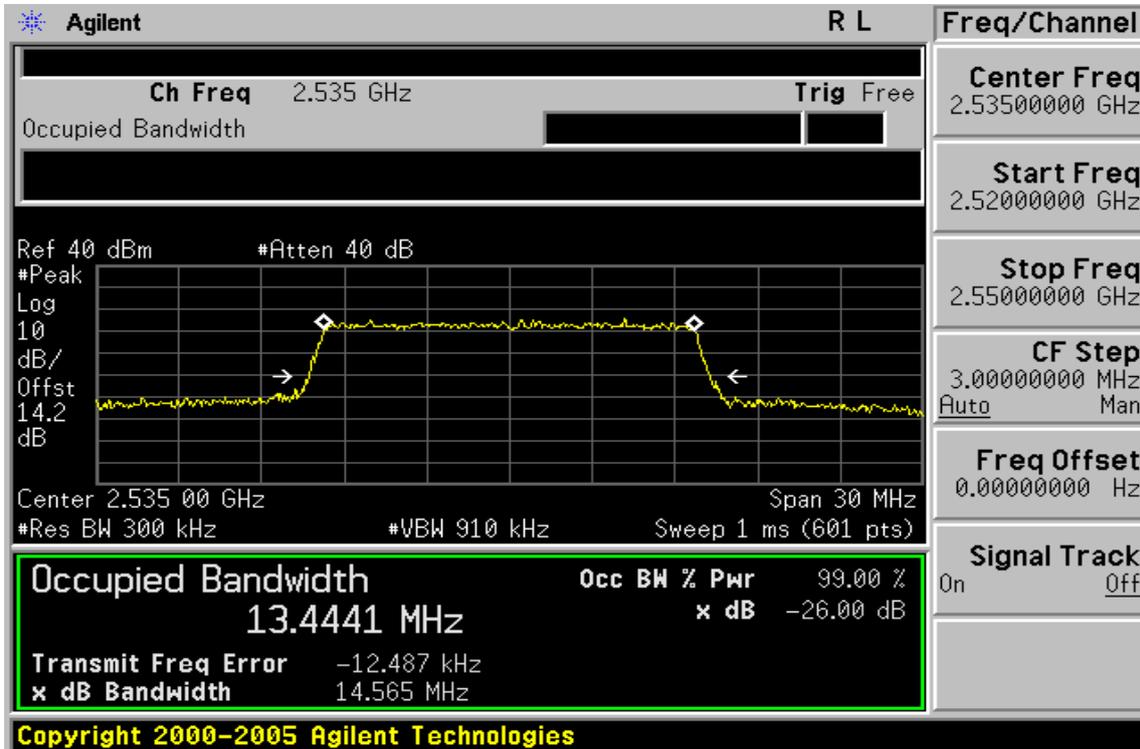
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15MHz BW LTE-Band 7 16QAM Channel Low



15MHz BW LTE-Band 7 16QAM Channel Mid



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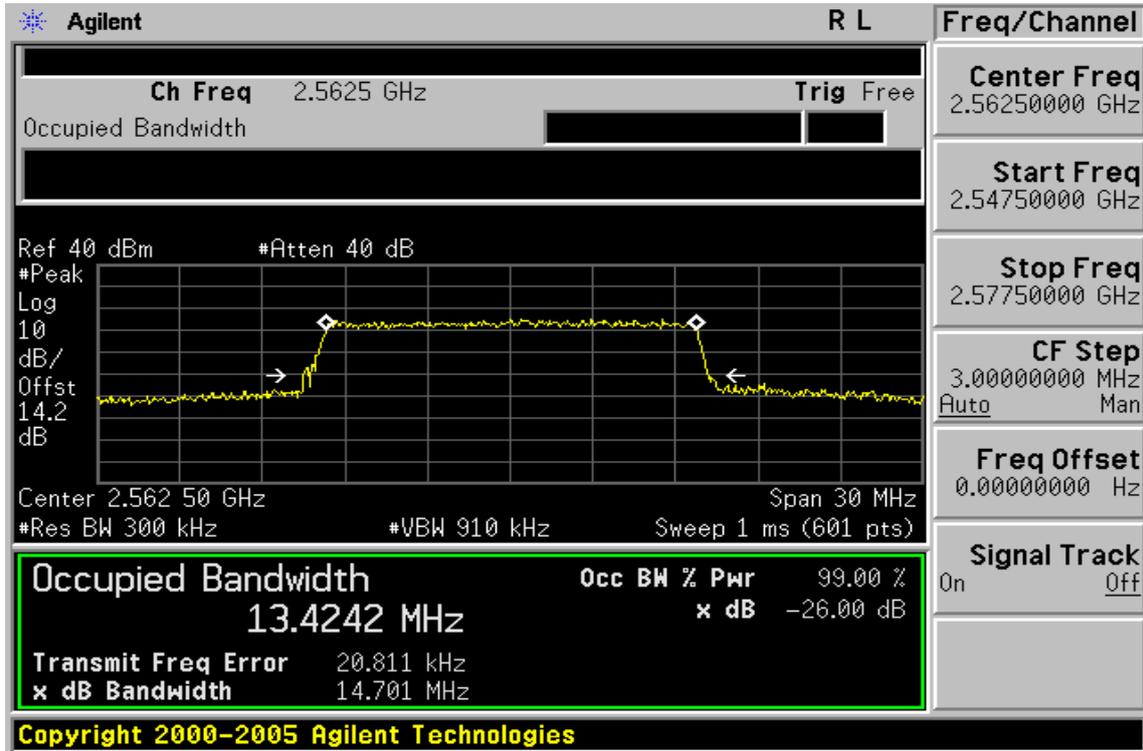
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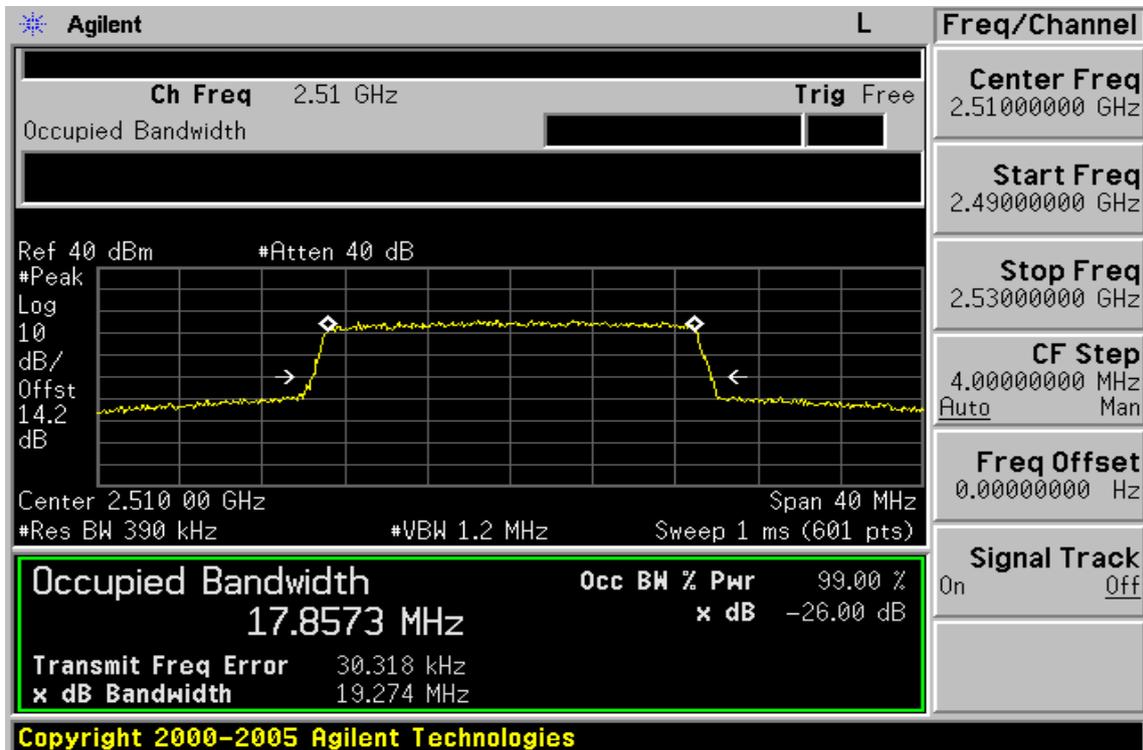
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15MHz BW LTE-Band 7 16QAM Channel High



20MHz BW LTE-Band 7 QPSK Channel Low



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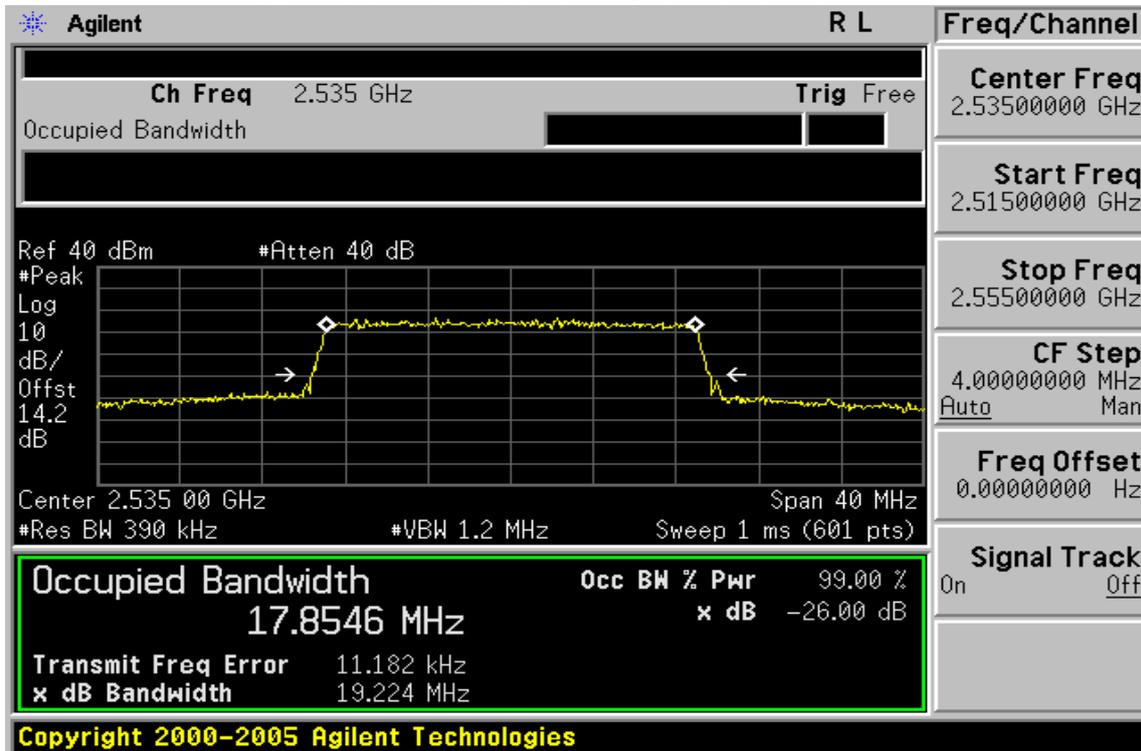
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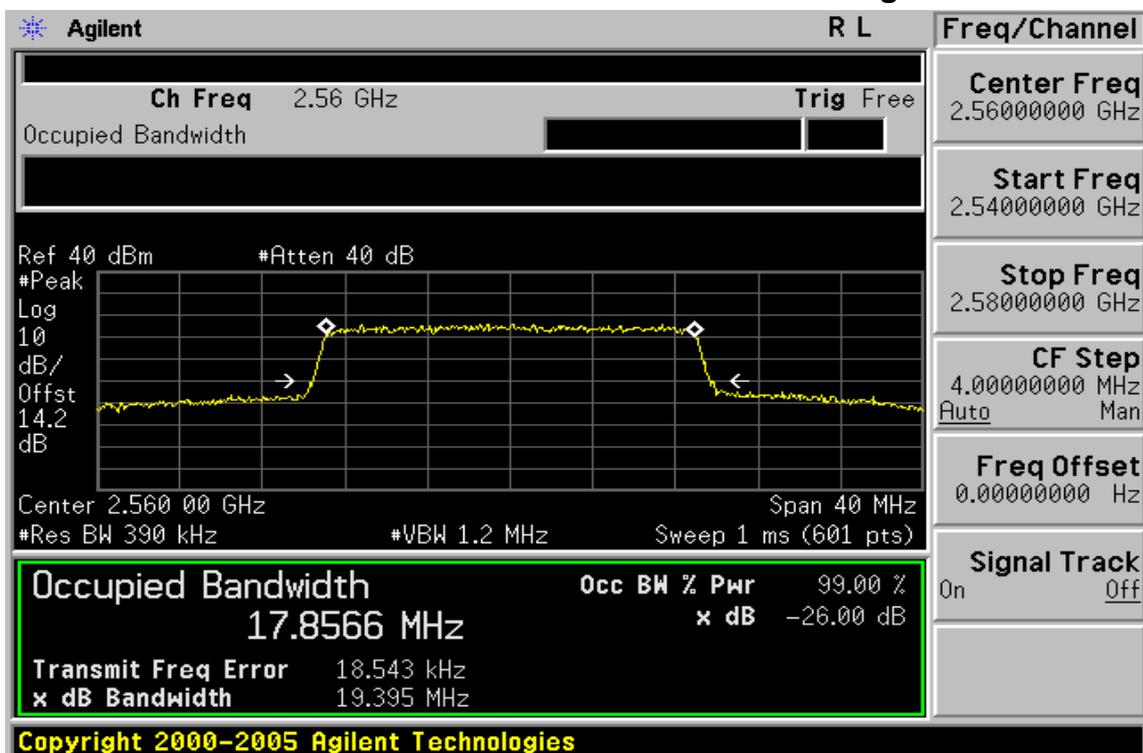
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20MHz BW LTE-Band 7 QPSK Channel Mid



20MHz BW LTE-Band 7 QPSK Channel High



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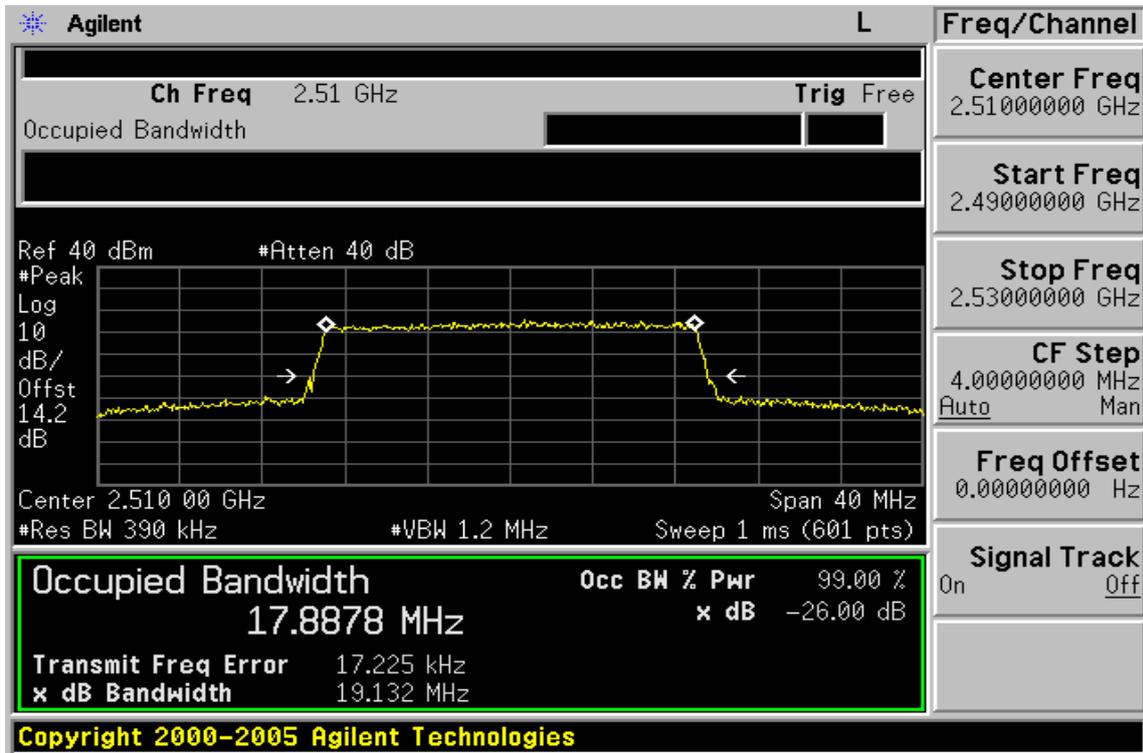
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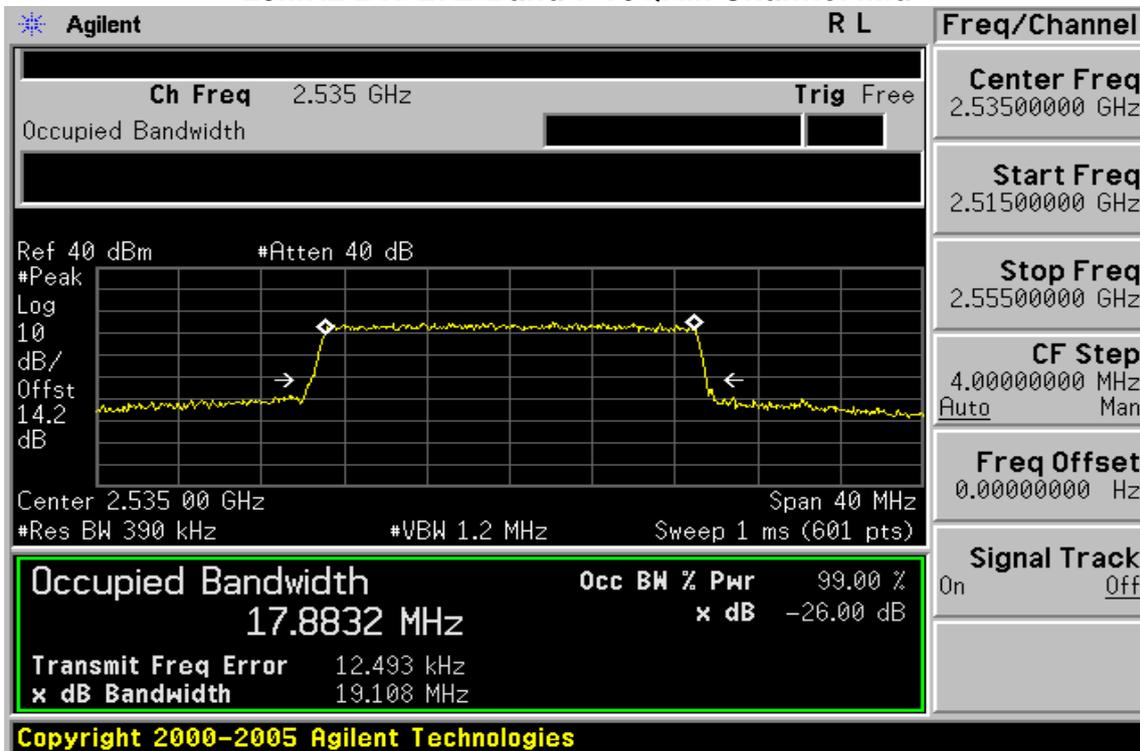
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20MHz BW LTE-Band 7 16QAM Channel Low



20MHz BW LTE-Band 7 16QAM Channel Mid



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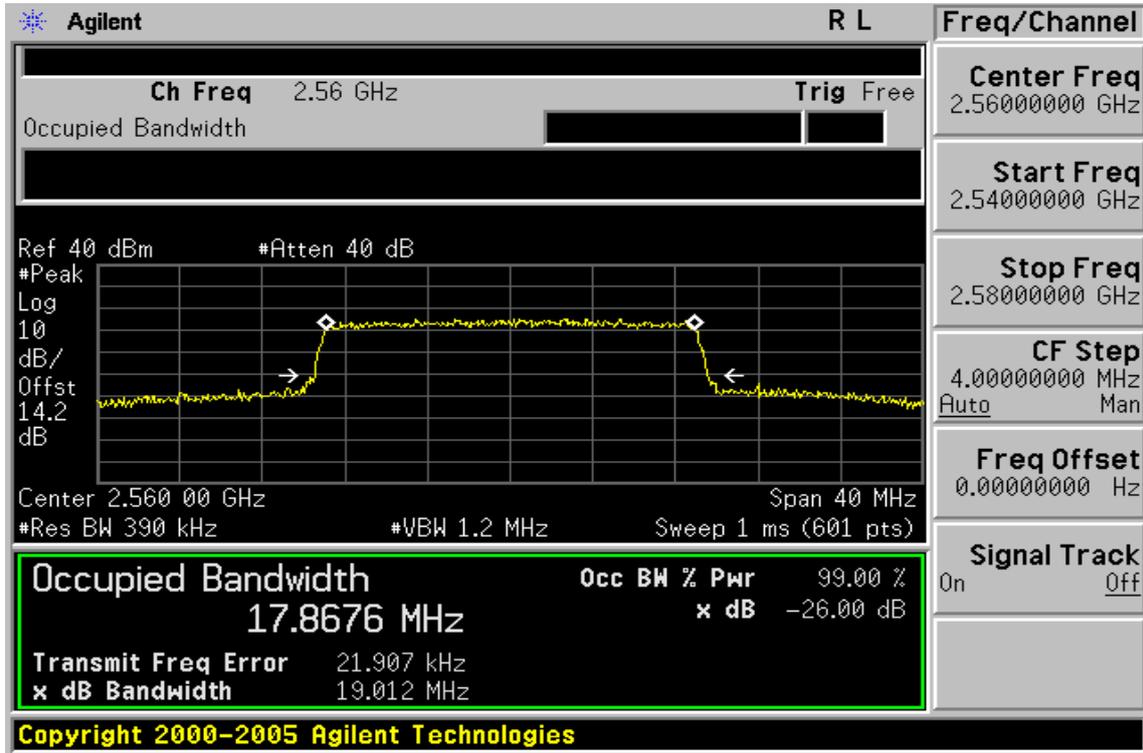
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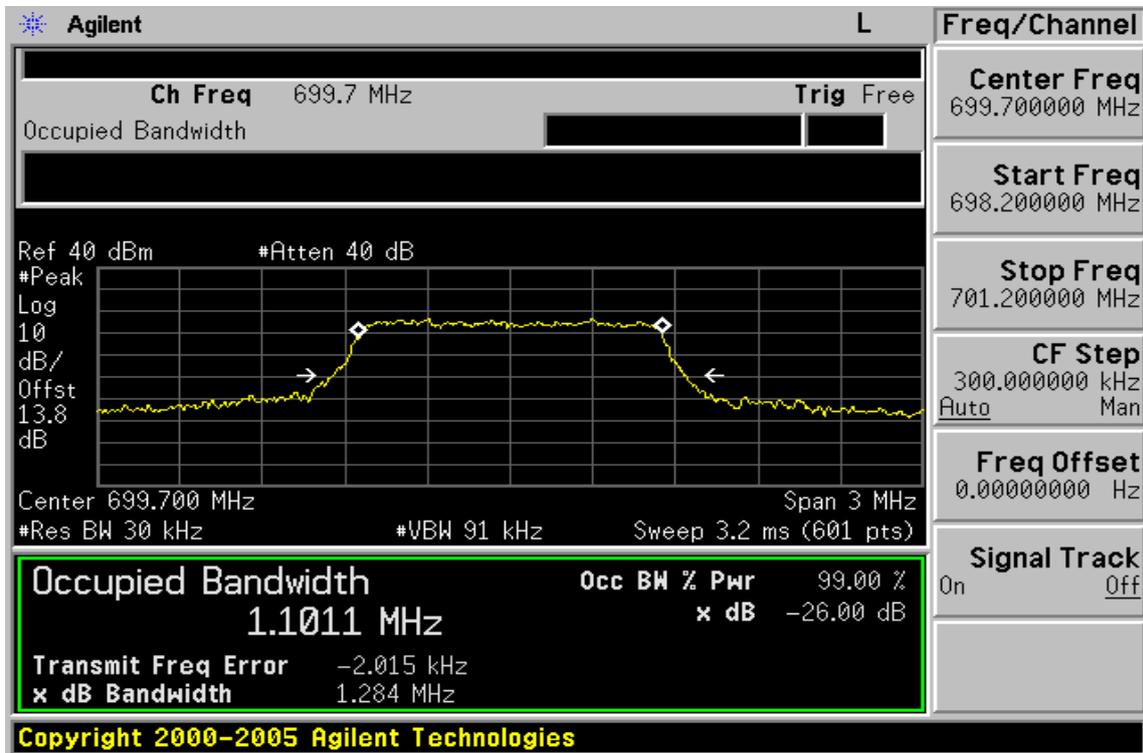
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20MHz BW LTE-Band 7 16QAM Channel High



1.4MHz BW LTE-Band 12 QPSK Channel Low



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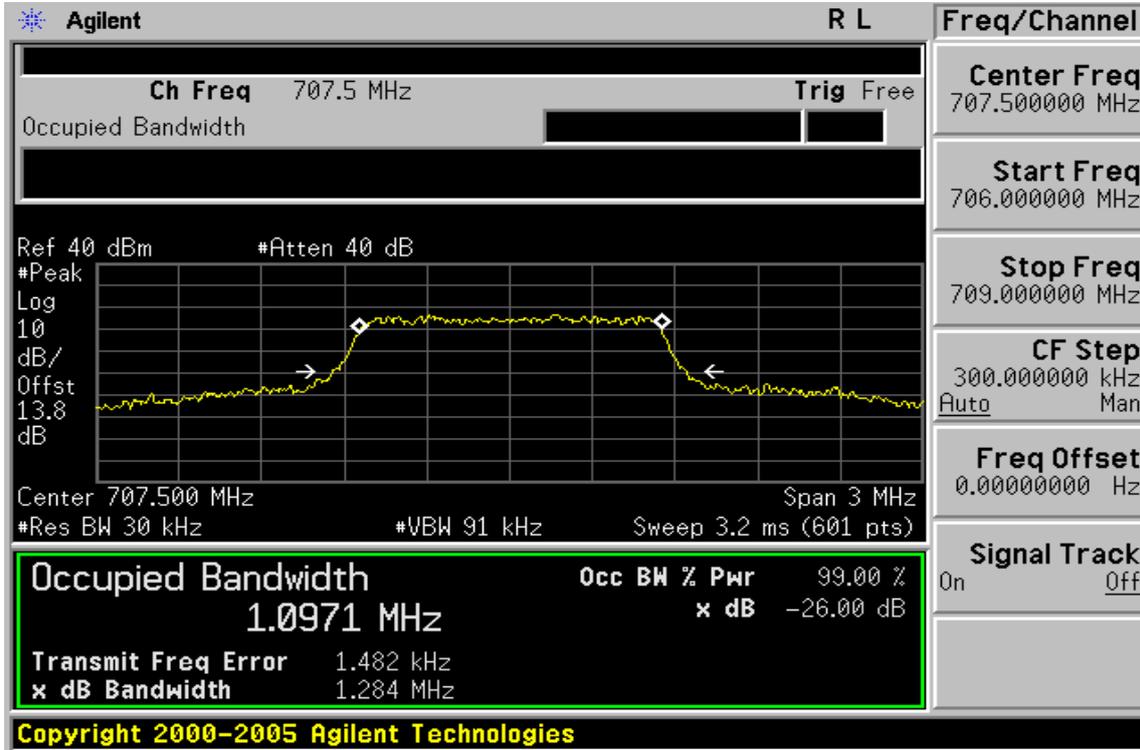
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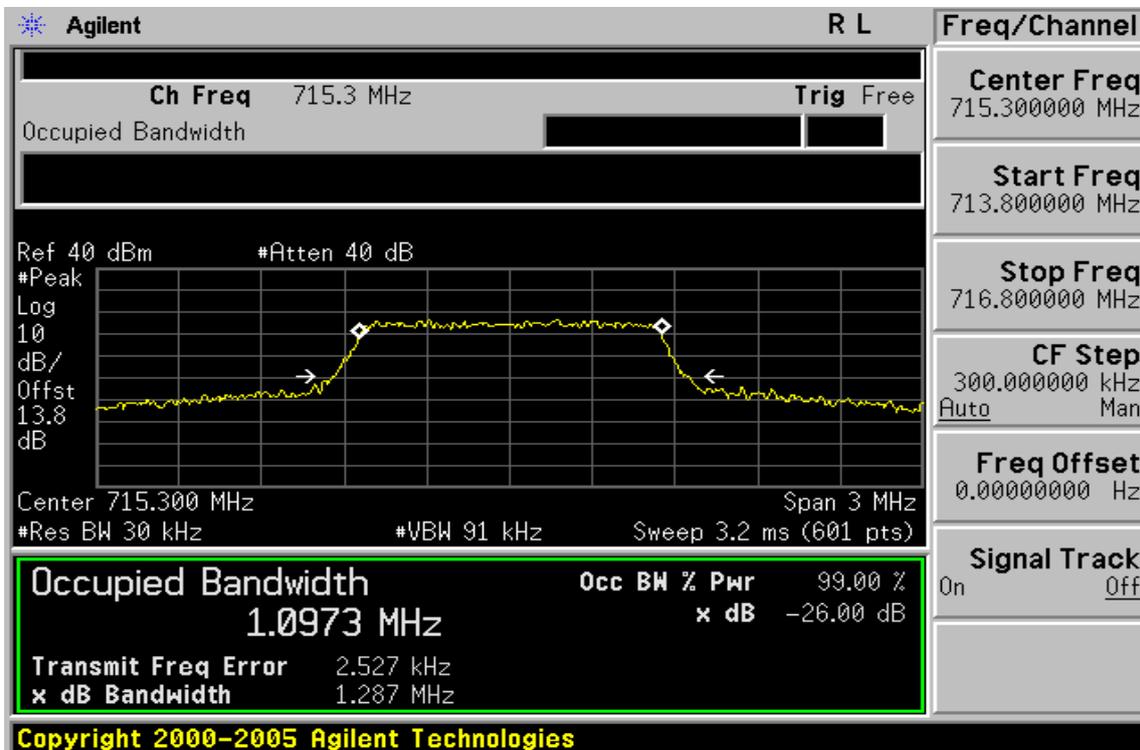
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1.4MHz BW LTE-Band 12 QPSK Channel Mid



1.4MHz BW LTE-Band 12 QPSK Channel High



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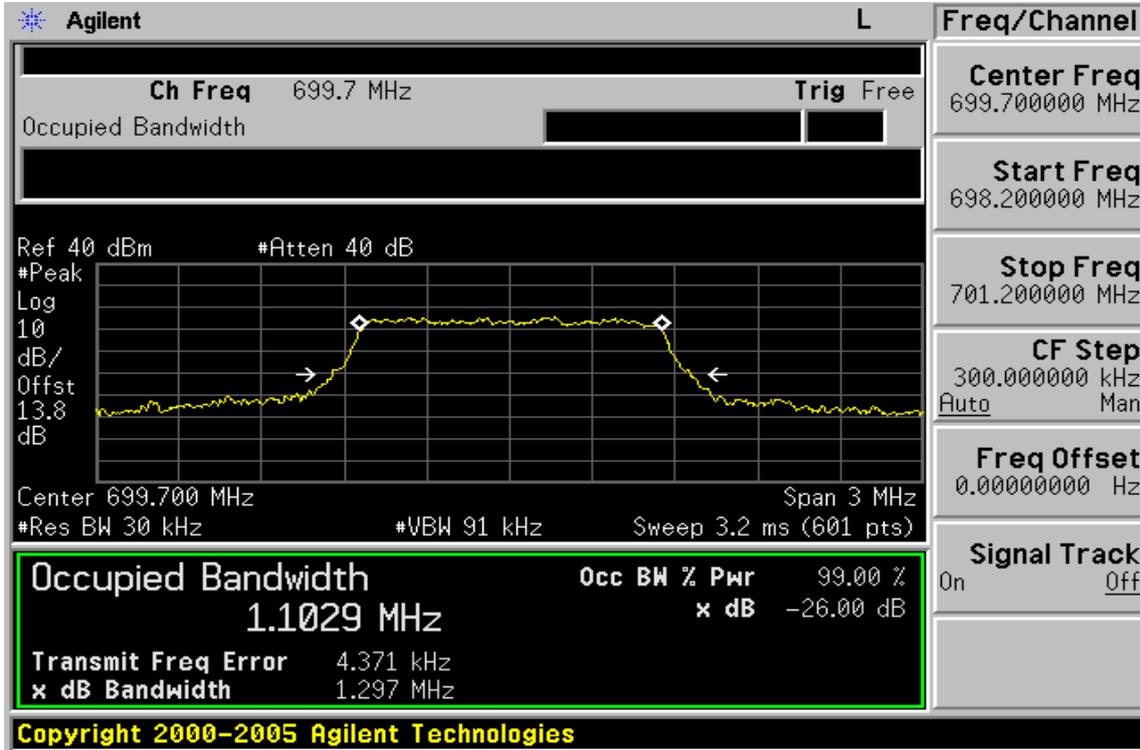
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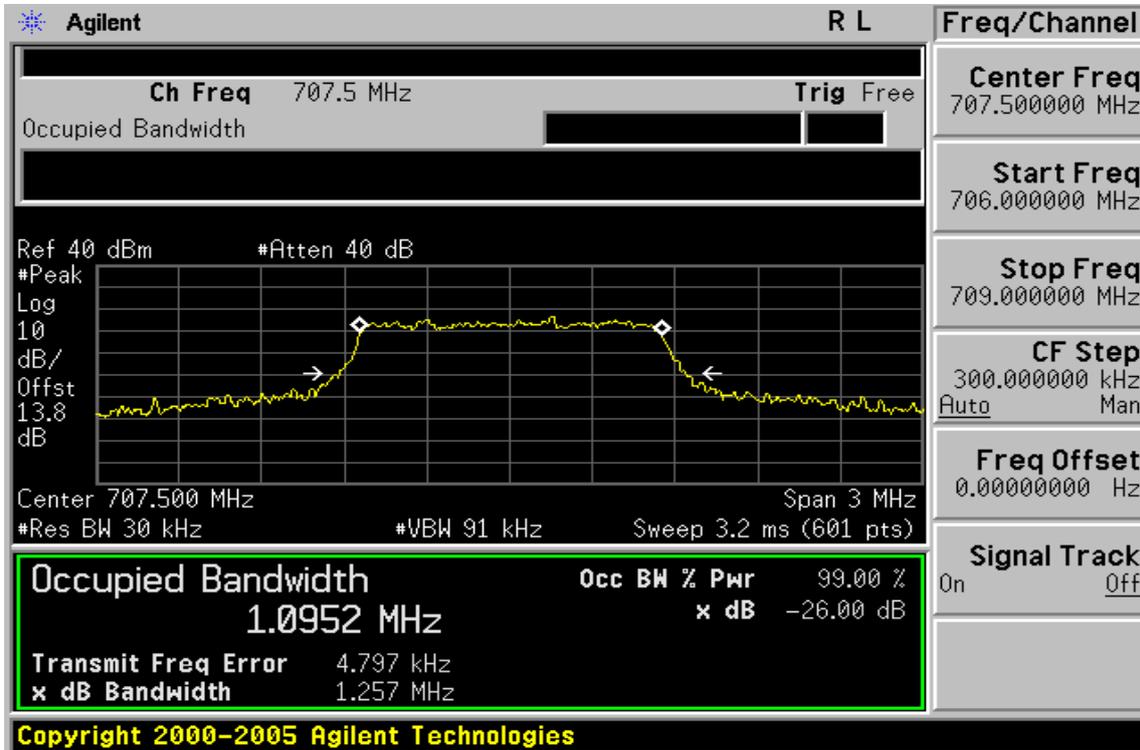
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1.4MHz BW LTE-Band 12 16QAM Channel Low



1.4MHz BW LTE-Band 12 16QAM Channel Mid



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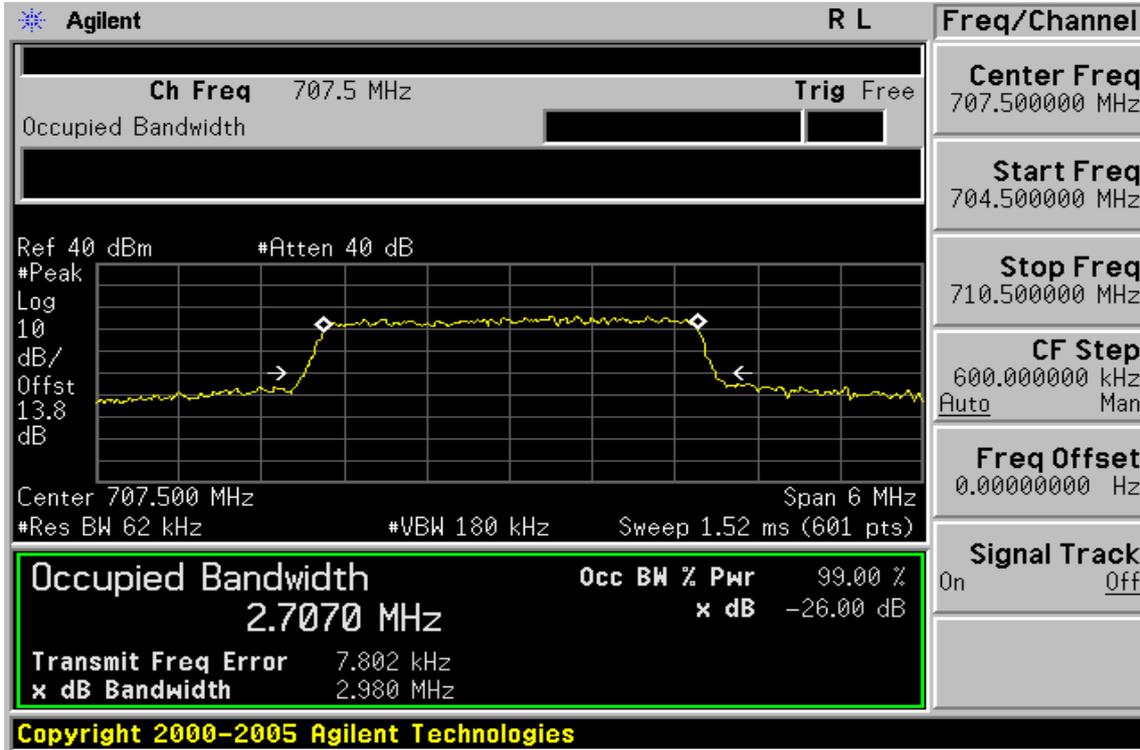
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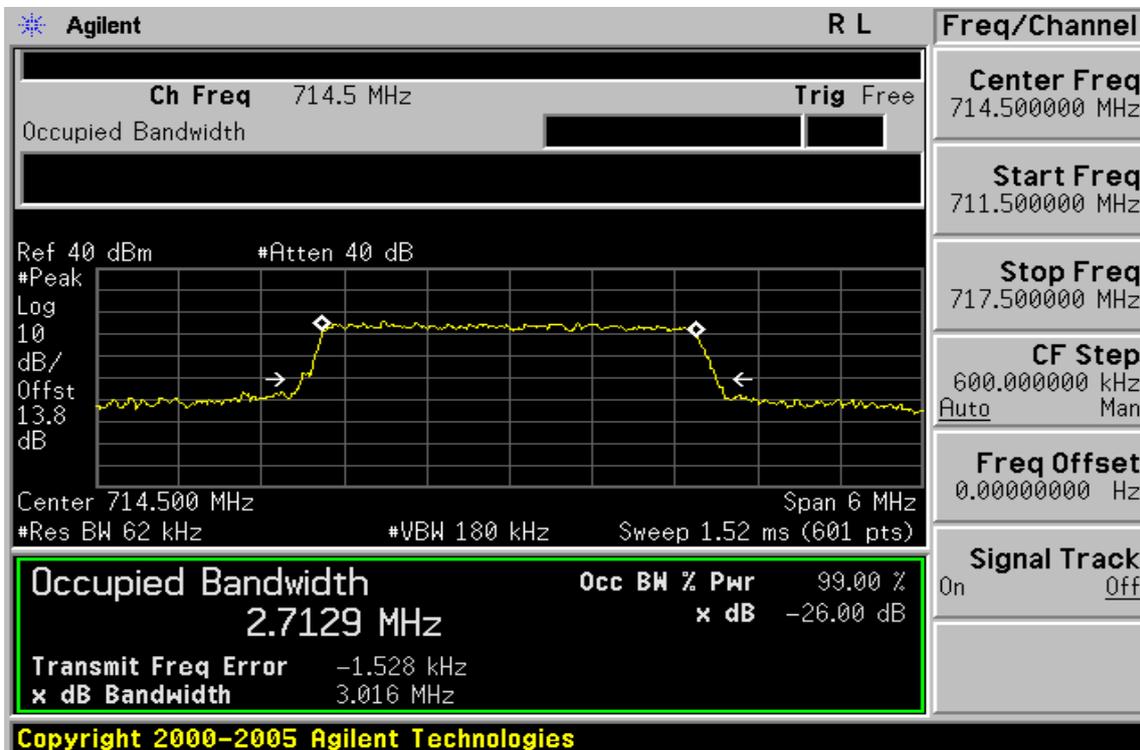
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3MHz BW LTE-Band 12 QPSK Channel Mid



3MHz BW LTE-Band 12 QPSK Channel High



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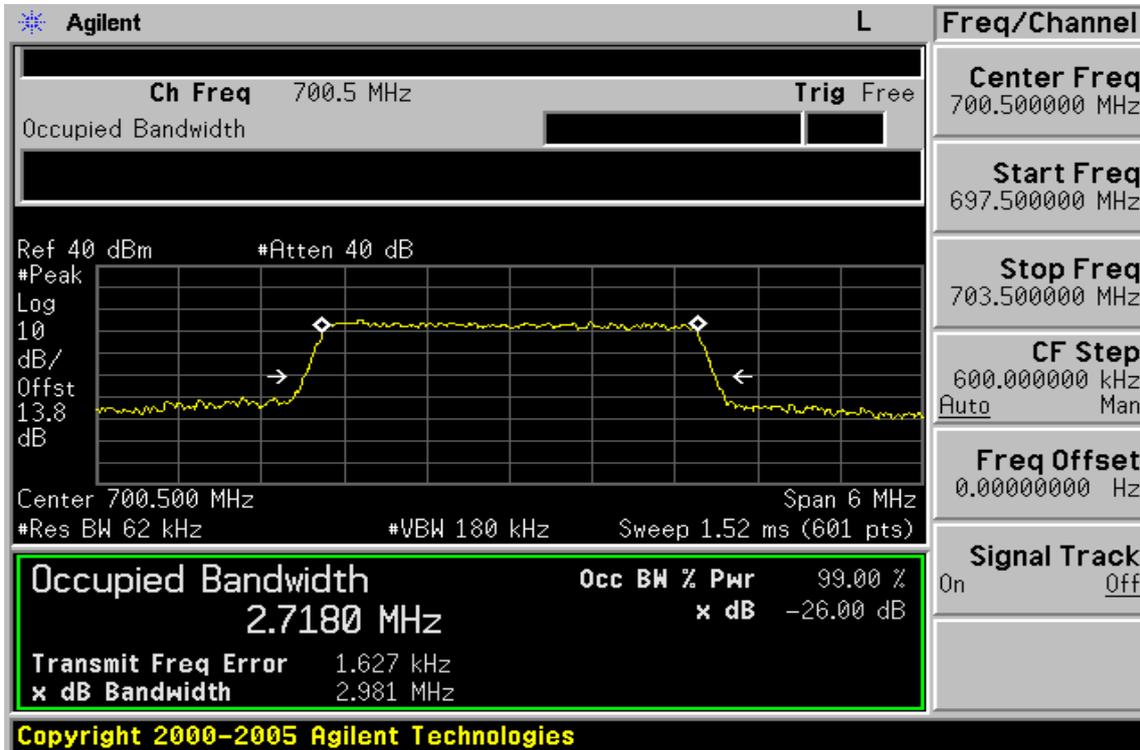
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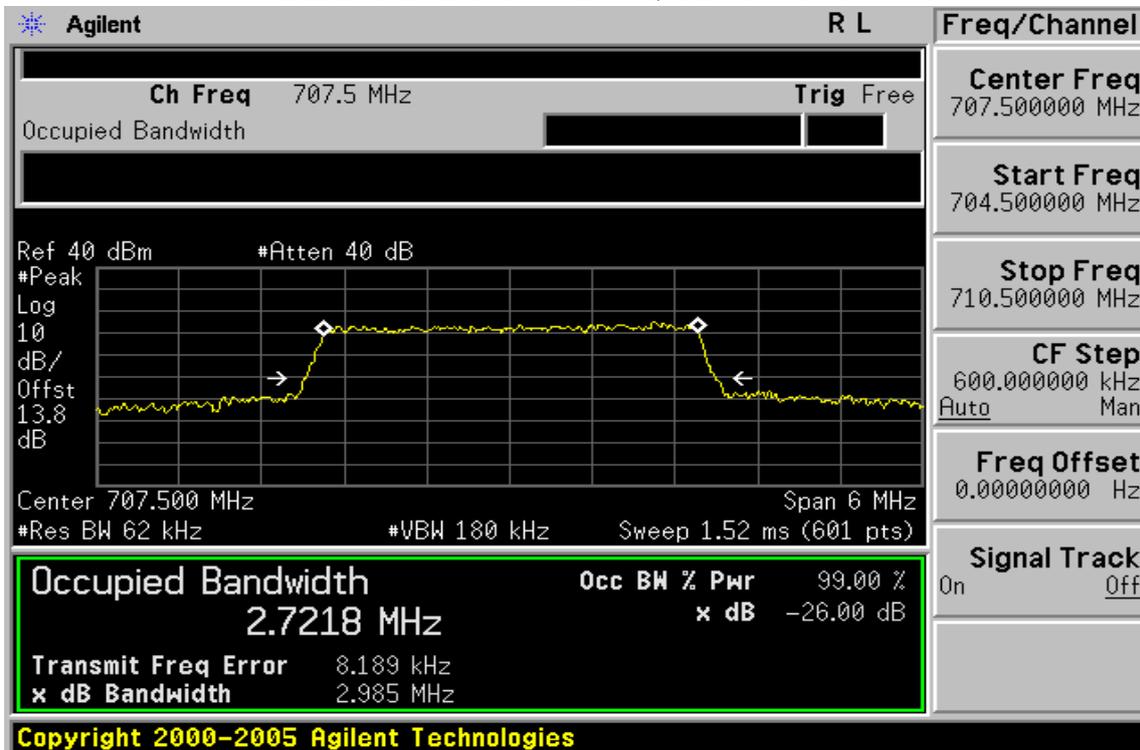
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3MHz BW LTE-Band 12 16QAM Channel Low



3MHz BW LTE-Band 12 16QAM Channel Mid



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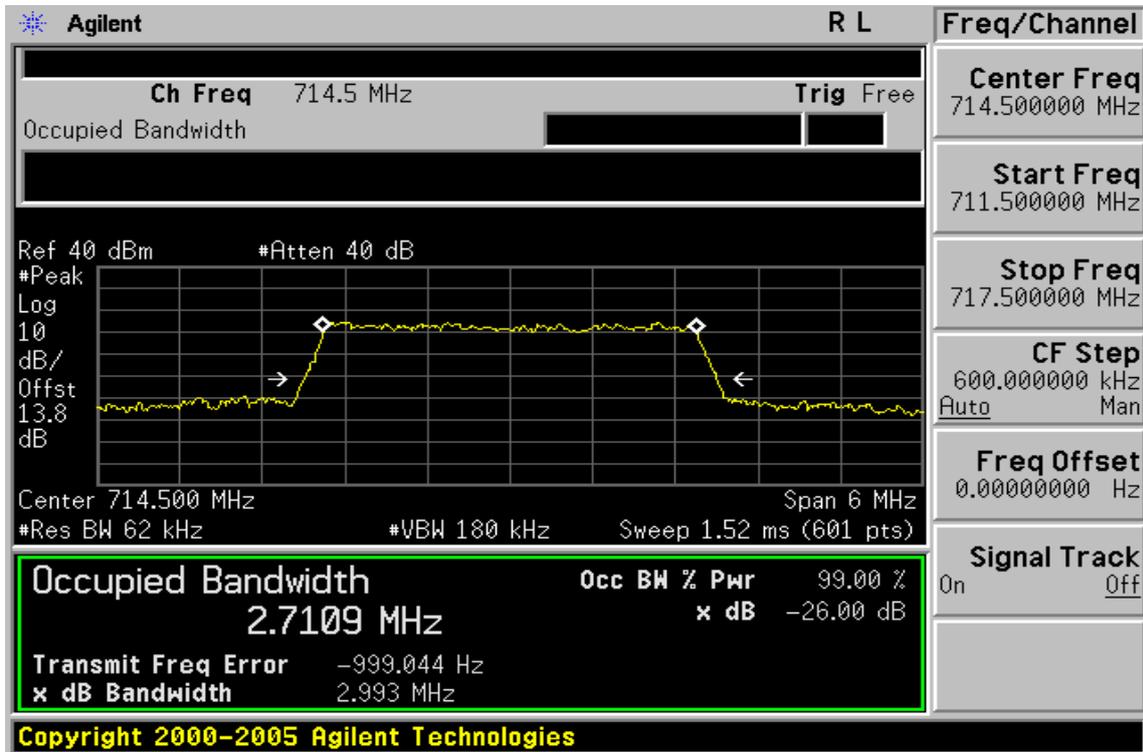
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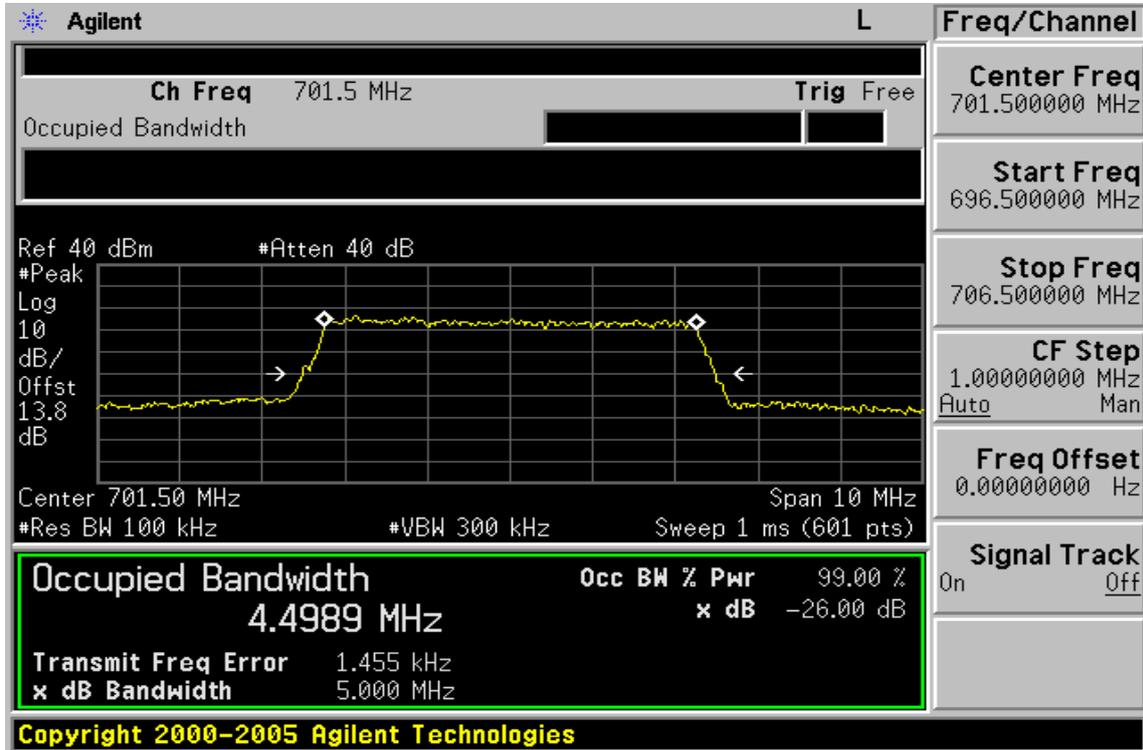
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3MHz BW LTE-Band 12 16QAM Channel High



5MHz BW LTE-Band 12 QPSK Channel Low



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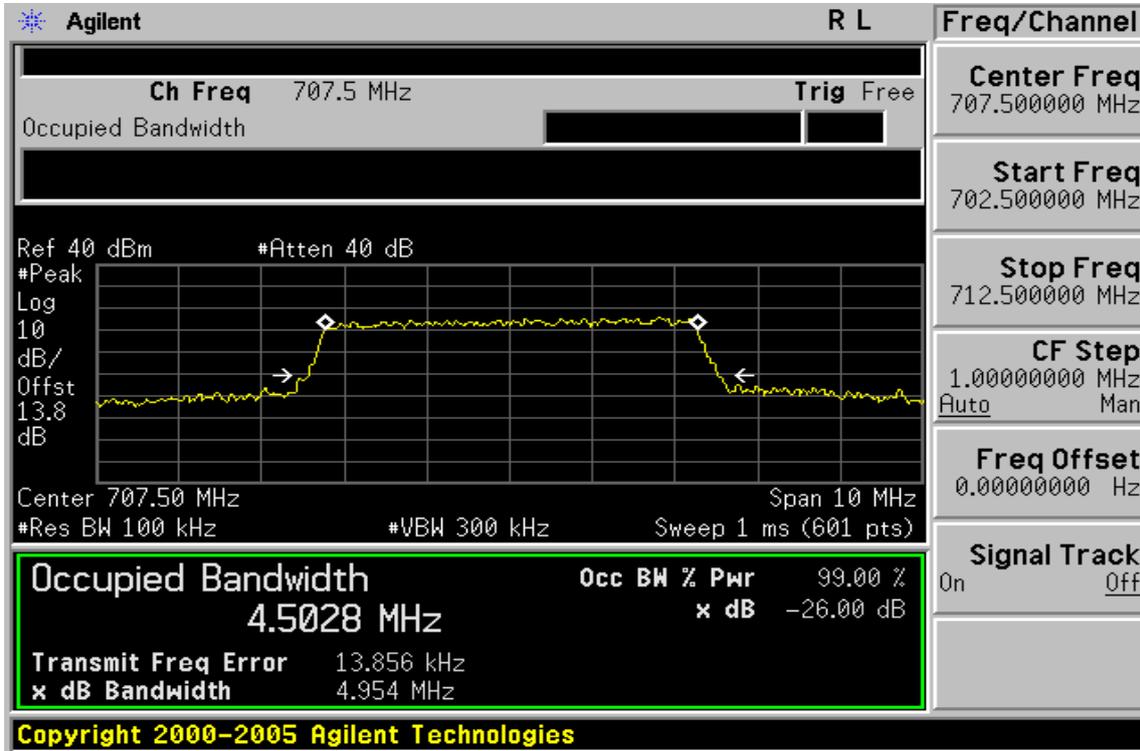
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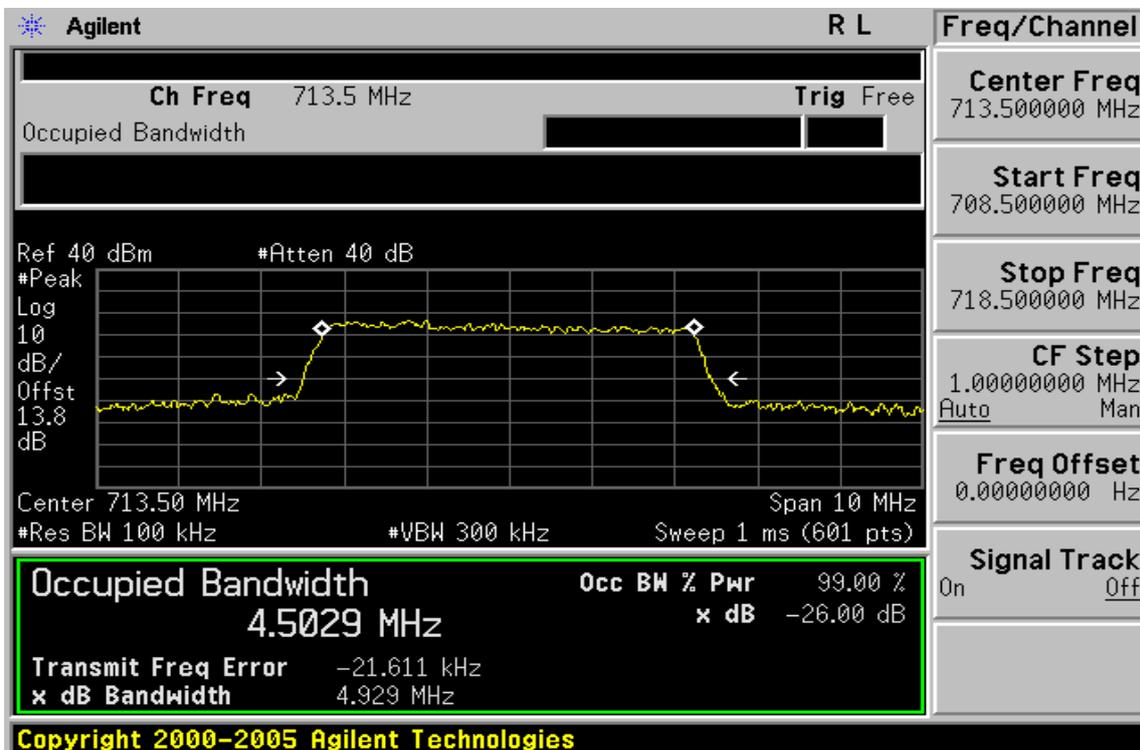
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5MHz BW LTE-Band 12 QPSK Channel Mid



5MHz BW LTE-Band 12 QPSK Channel High



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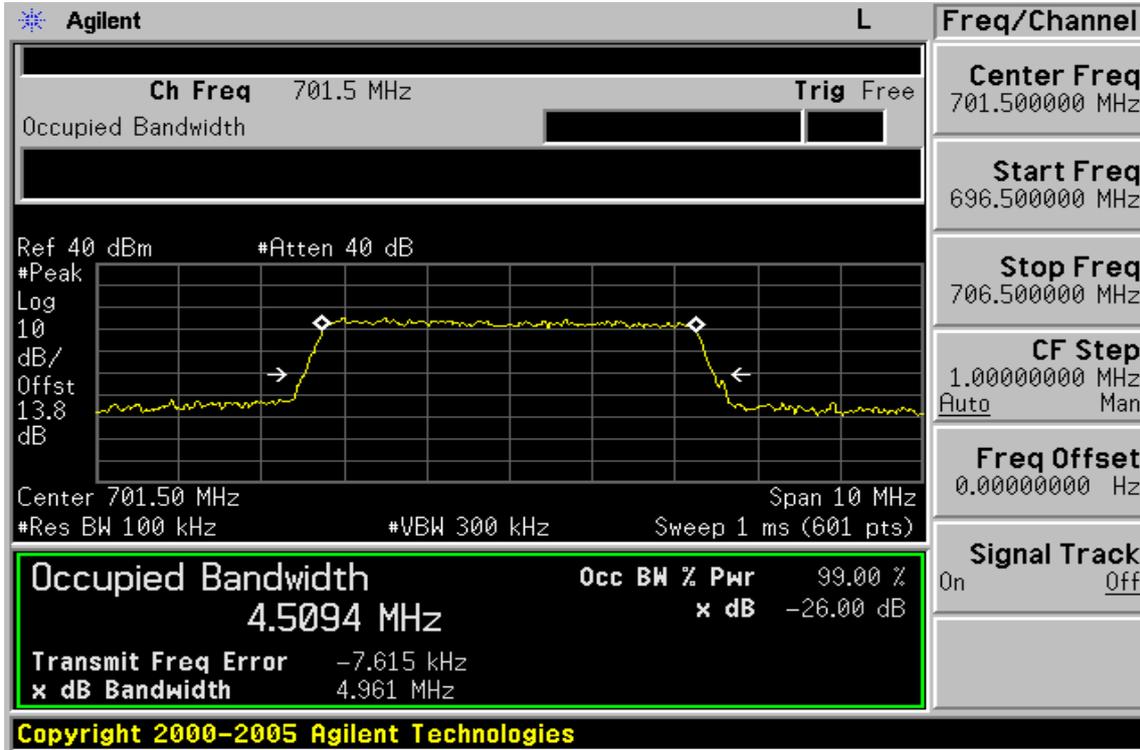
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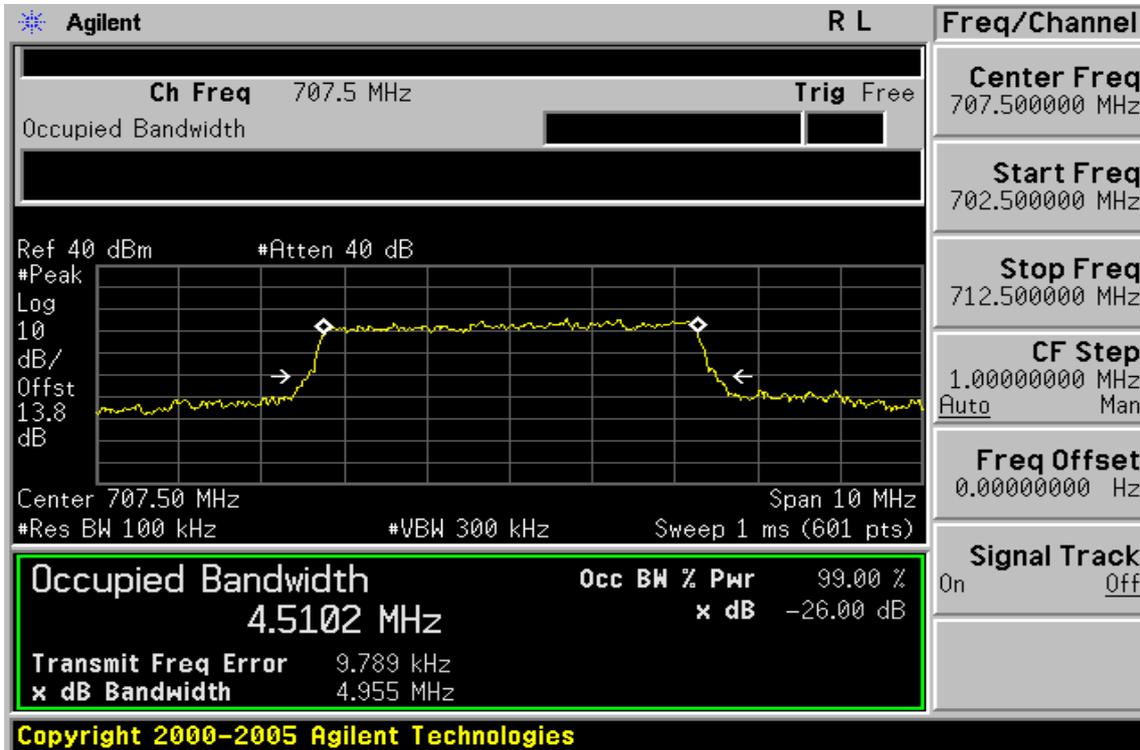
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5MHz BW LTE-Band 12 16QAM Channel Low



5MHz BW LTE-Band 12 16QAM Channel Mid



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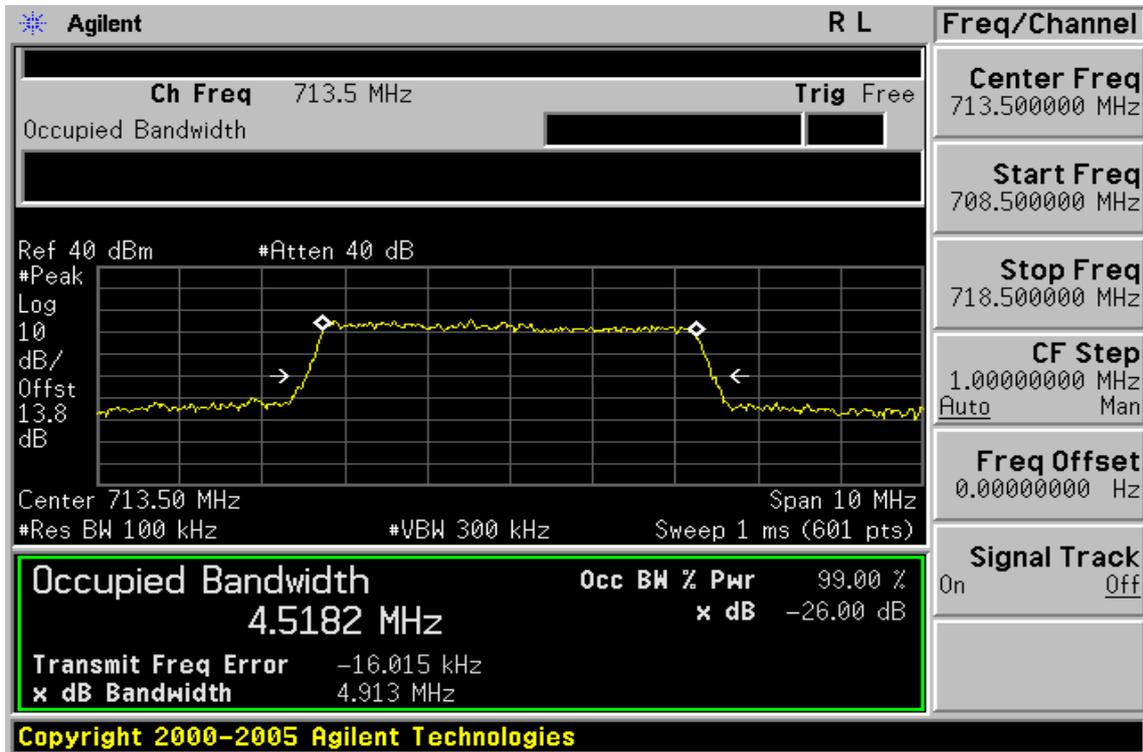
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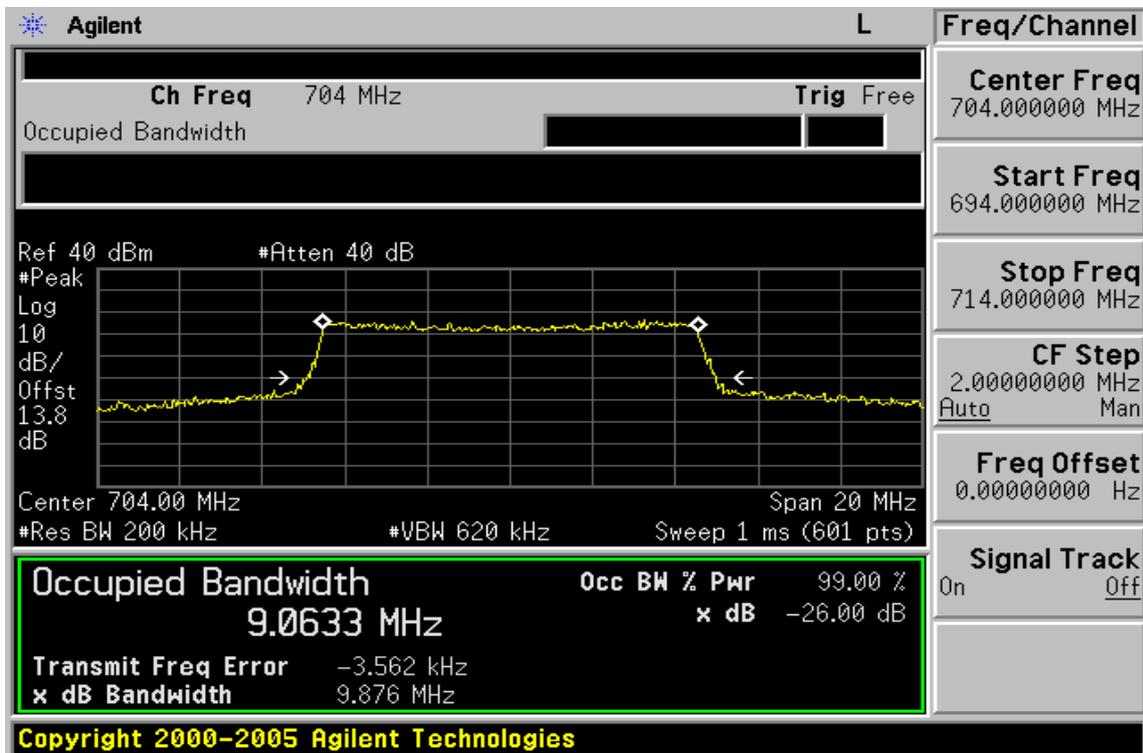
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5MHz BW LTE-Band 12 16QAM Channel High



10MHz BW LTE-Band 12 QPSK Channel Low



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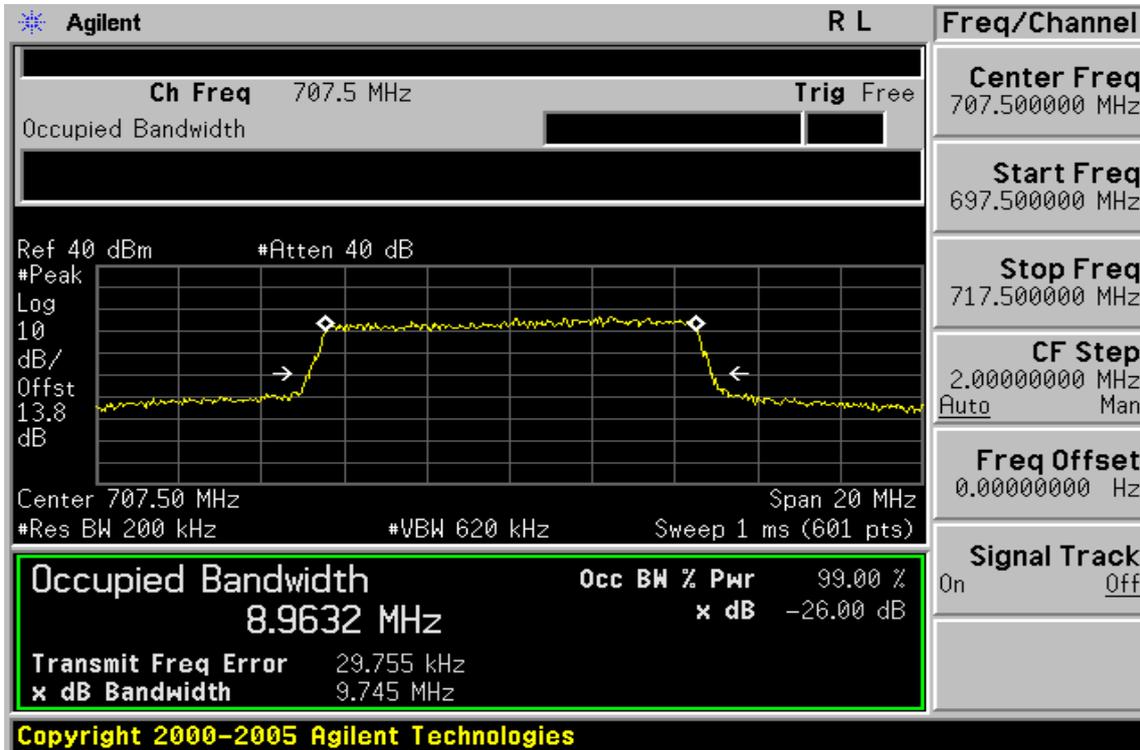
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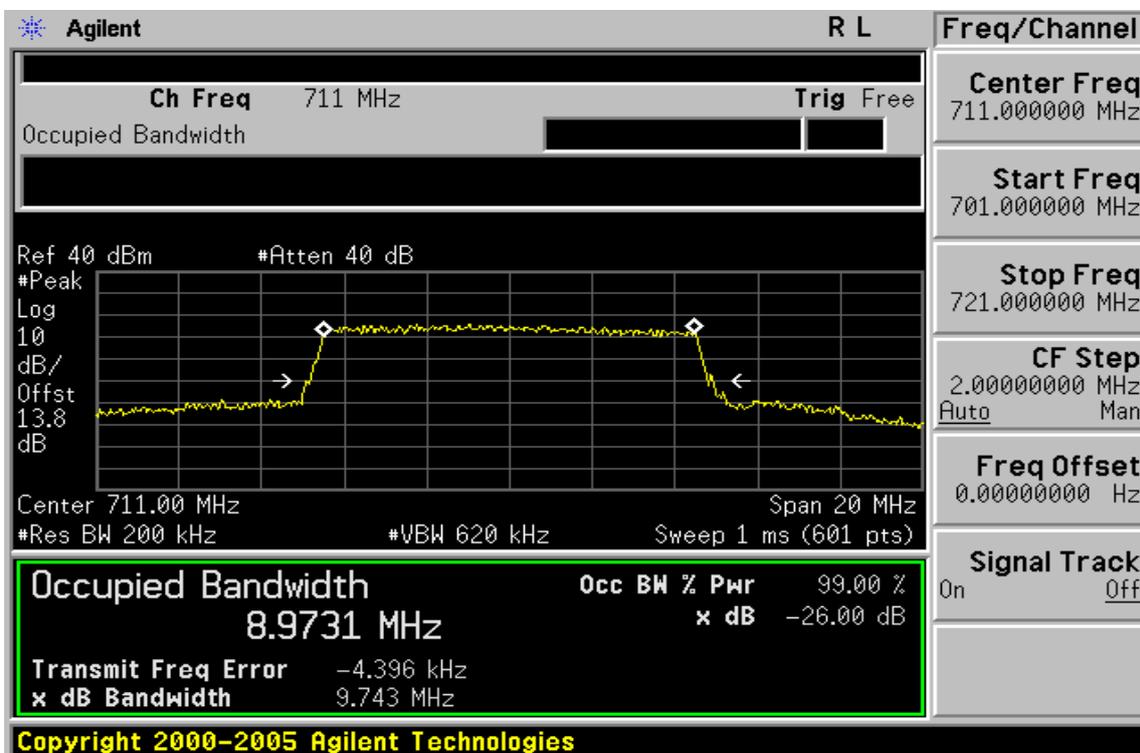
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10MHz BW LTE-Band 12 QPSK Channel Mid



10MHz BW LTE-Band 12 QPSK Channel High



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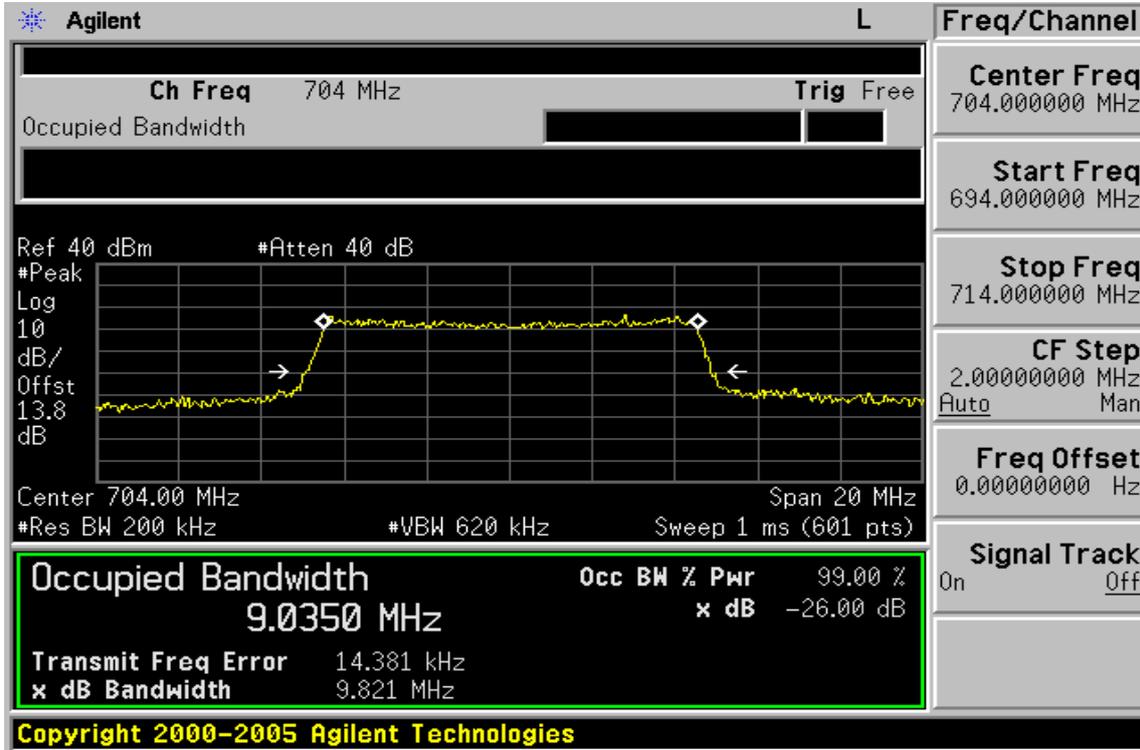
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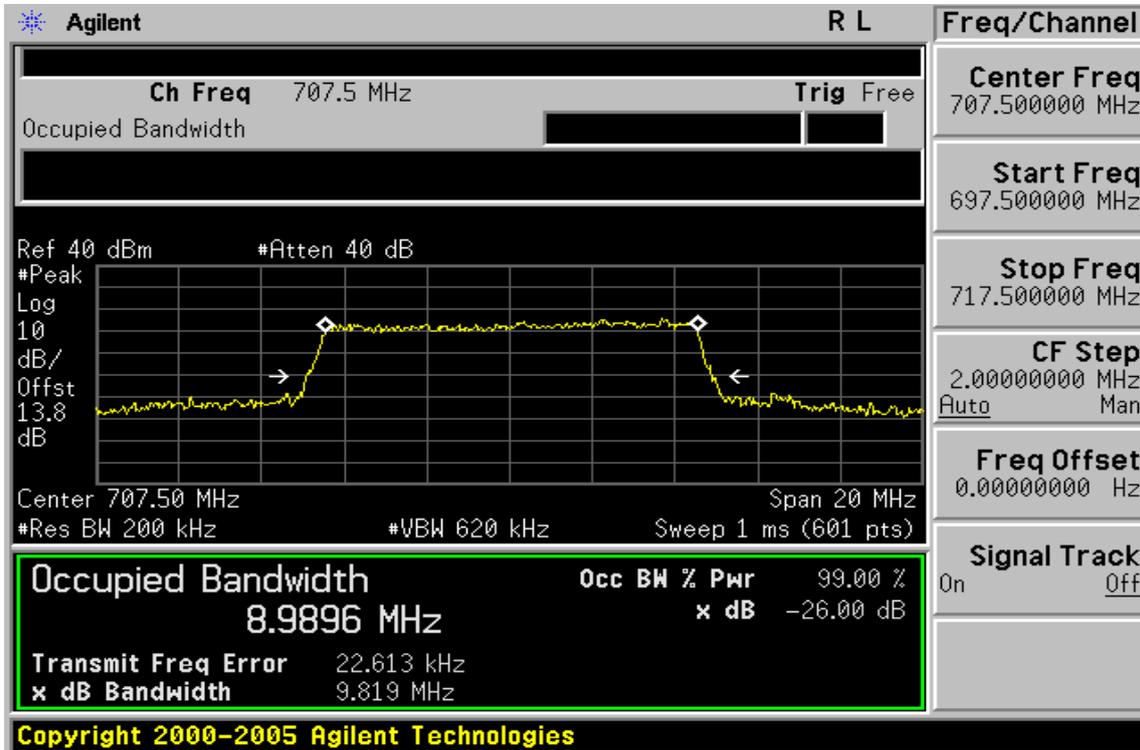
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10MHz BW LTE-Band 12 16QAM Channel Low



10MHz BW LTE-Band12 16QAM Channel Mid



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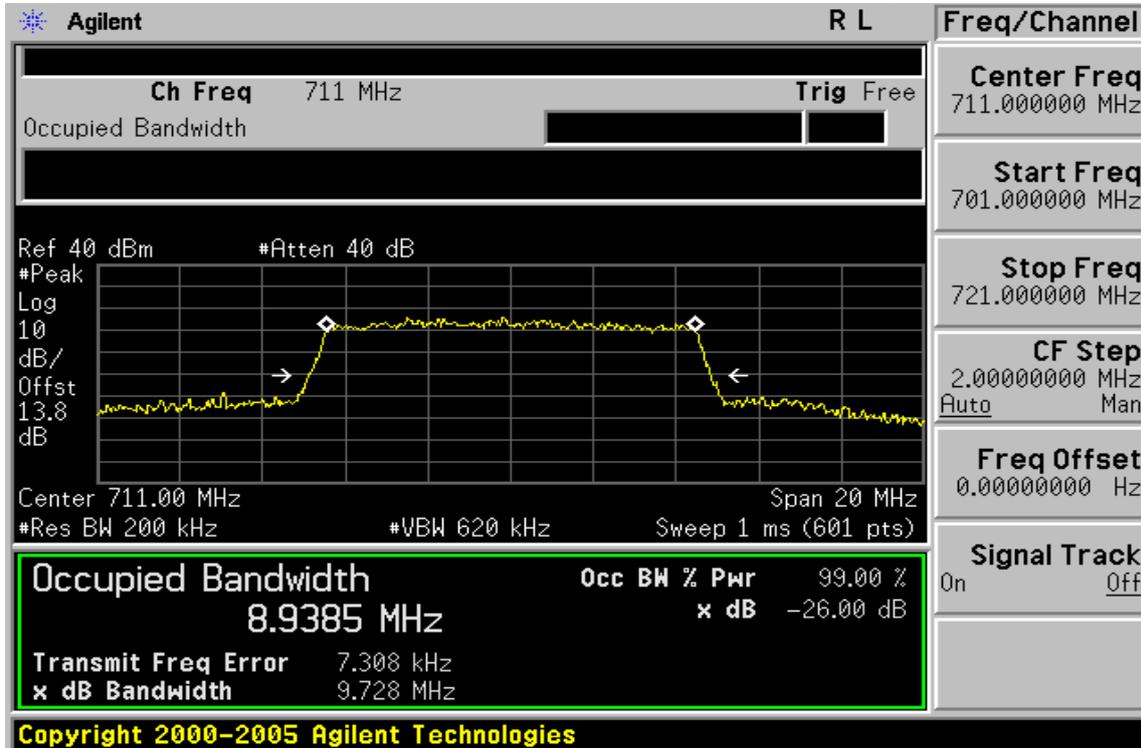
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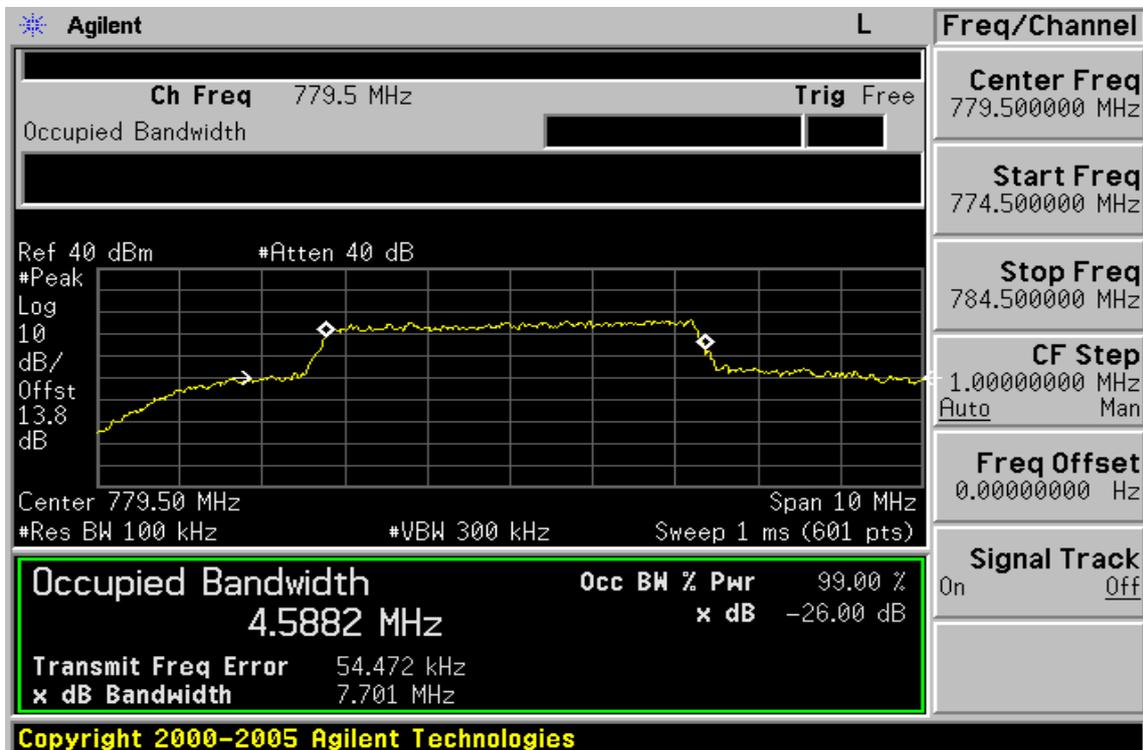
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10MHz BW LTE-Band 12 16QAM Channel High



5MHz BW LTE-Band 13 QPSK Channel Low



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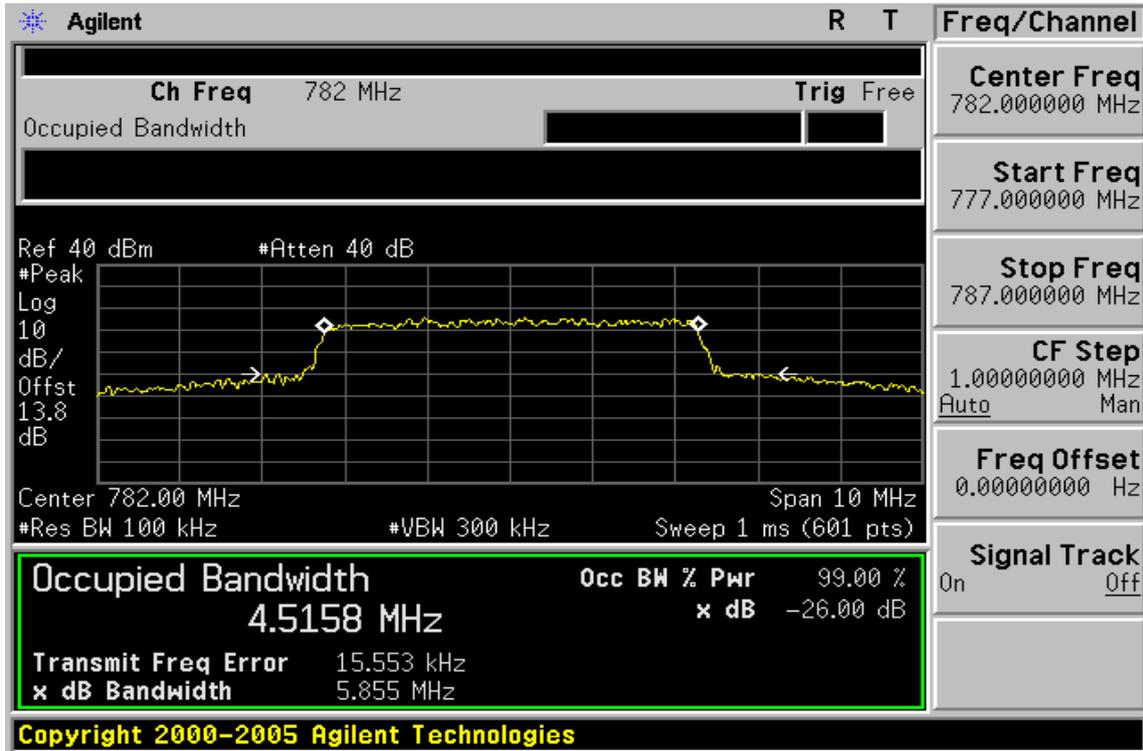
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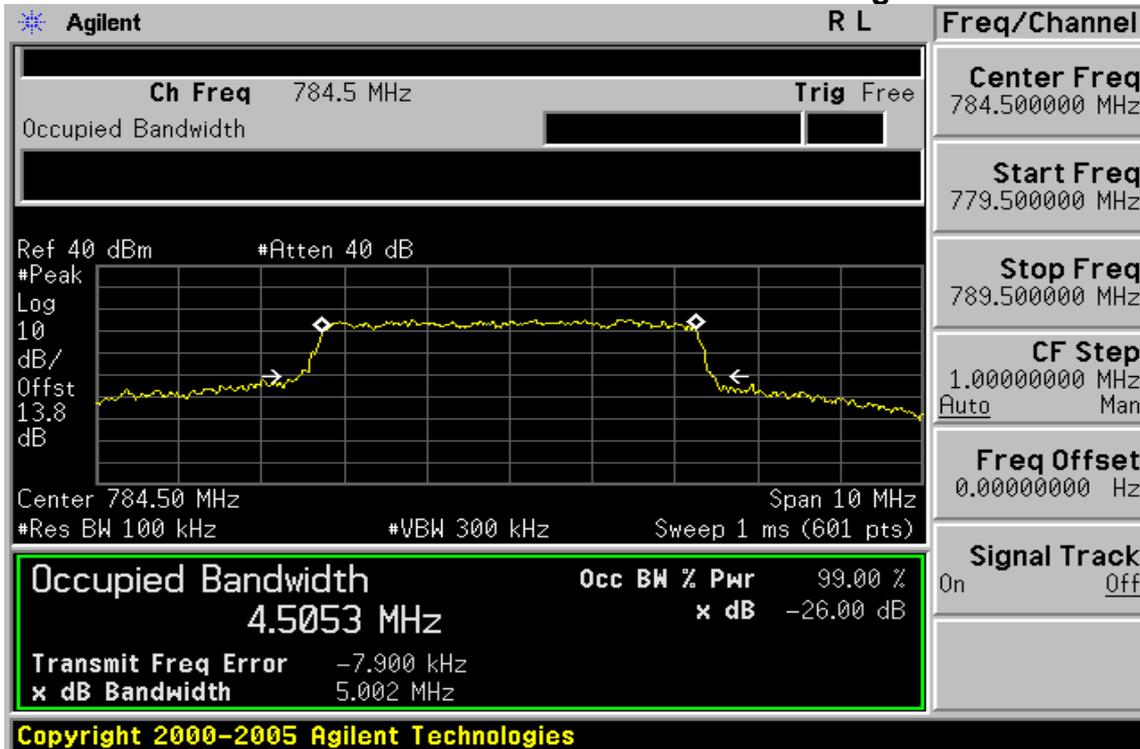
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5MHz BW LTE-Band 13 QPSK Channel Mid



5MHz BW LTE-Band 13 QPSK Channel High



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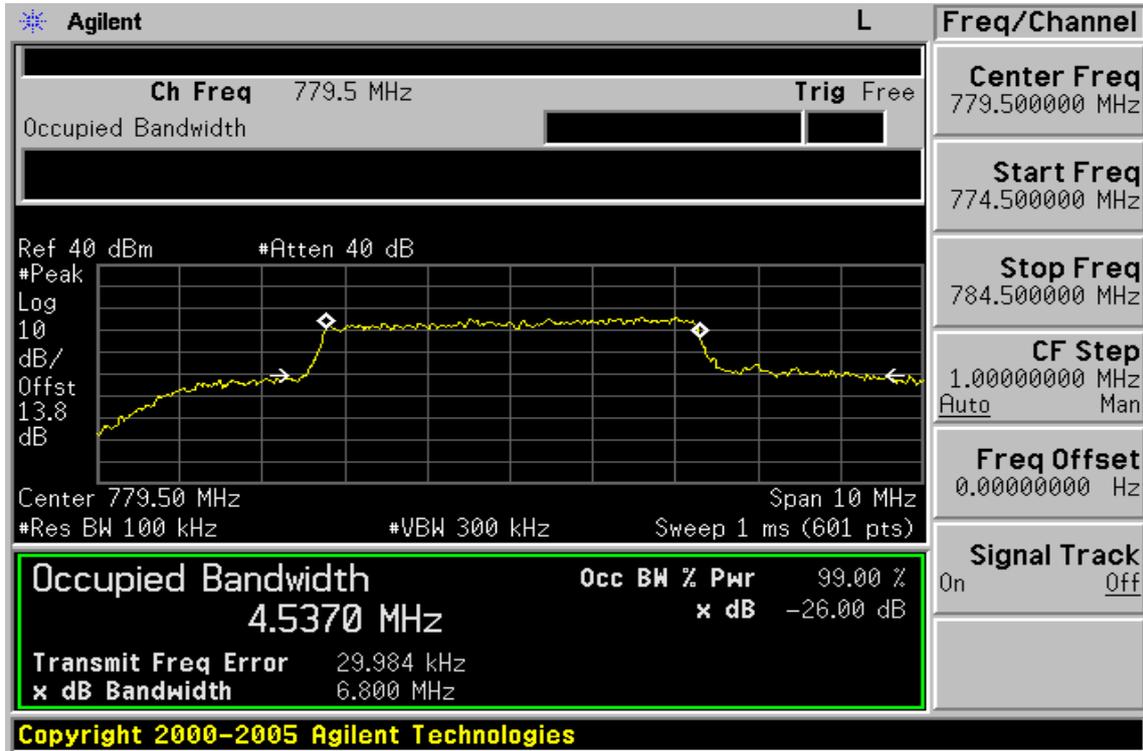
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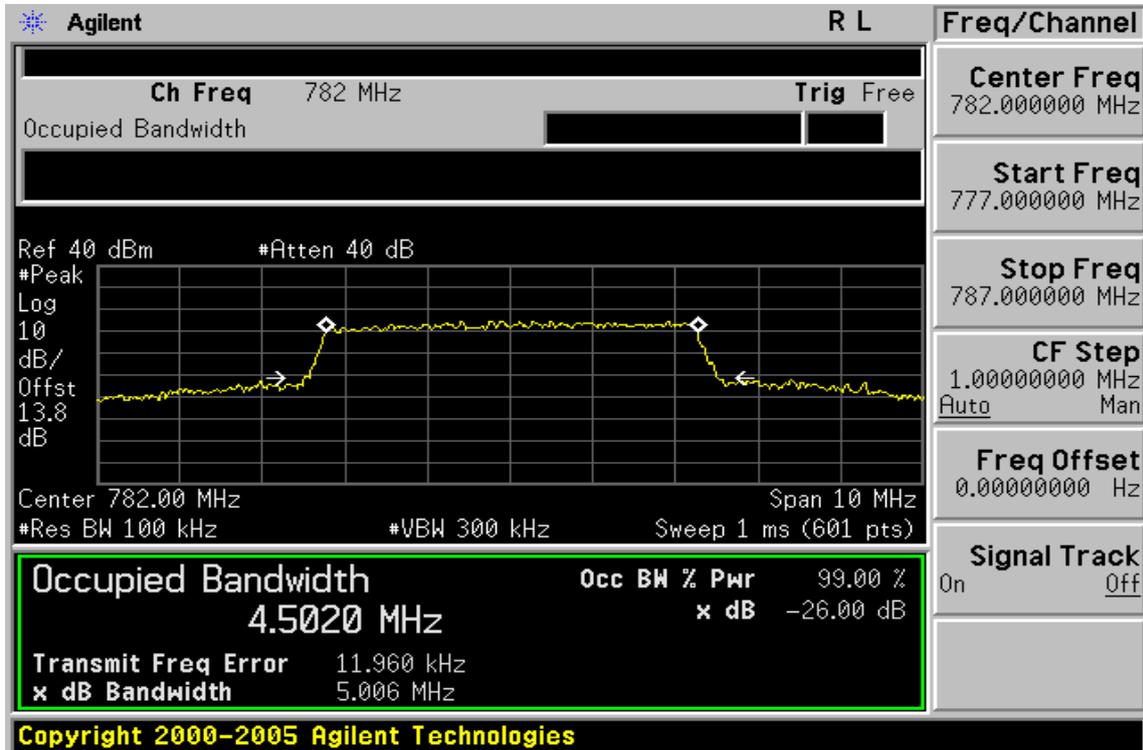
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5MHz BW LTE-Band 13 16QAM Channel Low



5MHz BW LTE-Band 13 16QAM Channel Mid



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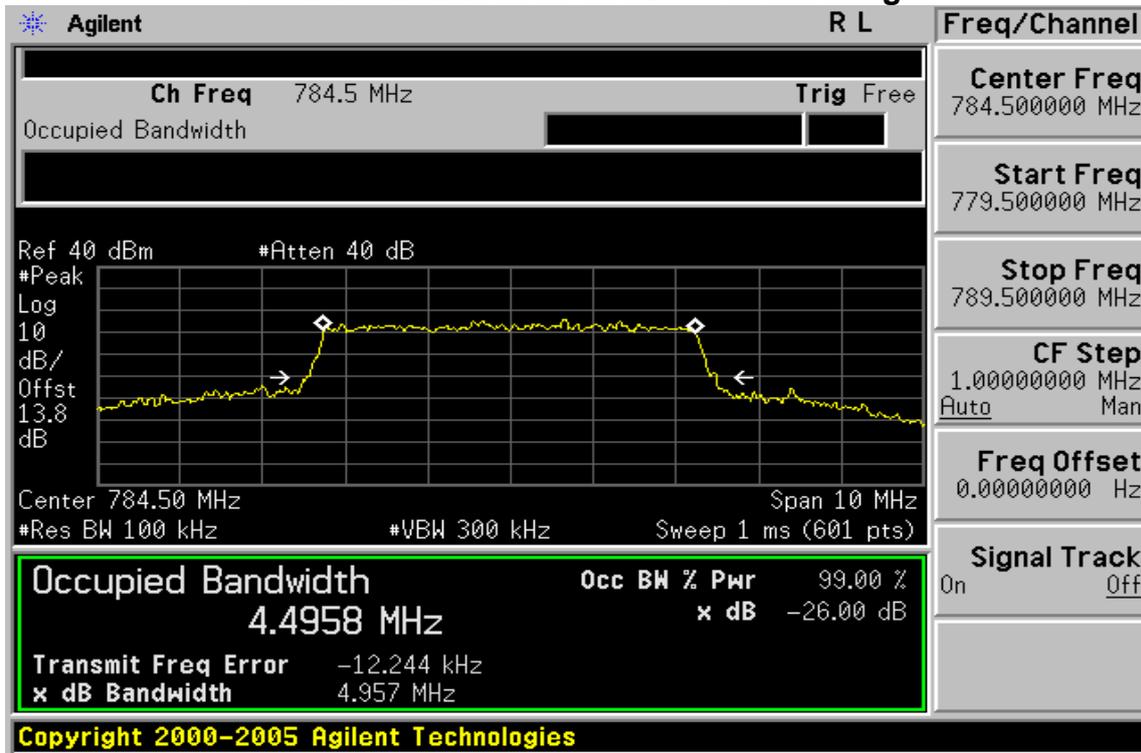
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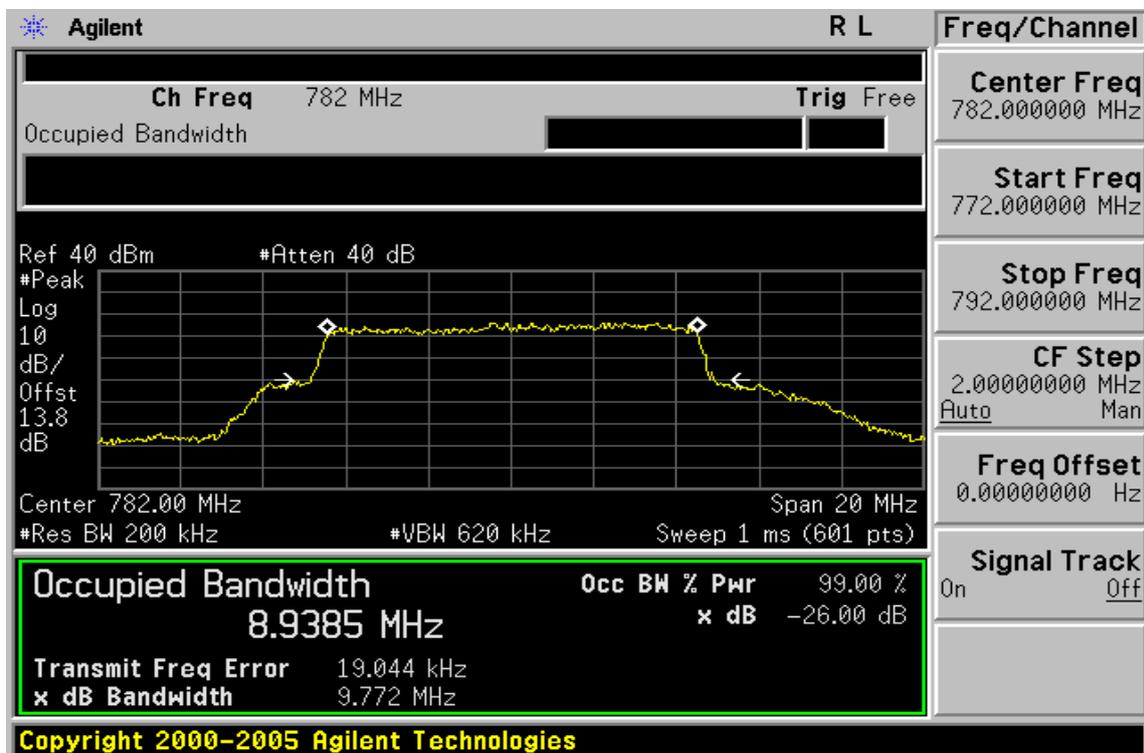
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5MHz BW LTE-Band 13 16QAM Channel High



10MHz BW LTE-Band 13 QPSK Channel Mid



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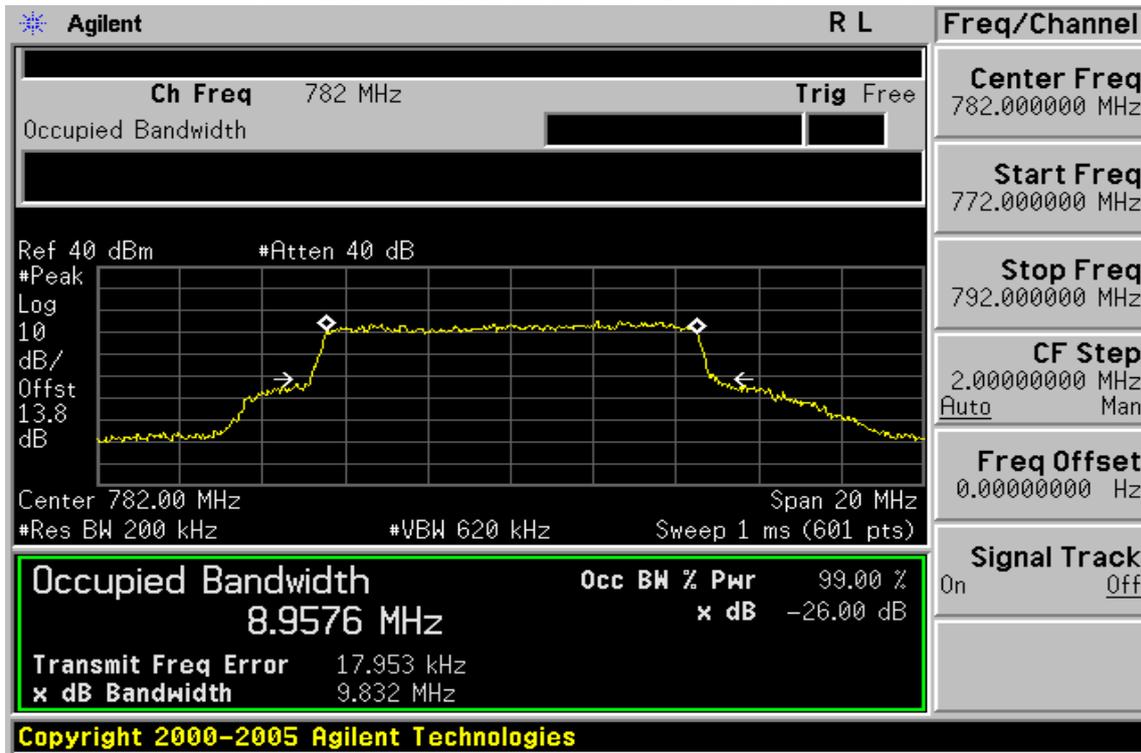
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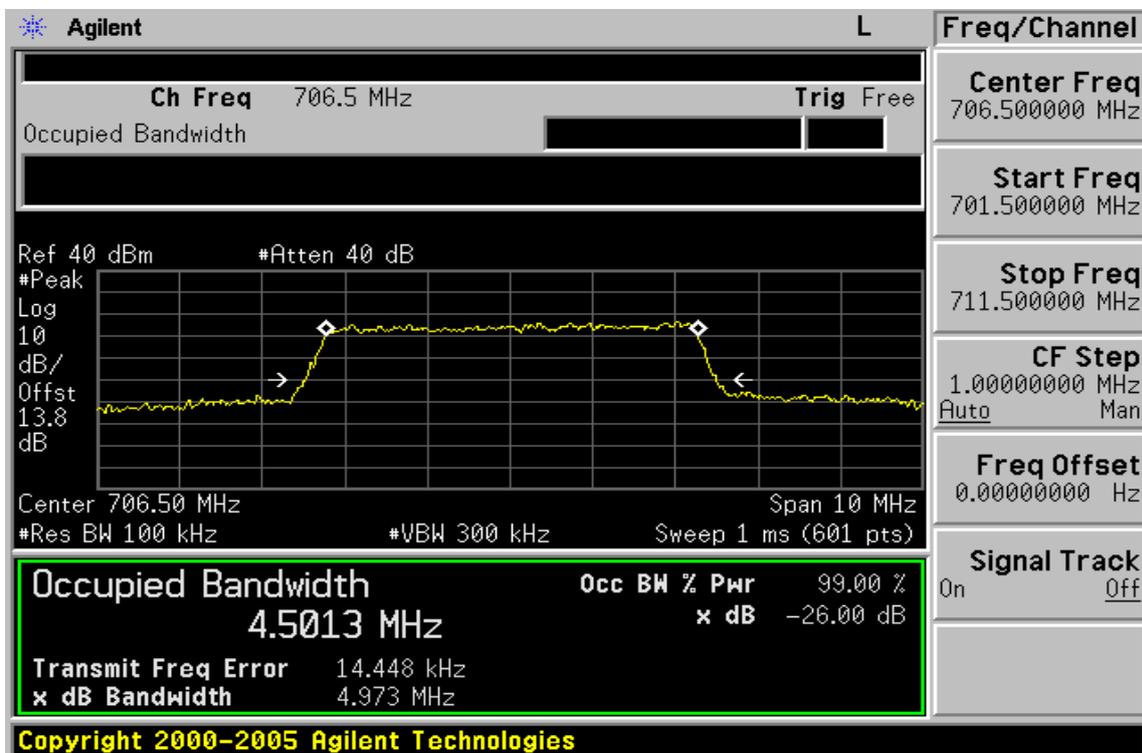
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10MHz BW LTE-Band 13 16QAM Channel Mid



5MHz BW LTE-Band 17 QPSK Channel Low



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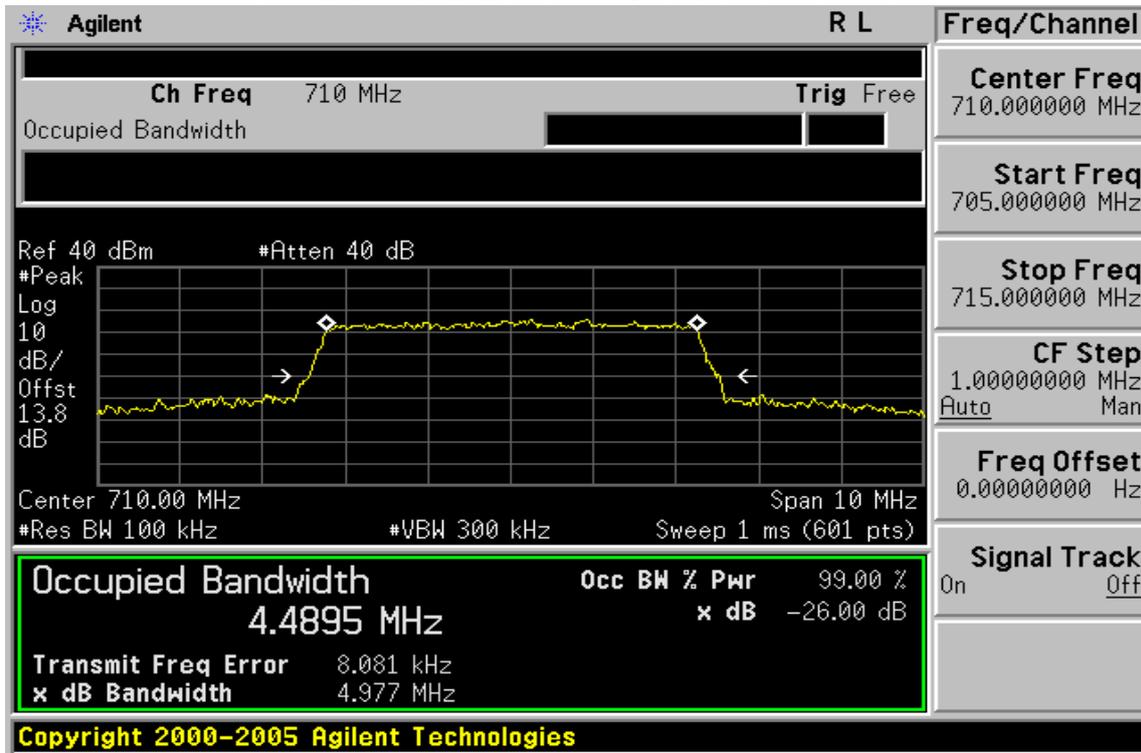
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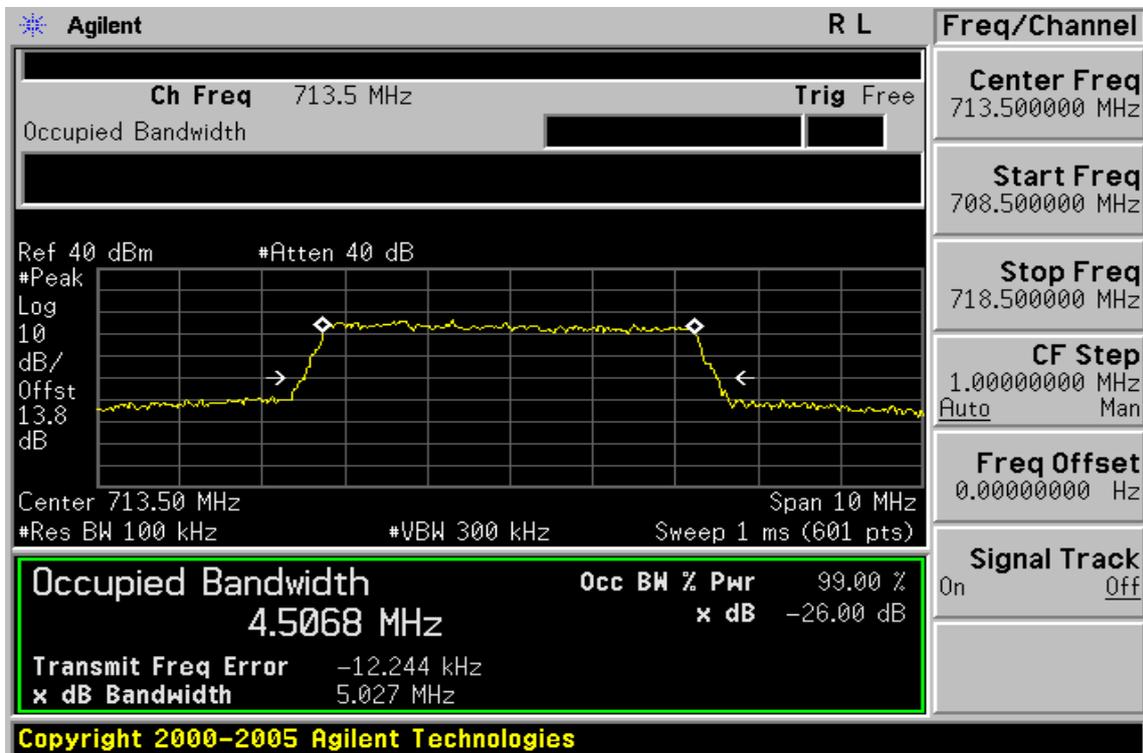
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5MHz BW LTE-Band 17 QPSK Channel Mid



5MHz BW LTE-Band 17 QPSK Channel High



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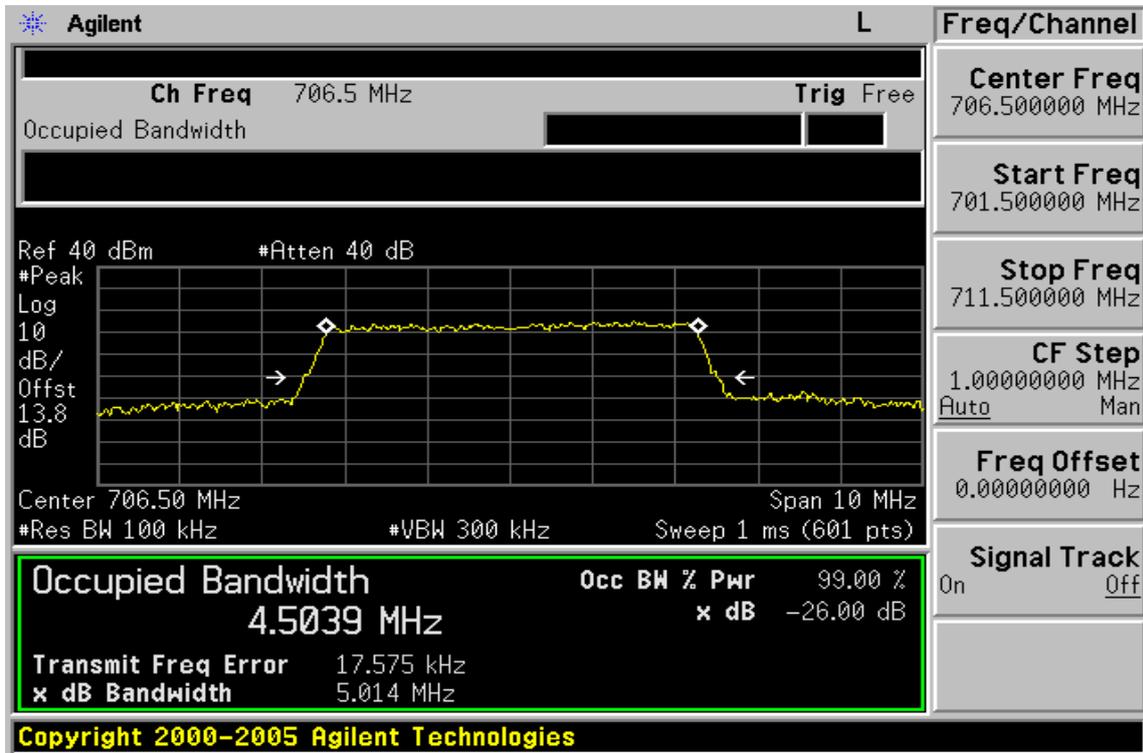
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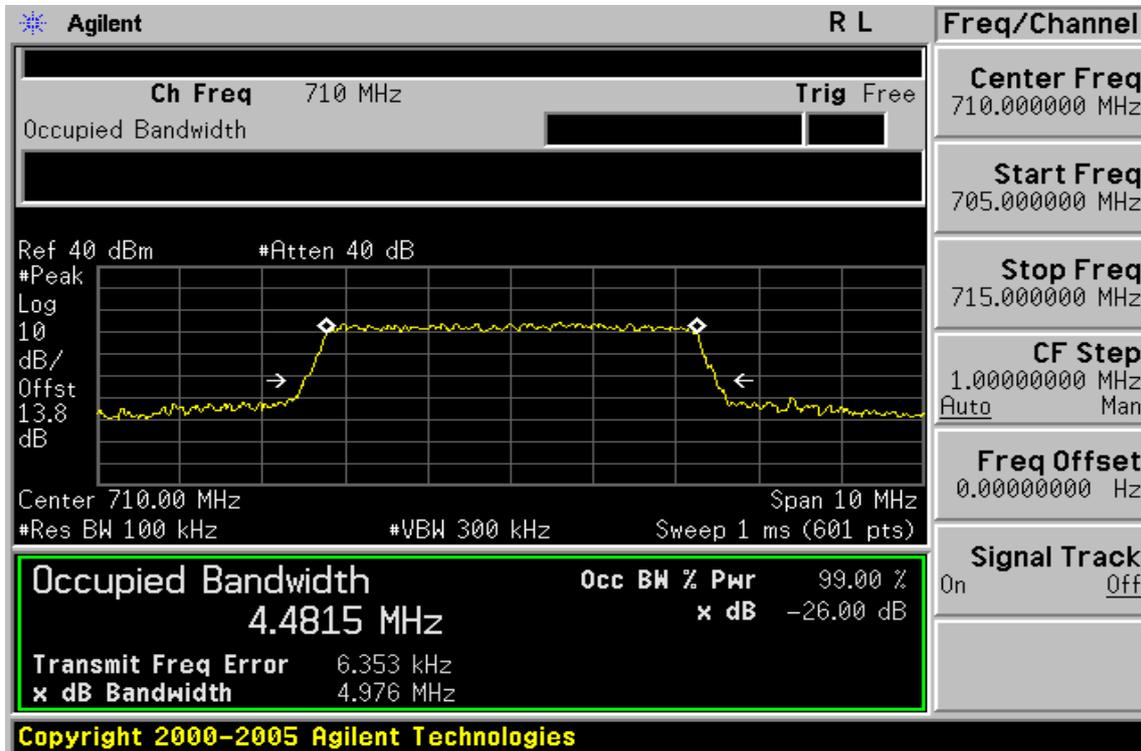
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5MHz BW LTE-Band 17 16QAM Channel Low



5MHz BW LTE-Band 17 Channel Mid



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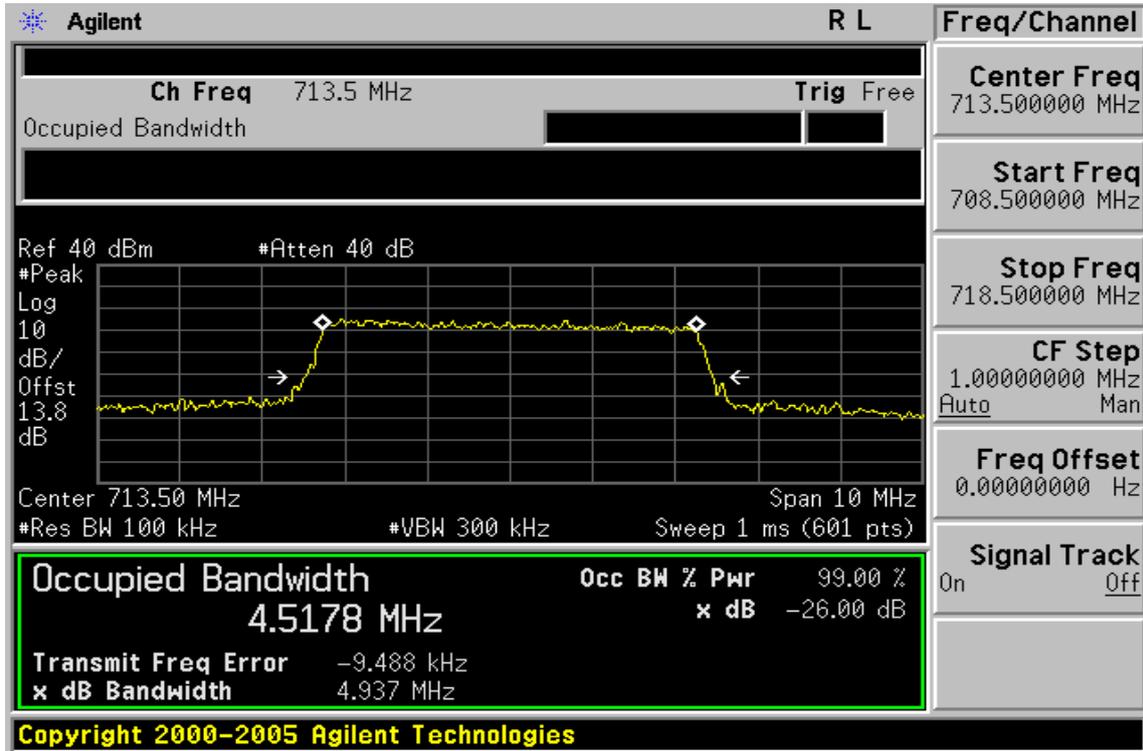
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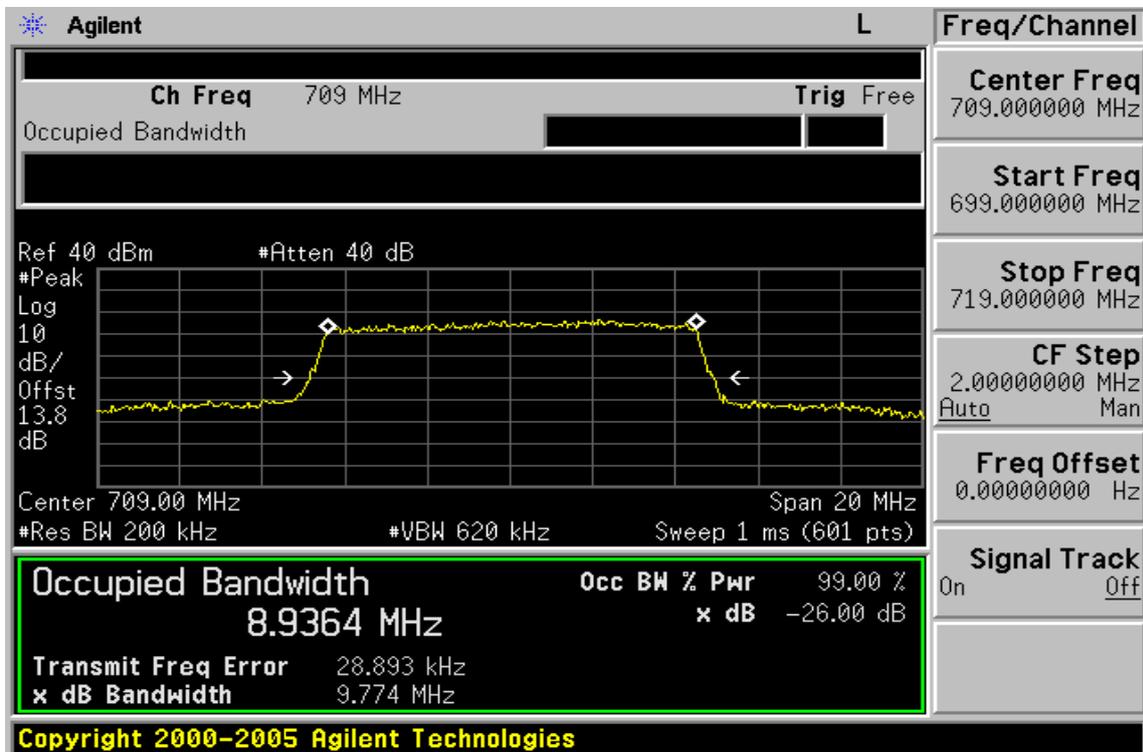
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5MHz BW LTE-Band 17 16QAM Channel High



10MHz BW LTE-Band 17 QPSK Channel Low



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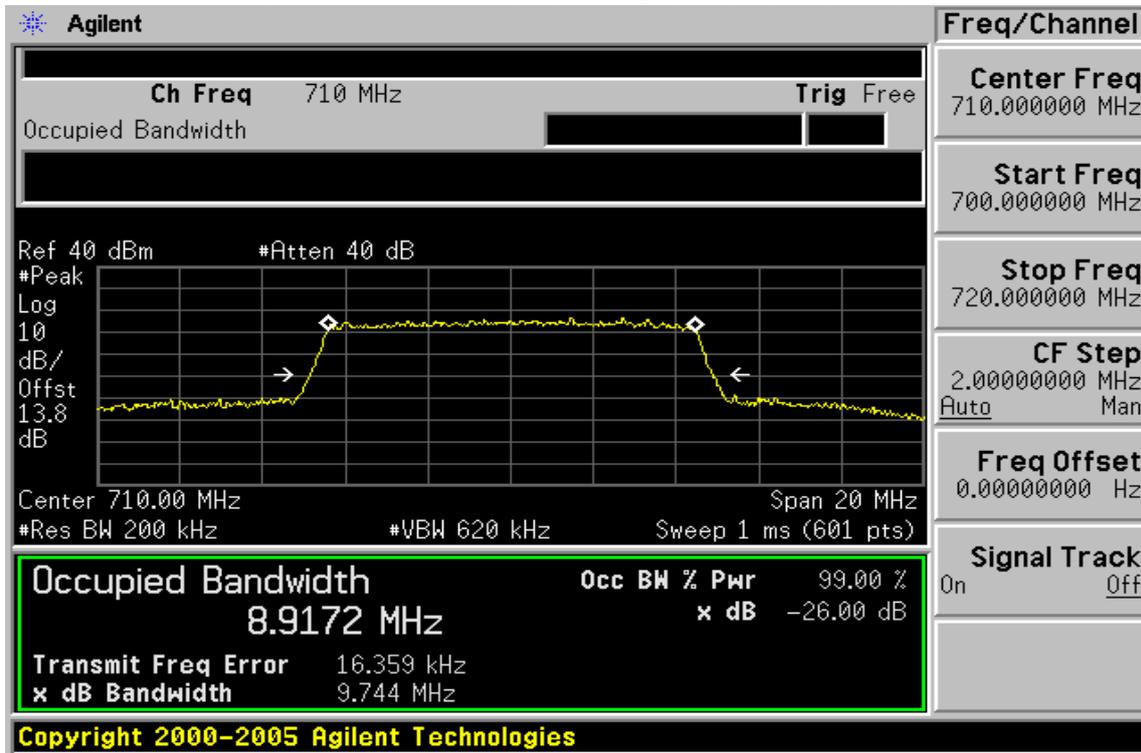
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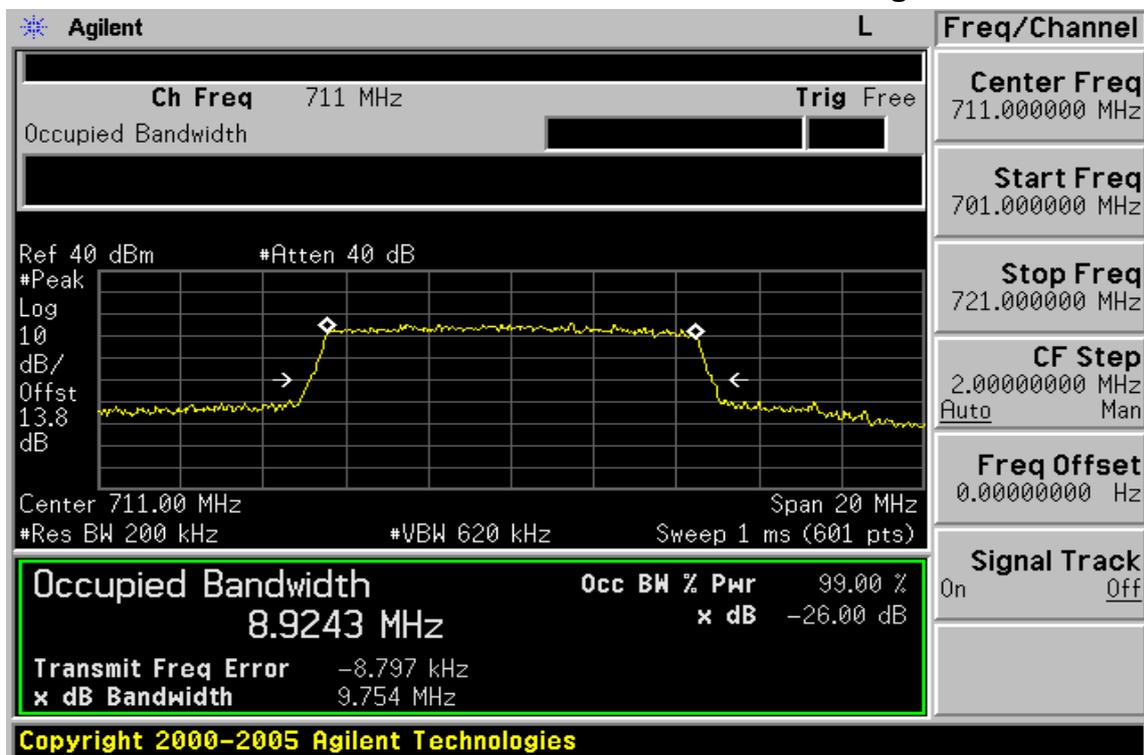
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10MHz BW LTE-Band 17 QPSK Channel Mid



10MHz BW LTE-Band 17 QPSK Channel High



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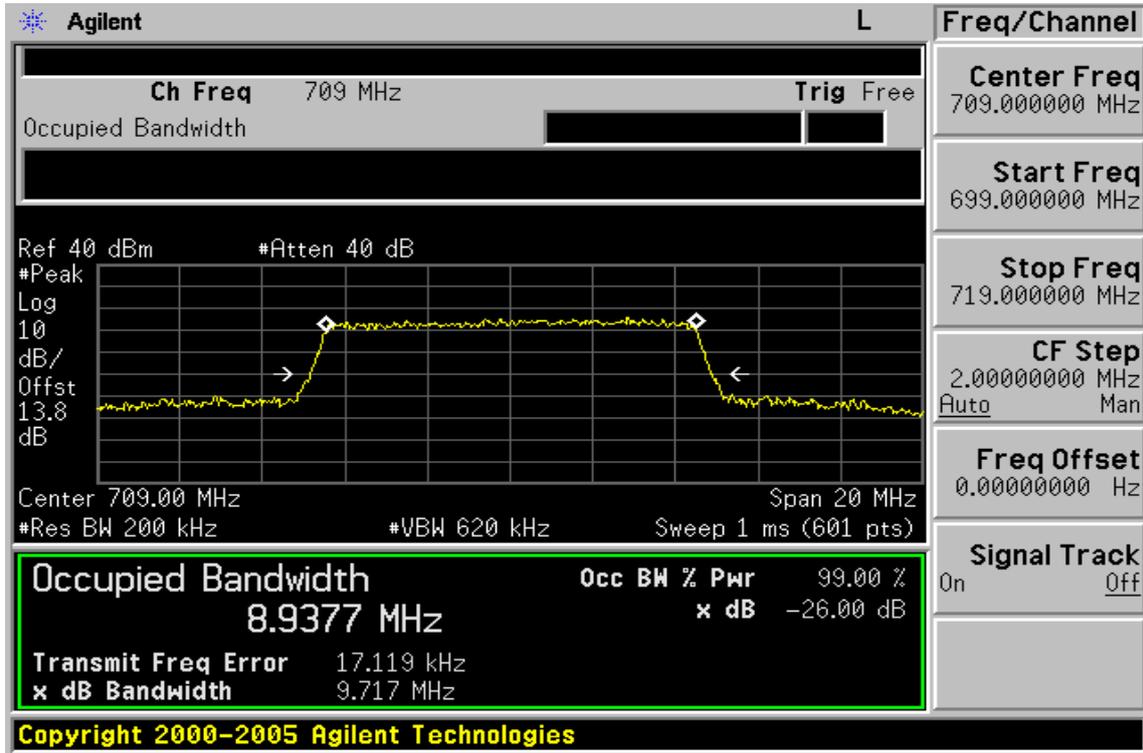
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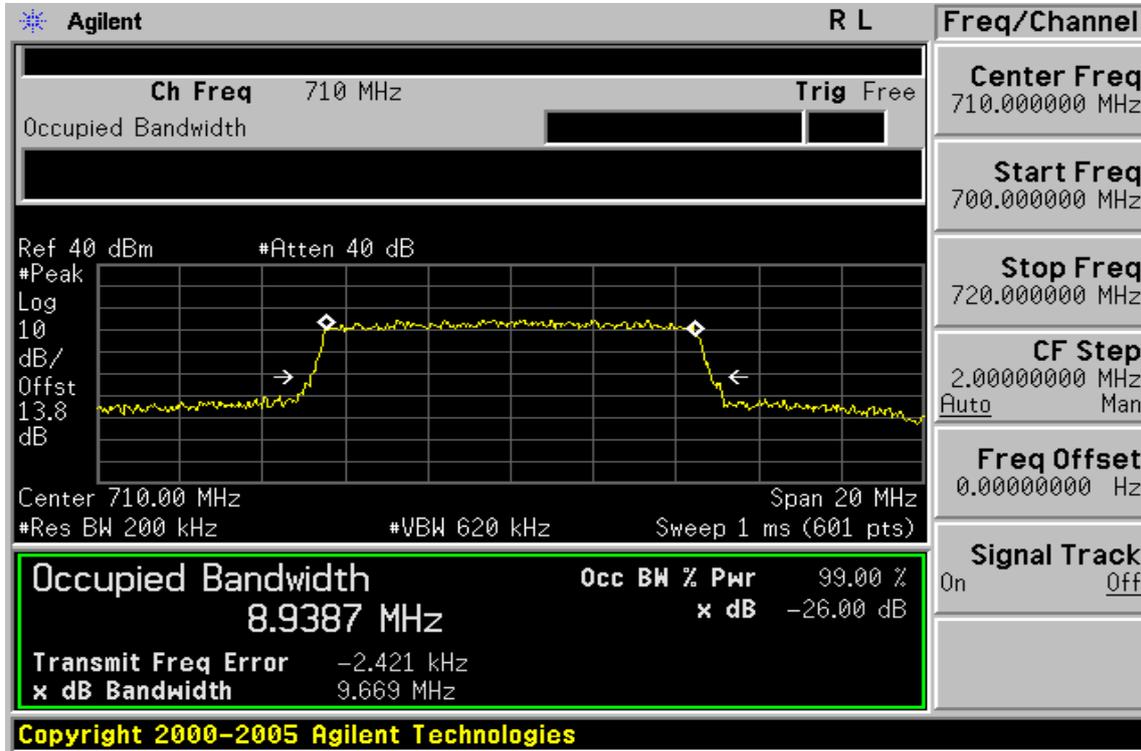
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10MHz BW LTE-Band 17 16QAM Channel Low



10MHz BW LTE-Band 17 16QAM Channel Mid



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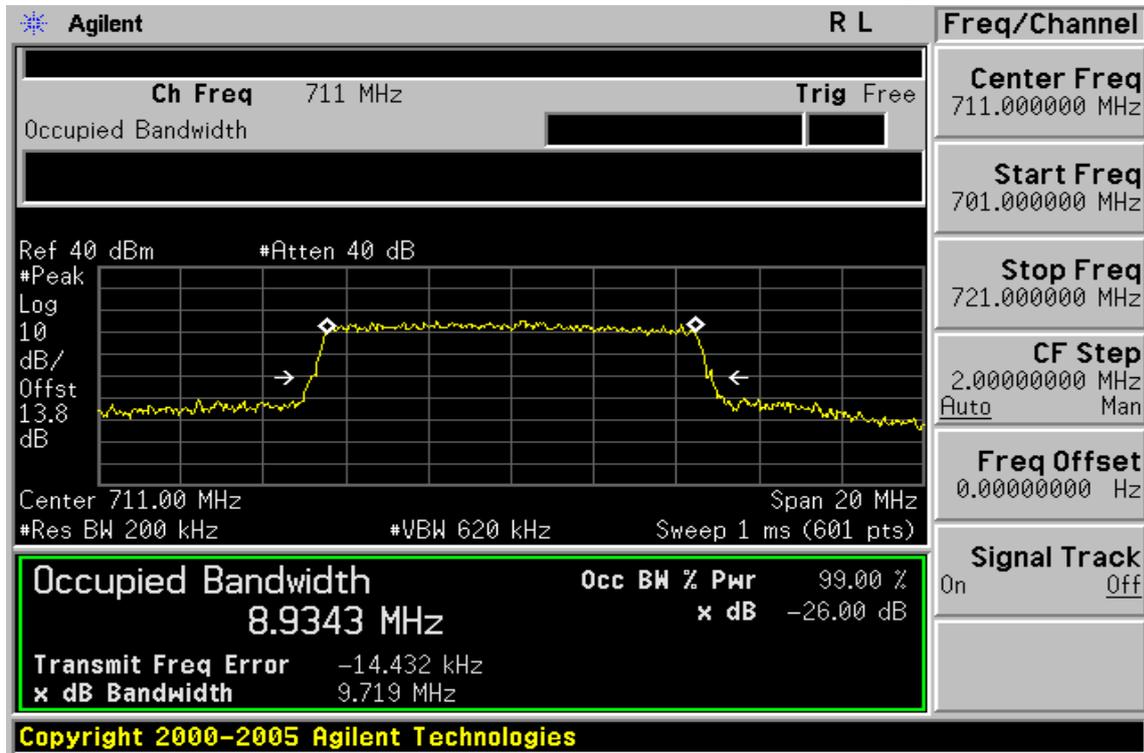
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10MHz BW LTE-Band 17 16QAM Channel High



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