

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO

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

OF

Product Name:	Rugged Handheld Computer
Brand Name:	unitech
Model No.:	PA720
Model Difference:	N/A
FCC ID:	HLEPA720BTNFL
Report No.:	ER/2016/60096
Issue Date:	Jul. 08, 2016
FCC Rule Part:	2 , 22H & 24E & 27C & L
Prepared for:	unitech electronics co., ltd. 5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist., New Taipei City, Taiwan
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: unitech electronics co., ltd.
5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist., New Taipei City, Taiwan

Product Name: Rugged Handheld Computer

Brand Name: unitech

Model No.: PA720

Model Difference: N/A

FCC ID: HLEPA720BTNFL

File Number: ER/2016/60096

Date of test: Jun. 16, 2016 ~ Jul. 08, 2016

Date of EUT Received: Jun. 16, 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:

Marcus Tseng

Date:

Jul. 08, 2016

Marcus Tseng / Sr. Engineer

Prepared By:

Tiffany Kao

Date:

Jul. 08, 2016

Tiffany Kao / Clerk

Approved By:

Jim Chang

Date:

Jul. 08, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2016/60096	Rev.00	Initial creation of document	Jul. 08, 2016

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Rugged Handheld Computer	
Brand Name:	unitech	
Model No.:	PA720	
Model Difference:	N/A	
Product SW/HW version:	298 / R004	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
USB Charging cable:	Model No.: N/A, Supplier: N/A	
Power Supply:	3.6Vdc from Rechargeable Li-polymer Battery or 5V from AC/DC Adapter	
	Battery:	Model No.: 1400-900035G, Supplier: WELLTECH TECHNOLOGY
	Adapter :	Model No.: PSA10F-050Q, Supplier Phi Hong

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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	32.5dBm
	EDGE 850	824.2 MHz– 848.8 MHz	27dBm
	GSM/GPRS 1900	1850.2MHz – 1909.8MHz	29.5dBm
	EDGE 1900	1850.2MHz – 1909.8MHz	26dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	23dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	23dBm
	LTE-Band 2 (Bandwidth 1.4MHz)	1850.7MHz– 1909.3MHz	22.5dBm
	LTE-Band 2 (Bandwidth 3MHz)	1851.5MHz – 1908.5MHz	22.5dBm
	LTE-Band 2 (Bandwidth 5MHz)	1852.5MHz – 1907.5MHz	22.5dBm
	LTE-Band 2 (Bandwidth 10MHz)	1855.0MHz – 1905.0MHz	22.5dBm
	LTE-Band 2 (Bandwidth 15MHz)	1857.5MHz – 1902.5MHz	22.5dBm
	LTE-Band 2 (Bandwidth 20MHz)	1860.0MHz – 1900.0MHz	22.5dBm
	LTE-Band 5 (Bandwidth 1.4MHz)	824.7MHz – 848.3MHz	22.5dBm
	LTE-Band 5 (Bandwidth 3MHz)	825.5MHz – 847.5MHz	22.5dBm
	LTE-Band 5 (Bandwidth 5MHz)	826.5MHz – 846.5MHz	22.5dBm
	LTE-Band 5 (Bandwidth 10MHz)	829.0MHz – 844.0MHz	22.5dBm

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Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	LTE-Band 7 (Bandwidth 5MHz)	2502.5MHz – 2567.5MHz	22.5dBm
	LTE-Band 7 (Bandwidth 10MHz)	2505.0MHz – 2565.0MHz	22.5dBm
	LTE-Band 7 (Bandwidth 15MHz)	2507.5MHz – 2562.5MHz	22.5dBm
	LTE-Band 7 (Bandwidth 20MHz)	2510.0MHz – 2560MHz	22.5dBm
	LTE-Band 38 (Bandwidth 5MHz)	2572.5MHz – 2617.5MHz	22.5dBm
	LTE-Band 38 (Bandwidth 10MHz)	2575MHz – 2615MHz	22.5dBm
	LTE-Band 38 (Bandwidth 15MHz)	2577.5MHz – 2612.5MHz	22.5dBm
	LTE-Band 38 (Bandwidth 20MHz)	2580MHz – 2610MHz	22.5dBm
	LTE-Band 41 (Bandwidth 5MHz)	2557.5MHz – 2652.5MHz	22.5dBm
	LTE-Band 41 (Bandwidth 10MHz)	2560MHz – 2650MHz	22.5dBm
	LTE-Band 41 (Bandwidth 15MHz)	2562.5 MHz – 2647.5 MHz	22.5dBm
	LTE-Band 41 (Bandwidth 20MHz)	2565 MHz – 2645 MHz	22.5dBm

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Type of Emission:

Frequency Band	Type of Emission:
GSM 850	249KGXW
GPRS 850	244KGXW
EDGE 850	249KG7W
GSM 1900	248KGXW
GPRS 1900	246KGXW
EDGE 1900	256KG7W
WCDMA Band II	4M21F9W
WCDMA Band V	4M21F9W
HSDPA Band II	4M21F9W
HSDPA Band V	4M22F9W
HSUPA Band II	4M22F9W
HSUPA Band V	4M22F9W

LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 2	1.4MHz	QPSK	1M10G7D
LTE Band 2	1.4MHz	16QAM	1M11D7W
LTE Band 2	3MHz	QPSK	2M71G7D
LTE Band 2	3MHz	16QAM	2M70D7W
LTE Band 2	5MHz	QPSK	4M52G7D
LTE Band 2	5MHz	16QAM	4M52D7W
LTE Band 2	10MHz	QPSK	9M03G7D
LTE Band 2	10MHz	16QAM	8M98D7W
LTE Band 2	15MHz	QPSK	13M5G7D
LTE Band 2	15MHz	16QAM	13M5D7W
LTE Band 2	20MHz	QPSK	17M9G7D
LTE Band 2	20MHz	16QAM	17M9D7W
LTE Band 5	1.4MHz	QPSK	1M10G7D
LTE Band 5	1.4MHz	16QAM	1M10D7W
LTE Band 5	3MHz	QPSK	2M71G7D
LTE Band 5	3MHz	16QAM	2M71D7W
LTE Band 5	5MHz	QPSK	4M51G7D
LTE Band 5	5MHz	16QAM	4M52D7W
LTE Band 5	10MHz	QPSK	9M02G7D
LTE Band 5	10MHz	16QAM	8M98D7W

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LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 7	5MHz	QPSK	4M52G7D
LTE Band 7	5MHz	16QAM	4M52D7W
LTE Band 7	10MHz	QPSK	8M98G7D
LTE Band 7	10MHz	16QAM	8M98D7W
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 38	5MHz	QPSK	4M53G7D
LTE Band 38	5MHz	16QAM	4M52D7W
LTE Band 38	10MHz	QPSK	8M98G7D
LTE Band 38	10MHz	16QAM	8M98D7W
LTE Band 38	15MHz	QPSK	13M5G7D
LTE Band 38	15MHz	16QAM	13M5D7W
LTE Band 38	20MHz	QPSK	18M0G7D
LTE Band 38	20MHz	16QAM	18M0D7W
LTE Band 41	5MHz	QPSK	4M52G7D
LTE Band 41	5MHz	16QAM	4M52D7W
LTE Band 41	10MHz	QPSK	8M96G7D
LTE Band 41	10MHz	16QAM	8M96D7W
LTE Band 41	15MHz	QPSK	13M5G7D
LTE Band 41	15MHz	16QAM	13M5D7W
LTE Band 41	20MHz	QPSK	17M9G7D
LTE Band 41	20MHz	16QAM	18M0D7W

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Max ERP/EIRP Power Measurement Result:

	dBm		W
GSM 850	22.29	ERP	0.169
GPRS 850	25.02	ERP	0.318
EDGE 850	24.23	ERP	0.265
GSM 1900	27.27	EIRP	0.533
GPRS 1900	27.66	EIRP	0.583
EDGE 1900	26.53	EIRP	0.450
WCDMA Band II	25.62	EIRP	0.365
WCDMA Band V	23.37	ERP	0.217
HSDPA Band II	28.24	EIRP	0.667
HSDPA Band V	26.00	ERP	0.398
HSUPA Band II	27.29	EIRP	0.536
HSUPA Band V	24.80	ERP	0.302
LTE-Band 2 (Bandwidth 1.4MHz) QPSK	24.51	EIRP	0.282
LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	25.62	EIRP	0.365
LTE-Band 2 (Bandwidth 3MHz) QPSK	24.39	EIRP	0.275
LTE-Band 2 (Bandwidth 3MHz) 16QAM	25.41	EIRP	0.348
LTE-Band 2 (Bandwidth 5MHz) QPSK	24.35	EIRP	0.272
LTE-Band 2 (Bandwidth 5MHz) 16QAM	25.66	EIRP	0.368
LTE-Band 2 (Bandwidth 10MHz) QPSK	24.45	EIRP	0.279
LTE-Band 2 (Bandwidth 10MHz) 16QAM	25.74	EIRP	0.375
LTE-Band 2 (Bandwidth 15MHz) QPSK	24.91	EIRP	0.310
LTE-Band 2 (Bandwidth 15MHz) 16QAM	26.01	EIRP	0.399
LTE-Band 2 (Bandwidth 20MHz) QPSK	23.89	EIRP	0.245
LTE-Band 2 (Bandwidth 20MHz) 16QAM	25.28	EIRP	0.337

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	dBm		W
LTE-Band 5 (Bandwidth 1.4MHz) QPSK	21.66	ERP	0.147
LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	22.86	ERP	0.193
LTE-Band 5 (Bandwidth 3MHz) QPSK	21.67	ERP	0.147
LTE-Band 5 (Bandwidth 3MHz) 16QAM	22.94	ERP	0.197
LTE-Band 5 (Bandwidth 5MHz) QPSK	21.53	ERP	0.142
LTE-Band 5 (Bandwidth 5MHz) 16QAM	22.76	ERP	0.189
LTE-Band 5 (Bandwidth 10MHz) QPSK	21.55	ERP	0.143
LTE-Band 5 (Bandwidth 10MHz) 16QAM	22.81	ERP	0.191
LTE-Band 7 (Bandwidth 5MHz) QPSK	24.83	EIRP	0.304
LTE-Band 7 (Bandwidth 5MHz) 16QAM	26.22	EIRP	0.419
LTE-Band 7 (Bandwidth 10MHz) QPSK	25.00	EIRP	0.316
LTE-Band 7 (Bandwidth 10MHz) 16QAM	26.43	EIRP	0.440
LTE-Band 7 (Bandwidth 15MHz) QPSK	25.09	EIRP	0.323
LTE-Band 7 (Bandwidth 15MHz) 16QAM	26.24	EIRP	0.421
LTE-Band 7 (Bandwidth 20MHz) QPSK	25.04	EIRP	0.319
LTE-Band 7 (Bandwidth 20MHz) 16QAM	26.08	EIRP	0.406
LTE-Band 38 (Bandwidth 5MHz) QPSK	29.91	EIRP	0.979
LTE-Band 38 (Bandwidth 5MHz) 16QAM	29.78	EIRP	0.951
LTE-Band 38 (Bandwidth 10MHz) QPSK	29.28	EIRP	0.847
LTE-Band 38 (Bandwidth 10MHz) 16QAM	28.73	EIRP	0.746
LTE-Band 38 (Bandwidth 15MHz) QPSK	29.31	EIRP	0.853
LTE-Band 38 (Bandwidth 15MHz) 16QAM	29.24	EIRP	0.839
LTE-Band 38 (Bandwidth 20MHz) QPSK	28.90	EIRP	0.776
LTE-Band 38 (Bandwidth 20MHz) 16QAM	28.99	EIRP	0.793

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	dBm		W
LTE-Band 41 (Bandwidth 5MHz) QPSK	28.92	EIRP	0.780
LTE-Band 41 (Bandwidth 5MHz) 16QAM	28.75	EIRP	0.750
LTE-Band 41 (Bandwidth 10MHz) QPSK	28.43	EIRP	0.697
LTE-Band 41 (Bandwidth 10MHz) 16QAM	28.66	EIRP	0.735
LTE-Band 41 (Bandwidth 15MHz) QPSK	29.00	EIRP	0.794
LTE-Band 41 (Bandwidth 15MHz) 16QAM	28.44	EIRP	0.698
LTE-Band 41 (Bandwidth 20MHz) QPSK	28.93	EIRP	0.782
LTE-Band 41 (Bandwidth 20MHz) 16QAM	28.96	EIRP	0.787

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1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Rugged Handheld Computer, supporting GSM / WCDMA / LTE, Wi-Fi 802.11abgn, Bluetooth and NFC features, and below is details of information.

Product Feature	
Product Name:	Rugged Handheld Computer
Brand Name:	unitech
Model No.:	PA720
Model Difference:	N/A
FCC ID:	HLEPA720BTNFL
GSM Operating Band(s)	GSM 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 12
WCDMA Operating Band(s)	FDD Band II / V
WCDMA Rel. Version	Rel.9
LTE Operating Band(s)	FCC Band 5: Part 22. / FCC Band 2: Part 24. FCC Band 7 / 38 / 41: Part 27
LTE Rel. Version	Rel.9
Bluetooth Version	V4.1 dual mode
Wi-Fi- Specification	802.11a/b/g/n
NFC Specification	NFC

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

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 0.2 dB for low band and 0.3 for high band with 10 dB attenuator and 3.2 splitter.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =0.2+10+3.2=13.4(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =0.3+10+3.2=13.5(dB)

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.6 Vdc	384
GSM 1900	3.6 Vdc	319
GPRS 850	3.6 Vdc	463
GPRS 1900	3.6 Vdc	396
EDGE 850	3.6 Vdc	293
EDGE 1900	3.6 Vdc	259
WCDMA B2	3.6 Vdc	756
WCDMA B5	3.6 Vdc	698
HSUPA B2	3.6 Vdc	664
HSUPA B5	3.6 Vdc	634
HSDPA B2	3.6 Vdc	632
HSDPA B5	3.6 Vdc	587

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 2_1.4M QPSK	3.6 Vdc	772
LTE Band 2_1.4M 16QAM	3.6 Vdc	792
LTE Band 2_3M QPSK	3.6 Vdc	801
LTE Band 2_3M 16QAM	3.6 Vdc	764
LTE Band 2_5M QPSK	3.6 Vdc	776
LTE Band 2_5M 16QAM	3.6 Vdc	789
LTE Band 2_10M QPSK	3.6 Vdc	794
LTE Band 2_10M 16QAM	3.6 Vdc	765
LTE Band 2_15M QPSK	3.6 Vdc	776
LTE Band 2_15M 16QAM	3.6 Vdc	782
LTE Band 2_20M QPSK	3.6 Vdc	794
LTE Band 2_20M 16QAM	3.6 Vdc	802

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 5_1.4M QPSK	3.6 Vdc	754
LTE Band 5_1.4M 16QAM	3.6 Vdc	756
LTE Band 5_3M QPSK	3.6 Vdc	766
LTE Band 5_3M 16QAM	3.6 Vdc	789
LTE Band 5_5M QPSK	3.6 Vdc	781
LTE Band 5_5M 16QAM	3.6 Vdc	754
LTE Band 5_10M QPSK	3.6 Vdc	768
LTE Band 5_10M 16QAM	3.6 Vdc	785

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 7_5M QPSK	3.6 Vdc	765
LTE Band 7_5M 16QAM	3.6 Vdc	754
LTE Band 7_10M QPSK	3.6 Vdc	766
LTE Band 7_10M 16QAM	3.6 Vdc	753
LTE Band 7_15M QPSK	3.6 Vdc	743
LTE Band 7_15M 16QAM	3.6 Vdc	773
LTE Band 7_20M QPSK	3.6 Vdc	781
LTE Band 7_20M 16QAM	3.6 Vdc	745

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 38_5M QPSK	3.6 Vdc	773
LTE Band 38_5M 16QAM	3.6 Vdc	734
LTE Band 38_10M QPSK	3.6 Vdc	765
LTE Band 38_10M 16QAM	3.6 Vdc	755
LTE Band 38_15M QPSK	3.6 Vdc	732
LTE Band 38_15M 16QAM	3.6 Vdc	734
LTE Band 38_20M QPSK	3.6 Vdc	732
LTE Band 38_20M 16QAM	3.6 Vdc	745

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 41_5M QPSK	3.6 Vdc	815
LTE Band 41_5M 16QAM	3.6 Vdc	789
LTE Band 41_10M QPSK	3.6 Vdc	775
LTE Band 41_10M 16QAM	3.6 Vdc	745
LTE Band 41_15M QPSK	3.6 Vdc	756
LTE Band 41_15M 16QAM	3.6 Vdc	778
LTE Band 41_20M QPSK	3.6 Vdc	789
LTE Band 41_20M 16QAM	3.6 Vdc	776

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2.6. Configuration of Tested System

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

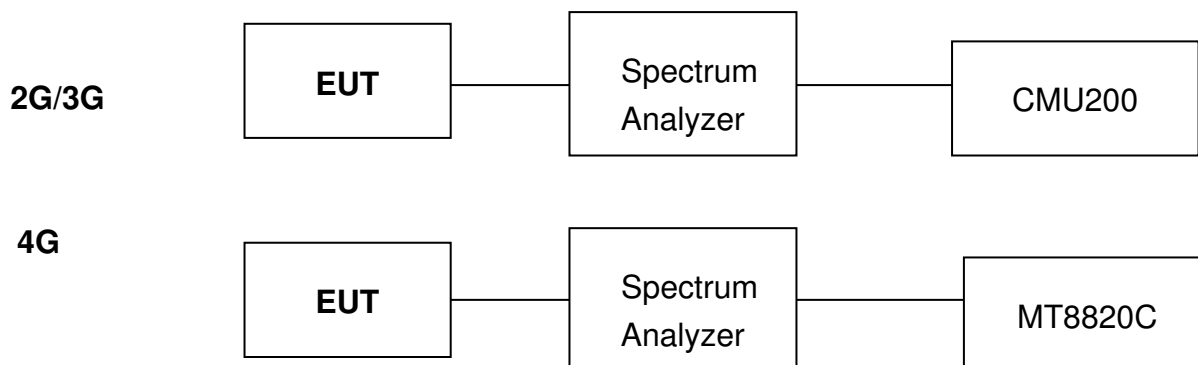


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

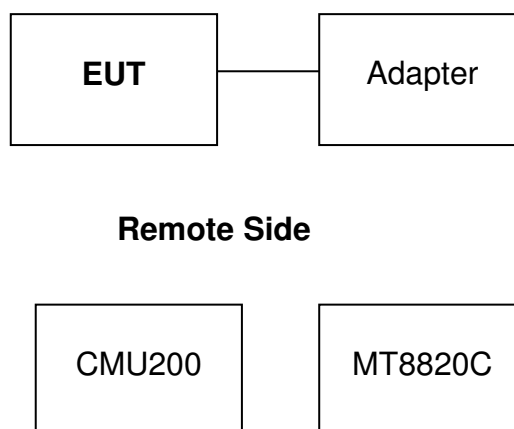


Table 2-1 Equipment Used in

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

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(h)(2)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.50(c)(5) §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
§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	H-plan	H-plan
WCDMA/HSPA Band II	H-plan	H-plan
WCDMA/HSPA Band V	E2-plan	E2-plan
LTE Band 2	H-plan	H-plan
LTE Band 5	E2-plan	E2-plan
LTE Band 7	E1-plan	E1-plan
LTE Band 38	E1-plan	E1-plan
LTE Band 41	E1-plan	E1-plan

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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	GPRS 850 GPRS 1900

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	9262, 9400, 9583	WCDMA/HSPA Band II
FREQUENCY STABILITY	4132 to 4233 9262 to 9538	4183 9400	WCDMA Band II WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 9262 to 9538	4183 9400	WCDMA/HSPA Band II WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	WCDMA Band II WCDMA Band V
CONDCUDED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	WCDMA Band II WCDMA Band V
RADIATED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	HSDPA Band II HSDPA 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	18675 to 19125	18675, 18900, 19125	15MHz	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	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	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	20800 to 21400	20800, 21100, 21400	10MHz	16QAM,	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 38 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	37775 to 38225	37775, 38000, 38225	5MHz	16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	16QAM	Full RB
BAND EDGE	37775 to 38225	37775, 38000, 38225	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK,	1 RB, 0 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK,	1 RB, 0 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK,	1 RB, 0 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK,	1 RB, 0 RB Offest
EMISSION MASK	37775 to 38225	37775, 38000, 38225	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK,	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK,	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	40265 to 41215	40265, 40740, 41215	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	40290 to 41190	40290 , 40740, 41190	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	40315 to 41165	40315 , 40740, 41165	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	40340 to 41140	40340 , 40740, 41140	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	40340 to 41140	40340 , 40740, 41140	20MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	40265 to 41215	40265, 40740, 41215	5MHz	QPSK, 16QAM	Full RB
	40290 to 41190	40290 , 40740, 41190	10MHz	QPSK, 16QAM	Full RB
	40315 to 41165	40315 , 40740, 41165	15MHz	QPSK, 16QAM	Full RB
	40340 to 41140	40340 , 40740, 41140	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	40265 to 41215	40265, 40740, 41215	5MHz	16QAM	Full RB
	40290 to 41190	40290 , 40740, 41190	10MHz	16QAM	Full RB
	40315 to 41165	40315 , 40740, 41165	15MHz	16QAM	Full RB
	40340 to 41140	40340 , 40740, 41140	20MHz	16QAM	Full RB
BAND EDGE	40265 to 41215	40265, 40740, 41215	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	40290 to 41190	40290 , 40740, 41190	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	40315 to 41165	40315 , 40740, 41165	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	40340 to 41140	40340 , 40740, 41140	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	40265 to 41215	40265, 40740, 41215	5MHz	QPSK,	1 RB, 0 RB Offest
	40290 to 41190	40290 , 40740, 41190	10MHz	QPSK,	1 RB, 0 RB Offest
	40315 to 41165	40315 , 40740, 41165	15MHz	QPSK,	1 RB, 0 RB Offest
	40340 to 41140	40340 , 40740, 41140	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	40265 to 41215	40265, 40740, 41215	5MHz	QPSK,	1 RB, 0 RB Offest
EMISSION MASK	40265 to 41215	40265, 40740, 41215	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	40290 to 41190	40290 , 40740, 41190	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	40315 to 41165	40315 , 40740, 41165	15MHz	QPSK,	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	40340 to 41140	40340 , 40740, 41140	20MHz	QPSK,	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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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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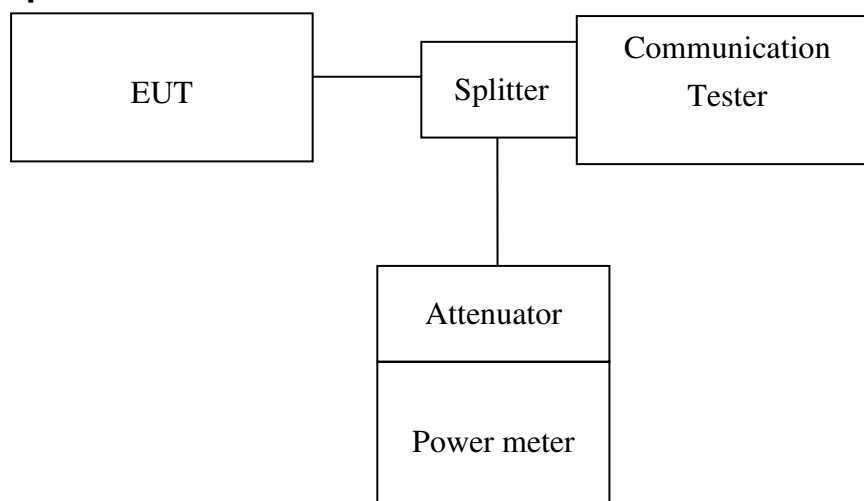
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

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+SUHNE R	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	05/17/2016	05/16/2017
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 Analyzer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

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	32.60	32.50
	836.6	190	32.90	32.70
	848.8	251	32.90	32.70
GSM 1900	1850.2	512	30.10	30.00
	1880.0	661	30.20	30.00
	1909.8	810	30.20	30.00

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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	32.60	32.50	32.00	31.80	30.20	30.00	29.00	28.90
	836.6	190	32.90	32.70	32.20	32.00	30.40	30.20	29.20	29.00
	848.8	251	32.90	32.70	32.10	32.00	30.30	30.20	29.20	29.00
GPRS 1900	1850.2	512	30.00	29.90	29.30	29.20	27.50	27.30	26.30	26.20
	1880.0	661	30.10	30.00	29.50	29.40	27.90	27.80	26.80	26.70
	1909.8	810	30.10	30.00	29.50	29.30	28.00	27.90	27.00	26.80
EDGE 850	824.2	128	29.40	26.50	28.50	25.50	28.50	25.50	28.50	25.50
	836.6	190	29.30	26.50	28.60	25.50	28.50	25.50	28.60	25.50
	848.8	251	29.50	26.50	28.50	25.50	28.50	25.50	28.60	25.60
EDGE 1900	1850.2	512	28.40	25.70	27.80	24.90	25.90	23.10	25.20	22.10
	1880.0	661	28.40	25.90	27.80	25.00	26.30	23.20	25.30	22.10
	1909.8	810	28.50	25.90	27.90	25.10	26.30	23.20	25.30	22.30

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WCDMA MODE:

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

Results:

EUT Mode		WCDMA Band II		HSDPA Band II		HSUPA Band II	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1852.4	9262	26.68	23.68	26.17	22.63	26.18	22.64
1880.0	9400	26.88	23.71	26.41	22.59	26.35	22.58
1907.6	9538	26.59	23.76	26.18	22.62	26.12	22.58

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	27.24	23.99	26.34	22.83	26.27	22.81
836.6	4183	27.55	23.98	26.74	23.08	26.78	23.02
846.6	4233	27.49	23.97	26.66	23.02	26.67	23.01

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

Cable loss offset Low Band: 0.2dB, Cable loss offset High Band: 0.3dB

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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	22.71	22.37	22.14	22.02	21.98	21.78
	1	5	22.84	22.43	22.37	22.03	21.86	21.7
	3	2	22.81	22.46	22.4	21.78	21.62	21.5
	6	0	21.58	21.64	21.47	20.73	20.47	20.57

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	22.7	22.65	22.57	21.81	21.85	21.62
	1	14	22.62	22.37	22.51	22.34	21.83	21.8
	8	4	22.02	21.58	21.53	20.86	20.72	20.84
	15	0	21.76	21.65	21.33	20.96	20.63	20.96

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175	Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175
5	1	0	22.78	22.51	22.45	22.02	21.98	21.76
	1	24	22.6	22.44	22.35	22	21.83	21.68
	12	6	21.82	21.59	21.57	20.87	20.66	20.61
	25	0	21.8	21.51	21.52	20.83	20.55	20.52

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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	22.78	22.56	22.47	22.13	21.94	21.82
	1	49	22.58	22.46	22.43	22.03	21.96	21.77
	25	12	21.77	21.58	21.57	20.79	20.62	20.56
	50	0	21.78	21.57	21.59	20.82	20.61	20.6

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	22.84	22.58	22.47	22.22	21.96	21.83
	1	74	22.57	22.48	22.45	21.91	21.94	21.86
	36	19	21.84	21.62	21.61	20.87	20.64	20.63
	75	0	21.83	21.65	21.6	20.85	20.65	20.6

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	22.85	22.64	22.53	22.14	21.97	21.97
	1	99	22.52	22.44	22.44	21.88	21.74	21.7
	50	25	21.77	21.55	21.59	20.76	20.66	20.59
	100	0	21.76	21.58	21.6	20.73	20.66	20.56

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LTE Band 5

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643	Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643
1.4	1	0	22.68	22.44	22.4	21.92	21.69	21.66
	1	5	22.71	22.4	22.41	22.01	21.72	21.62
	3	2	22.71	22.47	22.43	21.74	21.55	21.43
	6	0	21.77	21.52	21.47	20.86	20.68	20.64

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	22.6	22.42	22.33	21.85	21.73	21.61
	1	14	22.62	22.34	22.36	21.96	21.66	21.64
	8	4	21.78	21.49	21.5	20.86	20.62	20.6
	15	0	21.77	21.5	21.47	20.77	20.6	20.49

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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	22.74	22.55	22.37	21.95	21.9	21.7
	1	24	22.71	22.35	22.41	21.95	21.57	21.6
	12	6	21.81	21.57	21.47	20.85	20.65	20.55
	25	0	21.77	21.47	21.42	20.8	20.56	20.45

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	22.71	22.69	22.41	21.95	21.98	21.64
	1	49	22.61	22.39	22.45	21.92	21.61	21.72
	25	12	21.71	21.49	21.4	20.77	20.55	20.43
	50	0	21.71	21.54	21.46	20.76	20.59	20.48

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LTE Band 7

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425	Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425
5	1	0	22.62	22.7	22.56	21.8	21.95	21.82
	1	24	22.49	22.74	22.55	21.71	21.92	21.75
	12	6	21.7	21.6	21.7	20.63	20.69	20.69
	25	0	21.68	21.69	21.64	20.62	20.74	20.62

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400	Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400
10	1	0	22.57	22.33	22.61	21.86	21.67	21.9
	1	49	22.59	22.31	22.64	21.95	21.71	21.89
	25	12	21.67	21.62	21.62	20.61	20.74	20.61
	50	0	21.71	21.65	21.65	20.65	20.78	20.64

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LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375	Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375
15	1	0	22.81	22.45	22.52	22.11	21.84	21.78
	1	74	23.12	22.51	22.31	22.37	21.96	21.53
	36	19	22.01	21.62	21.38	20.93	20.7	20.35
	75	0	22.05	21.69	21.41	20.97	20.8	20.39

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350	Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350
20	1	0	22.86	22.61	22.81	22.09	21.92	22.09
	1	99	23.13	22.65	22.34	22.46	22.15	21.62
	50	25	22.08	21.69	21.43	21.08	20.77	20.43
	100	0	22.09	21.79	21.5	21.06	20.82	20.49

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LTE Band 38

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 37775	Channel (Mid) 38000	Channel (High) 38225	Channel (Low) 37775	Channel (Mid) 38000	Channel (High) 38225
5	1	0	22.61	22.74	22.74	21.75	21.83	21.81
	1	24	22.42	22.69	22.54	21.75	21.92	22.03
	12	6	21.72	21.89	22.1	20.65	20.88	20.92
	25	0	21.72	21.84	22.05	20.48	20.86	21.04

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 37800	Channel (Mid) 38000	Channel (High) 38200	Channel (Low) 37800	Channel (Mid) 38000	Channel (High) 38200
10	1	0	22.73	22.83	22.81	21.84	22	21.9
	1	49	22.33	22.81	22.83	21.91	21.99	21.34
	25	12	21.83	21.9	22.01	20.81	20.92	21.85
	50	0	21.81	21.93	22.1	20.8	20.95	21.12

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LTE Band 38_Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 37825	Channel (Mid) 38000	Channel (High) 38175	Channel (Low) 37825	Channel (Mid) 38000	Channel (High) 38175
15	1	0	22.79	22.37	22.78	22	21.85	22.06
	1	74	22.92	22.98	22.97	22.16	21.96	22.18
	36	19	21.93	22.03	22.19	20.85	20.88	21.06
	75	0	22	22.06	22.2	20.92	21.05	21.18

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 37850	Channel (Mid) 38000	Channel (High) 38150	Channel (Low) 37850	Channel (Mid) 38000	Channel (High) 38150
20	1	0	22.58	22.73	22.78	21.64	22.08	22.15
	1	99	23.05	22.62	22.94	22.14	22.18	21.94
	50	25	21.96	21.73	21.99	20.74	21.1	21.13
	100	0	21.99	22.06	22.16	20.89	21.03	21.11

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LTE Band 41

LTE Band 41_Uplink frequency band : 2555 to 2655 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 40265	Channel (Mid) 40740	Channel (High) 41215	Channel (Low) 40265	Channel (Mid) 40740	Channel (High) 41215
5	1	0	22.46	22.47	22.46	21.51	21.63	21.76
	1	24	22.26	22.29	22.55	21.48	21.59	21.74
	12	6	21.55	21.58	21.85	20.44	20.55	20.84
	25	0	21.43	21.55	21.81	20.5	20.56	20.83

LTE Band 41_Uplink frequency band : 2555 to 2655 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 40290	Channel (Mid) 40740	Channel (High) 41190	Channel (Low) 40290	Channel (Mid) 40740	Channel (High) 41190
10	1	0	22.32	22.42	22.55	21.57	21.67	21.82
	1	49	22.29	22.42	22.51	21.52	21.57	21.76
	25	12	21.58	21.57	21.84	20.51	20.59	20.88
	50	0	21.56	21.41	21.88	20.5	20.63	20.91

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LTE Band 41_Uplink frequency band : 2555 to 2655 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 40315	Channel (Mid) 40740	Channel (High) 41165	Channel (Low) 40315	Channel (Mid) 40740	Channel (High) 41165
15	1	0	22.47	22.56	22.67	21.56	21.7	21.86
	1	74	22.47	22.37	22.55	21.57	21.65	21.83
	36	19	21.44	21.63	21.91	20.47	20.58	20.85
	75	0	21.58	21.42	21.88	20.43	20.42	20.92

LTE Band 41_Uplink frequency band : 2555 to 2655 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 40340	Channel (Mid) 40740	Channel (High) 41140	Channel (Low) 40340	Channel (Mid) 40740	Channel (High) 41140
20	1	0	22.56	22.57	22.68	21.62	21.74	21.87
	1	99	22.55	22.49	22.65	21.61	21.71	21.81
	50	25	21.62	21.67	21.82	20.55	20.7	20.84
	100	0	21.6	21.54	21.77	20.56	20.62	20.84

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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	23.85	23.60	23.62	20.3dBm – 25.7dBm	Pass
	2	23.56	23.57	23.61	20.3dBm – 25.7dBm	Pass
	3	23.37	23.15	23.09	19.8dBm – 25.7dBm	Pass
	4	23.44	23.16	23.21	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	23.78	23.84	24.09	20.3dBm – 25.7dBm	Pass
	2	23.92	23.87	23.84	20.3dBm – 25.7dBm	Pass
	3	23.32	23.36	23.60	19.8dBm – 25.7dBm	Pass
	4	23.37	23.40	23.66	19.8dBm – 25.7dBm	Pass

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	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

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

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.60	23.69	23.70	18.8dBm – 25.7dBm	Pass
	2	21.65	21.76	21.74	16.8dBm – 25.7dBm	Pass
	3	22.66	22.71	22.78	17.8dBm – 25.7dBm	Pass
	4	21.78	21.81	21.78	16.8dBm – 25.7dBm	Pass
	5	23.49	23.55	23.61	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	23.95	23.91	23.89	18.8dBm – 25.7dBm	Pass
	2	22.01	21.99	21.93	16.8dBm – 25.7dBm	Pass
	3	22.99	22.97	22.97	17.8dBm – 25.7dBm	Pass
	4	22.06	22.05	22.01	16.8dBm – 25.7dBm	Pass
	5	23.81	23.74	23.78	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, 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(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

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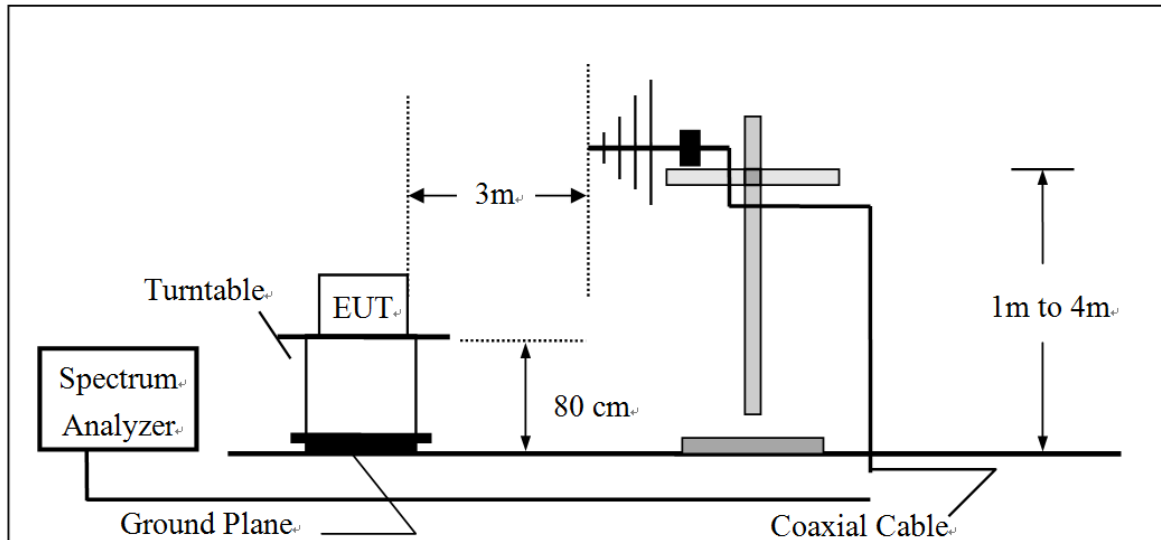
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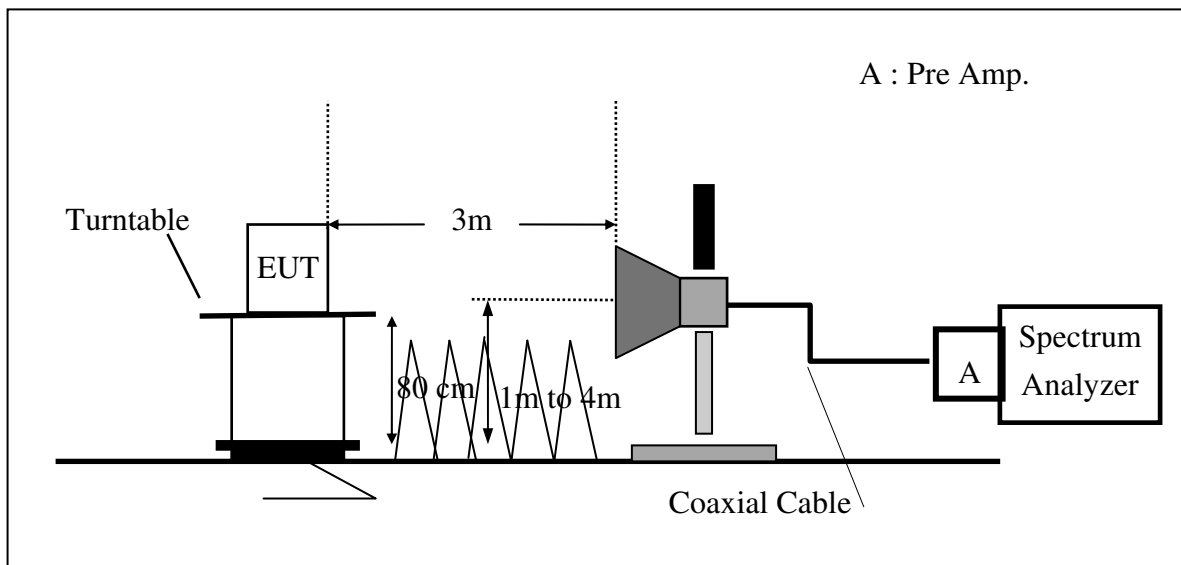
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7.2. Test SET-UP

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



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



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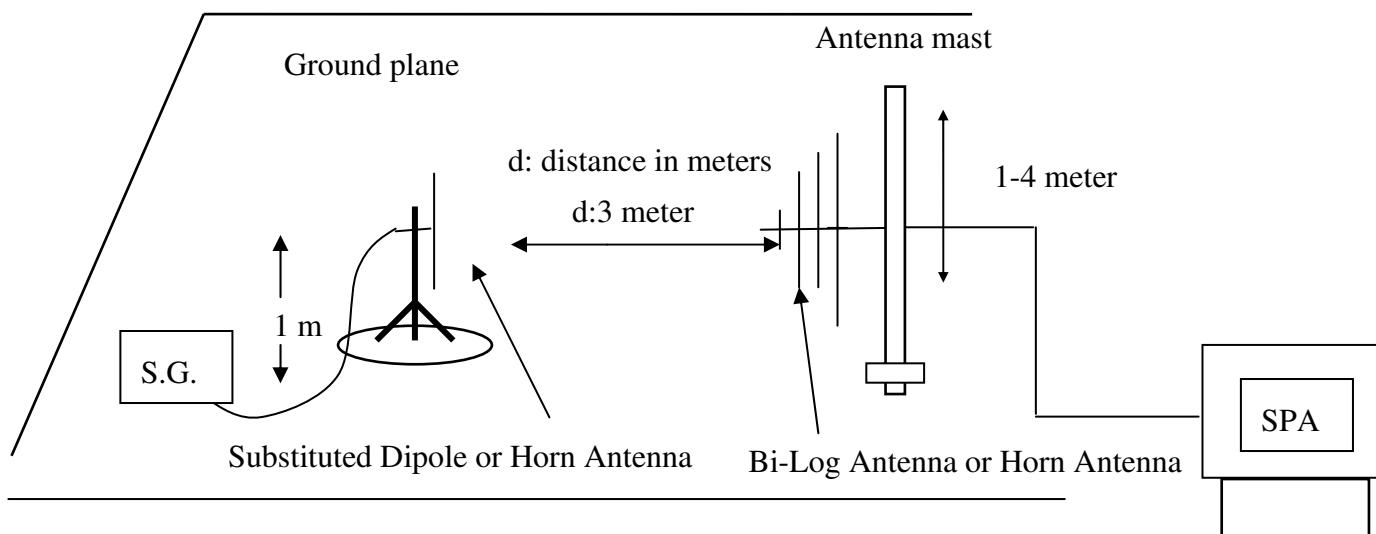
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(C) Substituted Method Test Set-UP



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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 $10 \cdot \log(TBW/RBW)$, where TBW is the transmission of UE exceeding the maximum BW UE can extends, and RBW is the resolution BW in UE.

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7.4. Measurement Equipment Used

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
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
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2015	12/11/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	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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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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit

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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	11.5	9.95	-4.46	16.98	33.01
			H	16.6	9.95	-4.46	22.08	33.01
	1880.0	18900	V	10.51	10.03	-4.51	16.03	33.01
			H	18.91	10.03	-4.51	24.43	33.01
	1909.3	19193	V	7.66	10.12	-4.55	13.23	33.01
			H	18.35	10.12	-4.55	23.92	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	11.71	9.94	-4.46	17.19	33.01
			H	16.98	9.94	-4.46	22.46	33.01
	1880.0	18900	V	10.43	10.03	-4.51	15.96	33.01
			H	18.98	10.03	-4.51	24.51	33.01
	1909.3	19193	V	7.47	10.12	-4.55	13.04	33.01
			H	18.23	10.12	-4.55	23.8	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	12.34	9.94	-4.46	17.83	33.01
			H	18.01	9.94	-4.46	23.5	33.01
	1880.0	18900	V	11.15	10.03	-4.51	16.67	33.01
			H	20.07	10.03	-4.51	25.6	33.01
	1909.3	19193	V	8.29	10.12	-4.55	13.86	33.01
			H	19.46	10.12	-4.55	25.03	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	12.52	9.94	-4.46	18	33.01
			H	18.27	9.94	-4.46	23.75	33.01
	1880.0	18900	V	11.05	10.03	-4.51	16.57	33.01
			H	20.1	10.03	-4.51	25.62	33.01
	1909.3	19193	V	8.04	10.12	-4.55	13.62	33.01
			H	19.37	10.12	-4.55	24.94	33.01

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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	11.75	9.95	-4.46	17.24	33.01
			H	16.97	9.94	-4.46	22.45	33.01
	1880.0	18900	V	10.16	10.03	-4.5	15.68	33.01
			H	18.87	10.03	-4.5	24.39	33.01
	1908.5	19185	V	4.92	10.11	-4.54	10.49	33.01
			H	18.25	10.11	-4.55	23.82	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	11.86	9.94	-4.46	17.34	33.01
			H	17.22	9.94	-4.46	22.7	33.01
	1880.0	18900	V	9.88	10.03	-4.51	15.4	33.01
			H	18.82	10.03	-4.51	24.35	33.01
	1908.5	19185	V	4.21	10.12	-4.55	9.78	33.01
			H	18.08	10.12	-4.55	23.65	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	12.77	9.95	-4.46	18.25	33.01
			H	17.76	9.94	-4.46	23.25	33.01
	1880.0	18900	V	11.35	10.03	-4.5	16.87	33.01
			H	19.83	10.03	-4.5	25.35	33.01
	1908.5	19185	V	6.16	10.11	-4.55	11.73	33.01
			H	19.34	10.11	-4.54	24.91	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	13.12	9.94	-4.46	18.61	33.01
			H	18.43	9.94	-4.46	23.91	33.01
	1880.0	18900	V	10.96	10.03	-4.51	16.49	33.01
			H	19.88	10.03	-4.51	25.41	33.01
	1908.5	19185	V	5.34	10.12	-4.55	10.92	33.01
			H	19.16	10.12	-4.55	24.73	33.01

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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	11.46	9.95	-4.46	16.94	33.01
			H	16.57	9.95	-4.46	22.05	33.01
	1880.0	18900	V	10.32	10.02	-4.5	15.84	33.01
			H	18.77	10.02	-4.5	24.29	33.01
	1907.5	19175	V	5.48	10.11	-4.54	11.04	33.01
			H	18.33	10.11	-4.54	23.9	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	11.69	9.95	-4.47	17.17	33.01
			H	17.37	9.95	-4.46	22.85	33.01
	1880.0	18900	V	9.66	10.04	-4.51	15.19	33.01
			H	18.82	10.04	-4.51	24.35	33.01
	1907.5	19175	V	4.39	10.12	-4.55	9.97	33.01
			H	18.07	10.12	-4.55	23.64	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	12.67	9.95	-4.46	18.16	33.01
			H	17.8	9.95	-4.46	23.28	33.01
	1880.0	18900	V	11.69	10.02	-4.5	17.21	33.01
			H	20.11	10.02	-4.5	25.63	33.01
	1907.5	19175	V	6.61	10.11	-4.54	12.18	33.01
			H	19.48	10.11	-4.54	25.05	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	12.95	9.95	-4.47	18.44	33.01
			H	18.64	9.95	-4.46	24.12	33.01
	1880.0	18900	V	11.03	10.04	-4.51	16.55	33.01
			H	20.13	10.04	-4.51	25.66	33.01
	1907.5	19175	V	5.52	10.12	-4.55	11.09	33.01
			H	19.21	10.12	-4.55	24.79	33.01

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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	11.41	9.95	-4.46	16.89	33.01
			H	16.93	9.95	-4.46	22.41	33.01
	1880.0	18900	V	10.48	10.02	-4.5	15.99	33.01
			H	18.75	10.02	-4.5	24.26	33.01
	1905.0	19150	V	6.62	10.09	-4.54	12.18	33.01
			H	18.86	10.09	-4.54	24.42	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	11.53	9.96	-4.47	17.03	33.01
			H	17.87	9.96	-4.47	23.36	33.01
	1880.0	18900	V	9.43	10.04	-4.51	14.96	33.01
			H	18.92	10.04	-4.51	24.45	33.01
	1905.0	19150	V	4.52	10.12	-4.55	10.1	33.01
			H	18.17	10.12	-4.55	23.74	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	12.65	9.95	-4.46	18.13	33.01
			H	17.8	9.95	-4.46	23.28	33.01
	1880.0	18900	V	11.92	10.02	-4.5	17.44	33.01
			H	20.12	10.02	-4.5	25.64	33.01
	1905.0	19150	V	7.79	10.09	-4.54	13.35	33.01
			H	19.99	10.09	-4.54	25.54	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	13.14	9.96	-4.47	18.63	33.01
			H	19.44	9.96	-4.47	24.93	33.01
	1880.0	18900	V	10.77	10.04	-4.51	16.3	33.01
			H	20.21	10.04	-4.51	25.74	33.01
	1905.0	19150	V	5.71	10.12	-4.55	11.28	33.01
			H	19.36	10.12	-4.55	24.94	33.01

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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	11.6	9.95	-4.46	17.08	33.01
			H	16.72	9.95	-4.46	22.2	33.01
	1880.0	18900	V	10.42	10.01	-4.5	15.93	33.01
			H	18.72	10.01	-4.5	24.23	33.01
	1902.5	19125	V	7.66	10.08	-4.53	13.21	33.01
			H	19.36	10.08	-4.53	24.91	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	11.04	9.98	-4.48	16.54	33.01
			H	18.29	9.98	-4.48	23.79	33.01
	1880.0	18900	V	9.18	10.05	-4.52	14.71	33.01
			H	19.05	10.05	-4.52	24.58	33.01
	1902.5	19125	V	2.68	10.12	-4.55	8.25	33.01
			H	18.24	10.12	-4.55	23.82	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	12.8	9.94	-4.46	18.28	33.01
			H	17.77	9.95	-4.46	23.26	33.01
	1880.0	18900	V	11.53	10.01	-4.5	17.04	33.01
			H	20.07	10.01	-4.5	25.58	33.01
	1902.5	19125	V	8.79	10.08	-4.53	14.34	33.01
			H	20.46	10.08	-4.53	26.01	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	12.62	9.98	-4.48	18.12	33.01
			H	19.83	9.98	-4.48	25.33	33.01
	1880.0	18900	V	10.53	10.05	-4.52	16.07	33.01
			H	20.36	10.05	-4.52	25.89	33.01
	1902.5	19125	V	3.96	10.12	-4.55	9.54	33.01
			H	19.36	10.12	-4.55	24.93	33.01

Remark

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	11.55	9.94	-4.46	17.03	33.01
			H	16.59	9.94	-4.46	22.07	33.01
	1880.0	18900	V	10.33	10.01	-4.5	15.85	33.01
			H	18.08	10	-4.49	23.59	33.01
	1900.0	19100	V	8.59	10.07	-4.53	14.14	33.01
			H	17.88	10.07	-4.53	23.42	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	10.94	9.99	-4.49	16.45	33.01
			H	18.38	9.99	-4.49	23.89	33.01
	1880.0	18900	V	9.01	10.06	-4.52	14.54	33.01
			H	18.23	10.06	-4.52	23.77	33.01
	1900.0	19100	V	4.2	10.12	-4.55	9.77	33.01
			H	16.91	10.12	-4.55	22.48	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	13.1	9.94	-4.46	18.58	33.01
			H	18	9.95	-4.46	23.48	33.01
	1880.0	18900	V	11.85	10	-4.49	17.36	33.01
			H	19.45	10.01	-4.5	24.97	33.01
	1900.0	19100	V	10.01	10.07	-4.53	15.56	33.01
			H	19.32	10.07	-4.52	24.87	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	12.39	9.99	-4.49	17.9	33.01
			H	19.77	9.99	-4.49	25.28	33.01
	1880.0	18900	V	10.44	10.06	-4.52	15.98	33.01
			H	19.56	10.06	-4.52	25.1	33.01
	1900.0	19100	V	5.57	10.12	-4.55	11.14	33.01
			H	18.2	10.12	-4.55	23.77	33.01

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	11.66	3.3	-2.93	12.03	38.45
			H	20.59	3.3	-2.93	20.96	38.45
	836.5	20525	V	9.6	3.29	-2.96	9.94	38.45
			H	20.83	3.29	-2.96	21.16	38.45
	848.3	20643	V	7.1	3.27	-3	7.38	38.45
			H	21.38	3.27	-2.99	21.66	38.45
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	9.78	3.31	-2.92	10.16	38.45
			H	19.94	3.31	-2.92	20.32	38.45
	836.5	20525	V	9.31	3.29	-2.96	9.64	38.45
			H	20.7	3.29	-2.96	21.03	38.45
	848.3	20643	V	6.98	3.27	-3	7.25	38.45
			H	21.22	3.27	-3	21.49	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	10.69	3.3	-2.93	11.06	38.45
			H	20.89	3.3	-2.93	21.27	38.45
	836.5	20525	V	10.94	3.29	-2.96	11.28	38.45
			H	22.15	3.29	-2.96	22.49	38.45
	848.3	20643	V	8.36	3.27	-3	8.64	38.45
			H	22.58	3.27	-2.99	22.86	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	10.76	3.31	-2.92	11.14	38.45
			H	20.98	3.31	-2.92	21.36	38.45
	836.5	20525	V	10.53	3.29	-2.96	10.86	38.45
			H	22.02	3.29	-2.96	22.35	38.45
	848.3	20643	V	8.02	3.27	-3	8.3	38.45
			H	22.31	3.27	-3	22.58	38.45

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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	9.82	3.3	-2.93	10.2	38.45
			H	19.73	3.3	-2.93	20.1	38.45
	836.5	20525	V	9.68	3.29	-2.95	10.02	38.45
			H	20.8	3.29	-2.95	21.14	38.45
	847.5	20635	V	7.05	3.27	-2.99	7.33	38.45
			H	21.39	3.28	-2.99	21.67	38.45
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	10.43	3.3	-2.93	10.81	38.45
			H	20.4	3.3	-2.93	20.78	38.45
	836.5	20525	V	8.54	3.29	-2.96	8.87	38.45
			H	20.39	3.29	-2.96	20.72	38.45
	847.5	20635	V	6.87	3.27	-3	7.14	38.45
			H	21.06	3.27	-3	21.33	38.45
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	10.89	3.3	-2.93	11.26	38.45
			H	20.85	3.3	-2.93	21.22	38.45
	836.5	20525	V	11	3.29	-2.95	11.33	38.45
			H	22.11	3.29	-2.95	22.45	38.45
	847.5	20635	V	8.28	3.27	-3	8.55	38.45
			H	22.65	3.28	-2.99	22.94	38.45
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	11.47	3.3	-2.93	11.85	38.45
			H	21.46	3.3	-2.93	21.83	38.45
	836.5	20525	V	9.86	3.29	-2.96	10.19	38.45
			H	21.7	3.29	-2.96	22.03	38.45
	847.5	20635	V	7.71	3.27	-3	7.98	38.45
			H	21.97	3.27	-3	22.25	38.45

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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	9.81	3.3	-2.93	10.18	38.45
			H	19.8	3.3	-2.93	20.17	38.45
	836.5	20525	V	9.96	3.29	-2.95	10.3	38.45
			H	20.77	3.29	-2.95	21.11	38.45
	846.5	20625	V	7.24	3.28	-2.98	7.53	38.45
			H	21.23	3.28	-2.98	21.53	38.45
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	10.79	3.3	-2.93	11.16	38.45
			H	20.82	3.3	-2.93	21.19	38.45
	836.5	20525	V	8.04	3.29	-2.97	8.37	38.45
			H	20.13	3.29	-2.96	20.46	38.45
	846.5	20625	V	6.95	3.27	-3	7.22	38.45
			H	21.26	3.27	-3	21.53	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	10.93	3.3	-2.93	11.31	38.45
			H	20.81	3.3	-2.93	21.18	38.45
	836.5	20525	V	11.44	3.29	-2.95	11.78	38.45
			H	22.29	3.29	-2.95	22.63	38.45
	846.5	20625	V	8.27	3.28	-2.98	8.56	38.45
			H	22.43	3.28	-2.98	22.73	38.45
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	12.06	3.3	-2.93	12.43	38.45
			H	22.13	3.3	-2.93	22.49	38.45
	836.5	20525	V	9.35	3.29	-2.96	9.67	38.45
			H	21.41	3.29	-2.97	21.73	38.45
	846.5	20625	V	8.19	3.27	-3	8.47	38.45
			H	22.48	3.27	-3	22.76	38.45

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	9.84	3.3	-2.93	10.22	38.45
			H	19.72	3.3	-2.93	20.09	38.45
	836.5	20525	V	10.23	3.3	-2.94	10.59	38.45
			H	20.72	3.3	-2.94	21.07	38.45
	844.0	20600	V	7.67	3.29	-2.97	7.98	38.45
			H	20.1	3.29	-2.97	20.42	38.45
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	9.88	3.29	-2.95	10.22	38.45
			H	20.73	3.29	-2.95	21.07	38.45
	836.5	20525	V	7.02	3.28	-2.97	7.33	38.45
			H	20	3.28	-2.98	20.3	38.45
	844.0	20600	V	7	3.27	-3	7.28	38.45
			H	21.27	3.27	-3	21.55	38.45
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	10.96	3.3	-2.93	11.34	38.45
			H	20.86	3.3	-2.93	21.23	38.45
	836.5	20525	V	12.02	3.3	-2.94	12.37	38.45
			H	22.34	3.3	-2.94	22.7	38.45
	844.0	20600	V	8.89	3.29	-2.97	9.21	38.45
			H	21.38	3.29	-2.97	21.7	38.45
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	11.6	3.3	-2.95	11.94	38.45
			H	22.35	3.29	-2.95	22.7	38.45
	836.5	20525	V	8.18	3.28	-2.97	8.49	38.45
			H	21.25	3.28	-2.97	21.56	38.45
	844.0	20600	V	8.25	3.27	-3	8.53	38.45
			H	22.53	3.27	-3	22.81	38.45

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	19.07	10.9	-5.25	24.72	33.01
			H	10.7	10.9	-5.26	16.34	33.01
	2535.0	21100	V	19.19	10.94	-5.3	24.83	33.01
			H	-0.77	10.94	-5.3	4.87	33.01
	2567.5	21425	V	18	10.98	-5.34	23.65	33.01
			H	7	10.98	-5.34	12.64	33.01
BAND 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	18.62	10.9	-5.26	24.27	33.01
			H	9.64	10.9	-5.26	15.29	33.01
	2535.0	21100	V	19.03	10.95	-5.31	24.67	33.01
			H	9.11	10.95	-5.31	14.75	33.01
	2567.5	21425	V	17.73	10.99	-5.34	23.38	33.01
			H	7.04	10.99	-5.34	12.69	33.01
BAND 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	20.2	10.9	-5.25	25.84	33.01
			H	11.44	10.9	-5.26	17.09	33.01
	2535.0	21100	V	20.57	10.94	-5.3	26.22	33.01
			H	10.68	10.94	-5.3	16.32	33.01
	2567.5	21425	V	19.36	10.98	-5.34	25	33.01
			H	8.43	10.98	-5.34	14.07	33.01
BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	19.82	10.9	-5.26	25.47	33.01
			H	10.89	10.9	-5.26	16.54	33.01
	2535.0	21100	V	20.5	10.95	-5.31	26.14	33.01
			H	10.63	10.95	-5.31	16.27	33.01
	2567.5	21425	V	18.88	10.99	-5.34	24.53	33.01
			H	8.2	10.99	-5.34	13.85	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 7 BW: 10M QPSK RB: 1,0	2505.0	20800	V	19.18	10.9	-5.25	24.83	33.01
			H	10.05	10.9	-5.26	15.7	33.01
	2535.0	21100	V	19.36	10.94	-5.29	25	33.01
			H	8.96	10.94	-5.29	14.6	33.01
	2565.0	21400	V	18.49	10.98	-5.34	24.12	33.01
			H	6.6	10.98	-5.34	12.24	33.01
BAND 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	18.51	10.91	-5.26	24.16	33.01
			H	8.83	10.91	-5.26	14.48	33.01
	2535.0	21100	V	19.19	10.95	-5.31	24.82	33.01
			H	8.67	10.95	-5.31	14.31	33.01
	2565.0	21400	V	18.14	10.99	-5.34	23.79	33.01
			H	6.94	10.99	-5.34	12.59	33.01
BAND 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	20.55	10.9	-5.26	26.2	33.01
			H	11.45	10.9	-5.26	17.1	33.01
	2535.0	21100	V	20.79	10.94	-5.29	26.43	33.01
			H	10.4	10.94	-5.3	16.04	33.01
	2565.0	21400	V	19.89	10.98	-5.34	25.53	33.01
			H	8.03	10.98	-5.34	13.66	33.01
BAND 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	19.98	10.91	-5.26	25.63	33.01
			H	10.3	10.91	-5.26	15.95	33.01
	2535.0	21100	V	20.74	10.95	-5.31	26.38	33.01
			H	10.35	10.95	-5.31	15.98	33.01
	2565.0	21400	V	19.61	10.99	-5.34	25.25	33.01
			H	8.46	10.99	-5.34	14.1	33.01

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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	19.44	10.9	-5.25	25.09	33.01
			H	9.74	10.9	-5.25	15.39	33.01
	2535.0	21100	V	19.29	10.94	-5.29	24.93	33.01
			H	8.75	10.94	-5.29	14.39	33.01
	2562.5	21375	V	18.51	10.97	-5.34	24.15	33.01
			H	6.32	10.97	-5.34	11.95	33.01
BAND 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	18.58	10.92	-5.27	24.23	33.01
			H	7.78	10.92	-5.27	13.43	33.01
	2535.0	21100	V	19.11	10.95	-5.32	24.75	33.01
			H	8.47	10.95	-5.32	14.11	33.01
	2562.5	21375	V	18.25	10.99	-5.34	23.9	33.01
			H	6.92	10.99	-5.34	12.57	33.01
BAND 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	20.33	10.9	-5.25	25.98	33.01
			H	11.04	10.9	-5.25	16.68	33.01
	2535.0	21100	V	20.6	10.93	-5.29	26.24	33.01
			H	10.13	10.93	-5.29	15.78	33.01
	2562.5	21375	V	19.82	10.97	-5.34	25.45	33.01
			H	7.75	10.97	-5.34	13.38	33.01
BAND 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	20.06	10.92	-5.27	25.72	33.01
			H	9.32	10.92	-5.27	14.97	33.01
	2535.0	21100	V	20.4	10.95	-5.32	26.03	33.01
			H	9.86	10.95	-5.32	15.5	33.01
	2562.5	21375	V	19.46	10.99	-5.34	25.1	33.01
			H	8.16	10.99	-5.34	13.8	33.01

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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	19.39	10.9	-5.26	25.04	33.01
			H	9.87	10.9	-5.26	15.52	33.01
	2535.0	21100	V	19.13	10.93	-5.29	24.78	33.01
			H	8.44	10.93	-5.29	14.08	33.01
	2560.0	21350	V	18.54	10.96	-5.33	24.17	33.01
			H	6.82	10.96	-5.33	12.45	33.01
BAND 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	18.65	10.92	-5.27	24.3	33.01
			H	7.73	10.92	-5.27	13.38	33.01
	2535.0	21100	V	18.86	10.95	-5.32	24.5	33.01
			H	8.15	10.95	-5.32	13.79	33.01
	2560.0	21350	V	18.25	10.99	-5.34	23.9	33.01
			H	6.91	10.99	-5.34	12.56	33.01
BAND 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	20.56	10.9	-5.26	26.2	33.01
			H	11.24	10.9	-5.26	16.89	33.01
	2535.0	21100	V	20.5	10.93	-5.29	26.15	33.01
			H	9.58	10.94	-5.29	15.22	33.01
	2560.0	21350	V	19.99	10.96	-5.33	25.62	33.01
			H	7.81	10.97	-5.34	13.44	33.01
BAND 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	20.13	10.92	-5.27	25.78	33.01
			H	9.18	10.92	-5.27	14.83	33.01
	2535.0	21100	V	20.44	10.95	-5.32	26.08	33.01
			H	9.55	10.95	-5.32	15.19	33.01
	2560.0	21350	V	19.35	10.99	-5.34	25	33.01
			H	8.39	10.99	-5.34	14.04	33.01

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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 38 BW: 5M QPSK RB: 1,0	2572.5	37775	V	23.57	10.99	-5.34	29.22	33.01
			H	7.25	10.99	-5.34	12.9	33.01
	2595.0	38000	V	24.18	11.02	-5.34	29.86	33.01
			H	14.41	11.02	-5.34	20.09	33.01
	2617.5	38225	V	23.24	11.05	-5.37	28.92	33.01
			H	13.88	11.05	-5.37	19.56	33.01
BAND 38 BW: 5M QPSK RB: 1,24	2572.5	37775	V	17.48	10.99	-5.34	23.13	33.01
			H	7.22	10.99	-5.34	12.87	33.01
	2595.0	38000	V	24.23	11.02	-5.35	29.91	33.01
			H	14.39	11.02	-5.35	20.07	33.01
	2617.5	38225	V	22.99	11.05	-5.37	28.67	33.01
			H	13.78	11.05	-5.37	19.46	33.01
BAND 38 BW: 5M 16QAM RB: 1,0	2572.5	37775	V	17.8	10.99	-5.34	23.45	33.01
			H	7.91	10.99	-5.34	13.57	33.01
	2595.0	38000	V	23.89	11.02	-5.34	29.57	33.01
			H	14.14	11.02	-5.34	19.81	33.01
	2617.5	38225	V	23.27	11.05	-5.37	28.95	33.01
			H	13.51	11.05	-5.37	19.19	33.01
BAND 38 BW: 5M 16QAM RB: 1,24	2572.5	37775	V	17.36	10.99	-5.34	23.01	33.01
			H	7.92	10.99	-5.34	13.57	33.01
	2595.0	38000	V	24.1	11.02	-5.35	29.78	33.01
			H	14.34	11.02	-5.35	20.02	33.01
	2617.5	38225	V	23.25	11.05	-5.37	28.93	33.01
			H	13.75	11.05	-5.37	19.43	33.01

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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 38 BW: 10M QPSK RB: 1,0	2575.0	37800	V	17.33	10.99	-5.34	22.99	33.01
			H	8.88	10.99	-5.34	14.53	33.01
	2595.0	38000	V	17.12	11.02	-5.34	22.79	33.01
			H	8.21	11.02	-5.34	13.88	33.01
	2615.0	38200	V	23.04	11.04	-5.36	28.72	33.01
			H	13.55	11.04	-5.36	19.23	33.01
BAND 38 BW: 10M QPSK RB: 1,49	2575.0	37800	V	16.67	11	-5.34	22.33	33.01
			H	7.55	11	-5.34	13.21	33.01
	2595.0	38000	V	23.6	11.03	-5.35	29.28	33.01
			H	7.85	11.03	-5.35	13.53	33.01
	2615.0	38200	V	22.76	11.05	-5.37	28.44	33.01
			H	13.78	11.05	-5.37	19.46	33.01
BAND 38 BW: 10M 16QAM RB: 1,0	2575.0	37800	V	17.68	10.99	-5.34	23.33	33.01
			H	8.88	10.99	-5.34	14.53	33.01
	2595.0	38000	V	17.5	11.02	-5.34	23.18	33.01
			H	8.86	11.02	-5.34	14.54	33.01
	2615.0	38200	V	23.05	11.04	-5.36	28.73	33.01
			H	13.71	11.04	-5.36	19.39	33.01
BAND 38 BW: 10M 16QAM RB: 1,49	2575.0	37800	V	17.11	11	-5.34	22.77	33.01
			H	8.17	11	-5.34	13.83	33.01
	2595.0	38000	V	17.85	11.03	-5.35	23.53	33.01
			H	8.48	11.03	-5.35	14.16	33.01
	2615.0	38200	V	22.95	11.05	-5.37	28.63	33.01
			H	13.97	11.05	-5.37	19.65	33.01

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 38 BW: 15M QPSK RB: 1,0	2577.5	37825	V	17.21	10.99	-5.34	22.86	33.01
			H	8.49	10.99	-5.34	14.15	33.01
	2595.0	38000	V	16.85	11.02	-5.34	22.53	33.01
			H	7.75	11.02	-5.34	13.42	33.01
	2612.5	38175	V	23.1	11.04	-5.36	28.78	33.01
			H	13.49	11.04	-5.36	19.17	33.01
BAND 38 BW: 15M QPSK RB: 1,74	2577.5	37825	V	16.57	11.01	-5.34	22.24	33.01
			H	7.97	11.01	-5.34	13.63	33.01
	2595.0	38000	V	23.63	11.03	-5.35	29.31	33.01
			H	13.94	11.03	-5.35	19.62	33.01
	2612.5	38175	V	22.78	11.05	-5.37	28.46	33.01
			H	13.43	11.05	-5.37	19.11	33.01
BAND 38 BW: 15M 16QAM RB: 1,0	2577.5	37825	V	17.27	10.99	-5.34	22.93	33.01
			H	8.52	10.99	-5.34	14.18	33.01
	2595.0	38000	V	17.44	11.02	-5.34	23.11	33.01
			H	8.28	11.02	-5.34	13.96	33.01
	2612.5	38175	V	23.07	11.04	-5.36	28.74	33.01
			H	13.36	11.04	-5.36	19.04	33.01
BAND 38 BW: 15M 16QAM RB: 1,74	2577.5	37825	V	17.23	11.01	-5.34	22.9	33.01
			H	7.87	11.01	-5.34	13.54	33.01
	2595.0	38000	V	23.57	11.03	-5.35	29.24	33.01
			H	13.97	11.03	-5.35	19.65	33.01
	2612.5	38175	V	22.73	11.05	-5.37	28.41	33.01
			H	13.4	11.05	-5.37	19.09	33.01

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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 38 BW: 20M QPSK RB: 1,0	2580.0	37850	V	17.28	10.99	-5.34	22.93	33.01
			H	8.01	10.99	-5.34	13.66	33.01
	2595.0	38000	V	23.02	11.01	-5.34	28.68	33.01
			H	7.69	11.01	-5.34	13.36	33.01
	2610.0	38150	V	17.06	11.03	-5.35	22.74	33.01
			H	13.89	11.03	-5.35	19.57	33.01
BAND 38 BW: 20M QPSK RB: 1,99	2580.0	37850	V	17.05	11.01	-5.34	22.72	33.01
			H	7.89	11.01	-5.34	13.56	33.01
	2595.0	38000	V	23.22	11.03	-5.35	28.9	33.01
			H	13.76	11.03	-5.35	19.44	33.01
	2610.0	38150	V	16.04	11.05	-5.37	21.72	33.01
			H	13.28	11.05	-5.37	18.96	33.01
BAND 38 BW: 20M 16QAM RB: 1,0	2580.0	37850	V	17.2	10.99	-5.34	22.86	33.01
			H	8.41	10.99	-5.34	14.07	33.01
	2595.0	38000	V	23.14	11.01	-5.34	28.81	33.01
			H	8.19	11.01	-5.34	13.86	33.01
	2610.0	38150	V	17.74	11.03	-5.35	23.42	33.01
			H	13.79	11.03	-5.35	19.47	33.01
BAND 38 BW: 20M 16QAM RB: 1,99	2580.0	37850	V	17.66	11.01	-5.34	23.33	33.01
			H	8.43	11.01	-5.34	14.1	33.01
	2595.0	38000	V	23.31	11.03	-5.35	28.99	33.01
			H	13.74	11.03	-5.35	19.42	33.01
	2610.0	38150	V	22.59	11.05	-5.37	28.27	33.01
			H	13.32	11.05	-5.37	19	33.01

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	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 41 BW: 5M QPSK RB: 1,0	2557.5	40265	V	16.5	10.97	-5.34	22.13	33.01
			H	7.83	10.97	-5.34	13.46	33.01
	2605.0	40740	V	23.24	11.03	-5.35	28.92	33.01
			H	14.34	11.03	-5.35	20.02	33.01
	2652.5	41215	V	22.61	11.09	-5.42	28.28	33.01
			H	7.71	11.09	-5.42	13.38	33.01
BAND 41 BW: 5M QPSK RB: 1,24	2557.5	40265	V	16.14	10.98	-5.34	21.77	33.01
			H	7.42	10.98	-5.34	13.05	33.01
	2605.0	40740	V	22.96	11.04	-5.36	28.64	33.01
			H	14.11	11.04	-5.36	19.79	33.01
	2652.5	41215	V	22.29	11.1	-5.43	27.95	33.01
			H	14.18	11.1	-5.43	19.85	33.01
BAND 41 BW: 5M 16QAM RB: 1,0	2557.5	40265	V	17.08	10.97	-5.34	22.71	33.01
			H	7.99	10.97	-5.34	13.62	33.01
	2605.0	40740	V	23.07	11.03	-5.35	28.75	33.01
			H	13.94	11.03	-5.35	19.62	33.01
	2652.5	41215	V	22.41	11.09	-5.42	28.08	33.01
			H	8.24	11.09	-5.42	13.91	33.01
BAND 41 BW: 5M 16QAM RB: 1,24	2557.5	40265	V	16.61	10.98	-5.34	22.25	33.01
			H	7.87	10.98	-5.34	13.5	33.01
	2605.0	40740	V	22.9	11.04	-5.36	28.58	33.01
			H	14.05	11.04	-5.36	19.73	33.01
	2652.5	41215	V	16.81	11.1	-5.43	22.48	33.01
			H	14.01	11.09	-5.43	19.68	33.01

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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 41 BW: 10M QPSK RB: 1,0	2560.0	40290	V	16.93	10.97	-5.34	22.56	33.01
			H	7.49	10.97	-5.34	13.12	33.01
	2605.0	40740	V	22.75	11.03	-5.35	28.43	33.01
			H	7.98	11.03	-5.35	13.66	33.01
	2650.0	41190	V	16.37	11.08	-5.41	22.04	33.01
			H	14.03	11.08	-5.41	19.7	33.01
BAND 41 BW: 10M QPSK RB: 1,49	2560.0	40290	V	15.81	10.98	-5.34	21.45	33.01
			H	7.24	10.98	-5.34	12.88	33.01
	2605.0	40740	V	16.24	11.04	-5.36	21.92	33.01
			H	7.68	11.04	-5.36	13.36	33.01
	2650.0	41190	V	21.88	11.1	-5.43	27.54	33.01
			H	8.02	11.09	-5.43	13.68	33.01
BAND 41 BW: 10M 16QAM RB: 1,0	2560.0	40290	V	17.07	10.97	-5.34	22.7	33.01
			H	8.12	10.97	-5.34	13.75	33.01
	2605.0	40740	V	22.98	11.03	-5.35	28.66	33.01
			H	8.6	11.03	-5.35	14.28	33.01
	2650.0	41190	V	22.46	11.08	-5.41	28.13	33.01
			H	14.11	11.08	-5.41	19.78	33.01
BAND 41 BW: 10M 16QAM RB: 1,49	2560.0	40290	V	16.57	10.98	-5.34	22.21	33.01
			H	7.83	10.98	-5.34	13.47	33.01
	2605.0	40740	V	16.93	11.04	-5.36	22.61	33.01
			H	8.36	11.04	-5.36	14.04	33.01
	2650.0	41190	V	22.19	11.1	-5.43	27.85	33.01
			H	14.15	11.09	-5.43	19.82	33.01

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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 41 BW: 15M QPSK RB: 1,0	2562.5	40315	V	16.38	10.97	-5.34	22.01	33.01
			H	7.56	10.97	-5.34	13.19	33.01
	2605.0	40740	V	23.32	11.02	-5.35	29	33.01
			H	8.09	11.03	-5.35	13.77	33.01
	2647.5	41165	V	22.89	11.08	-5.4	28.57	33.01
			H	14.21	11.08	-5.4	19.88	33.01
BAND 41 BW: 15M QPSK RB: 1,74	2562.5	40315	V	15.99	10.99	-5.34	21.64	33.01
			H	6.98	10.99	-5.34	12.62	33.01
	2605.0	40740	V	16.22	11.04	-5.36	21.9	33.01
			H	14.39	11.04	-5.36	20.07	33.01
	2647.5	41165	V	22.23	11.1	-5.43	27.89	33.01
			H	14.18	11.09	-5.43	19.84	33.01
BAND 41 BW: 15M 16QAM RB: 1,0	2562.5	40315	V	17	10.97	-5.34	22.63	33.01
			H	-1.91	10.97	-5.34	3.72	33.01
	2605.0	40740	V	17.49	11.02	-5.35	23.17	33.01
			H	8.72	11.02	-5.35	14.4	33.01
	2647.5	41165	V	22.77	11.08	-5.4	28.44	33.01
			H	14.19	11.08	-5.4	19.87	33.01
BAND 41 BW: 15M 16QAM RB: 1,74	2562.5	40315	V	16.57	10.99	-5.34	22.22	33.01
			H	7.65	10.99	-5.34	13.3	33.01
	2605.0	40740	V	22.6	11.04	-5.36	28.28	33.01
			H	14.37	11.04	-5.36	20.05	33.01
	2647.5	41165	V	22.17	11.09	-5.43	27.84	33.01
			H	14.17	11.09	-5.43	19.83	33.01

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 41 BW: 20M QPSK RB: 1,0	2565.0	40340	V	16.38	10.97	-5.34	22.01	33.01
			H	7.53	10.97	-5.34	13.16	33.01
	2605.0	40740	V	23.25	11.02	-5.35	28.93	33.01
			H	14.54	11.02	-5.35	20.22	33.01
	2645.0	41140	V	22.86	11.07	-5.39	28.54	33.01
			H	14.16	11.07	-5.39	19.84	33.01
BAND 41 BW: 20M QPSK RB: 1,99	2565.0	40340	V	16.09	10.99	-5.34	21.75	33.01
			H	6.8	10.99	-5.34	12.45	33.01
	2605.0	40740	V	22.42	11.04	-5.36	28.11	33.01
			H	14.29	11.04	-5.36	19.97	33.01
	2645.0	41140	V	22.13	11.09	-5.43	27.79	33.01
			H	14.08	11.09	-5.43	19.75	33.01
BAND 41 BW: 20M 16QAM RB: 1,0	2565.0	40340	V	16.96	10.97	-5.34	22.59	33.01
			H	8.09	10.97	-5.34	13.72	33.01
	2605.0	40740	V	23.28	11.02	-5.34	28.96	33.01
			H	14.56	11.02	-5.34	20.23	33.01
	2645.0	41140	V	22.83	11.07	-5.39	28.51	33.01
			H	14.22	11.07	-5.39	19.89	33.01
BAND 41 BW: 20M 16QAM RB: 1,99	2565.0	40340	V	16.68	10.99	-5.34	22.33	33.01
			H	7.42	10.99	-5.34	13.07	33.01
	2605.0	40740	V	22.55	11.04	-5.36	28.23	33.01
			H	14.32	11.04	-5.36	20	33.01
	2645.0	41140	V	22.14	11.09	-5.43	27.81	33.01
			H	13.92	11.09	-5.43	19.58	33.01

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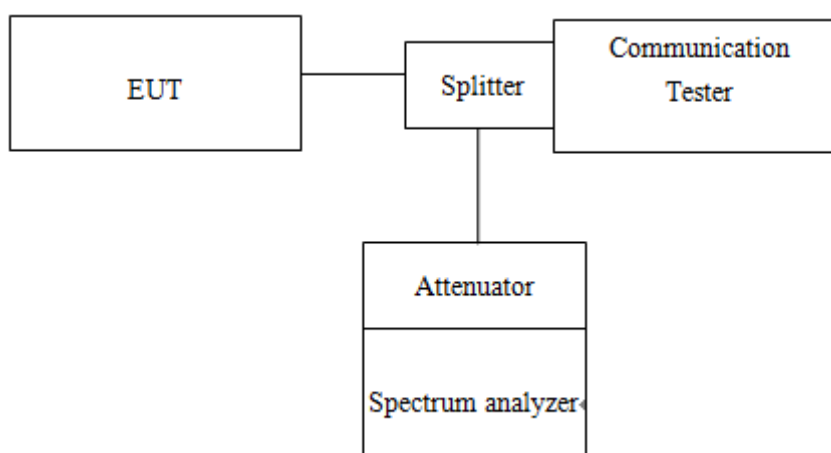
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8. OCCUPIED BANDWIDTH MEASUREMENT

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%.

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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	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	05/17/2016	05/16/2017
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 Analyzer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

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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	248.86	242.55	248.87
836.60	190	245.49	244.19	243.42
848.80	251	244.55	243.14	247.29

Frequency (MHz)	CH	99% Bandwidth (KHz)	99% Bandwidth (KHz)	99% Bandwidth (KHz)
		GSM 1900	GPRS 1900	EDGE 1900
1850.20	512	244.67	245.94	255.07
1880.00	661	247.50	245.19	255.91
1909.80	810	244.39	243.61	253.20

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.2086	4.2106	4.2175
1880.00	9400	4.2062	4.2039	4.2086
1909.80	9538	4.2018	4.2011	4.2024

Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.2078	4.2150	4.2067
836.60	4183	4.2030	4.2074	4.2002
846.60	4233	4.2130	4.2236	4.2232

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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	1.0970	1.1109	1851.5	18615	2.7021	2.7041
1880.0	18900	1.0919	1.0989	1880.0	18900	2.7071	2.6978
1909.3	19193	1.0981	1.0945	1908.5	19185	2.7088	2.7020

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	4.5096	4.5099	1855.0	18650	9.0295	8.9776
1880.0	18900	4.5165	4.5051	1880.0	18900	8.9887	8.9657
1907.5	19175	4.5158	4.5171	1905.0	19150	8.9646	8.9385

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	13.4688	13.4851	1860.0	18700	17.9267	17.9006
1880.0	18900	13.4706	13.4445	1880.0	18900	17.9492	17.9422
1902.5	19125	13.4302	13.4800	1900.0	19100	17.8493	17.9115

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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	1.0970	1.0931	825.5	20415	2.7039	2.7018
836.5	20525	1.0946	1.0958	836.5	20525	2.7120	2.7004
848.3	20643	1.0923	1.0984	847.5	20635	2.7067	2.7098

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	4.5063	4.5213	829.0	20450	9.0079	8.9752
836.5	20525	4.4991	4.5006	836.5	20525	8.9943	8.9543
846.5	20625	4.4945	4.5191	844.0	20600	9.0189	8.9762

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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	4.4992	4.5130	2505.0	20800	8.9529	8.9678
2535.0	21100	4.5150	4.5109	2535.0	21100	8.9664	8.9678
2567.5	21425	4.5057	4.5248	2565.0	21400	8.9818	8.9762

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	13.4780	13.4916	2510.0	20850	17.9397	18.0058
2535.0	21100	13.5120	13.4873	2535.0	21100	17.9167	17.9349
2562.5	21375	13.5031	13.4635	2560.0	21350	17.9479	17.9087

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LTE BAND 38							
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
2572.5	37775	4.5254	4.5092	2575.0	37800	8.9837	8.9481
2595.0	38000	4.4996	4.5176	2595.0	38000	8.9843	8.9458
2617.5	38225	4.4974	4.4990	2615.0	38200	8.9693	8.9776

LTE BAND 38							
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
2577.5	37825	13.4689	13.4527	2580.0	37850	17.9969	17.9999
2595.0	38000	13.5003	13.4786	2595.0	38000	17.9120	17.9772
2612.5	38175	13.4339	13.4153	2610.0	38150	17.9209	18.0058

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LTE BAND 41							
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
2557.5	40265	4.5167	4.5129	2560.0	40290	8.9544	8.9595
2605.0	40740	4.5079	4.5063	2605.0	40740	8.9448	8.9439
2652.5	41215	4.5122	4.5200	2650.0	41190	8.9576	8.9713

LTE BAND 41							
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
2562.5	40315	13.4839	13.4640	2565.0	40340	17.8681	17.9706
2605.0	40740	13.4954	13.4711	2605.0	40740	17.8833	17.9828
2647.5	41165	13.4870	13.5025	2645.0	41140	17.9431	18.0013

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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	284.5	243.01	284.9
836.60	190	291.2	240.66	288.7
848.80	251	286.4	242.17	292.3

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	320.7	327.0
1880.00	661	318.5	321.7	325.4
1909.80	810	318.8	311.5	321.3

Frequency (MHz)	CH	26dB Band-width (MHz)	26dB Band-width (MHz)	26dB Band-width (MHz)
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.866	4.828	4.834
1880.00	9400	4.824	4.843	4.832
1909.80	9538	4.832	4.837	4.806

Frequency (MHz)	CH	26dB Band-width (MHz)	26dB Band-width (MHz)	26dB Band-width (MHz)
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.827	4.810	4.799
836.60	4183	4.825	4.840	4.845
846.60	4233	4.816	4.819	4.818

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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	1.247	1.259	1851.5	18615	2.987	2.974
1880.0	18900	1.250	1.275	1880.0	18900	2.961	2.952
1909.3	19193	1.252	1.269	1908.5	19185	2.950	2.959

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	5.030	5.057	1855.0	18650	9.940	9.742
1880.0	18900	4.994	5.086	1880.0	18900	9.772	9.842
1907.5	19175	5.016	4.932	1905.0	19150	9.791	9.643

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	14.771	14.728	1860.0	18700	19.390	19.304
1880.0	18900	14.639	14.622	1880.0	18900	19.297	19.232
1902.5	19125	14.638	14.643	1900.0	19100	19.231	19.302

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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	1.255	1.272	825.5	20415	2.956	2.959
836.5	20525	1.259	1.269	836.5	20525	2.959	2.943
848.3	20643	1.262	1.253	847.5	20635	2.925	2.945

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	5.046	5.038	829.0	20450	9.945	9.866
836.5	20525	5.080	4.962	836.5	20525	9.912	9.762
846.5	20625	4.984	5.087	844.0	20600	9.718	9.842

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
2502.5	20775	5.018	5.027	2505.0	20800	9.816	9.817
2535.0	21100	5.076	4.961	2535.0	21100	9.793	9.876
2567.5	21425	4.991	4.999	2565.0	21400	9.739	9.754

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	14.878	14.816	2510.0	20850	19.459	19.552
2535.0	21100	14.802	14.804	2535.0	21100	19.344	19.432
2562.5	21375	14.501	14.716	2560.0	21350	19.360	19.119

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LTE BAND 38							
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
2572.5	37775	5.368	5.020	2575.0	37800	9.832	9.806
2595.0	38000	5.073	4.989	2595.0	38000	9.974	9.850
2617.5	38225	5.038	5.181	2615.0	38200	10.260	9.785

LTE BAND 38							
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
2577.5	37825	14.849	14.771	2580.0	37850	19.688	20.423
2595.0	38000	14.842	14.664	2595.0	38000	19.293	19.487
2612.5	38175	15.225	14.285	2610.0	38150	19.609	19.295

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LTE BAND 41							
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
2557.5	40265	5.572	5.137	2560.0	40290	9.676	9.776
2605.0	40740	5.031	5.147	2605.0	40740	9.724	9.916
2652.5	41215	5.015	4.963	2650.0	41190	10.073	9.747

LTE BAND 41							
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
2562.5	40315	14.671	14.678	2565.0	40340	19.382	19.286
2605.0	40740	14.626	14.529	2605.0	40740	19.479	19.448
2647.5	41165	14.885	14.696	2645.0	41140	19.391	19.464

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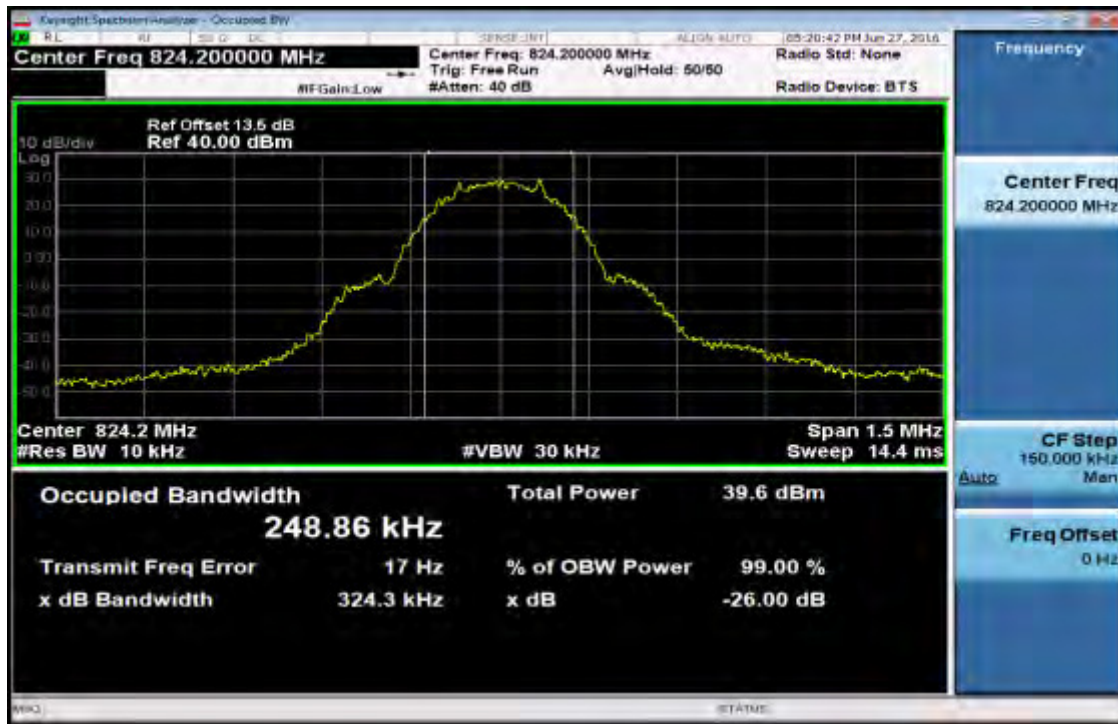
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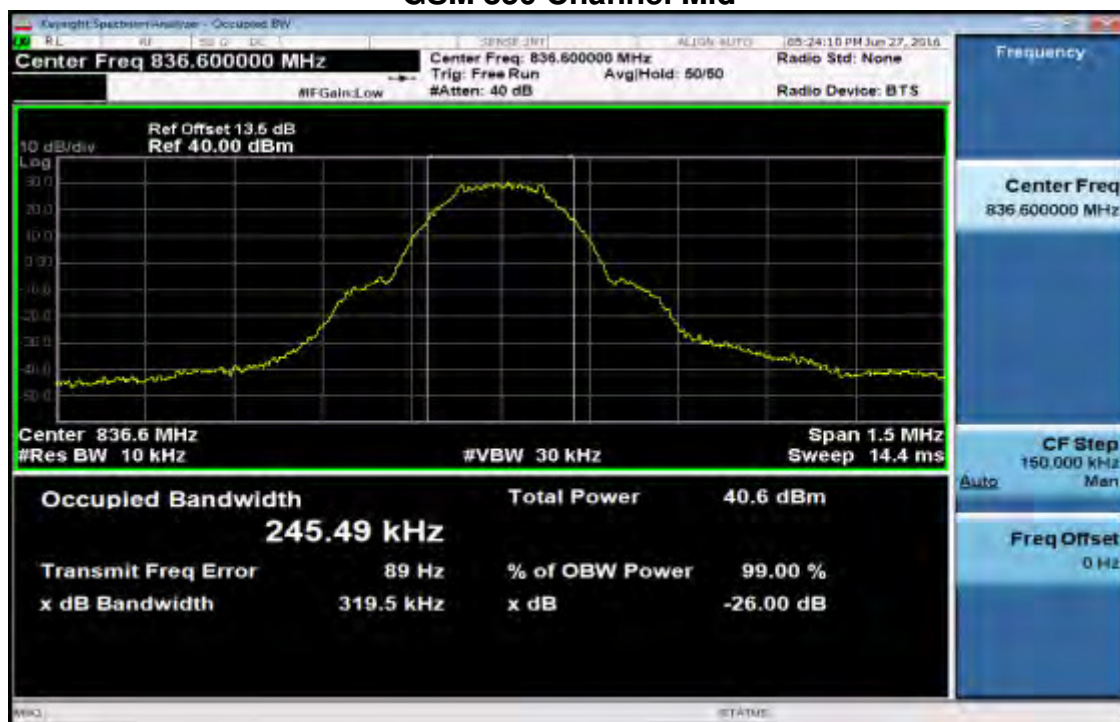
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99% & 26dB Bandwidth Test Data (Detector Peak)

GSM 850 Channel Low



GSM 850 Channel Mid



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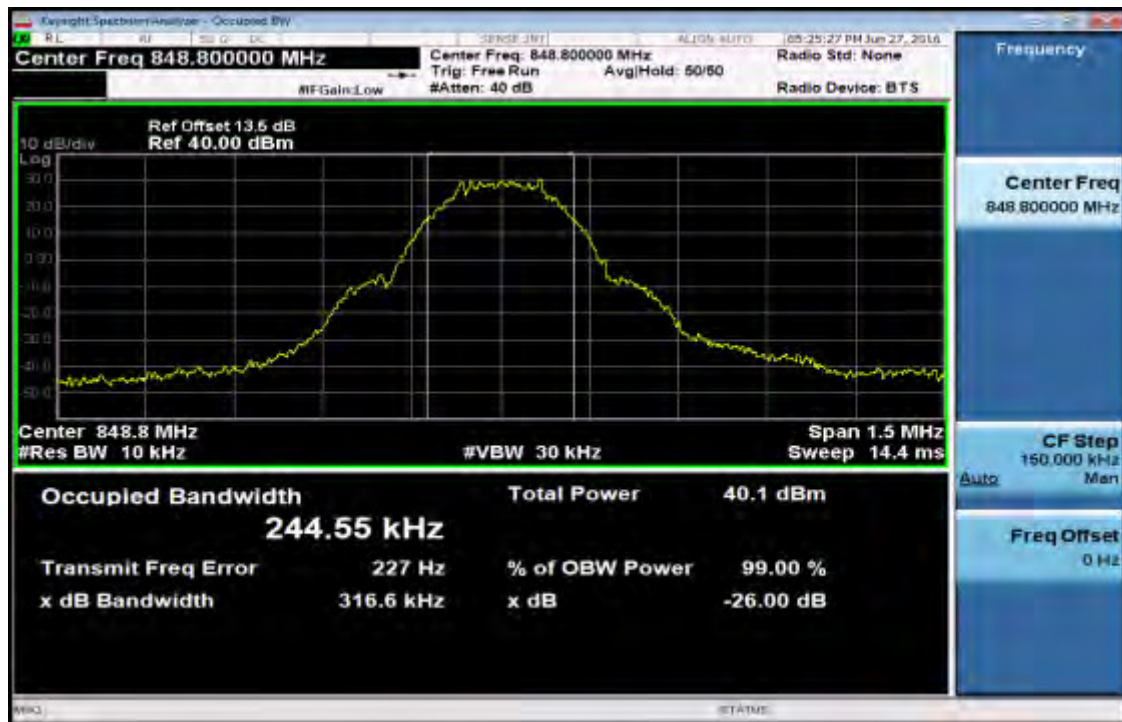
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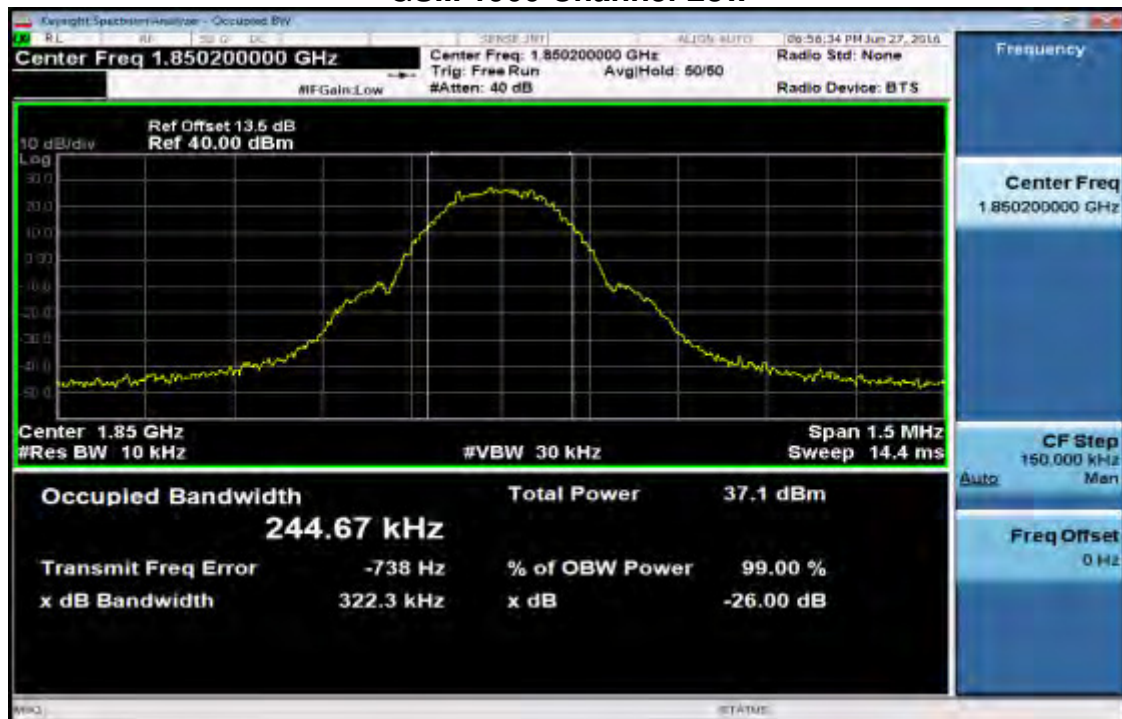
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GSM 850 Channel High



GSM 1900 Channel Low



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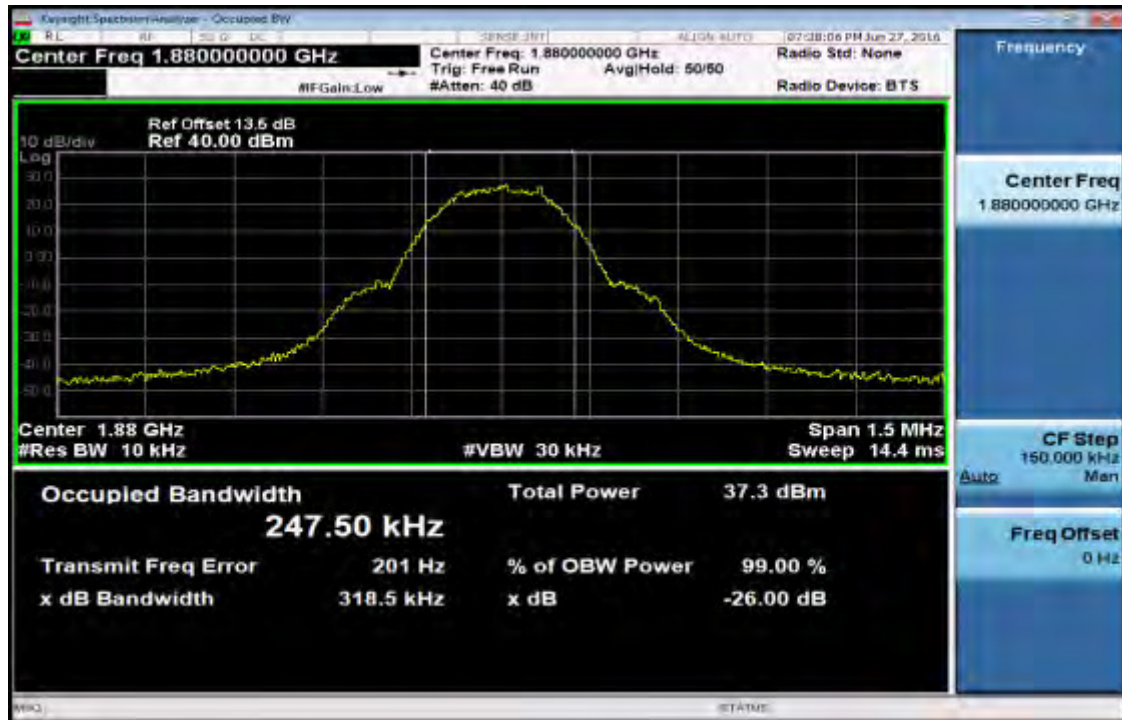
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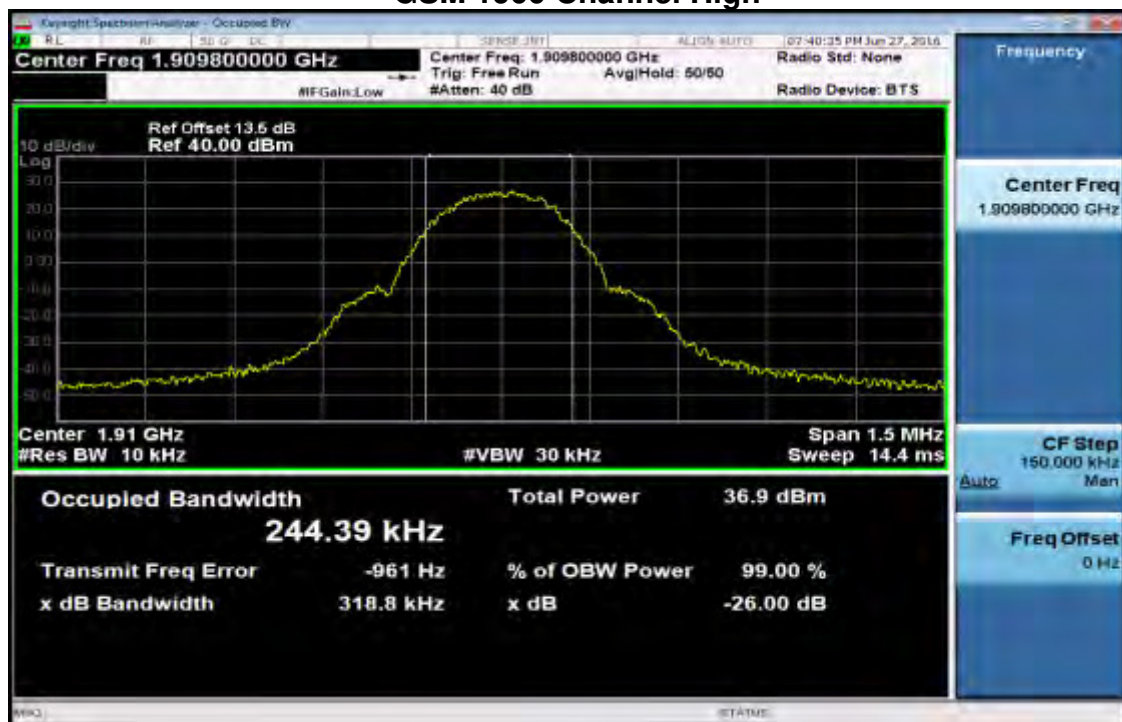
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GSM 1900 Channel Mid



GSM 1900 Channel High



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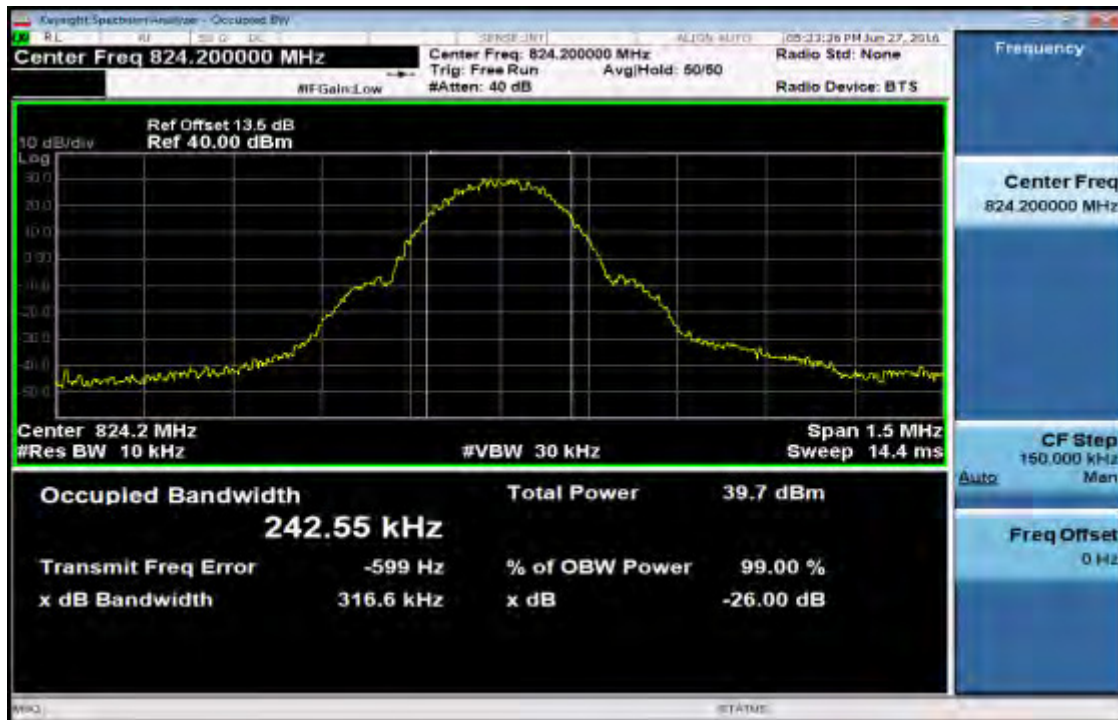
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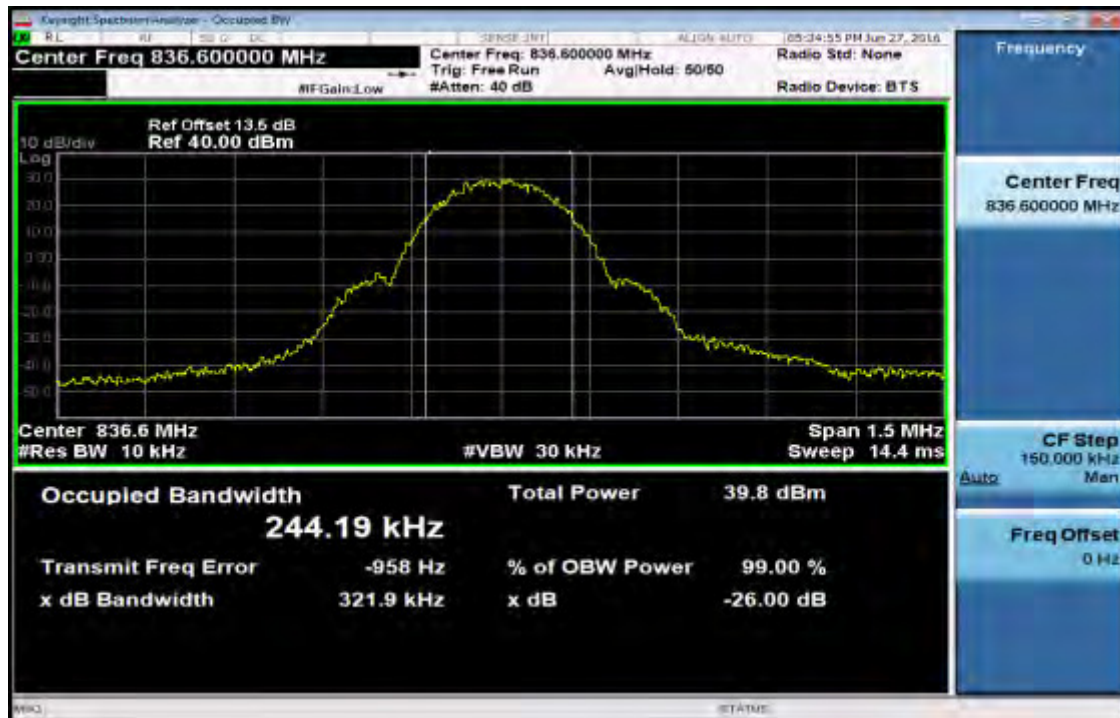
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GPRS 850 Channel Low



GPRS 850 Channel Mid



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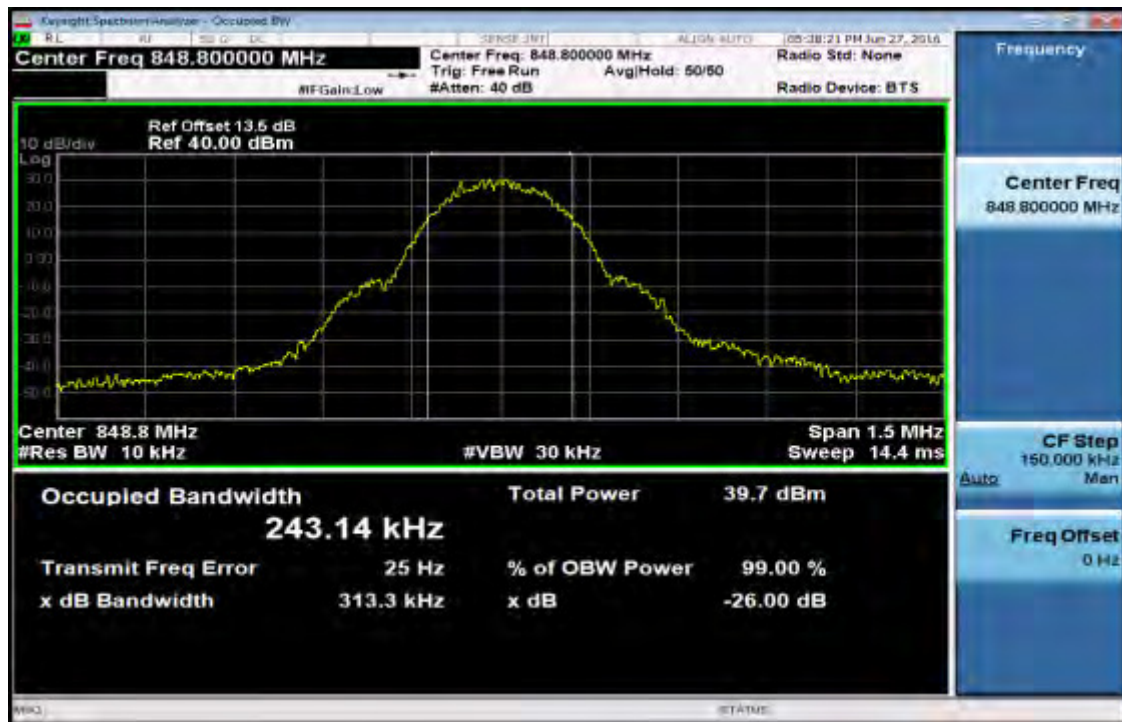
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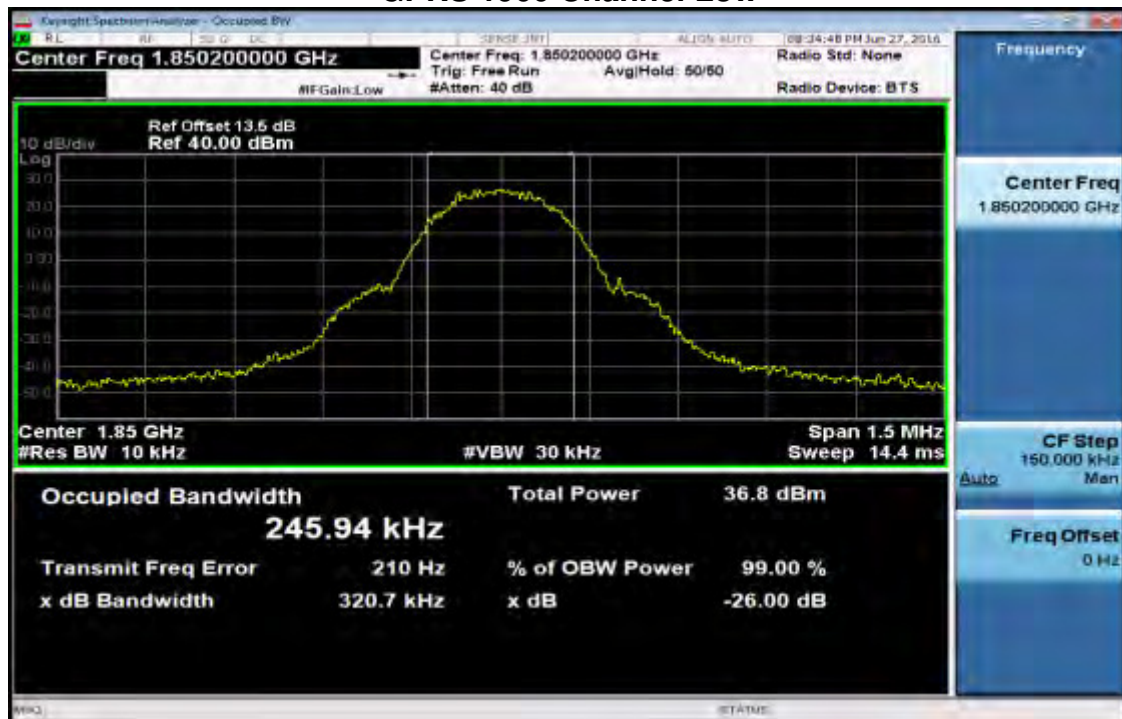
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GPRS 850 Channel High



GPRS 1900 Channel Low



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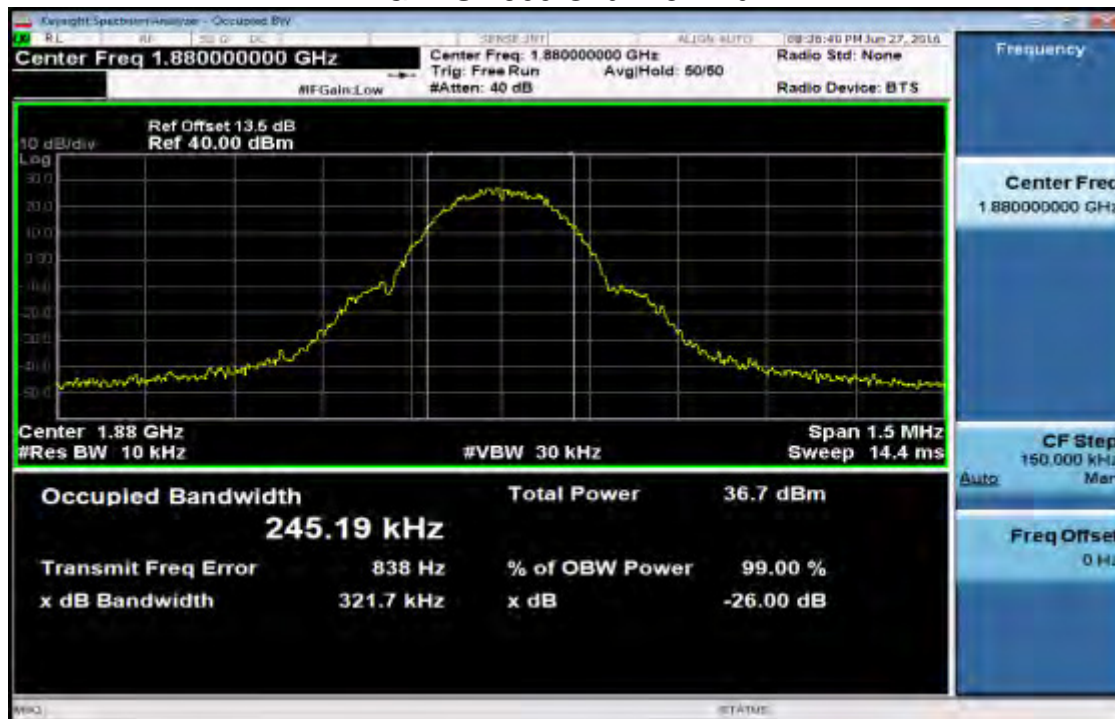
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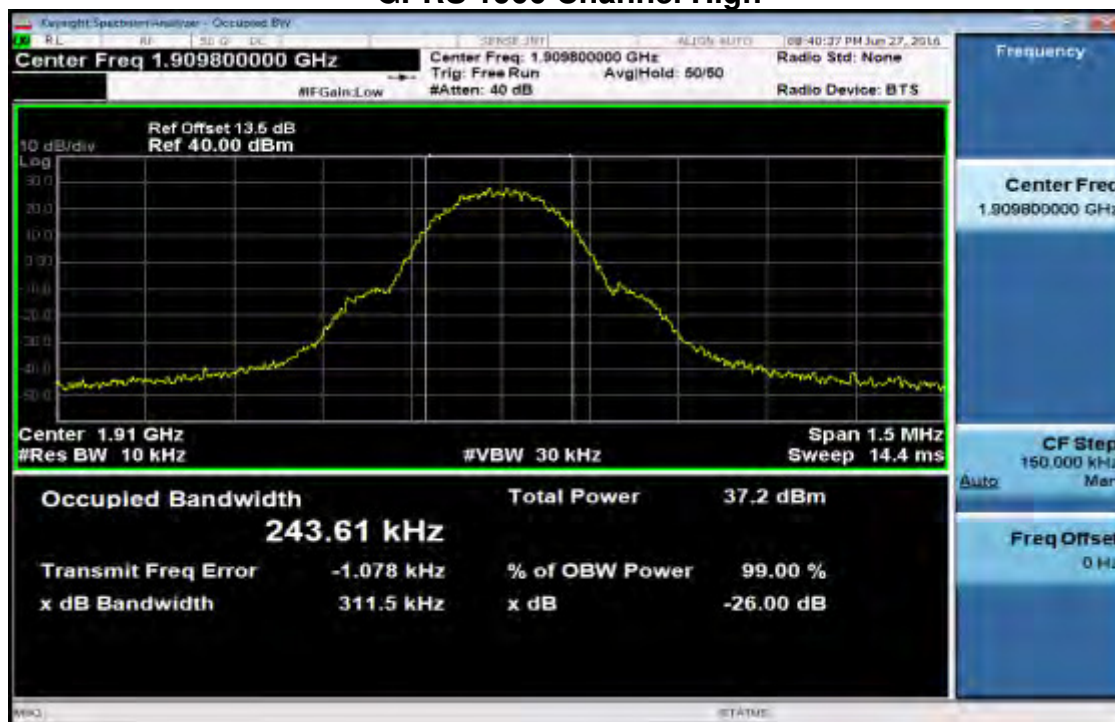
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GPRS 1900 Channel Mid



GPRS 1900 Channel High



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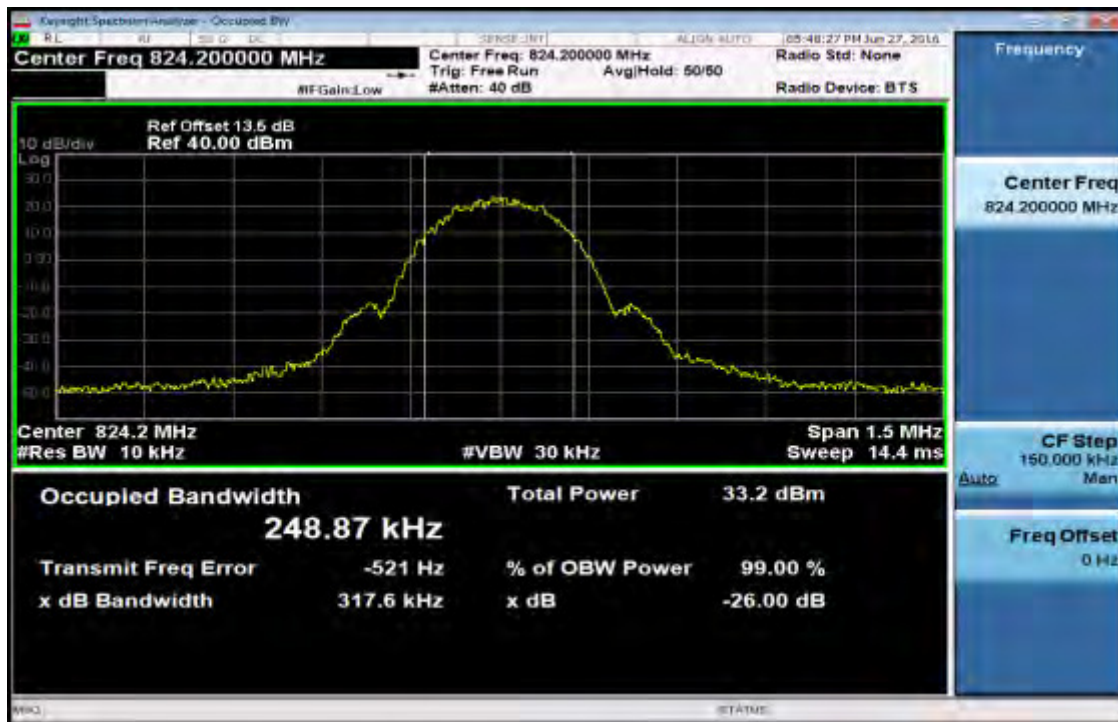
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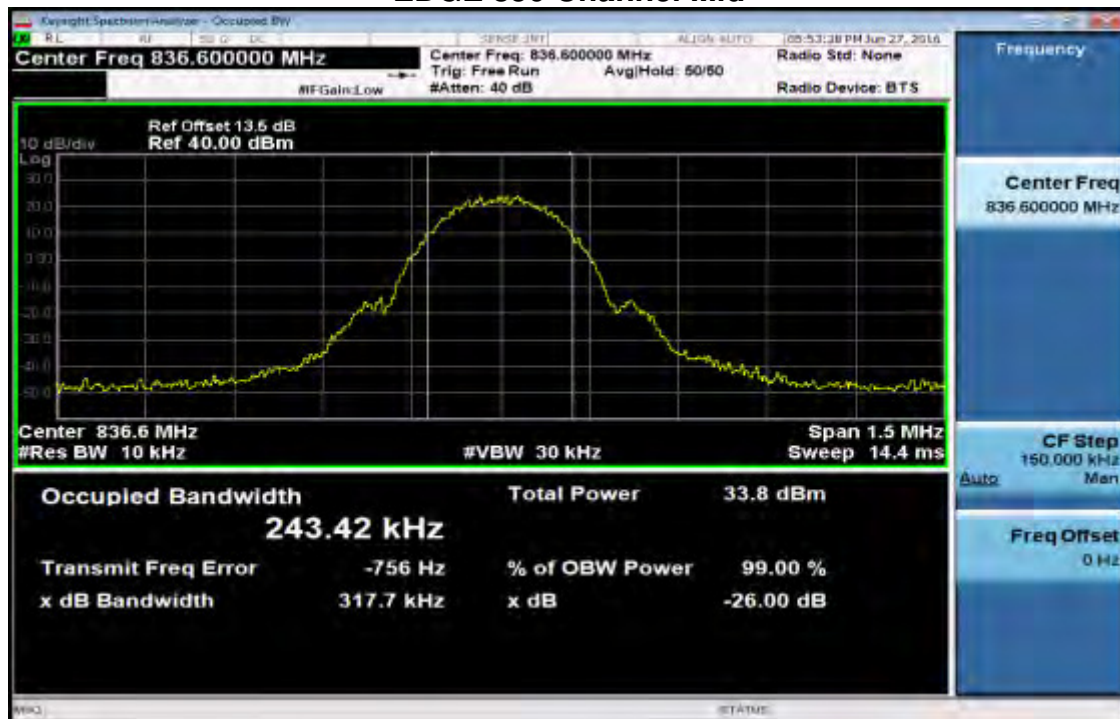
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EDGE 850 Channel Low



EDGE 850 Channel Mid



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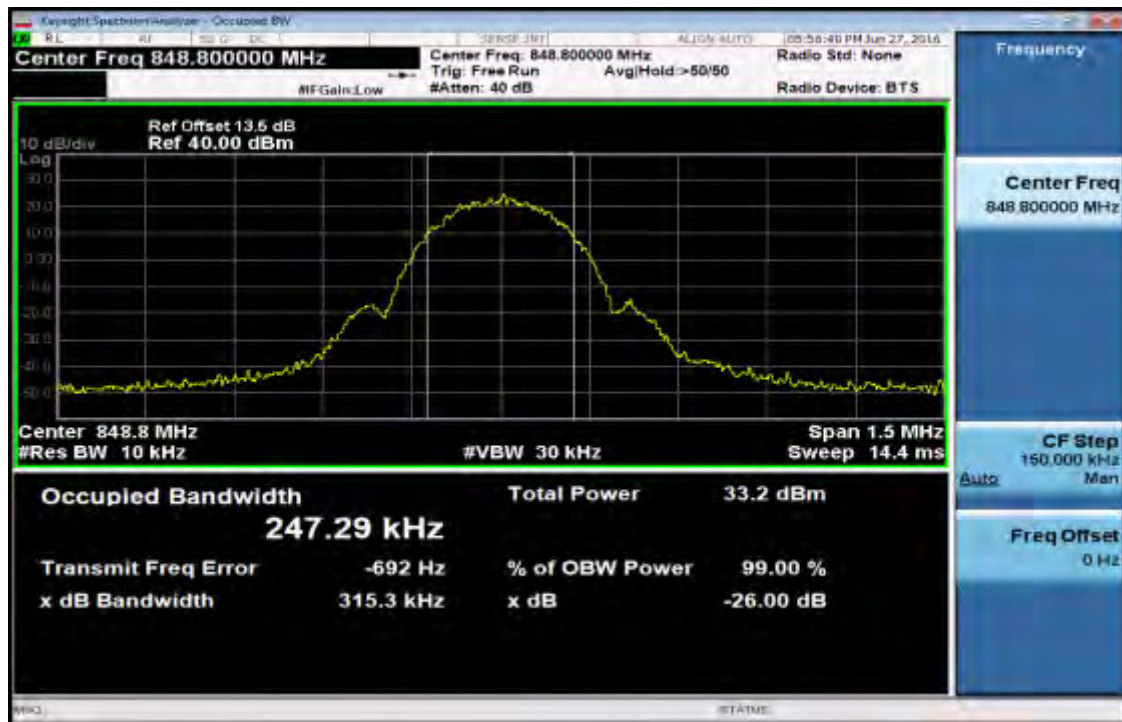
t (886-2) 2299-3279

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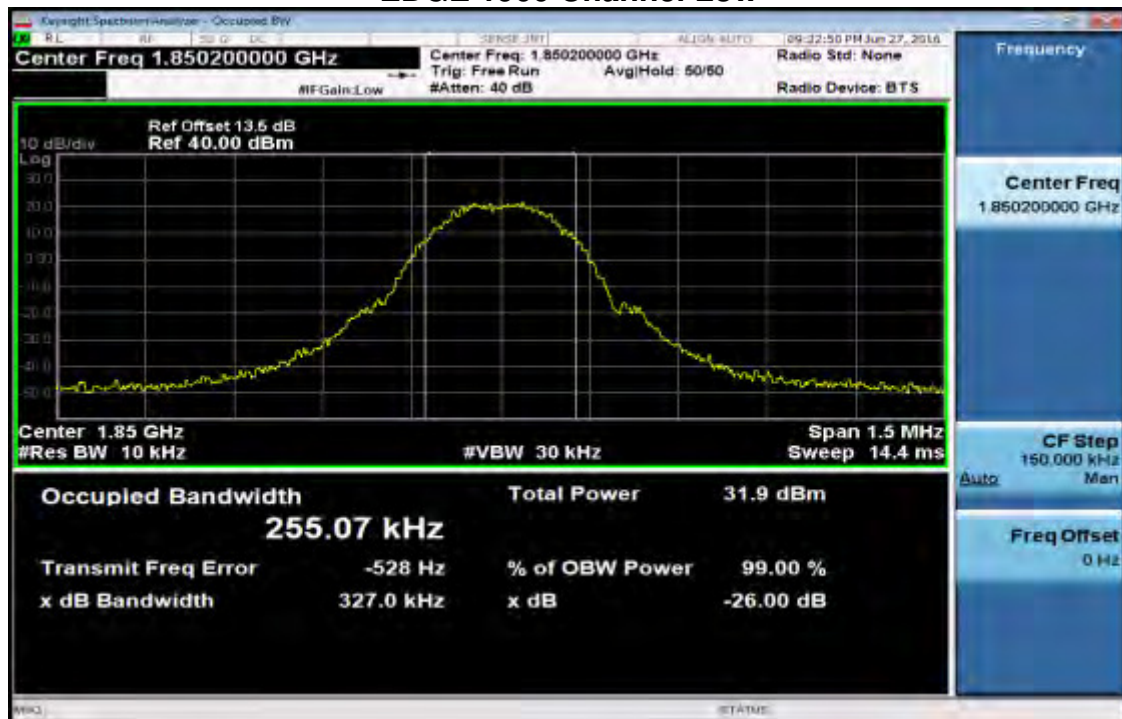
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EDGE 850 Channel High



EDGE 1900 Channel Low



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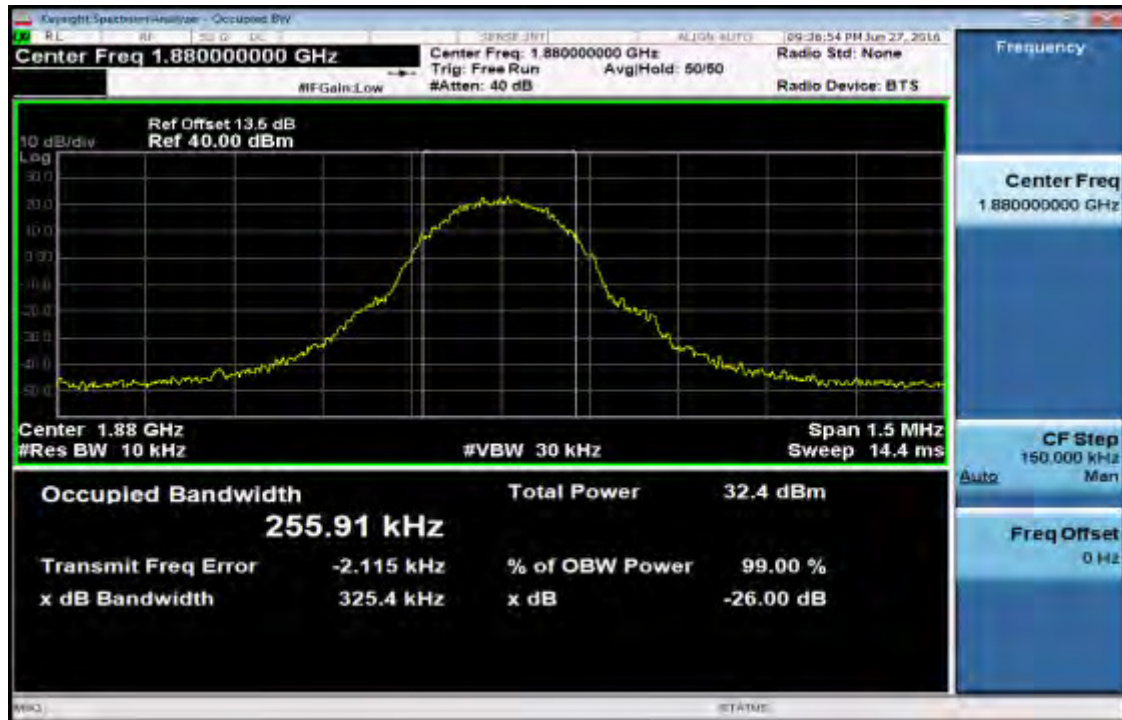
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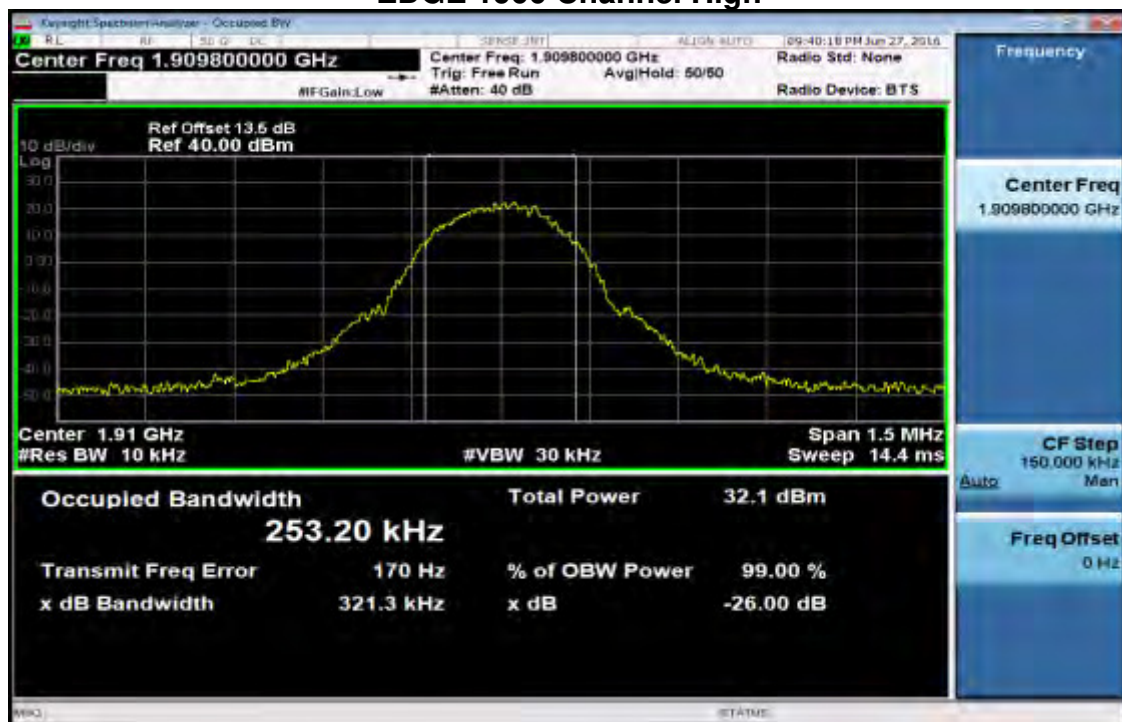
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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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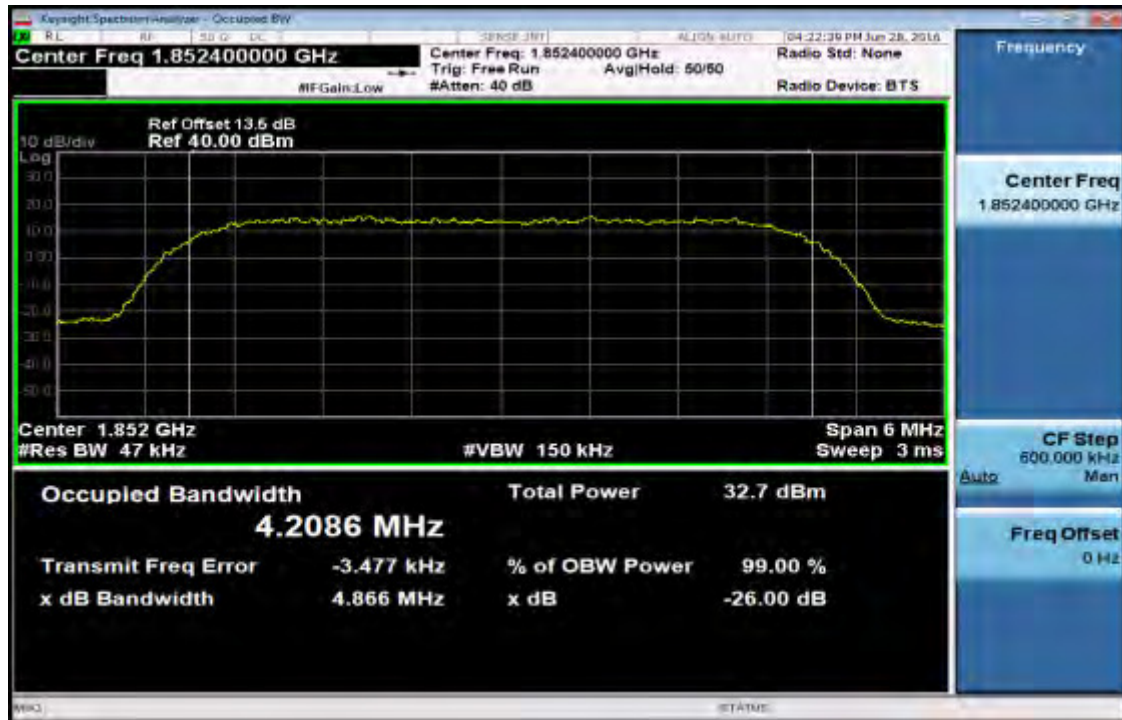
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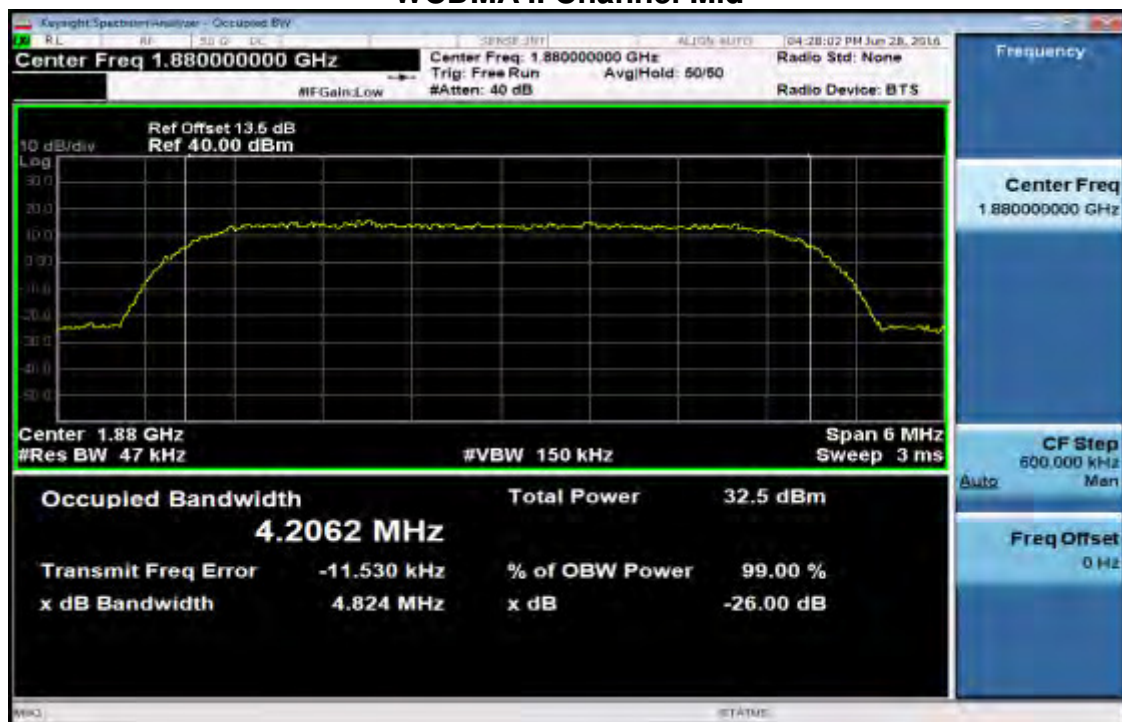
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WCDMA II Channel Low



WCDMA II Channel Mid



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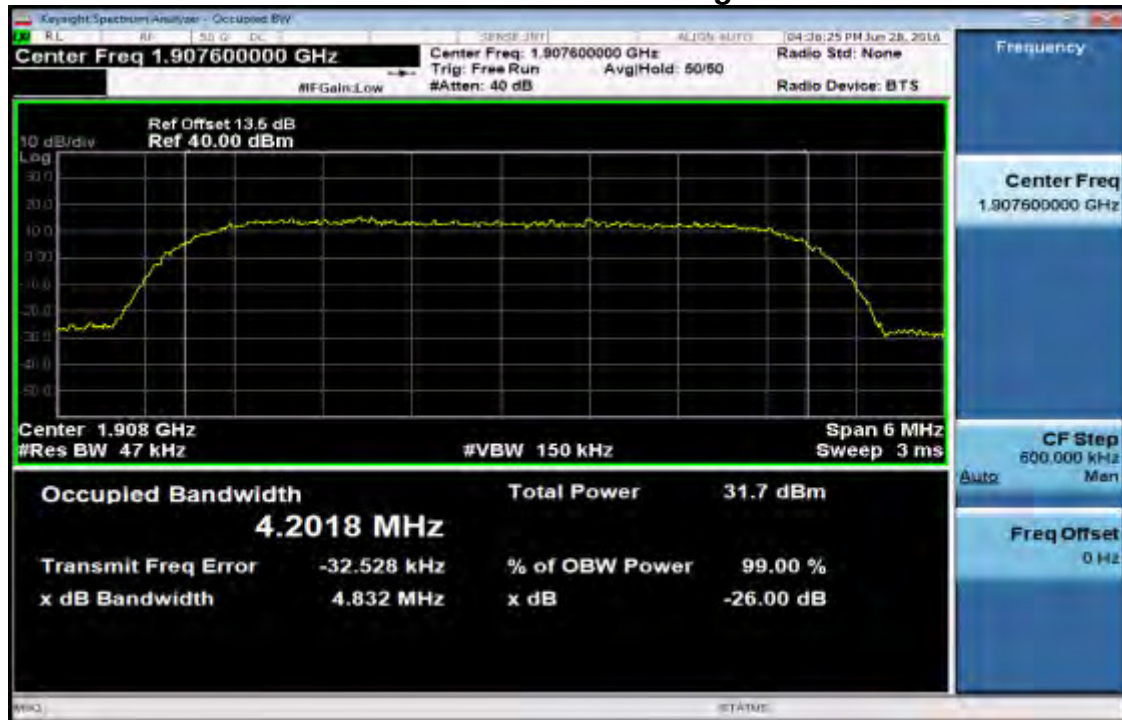
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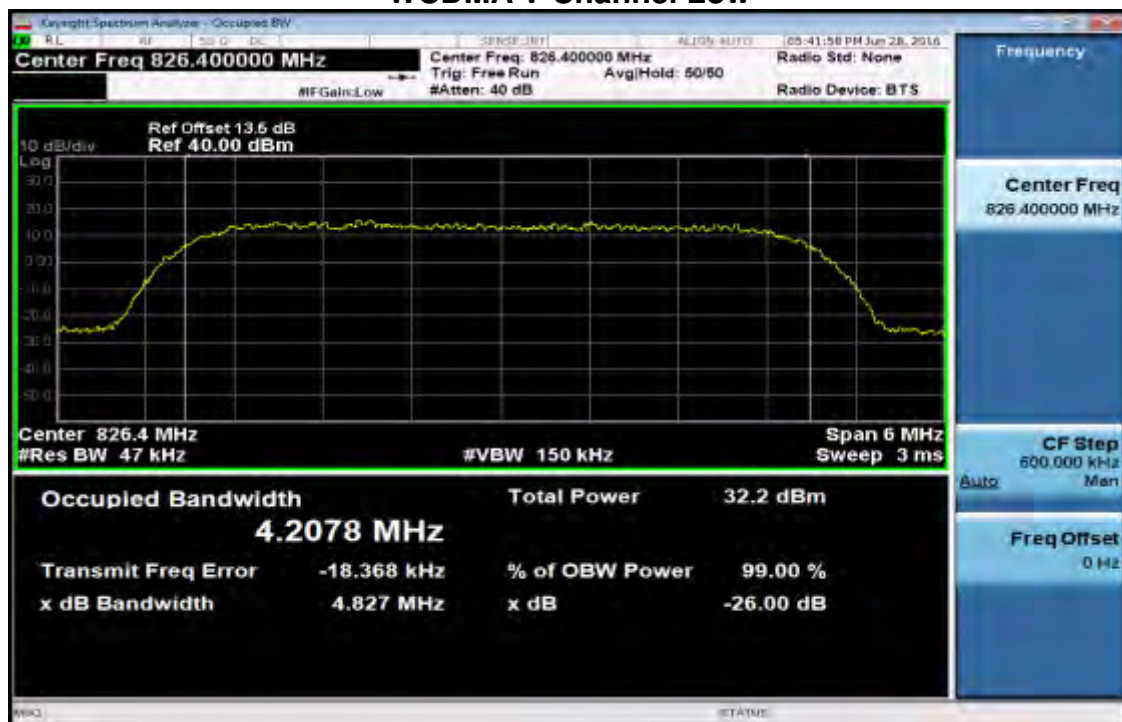
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WCDMA II Channel High



WCDMA V Channel Low



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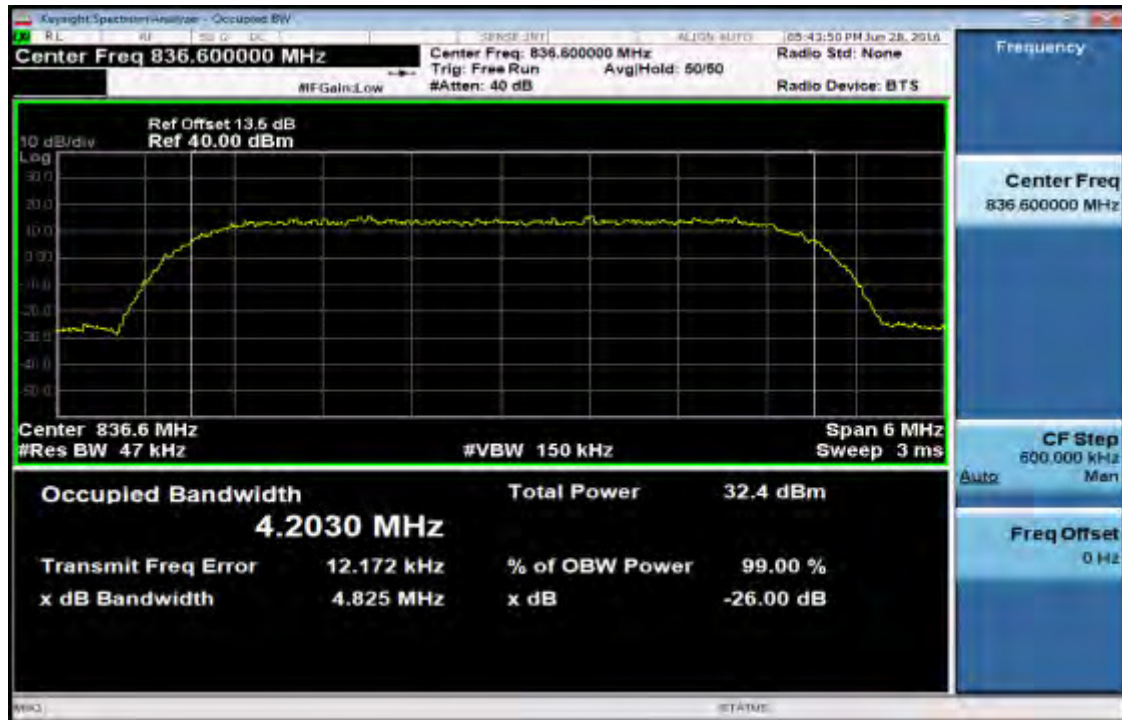
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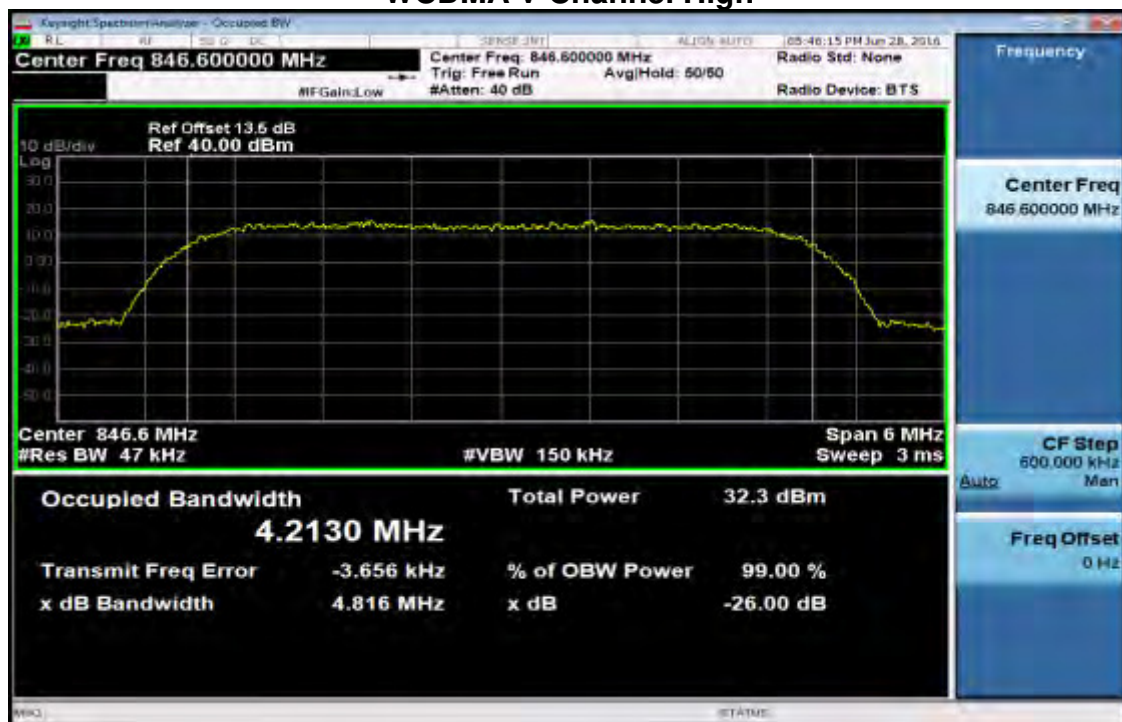
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WCDMA V Channel Mid



WCDMA V Channel High



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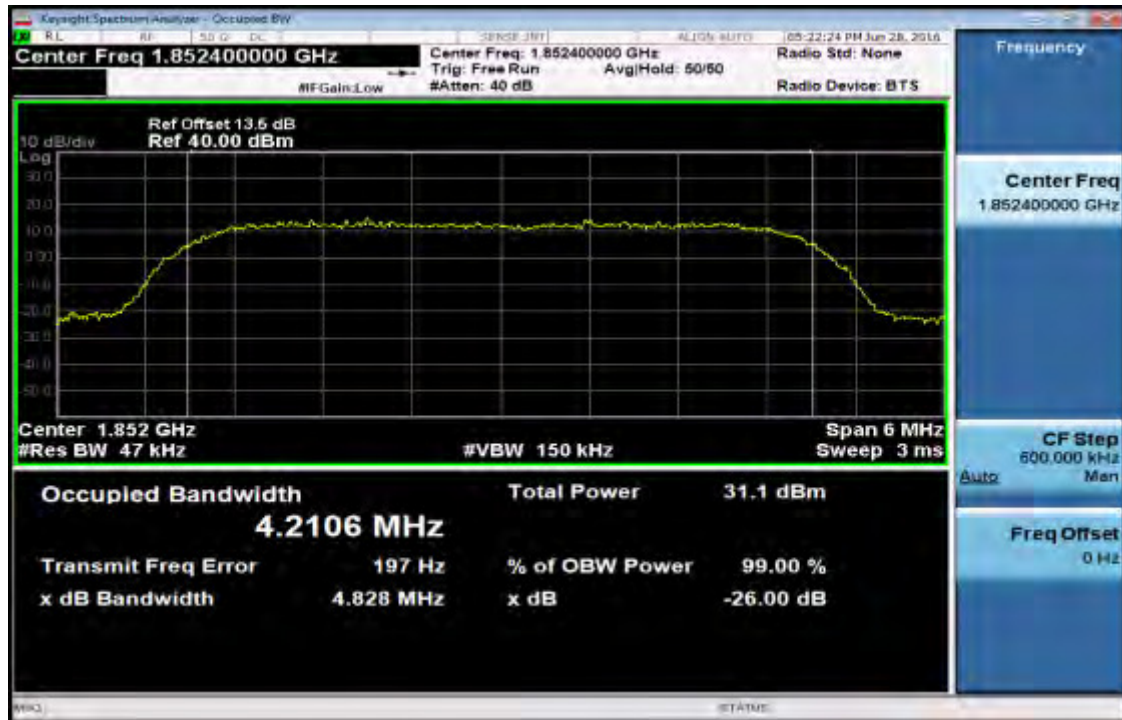
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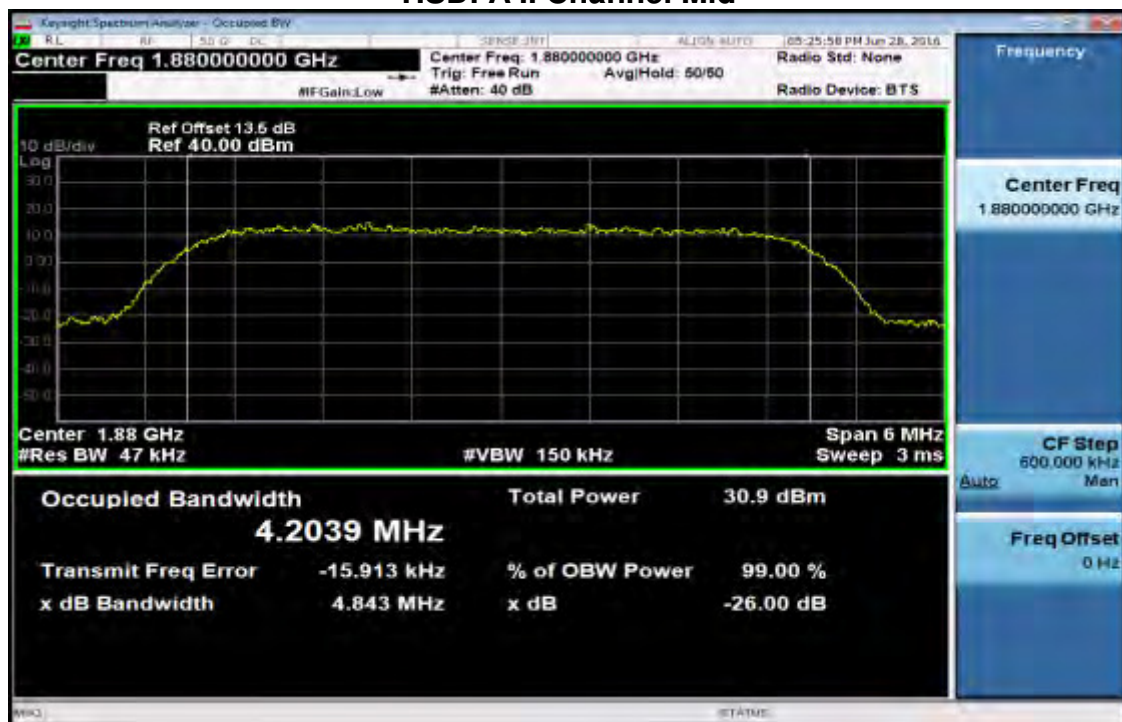
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HSDPA II Channel Low



HSDPA II Channel Mid



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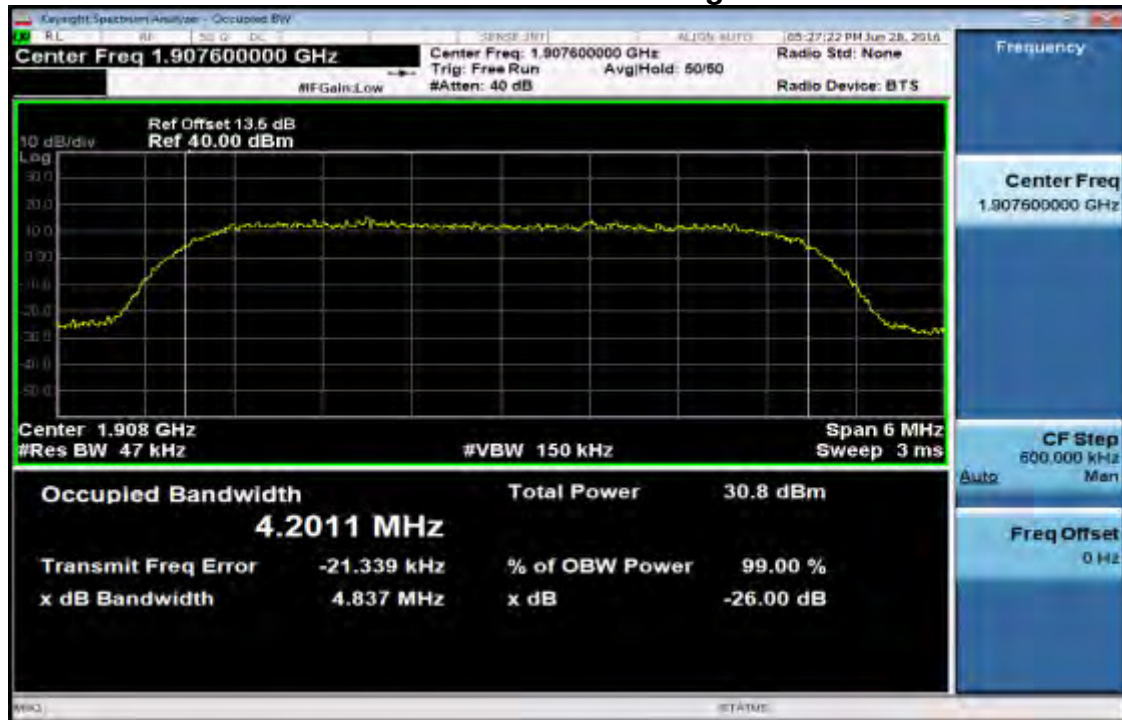
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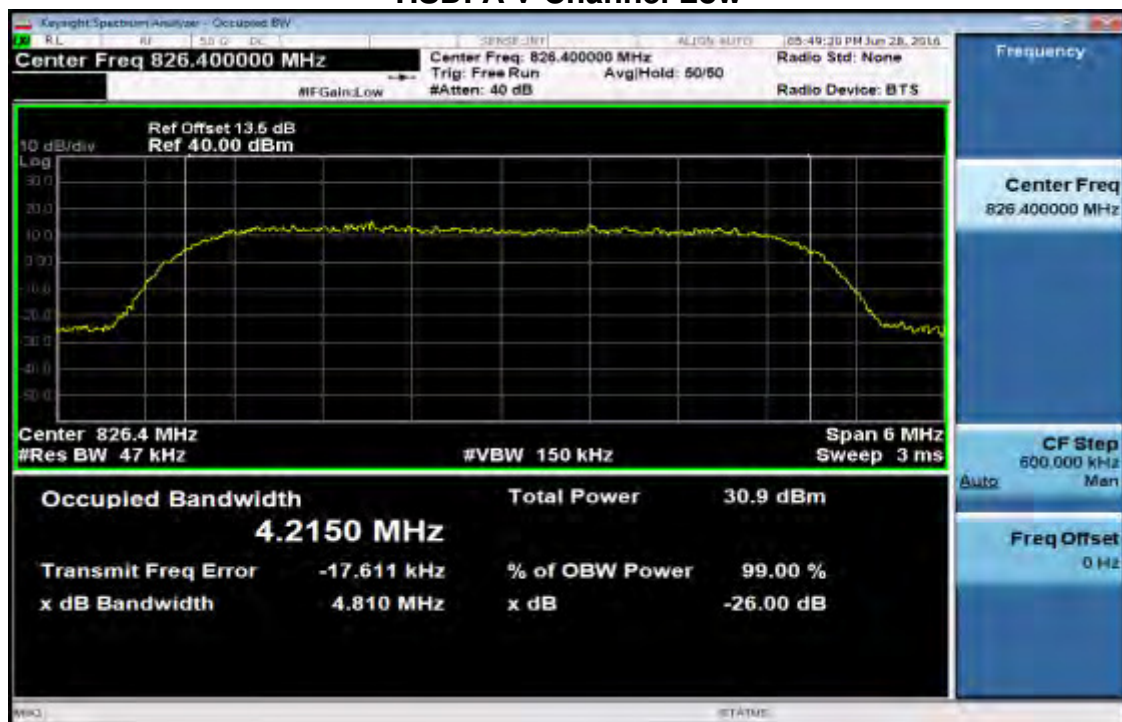
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HSDPA II Channel High



HSDPA V Channel Low



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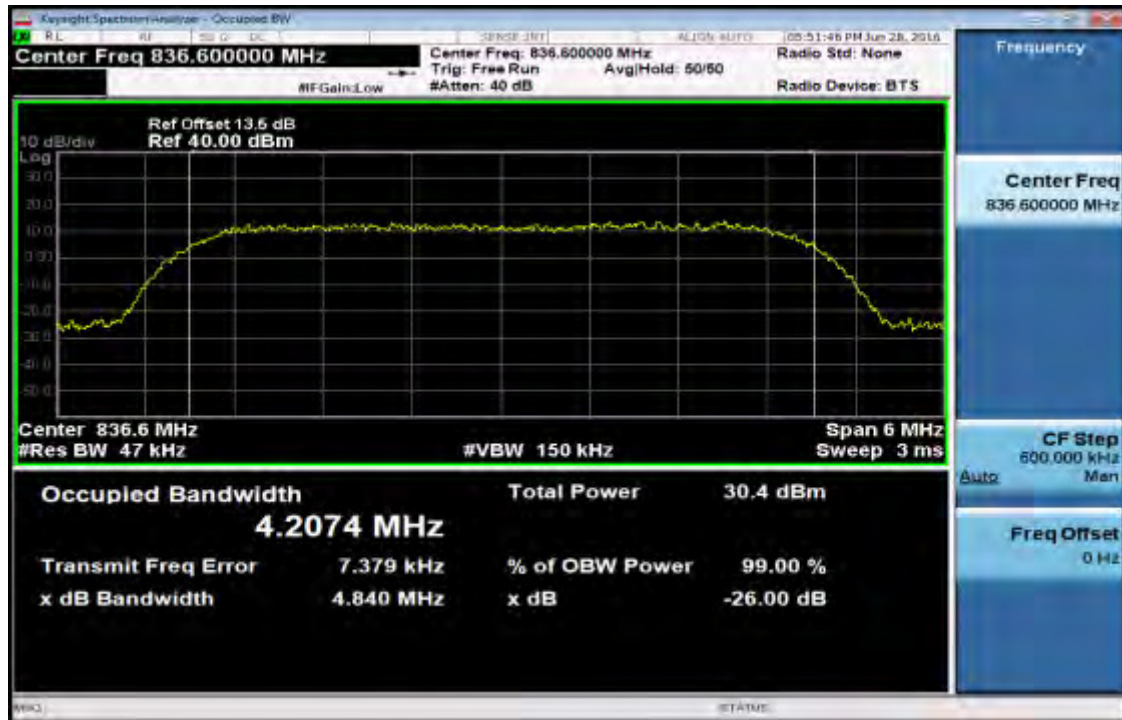
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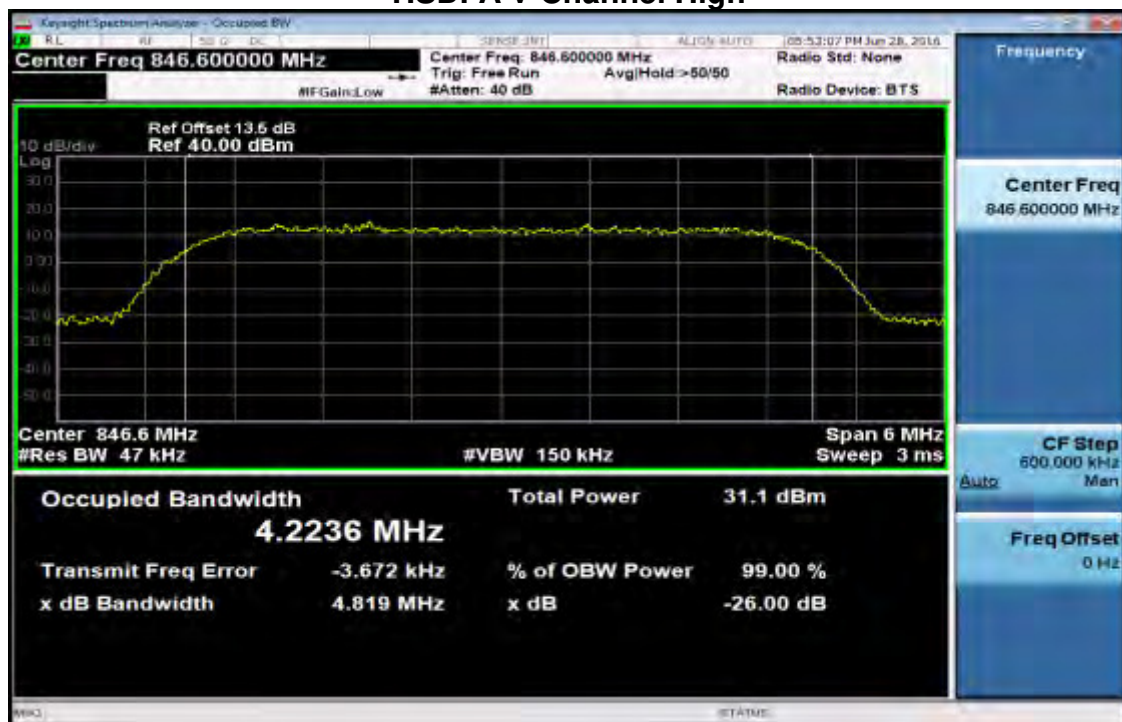
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HSDPA V Channel Mid



HSDPA V Channel High



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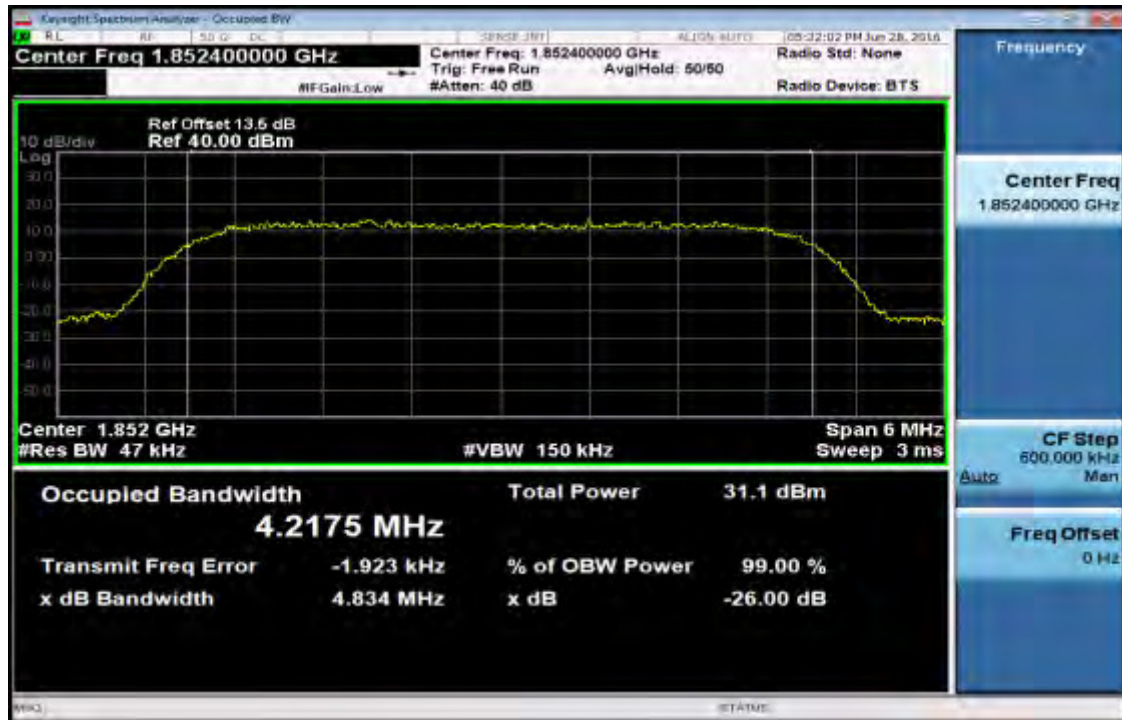
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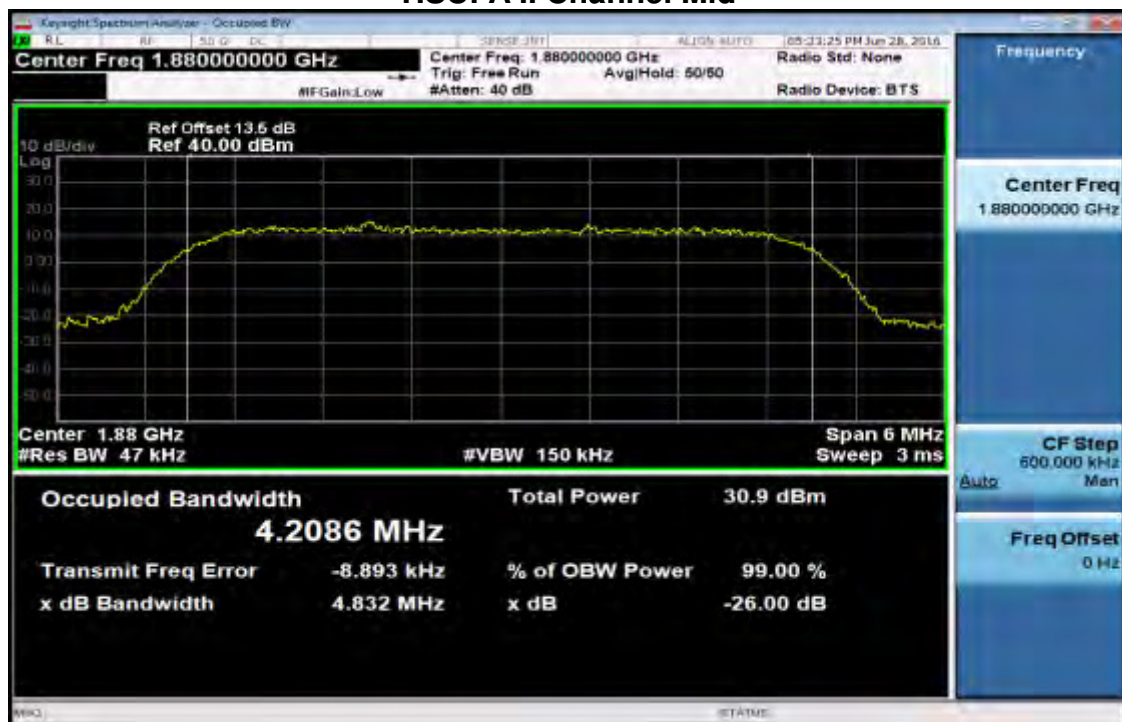
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HSUPA II Channel Low



HSUPA II Channel Mid



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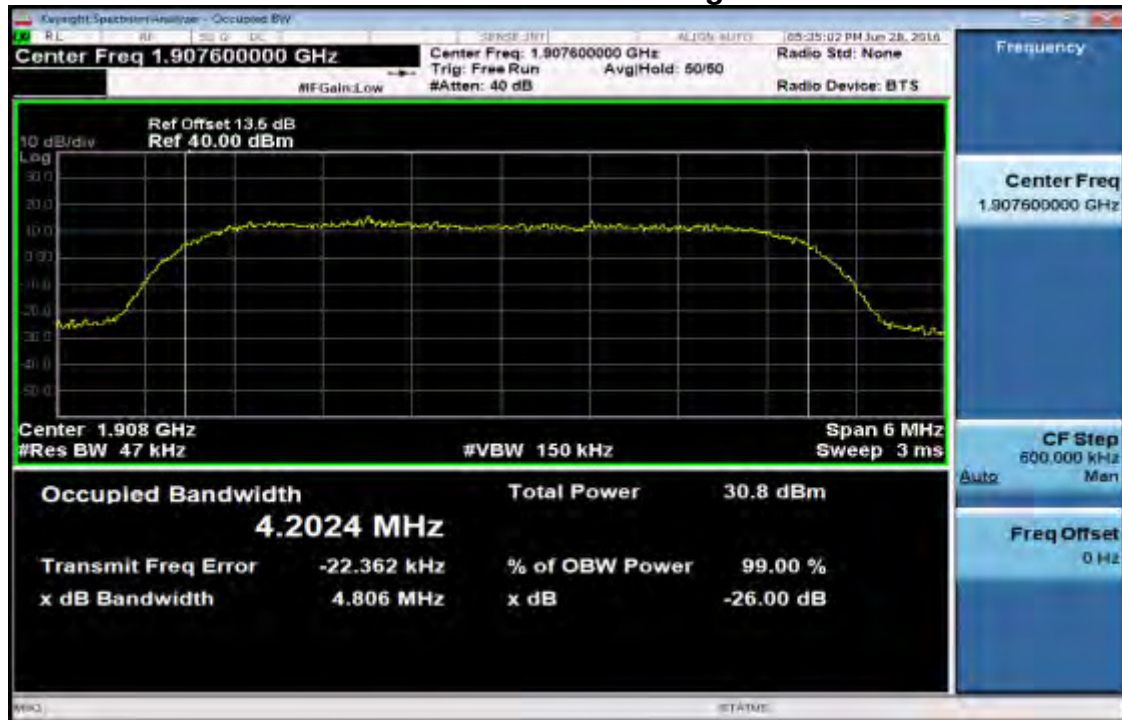
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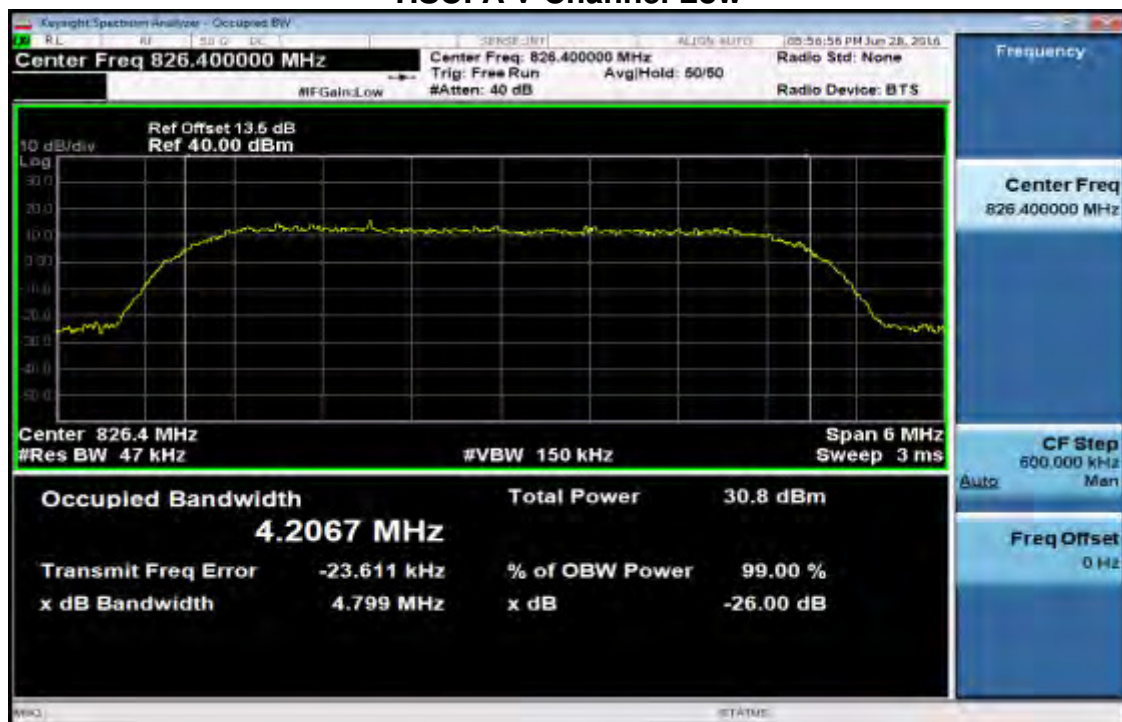
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HSUPA II Channel High



HSUPA V Channel Low



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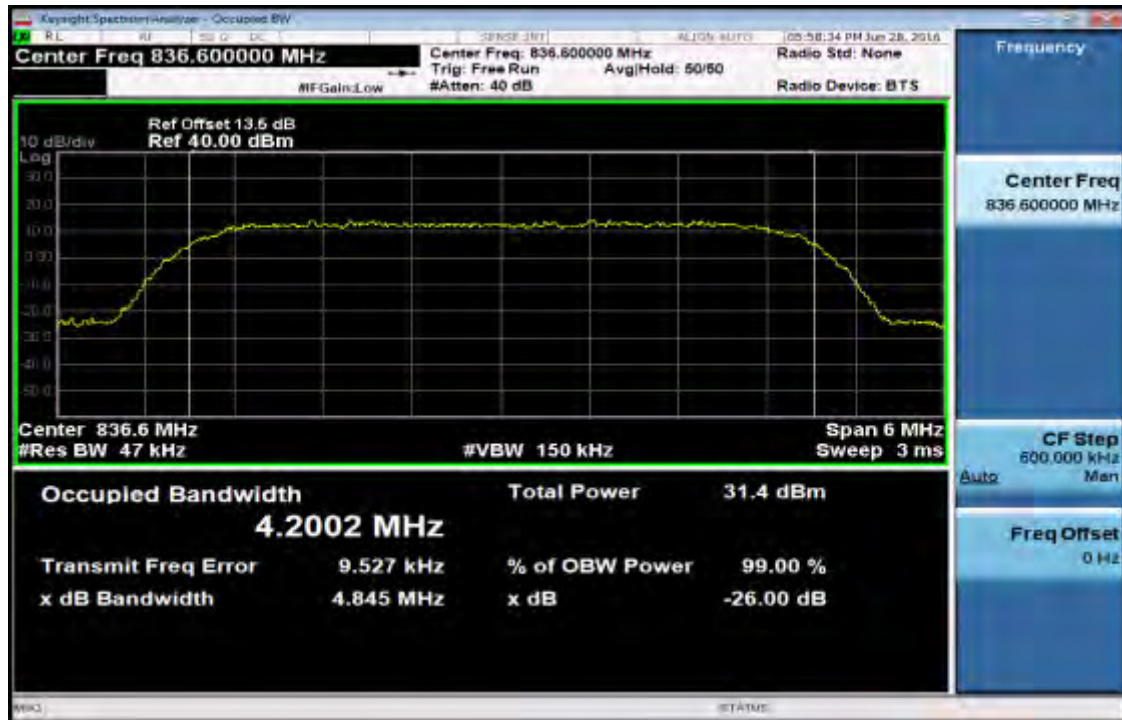
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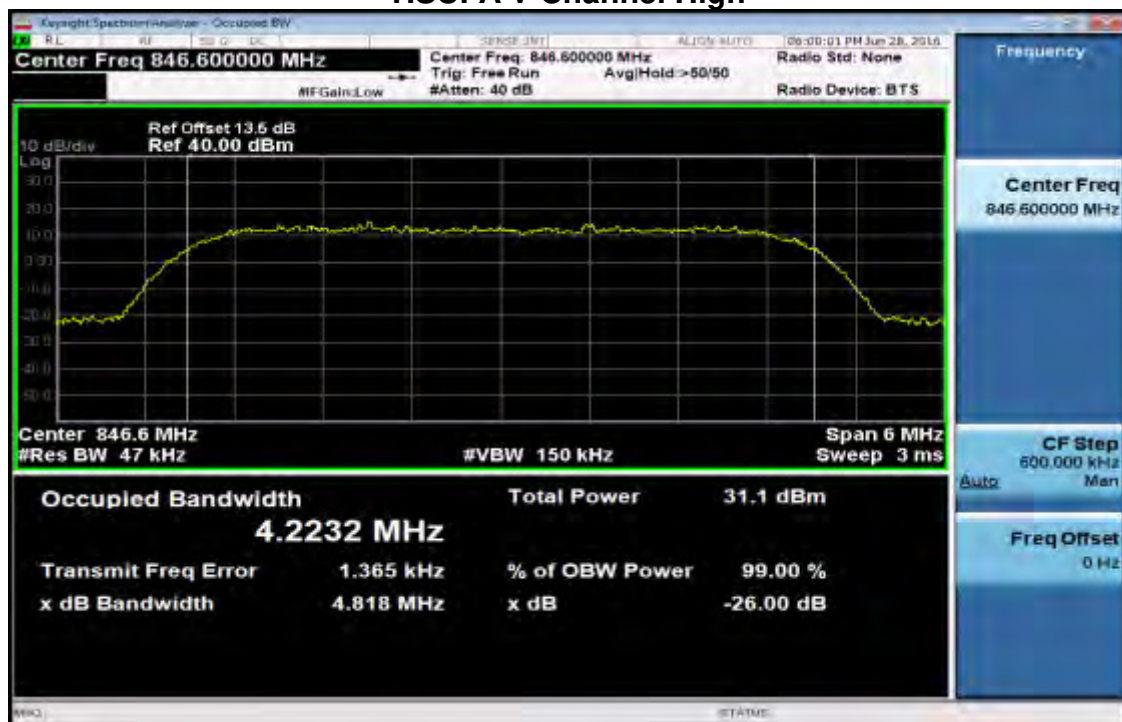
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HSUPA V Channel Mid



HSUPA V Channel High



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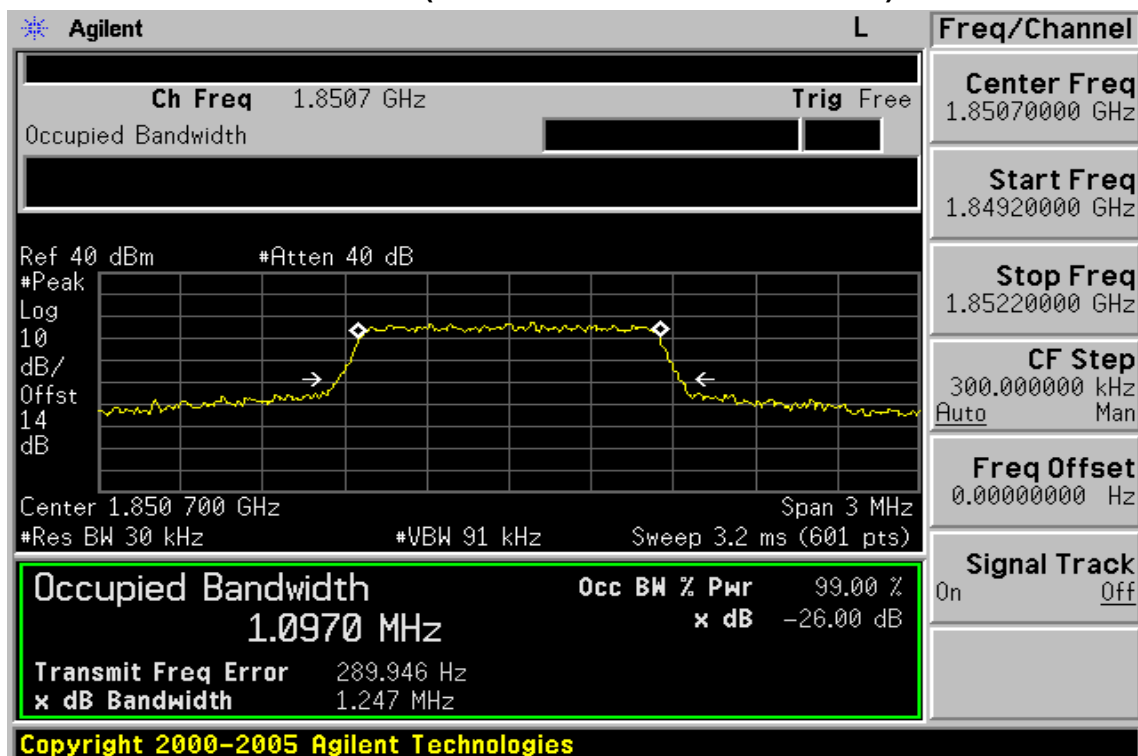
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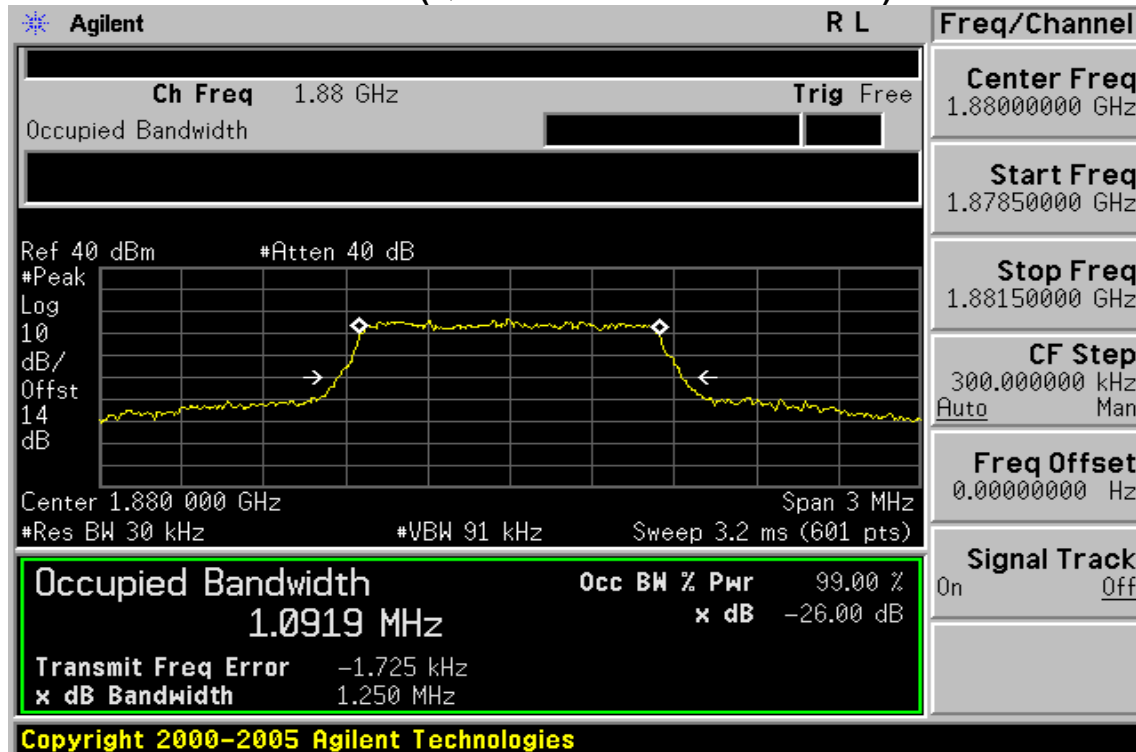
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1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Low



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



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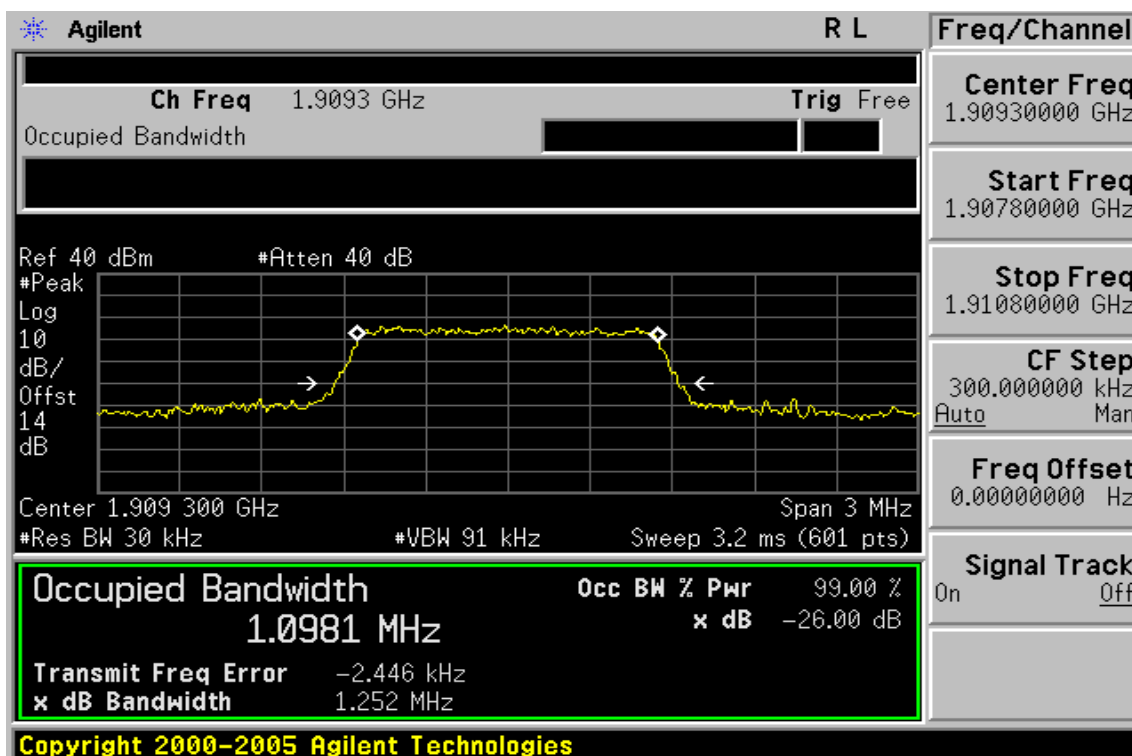
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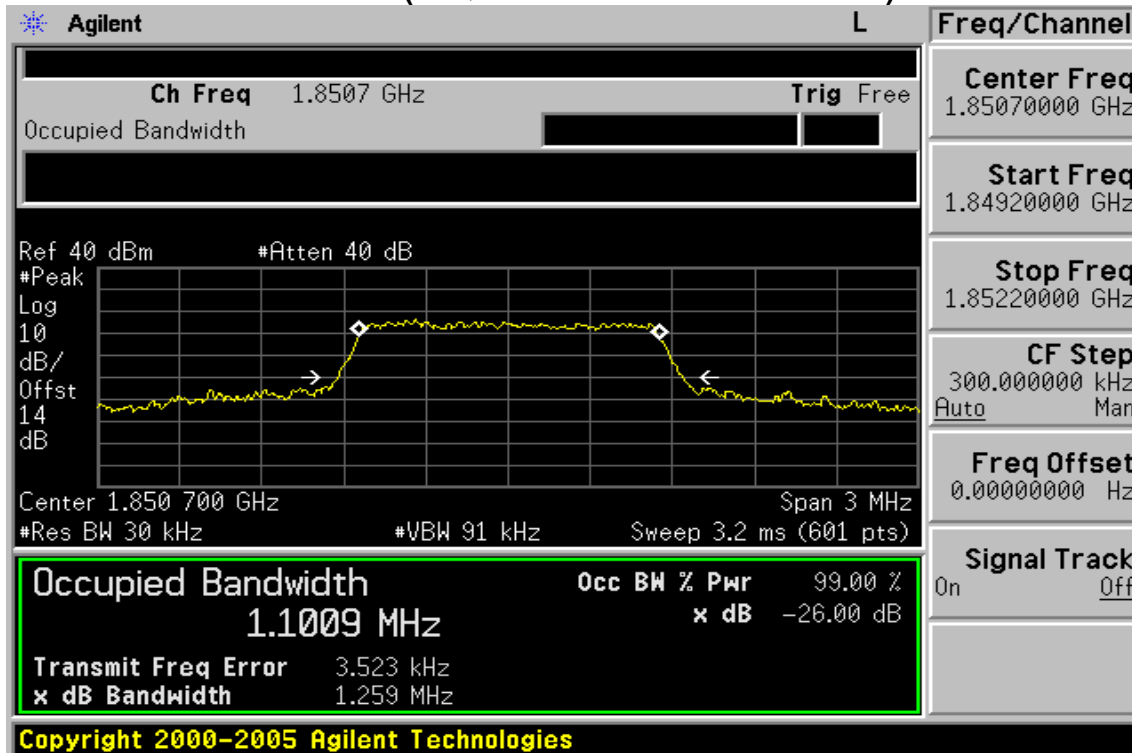
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1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel High



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



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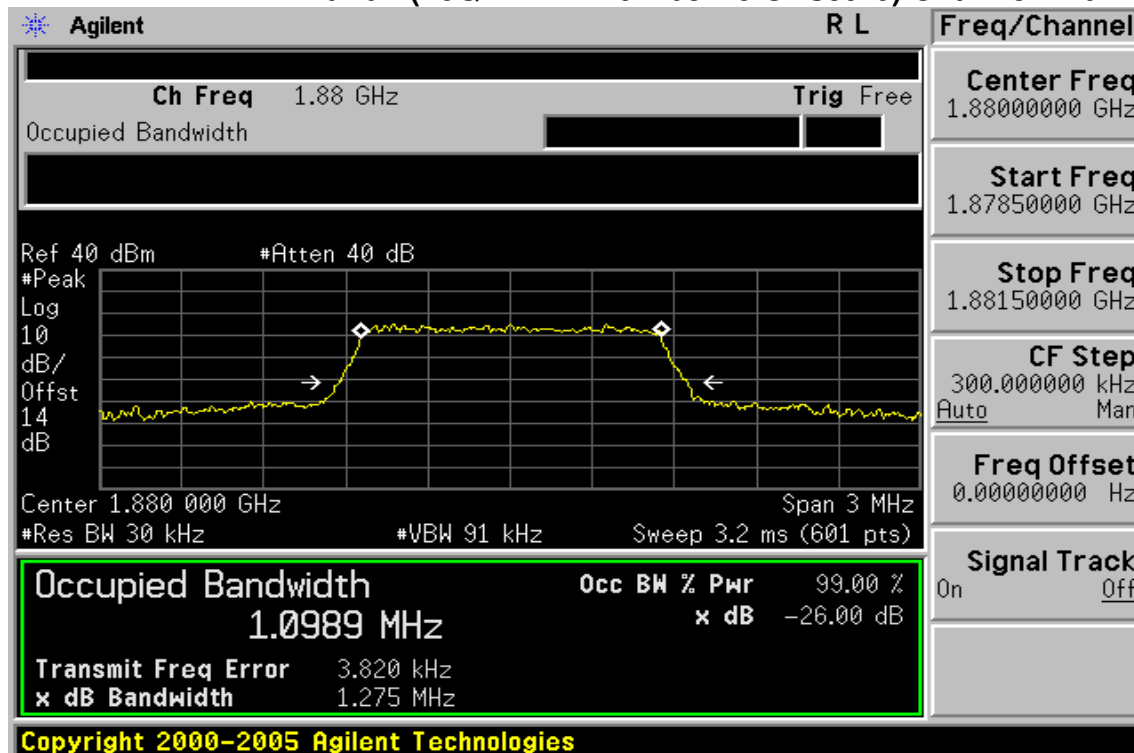
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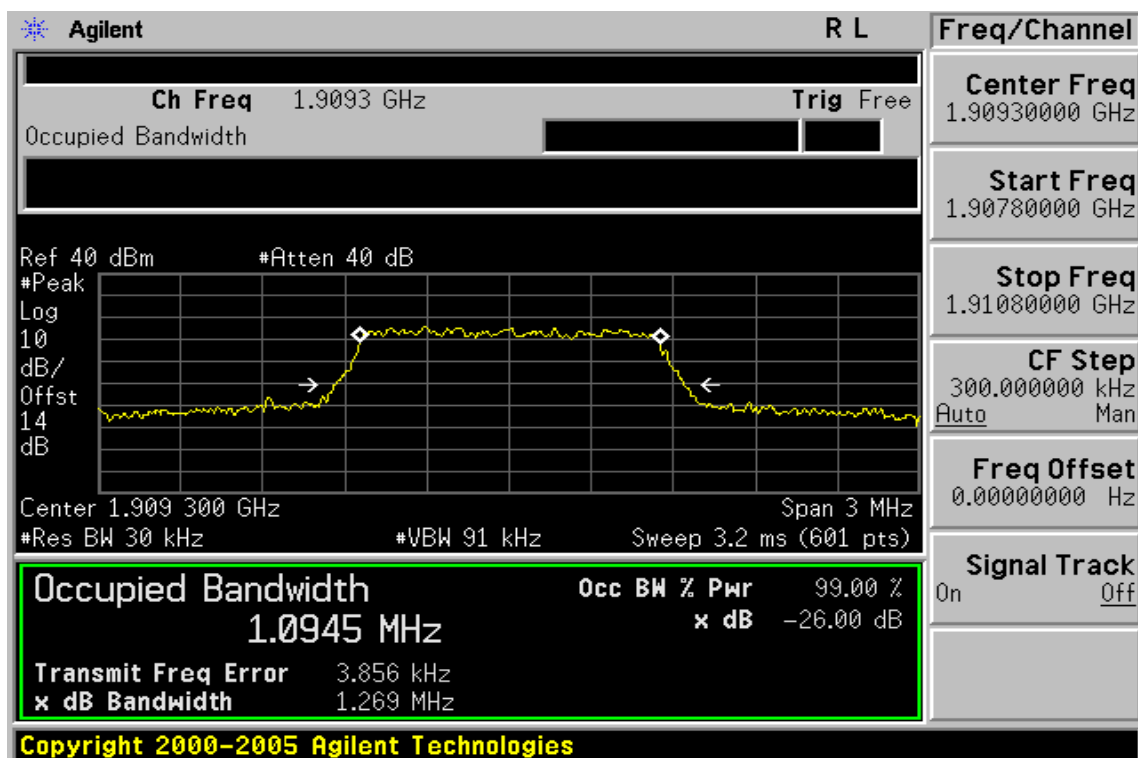
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1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Mid



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



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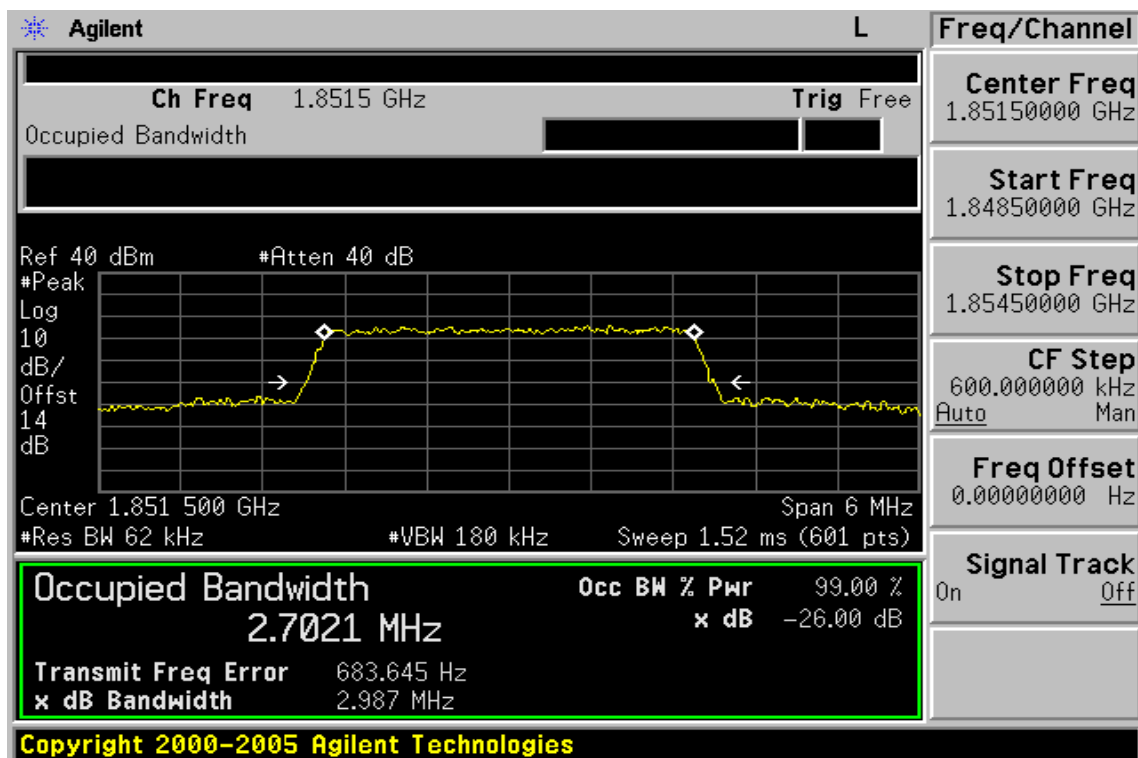
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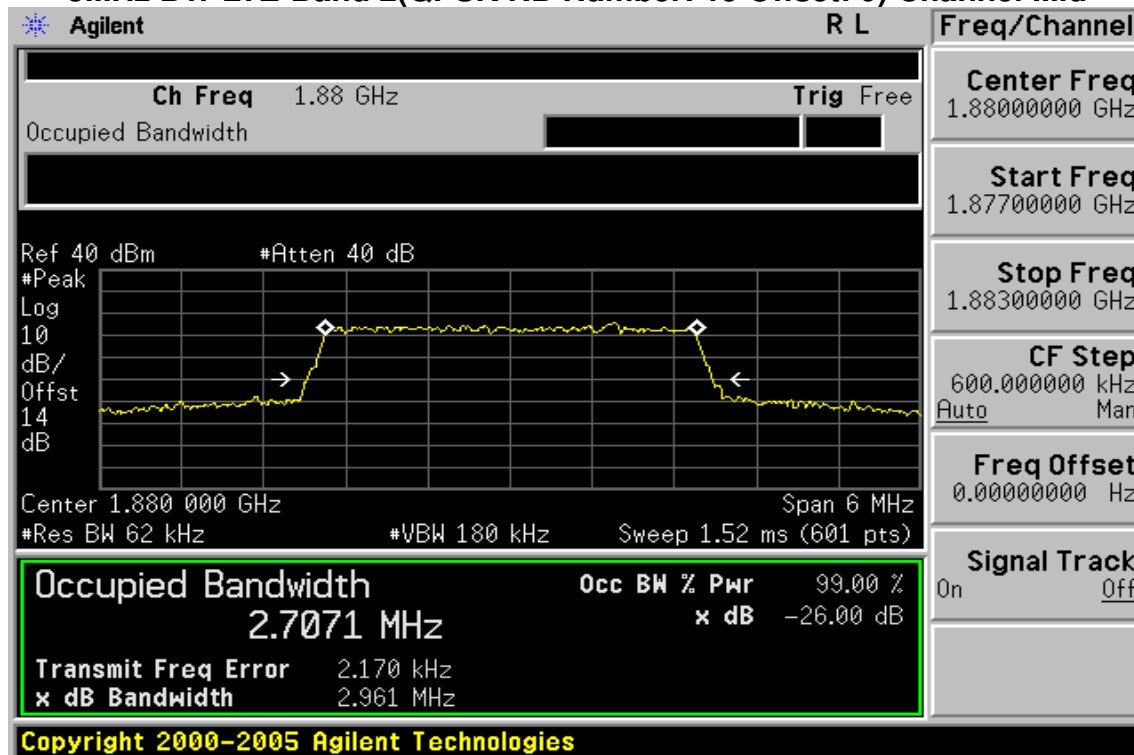
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3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Low



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



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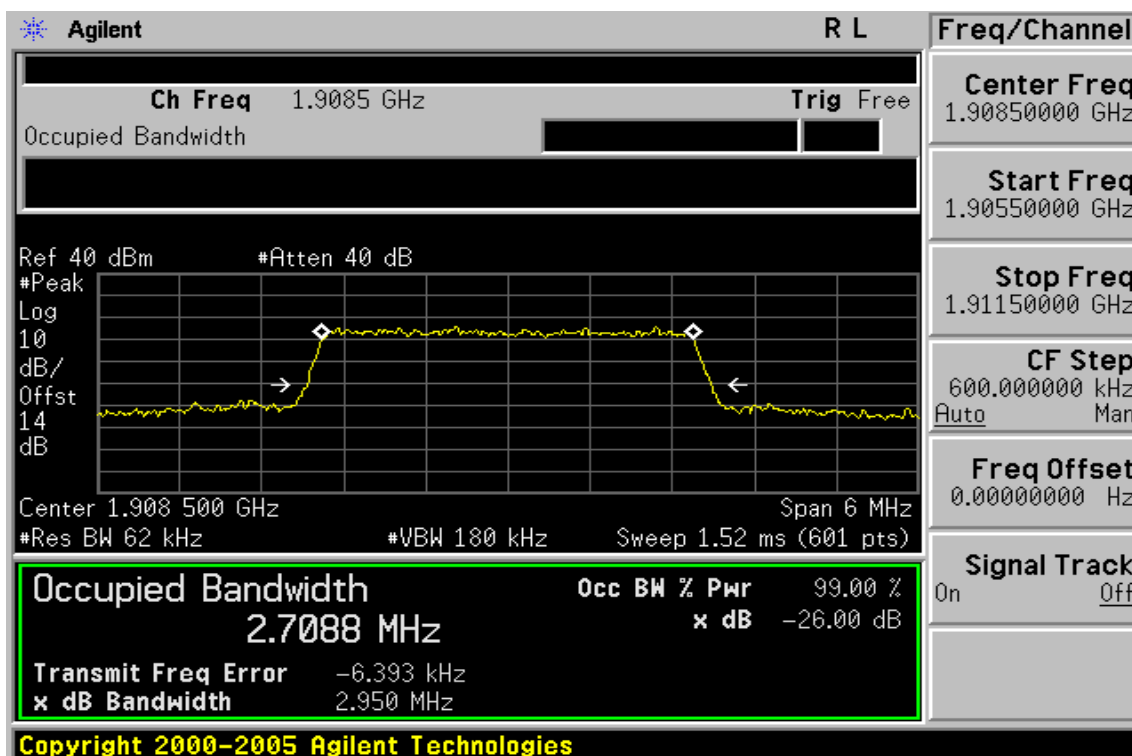
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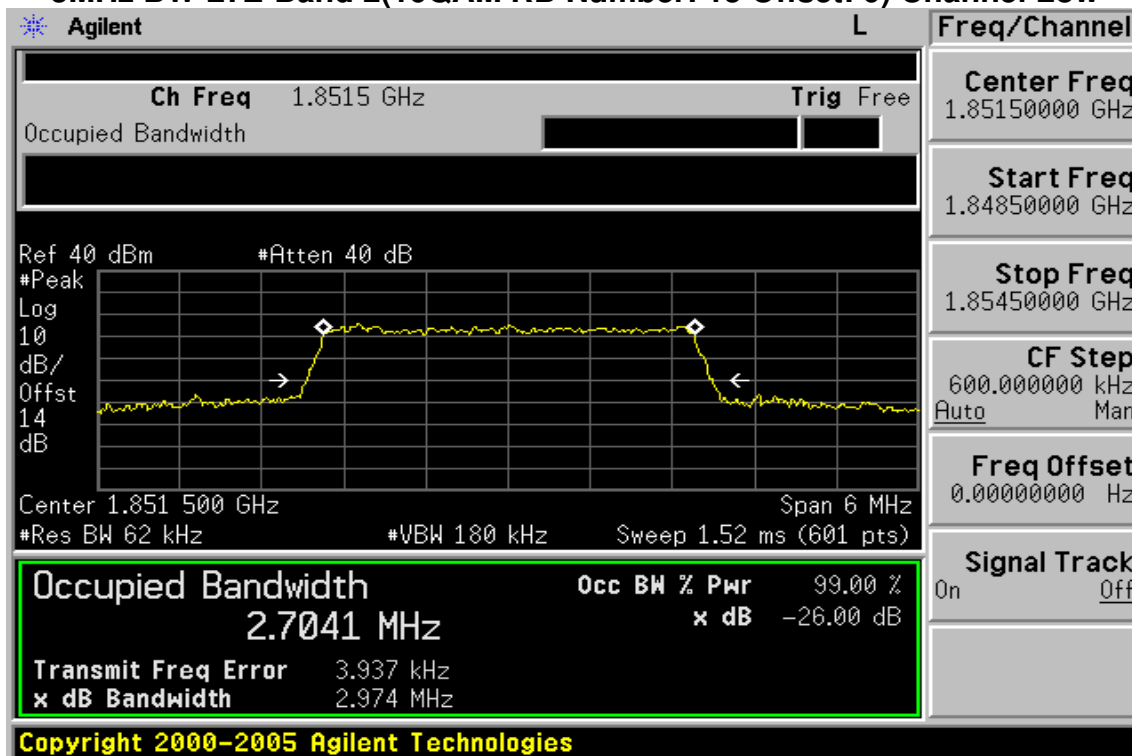
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3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel High



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



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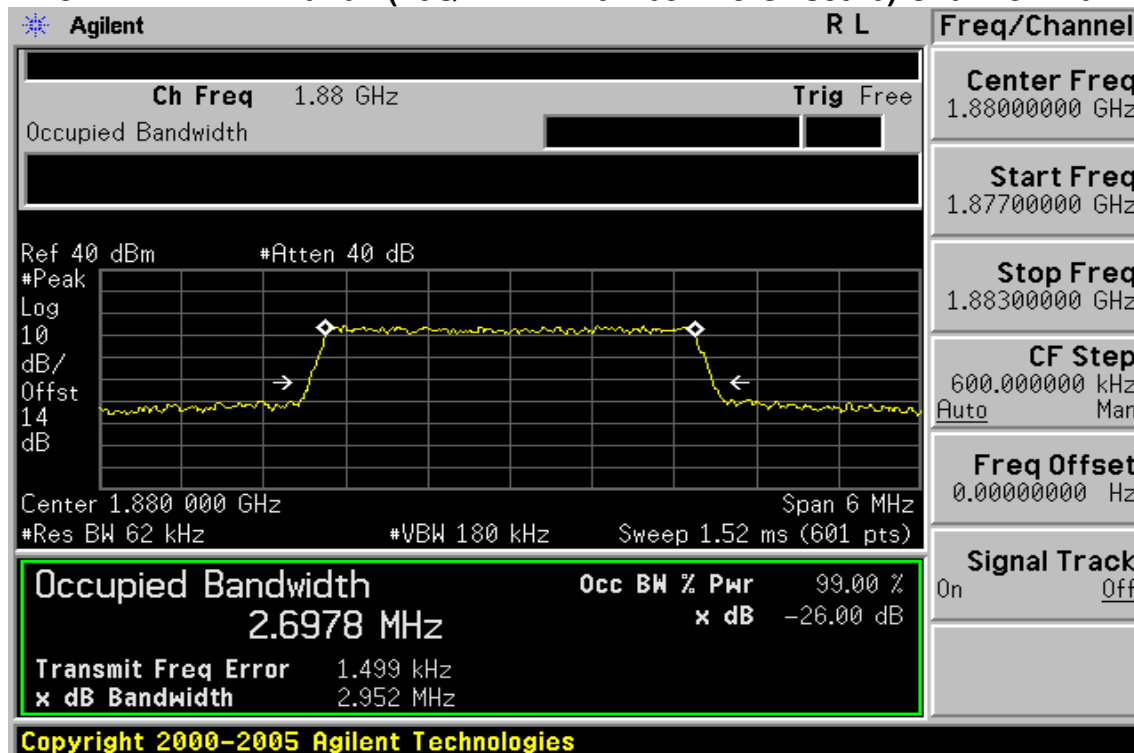
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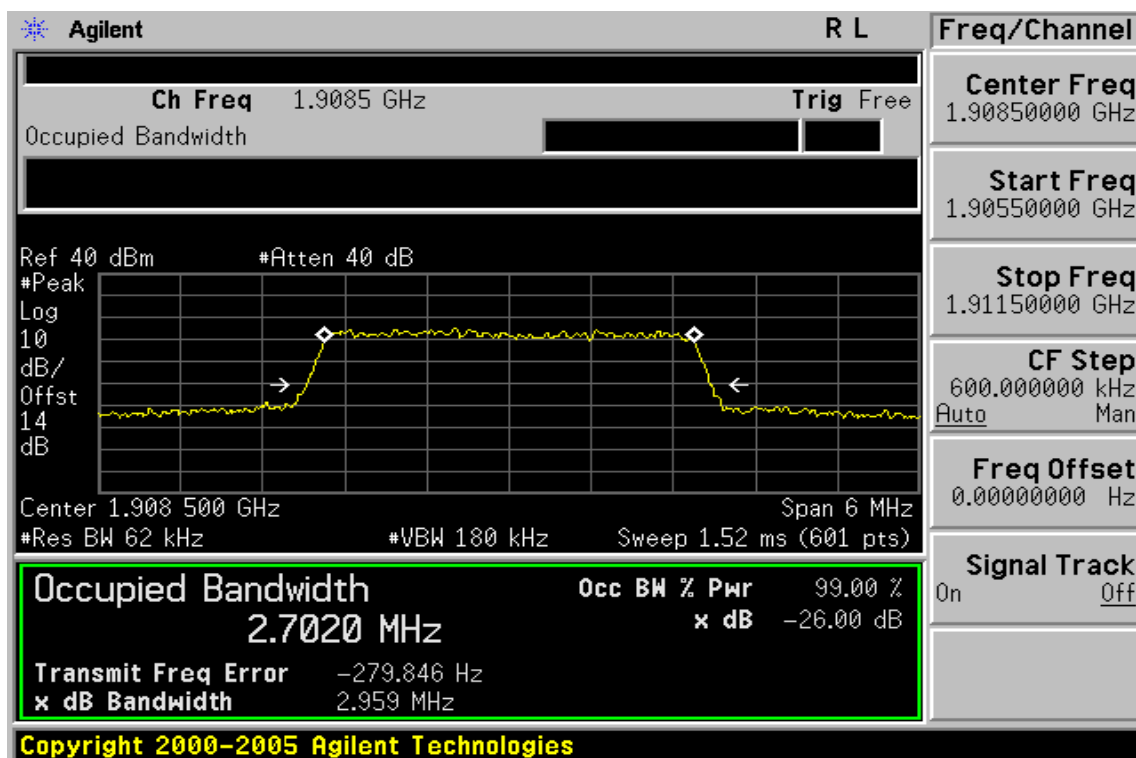
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3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Mid



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



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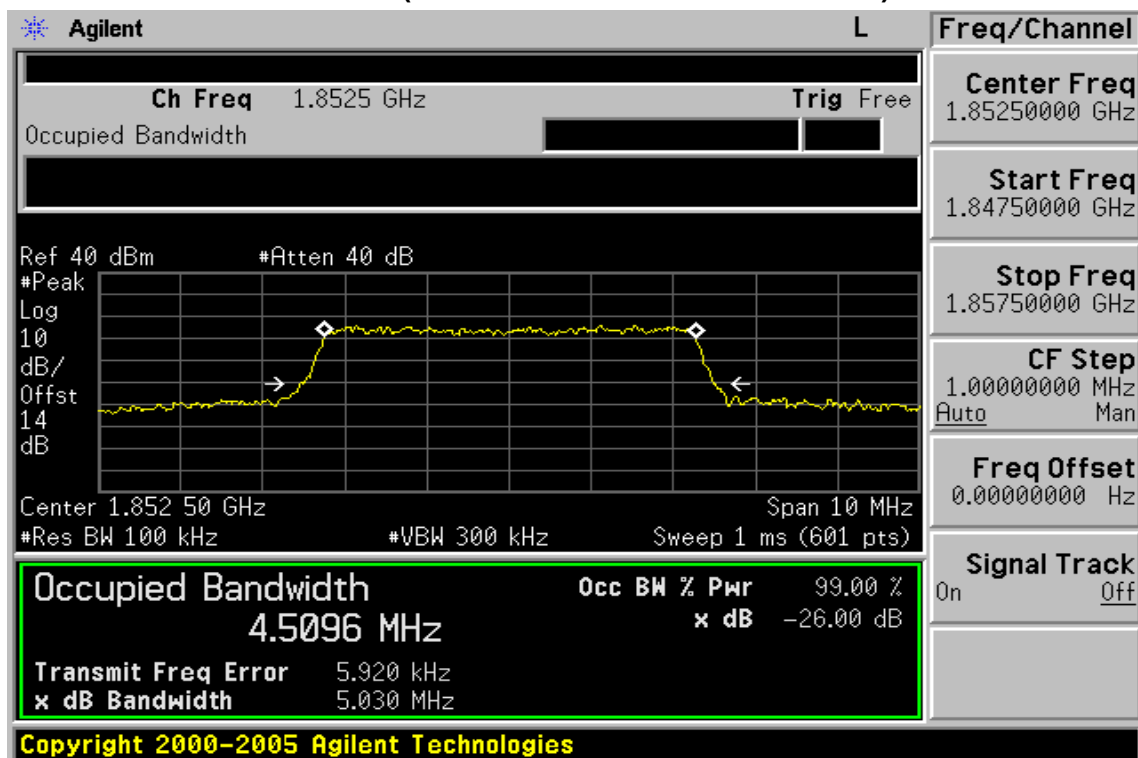
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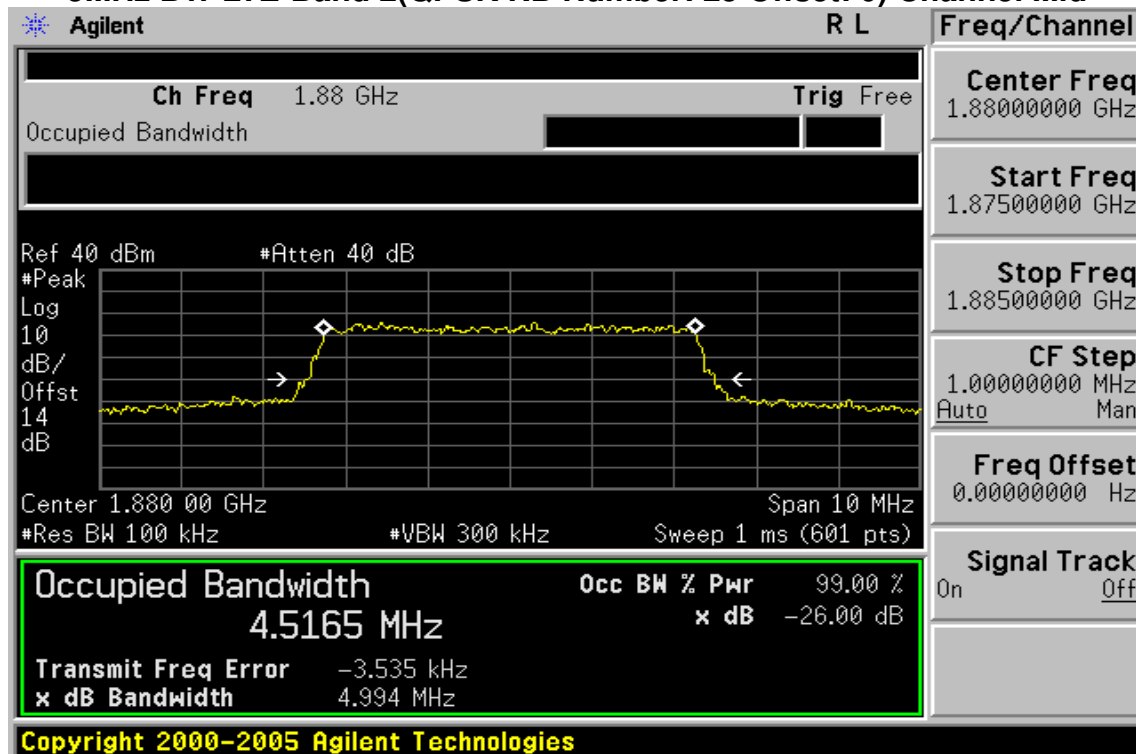
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5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Low



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



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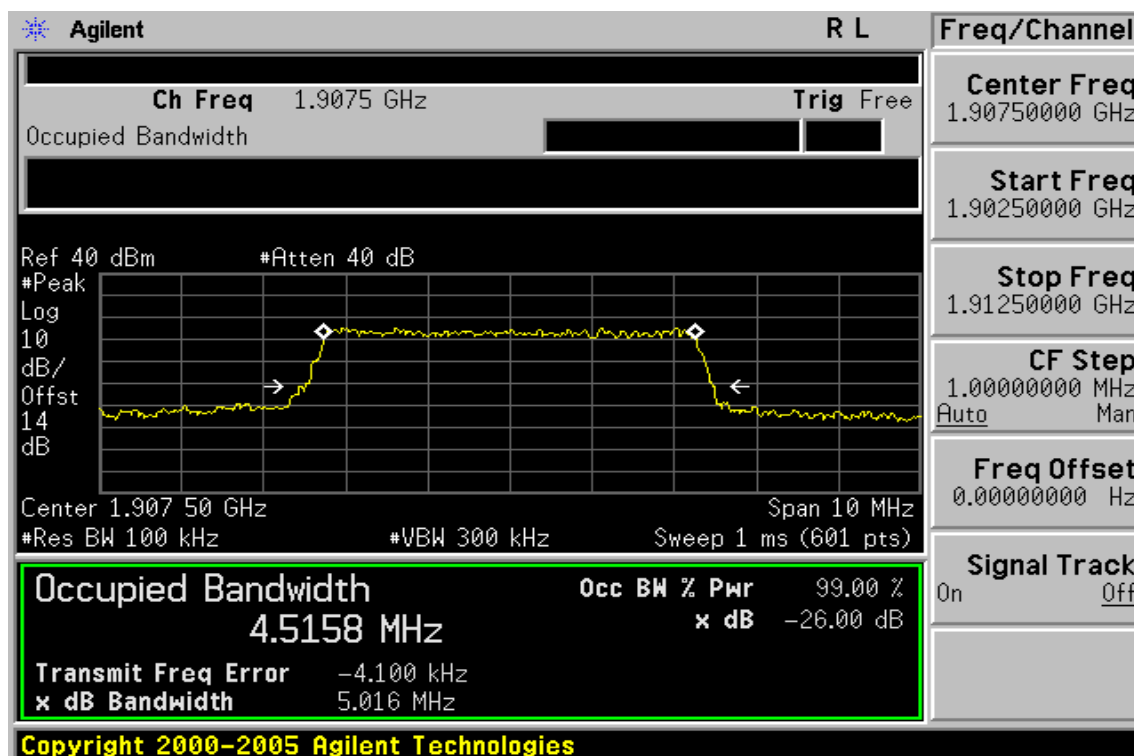
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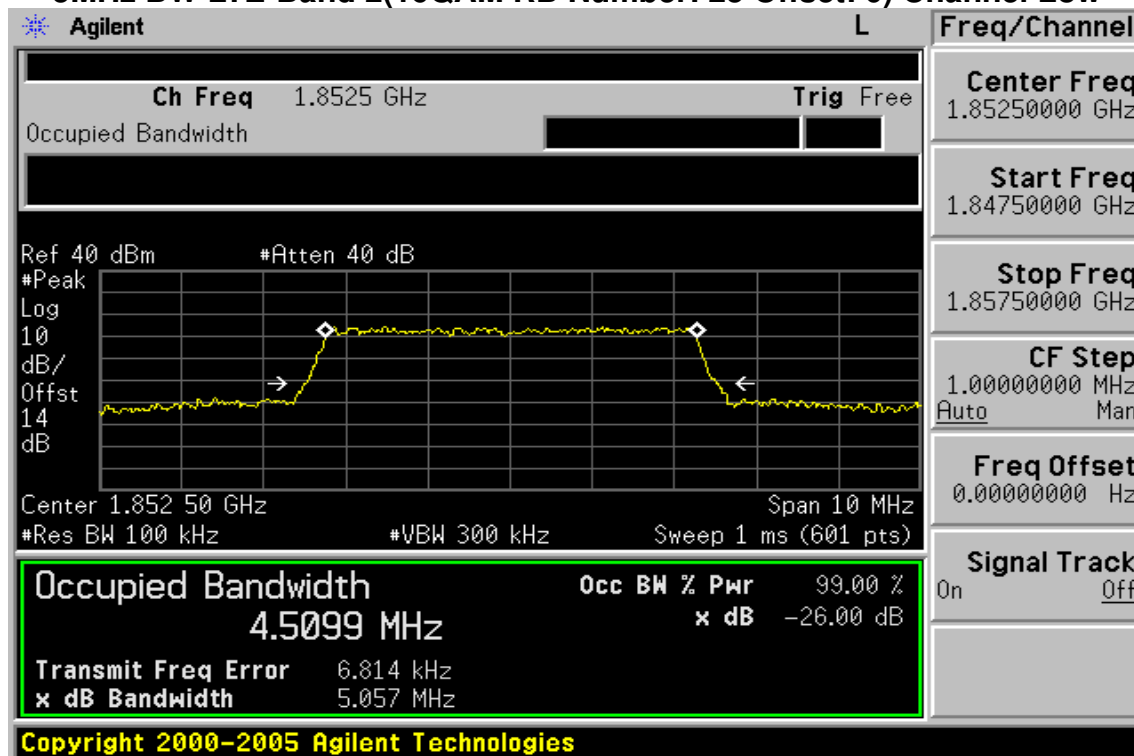
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5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel High



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



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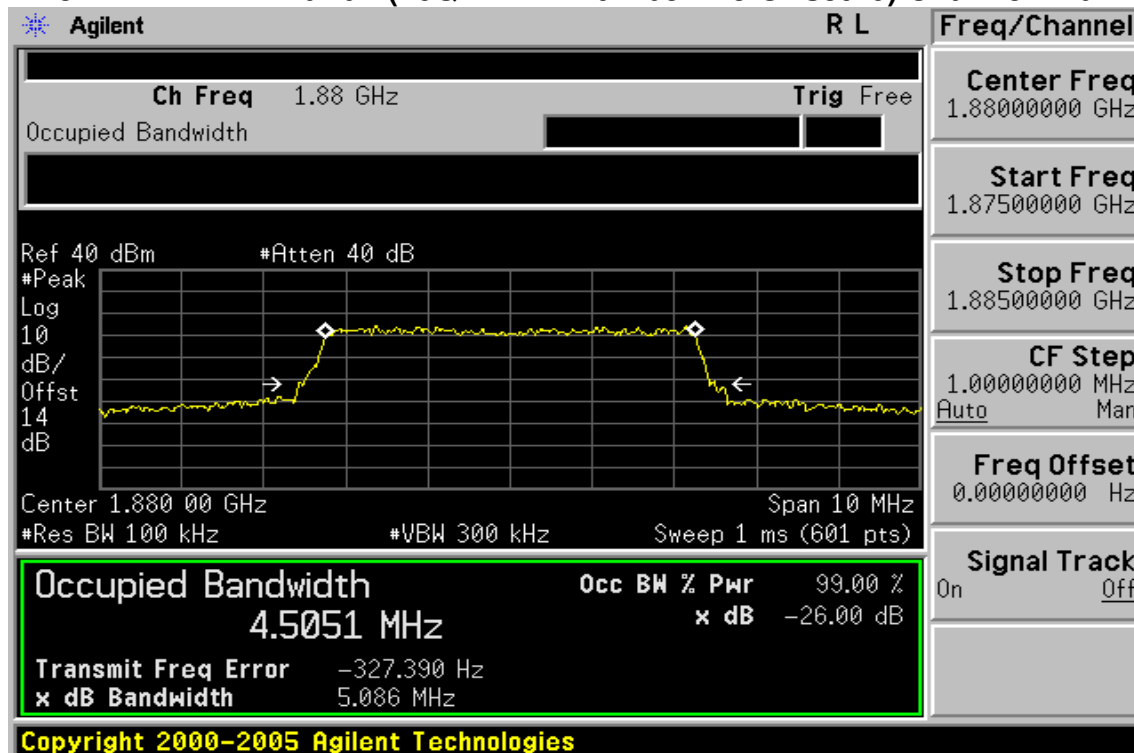
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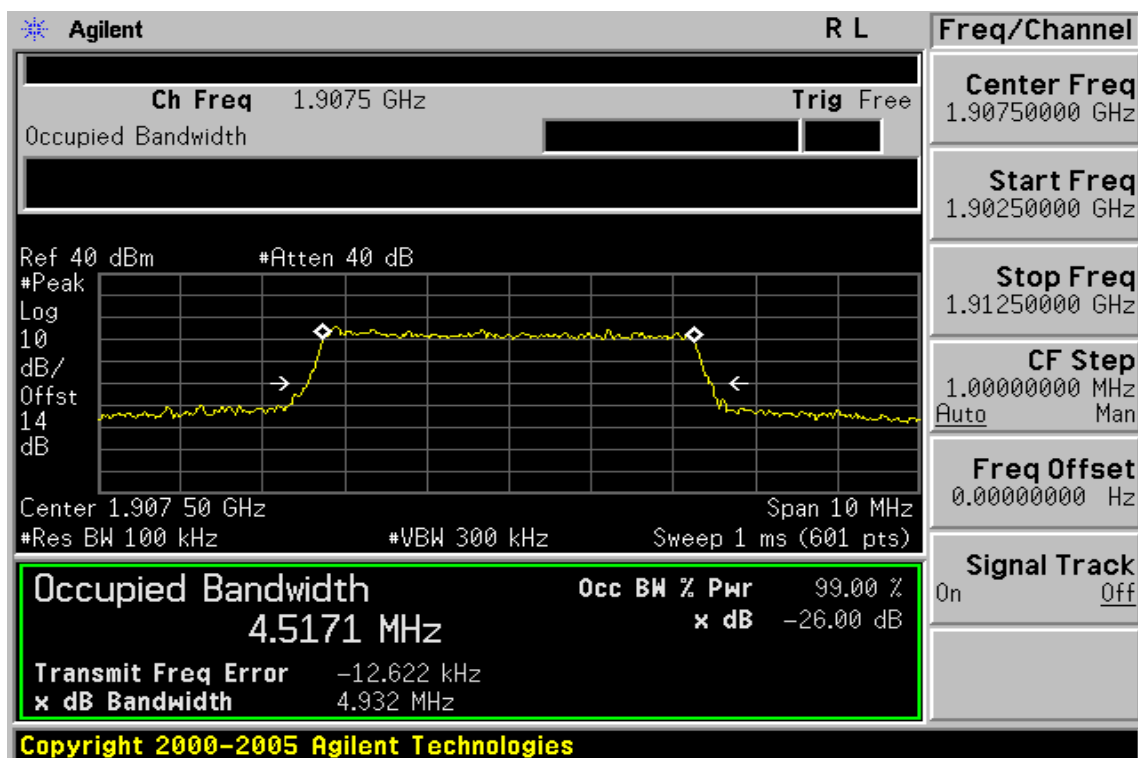
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5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Mid



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



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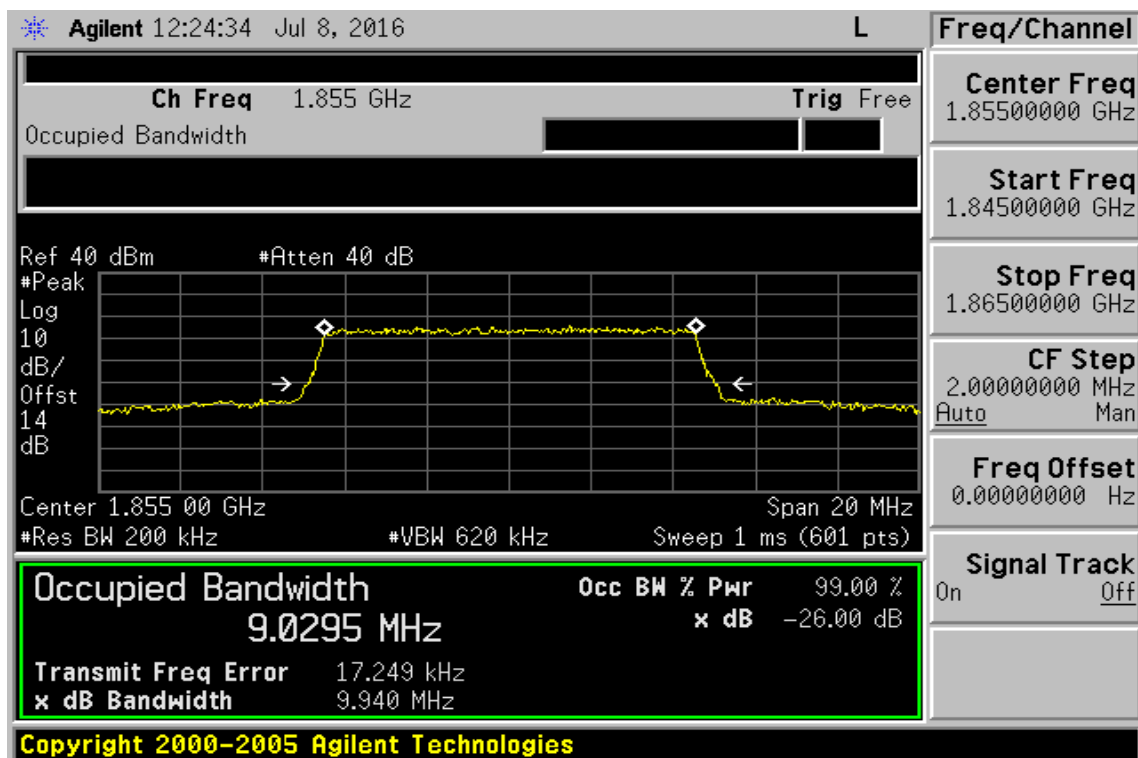
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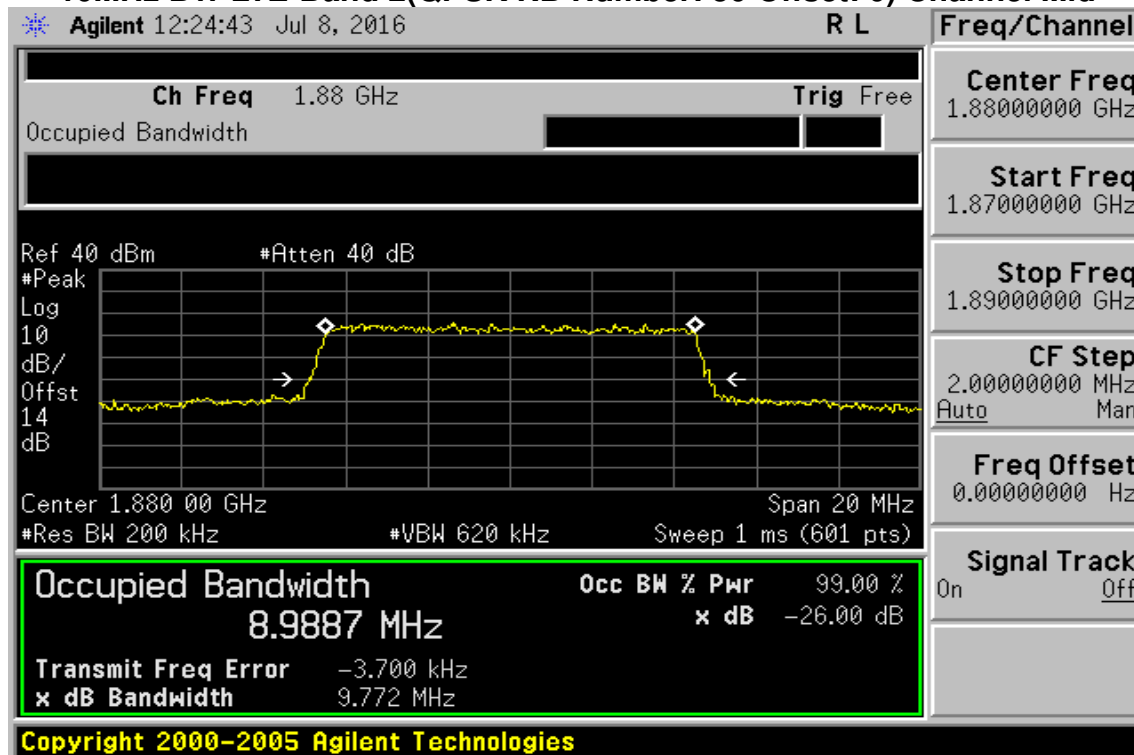
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10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Low



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



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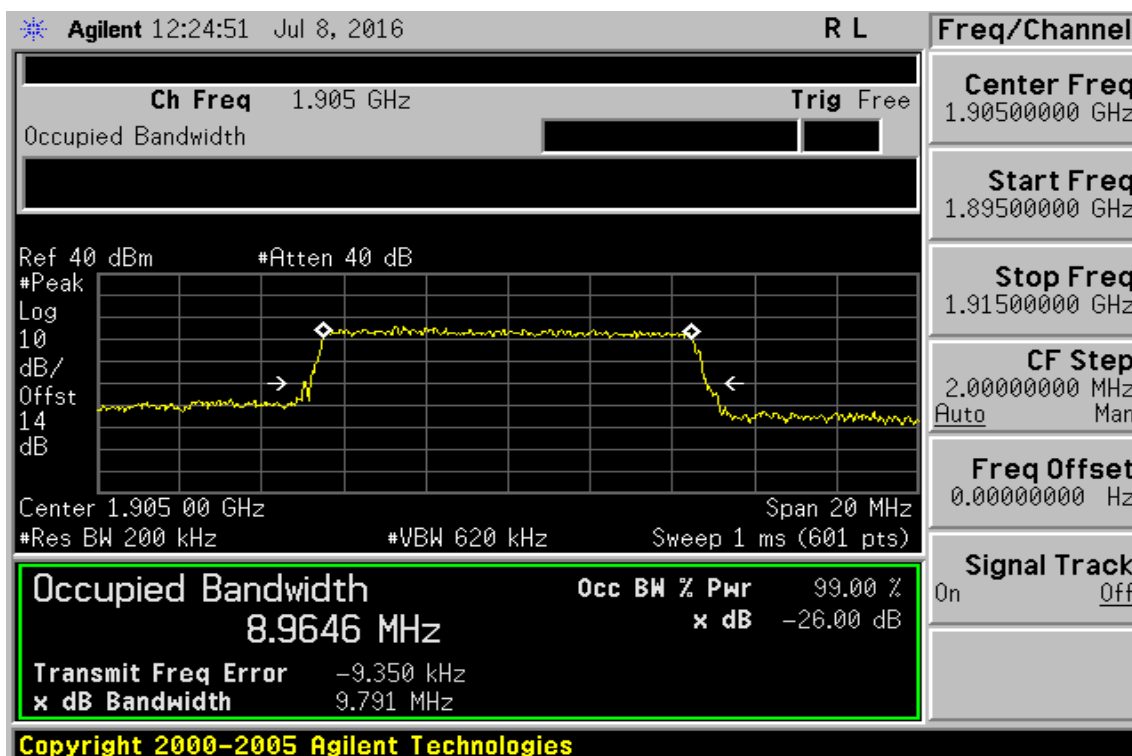
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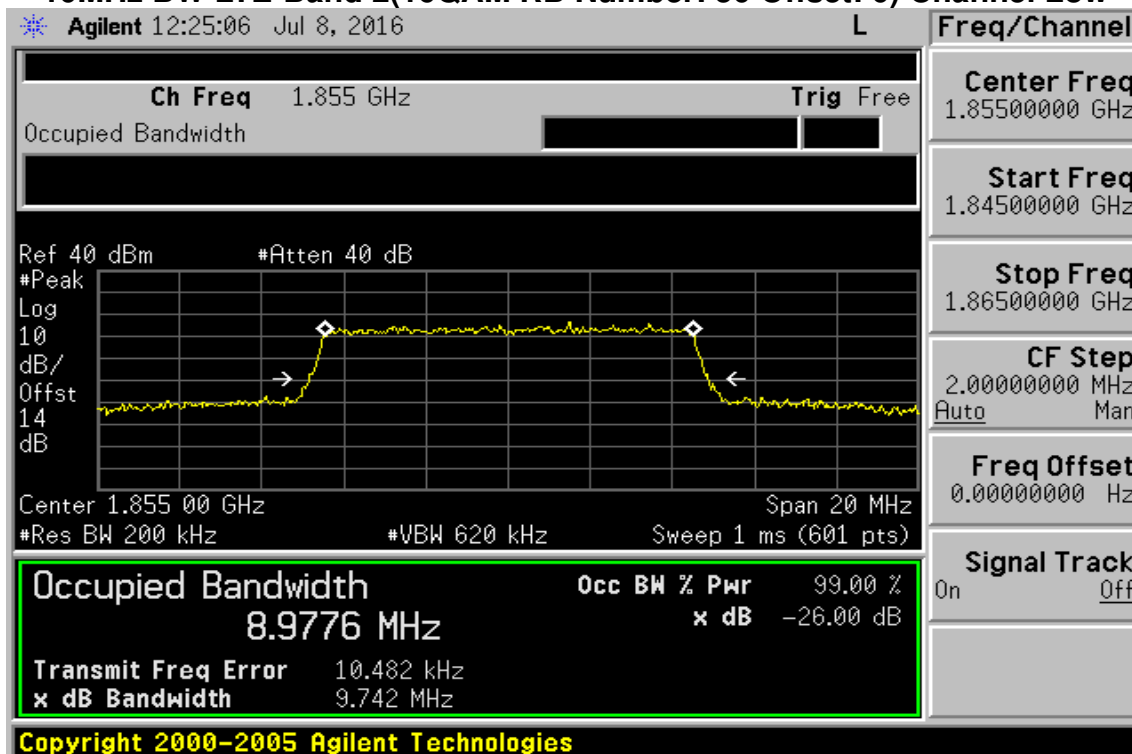
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10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel High



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



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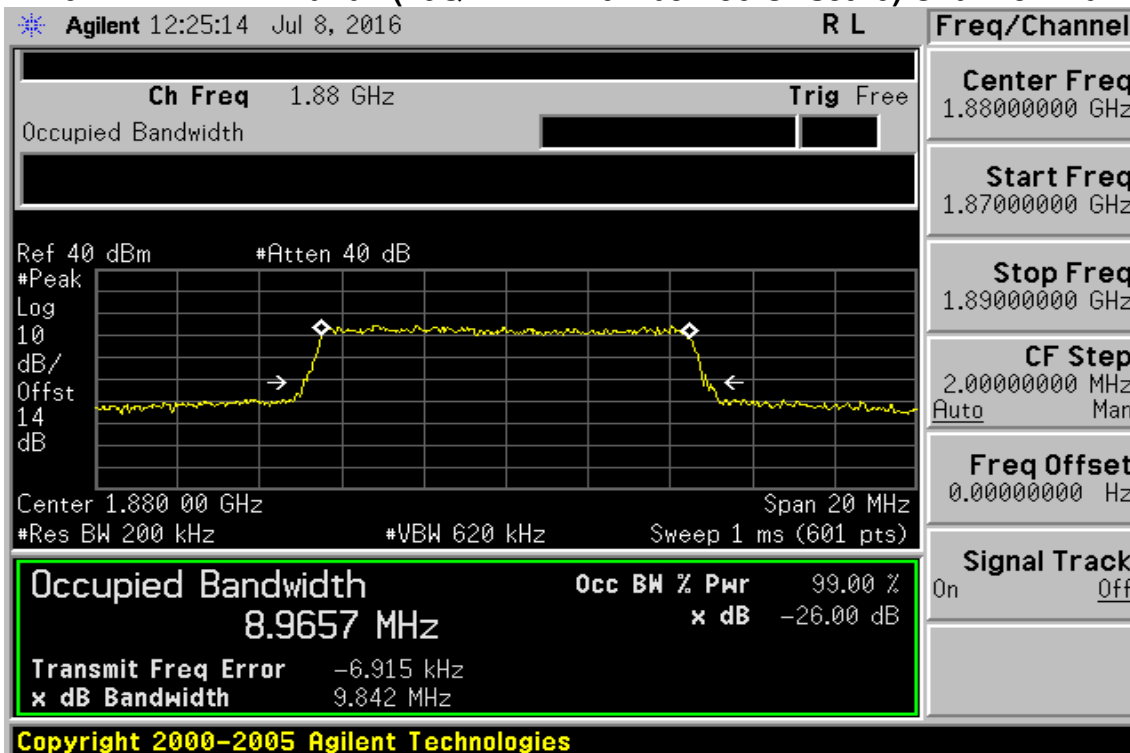
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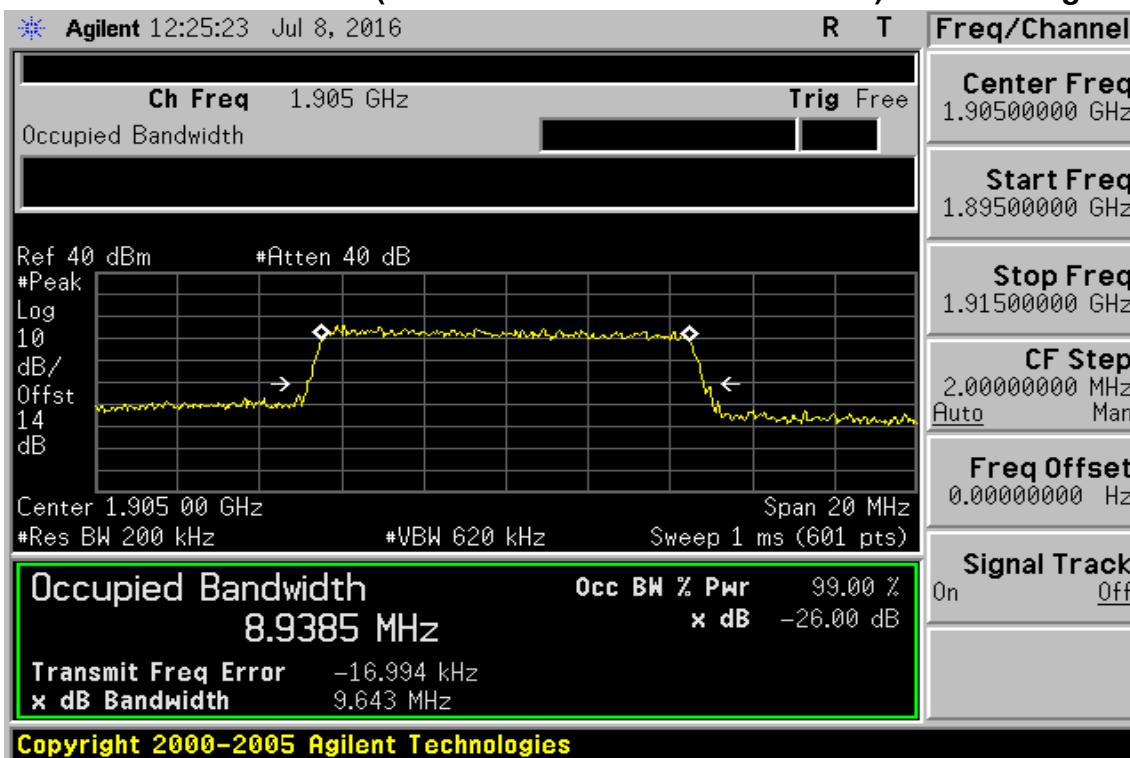
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10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Mid



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



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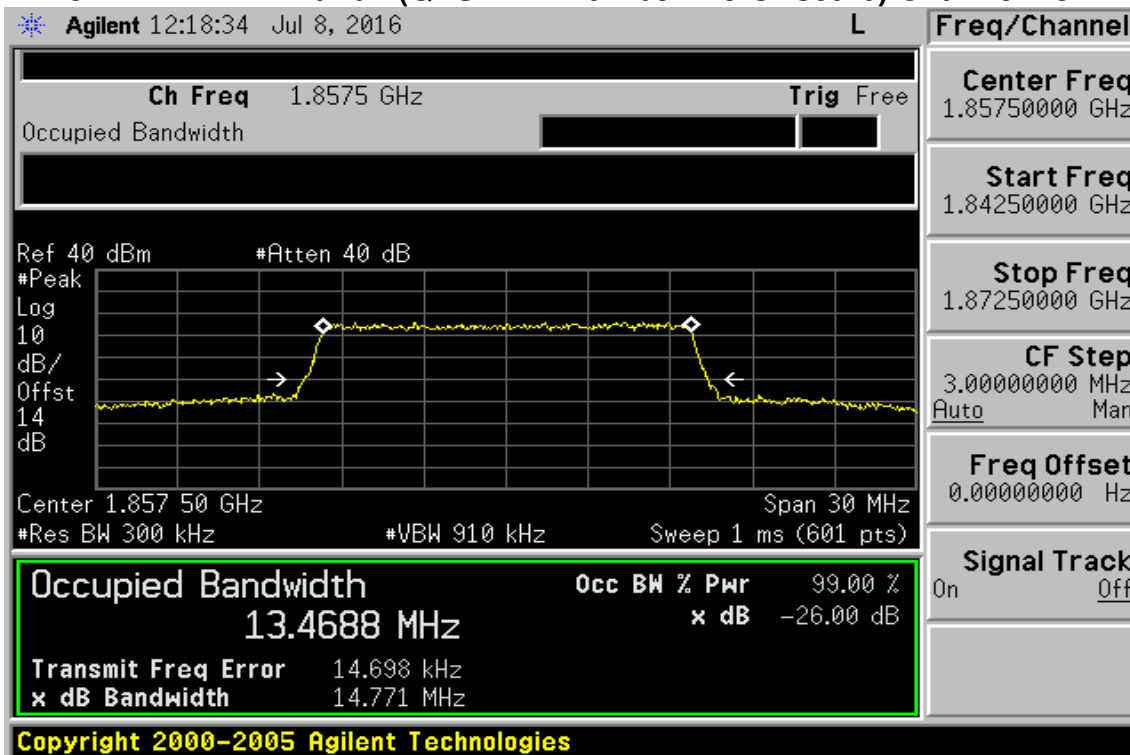
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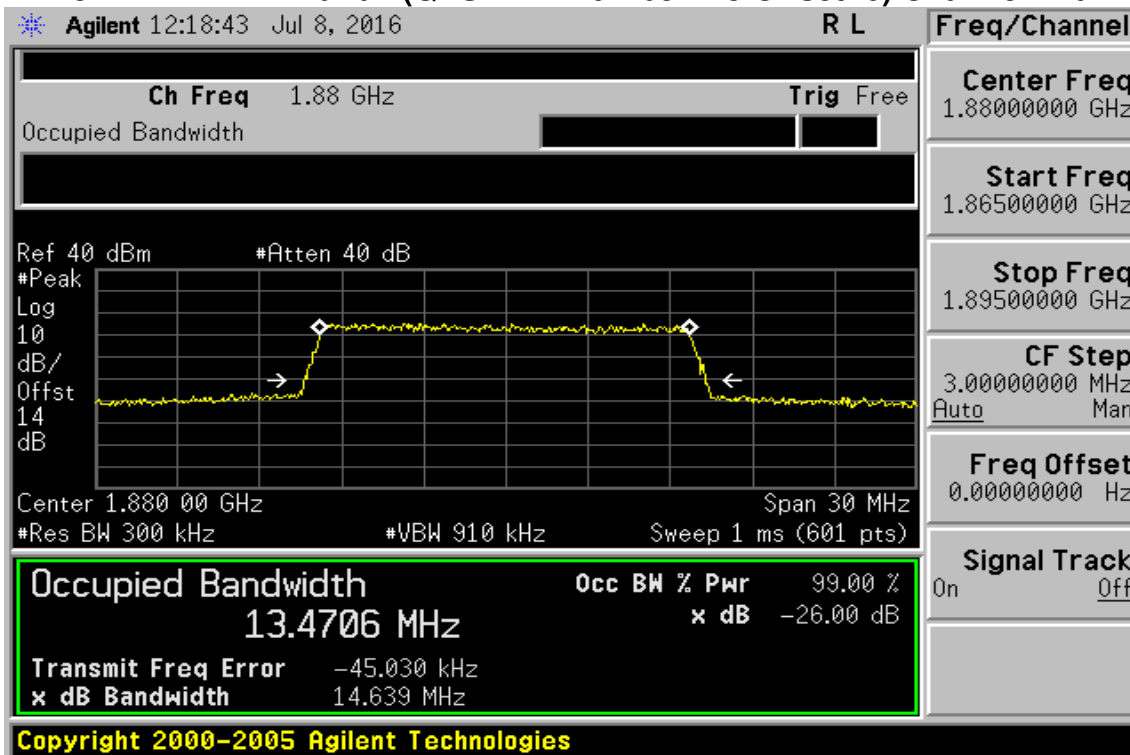
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15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Low



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



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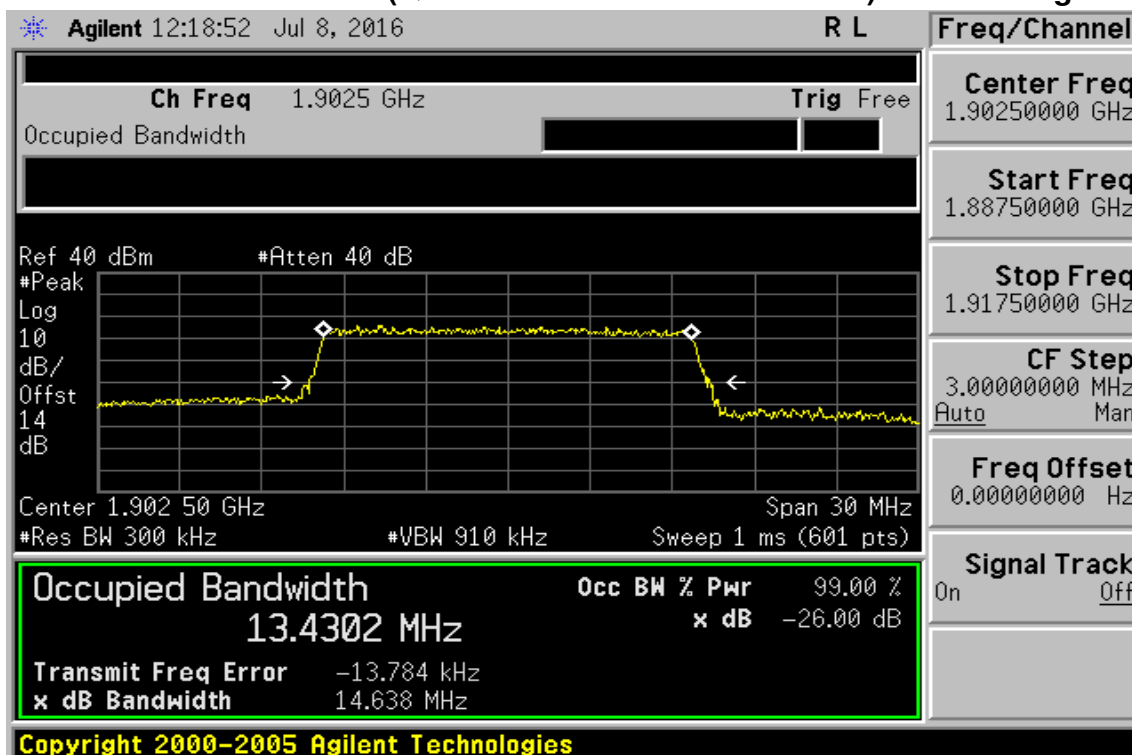
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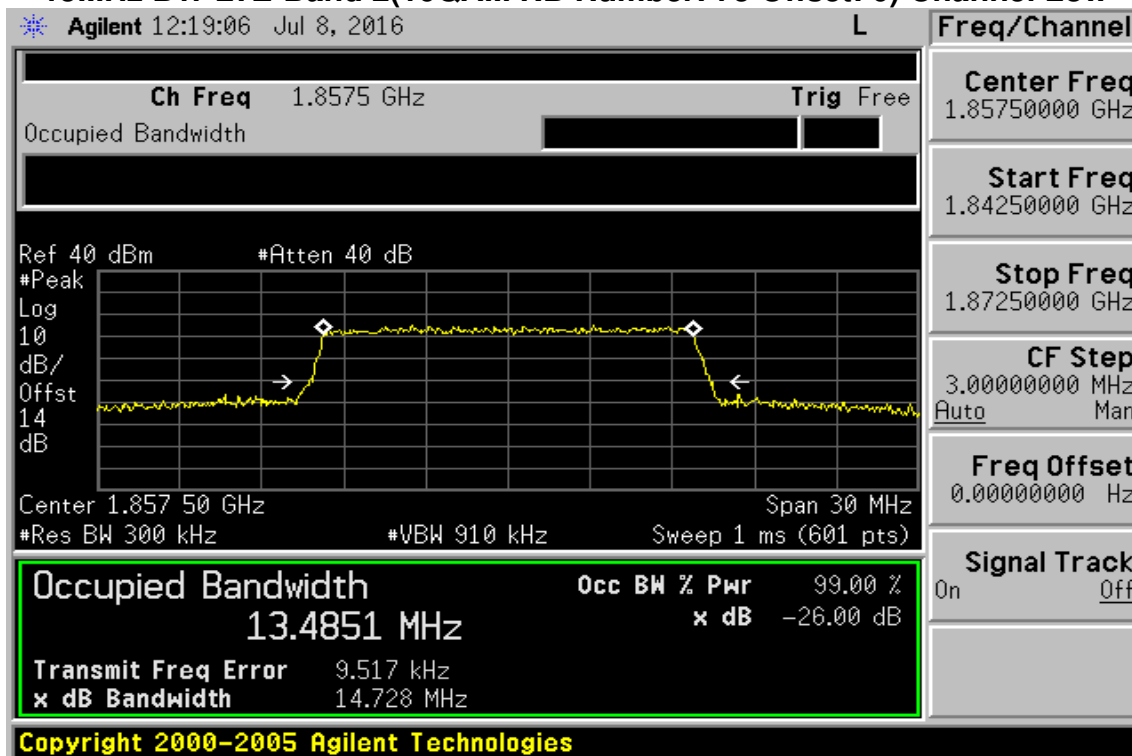
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15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel High



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



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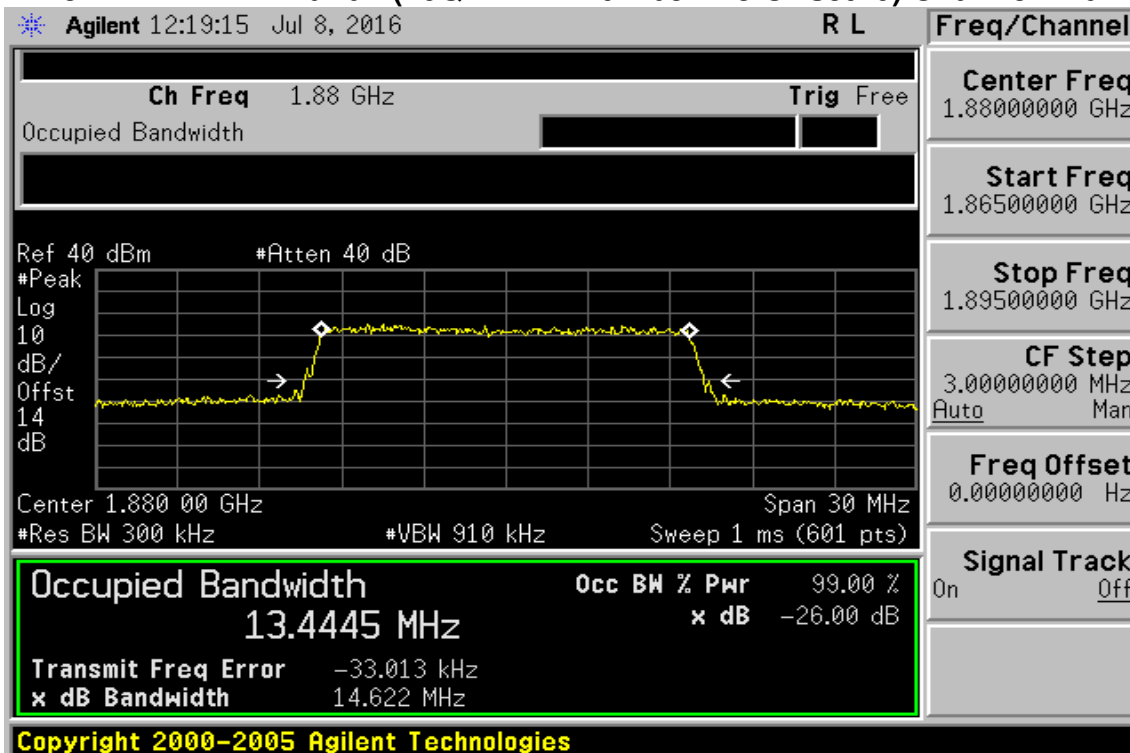
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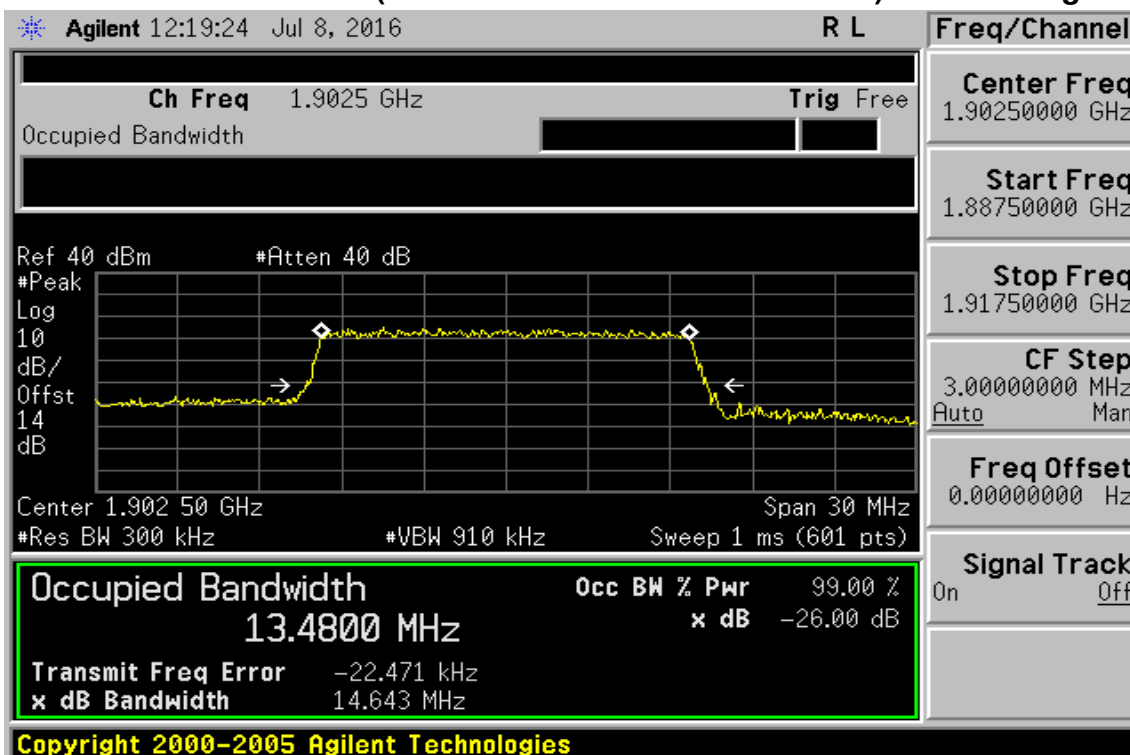
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15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Mid



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



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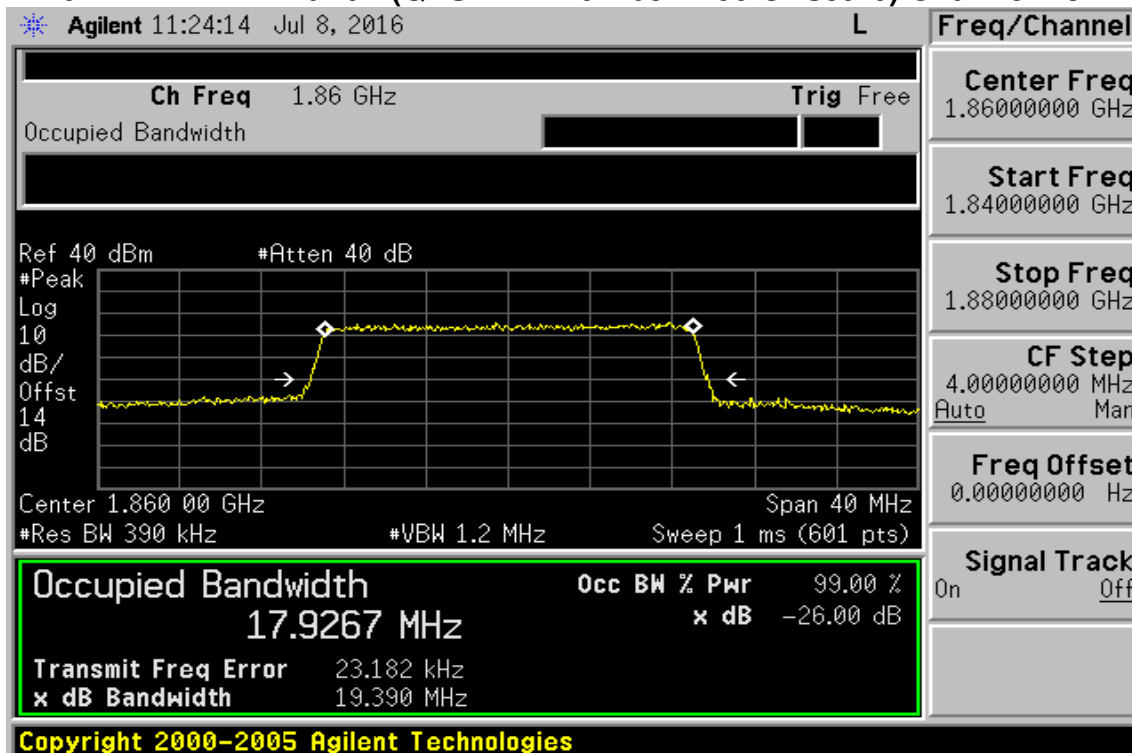
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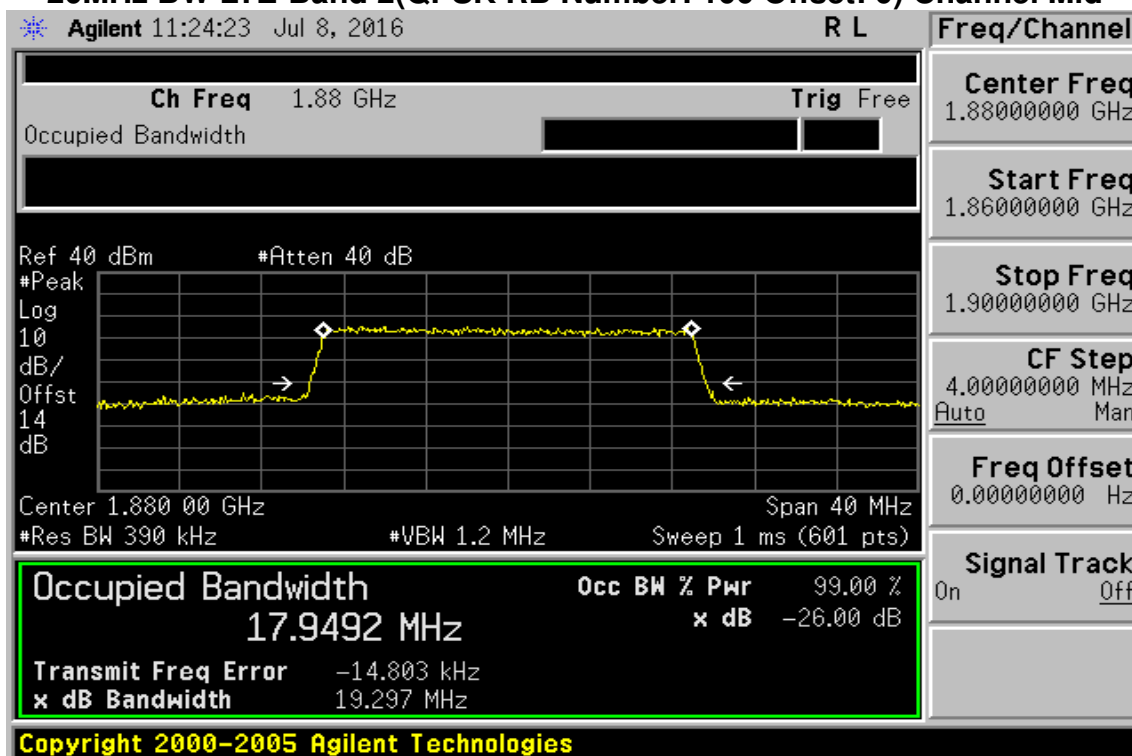
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20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Low



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



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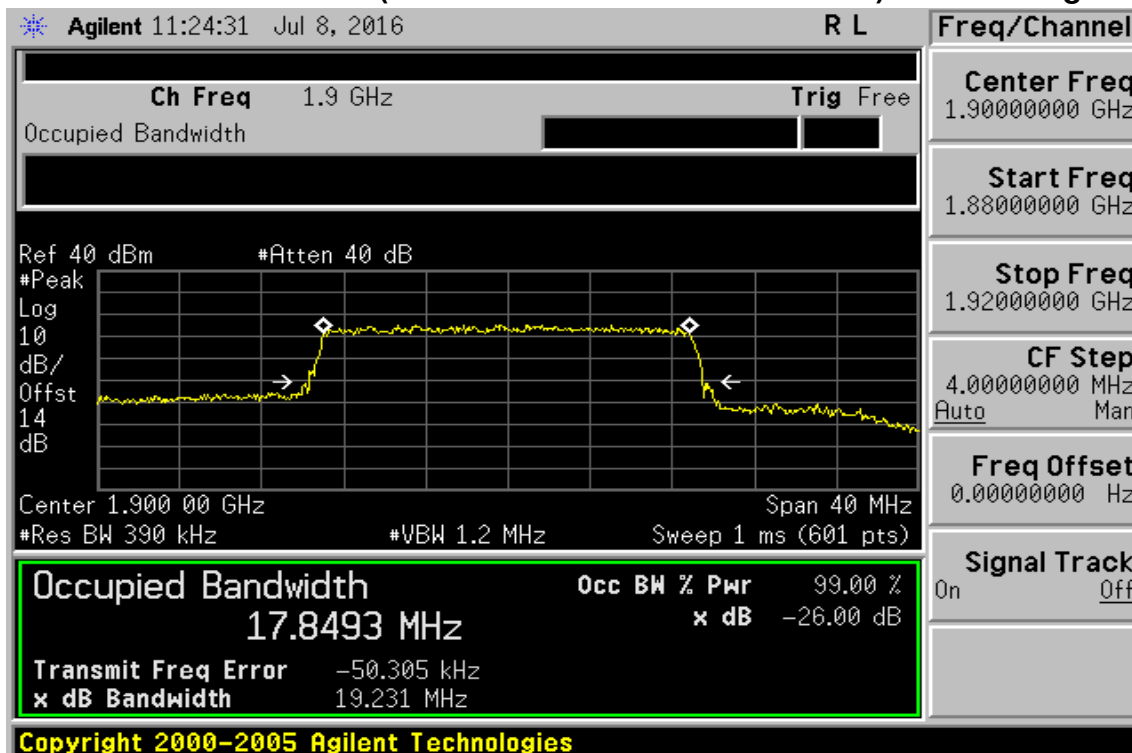
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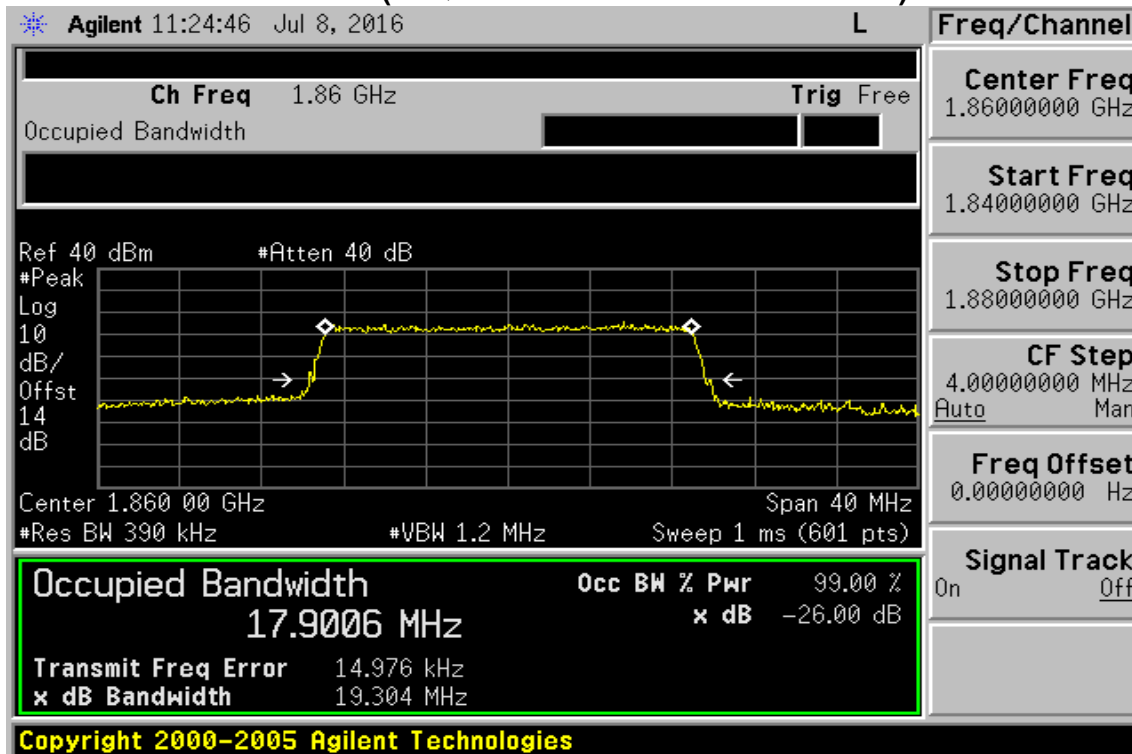
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20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel High



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



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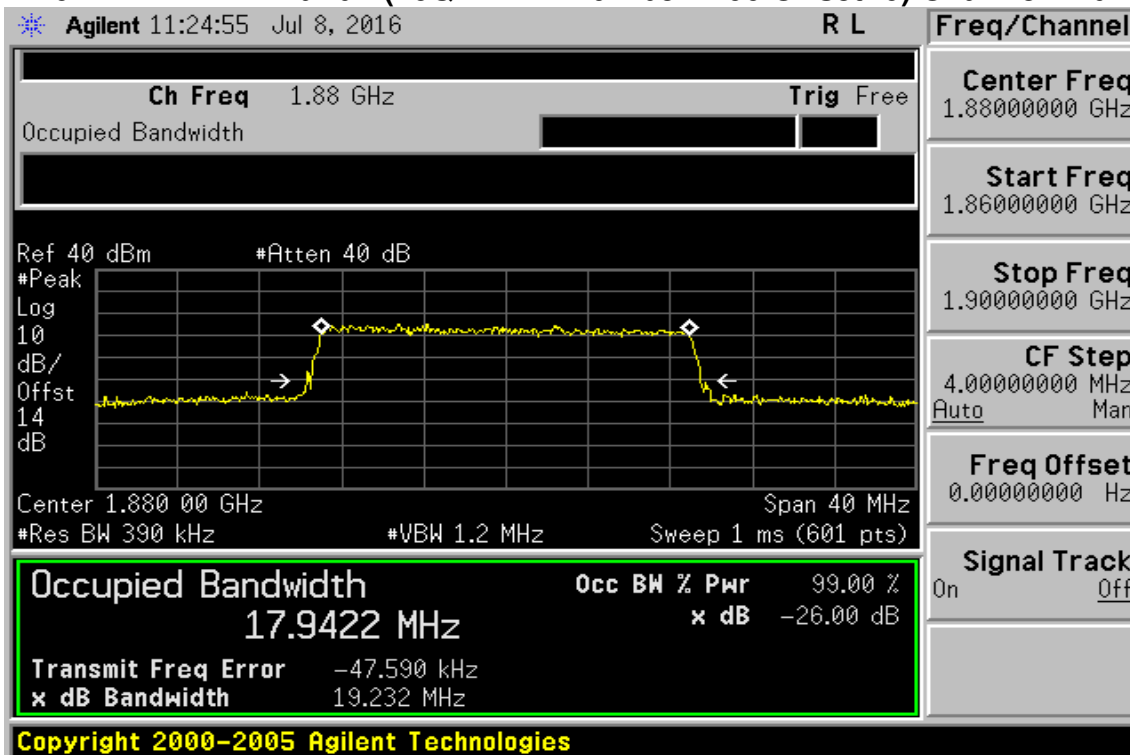
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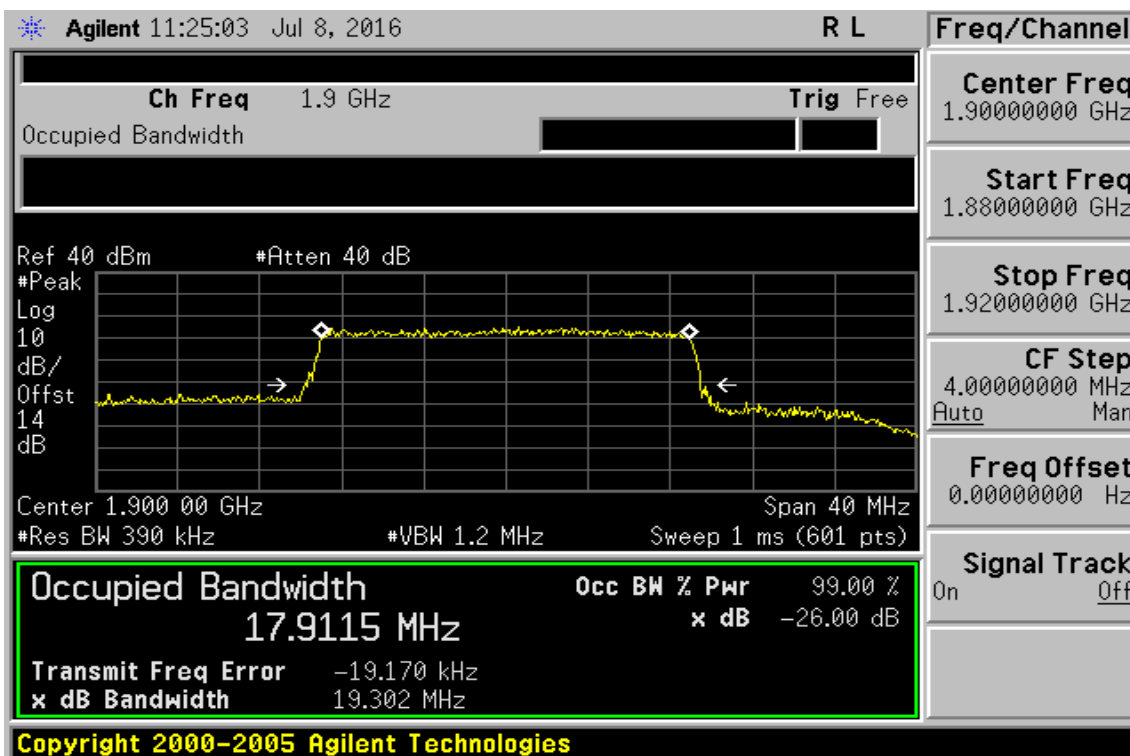
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20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Mid



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



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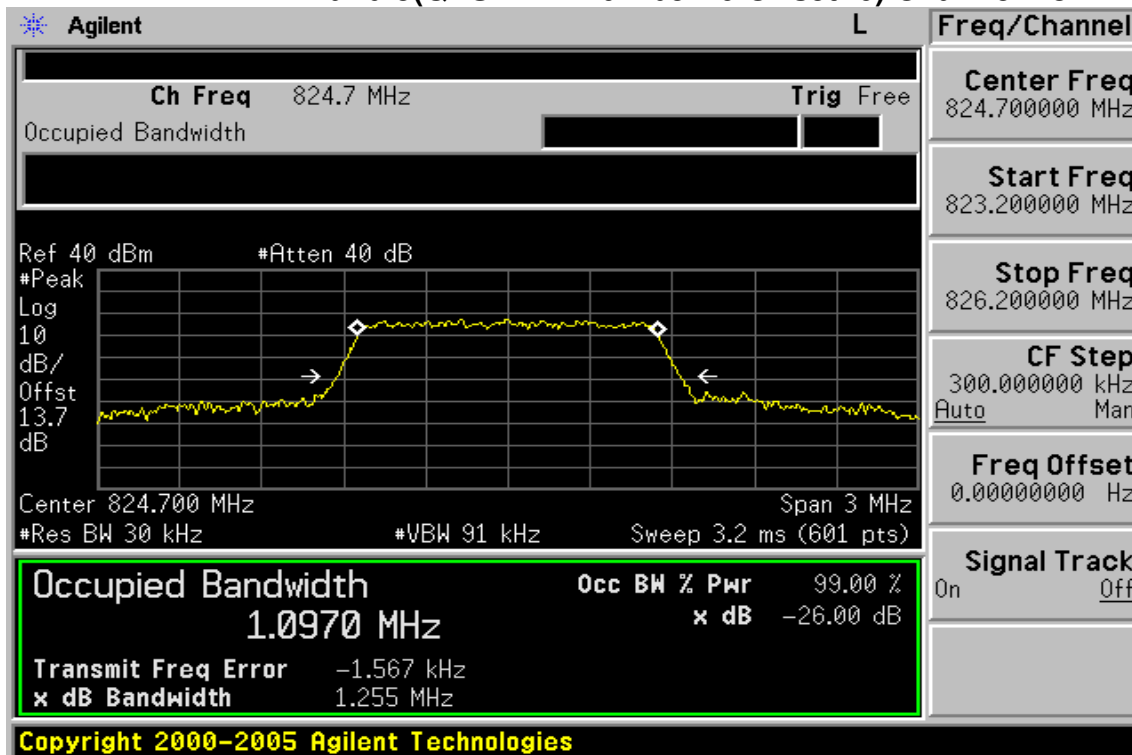
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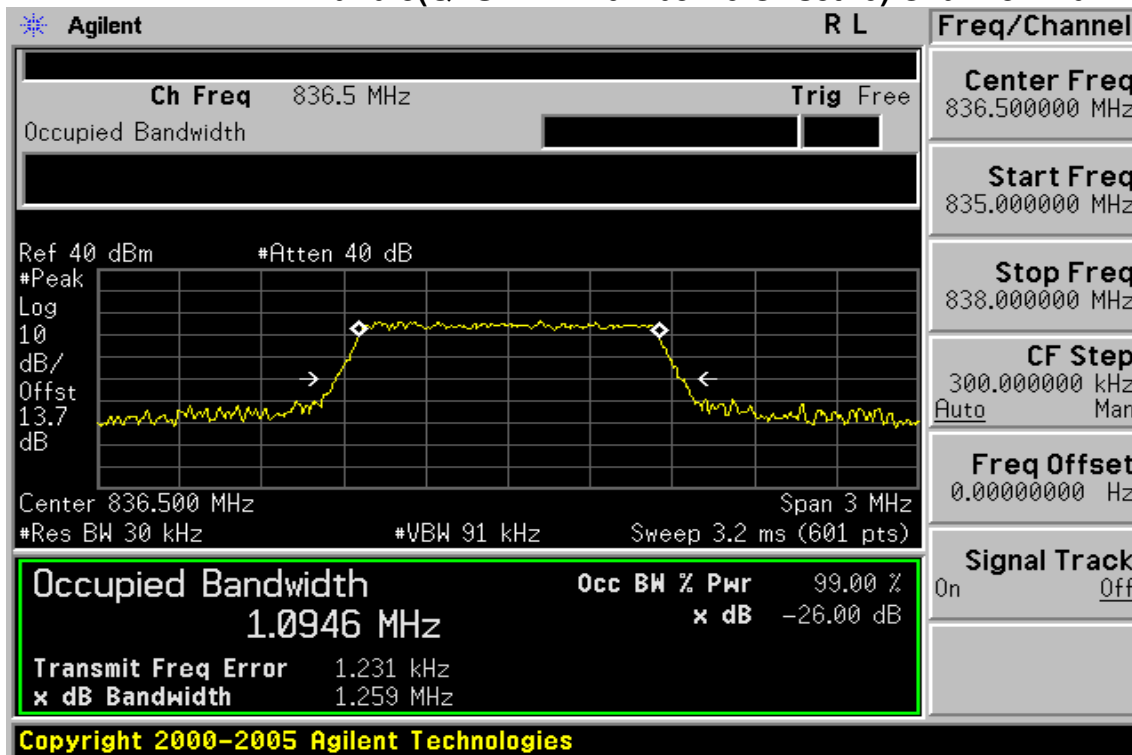
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1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Low



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



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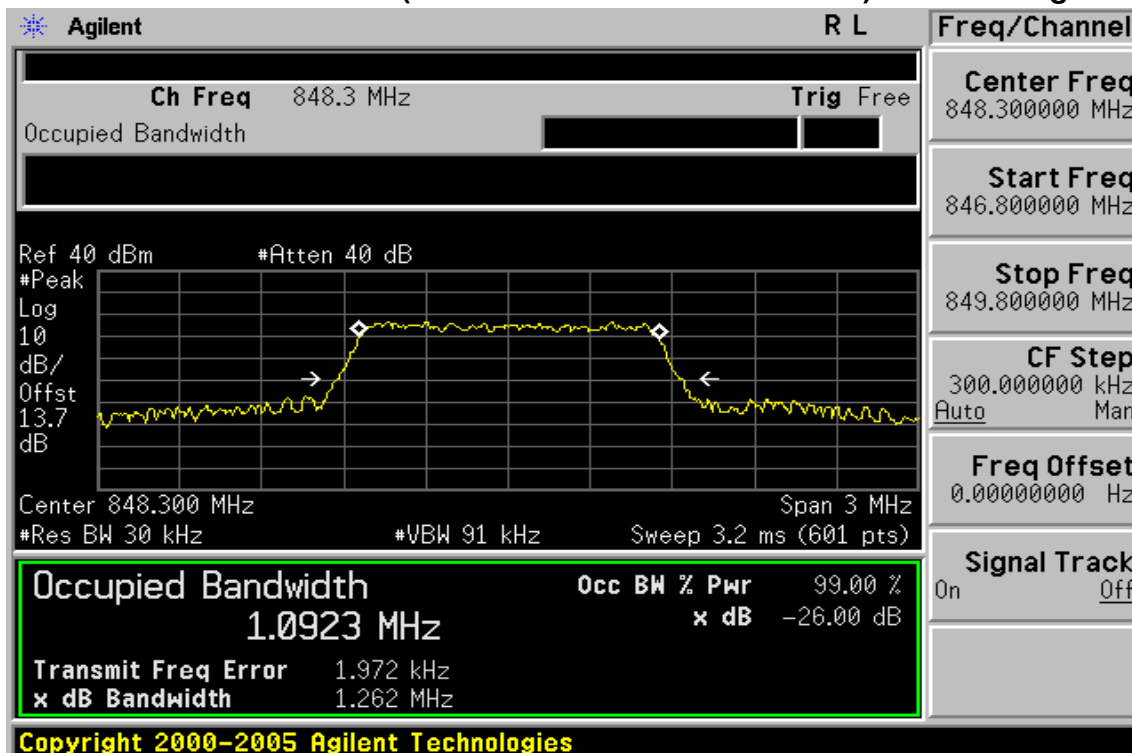
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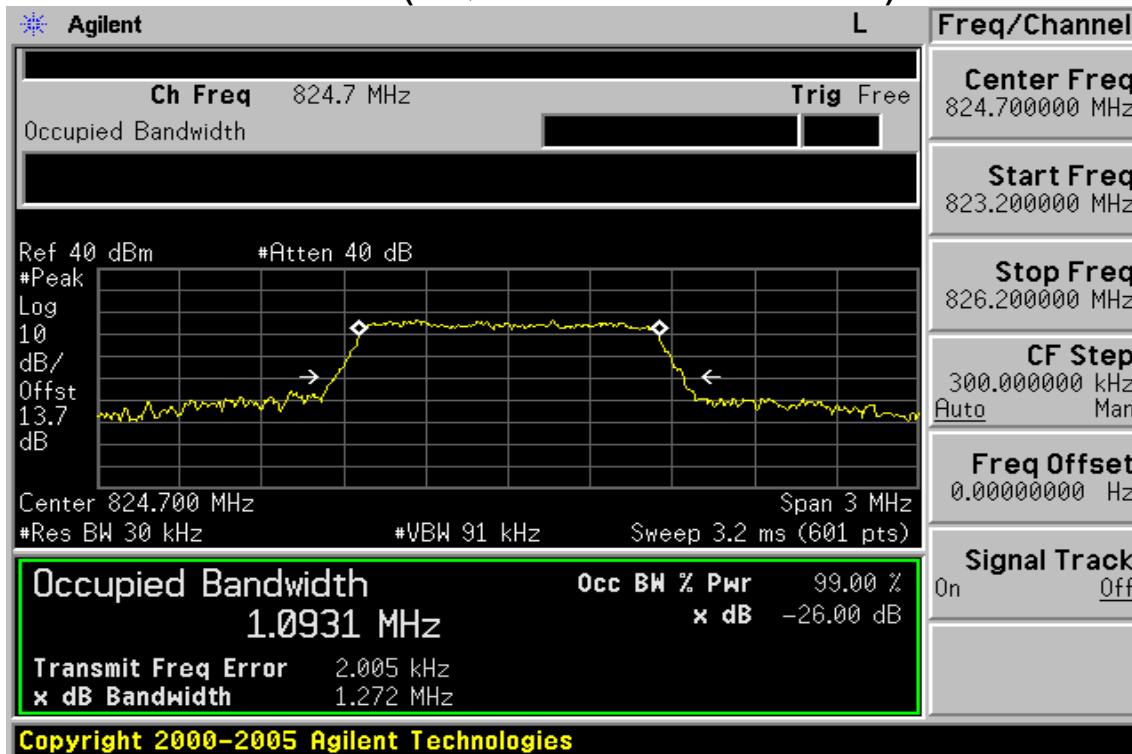
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1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel High



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



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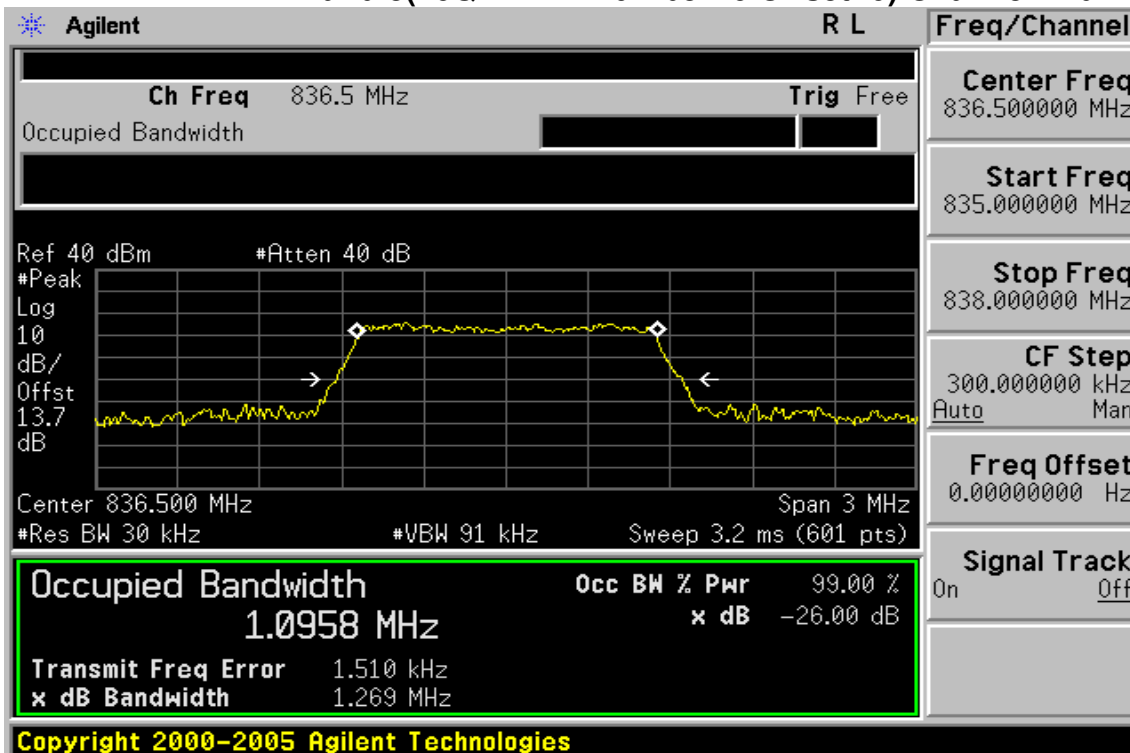
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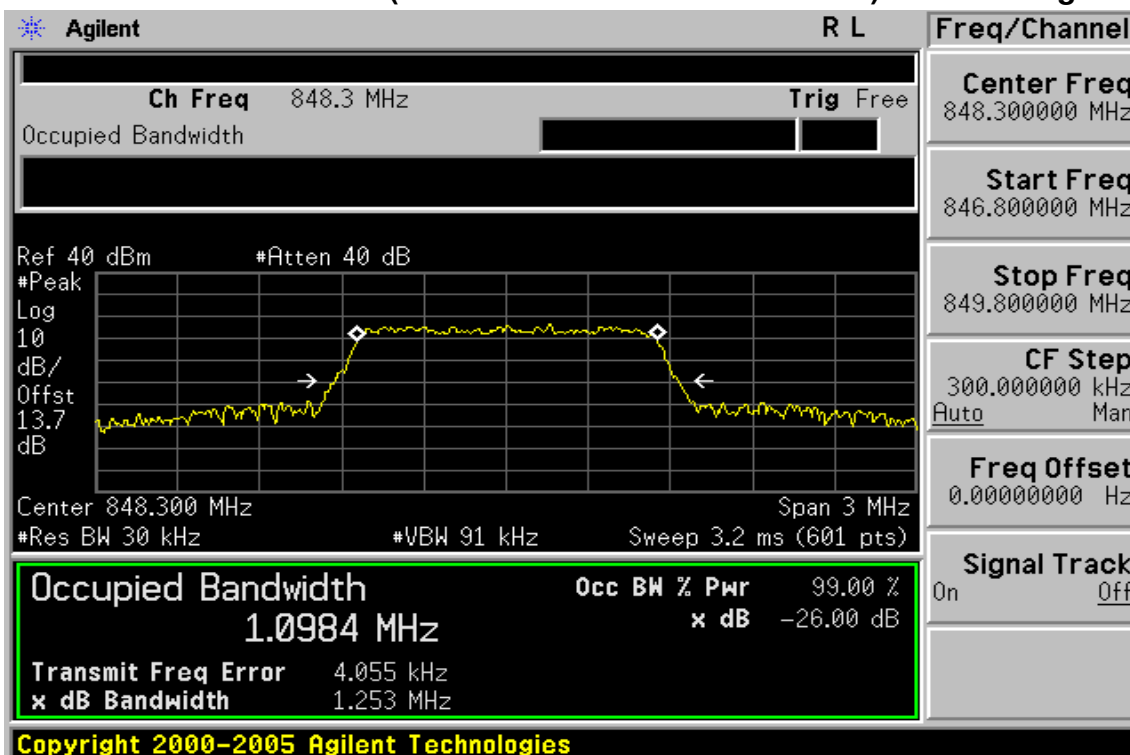
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1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel Mid



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



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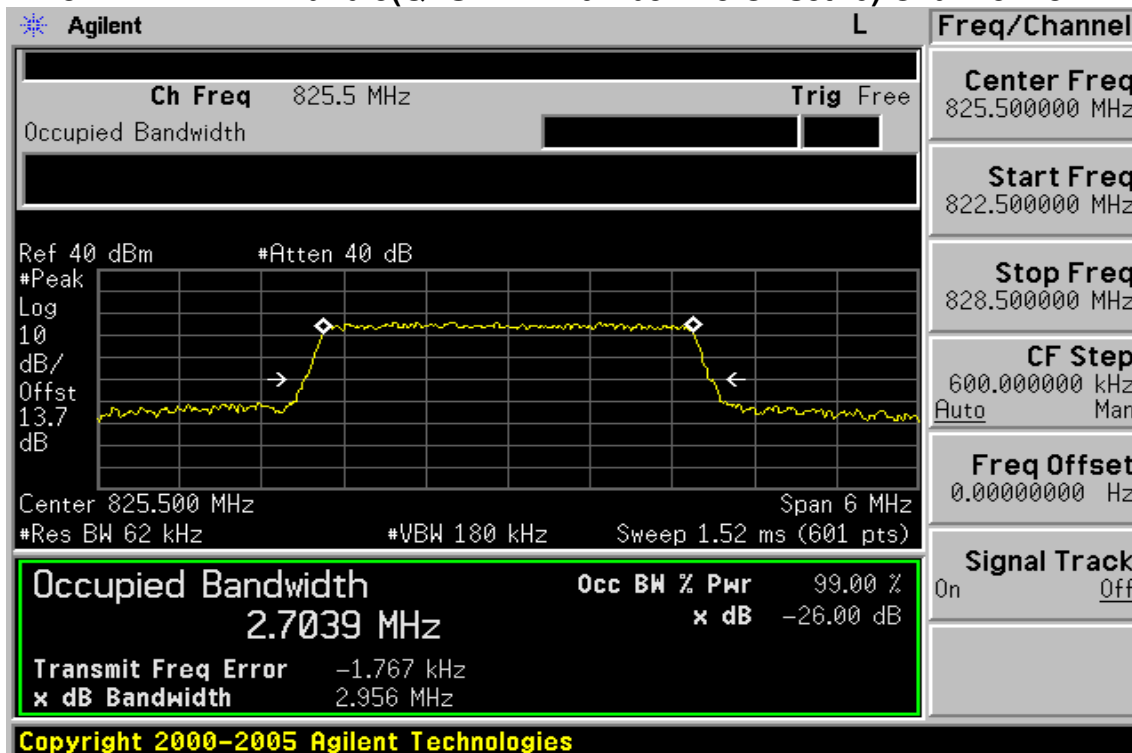
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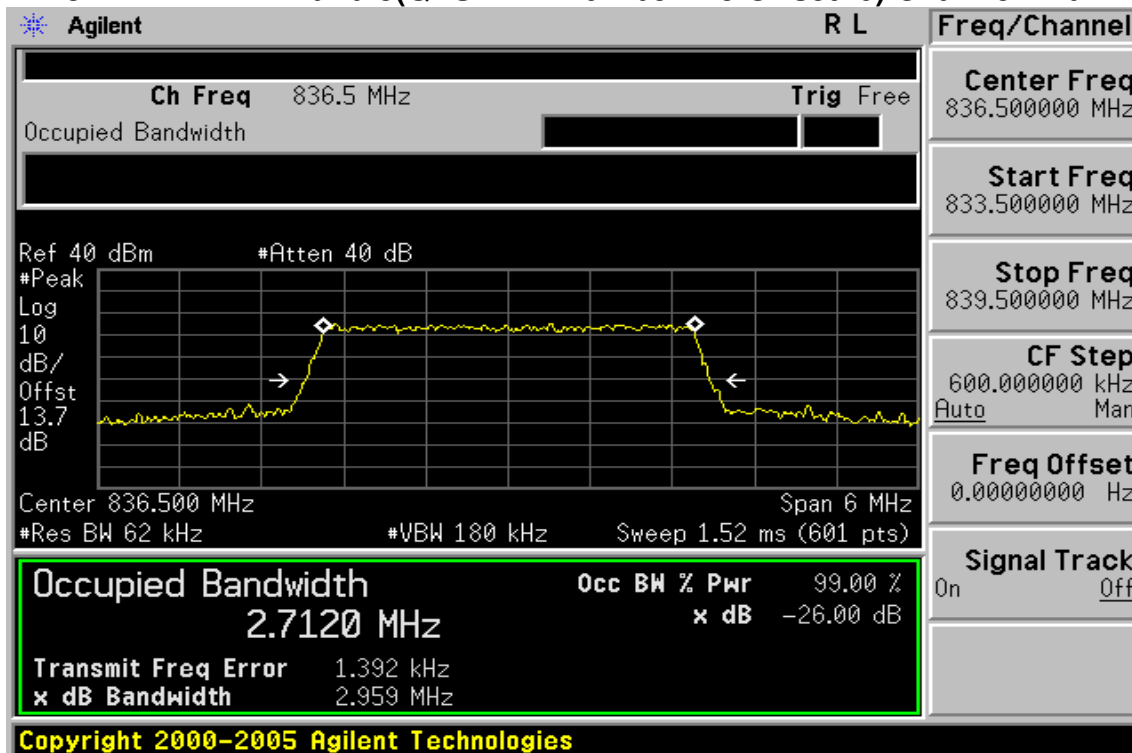
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3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel Low



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



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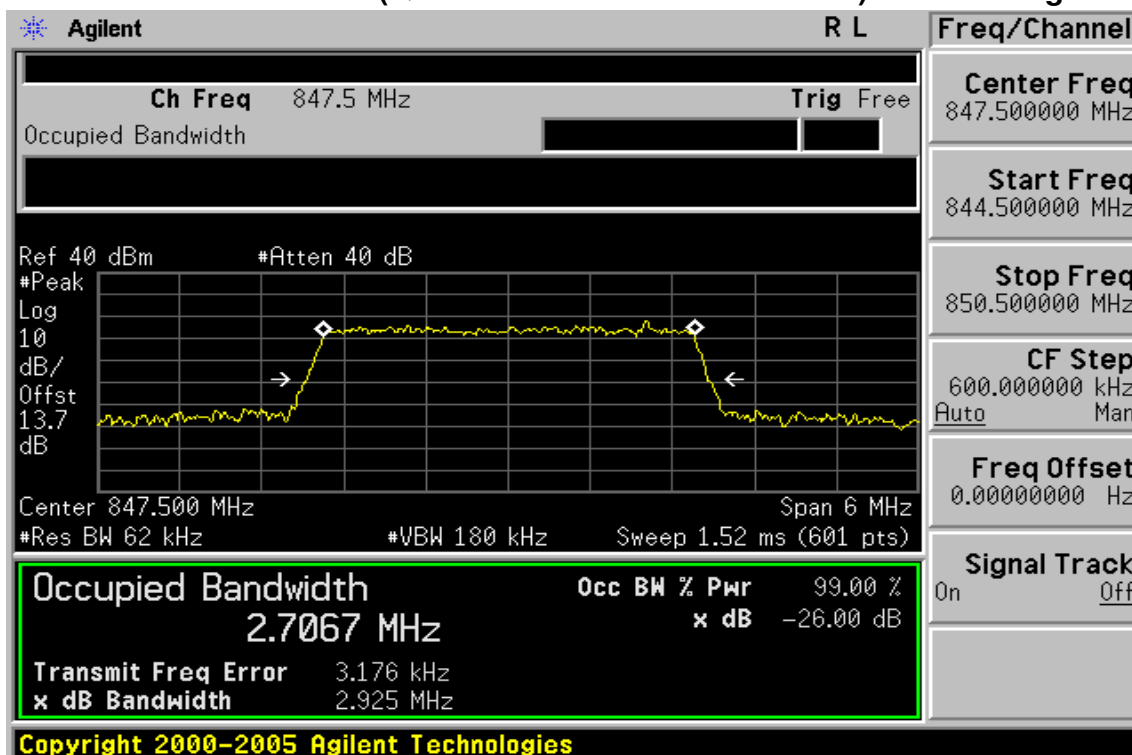
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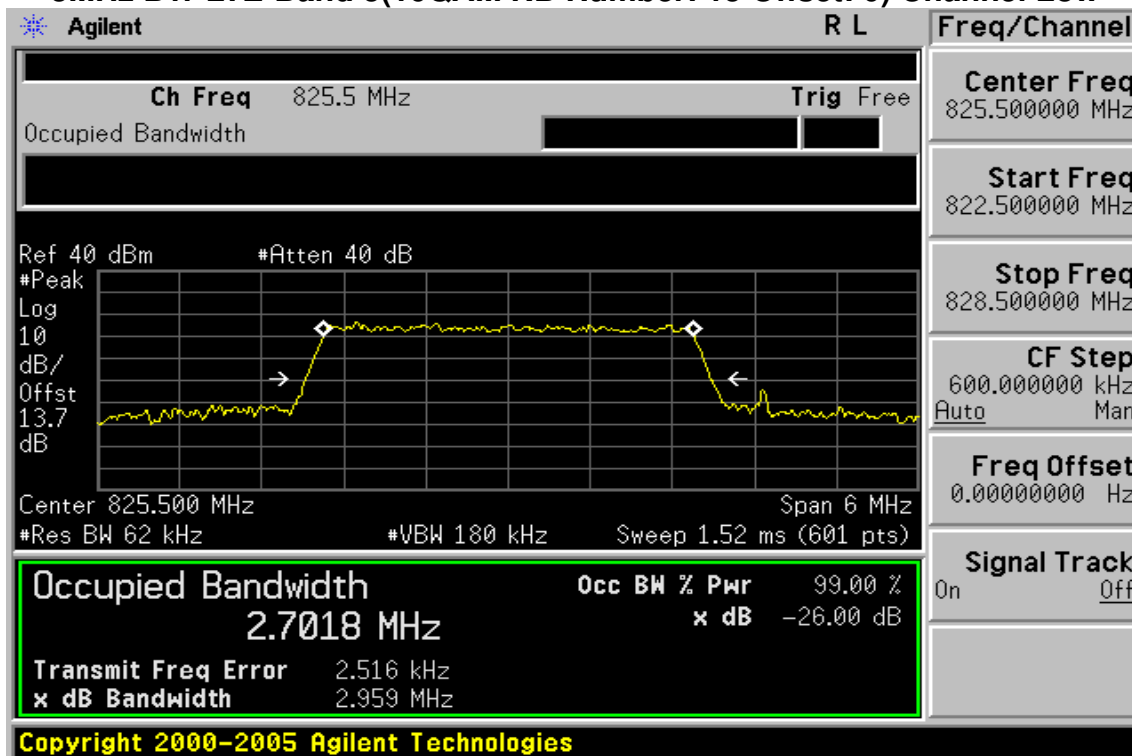
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3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel High



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



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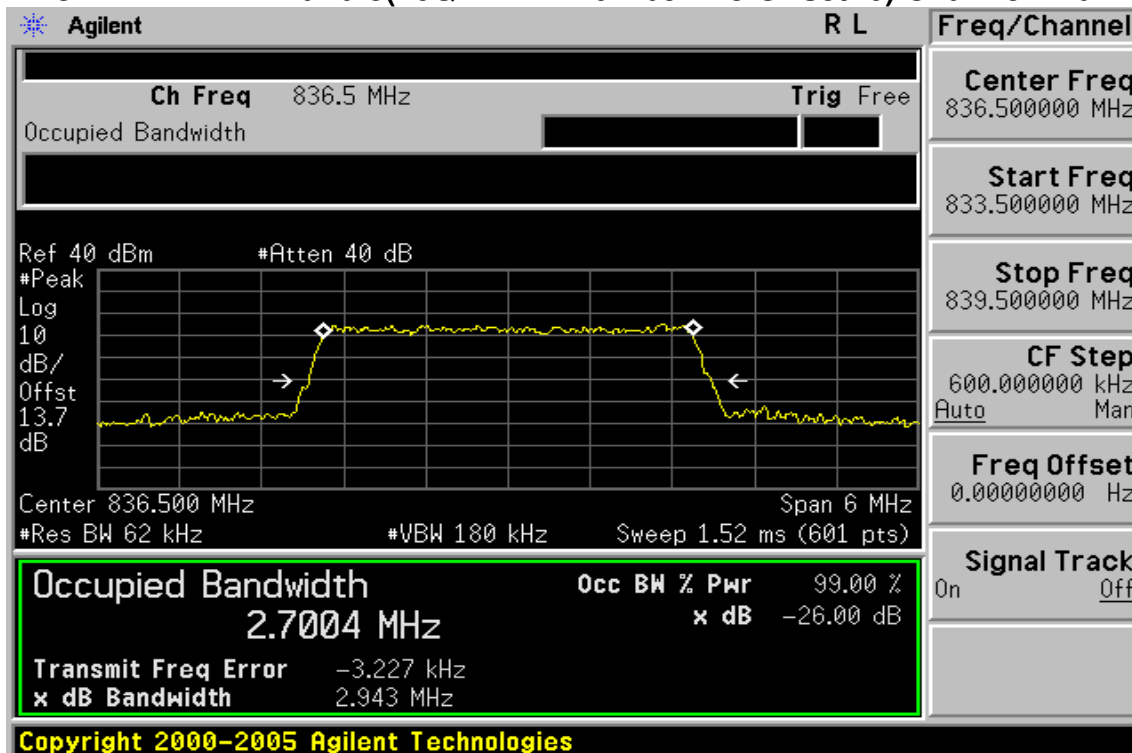
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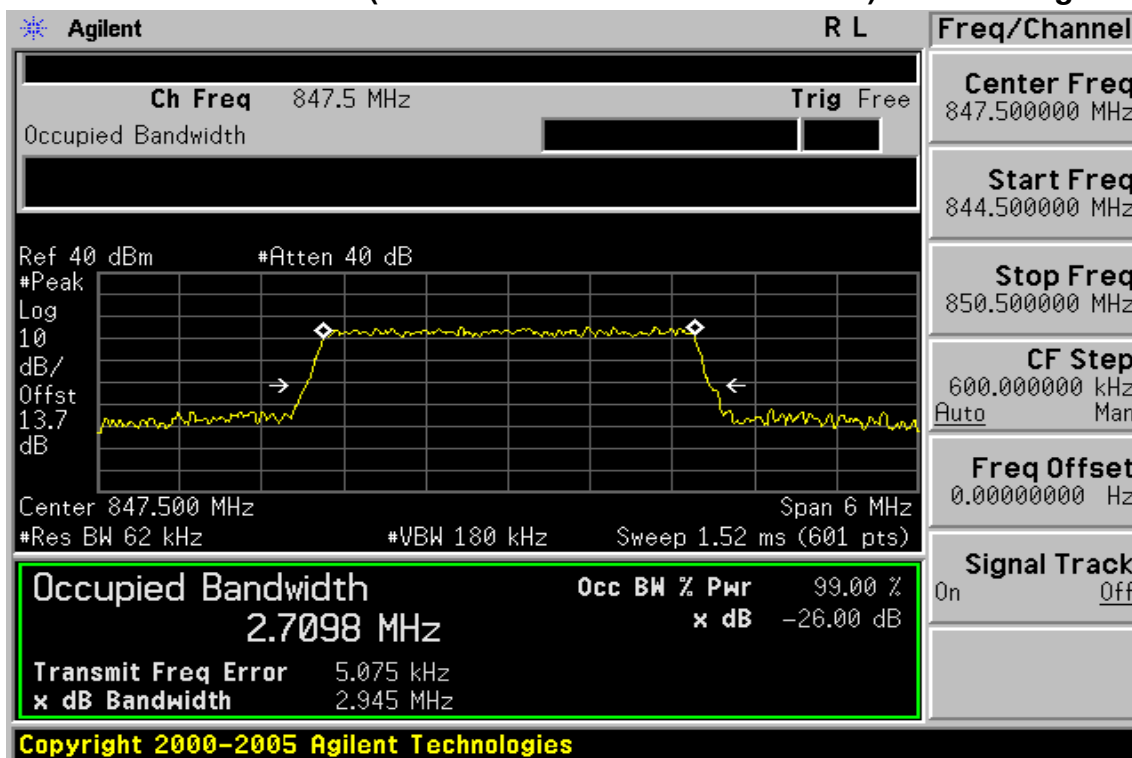
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3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel Mid



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



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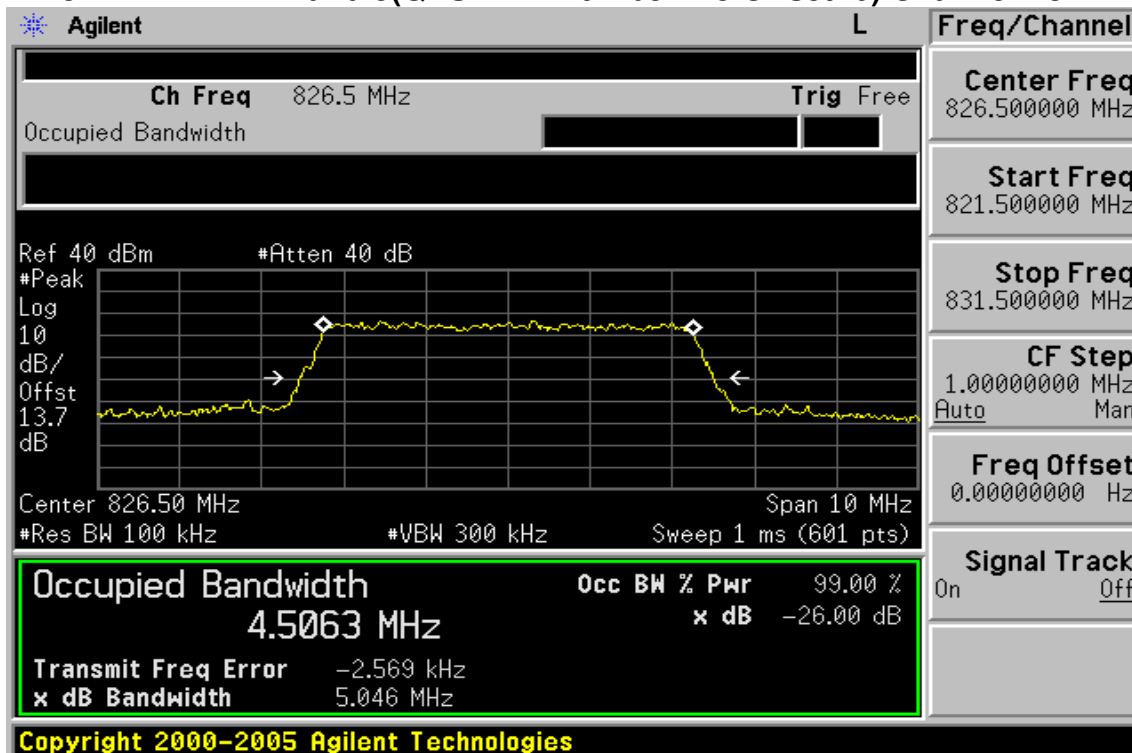
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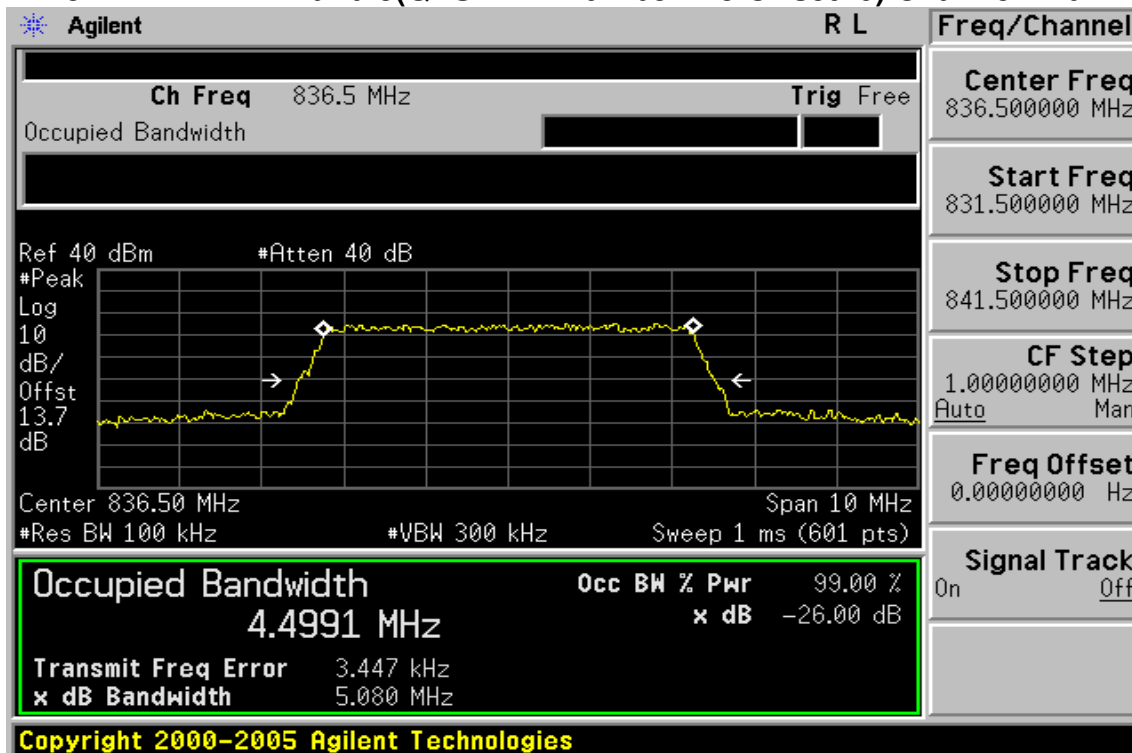
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5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel Low



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



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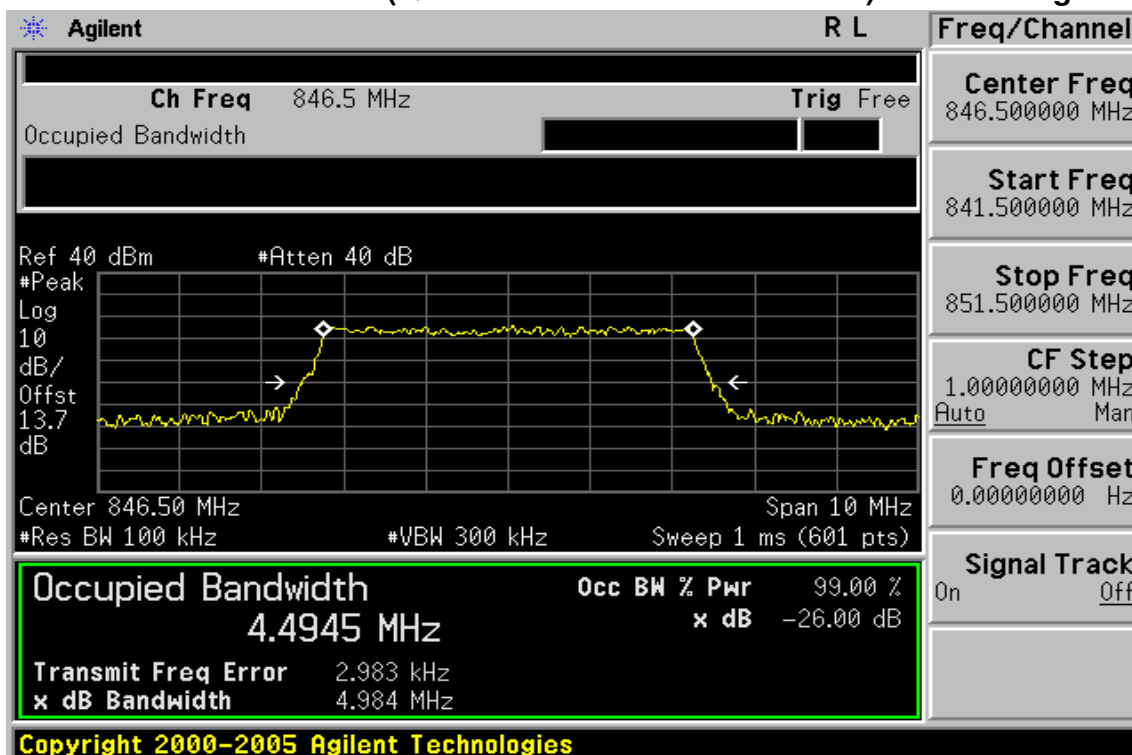
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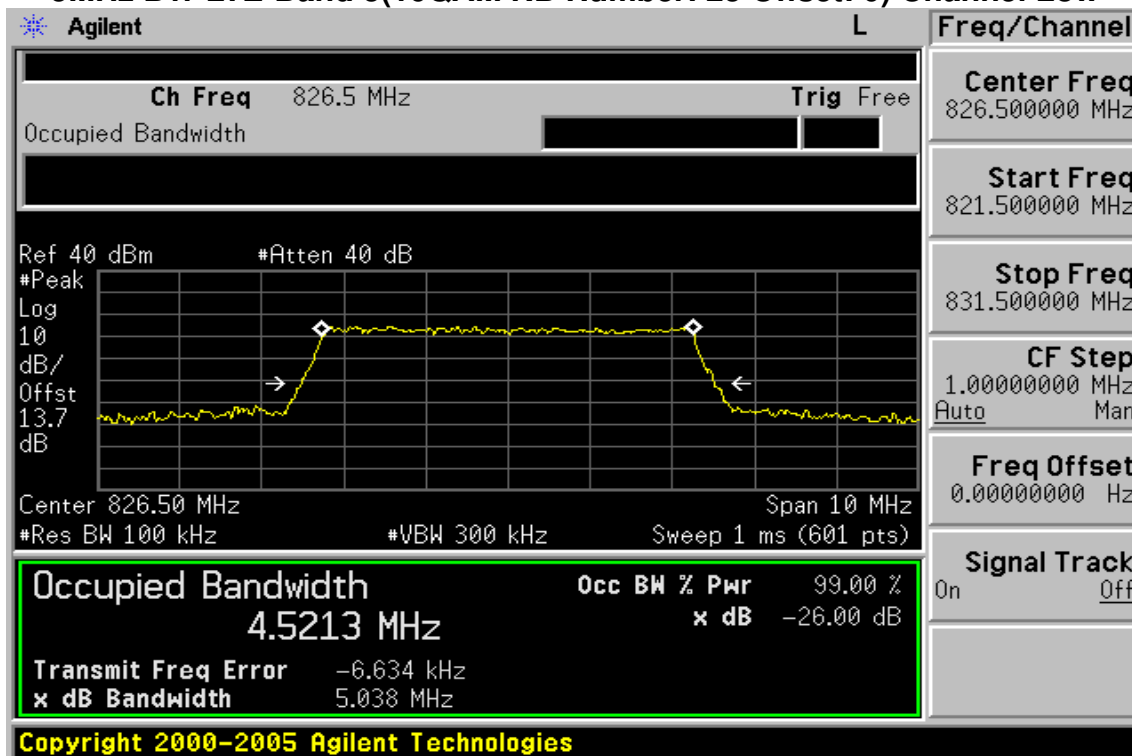
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5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel High



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



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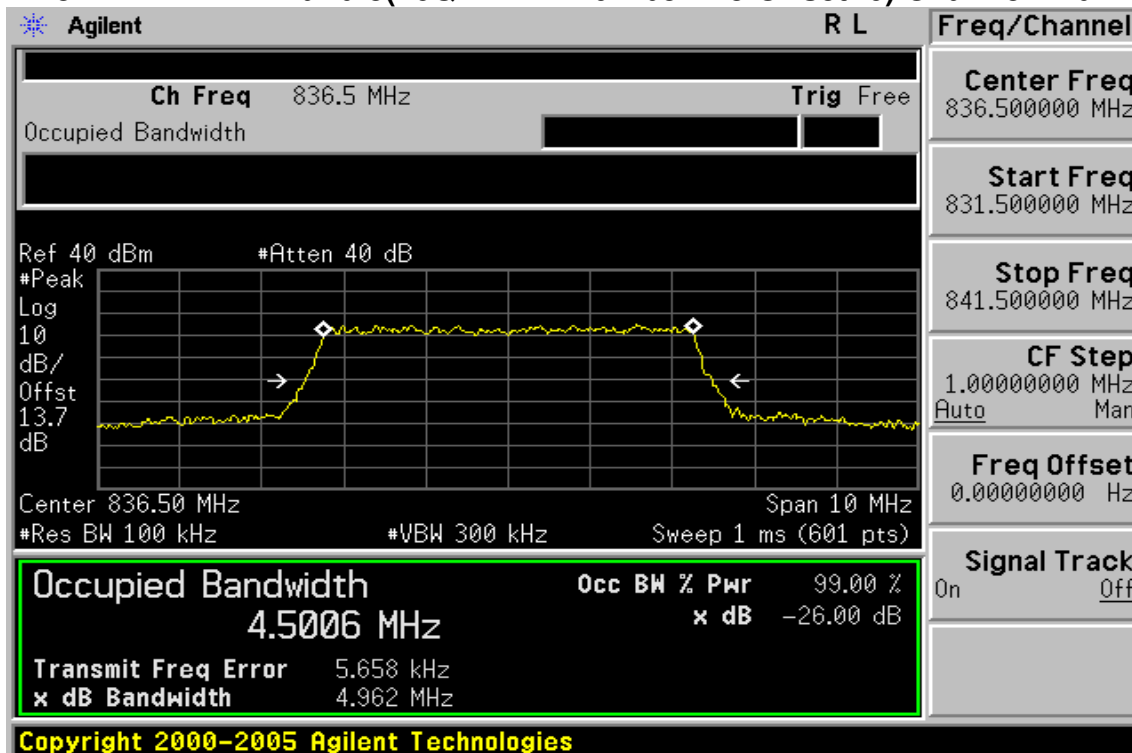
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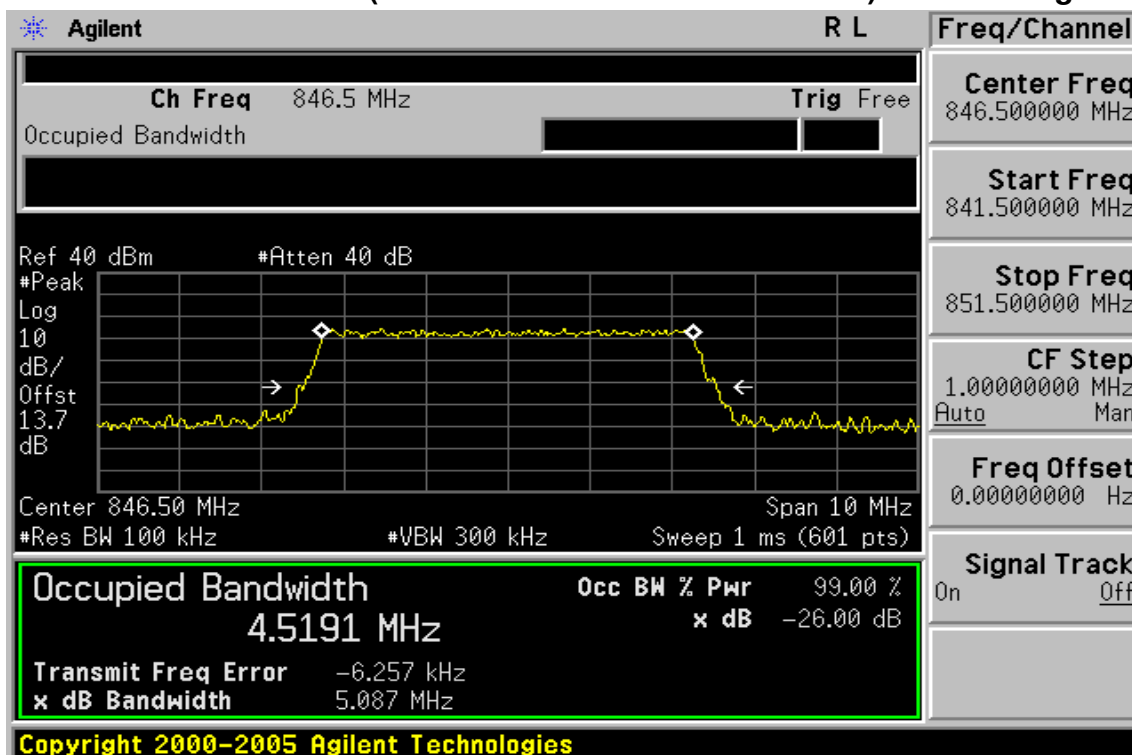
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5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel Mid



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



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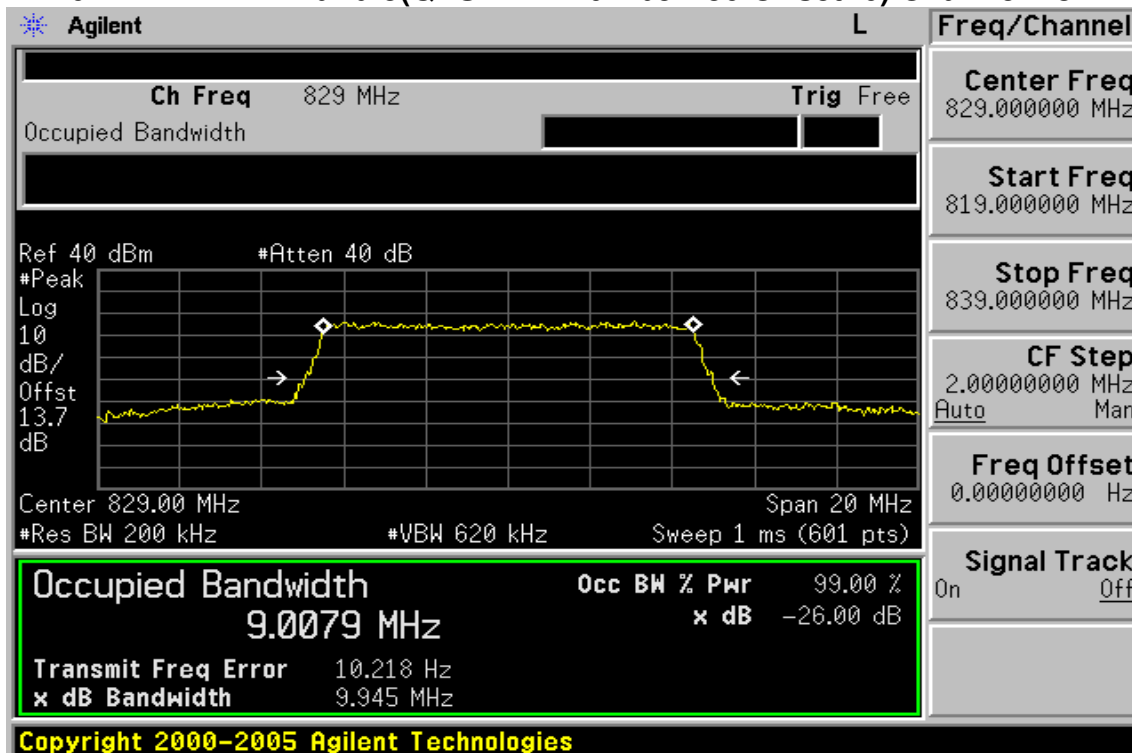
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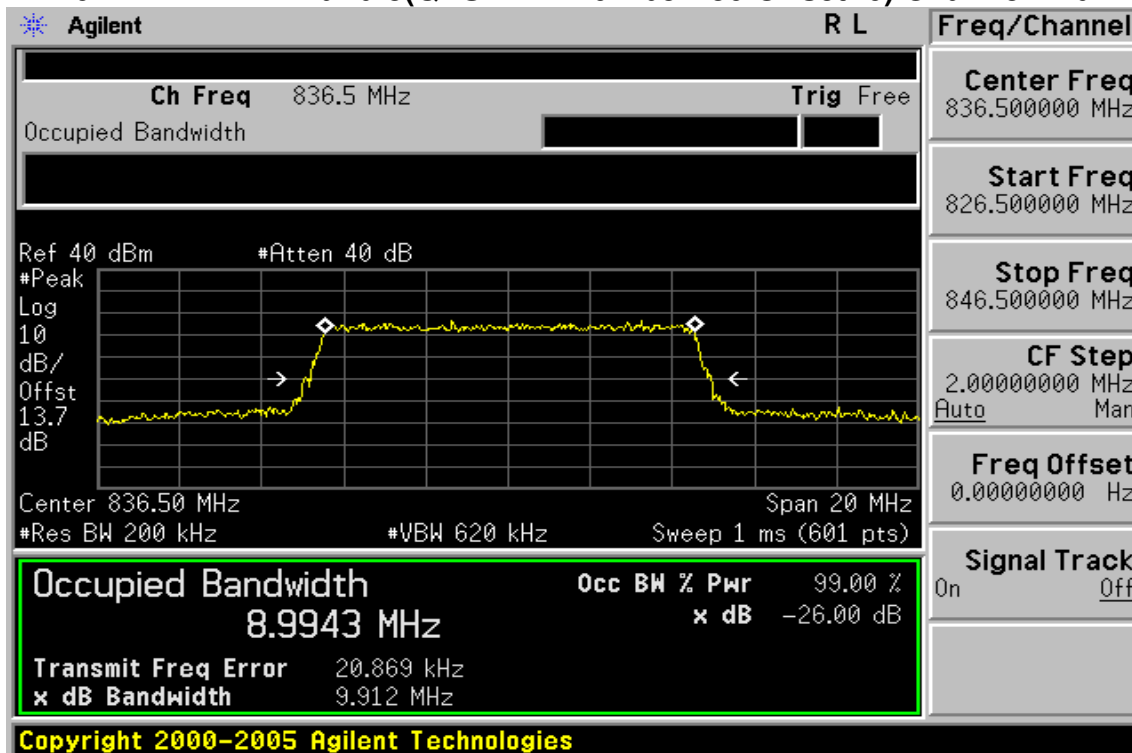
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10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel Low



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



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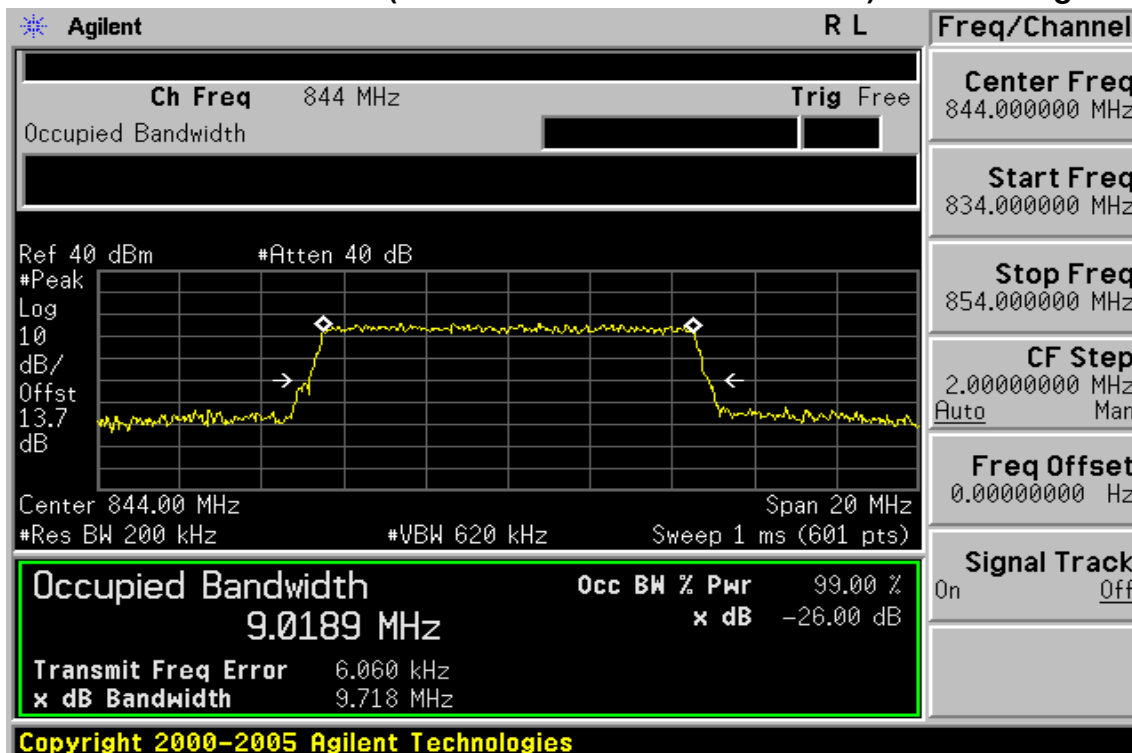
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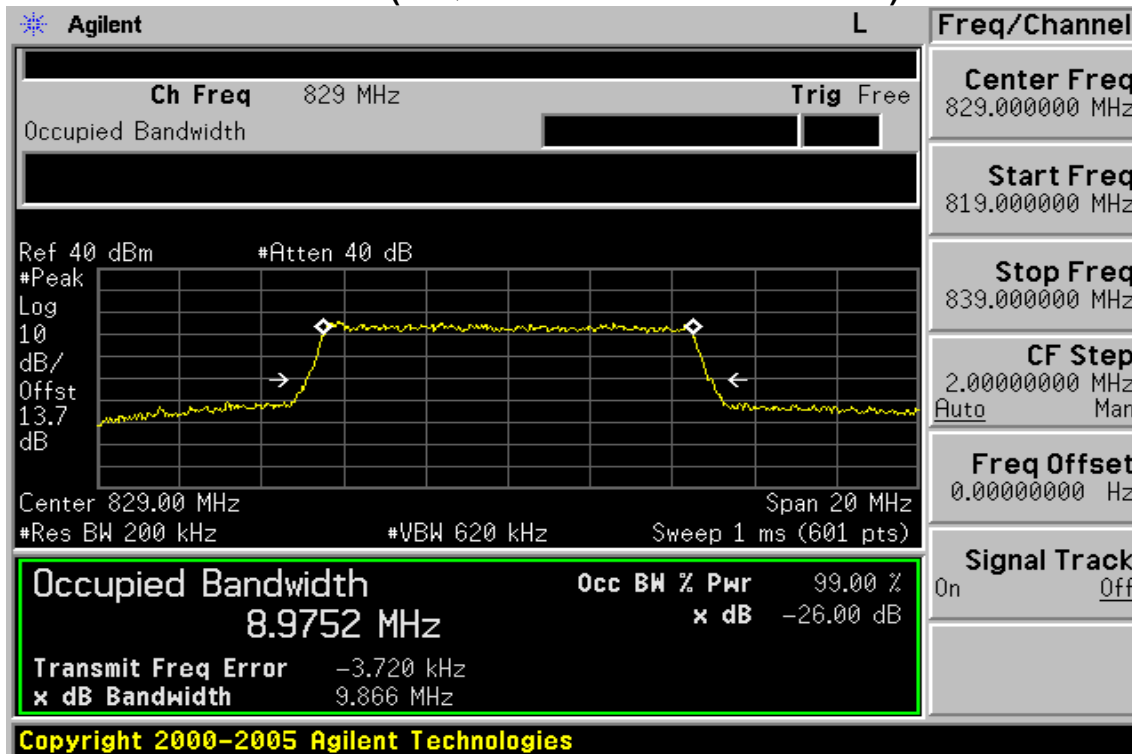
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10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel High



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



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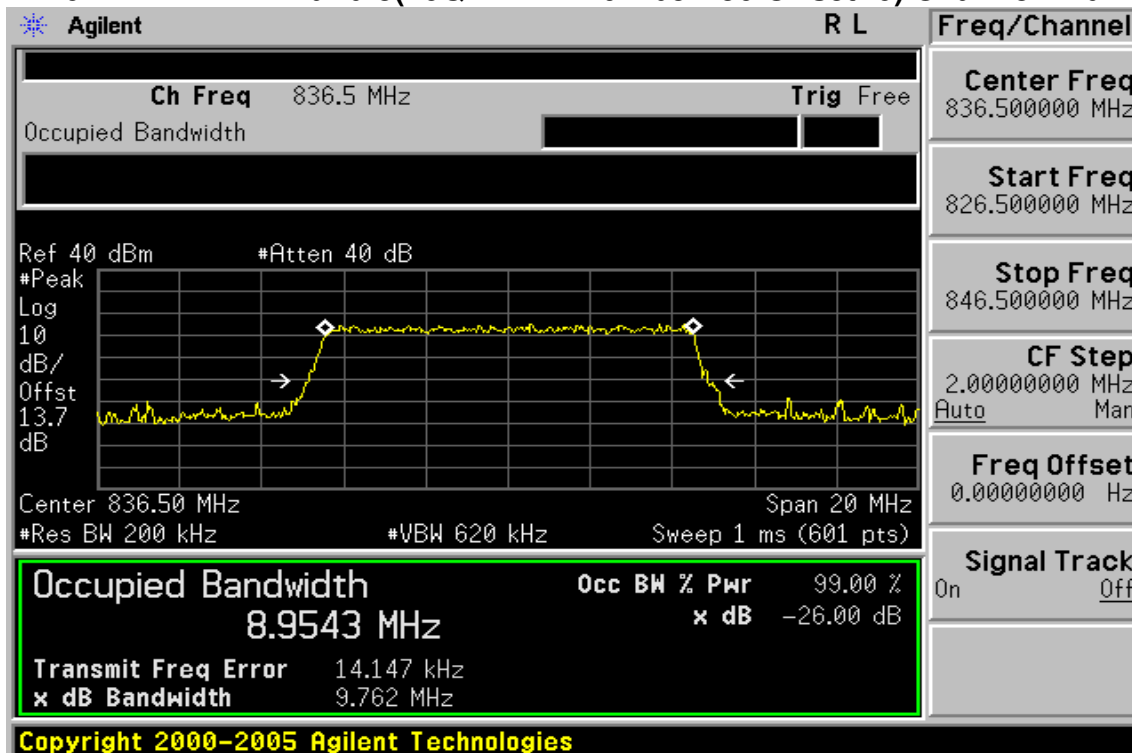
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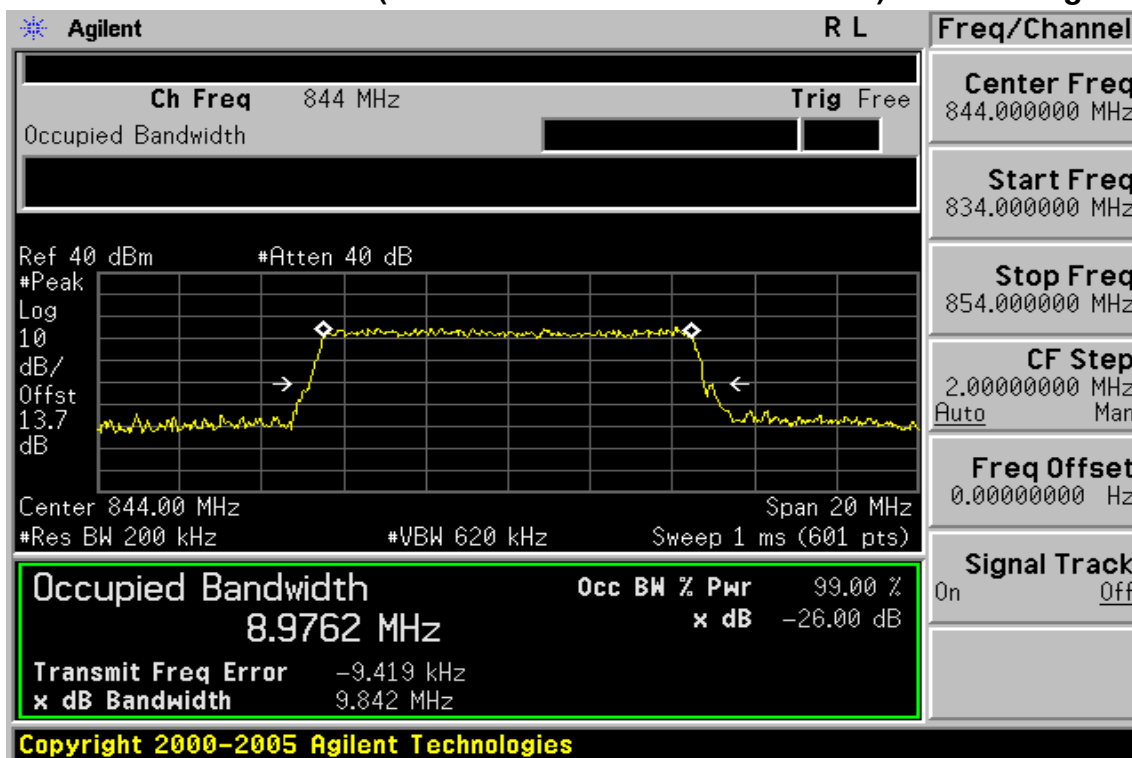
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10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel Mid



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



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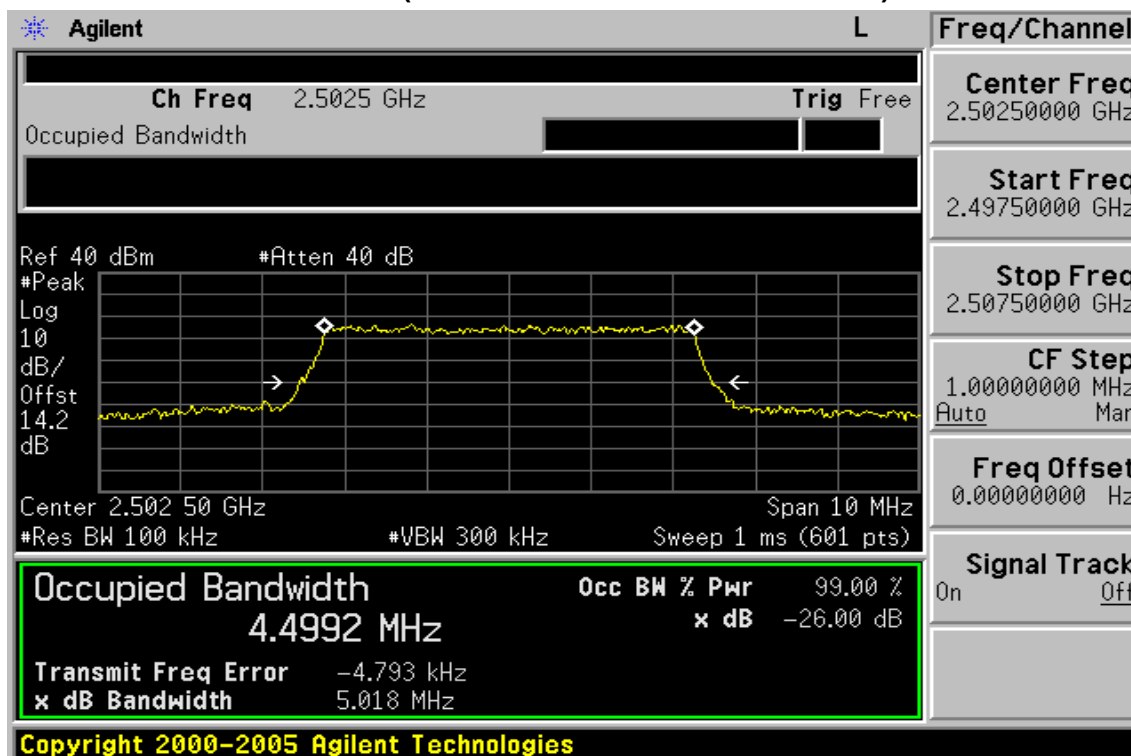
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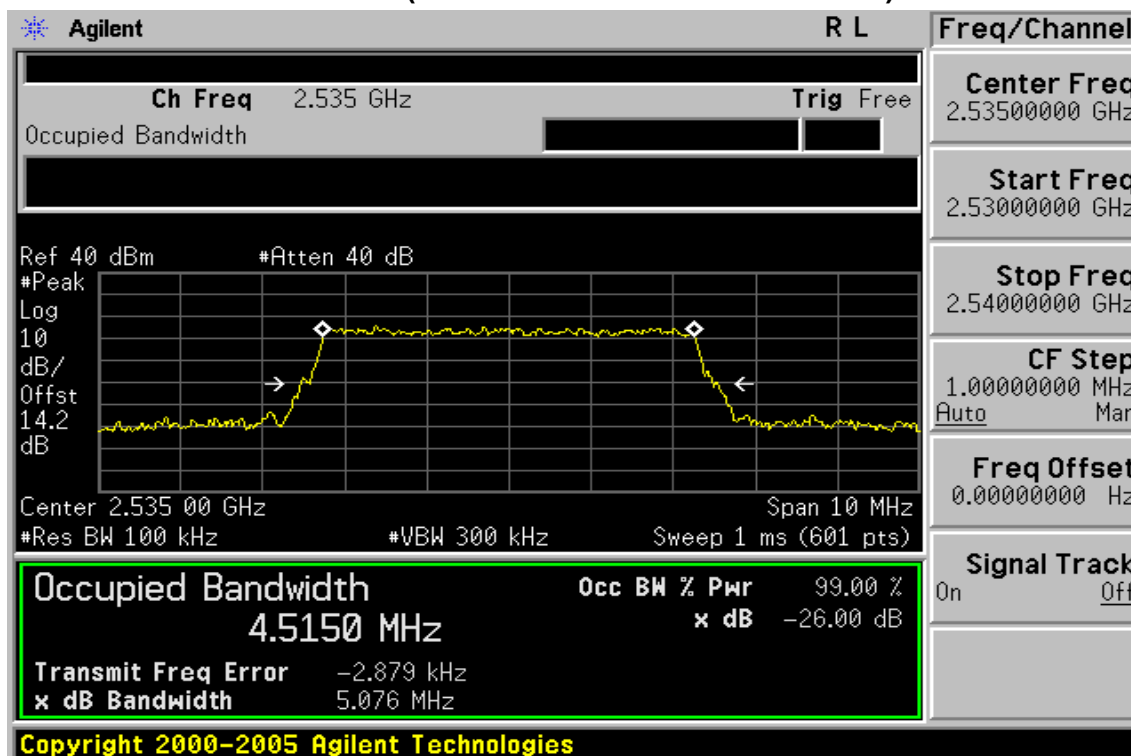
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5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel Low



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



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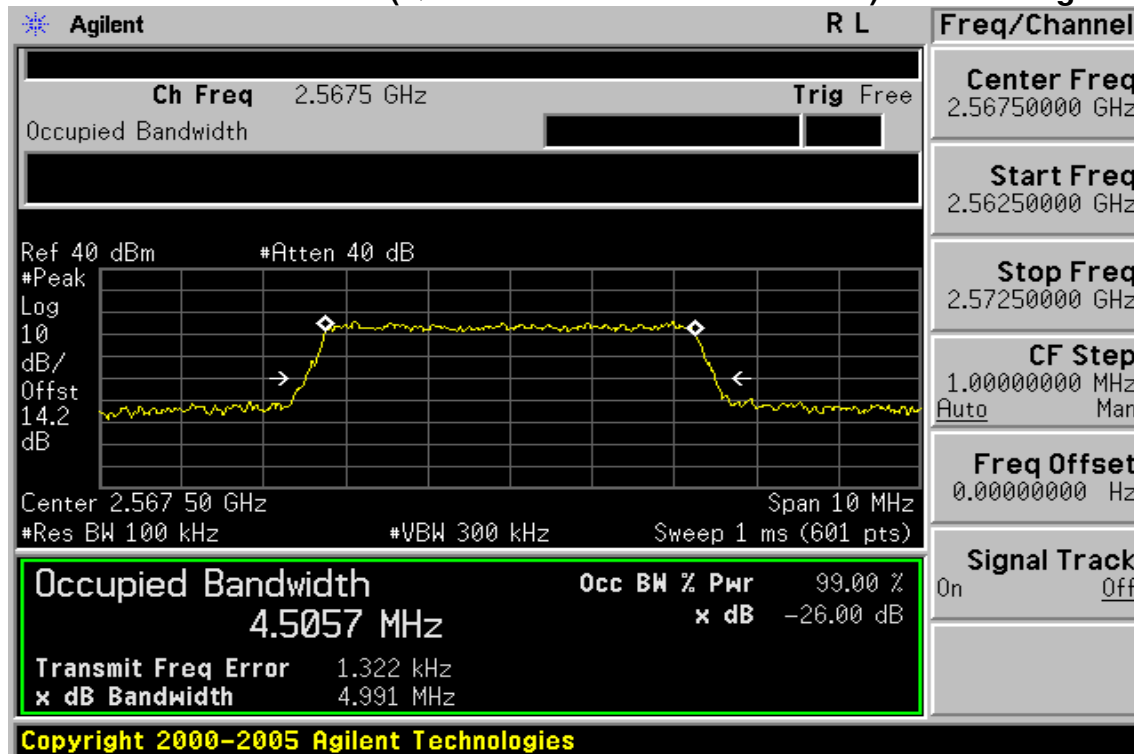
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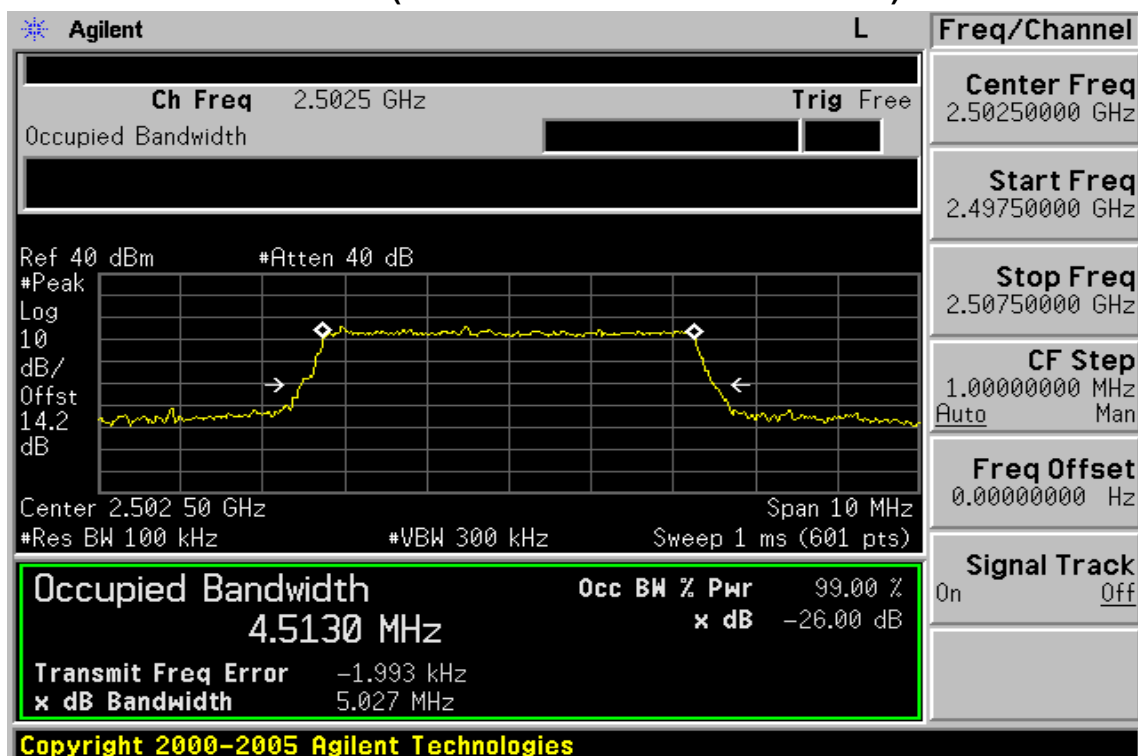
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5MHz BW LTE-Band 7(QPSK RB Number: 25 Offset: 0) Channel High



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



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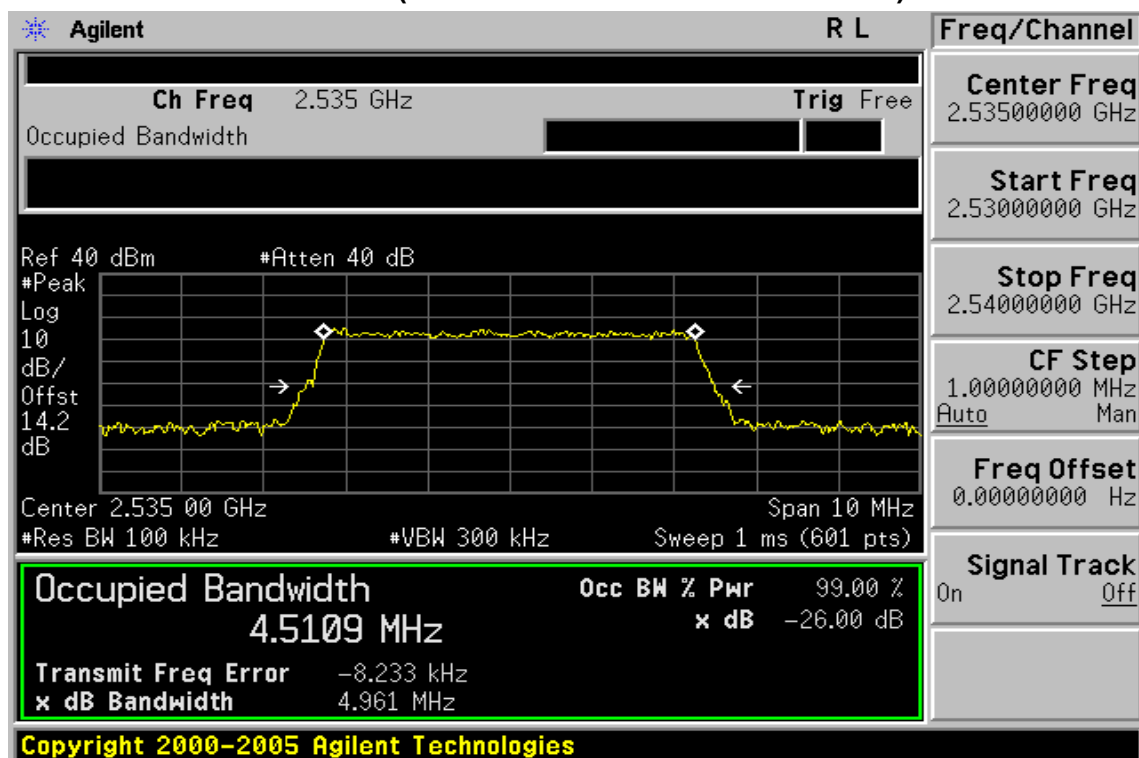
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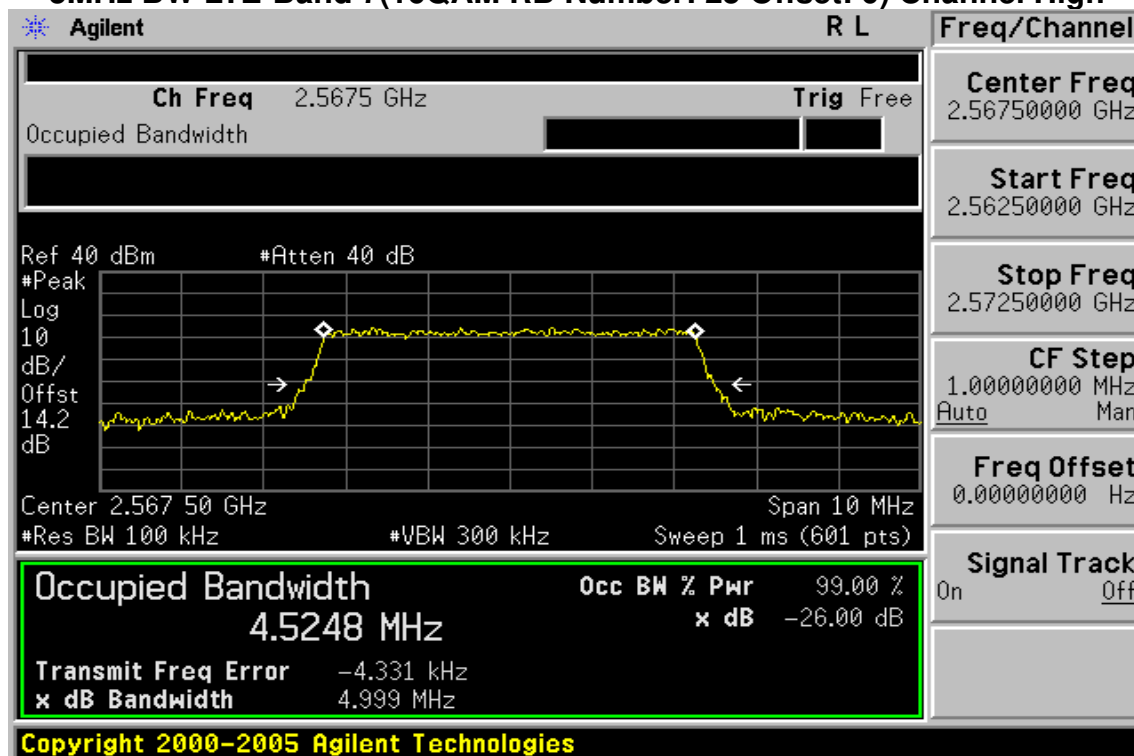
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5MHz BW LTE-Band 7(16QAM RB Number: 25 Offset: 0) Channel Mid



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



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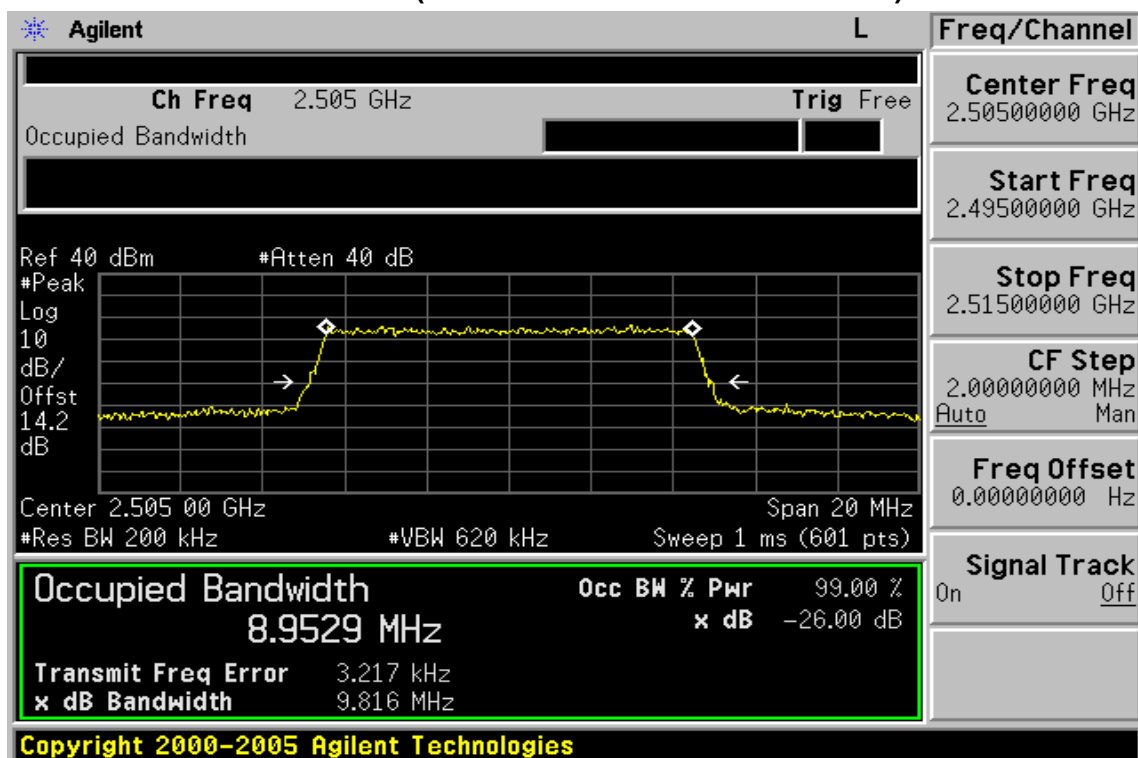
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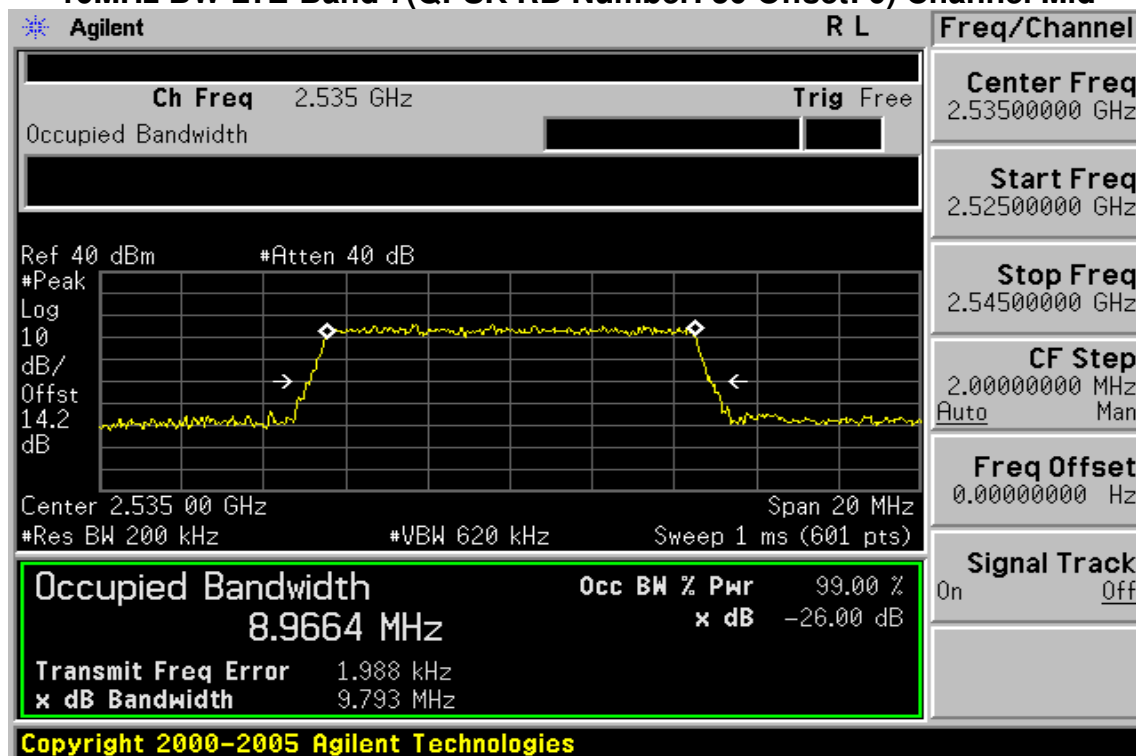
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10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel Mid



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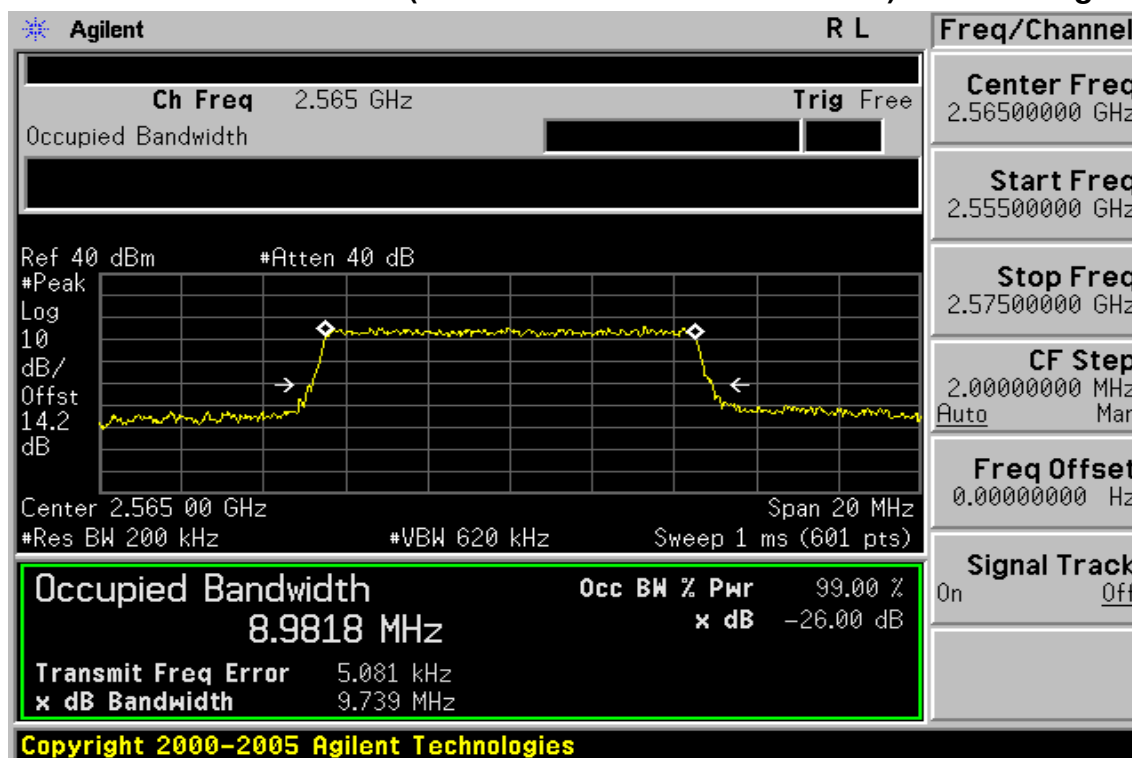
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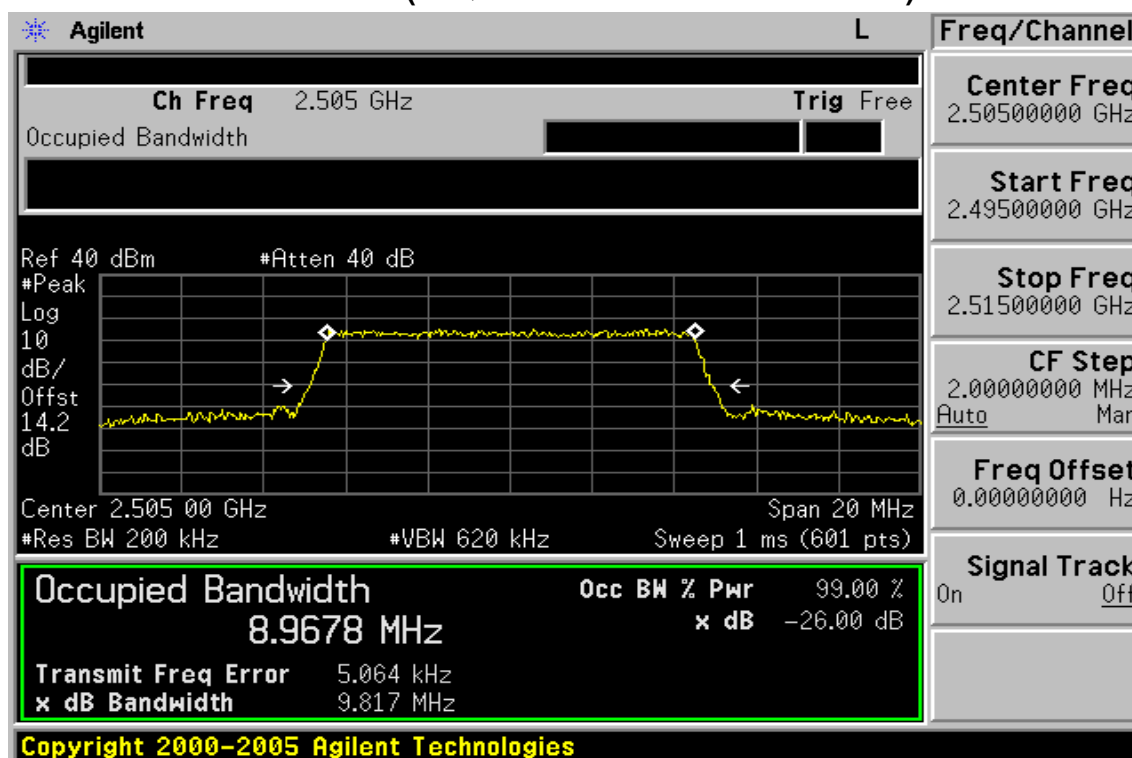
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10MHz BW LTE-Band 7(QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Band 7 (16QAM RB Number: 50 Offset: 0) Channel Low



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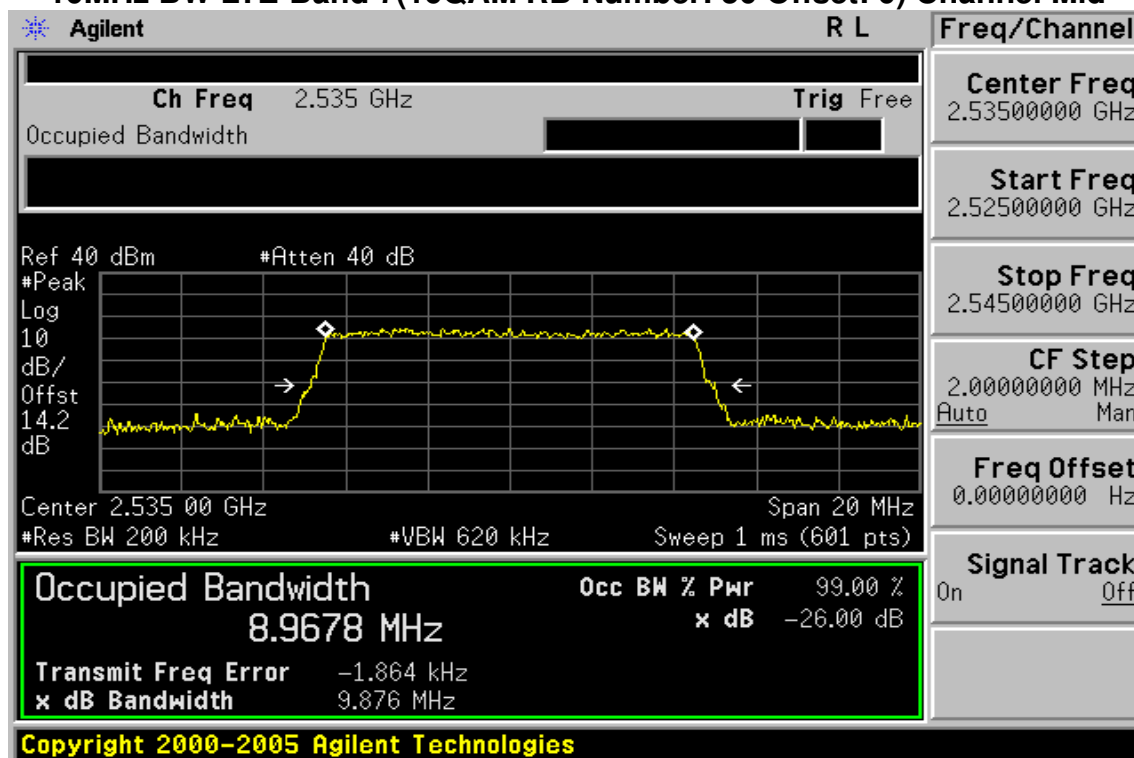
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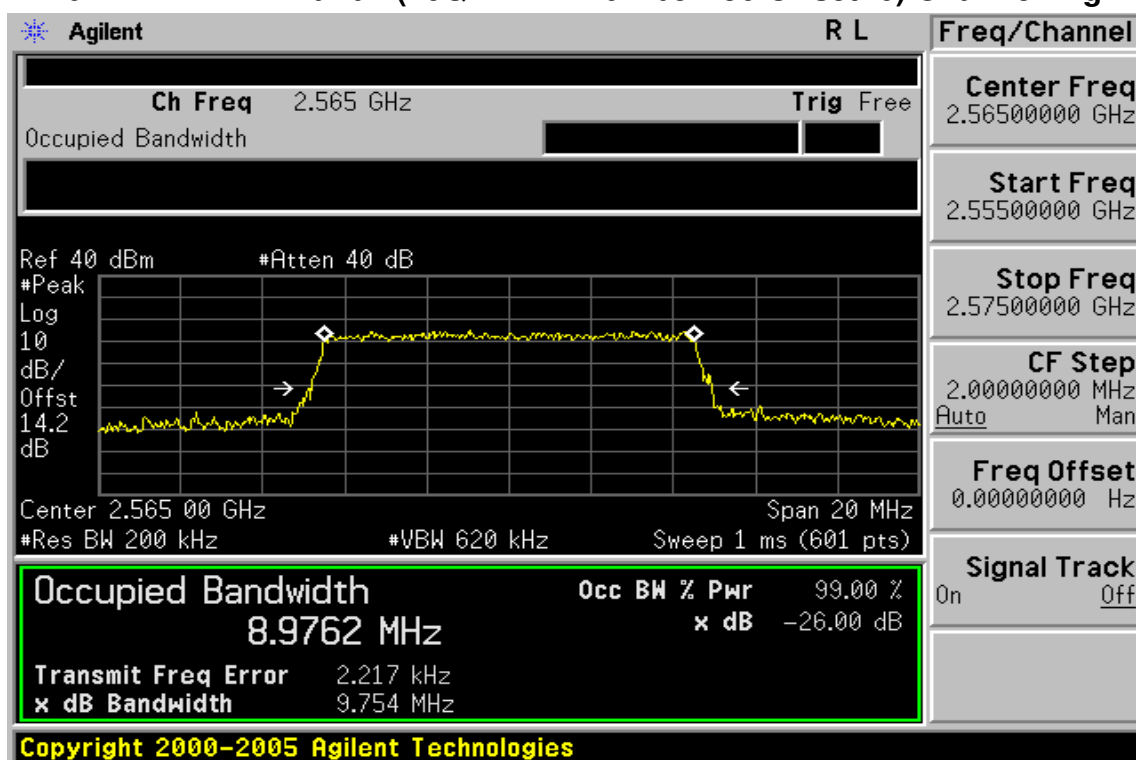
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10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 7(16QAM RB Number: 50 Offset: 0) Channel High



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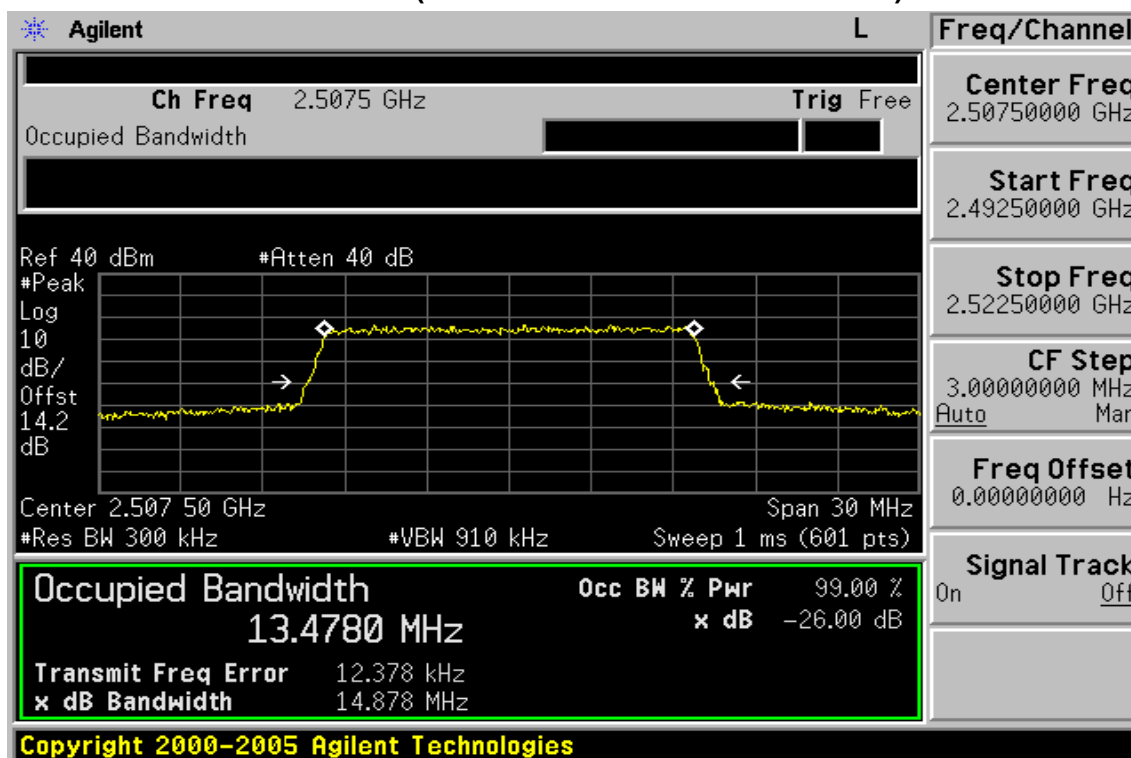
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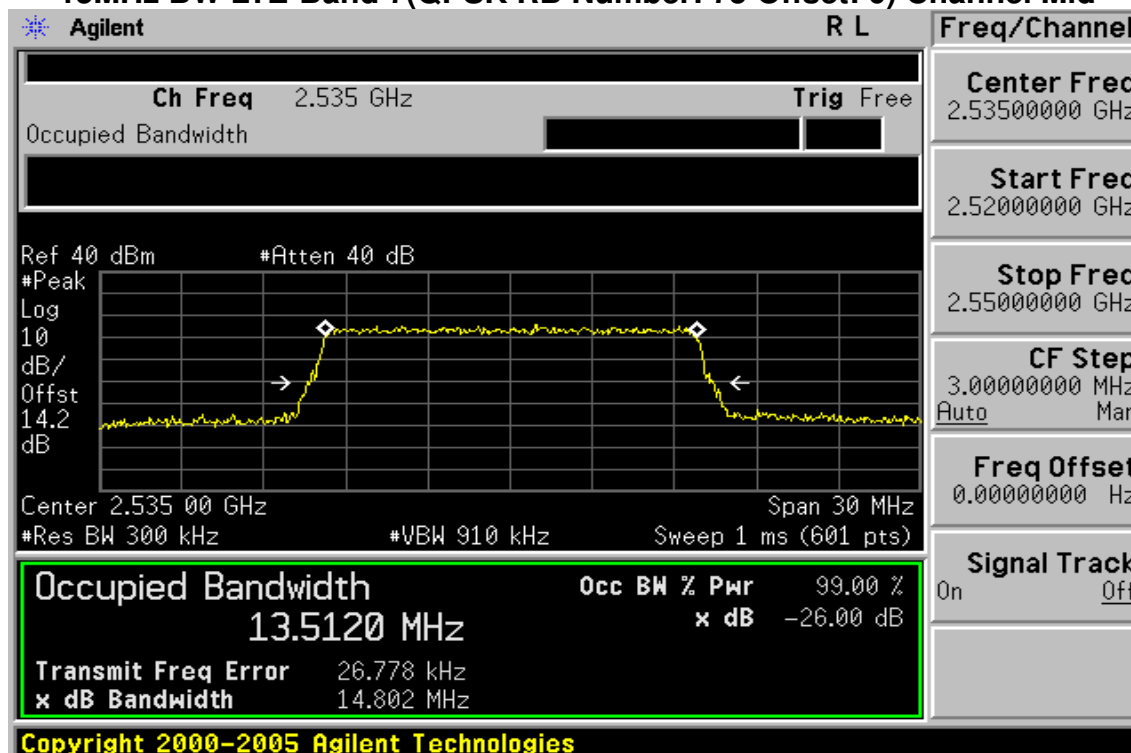
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15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel Mid



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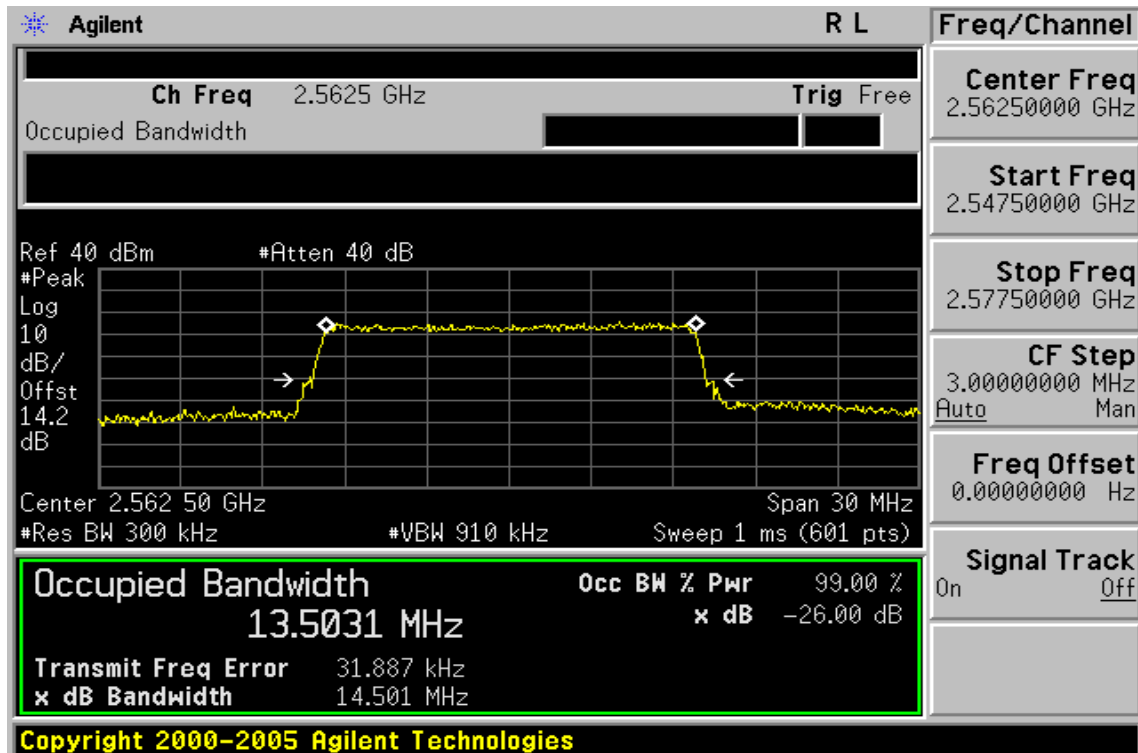
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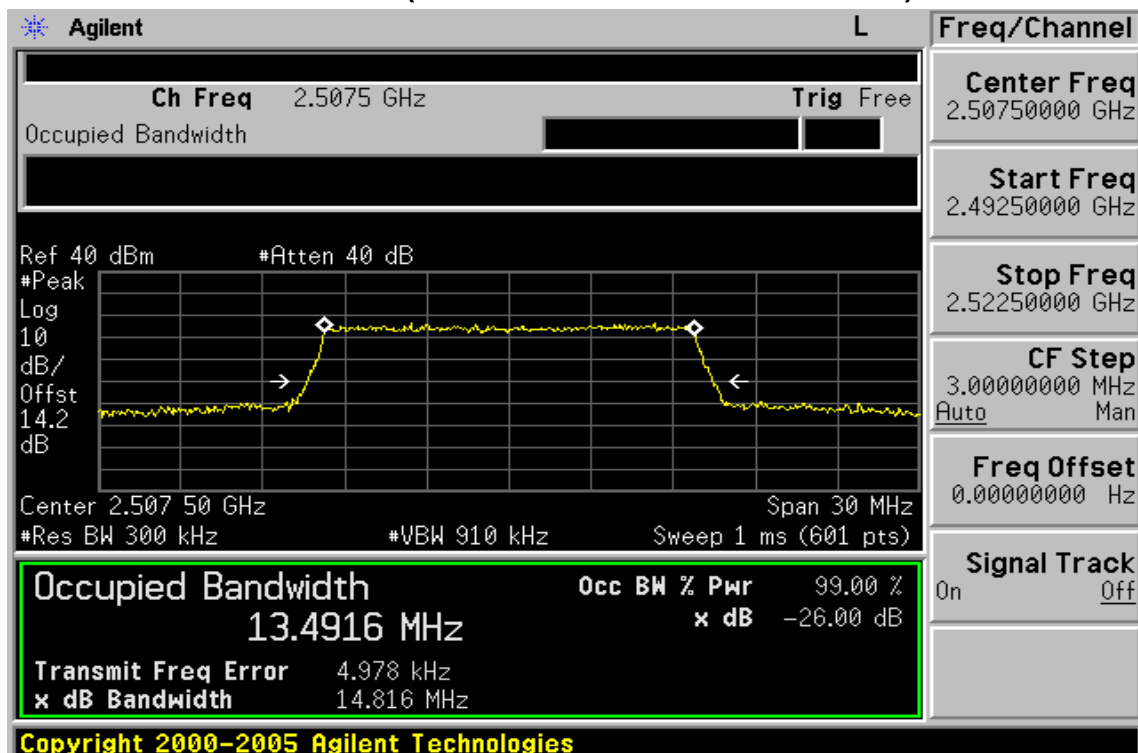
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15MHz BW LTE-Band 7(QPSK RB Number: 75 Offset: 0) Channel High



15MHz BW LTE-Band 7 (16QAM RB Number: 75 Offset: 0) Channel Low



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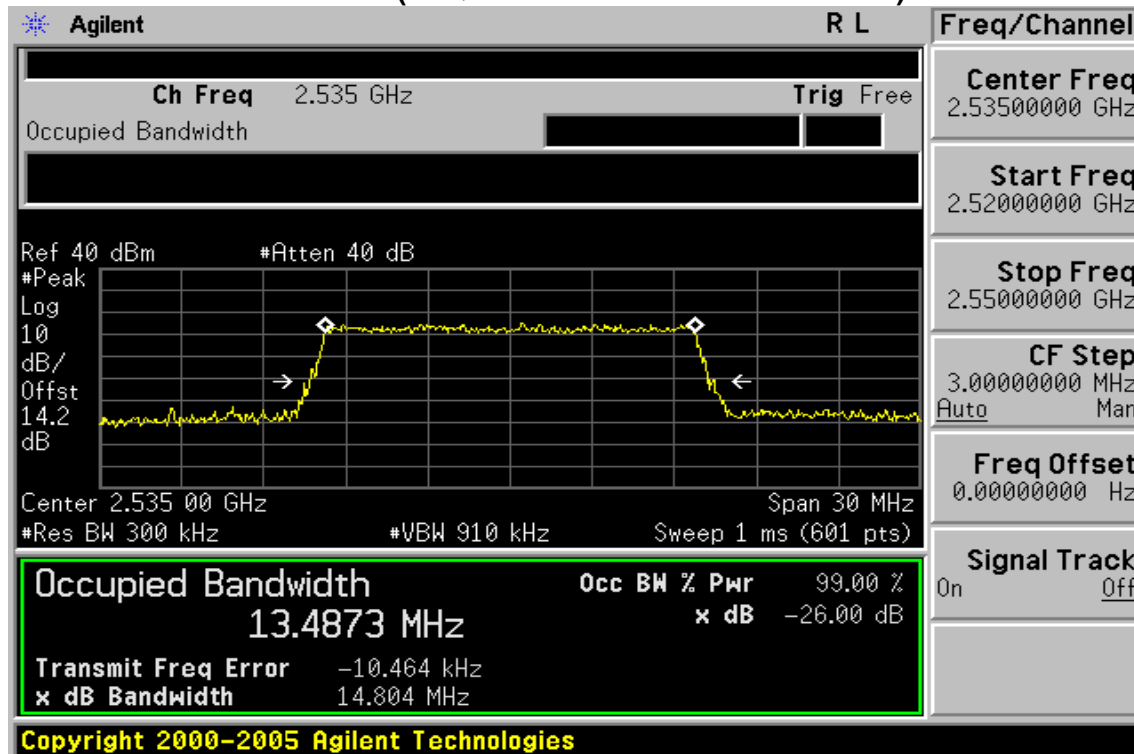
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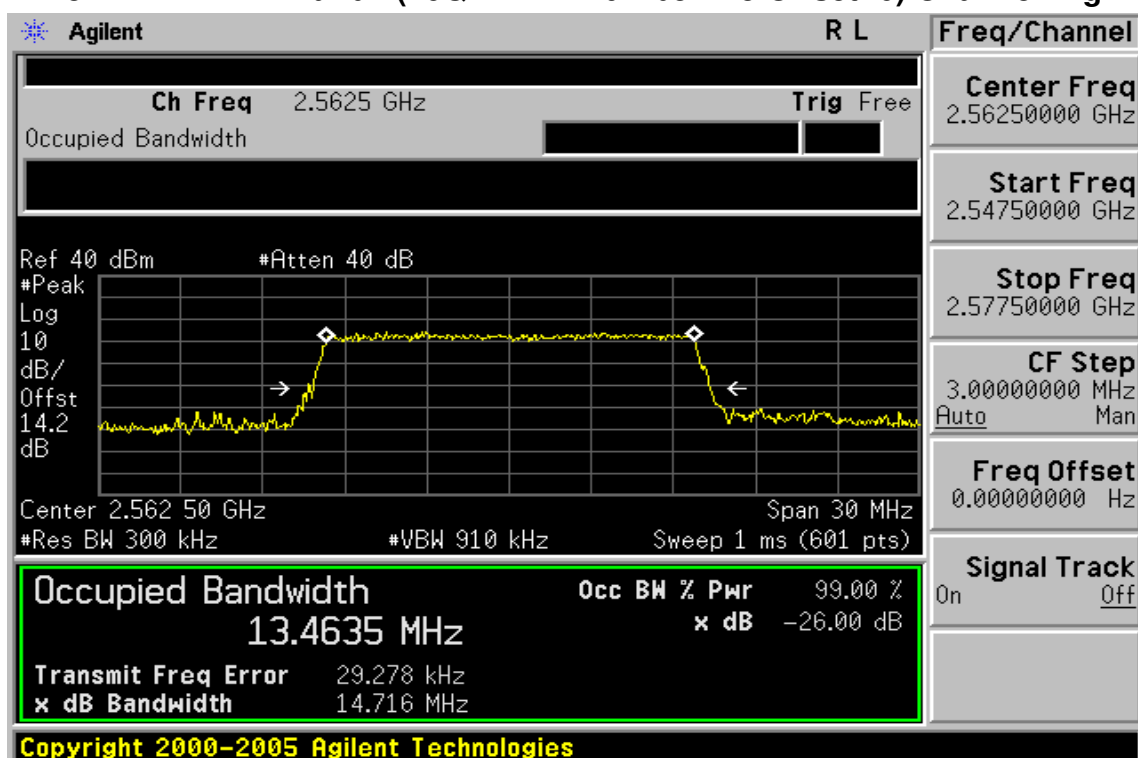
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15MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel Mid



15MHz BW LTE-Band 7(16QAM RB Number: 75 Offset: 0) Channel High



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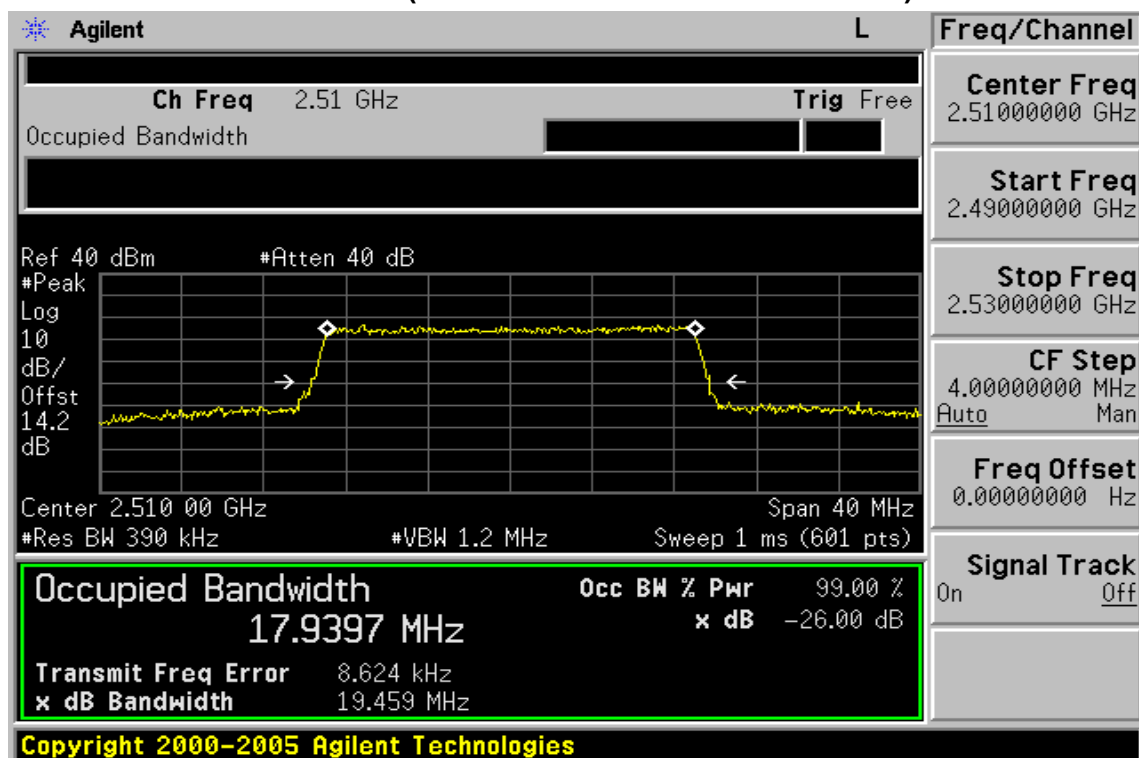
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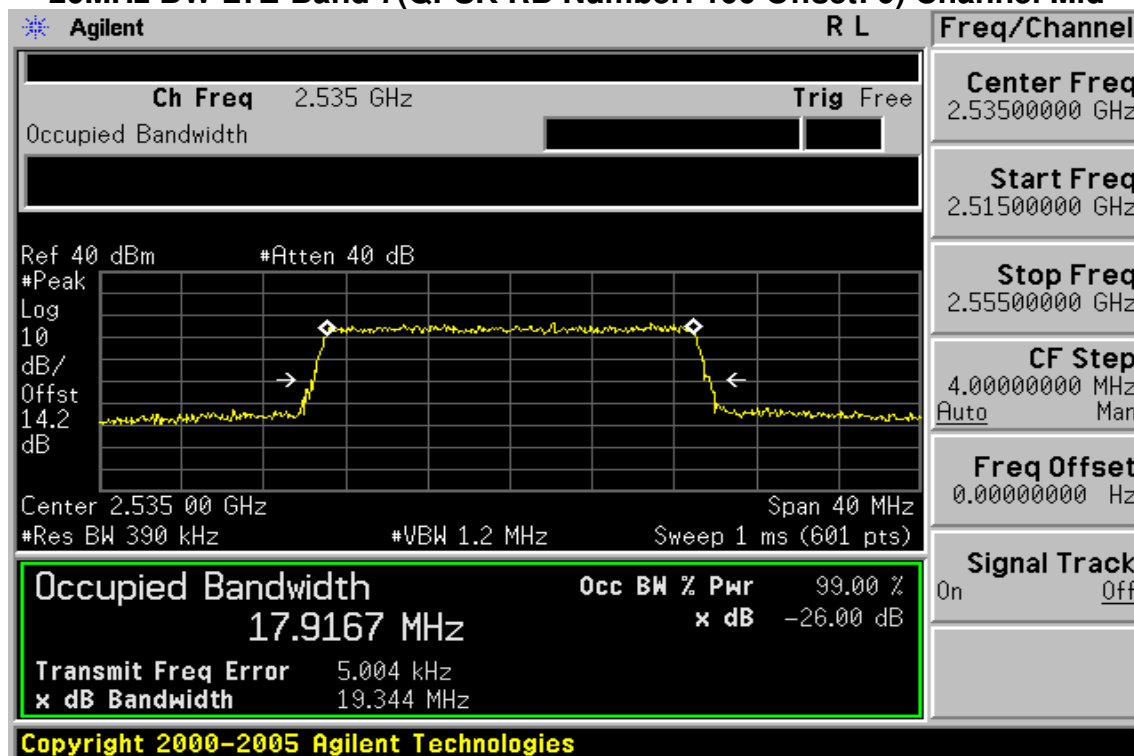
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20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Low



20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel Mid



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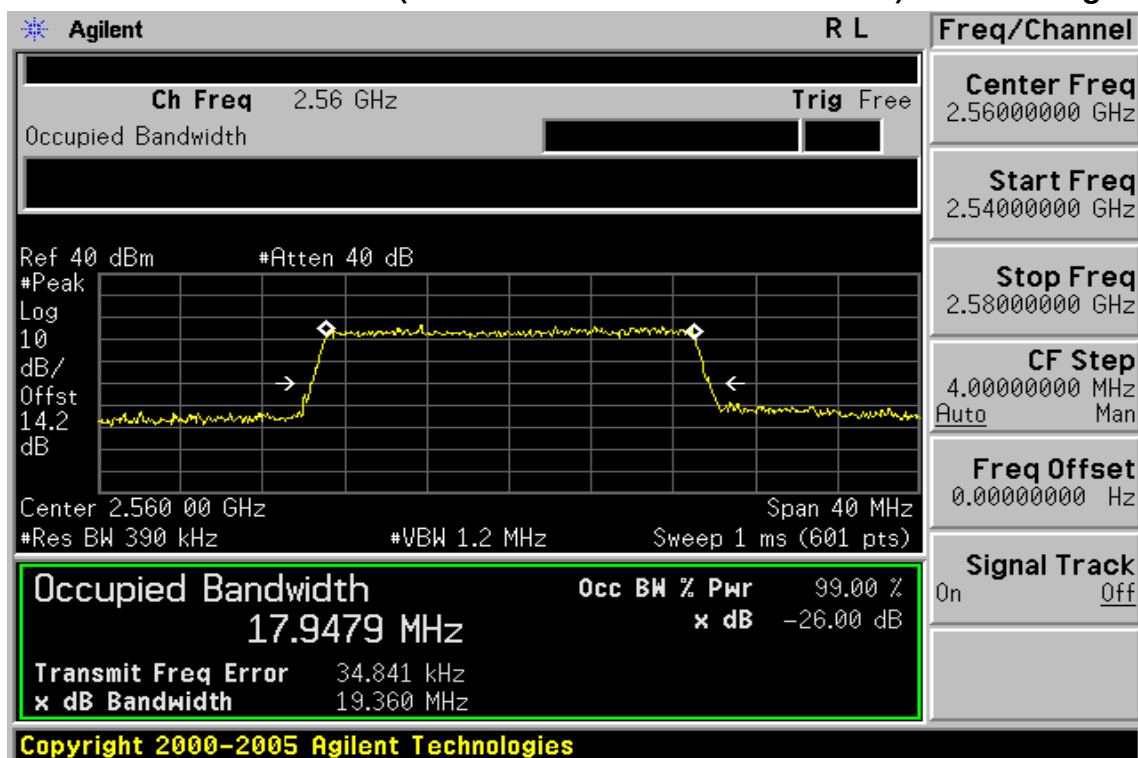
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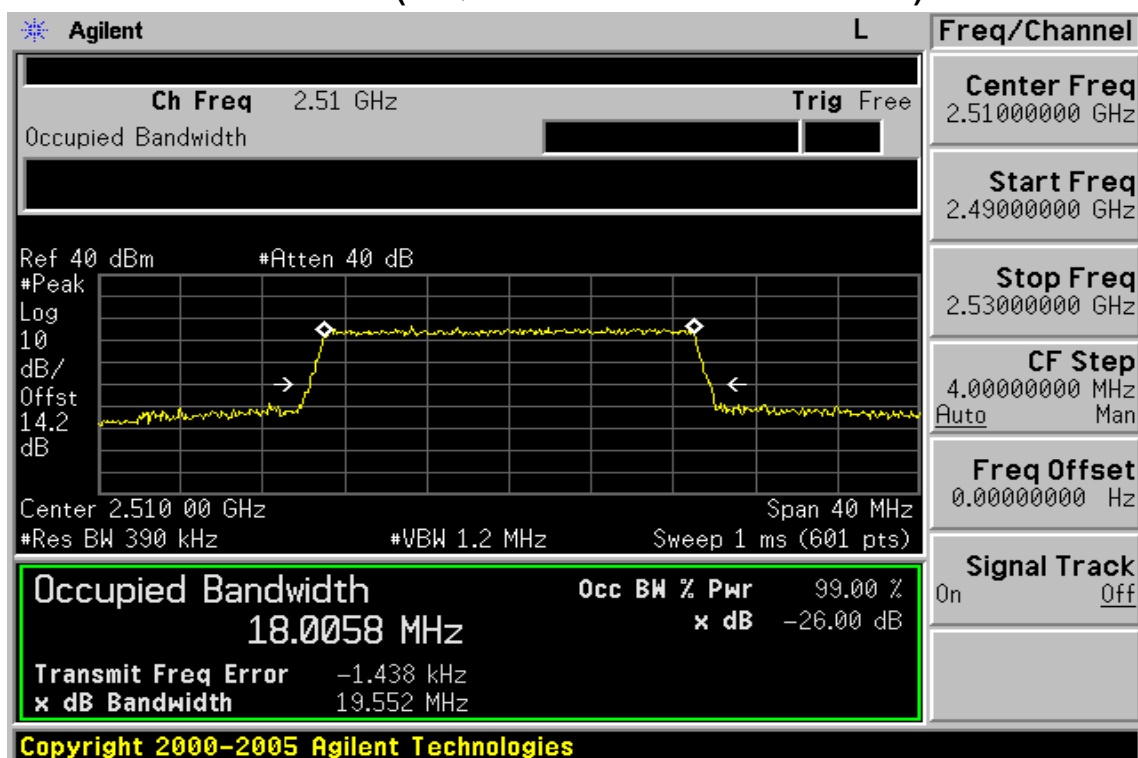
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20MHz BW LTE-Band 7(QPSK RB Number: 100 Offset: 0) Channel High



20MHz BW LTE-Band 7 (16QAM RB Number: 100 Offset: 0) Channel Low



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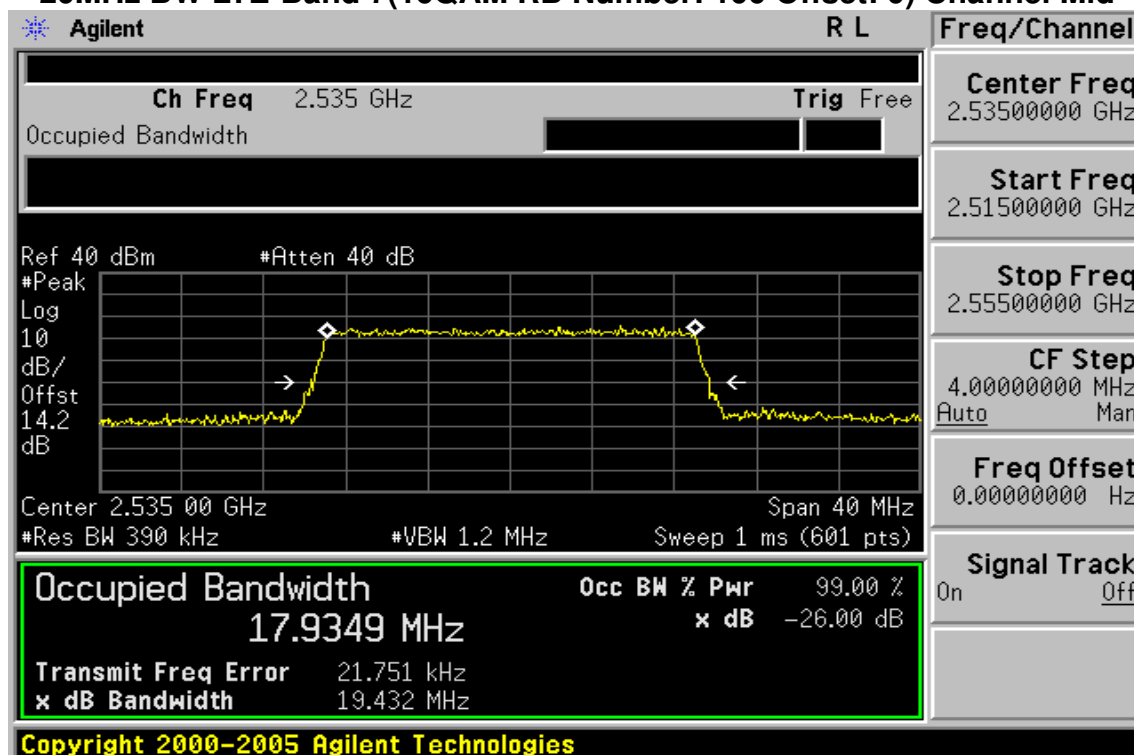
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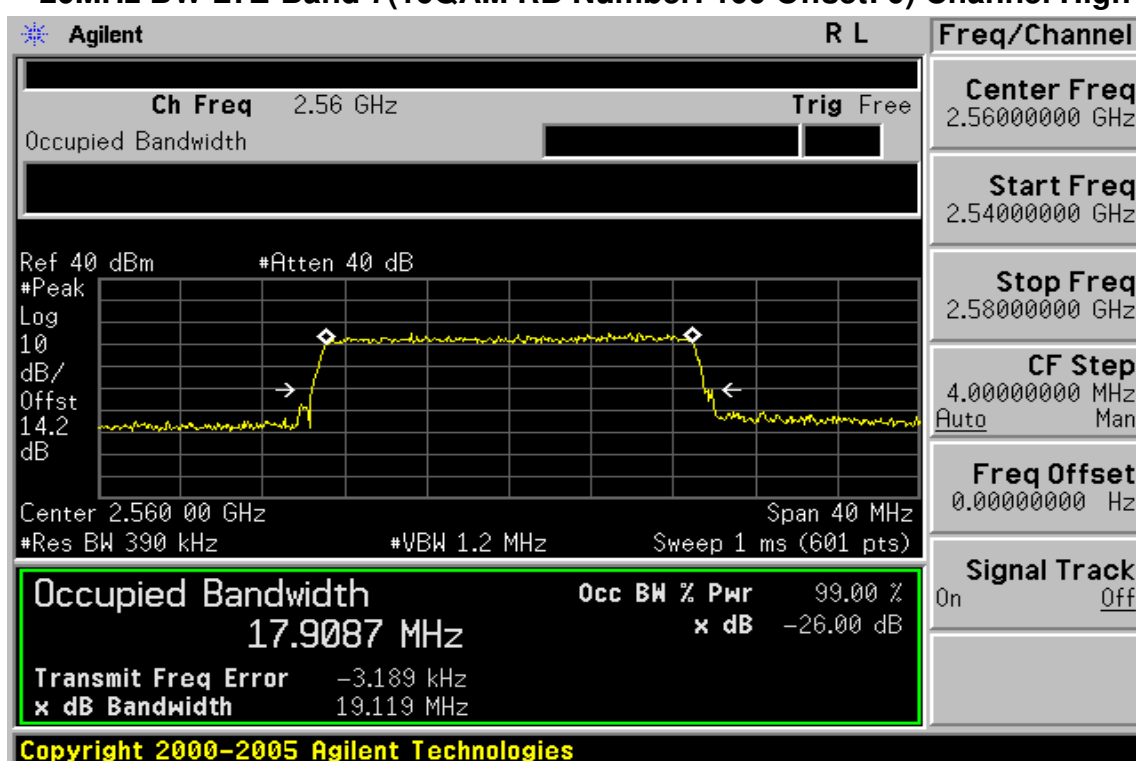
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20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel Mid



20MHz BW LTE-Band 7(16QAM RB Number: 100 Offset: 0) Channel High



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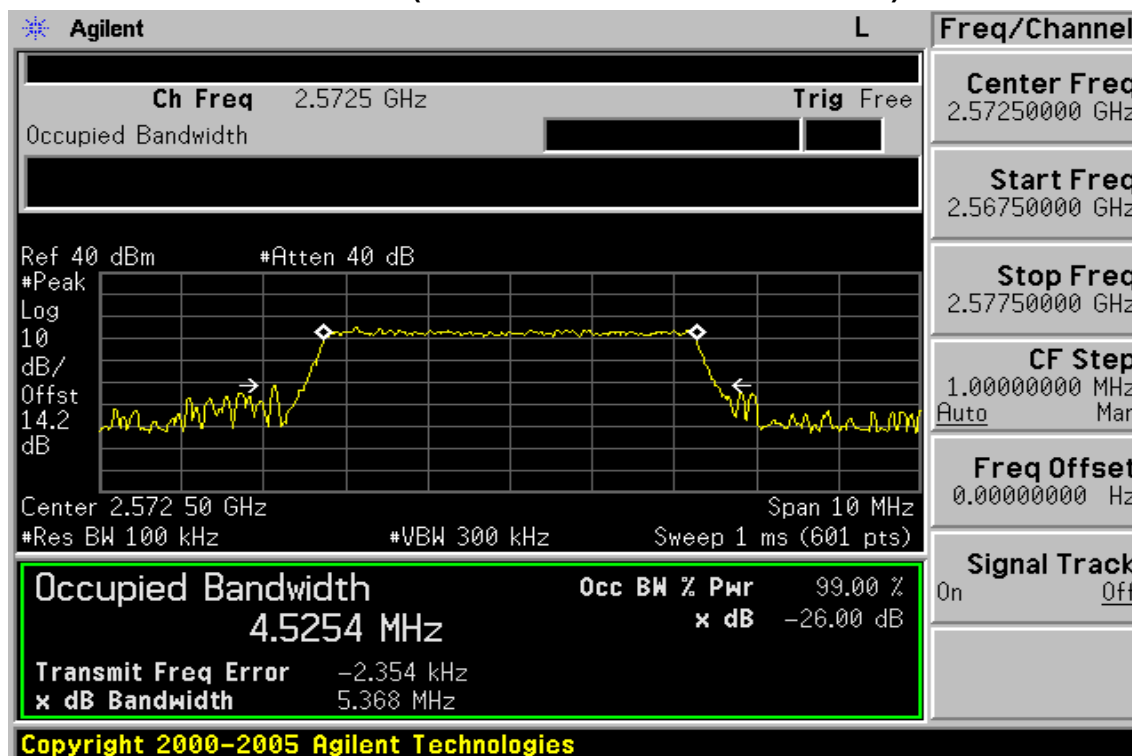
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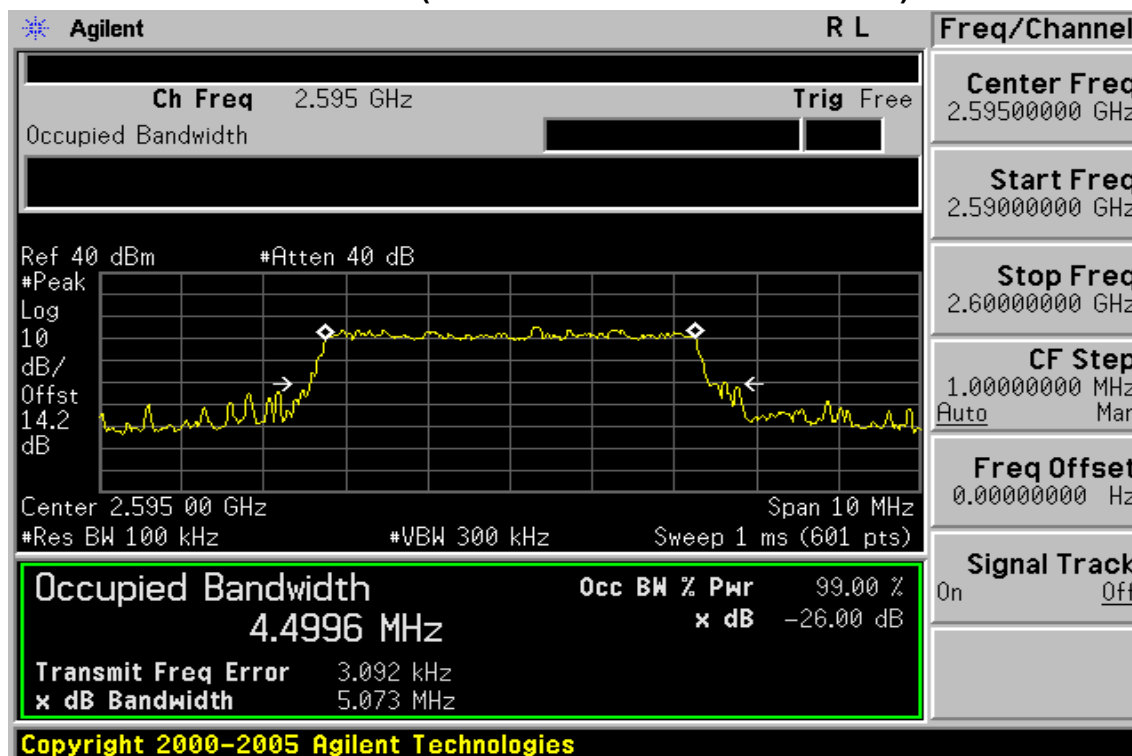
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5MHz BW LTE-Band 38(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 38(QPSK RB Number: 25 Offset: 0) Channel Mid



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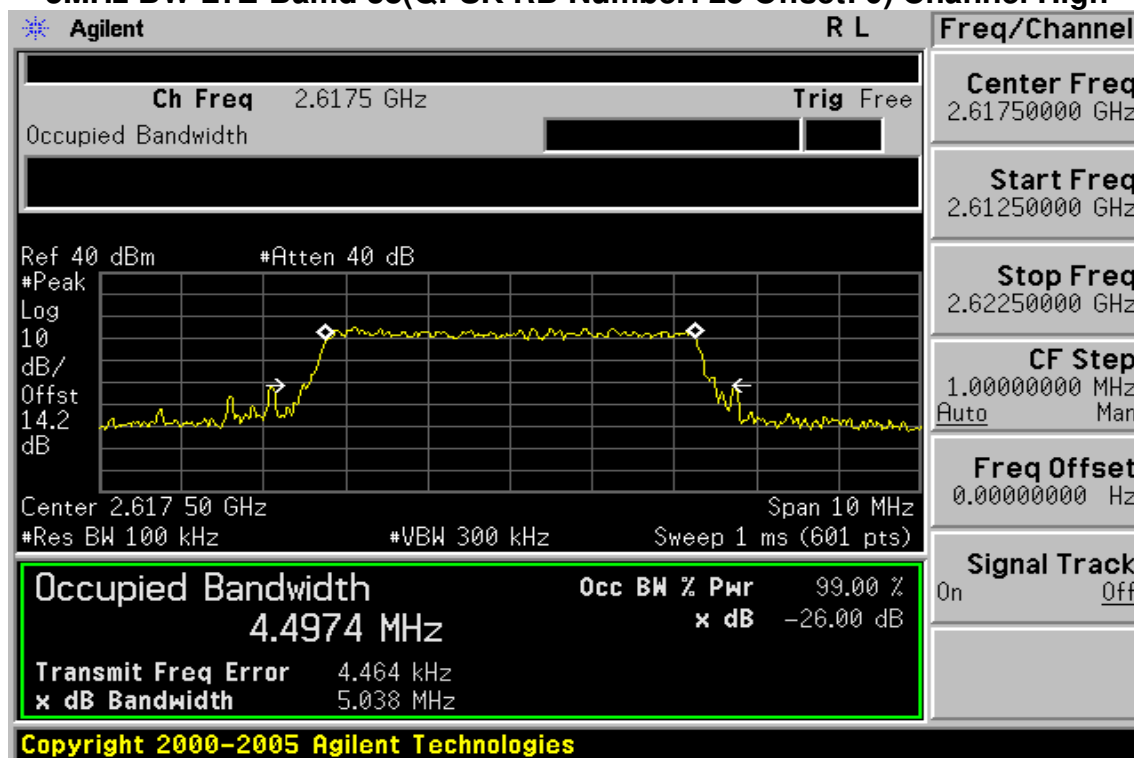
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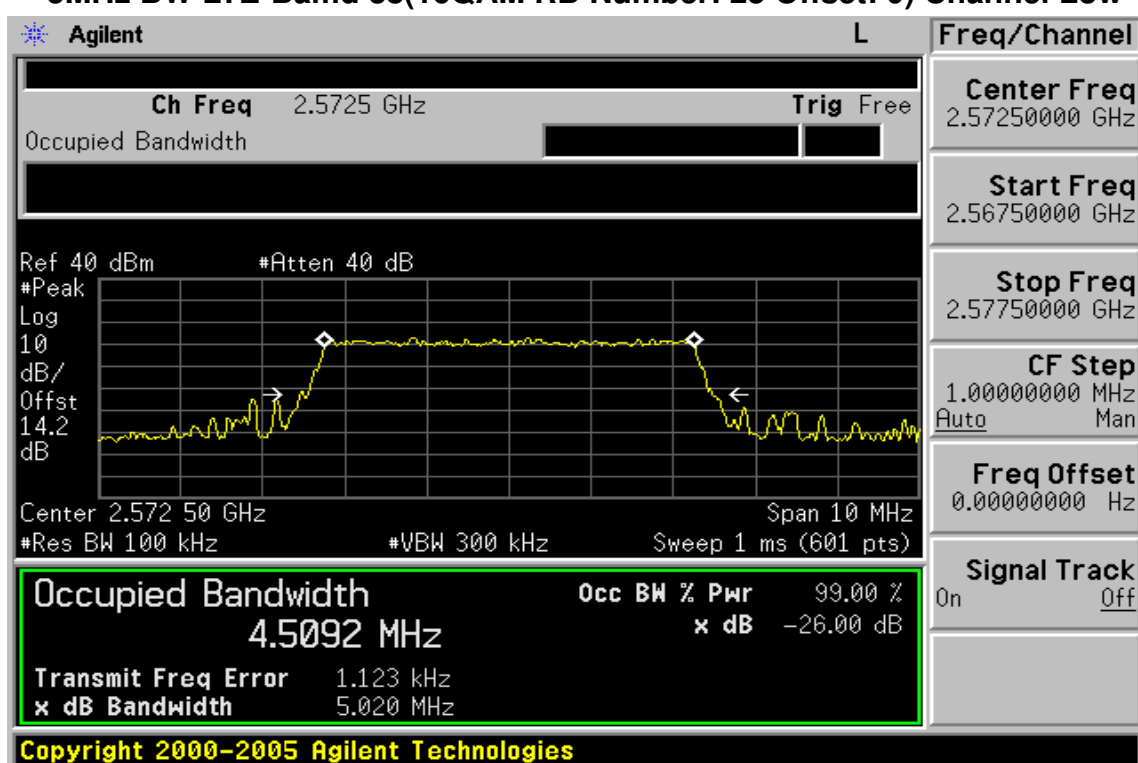
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5MHz BW LTE-Band 38(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 38(16QAM RB Number: 25 Offset: 0) Channel Low



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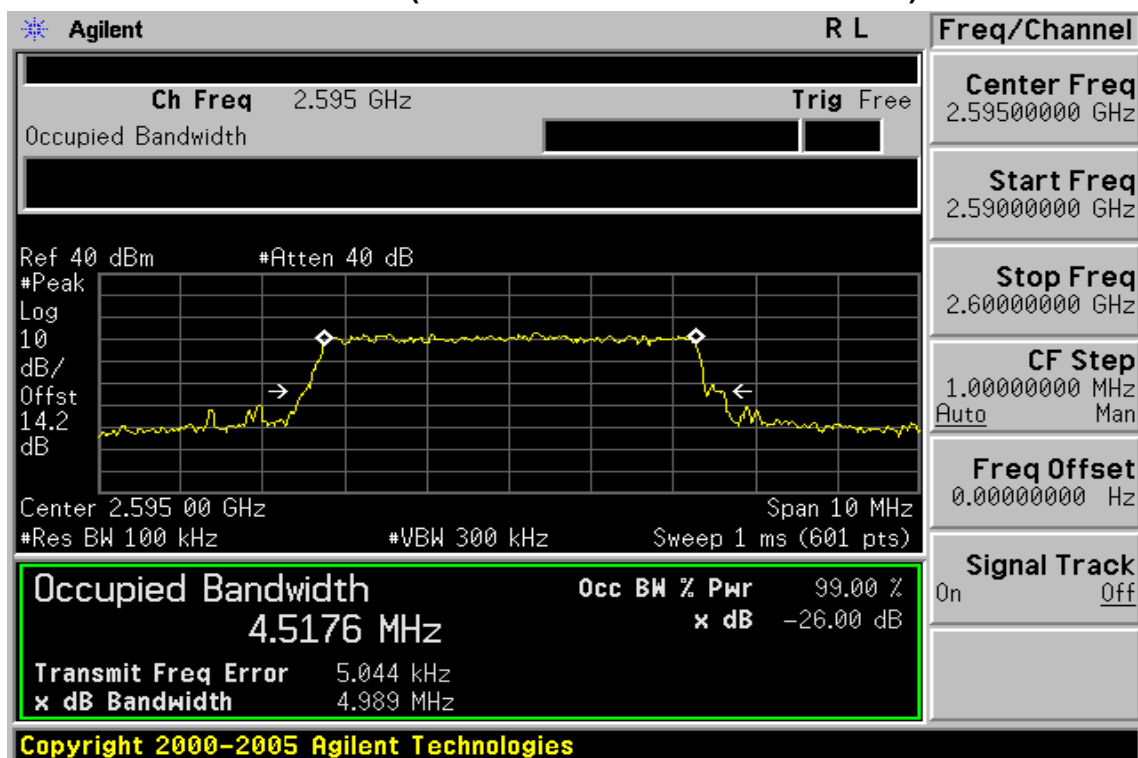
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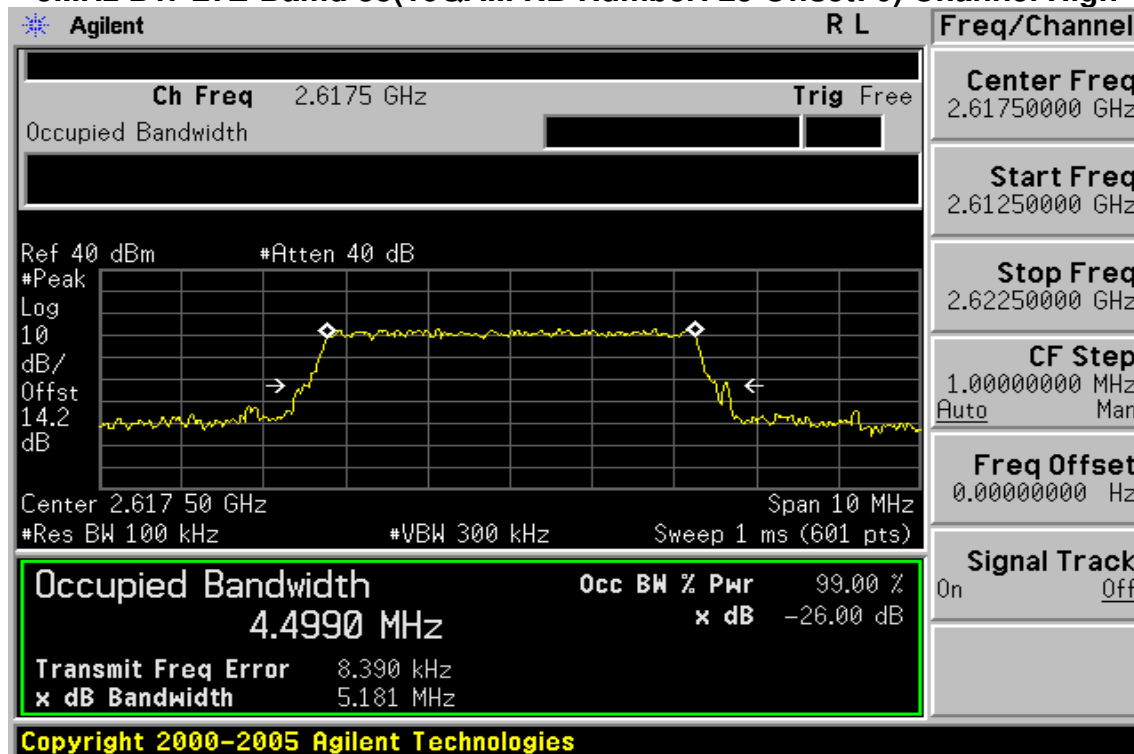
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5MHz BW LTE-Band 38(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 38(16QAM RB Number: 25 Offset: 0) Channel High



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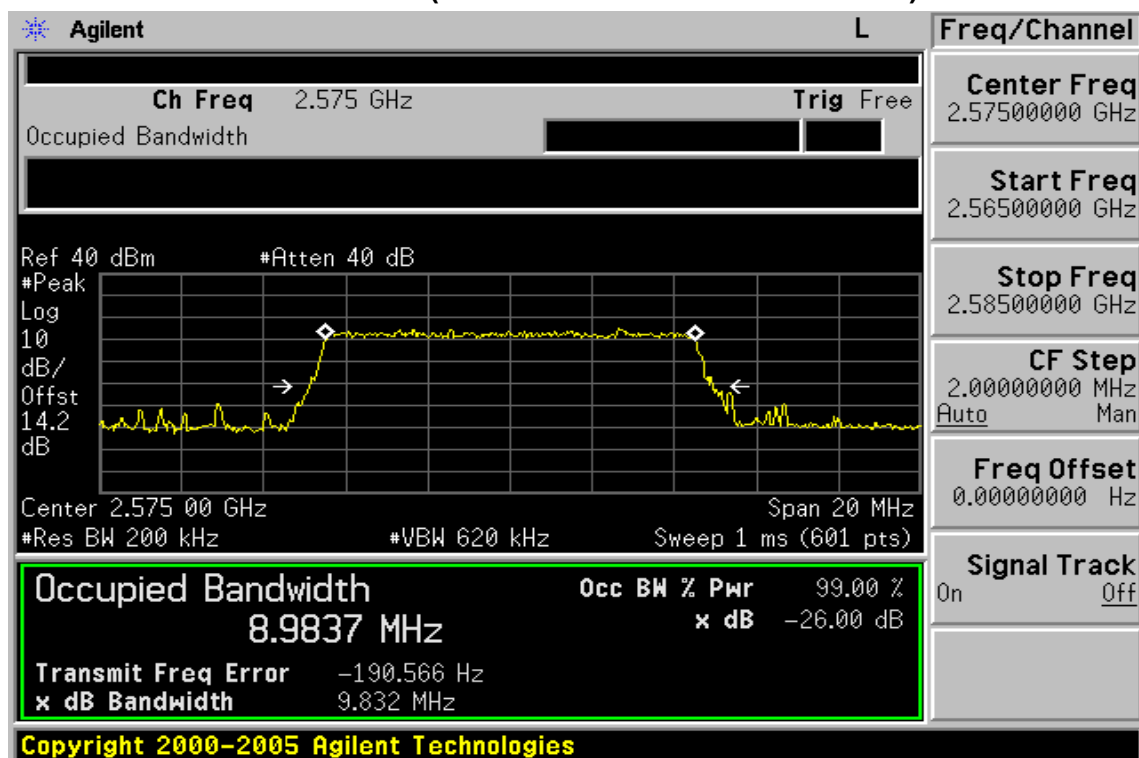
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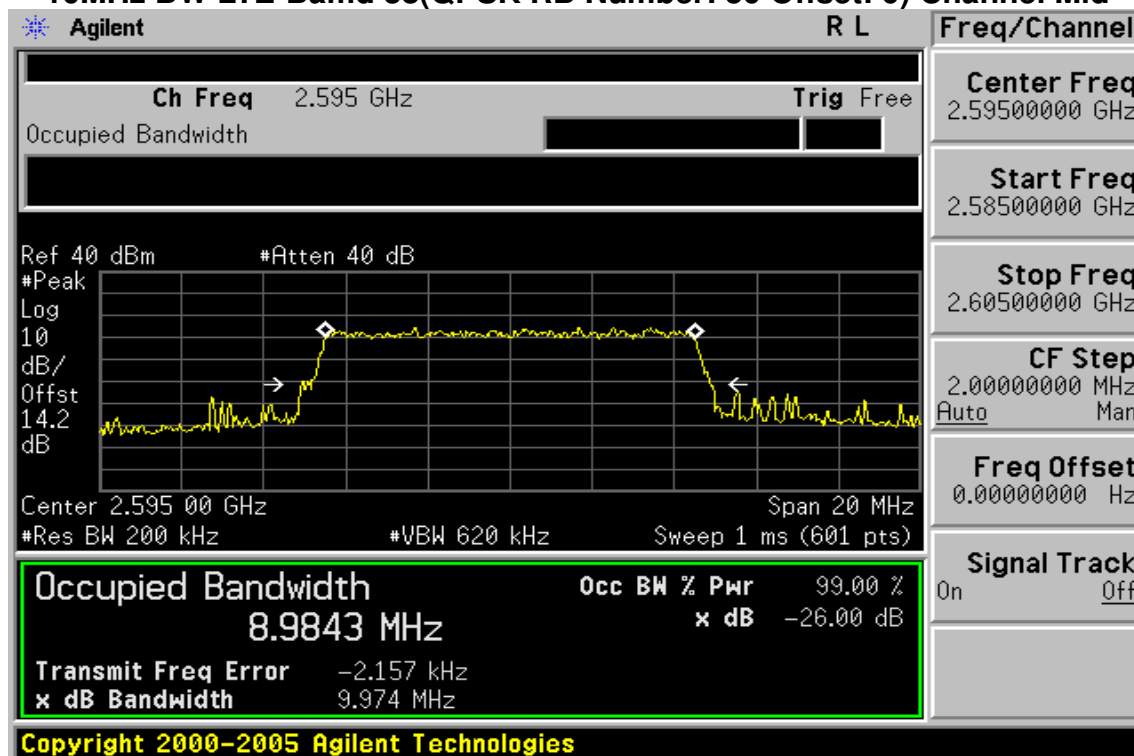
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10MHz BW LTE-Bamd 38 (QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Bamd 38(QPSK RB Number: 50 Offset: 0) Channel Mid



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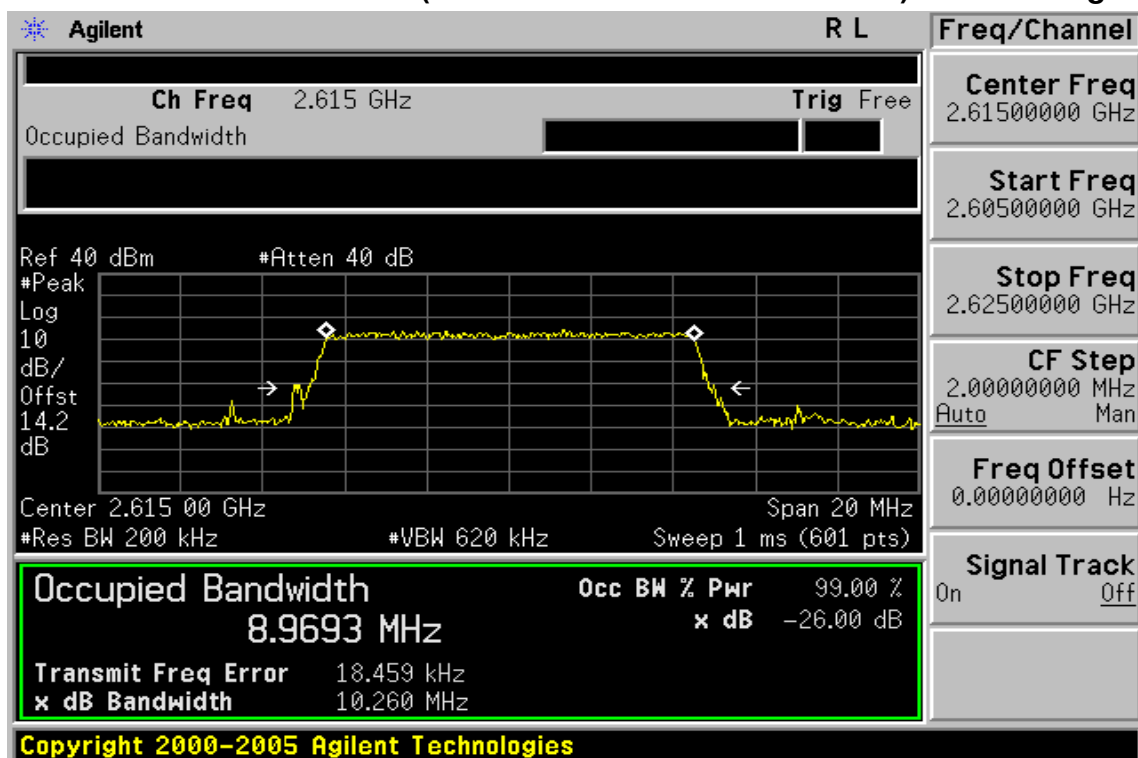
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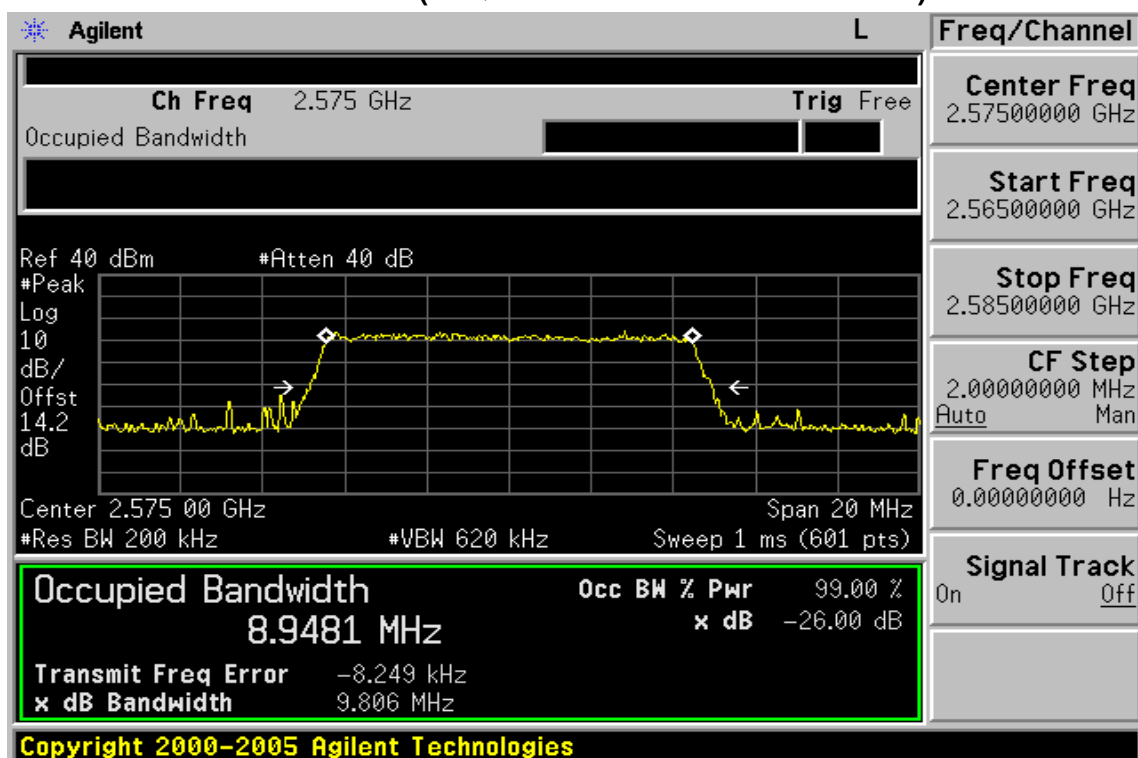
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10MHz BW LTE-Bamd 38(QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Bamd 38 (16QAM RB Number: 50 Offset: 0) Channel Low



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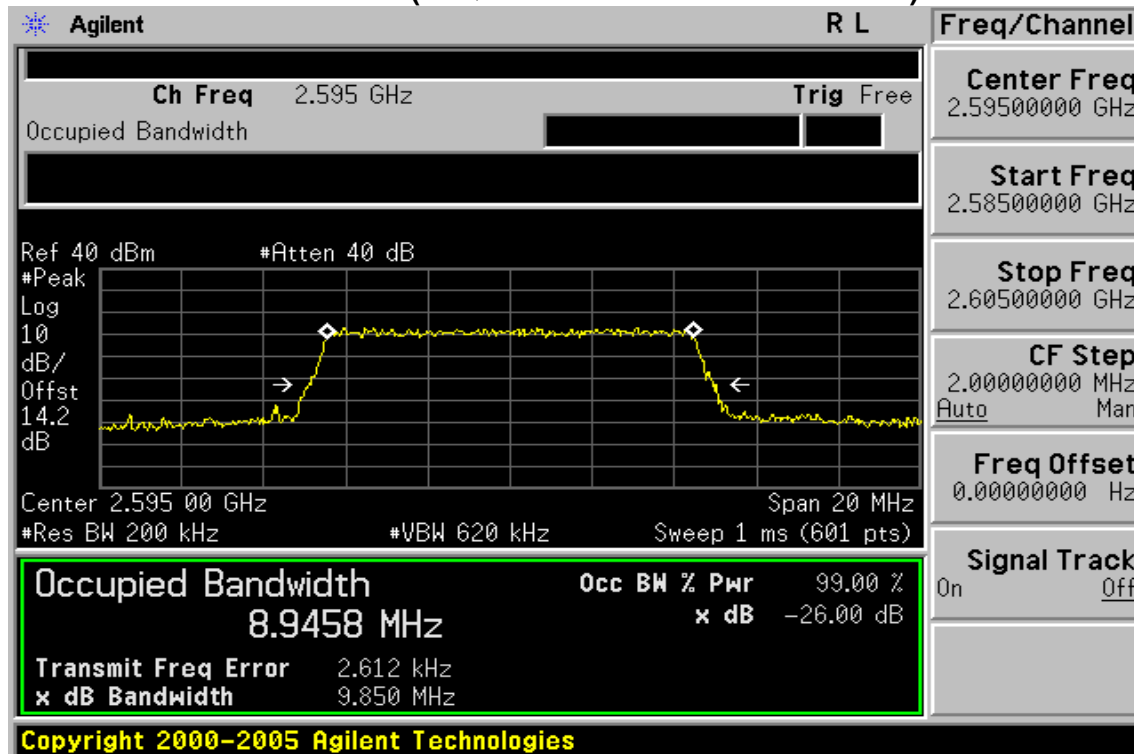
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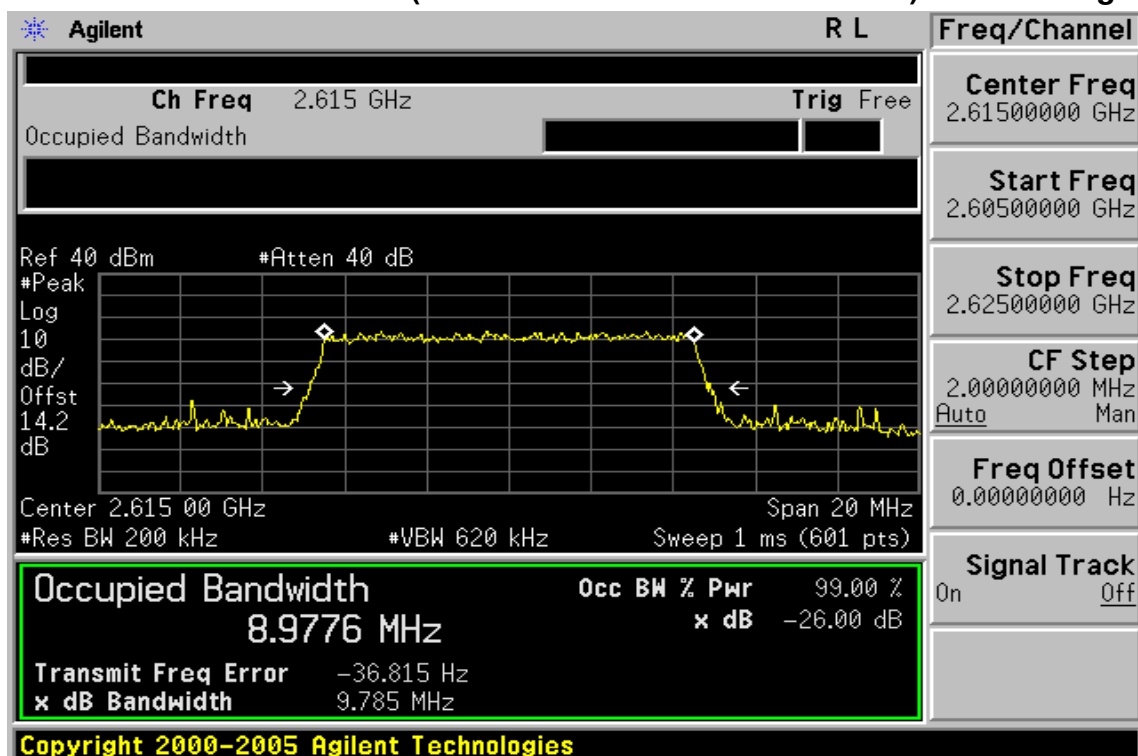
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10MHz BW LTE-Bamd 38(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Bamd 38(16QAM RB Number: 50 Offset: 0) Channel High



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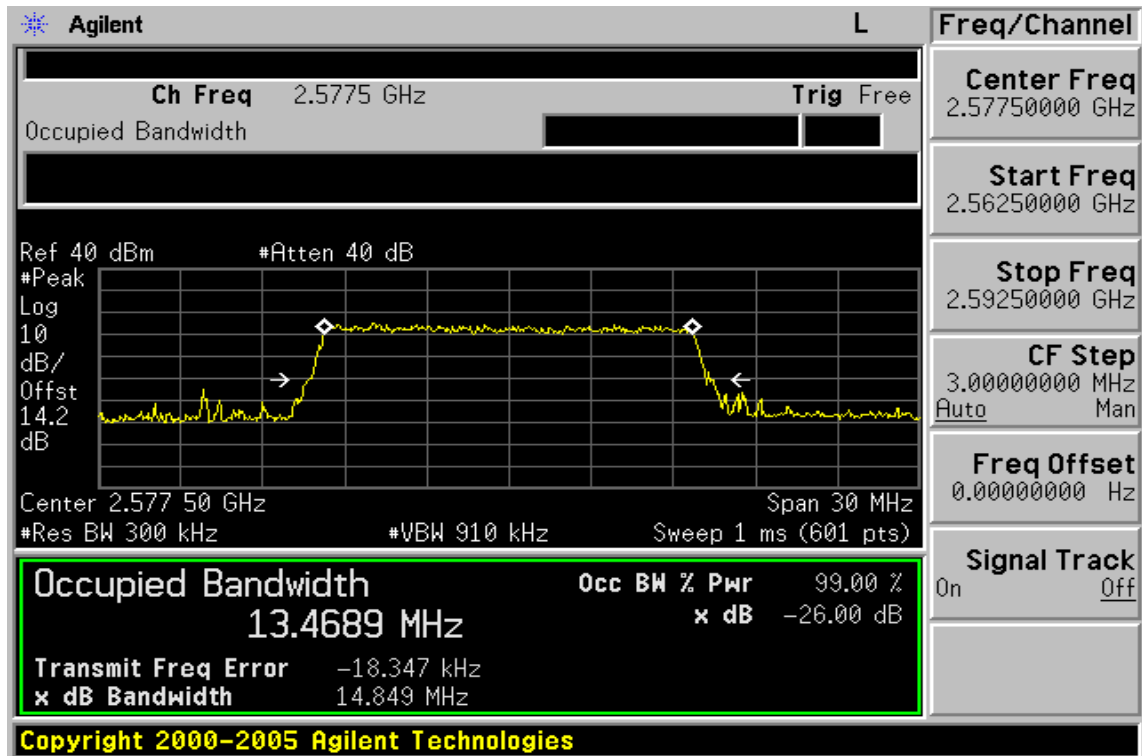
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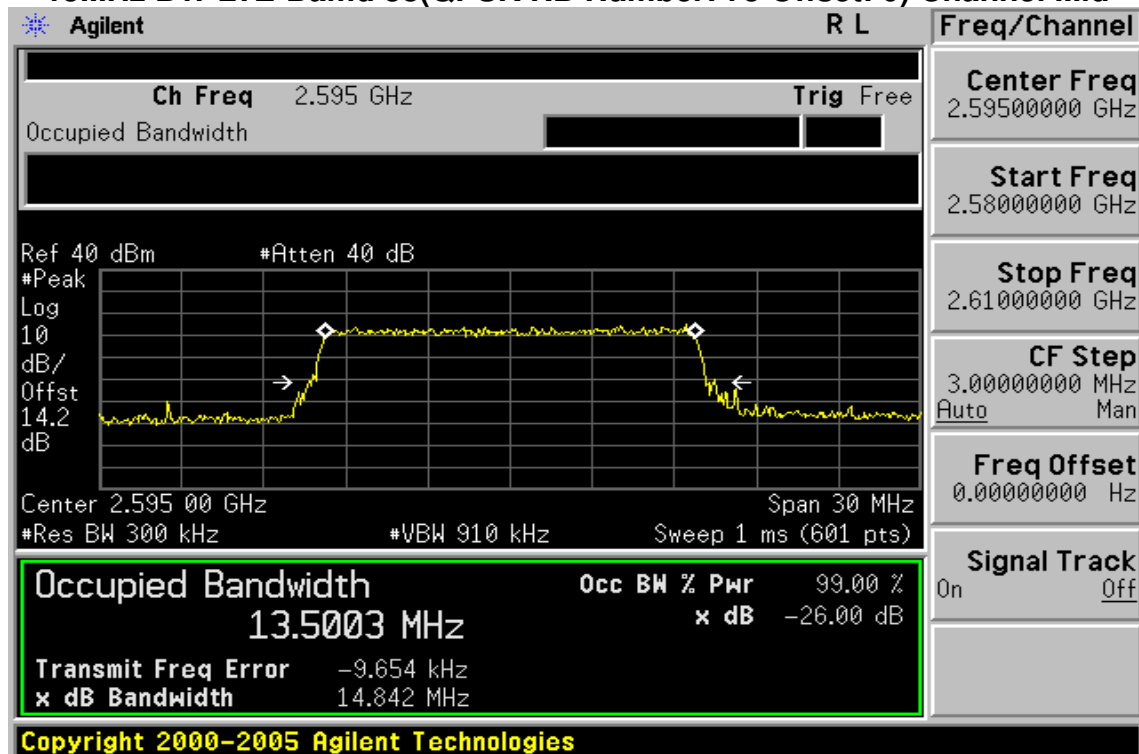
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15MHz BW LTE-Bamd 38 (QPSK RB Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Bamd 38(QPSK RB Number: 75 Offset: 0) Channel Mid



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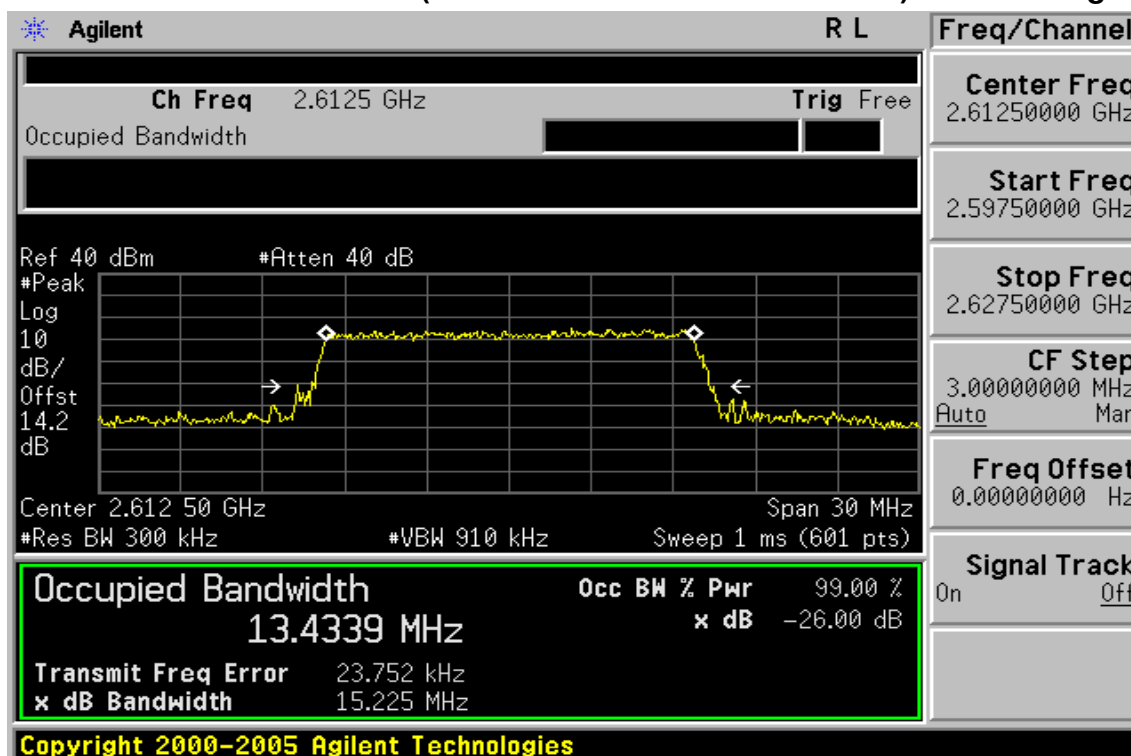
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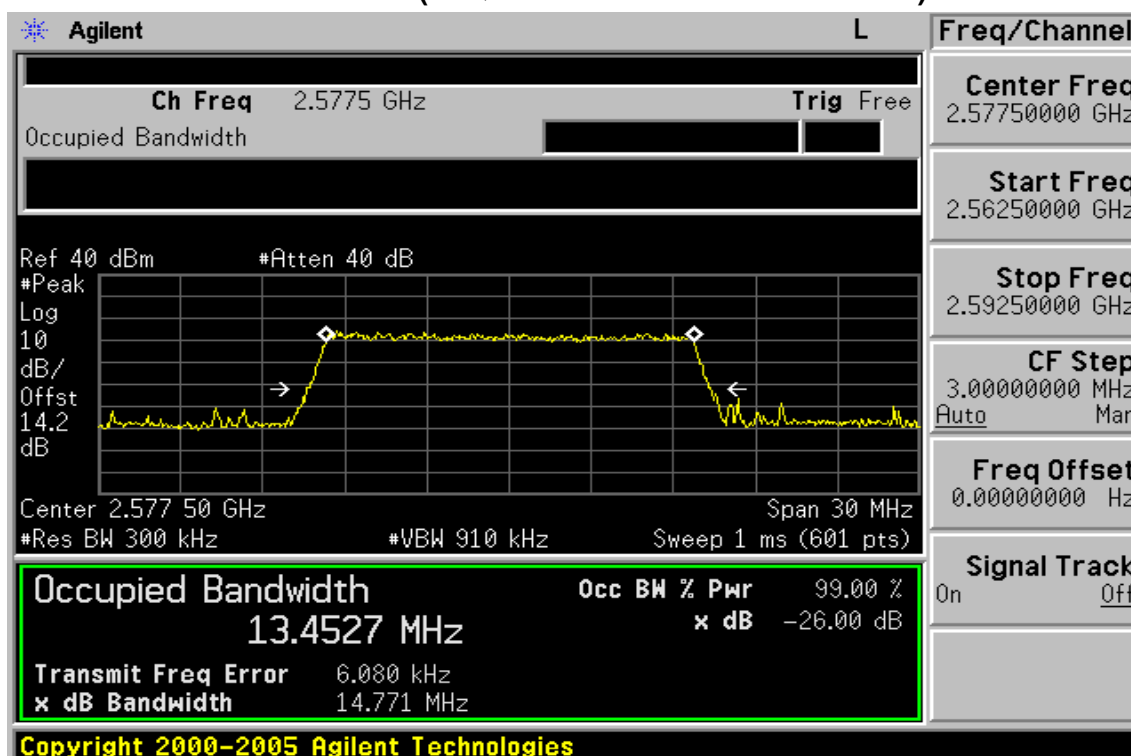
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15MHz BW LTE-Band 38(QPSK RB Number: 75 Offset: 0) Channel High



15MHz BW LTE-Band 38 (16QAM RB Number: 75 Offset: 0) Channel Low



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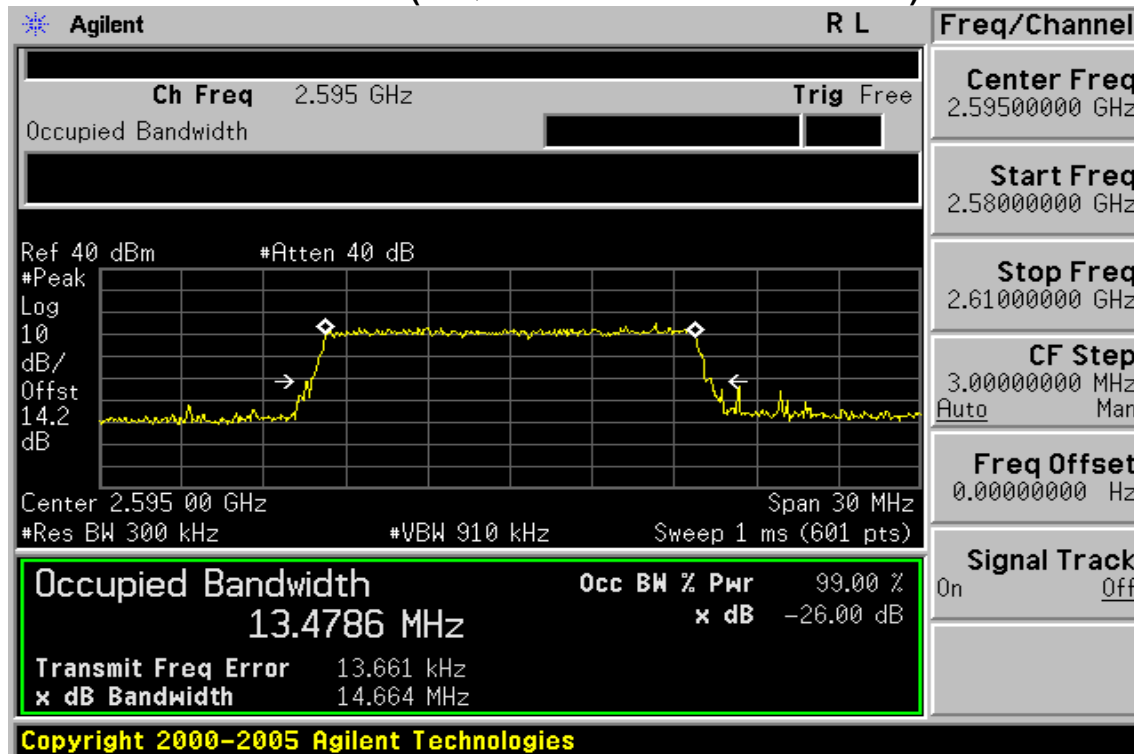
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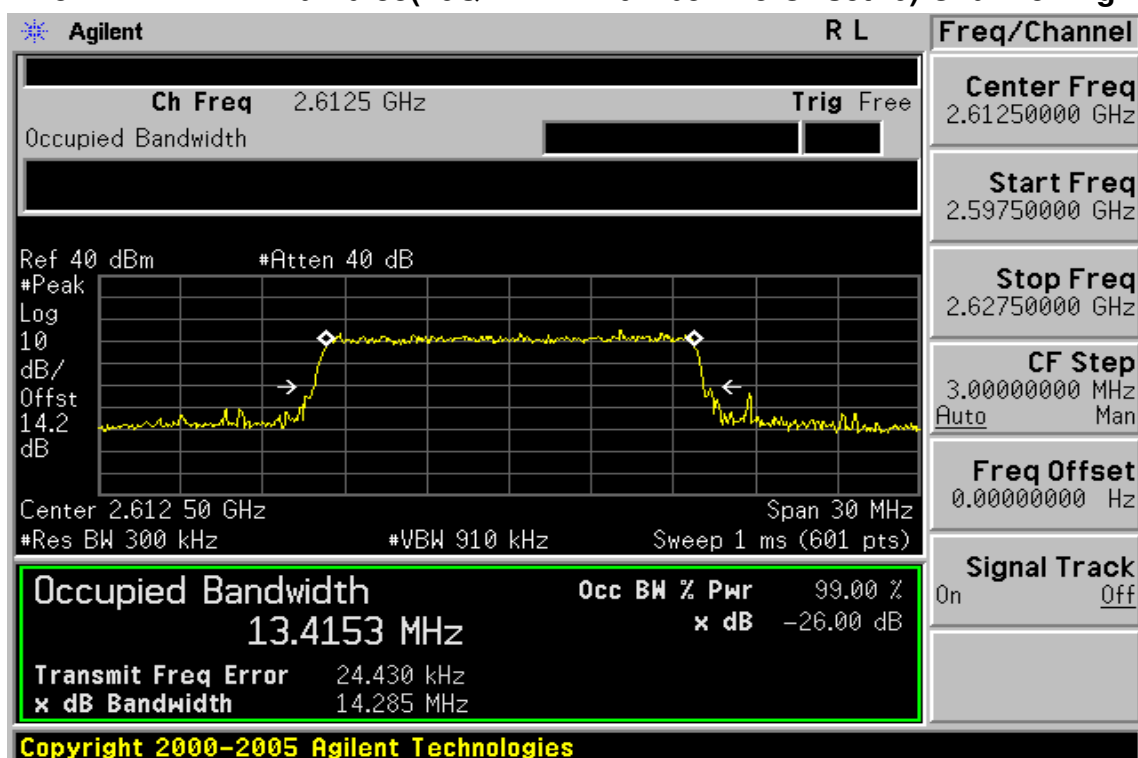
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15MHz BW LTE-Bamd 38(16QAM RB Number: 75 Offset: 0) Channel Mid



15MHz BW LTE-Bamd 38(16QAM RB Number: 75 Offset: 0) Channel High



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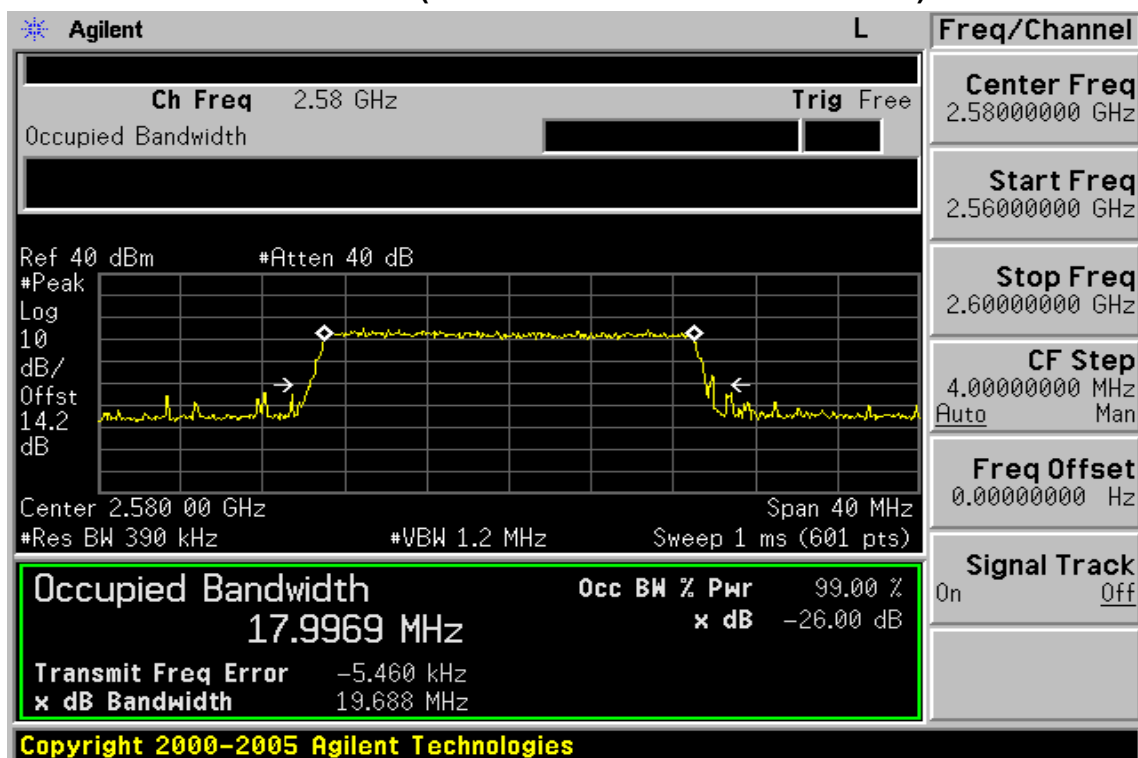
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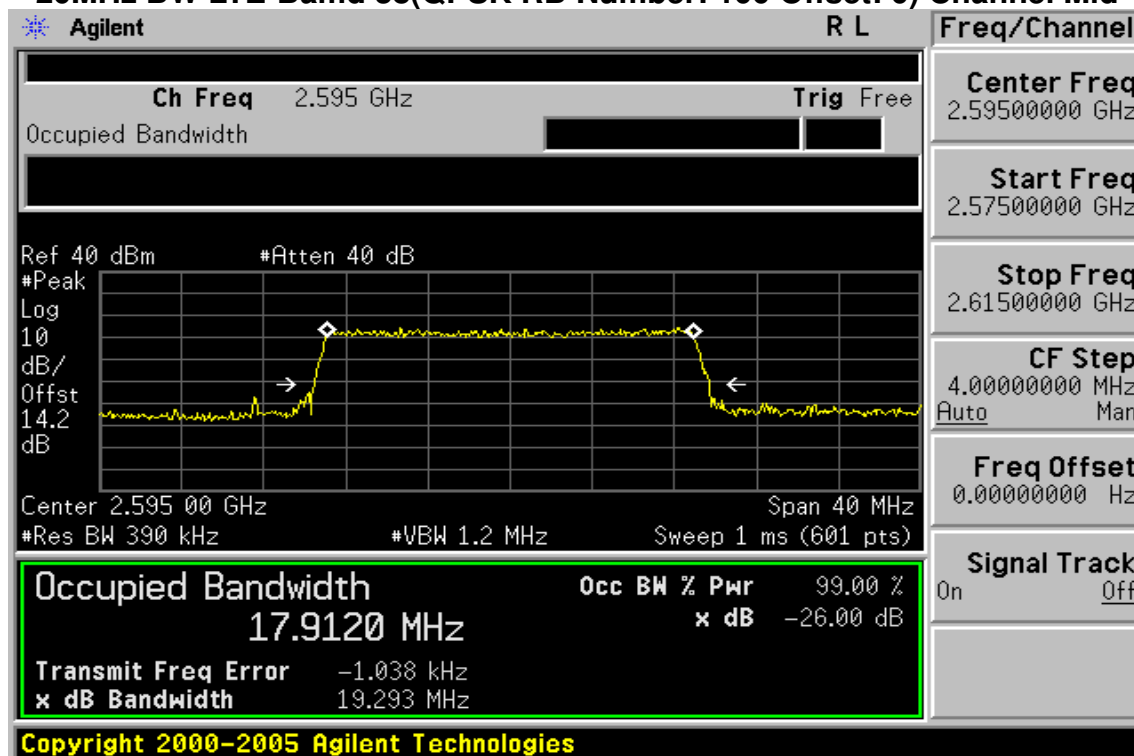
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20MHz BW LTE-Band 38 (QPSK RB Number: 100 Offset: 0) Channel Low



20MHz BW LTE-Band 38(QPSK RB Number: 100 Offset: 0) Channel Mid



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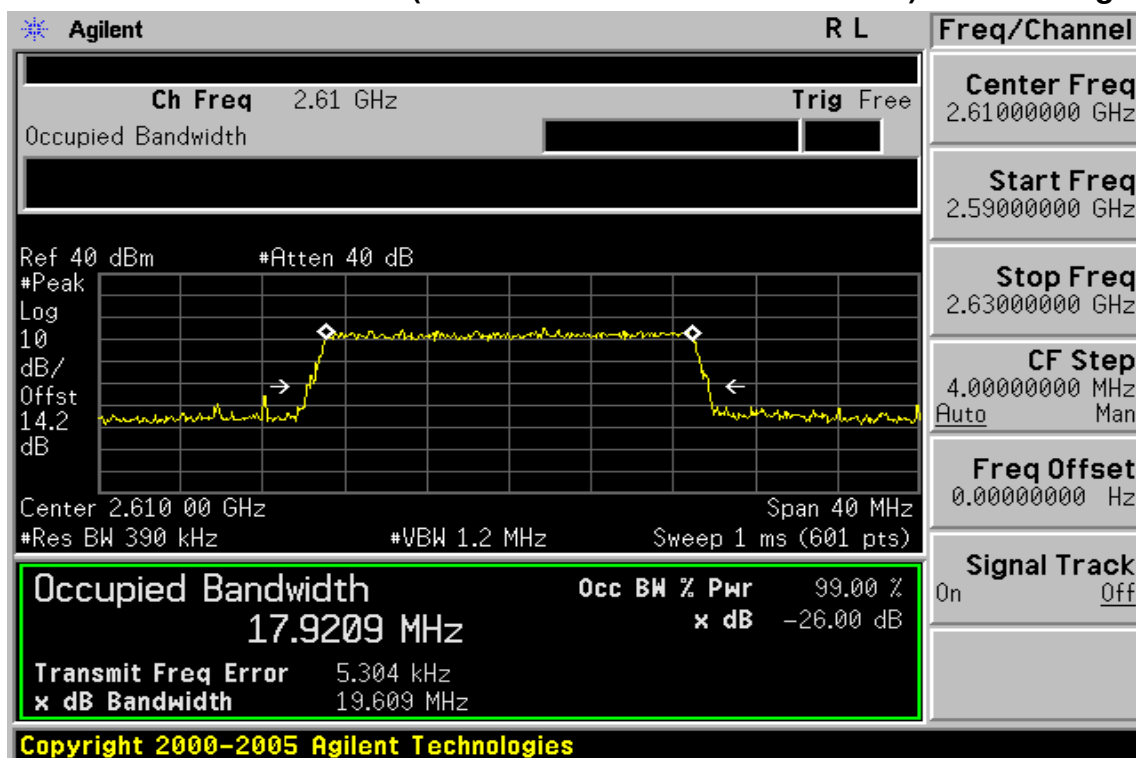
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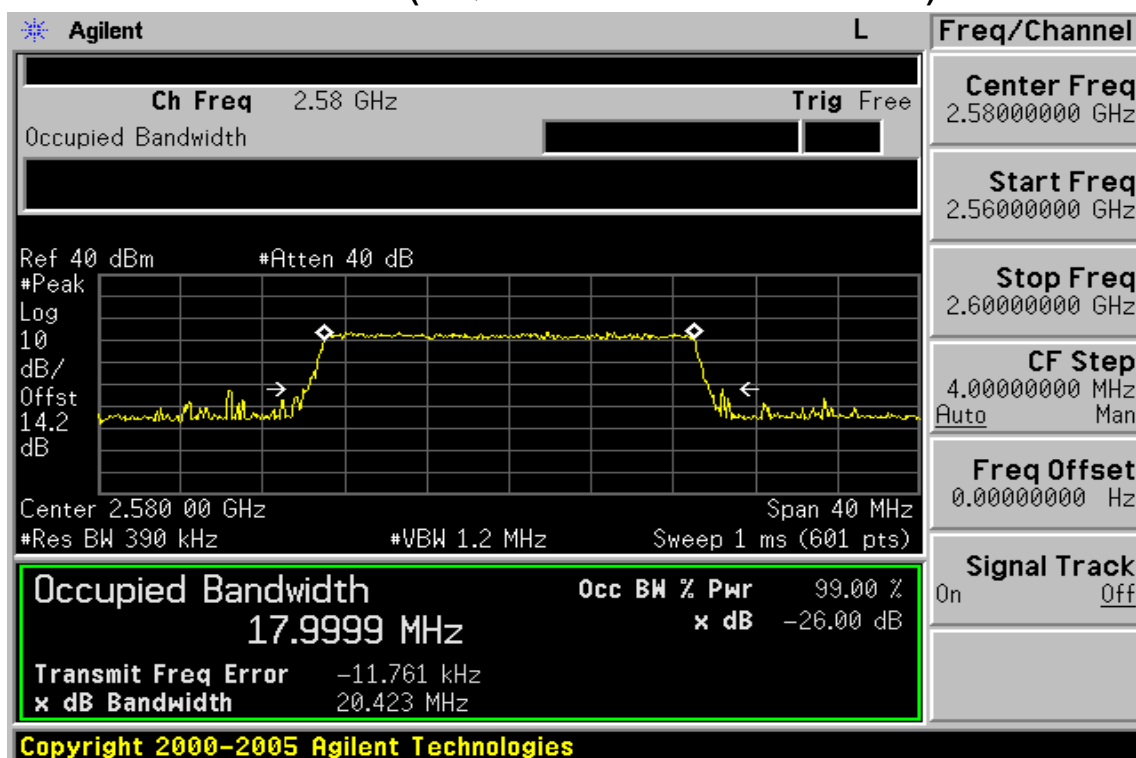
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20MHz BW LTE-Band 38(QPSK RB Number: 100 Offset: 0) Channel High



20MHz BW LTE-Band 38 (16QAM RB Number: 100 Offset: 0) Channel Low



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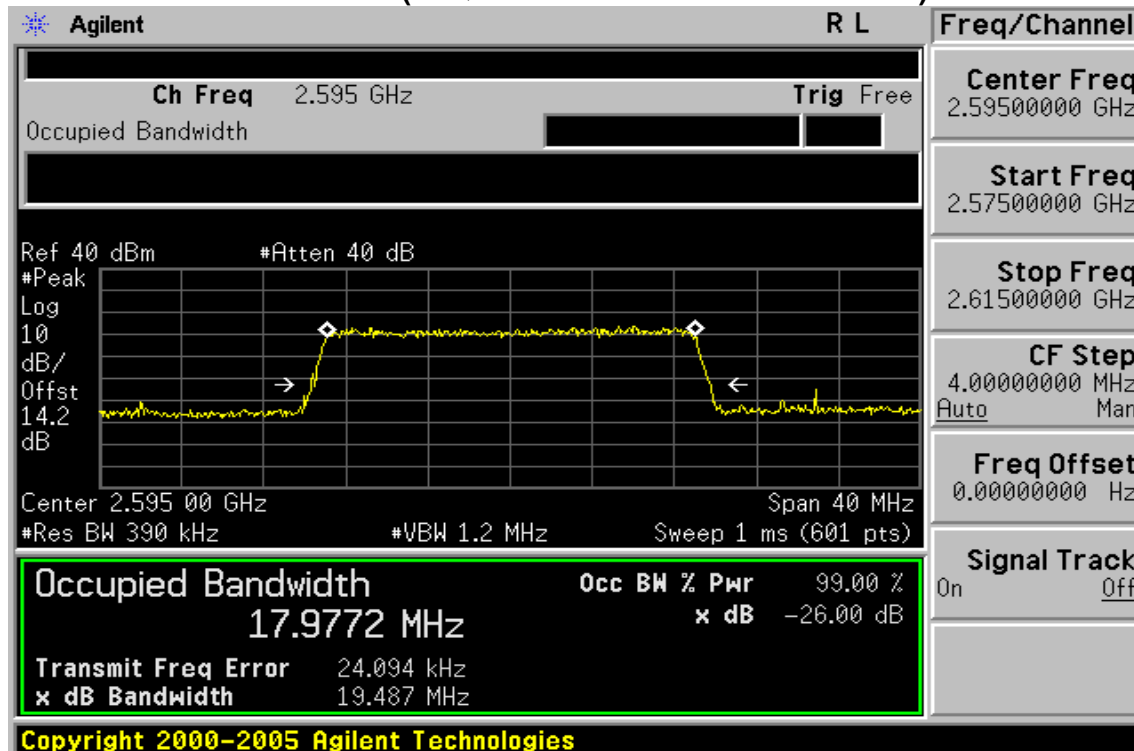
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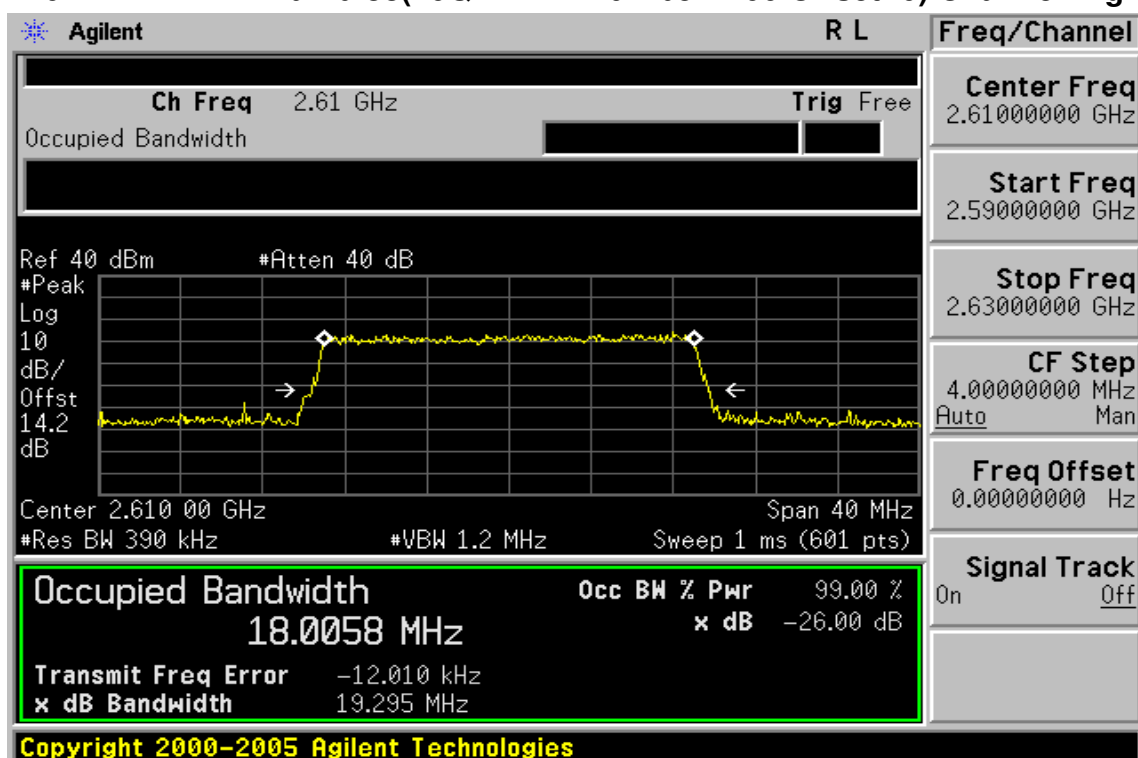
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20MHz BW LTE-Band 38(16QAM RB Number: 100 Offset: 0) Channel Mid



20MHz BW LTE-Band 38(16QAM RB Number: 100 Offset: 0) Channel High



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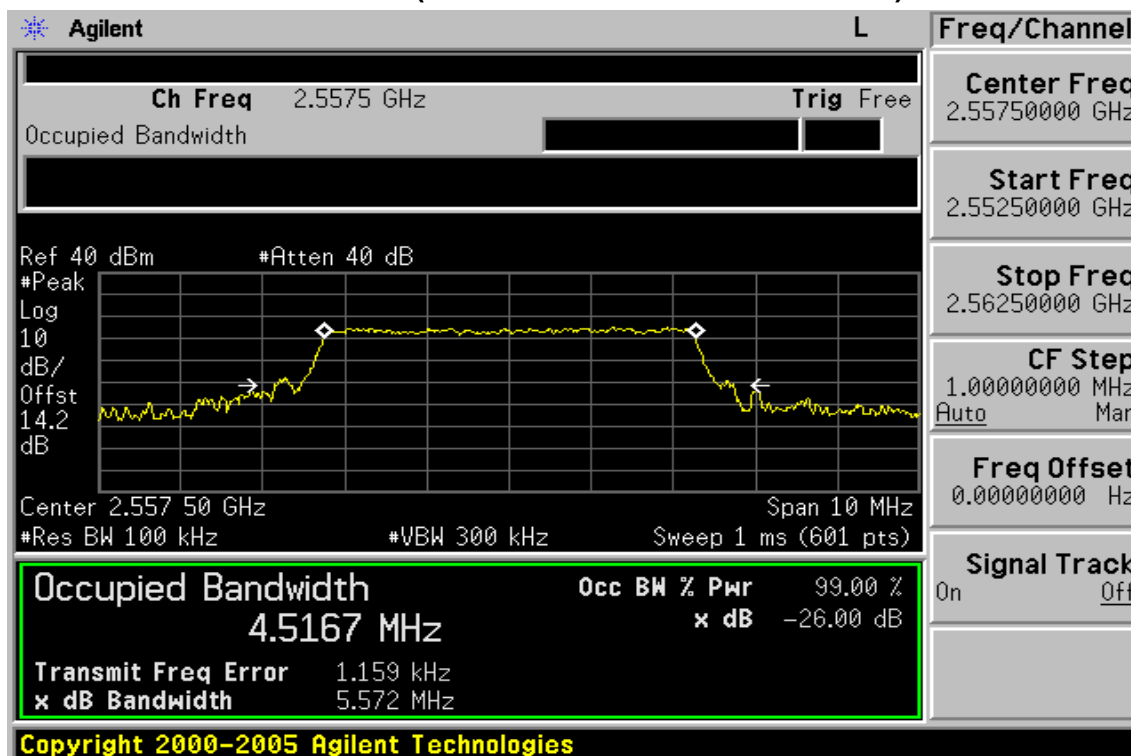
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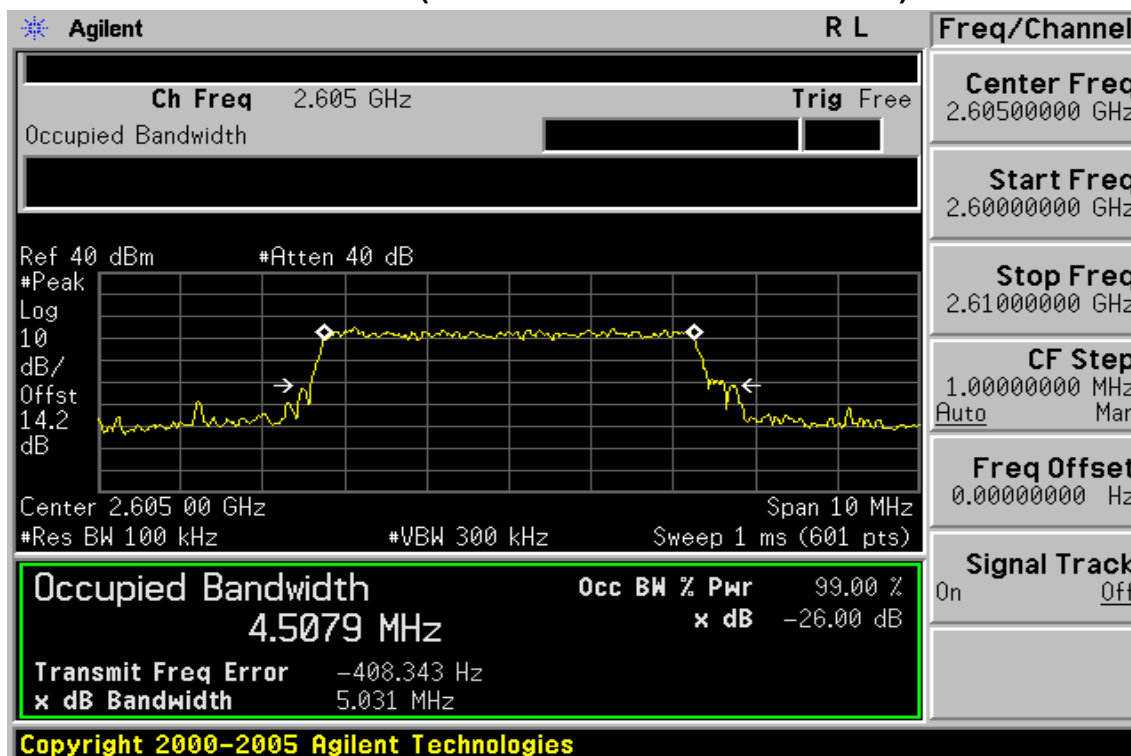
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5MHz BW LTE-Bamd 41(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Bamd 41(QPSK RB Number: 25 Offset: 0) Channel Mid



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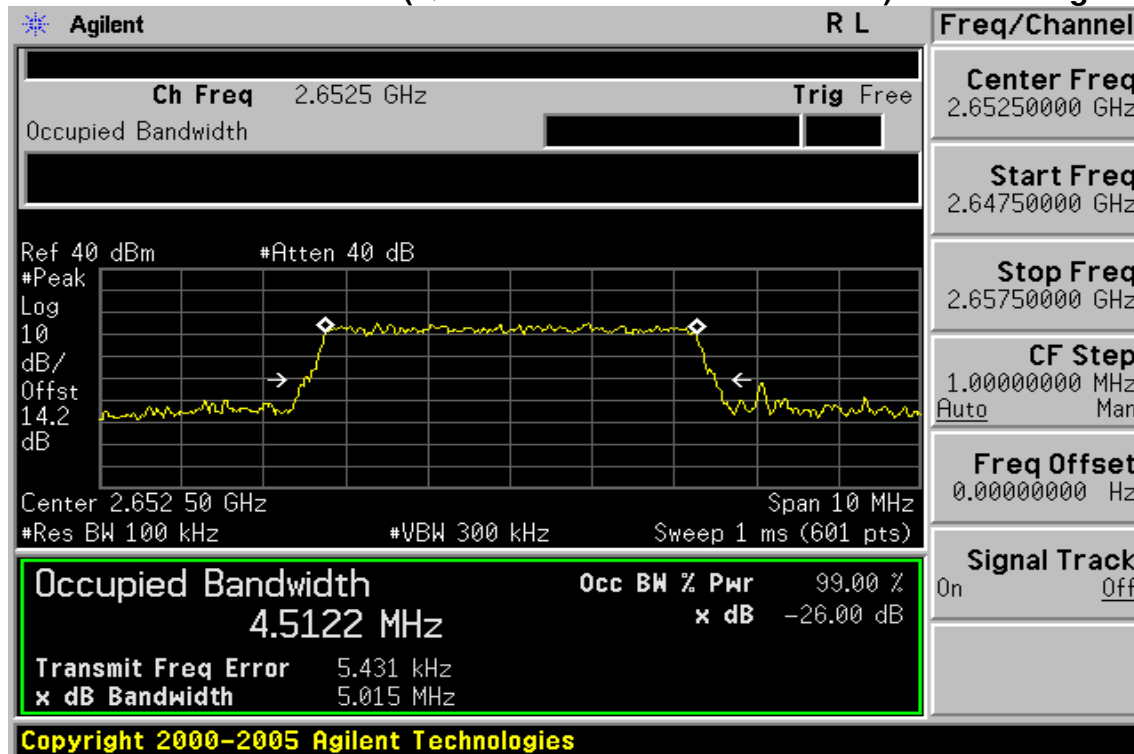
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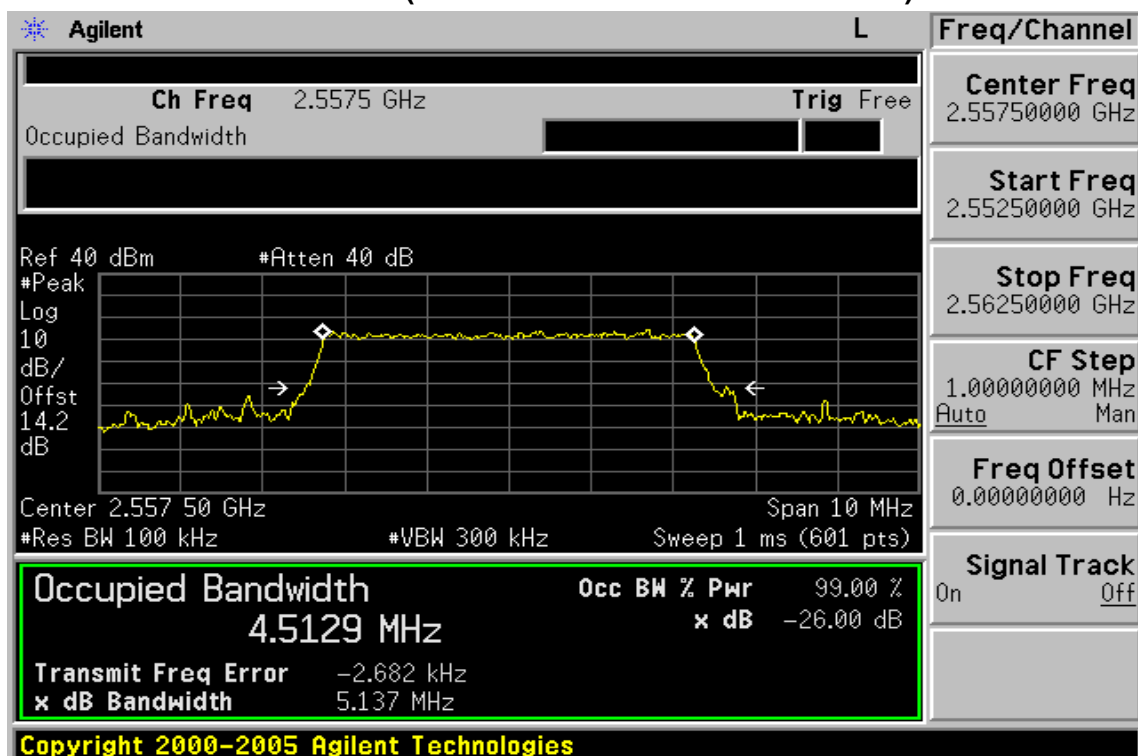
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5MHz BW LTE-Band 41(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 41(16QAM RB Number: 25 Offset: 0) Channel Low



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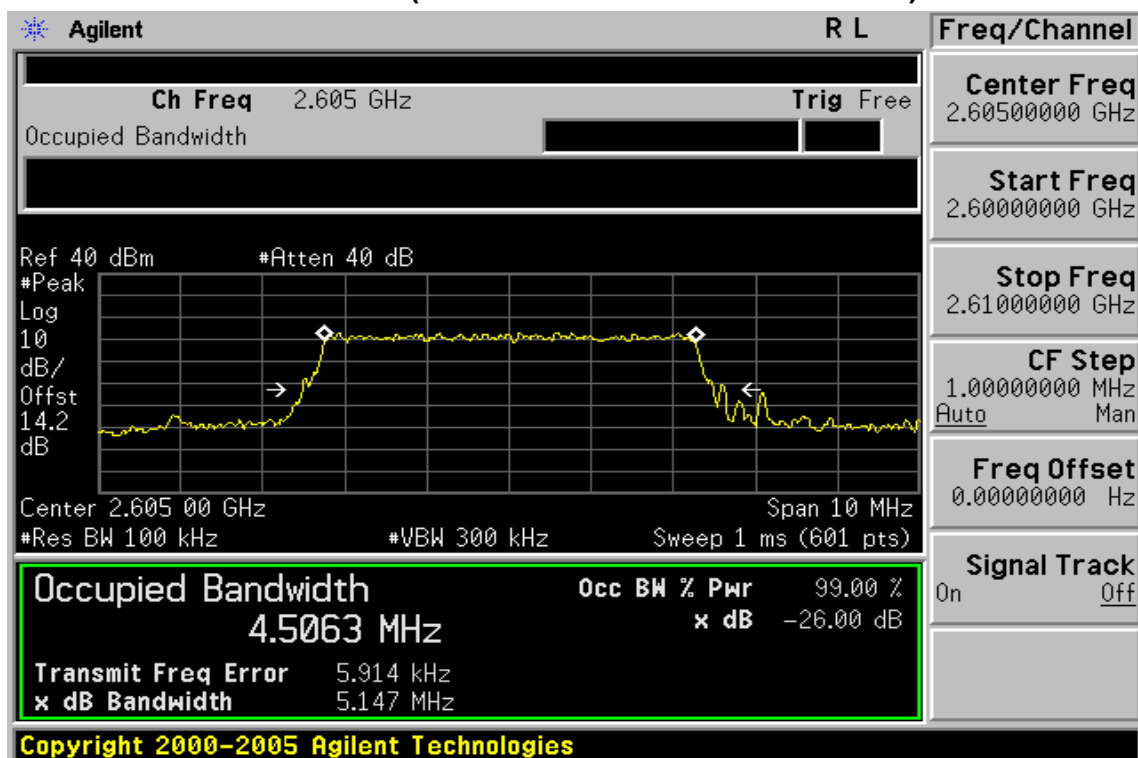
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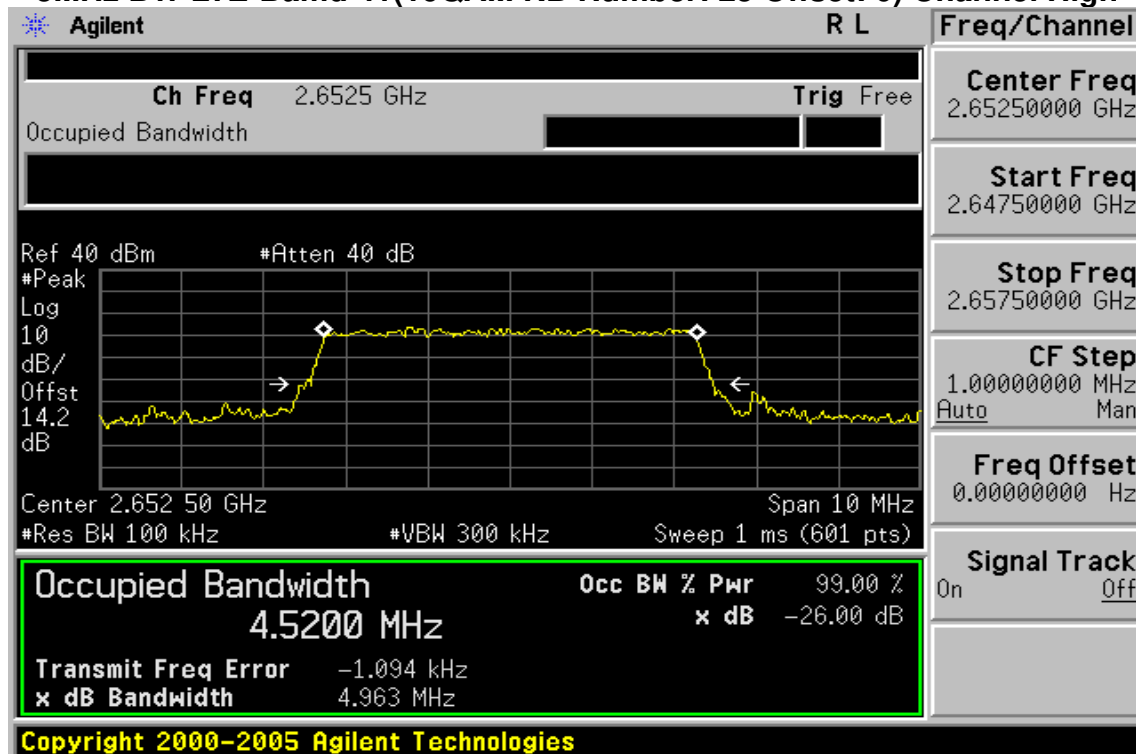
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5MHz BW LTE-Band 41(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 41(16QAM RB Number: 25 Offset: 0) Channel High



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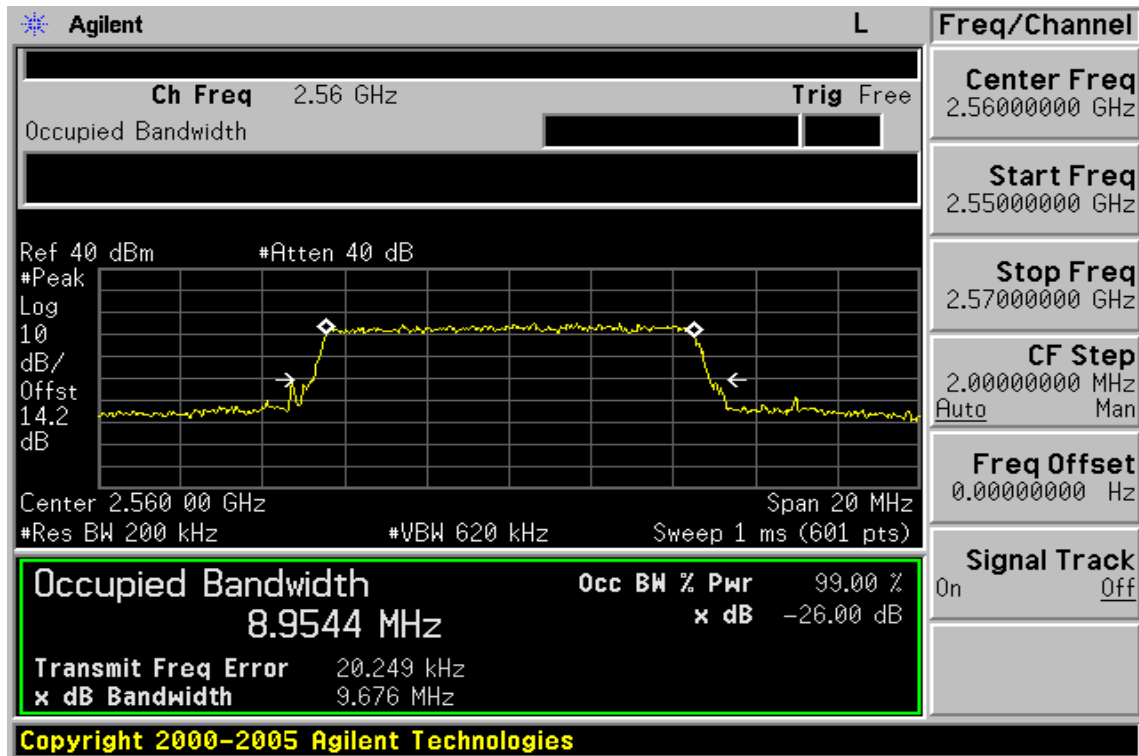
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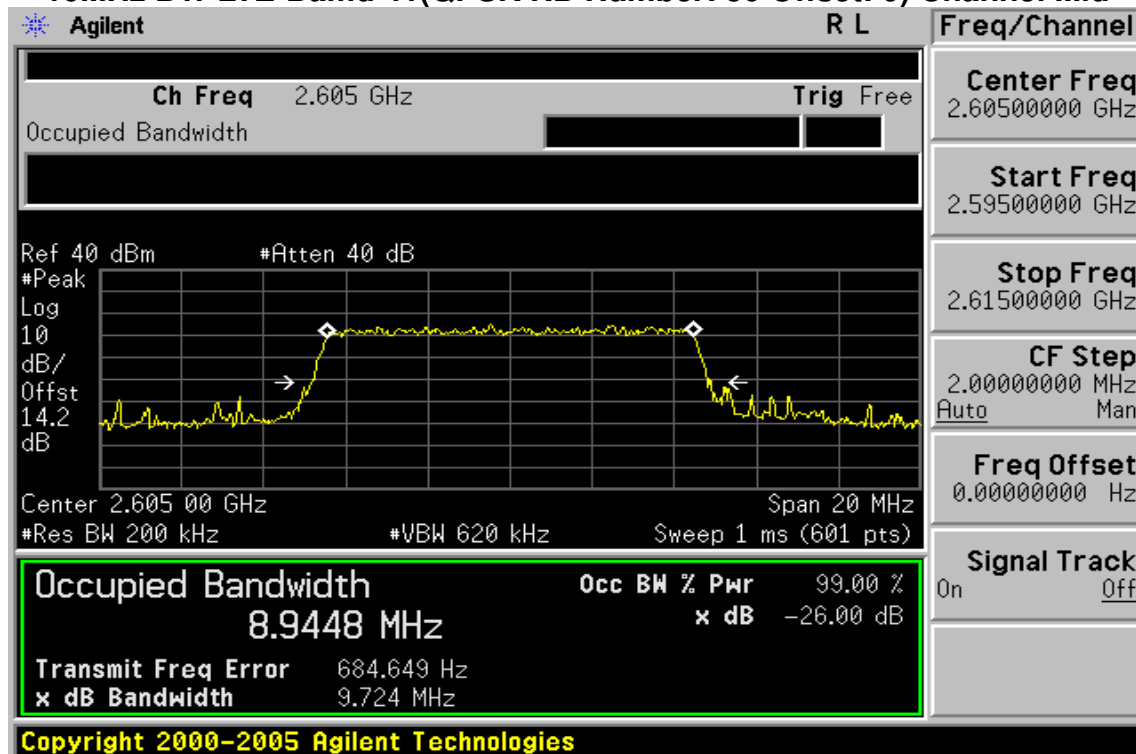
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10MHz BW LTE-Band 41 (QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 41(QPSK RB Number: 50 Offset: 0) Channel Mid



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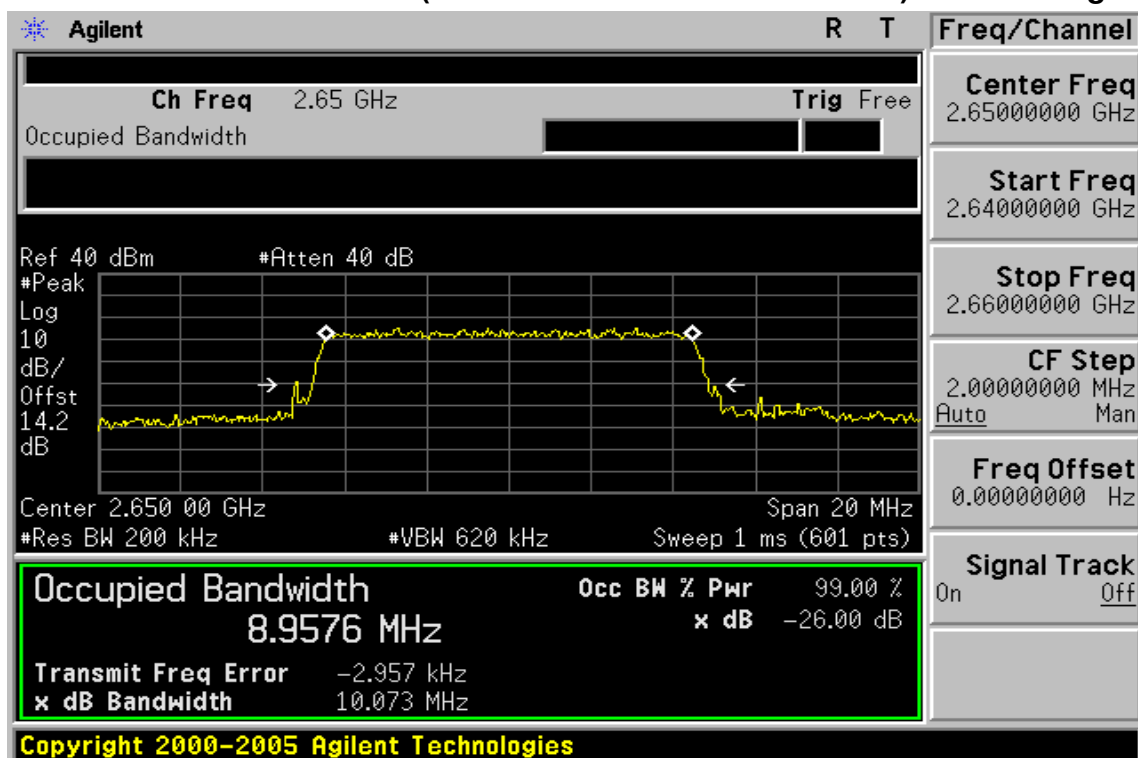
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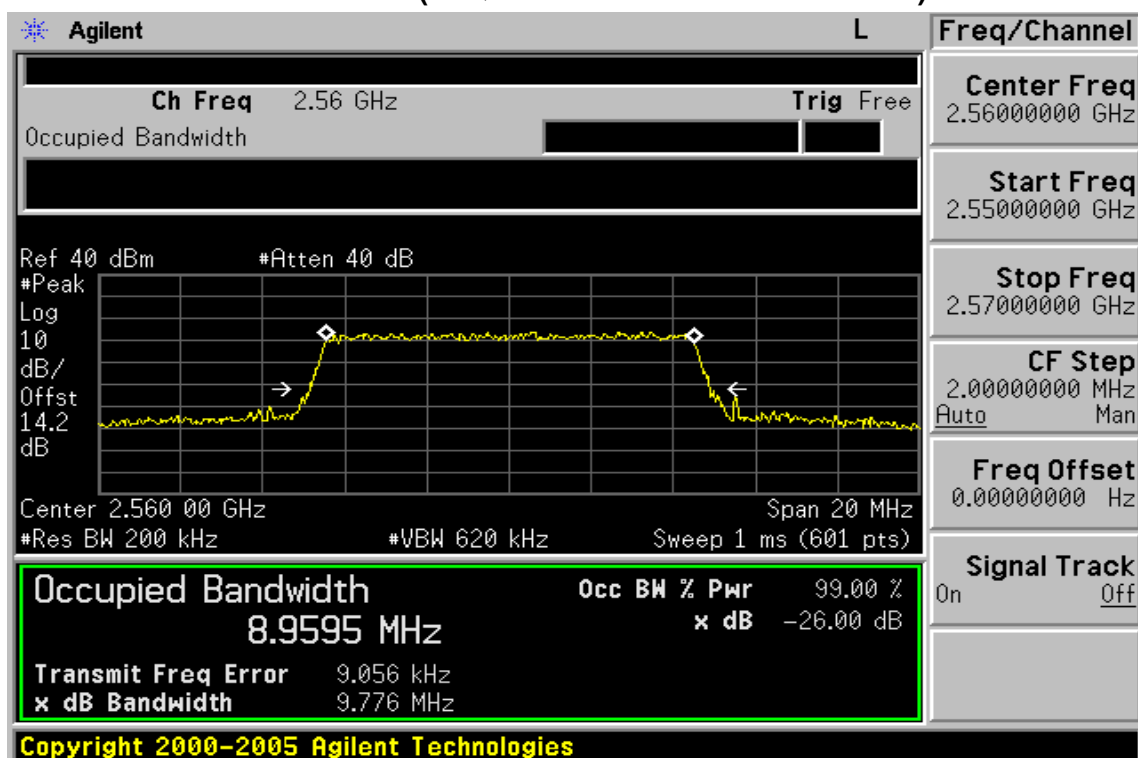
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10MHz BW LTE-Band 41(QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Band 41 (16QAM RB Number: 50 Offset: 0) Channel Low



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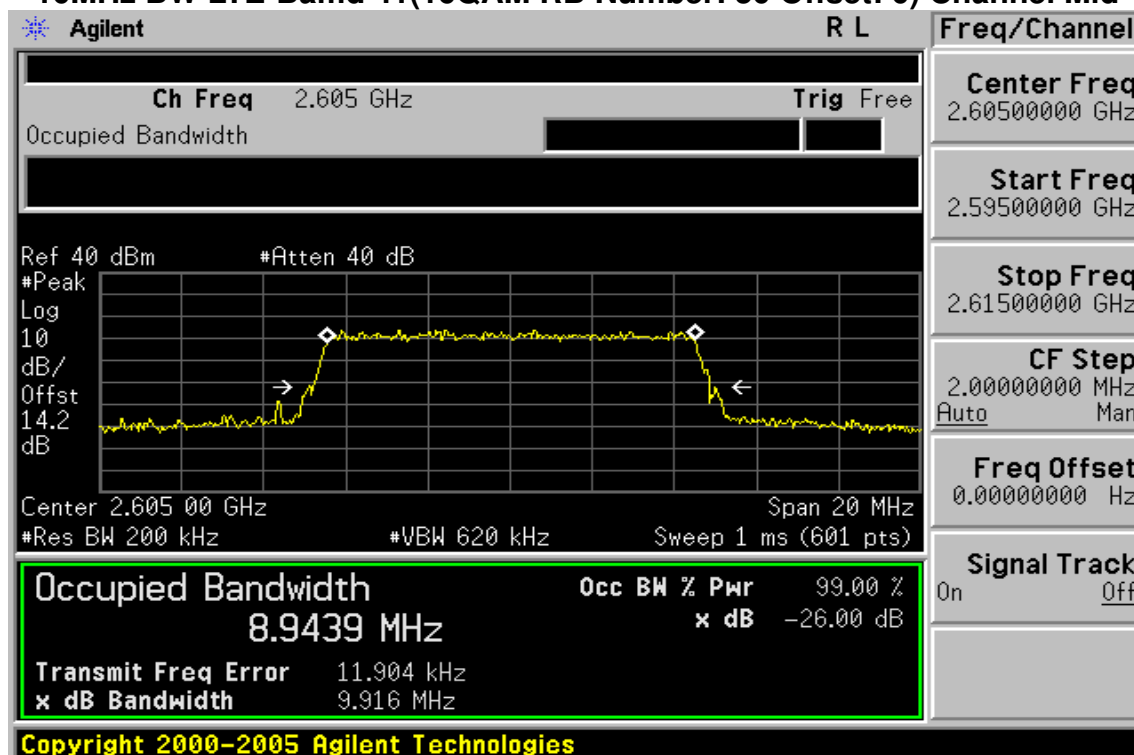
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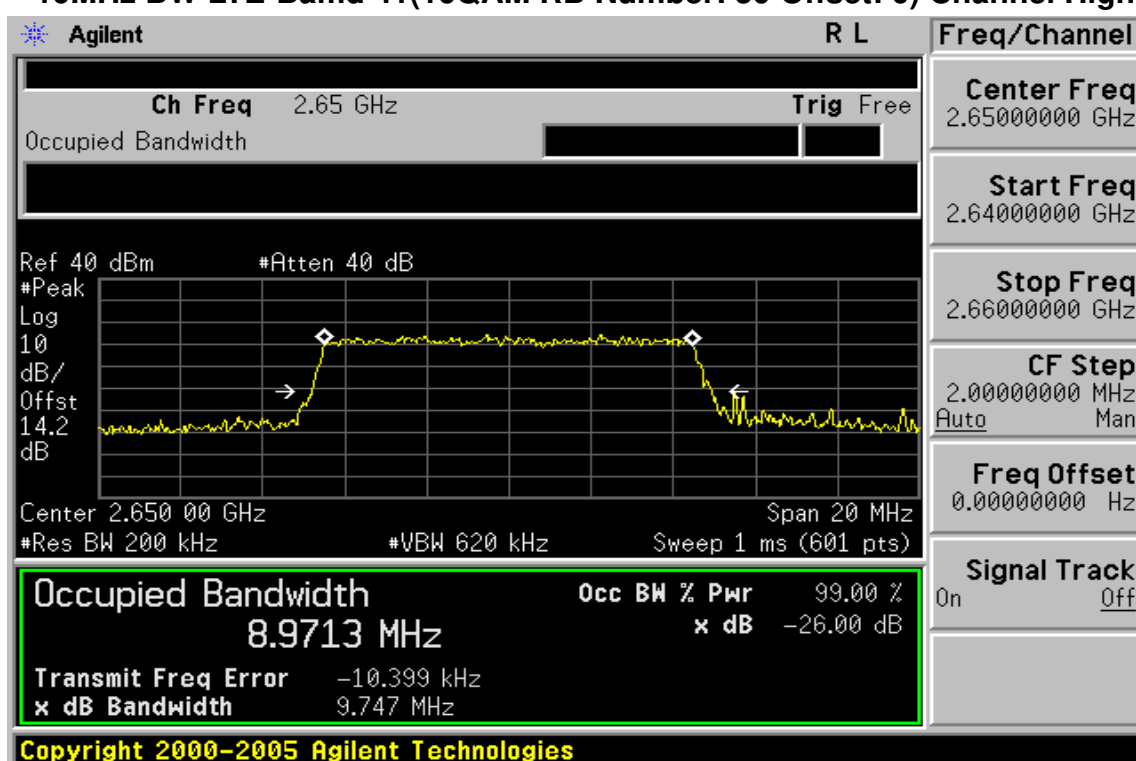
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10MHz BW LTE-Band 41(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 41(16QAM RB Number: 50 Offset: 0) Channel High



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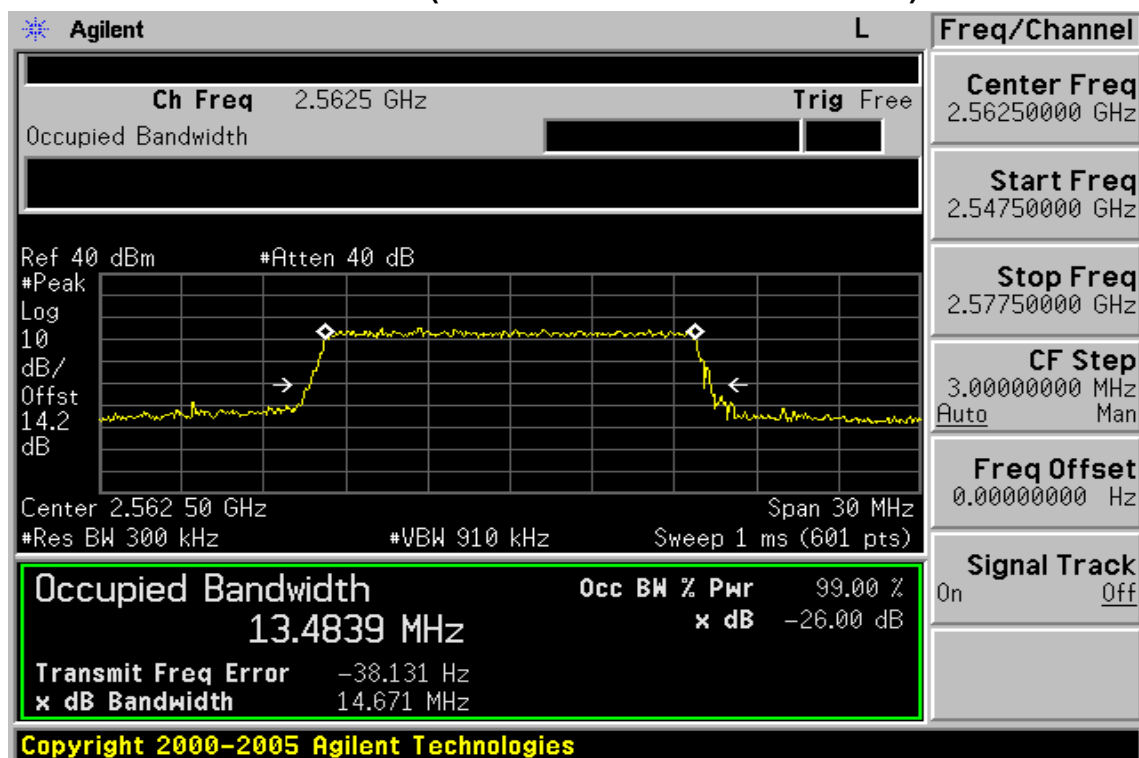
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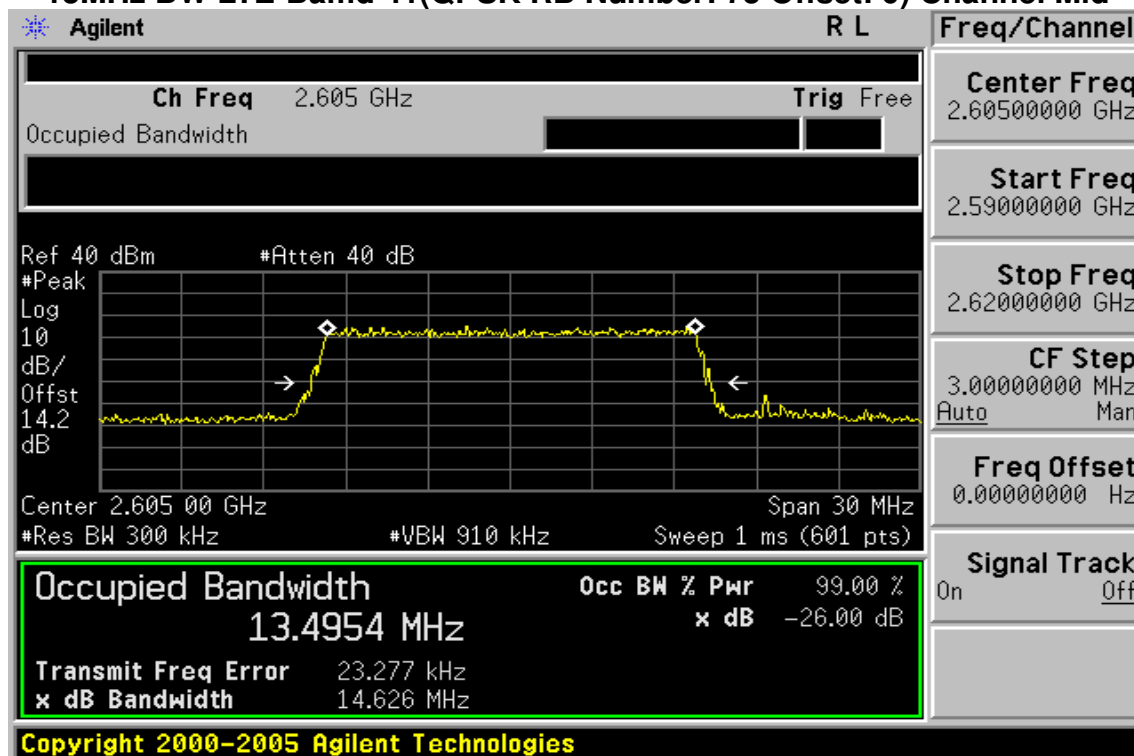
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15MHz BW LTE-Bamd 41 (QPSK RB Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Bamd 41(QPSK RB Number: 75 Offset: 0) Channel Mid



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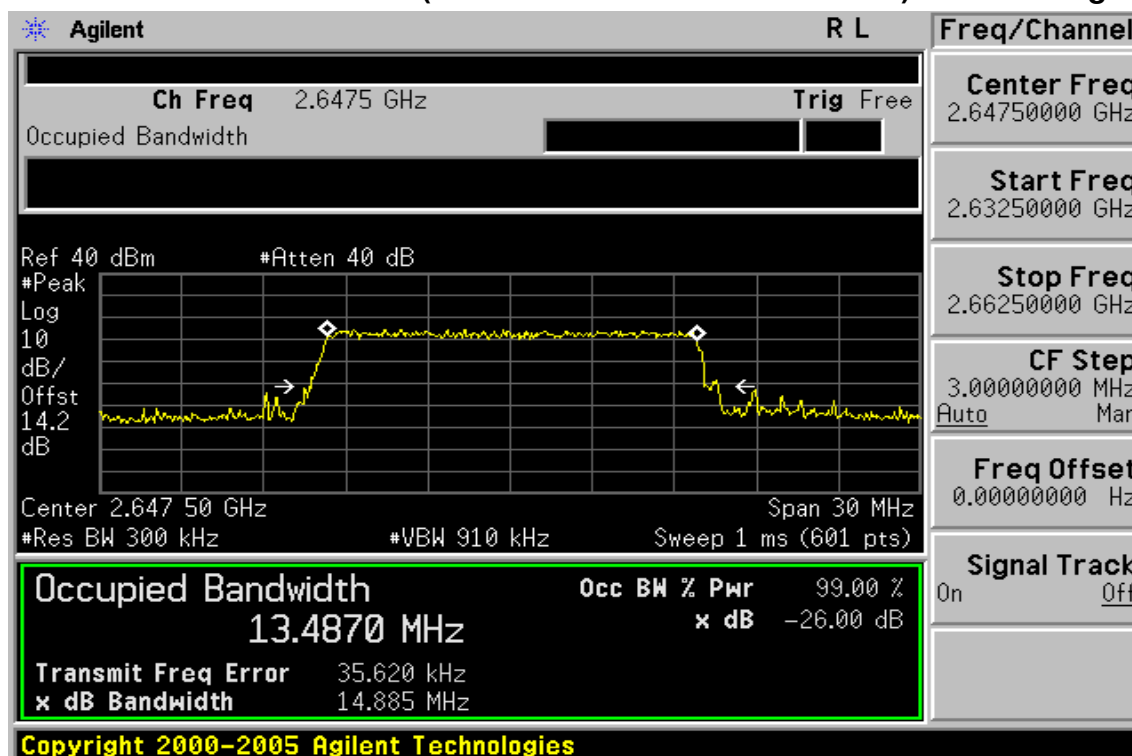
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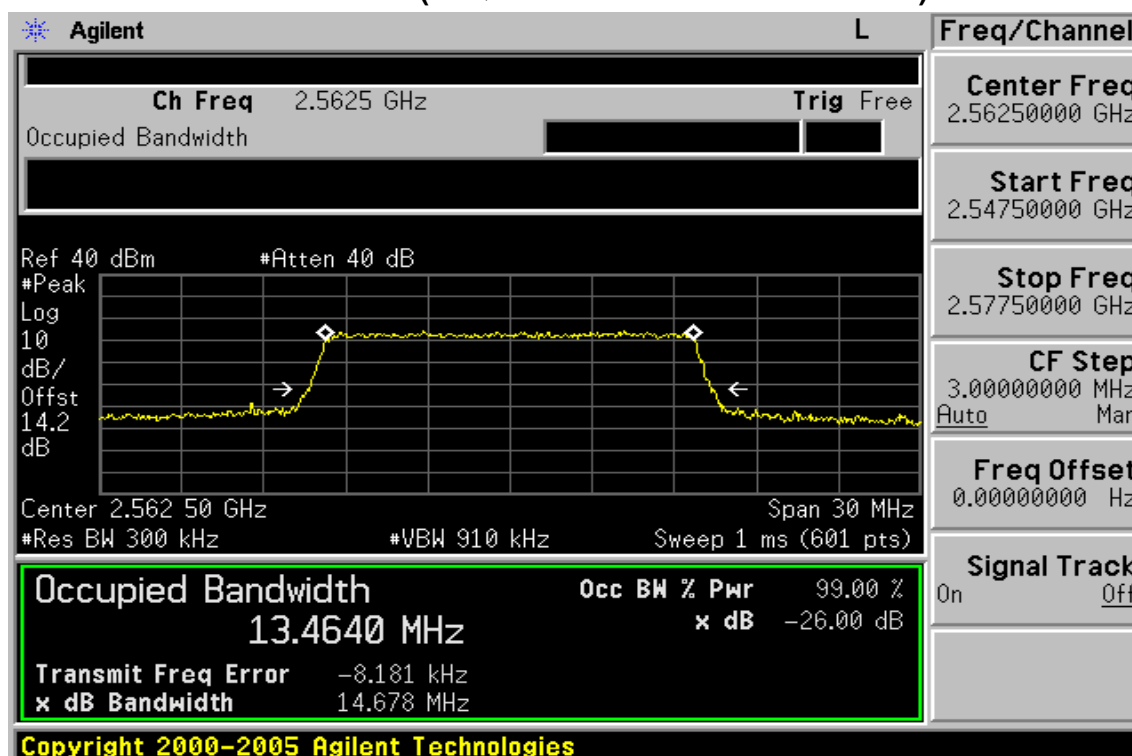
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15MHz BW LTE-Band 41(QPSK RB Number: 75 Offset: 0) Channel High



15MHz BW LTE-Band 41 (16QAM RB Number: 75 Offset: 0) Channel Low



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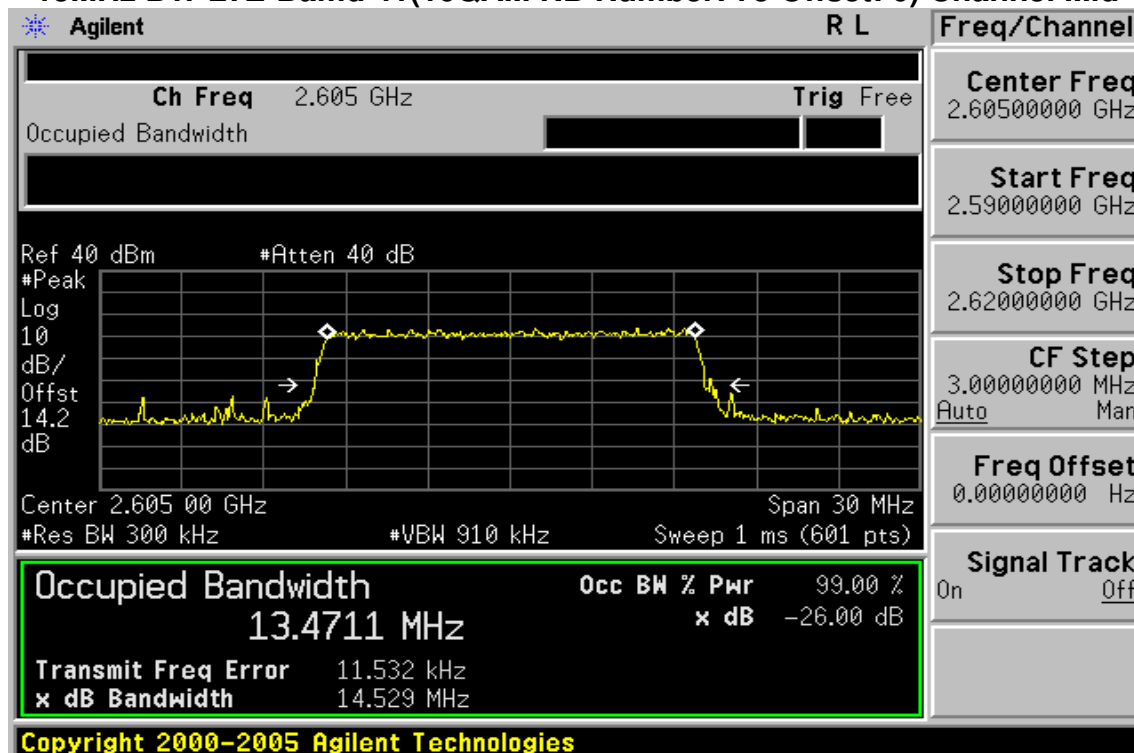
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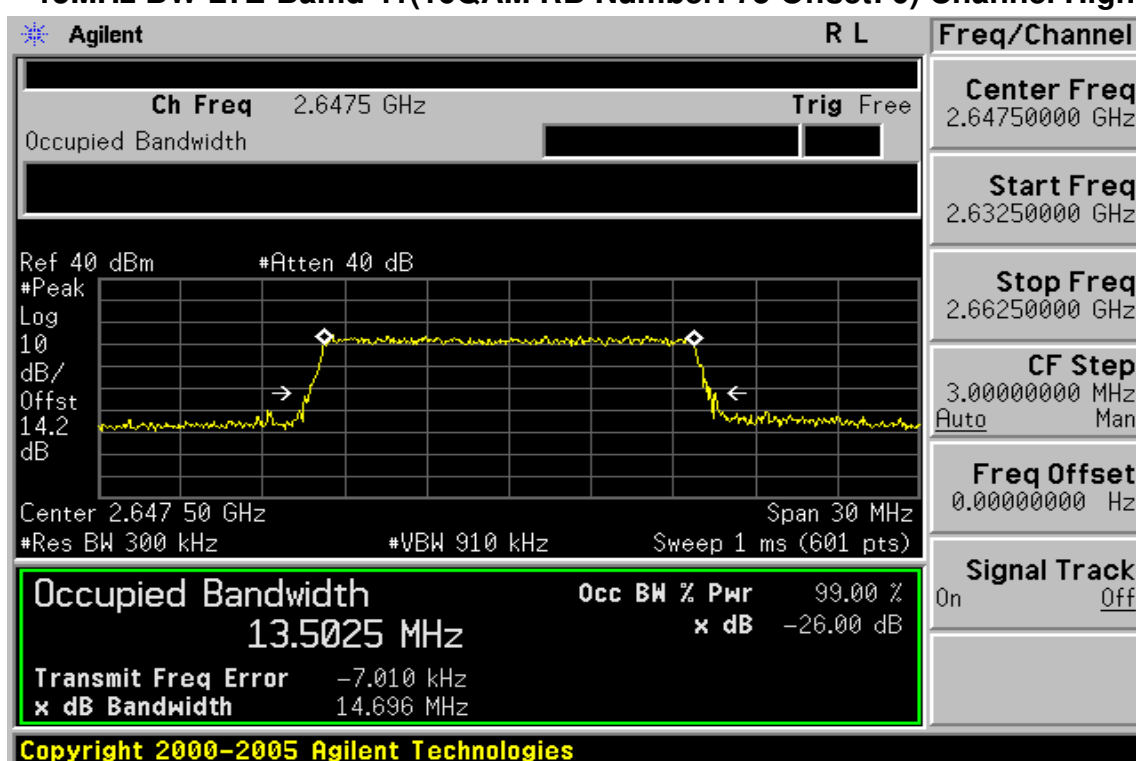
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15MHz BW LTE-Bamd 41(16QAM RB Number: 75 Offset: 0) Channel Mid



15MHz BW LTE-Bamd 41(16QAM RB Number: 75 Offset: 0) Channel High



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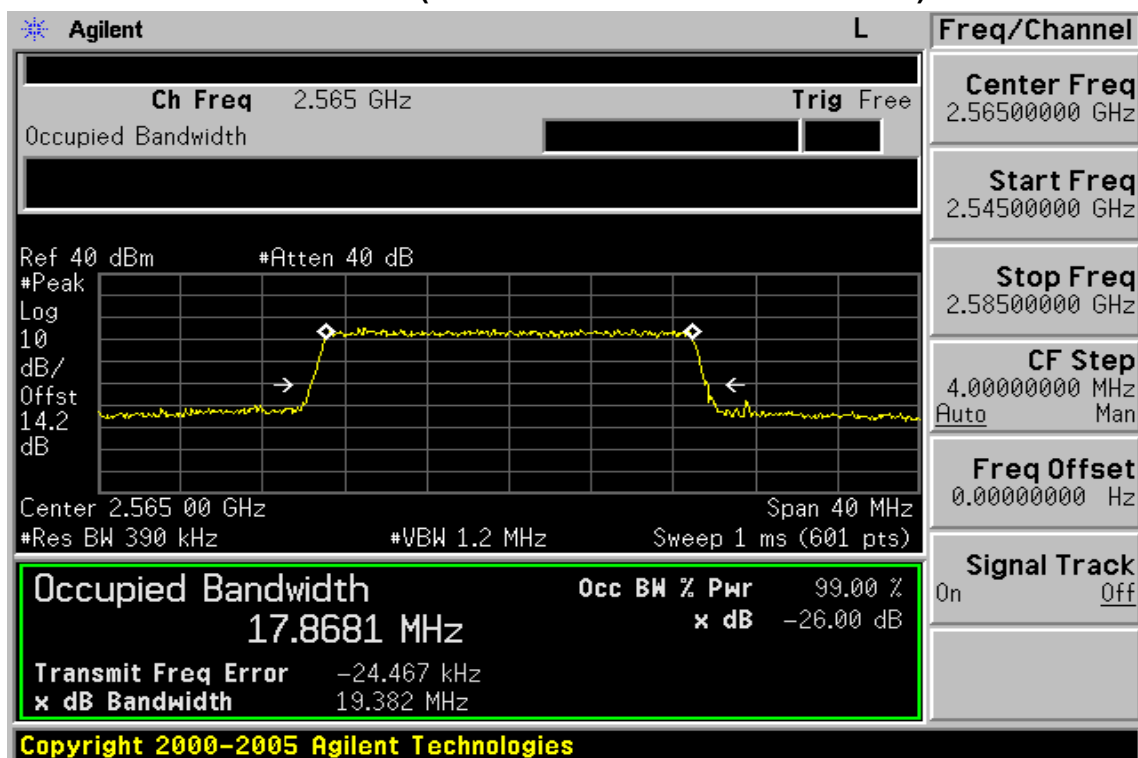
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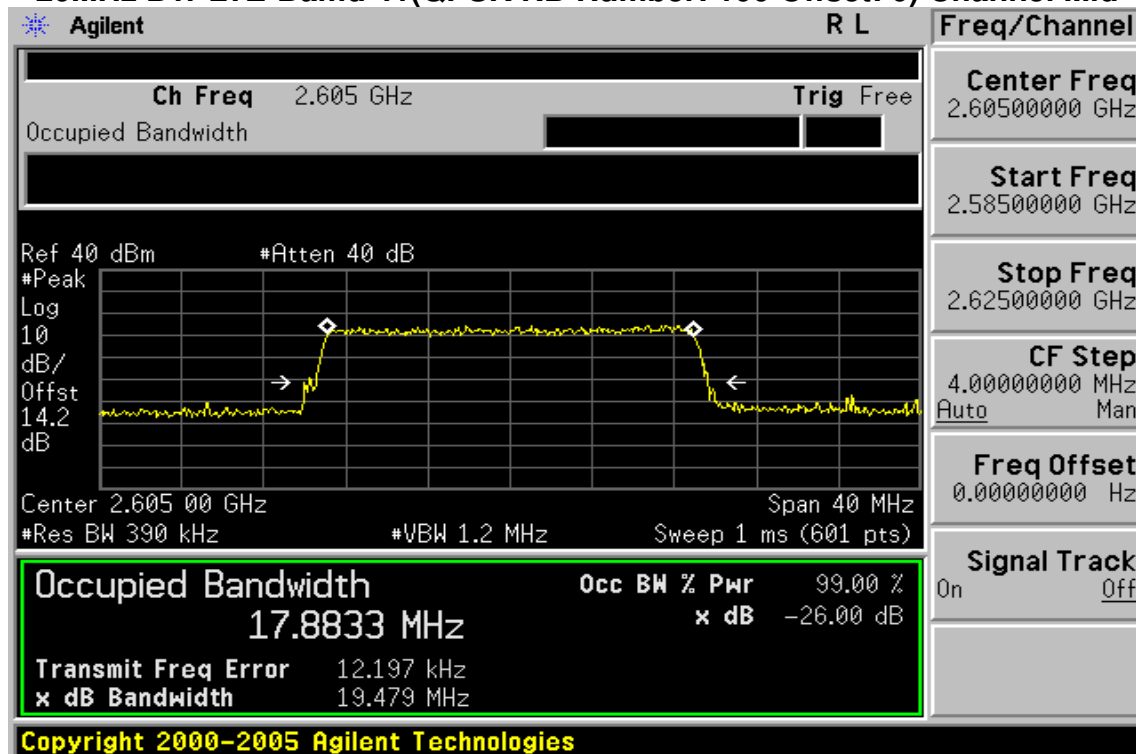
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20MHz BW LTE-Band 41 (QPSK RB Number: 100 Offset: 0) Channel Low



20MHz BW LTE-Band 41(QPSK RB Number: 100 Offset: 0) Channel Mid



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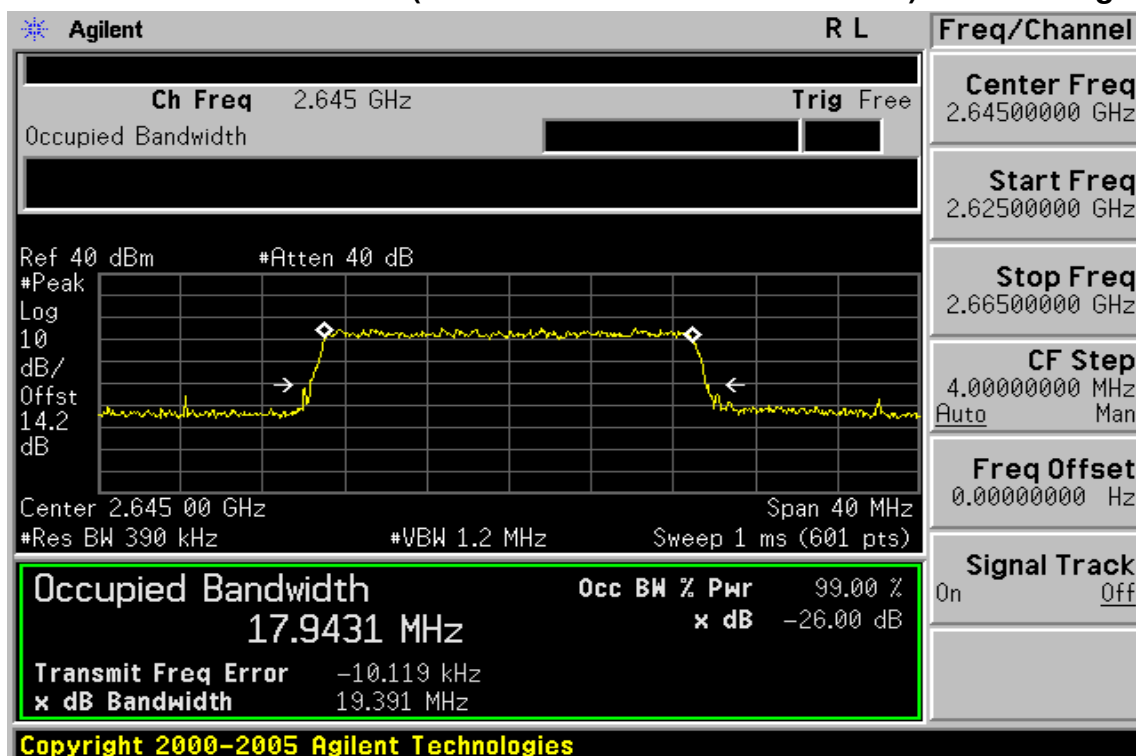
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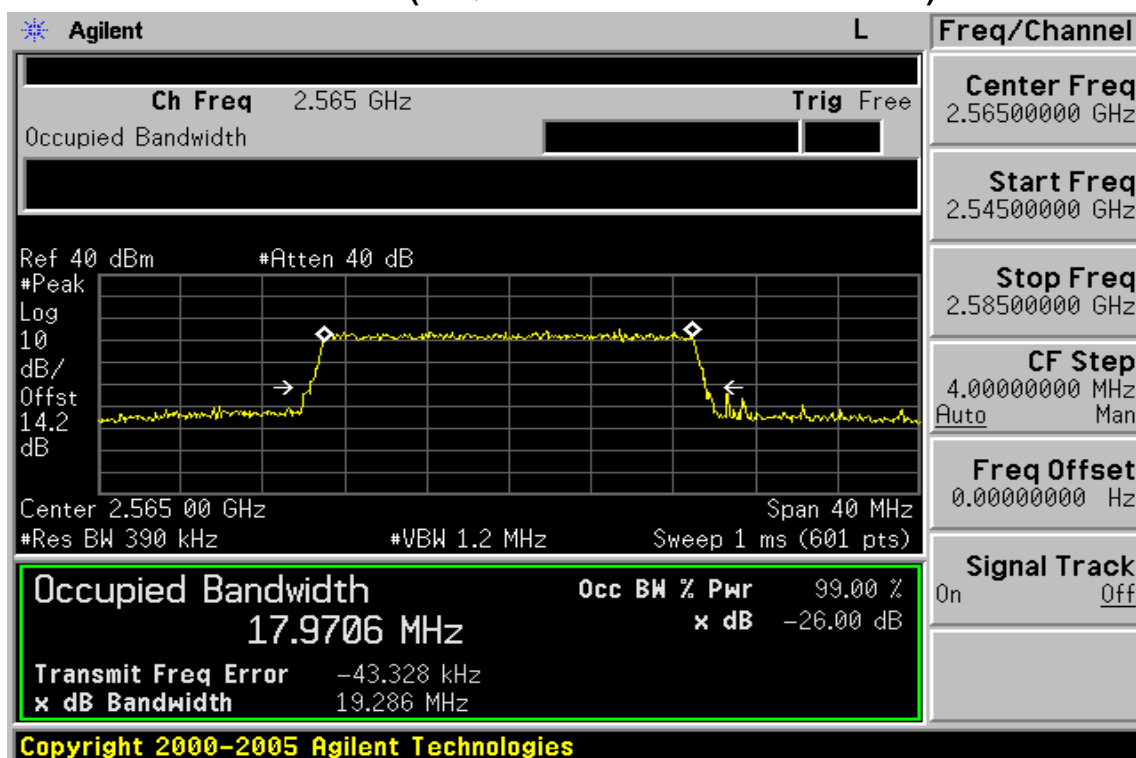
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20MHz BW LTE-Band 41(QPSK RB Number: 100 Offset: 0) Channel High



20MHz BW LTE-Band 41 (16QAM RB Number: 100 Offset: 0) Channel Low



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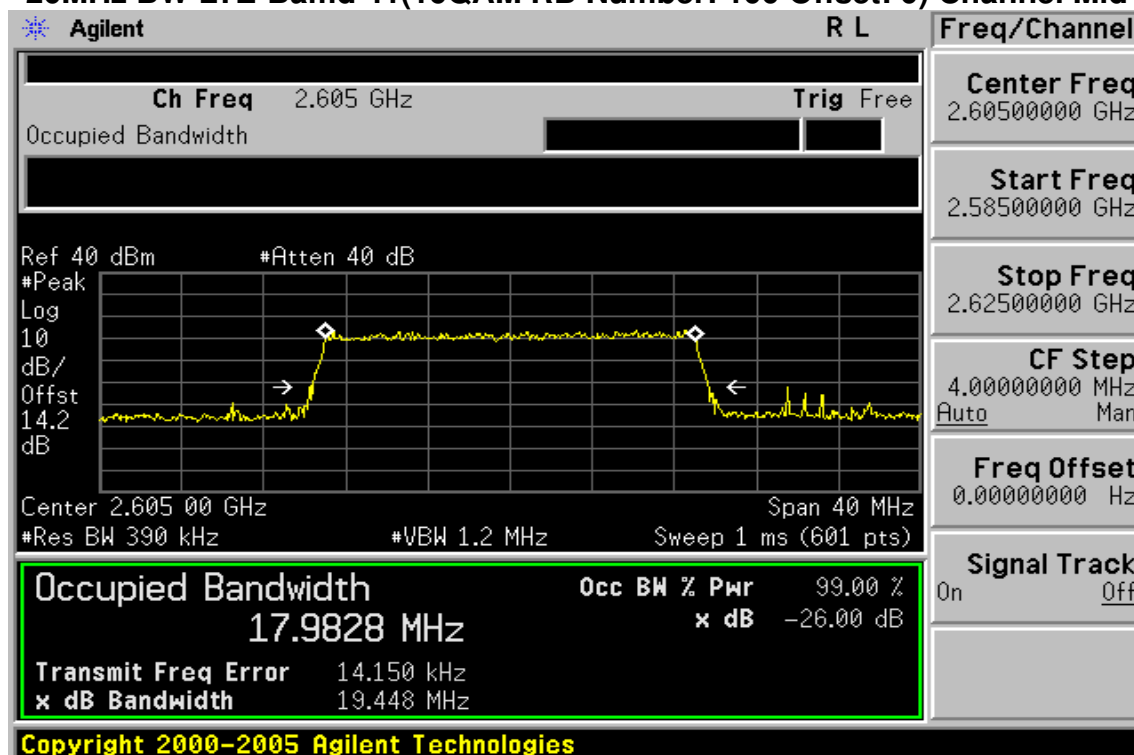
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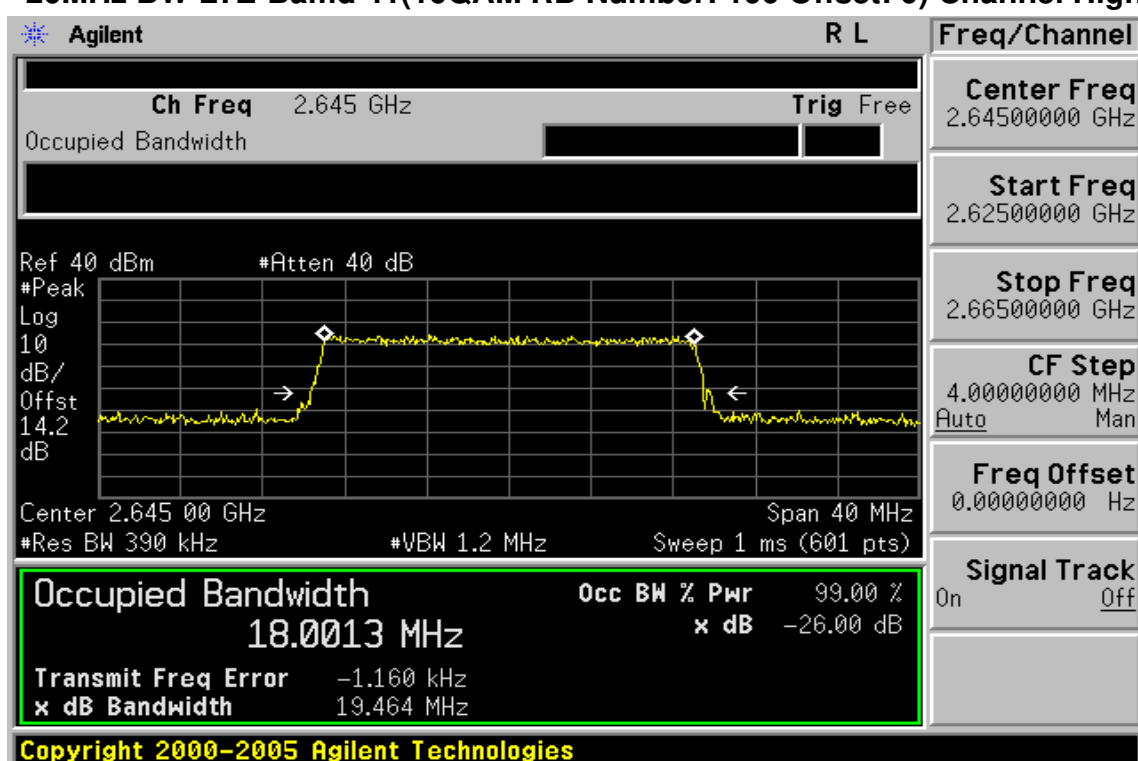
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20MHz BW LTE-Band 41(16QAM RB Number: 100 Offset: 0) Channel Mid



20MHz BW LTE-Band 41(16QAM RB Number: 100 Offset: 0) Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(g)(h), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

§27.53 (m) (4) shall not be less than $55 + 10 \log$ (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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FCC §27.53(m) (4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in § 27.53(m)(6). In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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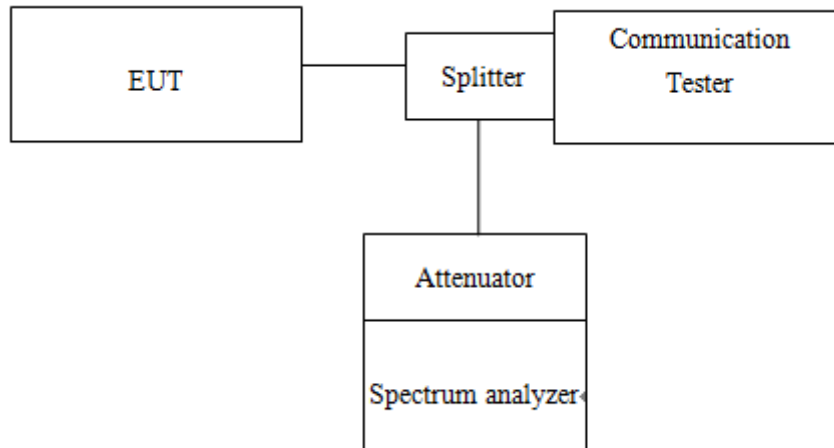
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9.2. Test SET-UP



9.3. Measurement Procedure

Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting $RBW \geq 1\% EBW$.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

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9.4. 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	05/17/2016	05/16/2017
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 Analyzer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

9.5. Measurement Result:

Refer to next pages.

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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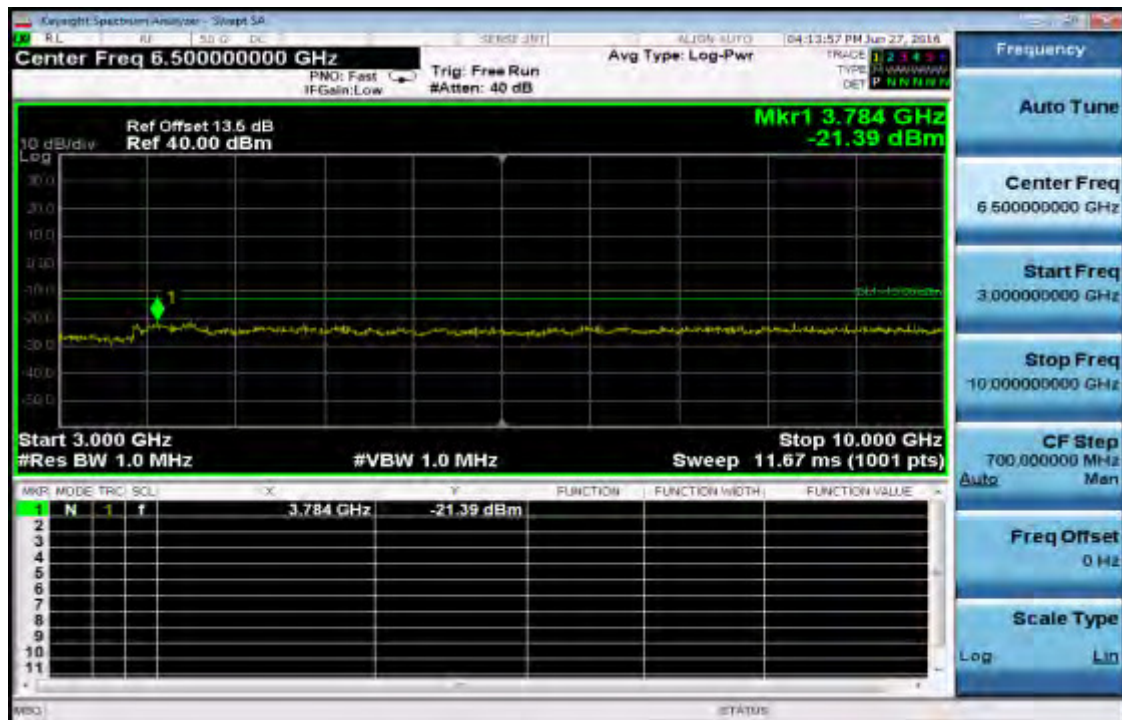
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Out of Band emission at antenna terminals – GSM 850 Channel Lowest



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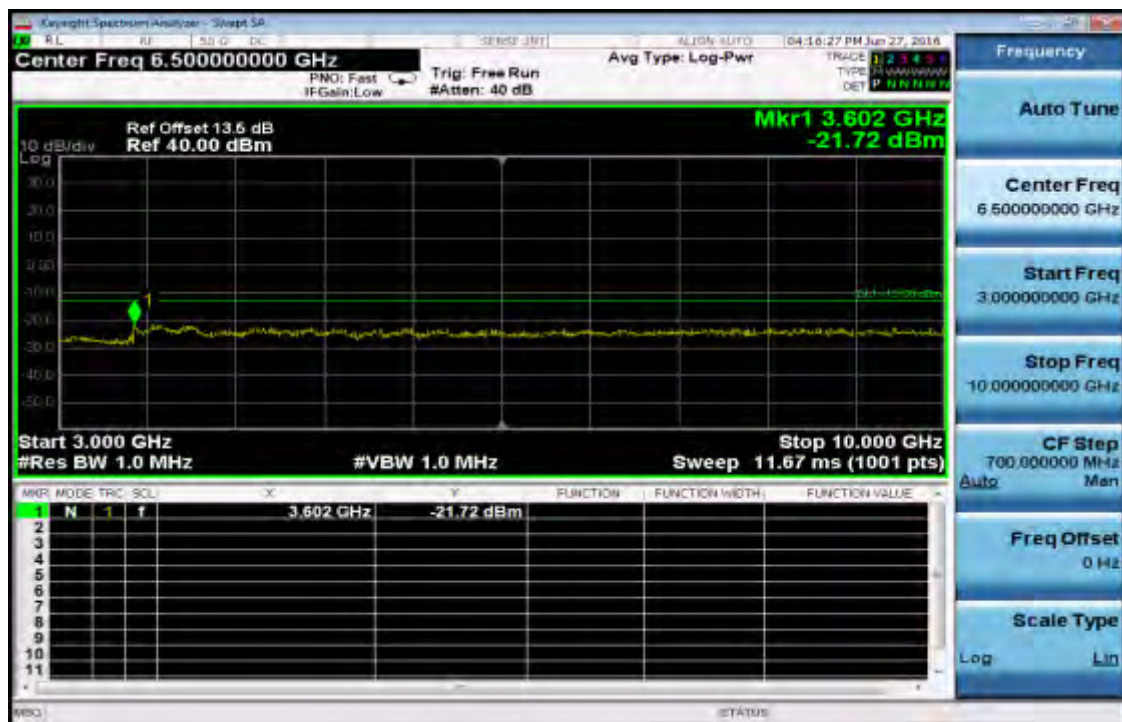
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Out of Band emission at antenna terminals – GSM 850 Channel Mid



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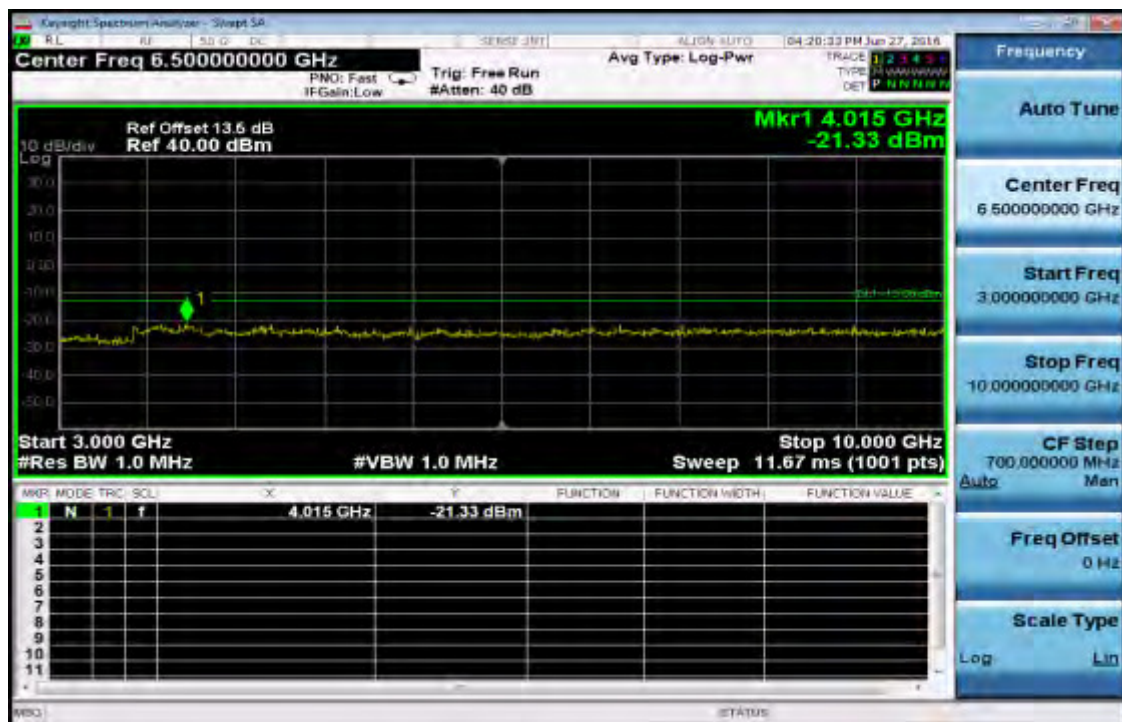
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Out of Band emission at antenna terminals – GSM 850 Channel Highest



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Band edge emission at antenna terminals – GSM 850 Channel Lowest



Band edge emission at antenna terminals – GSM 850 Channel Highest



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Out of Band emission at antenna terminals – GSM 1900 Channel Lowest



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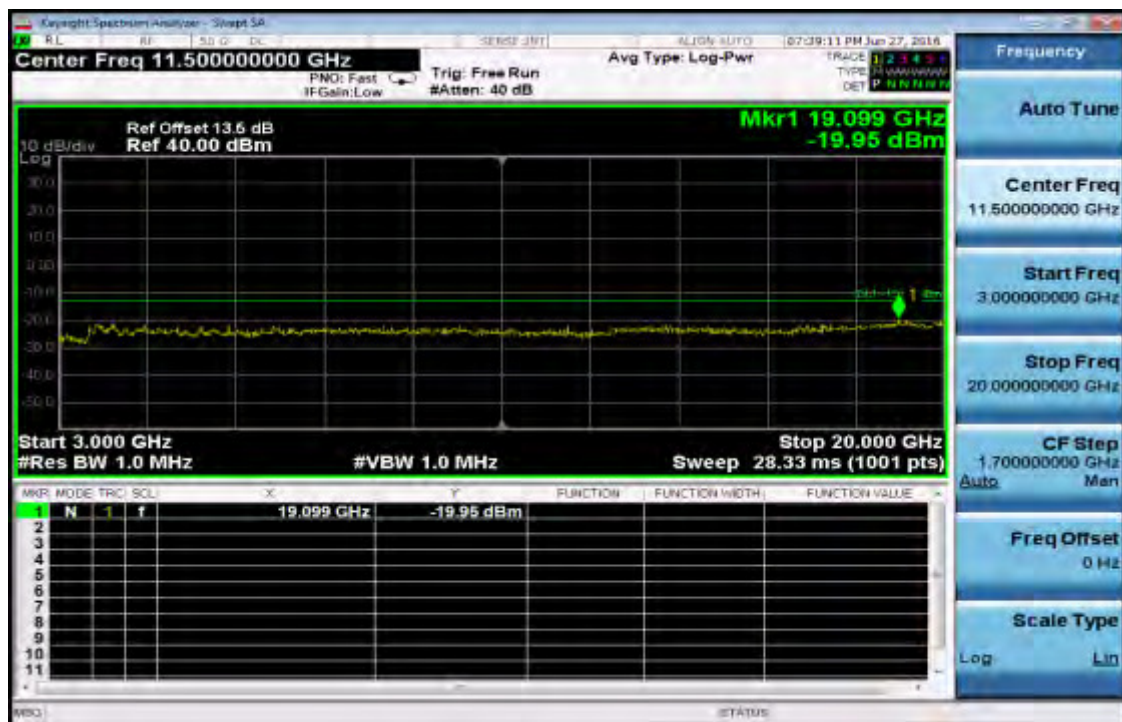
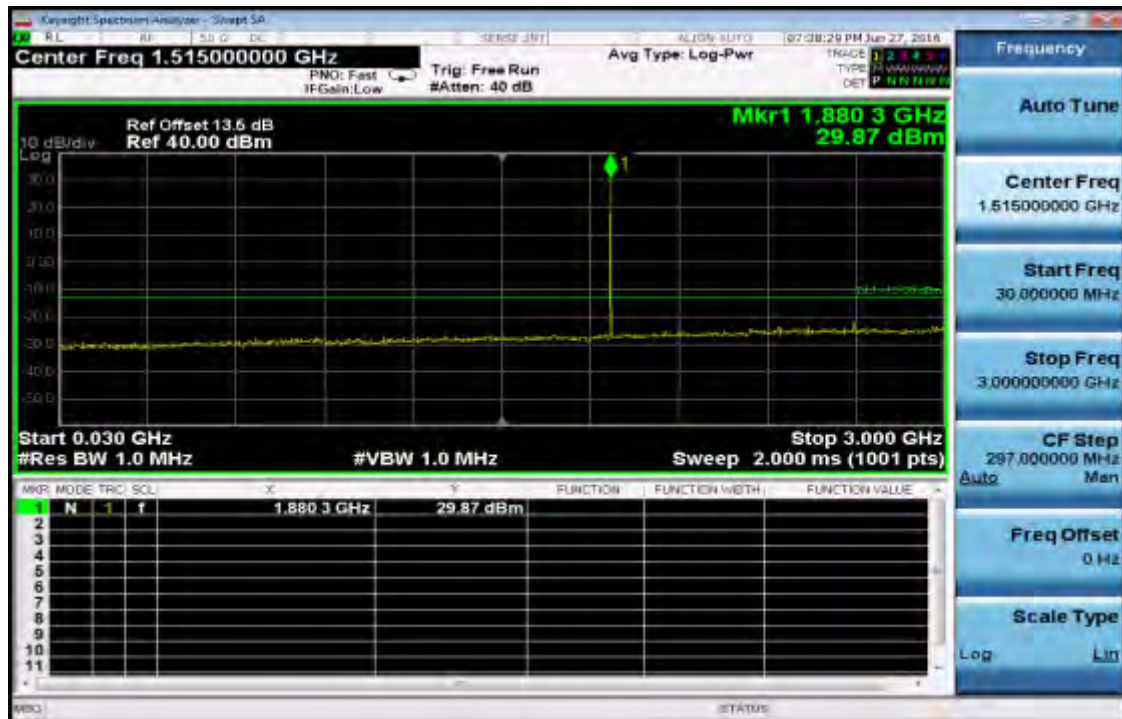
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Out of Band emission at antenna terminals – GSM 1900 Channel Mid



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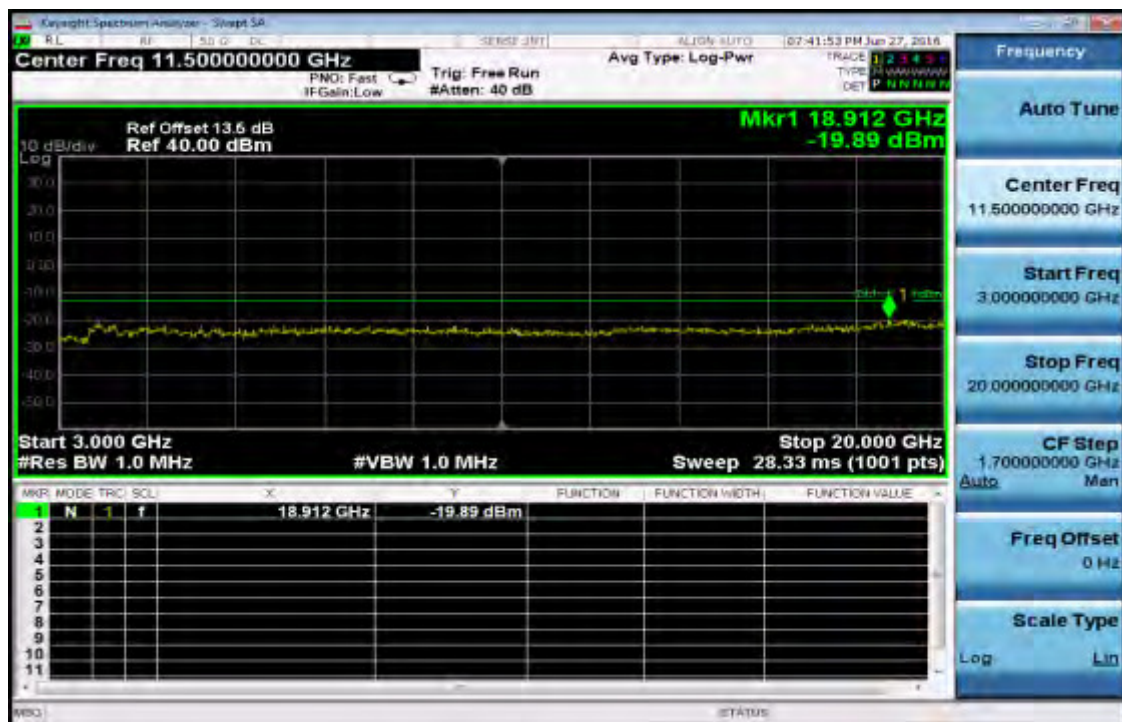
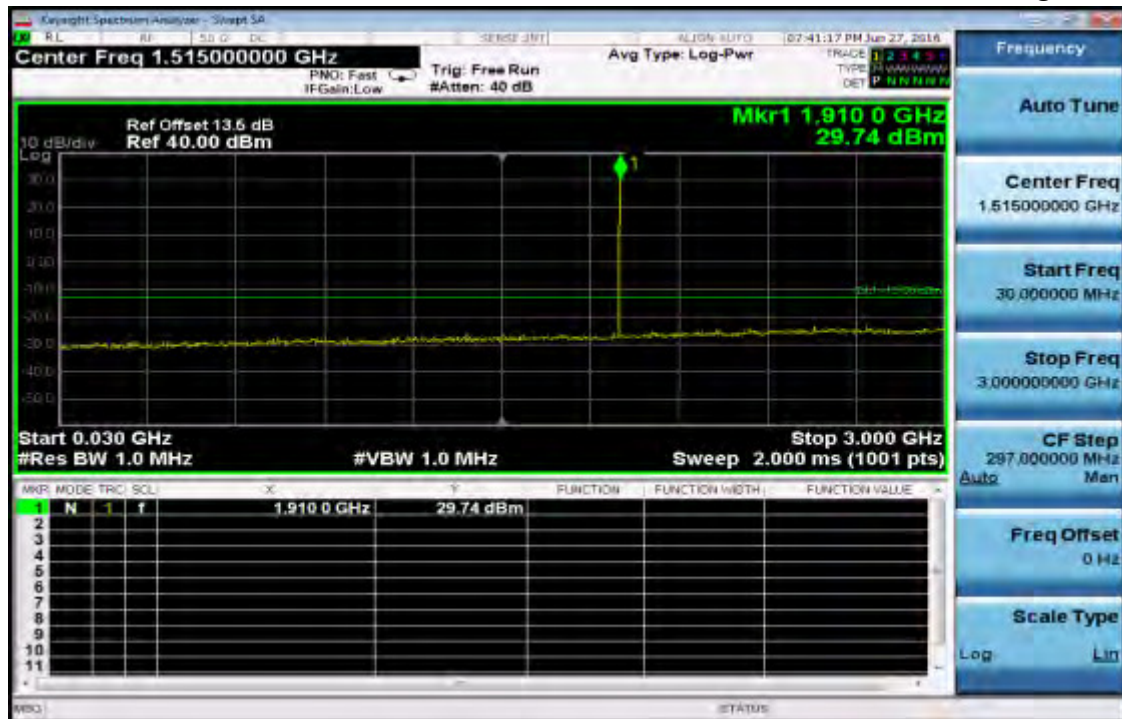
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Out of Band emission at antenna terminals – GSM 1900 Channel Highest



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Band edge emission at antenna terminals – GSM 1900 Channel Lowest



Band edge emission at antenna terminals – GSM 1900 Channel Highest



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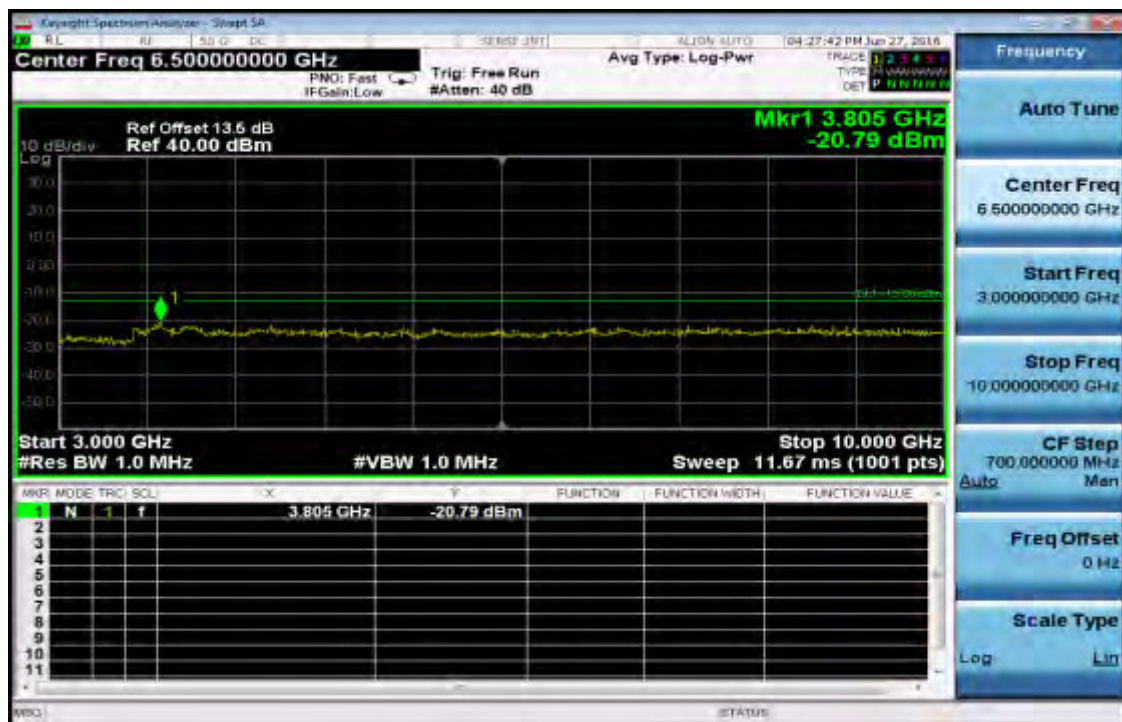
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Out of Band emission at antenna terminals – GPRS 850 Channel Lowest



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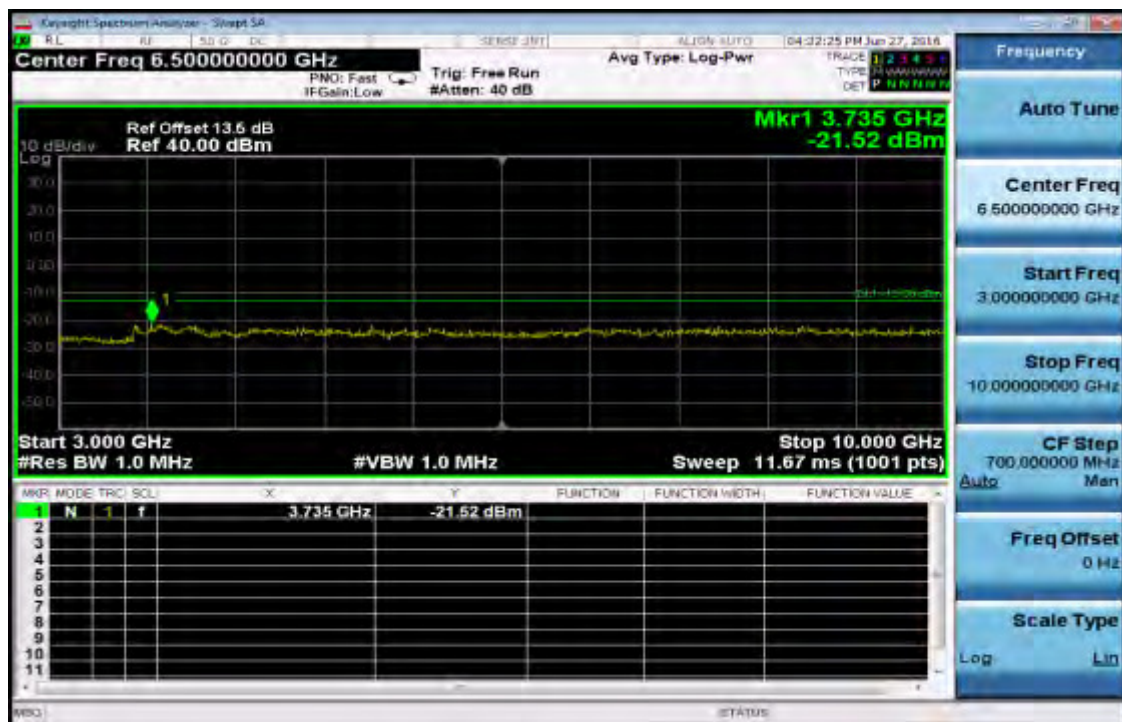
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Out of Band emission at antenna terminals – GPRS 850 Channel Mid



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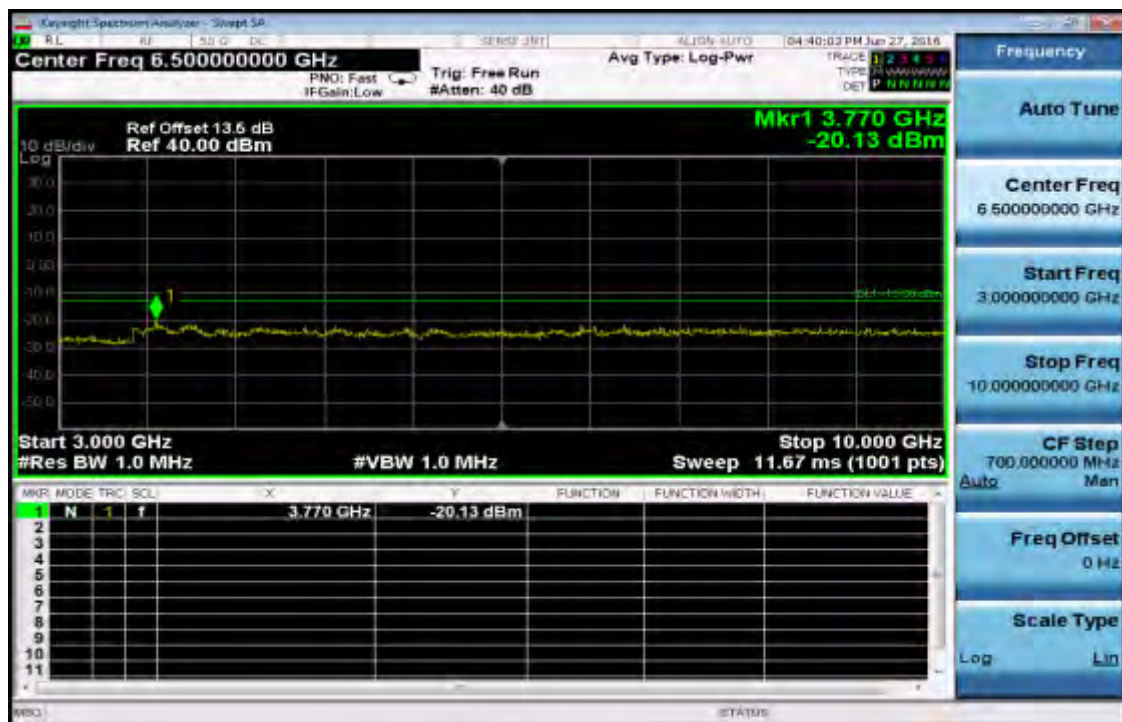
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Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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Band edge emission at antenna terminals – GPRS 850 Channel Lowest



Band edge emission at antenna terminals – GPRS 850 Channel Highest



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Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



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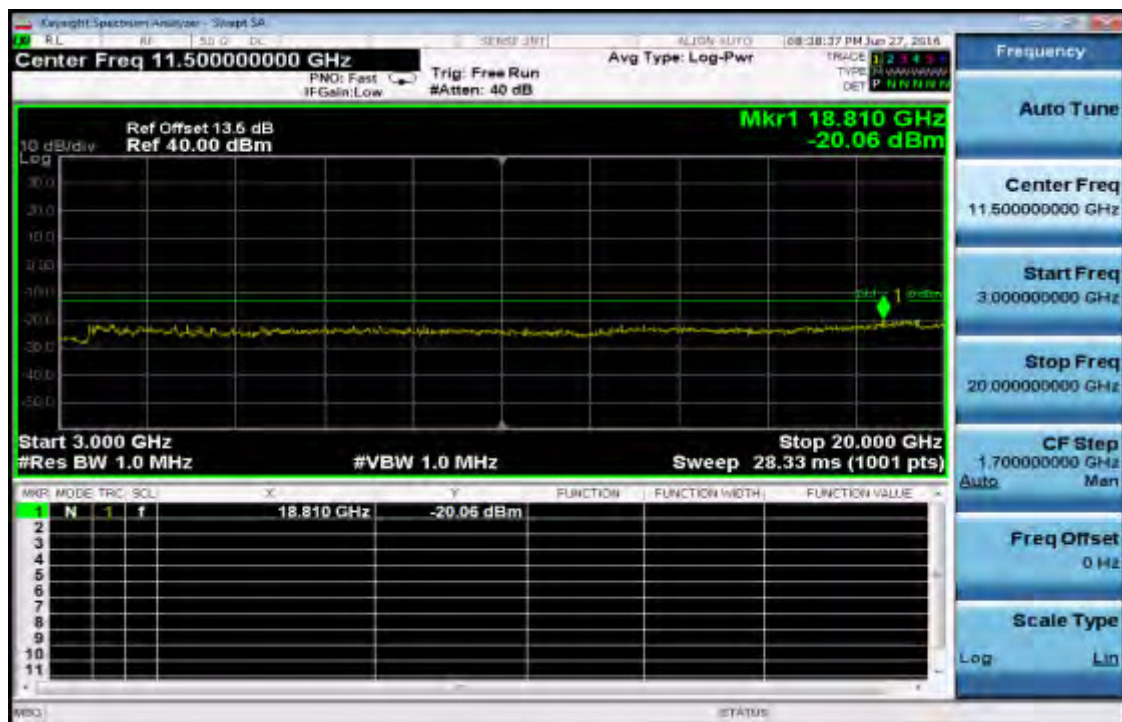
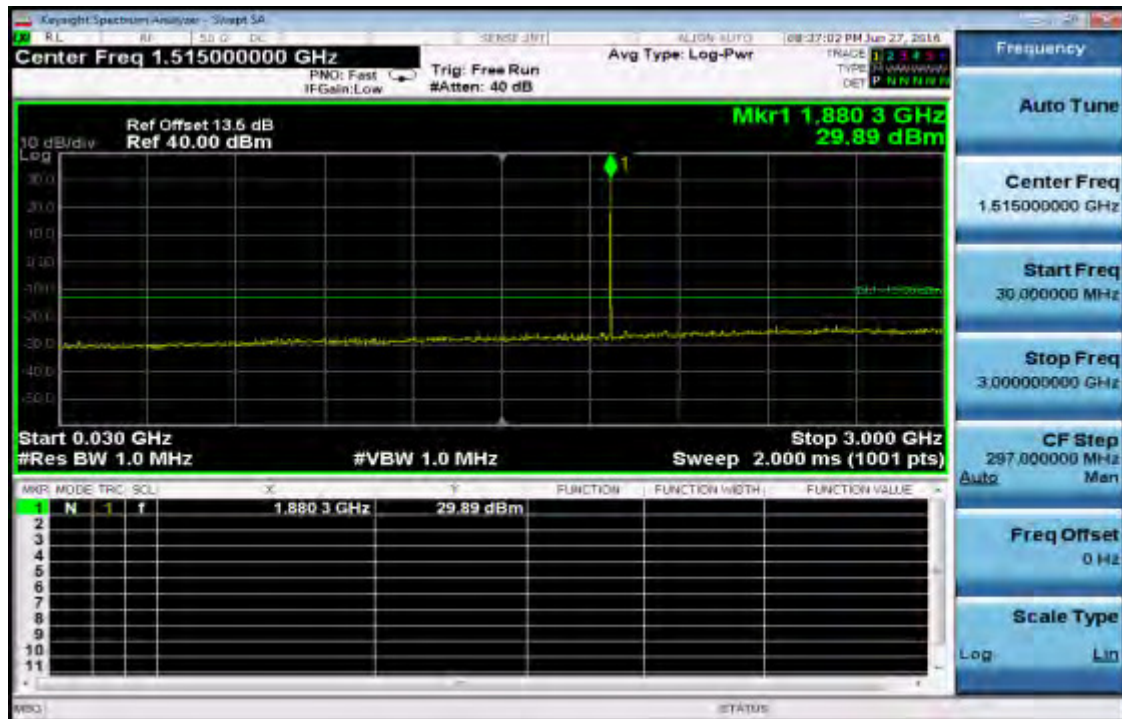
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Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



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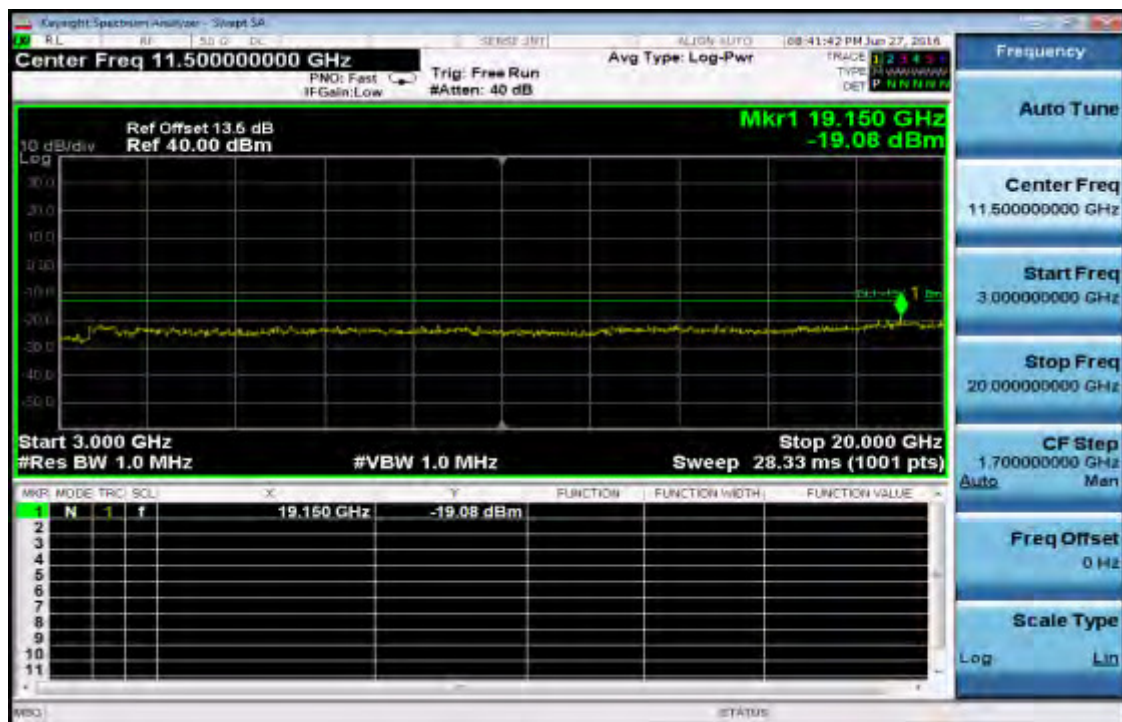
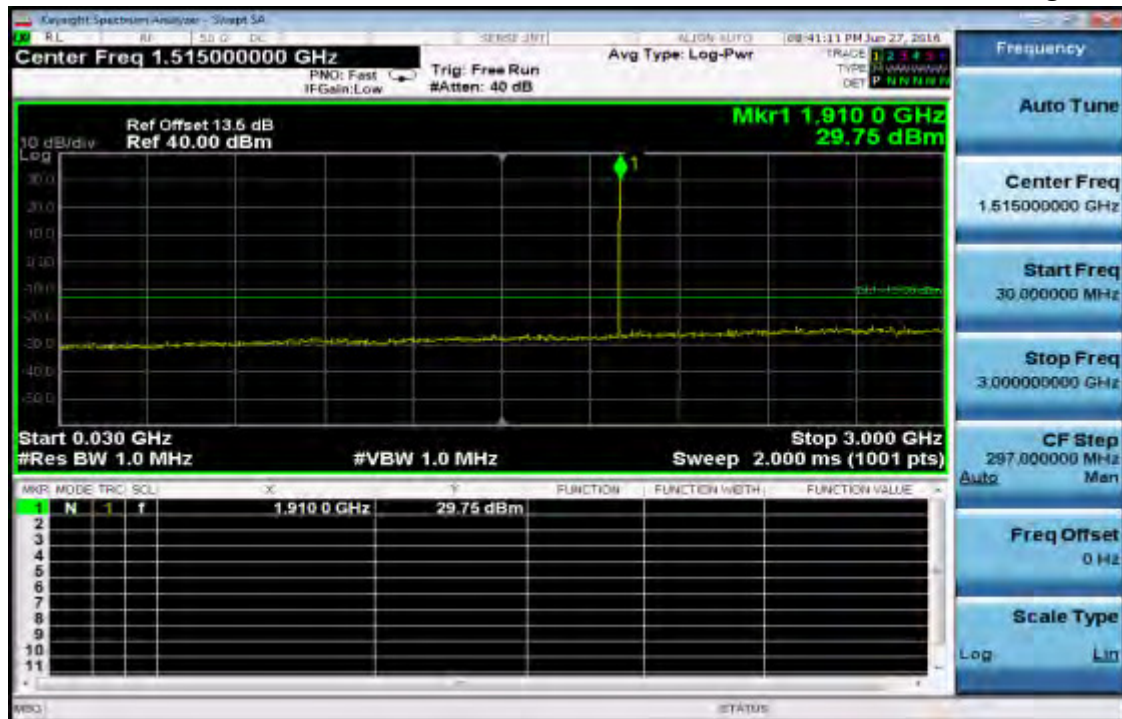
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Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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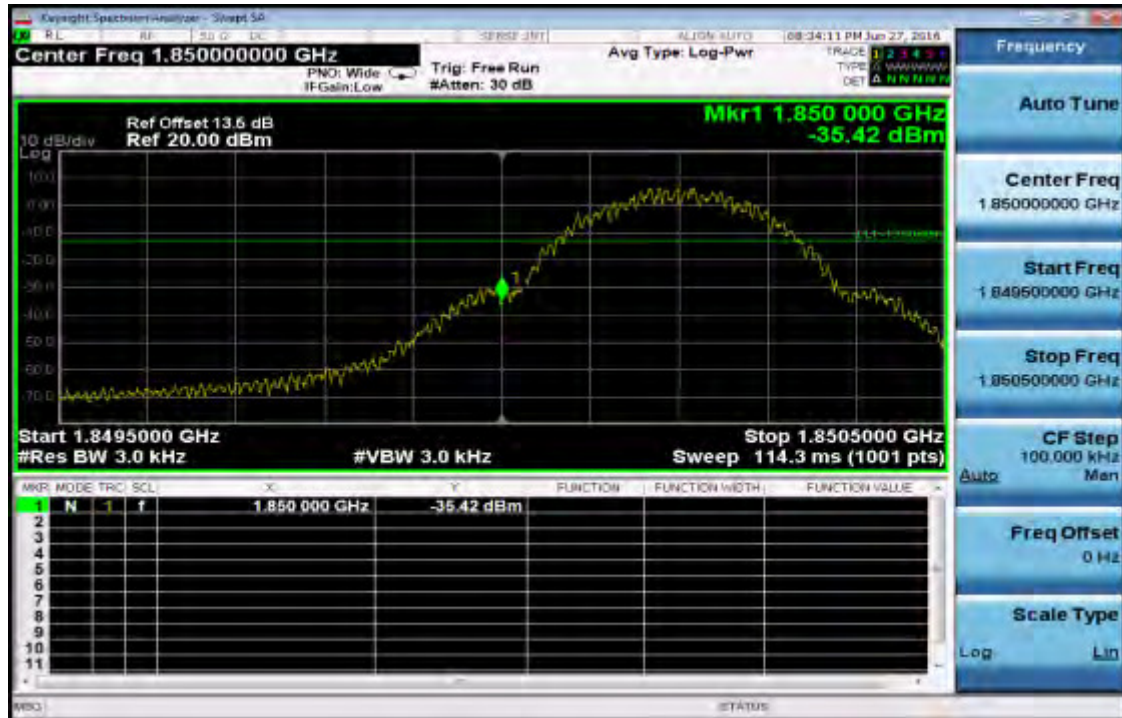
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Band edge emission at antenna terminals – GSM 1900 Channel Highest



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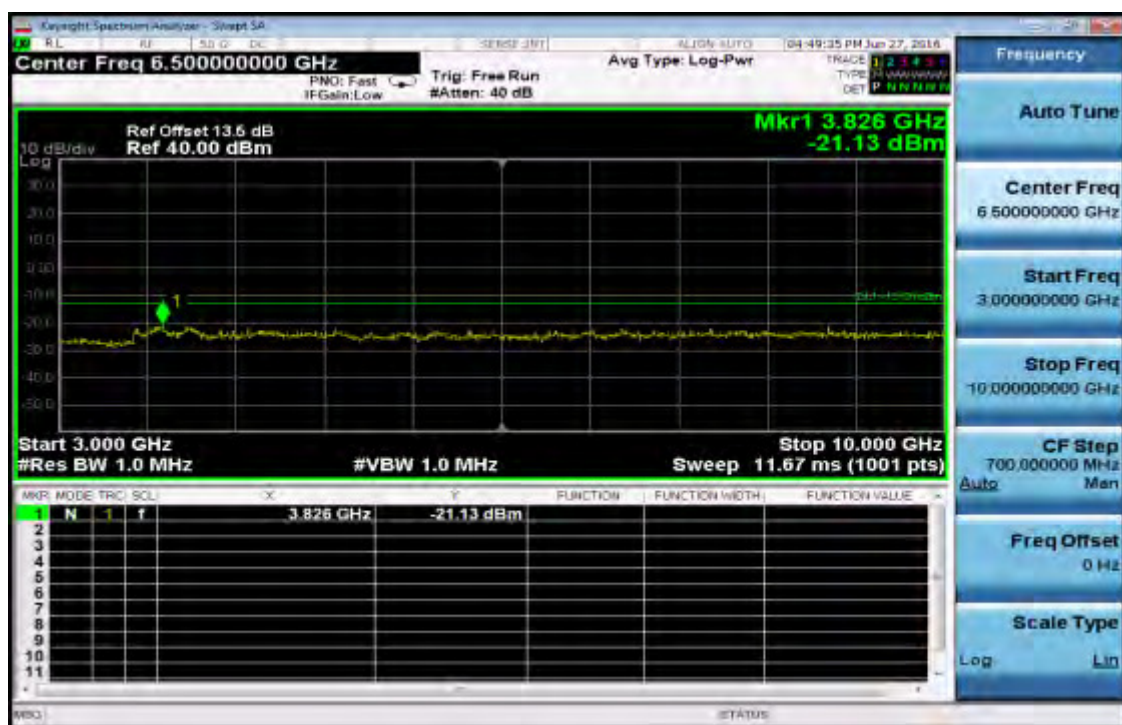
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Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



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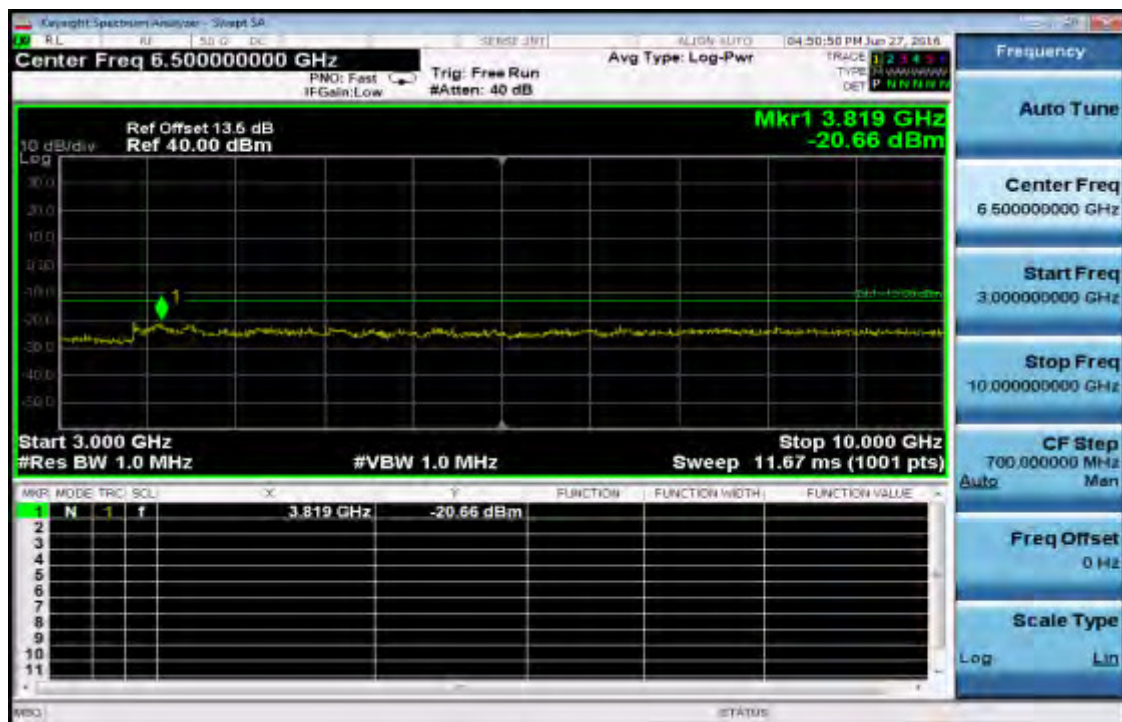
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Out of Band emission at antenna terminals – EDGE 850 Channel Mid



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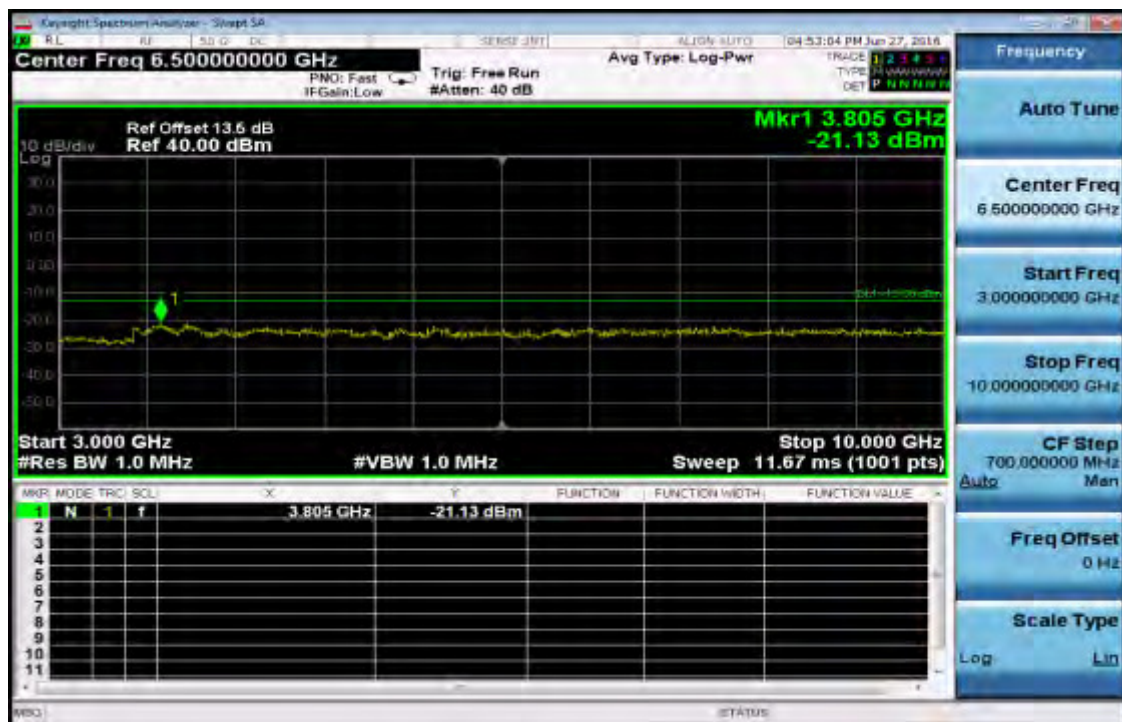
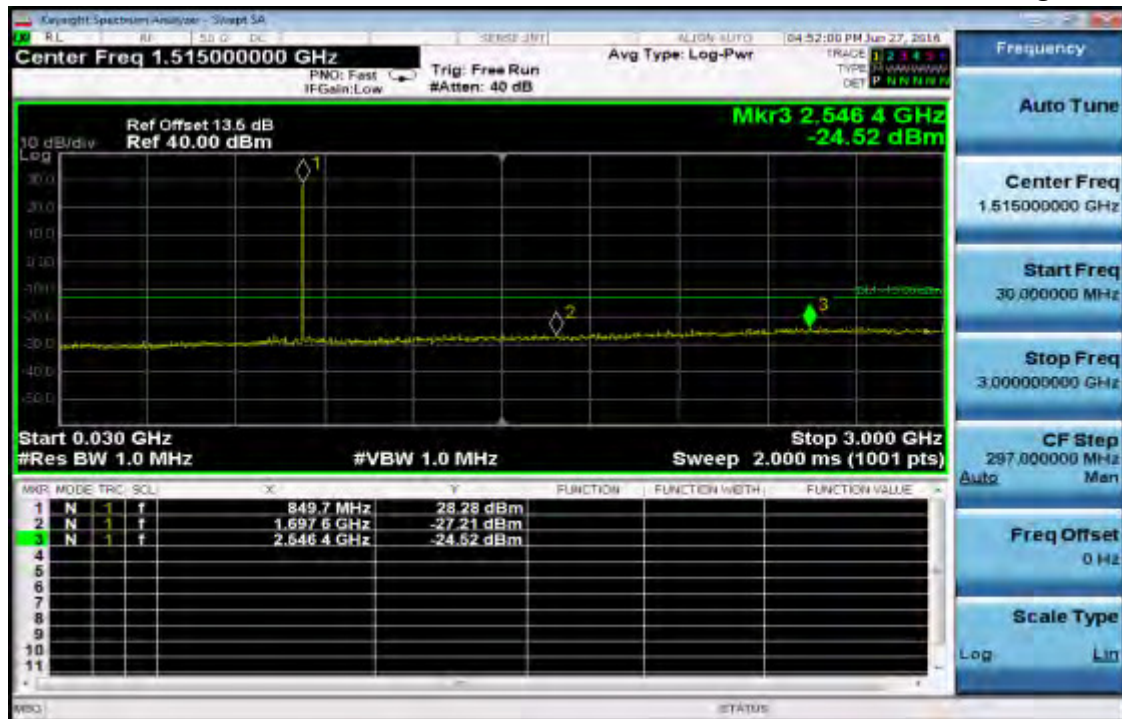
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Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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Band edge emission at antenna terminals – EDGE 850 Channel Lowest



Band edge emission at antenna terminals – EDGE 850 Channel Highest



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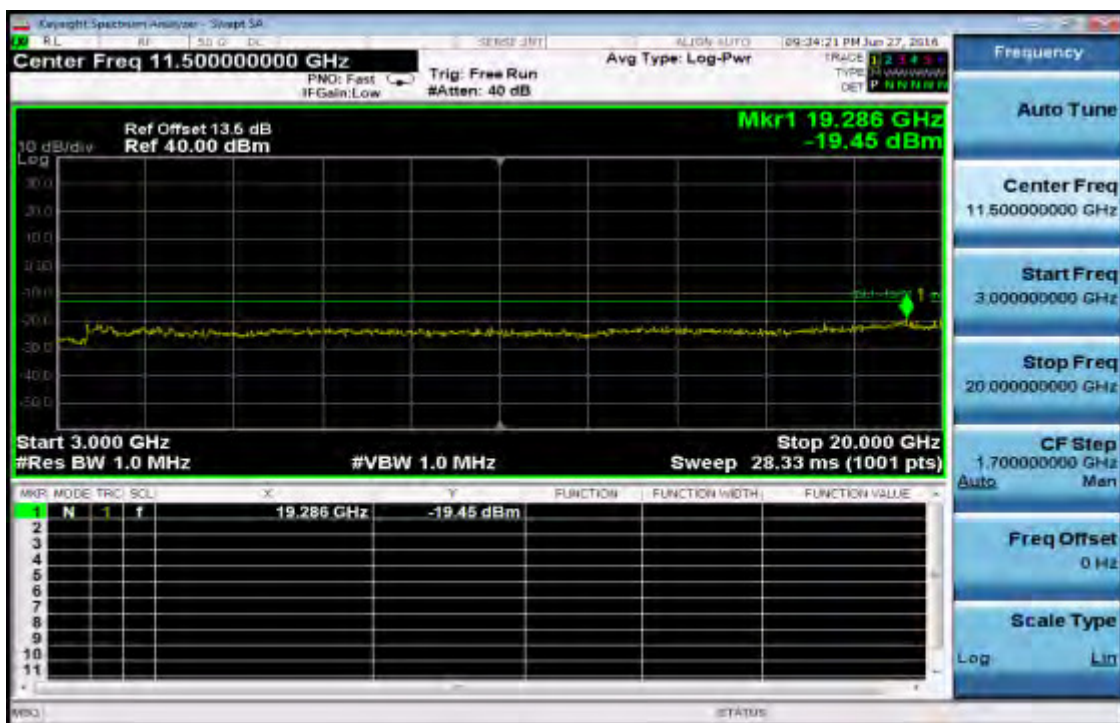
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Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest



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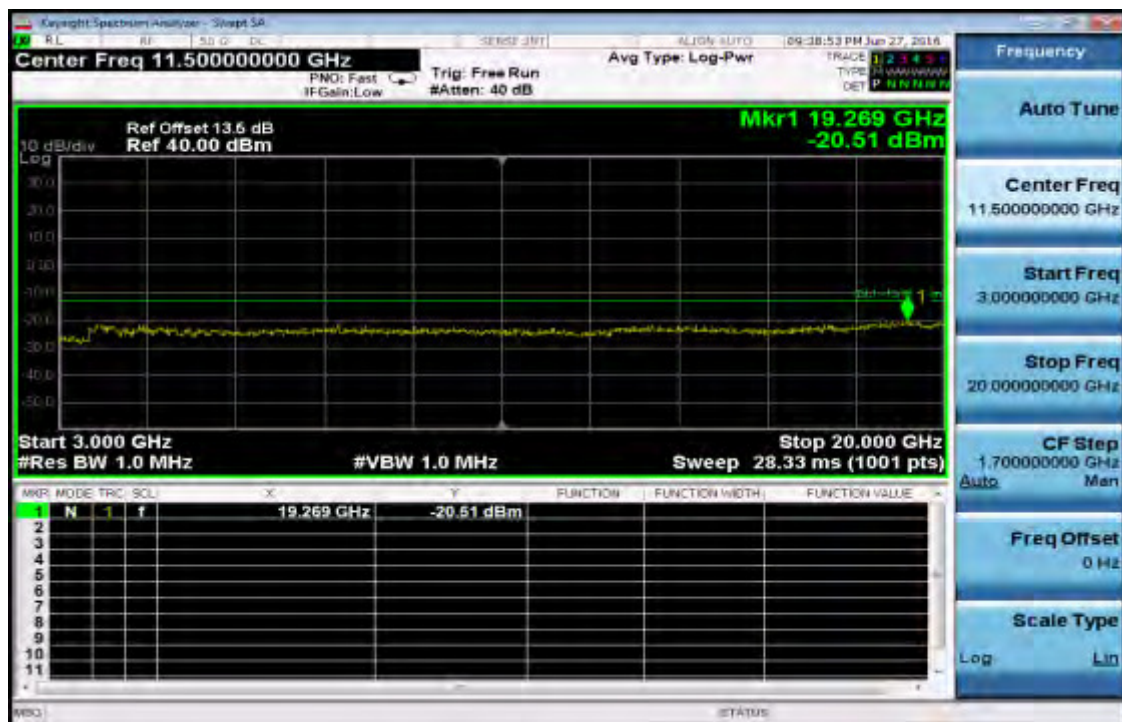
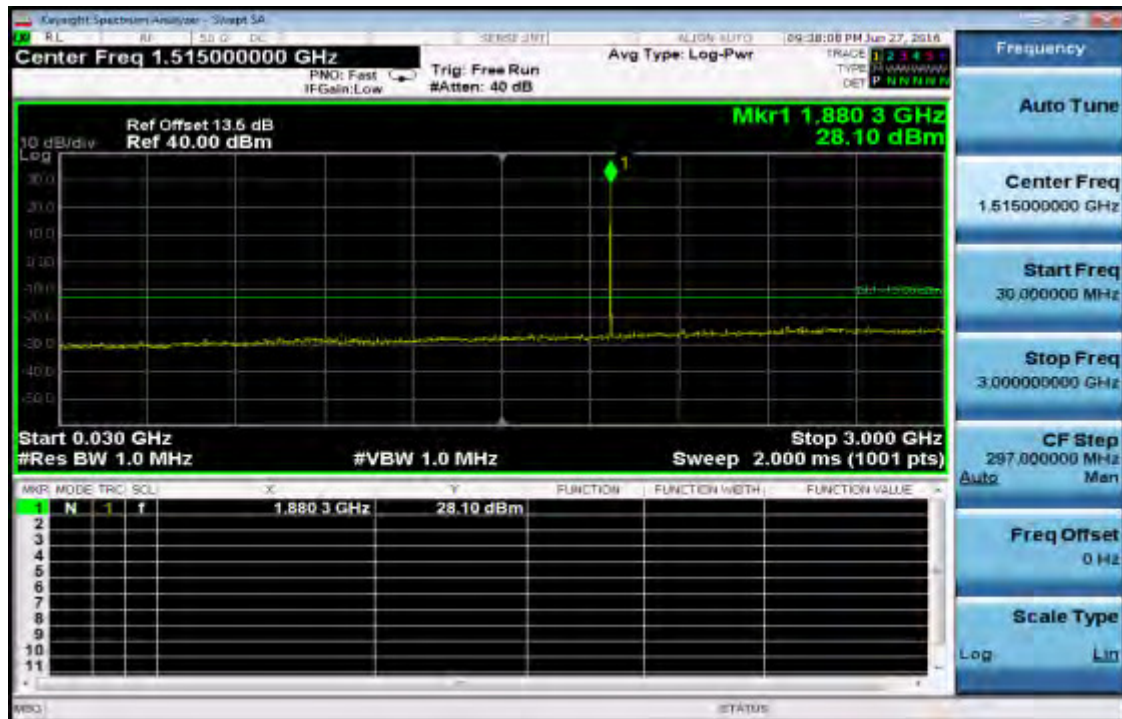
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Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



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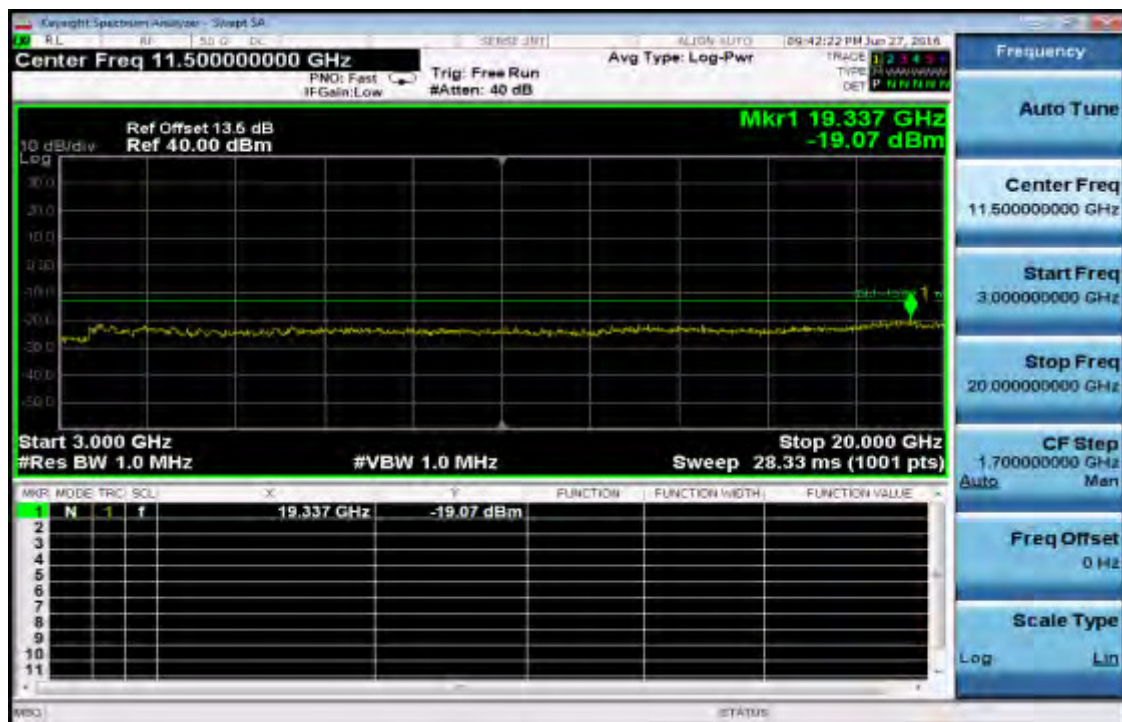
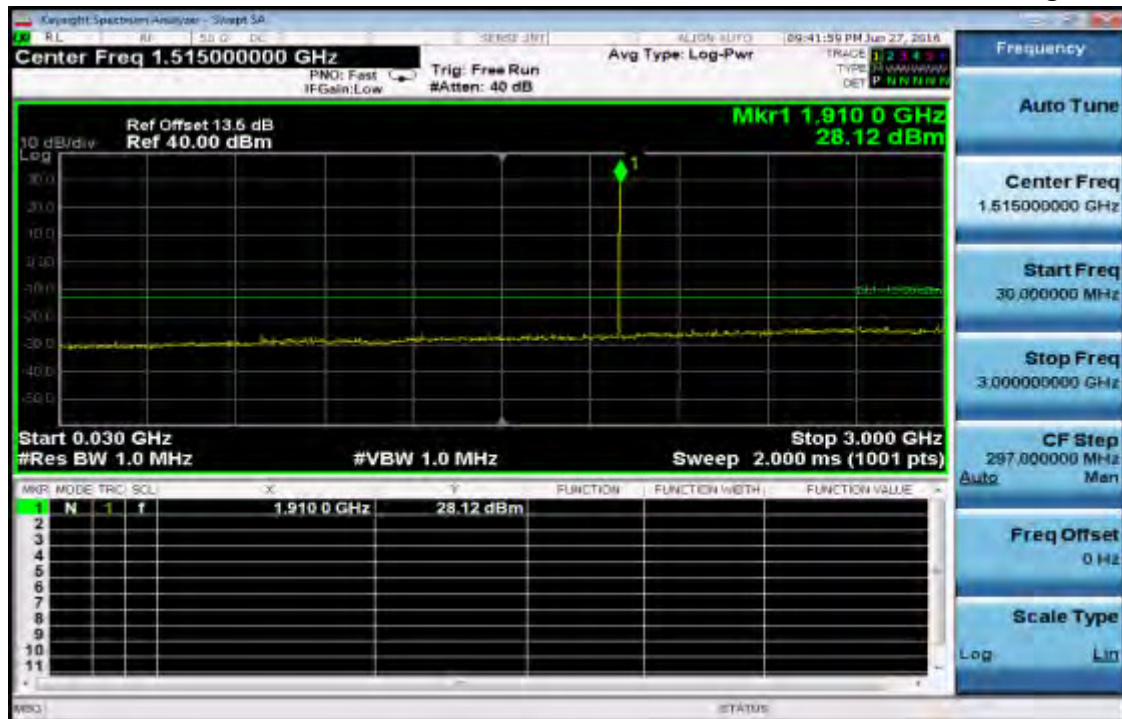
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Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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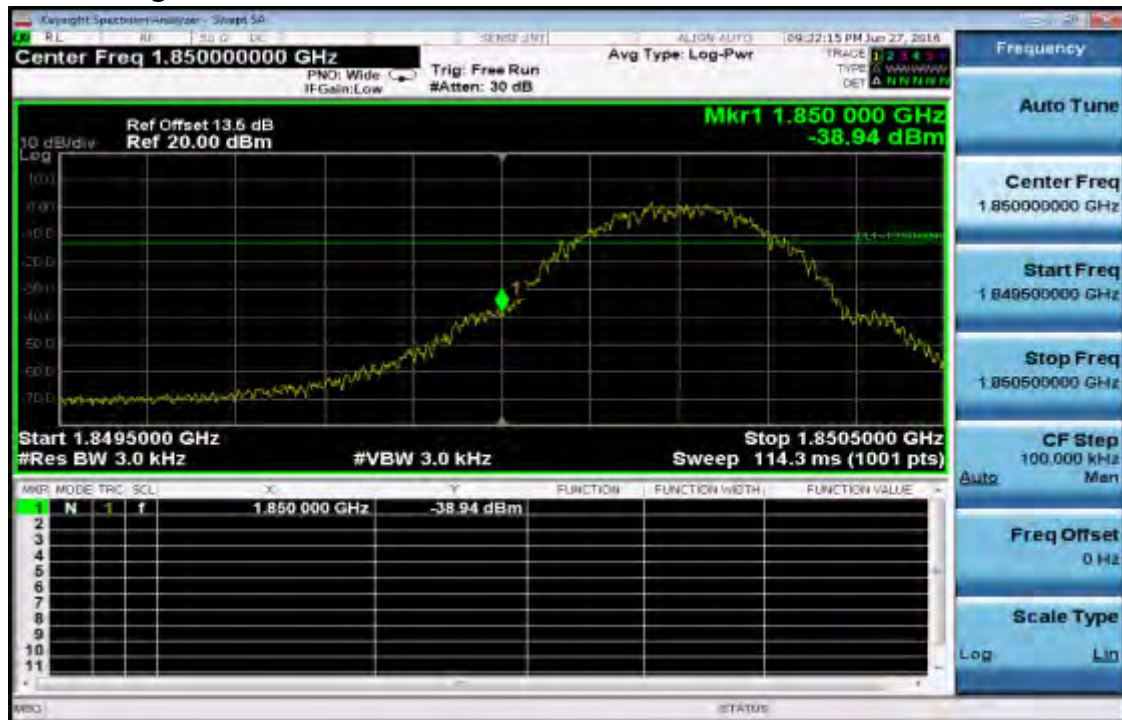
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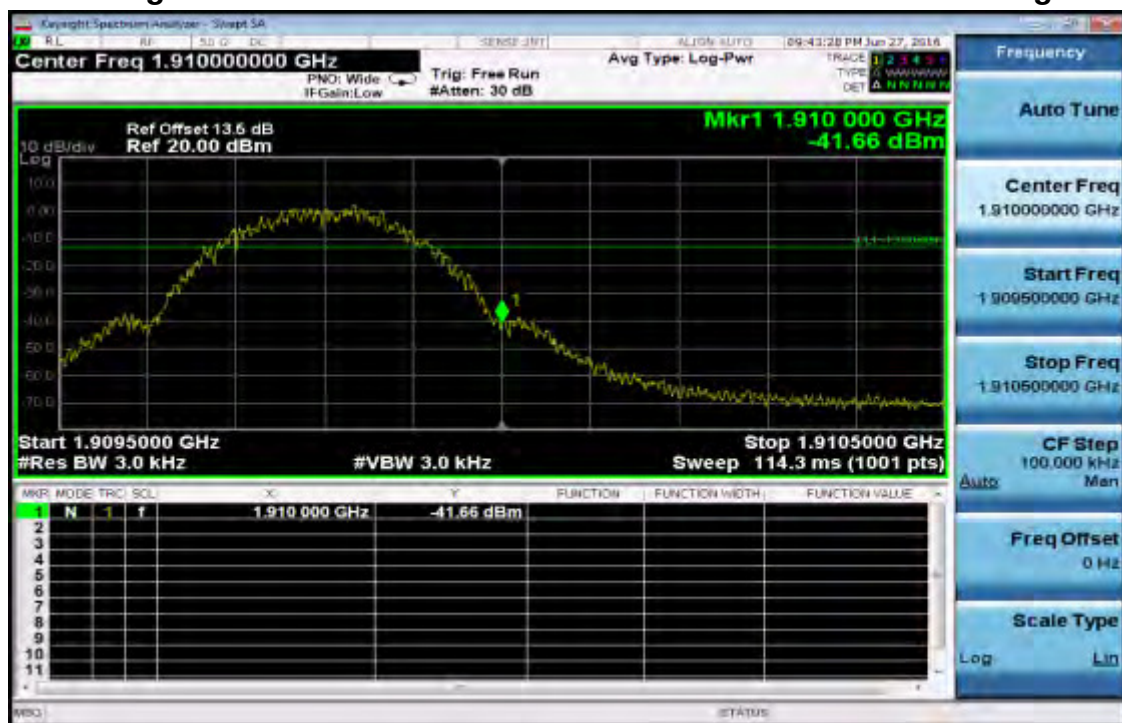
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Band edge emission at antenna terminals – EDGE 1900 Channel Lowest



Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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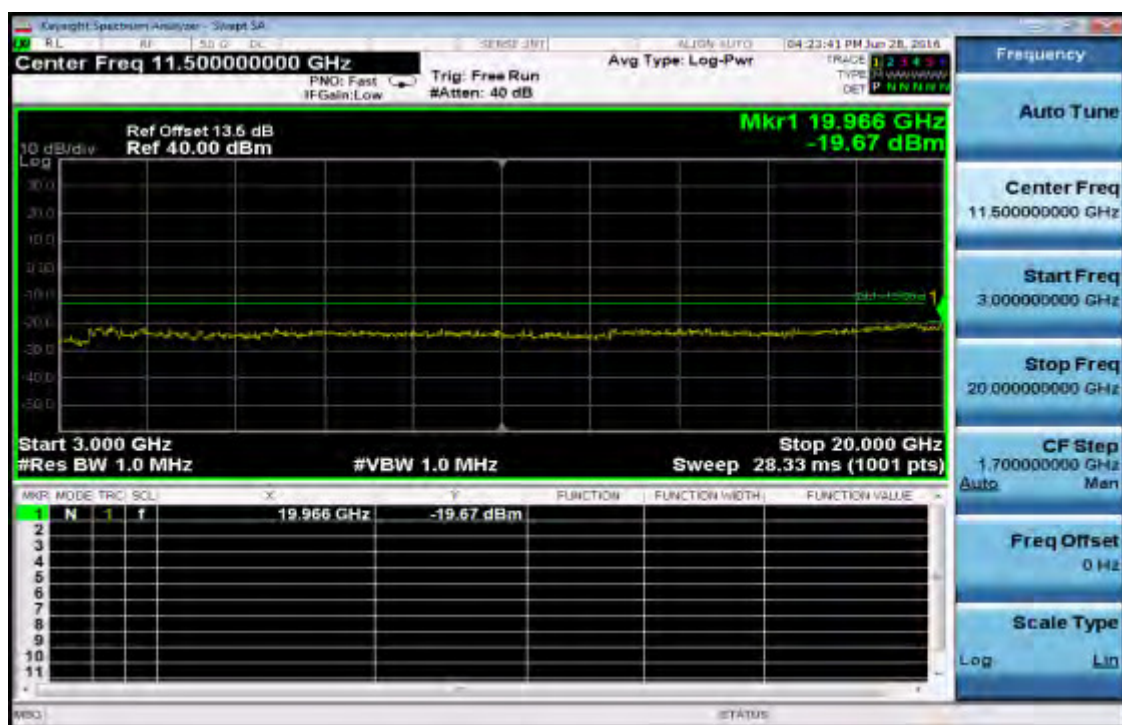
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Out of Band emission at antenna terminals – WCDMA II Channel Lowest



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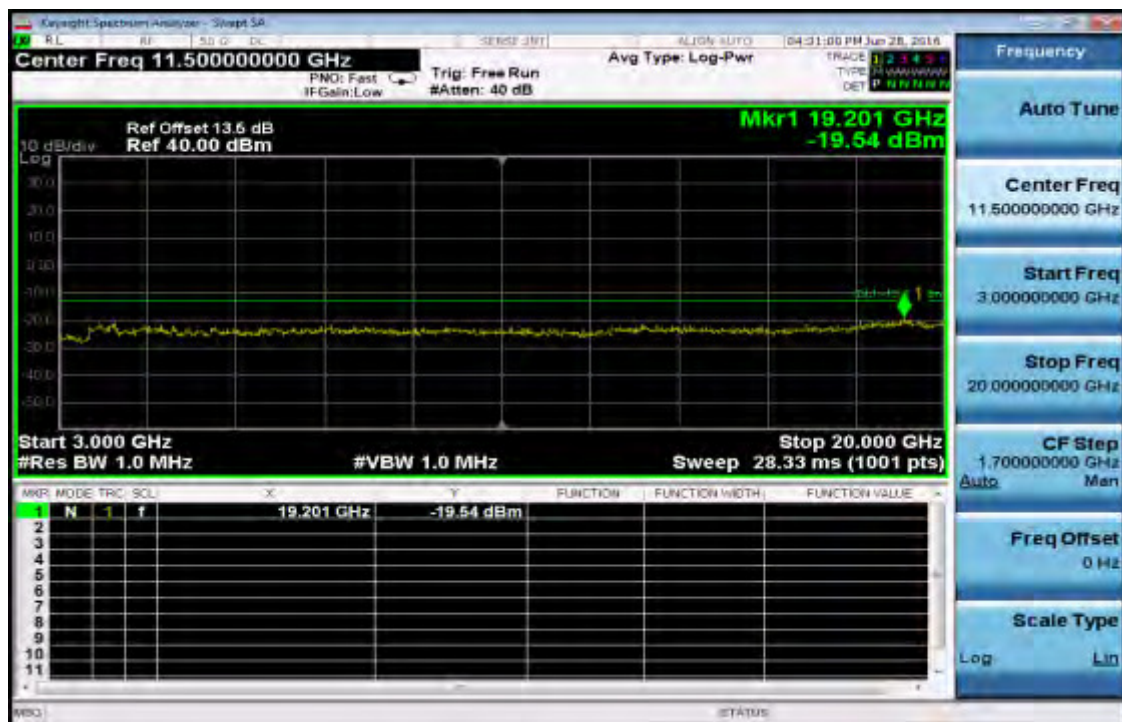
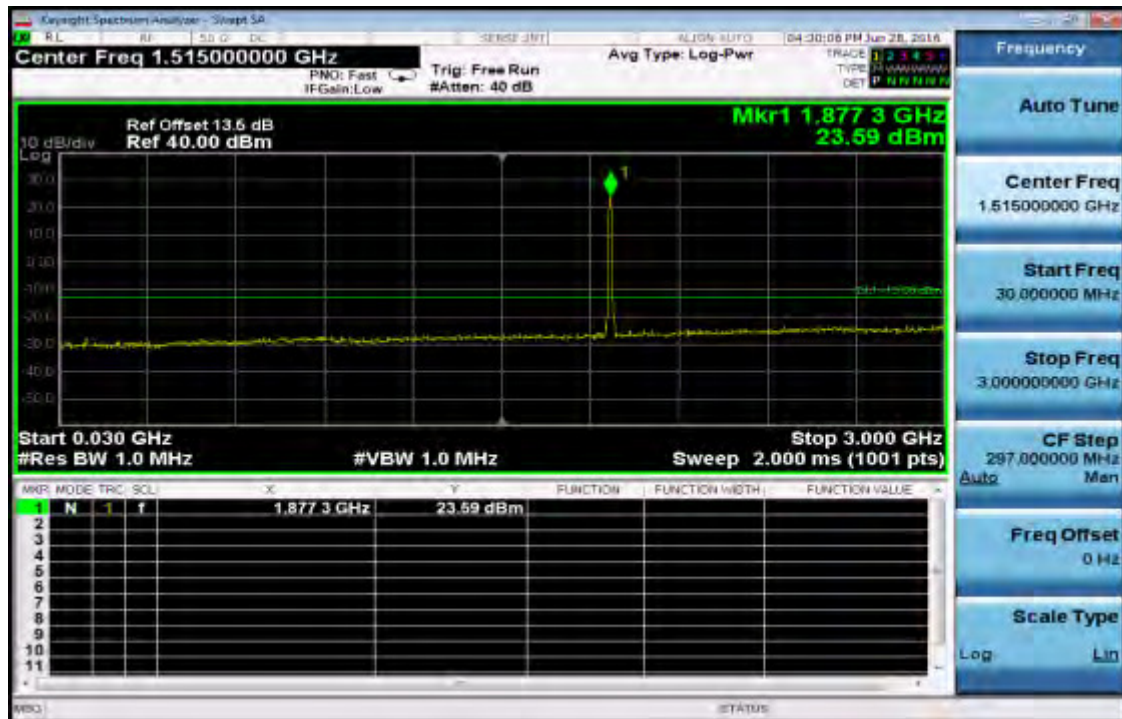
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Out of Band emission at antenna terminals – WCDMA II Channel Mid



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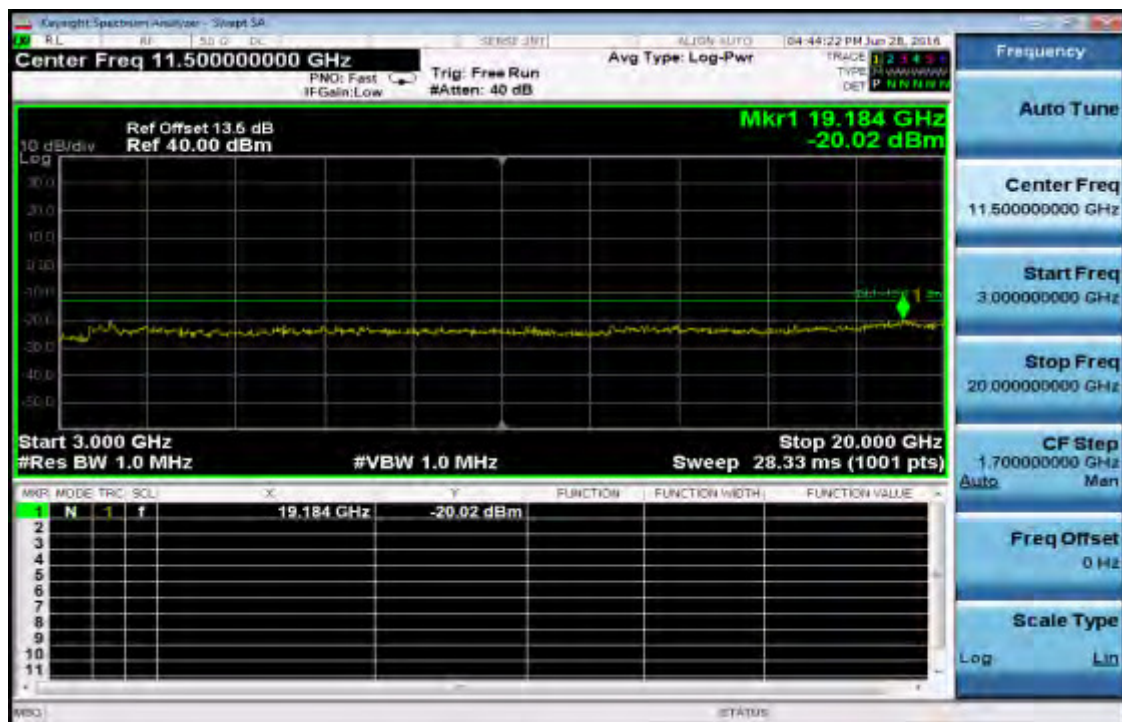
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Out of Band emission at antenna terminals – WCDMA II Channel Highest



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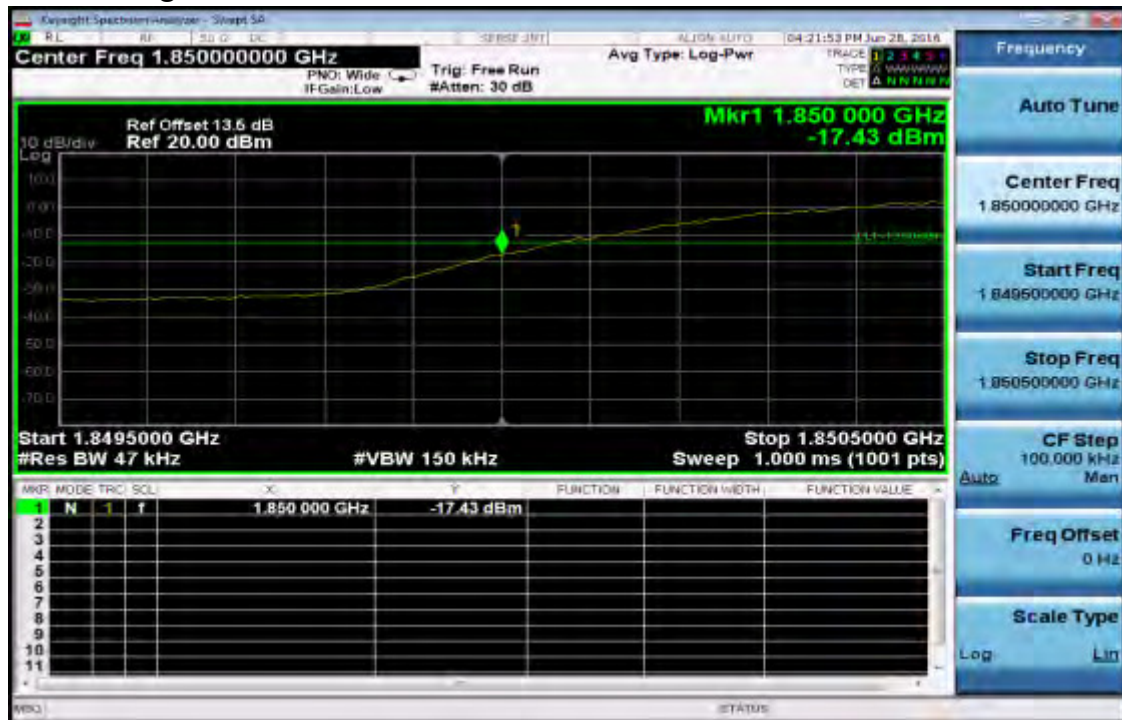
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Band edge emission at antenna terminals – WCDMA II Channel Lowest



Band edge emission at antenna terminals – WCDMA II Channel Highest



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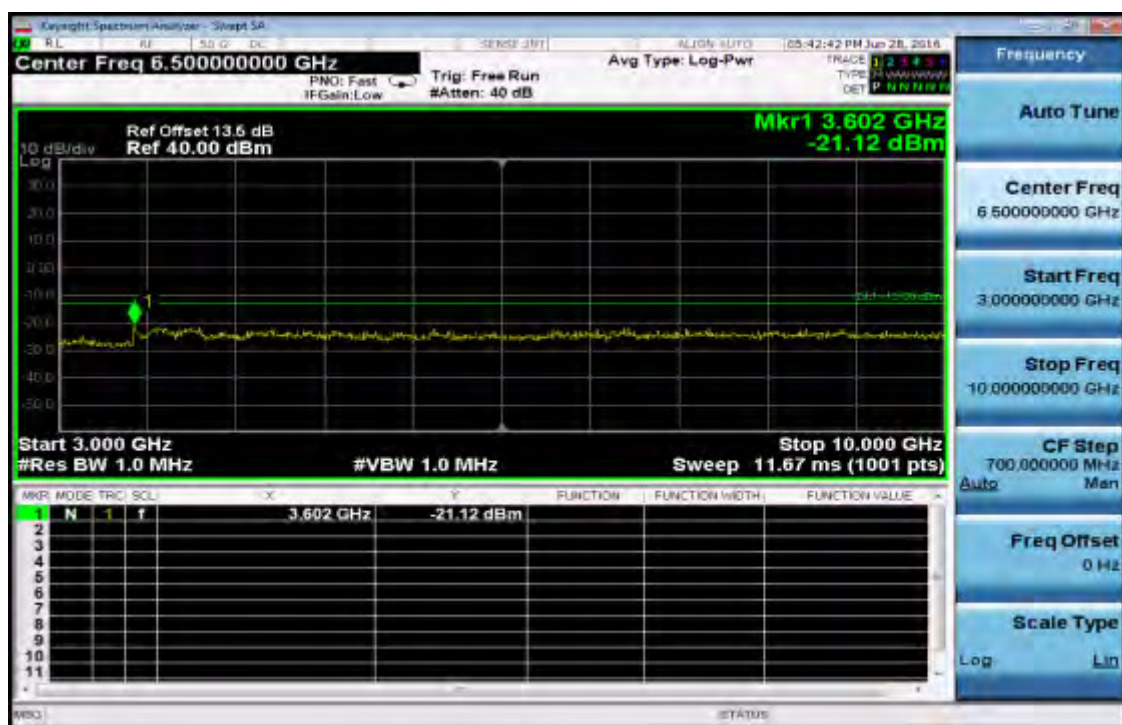
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Out of Band emission at antenna terminals – WCDMA V Channel Lowest



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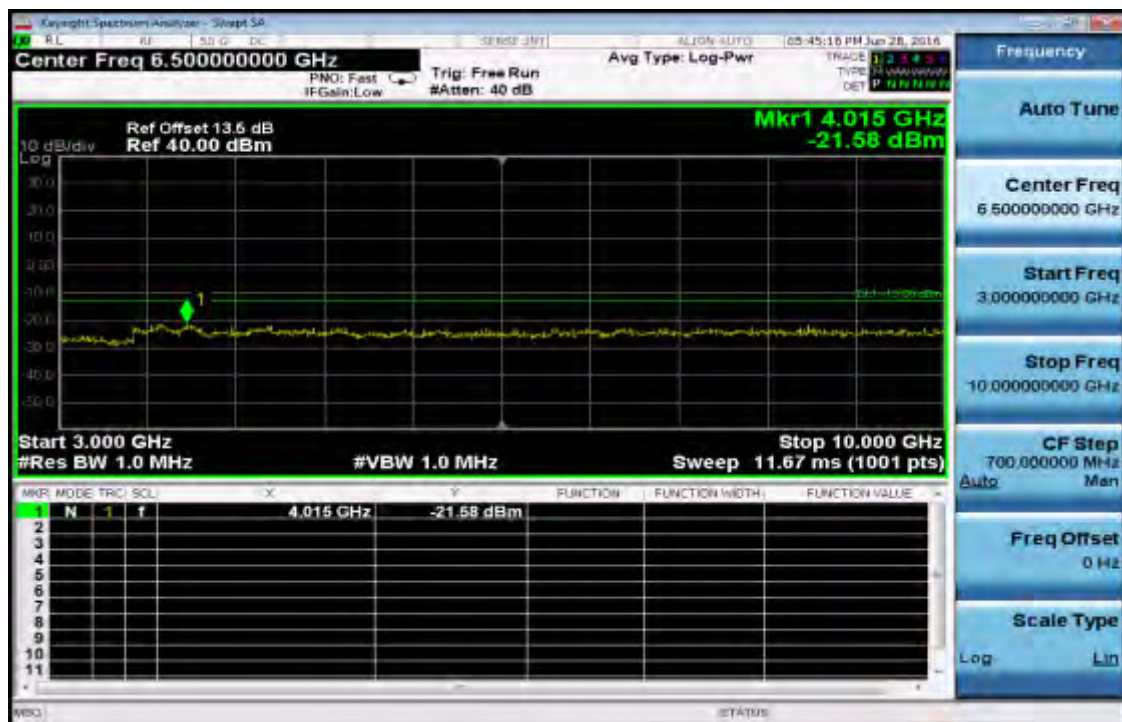
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Out of Band emission at antenna terminals – WCDMA V Channel Mid



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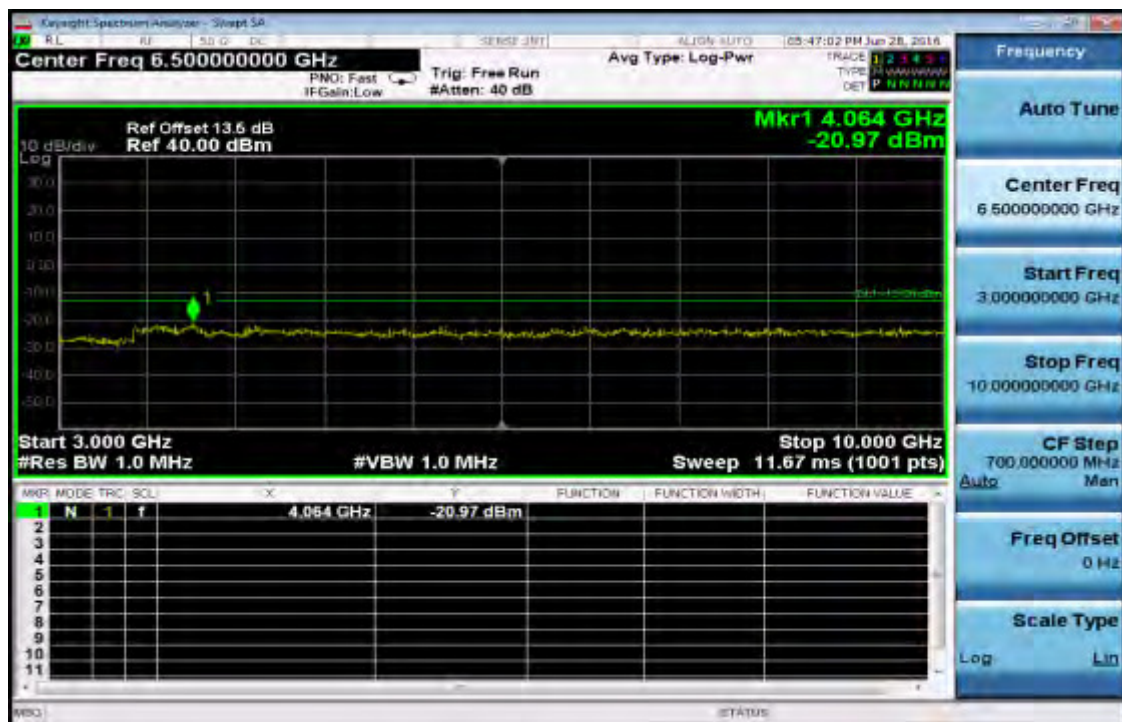
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Out of Band emission at antenna terminals – WCDMA V Channel Highest



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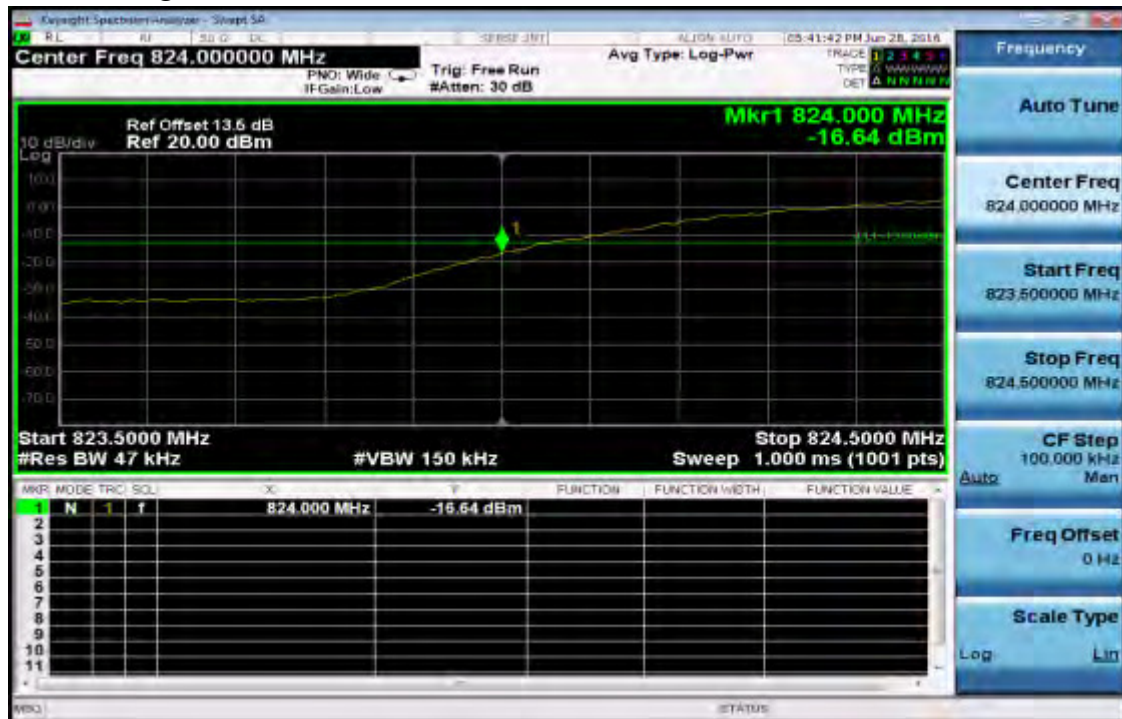
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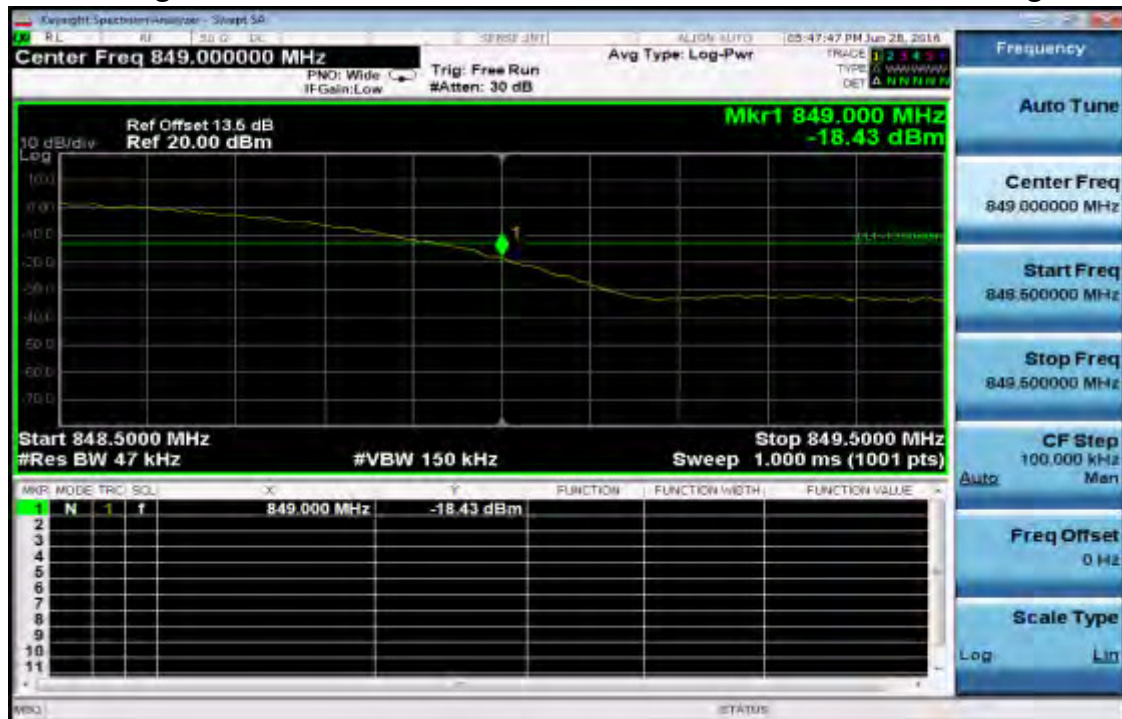
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Band edge emission at antenna terminals – WCDMA V Channel Lowest



Band edge emission at antenna terminals – WCDMA V Channel Highest



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