

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO

FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART B, C & SUBPART L REQUIREMENT

OF

Product Name:	Phablet
Brand Name:	HP
Model No.:	HSTNH-F606V
Model Difference:	N/A
FCC ID:	B94HHF606V
Report No.:	ER/2017/10026
Issue Date:	Feb. 10, 2017
FCC Rule Part:	2 , 22H & 24E & 27B, C & L
Prepared for:	HP Inc. 3390 East Harmony Road Fort Collins, Colorado 80528 United States
Prepared by:	SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

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VERIFICATION OF COMPLIANCE

Applicant: HP Inc.
3390 East Harmony Road Fort Collins, Colorado 80528 United States

Product Name: Phablet

Brand Name: HP

Model No.: HSTNH-F606V

Model Difference: N/A

FCC ID: B94HHF606V

File Number: ER/2017/10026

Date of test: Apr. 20, 2016 ~ Feb. 06, 2017

Date of EUT Received: Apr. 20, 2016

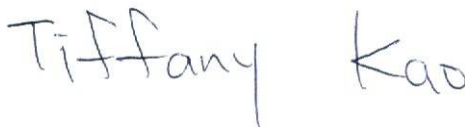
We hereby certify that:

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-D-2010 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:**Date:**

Feb. 10, 2017

Marcus Tseng / Sr. Engineer**Prepared By:****Date:**

Feb. 10, 2017

Tiffany Kao / Clerk**Approved By:****Date:**

Feb. 10, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2017/10026	Rev.00	Initial creation of document	Feb. 10, 2017

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Phablet	
Brand Name:	HP	
Model No.:	HSTNH-F606V	
Model Difference:	N/A	
Product SW/HW version:	V04 / PV	
Radio SW/HW version:	N/A / PV	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
USB Type-C Cable:	Model No.: 836233-001, Supplier: Luxshare-ICT	
Earphone:	Model No.: EH001, Supplier: 1MORE	
USB-C to VGA:	Model No.: KSC0021, Supplier: BIZLINK INTERNATIONAL CORP	
USB-C to HDMI:	Model No.: KSC0012, Supplier: BIZLINK INTERNATIONAL CORP	
USB-C to DP:	Model No.: KSC0044, Supplier: BIZLINK INTERNATIONAL CORP	
Wireless Charger:	Model No.: TPA-M601, Supplier: Merry Electronics Co Ltd	
Docking Station:	Model No.: HSTNH-F601, Supplier: HP Inc.	
Adapters for Docking Station:	1. Model No.: HSTNN-CA40, Supplier: Chicony Power Technology Co., LTd. 2. Model No.: HSTNN-LA40, Supplier: Lite-On Technology Corporation 3. Model No.: HSTNN-DA40, Supplier: DELTA ELECTRONICS INC 4. Model No.: HSTNN-AA44; Supplier: Acbel Polytech Inc.	
Power Supply:	3.85Vdc from Rechargeable Li-polymer Battery or 5.3V / 5.25V from AC/DC Adapter	
	Battery:	Model No.: HSTNH-F606-DP, Supplier: DYNAPACK INTERNATIONAL TECHNOLOGY CORP
	Adapter:	1. Model No.: WAD005, Supplier: Acbel Polytech Inc. (10.6W, 5.3V) 2. Model No.: TPN-AA01, Supplier: Acbel Polytech Inc. (15W, 5.25V)

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GSM / WCDMA / LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GSM/GPRS 850	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850	824.2 MHz– 848.8 MHz	27dBm
	GSM/GPRS 1900	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900	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	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	CDMA2000 Cellular BC0	824.7MHz – 848.31MHz	24dBm
	CDMA2000 PCS BC1	1851.25 MHz – 1908.75 MHz	24dBm
	CDMA2000 EVDO Cellular BC0	824.7MHz – 848.31MHz	24dBm
	CDMA2000 EVDO PCS BC1	1851.25 MHz – 1908.75 MHz	24dBm
	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)	1715MHz – 1750MHz	23dBm
	LTE-Band 4 (Bandwidth 15MHz)	1717.5MHz – 1747.5MHz	23dBm
	LTE-Band 4 (Bandwidth 20MHz)	1720MHz – 1745MHz	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 – 847.5MHz	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 (5MHz)	779.5MHz - 784.5MHz	23dBm
	LTE-Band 13 (10MHz)	782.0MHz	23dBm
	LTE-Band 30 (Bandwidth 5MHz)	2307.5MHz – 2312.5MHz	23dBm
	LTE-Band 30 (Bandwidth 10MHz)	2310.0MHz –2310.0MHz	23dBm

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Type of Emission:

Frequency Band	Type of Emission:
GSM 850	247KGXW
GPRS 850	244KGXW
EDGE 850	247KG7W
GSM 1900	248KGXW
GPRS 1900	241KGXW
EDGE 1900	247KG7W
CDMA 2000 Cellular (BC0)	1M28F9W
CDMA 2000 EVDO Cellular (BC0)	1M27F9W
CDMA 2000 PCS (BC1)	1M28F9W
CDMA 2000 EVDO PCS (BC1)	1M28F9W
WCDMA Band II	4M16F9W
WCDMA Band IV	4M14F9W
WCDMA Band V	4M13F9W
HSDPA Band II	4M14F9W
HSDPA Band IV	4M15F9W
HSDPA Band V	4M14F9W
HSUPA Band II	4M15F9W
HSUPA Band IV	4M14F9W
HSUPA Band V	4M13F9W

LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 2	1.4MHz	QPSK	1M10G7D
LTE Band 2	1.4MHz	16QAM	1M10D7W
LTE Band 2	3MHz	QPSK	2M71G7D
LTE Band 2	3MHz	16QAM	2M71D7W
LTE Band 2	5MHz	QPSK	4M50G7D
LTE Band 2	5MHz	16QAM	4M52D7W
LTE Band 2	10MHz	QPSK	8M99G7D
LTE Band 2	10MHz	16QAM	8M96D7W
LTE Band 2	15MHz	QPSK	13M5G7D
LTE Band 2	15MHz	16QAM	13M5D7W
LTE Band 2	20MHz	QPSK	17M9G7D
LTE Band 2	20MHz	16QAM	18M0D7W

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LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 4	1.4MHz	QPSK	1M10G7D
LTE Band 4	1.4MHz	16QAM	1M10D7W
LTE Band 4	3MHz	QPSK	2M72G7D
LTE Band 4	3MHz	16QAM	2M71D7W
LTE Band 4	5MHz	QPSK	4M51G7D
LTE Band 4	5MHz	16QAM	4M51D7W
LTE Band 4	10MHz	QPSK	9M00G7D
LTE Band 4	10MHz	16QAM	9M02D7W
LTE Band 4	15MHz	QPSK	13M5G7D
LTE Band 4	15MHz	16QAM	13M5D7W
LTE Band 4	20MHz	QPSK	18M0G7D
LTE Band 4	20MHz	16QAM	18M0D7W
LTE Band 5	1.4MHz	QPSK	1M10G7D
LTE Band 5	1.4MHz	16QAM	1M10D7W
LTE Band 5	3MHz	QPSK	2M72G7D
LTE Band 5	3MHz	16QAM	2M71D7W
LTE Band 5	5MHz	QPSK	4M51G7D
LTE Band 5	5MHz	16QAM	4M50D7W
LTE Band 5	10MHz	QPSK	8M99G7D
LTE Band 5	10MHz	16QAM	8M98D7W
LTE Band 7	5MHz	QPSK	4M50G7D
LTE Band 7	5MHz	16QAM	4M52D7W
LTE Band 7	10MHz	QPSK	8M99G7D
LTE Band 7	10MHz	16QAM	8M97D7W
LTE Band 7	15MHz	QPSK	13M5G7D
LTE Band 7	15MHz	16QAM	13M5D7W
LTE Band 7	20MHz	QPSK	17M9G7D
LTE Band 7	20MHz	16QAM	18M0D7W
LTE Band 12	1.4MHz	QPSK	1M10G7D
LTE Band 12	1.4MHz	16QAM	1M09D7W
LTE Band 12	3MHz	QPSK	2M71G7D
LTE Band 12	3MHz	16QAM	2M71D7W
LTE Band 12	5MHz	QPSK	4M50G7D
LTE Band 12	5MHz	16QAM	4M51D7W
LTE Band 12	10MHz	QPSK	9M02G7D
LTE Band 12	10MHz	16QAM	9M01D7W

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LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 13	5MHz	QPSK	4M50G7D
LTE Band 13	5MHz	16QAM	4M50D7W
LTE Band 13	10MHz	QPSK	8M96G7D
LTE Band 13	10MHz	16QAM	8M93D7W
LTE Band 30	5MHz	QPSK	4M51G7D
LTE Band 30	5MHz	16QAM	4M50D7W
LTE Band 30	10MHz	QPSK	8M97G7D
LTE Band 30	10MHz	16QAM	8M94D7W

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Max ERP/EIRP Power Measurement Result:

	dBm		W
GSM 850	26.29	ERP	0.426
GPRS 850	26.34	ERP	0.431
EDGE 850	23.47	ERP	0.222
GSM 1900	30.12	EIRP	1.028
GPRS 1900	30.52	EIRP	1.127
EDGE 1900	30.13	EIRP	1.030
CDMA 2000 Cellular (BC0)	13.37	ERP	0.022
CDMA 2000 EVDO Cellular (BC0)	13.48	ERP	0.022
CDMA 2000 PCS (BC1)	11.61	EIRP	0.014
CDMA 2000 EVDO PCS (BC1)	11.30	EIRP	0.013
WCDMA Band II	27.48	EIRP	0.560
WCDMA Band IV	29.12	EIRP	0.817
WCDMA Band V	24.72	ERP	0.296
HSDPA Band II	28.09	EIRP	0.644
HSDPA Band IV	27.94	EIRP	0.622
HSDPA Band V	22.05	ERP	0.160
HSUPA Band II	26.61	EIRP	0.458
HSUPA Band IV	29.23	EIRP	0.838
HSUPA Band V	21.45	ERP	0.140
LTE-Band 2 (Bandwidth 1.4MHz) QPSK	28.97	EIRP	0.789
LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	28.97	EIRP	0.789
LTE-Band 2 (Bandwidth 3MHz) QPSK	28.88	EIRP	0.773
LTE-Band 2 (Bandwidth 3MHz) 16QAM	28.85	EIRP	0.767
LTE-Band 2 (Bandwidth 5MHz) QPSK	28.61	EIRP	0.726
LTE-Band 2 (Bandwidth 5MHz) 16QAM	28.64	EIRP	0.731
LTE-Band 2 (Bandwidth 10MHz) QPSK	28.66	EIRP	0.735
LTE-Band 2 (Bandwidth 10MHz) 16QAM	28.7	EIRP	0.741
LTE-Band 2 (Bandwidth 15MHz) QPSK	29.16	EIRP	0.824
LTE-Band 2 (Bandwidth 15MHz) 16QAM	28.94	EIRP	0.783
LTE-Band 2 (Bandwidth 20MHz) QPSK	28.74	EIRP	0.748
LTE-Band 2 (Bandwidth 20MHz) 16QAM	28.81	EIRP	0.760

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	dBm		W
LTE-Band 4 (Bandwidth 1.4MHz) QPSK	28.43	EIRP	0.697
LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	28.51	EIRP	0.710
LTE-Band 4 (Bandwidth 3MHz) QPSK	28.56	EIRP	0.718
LTE-Band 4 (Bandwidth 3MHz) 16QAM	28.64	EIRP	0.731
LTE-Band 4 (Bandwidth 5MHz) QPSK	28.59	EIRP	0.723
LTE-Band 4 (Bandwidth 5MHz) 16QAM	28.46	EIRP	0.701
LTE-Band 4 (Bandwidth 10MHz) QPSK	28.39	EIRP	0.690
LTE-Band 4 (Bandwidth 10MHz) 16QAM	28.41	EIRP	0.693
LTE-Band 4 (Bandwidth 15MHz) QPSK	28.46	EIRP	0.701
LTE-Band 4 (Bandwidth 15MHz) 16QAM	28.55	EIRP	0.716
LTE-Band 4 (Bandwidth 20MHz) QPSK	28.58	EIRP	0.721
LTE-Band 4 (Bandwidth 20MHz) 16QAM	28.63	EIRP	0.729
LTE-Band 5 (Bandwidth 1.4MHz) QPSK	19.90	ERP	0.098
LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	21.09	ERP	0.129
LTE-Band 5 (Bandwidth 3MHz) QPSK	22.17	ERP	0.165
LTE-Band 5 (Bandwidth 3MHz) 16QAM	22.97	ERP	0.198
LTE-Band 5 (Bandwidth 5MHz) QPSK	18.71	ERP	0.074
LTE-Band 5 (Bandwidth 5MHz) 16QAM	20.21	ERP	0.105
LTE-Band 5 (Bandwidth 10MHz) QPSK	18.41	ERP	0.069
LTE-Band 5 (Bandwidth 10MHz) 16QAM	19.84	ERP	0.096
LTE-Band 7 (Bandwidth 5MHz) QPSK	25.65	EIRP	0.367
LTE-Band 7 (Bandwidth 5MHz) 16QAM	25.56	EIRP	0.360
LTE-Band 7 (Bandwidth 10MHz) QPSK	25.19	EIRP	0.330
LTE-Band 7 (Bandwidth 10MHz) 16QAM	25.12	EIRP	0.325
LTE-Band 7 (Bandwidth 15MHz) QPSK	25.21	EIRP	0.332
LTE-Band 7 (Bandwidth 15MHz) 16QAM	25.30	EIRP	0.339
LTE-Band 7 (Bandwidth 20MHz) QPSK	24.91	EIRP	0.310
LTE-Band 7 (Bandwidth 20MHz) 16QAM	24.96	EIRP	0.313

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	dBm		W
LTE-Band 12 (Bandwidth 1.4MHz) QPSK	15.63	ERP	0.037
LTE-Band 12 (Bandwidth 1.4MHz) 16QAM	15.65	ERP	0.037
LTE-Band 12 (Bandwidth 3MHz) QPSK	15.78	ERP	0.038
LTE-Band 12 (Bandwidth 3MHz) 16QAM	15.68	ERP	0.037
LTE-Band 12 (Bandwidth 5MHz) QPSK	15.54	ERP	0.036
LTE-Band 12 (Bandwidth 5MHz) 16QAM	15.83	ERP	0.038
LTE-Band 12 (Bandwidth 10MHz) QPSK	15.34	ERP	0.034
LTE-Band 12 (Bandwidth 10MHz) 16QAM	15.46	ERP	0.035
LTE-Band 13 (Bandwidth 5MHz) QPSK	16.03	ERP	0.040
LTE-Band 13 (Bandwidth 5MHz) 16QAM	16.04	ERP	0.040
LTE-Band 13 (Bandwidth 10MHz) QPSK	15.73	ERP	0.037
LTE-Band 13 (Bandwidth 10MHz) 16QAM	15.78	ERP	0.038
LTE-Band 30 (Bandwidth 5MHz) QPSK	23.41	EIRP	0.219
LTE-Band 30 (Bandwidth 5MHz) 16QAM	22.76	EIRP	0.189
LTE-Band 30 (Bandwidth 10MHz) QPSK	22.64	EIRP	0.184
LTE-Band 30 (Bandwidth 10MHz) 16QAM	21.98	EIRP	0.158

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1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) supports below functions.

Product Feature	
Product Name:	Phablet
Brand Name:	HP
Model No.:	HSTNH-F606V
Model Difference:	N/A
FCC ID:	B94HHF606V
GSM Operating Band(s)	GSM 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 33
CDMA / EVDO	BC0 / BC1
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.8
LTE Operating Band(s)	FCC Band 5: Part 22. / FCC Band 2: Part 24. FCC Band 4 / 7 / 12 / 13 / 30: Part 27.
LTE Rel. Version	Rel.11
Bluetooth Version	V4.1 dual mode + HS
Wi-Fi- Specification	802.11a/b/g/n/ac
NFC Specification	NFC
Wireless Charging	WPC / PMA

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 603-D-2010

KDB971168 D01 Power Meas license Digital System

KDB648474 D03 Wireless Chargers Battery Cover

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: 509634

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 placed on a 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 0.5 dB for low band and 0.8 for high band with 10 dB attenuator and 3.2 splitter.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =0.5+10+3.2=13.7(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =0.8+10+3.2=14.0(dB)

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.8	384
GSM 1900	3.8	319
GPRS 850	3.8	463
GPRS 1900	3.8	396
EDGE 850	3.8	293
EDGE 1900	3.8	259
CDMA BC0	3.8	815
EVDO BC0	3.8	839
CDMA BC1	3.8	825
EVDO BC1	3.8	831
WCDMA B2	3.8	756
WCDMA B4	3.8	861
WCDMA B5	3.8	698

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HSUPA B2	3.8	664
HSUPA B4	3.8	754
HSUPA B5	3.8	634
HSDPA B2	3.8	632
HSDPA B4	3.8	703
HSDPA B5	3.8	587

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 2_1.4M QPSK	3.8 Vdc	698
LTE Band 2_1.4M 16QAM	3.8 Vdc	705
LTE Band 2_3M QPSK	3.8 Vdc	712
LTE Band 2_3M 16QAM	3.8 Vdc	705
LTE Band 2_5M QPSK	3.8 Vdc	722
LTE Band 2_5M 16QAM	3.8 Vdc	728
LTE Band 2_10M QPSK	3.8 Vdc	706
LTE Band 2_10M 16QAM	3.8 Vdc	711
LTE Band 2_15M QPSK	3.8 Vdc	775
LTE Band 2_15M 16QAM	3.8 Vdc	698
LTE Band 2_20M QPSK	3.8 Vdc	706
LTE Band 2_20M 16QAM	3.8 Vdc	728

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 4_1.4M QPSK	3.8 Vdc	895
LTE Band 4_1.4M 16QAM	3.8 Vdc	884
LTE Band 4_3M QPSK	3.8 Vdc	823
LTE Band 4_3M 16QAM	3.8 Vdc	845
LTE Band 4_5M QPSK	3.8 Vdc	803
LTE Band 4_5M 16QAM	3.8 Vdc	881
LTE Band 4_10M QPSK	3.8 Vdc	803
LTE Band 4_10M 16QAM	3.8 Vdc	776
LTE Band 4_15M QPSK	3.8 Vdc	743
LTE Band 4_15M 16QAM	3.8 Vdc	789
LTE Band 4_20M QPSK	3.8 Vdc	803
LTE Band 4_20M 16QAM	3.8 Vdc	812

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 5_1.4M QPSK	3.8	786
LTE Band 5_1.4M 16QAM	3.8	822
LTE Band 5_3M QPSK	3.8	832
LTE Band 5_3M 16QAM	3.8	809
LTE Band 5_5M QPSK	3.8	816
LTE Band 5_5M 16QAM	3.8	798
LTE Band 5_10M QPSK	3.8	803
LTE Band 5_10M 16QAM	3.8	819

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 7_5M QPSK	3.8 Vdc	812
LTE Band 7_5M 16QAM	3.8 Vdc	822
LTE Band 7_10M QPSK	3.8 Vdc	858
LTE Band 7_10M 16QAM	3.8 Vdc	768
LTE Band 7_15M QPSK	3.8 Vdc	857
LTE Band 7_15M 16QAM	3.8 Vdc	885
LTE Band 7_20M QPSK	3.8 Vdc	812
LTE Band 7_20M 16QAM	3.8 Vdc	823

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 12_1.4M QPSK	3.8 Vdc	908
LTE Band 12_1.4M 16QAM	3.8 Vdc	868
LTE Band 12_3M QPSK	3.8 Vdc	912
LTE Band 12_3M 16QAM	3.8 Vdc	864
LTE Band 12_5M QPSK	3.8 Vdc	920
LTE Band 12_5M 16QAM	3.8 Vdc	862
LTE Band 12_10M QPSK	3.8 Vdc	884
LTE Band 12_10M 16QAM	3.8 Vdc	852

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 13_5M QPSK	3.8	825
LTE Band 13_5M 16QAM	3.8	849
LTE Band 13_10M QPSK	3.8	821
LTE Band 13_10M 16QAM	3.8	840

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 30_5M QPSK	3.8 Vdc	812
LTE Band 30_5M 16QAM	3.8 Vdc	882
LTE Band 30_10M QPSK	3.8 Vdc	821
LTE Band 30_10M 16QAM	3.8 Vdc	835

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2.6. Configuration of Tested System

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

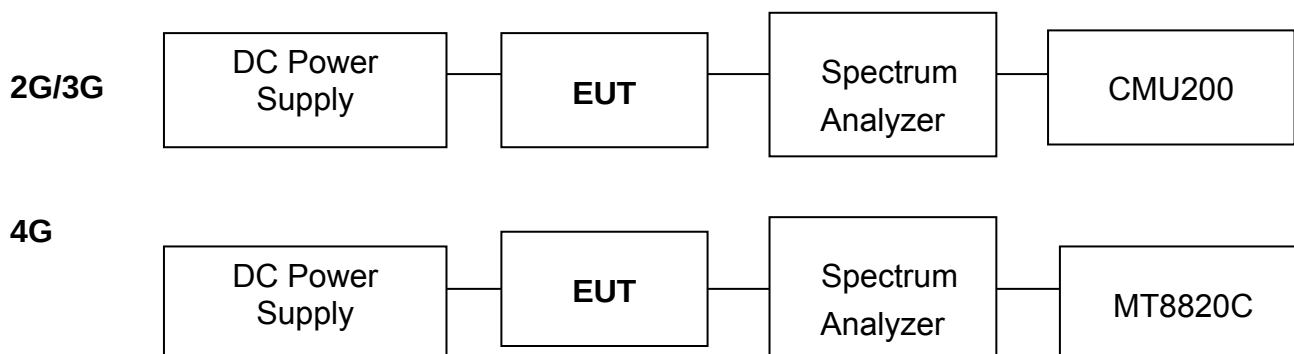


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

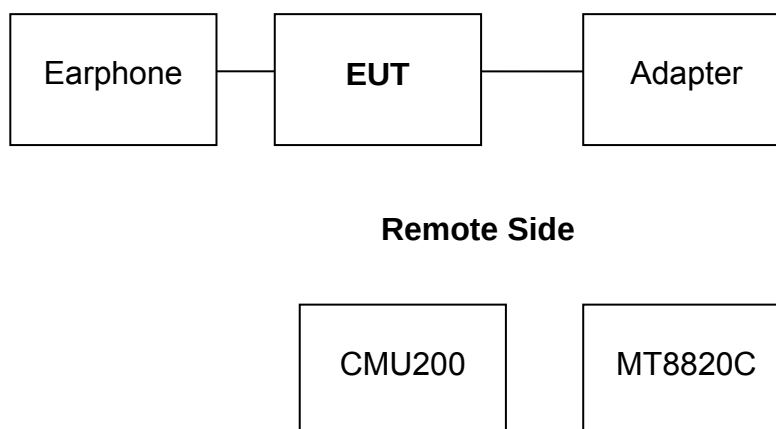


Table 2-1 Equipment Used in

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
3.	DC Power Supply	HP	E3640A	MY40005907	shielded	Un-shielded
4.	Earphone	HP	EH001	N/A	N/A	N/A

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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(B)(3) §27.50(c)(9) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(c)(2), (4) §27.50(c)(5) §27.53(a)(4) §27.53(h) §27.53(m)(4)(6)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant

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§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(a)(4) §27.53(g) §27.53(h) §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§27.53(f)	Spurious emission in 1559 -1610MHz Band	Compliant
§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, X(E1)Y(E2)Z(H) 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 and Wireless charging Cover
GSM/GPRS/EDGE 850	E2-plan	E2-plan
GSM/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 2000 Cellular (BC0)	E1-plan	E1-plan
CDMA 2000 PCS (BC1)	E2-plan	E2-plan
LTE Band 2	E2-plan	E2-plan
LTE Band 4	E2-plan	E2-plan
LTE Band 5	H-plan	H-plan
LTE Band 7	E1-plan	E1-plan
LTE Band 12	H-plan	H-plan
LTE Band 13	E2-plan	E2-plan
LTE Band 30	E1-plan	E1-plan

Note: Additional emissions testing were performed per KDB 648474 D03 and the additional worst case emissions are reported herein and identified as WPC.

Per KDB 648474 D03, spurious emissions measurement data was also investigated with the wireless charging battery cover. The handset was placed on the representative charging pad under normal conditions and in a simulated call configuration.

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GSM/GPRS/EDGE MODE

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

CDMA/EVDO MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	1013 to 777	1013, 384, 777	CDMA2000/ EVDO Cellular BC0
EIRP	25 to 1175	25, 600, 1175	CDMA2000/ EVDO PCS BC1
FREQUENCY STABILITY	1013 to 777 25 to 1175	384 600	CDMA2000/ EVDO Cellular BC0 CDMA2000/ EVDO PCS BC1
OCCUPIED BANDWIDTH	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA2000/ EVDO Cellular BC0 CDMA2000/ EVDO PCS BC1
PEAK TO AVERAGE RATIO	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA2000/ EVDO Cellular BC0 CDMA2000/ EVDO PCS BC1
BAND EDGE	1013 to 777 25 to 1175	1013, 777 25, 1175	CDMA2000 Cellular BC0 CDMA2000 PCS BC1
CONDCUDED EMISSION	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA2000 Cellular BC0 CDMA2000 PCS BC1
RADIATED EMISSION	1013 to 777 25 to 1175	1013, 384, 777 25, 600, 1175	CDMA2000 Cellular BC0 CDMA2000 PCS BC1

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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, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
CONDUCTED 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	HSDPA Band II HSUPA Band IV WCDMA Band V

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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	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	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	19965 to 22385	19965, 20175, 22385	3MHz	16QAM,	1 RB, 0 RB Offest

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	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 Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1 RB/ 0 RB Offest

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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	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB, 0 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	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	1 RB, 24 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 Offest
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
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 Offest Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	1 RB/ 0 RB Offest

LTE Band 30 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	27710	27710	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	27710	27710	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	Full RB
	27710	27710	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	Full RB
	27710	27710	10MHz	16QAM	Full RB
BAND EDGE	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	27710	27710	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK	1 RB, 0 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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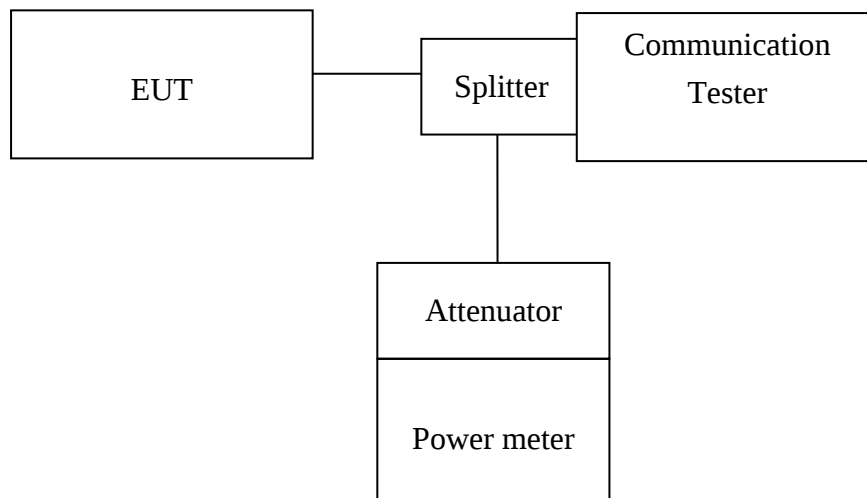
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

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.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyser	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/08/2016	12/07/2017
Power Sensor	Anritsu	MA2411B	917032	12/08/2016	12/07/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/01/2017	12/31/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/01/2017	12/31/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/01/2017	12/31/2017
Splitter	Agilent	11636B	N/A	01/01/2017	12/31/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/04/2016	11/03/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/05/2016	05/04/2017
Radio Communication Analyser	Anritsu	MT8820C	6201465317	12/09/2016	12/08/2017

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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6.5. Measurement Result

RF Conducted Output Power

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

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Averager Burst Power (dBm)
GSM 850	824.2	128	32.30	32.40
	836.6	190	32.50	32.30
	848.8	251	32.60	32.40
GSM 1900	1850.2	512	29.40	29.20
	1880.0	661	29.70	29.50
	1909.8	810	29.90	29.60

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	32.40	32.30	29.70	29.60	27.80	27.60	27.00	26.80
	836.6	190	32.60	32.40	29.80	29.60	27.80	27.70	27.00	26.90
	848.8	251	32.70	32.50	29.80	29.60	27.90	27.70	27.00	26.90
GPRS 1900	1850.2	512	29.40	29.30	27.10	27.00	26.20	26.10	25.10	25.00
	1880.0	661	29.70	29.40	27.10	26.90	26.10	25.90	25.00	24.80
	1909.8	810	29.90	29.60	27.20	26.90	26.00	25.80	24.20	24.20
EDGE 850	824.2	128	29.20	26.00	29.00	25.90	29.00	25.90	28.80	25.70
	836.6	190	29.20	26.00	29.10	25.90	29.00	25.90	28.80	25.70
	848.8	251	29.30	26.00	29.10	25.90	29.00	25.90	28.80	25.70
EDGE 1900	1850.2	512	28.30	25.00	28.20	24.90	27.80	24.70	27.60	24.60
	1880.0	661	28.30	25.00	28.20	24.90	27.70	24.70	27.50	24.50
	1909.8	810	28.40	25.00	28.20	24.90	27.70	24.50	27.50	24.40

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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	25.70	23.10	25.44	21.81	24.92	21.20
1880.0	9400	26.06	23.03	25.37	21.85	24.77	21.23
1907.6	9538	25.98	23.00	25.00	21.81	24.81	21.28

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	26.00	22.84	25.37	21.69	24.83	21.12
1732.6	1412	25.87	22.64	25.07	21.45	24.62	21.02
1752.6	1513	26.16	22.83	25.38	21.68	24.98	21.19

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	27.83	24.09	26.04	22.24	26.65	22.66
836.6	4183	27.49	23.84	25.94	22.07	26.45	22.61
846.6	4233	27.66	23.98	26.14	22.23	26.53	22.71

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CDMA2000/EVDO MODE

Mode	Freq. (MHz)	CH	Avg. Power (dBm)
CDMA 2000 Cellular BC0	824.7	1013	23.41
	836.52	384	23.82
	848.31	777	23.66

Mode	Freq. (MHz)	CH	Avg. Power (dBm)
CDMA 2000 PCS BC1	1851.25	25	23.43
	1880	600	23.55
	1908.75	1175	23.76

Mode	Freq. (MHz)	CH	Avg. Power (dBm)
CDMA 2000 EVDO Cellular	824.7	1013	23.12
	836.5	384	23.33
	848.3	777	23.76

Mode	Freq. (MHz)	CH	Avg. Power (dBm)
CDMA 2000 EVDO PCS	1851.25	25	23.13
	1880	600	23.18
	1908.75	1175	23.24

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

Cable loss offset Low Band: 0.5dB, Cable loss offset High Band: 0.8dB

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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	22.88	22.69	22.57	22.02	22	21.92
	1	5	22.72	22.75	22.61	22.16	21.98	21.86
	3	2	22.92	22.84	22.63	21.95	21.84	21.73
	6	0	21.96	21.82	21.7	21	20.85	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) 18615	Channel (Mid) 18900	Channel (High) 19185	Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185
3	1	0	22.87	22.83	22.73	22.17	21.58	21.96
	1	14	22.88	22.74	22.57	22.16	21.86	21.96
	8	4	22.07	21.94	21.82	21.14	21	20.9
	15	0	22.03	21.88	21.79	20.98	20.9	20.73

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	23.16	23.03	22.97	22.48	22.28	22.01
	1	24	22.9	22.77	22.7	22.02	21.91	21.74
	12	6	22.02	21.92	21.8	21.02	20.93	20.81
	25	0	22.01	21.92	21.76	21.02	20.83	20.78

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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	23.35	23.18	22.9	22.49	22.35	22.35
	1	49	22.84	22.76	22.77	22.01	21.68	21.91
	25	12	21.99	21.99	22.03	21.03	20.9	20.97
	50	0	22.1	21.95	21.84	21.11	20.95	20.88

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	23.53	23.33	23.32	22.71	22.75	22.56
	1	74	22.96	22.78	22.65	22.12	22.03	22.15
	36	19	22.14	22.11	21.91	21.1	20.99	20.99
	75	0	22.22	22.1	21.98	21.18	21.08	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) 18700	Channel (Mid) 18900	Channel (High) 19100	Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100
20	1	0	23.88	23.75	23.62	22.9	22.98	22.9
	1	99	23.08	22.94	22.96	22.33	21.95	21.95
	50	25	22.12	22.03	21.76	21.08	21.05	20.97
	100	0	22.28	22.16	22.05	21.26	21.17	21.03

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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	22.59	22.36	22.41	21.76	21.53	21.66
	1	5	22.52	22.31	22.43	21.68	21.53	21.58
	3	2	22.76	22.38	22.47	21.85	21.5	21.53
	6	0	21.66	21.35	21.51	20.87	20.43	20.54

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	22.57	22.52	22.51	21.87	21.71	21.9
	1	14	22.43	22.3	22.4	21.78	21.48	21.39
	8	4	21.87	21.47	21.59	20.92	20.56	20.62
	15	0	21.79	21.42	21.63	20.77	20.5	20.61

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	22.84	22.6	22.6	22.05	21.55	21.52
	1	24	22.71	22.36	22.36	21.85	21.46	21.56
	12	6	21.75	21.47	21.47	20.75	20.5	20.45
	25	0	21.71	21.42	21.42	20.72	20.45	20.55

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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	23.16	22.8	22.84	22.31	21.93	21.56
	1	49	22.47	22.5	22.43	21.68	21.64	21.67
	25	12	21.76	21.58	21.63	20.76	20.6	20.58
	50	0	21.82	21.55	21.64	20.76	20.62	20.67

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	23.15	23.15	22.88	22.42	22.22	21.95
	1	74	22.68	22.48	22.48	21.98	21.74	21.84
	36	19	21.64	21.63	21.49	20.68	20.69	20.5
	75	0	21.71	21.7	21.64	20.69	20.67	20.59

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	23.17	23.56	23.24	22.77	22.67	22.48
	1	99	22.64	22.48	22.59	21.96	21.69	22.06
	50	25	21.8	21.64	21.63	20.81	20.48	20.65
	100	0	21.95	21.8	21.85	20.83	20.85	20.79

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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	23.19	22.95	23.06	22.2	22.01	22.31
	1	5	23.07	23.01	23.25	22.04	22	22.26
	3	2	22.96	22.96	23.03	21.98	21.85	21.99
	6	0	21.71	21.82	21.84	20.93	20.75	20.81

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	22.58	22.65	22.89	22.24	21.9	22.19
	1	14	22.77	22.78	22.9	22.03	22.01	22.16
	8	4	21.89	21.79	21.84	20.84	20.87	20.89
	15	0	21.69	21.71	21.71	20.88	20.82	20.89

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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	22.82	22.73	22.54	22.23	21.94	21.94
	1	24	22.59	22.67	22.93	22.05	22.12	21.95
	12	6	21.83	21.86	21.8	20.85	20.88	20.78
	25	0	21.77	21.75	21.82	20.76	20.78	20.9

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	22.89	22.79	22.95	22.2	22.1	22.13
	1	49	22.62	22.77	22.8	21.74	22.15	21.91
	25	12	21.99	21.91	21.9	20.9	20.85	20.65
	50	0	21.75	21.93	21.91	20.79	20.89	20.86

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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	21.5	21.6	21.71	20.64	20.77	20.69
	1	24	21.44	21.47	21.63	20.29	20.68	20.61
	12	6	20.3	20.62	20.51	19.24	19.61	19.55
	25	0	20.32	20.54	20.4	19.26	19.64	19.51

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	21.69	21.86	21.71	20.78	21.06	20.91
	1	49	21.52	21.52	21.6	20.56	20.73	20.37
	25	12	20.45	20.66	20.48	19.44	19.61	19.52
	50	0	20.36	20.62	20.54	19.3	19.54	19.52

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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	21.66	21.44	21.72	20.75	20.96	21.18
	1	74	21.42	21.55	21.29	20.71	20.85	20.68
	36	19	20.51	20.63	20.39	19.45	19.36	19.38
	75	0	20.54	20.57	20.44	19.45	19.58	19.48

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	21.5	21.77	21.8	21.09	21.3	21.23
	1	99	21.57	21.65	21.25	20.67	21.13	20.87
	50	25	20.42	20.56	20.46	19.48	19.54	19.48
	100	0	20.62	20.6	20.52	19.64	19.67	19.52

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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	23.21	23.41	23.45	22.79	22.4	22.67
	1	5	23.46	23.32	23.45	22.62	22.58	22.8
	3	2	23.56	23.41	23.66	22.49	22.46	22.48
	6	0	22.49	22.23	22.54	20.34	21.27	21.63

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	23.59	23.34	23.58	22.79	22.65	22.49
	1	14	23.49	23.35	23.53	22.66	22.56	22.7
	8	4	22.51	22.42	22.66	21.52	21.44	21.75
	15	0	22.55	22.38	22.53	21.32	21.38	21.61

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	23.53	23.29	23.37	22.67	22.3	22.52
	1	24	23.4	23.33	23.72	22.67	22.44	22.98
	12	6	22.49	22.4	22.68	21.48	21.42	21.63
	25	0	22.46	22.35	22.6	21.47	21.39	21.63

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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) 23060	Channel (Mid) 23095	Channel (High) 23130	Channel (Low) 23060	Channel (Mid) 23095	Channel (High) 23130
10	1	0	23.45	23.3	23.35	22.67	22.54	22.55
	1	49	23.29	23.39	23.47	22.57	22.58	22.77
	25	12	22.47	22.42	22.49	21.45	21.39	21.47
	50	0	22.5	22.38	22.51	21.45	21.38	21.5

LTE Band 13

LTE Band 13_Uplink frequency band : 779.5 to 784.5 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	23.73	23.71	23.77	22.60	22.72	22.55
	1	24	23.80	23.63	23.70	22.69	22.71	22.78
	12	6	22.81	22.73	22.81	21.78	21.62	21.78
	25	0	22.77	22.62	22.73	21.76	21.61	21.73

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
				Channel (Mid) 23230			Channel (Mid) 23230	
10	1	0		23.66			22.79	
	1	49		23.58			22.69	
	25	12		22.70			21.66	
	50	0		22.77			21.76	

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LTE Band 30

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 27685	Channel (Mid) 27710	Channel (High) 27735	Channel (Low) 27685	Channel (Mid) 27710	Channel (High) 27735
5	1	0	21.51	21.64	21.74	20.55	20.79	20.98
	1	24	21.6	21.52	21.55	20.82	20.87	20.64
	12	6	20.67	20.59	20.66	19.71	19.69	19.67
	25	0	20.61	20.61	20.59	19.55	19.69	19.63

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz				
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)	
			QPSK	16QAM
			Channel (Mid) 27710	Channel (Mid) 27710
10	1	0	21.55	20.61
	1	49	21.53	20.78
	25	12	20.67	19.71
	50	0	20.66	19.64

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HSDPA Release 6 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	23.27	22.92	22.86	20.3dBm – 25.7dBm	Pass
	2	22.98	22.89	22.85	20.3dBm – 25.7dBm	Pass
	3	22.79	22.47	22.33	19.8dBm – 25.7dBm	Pass
	4	22.86	22.48	22.45	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	22.55	22.74	22.67	20.3dBm – 25.7dBm	Pass
	2	22.72	22.50	22.68	20.3dBm – 25.7dBm	Pass
	3	22.07	22.29	22.14	19.8dBm – 25.7dBm	Pass
	4	22.14	22.30	22.26	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	23.88	23.70	24.10	20.3dBm – 25.7dBm	Pass
	2	24.02	23.73	23.85	20.3dBm – 25.7dBm	Pass
	3	23.42	23.22	23.61	19.8dBm – 25.7dBm	Pass
	4	23.47	23.26	23.67	19.8dBm – 25.7dBm	Pass

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HSPA (HSDPA & HSUPA) Release 6 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.

Results:

Mode	Sub-test	Avg. Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.02	23.01	22.94	18.8dBm – 25.7dBm	Pass
	2	21.07	21.08	20.98	16.8dBm – 25.7dBm	Pass
	3	22.08	22.03	22.02	17.8dBm – 25.7dBm	Pass
	4	21.20	21.13	21.02	16.8dBm – 25.7dBm	Pass
	5	22.91	22.87	22.85	18.8dBm – 25.7dBm	Pass

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Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	22.76	22.62	22.77	20.3dBm – 25.7dBm	Pass
	2	20.81	20.69	20.81	20.3dBm – 25.7dBm	Pass
	3	21.82	21.64	21.85	19.8dBm – 25.7dBm	Pass
	4	20.94	20.74	20.85	19.8dBm – 25.7dBm	Pass
	5	22.65	22.48	22.68	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	24.05	23.77	23.90	18.8dBm – 25.7dBm	Pass
	2	22.11	21.85	21.94	16.8dBm – 25.7dBm	Pass
	3	23.09	22.83	22.98	17.8dBm – 25.7dBm	Pass
	4	22.16	21.91	22.02	16.8dBm – 25.7dBm	Pass
	5	23.91	23.60	23.79	18.8dBm – 25.7dBm	Pass

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Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	29.6	27.6	25.6	23.6	21.6	19.2	17.2	15.2	13.2

PCL	9	10	11	12	13	14	15
Output power (dBm)	11.2	9.2	7.2	5.1	3.2	1.5	-0.2

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU200 PCL as above, and get the mobile phone output power reading.

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

According to FCC §2.1046

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

FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(B) (3) Mobile and portable stations. (i) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

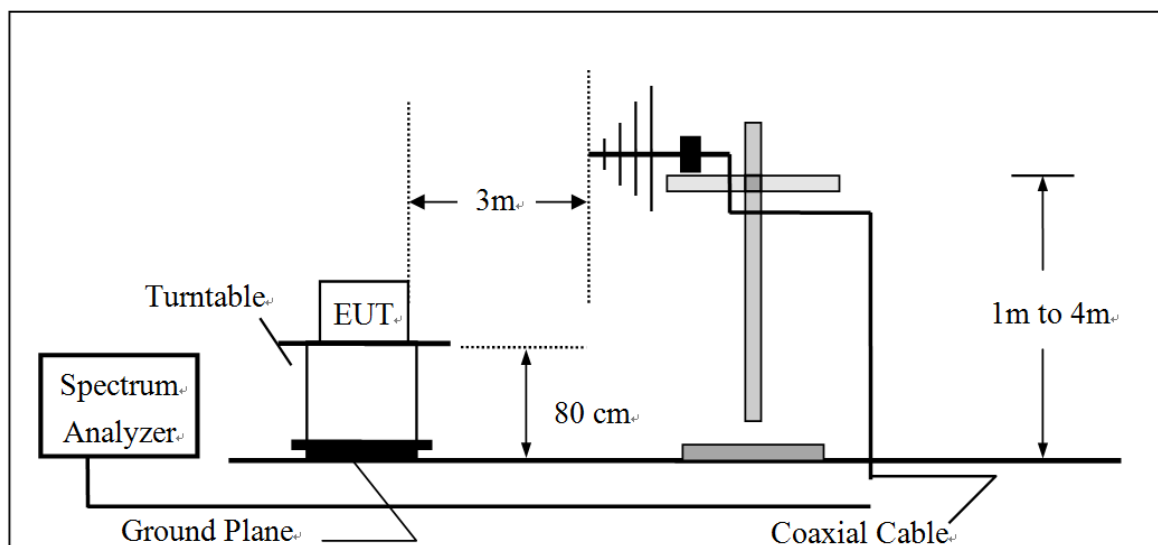
FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3W ERP.

FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

7.2. Test SET-UP

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



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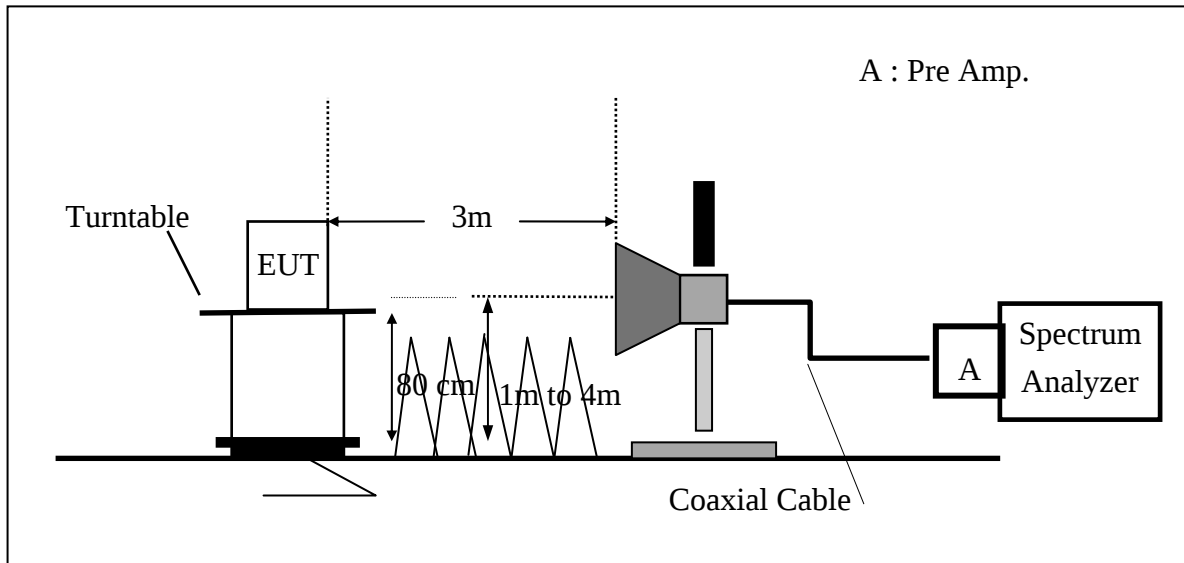
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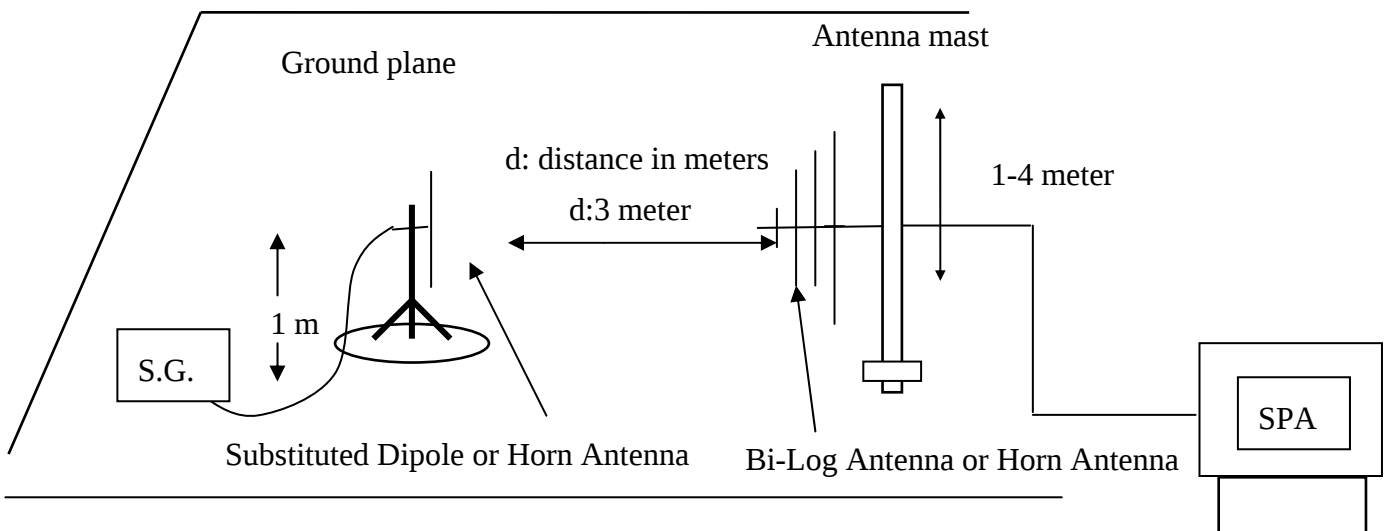
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(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 $\approx 1 \sim 5\%$ 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 = $601 \times 10^{-3} = 6s$).

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 $10 \times \log(TBW/RBW)$, 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.
EMI Test Receiver	R&S	ESCI7	100760	05/08/2015	05/09/2016
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/10/2015	08/09/2016
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
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	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/02/2015	07/01/2016
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016
Radio Communication Analyer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/28/2017	01/27/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/06/2016	09/05/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/13/2017	12/12/2018
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/01/2017	12/31/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/01/2017	12/31/2017
Low Loss Cable	Huber Suhner	966_RX	9	01/01/2017	12/31/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/01/2017	12/31/2017
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyer	Anritsu	MT8820C	6201465317	12/09/2016	12/08/2017

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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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
GSM 850	824.2	128	V	24.62	3.31	-2.92	25	38.45
			H	24.77	3.31	-2.92	25.15	38.45
	836.6	190	V	25.31	3.29	-2.96	25.63	38.45
			H	25.96	3.29	-2.96	26.29	38.45
	848.8	251	V	24.38	3.27	-3	24.65	38.45
			H	25.93	3.27	-3	26.19	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
GPRS 850	824.2	128	V	24.41	3.31	-2.92	24.79	38.45
			H	24.71	3.31	-2.92	25.09	38.45
	836.6	190	V	25.4	3.29	-2.96	25.72	38.45
			H	25.94	3.29	-2.96	26.26	38.45
	848.8	251	V	24.62	3.27	-3	24.89	38.45
			H	26.07	3.27	-3	26.34	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	20.46	3.31	-2.92	20.84	38.45
			H	20.52	3.31	-2.92	20.9	38.45
	836.6	190	V	21.8	3.29	-2.96	22.12	38.45
			H	22.2	3.29	-2.96	22.52	38.45
	848.8	251	V	21.89	3.27	-3	22.16	38.45
			H	23.2	3.27	-3	23.47	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
GSM 1900	1850.2	512	V	23.31	9.94	-4.46	28.79	33.01
			H	24.6	9.94	-4.46	30.08	33.01
	1880.0	661	V	22.9	10.03	-4.51	28.42	33.01
			H	24.6	10.03	-4.51	30.12	33.01
	1909.8	810	V	22.48	10.13	-4.55	28.06	33.01
			H	23.32	10.13	-4.55	28.9	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
GPRS 1900	1850.2	512	V	21.38	9.94	-4.46	26.86	33.01
			H	24.66	9.94	-4.46	30.14	33.01
	1880.0	661	V	22.47	10.03	-4.51	27.99	33.01
			H	24.63	10.03	-4.51	30.15	33.01
	1909.8	810	V	22.14	10.13	-4.55	27.72	33.01
			H	24.95	10.13	-4.55	30.52	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	20.78	9.94	-4.46	26.26	33.01
			H	23.28	9.94	-4.46	28.76	33.01
	1880.0	661	V	20.86	10.03	-4.51	26.38	33.01
			H	21.72	10.03	-4.51	27.24	33.01
	1909.8	810	V	22.45	10.13	-4.55	28.02	33.01
			H	24.55	10.13	-4.55	30.13	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300K, 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 2000 Cellular BC0	824.7	1013	V	12.19	3.30	-2.93	12.57	38.45
			H	13.35	3.30	-2.93	13.73	38.45
	836.52	384	V	11.49	3.29	-2.96	11.82	38.45
			H	12.39	3.29	-2.96	12.72	38.45
	848.31	777	V	11.55	3.27	-3.00	11.82	38.45
			H	11.39	3.27	-3.00	11.66	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 2000 Cellular BC0	824.7	1013	V	11.81	3.30	-2.93	12.19	38.45
			H	13.11	3.30	-2.93	13.48	38.45
	836.52	384	V	12.06	3.29	-2.96	12.38	38.45
			H	12.53	3.29	-2.96	12.85	38.45
	848.31	777	V	11.55	3.27	-3.00	11.82	38.45
			H	11.50	3.27	-3.00	11.77	38.45

Remark: The RBW,VBW of SPA for frequency RBW=300KHz, 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	dBd	dB	dBm	dBm
CDMA 2000 PCS BC1	1851.25	25	V	0.69	9.94	-4.46	6.17	33.00
			H	5.74	9.94	-4.46	11.22	33.00
	1880.00	600	V	1.56	10.03	-4.51	7.08	33.00
			H	4.54	10.04	-4.51	10.06	33.00
	1908.75	1175	V	1.51	10.13	-4.55	7.08	33.00
			H	6.03	10.13	-4.55	11.61	33.00

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
EVDO 2000 PCS BC1	1851.25	25	V	0.28	9.94	-4.46	5.76	33.00
			H	5.46	9.94	-4.46	10.94	33.00
	1880.00	600	V	-0.15	10.04	-4.51	5.37	33.00
			H	4.37	10.03	-4.51	9.89	33.00
	1908.75	1175	V	1.23	10.13	-4.55	6.81	33.00
			H	5.72	10.13	-4.55	11.30	33.00

Remark: The RBW,VBW of SPA for frequency RBW=300KHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
WCDMA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	21.75	9.95	-4.46	27.23	33.01
			H	21.25	9.95	-4.46	26.74	33.01
	1880.0	9400	V	21.85	10.03	-4.51	27.38	33.01
			H	21.78	10.04	-4.51	27.31	33.01
	1907.6	9538	V	19.93	10.12	-4.55	25.51	33.01
			H	21.91	10.12	-4.55	27.48	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
HSDPA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	21.15	9.95	-4.46	26.64	33.01
			H	22.61	9.95	-4.46	28.09	33.01
	1880.0	9400	V	19.77	10.04	-4.51	25.3	33.01
			H	21.59	10.03	-4.51	27.11	33.01
	1907.6	9538	V	19.27	10.12	-4.55	24.85	33.01
			H	20.2	10.12	-4.55	25.77	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
HSUPA B2	MHz		V/H	dBm	dBi	dB	dBm	dBm
	1852.4	9262	V	19.13	9.95	-4.46	24.61	33.01
			H	21.12	9.95	-4.46	26.61	33.01
	1880.0	9400	V	19.64	10.03	-4.51	25.17	33.01
			H	20.21	10.03	-4.51	25.74	33.01
	1907.6	9538	V	18.8	10.12	-4.55	24.37	33.01
			H	19.33	10.12	-4.55	24.9	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	20.73	9.48	-4.31	25.9	30.00
			H	23.81	9.48	-4.31	28.98	30.00
	1732.6	1413	V	21.79	9.55	-4.31	27.03	30.00
			H	23.88	9.55	-4.31	29.12	30.00
	1752.6	1513	V	21.11	9.62	-4.34	26.4	30.00
			H	23.3	9.62	-4.33	28.59	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	0.01	9.48	-4.31	26.43	30.00
			H	0.03	9.48	-4.31	27.43	30.00
	1732.6	1413	V	21.96	9.55	-4.31	27.2	30.00
			H	22.7	9.55	-4.31	27.94	30.00
	1752.6	1513	V	20.8	9.62	-4.33	26.09	30.00
			H	21.83	9.62	-4.33	27.11	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	21.68	9.49	-4.31	26.85	30.00
			H	23.84	9.48	-4.31	29.02	30.00
	1732.6	1413	V	20.3	9.55	-4.31	25.54	30.00
			H	23.15	9.55	-4.31	28.4	30.00
	1752.6	1513	V	20.47	9.62	-4.34	25.75	30.00
			H	0.61	9.62	-4.34	29.23	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	21.63	3.3	-2.93	22	38.45
			H	21.32	3.3	-2.93	21.69	38.45
	836.6	4183	V	21.36	3.29	-2.97	21.68	38.45
			H	21.93	3.29	-2.96	22.26	38.45
	846.6	4233	V	21.01	3.27	-3	21.29	38.45
			H	24.44	3.27	-2.99	24.72	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	20.23	3.3	-2.93	20.61	38.45
			H	20.23	3.3	-2.93	20.61	38.45
	836.6	4183	V	21.68	3.29	-2.96	22	38.45
			H	21.73	3.29	-2.96	22.05	38.45
	846.6	4233	V	21.37	3.27	-3	21.64	38.45
			H	21.42	3.27	-2.99	21.7	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	20.31	3.3	-2.93	20.68	38.45
			H	20.23	3.3	-2.93	20.6	38.45
	836.6	4183	V	21.12	3.29	-2.96	21.45	38.45
			H	21.06	3.29	-2.96	21.38	38.45
	846.6	4233	V	19.99	3.27	-3	20.26	38.45
			H	20.94	3.27	-2.99	21.22	38.45

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
BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	14.99	9.95	-4.46	20.47	33.01
			H	23.4	9.95	-4.46	28.88	33.01
	1880.0	18900	V	15.29	10.03	-4.51	20.81	33.01
			H	23.44	10.03	-4.51	28.97	33.01
	1909.3	19193	V	14.42	10.12	-4.55	19.99	33.01
			H	21.32	10.12	-4.55	26.89	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	15.1	9.95	-4.46	20.59	33.01
			H	23.4	9.95	-4.47	28.88	33.01
	1880.0	18900	V	15.4	10.03	-4.51	20.93	33.01
			H	23.19	10.04	-4.51	28.72	33.01
	1909.3	19193	V	14.22	10.12	-4.55	19.8	33.01
			H	21.15	10.12	-4.55	26.72	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	15.25	9.95	-4.46	20.73	33.01
			H	23.39	9.95	-4.46	28.87	33.01
	1880.0	18900	V	15.42	10.03	-4.51	20.95	33.01
			H	23.39	10.03	-4.51	28.91	33.01
	1909.3	19193	V	14.48	10.12	-4.55	20.05	33.01
			H	21.35	10.12	-4.55	26.92	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	15.22	9.94	-4.46	20.7	33.01
			H	23.49	9.95	-4.46	28.97	33.01
	1880.0	18900	V	15.51	10.03	-4.51	21.03	33.01
			H	23.37	10.03	-4.51	28.89	33.01
	1909.3	19193	V	14.31	10.12	-4.55	19.89	33.01
			H	21.21	10.12	-4.55	26.79	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	15.16	9.95	-4.46	20.65	33.01
			H	23.26	9.95	-4.46	28.74	33.01
	1880.0	18900	V	15.1	10.02	-4.5	20.62	33.01
			H	23.26	10.03	-4.5	28.79	33.01
	1908.5	19185	V	14.84	10.12	-4.55	20.41	33.01
			H	21.6	10.11	-4.55	27.17	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	14.92	9.94	-4.46	20.4	33.01
			H	23.4	9.94	-4.46	28.88	33.01
	1880.0	18900	V	15.18	10.03	-4.51	20.7	33.01
			H	23.24	10.03	-4.51	28.76	33.01
	1908.5	19185	V	14.42	10.12	-4.55	19.99	33.01
			H	21.27	10.12	-4.55	26.84	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	15.21	9.95	-4.46	20.69	33.01
			H	23.29	9.95	-4.46	28.78	33.01
	1880.0	18900	V	15.06	10.02	-4.5	20.58	33.01
			H	23.27	10.04	-4.51	28.8	33.01
	1908.5	19185	V	14.82	10.11	-4.55	20.38	33.01
			H	21.7	10.12	-4.55	27.27	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	14.86	9.94	-4.46	20.34	33.01
			H	23.37	9.94	-4.46	28.85	33.01
	1880.0	18900	V	15.12	10.03	-4.51	20.64	33.01
			H	23.13	10.04	-4.51	28.66	33.01
	1908.5	19185	V	14.47	10.12	-4.55	20.04	33.01
			H	21.16	10.12	-4.55	26.74	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: 5M QPSK RB: 1,0	1852.5	18625	V	16.87	9.95	-4.46	22.35	33.01
			H	22.98	9.95	-4.46	28.47	33.01
	1880.0	18900	V	15.68	10.02	-4.5	21.2	33.01
			H	23.09	10.03	-4.51	28.61	33.01
	1907.5	19175	V	15.59	10.11	-4.54	21.16	33.01
			H	22.15	10.11	-4.54	27.71	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	16.15	9.95	-4.47	21.64	33.01
			H	22.87	9.95	-4.47	28.36	33.01
	1880.0	18900	V	15.5	10.04	-4.51	21.02	33.01
			H	22.31	10.04	-4.51	27.83	33.01
	1907.5	19175	V	15.21	10.12	-4.55	20.78	33.01
			H	21.63	10.12	-4.55	27.2	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	16.5	9.95	-4.46	21.98	33.01
			H	22.92	9.95	-4.46	28.4	33.01
	1880.0	18900	V	15.44	10.02	-4.5	20.96	33.01
			H	23.12	10.02	-4.5	28.64	33.01
	1907.5	19175	V	15.41	10.11	-4.54	20.97	33.01
			H	22.25	10.11	-4.54	27.82	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	15.88	9.95	-4.46	21.36	33.01
			H	23.02	9.95	-4.47	28.5	33.01
	1880.0	18900	V	15.22	10.04	-4.51	20.75	33.01
			H	22.52	10.04	-4.51	28.04	33.01
	1907.5	19175	V	14.87	10.12	-4.55	20.44	33.01
			H	21.73	10.12	-4.55	27.3	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: 10M QPSK RB: 1,0	1855.0	18650	V	16.51	9.95	-4.46	21.99	33.01
			H	23.18	9.95	-4.46	28.66	33.01
	1880.0	18900	V	15.47	10.03	-4.5	20.99	33.01
			H	23.06	10.02	-4.5	28.58	33.01
	1905.0	19150	V	15.36	10.09	-4.54	20.92	33.01
			H	22.36	10.09	-4.54	27.91	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	15.24	9.96	-4.47	20.73	33.01
			H	22.95	9.96	-4.47	28.44	33.01
	1880.0	18900	V	15.11	10.04	-4.51	20.64	33.01
			H	22.32	10.04	-4.51	27.85	33.01
	1905.0	19150	V	14.87	10.12	-4.55	20.45	33.01
			H	21.86	10.12	-4.55	27.43	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	16.38	9.95	-4.46	21.86	33.01
			H	23.13	9.95	-4.46	28.62	33.01
	1880.0	18900	V	15.48	10.02	-4.5	21	33.01
			H	23.18	10.02	-4.5	28.7	33.01
	1905.0	19150	V	15.5	10.1	-4.54	21.06	33.01
			H	22.24	10.09	-4.54	27.8	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	15.21	9.96	-4.47	20.71	33.01
			H	22.96	9.97	-4.47	28.46	33.01
	1880.0	18900	V	15.06	10.04	-4.51	20.59	33.01
			H	22.25	10.04	-4.51	27.78	33.01
	1905.0	19150	V	14.87	10.12	-4.55	20.44	33.01
			H	21.73	10.12	-4.55	27.31	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	16.22	9.95	-4.46	21.7	33.01
			H	23.2	9.95	-4.46	28.69	33.01
	1880.0	18900	V	15.91	10.01	-4.5	21.42	33.01
			H	23.64	10.02	-4.5	29.16	33.01
	1902.5	19125	V	15.34	10.08	-4.53	20.89	33.01
			H	22.33	10.09	-4.53	27.89	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	15.85	9.98	-4.48	21.35	33.01
			H	22.9	9.98	-4.48	28.4	33.01
	1880.0	18900	V	15.4	10.05	-4.52	20.94	33.01
			H	21.98	10.05	-4.52	27.52	33.01
	1902.5	19125	V	15.26	10.12	-4.55	20.84	33.01
			H	21.77	10.12	-4.55	27.35	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	16.39	9.95	-4.46	21.88	33.01
			H	22.98	9.95	-4.46	28.46	33.01
	1880.0	18900	V	16.28	10.01	-4.5	21.79	33.01
			H	23.43	10.02	-4.5	28.94	33.01
	1902.5	19125	V	15.51	10.08	-4.53	21.06	33.01
			H	22.09	10.09	-4.53	27.64	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	15.95	9.98	-4.48	21.45	33.01
			H	22.99	9.98	-4.48	28.49	33.01
	1880.0	18900	V	15.49	10.05	-4.52	21.02	33.01
			H	22.03	10.05	-4.52	27.57	33.01
	1902.5	19125	V	15.23	10.12	-4.55	20.8	33.01
			H	21.75	10.12	-4.55	27.32	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	14.56	9.95	-4.46	20.05	33.01
			H	22.99	9.94	-4.46	28.47	33.01
	1880.0	18900	V	15.5	10	-4.49	21.01	33.01
			H	23.23	10.01	-4.5	28.74	33.01
	1900.0	19100	V	15.07	10.07	-4.53	20.61	33.01
			H	21.94	10.07	-4.52	27.48	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	15.13	10	-4.49	20.63	33.01
			H	22.86	9.99	-4.49	28.36	33.01
	1880.0	18900	V	15.05	10.06	-4.52	20.59	33.01
			H	21.74	10.06	-4.52	27.27	33.01
	1900.0	19100	V	15.3	10.12	-4.55	20.87	33.01
			H	21.8	10.12	-4.55	27.37	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	14.75	9.95	-4.46	20.23	33.01
			H	22.88	9.95	-4.46	28.36	33.01
	1880.0	18900	V	15.51	10.01	-4.5	21.03	33.01
			H	23.3	10.01	-4.5	28.81	33.01
	1900.0	19100	V	15.25	10.07	-4.52	20.79	33.01
			H	22.01	10.07	-4.53	27.56	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	15.16	10	-4.49	20.67	33.01
			H	23.11	9.99	-4.49	28.62	33.01
	1880.0	18900	V	15.25	10.06	-4.52	20.78	33.01
			H	21.79	10.06	-4.52	27.32	33.01
	1900.0	19100	V	15.37	10.12	-4.55	20.95	33.01
			H	21.78	10.12	-4.55	27.35	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	16.57	9.48	-4.31	21.74	30.00
			H	22.44	9.48	-4.31	27.61	30.00
	1732.5	20175	V	16.46	9.56	-4.31	21.71	30.00
			H	22.37	9.55	-4.31	27.61	30.00
	1754.3	20393	V	17	9.62	-4.34	22.28	30.00
			H	23.15	9.62	-4.34	28.43	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	16.85	9.47	-4.31	22.01	30.00
			H	22.47	9.47	-4.31	27.64	30.00
	1732.5	20175	V	16.47	9.55	-4.31	21.71	30.00
			H	22.56	9.55	-4.31	27.8	30.00
	1754.3	20393	V	16.85	9.62	-4.34	22.13	30.00
			H	23.04	9.62	-4.34	28.33	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	16.55	9.48	-4.31	21.72	30.00
			H	22.42	9.48	-4.31	27.59	30.00
	1732.5	20175	V	16.62	9.54	-4.31	21.85	30.00
			H	22.73	9.55	-4.31	27.97	30.00
	1754.3	20393	V	17.03	9.62	-4.34	22.31	30.00
			H	23.23	9.62	-4.34	28.51	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	16.88	9.47	-4.31	22.04	30.00
			H	22.61	9.47	-4.31	27.78	30.00
	1732.5	20175	V	16.57	9.55	-4.31	21.81	30.00
			H	22.68	9.55	-4.31	27.91	30.00
	1754.3	20393	V	16.97	9.62	-4.34	22.25	30.00
			H	23.17	9.62	-4.34	28.45	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	16.99	9.48	-4.31	22.16	30.00
			H	22.46	9.48	-4.31	27.63	30.00
	1732.5	20175	V	16.26	9.55	-4.31	21.5	30.00
			H	22.67	9.54	-4.31	27.9	30.00
	1753.5	20385	V	17.4	9.61	-4.33	22.68	30.00
			H	23.28	9.61	-4.33	28.56	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	17.28	9.48	-4.31	22.45	30.00
			H	22.59	9.48	-4.31	27.76	30.00
	1732.5	20175	V	16.33	9.55	-4.31	21.57	30.00
			H	22.51	9.56	-4.31	27.77	30.00
	1753.5	20385	V	17.02	9.62	-4.34	22.31	30.00
			H	22.99	9.62	-4.34	28.28	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	16.92	9.48	-4.31	22.09	30.00
			H	22.41	9.48	-4.31	27.58	30.00
	1732.5	20175	V	16.2	9.54	-4.31	21.43	30.00
			H	22.59	9.54	-4.31	27.83	30.00
	1753.5	20385	V	17.36	9.61	-4.33	22.64	30.00
			H	23.35	9.61	-4.33	28.64	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	17.4	9.48	-4.31	22.56	30.00
			H	22.71	9.49	-4.31	27.89	30.00
	1732.5	20175	V	16.35	9.55	-4.31	21.59	30.00
			H	12.37	9.56	-4.31	17.62	30.00
	1753.5	20385	V	17.04	9.62	-4.34	22.32	30.00
			H	23.01	9.62	-4.34	28.3	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	17.3	9.48	-4.31	22.47	30.00
			H	22.54	9.48	-4.31	27.71	30.00
	1732.5	20175	V	16.61	9.54	-4.31	21.84	30.00
			H	22.77	9.54	-4.31	28	30.00
	1752.5	20375	V	17.65	9.61	-4.33	22.92	30.00
			H	23.31	9.61	-4.33	28.59	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	17.55	9.48	-4.31	22.73	30.00
			H	22.58	9.49	-4.31	27.76	30.00
	1732.5	20175	V	16.33	9.55	-4.31	21.58	30.00
			H	22.42	9.55	-4.31	27.66	30.00
	1752.5	20375	V	17.09	9.62	-4.34	22.37	30.00
			H	22.95	9.62	-4.34	28.23	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	17.23	9.48	-4.31	22.4	30.00
			H	22.49	9.48	-4.31	27.66	30.00
	1732.5	20175	V	16.66	9.54	-4.31	21.89	30.00
			H	22.75	9.55	-4.31	27.99	30.00
	1752.5	20375	V	17.4	9.61	-4.33	22.68	30.00
			H	23.17	9.62	-4.33	28.46	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	17.66	9.49	-4.31	22.84	30.00
			H	22.84	9.5	-4.31	28.03	30.00
	1732.5	20175	V	16.39	9.57	-4.31	21.65	30.00
			H	22.56	9.55	-4.31	27.81	30.00
	1752.5	20375	V	17.27	9.62	-4.34	22.56	30.00
			H	23.09	9.62	-4.34	28.37	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: 10M QPSK RB: 1,0	1715.0	20000	V	17.27	9.48	-4.31	22.44	30.00
			H	22.45	9.48	-4.31	27.62	30.00
	1732.5	20175	V	16.55	9.54	-4.31	21.79	30.00
			H	22.65	9.54	-4.31	27.88	30.00
	1750.0	20350	V	16.82	9.6	-4.33	22.1	30.00
			H	22.65	9.6	-4.32	27.93	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	17.73	9.5	-4.31	22.93	30.00
			H	22.86	9.5	-4.31	28.05	30.00
	1732.5	20175	V	16.27	9.56	-4.31	21.52	30.00
			H	22.33	9.56	-4.31	27.58	30.00
	1750.0	20350	V	17.08	9.62	-4.34	22.36	30.00
			H	23.1	9.62	-4.34	28.39	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	17.28	9.48	-4.31	22.45	30.00
			H	22.48	9.48	-4.31	27.65	30.00
	1732.5	20175	V	16.68	9.54	-4.31	21.91	30.00
			H	22.79	9.54	-4.31	28.02	30.00
	1750.0	20350	V	16.89	9.6	-4.33	22.17	30.00
			H	22.7	9.6	-4.33	27.98	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	17.85	9.5	-4.31	23.04	30.00
			H	23	9.5	-4.31	28.19	30.00
	1732.5	20175	V	16.31	9.56	-4.31	21.57	30.00
			H	22.23	9.56	-4.31	27.48	30.00
	1750.0	20350	V	17.18	9.62	-4.34	22.47	30.00
			H	23.12	9.62	-4.34	28.41	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	dBi	dB	dBm	dBm
BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	17.65	9.47	-4.31	22.82	30.00
			H	22.56	9.48	-4.31	27.73	30.00
	1732.5	20175	V	17.34	9.53	-4.31	22.56	30.00
			H	22.9	9.54	-4.31	28.12	30.00
	1747.5	20325	V	16.6	9.59	-4.32	21.87	30.00
			H	22.42	9.59	-4.32	27.69	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	17.45	9.52	-4.31	22.65	30.00
			H	22.84	9.52	-4.31	28.05	30.00
	1732.5	20175	V	16.41	9.57	-4.31	21.67	30.00
			H	22.34	9.57	-4.31	27.6	30.00
	1747.5	20325	V	17.01	9.62	-4.34	22.29	30.00
			H	23.18	9.62	-4.34	28.46	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	17.44	9.48	-4.31	22.61	30.00
			H	22.58	9.48	-4.31	27.75	30.00
	1732.5	20175	V	17.27	9.54	-4.31	22.5	30.00
			H	23.03	9.53	-4.31	28.26	30.00
	1747.5	20325	V	16.7	9.59	-4.32	21.97	30.00
			H	22.44	9.59	-4.32	27.71	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	17.49	9.52	-4.31	22.69	30.00
			H	22.94	9.52	-4.31	28.15	30.00
	1732.5	20175	V	16.58	9.57	-4.31	21.84	30.00
			H	22.44	9.57	-4.31	27.7	30.00
	1747.5	20325	V	17.28	9.62	-4.34	22.56	30.00
			H	23.27	9.62	-4.34	28.55	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: 20M QPSK RB: 1,0	1720.0	20050	V	17.74	9.47	-4.31	22.91	30.00
			H	22.88	9.47	-4.31	28.05	30.00
	1732.5	20175	V	17.58	9.53	-4.31	22.8	30.00
			H	23.26	9.53	-4.31	28.48	30.00
	1745.0	20300	V	16.7	9.56	-4.31	21.95	30.00
			H	22.64	9.56	-4.31	27.89	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	16.78	9.53	-4.31	22.01	30.00
			H	22.88	9.54	-4.31	28.11	30.00
	1732.5	20175	V	16.59	9.58	-4.31	21.86	30.00
			H	22.5	9.58	-4.31	27.76	30.00
	1745.0	20300	V	17.33	9.62	-4.34	22.62	30.00
			H	23.3	9.62	-4.34	28.58	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	17.6	9.47	-4.31	22.77	30.00
			H	22.83	9.47	-4.31	27.99	30.00
	1732.5	20175	V	17.62	9.52	-4.31	22.83	30.00
			H	23.18	9.53	-4.31	28.4	30.00
	1745.0	20300	V	16.71	9.57	-4.31	21.97	30.00
			H	22.54	9.57	-4.31	27.8	30.00
BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	16.81	9.54	-4.31	22.04	30.00
			H	22.96	9.54	-4.31	28.18	30.00
	1732.5	20175	V	16.78	9.58	-4.31	22.04	30.00
			H	22.53	9.58	-4.31	27.8	30.00
	1745.0	20300	V	17.6	9.62	-4.34	22.89	30.00
			H	23.35	9.62	-4.34	28.63	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	19.06	3.3	-2.93	19.43	38.45
			H	15.77	3.3	-2.93	16.14	38.45
	836.5	20525	V	19.56	3.29	-2.96	19.9	38.45
			H	15.76	3.29	-2.96	16.09	38.45
	848.3	20643	V	19.17	3.27	-3	19.44	38.45
			H	16.49	3.27	-3	16.76	38.45
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	19.14	3.31	-2.92	19.52	38.45
			H	15.62	3.3	-2.93	15.99	38.45
	836.5	20525	V	19.43	3.29	-2.96	19.76	38.45
			H	15.77	3.29	-2.96	16.1	38.45
	848.3	20643	V	19.2	3.27	-3	19.47	38.45
			H	16.5	3.27	-3	16.77	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	20.24	3.3	-2.93	20.61	38.45
			H	16.79	3.3	-2.93	17.17	38.45
	836.5	20525	V	20.76	3.29	-2.96	21.09	38.45
			H	16.63	3.29	-2.96	16.97	38.45
	848.3	20643	V	20.43	3.27	-3	20.7	38.45
			H	17.18	3.27	-2.99	17.46	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	20.14	3.3	-2.93	20.51	38.45
			H	16.86	3.3	-2.93	17.23	38.45
	836.5	20525	V	20.72	3.29	-2.96	21.05	38.45
			H	16.72	3.29	-2.96	17.05	38.45
	848.3	20643	V	20.44	3.27	-3	20.71	38.45
			H	17.22	3.27	-3	17.49	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	18.68	3.3	-2.93	19.05	38.45
			H	15.67	3.3	-2.93	16.04	38.45
	836.5	20525	V	19.11	3.29	-2.95	19.45	38.45
			H	15.61	3.29	-2.95	15.95	38.45
	847.5	20635	V	19.15	3.27	-3	19.42	38.45
			H	21.89	3.27	-3	22.17	38.45
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	19.07	3.3	-2.93	19.45	38.45
			H	15.8	3.3	-2.93	16.17	38.45
	836.5	20525	V	19.08	3.29	-2.96	19.4	38.45
			H	15.77	3.29	-2.96	16.1	38.45
	847.5	20635	V	19.09	3.27	-3	19.35	38.45
			H	21.32	3.27	-3	21.59	38.45
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	18.99	3.3	-2.93	19.36	38.45
			H	16.68	3.3	-2.93	17.06	38.45
	836.5	20525	V	19	3.29	-2.96	19.33	38.45
			H	16.05	3.29	-2.96	16.37	38.45
	847.5	20635	V	20.55	3.27	-3	20.82	38.45
			H	22.69	3.27	-3	22.97	38.45
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	19.12	3.3	-2.93	19.5	38.45
			H	16.34	3.3	-2.93	16.72	38.45
	836.5	20525	V	18.94	3.29	-2.96	19.26	38.45
			H	16.34	3.28	-2.97	16.65	38.45
	847.5	20635	V	19.98	3.27	-3	20.24	38.45
			H	21.46	3.27	-3	21.72	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	17.9	3.3	-2.93	18.27	38.45
			H	15.54	3.3	-2.93	15.92	38.45
	836.5	20525	V	17.86	3.29	-2.95	18.2	38.45
			H	15.26	3.29	-2.95	15.6	38.45
	846.5	20625	V	18.42	3.28	-2.98	18.71	38.45
			H	15.52	3.28	-2.98	15.81	38.45
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	17.85	3.3	-2.93	18.22	38.45
			H	15.41	3.3	-2.93	15.78	38.45
	836.5	20525	V	17.49	3.29	-2.97	17.81	38.45
			H	15.36	3.29	-2.97	15.68	38.45
	846.5	20625	V	18.4	3.27	-3	18.67	38.45
			H	15.22	3.27	-3	15.49	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	19.1	3.3	-2.93	19.48	38.45
			H	16.49	3.3	-2.93	16.87	38.45
	836.5	20525	V	19.26	3.29	-2.95	19.6	38.45
			H	15.91	3.29	-2.96	16.24	38.45
	846.5	20625	V	19.6	3.28	-2.98	19.89	38.45
			H	16.74	3.28	-2.98	17.04	38.45
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	19.5	3.3	-2.93	19.87	38.45
			H	15.94	3.3	-2.93	16.31	38.45
	836.5	20525	V	19.33	3.29	-2.97	19.65	38.45
			H	16.43	3.29	-2.96	16.76	38.45
	846.5	20625	V	19.93	3.27	-3	20.21	38.45
			H	16.72	3.27	-3	16.99	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: 10M QPSK RB: 1,0	829.0	20450	V	17.59	3.3	-2.93	17.96	38.45
			H	15.42	3.3	-2.93	15.79	38.45
	836.5	20525	V	17.32	3.29	-2.96	17.66	38.45
			H	13.86	3.3	-2.94	14.21	38.45
	844.0	20600	V	17.28	3.28	-2.98	17.58	38.45
			H	15.46	3.28	-2.98	15.76	38.45
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	17.36	3.29	-2.95	17.71	38.45
			H	14.77	3.29	-2.96	15.11	38.45
	836.5	20525	V	18.06	3.28	-2.98	18.36	38.45
			H	15.44	3.28	-2.98	15.73	38.45
	844.0	20600	V	18.13	3.27	-3	18.41	38.45
			H	14.94	3.27	-3	15.21	38.45
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	18.99	3.3	-2.93	19.37	38.45
			H	16.24	3.3	-2.93	16.62	38.45
	836.5	20525	V	19	3.3	-2.94	19.35	38.45
			H	15.91	3.29	-2.95	16.25	38.45
	844.0	20600	V	18.86	3.28	-2.98	19.16	38.45
			H	16.15	3.28	-2.97	16.46	38.45
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	18.84	3.29	-2.95	19.18	38.45
			H	15.46	3.29	-2.96	15.79	38.45
	836.5	20525	V	18.52	3.28	-2.98	18.81	38.45
			H	15.75	3.28	-2.98	16.05	38.45
	844.0	20600	V	19.56	3.27	-3	19.84	38.45
			H	16.31	3.27	-3	16.57	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	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	19.13	10.9	-5.26	24.78	33.01
			H	19.38	10.9	-5.25	25.03	33.01
	2535.0	21100	V	19.19	10.94	-5.3	24.83	33.01
			H	20.01	10.94	-5.3	25.65	33.01
	2567.5	21425	V	18.63	10.98	-5.34	24.27	33.01
			H	18.64	10.98	-5.34	24.28	33.01
BAND 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	17.9	10.9	-5.26	23.55	33.01
			H	18.66	10.9	-5.26	24.31	33.01
	2535.0	21100	V	18.91	10.95	-5.31	24.54	33.01
			H	19.72	10.95	-5.31	25.36	33.01
	2567.5	21425	V	18.44	10.99	-5.34	24.09	33.01
			H	18.21	10.99	-5.34	23.85	33.01
BAND 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	18.19	10.9	-5.25	23.84	33.01
			H	18.64	10.9	-5.25	24.28	33.01
	2535.0	21100	V	19.04	10.94	-5.3	24.68	33.01
			H	19.92	10.94	-5.3	25.56	33.01
	2567.5	21425	V	18.63	10.99	-5.34	24.27	33.01
			H	18.76	10.98	-5.34	24.41	33.01
BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	17.94	10.9	-5.26	23.58	33.01
			H	18.69	10.9	-5.26	24.33	33.01
	2535.0	21100	V	19.01	10.95	-5.31	24.65	33.01
			H	19.86	10.95	-5.31	25.49	33.01
	2567.5	21425	V	18.53	10.99	-5.34	24.17	33.01
			H	18.32	10.99	-5.34	23.97	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	19.35	10.9	-5.25	25	33.01
			H	18.95	10.9	-5.25	24.59	33.01
	2535.0	21100	V	18.59	10.94	-5.3	24.23	33.01
			H	18.82	10.94	-5.29	24.47	33.01
	2565.0	21400	V	17.01	10.98	-5.34	22.65	33.01
			H	17.66	10.98	-5.34	23.3	33.01
BAND 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	19.04	10.91	-5.26	24.69	33.01
			H	19.54	10.91	-5.26	25.19	33.01
	2535.0	21100	V	17.97	10.95	-5.31	23.6	33.01
			H	19.06	10.95	-5.31	24.69	33.01
	2565.0	21400	V	16.4	10.99	-5.34	22.05	33.01
			H	17.49	10.99	-5.34	23.14	33.01
BAND 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	19.31	10.9	-5.26	24.96	33.01
			H	18.99	10.9	-5.26	24.63	33.01
	2535.0	21100	V	18.69	10.94	-5.3	24.33	33.01
			H	18.83	10.94	-5.3	24.47	33.01
	2565.0	21400	V	17	10.98	-5.34	22.64	33.01
			H	17.73	10.98	-5.34	23.37	33.01
BAND 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	19.04	10.91	-5.26	24.68	33.01
			H	19.47	10.91	-5.26	25.12	33.01
	2535.0	21100	V	17.94	10.95	-5.31	23.57	33.01
			H	19.07	10.95	-5.31	24.71	33.01
	2565.0	21400	V	16.42	10.99	-5.34	22.07	33.01
			H	17.62	10.99	-5.34	23.27	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	19.41	10.9	-5.26	25.06	33.01
			H	19.06	10.9	-5.26	24.71	33.01
	2535.0	21100	V	18.45	10.94	-5.29	24.1	33.01
			H	18.78	10.94	-5.29	24.43	33.01
	2562.5	21375	V	17.01	10.97	-5.34	22.64	33.01
			H	18.26	10.97	-5.34	23.89	33.01
BAND 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	19.13	10.92	-5.27	24.78	33.01
			H	19.56	10.92	-5.27	25.21	33.01
	2535.0	21100	V	17.99	10.95	-5.32	23.62	33.01
			H	19.17	10.95	-5.32	24.8	33.01
	2562.5	21375	V	16.29	10.99	-5.34	21.93	33.01
			H	17.46	10.99	-5.34	23.11	33.01
BAND 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	19.37	10.9	-5.26	25.02	33.01
			H	19.14	10.9	-5.26	24.79	33.01
	2535.0	21100	V	18.58	10.94	-5.29	24.23	33.01
			H	18.91	10.94	-5.29	24.56	33.01
	2562.5	21375	V	17.39	10.97	-5.34	23.02	33.01
			H	18.49	10.97	-5.34	24.12	33.01
BAND 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	19.31	10.92	-5.27	24.96	33.01
			H	19.65	10.92	-5.27	25.3	33.01
	2535.0	21100	V	18.19	10.95	-5.32	23.83	33.01
			H	19.25	10.96	-5.32	24.88	33.01
	2562.5	21375	V	16.66	10.99	-5.34	22.31	33.01
			H	17.63	10.99	-5.34	23.28	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	19.26	10.9	-5.26	24.91	33.01
			H	18.98	10.9	-5.26	24.63	33.01
	2535.0	21100	V	18.18	10.93	-5.29	23.82	33.01
			H	18.54	10.93	-5.29	24.19	33.01
	2560.0	21350	V	17.6	10.96	-5.33	23.23	33.01
			H	18.63	10.96	-5.33	24.26	33.01
BAND 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	18.56	10.92	-5.27	24.21	33.01
			H	18.71	10.92	-5.27	24.36	33.01
	2535.0	21100	V	18.04	10.96	-5.32	23.67	33.01
			H	19	10.96	-5.32	24.63	33.01
	2560.0	21350	V	16.57	10.99	-5.34	22.21	33.01
			H	17.39	10.99	-5.34	23.04	33.01
BAND 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	19.32	10.9	-5.26	24.96	33.01
			H	19.04	10.9	-5.26	24.69	33.01
	2535.0	21100	V	18.33	10.94	-5.29	23.97	33.01
			H	18.69	10.93	-5.29	24.33	33.01
	2560.0	21350	V	17.85	10.96	-5.33	23.48	33.01
			H	18.85	10.96	-5.33	24.48	33.01
BAND 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	18.77	10.92	-5.27	24.42	33.01
			H	18.97	10.92	-5.27	24.62	33.01
	2535.0	21100	V	18.18	10.96	-5.32	23.82	33.01
			H	19.24	10.96	-5.32	24.87	33.01
	2560.0	21350	V	16.6	10.99	-5.34	22.25	33.01
			H	17.48	10.99	-5.34	23.13	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	15	3.08	-2.96	15.13	34.77
			H	13.27	3.08	-2.96	13.4	34.77
	707.5	23095	V	15.04	3.09	-3.04	15.1	34.77
			H	14.24	3.09	-3.04	14.29	34.77
	715.3	23173	V	14.68	3.11	-3.06	14.73	34.77
			H	14.49	3.11	-3.06	14.54	34.77
BAND 12 BW: 1.4M QPSK RB: 1,5	699.7	23017	V	15.51	3.08	-2.96	15.63	34.77
			H	13.87	3.08	-2.96	13.99	34.77
	707.5	23095	V	14.68	3.09	-3.04	14.73	34.77
			H	13.96	3.09	-3.04	14.01	34.77
	715.3	23173	V	14.08	3.11	-3.06	14.13	34.77
			H	14.13	3.11	-3.06	14.18	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,0	699.7	23017	V	15.1	3.08	-2.96	15.22	34.77
			H	13.35	3.08	-2.99	13.44	34.77
	707.5	23095	V	15.09	3.09	-3.04	15.14	34.77
			H	14.32	3.09	-3.04	14.38	34.77
	715.3	23173	V	14.72	3.11	-3.06	14.77	34.77
			H	14.66	3.11	-3.06	14.71	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,5	699.7	23017	V	15.52	3.08	-2.96	15.65	34.77
			H	13.86	3.08	-2.96	13.99	34.77
	707.5	23095	V	14.84	3.1	-3.04	14.9	34.77
			H	14.04	3.09	-3.04	14.1	34.77
	715.3	23173	V	14.29	3.11	-3.06	14.34	34.77
			H	14.3	3.11	-3.06	14.35	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: 3M QPSK RB: 1,0	700.5	23025	V	14.92	3.08	-2.96	15.05	34.77
			H	13.24	3.08	-2.96	13.36	34.77
	707.5	23095	V	15.23	3.09	-3.04	15.28	34.77
			H	15.72	3.09	-3.03	15.78	34.77
	714.5	23165	V	15.15	3.11	-3.06	15.2	34.77
			H	14.52	3.11	-3.07	14.57	34.77
BAND 12 BW: 3M QPSK RB: 1,14	700.5	23025	V	15.5	3.08	-2.98	15.6	34.77
			H	13.99	3.08	-2.98	14.1	34.77
	707.5	23095	V	14.77	3.1	-3.04	14.83	34.77
			H	13.76	3.1	-3.04	13.82	34.77
	714.5	23165	V	14.41	3.11	-3.06	14.46	34.77
			H	13.94	3.11	-3.06	13.98	34.77
BAND 12 BW: 3M 16QAM RB: 1,0	700.5	23025	V	14.87	3.08	-2.96	14.99	34.77
			H	13.17	3.08	-2.96	13.29	34.77
	707.5	23095	V	15.28	3.09	-3.04	15.34	34.77
			H	14.11	3.09	-3.04	14.17	34.77
	714.5	23165	V	15.18	3.11	-3.06	15.23	34.77
			H	14.54	3.11	-3.07	14.59	34.77
BAND 12 BW: 3M 16QAM RB: 1,14	700.5	23025	V	15.57	3.08	-2.98	15.68	34.77
			H	14.07	3.08	-2.98	14.18	34.77
	707.5	23095	V	14.76	3.1	-3.04	14.82	34.77
			H	13.8	3.1	-3.04	13.85	34.77
	714.5	23165	V	14.46	3.11	-3.06	14.51	34.77
			H	13.99	3.11	-3.06	14.04	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	15.01	3.08	-2.96	15.13	34.77
			H	13.52	3.08	-2.98	13.62	34.77
	707.5	23095	V	14.98	3.1	-3.04	15.04	34.77
			H	14.29	3.09	-3.03	14.35	34.77
	713.5	23155	V	14.78	3.1	-3.05	14.83	34.77
			H	14.16	3.11	-3.06	14.21	34.77
BAND 12 BW: 5M QPSK RB: 1,24	701.5	23035	V	15.47	3.09	-3.02	15.54	34.77
			H	14.35	3.09	-3.01	14.42	34.77
	707.5	23095	V	14.64	3.1	-3.05	14.69	34.77
			H	13.89	3.1	-3.05	13.94	34.77
	713.5	23155	V	14.3	3.11	-3.06	14.34	34.77
			H	14.17	3.11	-3.06	14.22	34.77
BAND 12 BW: 5M 16QAM RB: 1,0	701.5	23035	V	14.97	3.08	-2.96	15.09	34.77
			H	13.47	3.08	-2.99	13.56	34.77
	707.5	23095	V	15.45	3.09	-3.03	15.51	34.77
			H	14.57	3.09	-3.03	14.63	34.77
	713.5	23155	V	14.86	3.1	-3.05	14.91	34.77
			H	14.34	3.11	-3.06	14.39	34.77
BAND 12 BW: 5M 16QAM RB: 1,24	701.5	23035	V	15.76	3.09	-3.02	15.83	34.77
			H	14.59	3.09	-3.02	14.66	34.77
	707.5	23095	V	14.79	3.1	-3.05	14.84	34.77
			H	14.03	3.1	-3.04	14.08	34.77
	713.5	23155	V	14.49	3.11	-3.06	14.54	34.77
			H	14.43	3.11	-3.06	14.47	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	15.05	3.08	-2.96	15.17	34.77
			H	13.5	3.08	-2.96	13.62	34.77
	707.5	23095	V	15.26	3.09	-3.01	15.34	34.77
			H	14.07	3.08	-3	14.15	34.77
	711.0	23130	V	14.94	3.09	-3.04	14.99	34.77
			H	14.07	3.09	-3.04	14.12	34.77
BAND 12 BW: 10M QPSK RB: 1,49	704.0	23060	V	14.55	3.1	-3.04	14.6	34.77
			H	13.9	3.1	-3.04	13.95	34.77
	707.5	23095	V	14.52	3.1	-3.05	14.57	34.77
			H	14.14	3.11	-3.06	14.19	34.77
	711.0	23130	V	14.25	3.11	-3.06	14.29	34.77
			H	14.19	3.11	-3.06	14.23	34.77
BAND 12 BW: 10M 16QAM RB: 1,0	704.0	23060	V	14.96	3.08	-2.96	15.09	34.77
			H	13.55	3.08	-2.96	13.67	34.77
	707.5	23095	V	15.37	3.08	-3	15.46	34.77
			H	14.24	3.09	-3.01	14.32	34.77
	711.0	23130	V	14.96	3.09	-3.04	15.01	34.77
			H	14.17	3.09	-3.04	14.23	34.77
BAND 12 BW: 10M 16QAM RB: 1,49	704.0	23060	V	14.61	3.1	-3.04	14.67	34.77
			H	13.9	3.1	-3.04	13.96	34.77
	707.5	23095	V	14.63	3.1	-3.05	14.68	34.77
			H	14.2	3.11	-3.06	14.25	34.77
	711.0	23130	V	14.36	3.11	-3.06	14.4	34.77
			H	14.24	3.11	-3.06	14.29	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	13.47	3.27	-2.91	13.83	34.77
			H	14.22	3.28	-2.91	14.58	34.77
	782.0	23230	V	13.68	3.27	-2.91	14.04	34.77
			H	14.54	3.28	-2.91	14.92	34.77
	784.5	23255	V	14.12	3.29	-2.91	14.51	34.77
			H	15.42	3.29	-2.91	15.80	34.77
BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	13.92	3.28	-2.91	14.29	34.77
			H	15.09	3.29	-2.91	15.47	34.77
	782.0	23230	V	14.03	3.29	-2.91	14.41	34.77
			H	15.47	3.30	-2.91	15.86	34.77
	784.5	23255	V	14.02	3.30	-2.91	14.41	34.77
			H	15.64	3.30	-2.91	16.03	34.77
BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	13.71	3.27	-2.91	14.07	34.77
			H	14.31	3.28	-2.91	14.67	34.77
	782.0	23230	V	13.76	3.27	-2.91	14.12	34.77
			H	14.69	3.28	-2.91	15.07	34.77
	784.5	23255	V	14.14	3.29	-2.91	14.53	34.77
			H	15.65	3.29	-2.91	16.04	34.77
BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	14.08	3.28	-2.91	14.45	34.77
			H	15.23	3.29	-2.91	15.62	34.77
	782.0	23230	V	14.18	3.29	-2.91	14.56	34.77
			H	15.57	3.30	-2.91	15.96	34.77
	784.5	23255	V	14.10	3.30	-2.91	14.49	34.77
			H	15.59	3.30	-2.91	15.98	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	14.17	3.27	-2.91	14.53	34.77
			H	14.40	3.27	-2.91	14.75	34.77
BAND 13 BW: 10M QPSK RB: 1,49	782.0	23230	V	14.00	3.30	-2.91	14.39	34.77
			H	15.34	3.29	-2.91	15.73	34.77
BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	13.92	3.27	-2.91	14.28	34.77
			H	14.35	3.28	-2.91	14.72	34.77
BAND 13 BW: 10M 16QAM RB: 1,49	782.0	23230	V	14.03	3.29	-2.91	14.41	34.77
			H	15.39	3.30	-2.91	15.78	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	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 30 BW: 5M QPSK RB: 1,0	2307.5	27685	V	17.09	10.72	-5	22.81	34.77
			H	17.7	10.72	-5	23.41	34.77
	2310.0	27710	V	16.62	10.72	-5	22.34	34.77
			H	17.42	10.72	-5	23.13	34.77
	2312.5	27735	V	16.93	10.72	-5	22.65	34.77
			H	15.94	10.73	-5.01	21.66	34.77
BAND 30 BW: 5M QPSK RB: 1,24	2307.5	27685	V	17.08	10.72	-5	22.79	34.77
			H	16.88	10.72	-5	22.59	34.77
	2310.0	27710	V	16.83	10.72	-5	22.55	34.77
			H	16.23	10.72	-5	21.95	34.77
	2312.5	27735	V	16.18	10.72	-5	21.9	34.77
			H	14.96	10.73	-5.01	20.68	34.77
BAND 30 BW: 5M 16QAM RB: 1,0	2307.5	27685	V	16.04	10.72	-5	21.76	34.77
			H	17.04	10.72	-5	22.76	34.77
	2310.0	27710	V	15.79	10.72	-5	21.51	34.77
			H	15.74	10.72	-5	21.46	34.77
	2312.5	27735	V	15.4	10.72	-5	21.11	34.77
			H	15.36	10.73	-5.01	21.08	34.77
BAND 30 BW: 5M 16QAM RB: 1,24	2307.5	27685	V	16.07	10.72	-5	21.79	34.77
			H	17	10.72	-5	22.72	34.77
	2310.0	27710	V	16.86	10.72	-5	22.57	34.77
			H	15.52	10.72	-5	21.23	34.77
	2312.5	27735	V	15.68	10.72	-5	21.4	34.77
			H	15.32	10.73	-5.01	21.04	34.77

Remark :

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

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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 30 BW: 10M QPSK RB: 1,0	2310.0	27710	V	16.92	10.72	-5	22.64	34.77
			H	15.77	10.73	-5.01	21.49	34.77
BAND 30 BW: 10M QPSK RB: 1,49	2310.0	27710	V	16.83	10.72	-5	22.55	34.77
			H	15.99	10.73	-5.01	21.71	34.77
BAND 30 BW: 10M 16QAM RB: 1,0	2310.0	27710	V	16.14	10.72	-5	21.86	34.77
			H	15.72	10.73	-5.01	21.44	34.77
BAND 30 BW: 10M 16QAM RB: 1,49	2310.0	27710	V	16.26	10.72	-5	21.98	34.77
			H	15.96	10.73	-5.01	21.68	34.77

Remark :

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

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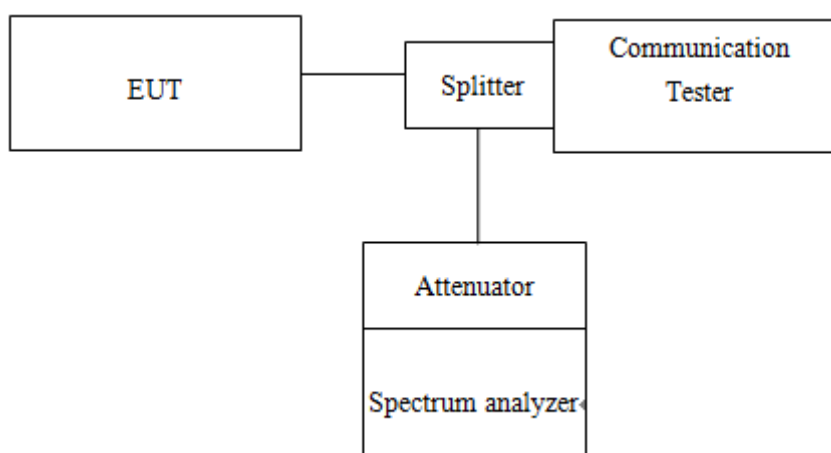
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8. OCCUPIED BANDWIDTH MEASUREMENT

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

99% &26dB Bandwidth with detector peak

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%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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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.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	2016/2/26	2017/2/25
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2015	05/16/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyser	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

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Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/08/2016	12/07/2017
Power Sensor	Anritsu	MA2411B	917032	12/08/2016	12/07/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/01/2017	12/31/2017
Coaxial Cable	HUBER+SUHNE R	SUCOFLEX 102	23670/2	01/01/2017	12/31/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/01/2017	12/31/2017
Splitter	Agilent	11636B	N/A	01/01/2017	12/31/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/04/2016	11/03/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/05/2016	05/04/2017
Radio Communication Analyser	Anritsu	MT8820C	6201465317	12/09/2016	12/08/2017

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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8.5. Measurement Result

99% Bandwidth

Frequency (MHz)	CH	99% Bandwidth (KHz)	99% Bandwidth (KHz)	99% Bandwidth (KHz)
		GSM 850	GPRS 850	EDGE 850
824.20	128	243.28	243.49	247.10
836.60	190	245.81	241.96	246.81
848.80	251	247.48	244.27	244.01

Frequency (MHz)	CH	99% Bandwidth (KHz)	99% Bandwidth (KHz)	99% Bandwidth (KHz)
		GSM 1900	GPRS 1900	EDGE 1900
1850.20	512	247.69	240.81	239.47
1880.00	661	244.26	240.66	247.19
1909.80	810	244.82	241.44	240.51

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		CDMA BC0	EVDO BC0
824.70	1013	1.2718	1.2710
836.52	384	1.2707	1.2712
848.31	777	1.2789	1.2729

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		CDMA BC1	EVDO BC1
1851.25	25	1.2766	1.2706
1880.00	600	1.2812	1.2790
1908.75	1175	1.2821	1.2729

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Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.1636	4.1377	4.1434
1880.00	9400	4.1430	4.1437	4.1485
1909.80	9538	4.1381	4.1431	4.1435

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA IV	HSDPA IV	HSUPA IV
1852.4	9262	4.1356	4.1523	4.1259
1880.0	9400	4.1351	4.1302	4.1301
1907.6	9538	4.1405	4.1325	4.1362

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.1307	4.1367	4.1290
836.60	4183	4.1246	4.1275	4.1321
846.60	4233	4.1147	4.1227	4.1222

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LTE BAND 2							
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
1850.7	18607	1.0994	1.0999	1851.5	18615	2.7139	2.7089
1880.0	18900	1.0996	1.0956	1880.0	18900	2.7115	2.6962
1909.3	19193	1.0936	1.0989	1908.5	19185	2.7079	2.7019

LTE BAND 2							
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
1852.5	18625	4.4964	4.5048	1855.0	18650	8.9686	8.9300
1880.0	18900	4.4967	4.5189	1880.0	18900	8.9872	8.9554
1907.5	19175	4.4898	4.5039	1905.0	19150	8.9704	8.9513

LTE BAND 2							
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
1857.5	18675	13.4347	13.4456	1860.0	18700	17.8881	17.9046
1880.0	18900	13.4463	13.4118	1880.0	18900	17.9353	17.9376
1902.5	19125	13.4571	13.4982	1900.0	19100	17.9380	17.9534

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LTE BAND 4							
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
1710.7	19957	1.1023	1.1020	1711.5	19965	2.7153	2.7038
1732.5	20175	1.0989	1.0988	1732.5	20175	2.7086	2.7058
1754.3	20393	1.1007	1.1027	1753.5	20385	2.7065	2.7018

LTE BAND 4							
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
1712.5	19957	4.5112	4.4977	1715.0	20000	8.9944	8.9808
1732.5	20175	4.5024	4.4971	1732.5	20175	8.9568	8.9613
1752.5	20375	4.4970	4.5052	1750.0	20350	8.9944	9.0170

LTE BAND 4							
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
1717.5	20025	13.5117	13.5077	1720.0	20050	17.9888	17.9289
1732.5	20175	13.4179	13.4141	1732.5	20175	17.8344	17.8747
1747.5	20325	13.4745	13.4776	1745.0	20300	17.9501	17.9506

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LTE BAND 5							
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
824.7	20407	1.1002	1.0994	825.5	20415	2.7078	2.7112
836.5	20525	1.0939	1.0950	836.5	20525	2.7158	2.7111
848.3	20643	1.0929	1.0968	847.5	20635	2.7068	2.7082

LTE BAND 5							
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
826.5	20425	4.5125	4.5011	829.0	20450	8.9899	8.9821
836.5	20525	4.4976	4.4957	836.5	20525	8.9431	8.9630
846.5	20625	4.5044	4.4890	844.0	20600	8.9701	8.9824

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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	4.5000	4.5082	2505.0	20800	8.9604	8.9483
2535.0	21100	4.4938	4.4908	2535.0	21100	8.9937	8.9692
2567.5	21425	4.5003	4.5181	2565.0	21400	8.9752	8.9691

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	13.4238	13.4449	2510.0	20850	17.8941	17.9104
2535.0	21100	13.4715	13.4912	2535.0	21100	17.9246	17.9530
2562.5	21375	13.4951	13.4608	2560.0	21350	17.9115	17.9478

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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	1.0899	1.0941	700.5	23025	2.6983	2.7002
707.5	23095	1.0933	1.0909	707.5	23095	2.7093	2.7118
715.3	23173	1.0977	1.0937	714.5	23165	2.7038	2.7133

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	4.4802	4.4857	704.0	23060	8.9956	8.9803
707.5	23095	4.4994	4.5055	707.5	23095	9.0212	9.0052
713.5	23155	4.5002	4.5032	711.0	23130	8.8985	8.8919

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LTE BAND 13							
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
779.5	23205	4.4899	4.4912	782.0	23230	8.9560	8.9317
782.0	23230	4.4772	4.4872				
784.5	23255	4.4958	4.4963				

LTE BAND 30							
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
2307.5	27685	4.4884	4.4904	2310.0	27710	8.9659	8.9380
2310.0	27710	4.5061	4.4926				
2312.5	27735	4.5049	4.4960				

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26dB Bandwidth

Frequency (MHz)	CH	26dB Band-width (KHz)	26dB Band-width (KHz)	26dB Band-width (KHz)
		GSM 850	GPRS 850	EDGE 850
824.20	128	315.1	311.3	316.8
836.60	190	313.5	308.3	314.9
848.80	251	316.0	320.7	314.9

Frequency (MHz)	CH	26dB Band-width (KHz)	26dB Band-width (KHz)	26dB Band-width (KHz)
		GSM 1900	GPRS 1900	EDGE 1900
1850.20	512	322.3	319.1	311.6
1880.00	661	315.7	309.9	321.8
1909.80	810	315.0	311.0	313.3

Frequency (MHz)	CH	26dB Band-width (MHz)	26dB Band-width (MHz)
		CDMA BC0	EVDO BC0
824.70	1013	1.412	1.406
836.52	384	1.410	1.412
848.31	777	1.413	1.411

Frequency (MHz)	CH	26dB Band-width (MHz)	26dB Band-width (MHz)
		CDMA BC1	EVDO BC1
1851.25	25	1.435	1.418
1880.00	600	1.426	1.423
1908.75	1175	1.435	1.422

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Frequency (MHz)	CH	26dB Band- width (MHz)	26dB Band- width (MHz)	26dB Band- width (MHz)
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.728	4.703	4.709
1880.00	9400	4.721	4.718	4.696
1909.80	9538	4.710	4.689	4.712

Frequency (MHz)	CH	26dB Band- width (MHz)	26dB Band- width (MHz)	26dB Band- width (MHz)
		WCDMA IV	HSDPA IV	HSUPA IV
1852.4	9262	4.726	4.693	4.702
1880.0	9400	4.700	4.705	4.668
1907.6	9538	4.682	4.690	4.700

Frequency (MHz)	CH	26dB Band- width (MHz)	26dB Band- width (MHz)	26dB Band- width (MHz)
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.657	4.716	4.671
836.60	4183	4.673	4.684	4.684
846.60	4233	4.664	4.672	4.663

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LTE BAND 2							
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
1850.7	18607	1.429	1.444	1851.5	18615	3.121	3.052
1880.0	18900	1.423	1.262	1880.0	18900	3.046	3.028
1909.3	19193	1.289	1.293	1908.5	19185	2.998	3.041

LTE BAND 2							
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
1852.5	18625	4.980	4.961	1855.0	18650	9.752	9.699
1880.0	18900	4.963	4.747	1880.0	18900	9.635	9.641
1907.5	19175	4.885	4.906	1905.0	19150	9.762	9.707

LTE BAND 2							
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
1857.5	18675	14.624	14.683	1860.0	18700	19.212	19.341
1880.0	18900	14.507	14.573	1880.0	18900	19.351	19.286
1902.5	19125	14.726	14.647	1900.0	19100	19.348	19.293

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LTE BAND 4							
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
1710.7	19957	1.317	1.429	1711.5	19965	3.033	3.013
1732.5	20175	1.253	1.235	1732.5	20175	2.983	2.993
1754.3	20393	1.393	1.440	1753.5	20385	2.997	2.998

LTE BAND 4							
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
1712.5	19957	4.960	4.941	1715.0	20000	9.787	9.765
1732.5	20175	4.932	4.956	1732.5	20175	9.678	9.772
1752.5	20375	4.944	4.976	1750.0	20350	9.630	9.826

LTE BAND 4							
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
1717.5	20025	14.726	14.683	1720.0	20050	19.505	19.482
1732.5	20175	14.482	14.583	1732.5	20175	19.218	19.340
1747.5	20325	14.534	14.560	1745.0	20300	19.304	19.404

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LTE BAND 5							
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
824.7	20407	1.259	1.249	825.5	20415	3.004	3.014
836.5	20525	1.235	1.243	836.5	20525	2.997	2.983
848.3	20643	1.260	1.245	847.5	20635	3.029	3.004

LTE BAND 5							
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
826.5	20425	5.002	4.920	829.0	20450	9.764	9.736
836.5	20525	4.949	4.910	836.5	20525	9.727	9.654
846.5	20625	4.983	4.882	844.0	20600	9.672	9.675

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	4.974	4.938	2505.0	20800	9.780	9.708
2535.0	21100	5.035	4.959	2535.0	21100	9.760	9.624
2567.5	21425	4.932	4.942	2565.0	21400	9.716	9.723

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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	14.583	14.819	2510.0	20850	19.314	19.453
2535.0	21100	14.678	14.384	2535.0	21100	19.408	19.146
2562.5	21375	14.622	14.588	2560.0	21350	19.075	19.349

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	1.238	1.231	700.5	23025	3.027	2.988
707.5	23095	1.238	1.228	707.5	23095	2.982	2.941
715.3	23173	1.227	1.238	714.5	23165	2.998	2.978

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	4.939	4.930	704.0	23060	9.820	9.763
707.5	23095	4.873	4.915	707.5	23095	9.615	9.742
713.5	23155	4.927	4.935	711.0	23130	9.621	9.596

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LTE BAND 13							
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
779.5	23205	4.963	4.959	782.0	23230	9.786	9.758
782.0	23230	4.954	4.916				
784.5	23255	4.991	4.975				

LTE BAND 30							
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
2307.5	27685	4.959	4.921	2310.0	27710	9.776	9.711
2310.0	27710	4.957	4.943				
2312.5	27735	4.954	4.961				

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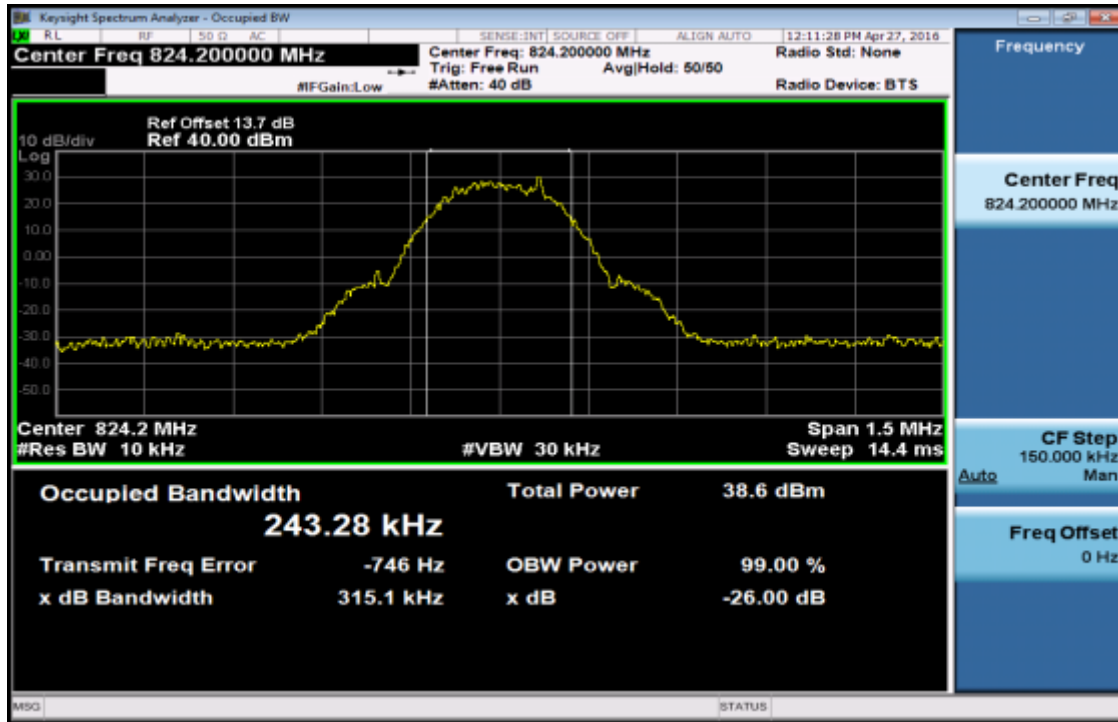
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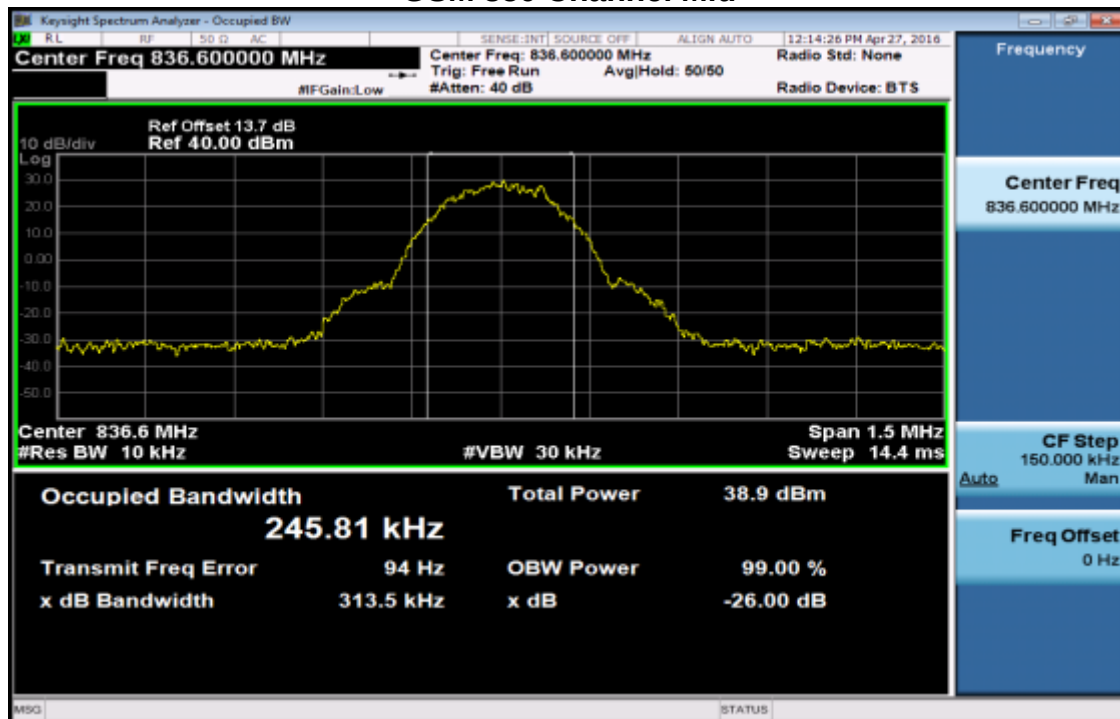
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99% & 26dB Bandwidth Test Data

GSM 850 Channel Low



GSM 850 Channel Mid



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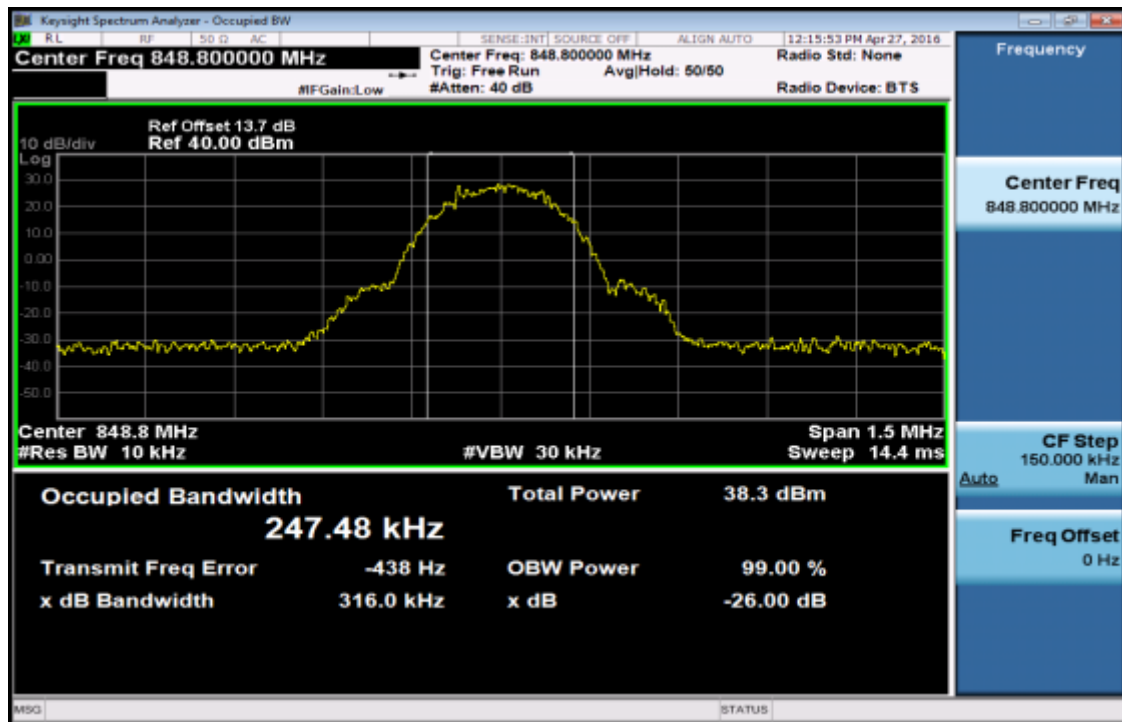
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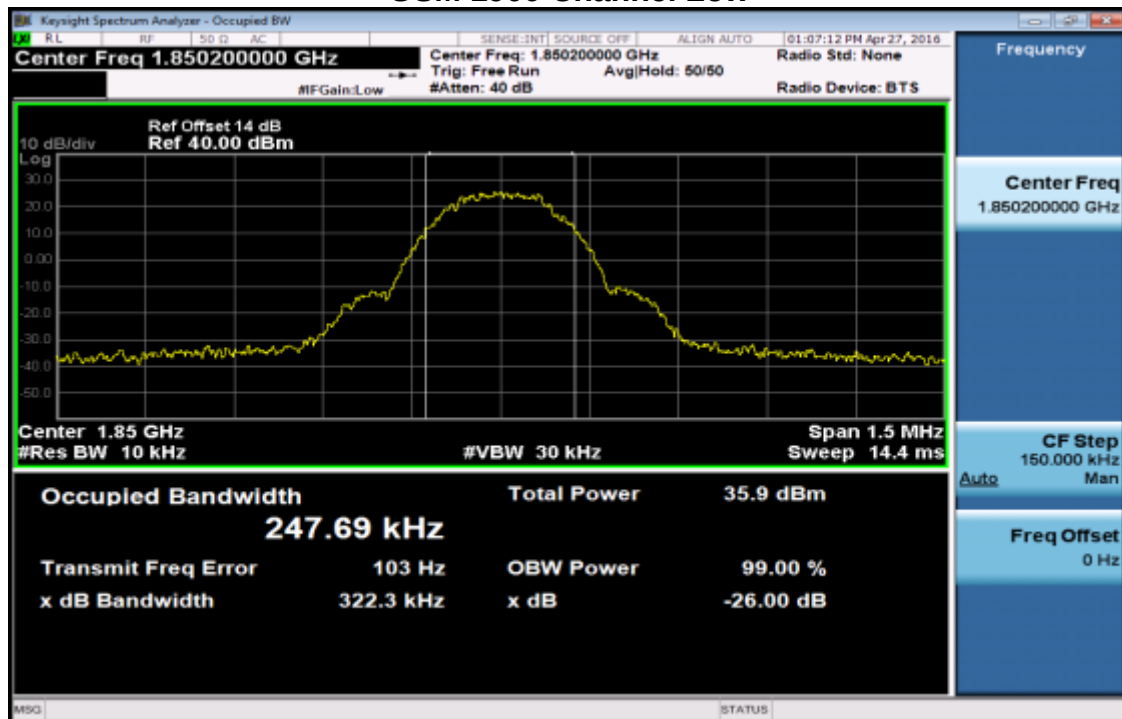
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GSM 850 Channel High



GSM 1900 Channel Low



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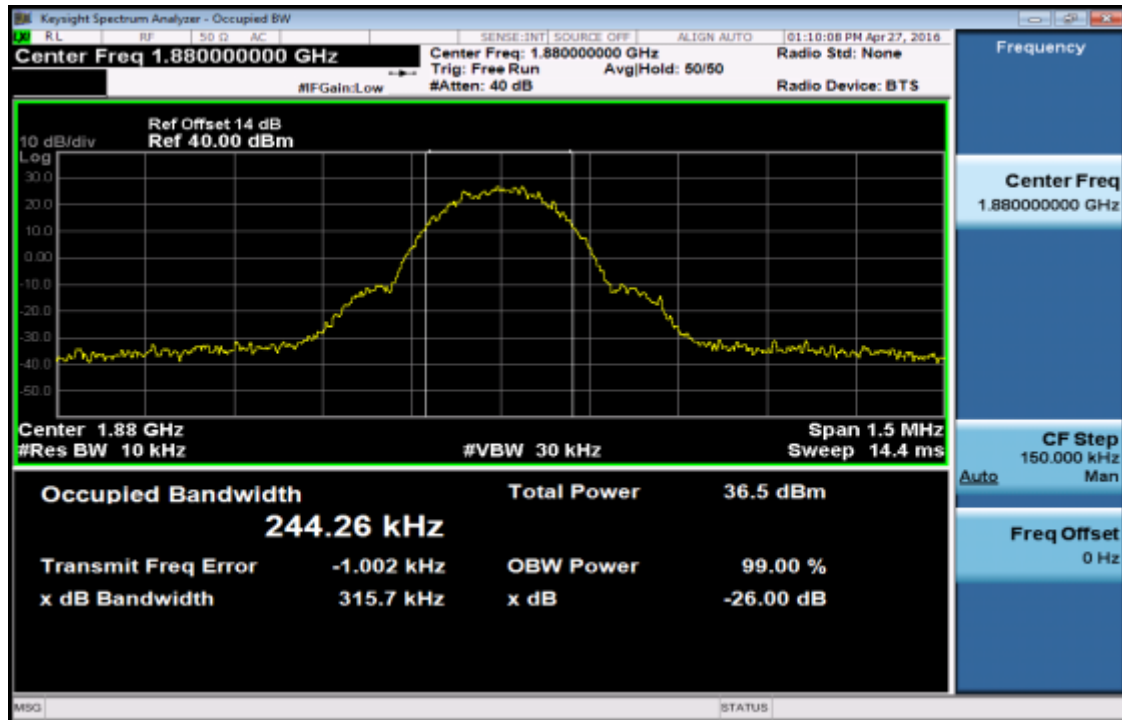
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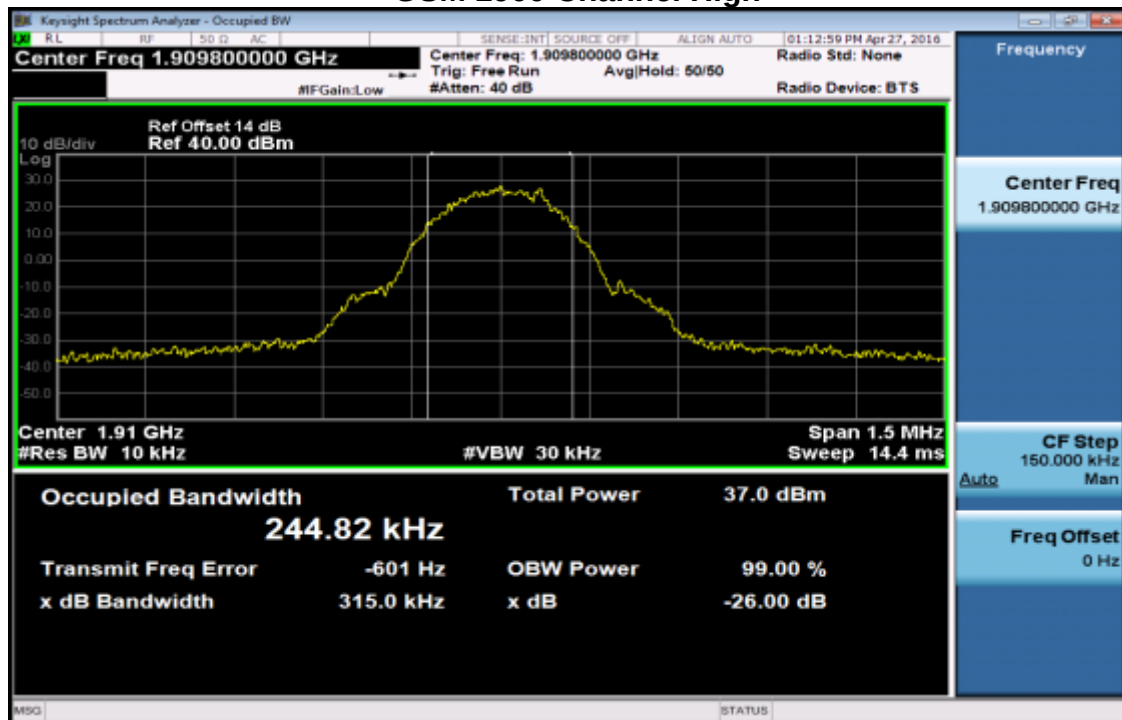
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GSM 1900 Channel Mid



GSM 1900 Channel High



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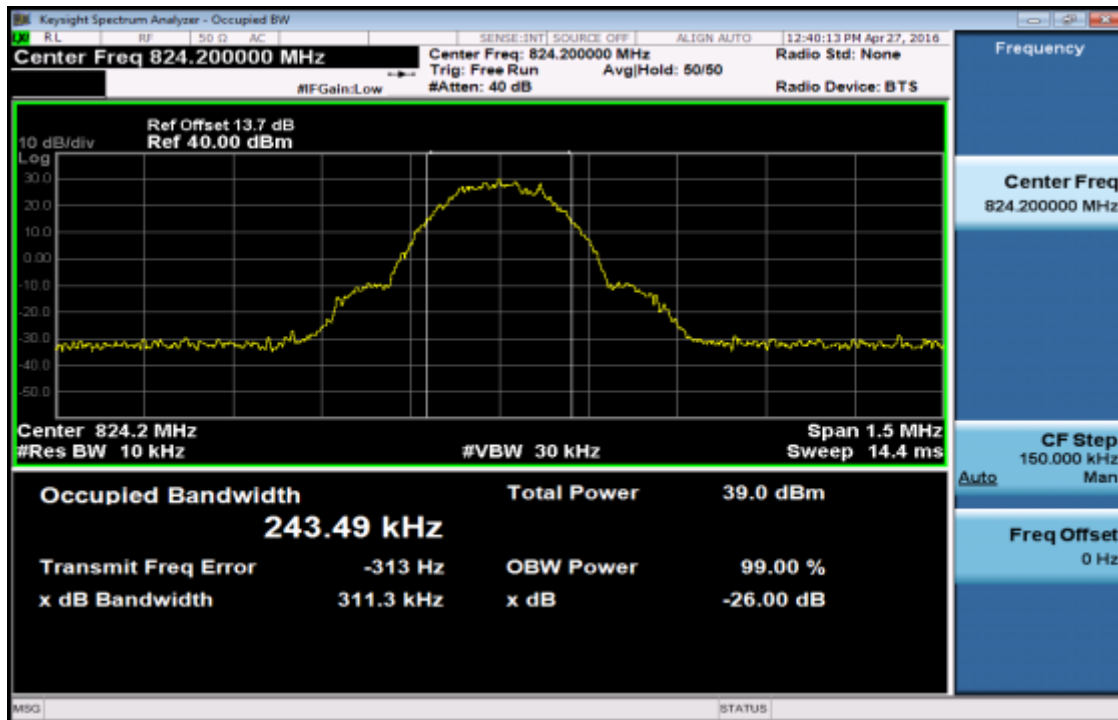
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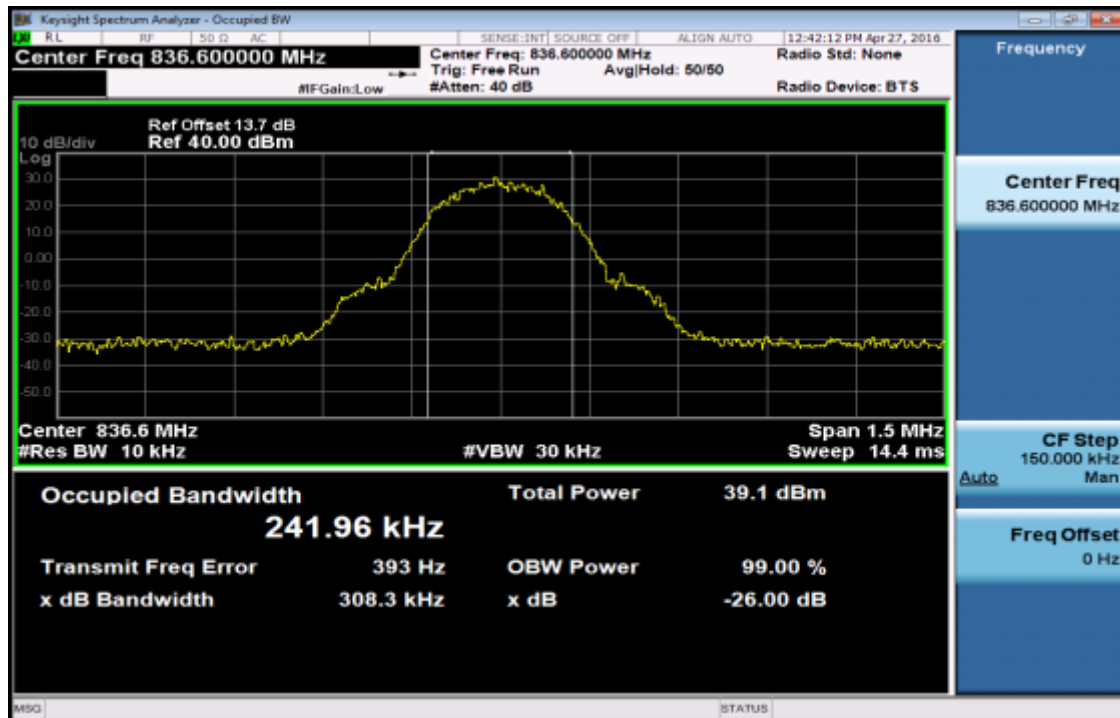
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Member of SGS Group

GPRS 850 Channel Low



GPRS 850 Channel Mid



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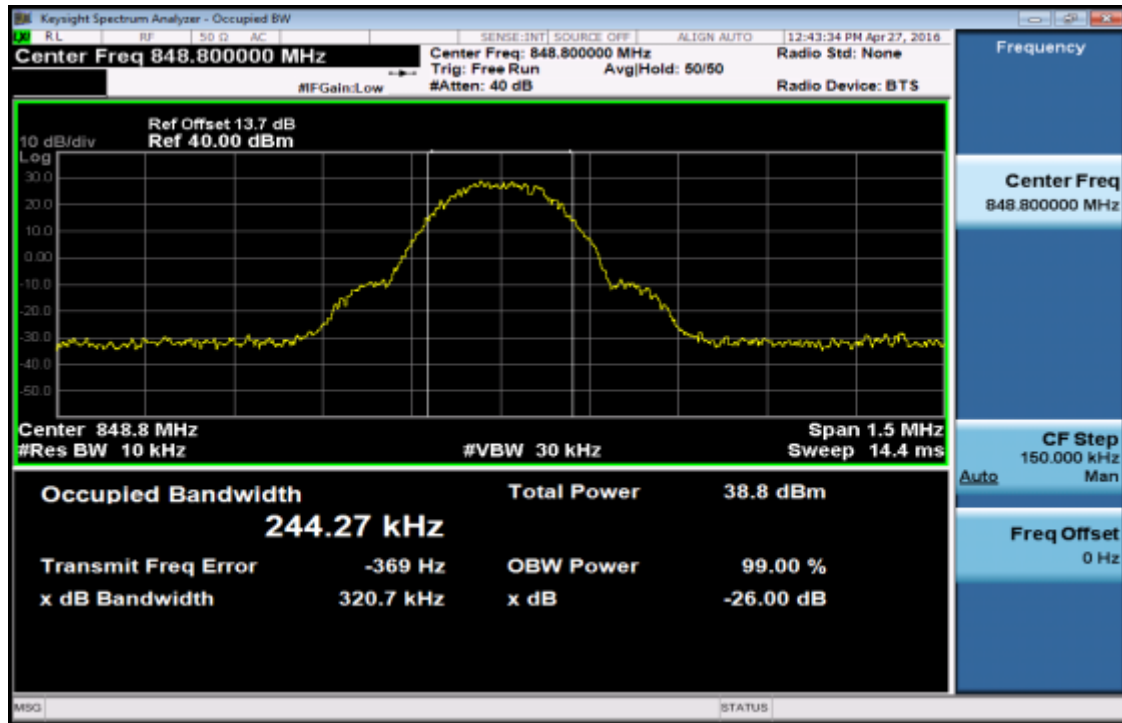
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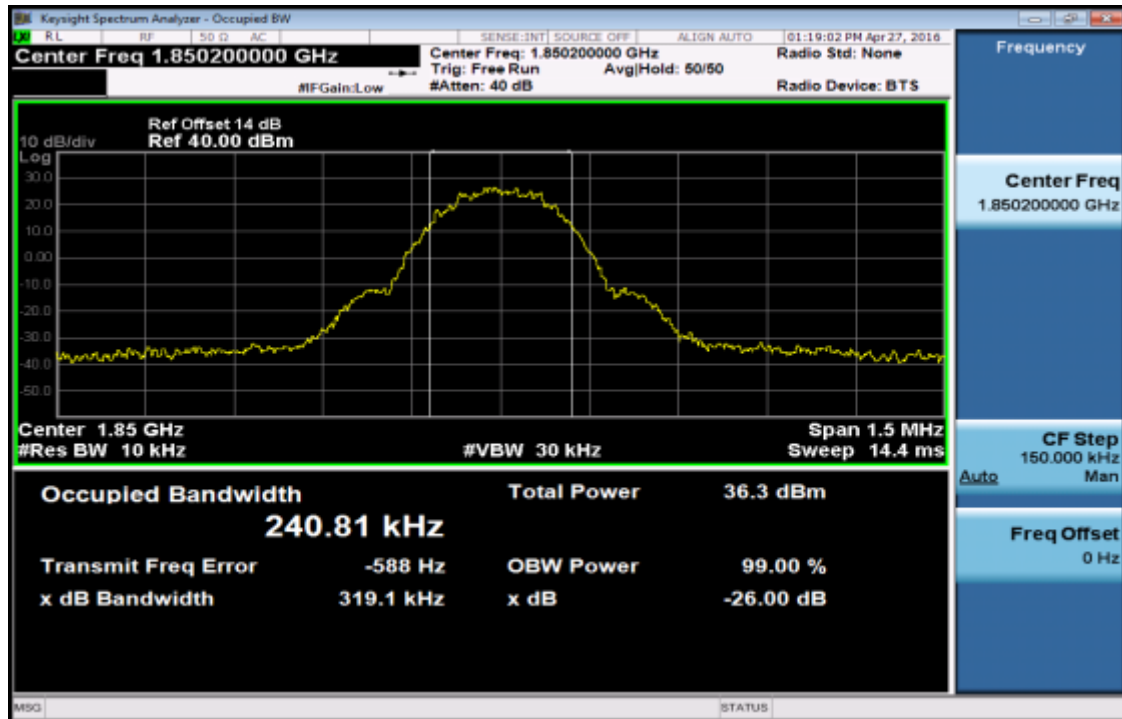
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GPRS 850 Channel High



GPRS 1900 Channel Low



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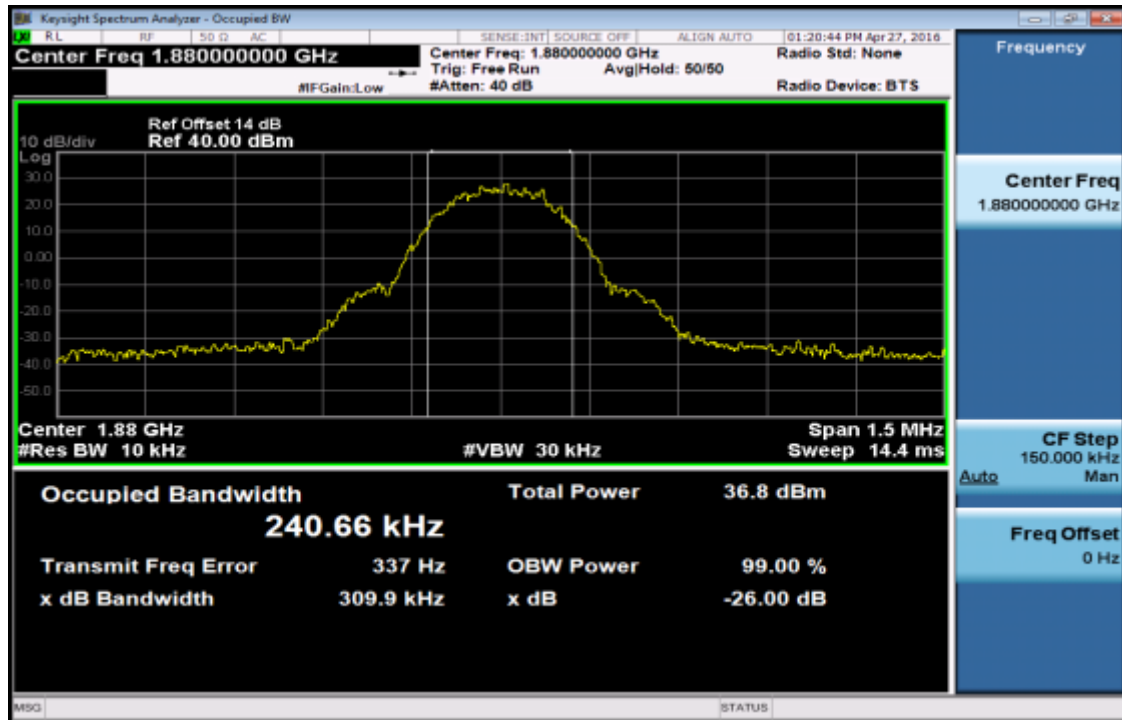
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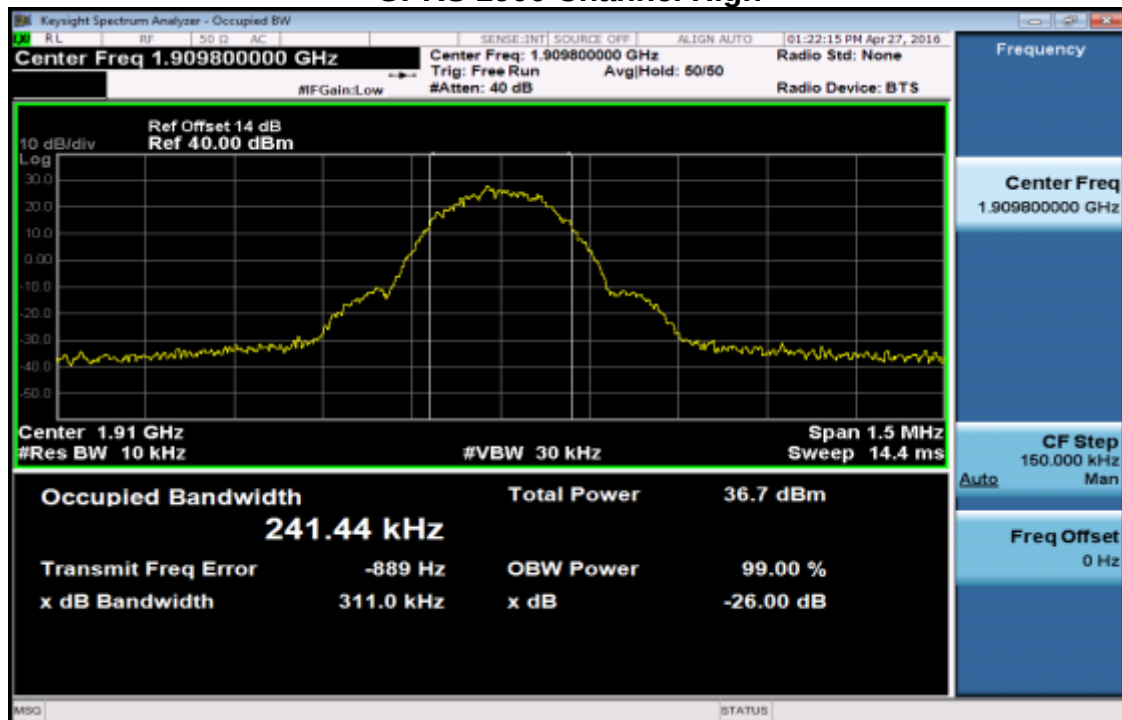
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Member of SGS Group

GPRS 1900 Channel Mid



GPRS 1900 Channel High



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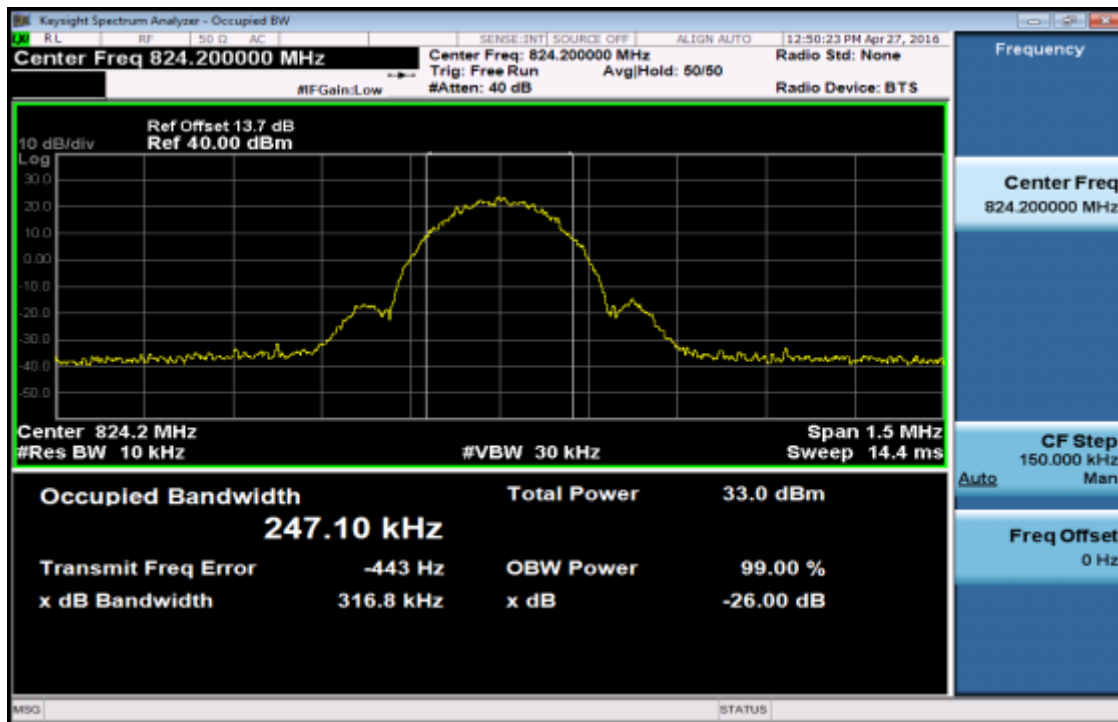
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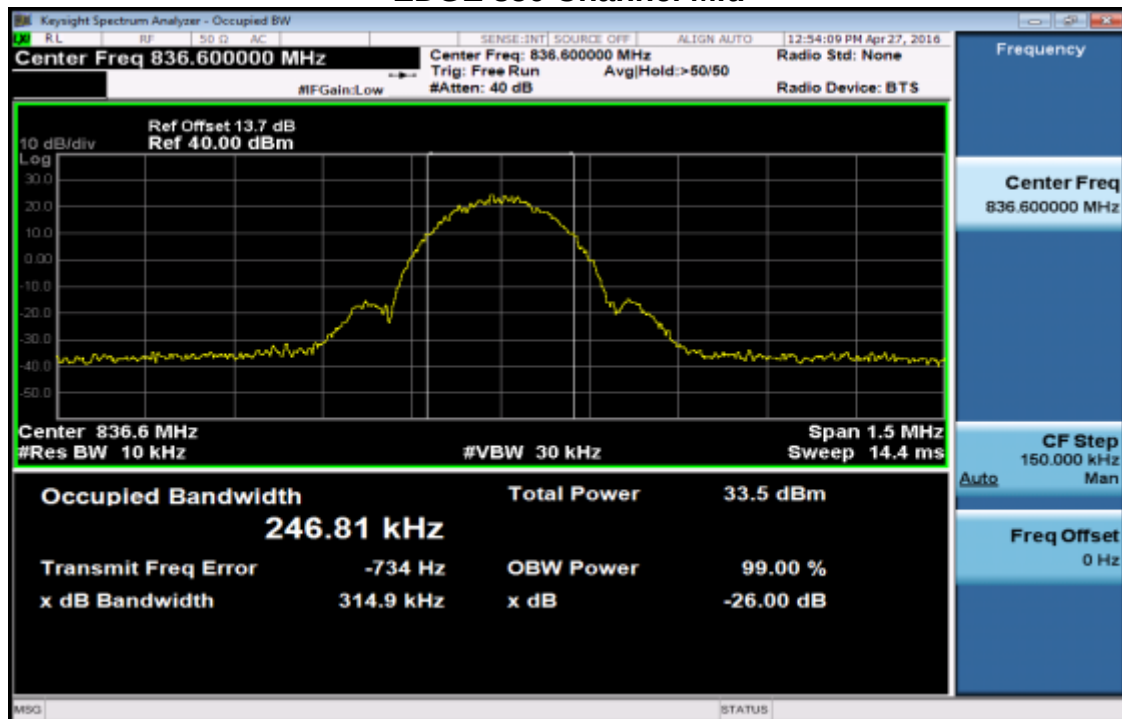
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EDGE 850 Channel Low



EDGE 850 Channel Mid



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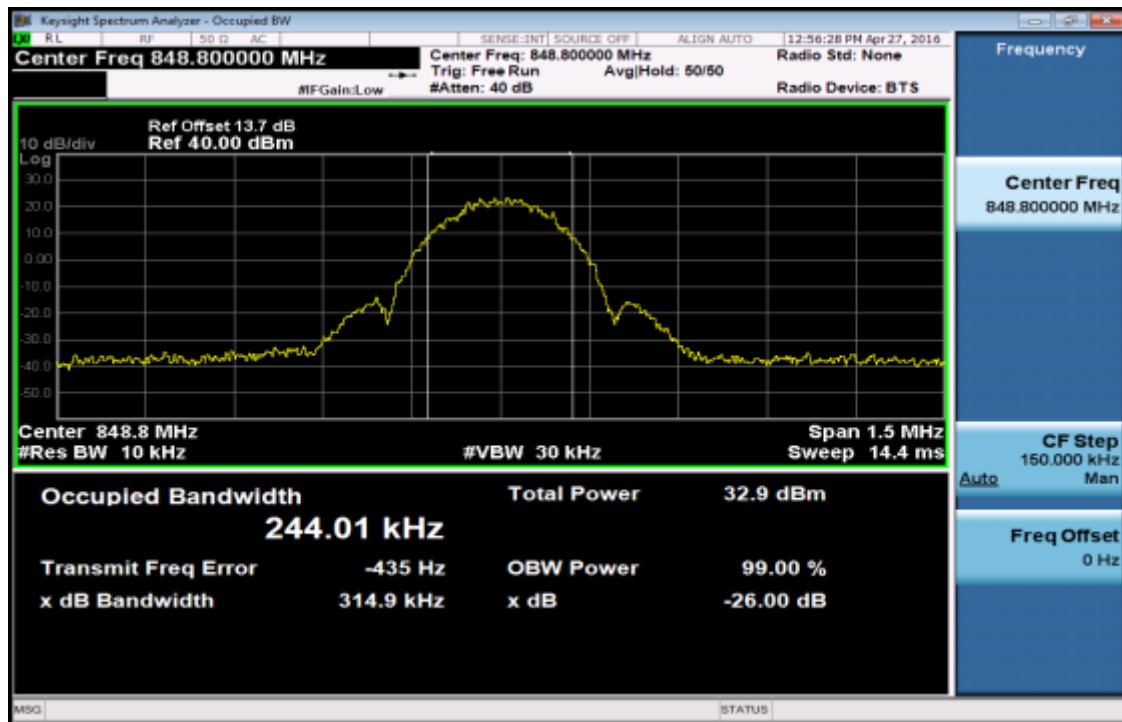
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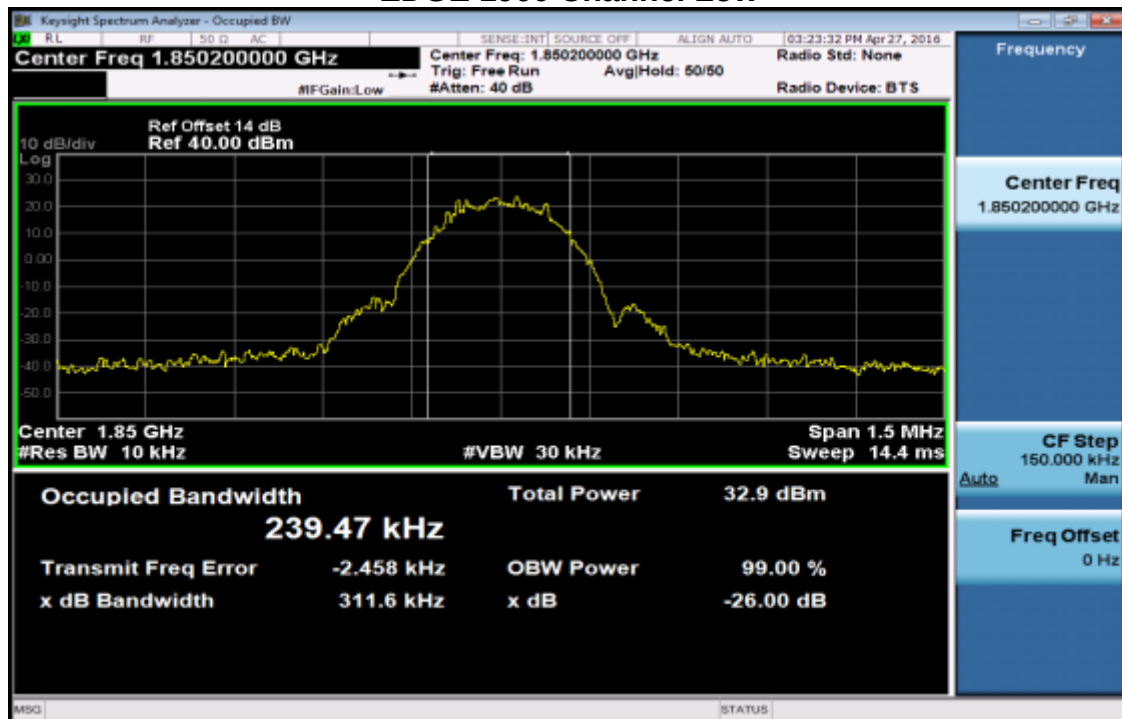
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EDGE 850 Channel High



EDGE 1900 Channel Low



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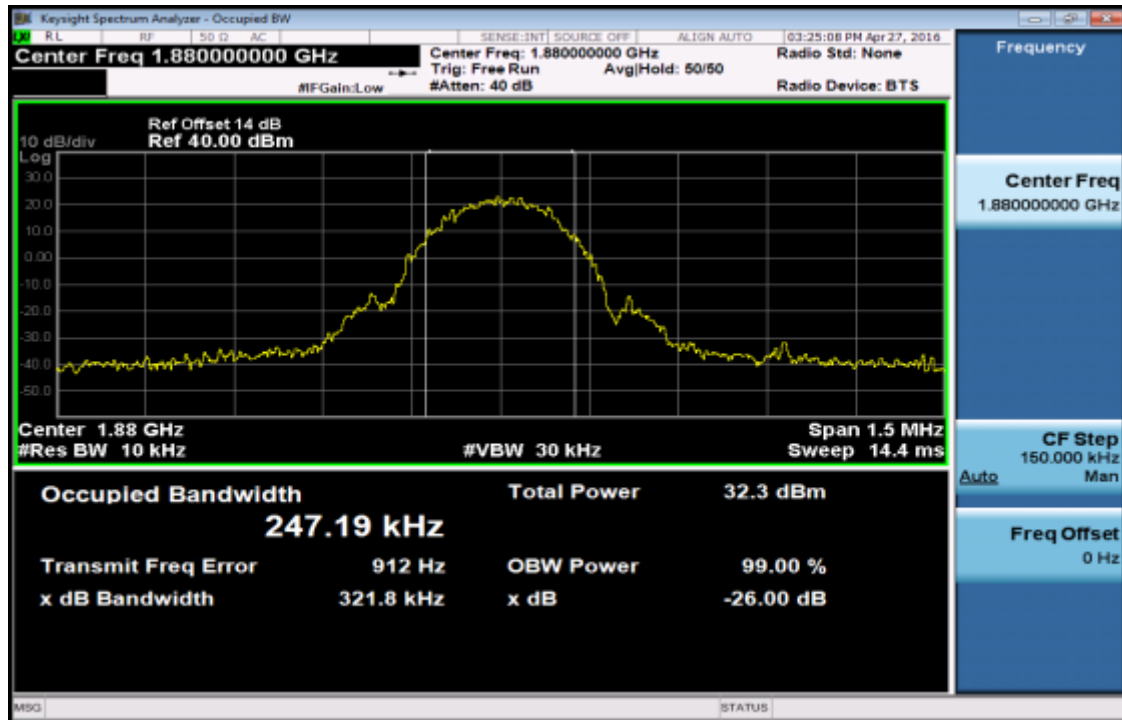
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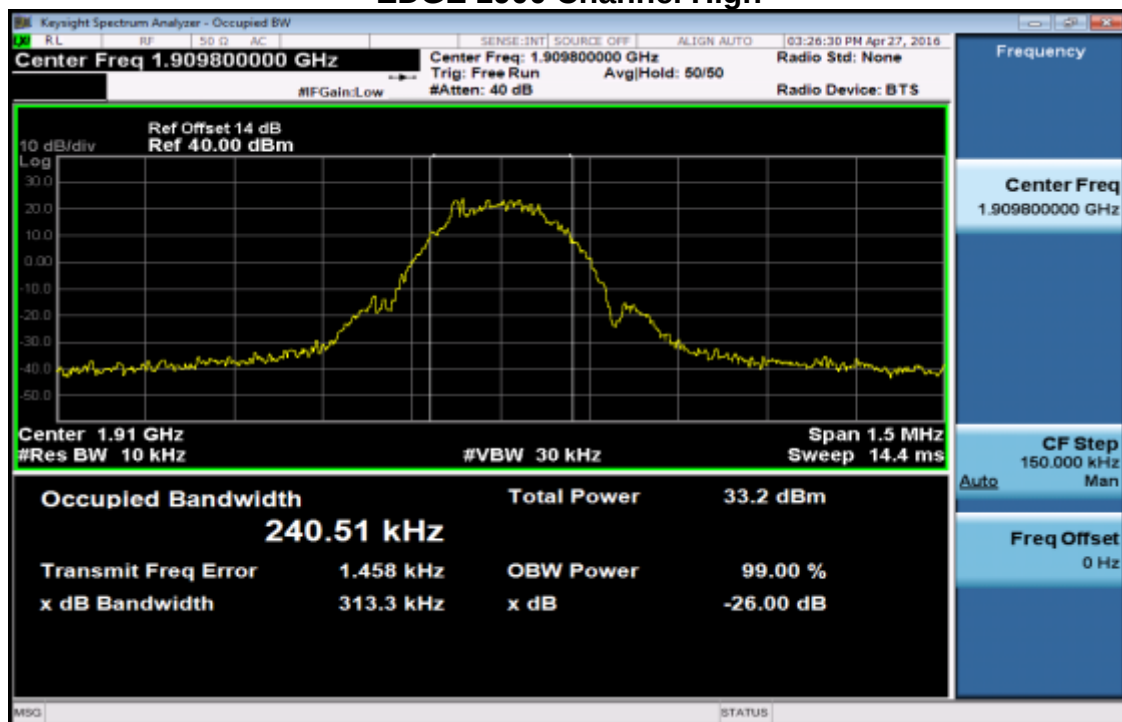
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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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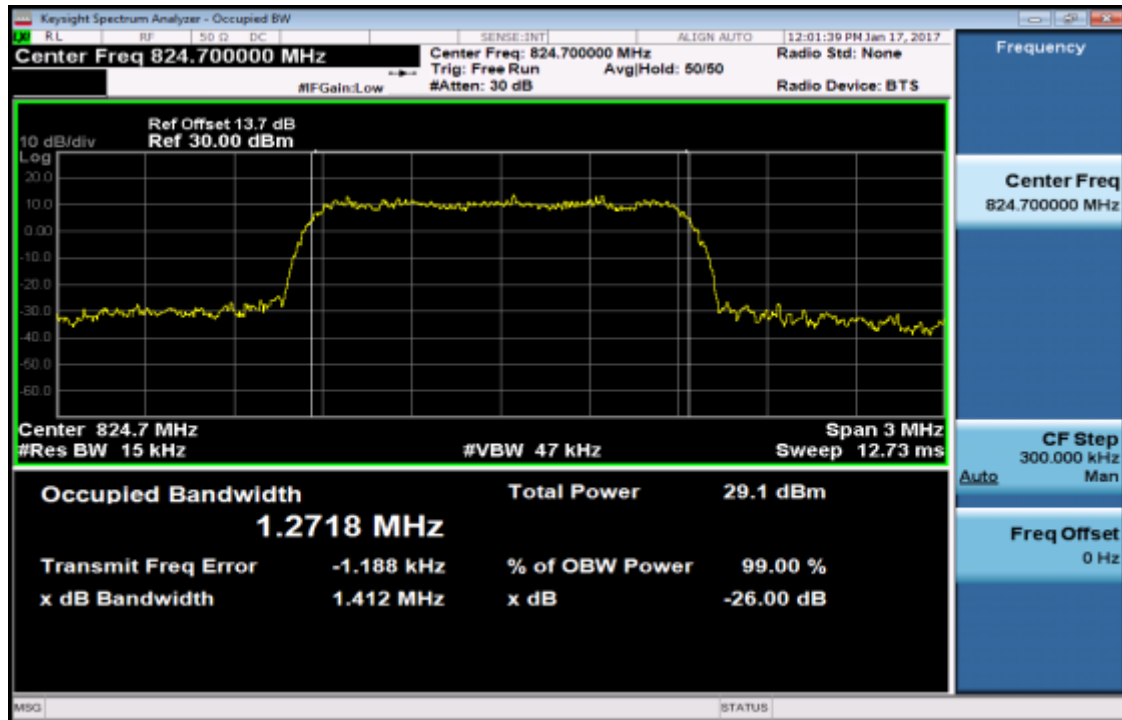
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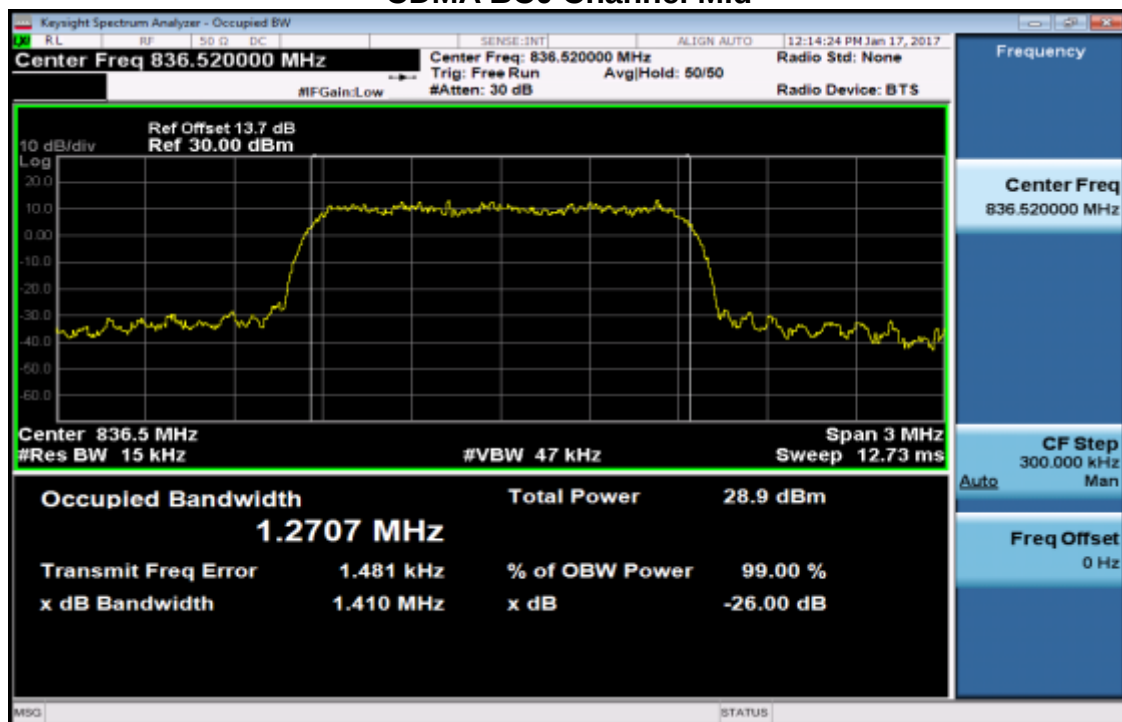
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CDMA BC0 Channel Low



CDMA BC0 Channel Mid



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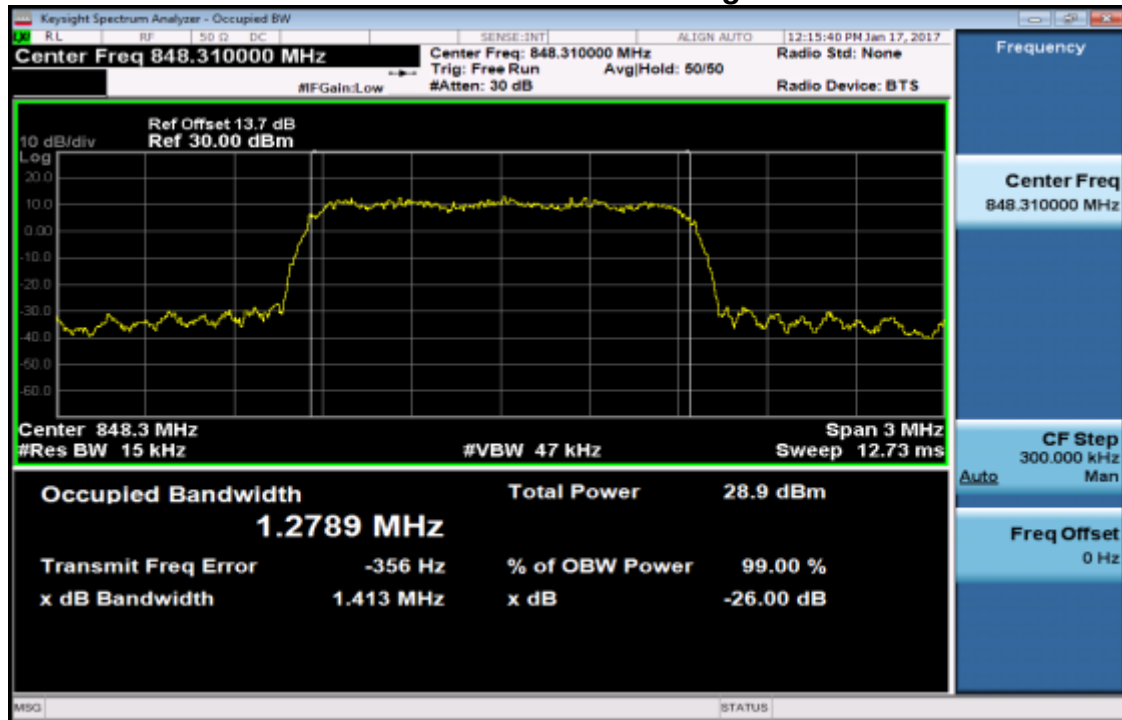
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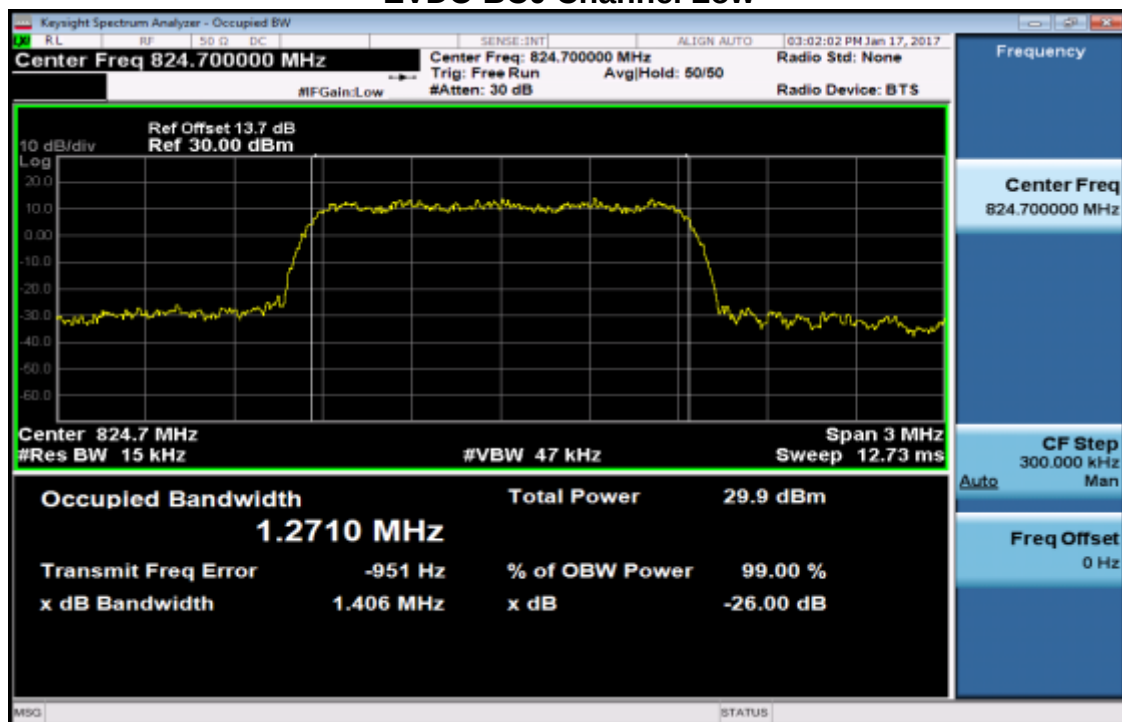
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CDMA BC0 Channel High



EVDO BC0 Channel Low



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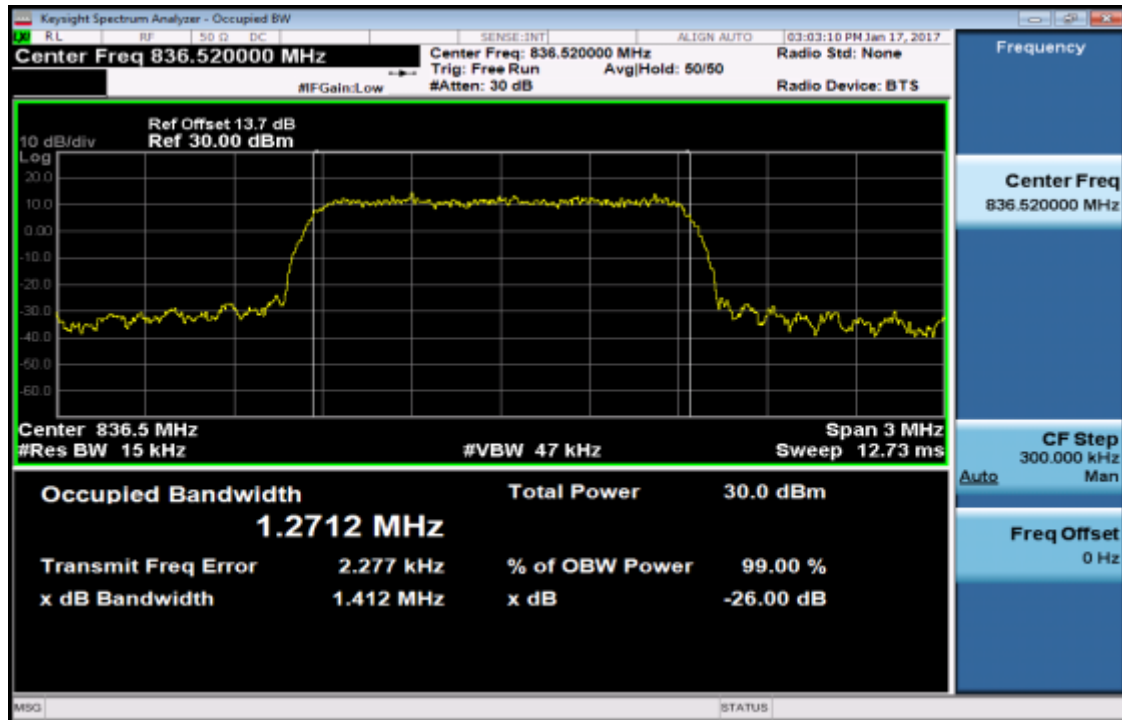
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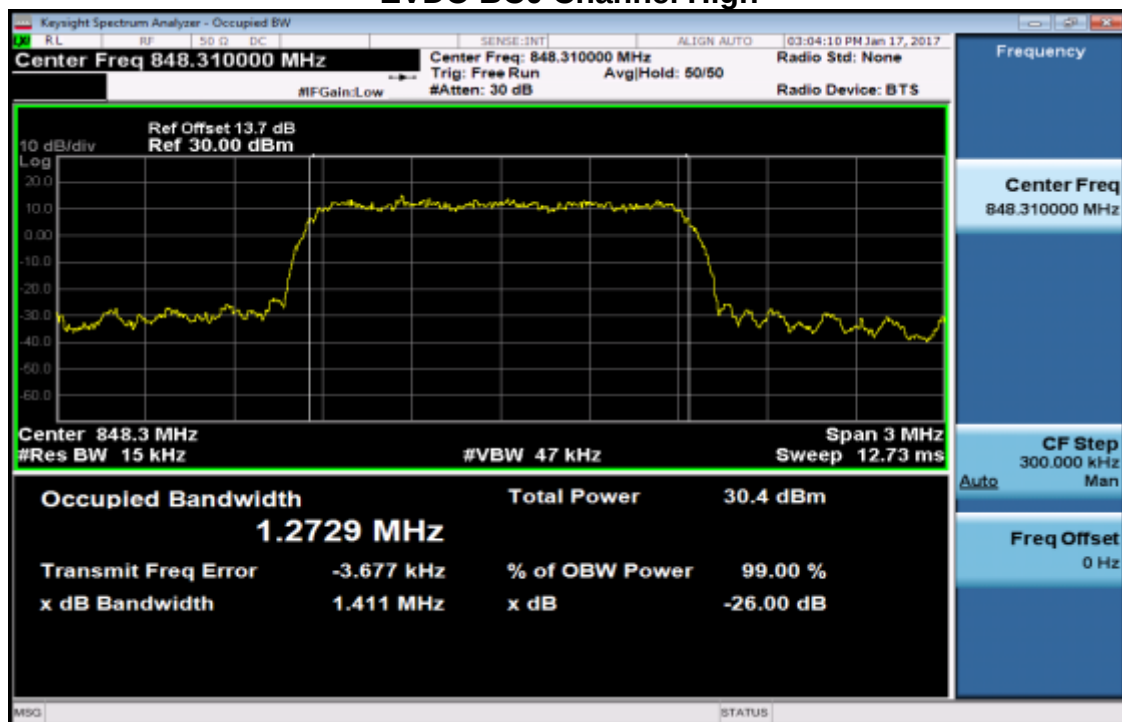
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EVDO BC0 Channel Mid



EVDO BC0 Channel High



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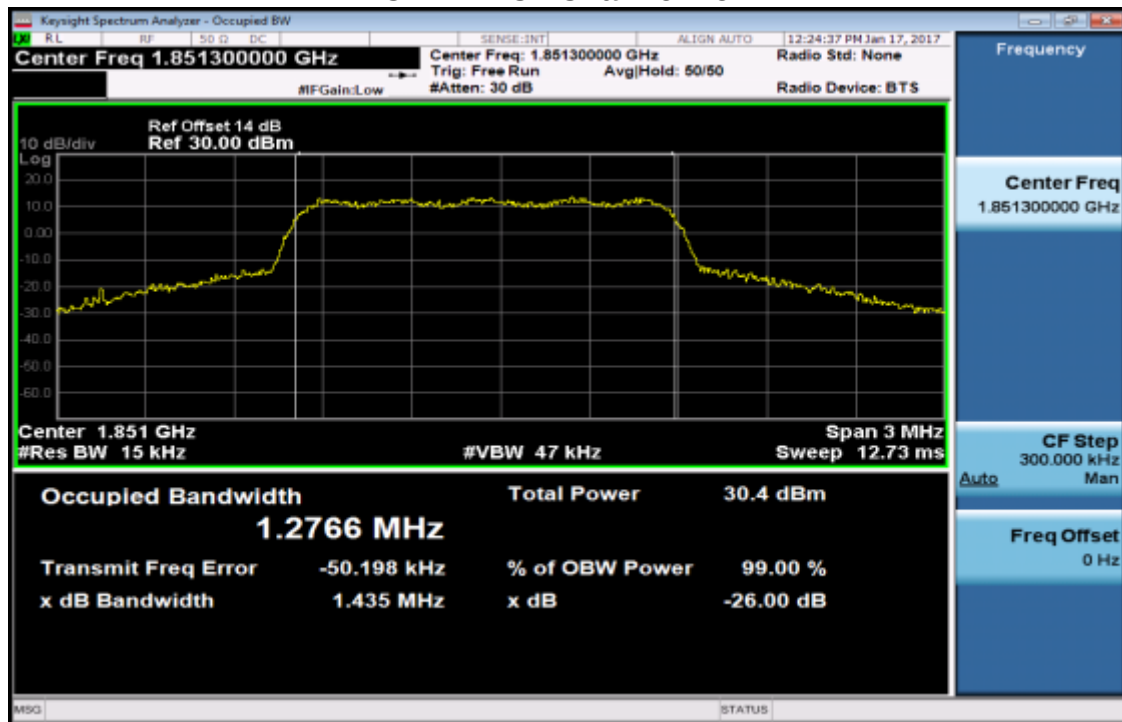
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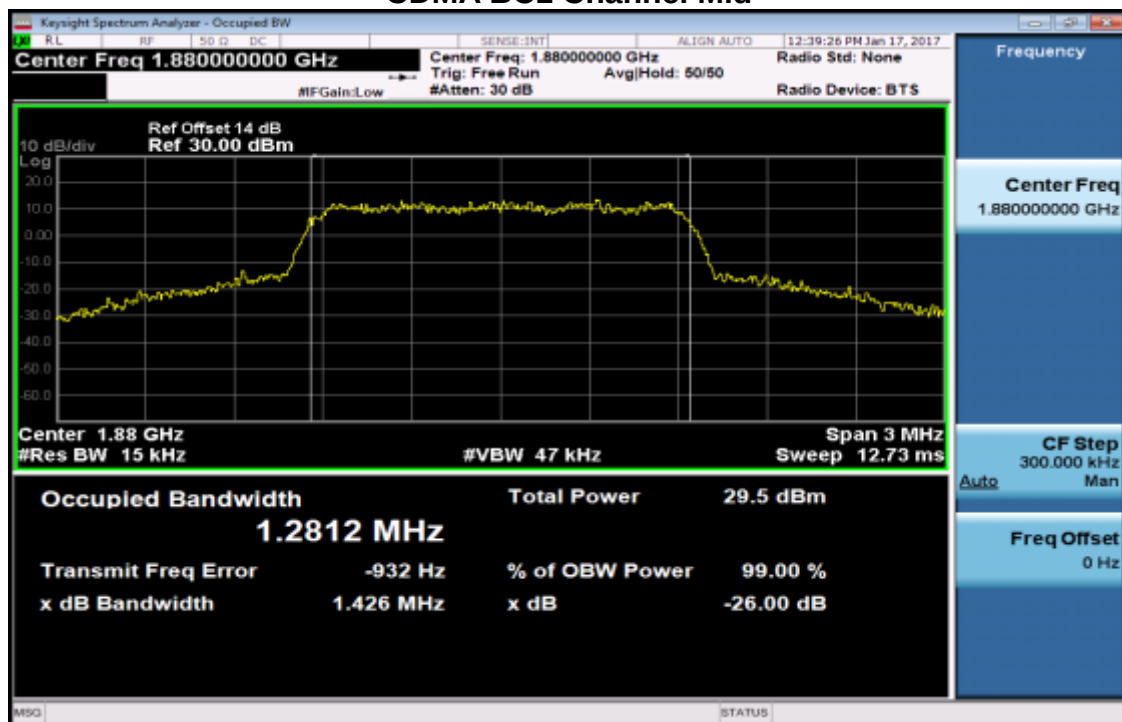
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CDMA BC1 Channel Low



CDMA BC1 Channel Mid



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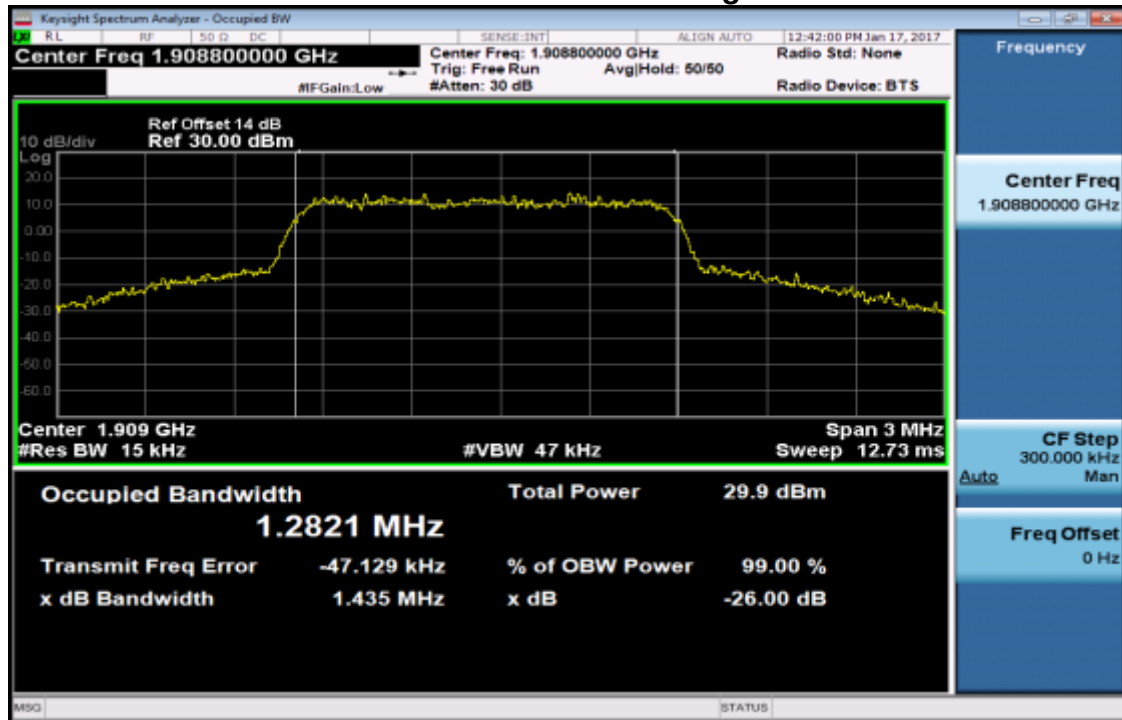
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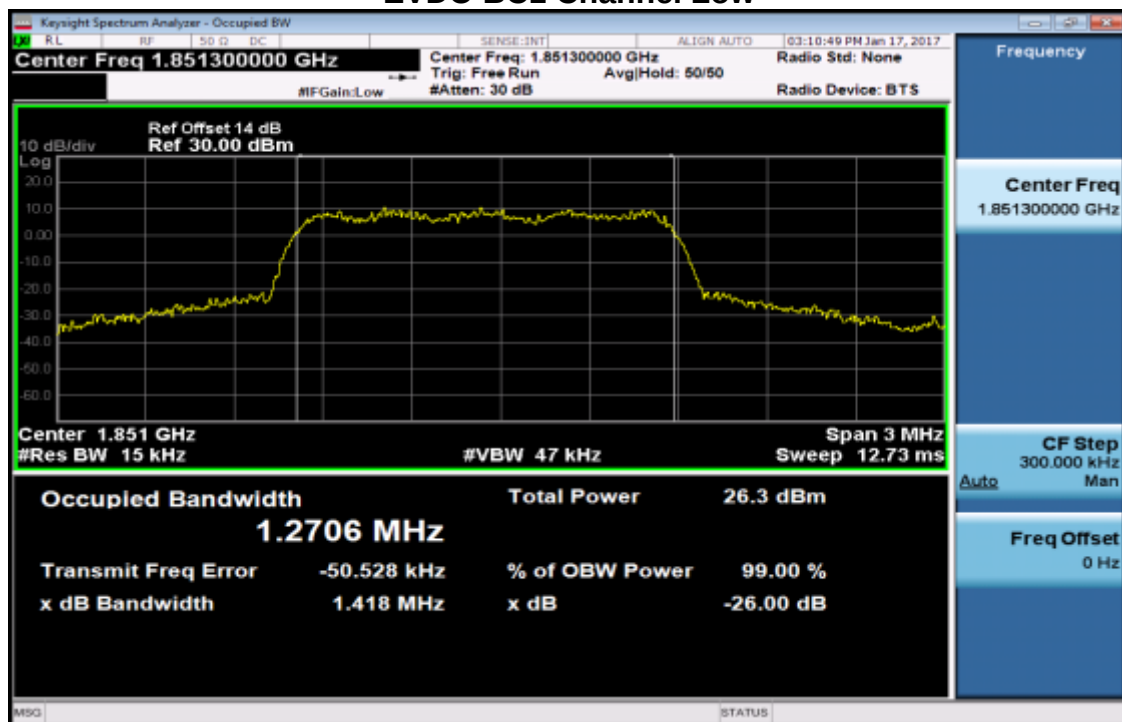
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CDMA BC1 Channel High



EVDO BC1 Channel Low



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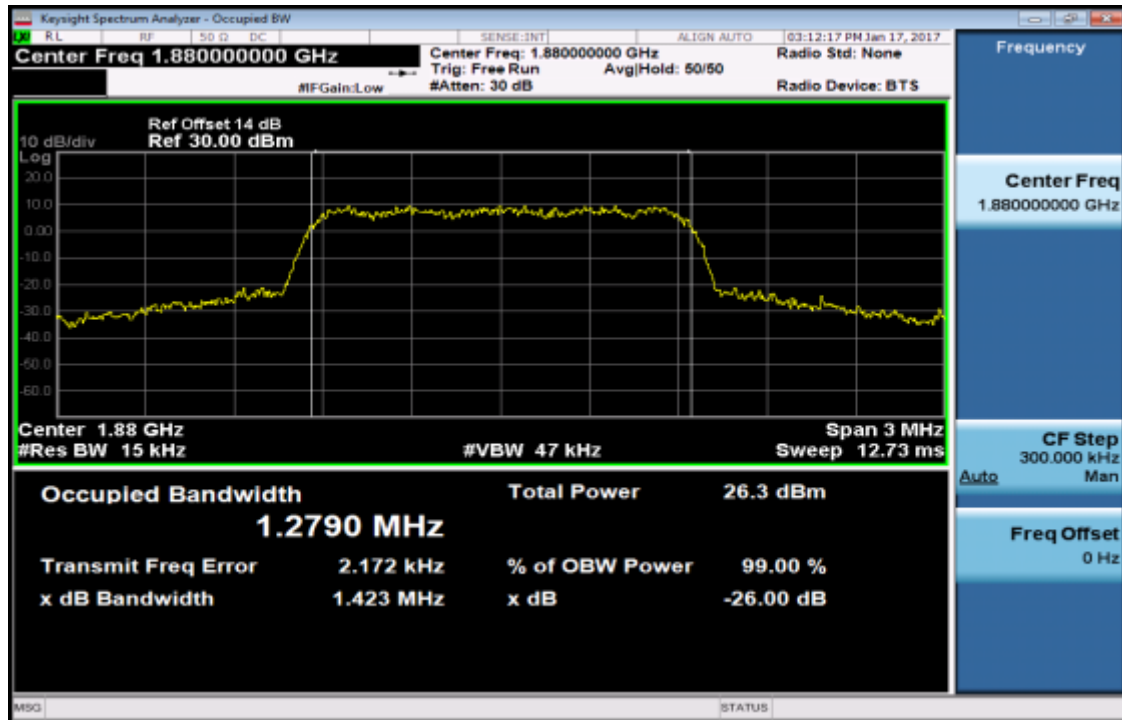
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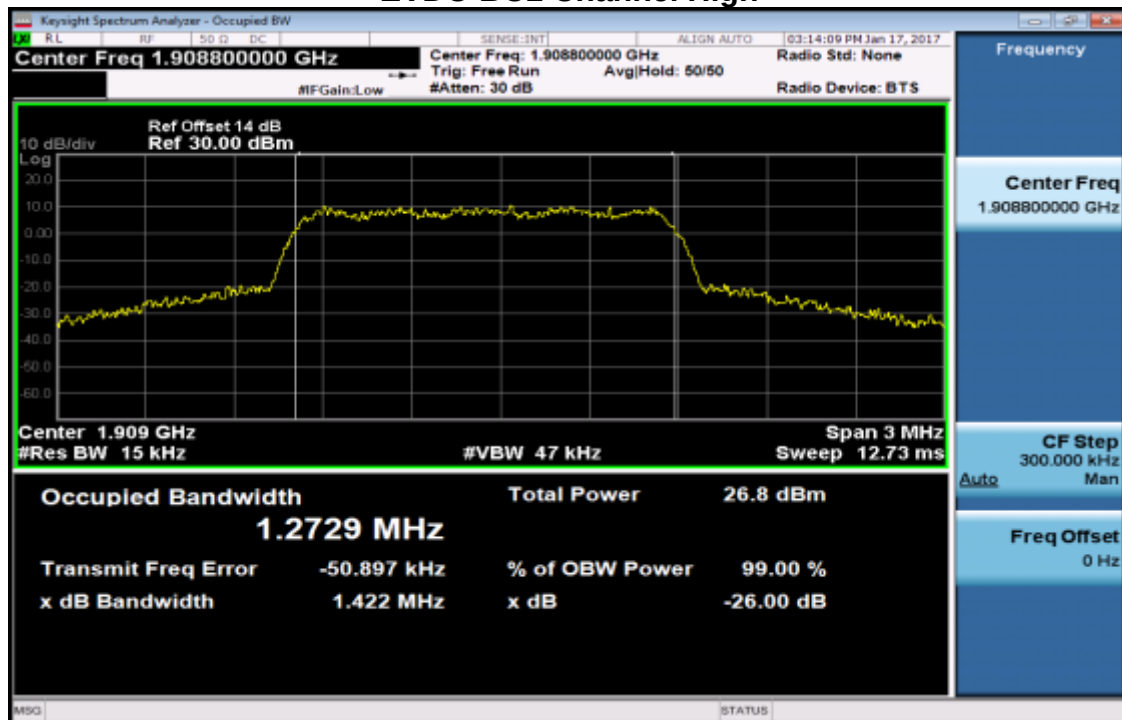
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EVDO BC1 Channel Mid



EVDO BC1 Channel High



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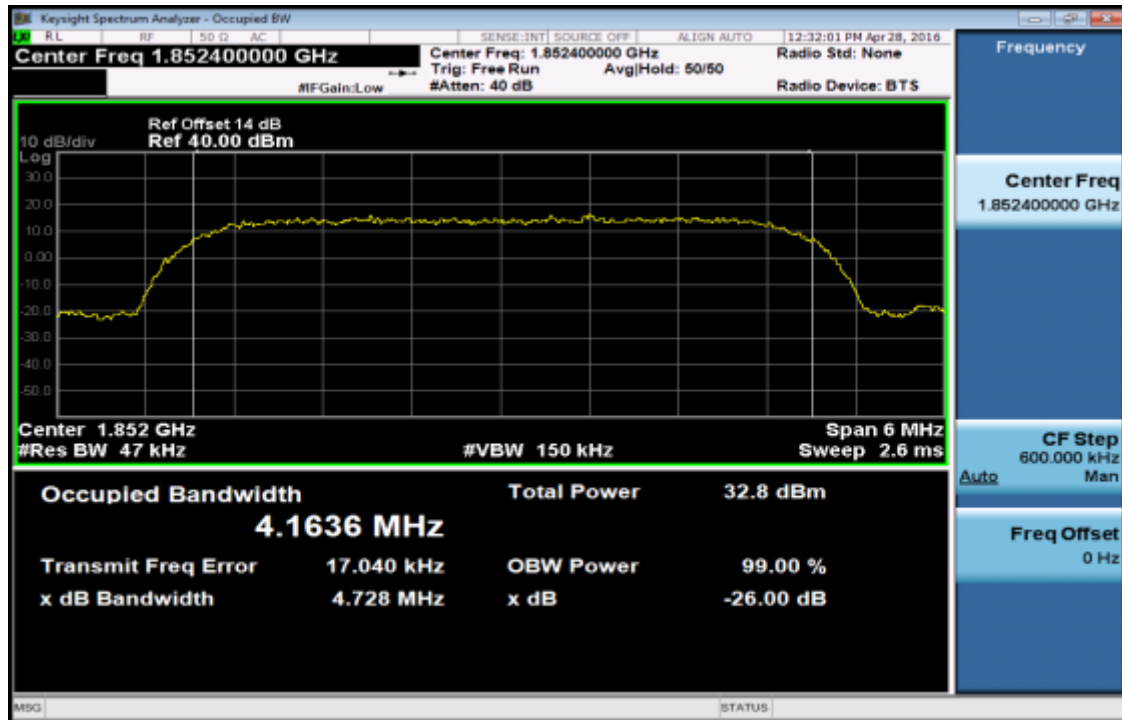
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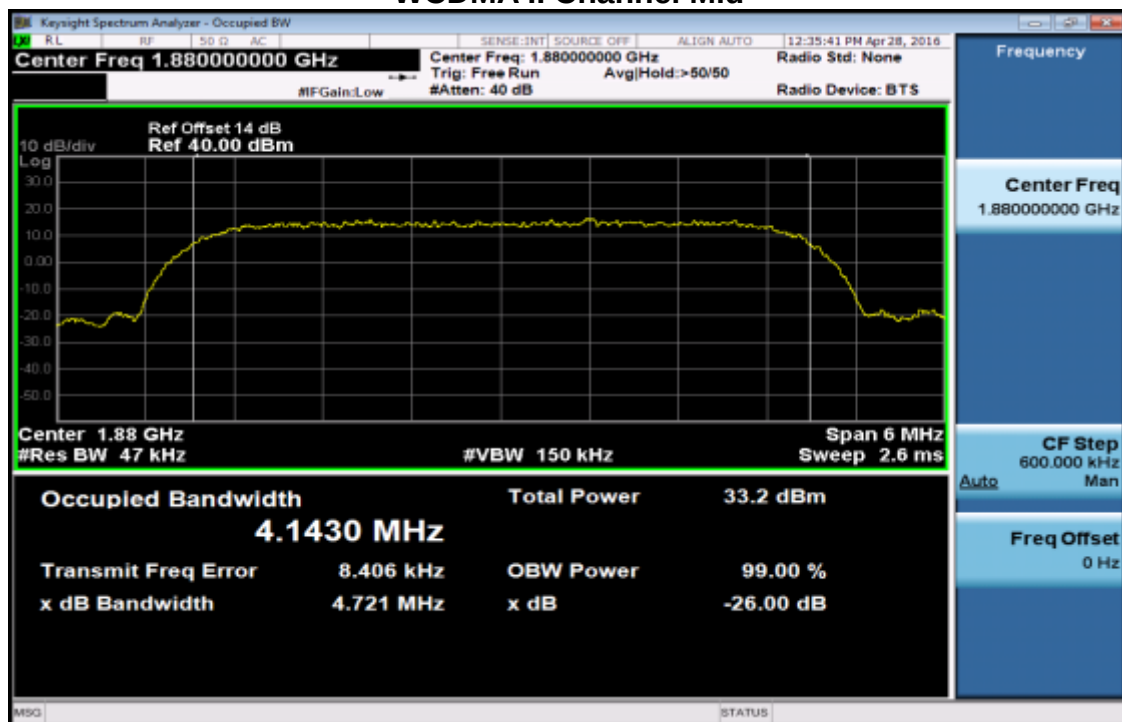
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WCDMA II Channel Low



WCDMA II Channel Mid



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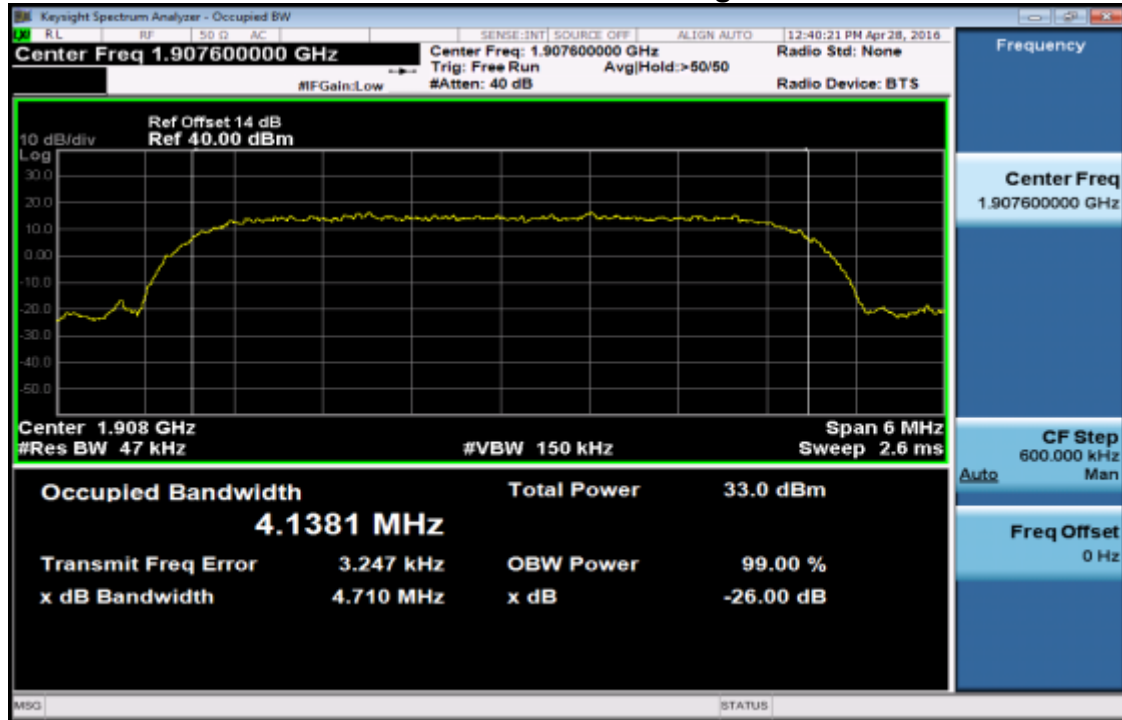
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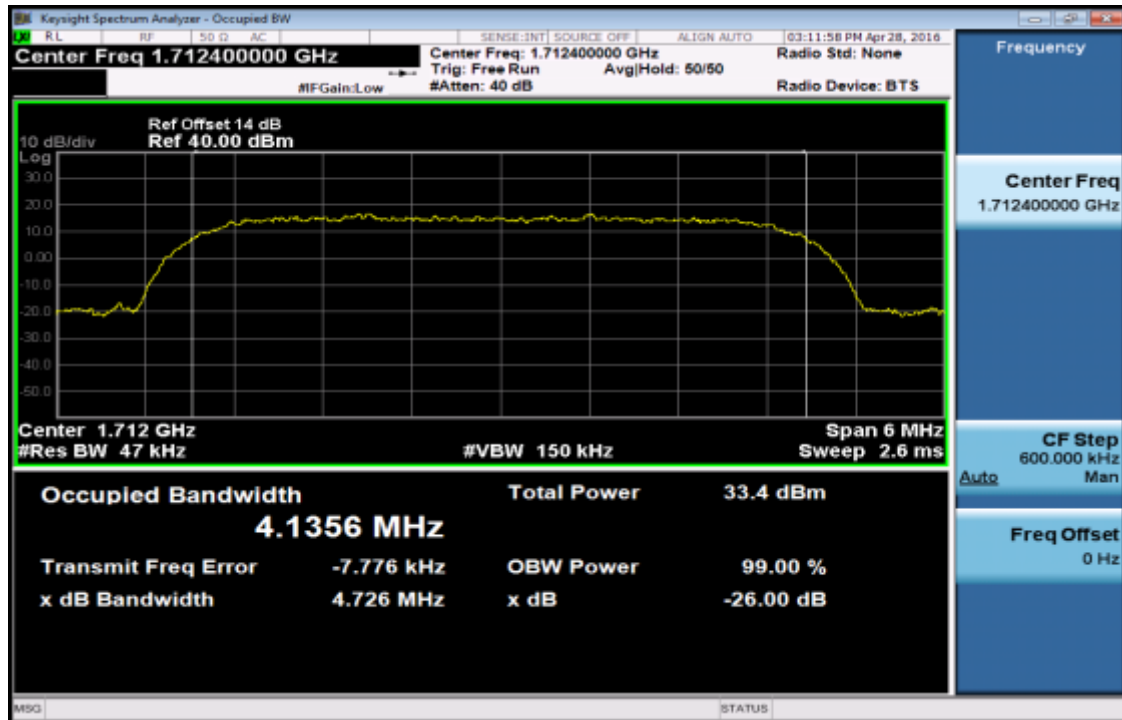
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WCDMA II Channel High



WCDMA IV Channel Low



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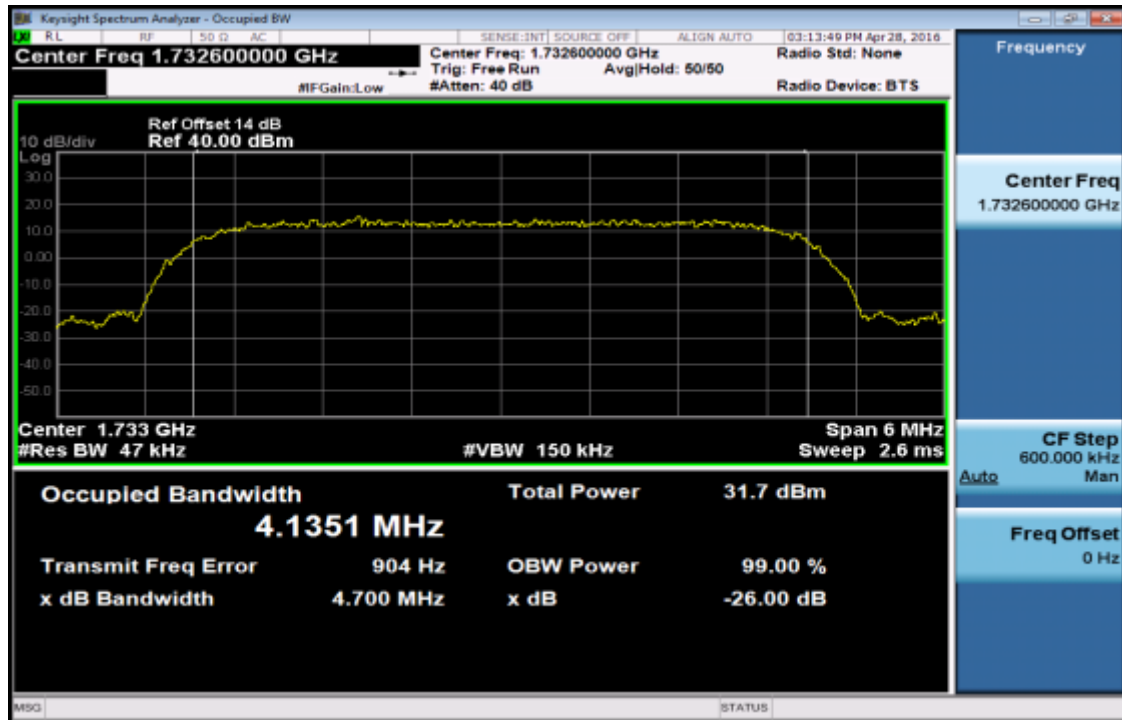
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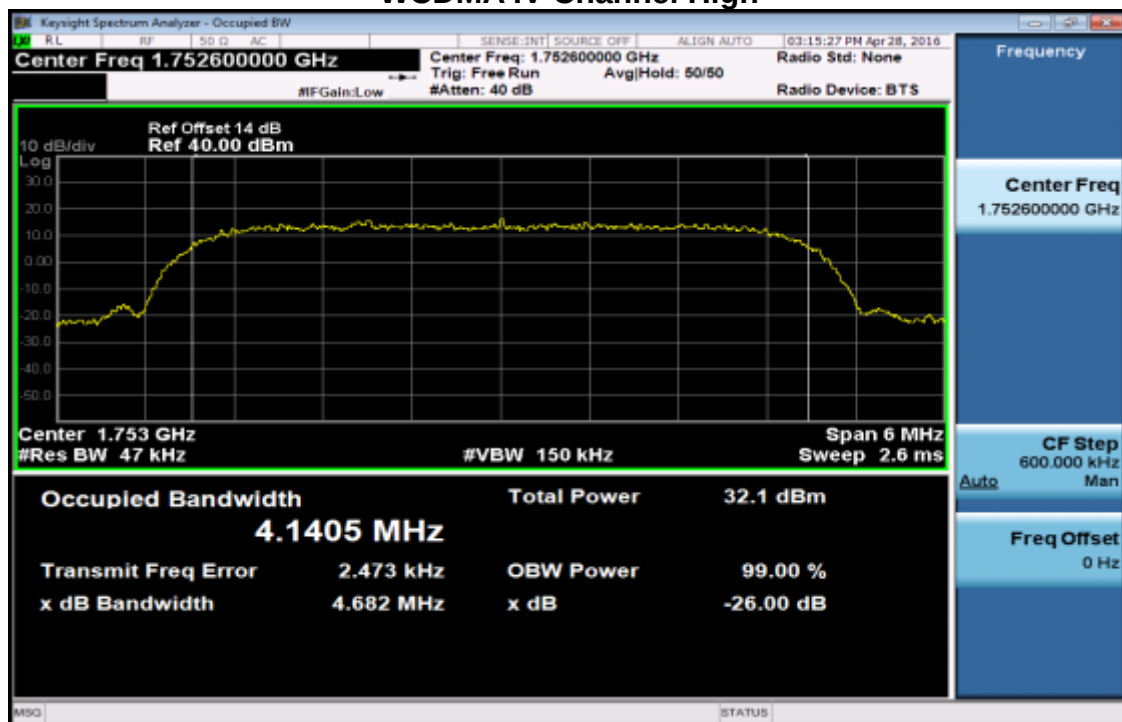
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WCDMA IV Channel Mid



WCDMA IV Channel High



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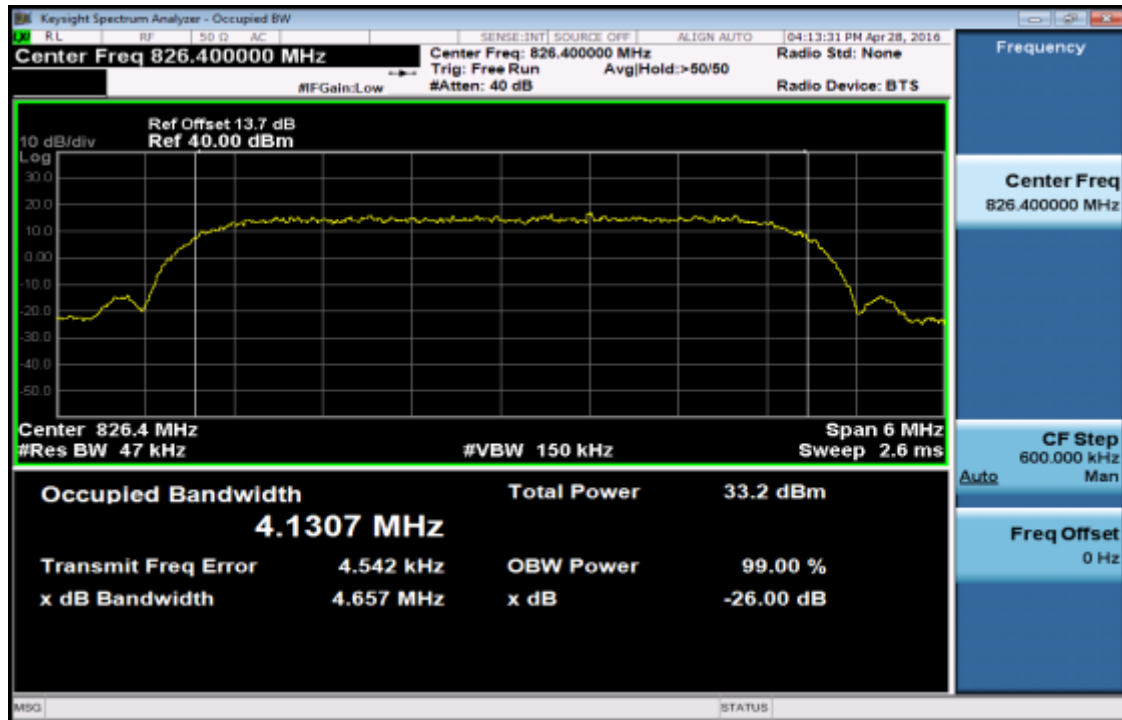
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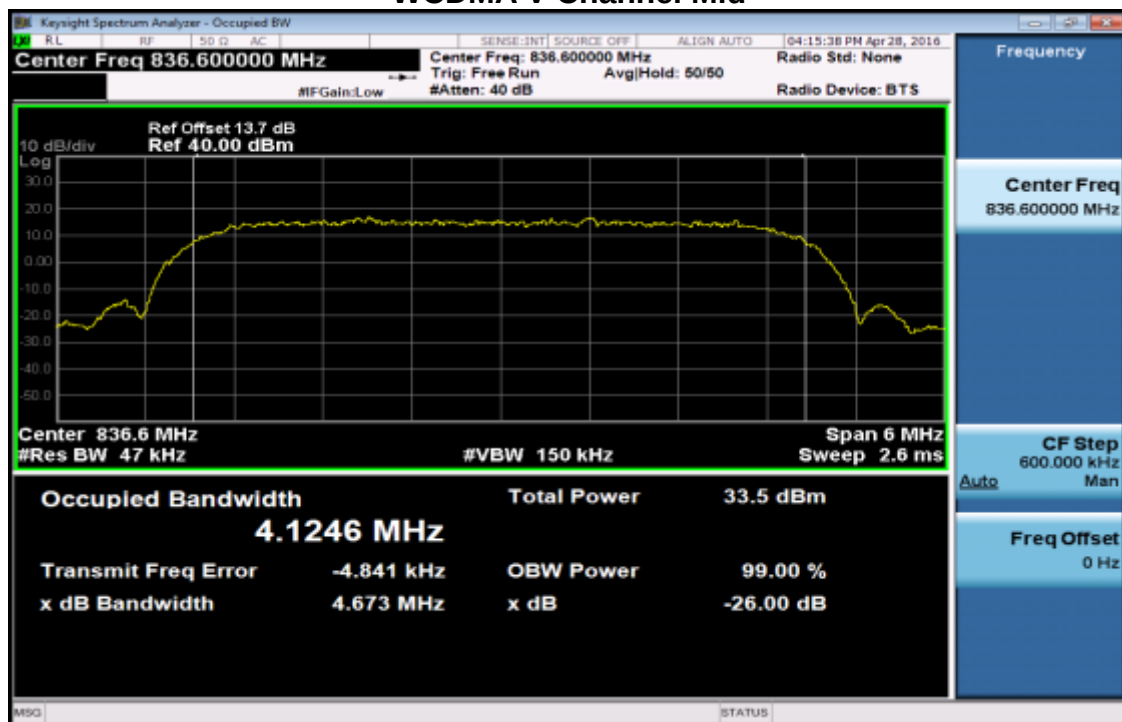
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WCDMA V Channel Low



WCDMA V Channel Mid



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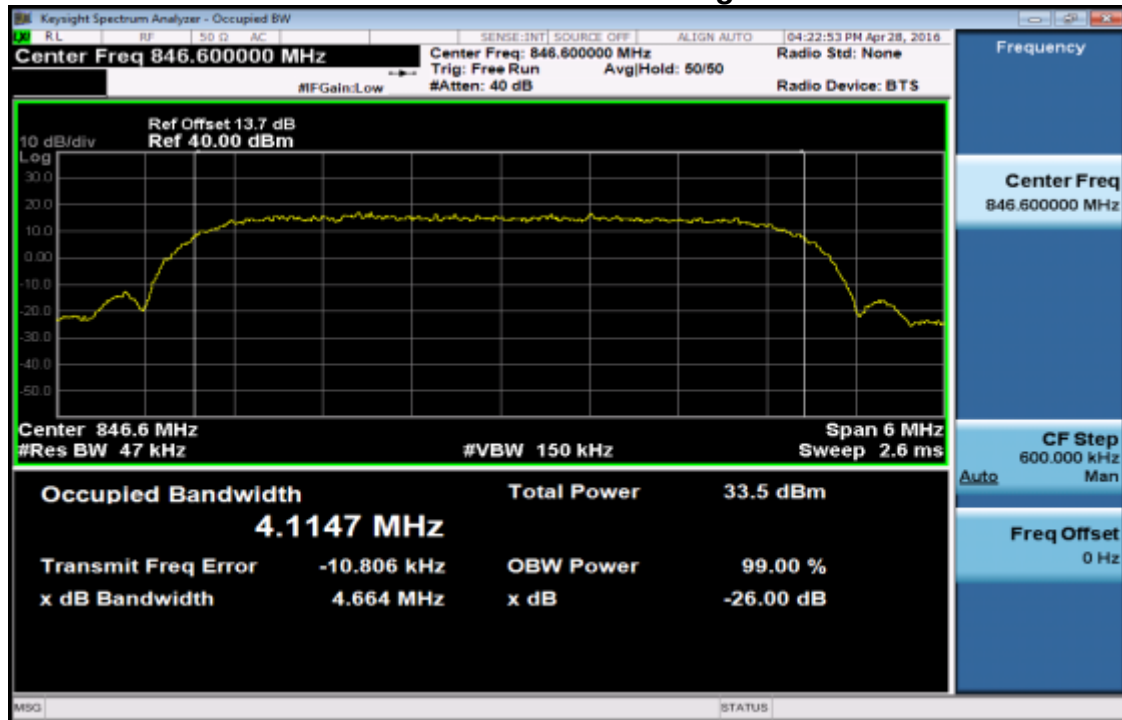
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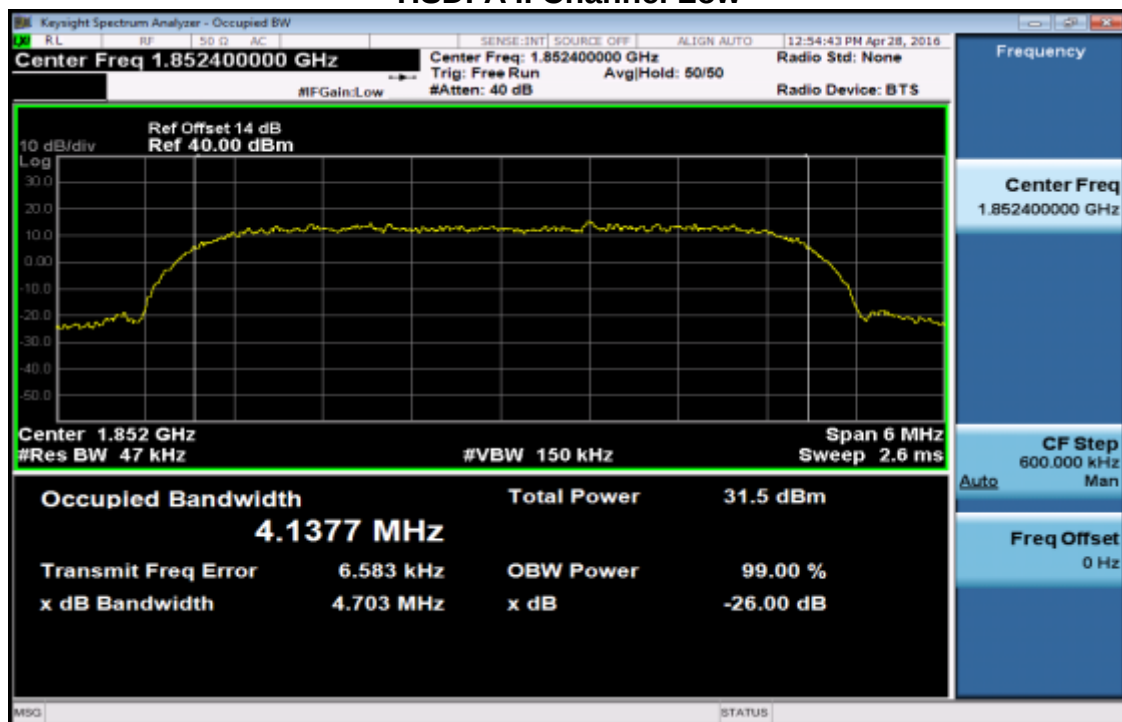
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WCDMA V Channel High



HSDPA II Channel Low



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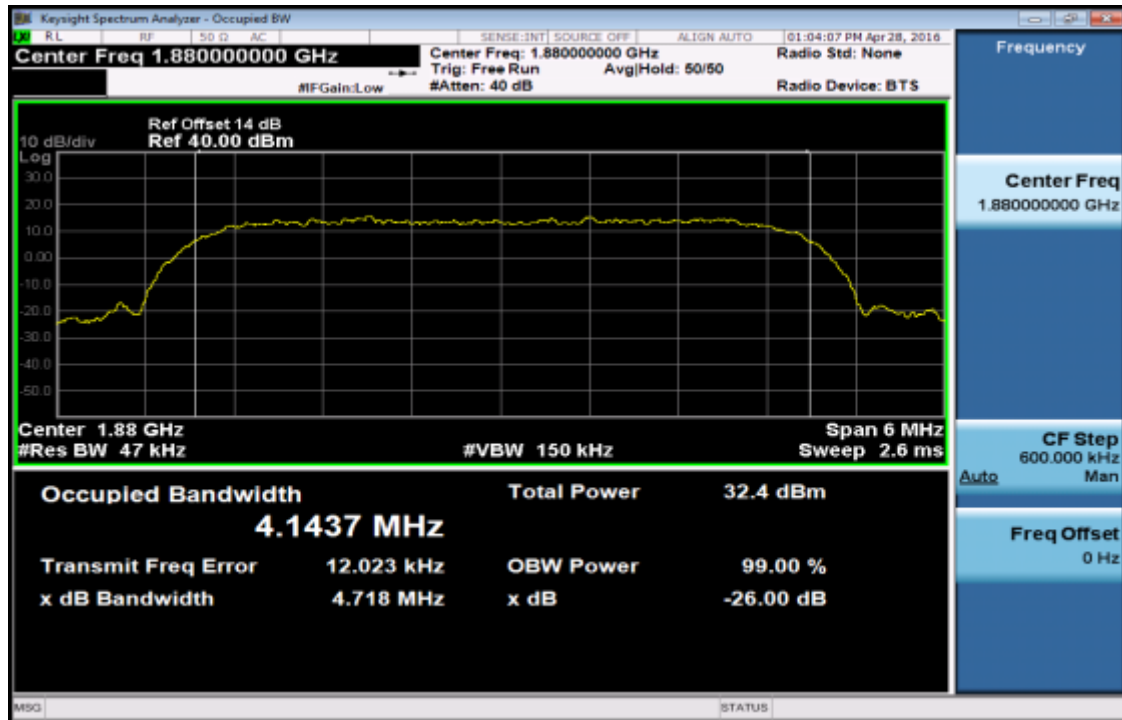
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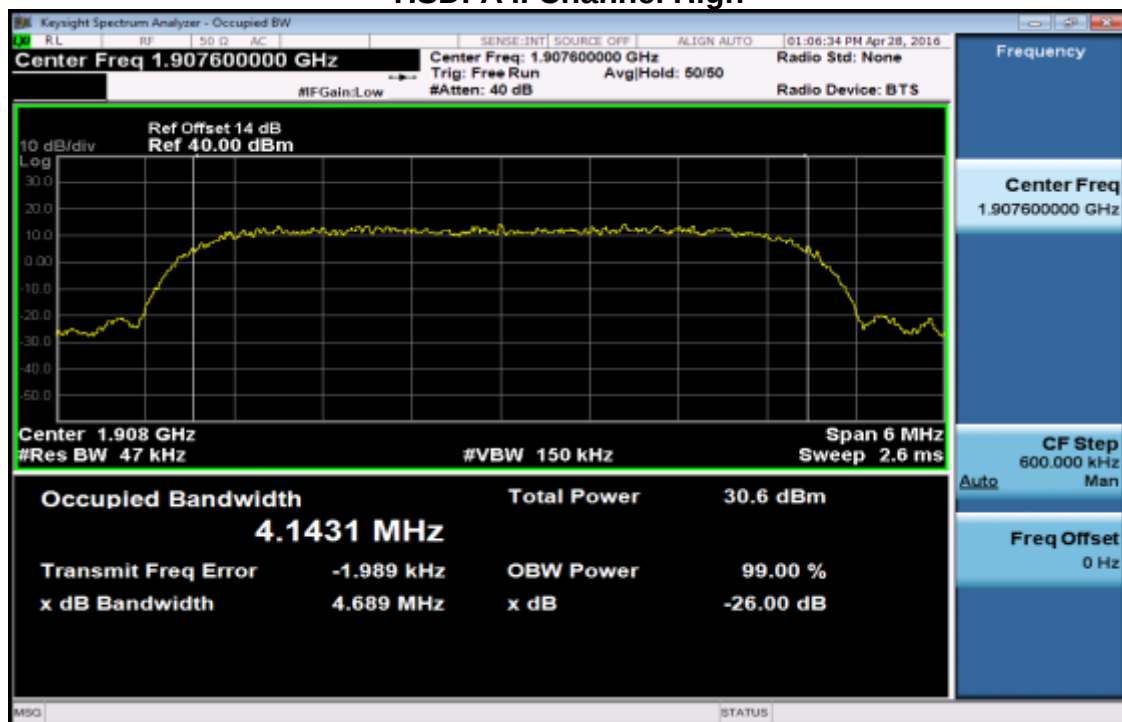
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HSDPA II Channel Mid



HSDPA II Channel High



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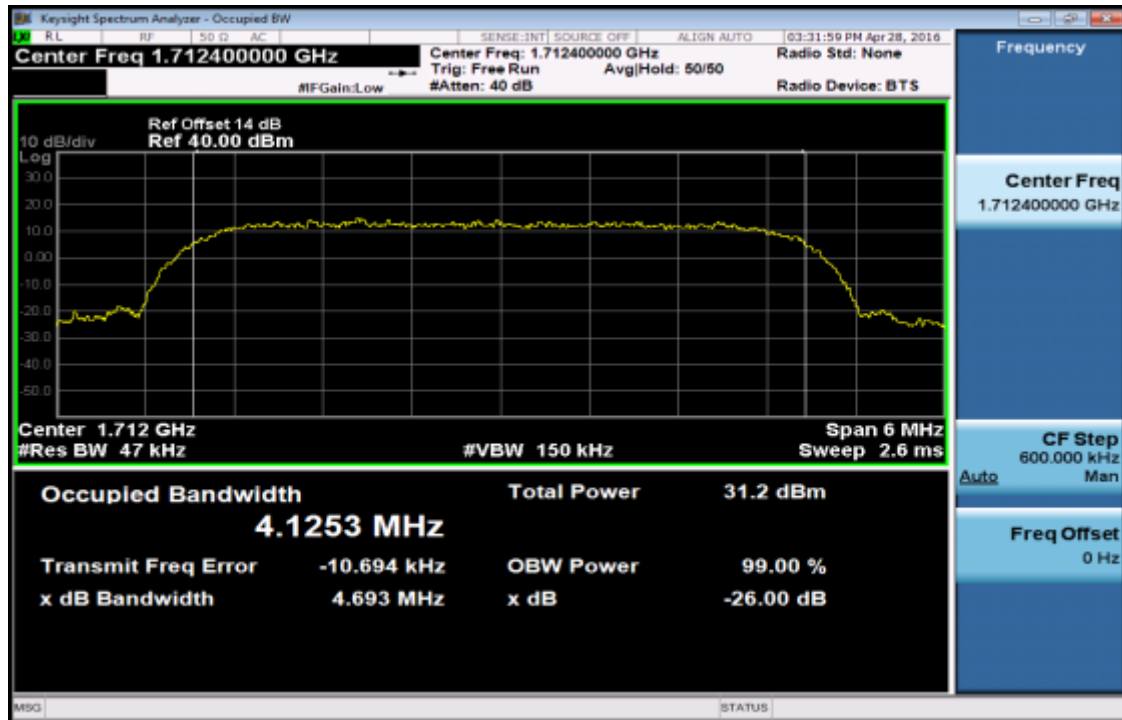
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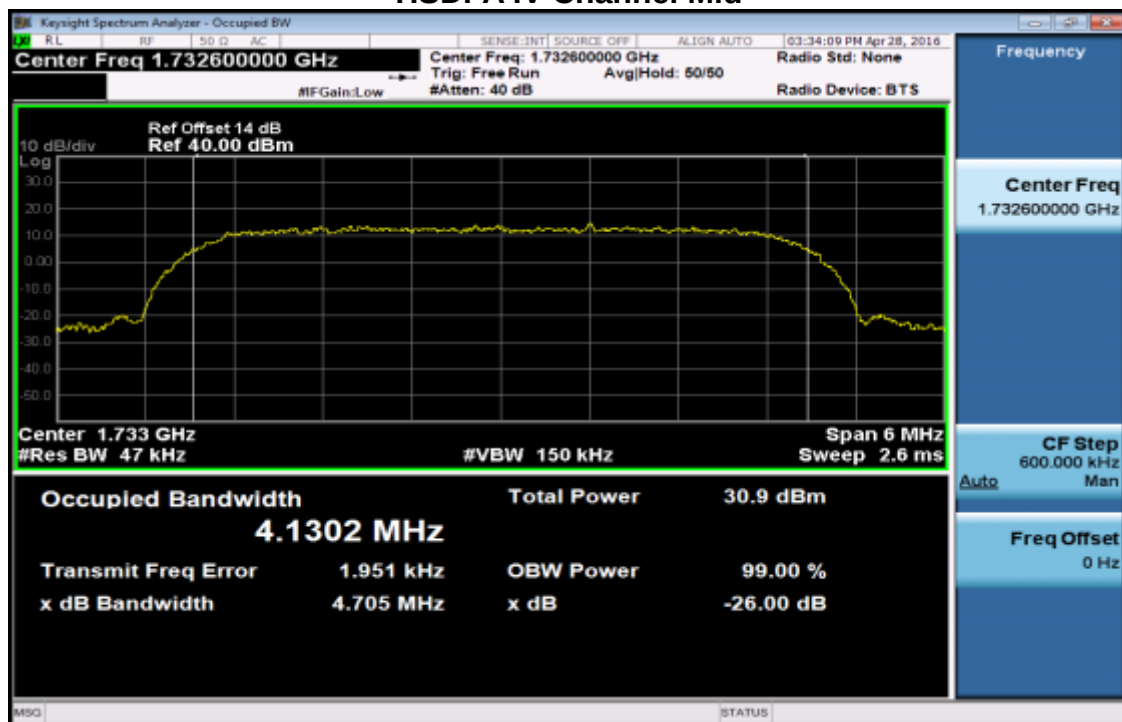
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HSDPA IV Channel Low



HSDPA IV Channel Mid



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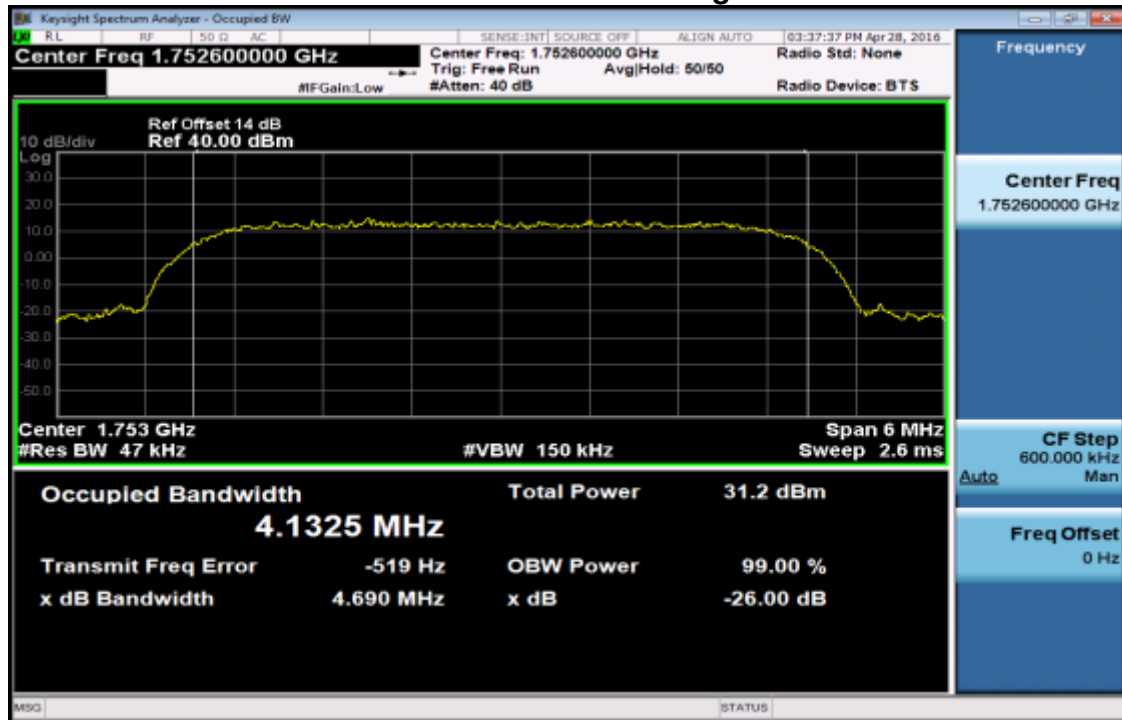
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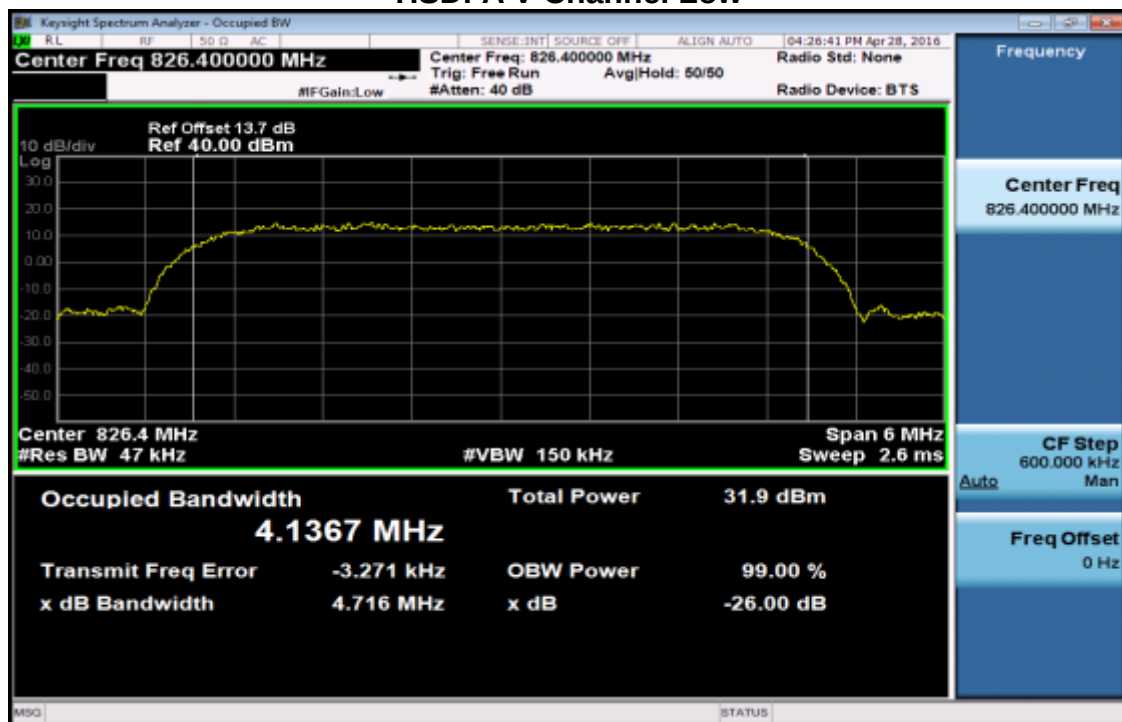
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HSDPA IV Channel High



HSDPA V Channel Low



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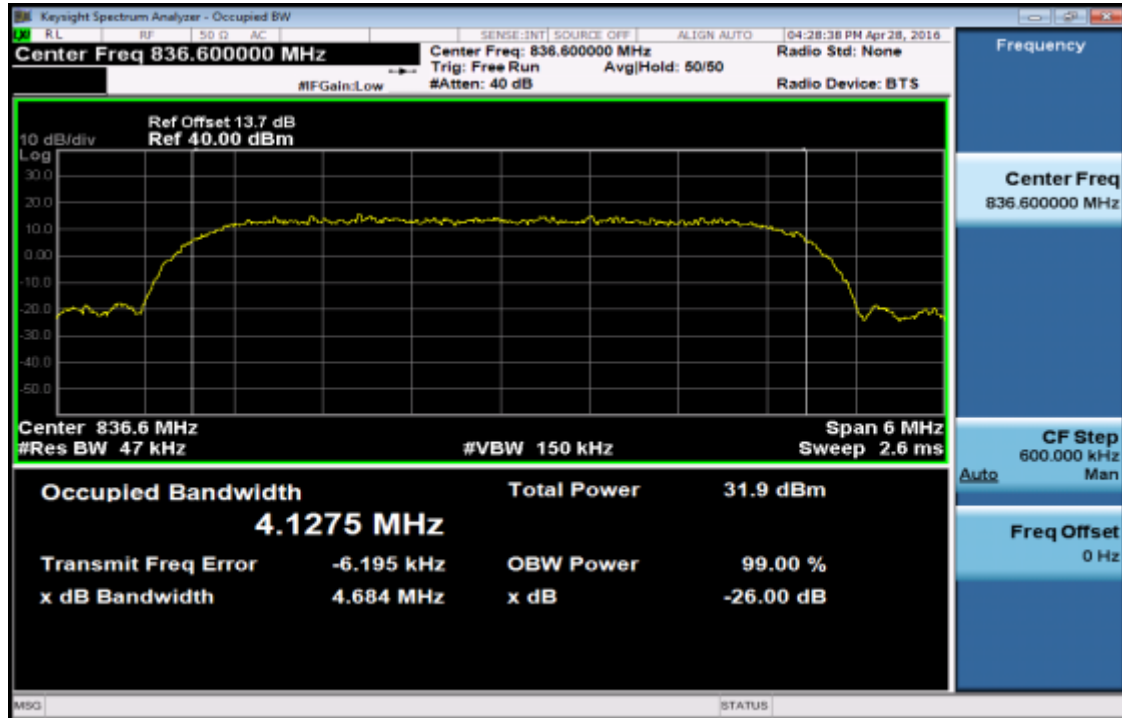
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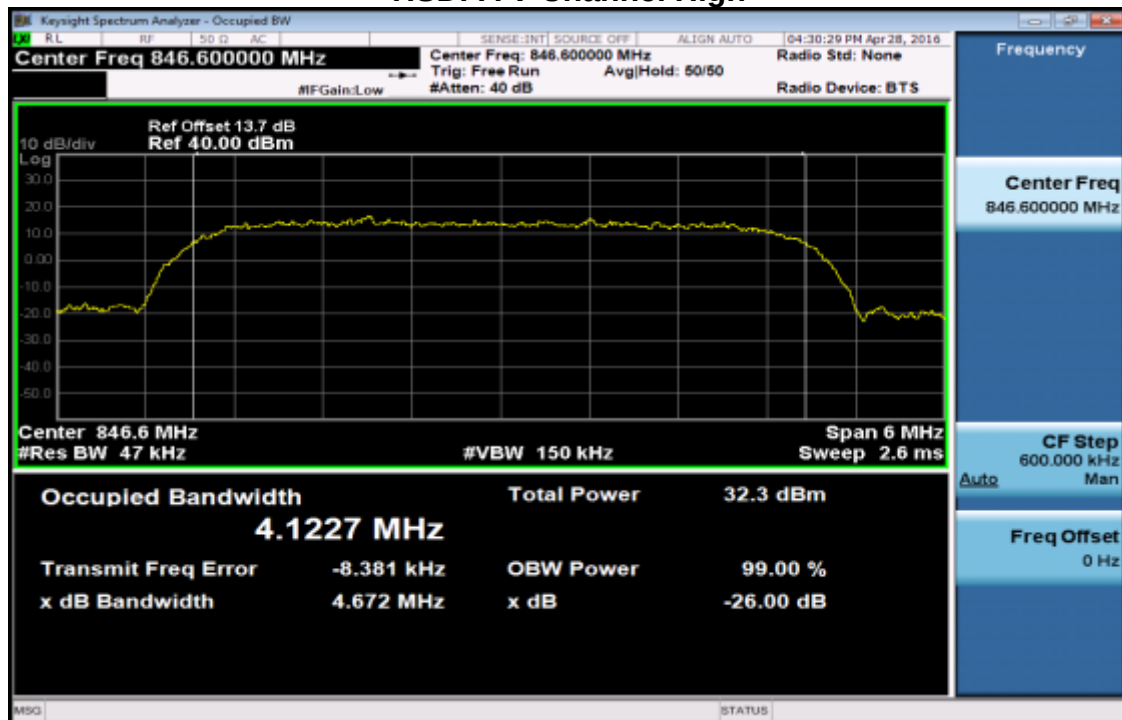
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HSDPA V Channel Mid



HSDPA V Channel High



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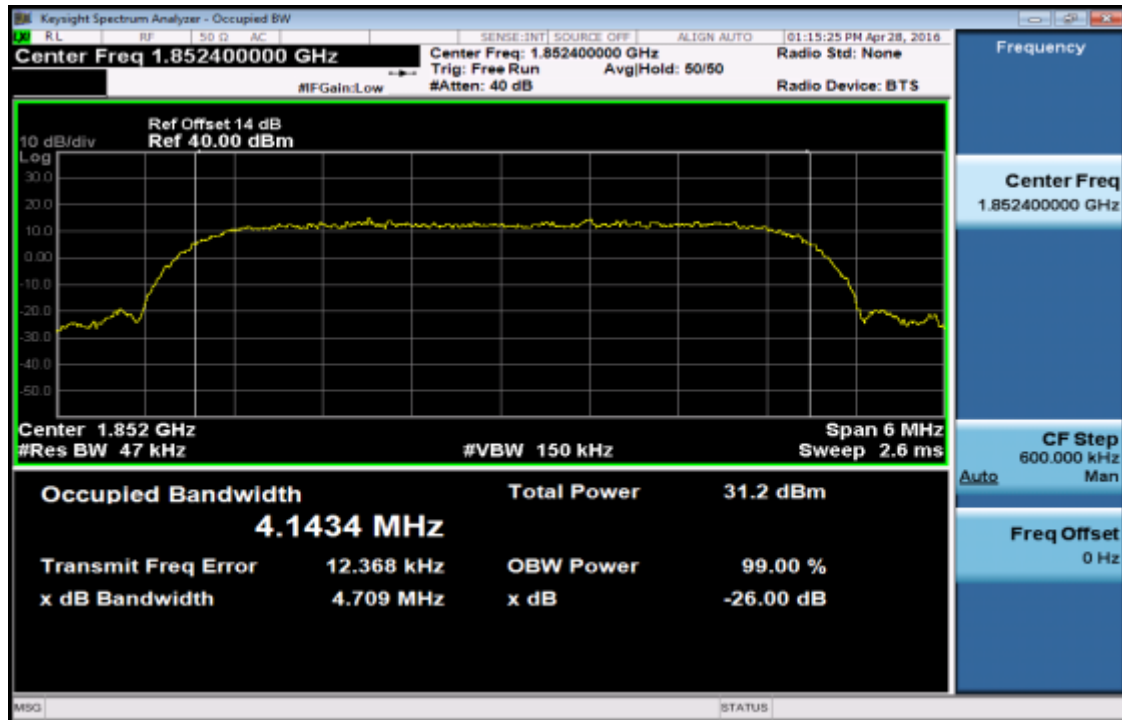
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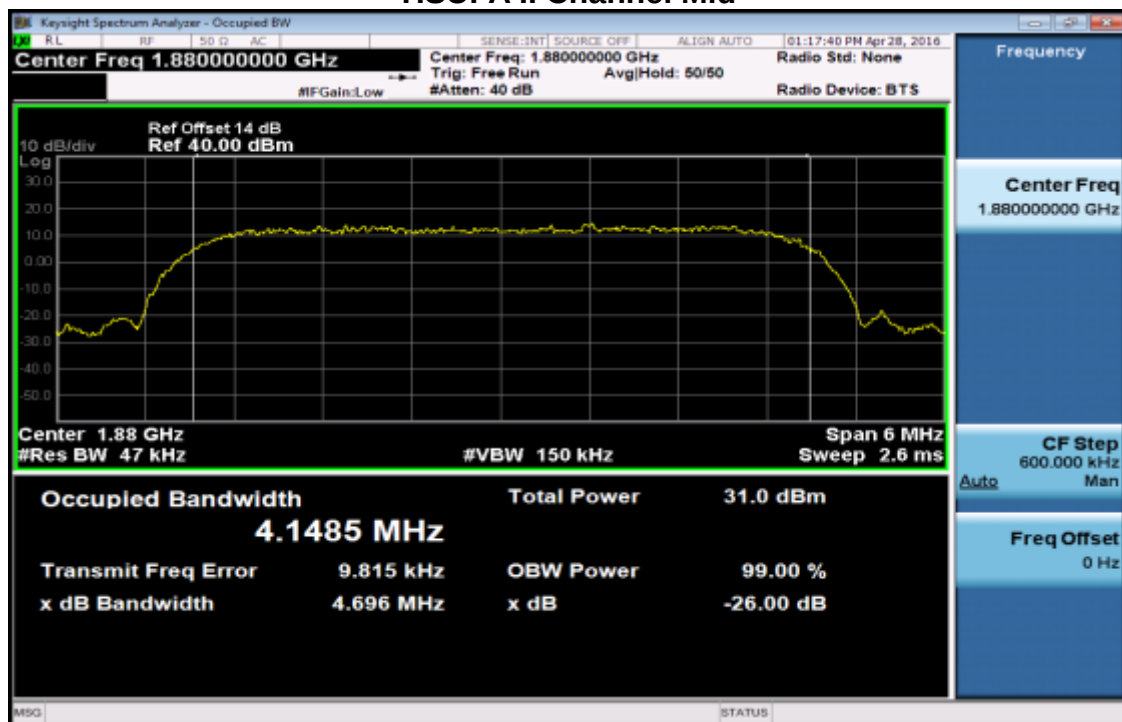
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HSUPA II Channel Low



HSUPA II Channel Mid



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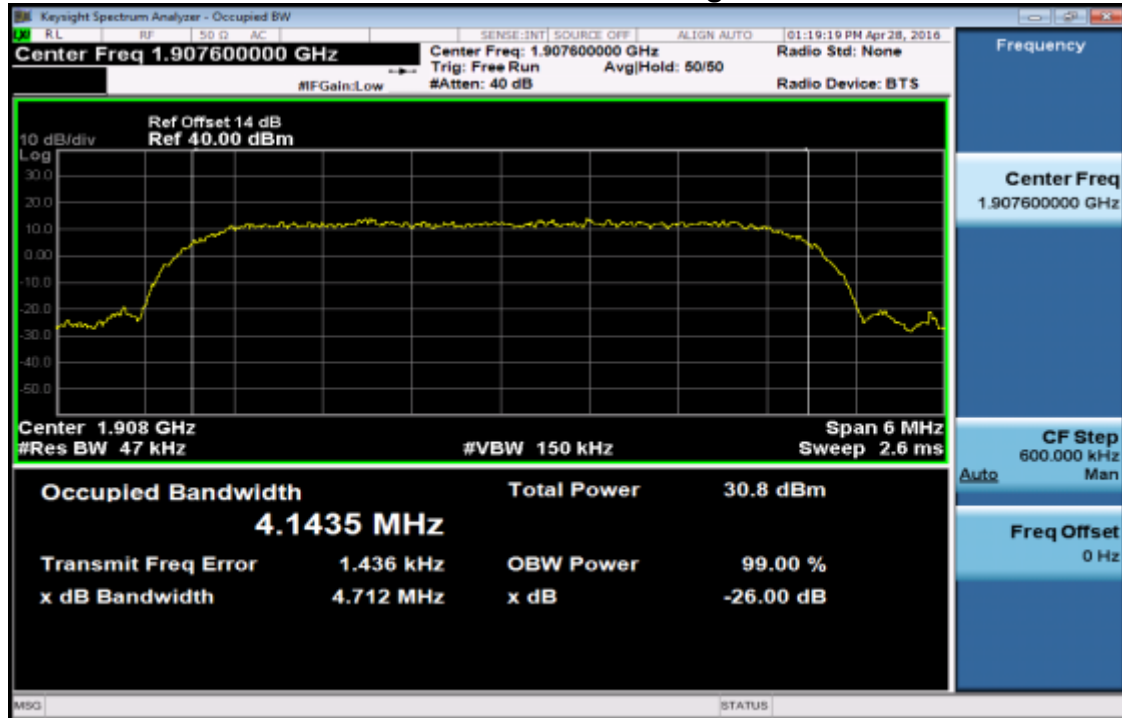
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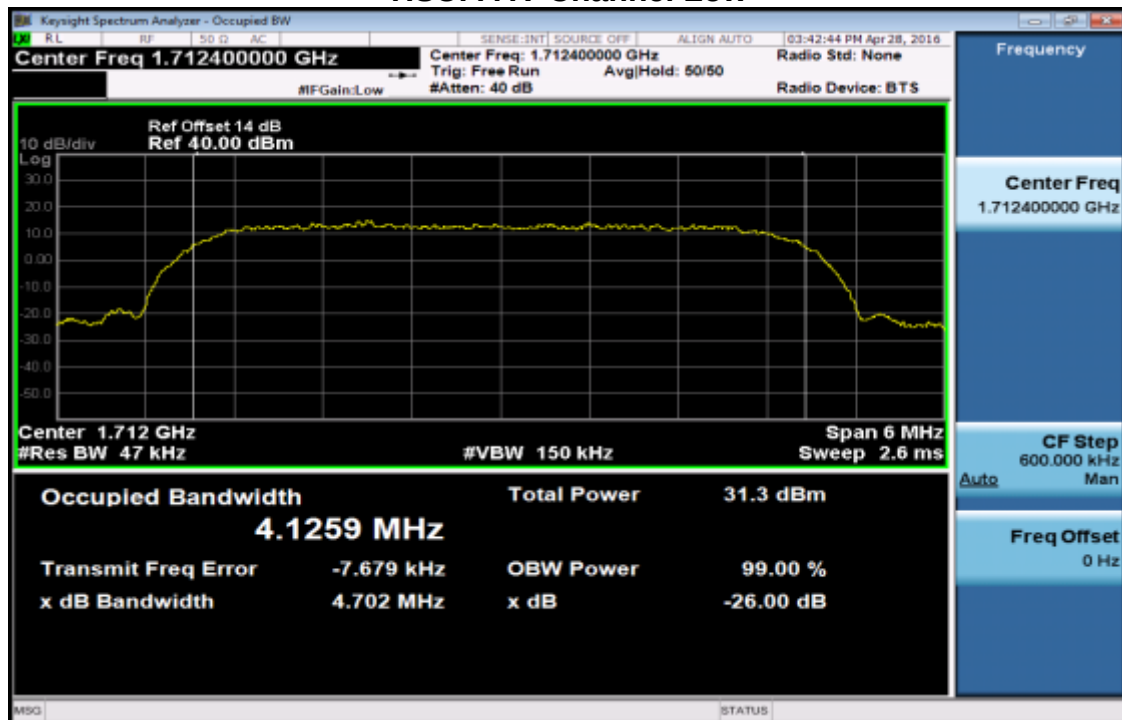
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HSUPA II Channel High



HSUPA IV Channel Low



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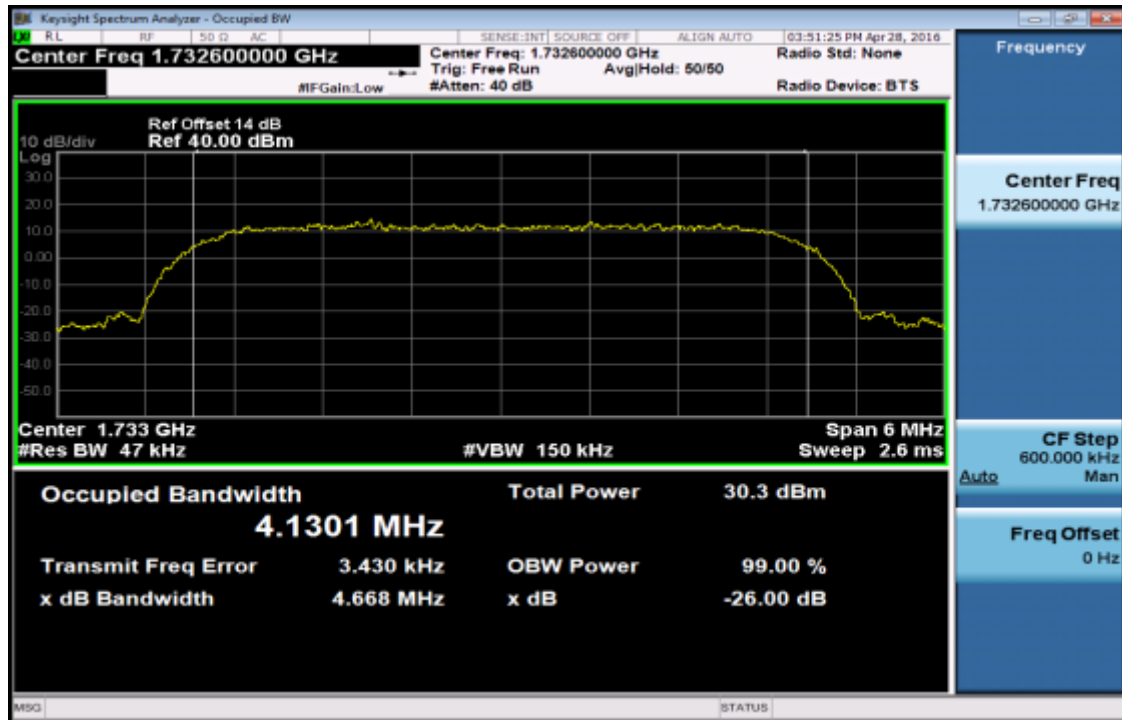
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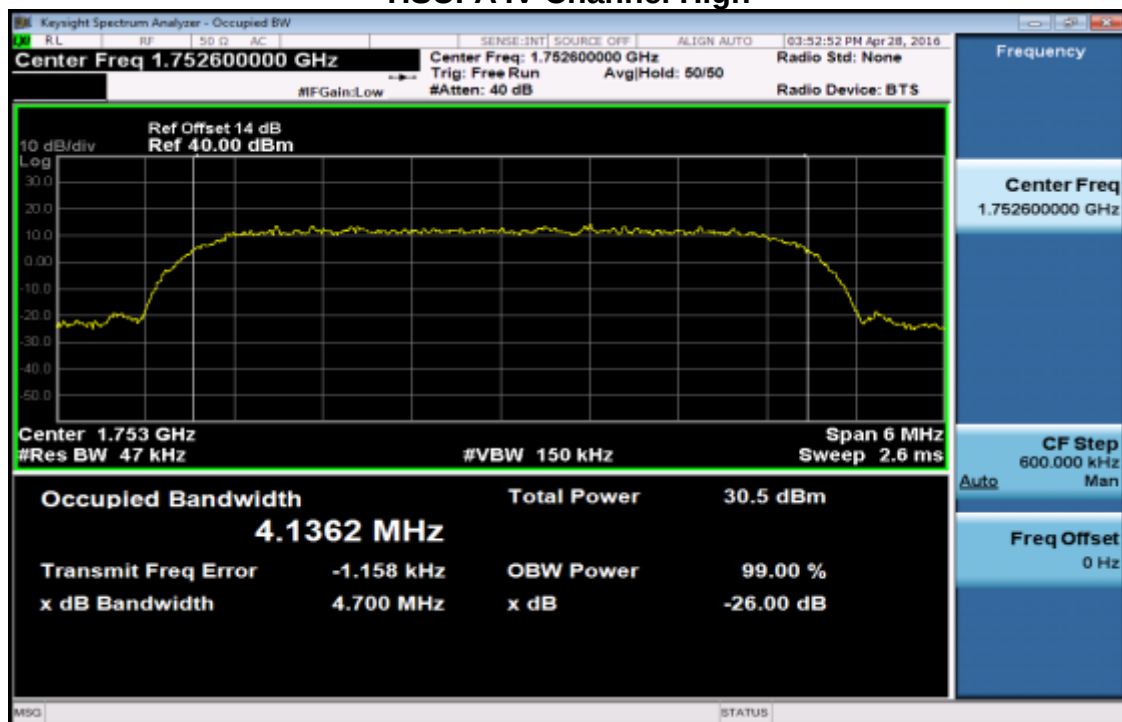
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HSUPA IV Channel Mid



HSUPA IV Channel High



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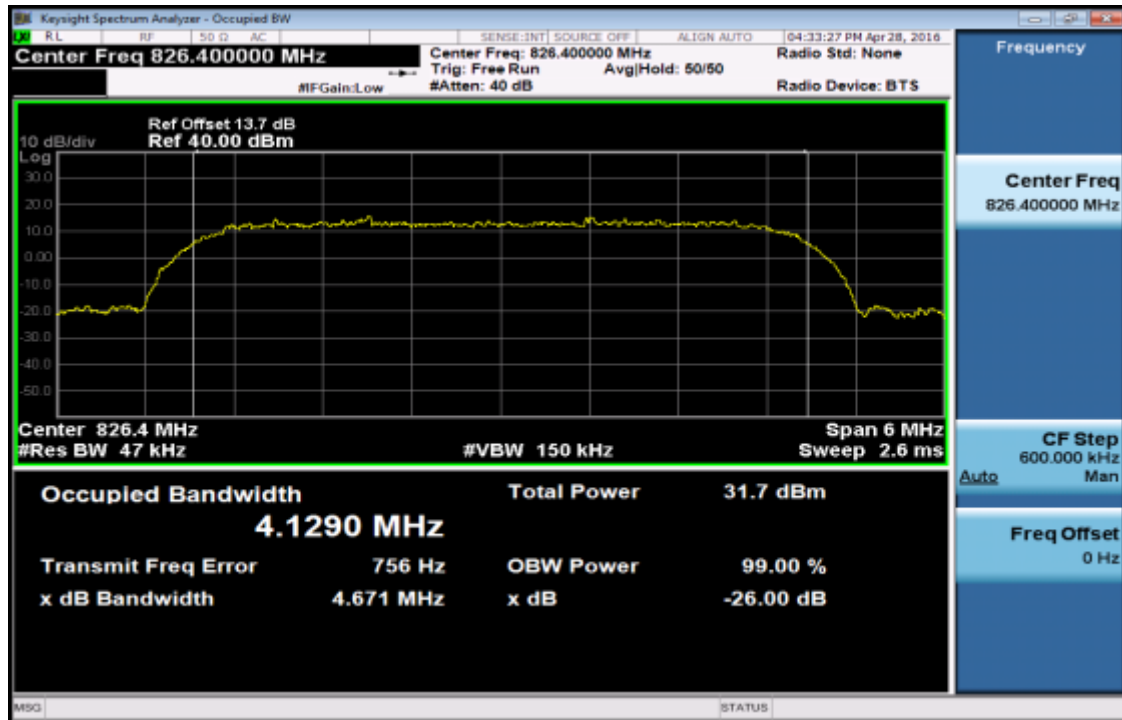
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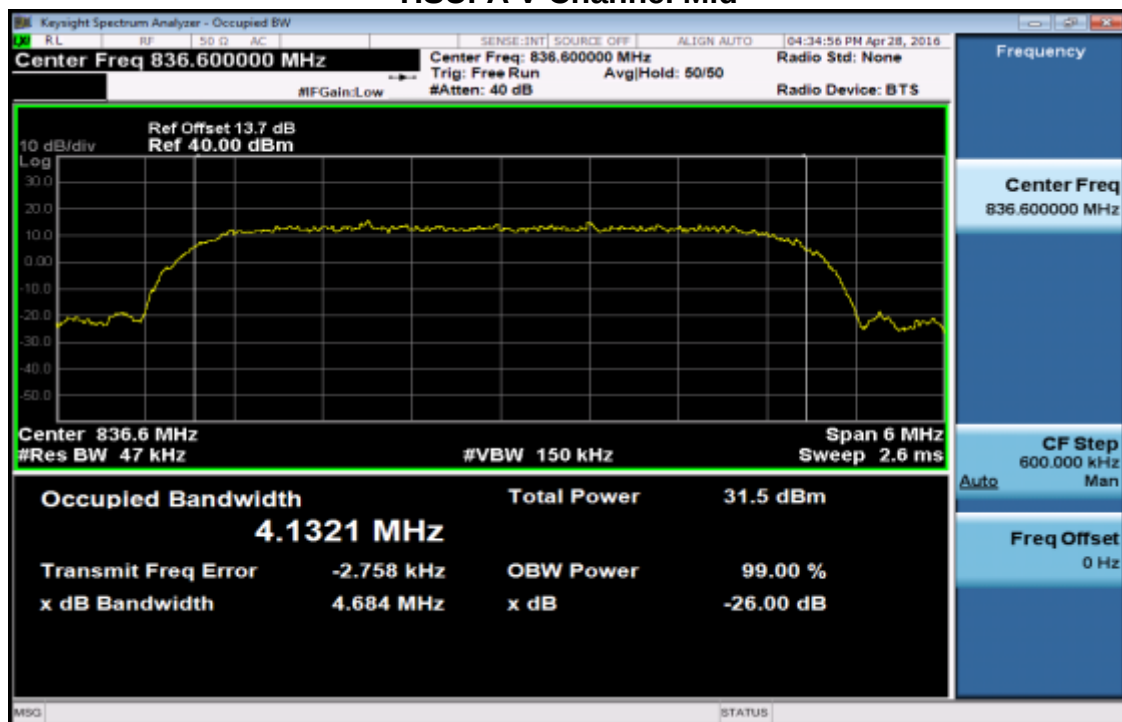
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HSUPA V Channel Low



HSUPA V Channel Mid



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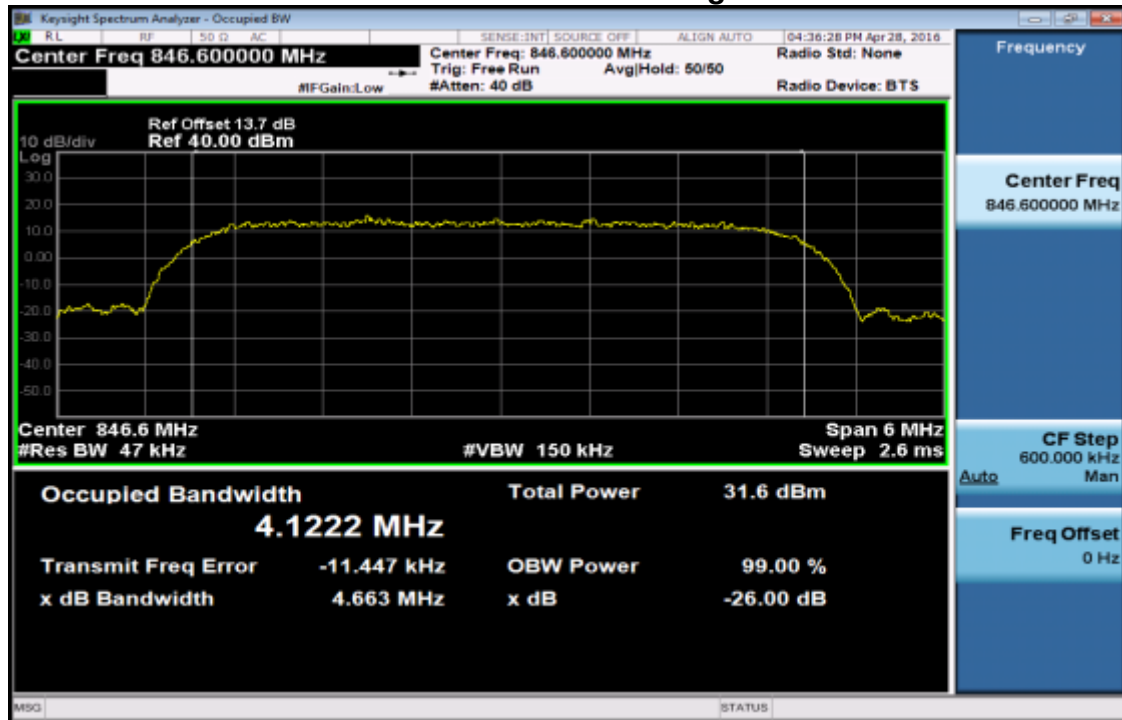
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HSUPA V Channel High



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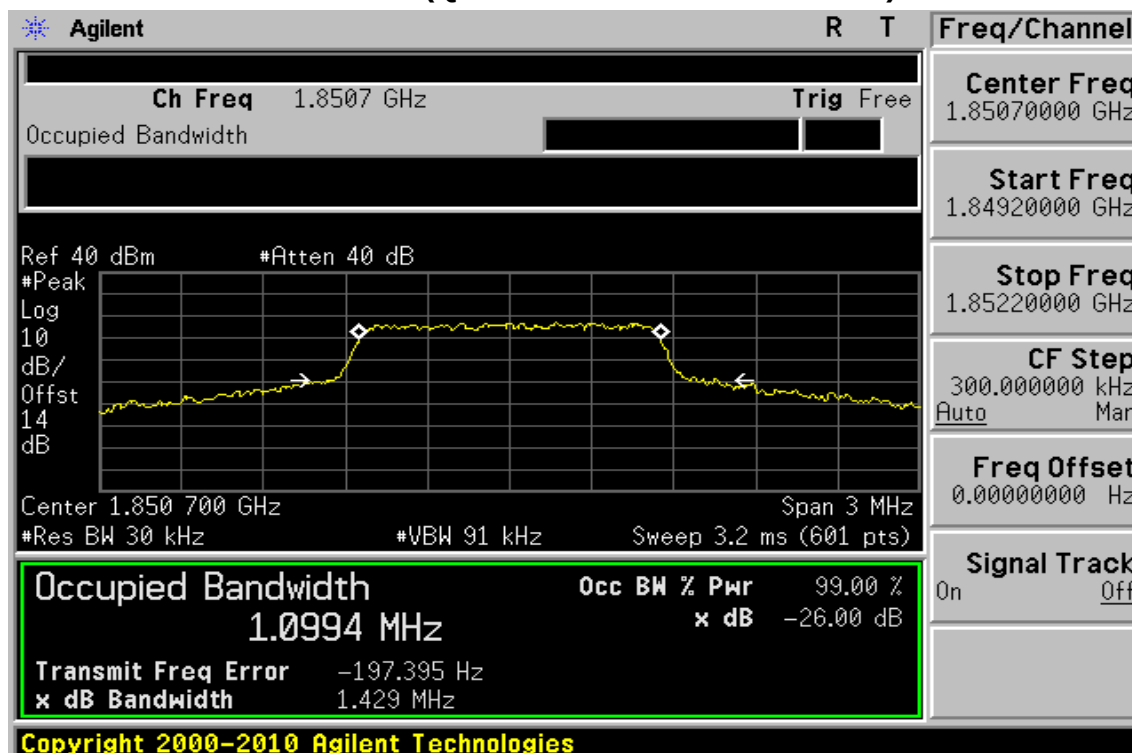
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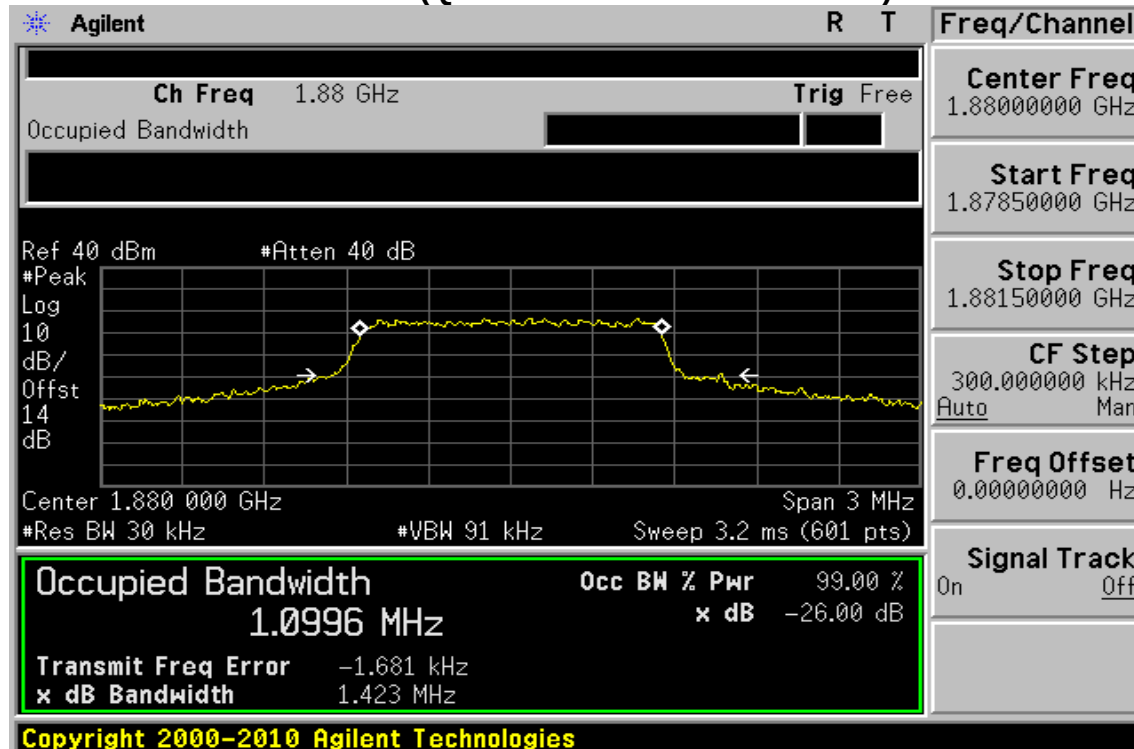
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1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Mid



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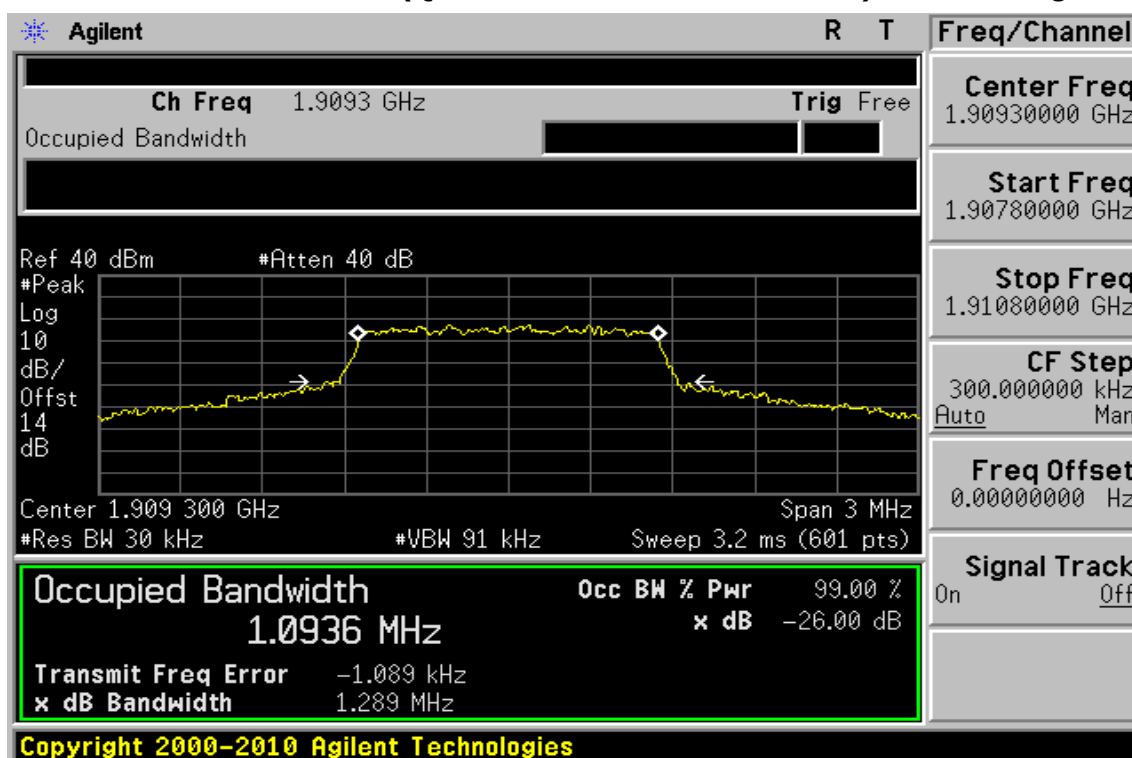
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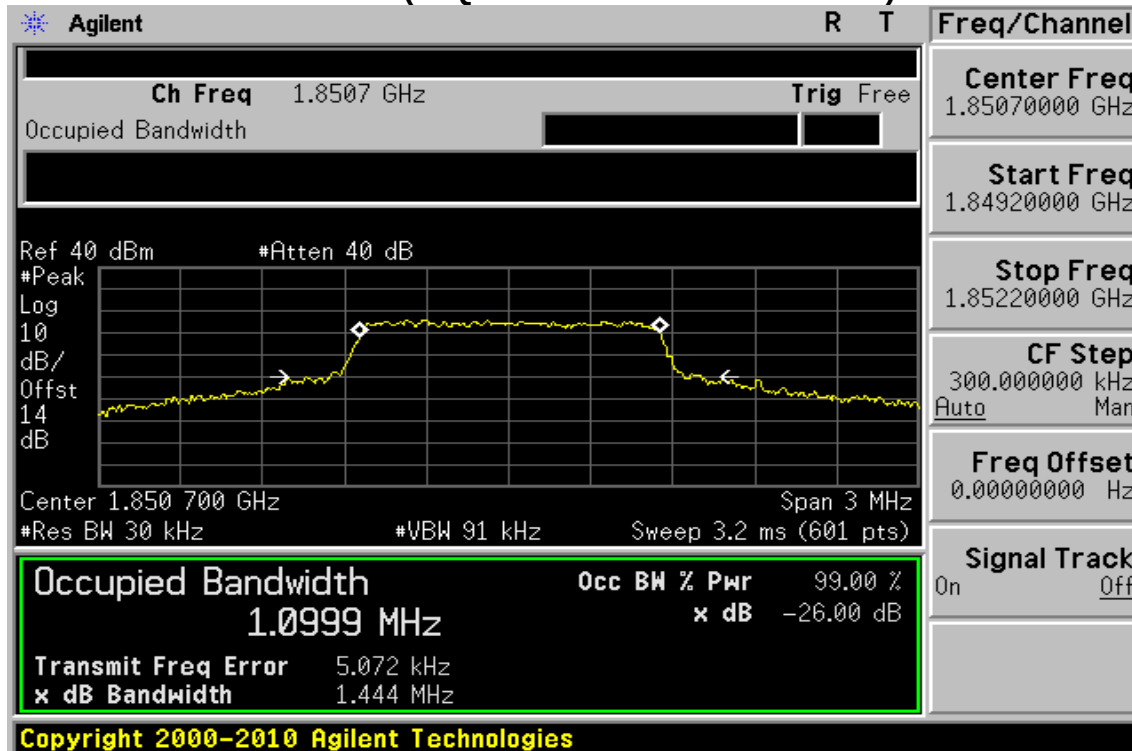
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1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel High



1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Low



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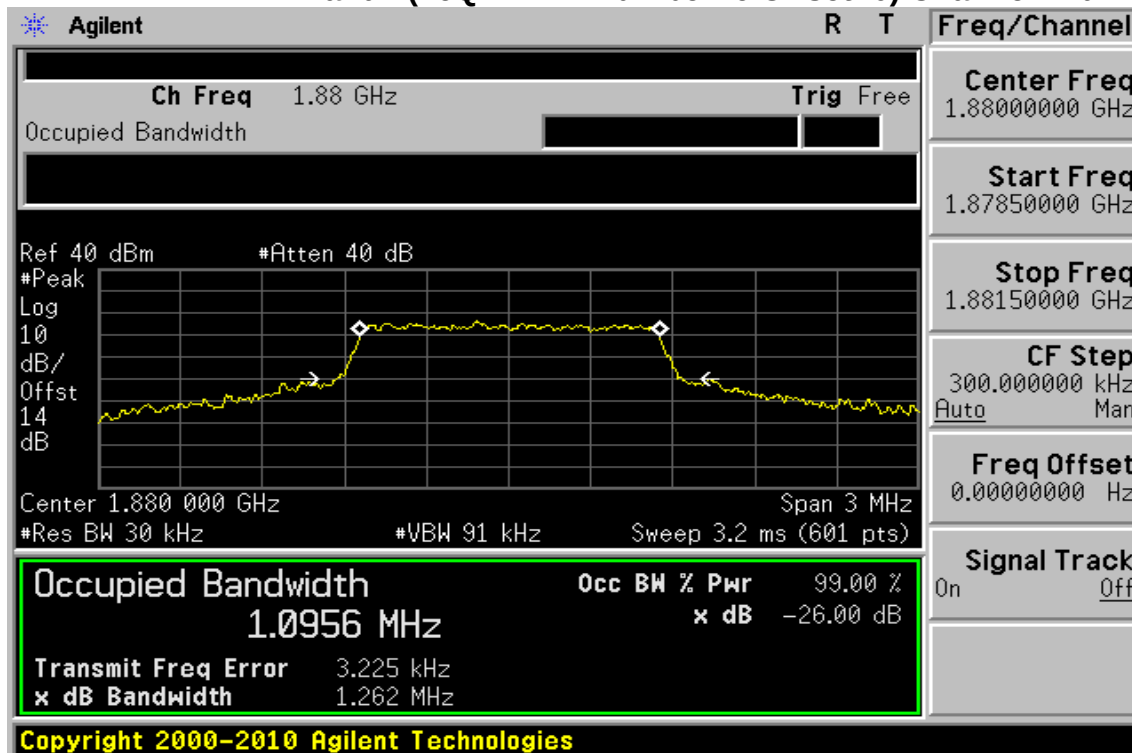
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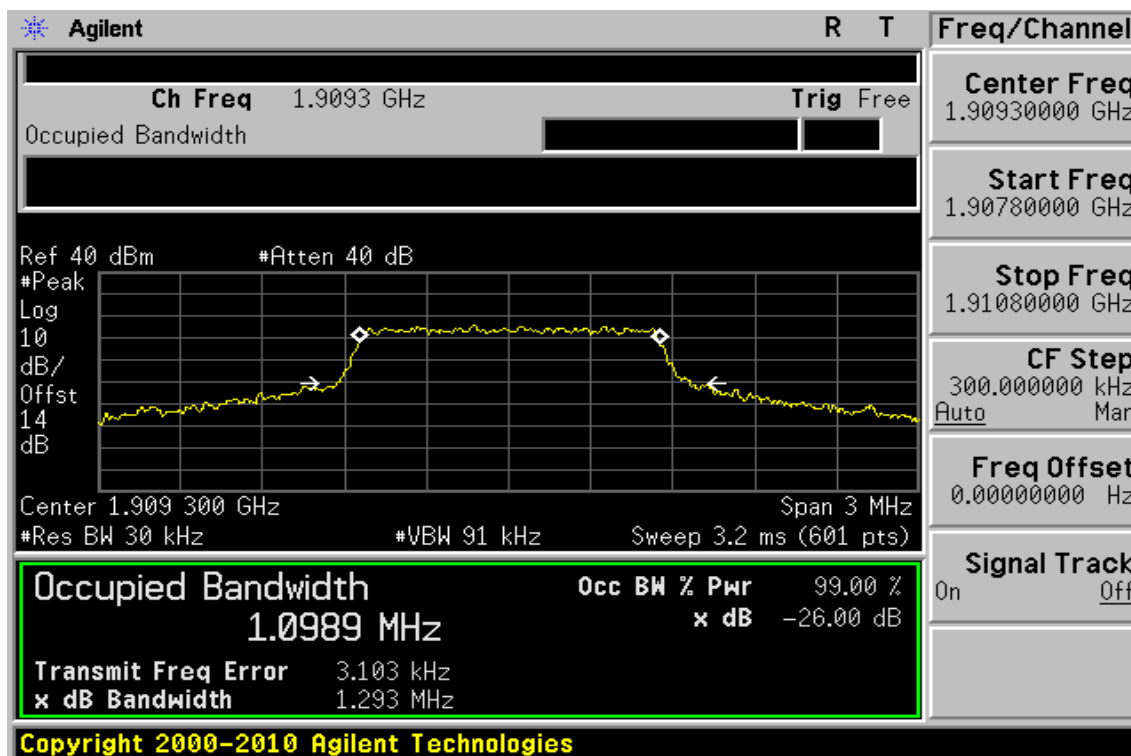
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1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Mid



1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel High



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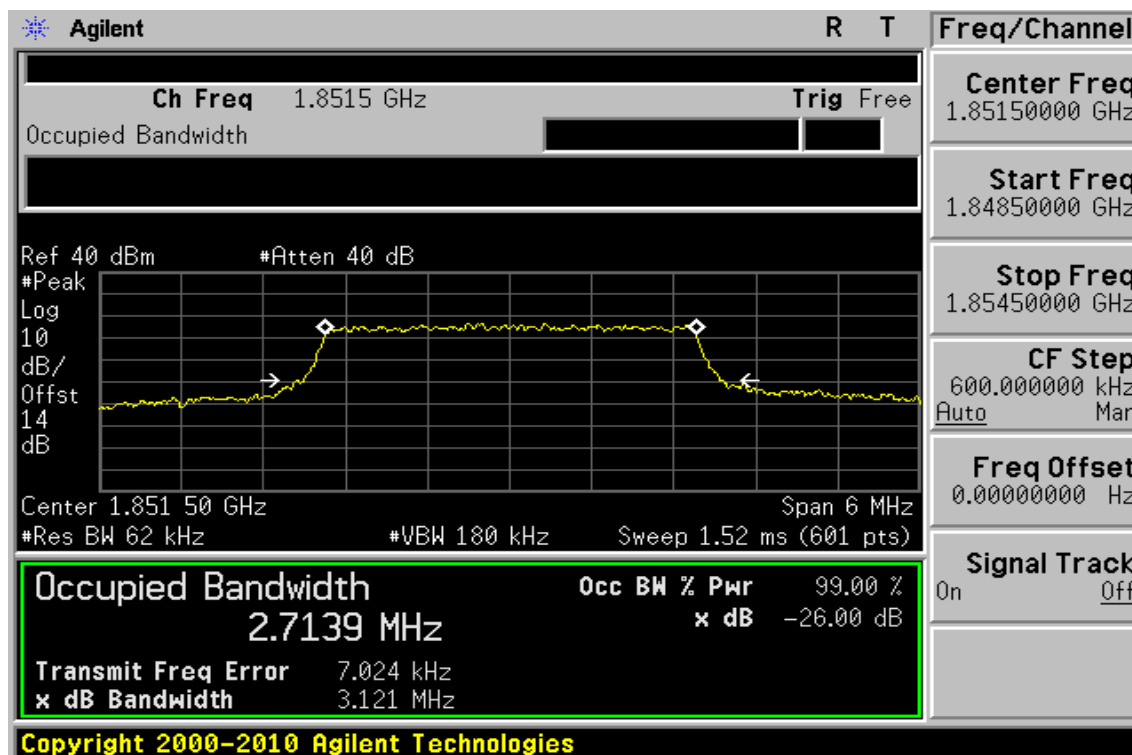
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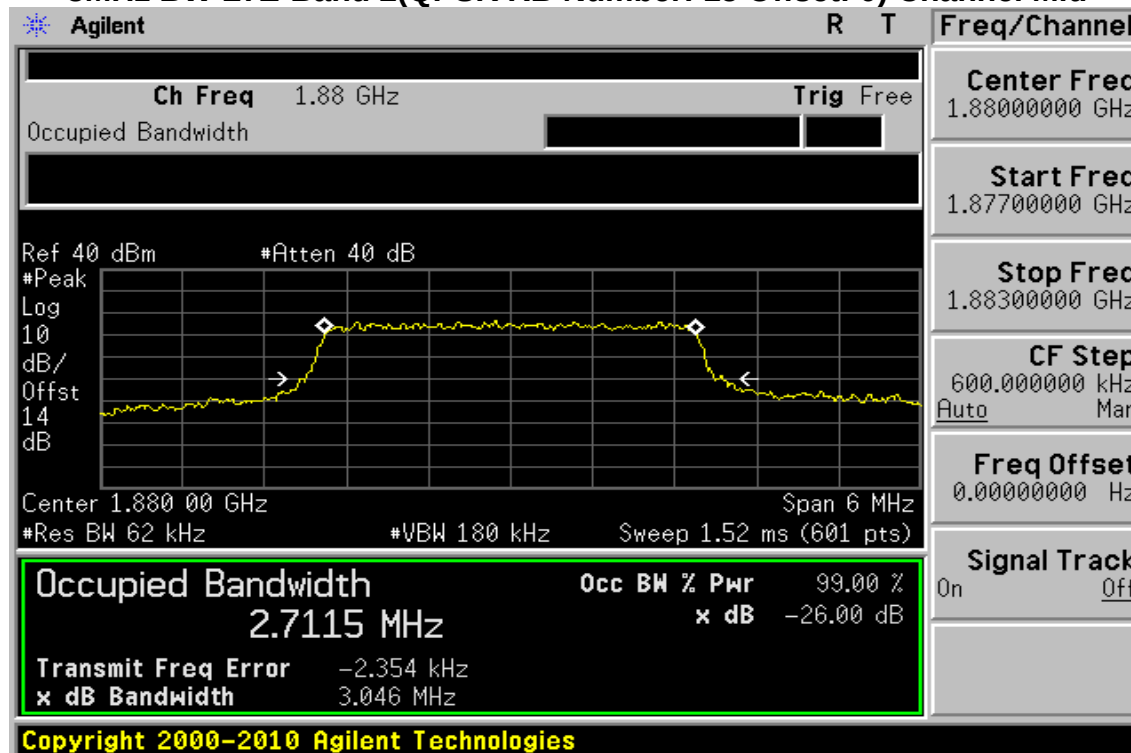
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3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Low



3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Mid



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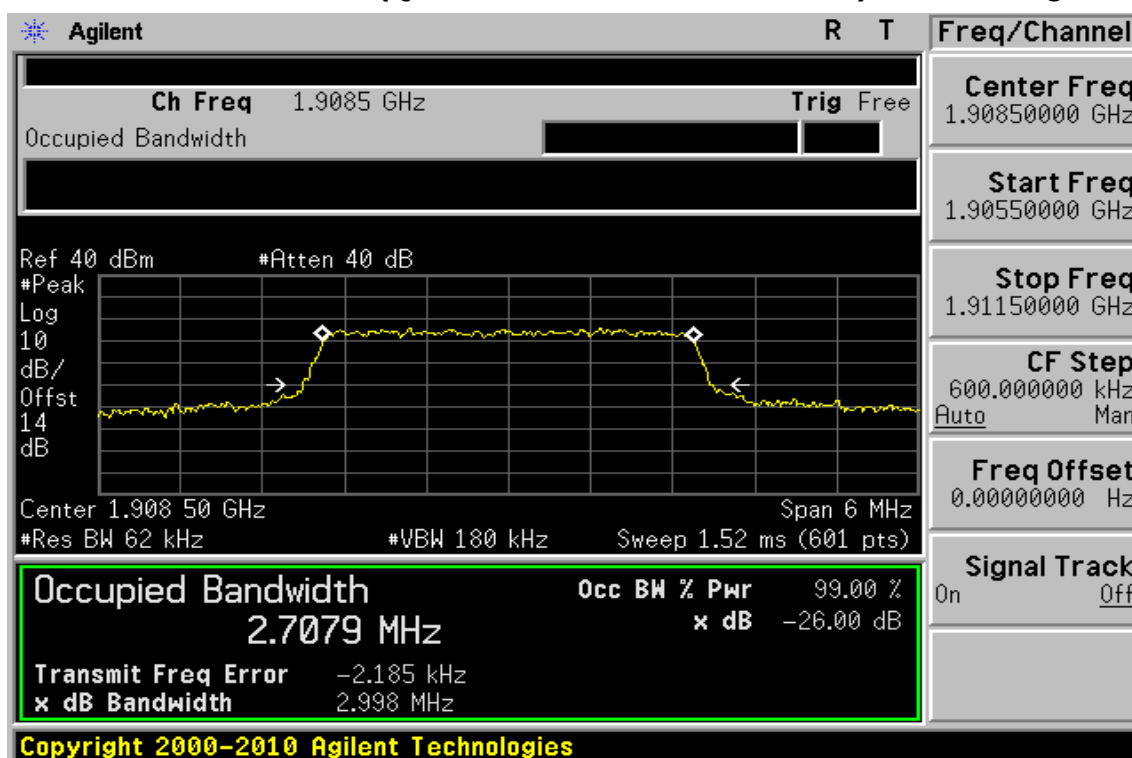
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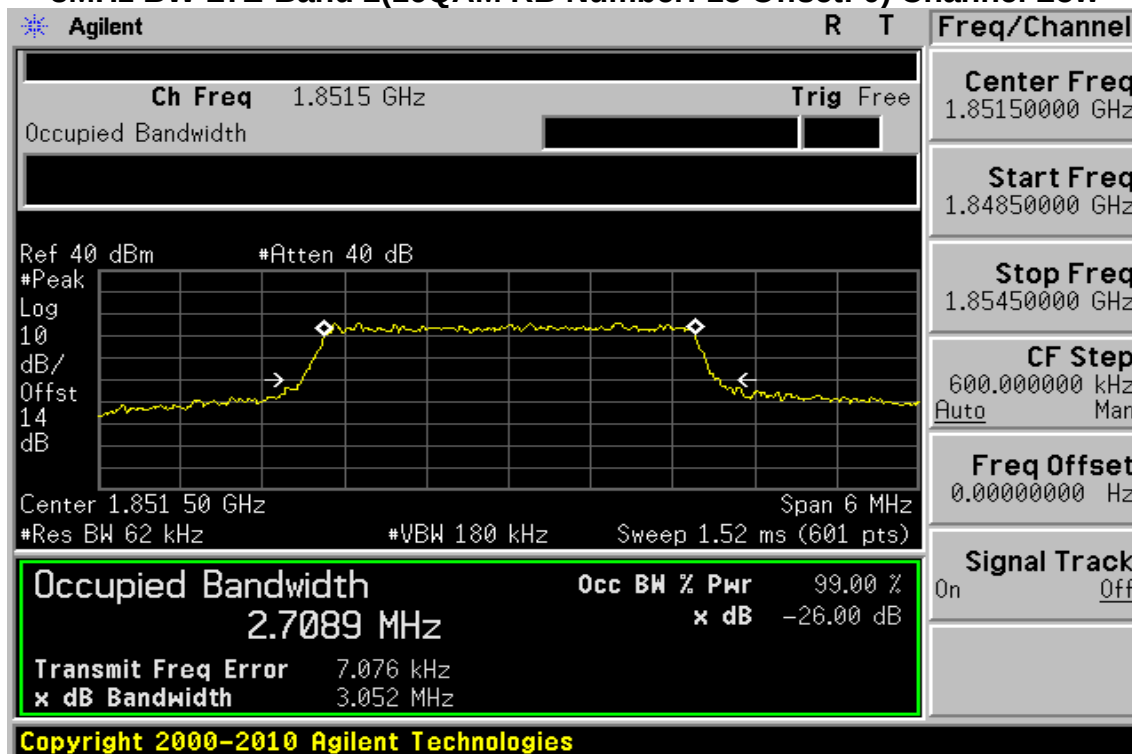
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3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel High



3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Low



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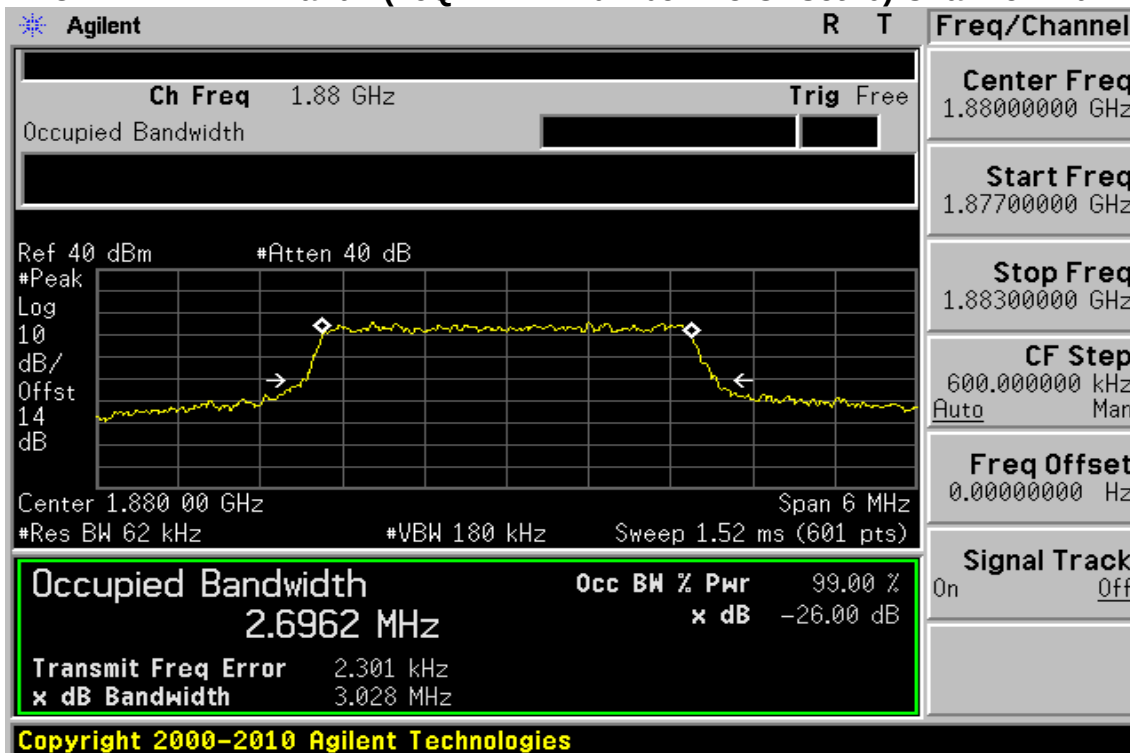
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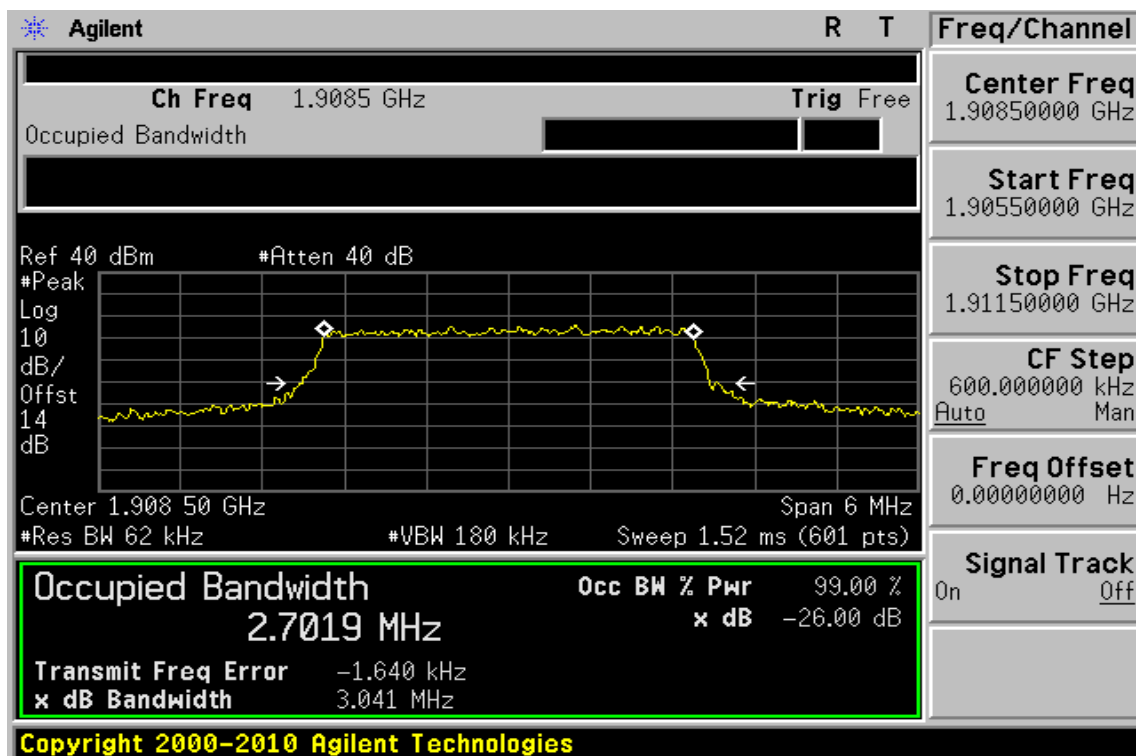
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3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Mid



3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel High



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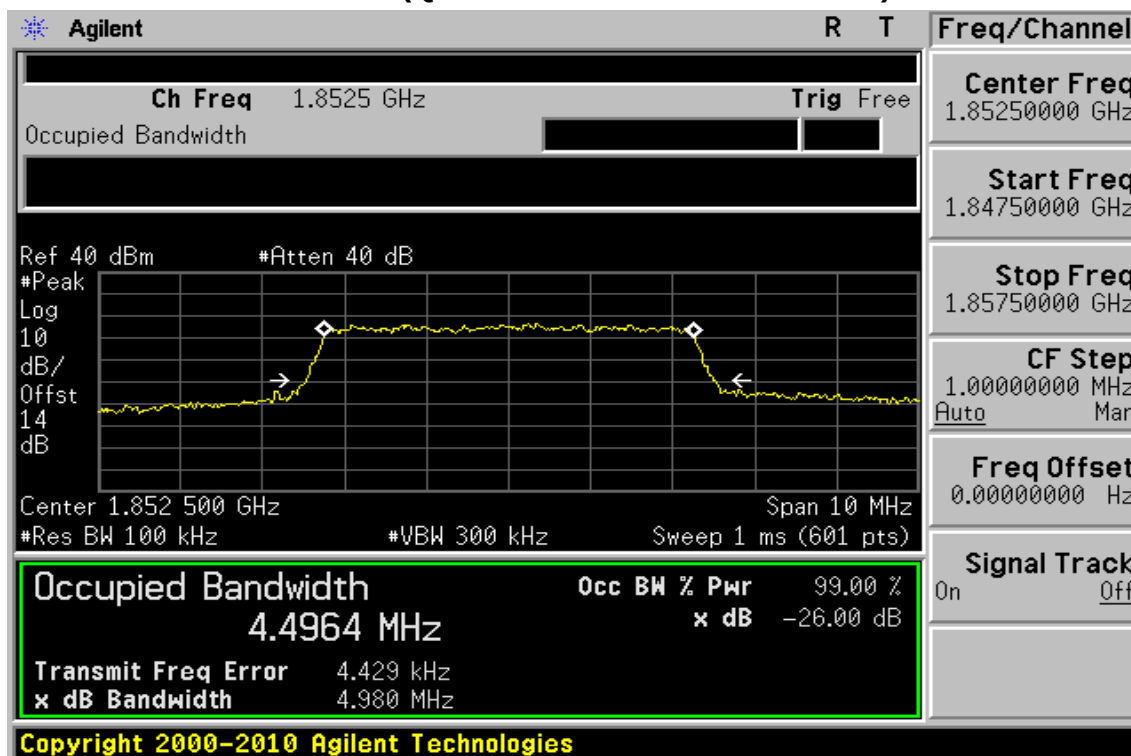
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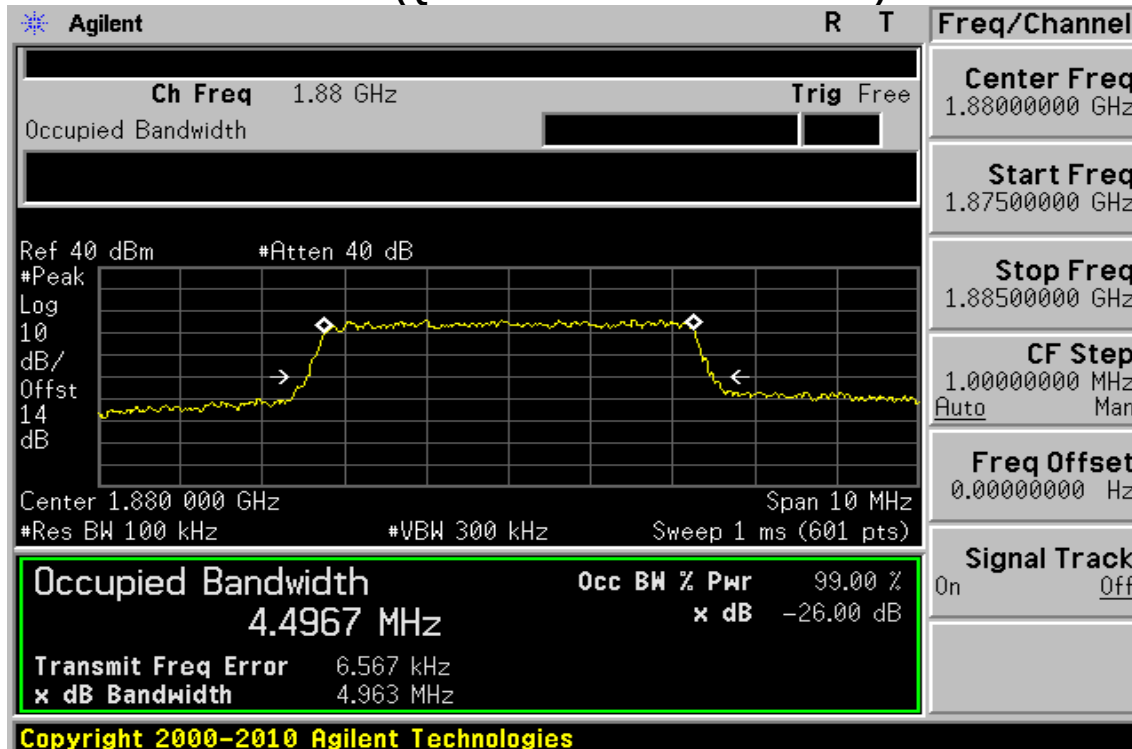
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5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Mid



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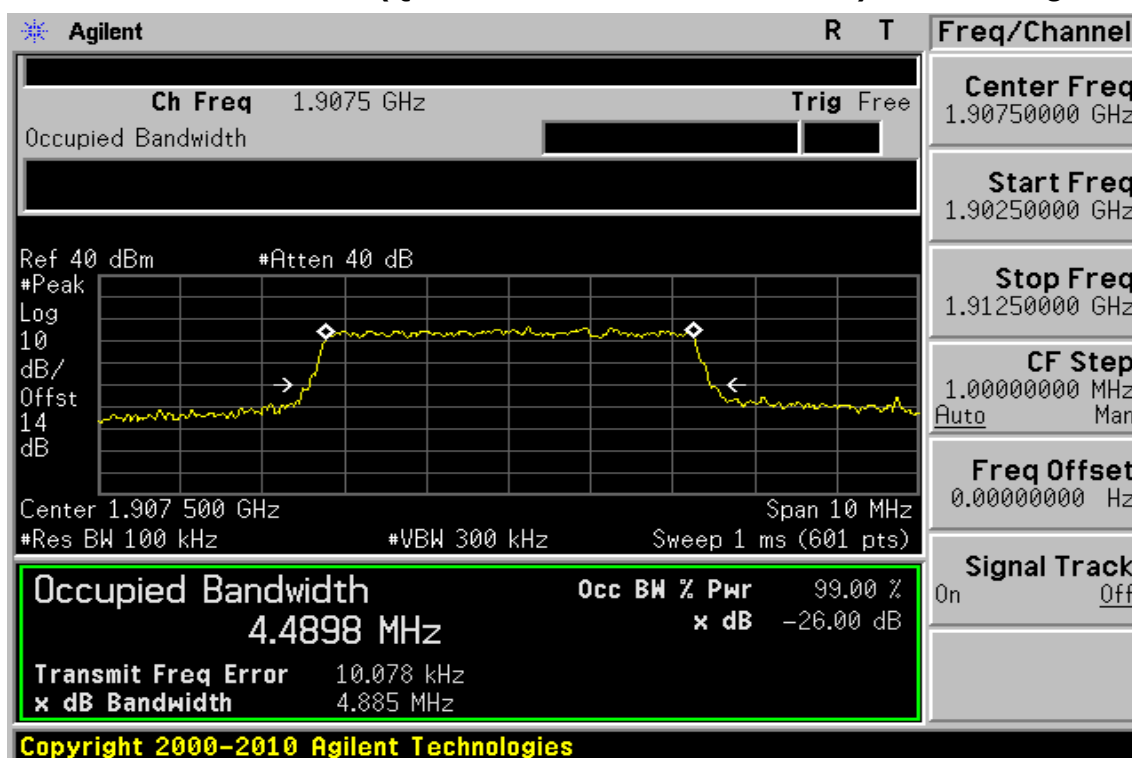
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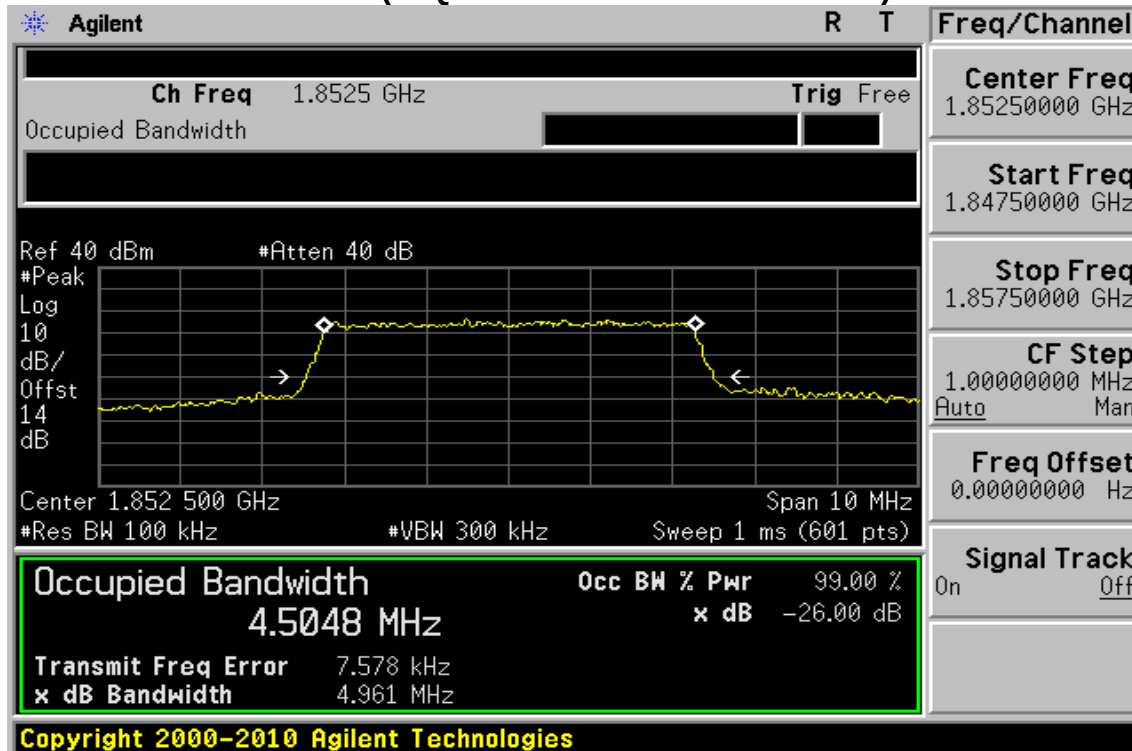
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5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Low



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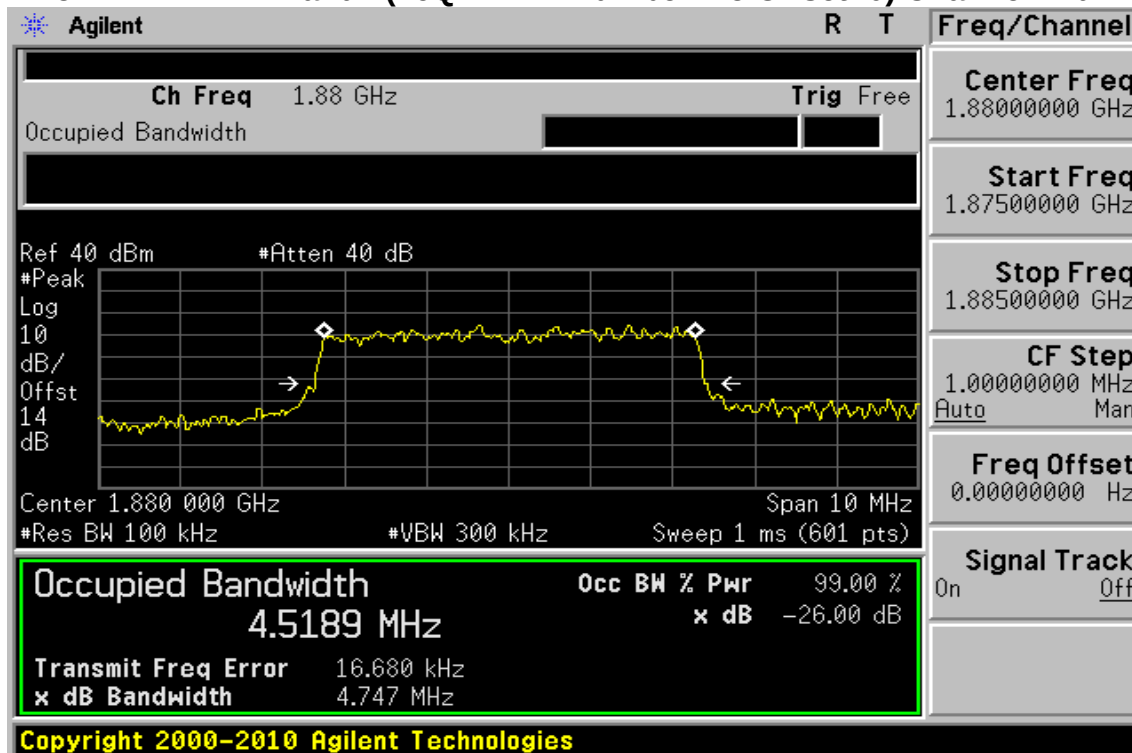
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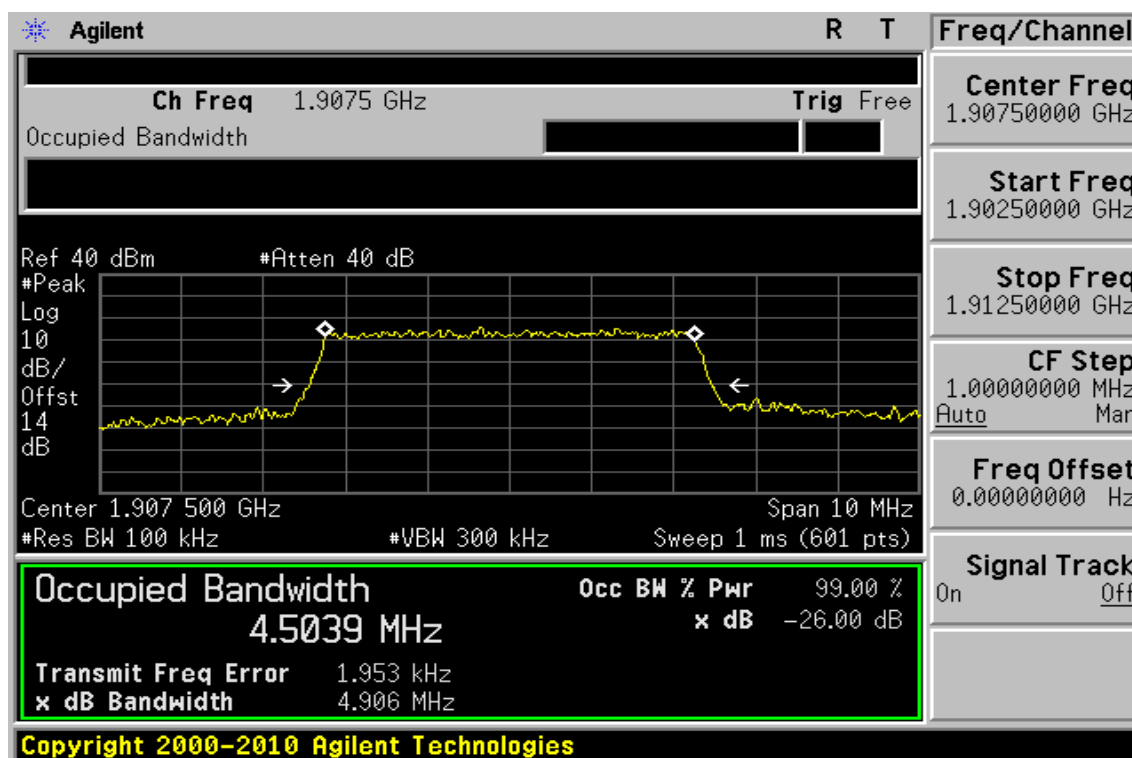
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5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel High



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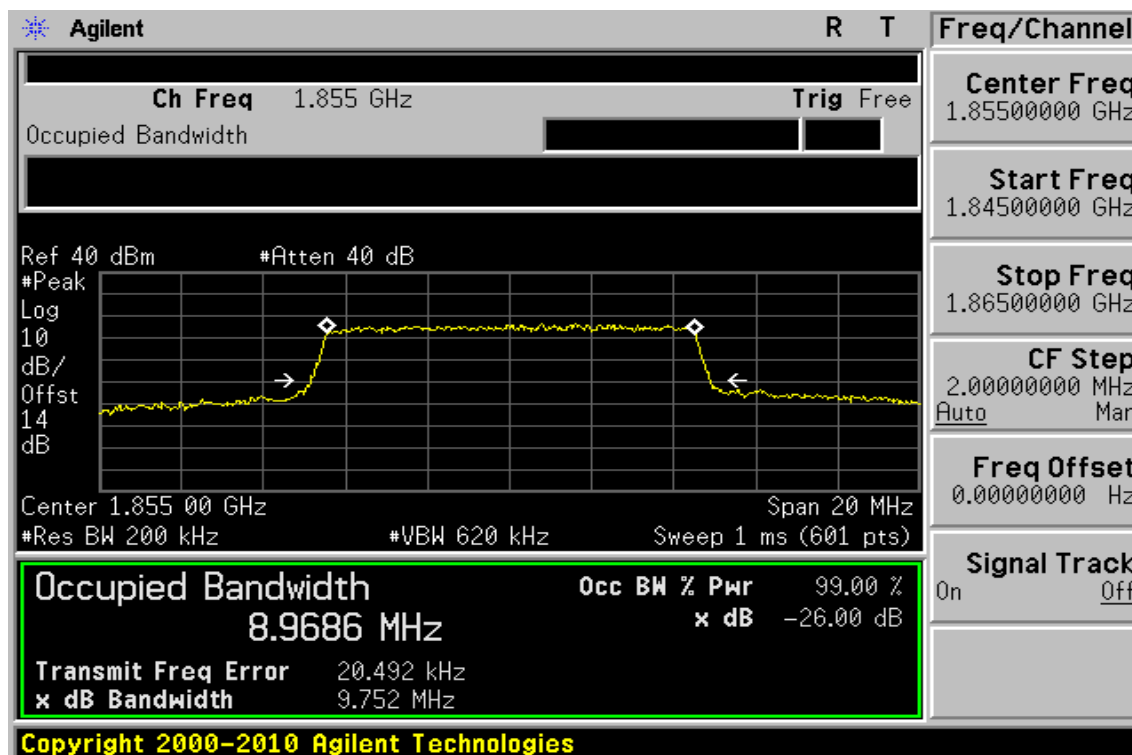
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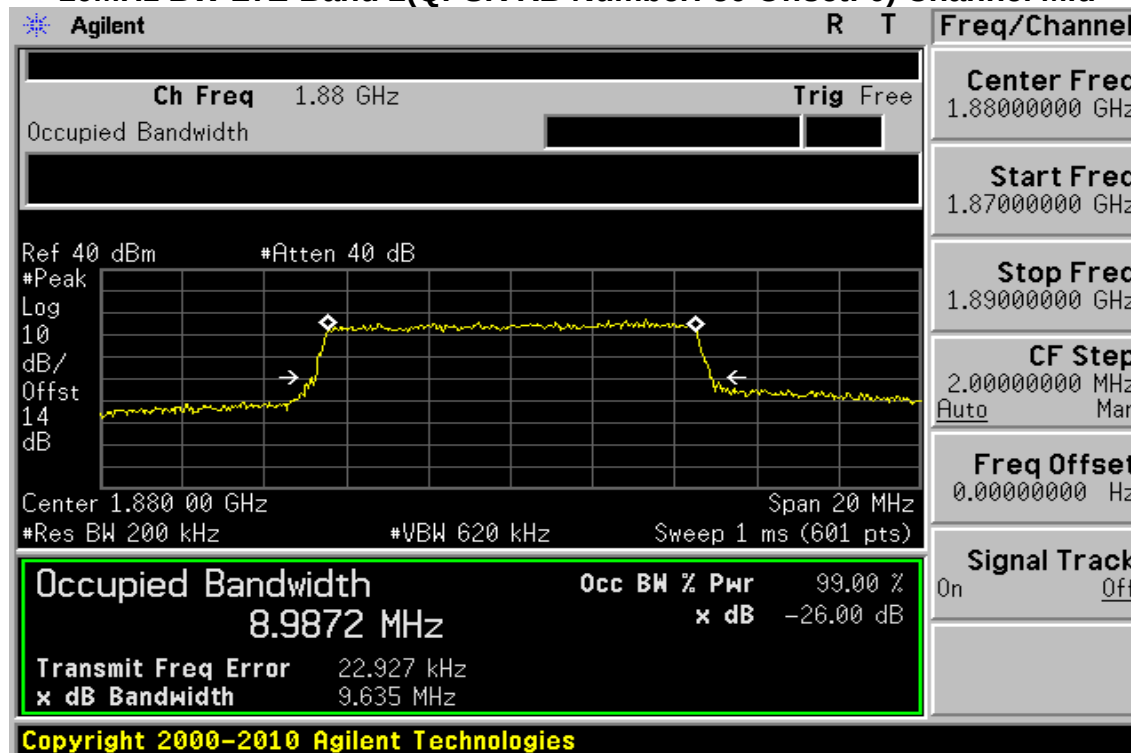
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10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Mid



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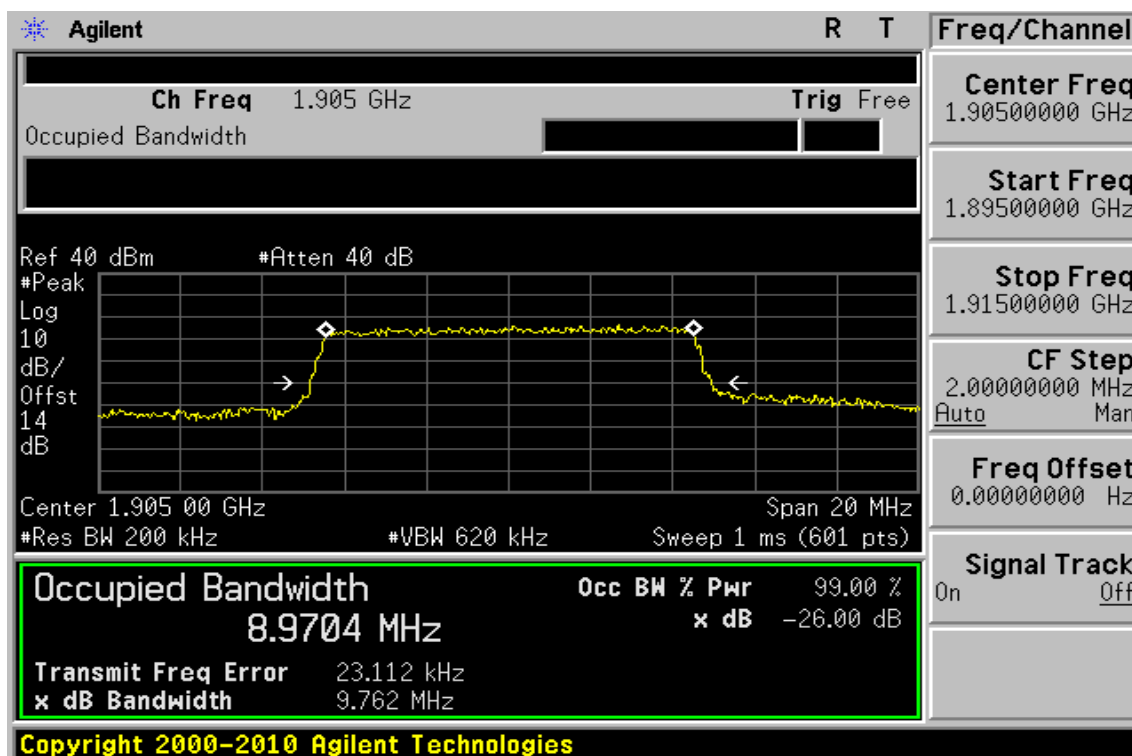
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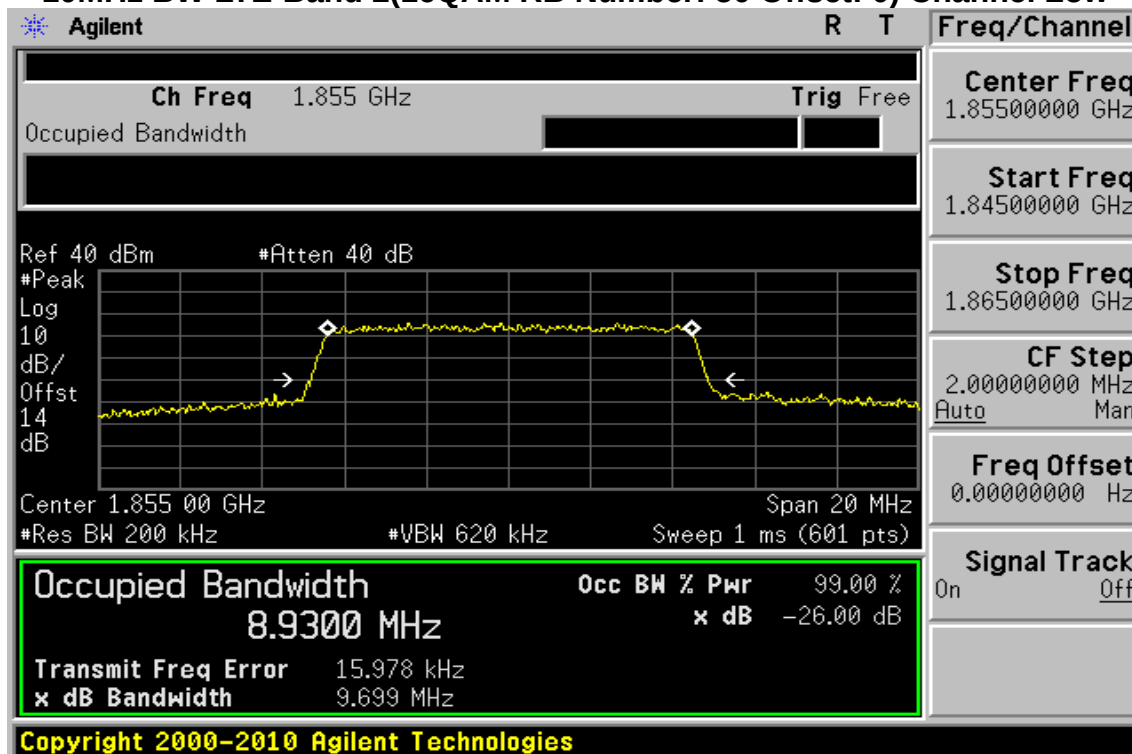
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10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Low



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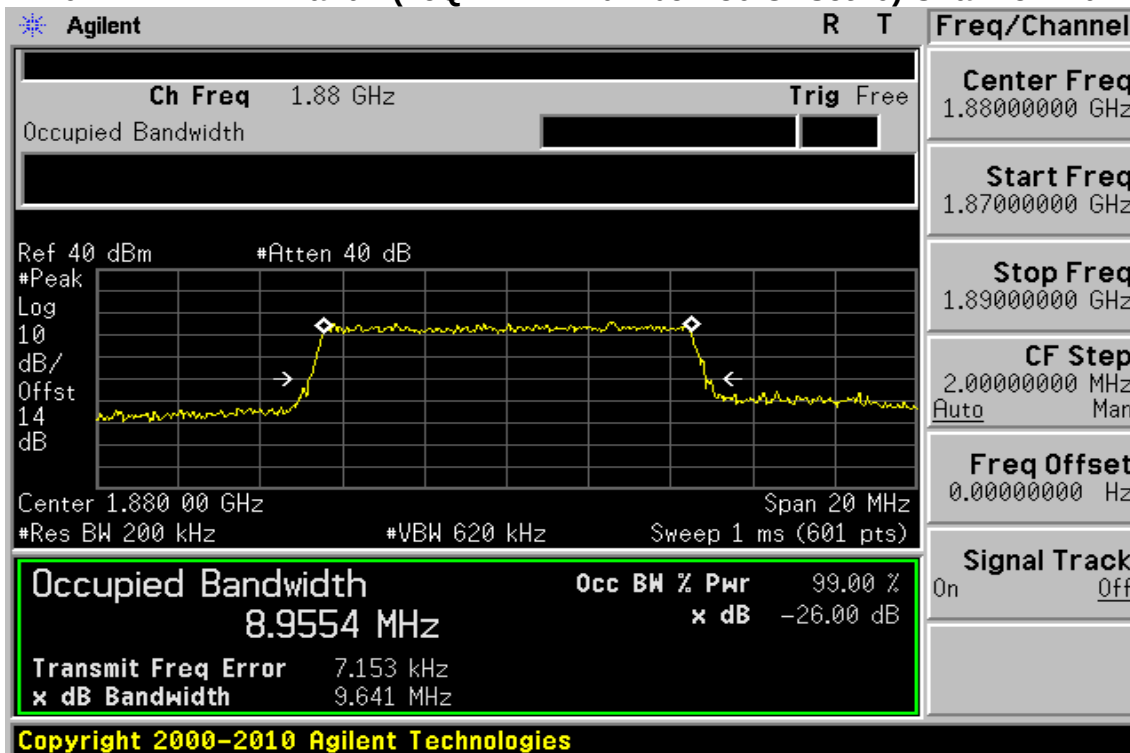
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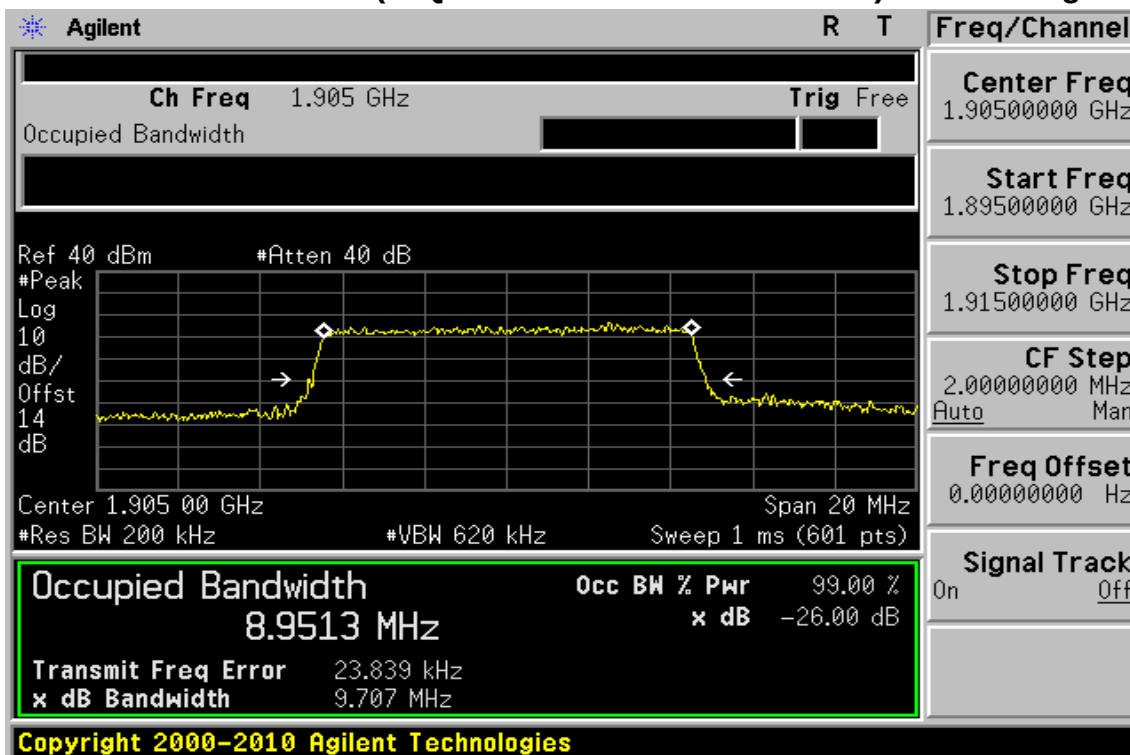
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10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel High



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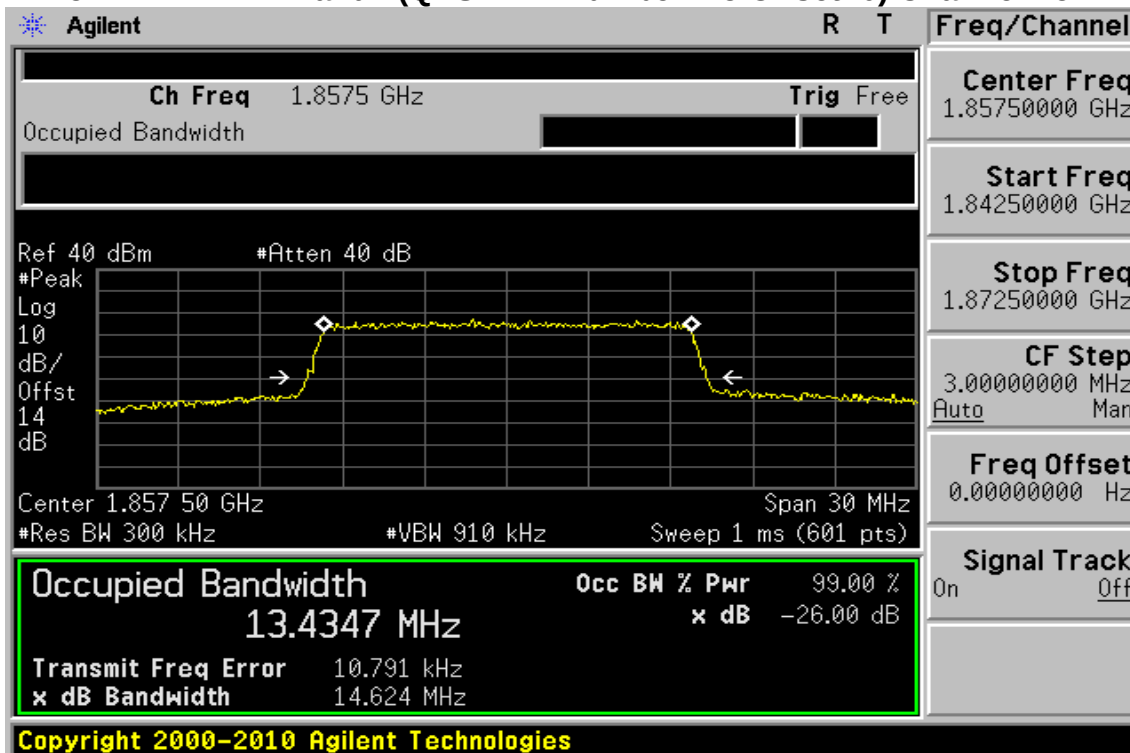
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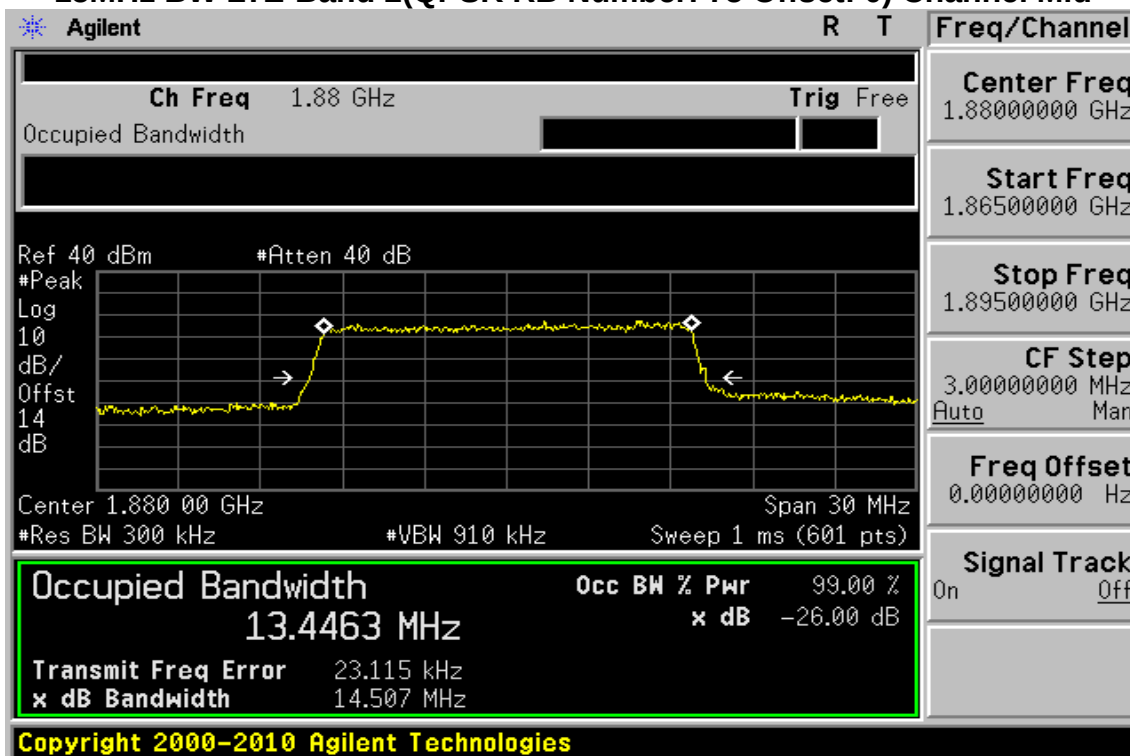
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15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Mid



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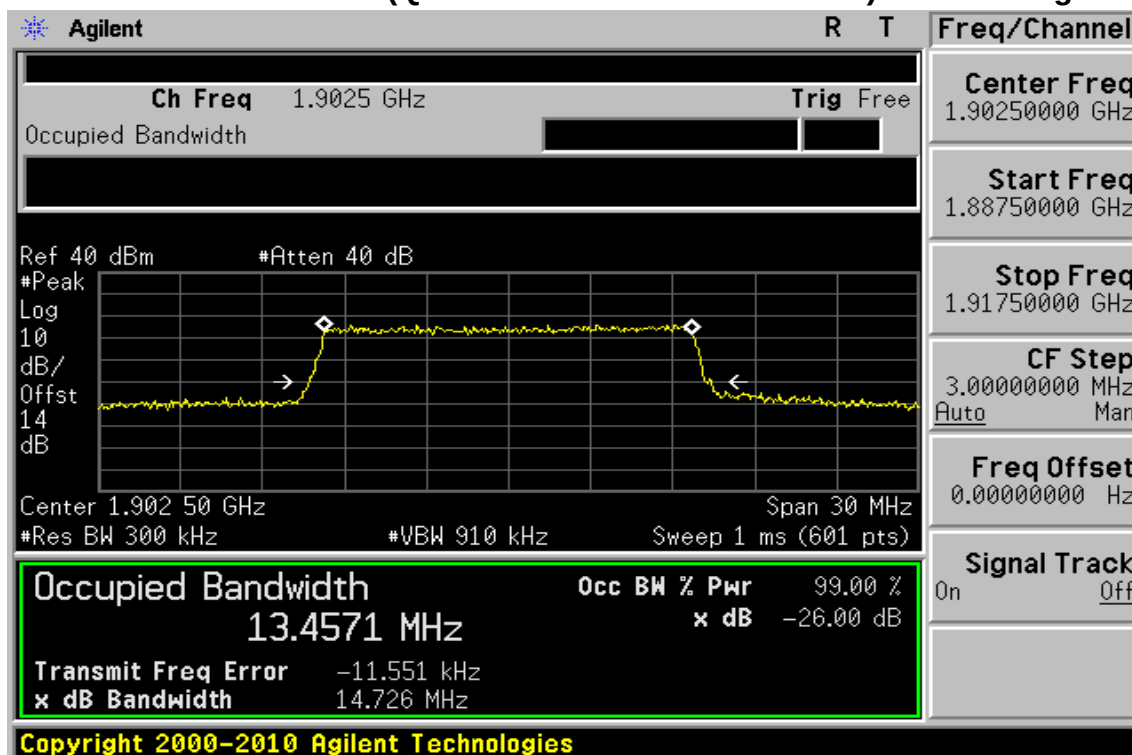
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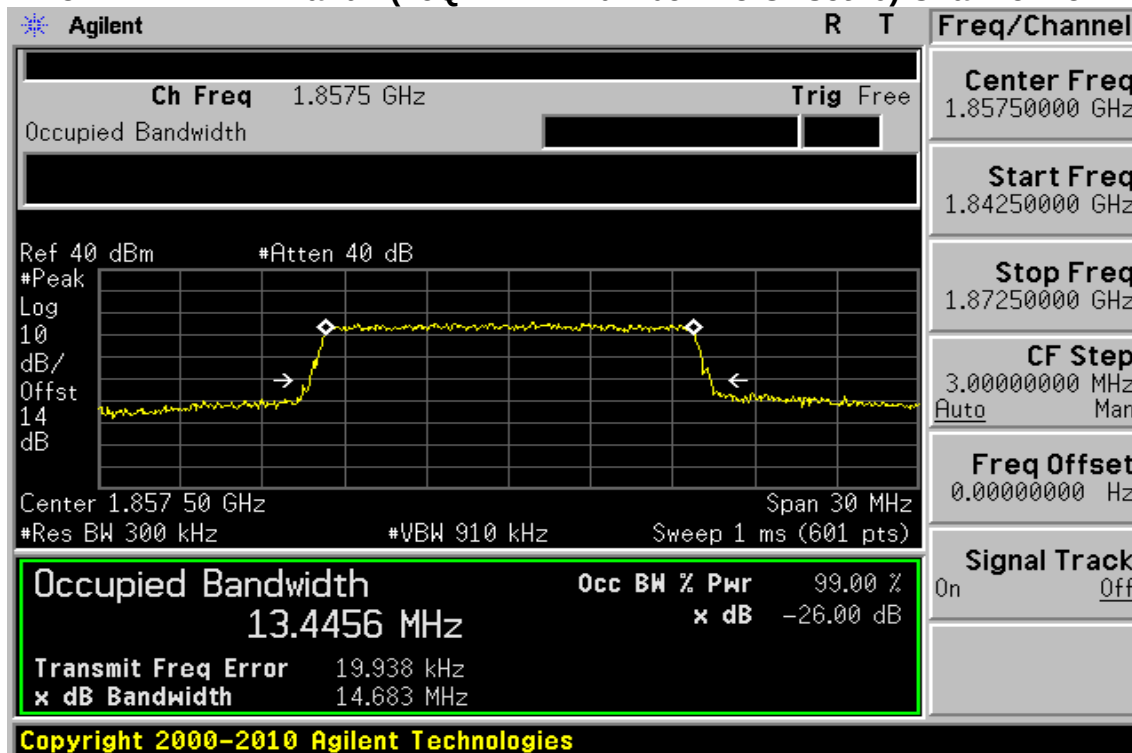
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15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel High



15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Low



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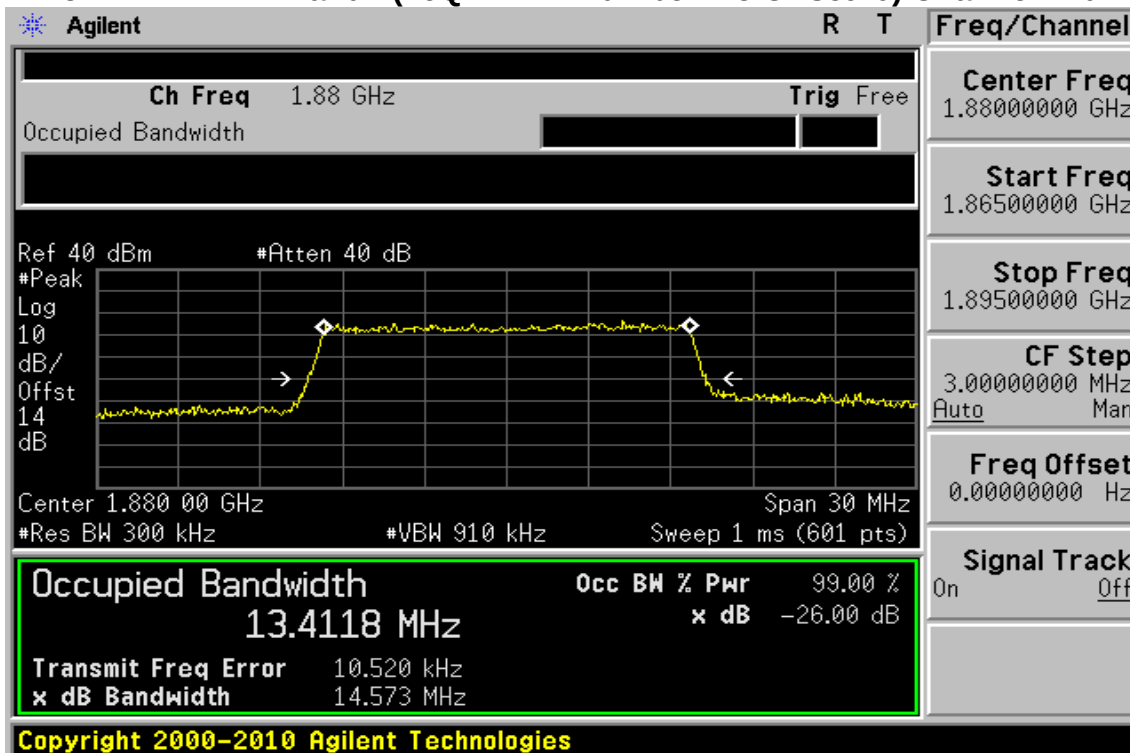
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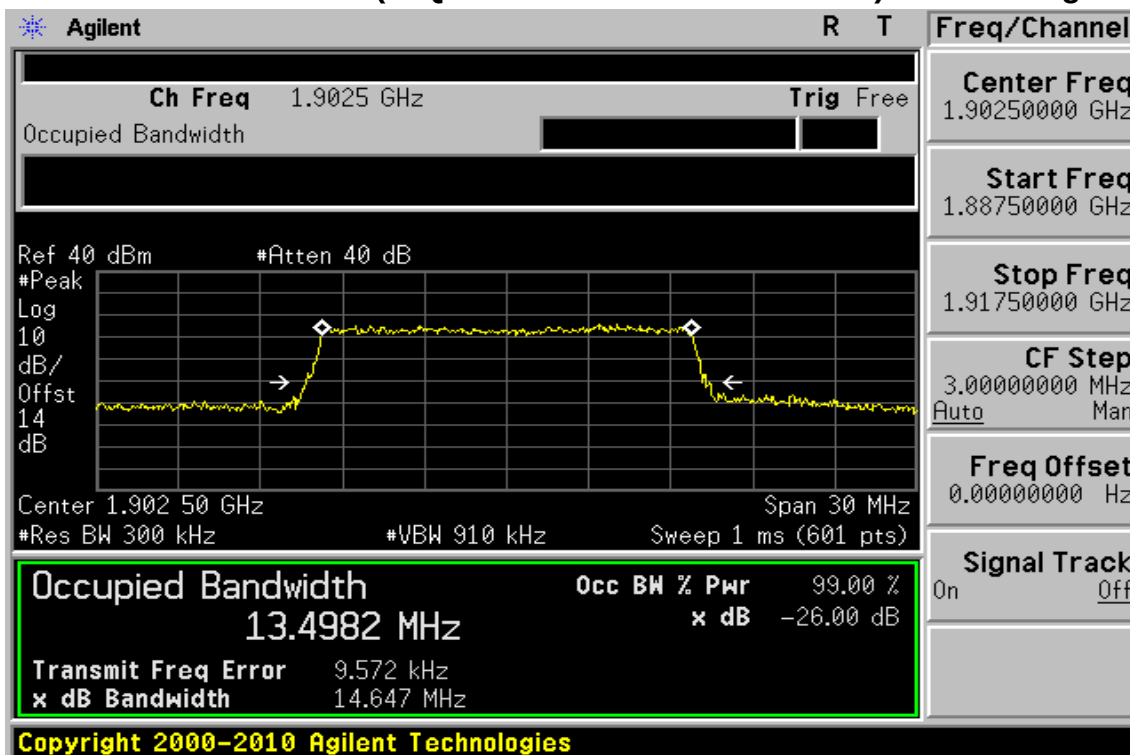
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15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Mid



15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel High



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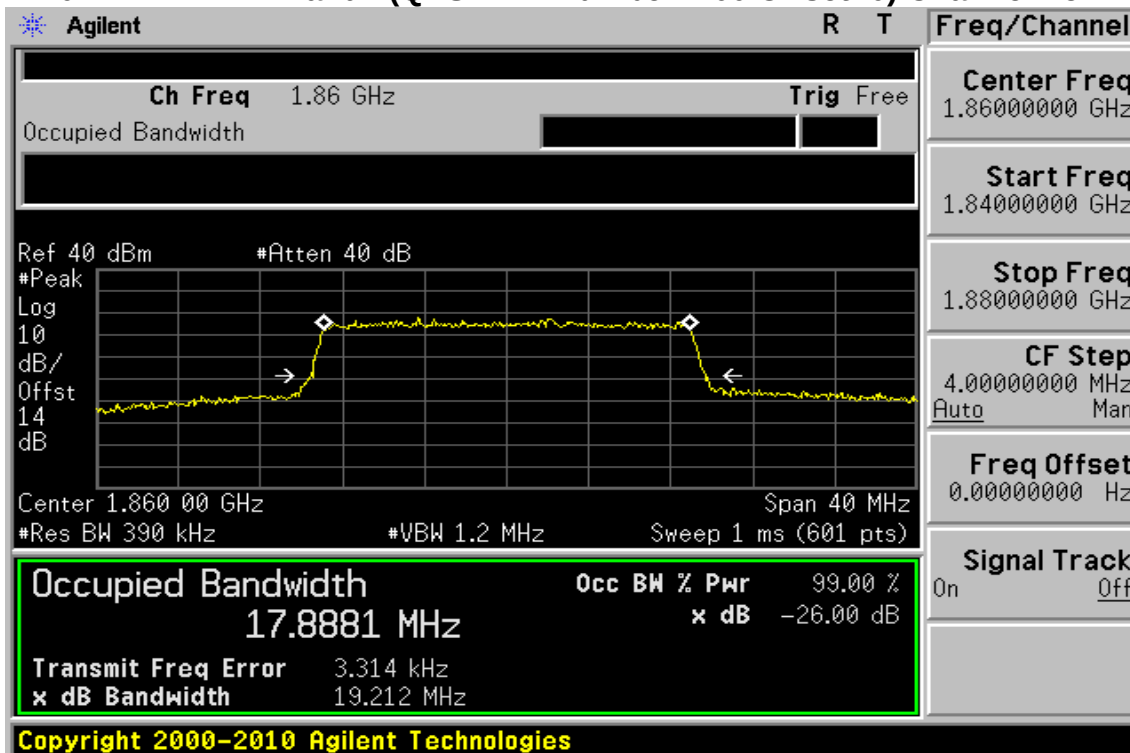
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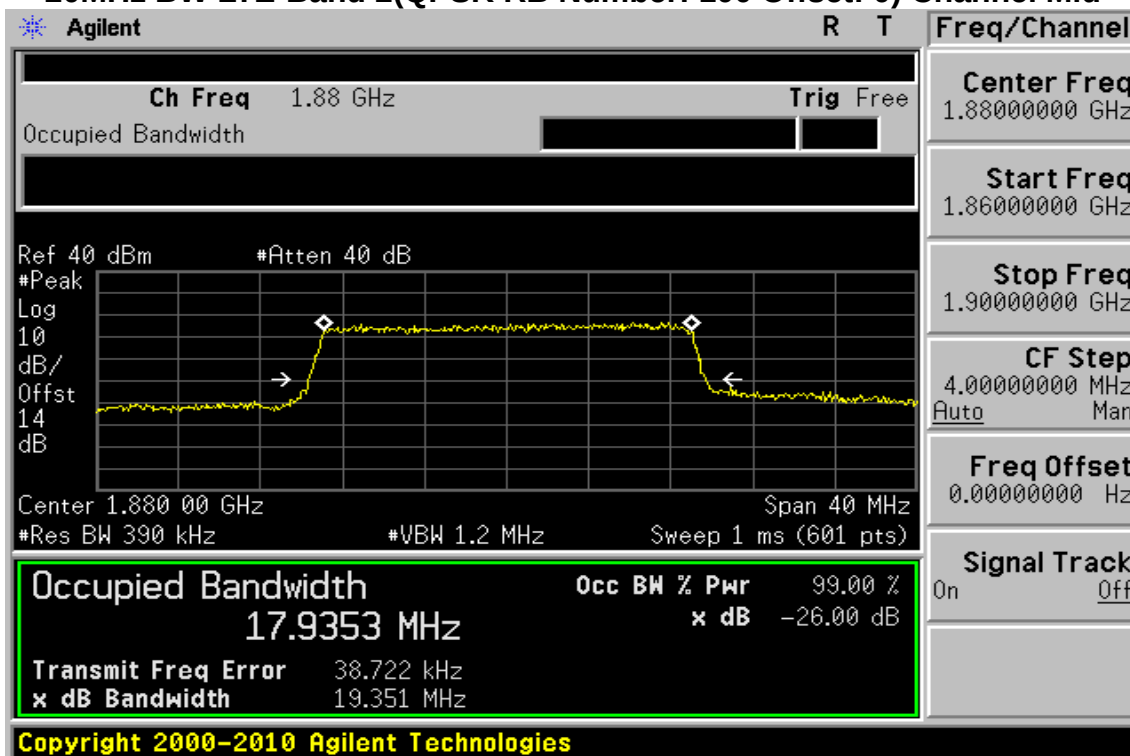
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20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Low



20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Mid



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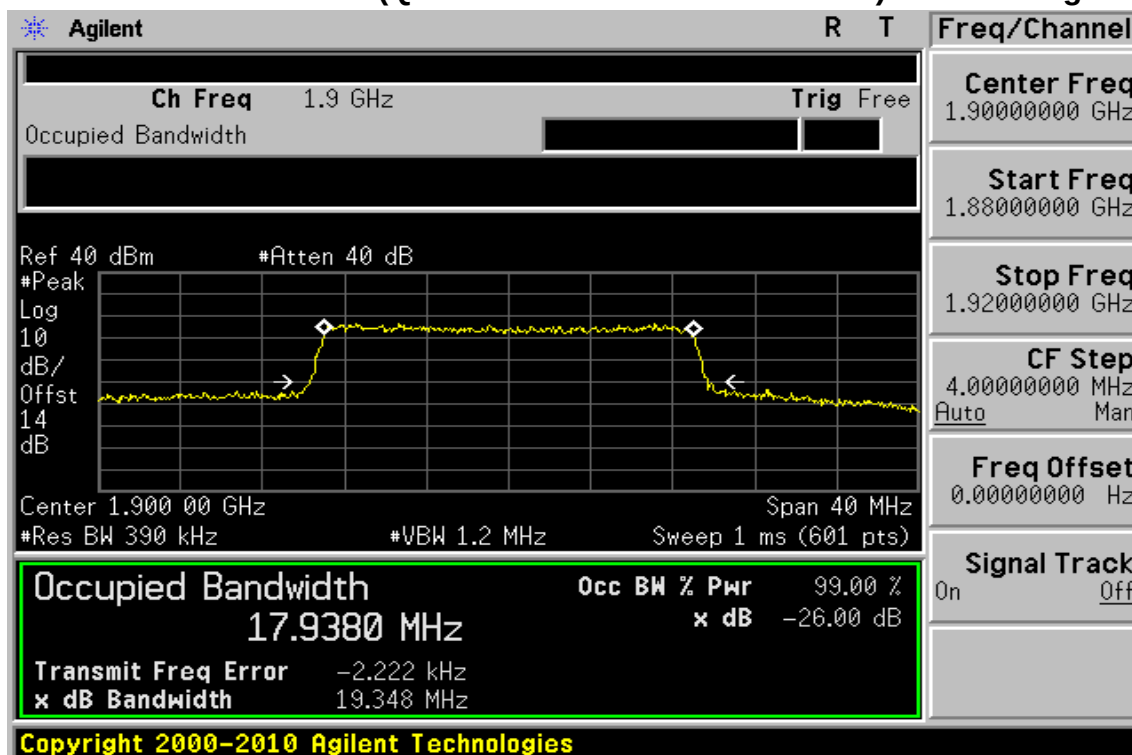
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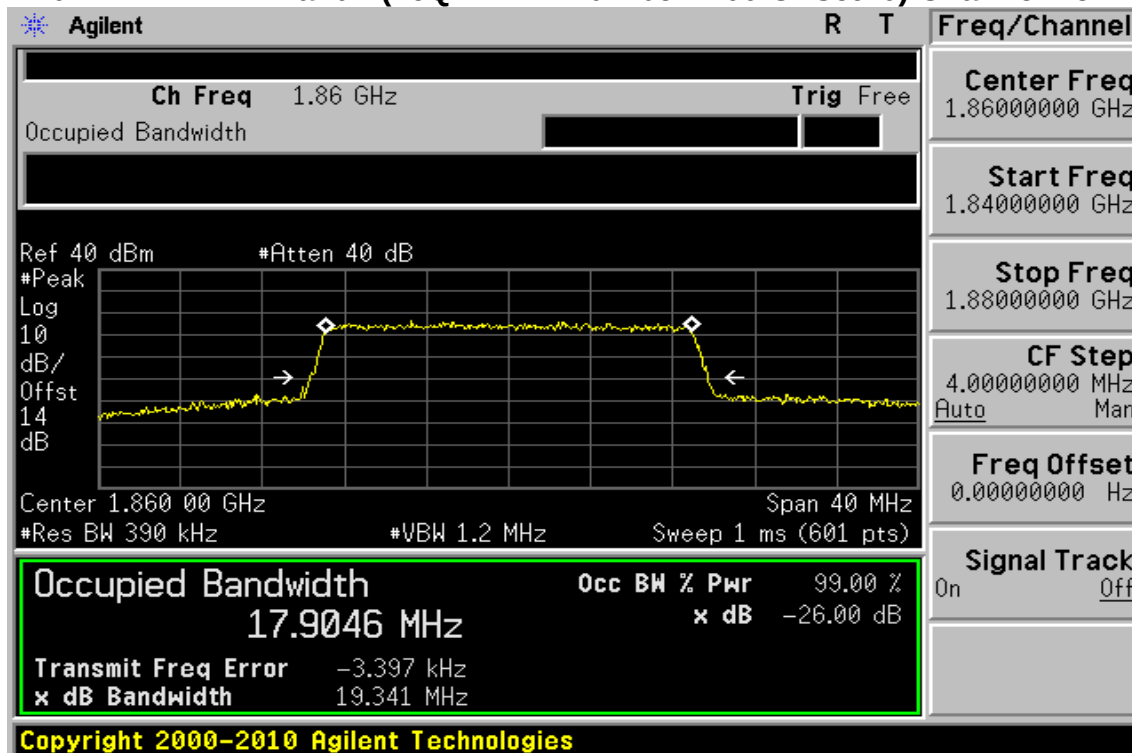
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20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel High



20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Low



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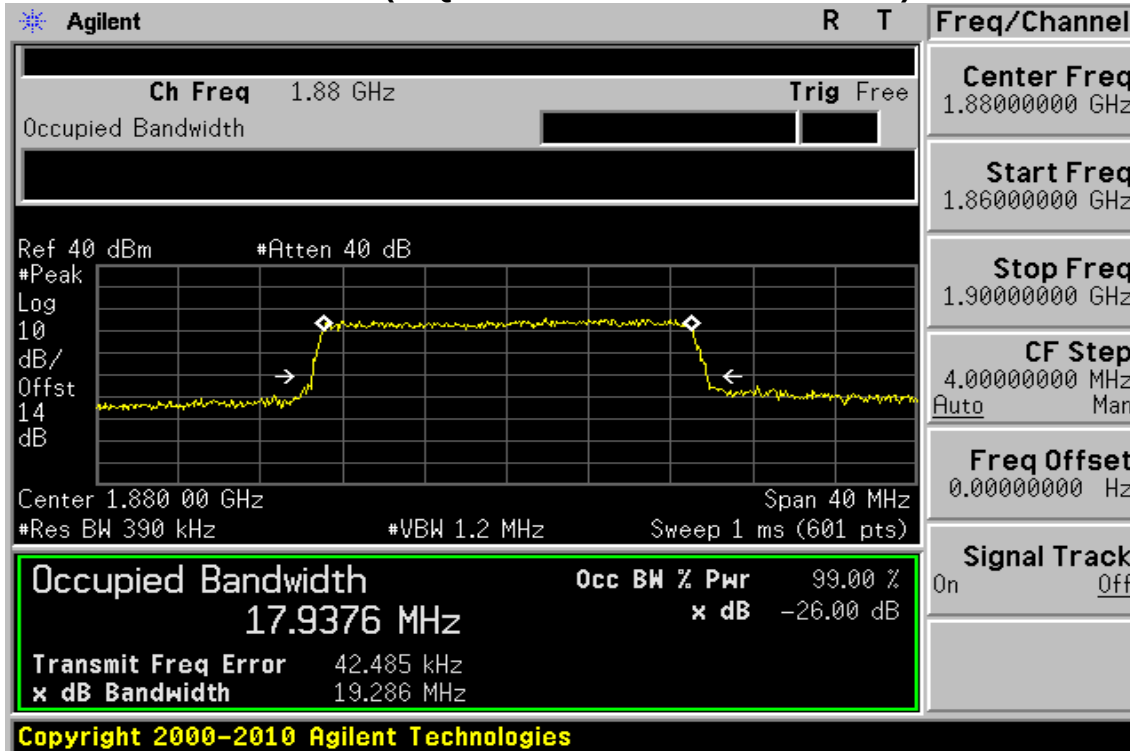
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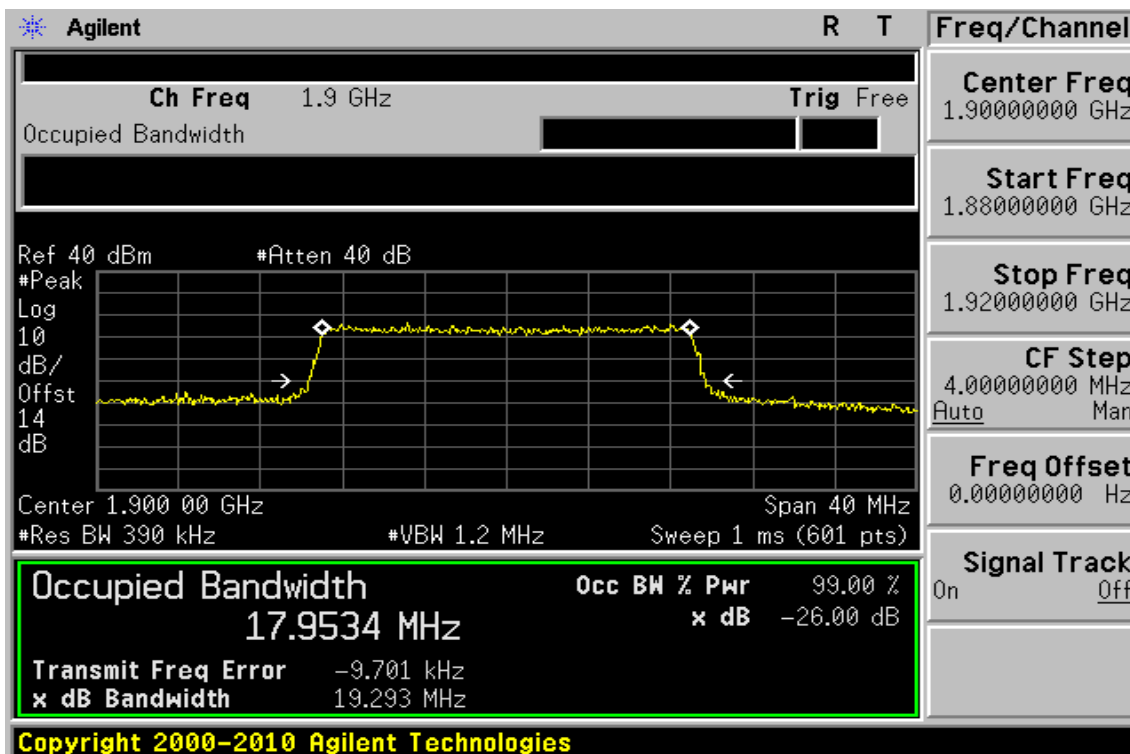
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20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Mid



20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel High



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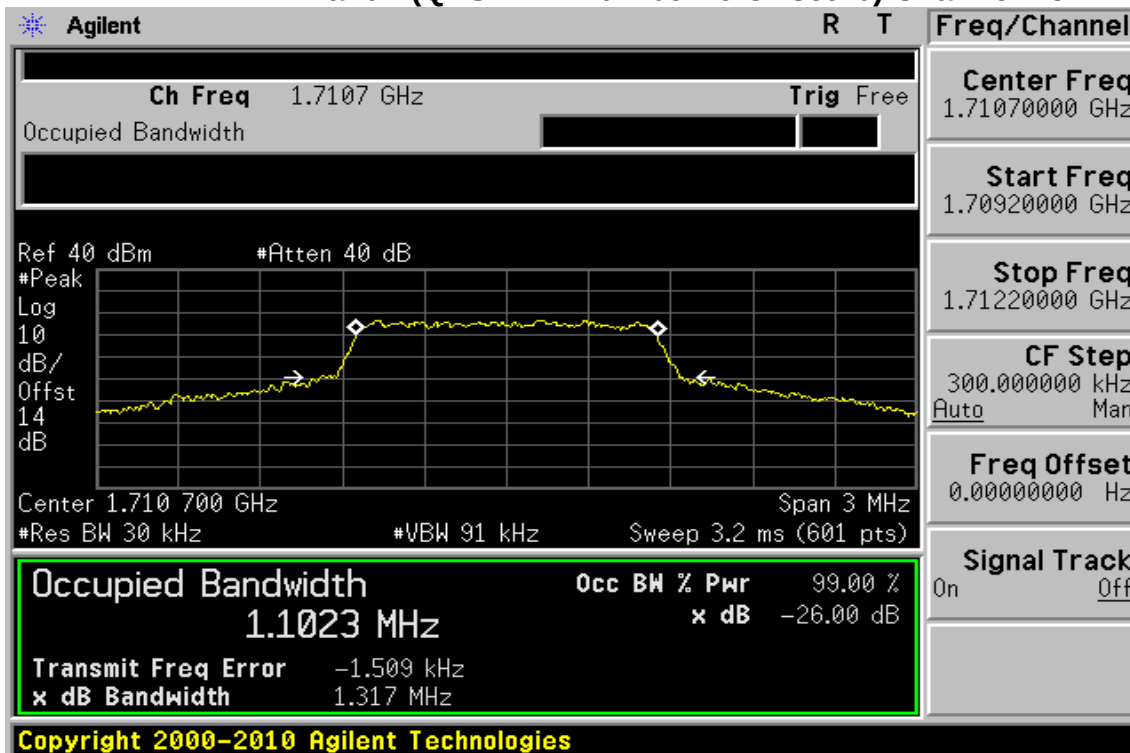
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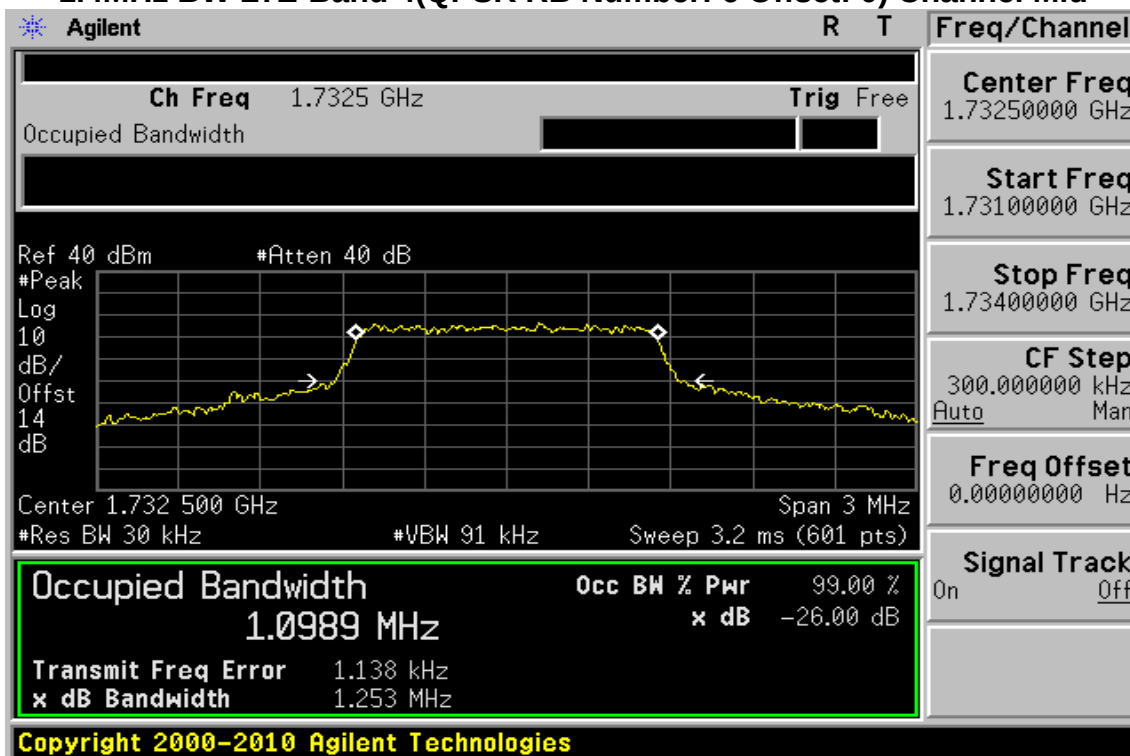
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1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Mid



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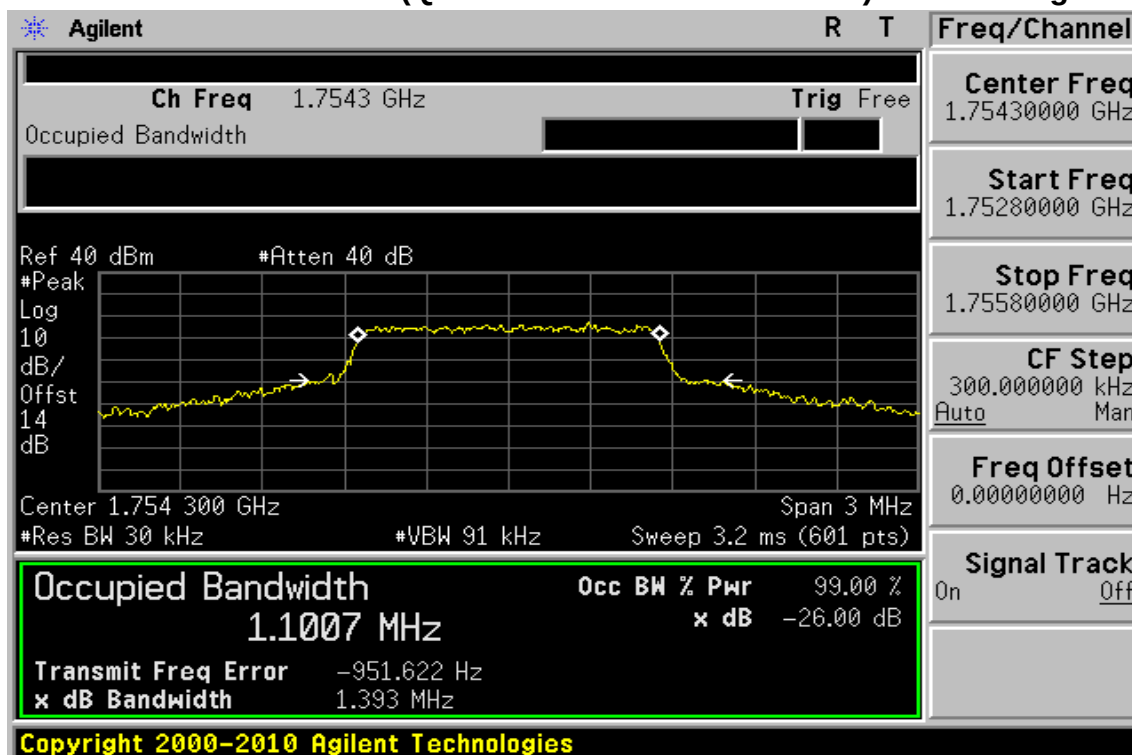
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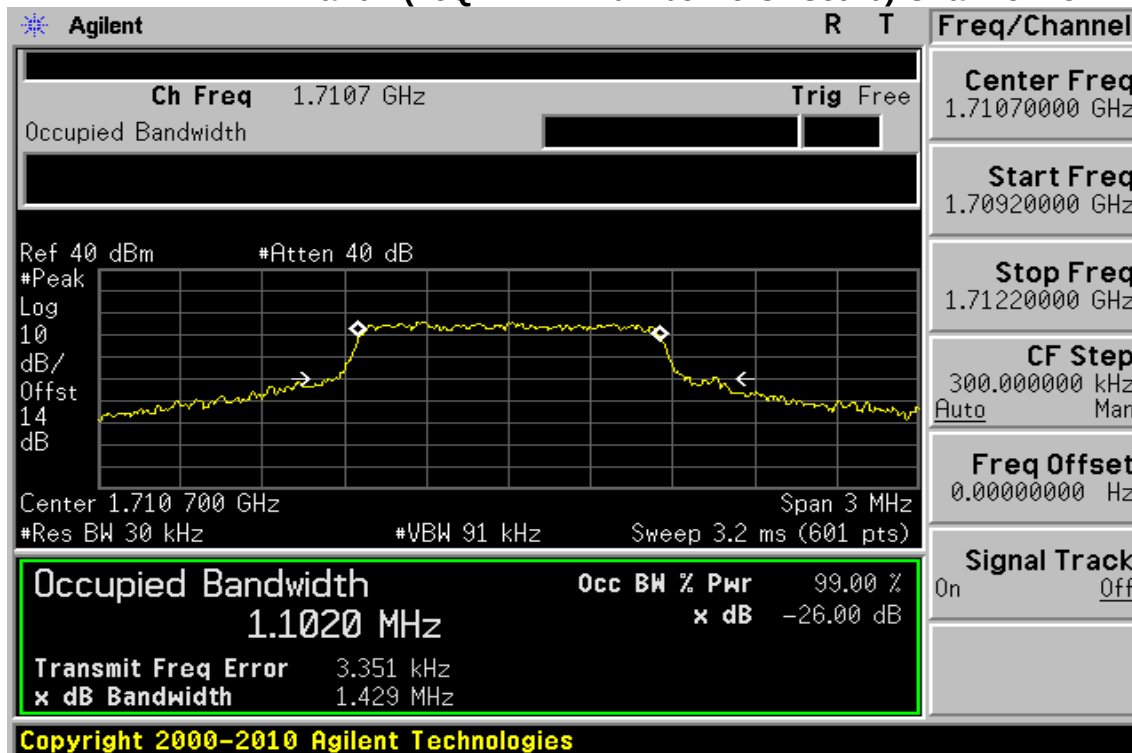
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1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel High



1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Low



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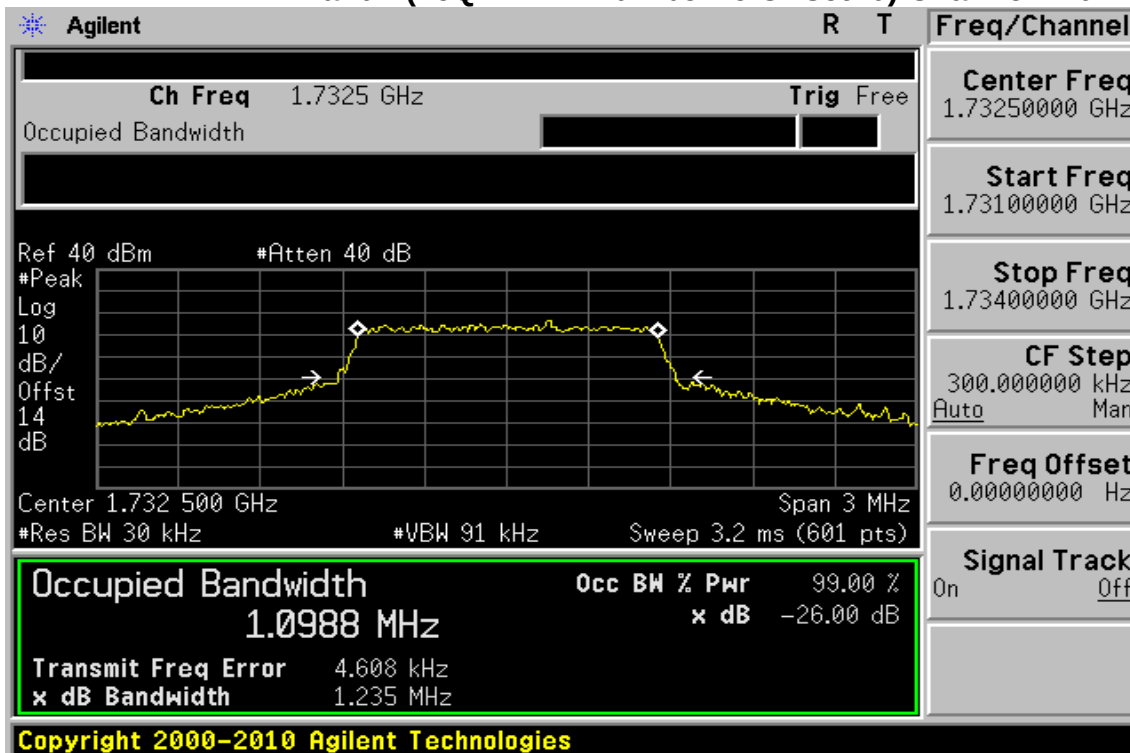
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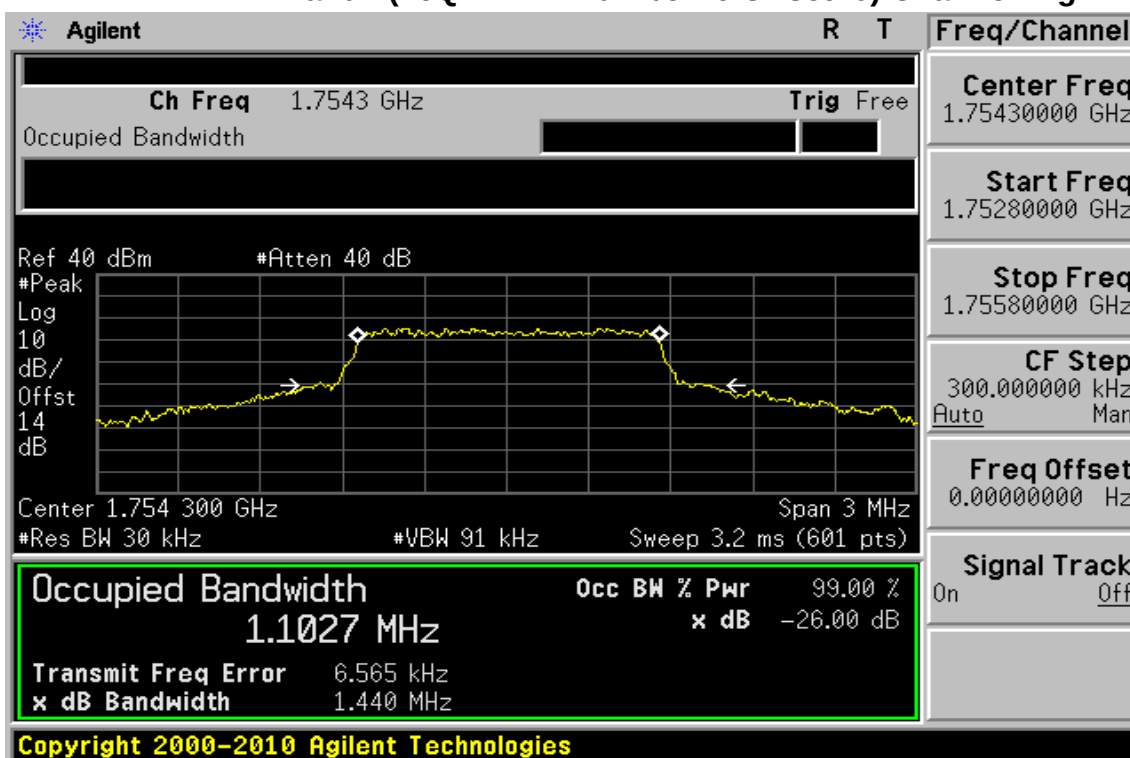
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1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Mid



1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel High



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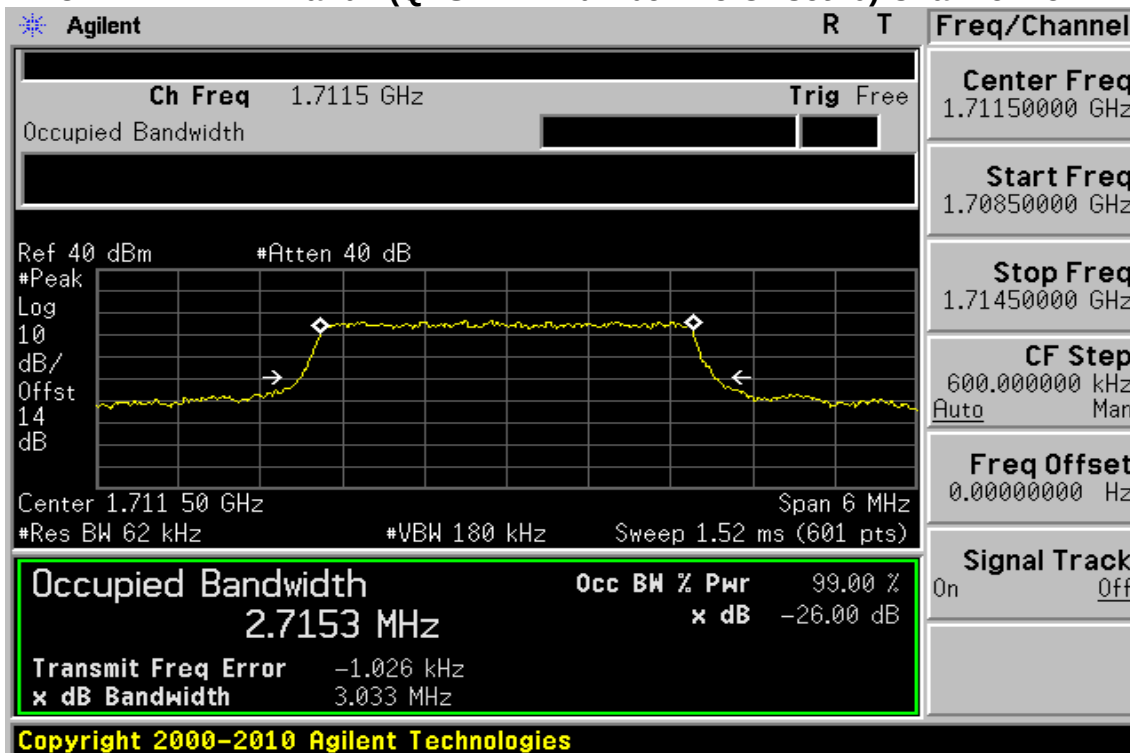
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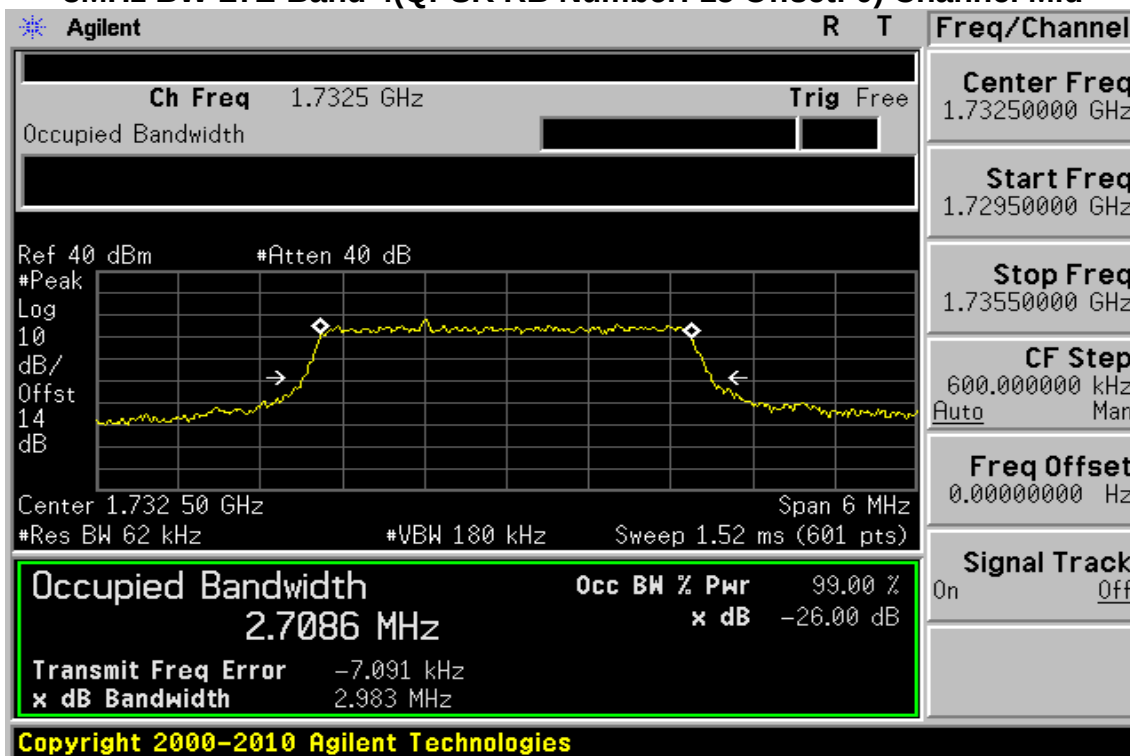
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3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Low



3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Mid



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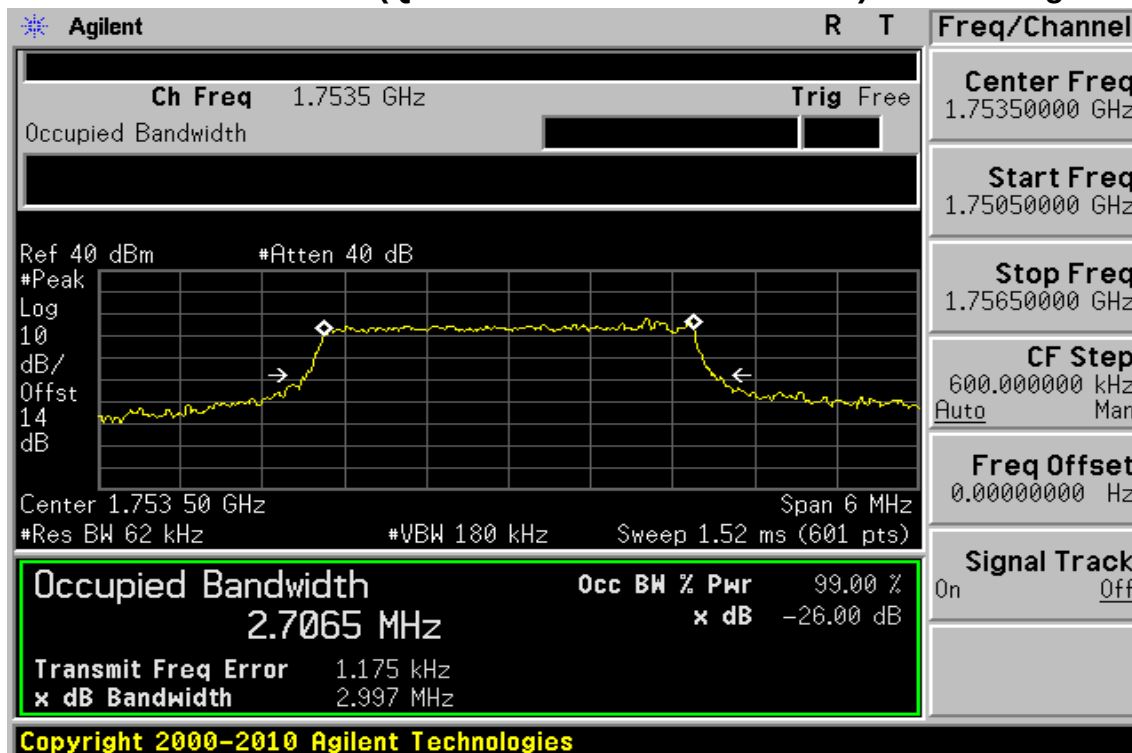
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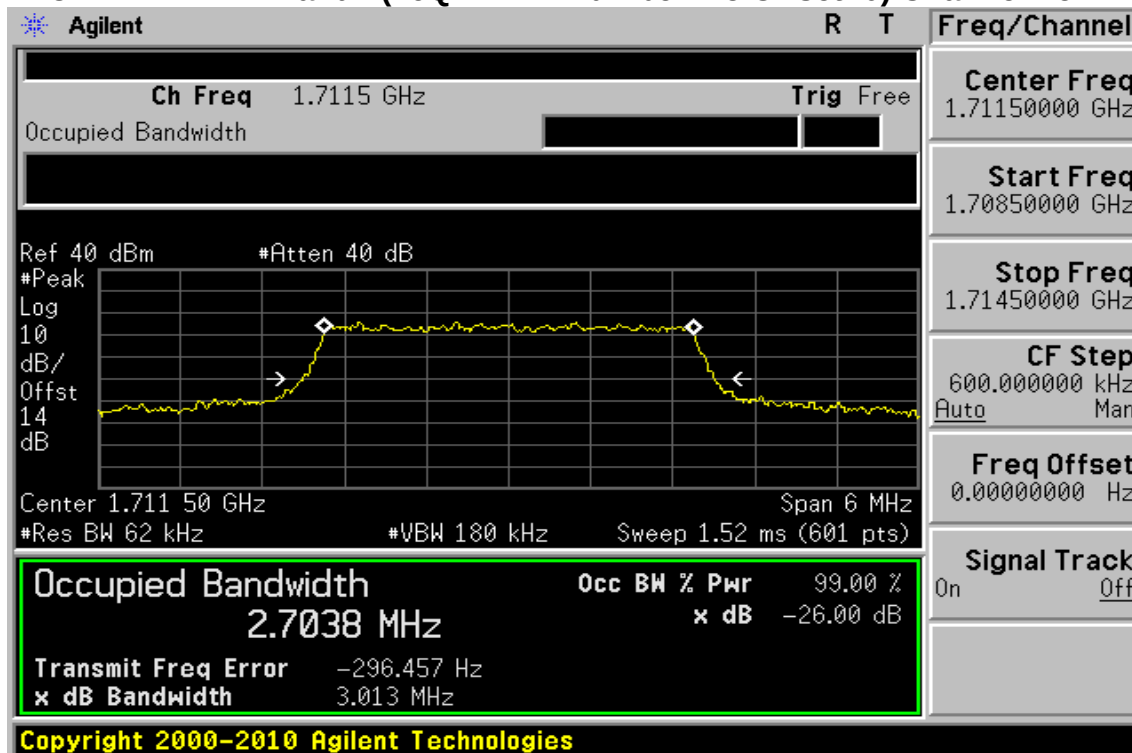
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3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel High



3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Low



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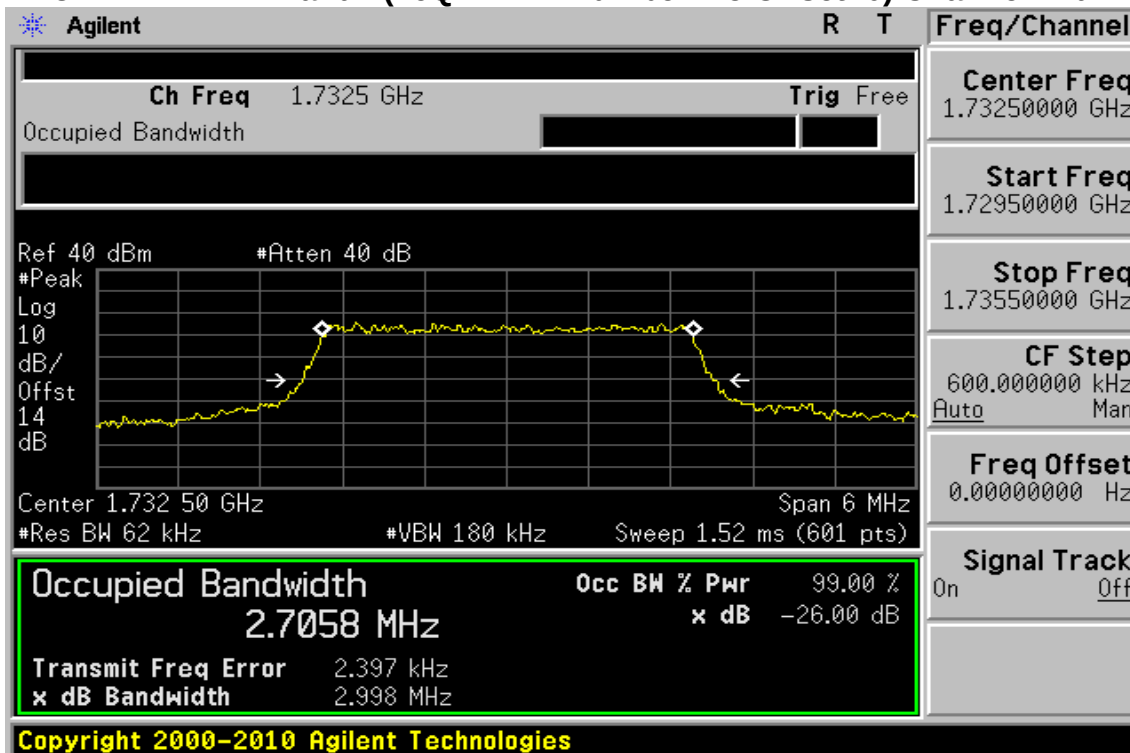
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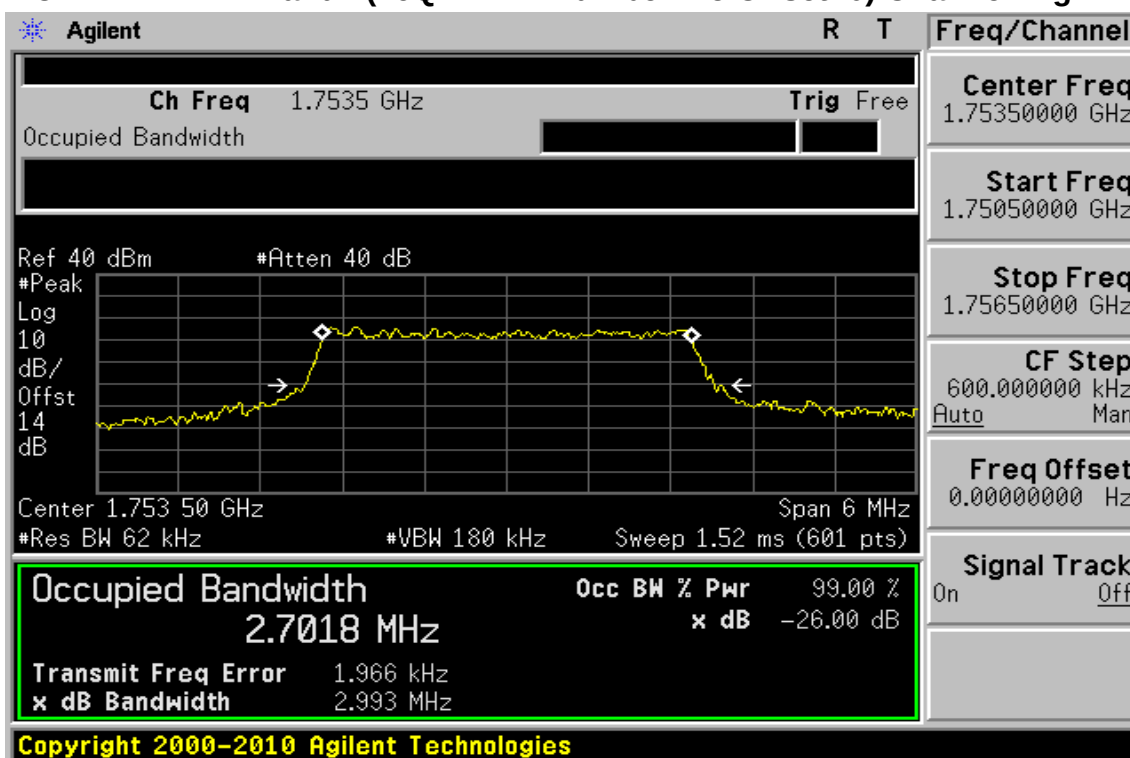
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3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Mid



3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel High



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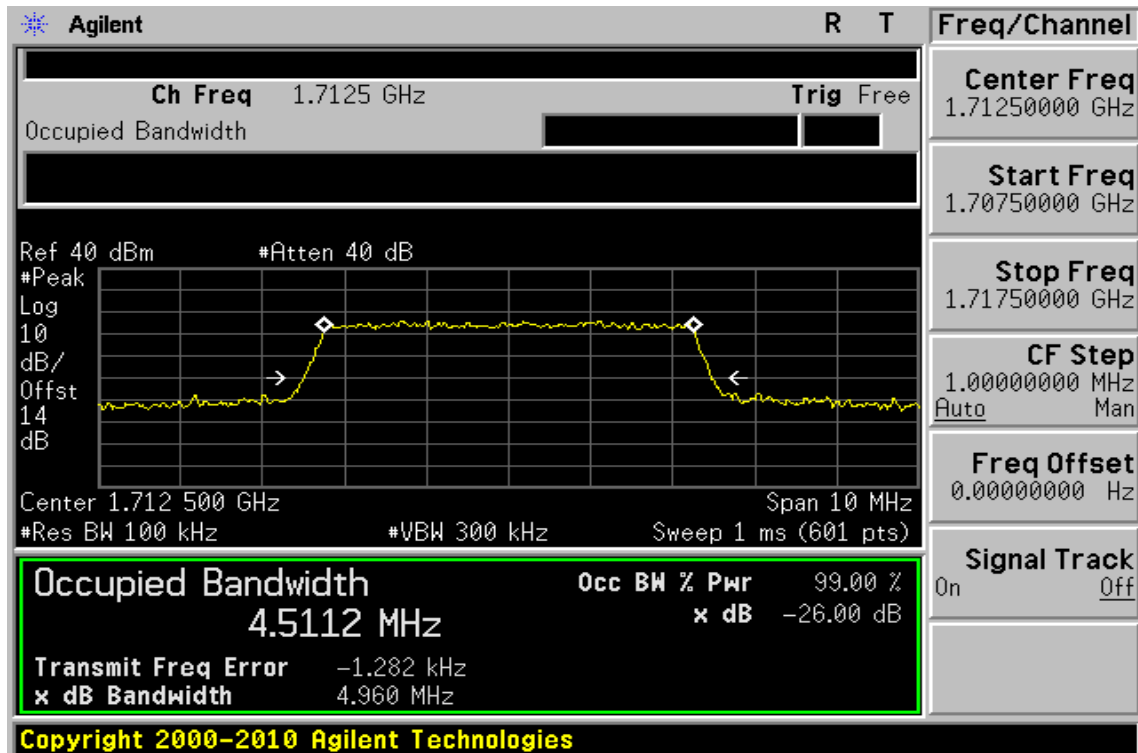
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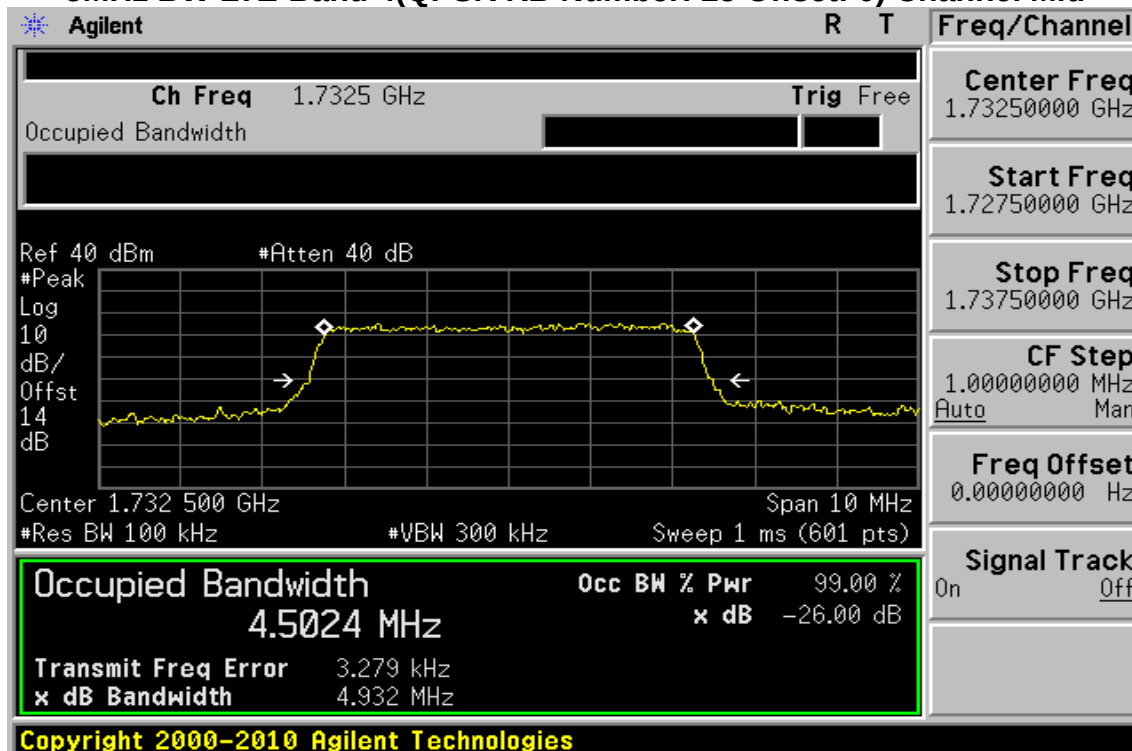
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5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Mid



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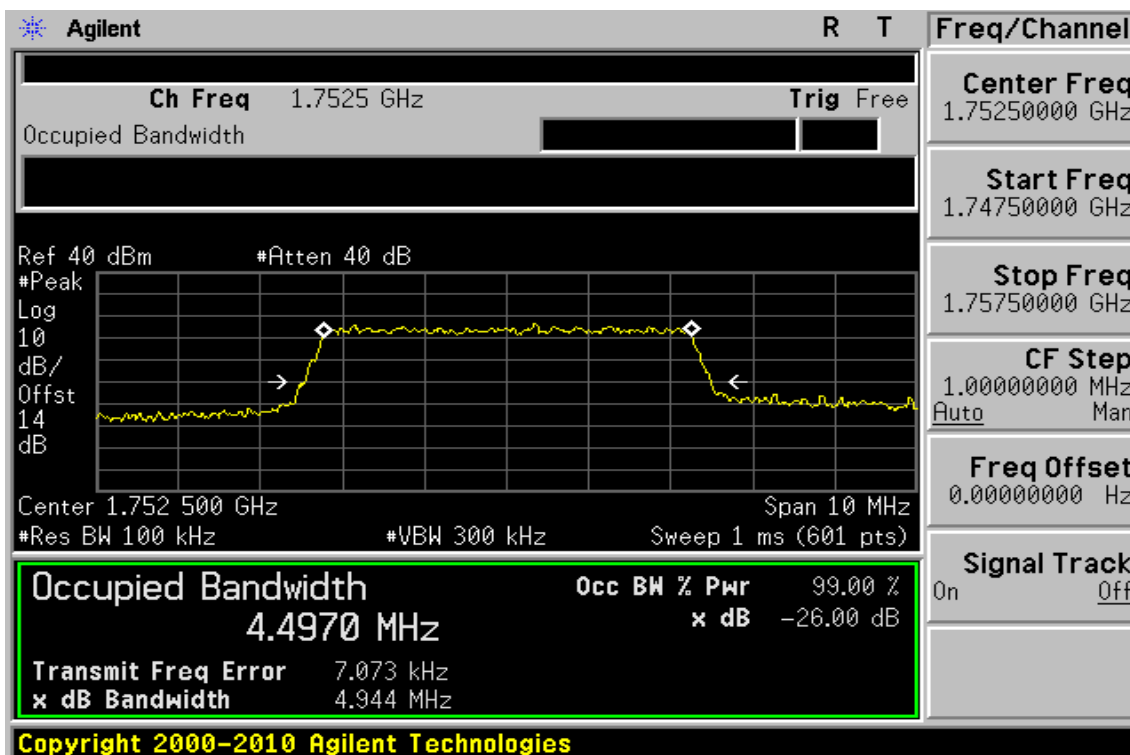
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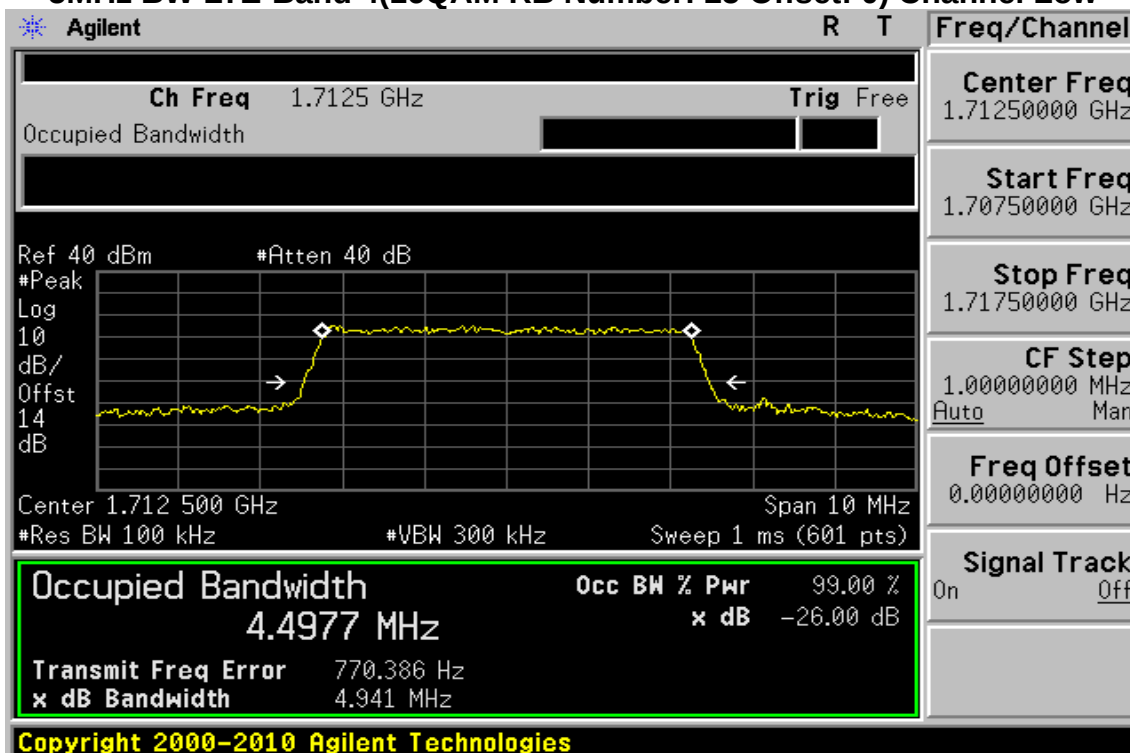
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5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Low



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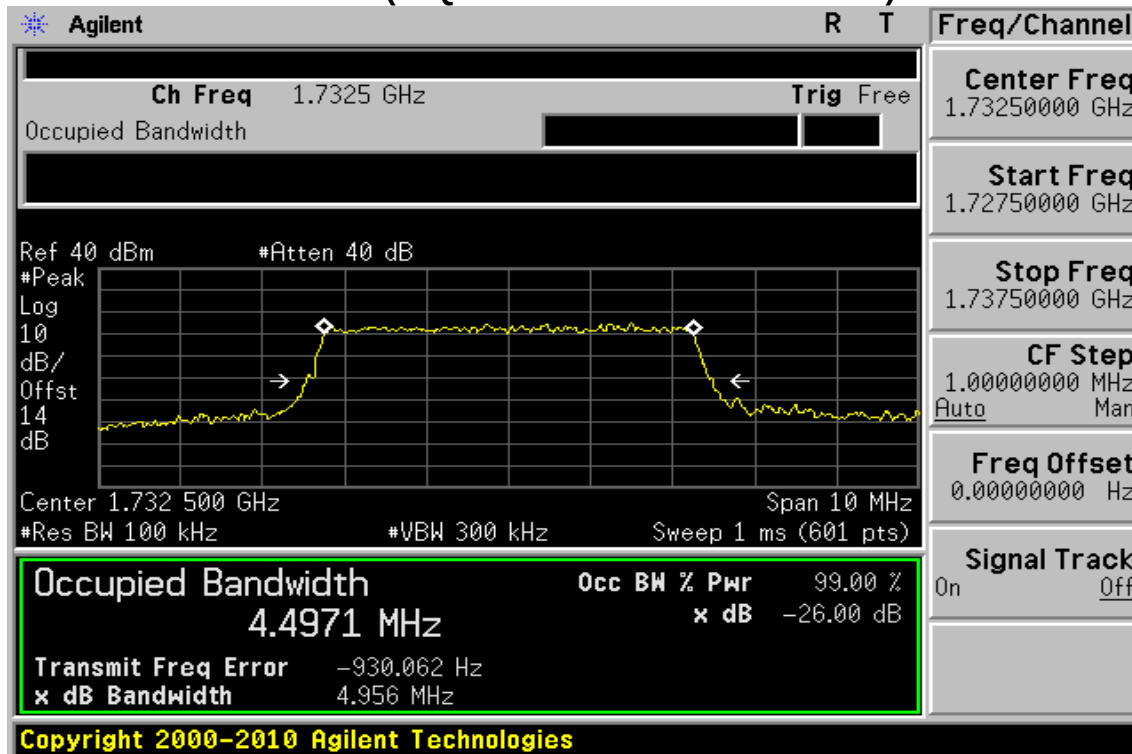
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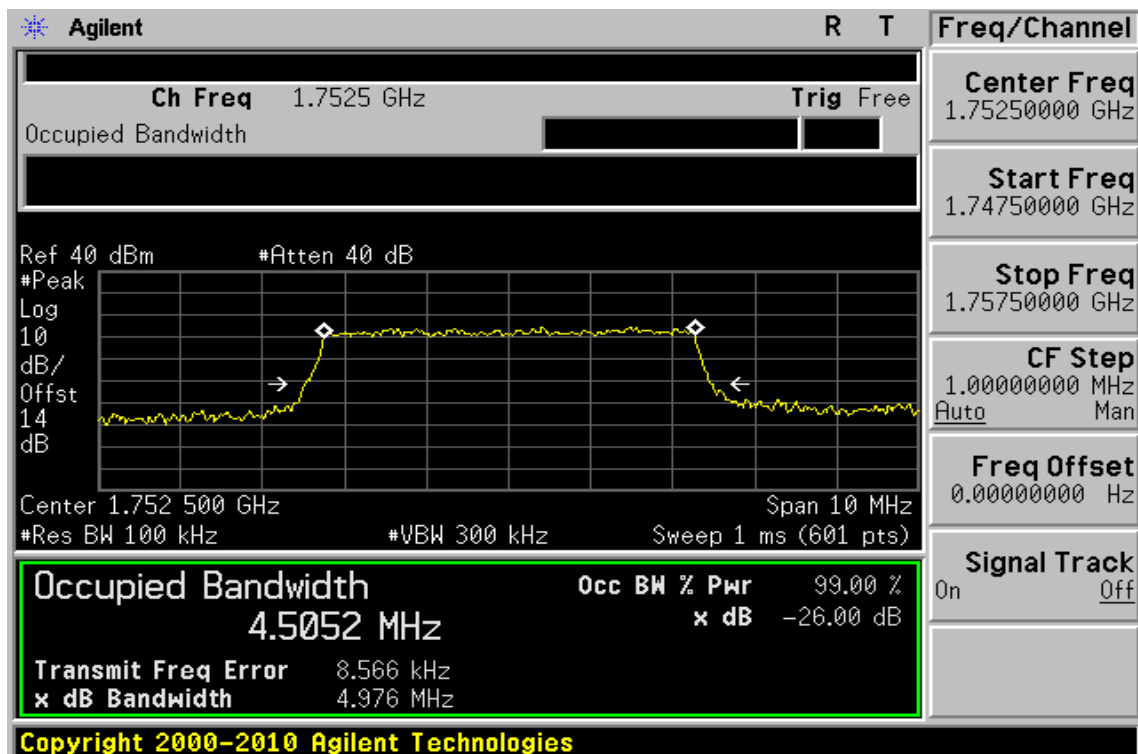
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5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel High



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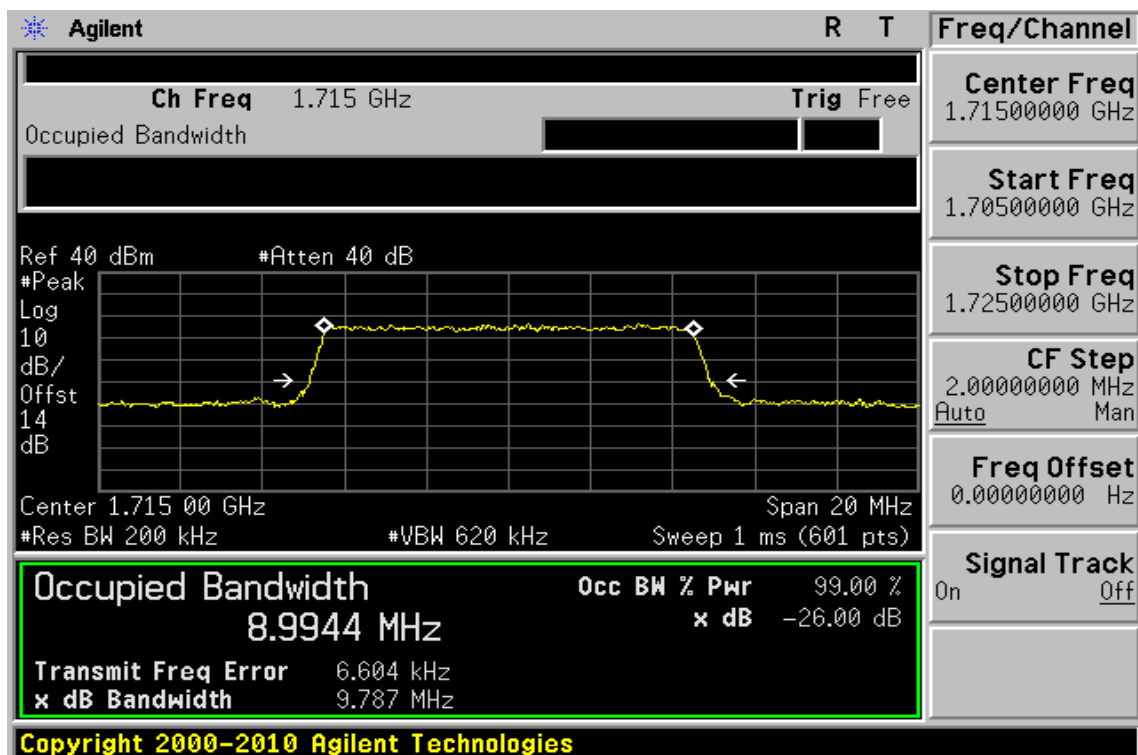
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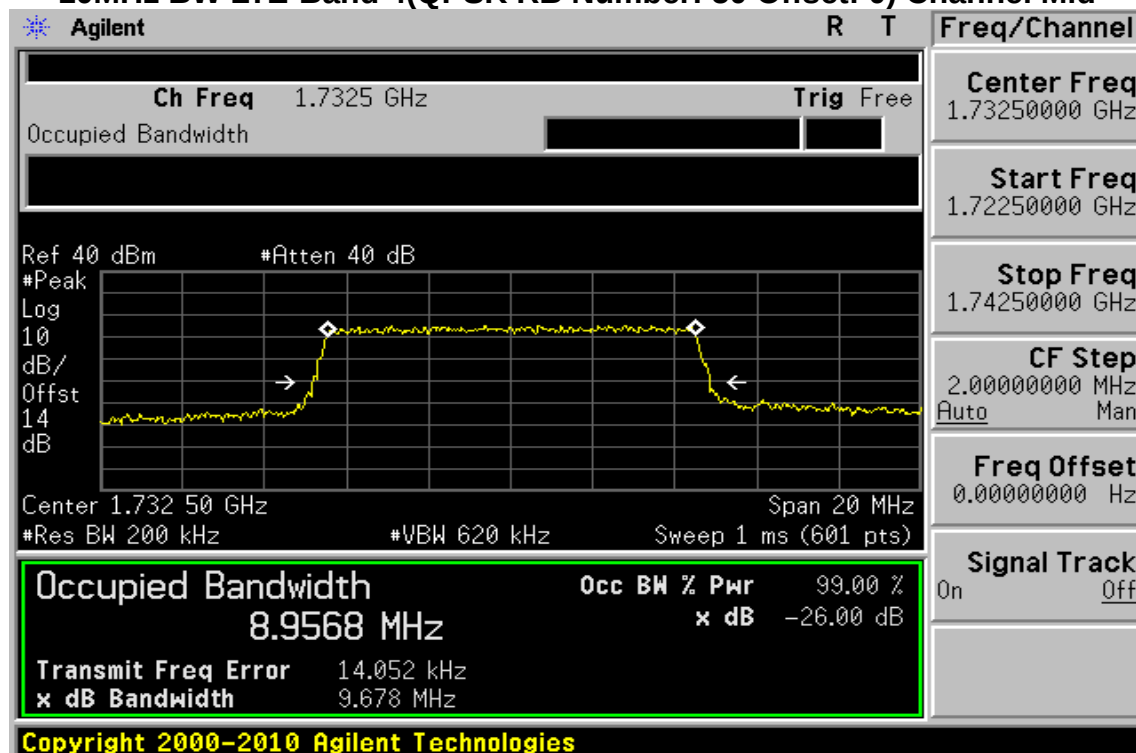
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10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Mid



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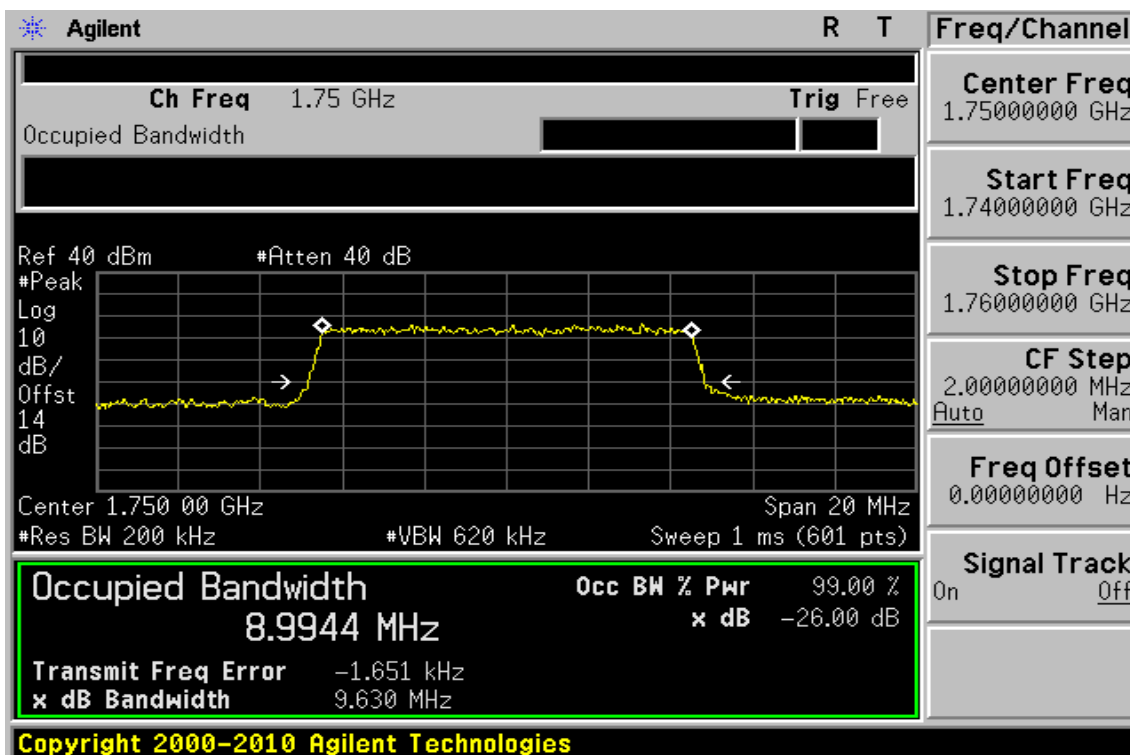
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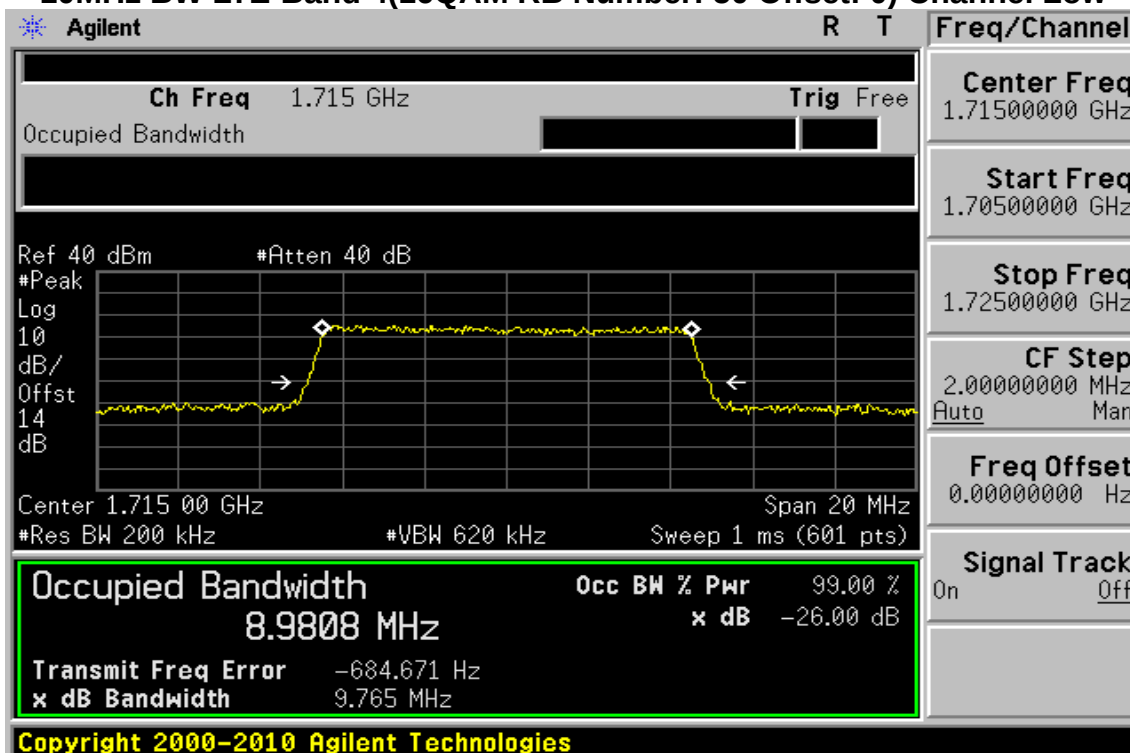
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10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Low



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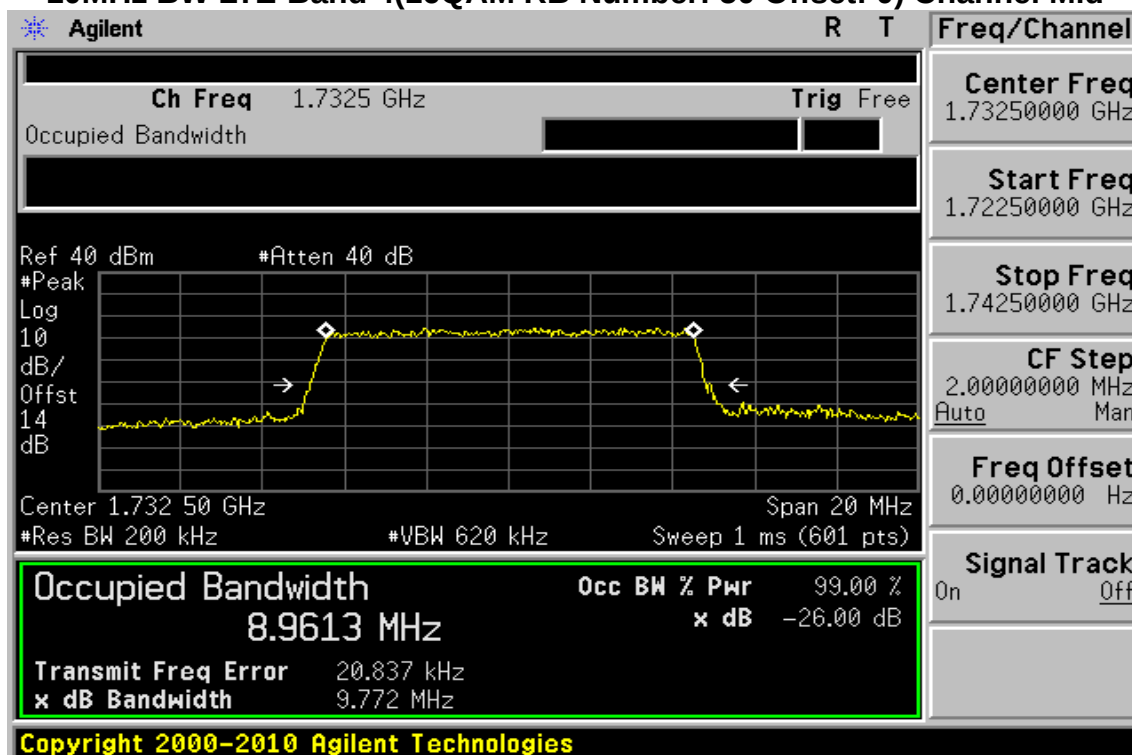
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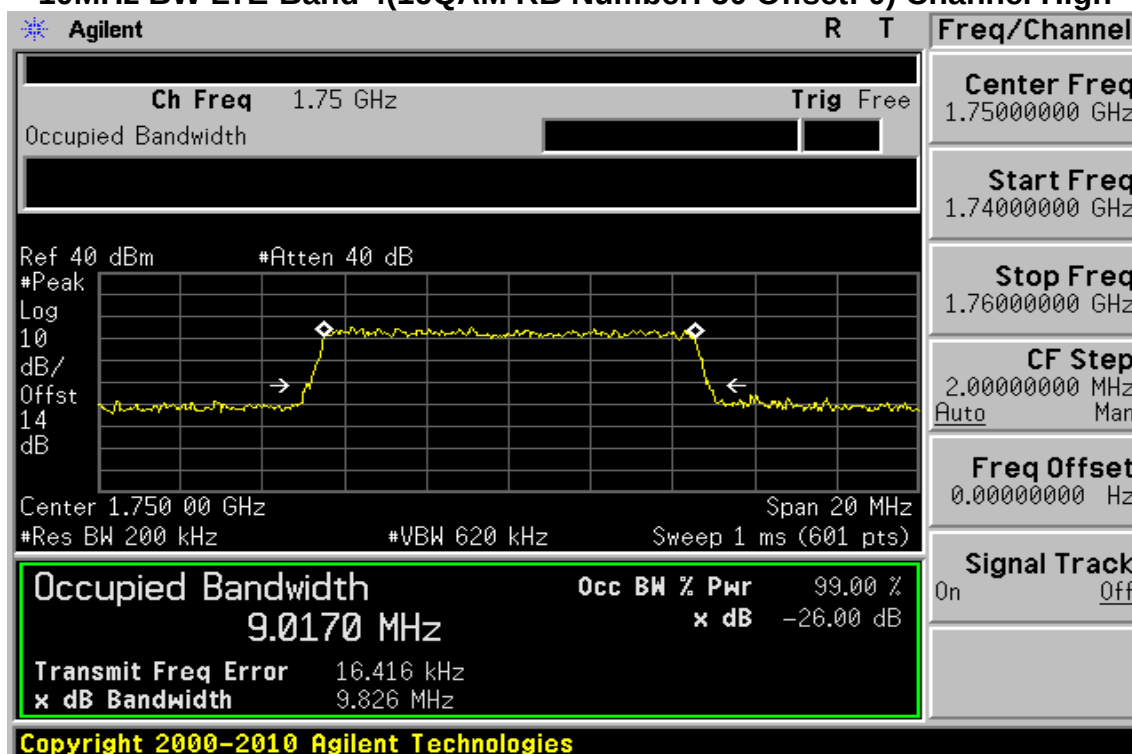
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10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel High



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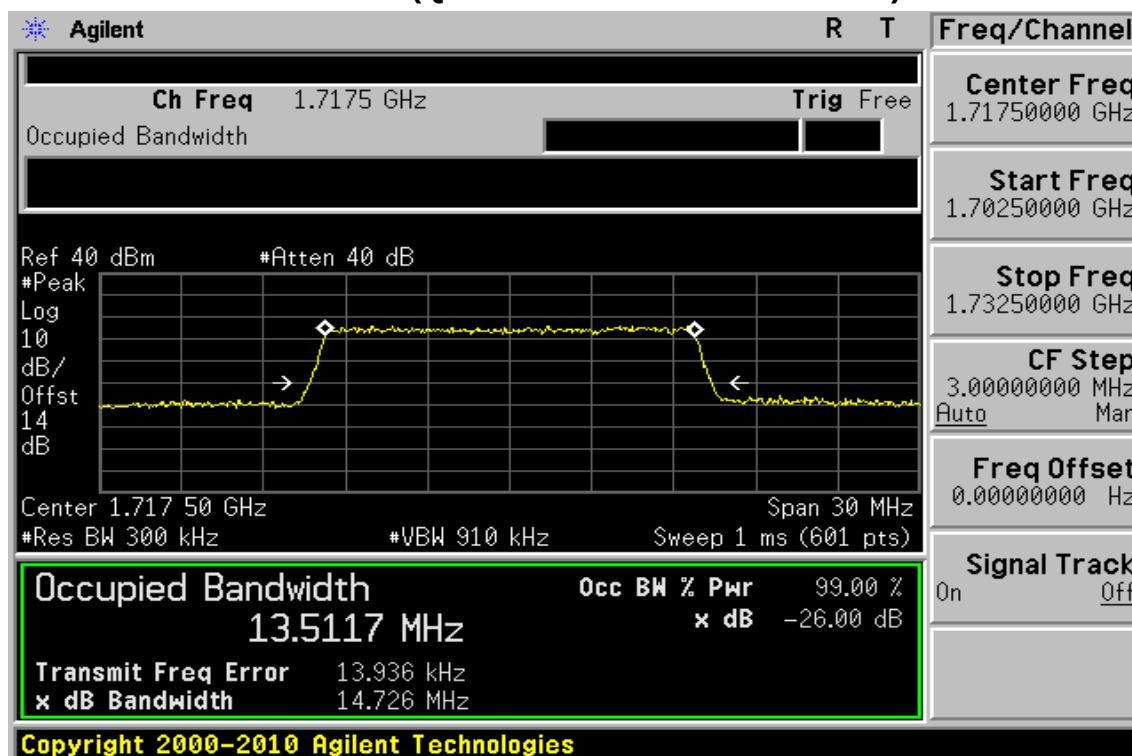
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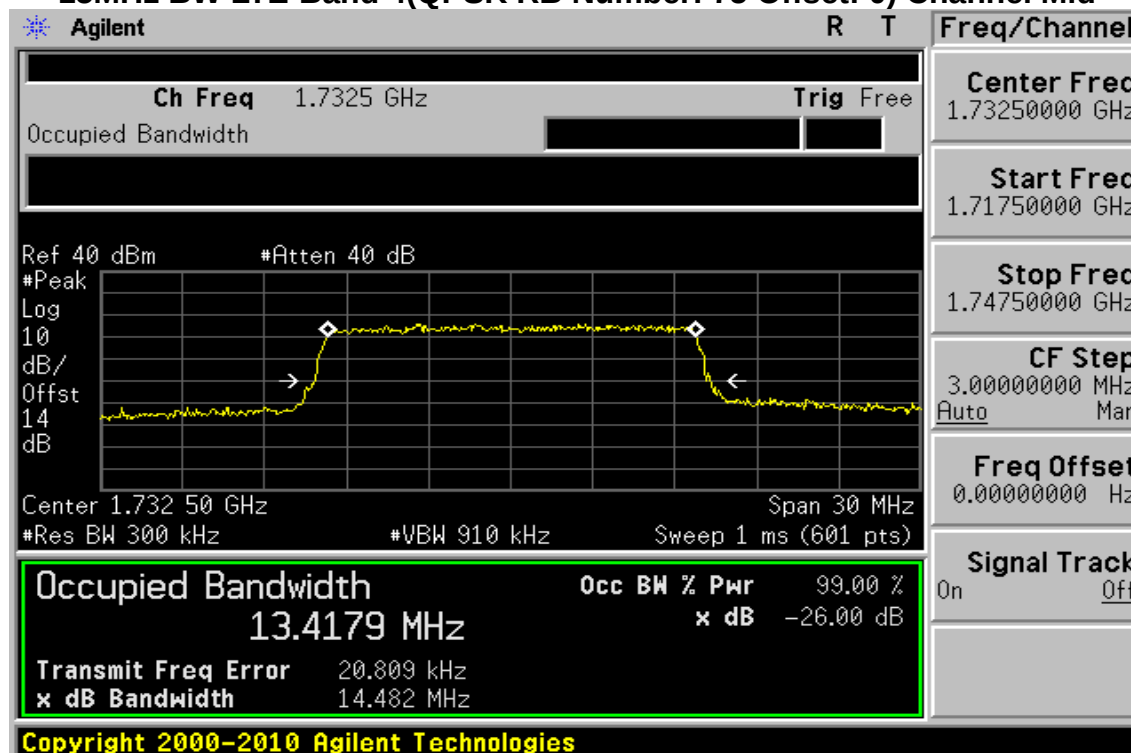
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15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel Mid



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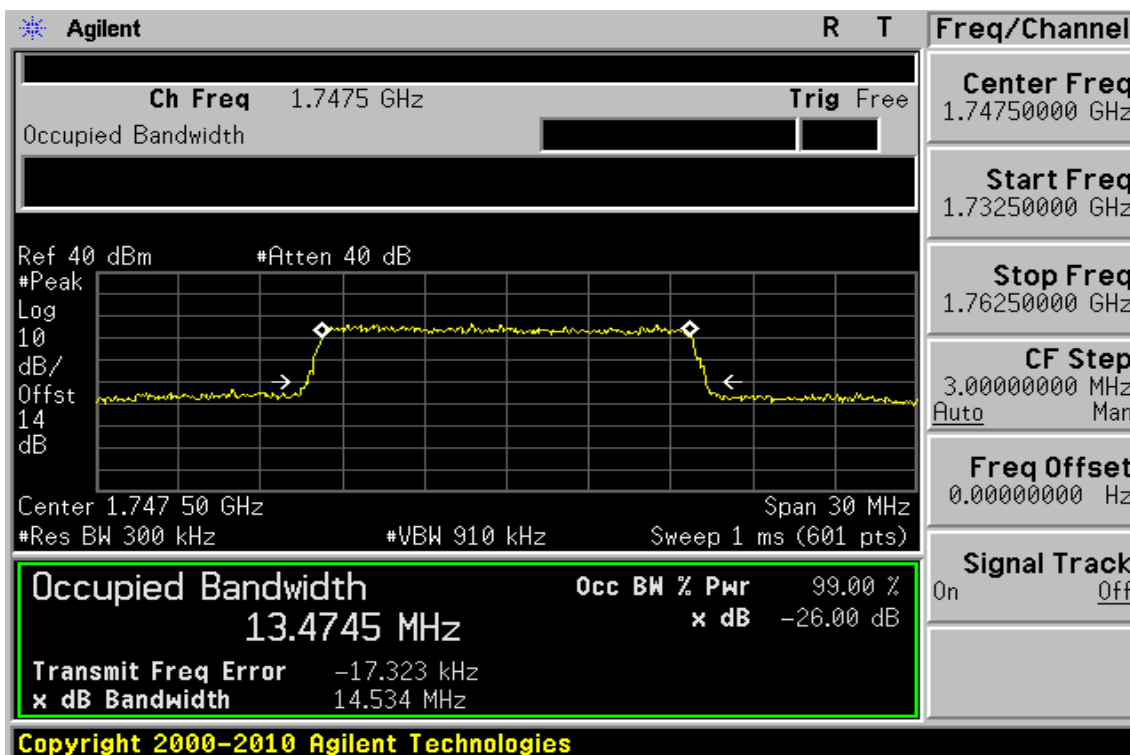
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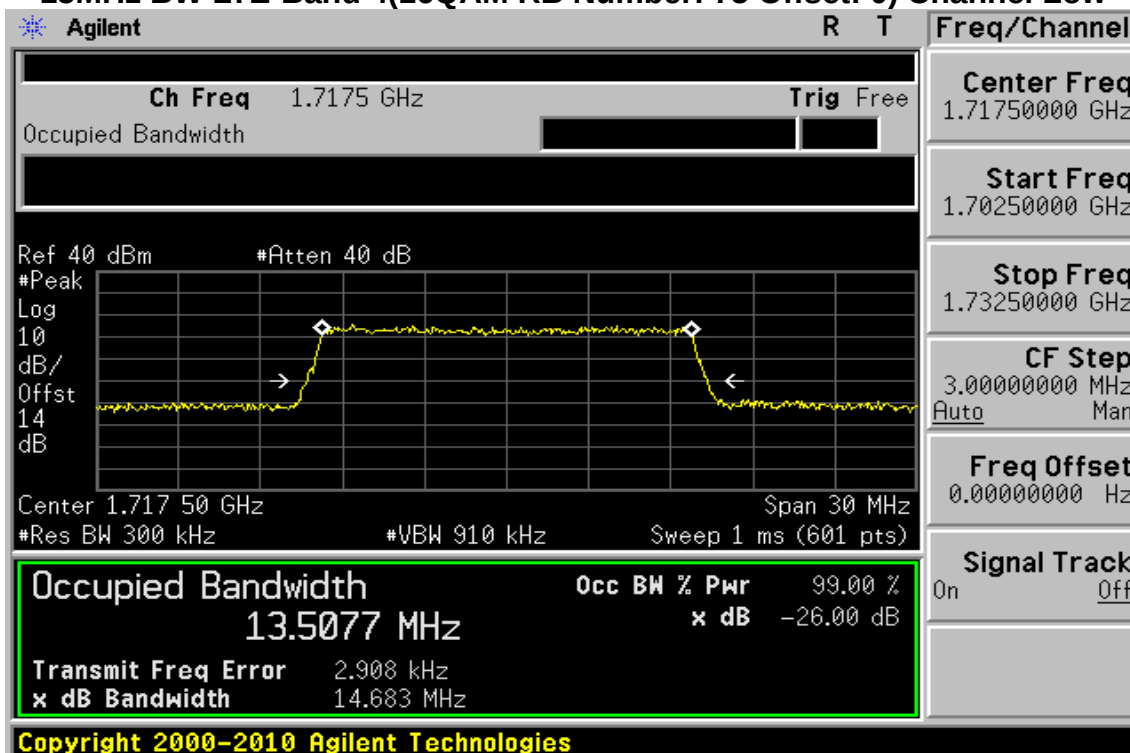
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15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel High



15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel Low



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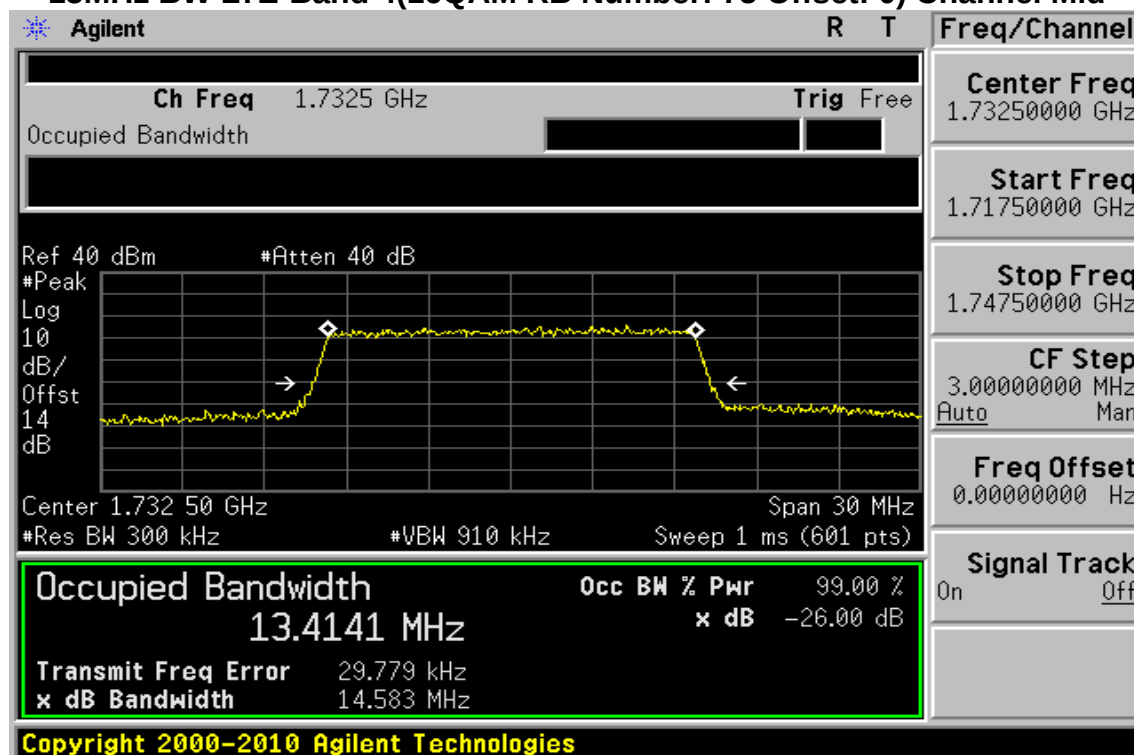
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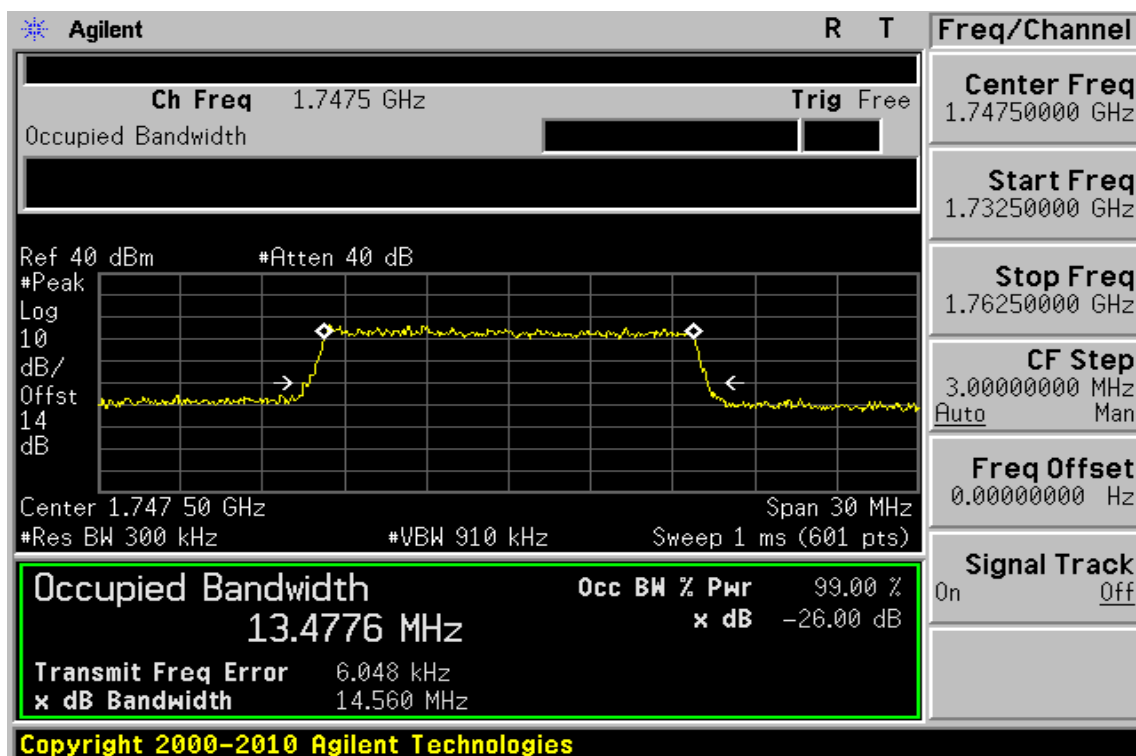
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15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel Mid



15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel High



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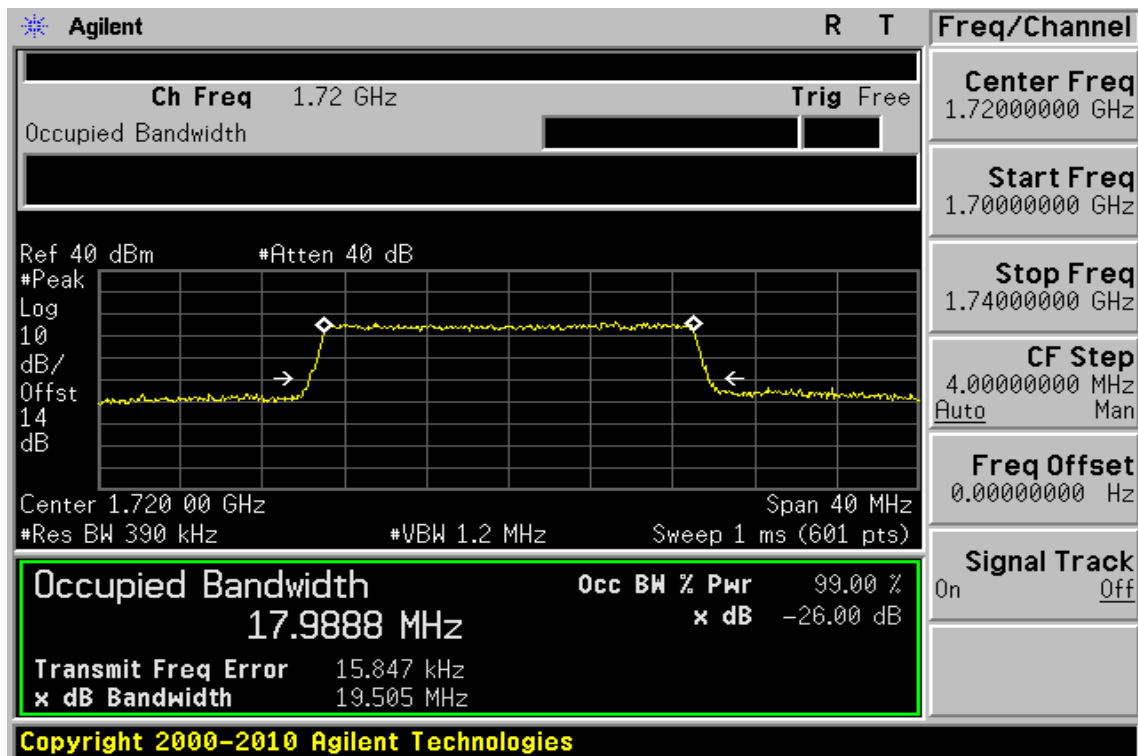
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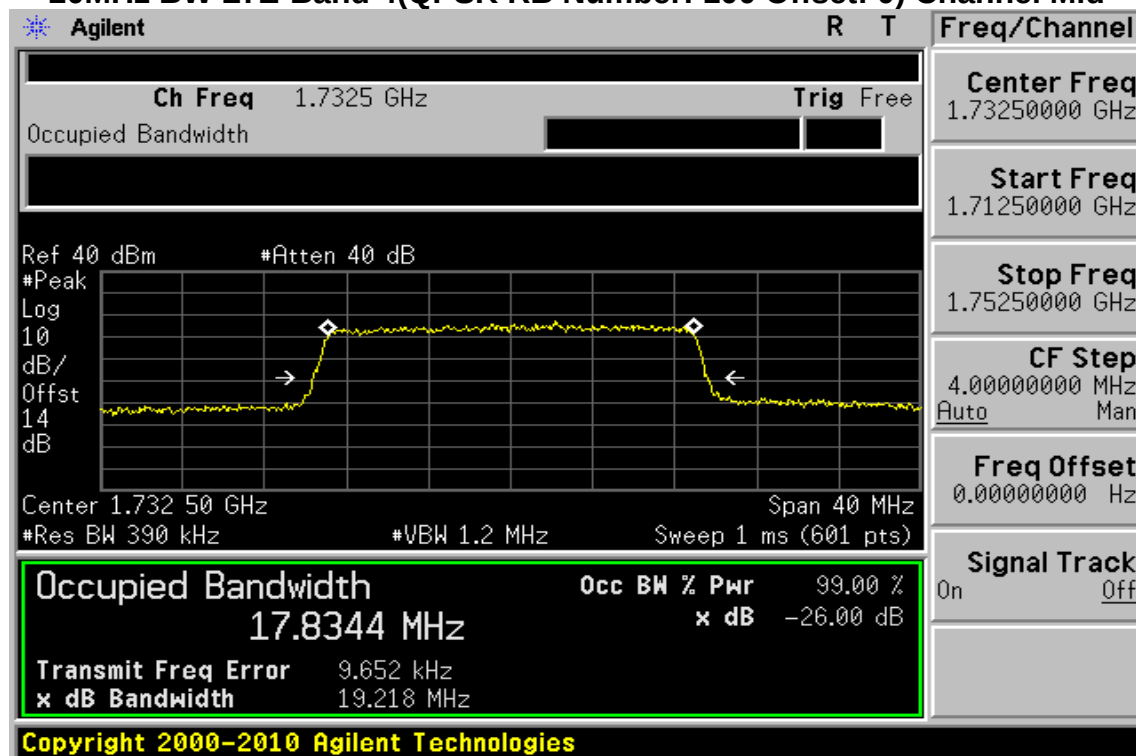
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20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel Low



20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel Mid



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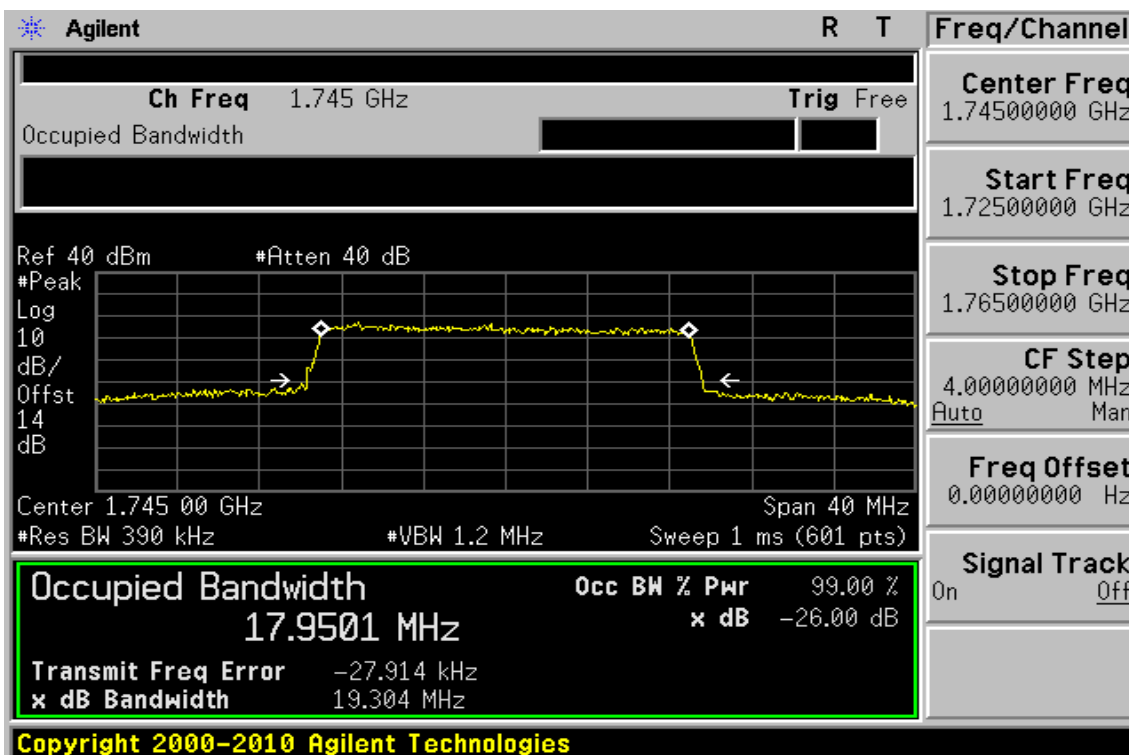
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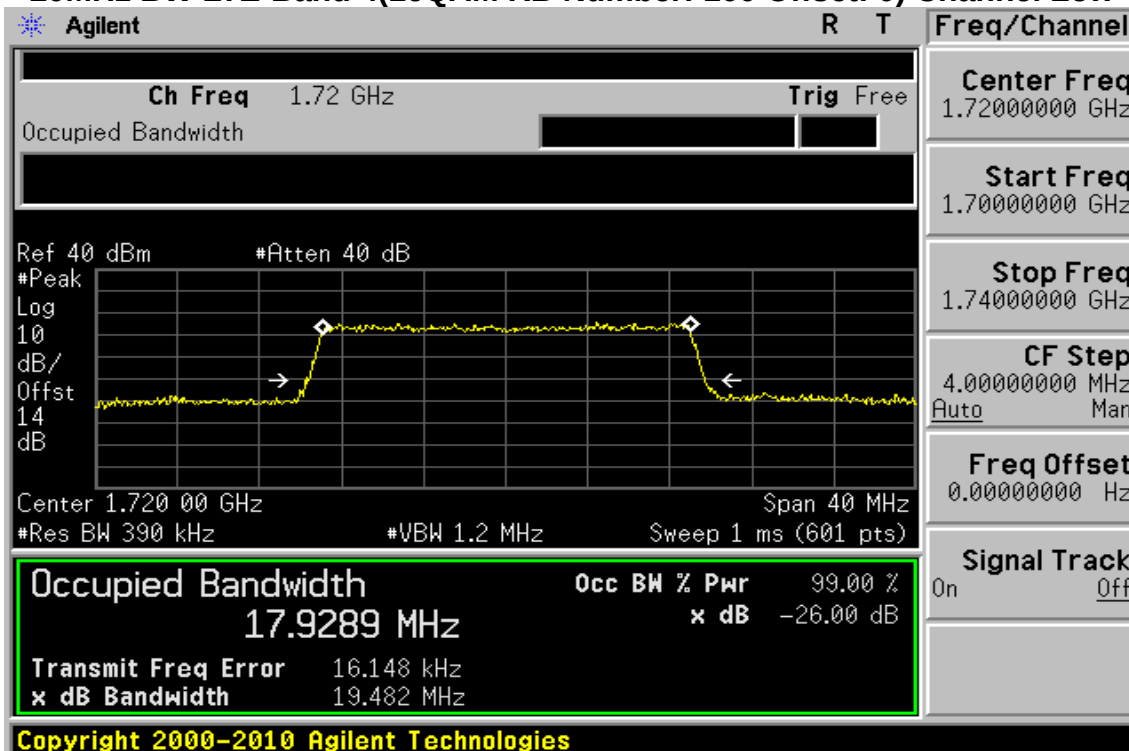
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20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel High



20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel Low



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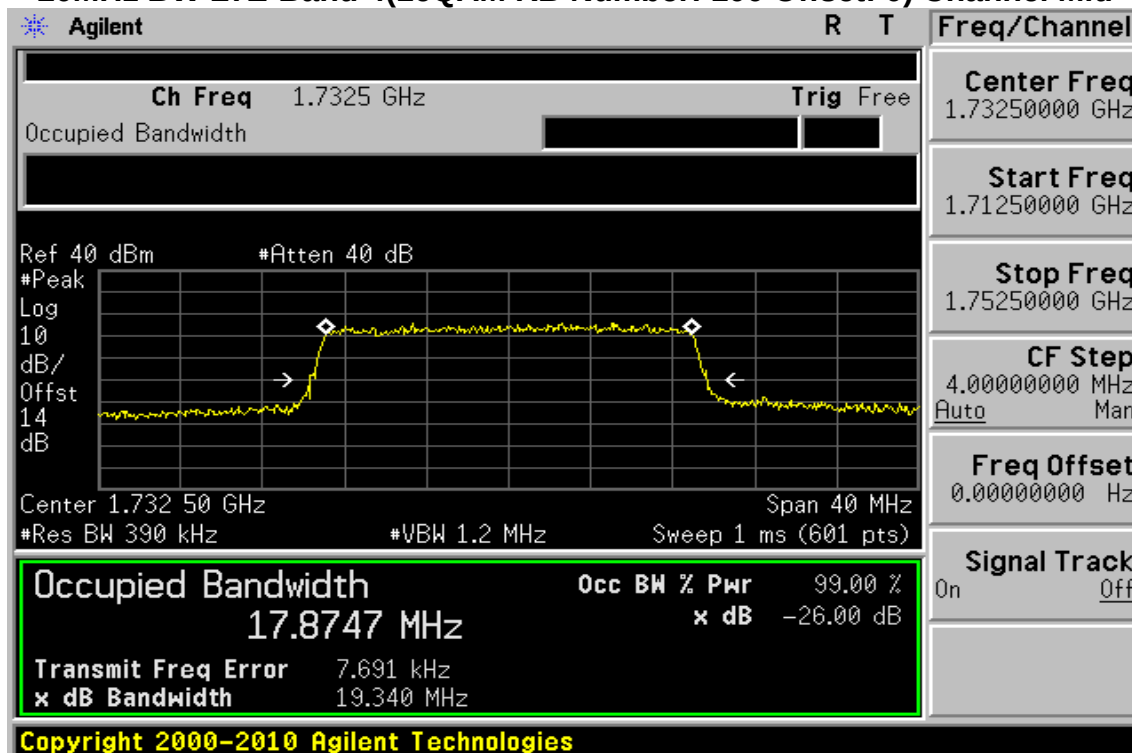
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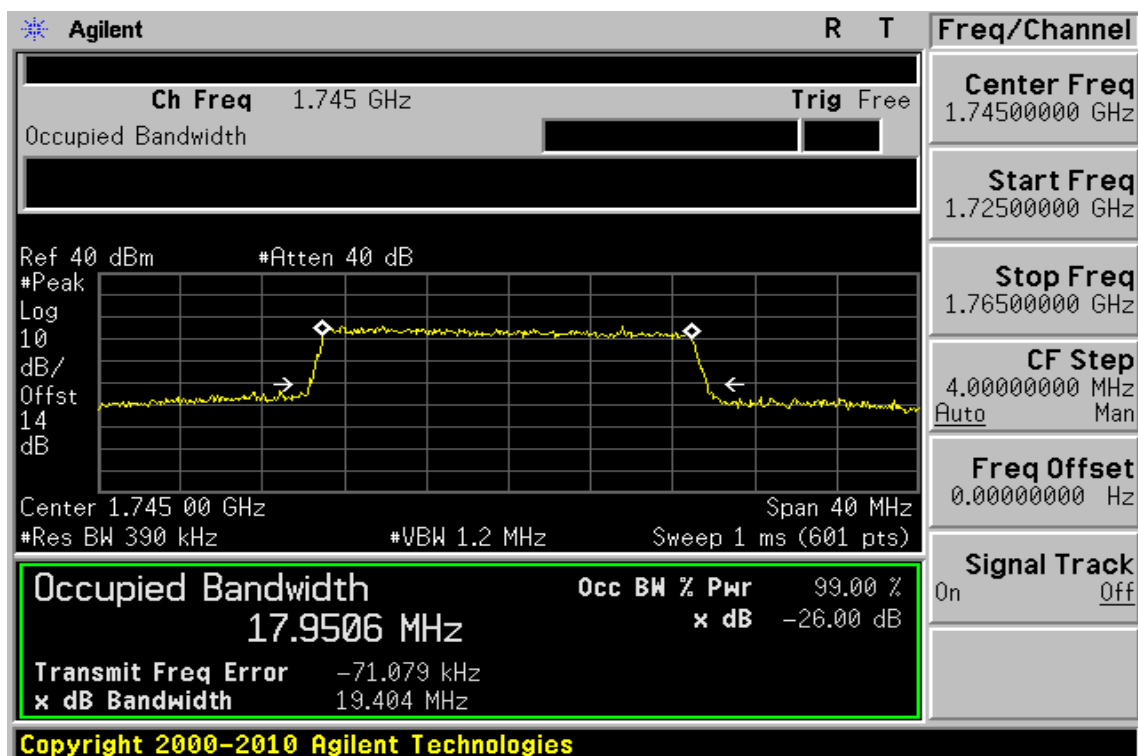
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20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel Mid



20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel High



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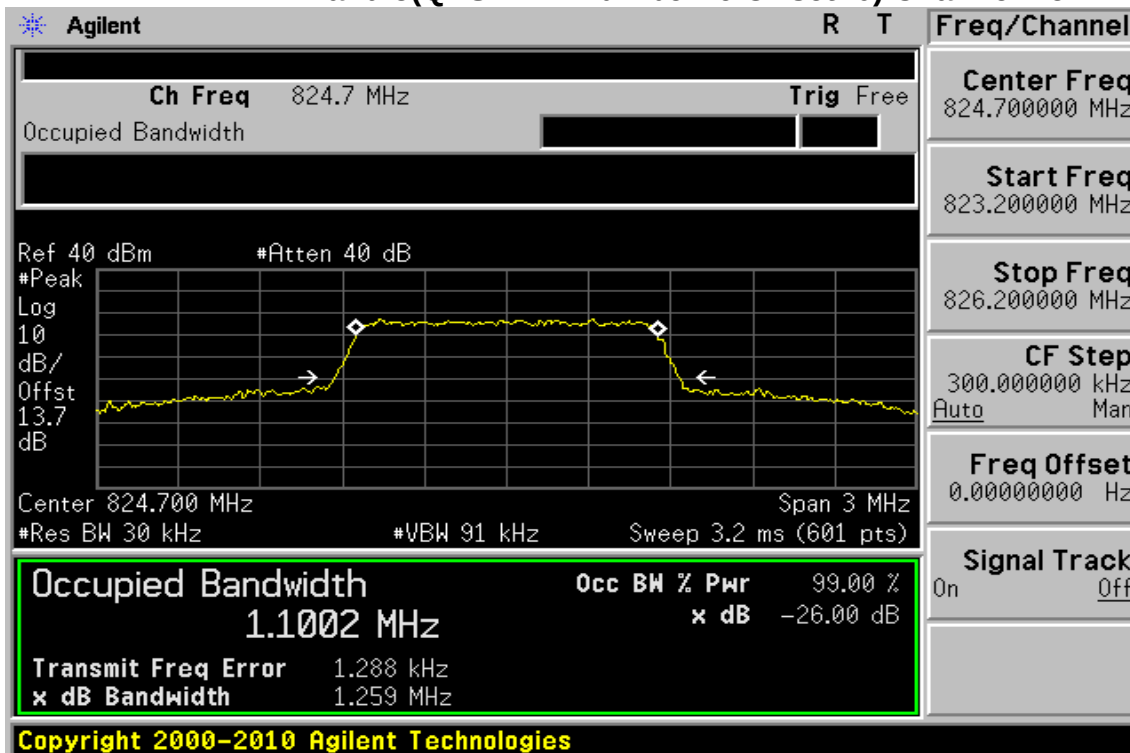
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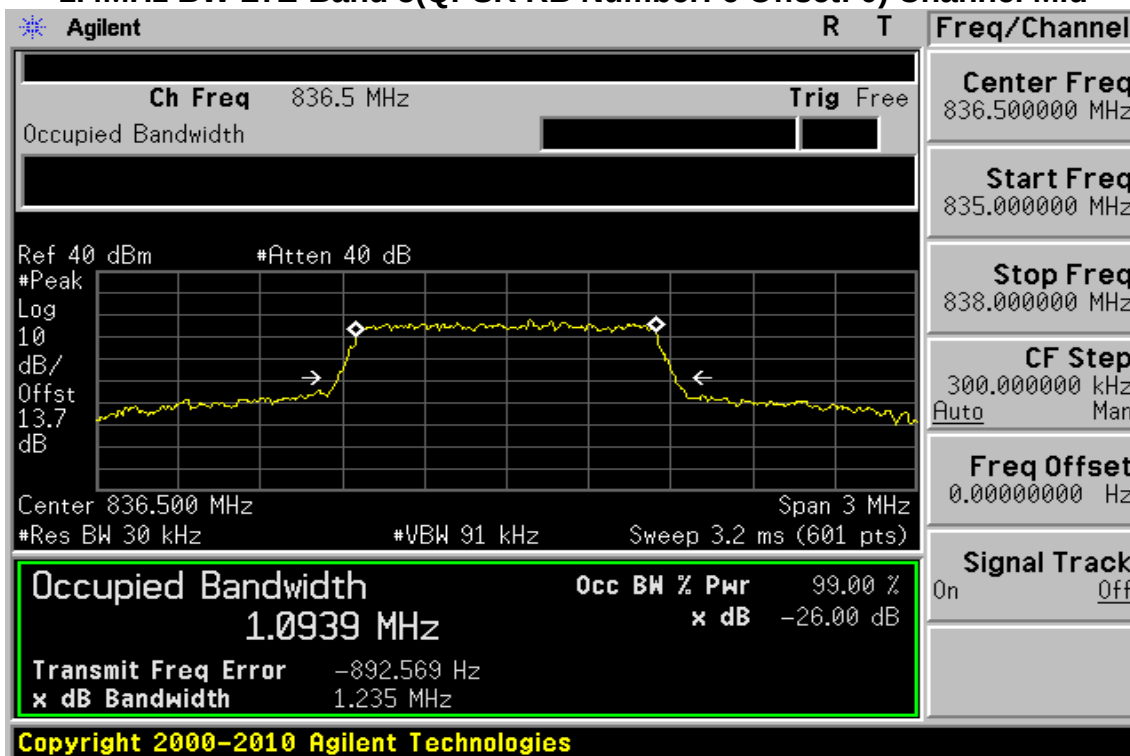
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1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Mid



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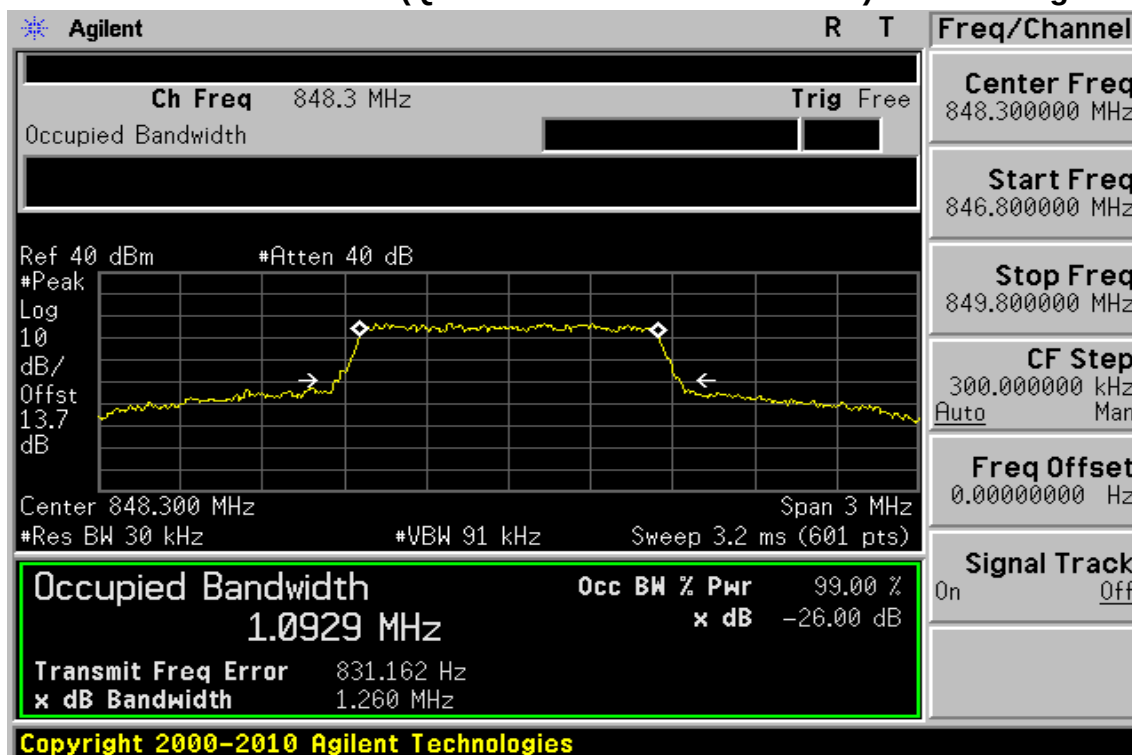
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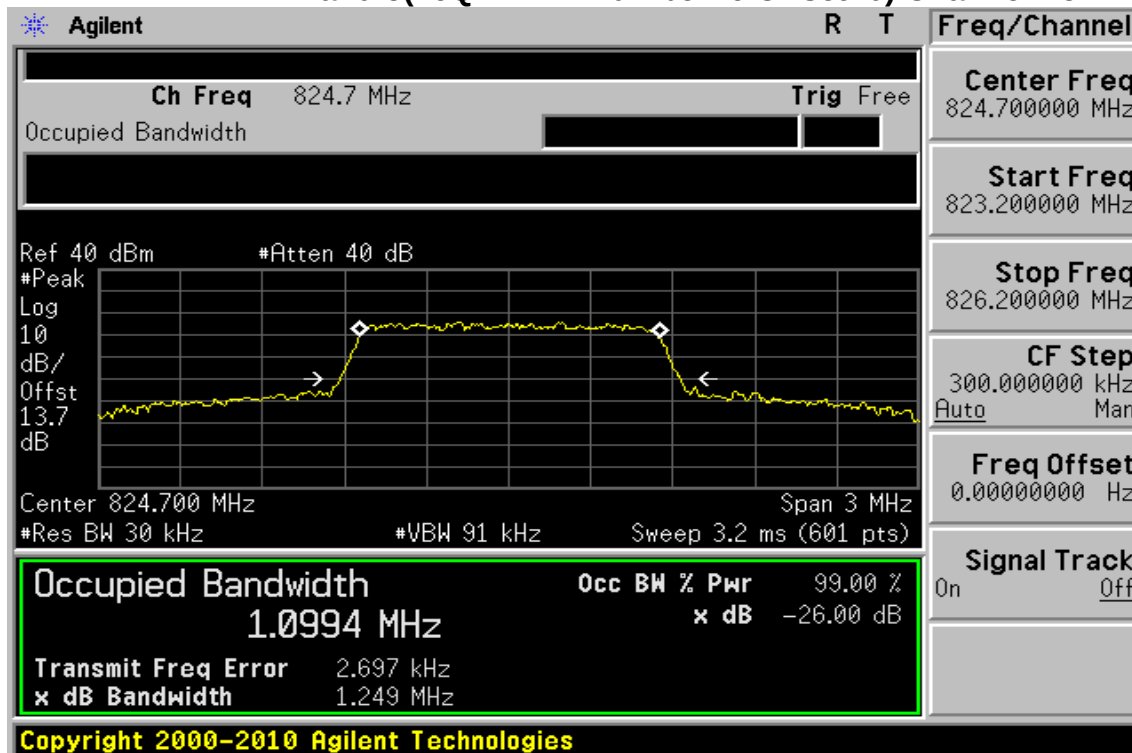
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1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel High



1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel Low



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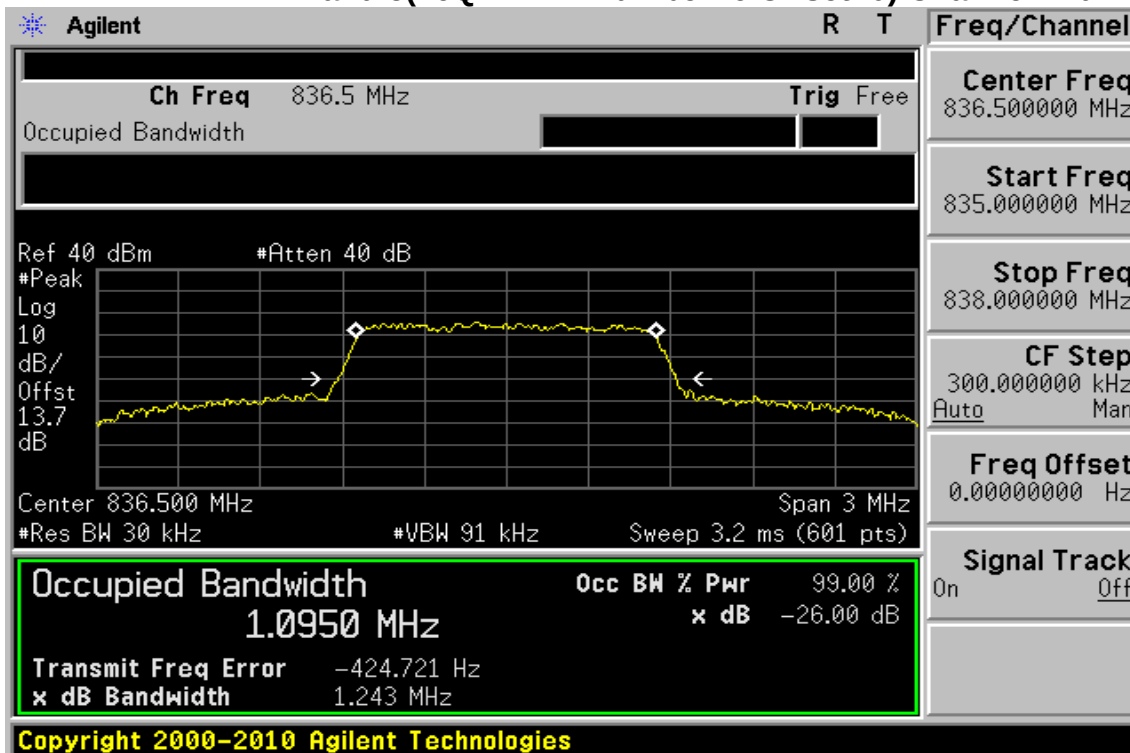
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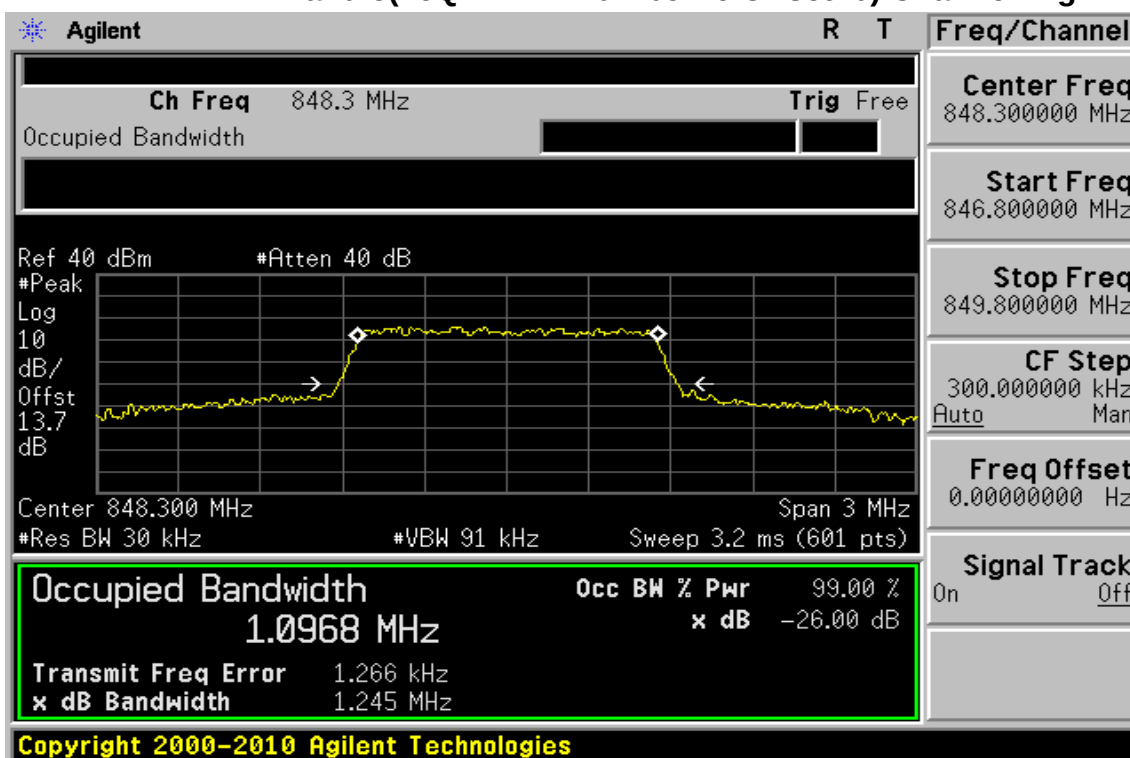
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1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel Mid



1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel High



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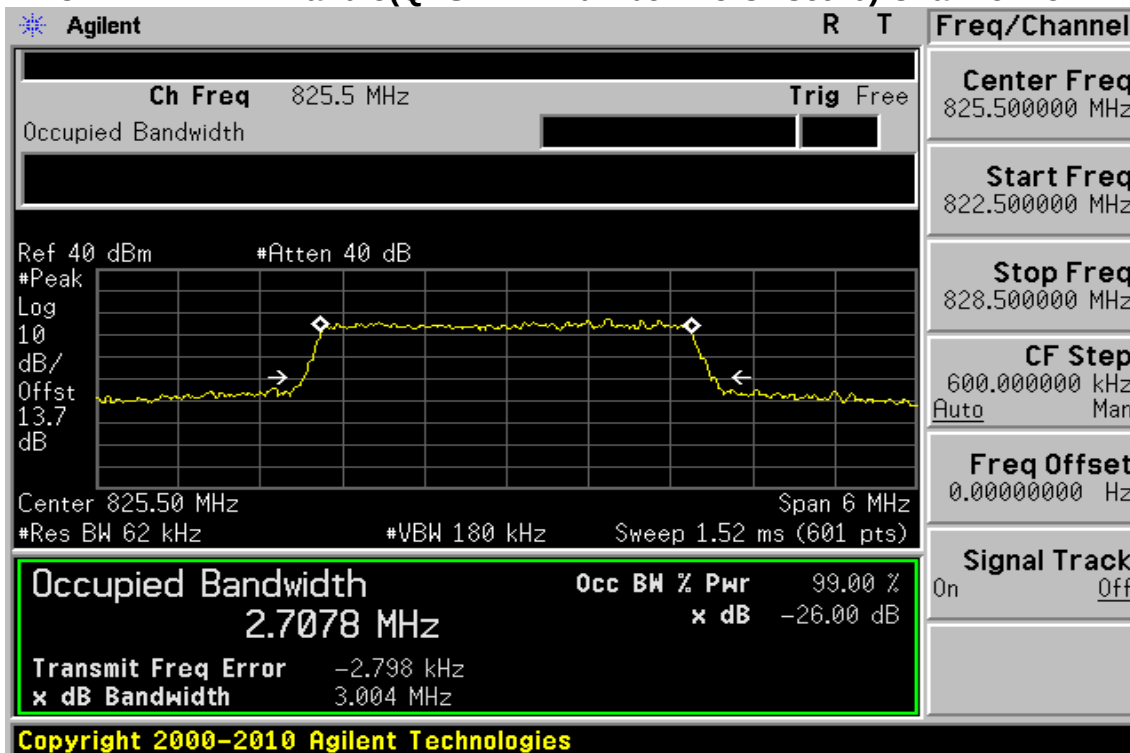
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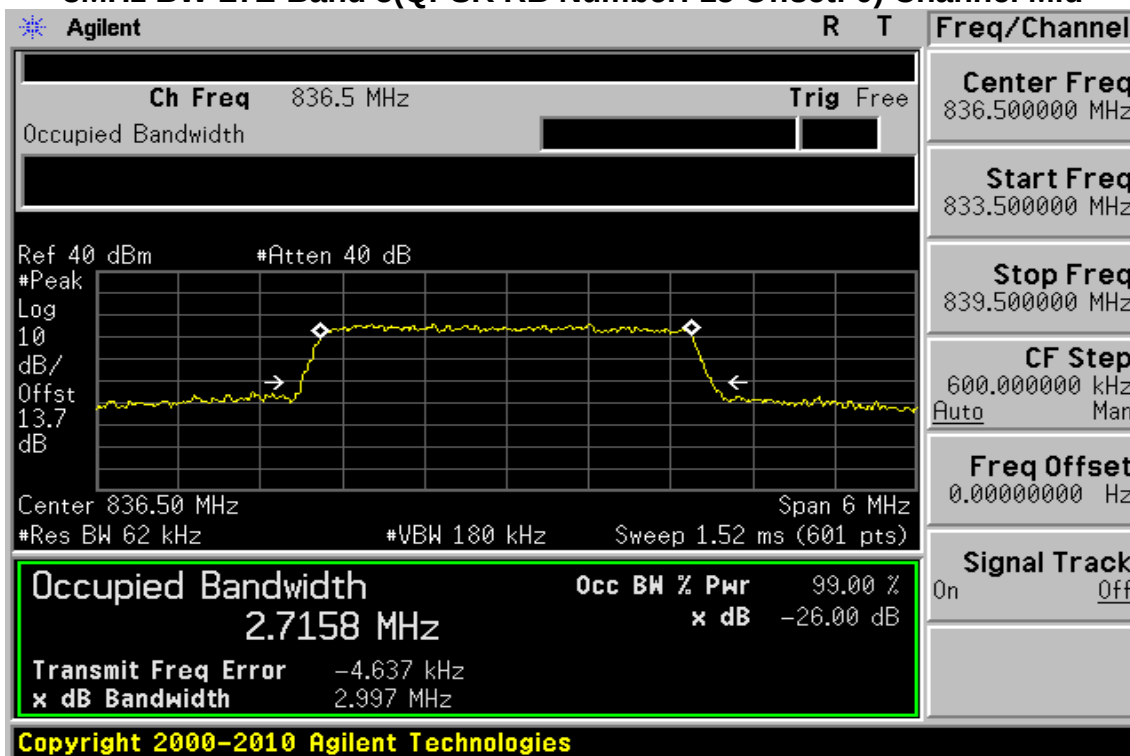
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3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel Low



3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel Mid



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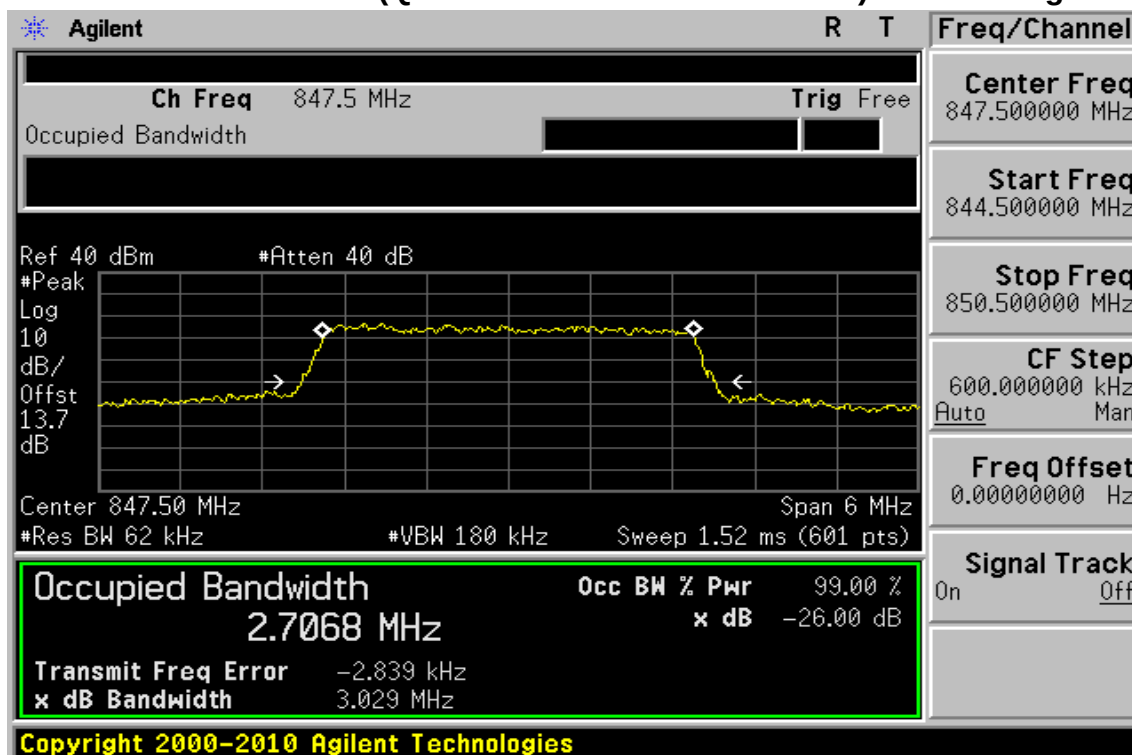
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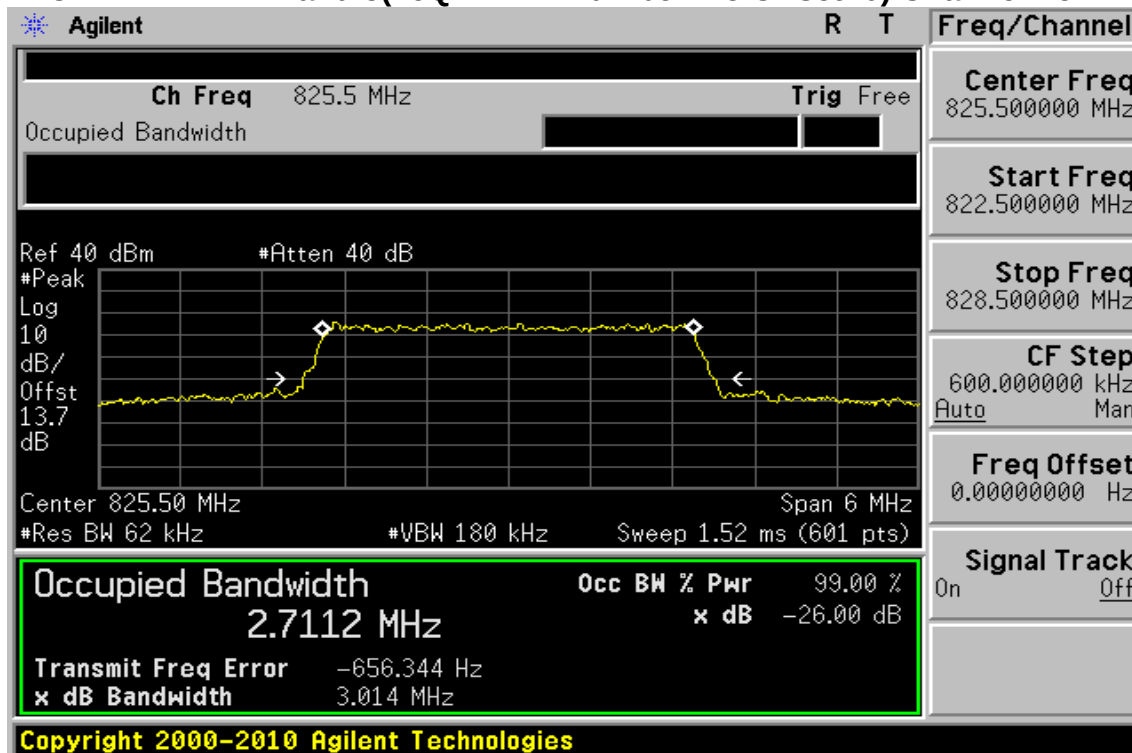
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3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel High



3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel Low



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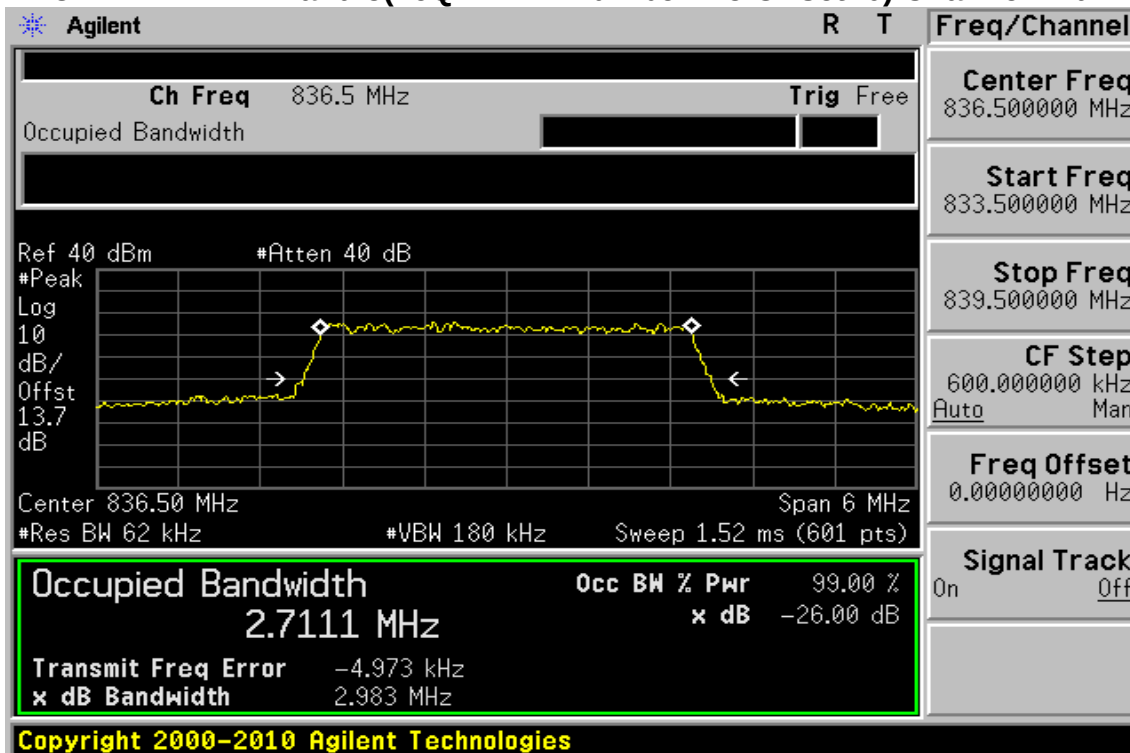
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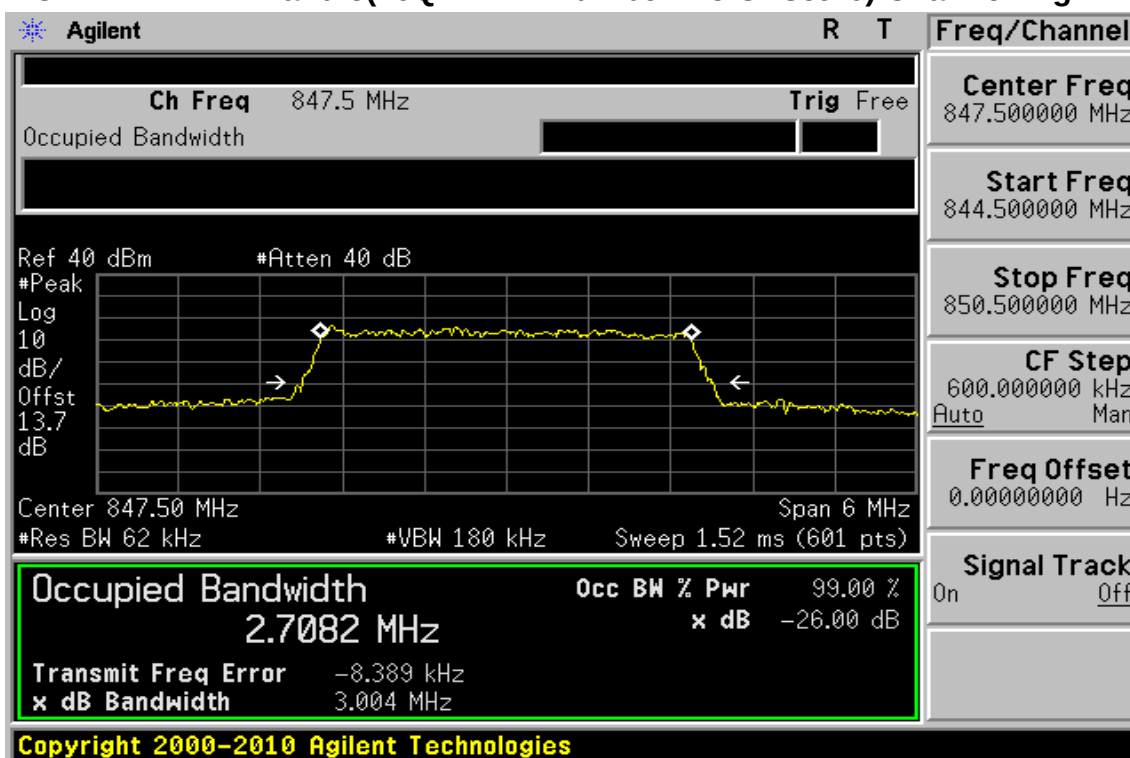
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3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel Mid



3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel High



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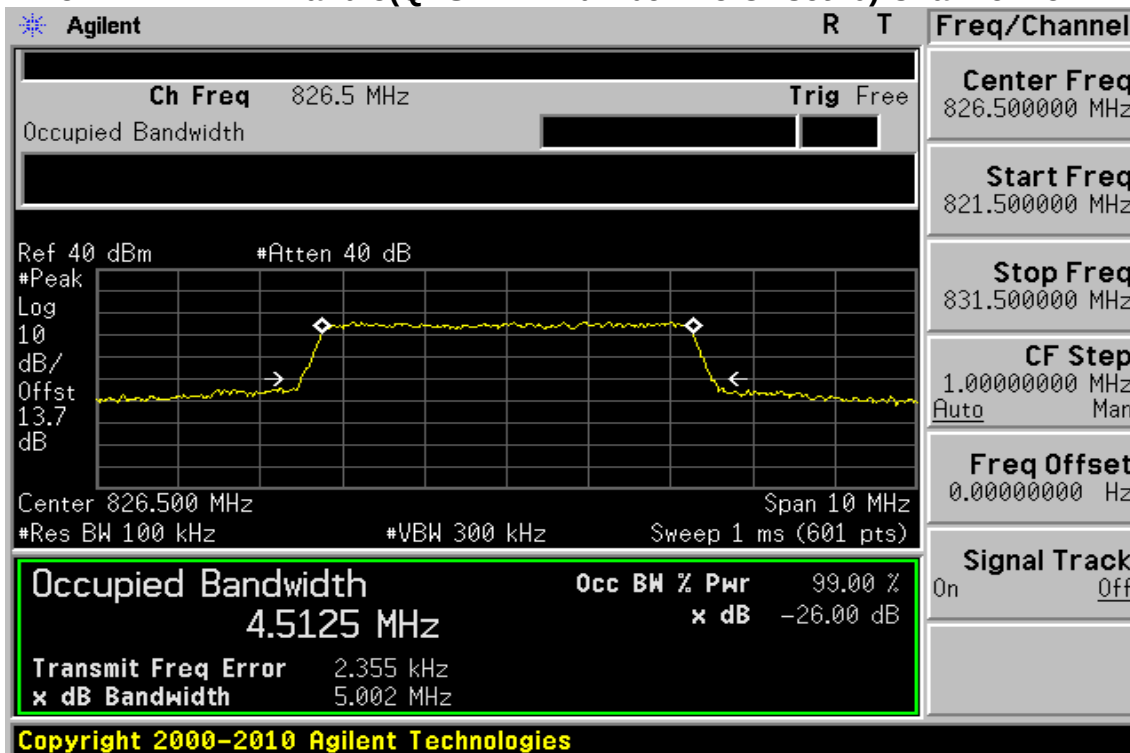
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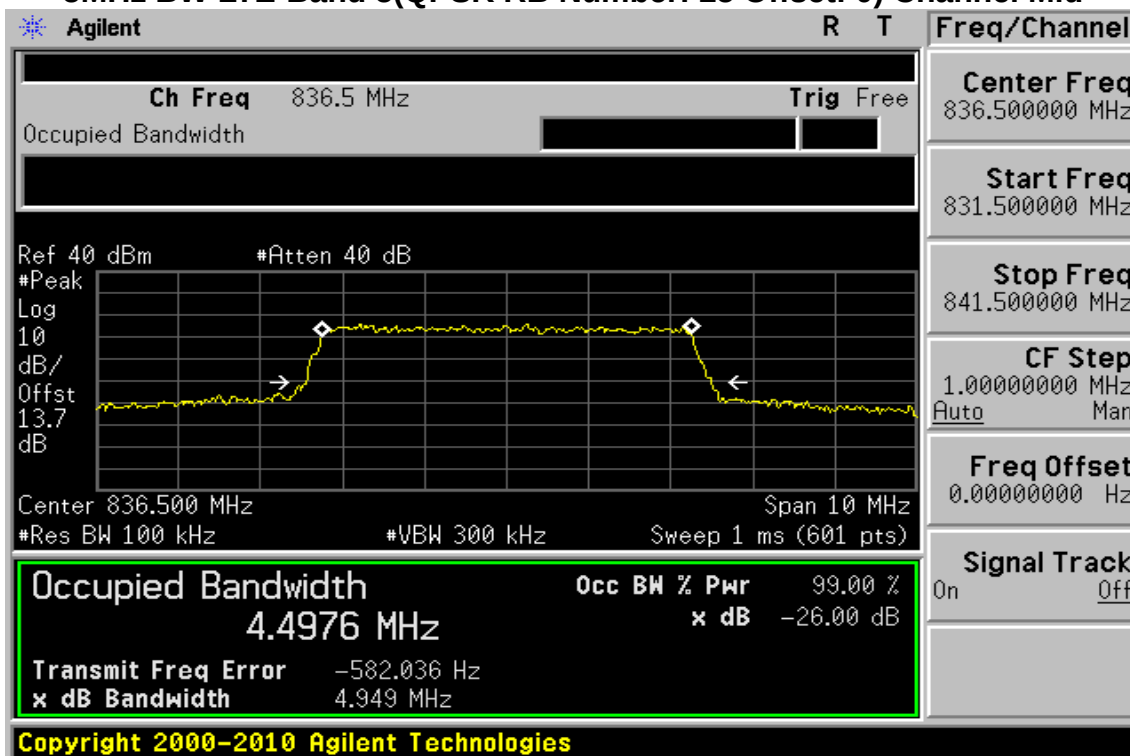
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5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel Mid



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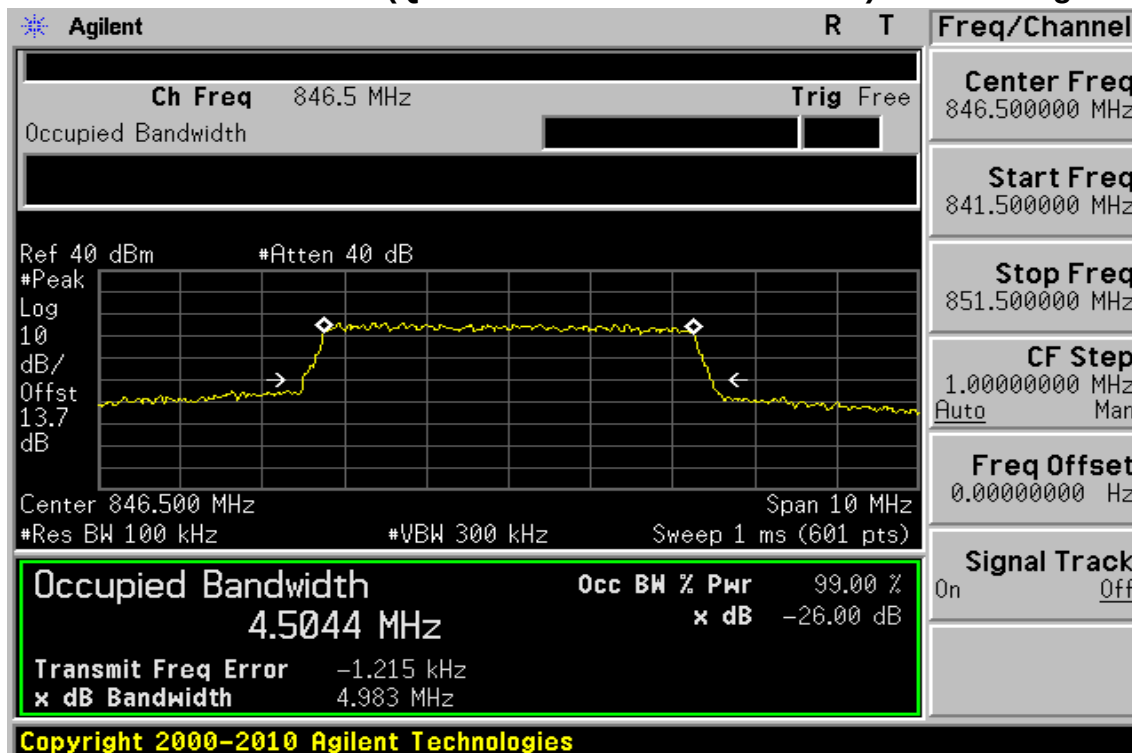
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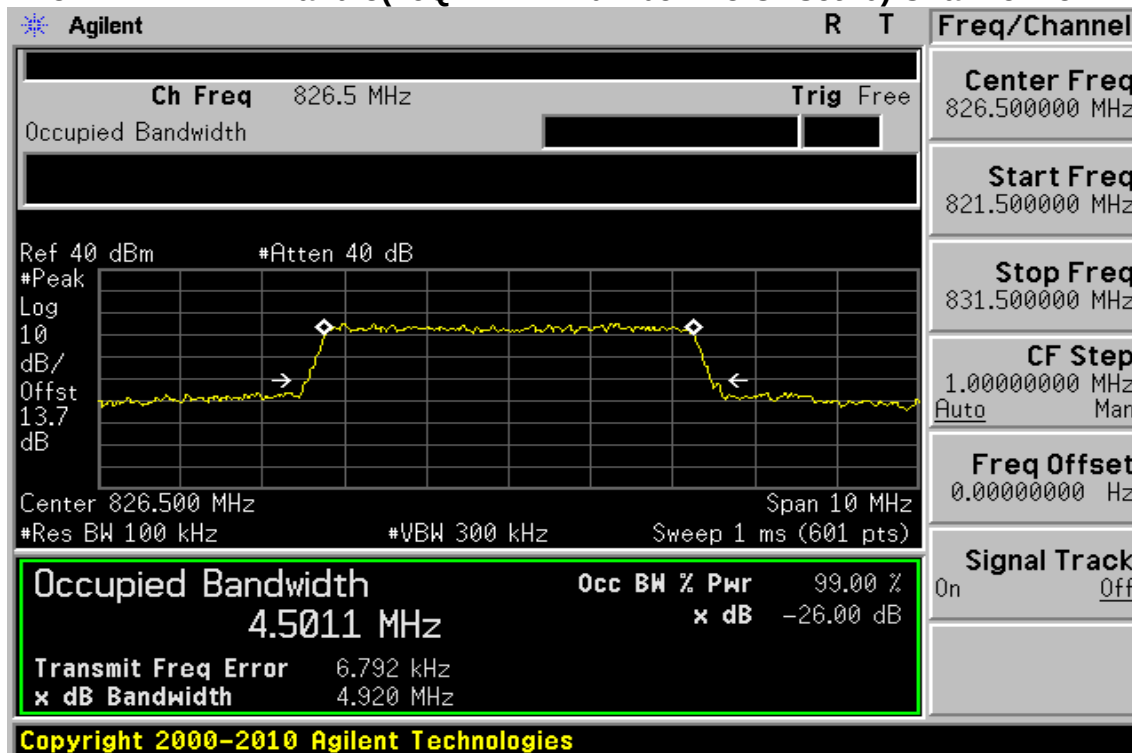
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5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel Low



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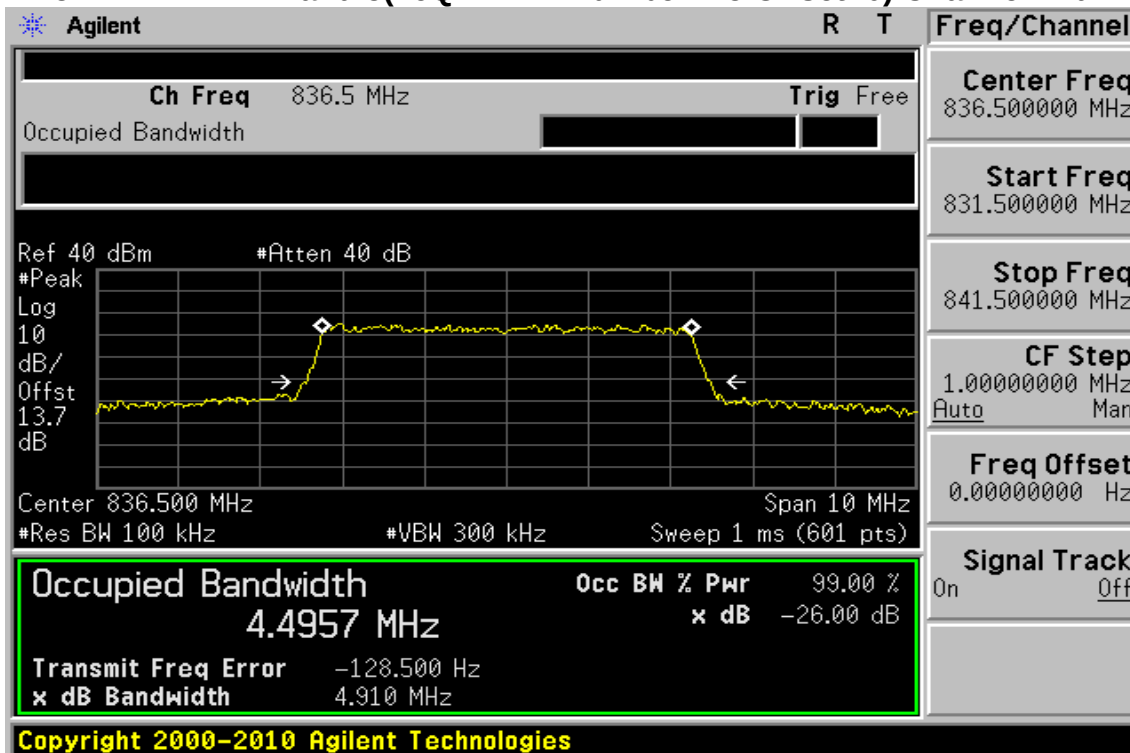
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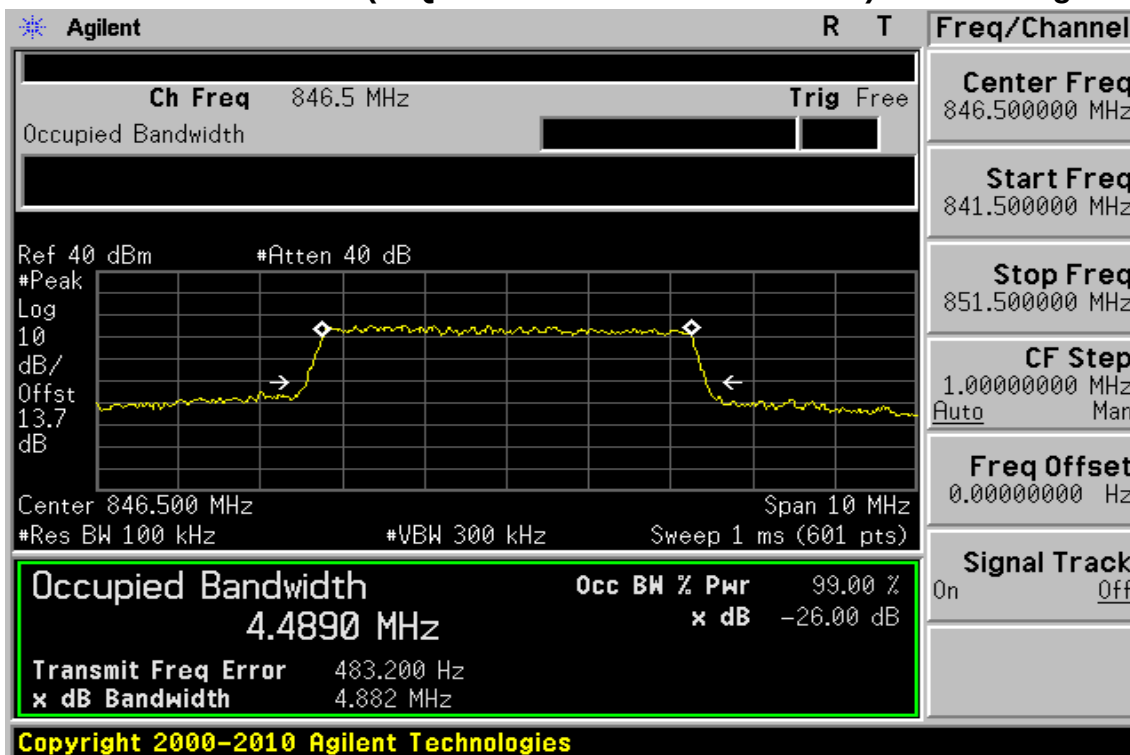
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5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel High



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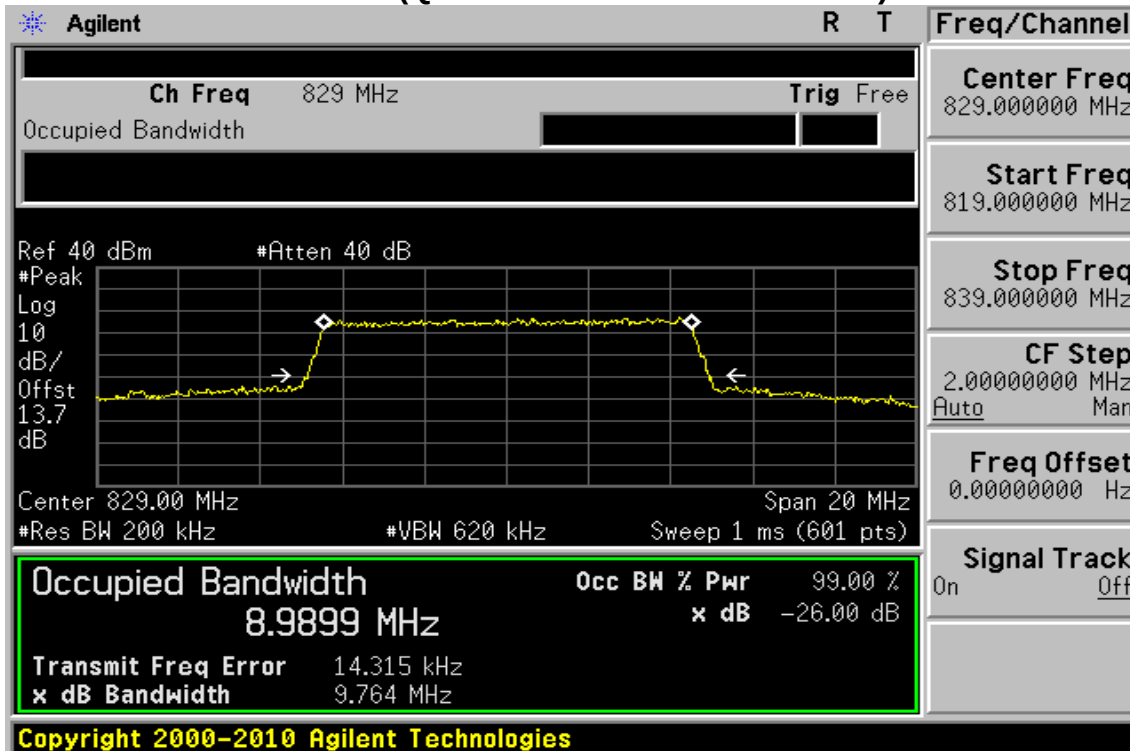
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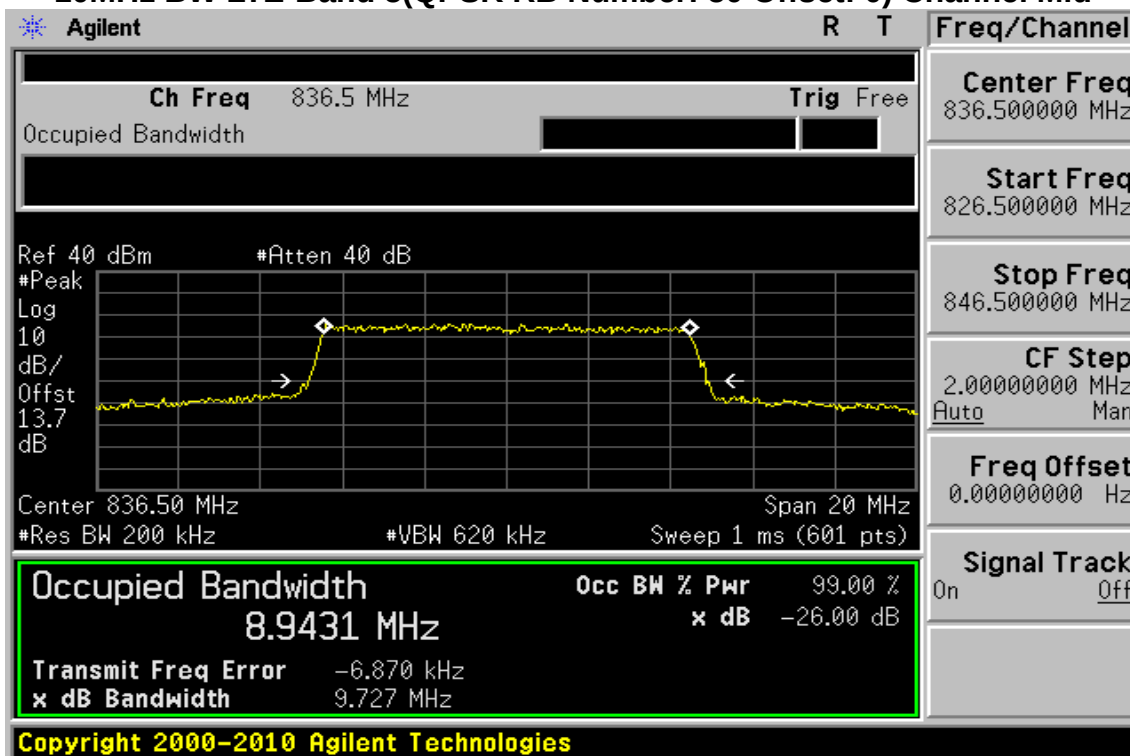
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10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel Mid



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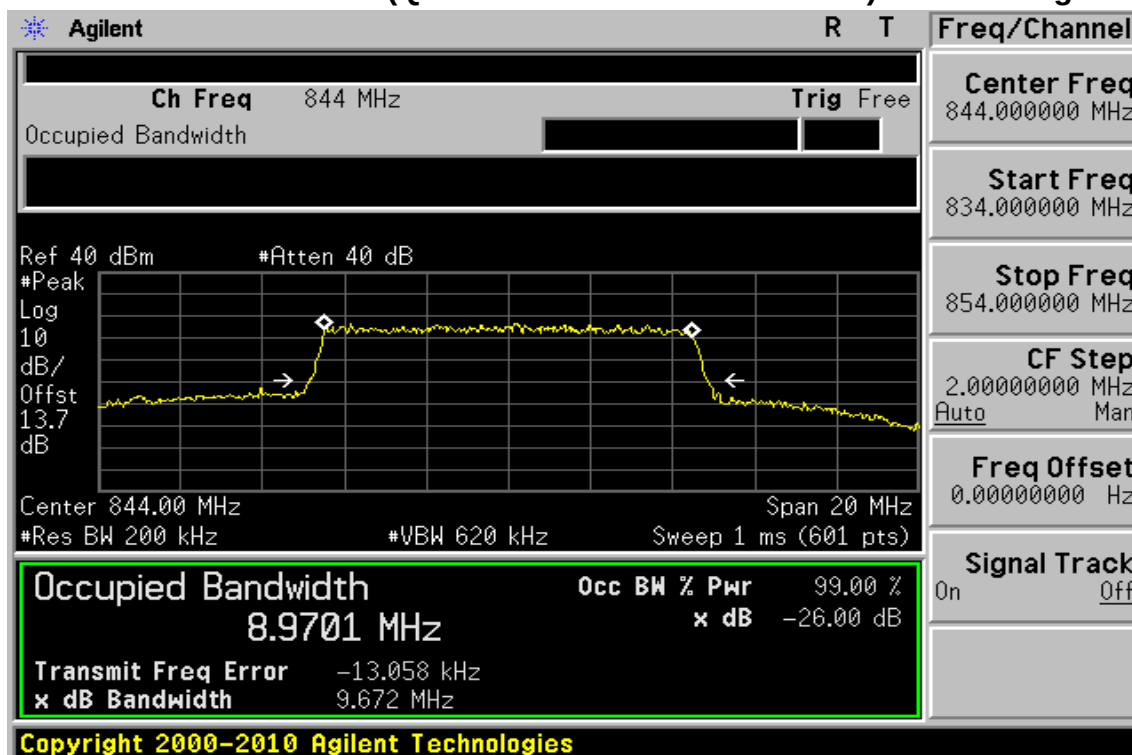
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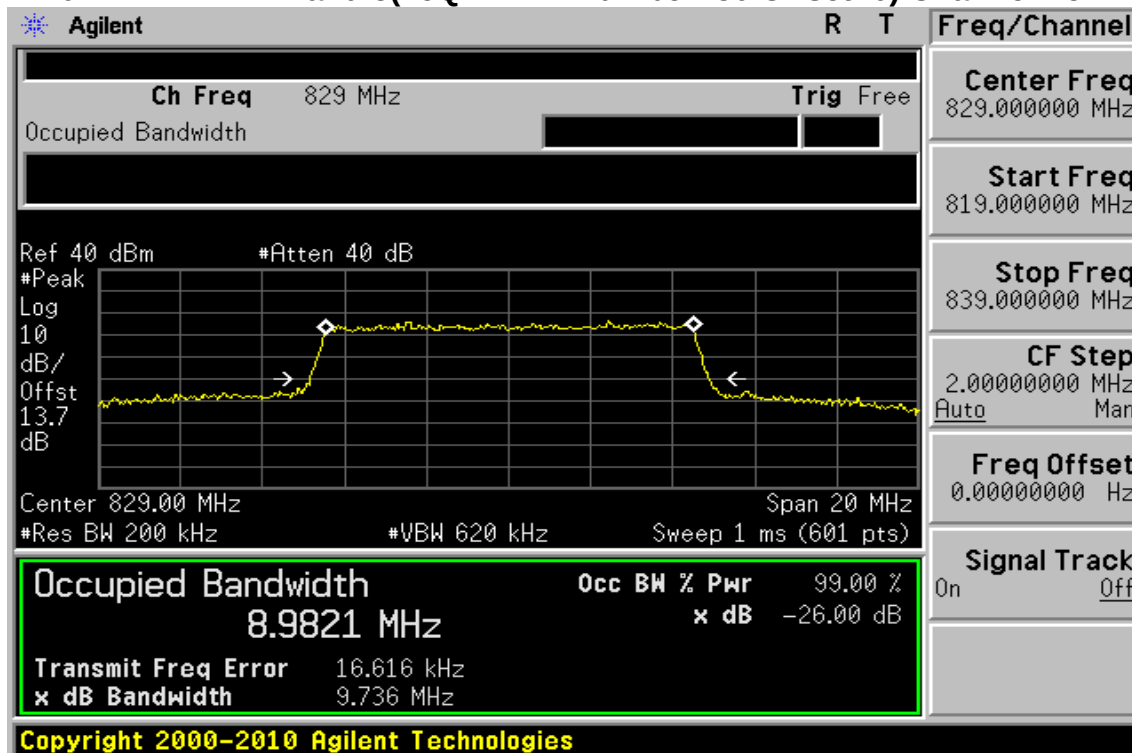
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10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel Low



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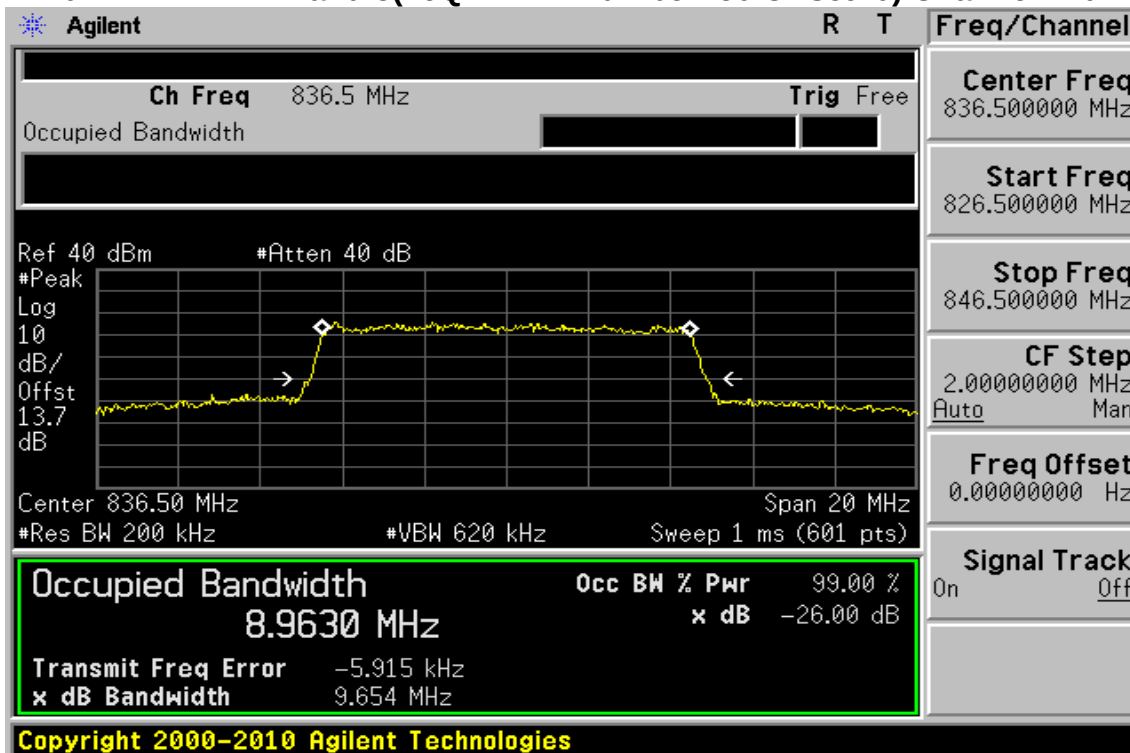
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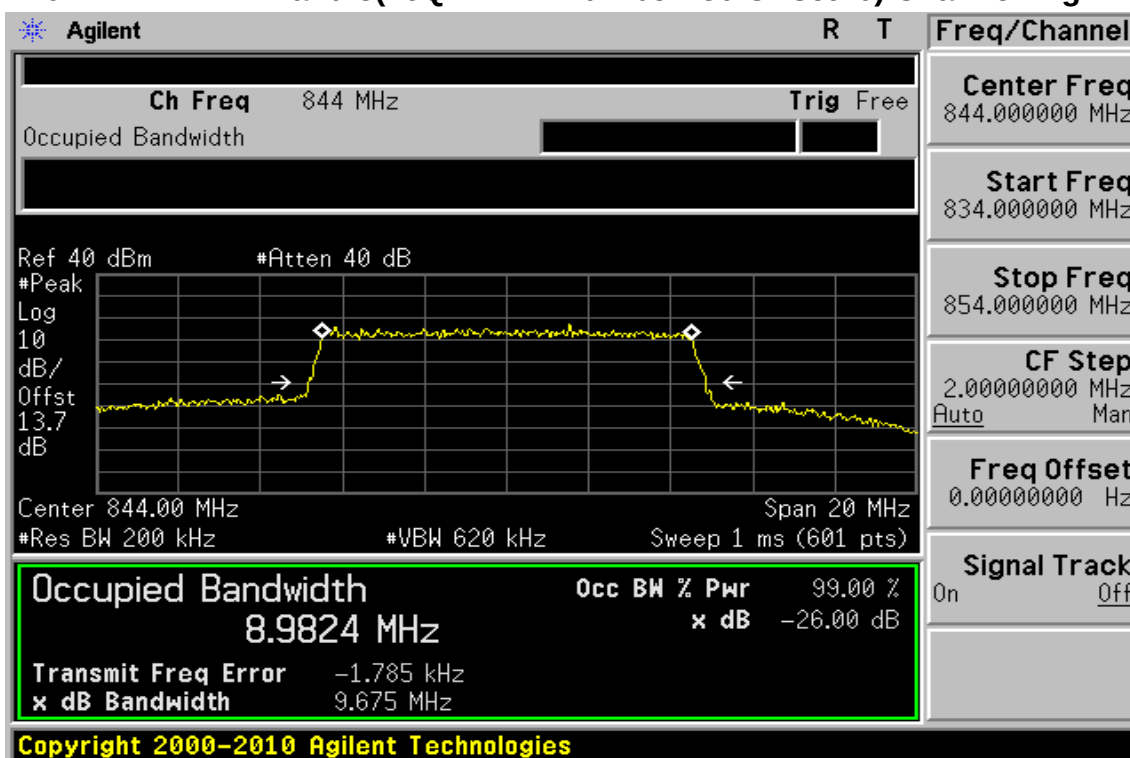
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10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel High



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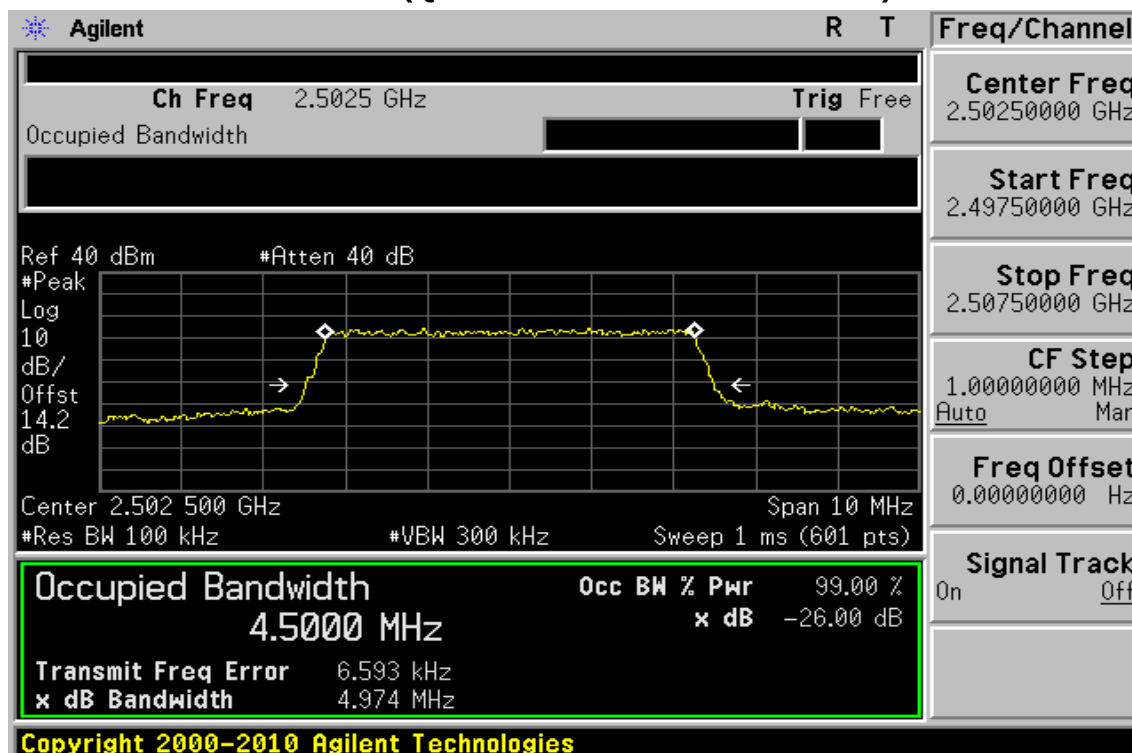
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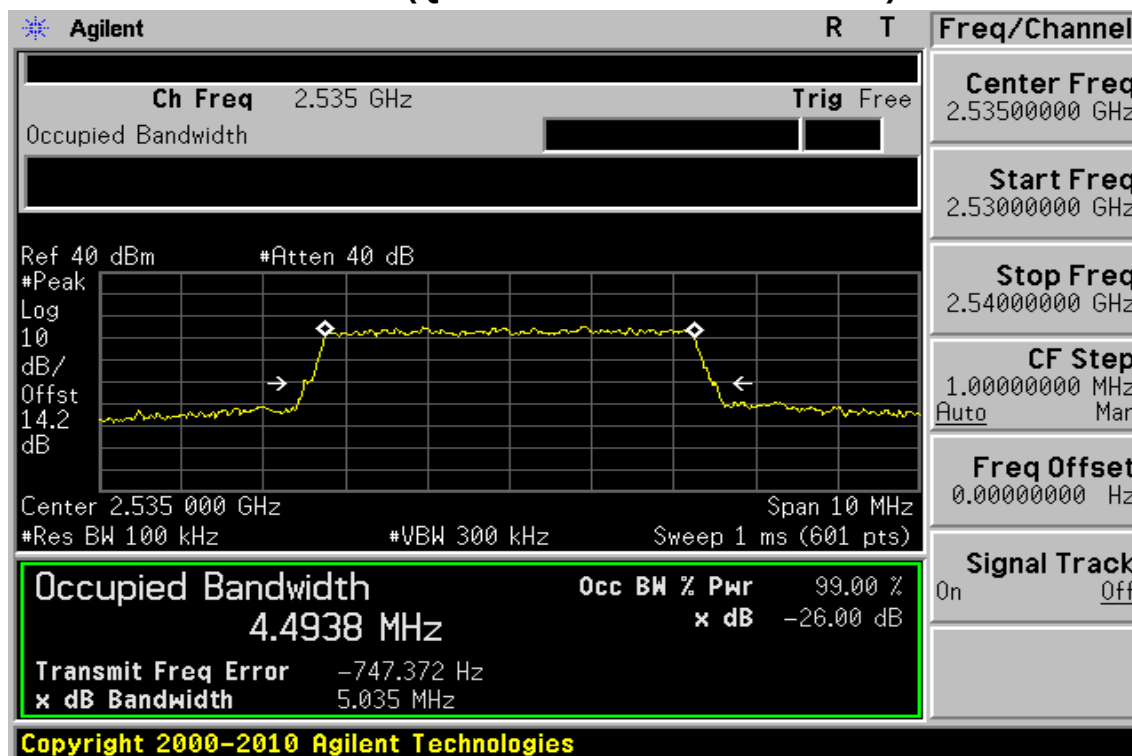
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5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Mid



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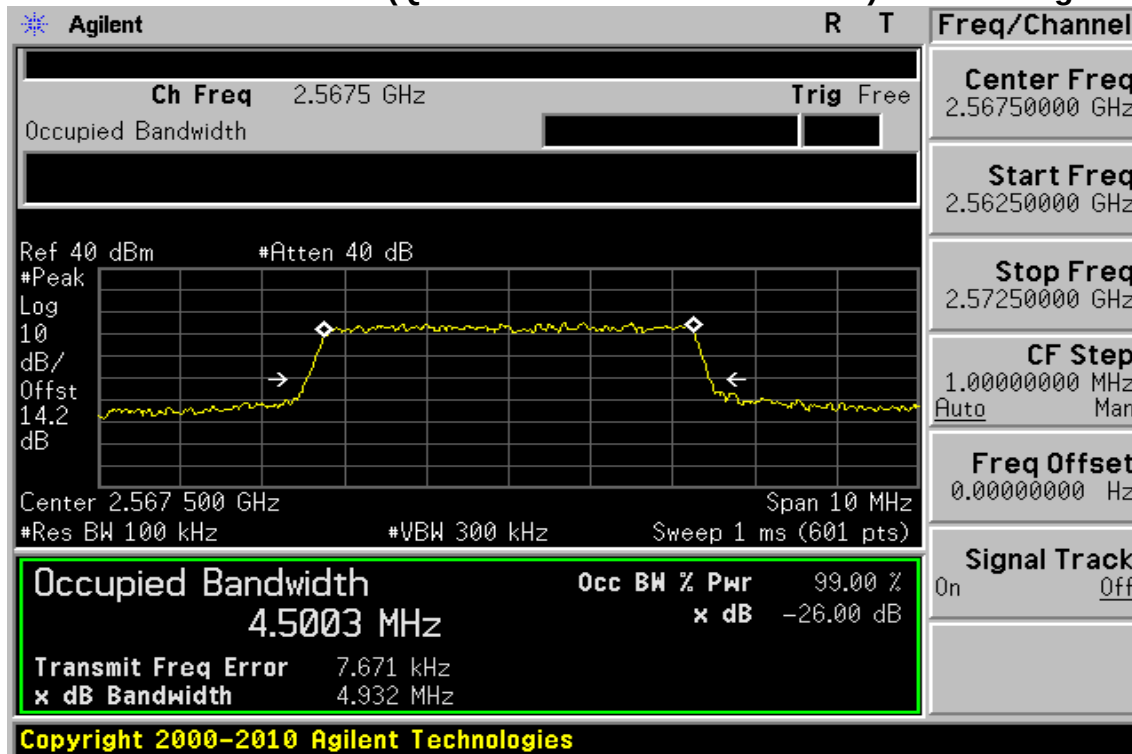
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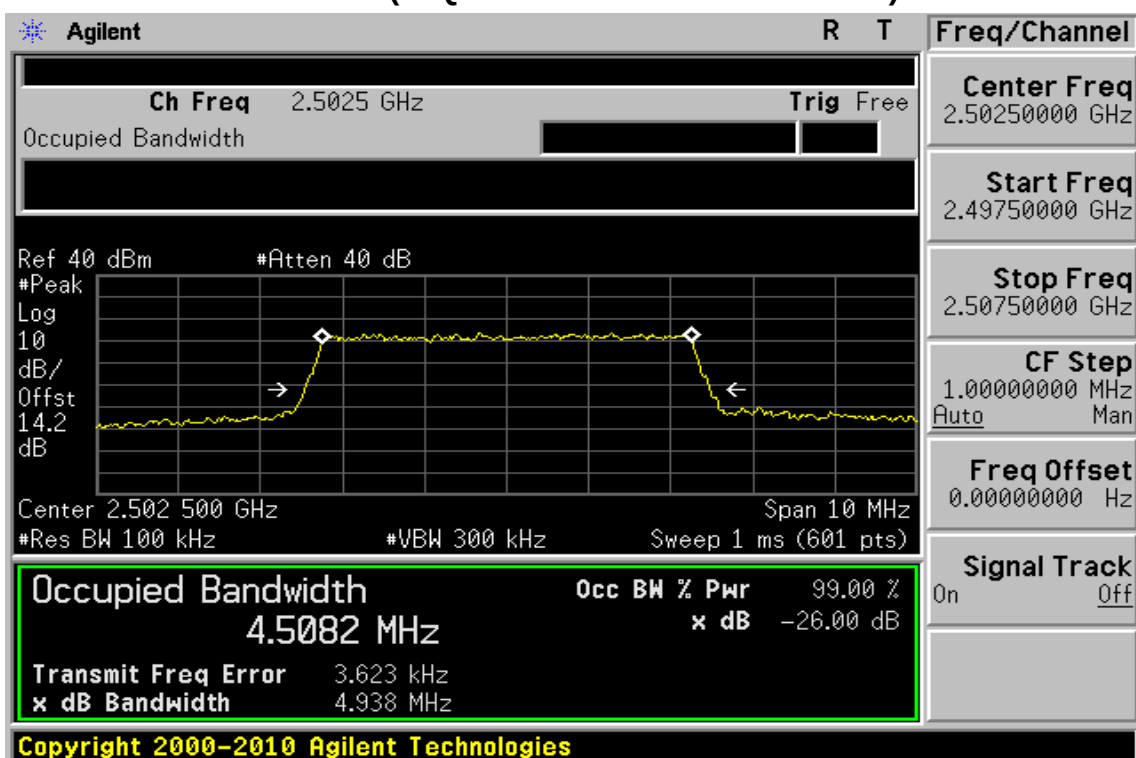
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5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel Low



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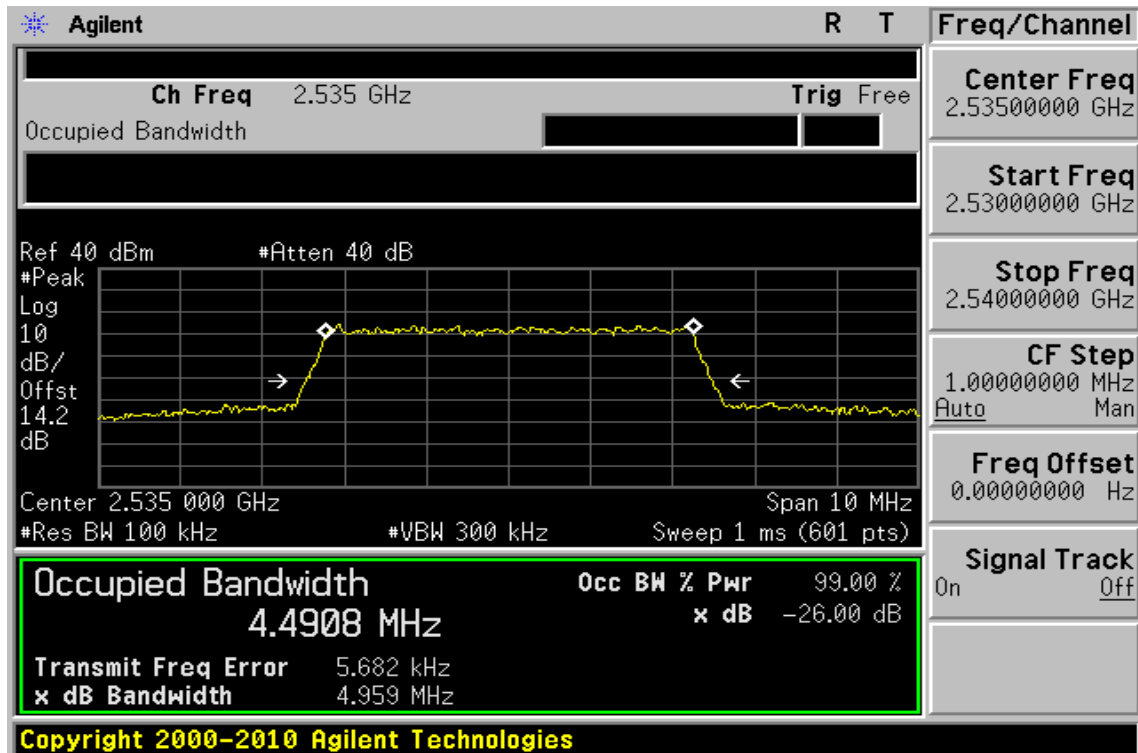
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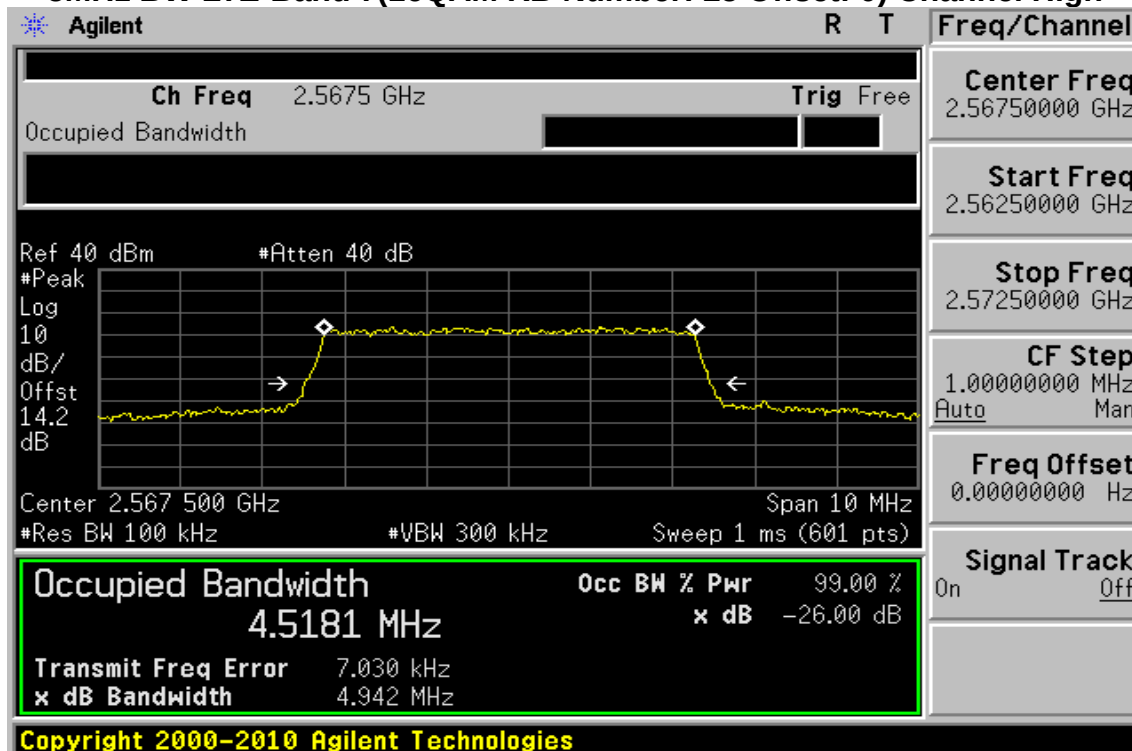
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5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel High



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